Section No.

Section No. Section No. Section No.

TOTAL SHEETS =

STATE OF WISCONSIN ORDER OF SHEETS **DEPARTMENT OF TRANSPORTATION** Section No. Typical Sections and Details Estimate of Quantities

PLAN OF PROPOSED IMPROVEMENT

FEDERAL PROJECT STATE PROJECT CONTRACT 9210-19-71

PROJECT PLAN

DESIGN OF UTILITY FACILITY

ALTERATIONS OR RELOCATIONS

FOR

STRUCTURE B-5-284

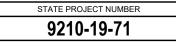
STH 32 OVER BEAVER DAM CREEK

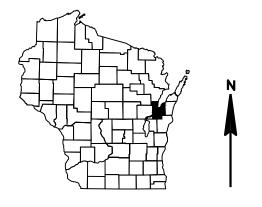
W MASON ST, CITY OF GREEN BAY

BEAVER DAM CREEK BR

STH 32 BROWN COUNTY

DATE: 11/16/2020





Right of Way Plat

Standard Detail Drawings

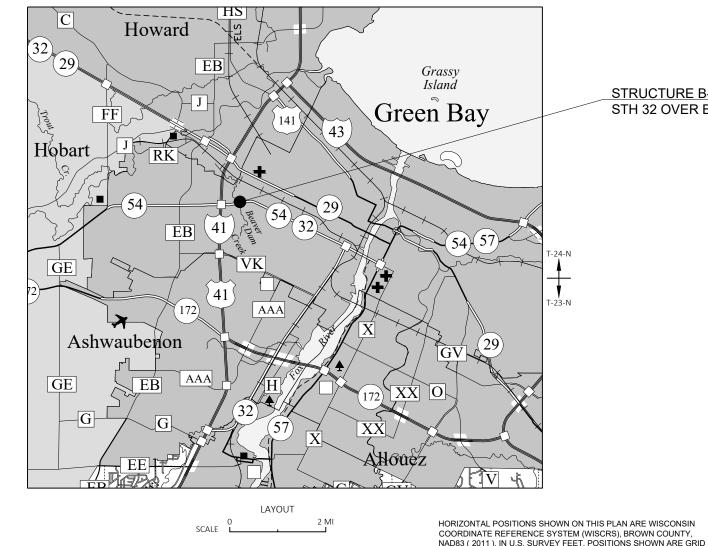
Computer Earthwork Data

DESIGN DESIGNATION

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

CONVENTIONAL SYMBOLS

PLAN		PROFILE	
CORPORATE LIMITS	<u> </u>	GRADE LINE	
PROPERTY LINE		ORIGINAL GROUND	
LOT LINE		MARSH OR ROCK PROFILE (To be noted as such)	ROCK
LIMITED HIGHWAY EASEMENT	L	SPECIAL DITCH	LABEL
EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE		GRADE ELEVATION	95.36
SLOPE INTERCEPT		CULVERT (Profile View)	0 🗆
REFERENCE LINE	300'EB'	UTILITIES	
		ELECTRIC	— E —
EXISTING CULVERT		FIBER OPTIC	—— FO ——
PROPOSED CULVERT (Box or Pipe)	-	GAS	—— G ——
	.\.\.\	SANITARY SEWER	SAN
COMBUSTIBLE FLUIDS	-CAUTION-	STORM SEWER	—— ss ——
		TELEPHONE	— т —
MARSH ARFA	(<u> </u>	WATER	—— w ——
	_____\	UTILITY PEDESTAL	Ħ
	,	POWER POLE	4
WOODED OR SHRUB AREA	ξ	TELEPHONE POLE	Ø



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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

PPROVED FOR THE DEPARTMENT

10/27/2020 3:31 PM

TOTAL NET LENGTH OF CENTERLINE =

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

FILE NAME: C:\CIVIL 3D PROJECTS\92101900\SHEETSPLAN\010101-TI.DWG

SMITH, JENNIFER B

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

RUNOFF COEFFICIENT TABLE

	HYDROLOGIC SOIL GROUP											
A			В		С		D					
	SLOPE RANGE (PERCENT) SLOPE RANGE (PERCENT)		GE (PERCENT)	SLOPE RANGE (PERCENT)		SLOPE RANGE (PERCENT)		(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	.16 .30	.22	.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	.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 .7095												
CONCRETE .8095												
BRICK .7080												
DRIVES, WALKS .7585												
ROOFS	ROOFS .7595											
GRAVEL ROADS, SH	GRAVEL ROADS, SHOULDERS .4060											

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

9210-19-71 HWY: STH 32 COUNTY: BROWN **GENERAL NOTES**

10/27/2020 3:34 PM

PLOT BY: SMITH, JENNIFER B

1 IN:10 FT

SHEET

Dial (800)242-8511 www.DiggersHotline.com

UTILITIES CONTACTS

COMMUNICATIONS

COMPANY NAME

CONTACT NAME

CITY, STATE, ZIP

ADDRESS

PHONE: EMAIL:

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

WISDOT/CADDS SHEET 42

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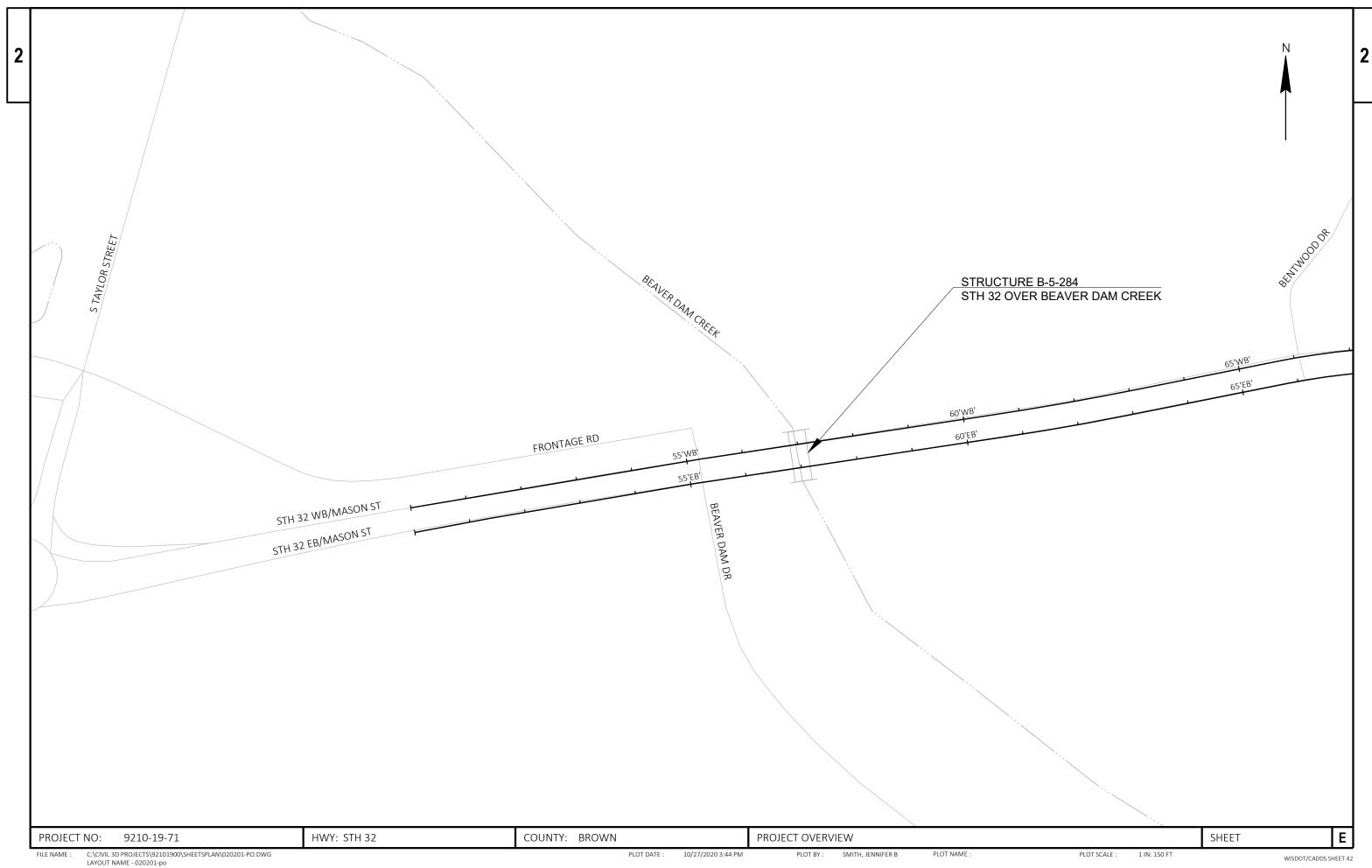
C:\CIVIL 3D PROJECTS\92101900\SHEETSPLAN\020101-GN.DWG FILE NAME :

PROJECT NO:

PLOT DATE :

PLOT NAME

PLOT SCALE :

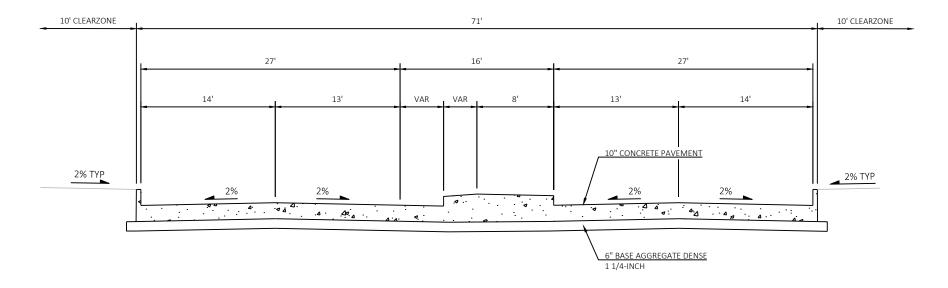


*PAVEMENT DEPTHS AND MATERIALS UNKNOWN

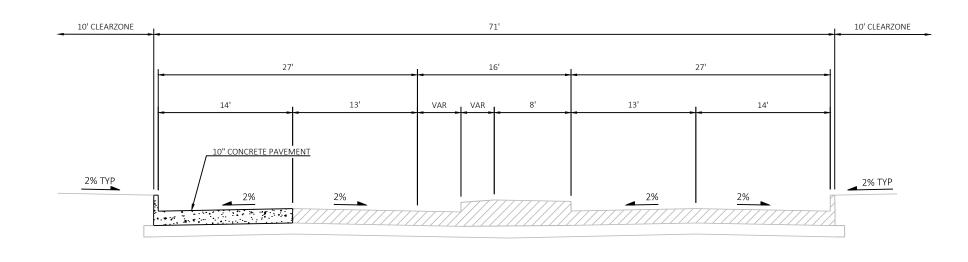
2% TYP

*TYPICAL EXISTING SECTION STA 57'WB'+16 TO STA 57'WB'+49 STA 57'EB'+16 TO STA 57'EB'+36 2%

2% TYP



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

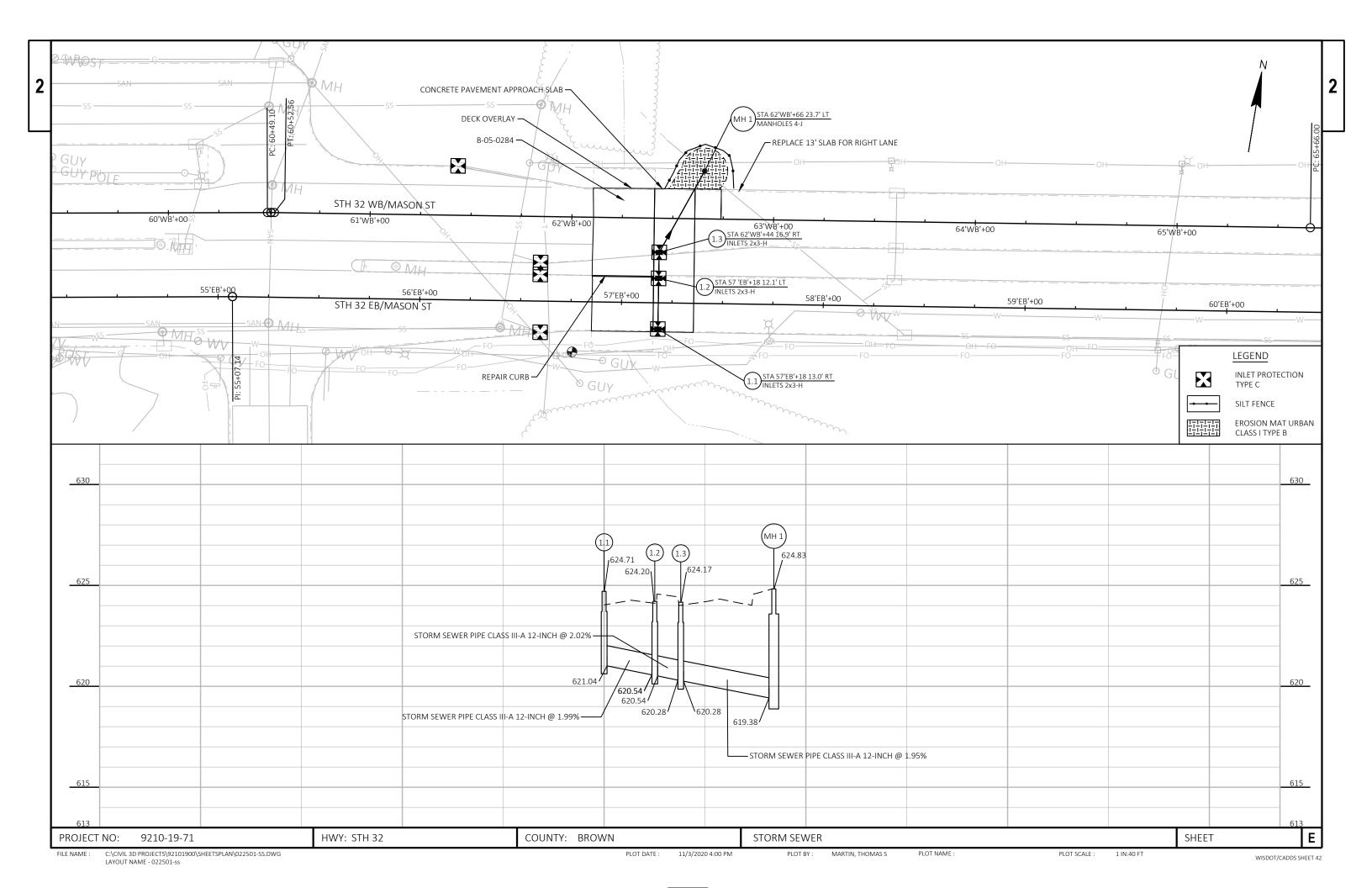


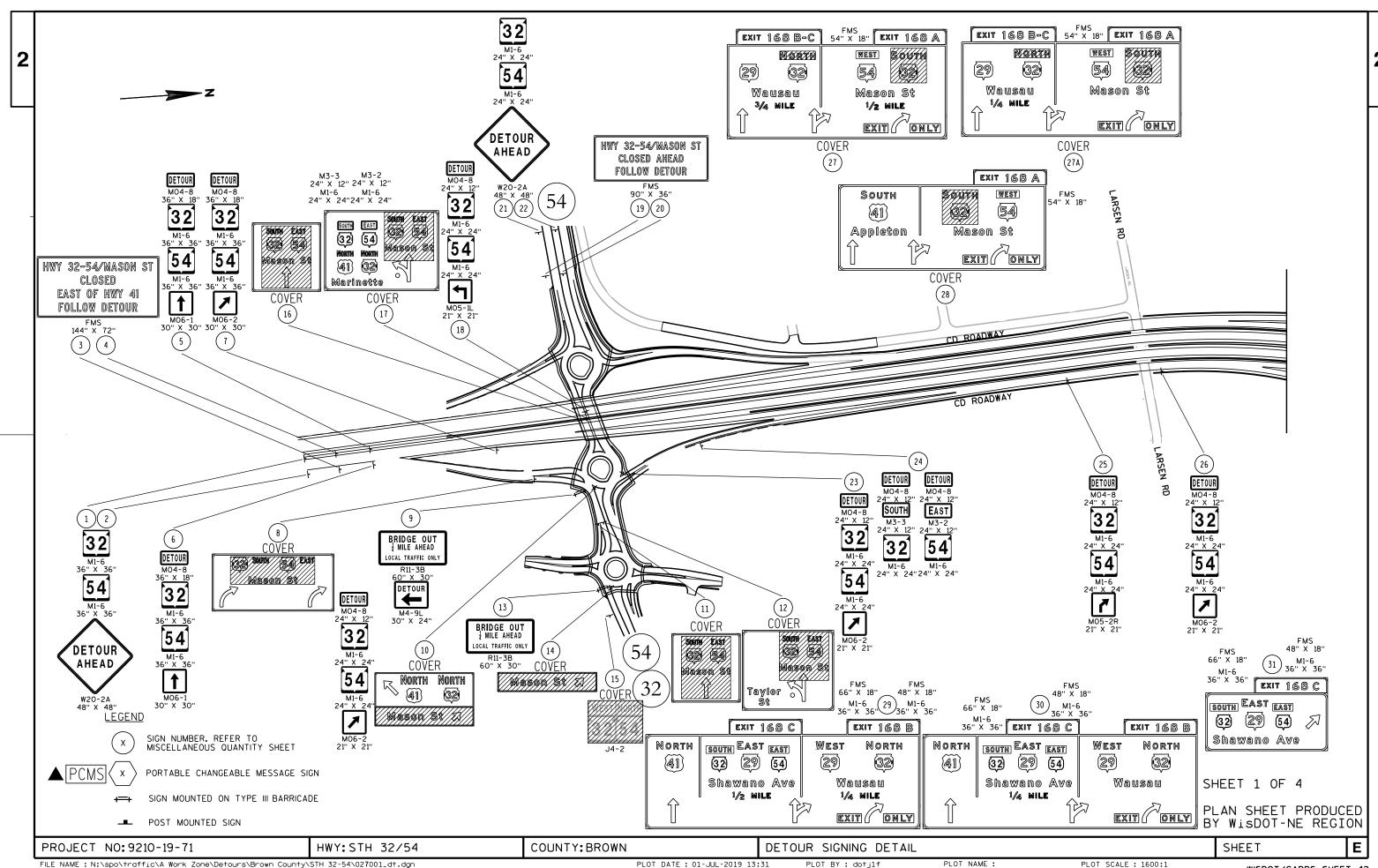
*PAVEMENT DEPTHS AND MATERIALS UNKNOWN

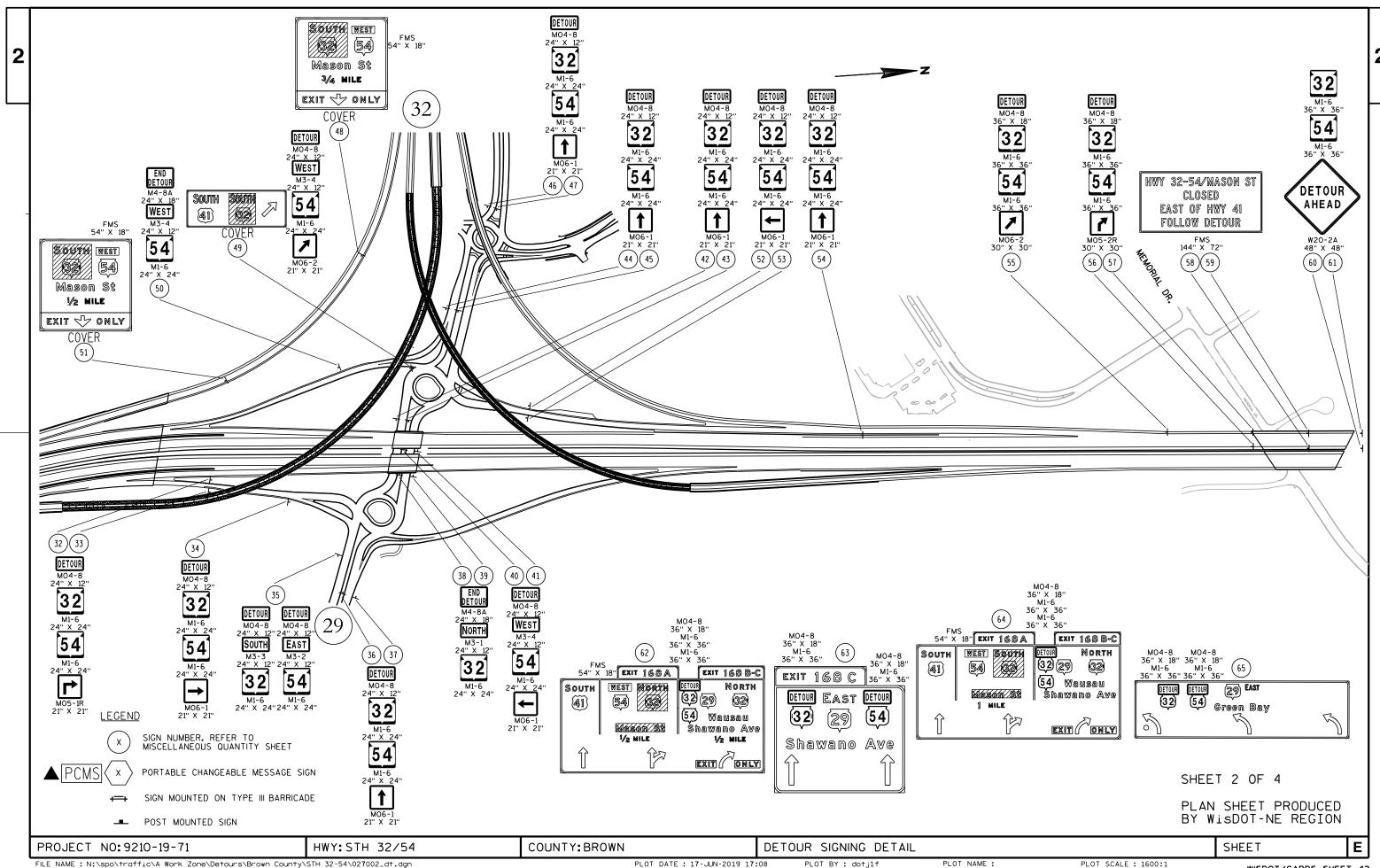
*TYPICAL FINISHED SECTION STA 57'WB'+36 TO STA 57'WB'+49

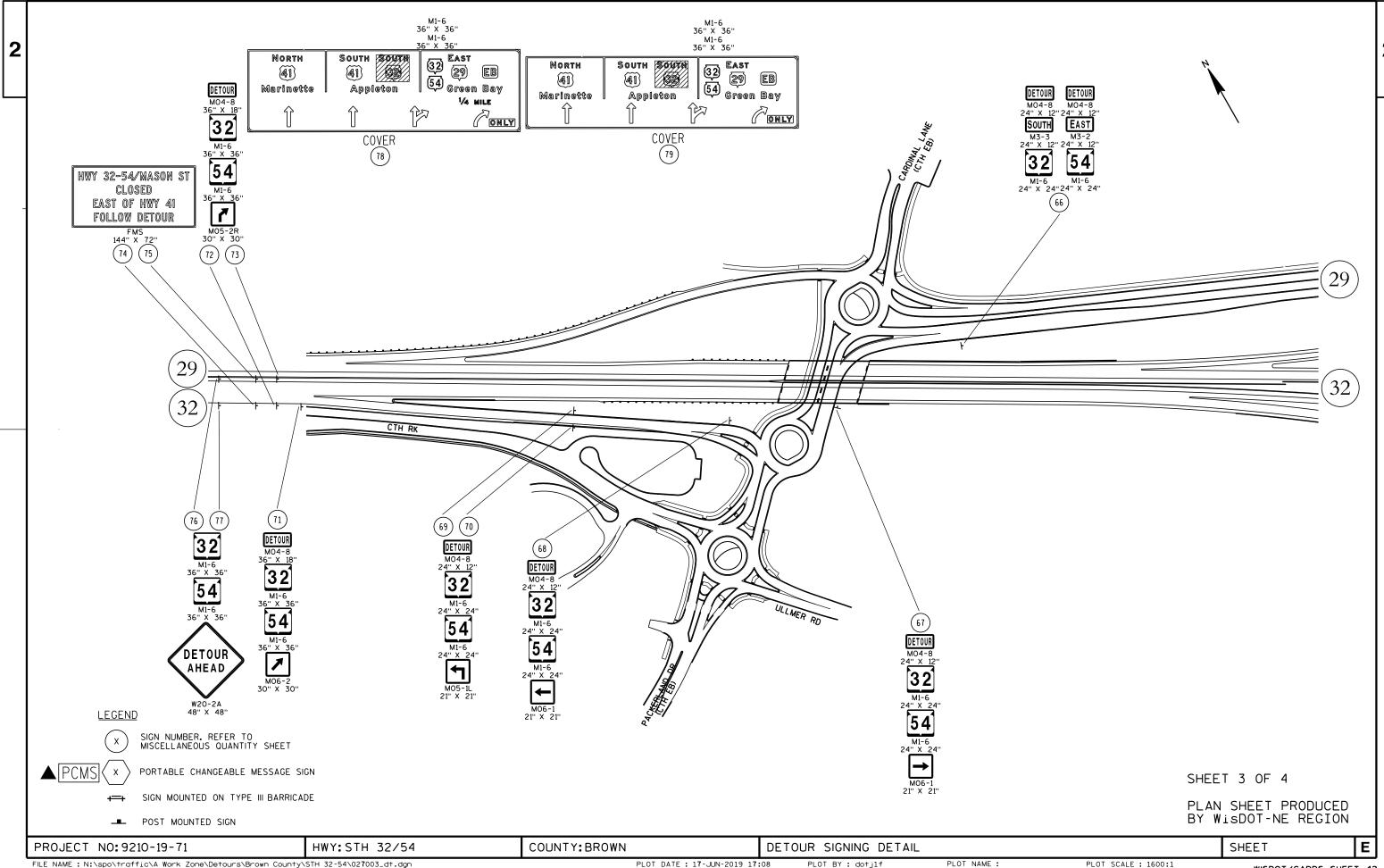
PROJECT NO: 9210-19-71 HWY: STH 32 COUNTY: BROWN TYPICAL SECTIONS SHEET **E**

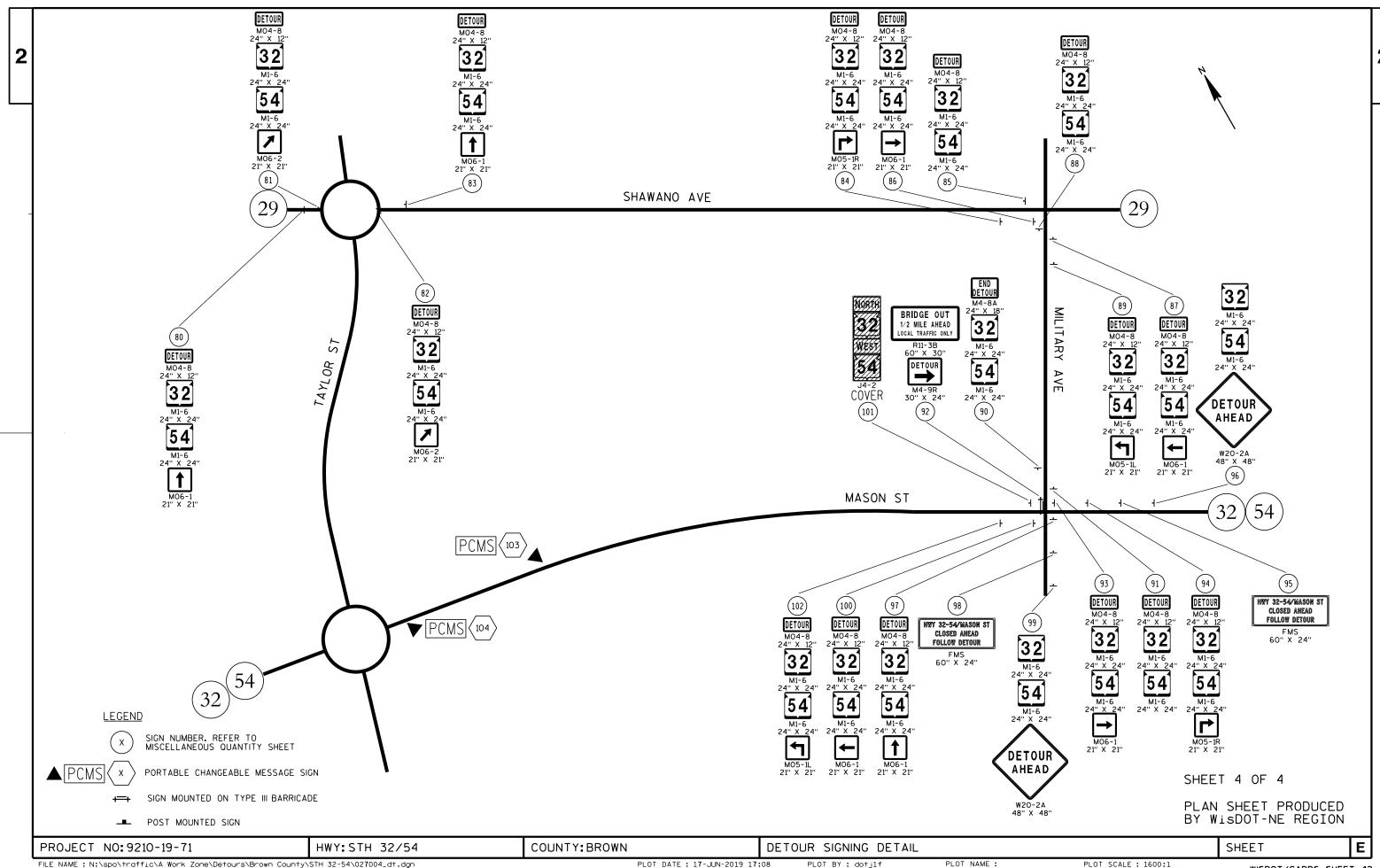
FILE NAME: C\CIVIL 3D PROJECTS\92101900\SHEETSPLAN\020301-TS.DWG PLOT DATE: 10/29/2020 7:55 AM PLOT BY: SMITH, JENNIFER B PLOT NAME: PLOT SCALE: 1IN:10 FT WISDOT/CADDS SHEET 42 LAYOUT NAME - 020302-ts

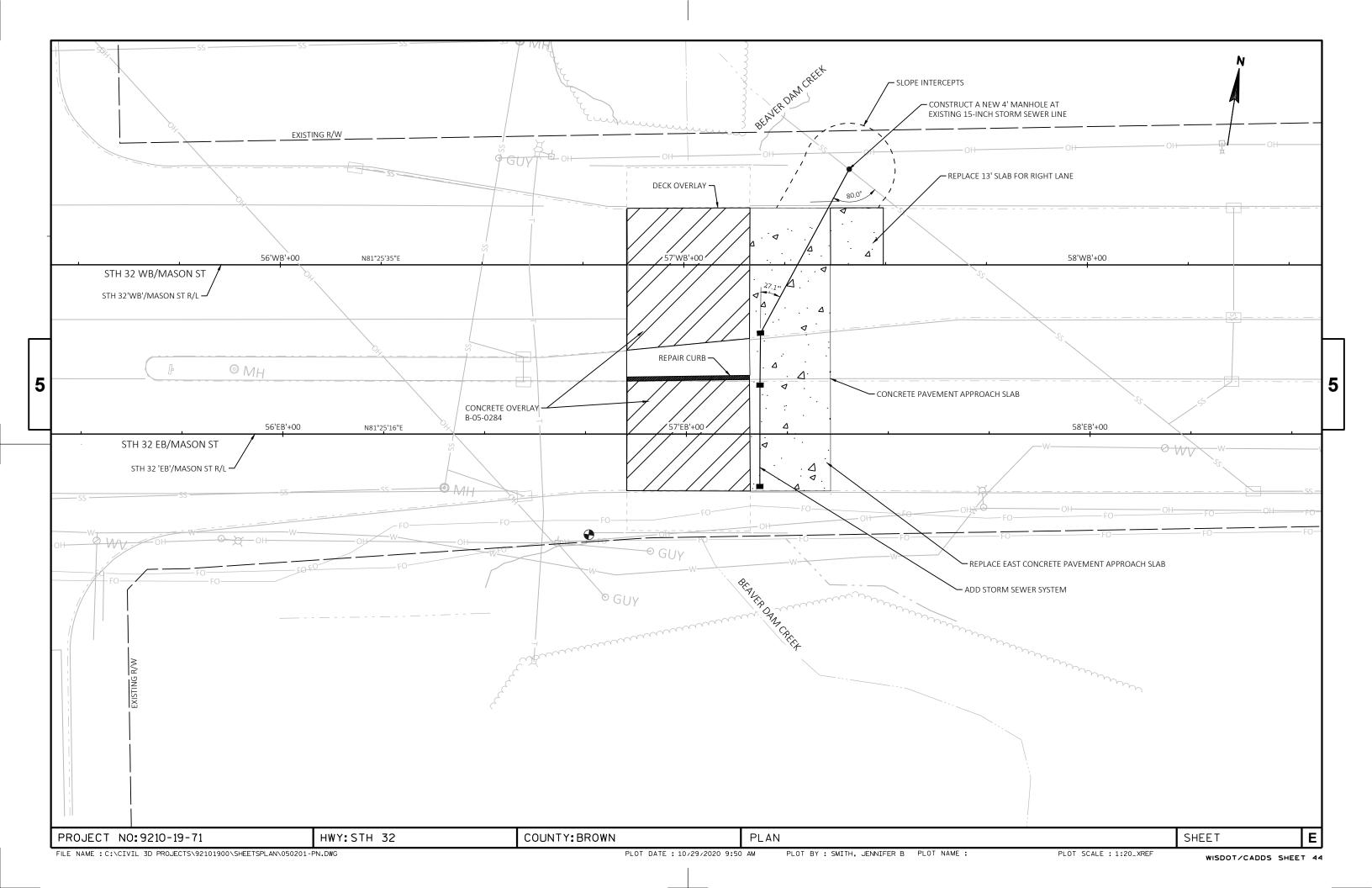


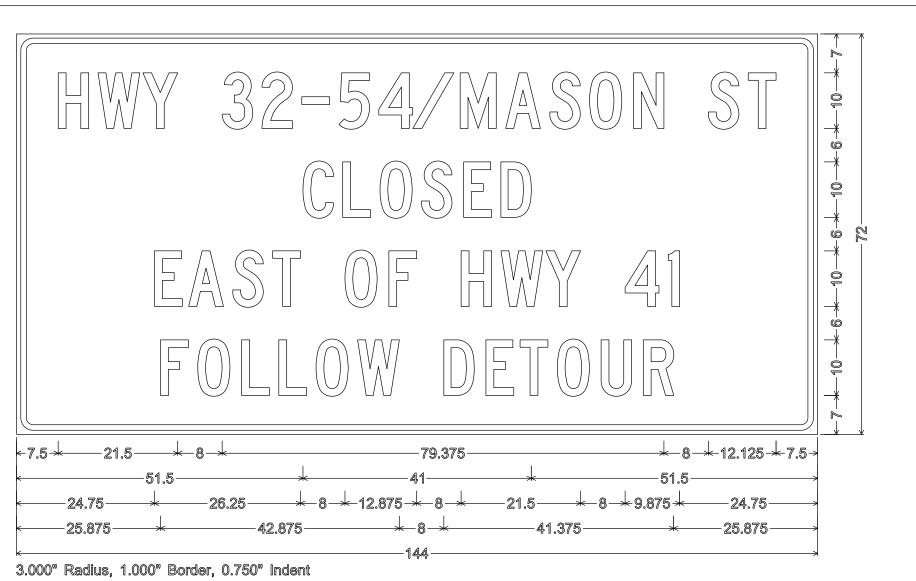












↓ 5 → 7.25

HWY 32-54/MASON ST CLOSED AHEAD

× 8.625 3 ×

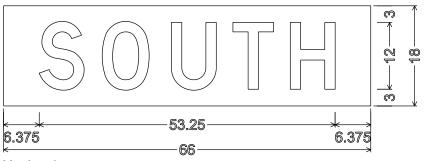
2.250" Radius, 0.625" Border, 0.500" Indent

NOTES

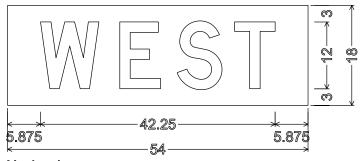
- 1. Fixed Message Type II Signs Type F Reflective
- 2. Color:

Background - Orange Message - Black

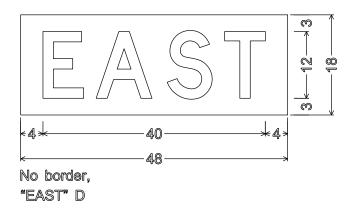
3. Message Series - C except as noted



No border, "SOUTH" D



No border, "WEST" D



2.250" Radius, 0.625" Border, 0.500" Indent

HWY: STH 32/54

32-54/MASON

COUNTY: BROWN

TEMPORARY SIGNING

SHEET NO:

Ε

FILE NAME : C:\CAEfiles\Projects\tr_d3_3051a619FMS.dgn

* 12.875 * 5 *

PROJECT NO: 9210-19-71

6.125

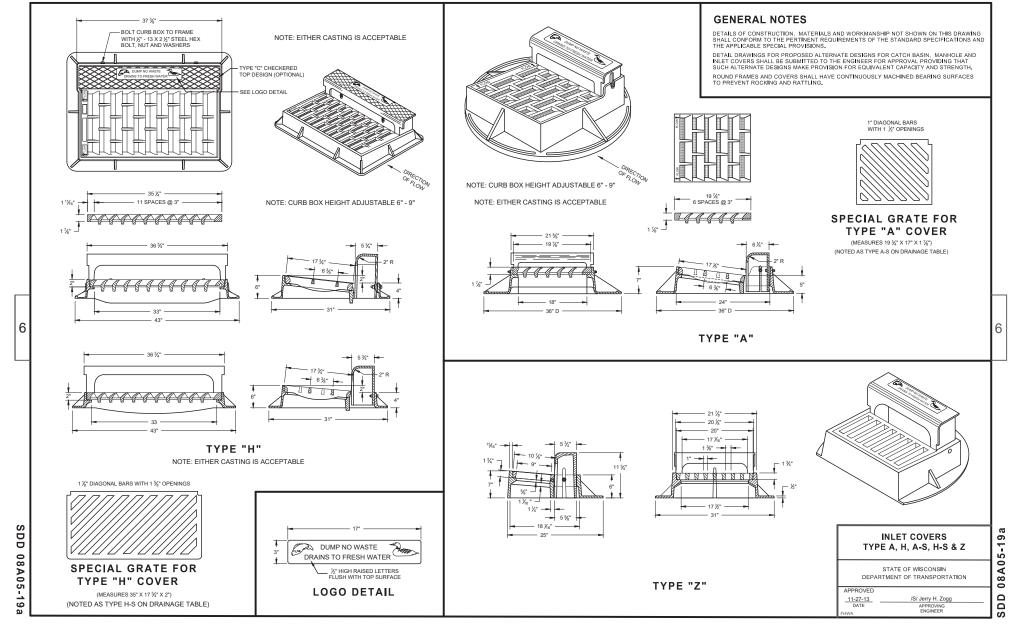
PLOT DATE: 17-JUN-2019 4:10 PLOT BY: mscj9h PLOT NAME :

3 k Q x 3 k Q x 3 k Q x

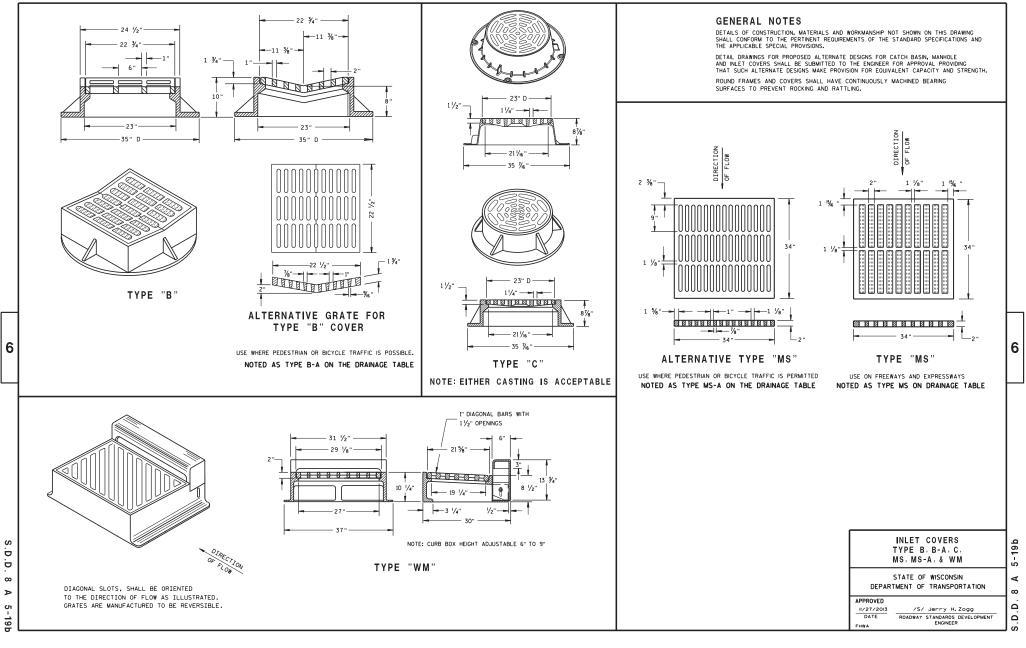
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

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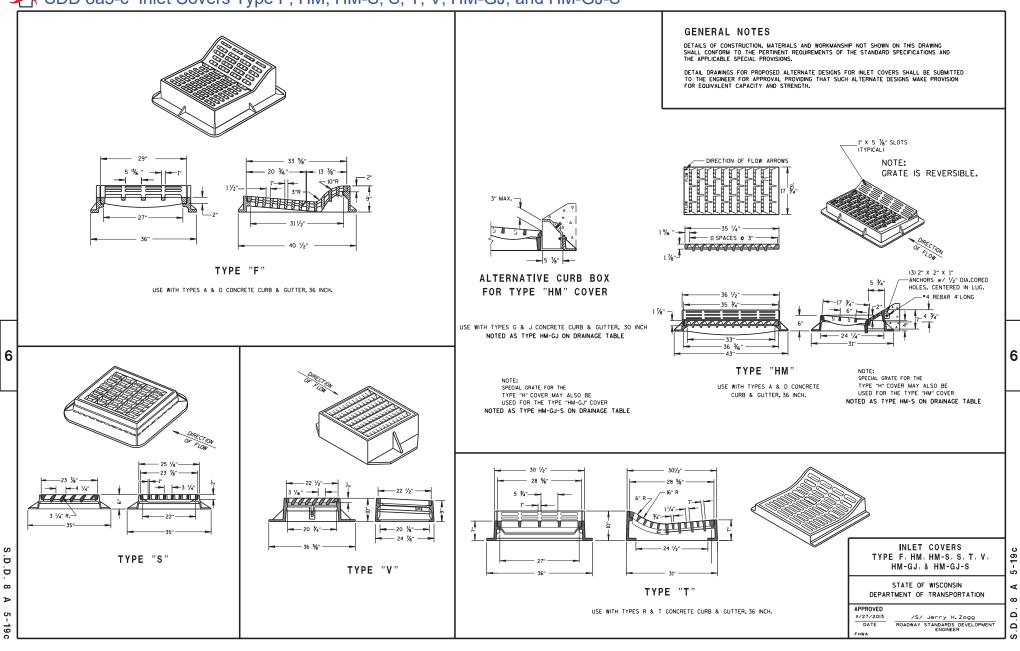
SDD 8a5-a Inlet Covers Type A, H, A-S, H-S and Z



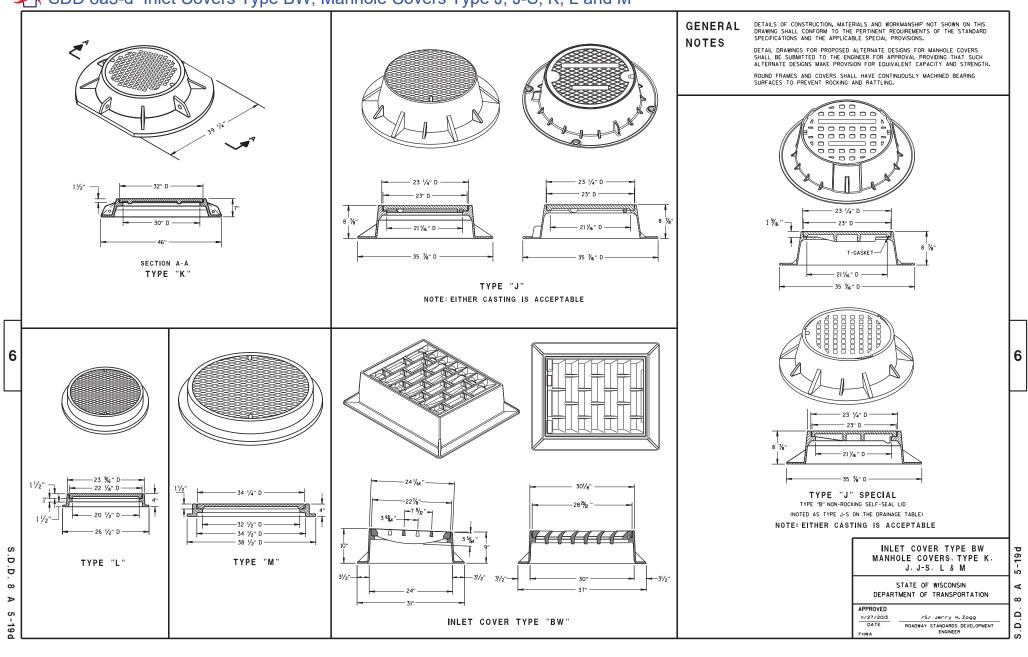
SDD 8a5-b Inlet Covers Type B, B-A, C, MS, MS-A, and WM



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



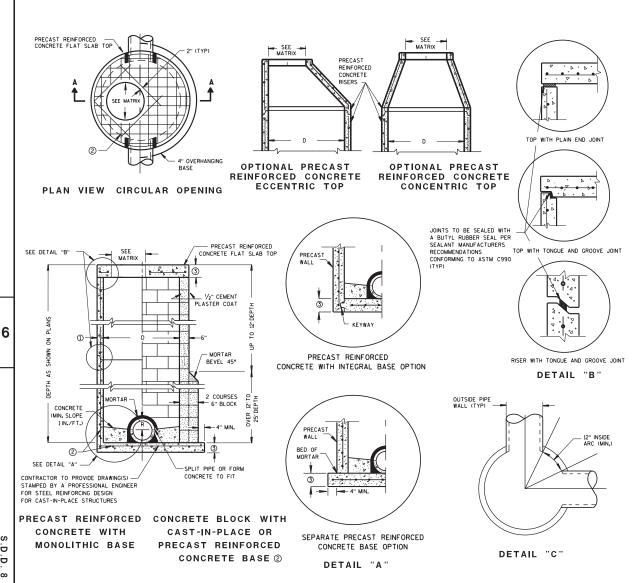
SDD 8a5-d Inlet Covers Type BW; Manhole Covers Type J, J-S, K, L and M



Ω

Ω

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



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 LINDERGROLIND DRAWAGE 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-R". "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 1/2" 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".

- INIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES MINIMUM WALL INICARES STALL DE 3 MANIEUR SON 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	С	ALL J'S	К	L	М
OPENING SIZE (FT)					
2 DIA.	х	х		Х	
3 DIA.			х		Х

PIPE MATRIX

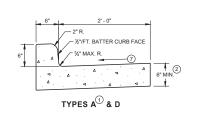
MANHOLE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES					
SIZE	180° SEPARATION (IN)	90° SEPARATION (IN)				
3-FT	15	12				
4-FT	24	18				
5-FT	36	24				
6-FT	42	36				
7-FT	48	36				
8-FT	60	42				

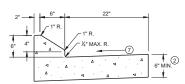
 	 T, 5-FT, 6-F DIAMETER	T

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION APPROVED

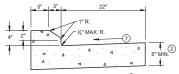
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

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





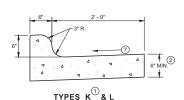
6" SLOPED CURB TYPES G & J



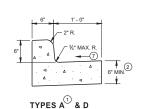
4" SLOPED CURB TYPES $G^{\scriptsize{\scriptsize{\scriptsize{\scriptsize{\scriptsize{0}}}}}}$ & J



TYPES K (0PTIONAL CURB SHAPE)



CONCRETE CURB AND GUTTER 30"



CONCRETE CURB AND GUTTER 18"

6" SLOPED CURB TYPES A D

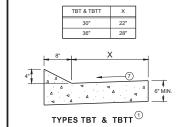
4" SLOPED CURB TYPES A & D

4" SLOPED CURB TYPES $\,{\rm R}^{\scriptsize \left(1\right)}\,$ & $\,{\rm T}^{\scriptsize \left(5\right)}$

CONCRETE CURB AND GUTTER 36"

6" MIN.

1 4 8" MIN.



CONCRETE CURB AND GUTTER

PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

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

GENERAL NOTES

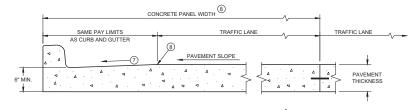
DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

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

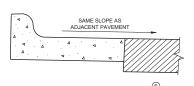
UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON

- 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.



PARTIAL SECTION OF PAVEMENT * WITH INTEGRAL CURB AND GUTTER

* BIKE LANE IS NOT SHOWN



REVERSE SLOPE GUTTER [®]

(TYPICAL FOR ALL CURB & GUTTER TYPES)

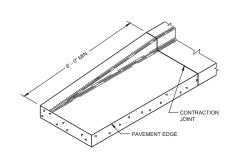
CONCRETE CURB AND GUTTER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

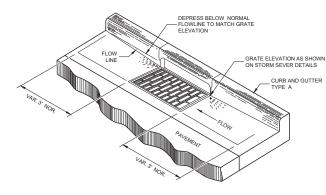
6

7 SDD 08D01



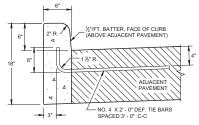


END SECTIONCURB AND GUTTER

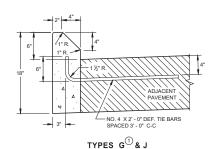


DETAIL OF CURB AND GUTTER AT INLETS

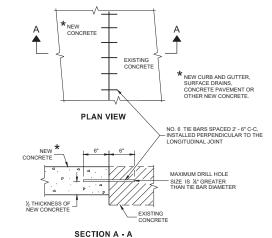
(TYPICAL H INLET COVER SHOWN)



TYPES A B D



CONCRETE CURB



TIE BARS DRILLED INTO EXISTING PAVEMENT

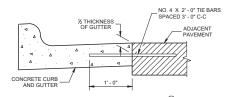
GENERAL NOTES

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

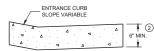
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

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 $^{\scriptsize \textcircled{\scriptsize 1}}$



DRIVEWAY ENTRANCE CURB (WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

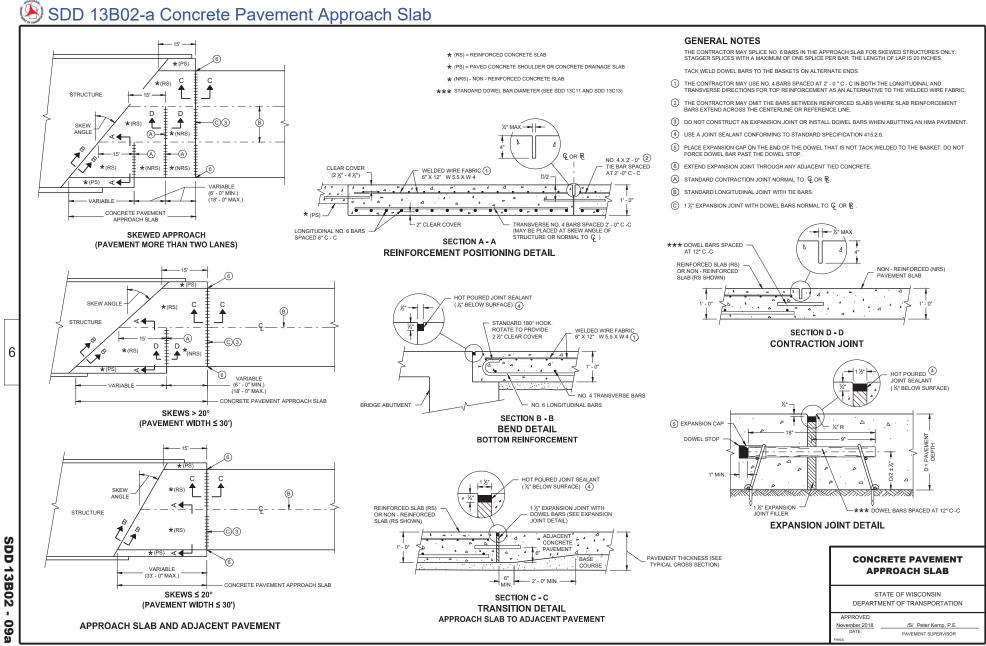
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE
ROADWAY STANDARDS DEVELOPMENT
ENGINEER

SDD 08D01

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/S/ Peter Kemp P.E. PAVEMENT SUPERVISOR