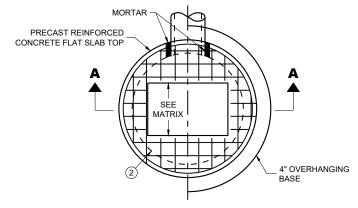
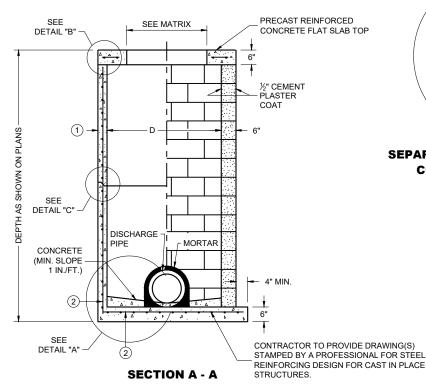
## **PLAN VIEW CIRCULAR OPENING**



### **PLAN VIEW RECTANGULAR OPENING**



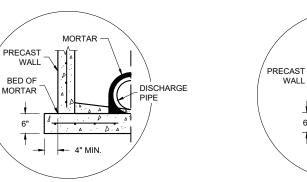
# **CONCRETE BLOCK WITH CAST IN PLACE OR** PRECAST REINFORCED CONCRETE BASE ②

### **CATCH BASIN COVER OPENING MATRIX**

INLET SIZE	INLET COVER TYPE	ALL A'S	ALL B'S	BW	С	F	ALL H'S	S	Т	٧	WM	Z
	OPENING SIZE (FT.)											
3-FT	2 DIA.				Х							Х
	2 X 2	Х	Х					Х		Х		
4-FT	2 DIA.				Х							Х
	2 X 2	Х	Х					Х		Х		
	2 X 2.5			Х				Х	Х	Х	Х	
	2 X 3						х					
	2.5 X 3					Х						

### **PIPE MATRIX**

	NLET SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES					
	OIZL	180° SEPARATION (IN)	90° SEPARATION (IN)				
	3-FT	15	12				
4	4-FT	24	18				



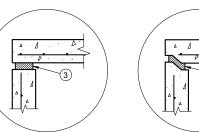
**SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION** 

PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

MORTAR

WALL

## **DETAIL "A"**



**TOP WITH PLAIN END JOINT** 



**TOP WITH TONGUE AND GROOVE JOINT** 



DISCHARGE

## **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

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

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.

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

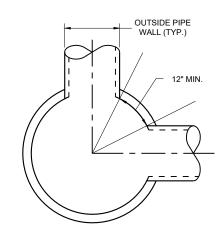
ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

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

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 "D".

- (1) MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT DIAMETER AND 5 INCHES FOR 4-FT DIAMTER PRECAST INLETS.
- (2) FOR PRECAST INLETS AND REINFORCED CONCRETE BASES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO
- (3) JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 OR RUBBER GASKETS CONFORMING TO ASTM C443.



MINIMUM HORIZONTAL PIPE **SEPARATION DETAIL "D"** 

# **INLETS 3-FT AND 4-FT DIAMETER**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

December 2023

ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

**CIRCULAR INLETS WITH FLAT TOP** 

PRECAST REINFORCED

**CONCRETE WITH** 

**MONOLITHIC BASE** 

08C06-03

**INLETS 3-FT AND 4-FT DIAMETER** 

**DETAIL "B"** 

**902**  $\infty$ Õ

# **Standard Detail Drawing 8C6**

## Inlets 3-FT and 4-FT Diameter

### References:

FDM 13-25-30

### Bid items associated with this drawing:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
611.3003	Inlets 3-FT Diameter	EACH
611.3004	Inlets 4-FT Diameter	EACH

## Standardized Special Provisions associated with this drawing:

STSP NUMBER TITLE

NONE

## Other SDDs associated with this drawing:

SDD 8A5 Inlet cover sheets "a", "b", "c", "d" and "e".

SDD 8D17 Manholes, Manhole and Inlet Covers

## **Design Notes:**

Guidelines for matching inlet opening size and inlet covers are provided on the front side of this SDD.

A pipe matrix on the front side of this SDD provides guidance for selecting the maximum inside pipe diameter.

Inlets should be kept as shallow as possible to reduce cost.

### **Contact Person:**

Ed Lilla (608) 266-2312