



B	T	D, E, H & G BARS	F BARS
300 mm (12")	130 mm (5")	#16M (#5)	#13M @ 150 mm (#4 @ 6") OC
375 mm (15")	130 mm (5")		
450 mm (18")	130 mm (5")		
525 mm (21")	130 mm (5")		
600 mm (24")	140 mm (5 1/4")		
675 mm (27")	140 mm (5 1/2")		
750 mm (30")	160 mm (6")		
825 mm (33")	160 mm (6 1/4")		
975 mm (36")	170 mm (6 1/2")		
990 mm (39")	180 mm (7")		
1050 mm (42")	190 mm (7 1/2")		
1125 mm (45")	200 mm (7 3/4")		
1220 mm (48")	210 mm (8")		
1275 mm (51")	220 mm (8 1/2")		
1350 mm (54")	230 mm (9")		
1500 mm (57")	240 mm (9 1/4")		
1500 mm (60")	240 mm (9 1/2")		
1650 mm (63")	260 mm (10")		
1680 mm (66")	260 mm (10 1/4")		
1800 mm (69")	280 mm (10 3/4")		
1850 mm (72")	280 mm (11")		
1950 mm (78")	300 mm (11 3/4")		
2100 mm (84")	320 mm (12 1/2")		
2400 mm (90")	340 mm (13 1/4")		
2440 mm (96")	360 mm (14")		
2550 mm (102")	400 mm (15 1/2")		
2700 mm (108")	410 mm (16")		
3000 mm (114")	420 mm (16 1/2")		
3050 mm (120")	430 mm (17")		
3150 mm (126")	430 mm (17")		
3300 mm (132")	450 mm (17 1/2")		
3450 mm (138")	450 mm (17 1/2")		
3600 mm (144")	460 mm (18")		
		#19M (#6)	#15M @ 150 mm (#5 @ 6") OC
		#22M (#7)	#16M @ 150 mm (#5 @ 6") OC

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

PROMULGATED BY THE PUBLIC WORKS STANDARDS INC. GREENBOOK COMMITTEE 1984 REV. 1996	<h2 style="margin: 0;">JUNCTION STRUCTURE - PIPE TO RCB</h2>	STANDARD PLAN METRIC <h1 style="margin: 0;">333-1</h1>
USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION		SHEET 1 OF 2

NOTES

1. VALUES FOR A, B AND C SHALL BE SHOWN ON THE PLANS. ELEVATION R AND ELEVATION S SHALL BE SHOWN WHEN REQUIRED PER NOTE 8.
2. STATIONS SPECIFIED ON THE PLANS APPLY AT THE INTERSECTION OF CENTERLINES OF MAIN LINE AND LATERALS, EXCEPT THAT STATIONS FOR CATCH BASIN CONNECTOR PIPES APPLY AT INSIDE WALL OF STRUCTURE.
3. REINFORCING STEEL SHALL CONFORM TO ASTM A 615M, GRADE 300, (ASTM A 615, GRADE 40), AND SHALL TERMINATE 40 mm (1 1/2") CLEAR OF CONCRETE SURFACE UNLESS OTHERWISE SHOWN.
 - a. W BARS ARE OF SIZE AND SPACING SPECIFIED FOR WALL STEEL ON PLANS, AND SHALL BE CUT IN CENTER OF OPENING AND BENT INTO TOP AND BOTTOM OF JUNCTION STRUCTURE.
 - b. OMIT H BARS WHEN SOFFIT OF SPUR IS 300 mm (12") OR LESS BELOW SOFFIT OF MAIN LINE, AND OMIT G BARS WHEN INVERT OF SPUR IS 300 mm (12") OR LESS ABOVE FLOOR OF MAIN LINE.
4. JUNCTION STRUCTURE SHALL BE POURED MONOLITHICALLY WITH MAIN LINE, MANHOLE OR TRANSITION STRUCTURE.
5. FLOOR OF STRUCTURE SHALL BE STEEL-TROWELED TO THE SPRING LINE.
6. WHEN CONNECTING TO EXISTING RCB, BREAKOUT LIMITS AND DETAILS SHALL BE SHOWN ON THE PLANS.
7. EMBEDMENT, P, SHALL BE 130 mm (5") FOR B = 2400 mm (96") OR LESS 200 mm (8") FOR B OVER 2400 mm (96").
8. IF ELEVATION R AND ELEVATION S ARE NOT SHOWN ON THE PLANS THEN THE INLET OPENING SHALL FALL 150 mm (6") BELOW THE SOFFIT OF THE MAIN LINE WITH THE INLET PIPE LAID ON A STRAIGHT GRADE FROM MAIN LINE TO CATCH BASIN OR TO GRADE BREAK IN INLET LINE. ELEVATION S SHALL BE SHOWN ON THE PLANS IF THE INLET OPENING FALLS MORE THAN 150 mm (6") BELOW THE SOFFIT OF THE MAIN LINE WITH THE INLET PIPE LAID ON A STRAIGHT GRADE AS STATED ABOVE. ELEVATION R SHALL BE SHOWN ON THE PLANS ONLY WHEN A STUB IS TO BE PROVIDED FOR A FUTURE CONNECTION.
9. LATERALS OR CONNECTOR PIPES 600 mm (24") OR LESS IN DIAMETER SHALL BE NO MORE THAN 1.5 m (5') ABOVE THE INVERT. LATERALS OR CONNECTOR PIPES 675 mm (27") OR LARGER IN DIAMETER SHALL BE NO MORE THAN 450 mm (18") ABOVE THE INVERT, WITH THE EXCEPTION THAT CATCH BASIN CONNECTOR PIPES LESS THAN 15 m (50') IN LENGTH SHALL NOT BE MORE THAN 1.5 m (5') ABOVE THE INVERT.
10. THE NEED FOR AN EDGE BEAM AND/OR ADDITIONAL REINFORCEMENT SHALL BE INVESTIGATED BY THE ENGINEER FOR ANY ONE OF THE FOLLOWING CONDITIONS:
 - a. ANGLE A IS LESS THAN 30°
 - b. TOP OF INLET PIPE IS LESS THAN 150 mm (6") BELOW THE SOFFIT
 - c. FLOW LINE OF INLET PIPE IS LESS THAN 180 mm (7") ABOVE THE THE FLOOR OF THE RCB AT THE INSIDE FACE

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

JUNCTION STRUCTURE – PIPE TO RCB

STANDARD PLAN
METRIC

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