

TABLE OF VALUES FOR F

D ₂	F
36" (900 mm)	6 1/2" (165 mm)
39" (975 mm)	7" (180 mm)
42" (1050 mm)	7 1/2" (190 mm)
45" (1125 mm)	7 3/4" (195 mm)
48" (1200 mm)	8" (205 mm)
51" (1275 mm)	8 1/2" (215 mm)
54" (1350 mm)	9" (230 mm)
57" (1425 mm)	9 1/4" (235 mm)
60" (1500 mm)	9 1/2" (240 mm)
63" (1575 mm)	10" (255 mm)
66" (1650 mm)	10 1/4" (260 mm)
69" (1725 mm)	10 3/4" (275 mm)
72" (1800 mm)	11" (280 mm)
78" (1950 mm)	11 3/4" (300 mm)
84" (2100 mm)	12 1/2" (320 mm)
90" (2250 mm)	13 1/4" (335 mm)
96" (2400 mm)	14" (355 mm)
102" (2550 mm)	15 1/2" (395 mm)
108" (2700 mm)	16" (405 mm)
114" (2850 mm)	16 1/2" (420 mm)
120" (3000 mm)	17" (430 mm)
126" (3150 mm)	17 1/2" (440 mm)
132" (3300 mm)	17 1/2" (445 mm)
138" (3450 mm)	17 1/2" (445 mm)
144" (3600 mm)	18" (455 mm)

TABLE OF VALUES FOR M (SEE NOTE 1)

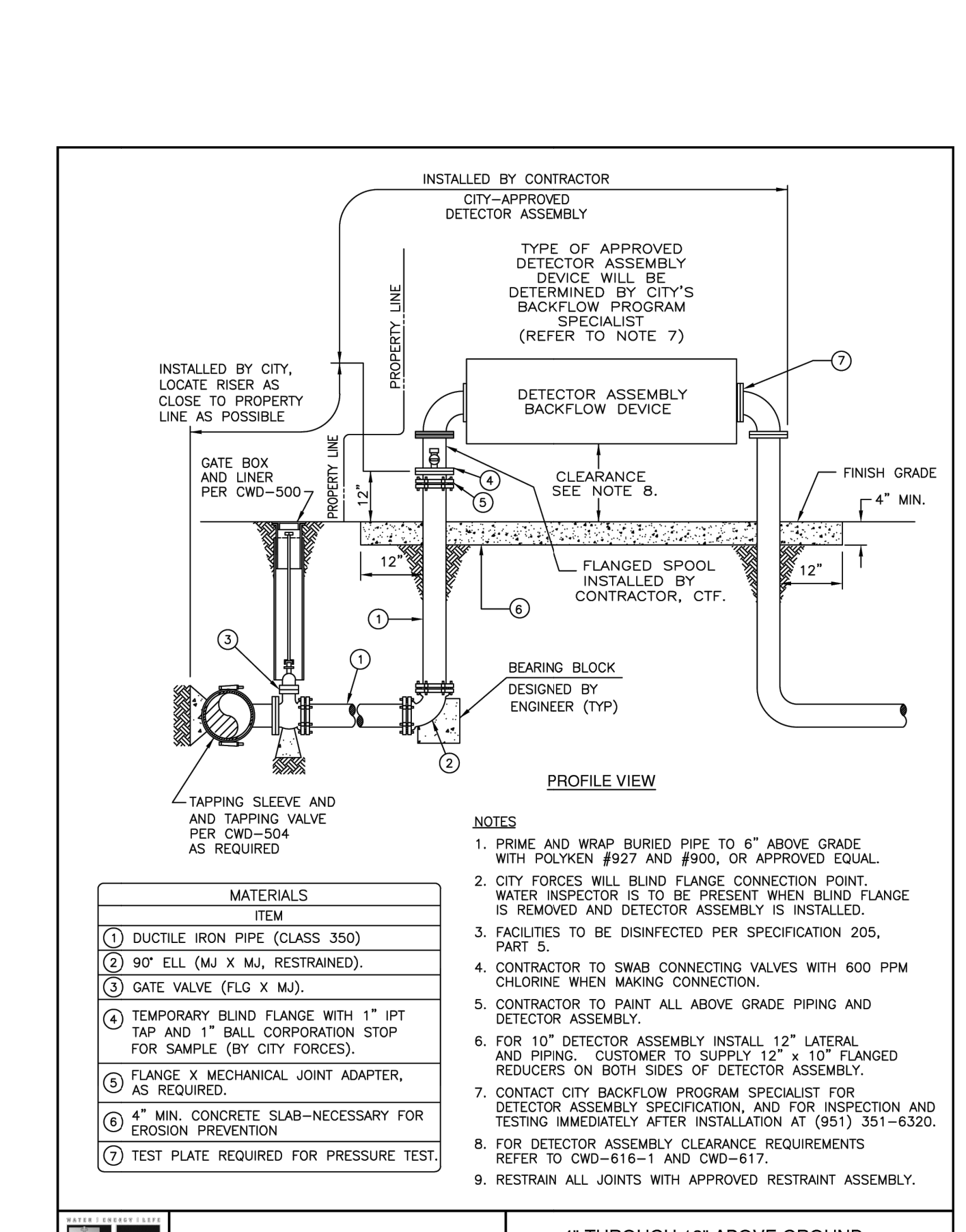
SECTION	PAVED STREET		UNPAVED STREET	
	MAX	MIN	MAX	MIN
A-A	2'-10 1/2" (867 mm)	16"	3'-6" (1060 mm)	15"
C-C	11" (282 mm)	8 1/2" (217 mm)	16" (410 mm)	15" (380 mm)

NOTES

- WHEN DEPTH M FROM STREET GRADE TO THE TOP OF THE BOX IS LESS THAN 2'-10 1/2" (867 mm) FOR PAVED STREETS OR 3'-6" (1060 mm) FOR UNPAVED STREETS, CONSTRUCT MONOLITHIC SHAFT PER SECTION C-C AND DETAIL "N". SHAFT FOR ANY DEPTH OF MANHOLE MAY BE CONSTRUCTED PER SECTION C-C. WHEN DIAMETER D₁ IS 48" (1200 mm) OR LESS, CENTER OF SHAFT MAY BE LOCATED PER NOTE 2.
- CENTER OF MANHOLE SHAFT SHALL BE LOCATED OVER CENTER LINE OF STORM DRAIN WHEN DIAMETER D₁ IS 48" (1200 mm) OR LESS, IN WHICH CASE PLACE E BARS SYMMETRICALLY AROUND SHAFT AT 45° WITH CENTERLINE AND OMIT J BARS.
- L AND P SHALL HAVE THE FOLLOWING VALUES UNLESS OTHERWISE SHOWN ON THE PROJECT DRAWINGS:
 - A. D₂ = 96" (2400 mm) OR LESS, L = 5'-8" (1.7 m), P = 5" (130 mm)
 - B. D₂ OVER 96" (2400 mm), L = 6'-0" (1.8 m), P = 8" (210 mm)
 - L MAY BE INCREASED OR LOCATION OF MANHOLE SHIFTED TO MEET PIPE ENDS, WHEN L GREATER THAN THAT SHOWN ABOVE IS SPECIFIED, D BARS SHALL BE CONTINUED 6" (150 mm) OC.
- STATIONS OF MANHOLES SHOWN ON PLANS APPLY AT CENTERLINE OF SHAFT. ELEVATIONS ARE SHOWN AT CENTERLINE OF SHAFT AND REFER TO THE PROLONGED INVERT GRADE LINES.
- REINFORCEMENT SHALL CONFORM TO ASTM A 615M, GRADE 300 (ASTM A 615, GRADE 40), AND SHALL TERMINATE 1 1/2" (40 mm) CLEAR OF CONCRETE SURFACES UNLESS OTHERWISE SHOWN.
- FLOOR OF MANHOLE SHALL BE STEEL TROWELED TO SPRING LINE.
- BODY OF MANHOLE SHALL BE POURED IN ONE CONTINUOUS OPERATION EXCEPT THAT A CONSTRUCTION JOINT WITH A LONGITUDINAL KEYWAY MAY BE PLACED AT SPRING LINE.
- THICKNESS OF THE DECK SHALL VARY WHEN NECESSARY TO PROVIDE A LEVEL SEAT BUT SHALL NOT BE LESS THAN THE TABULAR VALUES FOR F SHOWN ON SHEET 2.
- D BARS SHALL BE #4 (#13M) FOR D₂ = 39" (975 mm) OR LESS, #5 (#16M) FOR D₂ = 90" (2250 mm) OR OVER.
- CENTERLINE OF INLET PIPE SHALL INTERSECT INSIDE FACE OF CONE AT SPRING LINE UNLESS OTHERWISE SHOWN.
- STEPS SHALL CONFORM TO SPPWC 635 OR 636, UNLESS OTHERWISE SHOWN. STEPS SHALL BE UNIFORMLY SPACED 14" (355 mm) TO 15" (375 mm) OC. THE LOWEST STEP SHALL NOT BE MORE THAN 24" (600 mm) ABOVE THE INVERT.
- THE FOLLOWING CRITERIA SHALL BE USED FOR THIS MANHOLE:
 - A. MAIN LINE = 36" (900 mm) INSIDE DIAMETER OR LARGER, EXCEPT IF THE MAIN LINE RCP DOWNSTREAM OF MANHOLE IS 36" (900 mm) TO 42" (1050 mm) INSIDE DIAMETER AND THE MAIN LINE RCP UPSTREAM IS 33" (825 mm) OR LESS SPPWC 321 SHALL BE USED.

NOTES

- THE OUTSIDE DIAMETER OF THE LATERAL MUST BE LESS THAN OR EQUAL TO 2'-10 1/2" (867 mm) INSIDE DIAMETER OF THE MAIN LINE. IF THE UPSTREAM AND DOWNSTREAM DIAMETERS OF THE MANHOLE ARE NOT THE SAME, THE GOVERNING INSIDE DIAMETER OF THE MAIN LINE SHALL BE CONSIDERED TO BE THAT WHERE THE EXTENDED CENTERLINE OF THE LATERAL ENTERS THE MANHOLE.
- IN NO INSTANCE SHALL THE INSIDE DIAMETER OF THE LATERAL TO THE MANHOLE BE GREATER THAN 30" (750 mm).
- MANHOLE FRAME AND COVER SHALL CONFORM TO SPPWC 630 UNLESS OTHERWISE SHOWN.
- MANHOLE SHAFT SHALL CONFORM TO SPPWC 324 UNLESS OTHERWISE SHOWN.
- WHERE A MANHOLE SHAFT = 36" (900 mm) WITHOUT REDUCER IS SPECIFIED REFER TO SPPWC 326.
- WHERE A PRESSURE MANHOLE SHAFT = WITH ECCENTRIC REDUCER IS SPECIFIED REFER TO SPPWC 328.
- WHERE A PRESSURE MANHOLE SHAFT = 914 mm (36") WITHOUT REDUCER IS SPECIFIED REFER TO SPPWC 329.
- THE FOLLOWING SPPWC ARE INCORPORATED HEREIN:
 - 324 MANHOLE SHAFT - WITH ECCENTRIC REDUCER
 - 326 MANHOLE SHAFT - 36" (900 mm) WITHOUT REDUCER
 - 328 PRESSURE MANHOLE SHAFT - WITH ECCENTRIC REDUCER
 - 329 PRESSURE MANHOLE SHAFT 36" (914 mm) WITHOUT REDUCER
 - 630 24" (610 mm) MANHOLE FRAME AND COVER
 - 633 36" (914 mm) MANHOLE FRAME AND COVER
 - 635 STEEL STEP
 - 636 POLYPROPYLENE PLASTIC STEP



STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
MANHOLE PIPE-TO-PIPE MAIN LINE ID = 36" (900 mm) OR LARGER
 320-2
 SHEET 1 OF 4

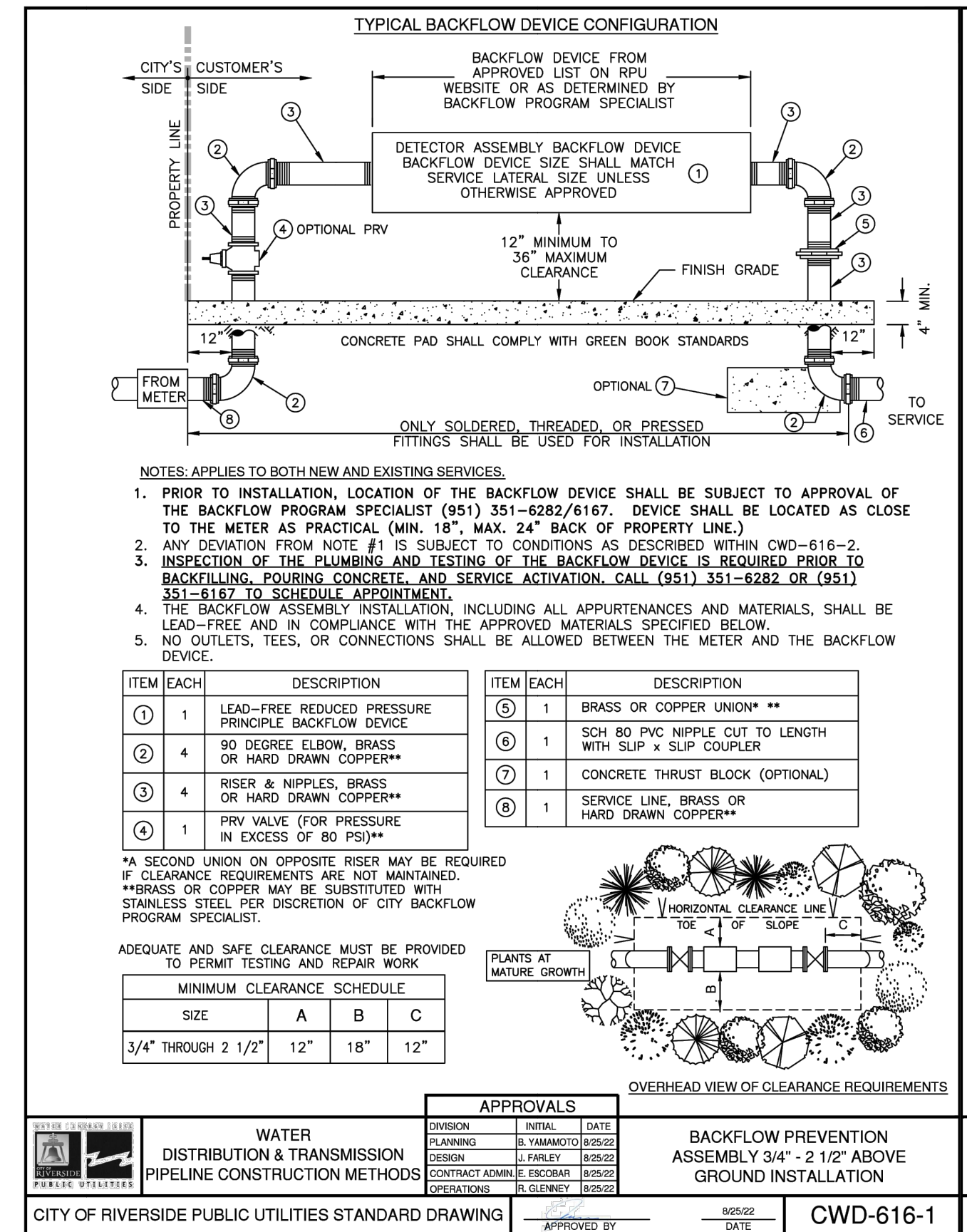
STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
MANHOLE PIPE-TO-PIPE MAIN LINE ID = 36" (900 mm) OR LARGER
 320-2
 SHEET 2 OF 4

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
MANHOLE PIPE-TO-PIPE MAIN LINE ID = 36" (900 mm) OR LARGER
 320-2
 SHEET 3 OF 4

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
MANHOLE PIPE-TO-PIPE MAIN LINE ID = 36" (900 mm) OR LARGER
 320-2
 SHEET 4 OF 4

SPPWC 320-2 STORM DRAIN MANHOLE
 N.T.S.

CITY OF RIVERSIDE STD CWD-615
 N.T.S.

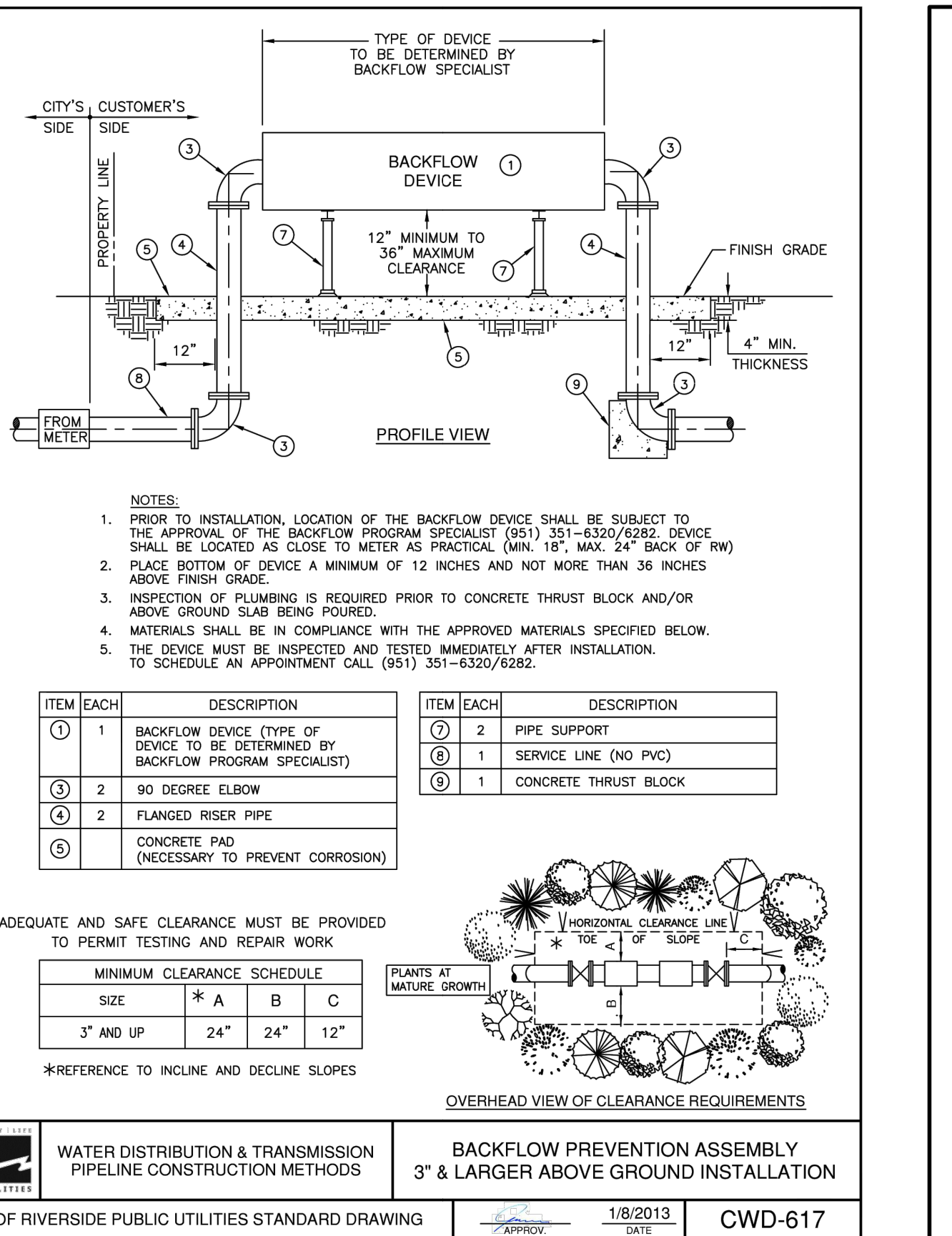


PRIVATE SERVICE LINE ENCASEMENT

ITEM	EACH	DESCRIPTION
1	1	4" CONCRETE ENCASEMENT ALL SIZES
2	1	BRASS OR COPPER WATER SERVICE LINE
3	1	CORROSION BARRIER

CONDITIONS:

- A DRAWING DEPICTING THE PROPOSED PATH OF PIPING FROM THE WATER METER TO THE BACKFLOW DEVICE AND THE FINAL LOCATION OF DEVICE MUST BE SUBMITTED TO PUBLIC UTILITIES FOR APPROVAL.
- ONCE APPROVED, INSTALLER MUST COORDINATE WITH THE BACKFLOW PROGRAM SPECIALIST TO OVERSEE, INSPECT, AND DOCUMENT THE INSTALLATION. CORROSION BARRIER TO BE INSPECTED PRIOR TO POURING OF CONCRETE.
- MATERIALS SHALL REMAIN IN COMPLIANCE AS SPECIFIED WITHIN CWD-616-1.
- MATERIALS SHALL BE IN COMPLIANCE WITH THE APPROVED MATERIALS SPECIFIED ON THE TABLE ABOVE.



BACKFLOW DEVICE CONFIGURATION

ITEM	EACH	DESCRIPTION
1	1	BACKFLOW DEVICE (TYPE OF DEVICE TO BE DETERMINED BY BACKFLOW PROGRAM SPECIALIST)
2	1	NO 90 DEGREE ELBOW
3	1	FLANGED IRON PIPE
4	1	CONCRETE PAD (NECESSARY TO PREVENT CORROSION)

MINIMUM CLEARANCE SCHEDULE

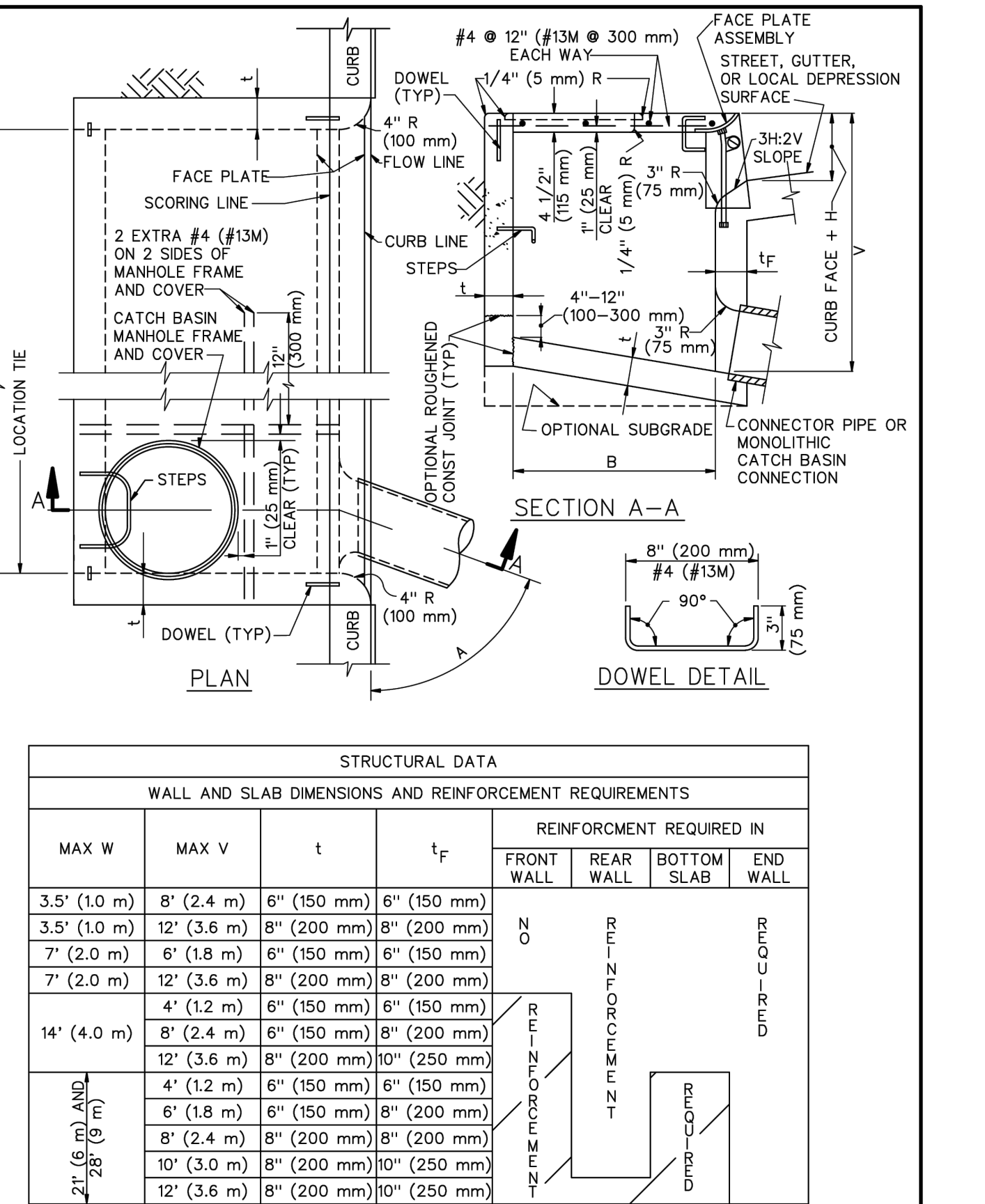
SIZE	A	B	C
3" AND UP	24"	24"	12"

CITY OF RIVERSIDE STD CWD-616
 N.T.S.

CITY OF RIVERSIDE PUBLIC UTILITIES STANDARD DRAWING
 1/8/2013
 CWD-616-2

CITY OF RIVERSIDE STD CWD-617
 N.T.S.

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
CURB OPENING CATCH BASIN
 300-4
 SHEET 1 OF 1



STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
CURB OPENING CATCH BASIN
 300-4
 SHEET 1 OF 1

APPROVED BY: [Signature] DATE: [Date]
 CITY OF RIVERSIDE PUBLIC UTILITIES STANDARD DRAWING
 1/8/2013
 CWD-616-1

APPROVED BY: [Signature] DATE: [Date]
 CITY OF RIVERSIDE PUBLIC UTILITIES STANDARD DRAWING
 1/8/2013
 CWD-616-2

APPROVED BY: [Signature] DATE: [Date]
 CITY OF RIVERSIDE PUBLIC UTILITIES STANDARD DRAWING
 1/8/2013
 CWD-617

APPROVED BY: [Signature] DATE: [Date]
 CITY OF RIVERSIDE PUBLIC UTILITIES STANDARD DRAWING
 1/8/2013
 CWD-615

APPROVED BY: [Signature] DATE: [Date]
 CITY OF RIVERSIDE PUBLIC UTILITIES STANDARD DRAWING
 1/8/2013
 CWD-615



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PROJECT: P24659.00
PACIFIC GROVE ACUTE PSYCHIATRIC FACILITY

5900 BROCKTON AVE., RIVERSIDE, CA 92506

DESIGN DEVELOPMENT PACKAGE 1 - SITE

DATE: [Date]

REVISIONS	DESCRIPTION	DATE

HCAI H241744-33-00
 APPROVAL STAMP

SHEET TITLE

DETAILS

SHEET NUMBER

C7.2