MAD DEC 2016

PROJECT ID: 5410-01-73

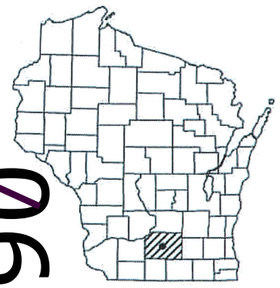
WITH: N/A

COUNTY: DANE

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
~~Section No.~~	~~4~~	~~Right of Way Plat~~
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
~~Section No.~~	~~8~~	~~Structure Plans~~
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS = 222



N

DESIGN DESIGNATION

A.A.D.T.	(2016)	= 50,200
A.A.D.T.	(2026)	= 54,600
D.H.V.	(2026)	= 5,570
D.D.		= 59/41
T.		= 5.2%
DESIGN SPEED		= 55 MPH
ESALS		= 6,037,100

CONVENTIONAL SYMBOLS

PLAN		PROFILE	
CORPORATE LIMITS		GRADE LINE	
PROPERTY LINE		ORIGINAL GROUND	
LOT LINE		MARSH OR ROCK PROFILE (To be noted as such)	ROCK
LIMITED HIGHWAY EASEMENT		SPECIAL DITCH	LABEL
EXISTING RIGHT OF WAY		GRADE ELEVATION	95.36
PROPOSED OR NEW R/W LINE		CULVERT (Profile View)	
SLOPE INTERCEPT		UTILITIES	
REFERENCE LINE		ELECTRIC	E
EXISTING CULVERT		FIBER OPTIC	FO
PROPOSED CULVERT (Box or Pipe)		GAS	G
COMBUSTIBLE FLUIDS	CAUTION	SANITARY SEWER	SAN
		STORM SEWER	SS
		TELEPHONE	T
MARSH AREA		WATER	W
		UTILITY PEDESTAL	
WOODED OR SHRUB AREA		POWER POLE AND TELEPHONE POLE	

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

MADISON - DEFOREST

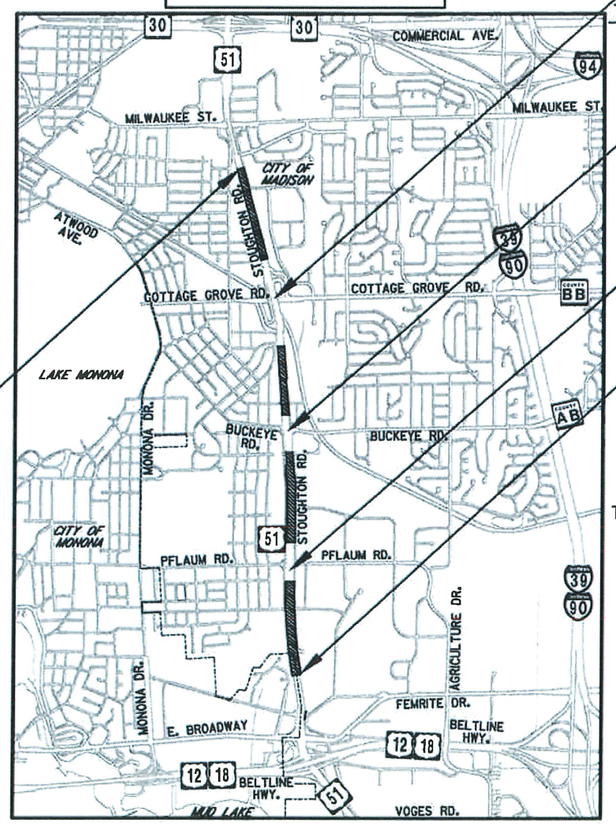
BROADWAY STREET TO MILWAUKEE STREET SOUTHBOUND

USH 51

DANE COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
5410-01-73	WISC 2016468	1

STATE PROJECT NUMBER
5410-01-73



EXCEPTION TO NET ℄ LENGTH
STA. 724+51 - STA. 754+68

T-8-N

EXCEPTION TO NET ℄ LENGTH
STA. 698+70 - STA. 706+60

EXCEPTION TO NET ℄ LENGTH
STA. 658+56 - STA. 666+10

BEGIN PROJECT
STA. 627+82
Y = 475,112.36
X = 841,332.96

T-7-N

END PROJECT
STA. 774+83
Y = 489,652.75
X = 839,712.72

R-10-E

LAYOUT
SCALE 0 1 MILE

TOTAL NET LENGTH OF CENTERLINE = 1.920 MI.

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, DANE COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ORIGINAL PLANS PREPARED BY

MSA PROFESSIONAL SERVICES
TRANSPORTATION • MUNICIPAL • REMEDIATION DEVELOPMENT • ENVIRONMENTAL
2901 International Lane, Suite 300 Madison, WI 53704
608-242-7779 1-800-446-0679 Fax: 608-242-5664

WISCONSIN
JASON T. DIPIAZZA
E-38341
MADISON
WI
PROFESSIONAL ENGINEER

DATE: 6-30-16 (Professional Engineer)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	N/A
Designer	MSA PROFESSIONAL SERVICES
Project Manager	DAVID PILON
Regional Examiner	
Regional Supervisor	KARLA KNORR

APPROVED FOR THE DEPARTMENT

DATE: 07/01/2016 (Signature)

E

GENERAL NOTES

HMA PAVEMENT WEIGHT CALCULATIONS ARE BASED ON 112 lb/sy/in.

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

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.

NO TREES AND SHRUBS ARE TO BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

SECTIONS AS SHOWN ON THE CROSS-SECTIONS INCLUDE THE THICKNESS OF TOPSOIL. TOPSOIL SHALL BE AT A 4-INCH MINIMUM DEPTH.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, ARE TO BE SEEDED AND COVERED WITH EROSION MAT AS SHOWN IN THE PLANS AND AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR WILL BE RESPONSIBLE FOR RESTORING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY HIS OPERATIONS OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS, INCLUDING GRADING, TOPSOILING, SEEDING AND INSTALLING EROSION MAT.

ESTIMATED QUANTITIES OF SALVAGED TOPSOIL, SEEDING, MULCHING AND FERTILIZER HAVE BEEN COMPUTED BY A DIRECT MEASUREMENT ON THE CROSS-SECTIONS.

THE EROSION CONTROL ITEMS SHOWN ON THE PLANS, ARE AT SUGGESTED LOCATIONS. THE ENGINEER SHALL DETERMINE THE EXACT LOCATIONS OF EROSION CONTROL ITEMS. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY. THE CONTRACTOR WILL REMOVE ITEMS AT THE ENGINEER'S DIRECTION.

NUMBER, LOCATION, AND SPACING OF TRAFFIC CONTROL SIGNS AND DEVICES, AS SHOWN IN THE PLANS, SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

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

INDEX OF TYPICAL SECTIONS & DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
CONCRETE BASE PATCHING PLAN
EROSION CONTROL
PERMANENT SIGNING AND PAVEMENT MARKINGS
TRAFFIC CONTROL
DETOUR ROUTE

DIGGERS HOTLINE

Dial 811 or (800) 242-8511

www.DiggersHotline.com

MADISON GAS & ELECTRIC COMPANY EMERGENCY CONTACT NUMBERS:
ELECTRIC 24-HOUR EMERGENCY SERVICE: (608) 252-7111
GAS 24-HOUR EMERGENCY SERVICE: (608) 252-1111

DNR LIAISON

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
ATTN: ERIC HEGGELUND
3911 FISH HATCHERY ROAD
FITCHBURG, WI 53711-5397
PHONE: (608) 275-3301
EMAIL: Eric.Heggelund@Wisconsin.gov

DESIGN CONTACTS

MSA PROFESSIONAL SERVICES
ATTN: JASON DIPIAZZA
2901 INTERNATIONAL LANE, SUITE 300
MADISON, WI 53704-3133
PHONE: (608) 242-7779
E-MAIL: Jdipiazza@msa-ps.com

WISCONSIN DEPARTMENT OF TRANSPORTATION
SOUTHWEST REGION
ATTN: DAVID PILON
2101 WRIGHT STREET
MADISON, WI 53704
PHONE: (608) 245-2622
E-MAIL: David.Pilon@dot.wi.gov

UTILITIES

COMMUNICATIONS
AT&T WISCONSIN
ATTN: CAROL ANASON
316 WEST WASHINGTON AVENUE
MADISON, WI 53701
PHONE: (608) 252-2385
MOBILE: (920) 475-2799
E-MAIL: ca2624@att.com

COMMUNICATIONS AND STREET LIGHTING
CITY OF MADISON TRAFFIC ENGINEERING
ATTN: MIKE CHRISTOPH
1120 SAYLE STREET
MADISON, WI 53715
PHONE: (608) 266-9031
MOBILE: (608) 395-1975
E-MAIL: mchristoph@cityofmadison.com

COMMUNICATIONS
WISCONSIN INDEPENDANT NETWORK, LLC
ATTN: JIM BIRKENHEIER
800 WISCONSIN AVENUE, SUITE 219
EAU CLAIRE, WI 53086
MOBILE: (715) 838-4007
E-MAIL: jbirkenheier@wins.net

ELECTRIC
MADISON GAS & ELECTRIC COMPANY
ATTN: RICH PARKER
133 SOUTH BLAIR STREET
MADISON, WI 53788
PHONE: (608) 252-7379
MOBILE: (608) 444-9619
E-MAIL: rparker@mge.com

GAS/PETROLEUM
ANR PIPELINE (TRANSCANADA)
ATTN: DICK MELLOM
6827 CONSOLIDATED SCHOOL ROAD
JANESVILLE, WI 53545
PHONE: (608) 373-6923
MOBILE: (331) 256-0815
E-MAIL: dick_mellom@transcanada.com

STORM SEWER & SANITARY SEWER
CITY OF MADISON ENGINEERING
ATTN: STEVE SONNTAG
210 MARTIN LUTHER KING JR. BOULEVARD, ROOM 115
MADISON, WI 53703
PHONE: (608) 267-1997
E-MAIL: ssonntag@cityofmadison.com

COMMUNICATIONS
CHARTER COMMUNICATIONS
ATTN: JOHN MARSCHKE
2701 DANIELS STREET
MADISON, WI 53718
PHONE: (608) 288-6848
MOBILE: (608) 225-2479
E-MAIL: jon.marschke@charter.com

COMMUNICATIONS
McLEOD USA TELECOMMUNICATIONS SERVICES, INC.
(WINDSTREAM)
ATTN: AARON GRODI
1858 WRIGHT STREET
MADISON, WI 53704
PHONE: (608) 819-5014
E-MAIL: aaron.grodi@windstream.com

ELECTRIC
ATC MANAGEMENT, INC.
ATTN: DOUG VOSBERG
5303 FEN OAK DRIVE
MADISON, WI 53718
PHONE: (608) 877-7650
E-MAIL: dvosberg@atcllc.com

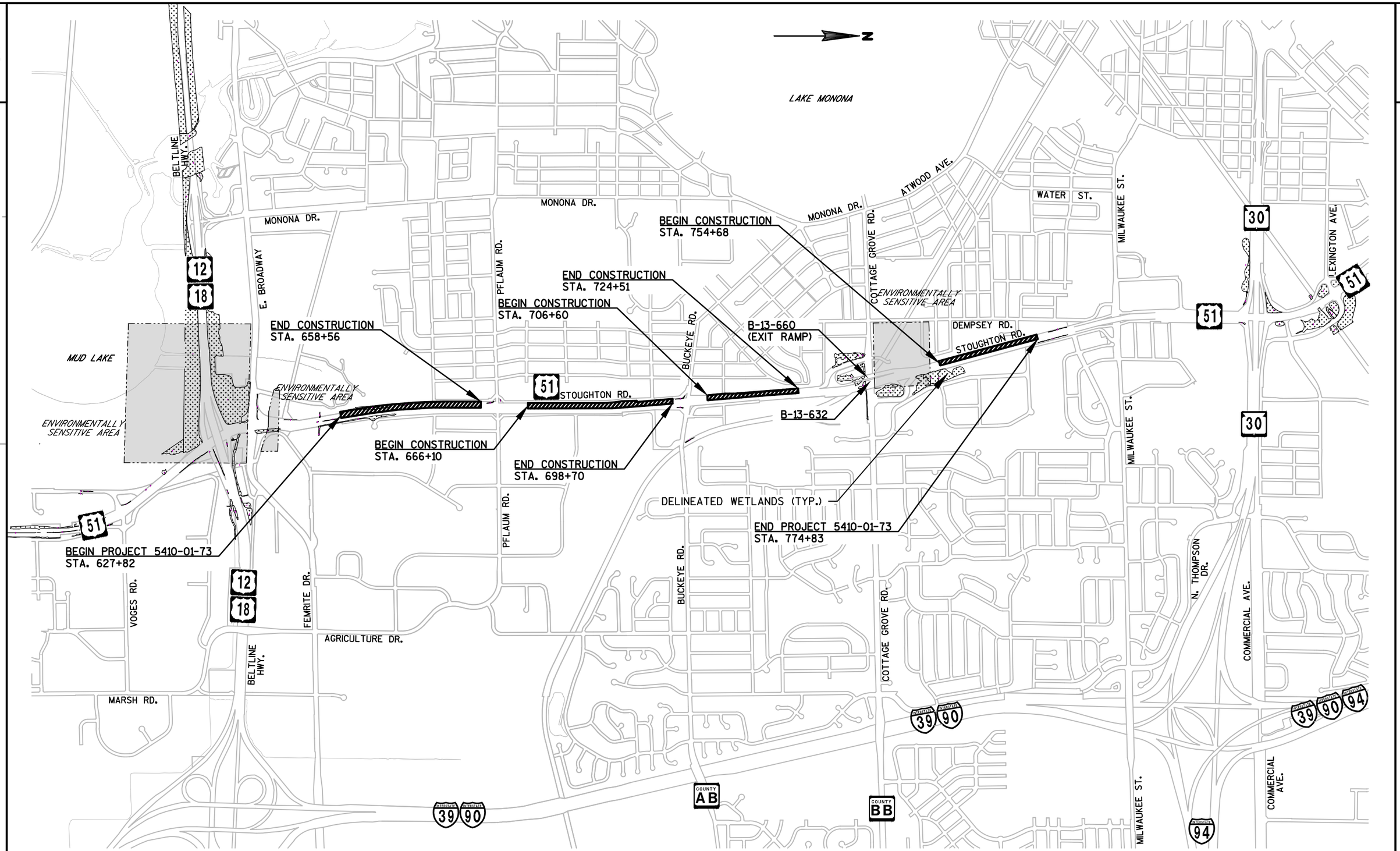
GAS/PETROLEUM
MADISON GAS & ELECTRIC COMPANY
ATTN: JOHN WICHERN
133 SOUTH BLAIR STREET
MADISON, WI 53788
PHONE: (608) 252-1563
MOBILE: (608) 220-7242
E-MAIL: jwichern@mge.com

SANITARY SEWER
MADISON METROPOLITAN SEWERAGE DISTRICT
ATTN: RAY SCHNEIDER
1610 MOORLAND ROAD
MADISON, WI 53713
PHONE: (608) 222-1201 EXT. 259
MOBILE: (608) 347-3628
E-MAIL: rays@madsewer.org

WATER
MADISON WATER UTILITY
ATTN: TOM ROSEMEYER
110 SOUTH PATERSON STREET
MADISON, WI 53713
PHONE: (608) 266-5985
MOBILE: (608) 206-3643
E-MAIL: trosemeyer@madisonwater.org

STANDARD ABBREVIATIONS

AC	ACRES
AEW	APRON ENDWALL
AH	AHEAD
ALUM.	ALUMINUM
A.P.	ACCESS POINT
ASPH	ASPHALT
AVE	AVENUE
BAD	BASE AGGREGATE DENSE
BK	BACK
BLK	BLOCK
BOC	BACK OF CURB
BOW	BACK OF SIDEWALK
BM	BENCHMARK
CABC	CRUSHED AGGREGATE BASE COURSE
CL or ℄	CENTERLINE
Δ	CENTRAL ANGLE or DELTA
CONC	CONCRETE
CP	CONTROL POINT
CSM	CERTIFIED SURVEY MAP
CTH	COUNTY TRUNK HIGHWAY
D	DEGREE OF CURVE
E	EAST
EB	EASTBOUND
EBS	EXCAVATION BELOW SUBGRADE
EOP	EDGE OF PAVEMENT
ET AL	AND OTHERS
EW	ENDWALL
EXIST	EXISTING
FT	FOOT
FT2	SQUARE FEET
GN	GRID NORTH
GV	GAS VALVE
HERCP	HORIZONTAL ELLIPTICAL REINFORCED CONCRETE PIPE
HYD	HYDRANT
IN	INCH
INL	INLET
INV	INVERT
IP	IRON PIPE
L	LENGTH
L	LENGTH OF CURVE
LC	LONG CHORD
LCB	LONG CHORD BEARING
LF	LINEAR FEET
LT	LEFT
MH	MANHOLE
MI	MILE
MON	MONUMENT
N	NORTH
NB	NORTHBOUND
N.C.	NORMAL CROWN
NO	NUMBER
PB	PULLBOX
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PL	PROPERTY LINE
PLE	PERMANENT LIMITED EASEMENT
POB	POINT OF BEGINNING
PT	POINT OF TANGENCY
R	RADIUS
R	RANGE
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
REQ'D	REQUIRED
RL or R/L	REFERENCE LINE
RP	RADIUS POINT
RT	RIGHT
R/W	RIGHT-OF-WAY
S	SOUTH
SAN	SANITARY SEWER
SB	SOUTHBOUND
S.E.	SUPERELEVATION
SEC	SECTION
SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
SSPRCHE	STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
SQ	SQUARE
ST	STREET
STA	STATION
STH	STATE TRUNK HIGHWAY
STM	STORM SEWER
STR	STRUCTURE
T	TANGENT
TAN	TANGENT
TEMP	TEMPORARY
TLE	TEMPORARY LIMITED EASEMENT
T or TN	TOWN
TYP.	TYPICAL
WM	WATERMAIN
WV	WATER VALVE
W	WEST
WB	WESTBOUND
X	EAST GRID COORDINATE
Y	NORTH GRID COORDINATE

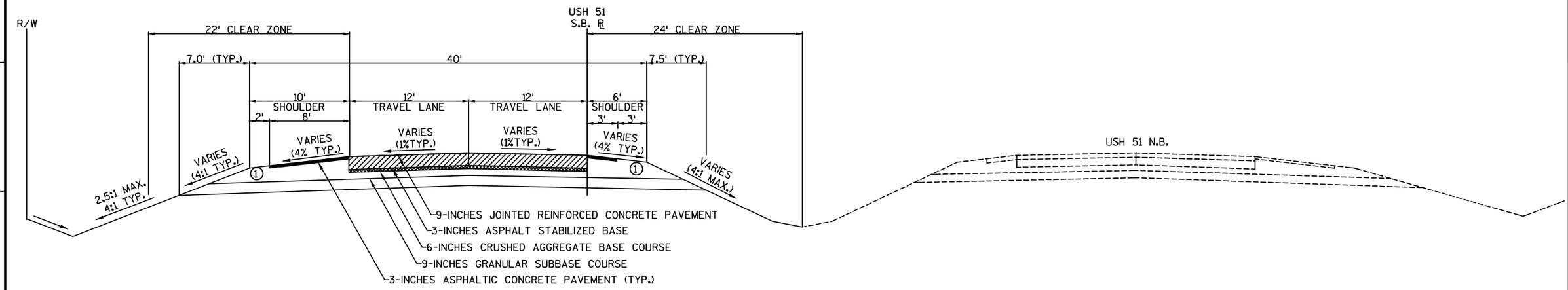


PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	PROJECT OVERVIEW	SHEET 3 E

FILE NAME : P:\90S\93\00093254\CADD\SHEETSPLAN\020201-PO.DWG
54100173 - 020201-PO - PROJECT OVERVIEW

PLOT DATE : 3/28/2016 10:10 AM PLOT BY : ADAM RYAN PLOT NAME : PLOT SCALE : 1:10_XREF

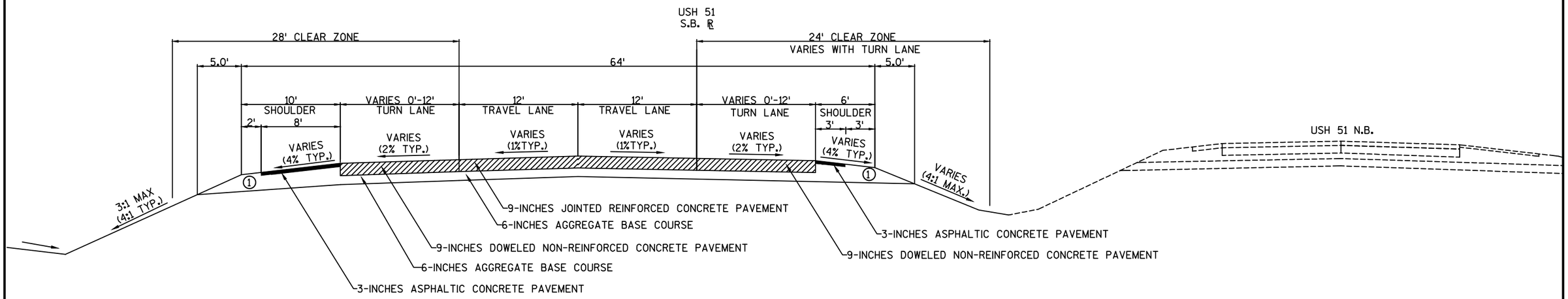
WISDOT/CADDS SHEET 42



EXISTING TYPICAL SECTION - USH 51 SB

STA. 627+82 TO STA. 630+12
STA. 649+90 TO STA. 658+56
STA. 668+91 TO STA. 681+87
STA. 690+68 TO STA. 698+70
STA. 754+68 TO STA. 774+83

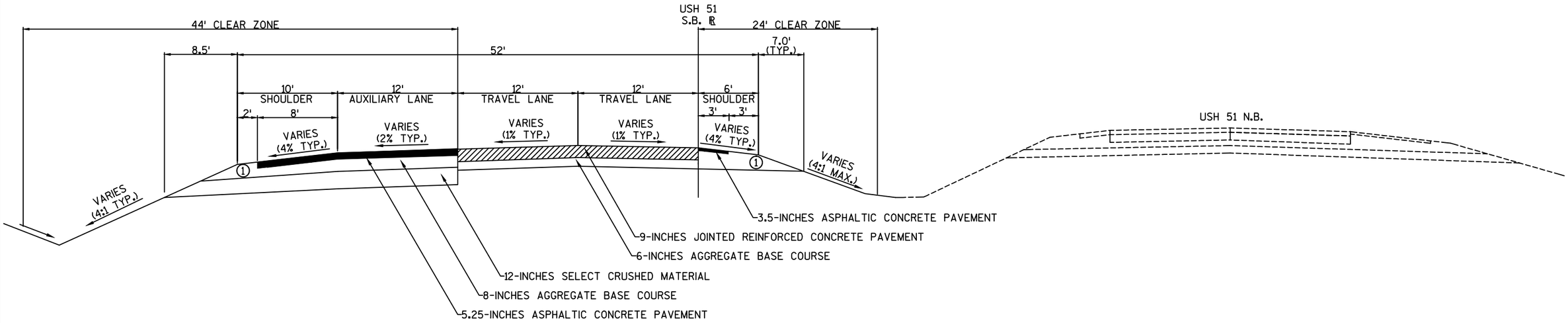
① Shoulder dimensions & slopes per as-builts have additional width and variable slopes due to shoulder maintenance and additional material added.



EXISTING TYPICAL SECTION - USH 51 SB
INTERSECTION TURN LANE SECTIONS

STA. 666+10 TO STA. 668+91
STA. 706+60 TO STA. 711+59

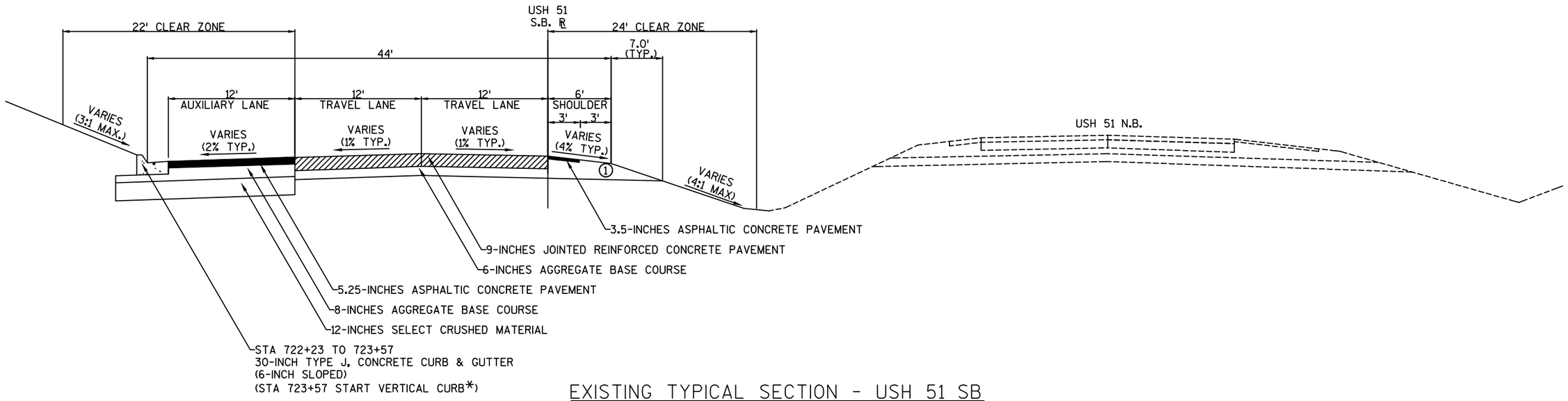
PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	EXISTING TYPICAL SECTIONS	SHEET 4	E



EXISTING TYPICAL SECTION - USH 51 SB

STA. 711+59 TO STA. 722+25

① Shoulder dimensions & slopes per as-builts have additional width and variable slopes due to shoulder maintenance and additional material added.

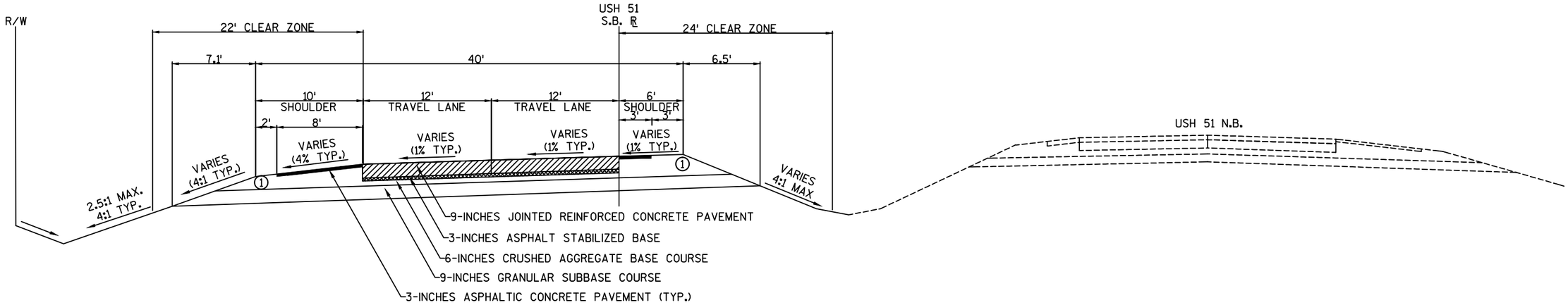


EXISTING TYPICAL SECTION - USH 51 SB

STA. 722+25 TO STA. 724+51

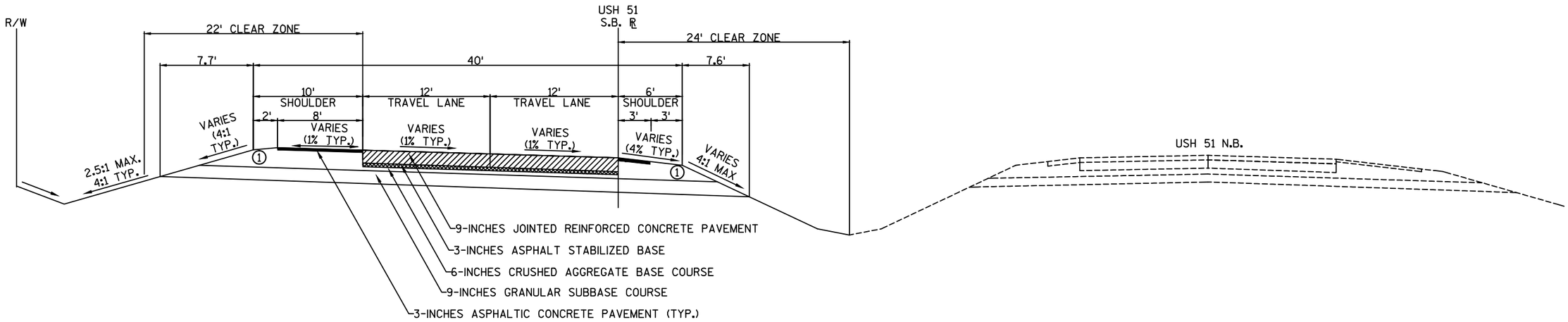
*STA 723+57 TO 724+51
30-INCH TYPE D, CONCRETE CURB & GUTTER

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	EXISTING TYPICAL SECTIONS	SHEET 5	E



EXISTING SUPERELEVATION TYPICAL SECTION - USH 51 SB

STA. 681+87 TO STA. 690+68

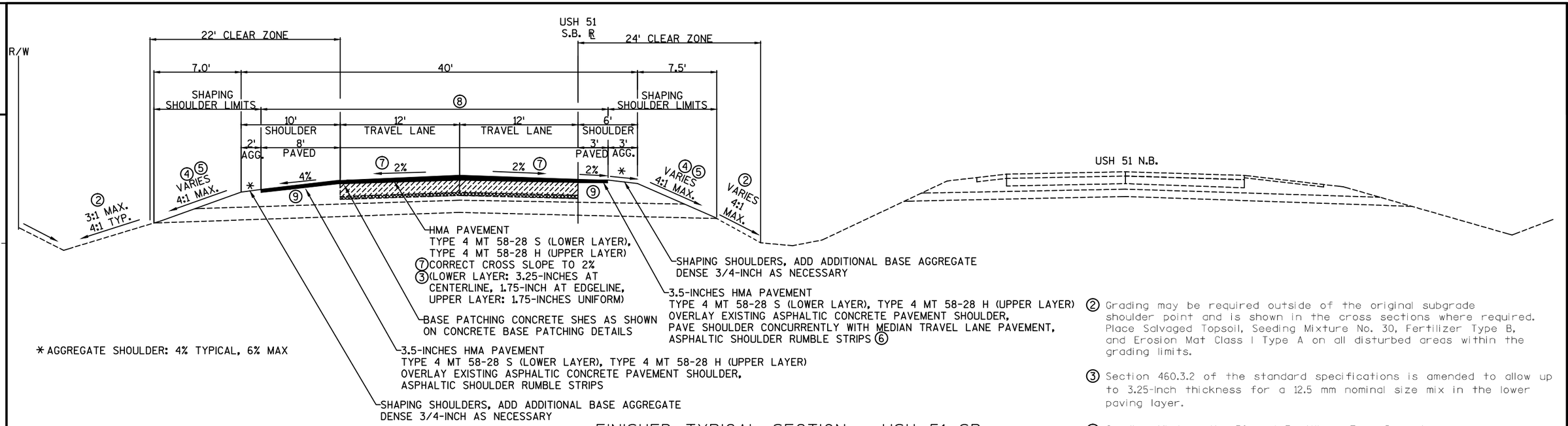


EXISTING SUPERELEVATION TYPICAL SECTION - USH 51 SB

STA. 630+12 TO STA. 649+90

① Shoulder dimensions & slopes per as-builts have additional width and variable slopes due to shoulder maintenance and additional material added.

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	EXISTING TYPICAL SECTIONS	SHEET 6	E

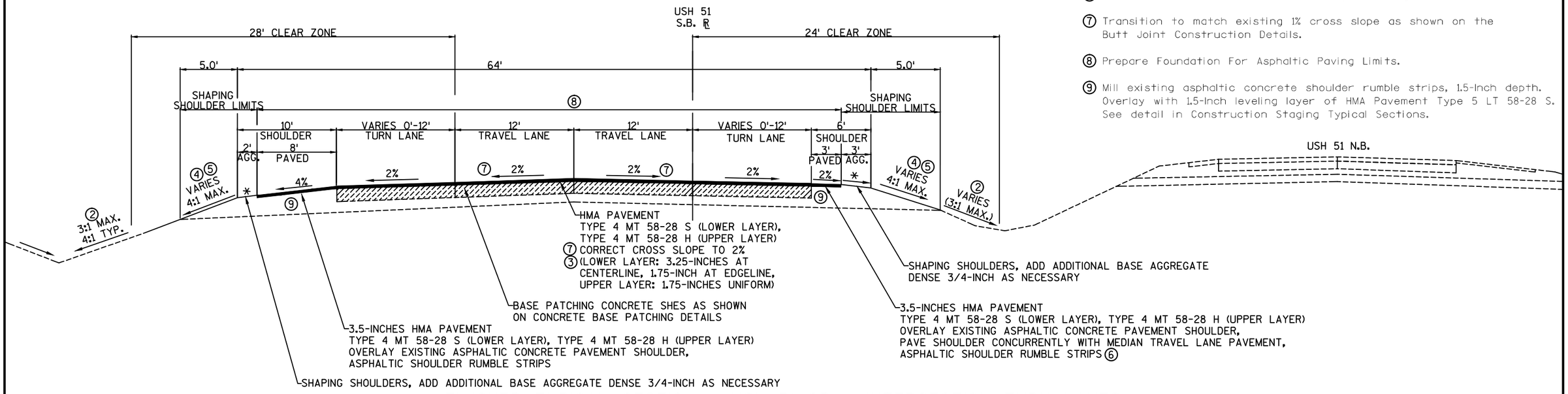


* AGGREGATE SHOULDER: 4% TYPICAL, 6% MAX

** SEE PLAN DETAILS AND CROSS SECTIONS FOR SHOULDER WIDENING FOR THE LANE DROP BETWEEN STA. 768+12 AND STA. 773+25

FINISHED TYPICAL SECTION - USH 51 SB

STA. 627+82 TO STA. 630+01
STA. 649+69 TO STA. 658+56
STA. 668+91 TO STA. 681+75
STA. 690+97 TO STA. 698+70
STA. 754+68 TO STA. 774+83 **



* AGGREGATE SHOULDER: 4% TYPICAL, 6% MAX

FINISHED TYPICAL SECTION - USH 51 SB - INTERSECTION TURN LANES

STA. 666+10 TO STA. 668+91
STA. 706+60 TO STA. 711+59

② Grading may be required outside of the original subgrade shoulder point and is shown in the cross sections where required. Place Salvaged Topsoil, Seeding Mixture No. 30, Fertilizer Type B, and Erosion Mat Class I Type A on all disturbed areas within the grading limits.

③ Section 460.3.2 of the standard specifications is amended to allow up to 3.25-inch thickness for a 12.5 mm nominal size mix in the lower paving layer.

④ Seeding Mixture No. 30 and Fertilizer Type B on base aggregate shoulder foreslope.

⑤ Shape shoulders out to the existing subgrade shoulder point by pulling existing material up to the shoulder edge or by adding new shoulder material if sufficient existing material is not available.

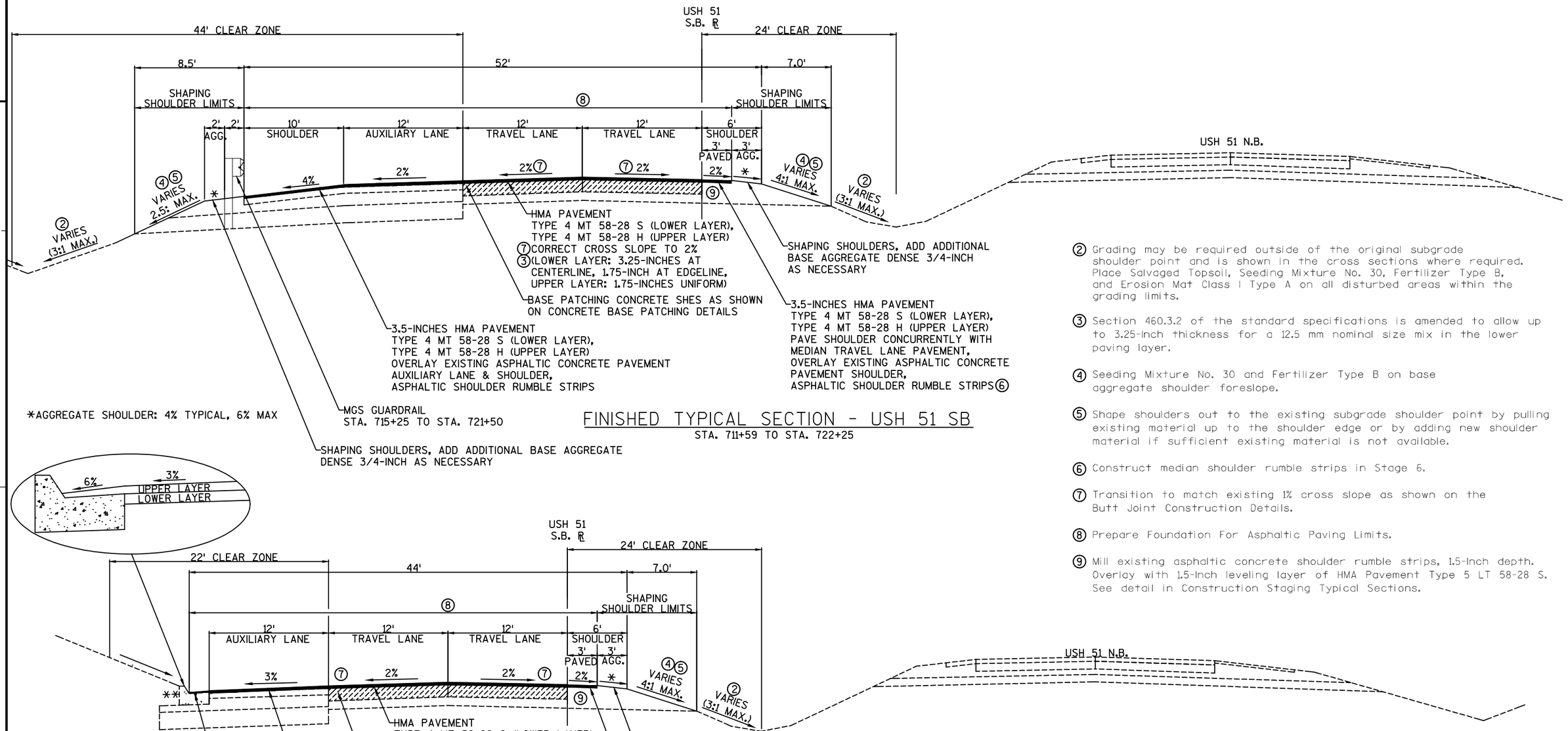
⑥ Construct median shoulder rumble strips in Stage 6.

⑦ Transition to match existing 1% cross slope as shown on the Butt Joint Construction Details.

⑧ Prepare Foundation For Asphaltic Paving Limits.

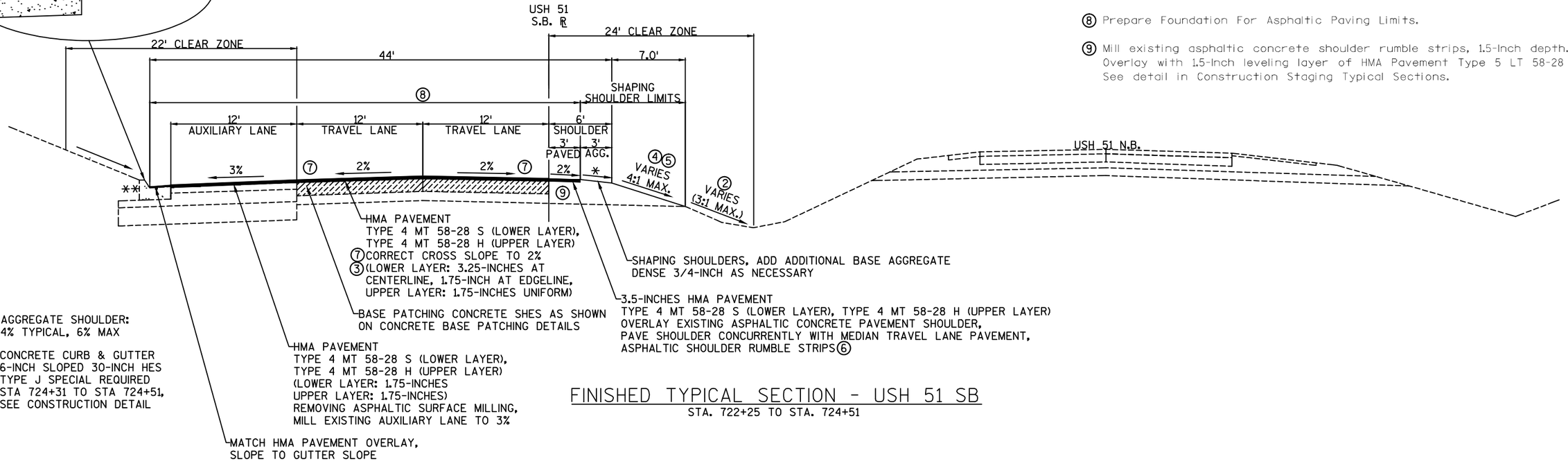
⑨ Mill existing asphaltic concrete shoulder rumble strips, 1.5-inch depth. Overlay with 1.5-inch leveling layer of HMA Pavement Type 5 LT 58-28 S. See detail in Construction Staging Typical Sections.

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	FINISHED TYPICAL SECTIONS	SHEET 7	E



FINISHED TYPICAL SECTION - USH 51 SB

STA. 711+59 TO STA. 722+25



FINISHED TYPICAL SECTION - USH 51 SB

STA. 722+25 TO STA. 724+51

② Grading may be required outside of the original subgrade shoulder point and is shown in the cross sections where required. Place Salvaged Topsoil, Seeding Mixture No. 30, Fertilizer Type B, and Erosion Mat Class I Type A on all disturbed areas within the grading limits.

③ Section 460.3.2 of the standard specifications is amended to allow up to 3.25-inch thickness for a 12.5 mm nominal size mix in the lower paving layer.

④ Seeding Mixture No. 30 and Fertilizer Type B on base aggregate shoulder foreslope.

⑤ Shape shoulders out to the existing subgrade shoulder point by pulling existing material up to the shoulder edge or by adding new shoulder material if sufficient existing material is not available.

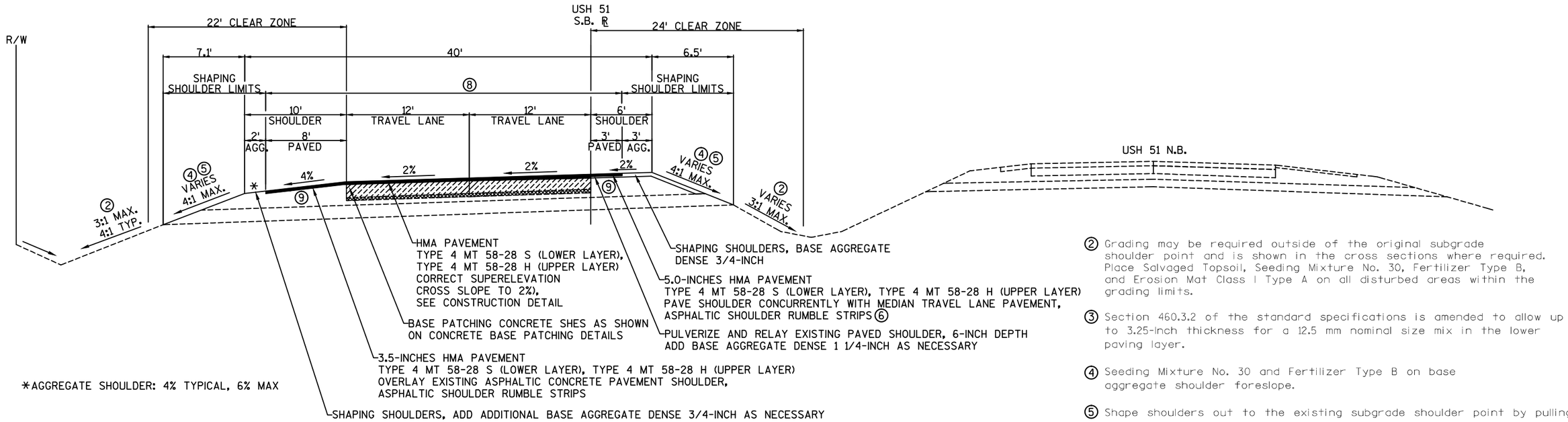
⑥ Construct median shoulder rumble strips in Stage 6.

⑦ Transition to match existing 1% cross slope as shown on the Butt Joint Construction Details.

⑧ Prepare Foundation For Asphaltic Paving Limits.

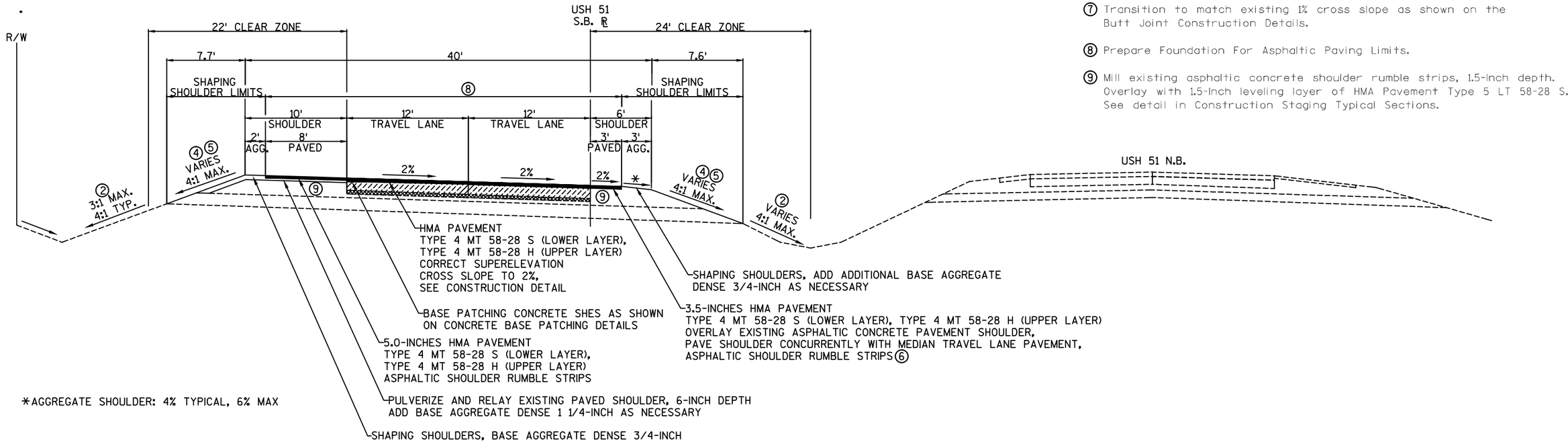
⑨ Mill existing asphaltic concrete shoulder rumble strips, 1.5-inch depth. Overlay with 1.5-inch leveling layer of HMA Pavement Type 5 LT 58-28 S. See detail in Construction Staging Typical Sections.

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	FINISHED TYPICAL SECTIONS	SHEET 8	E



FINISHED SUPERELEVATION TYPICAL SECTION - USH 51 SB

STA. 681+75 TO STA. 690+97



FINISHED SUPERELEVATION TYPICAL SECTION - USH 51 SB

STA. 630+01 TO STA. 649+69

② Grading may be required outside of the original subgrade shoulder point and is shown in the cross sections where required. Place Salvaged Topsoil, Seeding Mixture No. 30, Fertilizer Type B, and Erosion Mat Class I Type A on all disturbed areas within the grading limits.

③ Section 460.3.2 of the standard specifications is amended to allow up to 3.25-inch thickness for a 12.5 mm nominal size mix in the lower paving layer.

④ Seeding Mixture No. 30 and Fertilizer Type B on base aggregate shoulder foreslope.

⑤ Shape shoulders out to the existing subgrade shoulder point by pulling existing material up to the shoulder edge or by adding new shoulder material if sufficient existing material is not available.

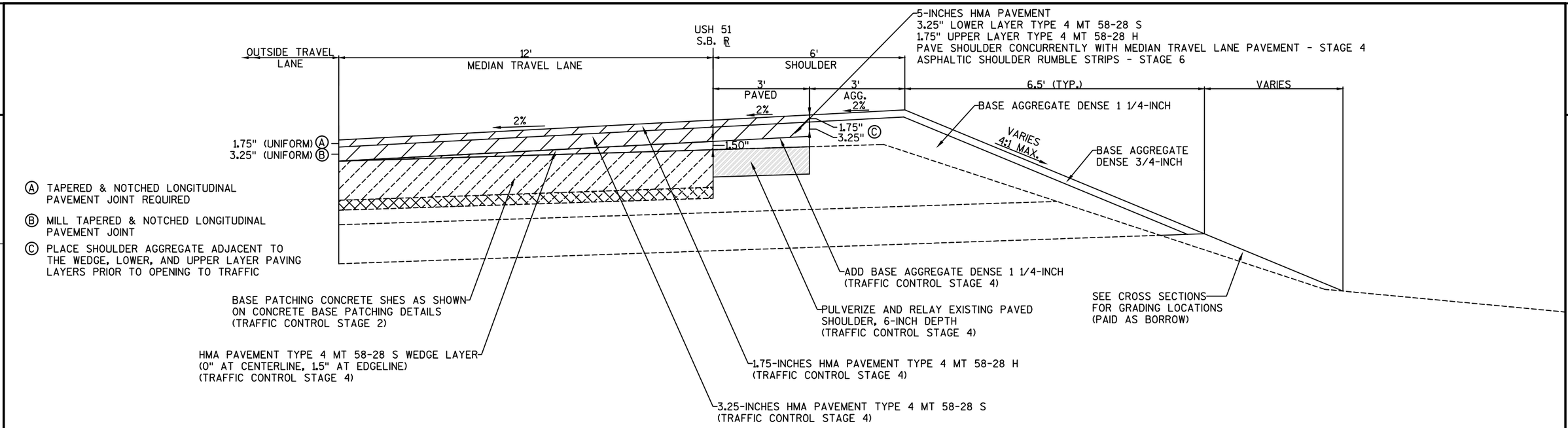
⑥ Construct median shoulder rumble strips in Stage 6.

⑦ Transition to match existing 1% cross slope as shown on the Butt Joint Construction Details.

⑧ Prepare Foundation For Asphaltic Paving Limits.

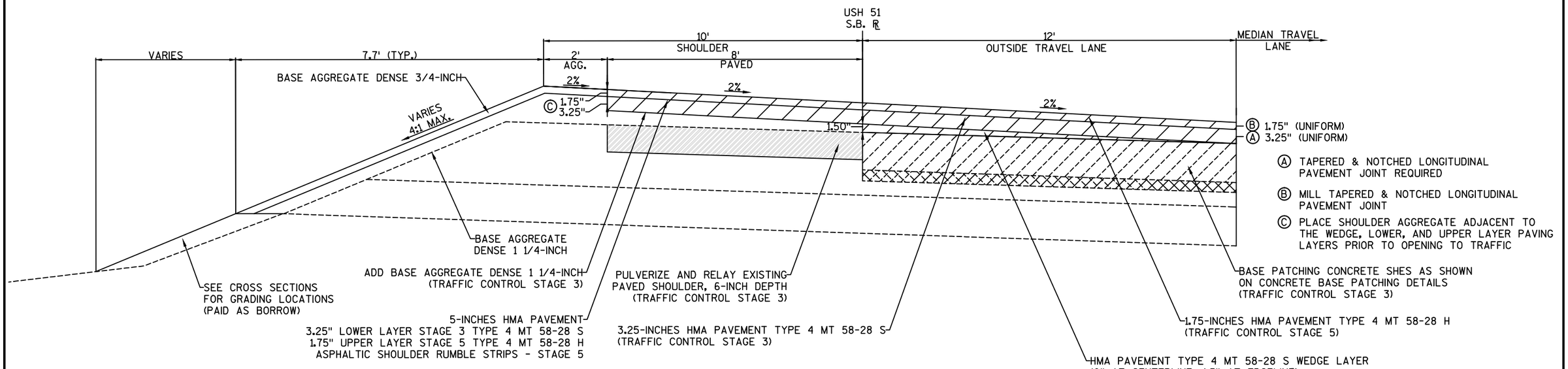
⑨ Mill existing asphaltic concrete shoulder rumble strips, 1.5-inch depth. Overlay with 1.5-inch leveling layer of HMA Pavement Type 5 LT 58-28 S. See detail in Construction Staging Typical Sections.

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	FINISHED TYPICAL SECTIONS	SHEET 9	E



SUPERELEVATION PAVEMENT SLOPE CORRECTION DETAIL - USH 51 SB

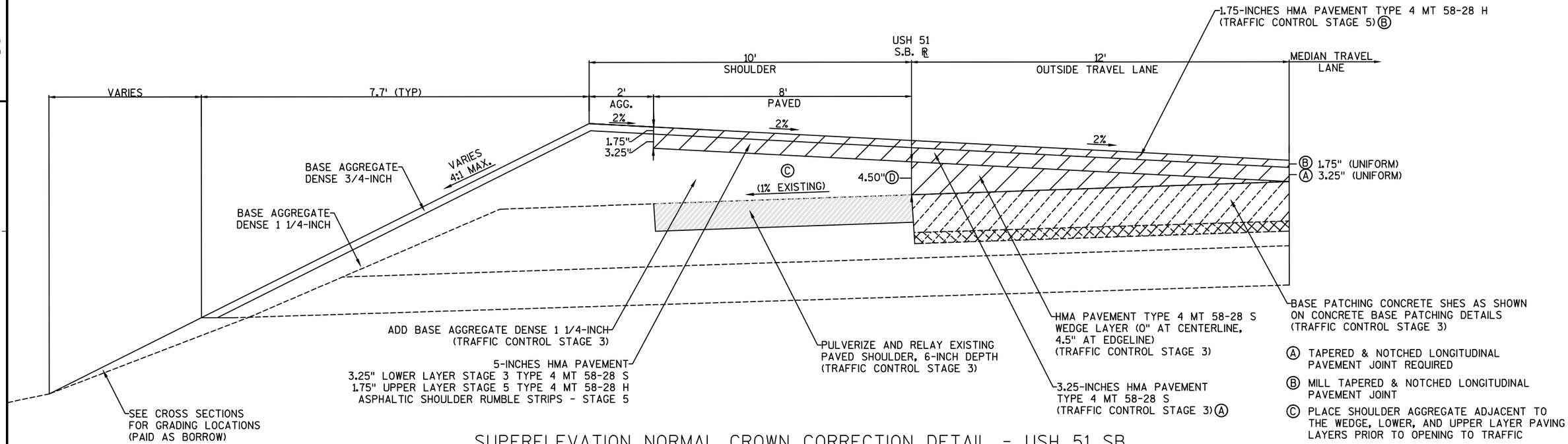
STA. 681+75 TO STA. 690+97



SUPERELEVATION PAVEMENT SLOPE CORRECTION DETAIL - USH 51 SB

STA. 630+01 TO STA. 649+69

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET 10	E



Ⓐ TAPERED & NOTCHED LONGITUDINAL PAVEMENT JOINT REQUIRED

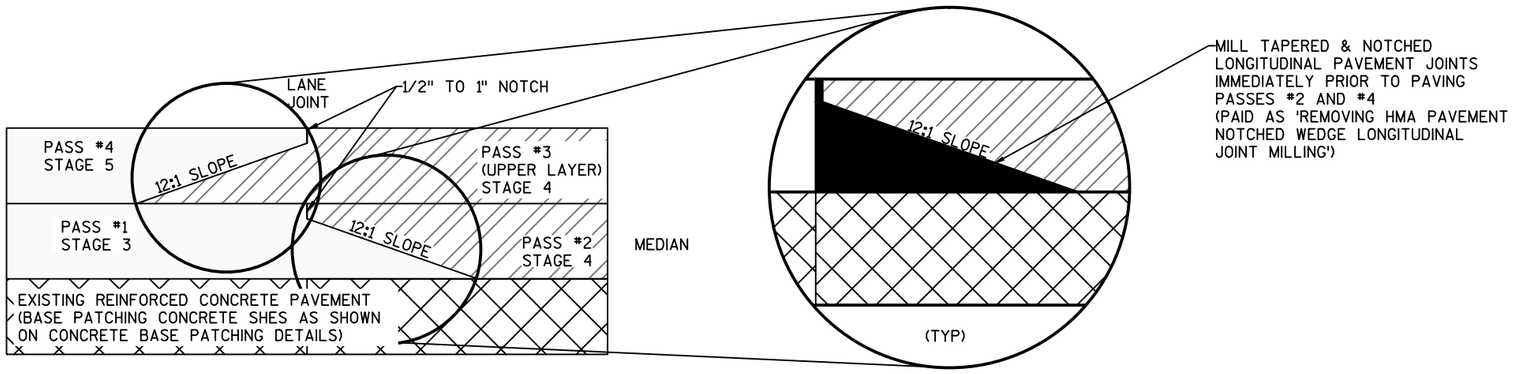
Ⓑ MILL TAPERED & NOTCHED LONGITUDINAL PAVEMENT JOINT

Ⓒ PLACE SHOULDER AGGREGATE ADJACENT TO THE WEDGE, LOWER, AND UPPER LAYER PAVING LAYERS PRIOR TO OPENING TO TRAFFIC

Ⓓ AT THE CONTRACTOR'S OPTION, THE HMA WEDGE LAYER MAY BE PAVED IN 2 LIFTS

SUPERELEVATION NORMAL CROWN CORRECTION DETAIL - USH 51 SB

STA. 647+50 TO STA. 651+00





W8-11
36" X 36"

NOTES:

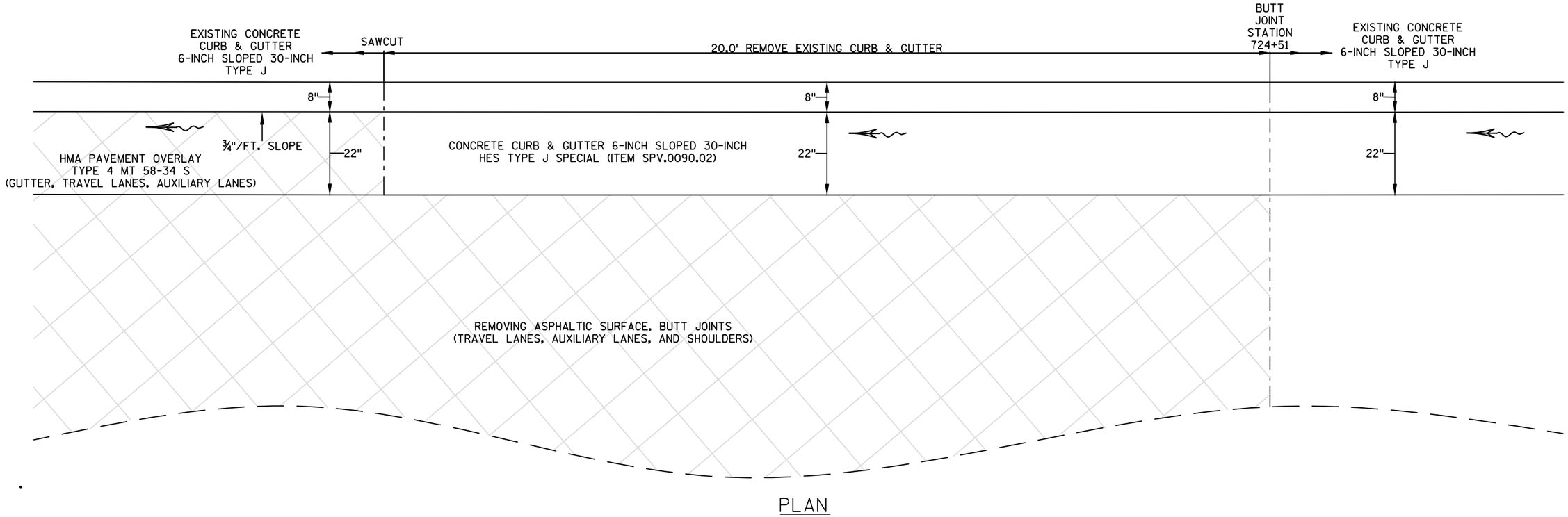
1. TO BE UTILIZED FOR TEMPORARY INSTALLATIONS IN WORK AREAS INVOLVING PAVING LONGITUDINAL JOINTS.
2. UNEVEN LANE SIGNS SHALL BE PLACED AT THE BEGINNING OF JOINT AND AT 1/2 MILE INCREMENTS.
3. SIGNS WILL BE PAID AS TRAFFIC CONTROL SIGNS.

TYPICAL PAVEMENT CROSS SECTIONS OF TAPERED & NOTCHED LONGITUDINAL JOINTS

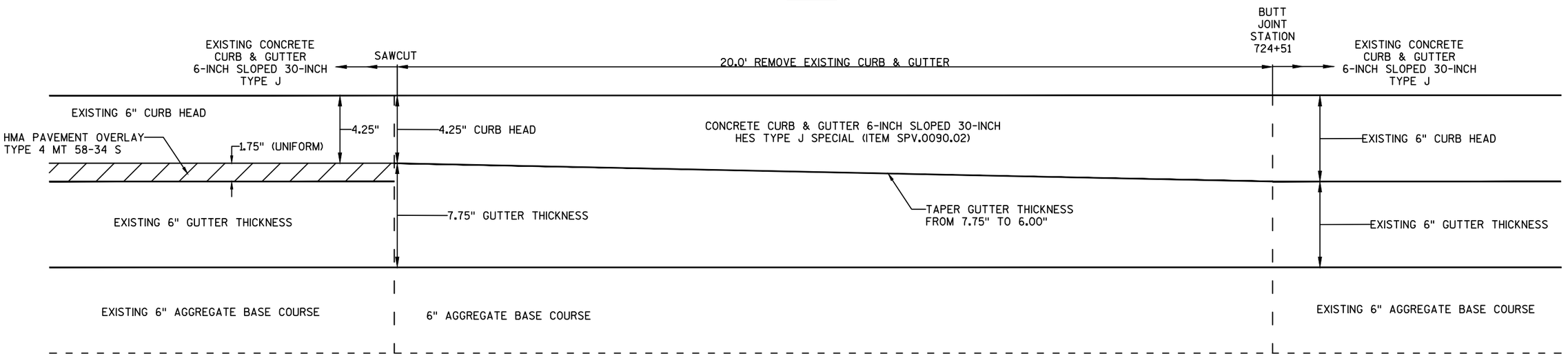
SCALE: NONE

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET 11	E

2



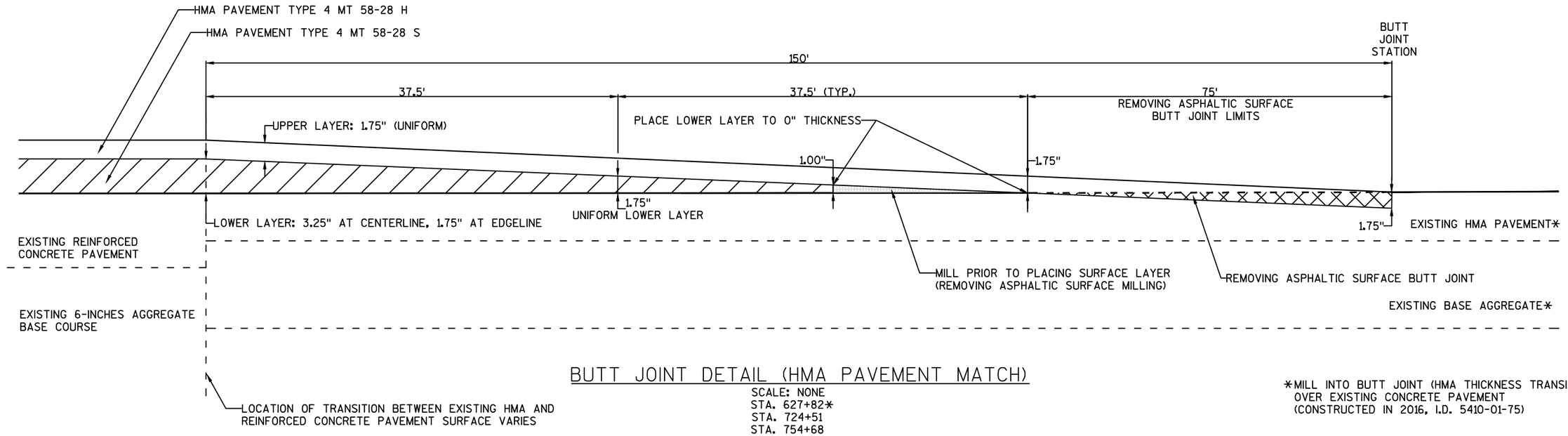
PLAN



PROFILE

CURB & GUTTER OVERLAY TRANSITION DETAIL

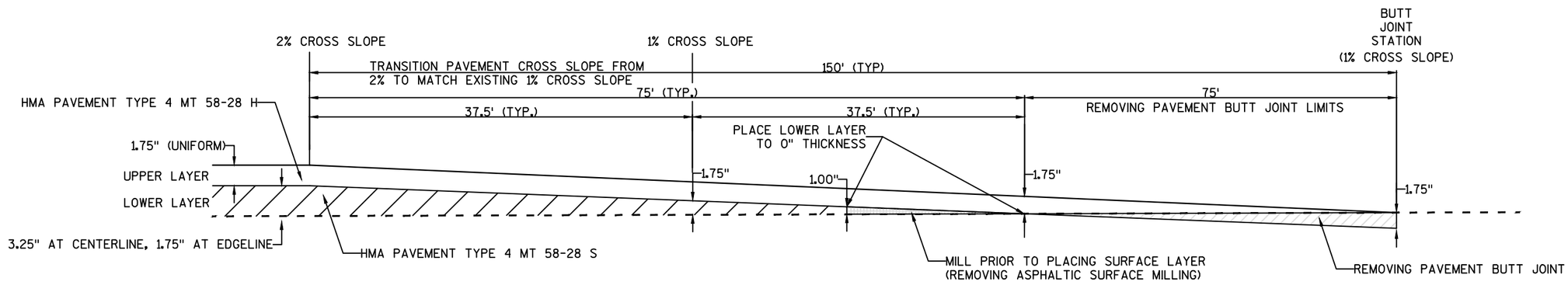
SCALE: NONE
STA. 724+31 TO STA. 724+51



BUTT JOINT DETAIL (HMA PAVEMENT MATCH)

SCALE: NONE
STA. 627+82*
STA. 724+51
STA. 754+68

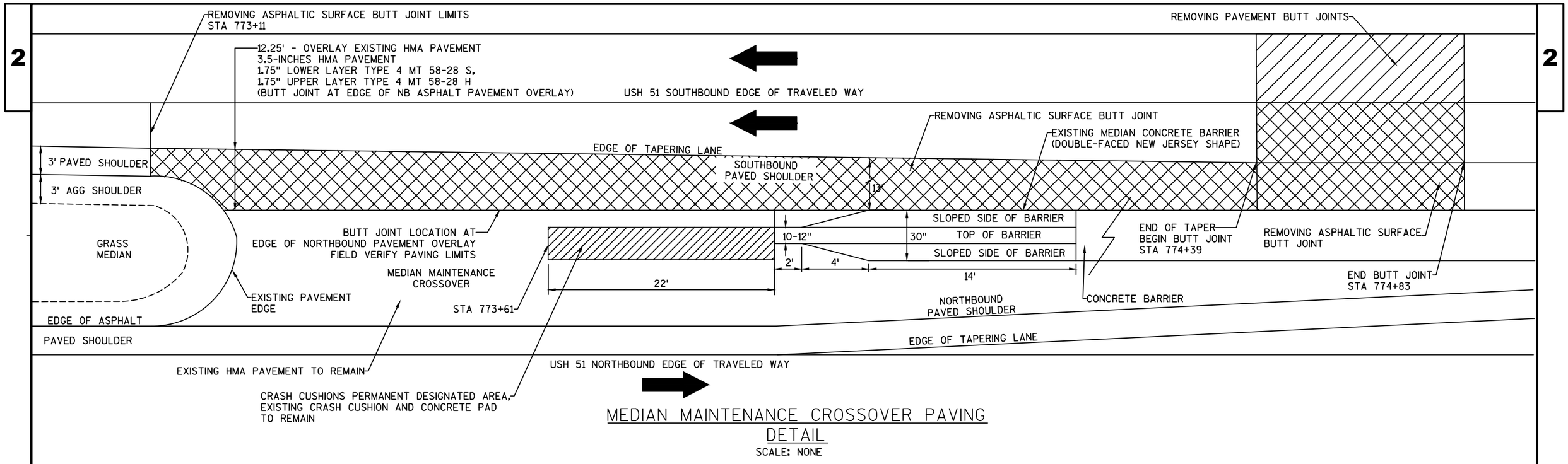
*MILL INTO BUTT JOINT (HMA THICKNESS TRANSITION) OVER EXISTING CONCRETE PAVEMENT (CONSTRUCTED IN 2016, I.D. 5410-01-75)



BUTT JOINT DETAIL (CONCRETE PAVEMENT MATCH)

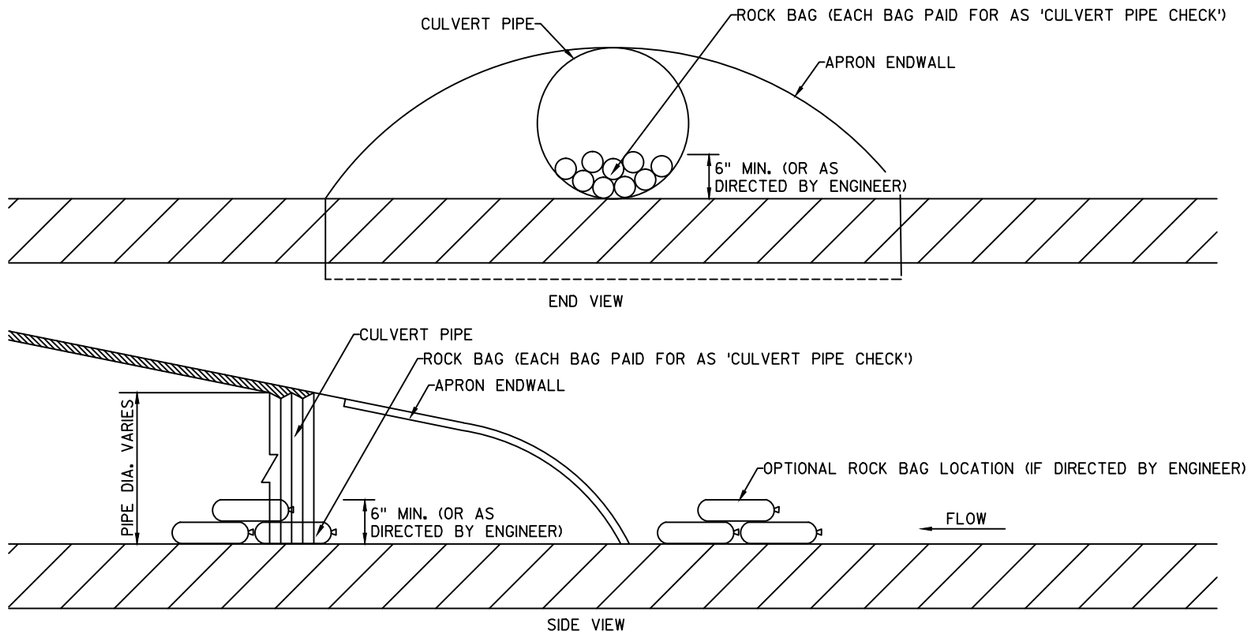
SCALE: NONE
STA. 658+56
STA. 666+10
STA. 698+70
STA. 706+60
STA 774+83

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET 13	E



MEDIAN MAINTENANCE CROSSOVER PAVING DETAIL

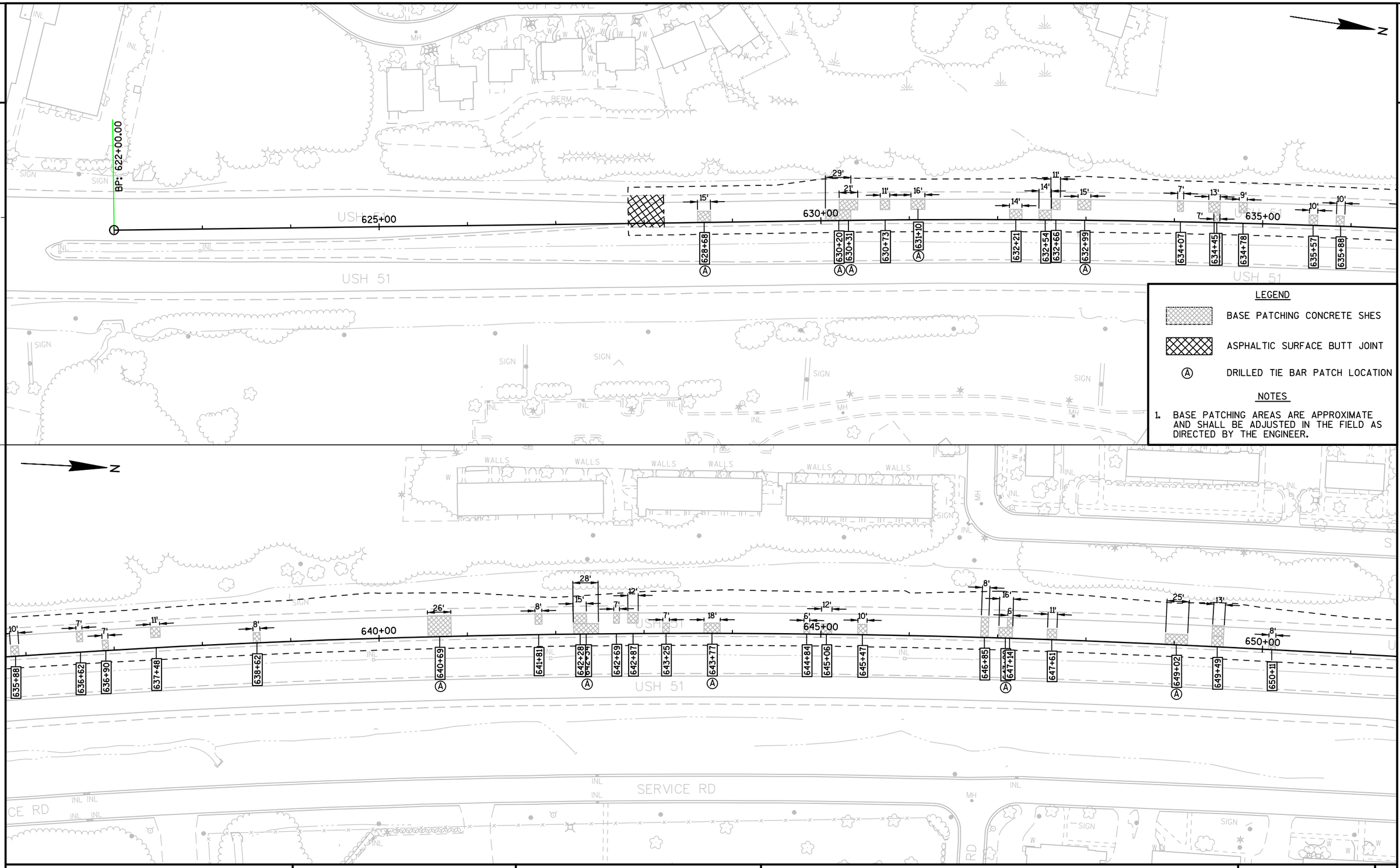
SCALE: NONE



CULVERT PIPE CHECK DETAIL

SCALE: NONE

ESTIMATED BAG SIZE = 24" X 12" X 6"	
PIPE SIZE	ESTIMATED NO. OF BAGS
12"	2
15"	2
18"	2
24"	3
30"	5
48"	10
54"	10
60"	13

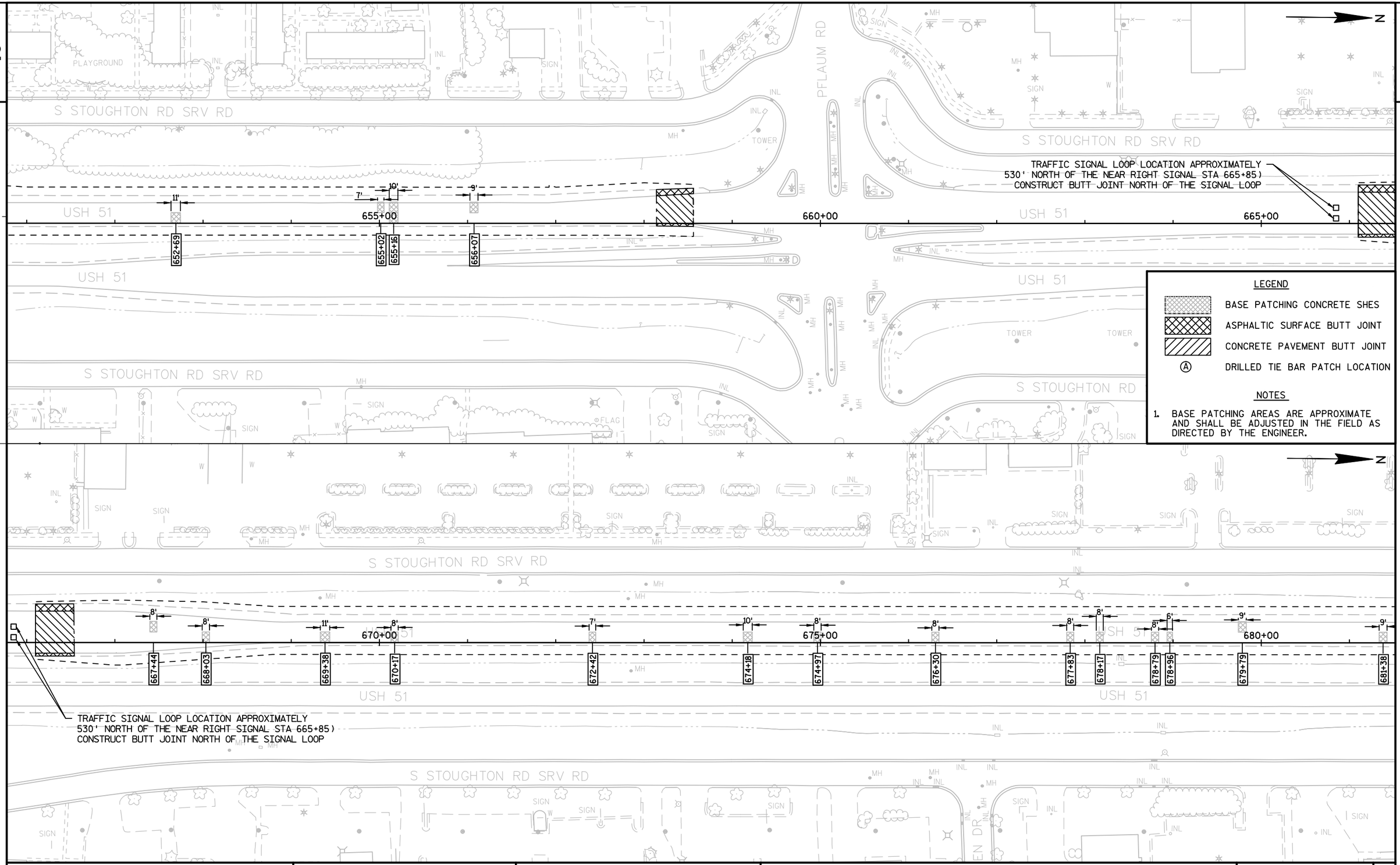


PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	CONCRETE BASE PATCHING PLAN	SHEET 15	E

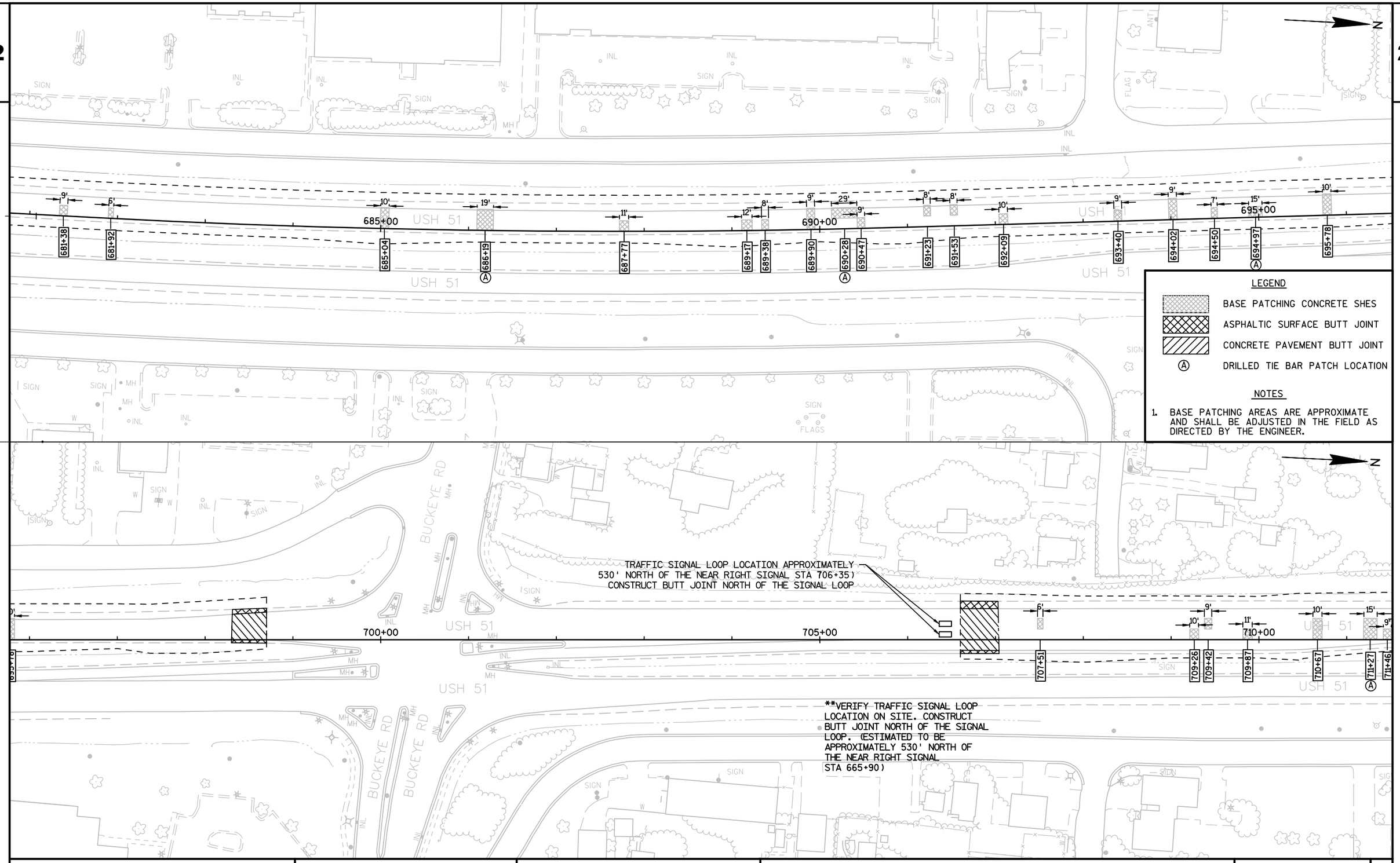
FILE NAME : P:\90S\93\00093254\CADD\SHEETSPLAN\CONCRETE PATCHING AREAS.DWG
LAYOUT NAME - 01

PLOT DATE : 5/27/2016 8:23 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : **********

2



PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	CONCRETE BASE PATCHING PLAN	SHEET 16	E



LEGEND

- BASE PATCHING CONCRETE SHES
- ASPHALTIC SURFACE BUTT JOINT
- CONCRETE PAVEMENT BUTT JOINT
- Ⓐ DRILLED TIE BAR PATCH LOCATION

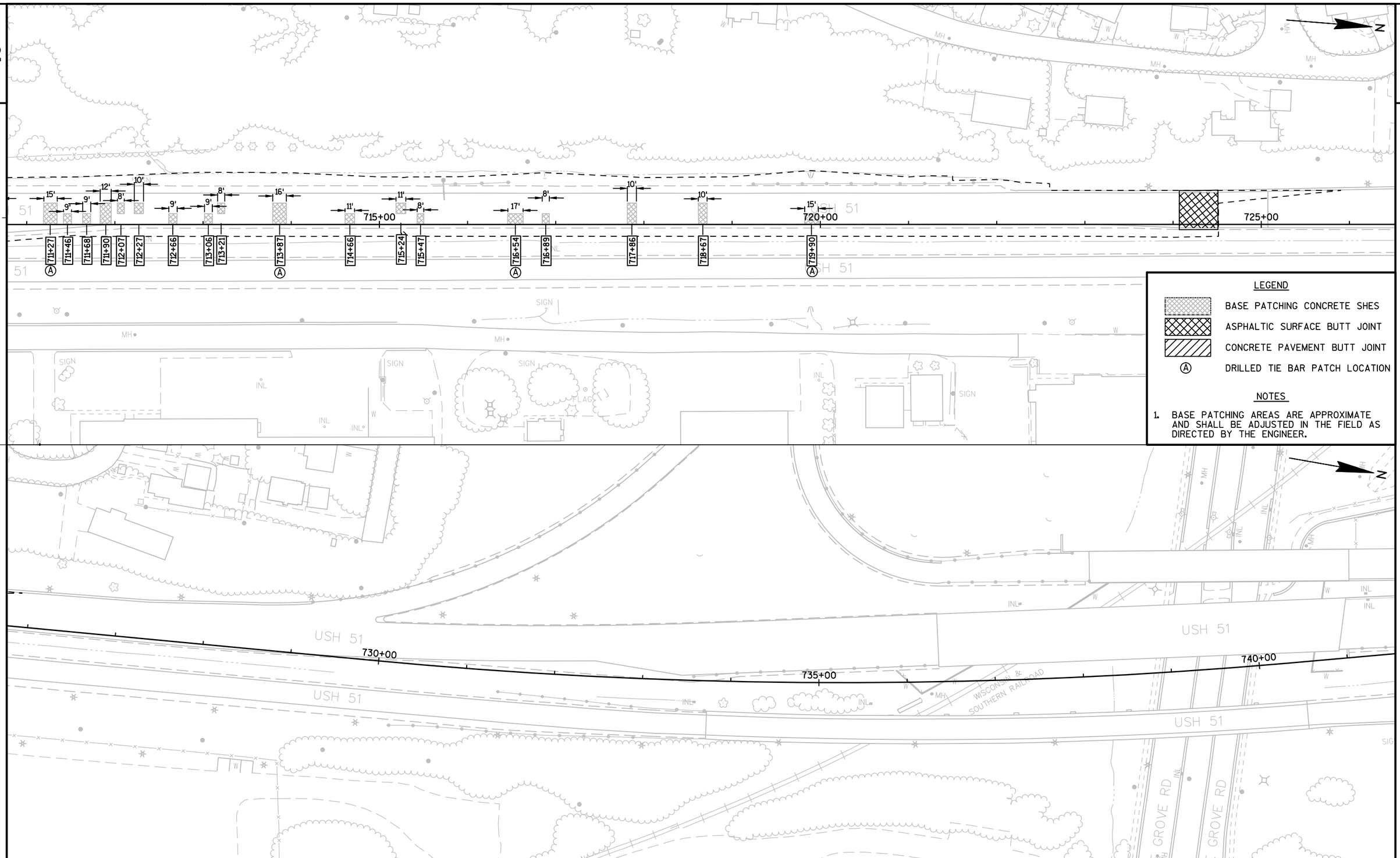
NOTES

1. BASE PATCHING AREAS ARE APPROXIMATE AND SHALL BE ADJUSTED IN THE FIELD AS DIRECTED BY THE ENGINEER.

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	CONCRETE BASE PATCHING PLAN	SHEET 17	E

FILE NAME : P:\90S\93\00093254\CADD\SHEETSPLAN\CONCRETE PATCHING AREAS.DWG
LAYOUT NAME - 03

PLOT DATE : 5/27/2016 8:24 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : **********



LEGEND

- BASE PATCHING CONCRETE SHES
- ASPHALTIC SURFACE BUTT JOINT
- CONCRETE PAVEMENT BUTT JOINT
- Ⓐ DRILLED TIE BAR PATCH LOCATION

NOTES

1. BASE PATCHING AREAS ARE APPROXIMATE AND SHALL BE ADJUSTED IN THE FIELD AS DIRECTED BY THE ENGINEER.

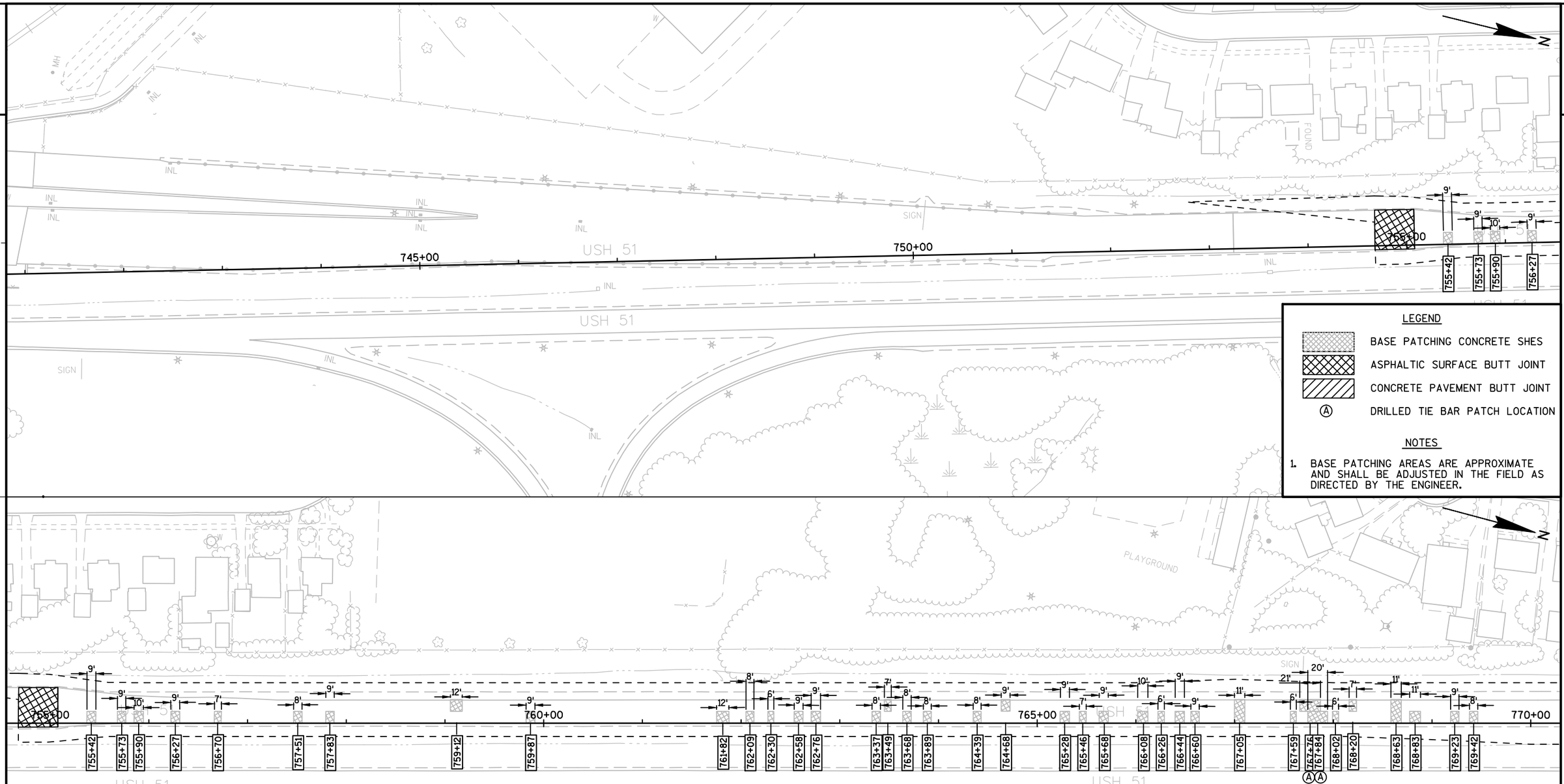
PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	CONCRETE BASE PATCHING PLAN	SHEET 18	E

FILE NAME : P:\90S\93\00093254\CADD\SHEETSPLAN\CONCRETE PATCHING AREAS.DWG
LAYOUT NAME - 04

PLOT DATE : 5/27/2016 8:24 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 42

2



LEGEND

- BASE PATCHING CONCRETE SHES
- ASPHALTIC SURFACE BUTT JOINT
- CONCRETE PAVEMENT BUTT JOINT
- Ⓐ DRILLED TIE BAR PATCH LOCATION

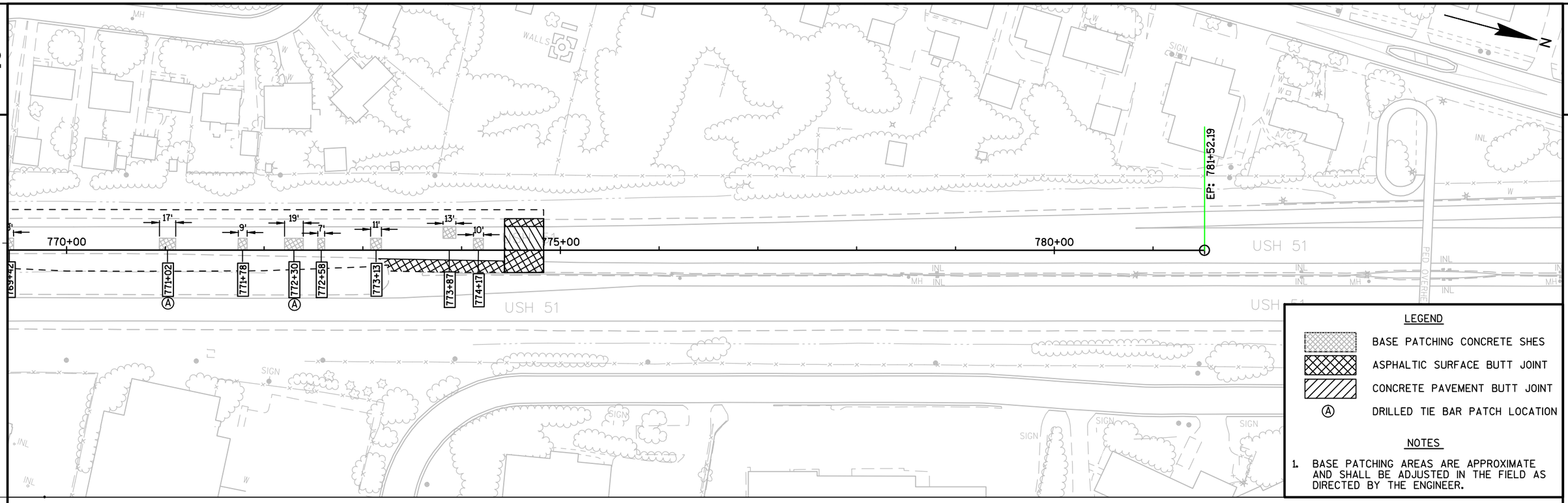
NOTES

1. BASE PATCHING AREAS ARE APPROXIMATE AND SHALL BE ADJUSTED IN THE FIELD AS DIRECTED BY THE ENGINEER.

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	CONCRETE BASE PATCHING PLAN	SHEET 19	E

FILE NAME : P:\90S\93\00093254\CADD\SHEETSPLAN\CONCRETE PATCHING AREAS.DWG
LAYOUT NAME - 05

PLOT DATE : 5/27/2016 8:24 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : **********



PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	CONCRETE BASE PATCHING PLAN	SHEET 20	E

2

2

N

COPPS AVE

SHIFT SILT FENCE AS TO NOT CROSS IN FRONT OF CULVERTS

622+00 623+00 624+00 625+00 626+00 627+00 628+00 629+00 630+00 631+00 632+00 633+00 634+00 635+00 636+00 637+00

MATCHLINE STA. 637+00

USH 51

SERVICE RD

BERM

SIGN

INL

MH

A/C

W

LEGEND

- INLET PROTECTION (TYPE)
- CULVERT PIPE CHECK
- TEMPORARY DITCH CHECK
- EROSION MAT CLASS I TYPE A
- SILT FENCE
- SLOPE INTERCEPTS

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	EROSION CONTROL	SHEET 21	E

2

N

WALLS WALLS WALLS WALLS WALLS WALLS

PLAYGROUND

PLAYGROU

S STOUG

INL

MH

SIGN

MATCHLINE STA. 637+00

637+00 638+00 639+00 640+00 641+00 642+00 643+00 644+00 645+00 646+00 647+00 648+00 649+00 650+00 651+00 652+00

MATCHLINE STA. 652+00

USH 51

SERVICE RD

S ST

TOMPKINS RD

FLAG

LEGEND

- INLET PROTECTION (TYPE)
- CULVERT PIPE CHECK
- TEMPORARY DITCH CHECK
- EROSION MAT CLASS I TYPE A
- SILT FENCE
- SLOPE INTERCEPTS

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	EROSION CONTROL	SHEET 22	E

FILE NAME : P:\90S\93\00093254\CADD\SHEETSPLAN\022001-EC.DWG
54100173 - 022001-EC - EC_03

PLOT DATE : 6/1/2016 5:52 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1" = 100'_XREF

2

N

MATCHLINE STA. 652+00

MATCHLINE STA. 667+00

653+00 654+00 655+00 656+00 657+00 658+00 659+00 660+00 661+00 662+00 663+00 664+00 665+00 666+00

USH 51

SERVICE LN

HTON RD SRV RD

PLAYGROUND

A/C

SIGN

INL

MH

TOWER

FLAUM RD

CANOPY

RAMP

FILLER CAP

W

S STOUGHTON RD SRV RD

FLAG

PFLAUM RD

SEIFERTH RD

LEGEND

- INLET PROTECTION (TYPE)
- CULVERT PIPE CHECK
- TEMPORARY DITCH CHECK
- EROSION MAT CLASS I TYPE A
- SILT FENCE
- SLOPE INTERCEPTS

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	EROSION CONTROL	SHEET 23	E

2

2

N

S STOUGHTON RD SRV RD

MATCHLINE STA. 667+00

+00 668+00 669+00 670+00 671+00 672+00 673+00 674+00 675+00 676+00 677+00 678+00 679+00 680+00 681+00 682

MATCHLINE STA. 682+00

USH 51

USH 51

S STOUGHTON RD SRV RD

HELGENSEN DR

LEGEND

- INLET PROTECTION (TYPE)
- CULVERT PIPE CHECK
- TEMPORARY DITCH CHECK
- EROSION MAT CLASS I TYPE A
- SILT FENCE
- SLOPE INTERCEPTS

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	EROSION CONTROL	SHEET 24	E

FILE NAME : P:\90S\93\00093254\CADD\SHEETSPLAN\022001-EC.DWG
54100173 - 022001-EC - EC_05

PLOT DATE : 6/1/2016 5:52 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1" = 100'_XREF

2

N

MATCHLINE STA. 682+00

683+00 684+00 685+00 686+00 687+00 688+00 689+00 690+00 691+00 692+00 693+00 694+00 695+00 696+00

MATCHLINE STA. 697+00

USH 51

FOR ENDWALL ON THE EAST SIDE OF THE MEDIAN

ATHLETIC FIELD

LEGEND

- INLET PROTECTION (TYPE)
- CULVERT PIPE CHECK
- TEMPORARY DITCH CHECK
- EROSION MAT CLASS I TYPE A
- SILT FENCE
- SLOPE INTERCEPTS

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	EROSION CONTROL	SHEET	E

FILE NAME : P:\90S\93\00093254\CADD\SHEETSPLAN\022001-EC.DWG
54100173 - 022001-EC - EC_06

PLOT DATE : 6/1/2016 5:53 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1" = 100'_XREF

2

2

N

MATCHLINE STA. 697+00

MATCHLINE STA. 712+00

+00 698+00 699+00 700+00 701+00 702+00 703+00 704+00 705+00 706+00 707+00 708+00 709+00 710+00 711+00 712

USH 51

BUCKEYE RD

POOL

SIGN

INL

MH

W

CANOPY

FILLER CAP

RUINS

LEGEND

- INLET PROTECTION (TYPE)
- CULVERT PIPE CHECK
- TEMPORARY DITCH CHECK
- EROSION MAT CLASS I TYPE A
- SILT FENCE
- SLOPE INTERCEPTS

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	EROSION CONTROL	SHEET 26	E

FILE NAME : P:\90S\93\00093254\CADD\SHEETSPLAN\022001-EC.DWG
54100173 - 022001-EC - EC_07

PLOT DATE : 6/1/2016 5:53 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1" = 100'_XREF

WISDOT/CADDS SHEET 42

2

2

N

MATCHLINE STA. 712+00

MATCHLINE STA. 727+00

712+00 713+00 714+00 715+00 716+00 717+00 718+00 719+00 720+00 721+00 722+00 723+00 724+00 725+00 726+00 727

USH 51

USH 51

SIGN

INL

MH

W

WALLS

TANKS

FILLER CAP

A/C

AG

FLAG

LEGEND

- INLET PROTECTION (TYPE)
- CULVERT PIPE CHECK
- TEMPORARY DITCH CHECK
- EROSION MAT CLASS I TYPE A
- SILT FENCE
- SLOPE INTERCEPTS

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	EROSION CONTROL	SHEET 27	E

FILE NAME : P:\90S\93\00093254\CADD\SHEETSPLAN\022001-EC.DWG
54100173 - 022001-EC - EC_08

PLOT DATE : 6/1/2016 5:53 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1" = 100'_XREF

WISDOT/CADDS SHEET 42

2

N

MATCHLINE STA. 727+00

727+00 728+00 729+00 730+00 731+00 732+00 733+00 734+00 735+00 736+00 737+00 738+00 739+00 740+00 741+00 742+00

MATCHLINE STA. 742+00

USH 51

WISCONSIN & SOUTHERN RAILROAD

COTTAGE GROVE RD

INL

MH

SIGN

W

T

LEGEND

- INLET PROTECTION (TYPE)
- CULVERT PIPE CHECK
- TEMPORARY DITCH CHECK
- EROSION MAT CLASS I TYPE A
- SILT FENCE
- SLOPE INTERCEPTS

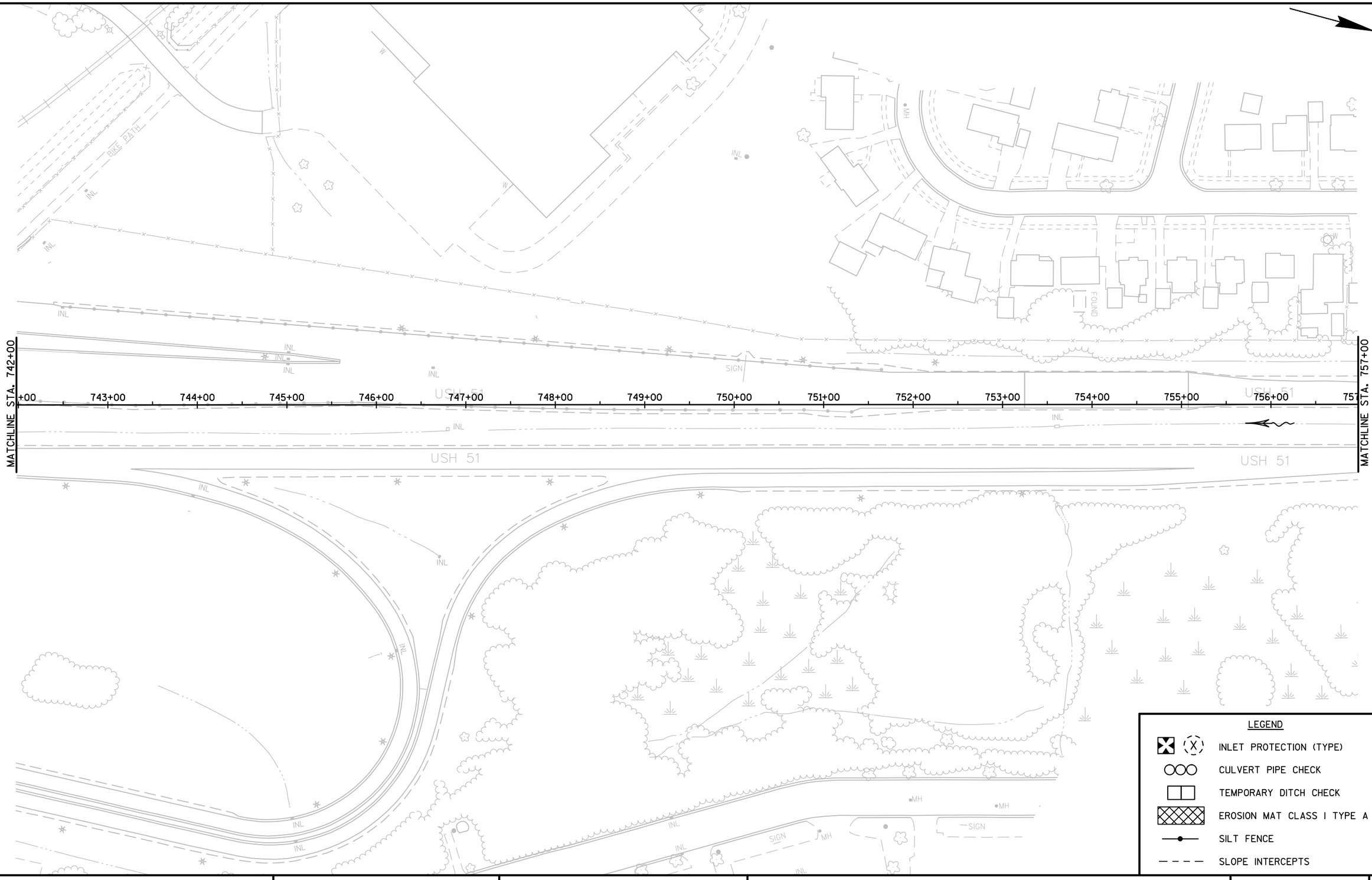
PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	EROSION CONTROL	SHEET 28	E

FILE NAME : P:\90S\93\00093254\CADD\SHEETSPLAN\022001-EC.DWG
54100173 - 022001-EC - EC_09

PLOT DATE : 6/1/2016 5:53 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1" = 100'_XREF

WISDOT/CADDS SHEET 42

2



LEGEND

- INLET PROTECTION (TYPE)
- CULVERT PIPE CHECK
- TEMPORARY DITCH CHECK
- EROSION MAT CLASS I TYPE A
- SILT FENCE
- SLOPE INTERCEPTS

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	EROSION CONTROL	SHEET 29	E

2

2

N

ATHLETIC FIELD

PLAYGROUND

MH

SIGN

MATCHLINE STA. 757+00

+00 758+00 759+00 760+00 761+00 762+00 763+00 764+00 765+00 766+00 767+00 768+00 769+00 770+00 771+00 772

MATCHLINE STA. 772+00

USH 51

USH 51

SIGN

W

WALL

W

W

INL

INL

INL

W

W

LEGEND

- (X) INLET PROTECTION (TYPE)
- CULVERT PIPE CHECK
- TEMPORARY DITCH CHECK
- EROSION MAT CLASS I TYPE A
- SILT FENCE
- SLOPE INTERCEPTS

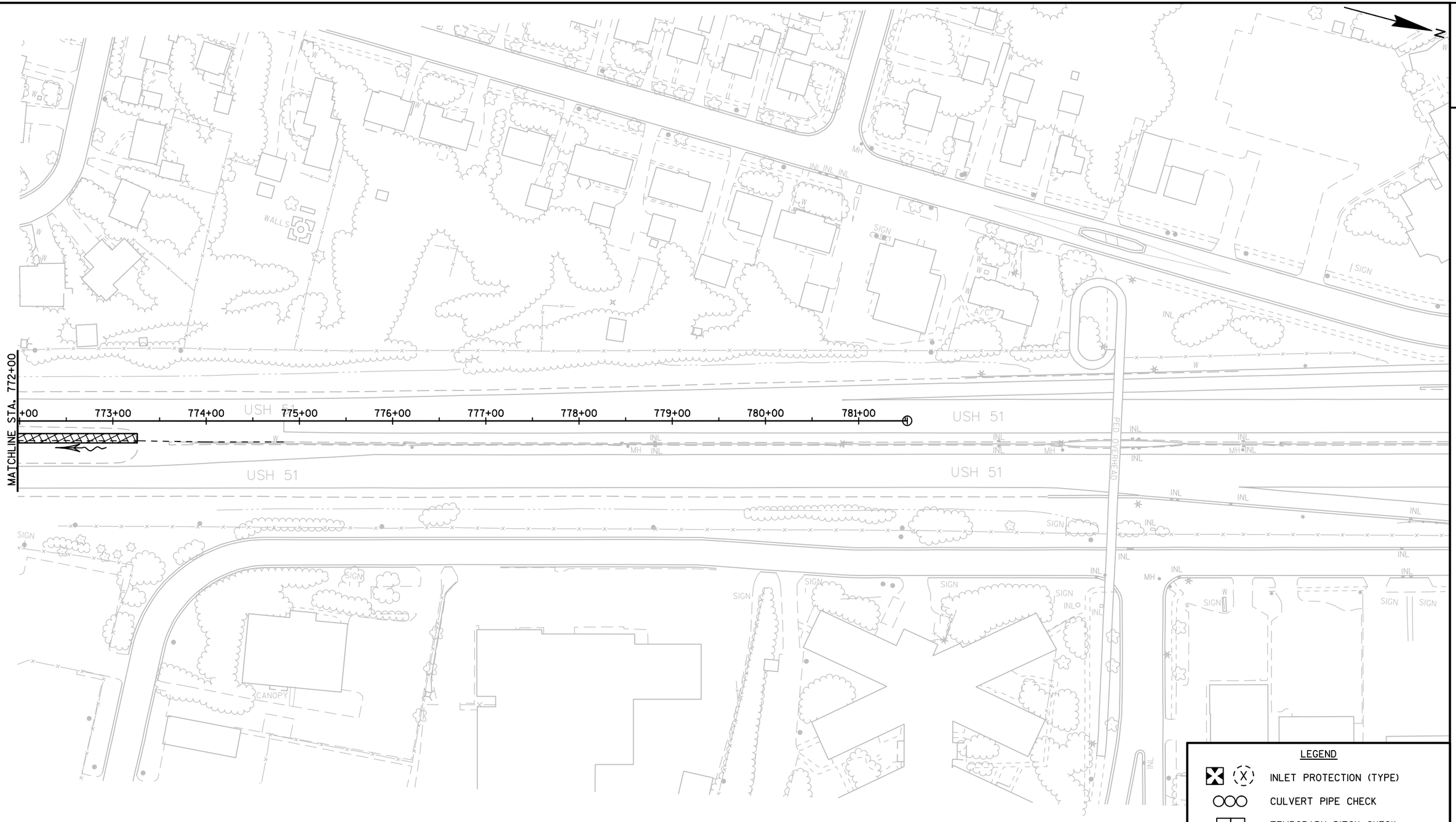
PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	EROSION CONTROL	SHEET 30	E

FILE NAME : P:\90S\93\00093254\CADD\SHEETSPLAN\022001-EC.DWG
54100173 - 022001-EC - EC_11

PLOT DATE : 6/1/2016 5:53 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1" = 100'_XREF

WISDOT/CADDS SHEET 42

2



LEGEND

- INLET PROTECTION (TYPE)
- CULVERT PIPE CHECK
- TEMPORARY DITCH CHECK
- EROSION MAT CLASS I TYPE A
- SILT FENCE
- SLOPE INTERCEPTS

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	EROSION CONTROL	SHEET 31	E

FILE NAME : P:\90S\93\00093254\CADD\SHEETSPLAN\022001-EC.DWG
54100173 - 022001-EC - EC_12

PLOT DATE : 6/1/2016 5:53 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1" = 100'_XREF

WISDOT/CADDS SHEET 42

2

N

COPPS AVE

USH 51

SERVICE RD

ESTR

JCT

COUNTY

BW

BERM

MATCH INTO EXISTING PAVEMENT MARKINGS

BP: 622+00.00

PI: 627+82.24

PC: 630+01.23

MATCHLINE STA. 637+00

622+00 623+00 624+00 625+00 626+00 627+00 628+00 629+00 630+00 631+00 632+00 633+00 634+00 635+00 636+00 637

REMOVE

R2.1

SPEED LIMIT 45

W3-5 36"X36"

2.1

B

C

A

REMOVE

R2.3

Broadway

EAST WEST

Broadway

EAST WEST

2.3

D1-60 84"X30"

2.2

REMOVE

Broadway

EAST WEST

R2.4

REMOVE

R2.2

LEGEND

ESTR: EXISTING SIGN TO REMAIN

* MATCH EXISTING LOCATIONS

[A] PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH, YELLOW

[B] PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH, WHITE

[C] PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH, WHITE, 12.5' LINE, 37.5' GAP (UPPER LAYER) AND TEMPORARY PAVEMENT MARKING PAINT 4-INCH, WHITE, 12.5' LINE, 37.5' GAP (LOWER LAYER)

[D] PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH, WHITE

[E] PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH, WHITE, 3' LINE, 9' GAP (UPPER LAYER) AND TEMPORARY PAVEMENT MARKING PAINT 8-INCH, WHITE, 3' LINE, 9' GAP (LOWER LAYER)

[F] PAVEMENT MARKING ARROWS EPOXY TYPE 2, WHITE

[G] PAVEMENT MARKING WORDS EPOXY, WHITE

[H] PAVEMENT MARKING STOP LINE EPOXY 18-INCH, WHITE

[I] PAVEMENT MARKING CROSSWALK EPOXY 6-INCH, WHITE

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	PERMANENT SIGNING AND PAVEMENT MARKINGS	SHEET 32	E

FILE NAME : P:\90S\93\00093254\CADD\SHEETSPLAN\023201-PS PM.DWG
54100173 - 023201-PS PM - PM_02

PLOT DATE : 6/30/2016 6:08 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

ESTR
GAS
FOOD
LODGING

WALLS WALLS WALLS WALLS WALLS WALLS

PLAYGROUND

REMOVE
R3.1
3.1
155-56
30"X36"

B
C
A

PT: 649+69.24

MATCHLINE STA. 637+00
+00 638+00 639+00 640+00 641+00 642+00 643+00 644+00 645+00 646+00 647+00 648+00 649+00 650+00 651+00 652
MATCHLINE STA. 652+00

USH 51

INL
SIGN
MH
W
FLAG

SERVICE RD
TOMPKINS RD
S ST

LEGEND

ESTR: EXISTING SIGN TO REMAIN

* MATCH EXISTING LOCATIONS

[A] PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH, YELLOW

[B] PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH, WHITE

[C] PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH, WHITE, 12.5' LINE, 37.5' GAP (UPPER LAYER) AND TEMPORARY PAVEMENT MARKING PAINT 4-INCH, WHITE, 12.5' LINE, 37.5' GAP (LOWER LAYER)

[D] PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH, WHITE

[E] PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH, WHITE, 3' LINE, 9' GAP (UPPER LAYER) AND TEMPORARY PAVEMENT MARKING PAINT 8-INCH, WHITE, 3' LINE, 9' GAP (LOWER LAYER)

[F] PAVEMENT MARKING ARROWS EPOXY TYPE 2, WHITE

[G] PAVEMENT MARKING WORDS EPOXY, WHITE

[H] PAVEMENT MARKING STOP LINE EPOXY 18-INCH, WHITE

[I] PAVEMENT MARKING CROSSWALK EPOXY 6-INCH, WHITE

2

N

SERVICE LN

PLAYGROUND

A/C

SPEED LIMIT 55 — 4.1

R2-1 36"X48"

J4-2 72"X54" BLUE BACKGROUND

SOUTH ALTERNATE INTERSTATE 51 39 — 4.2

FLAUM RD

HTON RD SRV RD

REMOVE ALTERNATE INTERSTATE 39 — R4.1

REMOVE SPEED LIMIT 55 — R4.3

REMOVE SOUTH 51 — R4.5

TOWER

MATCHLINE STA. 652+00

653+00 654+00 655+00 656+00 657+00 658+00 659+00 660+00 661+00 662+00 663+00 664+00 665+00 666+00 667+00

MATCHLINE STA. 667+00

USH 51

RAMP

CANOPY

FILLER CAP

SIGN

S STOUGHTON RD SRV RD

REMOVE ALTERNATE INTERSTATE 39 — R4.2

REMOVE SPEED LIMIT 55 — R4.4

OUGHTON RD SRV RD

FLAG

PFLAUM RD

SEIFERTH RD

LEGEND

ESTR: EXISTING SIGN TO REMAIN

* MATCH EXISTING LOCATIONS

[A] PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH, YELLOW

[B] PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH, WHITE

[C] PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH, WHITE, 12.5' LINE, 37.5' GAP (UPPER LAYER) AND TEMPORARY PAVEMENT MARKING PAINT 4-INCH, WHITE, 12.5' LINE, 37.5' GAP (LOWER LAYER)

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[F] PAVEMENT MARKING ARROWS EPOXY TYPE 2, WHITE

[G] PAVEMENT MARKING WORDS EPOXY, WHITE

[H] PAVEMENT MARKING STOP LINE EPOXY 18-INCH, WHITE

[I] PAVEMENT MARKING CROSSWALK EPOXY 6-INCH, WHITE

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	PERMANENT SIGNING AND PAVEMENT MARKINGS	SHEET 34	E

FILE NAME : P:\90S\93\00093254\CADD\SHEETSPLAN\023201-PS PM.DWG
54100173 - 023201-PS PM - PM_04

PLOT DATE : 6/30/2016 6:08 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

REMOVE

ALTERNATE INTERSTATE 39

R5.1

Pflaum Rd

5.1

D1-61
78"X30"

R5.4

5.2

W3-3
36"X36"

S STOUGHTON RD SRV RD

MATCHLINE STA. 667+00

PC: 681+74.98

MATCHLINE STA. 682+00

668+00 669+00 670+00 671+00 672+00 673+00 674+00 675+00 676+00 677+00 678+00 679+00 680+00 681+00

A B C D

USH 51

REMOVE

ALTERNATE INTERSTATE 39

R5.2

REMOVE

Pflaum Rd

R5.3

REMOVE

R5.5

5.3

W3-3
36"X36"

STOUGHTON RD SRV RD

HELGENSEN DR

LEGEND

ESTR: EXISTING SIGN TO REMAIN

* MATCH EXISTING LOCATIONS

A PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH, YELLOW

B PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH, WHITE

C PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH, WHITE, 12.5' LINE, 37.5' GAP (UPPER LAYER) AND TEMPORARY PAVEMENT MARKING PAINT 4-INCH, WHITE, 12.5' LINE, 37.5' GAP (LOWER LAYER)

D PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH, WHITE

E PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH, WHITE, 3' LINE, 9' GAP (UPPER LAYER) AND TEMPORARY PAVEMENT MARKING PAINT 8-INCH, WHITE, 3' LINE, 9' GAP (LOWER LAYER)

F PAVEMENT MARKING ARROWS EPOXY TYPE 2, WHITE

G PAVEMENT MARKING WORDS EPOXY, WHITE

H PAVEMENT MARKING STOP LINE EPOXY 18-INCH, WHITE

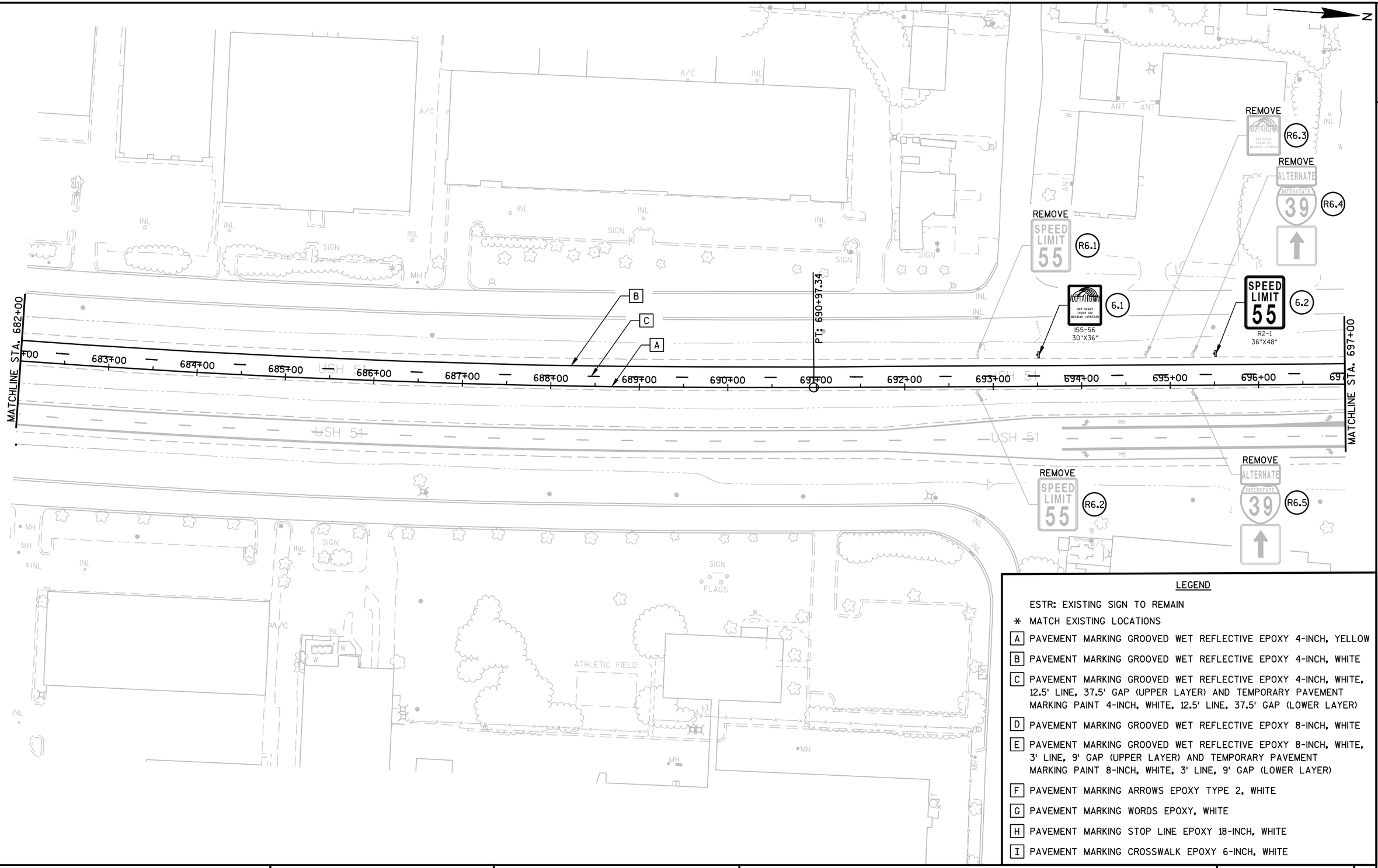
I PAVEMENT MARKING CROSSWALK EPOXY 6-INCH, WHITE

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	PERMANENT SIGNING AND PAVEMENT MARKINGS	SHEET 35	E

FILE NAME : P:\90S\93\00093254\CADD\SHEETSPLAN\023201-PS PM.DWG
54100173 - 023201-PS PM - PM_05

PLOT DATE : 6/30/2016 6:08 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42



LEGEND

ESTR: EXISTING SIGN TO REMAIN

* MATCH EXISTING LOCATIONS

[A] PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH, YELLOW

[B] PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH, WHITE

[C] PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH, WHITE, 12.5' LINE, 37.5' GAP (UPPER LAYER) AND TEMPORARY PAVEMENT MARKING PAINT 4-INCH, WHITE, 12.5' LINE, 37.5' GAP (LOWER LAYER)

[D] PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH, WHITE

[E] PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH, WHITE, 3' LINE, 9' GAP (UPPER LAYER) AND TEMPORARY PAVEMENT MARKING PAINT 8-INCH, WHITE, 3' LINE, 9' GAP (LOWER LAYER)

[F] PAVEMENT MARKING ARROWS EPOXY TYPE 2, WHITE

[G] PAVEMENT MARKING WORDS EPOXY, WHITE

[H] PAVEMENT MARKING STOP LINE EPOXY 18-INCH, WHITE

[I] PAVEMENT MARKING CROSSWALK EPOXY 6-INCH, WHITE

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	PERMANENT SIGNING AND PAVEMENT MARKINGS	SHEET 36	E

FILE NAME : P:\90S\93\00093254\CADD\SHEETSPLAN\023201-PS PM.DWG
54100173 - 023201-PS PM - PM_06
PLOT DATE : 6/30/2016 6:09 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

N

REMOVE
SOUTH
51
R7.1

J4-2
72"X54"
BLUE BACKGROUND
SOUTH ALTERNATE
51 INTERSTATE 39
7.1

PI: 697+49.82

REMOVE
ALTERNATE
INTERSTATE
39
R7.3

REMOVE
RIGHT LANE MUST TURN RIGHT
R7.6

RIGHT LANE MUST TURN RIGHT
R3-7R
36"X36"
7.2

MATCHLINE STA. 697+00

MATCHLINE STA. 712+00

697+00 698+00 699+00 700+00 701+00 702+00 703+00 704+00 705+00 706+00 707+00 708+00 709+00 710+00 711+00 712+00

USH 51

BUCKEYE RD

J13-1
36"X66"
COUNTY AB
7.3

REMOVE
COUNTY AB
R7.2

REMOVE
ALTERNATE
INTERSTATE
39
R7.4

REMOVE
Buckeye Rd
R7.5

LEGEND

ESTR: EXISTING SIGN TO REMAIN

* MATCH EXISTING LOCATIONS

A PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH, YELLOW

B PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH, WHITE

C PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH, WHITE, 12.5' LINE, 37.5' GAP (UPPER LAYER) AND TEMPORARY PAVEMENT MARKING PAINT 4-INCH, WHITE, 12.5' LINE, 37.5' GAP (LOWER LAYER)

D PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH, WHITE

E PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH, WHITE, 3' LINE, 9' GAP (UPPER LAYER) AND TEMPORARY PAVEMENT MARKING PAINT 8-INCH, WHITE, 3' LINE, 9' GAP (LOWER LAYER)

F PAVEMENT MARKING ARROWS EPOXY TYPE 2, WHITE

G PAVEMENT MARKING WORDS EPOXY, WHITE

H PAVEMENT MARKING STOP LINE EPOXY 18-INCH, WHITE

I PAVEMENT MARKING CROSSWALK EPOXY 6-INCH, WHITE

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	PERMANENT SIGNING AND PAVEMENT MARKINGS	SHEET 37	E

FILE NAME : P:\90S\93\00093254\CADD\SHEETSPLAN\023201-PS PM.DWG
54100173 - 023201-PS PM - PM_07

PLOT DATE : 6/30/2016 6:09 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

MATCHLINE STA. 712+00

MATCHLINE STA. 727+00

712+00 713+00 714+00 715+00 716+00 717+00 718+00 719+00 720+00 721+00 722+00 723+00 724+00 725+00 726+00 727

USH 51

REMOVE R8.1

8.1 W3-3 36"X36"

REMOVE JCT COUNTY AB R8.3

J1-1 36"X57" JCT COUNTY AB 8.3

REMOVE ONLY R8.4

8.4 ONLY R3-5R 42"X48"

8.6 Buckeye Rd D1-61 84"X30"

REMOVE SPEED LIMIT 55 R8.6

SPEED LIMIT 55 8.7 R2-1 36"X48"

REMOVE SOUTH 51 R8.7

J4-2 72"X54" BLUE BACKGROUND SOUTH ALTERNATE 51 INTERSTATE 39 8.8

MATCH INTO EXISTING PAVEMENT MARKINGS

B E C A

REMOVE R8.2

8.2 W3-3 36"X36"

J1-1 36"X57" JCT COUNTY AB 8.5

REMOVE JCT COUNTY AB R8.5

SIGN INL MH W TANKS FILLER CAP TANKS AG T

LEGEND

ESTR: EXISTING SIGN TO REMAIN

* MATCH EXISTING LOCATIONS

[A] PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH, YELLOW

[B] PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH, WHITE

[C] PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH, WHITE, 12.5' LINE, 37.5' GAP (UPPER LAYER) AND TEMPORARY PAVEMENT MARKING PAINT 4-INCH, WHITE, 12.5' LINE, 37.5' GAP (LOWER LAYER)

[D] PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH, WHITE

[E] PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH, WHITE, 3' LINE, 9' GAP (UPPER LAYER) AND TEMPORARY PAVEMENT MARKING PAINT 8-INCH, WHITE, 3' LINE, 9' GAP (LOWER LAYER)

[F] PAVEMENT MARKING ARROWS EPOXY TYPE 2, WHITE

[G] PAVEMENT MARKING WORDS EPOXY, WHITE

[H] PAVEMENT MARKING STOP LINE EPOXY 18-INCH, WHITE

[I] PAVEMENT MARKING CROSSWALK EPOXY 6-INCH, WHITE

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	PERMANENT SIGNING AND PAVEMENT MARKINGS	SHEET 38	E

FILE NAME : P:\90S\93\00093254\CADD\SHEETSPLAN\023201-PS PM.DWG
54100173 - 023201-PS PM - PM_08

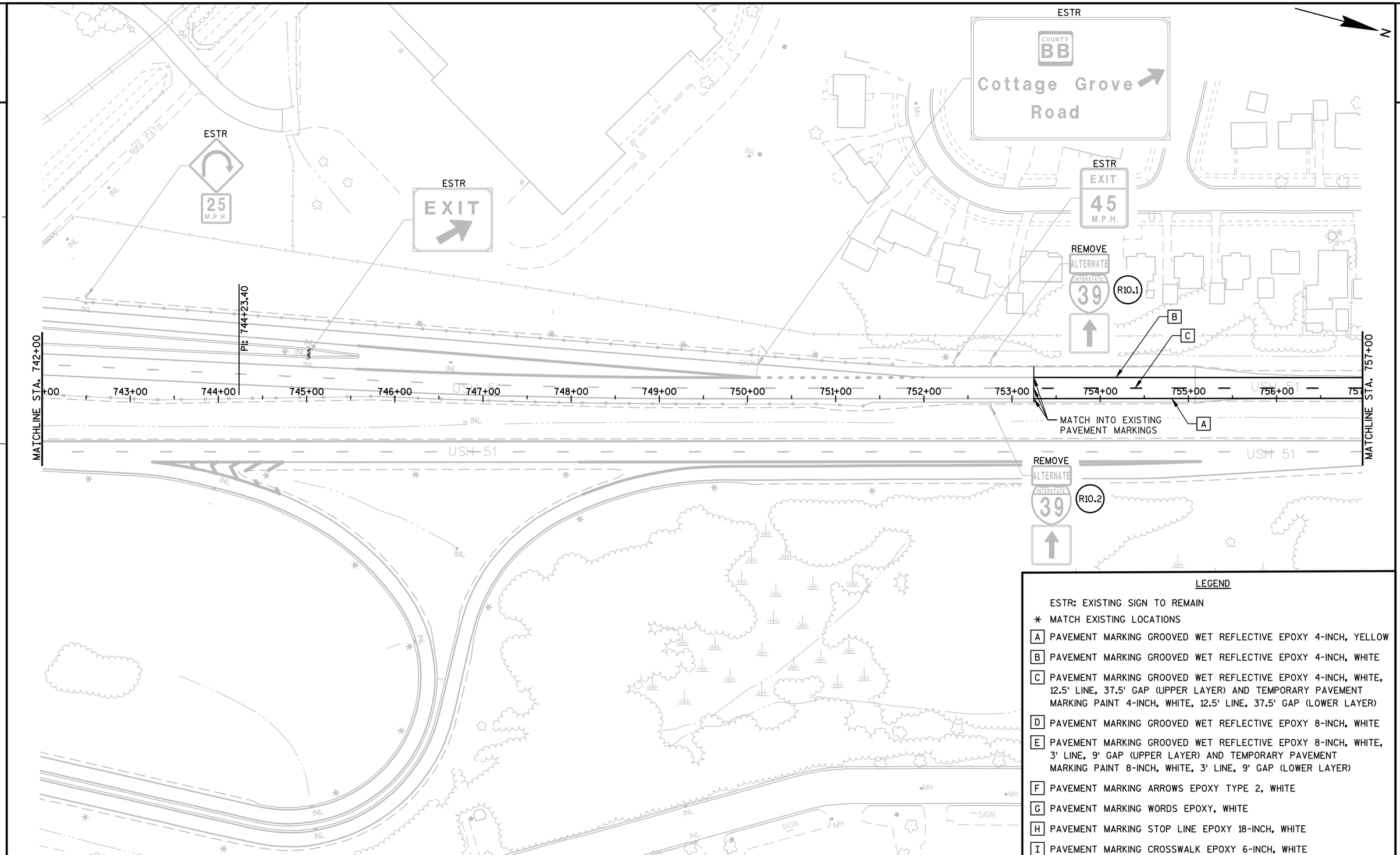
PLOT DATE : 6/30/2016 6:09 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

ESTR
ESTR
ESTR
ESTR
ESTR
ESTR ESTR
ESTR
ESTR
ESTR
ESTR



LEGEND

ESTR: EXISTING SIGN TO REMAIN

* MATCH EXISTING LOCATIONS

[A] PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH, YELLOW

[B] PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH, WHITE

[C] PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH, WHITE, 12.5' LINE, 37.5' GAP (UPPER LAYER) AND TEMPORARY PAVEMENT MARKING PAINT 4-INCH, WHITE, 12.5' LINE, 37.5' GAP (LOWER LAYER)

[D] PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH, WHITE

[E] PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH, WHITE, 3' LINE, 9' GAP (UPPER LAYER) AND TEMPORARY PAVEMENT MARKING PAINT 8-INCH, WHITE, 3' LINE, 9' GAP (LOWER LAYER)

[F] PAVEMENT MARKING ARROWS EPOXY TYPE 2, WHITE

[G] PAVEMENT MARKING WORDS EPOXY, WHITE

[H] PAVEMENT MARKING STOP LINE EPOXY 18-INCH, WHITE

[I] PAVEMENT MARKING CROSSWALK EPOXY 6-INCH, WHITE

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	PERMANENT SIGNING AND PAVEMENT MARKINGS	SHEET 40	E

FILE NAME : P:\90S\93\00093254\CADD\SHEETSPLAN\023201-PS PM.DWG
54100173 - 023201-PS PM - PM_10

PLOT DATE : 6/30/2016 6:09 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

ATHLETIC FIELD

PLAYGROUND

ESTR

BB

Cottage Grove Road

EXIT 1/2 MILE

SPEED LIMIT 55

R2-1

36"X48"

11.1

B

C

A

PI: 765+88.57

REMOVE

SPEED LIMIT 55

R11.1

SIGN

MATCHLINE STA. 757+00

758+00

759+00

760+00

761+00

762+00

763+00

764+00

765+00

766+00

767+00

768+00

769+00

770+00

771+00

MATCHLINE STA. 772+00

USH 51

REMOVE

SPEED LIMIT 55

R11.2

J4-2

72"X54"

BLUE BACKGROUND

SOUTH ALTERNATE

INTERSTATE

51

39

11.2

SIGN

W

WALL

INL

LEGEND

ESTR: EXISTING SIGN TO REMAIN

* MATCH EXISTING LOCATIONS

[A] PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH, YELLOW

[B] PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH, WHITE

[C] PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH, WHITE, 12.5' LINE, 37.5' GAP (UPPER LAYER) AND TEMPORARY PAVEMENT MARKING PAINT 4-INCH, WHITE, 12.5' LINE, 37.5' GAP (LOWER LAYER)

[D] PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH, WHITE

[E] PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH, WHITE, 3' LINE, 9' GAP (UPPER LAYER) AND TEMPORARY PAVEMENT MARKING PAINT 8-INCH, WHITE, 3' LINE, 9' GAP (LOWER LAYER)

[F] PAVEMENT MARKING ARROWS EPOXY TYPE 2, WHITE

[G] PAVEMENT MARKING WORDS EPOXY, WHITE

[H] PAVEMENT MARKING STOP LINE EPOXY 18-INCH, WHITE

[I] PAVEMENT MARKING CROSSWALK EPOXY 6-INCH, WHITE

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	PERMANENT SIGNING AND PAVEMENT MARKINGS	SHEET 41	E

2

REMOVE
R12.2

REMOVE
SOUTH
51
R12.1

12.1
W4-2L
48"X48"

ESTR

EP: 781+52.19

B
C
A
MATCH INTO EXISTING
PAVEMENT MARKINGS

MATCHLINE STA. 772+00

772+00 773+00 774+00 775+00 776+00 777+00 778+00 779+00 780+00 781+00

USH 51

ESTR

12.2
W4-2L
48"X48"

REMOVE
R12.3

LEGEND

ESTR: EXISTING SIGN TO REMAIN

* MATCH EXISTING LOCATIONS

[A] PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH, YELLOW

[B] PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH, WHITE

[C] PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH, WHITE, 12.5' LINE, 37.5' GAP (UPPER LAYER) AND TEMPORARY PAVEMENT MARKING PAINT 4-INCH, WHITE, 12.5' LINE, 37.5' GAP (LOWER LAYER)

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[E] PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH, WHITE, 3' LINE, 9' GAP (UPPER LAYER) AND TEMPORARY PAVEMENT MARKING PAINT 8-INCH, WHITE, 3' LINE, 9' GAP (LOWER LAYER)

[F] PAVEMENT MARKING ARROWS EPOXY TYPE 2, WHITE

[G] PAVEMENT MARKING WORDS EPOXY, WHITE

[H] PAVEMENT MARKING STOP LINE EPOXY 18-INCH, WHITE

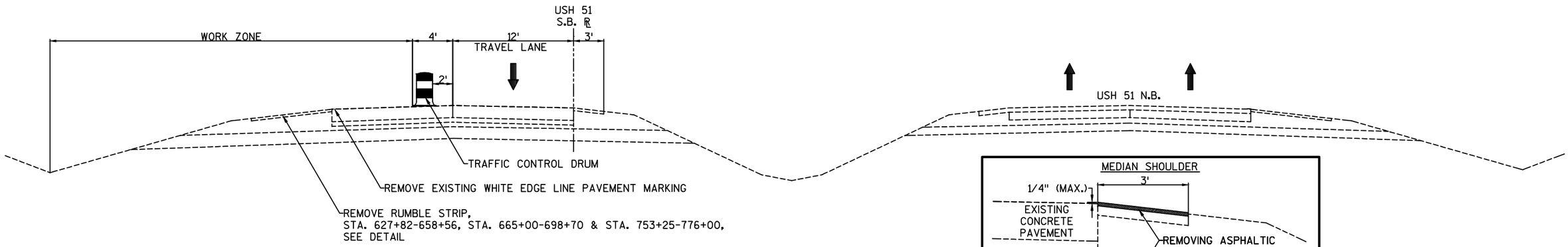
[I] PAVEMENT MARKING CROSSWALK EPOXY 6-INCH, WHITE

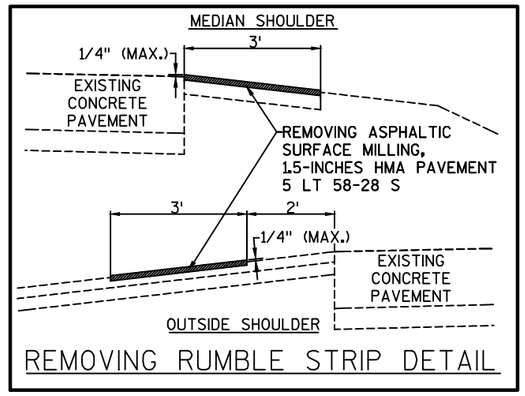
PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	PERMANENT SIGNING AND PAVEMENT MARKINGS	SHEET 42	E

FILE NAME : P:\90S\93\00093254\CADD\SHEETSPLAN\023201-PS PM.DWG
54100173 - 023201-PS PM - PM_12

PLOT DATE : 6/30/2016 6:09 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

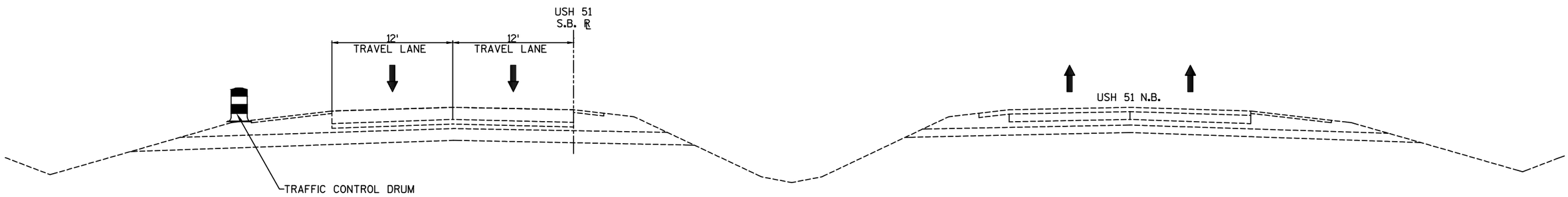




TRAFFIC CONTROL STAGE 1 TYPICAL SECTION - USH 51 SB (LANE CLOSURES, NIGHTTIME TRAVEL HOURS ONLY)
(BEGINNING OF PROJECT TO BUCKEYE ROAD)
(COTTAGE GROVE ROAD TO END OF PROJECT)

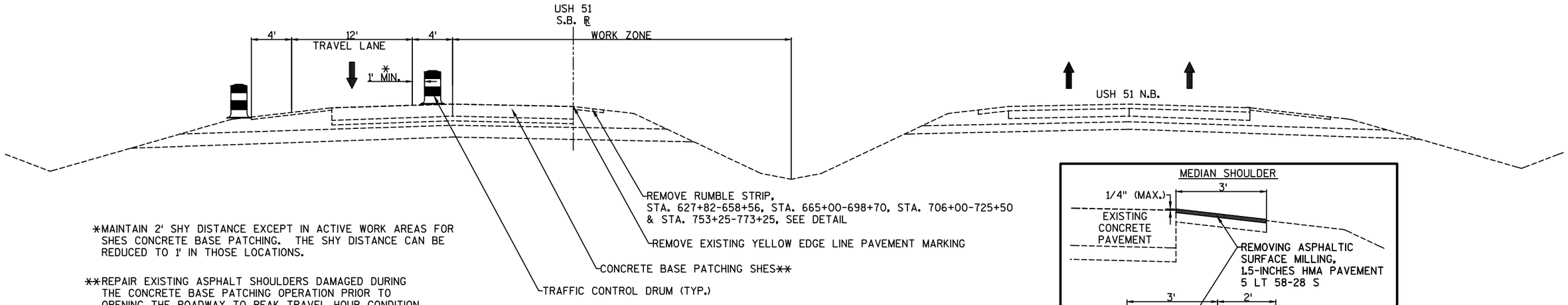
NOTE: SEE S.D.D. "TRAFFIC CONTROL, LANE CLOSURE" FOR LANE CLOSURE TRAFFIC CONTROL REQUIREMENTS.

*TRAFFIC CONTROL IS NOT REQUIRED BETWEEN BUCKEYE ROAD & COTTAGE GROVE ROAD (STAGE 1)



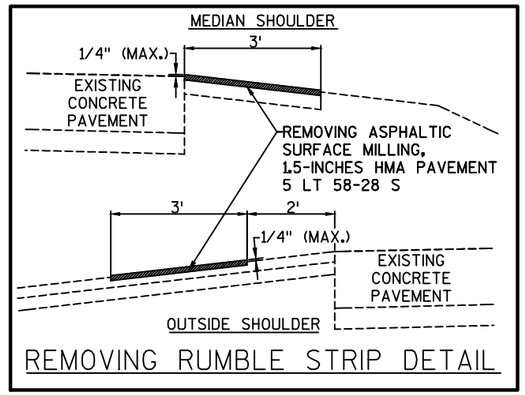
TRAFFIC CONTROL STAGE 1 TYPICAL SECTION - USH 51 SB (PEAK TRAVEL HOURS)
(BEGINNING OF PROJECT TO BUCKEYE ROAD)
(COTTAGE GROVE ROAD TO END OF PROJECT)

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	TRAFFIC CONTROL - STAGE 1 TYPICAL SECTIONS	SHEET 43	E



*MAINTAIN 2' SHY DISTANCE EXCEPT IN ACTIVE WORK AREAS FOR SHES CONCRETE BASE PATCHING. THE SHY DISTANCE CAN BE REDUCED TO 1' IN THOSE LOCATIONS.

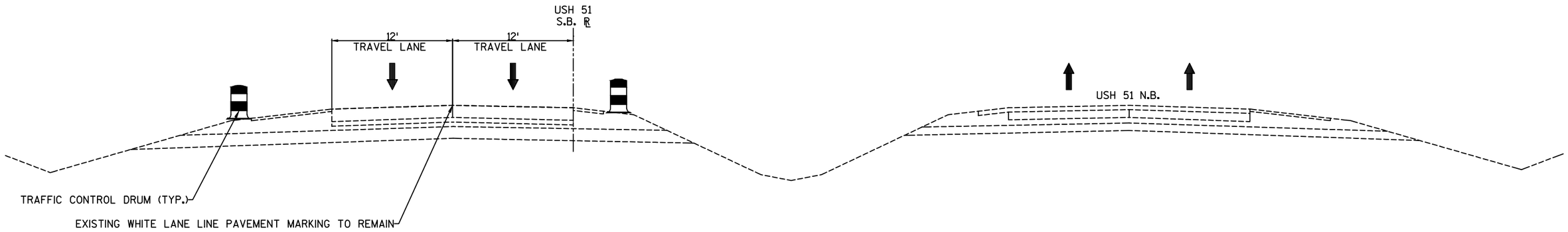
**REPAIR EXISTING ASPHALT SHOULDERS DAMAGED DURING THE CONCRETE BASE PATCHING OPERATION PRIOR TO OPENING THE ROADWAY TO PEAK TRAVEL HOUR CONDITION. INCIDENTAL TO CONCRETE BASE PATCHING SHES ITEM



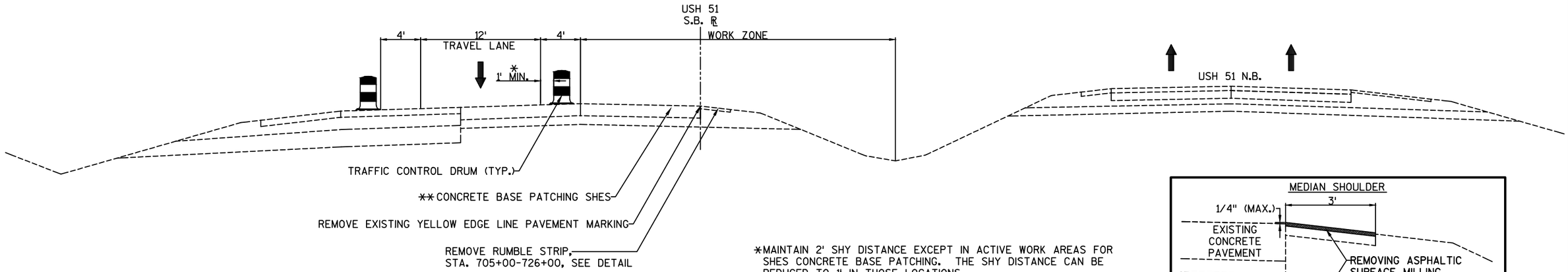
REMOVING RUMBLE STRIP DETAIL

TRAFFIC CONTROL STAGE 2 TYPICAL SECTION - USH 51 SB (LANE CLOSURES, NIGHTTIME TRAVEL HOURS ONLY)
(BEGINNING OF PROJECT TO BUCKEYE ROAD)
(COTTAGE GROVE ROAD TO END OF PROJECT)

NOTE: SEE S.D.D. "TRAFFIC CONTROL, LANE CLOSURE" FOR LANE CLOSURE TRAFFIC CONTROL REQUIREMENTS.

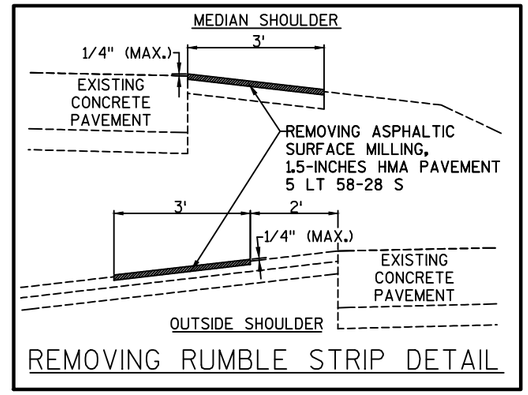


TRAFFIC CONTROL STAGE 2 TYPICAL SECTION - USH 51 SB (PEAK TRAVEL HOURS)
(BEGINNING OF PROJECT TO BUCKEYE ROAD)
(COTTAGE GROVE ROAD TO END OF PROJECT)



*MAINTAIN 2' SHY DISTANCE EXCEPT IN ACTIVE WORK AREAS FOR SHES CONCRETE BASE PATCHING. THE SHY DISTANCE CAN BE REDUCED TO 1' IN THOSE LOCATIONS.

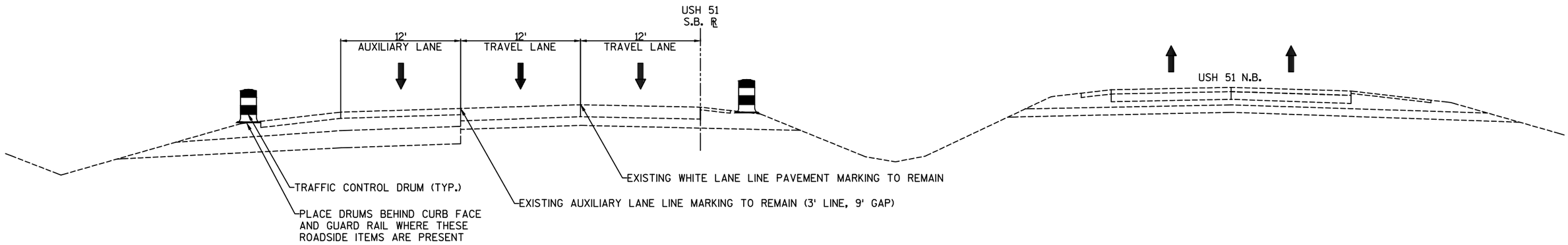
**REPAIR EXISTING ASPHALT SHOULDERS DAMAGED DURING THE CONCRETE BASE PATCHING OPERATION PRIOR TO OPENING THE ROADWAY TO PEAK TRAVEL HOUR CONDITION. INCIDENTAL TO CONCRETE BASE PATCHING SHES ITEM



REMOVING RUMBLE STRIP DETAIL

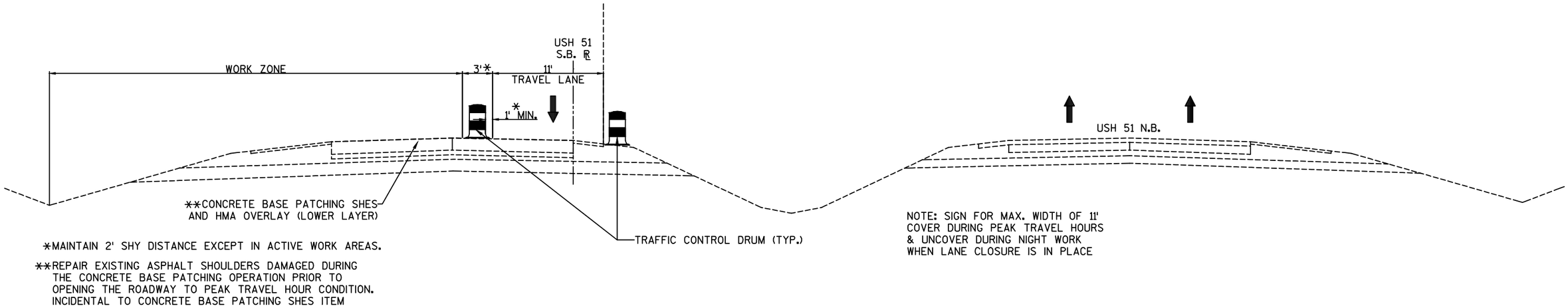
TRAFFIC CONTROL STAGE 2 TYPICAL SECTION - USH 51 SB (LANE CLOSURES, NIGHTTIME TRAVEL HOURS ONLY)
(BUCKEYE ROAD TO COTTAGE GROVE ROAD)

NOTE: SEE S.D.D. "TRAFFIC CONTROL, LANE CLOSURE" FOR LANE CLOSURE TRAFFIC CONTROL REQUIREMENTS.



TRAFFIC CONTROL STAGE 2 TYPICAL SECTION - USH 51 SB (PEAK TRAVEL HOURS)
(BUCKEYE ROAD TO COTTAGE GROVE ROAD)

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	TRAFFIC CONTROL - STAGE 2 TYPICAL SECTIONS	SHEET 45	E

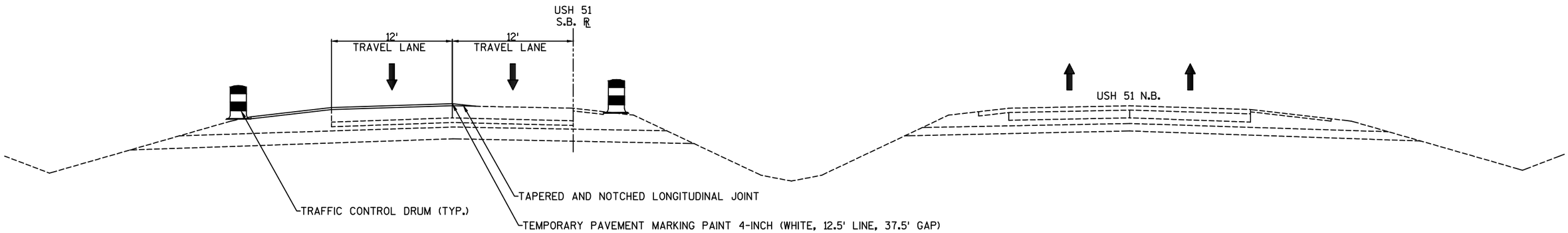


*MAINTAIN 2' SHY DISTANCE EXCEPT IN ACTIVE WORK AREAS.

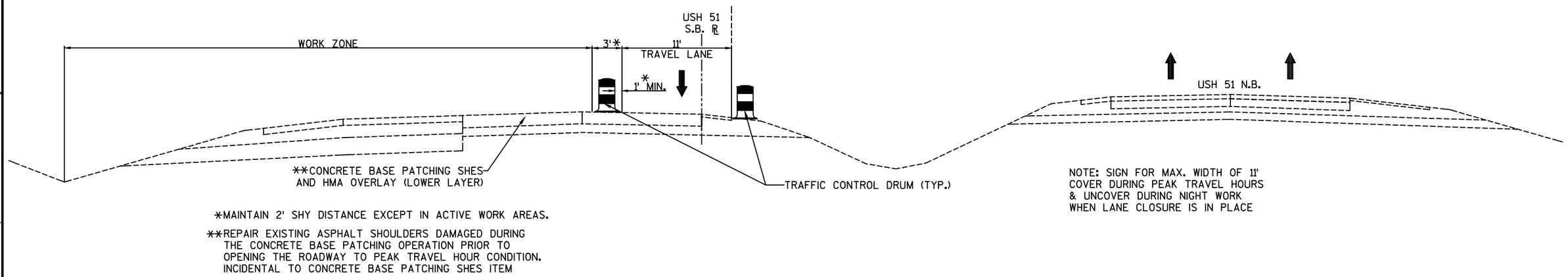
**REPAIR EXISTING ASPHALT SHOULDERS DAMAGED DURING THE CONCRETE BASE PATCHING OPERATION PRIOR TO OPENING THE ROADWAY TO PEAK TRAVEL HOUR CONDITION. INCIDENTAL TO CONCRETE BASE PATCHING SHES ITEM

TRAFFIC CONTROL STAGE 3 TYPICAL SECTION - USH 51 SB (LANE CLOSURES, NIGHTTIME TRAVEL HOURS ONLY)
(BEGINNING OF PROJECT TO BUCKEYE ROAD)
(COTTAGE GROVE ROAD TO END OF PROJECT)

NOTE: SEE S.D.D. "TRAFFIC CONTROL, LANE CLOSURE" FOR LANE CLOSURE TRAFFIC CONTROL REQUIREMENTS.



TRAFFIC CONTROL STAGE 3 TYPICAL SECTION - USH 51 SB (PEAK TRAVEL HOURS)
(BEGINNING OF PROJECT TO BUCKEYE ROAD)
(COTTAGE GROVE ROAD TO END OF PROJECT)

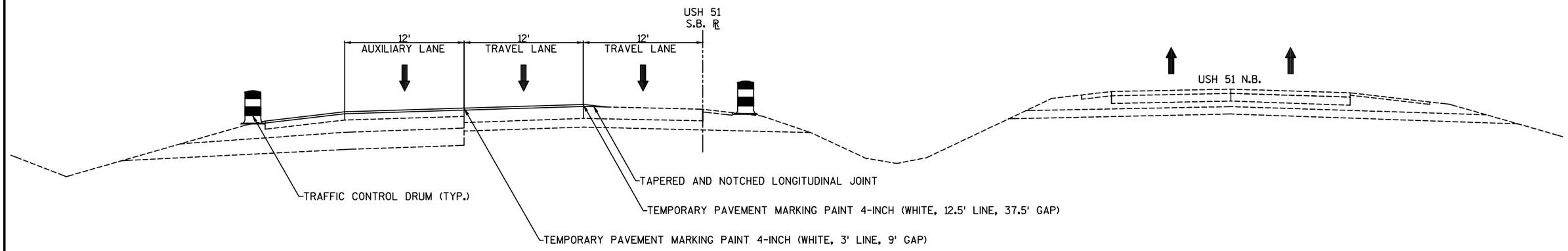


*MAINTAIN 2' SHY DISTANCE EXCEPT IN ACTIVE WORK AREAS.

**REPAIR EXISTING ASPHALT SHOULDERS DAMAGED DURING THE CONCRETE BASE PATCHING OPERATION PRIOR TO OPENING THE ROADWAY TO PEAK TRAVEL HOUR CONDITION. INCIDENTAL TO CONCRETE BASE PATCHING SHES ITEM

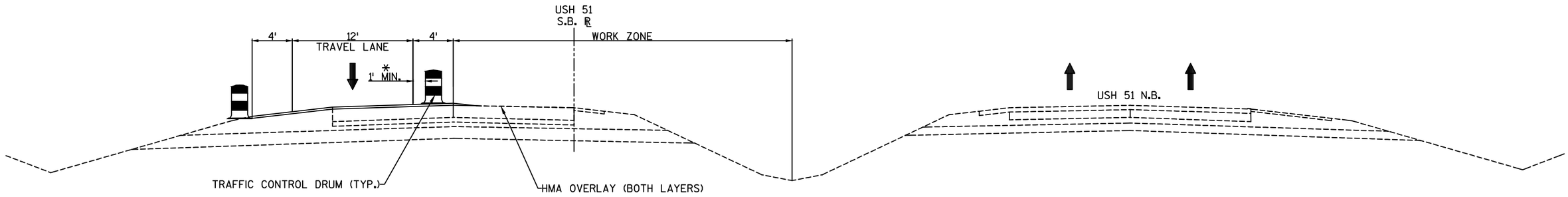
TRAFFIC CONTROL STAGE 3 TYPICAL SECTION - USH 51 SB (LANE CLOSURES, NIGHTTIME TRAVEL HOURS ONLY)
(BUCKEYE ROAD TO COTTAGE GROVE ROAD)

NOTE: SEE S.D.D. "TRAFFIC CONTROL, LANE CLOSURE" FOR LANE CLOSURE TRAFFIC CONTROL REQUIREMENTS.



TRAFFIC CONTROL STAGE 3 TYPICAL SECTION - USH 51 SB (PEAK TRAVEL HOURS)
(BUCKEYE ROAD TO COTTAGE GROVE ROAD)

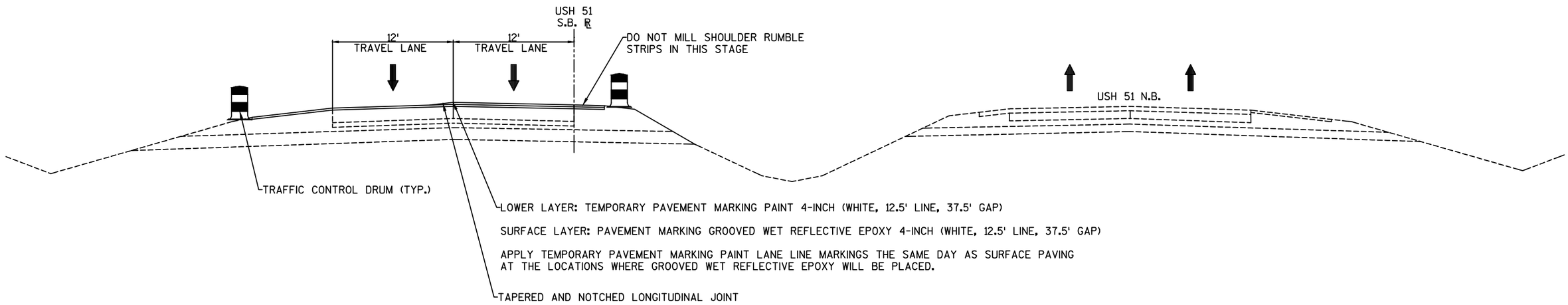
PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	TRAFFIC CONTROL - STAGE 3 TYPICAL SECTIONS	SHEET 47	E



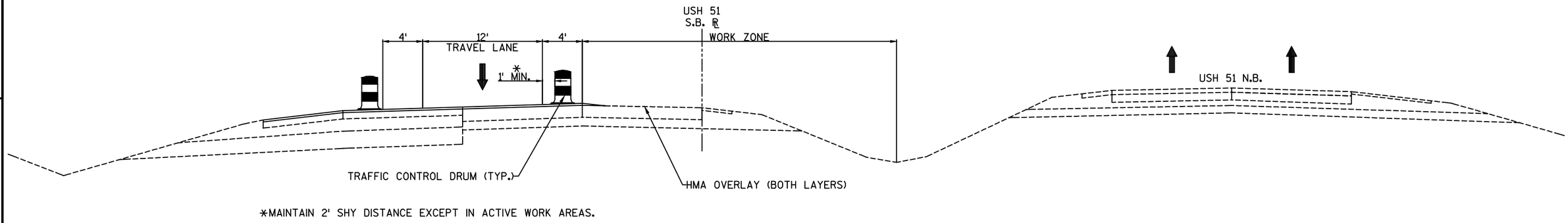
*MAINTAIN 2' SHY DISTANCE EXCEPT IN ACTIVE WORK AREAS.

TRAFFIC CONTROL STAGE 4 TYPICAL SECTION - USH 51 SB (LANE CLOSURES, NIGHTTIME TRAVEL HOURS ONLY)
(BEGINNING OF PROJECT TO BUCKEYE ROAD)
(COTTAGE GROVE ROAD TO END OF PROJECT)

NOTE: SEE S.D.D. "TRAFFIC CONTROL, LANE CLOSURE" FOR LANE CLOSURE TRAFFIC CONTROL REQUIREMENTS.



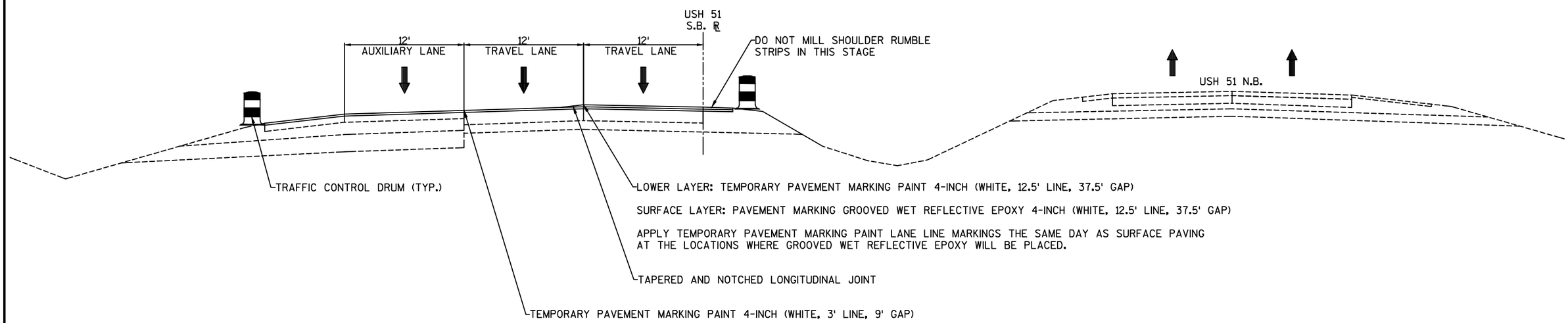
TRAFFIC CONTROL STAGE 4 TYPICAL SECTION - USH 51 SB (PEAK TRAVEL HOURS)
(BEGINNING OF PROJECT TO BUCKEYE ROAD)
(COTTAGE GROVE ROAD TO END OF PROJECT)



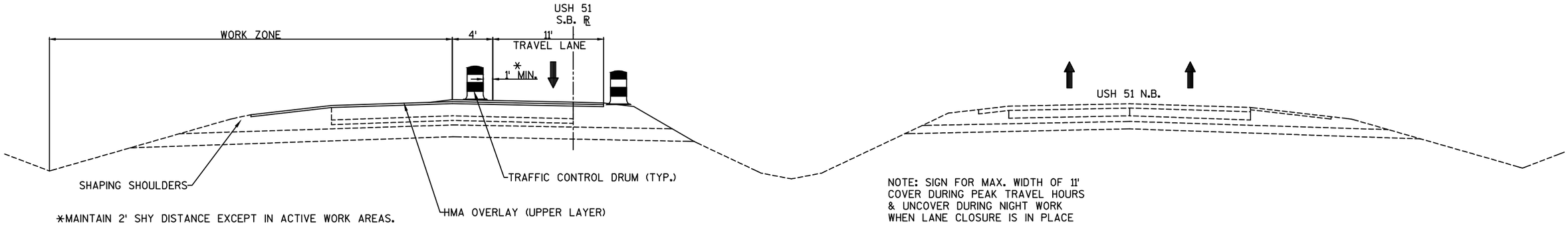
*MAINTAIN 2' SHY DISTANCE EXCEPT IN ACTIVE WORK AREAS.

TRAFFIC CONTROL STAGE 4 TYPICAL SECTION - USH 51 SB (LANE CLOSURES, NIGHTTIME TRAVEL HOURS ONLY)
(BUCKEYE ROAD TO COTTAGE GROVE ROAD)

NOTE: SEE S.D.D. "TRAFFIC CONTROL, LANE CLOSURE" FOR LANE CLOSURE TRAFFIC CONTROL REQUIREMENTS.



TRAFFIC CONTROL STAGE 4 TYPICAL SECTION - USH 51 SB (PEAK TRAVEL HOURS)
(BUCKEYE ROAD TO COTTAGE GROVE ROAD)

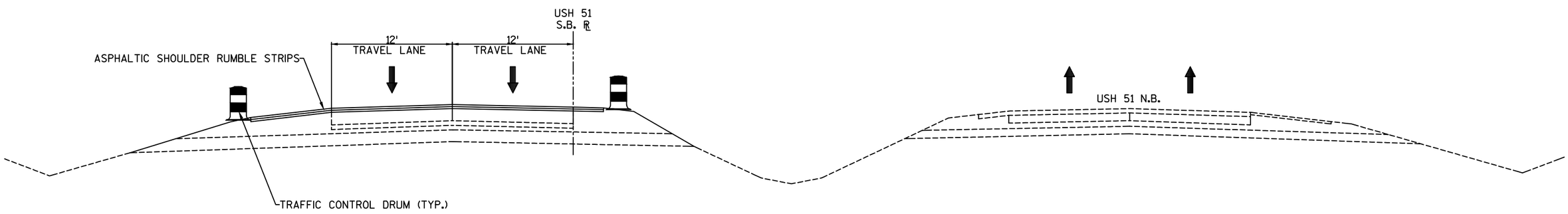


*MAINTAIN 2' SHY DISTANCE EXCEPT IN ACTIVE WORK AREAS.

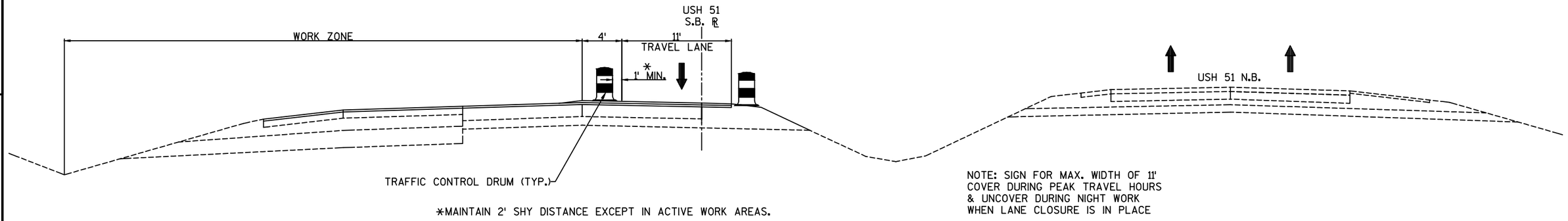
NOTE: SIGN FOR MAX. WIDTH OF 11'
COVER DURING PEAK TRAVEL HOURS
& UNCOVER DURING NIGHT WORK
WHEN LANE CLOSURE IS IN PLACE

TRAFFIC CONTROL STAGE 5 TYPICAL SECTION - USH 51 SB (LANE CLOSURES, NIGHTTIME TRAVEL HOURS ONLY)
(BEGINNING OF PROJECT TO BUCKEYE ROAD)
(COTTAGE GROVE ROAD TO END OF PROJECT)

NOTE: SEE S.D.D. "TRAFFIC CONTROL, LANE CLOSURE" FOR LANE CLOSURE TRAFFIC CONTROL REQUIREMENTS.



TRAFFIC CONTROL STAGE 5 TYPICAL SECTION - USH 51 SB (PEAK TRAVEL HOURS)
(BEGINNING OF PROJECT TO BUCKEYE ROAD)
(COTTAGE GROVE ROAD TO END OF PROJECT)

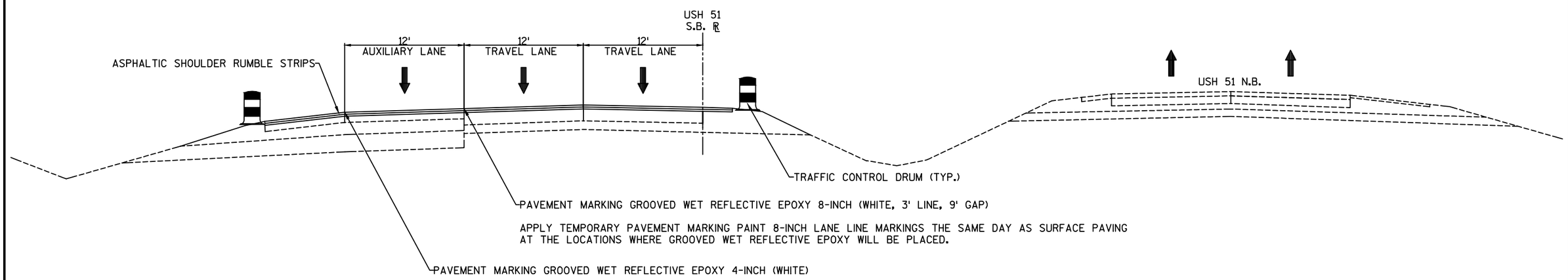


*MAINTAIN 2' SHY DISTANCE EXCEPT IN ACTIVE WORK AREAS.

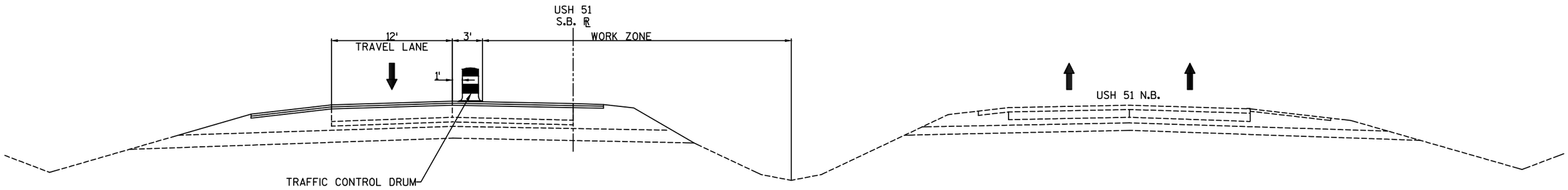
NOTE: SIGN FOR MAX. WIDTH OF 11'
COVER DURING PEAK TRAVEL HOURS
& UNCOVER DURING NIGHT WORK
WHEN LANE CLOSURE IS IN PLACE

TRAFFIC CONTROL STAGE 5 TYPICAL SECTION - USH 51 SB (LANE CLOSURES, NIGHTTIME TRAVEL HOURS ONLY)
(BUCKEYE ROAD TO COTTAGE GROVE ROAD)

NOTE: SEE S.D.D. "TRAFFIC CONTROL, LANE CLOSURE" FOR LANE CLOSURE TRAFFIC CONTROL REQUIREMENTS.

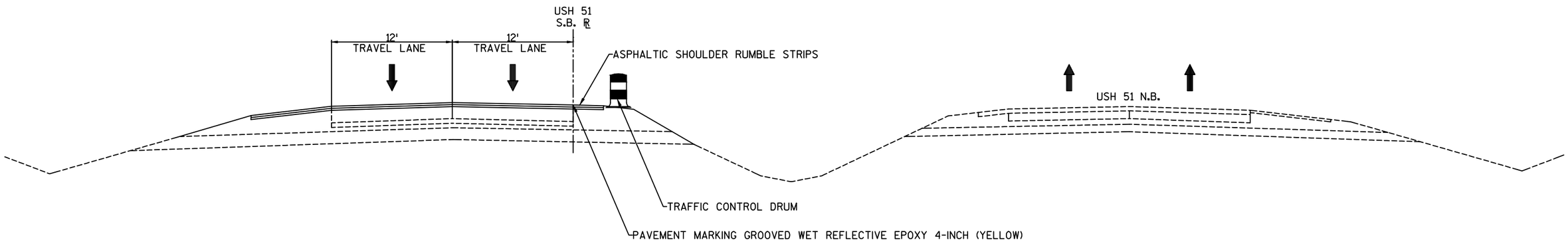


TRAFFIC CONTROL STAGE 5 TYPICAL SECTION - USH 51 SB (PEAK TRAVEL HOURS)
(BUCKEYE ROAD TO COTTAGE GROVE ROAD)



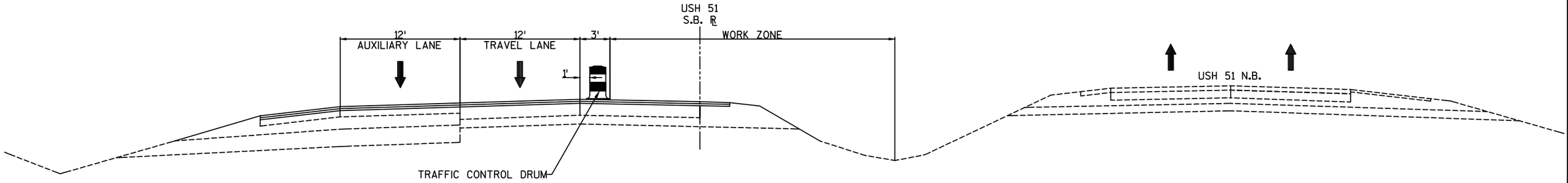
TRAFFIC CONTROL STAGE 6 TYPICAL SECTION - USH 51 SB (LANE CLOSURES, NIGHTTIME TRAVEL HOURS ONLY)
(BEGINNING OF PROJECT TO BUCKEYE ROAD)
(COTTAGE GROVE ROAD TO END OF PROJECT)

NOTE: SEE S.D.D. "TRAFFIC CONTROL, LANE CLOSURE" FOR LANE CLOSURE TRAFFIC CONTROL REQUIREMENTS.



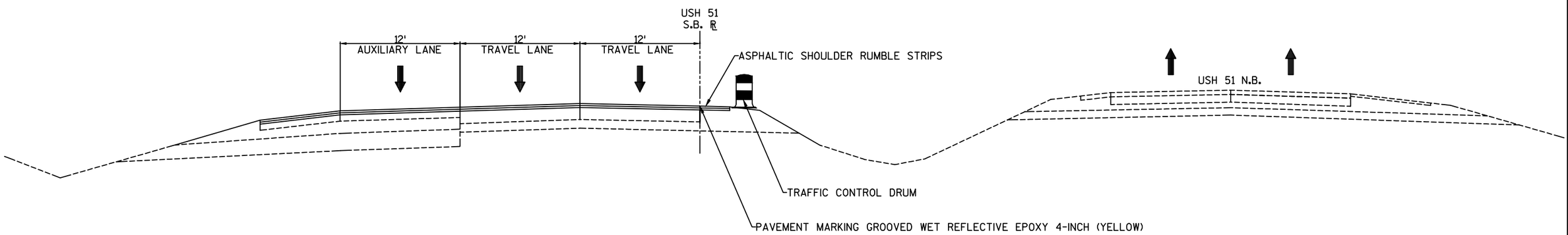
TRAFFIC CONTROL STAGE 6 TYPICAL SECTION - USH 51 SB (PEAK TRAVEL HOURS)
(BEGINNING OF PROJECT TO BUCKEYE ROAD)
(COTTAGE GROVE ROAD TO END OF PROJECT)

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	TRAFFIC CONTROL - STAGE 6 TYPICAL SECTIONS	SHEET 52	E



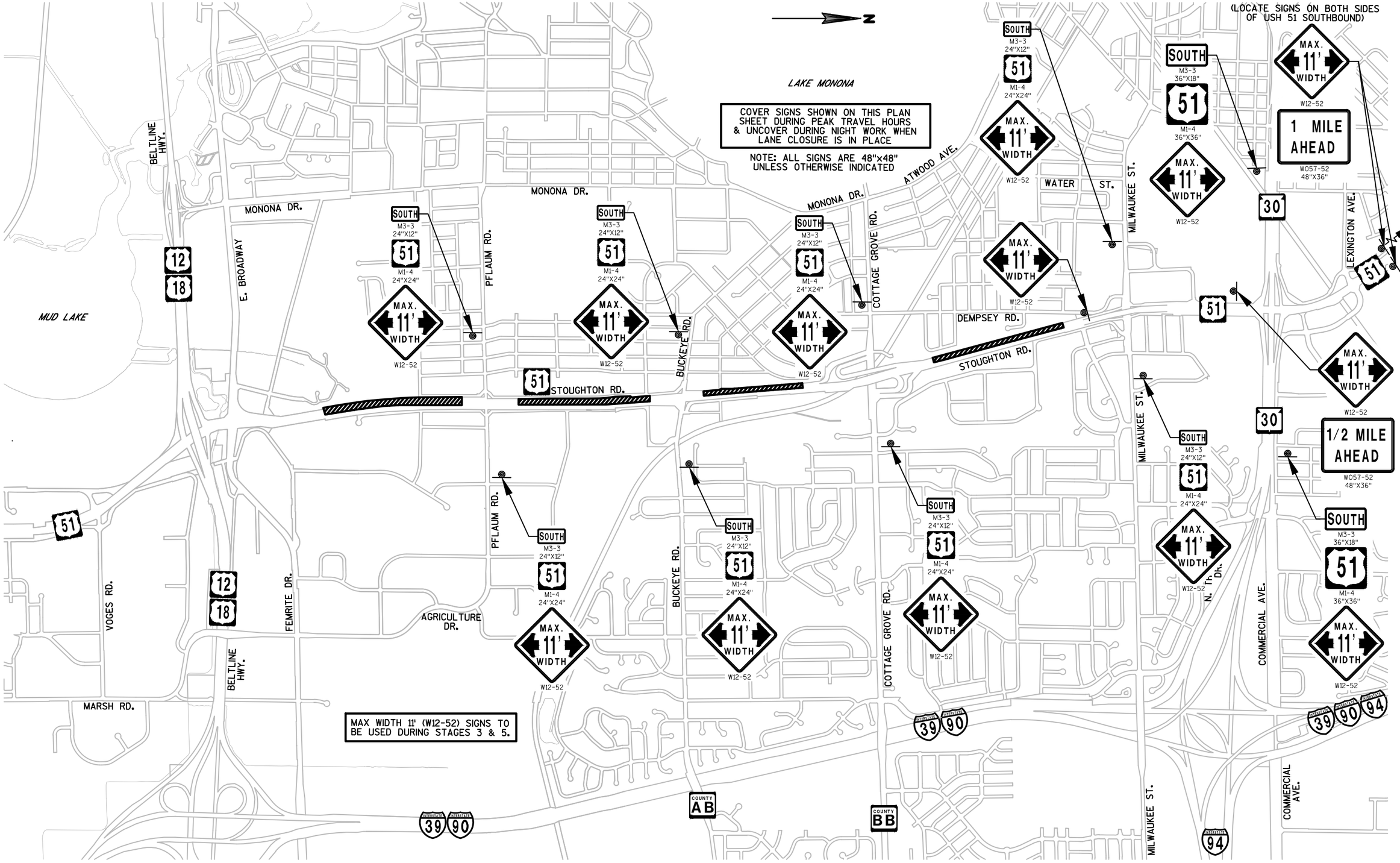
TRAFFIC CONTROL STAGE 6 TYPICAL SECTION - USH 51 SB (LANE CLOSURES, NIGHTTIME TRAVEL HOURS ONLY)
(BUCKEYE ROAD TO COTTAGE GROVE ROAD)

NOTE: SEE S.D.D. "TRAFFIC CONTROL, LANE CLOSURE" FOR LANE CLOSURE TRAFFIC CONTROL REQUIREMENTS.



TRAFFIC CONTROL STAGE 6 TYPICAL SECTION - USH 51 SB (PEAK TRAVEL HOURS)
(BUCKEYE ROAD TO COTTAGE GROVE ROAD)

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	TRAFFIC CONTROL - STAGE 6 TYPICAL SECTIONS	SHEET 53	E



PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	MAXIMUM WIDTH SIGNING PLAN	SHEET 54	E

FILE NAME : P:\90S\93\00093254\CADD\SHEETSPLAN\025001-TC_MAX WIDTH OVERVIEW.DWG
54100173 - 025001-TC_MAX WIDTH OVERVIEW - PROJECT OVERVIEW

PLOT DATE : 6/20/2016 7:36 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 0.024513

WISDOT/CADDS SHEET 42

FOR WORK BETWEEN PFLAUM ROAD AND BUCKEYE ROAD, CLOSE THE SOUTHBOUND LANE PRIOR TO THE COTTAGE GROVE ROAD ENTRANCE RAMP IN ACCORDANCE TO S.D.D. "TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE." (STAGES 3 & 5)

NOTE: ALL SIGNS ARE 48"X48" UNLESS OTHERWISE INDICATED

N

ROAD WORK AHEAD
W20-1-A

END ROAD WORK
G20-2A
48"X24"

LANE CLOSED
R11-2L
48"X30"

BEGIN RIGHT TURN LANE
R3-20-R
24"X36"

LANE CLOSED
R11-2L
48"X30"

LANE CLOSED
R11-2L
48"X30"

100' (TYP.)

25' (TYP.)

100' TAPER

25' (TYP.)

100' (TYP.)

656+00 657+00 658+00 659+00 660+00 661+00 662+00 663+00 664+00 665+00 666+00 667+00 668+00 669+00 670+00

25'

LANE CLOSED
R11-2L
48"X30"

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1-A

SERVICE LN
PFLAUM RD
S STOUGHTON RD SRV RD
USH 51
RAMP
FILLER CAP
TOWER
SIGN
FLAG
A/C
CANOPY
SUBST
MH
INL
W

LEGEND

- DRUM WITH/WITHOUT WARNING LIGHT TYPE C
- TYPE III BARRICADE WITH/WITHOUT SIGN
- POST MOUNTED SIGN/TEMPORARY MOVABLE SUPPORT MOUNTED SIGN
- ARROW BOARD
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- TRAFFIC FLOW ARROW
- WORK ZONE OR CLOSED LANE

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	TRAFFIC CONTROL - STAGES 1, 3, & 5 (NIGHTTIME TRAVEL HOURS)	SHEET 55	E

2

FOR WORK BETWEEN PFLAUM ROAD AND BUCKEYE ROAD, CLOSE THE SOUTHBOUND LANE PRIOR TO THE COTTAGE GROVE ROAD ENTRANCE RAMP IN ACCORDANCE TO S.D.D. "TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE." (STAGES 3 & 5)

N

NOTE: ALL SIGNS ARE 48"X48" UNLESS OTHERWISE INDICATED

ROAD WORK AHEAD
W20-1-A

END ROAD WORK
G20-2A
48"X24"

LANE CLOSED
R11-2L
48"X30"

Pl: 697+49.82

100' (TYP.)

697+00 698+00 699+00 700+00 701+00 702+00 703+00 704+00 705+00 706+00 707+00 708+00 709+00 710+00 711+00

25' (TYP.)

100' TAPER

BEGIN RIGHT TURN LANE
R3-20-R
24"X36"

LANE CLOSED
R11-2L
48"X30"

25' (TYP.)

100' (TYP.)

LANE CLOSED
R11-2L
48"X30"

BUCKEYE RD

USH 51

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1-A

LEGEND

- DRUM WITH/WITHOUT WARNING LIGHT TYPE C
- TYPE III BARRICADE WITH/WITHOUT SIGN
- POST MOUNTED SIGN/TEMPORARY MOVABLE SUPPORT MOUNTED SIGN
- ARROW BOARD
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- TRAFFIC FLOW ARROW
- WORK ZONE OR CLOSED LANE

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	TRAFFIC CONTROL - STAGES 1, 3, & 5 (NIGHTTIME TRAVEL HOURS)	SHEET 56	E

FILE NAME : P:\90S\93\00093254\CADD\SHEETSPLAN\025001-TC_STAGE 1.DWG
54100173 - 025001-TC_STAGE 1 - STAGE 1_02

PLOT DATE : 6/20/2016 7:37 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

2

2

FOR WORK BETWEEN PFLAUM ROAD AND BUCKEYE ROAD, CLOSE THE SOUTHBOUND LANE PRIOR TO THE COTTAGE GROVE ROAD ENTRANCE RAMP IN ACCORDANCE TO S.D.D. "TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE." (STAGES 3 & 5)

N

NOTE: ALL SIGNS ARE 48"X48" UNLESS OTHERWISE INDICATED

LANE CLOSED
R11-2L
48"X30"

RAMP CLOSED

100' (TYP.)

714+00 715+00 716+00 717+00 718+00 719+00 720+00 721+00 722+00 723+00 724+00 725+00 726+00 727+00 728+00 729

MATCHLINE STA. 729+00

INL

USH 51

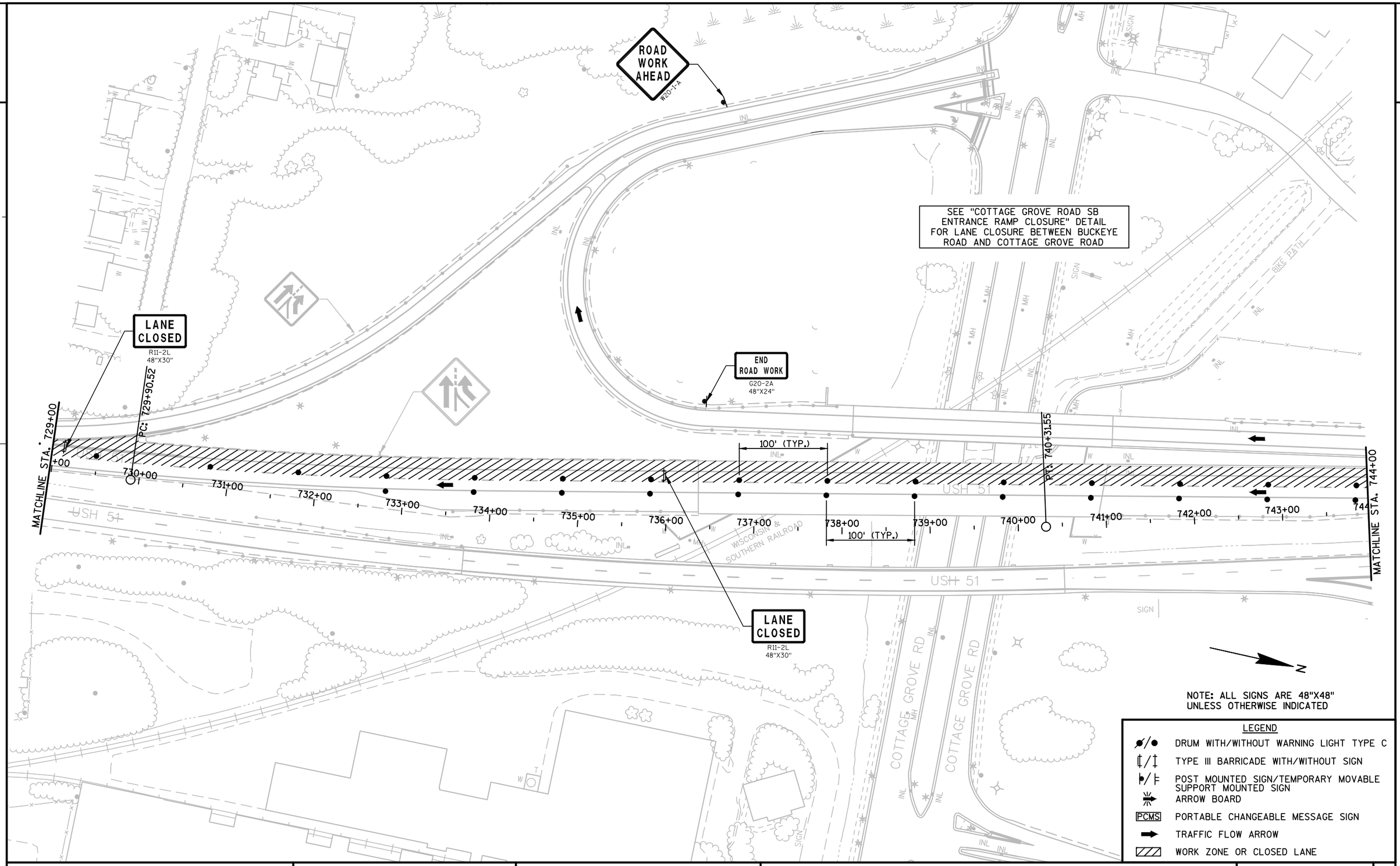
SIGN
MH
SIGN
SIGN
FLAG
INL
INL
W
INL
SIGN
A/C
MH
AG
TANKS
A/C
FILLER CAP
TANKS

LEGEND

- DRUM WITH/WITHOUT WARNING LIGHT TYPE C
- TYPE III BARRICADE WITH/WITHOUT SIGN
- POST MOUNTED SIGN/TEMPORARY MOVABLE SUPPORT MOUNTED SIGN
- ARROW BOARD
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN
- TRAFFIC FLOW ARROW
- WORK ZONE OR CLOSED LANE

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	TRAFFIC CONTROL - STAGES 3 & 5 (NIGHTTIME TRAVEL HOURS)	SHEET 57	E

2



NOTE: ALL SIGNS ARE 48"X48" UNLESS OTHERWISE INDICATED

LEGEND

- DRUM WITH/WITHOUT WARNING LIGHT TYPE C
- TYPE III BARRICADE WITH/WITHOUT SIGN
- POST MOUNTED SIGN/TEMPORARY MOVABLE SUPPORT MOUNTED SIGN
- ARROW BOARD
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- TRAFFIC FLOW ARROW
- WORK ZONE OR CLOSED LANE

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	TRAFFIC CONTROL - STAGES 3 & 5 (NIGHTTIME TRAVEL HOURS)	SHEET 58	E

2

2

N

NOTE: ALL SIGNS ARE 48"X48"
UNLESS OTHERWISE INDICATED

LANE CLOSED
R11-2L
48"X30"

EXIT
W13-2
60"X48"

LANE CLOSED
R11-2L
48"X30"

25' (TYP.)

25' (TYP.)

100' (TYP.)

100' (TYP.)

MATCHLINE STA. 744+00

PI: 744+23.40

744+00 745+00 746+00 747+00 748+00 749+00 750+00 751+00 752+00 753+00 754+00 755+00 756+00 757+00 758+00 759+00

USH 51

USH 51

INL

MH

FOUND

SIGN

LEGEND

- DRUM WITH/WITHOUT WARNING LIGHT TYPE C
- TYPE III BARRICADE WITH/WITHOUT SIGN
- POST MOUNTED SIGN/TEMPORARY MOVABLE SUPPORT MOUNTED SIGN
- ARROW BOARD
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- TRAFFIC FLOW ARROW
- WORK ZONE OR CLOSED LANE

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	TRAFFIC CONTROL - STAGES 1, 3, & 5 (NIGHTTIME TRAVEL HOURS)	SHEET 59	E

2

TRAFFIC CONTROL DETAIL FOR LANE CLOSURE BETWEEN COTTAGE GROVE ROAD AND MILWAUKEE STREET

2

N

NOTE: ALL SIGNS ARE 48"X48" UNLESS OTHERWISE INDICATED

CLOSE RAMP FOR WORK BETWEEN MILWAUKEE STREET AND COTTAGE GROVE ROAD, STAGES 3 & 5.

LANE CLOSED
R11-2L
48"X30"

TRAFFIC CONTROL COVERING SIGNS TYPE II

W01-4-L

LANE CLOSED
R11-2L
48"X30"

EP: 781+52.19

100' (TYP.)

50' (TYP.)

50' (TYP.)

50' (TYP.)

711+00 712+00 713+00 714+00 715+00 716+00 717+00 718+00 719+00 780+00 781+00

100' (TYP.)

500' BUFFER FROM PROJECT LIMITS

200' SHIFTING TAPER

USH 51

USH 51

MATCHLINE 'A'

LANE CLOSED
R11-2L
48"X30"

TRAFFIC CONTROL COVERING SIGNS TYPE II

THIS LANE ENDS

TRAFFIC CONTROL COVERING SIGNS TYPE II

LEGEND

- DRUM WITH/WITHOUT WARNING LIGHT TYPE C
- TYPE III BARRICADE WITH/WITHOUT SIGN
- POST MOUNTED SIGN/TEMPORARY MOVABLE SUPPORT MOUNTED SIGN
- ARROW BOARD
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- TRAFFIC FLOW ARROW
- WORK ZONE OR CLOSED LANE

NOTE: TAPER LINES ARE SHOWN FOR INFORMATION ONLY. TEMPORARY PAVEMENT MARKINGS ARE NOT REQUIRED.

NOTE: TURN OR COVER ALL SIGNS THAT ARE NOT APPLICABLE FOR PEAK TRAVEL HOUR TIMES WITH NO TEMPORARY LANE OR RAMP CLOSURES.

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	TRAFFIC CONTROL - STAGES 1, 3, & 5 (NIGHTTIME TRAVEL HOURS)	SHEET 60	E

TRAFFIC CONTROL DETAIL FOR LANE CLOSURE BETWEEN COTTAGE GROVE ROAD AND MILWAUKEE STREET

NOTE: ALL SIGNS ARE 48"X48" UNLESS OTHERWISE INDICATED

CLOSE RAMP FOR WORK BETWEEN MILWAUKEE STREET AND COTTAGE GROVE ROAD, STAGES 3 & 5.

SPEED LIMIT 55

COVER WITH SIGN

SPEED LIMIT 45

R2-1
36"X48"

SEE "MILWAUKEE STREET SB ENTRANCE RAMP CLOSURE" DETAIL

525' TO ARROW BOARD

50' (TYP.)

50' (TYP.)

50' (TYP.)

W04-2-R

5 DRUMS SPACED AT 10' INTERVALS IN FRONT OF ARROW BOARD

MATCHLINE 'A'

600' SHIFTING TAPER

LANE CLOSED

R11-2L
48"X30"

SPEED LIMIT 55

COVER WITH SIGN

SPEED LIMIT 45

R2-1
36"X48"

1,500' BUFFER

MATCHLINE 'B'

USH 51

NOTE: TAPER LINES ARE SHOWN FOR INFORMATION ONLY. TEMPORARY PAVEMENT MARKINGS ARE NOT REQUIRED.

NOTE: TURN OR COVER ALL SIGNS THAT ARE NOT APPLICABLE FOR PEAK TRAVEL HOUR TIMES WITH NO TEMPORARY LANE OR RAMP CLOSURES.

LEGEND

- DRUM WITH/WITHOUT WARNING LIGHT TYPE C
- TYPE III BARRICADE WITH/WITHOUT SIGN
- POST MOUNTED SIGN/TEMPORARY MOVABLE SUPPORT MOUNTED SIGN
- ARROW BOARD
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- TRAFFIC FLOW ARROW
- WORK ZONE OR CLOSED LANE

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	TRAFFIC CONTROL - STAGES 1, 3, & 5 (NIGHTTIME TRAVEL HOURS)	SHEET 61	E

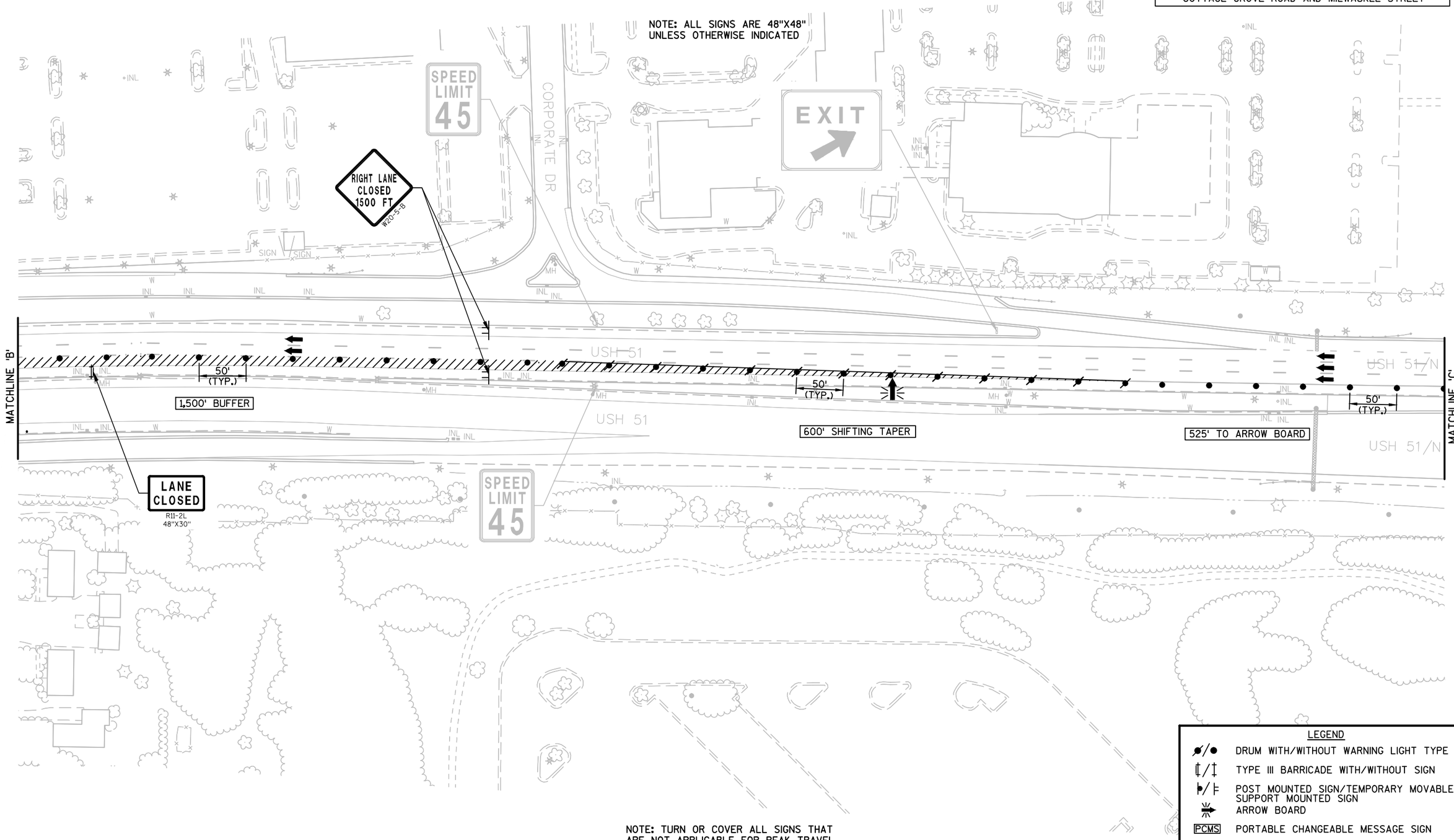
FILE NAME : P:\90S\93\00093254\CADD\SHEETSPLAN\025001-TC_STAGE 1.DWG
54100173 - 025001-TC_STAGE 1 - STAGE 1_07

PLOT DATE : 6/20/2016 7:39 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1:100_XREF

TRAFFIC CONTROL DETAIL FOR LANE CLOSURE BETWEEN COTTAGE GROVE ROAD AND MILWAUKEE STREET

N

NOTE: ALL SIGNS ARE 48"X48" UNLESS OTHERWISE INDICATED



NOTE: TAPER LINES ARE SHOWN FOR INFORMATION ONLY. TEMPORARY PAVEMENT MARKINGS ARE NOT REQUIRED.

NOTE: TURN OR COVER ALL SIGNS THAT ARE NOT APPLICABLE FOR PEAK TRAVEL HOUR TIMES WITH NO TEMPORARY LANE OR RAMP CLOSURES.

LEGEND

- DRUM WITH/WITHOUT WARNING LIGHT TYPE C
- TYPE III BARRICADE WITH/WITHOUT SIGN
- POST MOUNTED SIGN/TEMPORARY MOVABLE SUPPORT MOUNTED SIGN
- ARROW BOARD
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- TRAFFIC FLOW ARROW
- WORK ZONE OR CLOSED LANE

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	TRAFFIC CONTROL - STAGES 1, 3, & 5 (NIGHTTIME TRAVEL HOURS)	SHEET 62	E

FILE NAME : P:\90S\93\00093254\CADD\SHEETSPLAN\025001-TC_STAGE 1.DWG
54100173 - 025001-TC_STAGE 1 - STAGE 1_08

PLOT DATE : 6/20/2016 7:39 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1:100_XREF

TRAFFIC CONTROL DETAIL FOR LANE CLOSURE BETWEEN COTTAGE GROVE ROAD AND MILWAUKEE STREET

NOTE: ALL SIGNS ARE 48"X48" UNLESS OTHERWISE INDICATED

N

ROAD WORK AHEAD W20-1-A

W04-2-L

SPEED LIMIT 45

ROAD WORK 1 MILE W20-1-F

LEFT LANE CLOSED 2000 FT W20-55-B (MOD)

LEFT LANE CLOSED 3/4 MILE W20-55-G (MOD)

1,350'

1,000'

2,000'

50' (TYP.)

525' TO ARROW BOARD

5 DRUMS SPACED AT 10' INTERVALS IN FRONT OF ARROW BOARD

MATCHLINE 'C'

STOUGHTON RD

STH 30

USH 51/N

NAKOOSA TR

NOTE: TURN OR COVER ALL SIGNS THAT ARE NOT APPLICABLE FOR PEAK TRAVEL HOUR TIMES WITH NO TEMPORARY LANE OR RAMP CLOSURES.

LEGEND

- DRUM WITH/WITHOUT WARNING LIGHT TYPE C
- TYPE III BARRICADE WITH/WITHOUT SIGN
- POST MOUNTED SIGN/TEMPORARY MOVABLE SUPPORT MOUNTED SIGN
- ARROW BOARD
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- TRAFFIC FLOW ARROW
- WORK ZONE OR CLOSED LANE

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	TRAFFIC CONTROL - STAGES 1, 3, & 5 (NIGHTTIME TRAVEL HOURS)	SHEET 63	E

FILE NAME : P:\90S\93\00093254\CADD\SHEETSPLAN\025001-TC_STAGE 1.DWG
54100173 - 025001-TC_STAGE 1 - STAGE 1_09
PLOT DATE : 6/20/2016 7:40 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1:100_XREF

2

2

NOTE: ALL SIGNS ARE 48"X48" UNLESS OTHERWISE INDICATED

N

TRAFFIC CONTROL COVERING SIGNS TYPE II

EP: 781+52.19

771+00 772+00 773+00 774+00 775+00 776+00 777+00 778+00 779+00 780+00 781+00

100' (TYP.)

50' (TYP.)

MATCHLINE 'A'

USH 51

LANE CLOSED
R11-2L
48"X30"

TRAFFIC CONTROL COVERING SIGNS TYPE II

THIS LANE ENDS

TRAFFIC CONTROL COVERING SIGNS TYPE II

NOTE: TURN OR COVER ALL SIGNS THAT ARE NOT APPLICABLE FOR PEAK TRAVEL HOUR TIMES WITH NO TEMPORARY LANE OR RAMP CLOSURES.

LEGEND

- DRUM WITH/WITHOUT WARNING LIGHT TYPE C
- TYPE III BARRICADE WITH/WITHOUT SIGN
- POST MOUNTED SIGN/TEMPORARY MOVABLE SUPPORT MOUNTED SIGN
- ARROW BOARD
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- TRAFFIC FLOW ARROW
- WORK ZONE OR CLOSED LANE

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	TRAFFIC CONTROL - STAGES 1, 3, & 5 (PEAK TRAVEL HOURS)	SHEET 64	E

FILE NAME : P:\90S\93\00093254\CADD\SHEETSPLAN\025001-TC_STAGE 1 (PEAK).DWG
54100173 - 025001-TC_STAGE 1 (PEAK) - STAGE 1P_01

PLOT DATE : 6/20/2016 7:40 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

NOTE: ALL SIGNS ARE 48"X48"
UNLESS OTHERWISE INDICATED

N

MATCHLINE 'A'

50' (TYP.)

600' SHIFTING TAPER

ROAD WORK AHEAD
W20-1-A

SPEED LIMIT 55
COVER WITH SIGN

SPEED LIMIT 45
R2-1
36"X48"

USH 51

MILWAUKEE ST

525' TO ARROW BOARD

50' (TYP.)

5 DRUMS SPACED AT 10' INTERVALS
IN FRONT OF ARROW BOARD

MATCHLINE 'B'

SPEED LIMIT 55
COVER WITH SIGN

SPEED LIMIT 45
R2-1
36"X48"

NOTE: TAPER LINES ARE SHOWN FOR INFORMATION ONLY.
TEMPORARY PAVEMENT MARKINGS ARE NOT REQUIRED.

NOTE: TURN OR COVER ALL SIGNS THAT ARE NOT APPLICABLE FOR PEAK TRAVEL HOUR TIMES WITH NO TEMPORARY LANE OR RAMP CLOSURES.

LEGEND

- DRUM WITH/WITHOUT WARNING LIGHT TYPE C
- TYPE III BARRICADE WITH/WITHOUT SIGN
- POST MOUNTED SIGN/TEMPORARY MOVABLE SUPPORT MOUNTED SIGN
- ARROW BOARD
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- TRAFFIC FLOW ARROW
- WORK ZONE OR CLOSED LANE

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	TRAFFIC CONTROL - STAGES 1, 3, & 5 (PEAK TRAVEL HOURS)	SHEET 65	E

FILE NAME : P:\90S\93\00093254\CADD\SHEETSPLAN\025001-TC_STAGE 1 (PEAK).DWG
54100173 - 025001-TC_STAGE 1 (PEAK) - STAGE 1P_02

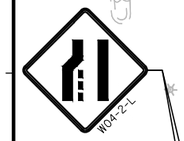
PLOT DATE : 6/20/2016 7:41 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

NOTE: ALL SIGNS ARE 48"X48" UNLESS OTHERWISE INDICATED







CORPORATE DR



USH 51

USH 51/N

MATCHLINE 'B'

MATCHLINE 'C'



NOTE: TURN OR COVER ALL SIGNS THAT ARE NOT APPLICABLE FOR PEAK TRAVEL HOUR TIMES WITH NO TEMPORARY LANE OR RAMP CLOSURES.

LEGEND

- DRUM WITH/WITHOUT WARNING LIGHT TYPE C
- TYPE III BARRICADE WITH/WITHOUT SIGN
- POST MOUNTED SIGN/TEMPORARY MOVABLE SUPPORT MOUNTED SIGN
- ARROW BOARD
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- TRAFFIC FLOW ARROW
- WORK ZONE OR CLOSED LANE

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	TRAFFIC CONTROL - STAGES 1, 3, & 5 (PEAK TRAVEL HOURS)	SHEET 66	E

FILE NAME : P:\90S\93\00093254\CADD\SHEETSPLAN\025001-TC_STAGE 1 (PEAK).DWG
54100173 - 025001-TC_STAGE 1 (PEAK) - STAGE 1P_03

PLOT DATE : 6/20/2016 7:41 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

NOTE: ALL SIGNS ARE 48"X48" UNLESS OTHERWISE INDICATED

ROAD WORK AHEAD W20-1-A

LEFT LANE CLOSED 1/2 MILE W20-5-G

SPEED LIMIT 45

ROAD WORK 1 MILE W20-1-F

4,350'

STOUGHTON RD

STH 30

USH 51/N

NAKOOSA TR

MATCHLINE 'C'

ROAD WORK AHEAD W20-1-A

NOTE: TURN OR COVER ALL SIGNS THAT ARE NOT APPLICABLE FOR PEAK TRAVEL HOUR TIMES WITH NO TEMPORARY LANE OR RAMP CLOSURES.

LEGEND

- DRUM WITH/WITHOUT WARNING LIGHT TYPE C
- TYPE III BARRICADE WITH/WITHOUT SIGN
- POST MOUNTED SIGN/TEMPORARY MOVABLE SUPPORT MOUNTED SIGN
- ARROW BOARD
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- TRAFFIC FLOW ARROW
- WORK ZONE OR CLOSED LANE

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	TRAFFIC CONTROL - STAGES 1, 3, & 5 (PEAK TRAVEL HOURS)	SHEET 67	E

FILE NAME : P:\90S\93\00093254\CADD\SHEETSPLAN\025001-TC_STAGE 1 (PEAK).DWG
54100173 - 025001-TC_STAGE 1 (PEAK) - STAGE 1P_04

PLOT DATE : 6/20/2016 7:41 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

FOR WORK BETWEEN PFLAUM ROAD AND BUCKEYE ROAD, CLOSE THE SOUTHBOUND LANE PRIOR TO THE COTTAGE GROVE ROAD ENTRANCE RAMP IN ACCORDANCE TO S.D.D. "TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE." (STAGES 2 & 4)

2

N

NOTE: ALL SIGNS ARE 48"X48" UNLESS OTHERWISE INDICATED

ROAD WORK AHEAD
W20-1-A

END ROAD WORK
G20-2A
48"X24"

LANE CLOSED
R11-2L
48"X30"

R4-7
36"X48"

BEGIN LEFT TURN LANE
R3-20-L
24"X36"

LANE CLOSED
R11-2L
48"X30"

LANE CLOSED
R11-2L
48"X30"

100' (TYP.)

25' (TYP.)

25' (TYP.)

100' (TYP.)

100' TAPER

10'

END ROAD WORK
G20-2A
48"X24"

LANE CLOSED
R11-2L
48"X30"

ROAD WORK AHEAD
W20-1-A

SERVICE LN
PFLAUM RD
S STOUGHTON RD SRV RD
USH 51
RAMP
FILLER CAP
CANOPY
SUBST
TOWER
SIGN
FLAG
A/C
INL
MH
W

LEGEND

- DRUM WITH/WITHOUT WARNING LIGHT TYPE C
- TYPE III BARRICADE WITH/WITHOUT SIGN
- POST MOUNTED SIGN/TEMPORARY MOVABLE SUPPORT MOUNTED SIGN
- ARROW BOARD
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- TRAFFIC FLOW ARROW
- WORK ZONE OR CLOSED LANE

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	TRAFFIC CONTROL - STAGES 2, 4, & 6 (NIGHTTIME TRAVEL HOURS)	SHEET 68	E

2

FOR WORK BETWEEN PFLAUM ROAD AND BUCKEYE ROAD, CLOSE THE SOUTHBOUND LANE PRIOR TO THE COTTAGE GROVE ROAD ENTRANCE RAMP IN ACCORDANCE TO S.D.D. "TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE." (STAGES 2 & 4)

2

N

NOTE: ALL SIGNS ARE 48"X48" UNLESS OTHERWISE INDICATED

ROAD WORK AHEAD
W20-1-A

END ROAD WORK
G20-2A
48"X24"

LANE CLOSED
R11-2L
48"X30"

BEGIN LEFT TURN LANE
R3-20-L
24"X36"

BEGIN RIGHT TURN LANE
R3-20-R
24"X36"

R4-7
36"X48"

Pl: 697+49.82

100' (TYP.)

25' (TYP.)

100' TAPER

697+00 698+00 699+00 700+00 701+00 702+00 703+00 704+00 705+00 706+00 707+00 708+00 709+00 710+00 711+00

BUCKEYE RD

USH 51

LEGEND

- DRUM WITH/WITHOUT WARNING LIGHT TYPE C
- TYPE III BARRICADE WITH/WITHOUT SIGN
- POST MOUNTED SIGN/TEMPORARY MOVABLE SUPPORT MOUNTED SIGN
- ARROW BOARD
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- TRAFFIC FLOW ARROW
- WORK ZONE OR CLOSED LANE

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	TRAFFIC CONTROL - STAGES 2, 4, & 6 (NIGHTTIME TRAVEL HOURS)	SHEET 69	E

2

2

N

NOTE: ALL SIGNS ARE 48"X48" UNLESS OTHERWISE INDICATED

FOR WORK BETWEEN PFLAUM ROAD AND BUCKEYE ROAD, CLOSE THE SOUTHBOUND LANE PRIOR TO THE COTTAGE GROVE ROAD ENTRANCE RAMP IN ACCORDANCE TO S.D.D. "TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE." (STAGES 2 & 4)

LANE CLOSED
R11-2L
48"X30"

100' (TYP.)

RAMP CLOSED

MATCHLINE STA. 729+00

LANE CLOSED
R11-2L
48"X30"

USH 51

LEGEND

- DRUM WITH/WITHOUT WARNING LIGHT TYPE C
- TYPE III BARRICADE WITH/WITHOUT SIGN
- POST MOUNTED SIGN/TEMPORARY MOVABLE SUPPORT MOUNTED SIGN
- ARROW BOARD
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- TRAFFIC FLOW ARROW
- WORK ZONE OR CLOSED LANE

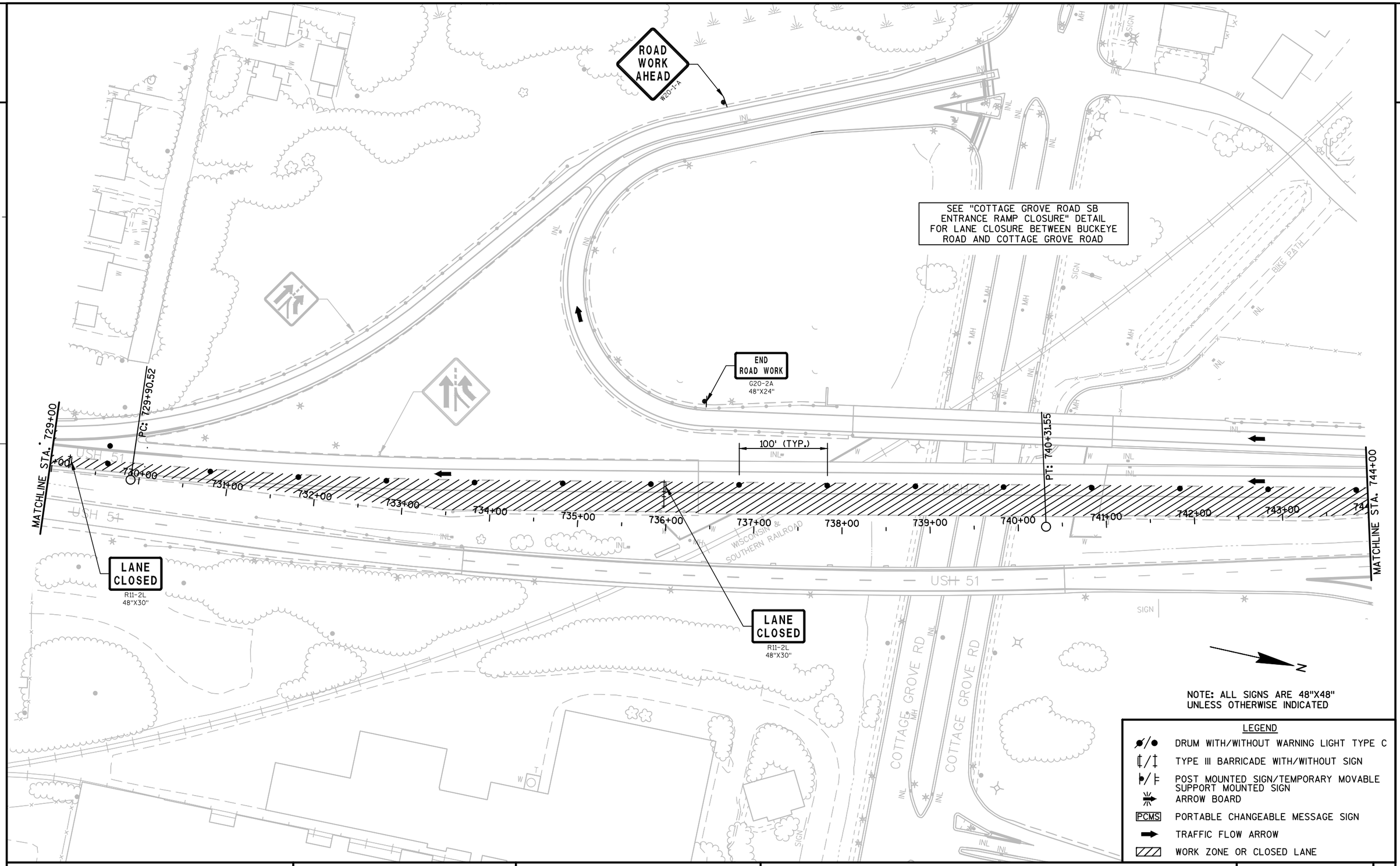
PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	TRAFFIC CONTROL - STAGES 2 & 4 (NIGHTTIME TRAVEL HOURS)	SHEET 70	E

FILE NAME : P:\90S\93\00093254\CADD\SHEETSPLAN\025001-TC_STAGE 2.DWG
54100173 - 025001-TC_STAGE 2 - STAGE 2_03

PLOT DATE : 6/20/2016 7:42 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



NOTE: ALL SIGNS ARE 48"X48" UNLESS OTHERWISE INDICATED

LEGEND

- DRUM WITH/WITHOUT WARNING LIGHT TYPE C
- TYPE III BARRICADE WITH/WITHOUT SIGN
- POST MOUNTED SIGN/TEMPORARY MOVABLE SUPPORT MOUNTED SIGN
- ARROW BOARD
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- TRAFFIC FLOW ARROW
- WORK ZONE OR CLOSED LANE

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	TRAFFIC CONTROL - STAGES 2 & 4 (NIGHTTIME TRAVEL HOURS)	SHEET 71	E

2

2

N

NOTE: ALL SIGNS ARE 48"X48"
UNLESS OTHERWISE INDICATED

LANE CLOSED
R11-2L
48"X30"

LANE CLOSED
R11-2L
48"X30"

PI: 744+23.40

MATCHLINE STA. 744+00

744+00 745+00 746+00 747+00 748+00 749+00 750+00 751+00 752+00 753+00 754+00 755+00 756+00 757+00 758+00 759+00

100' (TYP.)

100' (TYP.)

USH 51

USH 51

INL

SIGN

MH

FOUND

LEGEND

- DRUM WITH/WITHOUT WARNING LIGHT TYPE C
- TYPE III BARRICADE WITH/WITHOUT SIGN
- POST MOUNTED SIGN/TEMPORARY MOVABLE SUPPORT MOUNTED SIGN
- ARROW BOARD
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- TRAFFIC FLOW ARROW
- WORK ZONE OR CLOSED LANE

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	TRAFFIC CONTROL - STAGES 2, 4, & 6 (NIGHTTIME TRAVEL HOURS)	SHEET 72	E

TRAFFIC CONTROL DETAIL FOR LANE CLOSURE BETWEEN COTTAGE GROVE ROAD AND MILWAUKEE STREET

NOTE: ALL SIGNS ARE 48"X48" UNLESS OTHERWISE INDICATED

TRAFFIC CONTROL COVERING SIGNS TYPE II

EP: 781+52.19

W01-4-R

100' (TYP.)

50' (TYP.)

771+00 772+00 773+00 774+00 775+00 776+00 777+00 778+00 779+00 780+00 781+00

300' BUFFER FROM PROJECT LIMITS

100' (TYP.)

50' (TYP.)

200' SHIFTING TAPER

50' (TYP.)

USH 51

MATCHLINE 'A'

LANE CLOSED
R11-2L
48"X30"

TRAFFIC CONTROL COVERING SIGNS TYPE II

THIS LANE ENDS

TRAFFIC CONTROL COVERING SIGNS TYPE II

LANE CLOSED
R11-2L
48"X30"

LEGEND

- DRUM WITH/WITHOUT WARNING LIGHT TYPE C
- TYPE III BARRICADE WITH/WITHOUT SIGN
- POST MOUNTED SIGN/TEMPORARY MOVABLE SUPPORT MOUNTED SIGN
- ARROW BOARD
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- TRAFFIC FLOW ARROW
- WORK ZONE OR CLOSED LANE

NOTE: TAPER LINES ARE SHOWN FOR INFORMATION ONLY. TEMPORARY PAVEMENT MARKINGS ARE NOT REQUIRED.

NOTE: TURN OR COVER ALL SIGNS THAT ARE NOT APPLICABLE FOR PEAK TRAVEL HOUR TIMES WITH NO TEMPORARY LANE OR RAMP CLOSURES.

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	TRAFFIC CONTROL - STAGES 2 & 4 (NIGHTTIME TRAVEL HOURS)	SHEET 73	E

TRAFFIC CONTROL DETAIL FOR LANE CLOSURE BETWEEN COTTAGE GROVE ROAD AND MILWAUKEE STREET

NOTE: ALL SIGNS ARE 48"X48" UNLESS OTHERWISE INDICATED

N

MATCHLINE 'A'

50' (TYP.)

600' SHIFTING TAPER

SPEED LIMIT 55

COVER WITH SIGN

SPEED LIMIT 45

R2-1
36"X48"

SEE "MILWAUKEE STREET SB ENTRANCE RAMP CLOSURE" DETAIL

USH 51

50' (TYP.)

1,500' BUFFER

MATCHLINE 'B'

LANE CLOSED

R11-2L
48"X30"

LEGEND

- DRUM WITH/WITHOUT WARNING LIGHT TYPE C
- TYPE III BARRICADE WITH/WITHOUT SIGN
- POST MOUNTED SIGN/TEMPORARY MOVABLE SUPPORT MOUNTED SIGN
- ARROW BOARD
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- TRAFFIC FLOW ARROW
- WORK ZONE OR CLOSED LANE

NOTE: TAPER LINES ARE SHOWN FOR INFORMATION ONLY. TEMPORARY PAVEMENT MARKINGS ARE NOT REQUIRED.

NOTE: TURN OR COVER ALL SIGNS THAT ARE NOT APPLICABLE FOR PEAK TRAVEL HOUR TIMES WITH NO TEMPORARY LANE OR RAMP CLOSURES.

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	TRAFFIC CONTROL - STAGES 2 & 4 (NIGHTTIME TRAVEL HOURS)	SHEET 74	E

FILE NAME : P:\90S\93\00093254\CADD\SHEETSPLAN\025001-TC_STAGE 2.DWG
54100173 - 025001-TC_STAGE 2 - STAGE 2_07

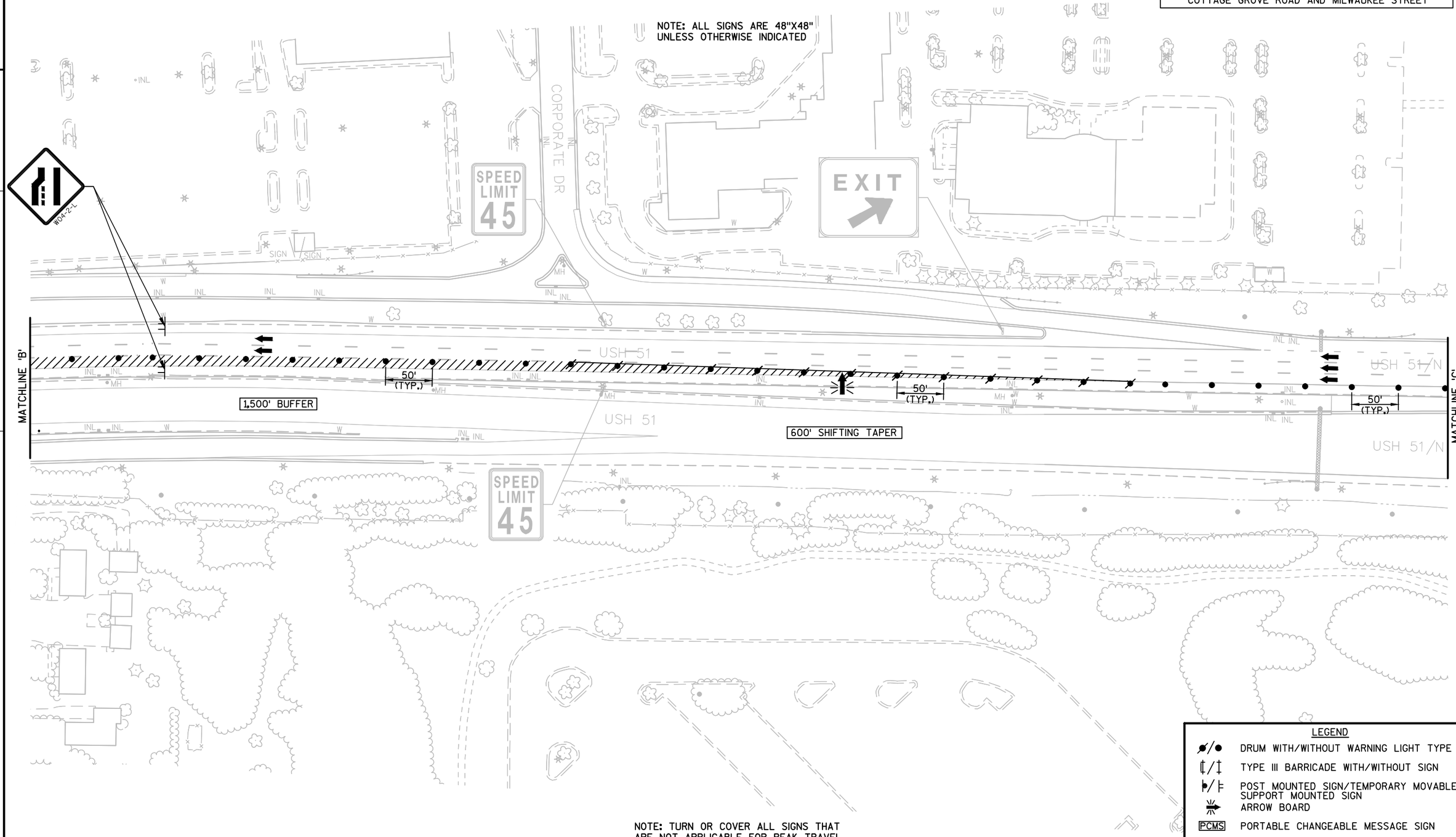
PLOT DATE : 6/20/2016 7:44 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

TRAFFIC CONTROL DETAIL FOR LANE CLOSURE BETWEEN COTTAGE GROVE ROAD AND MILWAUKEE STREET

N

NOTE: ALL SIGNS ARE 48"X48" UNLESS OTHERWISE INDICATED



NOTE: TAPER LINES ARE SHOWN FOR INFORMATION ONLY. TEMPORARY PAVEMENT MARKINGS ARE NOT REQUIRED.

NOTE: TURN OR COVER ALL SIGNS THAT ARE NOT APPLICABLE FOR PEAK TRAVEL HOUR TIMES WITH NO TEMPORARY LANE OR RAMP CLOSURES.

LEGEND

- DRUM WITH/WITHOUT WARNING LIGHT TYPE C
- TYPE III BARRICADE WITH/WITHOUT SIGN
- POST MOUNTED SIGN/TEMPORARY MOVABLE SUPPORT MOUNTED SIGN
- ARROW BOARD
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- TRAFFIC FLOW ARROW
- WORK ZONE OR CLOSED LANE

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	TRAFFIC CONTROL - STAGES 2 & 4 (NIGHTTIME TRAVEL HOURS)	SHEET 75	E

FILE NAME : P:\90S\93\00093254\CADD\SHEETSPLAN\025001-TC_STAGE 2.DWG
54100173 - 025001-TC_STAGE 2 - STAGE 2_08

PLOT DATE : 6/20/2016 7:44 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

TRAFFIC CONTROL DETAIL FOR LANE CLOSURE BETWEEN COTTAGE GROVE ROAD AND MILWAUKEE STREET

NOTE: ALL SIGNS ARE 48"X48" UNLESS OTHERWISE INDICATED

ROAD WORK AHEAD W20-1-A

W04-2-L

SPEED LIMIT 45

ROAD WORK 1 MILE W20-1-F

LEFT TWO LANES CLOSED 2000 FT W20-59-E

LEFT TWO LANES CLOSED 3/4 MILE W20-59-C (MOD)

1,000'

2,000'

1,350'

STOUGHTON RD

50' (TYP.)

5 DRUMS SPACED AT 10' INTERVALS IN FRONT OF ARROW BOARD

MATCHLINE 'C'

STH 30

USH 51/N

COMMER

NAKOOSA TR

ROAD WORK AHEAD W20-1-A

NOTE: TURN OR COVER ALL SIGNS THAT ARE NOT APPLICABLE FOR PEAK TRAVEL HOUR TIMES WITH NO TEMPORARY LANE OR RAMP CLOSURES.

LEGEND

- DRUM WITH/WITHOUT WARNING LIGHT TYPE C
- TYPE III BARRICADE WITH/WITHOUT SIGN
- POST MOUNTED SIGN/TEMPORARY MOVABLE SUPPORT MOUNTED SIGN
- ARROW BOARD
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- TRAFFIC FLOW ARROW
- WORK ZONE OR CLOSED LANE

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	TRAFFIC CONTROL - STAGES 2 & 4 (NIGHTTIME TRAVEL HOURS)	SHEET 76	E

FILE NAME : P:\90S\93\00093254\CADD\SHEETSPLAN\025001-TC_STAGE 2.DWG
54100173 - 025001-TC_STAGE 2 - STAGE 2_09

PLOT DATE : 6/20/2016 7:44 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

NOTE: ALL SIGNS ARE 48"X48" UNLESS OTHERWISE INDICATED

TRAFFIC CONTROL COVERING SIGNS TYPE II

TRAFFIC CONTROL COVERING SIGNS TYPE II

THIS LANE ENDS

TRAFFIC CONTROL COVERING SIGNS TYPE II

LANE CLOSED
R11-2L
48"X30"

771+00 772+00 773+00 774+00 775+00 776+00 777+00 778+00 779+00 780+00 781+00

100' (TYP.)

50' (TYP.)

EP: 781+52.19

USH 51

MATCHLINE 'A'

NOTE: TURN OR COVER ALL SIGNS THAT ARE NOT APPLICABLE FOR PEAK TRAVEL HOUR TIMES WITH NO TEMPORARY LANE OR RAMP CLOSURES.

LEGEND

- DRUM WITH/WITHOUT WARNING LIGHT TYPE C
- TYPE III BARRICADE WITH/WITHOUT SIGN
- POST MOUNTED SIGN/TEMPORARY MOVABLE SUPPORT MOUNTED SIGN
- ARROW BOARD
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- TRAFFIC FLOW ARROW
- WORK ZONE OR CLOSED LANE

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	TRAFFIC CONTROL - STAGES 2 & 4 (PEAK TRAVEL HOURS)	SHEET 77	E

FILE NAME : P:\90S\93\00093254\CADD\SHEETSPLAN\025001-TC_STAGE 2 (PEAK).DWG
54100173 - 025001-TC_STAGE 2 (PEAK) - STAGE 2P_01

PLOT DATE : 6/20/2016 7:45 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

NOTE: ALL SIGNS ARE 48"X48"
UNLESS OTHERWISE INDICATED

N

MATCHLINE 'A'

50' (TYP.)

600' SHIFTING TAPER

USH 51

525' TO ARROW BOARD

50' (TYP.)

5 DRUMS SPACED AT 10' INTERVALS
IN FRONT OF ARROW BOARD

MATCHLINE 'B'

ROAD WORK AHEAD
W20-1-A

SPEED LIMIT 55
COVER WITH SIGN

SPEED LIMIT 45
R2-1
36"X48"

SPEED LIMIT 55
COVER WITH SIGN

SPEED LIMIT 45
R2-1
36"X48"

MILWAUKEE ST

MILWAUKEE ST

LEGEND

- DRUM WITH/WITHOUT WARNING LIGHT TYPE C
- TYPE III BARRICADE WITH/WITHOUT SIGN
- POST MOUNTED SIGN/TEMPORARY MOVABLE SUPPORT MOUNTED SIGN
- ARROW BOARD
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- TRAFFIC FLOW ARROW
- WORK ZONE OR CLOSED LANE

NOTE: TAPER LINES ARE SHOWN FOR INFORMATION ONLY.
TEMPORARY PAVEMENT MARKINGS ARE NOT REQUIRED.

NOTE: TURN OR COVER ALL SIGNS THAT ARE NOT APPLICABLE FOR PEAK TRAVEL HOUR TIMES WITH NO TEMPORARY LANE OR RAMP CLOSURES.

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	TRAFFIC CONTROL - STAGES 2 & 4 (PEAK TRAVEL HOURS)	SHEET 78	E

FILE NAME : P:\90S\93\00093254\CADD\SHEETSPLAN\025001-TC_STAGE 2 (PEAK).DWG
54100173 - 025001-TC_STAGE 2 (PEAK) - STAGE 2P_02

PLOT DATE : 6/20/2016 7:45 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

NOTE: ALL SIGNS ARE 48"X48" UNLESS OTHERWISE INDICATED

W04-2-L

LEFT LANE CLOSED 1500 FT
W20-5-B

SPEED LIMIT 45

CORPORATE DR

EXIT

USH 51

USH 51/N

MATCHLINE 'B'

MATCHLINE 'C'

SPEED LIMIT 45

NOTE: TURN OR COVER ALL SIGNS THAT ARE NOT APPLICABLE FOR PEAK TRAVEL HOUR TIMES WITH NO TEMPORARY LANE OR RAMP CLOSURES.

LEGEND

- DRUM WITH/WITHOUT WARNING LIGHT TYPE C
- TYPE III BARRICADE WITH/WITHOUT SIGN
- POST MOUNTED SIGN/TEMPORARY MOVABLE SUPPORT MOUNTED SIGN
- ARROW BOARD
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- TRAFFIC FLOW ARROW
- WORK ZONE OR CLOSED LANE

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	TRAFFIC CONTROL - STAGES 2 & 4 (PEAK TRAVEL HOURS)	SHEET 79	E

FILE NAME : P:\90S\93\00093254\CADD\SHEETSPLAN\025001-TC_STAGE 2 (PEAK).DWG
54100173 - 025001-TC_STAGE 2 (PEAK) - STAGE 2P_03

PLOT DATE : 6/20/2016 7:46 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

NOTE: ALL SIGNS ARE 48"X48" UNLESS OTHERWISE INDICATED

ROAD WORK AHEAD W20-1-A

LEFT LANE CLOSED 1/2 MILE W20-5-G

SPEED LIMIT 45

ROAD WORK 1 MILE W20-1-F

4,350'

STOUGHTON RD

STH 30

USH 51/N

NAKOOSA TR

MATCHLINE 'C'

ROAD WORK AHEAD W20-1-A

NOTE: TURN OR COVER ALL SIGNS THAT ARE NOT APPLICABLE FOR PEAK TRAVEL HOUR TIMES WITH NO TEMPORARY LANE OR RAMP CLOSURES.

LEGEND

- DRUM WITH/WITHOUT WARNING LIGHT TYPE C
- TYPE III BARRICADE WITH/WITHOUT SIGN
- POST MOUNTED SIGN/TEMPORARY MOVABLE SUPPORT MOUNTED SIGN
- ARROW BOARD
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- TRAFFIC FLOW ARROW
- WORK ZONE

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	TRAFFIC CONTROL - STAGES 2 & 4 (PEAK TRAVEL HOURS)	SHEET 80	E

FILE NAME : P:\90S\93\00093254\CADD\SHEETSPLAN\025001-TC_STAGE 2 (PEAK).DWG
54100173 - 025001-TC_STAGE 2 (PEAK) - STAGE 2P_04

PLOT DATE : 6/20/2016 7:46 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1 IN:100 FT

NOTE: ENTRANCE RAMP CLOSURE TO BE USED ONLY DURING NIGHTTIME TRAVEL HOURS. TURN SIGNS WHEN NOT IN USE.

NOTE: ALL SIGNS ARE 48"X48" UNLESS OTHERWISE INDICATED

SOUTH M3-3 24"X12"
51 M1-4 24"X24"
RAMP CLOSED AHEAD W20-53-A 36"X36"
LANE CLOSED R11-2L 48"X30"
10'
RAMP CLOSED R11-2-R 48"X30"
R3-1 24"X24"
R3-2 24"X24"
MILWAUKEE ST
DEMPSEY RD
USH 51
SIGN
FLAG
MH
INL
W

LEGEND

- DRUM WITH/WITHOUT WARNING LIGHT TYPE C
- TYPE III BARRICADE WITH/WITHOUT SIGN
- POST MOUNTED SIGN/TEMPORARY MOVABLE SUPPORT MOUNTED SIGN
- ARROW BOARD
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN
- TRAFFIC FLOW ARROW
- WORK ZONE OR CLOSED LANE

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	TRAFFIC CONTROL - MILWAUKEE ST. SB ENTRANCE RAMP CLOSURE	SHEET 81	E

FILE NAME : P:\90S\93\00093254\CADD\SHEETSPLAN\025001-TC_MILWAUKEE STREET RAMP CLOSURE.DWG
54100173 - 025001-TC_MILWAUKEE STREET RAMP CLOSURE - MILWAUKEE STREET

PLOT DATE : 6/20/2016 7:47 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1:80

WISDOT/CADDS SHEET 42

2

N

NOTE: ALL SIGNS ARE 48"X48" UNLESS OTHERWISE INDICATED

SOUTH
M3-3
24"X12"

51
M1-4
24"X24"

RAMP CLOSED AHEAD
W20-53-A
36"X36"

LANE CLOSED
R11-2L
48"X30"

R3-2
24"X24"

LANE CLOSED
R11-2L
48"X30"

10'

KEEP TRAFFIC CONTROL CLEAR OF RAILROAD TRACKS AND CROSSING SIGNAL EQUIPMENT

SOUTH
M3-3
24"X12"

51
M1-4
24"X24"

RAMP CLOSED AHEAD
W20-53-A
36"X36"

R3-1
24"X24"

LANE CLOSED
R11-2L
48"X30"

RAMP CLOSED
R11-2-R
48"X30"

10'

NOTE: ENTRANCE RAMP CLOSURE TO BE USED ONLY DURING NIGHTTIME TRAVEL HOURS. TURN SIGNS WHEN NOT IN USE.

COTTAGE GROVE RD

WISCONSIN & SOUTHERN RAILROAD

LEGEND

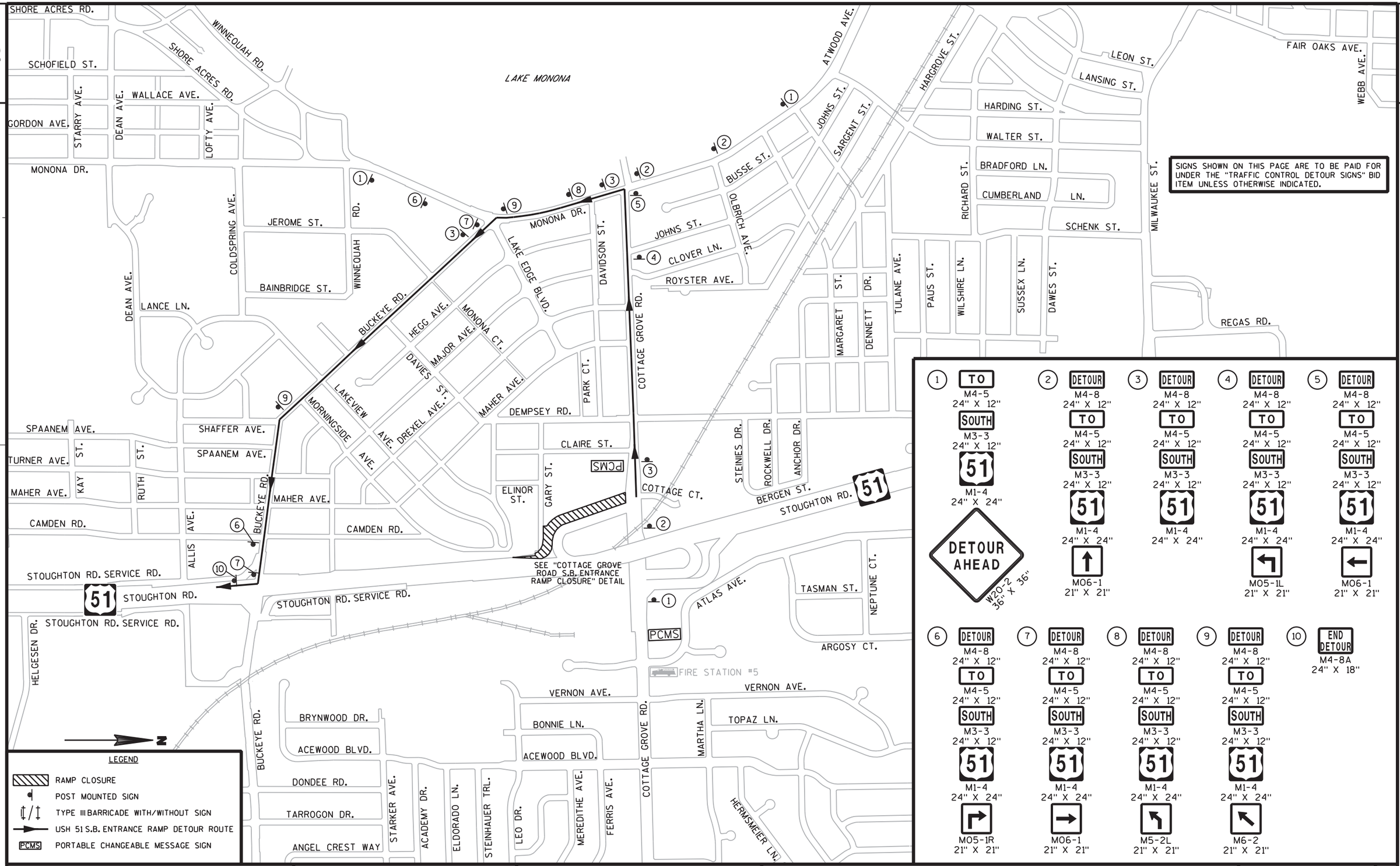
- DRUM WITH/WITHOUT WARNING LIGHT TYPE C
- TYPE III BARRICADE WITH/WITHOUT SIGN
- POST MOUNTED SIGN/TEMPORARY MOVABLE SUPPORT MOUNTED SIGN
- ARROW BOARD
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- TRAFFIC FLOW ARROW
- WORK ZONE OR CLOSED LANE

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	TRAFFIC CONTROL - C.G. ROAD SB ENTRANCE RAMP CLOSURE	SHEET 82	E

FILE NAME : P:\90S\93\00093254\CADD\SHEETSPLAN\025001-TC_MILWAUKEE STREET RAMP CLOSURE.DWG
54100173 - 025001-TC_MILWAUKEE STREET RAMP CLOSURE - COTTAGE GROVE ROAD

PLOT DATE : 6/20/2016 7:47 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1:80

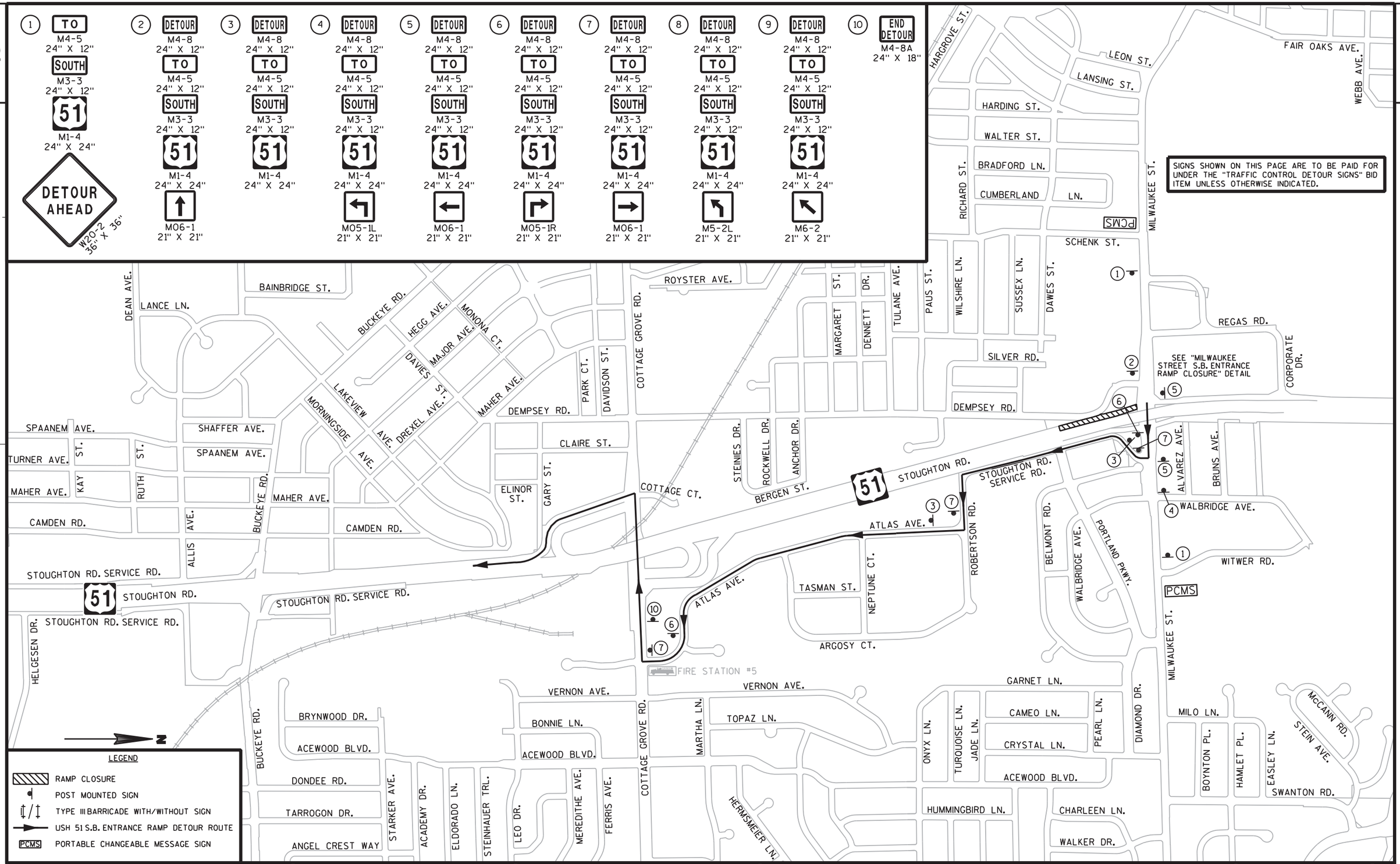
WISDOT/CADDS SHEET 42



PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	DETOUR ROUTE: USH 51 S.B. RAMP CLOSURE (COTTAGE GROVE ROAD)	SHEET 83	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

Cottage Grove Road SB Ramp Closure Detour.dgn 5/31/2016 2:25:29 PM jdolens



PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	DETOUR ROUTE: USH 51 S.B. RAMP CLOSURE (MILWAUKEE STREET)	SHEET	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

Milwaukee Street SB Ramp Closure Detour.dgn 5/31/2016 2:25:30 PM jdolens

DATE 10OCT16 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	5410-01-73 QUANTITY
0010	204.0105	Removing Pavement Butt Joints	SY	1,628.000	1,628.000
0020	204.0115	Removing Asphaltic Surface Butt Joints	SY	1,631.000	1,631.000
0030	204.0120	Removing Asphaltic Surface Milling	SY	7,327.000	7,327.000
0040	204.0150	Removing Curb & Gutter	LF	37.000	37.000
0050	204.0165	Removing Guardrail	LF	370.000	370.000
0060	208.0100	Borrow *P*	CY	251.000	251.000
0070	211.0100	Prepare Foundation for Asphaltic Paving (project) 01. 5410-01-73	LS	1.000	1.000
0080	213.0100	Finishing Roadway (project) 01. 5410-01-73	EACH	1.000	1.000
0090	305.0110	Base Aggregate Dense 3/4-Inch	TON	3,110.000	3,110.000
0100	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	1,660.000	1,660.000
0110	305.0500	Shaping Shoulders	STA	207.000	207.000
0120	325.0100	Pulverize and Relay	SY	2,434.000	2,434.000
0130	390.0403	Base Patching Concrete Shes	SY	2,290.000	2,290.000
0140	416.0610	Drilled Tie Bars	EACH	156.000	156.000
0150	416.0620	Drilled Dowel Bars	EACH	2,496.000	2,496.000
0160	440.4410	Incentive IRI Ride	DOL	7,857.000	7,857.000
0170	455.0605	Tack Coat	GAL	7,111.000	7,111.000
0180	460.2000	Incentive Density HMA Pavement	DOL	6,906.000	6,906.000
0190	460.4110.S	Reheating HMA Pavement Longitudinal Joints	LF	10,140.000	10,140.000
0200	460.5225	HMA Pavement 5 LT 58-28 S	TON	604.000	604.000
0210	460.6224	HMA Pavement 4 MT 58-28 S	TON	6,310.000	6,310.000
0220	460.6424	HMA Pavement 4 MT 58-28 H	TON	4,480.000	4,480.000
0230	465.0315	Asphaltic Flumes	SY	6.000	6.000
0240	465.0400	Asphaltic Shoulder Rumble Strips	LF	20,304.000	20,304.000
0250	614.2300	MGS Guardrail 3	LF	550.000	550.000
0260	614.2310	MGS Guardrail 3 HS	LF	25.000	25.000
0270	614.2610	MGS Guardrail Terminal EAT	EACH	1.000	1.000
0280	614.2620	MGS Guardrail Terminal Type 2	EACH	1.000	1.000
0290	618.0100	Maintenance And Repair of Haul Roads (project) 01. 5410-01-73	EACH	1.000	1.000
0300	619.1000	Mobilization	EACH	1.000	1.000
0310	624.0100	Water	MGAL	60.000	60.000
0320	625.0500	Salvaged Topsoil	SY	4,770.000	4,770.000
0330	628.1504	Silt Fence	LF	1,000.000	1,000.000
0340	628.1520	Silt Fence Maintenance	LF	1,000.000	1,000.000
0350	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000
0360	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0370	628.2002	Erosion Mat Class I Type A	SY	4,770.000	4,770.000
0380	628.7005	Inlet Protection Type A	EACH	3.000	3.000
0390	628.7504	Temporary Ditch Checks	LF	225.000	225.000
0400	628.7555	Culvert Pipe Checks	EACH	20.000	20.000
0410	629.0210	Fertilizer Type B	CWT	8.110	8.110
0420	630.0130	Seeding Mixture No. 30	LB	231.000	231.000
0430	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	4.000	4.000
0440	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	15.000	15.000
0450	634.0620	Posts Wood 4x6-Inch X 20-FT	EACH	10.000	10.000
0460	634.0622	Posts Wood 4x6-Inch X 22-FT	EACH	4.000	4.000
0470	637.2210	Signs Type II Reflective H	SF	297.750	297.750
0480	637.2230	Signs Type II Reflective F	SF	86.000	86.000
0490	638.2602	Removing Signs Type II	EACH	41.000	41.000
0500	638.3000	Removing Small Sign Supports	EACH	42.000	42.000

3

DATE 10OCT16 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	5410-01-73 QUANTITY
0510	642.5201	Field Office Type C	EACH	1.000	1.000
0520	643.0100	Traffic Control (project) 01. 5410-01-73	EACH	1.000	1.000
0530	643.0300	Traffic Control Drums	DAY	61,920.000	61,920.000
0540	643.0420	Traffic Control Barricades Type III	DAY	4,033.000	4,033.000
0550	643.0705	Traffic Control Warning Lights Type A	DAY	8,066.000	8,066.000
0560	643.0715	Traffic Control Warning Lights Type C	DAY	5,012.000	5,012.000
0570	643.0800	Traffic Control Arrow Boards	DAY	406.000	406.000
0580	643.0900	Traffic Control Signs	DAY	9,601.000	9,601.000
0590	643.0920	Traffic Control Covering Signs Type II	EACH	3.000	3.000
0600	643.1050	Traffic Control Signs PCMS	DAY	114.000	114.000
0610	643.2000	Traffic Control Detour (project) 01. 5410-01-73	EACH	1.000	1.000
0620	643.3000	Traffic Control Detour Signs	DAY	2,205.000	2,205.000
0630	646.0600	Removing Pavement Markings	LF	20,225.000	20,225.000
0640	646.2304.S	Pavement Marking Grooved Wet Reflective Epoxy 4-Inch	LF	26,636.000	26,636.000
0650	646.2308.S	Pavement Marking Grooved Wet Reflective Epoxy 8-Inch	LF	4,301.000	4,301.000
0660	647.0166	Pavement Marking Arrows Epoxy Type 2	EACH	16.000	16.000
0670	647.0356	Pavement Marking Words Epoxy	EACH	12.000	12.000
0680	647.0566	Pavement Marking Stop Line Epoxy 18-Inch	LF	120.000	120.000
0690	647.0766	Pavement Marking Crosswalk Epoxy 6-Inch	LF	445.000	445.000
0700	649.0402	Temporary Pavement Marking Paint 4-Inch	LF	8,944.000	8,944.000
0710	649.0802	Temporary Pavement Marking Paint 8-Inch	LF	365.000	365.000
0720	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	20.000	20.000
0730	650.8000	Construction Staking Resurfacing Reference	LF	10,140.000	10,140.000
0740	650.9910	Construction Staking Supplemental Control (project) 01. 5410-01-73	LS	1.000	1.000
0750	650.9920	Construction Staking Slope Stakes	LF	4,718.000	4,718.000
0760	690.0150	Sawing Asphalt	LF	320.000	320.000
0770	690.0250	Sawing Concrete	LF	5,470.000	5,470.000
0780	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	500.000	500.000
0790	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	250.000	250.000
0800	SPV.0090	Special 01. Removing HMA Pavement Notched Wedge Longitudinal Joint Milling	LF	20,280.000	20,280.000
0810	SPV.0090	Special 02. Concrete Curb and Gutter 6-Inch Sloped 30-Inch HES Type J Special	LF	20.000	20.000

3

3

BUTT JOINTS

CATEGORY	BUTT JOINT STATION	LOCATION	(204.0105) REMOVING PAVEMENT BUTT JOINTS SY	(204.0115) REMOVING ASPHALTIC SURFACE BUTT JOINTS SY
0010	627+82	BEGIN PROJECT	-	292
	658+56	SOUTH OF PFLAUM ROAD	269	92
	666+10	NORTH OF PFLAUM ROAD	400	92
	698+70	SOUTH OF BUCKEYE ROAD	259	92
	706+60	NORTH OF BUCKEYE ROAD	400	92
	724+51	SOUTH OF COTTAGE GROVE ROAD	-	325
	754+68	NORTH OF COTTAGE GROVE ROAD	-	325
	773+26 to 774+39 RT	CROSSOVER	-	162
	774+83	END PROJECT	300	159
		PROJECT TOTALS	**1,628**	**1,631**

REMOVING ASPHALTIC SURFACE MILLING

CATEGORY	STATION	TO STATION	LOCATION	(204.0120) SY
0010	627+82	658+56	MEDIAN SHOULDER	1,025
	627+82	658+56	OUTSIDE SHOULDER	1,025
	627+82	-	LOWER LAYER @ BUTT JOINT	59
	658+56	-	LOWER LAYER @ BUTT JOINT	74
	665+00	698+70	MEDIAN SHOULDER	1,124
	665+00	698+70	OUTSIDE SHOULDER	1,124
	666+10	-	LOWER LAYER @ BUTT JOINT	118
	698+70	-	LOWER LAYER @ BUTT JOINT	76
	706+00	725+50	MEDIAN SHOULDER	650
	706+60	-	LOWER LAYER @ BUTT JOINT	118
	722+25	724+51	AUXILIARY LANE	302
	724+51	-	LOWER LAYER @ BUTT JOINT	59
	753+25	773+25	MEDIAN SHOULDER	667
	753+25	776+00	OUTSIDE SHOULDER	759
	754+68	-	LOWER LAYER @ BUTT JOINT	59
	774+83	-	LOWER LAYER @ BUTT JOINT	88
			PROJECT TOTAL	**7,327**

REMOVING CURB & GUTTER

CATEGORY	STATION	TO	STATION	LOCATION	(204.0150) LF
0010	722+23		722+60	LT	37
				PROJECT TOTAL	**37**

REMOVING GUARDRAIL

CATEGORY	STATION	TO	STATION	LOCATION	(204.0165) LF
0010	715+59		716+49	LT	90
	719+20		722+00	LT	280
				PROJECT TOTAL	**370**

REMOVING HMA PAVEMENT NOTCHED WEDGE LONGITUDINAL JOINT MILLING

CATEGORY	STATION	TO	STATION	(SPV.0090.01) LF
0010	627+82		658+56	6,148
	666+10		698+70	6,520
	706+60		724+51	3,582
	754+68		774+83	4,030
			PROJECT TOTAL	**20,280**

NOTE: REMOVING HMA PAVEMENT NOTCHED WEDGE LONGITUDINAL JOINT REQUIRED BEFORE STAGE 4 AND STAGE 5 PAVING

PROJECT 5410-01-72 EARTHWORK

Division	From/To Station	Location	Common Excavation (item # 205.0100) Cut	Common Excavation (item # 205.0100) EBS Excavation	Salvaged/ Unusable Pavement Material	Available Material	Unexpanded Fill	Expanded Fill (1) Factor 1.25	Mass Ordinate +/- (2)	Waste	Borrow (Item #208.0100)	Comment:
1	627+82 to 658+56	Broadway to Pflaum Rd	0	0	0	0	101	126	-126		126	
	666+10 to 698+70	Pflaum Rd to Buckeye Rd	0	0	0	0	10	12	-12		12	
	706+60 to 724+51	Buckeye Rd to Cottage Grove Rd	0	0	0	0	55	69	-69		69	
	754+68 to 774+83	Cottage Grove Rd to Milwaukee St	0	0	0	0	35	44	-44		44	
PROJECT TOTALS			0	0	0	0	201	251	-251	0	251	

1) Expanded Fill Factor = 1.25
2) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.

BASE AGGREGATE DENSE

CATEGORY	STATION	TO	STATION	(305.0110) 3/4-INCH TON	(305.0120) 1 1/4-INCH TON	(305.0500) SHAPING SHOULDERS STA	(624.0100) WATER MGAL
0010	627+82		628+47	20	0	4	1
	628+47		647+50	490	520	38	11
	647+50		651+23	100	350	8	5
	651+23		658+12	200	0	14	2
	658+12		658+56	10	10	0	1
	666+10		666+54	10	10	2	1
	666+54		680+21	390	0	28	4
	680+21		692+51	300	330	24	7
	692+51		698+26	170	0	12	2
	698+26		698+70	10	10	0	1
	706+60		707+04	10	10	2	1
	706+84		715+25	240	0	18	3
	715+25		722+60	300	40	14	4
	722+60		724+07	30	0	2	1
	724+07		724+51	10	10	0	1
	754+68		755+12	10	10	4	1
	755+12		768+12	370	0	26	4
	768+12		773+26	150	200	10	4
	773+25		774+83	10	10	1	1
	UNDISTRIBUTED			280	150	-	5
	PROJECT TOTALS			**3,110**	**1,660**	**207**	**60**

PULVERIZE AND RELAY

CATEGORY	STATION	TO	STATION	LOCATION	(325.0100) SY	NOTES
0010	628+47		651+23	LT	2,024	Outside Shoulder - High side S.E.
	680+21		692+51	RT	410	Median Shoulder - High side S.E.
			PROJECT TOTAL		**2,434**	

BASE PATCHING CONCRETE SHES

CATEGORY	STATION	TO	STATION	LOCATION	(390.0403) SY	(416.0610) DRILLED TIE BARS EACH	(416.0620) DRILLED DOWEL BARS EACH	** (690.0150) SAWING ASPHALT LF	(690.0250) SAWING CONCRETE LF
0010	627+82		658+56	BEGIN PROJECT TO PFLAUM ROAD	760	75	720	-	1,650
	666+10		698+70	PFLAUM ROAD TO BUCKEYE ROAD	490	26	576	-	1,240
	706+60		724+51	BUCKEYE ROAD TO COTTAGE GROVE ROAD	430	25	464	320	1,010
	754+68		774+83	COTTAGE GROVE ROAD TO MILWAUKEE STREET	610	30	736	-	1,570
				PROJECT TOTALS	**2,290**	**156**	**2,496**	**320**	**5,470**

** Sawing along Auxiliary Lane

HMA PAVEMENT

CATEGORY	STATION	TO	STATION	(455.0605) TACK COAT GAL	(460.4110.S)* REHEATING HMA PAVEMENT LONGITUDINAL JOINTS LF	(460.5225) HMA PAVEMENT 5 LT 58-28 S TON	(460.6224) HMA PAVEMENT 4 MT 58-28 S TON	(460.6424) HMA PAVEMENT 4 MT 58-28 H TON	(465.0400) ASPHALTIC SHOULDER RUMBLE STRIPS LF	NOTES
0010	627+82		628+47	40	65	4	10	30	130	Butt Joint
	628+47		647+50	1355	1903	107	1,370	750	3,806	Outside (LT) High Side Super
	647+50		651+23	301	373	21	330	150	746	Outside (LT) High Side Super - Exist NC
	651+23		657+81	407	658	37	360	260	1,316	Typical Section
	657+81		658+56	36	75	5	10	40	150	Butt Joint
	665+00		666+10	6	0	7	0	0	220	Existing Paved Shoulders
	666+10		666+85	46	75	5	10	50	150	Butt Joint
	666+85		667+12	27	27	2	30	20	54	Turn Lanes
	667+12		668+91	145	179	11	130	100	358	Turn Lane Transition
	668+91		680+21	699	1130	64	620	450	2,260	Typical Section
	680+21		692+51	876	1230	69	830	490	2,460	Inside (RT) High Side Super
	692+51		697+95	337	544	31	300	220	1,088	Typical Section
	697+95		698+70	36	75	5	10	40	150	Butt Joint
	706+00		706+60	3	0	4	0	0	120	Existing Paved Shoulders
	706+60		707+35	60	75	5	10	50	150	Butt Joint
	707+35		710+50	313	315	18	260	210	630	Turn Lanes
	710+50		712+00	135	150	9	120	90	300	Turn Lane Transition
	712+00		715+00	242	300	17	210	160	600	Typical Section
	715+00		722+60	636	760	43	530	420	1,520	Guardrail Left
	722+60		723+76	81	116	7	70	60	116	C&G LT
	723+76		724+51	37	75	5	10	40	75	Butt Joint
	724+51		725+50	3	0	3	0	0	99	Existing Paved Shoulders
	753+25		754+68	7	0	9	0	0	286	Existing Paved Shoulders
	754+68		755+43	37	75	5	20	40	150	Butt Joint
	755+43		768+12	785	1269	72	690	500	2,538	Typical Section
	768+12		774+08	415	596	34	360	270	596	Median Lane Drop Taper
	774+08		774+83	42	75	0	20	40	75	Butt Joint
	774+39		776+00	4	0	5	0	0	161	Existing Outside Shoulder
PROJECT TOTALS				**7,111**	**10,140**	**604**	**6,310**	**4,480**	**20,304**	

*UPPER LAYER JOINT ONLY

ASPHALTIC FLUMES

CATEGORY	STATION	TO	STATION	LOCATION	(465.0315) SY
0010	722+44		722+60	LT	6
PROJECT TOTAL					**6**

CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH HES TYPE J SPECIAL

CATEGORY	STATION	TO	STATION	LOCATION	(SPV.0090.02) LF	(650.5500) CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF
0010	724+31		724+51	LT	20	20
PROJECT TOTALS					**20**	**20**

MGS GUARDRAIL

CATEGORY	STATION	TO STATION	LOCATION	(614.2300) MGS GUARDRAIL 3 LF	(614.2310) MGS GUARDRAIL 3 HS LF	(614.2610) MGS GUARDRAIL TERMINAL EAT EACH	(614.2620) MGS GUARDRAIL TERMINAL TYPE 2 EACH
0010	715+25	715+25	LT	-	-	-	1
	715+25	721+00	LT	550	25	-	-
	721+00	721+50	LT	-	-	1	-
PROJECT TOTALS				**550**	**25**	**1**	**1**

*NOTE: MGS Guardrail 3 HS quantity is to account for two cross culverts at STA 716+88 & STA 719+89 that may require half post spacing to avoid post conflict.

FINISHING ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	(625.0500) SALVAGED TOPSOIL SY	(628.2002) EROSION MAT CLASS I TYPE A SY	(629.0210) FERTILIZER TYPE B CWT	(630.0130) SEEDING MIXTURE NO. 30 LB
0010	627+71		658+56	LT & RT	-	-	1.56	44
	629+50		651+01	LT	1,960	1,960	1.23	35
	666+08		698+70	LT & RT	-	-	1.65	47
	684+13		691+50	RT	470	470	0.29	8
	692+00		698+70	LT & RT	210	210	0.13	4
	706+60		724+48	LT & RT	-	-	0.90	26
	707+19		724+52	LT & RT	1,180	1,180	0.74	21
	754+68		774+83	LT & RT	-	-	1.02	29
	768+00		773+27	RT	450	450	0.28	8
			UNDISTRIBUTED		500	500	0.32	9
PROJECT TOTALS					**4,770**	**4,770**	**8.11**	**231**

3

SILT FENCE

CATEGORY	STATION	TO STATION	LOCATION	(628.1504) SILT FENCE LF	(628.1520) SILT FENCE MAINTENANCE LF
0010	629+50	635+30	LT	580	580
	720+00	723+10	LT	320	320
		UNDISTRIBUTED		100	100
		PROJECT TOTALS		**1,000**	**1,000**

MOBILIZATIONS EROSION CONTROL

CATEGORY	DESCRIPTION	(628.1905) EACH	(628.1910) EMERGENCY EROSION CONTROL EACH
0010	PROJECT 5410-01-73	4	2
	PROJECT TOTALS	**4**	**2**

INLET PROTECTION TYPE A

CATEGORY	STATION	LOCATION	(628.7005) EACH
0010	UNDISTRIBUTED		3
	PROJECT TOTAL		**3**

TEMPORARY DITCH CHECKS

CATEGORY	STATION	LOCATION	(628.7504) LF
0010	635+50	LT	30
	639+00	LT	30
	643+00	LT	30
	647+00	LT	30
	691+50	RT	30
	769+50	RT	30
	UNDISTRIBUTED		45
	PROJECT TOTAL		**225**

CULVERT PIPE CHECKS

CATEGORY	STATION	LOCATION	PIPE SIZE (IN.)	(628.7555) EACH
0010	692+91	RT	24	3
	716+88	LT	30	5
	719+89	LT	36	8
	UNDISTRIBUTED			4
	PROJECT TOTAL			**20**

REMOVING SIGNS TYPE II

CATEGORY	SIGN NO.	STATION	LOCATION	SIGN MESSAGE	(638.2602) REMOVING SIGNS TYPE II EACH	(638.3000) REMOVING SMALL SIGN SUPPORTS EACH	NOTES
0010	R2.1	629+96	LT	SPEED REDUCTION AHEAD 45 MPH	1	1	
	R2.2	629+96	RT	SPEED REDUCTION AHEAD 45 MPH	1	1	
	R2.3	634+58	LT	BROADWAY STREET SIGN WITH ARROWS (TYPE 2)	1	2	
	R2.4	634+58	RT	BROADWAY STREET SIGN WITH ARROWS (TYPE 2)	1	2	
	R3.1	646+98	LT	ADOPT-A-HIGHWAY SPONSOR	1	1	
	R4.1	653+46	LT	ALTERNATE INTERSTATE 39 ROUTE MARKER	1	1	
	R4.2	653+46	RT	ALTERNATE INTERSTATE 39 ROUTE MARKER	1	1	
	R4.3	655+14	LT	SPEED LIMIT 55	1	1	
	R4.4	655+14	RT	SPEED LIMIT 55	1	1	
	R4.5	657+37	LT	SOUTH USH 51 ROUTE MARKER	1	1	
	R5.1	669+31	LT	ALTERNATE INTERSTATE 39 AHEAD ROUTE MARKER	1	1	
	R5.2	669+31	RT	ALTERNATE INTERSTATE 39 AHEAD ROUTE MARKER	1	1	
	R5.3	673+41	RT	PLFAUM ROAD STREET SIGN	1	2	
	R5.4	677+89	LT	TRAFFIC SIGNALS AHEAD	1	1	
	R5.5	677+89	RT	TRAFFIC SIGNALS AHEAD	1	1	
	R6.1	692+81	LT	SPEED LIMIT 55	1	1	
	R6.2	692+81	RT	SPEED LIMIT 55	1	1	
	R6.3	694+71	LT	ADOPT-A-HIGHWAY SPONSOR	1	1	
	R6.4	695+24	LT	ALTERNATE INTERSTATE 39 AHEAD ROUTE MARKER	1	1	
	R6.5	695+24	RT	ALTERNATE INTERSTATE 39 AHEAD ROUTE MARKER	1	1	
	R7.1	697+25	LT	SOUTH USH 51 ROUTE MARKER	1	1	
	R7.2	705+00	RT	CTH AB LEFT DIRECTIONAL ARROW	1	1	
	R7.3	706+56	LT	ALTERNATE INTERSTATE 39 AHEAD ROUTE MARKER	1	1	
	R7.4	706+56	RT	ALTERNATE INTERSTATE 39 AHEAD ROUTE MARKER	1	1	
	R7.5	708+82	RT	BUCKEYE ROAD STREET SIGN	1	2	
	R7.6	710+38	LT	RIGHT LANE MUST TURN RIGHT	1	1	
	R8.1	712+18	LT	TRAFFIC SIGNALS AHEAD	1	1	
	R8.2	712+18	RT	TRAFFIC SIGNALS AHEAD	1	1	
	R8.3	715+73	LT	JUNCTION CTH AB ROUTE MARKER	1	-	ON OVERHEAD SIGN SUPPORT
	R8.4	715+73	LT	LEFT TURN ONLY	1	-	ON OVERHEAD SIGN SUPPORT
	R8.5	715+73	RT	JUNCTION CTH AB ROUTE MARKER	1	1	
	R8.6	719+96	LT	SPEED LIMIT 55	1	1	
	R8.7	722+45	LT	SOUTH USH 51 ROUTE MARKER	1	1	
	R9.1	741+92	LT	ADOPT-A-HIGHWAY SPONSOR	1	1	
	R10.1	752+75	LT	ALTERNATE INTERSTATE 39 AHEAD ROUTE MARKER	1	1	
	R10.2	752+75	RT	ALTERNATE INTERSTATE 39 AHEAD ROUTE MARKER	1	1	
	R11.1	768+00	LT	SPEED LIMIT 55	1	1	
	R11.2	768+00	RT	SPEED LIMIT 55	1	1	
	R12.1	772+47	LT	SOUTH USH 51 ROUTE MARKER	1	1	
	R12.2	778+46	LT	LEFT LANE ENDS	1	1	
	R12.3	778+46	RT	LEFT LANE ENDS	1	-	ON STREET LIGHT POLE
				PROJECT TOTALS	**41**	**42**	

3

PERMANENT SIGNING

CATEGORY	SIGN NO.	STATION	LOCATION	SIGN CODE	SIGN MESSAGE	WIDTH (IN.)	HT. (IN.)	(637.2210) SIGNS TYPE II REFLECTIVE H SF	(637.2230) SIGNS TYPE II REFLECTIVE F SF	(634.0616) POSTS WOOD 4x6-INCH X 16 FT EACH	(634.0618) POSTS WOOD 4x6-INCH X 18 FT EACH	(634.0620) POSTS WOOD 4x6-INCH X 20 FT EACH	(634.0622) POSTS WOOD 4x6-INCH X 22 FT EACH	NOTES
0010	2.1	629+96	LT	W3-5	SPEED REDUCTION AHEAD 45 MPH	36	36	-	9.00	-	1	-	-	
	2.2	629+96	RT	W3-5	SPEED REDUCTION AHEAD 45 MPH	36	36	-	9.00	-	1	-	-	
	2.3	634+58	LT	D1-60	BROADWAY STREET SIGN WITH ARROWS (TYPE 2)	84	30	17.50	-	-	2	-	-	
	3.1	646+98	LT	I55-56	ADOPT-A-HIGHWAY SPONSOR	30	36	7.50	-	1	-	-	-	
	4.1	655+00	LT	R2-1	SPEED LIMIT 55	36	48	12.00	-	-	1	-	-	
	4.2	657+00	LT	J4-2	SOUTH USH 51/ALTERNATE INTERSTATE 39 ROUTE MARKER	72	54	27.00	-	-	-	1	1	
	5.1	673+00	LT	D1-61	PFLAUM ROAD STREET SIGN WITH ARROWS (TYPE 2)	78	30	16.25	-	-	2	-	-	
	5.2	677+89	LT	W3-3	TRAFFIC SIGNALS AHEAD	36	36	-	9.00	-	-	1	-	
	5.3	677+89	RT	W3-3	TRAFFIC SIGNALS AHEAD	36	36	-	9.00	-	-	1	-	
	6.1	693+50	LT	I55-56	ADOPT-A-HIGHWAY SPONSOR	30	36	7.50	-	1	-	-	-	
	6.2	695+50	LT	R2-1	SPEED LIMIT 55	36	48	12.00	-	-	1	-	-	
	7.1	697+50	LT	J4-2	SOUTH USH 51/ALTERNATE INTERSTATE 39 ROUTE MARKER	72	54	27.00	-	-	-	1	1	
	7.2	710+47	LT	R3-7R	RIGHT LANE MUST TURN RIGHT	36	36	9.00	-	1	-	-	-	
	7.3	711+50	RT	J13-1	CTH AB LEFT DIRECTIONAL ARROW	36	66	16.50	-	-	-	1	-	
	8.1	713+75	LT	W3-3	TRAFFIC SIGNALS AHEAD	36	36	-	9.00	-	-	1	-	
	8.2	713+75	RT	W3-3	TRAFFIC SIGNALS AHEAD	36	36	-	9.00	-	-	1	-	
	8.3	717+00	LT	J1-1	JUNCTION CTH AB ROUTE MARKER	36	57	14.25	-	-	1	-	-	
	8.4	715+73	LT	R3-5R	RIGHT TURN ONLY LANE CONTROL	42	48	14.00	-	-	-	-	-	ON OVERHEAD SIGN SUPPORT
	8.5	717+00	RT	J1-1	JUNCTION CTH AB ROUTE MARKER	36	57	14.25	-	-	1	-	-	
	8.6	718+00	LT	D1-61	BUCKEYE ROAD STREET SIGN WITH ARROWS (TYPE 2)	84	30	17.50	-	-	2	-	-	
	8.7	719+96	LT	R2-1	SPEED LIMIT 55	36	48	12.00	-	-	1	-	-	
	8.8	722+45	LT	J4-2	SOUTH USH 51/ALTERNATE INTERSTATE 39 ROUTE MARKER	72	54	27.00	-	-	-	1	1	
	9.1	741+92	LT	I55-56	ADOPT-A-HIGHWAY SPONSOR	30	36	7.50	-	1	-	-	-	
	11.1	760+00	LT	R2-1	SPEED LIMIT 55	36	48	12.00	-	-	1	-	-	
	11.2	770+00	LT	J4-2	SOUTH USH 51/ALTERNATE INTERSTATE 39 ROUTE MARKER	72	54	27.00	-	-	-	1	1	
	12.1	778+46	LT	W4-2L	LEFT LANE ENDS	48	48	-	16.00	-	1	1	-	
	12.2	778+46	RT	W4-2L	LEFT LANE ENDS	48	48	-	16.00	-	-	-	-	ON STREET LIGHT POLE
					PROJECT TOTALS			**297.75**	**86.00**	**4**	**15**	**10**	**4**	

PAVEMENT MARKING

CATEGORY	STATION	TO	STATION	(646.2304.S) GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW) LF	(646.2304.S) GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE) LF	(646.2308.S) GROOVED WET REFLECTIVE EPOXY 8-INCH (WHITE) LF	(646.0600) REMOVING PAVEMENT MARKINGS LF	(647.0166) ARROWS EPOXY TYPE 2 (WHITE) EACH	(647.0356) WORDS EPOXY (WHITE) EACH	(647.0566) STOP LINE EPOXY 18-INCH LF	(647.0766) CROSSWALK EPOXY 6-INCH LF	(649.0402) TEMPORARY PAVEMENT MARKING PAINT 4-INCH (WHITE) LF	(649.0802) TEMPORARY PAVEMENT MARKING PAINT 8-INCH (WHITE) LF
0010	625+00		659+64	3,464	4,250	-	6,848	-	-	-	-	2,598	-
	660+72		667+15	643	724	1,646	1,206	6	4	60	220	482	-
	667+15		699+75	3,260	4,050	-	6,495	-	-	-	-	2,445	-
	701+10		710+50	940	1,115	2,290	-	10	8	60	225	705	-
	710+50		712+00	150	188	38	-	-	-	-	-	113	38
	712+00		725+10	1,310	1,638	328	1,310	-	-	-	-	983	328
	753+25		774+83	2,208	2,698	-	4,366	-	-	-	-	1,619	-
	PROJECT TOTALS			**11,975**	**14,661**	**4,301**	**20,225**	**16**	**12**	**120**	**445**	**8,944**	**365**
				26,636									

TRAFFIC CONTROL

CATEGORY	LOCATION	STAGE DURATION DAYS	(643.0300) DRUMS NUMBER OF DRUMS	(643.0300) DRUMS DAY	(643.0420) BARRICADES TYPE III NUMBER OF BARRICADES	(643.0420) BARRICADES TYPE III DAY	(643.0705) WARNING LIGHTS TYPE A NUMBER OF LIGHTS	(643.0705) WARNING LIGHTS TYPE A DAY	(643.0715) WARNING LIGHTS TYPE C NUMBER OF LIGHTS	(643.0715) WARNING LIGHTS TYPE C DAY	(643.0800) ARROW BOARDS NUMBER OF BOARDS	(643.0800) ARROW BOARDS DAY	(643.0900) SIGNS NUMBER OF SIGNS	(643.0900) SIGNS DAY	(643.0920) COVERING SIGNS TYPE II EACH
0010	**STAGE 1**														
	LANE CLOSURE SET UP	2	36	72	1	2	2	4	13	26	2	4	9	18	0
	BEGIN PROJECT TO PFLAUM RD	2	31	62	3	6	6	12	0	0	0	0	3	6	0
	PFLAUM RD	2	68	136	4	8	8	16	7	14	0	0	9	18	0
	PFLAUM RD TO BUCKEYE RD	2	29	57	3	6	6	12	0	0	0	0	3	6	0
	BUCKEYE RD	2	63	126	3	6	6	12	6	12	0	0	8	16	0
	BUCKEYE RD TO COTTAGE GROVE RD S.B. ENTRANCE RAMP	2	18	36	2	4	4	8	0	0	0	0	3	6	0
	COTTAGE GROVE RD S.B. ENTRANCE RAMP & COTTAGE GROVE ROAD	2	0	0	0	0	0	0	0	0	0	0	2	4	0
	COTTAGE GROVE RD S.B. ENTRANCE RAMP TO COTTAGE GROVE RD S.B. EXIT RAMP	2	20	40	2	4	4	8	0	0	0	0	2	4	0
	COTTAGE GROVE RD S.B. EXIT RAMP	2	37	74	1	2	2	4	9	18	0	0	2	4	0
	COTTAGE GROVE RD S.B. EXIT RAMP TO MILWAUKEE STREET S.B. ENTRANCE RAMP	2	20	40	2	4	4	8	0	0	0	0	2	4	0
	MILWAUKEE STREET S.B. ENTRANCE RAMP TO WIS 30	2	133	266	4	8	8	16	31	62	4	8	13	26	0
	WIS 30 TO END AVANCED WARNING SIGNS	2	0	0	0	0	0	0	0	0	0	0	8	16	0
	UNDISTRIBUTED	2	23	46	2	4	4	8	0	0	0	0	0	0	0
	STAGE 1 SUBTOTALS		478	**955**	27	**54**	54	**108**	66	**132**	6	**12**	64	**128**	**0**
0010	**STAGE 2**														
	LANE CLOSURE SET UP	30	36	1,080	1	30	2	60	13	390	2	36	9	270	0
	BEGIN PROJECT TO PFLAUM RD	30	62	1,860	3	90	6	180	0	0	0	0	3	90	0
	PFLAUM RD	30	64	1,920	4	120	8	240	3	90	0	0	10	300	0
	PFLAUM RD TO BUCKEYE RD	30	57	1,710	3	90	6	180	0	0	0	0	3	90	0
	BUCKEYE RD	30	70	2,100	3	90	6	180	3	90	0	0	10	300	0
	BUCKEYE RD TO COTTAGE GROVE RD S.B. ENTRANCE RAMP	30	34	1,020	2	60	4	120	0	0	0	0	3	90	0
	COTTAGE GROVE RD S.B. ENTRANCE RAMP & COTTAGE GROVE ROAD	30	53	1,590	7	210	14	420	0	0	0	0	13	390	0
	COTTAGE GROVE RD S.B. ENTRANCE RAMP TO COTTAGE GROVE RD S.B. EXIT RAMP	30	23	690	2	60	4	120	0	0	0	0	2	60	0
	COTTAGE GROVE RD S.B. EXIT RAMP TO MILWAUKEE STREET S.B. ENTRANCE RAMP	30	46	1,380	2	60	4	120	0	0	0	0	2	60	0
	MILWAUKEE STREET S.B. ENTRANCE RAMP CLOSURE	30	75	2,250	11	330	22	660	0	0	0	0	18	540	0
	MILWAUKEE STREET S.B. ENTRANCE RAMP TO WIS 30	30	116	3,480	6	180	12	360	31	930	3	90	12	360	3
	WIS 30 TO END AVANCED WARNING SIGNS	30	0	0	0	0	0	0	0	0	0	0	7	210	0
	PFLAUM RD TO BUCKEYE ROAD NB SHOULDER CLOSURE	2	57	114	0	0	0	0	0	0	1	2	4	8	0
	COTTAGE GROVE RD S.B. EXIT RAMP TO MILWAUKEE ST. S.B. RAMP - NB SHOULDER CLOSURE	2	46	92	0	0	0	0	0	0	1	2	4	8	0
	UNDISTRIBUTED	30	32	960	3	90	6	180	0	0	0	0	0	0	0
	STAGE 2 SUBTOTALS		771	**20,246**	47	**1,410**	94	**2,820**	50	**1,500**	7	**130**	100	**2,776**	**3**
0010	**STAGE 3**														
	LANE CLOSURE SET UP	25	36	900	1	25	2	50	13	325	2	26	9	225	0
	BEGIN PROJECT TO PFLAUM RD	25	62	1,550	3	75	6	150	0	0	0	0	3	75	0
	PFLAUM RD	25	68	1,700	4	100	8	200	7	175	0	0	9	225	0
	PFLAUM RD TO BUCKEYE RD	25	57	1,425	3	75	6	150	0	0	0	0	3	75	0
	BUCKEYE RD	25	63	1,575	3	75	6	150	6	150	0	0	8	200	0
	BUCKEYE RD TO COTTAGE GROVE RD S.B. ENTRANCE RAMP	25	76	1,900	3	75	6	150	0	0	0	0	3	75	0
	COTTAGE GROVE RD S.B. ENTRANCE RAMP & COTTAGE GROVE ROAD	25	53	1,325	7	175	14	350	0	0	0	0	13	325	0
	COTTAGE GROVE RD S.B. ENTRANCE RAMP TO COTTAGE GROVE RD S.B. EXIT RAMP	25	40	1,000	2	50	4	100	0	0	0	0	2	50	0
	COTTAGE GROVE RD S.B. EXIT RAMP	25	37	925	1	25	2	50	9	225	0	0	2	50	0
	COTTAGE GROVE RD S.B. EXIT RAMP TO MILWAUKEE STREET S.B. ENTRANCE RAMP	25	40	1,000	2	50	4	100	0	0	0	0	2	50	0
	MILWAUKEE STREET S.B. ENTRANCE RAMP CLOSURE	25	75	1,875	11	275	22	550	0	0	0	0	18	450	0
	MILWAUKEE STREET S.B. ENTRANCE RAMP TO WIS 30	25	133	3,325	4	100	8	200	31	775	4	100	13	325	0
	STH 30 TO END AVANCED WARNING SIGNS	25	0	0	0	0	0	0	0	0	0	0	8	200	0
	UNEVEN LANE SIGNS	25	0	0	0	0	0	0	0	0	0	0	4	100	0
	UNDISTRIBUTED	25	37	925	3	75	6	150	0	0	0	0	0	0	0
	STAGES 3 SUBTOTALS		777	**19,425**	47	**1,175**	94	**2,350**	66	**1,650**	6	**126**	97	**2,425**	**0**

CONTINUED ON NEXT PAGE

TRAFFIC CONTROL CONTINUED

CATEGORY	LOCATION	STAGE DURATION DAYS	(643.0300) DRUMS NUMBER OF DRUMS	(643.0300) DRUMS DAY	(643.0420) BARRICADES TYPE III NUMBER OF BARRICADES	(643.0420) BARRICADES TYPE III DAY	(643.0705) WARNING LIGHTS TYPE A NUMBER OF LIGHTS	(643.0705) WARNING LIGHTS TYPE A DAY	(643.0715) WARNING LIGHTS TYPE C NUMBER OF LIGHTS	(643.0715) WARNING LIGHTS TYPE C DAY	(643.0800) ARROW BOARDS NUMBER OF BOARDS	(643.0800) ARROW BOARDS DAY	(643.0900) SIGNS NUMBER OF SIGNS	(643.0900) SIGNS DAY	(643.0920) COVERING SIGNS TYPE II EACH
0010	**STAGE 4**														
	LANE CLOSURE SET UP	12	36	432	1	12	2	24	13	156	2	14	9	108	0
	BEGIN PROJECT TO PFLAUM RD	12	62	744	3	36	6	72	0	0	0	0	3	36	0
	PFLAUM RD	12	64	768	4	48	8	96	3	36	0	0	10	120	0
	PFLAUM RD TO BUCKEYE RD	12	57	684	3	36	6	72	0	0	0	0	3	36	0
	BUCKEYE RD	12	70	840	3	36	6	72	3	36	0	0	10	120	0
	BUCKEYE RD TO COTTAGE GROVE RD S.B. ENTRANCE RAMP	12	34	408	2	24	4	48	0	0	0	0	3	36	0
	COTTAGE GROVE RD S.B. ENTRANCE RAMP & COTTAGE GROVE ROAD	12	53	636	7	84	14	168	0	0	0	0	13	156	0
	COTTAGE GROVE RD S.B. ENTRANCE RAMP TO COTTAGE GROVE RD S.B. EXIT RAMP	12	23	276	2	24	4	48	0	0	0	0	2	24	0
	COTTAGE GROVE RD S.B. EXIT RAMP TO MILWAUKEE STREET S.B. ENTRANCE RAMP	12	46	552	2	24	4	48	0	0	0	0	2	24	0
	MILWAUKEE STREET S.B. ENTRANCE RAMP CLOSURE	12	75	900	11	132	22	264	0	0	0	0	18	216	0
	MILWAUKEE STREET S.B. ENTRANCE RAMP TO WIS 30	12	116	1,392	6	72	12	144	31	372	3	36	12	144	0
	WIS 30 TO END AVANCED WARNING SIGNS	12	0	0	0	0	0	0	0	0	0	0	7	84	0
	UNEVEN LANE SIGNS	12	0	0	0	0	0	0	0	0	0	0	4	48	0
	UNDISTRIBUTED	12	32	384	3	36	6	72	0	0	0	0	0	0	0
	STAGES 4 SUBTOTALS		668	**8,016**	47	**564**	94	**1,128**	50	**600**	5	**50**	96	**1,152**	**0**
0010	**STAGE 5**														
	LANE CLOSURE SET UP	15	36	540	1	15	2	30	13	195	2	22	9	135	0
	BEGIN PROJECT TO PFLAUM RD	15	62	930	3	45	6	90	0	0	0	0	3	45	0
	PFLAUM RD	15	68	1,020	4	60	8	120	7	105	0	0	9	135	0
	PFLAUM RD TO BUCKEYE RD	15	53	795	3	45	6	90	0	0	0	0	3	45	0
	BUCKEYE RD	15	63	945	3	45	6	90	6	90	0	0	8	120	0
	BUCKEYE RD TO COTTAGE GROVE RD S.B. ENTRANCE RAMP	15	76	1,140	3	45	6	90	0	0	0	0	3	45	0
	COTTAGE GROVE RD S.B. ENTRANCE RAMP & COTTAGE GROVE ROAD	15	57	855	7	105	14	210	0	0	0	0	13	195	0
	COTTAGE GROVE RD S.B. ENTRANCE RAMP TO COTTAGE GROVE RD S.B. EXIT RAMP	15	40	600	2	30	4	60	0	0	0	0	2	30	0
	COTTAGE GROVE RD S.B. EXIT RAMP	15	37	555	1	15	2	30	9	135	0	0	2	30	0
	COTTAGE GROVE RD S.B. EXIT RAMP TO MILWAUKEE STREET S.B. ENTRANCE RAMP	15	40	600	2	30	4	60	0	0	0	0	2	30	0
	MILWAUKEE STREET S.B. ENTRANCE RAMP CLOSURE	15	75	1,125	11	165	22	330	0	0	0	0	18	270	0
	MILWAUKEE STREET S.B. ENTRANCE RAMP TO WIS 30	15	133	1,995	4	60	8	120	31	465	4	60	13	195	0
	STH 30 TO END AVANCED WARNING SIGNS	15	0	0	0	0	0	0	0	0	0	0	8	120	0
	UNEVEN LANE SIGNS	15	0	0	0	0	0	0	0	0	0	0	4	60	0
	UNDISTRIBUTED	15	37	555	3	45	6	90	0	0	0	0	0	0	0
	STAGES 5 SUBTOTALS		777	**11,655**	47	**705**	94	**1,410**	66	**990**	6	**82**	97	**1,455**	**0**
0010	**STAGE 6**														
	LANE CLOSURE SET UP	5	36	180	1	5	2	10	13	65	2	6	9	45	0
	BEGIN PROJECT TO PFLAUM RD	5	31	155	3	15	6	30	0	0	0	0	3	15	0
	PFLAUM RD	5	67	335	5	25	10	50	3	15	0	0	10	50	0
	PFLAUM RD TO BUCKEYE RD	5	29	143	3	15	6	30	0	0	0	0	3	15	0
	BUCKEYE RD	5	62	310	4	20	8	40	3	15	0	0	9	45	0
	BUCKEYE RD TO COTTAGE GROVE RD S.B. ENTRANCE RAMP	5	18	90	2	10	4	20	0	0	0	0	3	15	0
	COTTAGE GROVE RD S.B. ENTRANCE RAMP & COTTAGE GROVE ROAD	5	0	0	0	0	0	0	0	0	0	0	2	10	0
	COTTAGE GROVE RD S.B. ENTRANCE RAMP TO COTTAGE GROVE RD S.B. EXIT RAMP	5	20	100	2	10	4	20	0	0	0	0	2	10	0
	COTTAGE GROVE RD S.B. EXIT RAMP	5	26	130	1	5	2	10	9	45	0	0	2	10	0
	COTTAGE GROVE RD S.B. EXIT RAMP TO MILWAUKEE STREET S.B. ENTRANCE RAMP	5	20	100	2	10	4	20	0	0	0	0	2	10	0
	MILWAUKEE STREET S.B. ENTRANCE RAMP CLOSURE	5	0	0	0	0	0	0	0	0	0	0	0	0	0
	UNDISTRIBUTED	5	16	80	2	10	4	20	0	0	0	0	0	0	0
	STAGE 6 SUBTOTALS		325	**1,623**	25	**125**	50	**250**	28	**140**	2	**6**	45	**225**	**0**
	MAXIMUM WIDTH SIGNING	40	0	0	0	0	0	0	0	0	0	0	36	1,440	0
	PROJECT TOTALS			**61,920**		**4,033**		**8,066**		**5,012**		**406**		**9,601**	**3**

TRAFFIC CONTROL SIGNS PCMS

CATEGORY	LOCATION	NUMBER OF PCMS	(643.1050) DAY
0010	BEGIN PROJECT	1	14
	COTTAGE GROVE ROAD	2	45
	MILWAUKEE STREET	2	45
	UNDISTRIBUTED	1	10
	PROJECT TOTALS		**114**

TRAFFIC CONTROL DETOUR SIGNS

CATEGORY	LOCATION	NUMBER OF SIGNS	(643.3000) DAY
0010	COTTAGE GROVE RD RAMP DETOUR	71	1,065
	MILWAUKEE STREET RAMP DETOUR	76	1,140
	PROJECT TOTAL		**2,205**

CONSTRUCTION STAKING

CATEGORY	STATION	TO STATION	(650.8000) RESURFACING REFERENCE LF	(650.9910) SUPPLEMENTAL CONTROL (PROJECT) LS	(650.9920) SLOPE STAKES LF
0010	627+82	658+56	3,074	-	2,273
	666+10	698+70	3,260	-	1,230
	706+60	724+51	1,791	-	715
	754+68	774+83	2,015	-	500
	ID 5410-01-73		-	1	-
	PROJECT TOTALS		**10,140**	**1**	**4,718**

P.I. DATA:
P.I= STA. 627+82.24
Y= 475,122.60
X=841,332.92
Δ= 00°06'32"

GRADING LOCATION - LEFT
STA. 629+50 TO STA. 651+00

BEGIN PROJECT
STA. 627+82
Y = 475,112.36
X = 841,332.96

P.I. 627+82.24

STA. 628+47
BEGIN PULVERIZE & RELAY
OUTSIDE PAVED SHOULDER

PC: 630+01.23

STA. 630+01
BEGINNING OF FULL S.E. (2.0%)

SLOPE INTERCEPTS (TYP.)

BUTT JOINT, STA 627+82
SEE CONSTRUCTION DETAILS

STA. 628+47
BEGIN SUPERELEVATION (S.E.) TRANSITION

STA. 628+25

EDGE OF PAVEMENT (TYP.)

REMOVING ASPHALTIC SURFACE BUTT JOINT
(TRAVEL LANES, TAPERS, AND SHOULDERS)

PAVE INSIDE SHOULDER CONCURRENTLY WITH MAINLINE PAVEMENT

CURVE DATA:
P.I= STA. 639+85.23
Y= 476,300.55
X= 841,128.62
Δ= 09°50'53"
T.= 986.40'
L.= 1,968.02"
R.= 11,450'
P.C.= STA. 630+01.23
P.T.= STA. 649+69.24
S.E.= 2.0%

EXISTING ℄ PROFILE

621+00 622+00 623+00 624+00 625+00 626+00 627+00 628+00 629+00 630+00 631+00 632+00 633+00 634+00 635+00 636+00

880.00 870.00 860.00 850.00

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	PLAN AND PROFILE: USH 51 SOUTHBOUND	SHEET 95	E

FILE NAME : P:\90S\93\00093254\CADD\DESIGN\ALIPROFS\93254_ALIPROFS_SB.DWG
LAYOUT NAME - 93254_ALIPROFS_SB - 02

PLOT DATE : 3/29/2016 10:26 AM PLOT BY : ADAM RYAN PLOT NAME : PLOT SCALE : 1" = 100'_XREF

CURVE DATA:
P.I= STA. 639+85.23
Y= 476,300.55
X= 841,128.62
Δ= 09°50'53"
T.= 986.40'
L.= 1911.41'
R.= 11,450'
P.C.= STA. 630+01.23
P.T.= STA. 649+69.24
S.E.= 2.0%

N

WALLS WALLS WALLS WALLS WALLS WALLS

SIGN

USH 51

EDGE OF PAVEMENT (TYP.)

SLOPE INTERCEPTS (TYP.)

STA. 649+69.24

STA. 651+23
END PULVERIZE & RELAY
OUTSIDE PAVED SHOULDER

651+00.00

636+00 637+00 638+00 639+00 640+00 641+00 642+00 643+00 644+00 645+00 646+00 647+00 648+00 649+00 650+00 651+00

STA. 649+69
BEGIN SUPERELEVATION (S.E.) TRANSITION

STA. 651+23
BEGIN N.C.

STA 647+50 TO STA 651+00
CORRECT EXISTING NORMAL CROWN

GRADING LOCATION - LEFT
STA. 629+50 TO STA. 651+00

INL

SERVICE RD

MH

636+00.00

5

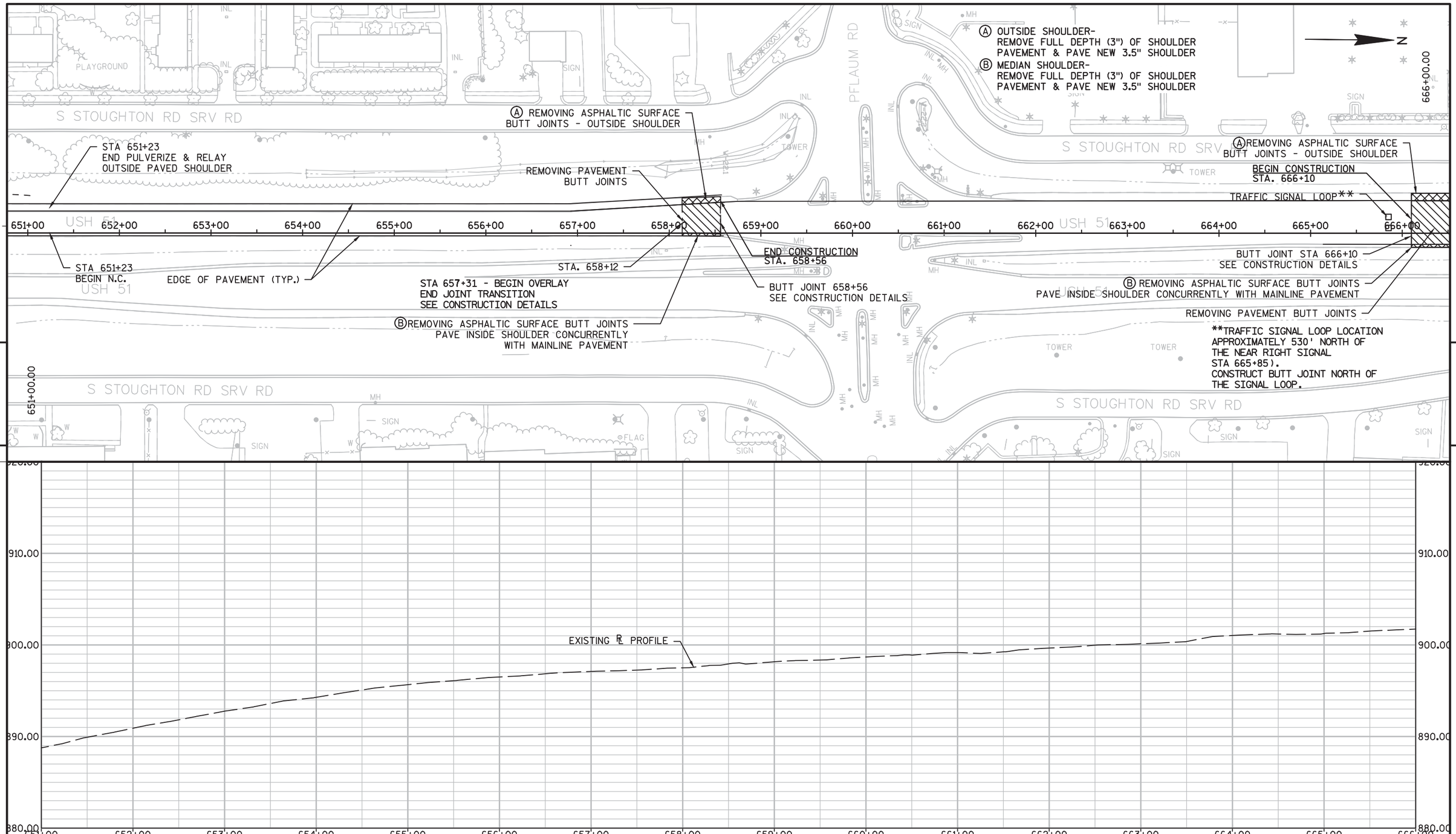
5

890.00
880.00
870.00
860.00

EXISTING ℄ PROFILE

636+00 637+00 638+00 639+00 640+00 641+00 642+00 643+00 644+00 645+00 646+00 647+00 648+00 649+00 650+00 651+00

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	PLAN AND PROFILE: USH 51 SOUTHBOUND	SHEET 96	E



PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	PLAN AND PROFILE: USH 51 SOUTHBOUND	SHEET 97	E

FILE NAME : P:\90S\93\00093254\CADD\DESIGN\ALIPROFS\93254_ALIPROFS_SB.DWG
LAYOUT NAME - 93254_ALIPROFS_SB - 04

PLOT DATE : 3/29/2016 10:28 AM PLOT BY : ADAM RYAN PLOT NAME : PLOT SCALE : 1" = 100'_XREF

WISDOT/CADDS SHEET 44

**TRAFFIC SIGNAL LOOP LOCATION APPROXIMATELY 530' NORTH OF THE NEAR RIGHT SIGNAL STA 665+90). CONSTRUCT BUTT JOINT NORTH OF THE SIGNAL LOOP.

Ⓐ OUTSIDE SHOULDER- REMOVE FULL DEPTH (3") OF SHOULDER PAVEMENT & PAVE NEW 3.5" SHOULDER
Ⓑ MEDIAN SHOULDER- REMOVE FULL DEPTH (3") OF SHOULDER PAVEMENT & PAVE NEW 3.5" SHOULDER

CURVE DATA:
P.I.= STA. 686+36.16
Y= 480,954.11
X= 841,133.77
Δ= 4°38'9"
T.= 461.43'
L.= 922.36'
R.= 11,400'
P.C.= STA. 681+74.98
P.T.= STA. 690+97.34
S.E.= 2.0%

REMOVING ASPHALTIC SURFACE Ⓐ BUTT JOINTS - OUTSIDE SHOULDER
BEGIN CONSTRUCTION STA. 666+10
STA 667+12 BEGIN TAPER
STA 668+91 END TAPER
EDGE OF PAVEMENT (TYP.)
STA 666+54
REMOVING PAVEMENT BUTT JOINTS
STA 667+35 BEGIN OVERLAY END JOINT TRANSITION SEE CONSTRUCTION DETAILS
STA 668+79 END TAPER
STA 680+21 BEGIN S.E. TRANSITION
REMOVING ASPHALTIC SURFACE BUTT JOINTS Ⓑ PAVE INSIDE SHOULDER CONCURRENTLY WITH MAINLINE PAVEMENT
BUTT JOINT STA 666+10 SEE CONSTRUCTION DETAILS
STA 680+21 BEGIN PULVERIZE & RELAY MEDIAN PAVED SHOULDER

S STOUGHTON RD SRV RD
USH 51
END DR

666+00 667+00 668+00 669+00 670+00 671+00 672+00 673+00 674+00 675+00 676+00 677+00 678+00 679+00 680+00 681+00

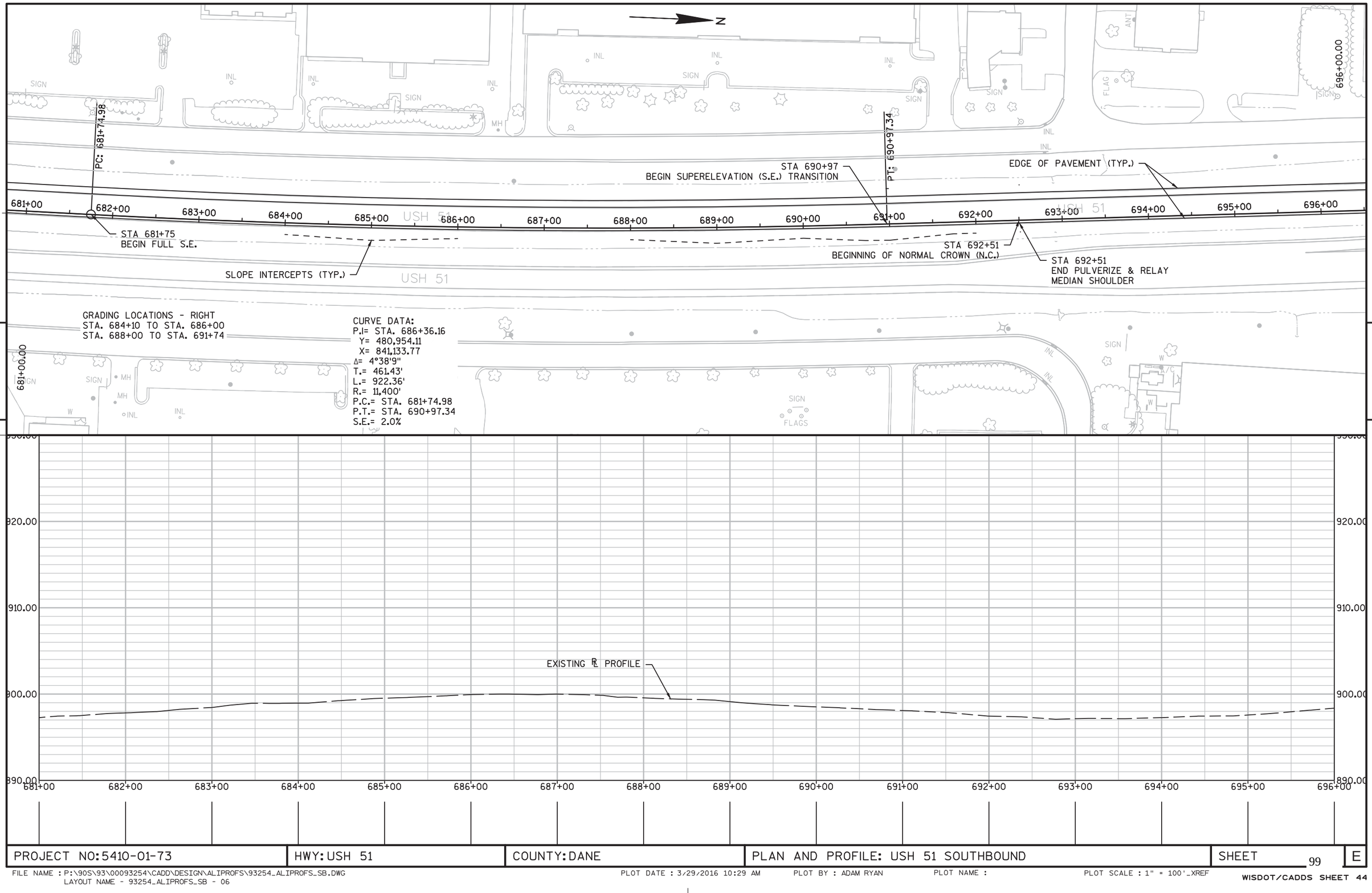
666+00.00 681+00.00

920.00 910.00 900.00 890.00

EXISTING ℄ PROFILE

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	PLAN AND PROFILE: USH 51 SOUTHBOUND	SHEET 98	E

FILE NAME : P:\90S\93\00093254\CADD\DESIGN\ALIPROFS\93254_ALIPROFS_SB.DWG
LAYOUT NAME - 93254_ALIPROFS_SB - 05
PLOT DATE : 3/29/2016 10:28 AM PLOT BY : ADAM RYAN PLOT NAME : PLOT SCALE : 1" = 100'_XREF



PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	PLAN AND PROFILE: USH 51 SOUTHBOUND	SHEET 99	E

FILE NAME : P:\90S\93\00093254\CADD\DESIGN\ALIPROFS\93254_ALIPROFS_SB.DWG
LAYOUT NAME - 93254_ALIPROFS_SB - 06

PLOT DATE : 3/29/2016 10:29 AM PLOT BY : ADAM RYAN PLOT NAME : PLOT SCALE : 1" = 100'_XREF

P.I. DATA:
P.I= STA. 697+49.82
Y= 482,064.08
X= 841,045.08
Δ= 00°01'02"

Ⓐ REMOVING ASPHALTIC SURFACE BUTT JOINTS - OUTSIDE SHOULDER

STA 697+45
BEGIN OVERLAY END JOINT TRANSITION
SEE CONSTRUCTION DETAILS

P.I. STA 697+49.82

END CONSTRUCTION STA. 698+70

STA 698+26

BUTT JOINT STA 698+70
SEE CONSTRUCTION DETAILS

REMOVING PAVEMENT BUTT JOINTS

EDGE OF PAVEMENT (TYP.)

REMOVING ASPHALTIC SURFACE BUTT JOINTS Ⓑ
PAVE INSIDE SHOULDER CONCURRENTLY WITH MAINLINE PAVEMENT

Ⓐ OUTSIDE SHOULDER-
REMOVE FULL DEPTH (3") OF SHOULDER
PAVEMENT & PAVE NEW 3.5" SHOULDER
Ⓑ MEDIAN SHOULDER-
REMOVE FULL DEPTH (3") OF SHOULDER
PAVEMENT & PAVE NEW 3.5" SHOULDER

BEGIN CONSTRUCTION STA. 706+60

TRAFFIC SIGNAL LOOP**

BUTT JOINT STA 706+60
SEE CONSTRUCTION DETAILS

Ⓑ REMOVING ASPHALTIC SURFACE BUTT JOINTS
PAVE INSIDE SHOULDER CONCURRENTLY WITH MAINLINE PAVEMENT

REMOVING ASPHALTIC SURFACE Ⓐ
BUTT JOINTS - OUTSIDE SHOULDER

SLOPE INTERCEPTS (TYP.)

STA 707+04

REMOVING PAVEMENT BUTT JOINTS

STA 707+85
BEGIN OVERLAY END JOINT TRANSITION
SEE CONSTRUCTION DETAIL

STA 710+50 BEGIN RIGHT TURN LANE TAPER

GRADING LOCATION - LEFT & RIGHT
STA. 697+00 TO STA. 698+70

GRADING LOCATION - RIGHT
STA. 706+60 TO STA. 708+75

GRADING LOCATION - LEFT
STA. 710+50 TO STA. 715+00

**TRAFFIC SIGNAL LOOP LOCATION APPROXIMATELY 530' NORTH OF THE NEAR RIGHT SIGNAL STA 706+35).
CONSTRUCT BUTT JOINT NORTH OF THE SIGNAL LOOP.

BUCKEYE RD

USH 51

696+00 697+00 698+00 699+00 700+00 701+00 702+00 703+00 704+00 705+00 706+00 707+00 708+00 709+00 710+00 711+00

EXISTING ℄ PROFILE

930.00 920.00 910.00 900.00 890.00

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	PLAN AND PROFILE: USH 51 SOUTHBOUND	SHEET 100	E

FILE NAME : P:\90S\93\00093254\CADD\DESIGN\ALIPROFS\93254_ALIPROFS_SB.DWG
LAYOUT NAME - 93254_ALIPROFS_SB - 07

PLOT DATE : 3/29/2016 10:30 AM PLOT BY : ADAM RYAN PLOT NAME : PLOT SCALE : 1" = 100'_XREF

STA 716+81.25 STA 716+93.75
MGS GUARDRAIL 3 HS
(SEE STANDARD DETAIL DRAWING
FOR: MIDWEST GUARDRAIL SYSTEM (MGS)
HALF POST SPACING FOR CONTINUOUS
UNDERGROUND OBSTRUCTION)

STA 715+25
MGS GUARD RAIL
TERMINAL TYPE 2

STA 715+00
BEGIN SHOULDER TAPER
(8' PAVED TO 10' PAVED)

MGS GUARDRAIL

REMOVING GUARDRAIL

STA 719+87.50 TO STA 720+00.00
MGS GUARDRAIL 3 HS
(SEE STANDARD DETAIL DRAWING
FOR: MIDWEST GUARDRAIL SYSTEM (MGS)
HALF POST SPACING FOR CONTINUOUS
UNDERGROUND OBSTRUCTION)

SLOPE INTERCEPTS (TYP.)

REMOVING GUARDRAIL

STA 722+60
SAWCUT EXISTING CONCRETE CURB AND GUTTER

REMOVE EXISTING CONCRETE CURB AND GUTTER

ASPHALTIC FLUME
STA 722+50

STA 721+50
EAT POST 1

STA 721+25
EAT POST 5

STA 721+00
EAT POST 9

STA 722+60 TO 724+07
MILL AUXILARY LANE TO 3% CROSS SLOPE,
BEGIN TRANSITION TO 3% AT STA 722+10

TRANSITION CURB AND GUTTER
TO MATCH EXISTING
SEE CONSTRUCTION DETAIL
REMOVING CURB & GUTTER
AND CONCRETE CURB & GUTTER
6-INCH SLOPED 30-INCH HES
TYPE J SPECIAL REQUIRED

END CONSTRUCTION
STA 724+51

575.0'

50.0' MGS EAT

STA 712+00
END RIGHT TURN
LANE TAPER

STA 723+16
BEGIN RT PAVED SHOULDER TAPER

STA 724+07
PAVE INSIDE SHOULDER CONCURRENTLY
WITH MAINLINE PAVEMENT

BUTT JOINT STA 724+51
SEE CONSTRUCTION DETAILS

REMOVING ASPHALTIC SURFACE, BUTT JOINTS
(TRAVEL LANES, AUXILIARY LANES, AND SHOULDERS)

GRADING LOCATIONS - LEFT
STA. 710+50 TO STA. 715+00
STA. 715+75 TO STA. 717+75
STA. 719+00 TO STA. 721+00

USH 51

711+00 712+00 713+00 714+00 715+00 716+00 717+00 718+00 719+00 720+00 721+00 722+00 723+00 724+00 725+00 726+00

726+00.00

711+00.00

EXISTING $\mathbb{R}$ PROFILE

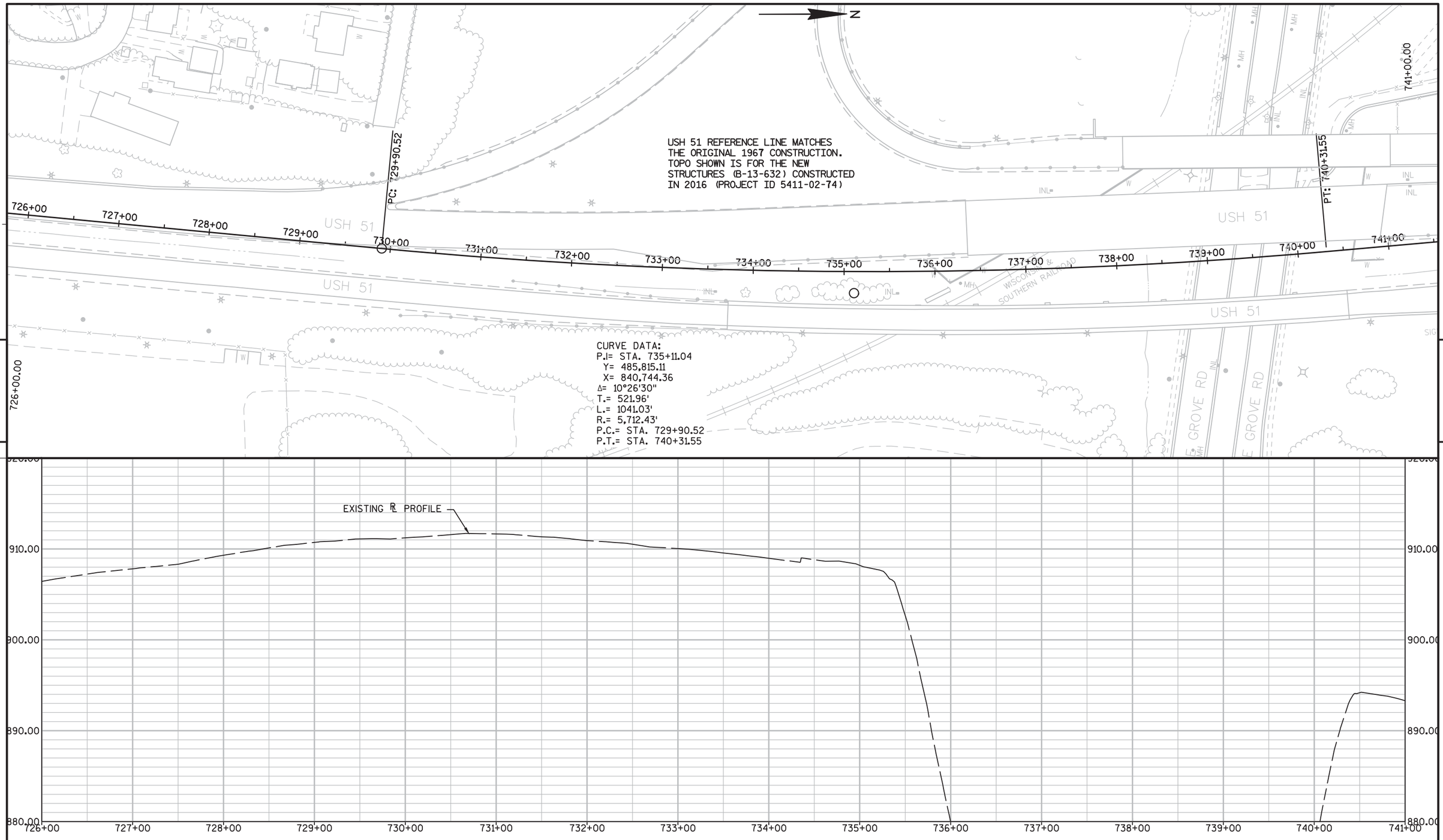
930.00 920.00 910.00 900.00 890.00

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	PLAN AND PROFILE: USH 51 SOUTHBOUND	SHEET 101	E

FILE NAME : P:\90S\93\00093254\CADD\DESIGN\ALIPROFS\93254_ALIPROFS_SB.DWG
LAYOUT NAME - 93254_ALIPROFS_SB - 08

PLOT DATE : 3/29/2016 10:31 AM PLOT BY : ADAM RYAN PLOT NAME : PLOT SCALE : 1" = 100'_XREF

WISDOT/CADDS SHEET 44



PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	PLAN AND PROFILE: USH 51 SOUTHBOUND	SHEET 102	E

FILE NAME : P:\90S\93\00093254\CADD\DESIGN\ALIPROFS\93254_ALIPROFS_SB.DWG
LAYOUT NAME - 93254_ALIPROFS_SB - 09

PLOT DATE : 3/29/2016 10:31 AM PLOT BY : ADAM RYAN PLOT NAME : PLOT SCALE : 1" = 100'_XREF

WISDOT/CADDS SHEET 44

USH 51 REFERENCE LINE MATCHES
THE ORIGINAL 1967 CONSTRUCTION.
TOPO SHOWN IS FOR THE NEW
STRUCTURES (B-13-632) CONSTRUCTED
IN 2016 (PROJECT ID 5411-02-74)

N

P.I. 744+23.40

STA 754+68 TO 755+68
MATCH 12' PAVED SHOULDER &
TRANSITION TO 8' PAVED SHOULDER

REMOVING ASPHALTIC SURFACE BUTT JOINTS
(TRAVEL LANES & SHOULDERS)

BUTT JOINT STA 754+68
SEE CONSTRUCTION DETAILS

BEGIN CONSTRUCTION
STA 754+68

STA 755+12

PAVE INSIDE SHOULDER CONCURRENTLY
WITH MAINLINE PAVEMENT

USH 51

P.I. DATA:
P.I.= STA. 744+23.40
Y= 486,697.68
X= 840,507.45
Δ= 00°02'11"

741+00 742+00 743+00 744+00 745+00 746+00 747+00 748+00 749+00 750+00 751+00 752+00 753+00 754+00 755+00 756+00

741+00.00 756+00.00

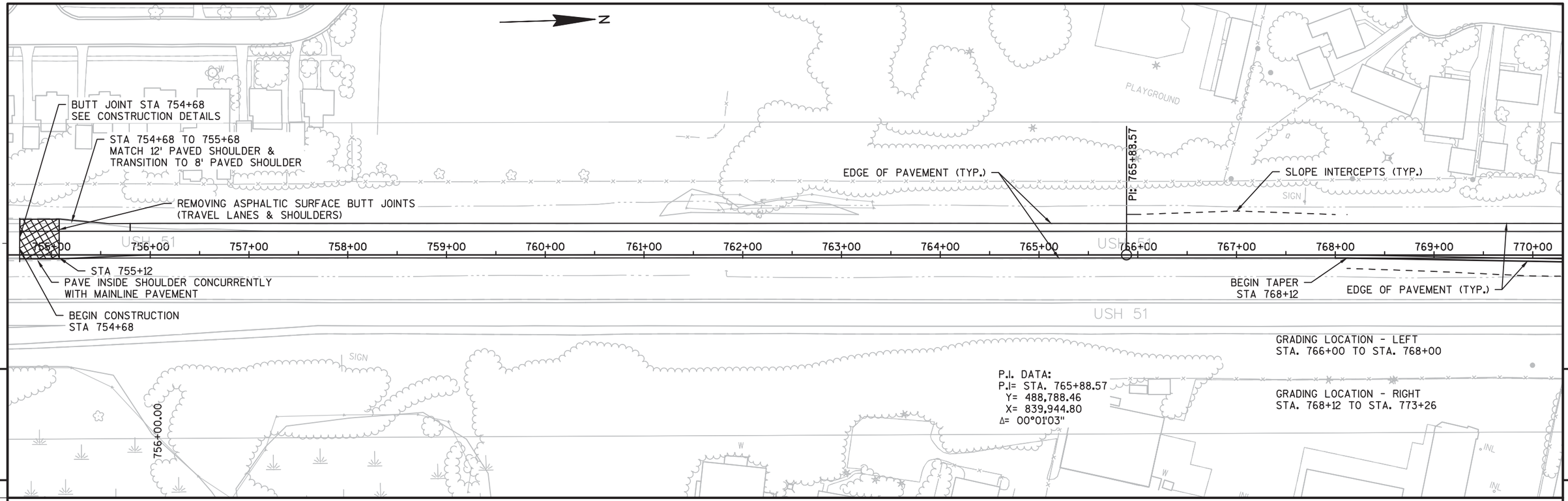
890.00 880.00 870.00 860.00

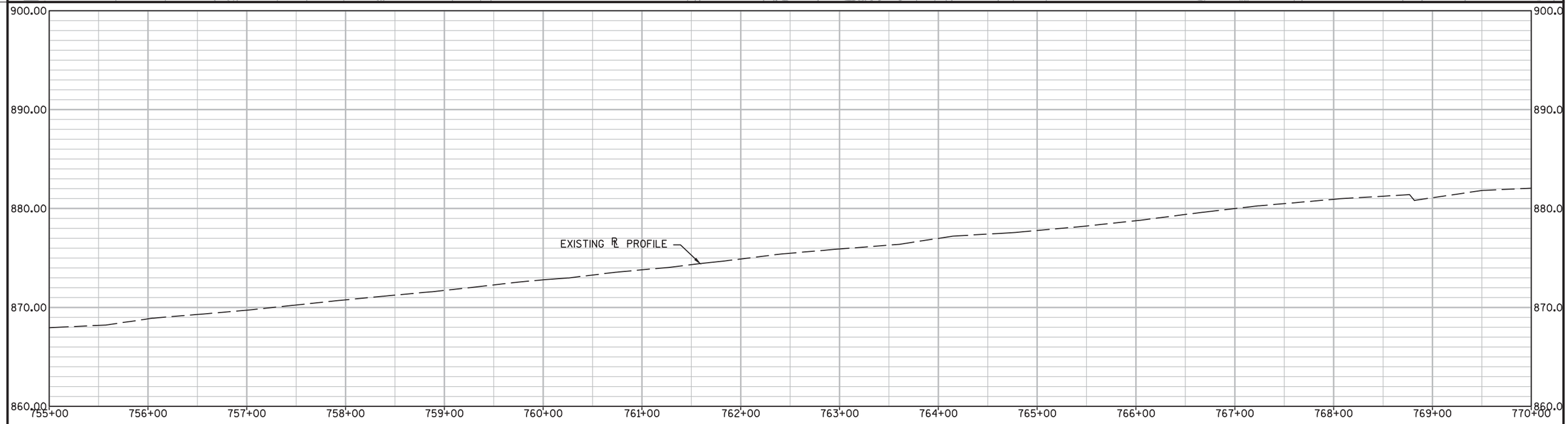
EXISTING ℄ PROFILE

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	PLAN AND PROFILE: USH 51 SOUTHBOUND	SHEET 103	E

FILE NAME : P:\90S\93\00093254\CADD\DESIGN\ALIPROFS\93254_ALIPROFS_SB.DWG
LAYOUT NAME - 93254_ALIPROFS_SB - 10

PLOT DATE : 3/29/2016 10:32 AM PLOT BY : ADAM RYAN PLOT NAME : PLOT SCALE : 1" = 100'_XREF



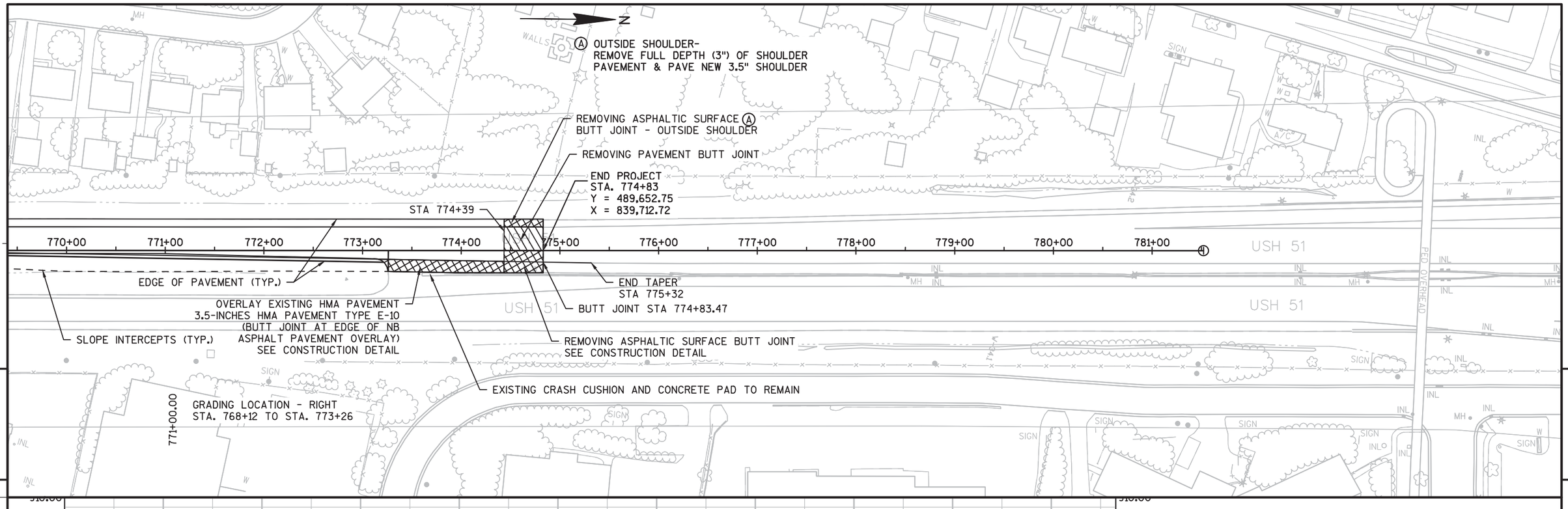


PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	PLAN AND PROFILE: USH 51 SOUTHBOUND	SHEET 104	E

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LAYOUT NAME - 93254_ALIPROFS_SB - 11

PLOT DATE : 3/29/2016 10:33 AM PLOT BY : ADAM RYAN PLOT NAME : PLOT SCALE : 1" = 100'_XREF

WISDOT/CADDS SHEET 44

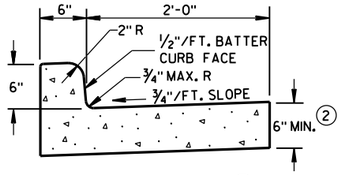


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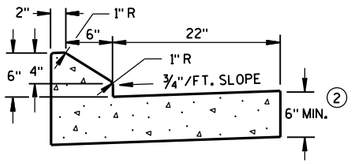
Standard Detail Drawing List

08D01-18	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
13A05-05A	SHOULDER RUMBLE STRIP, MILLING
13A05-05B	SHOULDER RUMBLE STRIP, MILLING
13C14-06A	BASE PATCHING CONCRETE
13C14-06B	BASE PATCHING CONCRETE
13C14-06C	BASE PATCHING CONCRETE
14B29-01	SAFETY EDGE
14B42-03A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-03B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-03C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-02A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B47-02A	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-02B	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-02C	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
15C07-12B	PAVEMENT MARKING WORDS
15C07-12C	PAVEMENT MARKING ARROWS
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16E	PAVEMENT MARKING (LEFT TURN LANE)
15C19-03C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15C31-01A	PAVEMENT MARKING (RAMPS AND GORES)
15C31-01B	LANE DROP PAVEMENT MARKING
15C31-01D	PAVEMENT MARKING FOR PARALLEL ON-RAMP AND PARALLEL OFF-RAMP
15C33-01	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D12-06A	TRAFFIC CONTROL, LANE CLOSURE
15D15-02	TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE
15D27-02	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH

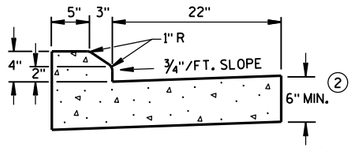
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TYPES A & D ①

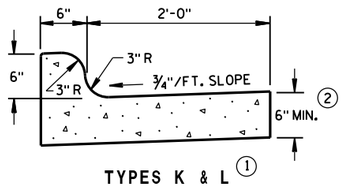


6" SLOPED CURB TYPES G & J ①

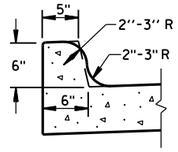


4" SLOPED CURB TYPES G & J ①

CONCRETE CURB & GUTTER 30"

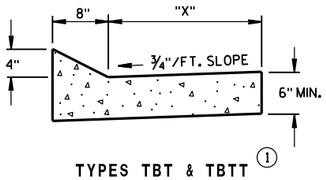


TYPES K & L ①



OPTIONAL CURB SHAPE FOR TYPES K & L ①

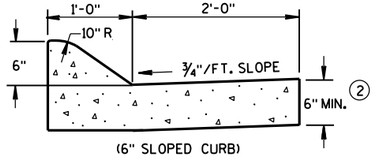
CONCRETE CURB & GUTTER 30"



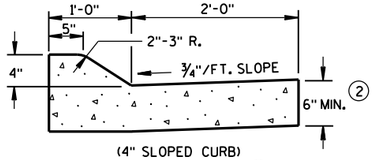
TYPES TBT & TBTT ①

CONCRETE CURB & GUTTER

TBT & TBTT	"X"
30"	22"
36"	28"

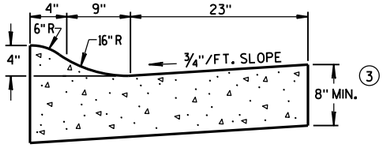


(6" SLOPED CURB)



(4" SLOPED CURB)

TYPES A & D ①



4" SLOPED CURB TYPES R & T ① ④

CONCRETE CURB & GUTTER 36"

GENERAL NOTES

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

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

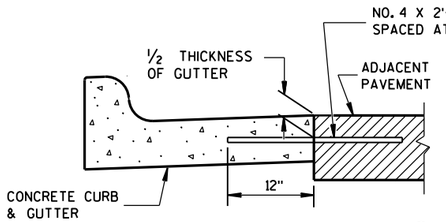
① TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

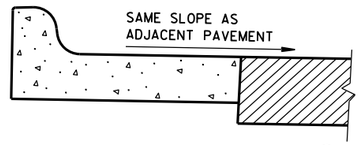
③ THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

④ THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

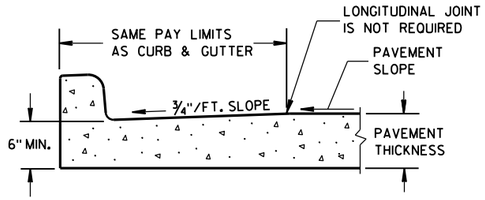
⑤ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.



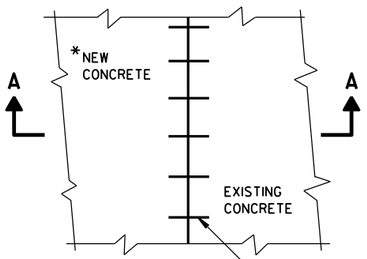
TYPICAL TIE BAR LOCATION ①



REVERSE SLOPE GUTTER ⑤
(TYPICAL FOR ALL CURB & GUTTER TYPES)

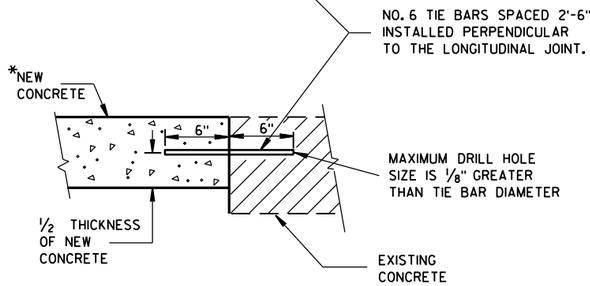


PARTIAL SECTION OF PAVEMENT
WITH INTEGRAL CURB & GUTTER



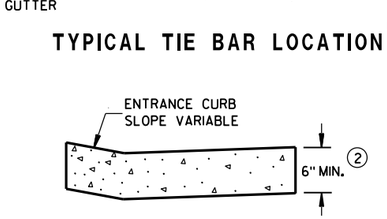
PLAN VIEW

*NEW CURB & GUTTER, SURFACE DRAINS, CONCRETE PAVEMENT OR OTHER NEW CONCRETE.

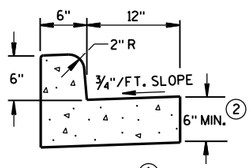


SECTION A-A

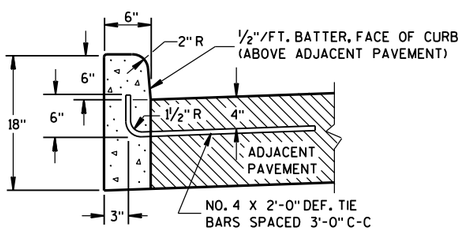
TIE BARS DRILLED
INTO EXISTING PAVEMENT



DRIVEWAY ENTRANCE CURB
(WHEN DIRECTED BY THE ENGINEER)

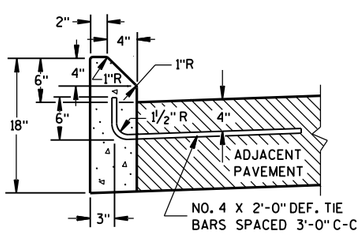


①
TYPES A & D
CONCRETE CURB & GUTTER 18"

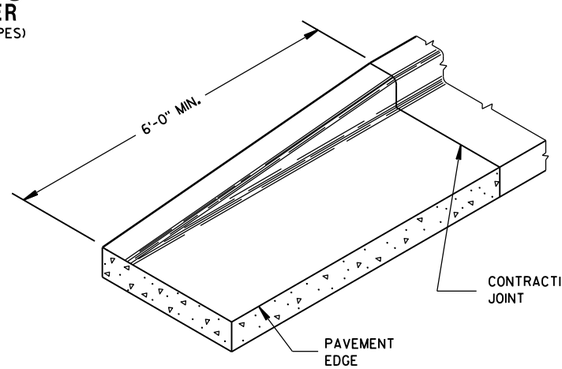


①
TYPES A & D

CONCRETE CURB



①
TYPES G & J



END SECTION CURB & GUTTER

CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

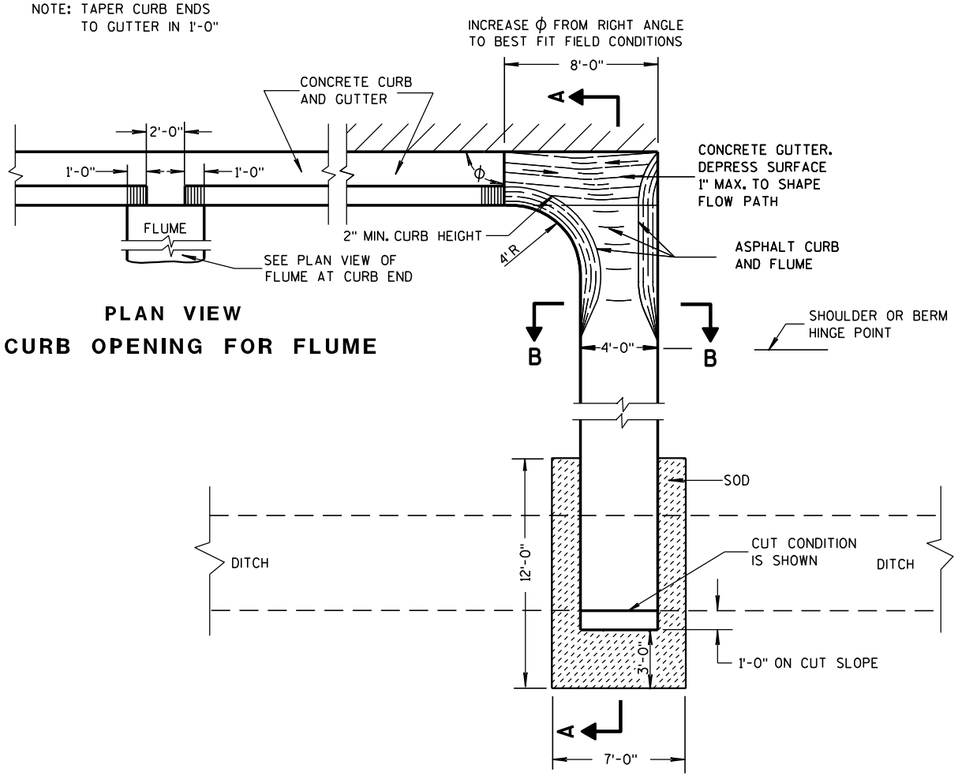
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S.D.D. 8 D 1-18

6

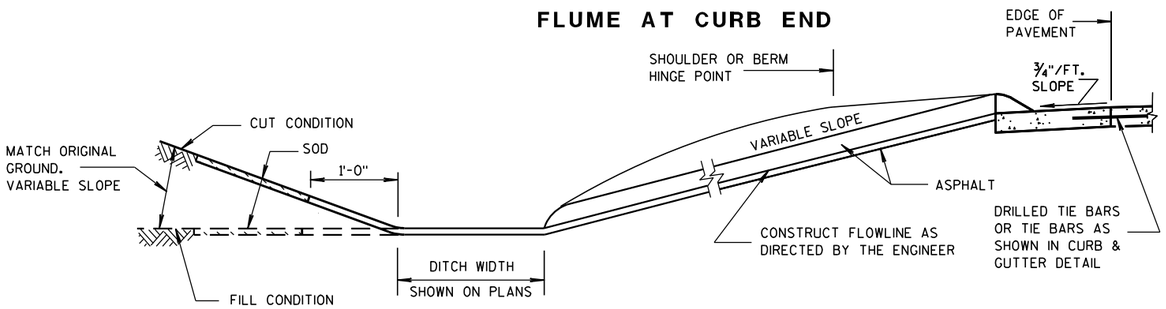
S.D.D. 8 D 1-18

ASPHALTIC FLUME

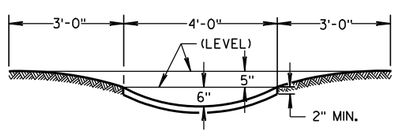


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

GENERAL NOTES

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

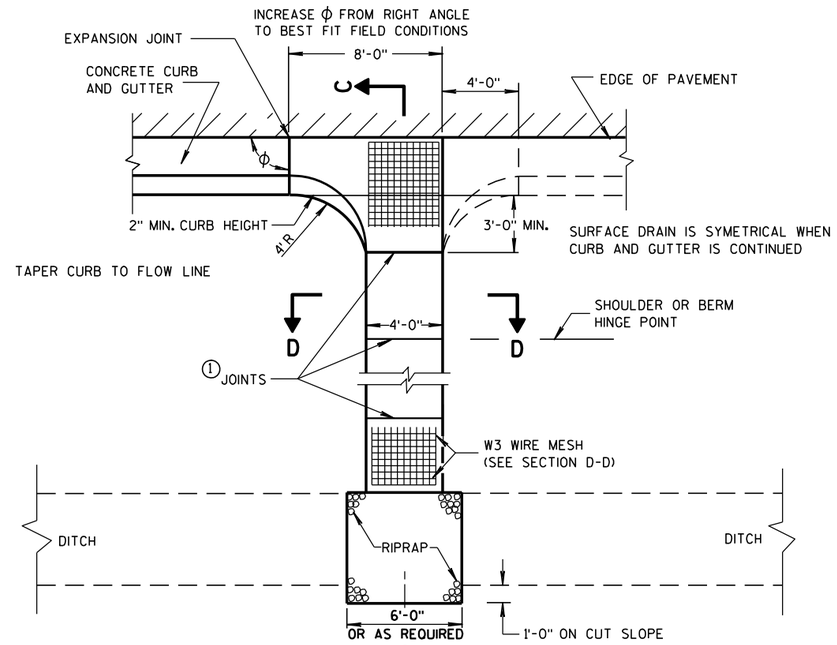
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE $\frac{1}{8}$ TO $\frac{1}{4}$ INCH WIDE BY $1\frac{1}{2}$ INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

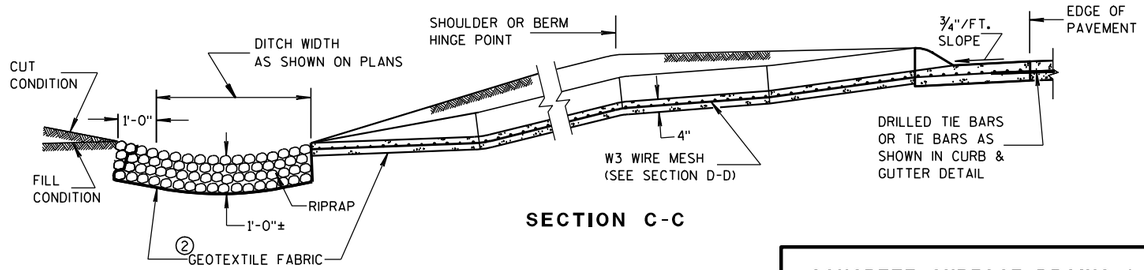
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

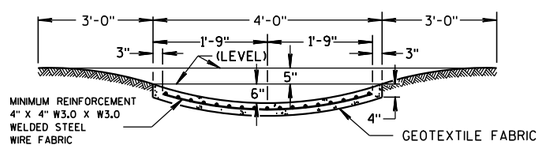
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

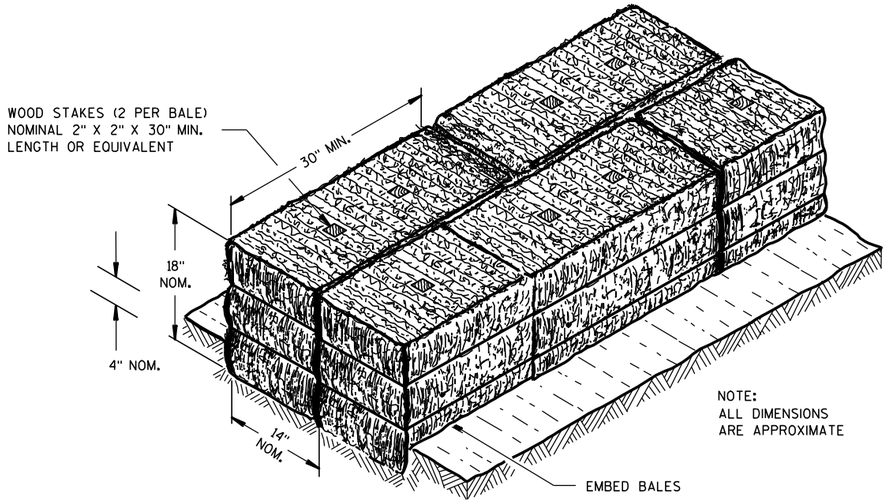
APPROVED
9-4-08 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
108
MENT
FHWA

6

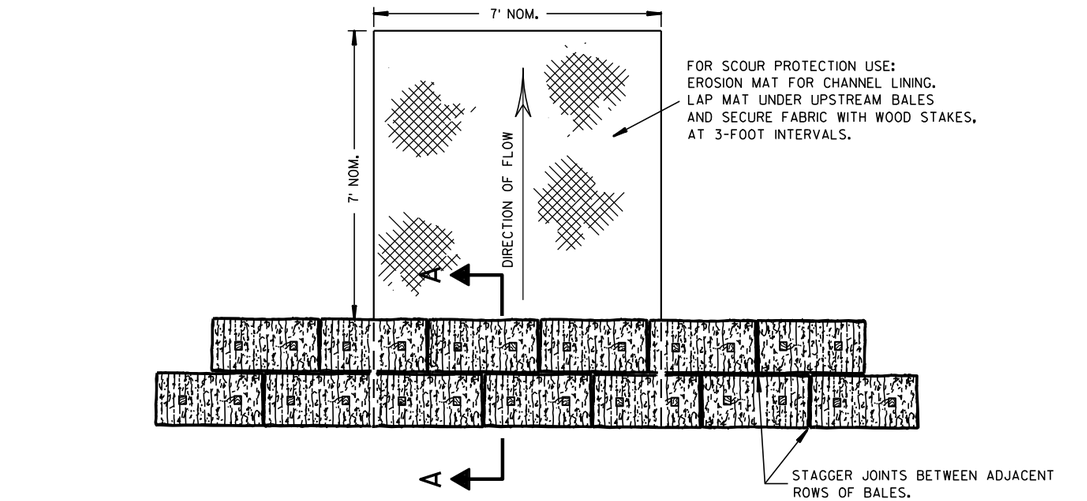
S.D.D. 8 D 4-5

6

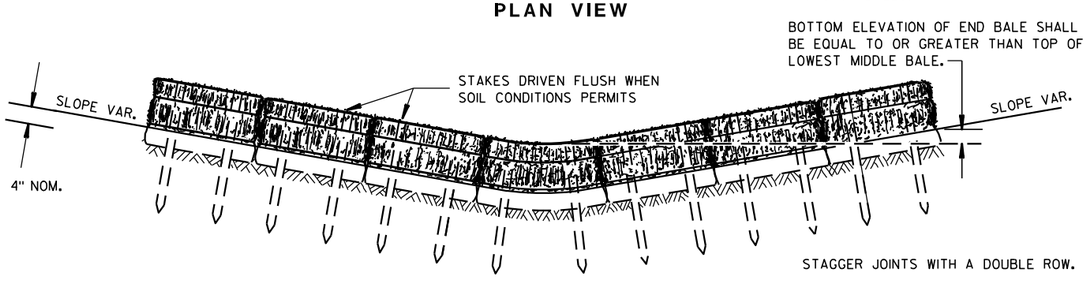
S.D.D. 8 D 4-5



SECTION A-A



PLAN VIEW



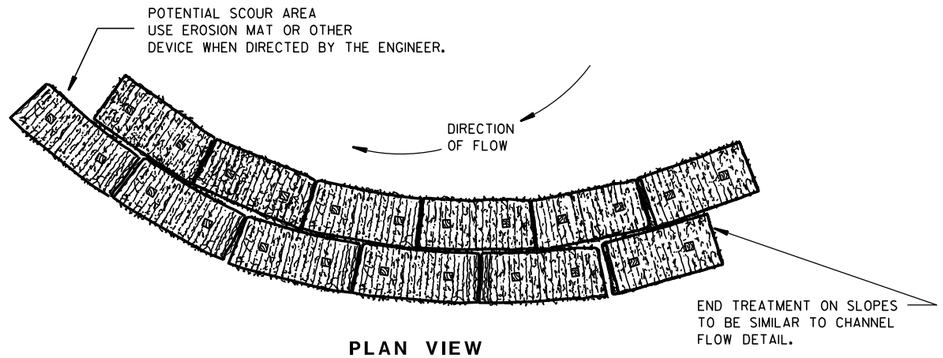
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

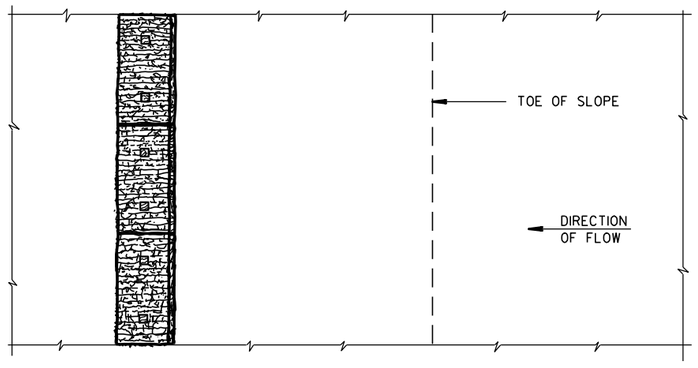
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

① TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

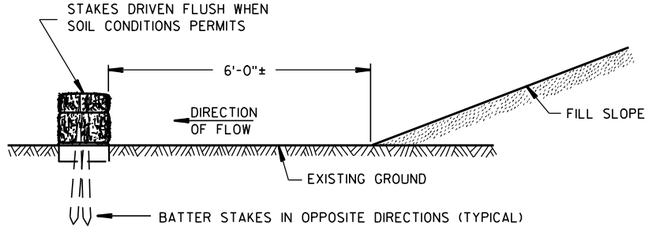


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

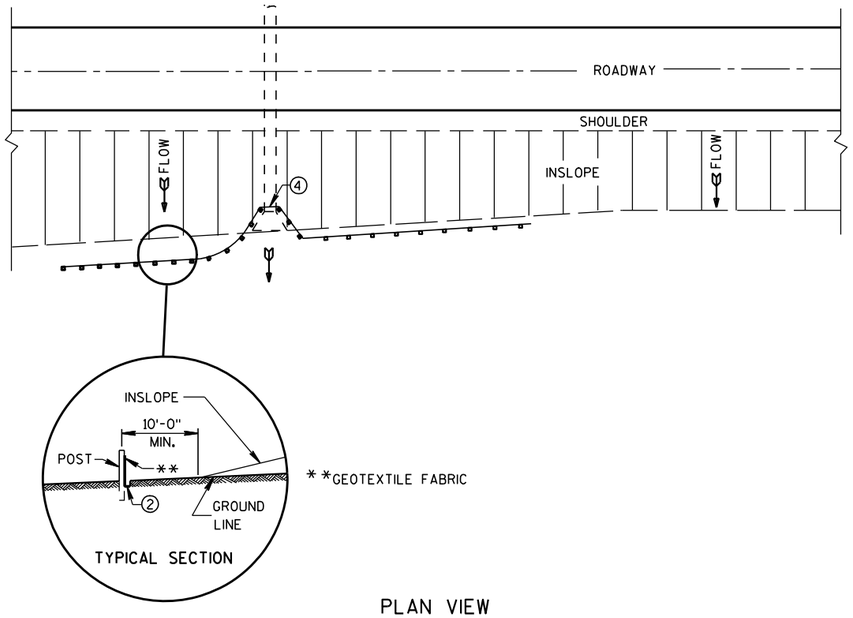
WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

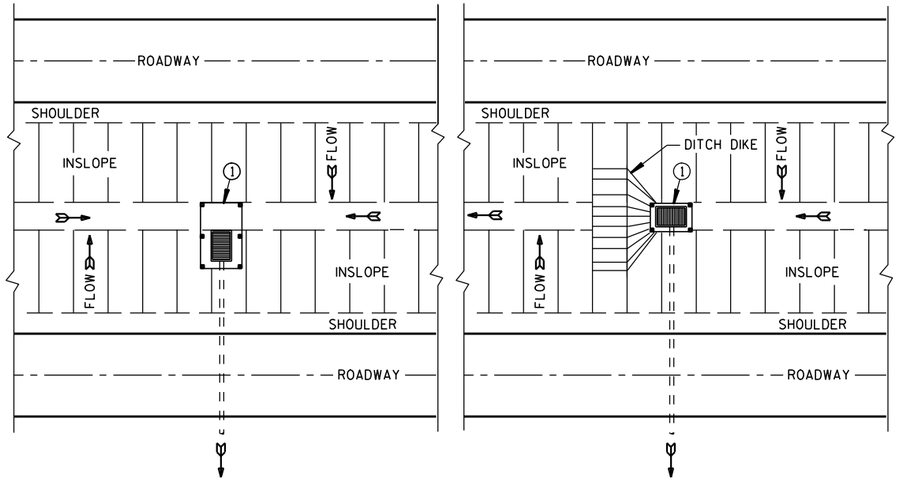
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/04/02 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

GENERAL NOTES

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

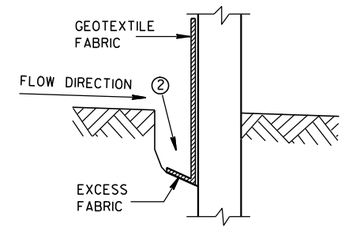
① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.

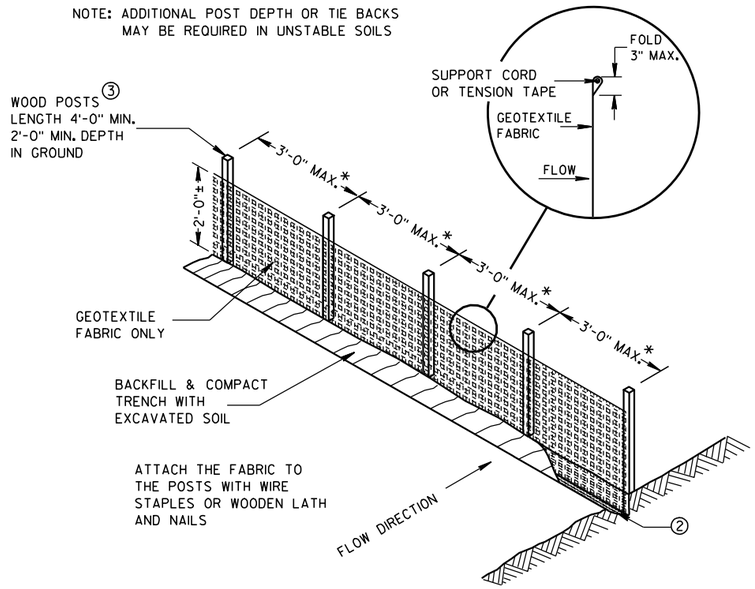
③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.

④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.

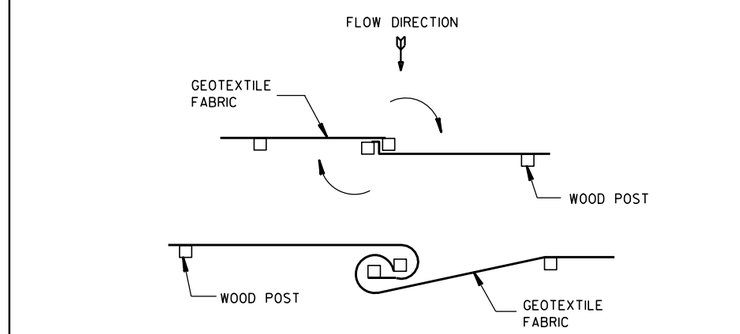
⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



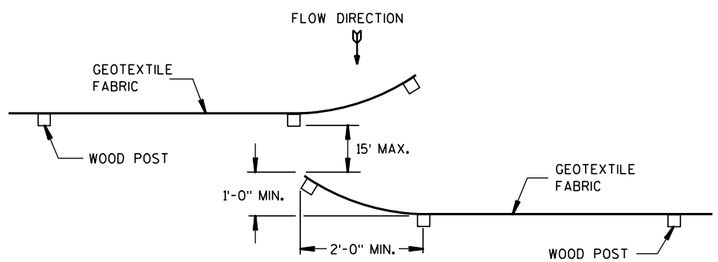
TRENCH DETAIL



SILT FENCE

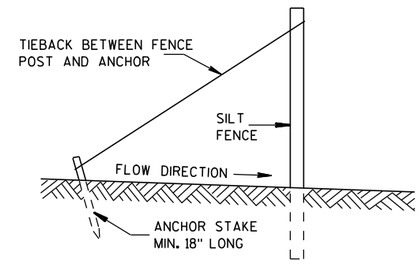


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE ⑤



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

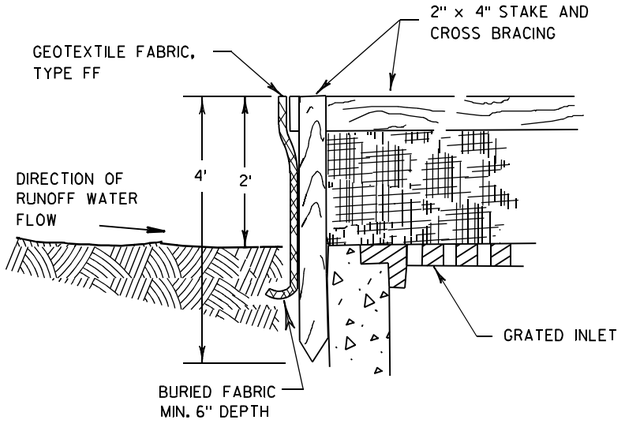
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

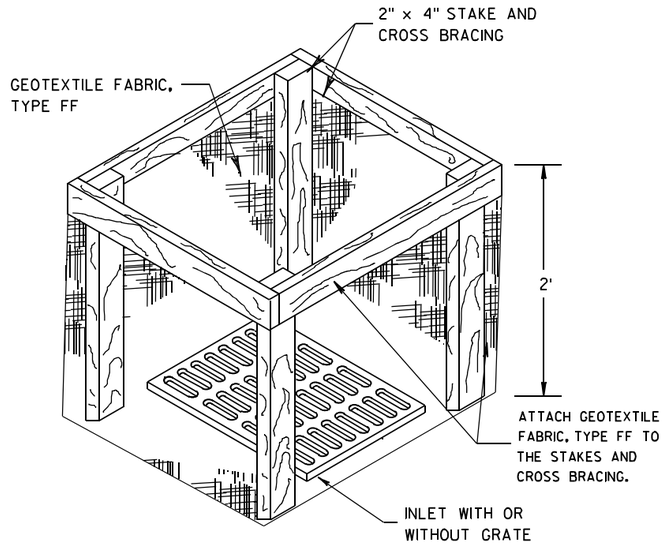
6

S.D.D. 8 E 9-6

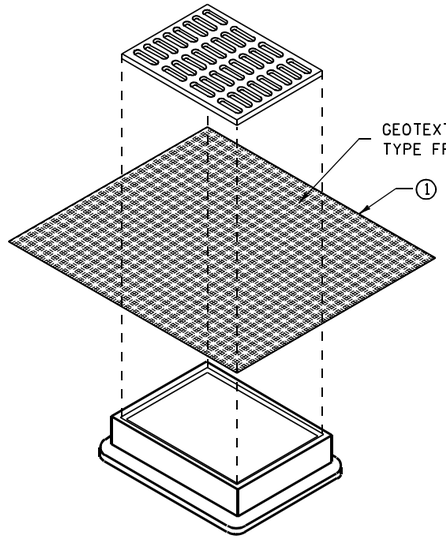
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S.D.D. 8 E 9-6



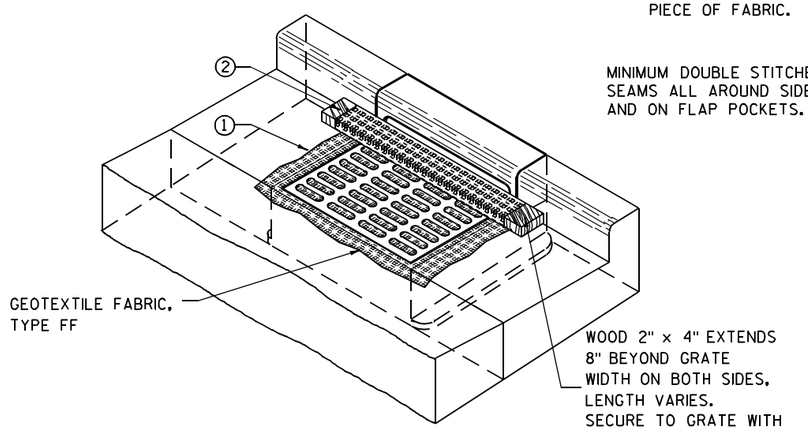


INLET PROTECTION, TYPE A

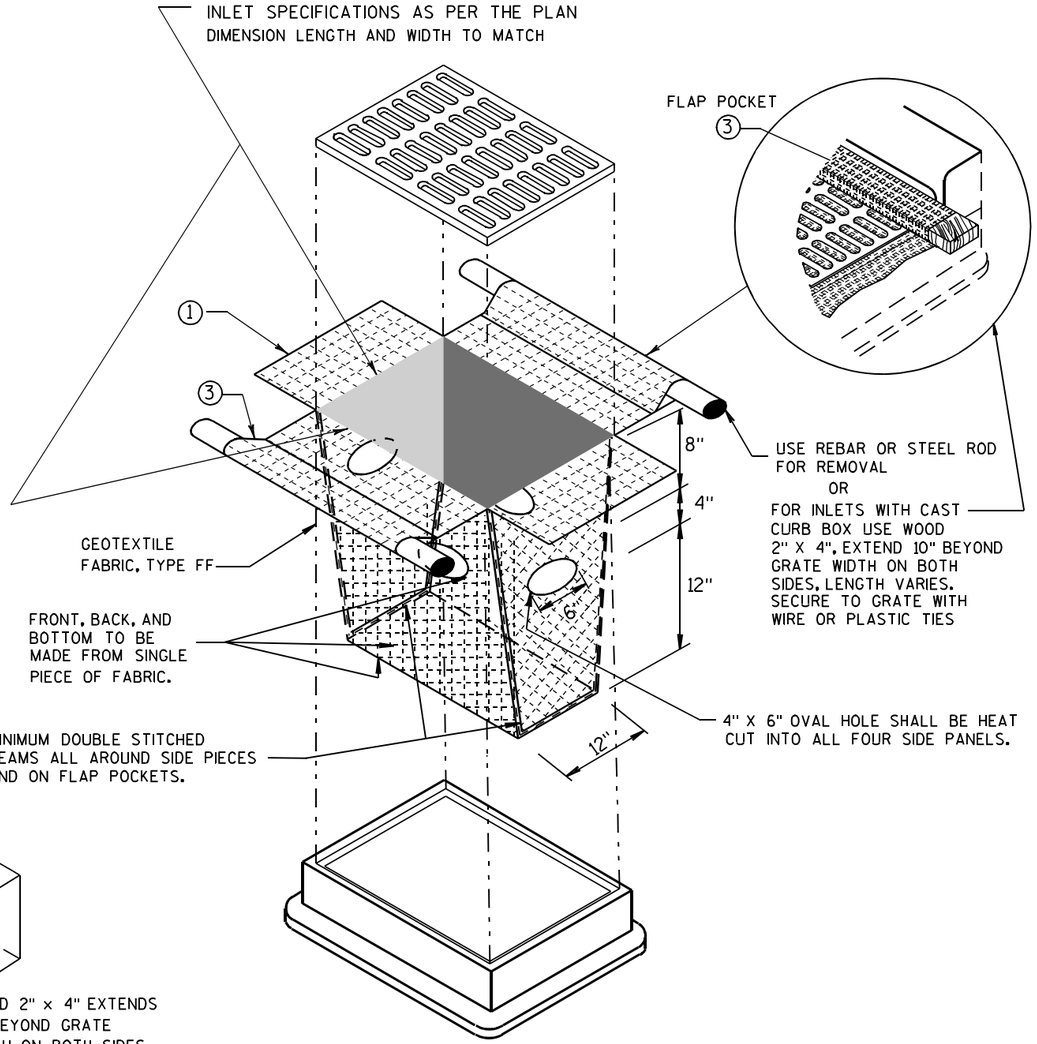


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)

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 SUBSTITUTED.

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.

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
DATE

/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

6

S.D.D. 8 E 10-2

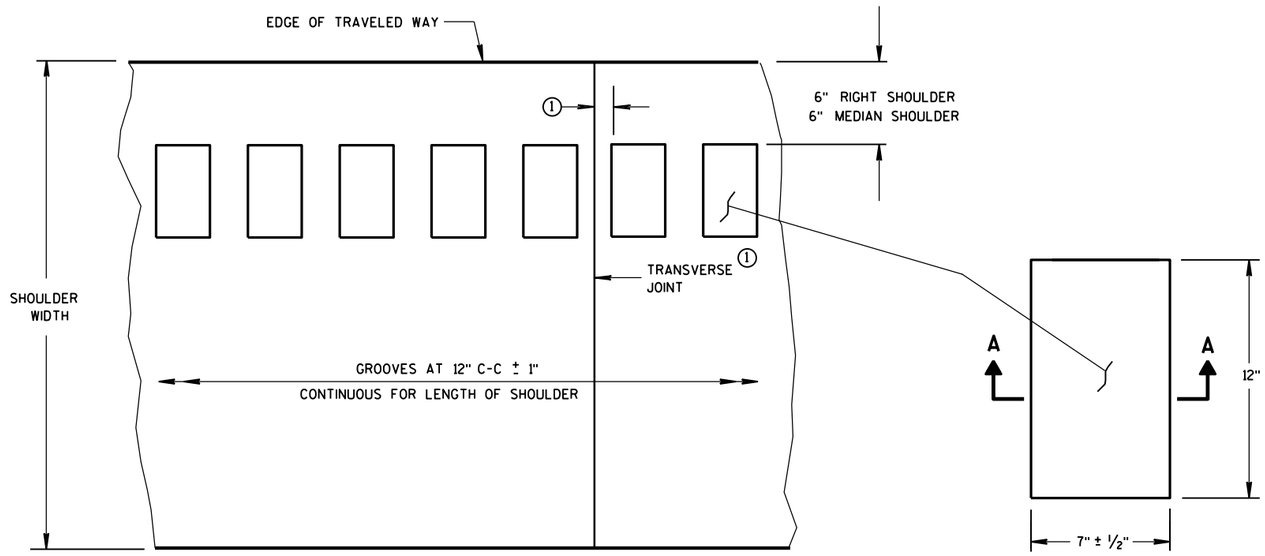
GENERAL NOTES

DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

RUMBLE STRIPS ON EXPRESSWAYS

DO NOT INSTALL RUMBLE STRIPS ACROSS SIDE ROAD INTERSECTIONS, COMMERCIAL DRIVEWAYS, PRIVATE DRIVEWAYS OR ADJACENT TO RIGHT TURN LANES, LEFT TURN LANES, TURN LANE TAPERS, BRIDGE DECKS, BRIDGE APPROACHES, OR 100 FEET IN ADVANCE OF RAILROAD CROSSING. THE ATTACHED STANDARD DETAIL DRAWING SHOWS THE LOCATION OF THE RUMBLE STRIPS AT INTERCHANGE AREAS.

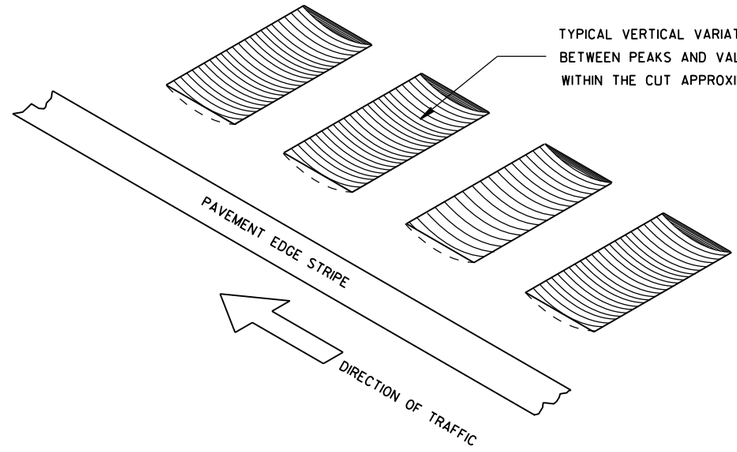
(1) CONCRETE PAVEMENT - RUMBLE STRIPS SHALL BE A MINIMUM OF 6" AWAY FROM TRANSVERSE JOINTS.



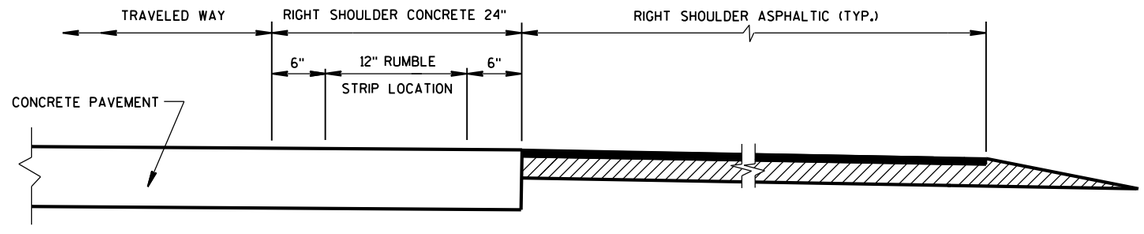
PLAN VIEW
SHOULDER WITH GROOVES

PLAN VIEW
(SINGLE GROOVE)

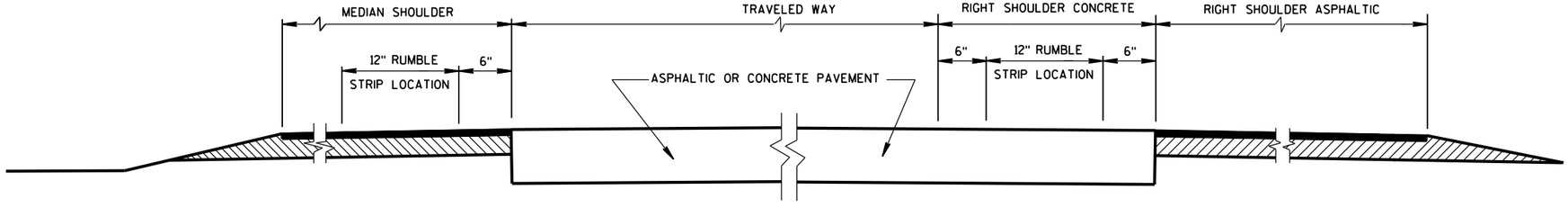
PLACEMENT DETAIL FOR MILLED RUMBLE STRIP



ISOMETRIC

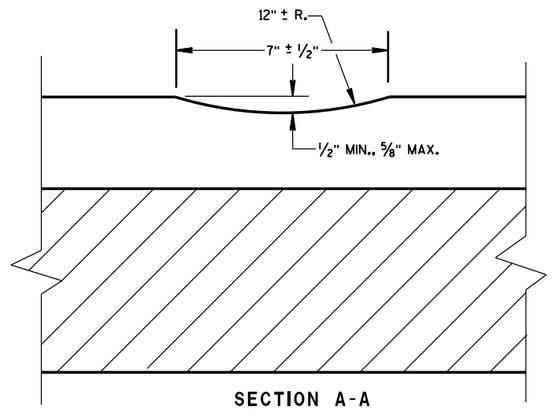


SECTION VIEW
CONCRETE PAVEMENT EXTENDS INTO RIGHT SHOULDER)



SECTION VIEW

TYPICAL LOCATIONS OF SHOULDER RUMBLE STRIPS
IN RURAL DIVIDED HIGHWAYS
(ONE ROADWAY IS SHOWN)



SECTION A-A

SHOULDER RUMBLE STRIP, MILLING

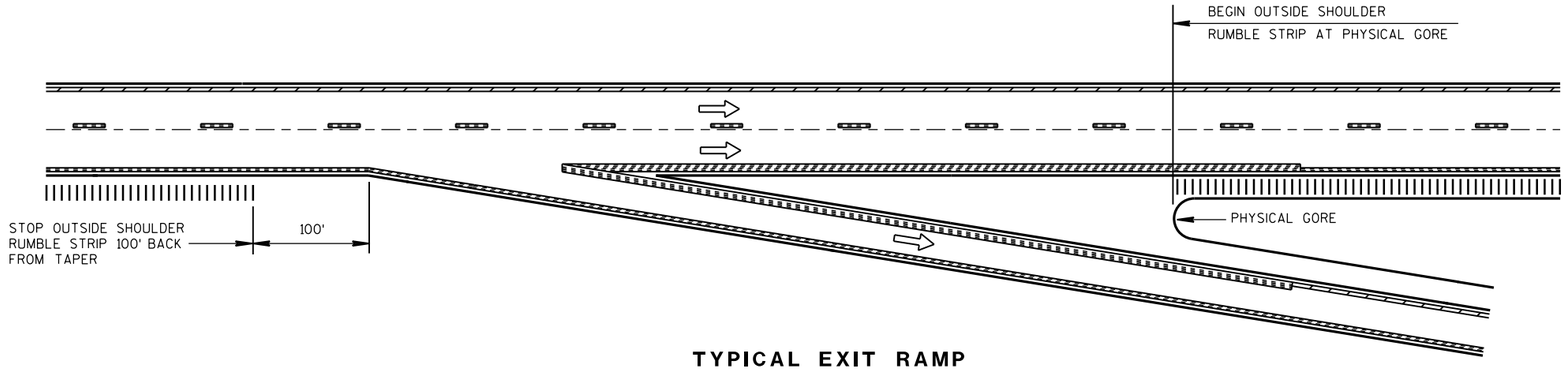
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 13 A 5-5a

6

S.D.D. 13 A 5-5a



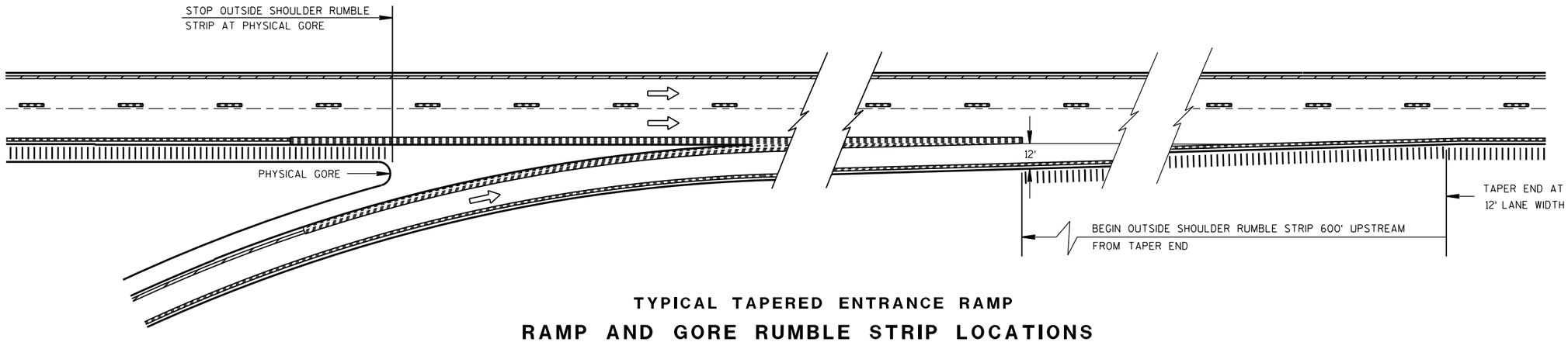
TYPICAL EXIT RAMP

NOTES:

NO RUMBLE STRIP ON EXIT, DIRECTIONAL, OR ENTRANCE RAMPS, EXCEPT NEAR THE ENTRANCE TAPER END AND ALONG THE PARALLEL RAMP AREA AS SHOWN.

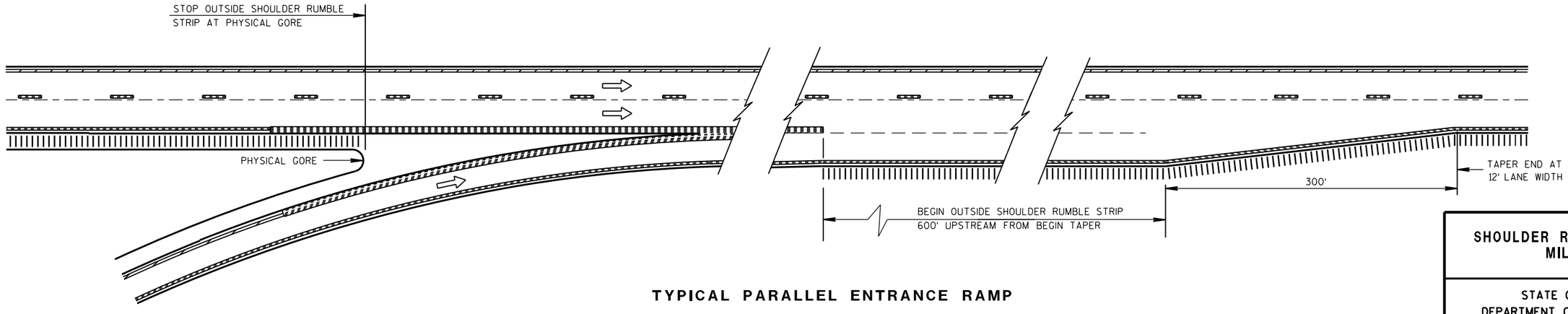
PAVEMENT MARKING DETAILS AND SPECIFICATIONS ARE PROVIDED ELSEWHERE IN THE CONTRACT.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL



TYPICAL TAPERED ENTRANCE RAMP

RAMP AND GORE RUMBLE STRIP LOCATIONS



TYPICAL PARALLEL ENTRANCE RAMP

RAMP AND GORE RUMBLE STRIP LOCATIONS

SHOULDER RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12/17/2012 — DATE
/S/ Jerry H. Zoga — ROADWAY STANDARDS ENGINEER
FHWA

6

S.D.D. 13 A 5-5b

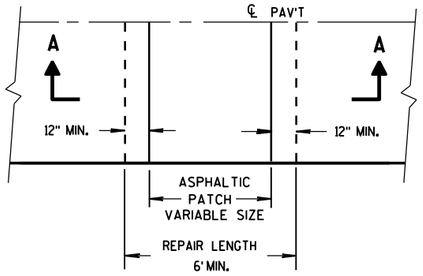
GENERAL NOTES

SAW CUT, DRILL, AND LIFT OUT EXISTING CONCRETE PAVEMENT WITHIN THE BOUNDARIES OF CONCRETE REPAIR AREAS. THE CONTRACTOR MAY MAKE ADDITIONAL SAW CUTS INSIDE THE REPAIR LIMITS TO REDUCE WEIGHT AND SIZE OF CONCRETE PIECES.

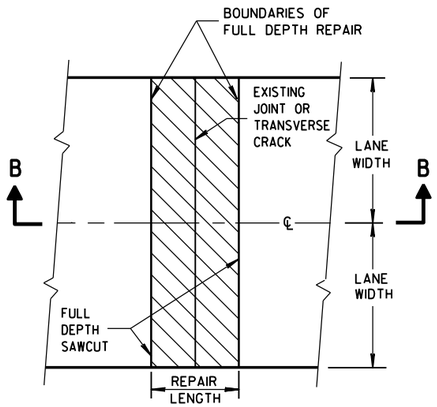
PROVIDE 6-FOOT MINIMUM DISTANCE FROM BOUNDARIES OF CONCRETE REPAIR AREAS TO ADJACENT TRANSVERSE JOINT OR CRACK.

THE LENGTH OF THE REPAIRS MAY VARY FROM THE DIMENSIONS SHOWN IF THE EXISTING CONCRETE PAVEMENT IS NONDOWELED AND THE PAVEMENT IS TO BE OVERLAID AFTER REPAIRING.

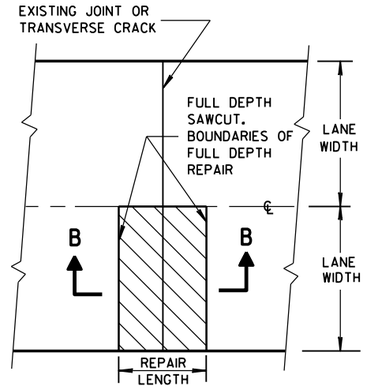
(1) DOWEL BARS MIGHT NOT EXIST.



PLAN VIEW

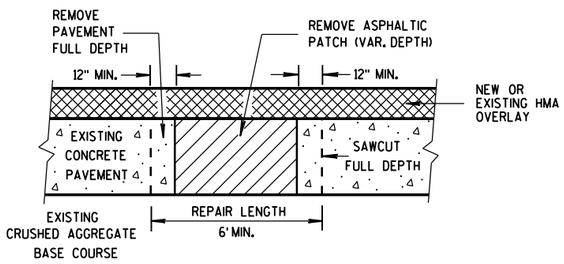


PLAN VIEW
(DOUBLE LANE REPAIR)



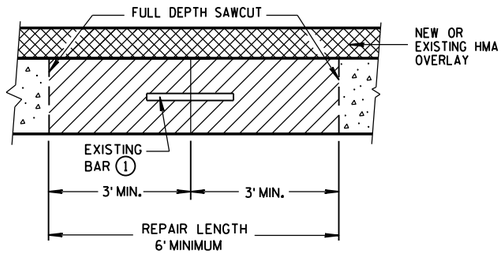
PLAN VIEW
(SINGLE LANE REPAIR)

FULL DEPTH CONCRETE PAVEMENT REMOVAL



SECTION A-A

HMA PATCH REMOVAL



SECTION B-B

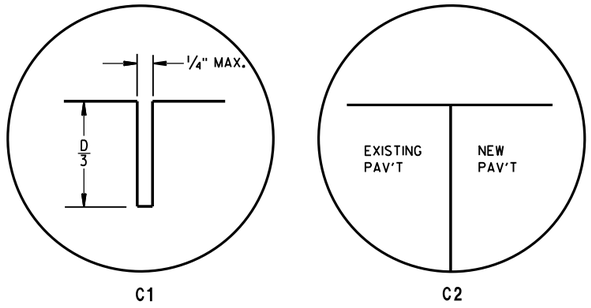
CONCRETE REMOVAL

BASE PATCHING CONCRETE

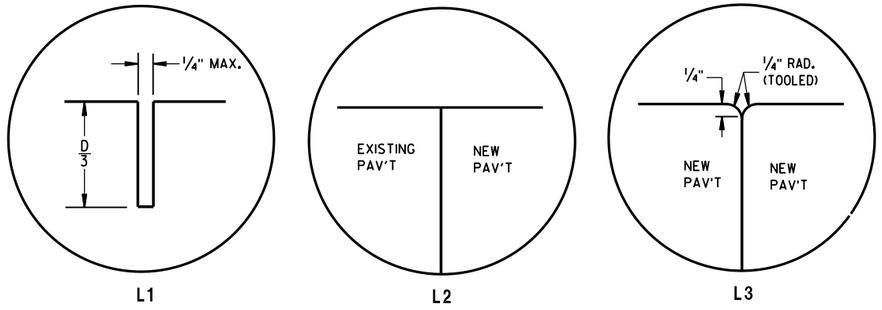
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

S.D.D. 13 C 14-6a

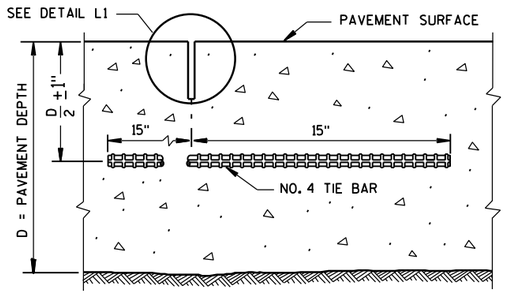
S.D.D. 13 C 14-6a



TRANSVERSE JOINTS

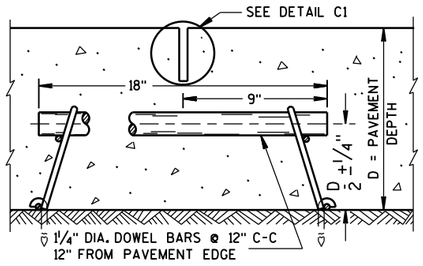


LONGITUDINAL JOINTS



SECTION C-C

SAWED LONGITUDINAL JOINT



SECTION F-F

CONTRACTION JOINT

GENERAL NOTES

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

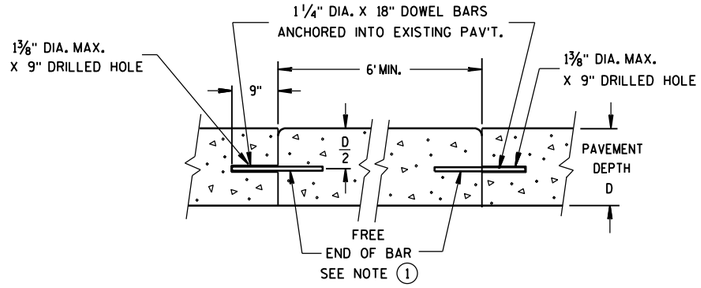
CONCRETE BASE PATCHES OF EXISTING NONDOWELED CONCRETE PAVEMENTS DO NOT NEED TO BE DOWELED.

DO NOT SEAL OR FILL JOINTS.

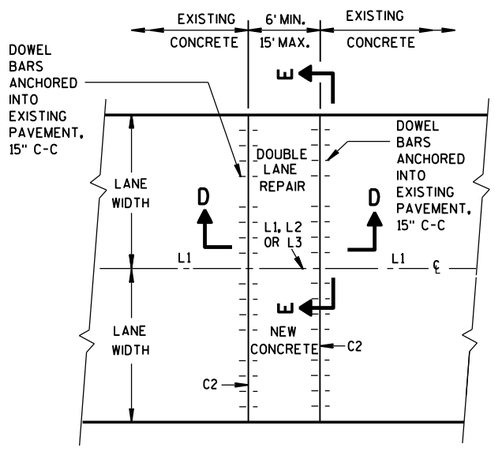
ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

PROVIDE A MINIMUM DISTANCE OF 15 INCHES FROM AN EXISTING TRANSVERSE JOINT OR THE EDGE OF REPLACEMENT TO THE CENTER OF THE TIE BAR NEAREST THAT JOINT OR EDGE.

(1) APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

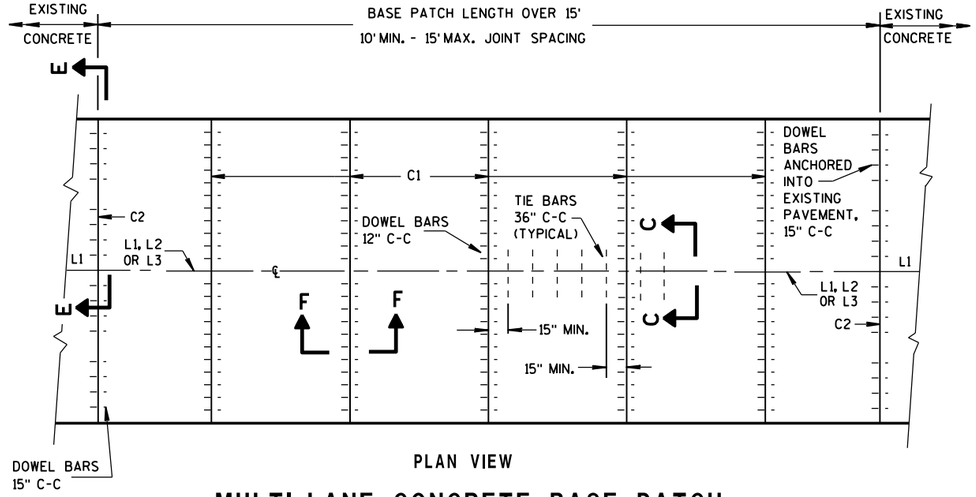


SECTION D-D



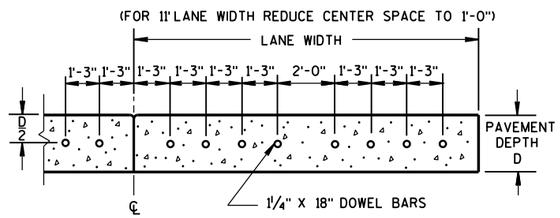
PLAN VIEW

MULTI-LANE CONCRETE BASE PATCH 15' MAXIMUM LENGTH



PLAN VIEW

MULTI-LANE CONCRETE BASE PATCH GREATER THAN 15' IN LENGTH



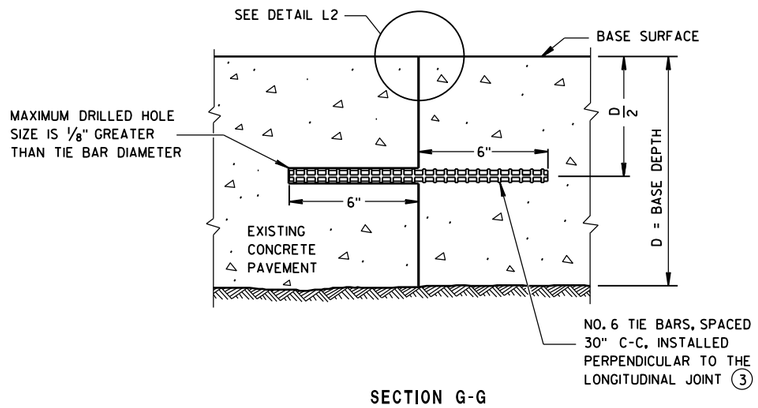
SECTION E-E

SPACING OF DOWEL BARS ANCHORED INTO EXISTING PAVEMENT

BASE PATCHING CONCRETE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 13 C 14-6b



SECTION G-G

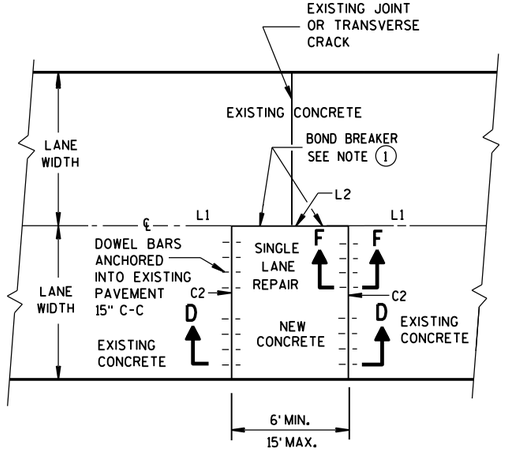
TIE BARS ANCHORED INTO EXISTING PAVEMENT

GENERAL NOTES

(1) USE AN ENGINEER-APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) FOR SINGLE LANE BASE PATCHES UP TO 15 FEET IN LENGTH.

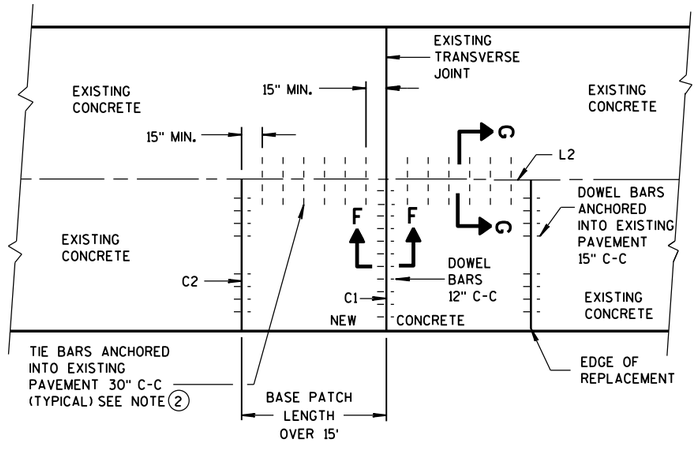
(2) WITH THE APPROVAL OF THE ENGINEER, FOR SINGLE LANE PAVEMENT REPLACEMENTS LESS THAN 30 FEET IN LENGTH, DRILLED TIE BARS MAY BE INSTALLED ON 6:1 SKEW HORIZONTALLY, DIRECTION OF SKEW ALTERNATING WITH EACH SUCCESSIVE BAR. DRIVE SKEWED TIE BARS TO A DEPTH OF 6 INCHES IN A HOLE OF SUCH A DIAMETER AS TO PROVIDE A TIGHT DRIVEN FIT.

(3) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



PLAN VIEW

SINGLE LANE CONCRETE BASE PATCH 15' MAXIMUM LENGTH



PLAN VIEW

SINGLE LANE CONCRETE BASE PATCH GREATER THAN 15' IN LENGTH

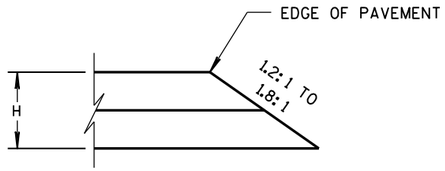
BASE PATCHING CONCRETE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2015 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT SUPER
FHWA

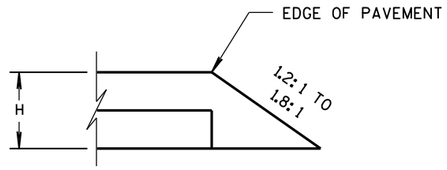
6

S.D.D. 13 C 14-6c



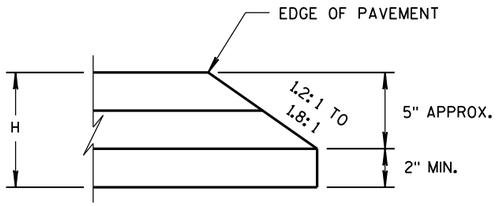
CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS



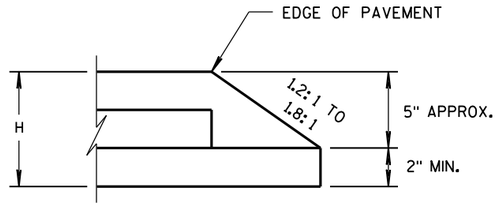
CONSTRUCTED WITH FINAL LAYER

FOR H 5" OR LESS



CONSTRUCTED WITH FINAL TWO LAYERS

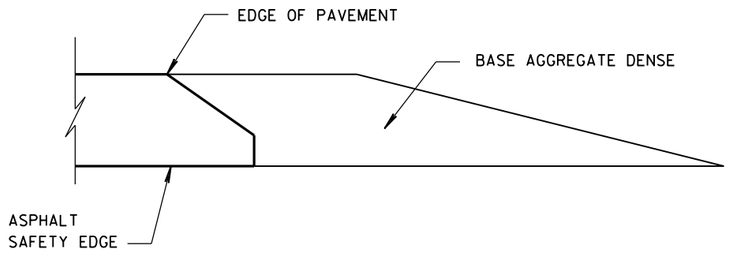
FOR H GREATER THAN 5"



CONSTRUCTED WITH FINAL LAYER

FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

6

6

S.D.D. 14 B 29-1

S.D.D. 14 B 29-1

SAFETY EDGE SM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/2012
DATE

/S/ Jerry H. Zoda
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

GENERAL NOTES

1. WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

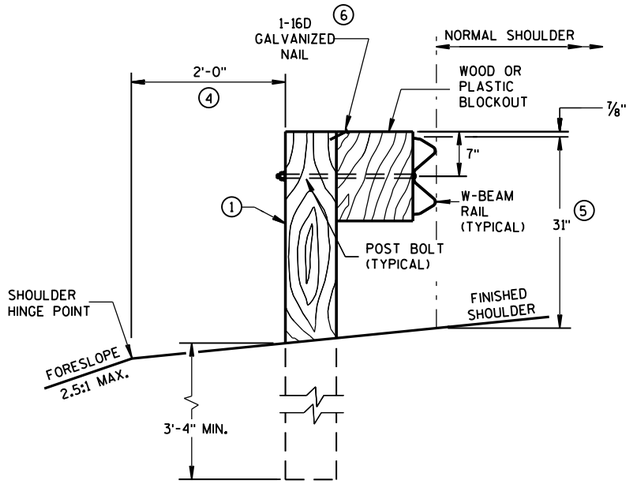
2. USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

3. IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2½ INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.

4. WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

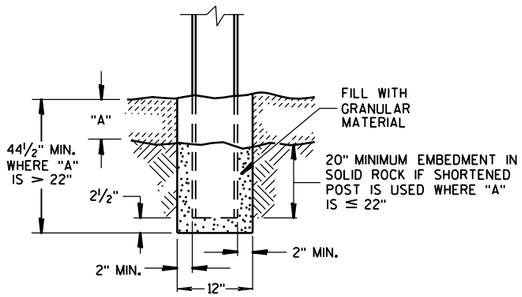
5. FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27¾" TO 32".

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



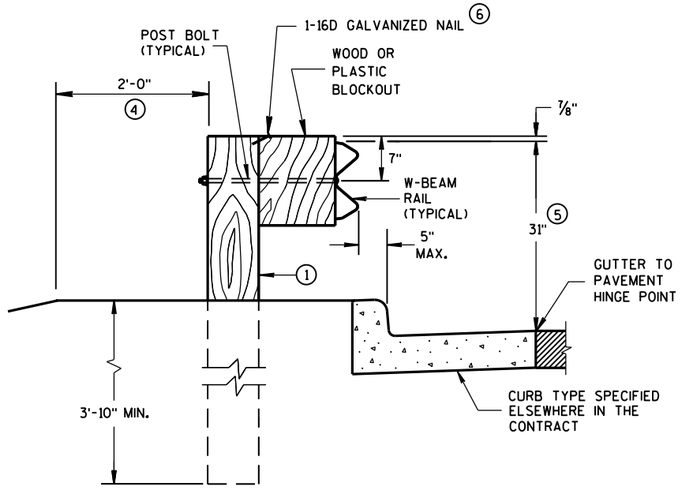
END VIEW

LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



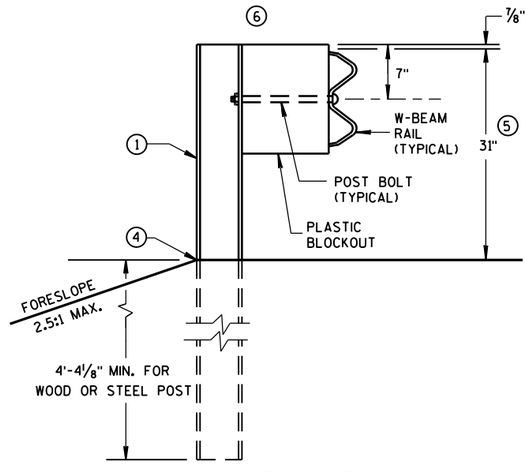
END VIEW

SETTING STEEL OR WOOD POST IN ROCK ③



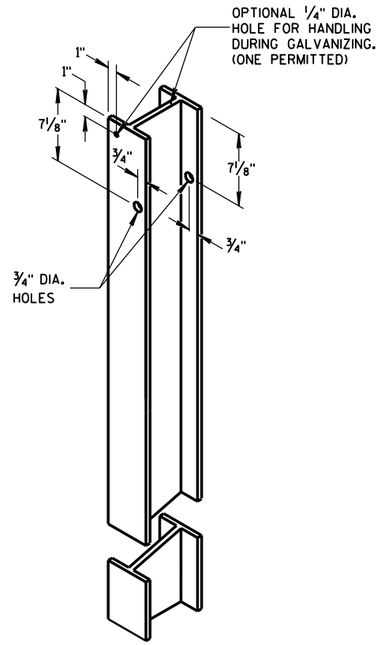
END VIEW

LOCATED ALONG A CURBED ROADWAY

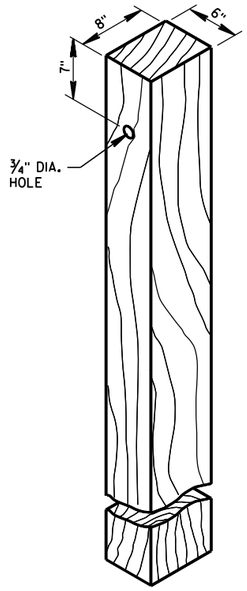


END VIEW

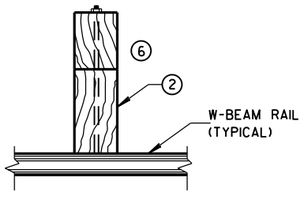
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



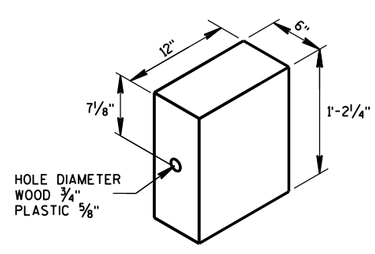
STEEL POST &
HOLE PUNCHING DETAIL
(w6X9) ①



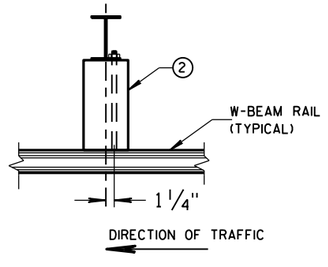
WOOD POST
(6" X 8") NOMINAL ①



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



WOOD OR
PLASTIC BLOCKOUT ②

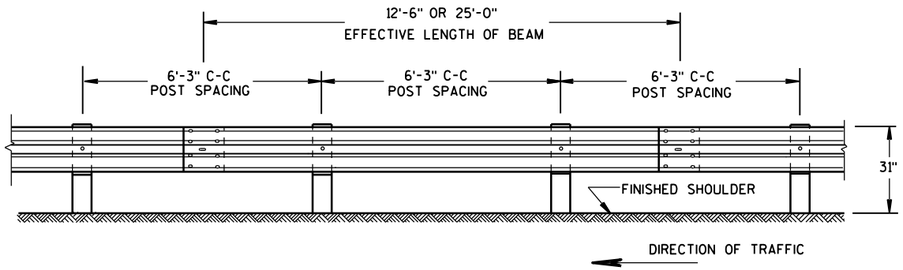


PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

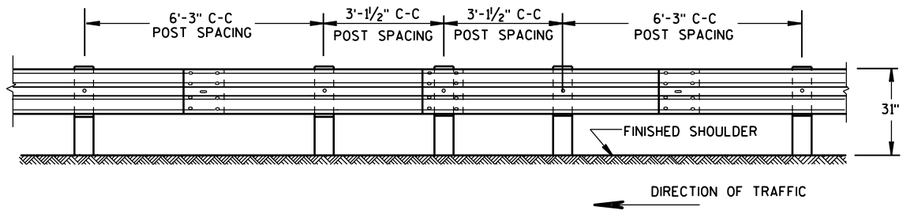
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 14 B 42-3a



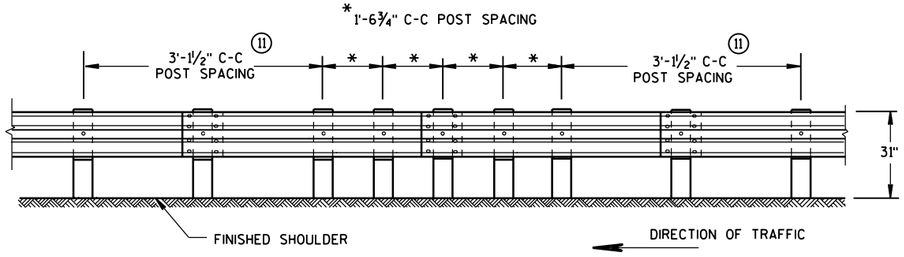
FRONT VIEW

POST SPACING STANDARD INSTALLATION



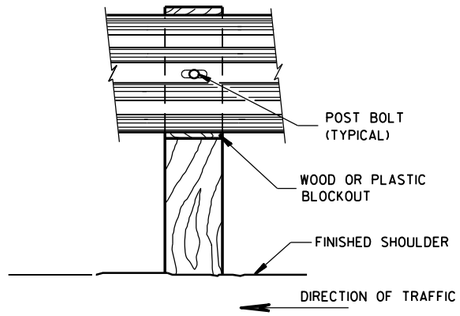
FRONT VIEW

HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)

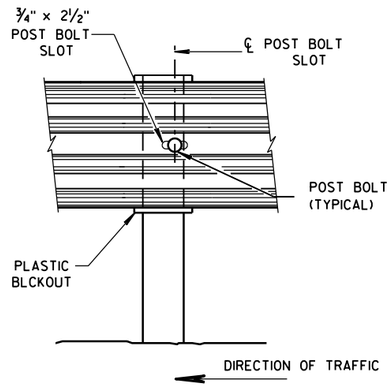


FRONT VIEW

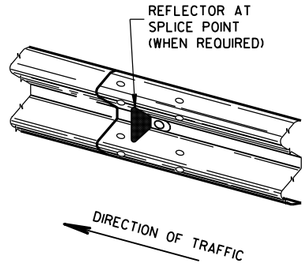
QUARTER POST SPACING (QS)

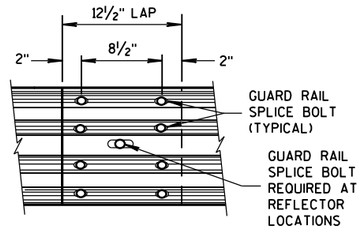


FRONT VIEW AT WOOD POST



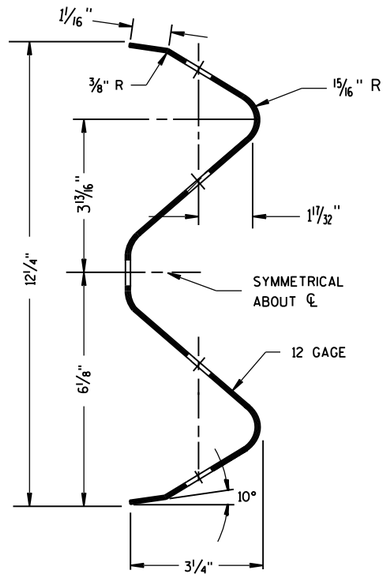
FRONT VIEW AT STEEL POST



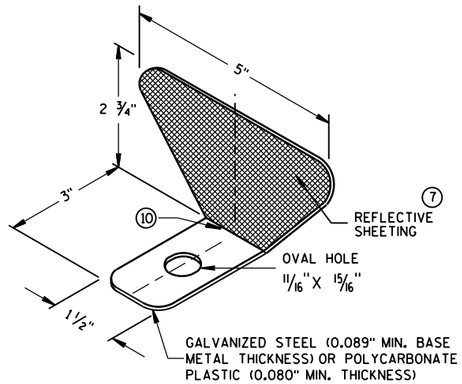


FRONT VIEW

MID-SPAN BEAM SPLICE



SECTION THRU W-BEAM RAIL



GENERAL NOTES

⑦ 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.

⑧ DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL. RAIL SPLICE LOCATIONS ARE THE ONLY ACCEPTABLE LOCATIONS FOR REFLECTORS.

⑨ REVERSE EVERY OTHER REFLECTOR FOR 2-WAY VISIBILITY. THE CONTRACTOR MAY FURNISH TWO-SIDED REFLECTORS IN LIEU OF ONE-SIDED REFLECTORS.

⑩ PROVIDE AN ANGLE OF BEND OF 90° ± 1° FOR TWO-SIDED REFLECTORS.

⑪ 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

POST BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND ⅝" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

GUARD RAIL SPLICE BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.

REFLECTOR SPACING ⑧

	BEAM GUARD LENGTH	REFLECTOR SPACING	NO. SURFACES REFLECTORIZED	MIN. NO. REFLECTORS
ONE WAY TRAFFIC	< 200'	50' C-C	1	3
	> 200'	100' C-C	1	
TWO WAY TRAFFIC	< 200'	25' C-C	1 ⑨	6
	> 200'	50' C-C	1	
TWO WAY TRAFFIC	< 200'	50' C-C	2	3
	> 200'	100' C-C	2 ⑩	

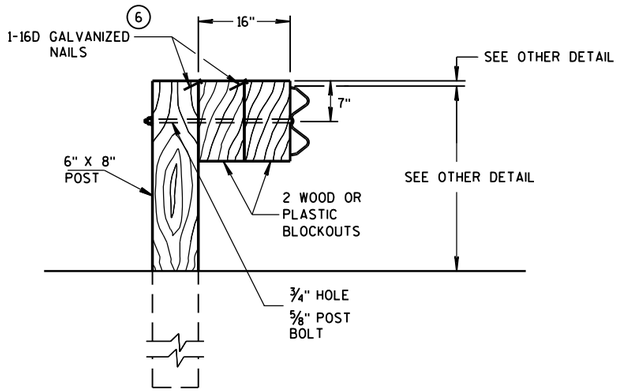
ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION ⑦

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

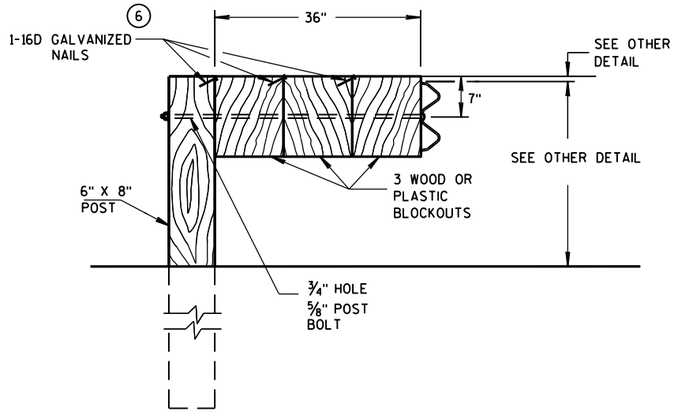
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S.D.D. 14 B 42-3b



DETAIL FOR 16" BLOCKOUT DEPTH

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

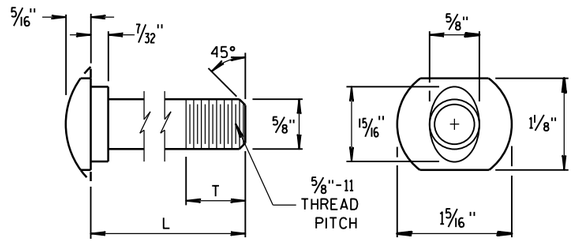


DETAIL FOR 36" BLOCKOUT DEPTH

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

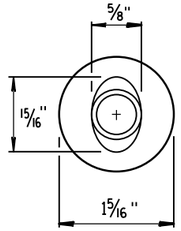
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

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

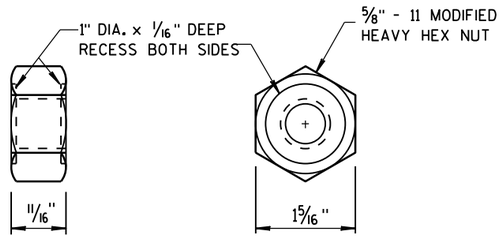


POST BOLT TABLE

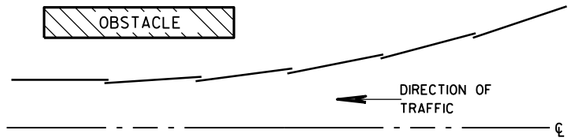
L	T (MIN.)
1¼"	1⅛"
2"	1¾"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



ALTERNATE BOLT HEAD

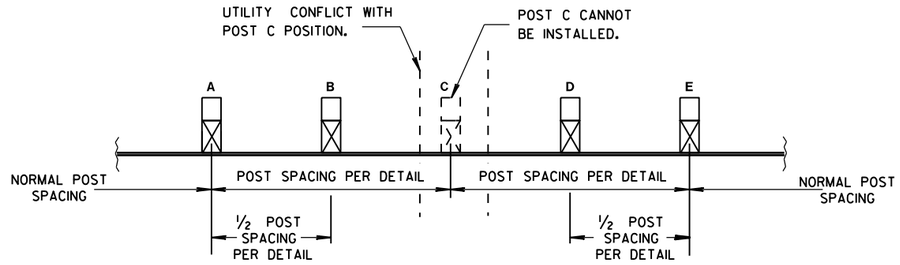


POST BOLT AND RECESS NUT

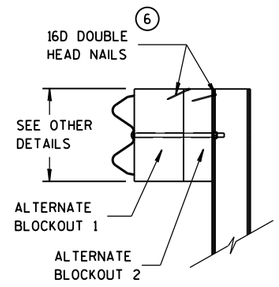


PLAN VIEW

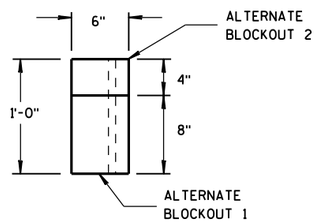
BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



SIDE VIEW



TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 14 B 42-3c

GENERAL NOTES

(A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL), AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.

(B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED.

(C) DIFFERENT MANUFACTURES REQUIRE DIFFERENT PERFORATED W-BEAM RAIL END PANELS. SEE MANUFACTURES INFORMATION.

(D) THE TOP OF THE STEEL TUBE ON POST 1 AND POST 2 SHALL NOT BE MORE THAN 3" ABOVE THE FINISH GROUND ELEVATION.

(F) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF-TAPPING SCREWS. ONE SCREW PER CORNER.

(G) ½" DIAMETER X 3" LONG LAG BOLT AND WASHER.

(H) HARDWARE VARIES BETWEEN DIFFERENT MANUFACTURES. SEE MANUFACTURE'S DRAWING FOR INFORMATION.

(I) DIMENSIONS MAY VARY. SEE MANUFACTURE'S INFORMATION.

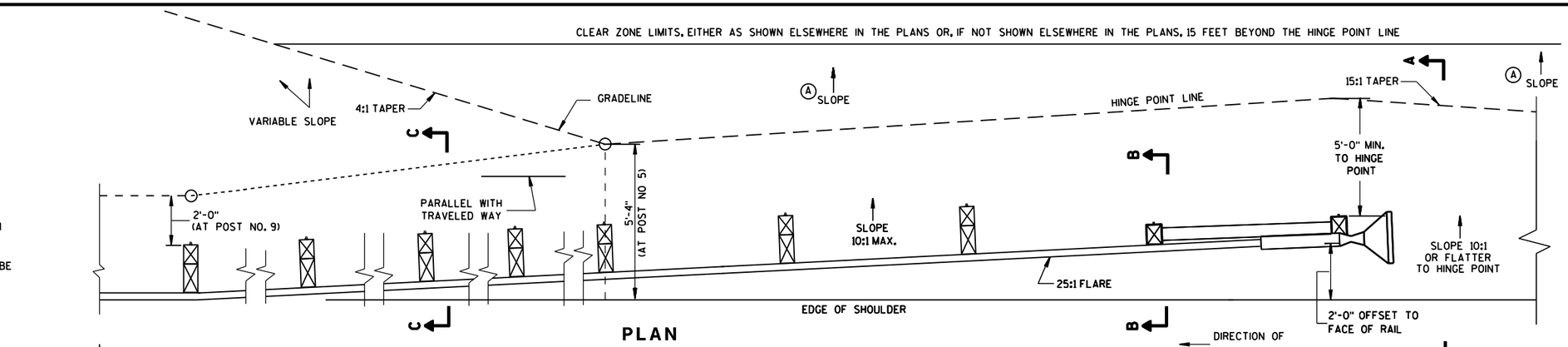
SEE SDD 14B42 FOR MORE INFORMATION.

* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

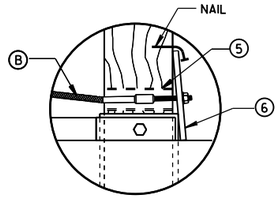
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

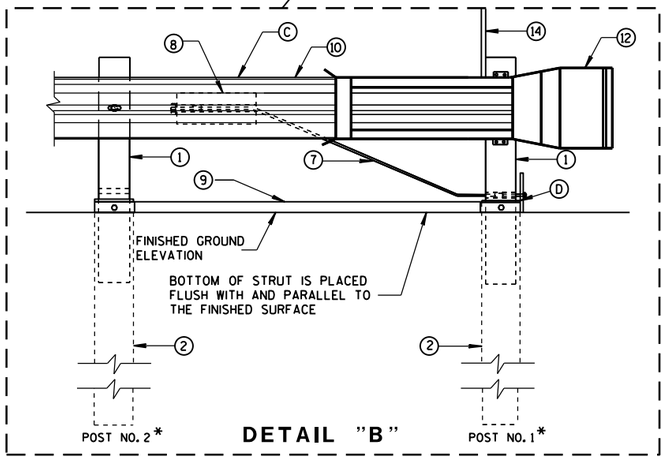
W-BEAM RAIL SPLICES ARE LOCATED AT POST NUMBER 3, AND BETWEEN POST 5 AND 6, BETWEEN POSTS 7 AND 8, AND MIDDLE OF THE SPAN AFTER POST 9.

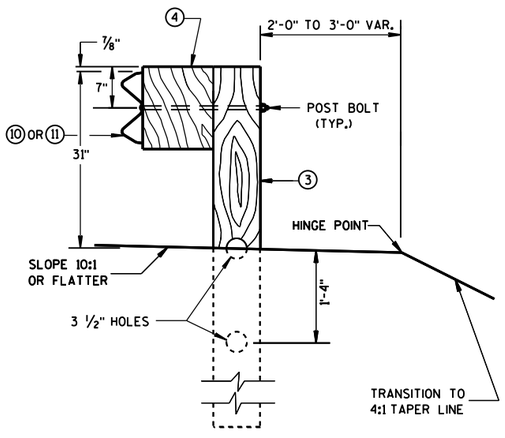
THE CENTER OF THE UPPER 3½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE.



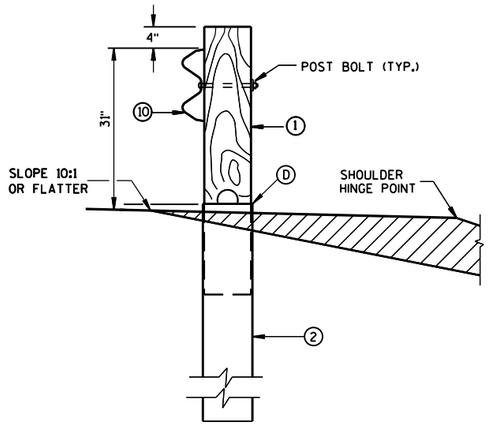
ELEVATION



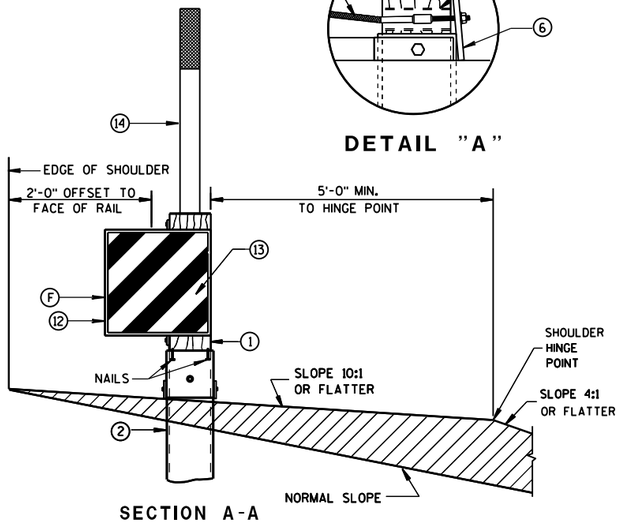




SECTION C-C
TYPICAL AT POST NOS. 3-9



SECTION B-B
TYPICAL AT POST NO. 2*



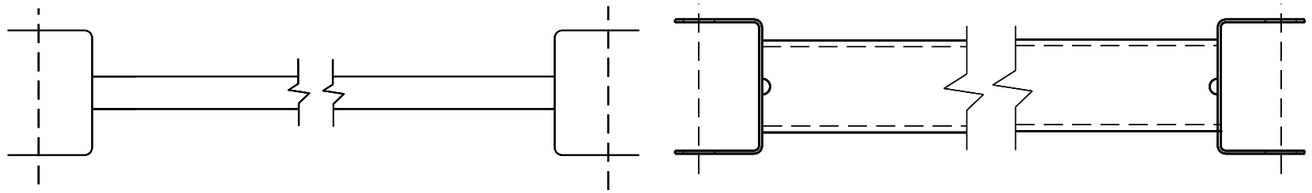
SECTION A-A
TYPICAL AT POST NO. 1*

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

S.D.D. 14 B 44-2a

S.D.D. 14 B 44-2a

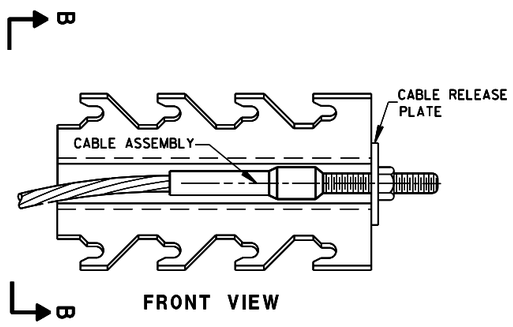


⑨ Ⓗ

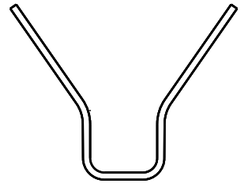
GENERIC GROUND STRUT

BILL OF MATERIALS

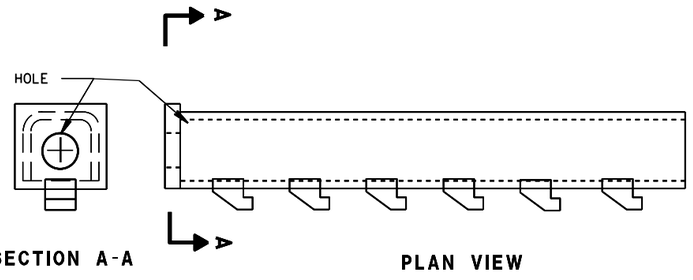
PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.
①	WOOD BREAKAWAY POST
②	6" X 8" X 0.188", 6'-0" LONG FOUNDATION TUBE AT POSTS 1 AND 2
③	WOOD CRT
④	WOOD BLOCKOUT
⑤	PIPE SLEEVE
⑥	BEARING PLATE
⑦	BCT CABLE ASSEMBLY
⑧	ANCHOR CABLE BOX
⑨	GROUND STRUT
⑩	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
⑪	STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
⑫	END SECTION EAT
⑬	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE F PER SECTION 637 OF THE STANDARD SPECIFICATIONS
⑭	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)



FRONT VIEW



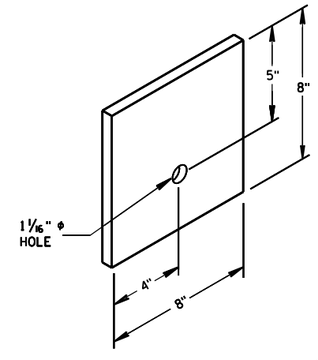
SECTION B-B



SECTION A-A

PLAN VIEW

GENERIC ANCHOR CABLE BOX ⑧ Ⓗ



BEARING PLATE ⑥

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

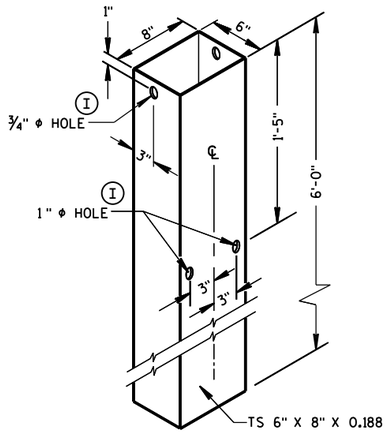
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

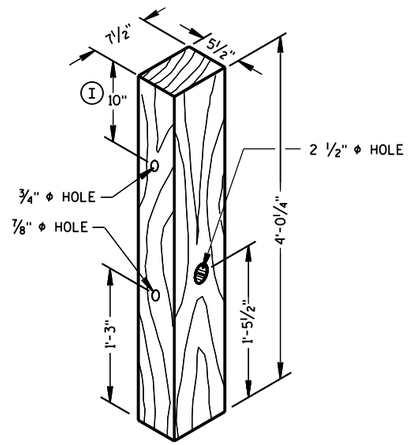
S.D.D. 14 B 44-2b

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S.D.D. 14 B 44-2b

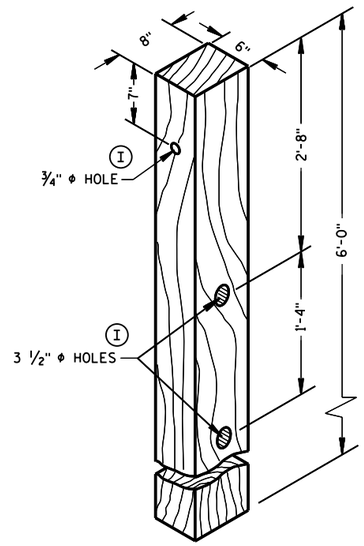


FOUNDATION TUBE (2)



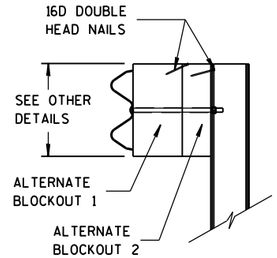
POSTS NUMBER 1 AND 2

WOOD BREAKAWAY POST (1)

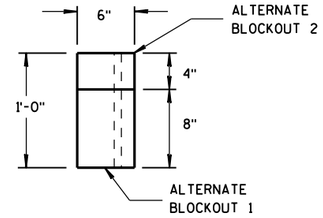


POSTS NUMBER 3-9

WOOD CRT POST (3)

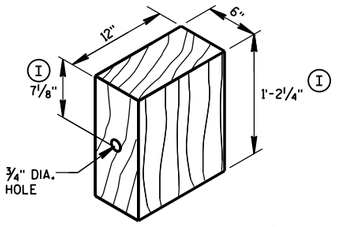


SIDE VIEW



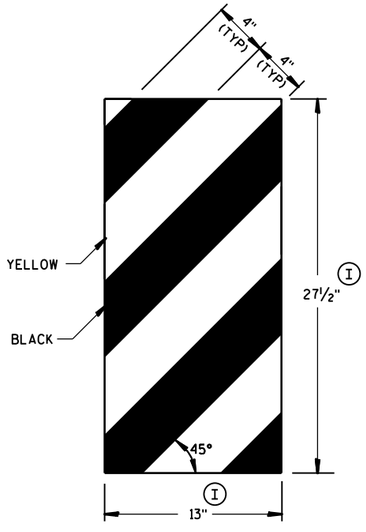
TOP VIEW

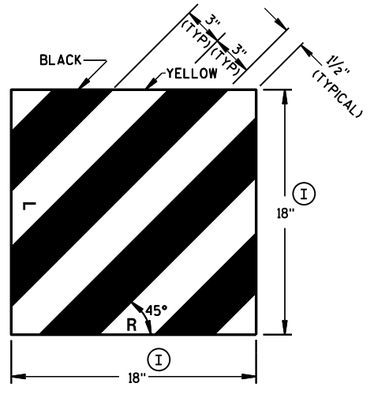
ALTERNATE WOOD BLOCKOUT DETAIL



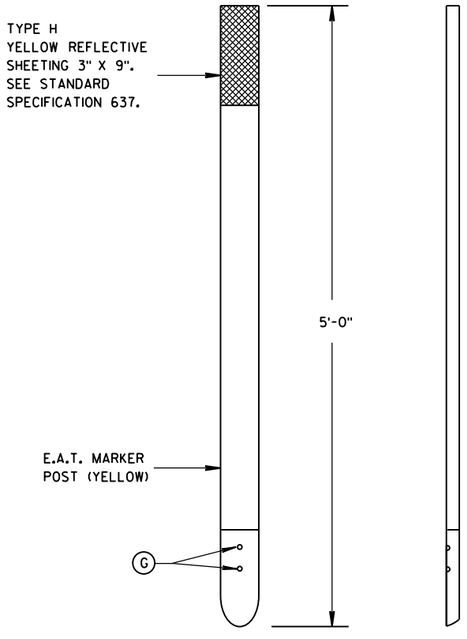
WOOD BLOCKOUT (4)

REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2





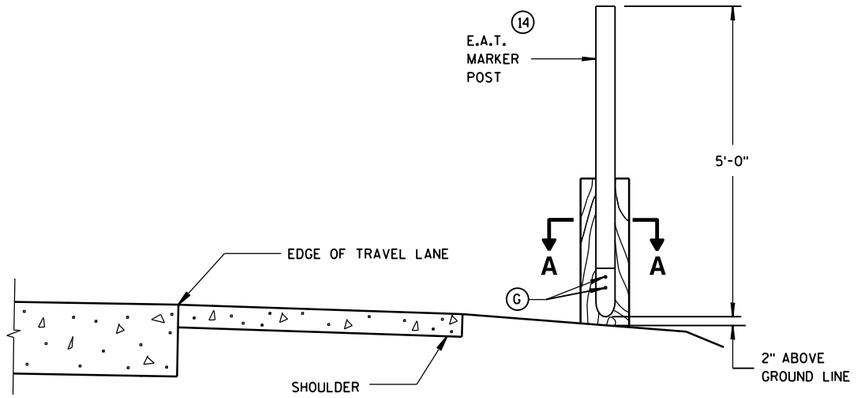
GENERIC REFLECTIVE SHEETING (13) (H)



FRONT VIEW

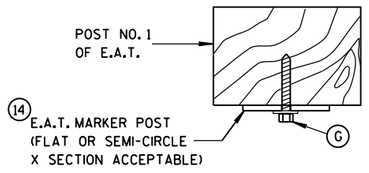
SIDE VIEW

E.A.T. MARKER POST (14)



TYPICAL INSTALLATION OF E.A.T. MARKER POST BACKSIDE OF POST NO. 1

(E.A.T. AND RAIL REMOVED FOR CLARITY)



SECTION A-A

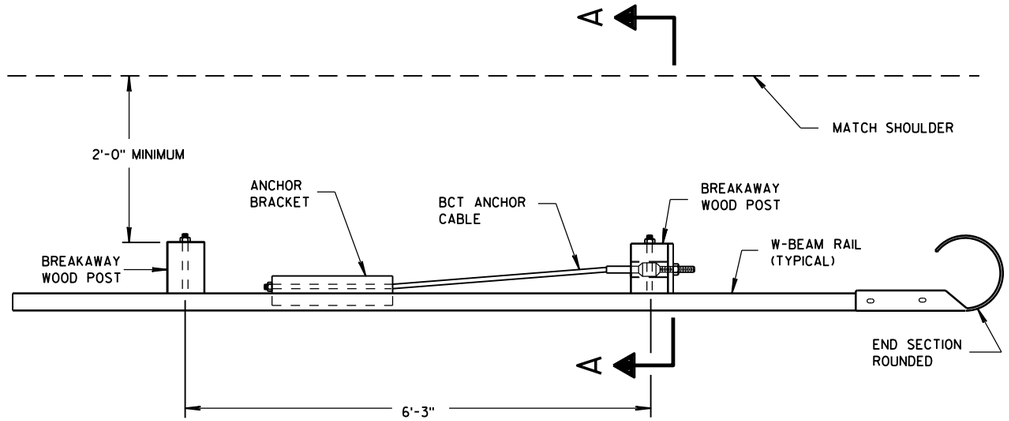
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

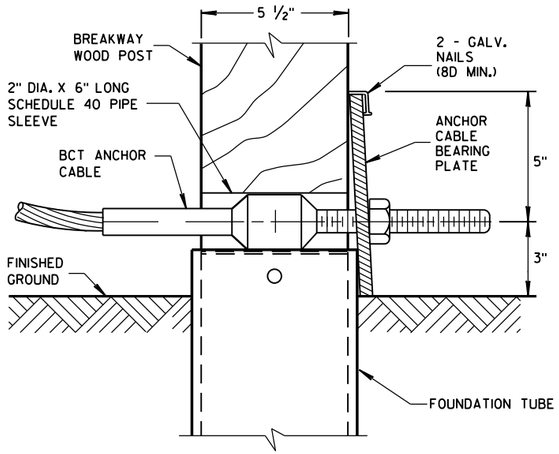
APPROVED
June 2014 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

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S.D.D. 14 B 44-2c



PLAN VIEW



DETAIL A

POST NO. 1
GROUNG STRUT NOT SHOWN FOR CLARITY.

GENERAL NOTES

SEE SDD 14 B 42 FOR MORE INFORMATION.

END SECTION BOLTS AND NUTS HAVE THE SAME MATERIAL REQUIREMENTS AS SPLICE BOLTS.

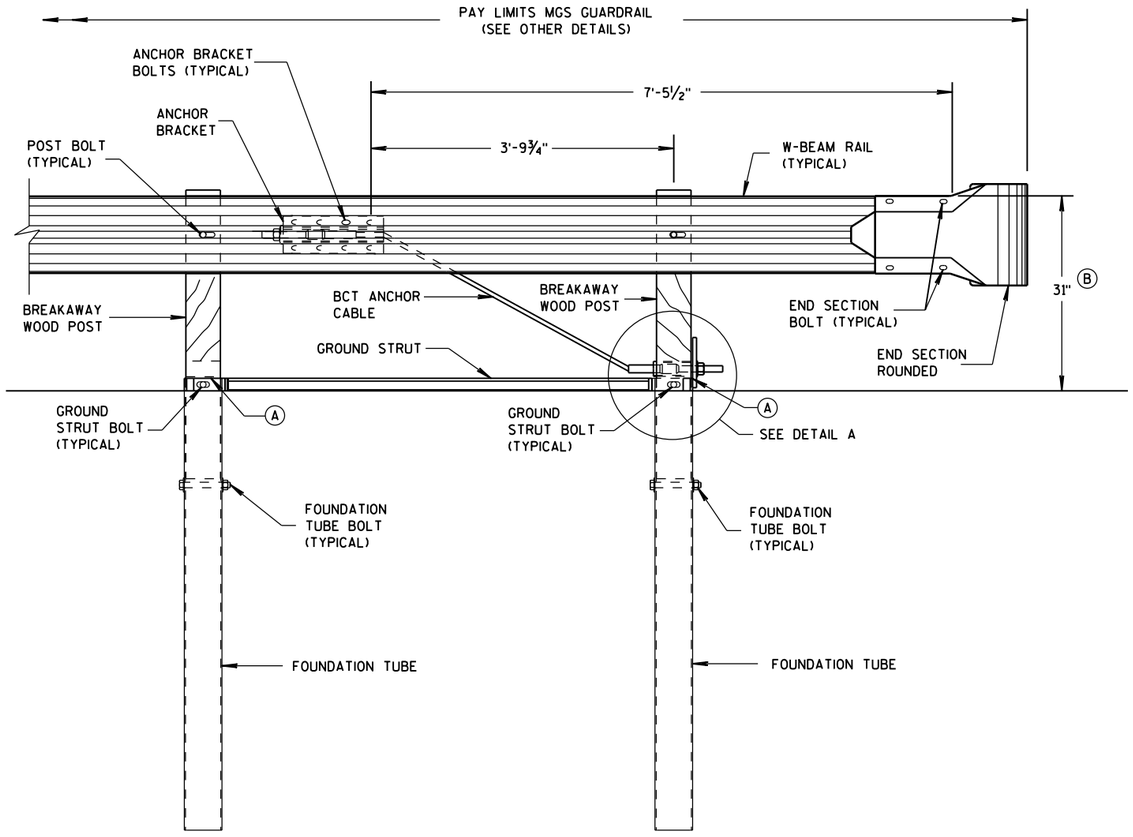
FOUNDATION TUBE BOLTS ARE ⅞" DIAMETER ASTM A307 HEX HEAD BOLT. FOUNDATION TUBE BOLTS REQUIRE ASTM A563 A NUT AND TWO ASTM F844 ⅞" DIAMETER FLAT WASHERS. INSTALL ONE WASHER UNDER BOLT HEAD AND ONE WASHER UNDER NUT.

ANCHOR BRACKET AND GROUND STRUT BOLTS ARE A ⅝" DIAMETER ASTM A307 HEX HEAD BOLT. ANCHOR BRACKET BOLTS REQUIRE ASTM A563 A NUT AND TWO ASTM F844 ⅝" DIAMETER FLAT WASHERS. INSTALL ONE WASHER UNDER BOLT HEAD AND ONE WASHER UNDER NUT.

W-BEAM END SECTION ROUNDED HAS THE SAME MATERIAL PROPERTIES AS STANDARD STEEL RAIL.

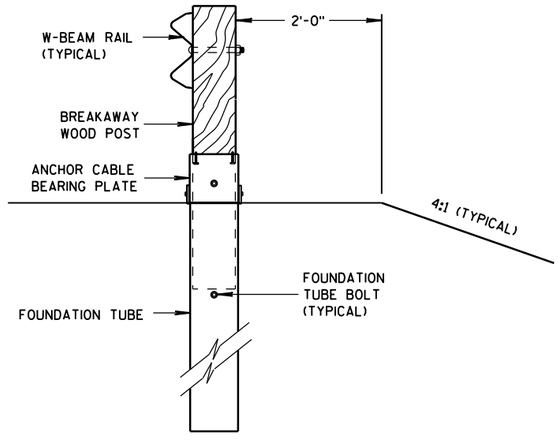
(A) TOP OF FOUNDATION TUBE SHALL BE NO MORE THAN 3" ABOVE FINISHED GROUND.

(B) FOR NEW CONSTRUCTION TOP OF RAIL IS 31" ± 1".
FOR EXISTING INSTALLATIONS TOP OF RAIL IS BETWEEN 27¾" TO 32" ± 1".

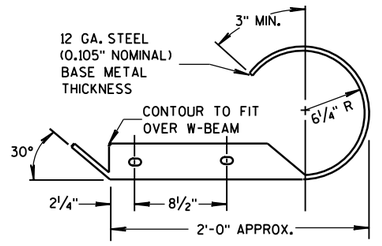


FRONT VIEW

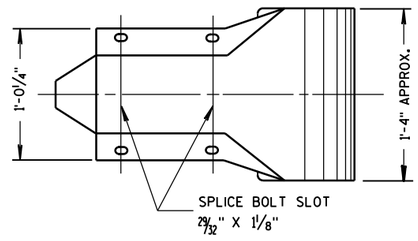
END RAIL DETAIL



SECTION A-A



PLAN VIEW



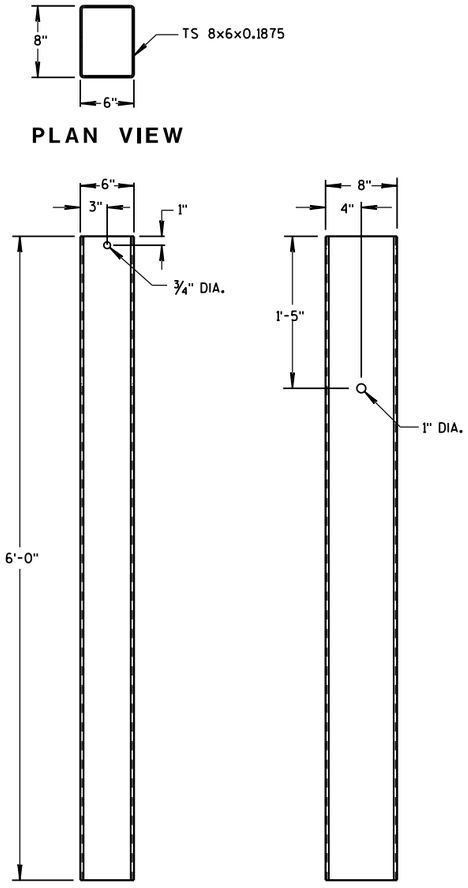
FRONT VIEW

W BEAM END SECTION ROUNDED

MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

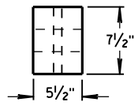
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S.D.D. 14 B 47-2a



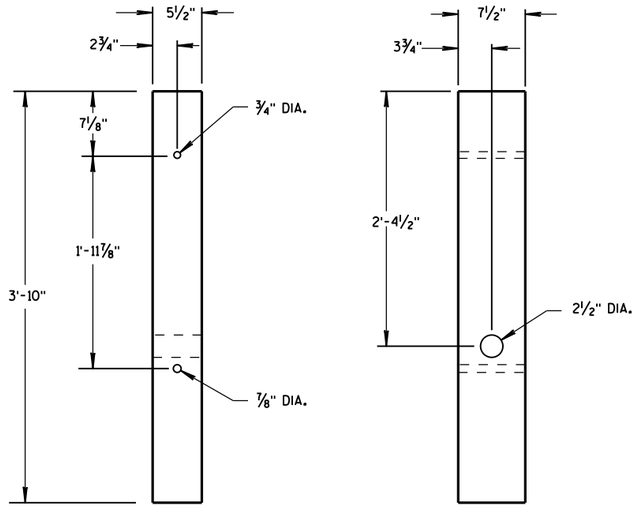
PLAN VIEW

FRONT VIEW SIDE VIEW

FOUNDATION TUBE



PLAN VIEW



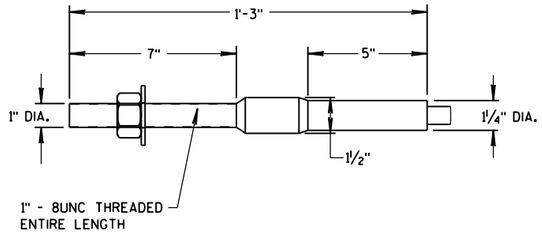
FRONT VIEW SIDE VIEW

BREAKAWAY WOOD POST

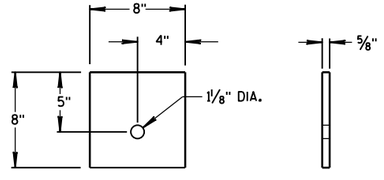
GENERAL NOTES

BCT ANCHOR CABLE IS A ¾" DIAMETER 6X19 IWRC IPS GALVANIZED WIRE ROPE. THE SWAGED FITTINGS AND STUD ARE REQUIRED. END FITTING SHALL BE MACHINED FROM HOT-ROLLED CARBON STEEL CONFORMING TO ASTM A576 GRADE 1035 AND GALVANIZED ACCORDING TO ASTM A123. TREADED STUD SHALL CONFORM TO ASTM A325 OR SAE GRADE 5. MINIMUM BREAKING STRENGTH OF WIRE ROPE IS 43,000 LB. WIRE ROPE IS TO BE TAUT.

BCT ANCHOR CABLE



DETAIL B



SIDE VIEW FRONT VIEW

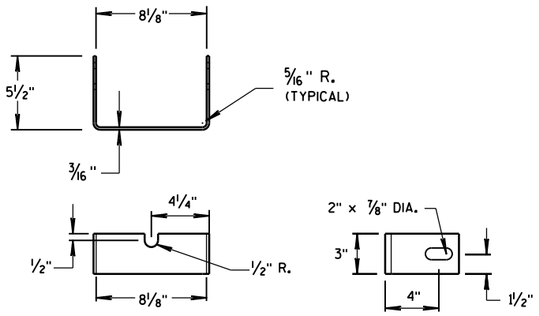
ANCHOR CABLE
BEARING PLATE

MIDWEST GUARDRAIL
SYSTEM (MGS) TYPE 2 TERMINAL

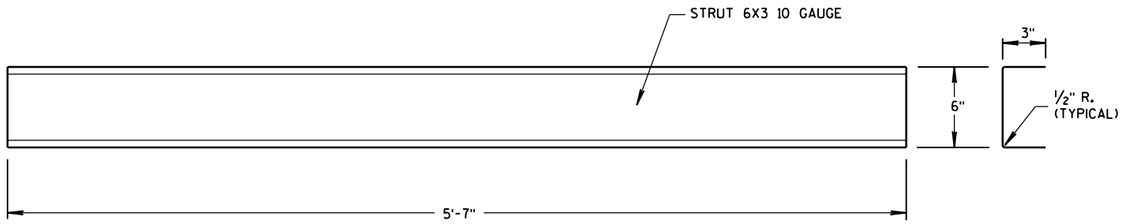
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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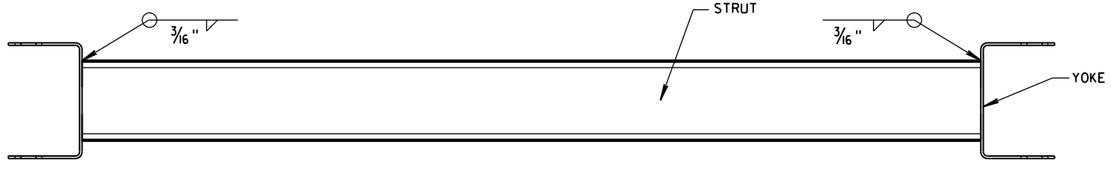
S.D.D. 14 B 47-2b



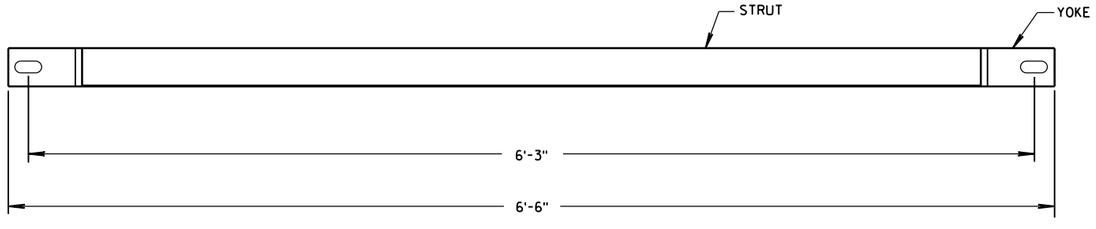
YOKE DETAIL



STRUT DETAIL

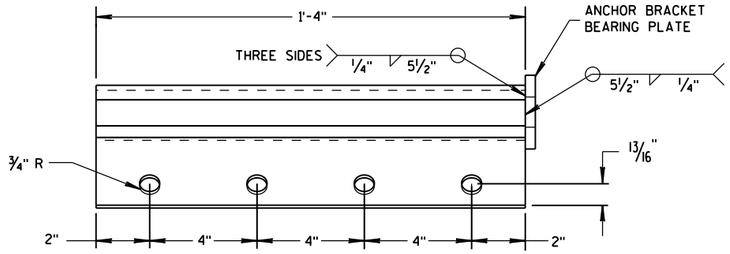


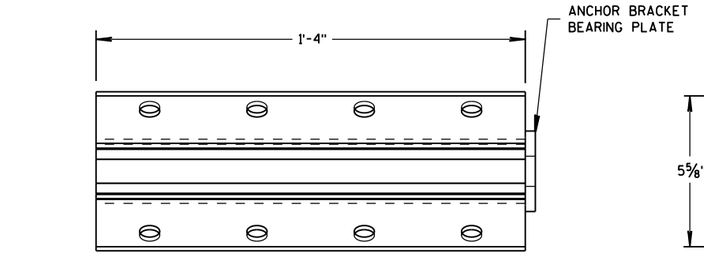
PLAN VIEW

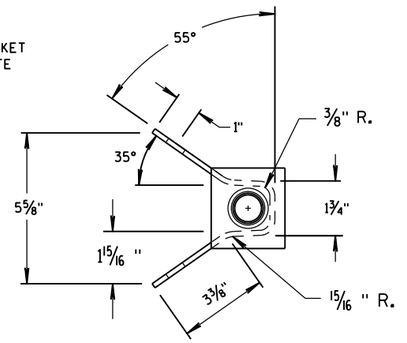


FRONT VIEW

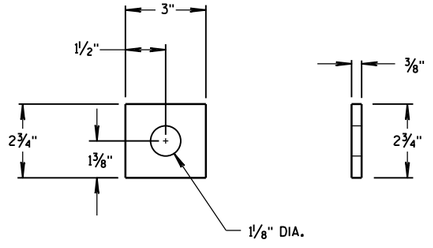
GROUND STRUT DETAIL







ANCHOR BRACKET



ANCHOR BRACKET BEARING PLATE

MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

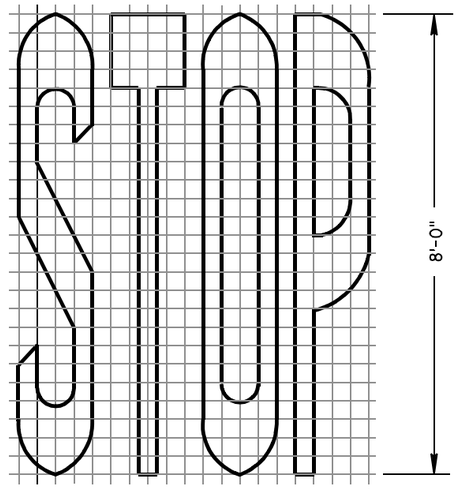
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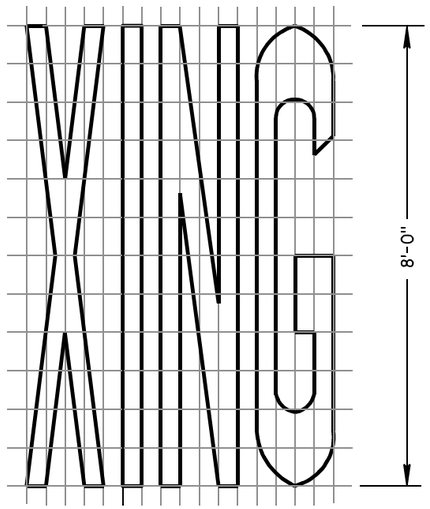
S.D.D. 14 B 47-2c

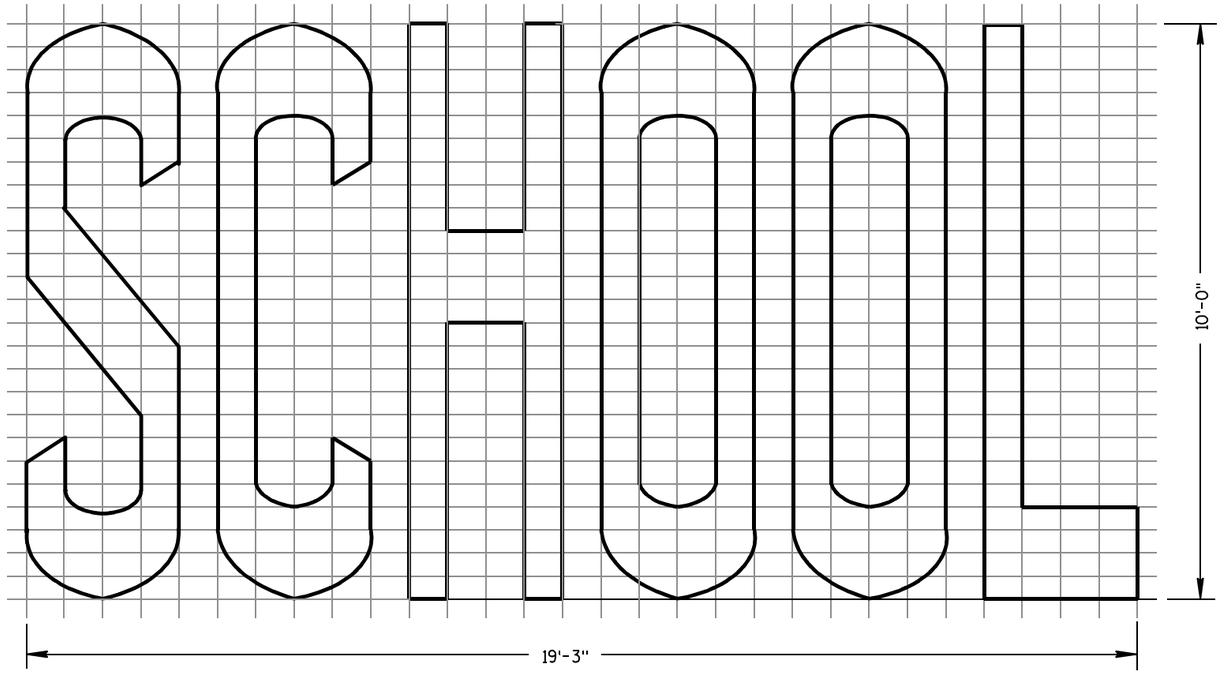
GENERAL NOTES

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

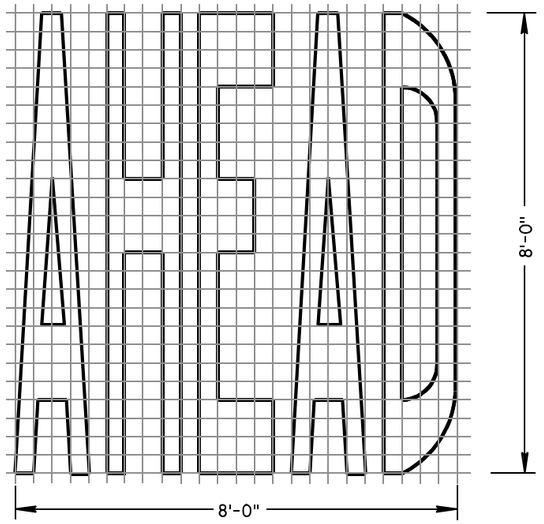
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.

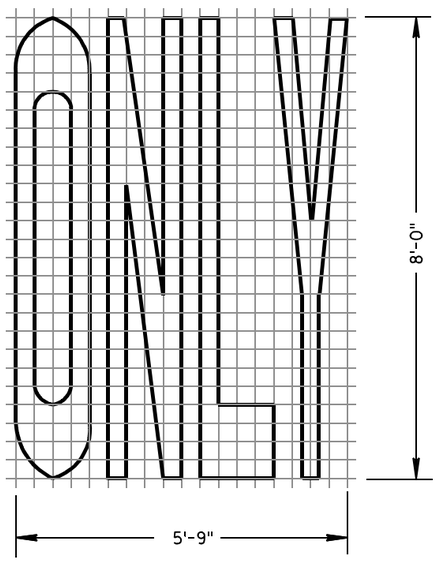


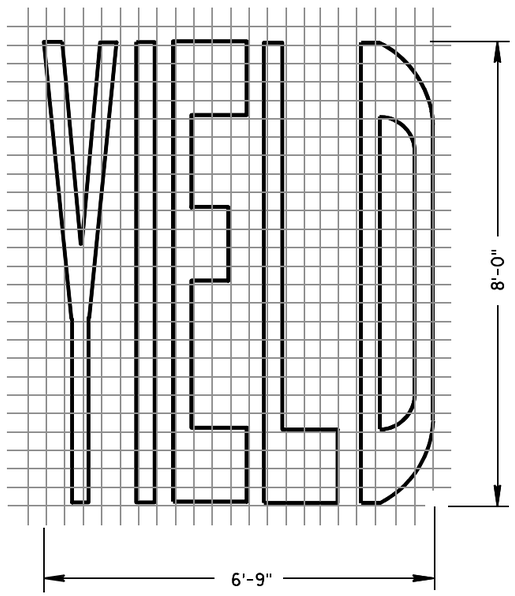


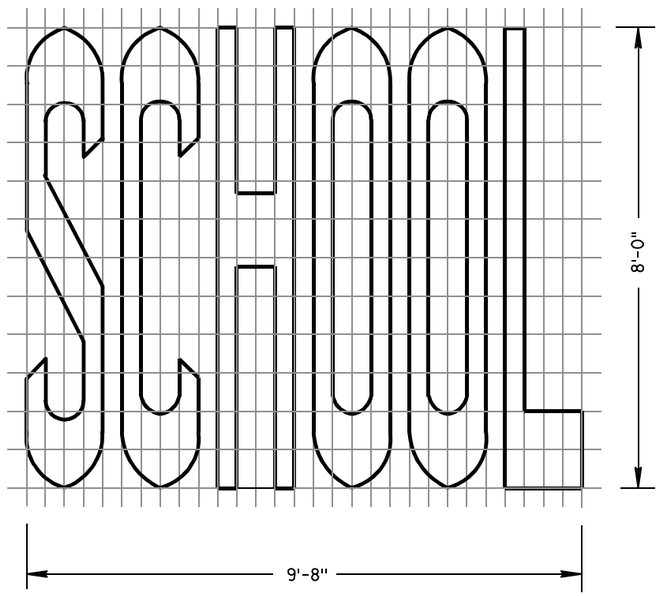


TWO-LANE









SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7-1-11 DATE — /S/ Thomas N. Nothohm STATE TRAFFIC ENGINEER — IGN

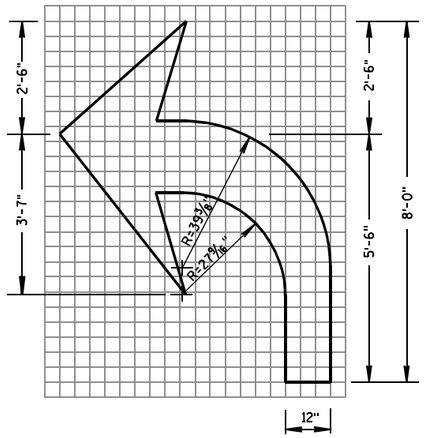
FHWA

6

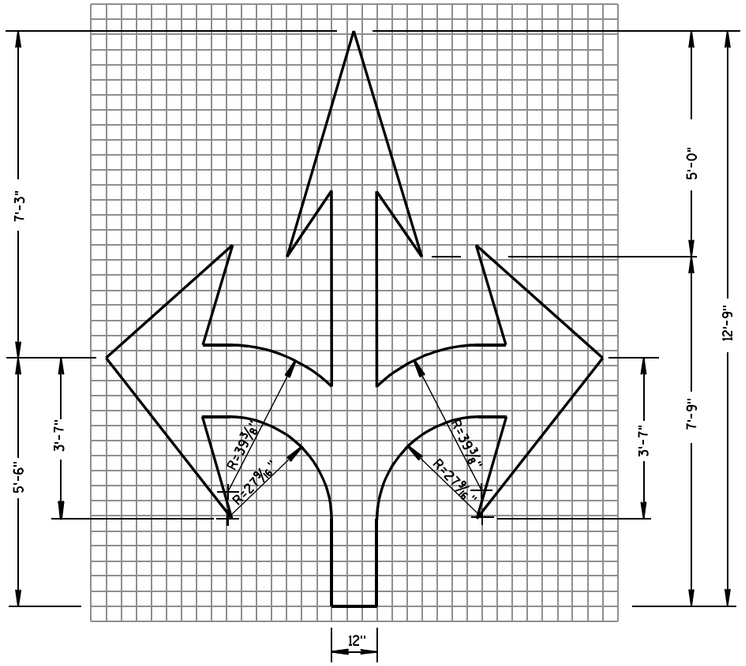
S.D.D. 15 C 7-12b

6

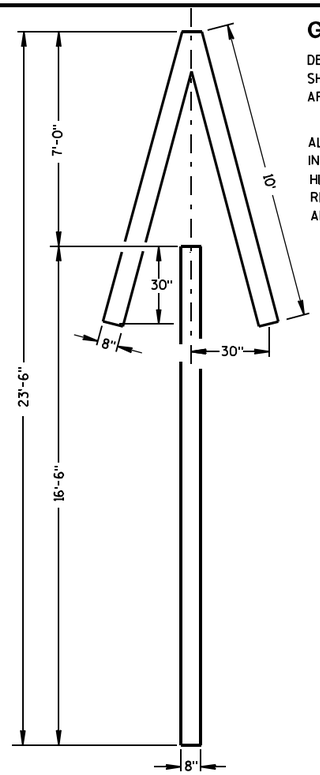
S.D.D. 15 C 7-12b



TYPE 2



TYPE 6

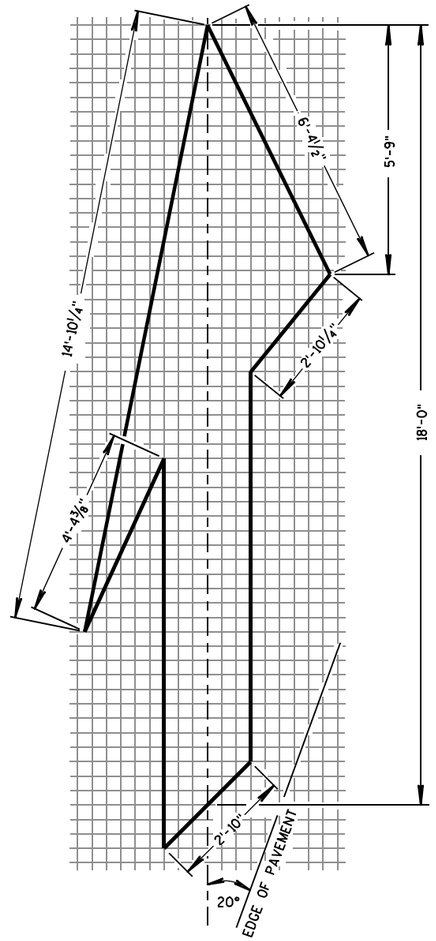


TYPE 4

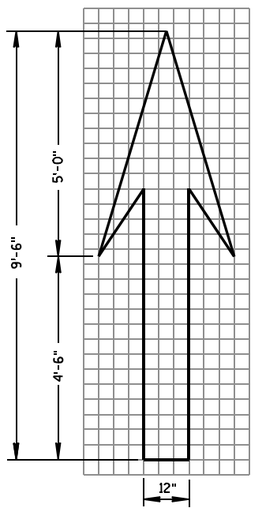
GENERAL NOTES

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

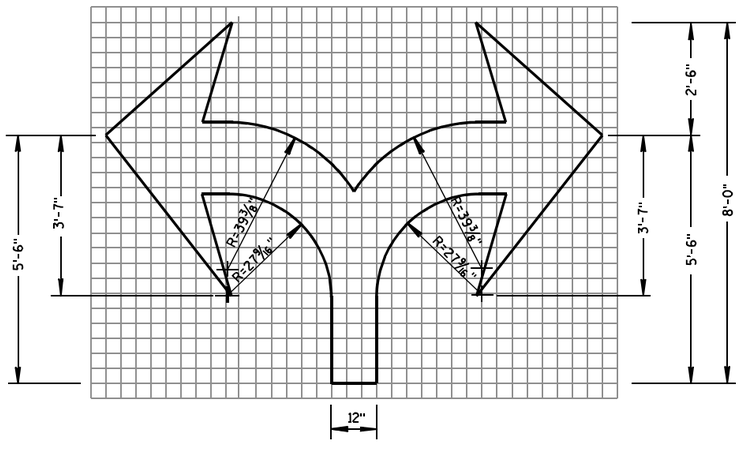
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.



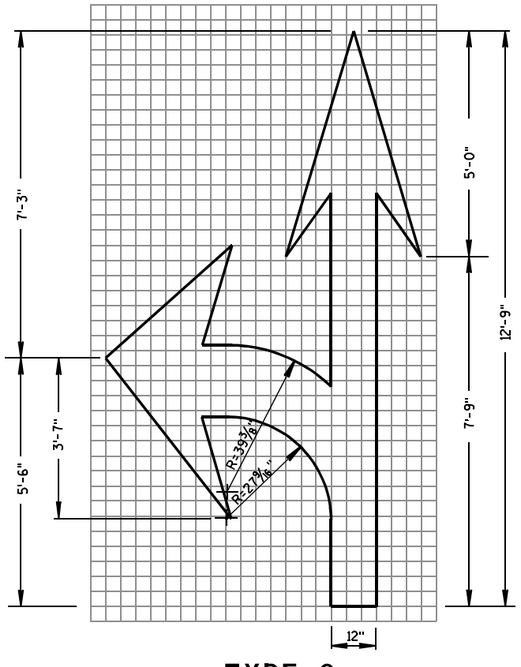
TYPE 5 LANE DROP ARROW



TYPE 1



TYPE 7



TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/1/11 — DATE

/S/ Thomas N. Nothdurft — STATE TRAFFIC ENGINEER

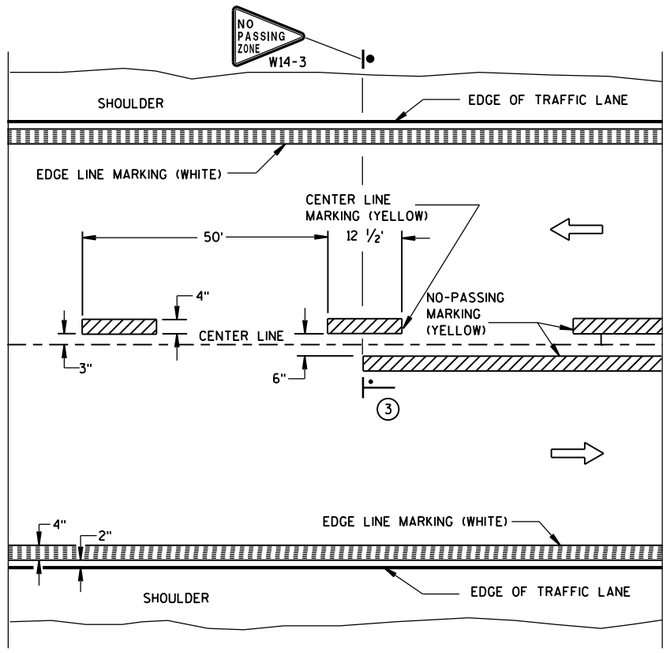
FHWA

6

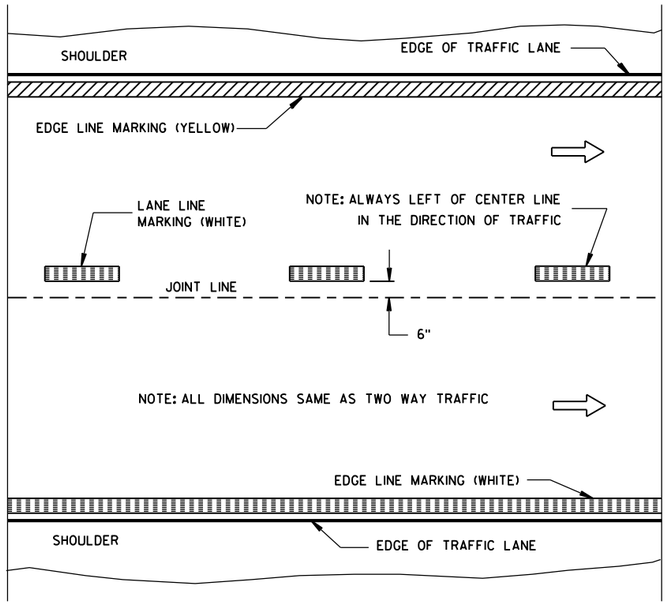
S.D.D. 15 C 7-12c

6

S.D.D. 15 C 7-12c

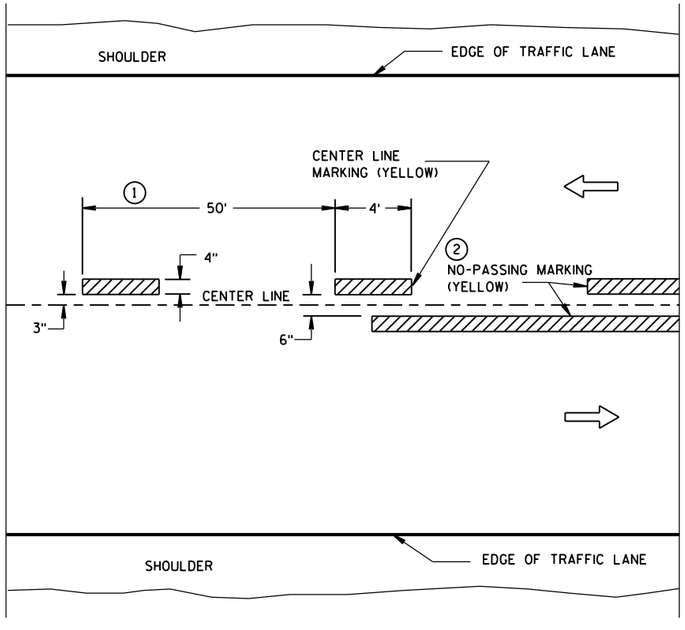


TWO WAY TRAFFIC

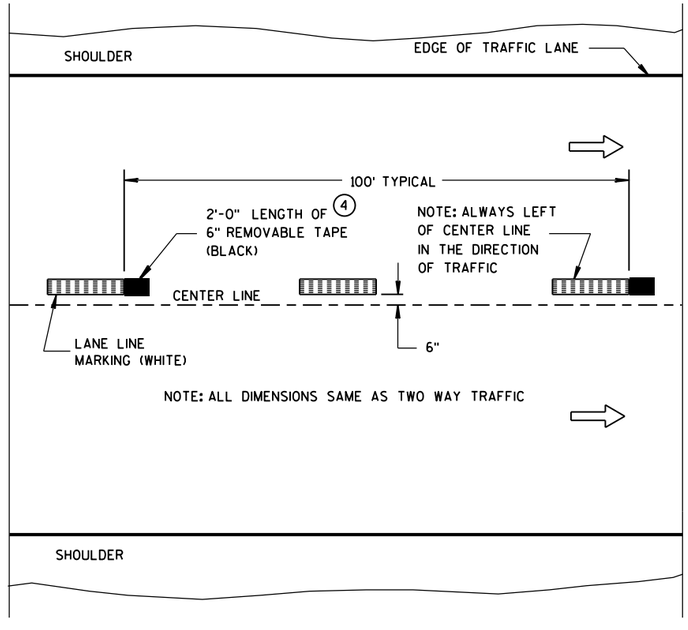


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING

(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

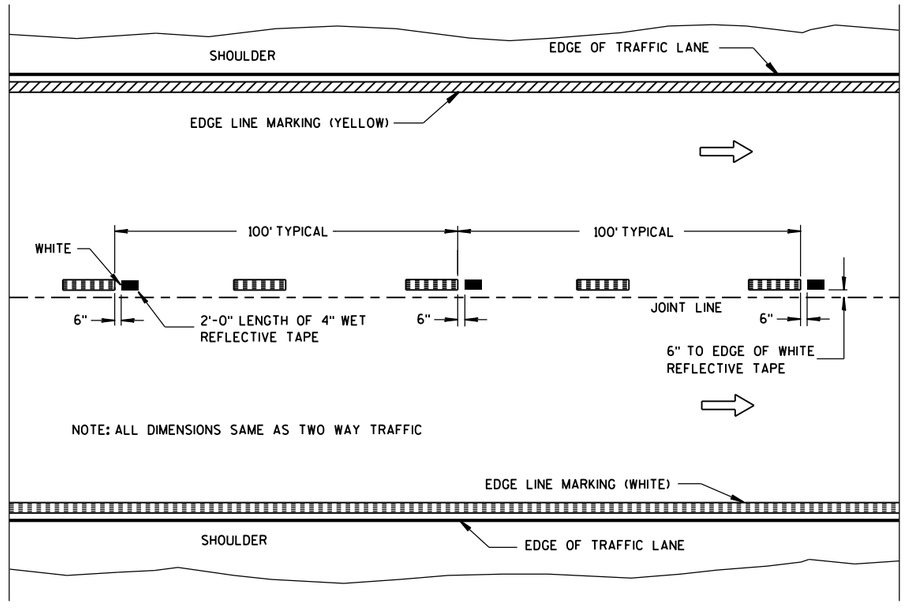
GENERAL NOTES

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

1. HALF CYCLE LENGTHS (25'±) WITH 2' MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.
2. NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.
3. NO PASSING ZONE MARKINGS ARE PLACED ACCORDING TO "T" MARKINGS. IF EXISTING NO PASSING ZONE W14-3 SIGNS ARE BEYOND 50 FEET IN EITHER DIRECTION, THE SIGNS SHALL BE MOVED TO THE "T" MARKINGS.
4. CONCRETE ONLY.

NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL



WET REFLECTIVE TAPE SUPPLEMENT TO
SPRAYED OR NON WET REFLECTIVE TAPE LANE LINE

LEGEND

"T" MARKING

POST MOUNTED SIGN

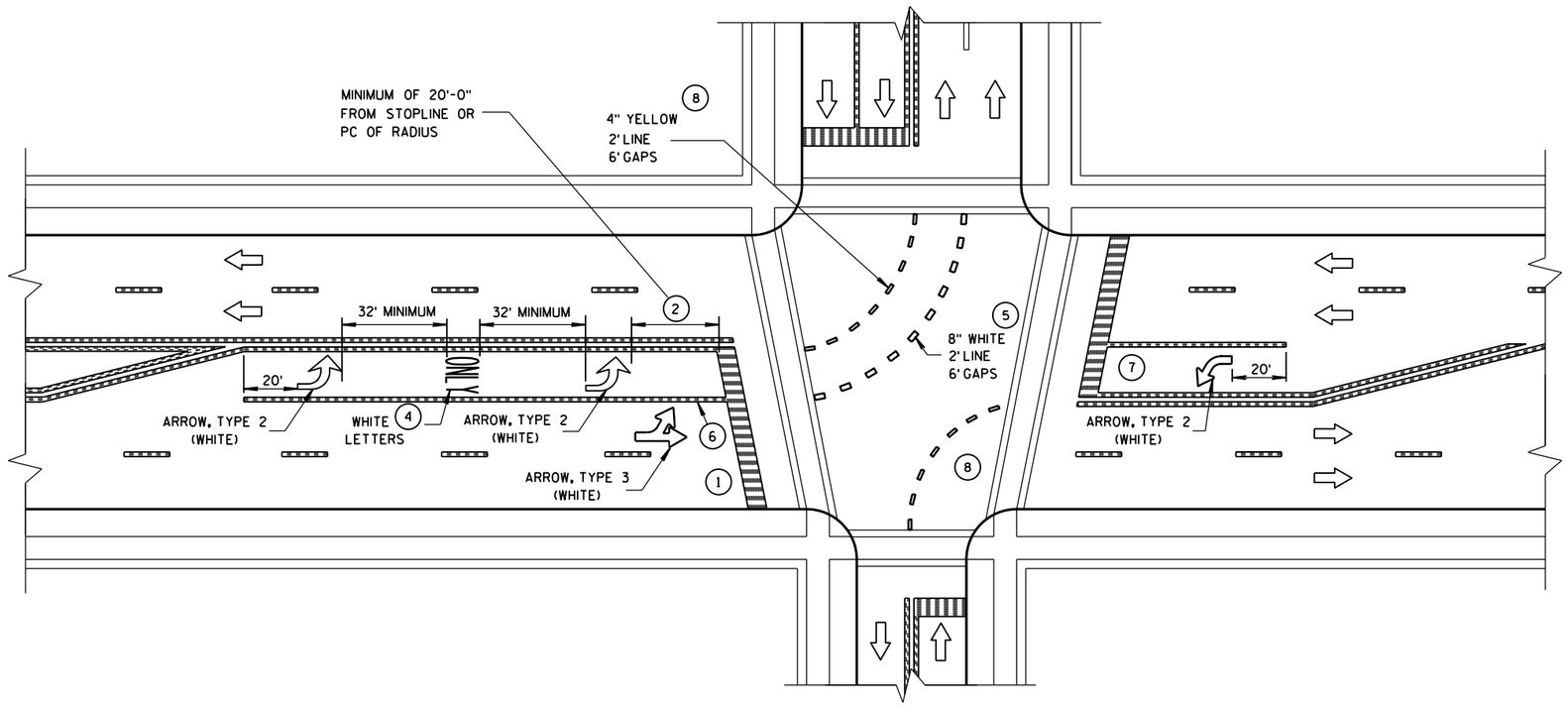
PAVEMENT MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5-13-2013 DATE
/S/ Travis Feltes STATE TRAFFIC E
FHWA

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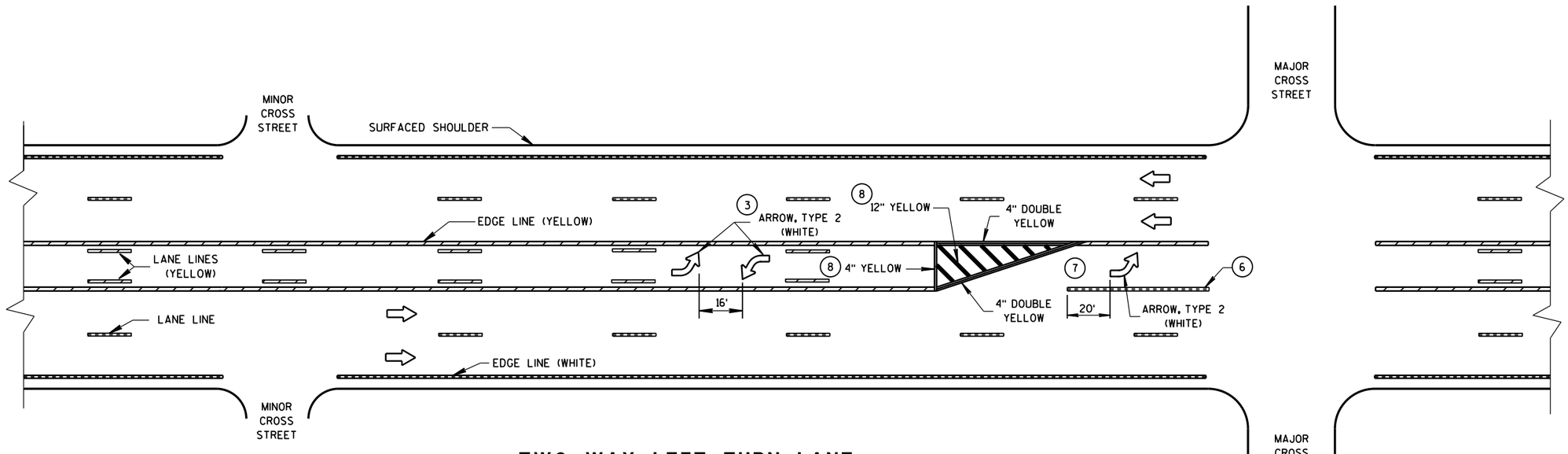
S.D.D. 15 C 8-16a



GENERAL NOTES

1. STOP BAR IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
2. DISTANCE MAY BE ADJUSTED TO ACCOMODATE SHORT LEFT TURN LANES. AS APPROVED BY THE ENGINEER.
3. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
4. ADD EXTRA SETS OF ONE ARROW AND ONE ONLY PER 160 FEET OR WHEN ON A CURVE.
5. 8" WHITE WITH 2' LINE 6' GAPS FOR DUAL TURN LANE.
6. 8" WHITE
7. ADD SECOND ARROW WHEN TURN BAY IS GREATER THAN OR EQUAL TO 108 FEET.
8. REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL



TWO WAY LEFT TURN LANE

PAVEMENT MARKING (LEFT TURN LANE)

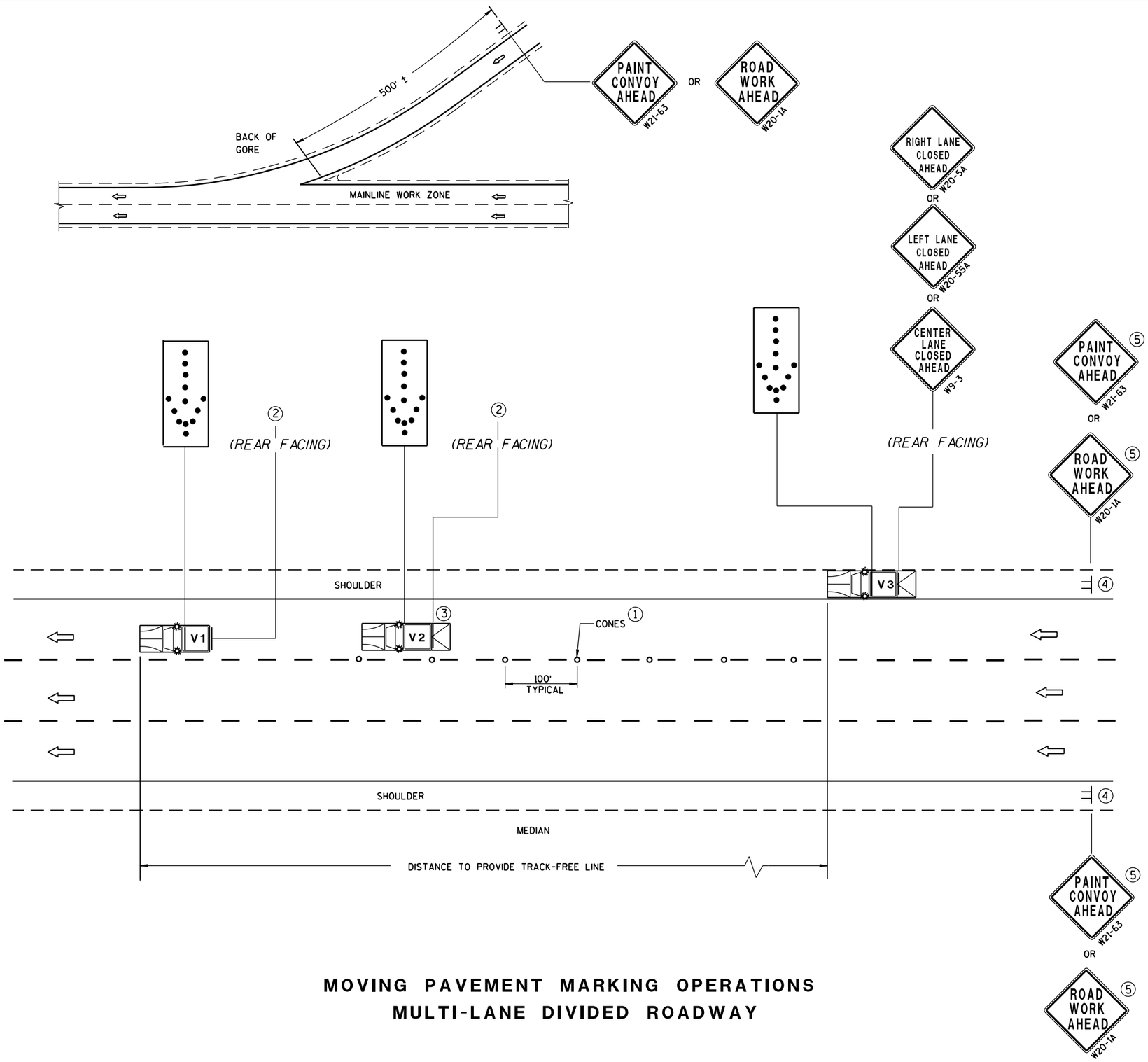
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 15 C 8-16e

6

S.D.D. 15 C 8-16e



MOVING PAVEMENT MARKING OPERATIONS
MULTI-LANE DIVIDED ROADWAY

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

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

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

WHEN WORK ACTIVITY BLOCKS THE LEFT LANE, REVERSE TRAFFIC CONTROL.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

USE AN ATTENUATOR ON THE REARMOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.

FOR EDGELINE MARKING OR IF CONES ARE NOT USED, POSITION THE REARMOST SHADOW VEHICLE ON THE SHOULDER AS SHOWN IN THE MUTCD IF THE SHOULDER HAS ADEQUATE WIDTH. USE DOUBLE ARROWS WHEN CONVOY IS IN CENTER LANE ONLY.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

THIS DRAWING SHALL BE USED FOR EDGELINE OR LANELINE MARKING FOR MULTILANE DIVIDED ROADWAYS.

① CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

② USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.

WET PAINT W21-64 OR WET PAINT W21-64

③ OPTIONAL TRUCK-MOUNTED ATTENUATOR.

④ SIGNS SHALL BE REPEATED AFTER EVERY ON RAMP OR EVERY THREE MILES.

⑤ IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

LEGEND

V1	LEAD VEHICLE
V2	SHADOW VEHICLE
V3	TRAIL VEHICLE WITH TMA
TMA	TRUCK-MOUNTED ATTENUATOR
	SIGN ON TEMPORARY SUPPORT
	DIRECTION OF TRAFFIC
	CONES
	FLASHING ARROW PANEL (MERGE)

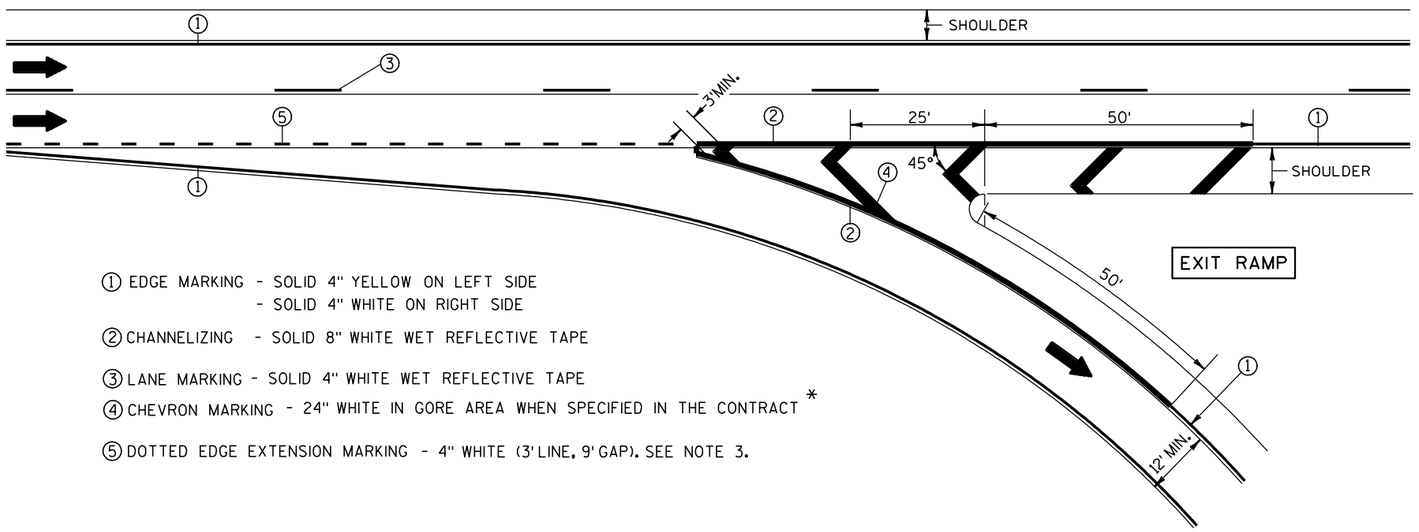
MOVING PAVEMENT MARKING OPERATION
MULTI-LANE DIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe — STATEWIDE WORK ZON SAFETY ENGINI
FHWA

6 S.D.D. 15 C 19-3c

6 S.D.D. 15 C 19-3c



① EDGE MARKING - SOLID 4" YELLOW ON LEFT SIDE
- SOLID 4" WHITE ON RIGHT SIDE

② CHANNELIZING - SOLID 8" WHITE WET REFLECTIVE TAPE

③ LANE MARKING - SOLID 4" WHITE WET REFLECTIVE TAPE

④ CHEVRON MARKING - 24" WHITE IN GORE AREA WHEN SPECIFIED IN THE CONTRACT *

⑤ DOTTED EDGE EXTENSION MARKING - 4" WHITE (3' LINE, 9' GAP). SEE NOTE 3.

NOTES:

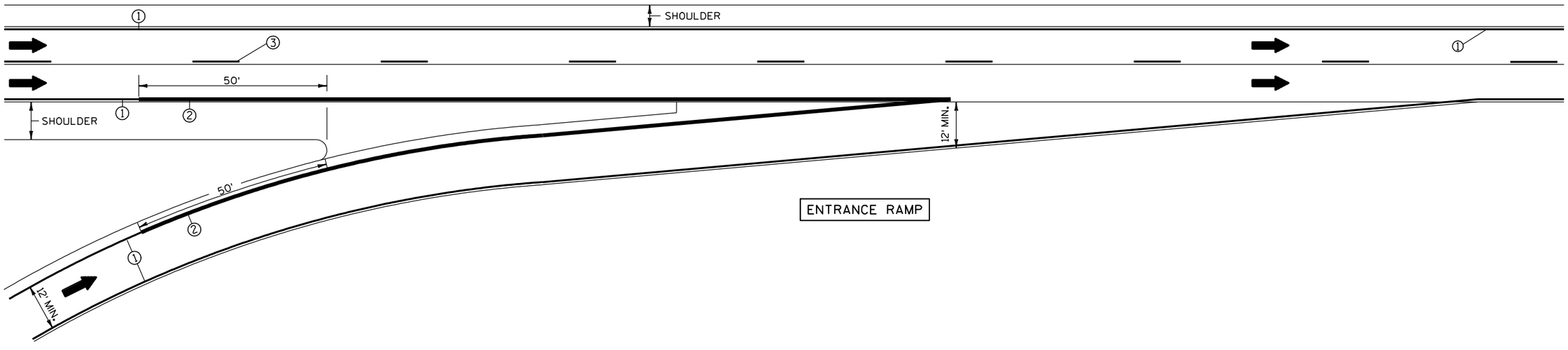
1. ARROWS SHOWN ON THIS MARKING PLAN DESIGNATE TRAFFIC FLOW, AND SHALL NOT BE TAKEN AS PROPOSED PAVEMENT MARKINGS.

2. PLACE WHITE EDGE OF TAPE 6" LEFT FROM JOINT.

3. 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE-GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.

4. RETRACE EXISTING DIAGONAL MARKINGS.

* REFER TO DESIGN NOTES.



6

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

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

PAVEMENT MARKING (RAMPS AND GORES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

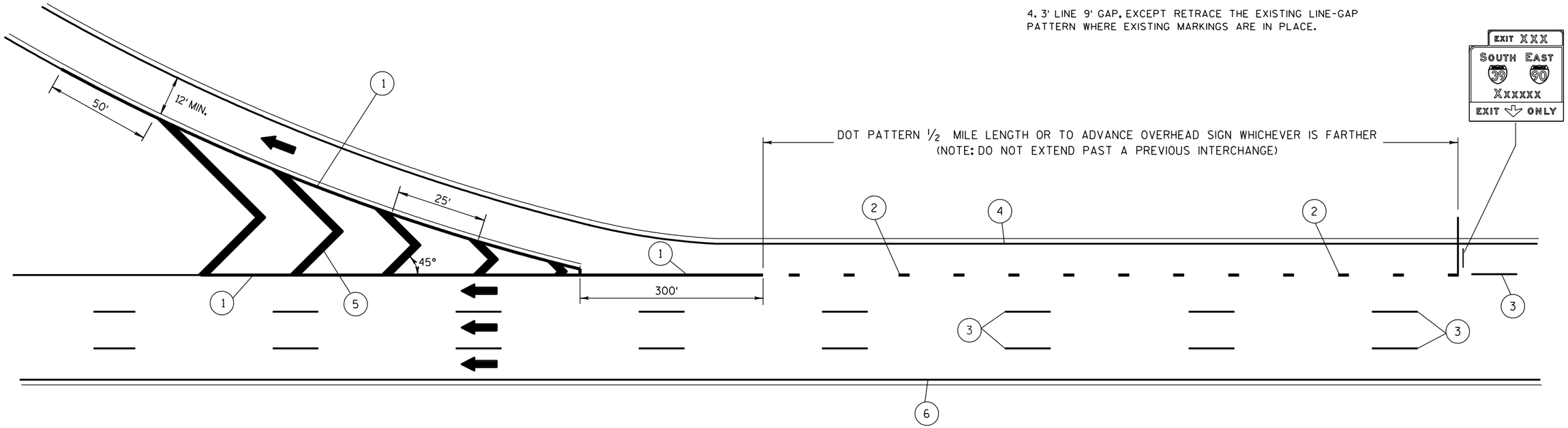
NOTES:

1. SEE STANDARD DETAIL DRAWING 15 C 10 FOR SPRAYED OR NON WET REFLECTIVE LINE SEGMENTS.

2. ARROWS SHOWN ON THIS MARKING PLAN DESIGNATE TRAFFIC FLOW, AND SHALL NOT BE TAKEN AS PROPOSED PAVEMENT MARKINGS.

3. PLACE WHITE EDGE OF TAPE 6" LEFT FROM JOINT.

4. 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE-GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.



1. CHANNELIZING - SOLID 8" WHITE WET RELECTIVE TAPE
2. 3' LINE, 9' GAP SOLID 8" WHITE WET REFLECTIVE TAPE. SEE NOTE 4.
3. SOLID 4" WHITE WET REFLECTIVE TAPE
4. 4" WHITE EDGELINE
5. CHEVRON MARKING - 24" WHITE WHEN SPECIFIED IN THE CONTRACT
6. 4" YELLOW EDGELINE

LANE DROP
PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

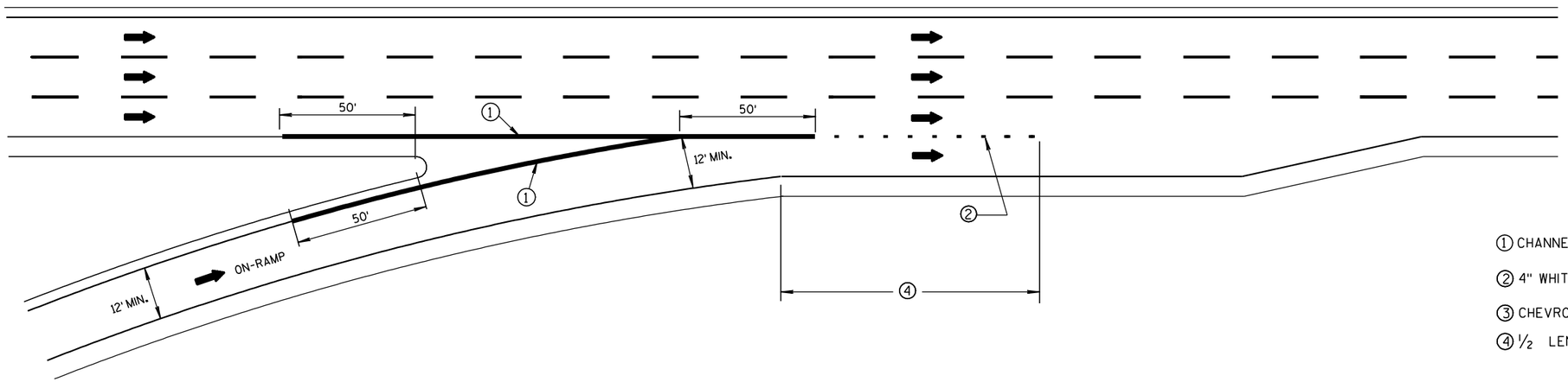
S.D.D. 15 C 31-1b

6

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

NOTES:

1. AHEAD ARROWS SHOWN ON THIS MARKING PLAN DESIGNATE TRAFFIC FLOW, AND SHALL NOT BE TAKEN AS PROPOSED PAVEMENT MARKINGS.
2. PLACE WHITE EDGE OF TAPE 6" LEFT FROM JOINT.
3. RETRACE EXISTING DIAGONAL MARKINGS.



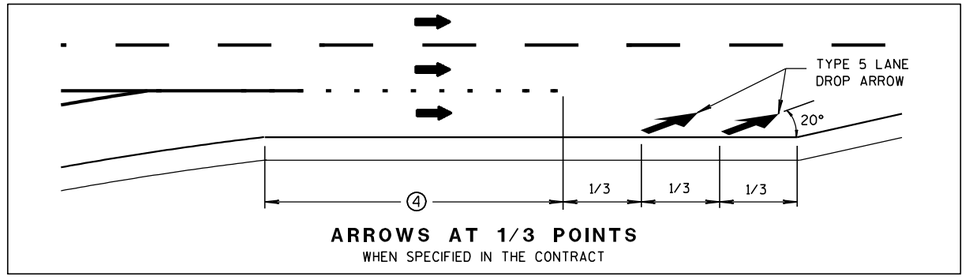
① CHANNELIZING - SOLID 8" WHITE WET REFLECTIVE TAPE IN GORE AREA.

② 4" WHITE (3' LINE, 9' GAP).

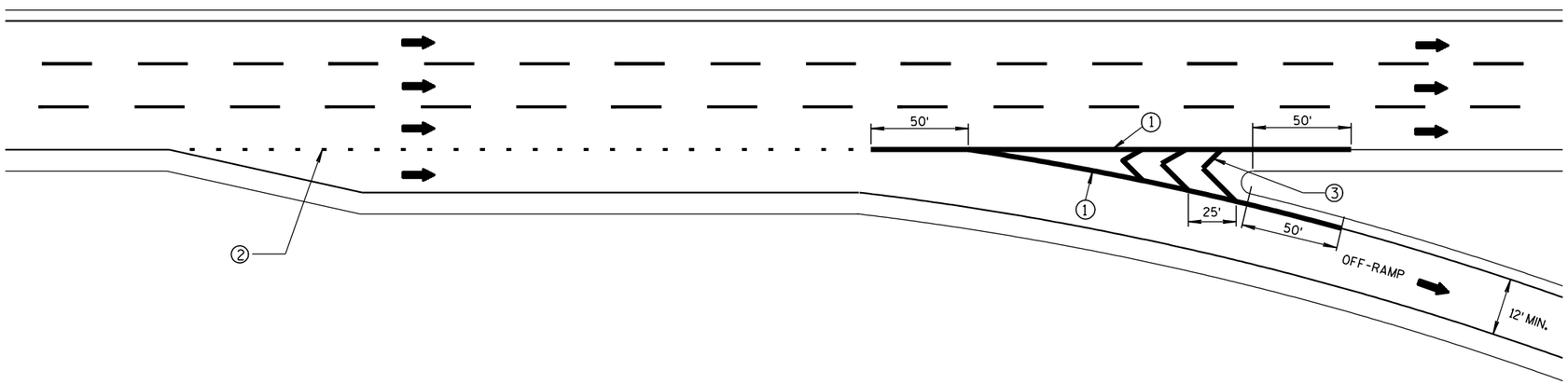
③ CHEVRON MARKING - 24" WHITE WHEN SPECIFIED IN THE CONTRACT.

④ ½ LENGTH OF FULL WIDTH ACCELERATION LANE.

SERVICE INTERCHANGE PAVEMENT MARKING FOR PARALLEL ENTRANCE-RAMP



ARROWS AT 1/3 POINTS
WHEN SPECIFIED IN THE CONTRACT



SERVICE INTERCHANGE PAVEMENT MARKING FOR PARALLEL EXIT-RAMP

PAVEMENT MARKING FOR PARALLEL ON-RAMP AND PARALLEL OFF-RAMP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

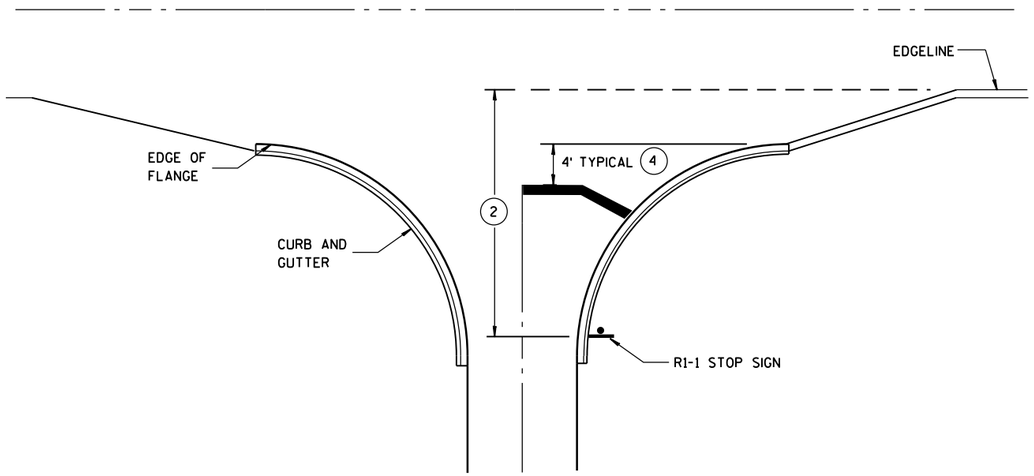
APPROVED
6/23/2011 DATE
/S/ Thomas N. Nothem
STATE TRAFFIC ENGINE 134 SIGN
FHWA

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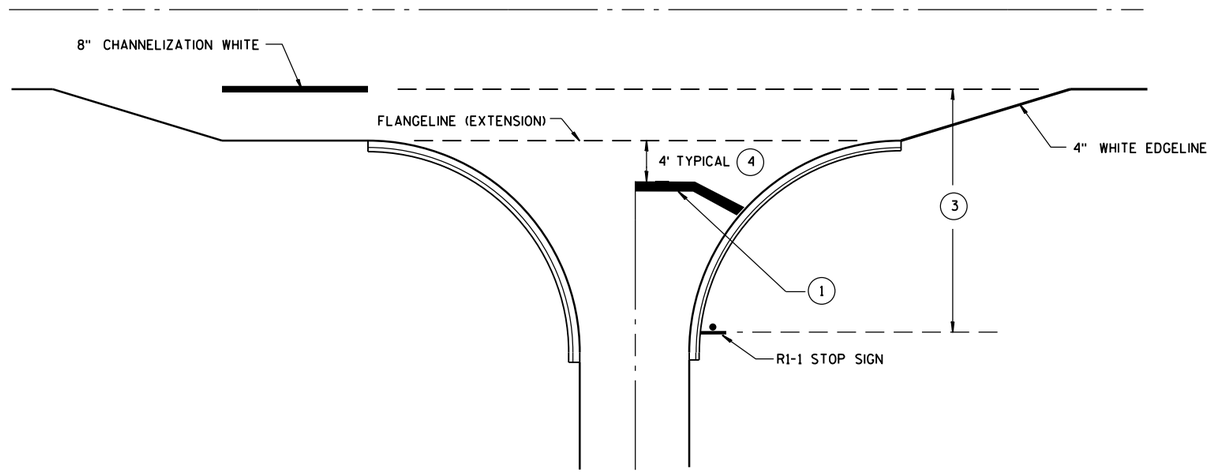
S.D.D. 15 C 31-1d

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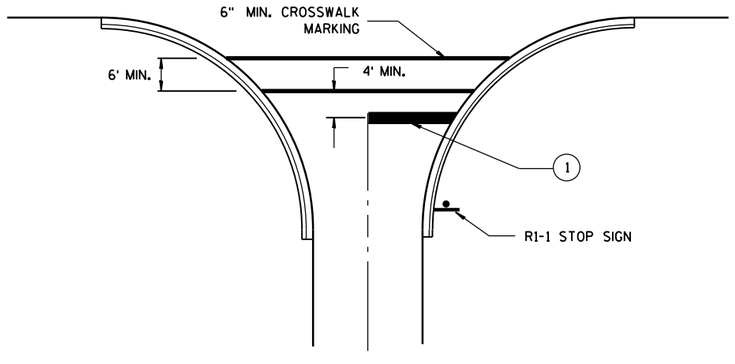
S.D.D. 15 C 31-1d



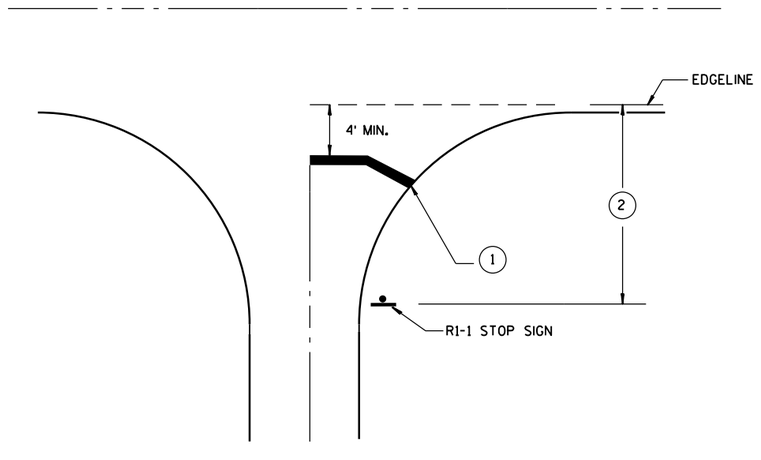
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE THAN NO STOP LINE IS REQUIRED.
3. IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.
4. MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES.

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4/30/2013
DATE

/S/ Travis Feltes
STATE TRAFFIC E

FHWA

6

S.D.D. 15 C 33-1
S.D.D. 15 C 33-1

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
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKING
- DIRECTION OF TRAFFIC
- WORK AREA

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.

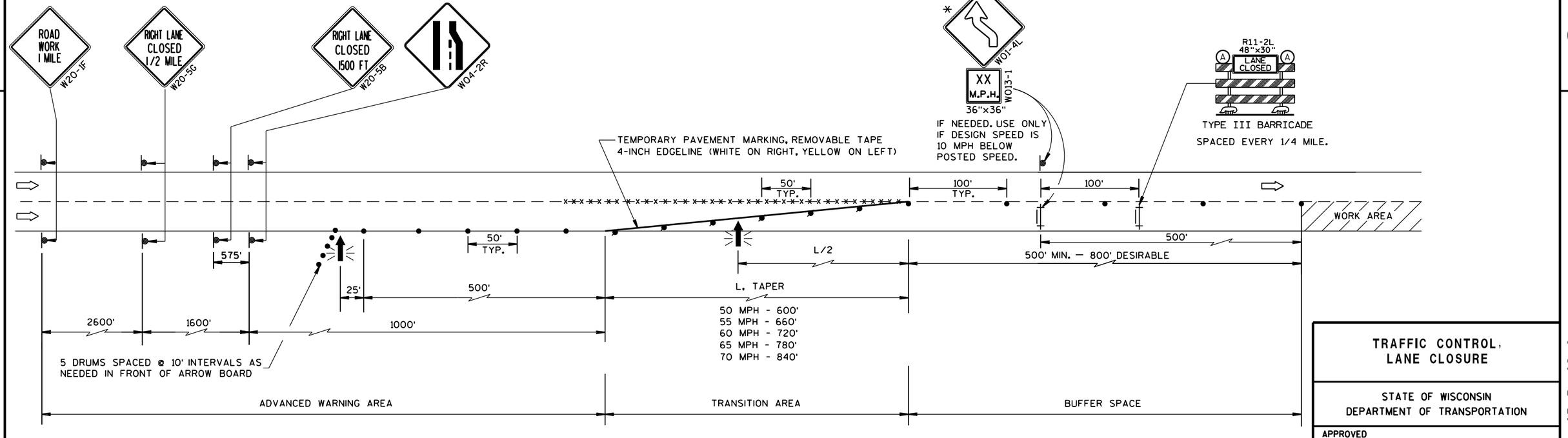
REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

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.



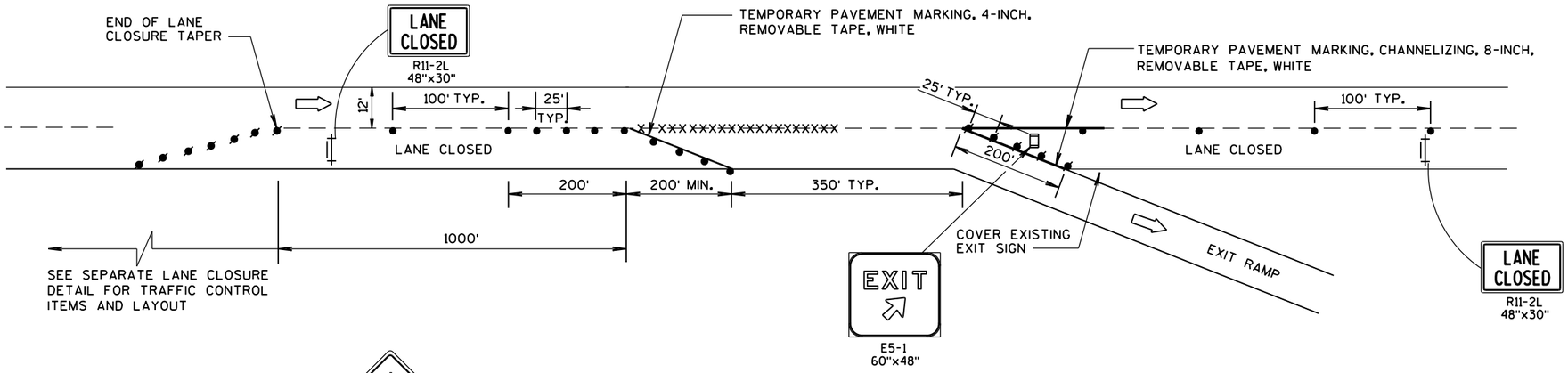
TRAFFIC CONTROL, LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

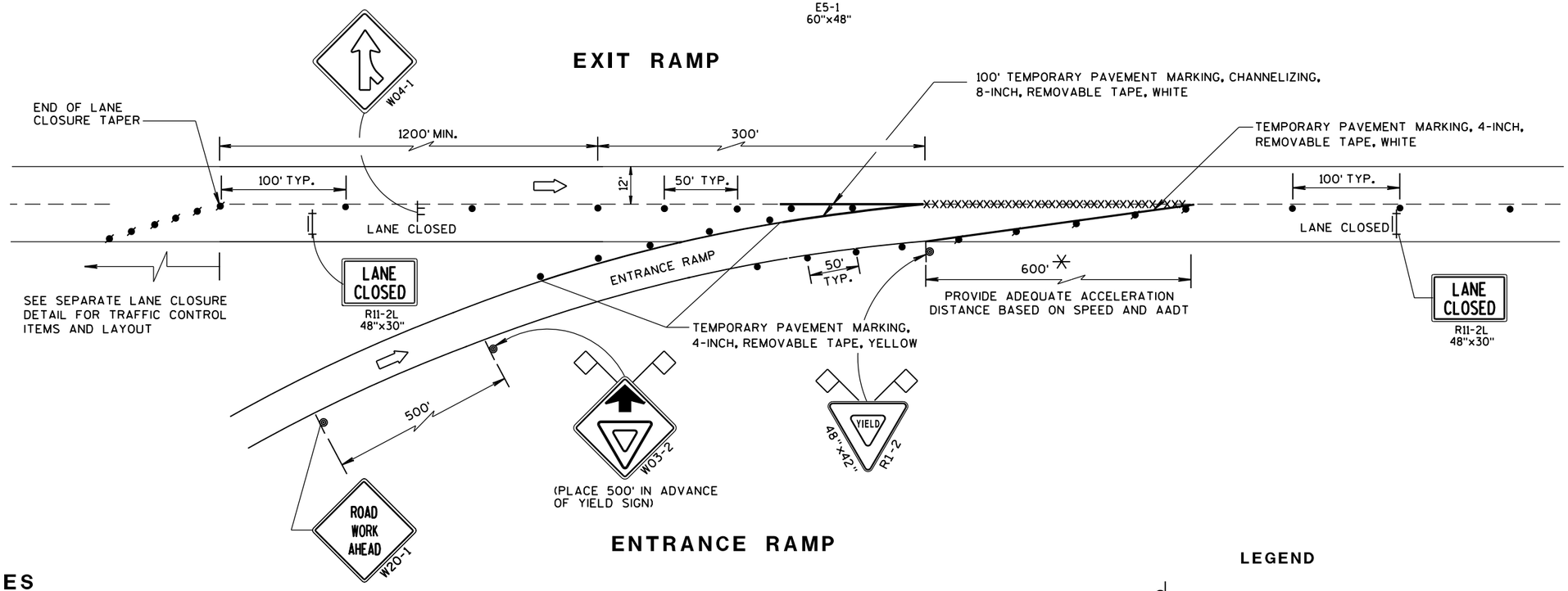
APPROVED
March 2016 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE SAFETY ENGINEER
FHWA

6

S.D.D. 15 D 12-6a



EXIT RAMP



ENTRANCE RAMP

GENERAL NOTES

THE INSTALLATIONS SHOWN ON THIS SHEET ARE TYPICAL EXAMPLES AND ARE NOT INTENDED TO REPRESENT ANY PARTICULAR RAMP. AT SPECIFIC FIELD LOCATIONS, SIMILAR INSTALLATIONS SHALL BE USED AND ADJUSTED TO THE GEOMETRICS OF THE RAMP AS COORDINATED WITH THE ENGINEER.

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

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

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

SEE SEPARATE LANE CLOSURE DETAIL FOR TYPICAL SPACING OF TYPE III BARRICADES AND R11-2L "LANE CLOSED" SIGNS.

YIELD SIGN AND WARNING SIGNS ON ENTRANCE RAMP ARE ALSO APPROPRIATE FOR CLOSURE OF THE MAINLINE LEFT LANE. OMIT THE YIELD SIGN IF MORE THAN ONE LANE REMAINS OPEN ON THE MAINLINE AND THE RAMP TAPER IS AT LEAST AS LONG AS THE NORMAL ENTRANCE RAMP TAPER AT THE SITE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR DRUMS IN THE GORE BETWEEN THE ENTRANCE RAMP AND MAINLINE TRAFFIC.

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.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 7 OR MORE CONTINUOUS DAYS AND NIGHTS.

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

* LENGTH OF OPENING MAY BE REDUCED TO 150 FEET DURING STAGING OF WORK IN IMMEDIATE AREA OF RAMP TAPER.

LEGEND

- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- TYPE III BARRICADE WITH ATTACHED SIGN
- FLAGS, 16" x 16" MIN., (ORANGE)
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe — STATEWIDE WORK ZONE SAFETY ENGINEER
FHWA

S.D.D. 15 D 15-2

S.D.D. 15 D 15-2

LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- FLASHING ARROW BOARD
- WORK AREA

GENERAL NOTES

THIS DETAIL IS TYPICAL FOR CLOSING THE RIGHT SHOULDER. FOR CLOSING THE LEFT SHOULDER, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR DIVIDED ROADWAYS WITH ANY NUMBER OF TRAVEL LANES.

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

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

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

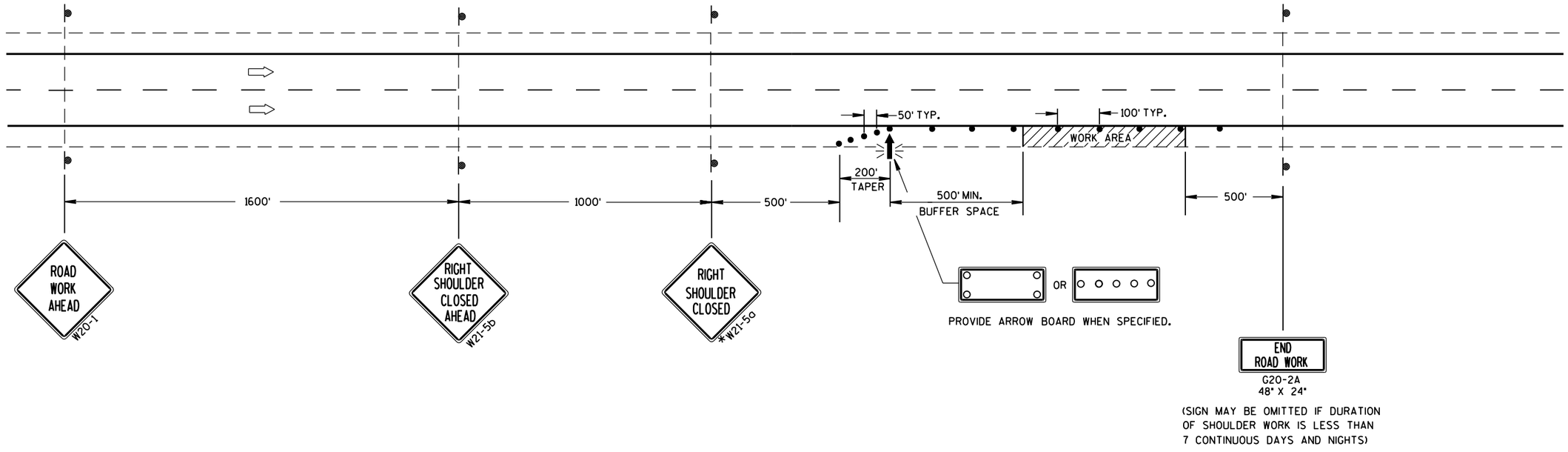
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

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

CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

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

*FOR SHORT DURATION SHOULDER WORK OF LESS THAN ONE HOUR, THE W21-5a SIGN MAY BE OMITTED.



TRAFFIC CONTROL SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

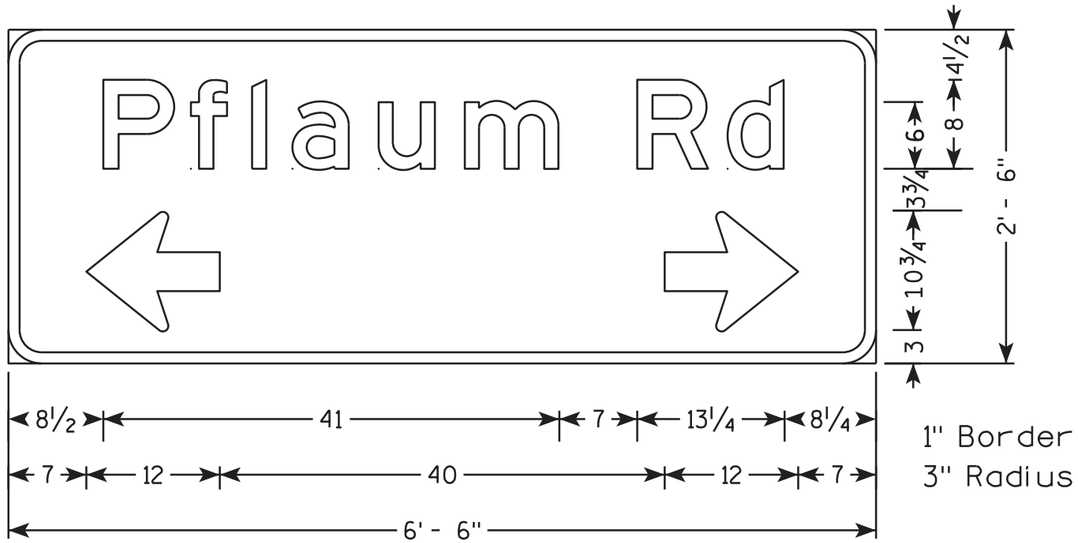
8/2013 DATE

/S/ Travis Feltes
STATE TRAFFIC ENGINEER

FHWA

6

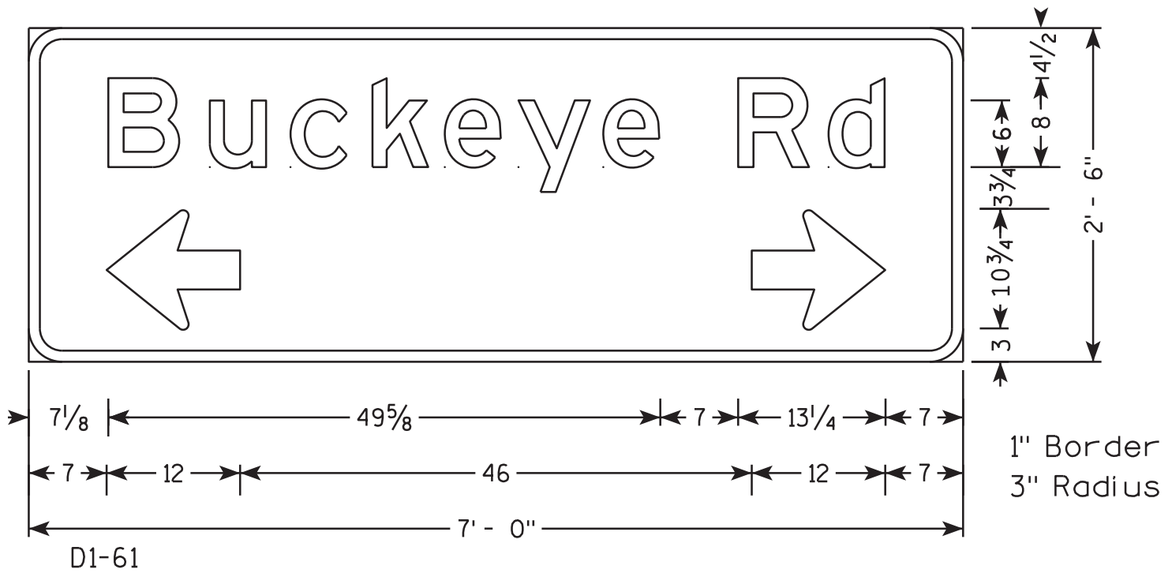
S.D.D. 15 D 27-2



D1-61

NOTES

1. All Signs Type II - Type H Reflective
2. Color:
   Background - GREEN
   Message - WHITE
3. Message Series - E



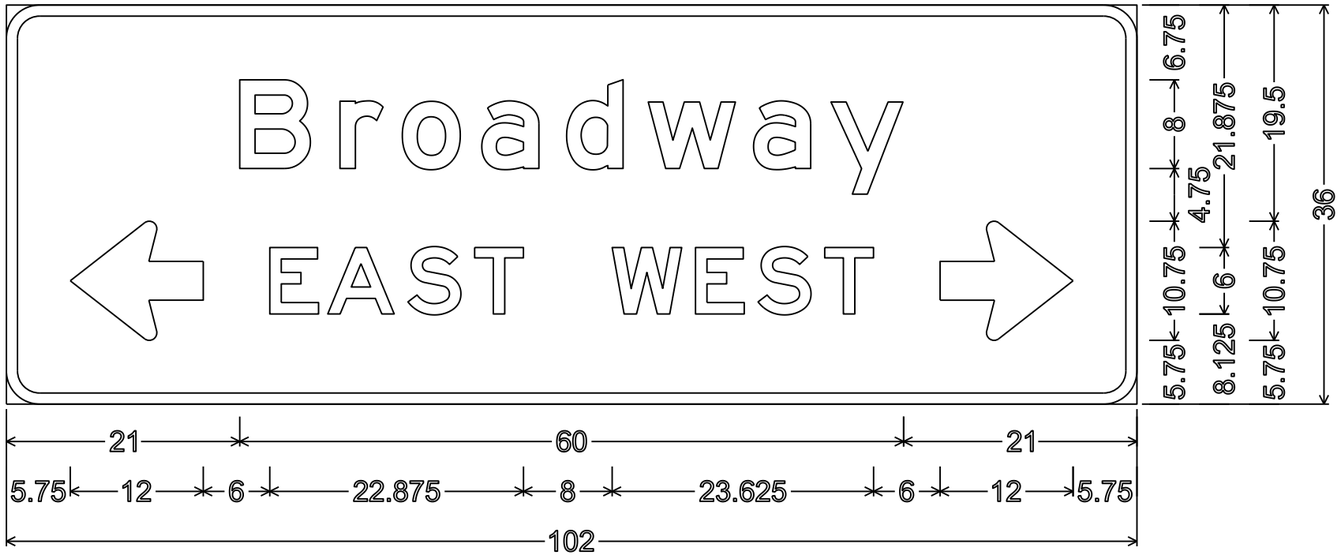
D1-61

PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	PERMANENT SIGNING	SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_d1\1139AN13.DGN PLOT DATE : 04-DEC-2014 13:46 PLOT BY : mscsjg PLOT NAME : PLOT SCALE : 13.620893:1.000000 WISDOT/CADDS SHEET 42

NOTES

1. All Signs Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E



D1-60; 3.000" Radius, 1.000" Border

7

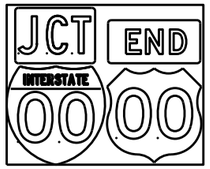
PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	PERMANENT SIGNING	SHEET NO:	E

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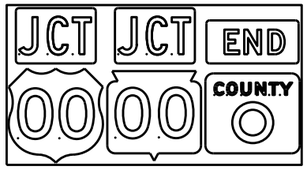
TYPICAL ASSEMBLIES



J1-1



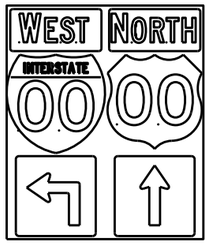
J1-2



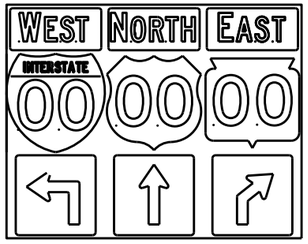
J1-3



J2-1



J2-2

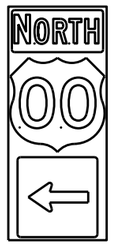


J2-3

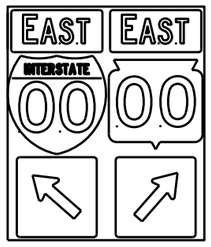


JV

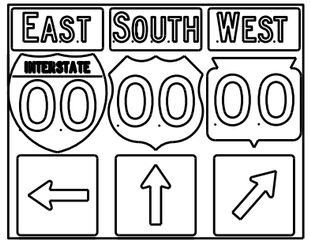
(Typical Vertical J-Assembly
See Note 10 and 11)



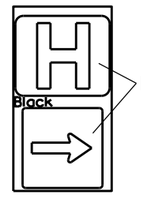
J3-1



J3-2



J3-3

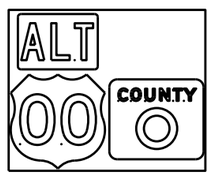


Blue Background

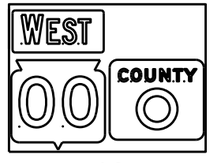
JH-1



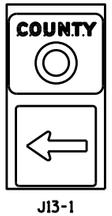
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1

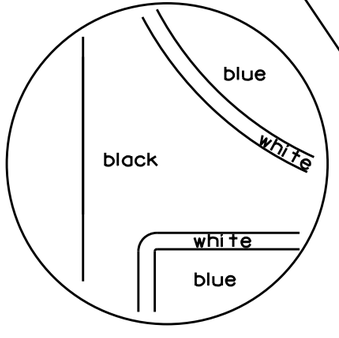


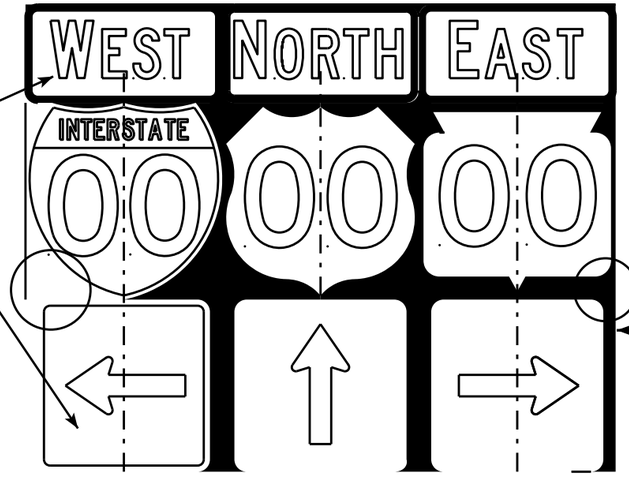
J23-1

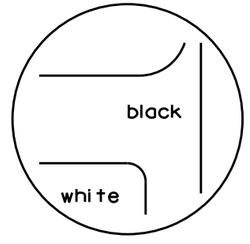


J22-1

[blue background with interstate]







[black background]

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

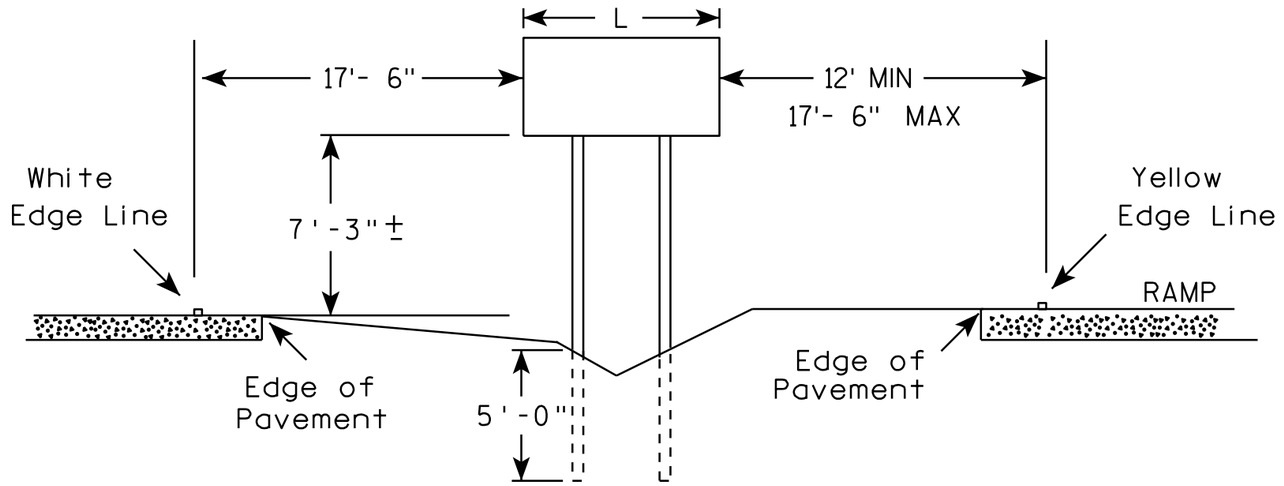
ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

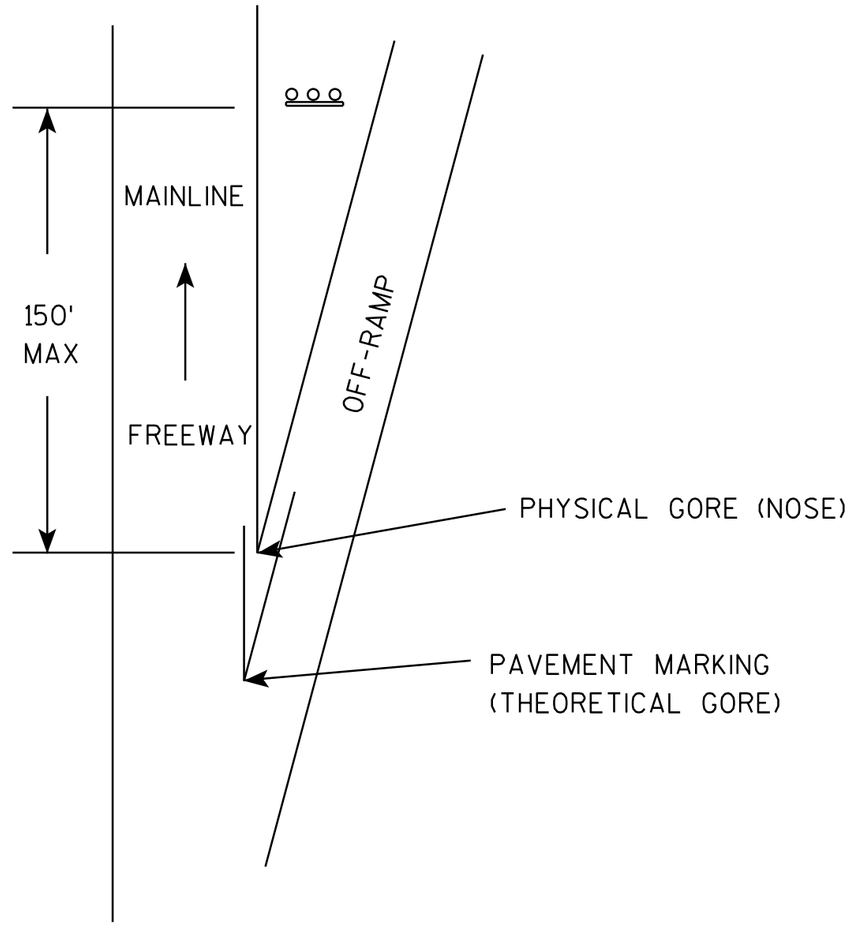
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/06/14 PL... A2-1S.8

PROJECT NO: SHEET NO: E





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 (∓) tolerance for the mounting height is 3 inches.

TYPICAL INSTALLATION
OF TYPE II SIGNS ON
WOOD POSTS IN GORE

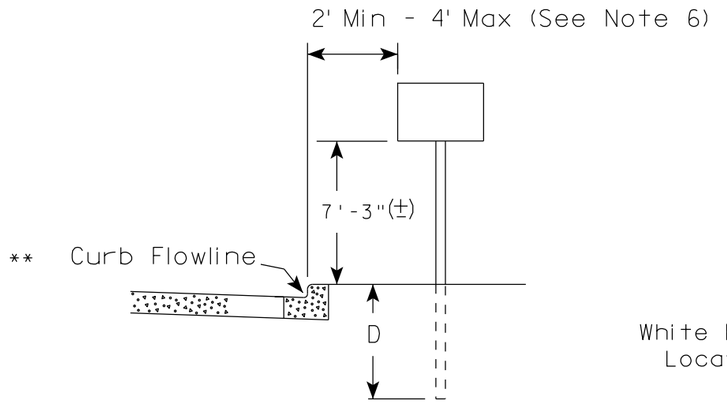
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

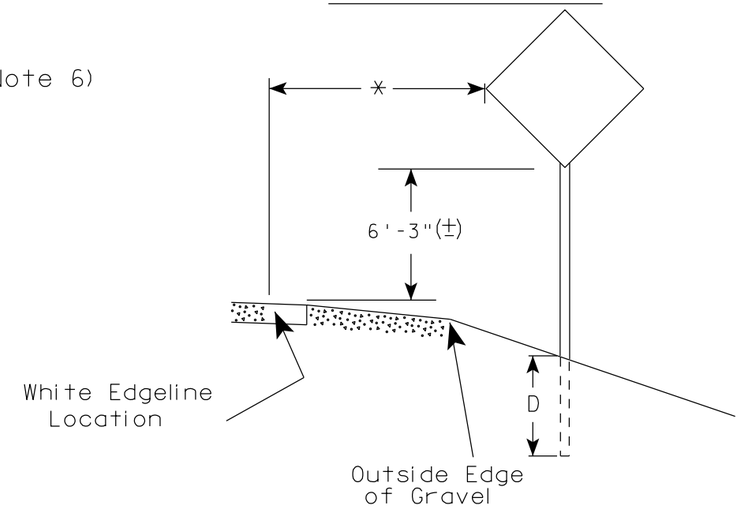
DATE 2/06/14 PLA A4-2.3

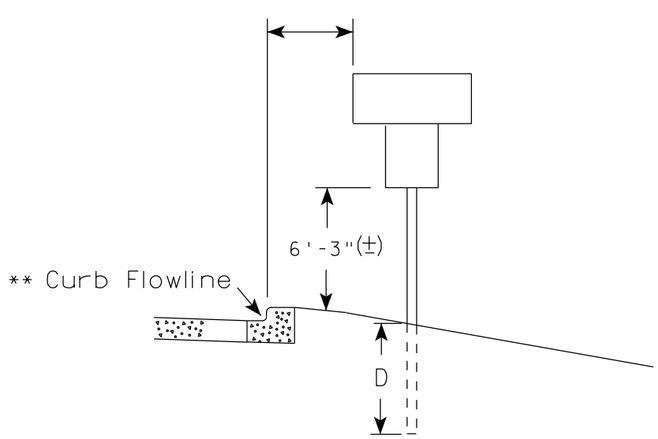
PROJECT NO: SHEET NO: E

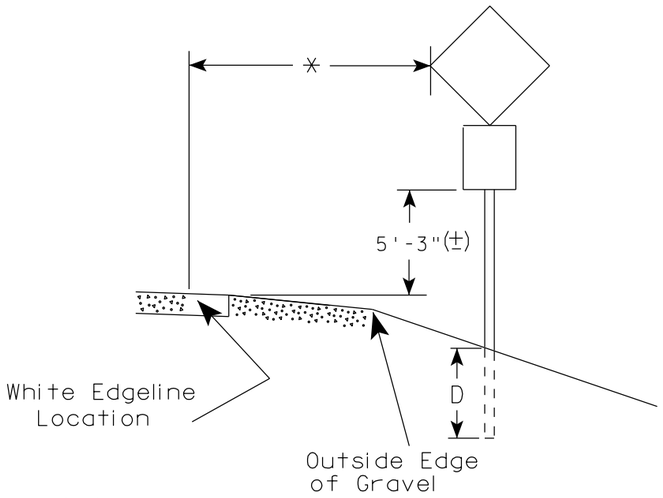
URBAN AREA



RURAL AREA (See Note 2)







** 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.

* 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.

POST EMBEDMENT DEPTH

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

GENERAL NOTES

1. Signs wider than 4 feet or 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" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
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" (±) or as directd by the Engineer.
9. 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), 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" (±).

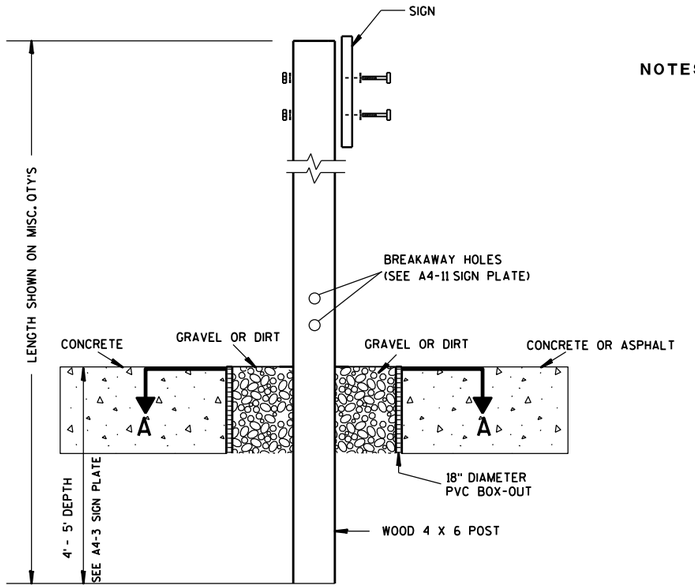
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-3.20

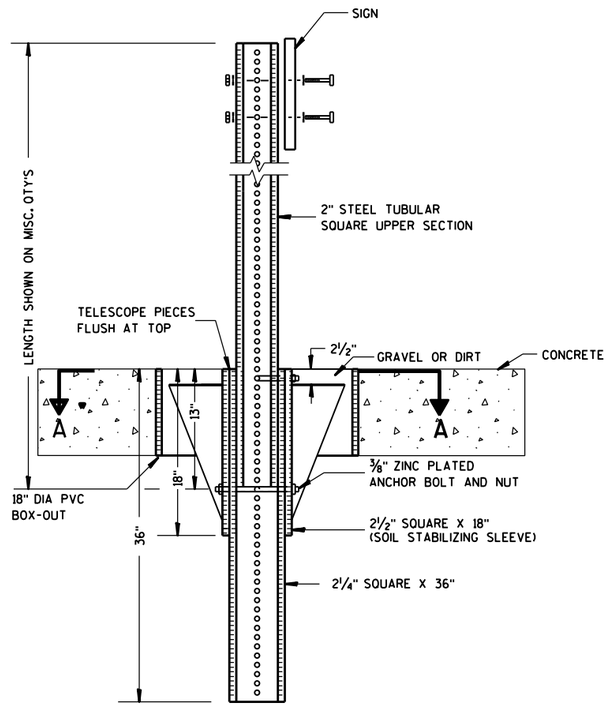
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



ELEVATION VIEW

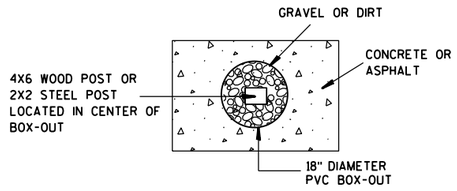
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

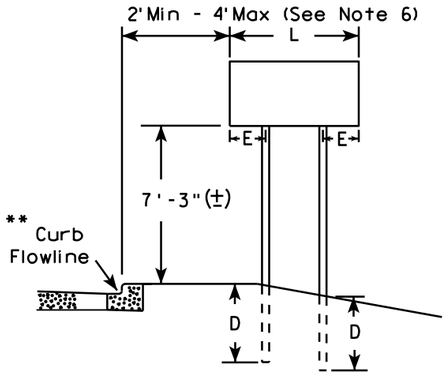
APPROVED Matthew R Rauch
for State Traffic Engineer

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

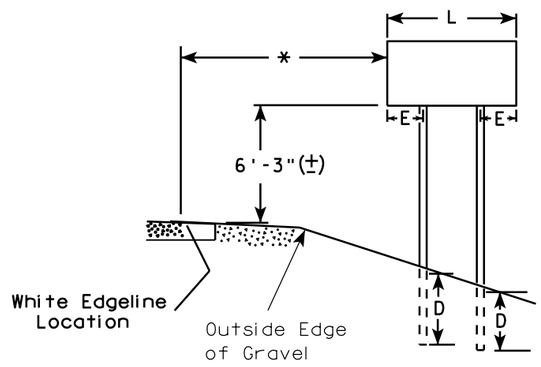
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

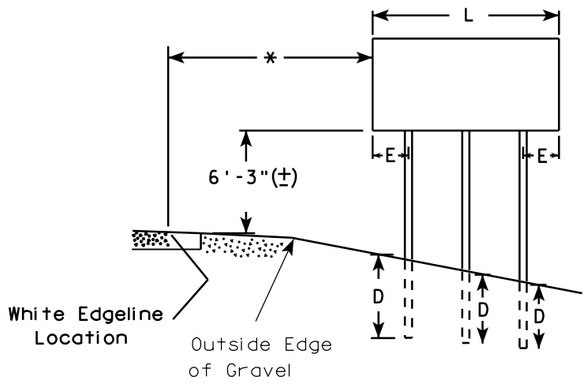
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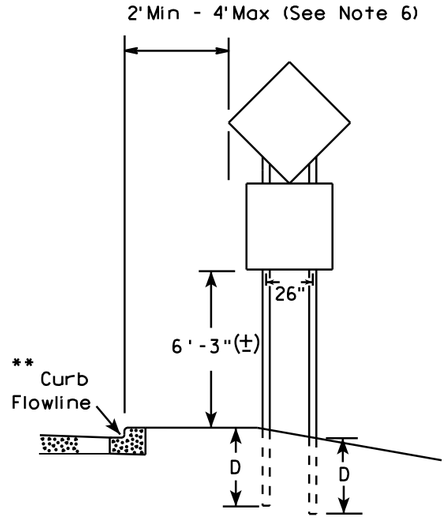
URBAN AREA



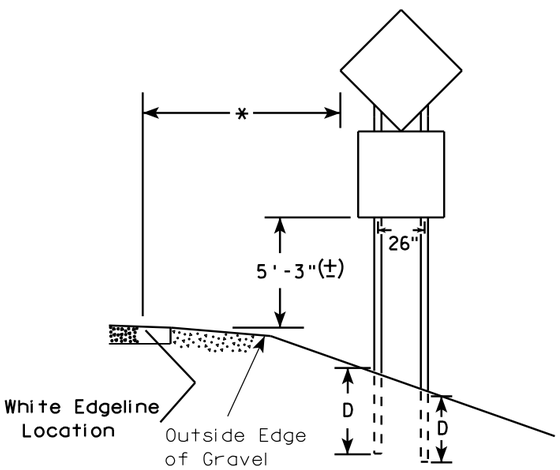
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

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 and less than 20 S.F. in area.

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
L	E
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"

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

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

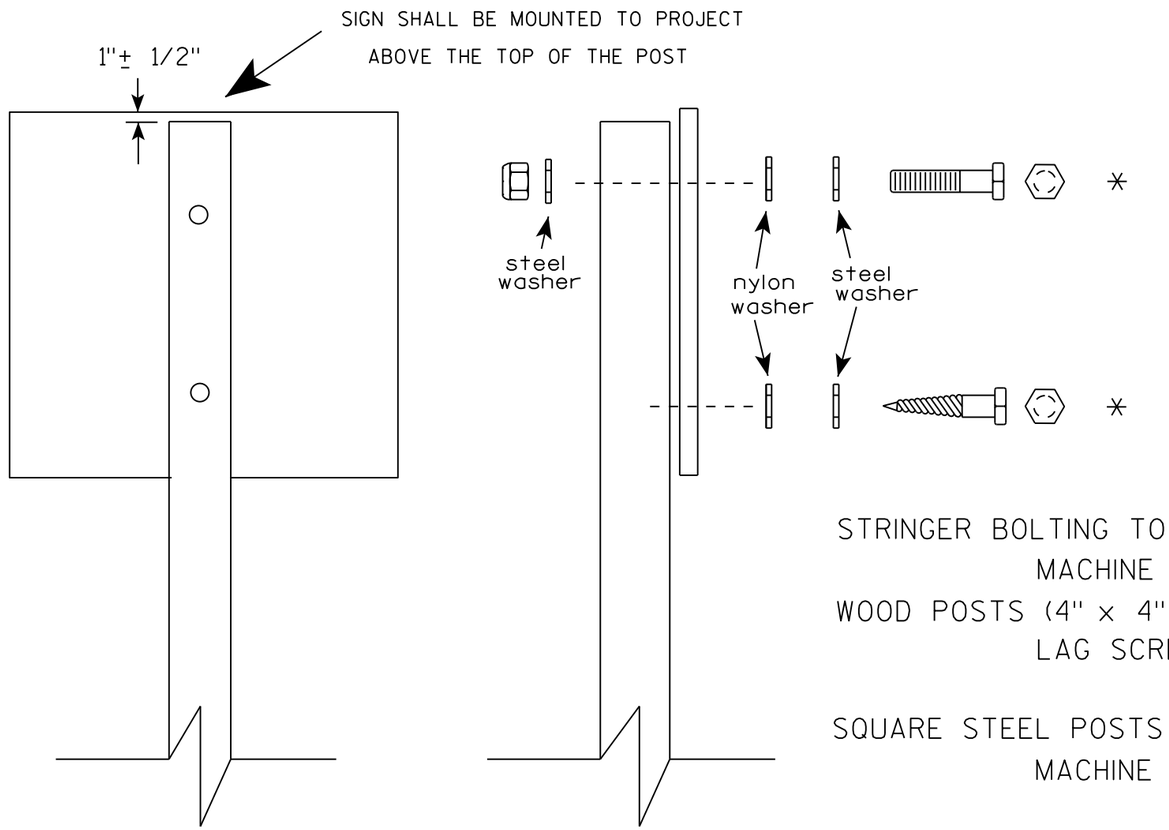
DATE 7/23/15 PLATE NO. A4-4 14

145

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A44.DGN PLOT DATE : 23-JUL-2015 15:23 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 107.021305:1.000000

WISDOT/CADDS SHEET 42



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)
MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts
WOOD POSTS (4" x 4" or 4" x 6")
LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)
SQUARE STEEL POSTS (2" x 2")
MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)
RIVETS - 9/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH
WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

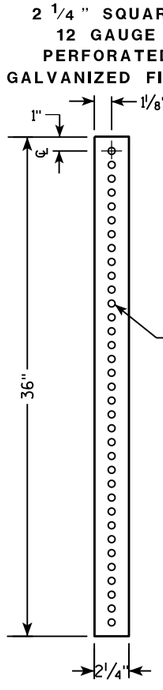
DATE 8/11/16 PLATE NO. A4-8.8

PROJECT NO: SHEET NO: E

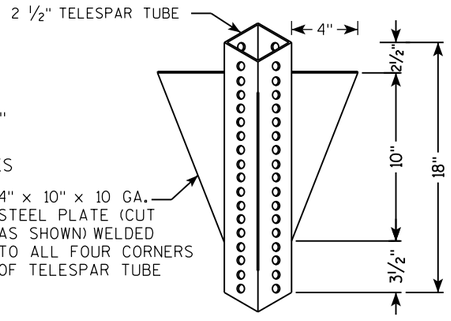
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 11-AUG-2016 11:35 PLOT BY : $$ plotuser $$

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

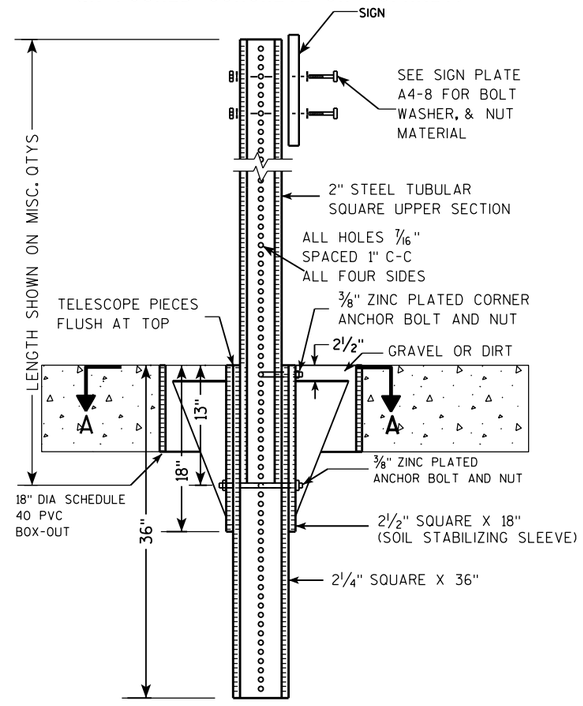
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



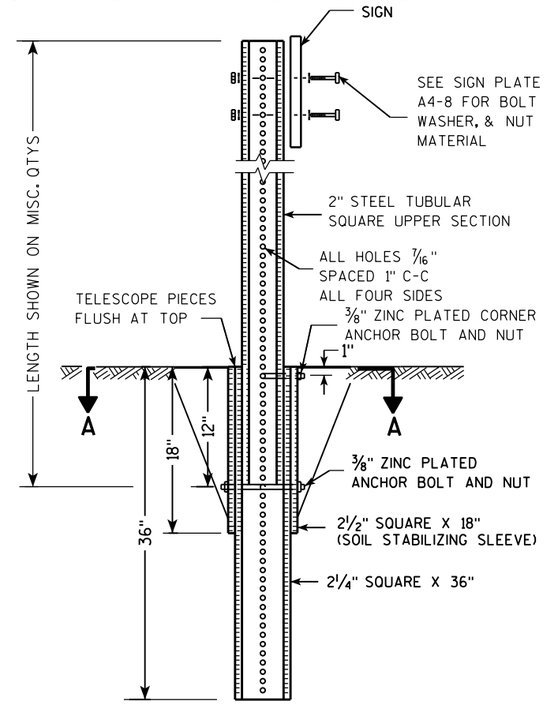
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

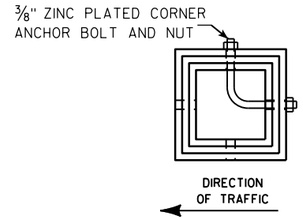


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL
SIGN POST
A4-9

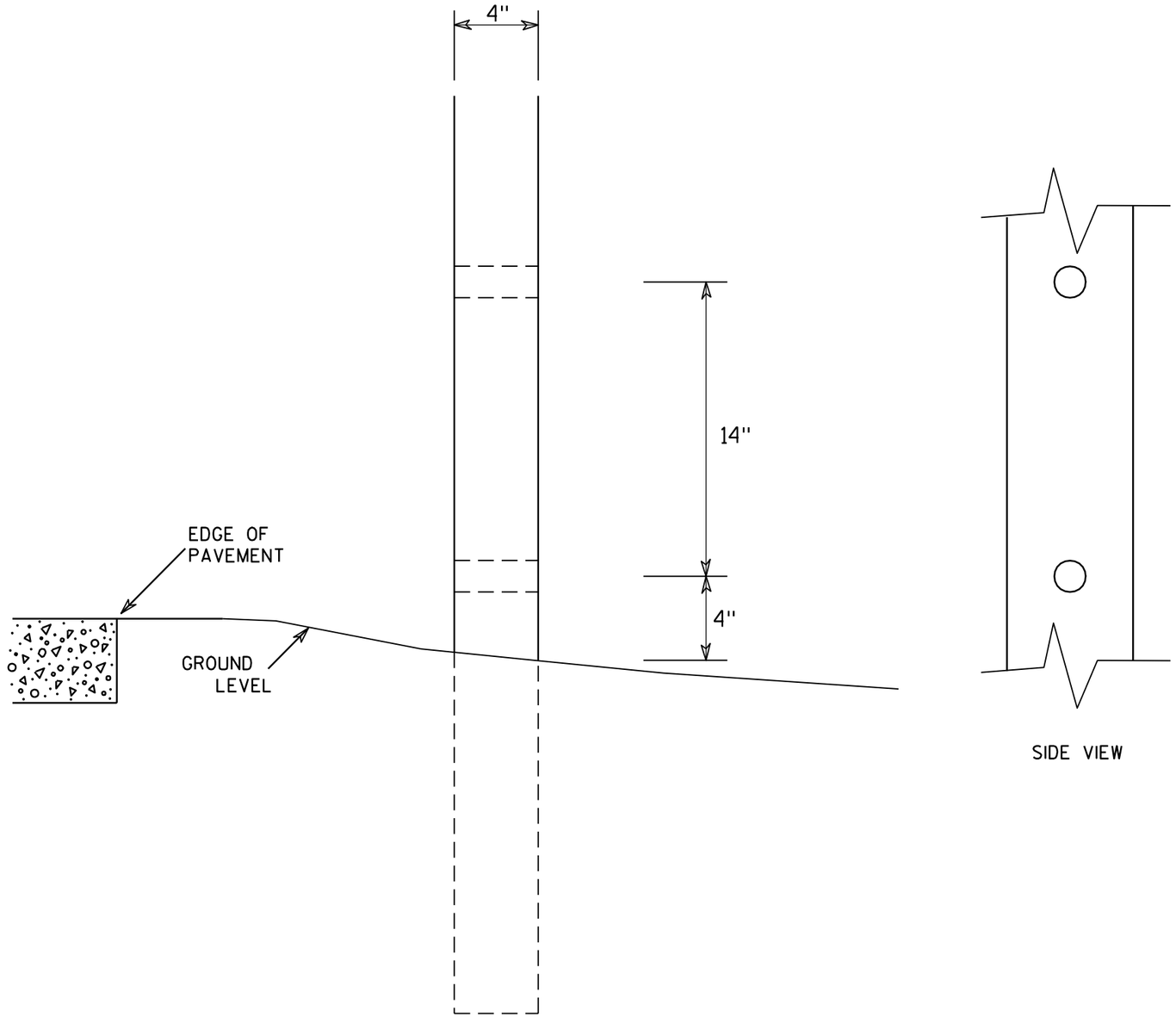
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

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
WISDOT/CADDS SHEET 42



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

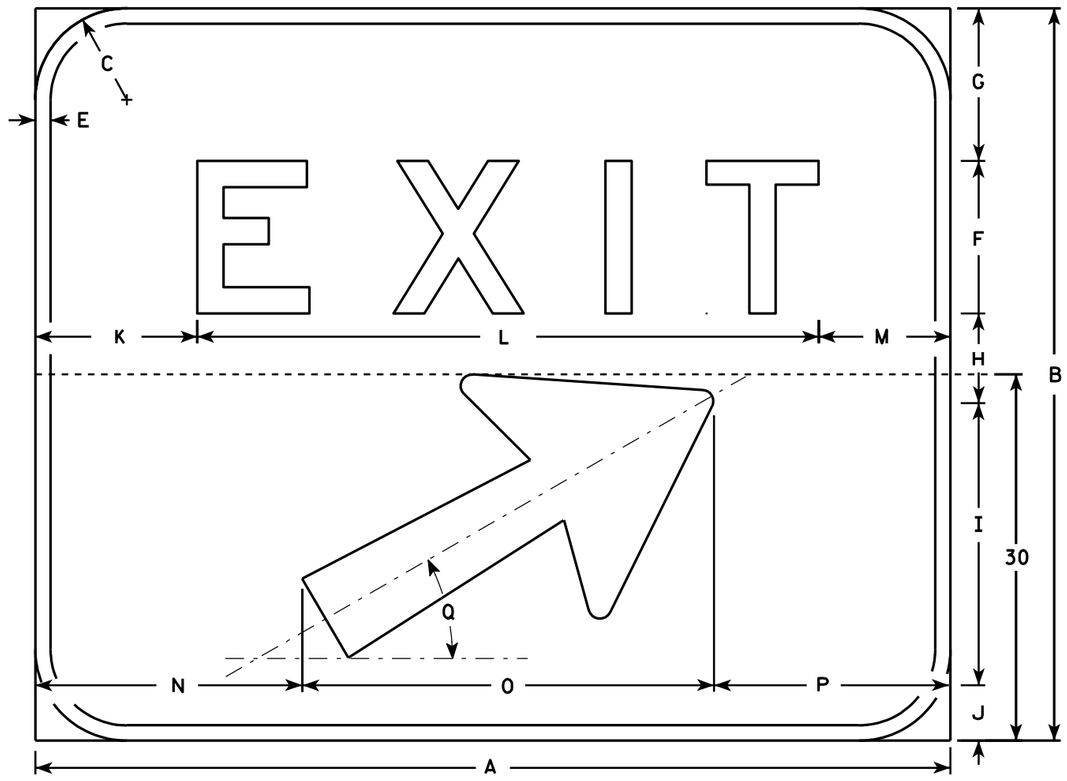
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 148	E



E5-1

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2																												
3																												
4	60	48	6		1	10	10	5 7/8	18 1/2	3 5/8	10 5/8	40 3/4	8 5/8	17 1/2	27	15 1/2	30°										20.0	1.80
5	72	60	6		1	12	12	10	18 1/2	7 1/2	13 1/4	48 1/2	10 1/4	23 1/2	27	21 1/2	30°										30.0	2.70

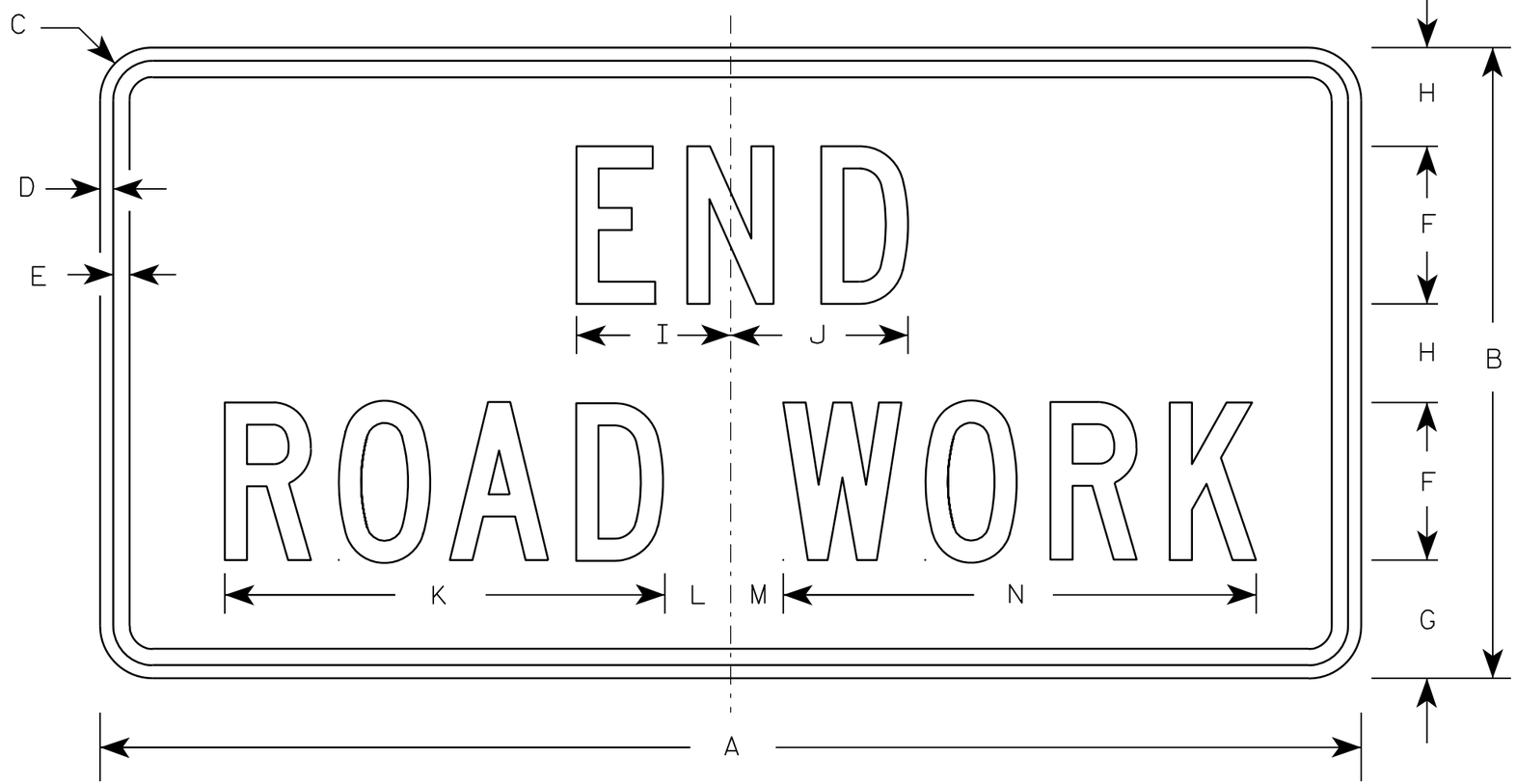
STANDARD SIGN
E5 - 1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

DATE 6/22/00 PLATE NO. E5-1.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 149	E



G20-2A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. 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	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	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 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

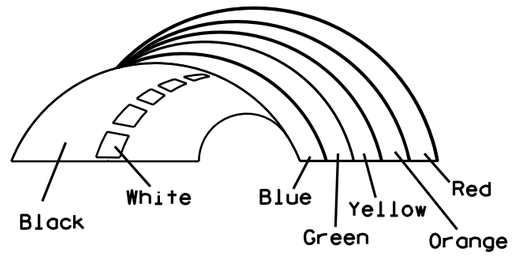
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 150	E



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - (See Note 5)
3. Message Series - (See Note 6)
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. Border - Blue
   Line 1 - Red
   Line 2 - Black
   Line 3-5 - Blue
6. Line 1 - Dutch 8011L
   Line 2 - Series E
   Line 3-5 - Series C
7. Contractor shall provide and install a new post bracket in accordance with the I55-56B sign detail.

Background Colors of Symbol*



*1/4" Black Border between each color of rainbow and border of rainbow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	36	1 1/2	1/2	5/8	3	2	3 1/2	2 7/8	1	8	2 1/8	11 1/4	11 1/8	9 3/8	1 1/4		3/4	12 5/8	7 1/2							7.5
3																											
4																											
5																											

STANDARD SIGN
I55-56

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

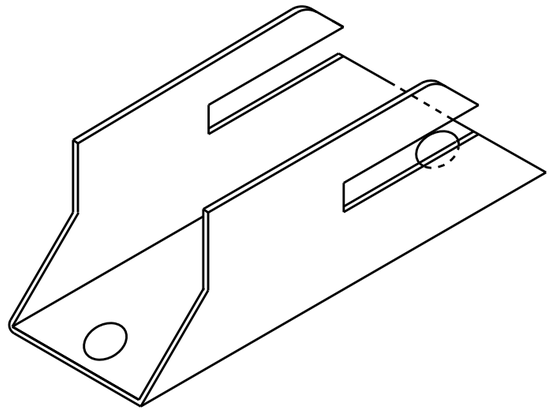
DATE 4/27/11 PLATE NO. 155-56.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 151

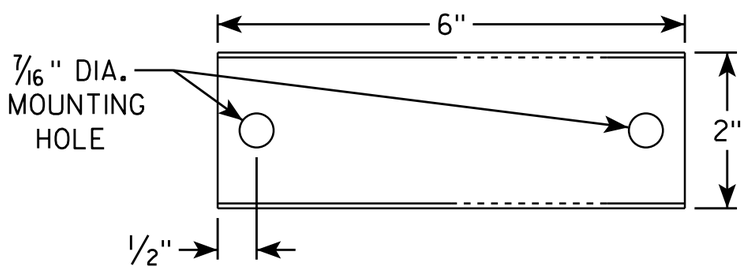
NOTES

1. Must be capable of permanent attachment to a wood or steel channel sign post utilizing the fastening hardware specified on the A4-8 sign plate.
2. Shall be entirely primed and painted with two coats of a black powder coated enamel paint.
3. Shall be made with 12 gauge steel, and incorporate no welds, no hinged components, no threaded lock-type components, and no parts which are loose or can be separated from the main body.
4. Shall have rounded edges with at least 1/8" radii.
5. Shall not have unrounded and uncoated metal edges which can contact the back surface of the roll-up sign.
6. Top of bracket shall be mounted 2' below the bottom of the I55-56 sign.
7. Cost of bracket and fastening hardware shall be incidental to the I55-56 sign.

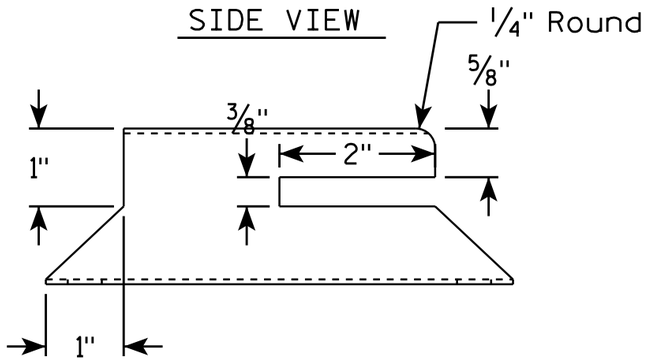
ISOMETRIC VIEW



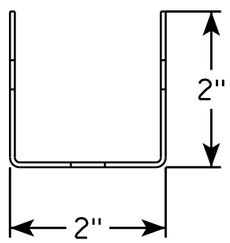
TOP VIEW



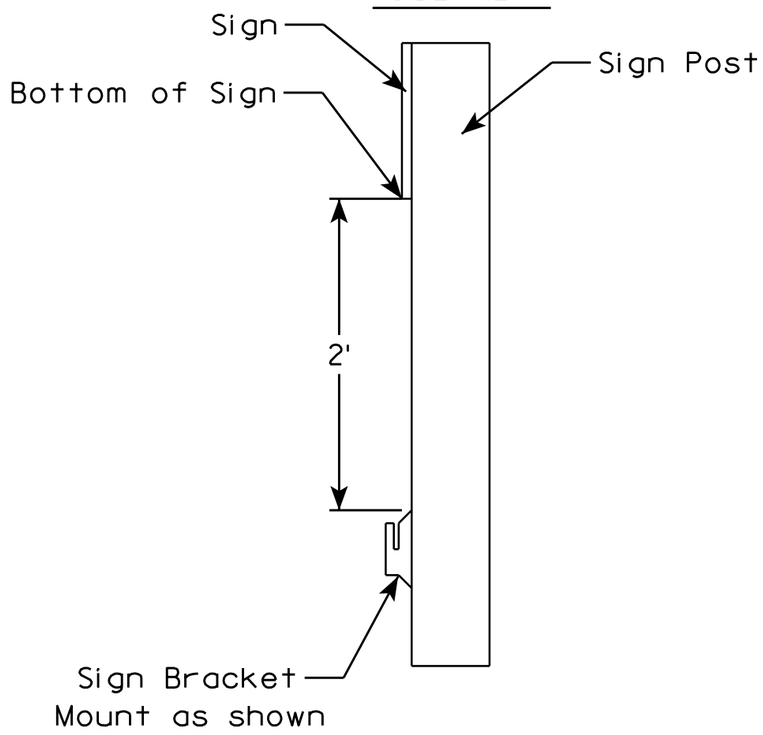
SIDE VIEW



END VIEW



SIDE VIEW



ROLLUP SIGN BRACKET
I55-56B

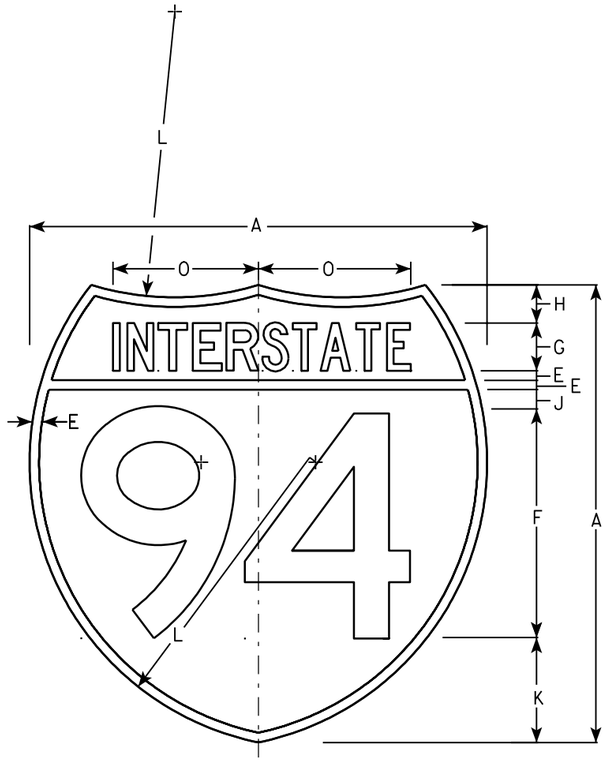
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

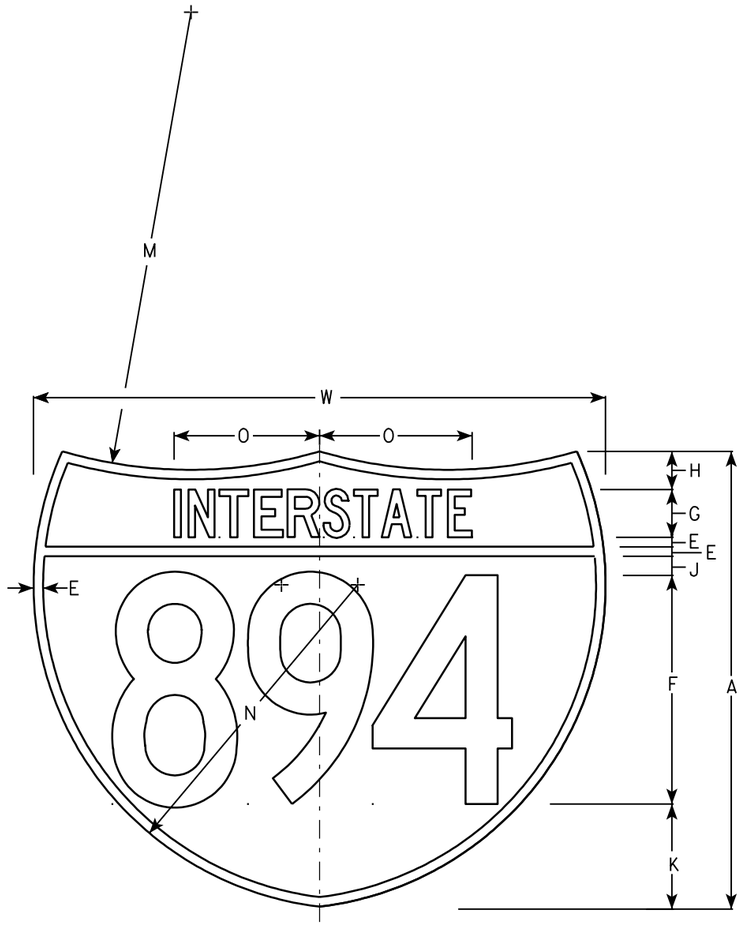
DATE 4/26/16 PLATE I55-56B.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\I5556B.DGN PLOT DATE : 26-APR-2016 17:29 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 1.945842:1.000000
WISDOT/CADDS SHEET 42



M1-1



M1-1A

NOTES

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

7

Metric equivalent for these signs are:

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	M1-1 Area sq. ft.	M1-1A Area sq. ft.	M1-1 Area m2	M1-1A Area m2
1																													
2	24				1/2	12	2 1/2	2		1	5 1/2	15	24	17	7 7/8								30			3.13	3.91	.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	.81	1.05
5	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

INTERSTATE ROUTE MARKER
M1-1 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

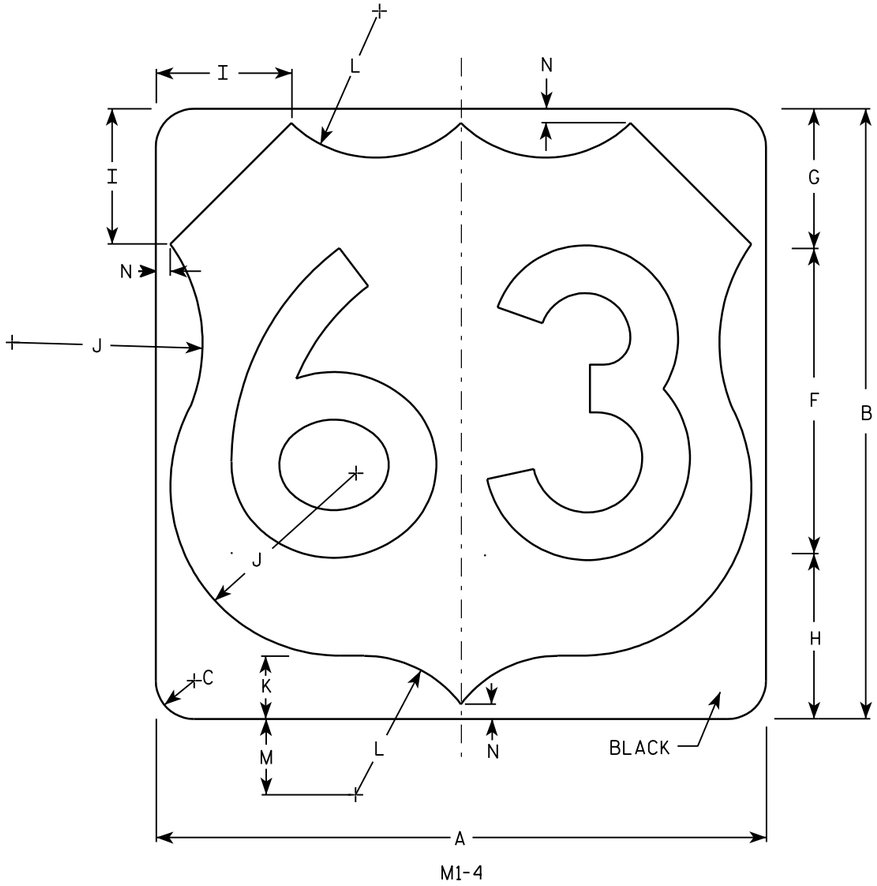
APPROVED Matthew R Rauch
for State Traffic Engineer

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

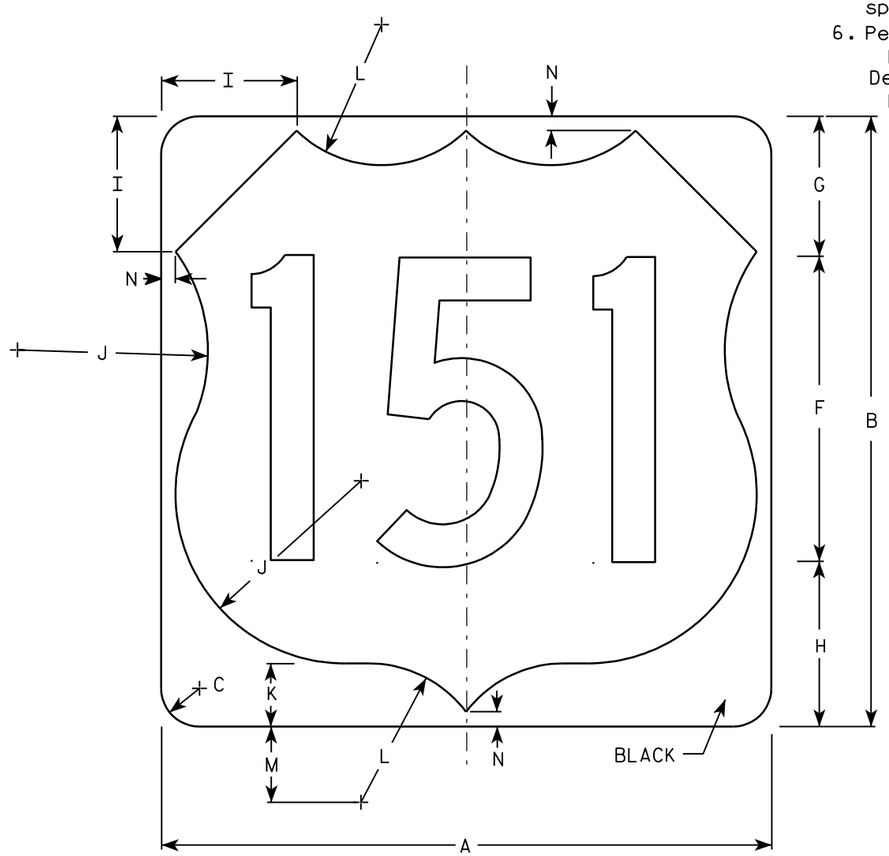
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 153	E

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 6
   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. Substitute appropriate numerals and adjust spacing as per Plate A10-1.
6. Permanent Signs
   Background - Type H Reflective
   Detour or other temporary signs
   Background - Reflective



M1-4



M1-4

Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 600 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	900 mm X 900 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24	24	1 1/2			12	5 1/2	6 1/2	5	7 1/2	2 1/2	5 1/2	3	1/2													4.0	.36
3	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81
4	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81
5	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81

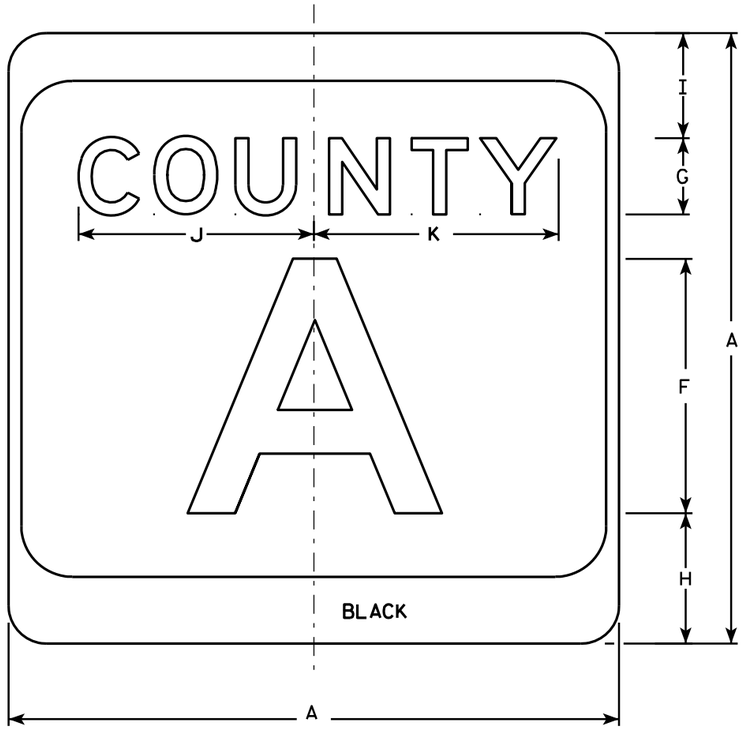
USH MARKER
M1-4 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

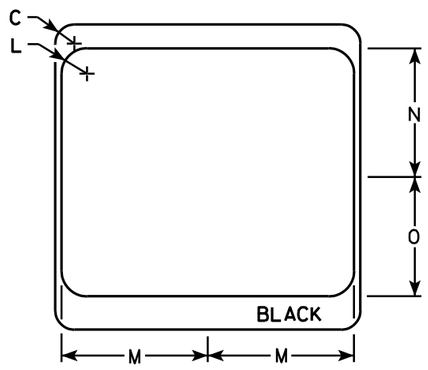
APPROVED Matthew R Rauch
for State Traffic Engineer

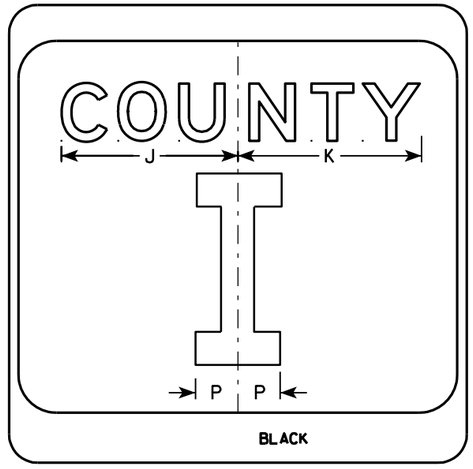
DATE 08/25/05 PLATE NO. M1-4.9

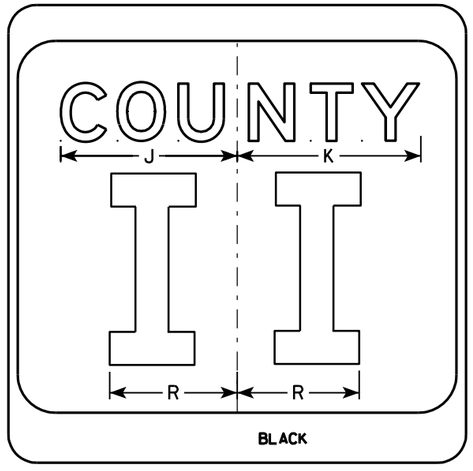
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 154 | E



M1-5A







NOTES

1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 7
   Message - Black
3. Message Series - see Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Message Series E for 1 letter.
   Message Series D for 2 letters unless message is too big then Series C.
   Message Series C for 3 letters unless message is too big then Series B.
6. Substitute appropriate letters & optically center to achieve proper balance.
7. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

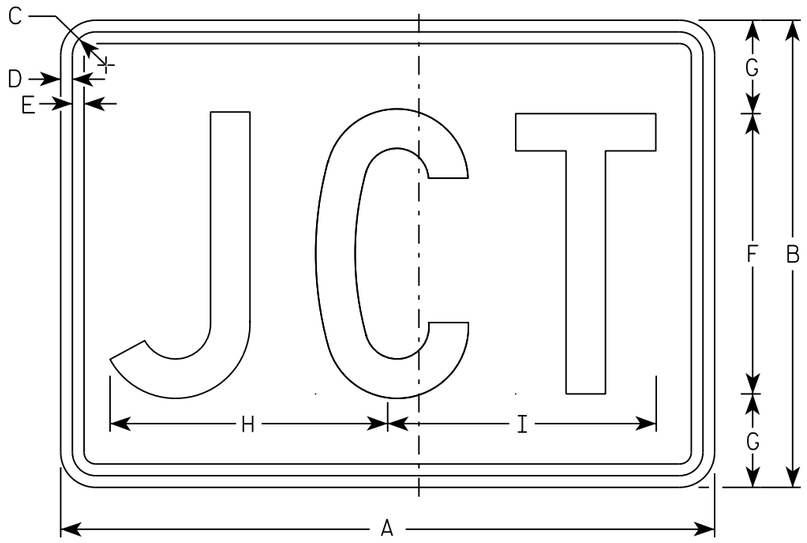
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

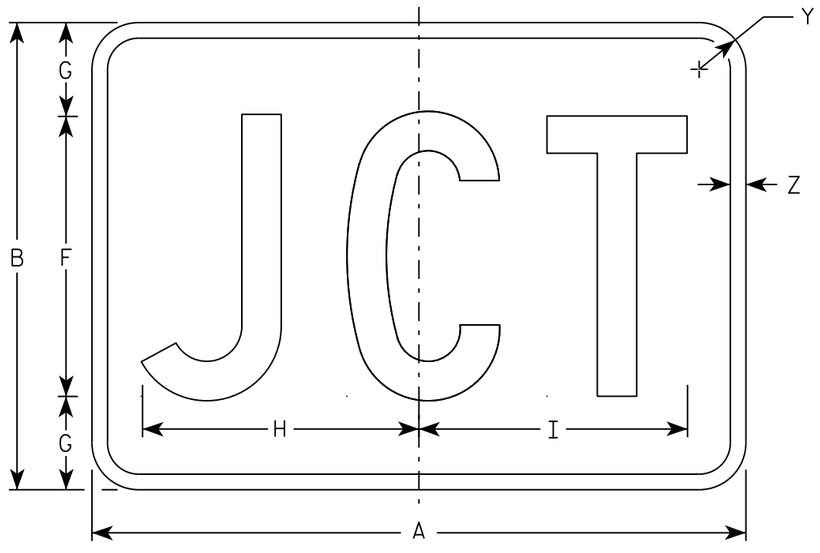
APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 155	E



M2-1
MM2-1
MP2-1



MB2-1
MK2-1
MN2-1
MR2-1

NOTES

1. Sign is 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. M2-1 Background - White
   Message - Black
   MB2-1 Background - Blue
   Message - White
   MK2-1 Background - Green
   Message - White
   MM2-1 Background - White
   Message - Green
   MN2-1 Background - Brown
   Message - White
   MP2-1 Background - White
   Message - Blue
   MR2-1 Background - Brown
   Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40

STANDARD SIGN
M2-1

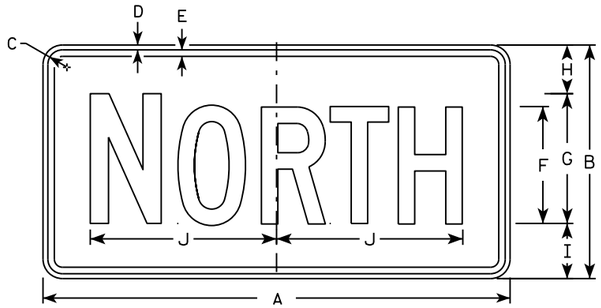
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

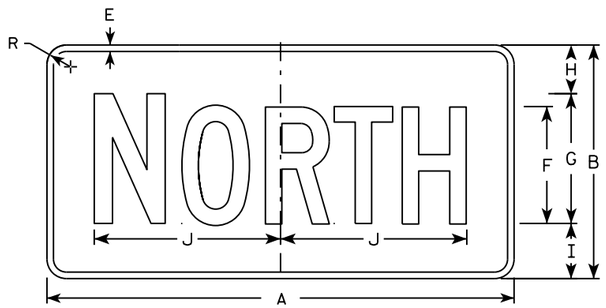
DATE 10/15/15 PLATE 156 12-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M21.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.864603:1.000000



M3-1
MM3-1
MP3-1



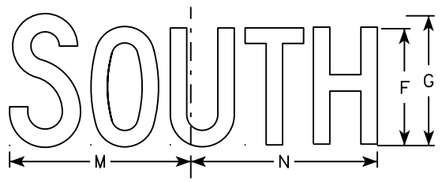
MB3-1
MK3-1
MN3-1



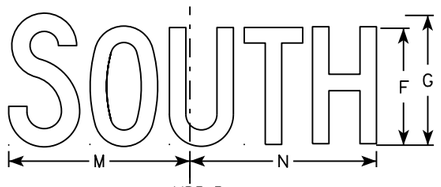
M3-2
MM3-2
MP3-2



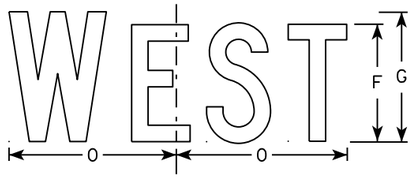
MB3-2
MK3-2
MN3-2



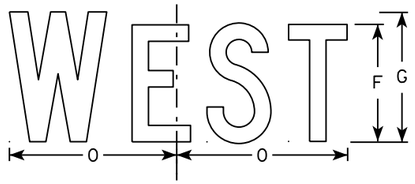
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

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
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	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

STANDARD SIGNS
M3-1 thur M3-4
SERIES

WISCONSIN DEPT OF TRANSPORTATION

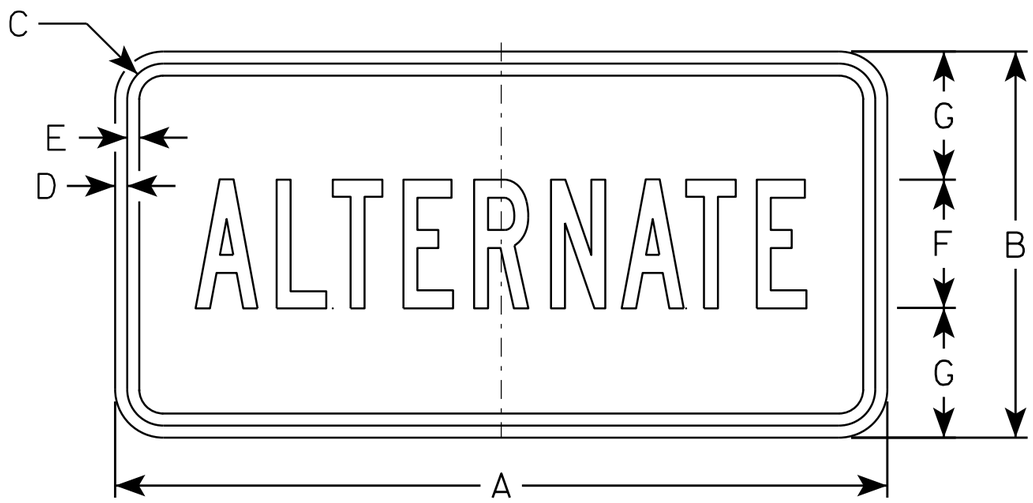
APPROVED Matthew P Rauch for State Traffic Engineer

DATE 10/15/15 PLATE NO M3-1.14

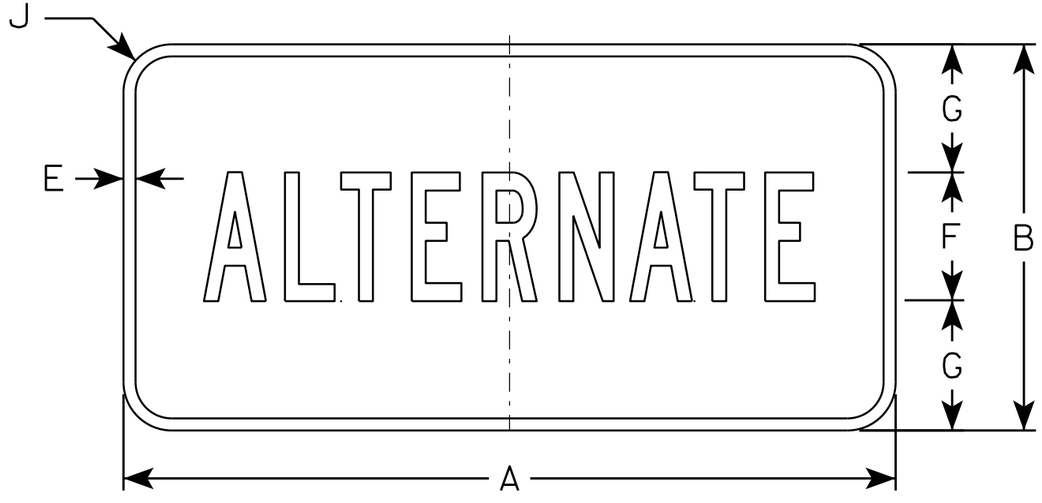
PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000

7



M4-1
MO4-1



MB4-1

NOTES

1. Sign is Type II - Type H except as Shown
2. Color:
   Background - See Note 5
   Message - See note 5
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-1 Background - White
   Message - Black

   MB4-1 Background - Blue
   Message - White

   MO4-1 Background - Orange - Type F
   Message - Black

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	4	4	9 3/4	9 1/2	1 1/2																	2.00
3	36	18	1 1/8	3/8	1/2	7	5 1/2	16 3/8	16 1/2	1 1/2																	4.5
4	36	18	1 1/8	3/8	1/2	7	5 1/2	16 3/8	16 1/2	1 1/2																	4.5
5	36	18	1 1/8	3/8	1/2	7	5 1/2	16 3/8	16 1/2	1 1/2																	4.5

STANDARD SIGN
M4-1

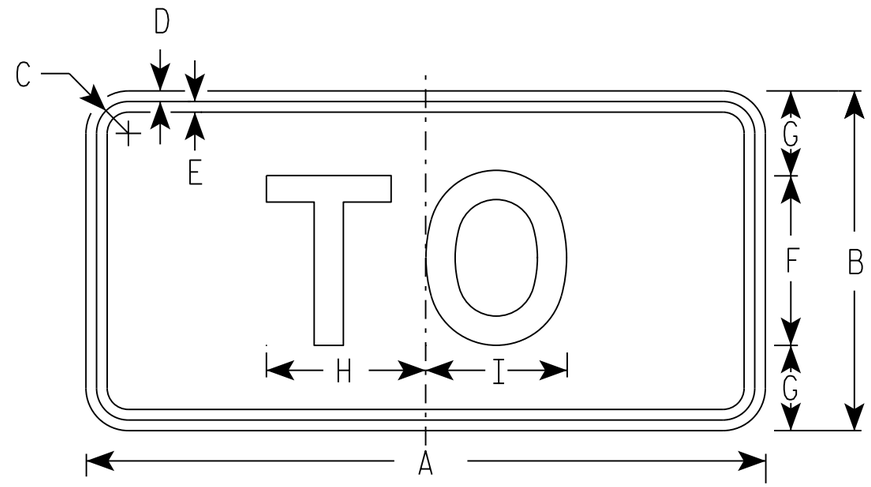
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

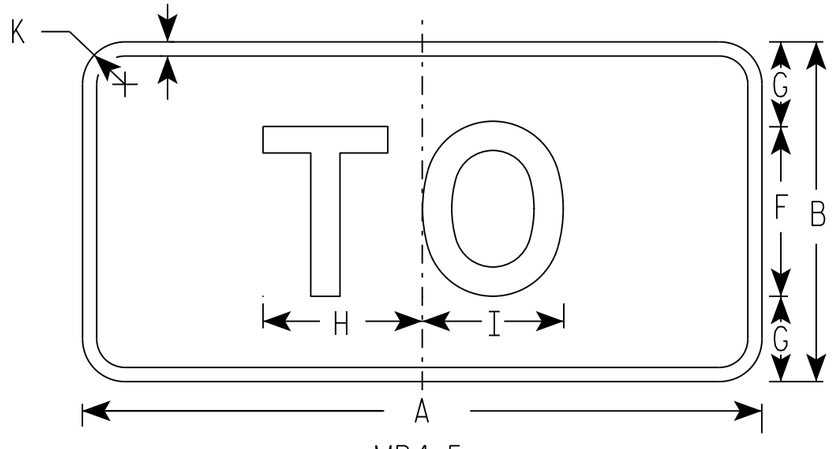
DATE 6/30/14 PLATE 14-1.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\M41.DGN PLOT DATE : 30-JUN-2014 15:38 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 4.708937:1.000000 WISDOT/CADDS SHEET 42



M4-5
MM4-5
MP4-5



MB4-5
MK4-5
MN4-5

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-5 Background - White
   Message - Black

   MB4-5 Background - Blue
   Message - White

   MK4-5 Background - Green
   Message - White

   MM4-5 Background - White
   Message - Green

   MN4-5 Background - Brown
   Message - White

   MP4-5 Background - White
   Message - Blue

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	5 3/8	5 1/4	1/2	1 1/2																2.00
3	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
4	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
5	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5

STANDARD SIGN
M4-5

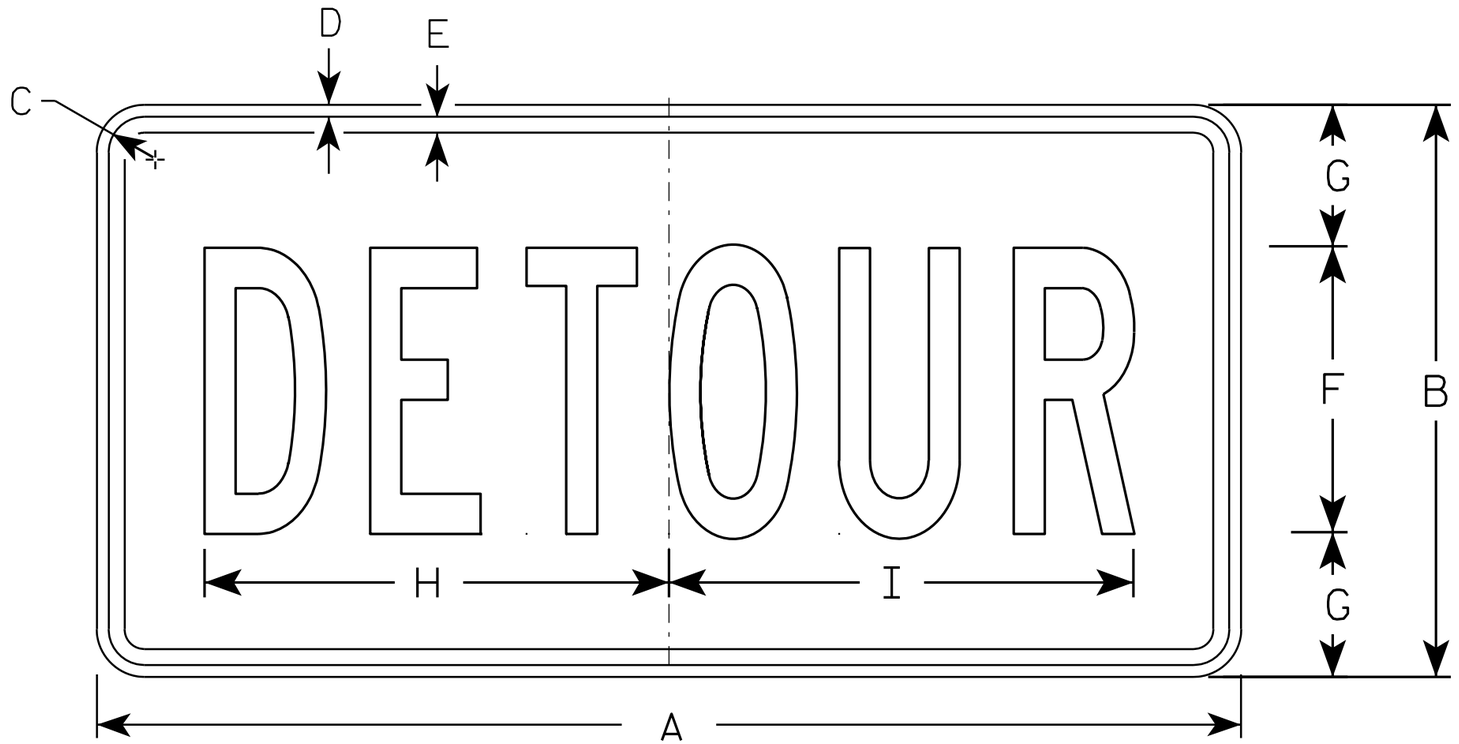
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 159 M4-5.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M45.DGN PLOT DATE : 01-DEC-2015 17:55 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 5.351066:1.000000



M4-8

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/8	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4																											
5																											

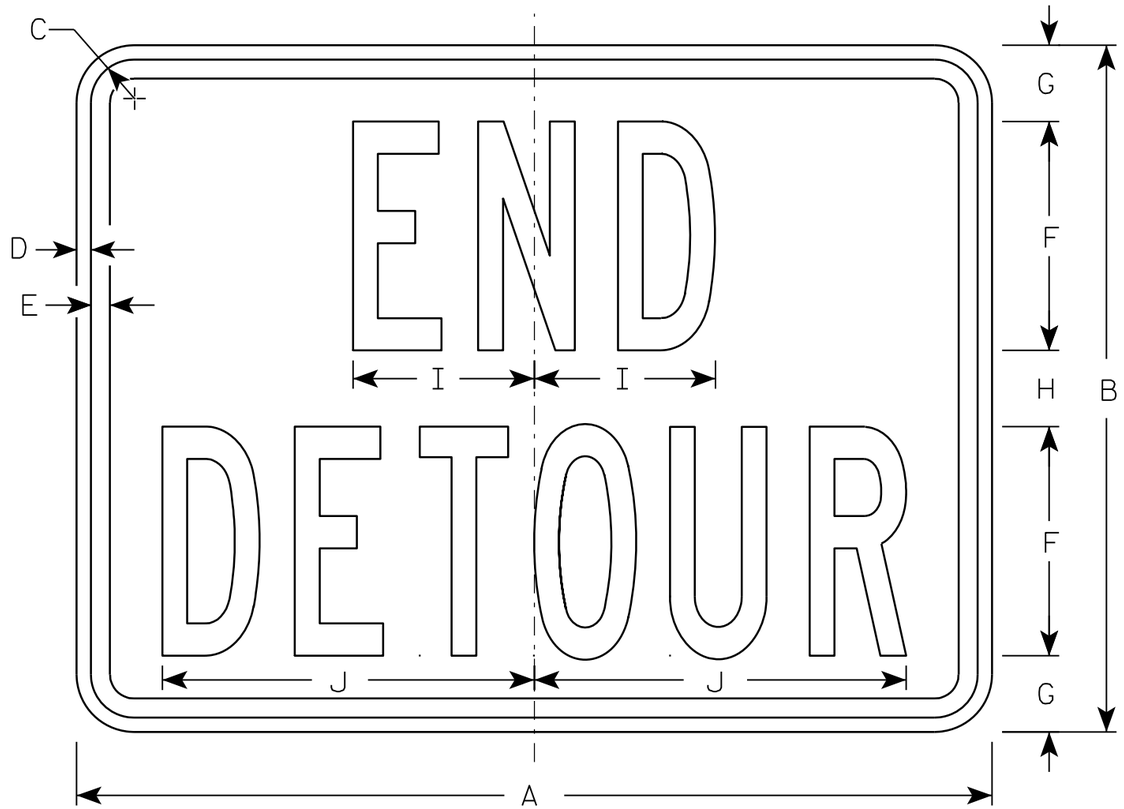
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-8.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 160	E



M4-8A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	18	1 1/8	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/8	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4																											
5																											

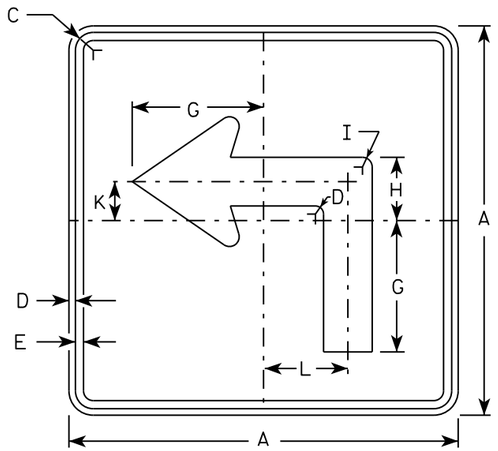
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

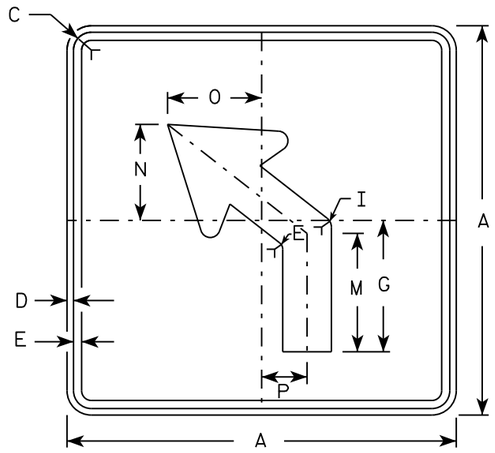
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-8A.2

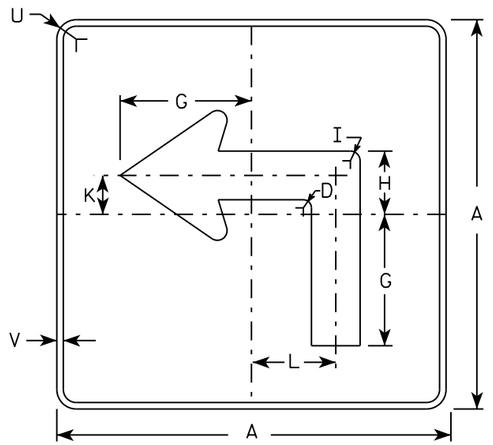
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 161	E



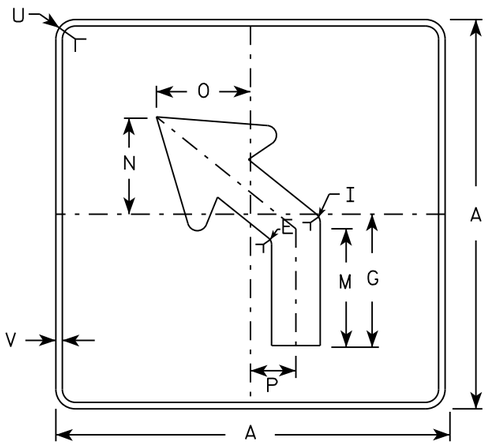
M5-1L
MM5-1L
MO5-1L
MP5-1L



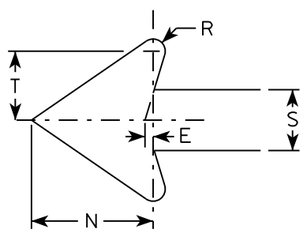
M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L



MB5-2L
MK5-2L
MN5-2L
MR5-2L



NOTES

1. Signs are Type II - Type H reflective except as shown
2. Color:
   Background - See note 4
   Message - See note 4
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. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White - Type H Reflective
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25

STANDARD SIGN
M5-1 & M5-2

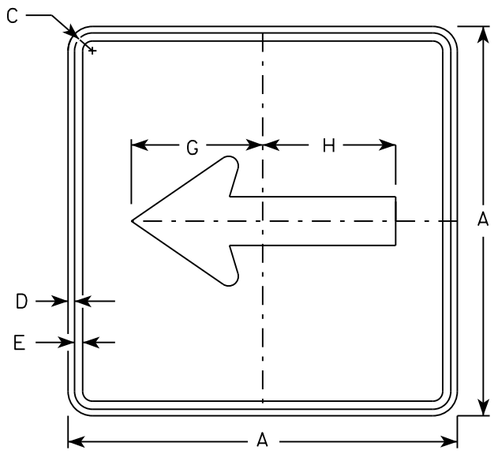
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

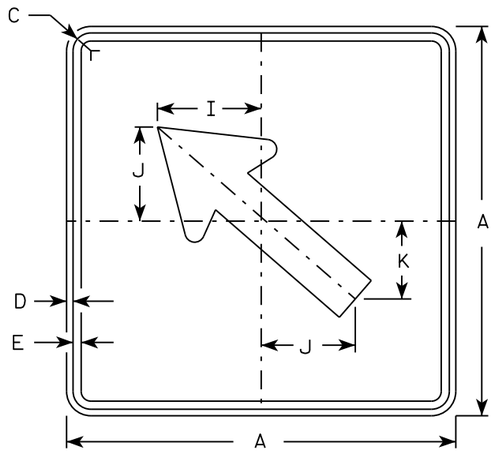
DATE 10/15/15 PLATE NO. M5-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M51.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



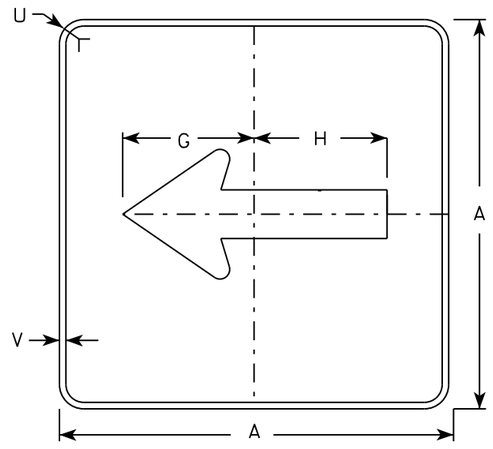
M6-1
MM6-1
MO6-1
MP6-1



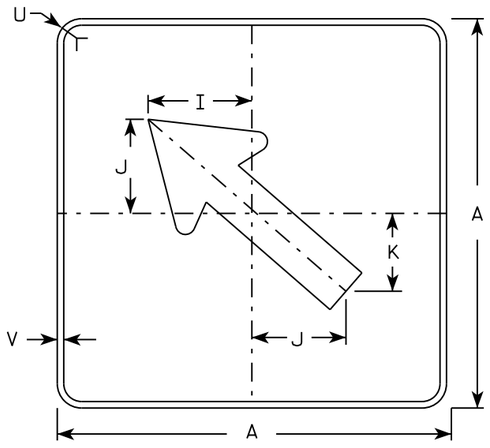
M6-2
MM6-2
MO6-2
MP6-2

NOTES

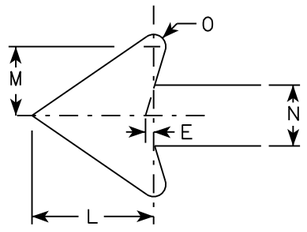
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow



MB6-1
MK6-1
MN6-1
MR6-1



MB6-2
MK6-2
MN6-2
MR6-2



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2						3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25

STANDARD SIGN
M6-1 & M6-2
SERIES

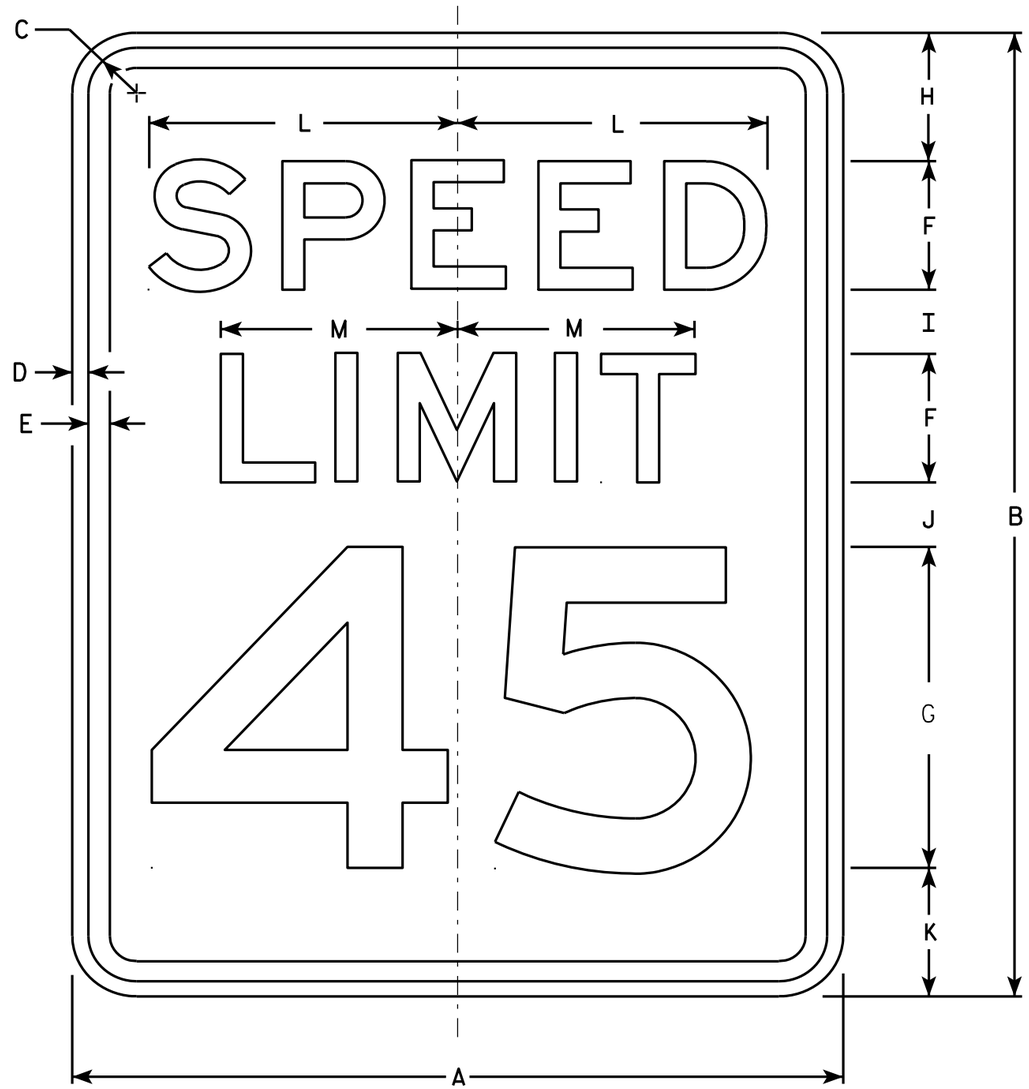
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 163 M6-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 01-DEC-2015 17:57 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

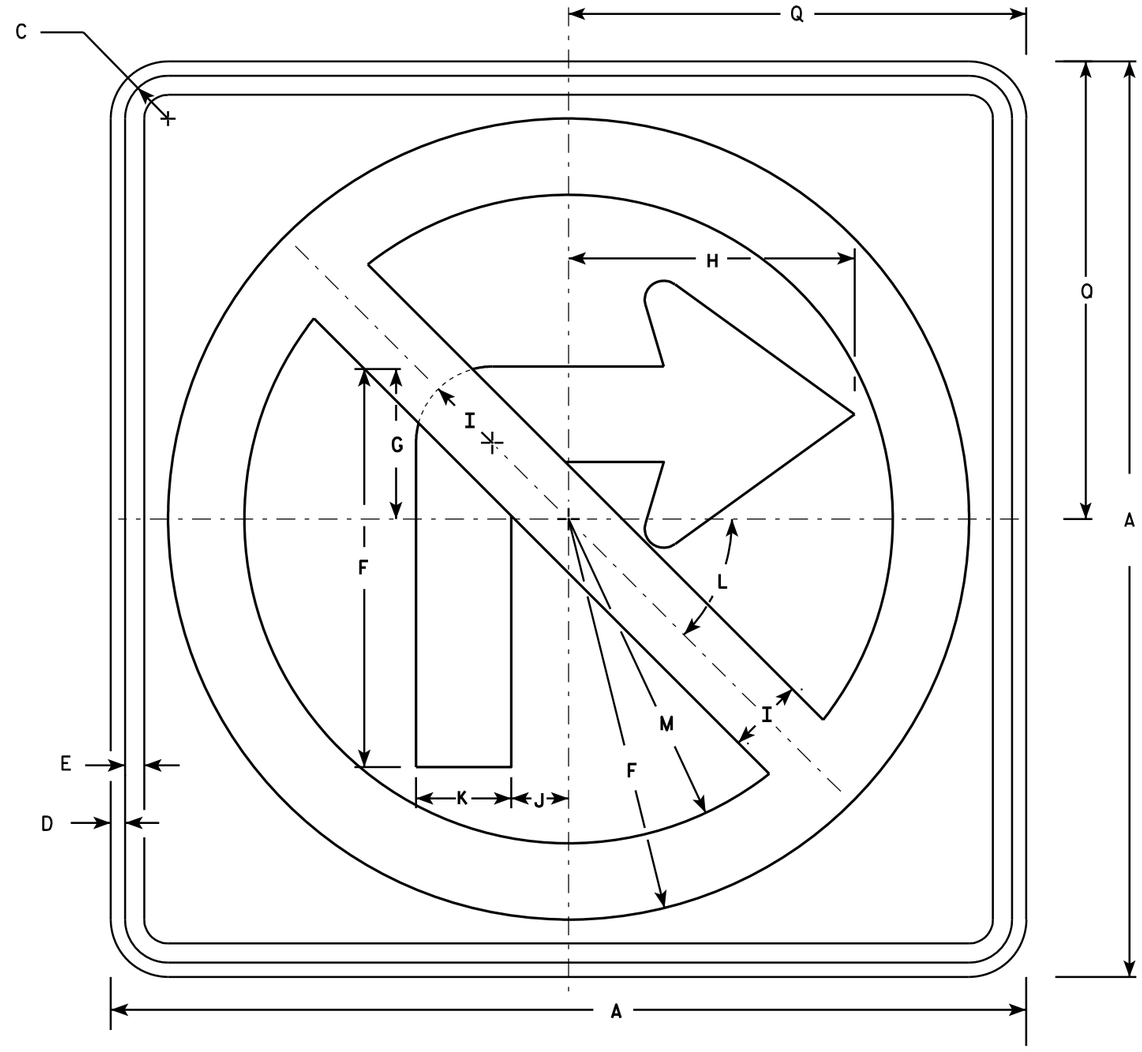
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

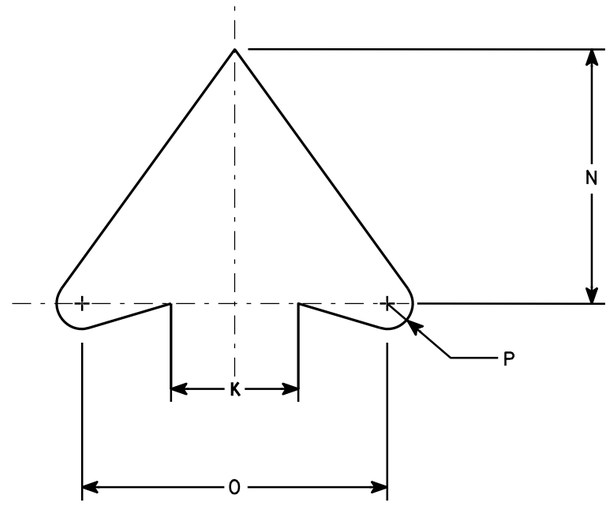
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 164 | E



R3-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
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. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45	8 1/2	5	6	1/2	12										4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2	12										4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4	18										9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1	24										16.0

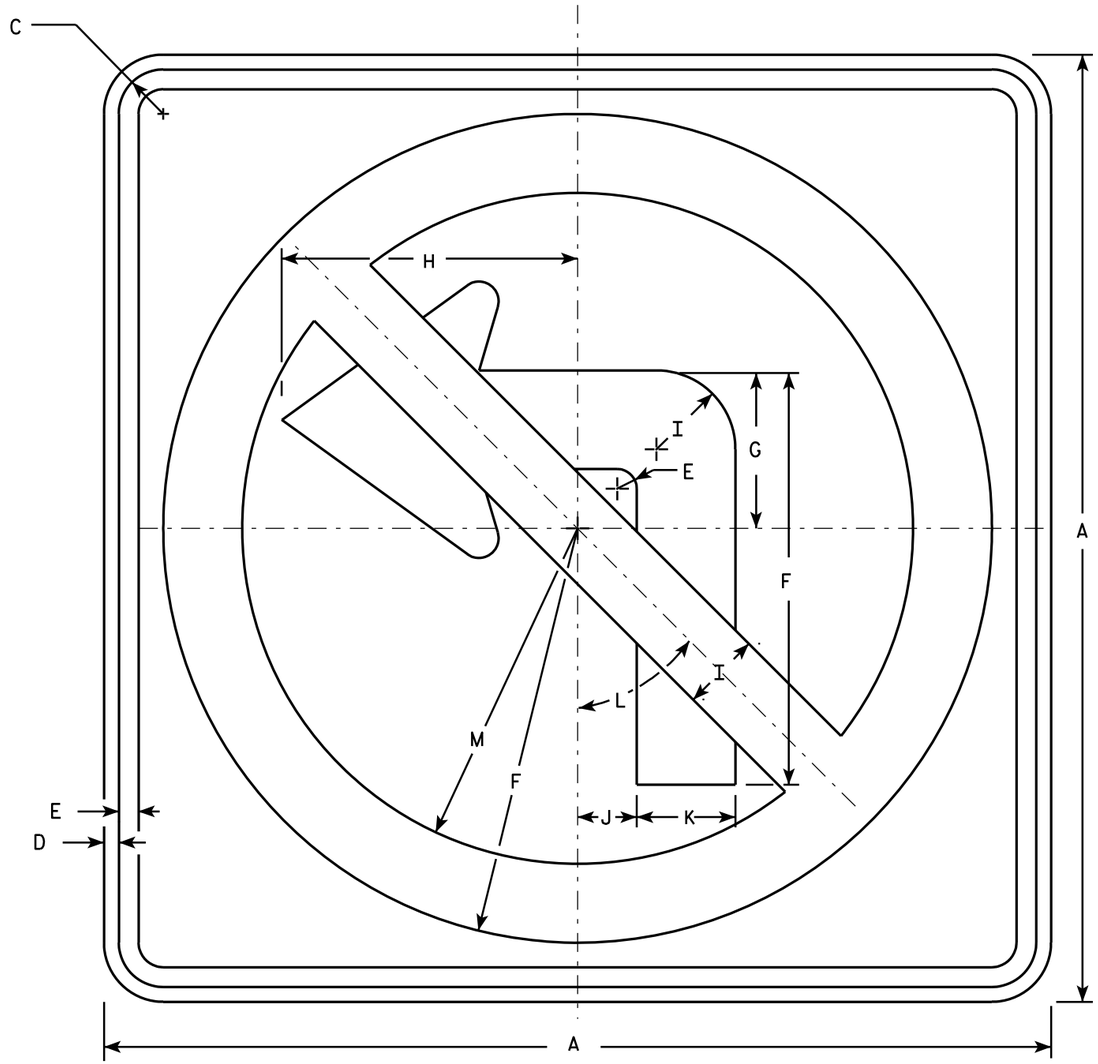
STANDARD SIGN
R3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-1.5

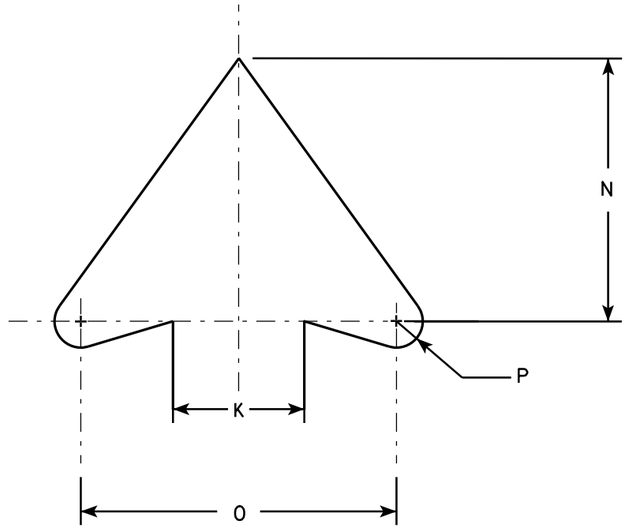
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 165	E



R3-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
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. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

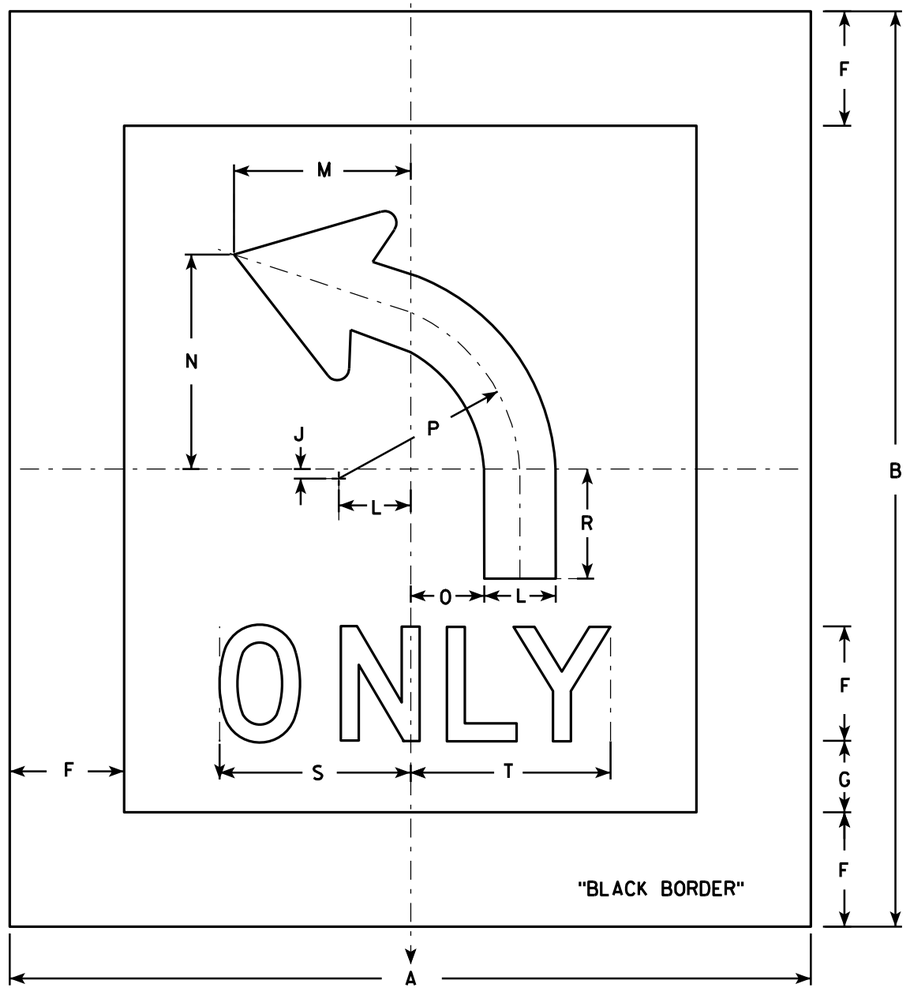
STANDARD SIGN
R3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-2.10

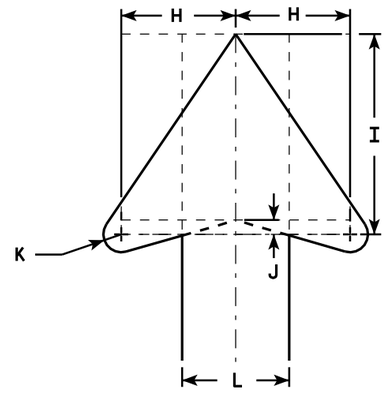
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 166	E



R3-5L

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood. When base material is metal, the corners shall be rounded.
5. R3-5R is the same as R3-5L except curved portion of arrow points right.
6. The 6" border is non-reflective black.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	42	48				6	3 3/4	4	7	1/2	5/8	3 3/4	9 1/4	11 1/4	3 7/8	9 1/2		5 3/4	10	10 1/2							1.26
2M	42	48				6	3 3/4	4	7	1/2	5/8	3 3/4	9 1/4	11 1/4	3 7/8	9 1/2		5 3/4	10	10 1/2							1.26
3																											
4																											
5																											

STANDARD SIGN
R3-5

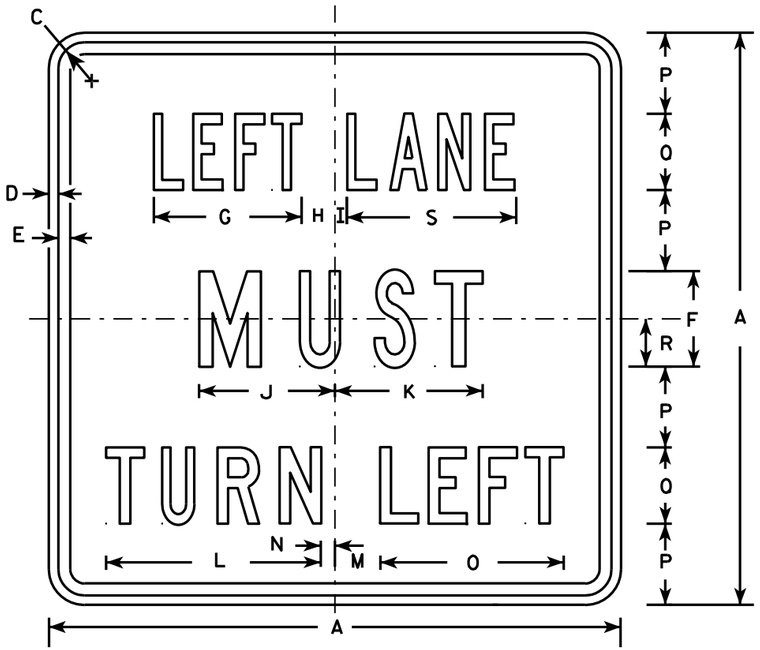
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

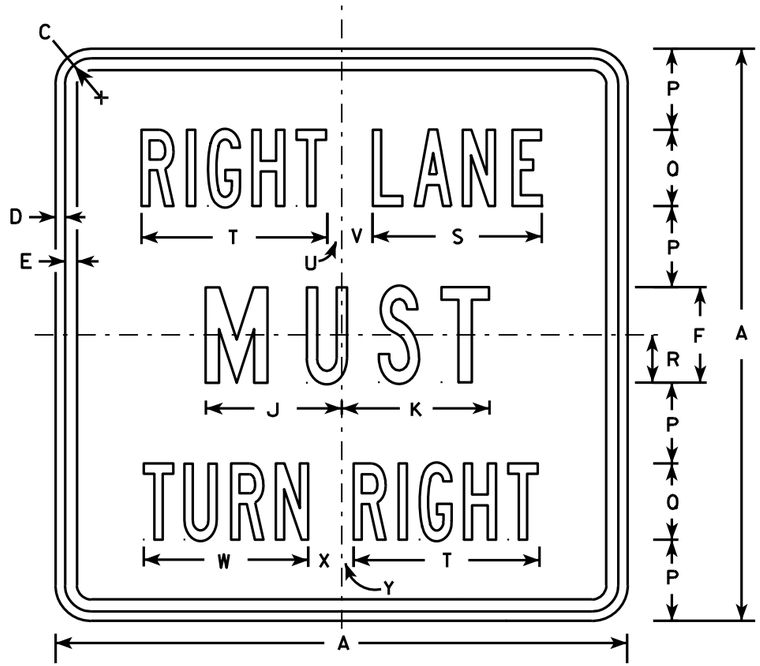
DATE 2/24/11 PLATE NO. R3-5.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 167 | E

7



R3-7L



R3-7R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - Line 1 is Series B.
   Line 2 is Series C.
   Line 3 on plate R3-7R is Series B and Series C on plate R3-7L.
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
2S	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
2M	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
3	36		1 5/8	5/8	3/4	6	9 5/8	2	1 1/8	8 3/4	9	13 1/2	3 7/8	1 1/2	12 1/2	5	5	3	10 5/8	12	7/8	2 1/4	10 5/8	2 1/8	1		9.00
4	48		2 1/4	3/4	1	8	13 1/2	2 3/8	1 1/2	11 1/2	11 7/8	17 3/4	3 5/8	2 1/2	16 3/8	6 1/2	7	4	14 3/8	16 7/8	5/8	3 1/4	15 1/8	2 3/4	1 1/8		16.00
5																											

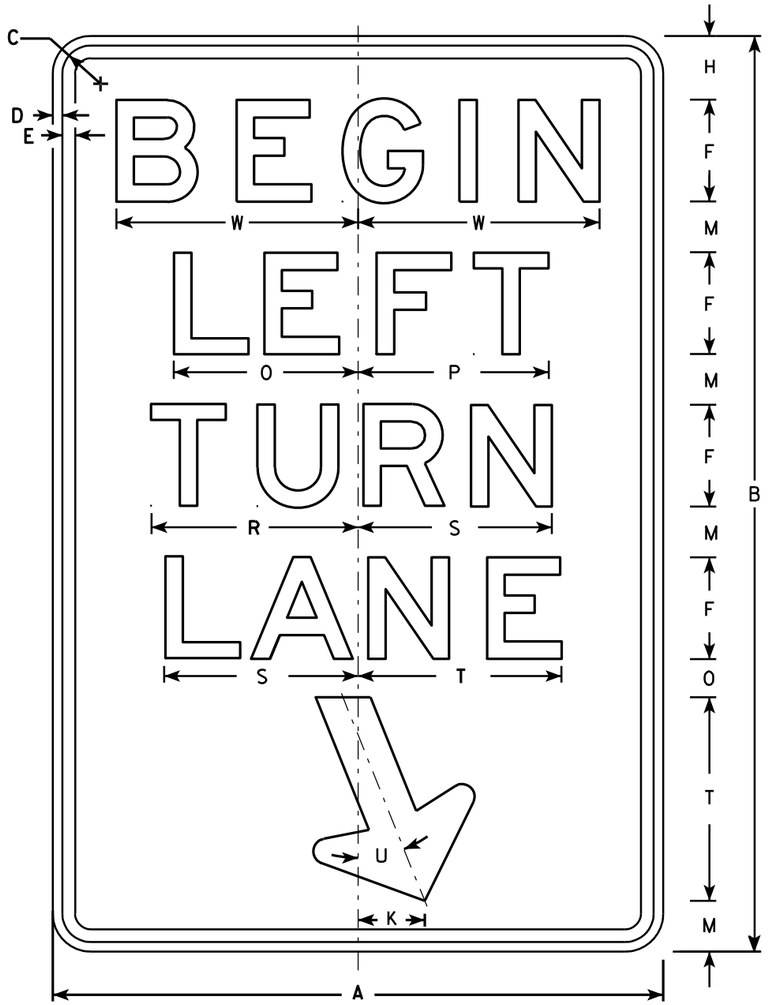
STANDARD SIGN
R3-7L & R3-7R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-7.3

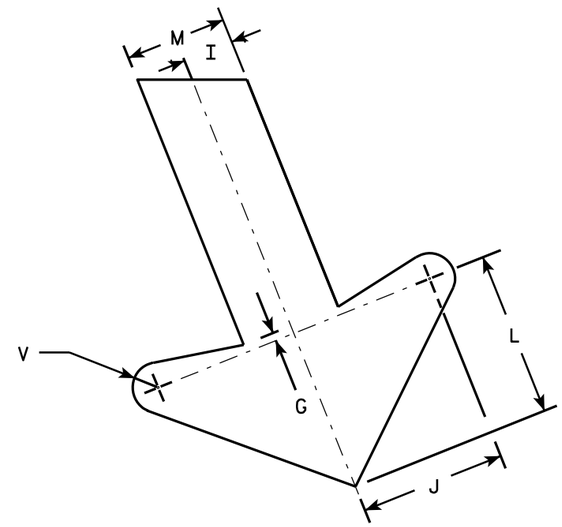
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 168 | E



R3-20L

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	10 7/8	11 1/4		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

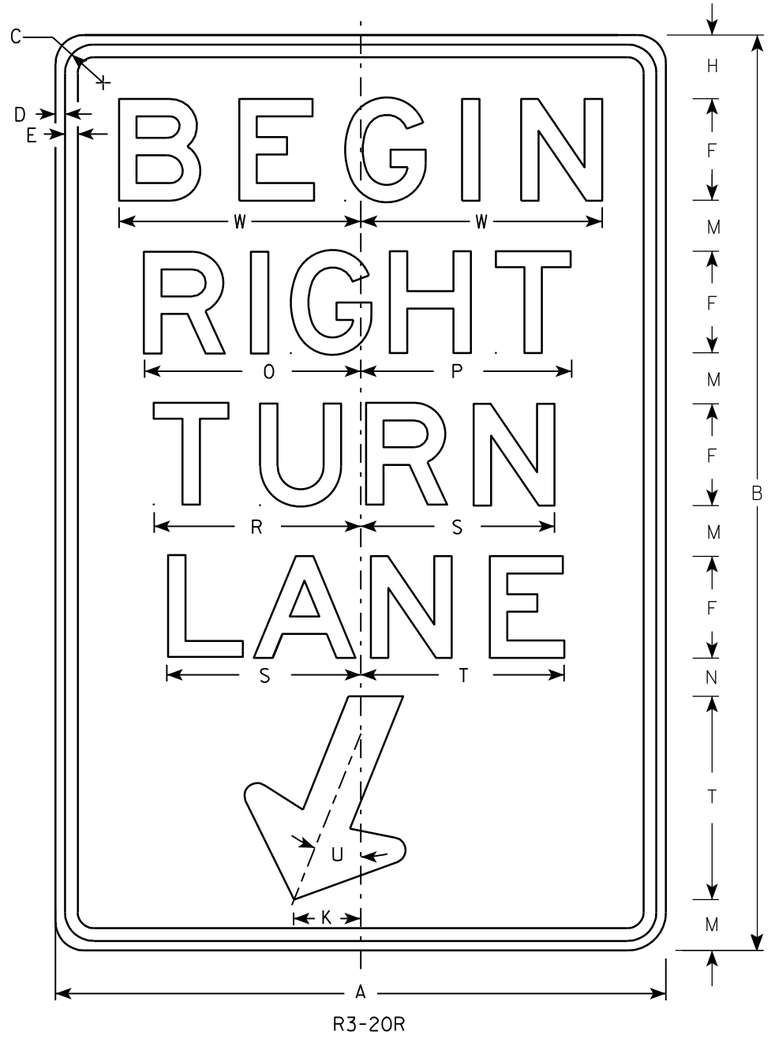
STANDARD SIGN
R3-20L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20L.7

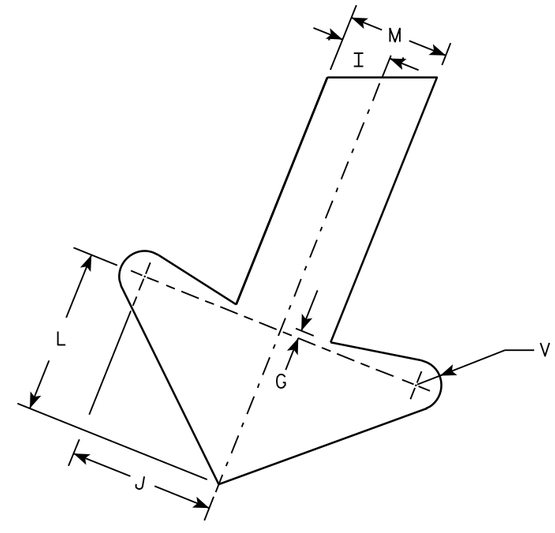
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 169 | E



R3-20R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	8 1/2	8 1/4		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	8 1/2	8 1/4		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	12 3/4	12 1/2		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

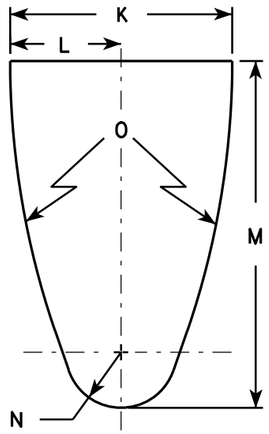
STANDARD SIGN
R3-20R

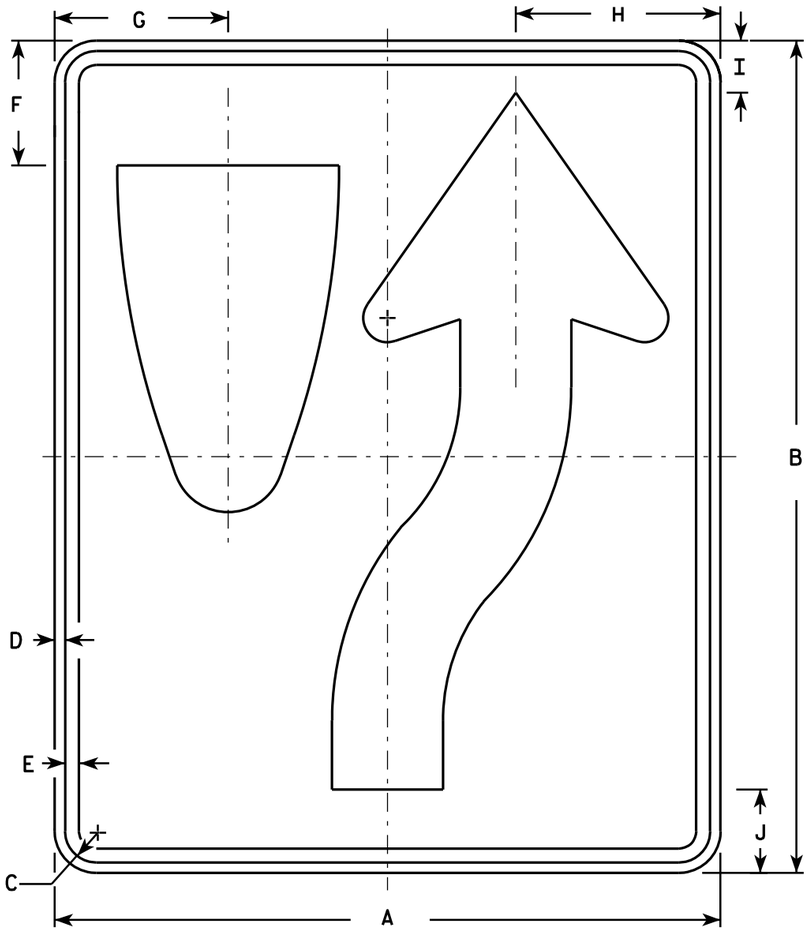
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20R.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 170 | E

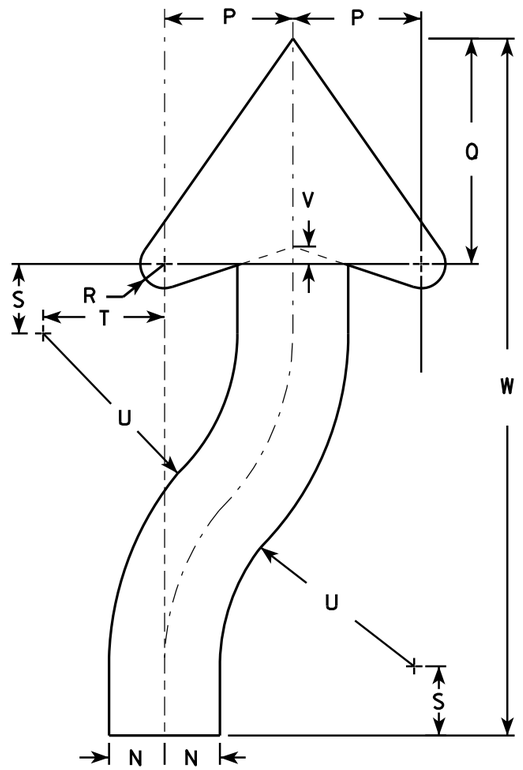




R4-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
4. R4-8 is the same as R4-7 except Legend is reversed.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
5	48	60	2 1/4	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0

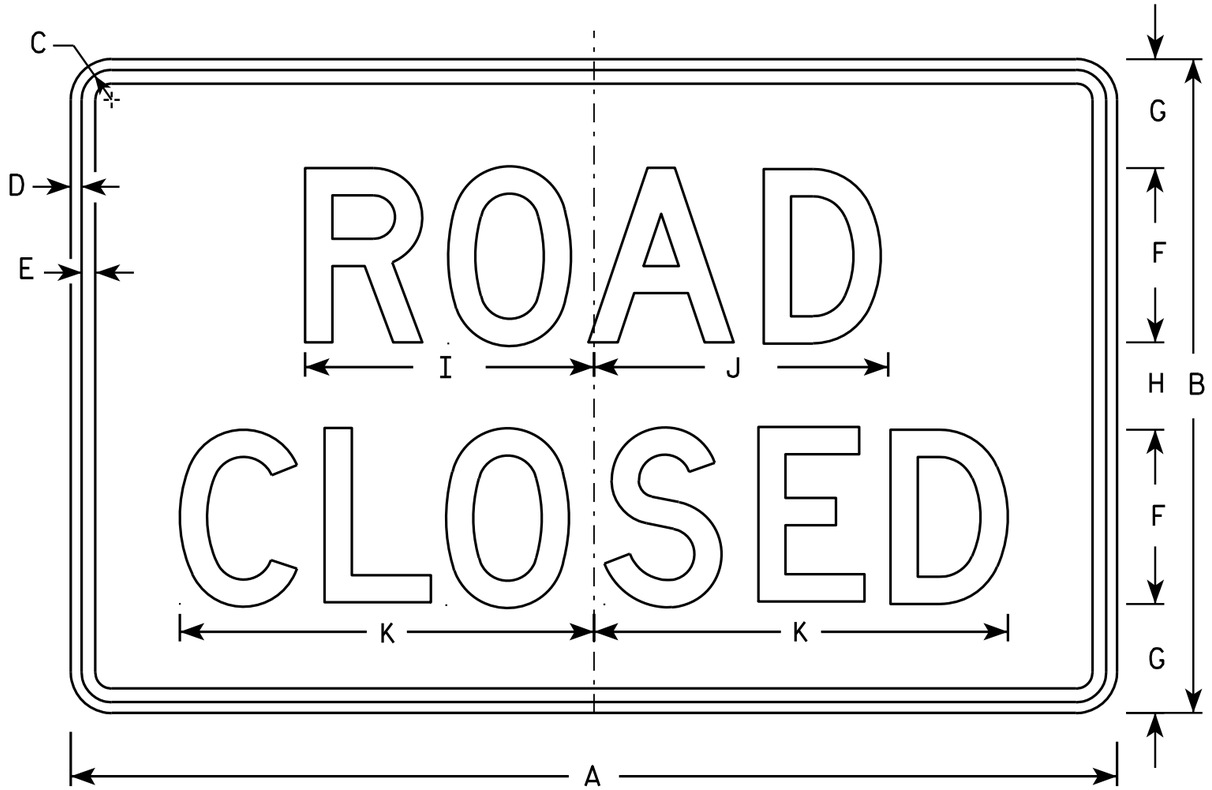
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-7.8

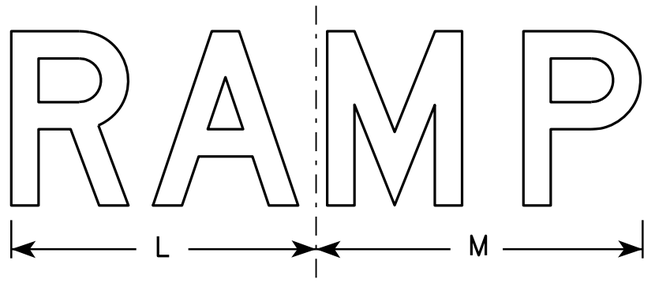
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 171	E



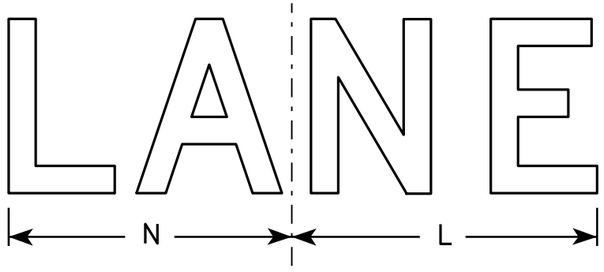
R11-2

NOTES

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



R11-2R



R11-2L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	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

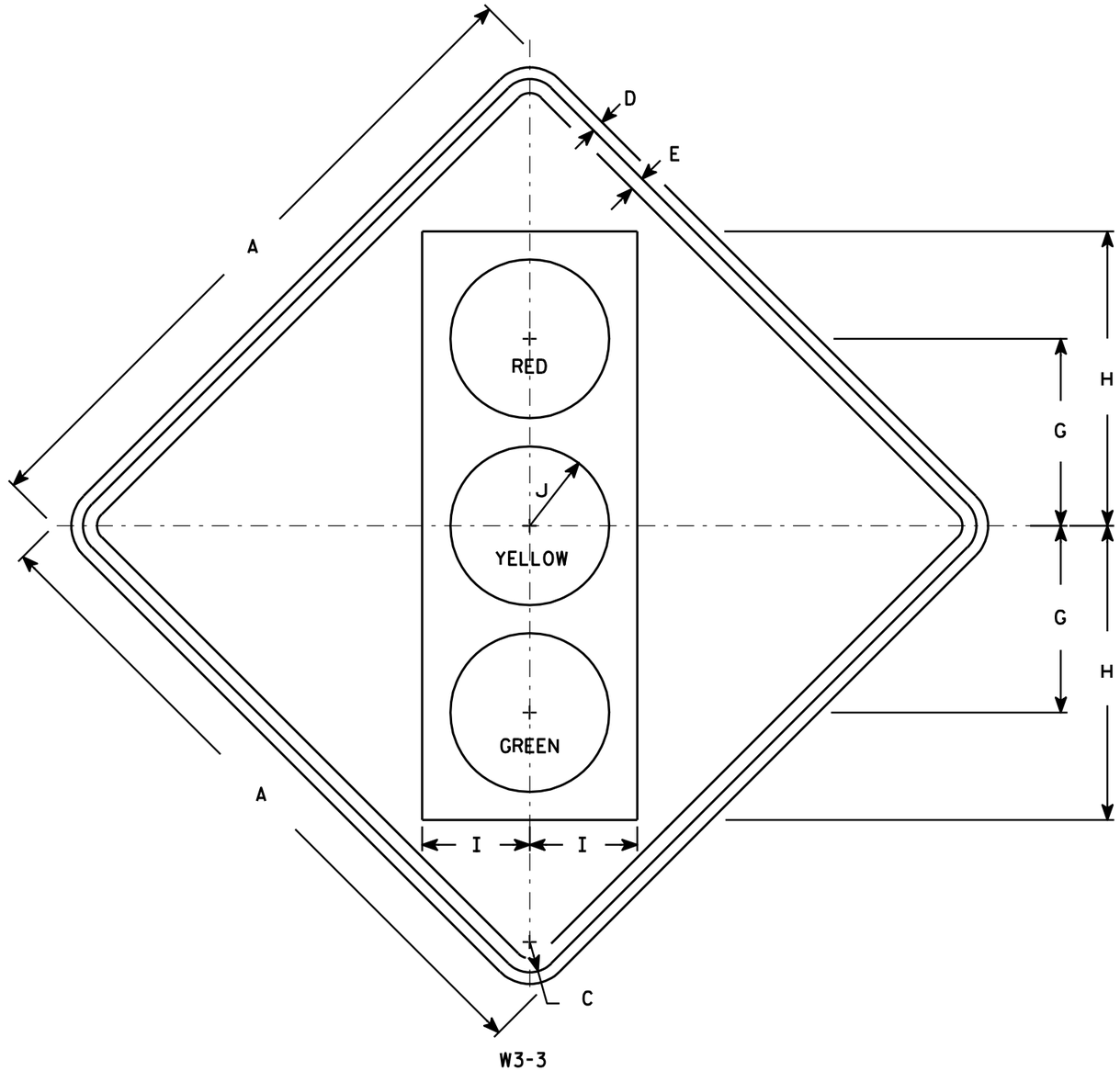
STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 172 | E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - See Note 4
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. Symbol and border are non-reflective black.
   Top circle - Type H Reflectorized Red
   Center circle - Same as background
   Bottom circle - Type H Reflectorized Green

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8		8 3/4	13 3/4	5	3 3/4																	6.25
2S	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
2M	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
3	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
4	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
5	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0

STANDARD SIGN
W3-3

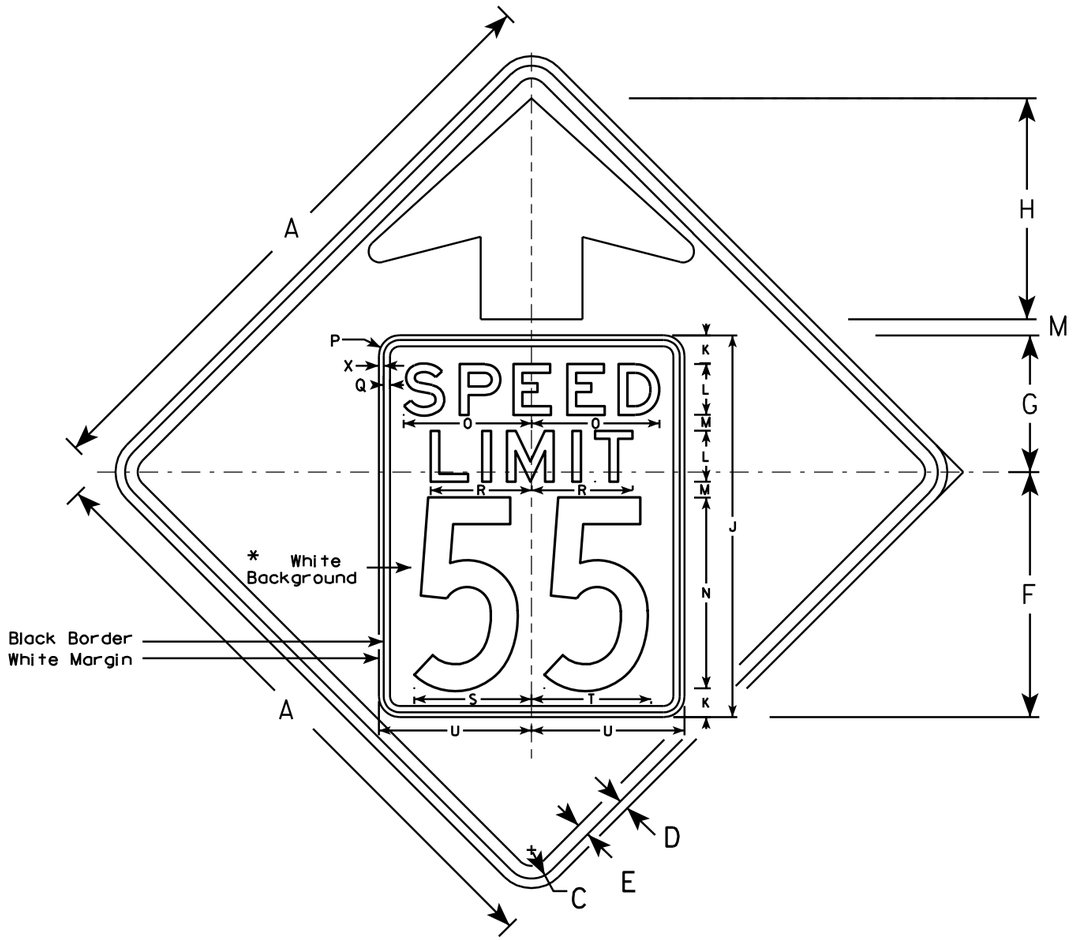
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-3.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 173 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W33.DGN PLOT DATE : 07-JUN-2010 13:07 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 7.448805:1.000000
WISDOT/CADDS SHEET 42

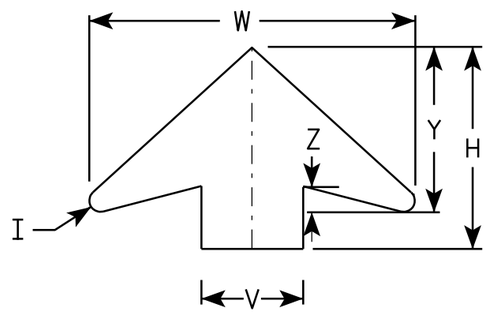


W3-5

NOTES

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

*Speed Limit Sign shall have a White Background



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
2M	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
3	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
4	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0

STANDARD SIGN
W3-5

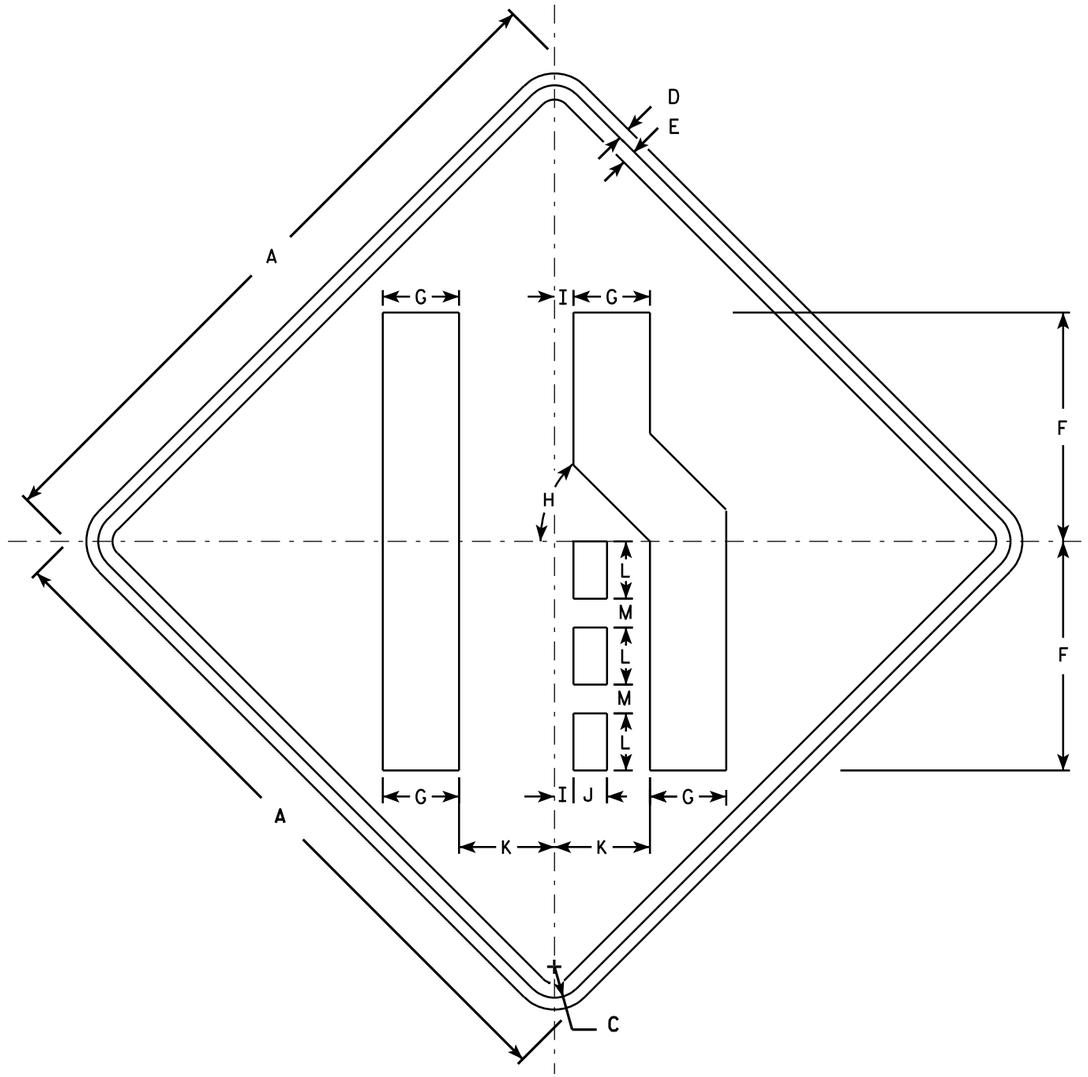
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:

SHEET NO: 174 E



W4-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W4-2L is the same as W4-2R except the symbol is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	10	3 3/8	45°	7/8	1 1/2	4 1/4	2 1/2	1 1/4														6.25
2S	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2M	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
3	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

STANDARD SIGN
W4-2

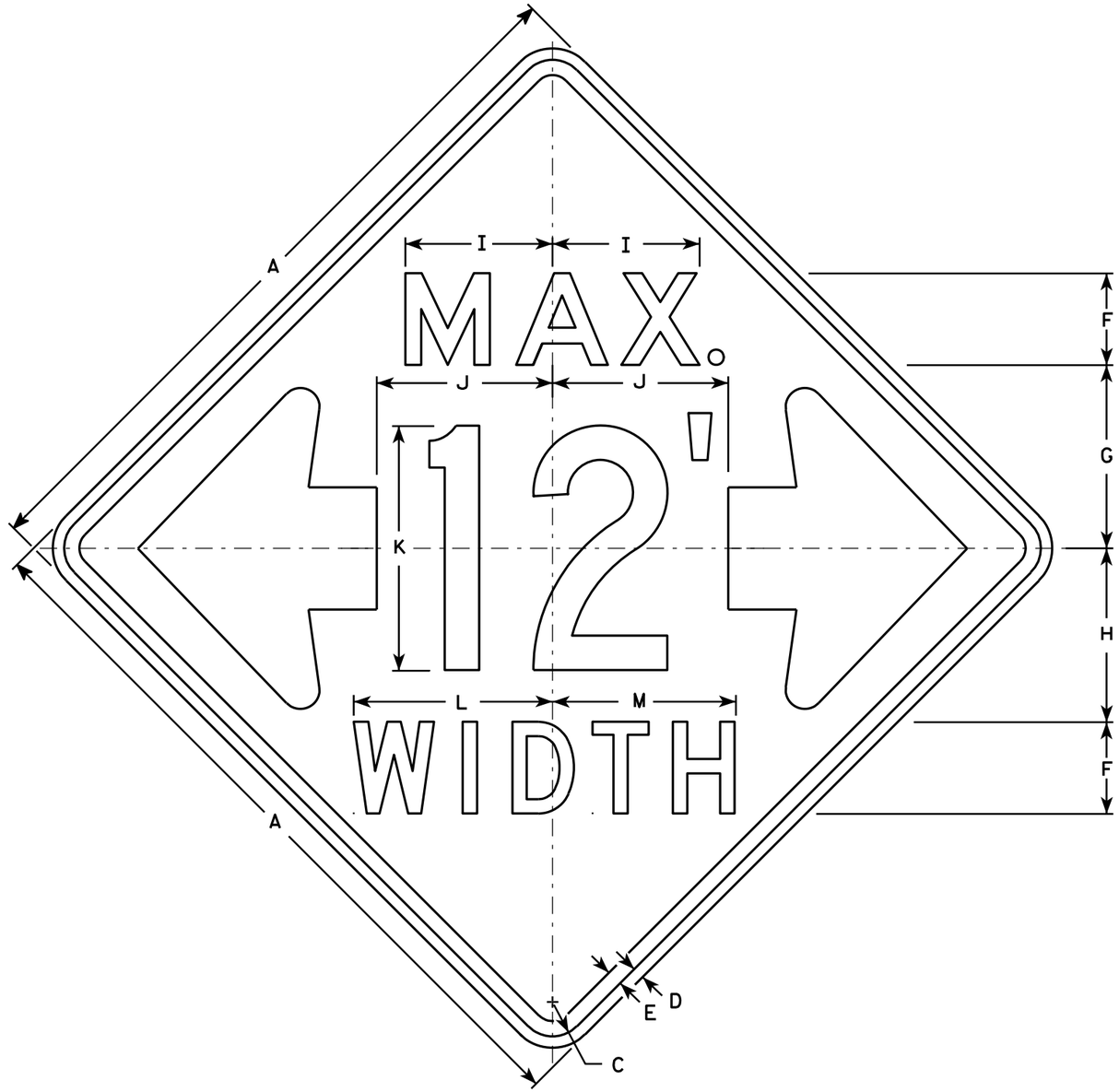
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/12/13 PLATE NO. W4-2.14

PROJECT NO:

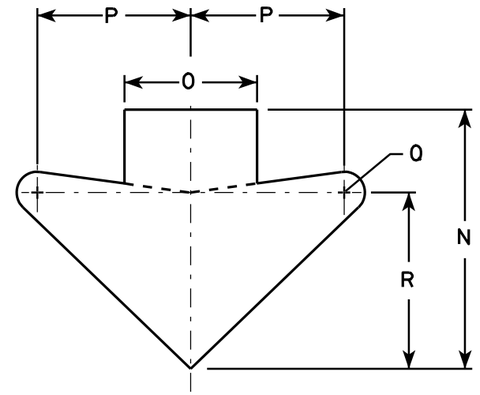
SHEET NO: 175 E



W12-52

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. 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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48		2 1/4	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	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 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
3																											
4																											
5																											

STANDARD SIGN
W12-52

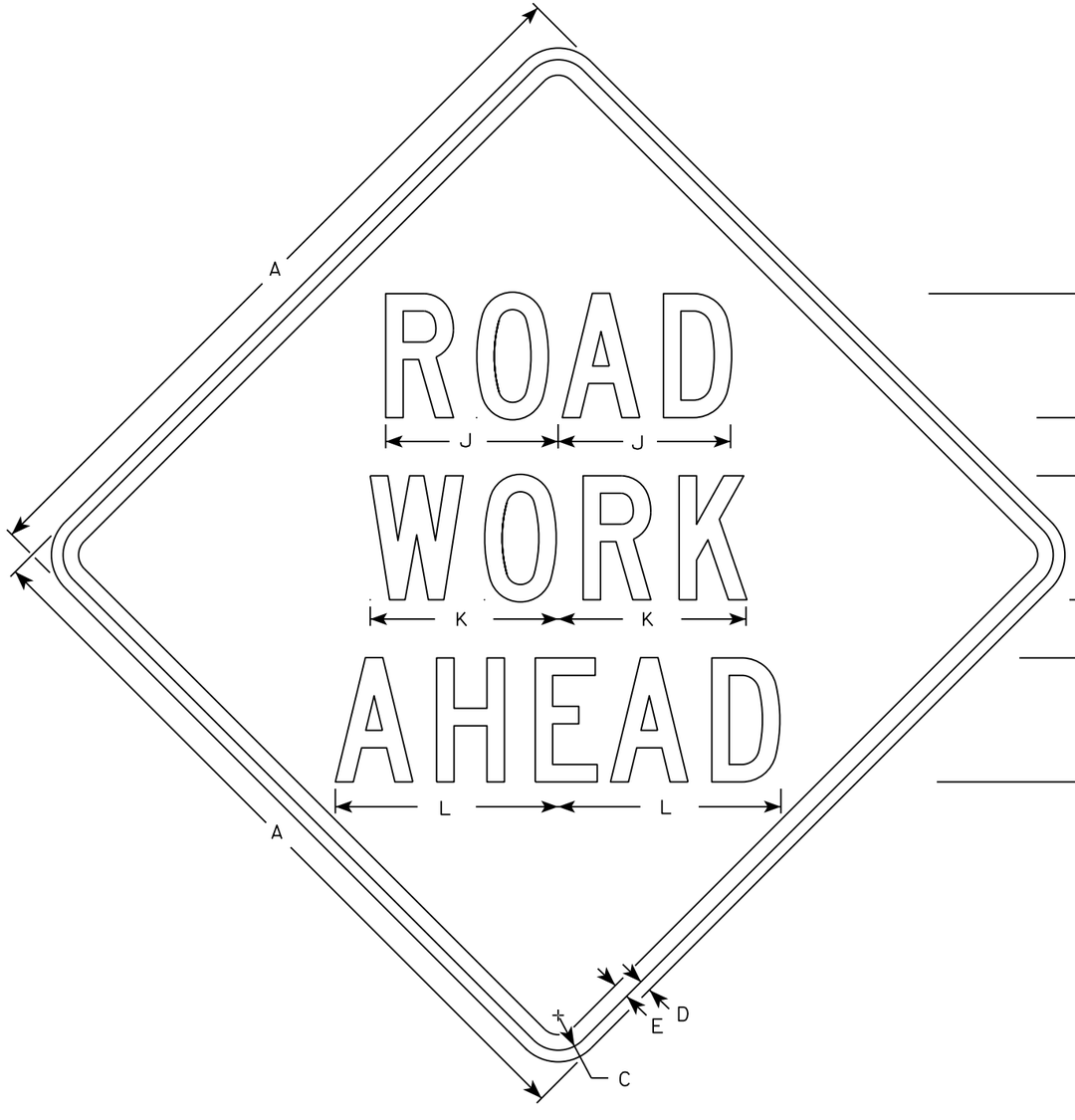
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

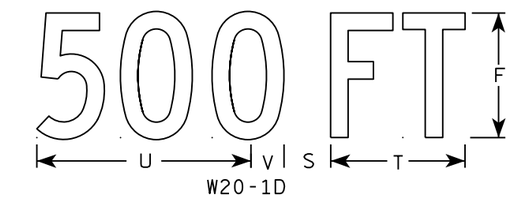
DATE 3/16/11 PLATE NO. W12-52.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 176 | E

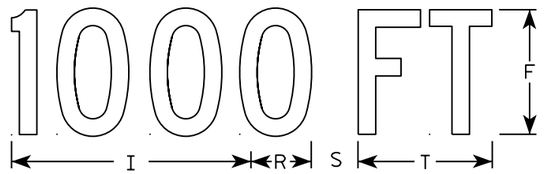
FILE NAME : C:\Users\PROJECTS\tr_stdplate\W1252.DGN PLOT DATE : 16-MAR-2011 14:45 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.137199:1.000000
WISDOT/CADDS SHEET 42



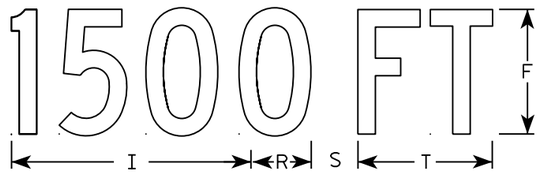
W20-1A



W20-1D



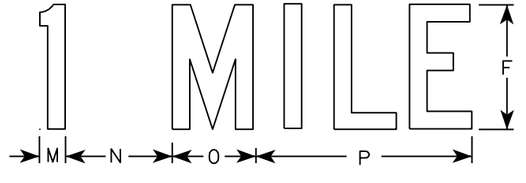
W20-1C



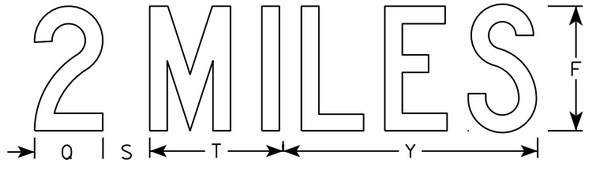
W20-1B



W20-1G



W20-1F



W20-1E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 3/8	1/2	5/8	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9		2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

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

WISCONSIN DEPT OF TRANSPORTATION

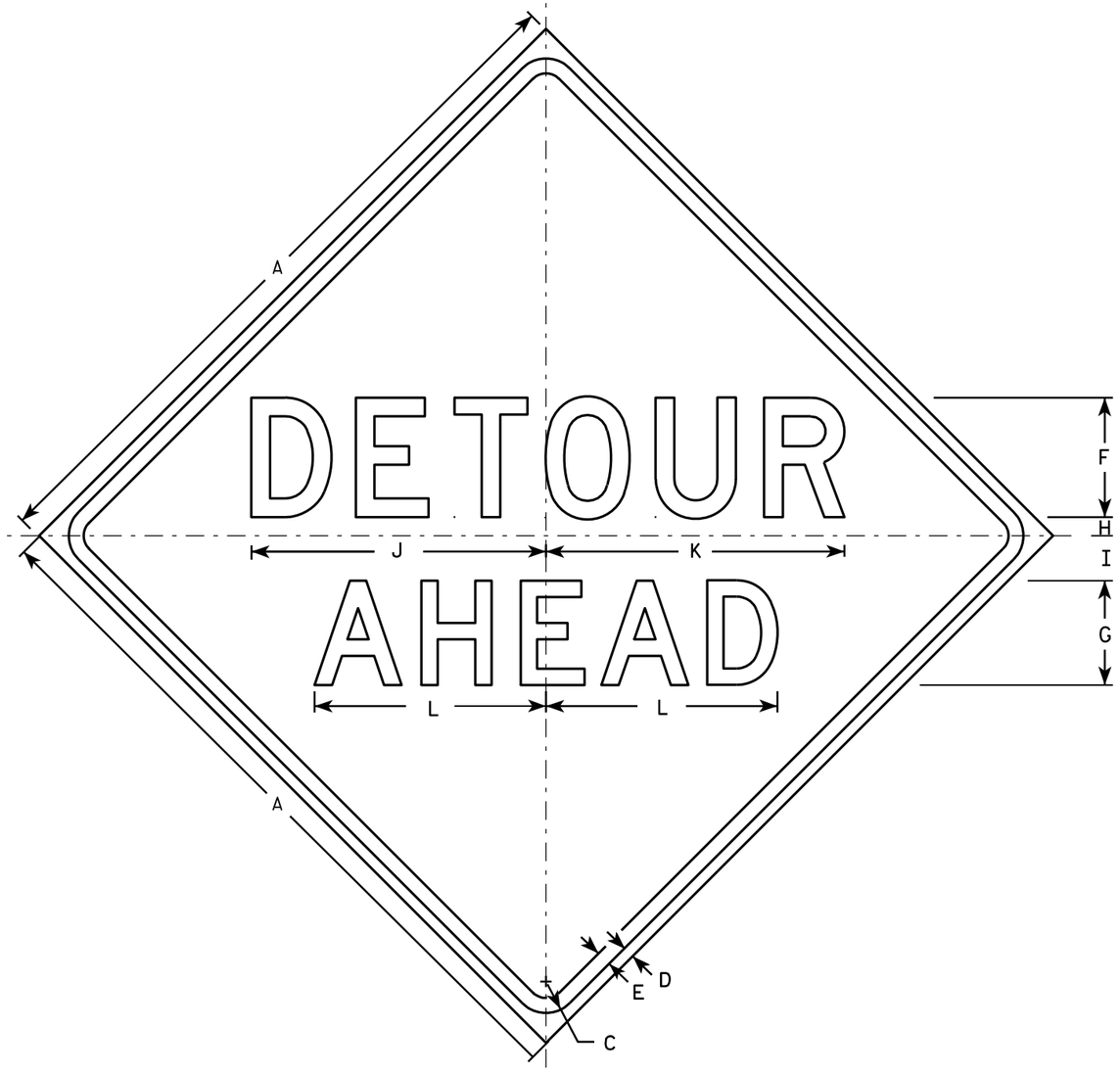
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/07/15 PLATE NO. W20-1.10

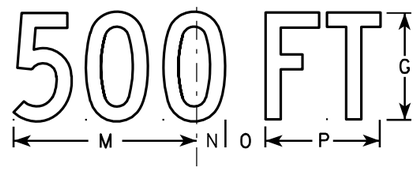
PROJECT NO:

SHEET NO: E

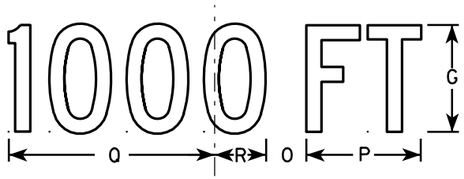
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 01-DEC-2015 18:24 PLOT BY : $$ plotuser $$



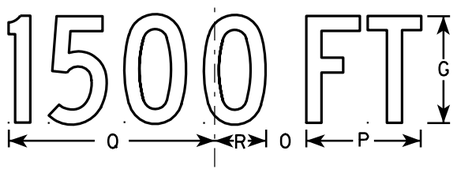
W20-2A



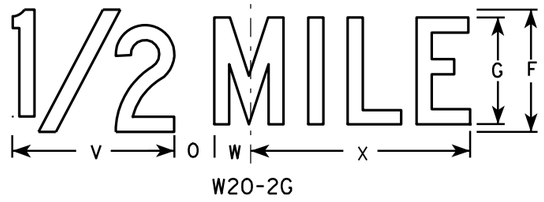
W20-2D



W20-2C



W20-2B



W20-2G



W20-2F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. 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. Line 1 is Series D.
   Line 2 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
2M	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
3	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
4	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
5	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0

STANDARD SIGN
W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

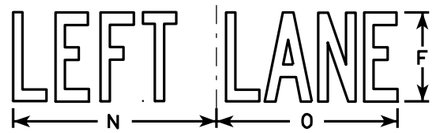
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-2.6

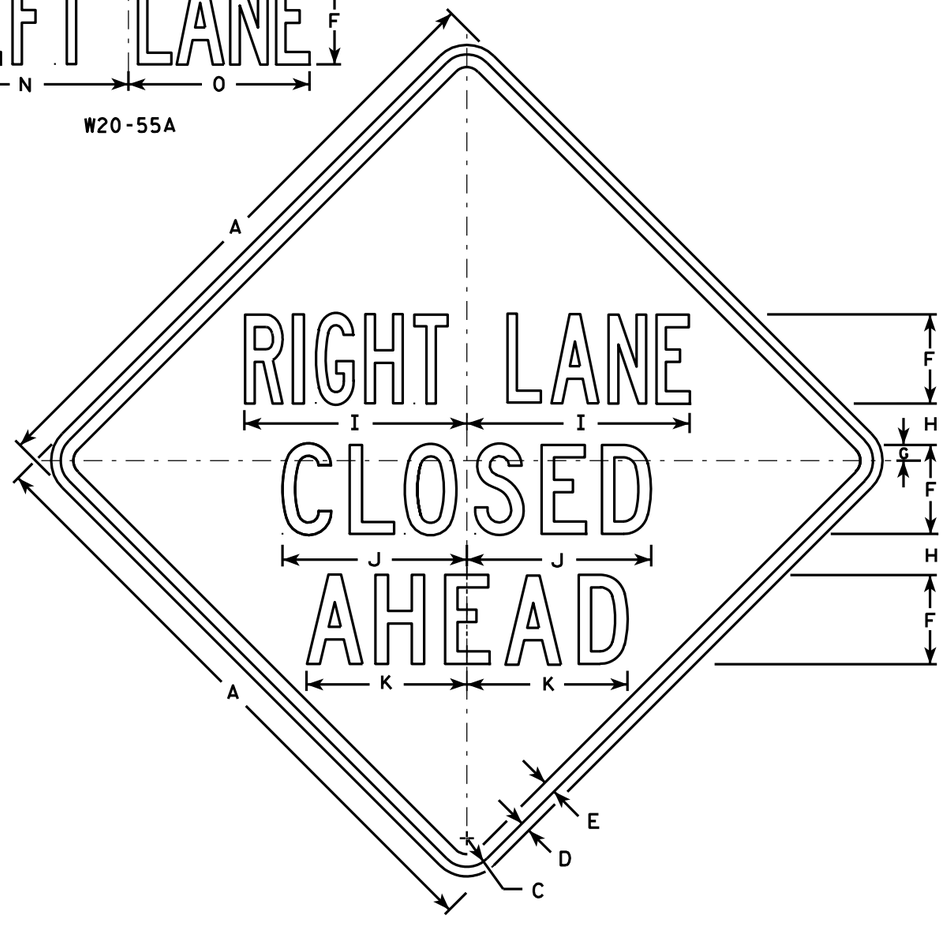
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 178	E



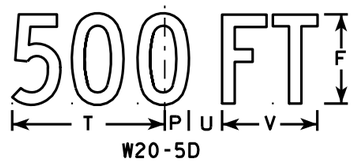
W20-56A



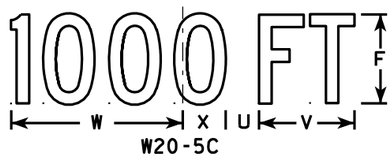
W20-55A



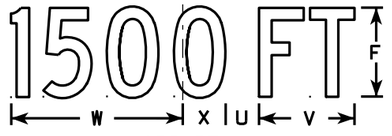
W20-5A



W20-5D



W20-5C



W20-5B



W20-5G



W20-5F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. 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.
   All other copy is Series C.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	6	1 5/8	5/8	3/4	5	1/8	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 1/8	5 5/8	10 1/8	2 1/2	1 3/4	8	9.0
2S	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
2M	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
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 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
4	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
5	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

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

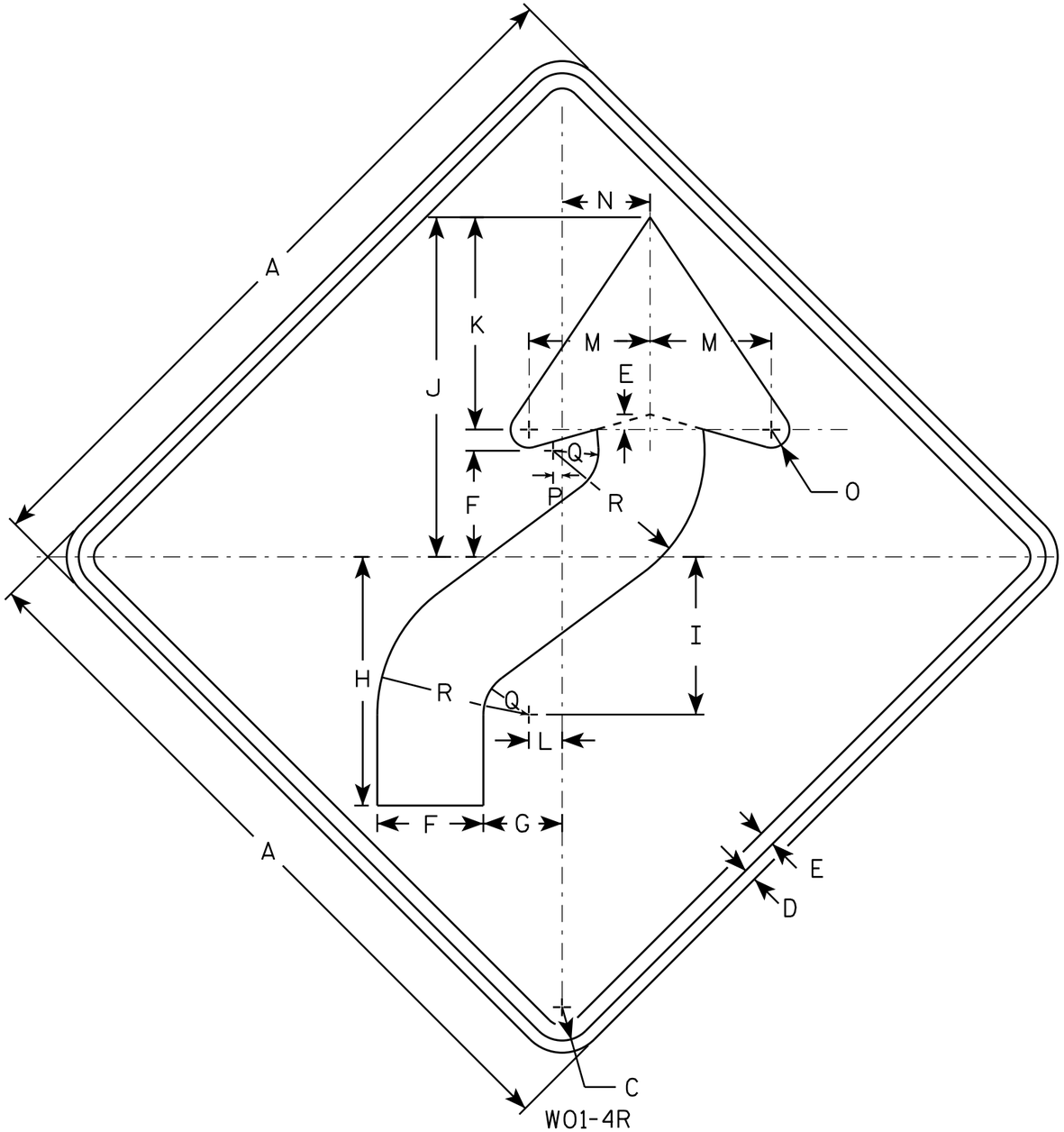
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 179 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W205.DGN PLOT DATE : 18-MAR-2011 12:15 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 11.918087:1.000000
WISDOT/CADDS SHEET 42



W01-4R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W01-4L is the same as W01-4R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
2S	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
2M	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
3	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
4	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
5	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

STANDARD SIGN
W01-4

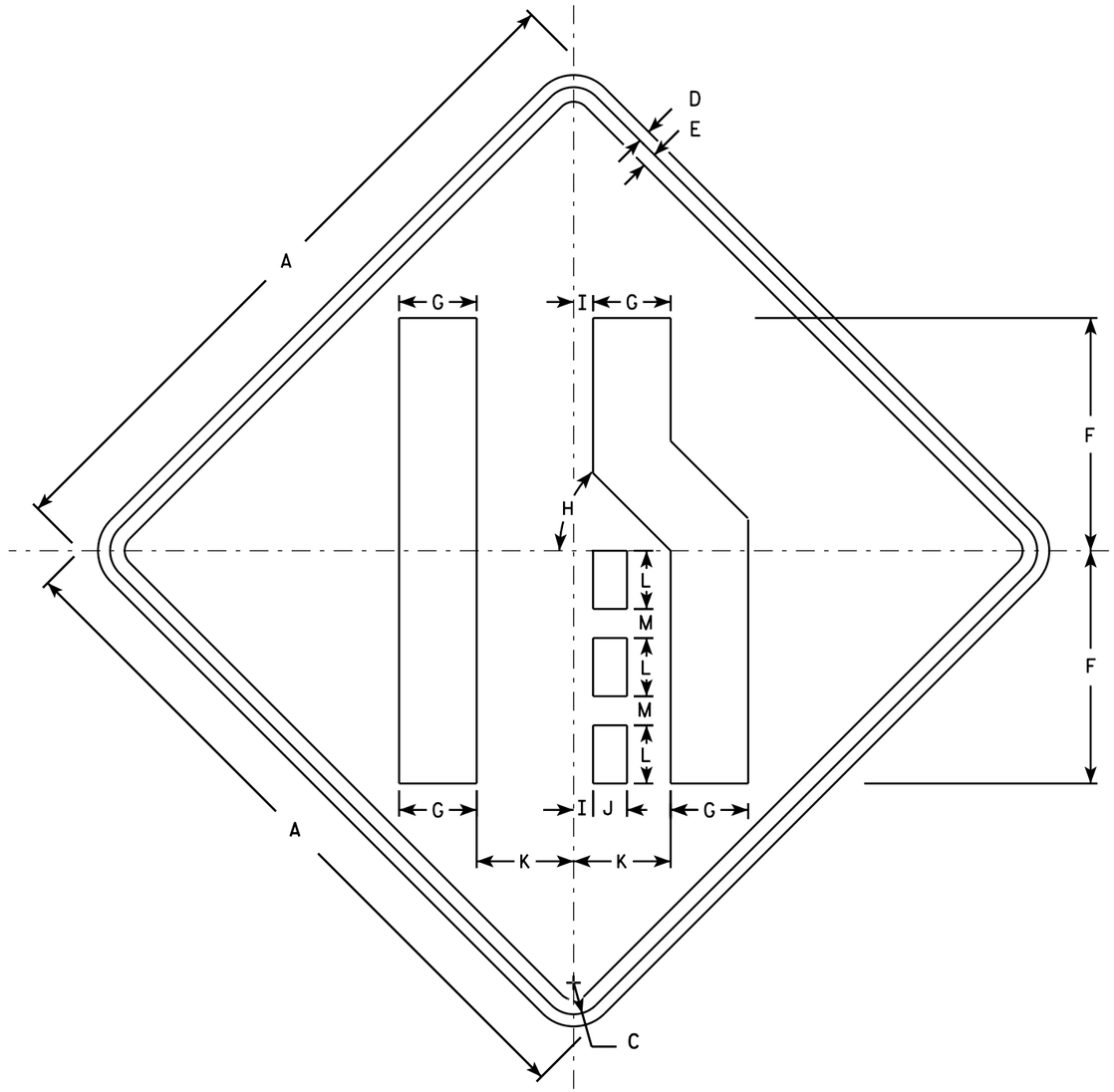
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO W01-4.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W014.DGN PLOT DATE : 28-FEB-2014 11:35 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 6.755110:1.000000
WISDOT/CADDS SHEET 42



W04-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W04-2L is the same as W04-2R except the symbol is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2S	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
2M	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
3	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

STANDARD SIGN
W04-2

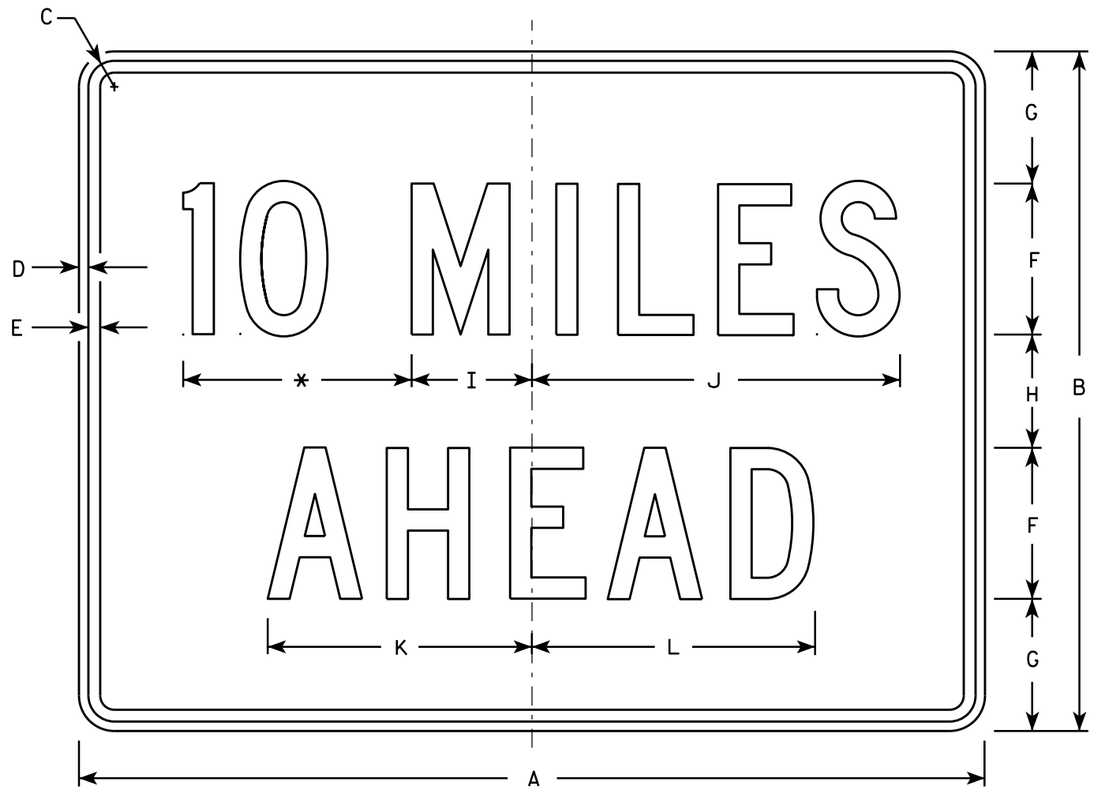
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

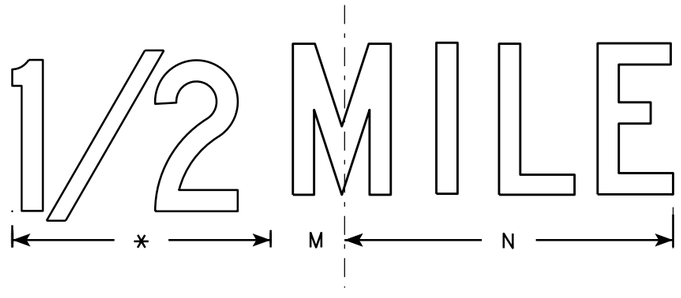
DATE 11/20/13 PLATE 181 W04-2.1

PROJECT NO:

SHEET NO: E



W057-52



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. 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.

* See note 5

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	24	1 1/8	3/8	1/2	6	4 1/2	3	4 3/4	14 5/8	10 5/8	11 3/8	2	13													6.0
2S	48	36	1 3/8	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 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	17 3/8													12.0
3	48	36	1 3/8	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 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	17 3/8													12.0
5	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	17 3/8													12.0

STANDARD SIGN
W057-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE W057-52.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W05752.DGN PLOT DATE : 28-FEB-2014 11:42 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 8.026599:1.000000 WISDOT/CADDS SHEET 42

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)		Mass Ordinate
		Cut	Salvaged/Unusable Pavement Material	Fill	Cut	Salvaged/Unusable Pavement Material	Fill	Cut 1.00	Expanded Fill 1.25	
627+82	0	0.0	0.0	0.00	0	0	0.0	0	0.0	0
628+47	65	0.0	0.0	0.00	0	0	0.0	0	0.0	0
629+00	53	0.0	0.0	0.00	0	0	0.0	0	0.0	0
630+01	101	0.0	0.0	2.07	0	0	3.9	0	4.8	-5
631+00	99	0.0	0.0	1.32	0	0	6.2	0	12.6	-13
632+00	100	0.0	0.0	0.85	0	0	4.0	0	17.6	-18
632+95	95	0.0	0.0	2.59	0	0	6.1	0	25.2	-25
633+00	5	0.0	0.0	2.59	0	0	0.5	0	25.8	-26
634+00	100	0.0	0.0	0.92	0	0	6.5	0	33.9	-34
635+00	100	0.0	0.0	1.87	0	0	5.2	0	40.4	-40
636+00	100	0.0	0.0	1.05	0	0	5.4	0	47.1	-47
637+00	100	0.0	0.0	0.50	0	0	2.9	0	50.7	-51
638+00	100	0.0	0.0	1.28	0	0	3.3	0	54.8	-55
639+00	100	0.0	0.0	0.69	0	0	3.6	0	59.4	-59
639+93	93	0.0	0.0	2.60	0	0	5.7	0	66.5	-66
640+00	7	0.0	0.0	2.60	0	0	0.7	0	67.3	-67
641+00	100	0.0	0.0	1.69	0	0	7.9	0	77.3	-77
641+94	94	0.0	0.0	0.00	0	0	2.9	0	80.9	-81
642+00	6	0.0	0.0	0.00	0	0	0.0	0	80.9	-81
643+00	100	0.0	0.0	0.73	0	0	1.4	0	82.6	-83
644+00	100	0.0	0.0	2.57	0	0	6.1	0	90.3	-90
645+00	100	0.0	0.0	0.75	0	0	6.1	0	98.0	-98
645+94	94	0.0	0.0	0.54	0	0	2.2	0	100.8	-101
646+00	6	0.0	0.0	0.54	0	0	0.1	0	100.9	-101
647+00	100	0.0	0.0	1.34	0	0	3.5	0	105.3	-105
648+00	100	0.0	0.0	2.04	0	0	6.3	0	113.1	-113
649+00	100	0.0	0.0	0.95	0	0	5.5	0	120.0	-120
649+69	69	0.0	0.0	0.83	0	0	2.3	0	122.9	-123
650+00	31	0.0	0.0	0.83	0	0	1.0	0	124.0	-124
651+00	100	0.0	0.0	0.00	0	0	1.5	0	126.0	-126
651+23	100	0.0	0.0	0.00	0	0	0.0	0	126.0	-126
658+56	656	0.0	0.0	0.00	0	0	0.0	0	126.0	-126
666+10	754	0.0	0.0	0.00	0	0	0.0	0	126.0	-126
667+12	102	0.0	0.0	0.00	0	0	0.0	0	126.0	-126
668+00	88	0.0	0.0	0.00	0	0	0.0	0	126.0	-126
668+79	79	0.0	0.0	0.00	0	0	0.0	0	126.0	-126
668+91	12	0.0	0.0	0.00	0	0	0.0	0	126.0	-126
680+21	1130	0.0	0.0	0.00	0	0	0.0	0	126.0	-126
681+00	79	0.0	0.0	0.00	0	0	0.0	0	126.0	-126
681+75	75	0.0	0.0	0.00	0	0	0.0	0	126.0	-126
682+00	25	0.0	0.0	0.00	0	0	0.0	0	126.0	-126
683+00	100	0.0	0.0	0.00	0	0	0.0	0	126.0	-126
684+00	100	0.0	0.0	0.00	0	0	0.0	0	126.0	-126
685+00	100	0.0	0.0	0.40	0	0	0.7	0	126.9	-127
686+00	100	0.0	0.0	0.00	0	0	0.7	0	127.8	-128
687+00	100	0.0	0.0	0.00	0	0	0.0	0	127.8	-128
688+00	100	0.0	0.0	0.00	0	0	0.0	0	127.8	-128
689+00	100	0.0	0.0	0.90	0	0	1.7	0	129.9	-130
690+00	100	0.0	0.0	0.05	0	0	1.8	0	132.1	-132
690+97	97	0.0	0.0	1.21	0	0	2.3	0	134.9	-135
691+00	3	0.0	0.0	1.21	0	0	0.1	0	135.1	-135
692+00	100	0.0	0.0	0.00	0	0	2.2	0	137.9	-138
692+51	51	0.0	0.0	0.00	0	0	0.0	0	137.9	-138
698+00	549	0.0	0.0	0.00	0	0	0.0	0	137.9	-138
698+70	70	0.0	0.0	0.00	0	0	0.0	0	137.9	-138

NOTE Only beginning, ending, proposed earthwork, and superelevation stations are included in this table.

CONTINUED ON NEXT PAGE

9

9

PROJECT NO: 5410-01-73 | HWY: USH 51 | COUNTY: DANE | EARTHWORK | SHEET E

FILE NAME : P:\90s\93\00093254\CADD\SheetsPlan\earthwork border.dgn PLOT DATE : 3/28/2016 PLOT BY : jdolens PLOT NAME : PLOT SCALE : 1:200

WISDOT/CADDS SHEET 49

EARTHWORK CONTINUED

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)		Mass Ordinate
		Cut	Salvaged / Unusable Pavement Material	Fill	Cut	Salvaged / Unusable Pavement Material	Fill	Cut 1.00	Expanded Fill 1.25	
706+60	790	0.0	0.0	0.00	0	0	0.0	0	137.9	-138
707+00	40	0.0	0.0	0.00	0	0	0.0	0	137.9	-138
708+00	100	0.0	0.0	0.00	0	0	0.0	0	137.9	-138
710+50	250	0.0	0.0	0.00	0	0	0.0	0	137.9	-138
711+00	50	0.0	0.0	1.51	0	0	1.4	0	139.6	-140
712+00	100	0.0	0.0	0.38	0	0	3.5	0	144.0	-144
713+00	100	0.0	0.0	4.31	0	0	8.7	0	154.9	-155
714+00	100	0.0	0.0	2.10	0	0	11.9	0	169.7	-170
715+25	125	0.0	0.0	0.05	0	0	5.0	0	175.9	-176
716+00	75	0.0	0.0	0.17	0	0	0.3	0	176.3	-176
716+89	89	0.0	0.0	4.00	0	0	6.9	0	184.9	-185
717+00	11	0.0	0.0	2.60	0	0	1.3	0	186.6	-187
718+00	100	0.0	0.0	0.00	0	0	4.8	0	192.6	-193
719+00	100	0.0	0.0	0.00	0	0	0.0	0	192.6	-193
719+89	89	0.0	0.0	3.14	0	0	5.2	0	199.1	-199
721+00	111	0.0	0.0	0.00	0	0	6.5	0	207.1	-207
721+25	25	0.0	0.0	0.00	0	0	0.0	0	207.1	-207
721+50	25	0.0	0.0	0.00	0	0	0.0	0	207.1	-207
722+00	50	0.0	0.0	0.00	0	0	0.0	0	207.1	-207
723+16	116	0.0	0.0	0.00	0	0	0.0	0	207.1	-207
724+00	84	0.0	0.0	0.00	0	0	0.0	0	207.1	-207
724+51	51	0.0	0.0	0.00	0	0	0.0	0	207.1	-207
754+68	3017	0.0	0.0	0.00	0	0	0.0	0	207.1	-207
755+59	91	0.0	0.0	0.00	0	0	0.0	0	207.1	-207
766+00	1041	0.0	0.0	0.00	0	0	0.0	0	207.1	-207
767+00	100	0.0	0.0	0.63	0	0	1.2	0	208.6	-209
768+00	100	0.0	0.0	0.00	0	0	1.2	0	210.1	-210
769+00	100	0.0	0.0	0.38	0	0	0.7	0	210.9	-211
770+00	100	0.0	0.0	3.75	0	0	7.6	0	220.5	-220
771+00	100	0.0	0.0	3.59	0	0	13.6	0	237.5	-237
772+00	100	0.0	0.0	1.07	0	0	8.6	0	248.3	-248
773+00	100	0.0	0.0	0.00	0	0	2.0	0	250.8	-251
774+00	100	0.0	0.0	0.00	0	0	0.0	0	250.8	-251
774+83	83	0.0	0.0	0.00	0	0	0.0	0	250.8	-251
NOTE	Only beginning, ending, proposed earthwork, and superelevation stations are included in this table.									

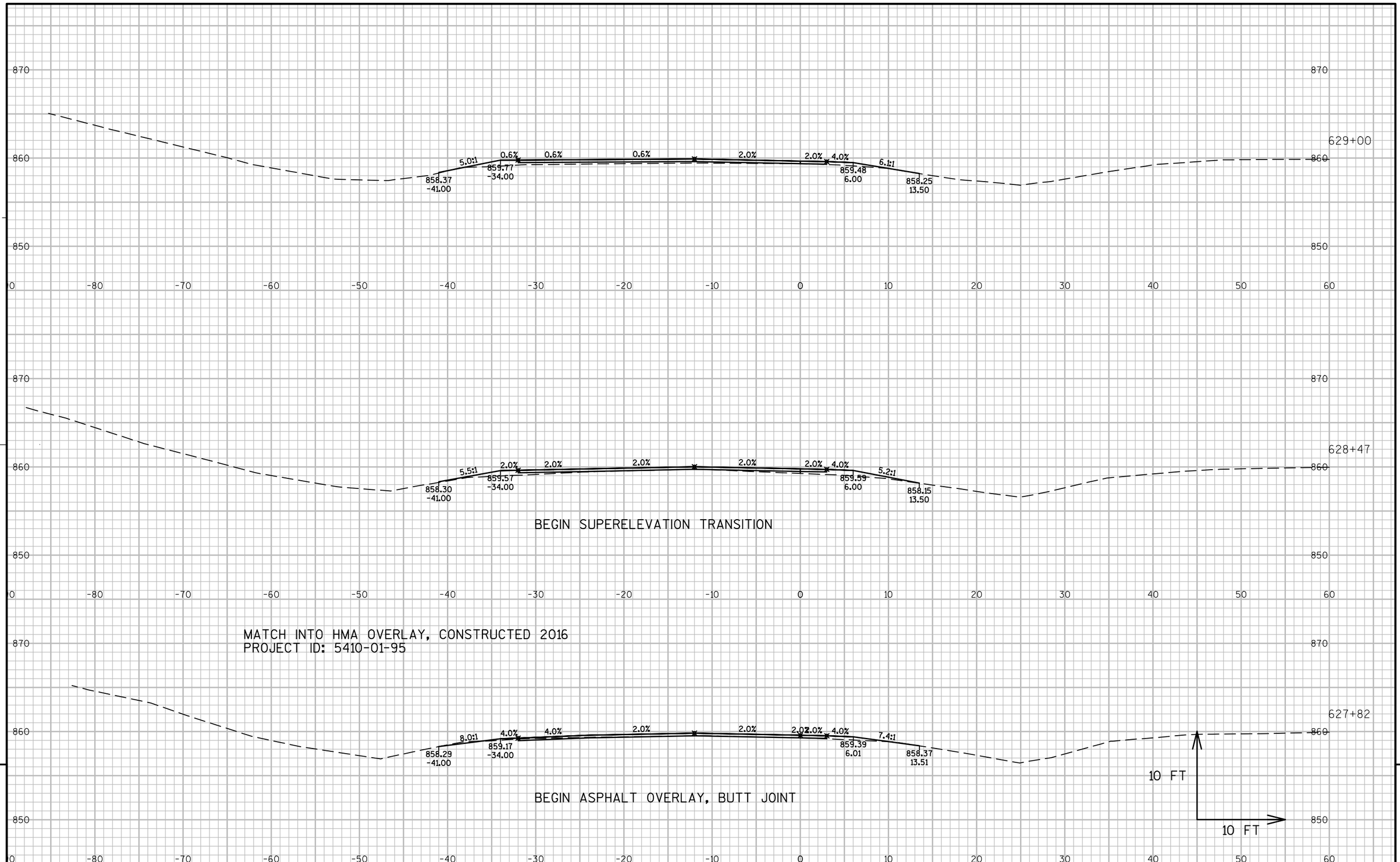
9

9

PROJECT NO: 5410-01-73 | HWY: USH 51 | COUNTY: DANE | EARTHWORK | SHEET E

FILE NAME : P:\90s\93\00093254\CADD\SheetsPlan\earthwork border.dgn PLOT DATE : 3/28/2016 PLOT BY : jdolens PLOT NAME : PLOT SCALE : 1:200

WISDOT/CADDS SHEET 49

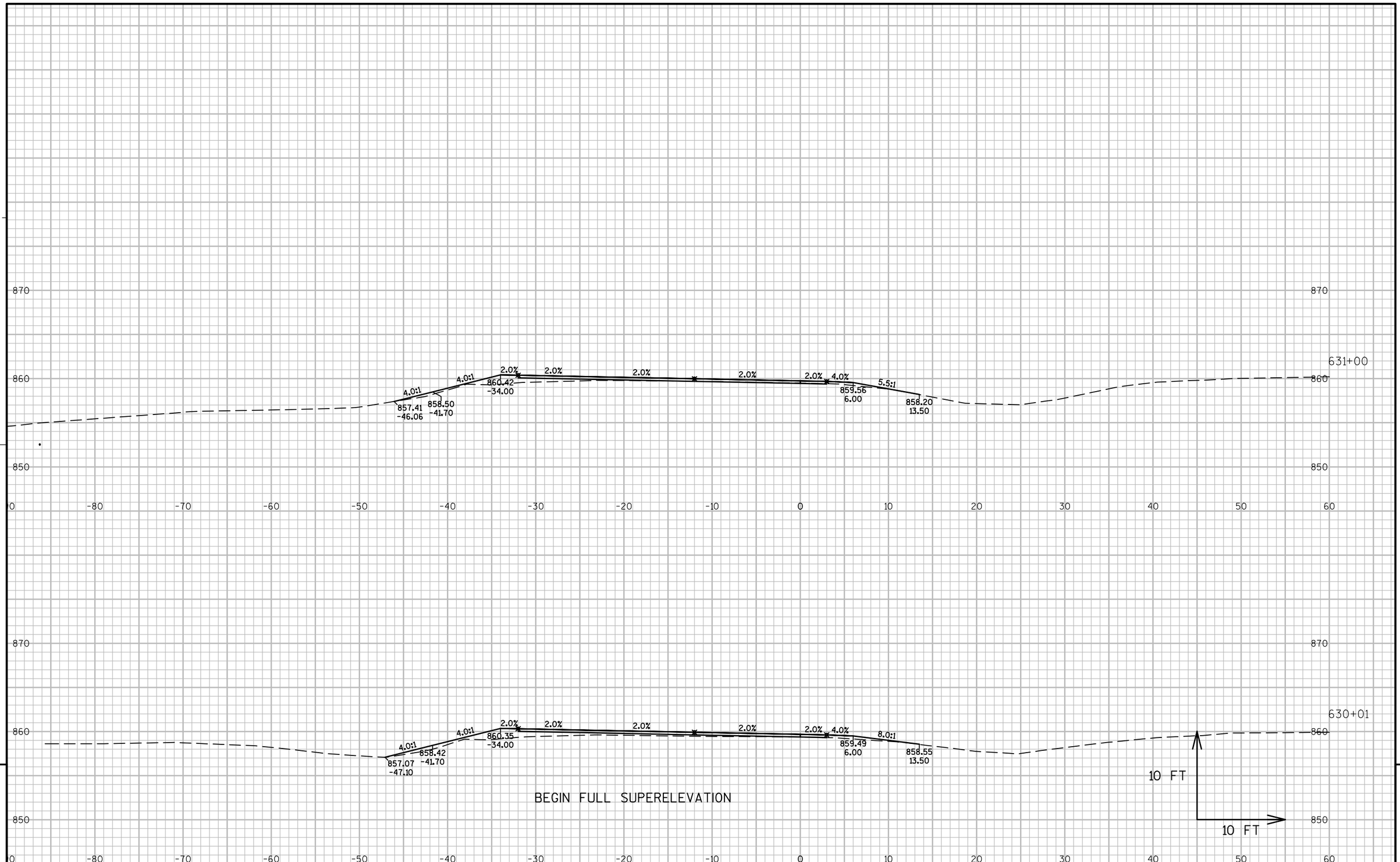


PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	CROSS SECTIONS: USH 51 SOUTHBOUND	SHEET 185	E

FILE NAME : P:\90S\93\00093254\CADD\DESIGN\XSECTIONS\US51_SB_XS.DWG
LAYOUT NAME - 090201 - XS

PLOT DATE : 5/26/2016 1:39 PM PLOT BY : CHASE KIELER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

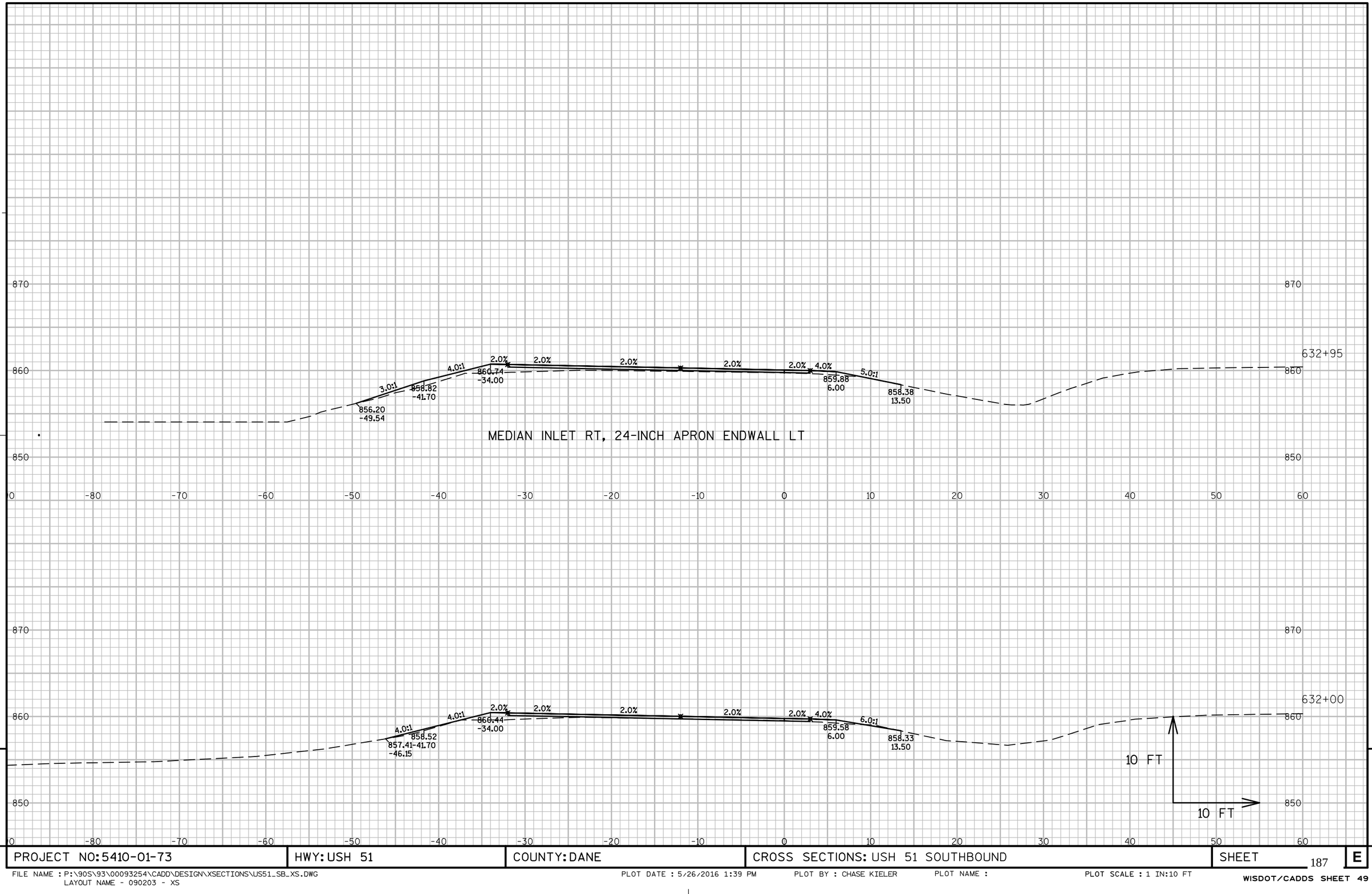


PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	CROSS SECTIONS: USH 51 SOUTHBOUND	SHEET 186	E

FILE NAME : P:\90S\93\00093254\CADD\DESIGN\XSECTIONS\US51_SB_XS.DWG
LAYOUT NAME - 090202 - XS

PLOT DATE : 5/26/2016 1:39 PM PLOT BY : CHASE KIELER PLOT NAME : PLOT SCALE : 1 IN:10 FT

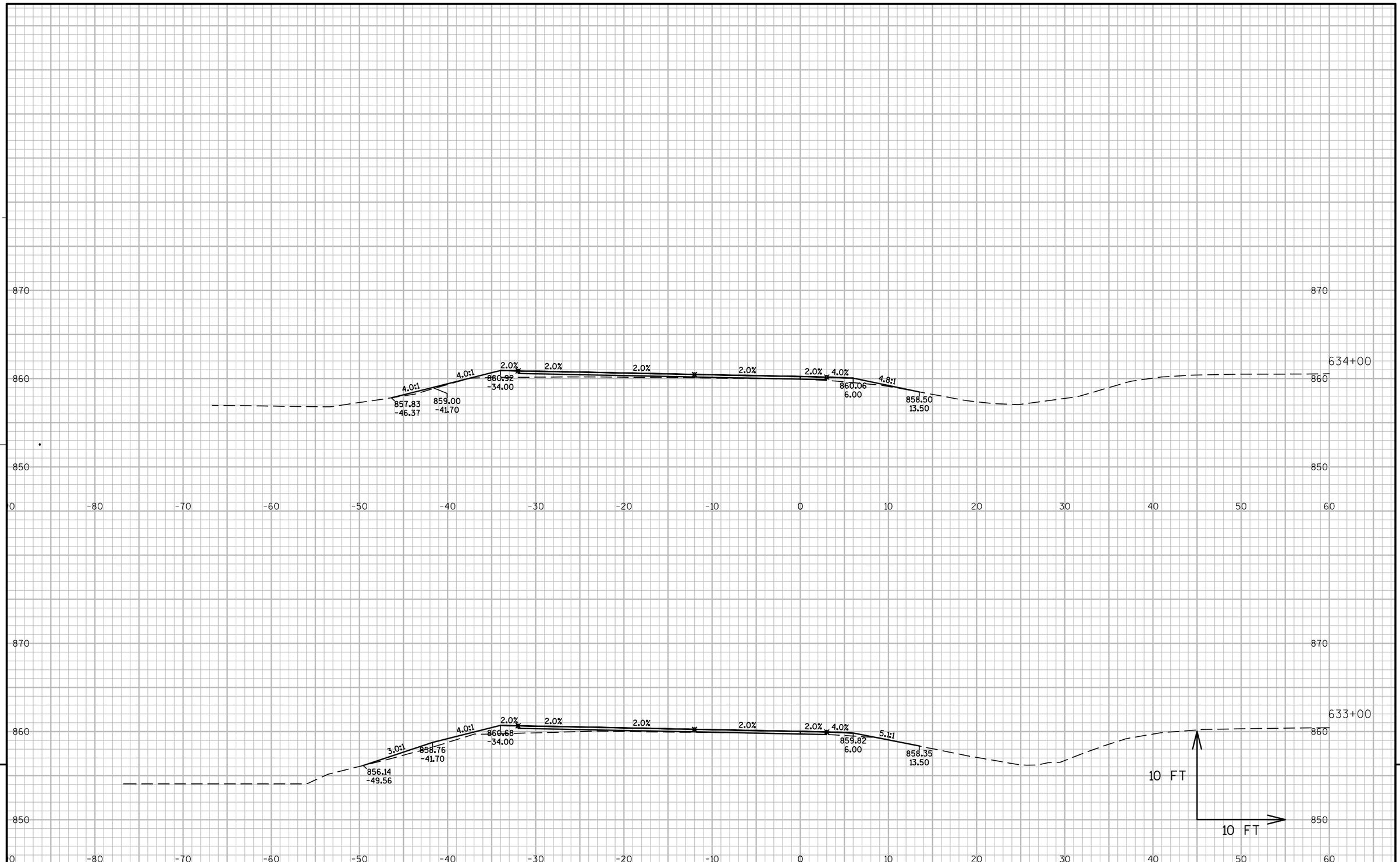
WISDOT/CADDS SHEET 49



PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	CROSS SECTIONS: USH 51 SOUTHBOUND	SHEET 187	E

FILE NAME : P:\90S\93\00093254\CADD\DESIGN\XSECTIONS\US51_SB_XS.DWG
LAYOUT NAME - 090203 - XS

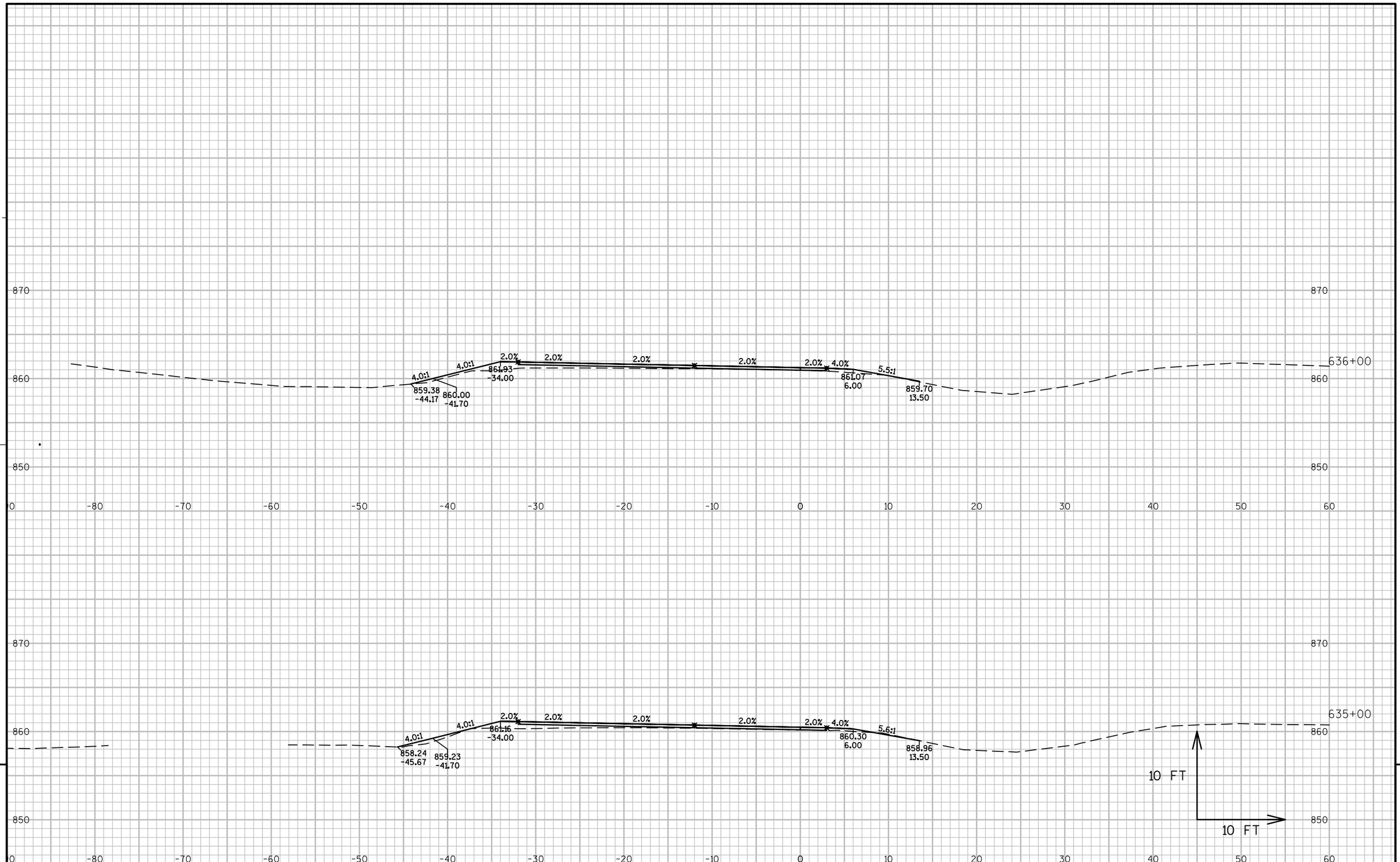
PLOT DATE : 5/26/2016 1:39 PM PLOT BY : CHASE KIELER PLOT NAME : PLOT SCALE : 1 IN:10 FT



PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	CROSS SECTIONS: USH 51 SOUTHBOUND	SHEET 188	E

FILE NAME : P:\90S\93\00093254\CADD\DESIGN\XSECTIONS\US51_SB_XS.DWG
LAYOUT NAME - 090204 - XS

PLOT DATE : 5/26/2016 1:39 PM PLOT BY : CHASE KIELER PLOT NAME : PLOT SCALE : 1 IN:10 FT



9

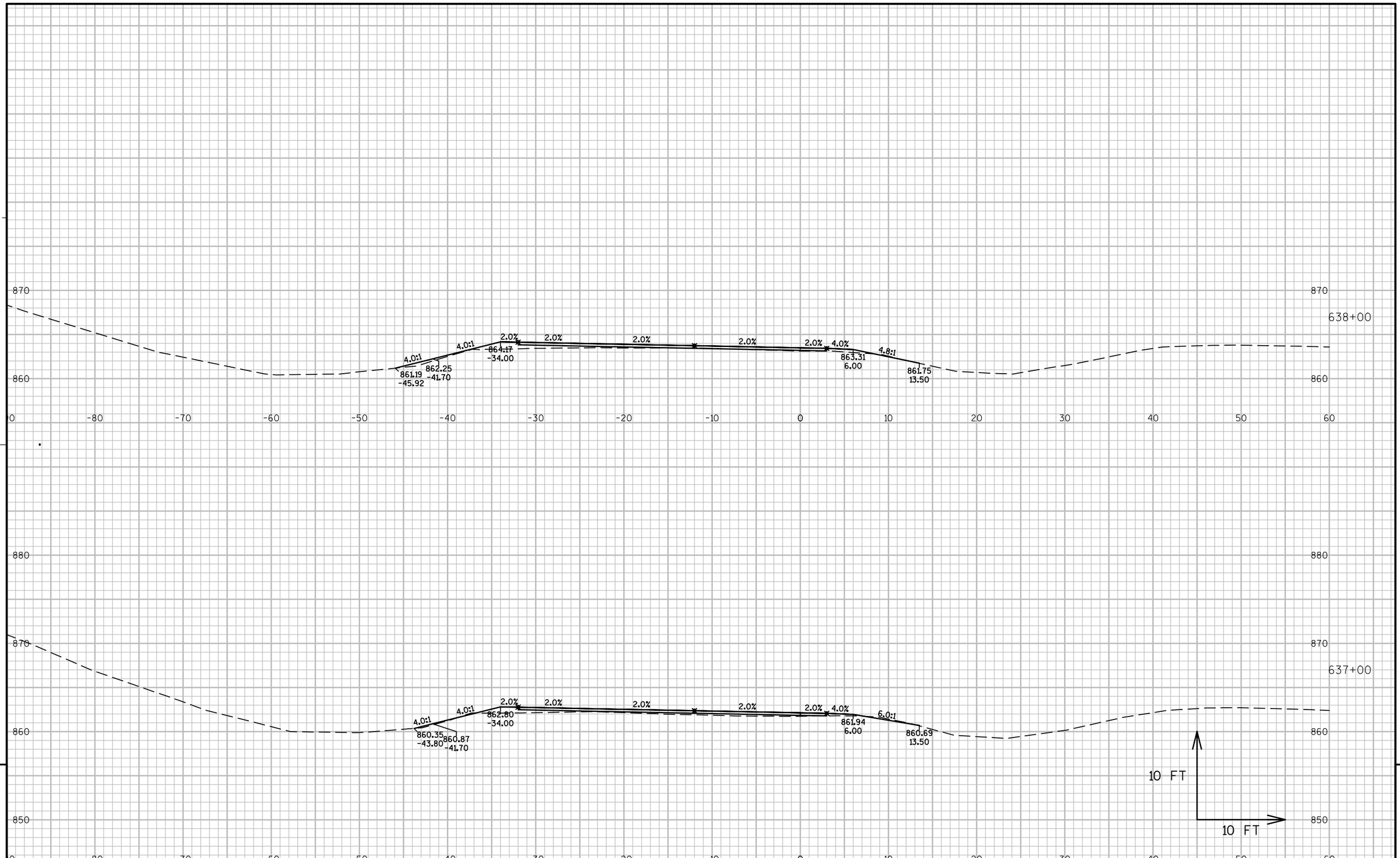
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PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	CROSS SECTIONS: USH 51 SOUTHBOUND	SHEET 189	E

FILE NAME : P:\90S\93\00093254\CADD\DESIGN\XSECTIONS\US51_SB_XS.DWG
LAYOUT NAME - 090205 - XS

PLOT DATE : 5/26/2016 1:39 PM PLOT BY : CHASE KIELER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

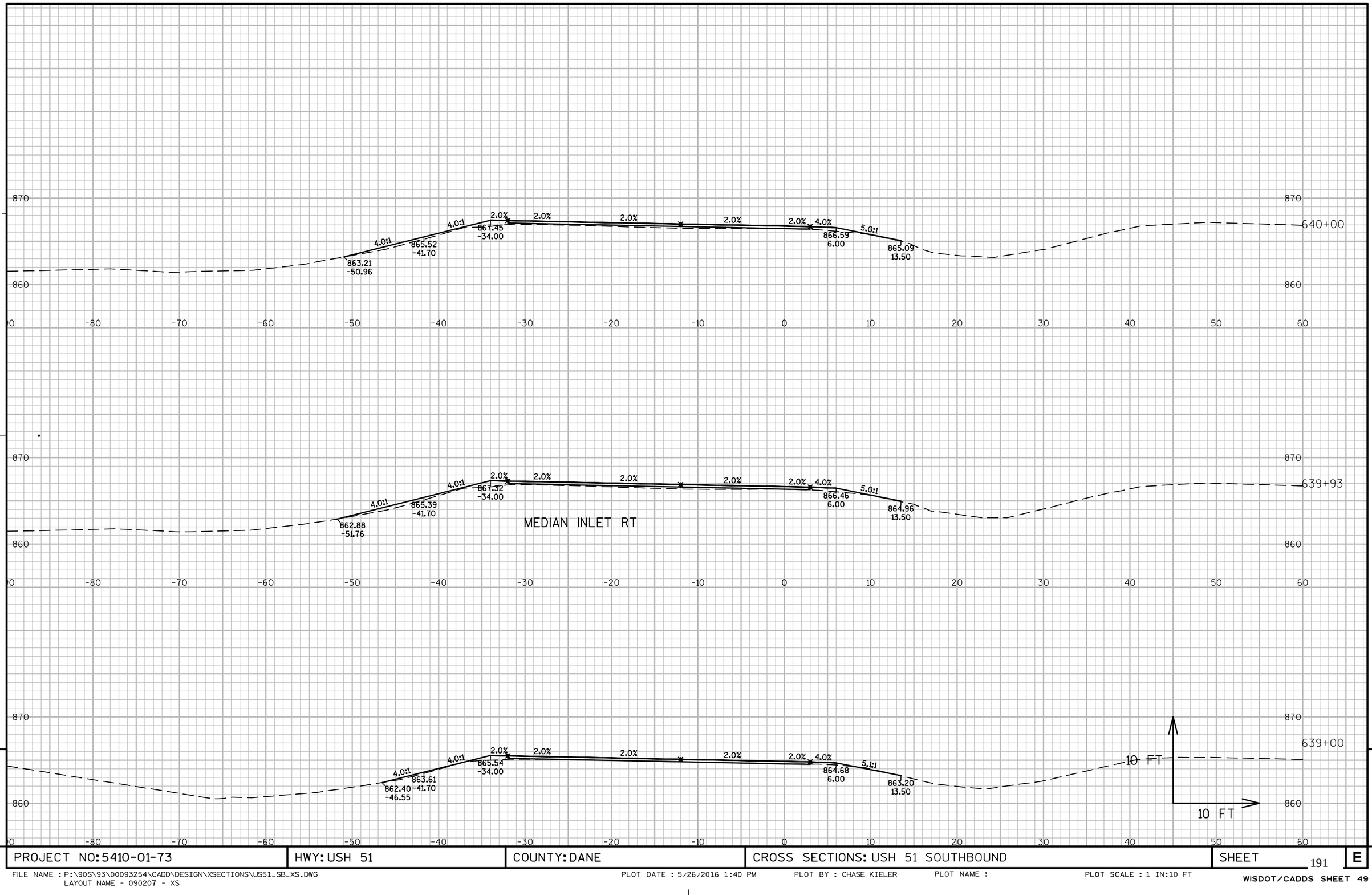


PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	CROSS SECTIONS: USH 51 SOUTHBOUND	SHEET 190 E

FILE NAME : P:\90S\93\00093254\CADD\DESIGN\XSECTIONS\US51_SB_XS.DWG
LAYOUT NAME - 090206 - XS

PLOT DATE : 5/26/2016 1:40 PM PLOT BY : CHASE KIELER PLOT NAME : PLOT SCALE : 1 IN:10 FT

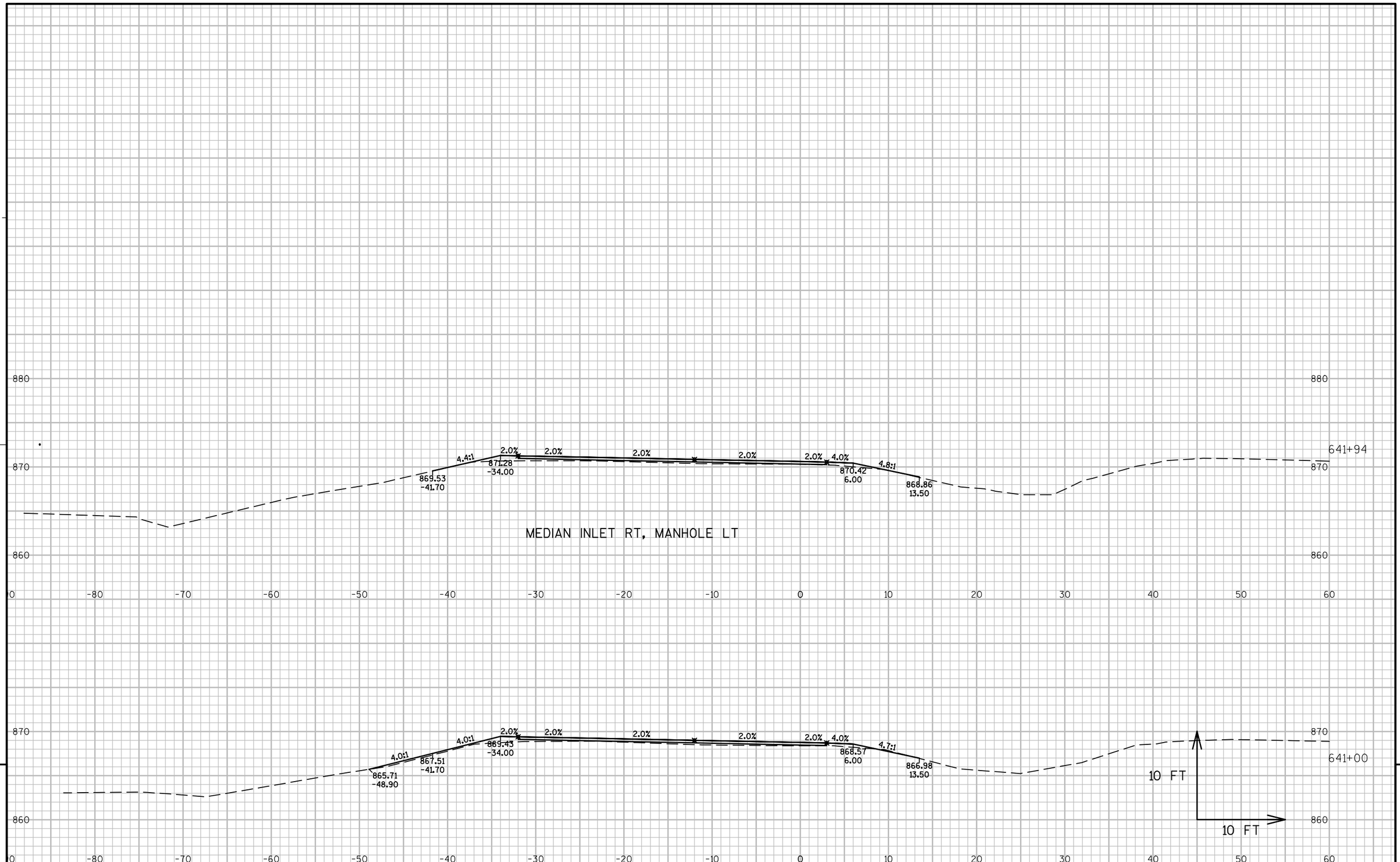
WISDOT/CADDS SHEET 49



PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	CROSS SECTIONS: USH 51 SOUTHBOUND	SHEET 191	E

FILE NAME : P:\90S\93\00093254\CADD\DESIGN\XSECTIONS\US51_SB_XS.DWG
LAYOUT NAME - 090207 - XS

PLOT DATE : 5/26/2016 1:40 PM PLOT BY : CHASE KIELER PLOT NAME : PLOT SCALE : 1 IN:10 FT



9

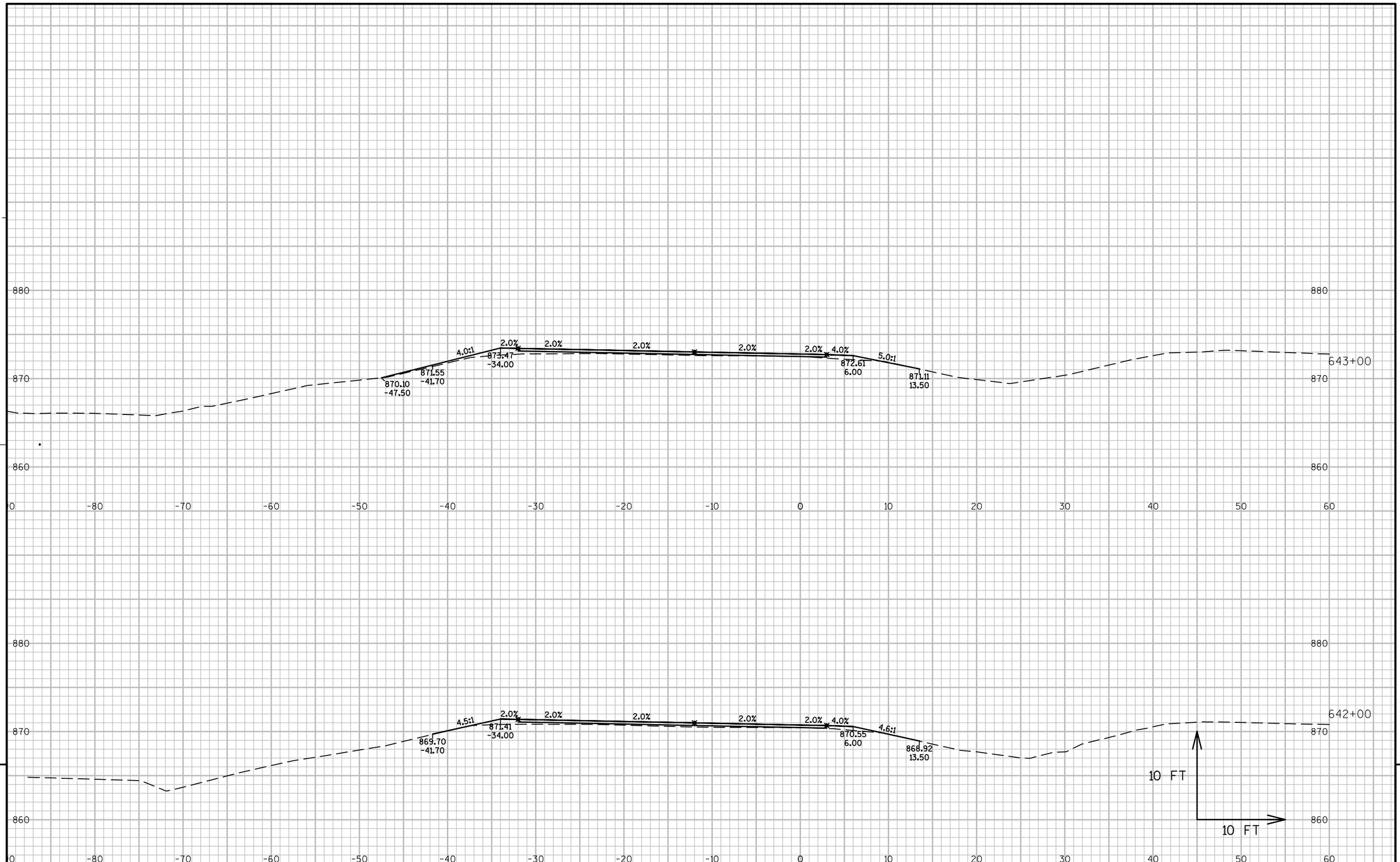
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PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	CROSS SECTIONS: USH 51 SOUTHBOUND	SHEET 192	E

FILE NAME : P:\90S\93\00093254\CADD\DESIGN\XSECTIONS\US51_SB_XS.DWG
LAYOUT NAME - 090208 - XS

PLOT DATE : 5/26/2016 1:40 PM PLOT BY : CHASE KIELER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

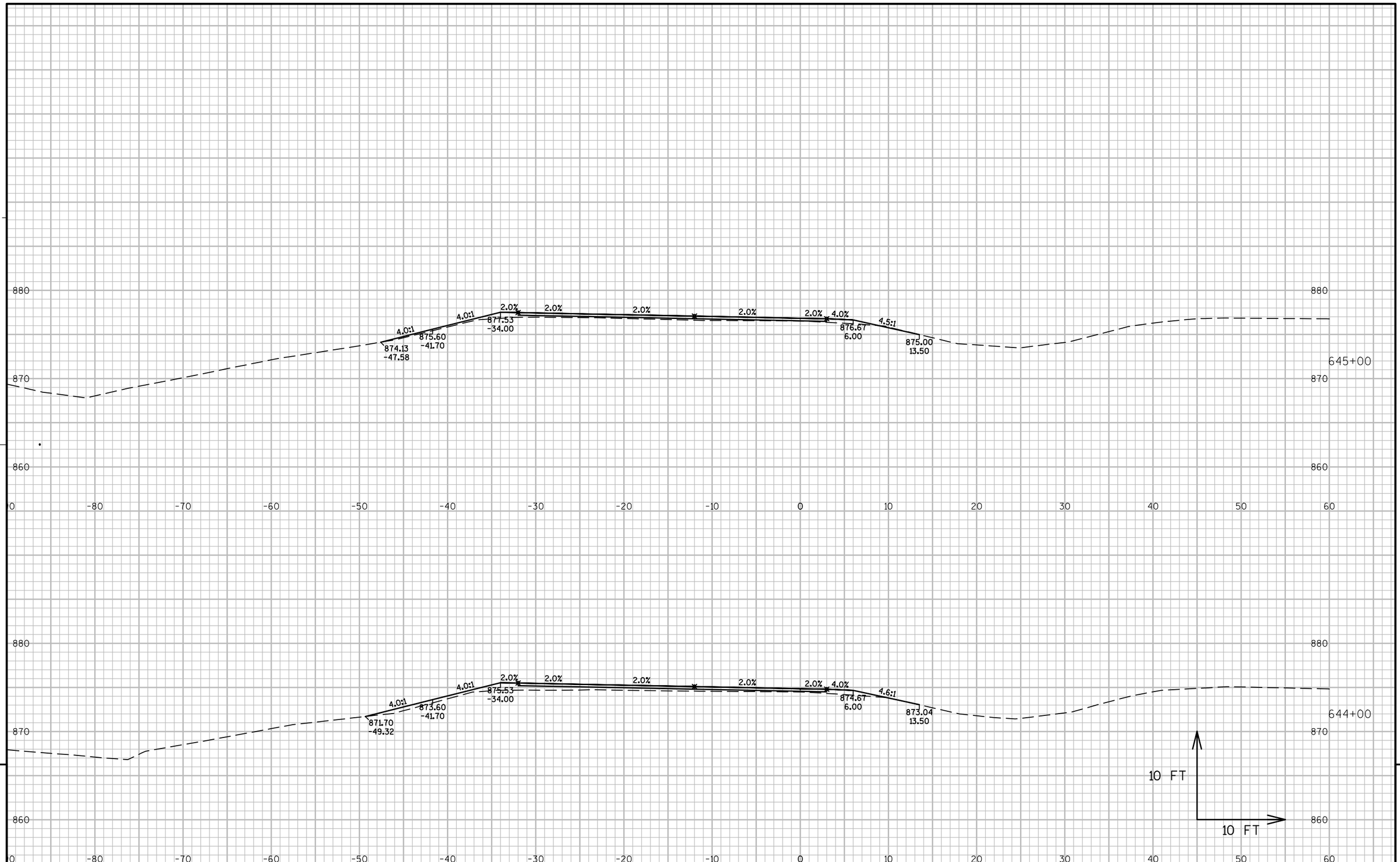
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PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	CROSS SECTIONS: USH 51 SOUTHBOUND	SHEET 193	E

FILE NAME : P:\90S\93\00093254\CADD\DESIGN\XSECTIONS\US51_SB_XS.DWG
LAYOUT NAME - 090209 - XS

PLOT DATE : 5/26/2016 1:40 PM PLOT BY : CHASE KIELER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

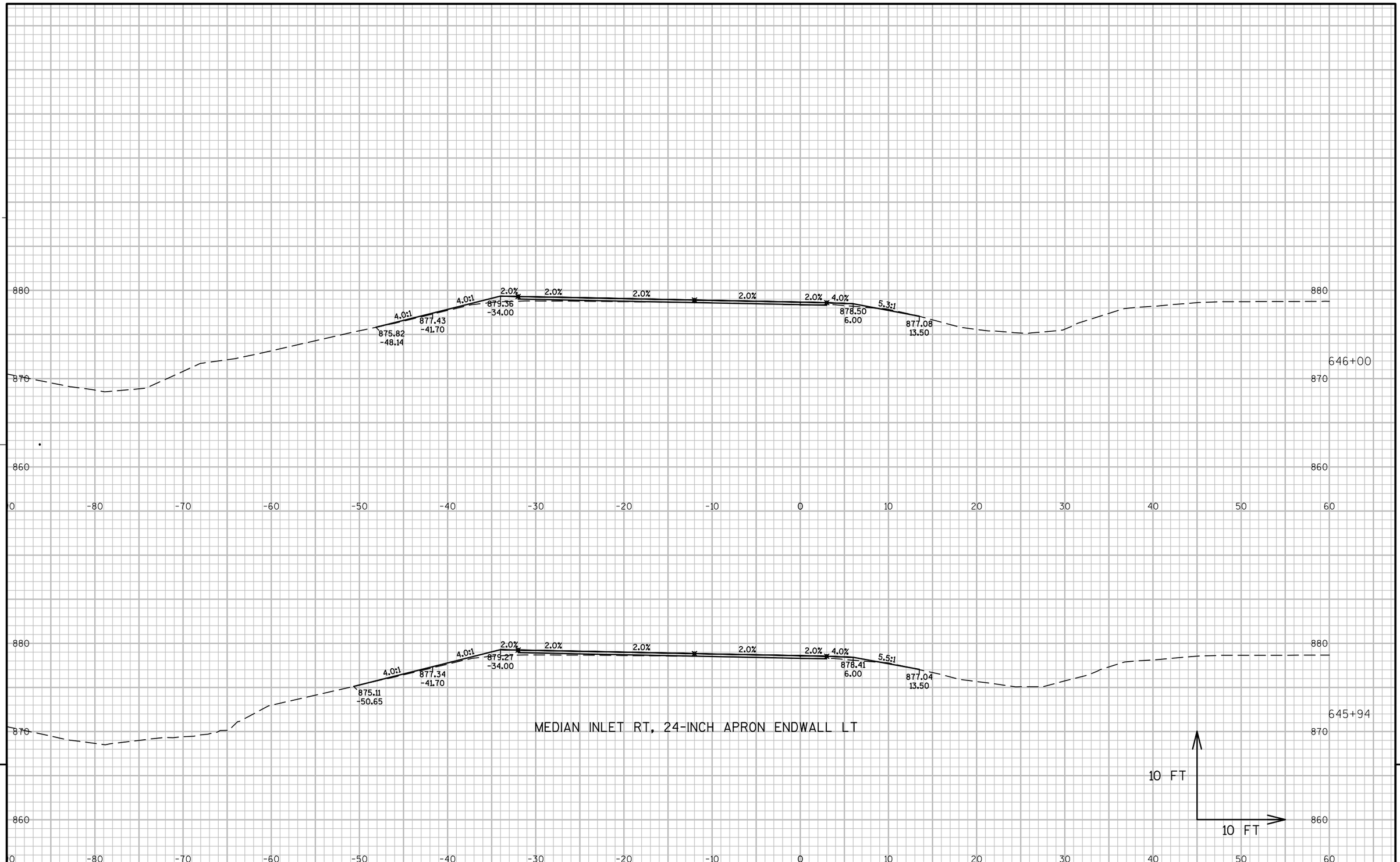


PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	CROSS SECTIONS: USH 51 SOUTHBOUND	SHEET 194	E

FILE NAME : P:\90S\93\00093254\CADD\DESIGN\XSECTIONS\US51_SB_XS.DWG
LAYOUT NAME - 090210 - XS

PLOT DATE : 5/26/2016 1:40 PM PLOT BY : CHASE KIELER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

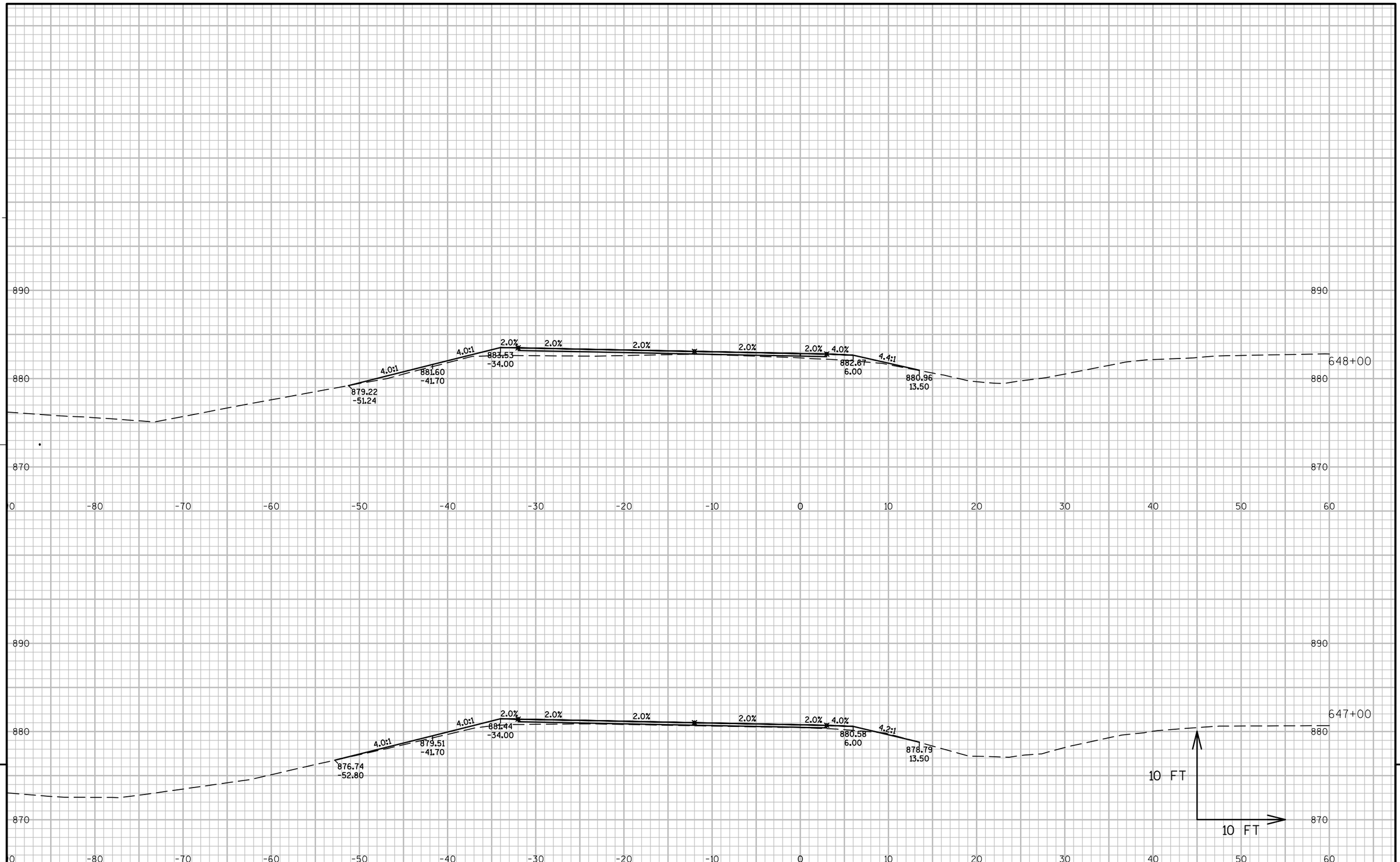


PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	CROSS SECTIONS: USH 51 SOUTHBOUND	SHEET 195	E

FILE NAME : P:\90S\93\00093254\CADD\DESIGN\XSECTIONS\US51_SB_XS.DWG
LAYOUT NAME - 090211 - XS

PLOT DATE : 5/26/2016 1:40 PM PLOT BY : CHASE KIELER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

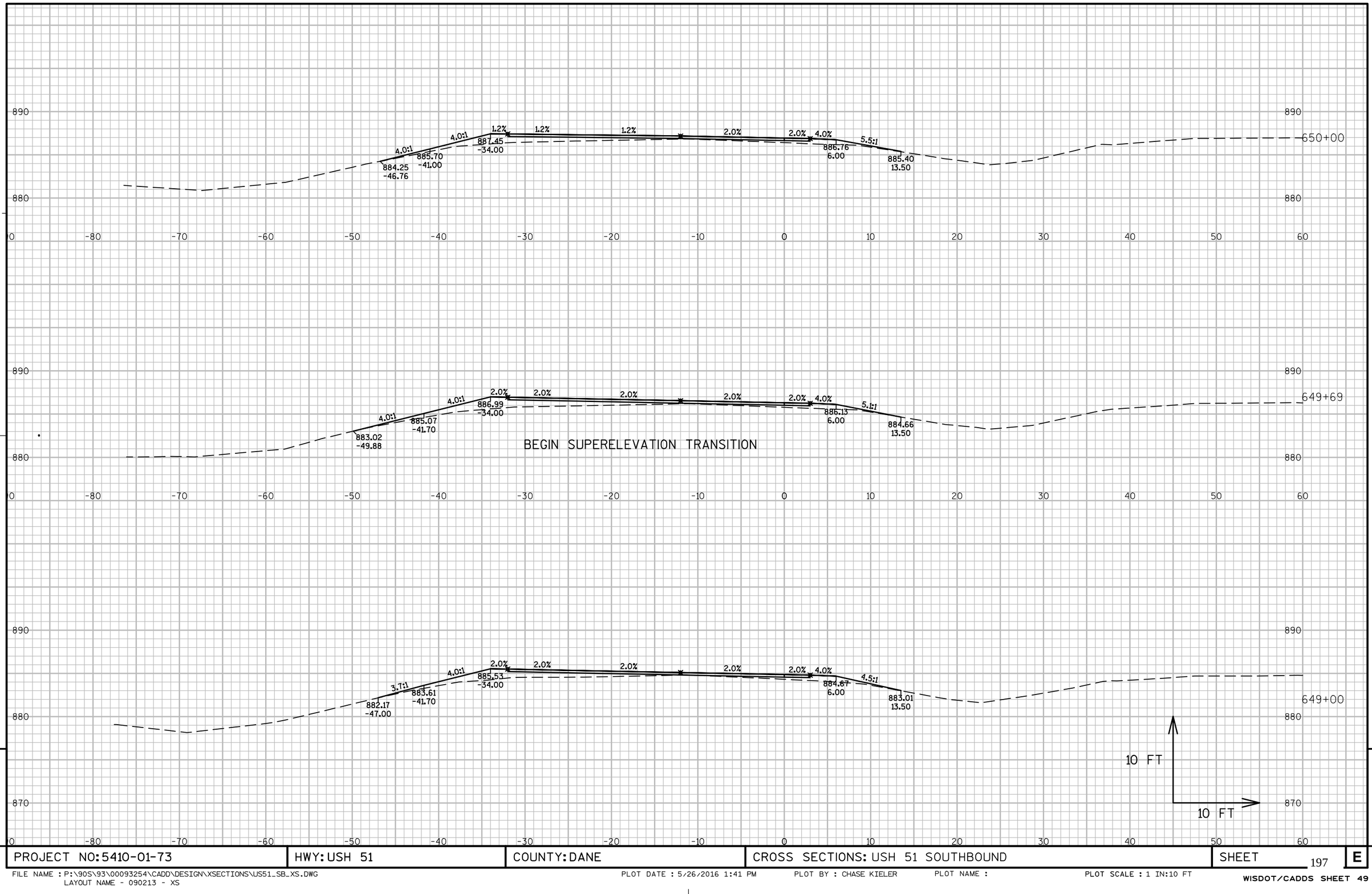
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PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	CROSS SECTIONS: USH 51 SOUTHBOUND	SHEET 196	E

FILE NAME : P:\90S\93\00093254\CADD\DESIGN\XSECTIONS\US51_SB_XS.DWG
LAYOUT NAME - 090212 - XS

PLOT DATE : 5/26/2016 1:41 PM PLOT BY : CHASE KIELER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

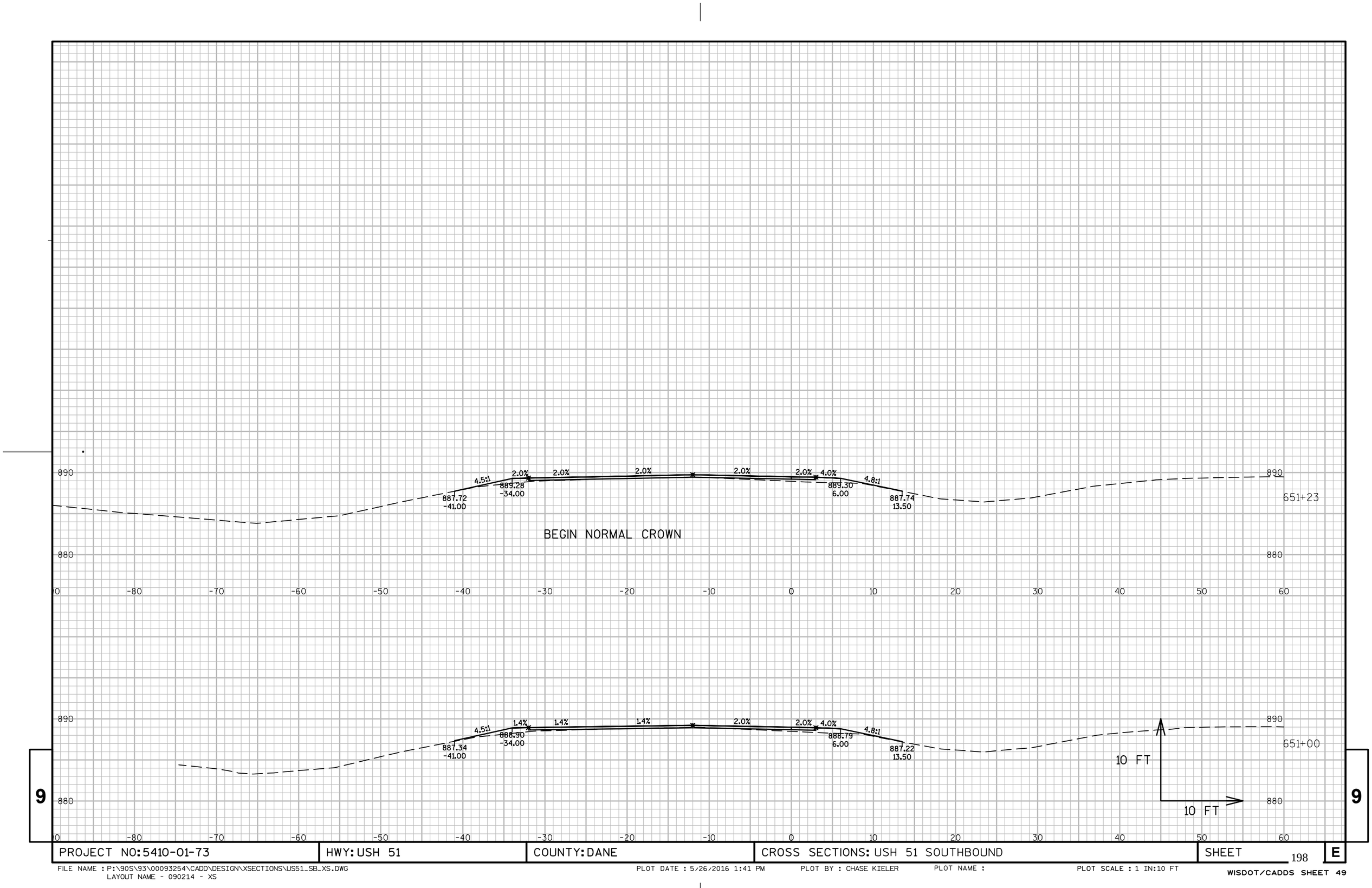


PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	CROSS SECTIONS: USH 51 SOUTHBOUND	SHEET 197	E

FILE NAME : P:\90S\93\00093254\CADD\DESIGN\XSECTIONS\US51_SB_XS.DWG
LAYOUT NAME - 090213 - XS

PLOT DATE : 5/26/2016 1:41 PM PLOT BY : CHASE KIELER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

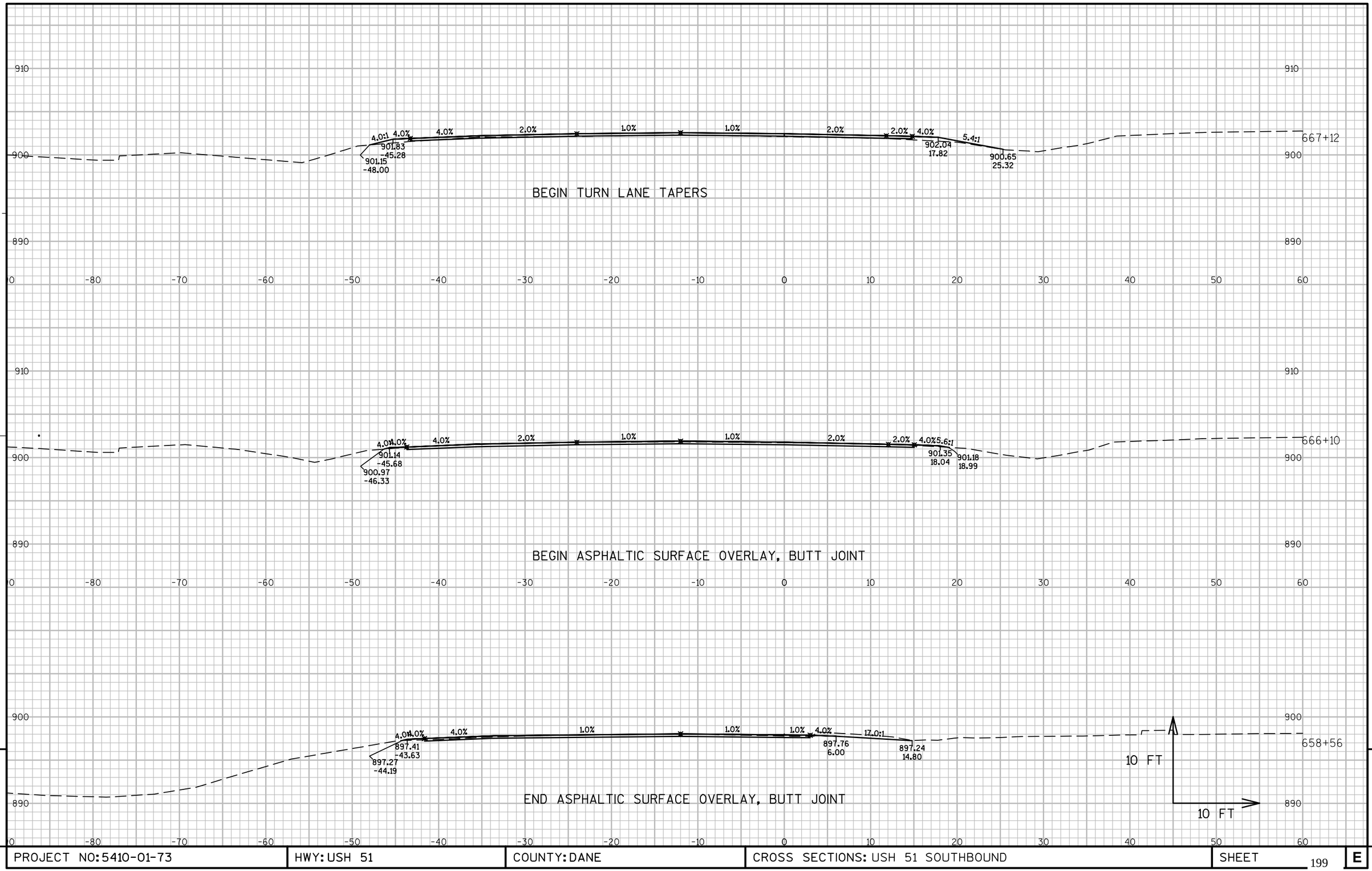
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PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	CROSS SECTIONS: USH 51 SOUTHBOUND	SHEET 198	E

FILE NAME : P:\90S\93\00093254\CADD\DESIGN\XSECTIONS\US51_SB_XS.DWG
LAYOUT NAME - 090214 - XS

PLOT DATE : 5/26/2016 1:41 PM PLOT BY : CHASE KIELER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

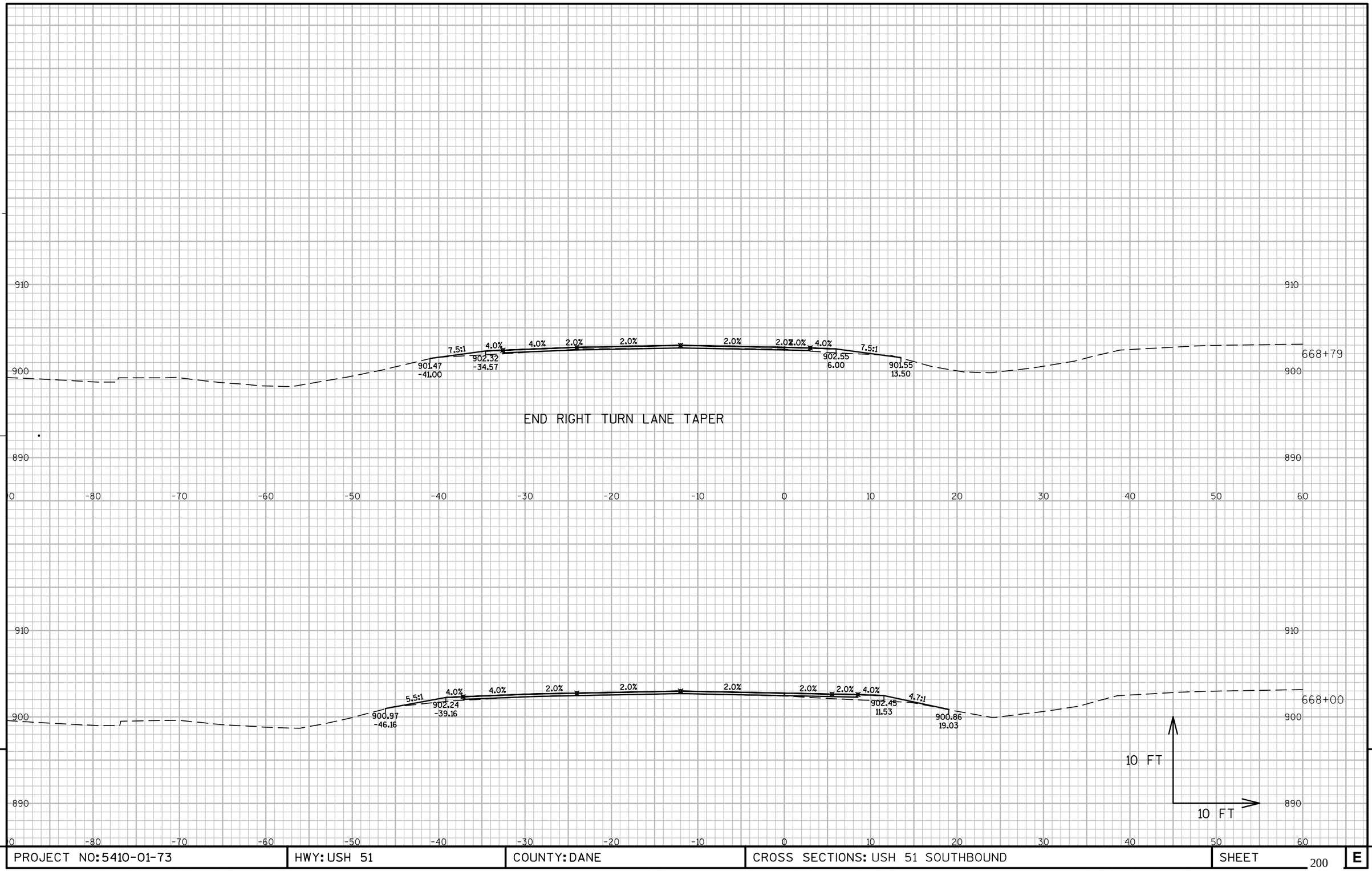


PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	CROSS SECTIONS: USH 51 SOUTHBOUND	SHEET 199	E

FILE NAME : P:\90S\93\00093254\CADD\DESIGN\XSECTIONS\US51_SB_XS.DWG
LAYOUT NAME - 090215 - XS

PLOT DATE : 5/26/2016 1:41 PM PLOT BY : CHASE KIELER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



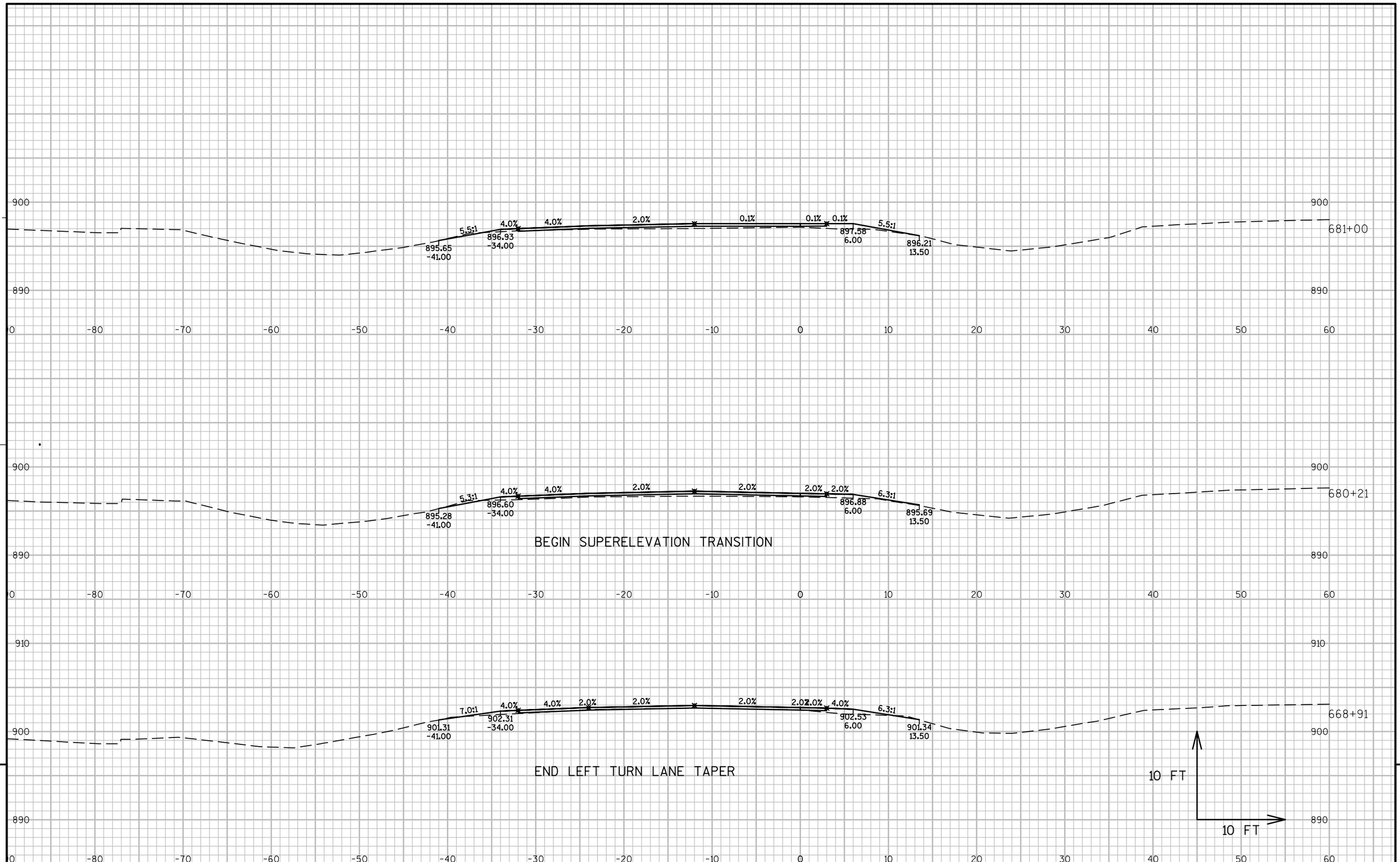
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PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	CROSS SECTIONS: USH 51 SOUTHBOUND	SHEET 200 E

FILE NAME : P:\90S\93\00093254\CADD\DESIGN\XSECTIONS\US51_SB_XS.DWG
LAYOUT NAME - 090216 - XS

PLOT DATE : 5/26/2016 1:41 PM PLOT BY : CHASE KIELER PLOT NAME : PLOT SCALE : 1 IN:10 FT



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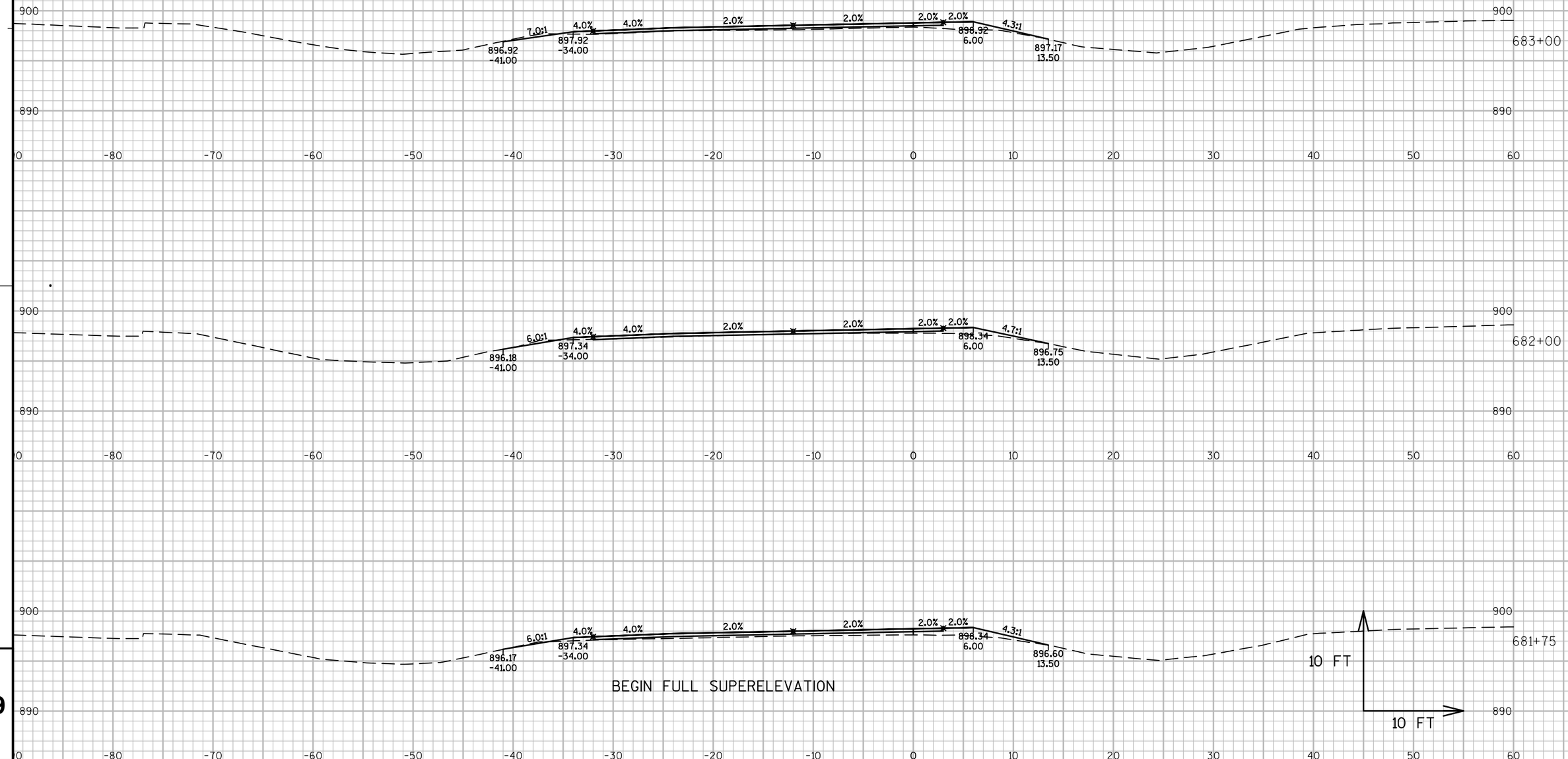
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PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	CROSS SECTIONS: USH 51 SOUTHBOUND	SHEET 201	E

FILE NAME : P:\90S\93\00093254\CADD\DESIGN\XSECTIONS\US51_SB_XS.DWG
LAYOUT NAME - 090217 - XS

PLOT DATE : 5/26/2016 1:41 PM PLOT BY : CHASE KIELER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

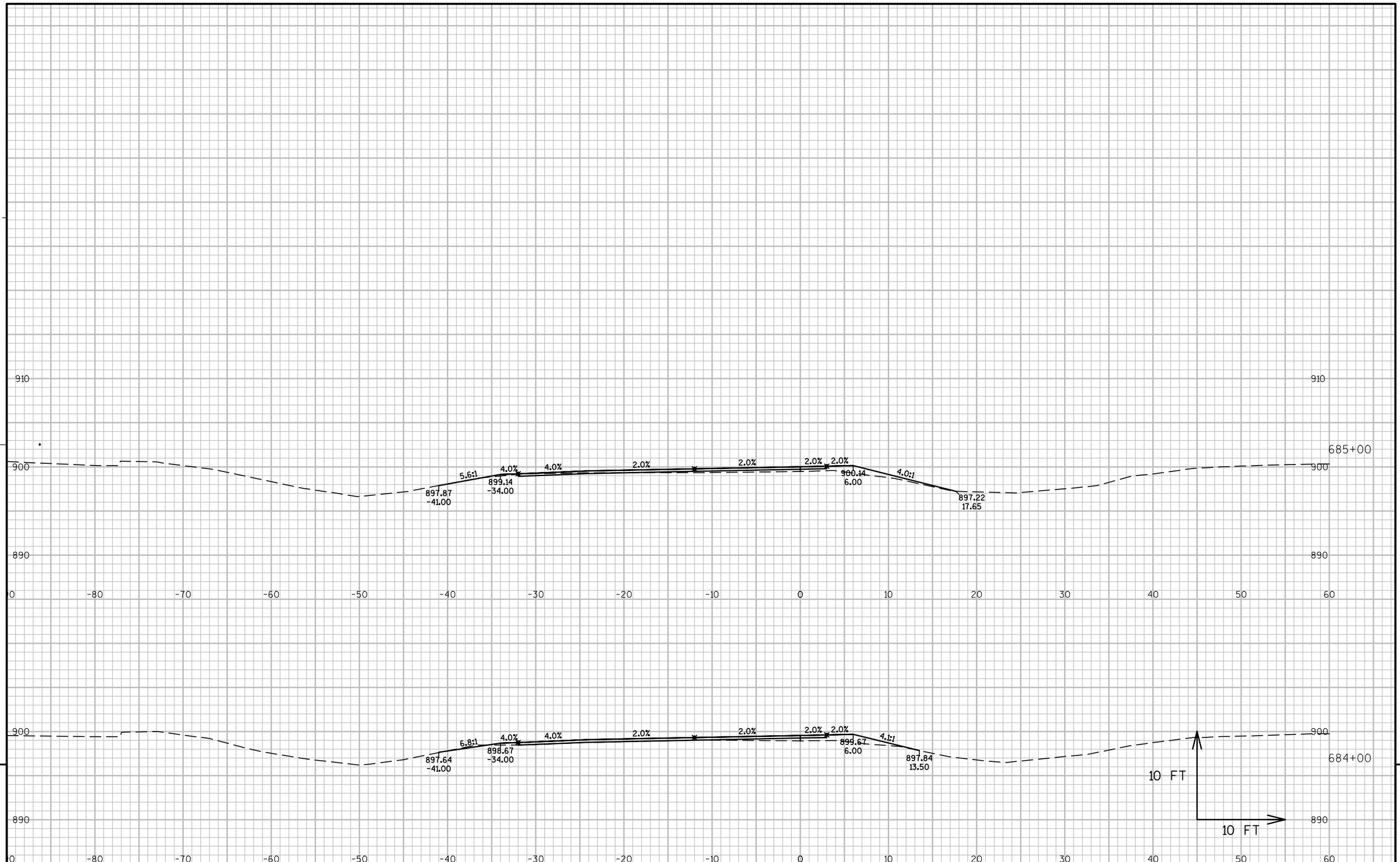


PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	CROSS SECTIONS: USH 51 SOUTHBOUND	SHEET 202	E

FILE NAME : P:\90S\93\00093254\CADD\DESIGN\XSECTIONS\US51_SB_XS.DWG
LAYOUT NAME - 090218 - XS

PLOT DATE : 5/26/2016 1:42 PM PLOT BY : CHASE KIELER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

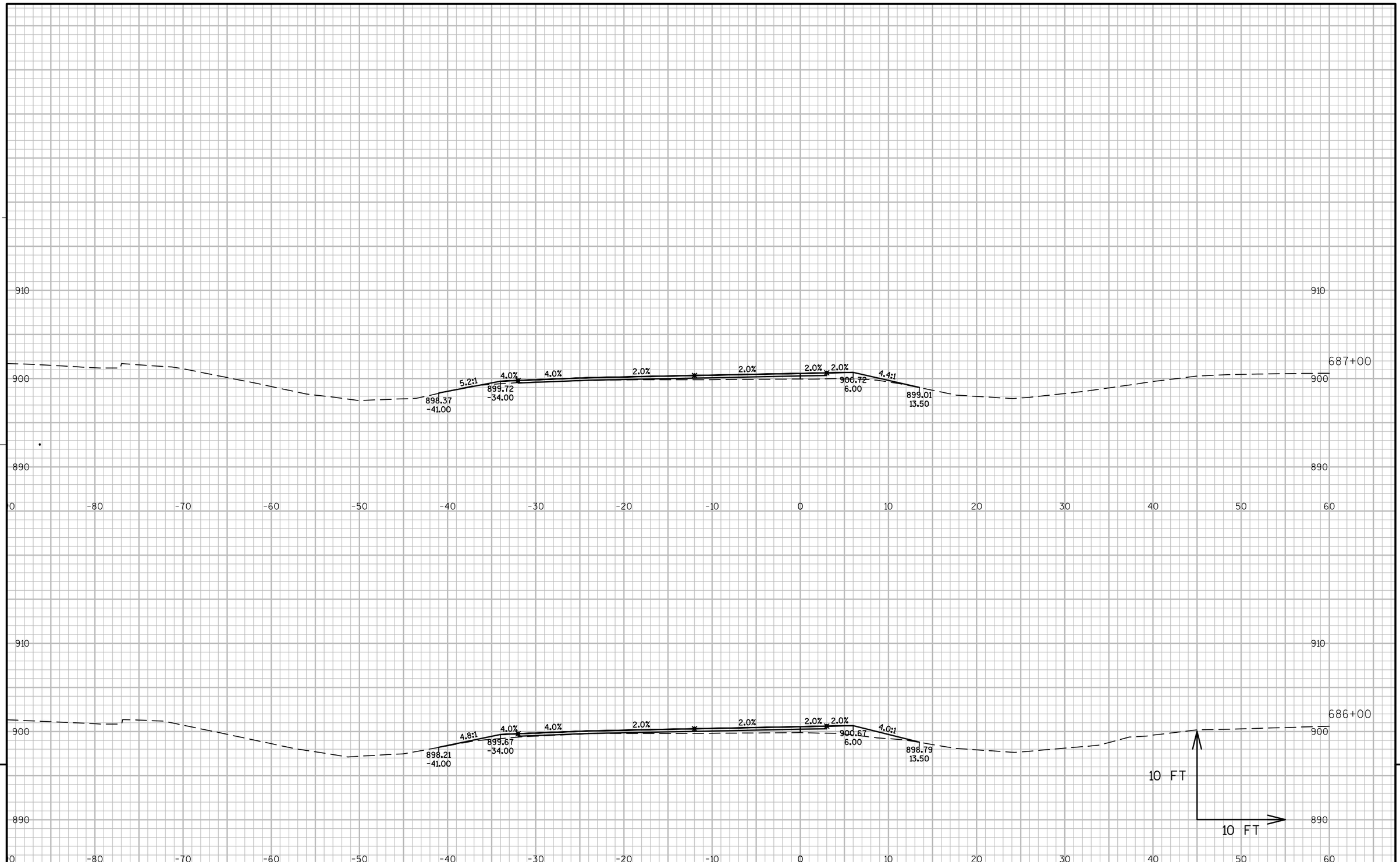


PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	CROSS SECTIONS: USH 51 SOUTHBOUND	SHEET 203 E

FILE NAME : P:\90S\93\00093254\CADD\DESIGN\XSECTIONS\US51_SB_XS.DWG
LAYOUT NAME - 090220 - XS

PLOT DATE : 5/26/2016 1:42 PM PLOT BY : CHASE KIELER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

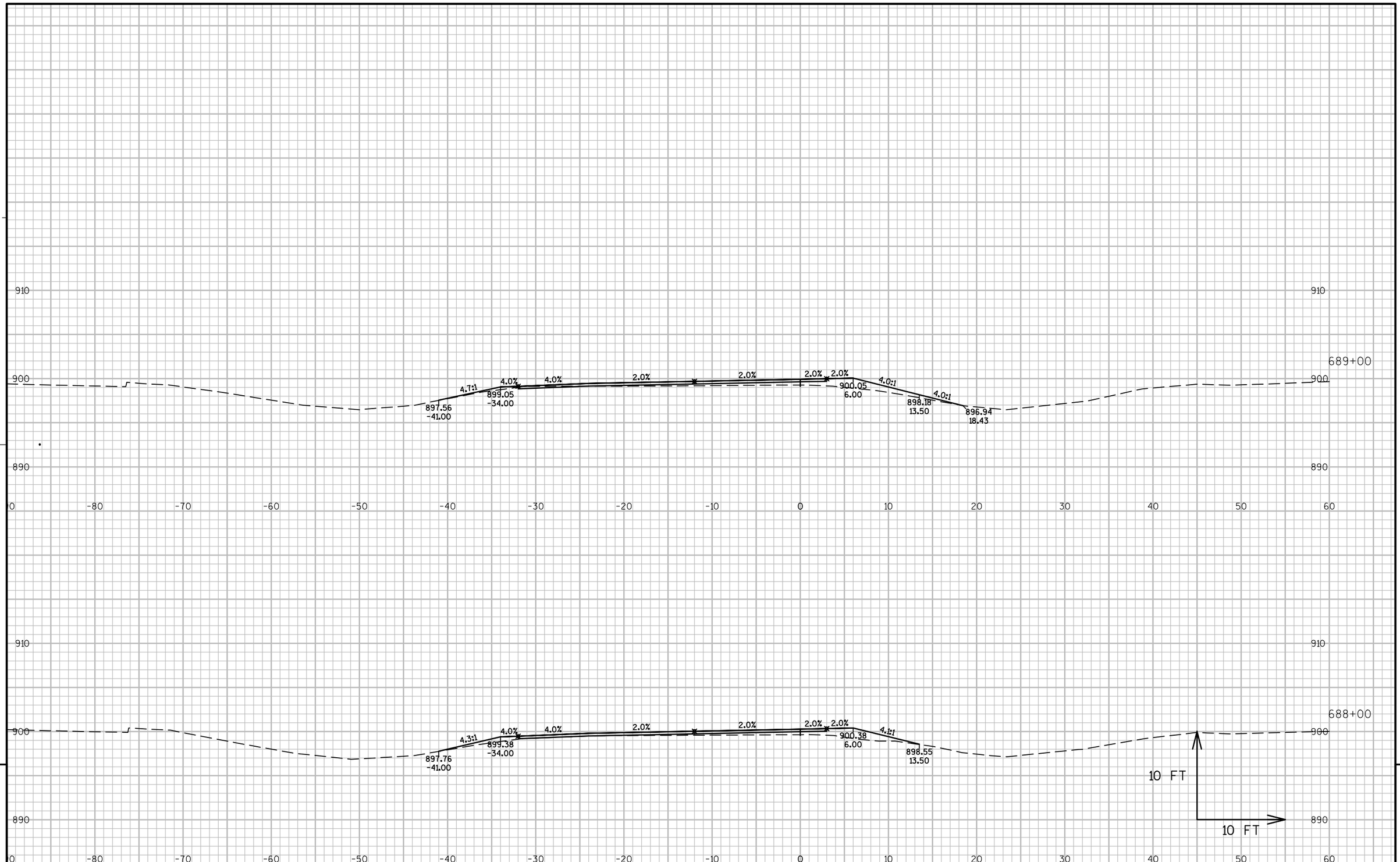


PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	CROSS SECTIONS: USH 51 SOUTHBOUND	SHEET 204 E

FILE NAME : P:\90S\93\00093254\CADD\DESIGN\XSECTIONS\US51_SB_XS.DWG
LAYOUT NAME - 090219 - XS

PLOT DATE : 5/26/2016 1:42 PM PLOT BY : CHASE KIELER PLOT NAME : PLOT SCALE : 1 IN:10 FT

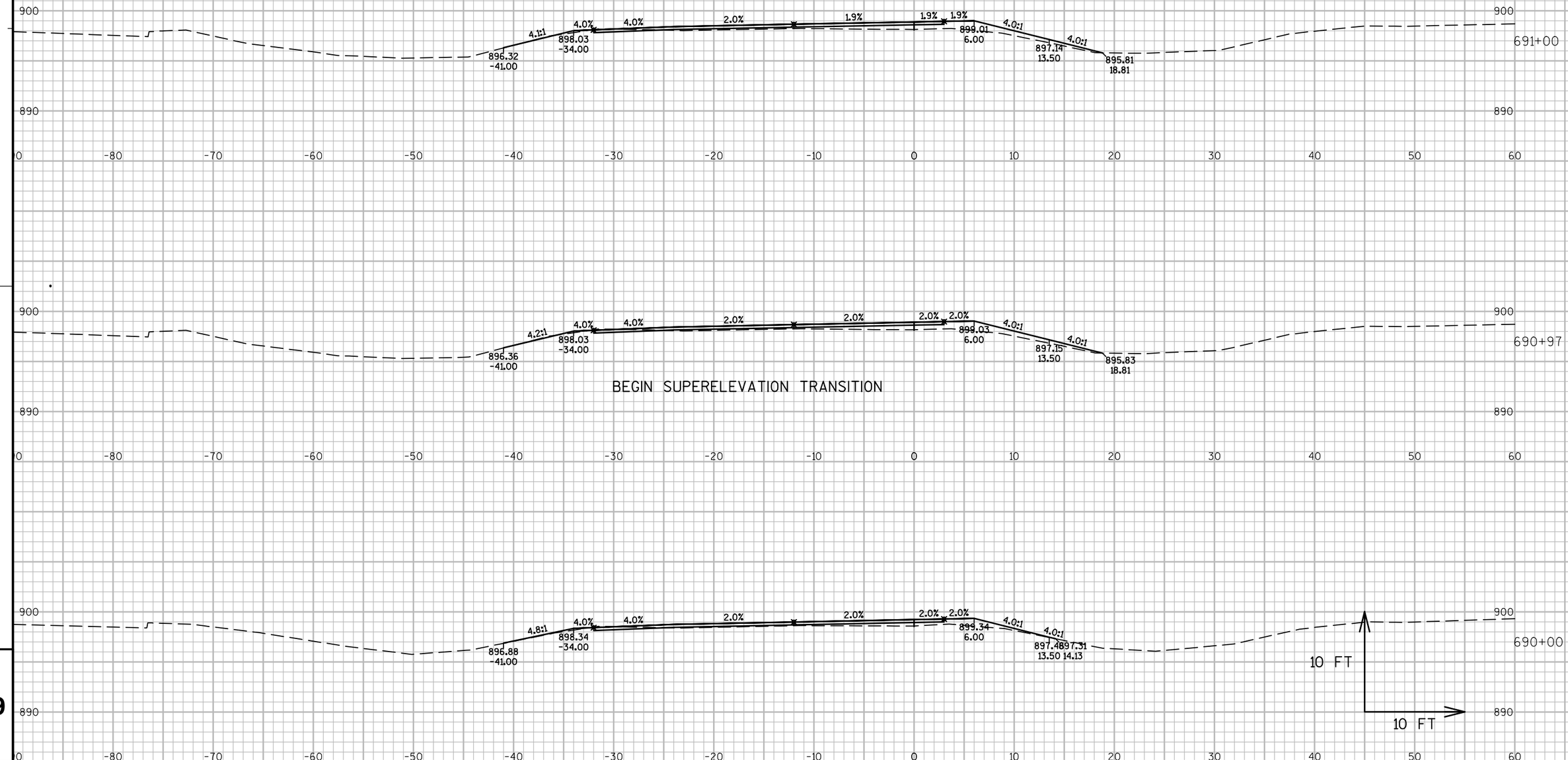
WISDOT/CADDS SHEET 49



PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	CROSS SECTIONS: USH 51 SOUTHBOUND	SHEET 205	E

FILE NAME : P:\90S\93\00093254\CADD\DESIGN\XSECTIONS\US51_SB_XS.DWG
LAYOUT NAME - 090221 - XS

PLOT DATE : 5/26/2016 1:42 PM PLOT BY : CHASE KIELER PLOT NAME : PLOT SCALE : 1 IN:10 FT

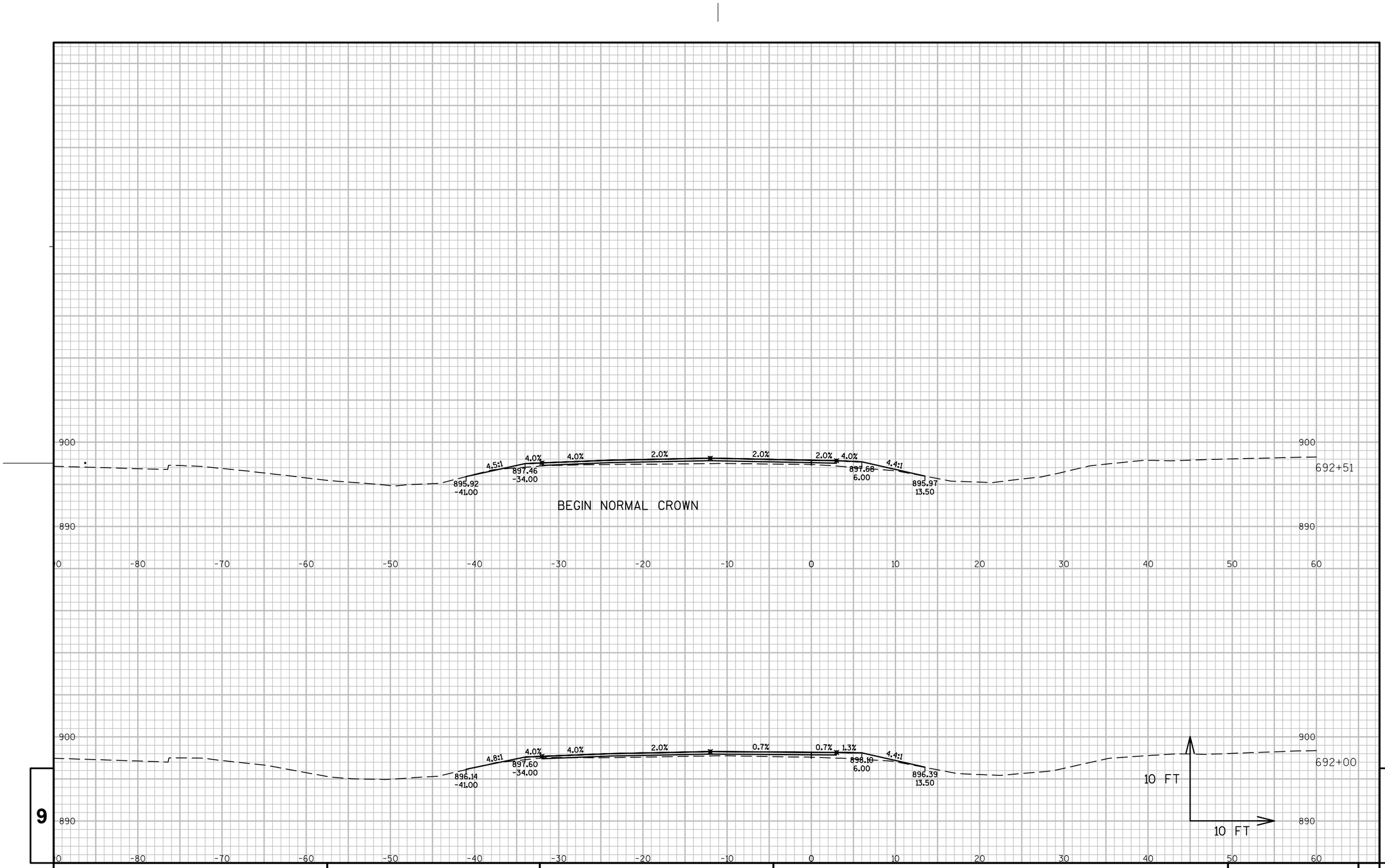


PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	CROSS SECTIONS: USH 51 SOUTHBOUND	SHEET 206	E

FILE NAME : P:\90S\93\00093254\CADD\DESIGN\XSECTIONS\US51_SB_XS.DWG
LAYOUT NAME - 090222 - XS

PLOT DATE : 5/26/2016 1:42 PM PLOT BY : CHASE KIELER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

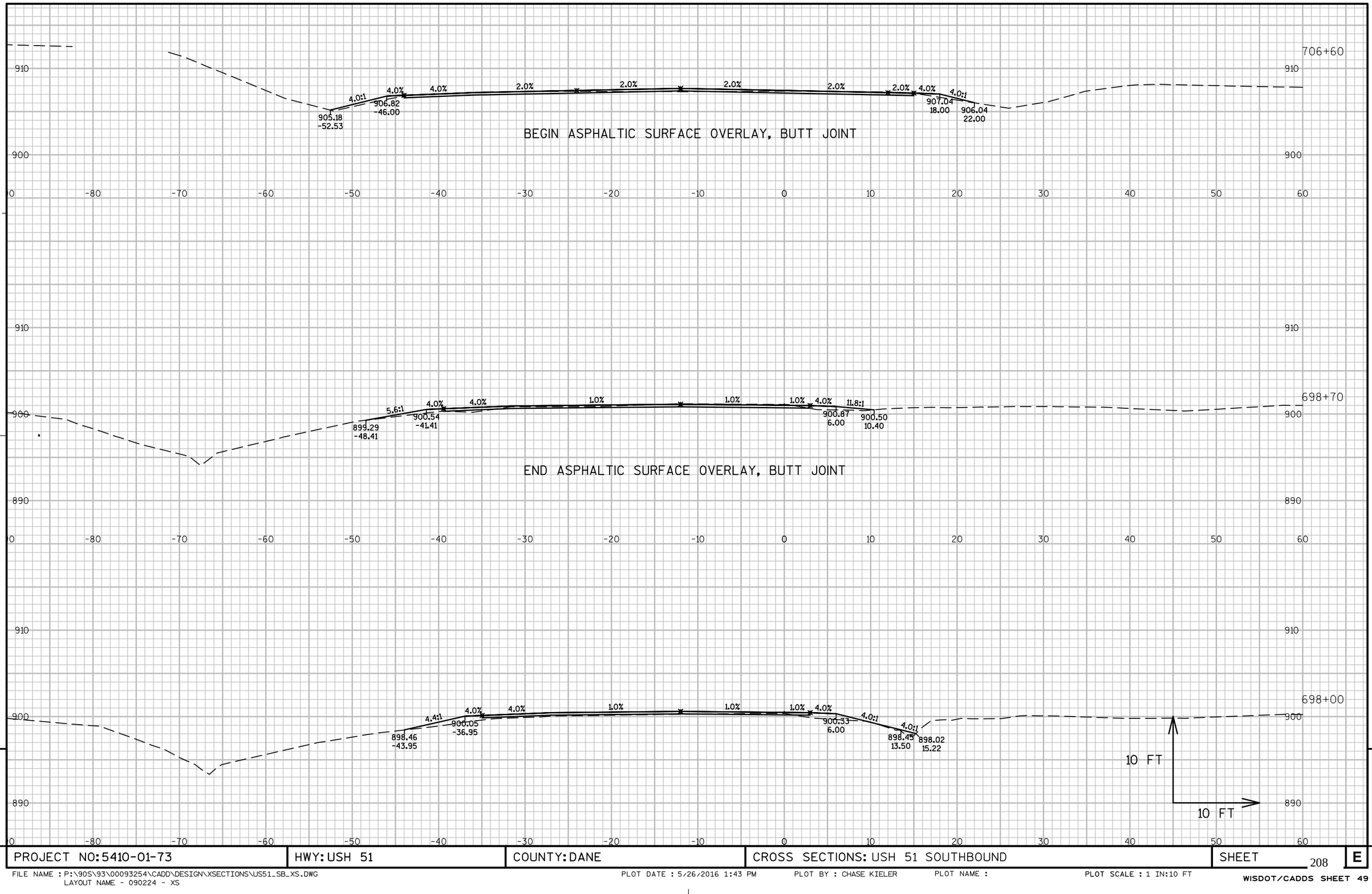


PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	CROSS SECTIONS: USH 51 SOUTHBOUND	SHEET 207	E

FILE NAME : P:\90S\93\00093254\CADD\DESIGN\XSECTIONS\US51_SB_XS.DWG
LAYOUT NAME - 090223 - XS

PLOT DATE : 5/26/2016 1:42 PM PLOT BY : CHASE KIELER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



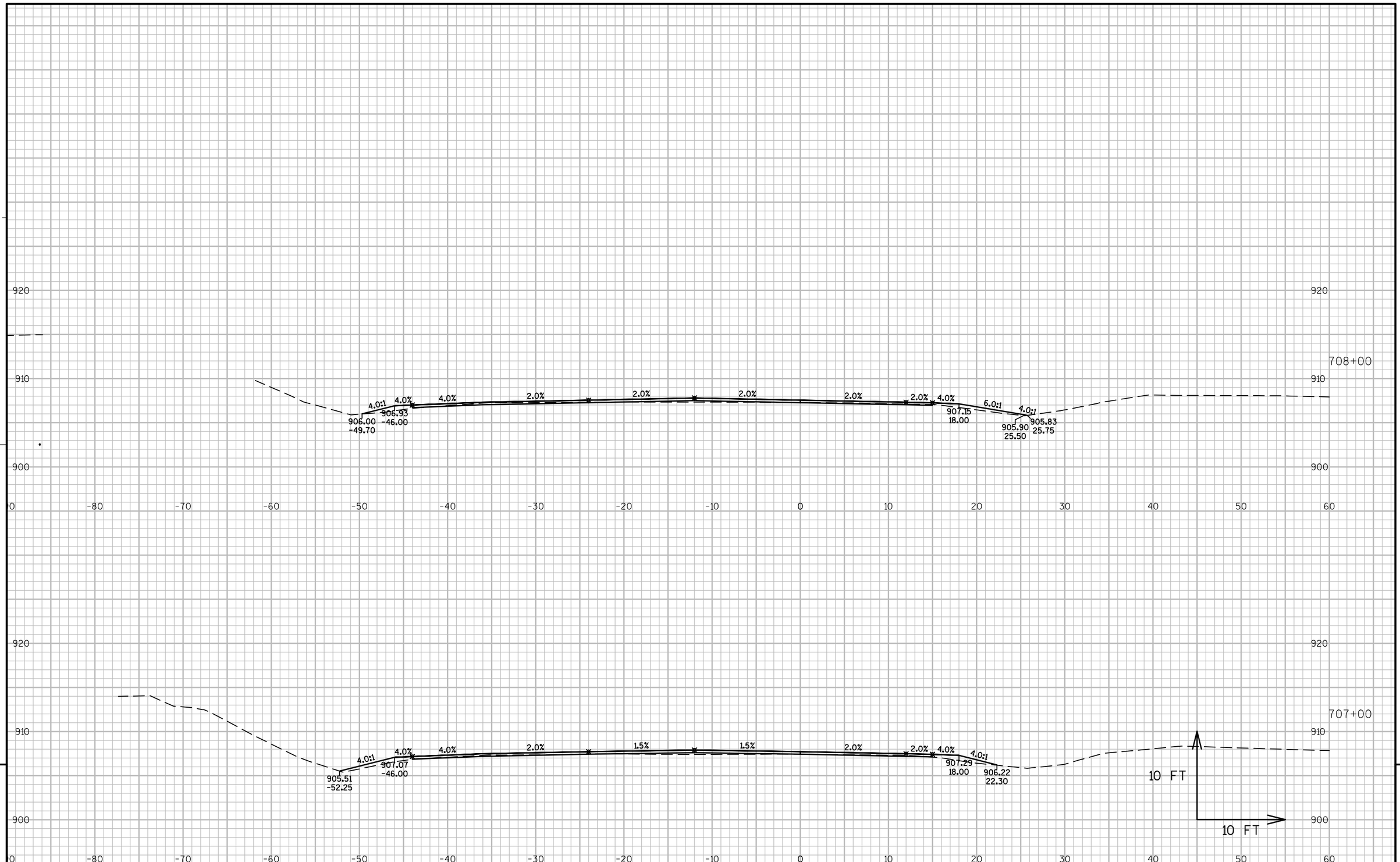
9

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PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	CROSS SECTIONS: USH 51 SOUTHBOUND	SHEET 208	E

FILE NAME : P:\90S\93\00093254\CADD\DESIGN\XSECTIONS\US51_SB_XS.DWG
LAYOUT NAME - 090224 - XS

PLOT DATE : 5/26/2016 1:43 PM PLOT BY : CHASE KIELER PLOT NAME : PLOT SCALE : 1 IN:10 FT



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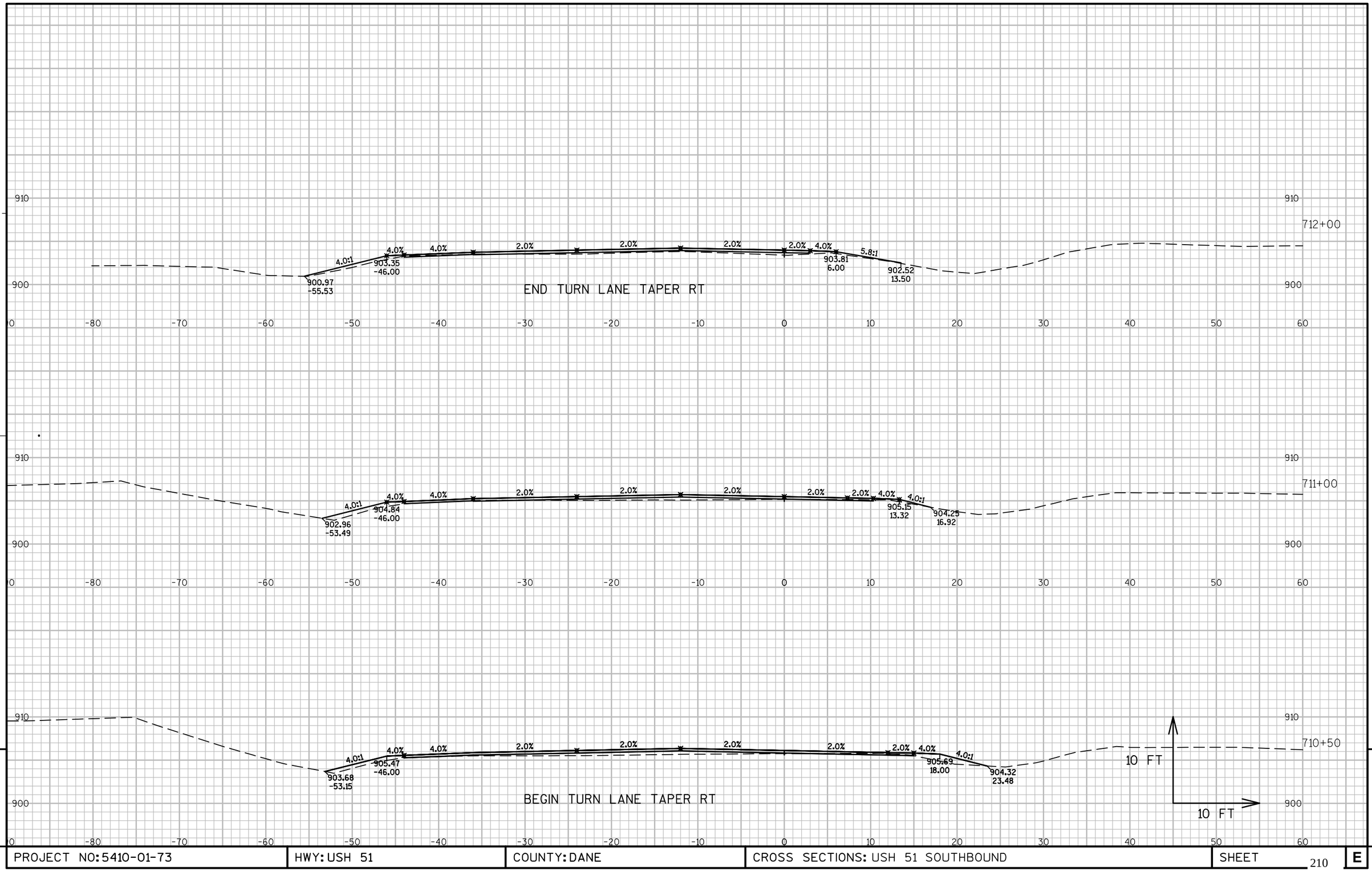
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PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	CROSS SECTIONS: USH 51 SOUTHBOUND	SHEET 209	E

FILE NAME : P:\90S\93\00093254\CADD\DESIGN\XSECTIONS\US51_SB_XS.DWG
LAYOUT NAME - 090225 - XS

PLOT DATE : 5/26/2016 1:43 PM PLOT BY : CHASE KIELER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

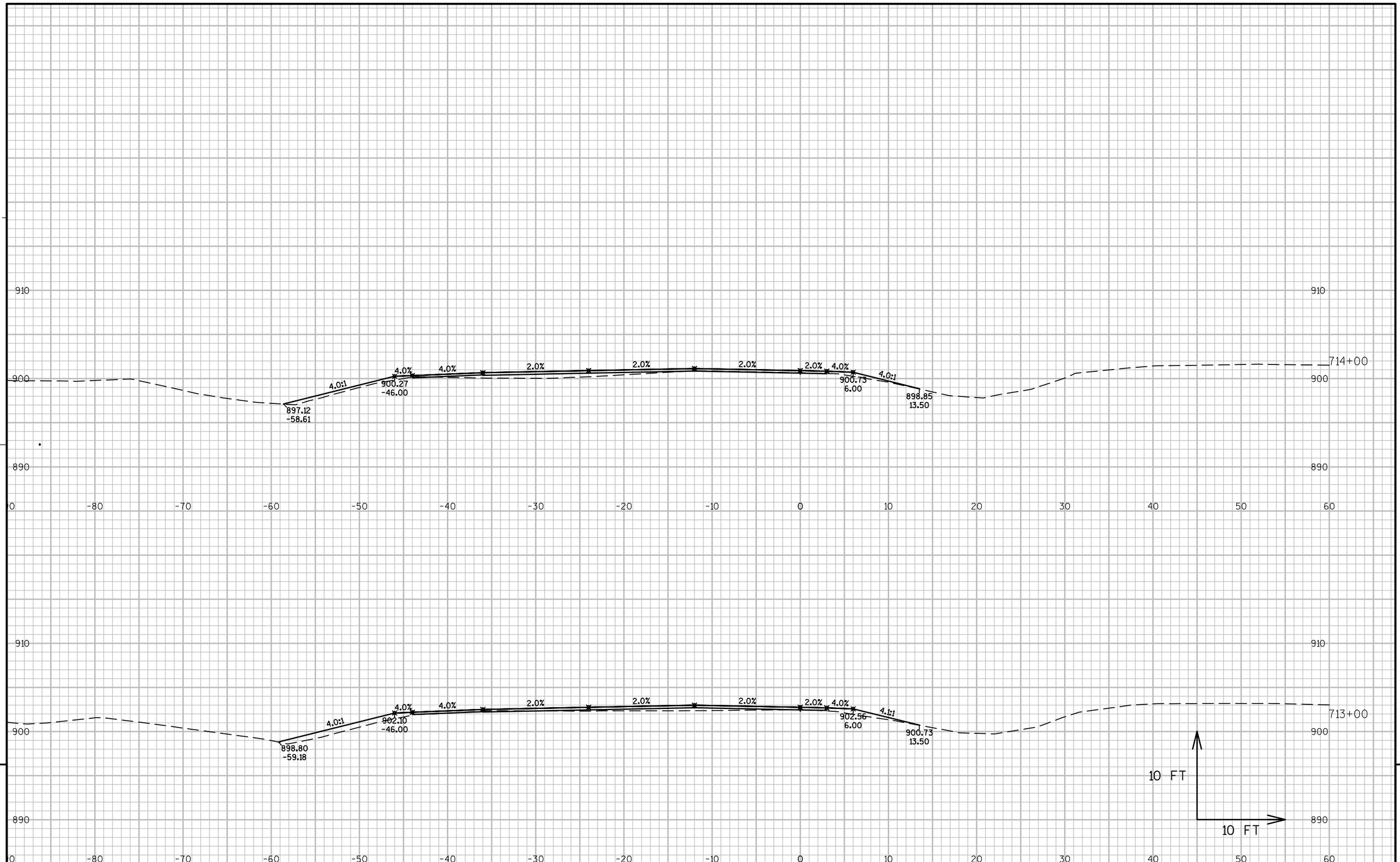


PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	CROSS SECTIONS: USH 51 SOUTHBOUND	SHEET 210	E

FILE NAME : P:\90S\93\00093254\CADD\DESIGN\XSECTIONS\US51_SB_XS.DWG
LAYOUT NAME - 090226 - XS

PLOT DATE : 5/26/2016 1:43 PM PLOT BY : CHASE KIELER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

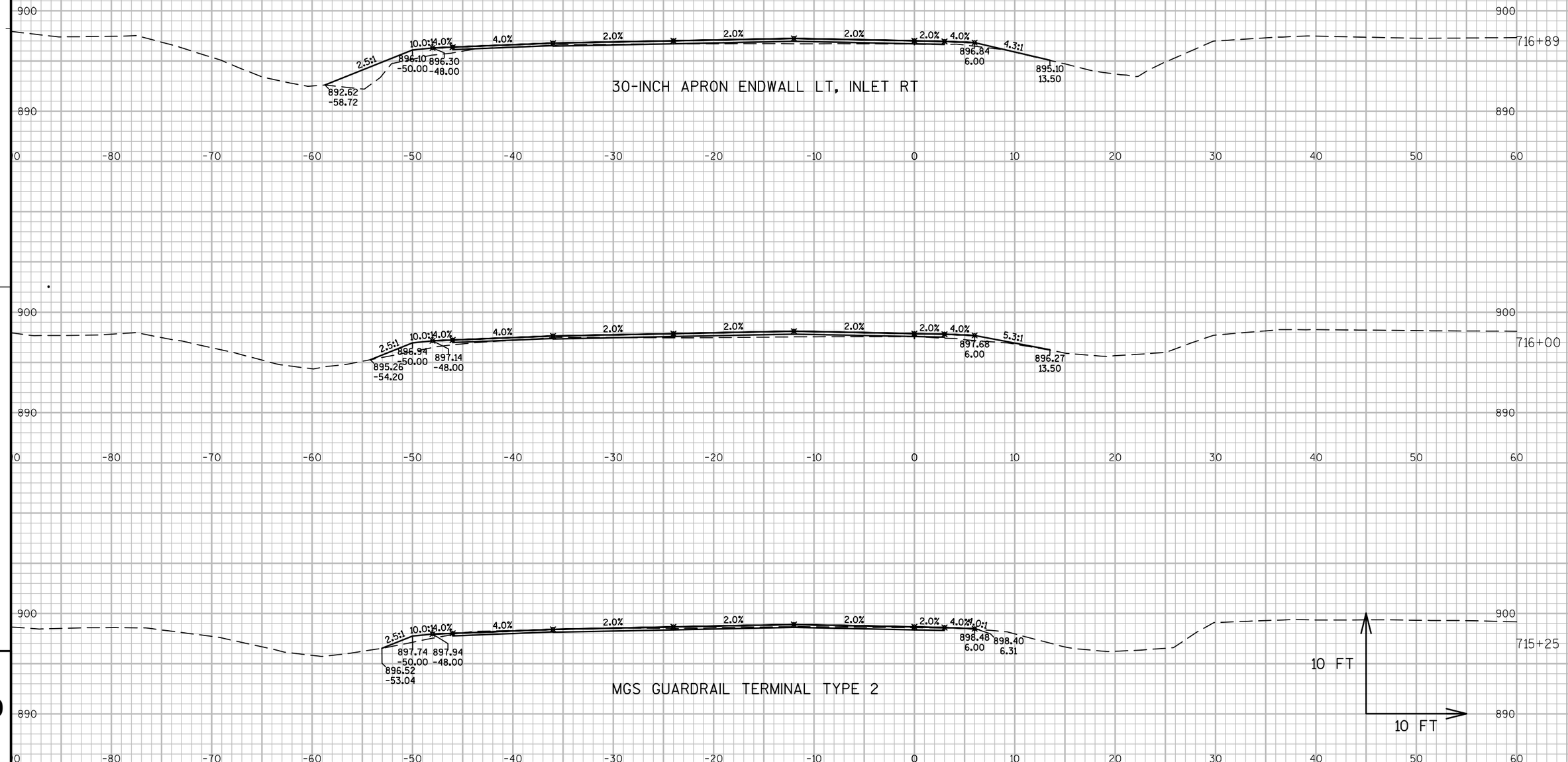
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PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	CROSS SECTIONS: USH 51 SOUTHBOUND	SHEET 211	E

FILE NAME : P:\90S\93\00093254\CADD\DESIGN\XSECTIONS\US51_SB_XS.DWG
LAYOUT NAME - 090227 - XS

PLOT DATE : 5/26/2016 1:43 PM PLOT BY : CHASE KIELER PLOT NAME : PLOT SCALE : 1 IN:10 FT

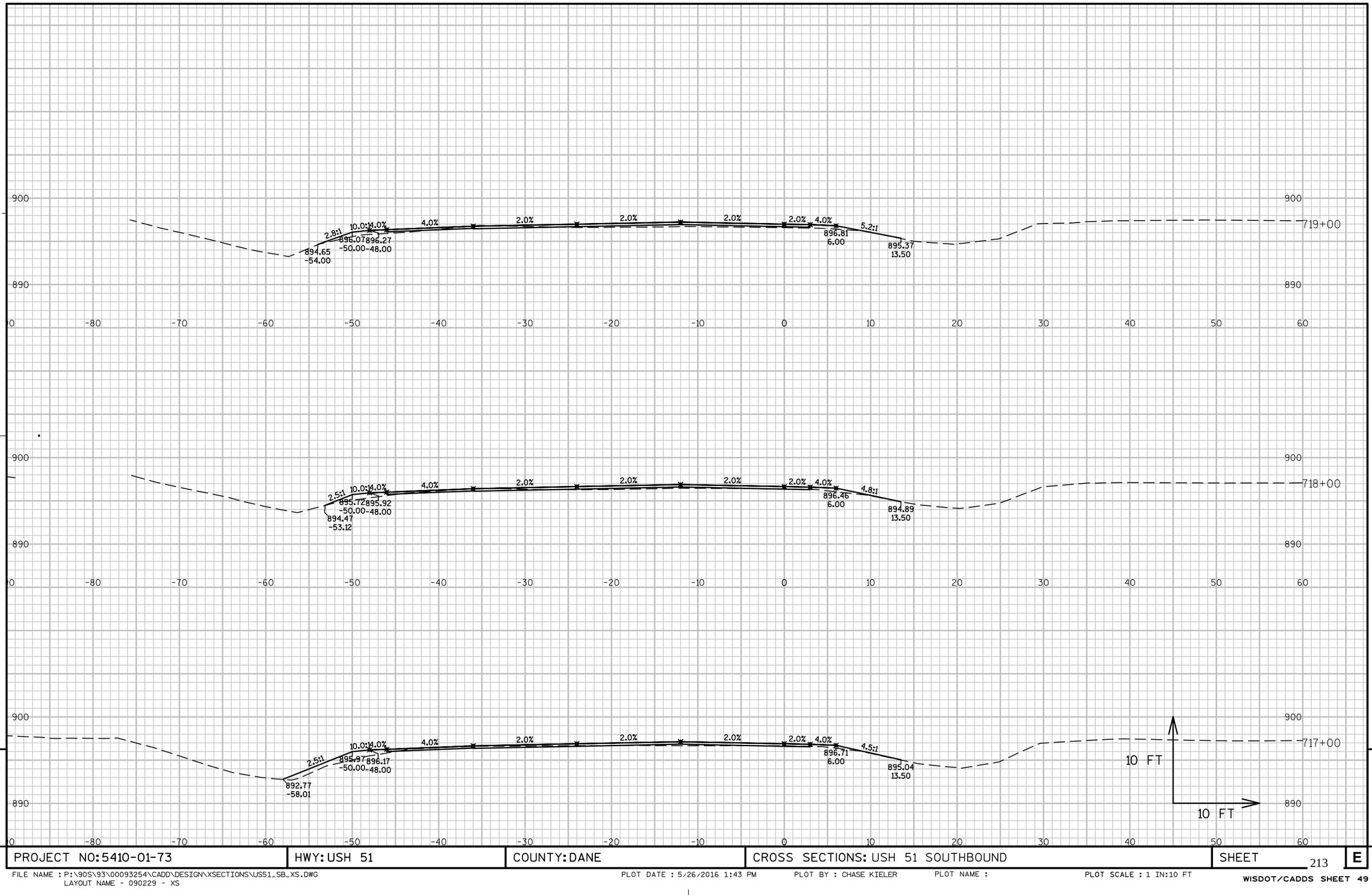
WISDOT/CADDS SHEET 49



PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	CROSS SECTIONS: USH 51 SOUTHBOUND	SHEET 212	E

FILE NAME : P:\90S\93\00093254\CADD\DESIGN\XSECTIONS\US51_SB_XS.DWG
LAYOUT NAME - 090228 - XS

PLOT DATE : 5/26/2016 1:43 PM PLOT BY : CHASE KIELER PLOT NAME : PLOT SCALE : 1 IN:10 FT

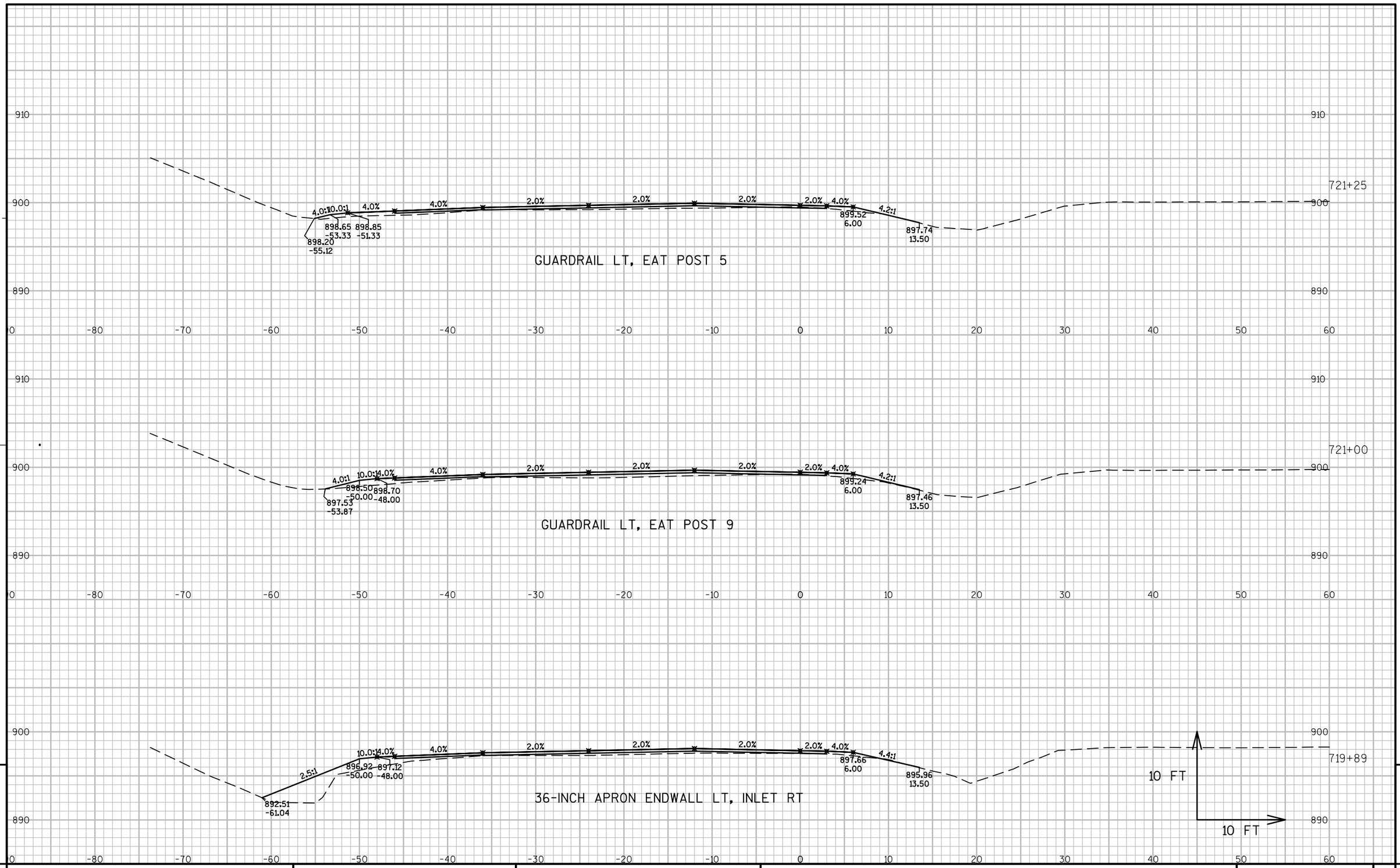


PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	CROSS SECTIONS: USH 51 SOUTHBOUND	SHEET 213	E

FILE NAME : P:\90S\93\00093254\CADD\DESIGN\XSECTIONS\US51_SB_XS.DWG
LAYOUT NAME - 090229 - XS

PLOT DATE : 5/26/2016 1:43 PM PLOT BY : CHASE KIELER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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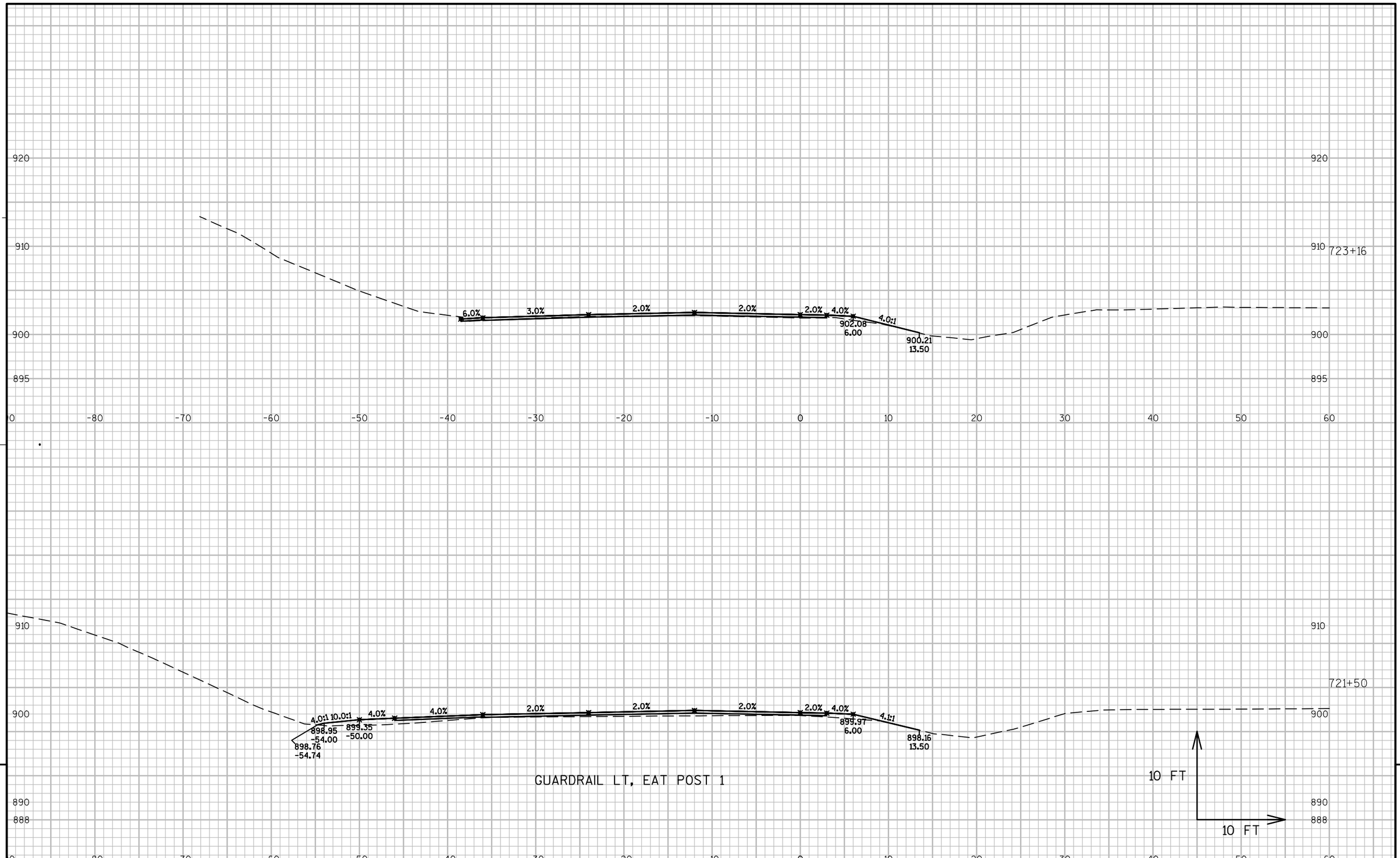
PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	CROSS SECTIONS: USH 51 SOUTHBOUND	SHEET 214	E

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FILE NAME : P:\90S\93\00093254\CADD\DESIGN\XSECTIONS\US51_SB_XS.DWG
LAYOUT NAME - 090230 - XS

PLOT DATE : 5/26/2016 1:44 PM PLOT BY : CHASE KIELER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



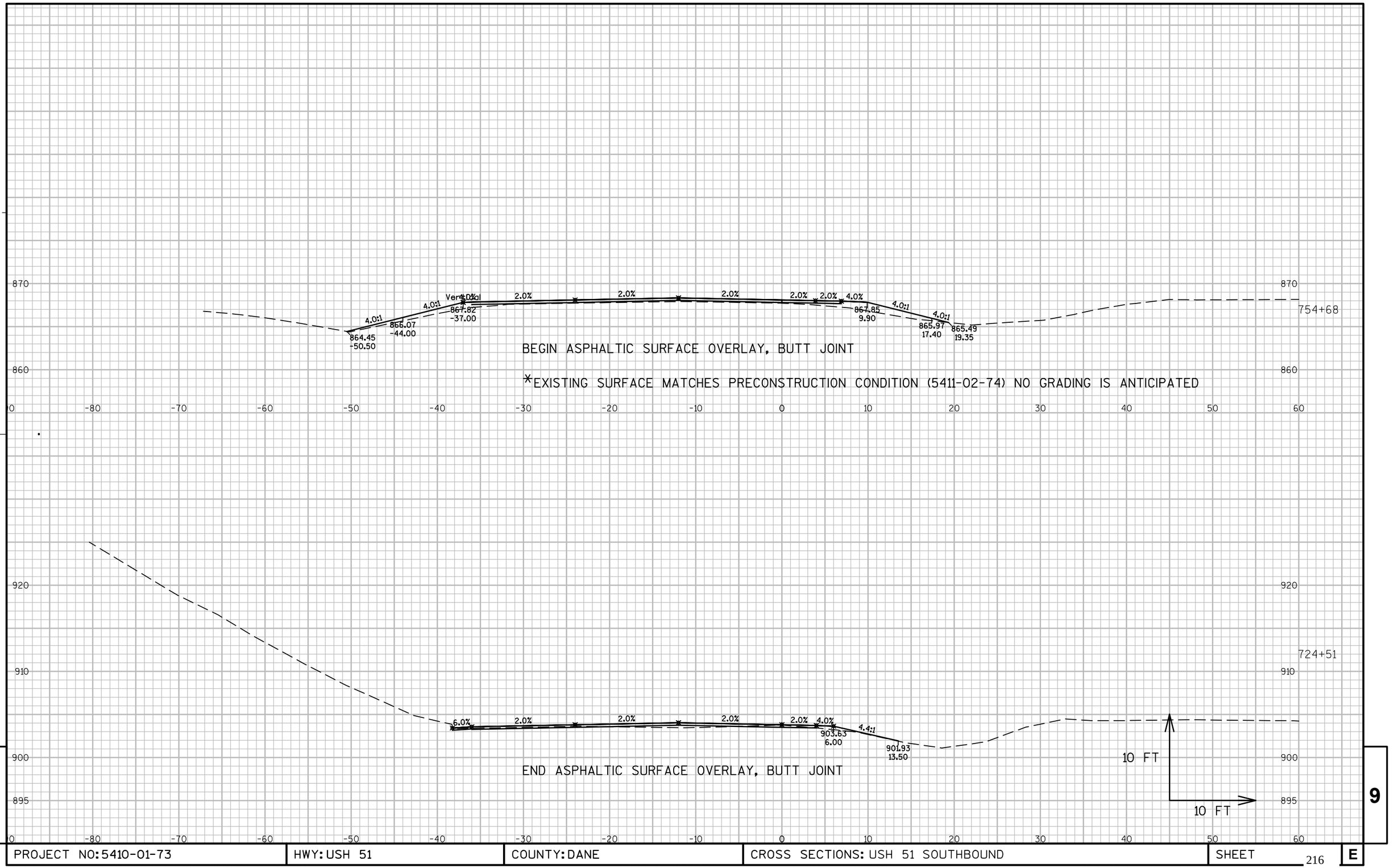
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PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	CROSS SECTIONS: USH 51 SOUTHBOUND	SHEET 215	E

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LAYOUT NAME - 090231 - XS

PLOT DATE : 5/26/2016 1:44 PM PLOT BY : CHASE KIELER PLOT NAME : PLOT SCALE : 1 IN:10 FT



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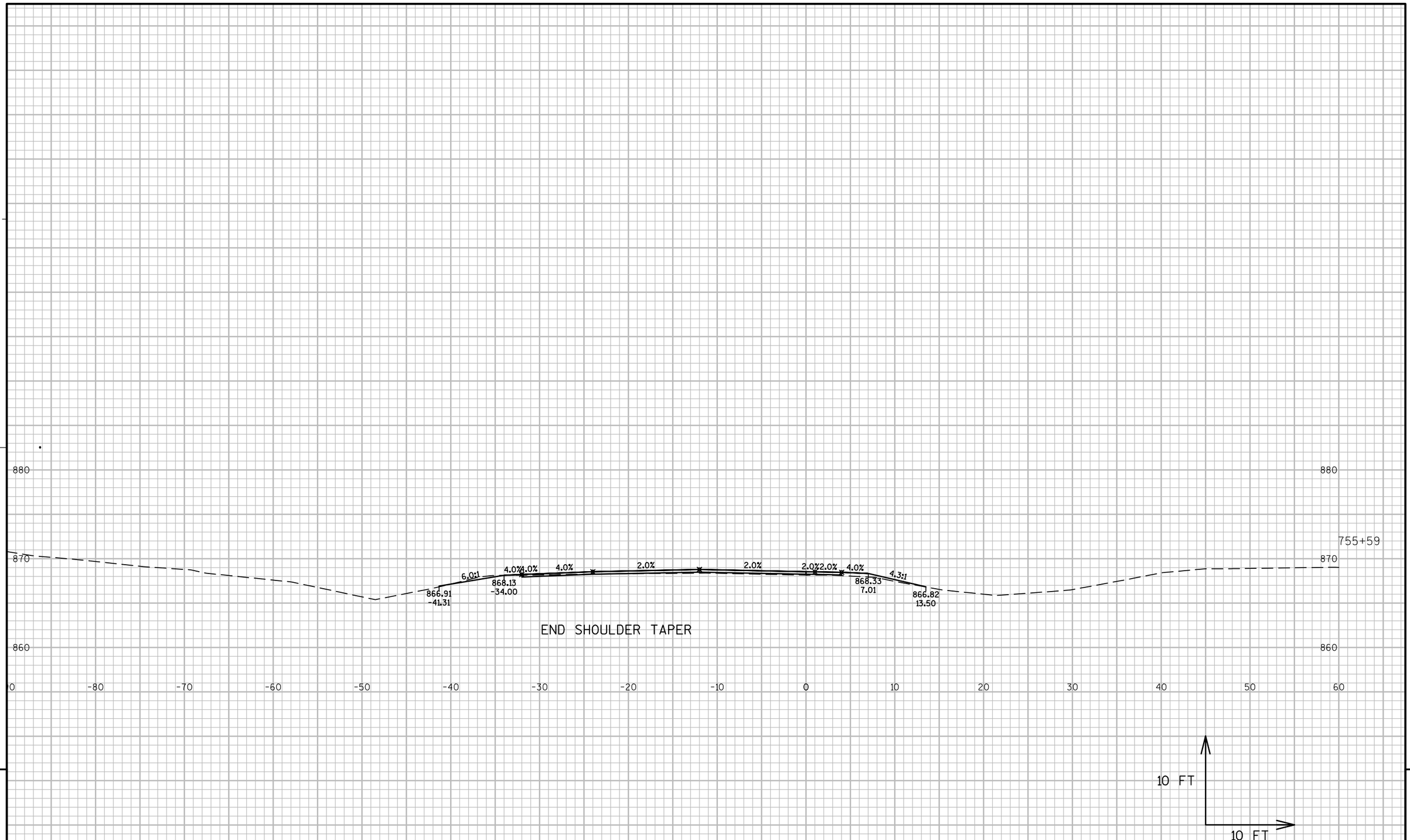
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PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	CROSS SECTIONS: USH 51 SOUTHBOUND	SHEET 216	E

FILE NAME : P:\90S\93\00093254\CADD\DESIGN\XSECTIONS\US51_SB_XS.DWG
LAYOUT NAME - 090232 - XS

PLOT DATE : 5/26/2016 1:44 PM PLOT BY : CHASE KIELER PLOT NAME : PLOT SCALE : 1 IN:10 FT

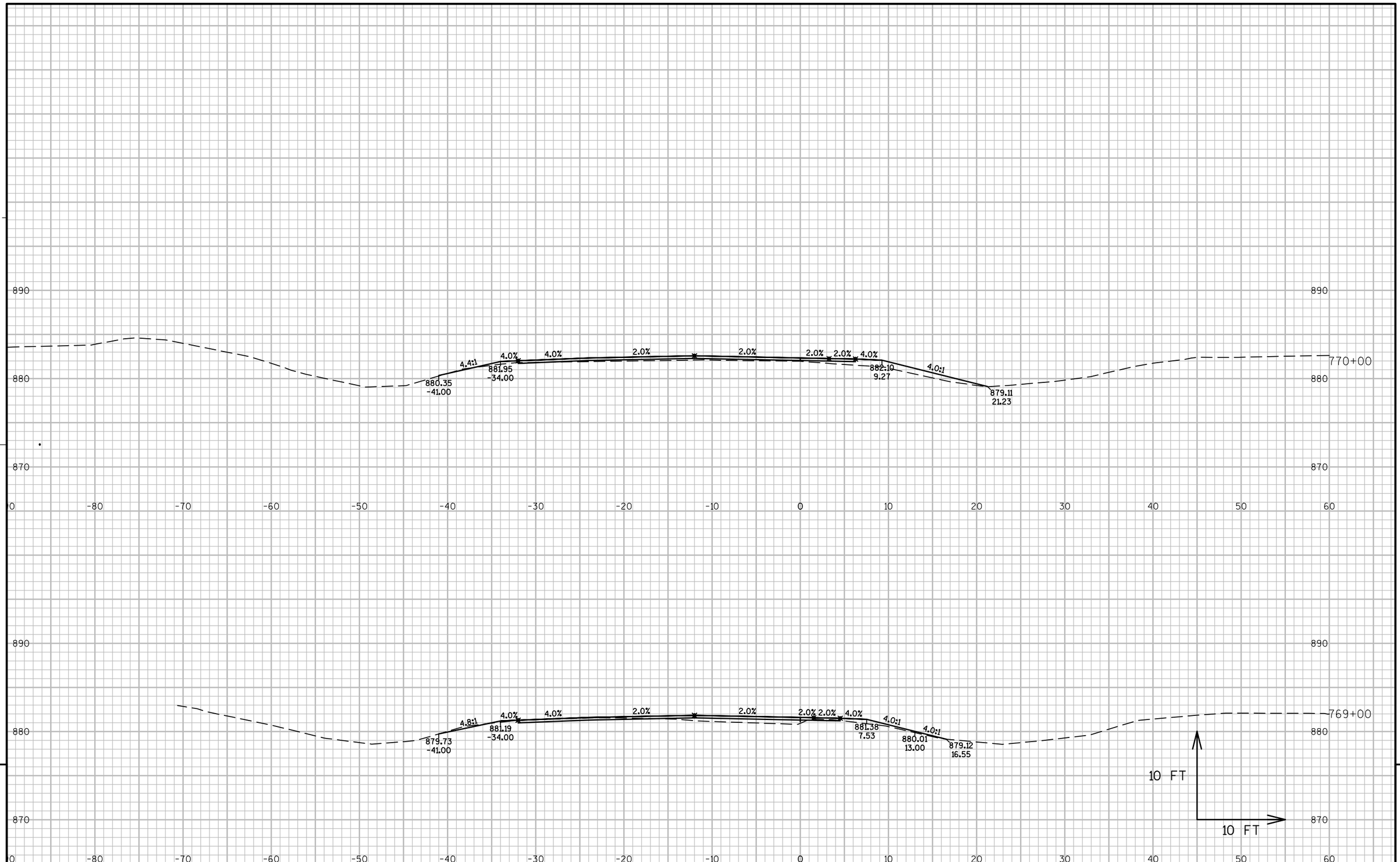
WISDOT/CADDS SHEET 49



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PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	CROSS SECTIONS: USH 51 SOUTHBOUND	SHEET 217	E



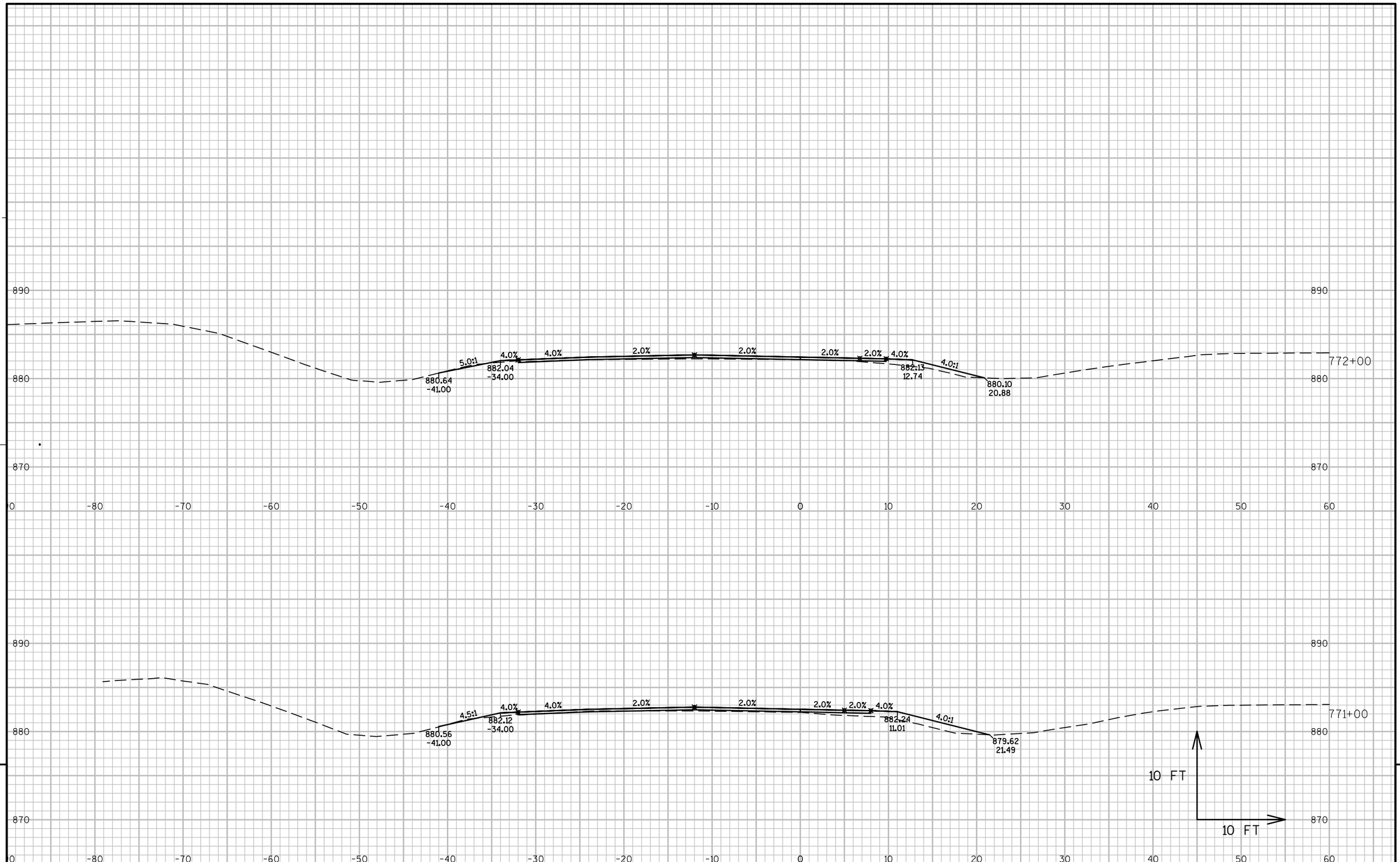
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PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	CROSS SECTIONS: USH 51 SOUTHBOUND	SHEET 218	E

FILE NAME : P:\90S\93\00093254\CADD\DESIGN\XSECTIONS\US51_SB_XS.DWG
LAYOUT NAME - 090235 - XS

PLOT DATE : 5/26/2016 1:44 PM PLOT BY : CHASE KIELER PLOT NAME : PLOT SCALE : 1 IN:10 FT



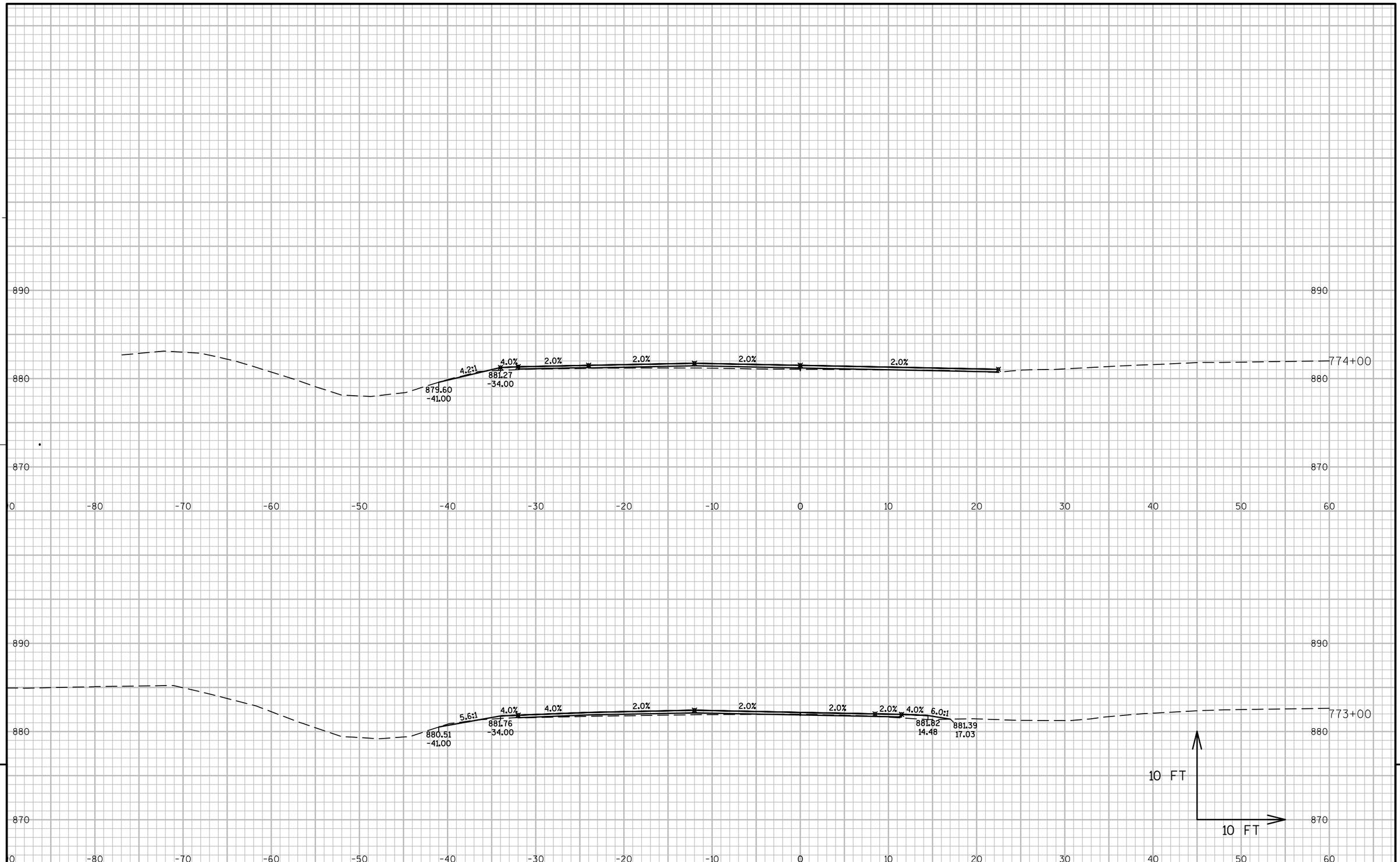
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PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	CROSS SECTIONS: USH 51 SOUTHBOUND	SHEET 219	E

FILE NAME : P:\90S\93\00093254\CADD\DESIGN\XSECTIONS\US51_SB_XS.DWG
LAYOUT NAME - 090236 - XS

PLOT DATE : 5/26/2016 1:44 PM PLOT BY : CHASE KIELER PLOT NAME : PLOT SCALE : 1 IN:10 FT



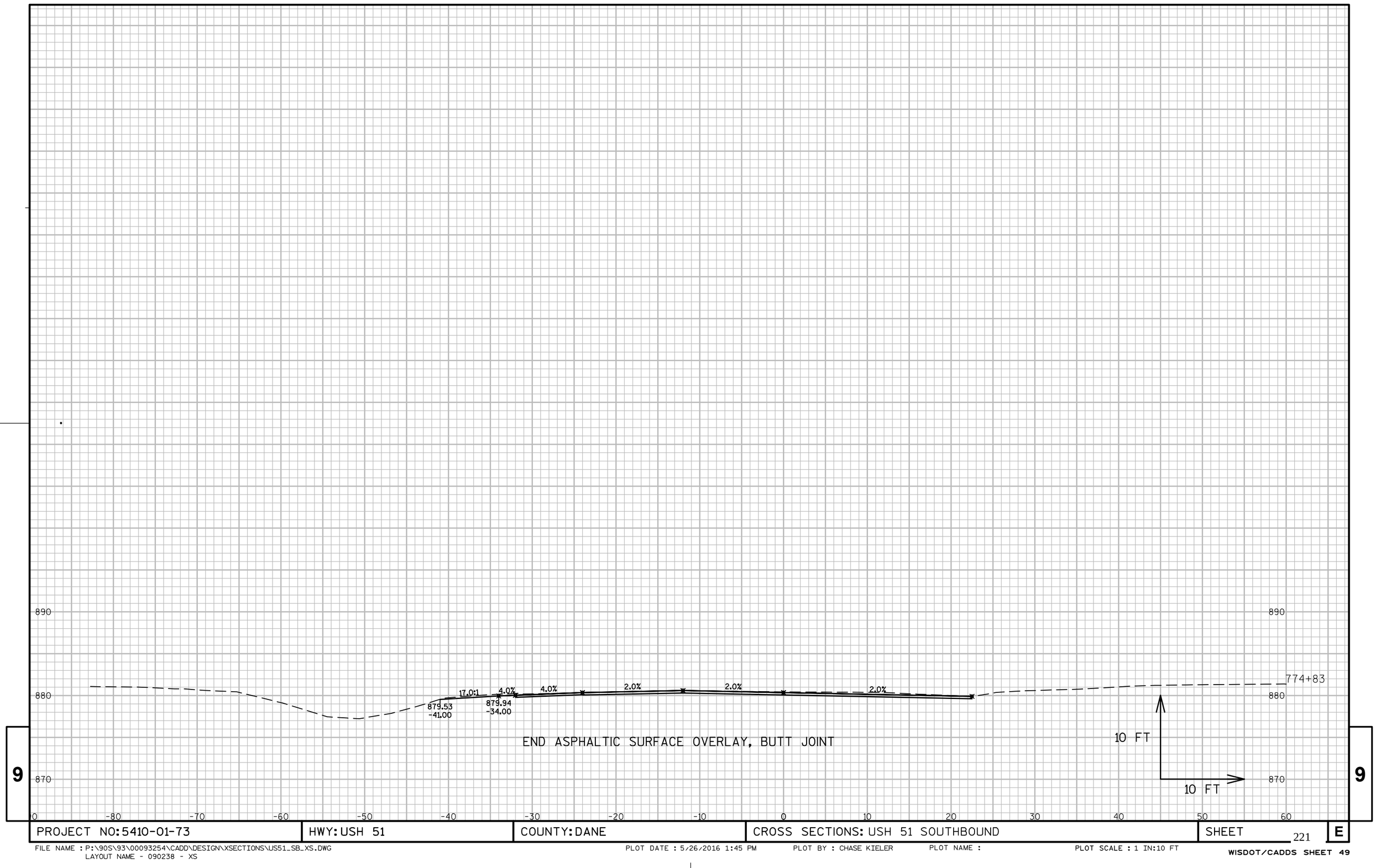
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PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	CROSS SECTIONS: USH 51 SOUTHBOUND	SHEET 220	E

FILE NAME : P:\90S\93\00093254\CADD\DESIGN\XSECTIONS\US51_SB_XS.DWG
LAYOUT NAME - 090237 - XS

PLOT DATE : 5/26/2016 1:45 PM PLOT BY : CHASE KIELER PLOT NAME : PLOT SCALE : 1 IN:10 FT



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PROJECT NO: 5410-01-73	HWY: USH 51	COUNTY: DANE	CROSS SECTIONS: USH 51 SOUTHBOUND	SHEET 221	E

FILE NAME : P:\90S\93\00093254\CADD\DESIGN\XSECTIONS\US51_SB_XS.DWG
LAYOUT NAME - 090238 - XS

PLOT DATE : 5/26/2016 1:45 PM PLOT BY : CHASE KIELER PLOT NAME : PLOT SCALE : 1 IN:10 FT

Wisconsin Department of Transportation

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