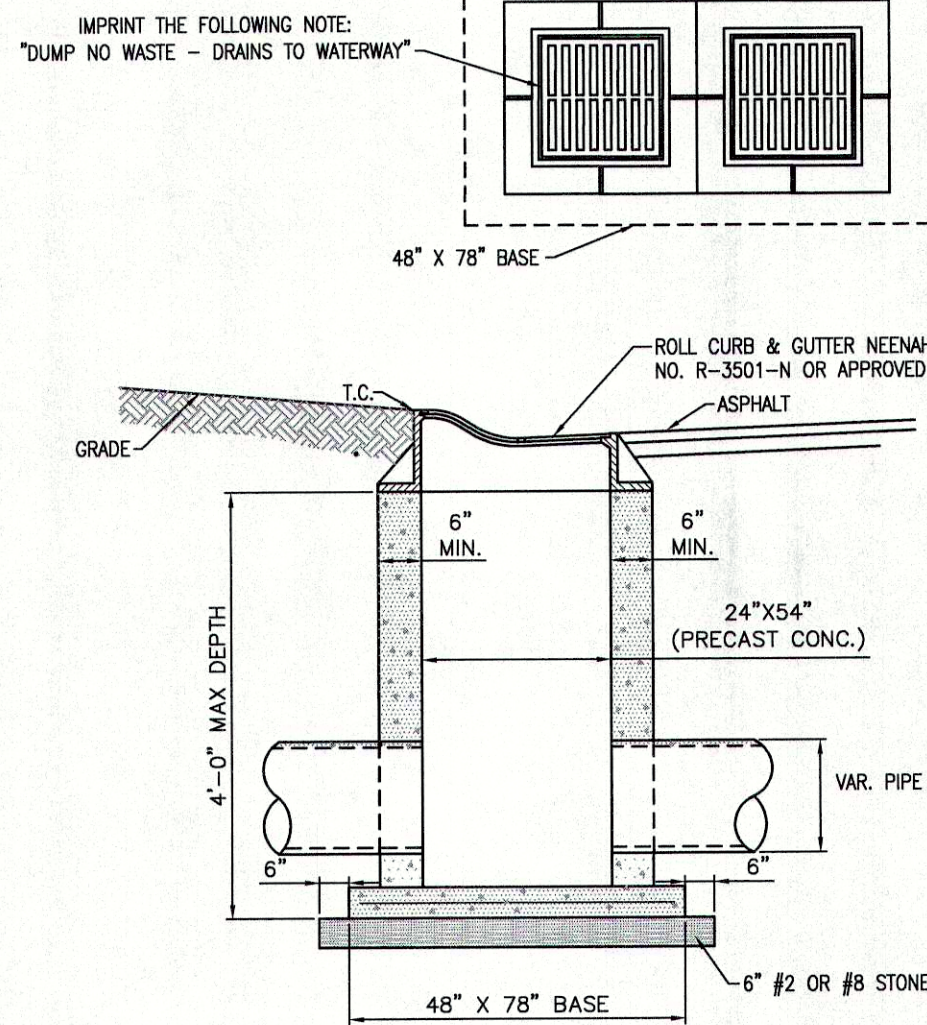
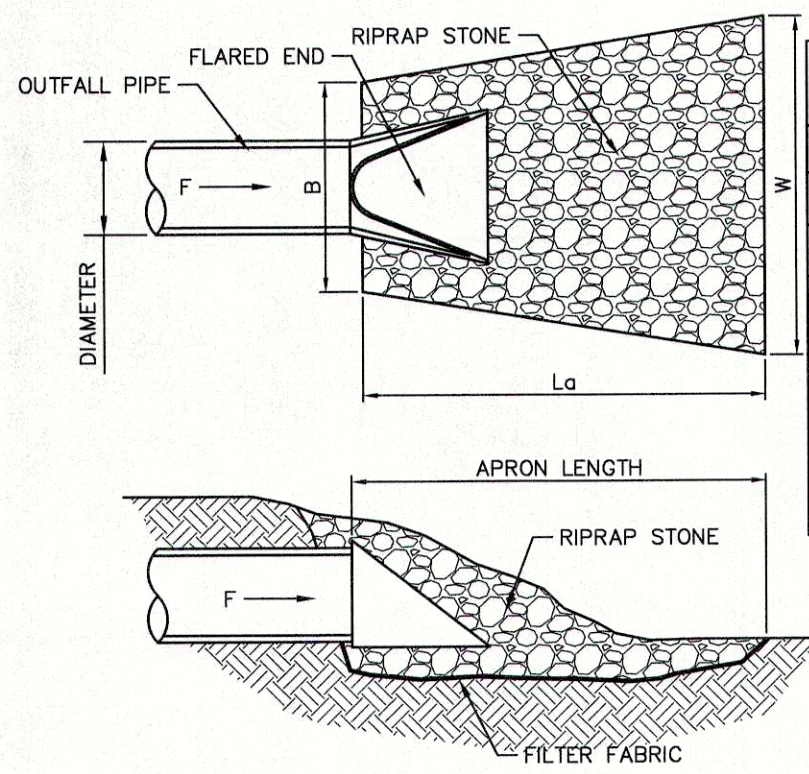




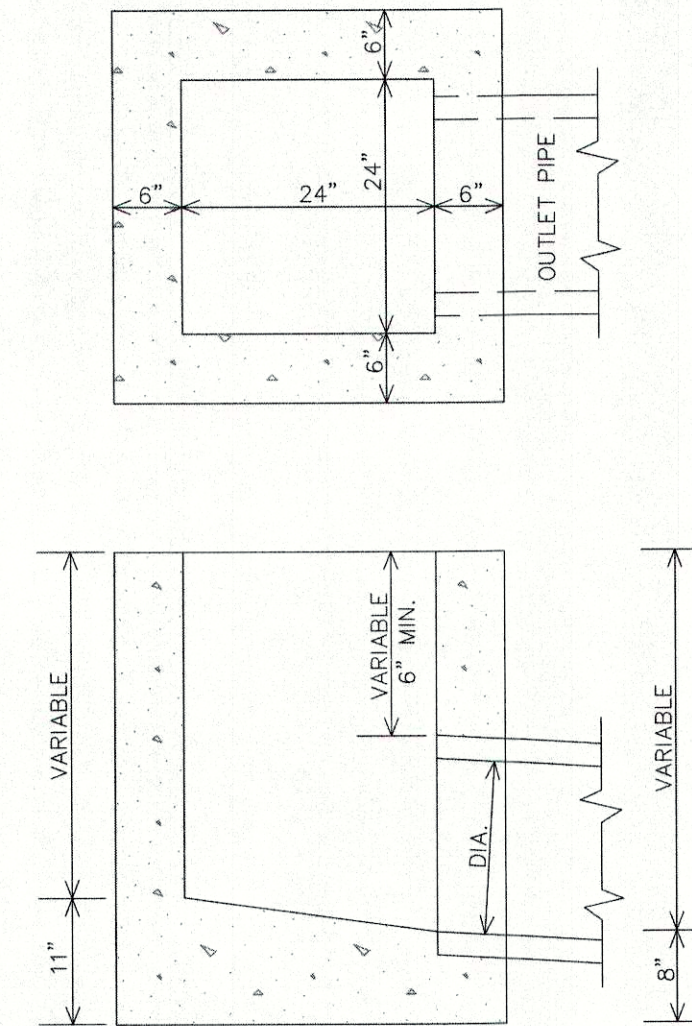
DOUBLE ROLL CURB INLET
NOT TO SCALE



RIP-RAP PLACEMENT
NOT TO SCALE

SIZE	B(ft)	La(ft)	W(ft)	Thickness(in)
12"	3	6	9	12"
15"	3.75	8	11.75	12"
18"	4.5	10	14.5	12"
24"	6	13	19	12"
27"	6.75	14	20.75	15"
30"	7.5	16	18.5	18"
36"	9	20	23	18"
42"	10.5	22	25.5	18"

STANDARD DETAIL - MADISON COUNTY, INDIANA



TYPE "A" INLET (MODIFIED)
(12" TO 18" PIPES)
MADISON COUNTY HIGHWAY ENGINEER'S OFFICE

APPROVED: _____ DATE: _____
MADISON COUNTY ENGINEER

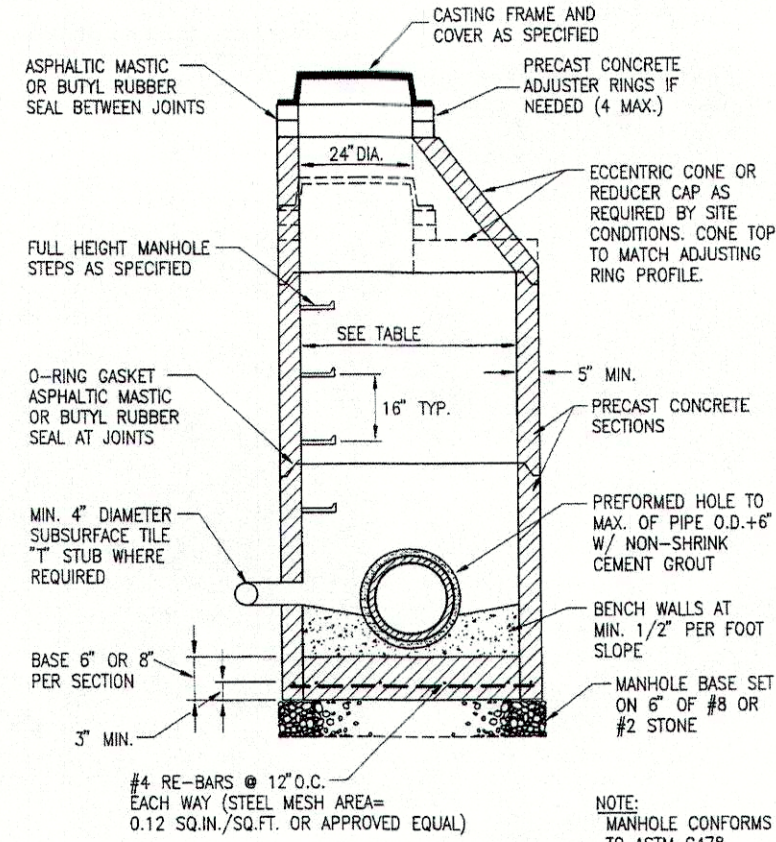
APPROVED: _____ DATE: _____
MADISON COUNTY BOARD OF COMMISSIONERS

REVIEWED: _____
STANDARD DETAIL

E-8

GENERAL NOTE FOR ALL STORM STRUCTURES:
BENCH WALLS SHALL BE SHAPED AND FORMED FOR A CLEAN TRANSITION WITH PROPER HYDRAULICS TO ALLOW THE SMOOTH TRANSITION OF FLOWS THROUGH THE MANHOLE OR BOX INLET. THE BENCH WALL SHALL FORM A DEFINED CHANNEL TO A MINIMUM HEIGHT OF 80-PERCENT OF THE INSIDE DIAMETER OF THE INLET AND OUTLET PIPES TO FORM A "V" SHAPED CHANNEL, CONSTRUCTED AT A MINIMUM 1/2 INCH PER FOOT SLOPE TO THE MANHOLE WALL.

STANDARD DETAIL - MADISON COUNTY, INDIANA



Pipe Size	Pipes entering or leaving at a 45-90 degree angle	Pipes entering or leaving at a 45-90 degree angle
12"-21"	48"	48"
24"	48"	60"
27" - 30"	60"	60"
33" - 36"	60"	72"

STORM MANHOLE FOR 12" THRU 24" PIPES
MADISON COUNTY HIGHWAY ENGINEER'S OFFICE

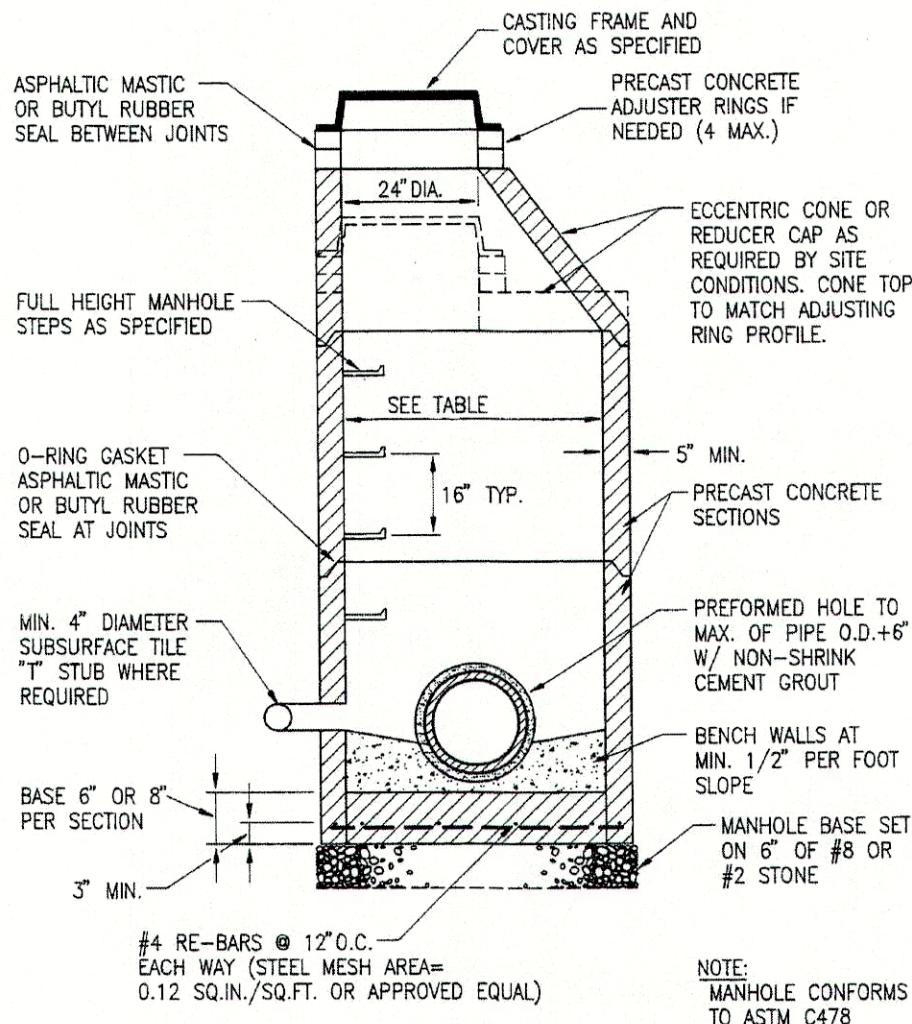
APPROVED: _____ DATE: _____
MADISON COUNTY ENGINEER

APPROVED: _____ DATE: _____
MADISON COUNTY BOARD OF COMMISSIONERS

REVIEWED: _____
STANDARD DETAIL

E-1

STANDARD DETAIL - MADISON COUNTY, INDIANA



STORM MANHOLE FOR 27" THRU 48" PIPES
MADISON COUNTY HIGHWAY ENGINEER'S OFFICE

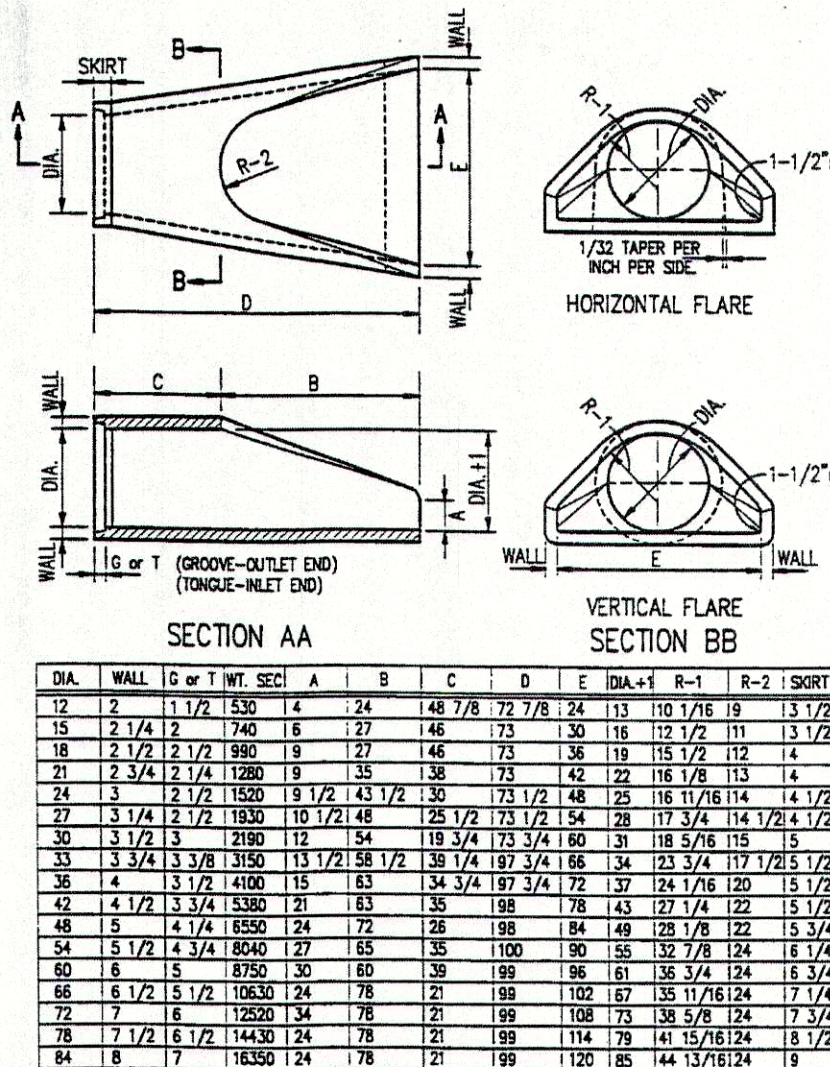
APPROVED: _____ DATE: _____
MADISON COUNTY ENGINEER

APPROVED: _____ DATE: _____
MADISON COUNTY BOARD OF COMMISSIONERS

REVIEWED: _____
STANDARD DETAIL

E-2

STANDARD DETAIL - MADISON COUNTY, INDIANA



CONCRETE END SECTION
MADISON COUNTY HIGHWAY ENGINEER'S OFFICE

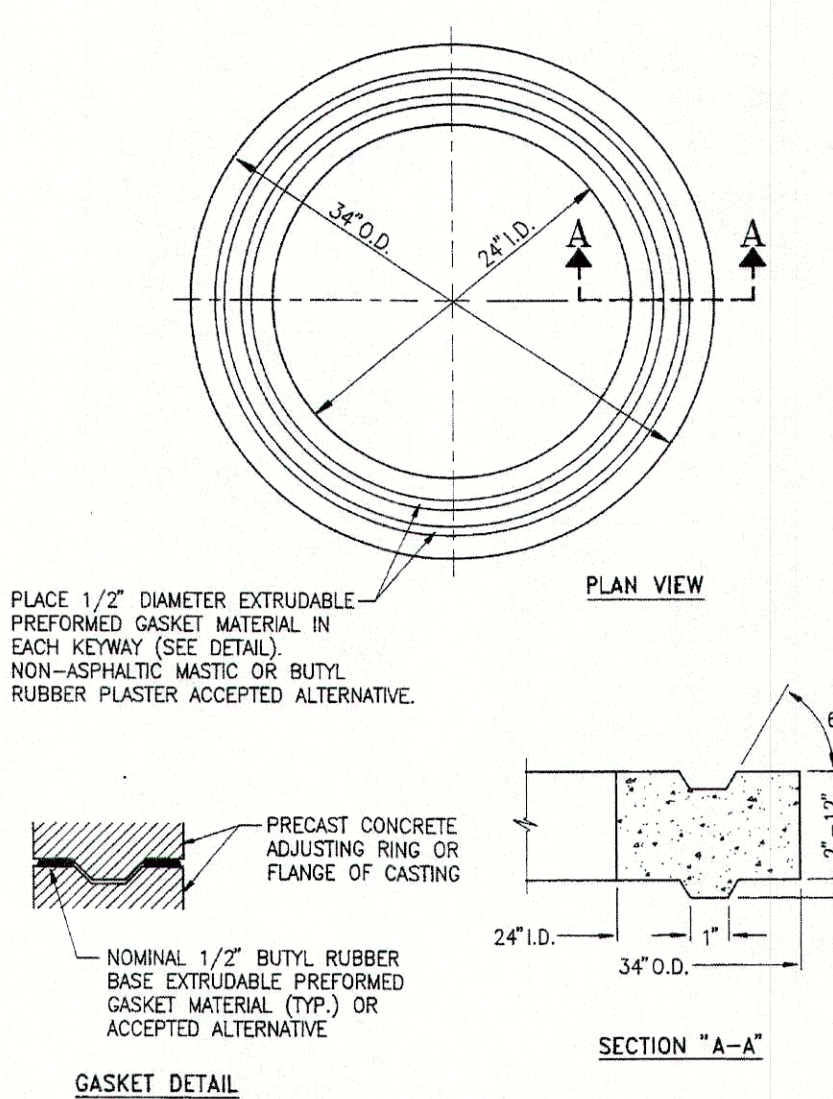
APPROVED: _____ DATE: _____
MADISON COUNTY ENGINEER

APPROVED: _____ DATE: _____
MADISON COUNTY BOARD OF COMMISSIONERS

REVIEWED: _____
STANDARD DETAIL

E-24

STANDARD DETAIL - MADISON COUNTY, INDIANA



PRECAST CONCRETE ADJUSTING RING
MADISON COUNTY HIGHWAY ENGINEER'S OFFICE

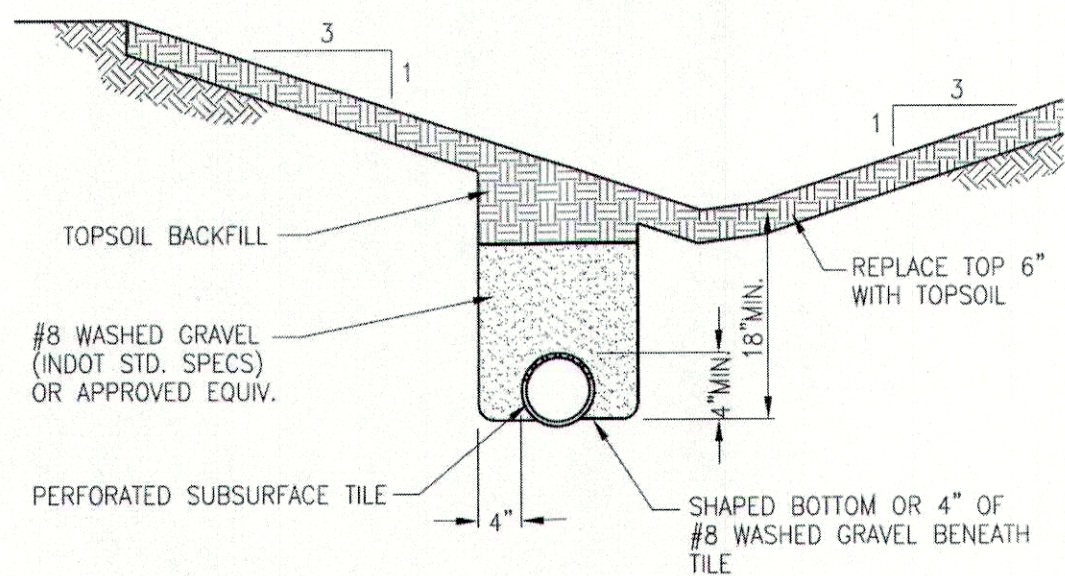
APPROVED: _____ DATE: _____
MADISON COUNTY ENGINEER

APPROVED: _____ DATE: _____
MADISON COUNTY BOARD OF COMMISSIONERS

REVIEWED: _____
STANDARD DETAIL

E-6

3" OR WIDTH PER PLAN



SWALE UNDERDRAIN DETAIL

REVISIONS

DATE	DESCRIPTION	BY

HWC
ENGINEERING
INDIANAPOLIS - TERRE HAUTE
LAFAYETTE - MUNICE - NEW ALBANY
www.hwcengineering.com

SPRINGBROOK SECTION 3 CONSTRUCTION DETAILS

PREPARED BY
Christopher K. Lichhorn
No. 11400758
STATE OF INDIANA
PROFESSIONAL ENGINEER

DRAWN BY
TS
CHECKED BY
KE
DATE
AUGUST 23, 2019
SCALE
AS SHOWN
SHEET

C8.4

CONSTRUCTION DETAILS