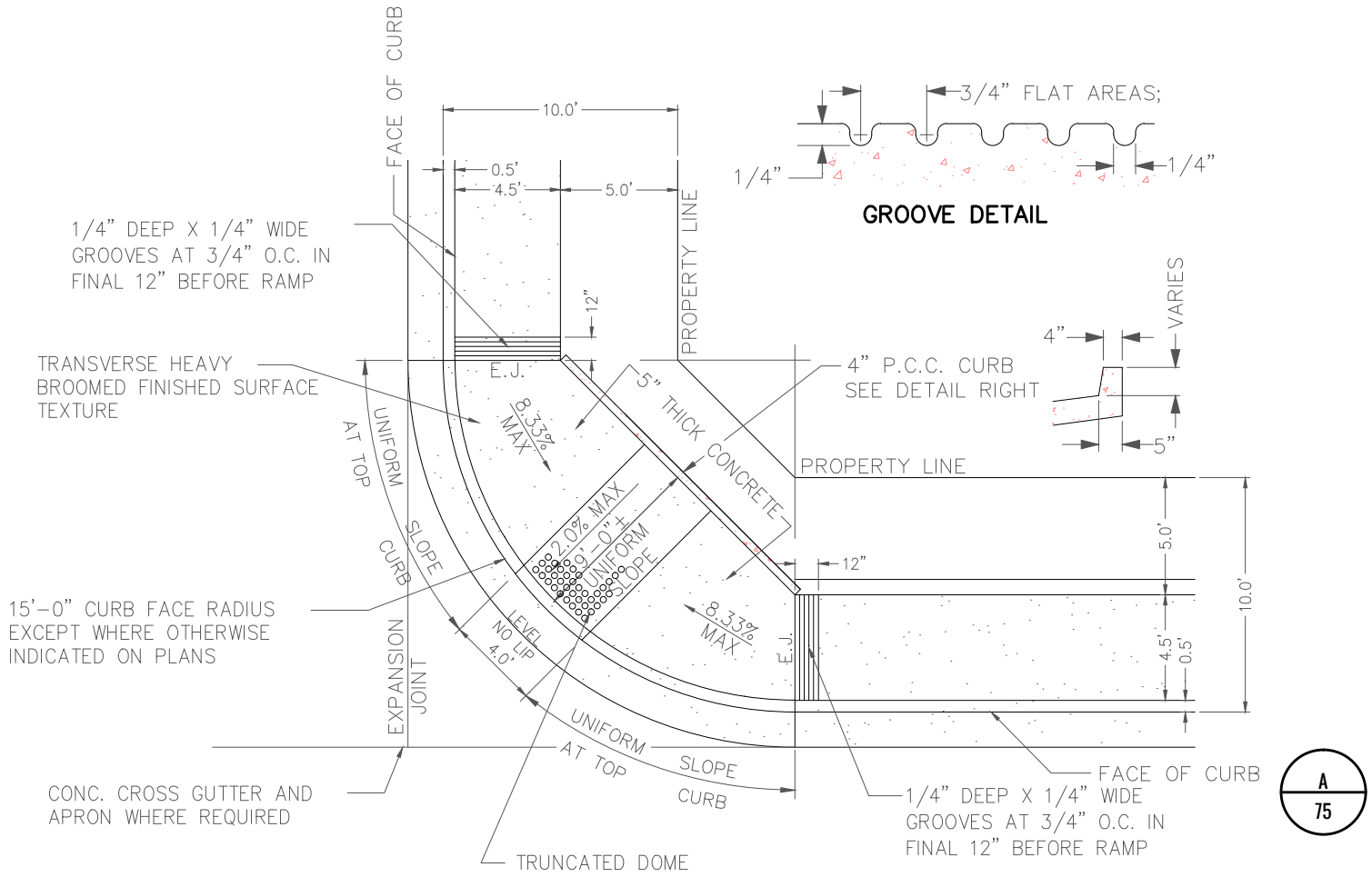
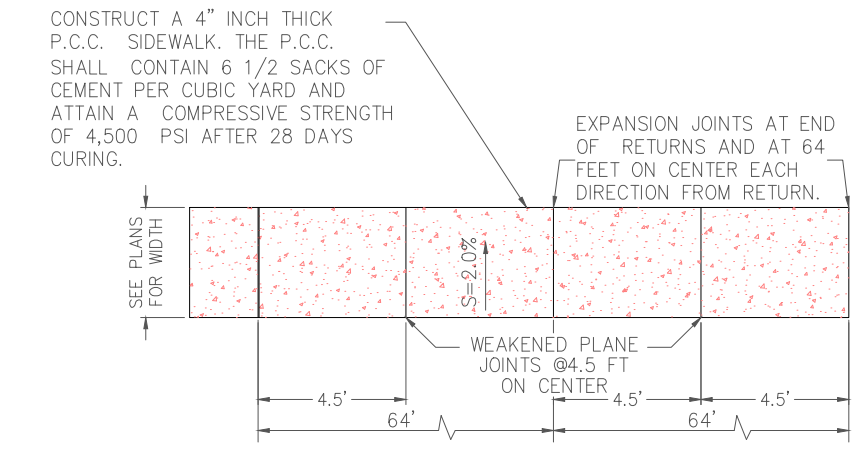


A
75

HANDICAP ACCESS RAMP & CURB RETURN DETAIL NTS

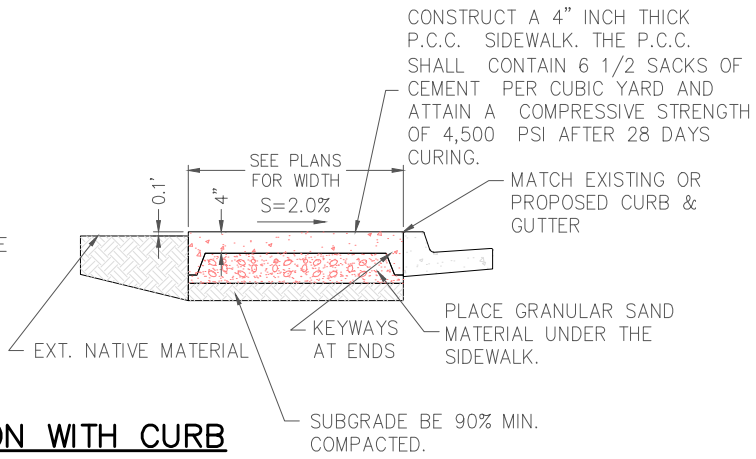


SIDEWALK PLAN

NOTES SIDEWALK

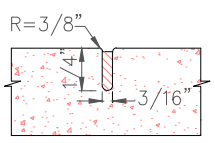
1. **PLACE EXPANSION JOINT ALONG SIDEWALK AND CURB AND GUTTER EVERY 64 FEET . EXPANSION JOINT MATERIAL TO BE COMPOSED OF 1/2" FIBER BOARD INSTALLED ACROSS FULL SECTION OF CURB AND GUTTER AND SIDEWALK.**

2. **THE P.C.C. SHALL CONTAIN 6 1/2 SACKS OF CEMENT PER CUBIC YARD AND ATTAIN A COMPRESSIVE STRENGTH OF 4,500 PSI AFTER 28 DAYS CURING.**



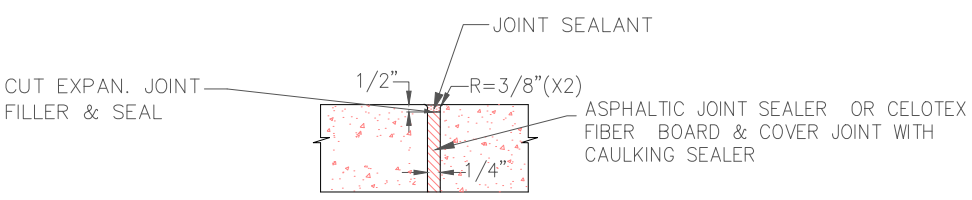
SECTION WITH OUT CURB

SECTION WITH CURB



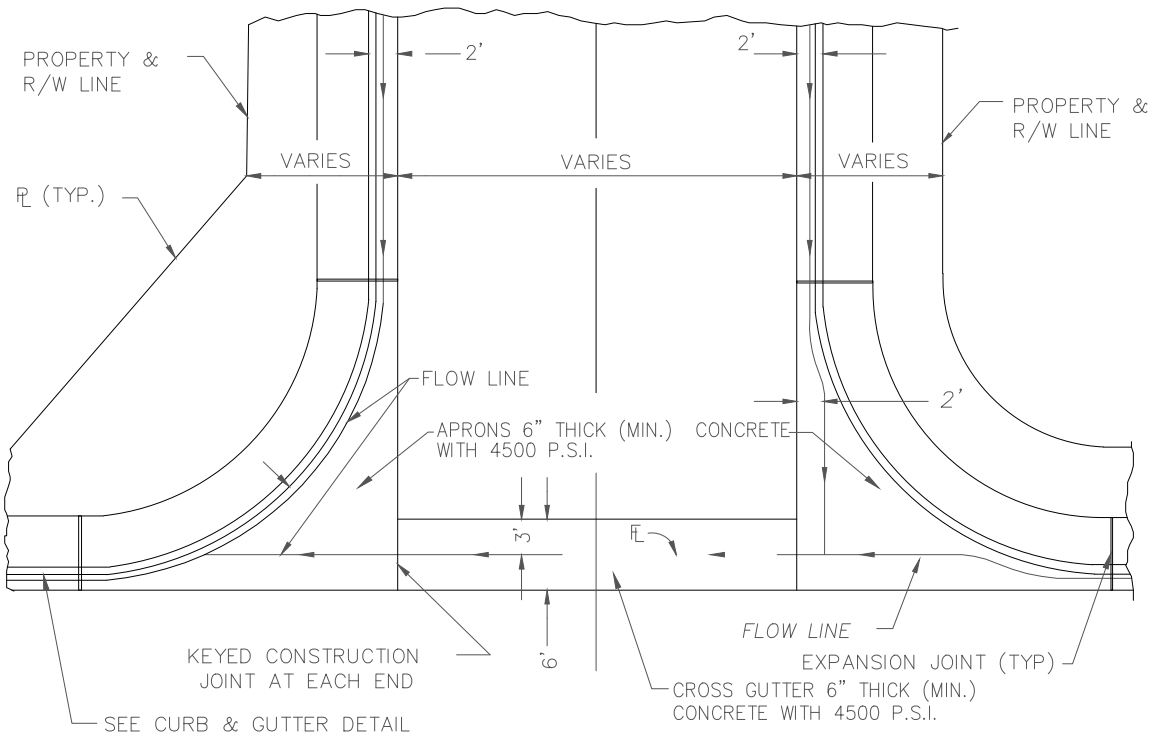
WEAKENED PLANE JOINT

B
75

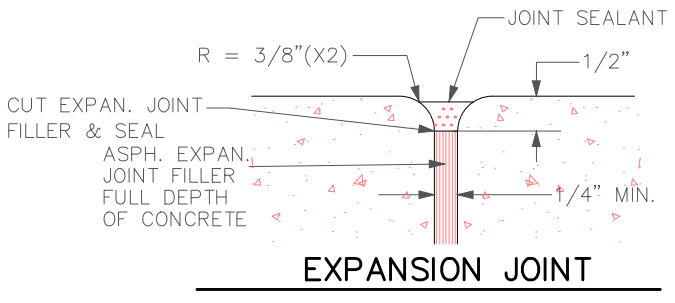


EXPANSION JOINT

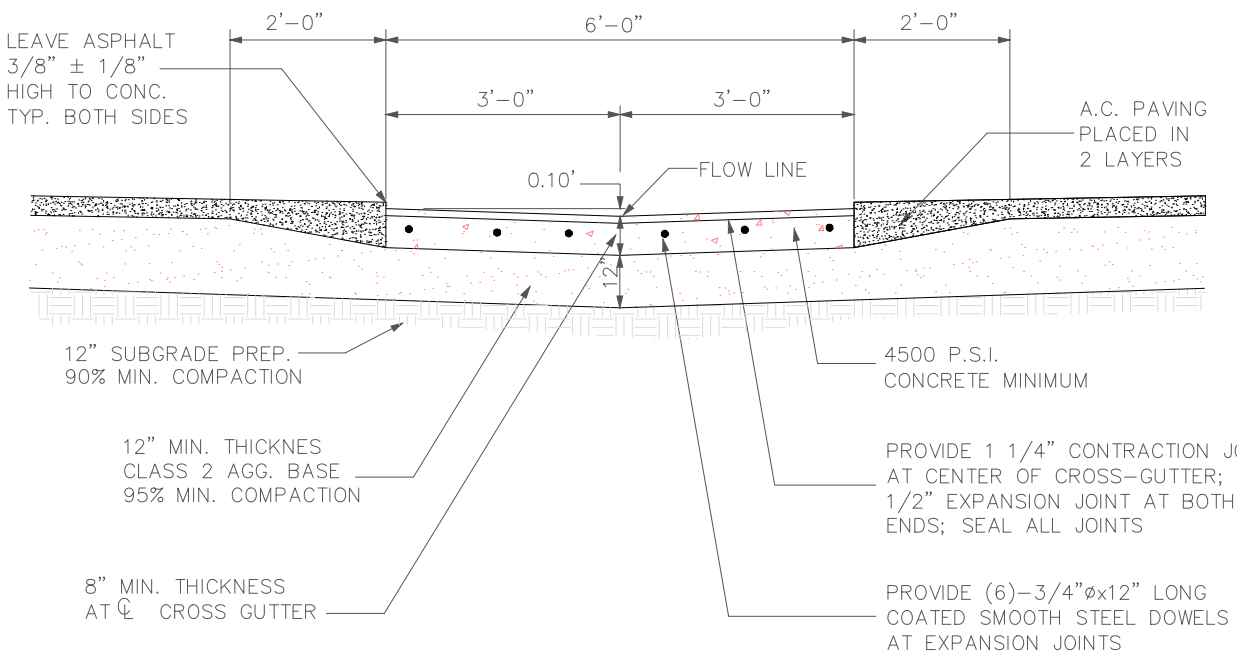
SIDEWALK DETAIL NTS



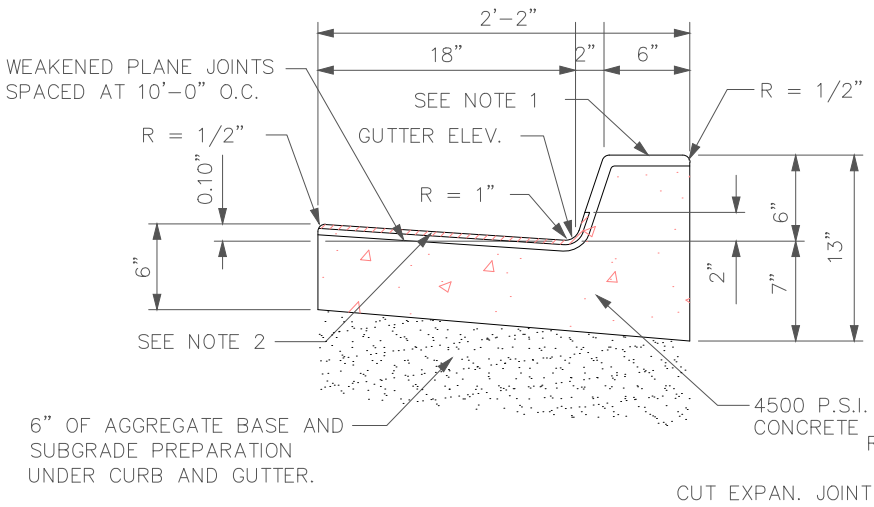
CROSS GUTTER LAYOUT NTS

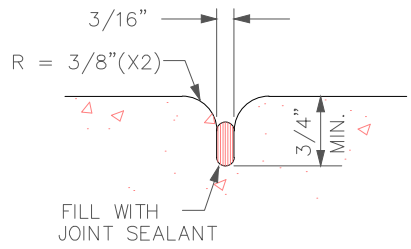


EXPANSION JOINT



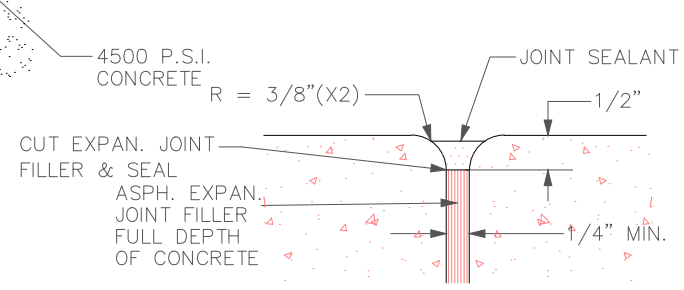
CROSS GUTTER SECTION NTS





WEAKENED PLANE JOINT

AT 10'-0" O.C. TYPICAL



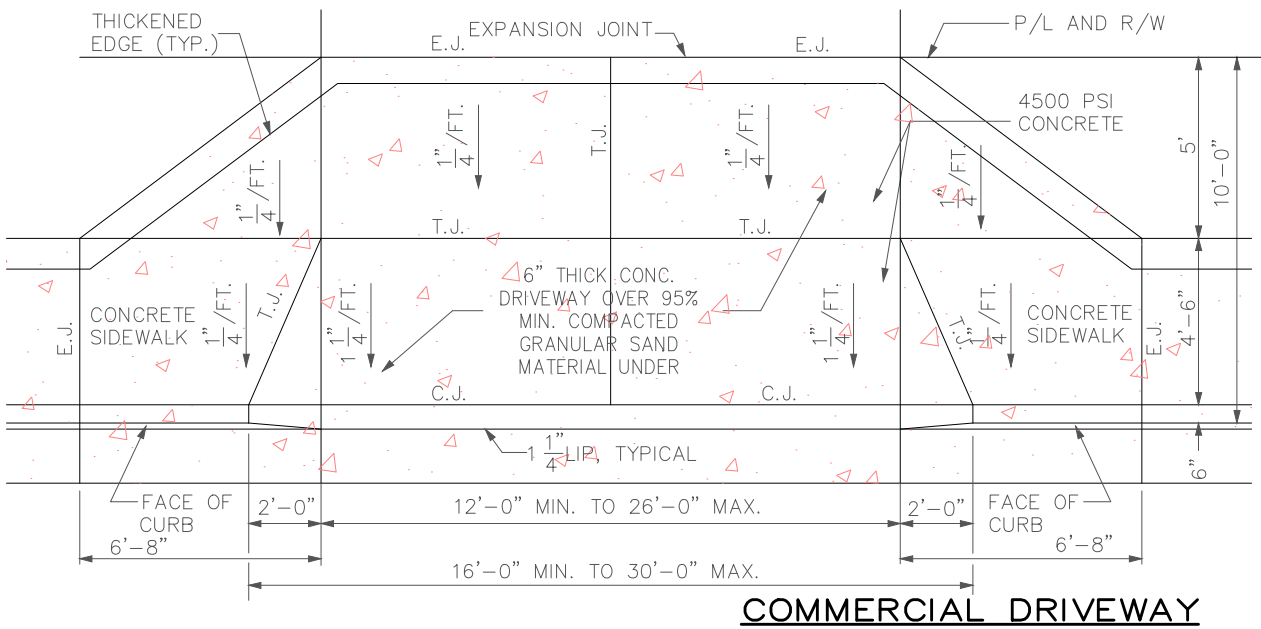
EXPANSION JOINT

AT 40'-0" O.C. TYPICAL AND AT ALL STRUCTURES, DRIVEWAYS AND RETURNS

NOTES:

1. **PLACE "S" (STAMPED), AND "G" (CHIPPED) IN TOP OF CURB FOR SHOWING THE RESPECTIVE LOCATION OF SEWER AND GAS SERVICES.**
   "W" (STAMPED)– WATER SERVICE
2. **EXTEND JOINT SEALANT ACROSS GUTTER AND 2" UP CURB FACE, ALL JOINTS.**
3. **SUBGRADE FOR CURB SHALL BE 90% MIN. COMPACTED.**

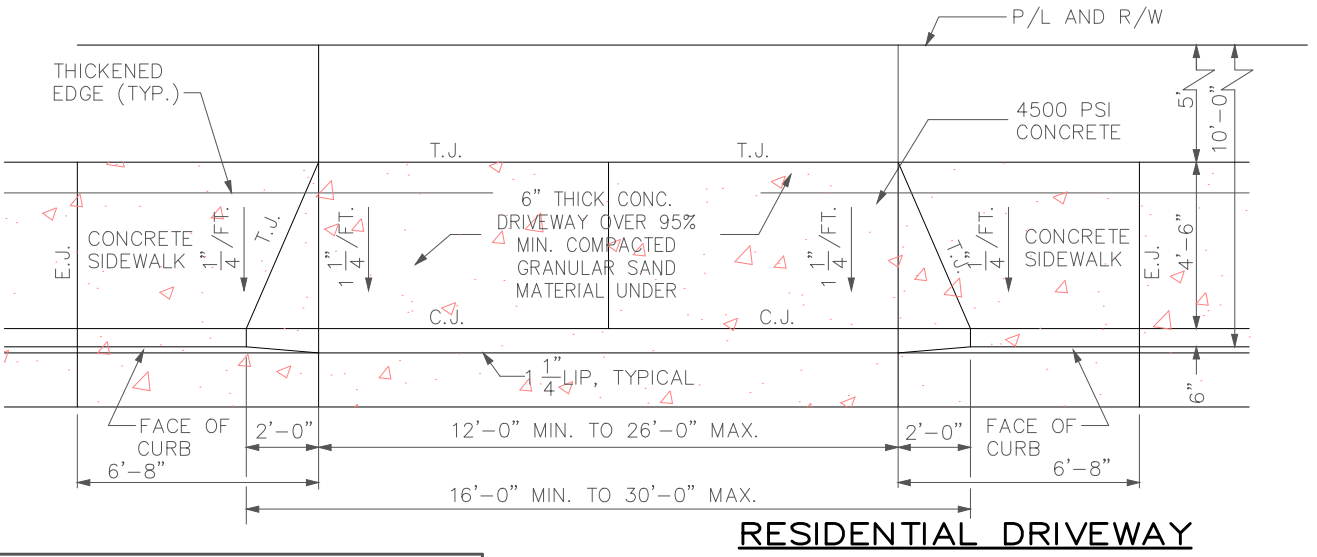
CURB DETAIL NTS



COMMERCIAL DRIVEWAY

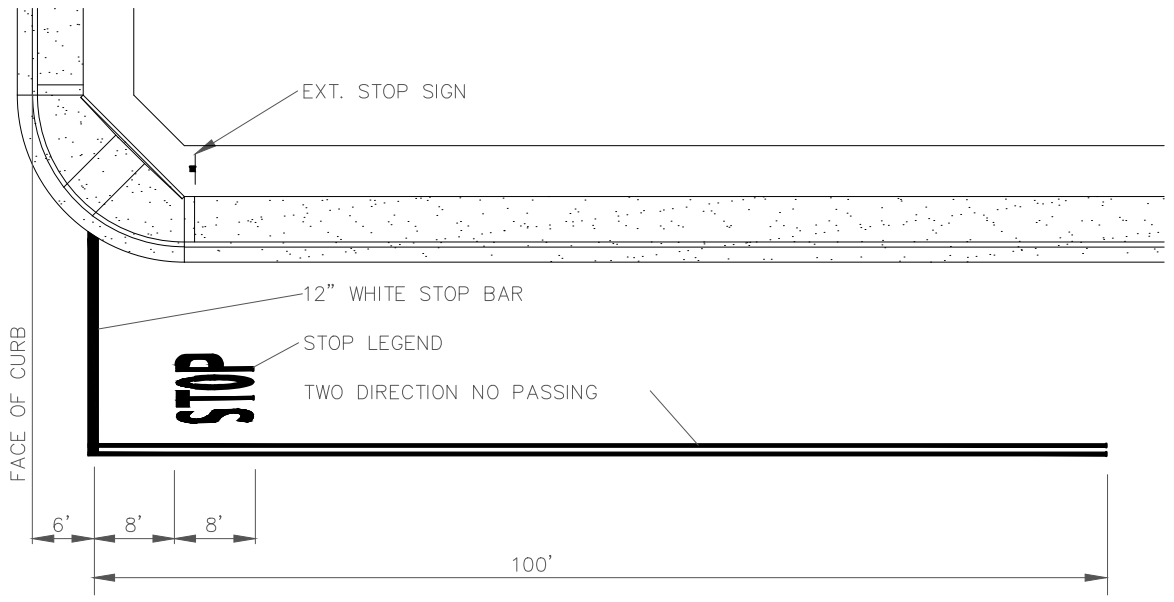
NOTES:

1. **PLACE EXPANSION JOINT ALONG SIDEWALK AND CURB AND GUTTER EVERY 64 FEET . EXPANSION JOINT MATERIAL TO BE COMPOSED OF 1/2" FIBER BOARD INSTALLED ACROSS FULL SECTION OF CURB AND GUTTER AND SIDEWALK.**
2. **THE P.C.C. SHALL CONTAIN 6 1/2 SACKS OF CEMENT PER CUBIC YARD AND ATTAIN A COMPRESSIVE STRENGTH OF 4,500 PSI AFTER 28 DAYS CURING.**
3. **6" INCH THICK P.C.C. THE P.C.C. SHALL CONTAIN 6 1/2 SACKS OF CEMENT PER CUBIC YARD AND ATTAIN A COMPRESSIVE STRENGTH OF 4,500 PSI AFTER 28 DAYS CURING. OVER 8" COMPACT GRAVEL.**
4. **NATIVE SOIL TO BE MOISTEN AT TIME OF POURING CONCRETE MINIMUM 90% MOISTURE CONTENT.**

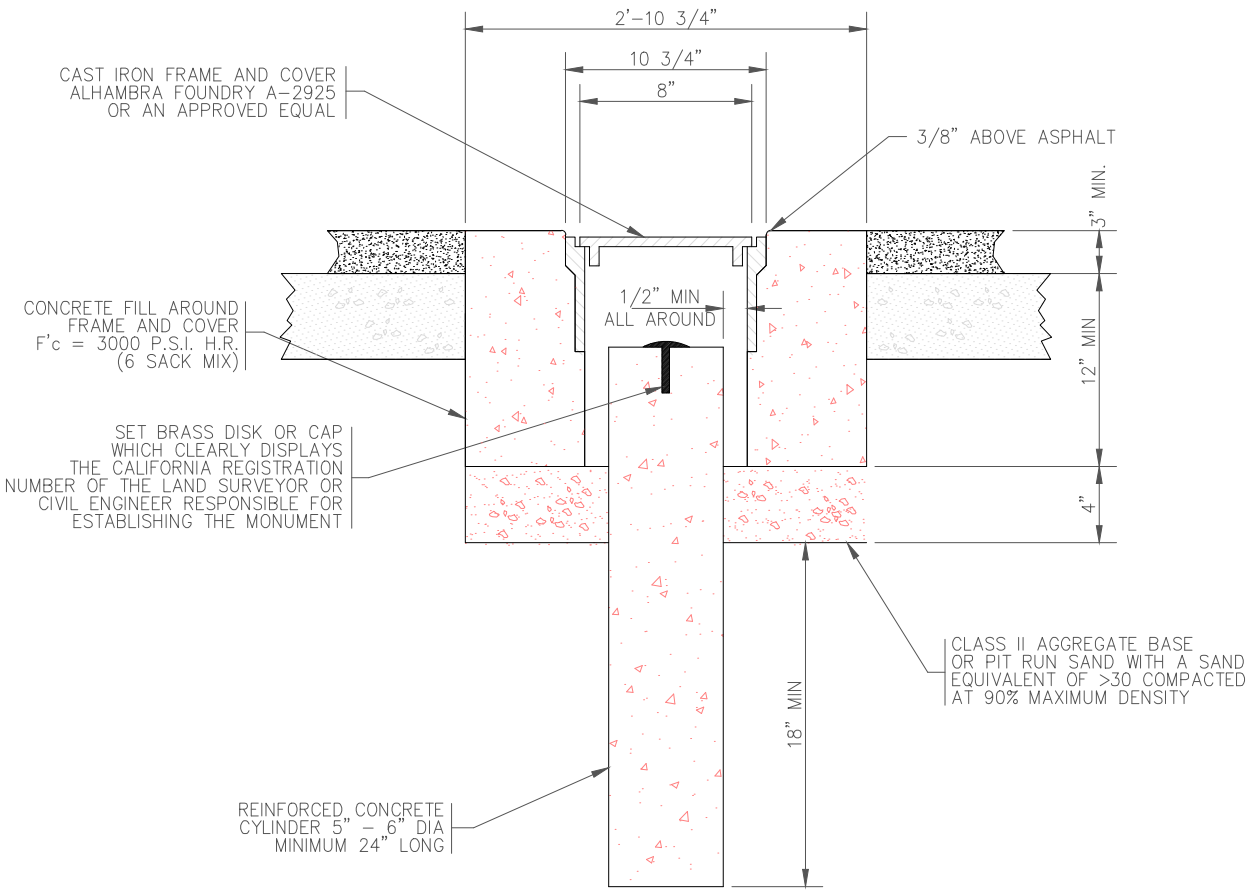


RESIDENTIAL DRIVEWAY

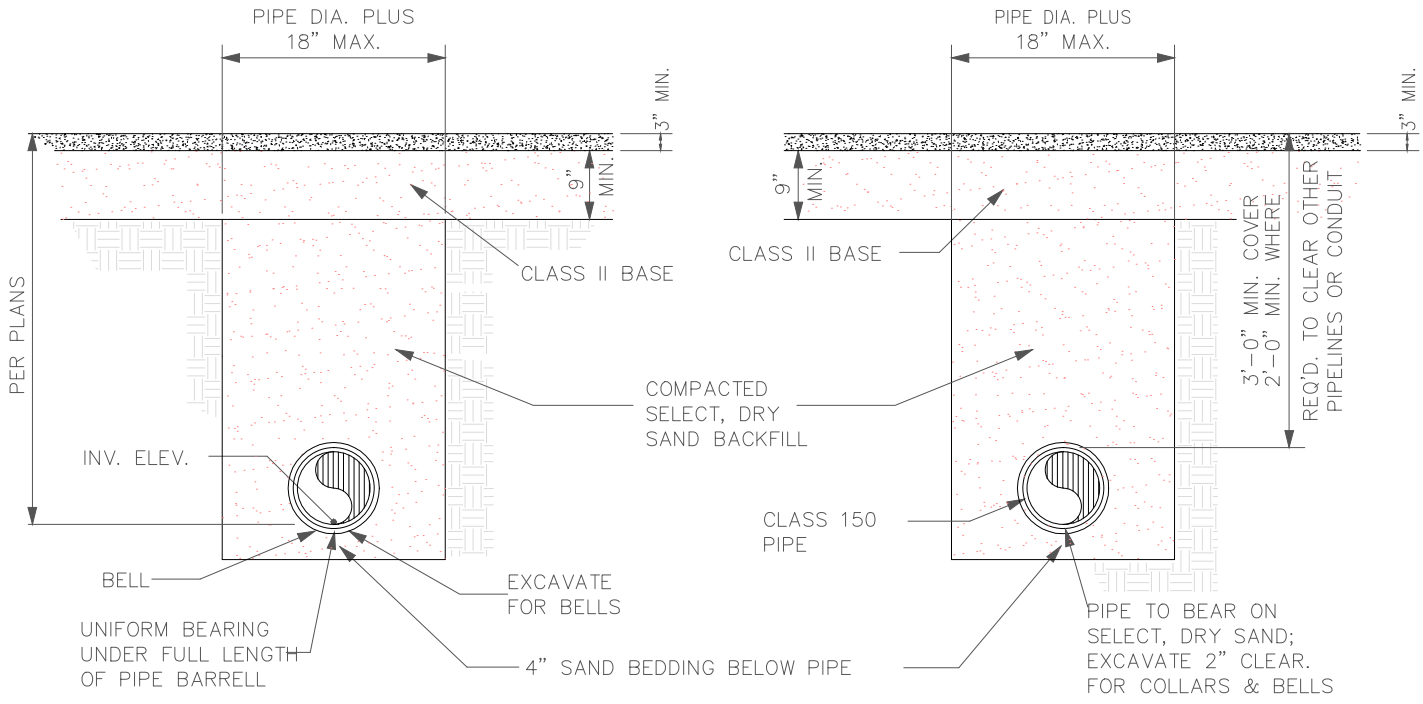
DRIVEWAY DETAIL NTS



TYPICAL STOP SIGN MARKINGS & LAYOUT NTS



MONUMENT WELL DETAIL NTS



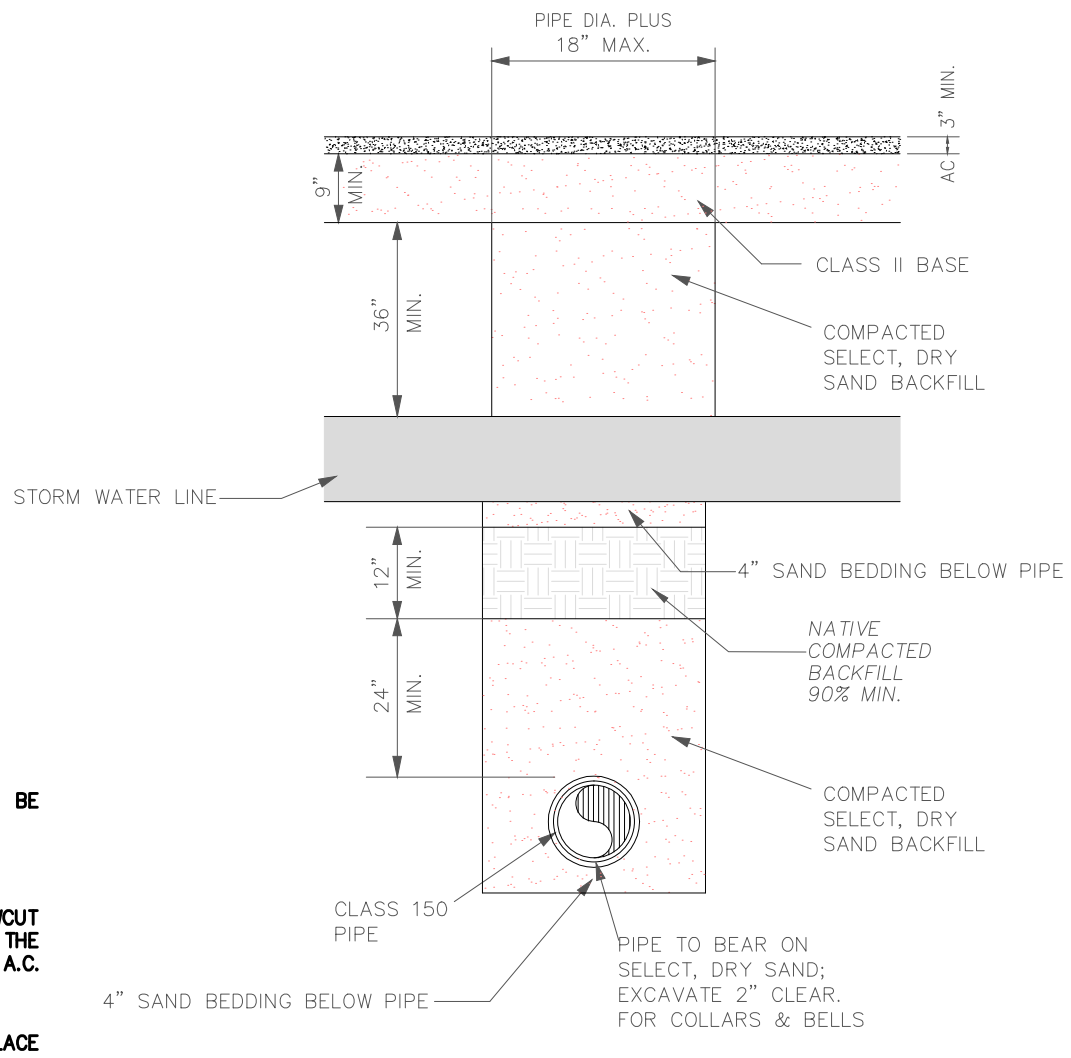
SEWER/STORM DRAIN

WATER LINE

NOTES:

1. ALL TRENCH BACKFILL TO BE COMPACTED 95% ± 3% MAX.; TESTED AT LEAST ONCE EVERY 100' FT.
2. WHEN TRENCHING IN A.C, SAWCUT AND REMOVE STRIP SECTION TO THE FULL DEPTH OF THE EXISTING A.C. PAVEMENT.
3. WHEN REPLACING A.C. REPLACE WITH HOT MIX ASPHALT.

TRENCH DETAILS 1 NTS

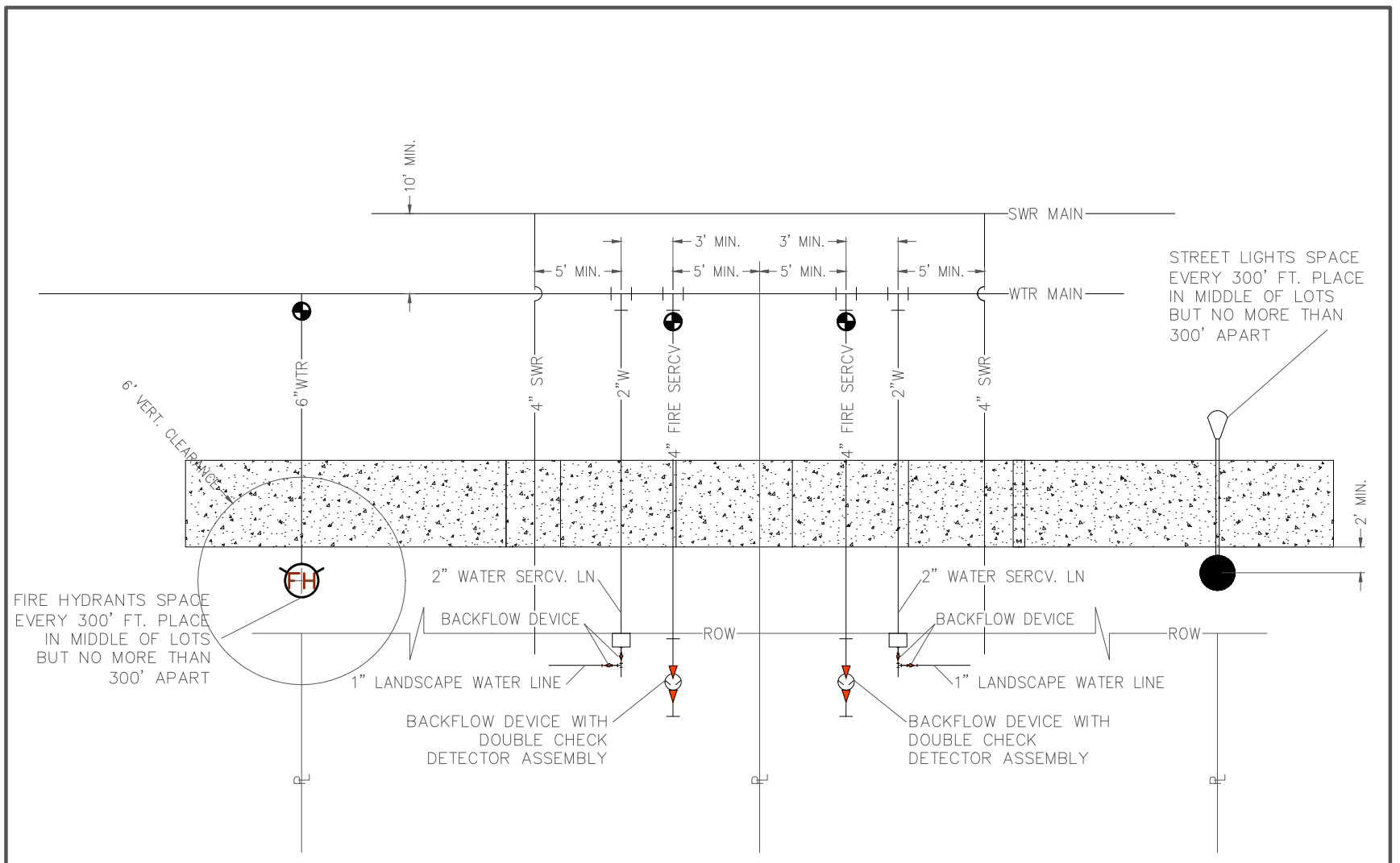


NOTES:

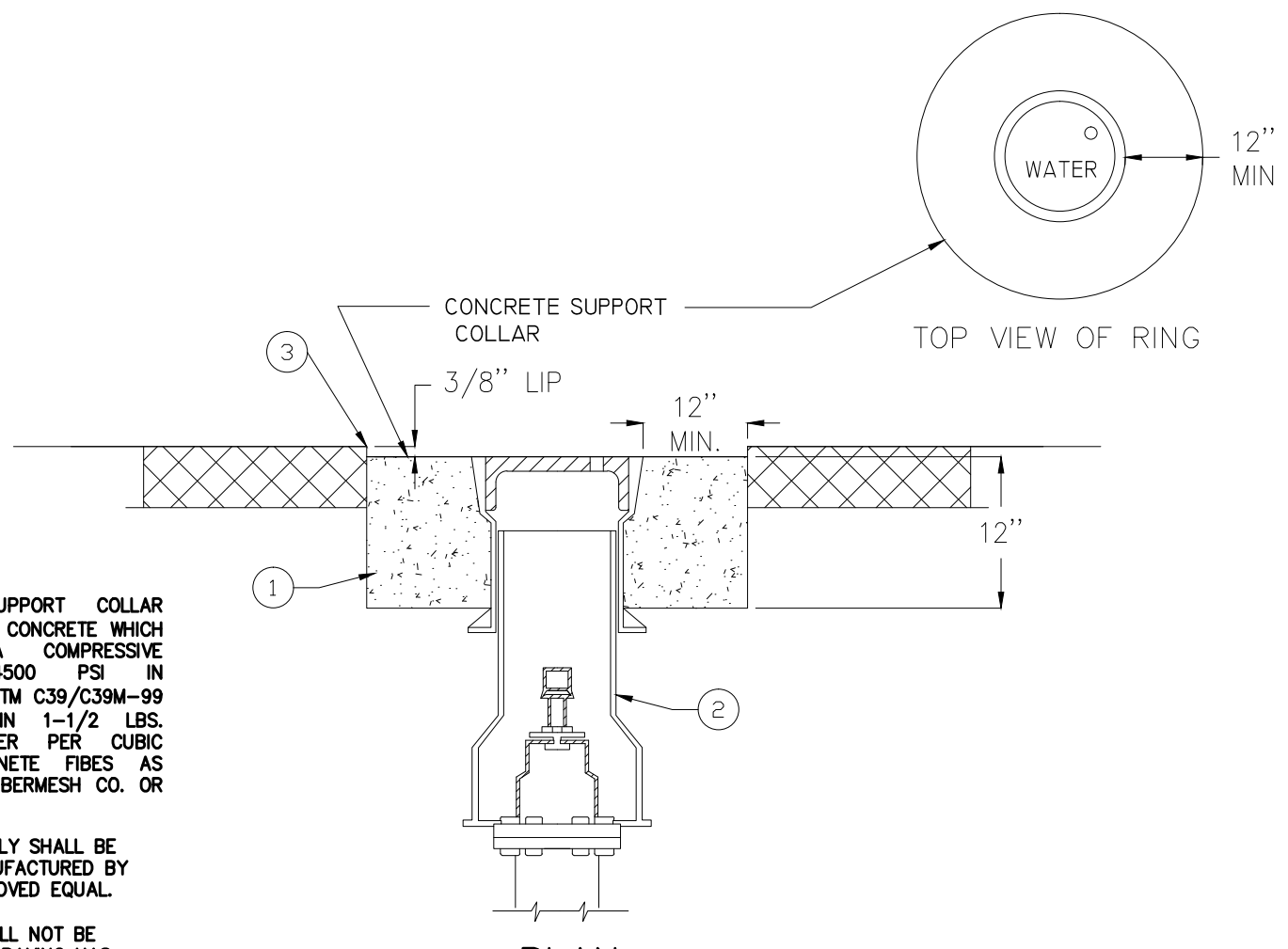
1. ALL TRENCH BACKFILL TO BE COMPACTED 95% ± 3% MAX.
2. WHEN TRENCHING IN A.C, SAWCUT AND REMOVE STRIP SECTION TO THE FULL DEPTH OF THE EXISTING A.C. PAVEMENT.
3. WHEN REPLACING A.C. REPLACE WITH HOT MIX ASPHALT.

WATER LINE CROSSING UNDER STORM DRAIN

TRENCH DETAILS 2 NTS



UTILITY LAYOUT NTS



PLAN

NOTES:

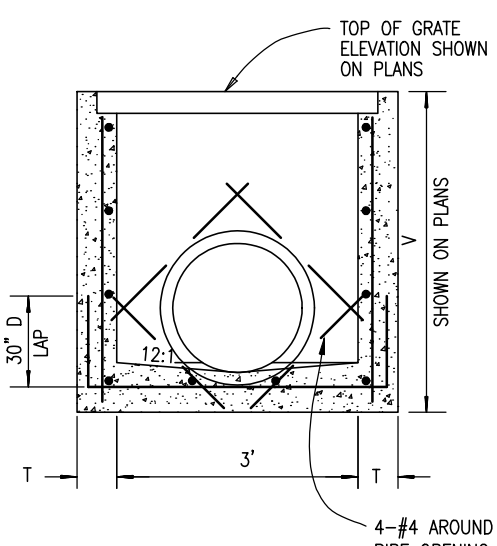
① CONCRETE FOR SUPPORT COLLAR SHALL BE CLASS "3" CONCRETE WHICH SHALL ATTAIN A COMPRESSIVE STRENGTH OF 4500 PSI IN ACCORDANCE WITH ASTM C39/C39M-99 AND SHALL CONTAIN 1-1/2 LBS. POLYPROPYLENE FIBER PER CUBIC YARD. POLYPROPYLENETE FIBES AS MANUFACTURED BY FIBERMESH CO. OR APPROVED EQUAL.

② VALVE COVER ASSEMBLY SHALL BE SERIES 6855 AS MANUFACTURED BY TYLER PIPE, OR APPROVED EQUAL.

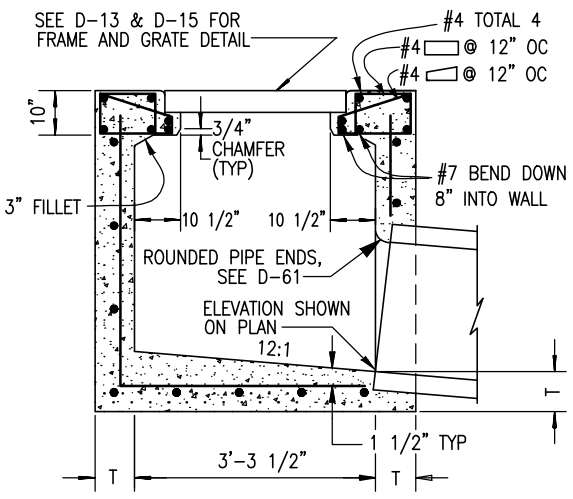
③ SUPPORT COLLAR SHALL NOT BE INSTALLED UNTIL A.C. PAVING HAS CURED ENOUGH TO PRODUCE A CLEAN AND STABLE EDGE.

④ VALVE COVER INSTALLATIONS IN UNPAVED PORTIONS OF RIGHT-OF-WAY SHALL HAVE 2" WIDE X 6" THICK ASPHALT APRON..

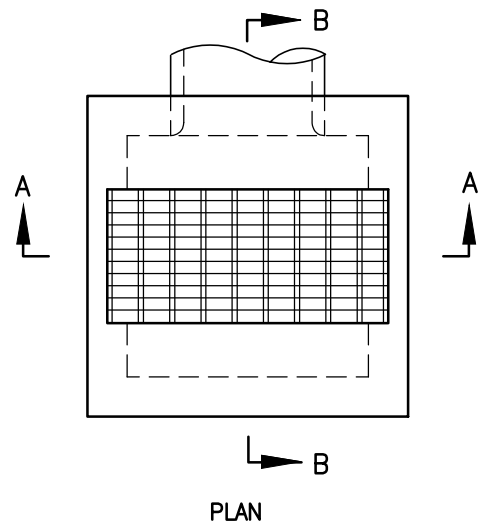
VALVE OPERATOR WELL NTS



SECTION A–A



SECTION B–B

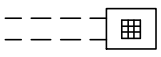


PLAN

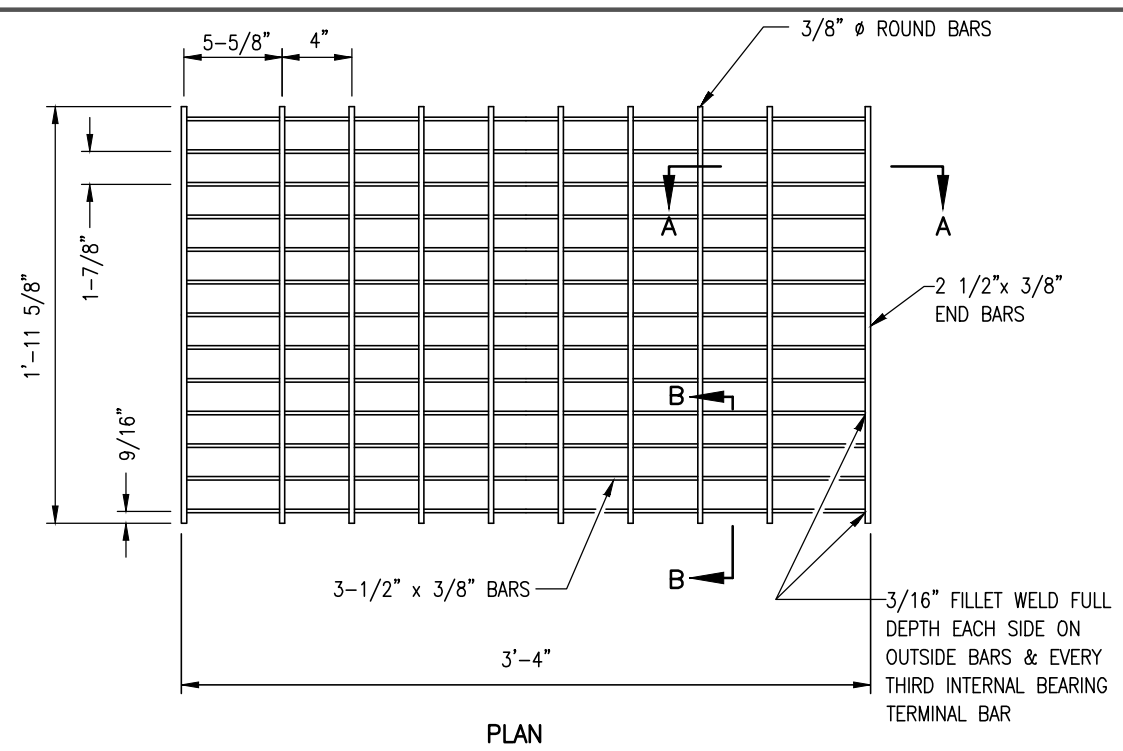
NOTES

1. A TYPE I CATCH BASIN IS SPECIFIED FOR LARGE DIAMETER PIPES OR FOR HEAVY TRAFFIC LOADS (NOTES EXTRA STEEL REINFORCEMENT IN UPPER CORNERS).
2. SEE D–11A & D–11B FOR ADDITIONAL NOTES AND DETAILS.
3. WHEN V EXCEEDS 4', STEPS SHALL BE INSTALLED PER D–11A.

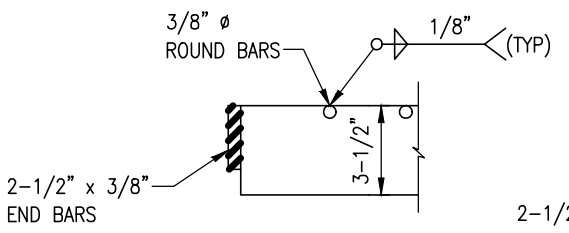
LEGEND ON PLANS



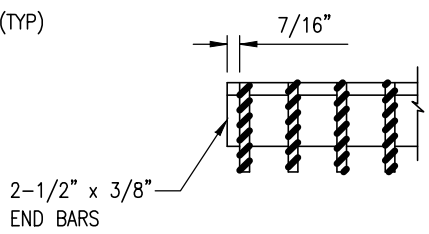
CATCH BASIN TYPE 1 NTS



PLAN



SECTION A–A

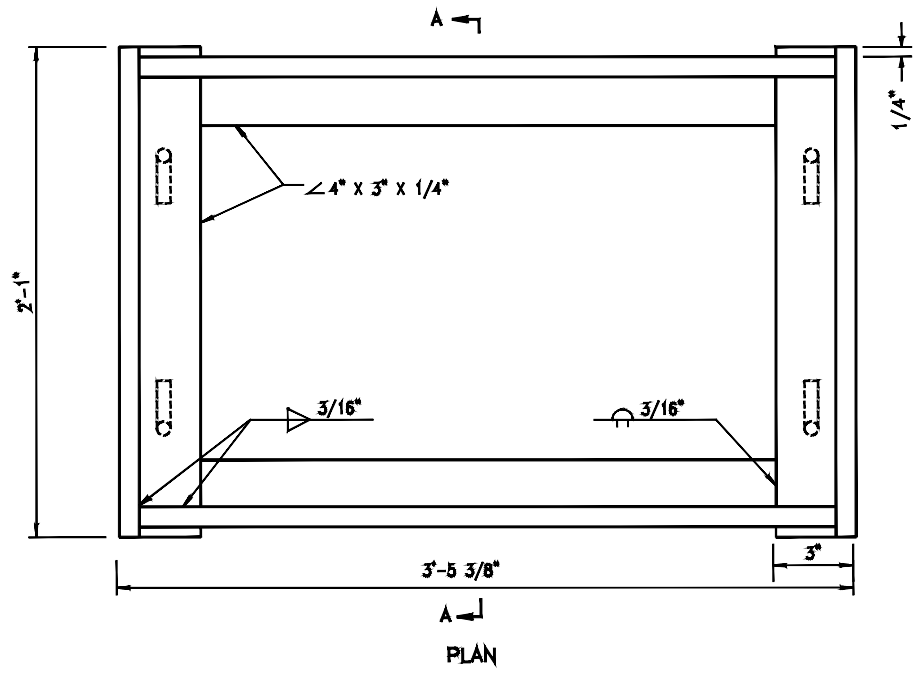


SECTION B–B

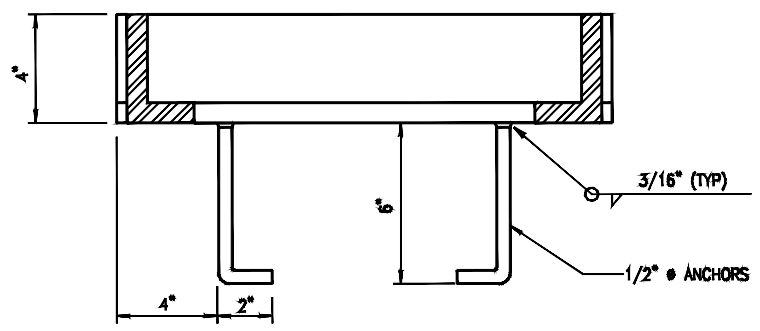
NOTES

1. HOT–DIP GALVANIZE ALL PARTS AFTER FABRICATION.
2. DIMENSIONS ARE TO CENTERLINE OF BARS UNLESS OTHERWISE NOTED.
3. NOT TO BE USED IN PEDESTRIAN AREAS.
4. WEIGHT: 200 POUNDS +/–.

DRAINAGE STRUCTURE GRATE NTS



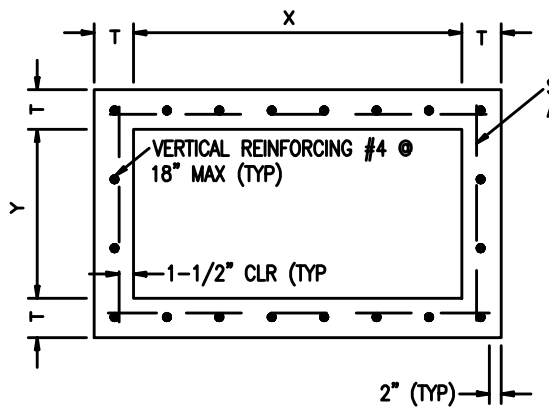
PLAN



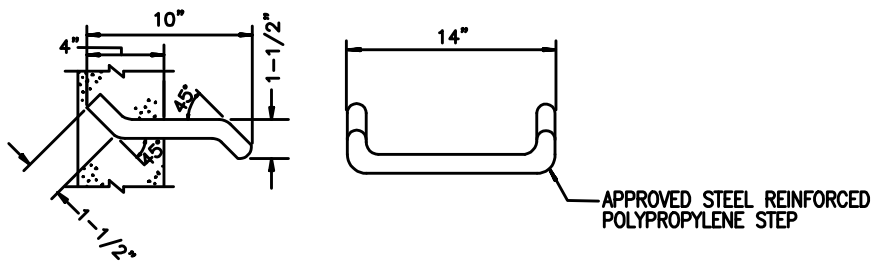
SECTION A-A

NOTE
HOT-DIP GALVANIZE ALL PARTS AFTER FABRICATION.

WELDED STEEL GRATE FRAME NTS



TYPICAL BOX SECTION



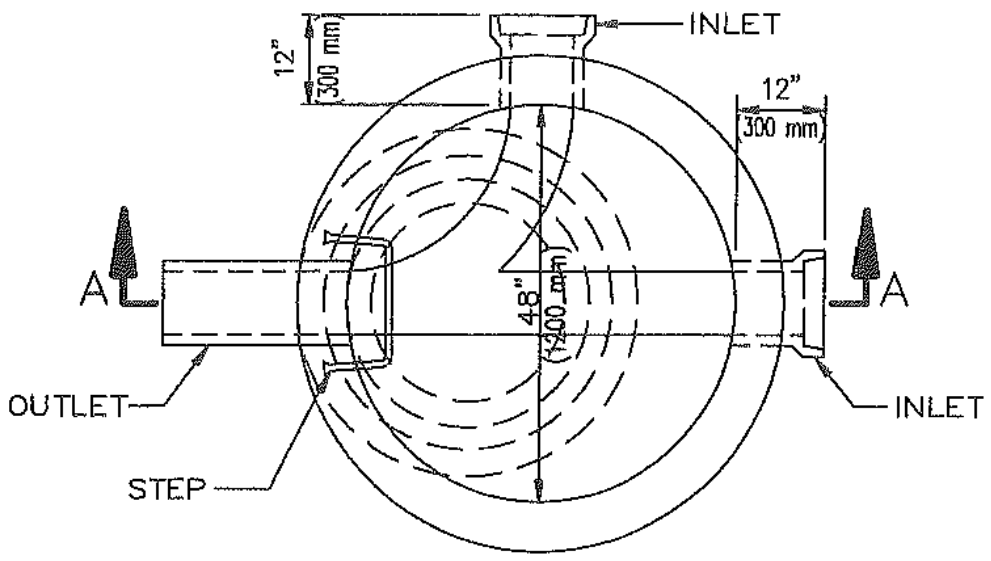
STEP DETAIL

NOTES
1. CONCRETE SHALL BE 560-C-3250 UNLESS OTHERWISE NOTED.
2. REINFORCING STEEL SHALL COMPLY WITH THIS DRAWING (D-11A AND D-11B) UNLESS OTHERWISE SPECIFIED.
3. REINFORCING STEEL SHALL BE INTERMEDIATE GRADE DEFORMED BARS CONFORMING TO LATEST ASTM SPECIFICATIONS.
4. BENDS SHALL BE IN ACCORDANCE WITH LATEST ACI CODE.
5. MINIMUM SPLICE LENGTH FOR REINFORCING SHALL BE 30 DIAMETERS.
6. FLOOR SHALL HAVE A WOOD TROWEL FINISH AND, EXCEPT WHERE USED AS JUNCTION BOXES, SHALL HAVE A MINIMUM SLOPE OF 1:12 TOWARD THE OUTLET.
7. DEPTH V IS MEASURED FROM THE TOP OF THE STRUCTURE TO THE FLOWLINE OF THE BOX.
8. WALL THICKNESS AND REINFORCING STEEL REQUIRED MAY BE DECREASED IN ACCORDANCE WITH TABLE ON D-11B.
9. WALL THICKNESS SHALL BE STEPPED ON THE OUTSIDE OF THE BOX.
10. WHEN THE STRUCTURE DEPTH V EXCEEDS 4', STEPS SHALL BE CAST INTO THE WALL AT 15" INTERVALS FROM 15" ABOVE FLOOR TO WITHIN 12" OF TOP OF STRUCTURE. WHERE POSSIBLE, PLACE STEPS IN WALL WITHOUT PIPE OPENING, OTHERWISE OVER OPENING OF SMALLEST DIAMETER.
11. ALTERNATE STEP MAY BE AN APPROVED STEEL REINFORCED POLYPROPYLENE STEP.
12. UPON APPROVAL OF THE AGENCY, THE USE OF PRECAST STORM STRUCTURES IS ACCEPTABLE AS AN ALTERNATE TO CAST-IN-PLACE. PRECAST UNITS SHALL CONFORM TO ASTM STANDARDS AND BE MANUFACTURED IN A PERMANENT FACILITY DESIGNED FOR THAT PURPOSE.

INLETS AND CLEANOUTS NOTES D-11A NTS

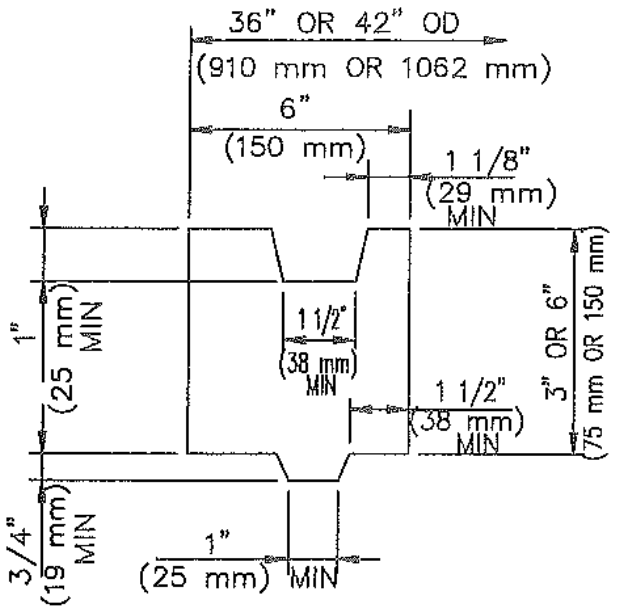
BOX SECTION REINFORCEMENT (HORIZONTAL AND FLOOR)			
MAXIMUM SPAN X OR Y	DEPTH V	THICKNESS T	HORIZONTAL AND FLOOR REINFORCEMENT SIZE AND SPACING
3' TO 4'	4'	6"	#4 @ 18"
4'–1" TO 7'			#4 @ 12"
7'–1" TO 8'			#4 @ 8"
3' TO 4'	4'–1" TO 8'	6"	#4 @ 18"
4'–1" TO 5'			#4 @ 12"
5'–1" TO 6'			#4 @ 8"
6'–1" TO 8'			#4 @ 6"
3' TO 4'	8'–1" TO 12'	6"	#4 @ 15"
4'–1" TO 5'		8"	#4 @ 12"
5'–1" TO 6'			#4 @ 8"
6'–1" TO 8'			#4 @ 6"
3' TO 4'	12'–1" TO 16'	8"	#4 @ 12"
4'–1" TO 5'			#4 @ 12"
5'–1" TO 6'			#4 @ 8"
6'–1" TO 7'			#4 @ 6"
7'–1" TO 8'			#5 @ 8"
3' TO 4'	16'–1" TO 20'	8"	#4 @ 12"
4'–1" TO 5'		10"	#4 @ 12"
5'–1" TO 6'			#4 @ 8"
6'–1" TO 7'			#4 @ 6"
7'–1" TO 8'			#5 @ 8"
3' TO 4'	20'–1" TO 24'	8"	#4 @ 12"
4'–1" TO 5'		10"	#4 @ 12"
5'–1" TO 6'			#4 @ 8"
6'–1" TO 7'			#4 @ 6"
7'–1" TO 8'		12"	#5 @ 8"

INLETS AND CLEANOUTS NOTES D–11B NTS

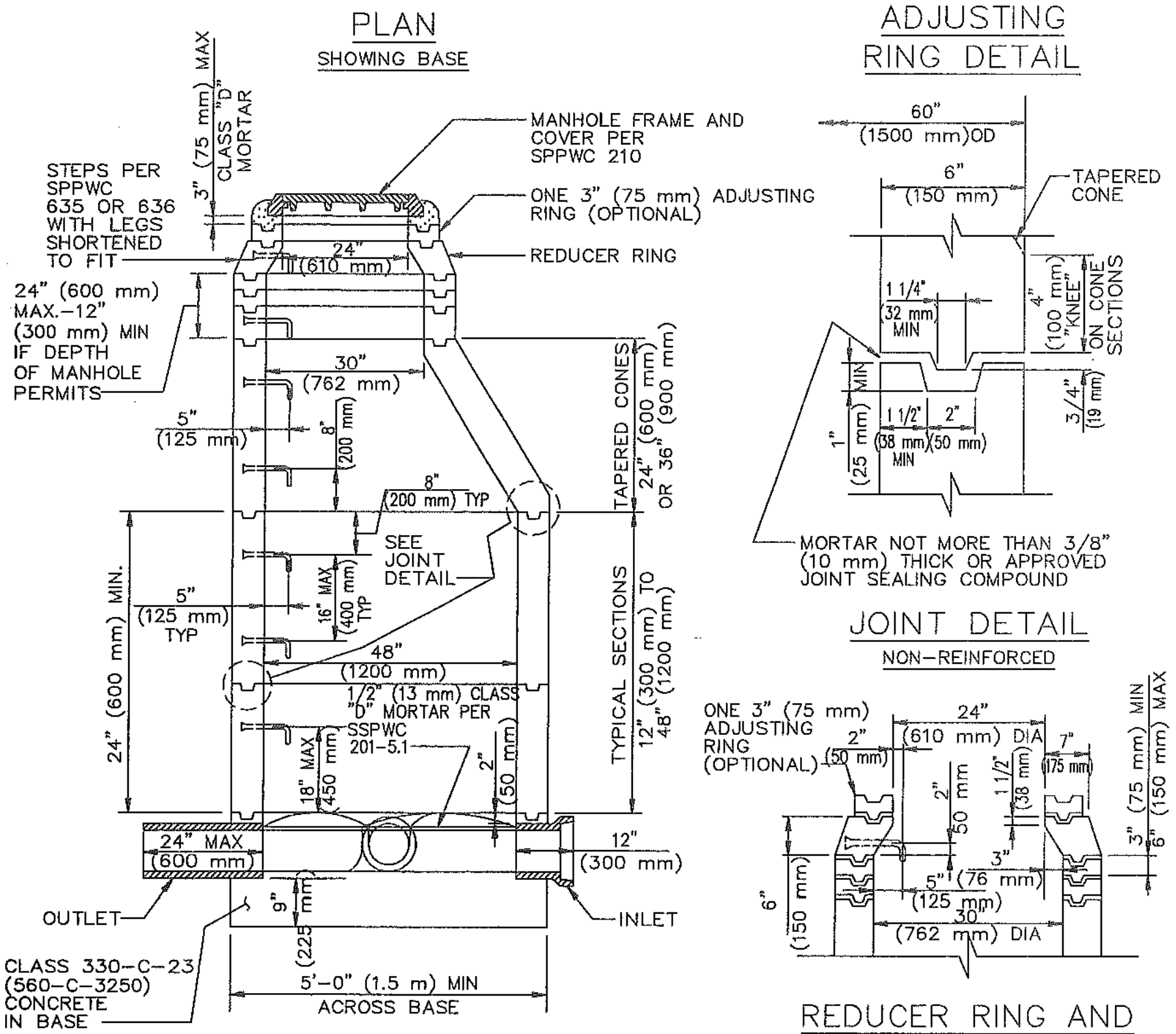


PLAN

SHOWING BASE



ADJUSTING RING DETAIL



SECTION A–A

JOINT DETAIL

NON–REINFORCED

REDUCER RING AND ADJUSTING RINGS

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION		
PROMULGATED BY THE PUBLIC WORKS STANDARDS INC. GREENBOOK COMMITTEE 1984 REV. 1993, 1995, 2009	**PRECAST CONCRETE SEWER MANHOLE**	STANDARD PLAN **200–3**
	USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION	SHEET 1 OF 2