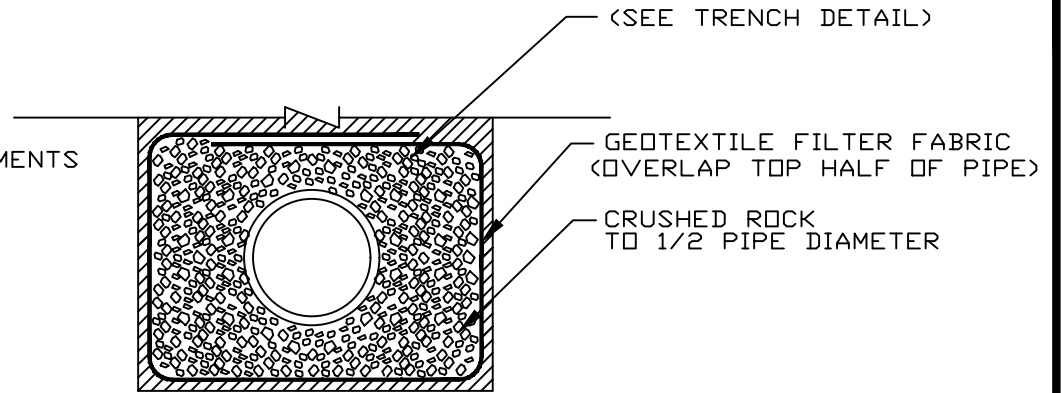
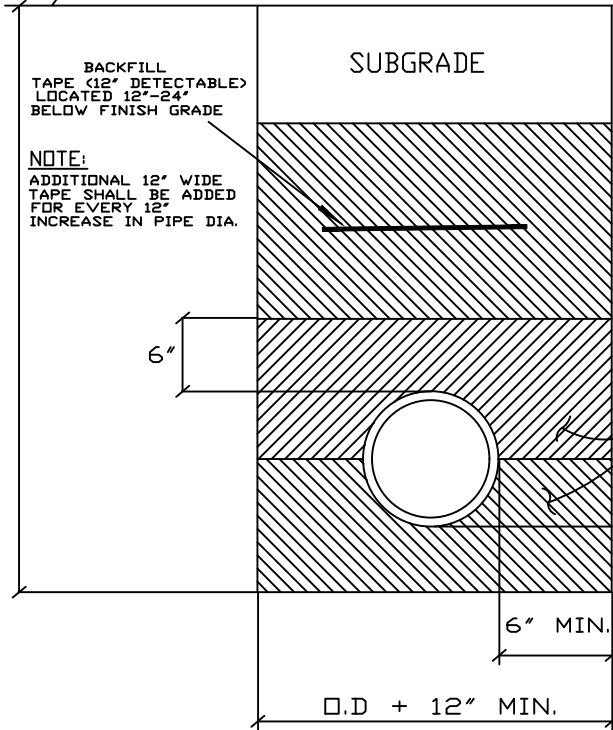
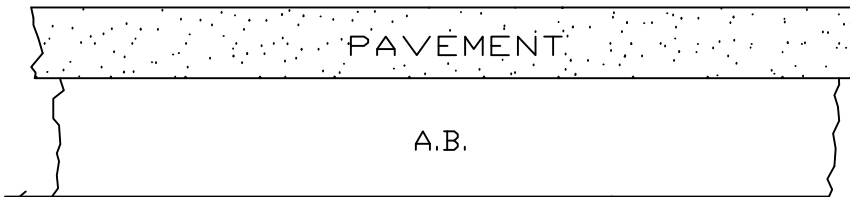


TRENCH BACKFILL REQUIREMENTS:

1. PROPOSED STREETS- REFER TO DETAIL TB-1 OF SECTION 31 FOR BACKFILL REQUIREMENTS ABOVE THE PIPE ZONE.
2. EXISTING STREETS- REFER TO DETAIL TB-1 AND TB-3, TB-3a OF SECTION 31 FOR BACKFILL REQUIREMENTS ABOVE THE PIPE ZONE.



SATURATED PIPE TRENCH



BACKFILL TAPE (12" DETECTABLE) LOCATED 12"-24" BELOW FINISH GRADE

NOTE:
ADDITIONAL 12" WIDE TAPE SHALL BE ADDED FOR EVERY 12" INCREASE IN PIPE DIA.

IMPORTED MATERIAL 1/2" OR 3/4" CRUSHED ROCK PER CAL TRANS STANDARD SPECIFICATION FOR AGGREGATE BASES.

3" FOR UNDER 12" PIPE
4" FOR 12" OR LARGER PIPE
(ADD 4" TO THE EXCAVATION IN ROCKY OR UNYIELDING SOIL)

Richard D. Plecker

RICHARD PLECKER
ENVIRONMENTAL UTILITIES DIRECTOR



ENVIRONMENTAL UTILITIES
DEPARTMENT

**SEWER MAIN
TRENCH AND BACKFILL**

SCALE: NONE
REVISED: JANUARY 2026
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

SS-1

NOTE: BACKFILL SHALL BE MECHANICALLY CONSOLIDATED OR SHOVEL SLICED UNDER THE HAUNCHES OF THE PIPE

NOTES

MANHOLE LIDS SHALL BE SEALED WITH AN APPROVED RUBBER GASKET.

JOINTS SHALL BE MORTARED INSIDE AND OUT.

UNUSED CHANNELS SHALL BE COMPLETELY FILLED WITH GROUT.

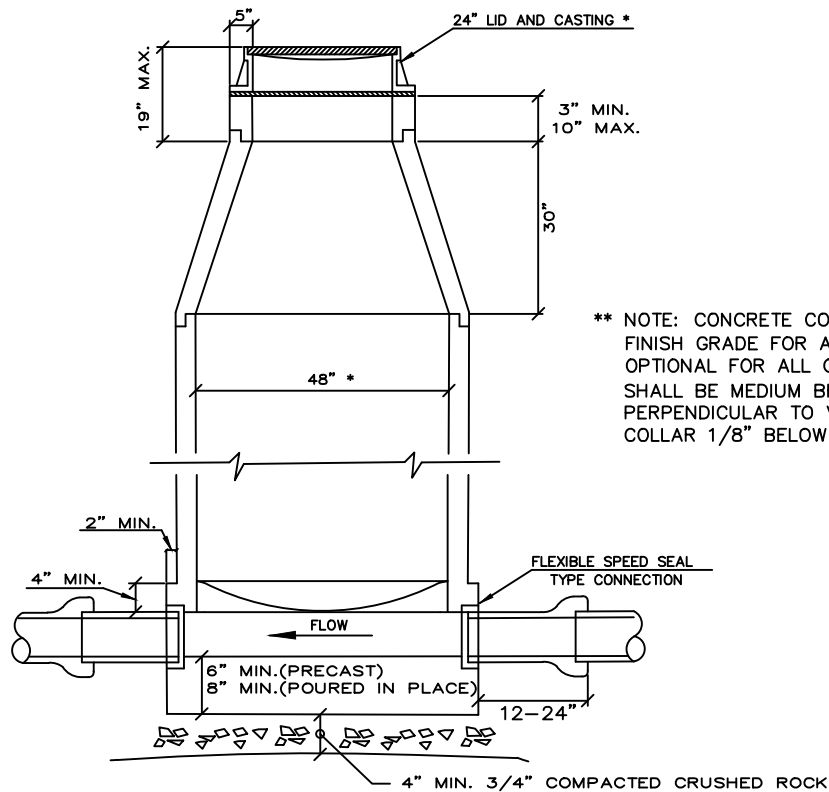
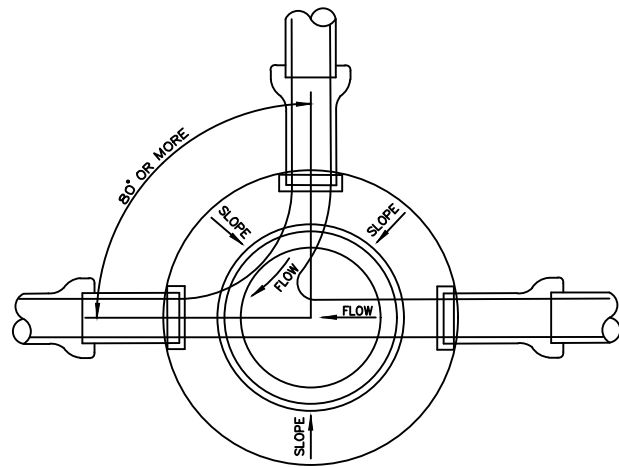
STUBS SHALL BE PLUGGED AND END MARKED ABOVE FINISHED GRADE WITH A REDWOOD 4 BY 4 POST PAINTED GREEN IF AN ECCENTRIC CONE IS USED, PLACE SUCH THAT THE OPENING IS OVER THE UPSTREAM INVERT.

NO CAULDER OR REPAIR COUPLINGS SHALL BE USED ON NEW CONSTRUCTION

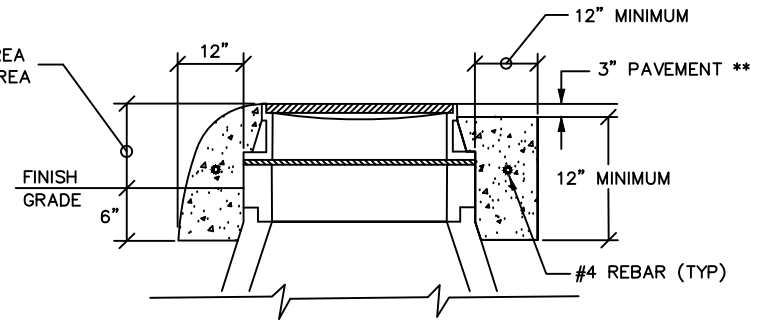
FLOW LINES SHALL HAVE A 1/10 DROP OR AS INDICATED ON PLANS

MANHOLES WITH DROPS SHALL BE EPOXY COATED. THE COATING SHALL BE APPLIED PER SEC. 91-10K OF THESE STANDARDS.

* 60" & 72" MANHOLES SHALL USE A 36" COMPOSITE LID AND FRAME,



6" IN LANDSCAPED AREA
12" IN UNIMPROVED AREA



CONCRETE COLLAR DETAIL

** NOTE: CONCRETE COLLAR SHALL BE PLACED FLUSH TO FINISH GRADE FOR ALL COLLECTORS AND ARTERIALS, OPTIONAL FOR ALL OTHER ROADWAYS. FINISH SURFACE SHALL BE MEDIUM BROOM FINISH WITH PATTERN PERPENDICULAR TO VEHICLE TRAVEL DIRECTION. SET COLLAR 1/8" BELOW ADJACENT FINISHED PAVEMENT.

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ENVIRONMENTAL UTILITIES DIRECTOR

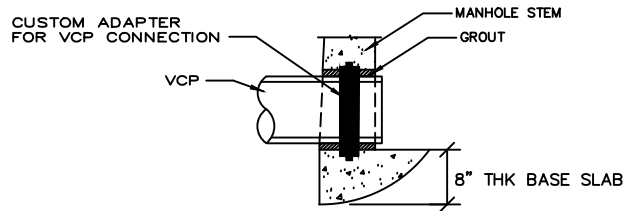
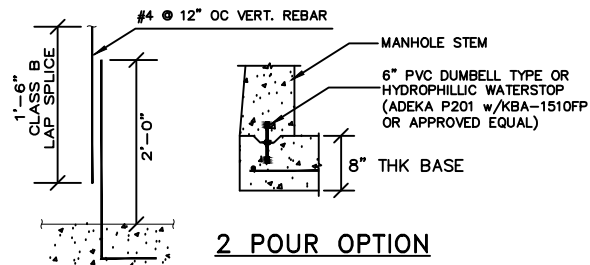
CITY OF
ROSEVILLE
CALIFORNIA

ENVIRONMENTAL UTILITIES
DEPARTMENT

SEWER MANHOLE STANDARD 48 INCH

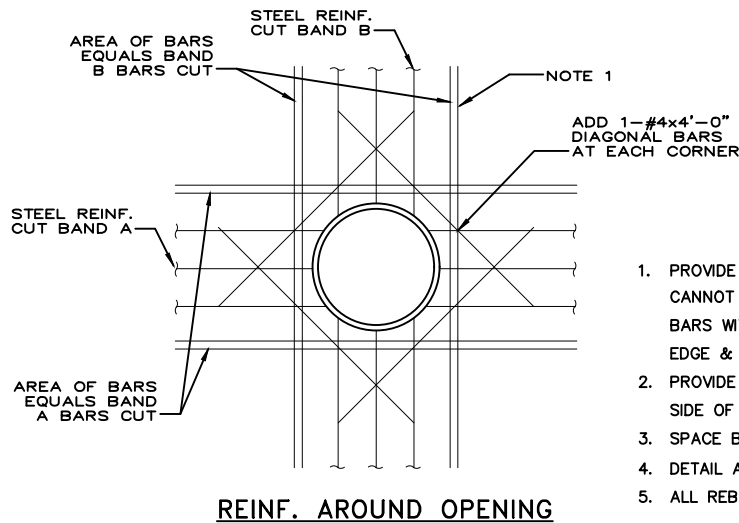
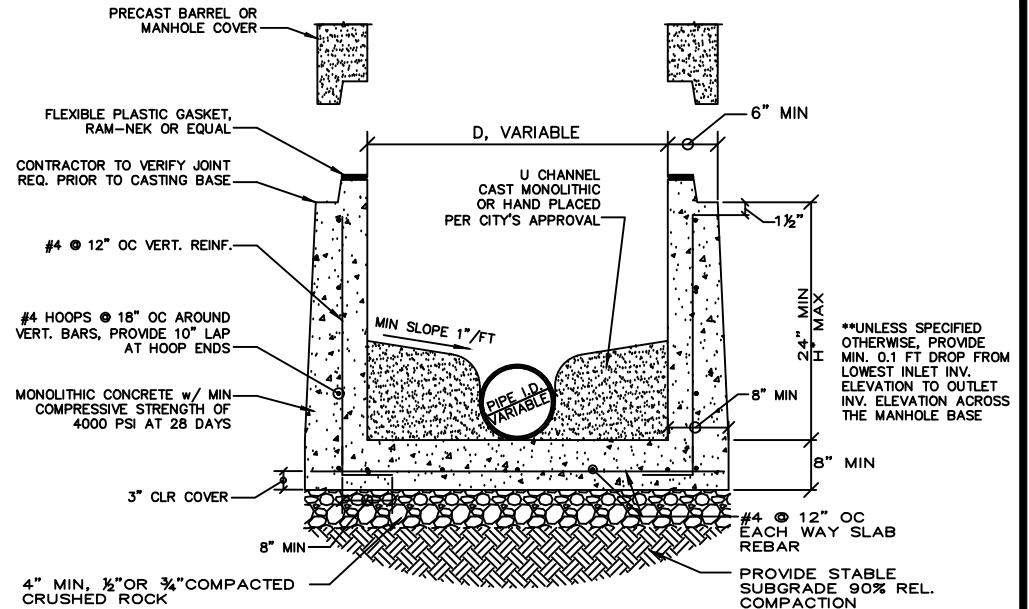
SCALE: NONE
REVISED: JANUARY 2025
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

SS-2



PIPE DIA	MANHOLE DIA, D"
6" THRU 12"	4'-0"
24" THRU 36"	5'-0"

* MANHOLE BASE DIMENSIONS FOR PIPE DIA. LARGER THAN 36" TO BE DESIGN BUILT. CONTRACTOR TO MODIFY THE DESIGN FOR BUOYANCY AS NEEDED FOR HIGH GROUND WATER, DEEP MANHOLE BASE APPLICATION.



1. PROVIDE MINIMUM LAP LENGTH, WHERE FULL LAP LENGTH CANNOT BE ACHIEVED DUE TO THE SLAB, TERMINATE BARS WITH A STANDARD 90° BEND, 2" CLEAR OF SLAB EDGE & BOTTOM.
2. PROVIDE A MIN OF 2"A" BARS AND 2"B" BARS EACH SIDE OF THE OPENING.
3. SPACE BARS AT 3*DIAMETER OR 3" MIN. ON CENTER
4. DETAIL APPLIES TO PIPE OPENINGS > 9" DIAMETER
5. ALL REBAR TO BE GRADE 40 KSI REINFORCING STEEL

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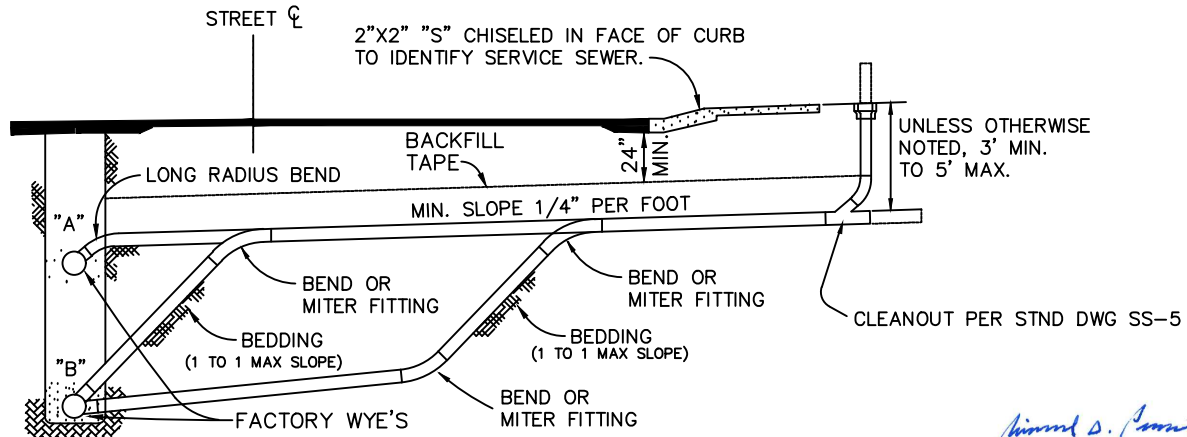
**SEWER MANHOLE
CAST-IN-PLACE BASE**

SCALE: NONE
REVISED: SEPTEMBER 2022
DRAWN BY: J. THOMPSON
APPROVED BY: RICHARD PLECKER

SS-2A

GENERAL NOTES:

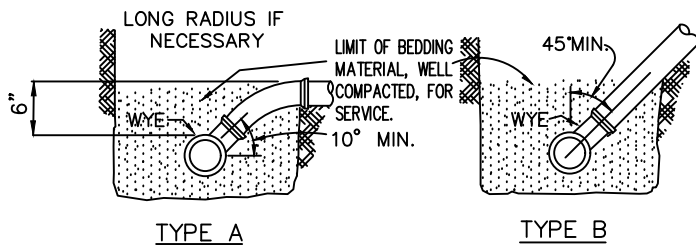
1. ALL SERVICE LINES SHALL BE 4" FOR RESIDENTIAL AND 6" FOR COMMERCIAL UNLESS OTHERWISE NOTED.
2. SERVICES SHALL HAVE SAME BEDDING AND BACKFILL AS LATERAL SEWER.
3. CONTRACTOR SHALL USE THE MOST APPROPRIATE TYPE CONNECTION (A OR B) FOR THE PARTICULAR SITUATION ENCOUNTERED.
4. SERVICE SEWER SHALL HAVE MINIMUM 3'-0" COVER AT PROPERTY LINE WHENEVER LATERAL DEPTH AND SERVICE SEWER SLOPE OF 1/4" PER FOOT (MINIMUM) PERMIT. SEE NOTE 10.
5. WHEN THE LATERAL SEWER DEPTH IS SUCH THAT MINIMUM COVER AT PROPERTY LINE CANNOT BE MET, THE MINIMUM SLOPE OF 1/4" PER FOOT SHALL GOVERN THE COVER.
6. MIN. SPECIFIED COVER AT THE PROPERTY LINE SHALL BE MEASURED FROM EXISTING GROUND SURFACE OR EDGE OF ADJACENT ROADWAY, WHICHEVER IS LOWER.
7. A SPECIFIC ELEVATION AT THE PROPERTY LINE, WHEN SHOWN ON THE PLANS OR DESIGNATED BY THE ENGINEER, SHALL GOVERN.
8. MITER FITTING SHALL BE MAX. 45°.
9. MINIMUM DEPTH OF COVER SHALL BE INCREASED TO 4'-6" WHERE A WATER MAIN IS TO BE INSTALLED AT BACK OF SIDEWALK AS PART OF THE SUBDIVISION IMPROVEMENTS. IN SUCH CASES, THE SERVICE SHALL BE EXTENDED TO A MINIMUM OF 7' BACK OF SIDEWALK; CLEANOUT TO GRADE SHALL REMAIN WITHIN 3' OF BACK OF SIDEWALK.
10. SEWER SERVICES ORIGINATING FROM SEWER MAINS 14 FT AND GREATER IN DEPTH SHALL HAVE THE CROTCH OF THE VCP "WYE" FITTING FILLED WITH CONCRETE.
11. UNDERGROUND CONTRACTOR SHALL END SEWER SERVICE 2-3' UPSTREAM OF SEWER CLEANOUT. SEE STANDARD DETAIL SS-5.



ELEVATION

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CONNECTION DETAILS

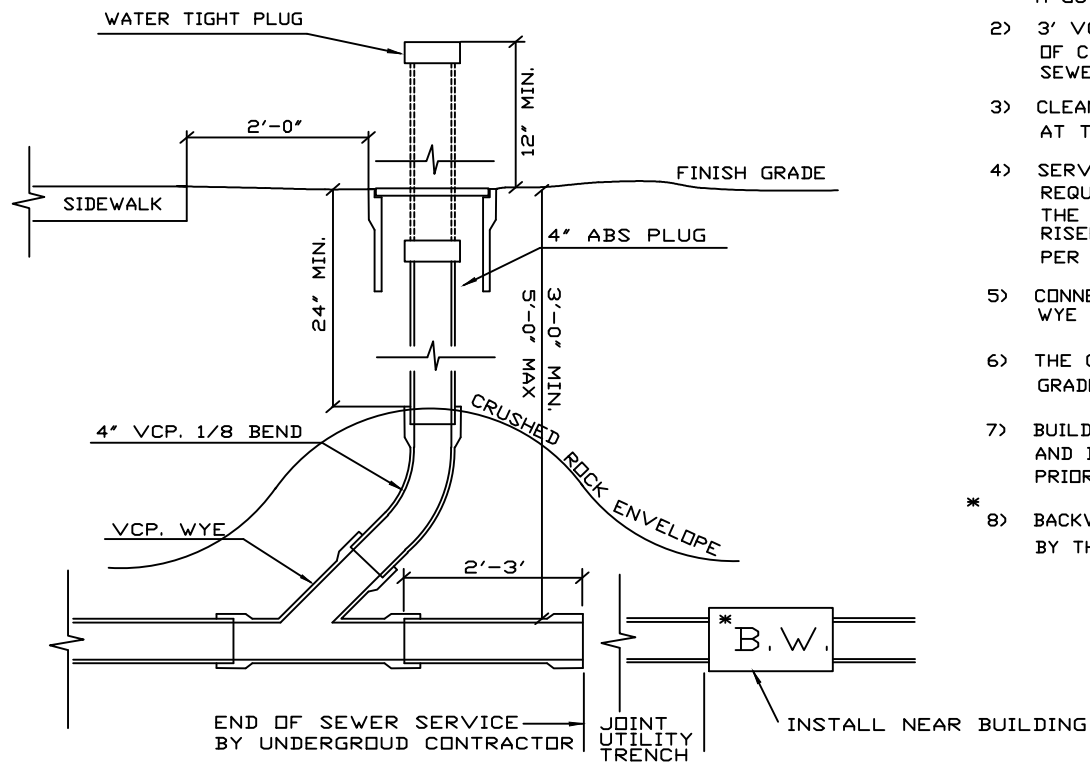


ENVIRONMENTAL UTILITIES
DEPARTMENT

SEWER SERVICE

SCALE: NONE
REVISED: JANUARY 2017
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

SS-4




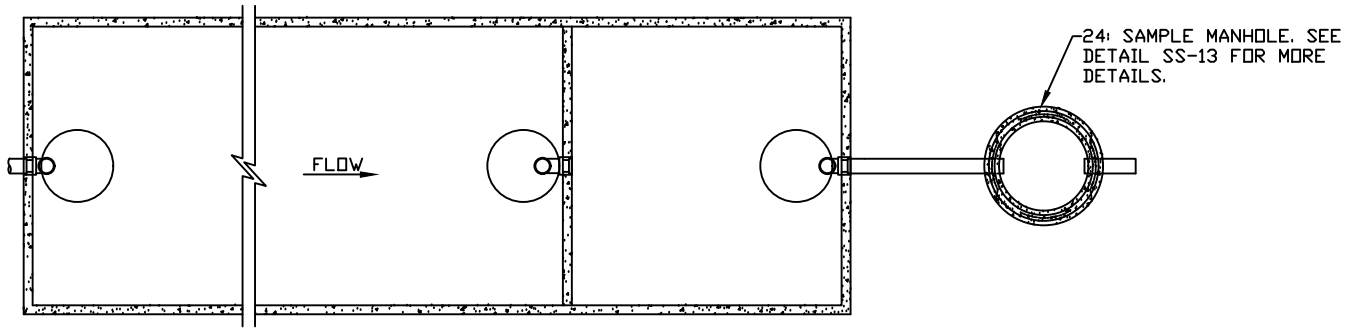
NOTES:

- 1) INSTALL ROUND NON-TRAFFIC TYPE CONCRETE VALVE BOX & COVER MARKED "SEWER" IN A NON - TRAFFIC AREA . INSTALL METAL LID MARKED "SEWER" IN AREAS WITH POTENTIAL TRAFFIC. A G5 BOX SHALL BE INSTALLED IN TRAFFIC AREAS.
- 2) 3' VCP STUB SHALL BE INSTALLED UPSTREAM OF CLEANOUT. 2' VCP SHALL BE INSTALLED WHERE SEWER SERVICE ENTERS OVER JOINT UTILITY TRENCH
- 3) CLEANOUT BOX TO BE FREE OF ALL DIRT AND READY AT TIME OF PRE-FINAL INSPECTION.
- 4) SERVICES OVER 100' LONG AND COMMERCIAL SERVICES REQUIRE A MIN. 6' CLEANOUT WITH 6" FITTINGS. THE CLEANOUT BOX SHALL BE A G-5 BOX FOR 4" - 6" RISERS AND A G-12 BOX FOR 8" RISERS. CONSTRUCT PER W-16.
- 5) CONNECTION TO MAIN SHALL BE WITH A FACTORY WYE OR AT A MANHOLE.
- 6) THE CLEANOUT RISER SHALL BE INSTALLED 12" ABOVE GRADE PRIOR TO BUILDING CONSTRUCTION.
- 7) BUILDING CONTRACTOR SHALL SET BOX TO FINISH GRADE AND INSTALL AN ABS PLUG SET 6" BELOW THE SURFACE PRIOR TO BUILDING PRE-FINAL.
- * 8) BACKWATER VALVE IF REQUIRED SHALL BE INSTALLED BY THE BUILDING CONTRACTOR

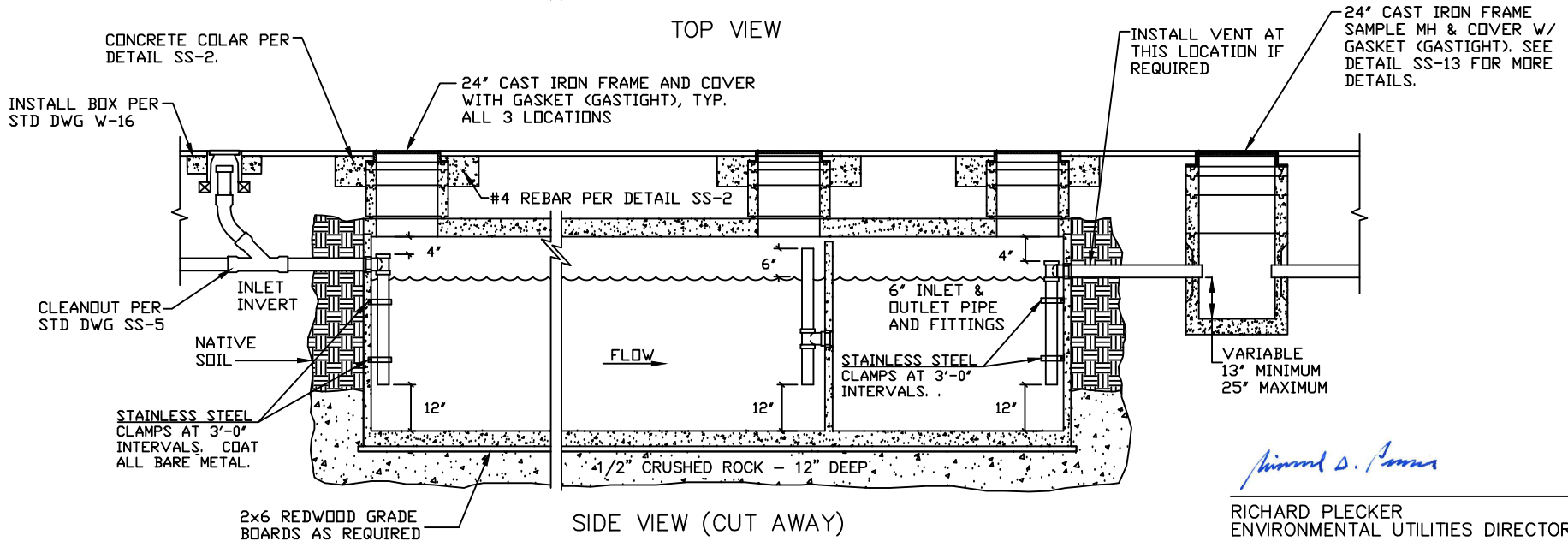
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- 9) TREES ARE TO BE PLACED 7 1/2' FROM CLEAN OUT.
- 10) INSTALL A CITY CLEANOUT AT A MINIMUM 5' FROM COMMERCIAL BUILDINGS.

	ENVIRONMENTAL UTILITIES DEPARTMENT
SEWER SERVICE CLEANOUT	
SCALE: NONE REVISED: JANUARY 2020 DRAWN BY: R. VAN NESS APPROVED BY: RICHARD PLECKER	
SS-5	



TOP VIEW



SIDE VIEW (CUT AWAY)

MIN. BOX DESIGN LOAD: H-20 TRAFFIC

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ENVIRONMENTAL UTILITIES DIRECTOR

*NOTE: THE PRECAST CONCRETE UNITS SHALL BE PLACED ON LEVEL UNDISTURBED SOIL, W/1/2" CRUSHED ROCK 12" DEEP. TWO 2x6 REDWOOD GRADE BOARDS SHALL BE PLACED BELOW THE TANK SIDE WALLS ALONG THE LONG DIMENSION PER THE MANUFACTURERS GUIDELINES.

SIZING SHALL BE BASED ON THE CALIFORNIA PLUMBING CODE

*NOTE: PRIOR TO BACKFILL, INTERCEPTOR SHALL BE FILLED WITH WATER AND HELD FOR 24HRS WITH NO VISIBLE LEAKAGE.

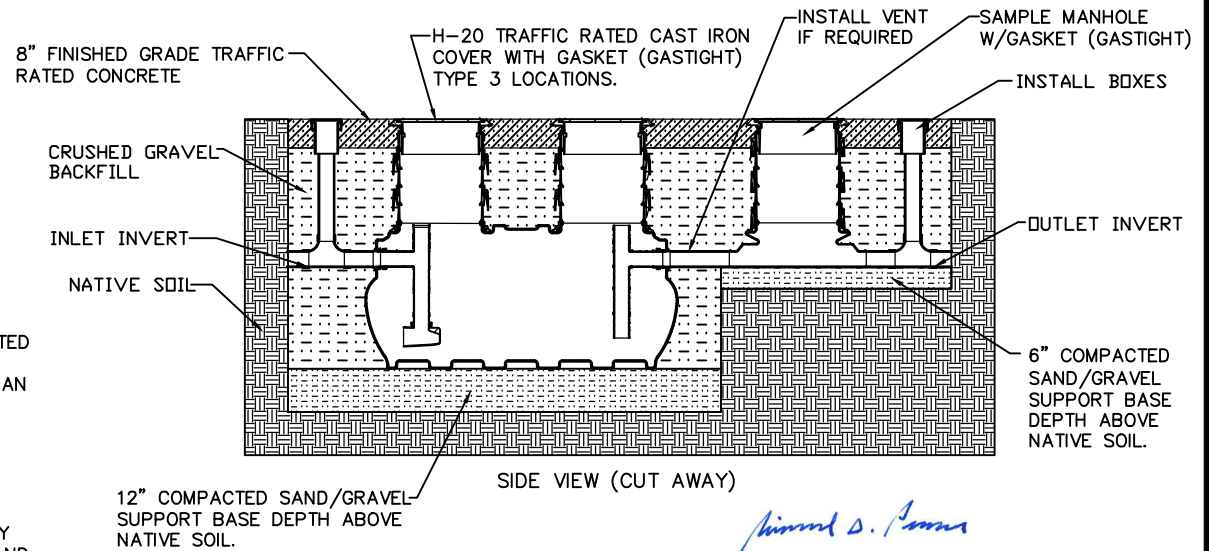
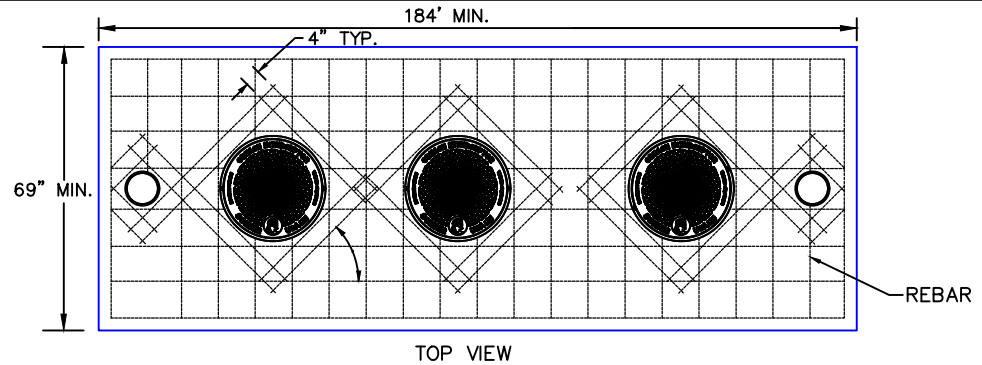


ENVIRONMENTAL UTILITIES
DEPARTMENT

GREASE INTERCEPTOR (TYP.)

SCALE: NONE
REVISED: JANUARY 2026
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

SS-6



NOTES:

1. SURROUNDING SOIL MUST BE UNDISTURBED SOIL OR WELL COMPACTED ENGINEERING FILL.
2. EXCAVATE THE INTERCEPTOR BURIAL PIT AT LEAST 12" LARGER THAN THE INTERCEPTOR ON ALL SIDES AND 12" DEEPER THAN THE INTERCEPTOR BOTTOM.
3. CONCRETE PAD DIMENSIONS MUST EXTEND 18" BEYOND THE SILHOUETTE OF THE INTERCEPTOR.
4. AFTER THE EXCAVATION IS COMPLETE LAY A LEVEL LAYER OF WELLPACKED, CRUSH AGGREGATE AT THE BASE OF THE PIT. BASE LAYER MATERIAL MUST BE CLEAN, CRUSHED STONE APPROXIMATELY 1" IN SIZE (AASHTO M43 SIZE #57 OR SIMILAR) FREE OF DEBRIS AND FINES. NATIVE SOIL AND SAND ARE NOT APPROVED BACKFILL MATERIALS.
5. DURING BACKFILL, FILL UNIT WITH WATER UP TO STATIC WATER WATERLINE FOR STABILIZATION AND FLOAT-OUT PREVENTION.
6. BACKFILL EVENLY ALL AROUND THE TANK USING CRUSHED STONE APPROXIMATELY 1" IN SIZE AS MENTIONED ABOVE. ENSURE BACKFILL IS WORKED UNDER THE UNIT TO ENSURE THE UNIT IS FULLY SUPPORTED.
7. BACKFILL UP TO 8" BELOW GRADE TO ALLOW FOR THE REQUIRED TRAFFIC RATED SLAB.
8. CONCRETE TO BE 28 DAY COMPRESSIVE STRENGTH TO 4000 PSI.
9. NO. 4 BAR (1/2") GRADE 60 STEEL PER ASTM A615: CONNECTED WITH TIE WIRE.
10. REBAR TO BE 2-1/2" FROM THE EDGE OF THE CONCRETE AND SPACED IN A 12" GRID WITH 4" SPACING AROUND ACCESS OPENINGS.
11. IT IS THE RESPONSIBILITY OF THE SPECIFYING ENGINEER TO DETERMINE IF THE INSTALLATION SITE WILL BE AFFECTED BY POTENTIAL HIGH WATER TABLE CONDITIONS THUS REQUIRING THE USE OF THE DEADMAN ANCHORING.

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ENVIRONMENTAL UTILITIES DIRECTOR



ENVIRONMENTAL UTILITIES
DEPARTMENT

**HYDROMECHANICAL
GREASE INTERCEPTOR**

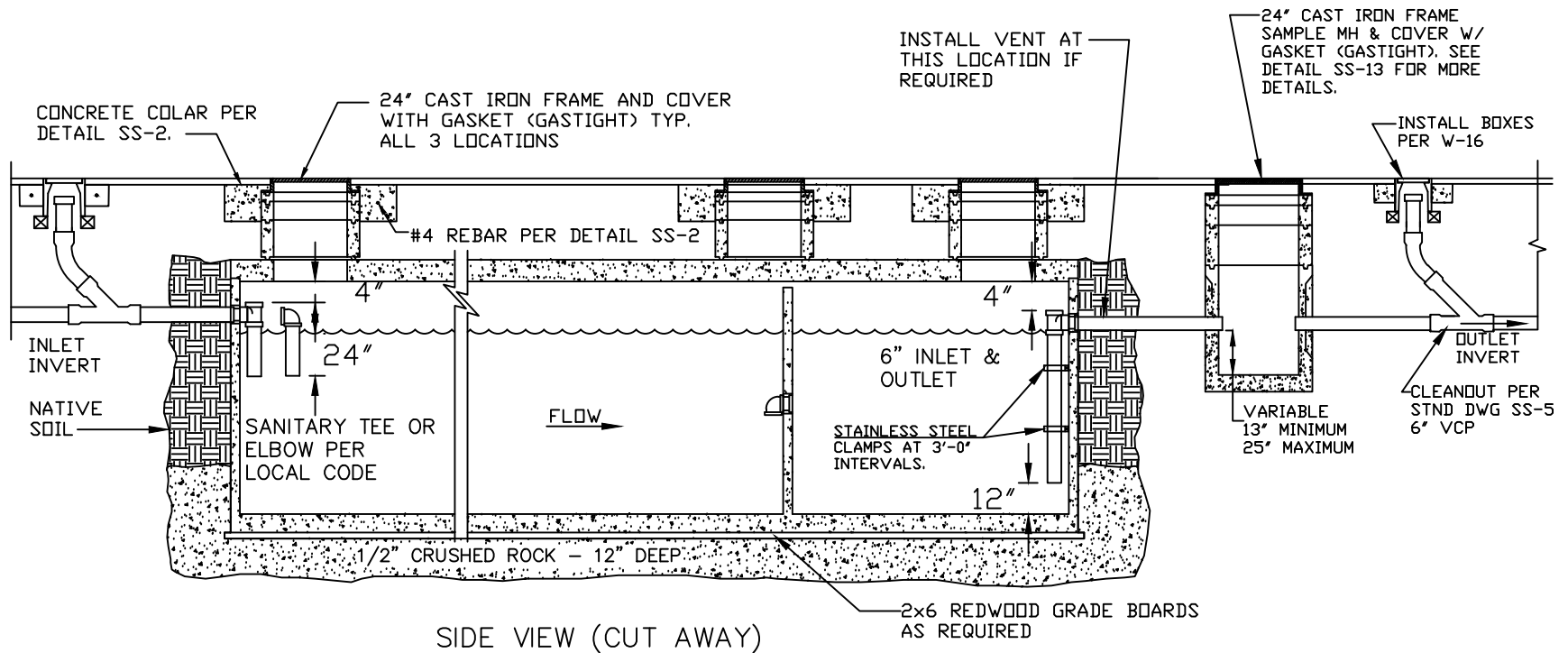
SCALE: NONE

REVISED: JANUARY 2026

DRAWN BY: G. HEIDE

APPROVED BY: RICHARD PLECKER

SS-6A



SIDE VIEW (CUT AWAY)

MIN. BOX DESIGN LOAD: H-20 TRAFFIC

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ENVIRONMENTAL UTILITIES DIRECTOR

*NOTE: THE PRECAST CONCRETE UNITS SHALL BE PLACED ON LEVEL UNDISTURBED SOIL, W/1/2" CRUSHED ROCK 12" DEEP. TWO 2x6 REDWOOD GRADE BOARDS SHALL BE PLACED BELOW THE TANK SIDE WALLS ALONG THE LONG DIMENSION PER THR MANUFACTURERS GUIDELINES.

SIZING SHALL BE BASED ON CALIFORNIA PLUMBING CODE

*NOTE: PRIOR TO BACKFILL, INTERCEPTOR SHALL BE FILLED WITH WATER AND HELD FOR 24HRS WITH NO VISIBLE LEAKAGE.

*NOTE: IF SIZE IS <1000 GAL, INTERCEPTOR DOES NOT HAVE MIDDLE MANHOLE

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SAND/OIL INTERECEPTOR

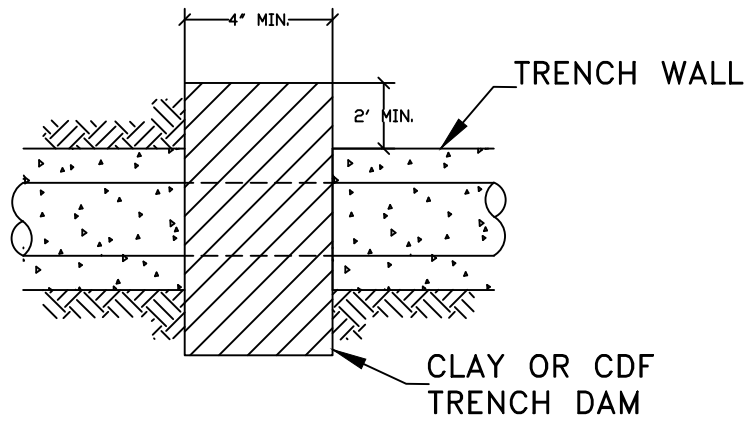
SCALE: NONE

REVISED: JANUARY 2025

DRAWN BY: R. VAN NESS

APPROVED BY: RICHARD PLECKER

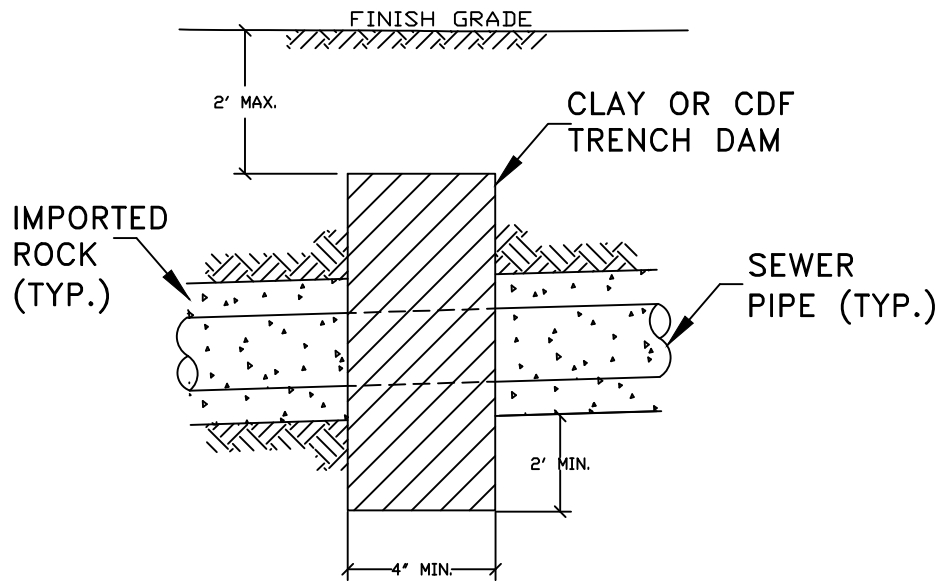
SS-7



PLAN VIEW

NOTE:

TRENCH DAM SHALL BE CONSTRUCTED OF CLEAN CLAY MATERIAL OR CONTROLLED DENSITY FILL.



PROFILE VIEW

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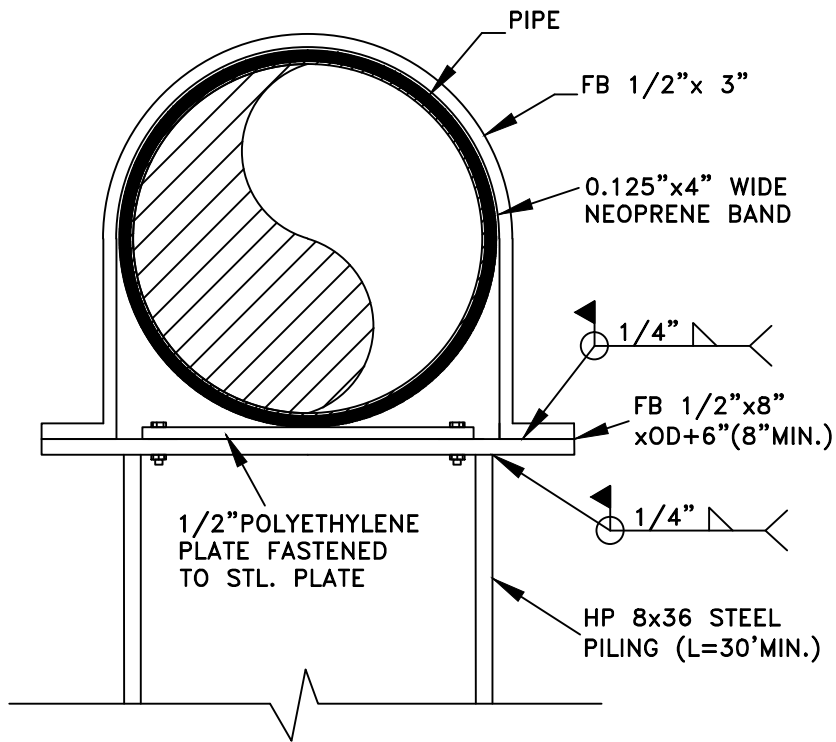


ENVIRONMENTAL UTILITIES
DEPARTMENT

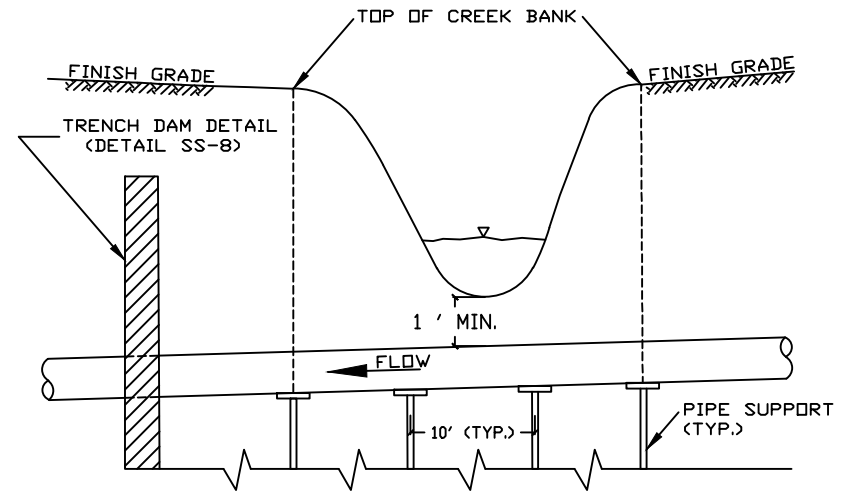
TRENCH DAM

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

SS-8



PIPE SUPPORT DETAIL



CREEK CROSSING

Richard D. Plecker


RICHARD PLECKER
ENVIRONMENTAL UTILITIES DIRECTOR

MTRL. NOTES:

1. STRUCTURAL STL. SHALL BE A36 (Fy=36ksi)
2. WELDING RODS SHALL BE E70 (Fy=70ksi)

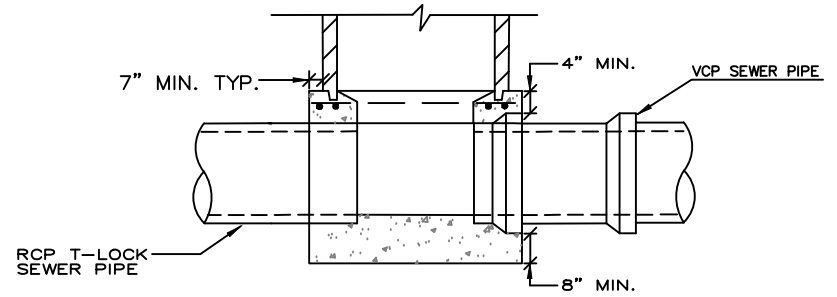
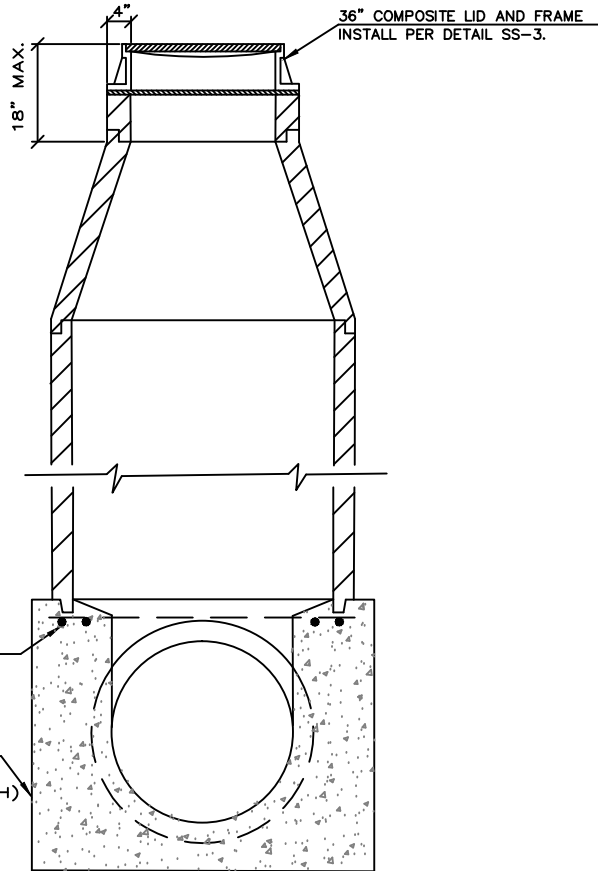
DESIGN NOTES:

1. PILES SHALL BE 10' ON CENTER BEGINNING AND ENDING AT CREEK BOTH SIDES "TOP OF BANK" AND AS NOTED ON THE PROJECT PLANS.

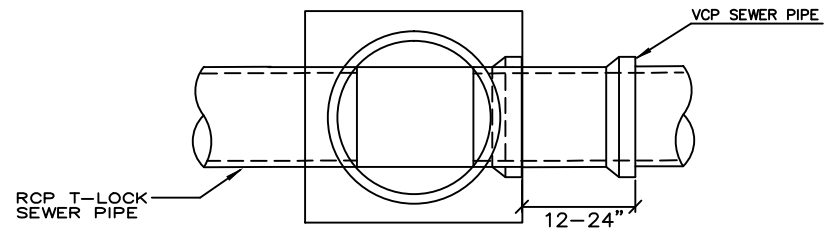
	ENVIRONMENTAL UTILITIES DEPARTMENT
CREEK CROSSING SUPPORT	
SCALE: NONE REVISED: JANUARY 2016 DRAWN BY: R. VAN NESS APPROVED BY: RICHARD PLECKER	
SS-9	

NOTES

1. MANHOLE LID SHALL BE SEALED WITH AN APPROVED RUBBER GASKET.
2. JOINTS SHALL BE MORTARED INSIDE AND OUT.
3. APPLY EPOXY COATING TO INTERIOR SURFACES OF MANHOLE IN ACCORDANCE WITH CITY STANDARDS 91-10 K.
4. PROVIDE SPARK TEST OVER ENTIRE PROTECTIVE COATINGS AFTER INSTALLATION.
5. SEE STANDARD DETAIL SS-2 FOR ADDITIONAL REQUIREMENTS.



PROFILE



PLAN

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ENVIRONMENTAL UTILITIES DIRECTOR

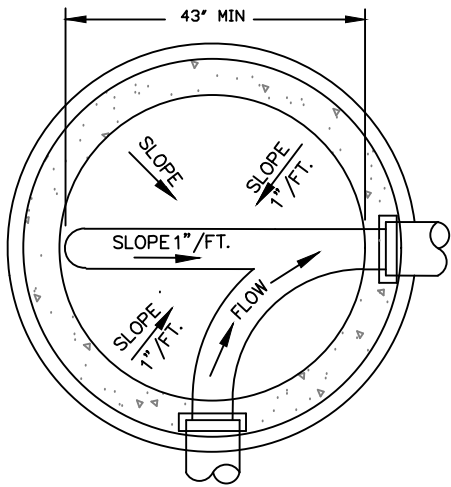


ENVIRONMENTAL UTILITIES
DEPARTMENT

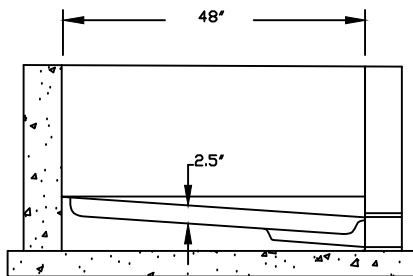
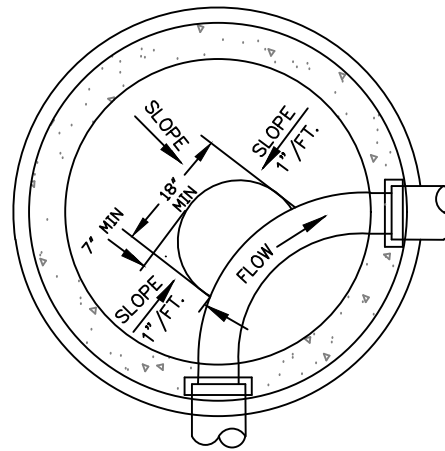
**60"+ SEWER TRUNK MAIN
MANHOLE**

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

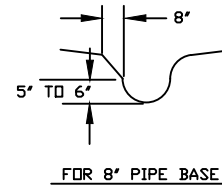
SS-10



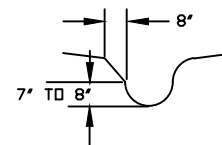
PLAN



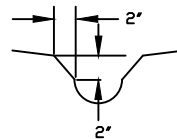
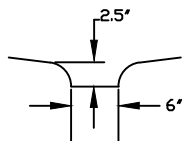
ELEVATION



FOR 8' PIPE BASE



FOR 10' PIPE BASE



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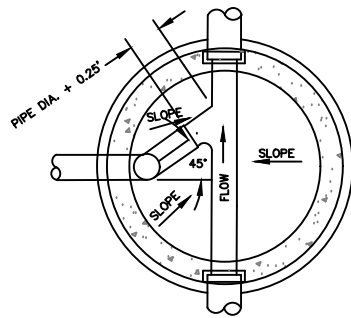
CITY OF
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CALIFORNIA

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DEPARTMENT

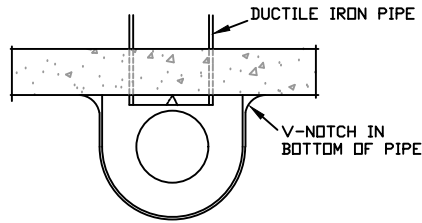
**CAMERA CHANNEL
MANHOLE**

SCALE: NONE
REVISED: JANUARY 2018
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

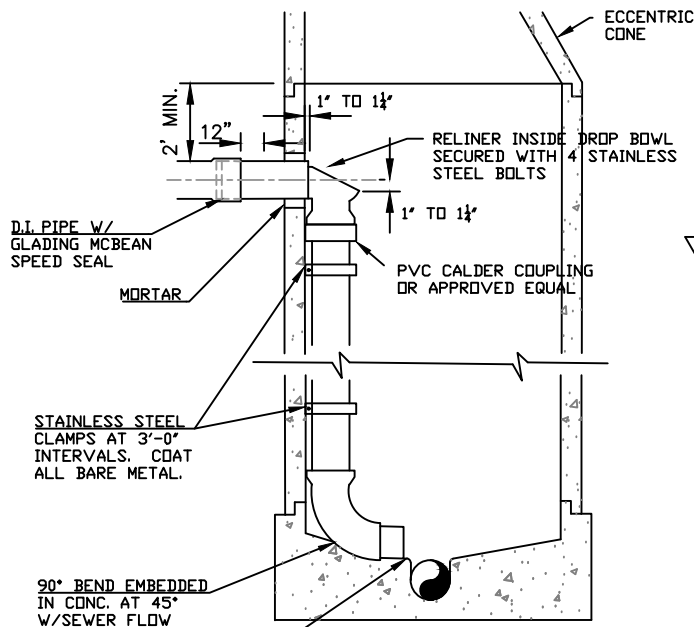
SS-11



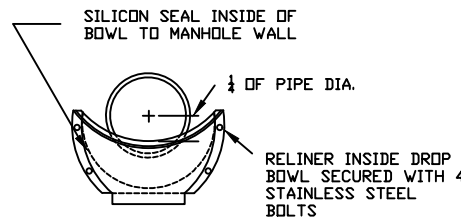
PLAN



DROP BOWL
MOUNTING POSITION
TOP VIEW



ELEVATION



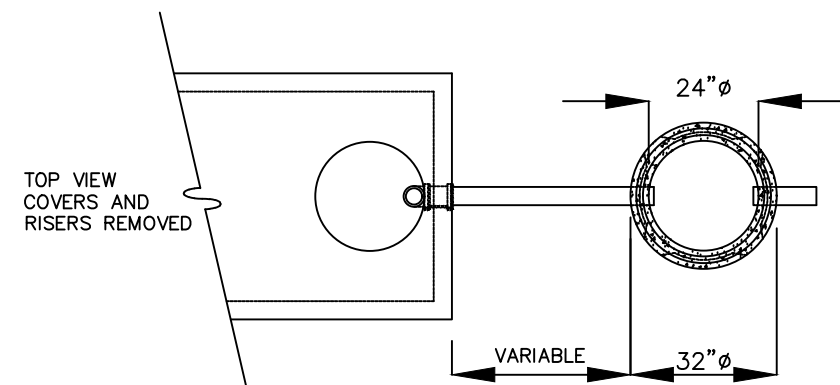
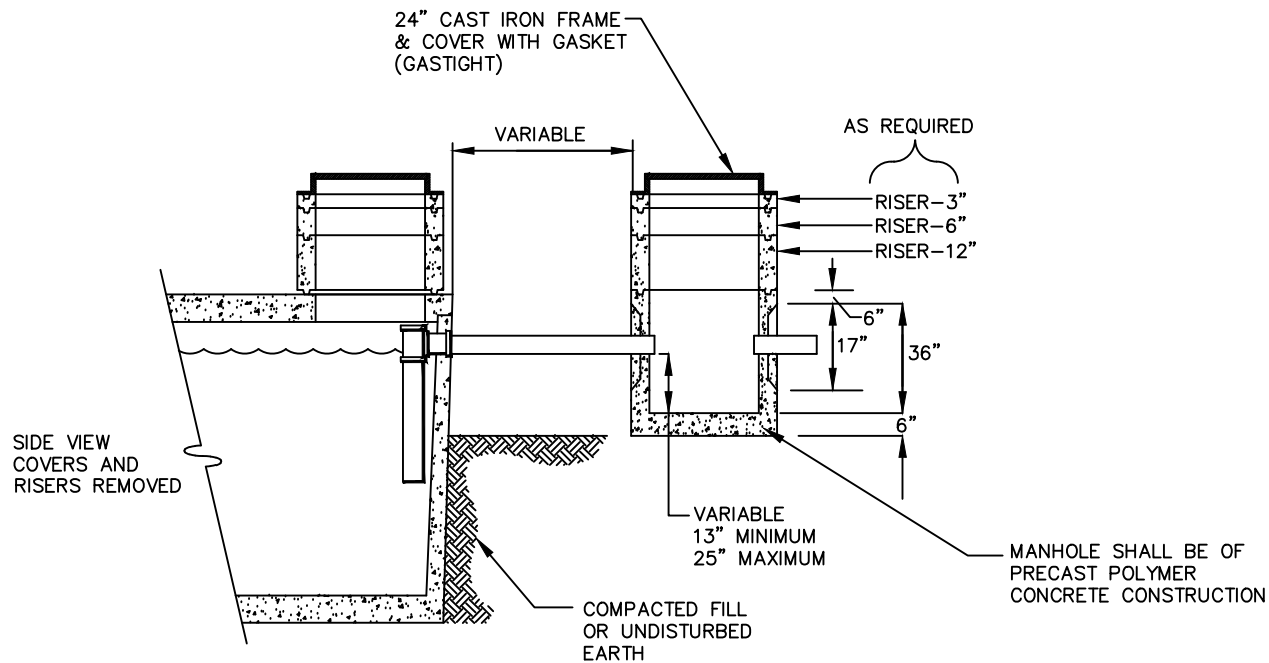
DROP BOWL
MOUNTING POSITION
FRONT VIEW

NOTES

1. INSIDE DROP PIPING SHALL BE P.V.C. PIPE, SCHEDULE 40.
2. PRIME AND CEMENT ALL JOINTS AS RECOMMENDED BY THE MANUFACTURER.
3. USE ECCENTRIC CONE WITH OPENING ALIGNED ABOVE DROP CONNECTION.
4. INSIDE DROP CONNECTION SHALL USE DROP BOWL AS PRODUCED BY RELINER DURAN, INC. 53 MT ARCHER RD. LYME CT. 03671 (860)434-0277 FAX: (860)434-3195 OR APPROVED EQUAL DROP BOWL MODEL "A-4" SHALL BE USED FOR ALL LINES UP THROUGH FULL 6" INLETS. DROP BOWL MODEL "A-6" SHALL BE USED FOR ALL 8" INLETS. DROP BOWL MODEL "B-8" SHALL BE USED FOR ALL 10" INLETS. DROP BOWL MODEL "B-10" SHALL BE USED FOR ALL 12" INLETS.
5. ATTACH DROP BOWL & EACH CLAMPING BRACKET TO THE MANHOLE WALL WITH STAINLESS STEEL 3/8" X 3/4" RAMSET/RED HEAD BOLTS. PRE-ROTO DRILL AND SET BOLTS IN PLACE WITH EPOXY PASTE. EPOXY PASTE SHALL MEET THE FOLLOWING REQUIREMENTS:
 - A. EPOXY PASTE SHALL BE A TWO COMPONENT 100% SOLID SYSTEM. EPOXY SHALL BE SIKADUR 31 HI-MOD GEL BY SIKA CORPORATION PHONE (592) 941-0231 OR EQUAL.
 - B. THE EPOXY PASTE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI IN 28 DAYS WHEN TESTED IN ACCORDANCE WITH ATSM D695 AT 73 DEGREES.
 - C. THE EPOXY PASTE SHALL DEVELOP A MINIMUM TENSILE STRENGTH OF 3,000 PSI IN 14 DAYS WHEN TESTED IN ACCORDANCE WITH ATSM D638.
 - D. THE EPOXY PASTE SHALL DEVELOP A MINIMUM BOND STRENGTH OF 2,000 PSI IN 2 DAYS WHEN TESTED IN ACCORDANCE WITH ATSM C882 (HARDENED CONCRETE TO HARDENED CONCRETE).
 - E. MANUFACTURER'S INSTRUCTION SHALL BE PRINTED ON EACH CONTAINER IN WHICH THE MATERIALS ARE PACKAGED.

RICHARD PLECKER
ENVIRONMENTAL UTILITIES DIRECTOR

	ENVIRONMENTAL UTILITIES DEPARTMENT
INSIDE DROP CONNECTION	
SCALE: NONE REVISED: JANUARY 2025 DRAWN BY: D. SAMUELSON APPROVED BY: RICHARD PLECKER	
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Richard D. Plecker

RICHARD PLECKER
ENVIRONMENTAL UTILITIES DIRECTOR

CITY OF **ROSEVILLE** ENVIRONMENTAL UTILITIES DEPARTMENT
CALIFORNIA

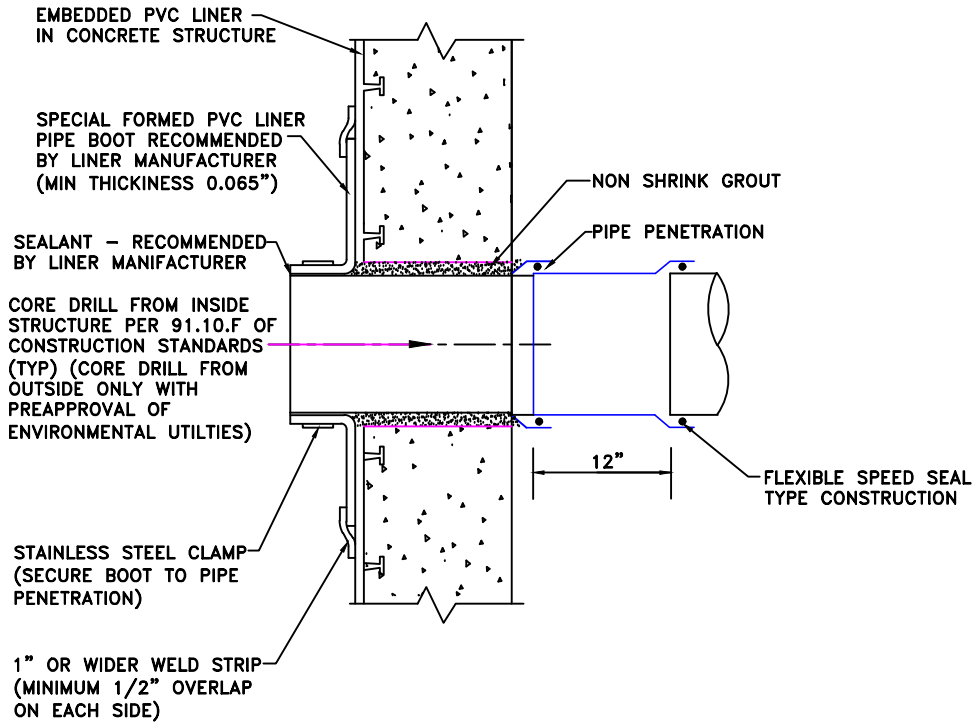
**DOWNSTREAM SAMPLING
MANHOLE FOR INTERCEPTORS**

SCALE: NONE
REVISED: JANUARY 2025
DRAWN BY: J. VAROZZA
APPROVED BY: RICHARD PLECKER

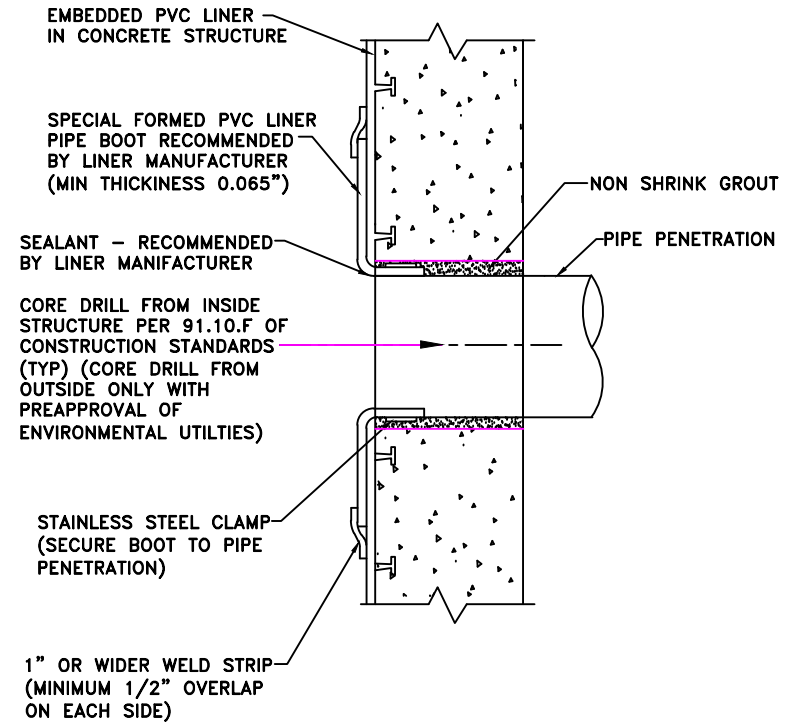
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NOTES

1. SAMPLING MANHOLE SHALL HAVE AN H-20 TRAFFIC RATING
2. THE SAMPLE MANHOLE MUST BE PLACED ON SUITBLE BASE OF COMPACTED SOIL OR UNDISTURBED EARTH IN TRAFFIC CONDITION.



REVERSE BOOT TYPE 1



BOOT TYPE 2

Richard D. Plecker

RICHARD PLECKER
ENVIRONMENTAL UTILITIES DIRECTOR

NOTES:

1. ARMORLOK PVC PROTECTIVE LININGS OR EQUIVALENT PREAPPROVED UTILITIES.
2. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
3. ON BOOT TYPE 2 PENETRATIONS FOR REHABILITATIONS ON 24" AND ABOVE, A 1/8" WIDE X 1-1/2" DEEP GROOVE CAN BE SAW CUT AROUND PIPE AND A LINER SHEET CAN BE PUSHED INTO GROOVE, ONLY IF ORIGINAL LINER ANCHORAGE IS WITHIN 2" OF THE CIRCUMFERENCE OF THE PENETRATION. SMALLER PENETRATIONS MUST BE CHIPPED OUT AND CLAMP MUST BE APPLIED.



ENVIRONMENTAL UTILITIES
DEPARTMENT

**PVC LINER PENETRATION
SEALING DETAIL**

SCALE: NONE
REVISED: JANUARY 2025
DRAWN BY: JACK VAROZZA
APPROVED BY: RICHARD PLECKER

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