

RHI

MAY 2016

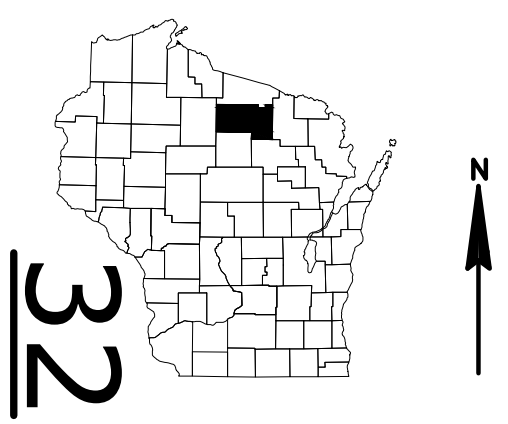
PROJECT ID: 1590-12-62

COUNTY: ONEIDA

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 = 90



DESIGN DESIGNATION

A.A.D.T.	=	7,000
A.A.D.T.	=	9,800
D.H.V.	=	1,970
D.D.	=	61/39
T.	=	9.1%
DESIGN SPEED	=	45 MPH
ESALS	=	3,038,406

CONVENTIONAL SYMBOLS

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

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

RHINELANDER - MONICO

STH 17 SOUTH & CTH G INTERSECTIONS

USH 8

ONEIDA

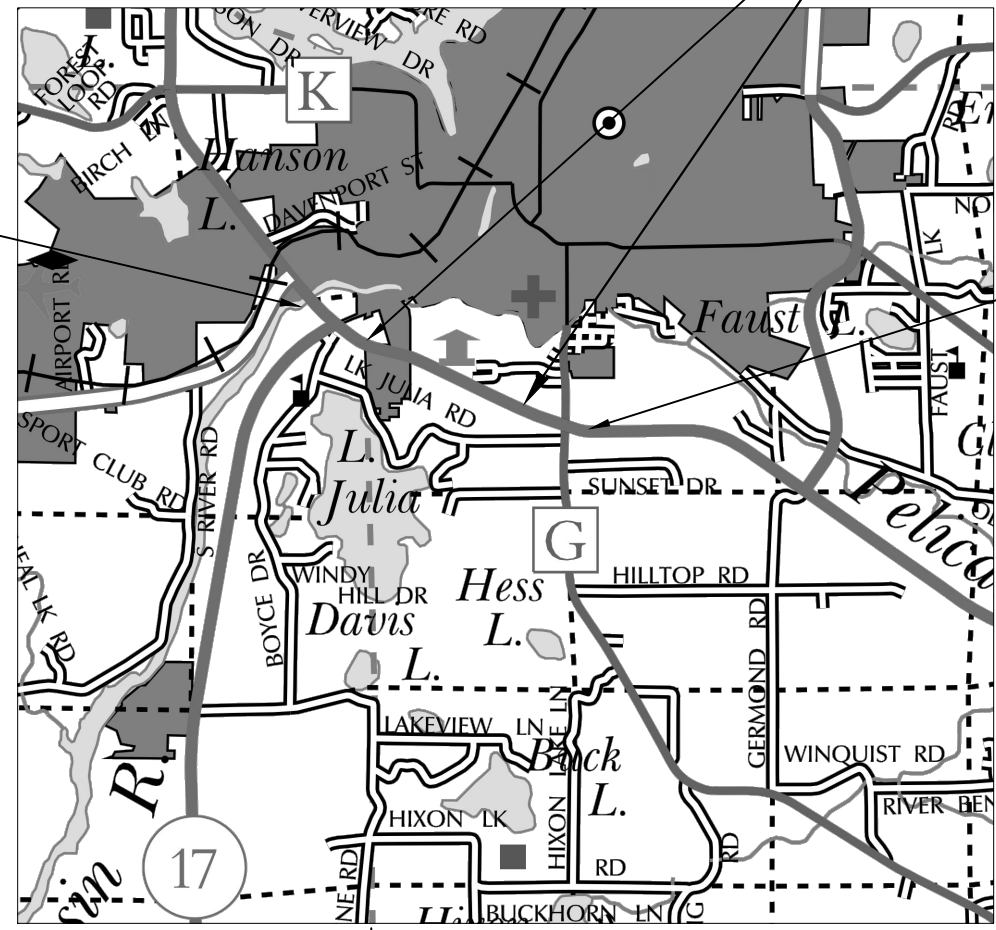
STATE PROJECT NUMBER

1590-12-62

EXCEPTION TO NET CENTERLINE LENGTH
STA 100+00 TO STA 155+00
USH 8

BEGIN PROJECT
STA 85+95
USH 8

END PROJECT
STA 169+00
USH 8



LAYOUT

SCALE 0 1 MILE

TOTAL NET LENGTH OF CENTERLINE = 0.57 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, ONEIDA 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.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	
Designer	KAI KILEN
Project Manager	DAN ERVA
Regional Examiner	CHERYL SIMON
Regional Supervisor	MICHAEL WENDT

APPROVED FOR THE DEPARTMENT

DATE: 1/26/16

(Signature)

E

GENERAL NOTES

CONTACTS

WHEN THE QUANTITY OF THE ITEMS BASE AGGREGATE OR HMA PAVEMENT IS MEASURED FOR PAYMENT BY THE TON OR CUBIC YARD, THE DEPTH OR THICKNESS OF THE LAYERS SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

THE LOCATION OF EXISTING UTILITY FACILITIES LOCATED WITHIN THE PROJECT ARE NOT SHOWN ON THE PLANS.

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

UTILITY CONTACTS:

ATC MANAGEMENT, INC
MIKE OLSEN
801 O'KEEFE RD
PO BOX 6113
DE PERE, WI 54115-6113

CHARTER COMMUNICATION
MARK OLEJNICZAK
821 LINCOLN ST
RHINELANDER, WI 54501
(715) 490-1795

FRONTIER COMMUNICATIONS
STUART NORMAN
521 4TH ST
WAUSAU, WI 54403

NET LEC LLC
DENNIS LAFAVE
450 SECURITY BLVD
PO BOX 19079
GREEN BAY, WI 54307-9079
(920) 619-9774

RHINELANDER PUBLIC WORKS
TIM KINGMAN
135 SOUTH STEVENS ST
RHINELANDER, WI 54501

WISCONSIN PUBLIC SERVICE CORPORATION
LORI BUTRY
700 N ADAMS ST
PO BOX 19001
GREEN BAY, WI 54307-9001
(920) 433-1703

WISCONSIN DNR CONTACT

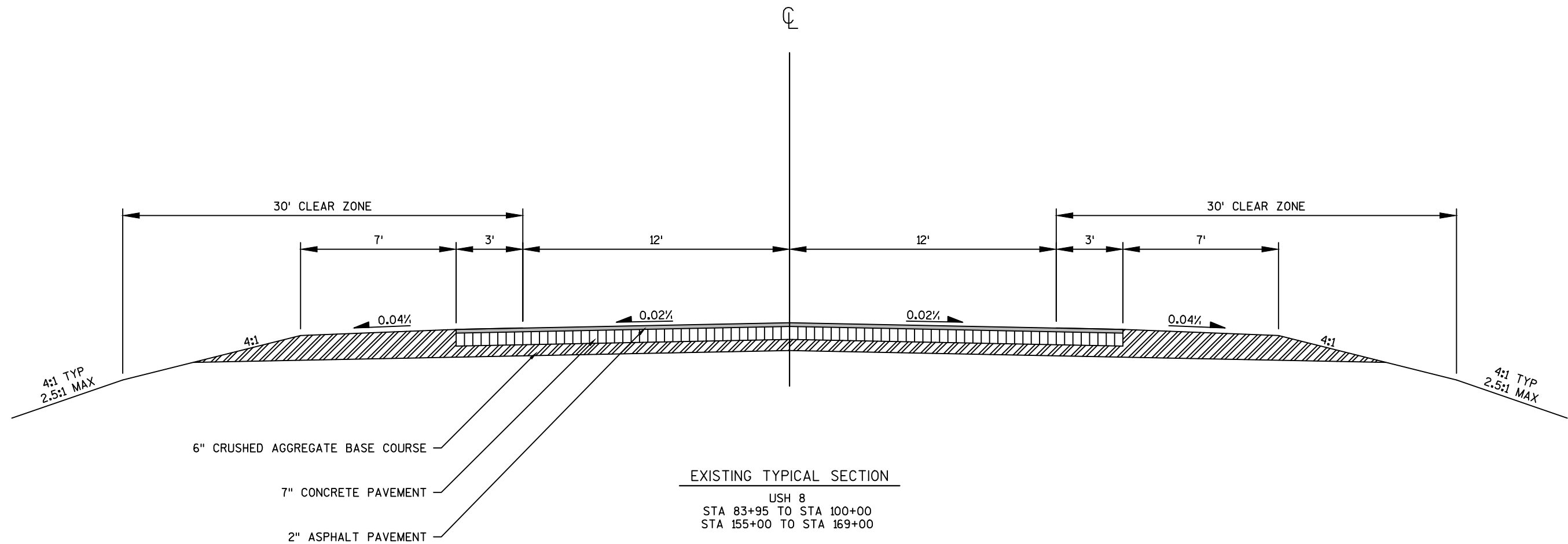
JON SIMONSEN
107 SUTLIFF AVENUE
RHINELANDER, WI 54501
JONATHON.SIMONSEN@WISCONSIN.GOV
715-365-8916

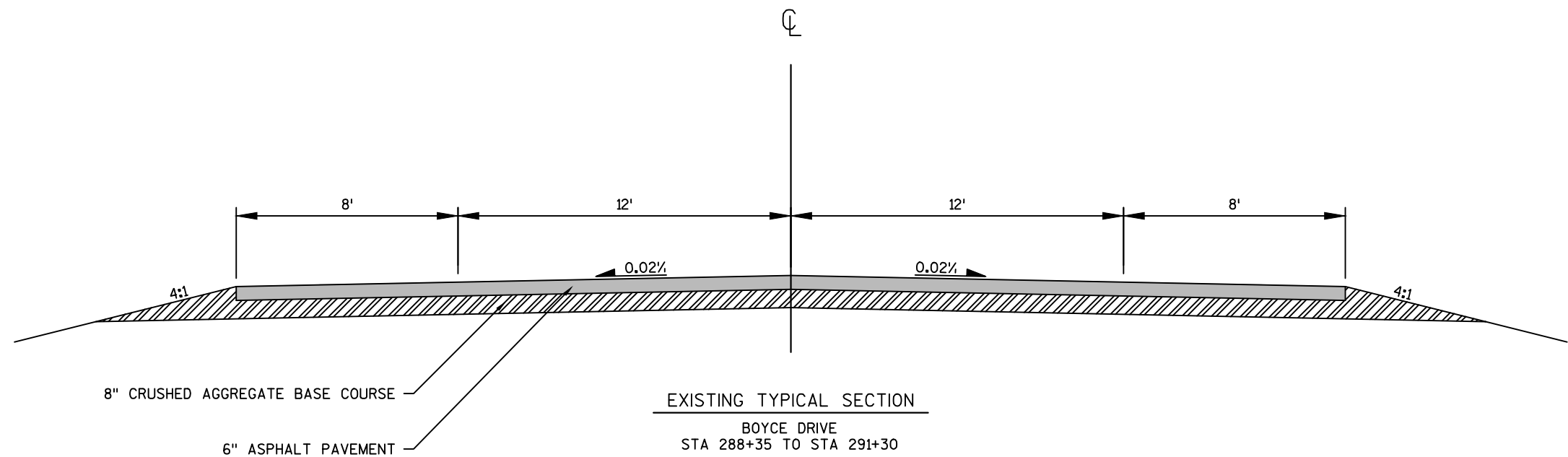
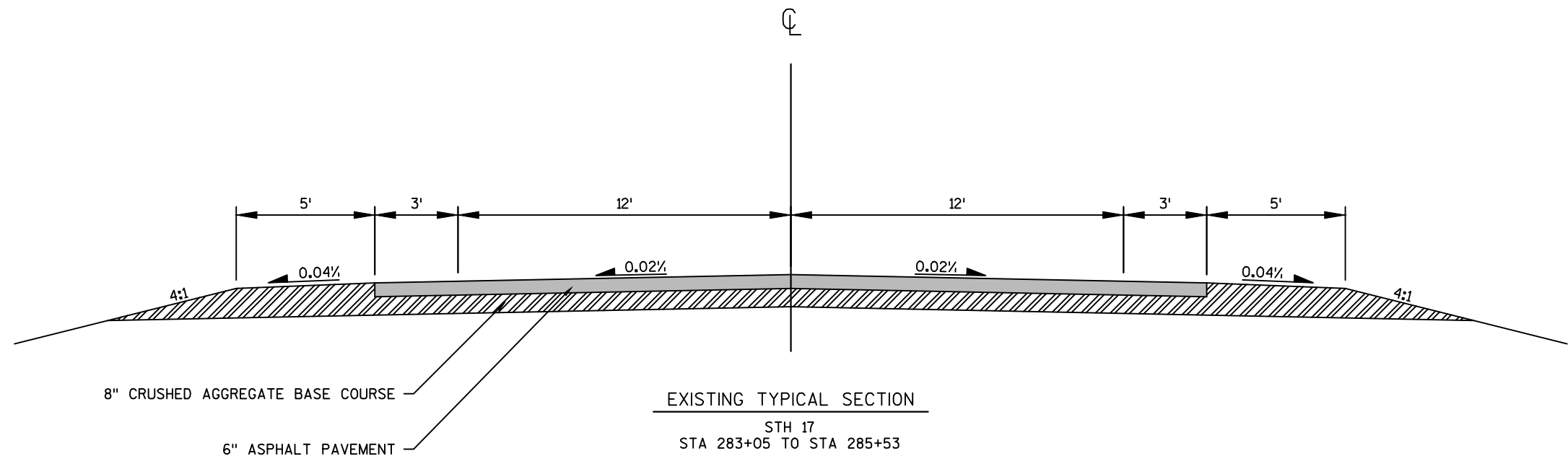


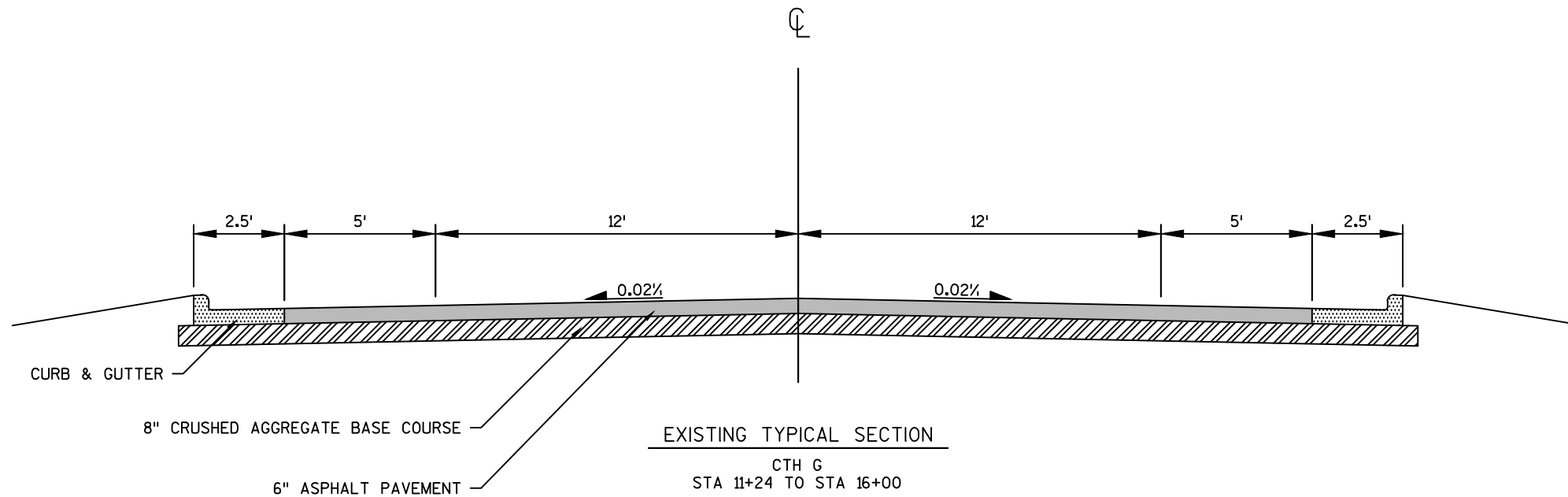
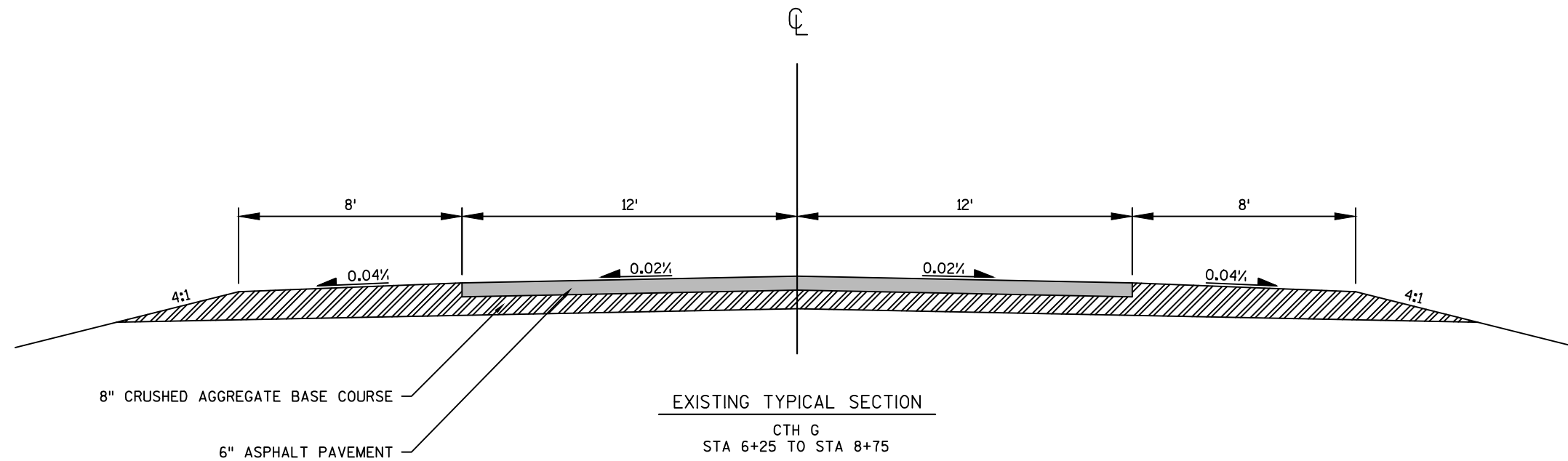
Dial 811 or (800)242-8511

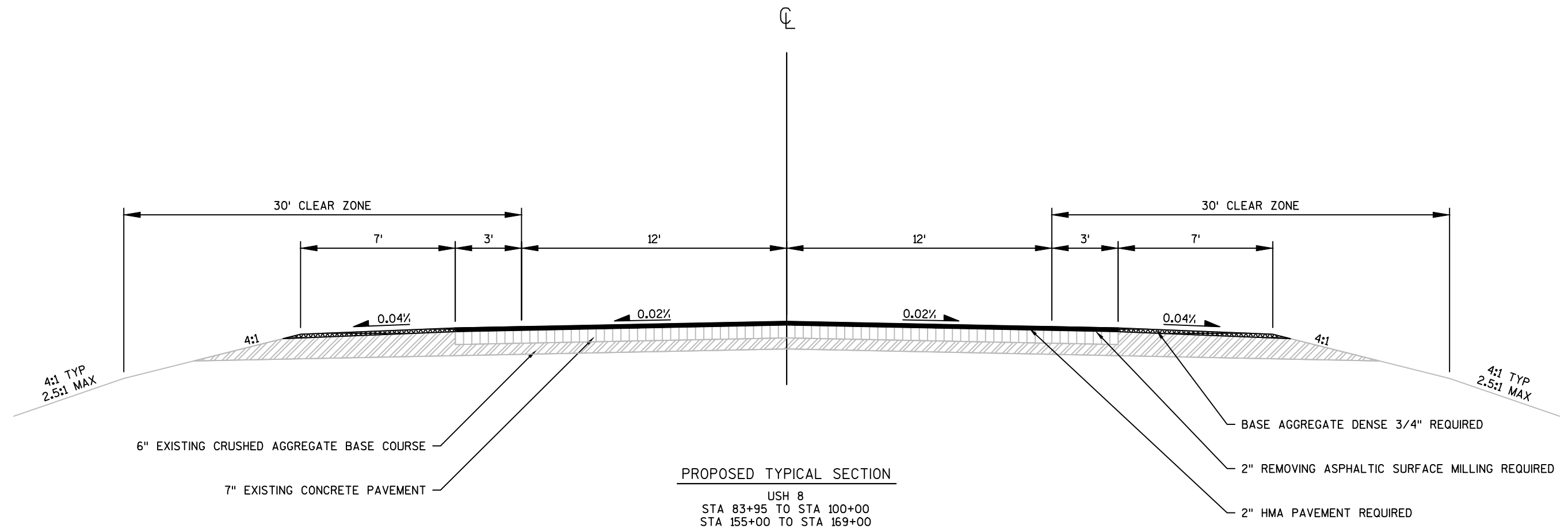
www.DiggersHotline.com

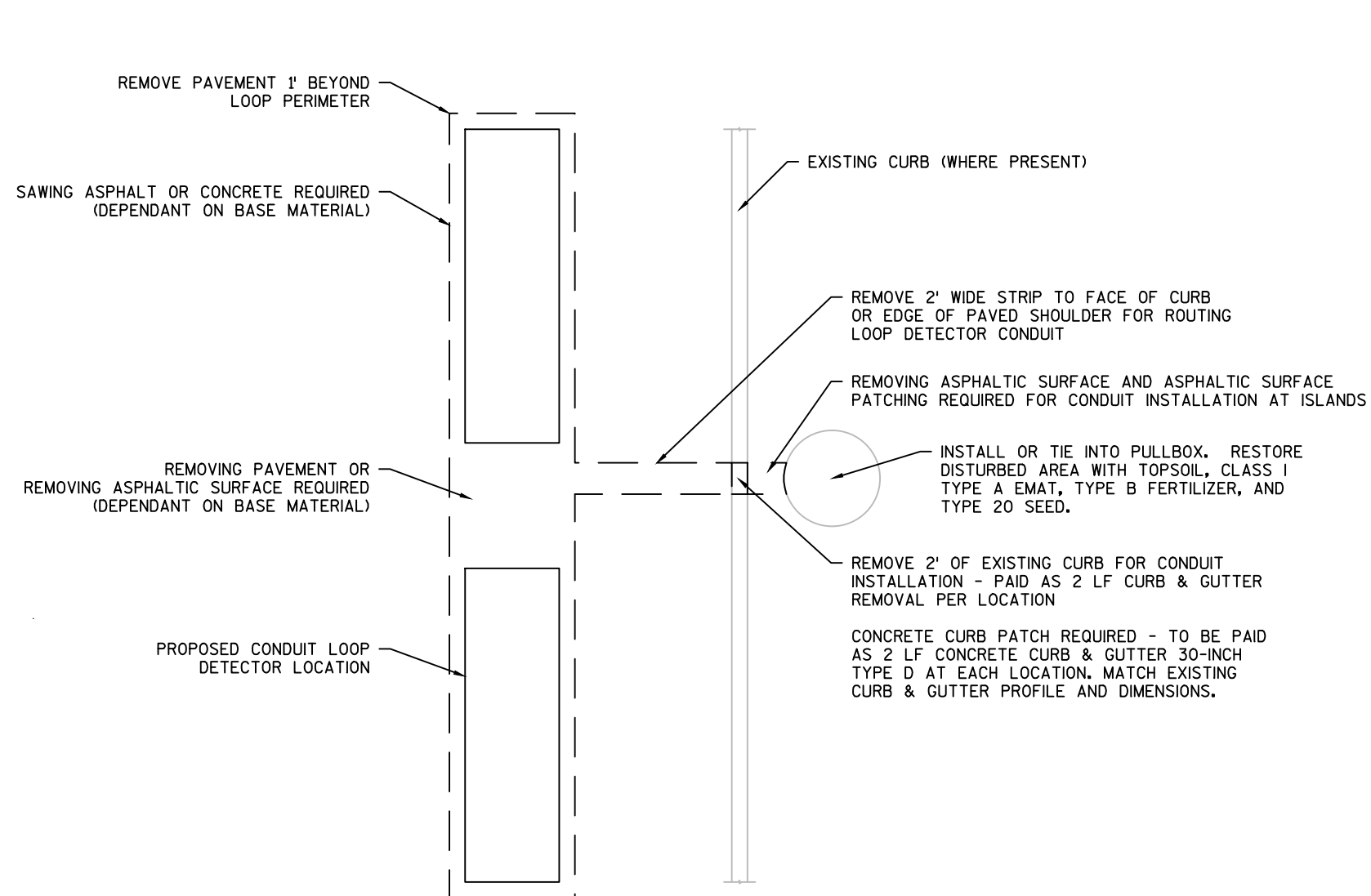




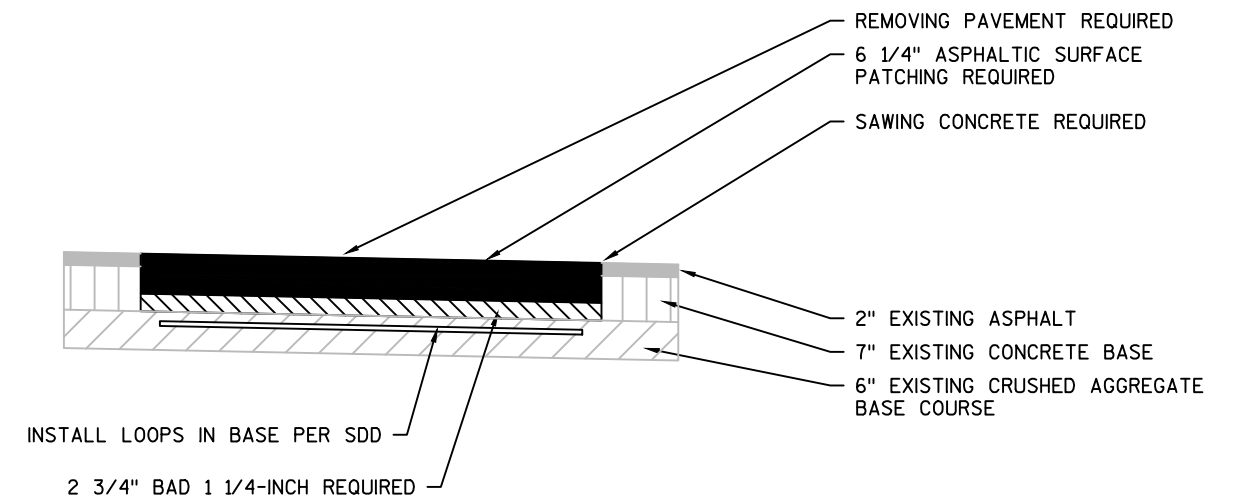
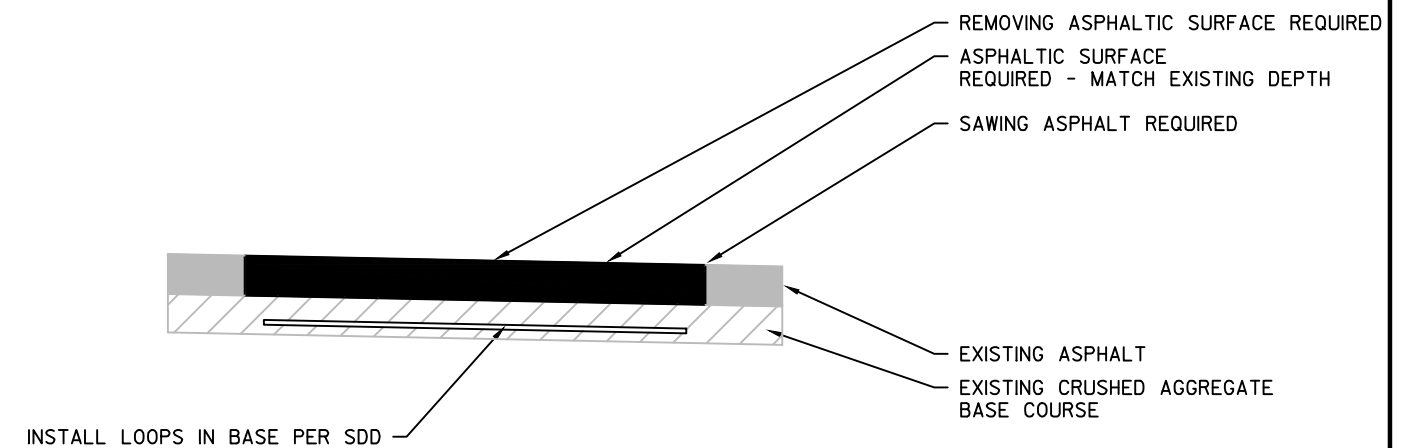




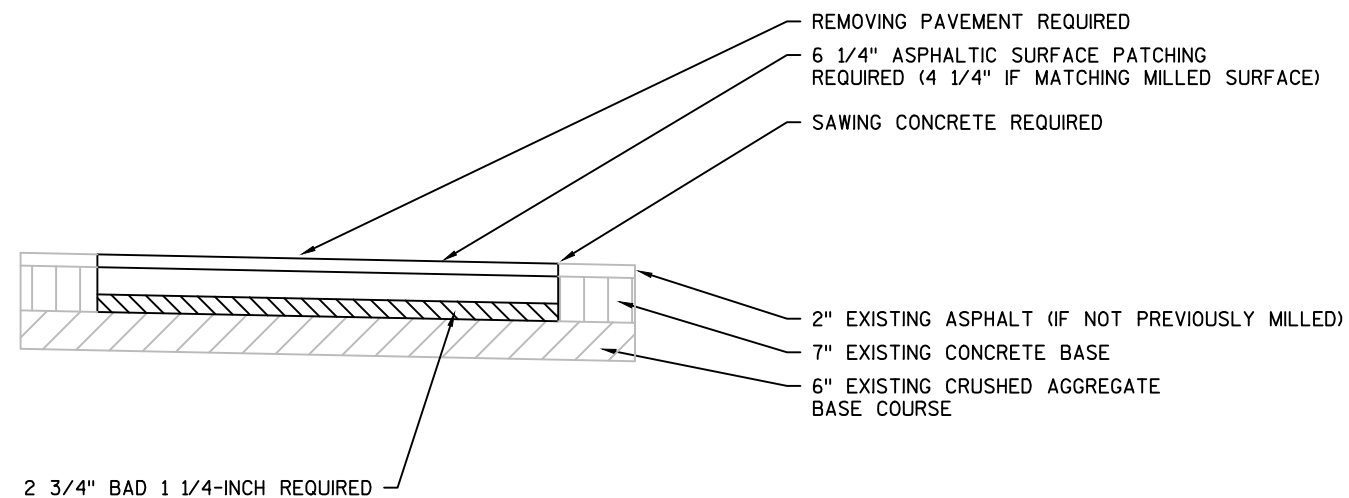




TYPICAL PLAN VIEW

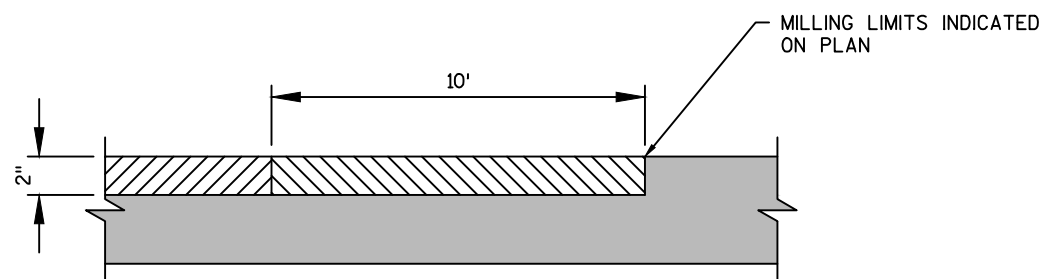
TYPICAL CROSS SECTION (CONCRETE BASE)
NOT TO SCALETYPICAL CROSS SECTION (NO CONCRETE BASE)
NOT TO SCALE

LOOP DETECTOR REMOVAL AND PATCHING DETAILS
SEE SIGNAL PLANS FOR SPECIFIC LOOP LOCATIONS.



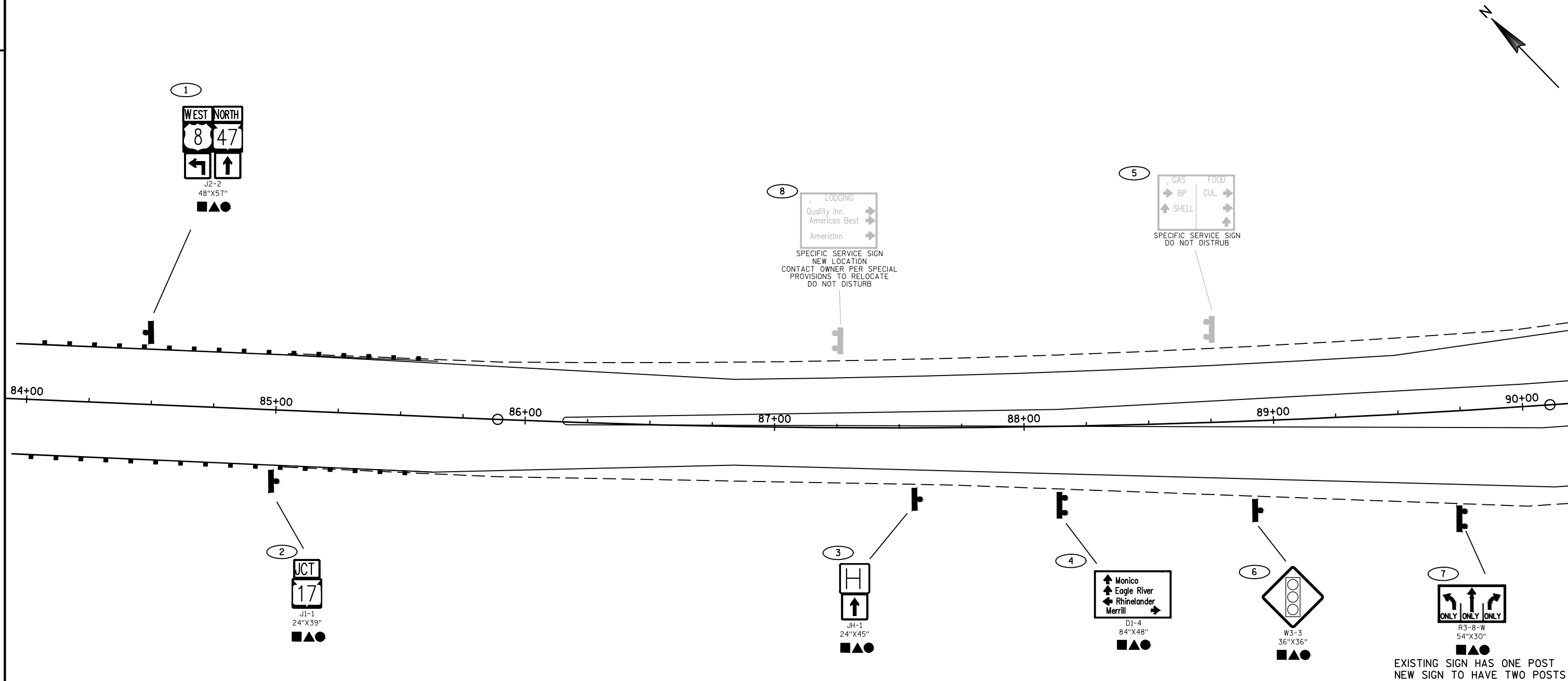
BASE PATCH DETAIL

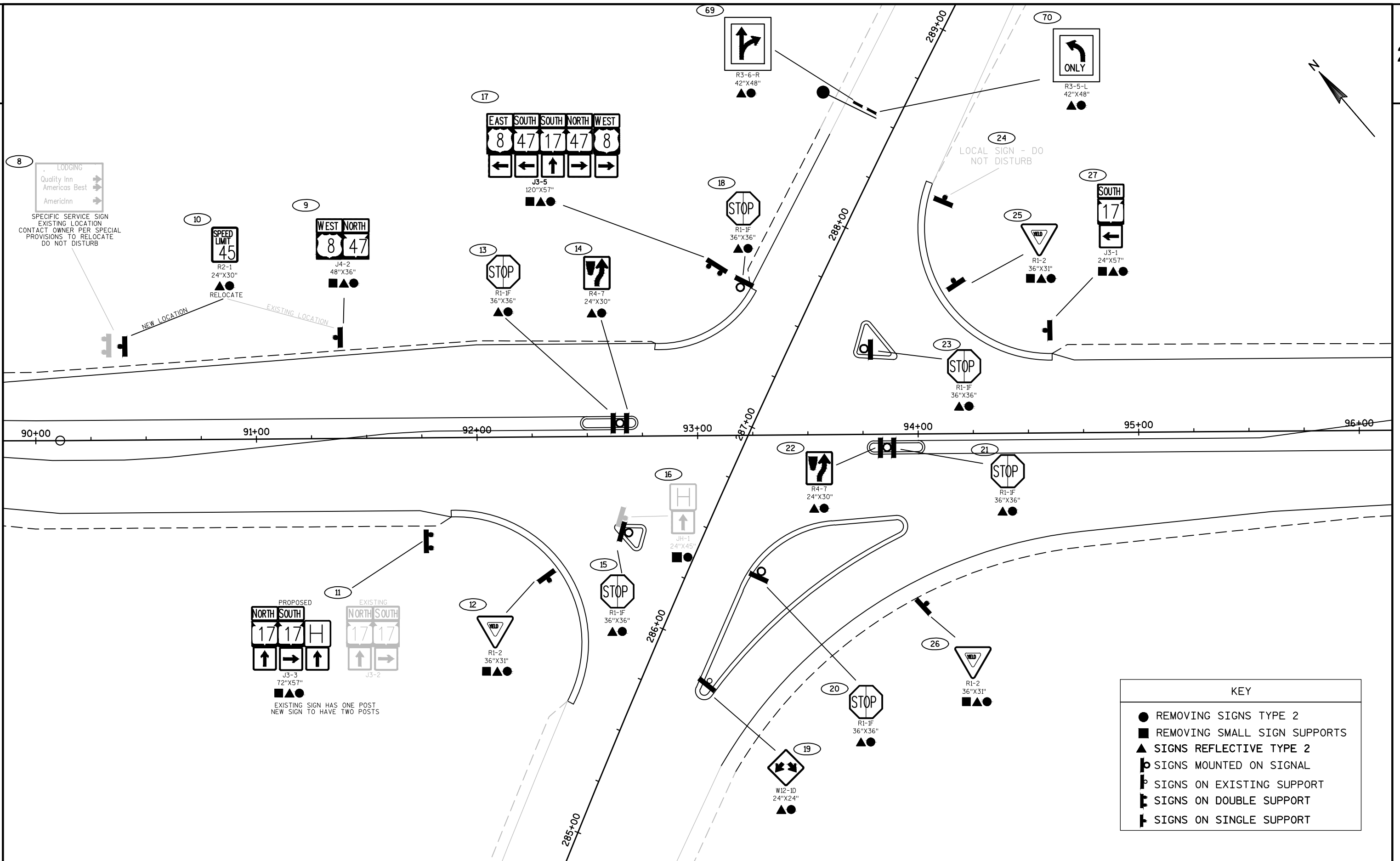
NOT TO SCALE
EXACT LOCATIONS TO BE DETERMINED IN FIELD BY ENGINEER

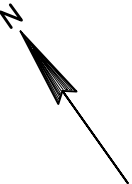


BUTT JOINT DETAIL

NOT TO SCALE
EXACT LOCATIONS TO BE DETERMINED IN FIELD BY ENGINEER



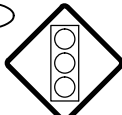




28
R3-8-W
5'4"X30"
EXISTING SIGN HAS ONE POST
NEW SIGN TO HAVE TWO POSTS



31
W3-3
36"X36"



32
D1-2
84"X30"
Merrill
Rhinelander



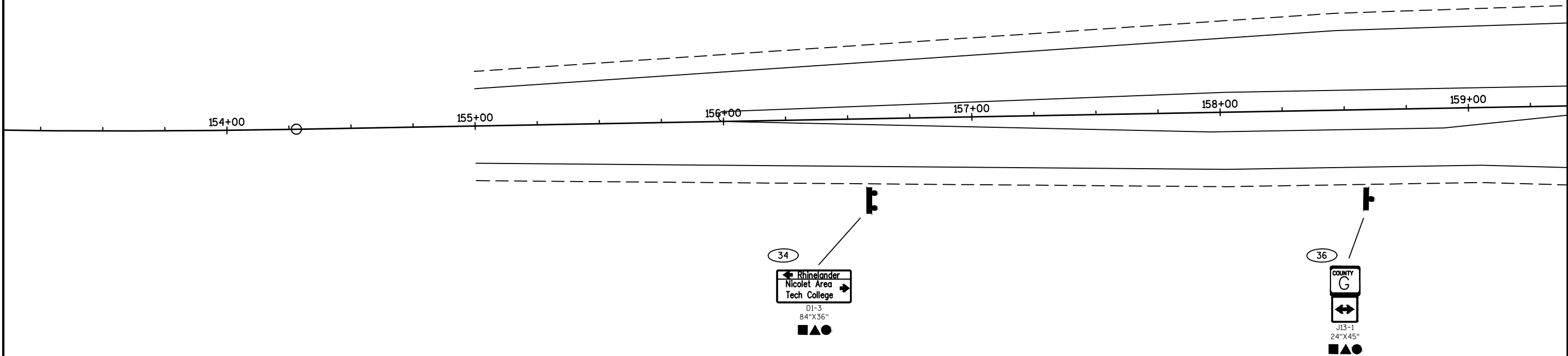
29
I55-56
30"X36"
30
TRUCK
ROUTE
R14-1
24"X18"

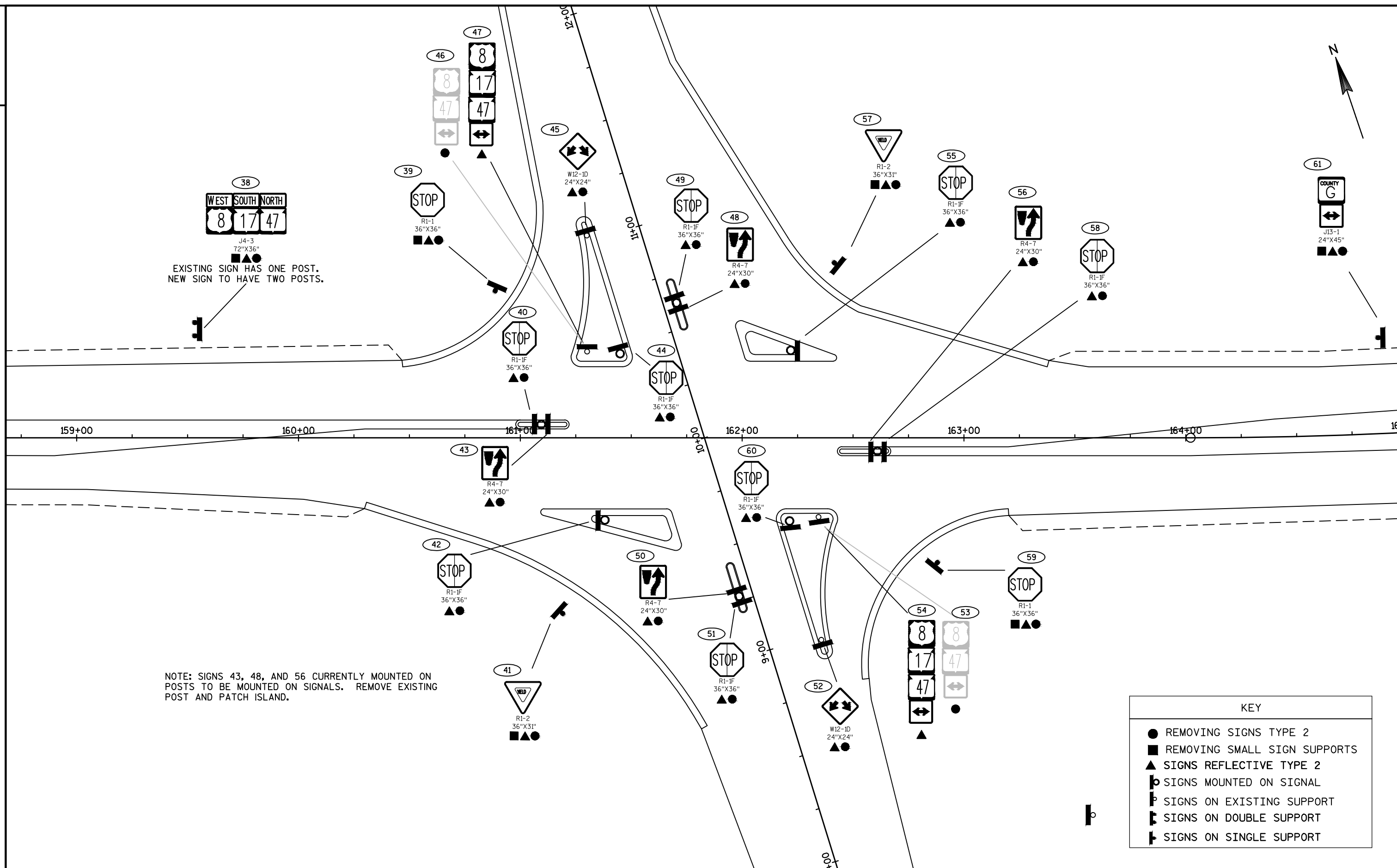


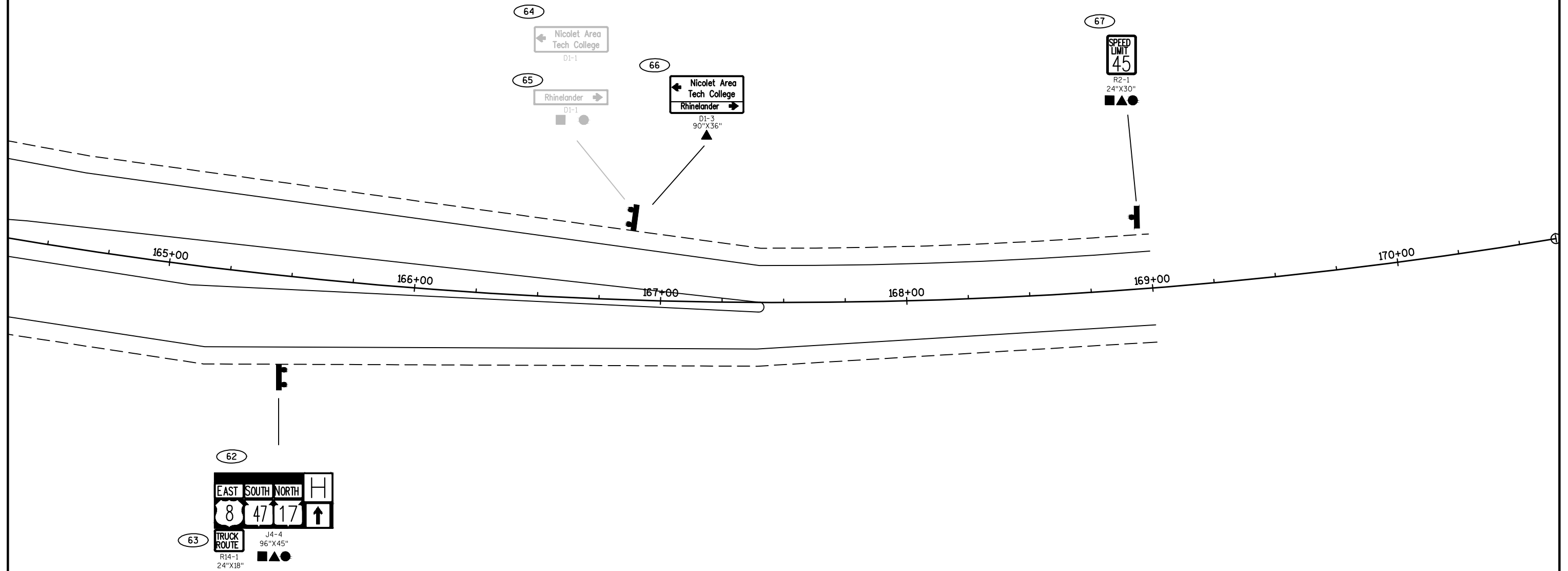
33
R2-1
24"X30"
SPEED
LIMIT
45



KEY	
●	REMOVING SIGNS TYPE 2
■	REMOVING SMALL SIGN SUPPORTS
▲	SIGNS REFLECTIVE TYPE 2
⌋	SIGNS ON DOUBLE SUPPORT
⌋	SIGNS ON SINGLE SUPPORT







KEY	
●	REMOVING SIGNS TYPE 2
■	REMOVING SMALL SIGN SUPPORTS
▲	SIGNS REFLECTIVE TYPE 2
⌋	SIGNS ON DOUBLE SUPPORT
⌋	SIGNS ON SINGLE SUPPORT

LEGEND

 CONTROL CABINET	 2A SIGNAL HEAD NUMBER
 CONDUIT (SIZE NOTED)	 (R) RED CIRCULAR INDICATOR
 LOOP DETECTOR IN 1" NONMETALLIC CONDUIT, SIDE PULL LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL BOX OFF ROADWAY (OPTION 2)	 (Y) YELLOW CIRCULAR INDICATOR
 SIGNAL HEAD PEDESTAL MOUNT TYPE 1 BASE (WITH BACKPLATE)	 (G) GREEN CIRCULAR INDICATOR
 SIGNAL HEAD / LUMINARE POLE TYPE 3 TYPE 2 BASE (WITH BACKPLATE)	 (Y) YELLOW ARROW (LEFT)
 TYPE 5 LIGHTING UNIT WITH TYPE 5 BASE	 (G) GREEN ARROW (LEFT)
 PULL BOX, STEEL, 24"x36"	 LANE DESIGNATION (FOR REFERENCE)
	 YIELD SIGN

CONSTRUCTION NOTES

1) INSTALL NEW LOOP DETECTORS AS IDENTIFIED ON THE PLAN. LOCATION IS TO FRONT CENTER OF THE DETECTOR LOOP. LOOP SHALL BE CENTERED IN TRAFFIC LANE. INSTALL LOOPS IN AGGREGATE BASE COURSE. DISTANCE BETWEEN MULTIPLE STOP BAR LOOPS SHALL BE 8 FEET.

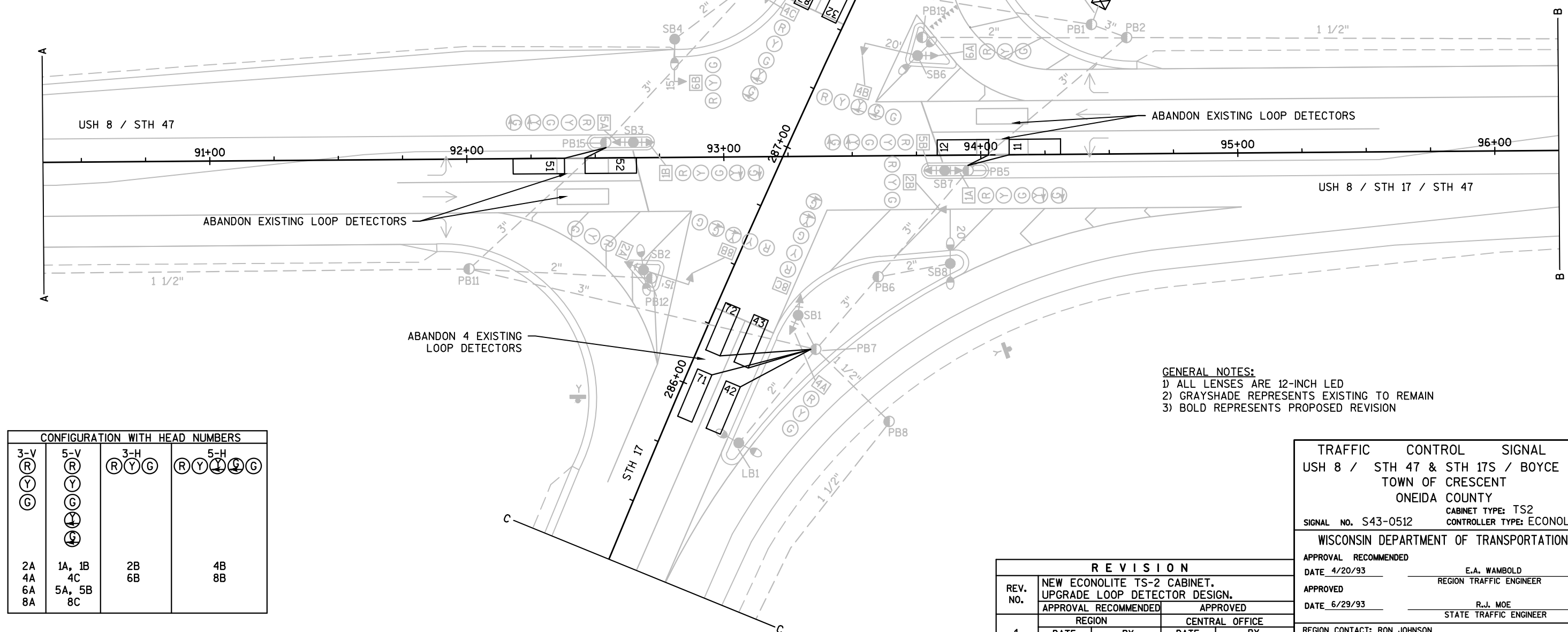
2) INSTALL NEW PULLBOXES (PB4, PB9, PB14, AND PB17) AND CONDUIT AS IDENTIFIED ON THE PLAN. THE CONTRACTOR SHALL HAVE THE PULLBOXES AND CONDUIT RUNS INSPECTED BEFORE PULLING SIGNAL WIRE INTO THE SYSTEM.

3) EACH LOOP DETECTOR SHALL HAVE A SEPARATE LEAD-IN CABLE TO THE CONTROL CABINET.

4) NEW ECONOLITE TS-2 SIGNAL CABINET TO BE INSTALLED BY WISDOT ELECTRICIAN PRIOR TO OR DURING PROJECT.

5) THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS AND STRUCTURES ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS OR STRUCTURES WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN.

6) INSTALL FOLDING STOP SIGNS ON SIGNAL POLES (SB1, SB2, SB3, SB5, SB6, AND SB7)



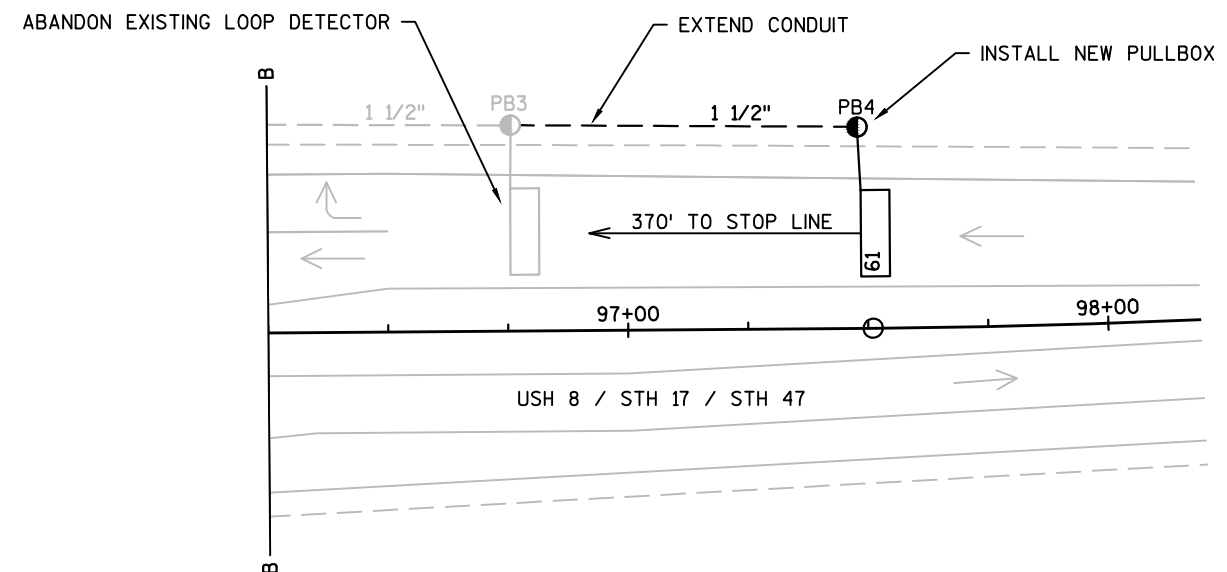
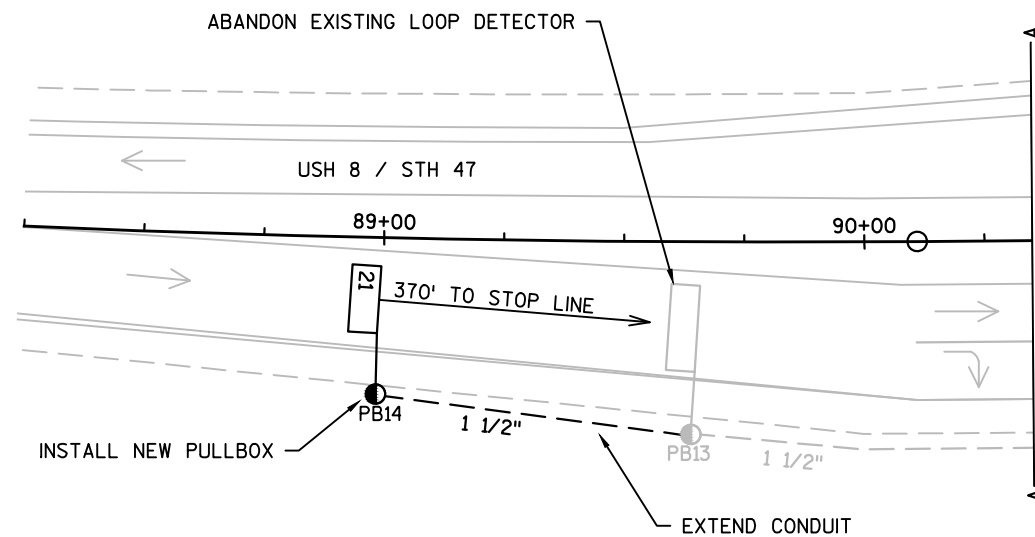
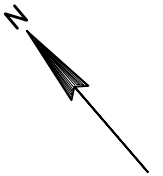
GENERAL NOTES:

- 1) ALL LENSES ARE 12-INCH LED
- 2) GRAYSHADE REPRESENTS EXISTING TO REMAIN
- 3) BOLD REPRESENTS PROPOSED REVISION

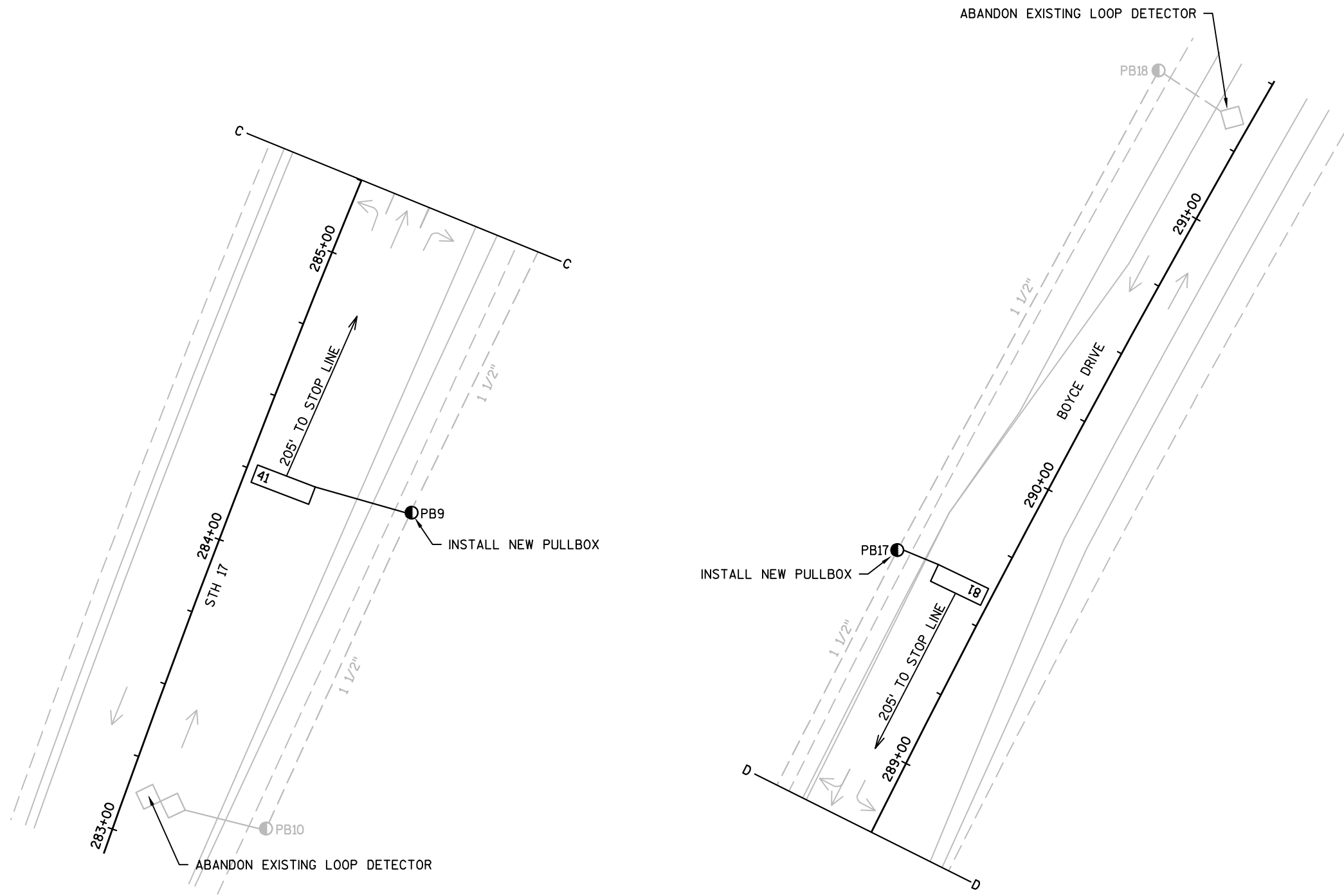
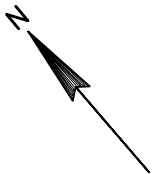
CONFIGURATION WITH HEAD NUMBERS			
3-V (R) (Y) (G)	5-V (R) (Y) (G) (Y) (G)	3-H (R)(Y)(G)	5-H (R)(Y)(G) (Y) (G)
2A 4A 6A 8A	1A, 1B 4C 5A, 5B 8C	2B 6B	4B 8B

REVISION			
REV. NO.	REGION	CENTRAL OFFICE	DATE
1	DATE	BY	DATE
	1/13/2016	RLJ	1/14/2016

TRAFFIC CONTROL SIGNAL	USH 8 / STH 47 & STH 17S / BOYCE DR
TOWN OF CRESCENT	ONEIDA COUNTY
SIGNAL NO. S43-0512	CABINET TYPE: TS2
WISCONSIN DEPARTMENT OF TRANSPORTATION	CONTROLLER TYPE: ECONOLITE
APPROVAL RECOMMENDED	DATE 4/20/93
APPROVED	DATE 6/29/93
REGION CONTACT: RON JOHNSON	DESIGNED BY: RON JOHNSON
REVISOR: RON JOHNSON	REVISOR: RON JOHNSON



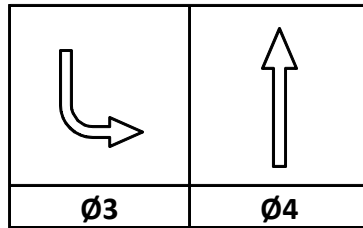
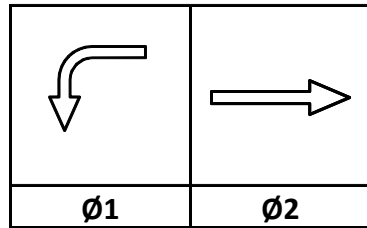
TRAFFIC CONTROL SIGNAL USH 8 / STH 47 & STH 17S / BOYCE DR TOWN OF CRESCENT ONEIDA COUNTY
SIGNAL NO. S43-0512
REGION CONTACT: RON JOHNSON DESIGNED BY: RON JOHNSON REVISED BY: RON JOHNSON
PAGE 2 OF 4



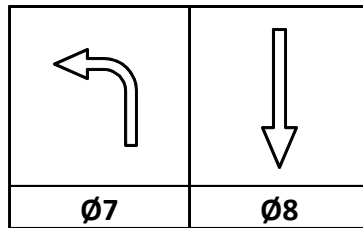
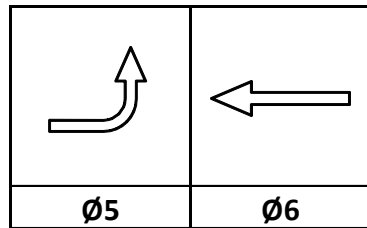
TRAFFIC CONTROL SIGNAL USH 8 / STH 47 & STH 17S / BOYCE DR TOWN OF CRESCENT ONEIDA COUNTY
SIGNAL NO. S43-0512
REGION CONTACT: RON JOHNSON DESIGNED BY: RON JOHNSON REVISED BY: RON JOHNSON
PAGE 3 OF 4

	HEAD NUMBERS	FLASH
Ø1	1A, 1B	-
Ø2	2A, 2B, 5A, 5B	R
Ø3	8B, 8C	-
Ø4	4A, 4B, 4C	R
Ø5	5A, 5B	-
Ø6	6A, 6B, 1A, 1B	R
Ø7	4B, 4C	-
Ø8	8A, 8B, 8C	R
Ø2P		
Ø4P		
Ø6P		
Ø8P		
OLE		
OLF		
OLG		
OLH		

RING 1



RING 2



BARRIER

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	21	51	61	11	41	42	71	81
CALLLED PHASE	2	5	6	1		4	7	
CALL OPTION	X	X	X	X		X	X	
DELAY TIME								
EXTENTION OPTION	X	X	X	X	X	X	X	X
EXTEND TIME	5.0	2.0	5.0	2.0	2.0	2.0	2.0	2.0
USE ADDED INITIAL	X		X					
CROSS SWITCH PHASE								
STRETCH TIME					2.0			2.0
LOOP SIZE (FTxFT)	6x14	6x20	6x18	6x20	6x20	6x20	6x20	6x18
NUMBER TURNS	4	3	4	3	4	3	3	4

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)		52		12		43	72	
CALLLED PHASE		5		1		4	7	
CALL OPTION		X		X		X	X	
DELAY TIME							3.0	
EXTENTION OPTION		X		X		X	X	
EXTEND TIME		2.0		2.0		2.0	2.0	
USE ADDED INITIAL								
CROSS SWITCH PHASE								
STRETCH TIME								
LOOP SIZE (FTxFT)		6x20		6x20		6x20	6x20	
NUMBER TURNS		3		3		3	3	

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN	X
7		4		X
8		4		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT				
PHASE				

AFTER PREEMPTION SEQUENCE X+X OR X+X, CONTROLLER SHALL RETURN TO PHASES X+X.

AFTER PREEMPTION SEQUENCE X+X OR X+X, CONTROLLER SHALL RETURN TO PHASES X+X.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	X
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	X
TBC	
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER	
CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-

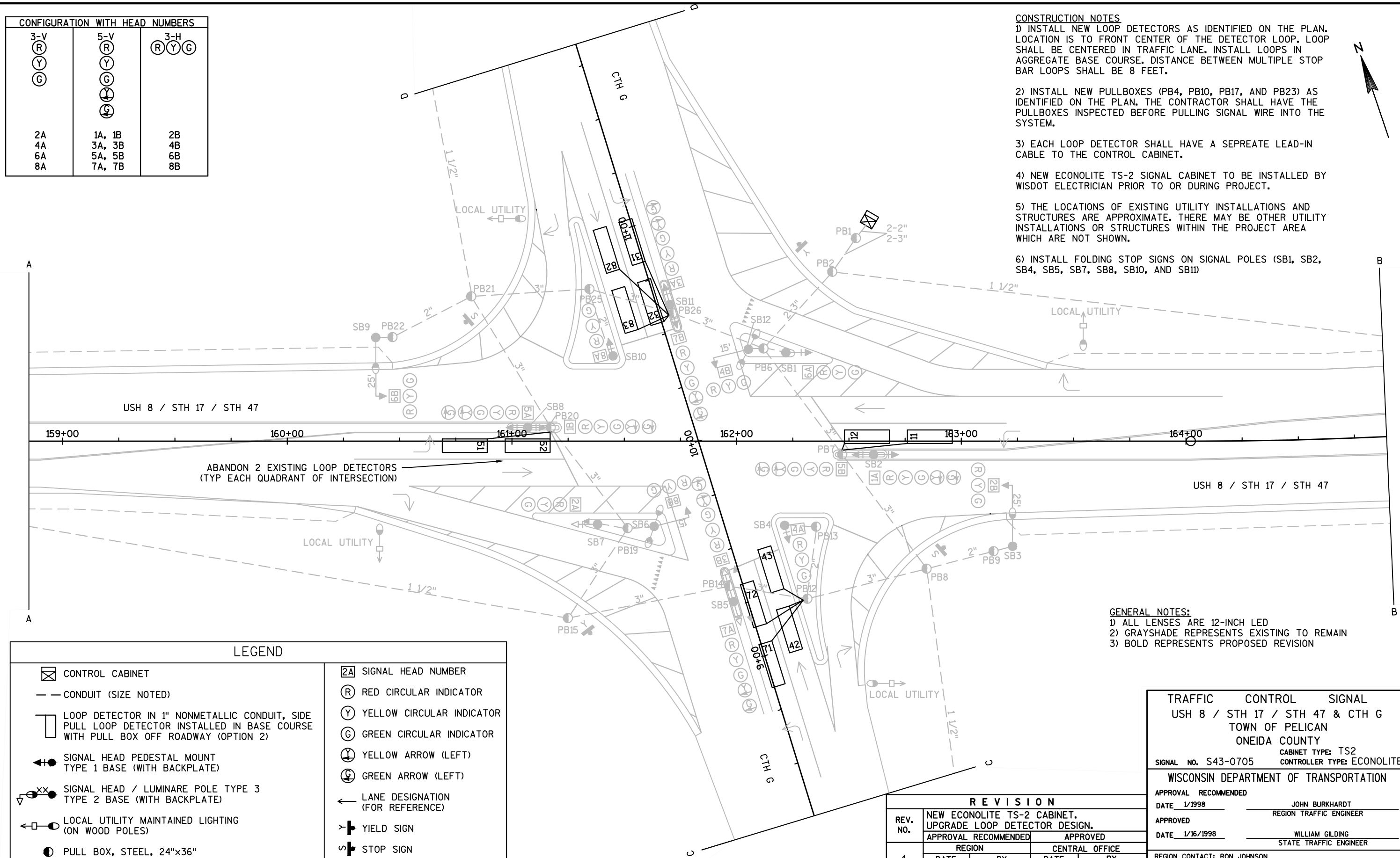
TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTION	

GENERAL NOTES:

- ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
- WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL.
- WHEN OPPOSING THROUGH PHASES ARE TIMING CONCURRENTLY, THEY SHALL TERMINATE TOGETHER DUE TO PERMISSIVE LEFT TURN CONFLICT

CONFIGURATION WITH HEAD NUMBERS		
3-V (R) (Y) (G)	5-V (R) (Y) (G) (Y) (G)	3-H (R)(Y)(G)
2A 4A 6A 8A	1A, 1B 3A, 3B 5A, 5B 7A, 7B	2B 4B 6B 8B



CONSTRUCTION NOTES

1) INSTALL NEW LOOP DETECTORS AS IDENTIFIED ON THE PLAN. LOCATION IS TO FRONT CENTER OF THE DETECTOR LOOP. LOOP SHALL BE CENTERED IN TRAFFIC LANE. INSTALL LOOPS IN AGGREGATE BASE COURSE. DISTANCE BETWEEN MULTIPLE STOP BAR LOOPS SHALL BE 8 FEET.

2) INSTALL NEW PULLBOXES (PB4, PB10, PB17, AND PB23) AS IDENTIFIED ON THE PLAN. THE CONTRACTOR SHALL HAVE THE PULLBOXES INSPECTED BEFORE PULLING SIGNAL WIRE INTO THE SYSTEM.

3) EACH LOOP DETECTOR SHALL HAVE A SEPREATE LEAD-IN CABLE TO THE CONTROL CABINET.

4) NEW ECONOLITE TS-2 SIGNAL CABINET TO BE INSTALLED BY WISDOT ELECTRICIAN PRIOR TO OR DURING PROJECT.

5) THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS AND STRUCTURES ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS OR STRUCTURES WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN.

6) INSTALL FOLDING STOP SIGNS ON SIGNAL POLES (SB1, SB2, SB4, SB5, SB7, SB8, SB10, AND SB11)

GENERAL NOTES:

- 1) ALL LENSES ARE 12-INCH LED
- 2) GRAYSHADE REPRESENTS EXISTING TO REMAIN
- 3) BOLD REPRESENTS PROPOSED REVISION

LEGEND

CONTROL CABINET	SIGNAL HEAD NUMBER
CONDUIT (SIZE NOTED)	RED CIRCULAR INDICATOR
LOOP DETECTOR IN 1" NONMETALLIC CONDUIT, SIDE PULL LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL BOX OFF ROADWAY (OPTION 2)	YELLOW CIRCULAR INDICATOR
SIGNAL HEAD PEDESTAL MOUNT TYPE 1 BASE (WITH BACKPLATE)	GREEN CIRCULAR INDICATOR
SIGNAL HEAD / LUMINARE POLE TYPE 3 TYPE 2 BASE (WITH BACKPLATE)	YELLOW ARROW (LEFT)
LOCAL UTILITY MAINTAINED LIGHTING (ON WOOD POLES)	GREEN ARROW (LEFT)
PULL BOX, STEEL, 24"x36"	LANE DESIGNATION (FOR REFERENCE)
	YIELD SIGN
	STOP SIGN

REVISION

REV. NO.	NEW ECONOLITE TS-2 CABINET. UPGRADE LOOP DETECTOR DESIGN.			
	APPROVAL RECOMMENDED		APPROVED	
1	REGION		CENTRAL OFFICE	
	DATE	BY	DATE	BY
	1/13/2016	RLJ	1/14/2016	JLB

TRAFFIC CONTROL SIGNAL		
USH 8 / STH 17 / STH 47 & CTH G		
TOWN OF PELICAN		
ONEIDA COUNTY		
SIGNAL NO. S43-0705		CABINET TYPE: TS2 CONTROLLER TYPE: ECONOLITE
WISCONSIN DEPARTMENT OF TRANSPORTATION		
APPROVAL RECOMMENDED		
DATE 1/1998	JOHN BURKHARDT	
		REGION TRAFFIC ENGINEER
APPROVED		
DATE 1/16/1998	WILLIAM GILDING	
		STATE TRAFFIC ENGINEER
REGION CONTACT: RON JOHNSON		
DESIGNED BY: RON JOHNSON		
REVISED BY: RON JOHNSON		

PAGE 1 OF 4

PROJECT NO:1590-12-62

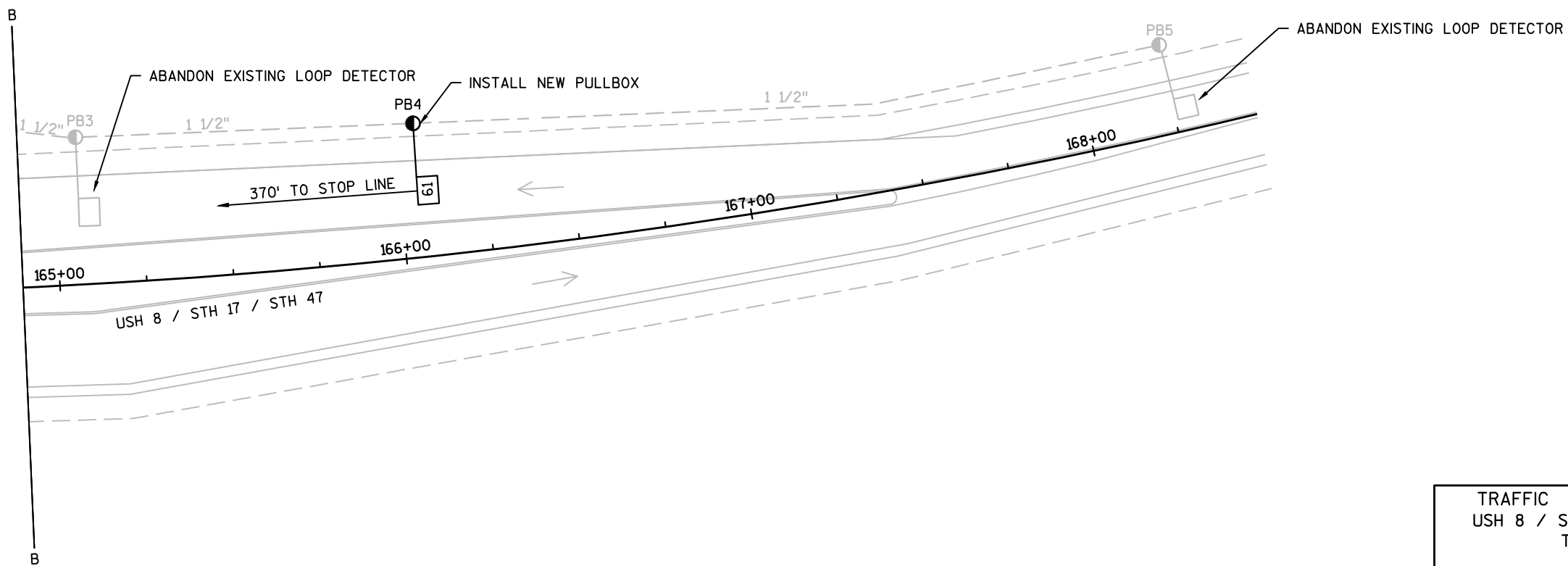
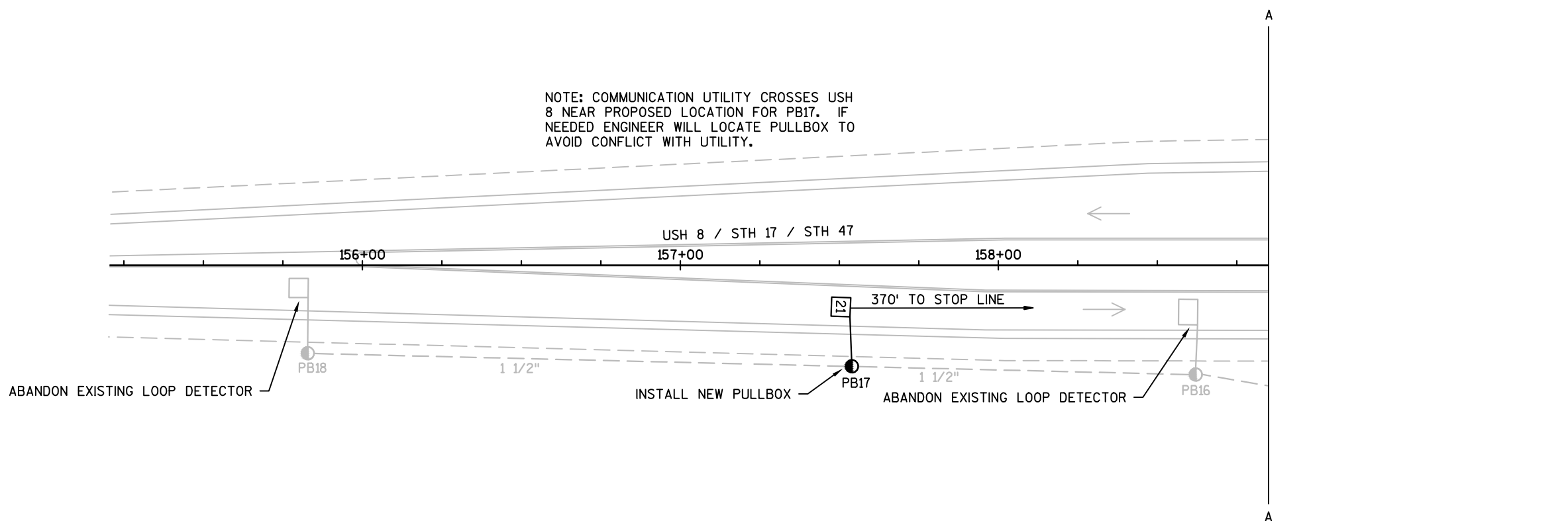
HWY:USH 8

COUNTY:ONEIDA

TRAFFIC SIGNAL PLAN - USH 8 & CTH G

SHEET

E



TRAFFIC CONTROL SIGNAL
USH 8 / STH 17 / STH 47 & CTH G
TOWN OF PELICAN
ONEIDA COUNTY
SIGNAL NO. S43-0705
REGION CONTACT: RON JOHNSON
DESIGNED BY: RON JOHNSON
REVISED BY: RON JOHNSON

PAGE 2 OF 4

PROJECT NO:1590-12-62

HWY:USH 8

COUNTY:ONEIDA

TRAFFIC SIGNAL PLAN - USH 8 & CTH G

SHEET

E

FILE NAME : N:\PDS\C3D\15901232\SHEETSPLAN\024202-SP.DWG
LAYOUT NAME - 024202-SP - 02

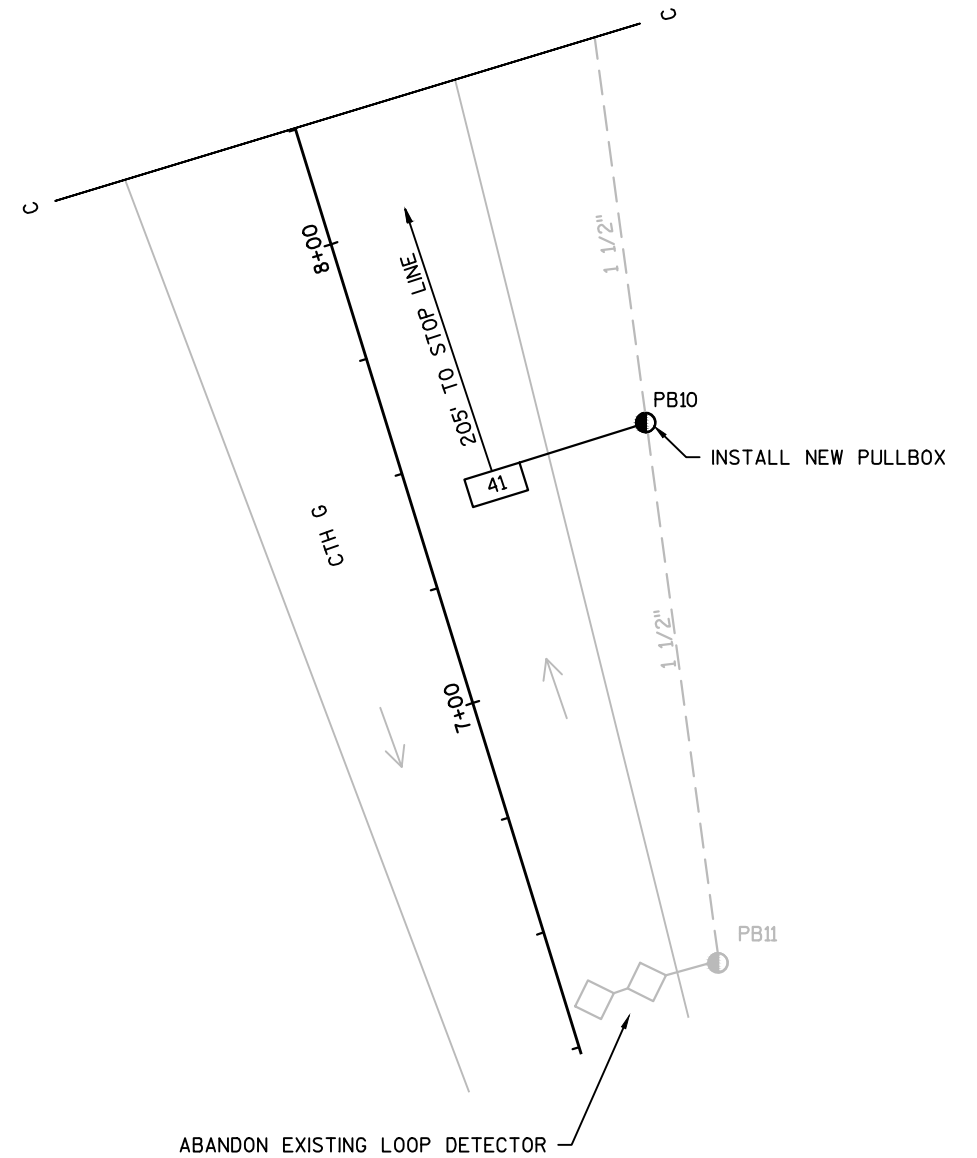
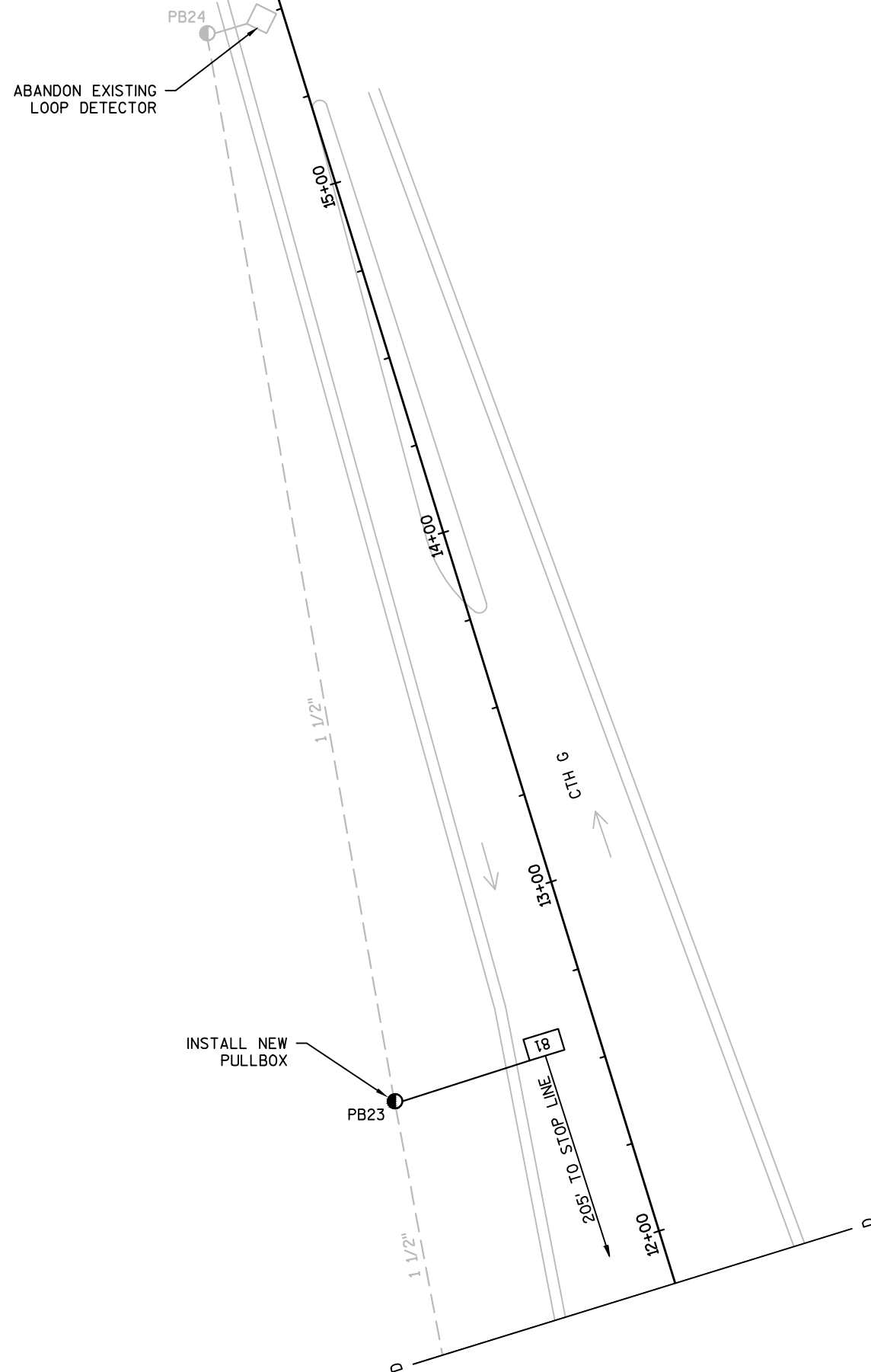
PLOT DATE : 1/13/2016 9:56 AM

PLOT BY : KILEN, KAI M

PLOT NAME :

PLOT SCALE : 1 IN:40 FT

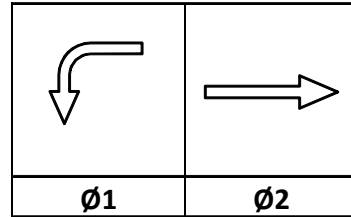
WISDOT/CADDs SHEET 44



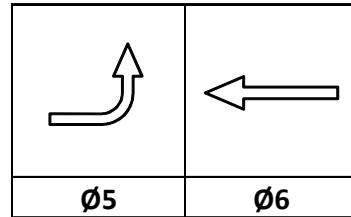
TRAFFIC CONTROL SIGNAL		
USH 8 / STH 17 / STH 47 & CTH G		
TOWN OF PELICAN		
ONEIDA COUNTY		
SIGNAL NO. S43-0705		
REGION CONTACT: RON JOHNSON		PAGE 3 OF 4
DESIGNED BY: RON JOHNSON		
REVISED BY: RON JOHNSON		

	HEAD NUMBERS	F L A S H
Ø1	1A, 1B	-
Ø2	2A, 2B, 5A, 5B	R
Ø3	3A, 3B	-
Ø4	4A, 4B, 7A, 7B	R
Ø5	5A, 5B	-
Ø6	6A, 6B, 1A, 1B	R
Ø7	7A, 7B	-
Ø8	8A, 8B, 3A, 3B	R
Ø2P		
Ø4P		
Ø6P		
Ø8P		
OLE		
OLF		
OLG		
OLH		

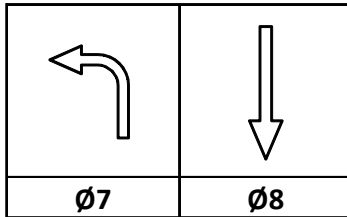
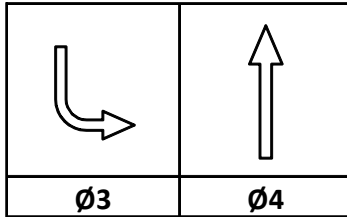
RING 1



RING 2



BARRIER



N

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN	X
7		4		X
8		4		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT				
PHASE				

AFTER PREEMPTION SEQUENCE X+X OR X+X, CONTROLLER SHALL RETURN TO PHASES X+X.

AFTER PREEMPTION SEQUENCE X+X OR X+X, CONTROLLER SHALL RETURN TO PHASES X+X.

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	21	51	61	11	41	42	71	81
CALLED PHASE	2	5	6	1		4	7	
CALL OPTION	X	X	X	X		X	X	
DELAY TIME								
EXTENTION OPTION	X	X	X	X	X	X	X	X
EXTEND TIME	5.0	2.0	5.0	2.0	2.0	2.0	2.0	2.0
USE ADDED INITIAL	X		X					
CROSS SWITCH PHASE								
STRETCH TIME					2.0			2.0
LOOP SIZE (FTxFT)	6x6	6x20	6x8	6x20	6x12	6x20	6x20	6x10
NUMBER TURNS	4	3	4	3	4	3	3	4

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)		52		12		73	72	
CALLED PHASE		5		1		4	7	
CALL OPTION		X		X		X	X	
DELAY TIME								
EXTENTION OPTION		X		X		X	X	
EXTEND TIME		2.0		2.0		2.0	2.0	
USE ADDED INITIAL								
CROSS SWITCH PHASE								
STRETCH TIME								
LOOP SIZE (FTxFT)		6x20		6x20		6x20	6x20	
NUMBER TURNS		3		3		3	3	

	19	17	23	21	27	25	31	29
	82	31						
	8	3						
	X	X						
	X	X						
	2.0	2.0						
	6x20	6x20						
	3	3						

	20	18	24	22	28	26	32	30
	83	32						
	8	3						
	X	X						
	X	X						
	2.0	2.0						
	6x20	6x20						
	3	3						

DETECTOR INPUT

PLAN LOOP DETECTOR*(S)

CALLED PHASE

CALL OPTION

DELAY TIME

EXTENTION OPTION

EXTEND TIME

USE ADDED INITIAL

CROSS SWITCH PHASE

STRETCH TIME

LOOP SIZE (FTxFT)

NUMBER TURNS

DETECTOR INPUT

PLAN LOOP DETECTOR*(S)

CALLED PHASE

CALL OPTION

DELAY TIME

EXTENTION OPTION

EXTEND TIME

USE ADDED INITIAL

CROSS SWITCH PHASE

STRETCH TIME

LOOP SIZE (FTxFT)

NUMBER TURNS

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	X
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	X
TBC	
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER	
CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-

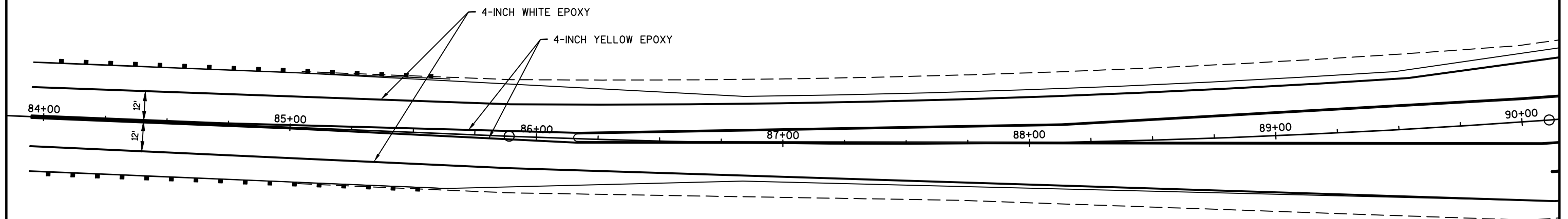
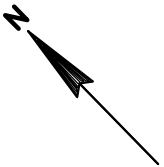
TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTION	

GENERAL NOTES:

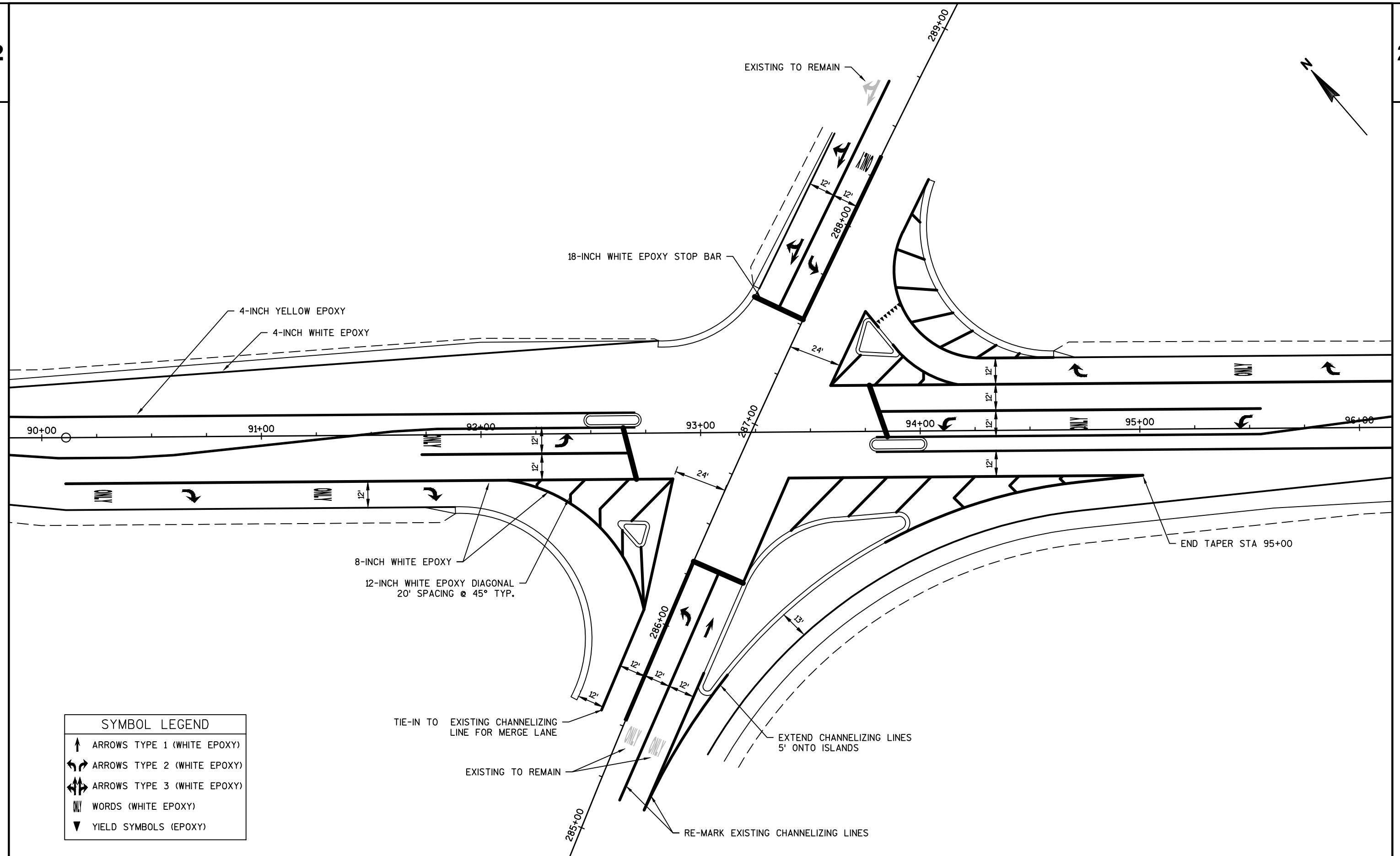
- 1 ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
- 2 WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL.
- 3 WHEN OPPOSING THROUGH PHASES ARE TIMING CONCURRENTLY, THEY SHALL TERMINATE TOGETHER DUE TO PERMISSIVE LEFT TURN CONFLICT

USH 8 / STH 17 / STH 47 & CTH G	
TOWN OF PELICAN	
ONEIDA COUNTY	
SIGNAL NO: S43-0705	CABINET TYPE: TS2
CONTROLLER TYPE: ECONOLITE	
DATE: 9/24/2015	PAGE NO. 4 OF 4

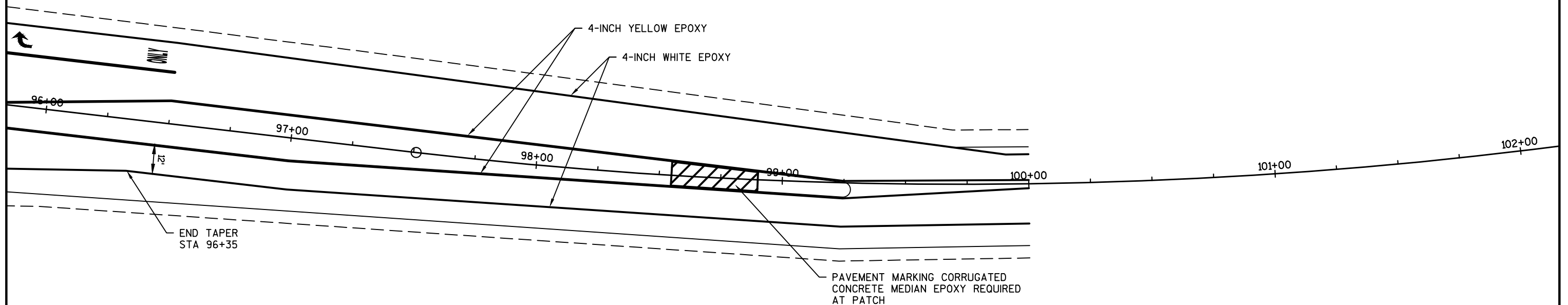


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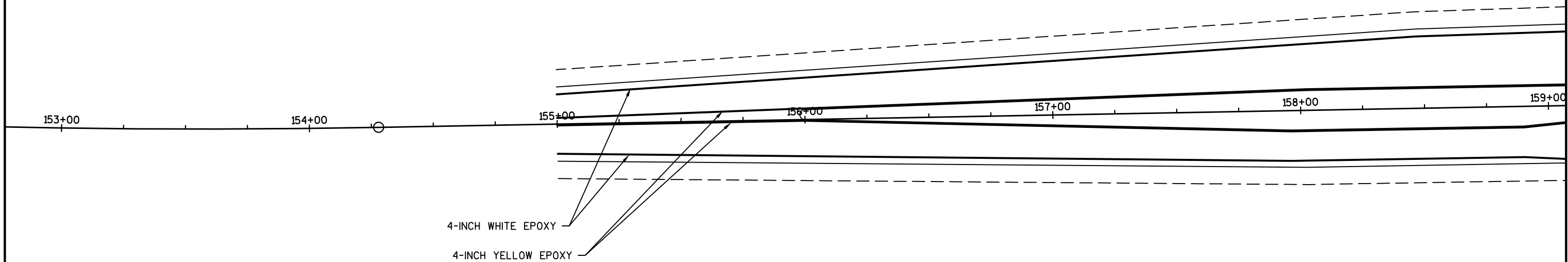
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PROJECT NO:1590-12-62	HWY:USH 8	COUNTY:ONEIDA	PERMANENT PAVEMENT MARKING	SHEET	E
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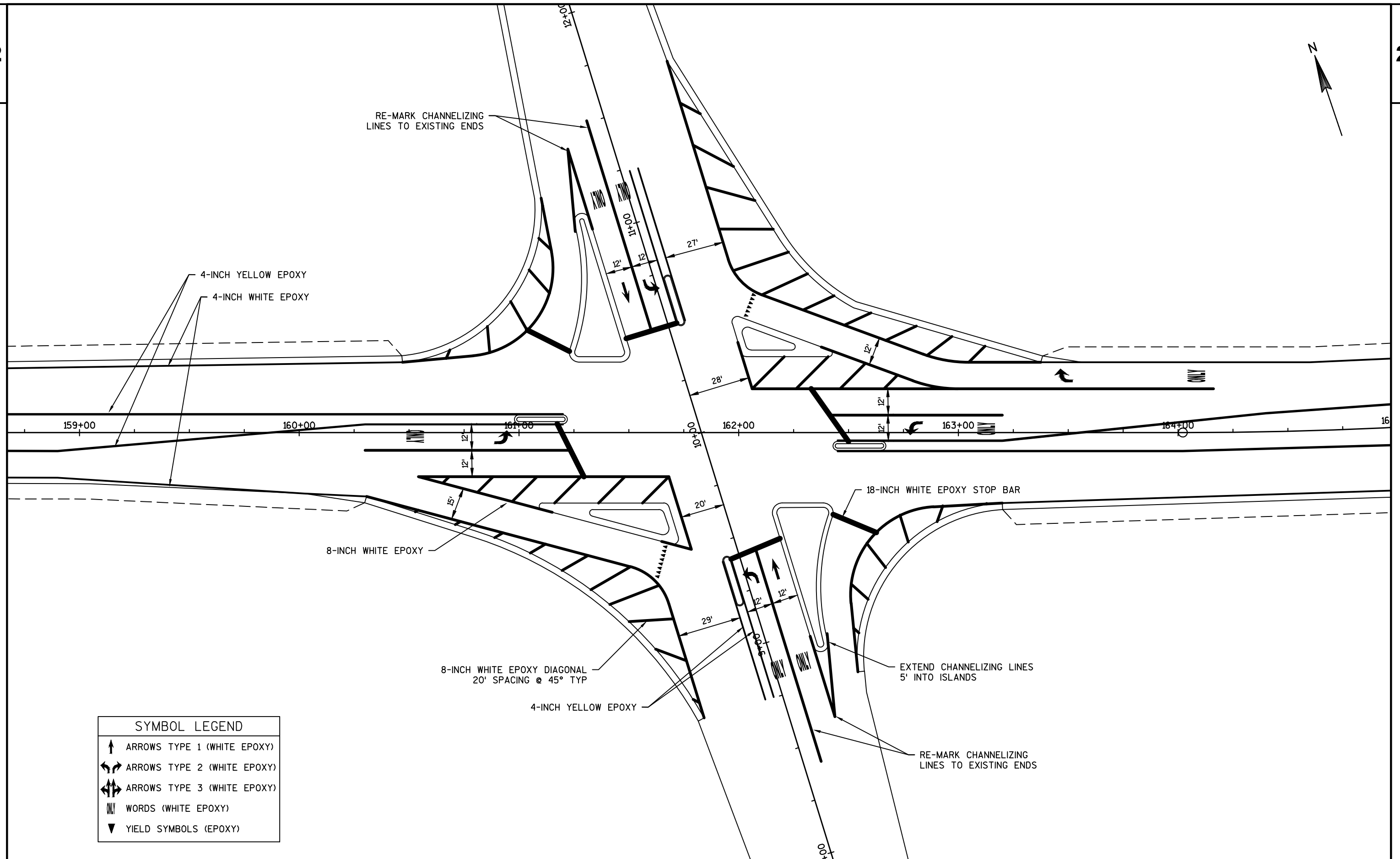


SYMBOL LEGEND	
	ARROWS TYPE 1 (WHITE EPOXY)
	ARROWS TYPE 2 (WHITE EPOXY)
	ARROWS TYPE 3 (WHITE EPOXY)
	WORDS (WHITE EPOXY)

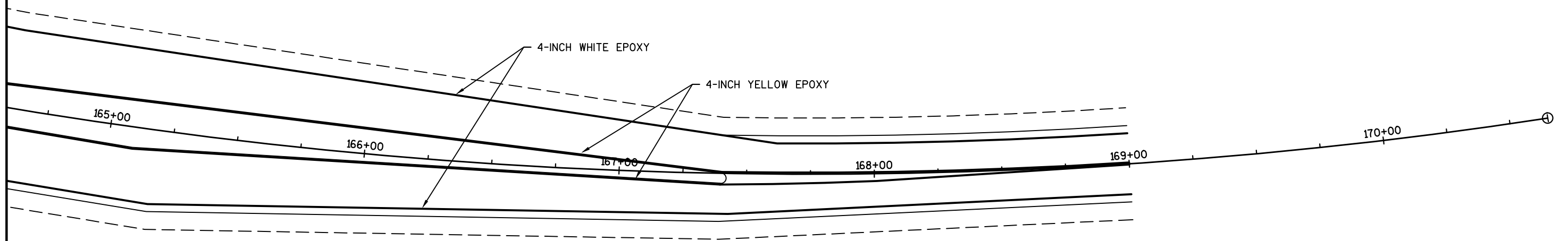


2

2



SYMBOL LEGEND	
	ARROWS TYPE 1 (WHITE EPOXY)
	ARROWS TYPE 2 (WHITE EPOXY)
	ARROWS TYPE 3 (WHITE EPOXY)
	WORDS (WHITE EPOXY)
	YIELD SYMBOLS (EPOXY)



PROJECT NO:1590-12-62	HWY:USH 8	COUNTY:ONEIDA	PERMANENT PAVEMENT MARKING	SHEET	E
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DATE 15MAR16		E S T I M A T E O F Q U A N T I T I E S			
LINE					1590-12-62
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0010	204.0100	Removing Pavement	SY	651.000	651.000
0020	204.0109.S	Removing Concrete Surface Partial Depth	SF	5,640.000	5,640.000
0030	204.0110	Removing Asphaltic Surface	SY	64.000	64.000
0040	204.0115	Removing Asphaltic Surface Butt Joints	SY	416.000	416.000
0050	204.0120	Removing Asphaltic Surface Milling	SY	18,107.000	18,107.000
0060	204.0150	Removing Curb & Gutter	LF	16.000	16.000
0070	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	8.000	8.000
0080	213.0100	Finishing Roadway (project) 01. 1590-12-62	EACH	1.000	1.000
0090	305.0110	Base Aggregate Dense 3/4-Inch	TON	451.000	451.000
0100	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	112.000	112.000
0110	305.0500	Shaping Shoulders	STA	49.000	49.000
0120	455.0605	Tack Coat	GAL	1,103.000	1,103.000
0130	460.2000	Incentive Density HMA Pavement	DOL	1,390.000	1,390.000
0140	460.4000	HMA Cold Weather Paving	TON	217.000	217.000
0150	460.6424	HMA Pavement 4 MT 58-28 H	TON	2,167.000	2,167.000
0160	465.0105	Asphaltic Surface	TON	25.000	25.000
0170	465.0110	Asphaltic Surface Patching	TON	280.000	280.000
0180	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	16.000	16.000
0190	618.0100	Maintenance And Repair of Haul Roads (project) 01. 1590-12-62	EACH	1.000	1.000
0200	619.1000	Mobilization	EACH	1.000	1.000
0210	620.0100	Concrete Corrugated Median	SF	465.000	465.000
0220	624.0100	Water	MGAL	9.000	9.000
0230	625.0100	Topsoil	SY	150.000	150.000
0240	628.1905	Mobilizations Erosion Control	EACH	1.000	1.000
0250	628.1910	Mobilizations Emergency Erosion Control	EACH	1.000	1.000
0260	628.2002	Erosion Mat Class I Type A	SY	150.000	150.000
0270	629.0210	Fertilizer Type B	CWT	0.110	0.110
0280	630.0120	Seeding Mixture No. 20	LB	5.000	5.000
0290	631.0300	Sod Water	MGAL	5.000	5.000
0300	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	26.000	26.000
0310	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	16.000	16.000
0320	637.2210	Signs Type II Reflective H	SF	460.940	460.940
0330	637.2215	Signs Type II Reflective H Folding	SF	96.980	96.980
0340	637.2230	Signs Type II Reflective F	SF	30.000	30.000
0350	638.2602	Removing Signs Type II	EACH	60.000	60.000
0360	638.3000	Removing Small Sign Supports	EACH	38.000	38.000
0370	643.0100	Traffic Control (project) 01. 1590-12-62	EACH	1.000	1.000
0380	643.0300	Traffic Control Drums	DAY	250.000	250.000
0390	643.0900	Traffic Control Signs	DAY	645.000	645.000
0400	646.0106	Pavement Marking Epoxy 4-Inch	LF	10,635.000	10,635.000
0410	646.0126	Pavement Marking Epoxy 8-Inch	LF	3,775.000	3,775.000
0420	647.0156	Pavement Marking Arrows Epoxy Type 1	EACH	3.000	3.000
0430	647.0166	Pavement Marking Arrows Epoxy Type 2	EACH	14.000	14.000
0440	647.0176	Pavement Marking Arrows Epoxy Type 3	EACH	2.000	2.000
0450	647.0356	Pavement Marking Words Epoxy	EACH	14.000	14.000
0460	647.0526	Pavement Marking Yield Line Symbols Epoxy 18-Inch	EACH	21.000	21.000
0470	647.0566	Pavement Marking Stop Line Epoxy 18-Inch	LF	246.000	246.000
0480	647.0726	Pavement Marking Diagonal Epoxy 12-Inch	LF	970.000	970.000
0490	647.0856	Pavement Marking Concrete Corrugated Median Epoxy	SF	150.000	150.000

DATE 15MAR16		E S T I M A T E O F Q U A N T I T I E S			
LINE					1590-12-62
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0500	650.8000	Construction Staking Resurfacing Reference	LF	3,005.000	3,005.000
0510	652.0220	Conduit Rigid Nonmetallic Schedule 40 1 1/2-Inch	LF	140.000	140.000
0520	652.0800	Conduit Loop Detector	LF	2,440.000	2,440.000
0530	653.0135	Pull Boxes Steel 24x36-Inch	EACH	8.000	8.000
0540	655.0700	Loop Detector Lead In Cable	LF	7,850.000	7,850.000
0550	655.0800	Loop Detector Wire	LF	5,900.000	5,900.000
0560	690.0150	Sawing Asphalt	LF	242.000	242.000
0570	690.0250	Sawing Concrete	LF	1,603.000	1,603.000
0580	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	150.000	150.000
0590	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000
0600	SPV.0105	Special 01. Remove Loop Detector Wire and Lead-In Cable STH 17S Intersection	LS	1.000	1.000
0610	SPV.0105	Special 02. Remove Loop Detector Wire and Lead-In Cable CTH G Intersection	LS	1.000	1.000

3

REMOVING PAVEMENT		
LOCATION		204.0100 SY
LOOP REPLACEMENT USH 8 & STH 17S		290
LOOP REPLACEMENT USH 8 & CTH G		338
CONCRETE CORRUGATED MEDIAN		23
BASE PATCH STA 99+00 RT		18
BASE PATCH STA 167+35 LT		34
UNDISTRIBUTED FOR BASE PATCHES		35
TOTAL:		651

REMOVING CONCRETE SURFACE PARTIAL DEPTH		
		204.0109.S SF
USH 8 & CTH A SW QUADRANT		3000
USH 8 & CTH A NE QUADRANT		2640
TOTAL:		5640

REMOVING ASPHALTIC SURFACE		
LOCATION		204.0110 SY
LOOP REPLACEMENT STH 17S/BOYCE		37
LOOP REPLACEMENT CTH G		27
TOTAL:		64

<u>BASE AGGREGATE DENSE 3/4-INCH</u>					305.0110
STATION TO STATION			LOCATION	TON	
83+95	-	100+00	UNPAVED SHOULDERS	242	
155+00	-	169+00	UNPAVED SHOULDERS	209	
TOTAL:				451	

ALL ITEMS AND QUANTITIES ON
THIS SHEET ARE CATEGORY 010
UNLESS NOTED OTHERWISE

ALL ITEMS AND QUANTITIES ON THIS SHEET ARE CATEGORY 010 UNLESS NOTED OTHERWISE

REMOVING ASPHALTIC SURFACE BUTT JOINT		
LOCATION		204.0115 SY
START OF PROJECT		27
STA 100+00		27
STH 17 S		72
STH 17 S RIGHT TURN		6
BOYCE DR		55
STA 155+00		27
CTH G N		93
CTH G S		82
END OF PROJECT		27
TOTAL:		416

REMOVING CURB & GUTTER			
			204.0150
INTERSECTION	PULLBOX	LF	
STH 17S	5	2	
STH 17S	7	2	
STH 17S	15	2	
CTH G	7	2	
CTH G	12	2	
CTH G	20	2	
CTH G	23	2	
CTH G	26	2	
TOTAL:			16

<u>BASE AGGREGATE DENSE 1 1/4-INCH</u>				305.0120
STATION TO STATION		LOCATION		TON
83+95	-	100+00	LOOP REPLACEMENT LOCATIONS	45
155+00	-	169+00	LOOP REPLACEMENT LOCATIONS	52
99+00	-	99+10	BASE PATCH	3
167+35	-	167+65	BASE PATCH	6
UNDISTRIBUTED		BASE PATCHES		6
TOTAL:				<u>112</u>

REMOVING ASPHALTIC SURFACE MILLING			
			204.0120
STATION	TO	STATION	SY
83+95	-	100+00	9675
155+00	-	169+00	8432
TOTAL:			18107

PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS				
				211.0400
STATION	TO	STATION	REMARKS	STA
85+00	-	86+84	BEAMGUARD	4
89+50	-	92+80	SHOULDER WIDENING	4
TOTAL:				8

<u>SHAPING SHOULDERS</u>				305.0500
STATION	TO	STATION	LOCATION	STA
85+65	-	92+00	MAINLINE	13
94+50	-	100+00	MAINLINE	11
	-		STH 17	3
155+00	-	160+50	MAINLINE	11
163+50	-	169+00	MAINLINE	11
TOTAL:				<u>49</u>

3

HMA PAVEMENT					
STATION TO STATION		LOCATION	TON	GALLON	TON
83+95	- 100+00		1088	581	-
155+00	- 169+00		1019	506	-
85+00	- 86+84	BEAMGUARD	29	8	-
89+50	- 92+80	SHOULDER WIDENING	30	8	-
UNDISTRIBUTED			-	-	217
TOTAL:			2167	1103	217

ASPHALTIC SURFACE	
LOCATION	TON
LOOP REPLACEMENTS STH 17S/BOYCE DR	15
LOOP REPLACEMENTS CTH G	10
TOTAL:	25

CONCRETE CURB & GUTTER 30-INCH TYPE D		
INTERSECTION	PULLBOX	LF
STH 17S	5	2
STH 17S	7	2
STH 17S	15	2
CTH G	7	2
CTH G	12	2
CTH G	20	2
CTH G	23	2
CTH G	26	2
TOTAL:		16

WATER	
LOCATION	MGAL
BASE AGGREGATE DENSE	9
TOTAL:	9

ASPHALTIC SURFACE PATCHING			
STATION TO STATION	LOCATION	TON	
83+95 - 100+00	LOOP REPLACEMENTS MAINLINE	102	
155+00 - 169+00	LOOP REPLACEMENTS MAINLINE	119	
99+00 - 99+10	BASE PATCH	7	
167+35 - 167+65	BASE PATCH	12	
UNDISTRIBUTED	BASE PATCHES	10	
UNDISTRIBUTED	PATCH AGAINST CCM	30	
TOTAL:			280

CONCRETE CORRUGATED MEDIAN		
STATION TO STATION	SF	
98+55 - 98+90	315	
UNDISTRIBUTED	150	
TOTAL:		465

LANDSCAPING & EROSION CONTROL							
625.0100	628.1905	628.1910	628.2002	629.0210	630.0120	631.0300	
TOPSOIL	MOBILIZATIONS	MOBILIZATIONS	EMAT	FERTILIZER	SEEDING	SOD	
SY	EA	EA	TYPE A	TYPE B	TYPE 20	WATER	
PULL BOX INSTALLATIONS & NEW CONNECTIONS	100	1	100	0.07	3	3	
UNDISTRIBUTED	50	-	50	0.04	2	2	
TOTAL:	150	1	150	0.11	5	5	

ALL ITEMS AND QUANTITIES ON THIS SHEET ARE CATEGORY 010 UNLESS NOTED OTHERWISE

PERMANENT SIGNING															
						638.2602	638.3000	637.2210	637.2215	637.2230	634.0616	634.0618			
						REMOVING	REMOVING	REFLECTIVE H	REFLECTIVE H	REFLECTIVE F	POSTS WOOD	POSTS WOOD			
						SIGNS	SMALL SIGN	SIGNS	SIGNS	SIGNS	4X6-INCH	4X6-INCH			
						TYPE II	SUPPORTS	TYPE II	FOLDING TYPE II	TYPE II	X 16-FT	X 18-FT			
						EACH	EACH	SF	SF	SF	EACH	EACH			
STATION	LOC	SIGN #	SIGN CODE	W	x	H							MOUNT ON SAME POST AS SIGN #	COMMENTS	
84+48	LT	1	J2-2	48	x	57	1	1	19.00	-	-	-	1	J ASSEMBLY	
			M3-1	24	x	12								WEST	
			M1-4	24	x	24								USH 8	
			M5-1L	21	x	21								TL	
			M3-4	24	x	12								NORTH	
			M1-6	24	x	24								STH 47	
			M6-1	21	x	21								UA	
85+01	RT	2	J1-1	45	x	24	1	1	7.50	-	-	1	-	J ASSEMBLY	
			M2-1	21	x	15								JCT	
			M1-6	24	x	24								STH 17	
87+65	RT	3	JH-1	24	x	45	1	1	7.50	-	-	1	-	J ASSEMBLY	
			D9-2	24	x	24								HOSPITAL	
			MB6-1	21	x	21								UA	
88+17	RT	4	D1-4	84	x	48	1	2	28.00	-	-	-	2	DESTINATION	(UA) MONICO (UA) EAGLE RIVER (LA) RHINELANDER MERRILL (RA)
88+70	LT	5					-	-	-	-	-	-		SPECIFIC SERVICE SIGN	DO NOT DISTURB
88+97	RT	6	W3-3	36	x	36	1	1	-	-	9.00	1	-	TRAFFIC SIGNALS AHEAD	
89+76	RT	7	R3-8W	54	x	30	1	1	11.25	-	-	2	-	ONLY ARROW ASSY	
90+29	LT	8					-	-	-	-	-	-		SPECIFIC SERVICE SIGN	DO NOT DISTURB - CONTACT OWNER PER SPECIAL PROVISIONS TO RELOCATE
91+34	LT	9	J4-2	48	x	36	1	1	12.00	-	-	1	-	J ASSEMBLY	
			M3-4	24	x	12								WEST	
			M1-4	24	x	24								USH 8	
			M3-1	24	x	12								NORTH	
			M1-6	24	x	24								STH 47	
91+34	LT	10	R2-1	24	x	30	1	-	5.00	-	-	1	-	SPEED LIMIT 45	RELOCATE PER PLAN
91+87	RT	11	J3-2	72	x	57	1	1	28.50	-	-	-	2	J ASSEMBLY	
			M3-1	24	x	12								NORTH	
			M1-6	24	x	24								STH 17	
			M6-1	21	x	21								UA	
			M3-1	24	x	12								SOUTH	
			M1-6	24	x	24								STH 17	
			M6-1	21	x	21								RA	
			D9-2	24	x	24								HOSPITAL	
92+40	RT	12	R1-2	36	x	31	1	1	3.88	-	-	1	-	YIELD	
92+50	MED	13	R1-1F	36	x	36	1	-	-	7.46	-	-	-	FOLDING STOP	MOUNTED ON SIGNAL
92+60	MED	14	R4-7	24	x	30	1	-	5.00	-	-	-	-	KEEP RIGHT	MOUNTED ON SIGNAL
92+75	RT	15	R1-1-F	36	x	36	1	-	-	7.46	-	-	-	FOLDING STOP	MOUNTED ON SIGNAL

ALL ITEMS AND QUANTITIES ON
THIS SHEET ARE CATEGORY 010
UNLESS NOTED OTHERWISE

3

3

PERMANENT SIGNING CONTINUED															
						638.2602	638.3000	637.2210	637.2215	637.2230	634.0616	634.0618			
						REMOVING	REMOVING	REFLECTIVE H	REFLECTIVE H	REFLECTIVE F	POSTS WOOD	POSTS WOOD			
						SIGNS	SMALL SIGN	SIGNS	SIGNS	SIGNS	4X6-INCH	4X6-INCH			
						TYPE II	SUPPORTS	TYPE II	FOLDING TYPE II	TYPE II	X 16-FT	X 18-FT			
STATION	LOC	SIGN #	SIGN CODE	W	x	H	EACH	EACH	SF	SF	SF	EACH	EACH	MOUNT ON SAME POST AS SIGN #	DESCRIPTION
COMMENTS															
92+75	RT	16	JH-1	24	x	45	1	1	-	-	-	-	-		J ASSEMBLY
			D9-2	24	x	24									HOSPITAL
			MB6-1	21	x	21									UA
92+90	LT	17	J3-5	120	x	57	1	2	47.50	-	-	-	2		J ASSEMBLY
			M3-2	24	x	12									EAST
			M1-4	24	x	24									USH 8
			M6-1	21	x	21									LA
			M3-3	24	x	12									SOUTH
			M1-6	24	x	24									STH 47
			M6-1	21	x	21									LA
			M3-3	24	x	12									SOUTH
			M1-6	24	x	24									STH 17
			M6-1	21	x	21									UA
			M3-1	24	x	12									NORTH
			M1-6	24	x	24									STH 47
			M6-1	21	x	21									RA
			M3-4	24	x	12									WEST
			M1-4	24	x	24									USH 8
			M6-1	21	x	21									RA
93+10	LT	18	R1-1-F	36	x	36	1	-	-	7.46	-	-	-		FOLDING STOP
93+20	RT	19	W12-1D	24	x	24	1	-	-	-	4.00	-	-		DOUBLE DIAGONAL ARROW
93+40	RT	20	R1-1-F	36	x	36	1	-	-	7.46	-	-	-		FOLDING STOP
93+60	LT	69	R3-6R	48	x	42	1	-	14.00	-	-	-	-		LANE CONTROL AHEAD/RT
93+65	LT	70	R3-5L	48	x	42	1	-	14.00	-	-	-	-	69	LANE CONTROL LEFT
93+80	MED	21	R1-1-F	36	x	36	1	-	-	7.46	-	-	-		FOLDING STOP
93+90	MED	22	R4-7	24	x	30	1	-	5.00	-	-	-	-		KEEP RIGHT
93+90	LT	23	R1-1-F	36	x	36	1	-	-	7.46	-	-	-		FOLDING STOP
94+20	LT	24					-	-	-	-	-	-	-		LOCAL OWNED
94+25	LT	25	R1-2	36	x	31	1	1	3.88	-	-	1	-		YIELD
94+35	RT	26	R1-2	36	x	31	1	1	3.88	-	-	1	-		YIELD
94+51	LT	27	J3-1	24	x	57	1	1	12.00	-	-	-	1		J ASSEMBLY
			M3-3	24	x	12									SOUTH
			M1-6	24	x	24									STH 17
			M6-1	21	x	21									LA
96+62	LT	28	R3-8W	54	x	30	1	1	11.25	-	-	2	-		ONLY ARROW ASSY
97+68	RT	29	I-55-56	30	x	36	1	1	7.50	-	-	1	-		ADOPT A HIGHWAY
97+68	RT	30	R14-1	24	x	18	1	-	3.00	-	-	-	-	29	TRUCK ROUTE
98+21	LT	31	W3-3	36	x	36	1	1	-	-	9.00	1	-		TRAFFIC SIGNALS AHEAD
99+79	LT	32	D1-2	84	x	30	1	2	17.50	-	-	2	-		DESTINATION
99+79	RT	33	R2-1	24	x	30	1	1	5.00	-	-	1	-		SPEED LIMIT 45
SHEET 2 SUBTOTALS:							18	11	144.51	29.84	13.00	9	3		

ALL ITEMS AND QUANTITIES ON THIS SHEET ARE CATEGORY 010 UNLESS NOTED OTHERWISE

PERMANENT SIGNING CONTINUED														
STATION	LOC	SIGN #	SIGN CODE	SIZE			638.2602	638.3000	637.2210	637.2215	637.2230	634.0616	634.0618	COMMENTS
				W	x	H	REMOVING SIGNS TYPE II EACH	REMOVING SMALL SIGN SUPPORTS EACH	REFLECTIVE H TYPE II SF	REFLECTIVE H FOLDING TYPE II SF	REFLECTIVE F TYPE II SF	POSTS WOOD 4X6-INCH X 16-FT EACH	POSTS WOOD 4X6-INCH X 18-FT EACH	
156+53	RT	34	D1-2	84	x	36	1	2	21.00	-	-	-	2	DESTINATION (LA) RHINELANDER NICOLET AREA TECHNICAL COLLEGE (RA)
158+64	RT	36	J13-1 M1-5A M6-4	24 24 21	x	45 24 21	1	1	7.50	-	-	1	-	J ASSEMBLY CTH G BA
159+48	LT	38	J4-3 M3-4 M1-4 M3-1 M1-6 M3-3 M1-6	72 24 24 24 24 24 24	x	36 12 24 12 24 12 24	1	1	18.00	-	-	2	-	J ASSEMBLY WEST USH 8 SOUTH STH 17 NORTH STH 47
160+45	LT	39	R1-1	30	x	30	1	1	5.18	-	-	1	-	STOP
161+05	MED	40	R1-1-F	36	x	36	1	-	-	7.46	-	-	-	FOLDING STOP MOUNT ON SIGNAL
161+10	RT	41	R1-2	36	x	31	1	1	3.88	-	-	1	-	YIELD
161+10	RT	42	R1-1-F	36	x	36	1	-	-	7.46	-	-	-	FOLDING STOP MOUNT ON SIGNAL
161+15	MED	43	R4-7	24	x	30	1	1	5.00	-	-	-	-	KEEP RIGHT MOUNT ON SIGNAL
161+20	LT	44	R1-1F	36	x	36	1	-	-	7.46	-	-	-	FOLDING STOP MOUNT ON SIGNAL
161+25	LT	45	W12-1D	24	x	24	1	-	-	-	4.00	-	-	DOUBLE DIAGONAL ARROW REUSE EXISTING POST
161+25	LT	46	JV				1	-	-	-	-	-	-	J ASSEMBLY USH 8 STH 47 BA
161+25	LT	47	JV M1-4 M1-6 M1-6 M6-4	24 24 24 24 21	x	93 24 24 24 21	-	-	15.50	-	-	-	-	J ASSEMBLY USH 8 STH 17 STH 47 BA REUSE EXISTING POST
161+80	LT	48	R4-7	24	x	30	1	1	5.00	-	-	-	-	KEEP RIGHT MOUNT ON SIGNAL
161+90	RT	49	R1-1F	36	x	36	1	-	-	7.46	-	-	-	FOLDING STOP MOUNT ON SIGNAL
161+95	RT	50	R4-7	24	x	30	1	-	5.00	-	-	-	-	KEEP RIGHT MOUNT ON SIGNAL
162+10	RT	51	R1-1-F	36	x	36	1	-	-	7.46	-	-	-	FOLDING STOP MOUNT ON SIGNAL
162+35	RT	52	W12-1D	24	x	24	1	-	-	-	4.00	-	-	DOUBLE DIAGONAL ARROW REUSE EXISTING POST
SHEET 3 SUBTOTALS:							16	8	86.06	37.30	8.00	5	2	

ALL ITEMS AND QUANTITIES ON THIS SHEET ARE CATEGORY 010 UNLESS NOTED OTHERWISE

PERMANENT SIGNING CONTINUED																
						638.2602	638.3000	637.2210	637.2215	637.2230	634.0616	634.0618				
						REMOVING	REMOVING	REFLECTIVE H	REFLECTIVE H	REFLECTIVE F	POSTS WOOD	POSTS WOOD				
						SIGNS	SMALL SIGN	SIGNS	SIGNS	SIGNS	4X6-INCH	4X6-INCH				
						TYPE II	SUPPORTS	TYPE II	FOLDING TYPE II	TYPE II	X 16-FT	X 18-FT				
						EACH	EACH	SF	SF	SF	EACH	EACH				
STATION	LOC	SIGN #	SIGN CODE	W	x	H							MOUNT ON	DESCRIPTION	COMMENTS	
			AS SIGN #										SAME POST			
													AS SIGN #			
162+35	RT	53	JV				1	-	-	-	-	-		J ASSEMBLY		
														BA		
														USH 8		
														STH 47		
162+35	RT	54	JV	24	x	93	-	-	15.50	-	-	-	-	J ASSEMBLY	REUSE EXISTING POST	
			M1-4	24	x	24								USH 8		
			M1-6	24	x	24								STH 17		
			M1-6	24	x	24								STH 47		
			M6-4	21	x	21								BA		
162+40	LT	55	R1-1-F	36	x	36	1	-	-	7.46	-	-	-	FOLDING STOP	MOUNT ON SIGNAL	
162+45	MED	56	R4-7	30	x	24	1	1	5.00	-	-	-	-	KEEP RIGHT	MOUNT ON SIGNAL	
162+50	LT	57	R1-2	31	x	36	1	1	3.88	-	-	1	-	YIELD		
162+55	MED	58	R1-1-F	36	x	36	1	-	-	7.46	-	-	-	FOLDING STOP	MOUNT ON SIGNAL	
163+05	RT	59	R1-1	30	x	30	1	1	5.18	-	-	1	-	STOP		
162+20	RT	60	R1-1	30	x	30	1	-	5.18	-	-	-	-	STOP	MOUNT ON SIGNAL	
164+76	LT	61	J13-1	24	x	45	1	1	7.50	-	-	1	-	J ASSEMBLY		
			M1-5A	24	x	24								CTH G		
			M6-4	21	x	21								BA		
165+50	RT	62	J4-4	96	x	45	1	2	30.00	-	-	-	2	J ASSEMBLY		
			M3-2	24	x	12								EAST		
			M1-4	24	x	24								USH 8		
			M3-3	24	x	12								SOUTH		
			M1-6	24	x	24								STH 47		
			M3-1	24	x	12								NORTH		
			M1-6	24	x	24								STH 17		
			D9-2	24	x	24								HOSPITAL		
			MB6-1	21	x	21								UA		
165+50	RT	63	R14-1	24	x	18	1	-	3.00	-	-	-	-	62	TRUCK ROUTE	
166+87	LT	64	D1-1				1	2	-	-	-	-	-	DESTINATION	NICOLET AREA	
166+87	LT	65	D1-1				1	-	-	-	-	-	-	DESTINATION	TECH COLLEGE (LA)	
															RHINELANDER (RA)	
166+87	LT	66	D1-2	90	x	36	-	-	22.50	-	-	-	2	DESTINATION	(LA) NICOLET AREA	
															TECH COLLEGE	
															RHINELANDER (RA)	
168+98	LT	67	R2-1	24	x	30	1	1	5.00	-	-	1	-	SPEED LIMIT 45		
SHEET 4 SUBTOTALS:							13	9	102.74	14.92	0.00	4	6			
TOTALS:							60	38	460.94	96.98	30.00	26	16			

3

PAVEMENT MARKING													
			646.0126	647.0726	647.0566	647.0156	647.0166	647.0170	647.0356	647.0856	647.0526		
			646.0106	8-INCH	DIAGONAL	STOP LINE	ARROW	ARROW	ARROW	WORDS	CONCRETE	YIELD LINE	
			4-INCH EPOXY	CHANNELIZING	12-INCH	18-INCH	TYPE 1	TYPE 2	TYPE 3	EPOXY	CORRUGATED	SYMBOLS	
			WHITE	YELLOW	WHITE EPOXY	EPOXY	EPOXY	EPOXY	EPOXY	"ONLY"	MEDIAN EPOXY	EPOXY 18-INCH	
STATION TO STATION			LF	LF	LF	LF	LF	EACH	EACH	EACH	SF	EACH	
83+95	-	100+00	2930	2990	2015	405	98	1	9	2	7	150	7
155+00	-	169+00	2210	2505	1760	565	148	2	5	0	7	0	14
SUBTOTAL:			5140	5495									
TOTAL:			10635		3775	970	246	3	14	2	14	150	21

TRAFFIC CONTROL				
		643.0100		
		TRAFFIC	643.0300	643.0900
		CONTROL	DRUMS	SIGNS
		1580-29-70		
LOCATION	COMMENTS	EACH	DAYS	DAYS
PROJECT	1590-12-62	1	-	-
ADVANCE WARNING		-	-	570
UNDISTRIBUTED	FOR LOOP REPLACEMENTS	-	250	75
TOTALS:		1	250	645

CONSTRUCTION STAKING RESURFACING REFERENCE						
		650.8000				
		LF				
PROJECT		3005				
TOTAL:		3005				

SAWING ASPHALT			SAWING CONCRETE		
		690.0150			690.0250
		LF			LF
LOCATION			LOCATION		
LOOP REPLACEMENT USH 8 & STH 17S		146	MEDIAN PATCH		90
LOOP REPLACEMENT USH 8 & CTH G		96	LOOP REPLACEMENT USH 8 & STH 17S		632
TOTAL:		242	LOOP REPLACEMENT USH 8 & CTH G		626
			BASE PATCH STA 99+00 RT		56
			BASE PATCH STA 167+35 LT		74
			UNDISTRIBUTED FOR BASE PATCHES		125
			TOTAL:		1603

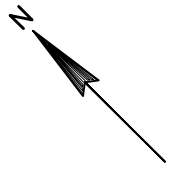
REMOVE LOOP DETECTOR WIRE AND LEAD-IN CABLE				
		SPV.0105.01	SPV.0105.02	
		STH 17S	CTH G	
		INTERSECTION	INTERSECTION	
LOCATION		LS	LS	
USH 8 & STH 17S/BOYCE RD INTERSECTION		1	0	
USH 8 & CTH G INTERSECTION		0	1	
TOTAL:		1	1	

ALL ITEMS AND QUANTITIES ON THIS SHEET ARE CATEGORY 010 UNLESS NOTED OTHERWISE				
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TRAFFIC SIGNALS							
			652.0220	652.0800	653.0135	655.0700	655.0800
			CONDUIT NONMETALLIC	CONDUIT	PULL BOX	LOOP	LOOP
			SCHEDULE 40	LOOP	STEEL	DETECTOR	DETECTOR
			1 1/2-INCH	DETECTOR	24x36-INCH	LEAD-IN CABLE	WIRE
LOOP #	SIZE (FT)	TURNS	LF	LF	EA	LF	LF
USH 8 & STH 17S / BOYCE DR INTERSECTION							
11	6 x 20	3	-	90	-	115	190
12	6 x 20	3	-	70	-	115	180
21	6 x 14	4	70	50	1	625	170
31	6 x 20	3	-	100	-	120	210
32	6 x 20	3	-	90	-	120	200
41	6 x 20	4	-	90	1	425	240
42	6 x 20	3	-	90	-	205	190
43	6 x 20	3	-	80	-	205	180
51	6 x 20	3	-	90	-	240	190
52	6 x 20	3	-	70	-	240	180
61	6 x 18	4	70	60	1	335	210
71	6 x 20	3	-	100	-	205	210
72	6 x 20	3	-	90	-	205	200
81	6 x 18	4	-	60	1	355	210
82	6 x 20	3	-	90	-	120	190
83	6 x 20	3	-	80	-	120	180
SUBTOTAL:			140	1300	4	3750	3130
USH 8 & CTH G INTERSECTION							
11	6 x 20	3	-	80	-	130	190
12	6 x 20	3	-	70	-	130	170
21	6 x 6	4	-	40	1	765	120
31	6 x 20	3	-	80	-	125	190
32	6 x 20	3	-	80	-	125	190
41	6 x 12	4	-	70	1	365	170
42	6 x 20	3	-	70	-	250	170
43	6 x 20	3	-	70	-	250	180
51	6 x 20	3	-	80	-	275	190
52	6 x 20	3	-	70	-	275	170
61	6 x 8	4	-	50	1	290	130
71	6 x 20	3	-	80	-	250	190
72	6 x 20	3	-	80	-	250	190
81	6 x 10	4	-	80	1	370	180
82	6 x 20	3	-	70	-	125	170
83	6 x 20	3	-	70	-	125	170
SUBTOTAL:			0	1140	4	4100	2770
TOTAL:			140	2440	8	7850	5900

PROJECT NO: 1590-12-62		HWY: USH 8		COUNTY: ONEIDA		MISCELLANEOUS QUANTITIES			SHEET:		E
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3



PI STA 88+00
DELTA 7°23'09"
T 211.32'
L 422.05'
R 2724'
SE 3.1%

BEGIN CONSTRUCTION
USH 8 & STH 17S INTERSECTION
STA 83+95

BEGIN PROJECT
1590-12-62
STA 83+95

EXISTING BEAMGUARD TO REMAIN
DO NOT DISTURB AREA BEHIND BEAMGUARD

WIDEN PAVED SHOULDER TO FACE OF BEAMGUARD
PREPARING FOUNDATION FOR ASPHALTIC SHOULDERS REQUIRED
4" HMA PAVEMENT REQUIRED
2" LOWER AND 2" UPPER LIFTS

TAPER BACK TO EXISTING PAVED
SHOULDER AT 15:1

PROPOSED EDGE OF PAVED SHOULDER

EXISTING EDGE OF PAVED SHOULDER

PC: 85+89.00

84+00

85+00

86+00

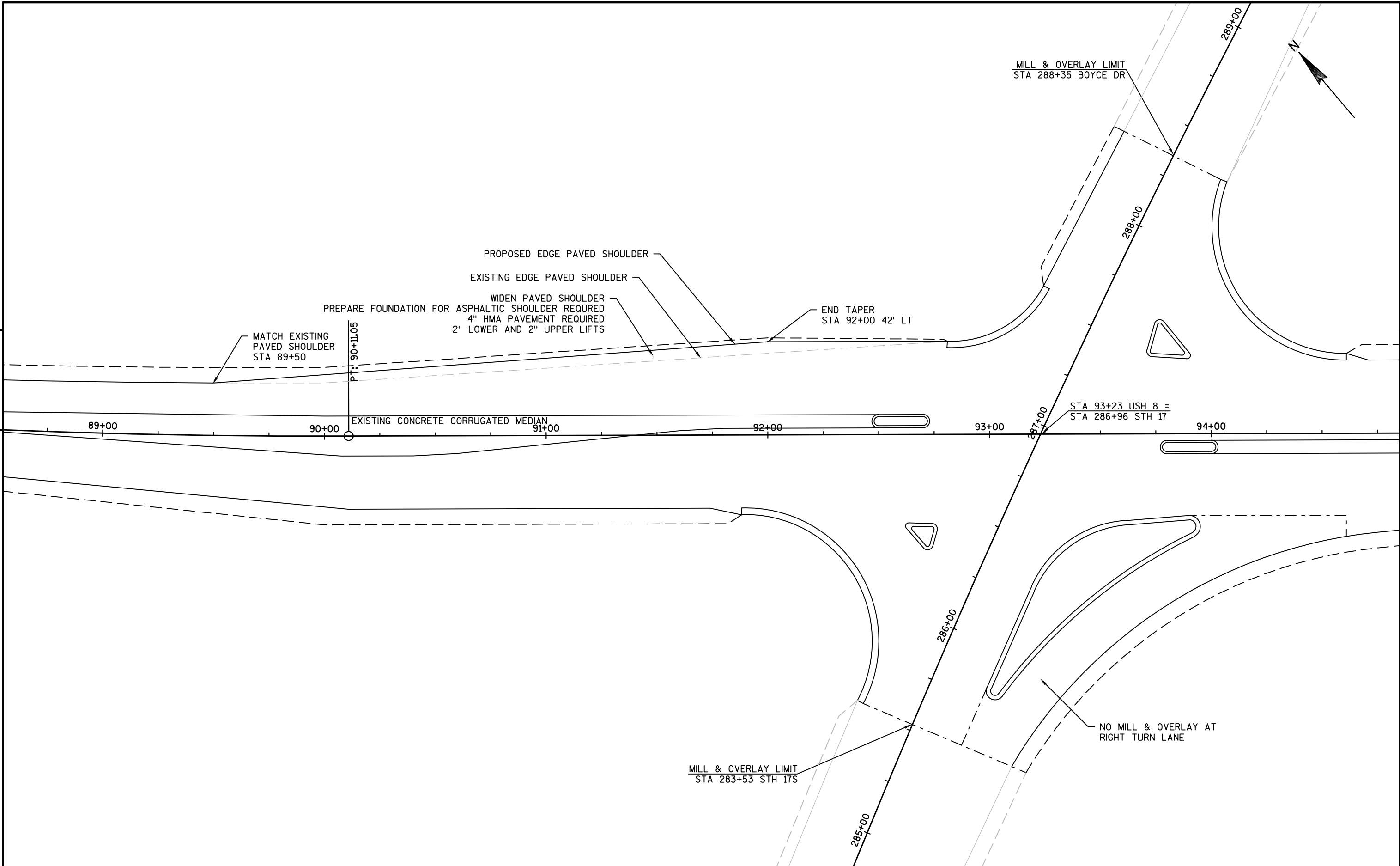
87+00

88+00

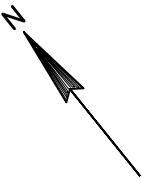
89+00

5

5



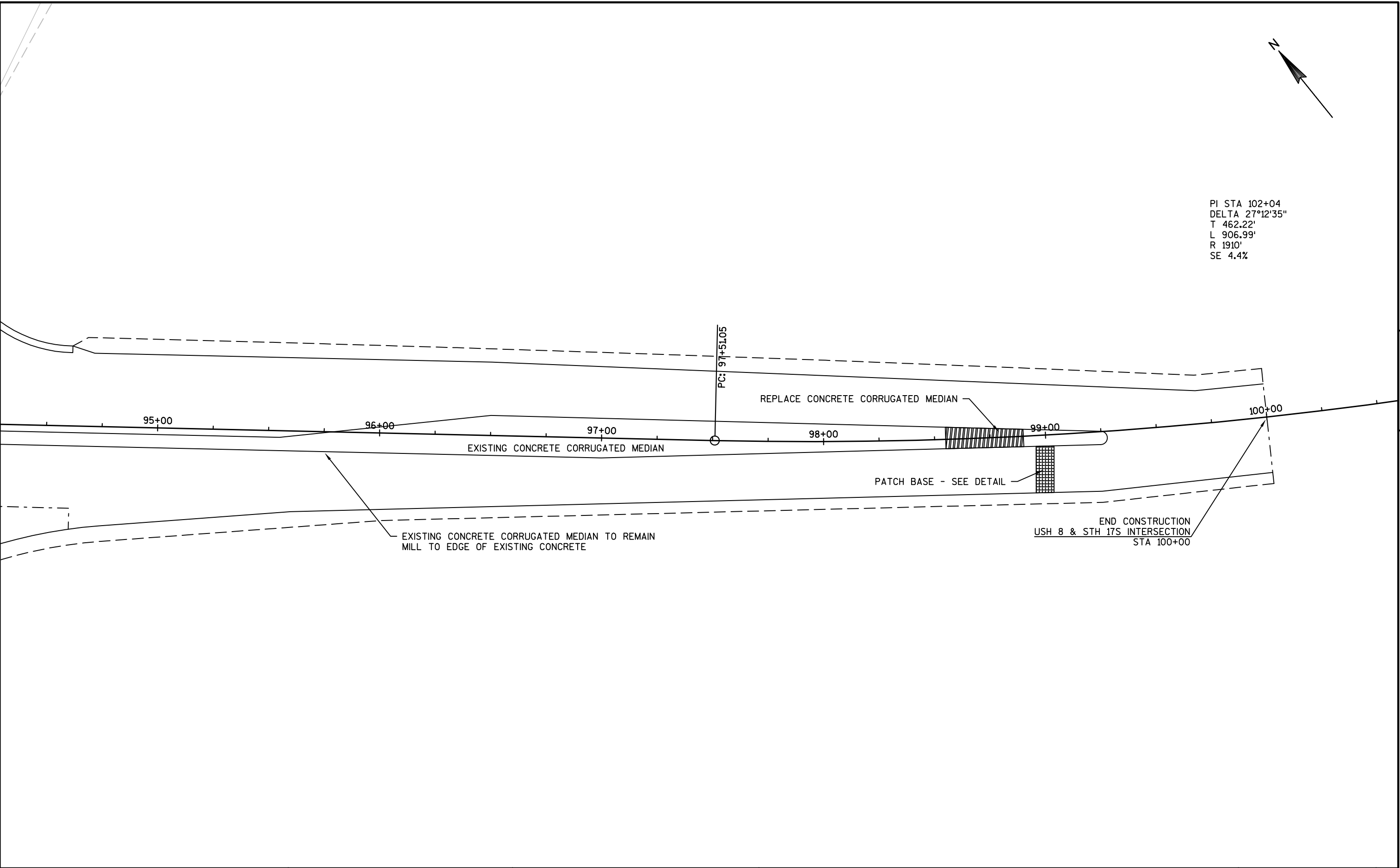
PROJECT NO:1590-12-62	HWY:USH 8	COUNTY:ONEIDA	USH 8 & STH 17S INTERSECTION	SHEET	E
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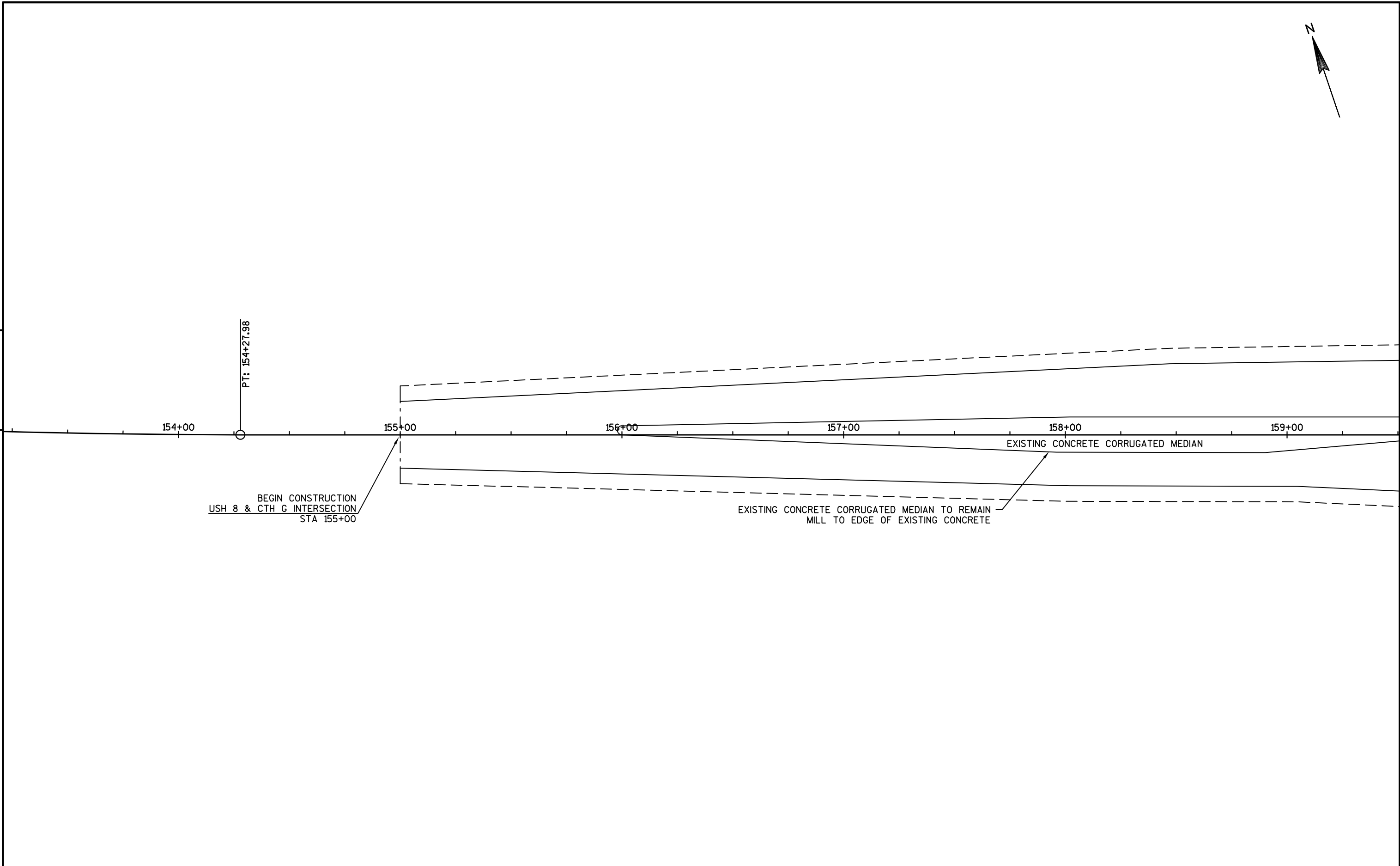
PI STA 102+04
DELTA 27°12'35"
T 462.22'
L 906.99'
R 1910'
SE 4.4%

5

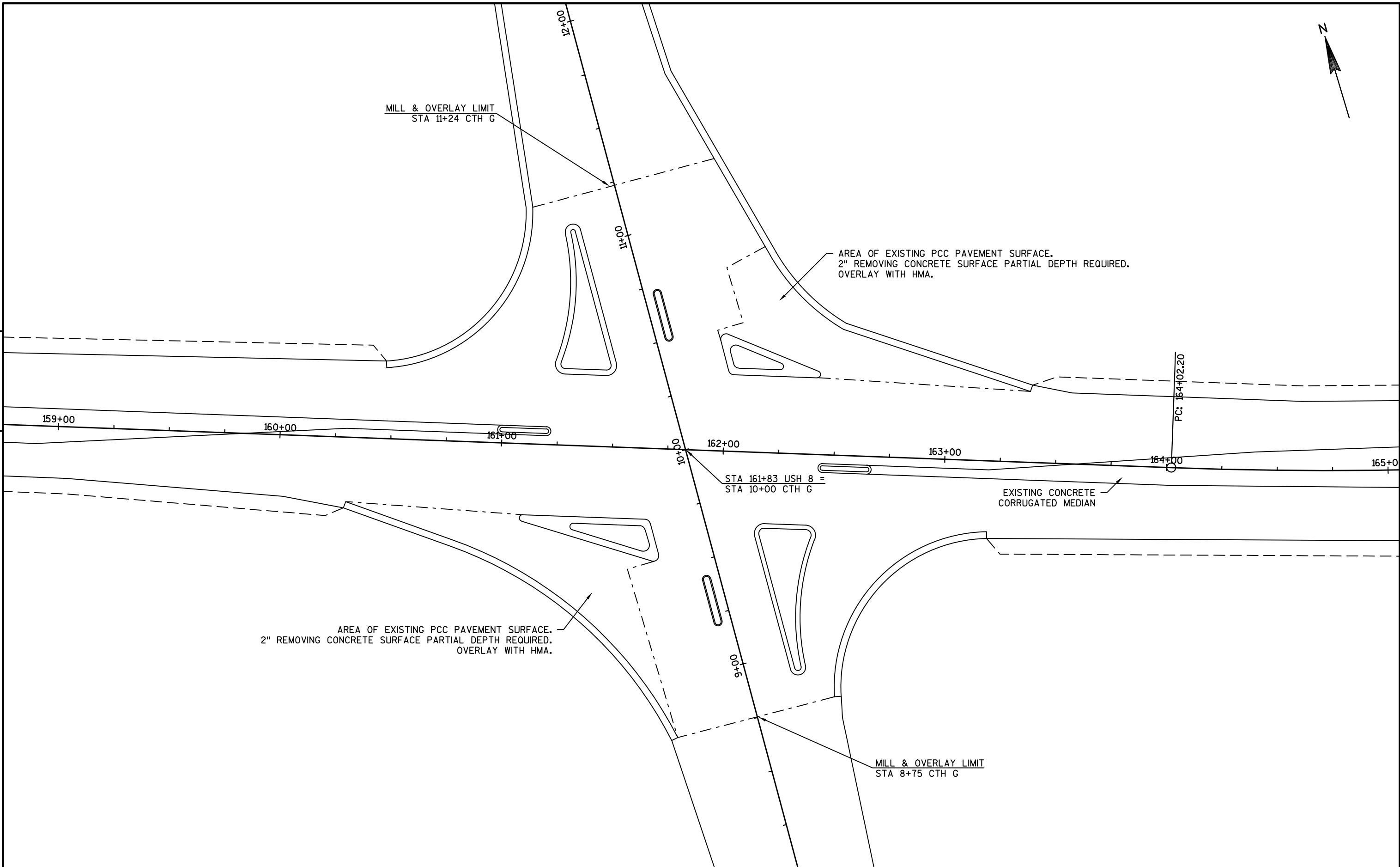
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PROJECT NO:1590-12-62	HWY:USH 8	COUNTY:ONEIDA	USH 8 & STH 17S INTERSECTION	SHEET	E
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PROJECT NO:1590-12-62	HWY:USH 8	COUNTY:ONEIDA	USH 8 & CTH G INTERSECTION	SHEET	E
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PI STA 167+37
DELTA 19°52'59"
T 334.75'
L 662.77'
R 1910'
SE 5.6%

165+00

166+00

167+00

168+00

169+00

170+00

PATCH BASE - SEE DETAIL

EXISTING CONCRETE CORRUGATED MEDIAN

END PROJECT
1590-12-62
STA 169+00

END CONSTRUCTION
USH 8 & CTH G INTERSECTION
STA 169+00

5

5

Standard Detail Drawing List

09B04-11	PULL BOX
09F15-04B	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)
11B01-05	CONCRETE CORRUGATED MEDIAN
15C04-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-12B	PAVEMENT MARKING WORDS
15C07-12C	PAVEMENT MARKING ARROWS
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16B	PAVEMENT MARKING (INTERSECTIONS)
15C08-16E	PAVEMENT MARKING (LEFT TURN LANE)
15C08-16F	PAVEMENT MARKING (ISLANDS)
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C20-01	YIELD MARKING
15D28-02	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	E	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2	26 1/2	26 1/2	26 1/2
FRAME	F	8 1/2	8 1/2	8 1/2	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2
FRAME	G	11 1/2	11 1/2	11 1/2	17 1/2	17 1/2	17 1/2	23 1/2	23 1/2	23 1/2
WEIGHT IN POUNDS *										
FRAME AND COVER		60	60	60	110	110	110	155	155	155

* THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.

** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.

GENERAL NOTES

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

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR TRAFFIC LOADS.

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

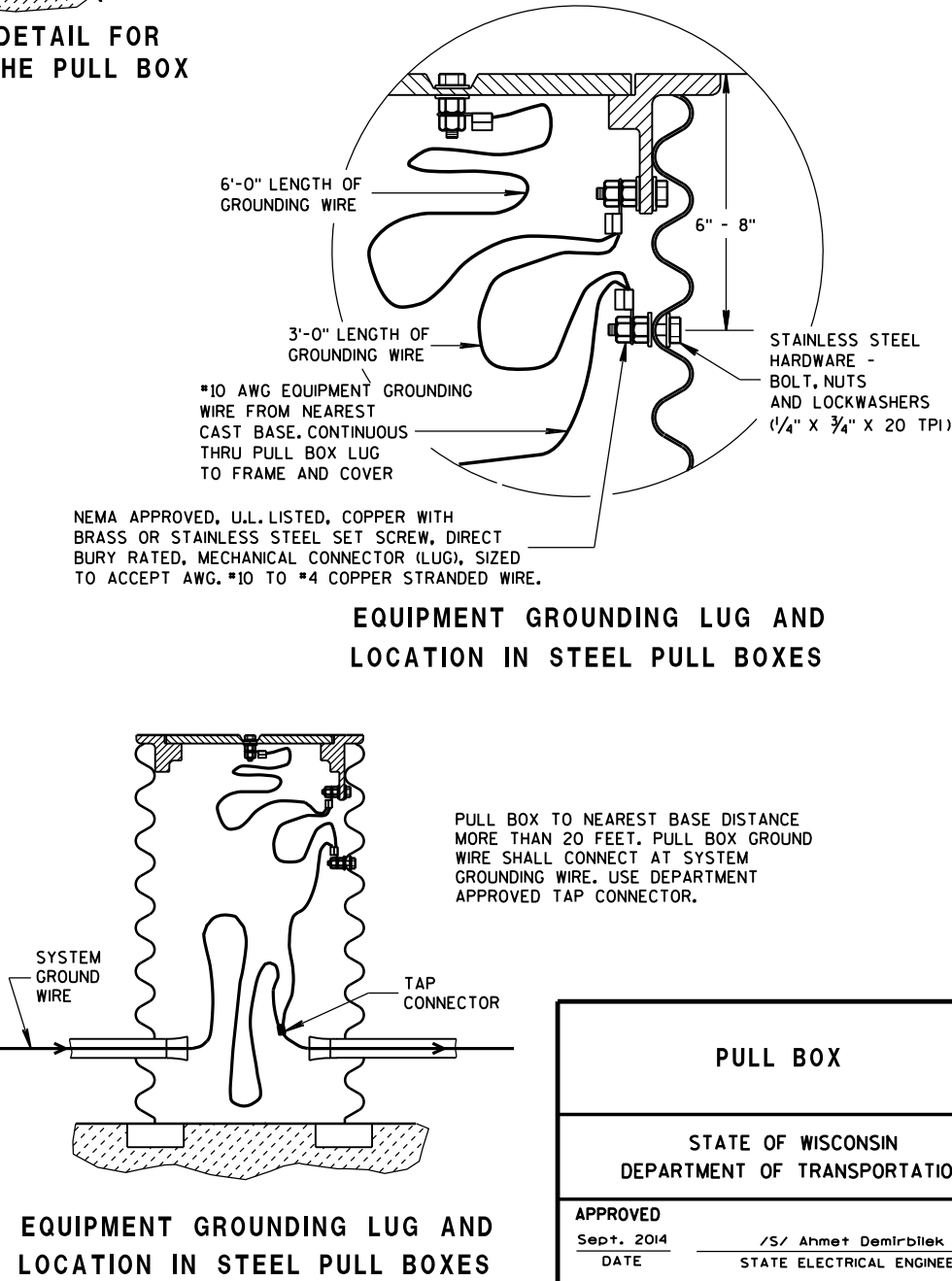
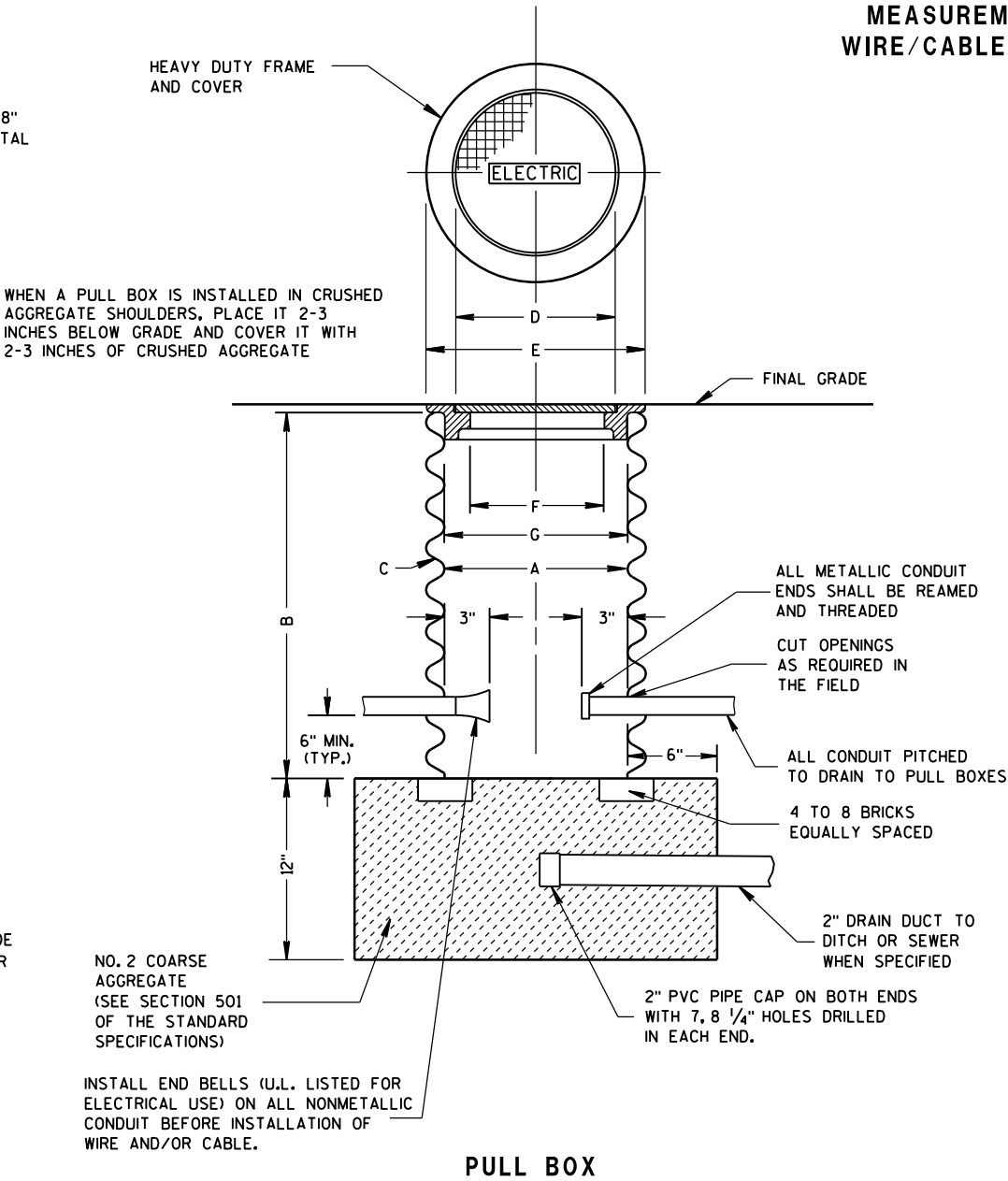
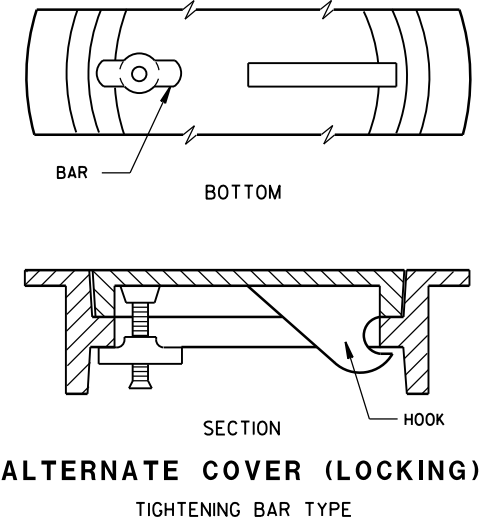
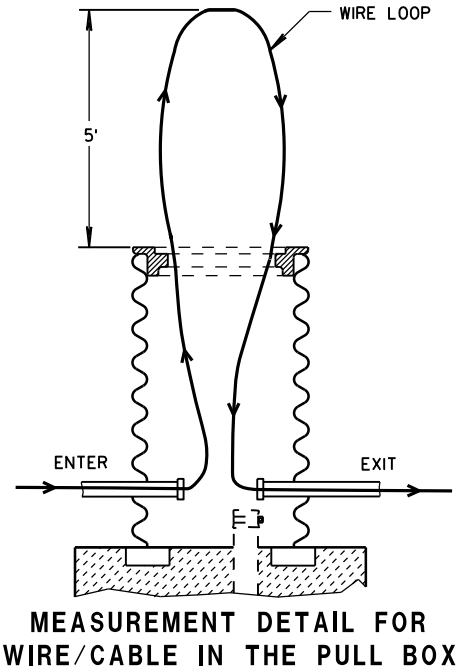
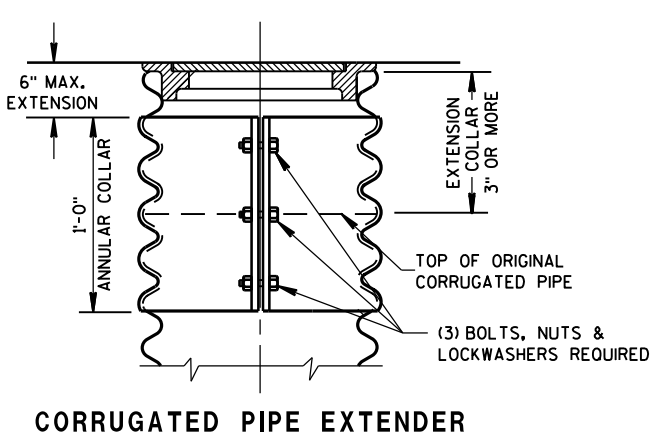
ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

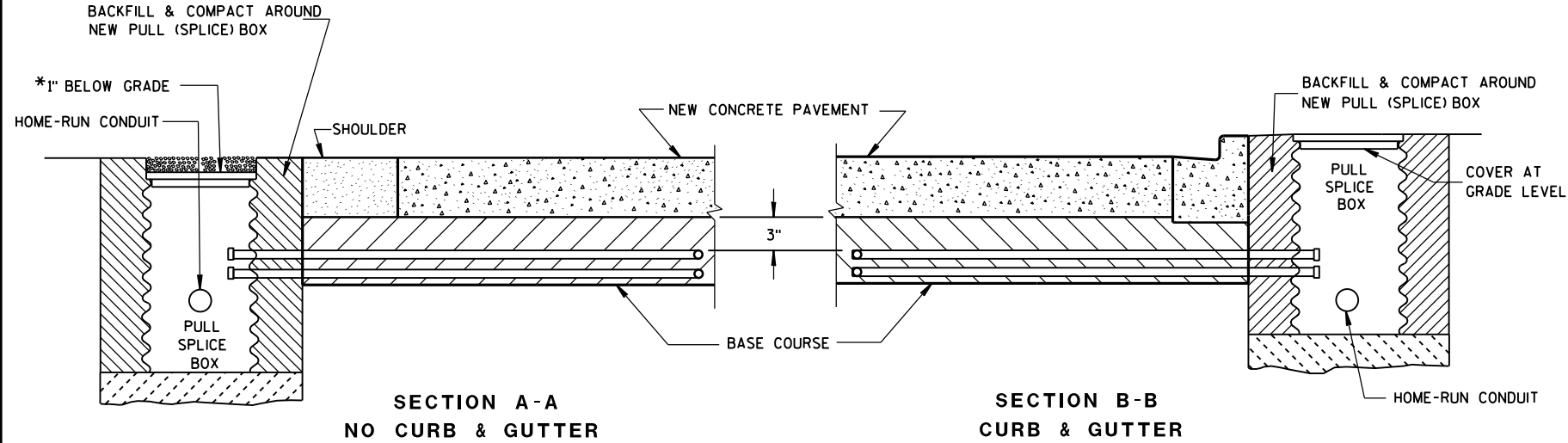
THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.





*RECESS PULL (SPlice) BOX SO THAT THE COVER IS 3\"/>

LOOP DETECTOR INSTALLATION DETAIL

GENERAL NOTES

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

LOOP SIZE, CONFIGURATION LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL (SPlice) BOX.

SPICES SHALL BE INSTALLED BY USING CAST IN PLACE SPICE KITS LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST OR AN ENGINEER APPROVED EQUAL. NON-INSULATED BUTT SPICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPlicing THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READINGS TO THE PROJECT ENGINEER FOR EVALUATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

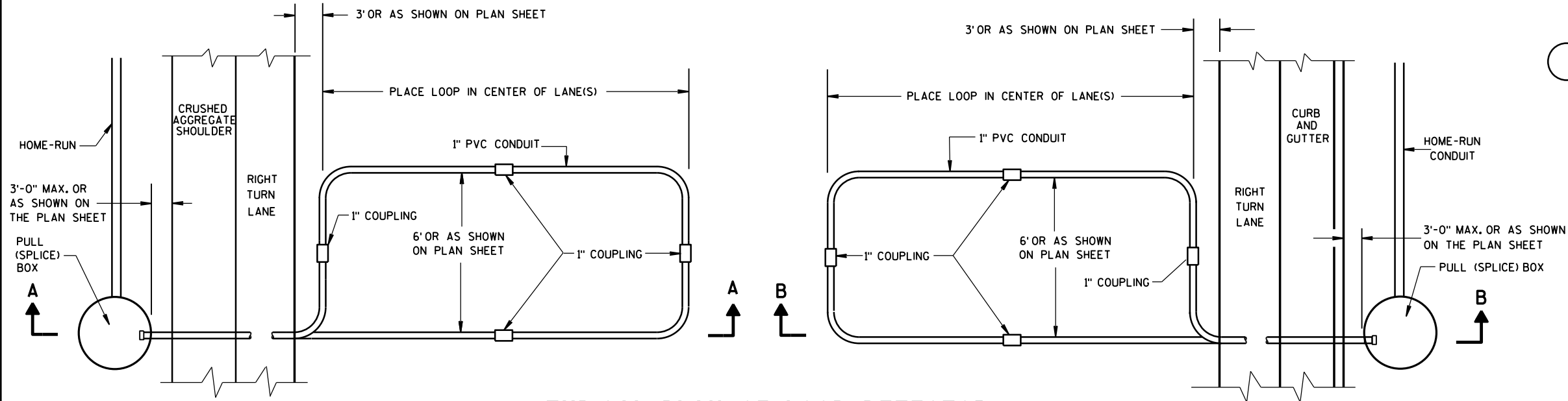
THE #12 AWG. LOOP WIRE IN THE PULL (SPlice) BOX SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE BEING SPliced TO THE LOOP LEAD-IN CABLE.

SPICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL (SPlice) BOXES AT THE SIDE OF THE ROAD.

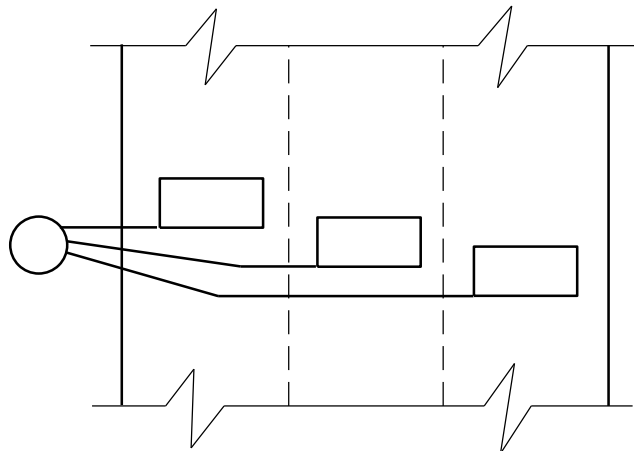
THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL (SPlice) BOX, THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL (SPlice) BOX, AND BE INSTALLED IN ONE, NON-SPliced CONTINUOUS LENGTH.

PROTECTION OF THE CONDUITS IN THE BASE COURSE SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW PAVEMENT IS INSTALLED.

SHOULD INSTALLATION REPAIR BE REQUIRED, IT SHALL BE DONE UNDER THE DIRECTION OF THE PROJECT ENGINEER.



**TYPICAL PLAN OF LOOP DETECTOR
WITH 24\"/>**

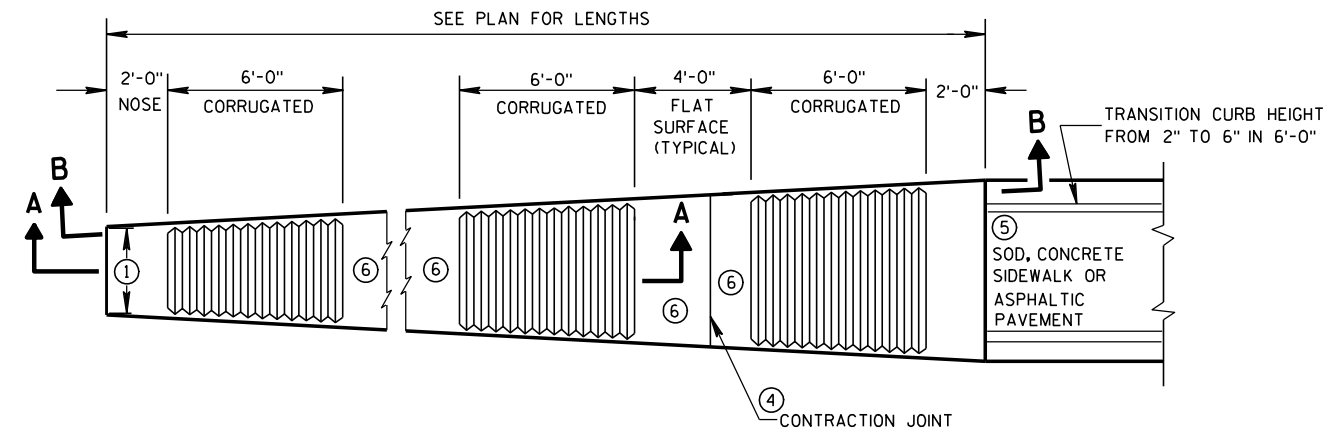


MULTI-LANE INSTALLATION

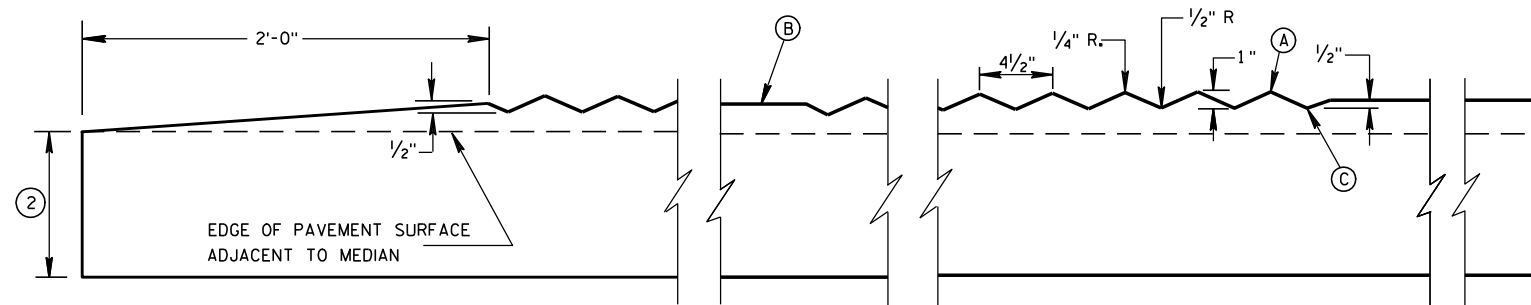
LOOP DETECTOR INSTALLED IN
BASE COURSE WITH PULL (SPlice)
BOX OFF ROADWAY
(OPTION 2)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

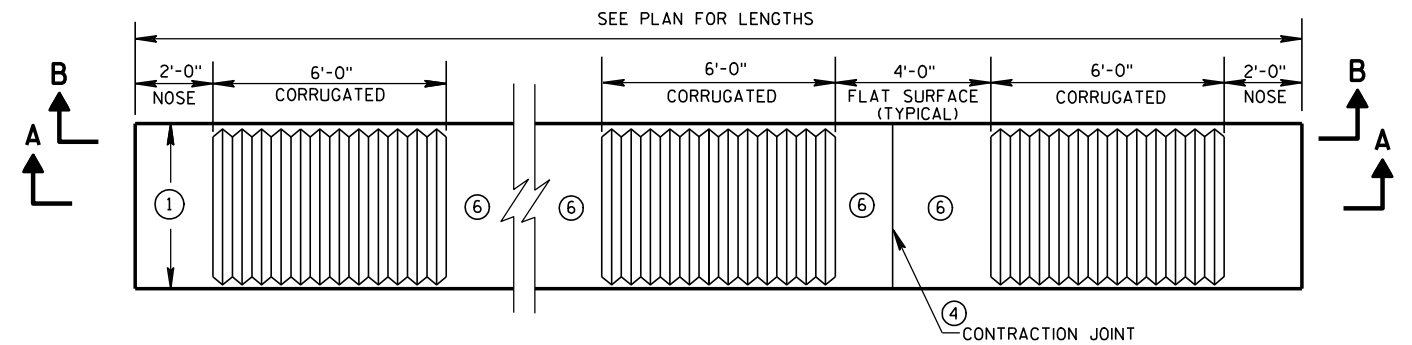
APPROVED
DATE: Sept. 2014
STATE ELECTRICAL ENGINEER: /S/ Ahmet Demirelek
FHWA



PLAN VIEW
VARIABLE WIDTH CONCRETE CORRUGATED MEDIAN



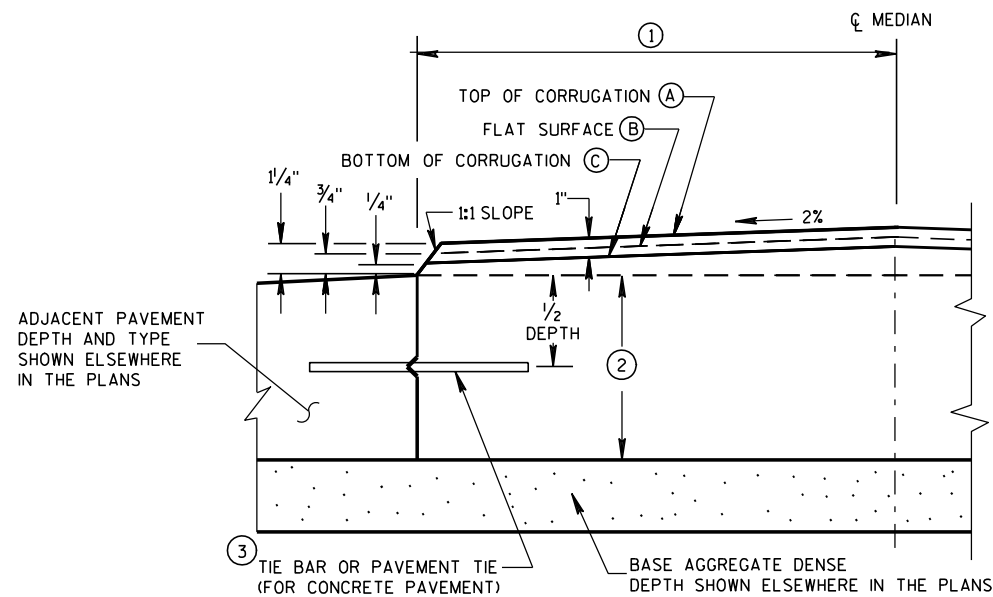
SECTION A-A
LONGITUDINAL SECTION



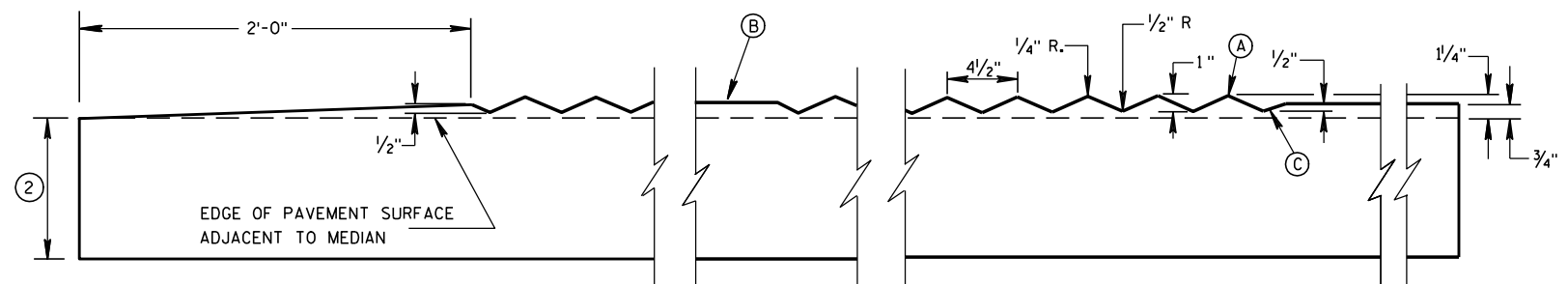
PLAN VIEW
UNIFORM WIDTH CONCRETE CORRUGATED MEDIAN

GENERAL NOTES

- ① SEE PLANS FOR CONSTANT OR VARIABLE WIDTH.
- ② THE DEPTH OF THE CONCRETE CORRUGATED MEDIAN SHALL BE 9-INCHES UNLESS SHOWN OTHERWISE IN THE PLAN. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN IN THE PLAN. TYPICAL OPTIONS ARE:
(1) NEW OR EXISTING CONCRETE PAVEMENT.
(2) ASPHALTIC CONCRETE OVER NEW OR EXISTING CONCRETE BASE COURSE, OR PAVEMENT.
(3) ASPHALTIC PAVEMENT OVER BASE AGGREGATE DENSE.
- ③ TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C. INSTALL TIE BARS TO MAINTAIN A MINIMUM OF 3-INCHES OF COVER BETWEEN THE TIE BAR AND THE CONCRETE SURFACE (BOTTOM AND TOP).
PAVEMENT TIES REQUIRED IN EXISTING CONCRETE PAVEMENT OR CONCRETE BASE COURSE, PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.
- ④ CONCRETE CORRUGATED MEDIAN CONTRACTION JOINTS SHALL BE CONSTRUCTED TO MATCH THE JOINTS IN ADJACENT CONCRETE PAVEMENT. WHERE ADJACENT PAVEMENT IS ASPHALT WITH BASE AGGREGATE DENSE, TRANSVERSE CONTRACTION JOINTS SHALL BE PROVIDED AT 20 FOOT INTERVALS.
- ⑤ SURFACE TYPE AND DETAILS ARE DEFINED ELSEWHERE IN THE PLAN.
- ⑥ YELLOW MARKING ON FLAT SURFACE WHEN MEDIAN SEPARATES OPPOSING TRAFFIC.



HALF CROSS SECTION
② CONCRETE CORRUGATED MEDIAN AND ADJACENT PAVEMENT



SECTION B-B
LONGITUDINAL SECTION

CONCRETE CORRUGATED MEDIAN

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

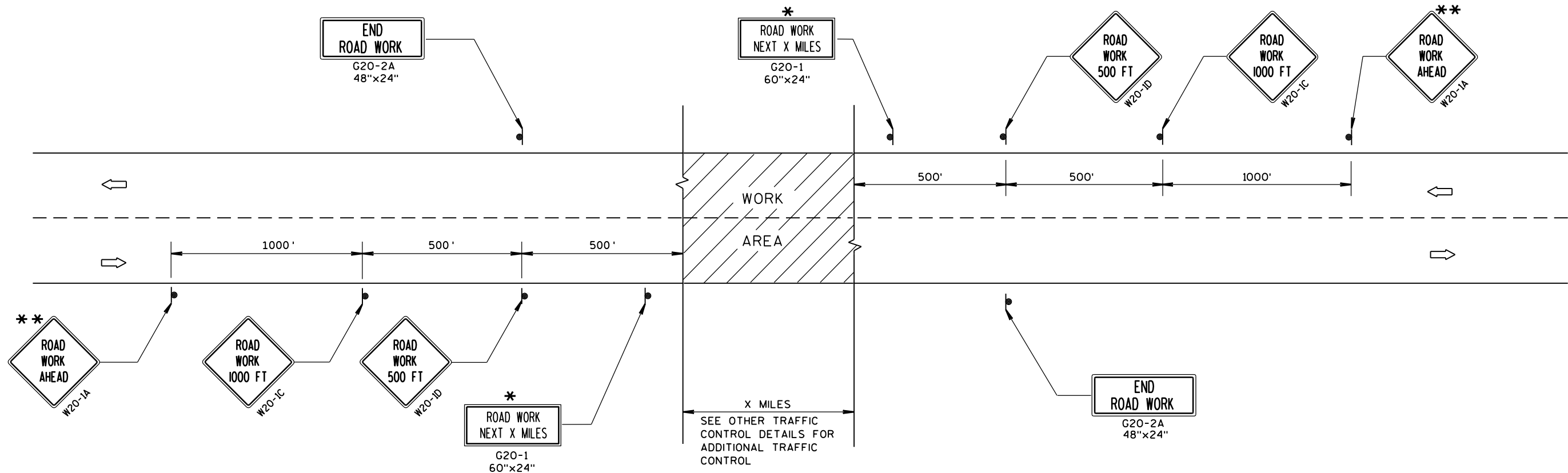
APPROVED

12/17/07

DATE

FHWA

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT
ENGINEER



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

GENERAL NOTES

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

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.

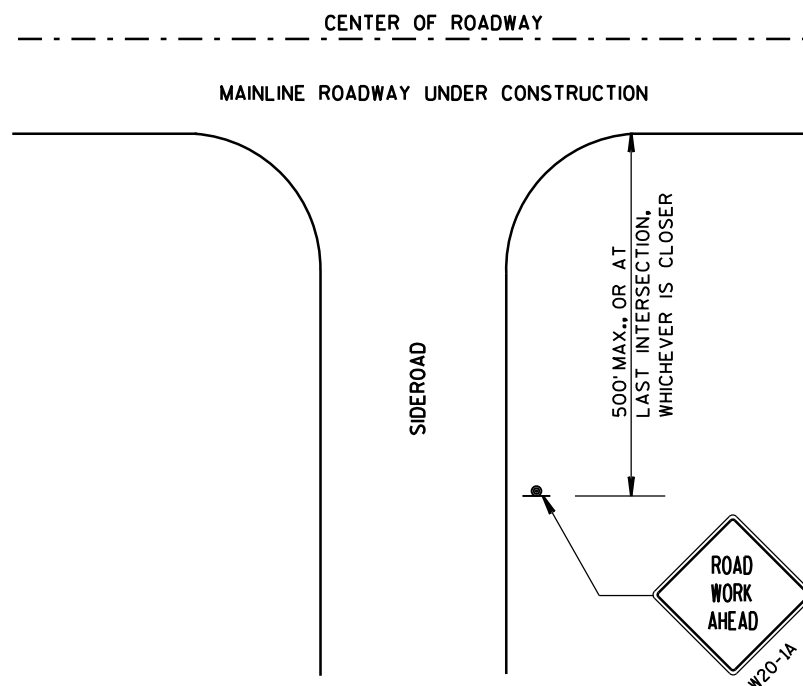
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

** PLACE ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



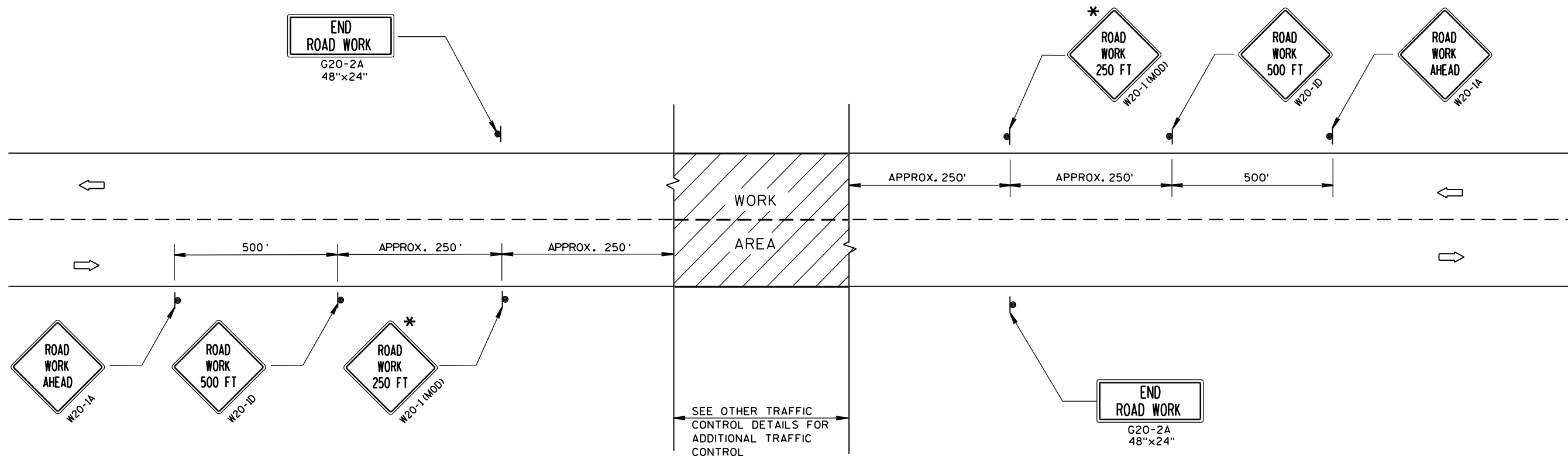
LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE
WARNING SIGNS 45 M.P.H.
OR GREATER TWO-WAY
UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2015 /S/ Peter Amokobe Atepe
DATE STATEWIDE WORK ZONE TRAFFIC
FHWA SAFETY ENGINEER



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

GENERAL NOTES

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

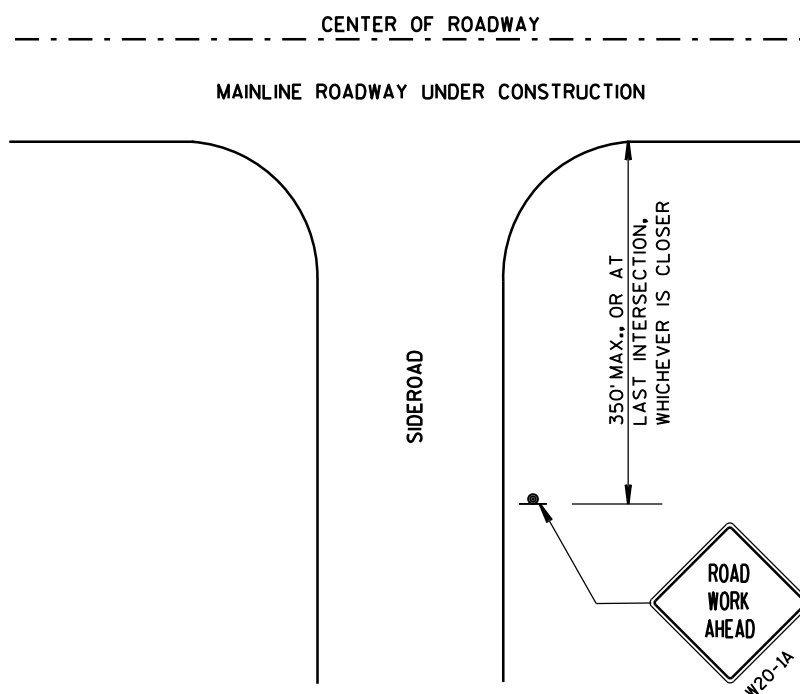
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS.

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

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FT" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE
WARNING SIGNS 40 M.P.H.
OR LESS TWO-WAY UNDIVIDED
ROAD OPEN TO TRAFFIC

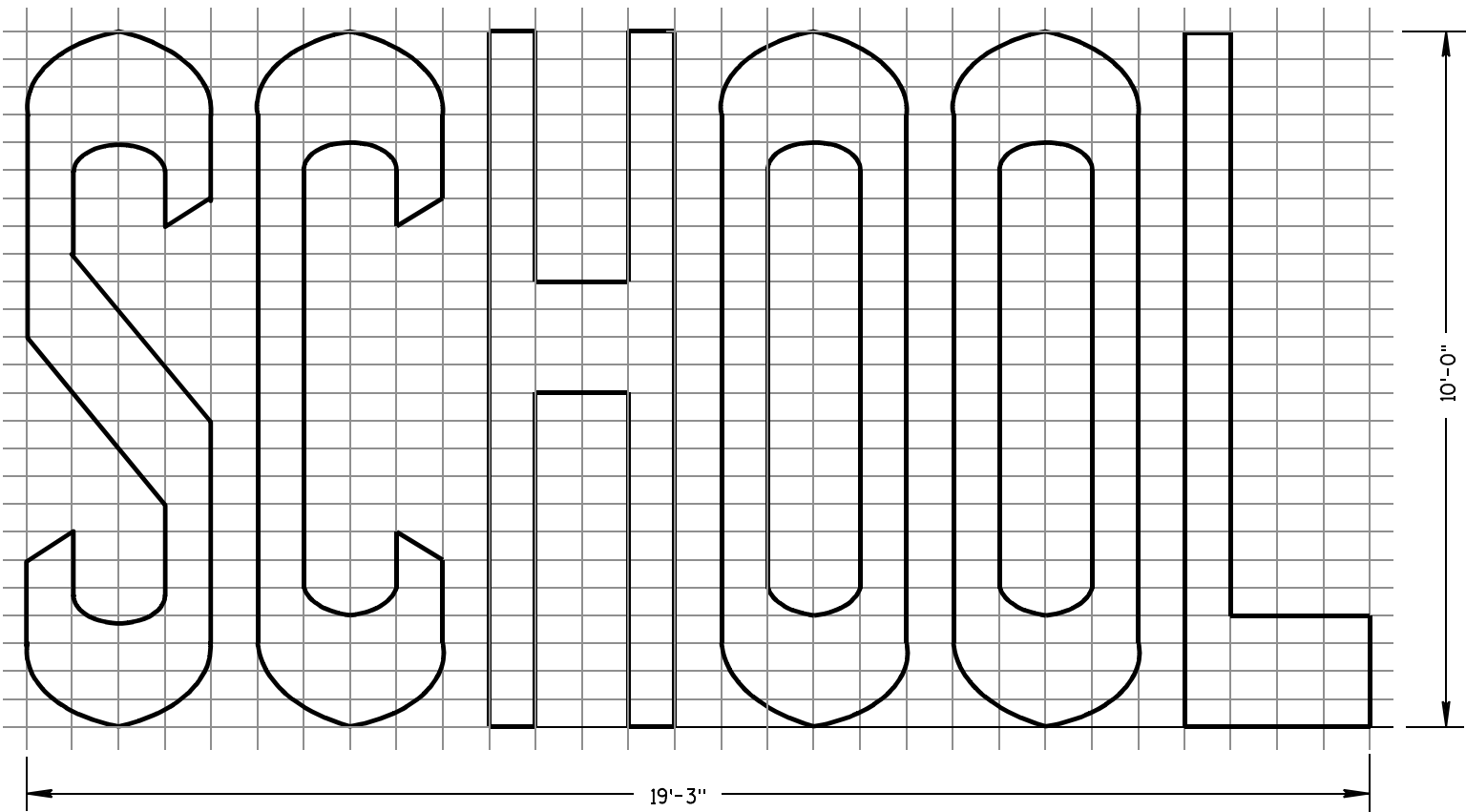
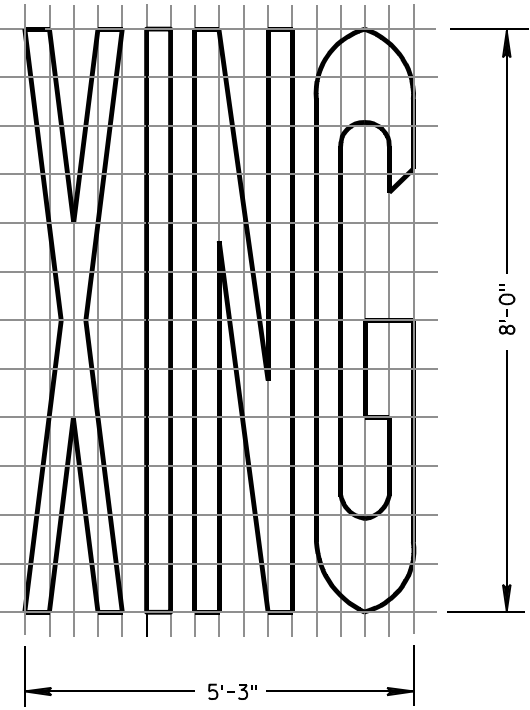
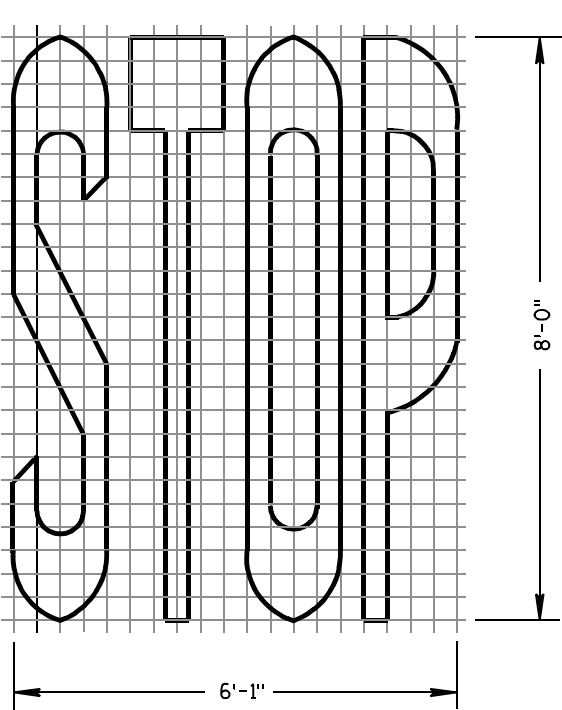
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2015 /S/ Peter Amakobe Atepe
DATE STATEWIDE WORK ZONE TRAFFIC
FHWA SAFETY ENGINEER

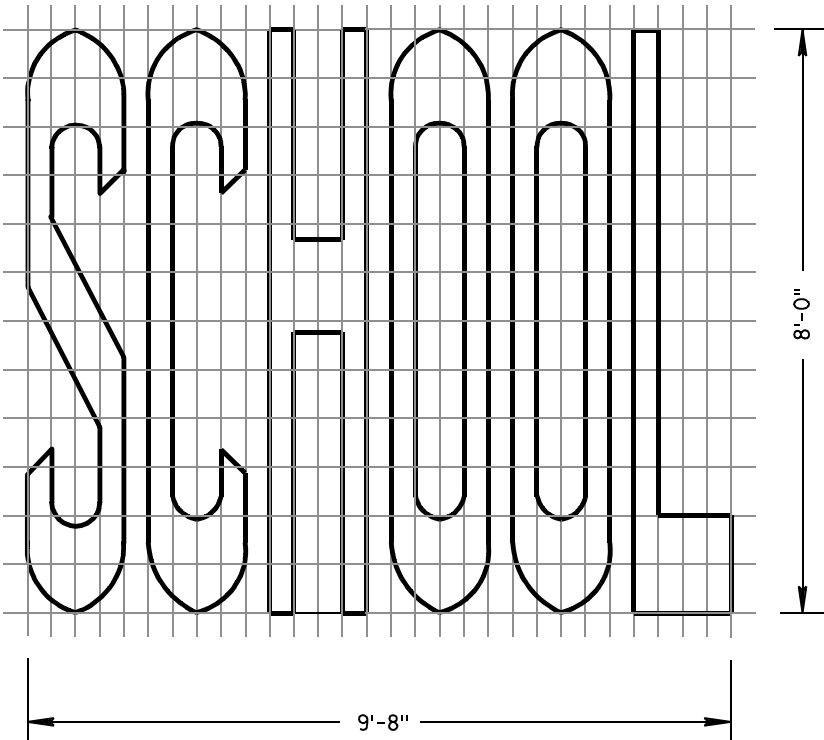
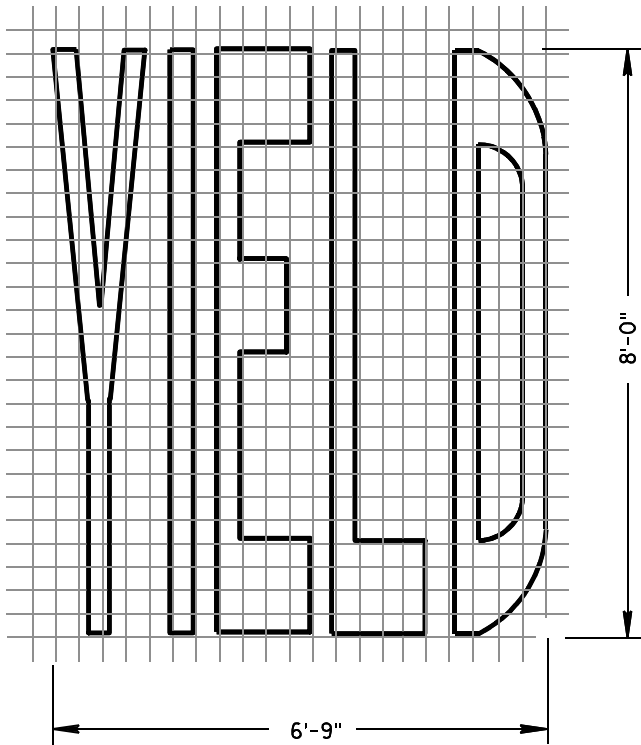
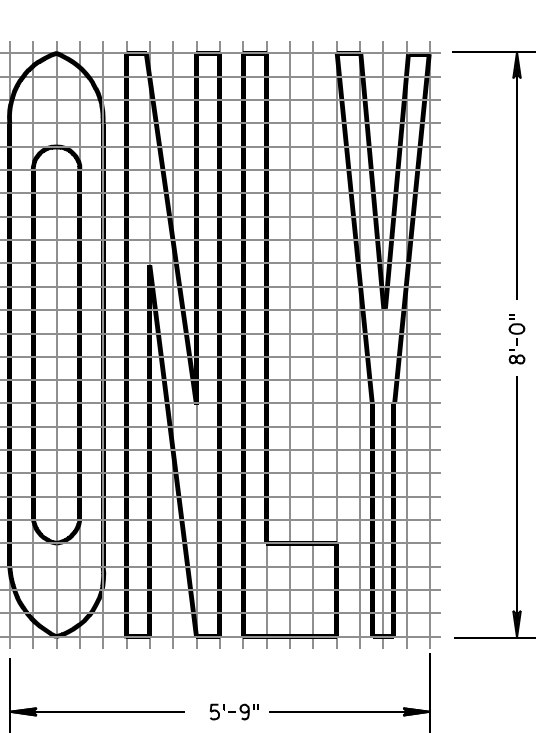
GENERAL NOTES

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.

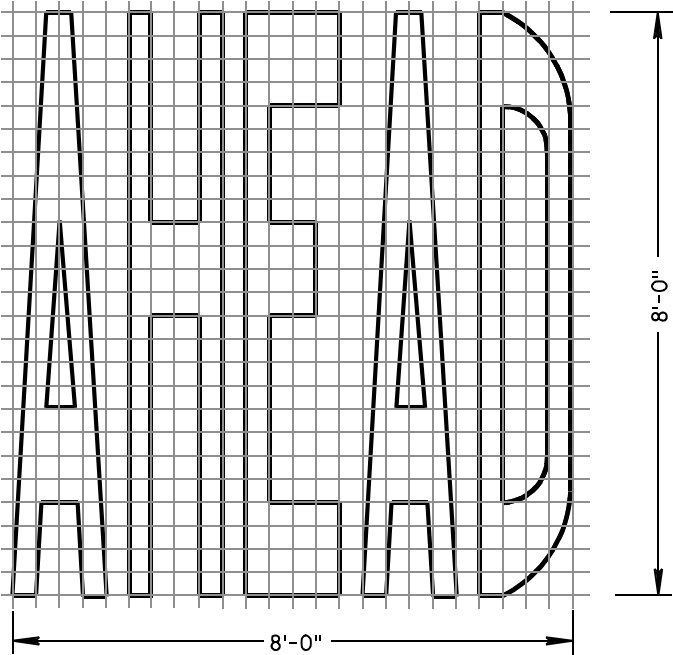
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES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



TWO-LANE



SINGLE-LANE



PAVEMENT MARKING WORDS

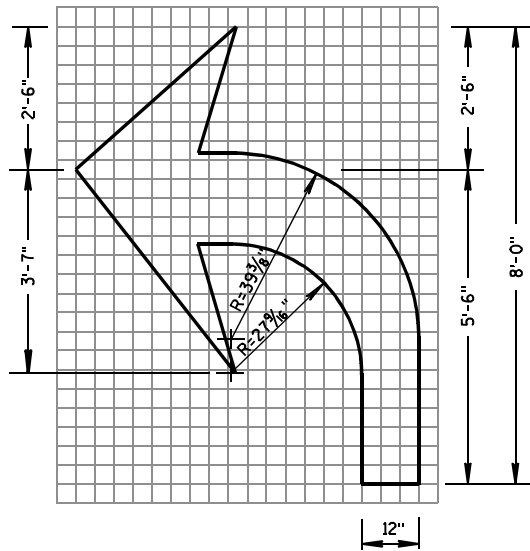
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

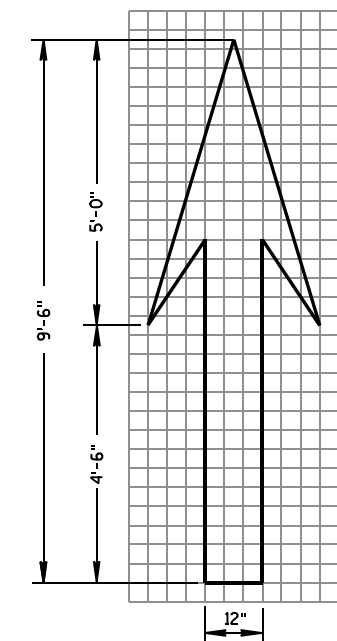
7-1-11
DATE

/S/ Thomas N. Notbohm
STATE TRAFFIC ENGINEER OF DESIGN

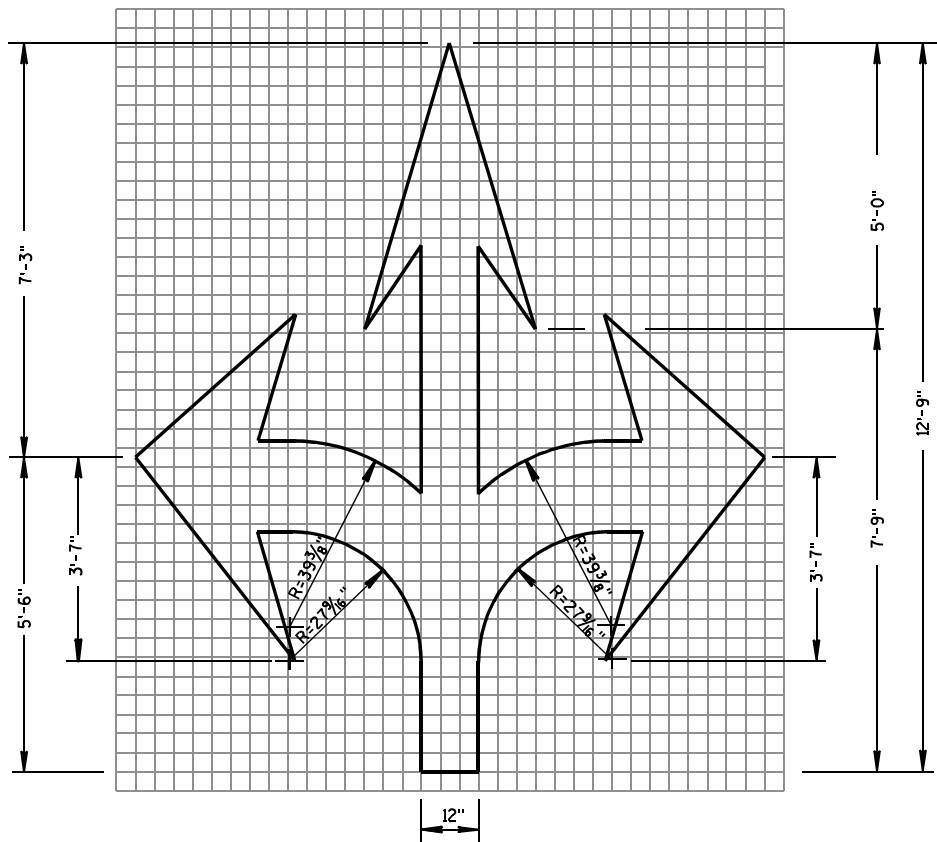
FHWA



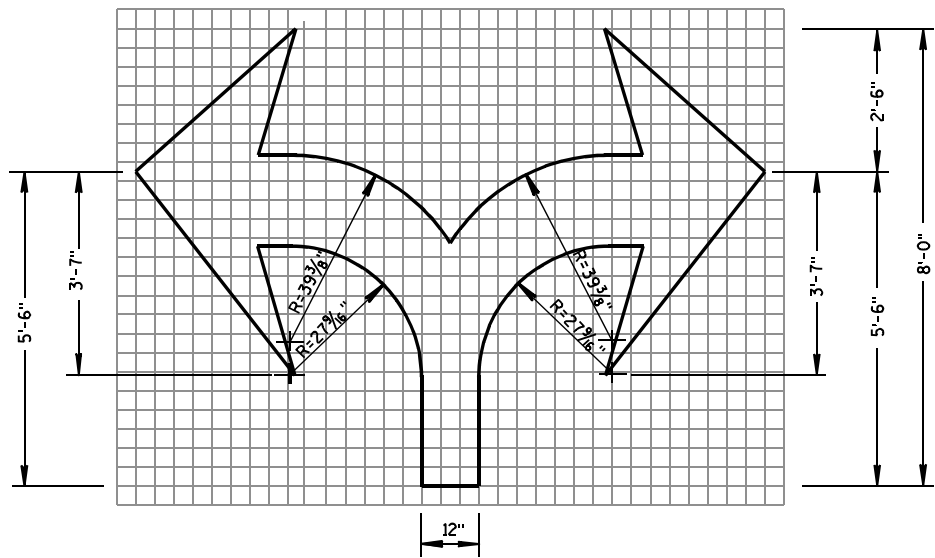
TYPE 2



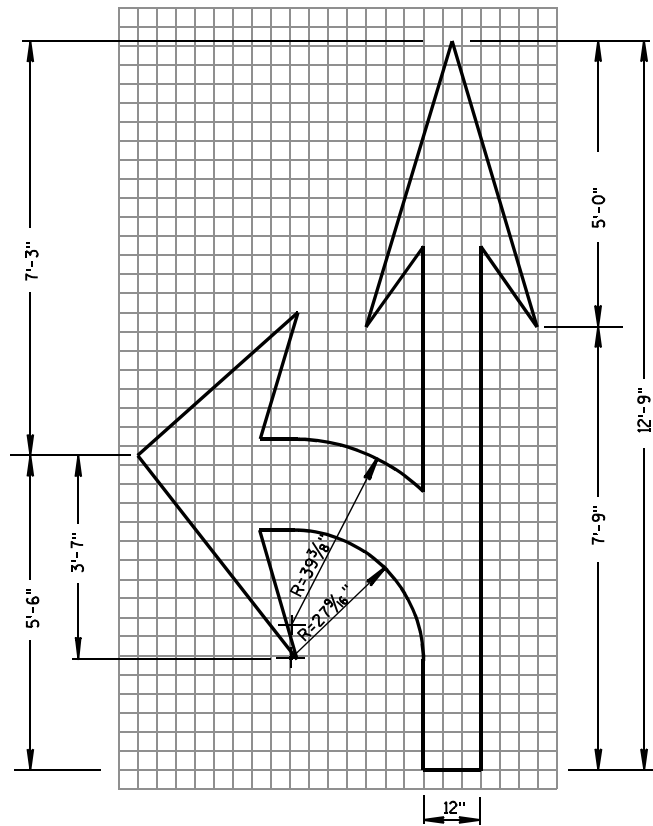
TYPE 1



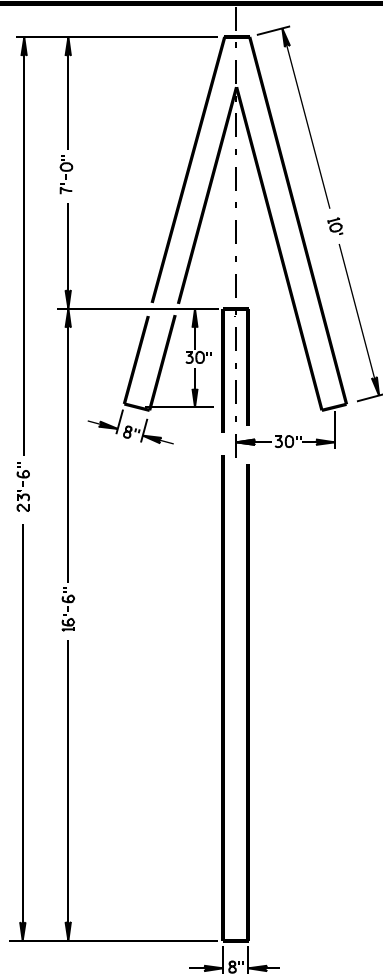
TYPE 6



TYPE 7



TYPE 3

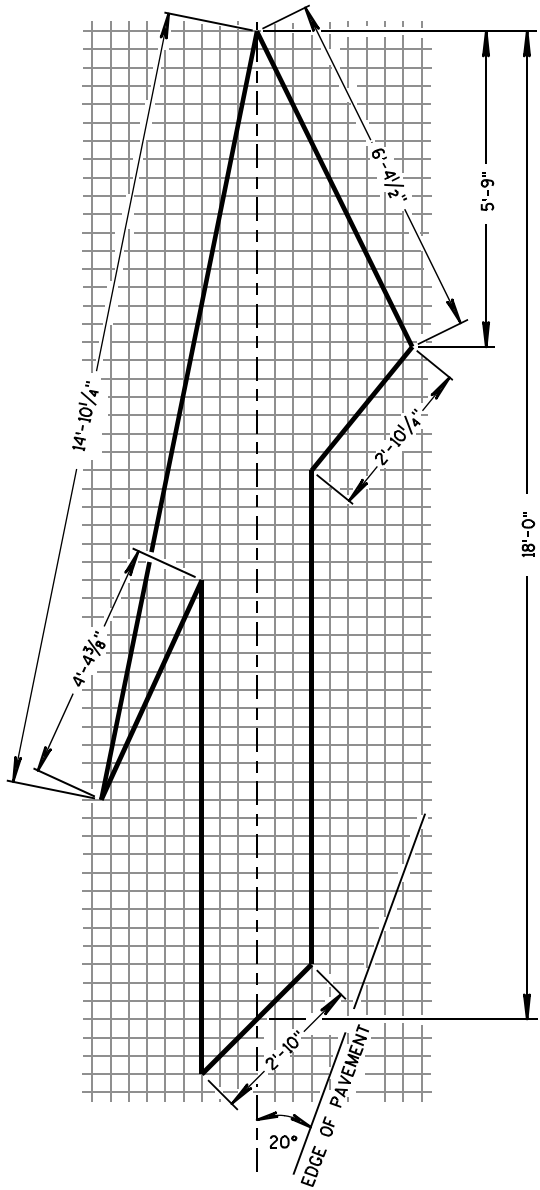


TYPE 4

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

PAVEMENT MARKING ARROWS

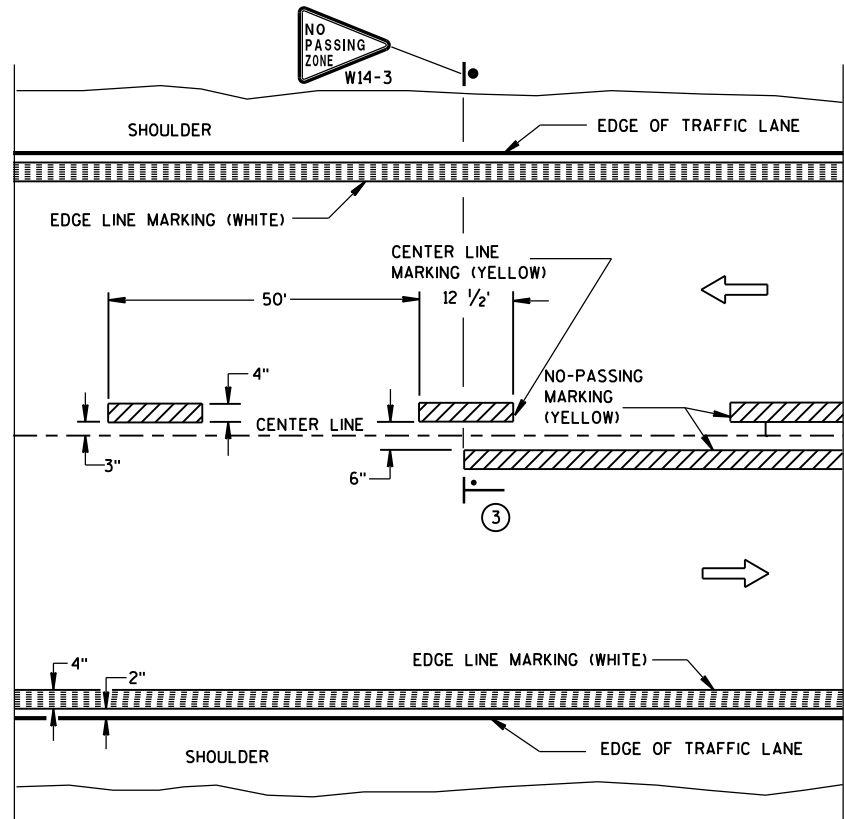
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

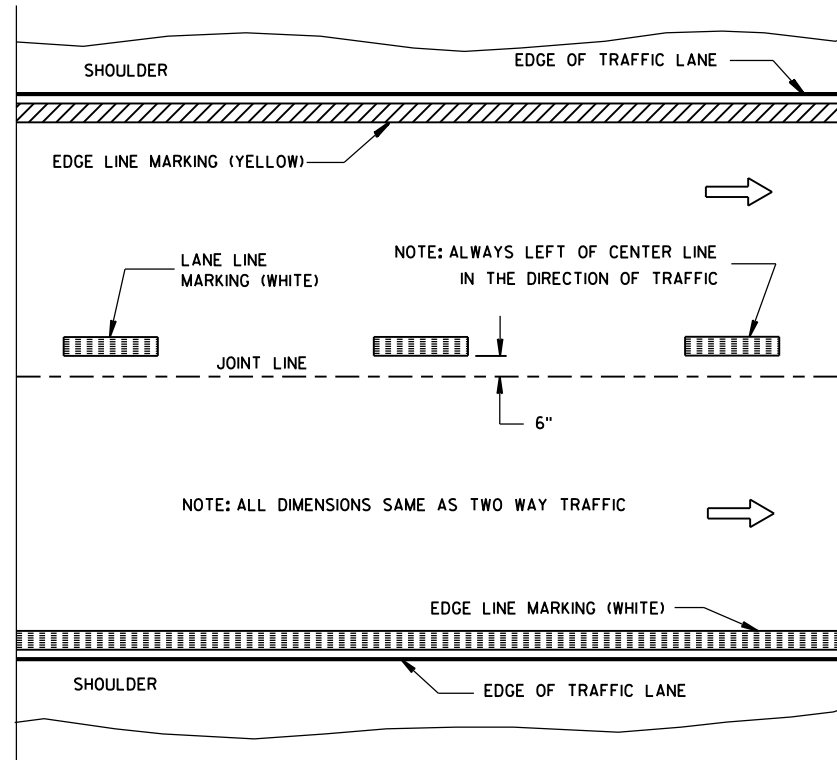
7/1/11
DATE

/S/ Thomas N. Notbohm
STATE TRAFFIC ENGINEER OF DESIGN

FHWA

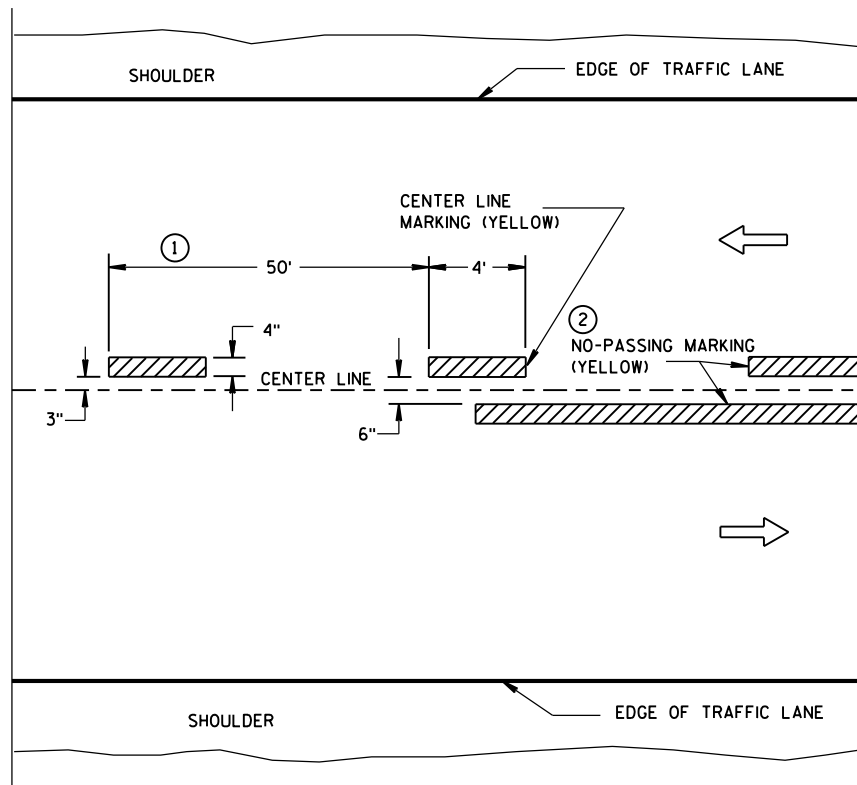


TWO WAY TRAFFIC

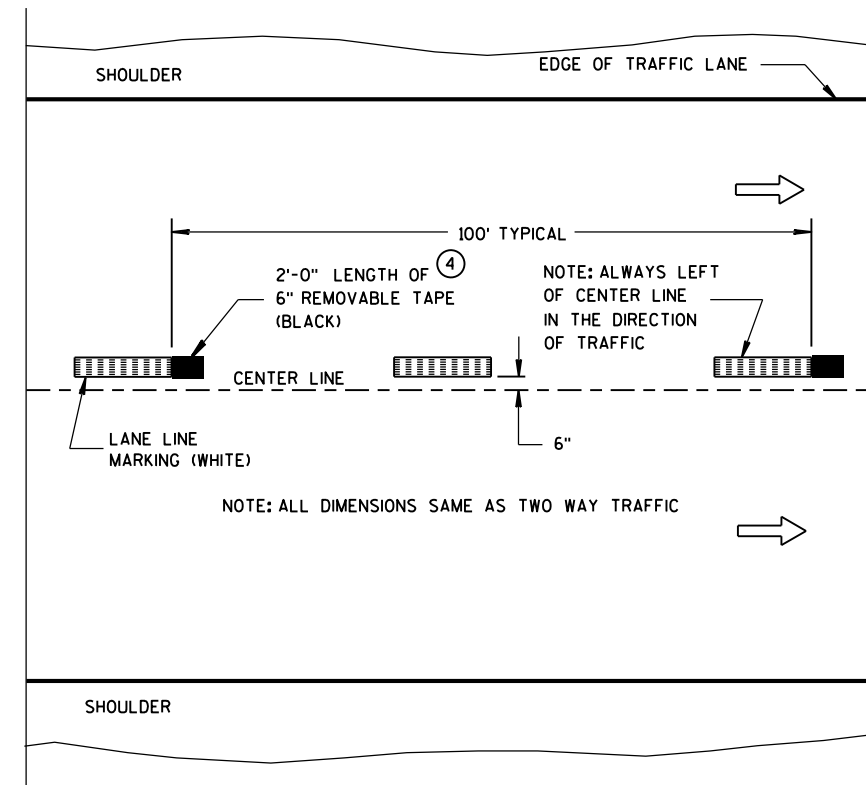


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

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

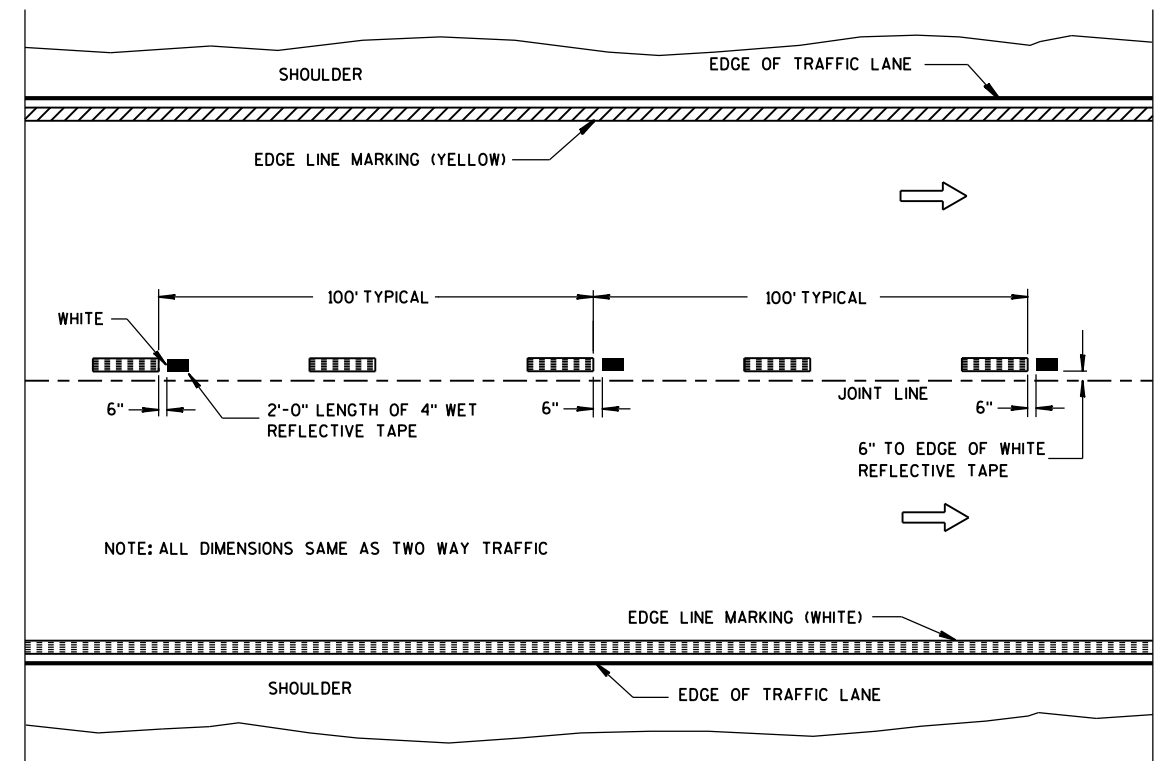
GENERAL NOTES

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

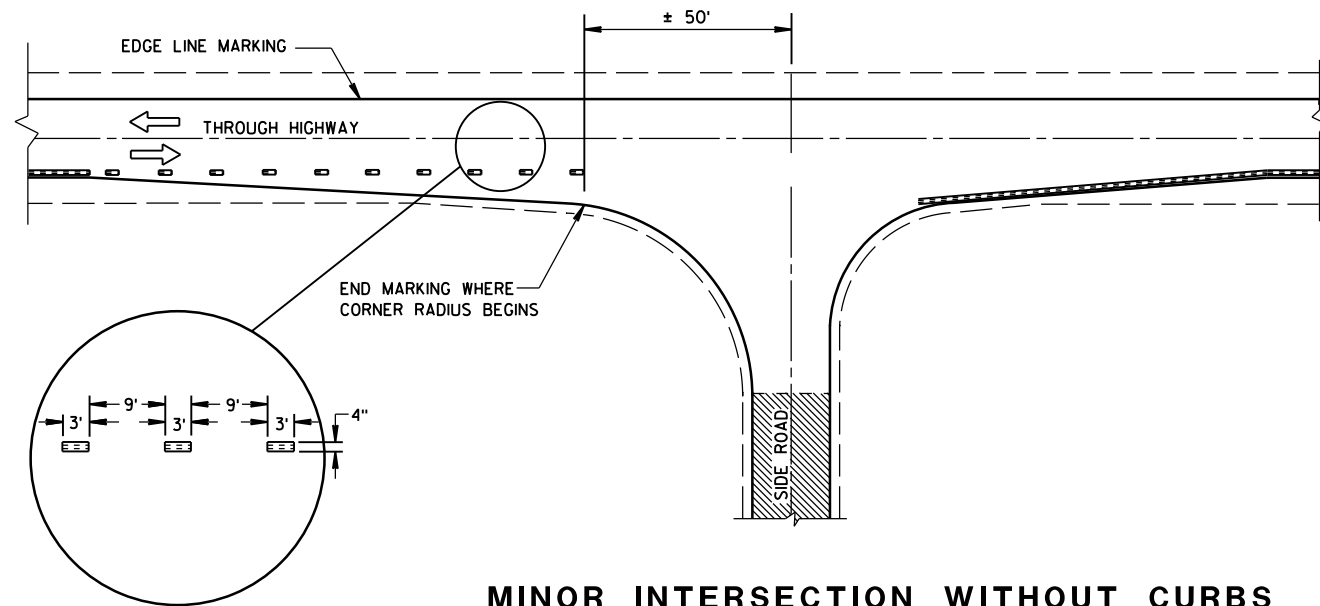
LEGEND

- "T" MARKING
- POST MOUNTED SIGN

PAVEMENT MARKING
(MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

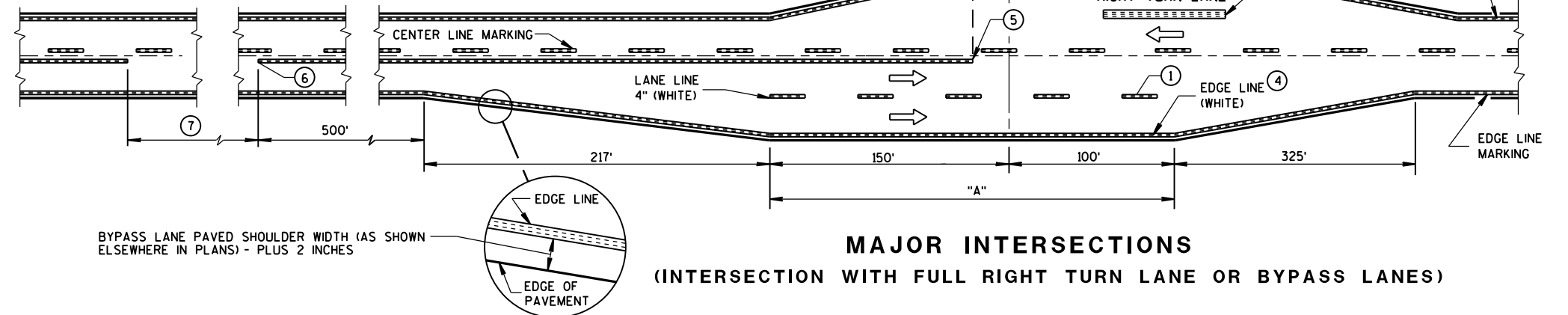
APPROVED
5-13-2013 /S/ Travis Feltes
DATE STATE TRAFFIC ENGINEER
FHWA



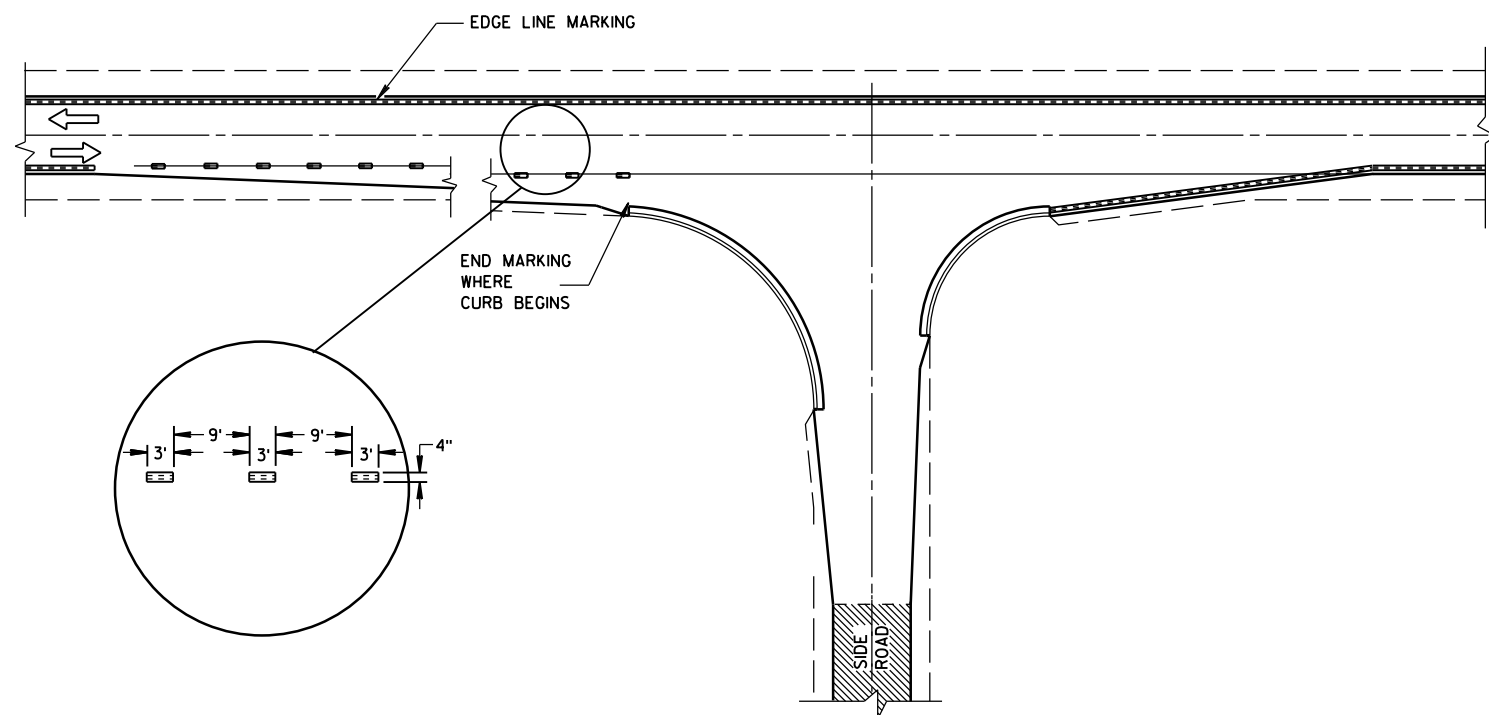
MINOR INTERSECTION WITHOUT CURBS

⑦

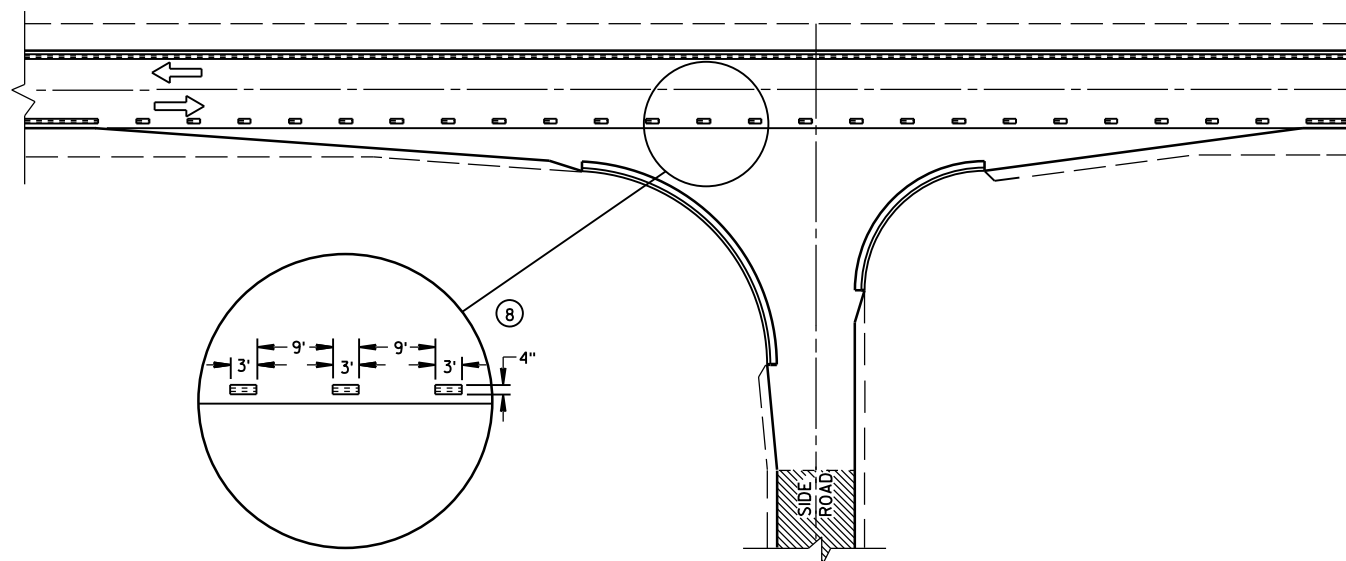
POSTED SPEED (MPH)	MINIMUM DISTANCE BETWEEN ZONES (FEET)
25 - 30	528
35 - 40	528
45 - 50	686
55	792



MAJOR INTERSECTIONS
(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)



MINOR INTERSECTION WITH CURBS
(TYPICAL MARKING)



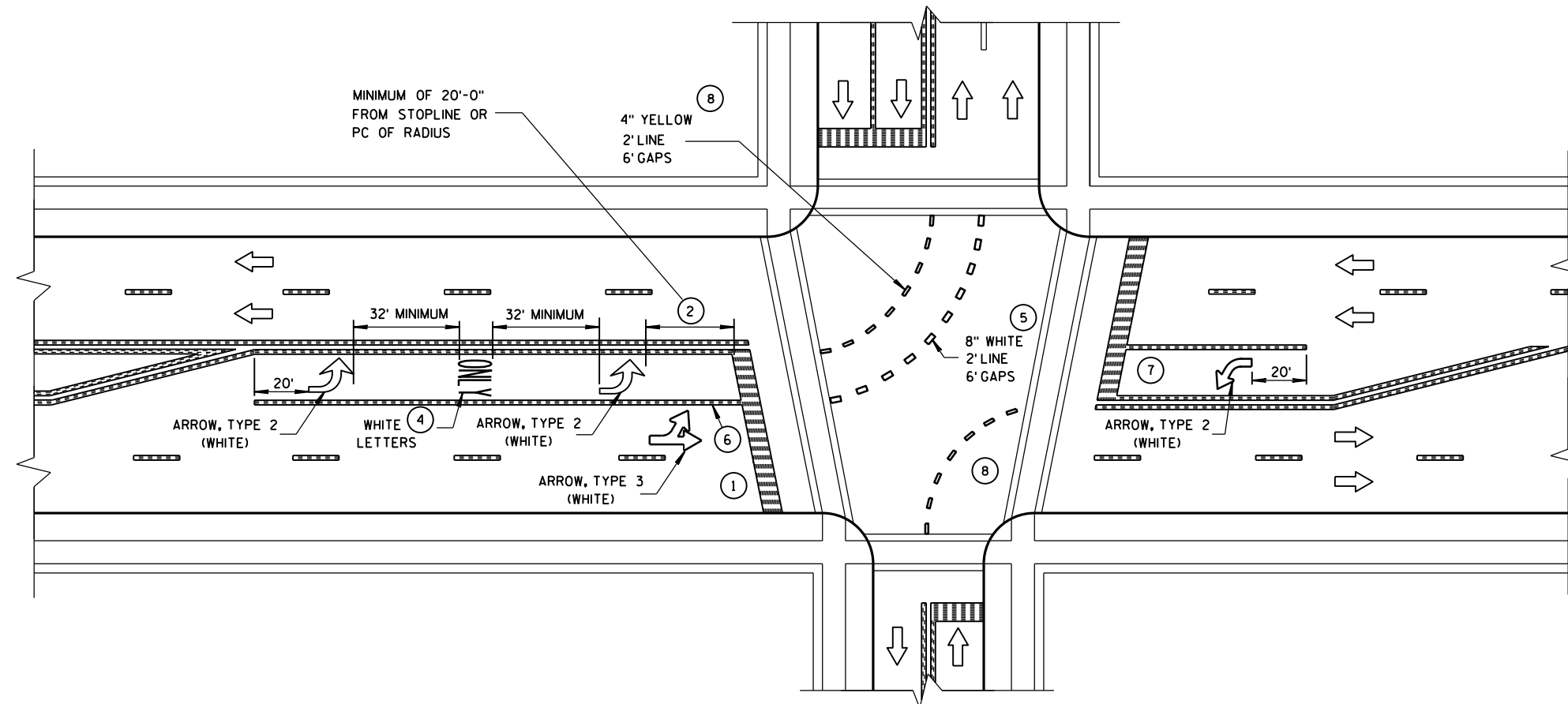
MINOR INTERSECTION WITH CURBS
③ (FOR SPECIAL CONDITIONS AS SPECIFIED)

GENERAL NOTES

- EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.
- ① WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
 - ② WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
 - ③ ALTERNATIVE MARKING SHALL BE PROVIDED WHEN SPECIFIED IN THE CONTRACT. TYPICAL SITUATIONS WHERE THIS MARKING MAY BE REQUIRED ARE WHERE THE INTERSECTION IS ON A SHARP HORIZONTAL CURVE OR CREST VERTICAL CURVE IN AN UNLIGHTED AREA SUCH THAT THE EDGE LINE MAY BE MISLEADING TO THE MOTORIST OR DISAPPEAR FROM SIGHT.
 - ④ THE EDGE LINE IN THE TAPER AREAS OF THE BYPASS LANE AND THE BYPASS LANE SHALL BE LOCATED 1-FOOT FROM EDGE OF PAVEMENT TO THE OUTSIDE EDGE OF EDGE LINE.
 - ⑤ BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.
 - ⑥ BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.
 - ⑦ IF THE DISTANCE BETWEEN 2 SUCCESSIVE NO-PASSING ZONES IS LESS THAN THE MINIMUM DISTANCE BETWEEN ZONES, CONNECT THE 2 ZONES.
 - ⑧ 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
- ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL

PAVEMENT MARKING
(INTERSECTIONS)

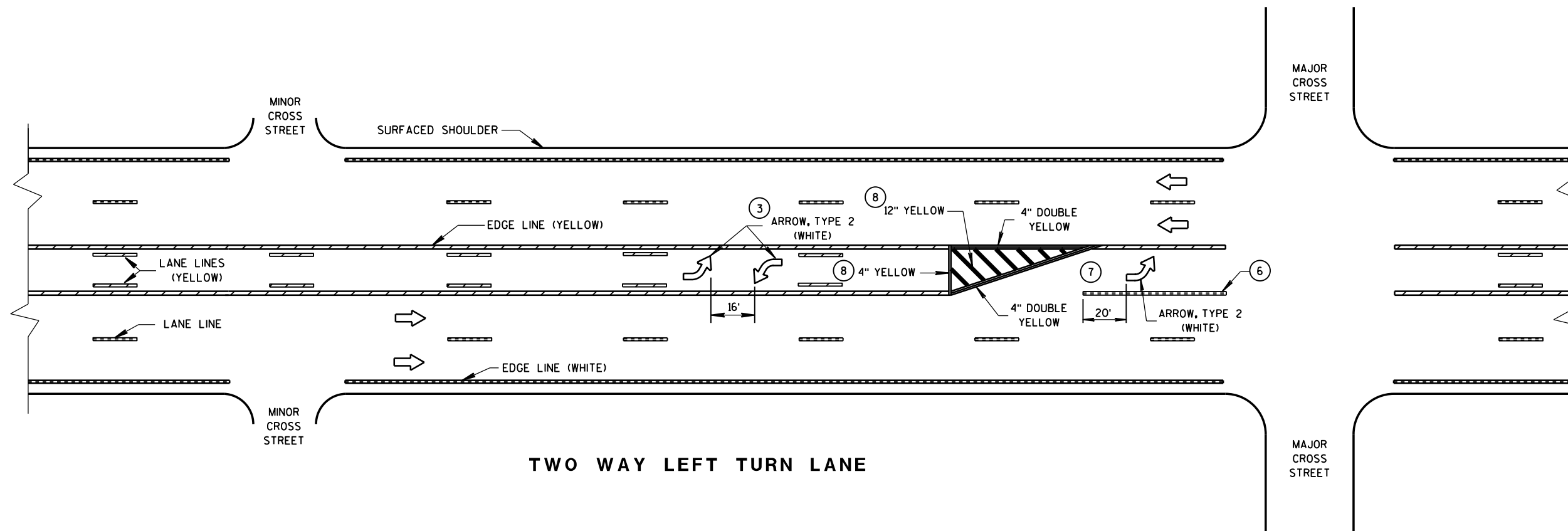
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



GENERAL NOTES

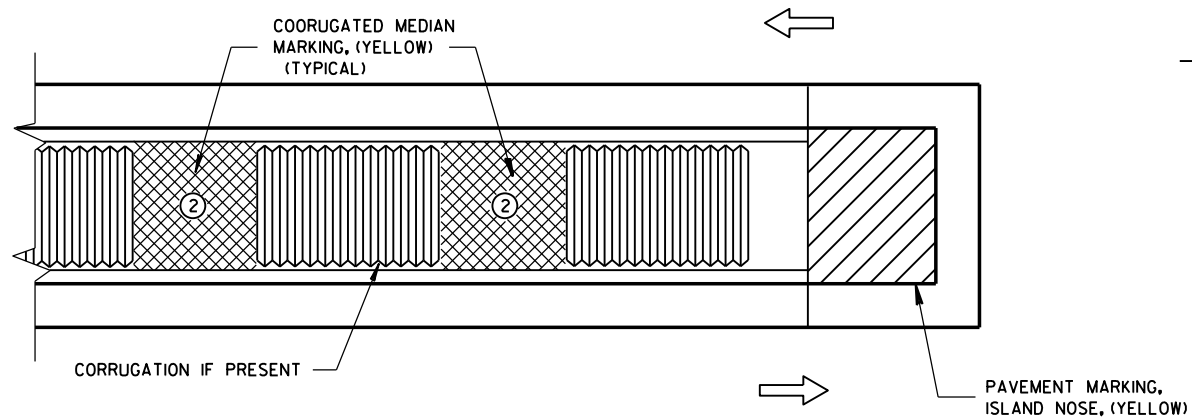
- ① STOP BAR IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
- ② DISTANCE MAY BE ADJUSTED TO ACCOMMODATE SHORT LEFT TURN LANES, AS APPROVED BY THE ENGINEER.
- ③ A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
- ④ ADD EXTRA SETS OF ONE ARROW AND ONE 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

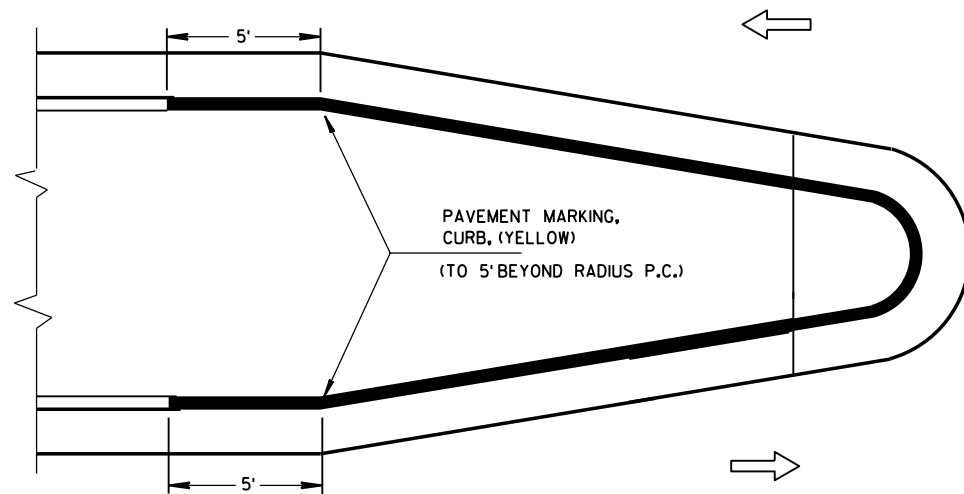


PAVEMENT MARKING
(LEFT TURN LANE)

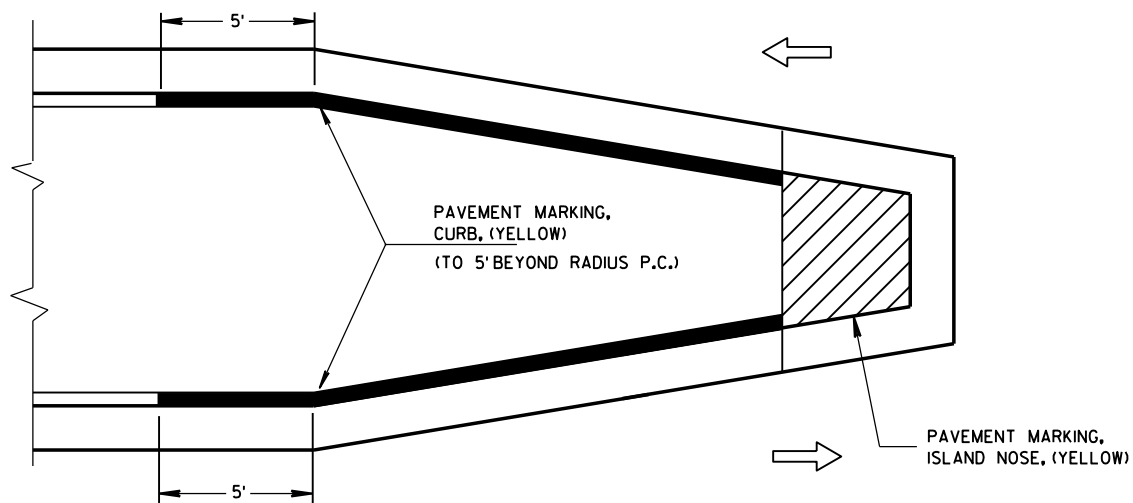
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



MEDIAN ISLAND WITH SQUARE BLUNT NOSE

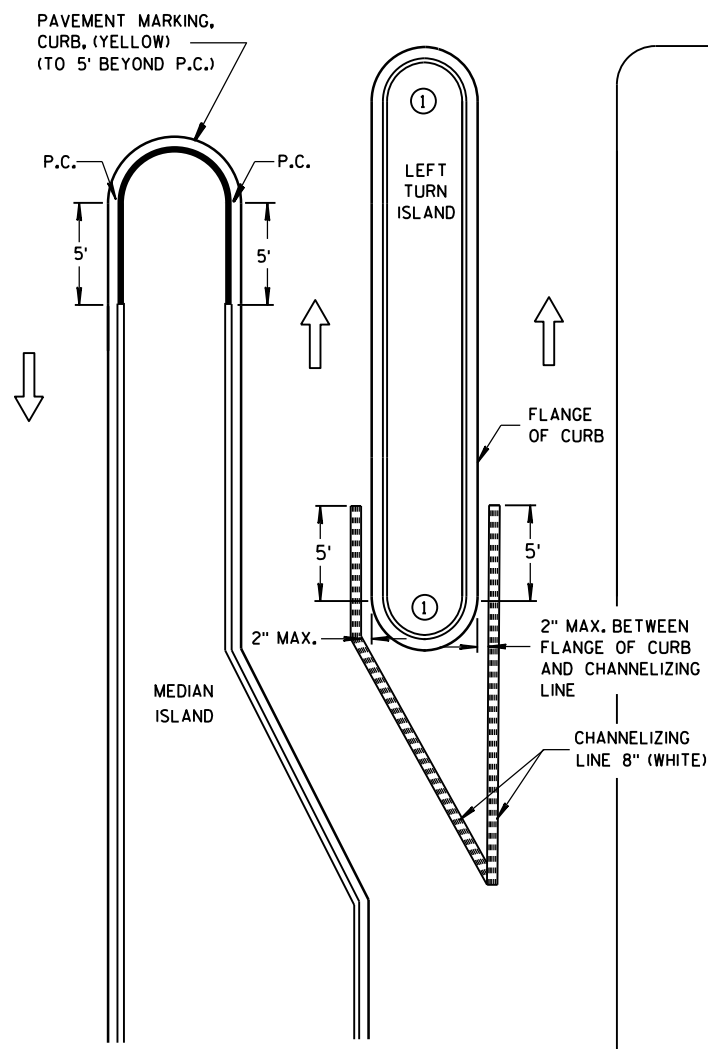


MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

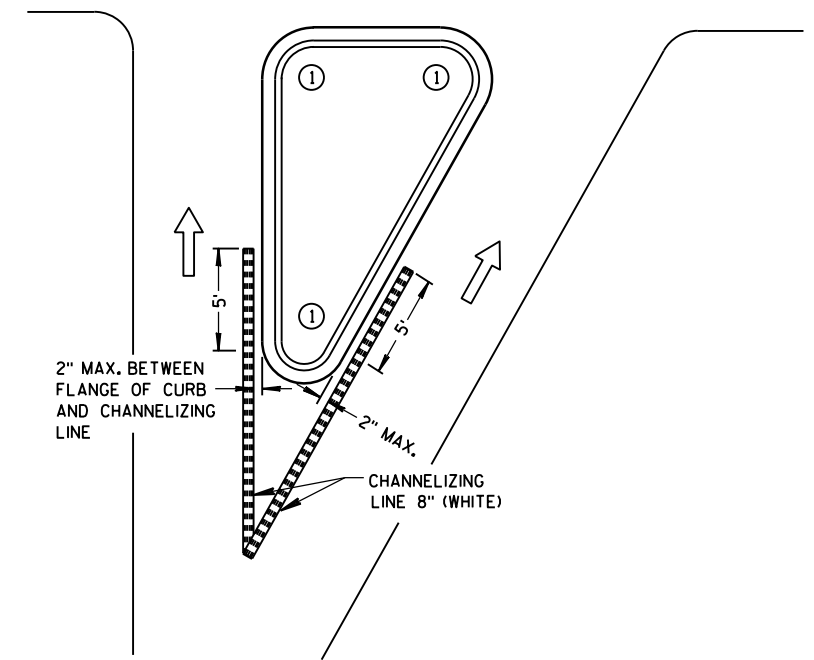
TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS



LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

- 1 DO NOT MARK CURB NOSES THAT SEPARATE LANES OF TRAFFIC TRAVELING IN THE SAME DIRECTION.
- 2 WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN, THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.



RIGHT TURN ISLAND

LEGEND

- ISLAND NOSE MARKING
- CURB MARKING
- CORRUGATED MEDIAN MARKING
- DIRECTION OF TRAVEL

PAVEMENT MARKING (ISLANDS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

LEGEND

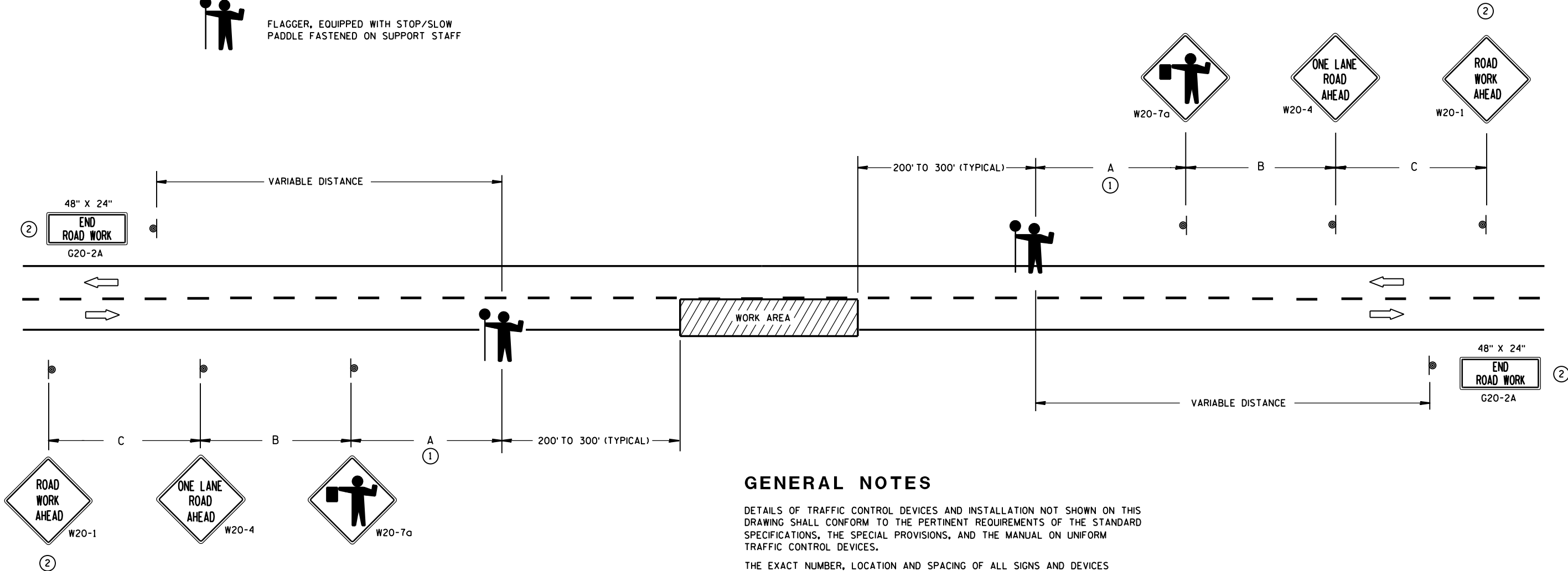
-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  DIRECTION OF TRAFFIC
-  WORK AREA
-  FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN SPACING TABLE

SPEED LIMIT	SIGN SPACING A,B,C
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7a AND W20-4 SIGNS. A 500' TYPICAL SPACING SHALL BE PROVIDED BETWEEN THE SIGNS.



GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR 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.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, COVER OR REMOVE ALL TEMPORARY TRAFFIC CONTROL SIGNS.

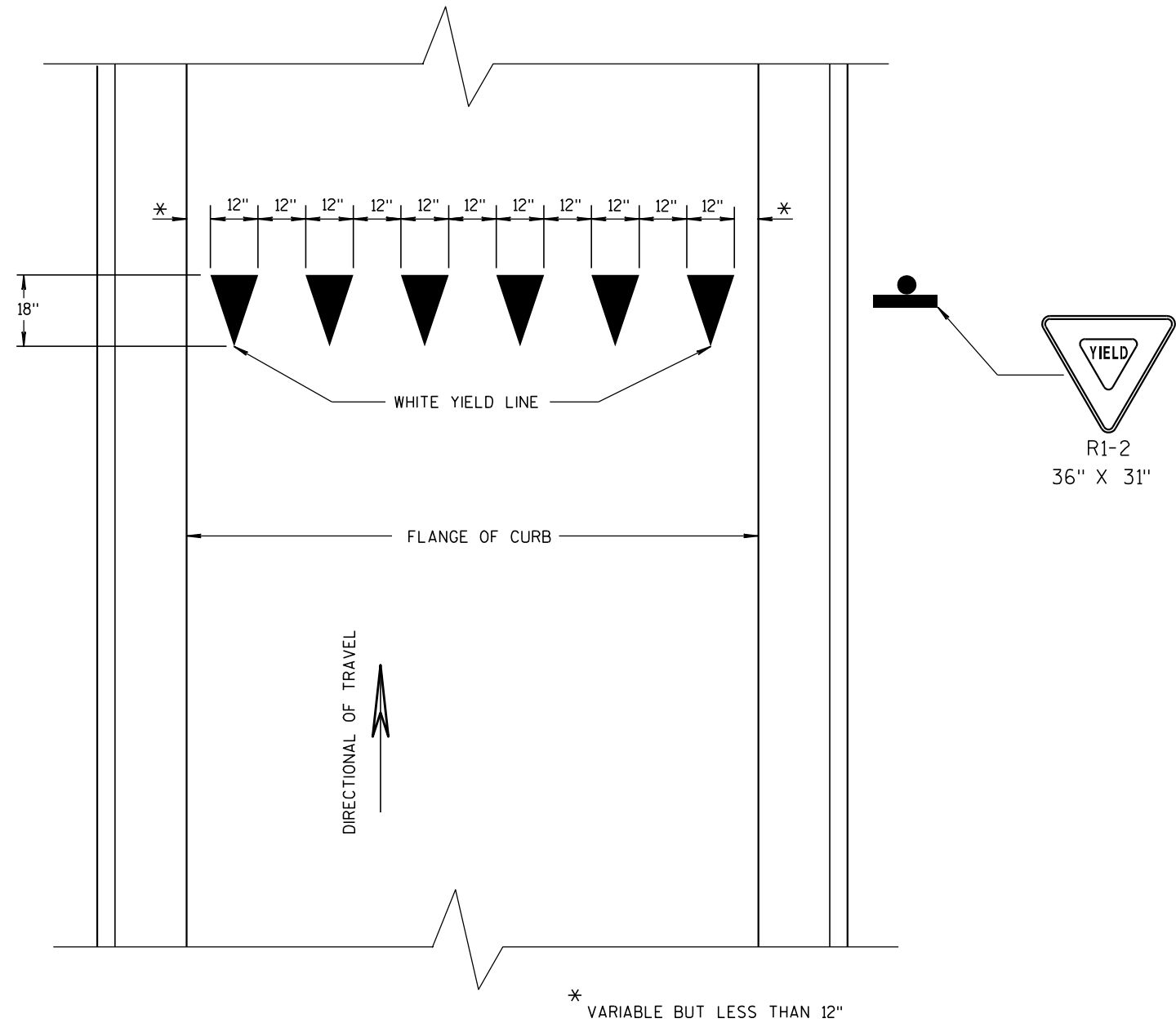
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

- ① FOR A MOVING WORK OPERATION, SIGNING FOR BOTH DIRECTIONS SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.
- ② SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

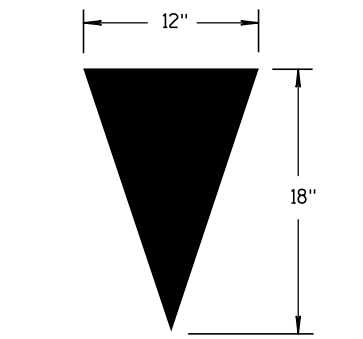
TRAFFIC CONTROL FOR LANE
CLOSURE (SUITABLE FOR
MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/2013 /S/ Travis Feltes
DATE STATE TRAFFIC ENGINEER OF DESIGN
FHWA



YIELD LINE



YIELD TRIANGLE

YIELD MARKINGS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 1/28/05 DATE	/S/ Thomas N. Notbohm STATE TRAFFIC ENGINEER OF DESIGN
FHWA	

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.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

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

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.

W20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.

CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

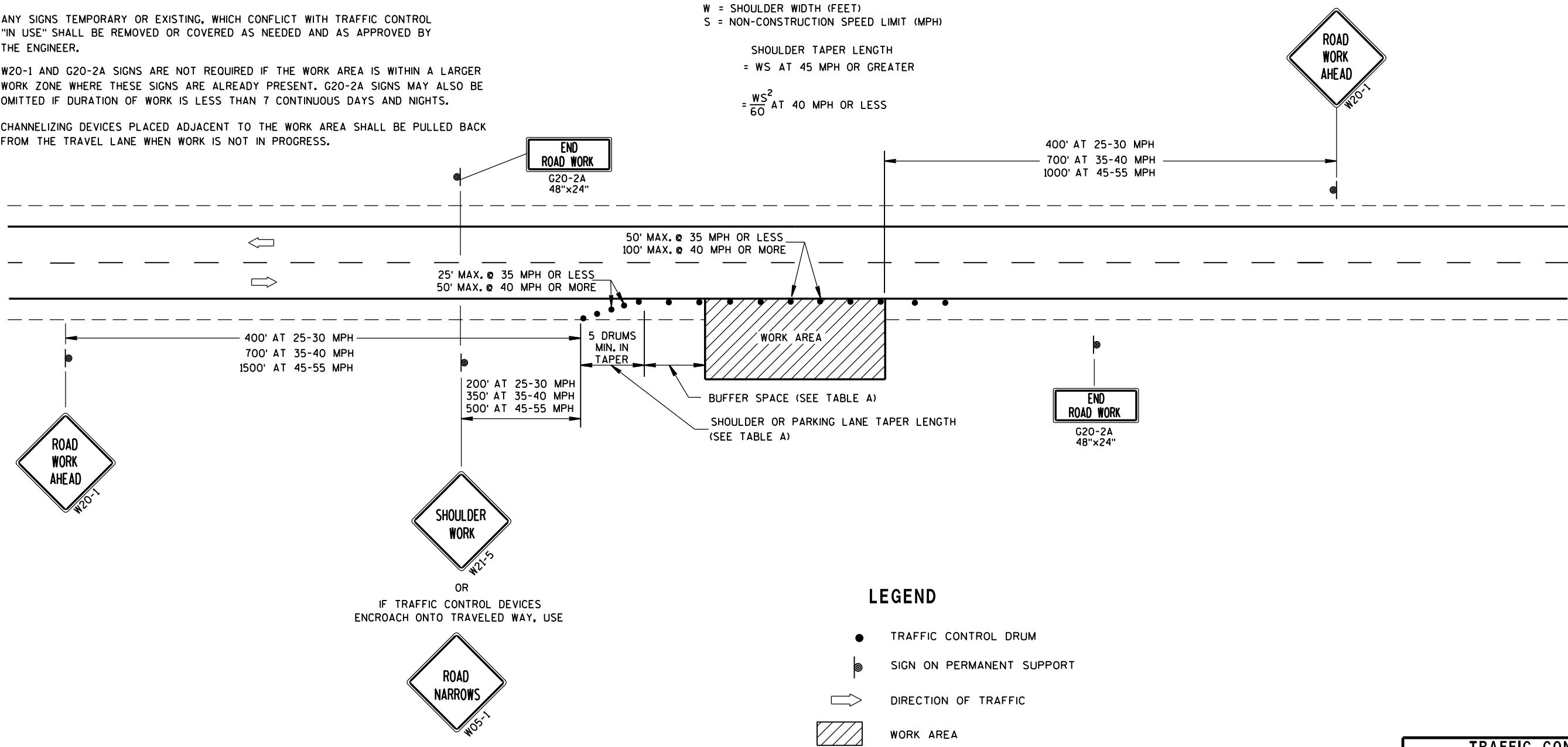
TABLE A

SHOULDER TAPER LENGTH (FEET)					BUFFER SPACE (FEET)
S	W	4	6	8	
30	20	30	40	50	85
35	30	45	55	70	120
40	40	55	75	90	170
45	60	90	120	150	220
50	70	100	135	170	280
55	75	110	150	185	335

W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

SHOULDER TAPER LENGTH
= WS AT 45 MPH OR GREATER

= $\frac{WS^2}{60}$ AT 40 MPH OR LESS



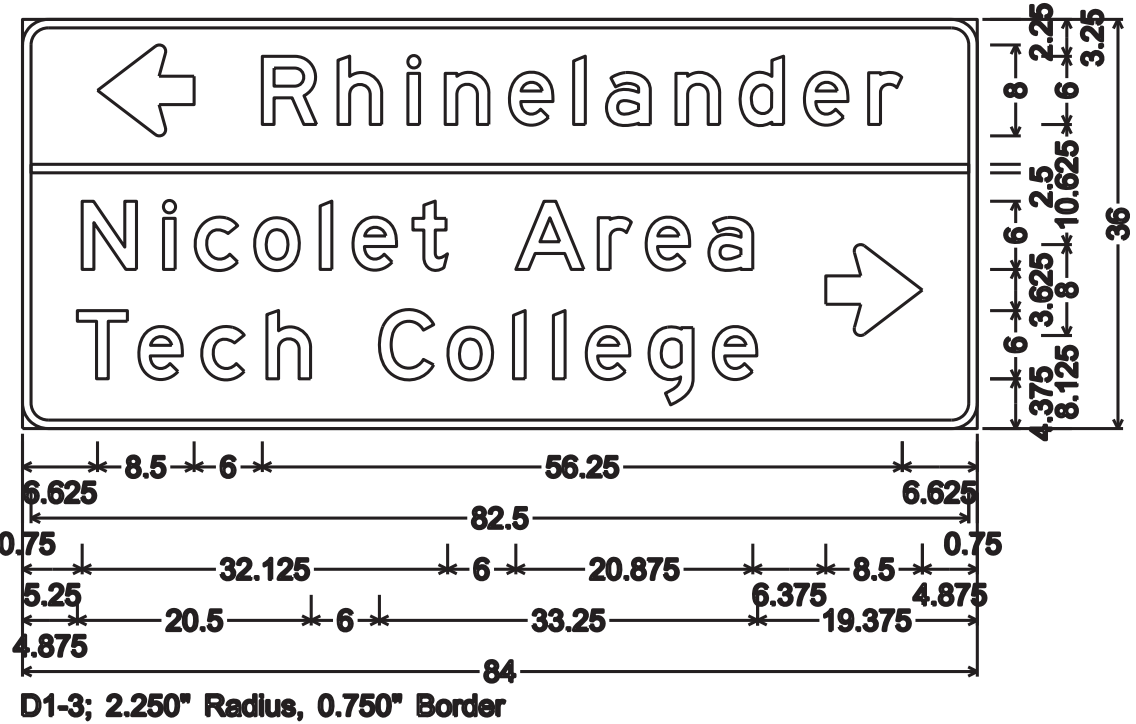
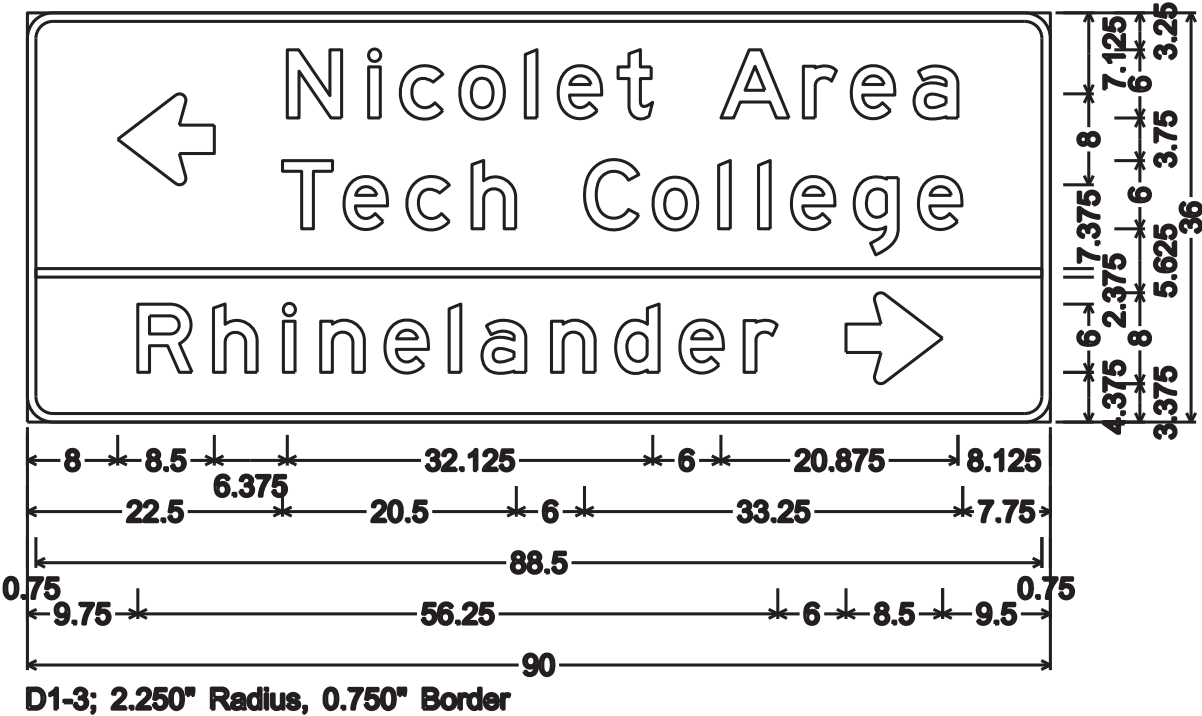
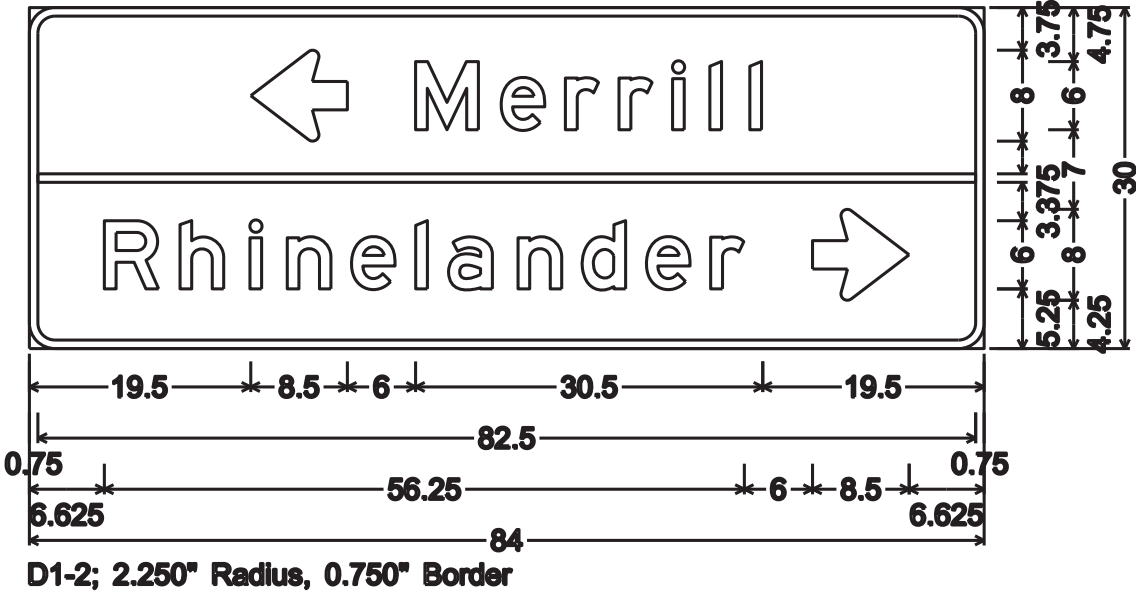
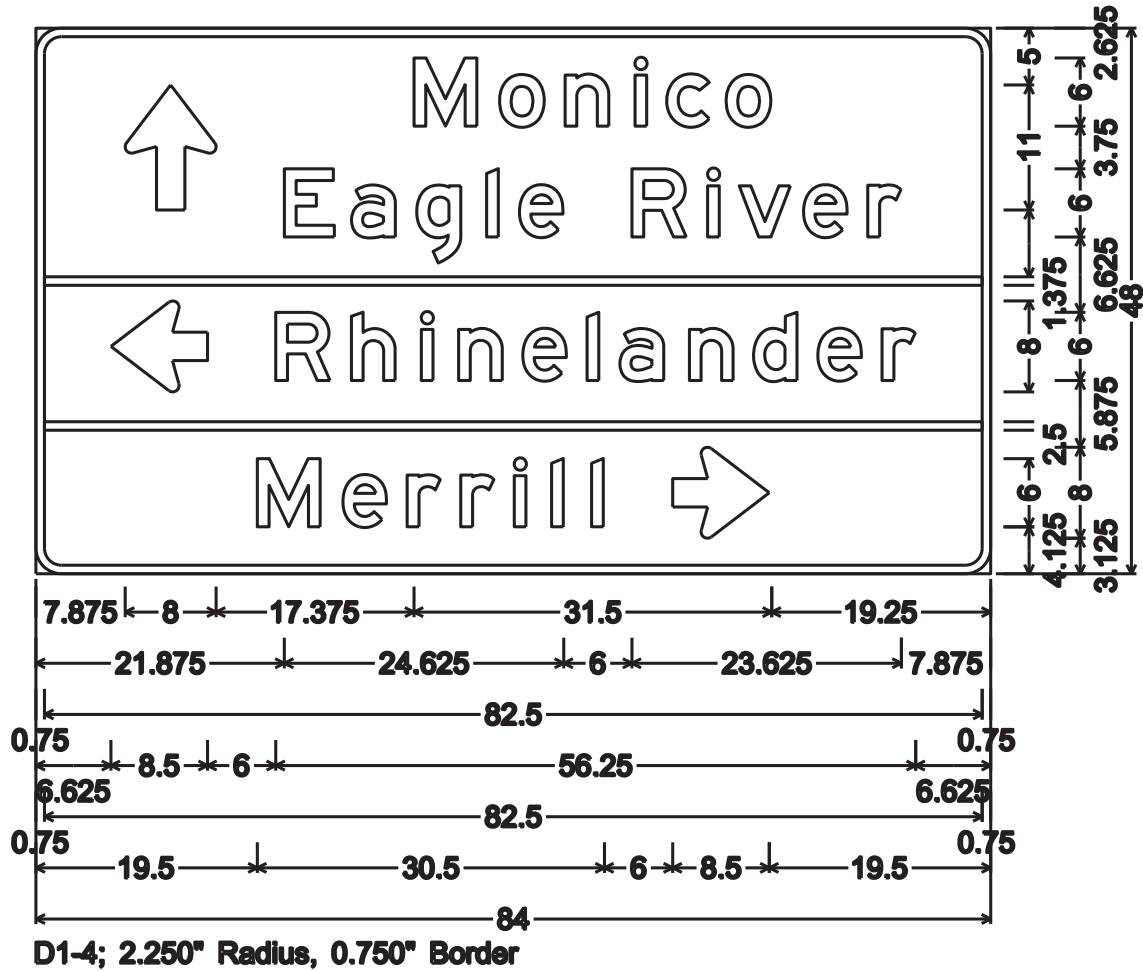
LEGEND

- TRAFFIC CONTROL DRUM
- ⦿ SIGN ON PERMANENT SUPPORT
- ➡ DIRECTION OF TRAFFIC
- ▨ WORK AREA

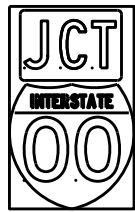
TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 8/2013 DATE	/S/ Travis Feltes STATE TRAFFIC ENGINEER OF DESIGN
FHWA	

NOTES

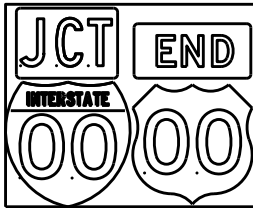
- 1. Sign is Type II - Type H Reflective
- 2. Color:
Background - Green
Message - White
- 3. Message Series - E



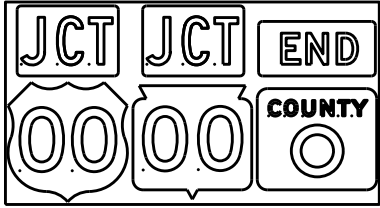
TYPICAL ASSEMBLIES



J1-1



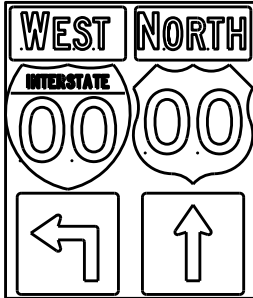
J1-2



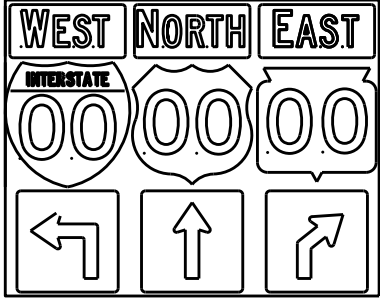
J1-3



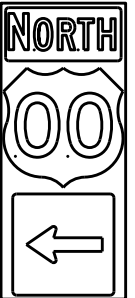
J2-1



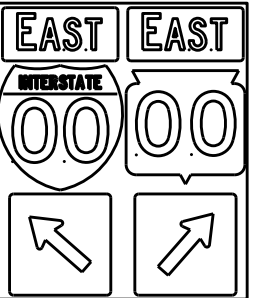
J2-2



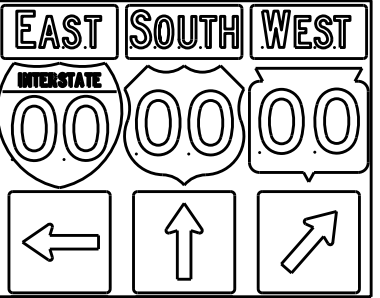
J2-3



J3-1



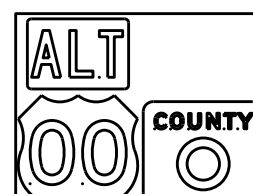
J3-2



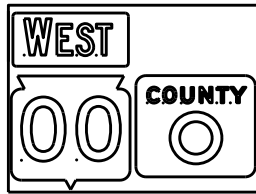
J3-3



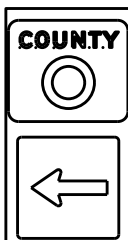
J4-1



J4-2



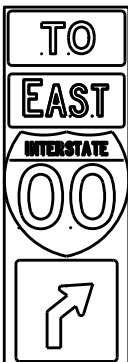
J4-2



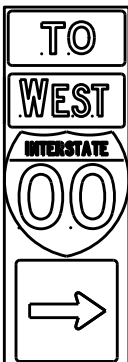
J13-1



J12-1



J32-1



J33-1



J23-1

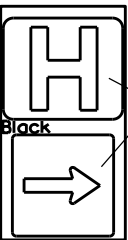


J22-1



JV

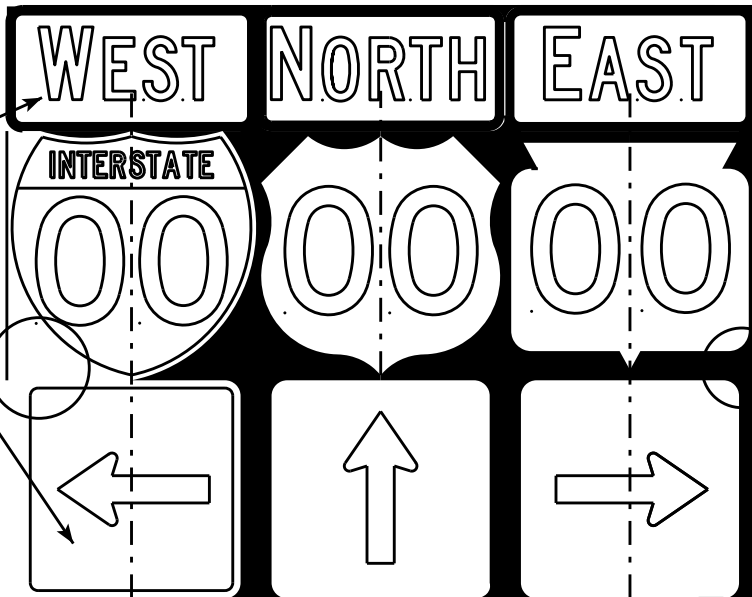
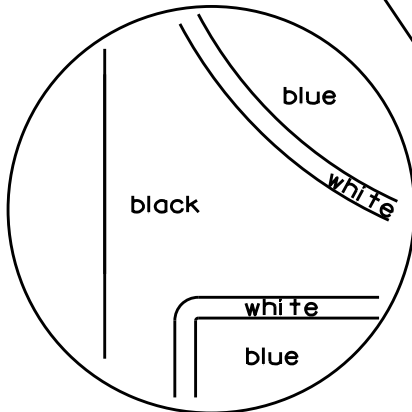
(Typical Vertical J-Assembly
See Note 10 and 11)



JH-1

Blue Background

[blue background
with interstate]



[black background]

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

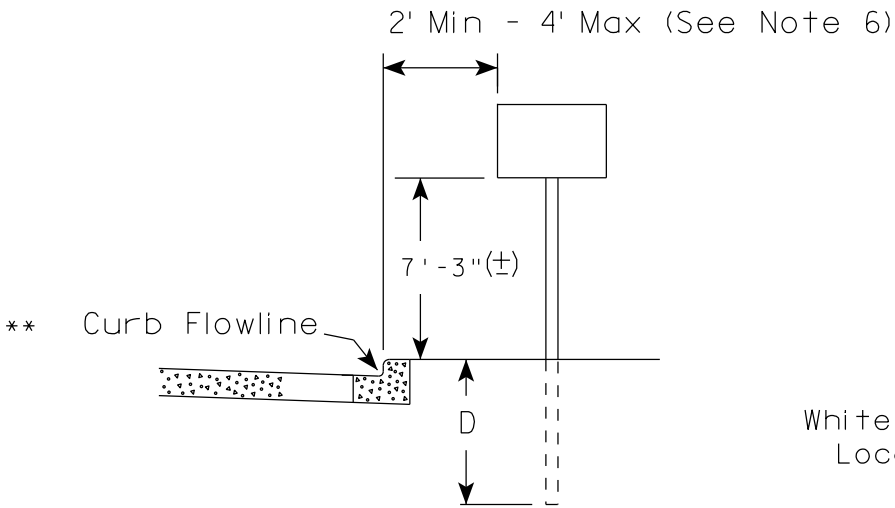
APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 2/06/14 PLATE NO. A2-1S.8

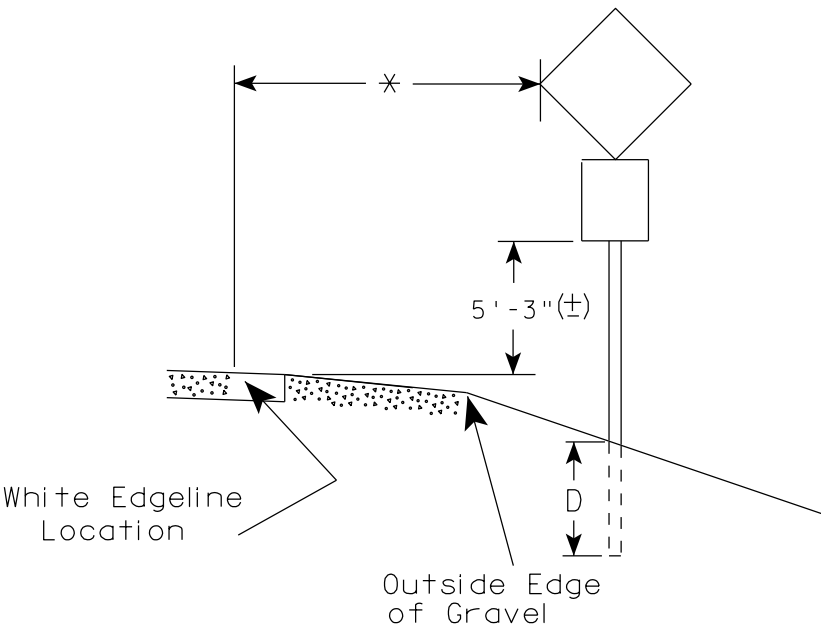
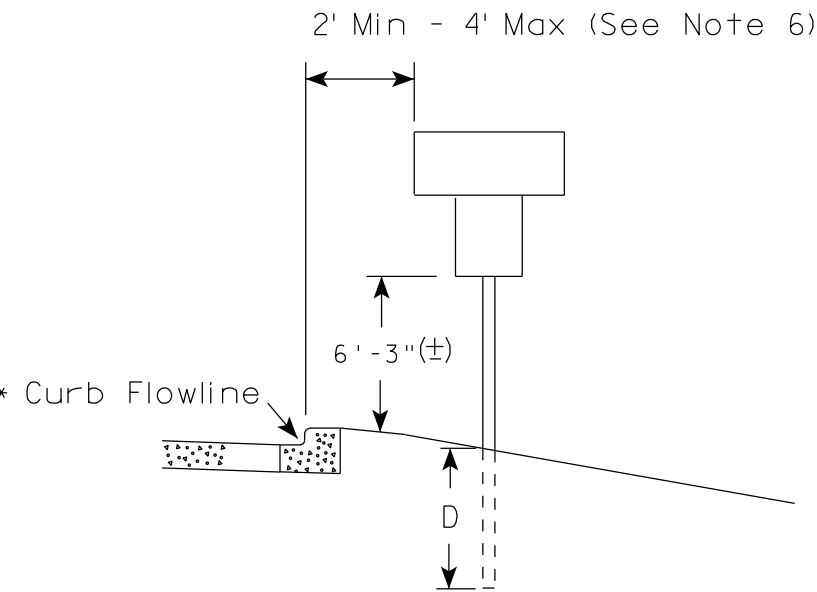
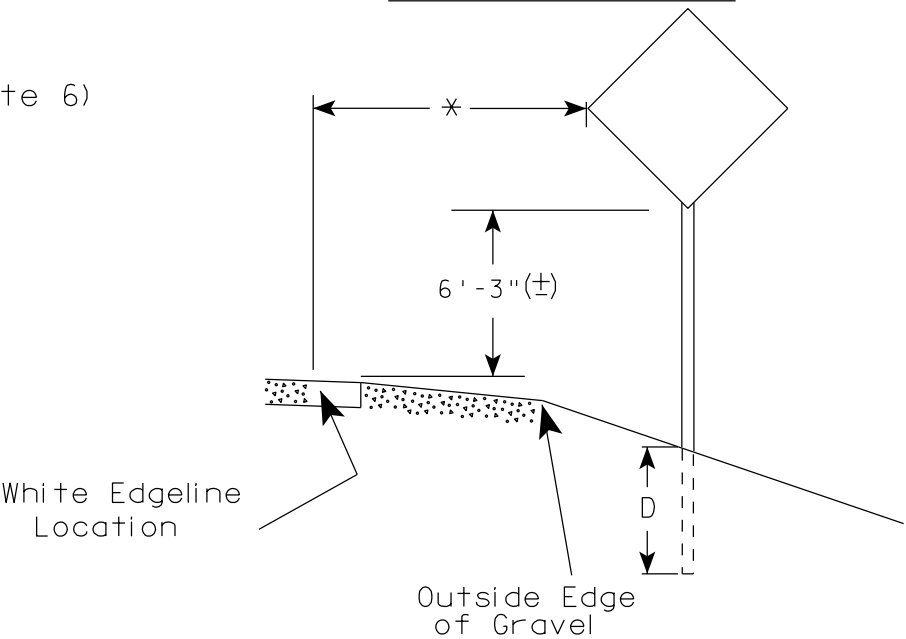
NOTES

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 inches (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.

URBAN AREA



RURAL AREA (See Note 2)



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 directed 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" (±).

×× 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.

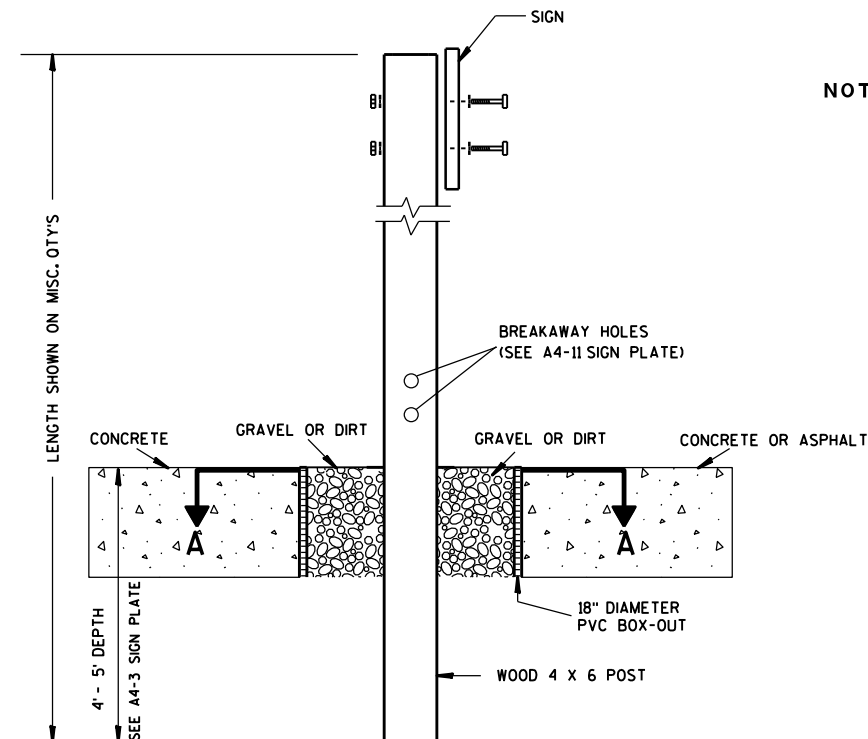
* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

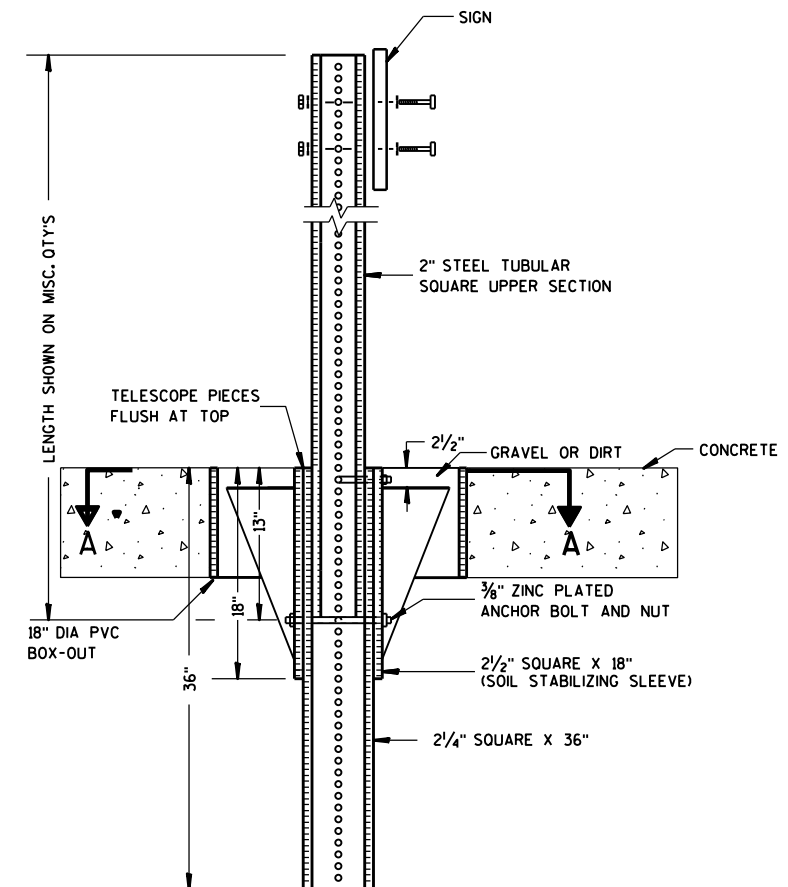
DATE 7/23/15 PLATE NO. A4-3.20



ELEVATION VIEW

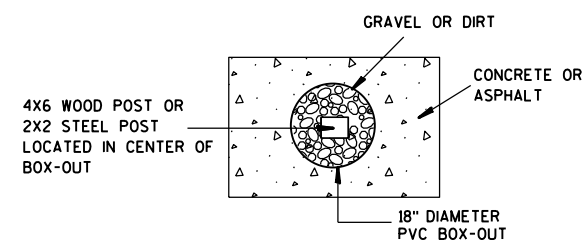
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

- 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

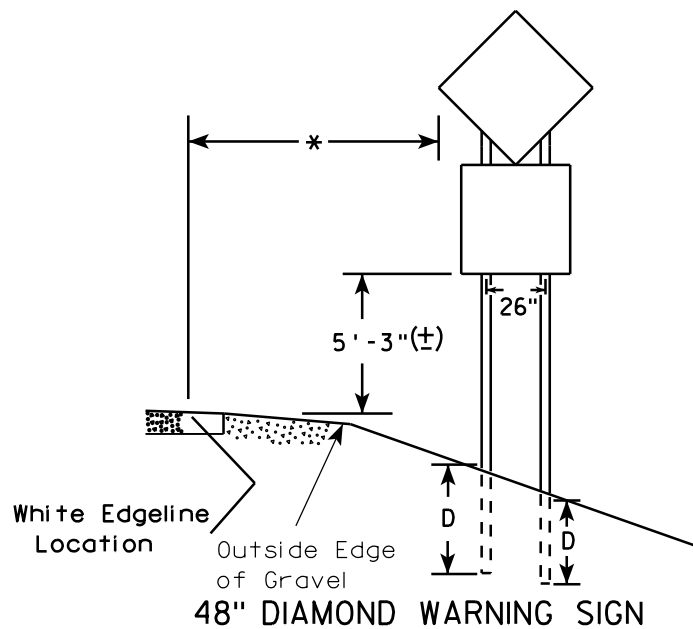
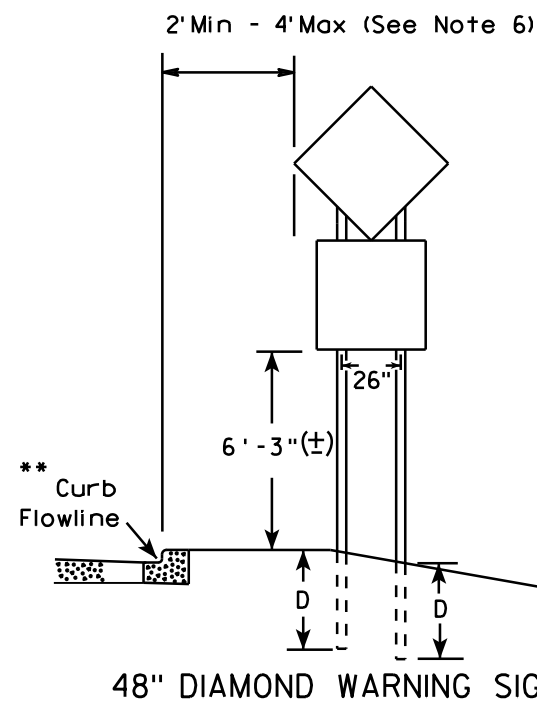
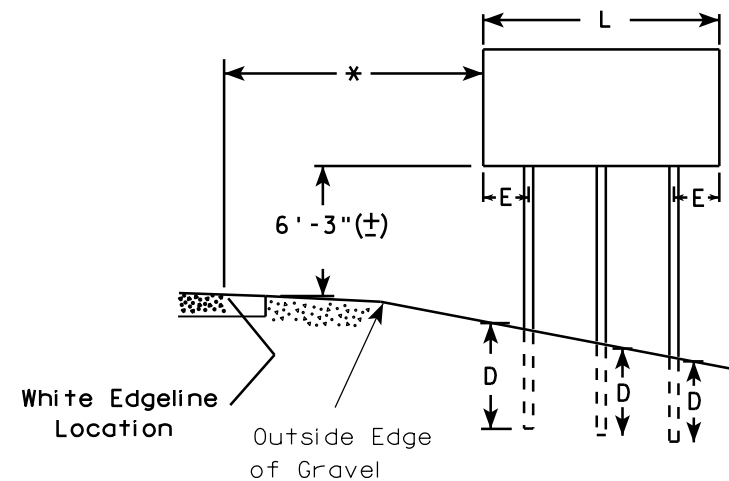
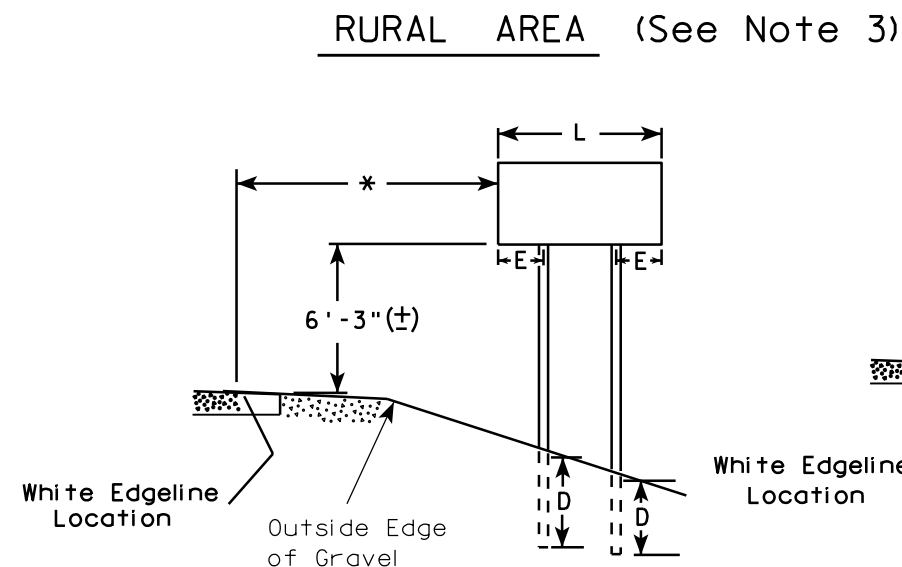
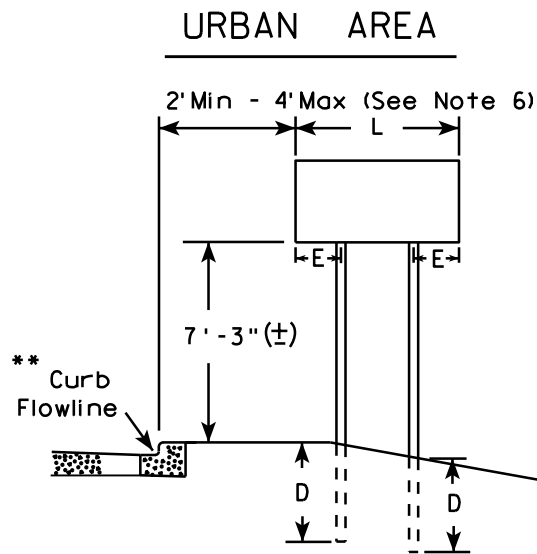
FOR NEW CONCRETE/ASPHALT INSTALLATIONS

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



- 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.

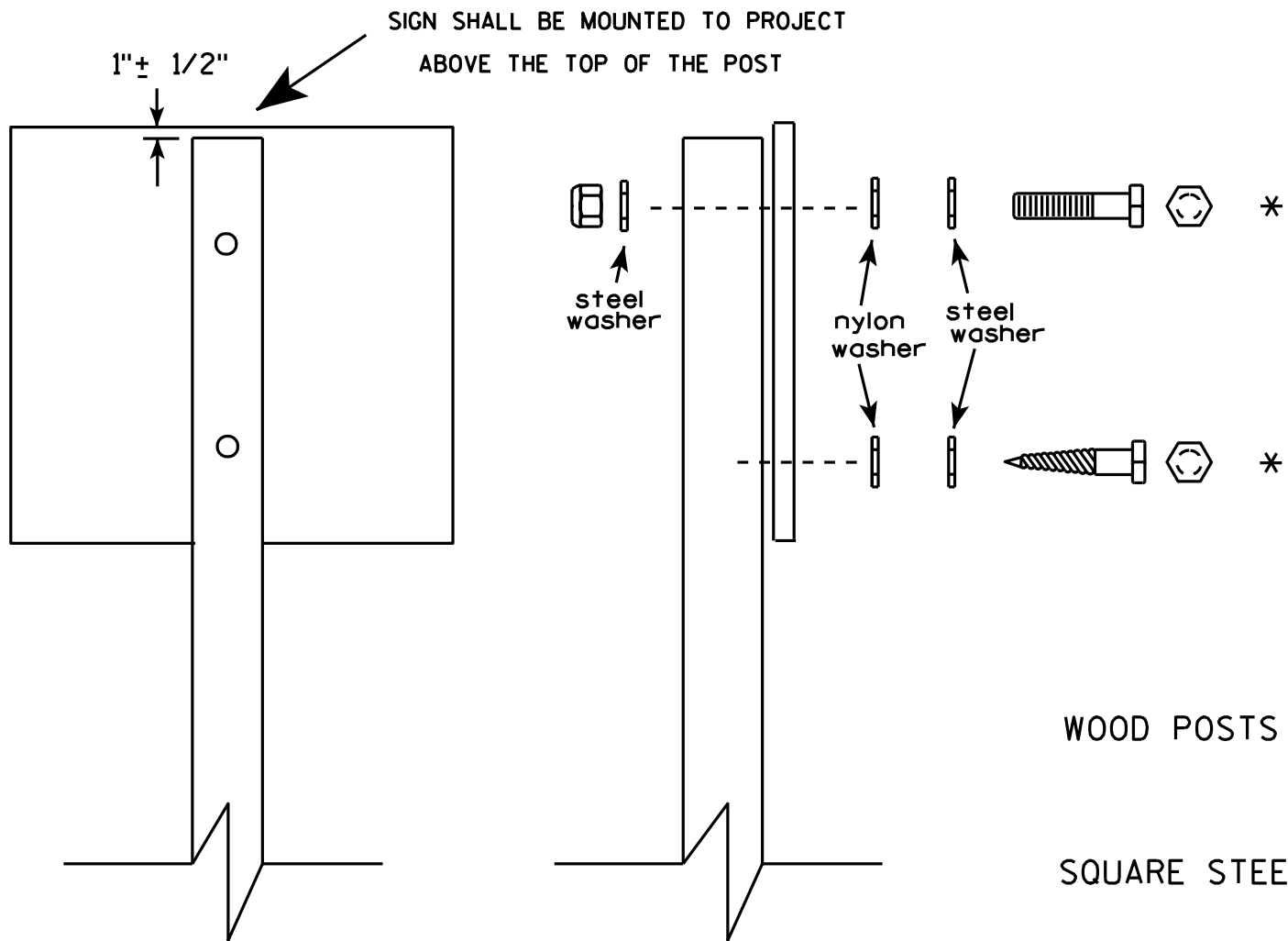
SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
L	E
Greater than 48" Less than 60"	12"
60" to 120"	L/5

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	<i>Matthew R. Rauch</i> for State Traffic Engineer
DATE 7/23/15	PLATE NO. A4-4.14

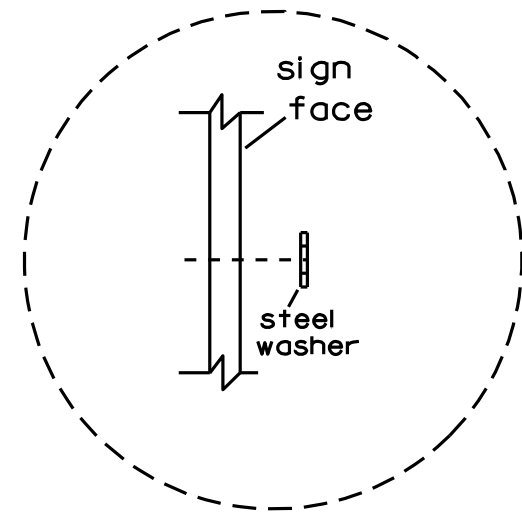


Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

- 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.

- WOOD POSTS (4" x 4" or 4" x 6")
LAG SCREWS - 3/8" X 3"
MACHINE BOLTS - 5/16" X 6-1/2" or 7" Length w/ nuts
- SQUARE STEEL POSTS (2" x 2")
MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts
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 for all Type H signs.

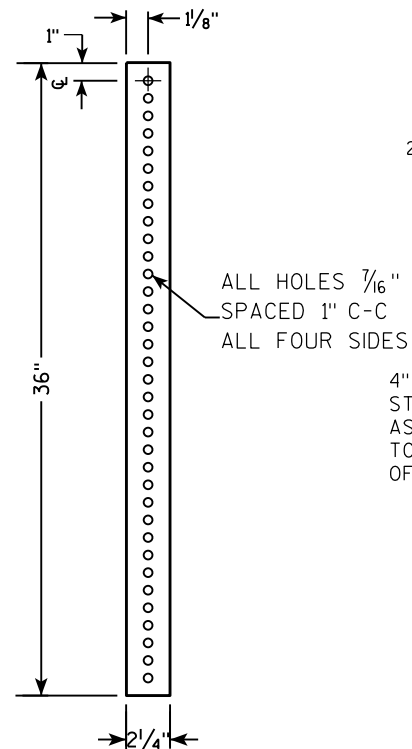


Washer Placement when Sign Has Other Than Type H or Type F Face

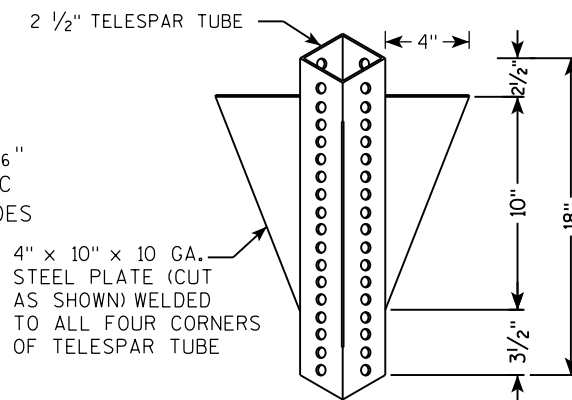
* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 3/23/10	PLATE NO. A4-8.7

**2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH**



**2 1/2" SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH**



LENGTH SHOWN ON MISC. Q'TYS

18" DIA SCHEDULE 40 PVC BOX-OUT

TELESCOPE PIECES FLUSH AT TOP

2" STEEL TUBULAR SQUARE UPPER SECTION

ALL HOLES $\frac{7}{16}$ " SPACED 1" C-C ALL FOUR SIDES

$\frac{3}{8}$ " ZINC PLATED CORNER ANCHOR BOLT AND NUT

2 1/2" GRAVEL OR DIRT

$\frac{3}{8}$ " ZINC PLATED ANCHOR BOLT AND NUT

2 1/2" SQUARE X 18" (SOIL STABILIZING SLEEVE)

2 1/4" SQUARE X 36"

SIGN

SEE SIGN PLATE A4-8 FOR BOLT WASHER, & NUT MATERIAL

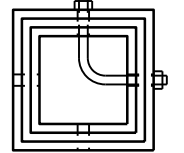
36"

18"

13"

LENGTH SHOWN ON MISC. QTY'S
 81"
 81"
 SEE SIGN PLATE A4-8 FOR BOLT WASHER, & NUT MATERIAL
 2" STEEL TUBULAR SQUARE UPPER SECTION
 ALL HOLES $\frac{7}{16}$ " SPACED 1" C-C ALL FOUR SIDES
 $\frac{3}{8}$ " ZINC PLATED CORNER ANCHOR BOLT AND NUT
 1"
 TELESCOPE PIECES FLUSH AT TOP
 A
 18"
 12"
 36"
 B
 $\frac{3}{8}$ " ZINC PLATED ANCHOR BOLT AND NUT
 2 1/2" SQUARE X 18" (SOIL STABILIZING SLEEVE)
 2 1/4" SQUARE X 36"

3/8" ZINC PLATED CORNER
ANCHOR BOLT AND NUT



DIRECTION
OF TRAFFIC

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

TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthieu R. Rauch

for State Traffic Engineer

DATE 2/05/15 PLATE NO. A4-9.9

PROJECT NO:

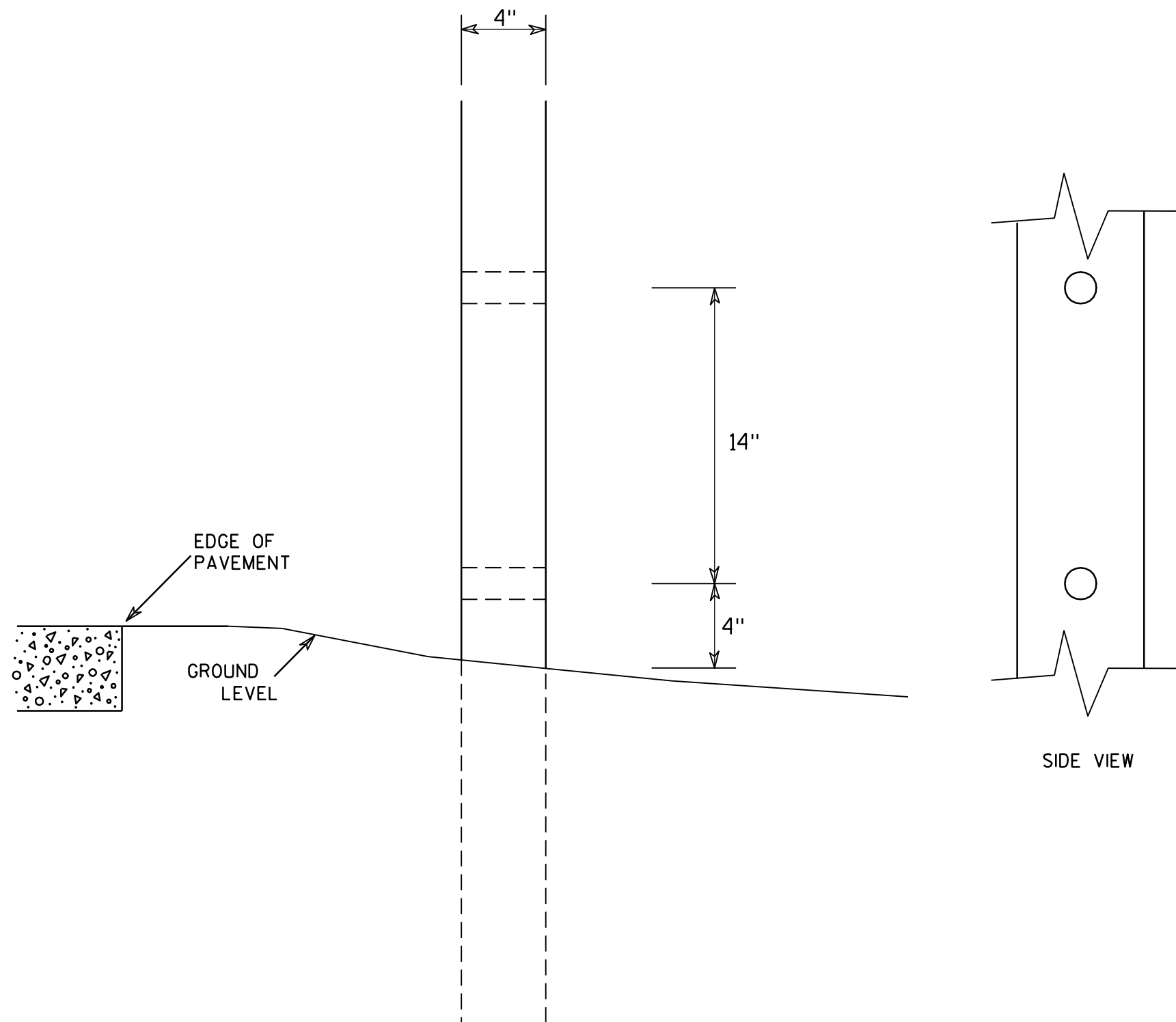
HWY:

COUNTY:

SHEET NO:

11

7

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

**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:

E

7

Metric equivalent
for this sign is:

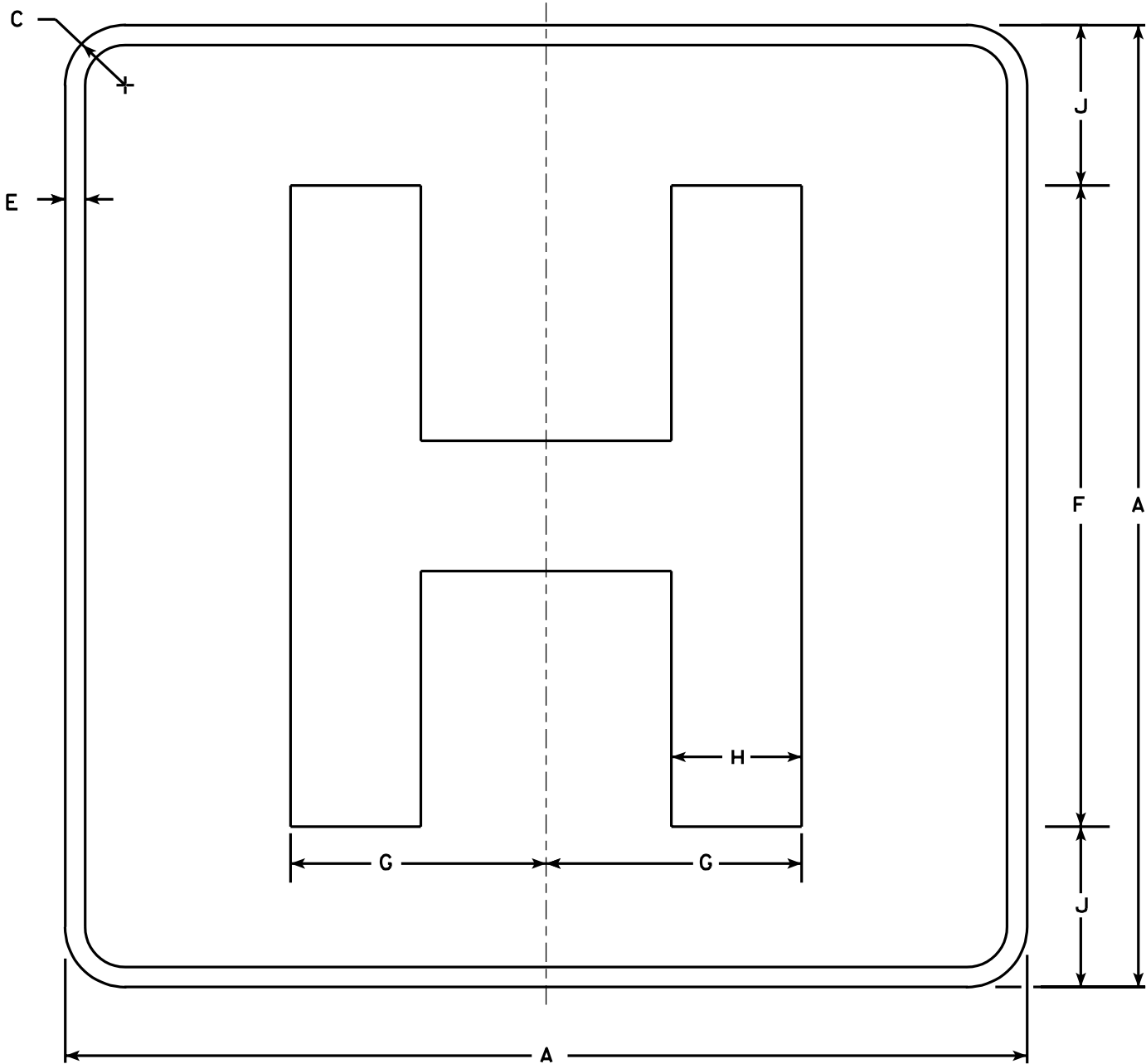
SIZE	
1	450 mmX 450 mm
2	600 mmX 600 mm
3	900 mmX 900 mm
4	X
5	X

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		1 1/8		1/2	12	4 3/4	2 3/8		3																	4.0
2	24		1 1/2		1/2	16	6 3/8	3 1/4		4																	4.0
3	36		2 1/4		3/4	24	9 1/2	4 7/8		6																	9.0
4																											
5																											

PROJECT NO:

SHEET NO:

E



D9-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Blue
Message - White - Type H Reflective
3. Message Series - E Modified
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

STANDARD SIGN
D9-2

WISCONSIN DEPT OF TRANSPORTATION

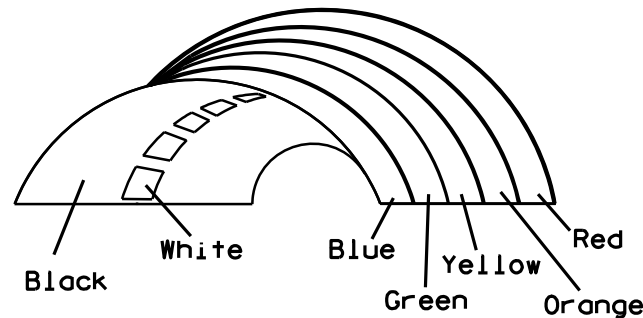
APPROVED
Chester J. Spang
for State Traffic Engineer

DATE 1/15/02
PLATE NO. D9-2.4



* VARIES

Background Colors of Symbol*



*1/4" Black Border between each color of rainbow and border of rainbow

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.

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																											

PROJECT NO:

HWY:

COUNTY:

SHEET NO:

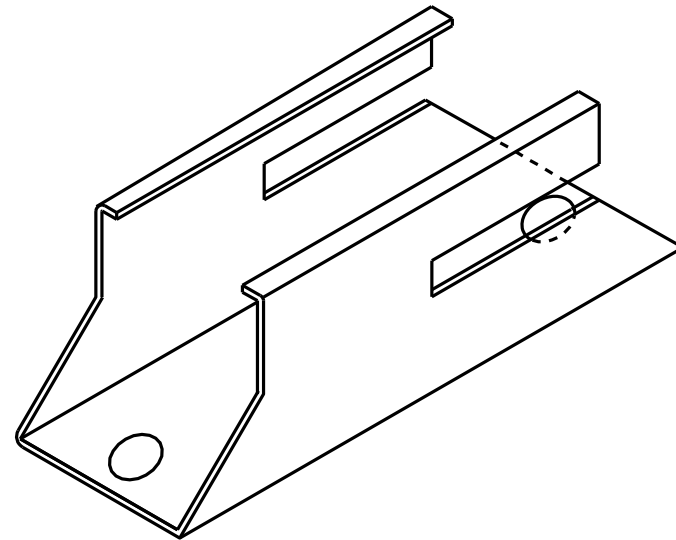
STANDARD SIGN
I55-56

WISCONSIN DEPT OF TRANSPORTATION

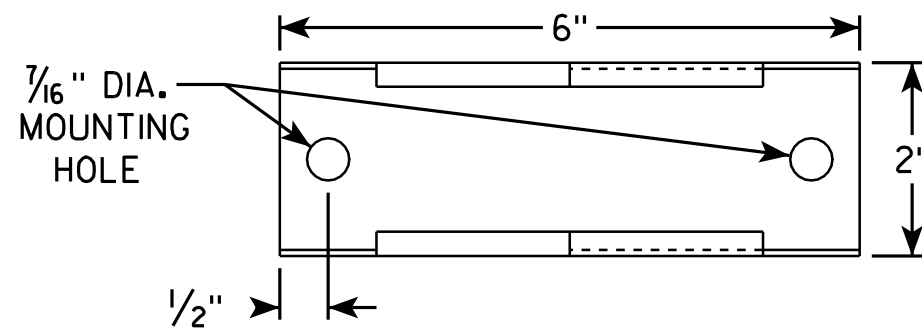
APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 4/27/11 PLATE NO. I55-56.3

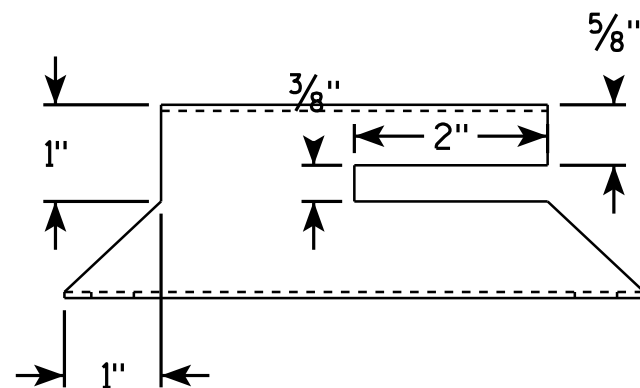
ISOMETRIC VIEW



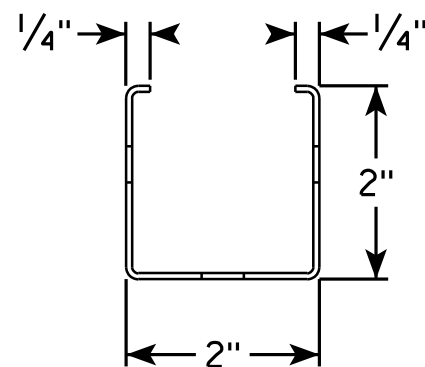
TOP VIEW



SIDE VIEW



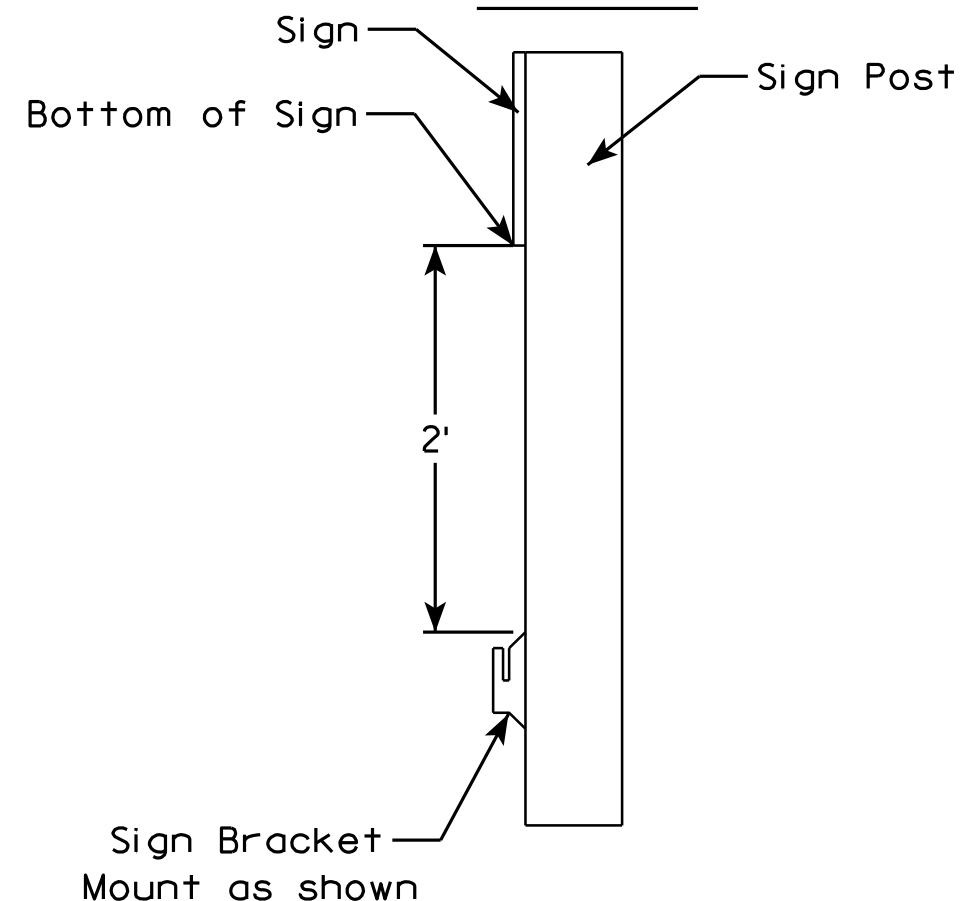
END VIEW



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.

SIDE VIEW



ROLLUP SIGN BRACKET
I55-56B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 2/5/10 PLATE NO. I55-56B.1

PROJECT NO:

HWY:

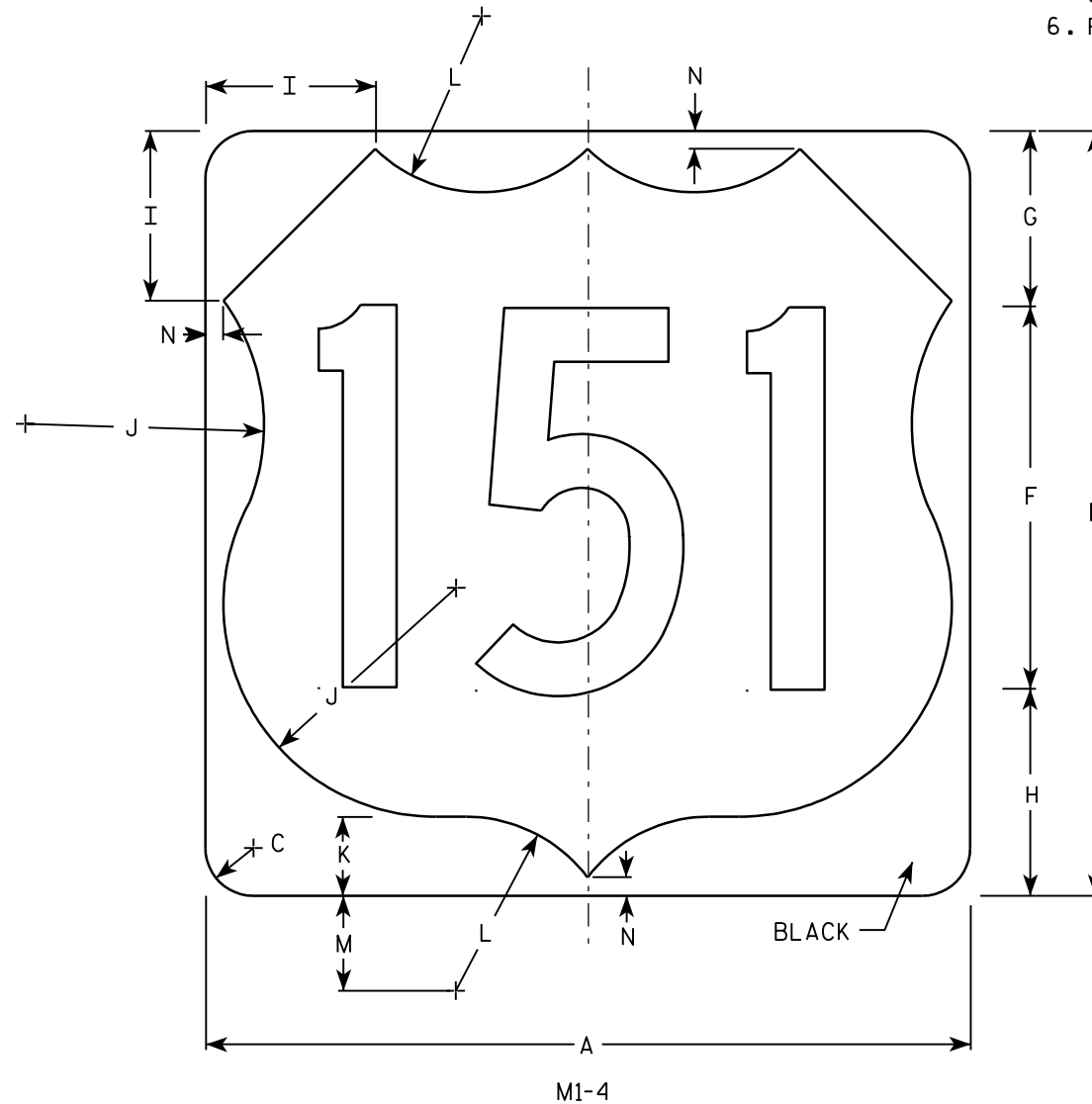
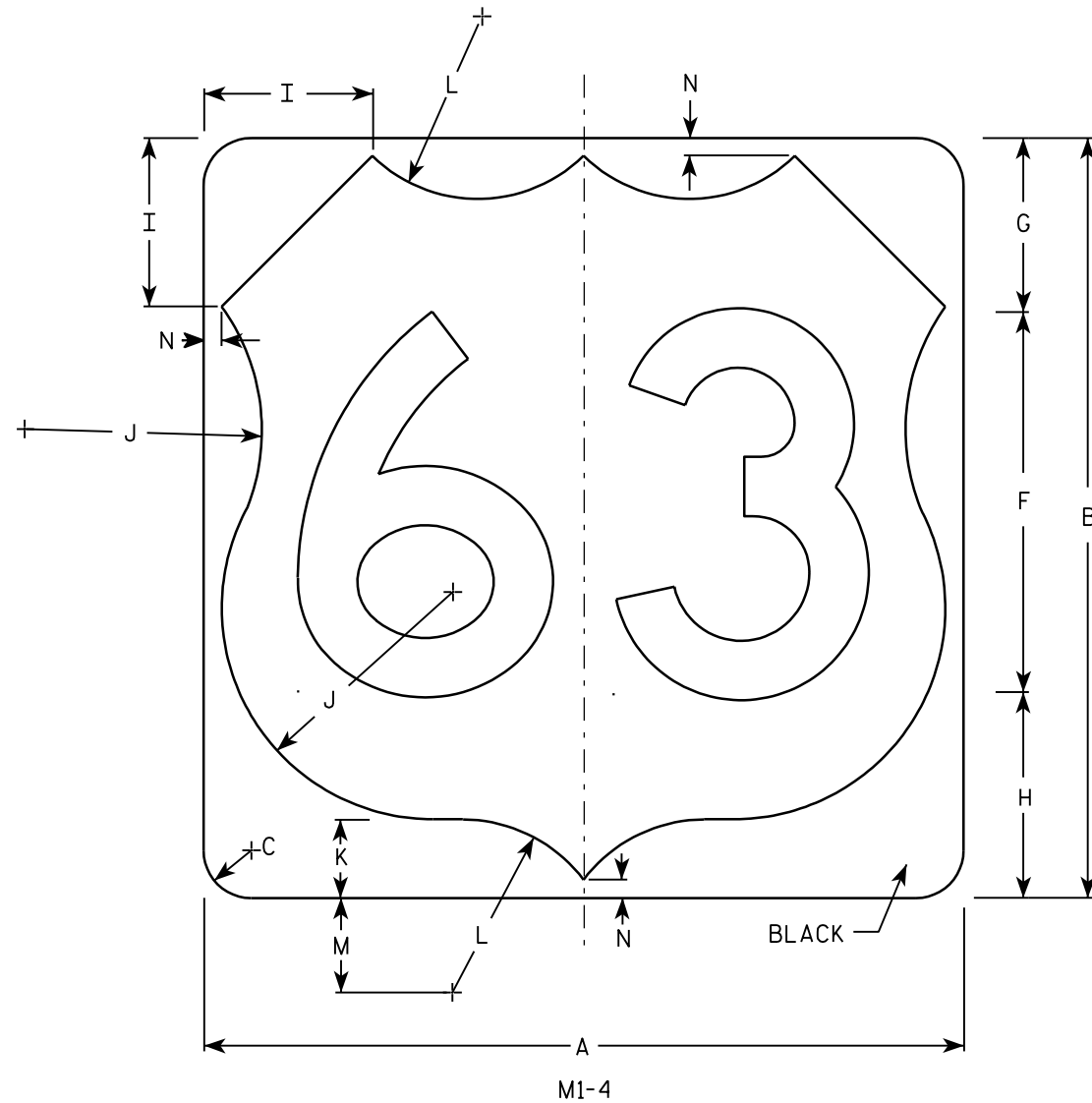
COUNTY:

SHEET NO:

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



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	Areq sq. ft.	Area m ²
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

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E
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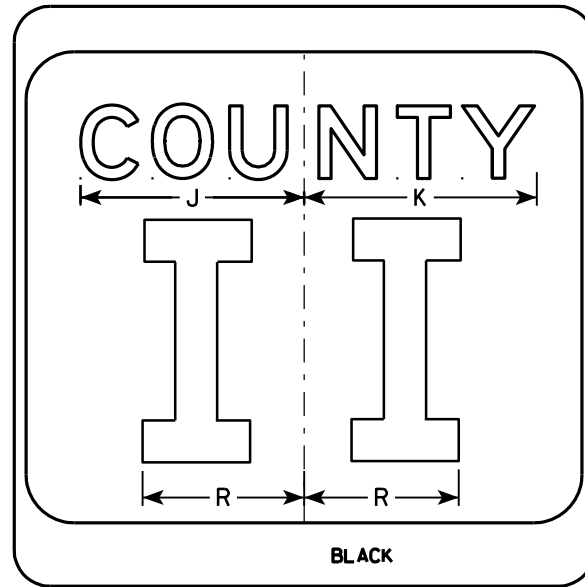
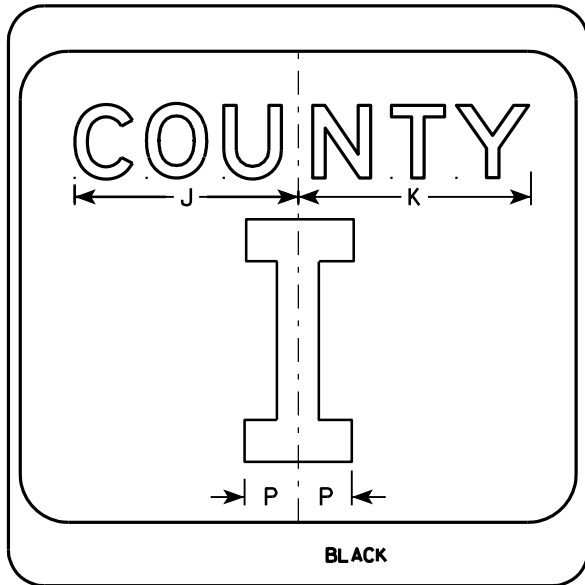
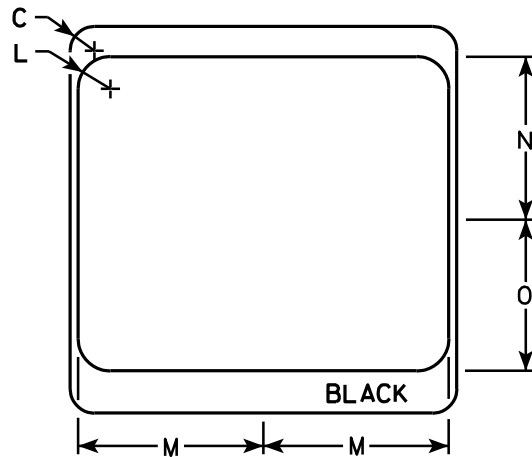
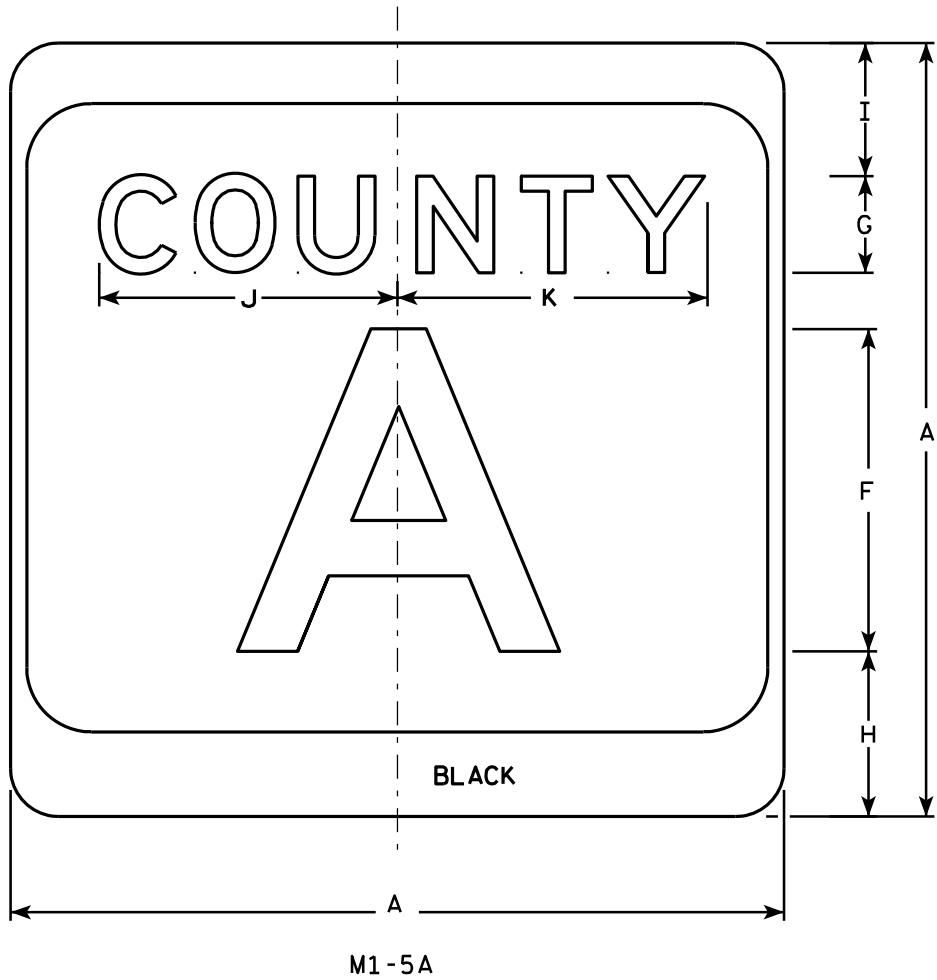
USH MARKER
M1-4 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
For State Traffic Engineer

DATE 08/25/05 PLATE NO. M1-4.9

7



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

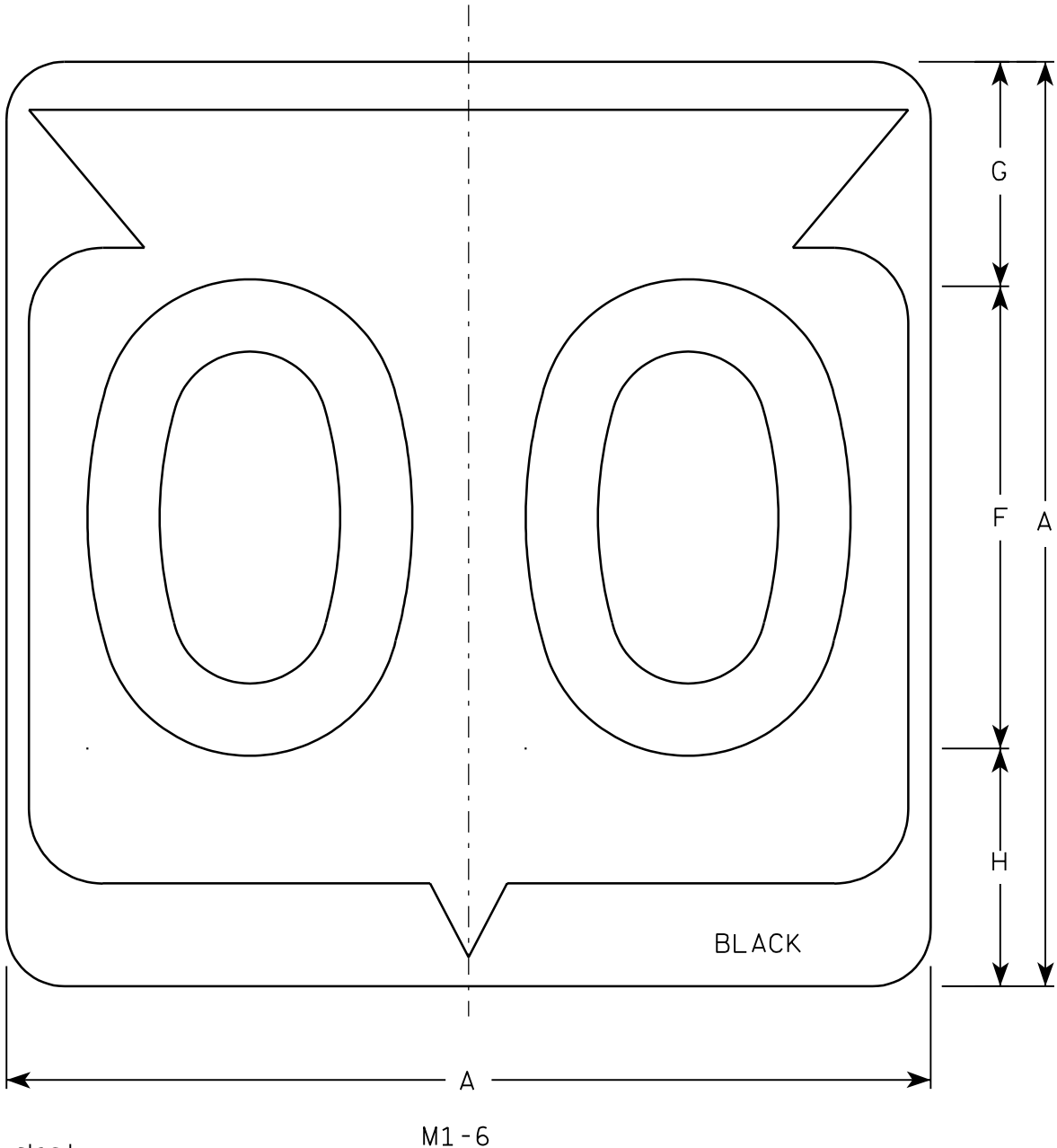
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 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	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 9/27/11	PLATE NO. M1-5A.8

PROJECT NO:	HWY:	COUNTY:	SHEET NO:	E
-------------	------	---------	-----------	---

7

7



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 m ²
1																												
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0	.36
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81

PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E

FILE NAME : C:\Users\Projects\tr_std\plate\M16.DGN

PLOT DATE : 13-OCT-2005 14:55

PLOT BY : DITJPH

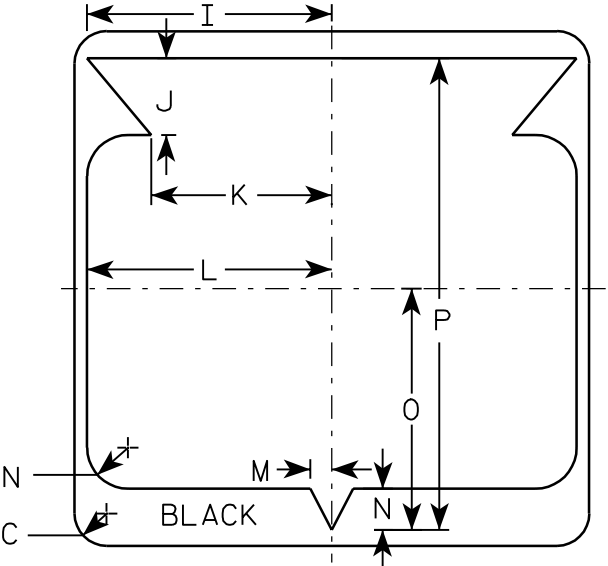
PLOT NAME :

PLOT SCALE : 6.715871:1.000000

WISDOT/CADDS SHEET 42

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 Series numerals and adjust spacing as per plate A10-1.
6. Permanent Signs
Background - Type H Reflective
Detour or temporary Signs
Background - Reflective



STATE ROUTE MARKER
M1-6 FOR ASSEMBLIES

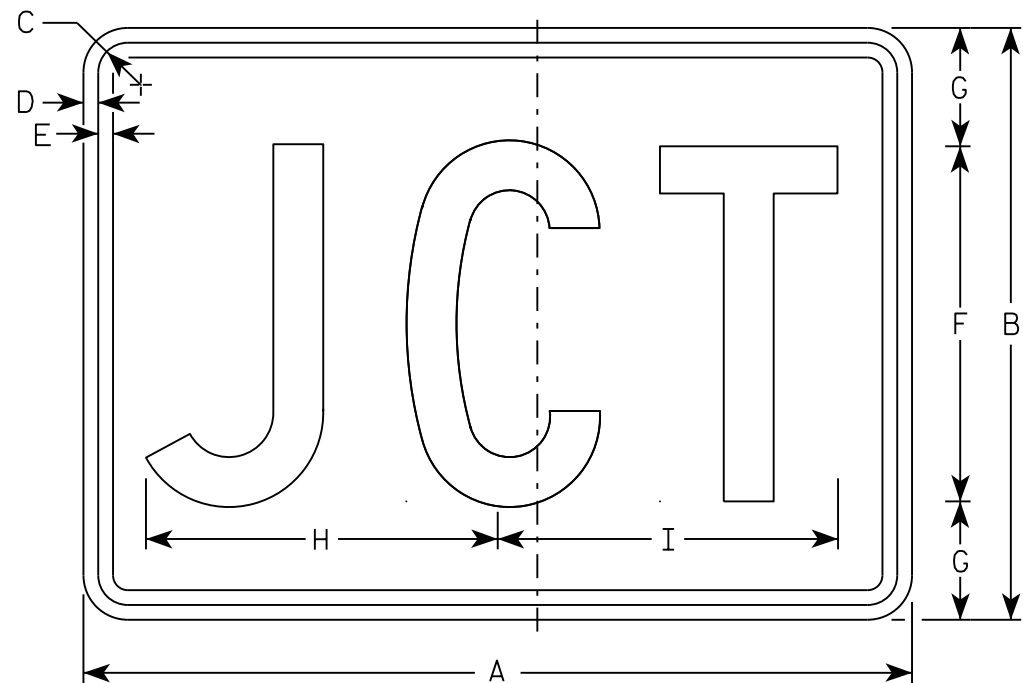
WISCONSIN DEPT OF TRANSPORTATION

APPROVED

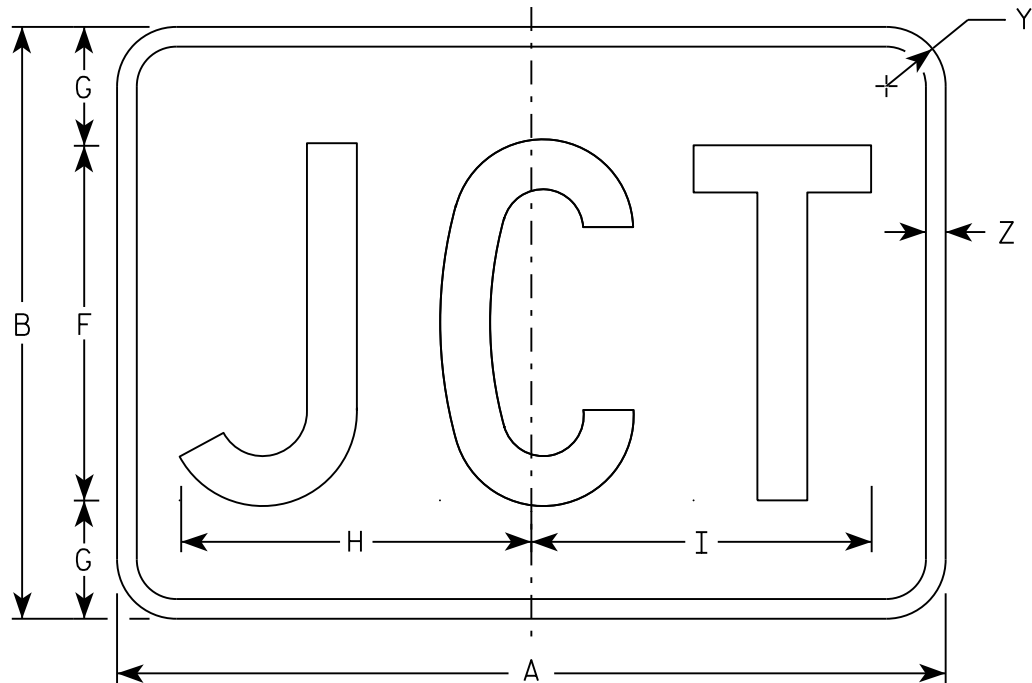
Chester J. Spang
for State Traffic Engineer

DATE 3/20/02

PLATE NO. M1-6.9



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

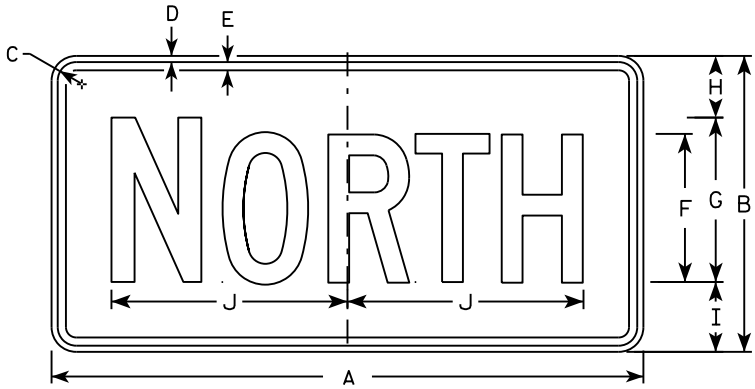
APPROVED

Matthew R. Rauch

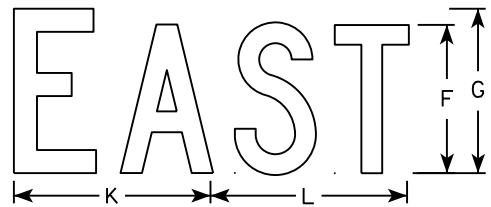
For State Traffic Engineer

DATE 10/15/15

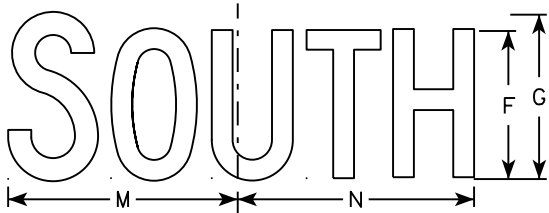
PLATE NO. M2-1.12



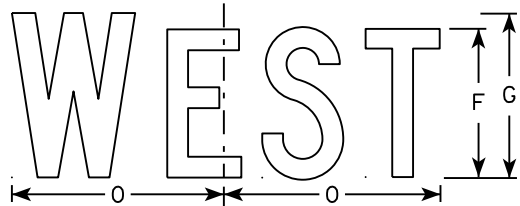
M3-1
MM3-1
MP3-1



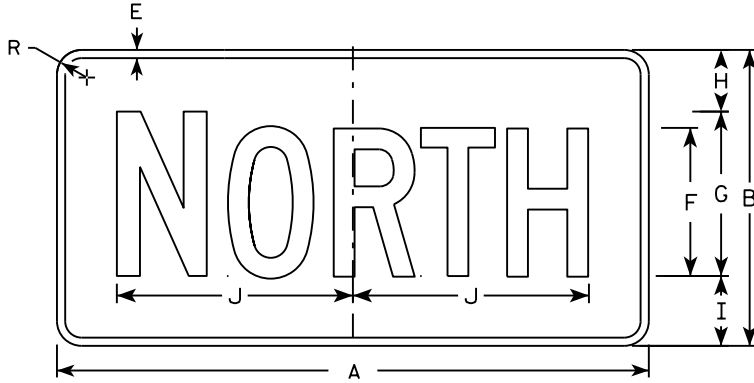
M3-2
MM3-2
MP3-2



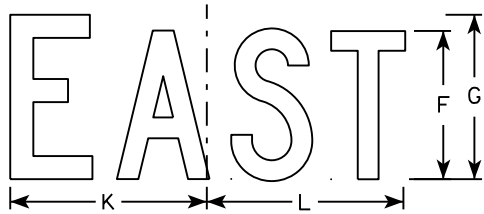
M3-3
MM3-3
MP3-3



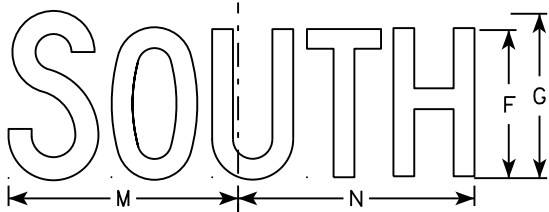
M3-4
MM3-4
MP3-4



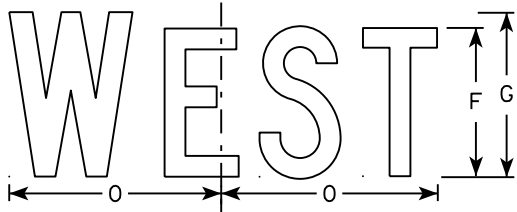
MB3-1
MK3-1
MN3-1



MB3-2
MK3-2
MN3-2



MB3-3
MK3-3
MN3-3



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.

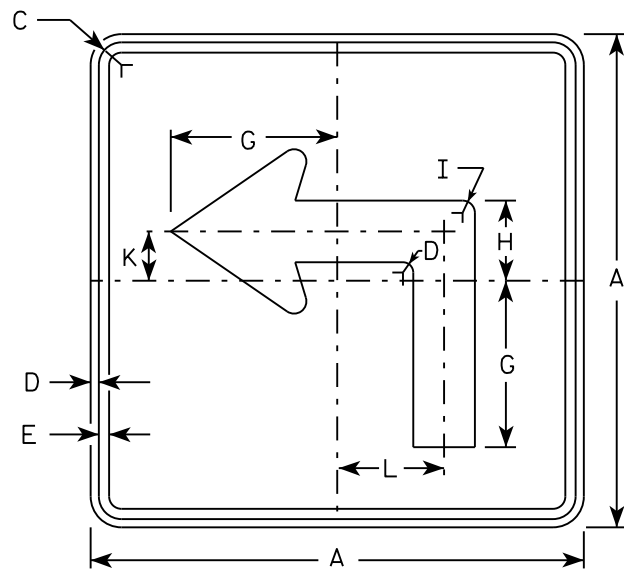
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	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 thru M3-4
SERIES

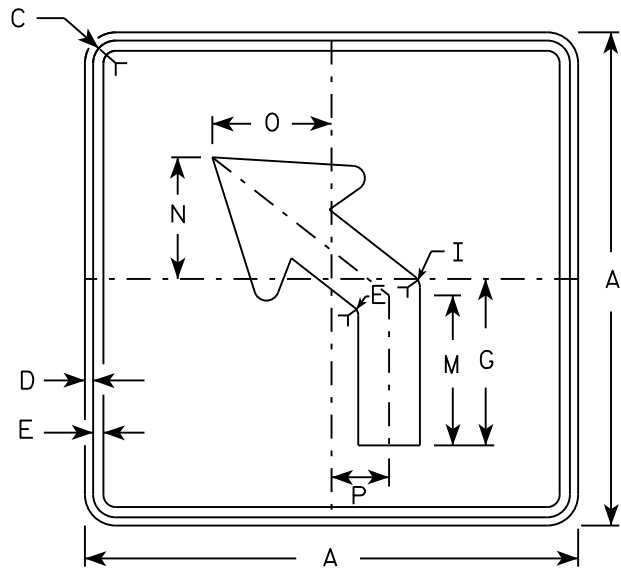
WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

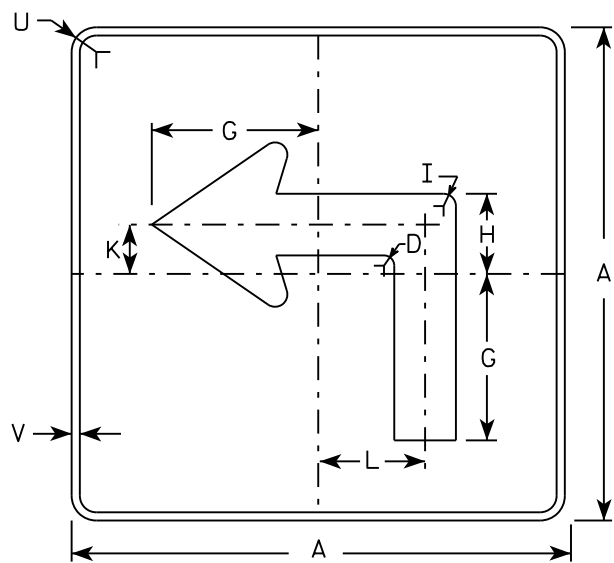
DATE 10/15/15 PLATE NO. M3-1.14



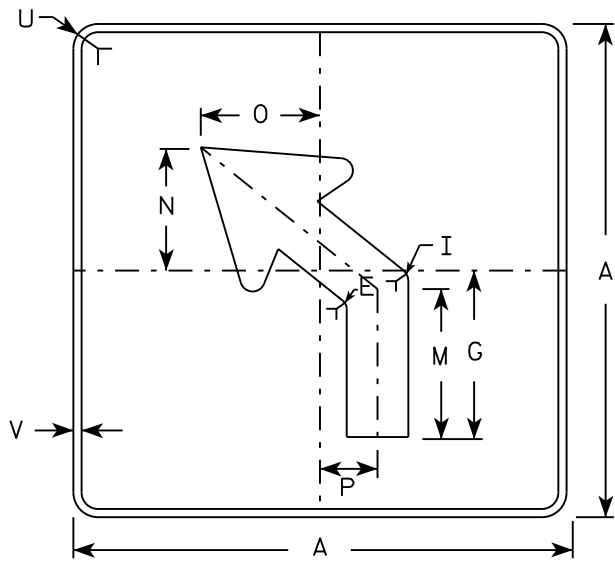
M5-1L
MM5-1L
M05-1L
MP5-1L



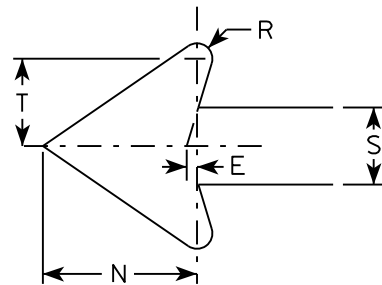
M5-2L
MM5-2L
M05-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L



MB5-2L
MK5-2L
MN5-2L
MR5-2L



NOTES

- Signs are Type II - Type H reflective except as shown
- Color:
Background - See note 4
Message - See note 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.
- 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
M05-1 and M05-2 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
- M5-1R same as M5-1L except arrow points right.
- 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

PROJECT NO:

HWY:

COUNTY:

SHEET NO:

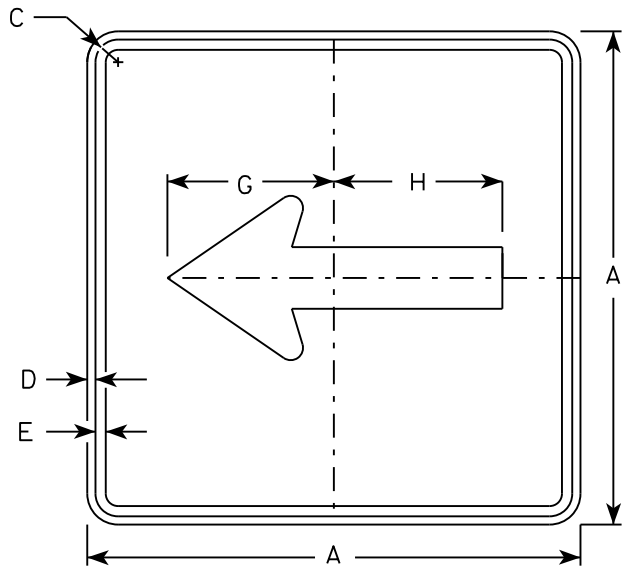
E

STANDARD SIGN
M5-1 & M5-2

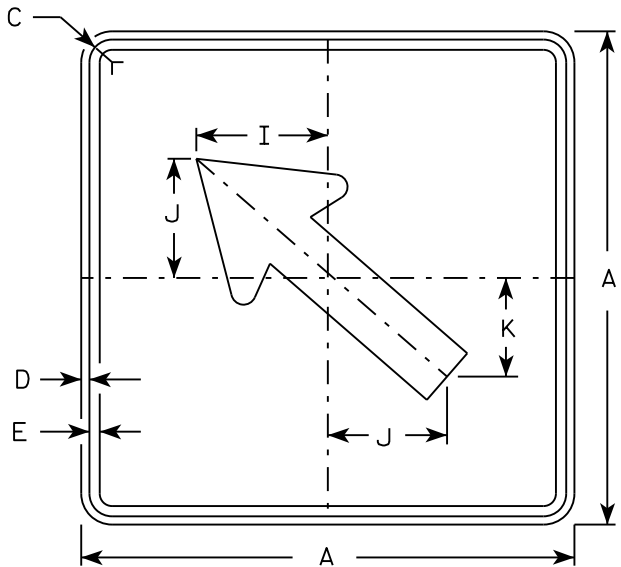
WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

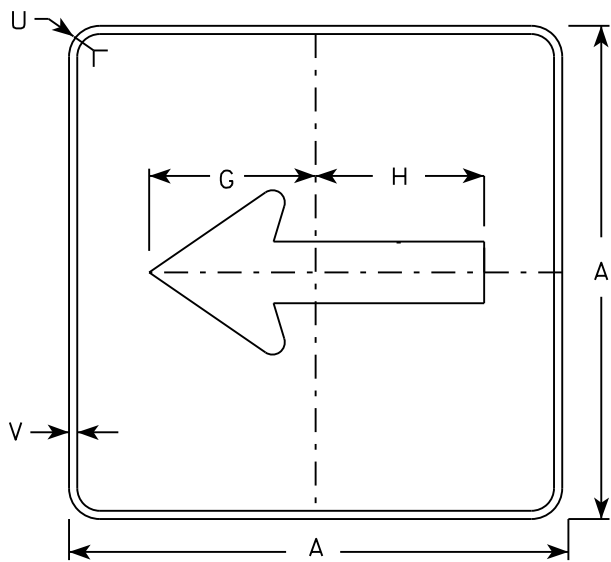
DATE 10/15/15 PLATE NO. M5-1.13



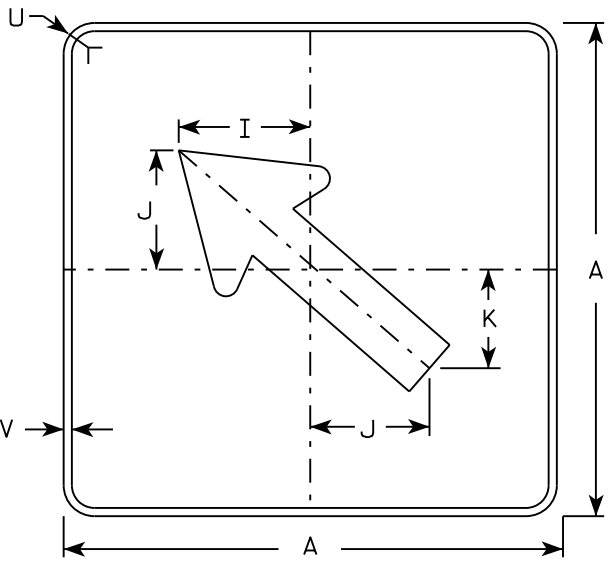
M6 - 1
MM6 - 1
M06 - 1
MP6 - 1



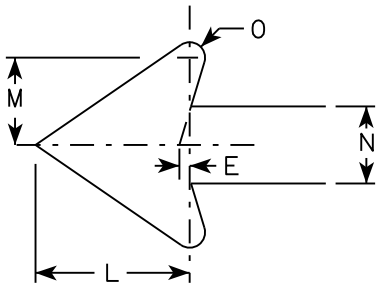
M6 - 2
MM6 - 2
M06 - 2
MP6 - 2



MB6 - 1
MK6 - 1
MN6 - 1
MR6 - 1



MB6 - 2
MK6 - 2
MN6 - 2
MR6 - 2



NOTES

- Signs are Type II - Type H except as Shown
- Color:
Background - See note 4
Message - See note 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.
- 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
M06-1 and M06-2 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

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

PROJECT NO:

HWY:

COUNTY:

SHEET NO:

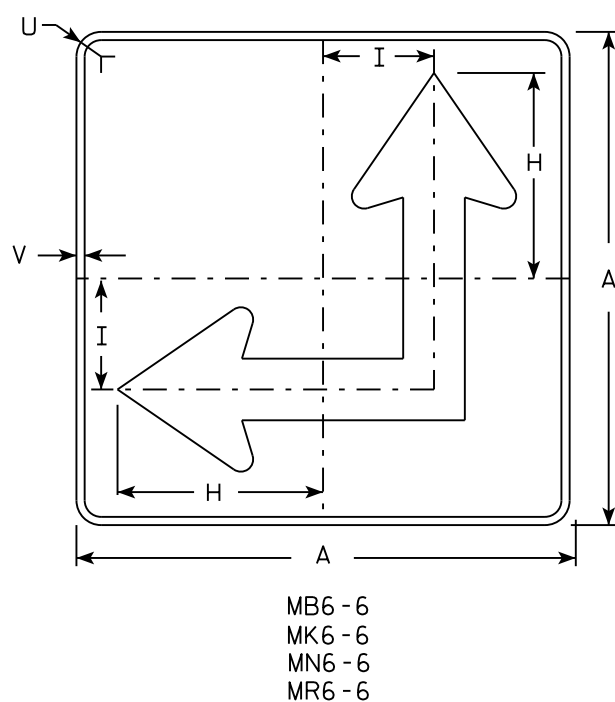
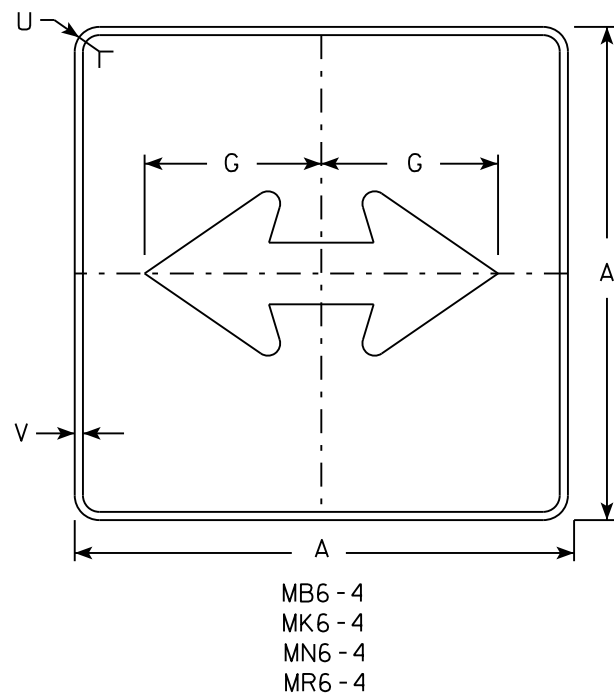
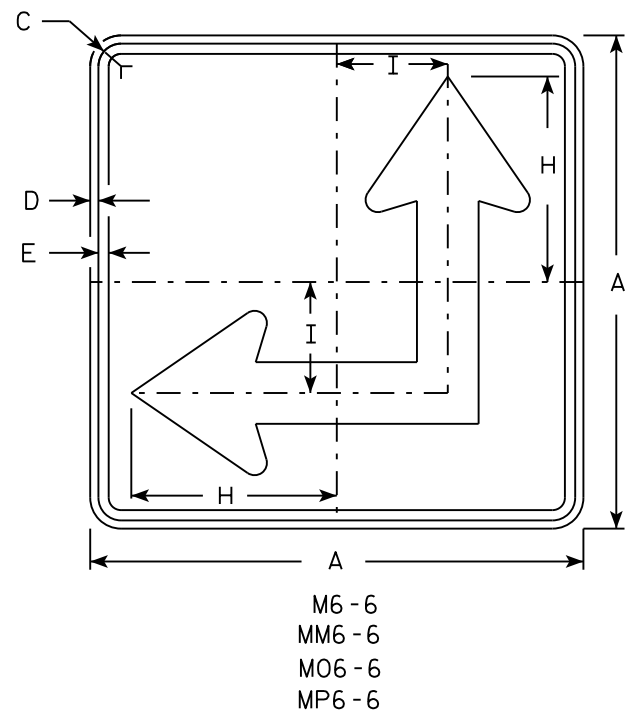
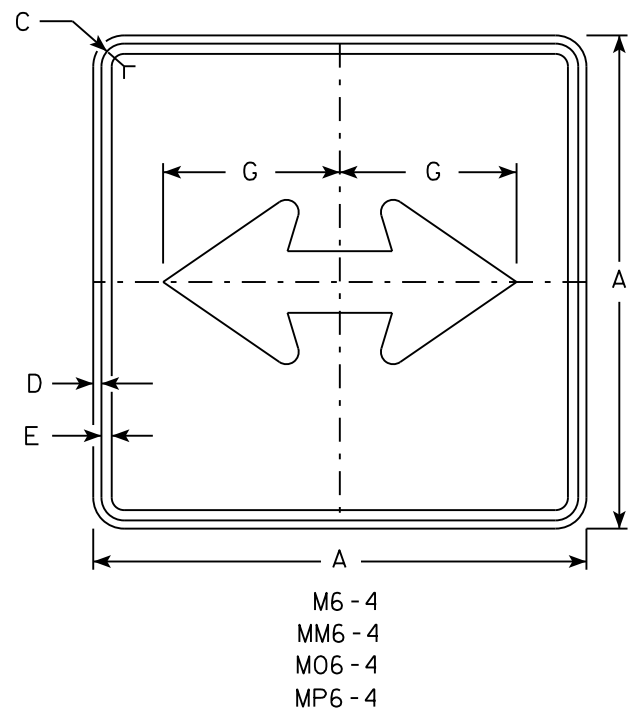
E

STANDARD SIGN
M6 - 1 & M6 - 2
SERIES

WISCONSIN DEPT OF TRANSPORTATION

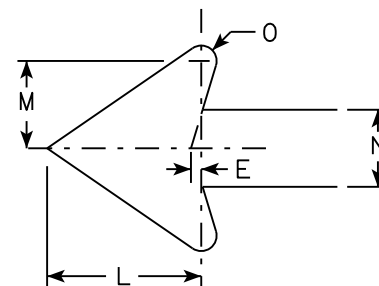
APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE NO. M6-1.15



NOTES

- Signs are Type II - Type H except as Shown
- Color:
Background - See Note 4
Message - See Note 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.
- M6-4 and M6-6 Background - White
Message - Black
MB6-4 and MB6-6 Background - Blue
Message - White
MK6-4 and MK6-6 Background - Green
Message - White
MM6-4 and MM6-6 Background - White
Message - Green
MN6-4 and MN6-6 Background - Brown
Message - White
MO6-4 and MO6-6 Background - Orange - Type F Reflective
Message - Black
MP6-4 and MP6-6 Background - White
Message - Blue
MR6-4 and MR6-6 Background - Brown
Message - Yellow
- M6-6R same as M6-6L except arrow points ahead and 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 1/2	8 3/4	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	12 1/2	6 3/4			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	12 1/2	6 3/4			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	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25

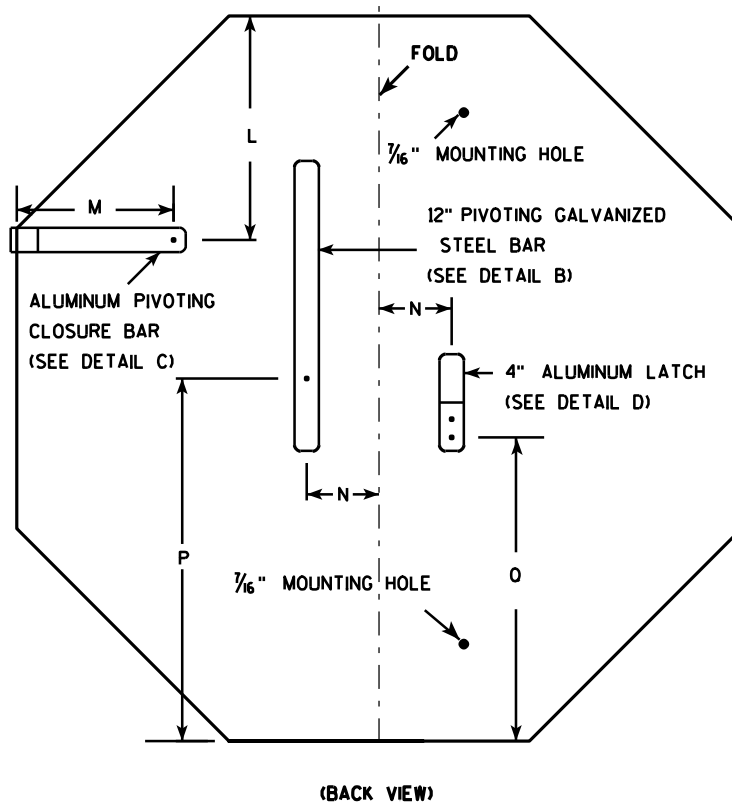
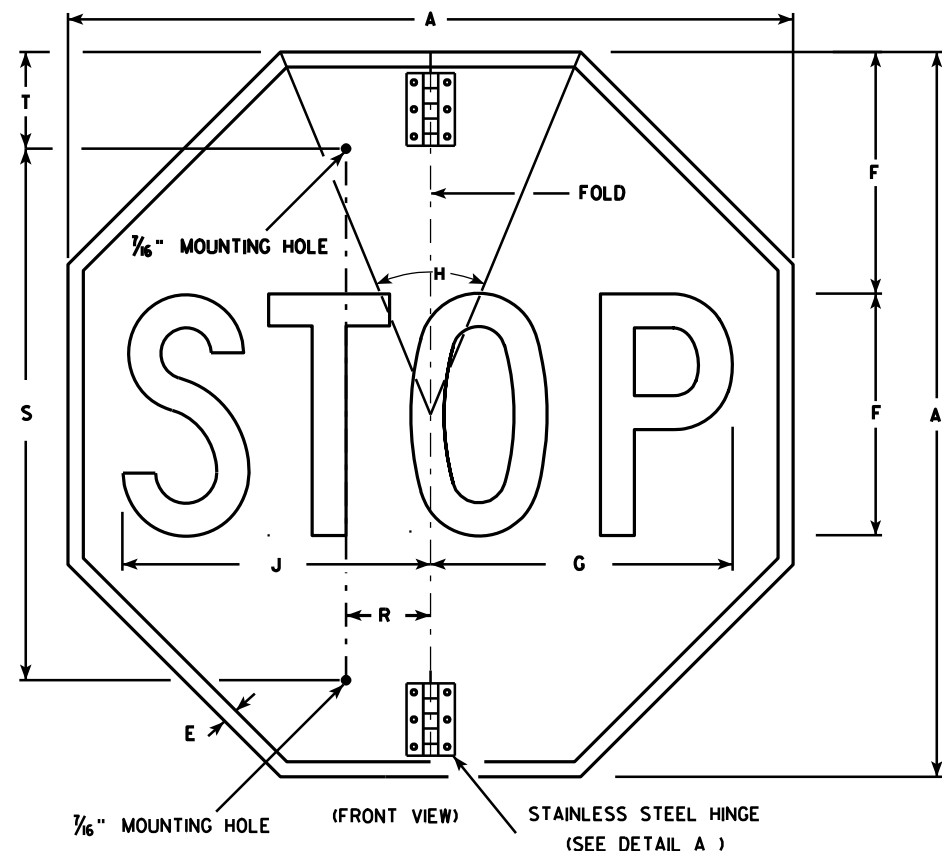
PROJECT NO:	HWY:	COUNTY:	SHEET NO:	E
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STANDARD SIGN
M6 - 4 & M6 - 6
SERIES

WISCONSIN DEPT OF TRANSPORTATION

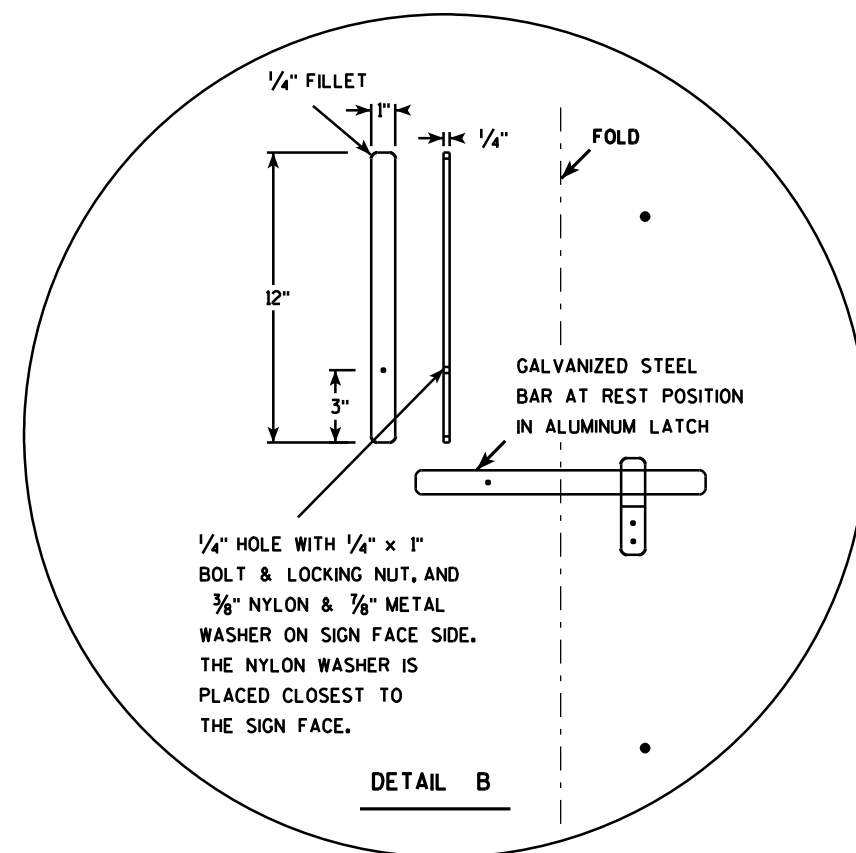
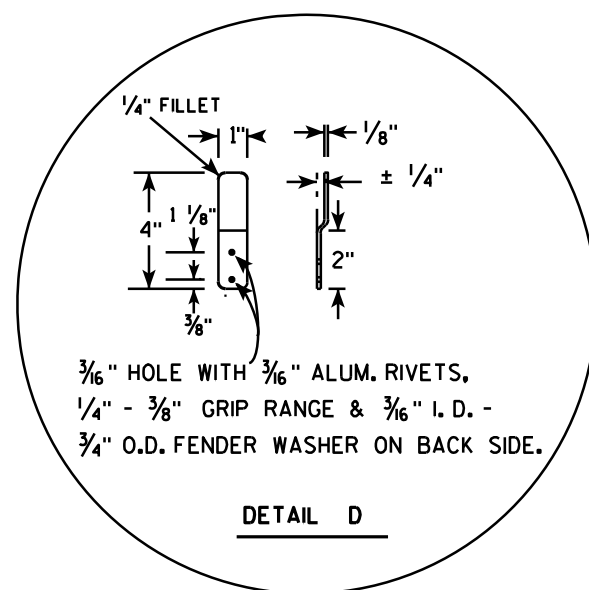
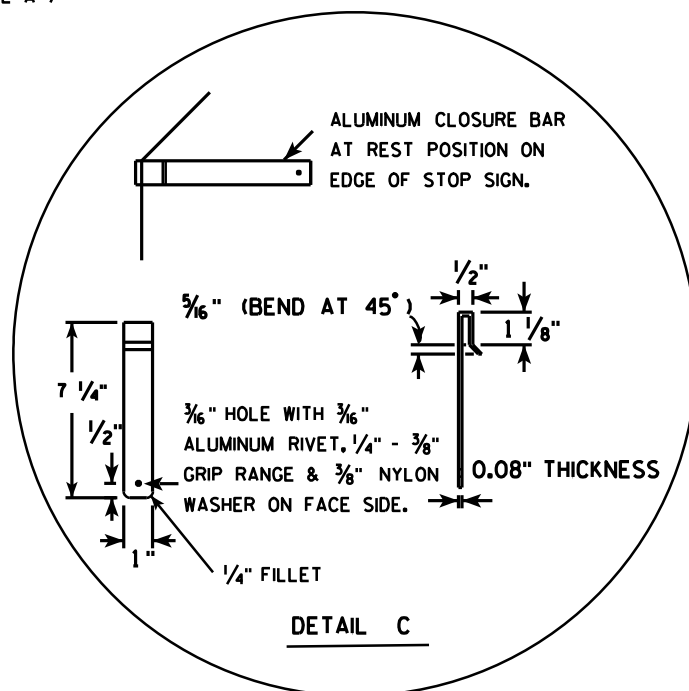
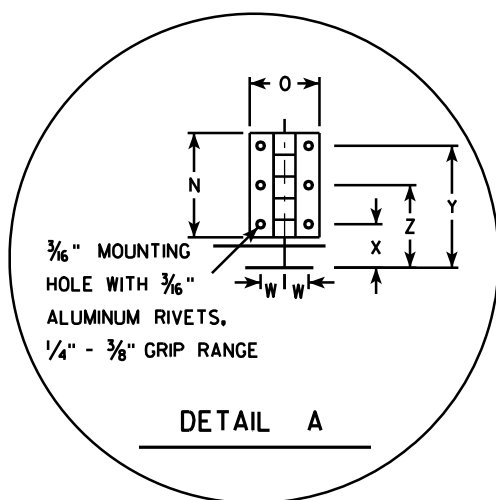
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 10/15/15 PLATE NO. M6-4.10



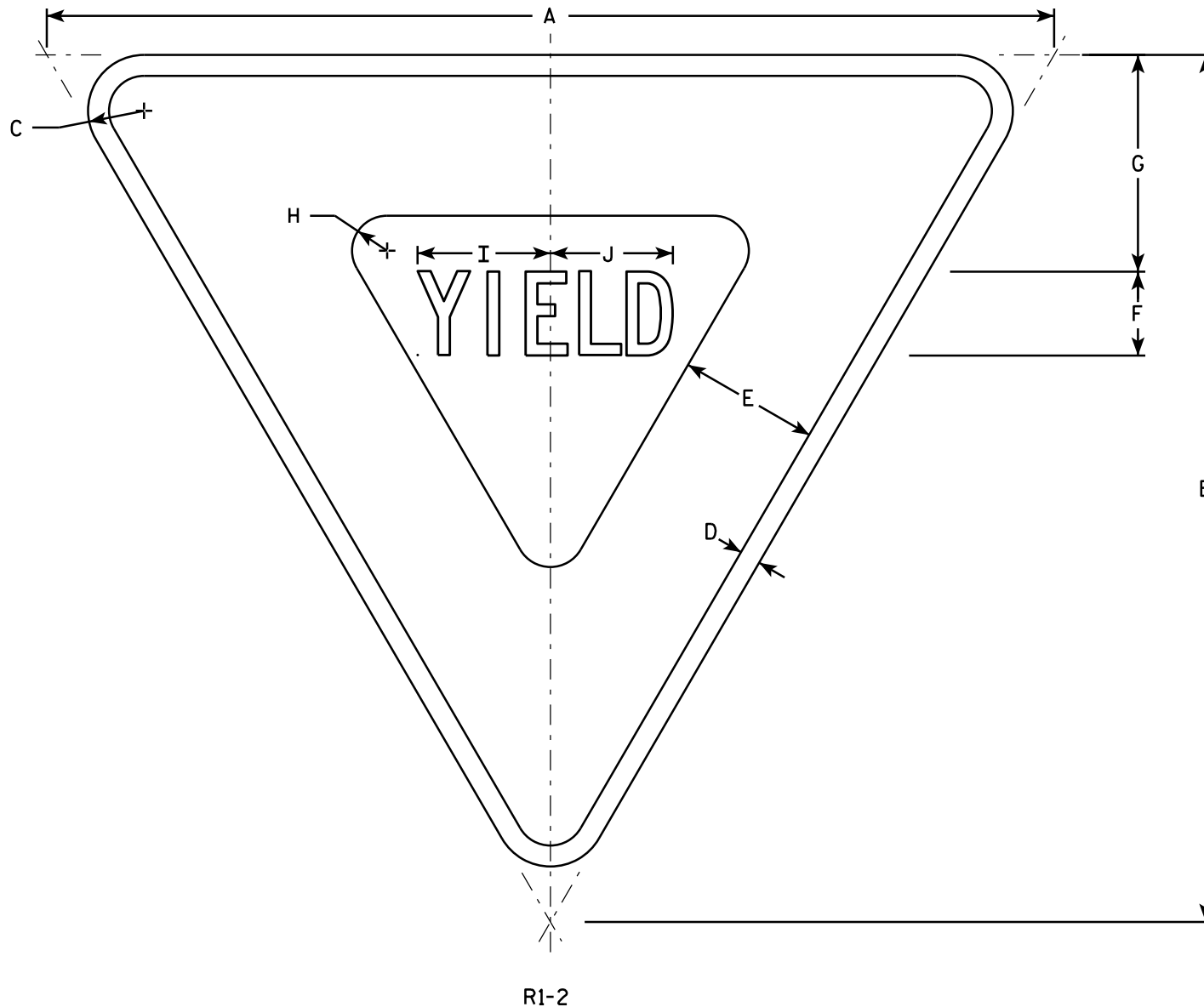
NOTES

- Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:
Background - Red
Message - White
- Message Series - C
- All hardware used on the folding STOP sign installation shall conform to 637.2.4 of the WIS DOT Standard Specification.



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	30				5/8	10	12 1/2	45		12 3/4		9 1/4	6 1/2	3	2	15	12 3/8	2 1/2	22	5			11/16	1 1/4	3 1/2	2 3/8	5.18
2M	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
3	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
4																											
5																											

STANDARD SIGN R1-1F	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> for State Traffic Engineer
DATE 12/03/10	PLATE NO. R1-1F.3



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 - 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. The border strip and word message are reflectorized red.

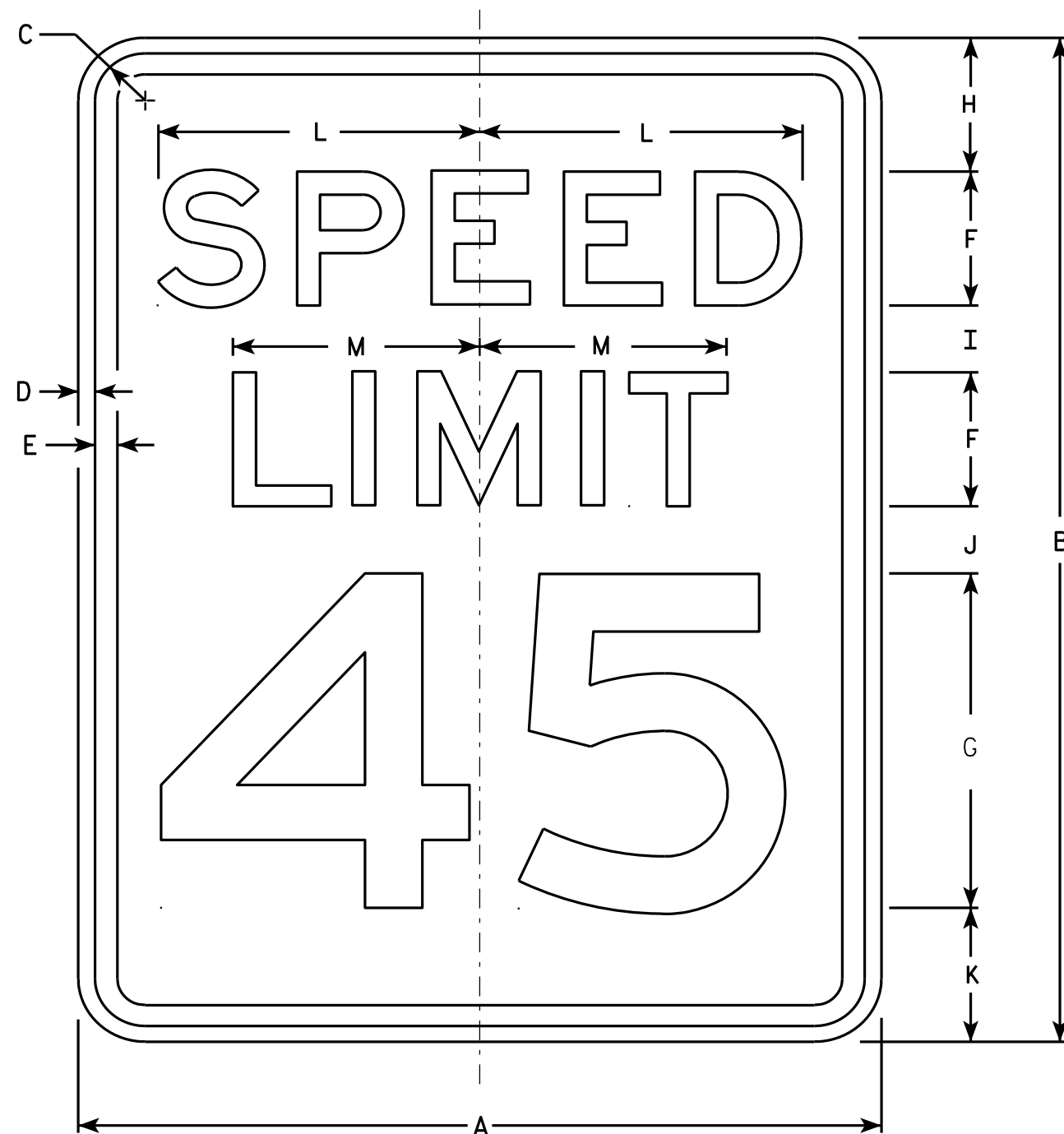
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	26	1 1/2	5/8	4	2 1/2	6 3/8	7/8	4	3 5/8																	2.71
2S	36	31	2	3/4	5	3	7 3/4	1 1/4	4 3/4	4 3/8																	3.88
2M	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
3	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
4	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
5	60	52	3	1 1/2	8	5	13	2 1/2	7 7/8	7 1/4																	10.83
6																											
7	18	15 1/2	1	3/8	2 1/2	1 1/2	3 7/8	5/8	2 3/8	2 1/4																	0.97

STANDARD SIGN
R1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 10/13/14 PLATE NO. R1-2.12



R2-1

NOTES

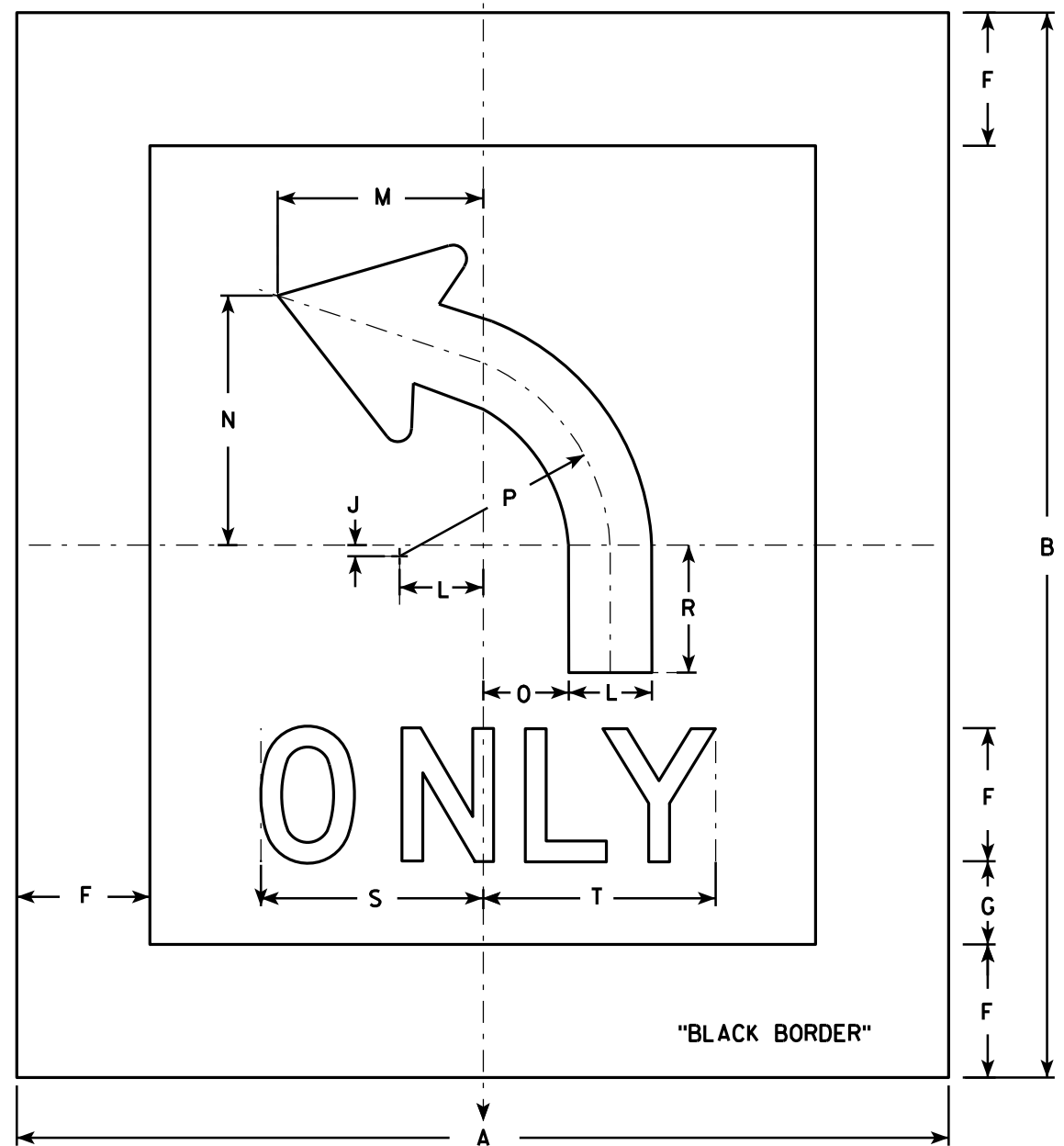
1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White
Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as 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

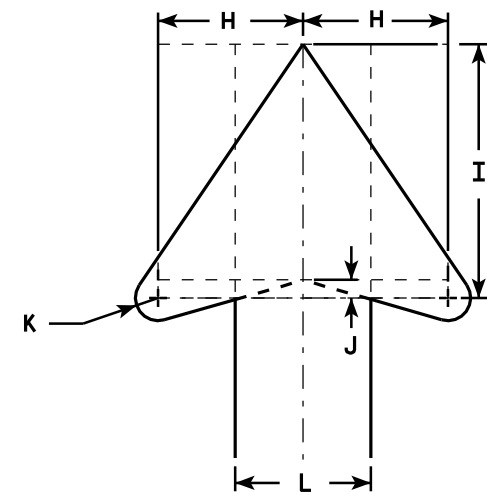
PROJECT NO: HWY: COUNTY: SHEET NO: E



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 ¾	4	7	½	⅝	3 ¾	9 ¼	11 ¼	3 ⅞	9 ½		5 ¾	10	10 ½							1.26
2M	42	48				6	3 ¾	4	7	½	⅝	3 ¾	9 ¼	11 ¼	3 ⅞	9 ½		5 ¾	10	10 ½							1.26
3																											
4																											
5																											

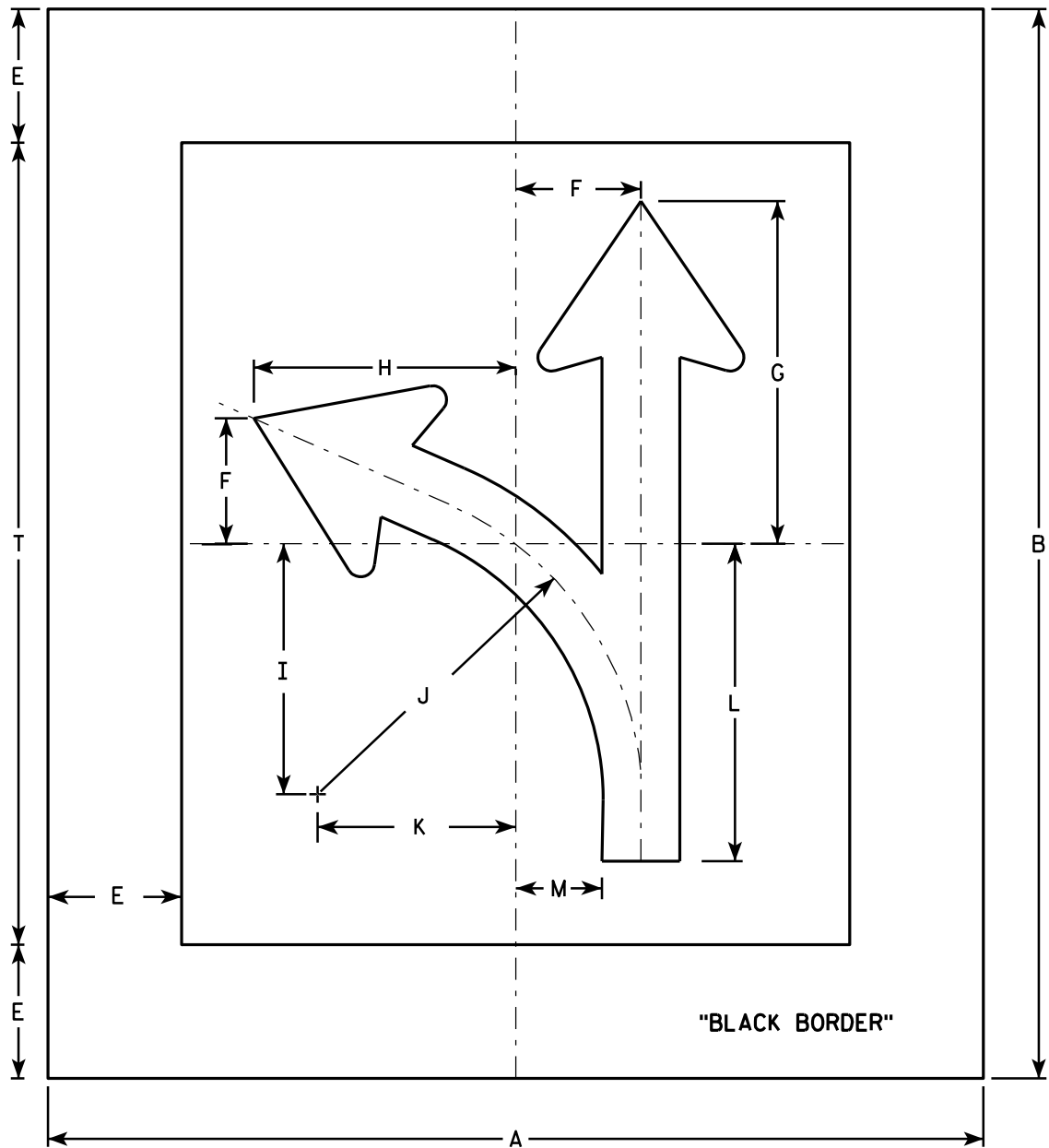
PROJECT NO:	HWY:	COUNTY:	SHEET NO:	E
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STANDARD SIGN
R3-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rasch*
for State Traffic Engineer

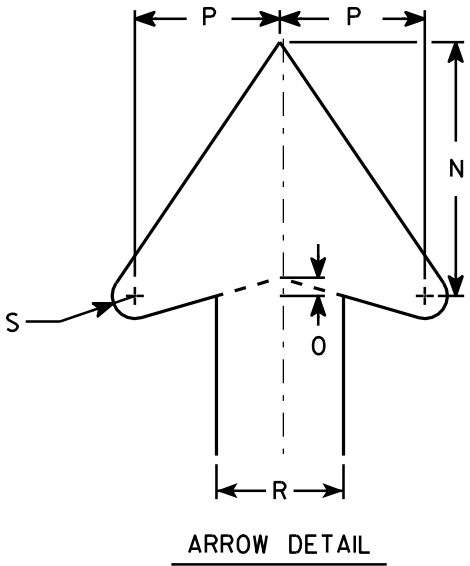
DATE 2/24/11 PLATE NO. R3-5.6



R3-6L

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. Corners may be square or rounded when base material is plywood. When base material is metal, the corners shall be rounded.
- 4. R3-6R is the same as R3-6L except curved portion of arrow points right.
- 5. The 6" border is non-reflective 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																											
2S	42	48			6	5 5/8	15 3/8	11 3/4	11 1/4	14 1/2	8 7/8	14 1/4	3 7/8	7	1/2	4		3 1/2	5/8	36							14.0
2M	42	48			6	5 5/8	15 3/8	11 3/4	11 1/4	14 1/2	8 7/8	14 1/4	3 7/8	7	1/2	4		3 1/2	5/8	36							14.0
3																											
4																											
5																											

PROJECT NO:

HWY:

COUNTY:

SHEET NO:

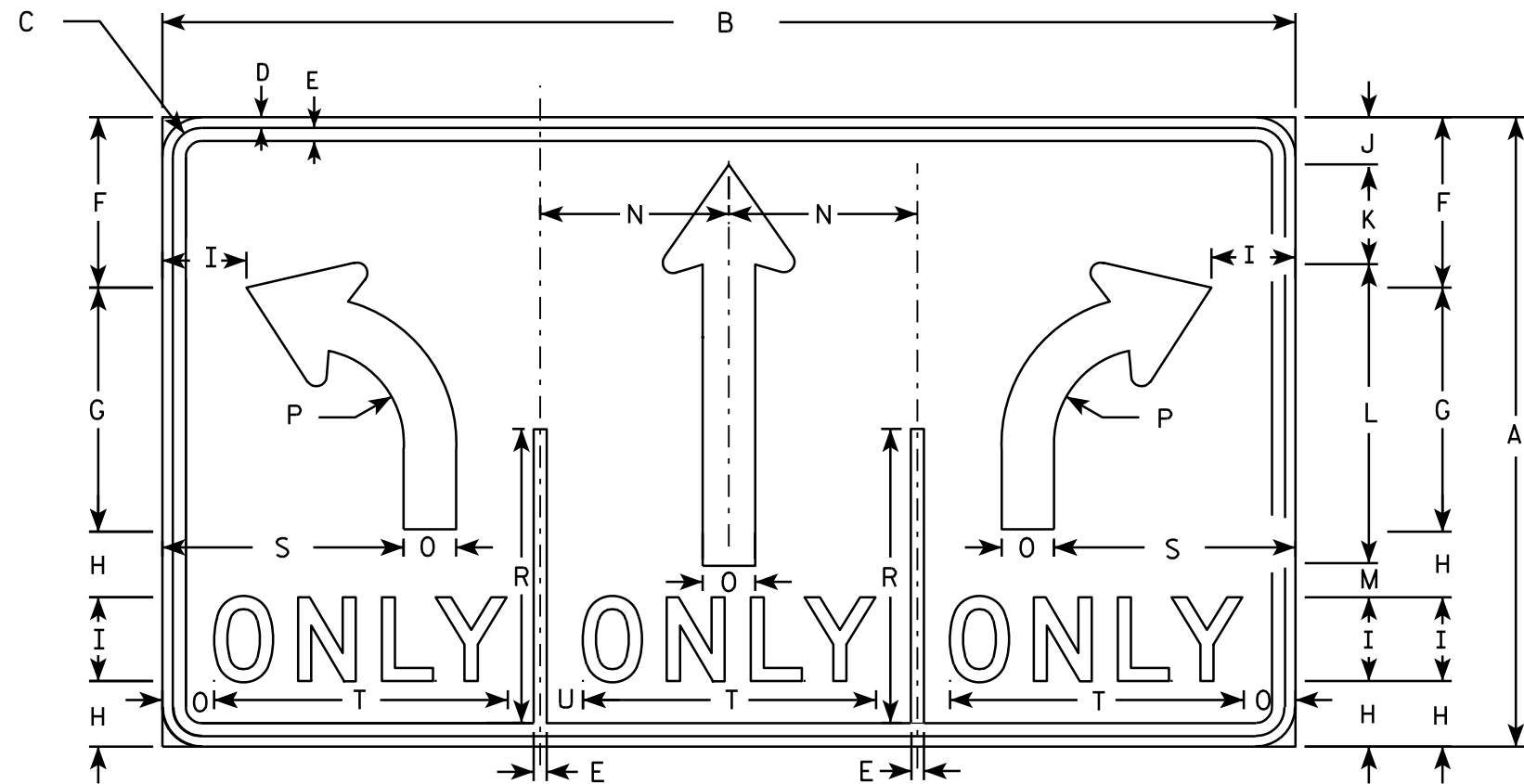
E

STANDARD SIGN
R3-6

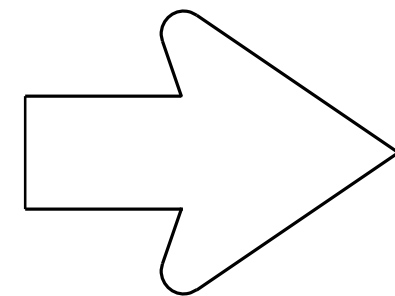
WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 3/17/2011 PLATE NO. R3-6.5



R3-8W



SEE R3-8 FOR ARROW DETAIL

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.

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																											
2S	30	54	1 3⁄8	½	5⁄8	8 1⁄8	11 5⁄8	3 1⁄8	4	2 ¼	4 ¾	14 ¼	1 5⁄8	9	2 ½	4 ½		14	11 ½	14	2						11.25
2M	30	54	1 3⁄8	½	5⁄8	8 1⁄8	11 5⁄8	3 1⁄8	4	2 ¼	4 ¾	14 ¼	1 5⁄8	9	2 ½	4 ½		14	11 ½	14	2						11.25
3																											
4	48	84	2 ¼	¾	1	13	18 ½	5 ¼	6	3 ¾	7	29 ⅛	2 ⅜	14	3 ¾	7 ¼		22 ⅜	17 ¼	20 ½	3 ¼						28.0
5	48	84	2 ¼	¾	1	13	18 ½	5 ¼	6	3 ¾	7	29 ⅛	2 ⅞	14	3 ¾	7 ¼		22 ⅜	17 ¼	20 ½	3 ¼						28.0

PROJECT NO:				SHEET NO:	E
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STANDARD SIGN
R3-8W

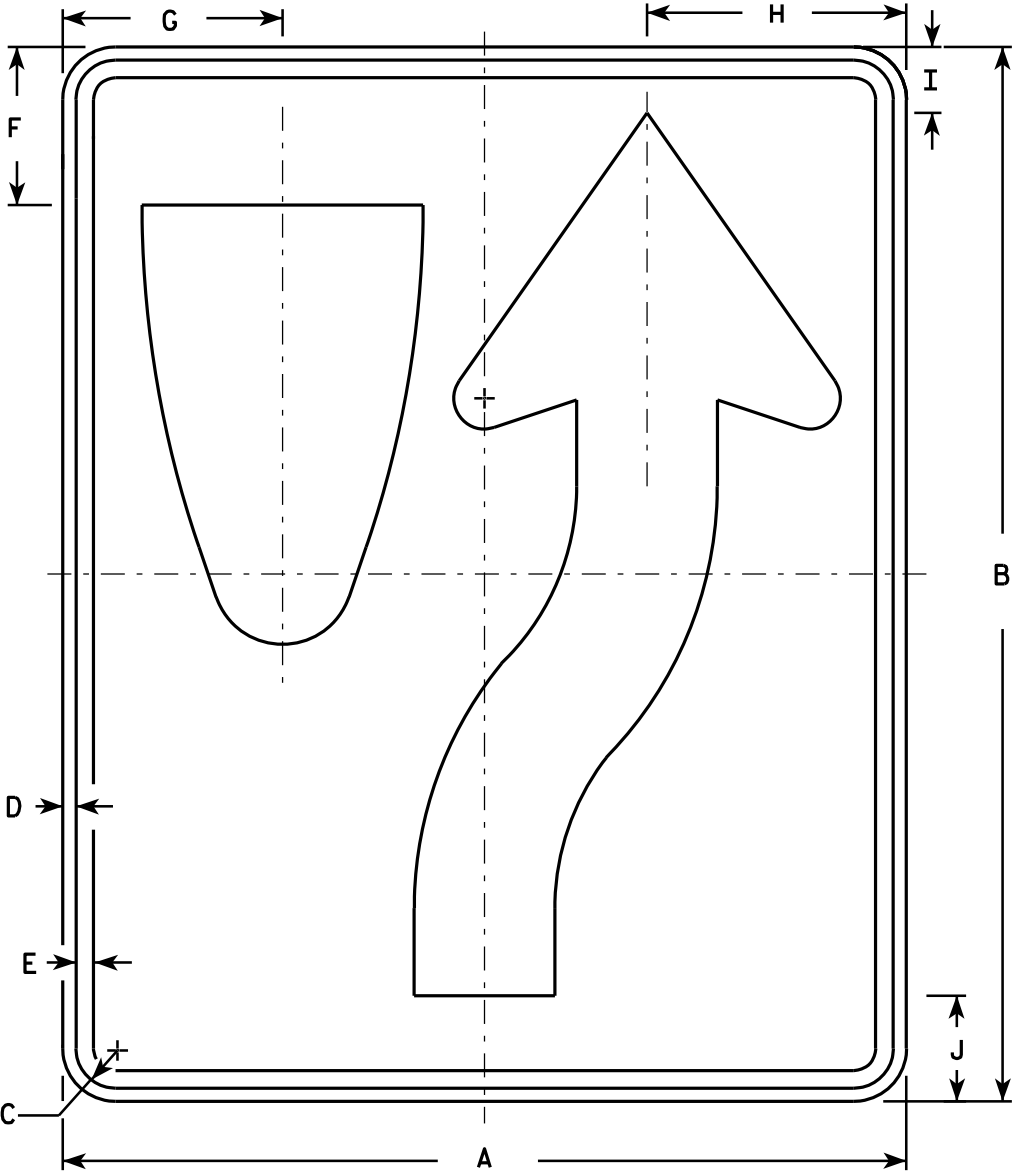
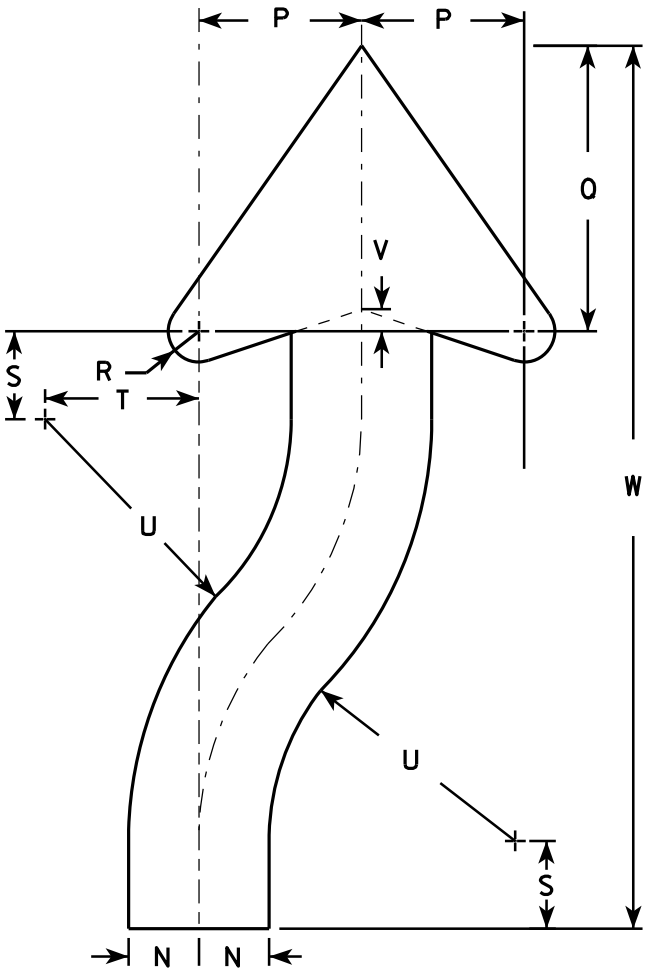
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/24/2011 PLATE NO. R3-8W.4

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.



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

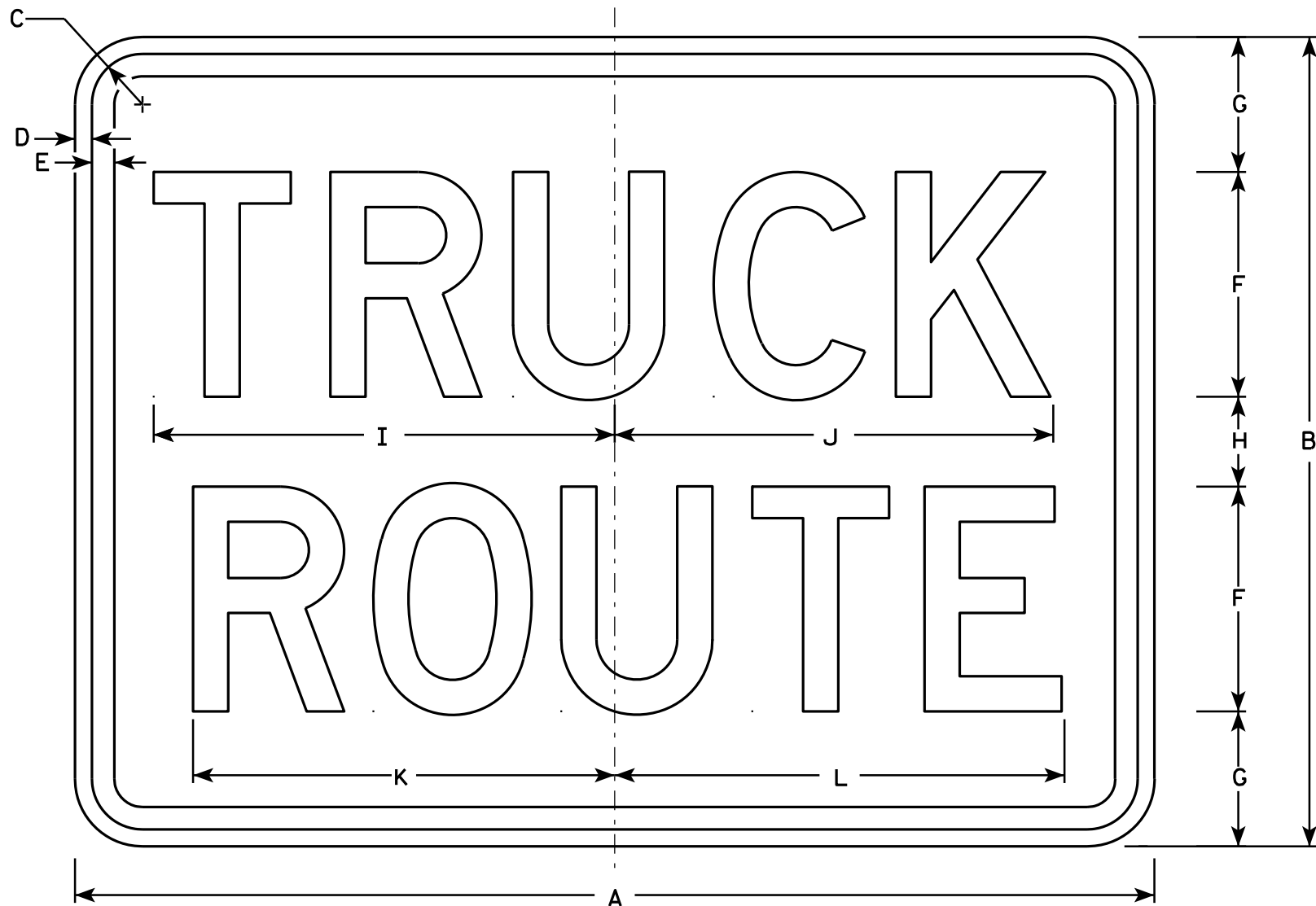
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E



R14-1

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

SIZE	A	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	5	3	2	10 1/4	9 3/4	9 3/8	10															3.0
2	24	18	1 1/8	3/8	1/2	5	3	2	10 1/4	9 3/4	9 3/8	10															3.0
3	30	24	1 1/8	3/8	1/2	6	4	4	12 1/4	11 3/4	11 1/4	12															5.0
4																											
5																											

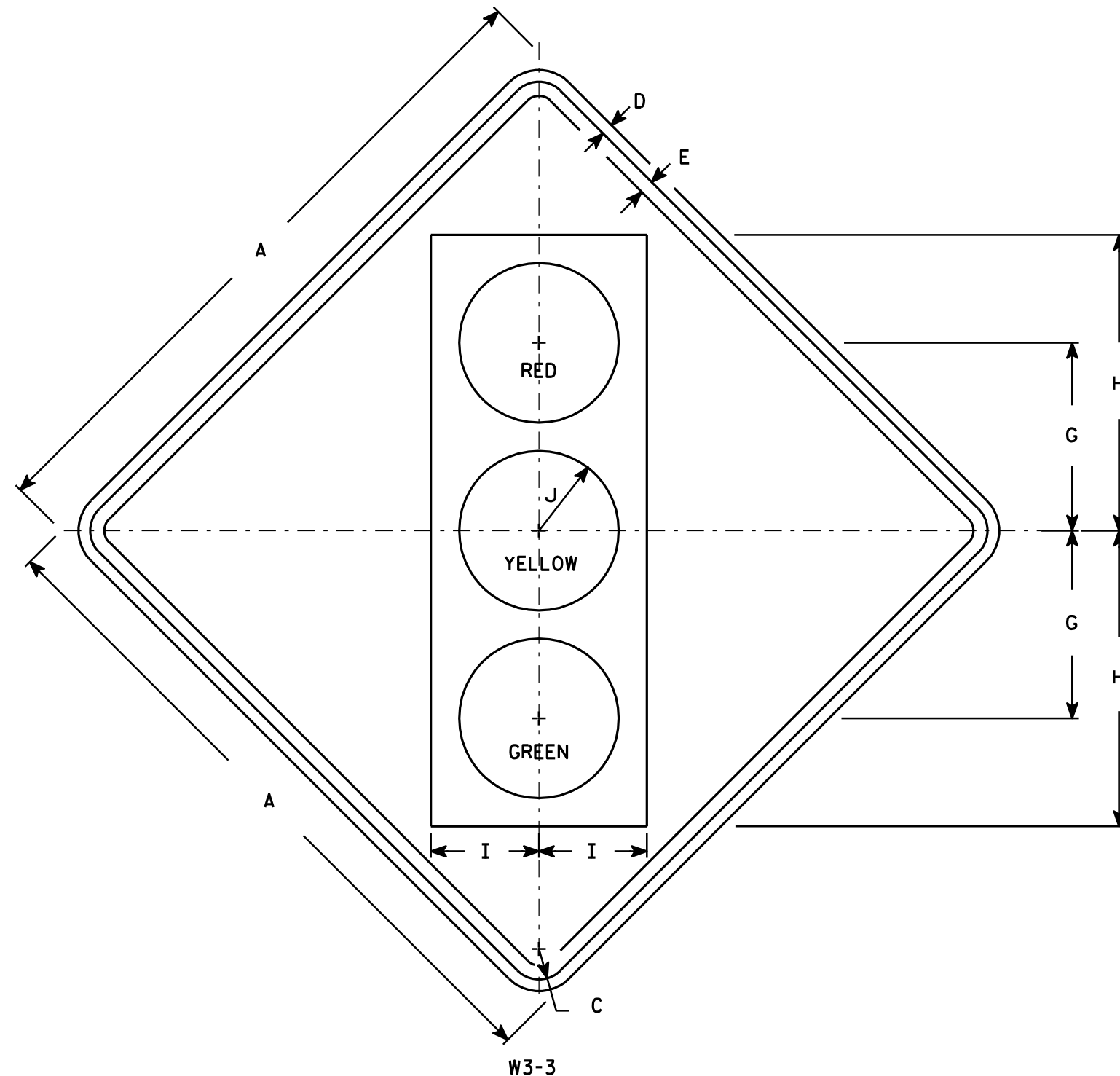
STANDARD SIGN
R14-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R14-1.6

PROJECT NO:	HWY:	COUNTY:	SHEET NO:	E
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NOTES

- Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:
Background - Yellow
Message - See Note 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.
- 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

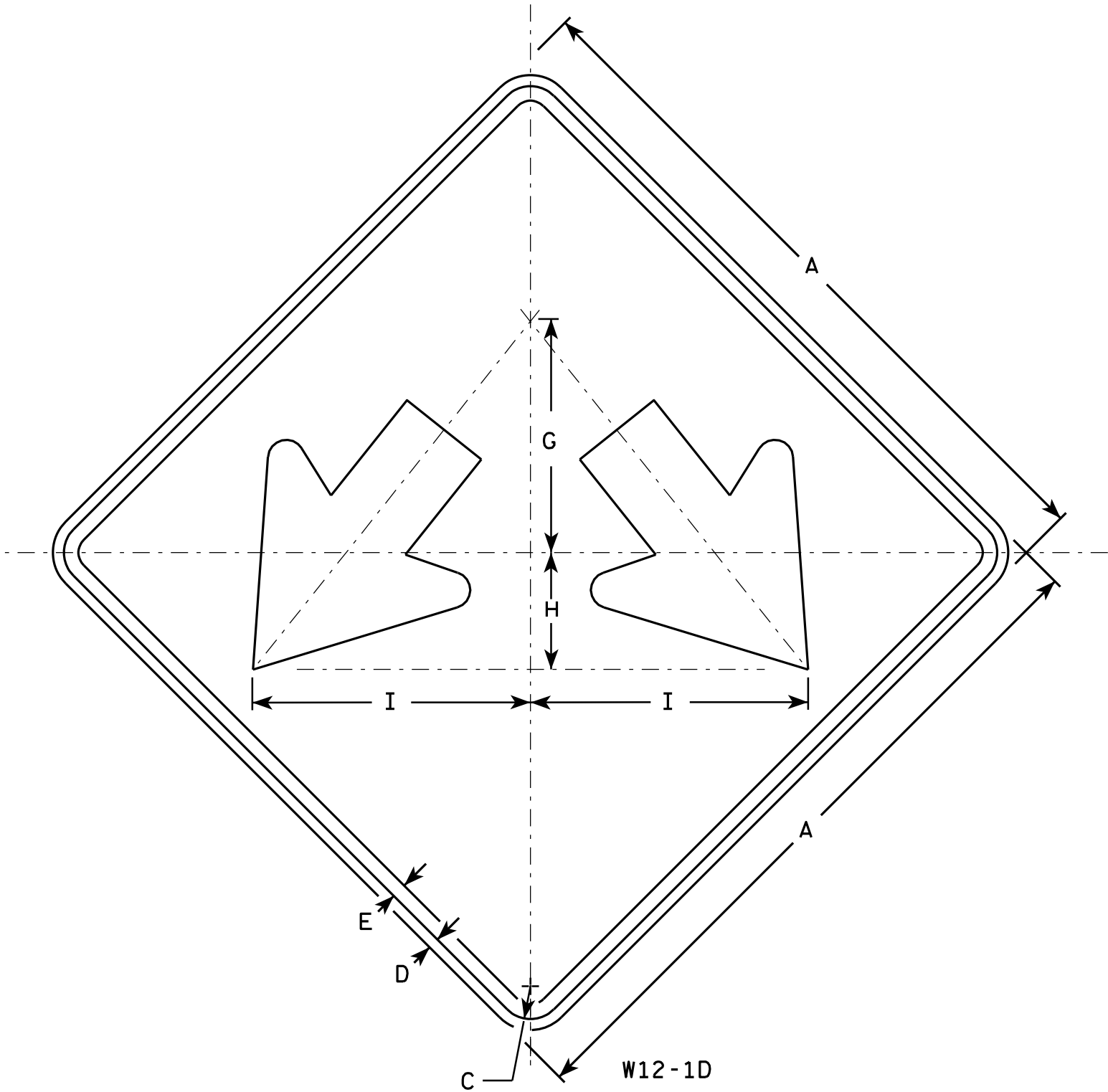
PROJECT NO:

HWY:

COUNTY:

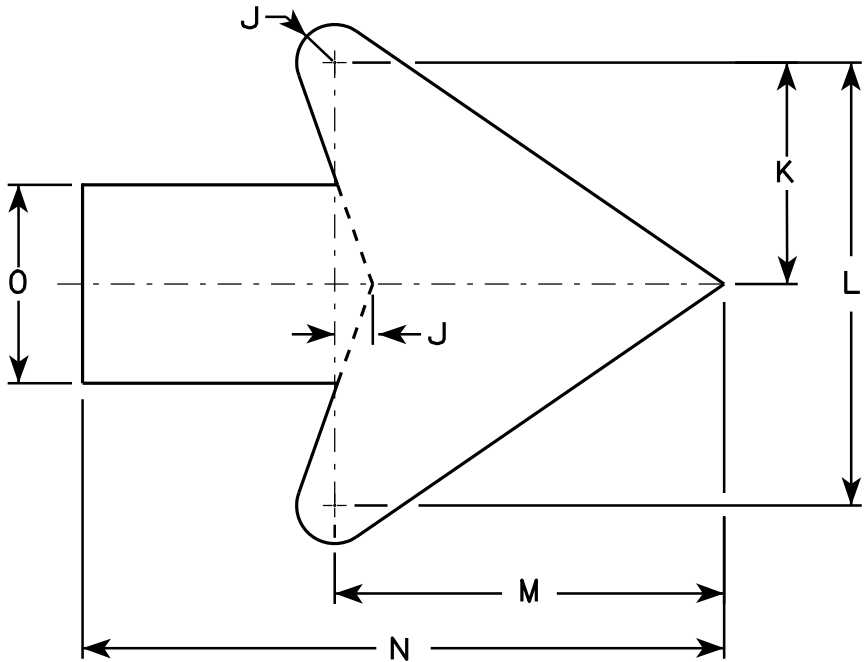
SHEET NO:

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 - 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.



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		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2M	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
3	30		1 3/8	1/2	5/8		10	5	11 7/8	3/4	4 1/2	9	7 7/8	13	4												6.25
4	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0
5	48		2 1/4	3/4	1		16	8	19	1 1/4	7 1/4	14 1/2	12 3/4	21	6 1/4												16.0

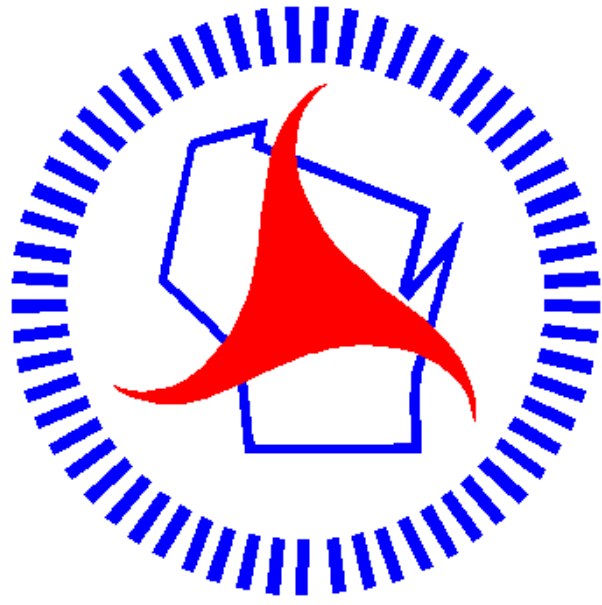
STANDARD SIGN
W12-1D

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W12-1D.15

Notes



Wisconsin Department of Transportation

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