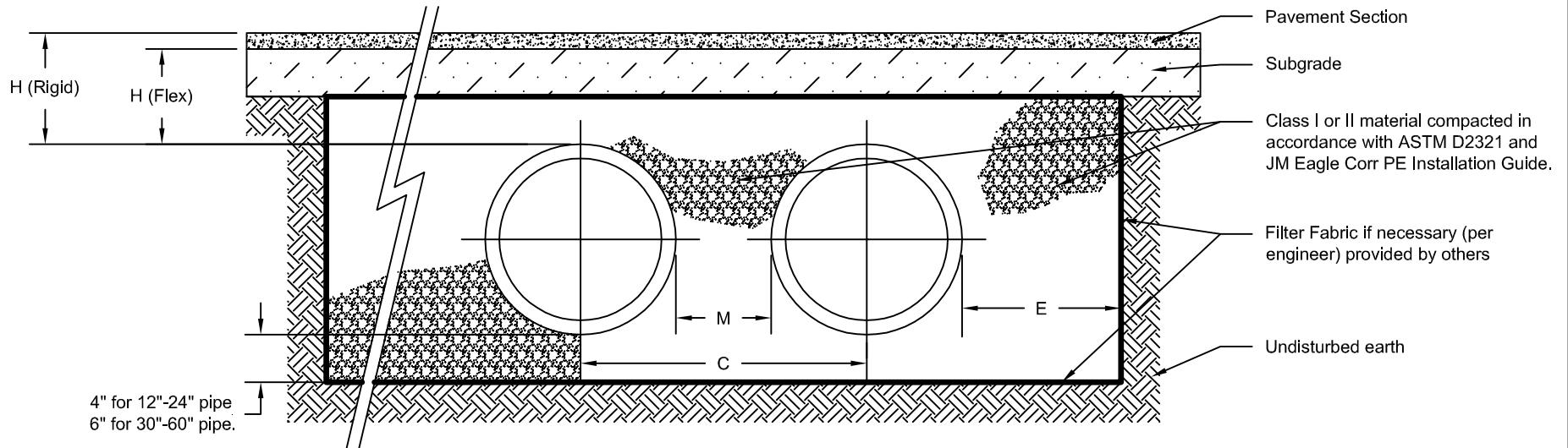


RETENTION & DETENTION SYSTEM CROSS SECTION



NOTES:

1. **INSTALLATION:** ALL RETENTION/DETENTION SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF ASTM D2321 AND JM EAGLE CORR PE INSTALLATION GUIDE.
2. **FOUNDATION:** UNSTABLE TRENCH BOTTOM MATERIAL AND/OR ROCK SHALL BE EXCAVATED TO A DEPTH SPECIFIED BY THE ENGINEER AND REPLACED WITH A SUITABLE MATERIAL PER THE ENGINEER REQUIREMENTS. IN LIEU OF OVER-EXCAVATION, THE DESIGN ENGINEER MAY SPECIFY THE USE OF GEOTEXTILE TO STABILIZE THE TRENCH BOTTOM.
3. **BEDDING:** SUITABLE MATERIAL SHALL BE CLASS I OR II, PER ASTM D2321. MINIMUM BEDDING THICKNESS SHALL BE 4" FOR 4" - 24" DIAMETER PIPE AND 6" FOR 30" - 60" DIAMETER PIPE, PER JM EAGLE CORR PE INSTALLATION GUIDE.
4. **INITIAL BACKFILL:** SUITABLE MATERIAL SHALL BE CLASS I OR II, PER ASTM D2321. BACKFILL SHALL BE INSTALLED IN LIFTS AND COMPACTED, PER ASTM D2321 AND JM EAGLE CORR PE INSTALLATION GUIDE. BACKFILL SHALL EXTEND TO NOT LESS THAN 6" ABOVE THE TOP OF THE PIPE.
5. **GEOTEXTILE FABRIC:** A NON-WOVEN-GEOTEXTILE FABRIC MAY BE USED AS SPECIFIED BY THE ENGINEER TO PREVENT THE MIGRATION OF NATIVE SOILS INTO THE BACKFILL MATERIAL.
6. **MINIMUM COVER:** FOR ALL RETENTION/DETENTION SYSTEM APPLICATIONS, A MINIMUM COVER OF 12" IS REQUIRED FOR 4"-36" DIAMETER PIPE. 18" FOR 42" - 48" DIAMETER PIPE, AND 24" FOR 60" DIAMETER PIPE. MINIMUM COVER IS MEASURED FROM THE TOP OF THE PIPE TO THE TOP OF A RIGID PAVEMENT SECTION OR TO THE BOTTOM OF A FLEXIBLE PAVEMENT SYSTEM.

Pipe I.D.	Pipe O.D.	Minimum Pipe Spacing "M"	Minimum Center on Center "C"	Minimum Edge Spacing "E"	Min. Cover Height	
					H (RIGID)	H (FLEX)
12"	14"	12"	26"	12"	12"	12"
(300 mm)	(363 mm)	(300 mm)	(650 mm)	(300 mm)	(300 mm)	(300 mm)
15"	17"	12"	29"	12"	12"	12"
(375 mm)	(444 mm)	(300 mm)	(725 mm)	(300 mm)	(300 mm)	(300 mm)
18"	21"	12"	33"	12"	12"	12"
(450 mm)	(529 mm)	(300 mm)	(825 mm)	(300 mm)	(300 mm)	(300 mm)
24"	28"	12"	40"	12"	12"	12"
(600 mm)	(700 mm)	(300 mm)	(1000 mm)	(300 mm)	(300 mm)	(300 mm)
30"	35"	15"	50"	18"	12"	12"
(750 mm)	(880 mm)	(375 mm)	(1250 mm)	(450 mm)	(300 mm)	(300 mm)
36"	42"	18"	60"	18"	12"	12"
(900 mm)	(1050 mm)	(450 mm)	(1500 mm)	(450 mm)	(300 mm)	(300 mm)
42"	47"	21"	68"	18"	18"	18"
(1050 mm)	(1204 mm)	(525 mm)	(1725 mm)	(450 mm)	(450 mm)	(450 mm)
48"	54"	24"	78"	18"	18"	18"
(1200 mm)	(1367 mm)	(600 mm)	(1975 mm)	(450 mm)	(450 mm)	(450 mm)
60"	67"	30"	97"	18"	24"	24"
(1500 mm)	(1693 mm)	(750 mm)	(2450 mm)	(450 mm)	(600 mm)	(600 mm)

NOTES:

1. DRAWING NOT TO SCALE.



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DRAWING NO: JME 0321		RET/DET SYSTEM CROSS SECTION	
ACTION	INITIALS	DATE	
DRAWN BY	MWO	01.20.2010	
APPROVED BY	DED	01.22.2010	
REVISION	SUBJECT	INITIALS	DATE
1.	INSTALLATION	MWO	01.05.2012
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