UTILITY WORKSHEET **APPROVED** Wisconsin Department of Transportation

Utility Company Name Wisconsin Public Service Corporation - Electricity	**PLEASE RETURN THIS WORKSHEET BY** January 29, 2021
Project Description Design Project ID: 9210-19-00 Construction Project ID: 9210-19-71 W MASON ST, CITY OF GREEN BAY BEAVER DAM CREEK BRIDGE STH 32, Brown County	**RETURN TO** Becky Reese Division of Transportation System Development Northeast Region 944 Vanderperren Way Green Bay WI 54304

1. Describe your proposed relocation plan for the above project, as requested in the enclosed letter, using highway stationing whenever possible. Attach extra sheets if needed.

   WPS has reviewed the work plans for conflicts with WPS electric facilities. There are overhead electric facilities near the work site and highlighted on the submitted work plan. There are no anticipated conflicts identified.

2. Conflicting utility facilities will need to be relocated prior to construction. If this is not feasible, provide an explanation and an indication of what work will require coordination with the highway contractor during construction.

   N/A

3. Anticipated Start Date

   N/A

4. Estimated construction time required (In working days)

   N/A

5. List the approvals required and the expected time schedule to obtain those approvals.

   N/A

6. Include a list of the real estate parcels that the Wisconsin Department of Transportation (DOT) must have acquired to enable your company to complete the necessary facility installations and relocations prior to construction.

   N/A

7. Review the enclosed plans for the above project. Are your facilities correct as shown? If not, list the errors. In some cases, it may be easier to return a marked up copy of the plan. **It is very important that your facilities are shown correctly because all construction field personnel will use this information. Uncorrected location errors could create construction delays or damage to utility facilities.**

   WPS electric facilities appear to be captured correctly on the plans.

8. Is this work dependent on work by other utilities? If so, which other utilities, and what time schedule has been coordinated with them?

   N/A

9. Please provide the name, address, and telephone number of the field contact person for this project, so that we may place this information on the highway plan

Name Robert Smith	
Address Wisconsin Public Service 2850 S Ashland ave.	
City, State, ZIP Code Green Bay, WI 54304	
Area Code - Telephone Number 920-617-5284	Area Code - Telephone Number (Mobile) 715-622-0037
E-mail Address Robert.smith@wisconsinpublicservice.com	

10. List any other relevant information that may impact the ultimate goal of preventing construction delay due to uncertain scheduling of utility facility relocations.

    N/A

11.

Yes	No	
☐	⃠	Do you have any facilities that are no longer in use but have been left in place in the project area? If "Yes", approximately where are the facilities located and what type and size of facility is involved?
☐	⃠	Does the line have any remaining product?
☐	⃠	Does the line have any asbestos wrap or any other hazardous materials associated with it?
☐	⃠	Does any part of the line conflict directly with the proposed highway project? If so, what arrangements have been made to remove those portions? This should be mentioned as part of your work plan in question number 1 on this form.
☐	⃠	Is there any reason the highway contractor cannot remove portions of the line left in place?

If you answered "Yes" to any of the questions above, please attach additional pages.

Preparer Area Code – Telephone #, Ext.	Preparer E-Mail Address	
920-617-5284	Robert.smith@wisconsinpublicservice.com	
	ROBERT SMITH	12/03/2020
	(Name of Person Who Prepared this Worksheet) (If completed electronically, Brush Script Font)	(Date)

NOTE: DOT will be sending to you a Work Plan Approval letter and a Start Work Notice after we complete the review of your Work Plan.

PROJECT ID: **9210-19-71**

WITH: N/A

COUNTY: **BROWN**

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 =

N

DESIGN DESIGNATION

A.A.D.T.	=
A.A.D.T.	=
D.H.V.	=
D.D.	=
T.	=
DESIGN SPEED	=
ESALS	=

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 (300'EB')
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE

- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES

- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

W MASON ST, CITY OF GREEN BAY

BEAVER DAM CREEK BR

STH 32

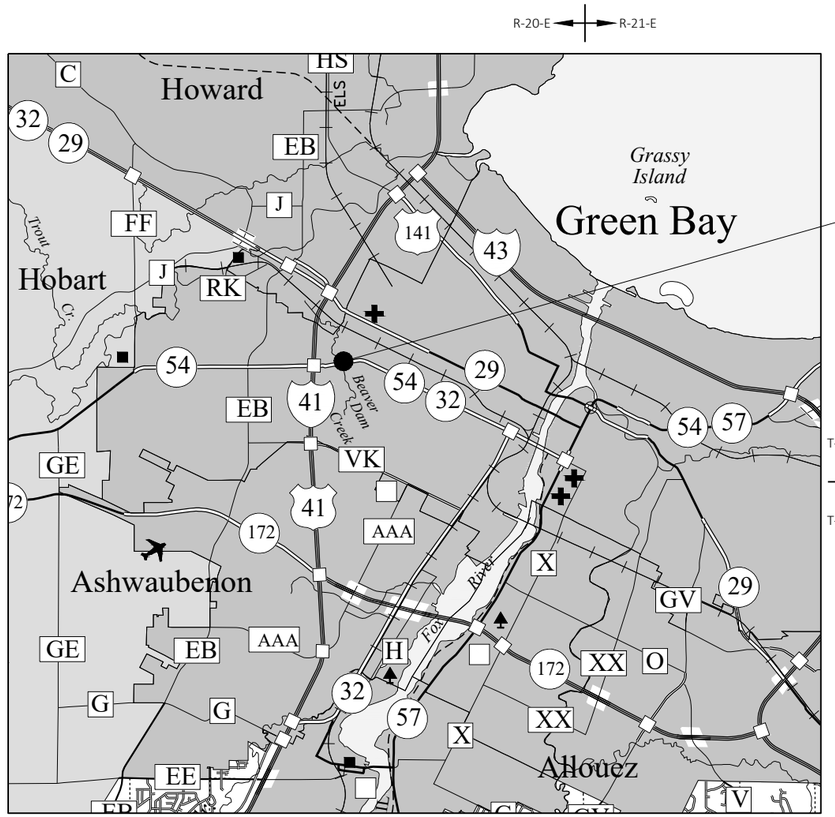
BROWN COUNTY

STATE PROJECT NUMBER
9210-19-71

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
9210-19-71		

PROJECT PLAN
FOR
DESIGN OF UTILITY FACILITY ALTERATIONS OR RELOCATIONS

DATE: 11/16/2020



STRUCTURE B-5-284
STH 32 OVER BEAVER DAM CREEK

WPS ELECTRIC REVIEW
12/3/2020

LAYOUT

SCALE 0 2 MI

TOTAL NET LENGTH OF CENTERLINE =

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), BROWN COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	NE REGION
Designer	K. BRADLEY
Project Manager	A. FULCER
Regional Examiner	REGIONAL EXAMINER
Regional Supervisor	D. SEGERSTROM

APPROVED FOR THE DEPARTMENT

DATE: _____ _____ (Signature)

PRE_1

E

FILE NAME : C:\CIVIL 3D PROJECTS\92101900\SHEETSPLAN\010101-TI.DWG PLOT DATE : 10/27/2020 3:31 PM PLOT BY : SMITH, JENNIFER B PLOT NAME :

2

GENERAL NOTES

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

THE EXACT CONSTRUCTION LIMITS AND LOCATIONS OF ALL ENTRANCES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES

TYPICAL SECTIONS

CONSTRUCTION DETAILS

PLAN DETAILS

TRAFFIC CONTROL

DETOUR PLAN

ALIGNMENT PLAN

DNR LIASION

JIM DOPERALSKI JR.
NORTHEAST REGION
2984 SHAWANO AVE
GREEN BAY, WI 54313
(920) 412-0165
james.doperalski@wisconsin.gov

BROWN COUNTY HIGHWAY COMMISSIONER

PAUL FONTECCHIO
BROWN COUNTY HIGHWAY DEPT.
2198 GLENDALE AVE.
GREEN BAY, WI 54303
(920) 492-4925
bc_highway@co.brown.wi.us

NE REGION SURVEY COORDINATOR

CORMAC MCINNIS, RLS
944 VANDERPERREN WAY
GREEN BAY, WI 54304
(920)492-5638
cormac.mcinnis@dot.wi.gov

NE REGION DESIGN PROJECT MANAGER

ANDY FULCER, PE
944 VANDERPERREN WAY
GREEN BAY, WI 54303
(920)362-6126
andy.fulcer@dot.wi.gov

UTILITIES CONTACTS

COMMUNICATIONS

COMPANY NAME
CONTACT NAME
ADDRESS
CITY, STATE, ZIP
PHONE:
EMAIL:

2

RUNOFF COEFFICIENT TABLE

	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP-TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE-TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:												
ASPHALT	.70 - .95											
CONCRETE	.80 - .95											
BRICK	.70 - .80											
DRIVES, WALKS	.75 - .85											
ROOFS	.75 - .95											
GRAVEL ROADS, SHOULDERS	.40 - .60											

TOTAL PROJECT AREA = _____ ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = _____ACRES

DIGGERS HOTLINE
Dial 811 or (800)242-8511
www.DiggersHotline.com

EMERGENCY CONTACT NUMBERS FOR WISCONSIN POWER AND LIGHT COMPANY

ELECTRIC 24 HOUR EMERGENCY SERVICE: 1-800-862-6261
GAS 24 HOUR EMERGENCY SERVICE: 1-800-862-6263

EMERGENCY CONTACT NUMBERS FOR WISCONSIN PUBLIC SERVICE

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

EMERGENCY CONTACT NUMBERS FOR WE ENERGIES

ELECTRIC 24 HOUR EMERGENCY SERVICE: 1-800-662-4797
GAS 24 HOUR EMERGENCY SERVICE: 1-800-261-5325

2

2

N

S TAYLOR STREET

BEAVER DAM CREEK

STRUCTURE B-5-284
STH 32 OVER BEAVER DAM CREEK

BENTWOOD DR

65'WB'

65'EB'

60'WB'

60'EB'

55'WB'

55'EB'

FRONTAGE RD

STH 32 WB/MASON ST

STH 32 EB/MASON ST

BEAVER DAM DR

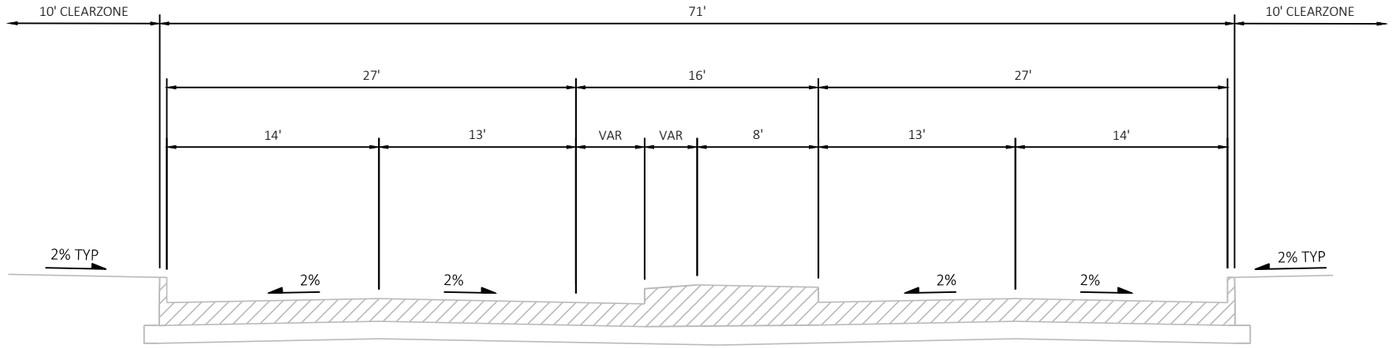
PROJECT NO: 9210-19-71	HWY: STH 32	COUNTY: BROWN	PROJECT OVERVIEW	SHEET E

PRE_3

FILE NAME : C:\CIVIL 3D PROJECTS\92101900\SHEETSPLAN\020201-PO.DWG
LAYOUT NAME - 020201-po

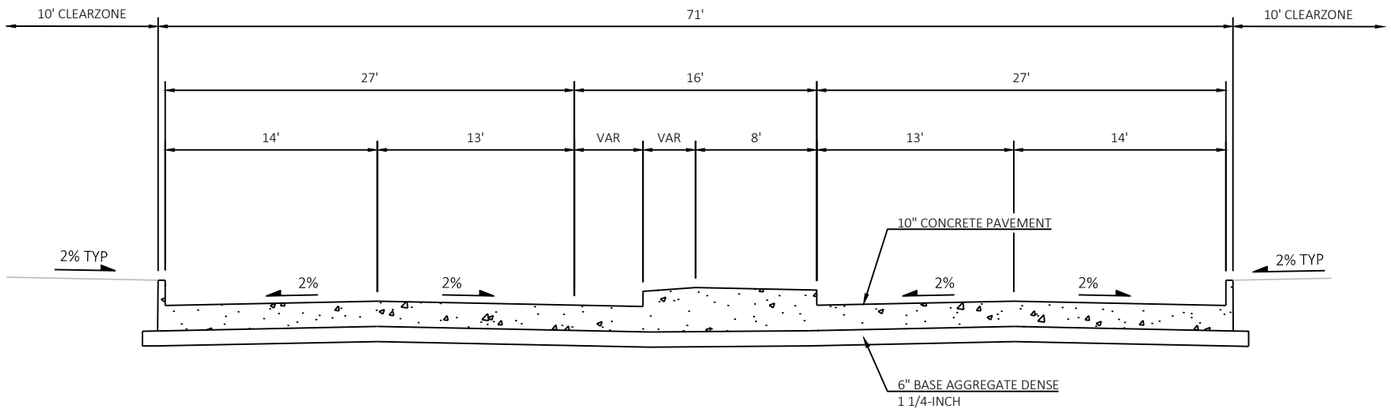
PLOT DATE : 10/27/2020 3:44 PM PLOT BY : SMITH, JENNIFER B PLOT NAME : PLOT SCALE : 1 IN: 150 FT

WISDOT/CADDS SHEET 42



*PAVEMENT DEPTHS AND MATERIALS UNKNOWN

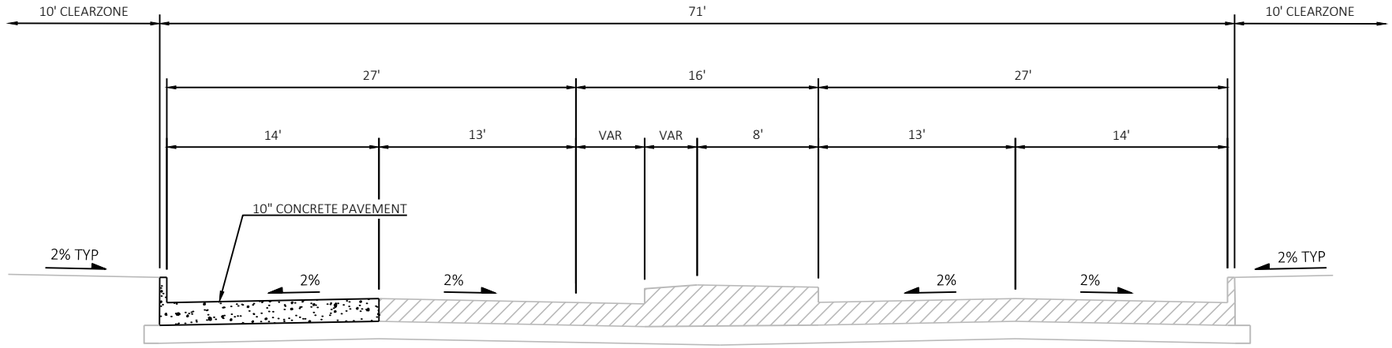
*TYPICAL EXISTING SECTION
STA 57'WB'+16 TO STA 57'WB'+49
STA 57'EB'+16 TO STA 57'EB'+36



TYPICAL FINISHED SECTION
STA 57'WB'+16 TO STA 57'WB'+36
STA 57'EB'+16 TO STA 57'EB'+36

PROJECT NO: 9210-19-71	HWY: STH 32	COUNTY: BROWN	TYPICAL SECTIONS	SHEET E

PRE_4



*PAVEMENT DEPTHS AND MATERIALS UNKNOWN

*TYPICAL FINISHED SECTION

STA 57'WB'+36 TO STA 57'WB'+49

2

PROJECT NO: 9210-19-71	HWY: STH 32	COUNTY: BROWN	TYPICAL SECTIONS	SHEET PRE_5 E

FILE NAME : C:\CIVIL 3D PROJECTS\92101900\SHEETSPLAN\020301-TS.DWG
LAYOUT NAME - 020302-ts
PLOT DATE : 10/29/2020 7:55 AM
PLOT BY : SMITH, JENNIFER B
PLOT NAME :
PLOT SCALE : 1IN:10 FT
WISDOT/CADDS SHEET 42

2

CONCRETE PAVEMENT APPROACH SLAB

DECK OVERLAY

B-05-0284

MH 1 STA 62'WB'+66 23.7' LT
MANHOLES 4-J

REPLACE 13' SLAB FOR RIGHT LANE

PC: 60+49.10

PT: 60+52.56

PC: 65+66.00

STH 32 WB/MASON ST

60'WB'+00 61'WB'+00 62'WB'+00 63'WB'+00 64'WB'+00 65'WB'+00

1.3 STA 62'WB'+44 16.9' RT
INLETS 2x3-H

1.2 STA 57 'EB'+18 12.1' LT
INLETS 2x3-H

55'EB'+00 56'EB'+00 57'EB'+00 58'EB'+00 59'EB'+00 60'EB'+00

STH 32 EB/MASON ST

REPAIR CURB

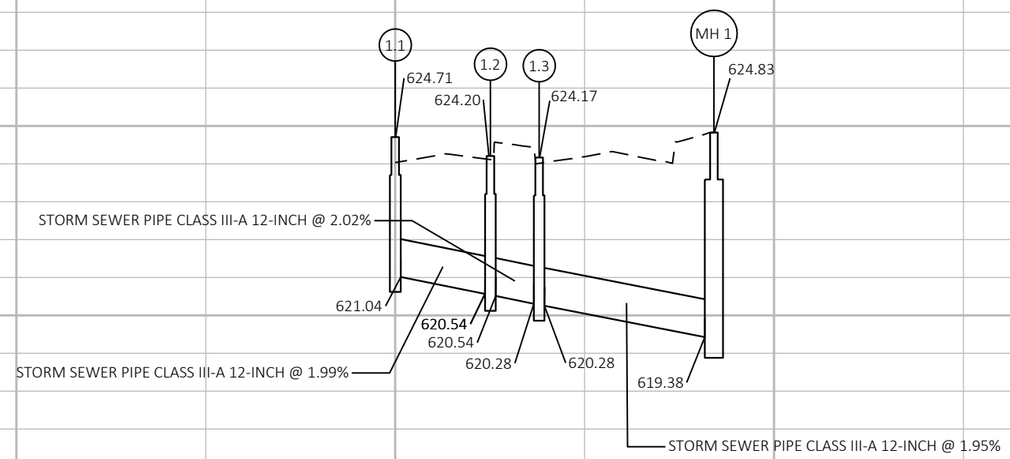
1.1 STA 57'EB'+18 13.0' RT
INLETS 2x3-H

PI: 55+07.14

N

LEGEND

- INLET PROTECTION TYPE C
- SILT FENCE
- EROSION MAT URBAN CLASS I TYPE B



PROJECT NO: 9210-19-71	HWY: STH 32	COUNTY: BROWN	STORM SEWER	SHEET E

PRE_6

FILE NAME : C:\CIVIL 3D PROJECTS\92101900\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 022501-ss

PLOT DATE : 11/3/2020 4:00 PM PLOT BY : MARTIN, THOMAS S PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

HWY 32-54/MASON ST
CLOSED
EAST OF HWY 41
FOLLOW DETOUR
FMS
144" X 72"
3 4

DETOUR
M04-8
36" X 18"
32
M1-6
36" X 36"
54
M1-6
36" X 36"
M06-1
30" X 30"
5

DETOUR
M04-8
36" X 18"
32
M1-6
36" X 36"
54
M1-6
36" X 36"
M06-2
30" X 30"
7

SOUTH EAST
32 54
Mason St
COVER
16

M3-3 M3-2
24" X 12" 24" X 12"
M1-6 M1-6
24" X 24" 24" X 24"
SOUTH EAST
32 54
Mason St
NORTH NORTH
41 32
Marinette
COVER
17

DETOUR
M04-8
24" X 12"
32
M1-6
24" X 24"
54
M1-6
24" X 24"
M05-1L
21" X 21"
18

32
M1-6
24" X 24"
54
M1-6
24" X 24"
DETOUR AHEAD
W20-2A
48" X 48"
21 22

54

HWY 32-54/MASON ST
CLOSED AHEAD
FOLLOW DETOUR
FMS
90" X 36"
19 20

EXIT 168 B-C
NORTH
29 32
Wausau
3/4 MILE
EXIT 168 A
WEST SOUTH
54 32
Mason St
1/2 MILE
EXIT ONLY
FMS
54" X 18"
COVER
27

EXIT 168 B-C
NORTH
29 32
Wausau
1/4 MILE
EXIT 168 A
WEST SOUTH
54 32
Mason St
EXIT ONLY
FMS
54" X 18"
COVER
27A

EXIT 168 A
SOUTH SOUTH WEST
41 32 54
Appleton Mason St
EXIT ONLY
FMS
54" X 18"
COVER
28

LARSEN RD

CD ROADWAY

CD ROADWAY

24

23
DETOUR
M04-8
24" X 12"
32
M1-6
24" X 24"
54
M1-6
24" X 24"
M06-2
21" X 21"

DETOUR
M04-8
24" X 12"
SOUTH
M3-3
24" X 12"
32
M1-6
24" X 24"

DETOUR
M04-8
24" X 12"
EAST
M3-2
24" X 12"
54
M1-6
24" X 24"

25
DETOUR
M04-8
24" X 12"
32
M1-6
24" X 24"
54
M1-6
24" X 24"
M05-2R
21" X 21"

LARSEN RD

26
DETOUR
M04-8
24" X 12"
32
M1-6
24" X 24"
54
M1-6
24" X 24"
M06-2
21" X 21"

1 2
32
M1-6
36" X 36"
54
M1-6
36" X 36"
DETOUR AHEAD
W20-2A
48" X 48"

6
DETOUR
M04-8
36" X 18"
32
M1-6
36" X 36"
54
M1-6
36" X 36"
M06-1
30" X 30"

8
COVER
SOUTH EAST
32 54
Mason St

DETOUR
M04-8
24" X 12"
32
M1-6
24" X 24"
54
M1-6
24" X 24"
M06-2
21" X 21"

9
BRIDGE OUT
1/4 MILE AHEAD
LOCAL TRAFFIC ONLY
R11-3B
60" X 30"
DETOUR
M4-9L
30" X 24"

10
COVER
NORTH NORTH
41 32
Mason St

13
BRIDGE OUT
1/4 MILE AHEAD
LOCAL TRAFFIC ONLY
R11-3B
60" X 30"

14
COVER
Mason St

15
COVER
WISCONSIN
32/54
J4-2

54
32

11
COVER
SOUTH EAST
32 54
Mason St

12
COVER
SOUTH EAST
32 54
Mason St
Taylor St

EXIT 168 C
NORTH
41
SOUTH EAST EAST
32 29 54
Shawano Ave
1/2 MILE
EXIT 168 B
WEST NORTH
29 32
Wausau
1/4 MILE
EXIT ONLY
FMS
66" X 18"
M1-6
36" X 36"
29
FMS
48" X 18"
M1-6
36" X 36"

EXIT 168 C
NORTH
41
SOUTH EAST EAST
32 29 54
Shawano Ave
1/4 MILE
EXIT 168 B
WEST NORTH
29 32
Wausau
EXIT ONLY
FMS
66" X 18"
M1-6
36" X 36"
30
FMS
48" X 18"
M1-6
36" X 36"

FMS
66" X 18"
M1-6
36" X 36"
31
FMS
48" X 18"
M1-6
36" X 36"
EXIT 168 C
SOUTH EAST EAST
32 29 54
Shawano Ave

LEGEND

(X) SIGN NUMBER, REFER TO MISCELLANEOUS QUANTITY SHEET

▲ PCMS (X) PORTABLE CHANGEABLE MESSAGE SIGN

SIGN MOUNTED ON TYPE III BARRICADE

POST MOUNTED SIGN

SHEET 1 OF 4

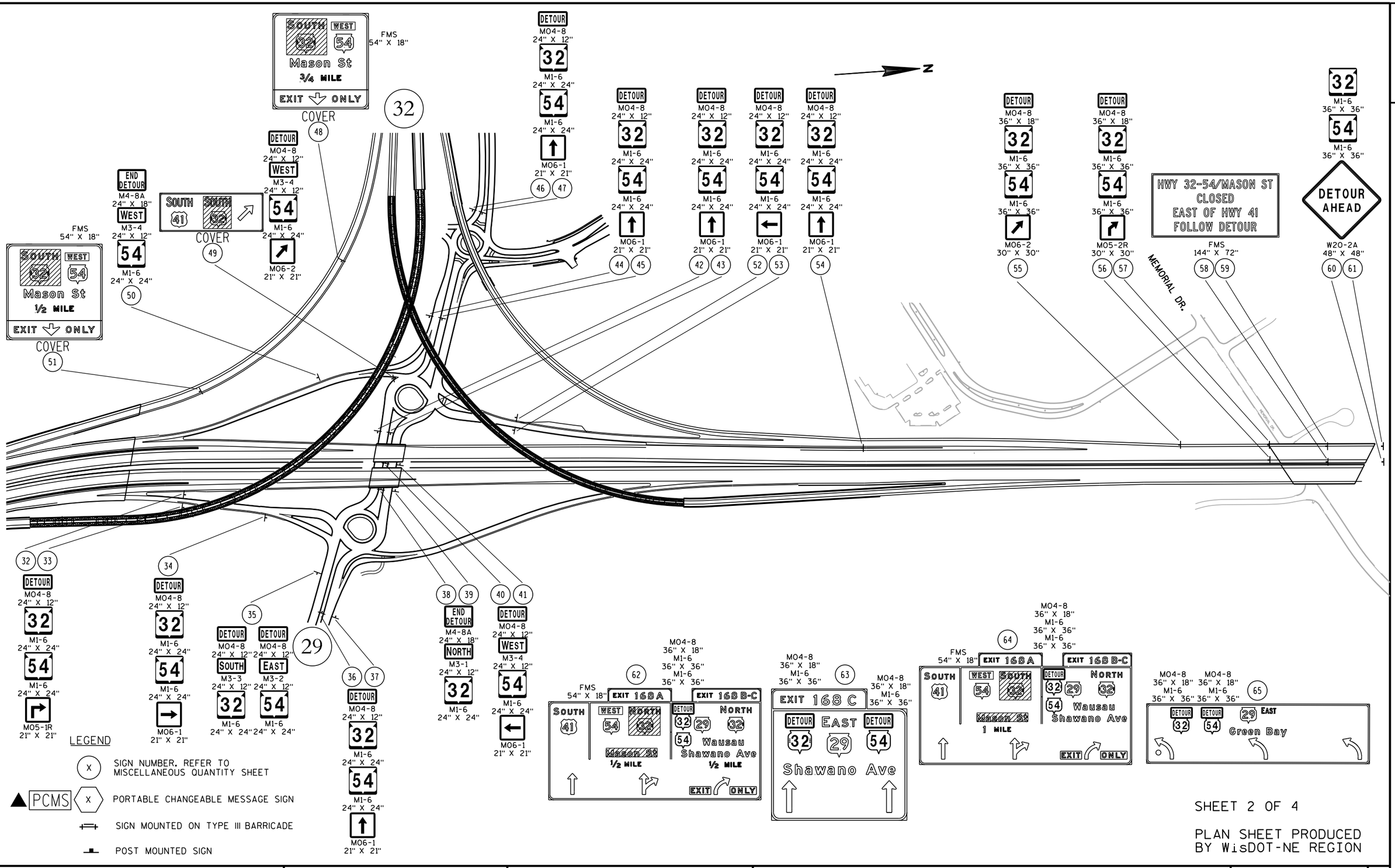
PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 9210-19-71	HWY: STH 32/54	COUNTY: BROWN	DETOUR SIGNING DETAIL	SHEET E

PRE_7

FILE NAME : N:\spo\traffic\A Work Zone\Detours\Brown County\STH 32-54\027001_dt.dgn PLOT DATE : 01-JUL-2019 13:31 PLOT BY : dotj1f PLOT NAME : PLOT SCALE : 1600:1

2



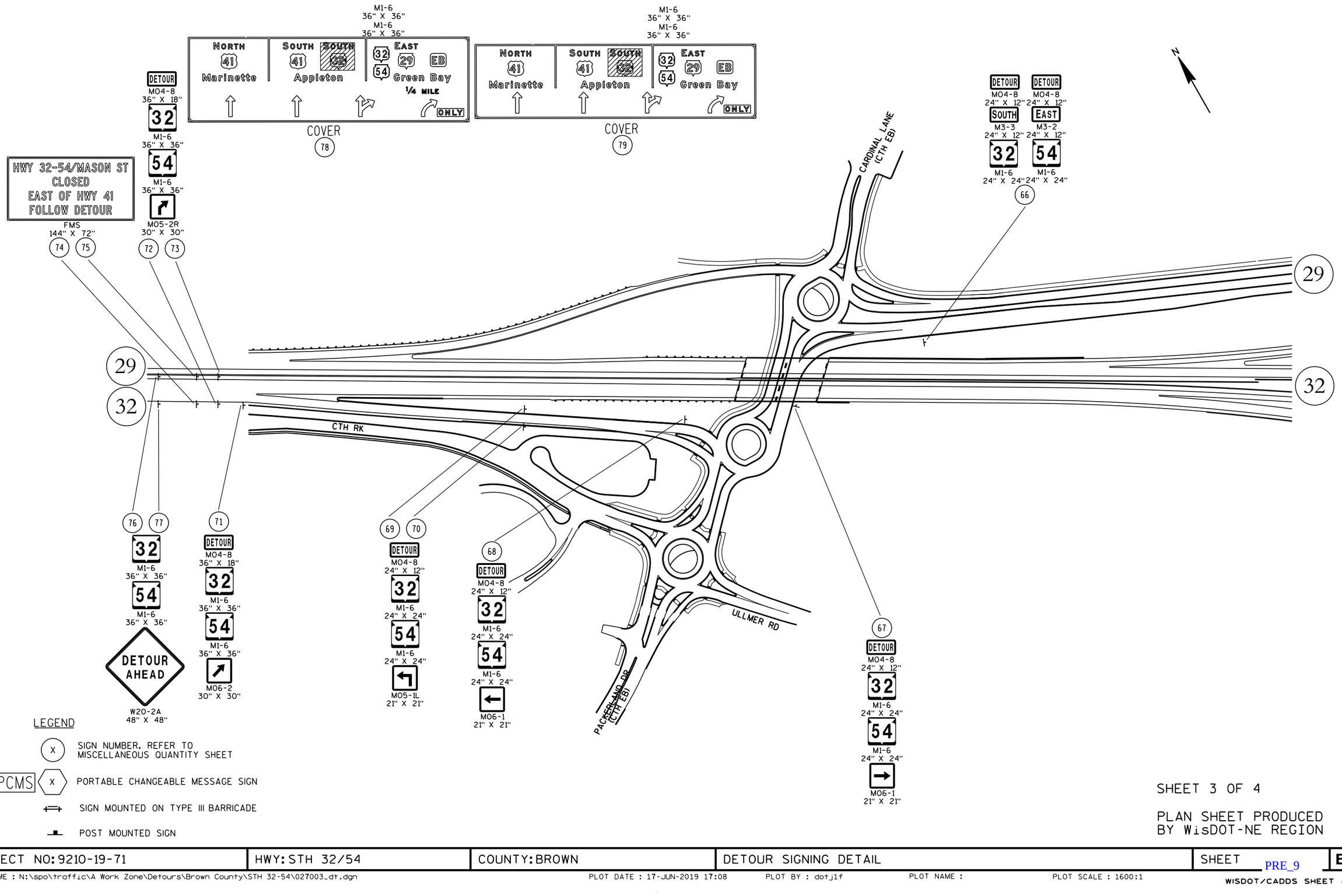
SHEET 2 OF 4

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 9210-19-71	HWY: STH 32/54	COUNTY: BROWN	DETOUR SIGNING DETAIL	SHEET E

PRE_8

2

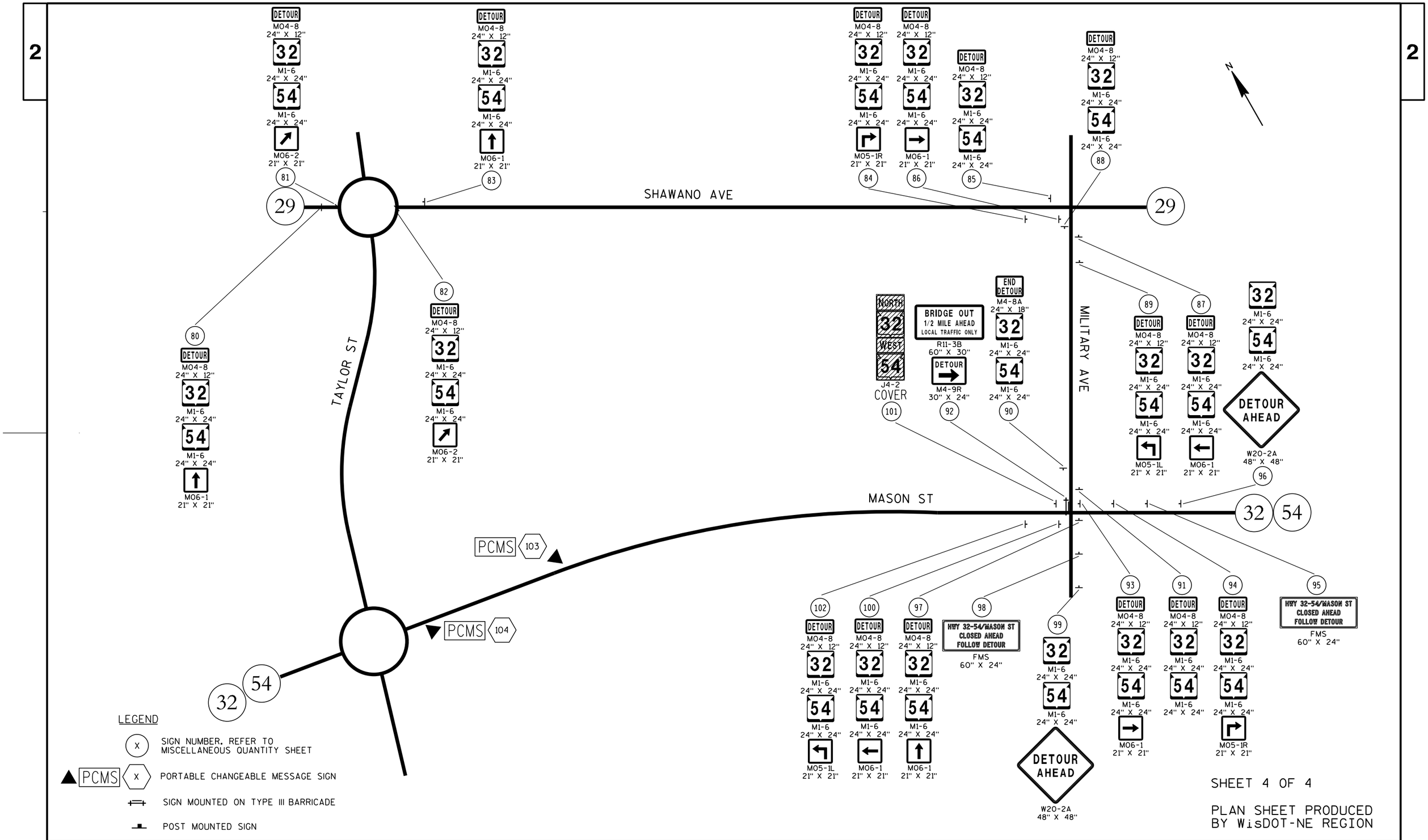


SHEET 3 OF 4

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 9210-19-71	HWY: STH 32/54	COUNTY: BROWN	DETOUR SIGNING DETAIL	SHEET E

PRE_9



PROJECT NO: 9210-19-71	HWY: STH 32/54	COUNTY: BROWN	DETOUR SIGNING DETAIL	SHEET E

PRE_10

FILE NAME : N:\spo\traffic\A Work Zone\Detours\Brown County\STH 32-54\027004_dt.dgn PLOT DATE : 17-JUN-2019 17:08 PLOT BY : dotj1f PLOT NAME : PLOT SCALE : 1600:1

WISDOT/CADDS SHEET 42

WPS STREET LIGHT WIRE

BEAVER DAM CREEK

SLOPE INTERCEPTS

CONSTRUCT A NEW 4' MANHOLE AT EXISTING 15-INCH STORM SEWER LINE

EXISTING R/W

DECK OVERLAY

REPLACE 13' SLAB FOR RIGHT LANE

80.0°

56'WB'+00

N81°25'35"E

57'WB'+00

58'WB'+00

STH 32 WB/MASON ST

STH 32'WB'/MASON ST R/L

27.1°

REPAIR CURB

CONCRETE PAVEMENT APPROACH SLAB

CONCRETE OVERLAY
B-05-0284

56'EB'+00

N81°25'16"E

57'EB'+00

58'EB'+00

STH 32 EB/MASON ST

STH 32 'EB'/MASON ST R/L

REPLACE EAST CONCRETE PAVEMENT APPROACH SLAB

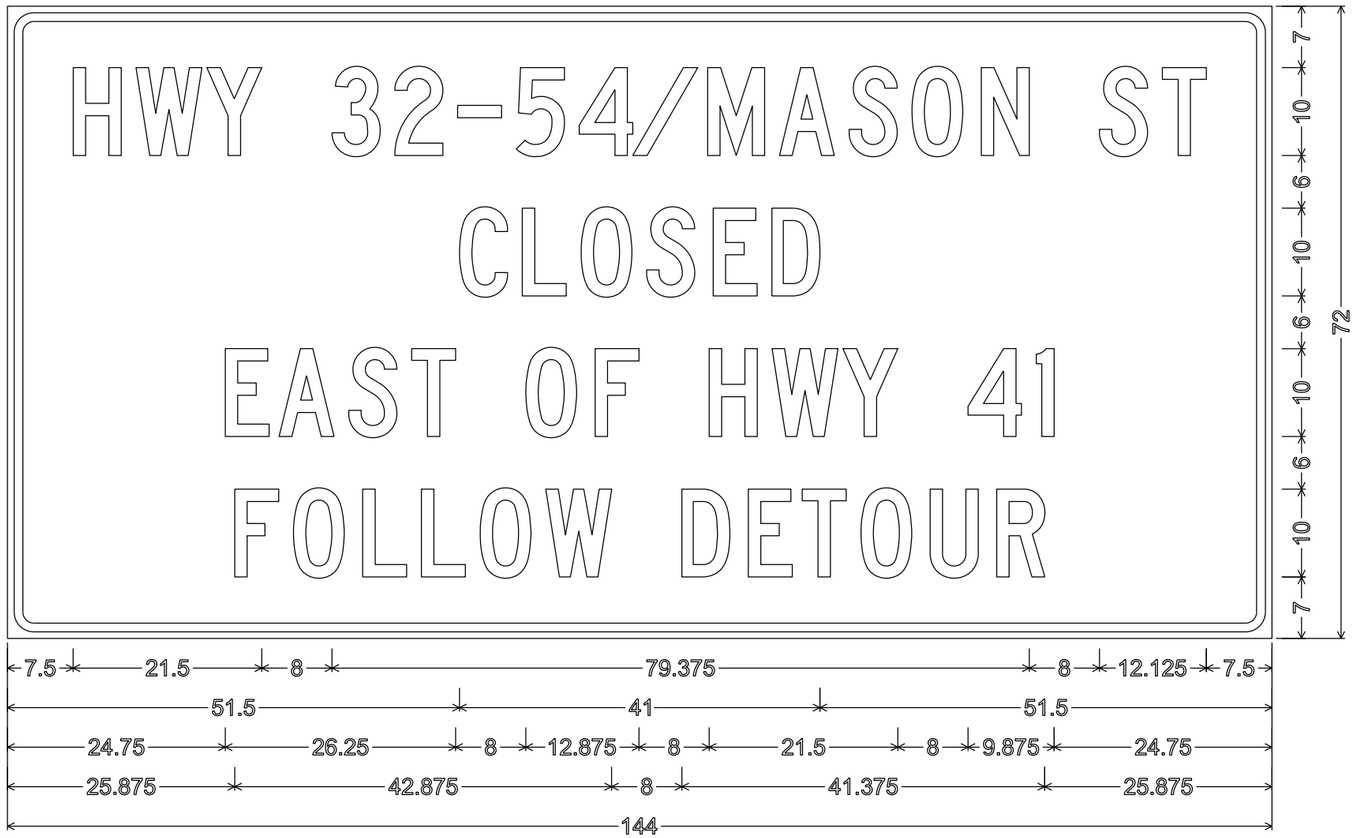
ADD STORM SEWER SYSTEM

WPS OVERHEAD ELECTRIC
24.9 KV

BEAVER DAM CREEK

EXISTING R/W

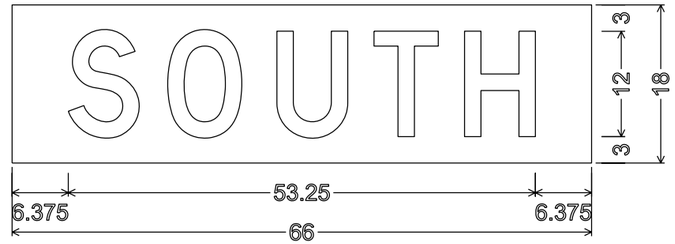
PROJECT NO: 9210-19-71	HWY: STH 32	COUNTY: BROWN	PLAN	SHEET E



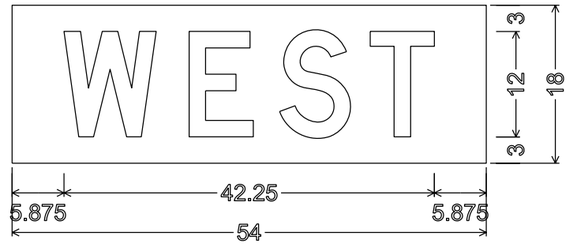
3.000" Radius, 1.000" Border, 0.750" Indent

NOTES

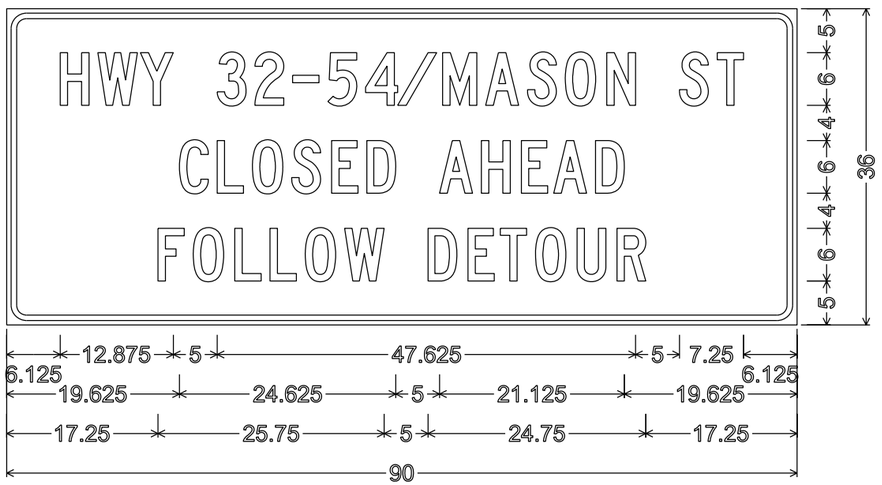
1. Fixed Message Type II Signs - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C except as noted



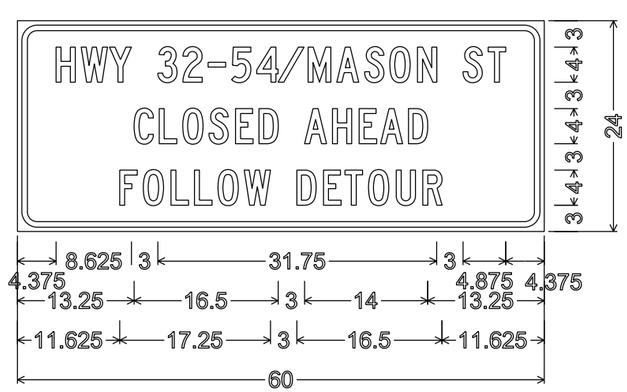
No border,
"SOUTH" D



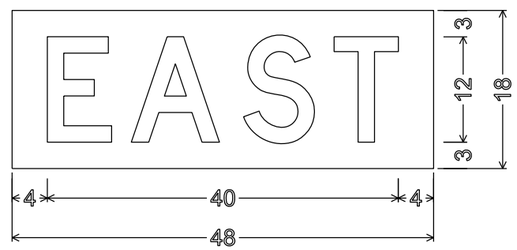
No border,
"WEST" D



2.250" Radius, 0.625" Border, 0.500" Indent



2.250" Radius, 0.625" Border, 0.500" Indent



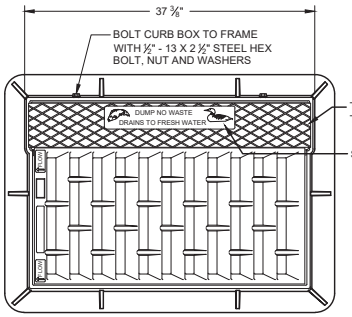
No border,
"EAST" D

7

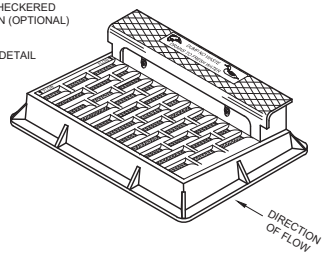
7

PROJECT NO: 9210-19-71	HWY: STH 32/54	COUNTY: BROWN	TEMPORARY SIGNING	SHEET N PRE_12	E

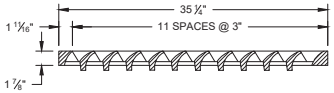
SDD 8a5-a Inlet Covers Type A, H, A-S, H-S and Z

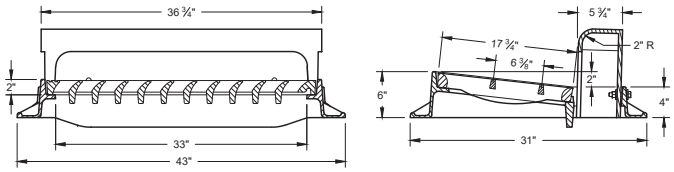


NOTE: EITHER CASTING IS ACCEPTABLE



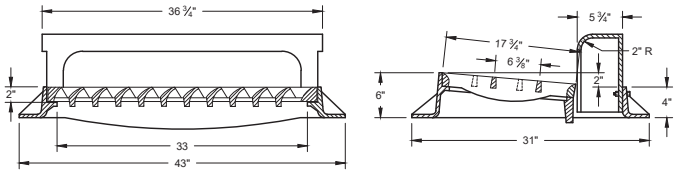
NOTE: CURB BOX HEIGHT ADJUSTABLE 6" - 9"

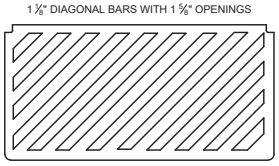




TYPE "H"

NOTE: EITHER CASTING IS ACCEPTABLE

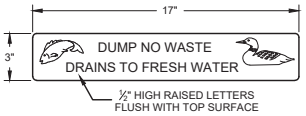




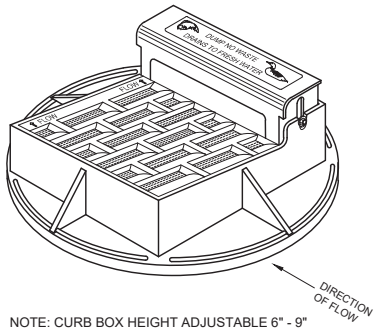
SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35" X 17 ¾" X 2")

(NOTED AS TYPE H-S ON DRAINAGE TABLE)

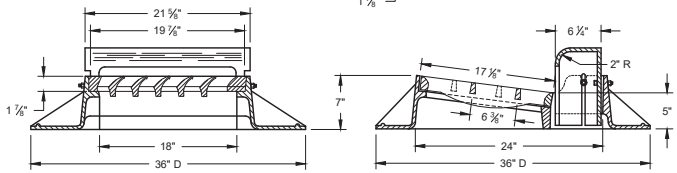


LOGO DETAIL

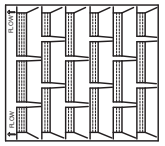


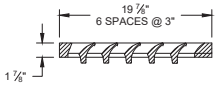
NOTE: CURB BOX HEIGHT ADJUSTABLE 6" - 9"

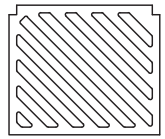
NOTE: EITHER CASTING IS ACCEPTABLE



TYPE "A"



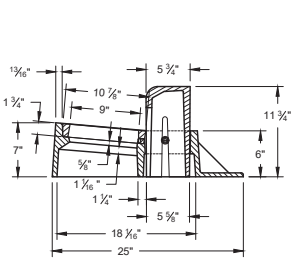


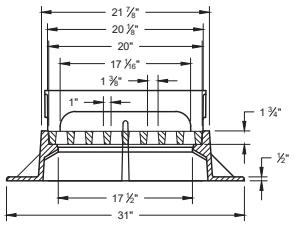


SPECIAL GRATE FOR TYPE "A" COVER

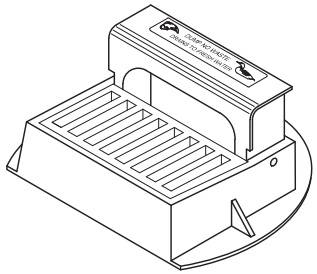
(MEASURES 19 ¾" X 17" X 1 ⅞")

(NOTED AS TYPE A-S ON DRAINAGE TABLE)





TYPE "Z"



GENERAL NOTES

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

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

INLET COVERS TYPE A, H, A-S, H-S & Z

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11-27-13
DATE

/S/ Jerry H. Zogg
APPROVING ENGINEER

FHWA

6

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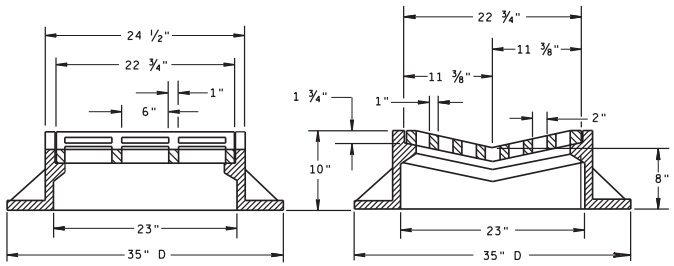
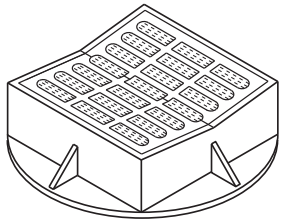
SDD 08A05-19a

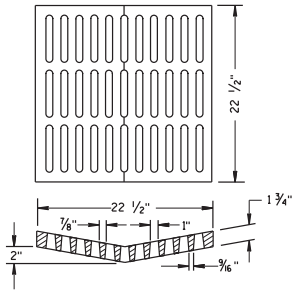
SDD 08A05-19a

SDD 8a5-b Inlet Covers Type B, B-A, C, MS, MS-A, and WM



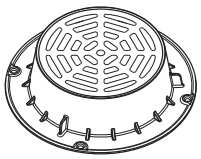


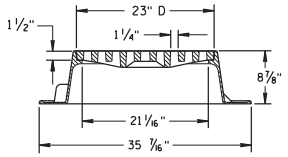
TYPE "B"

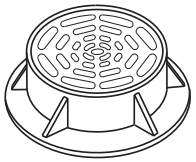


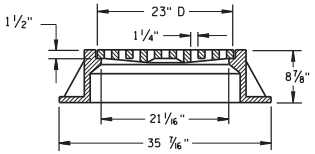
ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.
NOTED AS TYPE B-A ON THE DRAINAGE TABLE









TYPE "C"

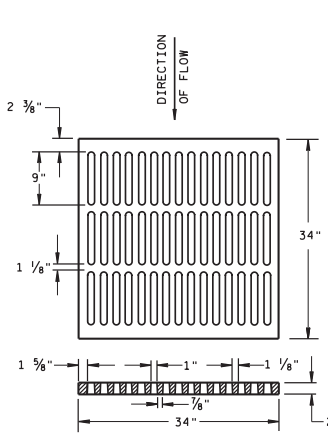
NOTE: EITHER CASTING IS ACCEPTABLE

GENERAL NOTES

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

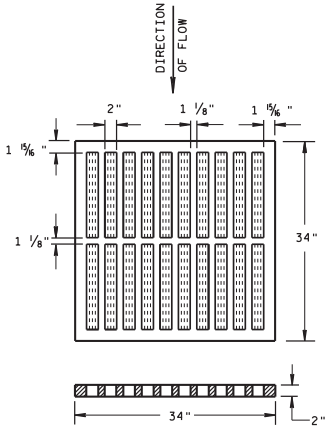
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



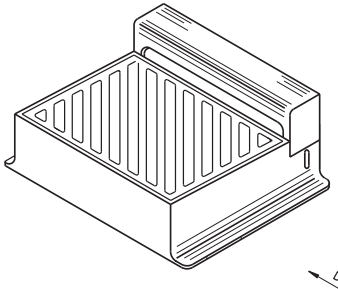
ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

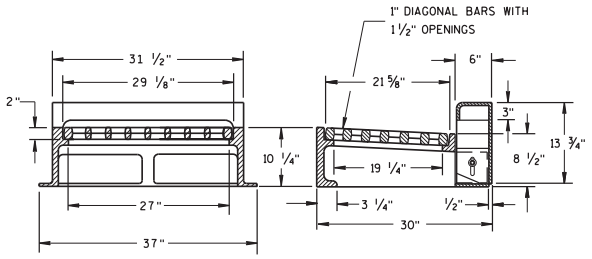


TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS
NOTED AS TYPE MS ON DRAINAGE TABLE



DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

INLET COVERS
TYPE B, B-A, C,
MS, MS-A, & WM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 A 5-19b

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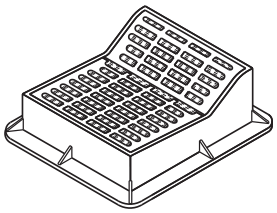
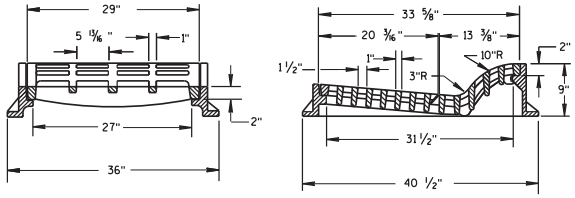
S.D.D. 8 A 5-19b

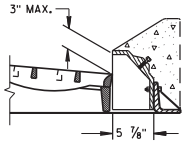
SDD 8a5-c Inlet Covers Type F, HM, HM-S, S, T, V, HM-GJ, and HM-GJ-S





TYPE "F"

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

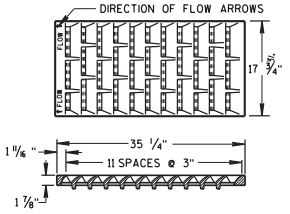
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

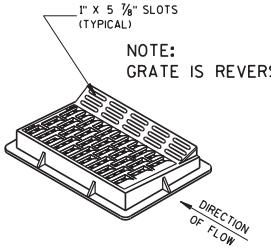
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

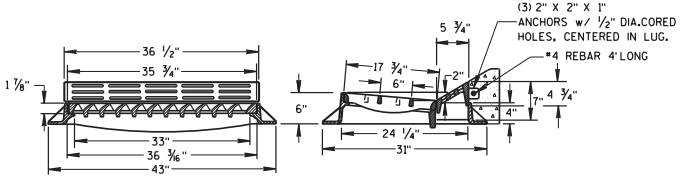
GENERAL NOTES

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

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.



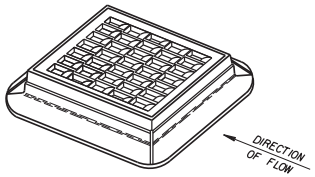


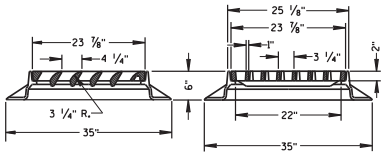


TYPE "HM"

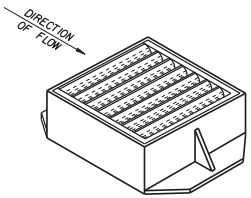
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

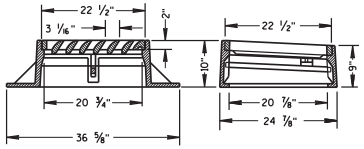
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



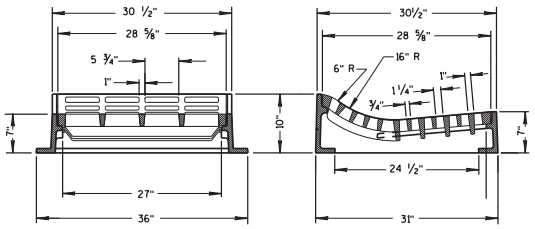


TYPE "S"



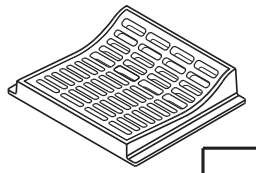


TYPE "V"



TYPE "T"

USE WITH TYPES R & T CONCRETE CURB & GUTTER, 36 INCH.



INLET COVERS
TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
FHWA

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

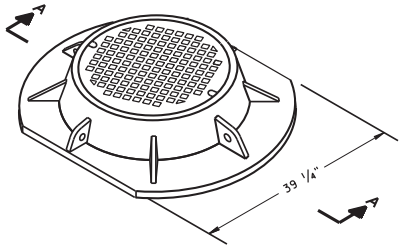
6

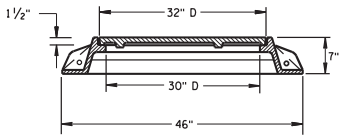
6

S.D.D. 8 A 5-19c

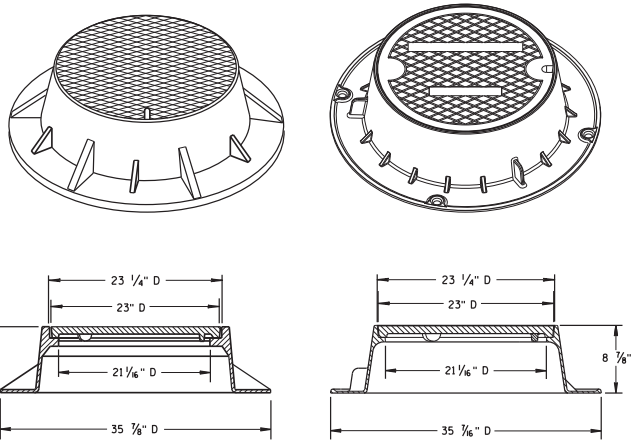
S.D.D. 8 A 5-19c

SDD 8a5-d Inlet Covers Type BW; Manhole Covers Type J, J-S, K, L and M





SECTION A-A
TYPE "K"



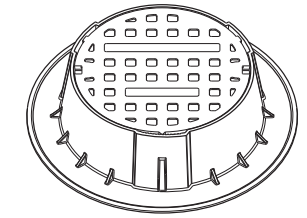
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

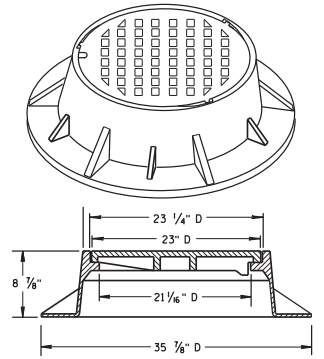
GENERAL NOTES

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

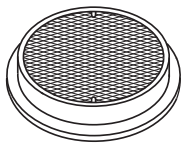
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

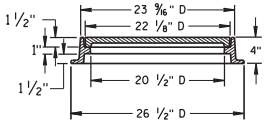
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



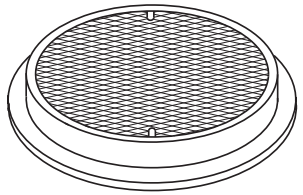


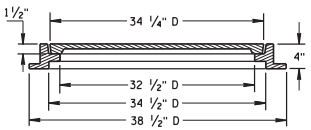
TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE





TYPE "L"





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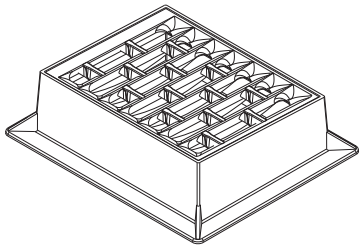
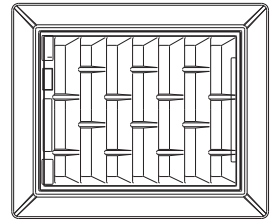
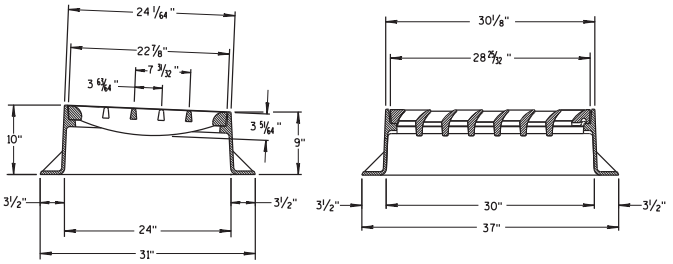






INLET COVER TYPE "BW"

INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

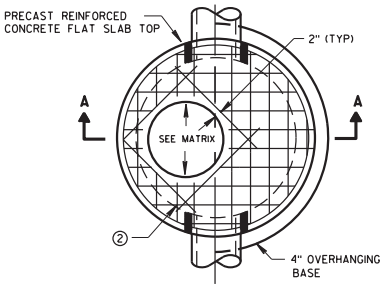
APPROVED
11/27/2013
DATE
FHWA

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

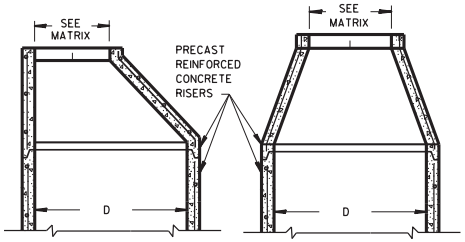
6

S.D.D. 8 A 5-19d

SDD 8b9 Manholes 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, and 8-FT Diameter

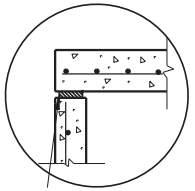


PLAN VIEW CIRCULAR OPENING

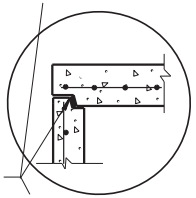


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

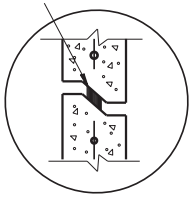


TOP WITH PLAIN END JOINT



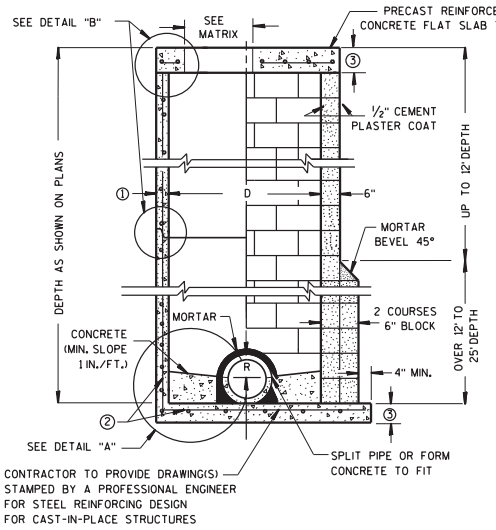
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



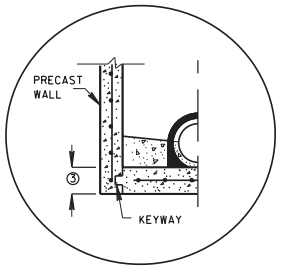
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

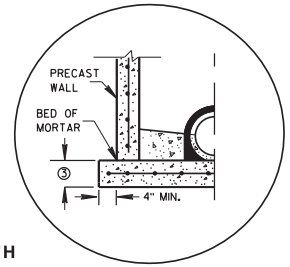


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

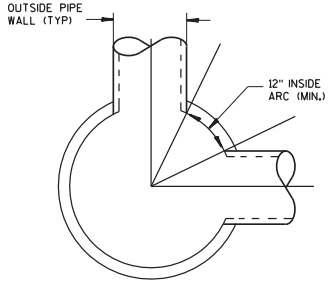


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½" AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR
FHWA

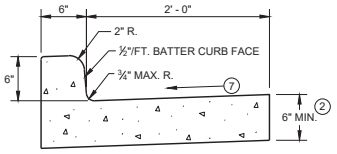
6

6

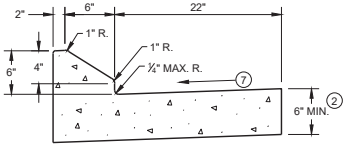
S.D.D. 8 B 9-2

S.D.D. 8 B 9-2

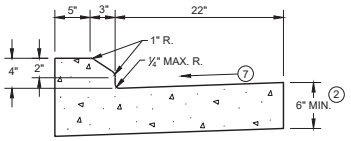
SDD 08D01-a Concrete Curb and Gutter



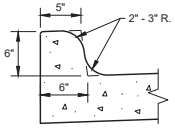
TYPES A (1) & D



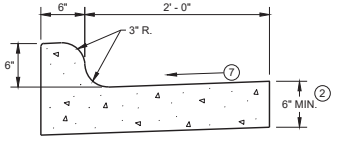
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

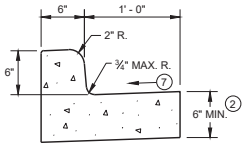


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



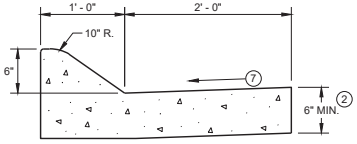
TYPES K (1) & L

CONCRETE CURB AND GUTTER 30"

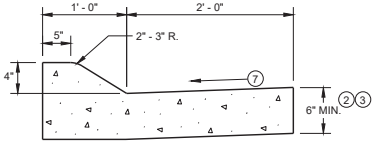


TYPES A (1) & D

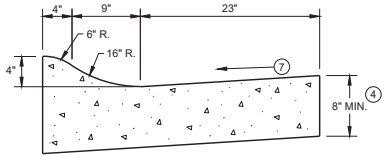
CONCRETE CURB AND GUTTER 18"



6" SLOPED CURB TYPES A (1) & D



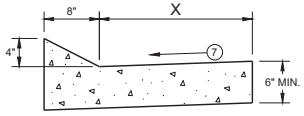
4" SLOPED CURB TYPES A (1) & D



4" SLOPED CURB TYPES R (1) & T (5)

CONCRETE CURB AND GUTTER 36"

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



TYPES TBT & TBTT (1)

CONCRETE CURB AND GUTTER

GENERAL NOTES

DETAILS OF CONSTRUCTION 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 AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

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 GUTTERS TYPES A, G, K, R, AND TBTT.

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

(3) USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

(4) 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.

(5) THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

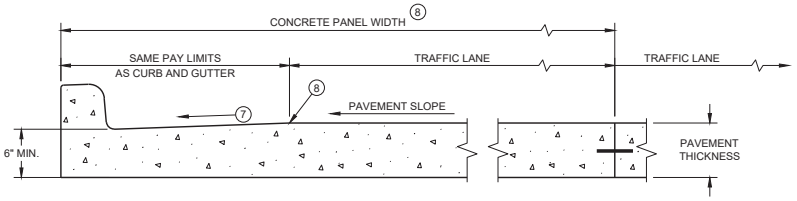
(6) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

(7) USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.

(8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

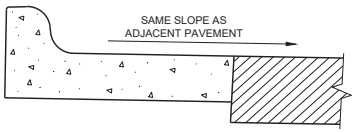
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'



PARTIAL SECTION OF PAVEMENT * WITH INTEGRAL CURB AND GUTTER

* BIKE LANE IS NOT SHOWN



REVERSE SLOPE GUTTER (6)
(TYPICAL FOR ALL CURB & GUTTER TYPES)

CONCRETE CURB AND GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

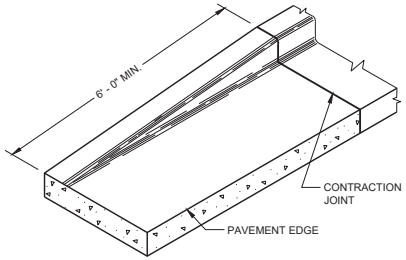
6

6

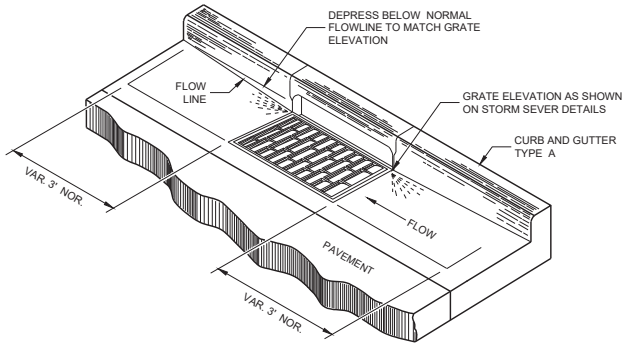
SDD 08D01 - 21a

SDD 08D01 - 21a

SDD 08D01-b Concrete Gutter, Ties, and Curb and Gutter Applications



END SECTIONCURB AND GUTTER



DETAIL OF CURB AND GUTTER AT INLETS
(TYPICAL H INLET COVER SHOWN)

GENERAL NOTES

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

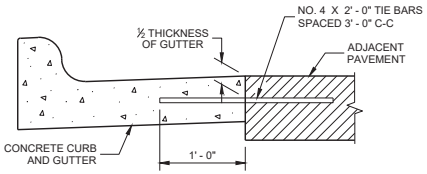
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

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

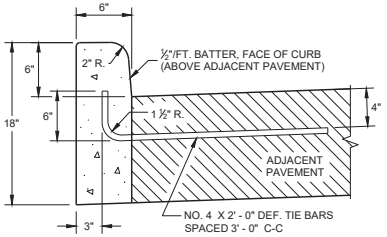
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

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

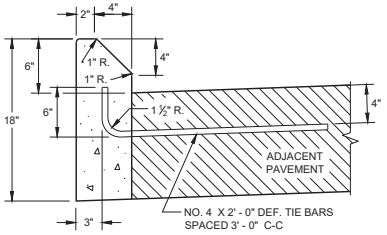
(9) REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.



TYPICAL TIE BAR LOCATION (1)

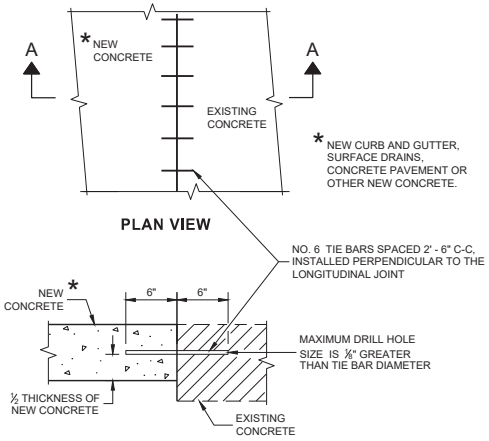


TYPES A (1) **& D**



TYPES G (1) **& J**

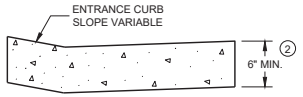
CONCRETE CURB



PLAN VIEW

SECTION A - A

TIE BARS DRILLED INTO EXISTING PAVEMENT



DRIVEWAY ENTRANCE CURB (9)
(WHEN DIRECTED BY THE ENGINEER)

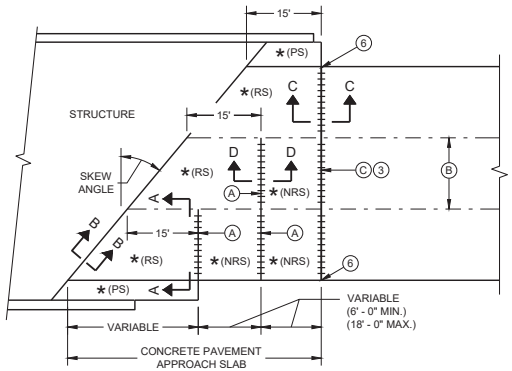
CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6
SDD 08D01 - 21b

SDD 13B02-a Concrete Pavement Approach Slab



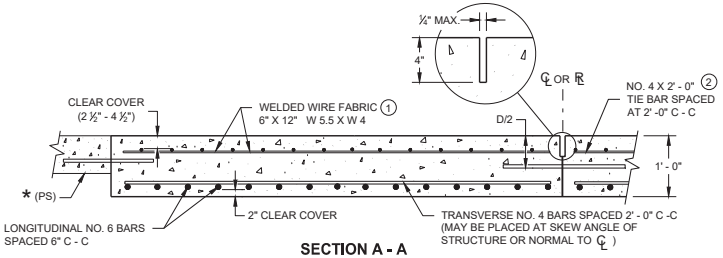
SKEWED APPROACH
(PAVEMENT MORE THAN TWO LANES)

★ (RS) = REINFORCED CONCRETE SLAB

★ (PS) = PAVED CONCRETE SHOULDER OR CONCRETE DRAINAGE SLAB

★ (NRS) - NON - REINFORCED CONCRETE SLAB

★★★ STANDARD DOWEL BAR DIAMETER (SEE SDD 13C11 AND SDD 13C13)



SECTION A - A
REINFORCEMENT POSITIONING DETAIL

GENERAL NOTES

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

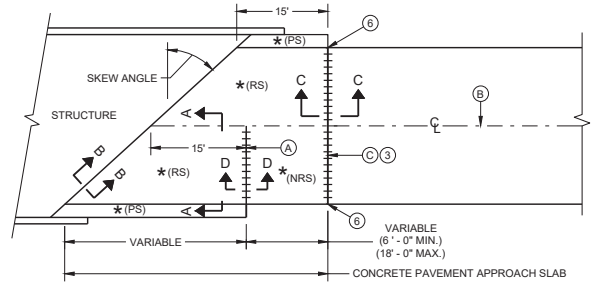
TACK WELD DOWEL BARS TO THE BASKETS ON ALTERNATE ENDS.

1. THE CONTRACTOR MAY USE NO. 4 BARS SPACED AT 2' - 0 " C - C IN BOTH THE LONGITUDINAL AND TRANSVERSE DIRECTIONS FOR TOP REINFORCEMENT AS AN ALTERNATIVE TO THE WELDED WIRE FABRIC.
2. THE CONTRACTOR MAY OMIT THE BARS BETWEEN REINFORCED SLABS WHERE SLAB REINFORCEMENT BARS EXTEND ACROSS THE CENTERLINE OR REFERENCE LINE.
3. DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING AN HMA PAVEMENT.
4. USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.
5. PLACE EXPANSION CAP ON THE END OF THE DOWEL THAT IS NOT TACK WELDED TO THE BASKET. DO NOT FORCE DOWEL BAR PAST THE DOWEL STOP.
6. EXTEND EXPANSION JOINT THROUGH ANY ADJACENT TIED CONCRETE.

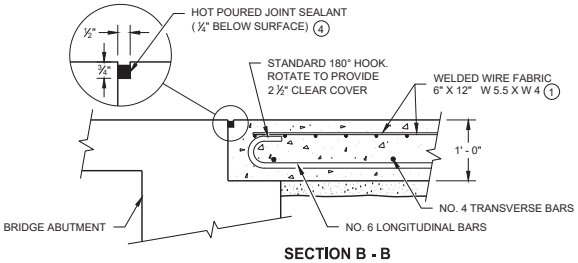
(A) STANDARD CONTRACTION JOINT NORMAL TO ℄ OR ℝ.

(B) STANDARD LONGITUDINAL JOINT WITH TIE BARS.

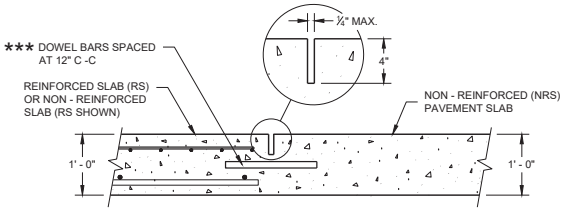
(C) 1 ½" EXPANSION JOINT WITH DOWEL BARS NORMAL TO ℄ OR ℝ .



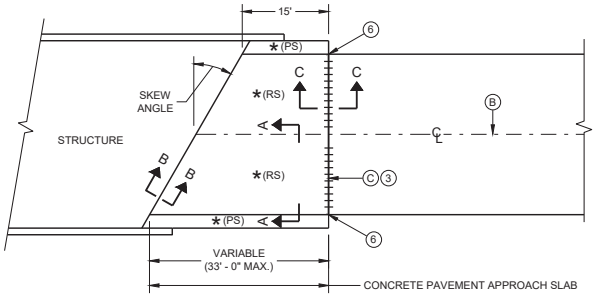
SKEWS > 20°
(PAVEMENT WIDTH ≤ 30')



SECTION B - B
BEND DETAIL
BOTTOM REINFORCEMENT

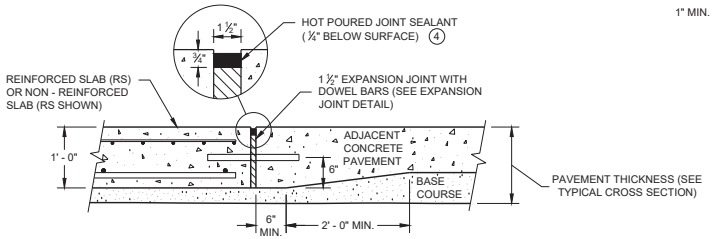


SECTION D - D
CONTRACTION JOINT

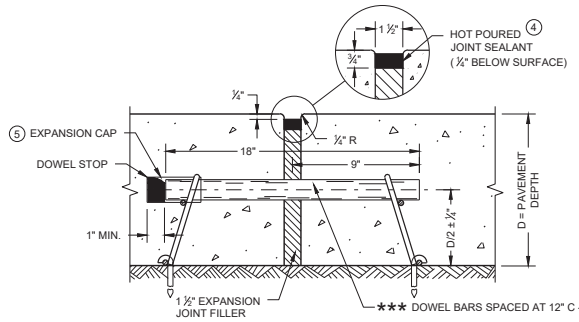


SKEWS ≤ 20°
(PAVEMENT WIDTH ≤ 30')

APPROACH SLAB AND ADJACENT PAVEMENT



SECTION C - C
TRANSITION DETAIL
APPROACH SLAB TO ADJACENT PAVEMENT



EXPANSION JOINT DETAIL

CONCRETE PAVEMENT APPROACH SLAB

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Peter Kemp, P.E.
PAVEMENT SUPERVISOR

FHWA

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SDD 13B02 - 09a

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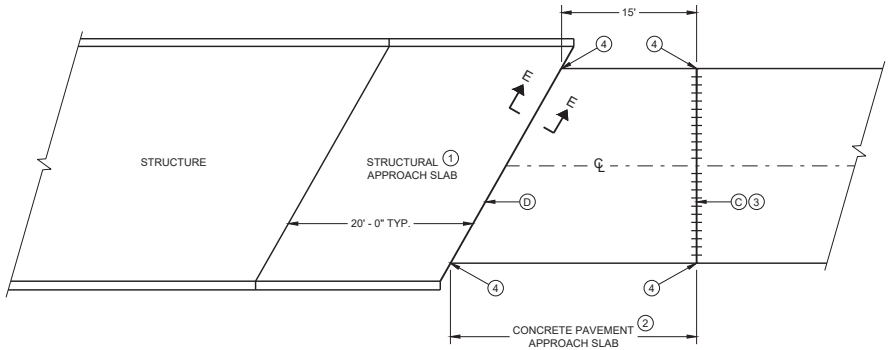
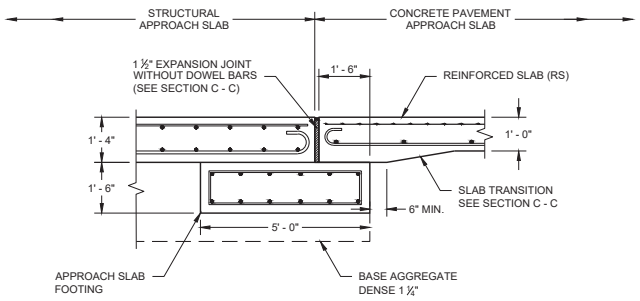
SDD 13B02 - 09a

SDD 13B02-b Structural Approach Slab and Concrete Pavement Approach Slab



BRIDGE APPROACHES



SECTION E - E
FOOTING DETAIL
STRUCTURAL APPROACH SLAB TO CONCRETE BRIDGE APPROACH

GENERAL NOTES

ALL PROJECTS THAT INVOLVE A STRUCTURAL APPROACH SLAB WILL ALSO HAVE A CONCRETE PAVEMENT APPROACH SLAB.

1. SEE BRIDGE PLAN.
2. CONFORM TO SDD 13B02 SHEET A FOR CONCRETE PAVEMENT APPROACH SLAB DETAILS
3. DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING AN HMA PAVEMENT.
4. EXTEND EXPANSION JOINT THROUGH ANY ADJACENT TIED CONCRETE.
C. 1 ½" EXPANSION JOINT WITH DOWEL BARS NORMAL TO ℄ OR ℝ.
D. 1 ½" EXPANSION JOINT (NO DOWELS)

STRUCTURAL APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018 — DATE
/S/ Peter Kemp P.E. — PAVEMENT SUPERVISOR

FHWA

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SDD 13B02 - 09b

SDD 13B02 - 09b