

ORDER OF SHEETS-SEE GENERAL NOTES FOR 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 Plot
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 = 50

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

STATE HIGHWAY REHABILITATION-MAINTENANCE PROJECT

NC REGION POLYMER OVERLAY

EAU CLAIRE RVR & PLOVER RVR BRIDGES

BUS 51

MARATHON & PORTAGE COUNTIES

STATE PROJECT

1009-45-64

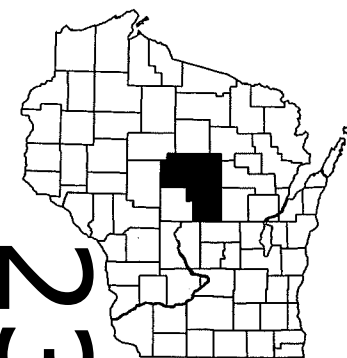
FEDERAL PROJECT

PROJECT

CONTRACT

STATE PROJECT NUMBER

1009-45-64

DESIGN DESIGNATION
MARATHON COUNTY

A.A.D.T. 2010	=	21200
A.A.D.T.	=	N/A
D.H.V.	=	N/A
D.D.	=	N/A
T.	=	N/A
DESIGN SPEED	=	N/A
ESALS	=	N/A

DESIGN DESIGNATION
PORTAGE COUNTY

A.A.D.T. 2008	=	14800
A.A.D.T.	=	N/A
D.H.V.	=	N/A
D.D.	=	N/A
T.	=	N/A
DESIGN SPEED	=	N/A
ESALS	=	N/A

CONVENTIONAL SYMBOLS

PLAN

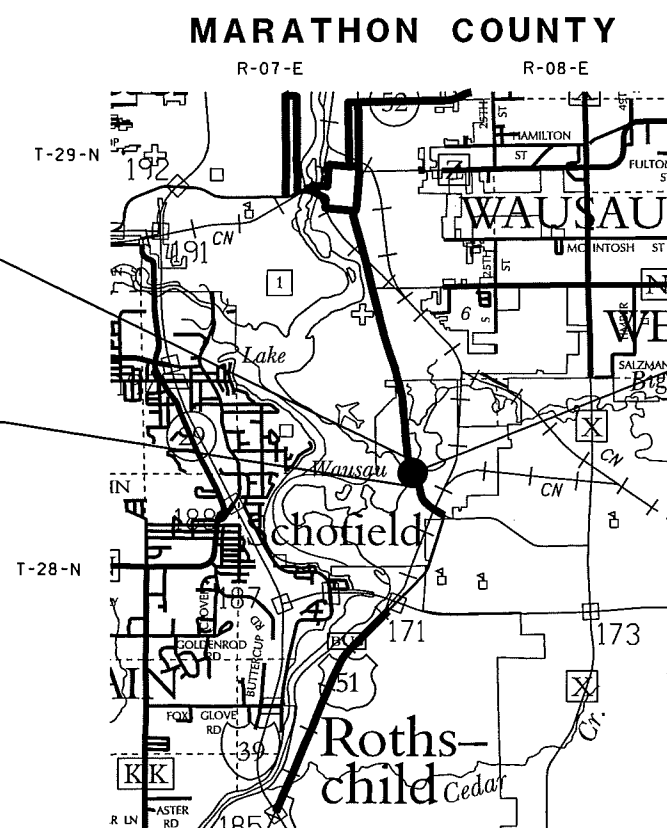
CORPORATE LIMITS	
PROPERTY LINE	
LOT LINE	
LIMITED HIGHWAY EASEMENT	
EXISTING RIGHT OF WAY	
PROPOSED OR NEW R/W LINE	
SLOPE INTERCEPT	
REFERENCE LINE	
EXISTING CULVERT	
PROPOSED CULVERT (Box or Pipe)	
COMBUSTIBLE FLUIDS	

MARSH AREA

WOODED OR SHRUB AREA

PROFILE

GRADE LINE	
ORIGINAL GROUND	
MARSH OR ROCK PROFILE (To be noted as such)	
SPECIAL DITCH	
GRADE ELEVATION	
CULVERT (Profile View)	
UTILITIES	
ELECTRIC	
FIBER OPTIC	
GAS	
SANITARY SEWER	
STORM SEWER	
TELEPHONE	
WATER	
UTILITY PEDESTAL	
POWER POLE	
TELEPHONE POLE	

END PROJECT
STA 38+12.50BEGIN PROJECT
STA 35+85.59

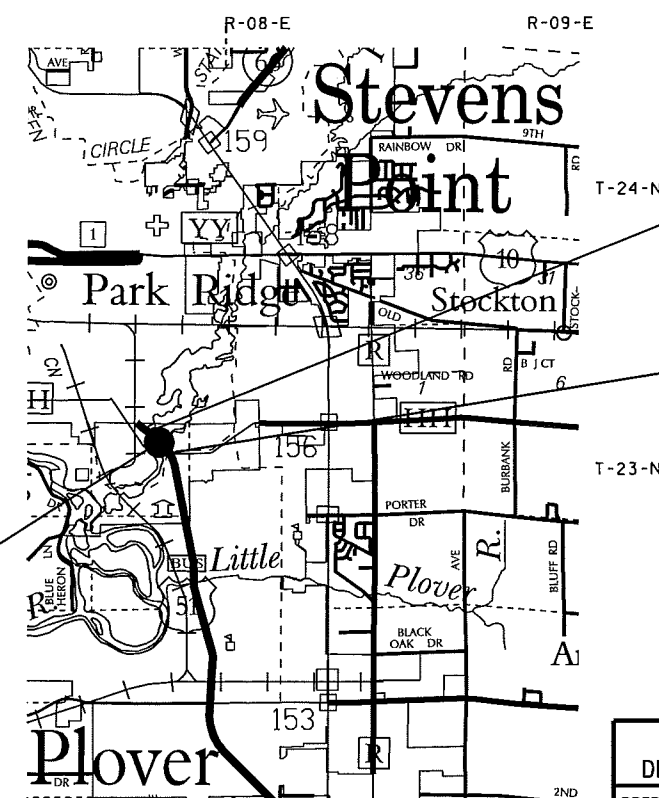
B-37-280

B-49-67

LAYOUT
SCALE 0 1 MI.

TOTAL NET LENGTH OF CENTERLINE = 0.0000 MI.

PORTAGE COUNTY

END PROJECT
STA 433+14.83BEGIN PROJECT
STA 431+47.17STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	NCR
Designer	ALEIGHA AHLSTROM
Project Manager	WENDY ARNESON
Regional Examiner	CHERYL SIMON
Regional Supervisor	SHANNON RILEY
C.O. Examiner	

APPROVED FOR THE DEPARTMENT

DATE: 5/14/13
(Signature)

E

GENERAL NOTES

CONSIDER DIMENSIONS GIVEN FOR EXISTING FEATURES AS APPROXIMATE AND MEASURE FEATURES IN THE FIELD FOR MATCHING PURPOSES.

THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THE PLAN ARE APPROXIMATE. THERE MAY BE OTHER UTILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

ORDER OF SHEETS

SHEETS ORDERED BY BRIDGE LOCATION.
STRUCTURE PLANS LOCATED THROUGHOUT
PLAN SET.

Section No.	1	Title
Section No.	2	Typical Sections and Details
Structure B-37-280		
Section No.	2	Typical Sections and Details
Section No.	8	Structure Plans
Structure B-49-67		
Section No.	2	Typical Sections and Details
Section No.	8	Structure Plans
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	6	Standard Detail Drawings

ENVIRONMENTAL CONTACTS

DEPARTMENT OF NATURAL RESOURCES
DNR LIASION MARATHON AND PORTGE COUNTIES
MARC HERSHFIELD
473 GRIFFITH DRIVE
WISCONSIN RAPIDS, WI 54494
PHONE: 715-421-7867
EMAIL: marc.hersfield@wisconsin.gov



Call 811 3 Work Days Before You Dig
Or Toll Free (800) 242-8511
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com

UTILITY CONTACTS

EAU CLAIRE RIVER BRIDGE (B-37-280)

FRONTIER COMMUNICATIONS OF WI LLC, COMMUNICATION
JOHN VANOOYEN - PRIMARY
2689 N CLERMONT STREET
ANTIGO, WI 54409
PHONE: 715-623-2147
MOBILE: 715-781-5921

WISCONSIN PUBLIC SERVICE CORPOATION, GAS/PERTOLEUM
MICHAEL A. BOSI
1700 SHERMAN AVENUE
WAUSAU, WI 54402
PHONE: 715-848-7471
MOBILE: 715-803-8009

CITY OF SCHOFIELD, WATER
KEVIN KING
200 PARK STREET
SCHOFIELD, WI 54476
MOBILE: 715-571-8436

FRONTIER COMMUNICATIONS OF WI LLC, COMMUNICATION
CALVIN KLADE - SECONDARY
1851 N 14TH AVENUE
WAUSAU, WI 54401
PHONE: 715-847-1525
MOBILE: 715-573-2110

WISDOT NCR, ELECTRIC
DOUG PILGRIM
2841 INDUSTRIAL STREET
WISCONSIN RAPIDS, WI 54495
MOBILE: 715-459-4784
EMAIL: Douglas.Pilgrim@dot.wi.gov

PLOVER RIVER BRIDGE (B-49-67)

WISCONSIN PUBLIC SERVICE CORPORATION, ELECTRIC
CLAY VIRCKS
P.O. BOX 1166
WAUSAU, WI 54402
PHONE: 715-848-7317
MOBILE: 715-573-7806

CITY OF STENEVS POINT, SEWER
SCOTT SCHARSCHNEIDER
1515 STRONGS AVENUE
STEVENS POINT, WI 54481
PHONE: 715-346-1561
MOBILE: 715-340-2540

AT&T WISCONSIN, COMMUNICATION
CHUCK BARTELT
70 E DIVISION STREET
FOND DU LAC, WI 54935
PHONE: 920-929-1013
MOBILE: 920-410-5104

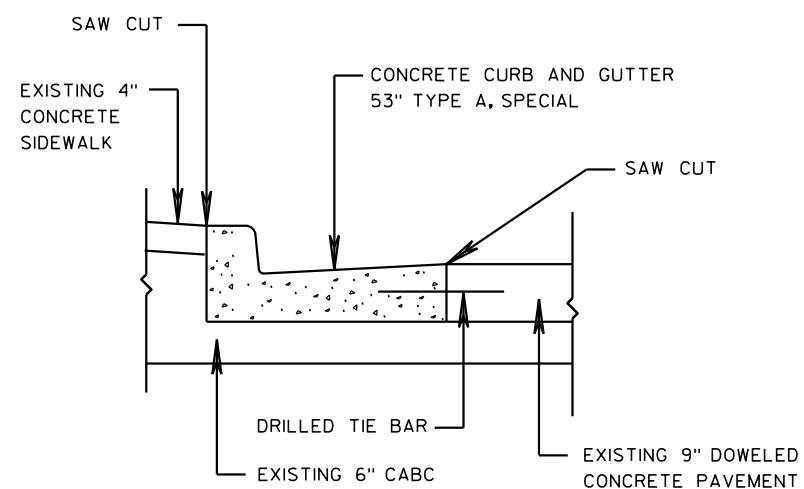
WISDOT NCR, ELECTRIC
KEN RADKE
2841 INDUSTRIAL STREET
WISCONSIN RAPIDS, WI 54495
MOBILE: 715-459-4264
EMAIL: Kenneth.Radke@dot.wi.gov



PROJECT NO:1009-45-64	HWY: BUS 51	COUNTY: MARATHON, PORTAGE	PROJECT OVERVIEW (B-37-280)	SHEET	E
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EAU CLAIRE RIVER BRIDGE
B-37-280; 192.9 FT

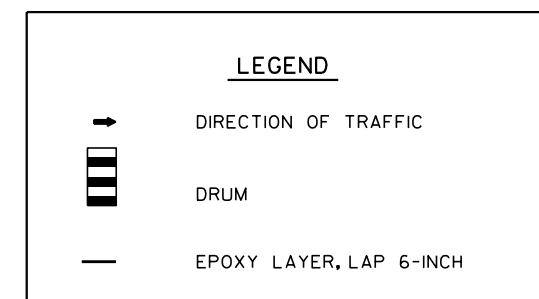
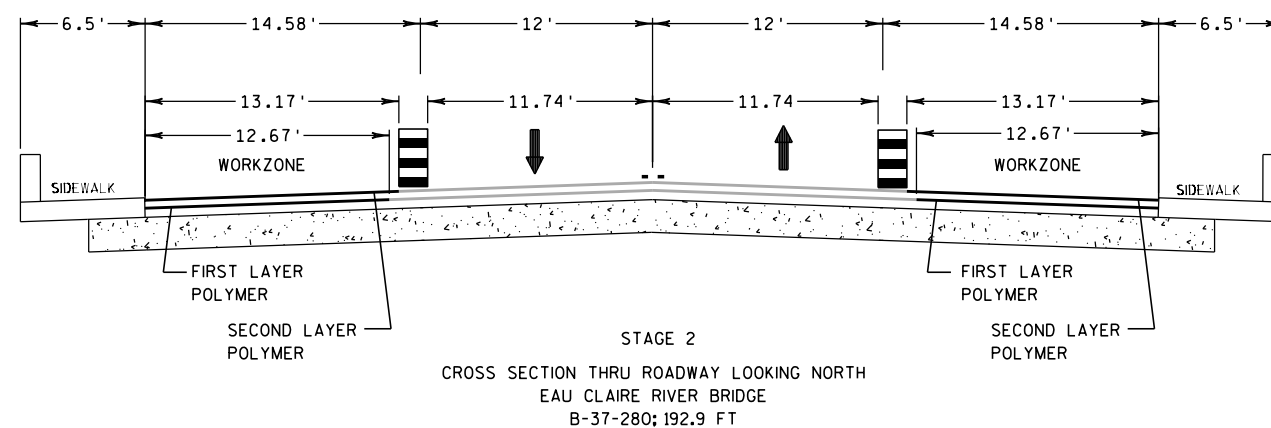
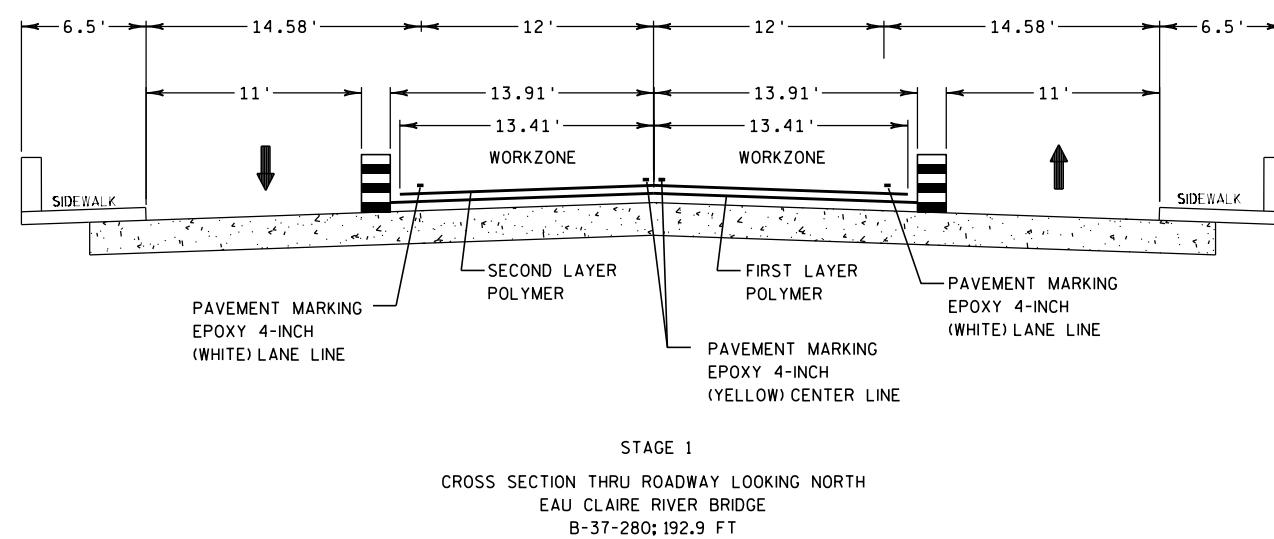


CONCRETE CURB AND GUTTER
53" TYPE A, SPECIAL

REMOVE AND REPLACE CONCRETE CURB
AND GUTTER 53" TYPE A, SPECIAL

NOTE: SEE SDD CONCRETE CURB, CONCRETE CURB
AND GUTTER AND TIES FOR MORE DETAILS.





NOTE: PLACE PERMANENT PAVEMENT MARKING
PRIOR TO STAGE CHANGE

PORTABLE CHANGEABLE
MESSAGE BOARDS (PCMS)

SITE NO LOCATION	PRIOR TO CONSTRUCTION	
	PHASE 1 (3 SEC)	PHASE 2 (3 SEC)
SITE 1 60FT SOUTH OF S END OF SLAB, R	BRIDGE WORK BEGINS	MONTH XX EXPECT DELAYS
SITE 2 50 FT NORTH OF N END OF SLAB, L	BRIDGE WORK BEGINS	MONTH XX EXPECT DELAYS
SITE 3 170 FT SOUTH ON S GRAND AVE	ROAD CLOSES	MONTH XX USE ALT ROUTE
SITE 4 170 FT EAST ON DROTT ST	ROAD CLOSES	MONTH XX USE ALT ROUTE

GENERAL NOTES

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

ALL PERMANENT SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE SHALL BE COVERED.

CHANNELIZING DEVICES SHALL HAVE A MAXIMUM SPACING OF 25 FEET IN THE BUFFER AND WORK AREA AND A MAXIMUM SPACING OF 10 FEET IN THE TAPERS.

NOTE: SEE SDD'S, TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY AND TRAFFIC CONTROL, SIDEWALK CLOSURE AND MARKING AND SIGNING, BARRICADES AND SIGNS FOR MAINLINE CLOSURES, MARKING AND SIGNING BARRICADES AND SIGNS FOR SIDEROAD CLOSURES FOR MORE DETAILS.



PORTABLE CHANGEABLE MESSAGE BOARDS (PCMS)

PRIOR TO CONSTRUCTION		
SITE NO LOCATION	PHASE 1 (3 SEC)	PHASE 2 (3 SEC)
SITE 1 60FT SOUTH OF S END OF SLAB, R	BRIDGE WORK BEGINS	MONTH XX EXPECT DELAYS
SITE 2 50 FT NORTH OF N END OF SLAB, L	BRIDGE WORK BEGINS	MONTH XX EXPECT DELAYS
SITE 3 170 FT SOUTH ON S GRAND AVE	ROAD CLOSES	MONTH XX USE ALT ROUTE
SITE 4 170 FT EAST ON DROTT ST	ROAD CLOSES	MONTH XX USE ALT ROUTE

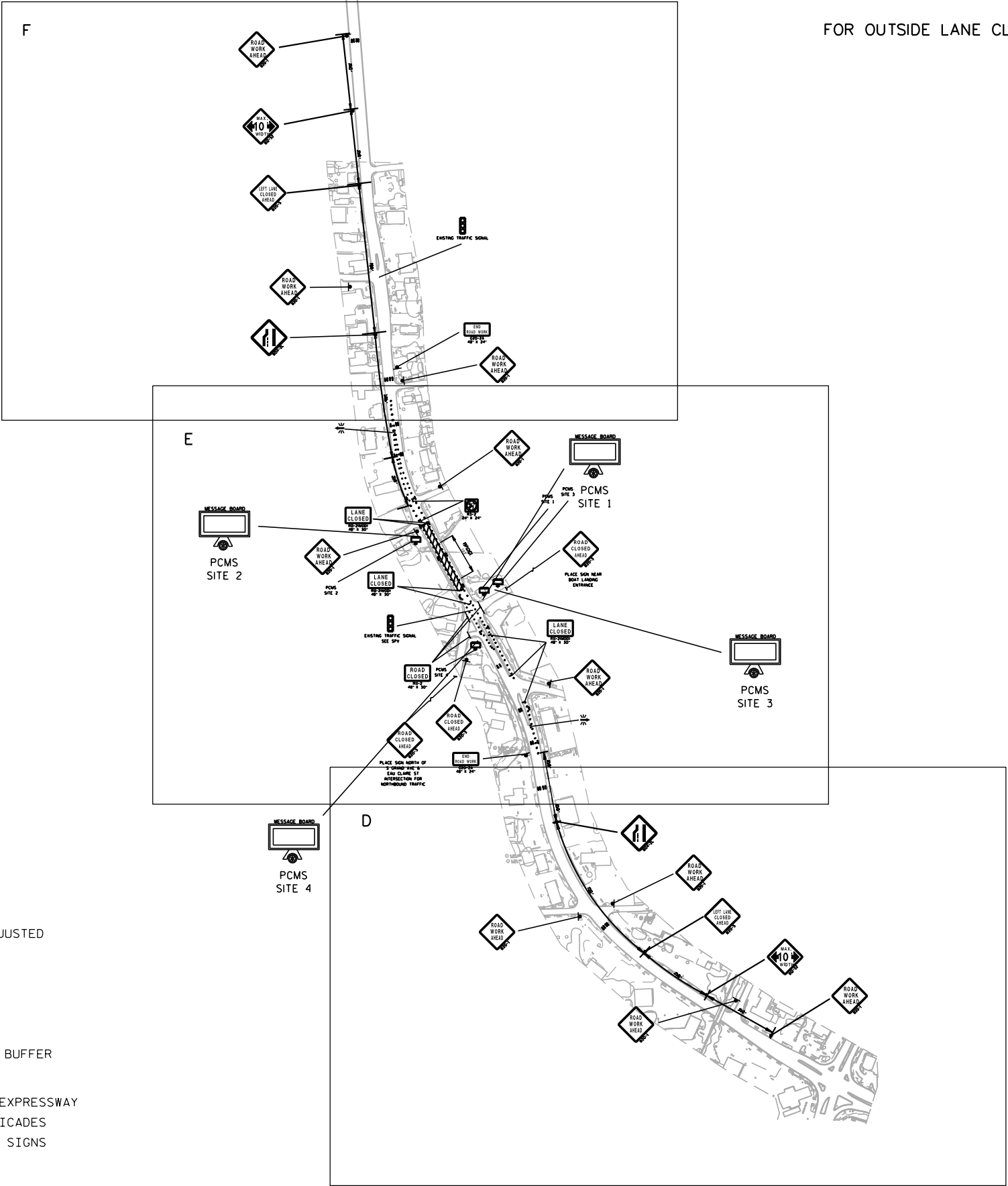
GENERAL NOTES

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

ALL PERMANENT SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE SHALL BE COVERED.

CHANNELIZING DEVICES SHALL HAVE A MAXIMUM SPACING OF 25 FEET IN THE BUFFER AND WORK AREA AND A MAXIMUM SPACING OF 10 FEET IN THE TAPERS.

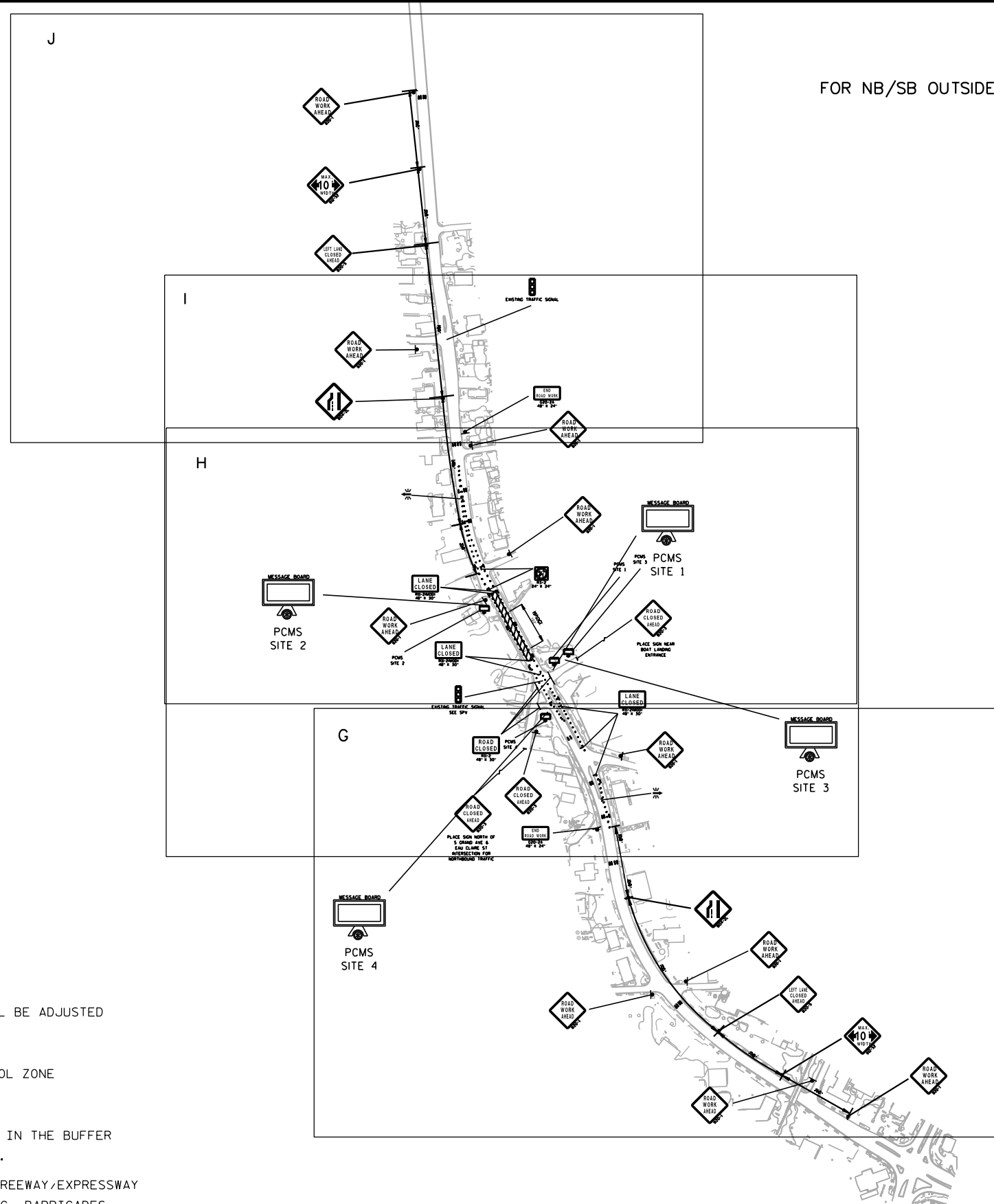
NOTE: SEE SDD'S, TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY AND TRAFFIC CONTROL, SIDEWALK CLOSURE AND MARKING AND SIGNING, BARRICADES AND SIGNS FOR MAINLINE CLOSURES, MARKING AND SIGNING BARRICADES AND SIGNS FOR SIDEROAD CLOSURES FOR MORE DETAILS.



FOR OUTSIDE LANE CLOSURE REFERENCE SHEETS: D,E,F

	PRIOR TO CONSTRUCTION	
SITE NO LOCATION	PHASE 1 (3 SEC)	PHASE 2 (3 SEC)
SITE 1 60FT SOUTH OF S END OF SLAB, R	BRIDGE WORK BEGINS	MONTH XX EXPECT DELAYS
SITE 2 50 FT NORTH OF N END OF SLAB, L	BRIDGE WORK BEGINS	MONTH XX EXPECT DELAYS
SITE 3 170 FT SOUTH ON S GRAND AVE	ROAD CLOSES	MONTH XX USE ALT ROUTE
SITE 4 170 FT EAST ON DROTT ST	ROAD CLOSES	MONTH XX USE ALT ROUTE

FOR NB/SB OUTSIDE SINGLE LANE CLOSURE REFERENCE SHEETS: G,H,I,J



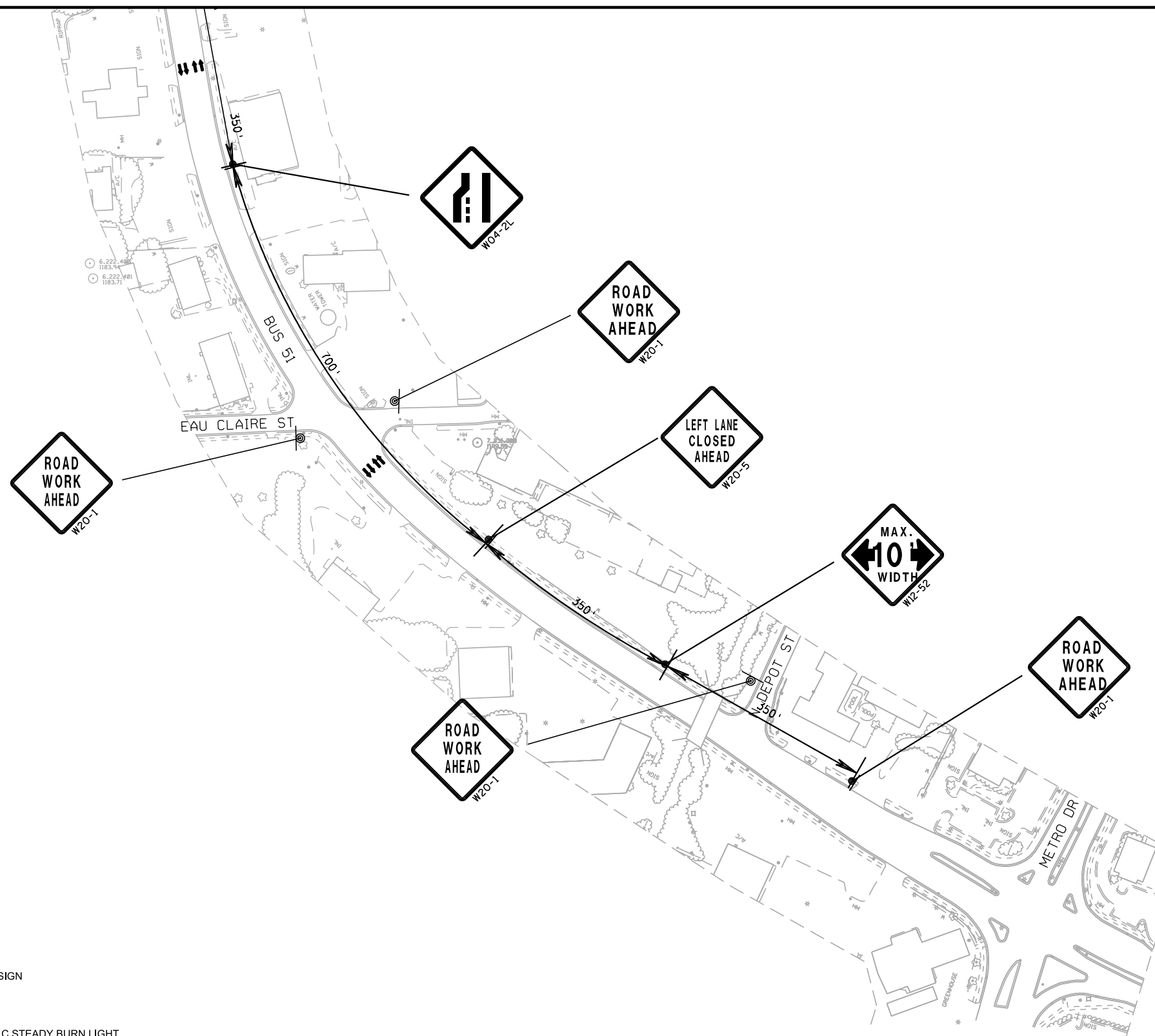
GENERAL NOTES

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








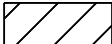
ALL PERMANENT SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE SHALL BE COVERED.

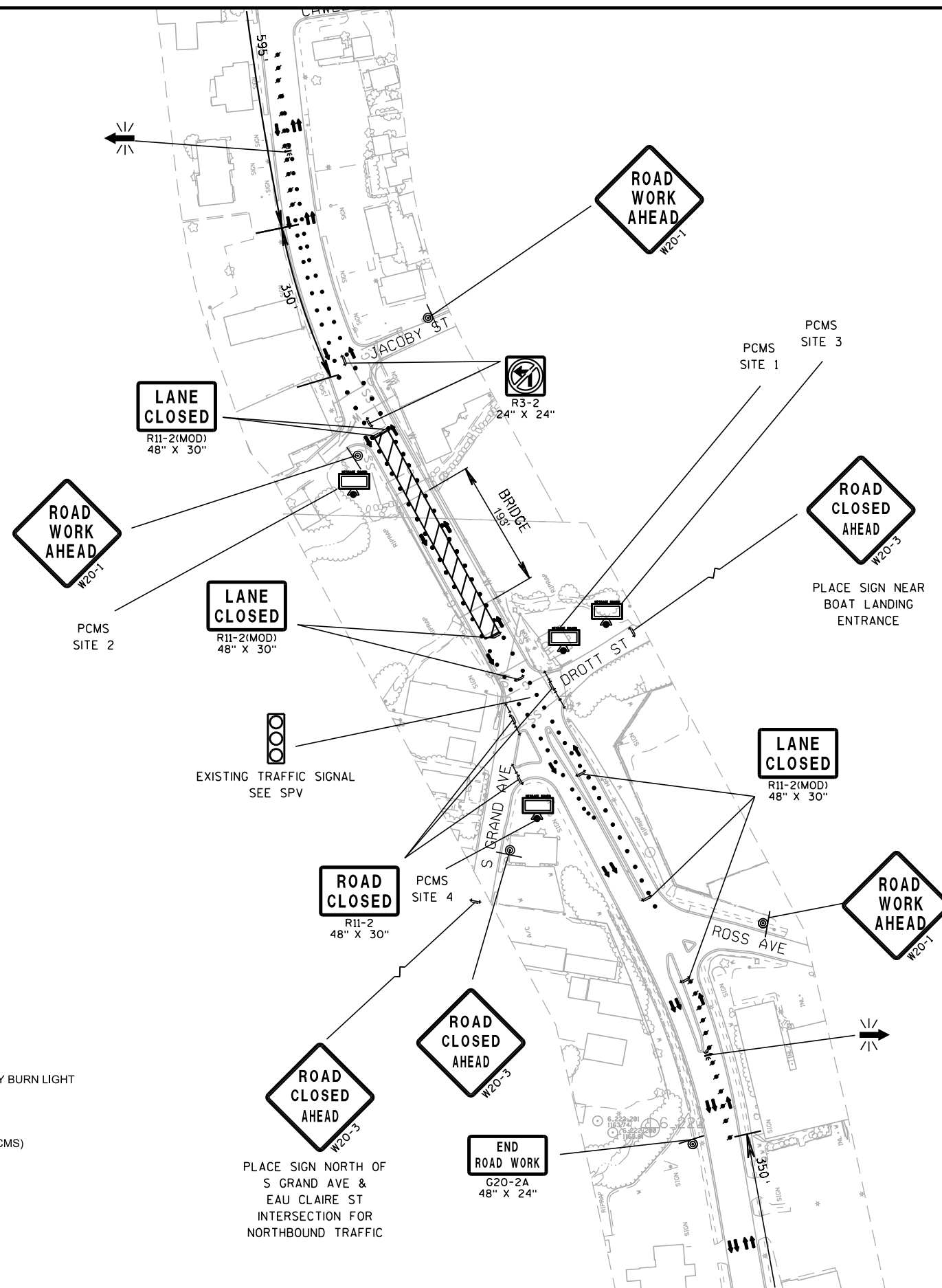
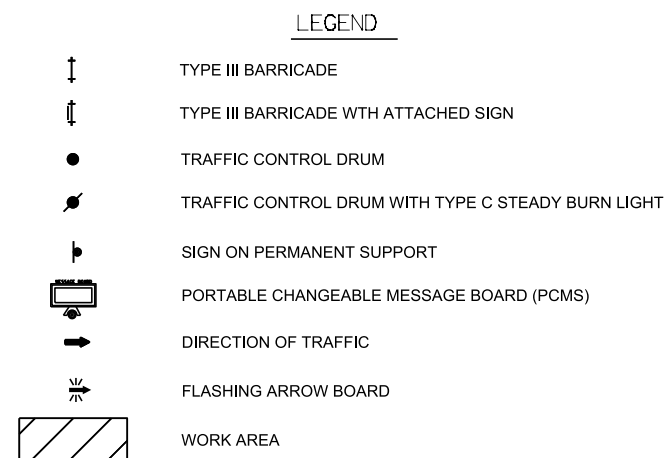
CHANNELIZING DEVICES SHALL HAVE A MAXIMUM SPACING OF 25 FEET IN THE BUFFER AND WORK AREA AND A MAXIMUM SPACING OF 10 FEET IN THE TAPERS.

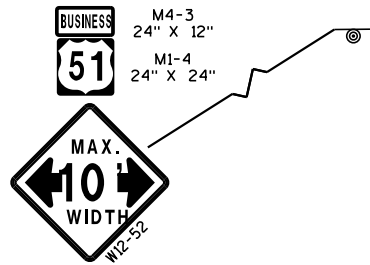
NOTE: SEE SDD'S, TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY AND TRAFFIC CONTROL, SIDEWALK CLOSURE AND MARKING AND SIGNING, BARRICADES AND SIGNS FOR MAINLINE CLOSURES, MARKING AND SIGNING BARRICADES AND SIGNS FOR SIDEROAD CLOSURES FOR MORE DETAILS.



LEGEND

-  TYPE III BARRICADE
-  TYPE III BARRICADE WTH ATTACHED SIGN
-  TRAFFIC CONTROL DRUM
-  TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
-  SIGN ON PERMANENT SUPPORT
-  DIRECTION OF TRAFFIC
-  FLASHING ARROW BOARD
-  WORK AREA

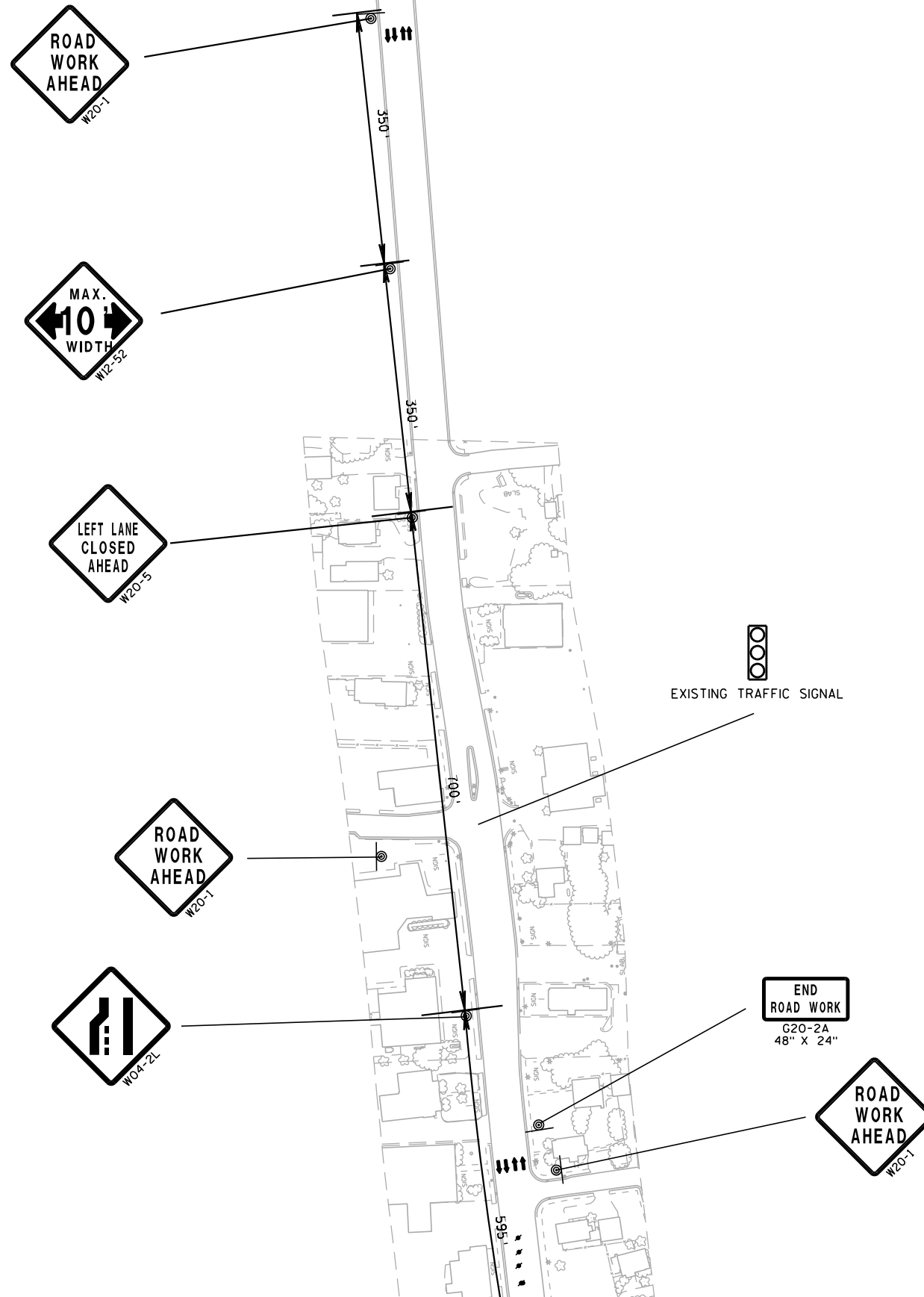




PLACE SIGN NORTH OF EAST THOMAS
STREET & GRAND AVENUE INTERSECTION
FOR SOUTHBOUND TRAFFIC,

LEGEND

	TYPE III BARRICADE
	TYPE III BARRICADE WTH ATTACHED SIGN
	TRAFFIC CONTROL DRUM
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
	SIGN ON PERMANENT SUPPORT
	DIRECTION OF TRAFFIC
	FLASHING ARROW BOARD
	WORK AREA





EAU CLAIRE ST

BUS 51



LEGEND



TYPE III BARRICADE



TYPE III BARRICADE WITH ATTACHED SIGN



TRAFFIC CONTROL DRUM



TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT



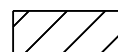
SIGN ON PERMANENT SUPPORT



DIRECTION OF TRAFFIC



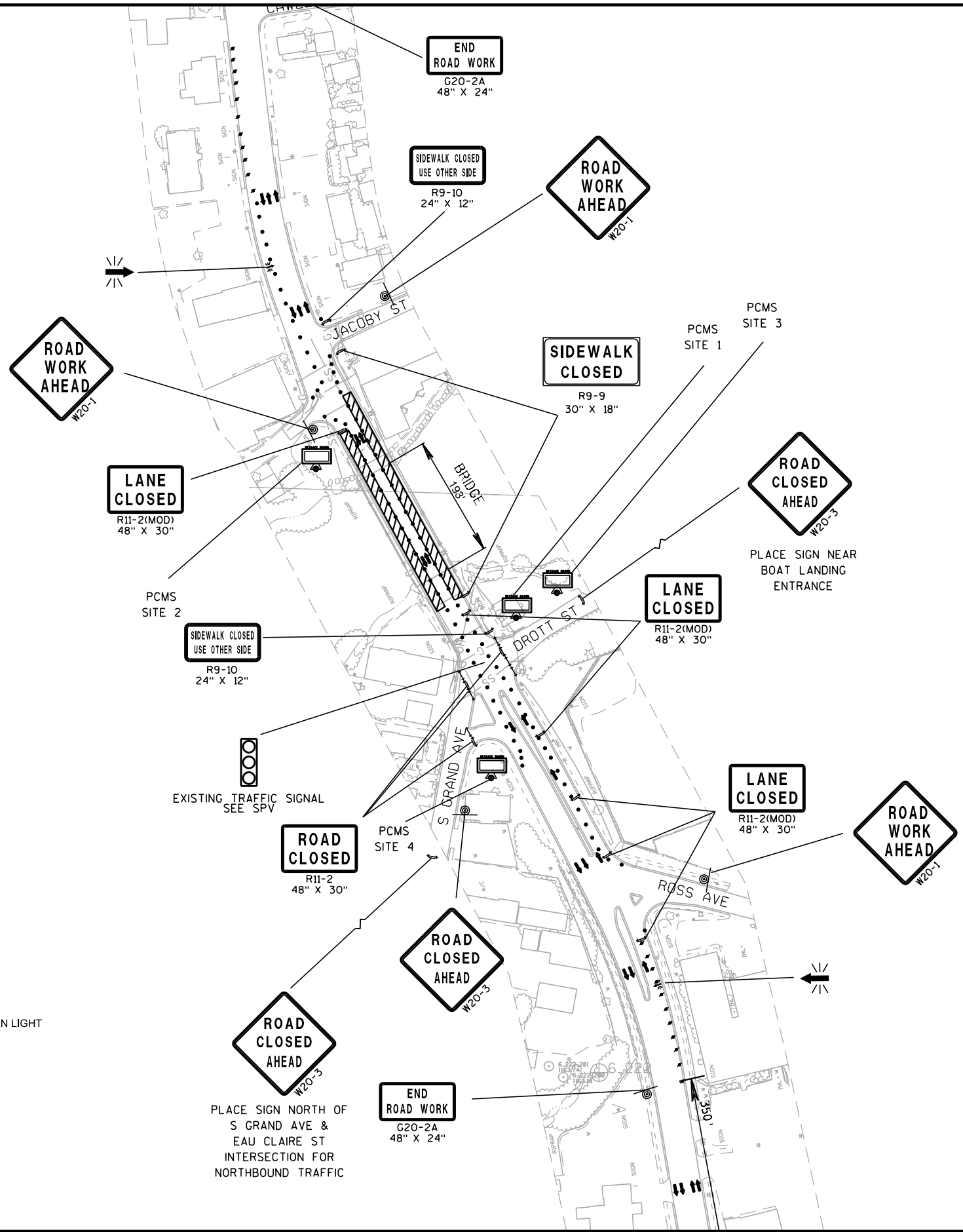
FLASHING ARROW BOARD

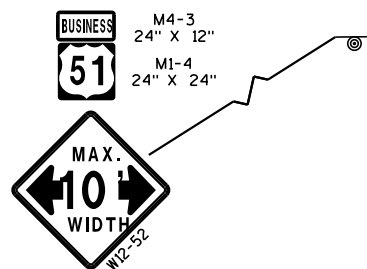


WORK AREA

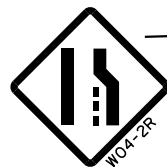
LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- PORTABLE CHANGEABLE MESSAGE BOARD (PCMS)
- DIRECTION OF TRAFFIC
- FLASHING ARROW BOARD
- WORK AREA



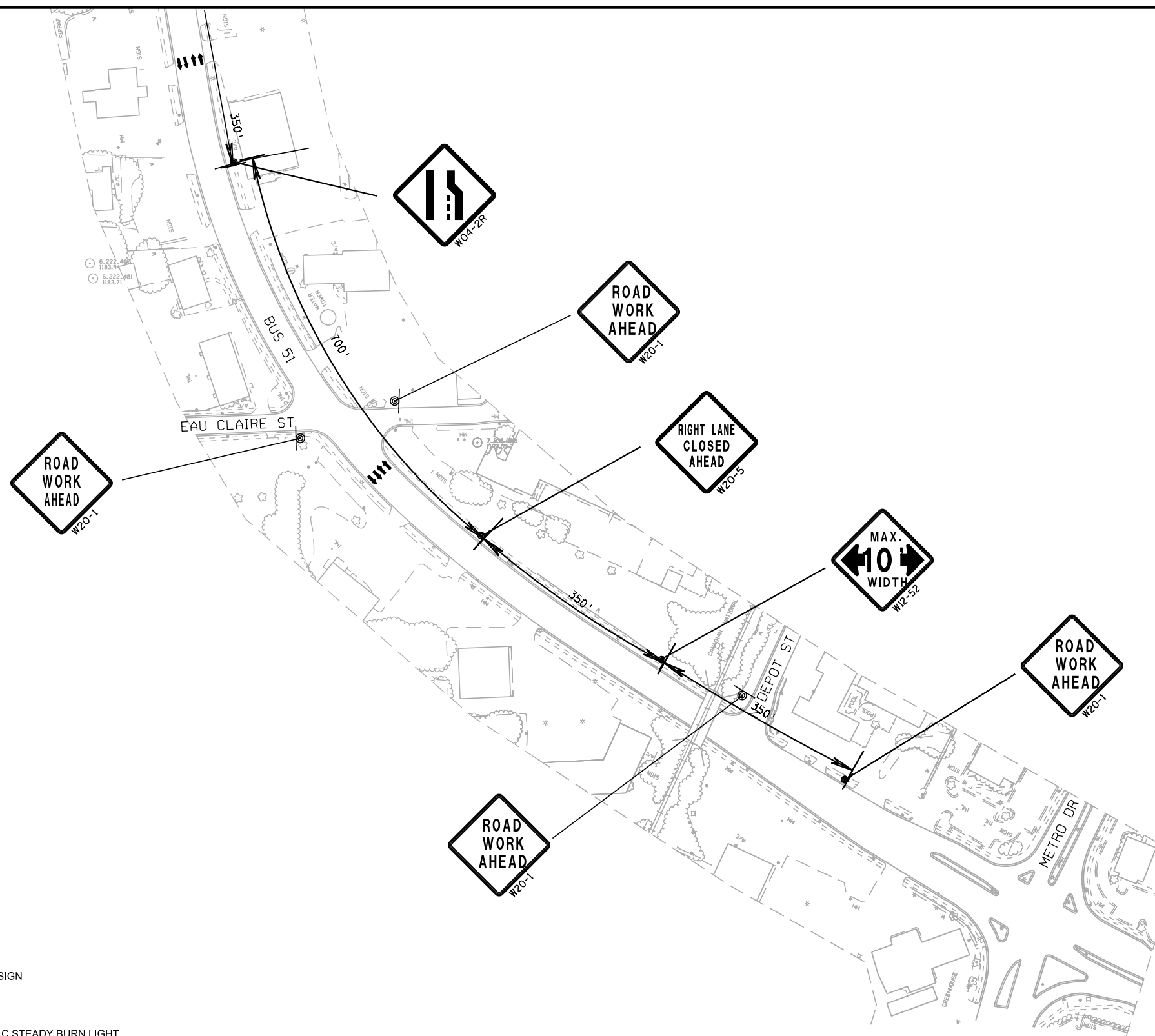


PLACE SIGN NORTH OF EAST THOMAS STREET & GRAND AVENUE INTERSECTION FOR SOUTHBOUND TRAFFIC,








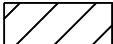


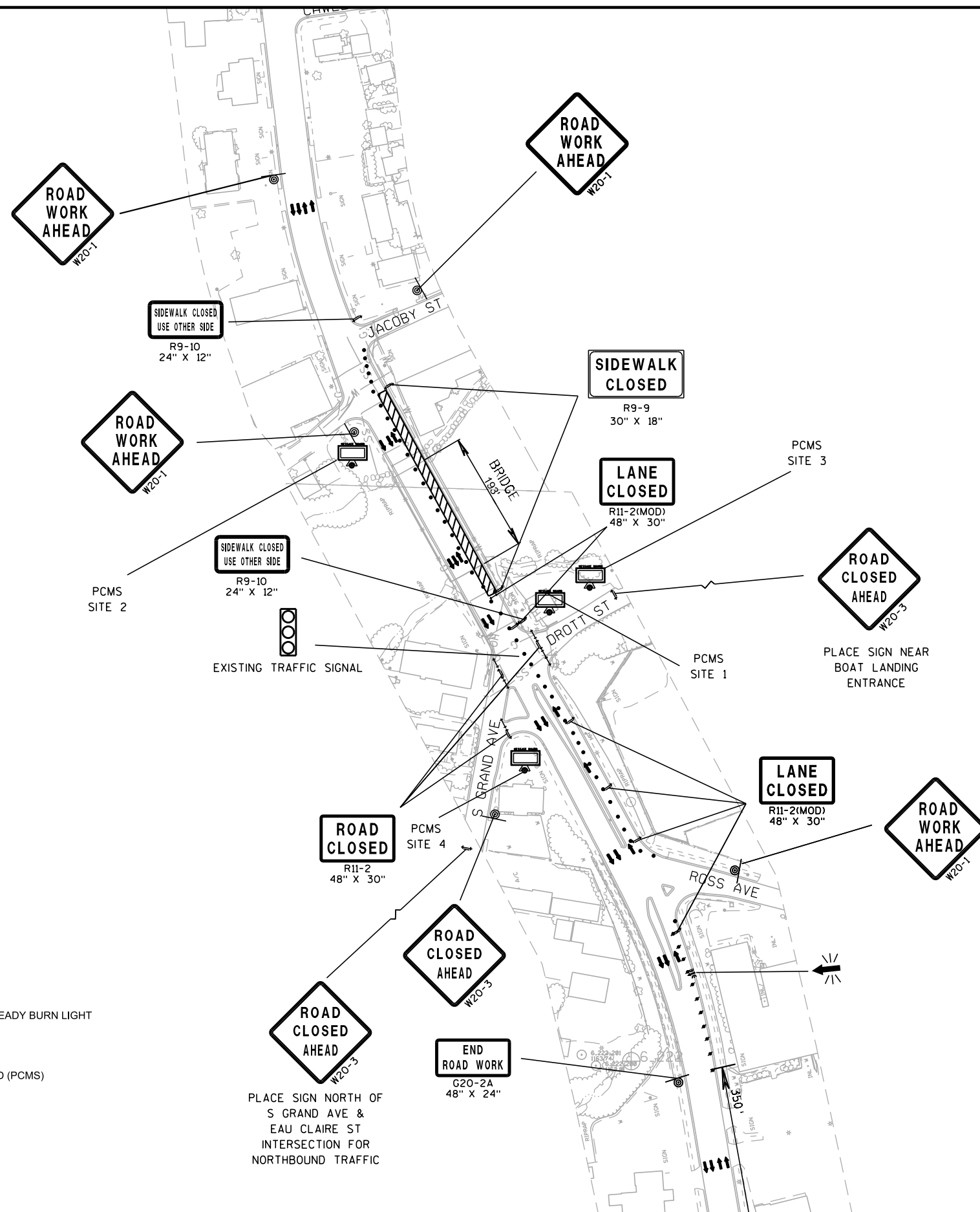
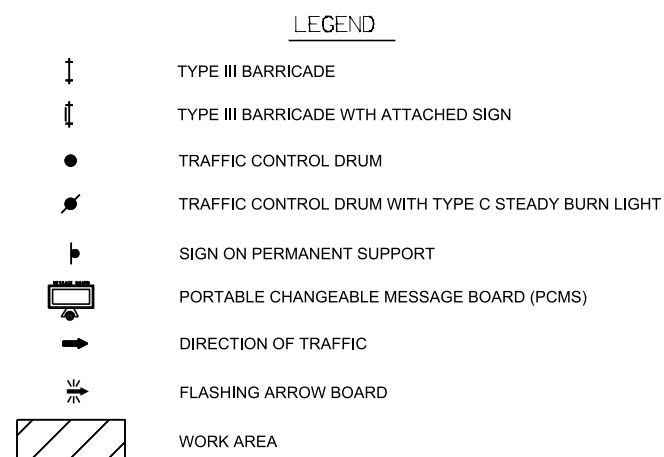
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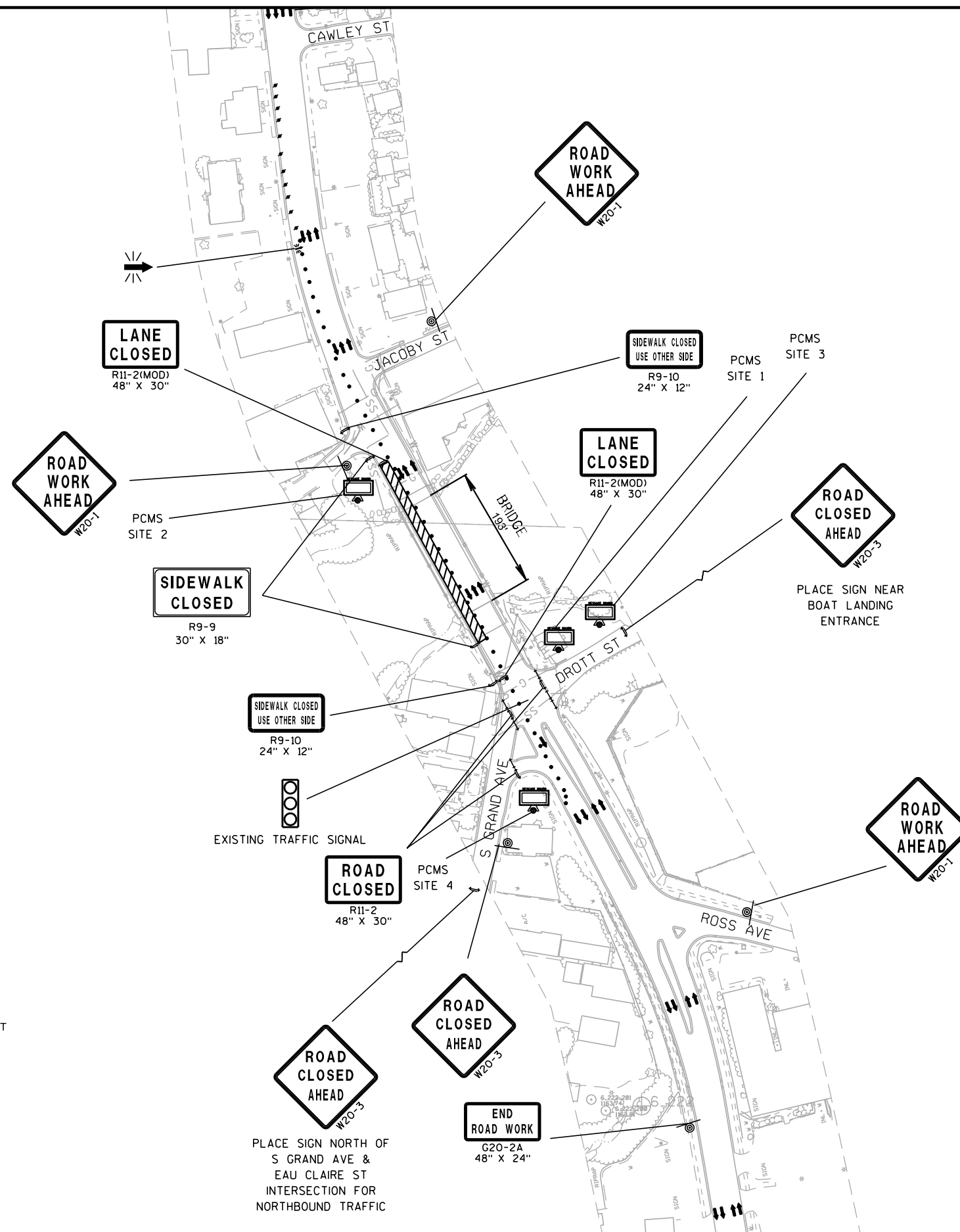
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- FLASHING ARROW BOARD
- WORK AREA












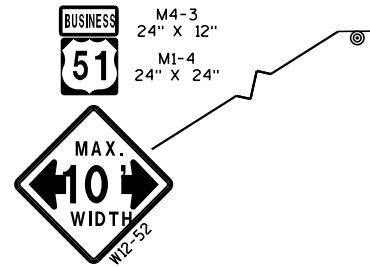
LEGEND

-  TYPE III BARRICADE
-  TYPE III BARRICADE WTH ATTACHED SIGN
-  TRAFFIC CONTROL DRUM
-  TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
-  SIGN ON PERMANENT SUPPORT
-  DIRECTION OF TRAFFIC
-  FLASHING ARROW BOARD
-  WORK AREA



**LEGEND**

-  TYPE III BARRICADE
-  TYPE III BARRICADE WITH ATTACHED SIGN
-  TRAFFIC CONTROL DRUM
-  TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
-  SIGN ON PERMANENT SUPPORT
-  PORTABLE CHANGEABLE MESSAGE BOARD (PCMS)
-  DIRECTION OF TRAFFIC
-  FLASHING ARROW BOARD
-  WORK AREA











PLACE SIGN NORTH OF EAST THOMAS STREET & GRAND AVENUE INTERSECTION FOR SOUTHBOUND TRAFFIC,



EXISTING TRAFFIC SIGNAL

END
ROAD WORK
G20-2A
48" X 24"

LEGEND

-  TYPE III BARRICADE
-  TYPE III BARRICADE WITH ATTACHED SIGN
-  TRAFFIC CONTROL DRUM
-  TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
-  SIGN ON PERMANENT SUPPORT
-  DIRECTION OF TRAFFIC
-  FLASHING ARROW BOARD
-  WORK AREA



PROJECT NO:1009-45-64

HWY: BUS 51

COUNTY: MARATHON, PORTAGE

PROJECT OVERVIEW (B-49-67)

SHEET

E

FILE NAME : P:\projects\ND4_10094534ED\020202_po.dgn

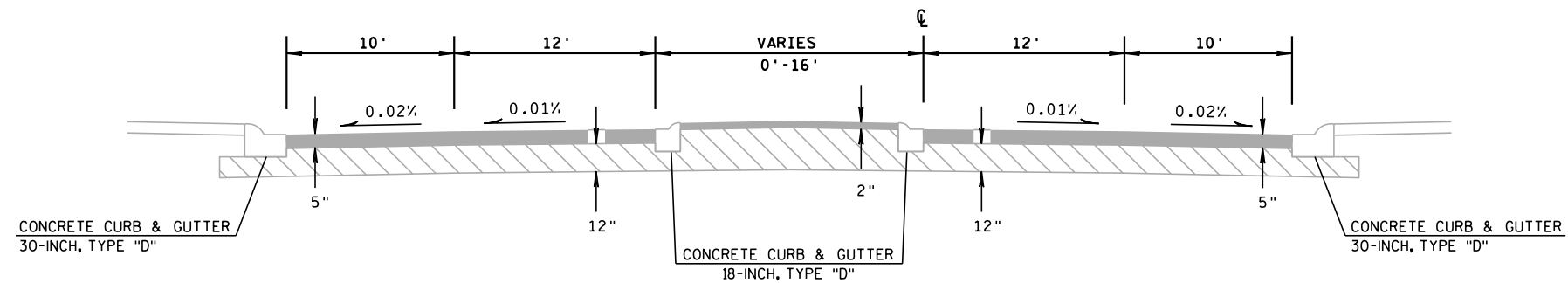
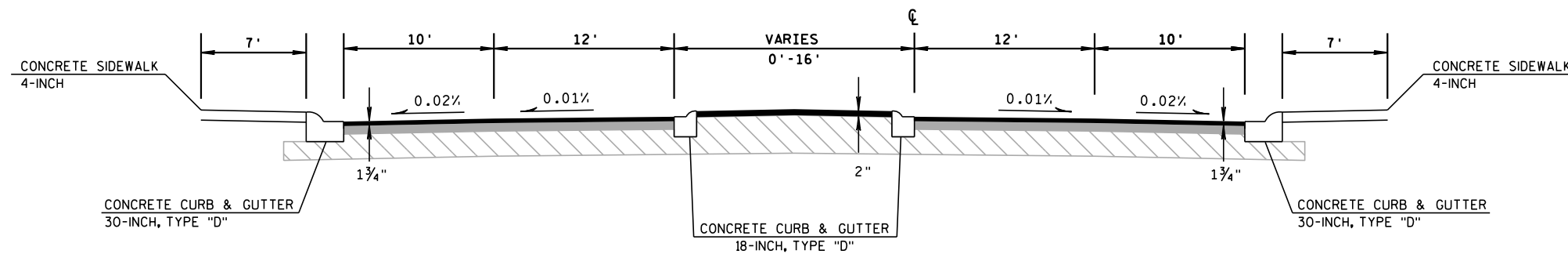
PLOT DATE : 31-JAN-2013 08:23

PLOT BY : dottre

PLOT NAME :

PLOT SCALE : 500:1

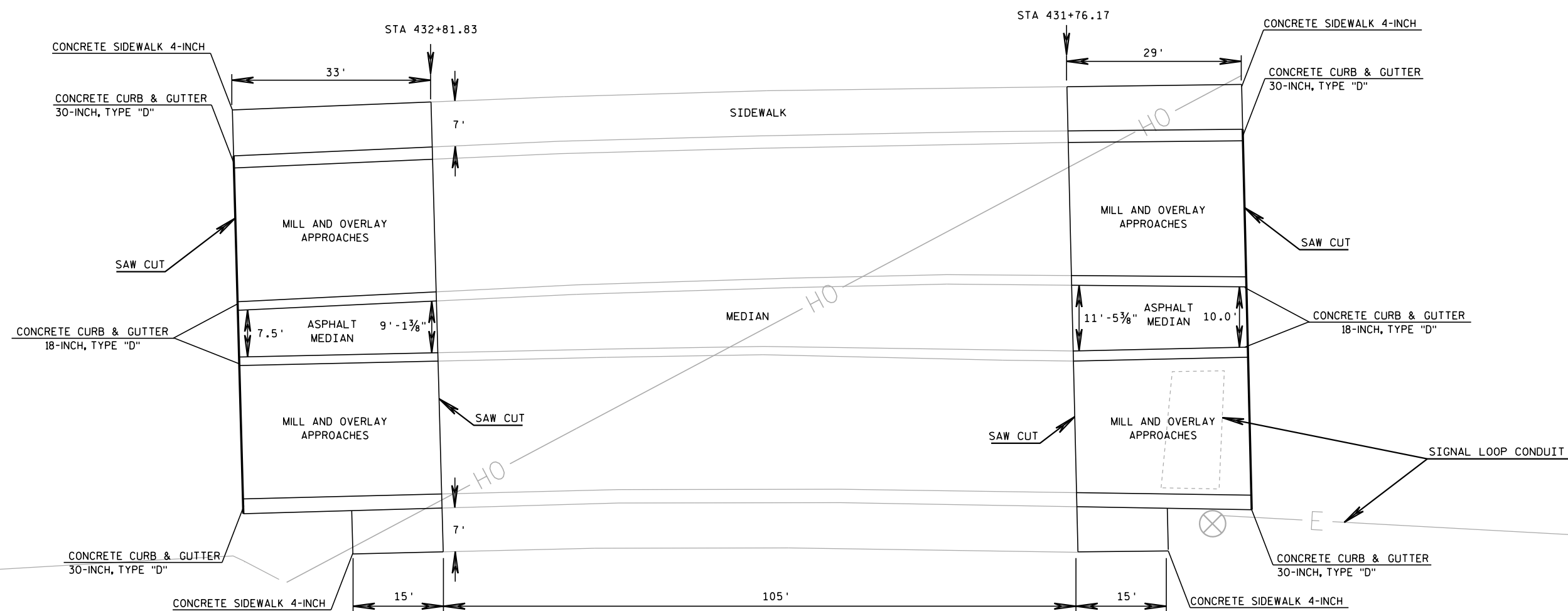
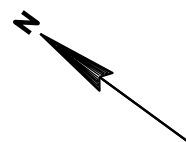
WISDOT/CADDs SHEET 42

**EXISTING TYPICAL SECTION****BUSINESS 51****STA 431+47.17-STA 431+76.17****STA 432+81.83-STA 433+14.83****PROPOSED TYPICAL SECTION****BUSINESS 51****STA 431+47.17-STA 431+76.17****STA 432+81.83-STA 433+14.83****NOTE: MILL AND OVERLAY 1 3/4" ROADWAY
AND REPLACE 2" OF ASPHALT IN MEDIAN****LEGEND****EXISTING**

- ASPHALTIC PAVEMENT
- ▨ CRUSHED AGGREGATE BASE COURSE

PROPOSED

- ASPHALTIC SURFACE



PLOVER RIVER BRIDGE
B-49-67; 105 FT



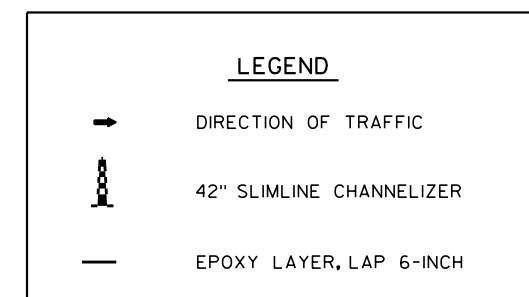
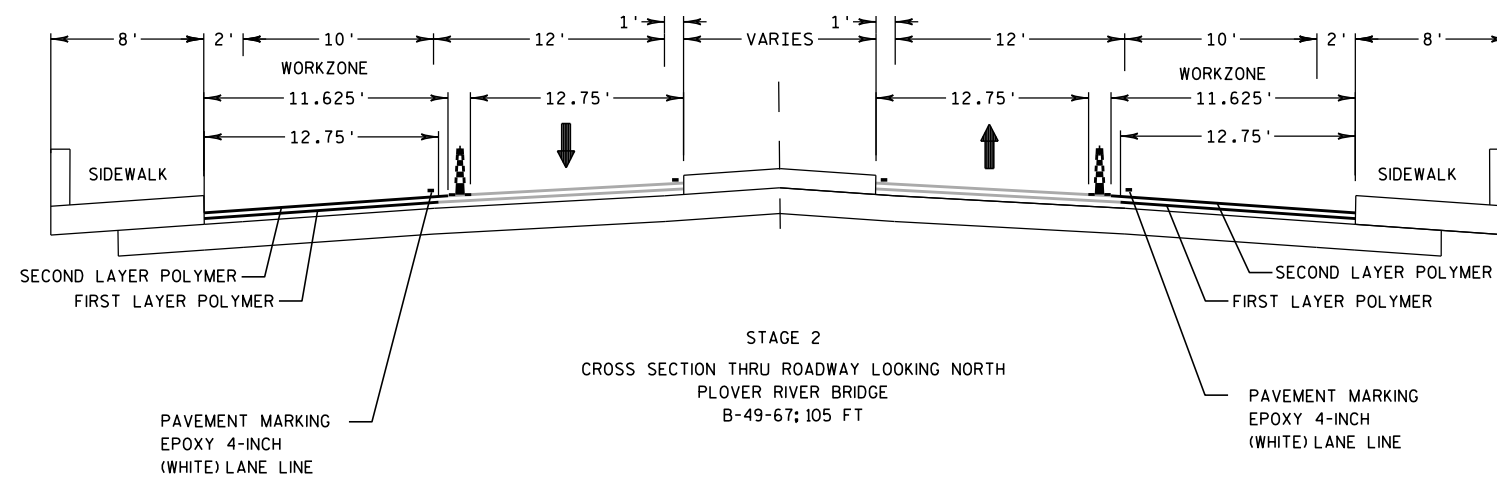
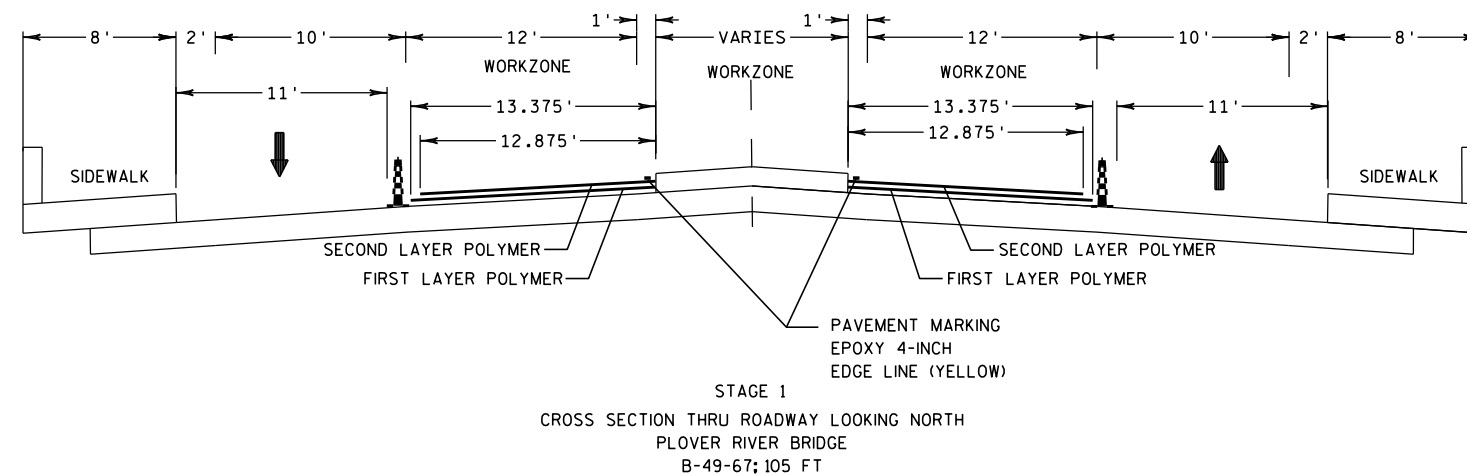
BUSINESS 51

END PROJECT
END PAVEMENT MARKING
STA 433+14.83

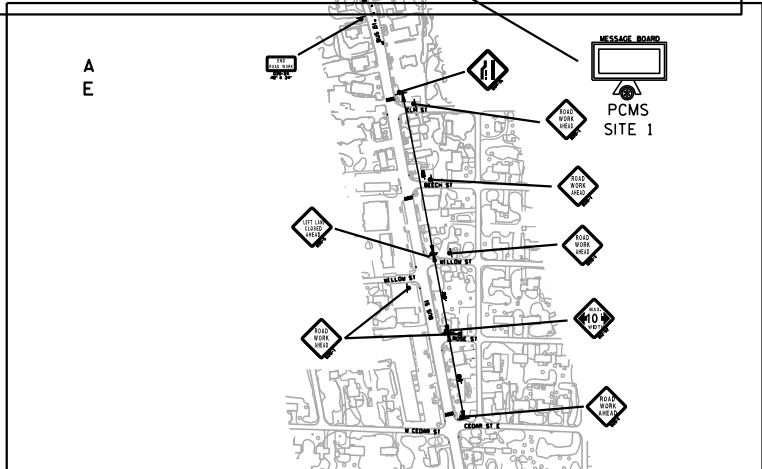
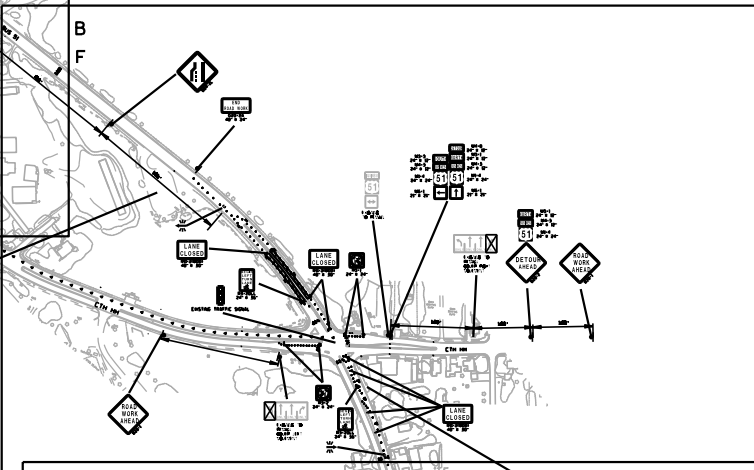
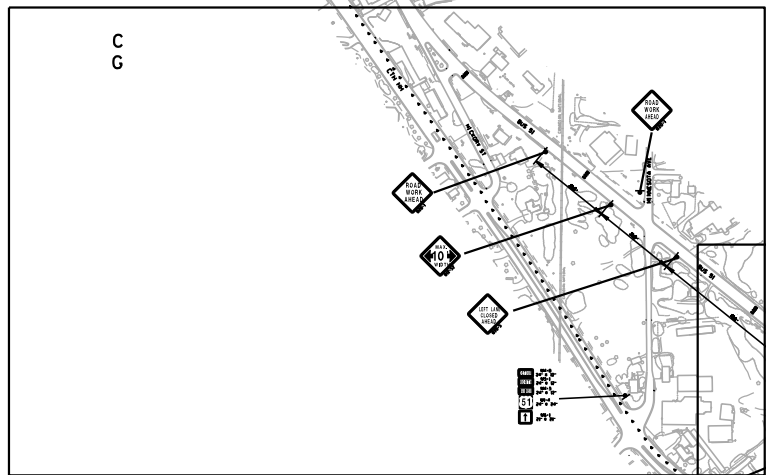
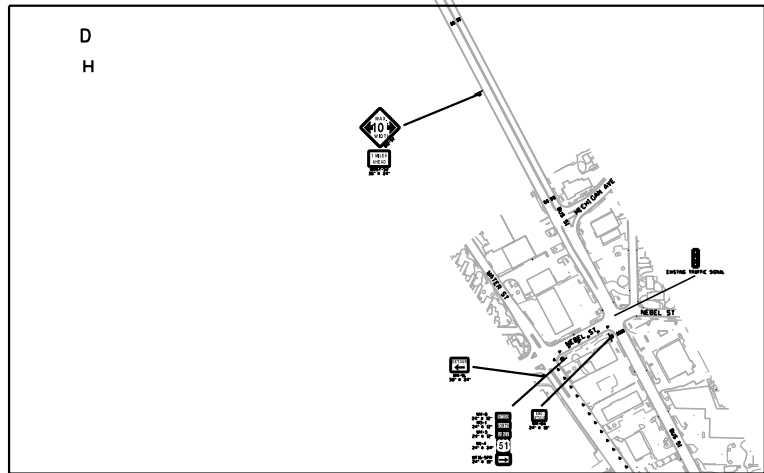
PAVEMENT MARKING EPOXY
4-INCH (WHITE) LANE LINE

BEGIN PROJECT
BEGIN PAVEMENT MARKING
STA 431+47.17

PAVEMENT MARKING EPOXY
4-INCH (YELLOW) EDGE LINE



NOTE: PLACE PERMANENT PAVEMENT MARKING
PRIOR TO STAGE CHANGE



FOR INSIDE LANE CLOSURE REFERENCE SHEETS: A,B,C,D

FOR OUTSIDE LANE CLOSURE REFERENCE SHEETS: E,F,G,H

GENERAL NOTES

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

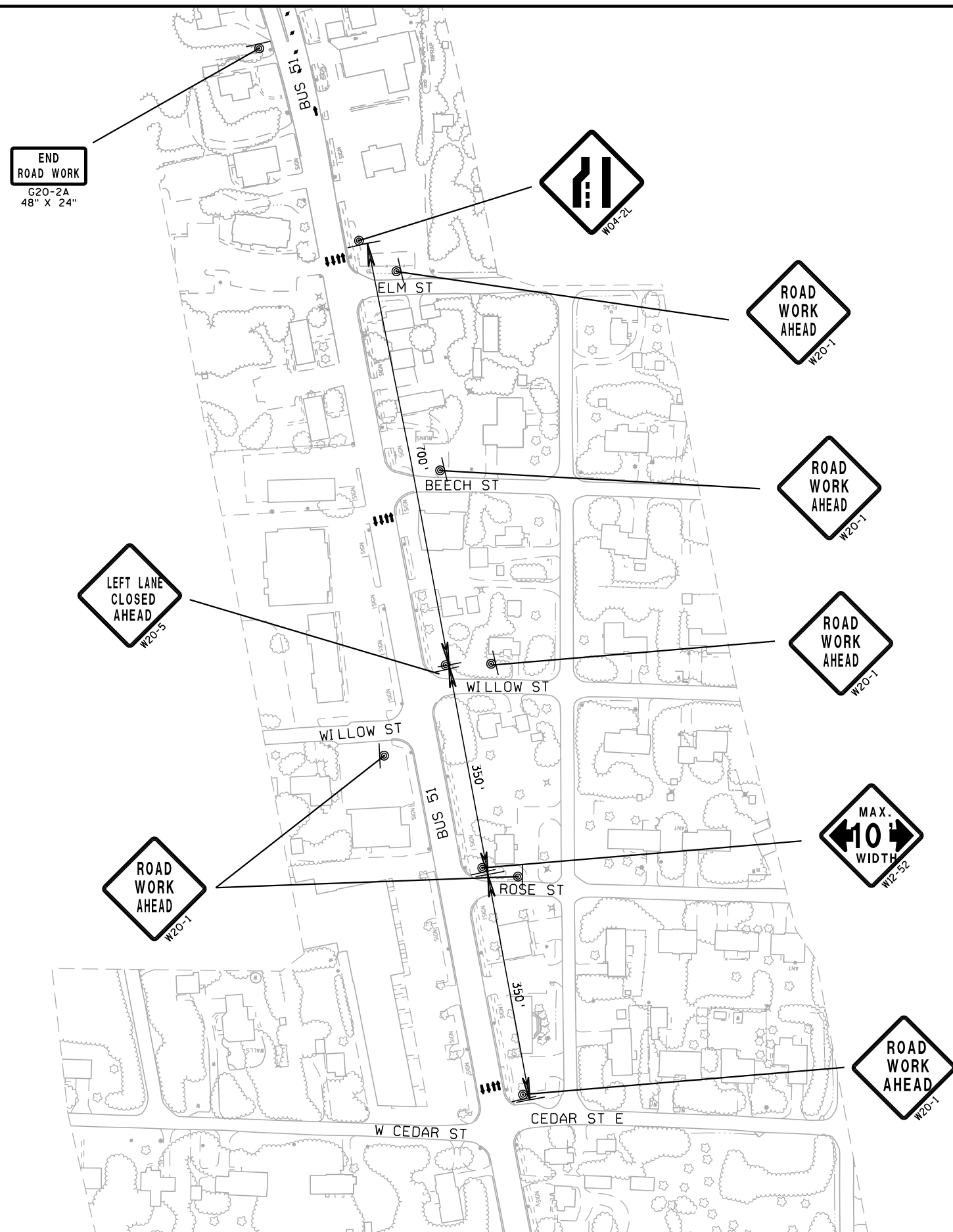
ALL PERMANENT SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE SHALL BE COVERED.

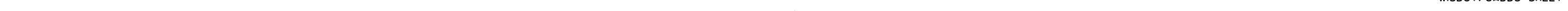
CHANNELIZING DEVICES SHALL HAVE A MAXIMUM SPACING OF 25 FEET IN THE BUFFER AND WORK AREA AND A MAXIMUM SPACING OF 10 FEET IN THE TAPERS.








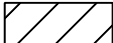
NOTE: SEE SDD'S TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY AND TRAFFIC CONTROL, SIDEWALK CLOSURE FOR MORE DETAILS.

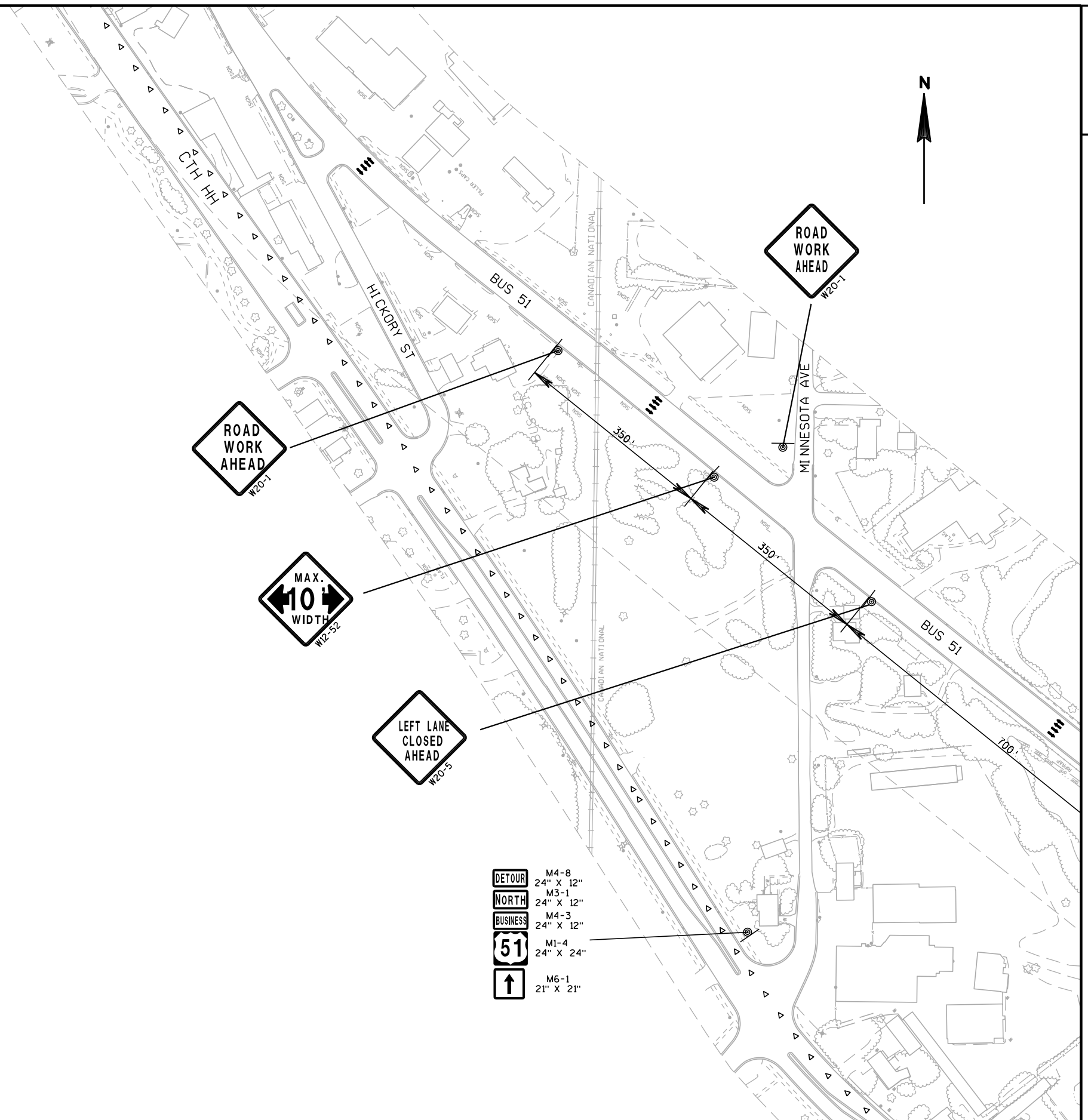
PORTABLE CHANGEABLE MESSAGE BOARDS (PCMS)

SITE NO	PRIOR TO CONSTRUCTION	
	PHASE 1 (3 SEC)	PHASE 2 (3 SEC)
SITE 1 480 FT SOUTH OF S END OF SLAB, R	BRIDGE WORK BEGINS	MONTH XX EXPECT DELAYS
SITE 2 560 FT NORTH OF N END OF SLAB, L	BRIDGE WORK BEGINS	MONTH XX EXPECT DELAYS





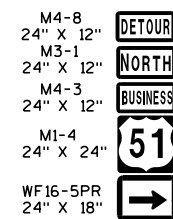
LEGEND	
	TYPE III BARRICADE
	TYPE III BARRICADE WITH ATTACHED SIGN
	TRAFFIC CONTROL DRUM
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
	SIGN ON PERMANENT SUPPORT
	DIRECTION OF TRAFFIC
	FLASHING ARROW BOARD
	WORK AREA

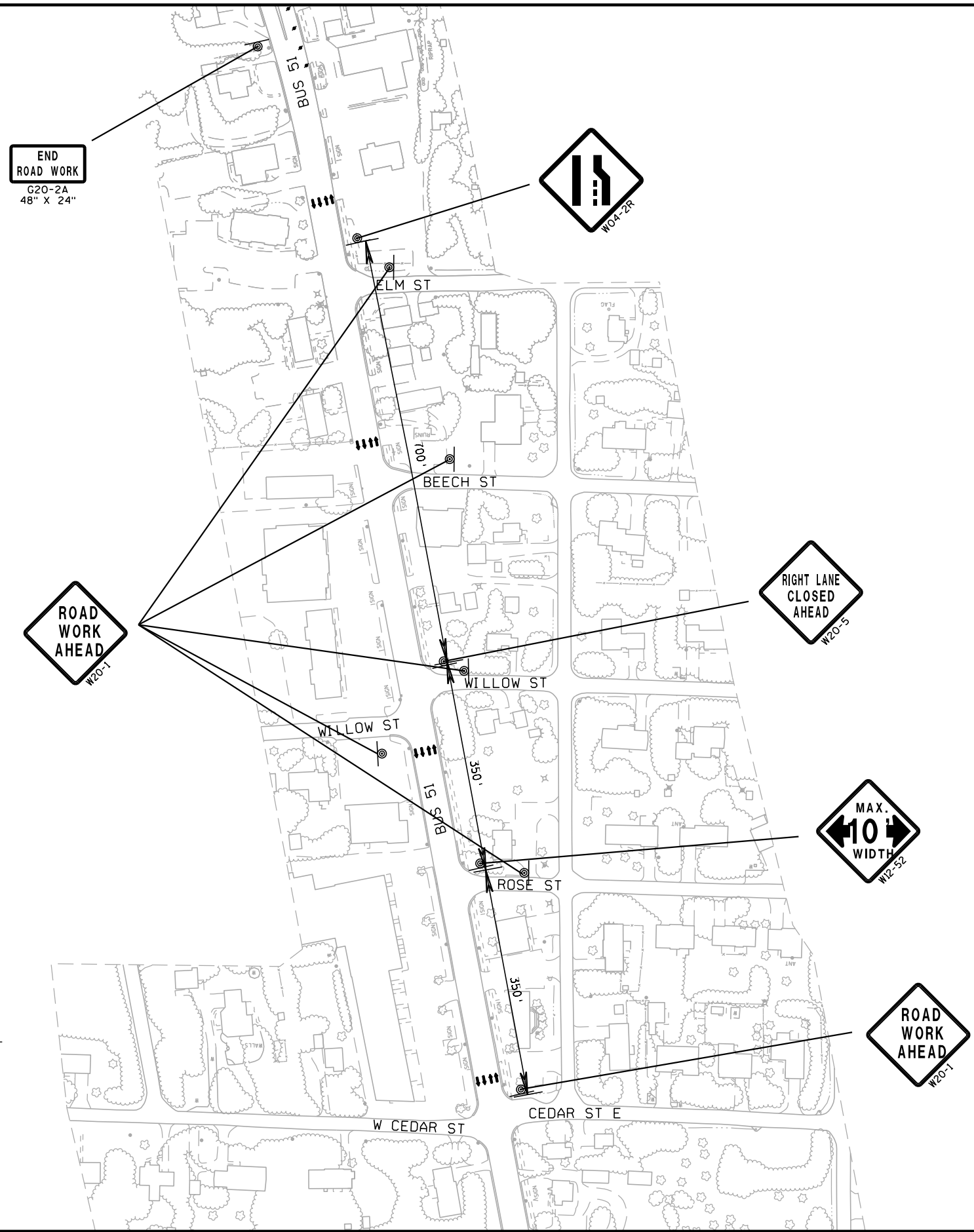











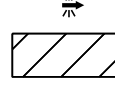
LEGEND

	TYPE III BARRICADE
	TYPE III BARRICADE WTH ATTACHED SIGN
	TRAFFIC CONTROL DRUM
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
	SIGN ON PERMANENT SUPPORT
	DIRECTION OF TRAFFIC
	FLASHING ARROW BOARD
	WORK AREA











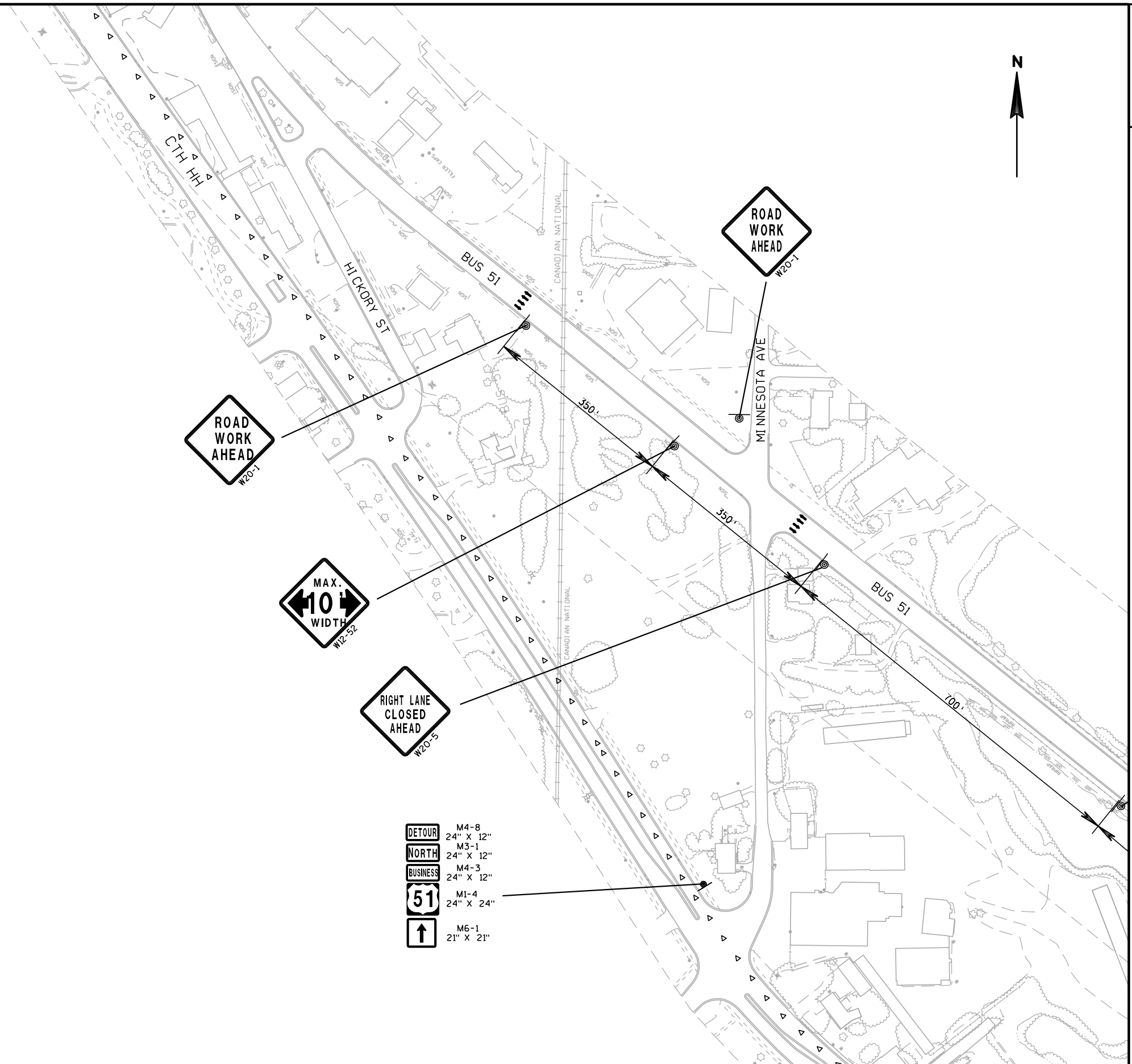


LEGEND

-  TYPE III BARRICADE
-  TYPE III BARRICADE WITH ATTACHED SIGN
-  TRAFFIC CONTROL DRUM
-  TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
-  SIGN ON PERMANENT SUPPORT
-  DIRECTION OF TRAFFIC
-  FLASHING ARROW BOARD
-  WORK AREA








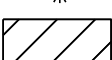


LEGEND	
	TYPE III BARRICADE
	TYPE III BARRICADE WTH ATTACHED SIGN
	TRAFFIC CONTROL DRUM
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
	SIGN ON PERMANENT SUPPORT
	DIRECTION OF TRAFFIC
	FLASHING ARROW BOARD
	WORK AREA

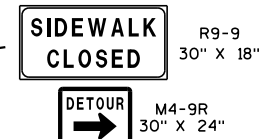




LEGEND

-  TYPE III BARRICADE
-  TYPE III BARRICADE WITH ATTACHED SIGN
-  TRAFFIC CONTROL DRUM
-  TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
-  SIGN ON PERMANENT SUPPORT
-  DIRECTION OF TRAFFIC
-  FLASHING ARROW BOARD
-  WORK AREA

M4-8
24" X 12"
M3-1
24" X 12"
M4-3
24" X 12"
M1-4
24" X 24"
WF16-5PR
24" X 18"



DATE 15MAY13		E S T I M A T E O F Q U A N T I T I E S			
LINE				1009-45-64	
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0010	204.0110	REMOVING ASPHALTIC SURFACE	SY	66.000	66.000
0020	204.0120	REMOVING ASPHALTIC SURFACE MILLING	SY	304.000	304.000
0030	204.0150	REMOVING CURB & GUTTER	LF	270.000	270.000
0040	204.0155	REMOVING CONCRETE SIDEWALK	SY	76.000	76.000
0050	305.0110	BASE AGGREGATE DENSE 3/4-INCH	TON	9.000	9.000
0060	415.6000.S	ROUTE AND SEAL	LF	106.000	106.000
0070	416.0610	DRILLED TIE BARS	EACH	7.000	7.000
0080	465.0105	ASPHALTIC SURFACE	TON	37.000	37.000
0090	502.0100	CONCRETE MASONRY BRIDGES	CY	1.000	1.000
0100	509.0301	PREPARATION DECKS TYPE 1	SY	10.000	10.000
0110	509.0302	PREPARATION DECKS TYPE 2	SY	4.000	4.000
0120	509.1200	CURB REPAIR	LF	5.000	5.000
0130	509.5100.S	POLYMER OVERLAY	SY	1,735.000	1,735.000
0140	601.0407	CONCRETE CURB & GUTTER 18-INCH TYPE D	LF	124.000	124.000
0150	601.0411	CONCRETE CURB & GUTTER 30-INCH TYPE D	LF	124.000	124.000
0160	602.0405	CONCRETE SIDEWALK 4-INCH	SF	674.000	674.000
0170	619.1000	MOBILIZATION	EACH	1.000	1.000
0180	627.0200	MULCHING	SY	15.000	15.000
0190	630.0120	SEEDING MIXTURE NO. 20	LB	0.400	0.400
0200	643.0100	TRAFFIC CONTROL (PROJECT) 01. 1009-45-64	EACH	1.000	1.000
0210	643.0300	TRAFFIC CONTROL DRUMS	DAY	2,712.000	2,712.000
0220	643.0420	TRAFFIC CONTROL BARRICADES TYPE III	DAY	651.000	651.000
0230	643.0715	TRAFFIC CONTROL WARNING LIGHTS TYPE C	DAY	519.000	519.000
0240	643.0800	TRAFFIC CONTROL ARROW BOARDS	DAY	70.000	70.000
0250	643.0900	TRAFFIC CONTROL SIGNS	DAY	961.000	961.000
0260	643.0920	TRAFFIC CONTROL COVERING SIGNS TYPE II	EACH	2.000	2.000
0270	643.1050	TRAFFIC CONTROL SIGNS PCMS	DAY	42.000	42.000
0280	643.2000	TRAFFIC CONTROL DETOUR (PROJECT) 01. 1009-45-64	EACH	1.000	1.000
0290	643.3000	TRAFFIC CONTROL DETOUR SIGNS	DAY	208.000	208.000
0300	646.0106	PAVEMENT MARKING EPOXY 4-INCH	LF	902.000	902.000
0310	690.0150	SAWING ASPHALT	LF	215.000	215.000
0320	690.0250	SAWING CONCRETE	LF	157.000	157.000
0330	SPV.0035	SPECIAL 01. SCOUR REPAIR GROUT	CY	3.000	3.000
0340	SPV.0035	SPECIAL 02. SCOUR REPAIR GROUT BAGS	CY	15.000	15.000
0350	SPV.0035	SPECIAL 03. SCOUR REPAIR GROUT MATS 4"	CY	66.000	66.000
0360	SPV.0035	SPECIAL 04. UNDERWATER EXCAVATION FOR STRUCTURES BRIDGES B-37-280	CY	31.000	31.000
0370	SPV.0090	SPECIAL 01. CONCRETE CURB & GUTTER 53-INCH TYPE A, SPECIAL	LF	22.000	22.000

3

REMOVING ASPHALTIC SURFACE		
LOCATION	204.0110 SY	REMARKS
NORTH MEDIAN	31	PLOVER RIVER BRIDGE
SOUTH MEDIAN	35	PLOVER RIVER BRIDGE
TOTAL	66	

REMOVING ASPHALTIC SURFACE MILLING		
LOCATION	204.0120 SY	REMARKS
NORTH APPROACH NORTHBOUND LANES	81	PLOVER RIVER BRIDGE
NORTH APPROACH SOUTHBOUND LANES	81	PLOVER RIVER BRIDGE
SOUTH APPROACH NORTHBOUND LANES	71	PLOVER RIVER BRIDGE
SOUTH APPROACH SOUTHBOUND LANES	71	PLOVER RIVER BRIDGE
TOTAL	304	

REMOVING CURB & GUTTER		
LOCATION	204.0150 LF	REMARKS
SW CORNER APPROACH	22	EAU CLAIRE RIVER BRIDGE
NORTH APPROACH	132	PLOVER RIVER BRIDGE
SOUTH APPROACH	116	PLOVER RIVER BRIDGE
TOTAL	270	

3

REMOVING CONCRETE SIDEWALK		
LOCATION	204.0155 SY	REMARKS
NE SIDEWALK	3	EAU CLAIRE RIVER BRIDGE
NW SIDEWALK	12	PLOVER RIVER BRIDGE
NE SIDEWALK	26	PLOVER RIVER BRIDGE
SW SIDEWALK	12	PLOVER RIVER BRIDGE
SE SIDEWALK	23	PLOVER RIVER BRIDGE
TOTAL	76	

BASE AGGREGATE DENSE		
LOCATION	305.0110 3/4-INCH TON	REMARKS
UNDISTRIBUTED	1	EAU CLAIRE RIVER BRIDGE
UNDISTRIBUTED	8	PLOVER RIVER BRIDGE
TOTAL	9	

ROUTE AND SEAL		
LOCATION	415.6000.S LF	REMARKS
NORTH APPROACH	53	EAU CLAIRE RIVER BRIDGE
SOUTH APPROACH	53	EAU CLAIRE RIVER BRIDGE
TOTAL	106	

ASPHALTIC SURFACE		
LOCATION	465.0105 ASPHALTIC SURFACE TON	REMARKS
NORTH APPROACH NORTHBOUND LANES	8	PLOVER RIVER BRIDGE
NORTH APPROACH SOUTHBOUND LANES	8	PLOVER RIVER BRIDGE
SOUTH APPROACH NORTHBOUND LANES	7	PLOVER RIVER BRIDGE
SOUTH APPROACH SOUTHBOUND LANES	7	PLOVER RIVER BRIDGE
NORTH MEDIAN	3	PLOVER RIVER BRIDGE
SOUTH MEDIAN	4	PLOVER RIVER BRIDGE
TOTAL	37	

CONCRETE CURB & GUTTER					
LOCATION	601.0407 18-INCH TYPE D LF	601.0411 30-INCH TYPE D LF	SPV.0090.01 53-INCH TYPE A, SPECIAL LF	416.0610 DRILLED TIE BARS EACH	REMARKS
SW CORNER APPROACH	-	-	22	7	EAU CLAIRE RIVER BRIDGE
NORTH APPROACH	66	-	-	-	PLOVER RIVER BRIDGE
SOUTH APPROACH	58	-	-	-	PLOVER RIVER BRIDGE
NORTH APPROACH	-	66	-	-	PLOVER RIVER BRIDGE
SOUTH APPROACH	-	58	-	-	PLOVER RIVER BRIDGE
TOTAL	124	124	22	7	

3

CONCRETE SIDEWALK		
LOCATION	602.0405 4-INCH SF	REMARKS
NE SIDEWALK	30	EAU CLAIRE RIVER BRIDGE
NW CORNER	105	PLOVER RIVER BRIDGE
NE CORNER	231	PLOVER RIVER BRIDGE
SW CORNER	105	PLOVER RIVER BRIDGE
SE CORNER	203	PLOVER RIVER BRIDGE
TOTAL	674	

TRAFFIC CONTROL								
643.0300 DRUMS DAYS	* 42" SLIMLINE CAHNNELIZER EACH	643.0420 BARRICADES TYPE III DAYS	643.0715 WARNING LIGHTS TYPE C DAYS	643.0800 ARROW BOARDS DAYS	643.0900 SIGNS DAYS	643.3000 DETOUR SIGNS DAYS	643.1050 MESSAGE CHANGEABLE MESSAGE SIGNS DAYS	
EAU CLAIRE RIVER BRIDGE	1762	-	515	371	58	717	-	28
PLOVER RIVER BRIDGE	944	10	116	128	12	244	208	14
UNDISTRIBUTED	20	4	20	20	-	-	-	-
TOTALS	2712	14	651	519	70	961	208	42
* FOR INFORMATIONAL PURPOSES ONLY. NOT A BID ITEM								

3

TRAFFIC CONTROL COVERING SIGNS TYPE II				
STAGE	643.0920 EACH	NUMBER OF CYCLES	NUMBER OF SIGNS	REMARKS
B-49-67, INSIDE AND OUTSIDE LANE CLOSURES	2	1	2	PLOVER RIVER BRIDGE
	2			

PAVEMENT MARKING EPOXY				
LOCATION	646.0106 4-INCH EDGE LINE YELLOW LF	646.0106 4-INCH CENTERLINE YELLOW LF	646.0106 4-INCH LANE LINE WHITE LF	REMARKS
EAU CLAIRE RIVER BRIDGE	-	386	-	SOLID/SOLID
EAU CLAIRE RIVER BRIDGE	-	-	97	DASHED
PLOVER RIVER BRIDGE	335	-	-	SOLID
PLOVER RIVER BRIDGE	-	-	84	DASHED
SUB TOTALS	335	386	181	
TOTAL		902		

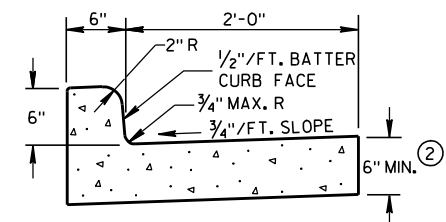
SAWING CONCRETE		
LOCATION	690.0250 LF	REMARKS
SW CORNER CURB & GUTTER	53	EAU CLAIRE RIVER BRIDGE
NE SIDEWALK	16	EAU CLAIRE RIVER BRIDGE
NORTH APPROACH	44	PLOVER RIVER BRIDGE
SOUTH APPROACH	44	PLOVER RIVER BRIDGE
TOTAL	157	

SAWING ASPHALT		
LOCATION	690.0150 LF	REMARKS
NORTH APPROACH	88	PLOVER RIVER BRIDGE
NORTH MEDIAN	17	PLOVER RIVER BRIDGE
SOUTH APPROACH	88	PLOVER RIVER BRIDGE
SOUTH MEDIAN	22	PLOVER RIVER BRIDGE
TOTAL	215	

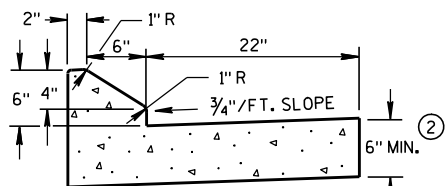
MULCHING AND SEEDING			
LOCATION	627.0200 MULCHING SY	630.0120 SEEDING MIXTURE NO 20 LB	REMARKS
UNDISTRIBUTED	15	0.4	PLOVER RIVER BRIDGE
TOTALS	15	0.4	

Standard Detail Drawing List

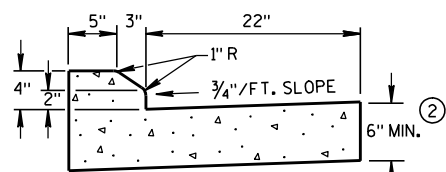
08D01-17	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
15C02-04A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-04B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C03-01	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C08-15A	PAVEMENT MARKING (MAINLINE)
15D20-01	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D30-01	TRAFFIC CONTROL, SIDEWALK CLOSURE



TYPES A & D ①

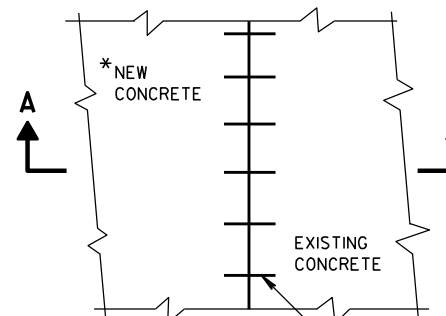


6" SLOPED CURB TYPES G & J ①



4" SLOPED CURB TYPES G & J ①

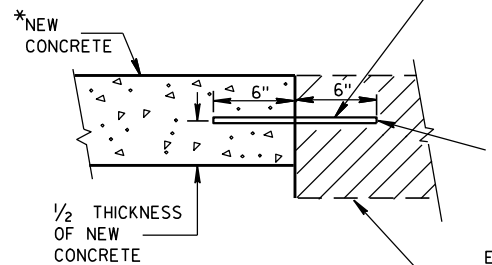
CONCRETE CURB & GUTTER 30"



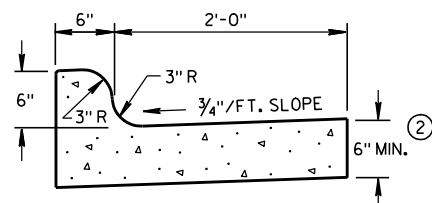
PLAN VIEW

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

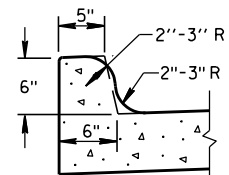
NO. 6 TIE BARS SPACED 2'-6" C-C,
INSTALLED PERPENDICULAR
TO THE LONGITUDINAL JOINT.



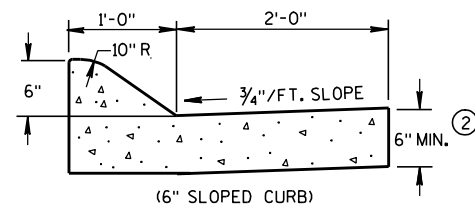
SECTION A-A
TIE BARS DRILLED
INTO EXISTING PAVEMENT



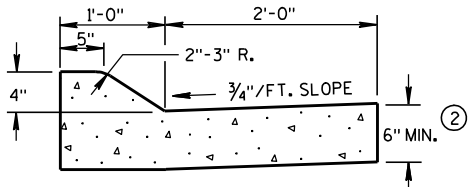
TYPES K & L ①



OPTIONAL CURB SHAPE
FOR TYPES K & L ①

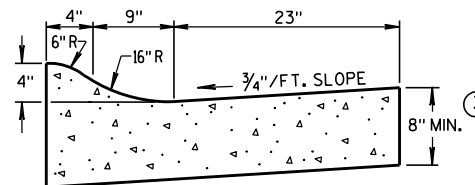


(6" SLOPED CURB)

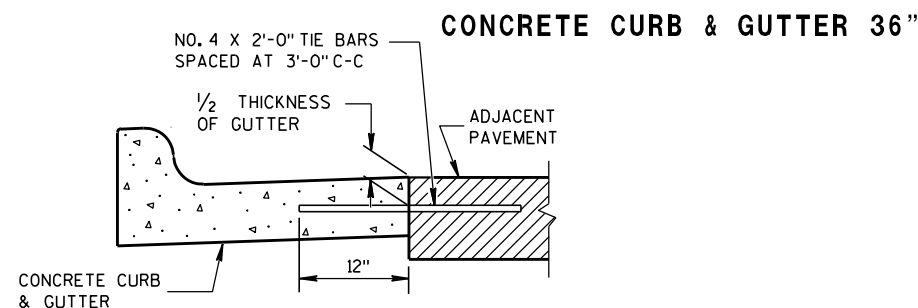


(4" SLOPED CURB)

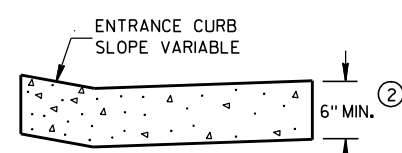
TYPES A & D ①



4" SLOPED CURB TYPES R & T ① ④

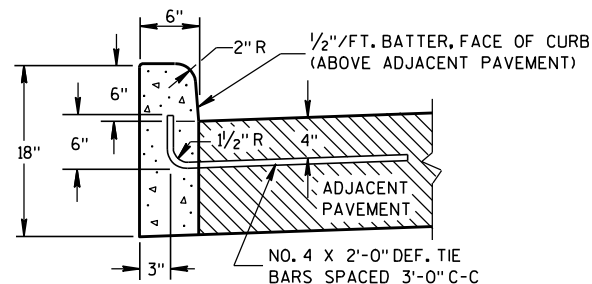


TYPICAL TIE BAR LOCATION ①



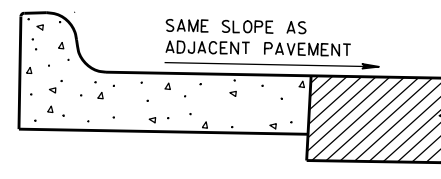
DRIVEWAY ENTRANCE CURB

(WHEN DIRECTED BY THE ENGINEER)

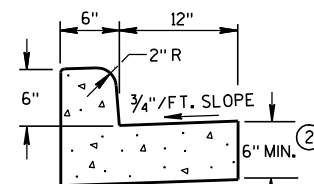


TYPES A & D ①

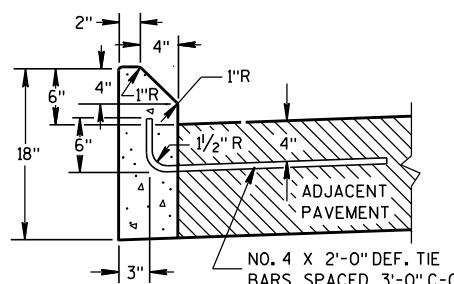
CONCRETE CURB



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



TYPES A & D
CONCRETE CURB & GUTTER 18"



TYPES G & J ①

GENERAL NOTES

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

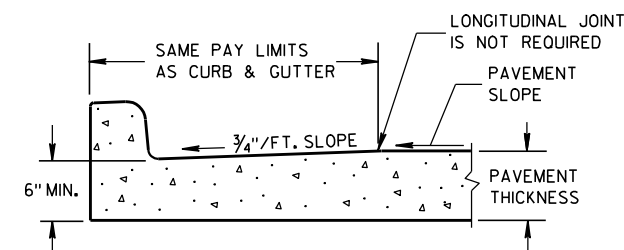
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

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

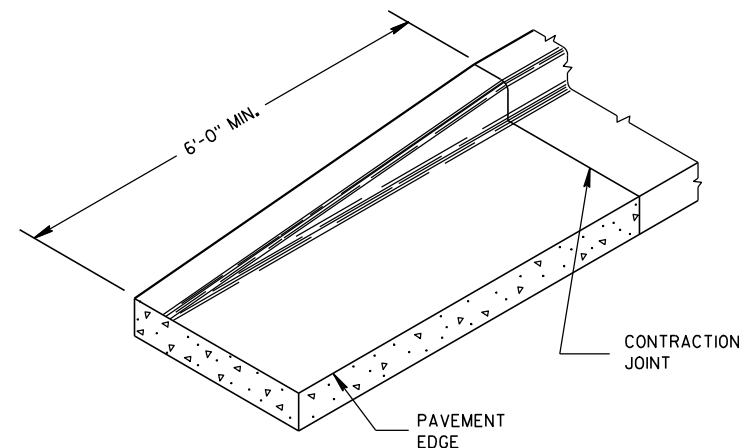
WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

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

- ① TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K AND R.
- ② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- ③ THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- ④ THE FACE OF CURB IS 6" FROM THE BACK OF CURB.
- ⑤ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.



PARTIAL SECTION OF PAVEMENT
WITH INTEGRAL CURB & GUTTER



END SECTION CURB & GUTTER

CONCRETE CURB, CONCRETE
CURB & GUTTER AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

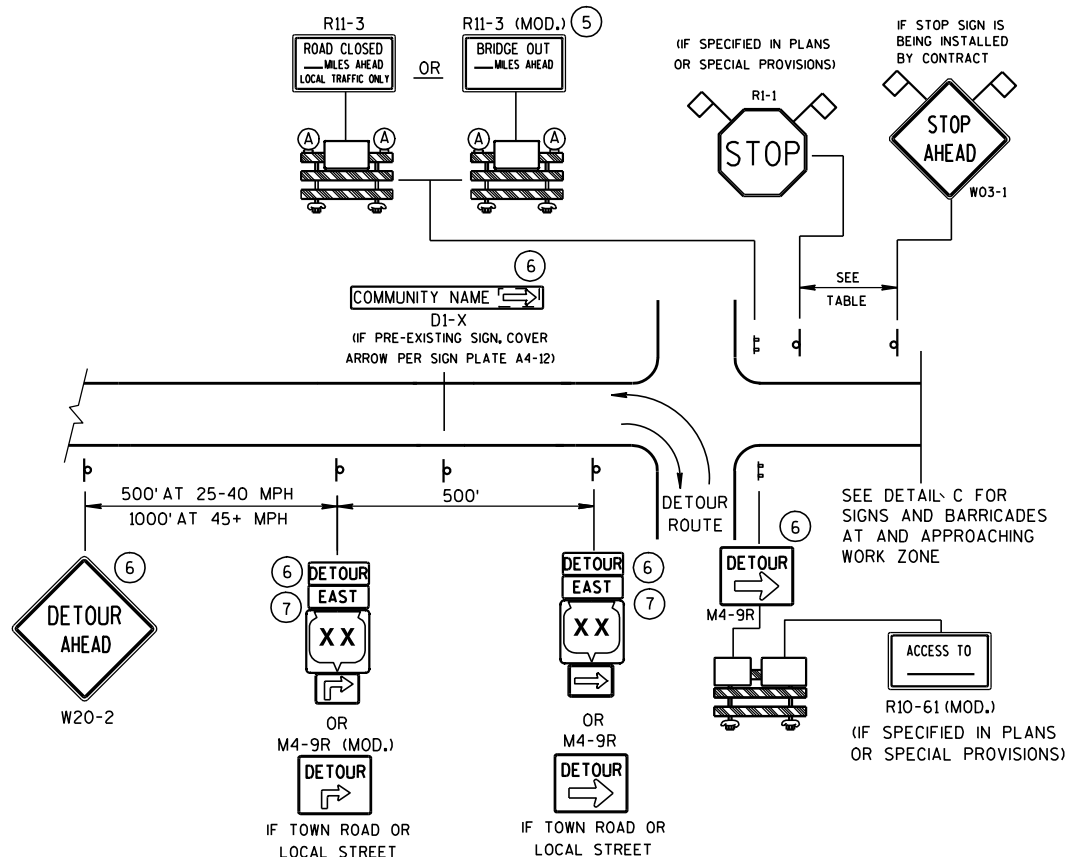
APPROVED

9/4/08

DATE

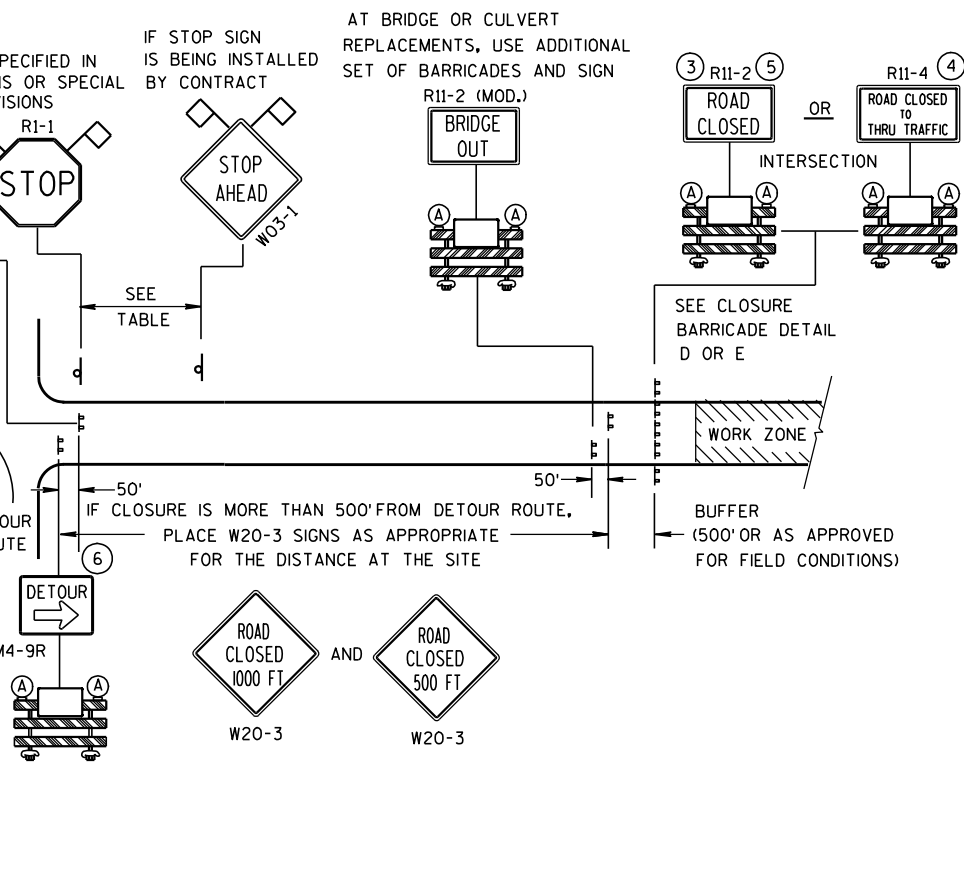
FHWA

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT
ENGINEER



DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

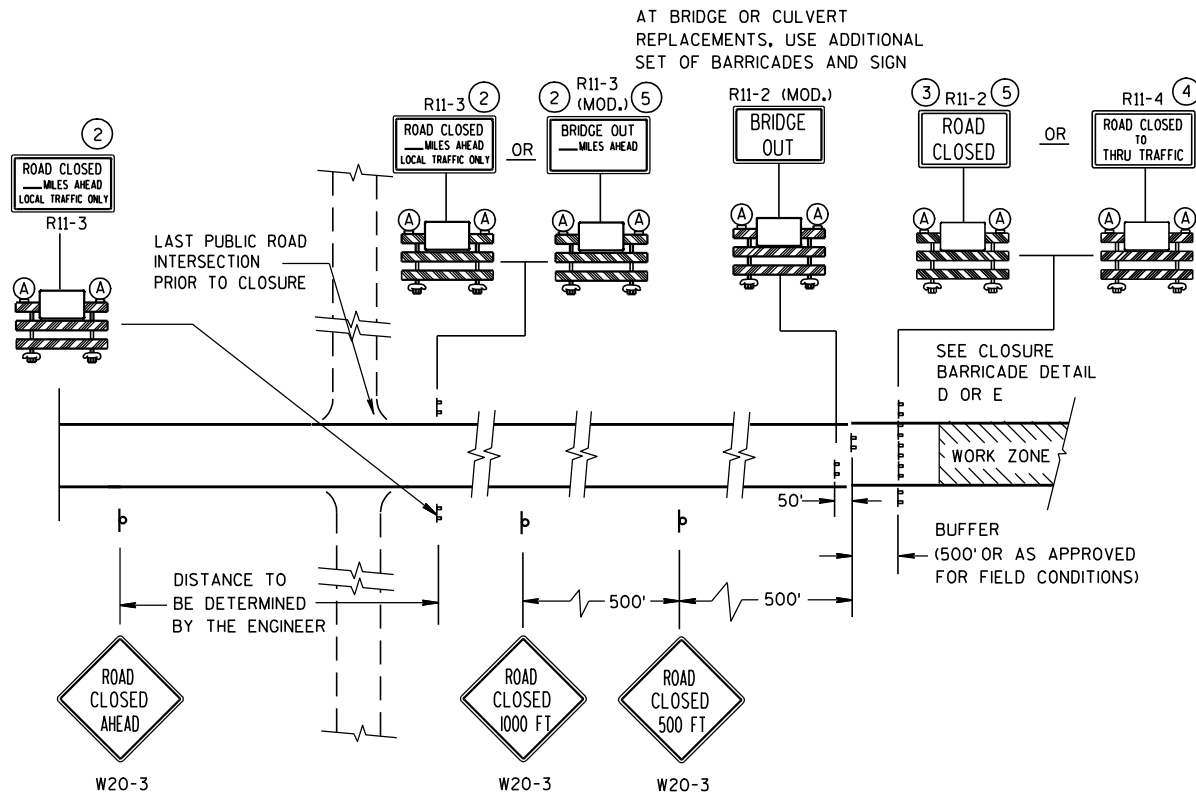
WORK ZONE GREATER THAN 1/2 MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN 1/2 MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)

DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR



SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

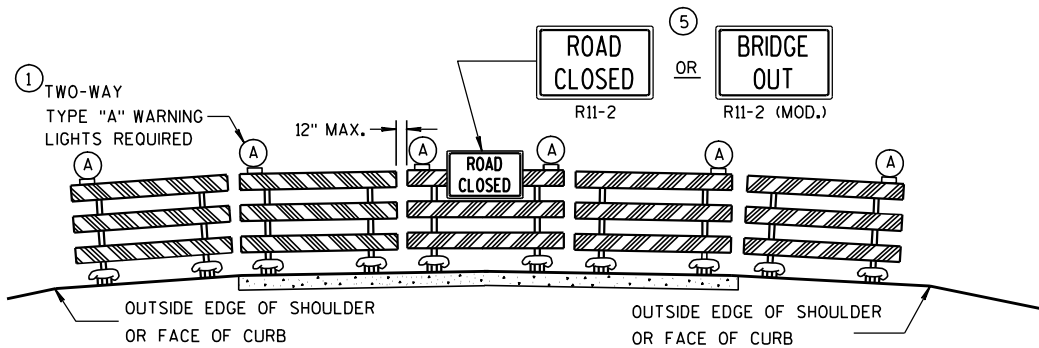
SEE SDD 15C2-4b
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦

LEGEND

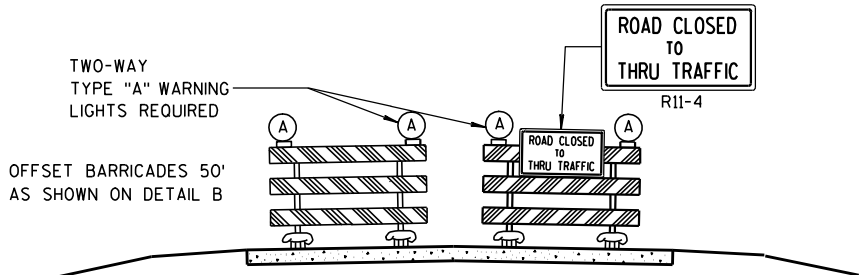
- POST MOUNTED SIGN
- TYPE III BARRICADES
- TYPE "A" LOW INTENSITY FLASHING WARNING LIGHT (FOR NIGHT USE)
- WORK ZONE
- DETOUR EAST M4-8 M3-X
- MI-4 OR MI-5A OR MI-6
- MO5-1 OR MO6-1
- FLAGS, 16" X 16" MIN., (ORANGE)

**BARRICADES AND SIGNS
FOR
MAINLINE CLOSURES**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2-4a FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

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

THE REFLECTIVE SHEETING USED ON R11-2, R11-3, R11-4, R10-61 AND R1-1 SIGNS SHALL COMPLY WITH SUBSECTION 637.2.2.2 OF THE STANDARD SPECIFICATIONS.

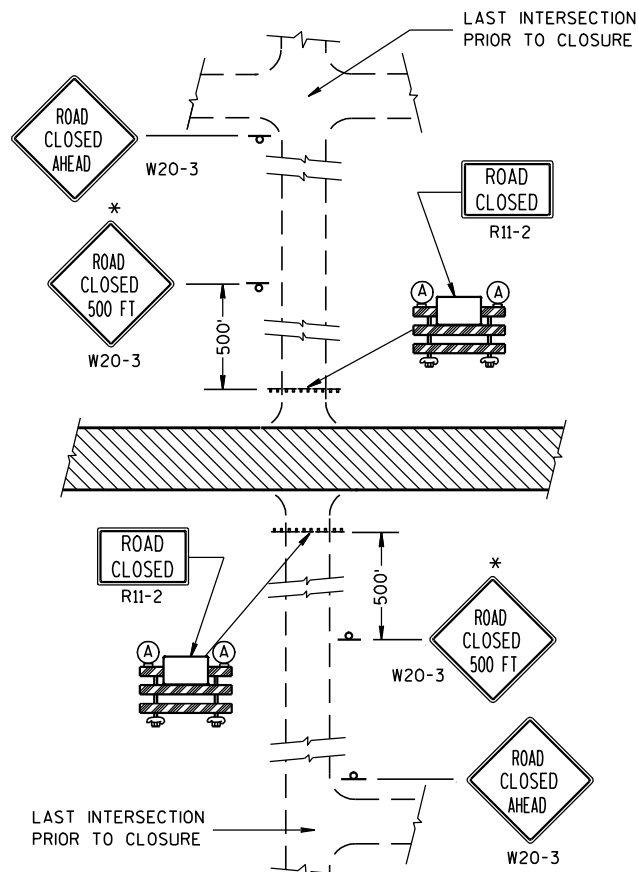
"WO AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

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

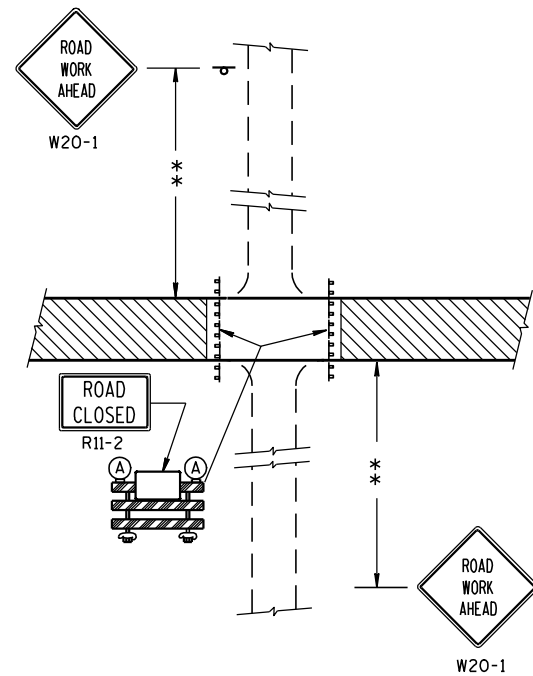
- R11-2 SHALL BE 48" X 30".
- R11-3, R11-4 AND R10-61 SHALL BE 60" X 30".
- M4-9 SHALL BE 30" X 24".
- M3-X AND M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1-1 SHALL BE 36" X 36".

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

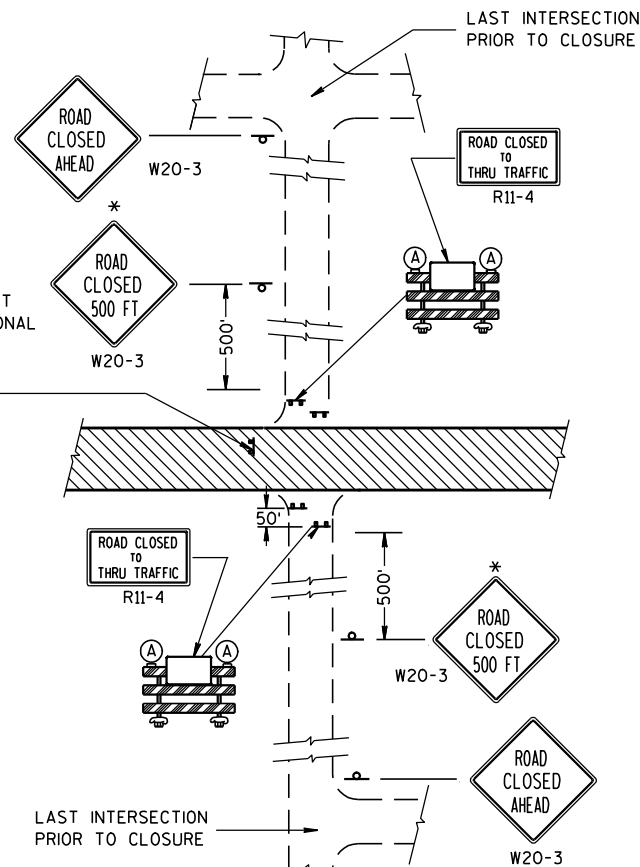
BARRICADES AND SIGNS FOR MAINLINE CLOSURES	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
9/16/03 DATE	/S/ Thomas N. Notbohm CHIEF SIGNS AND MARKING ENGINEER
FHWA	



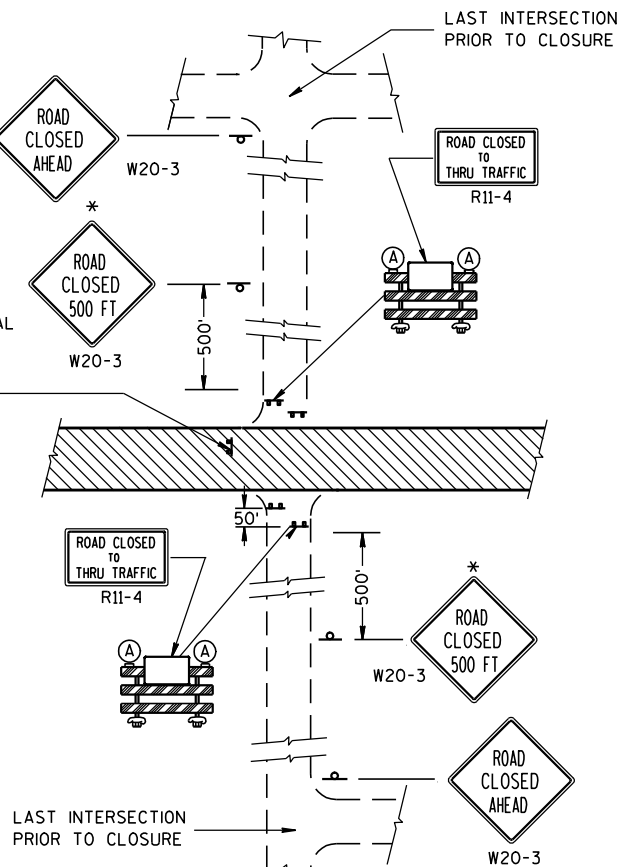
DETAIL 1
(NO ACCESS TO PROJECT)



DETAIL 2
(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT).



DETAIL 3
(PUBLIC CROSS-TRAFFIC MAINTAINED. CONTRACTOR,
LOCAL BUSINESS AND RESIDENT ACCESS).



DETAIL 4
(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

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

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

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

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.

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

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

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

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

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

THE REFLECTIVE SHEETING USED ON R11-2, R11-3 AND R11-4 SIGNS SHALL COMPLY WITH SUBSECTION 637.2.2.2 OF THE STANDARD SPECIFICATIONS.

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

R11-2 SHALL BE 48" X 30".

R11-4 AND R11-3 SHALL BE 60" X 30".

*OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FT. OR LESS FROM THE WORK ZONE.

**500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

⌋ POST MOUNTED WARNING SIGN

⌋ TYPE III BARRICADES

Ⓐ TYPE "A" LOW INTENSITY FLASHING WARNING LIGHT (FOR NIGHT USE)

▨ WORK AREA

**BARRICADES AND SIGNS
FOR
SIDEROAD CLOSURES**

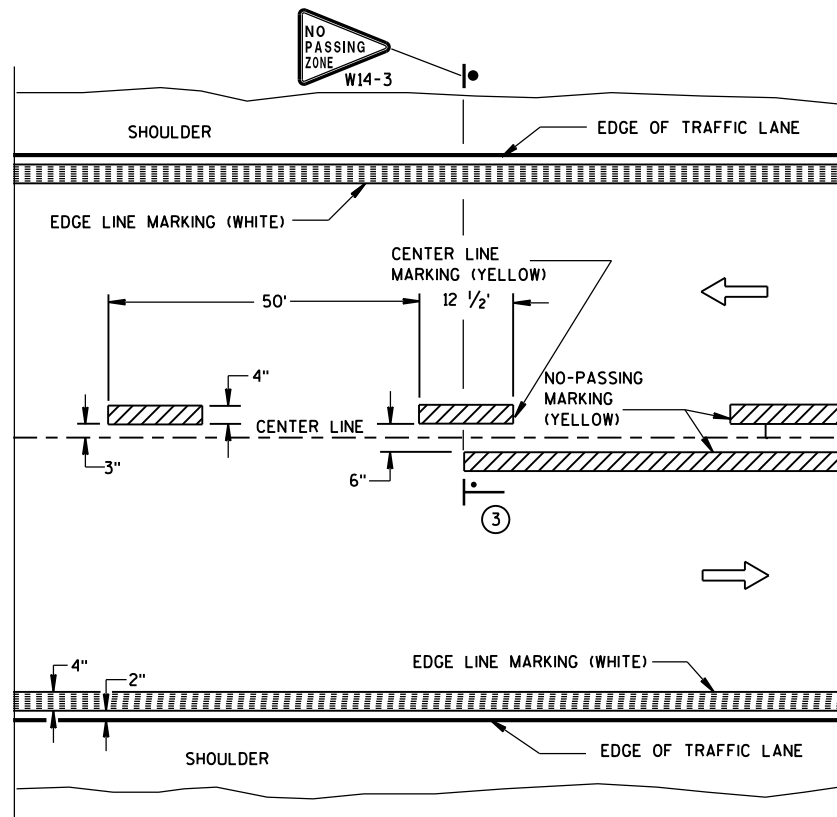
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

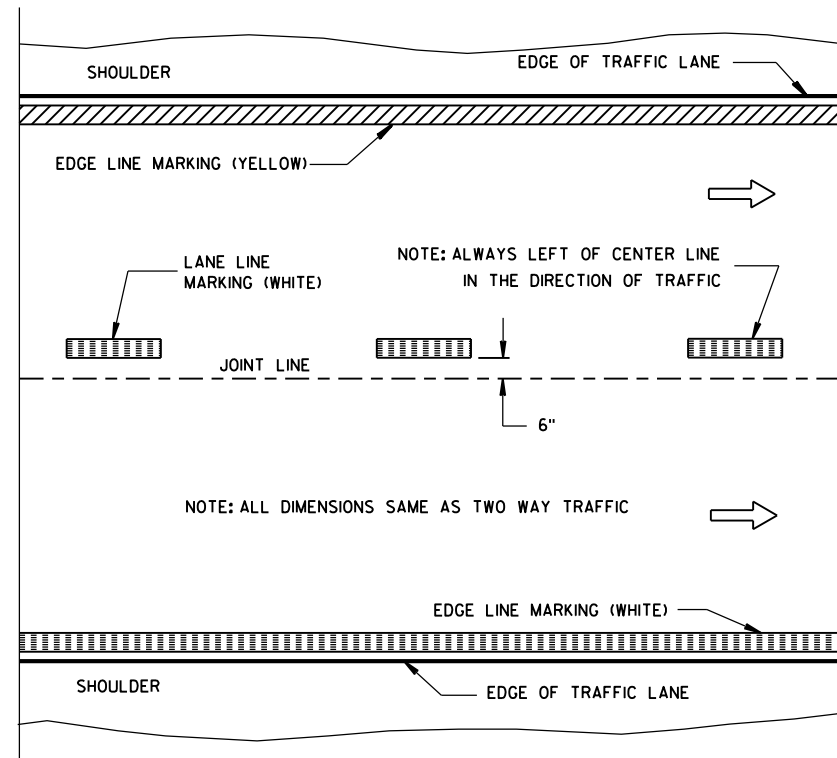
9-16-03
DATE

/S/ Thomas N. Notbohm
CHIEF SIGNS AND MARKING ENGINEER

FHWA

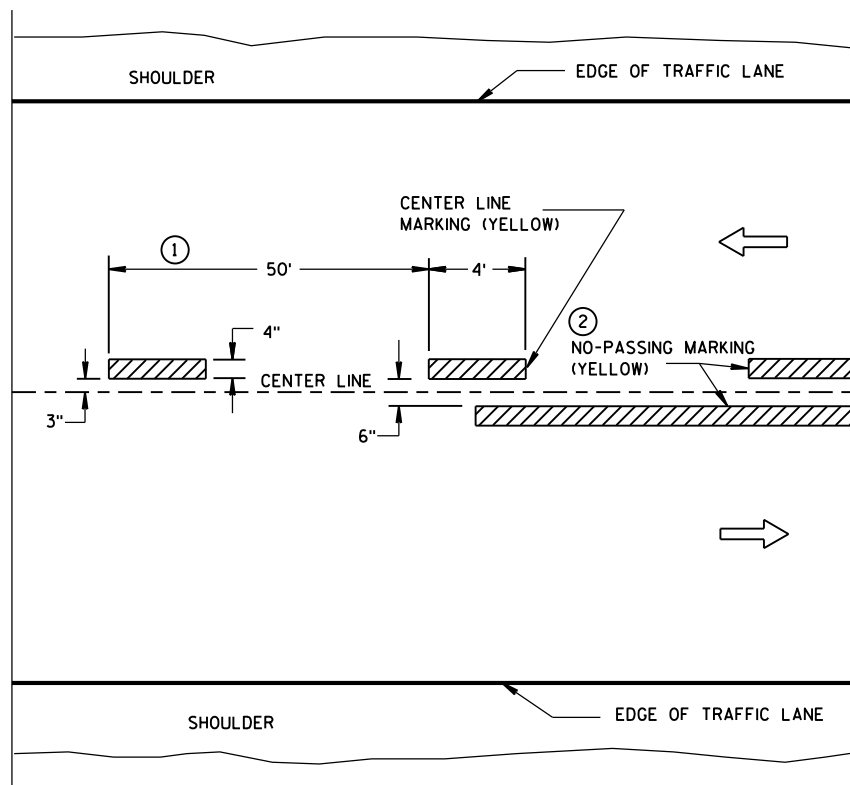


TWO WAY TRAFFIC

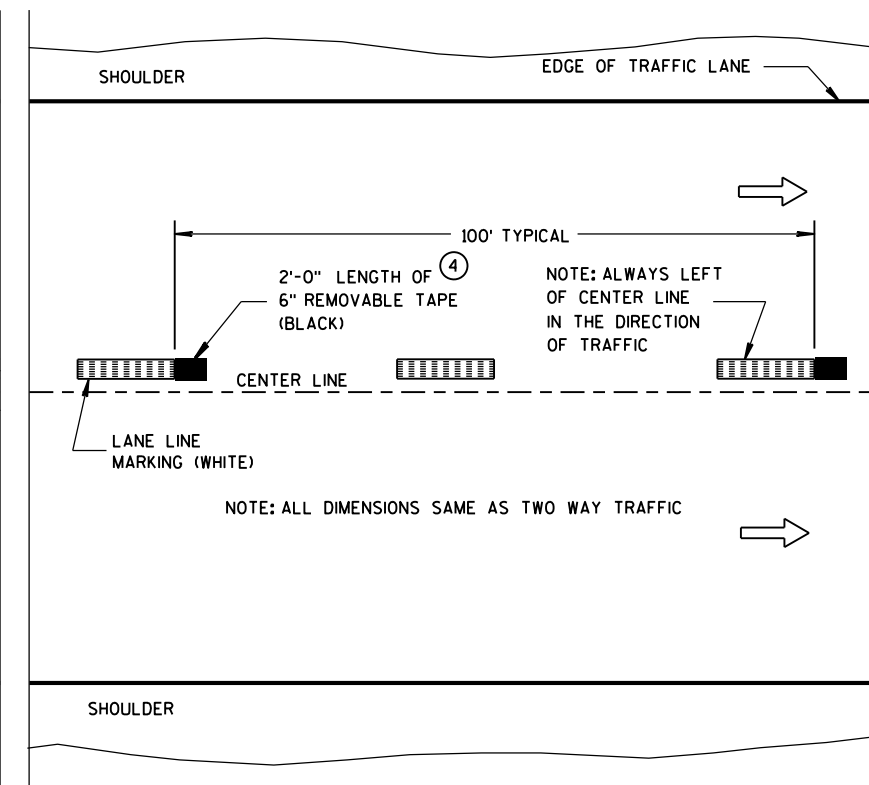


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

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

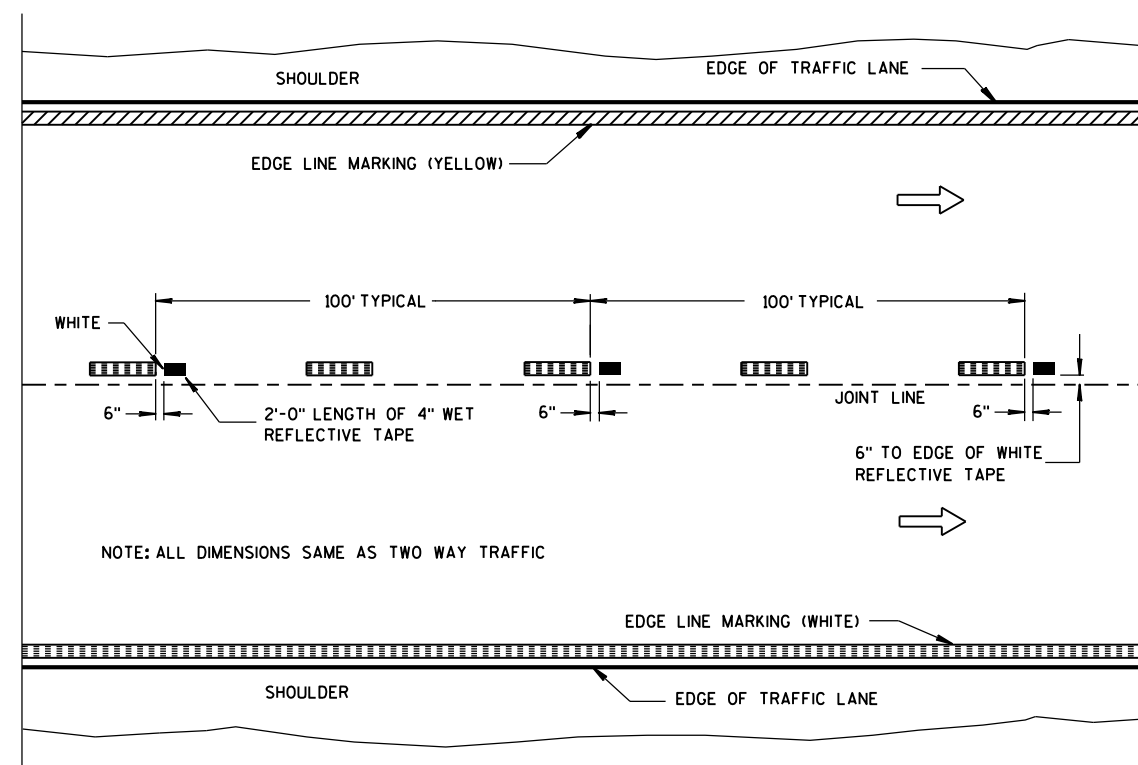
GENERAL NOTES

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

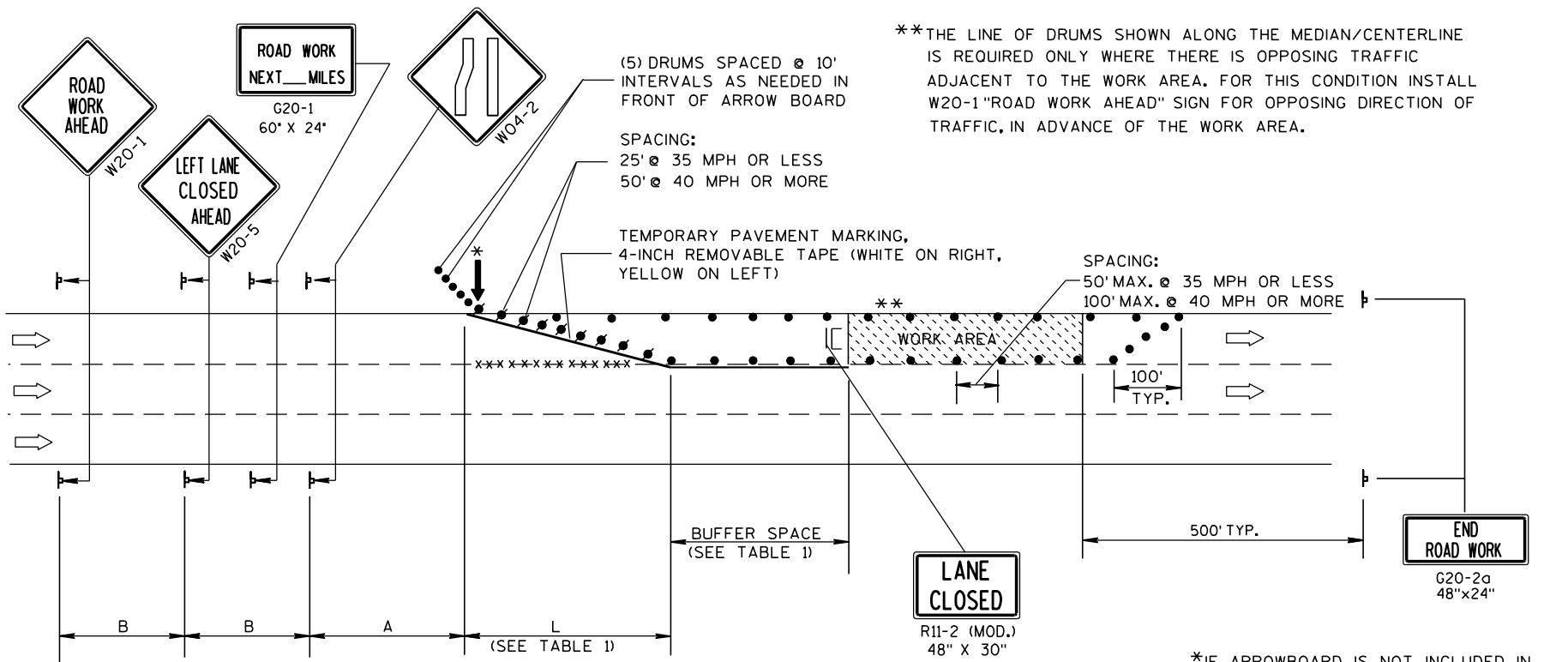
LEGEND

- "T" MARKING
- POST MOUNTED SIGN

PAVEMENT MARKING
(MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10-1-2012 /S/ Travis Feltes
DATE STATE TRAFFIC ENGINEER OF DESIGN
FHWA



B=400' AT 25-30 MPH
700' AT 35-40 MPH
1000' AT 45-55 MPH

A=200' AT 25-30 MPH
350' AT 35-40 MPH
500' AT 45-55 MPH

TABLE 1
TAPER AND BUFFER SPACE
FOR 12' LANE WIDTH

S	L	BUFFER SPACE
25	125'	55'
30	180'	85'
35	245'	120'
40	320'	170'
45	540'	220'
50	600'	280'
55	660'	335'

FOR LANE WIDTH OTHER THAN 12':

L = WS AT 45 MPH OR GREATER

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

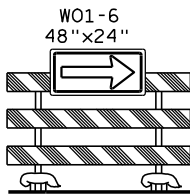
L = TAPER LENGTH IN FEET

S = NON-CONSTRUCTION SPEED LIMIT (MPH)

W = WIDTH OF LANE CLOSURE

LEGEND

- /● DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY-BURN)
- ⌵ POST MOUNTED SIGN
- ↑ ARROW BOARD
- IC/C TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- DIRECTION OF TRAFFIC FLOW
- xxxx REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)



GENERAL NOTES

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A 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 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, OR THAT WILL BE PLACED IN A CLOSED LANE, 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.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 7 OR MORE CONTINUOUS DAYS AND NIGHTS.

ON UNDIVIDED ROADWAYS, OMIT THE SIGNS SHOWN ON LEFT SIDE OF ROAD.

W20-1, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

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

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS.

PLACE THE ARROWBOARD AS CLOSE AS POSSIBLE TO THE BEGINNING OF THE LANE CLOSURE TAPER, PREFERABLY ON THE SHOULDER OR TERRACE.

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

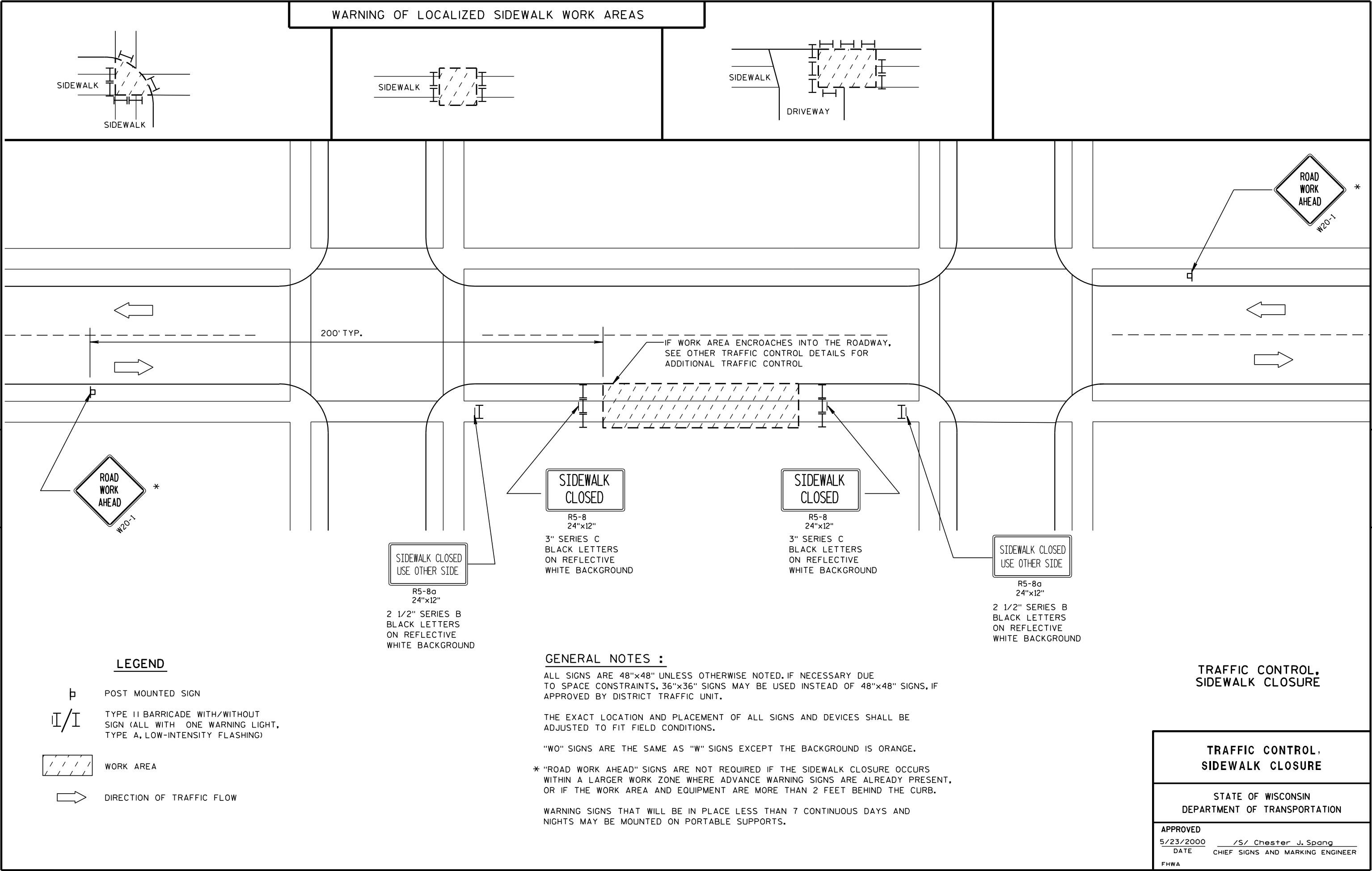
BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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

TRAFFIC CONTROL,
SINGLE LANE CLOSURE,
NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/23/00 /S/ Chester J. Spang
DATE CHIEF SIGNS AND MARKING ENGINEER
FHWA



DESIGN DATA

LIVE LOAD: HS-20

INVENTORY RATING: 25
OPERATIONAL RATING: 41
MAXIMUM STANDARD PERMIT VEHICLE LOAD = 185 (KIPS)

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED
DIMENSIONS SHOWN ON THE PLANS ARE BASED ON THE ORIGINAL STRUCTURE PLANS
EXISTING SUPERSTRUCTURE BAR STEEL REINFORCEMENT IS EPOXY COATED

ULTIMATE DESIGN STRESSES:
CONCRETE MASONRY GROUT — F'C = 3,000 P.S.I.
CONCRETE MASONRY BRIDGES — F'C = 4,000 P.S.I.

NOTES

RIVER BOTTOM ELEVATION AND EXTENT OF SCOUR AND UNDERMINING OF PIER SHAFT ARE FROM THE "UNDERWATER BRIDGE INSPECTION REPORT U.S.H. B51 -GRAND AVE. BRIDGE OVER THE EAU CLAIRE RIVER, STRUCTURE B-37-280" DATED 10/14/2011 BY AYERS ASSOCIATES.

GROUT BAG "A" SHALL BE A MINIMUM OF 3'-0" WIDE X 4'-0" LONG X 1'-0" THICK, AND A MAXIMUM OF 3'-6" WIDE X 8'-0" LONG X 2'-6" THICK.

REMOVE OR CUT GROUT TUBE FLUSH WITH TOP OF BAGS AFTER FILLING CAVITY BELOW PIER SHAFT WITH GROUT.

BAGS AND MAT ARE TO BE PLACED SO THAT THERE IS NO GAP BETWEEN THE BAGS AND THE PIER SHAFT.

ADJACENT MATS SHALL BE JOINED BY FIELD SEWING OR ZIPPERING BEFORE FILLING THE MATS WITH GROUT, ALTERNATE DETAIL IS ALLOWED AS SHOWN ON THE PLANS.

STACK BAGS AS REQUIRED. JOINTS BETWEEN BAGS IN SUCCESSIVE ROWS AND TIERS SHALL BE STAGGERED. PIN ROWS TOGETHER WITH #5 BARS @ 4'-0" SPACING.

REMOVE SILT AND LOOSE MATERIAL UNDER PIER SHAFT BEFORE PLACING GROUT MAT, BAGS AND GROUT. WORK TO BE INCIDENTAL TO BID ITEM SCOUR REPAIR, GROUT MATS 4".

REMOVE MATERIAL THAT CONFLICTS WITH OR COULD DAMAGE GROUT MAT.

DIMENSIONS SHOWING LIMITS OF GROUT MAT ARE MEASURED ALONG FINISHED SURFACE OF MAT AFTER GROUTING.

ALL DECK CONCRETE REMOVAL SHALL BE DEFINED BY A 1" DEEP SAW CUT. WORK TO BE INCIDENTAL TO BID ITEM PREPARATION DECKS TYPE 1.

BENCH MARK

NO.	LOCATION	DESCRIPTION	ELEV.
1	PIER 3	TOP WALL AT DOWNSTREAM (WEST) NOSE	1166.1

TOTAL ESTIMATED QUANTITIES

509.5100.S	POLYMER OVERLAY	1,140 S.Y.
* 502.0100	CONCRETE MASONRY BRIDGES	1 C.Y.
509.1200	CURB REPAIR	5 L.F.
509.0301	PREPARATION DECKS TYPE 1	10 S.Y.
509.0302	PREPARATION DECKS TYPE 2	4 S.Y.

BID ITEM NUMBER	BID ITEMS	UNIT	PIER 1	PIER 2	PIER 3	TOTAL
SPV.0035	SCOUR REPAIR GROUT	C.Y.	1	1	1	3
SPV.0035	SCOUR REPAIR, GROUT BAGS	C.Y.	6	6	3	15
SPV.0035	SCOUR REPAIR, GROUT MATS 4"	C.Y.	22	22	22	66
SPV.0035	UNDERWATER EXCAVATION FOR STRUCTURES BRIDGES B-37-280	C.Y.	—	—	31	31

* BID ITEM INCLUDES CONCRETE FOR: CURB REPAIR, PREPARATION DECKS TYPE 1, PREPARATION DECKS TYPE 2.


LOCATIONS MARKED BY FIELD ENGINEER.

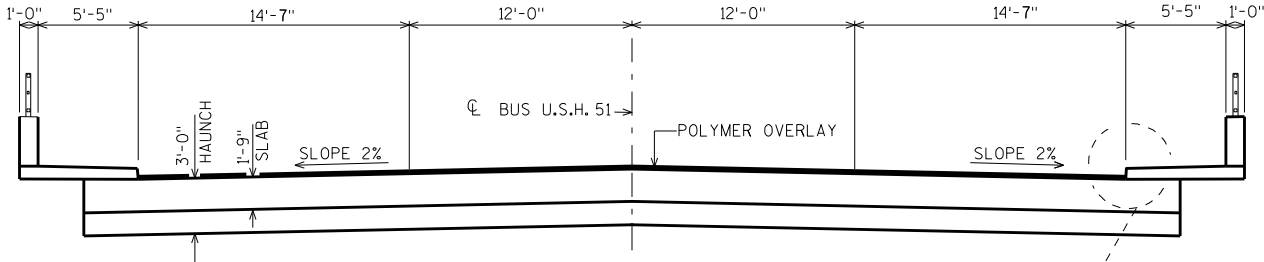
LIST OF DRAWINGS

- POLYMER OVERLAY
- SCOUR REPAIR
- SCOUR REPAIR DETAILS

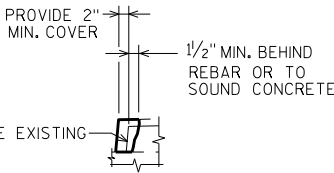
STRUCTURE DESIGN CONTACT:

ANTHONY P. LANDINI (608) 266-7818
NAJOUA KSONTINI (608) 266-2657

NO.	DATE	REVISION	BY
<div><div><div>Plans Prepared By WISDOT BUREAU OF STRUCTURES</div></div><div>ACCEPTED <i>William C. Diehn</i> 05/06/13 CHIEF STRUCTURES DESIGN ENGINEER DATE</div></div>			
STRUCTURE B-37-280			
BUSINESS U.S.H. 51 OVER EAU CLAIRE RIV			
COUNTY	MARATHON	TOWN/CITY/VILLAGE	SCHOFIELD
DESIGN SPEC. AASHTO LRFD DESIGN SPEC. 5th EDITION			
DESIGNED BY	APL	DESIGN CK'D.	DRAWN BY CF PLANS CK'D. APL
POLYMER OVERLAY			SHEET 1 OF 3

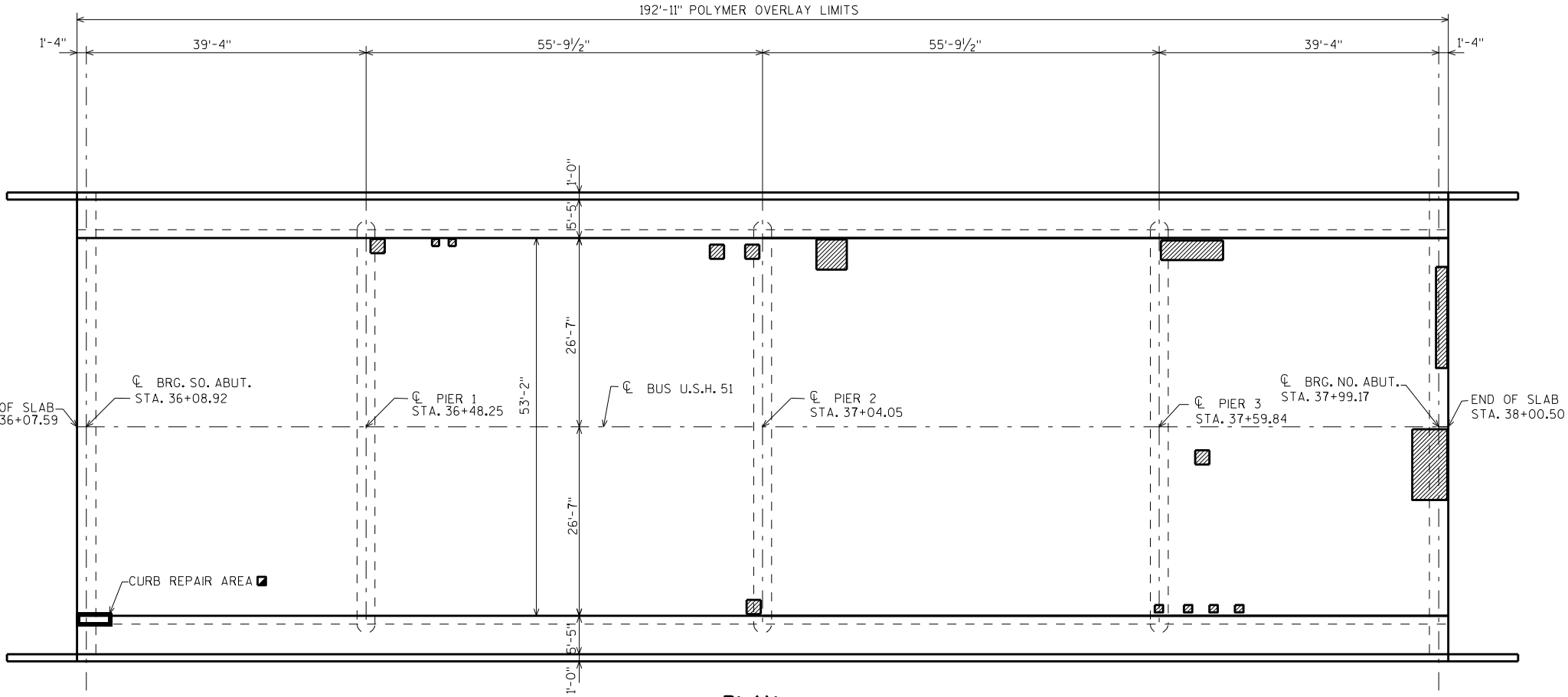


CROSS SECTION THRU ROADWAY
(LOOKING NORTH)



CURB REPAIR DETAIL

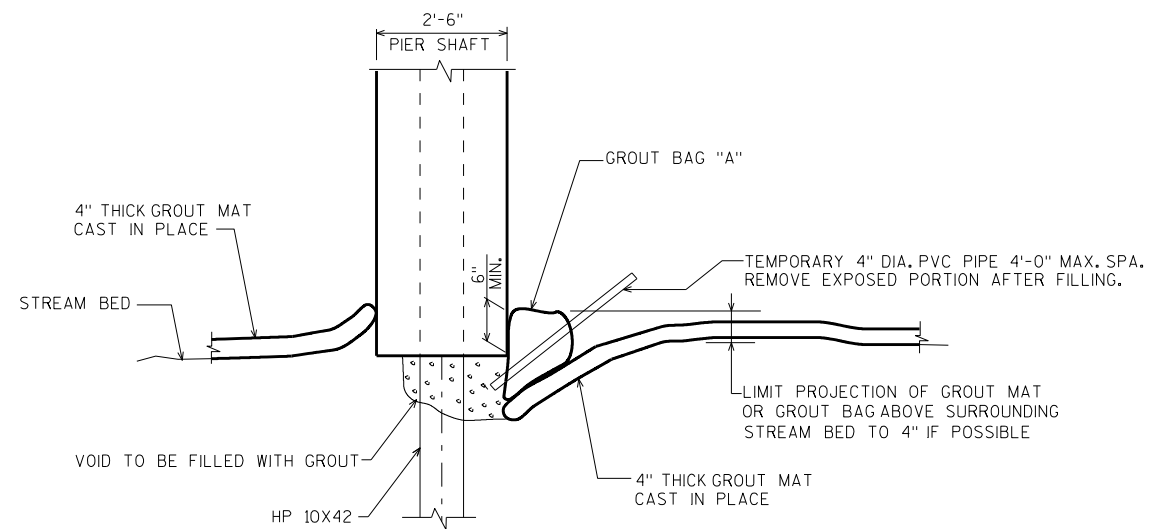
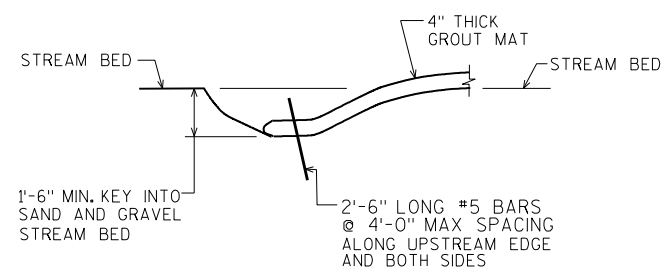
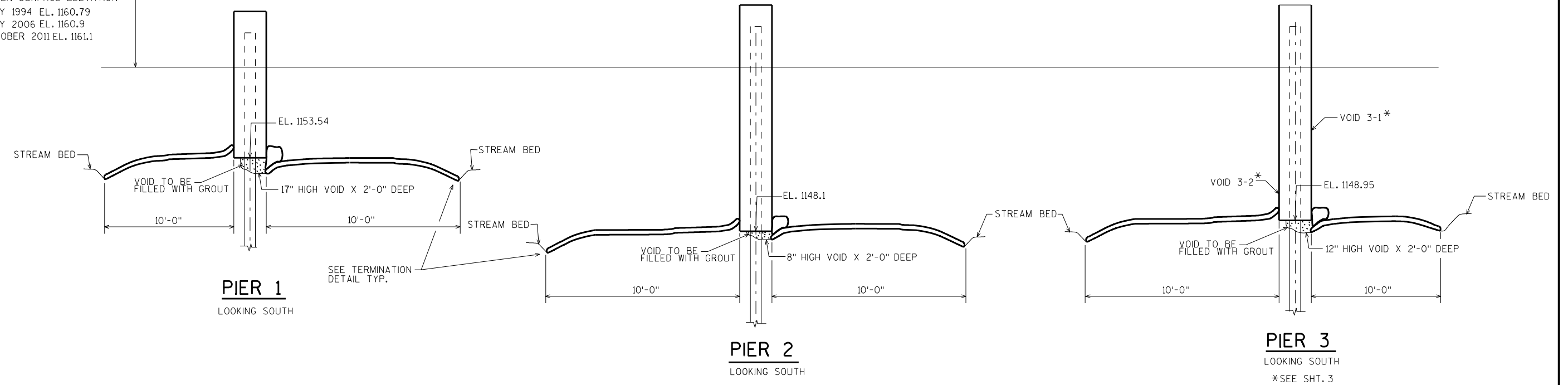
EAU CLAIRE RIVER



PLAN
(4 SPAN HAUNCHED SLAB)

APPROXIMATE AREAS OF DECK REPAIR

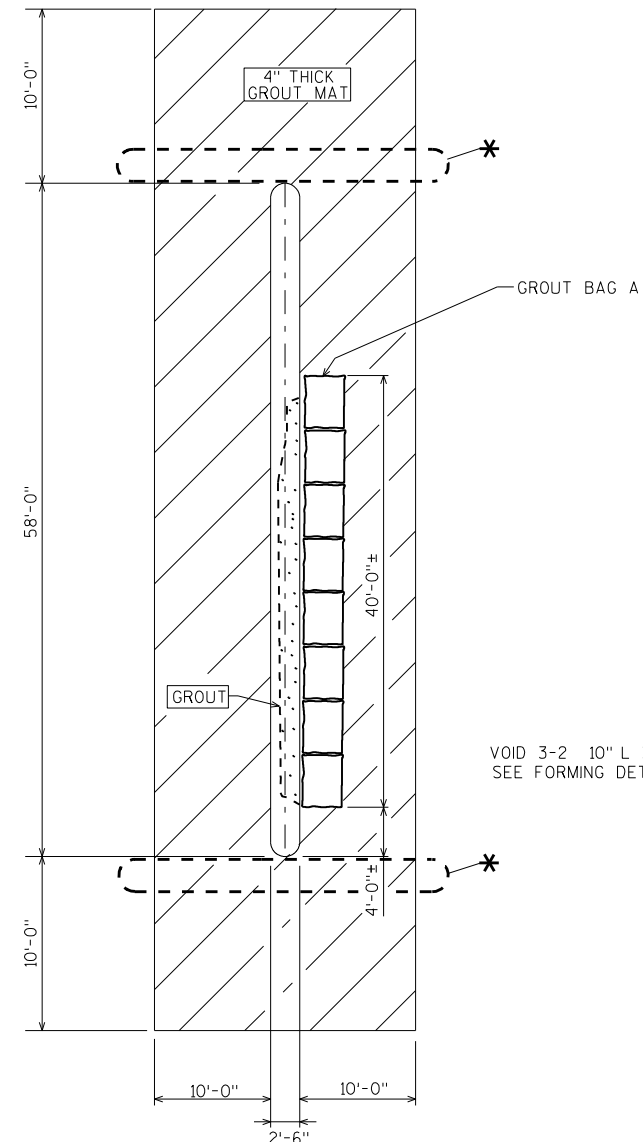
WATER SURFACE ELEVATION
JULY 1994 EL. 1160.79
JULY 2006 EL. 1160.9
OCTOBER 2011 EL. 1161.1



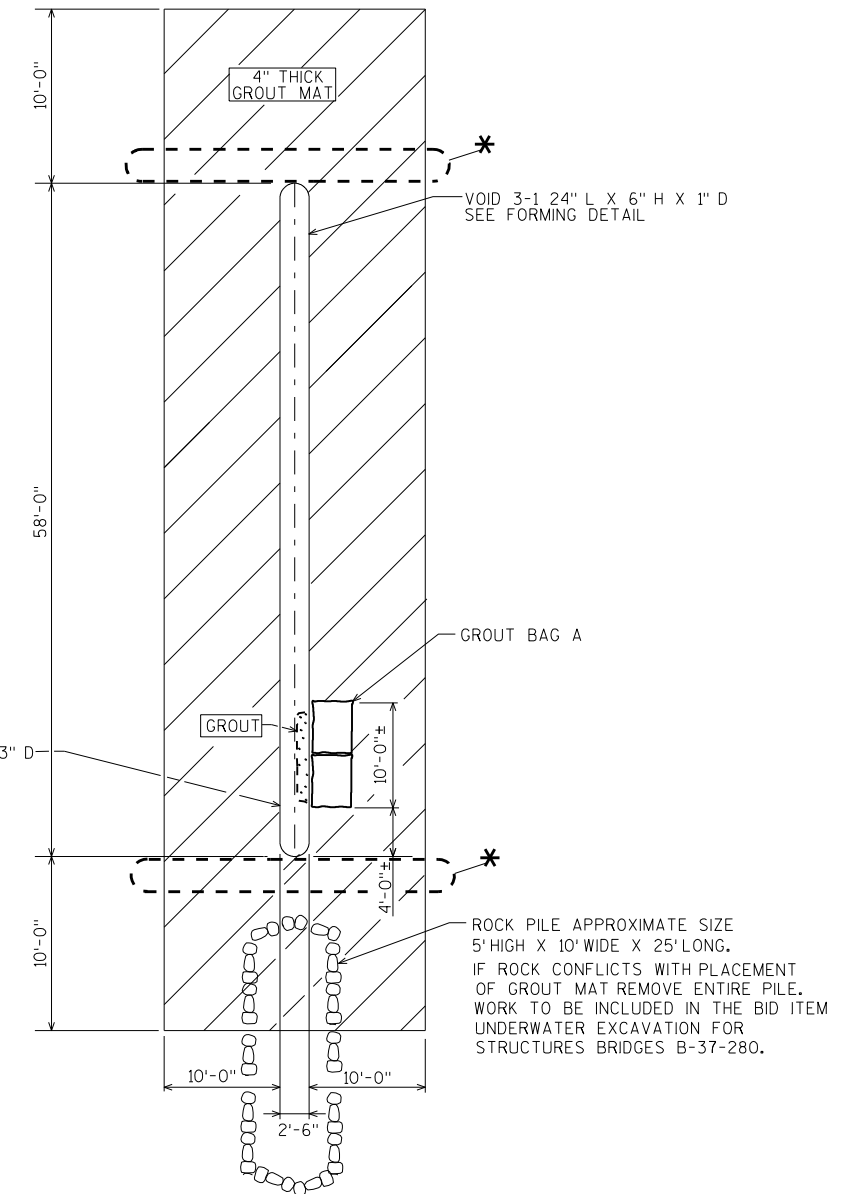
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-37-280			
DRAWN BY CF		PLANS CK'D. APL	
SCOUR REPAIR		SHEET 2	



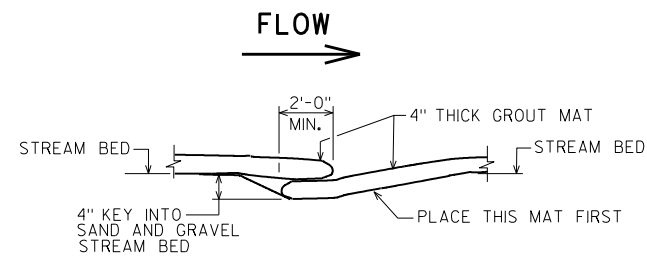
PLAN PIER 1



PLAN PIER 2

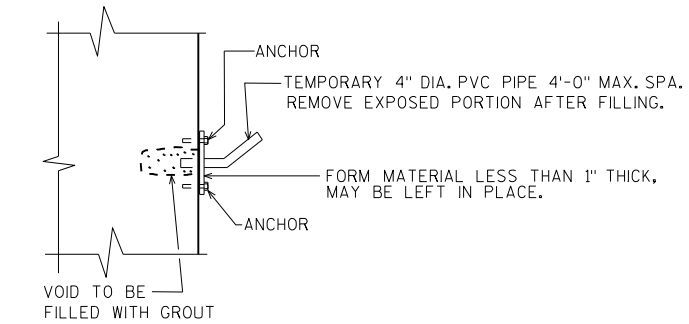


PLAN PIER 3



*ALTERNATE JOINING DETAIL

INSTEAD OF SEWING OR ZIPPERING,
ADJACENT MATS MAY BE OVERLAPPED AT
SHOWN LOCATIONS ONLY.
ALL MATERIALS AND WORK IN BOTTOM OVERLAP IS
CONSIDERED INCIDENTAL TO BID ITEM,
SCOUR REPAIR, GROUT MATS 4".



FORMING DETAIL


NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-37-280			
		DRAWN BY	CF PLANS CK'D. APL
SCOUR REPAIR DETAILS		SHEET 3	

DESIGN RATING: HS-20
INVENTORY RATING: HS-30
OPERATIONAL RATING: HS-51
MAXIMUM STANDARD PERMIT VEHICLE LOAD = 250 (KIPS)

DIMENSIONS SHOWN ON THE PLANS ARE BASED
ON THE ORIGINAL STRUCTURE PLANS

509.5100.S POLYMER OVERLAY-----595 SY.



NO.		DATE		REVISION		BY	
		Plans Prepared By		WISDOT BUREAU OF STRUCTURES			
		<i>William C. Diehr</i> ^{NK}		<div style="border: 2px solid red; padding: 2px;">05/06/13</div>			
		ACCEPTED		CHIEF STRUCTURES DESIGN ENGINEER		DATE	
STRUCTURE B-49-67							
BUSINESS U.S.H. 51 OVER PLOVER RIVER							
COUNTY		PORTAGE		TOWN/CITY/VILLAGE		WHITING	
DESIGN SPEC. AASHTO' STD. SPEC. 1979				LOAD		HS-20	
DESIGNED BY		DESIGN CK'D. <u> </u>		DRAWN BY		PLANS CK'D. APL	
POLYMER OVERLAY				SHEET 1 OF 1			
				(Empty space for notes or additional information)			

Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

<http://www.dot.wisconsin.gov>