

RIGID OR SEMI-RIGID PIPE PRECAST CIRCULAR MAINTENANCE HOLE SIZING CHART

	NOMINAL PIPE SIZE (mm)	MAINTENANCE HOLE SIZE (MINIMUM) FOR STRAIGHT THROUGH INSTALLATION (mm)	MAINTENANCE HOLE SIZE (MINIMUM) FOR RIGHT ANGLE INSTALLATION (mm)	DESCRIPTION/COMMENT
NON PRESSURE SYSTEM DESIGN	150	1200	1200	
	200	1200	1200	
	250	1200	1200	MINIMUM SANITARY SEWER MAIN DIAMETER AS PER DESIGN CRITERIA
	300	1200	1200	
	375	1200	1200	
	450	1200	1200	
	525	1200	1500	
SEWER PIPES EQUAL TO OR GREATER THAN 600mm SHALL BE PRESSURE SYSTEM DESIGN UNLESS OTHERWISE APPROVED (AWWA C30X SERIES (CPP) AS PER STD. DWGS. SECTION 2-7)				
NON PRESSURE SYSTEM DESIGN AS PER APPROVAL BY REGION	600	1200	1800	
	675	1500	1800	
	750	1500	2400	
	825	1500	2400	
	900	1800	2400	
	1050	2400	3000	
	1200	2400	3000	
	1350	2400	GREATER THAN 3000	ONLY TO BE USED WITH APPROVAL ON PROJECT SPECIFIC DESIGNS. RECTANGULAR OR CAST-IN-PLACE CHAMBERS REQUIRED FOR RIGHT ANGLE INSTALLATIONS.
	1500	3000	GREATER THAN 3000	ONLY TO BE USED WITH APPROVAL ON PROJECT SPECIFIC DESIGNS. RECTANGULAR OR CAST-IN-PLACE CHAMBERS REQUIRED FOR RIGHT ANGLE INSTALLATIONS.
	1650	3000	GREATER THAN 3000	ONLY TO BE USED WITH APPROVAL ON PROJECT SPECIFIC DESIGNS. RECTANGULAR OR CAST-IN-PLACE CHAMBERS REQUIRED FOR RIGHT ANGLE INSTALLATIONS.
1800 to 3000	GREATER THAN 3000	GREATER THAN 3000	ONLY TO BE USED WITH APPROVAL ON PROJECT SPECIFIC DESIGNS. RECTANGULAR OR CAST-IN-PLACE CHAMBERS MAY BE REQUIRED.	

FLEXIBLE PIPE PRECAST CIRCULAR MAINTENANCE HOLE SIZING CHART

	NOMINAL PIPE SIZE (mm)	MAINTENANCE HOLE SIZE (MINIMUM) FOR STRAIGHT THROUGH INSTALLATION (mm)	MAINTENANCE HOLE SIZE (MINIMUM) FOR RIGHT ANGLE INSTALLATION (mm)	DESCRIPTION/COMMENT
NON PRESSURE SYSTEM DESIGN	100	1200	1200	RESIDENTIAL SANITARY SYSTEMS ONLY
	125	1200	1200	RESIDENTIAL SANITARY LATERALS IN R.O.W.
	150	1200	1200	
	200	1200	1200	
	250	1200	1200	MINIMUM SANITARY SEWER MAIN DIAMETER AS PER DESIGN CRITERIA
	300	1200	1200	
	375	1200	1200	
	450	1200	1200	
	525	1200	1200	
	SEWER PIPES EQUAL TO OR GREATER THAN 600mm SHALL BE PRESSURE SYSTEM DESIGN UNLESS OTHERWISE APPROVED (AWWA C30X SERIES (CPP) AS PER STD. DWGS. SECTION 2-7)			
NON PRESSURE SYSTEM DESIGN AS PER APPROVAL BY REGION	600	1200	1500	ONLY APPLICABLE TO LARGER DIAMETER FLEXIBLE PIPE FOR APPROVED PROJECT SPECIFIC DESIGNS
	675	1200	1500	ONLY APPLICABLE TO LARGER DIAMETER FLEXIBLE PIPE FOR APPROVED PROJECT SPECIFIC DESIGNS
	750	1500	1800	ONLY APPLICABLE TO LARGER DIAMETER FLEXIBLE PIPE FOR APPROVED PROJECT SPECIFIC DESIGNS
	900	1500	2400	ONLY APPLICABLE TO LARGER DIAMETER FLEXIBLE PIPE FOR APPROVED PROJECT SPECIFIC DESIGNS
FLEXIBLE PIPES SHALL NOT BE PERMITTED FOR SEWERS GREATER THAN 900mm.				

RECTANGULAR MAINTENANCE HOLE REQUIREMENTS FOR EITHER FLEXIBLE PIPE OR RIGID OR SEMI-RIGID PIPE

PRECAST RECTANGULAR MAINTENANCE HOLES FOR PROJECT SPECIFIC, NON PRESSURE SYSTEM DESIGN SHALL ONLY BE USED WITH WRITTEN APPROVAL FROM AGENCY.

PRECAST RECTANGULAR CHAMBER SIZE SHALL BE DETERMINED DURING PROJECT SPECIFIC DESIGN BASED ON PIPE SIZE, PIPE MATERIAL AND THE SEAL DESIGN TO MATCH SPECIFIC PIPE MATERIAL AND DIAMETER. CAST-IN STYLE SEALS SHALL BE UTILIZED AS PER PROJECT SPECIFIC DESIGN. FORM PRODUCED OR CORED WALL OPENINGS SHALL BE PROVIDED BY PRECAST MANUFACTURER TO MEET REQUIREMENTS OF FLEXIBLE SEAL MANUFACTURER.

IF APPROVED, PRECAST RECTANGULAR MAINTENANCE HOLES SHALL FOLLOW THE DESIGN INTENT OF THE TYPICAL CONFIGURATIONS SHOWN ON STANDARD DRAWINGS 2-5-9, 2-5-10 AND 2-5-11. RECTANGULAR PRECAST CHAMBER SIZES MAY BE 1800x2400, 2400x3000 OR 3000x3800.

NOTE

- REFER TO STANDARD DRAWING 2-5-1 FOR GENERAL NOTES PERTAINING TO PRECAST MAINTENANCE HOLES.
- REFER TO STANDARD DRAWING 2-5-2, 2-5-9 FOR TYPICAL INSTALLATION OPTIONS AND REQUIREMENTS.
- FOR PIPE SIZE LESS THAN 600mmØ NON PRESSURE DESIGN IS PERMITTED. PIPE SIZES EQUAL TO OR GREATER THAN 600mmØ SHALL BE DESIGNED TO PRESSURE.
- THIS STANDARD DRAWING IS FOR REFERENCE IN NON PRESSURE GRAVITY DESIGN ONLY. REFER TO STANDARD DRAWINGS SECTION 2-7 FOR AWWA C30X SERIES (CPP) PRESSURE TESTED SANITARY SYSTEMS.



PUBLIC WORKS STANDARD DRAWING

NEW SANITARY SEWER CONSTRUCTION PIPE SIZE REFERENCE FOR PRECAST MAINTENANCE HOLES

REV. DATE: AUGUST 2020

REVISION NUMBER: 2 FOR REVISION TRACKING REFER TO STD. DWG. 2-0-2

APPROVED BY DRAWN BY

A.P. AINLEY GROUP

STD. DWG. NUMBER SCALE

2-5-21 N.T.S.