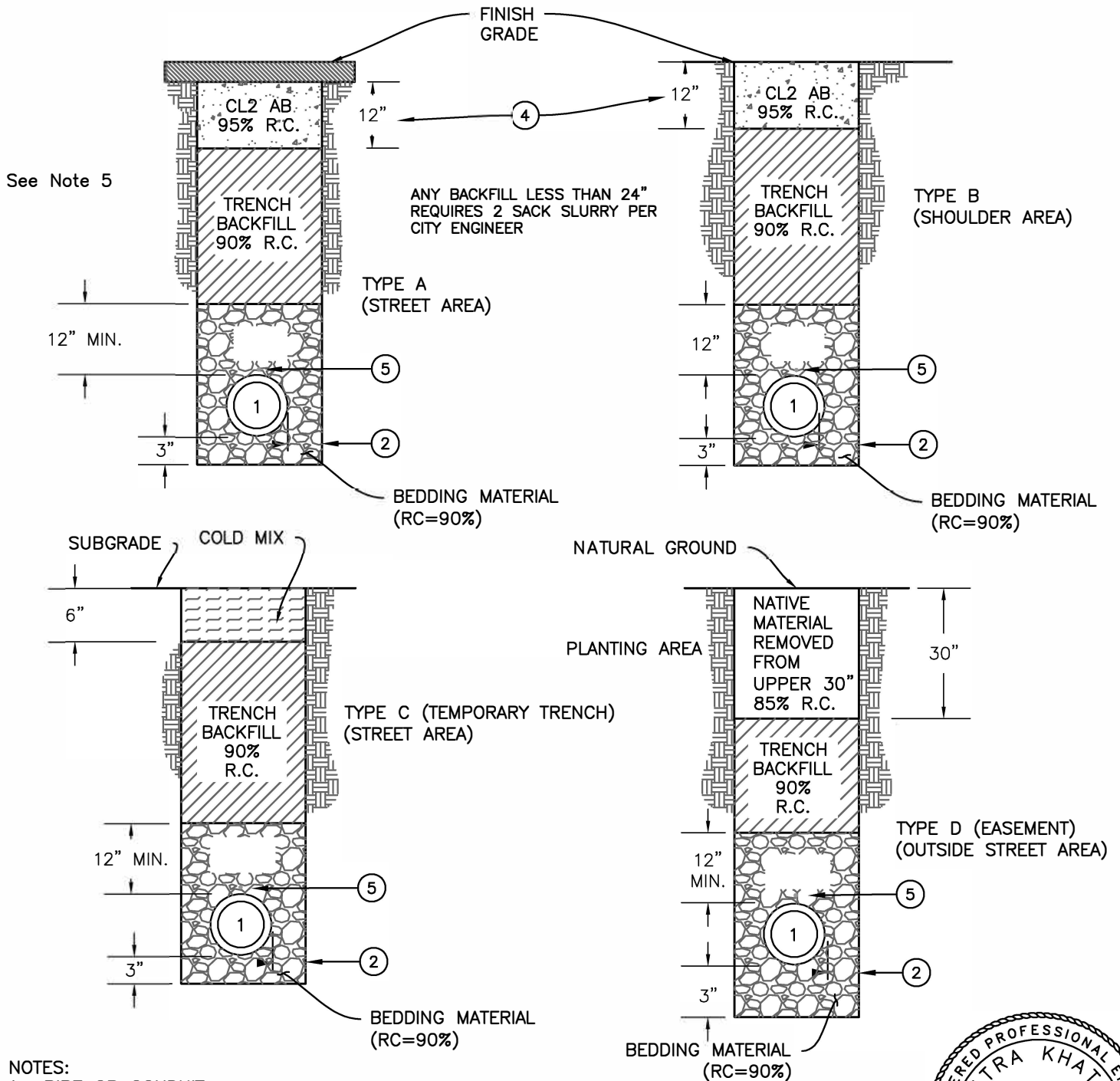


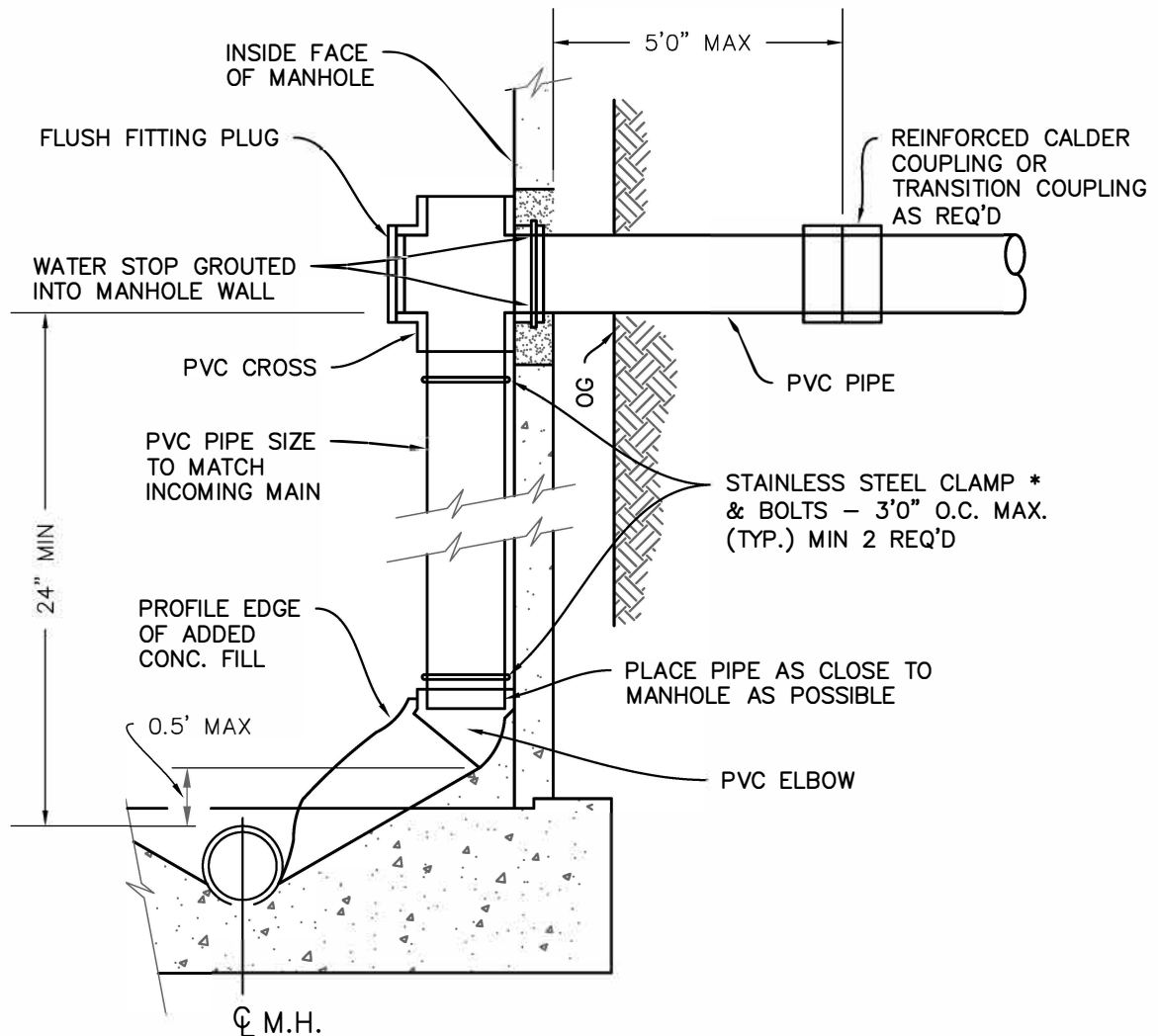


NOTES:

1. PIPE OR CONDUIT
2. PIPE DIAMETER 12" OR LESS: 6" MIN. - 9" MAX.
PIPE DIAMETER GREATER THAN 12": 9" MIN. - 12" MAX.
3. RELATIVE COMPACTION DESIGNATED R.C.
4. THE STREET STRUCTURAL SECTION SHALL BE PER CITY STD DTL "PAVEMENT RESTORATION".
5. # 10 COPPER TRACER WIRE TO BE TAPED TO THE TOP OF THE PIPE.



REVISION	BY	APPROVED	DATE	CITY OF ARCATA TRENCH BACKFILL AND SURFACING (AS APPLICABLE)	APPROVED BY:
UPDATE	MA	DFC	04/2023		
UPDATE	SL	NK	09/2024		N. B. KHATRI, R.C.E. #75428
					DRAWING NUMBER SS-01



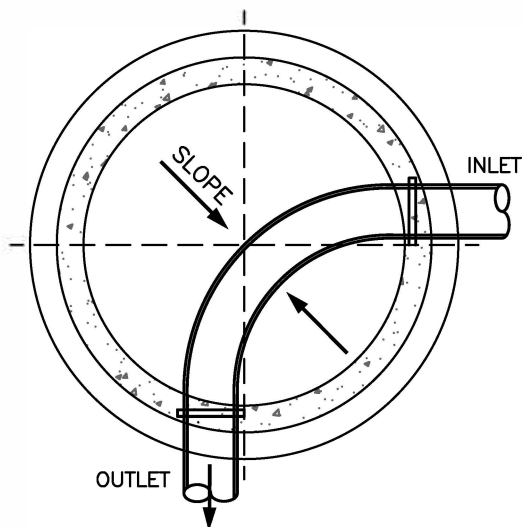
* 3/32" X 3/4" CLAMP FOR 6" & 8" PIPES, AND 1/8" X 1" CLAMP FOR 10" & 12" PIPES

NOTES:

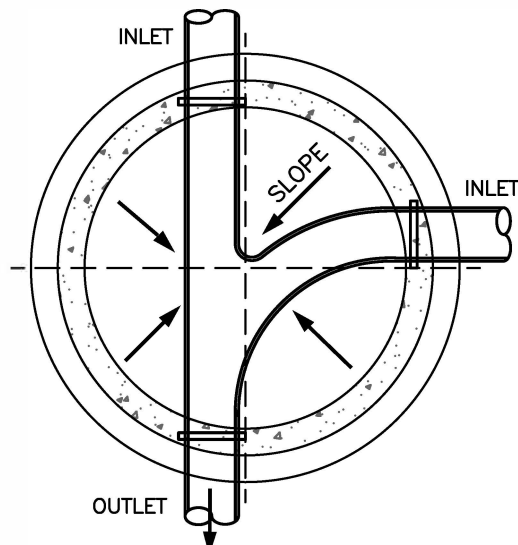
1. TO BE USED WITH PRIOR APPROVAL OF DEPARTMENT OF PUBLIC WORKS.
2. INSTALL WATERDROP IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AS SHOWN.
3. NEW MANHOLES CONSTRUCTED USING THIS STANDARD SHALL BE 60 INCHES IN DIAMETER.
4. ENCLOSE ELBOWS IN CONCRETE. FORM SMOOTH CHANNEL TO MANHOLE FLOWLINE.
5. PVC PIPE AND FITTINGS TO BE SDR-35 OR SCH-40



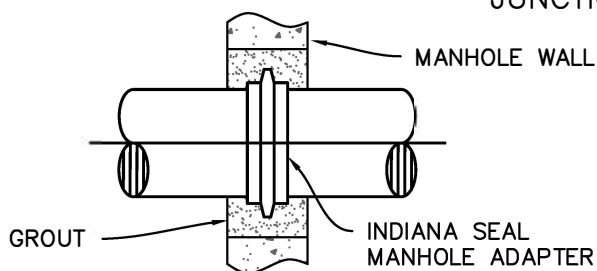
REVISION	BY	APPROVED	DATE	CITY OF ARCATA	APPROVED BY:
UPDATE	MA	DFC	04/2023		
				INSIDE DROP-IN SANITARY SEWER MANHOLE	 N. B. KHATRI, R.C.E. #75428
					DRAWING NUMBER
					SS-02



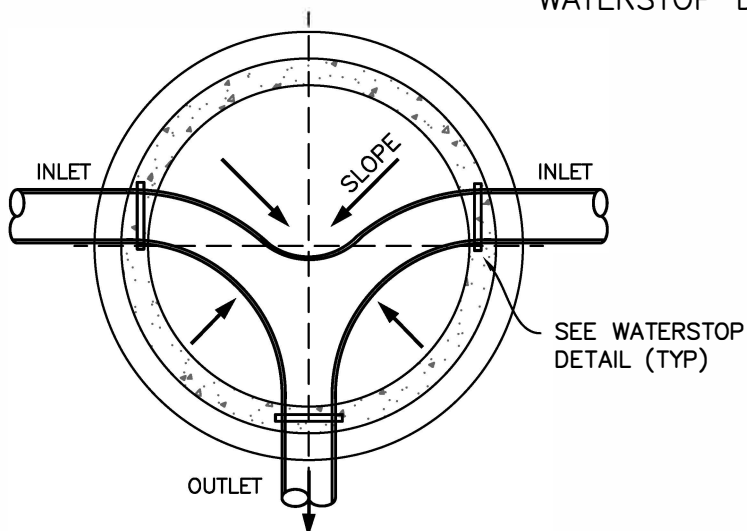
STANDARD
MANHOLE



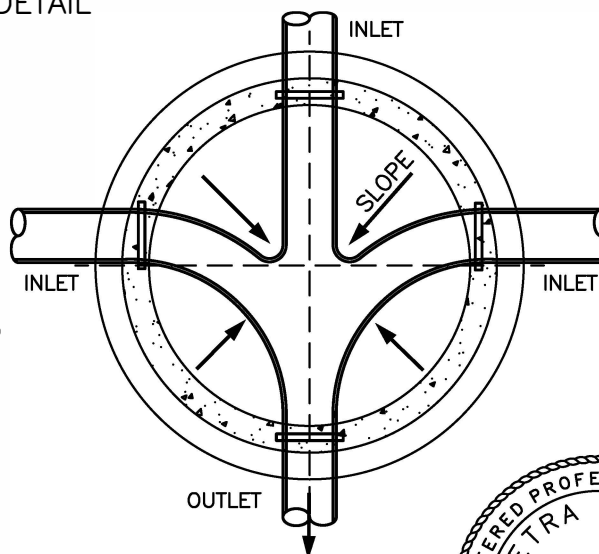
JUNCTION MANHOLE



WATERSTOP DETAIL



JUNCTION MANHOLE



JUNCTION MANHOLE

NOTES:

1. THERE SHALL BE A 0.1' DROP ACROSS BASE OF MANHOLE FROM INLET TO OUTLET
2. LAY PIPE THROUGH MANHOLE - CUT OUT FLOWLINE AND GROUT



REVISION	BY	APPROVED	DATE
UPDATE	MA	DFC	04/2023

CITY OF ARCATA

STANDARD MANHOLE
CHANNEL DETAILS

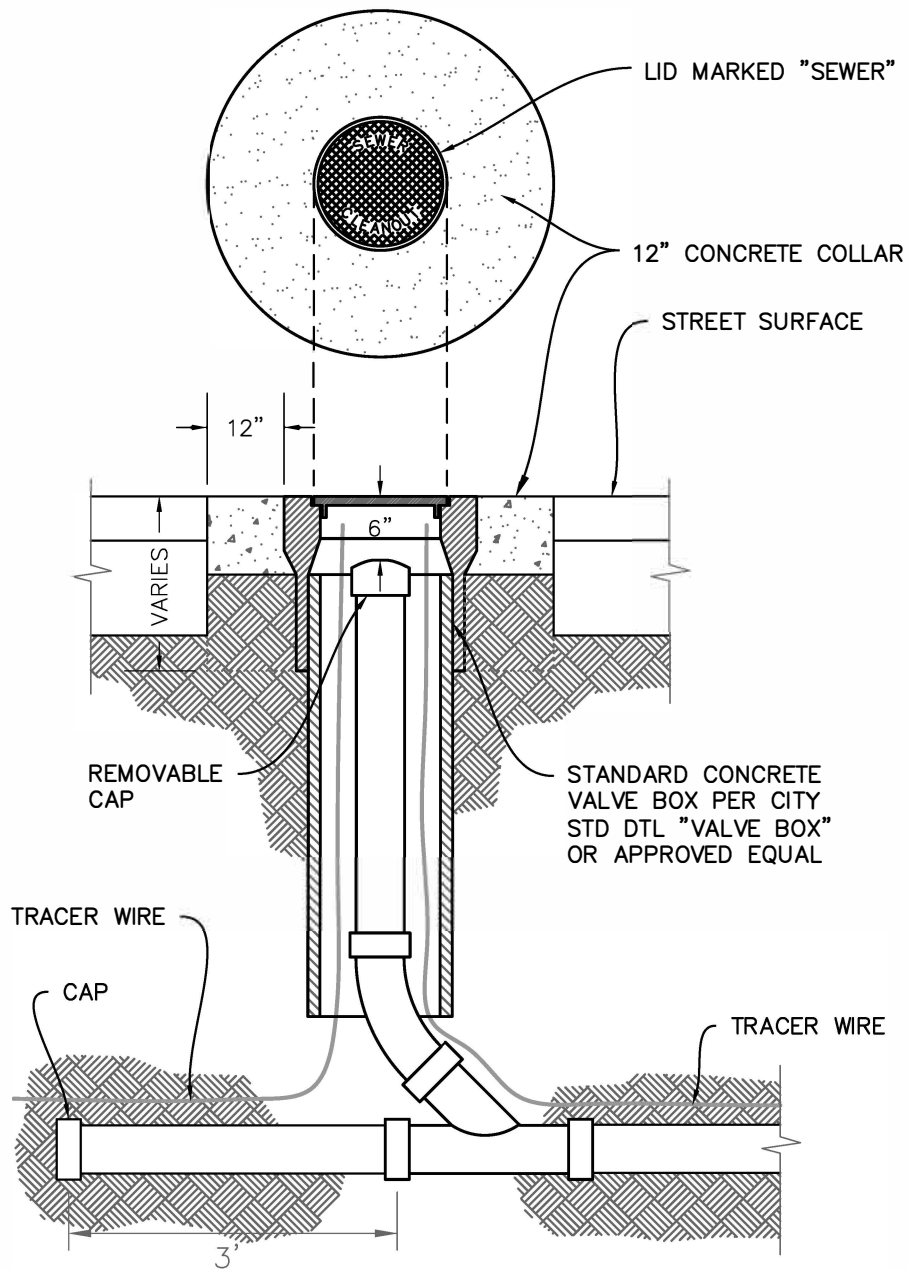
APPROVED BY:

Netra Khatri

N. B. KHATRI, R.C.E. #75428

DRAWING
NUMBER

SS-03



NOTES:

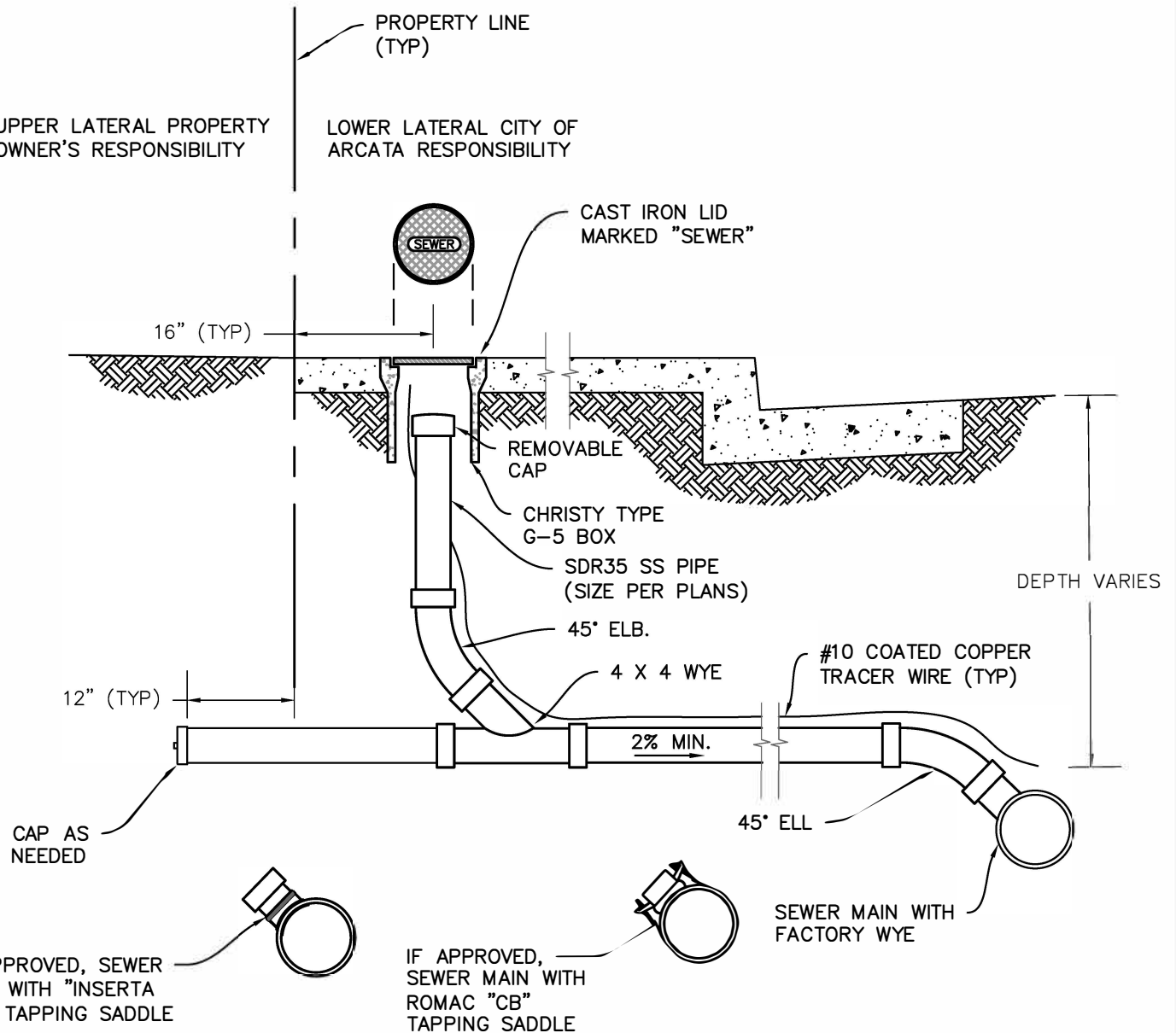
1. ALL PIPES ARE TO BE SDR35 OR APPROVED EQUAL.
2. SIZES INDICATED ARE MINIMUM.
3. FOR BACKFILL, SEE TRENCH STANDARD SP 02.
4. TRACER WIRE TO BE #10 COATED COPPER.



REVISION	BY	APPROVED	DATE	CITY OF ARCATA	APPROVED BY:
UPDATE	MA	DFC	04/2023		
				CLEANOUT	 N. B. KHATRI, R.C.E. #75428
					DRAWING NUMBER SS-04

UPPER LATERAL PROPERTY
OWNER'S RESPONSIBILITY

LOWER LATERAL CITY OF
ARCATA RESPONSIBILITY

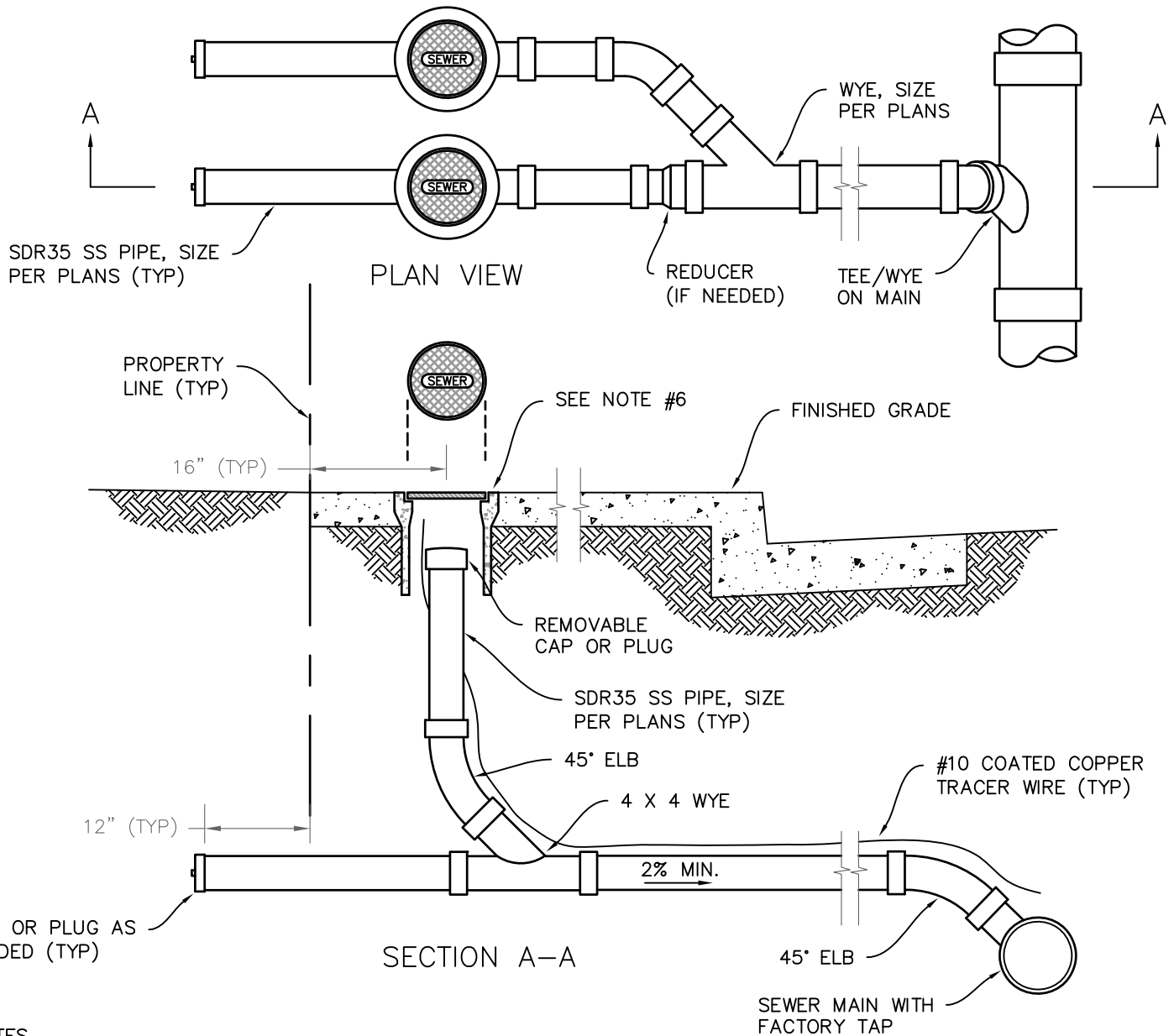


NOTES:

1. THE SEWER LATERAL DEPTH SHALL BE SUFFICIENT DEPTH TO ADEQUATELY SERVE THE BUILDING SITE, AND IN NO CASE SHALL BE LESS THAN 3' AT THE BACK OF SIDEWALK OR P.U.E. UNLESS AUTHORIZED BY THE CITY.
2. WHERE PROBLEMS ARE ANTICIPATED IN PROVIDING SEWER SERVICE TO A GIVEN BUILDING SITE, THE LATERAL LOCATION SHALL BE STAKED BY THE OWNERS ENGINEER AT THE BACK OF WALK OR P.U.E. AND MARKED WITH A DEPTH TO INVERT.
3. LATERAL SHALL SLOPE A MINIMUM OF 2% UNLESS SPECIFICALLY APPROVED BY THE CITY.
4. NEW LATERAL SHALL EXTEND 1' BEHIND WALK OR P.U.E.
5. #10 COATED COPPER TRACER WIRE SHALL BE ATTACHED TO MAIN LINE WIRE.
6. WHEN FACTORY TAP IS NOT AVAILABLE ROMAC "CB" SADDLE TAP WILL BE USED FOR 6 AND 8 INCH LINES AND "INSERTA TEE" FOR LINES 10 INCH OR GREATER. TAPS WILL BE INSTALLED USING A HOLE SAW FOLLOWING MANUFACTURES INSTRUCTIONS.



REVISION	BY	APPROVED	DATE	CITY OF ARCATA	APPROVED BY:
UPDATE	MA	DFC	04/2023		
				SEWER LATERAL AND CLEANOUT	 N. B. KHATRI, R.C.E. #75428
					DRAWING NUMBER
					SS-05

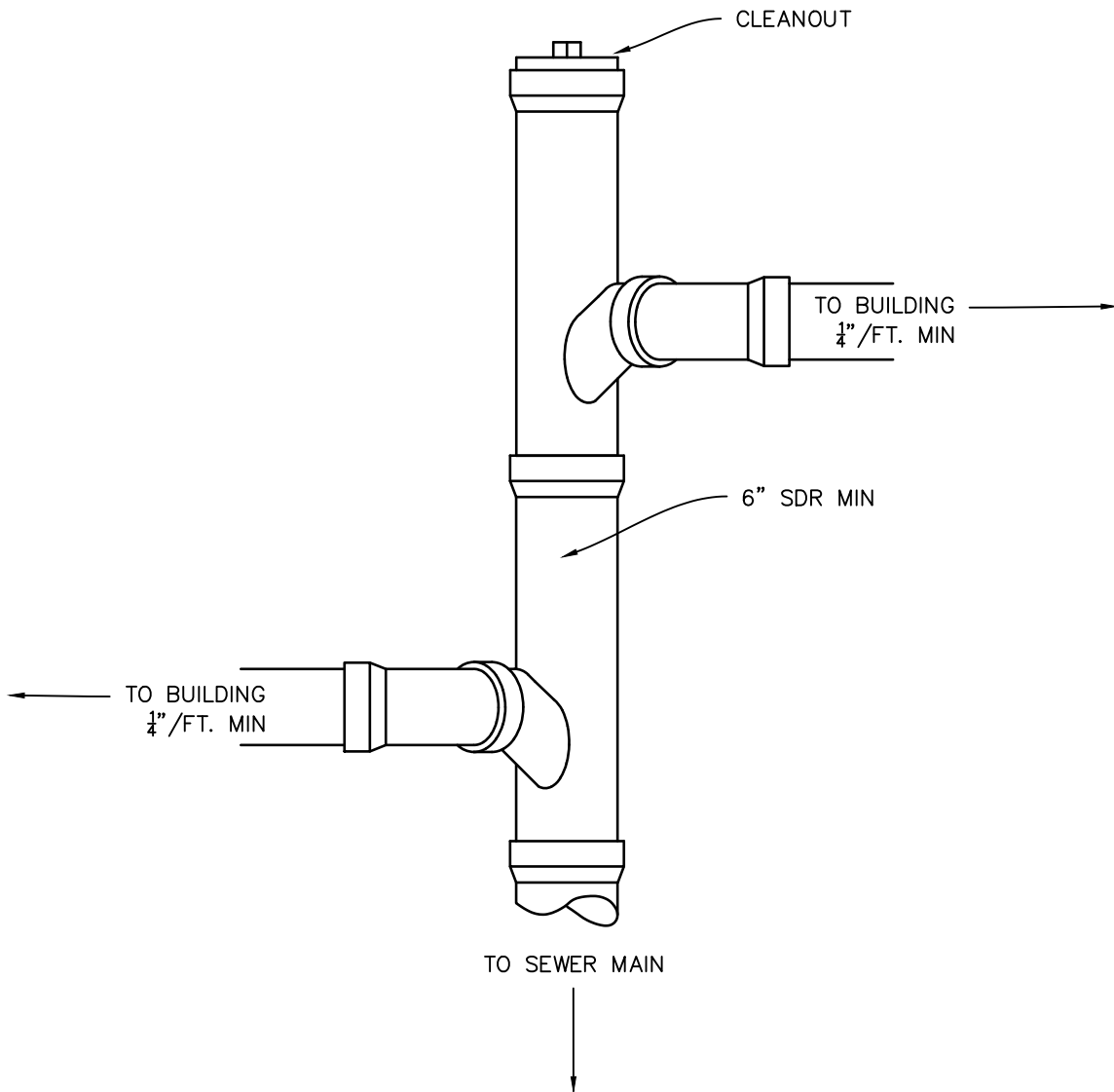


NOTES

1. THE SEWER LATERAL DEPTH SHALL BE SUFFICIENT TO ADEQUATELY SERVE THE BUILDING SITE, AND IN NO CASE SHALL BE LESS THAN 3' AT THE BACK OF SIDEWALK OR PUE UNLESS AUTHORIZED BY THE CITY ENGINEER.
2. LATERAL SLOPE TO BE A MINIMUM OF 2% UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
3. ALL PIPES ARE TO BE SDR35 OR APPROVED EQUAL, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
4. TRACER WIRE SHALL BE ATTACHED TO MAINLINE WIRE.
5. LATERAL CONNECTION TO MAINLINE SHALL BE FACTORY TAP OR BREAK-IN WITH SADDLE. GROUTED BREAK-INS SHALL BE REPLACED.
6. BOX AND LID AS PER CITY STD DTL G-01, WITH LID STAMPED "SEWER".
7. WHEN CLEANOUT NOT INSTALLED IN CONCRETE WALK A CONCRETE COLLAR SHALL BE INSTALLED AS PER CITY STD DTL SS-04.
8. ALL CONCRETE SHALL BE 520-C-2500 AS PER THE "GREENBOOK" STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. ALL CONCRETE SHALL CONTAIN 3 LBS OF LAMP BLACK PER CUBIC YARD.
9. TRENCH BACKFILL PER CITY STD DTL G-02.
10. INSPECTION OF FINISHED WORK REQUIRED. SCHEDULE INSPECTION A MINIMUM OF 24 HOURS IN ADVANCE.



REVISION	BY	APPROVED	DATE	CITY OF ARCATA	APPROVED BY:
UPDATE	MA	DFC	04/2023		
				DOUBLE SERVICE SEWER LATERAL	 N. B. KHATRI, R.C.E. #75428
					DRAWING NUMBER
					SS-06

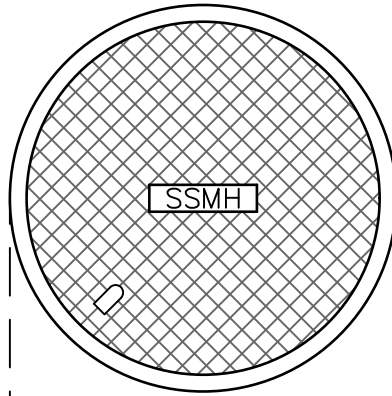


NOTES:

1. ALL EFFORT SHALL BE MADE TO NOT CONNECT TO THE SEWER MAIN DIRECTLY ON TOP OF THE PIPE.
2. SEWER LATERALS SHALL HAVE A MINIMUM SLOPE OF 2%.
3. ALL JOINTS ON SEWER LATERAL PIPE SHALL BE COMPRESSION TYPE OR APPROVED SOLVENT WELD.
4. LATERAL SHALL EXTEND TO PROPERTY LINE UNLESS OTHERWISE SHOWN ON PLANS.
5. ALL EFFORT SHALL BE MADE TO ENSURE TWO CONNECTIONS NOT BE MADE IN THE SAME LENGTH OF PIPE.



REVISION	BY	APPROVED	DATE	CITY OF ARCATA	APPROVED BY: 
UPDATE	MA	DFC	04/2023		
				VERTICAL LATERAL CONNECTION	N. B. KHATRI, R.C.E. #75428
					DRAWING NUMBER SS-07



EDGE OF ASPHALT
DIGOUT PER CITY STD
DTL "ASPHALT DIGOUT"

12"

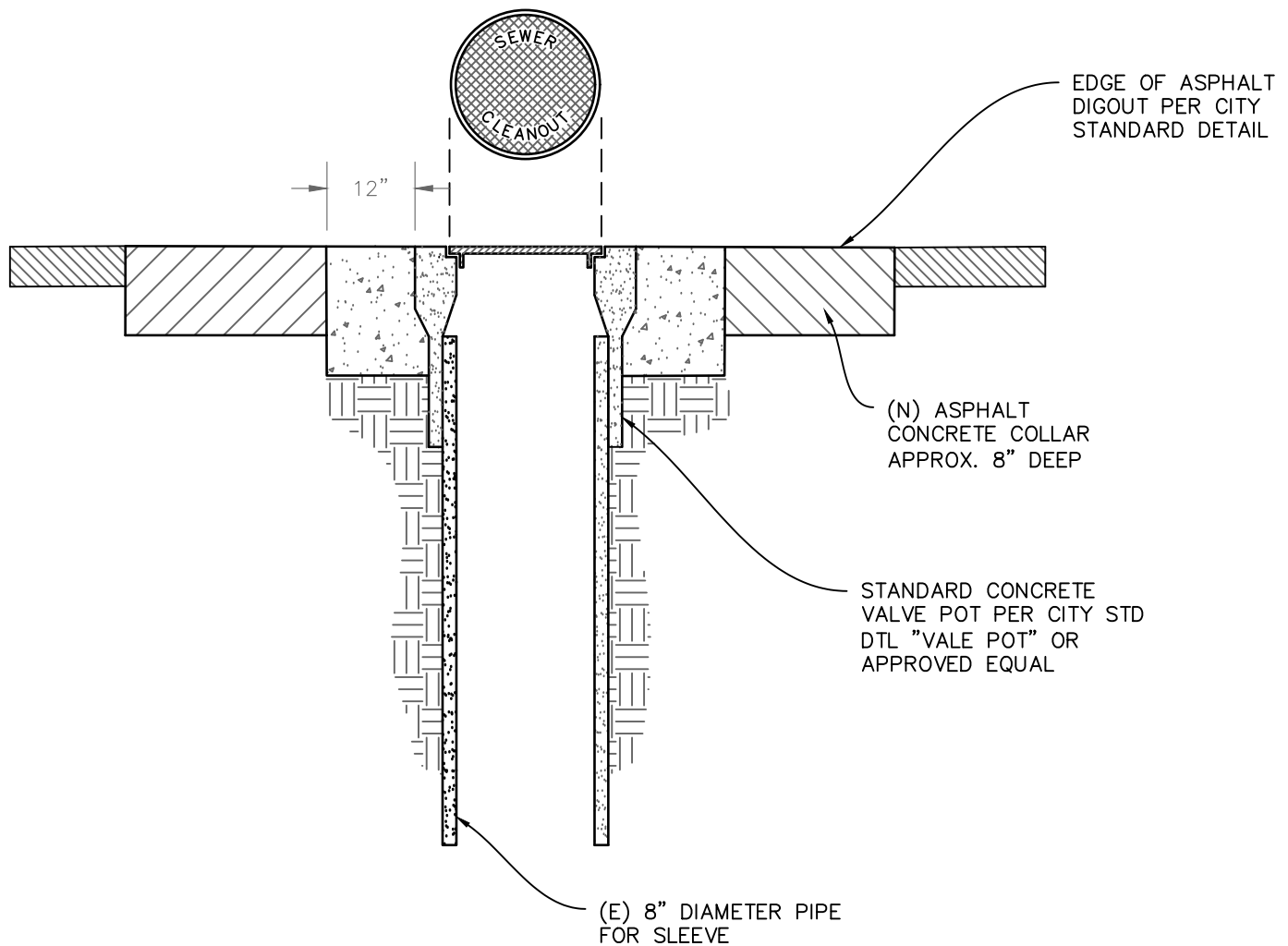
(N) ASPHALT
CONCRETE COLLAR
APPROX. 8" DEEP

NOTES:

1. HOT MIX ASPHALT SHALL BE PLACED IN LIFTS AND COMPACTED.
2. MANHOLE COVER SHOULD MATCH HEIGHT OF ADJACENT SURFACE.
3. EDGES OF EXISTING PAVEMENT SHALL BE CLEAN AND FREE OF DUST WITH A TACK COAT APPLIED BEFORE PAVING.



REVISION	BY	APPROVED	DATE	CITY OF ARCATA	APPROVED BY:
UPDATE	MA	DFC	04/2023		
				MANHOLE COVERS ADJUSTMENT DETAIL	 N. B. KHATRI, R.C.E. #75428
					DRAWING NUMBER
					SS-08

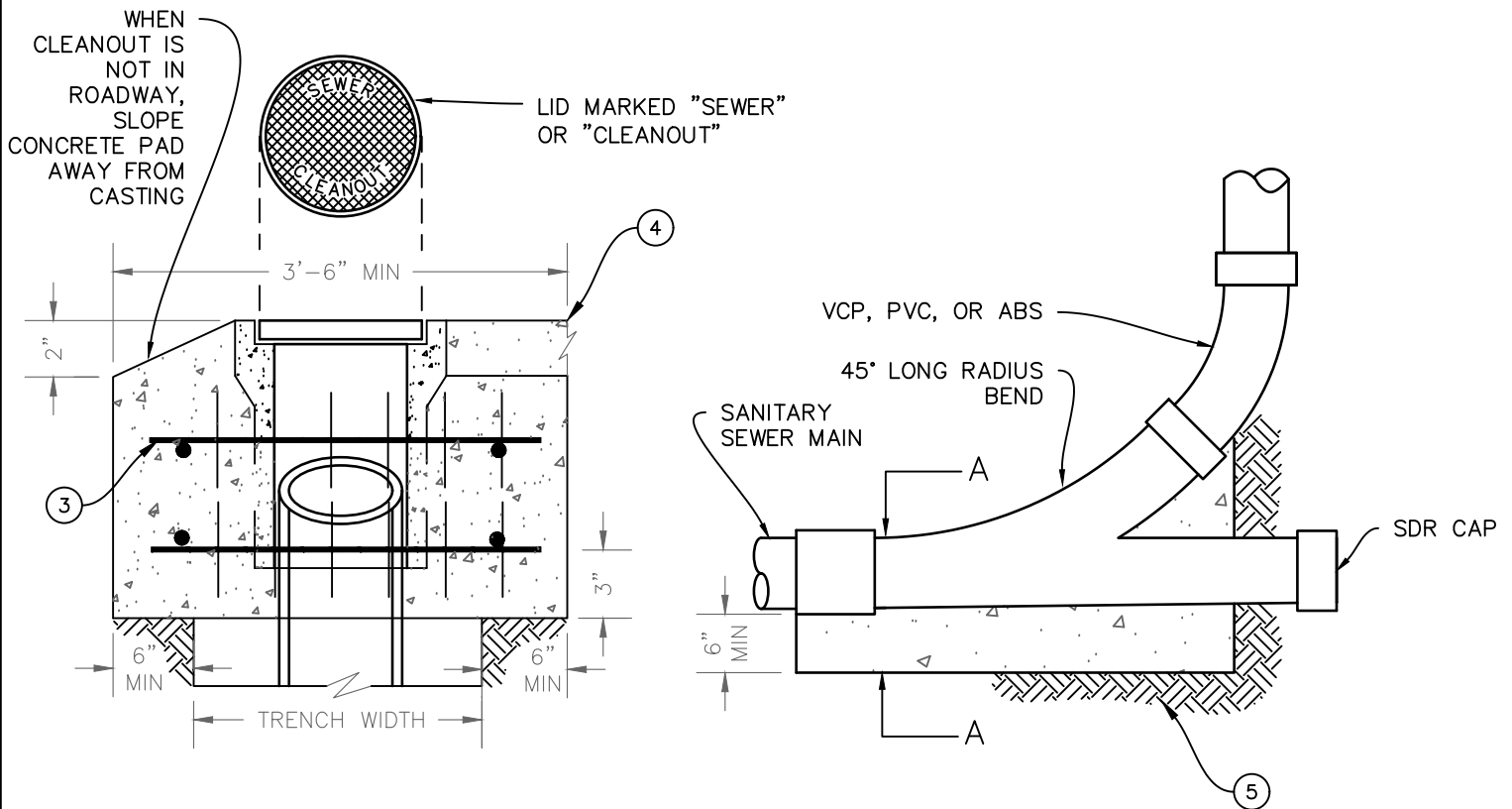


NOTES:

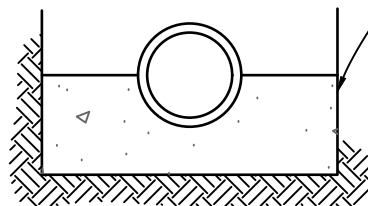
1. ENSURE POT SLIDES FREELY OVER SLEEVE PIPE.
2. HOT MIX ASPHALT SHALL BE PLACED IN LIFTS AND COMPACTED.
3. LID OF POT SHOULD MATCH HEIGHT OF ADJACENT SURFACE.
4. EDGES OF EXISTING PAVEMENT SHALL BE CLEAN AND FREE OF DUST WITH A TACK COAT APPLIED BEFORE PAVING
5. IF CLEAN OUT PLACED IN GRASS OR DIRT RAISE POT 2 INCHES ABOVE GROUND LEVEL AND POUR 1 FOOT WIDE P.C.C. RING AROUND VALVE POT 8 INCHES DEEP



REVISION	BY	APPROVED	DATE	CITY OF ARCATA	APPROVED BY:
UPDATE	MA	DFC	04/2023		
				ADJUSTMENT DETAIL SSCO, WATER VALVE, AND MONUMENT POTS	 N. B. KHATRI, R.C.E. #75428 DRAWING NUMBER SS-09



CONCRETE BASE FULL WIDTH OF TRENCH WHEN PIPE IS NOT BEDDED ON ORIGINAL GROUND



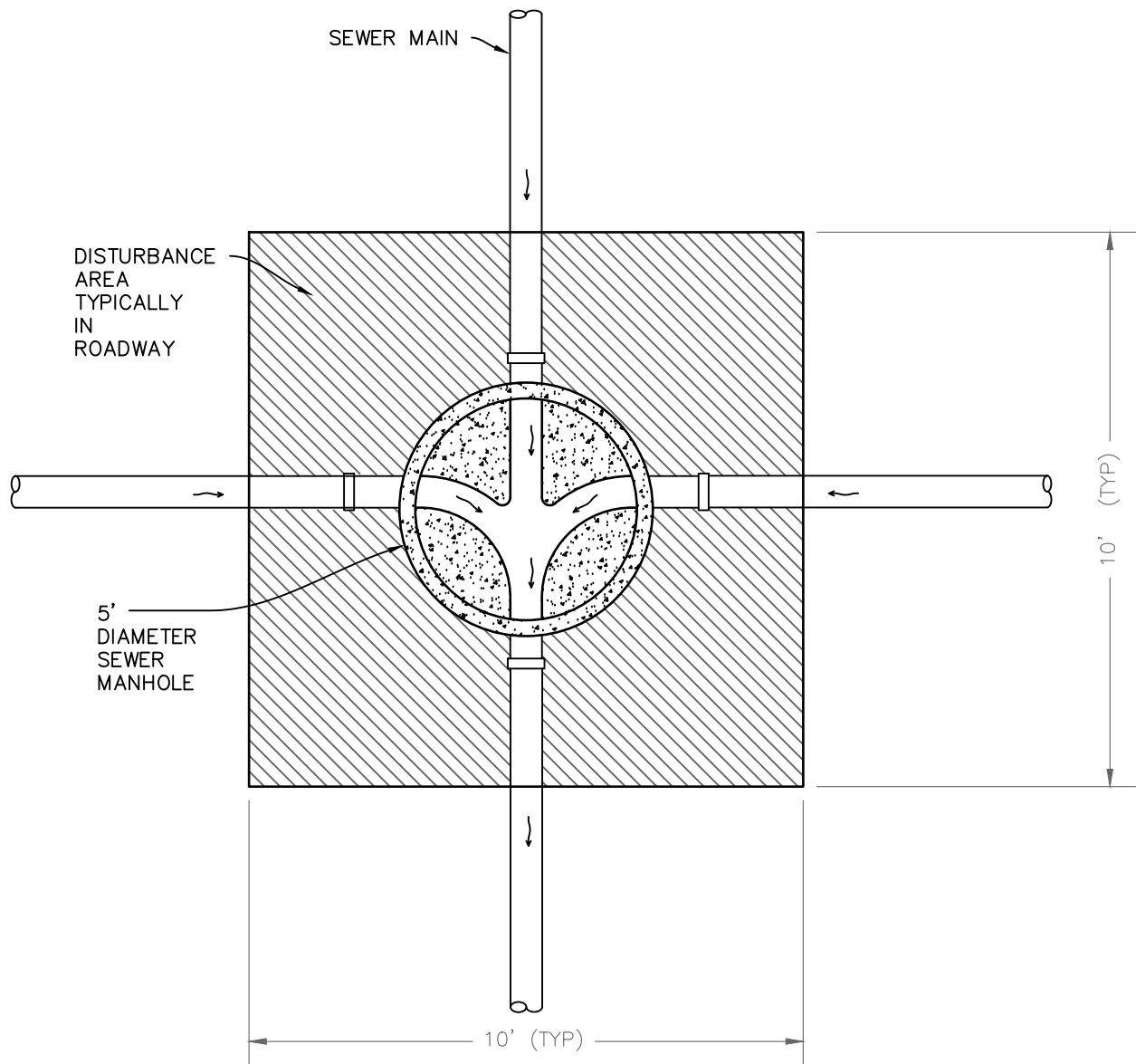
SECTION A-A

NOTES:

1. BOLT-DOWN CLEANOUT COVERS WILL NOT BE ALLOWED
2. APPROVED RIM & COVER: SEE ENGINEER'S APPROVED LIST
3. NO. 4 BARS 3'-0" LONG EACH WAY. TOTAL 8
4. CONCRETE RING
5. SANITARY SEWER RISER PIPE SHALL BE BEDDED ON UNDISTURBED EARTH OR ON CONCRETE BEDDING.



REVISION	BY	APPROVED	DATE	CITY OF ARCATA	APPROVED BY:
UPDATE	MA	DFC	04/2023		
				PERMANENT MAINLINE CLEANOUT	 N. B. KHATRI, R.C.E. #75428
					DRAWING NUMBER
					SS-10



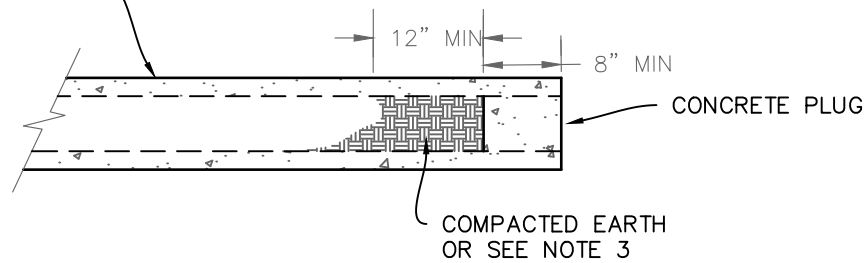
PLAN VIEW

NOTE:
SEE OTHER MANHOLE DETAILS FOR ADDITIONAL INFORMATION



REVISION	BY	APPROVED	DATE	CITY OF ARCATA	APPROVED BY: 
UPDATE	MA	DFC	04/2023		
				MANHOLE REPLACEMENT PLAN VIEW	N. B. KHATRI, R.C.E. #75428
					DRAWING NUMBER
					SS-13

PIPE TO BE ABANDONED



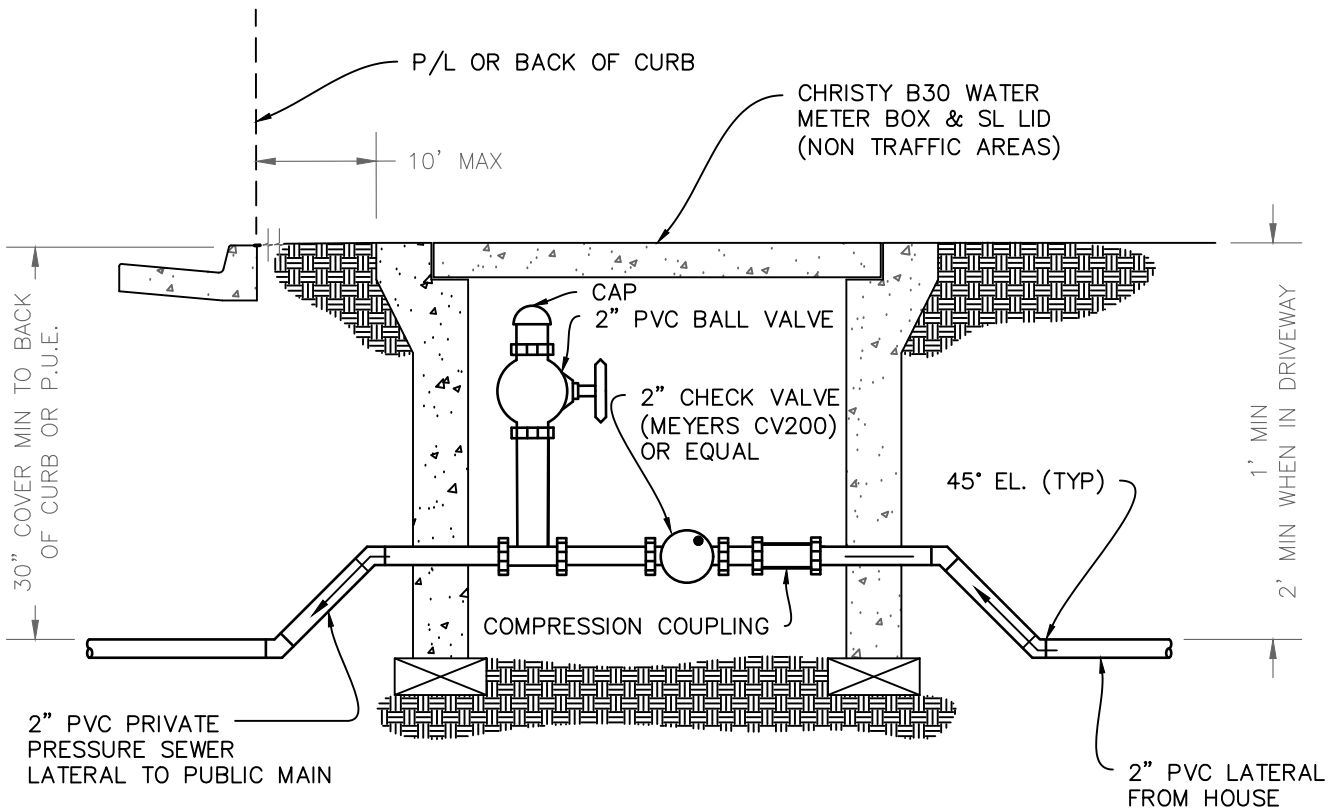
10" - 12" DIAMETER PIPE AND SMALLER

NOTES:

1. PIPE PLUGS SHALL BE INSTALLED TO THE SATISFACTION OF THE DIRECTOR OF PUBLIC WORKS.
2. ABANDONED PIPES, 12" AND LARGER, SHALL BE BROKEN INTO EVERY 50' AND SHALL BE FILLED COMPLETELY WITH SAND SLURRY.
3. SHALL BE INSPECTED BY THE ENGINEERING DEPARTMENT BEFORE COVERING.



REVISION	BY	APPROVED	DATE	CITY OF ARCATA	APPROVED BY:
UPDATE	MA	DFC	04/2023		
				ABANDONED PIPE/LATERAL "PLUG" DETAIL	 N. B. KHATRI, R.C.E. #75428
					DRAWING NUMBER
					SS-14



TYPICAL PRIVATE PRESSURE SEWER LATERAL
SERVICE CONNECTION TO PUBLIC MAIN

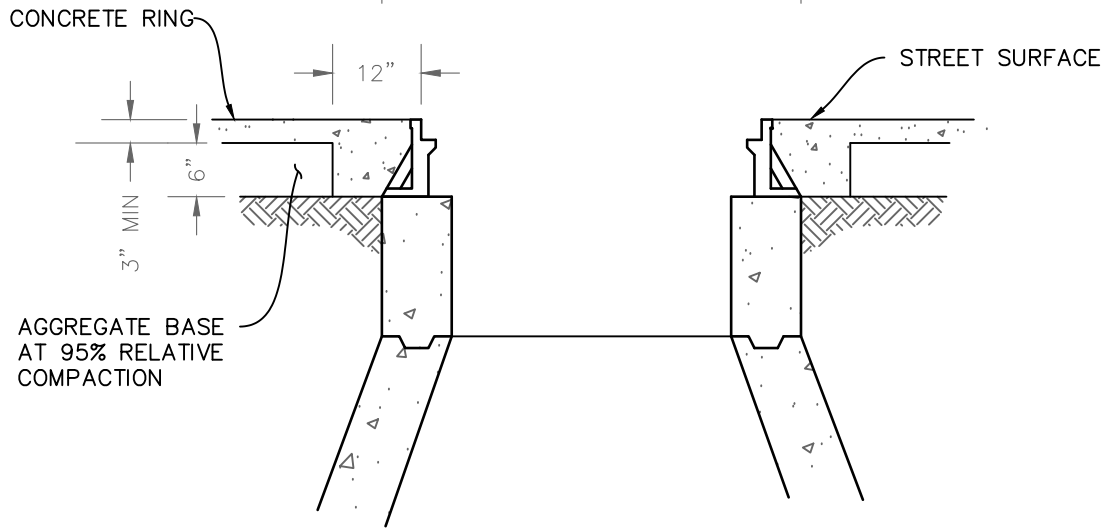
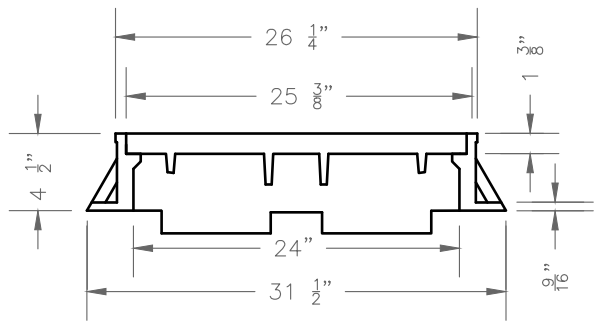
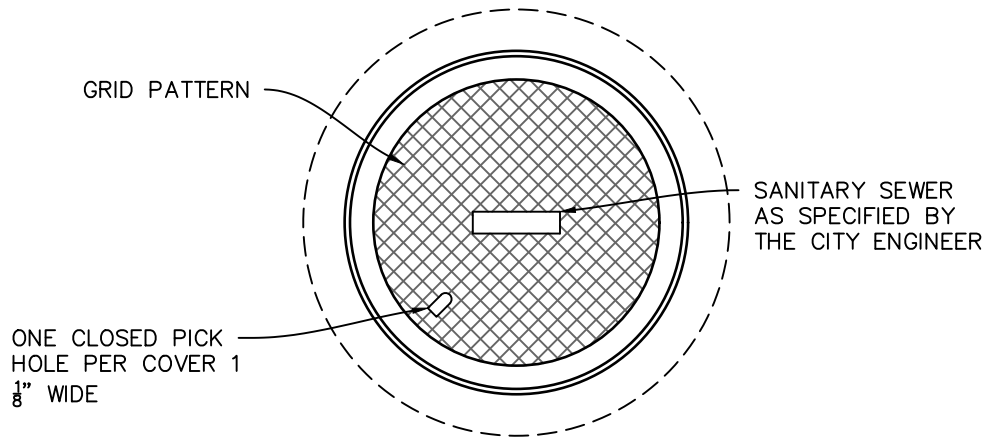
N.T.S.

NOTES:

1. THIS DETAIL SHALL BE USED FOR ALL PRIVATE RESIDENTIAL LIFT STATION DISCHARGES TO PUBLIC FORCE MAIN.
2. INDIVIDUAL PRESSURE SEWER LATERALS ARE CONSIDERED PRIVATELY OWNED & MAINTAINED FROM PUBLIC MAIN TO HOUSE.
3. SHALL MEET UPC REQUIREMENTS
4. DOUBLE STACK BOXES TO LIMIT BENDS IN PIPE LINE



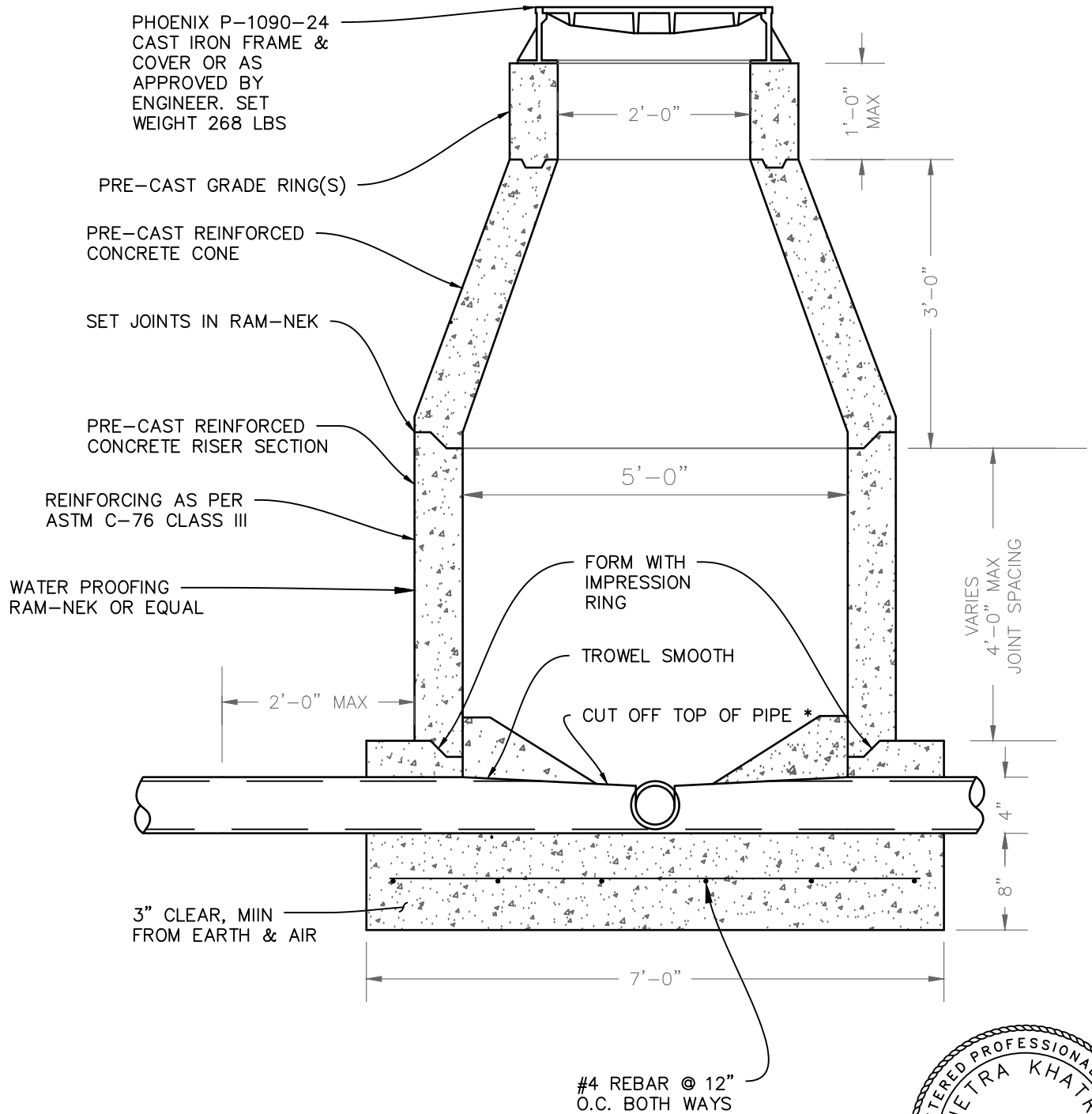
REVISION	BY	APPROVED	DATE	CITY OF ARCATA PRESS. SEWER LATERAL SERVICE CONNECTION	APPROVED BY:
UPDATE	MA	DFC	04/2023		
					N. B. KHATRI, R.C.E. #75428
					DRAWING NUMBER
					SS-17



- NOTES:
1. SPECIFY "SANITARY SEWER" WHEN ORDERING. ALL CASTINGS ASPHALT PAINT.
 2. ALL MATERIAL USED IN MANUFACTURING SHALL CONFORM TO A.S.T.M. DESIGNATION A-159-G 3000, OR OF UNITED STATES GOVERNMENT SPECIFICATIONS QQI-652b.
 3. MINIMUM WEIGHT COMPONENTS: COVER - 130 POUNDS FRAME - 135 POUNDS
 4. MANHOLES IN NON-PAVED AREAS SHALL HAVE "DUST" COVERS



REVISION	BY	APPROVED	DATE	CITY OF ARCATA	APPROVED BY:
UPDATE	MA	DFC	04/2023		
				MANHOLE COVER AND FRAME	 N. B. KHATRI, R.C.E. #75428
					DRAWING NUMBER
					SS-20



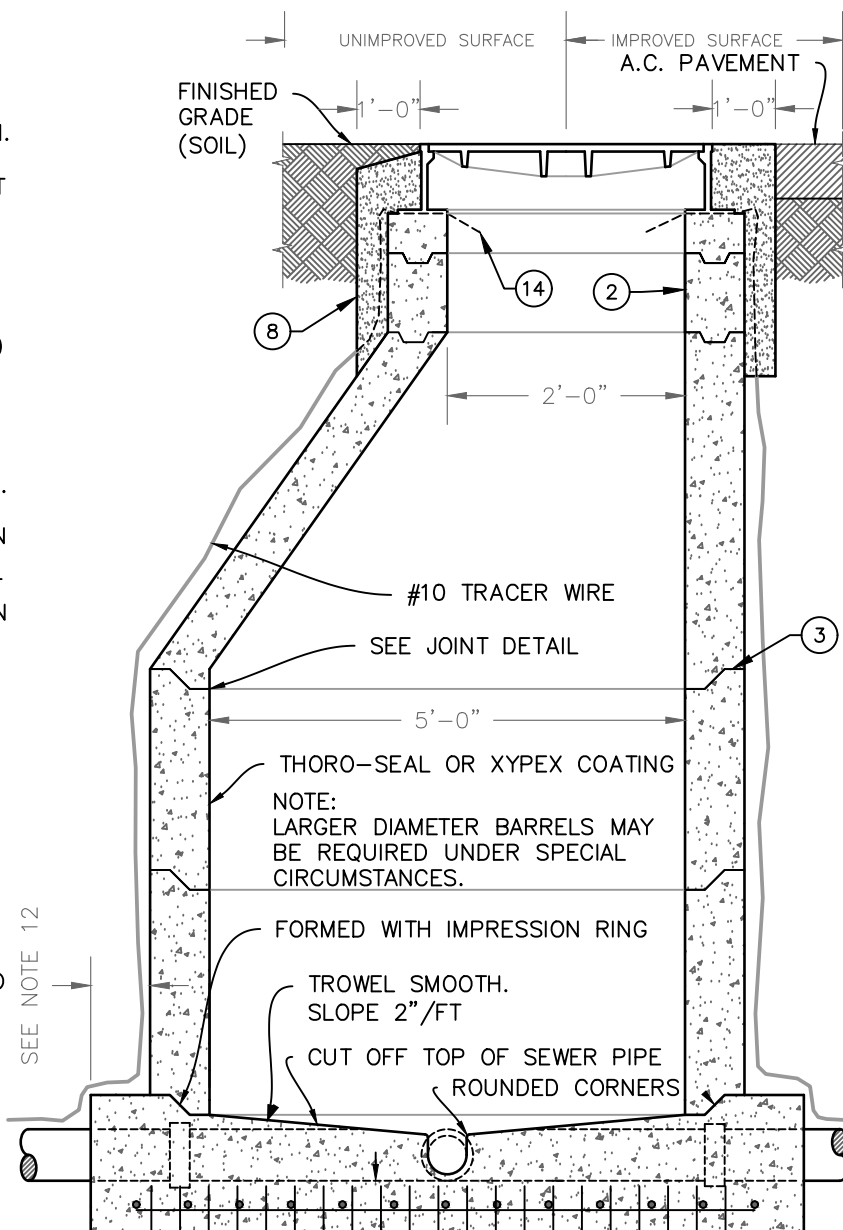
NOTES:

INSTALL PIPE THROUGH MANHOLE. AFTER BASE CURES, CUT OFF TOP OF PIPE AND TROWEL SMOOTH.



REVISION	BY	APPROVED	DATE	CITY OF ARCATA	APPROVED BY:
UPDATE	MA	DFC	04/2023		
				TYPICAL MANHOLE	 N. B. KHATRI, R.C.E. #75428
					DRAWING NUMBER SS-21

1. WHEN MANHOLES ARE INSTALLED IN UNIMPROVED AREAS, THE TOP OF THE COVER SHALL BE A MIN. OF 1 FT. ABOVE ADJACENT FINISHED GRADE.
2. MIN. OF ONE 3" AND ONE 6" GRADE ADJUSTMENT RINGS. MAX. HEIGHT OF GRADE ADJUSTMENT RINGS = 20" ALTERNATELY. CONTRACTOR MAY CAST GRADE ADJUSTMENT RINGS IN PLACE.
3. SET ALL BARREL SECTIONS & TAPERED SECTIONS IN PLASTIC GASKET, RAM-NEK OR APPROVED ALTERNATE. TYP. JOINT 1-1/2" (3/4" x 2-1/2") RAM-NEK SEAL (2 SEALS IN HIGH WATER TABLE AREAS).
4. CONE SECTION (TAPER) MUST BE CONCENTRIC FOR 48" MANHOLES UNLESS OTHERWISE SPECIFIED AND APPROVED BY THE CITY ENGINEER.
5. CONSTRUCT ALL FLOW CHANNELS OF PIPE WHEREVER POSSIBLE. AFTER LOWER RING SECTION IS SET, BREAK OUT TOP HALF OF PIPE FLUSH WITH INSIDE FACE OF M.H. WALL AND CONSTRUCT SHELF AND U-SHAPED CHANNEL. MAKE ELEVATION CHANGES GRADUALLY AND DIRECTIONAL CHANGES WITH SMOOTH CURVES.
6. POUR-IN-PLACE BASE SHALL BE POURED FULL THICKNESS TO UNDISTURBED SIDES OF EXCAVATION OR SHALL BE FORMED. JOINT BETWEEN BASE AND BARREL TO BE SEALED WITH 1-1/2" (3/4" x 2-1/2") RAM-NEK SEAL (2 SEALS IN HIGH WATER TABLE AREAS) OR PLASTER 6" FILLET. 1:3 MORTAR. PRECAST BASE TO BE FROM A CITY ENGINEER APPROVED LIST AND PLACED ON 12" THICK 3/4" DRAIN ROCK SUB-BASE INSTALLED AGAINST UNDISTURBED EARTH.
7. JOINT BETWEEN BASE AND BARREL TO BE SEALED WITH 1-1/2" (3/4" x 2-1/2") RAM-NEK SEAL (2 SEALS IN HIGH WATER TABLE AREAS).
8. CLASS "B" CONCRETE COLLAR SHALL BE FLUSH WITH FINISHED GRADE.
9. STANDARD MANHOLE BARREL SECTION PER ASTM C478
10. BARREL AND TAPER SECTIONS MAY BE CAST IN PLACE AS APPROVED AND DIRECTED BY THE CITY ENGINEER.
11. 48" I.D. MANHOLE TO BE USED FOR SEWER MAINS LESS THAN 18" Ø & LESS THAN 8 FT. DEEP FROM FINISHED GRADE.
12. 6" MIN. IF POURED IN PLACE.
13. A FLEXIBLE COUPLING, AS APPROVED BY THE CITY ENGINEER SHALL BE INSTALLED IN THE SEWER MAIN WITHIN 12" OF THE BASE OF THE MANHOLE (TYP. NOT SHOWN) NOT REQUIRED WHEN PRECAST BASES ARE MANUFACTURED WITH FLEX. COUPLINGS ALREADY INSTALLED.
14. #10 TRACER WIRE BETWEEN GRADE RING AND MANHOLE COVER FRAME PROTRUDING 6" INTO MANHOLE.

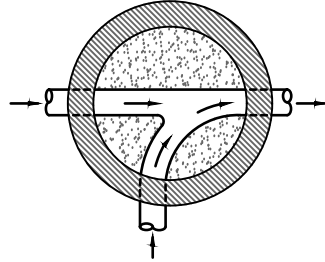


MANHOLE DETAIL

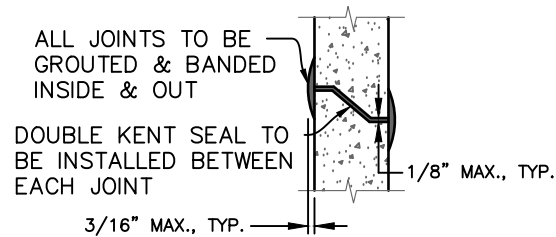
8" MIN WITH #4 REBAR @ 12" BOTH
WAYS. 12" MIN IF NOT REINFORCED



REVISION	BY	APPROVED	DATE	CITY OF ARCATA	APPROVED BY: 
UPDATE	MA	DFC	04/2023		



MANHOLE BASE
CHANNELIZATION PLAN



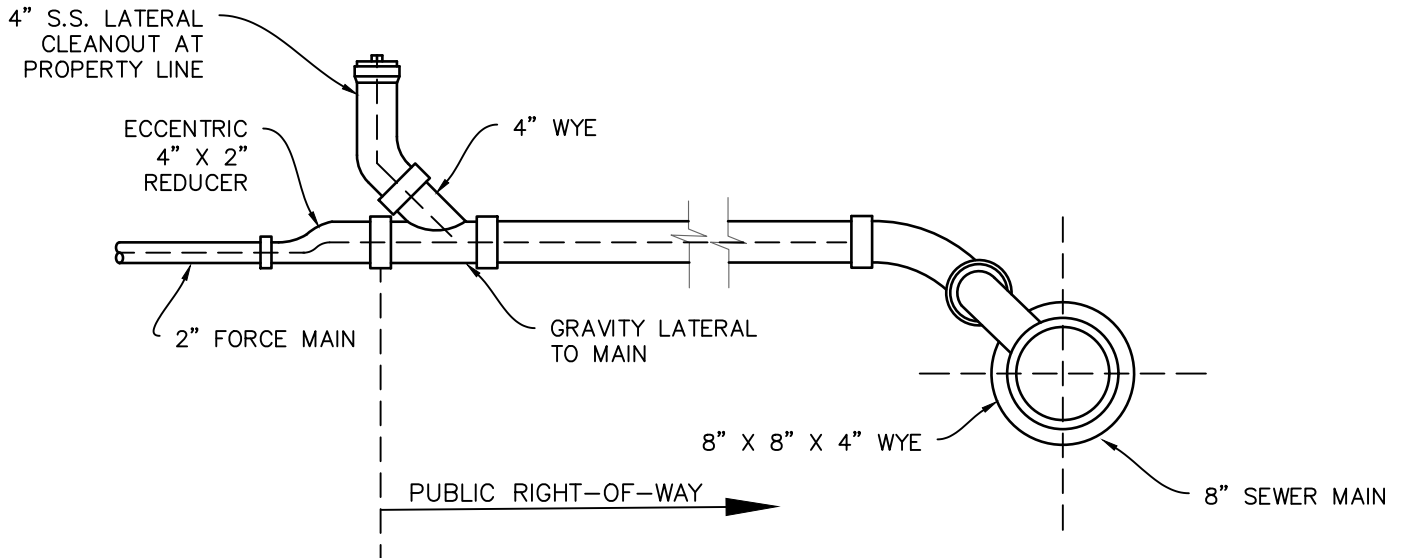
JOINT DETAIL

NOTES:

CONSTRUCT ALL FLOW CHANNELS OF PIPE WHEREVER POSSIBLE. AFTER LOWER RING SECTION IS SET, BREAK OUT TOP HALF OF PIPE FLUSH WITH INSIDE FACE OF M.H. WALL AND CONSTRUCT SHELF AND U-SHAPED CHANNEL. MAKE ELEVATION CHANGES GRADUALLY AND DIRECTIONAL CHANGES WITH SMOOTH CURVES.



REVISION	BY	APPROVED	DATE	CITY OF ARCATA	APPROVED BY:
UPDATE	MA	DFC	04/2023		
				MANHOLE BASE CHANNELIZATION PLAN AND JOINT DETAIL	 N. B. KHATRI, R.C.E. #75428
					DRAWING NUMBER
					SS-23A

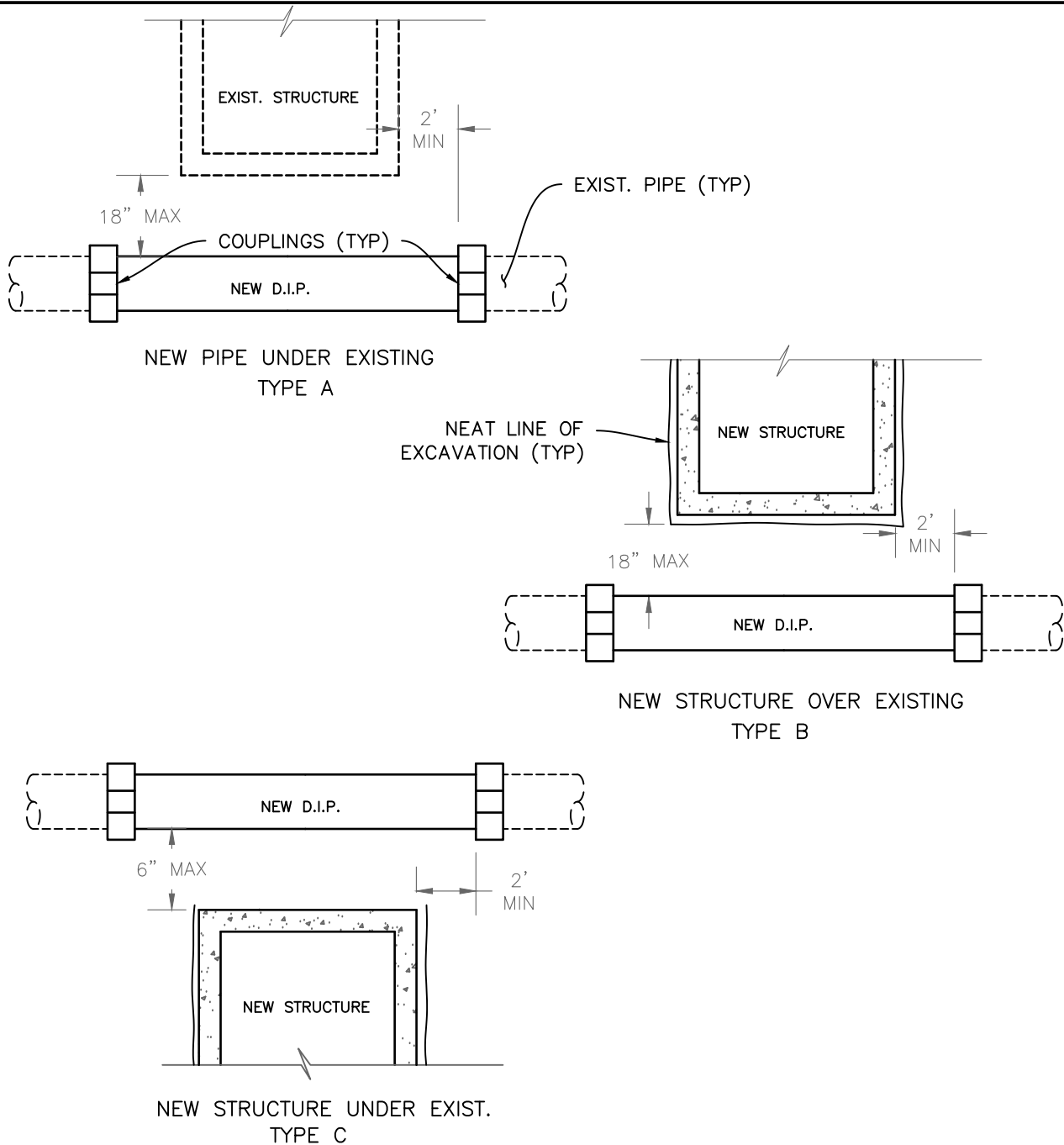


NOTES:

1. MUST BE USED FOR ALL PRIVATE SEWAGE LIFT STATION DISCHARGES. NO DISCHARGES MAY BE MADE DIRECTLY TO THE COLLECTOR SEWER, TRUNK SEWER, OR MANHOLE.
2. ANY ALTERNATE DESIGN MUST BE APPROVED BY THE CITY ENGINEER.



REVISION	BY	APPROVED	DATE	CITY OF ARCATA DISCHARGE FOR PRIVATE FORCE MAIN (PRESSURE TO GRAVITY)	APPROVED BY:  N. B. KHATRI, R.C.E. #75428
UPDATE	MA	DFC	04/2023		
					DRAWING NUMBER
					SS-31

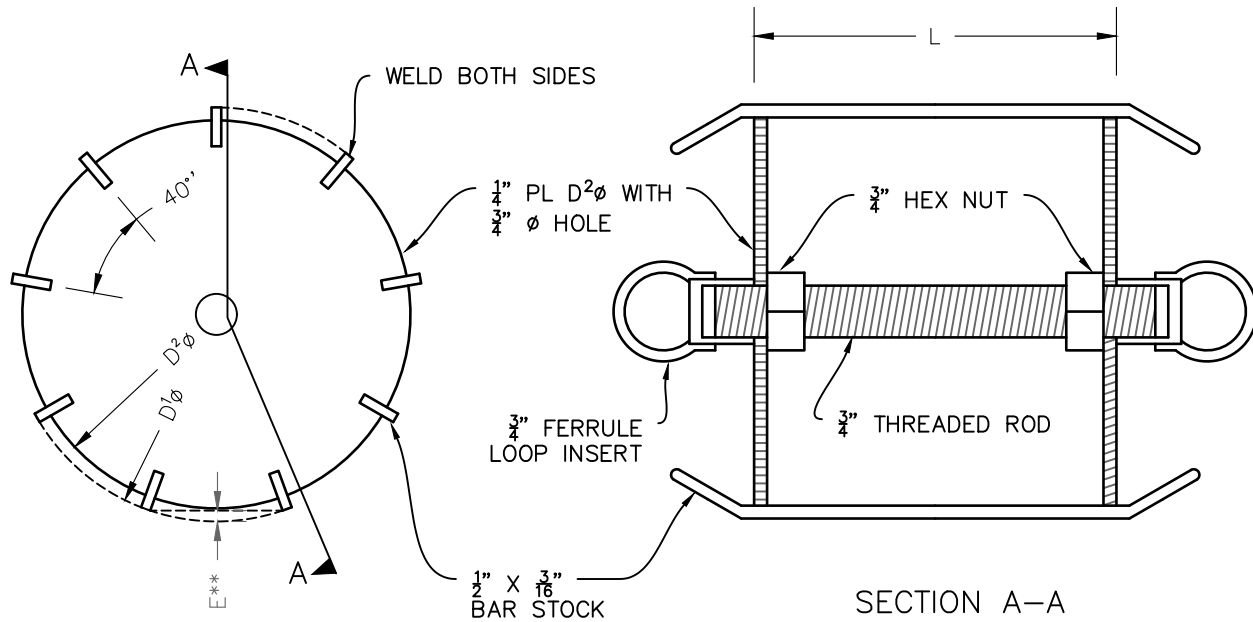


NOTES:

1. THIS STANDARD APPLIES TO PIPES UP TO AND INCLUDING 16" DIAMETER. ALL CROSSINGS INVOLVING PIPES OF LARGER DIAMETER SHALL BE AS APPROVED BY THE CITY ENGINEER.
2. WHEN PIPES CROSS WITHIN THE DIMENSIONS SHOWN, A NEW DUCTILE IRON PIPE SECTION SHALL BE INSTALLED AS DETAILED.
3. ALL DUCTILE IRON PIPE SHALL BE ENCASED IN POLYETHYLENE FILM IN TUBE FORM.
4. SEE ENGINEER'S APPROVED LIST FOR APPROVED COUPLINGS.



REVISION	BY	APPROVED	DATE	CITY OF ARCATA	APPROVED BY:
UPDATE	MA	DFC	04/2023		
				PIPE-STRUCTURE CROSSING DETAIL	 N. B. KHATRI, R.C.E. #75428
					DRAWING NUMBER
					SS-32



		4% DEFLECTION				5% DEFLECTION			
		ASTM D 2680				ABS ASTM D 2751 PVC ASTM D 3034			
		COMPOSITE *				SDR 35			
NOM. DIA.	L			D ¹ **	D ² ***	D ¹ **	D ² ***	D ¹ **	D ² ***
6	6"			5.544	4.544	5.629	4.629	5.492	4.492
8	8"			7.473	6.473	7.537	6.537	7.402	6.402
10	10"			9.401	8.401	9.421	8.421	9.312	8.312
12	12"			11.330	10.330	11.210	10.210	11.223	10.223
15	15"			14.222	13.222	13.729	12.729	14.088	13.088

** 1. MANDREL DIA. HAS BEEN CALCULATED TO CORRECT CHORD LENGTH ERROR "E"

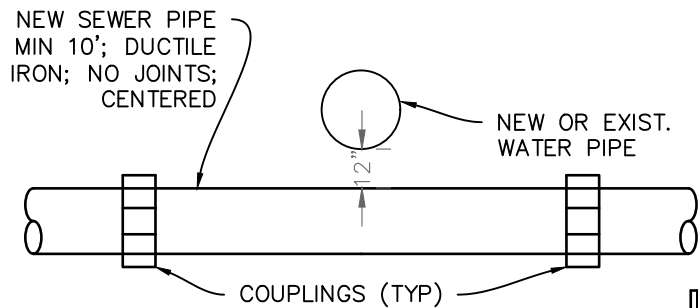
** 2. MIN. PLATE DIAMETER

NOTES:

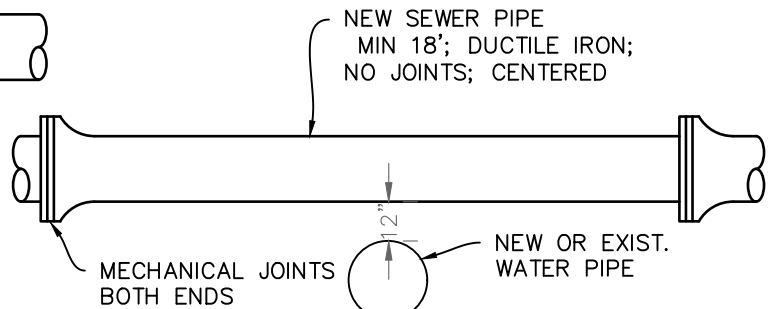
1. MARK ALL MANDRELS WITH ASTM SPECIFICATION NUMBERS SDR NUMBER AND DEFLECTION.
2. THE 1/2" BAR STOCK ON EDGE PROVIDES CLEARANCE TO PASS SMALL AMOUNTS OF SOIL WHICH MAY BE IN PIPE.
3. ALL SEWER MAINS SHALL BE BALLED AND MANDRELED PRIOR TO CITY ACCEPTANCE—SEE SPECS.
4. A PROVING RING OF THE SPECIFIED DIAMTER (D1) SHALL BE SUPPLIED WITH EACH DEFLECTION MANDREL



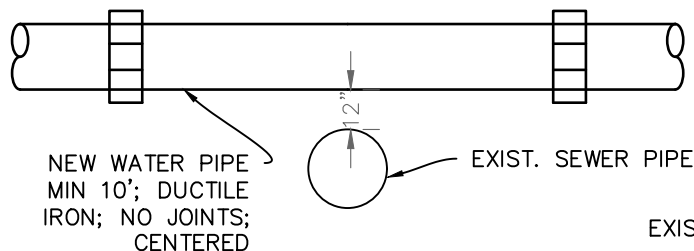
REVISION	BY	APPROVED	DATE	CITY OF ARCATA	APPROVED BY:
UPDATE	MA	DFC	04/2023		
				PLASTIC SEWER PIPE DEFLECTION MANDREL	 N. B. KHATRI, R.C.E. #75428
					DRAWING NUMBER
					SS-33



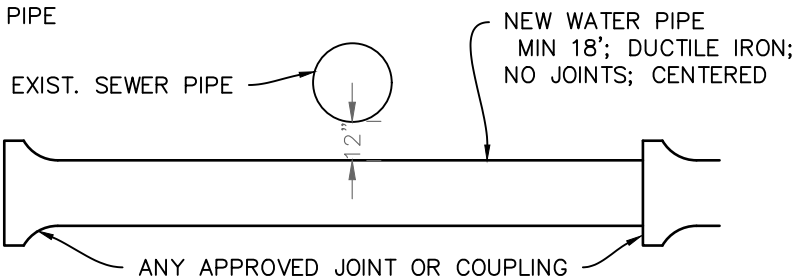
NEW SEWER UNDER NEW OR EXISTING WATER
CASE 1



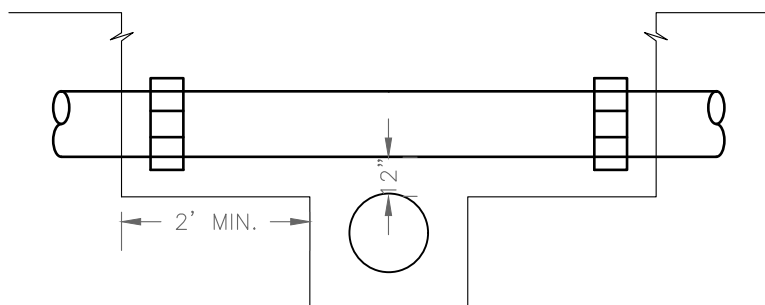
NEW SEWER UNDER NEW OR EXISTING WATER
CASE 2



NEW WATER OVER EXISTING SEWER
CASE 3



NEW WATER UNDER EXISTING SEWER
CASE 4



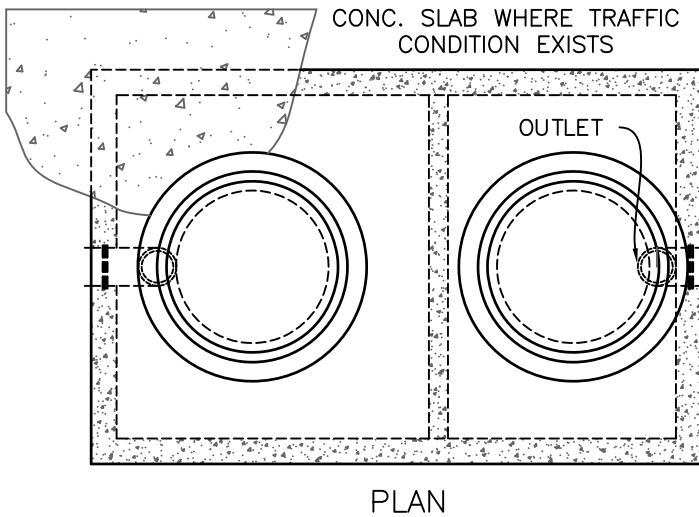
NEW PIPE UNDER EXISTING
CASE 5 — SEE NOTE 4

NOTES:

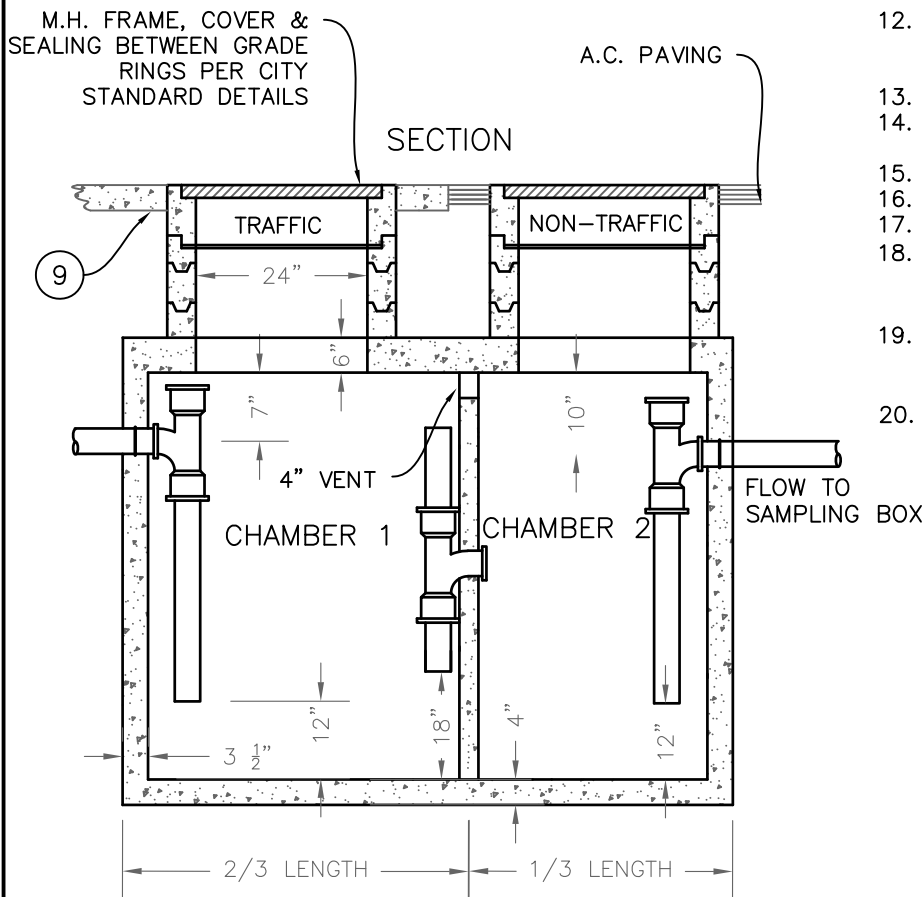
1. THIS STANDARD APPLIES TO PIPES UP TO AND INCLUDING 16" DIAMETER. ALL CROSSINGS OF LARGER DIAMETER SHALL BE AS APPROVED BY THE CITY ENGINEER.
2. ALL NEW DUCTILE IRON SHALL BE WRAPPED IN POLYETHYLENE PER CITY CONSTRUCTION SPECIFICATIONS.
3. WHERE SEWER CROSSES BELOW A WATER MAIN, WITH 12" OR MORE OF VERTICAL CLEARANCE INSTALLATION IS REQUIRED
4. NEW PIPE UNDER EXISTING—CASE 5 SHALL BE USED WHEN THE EXISTING PIPE HAS A JOINT OVER OR WITHIN 2' OF THE NEW TRENCH.
5. ANY PIPE—PIPE CROSSING WITH LESS THAN 12" VERTICAL CLEARANCE SHALL NOT BE INSTALLED WITHOUT APPROVAL OF THE CITY ENGINEER.
6. FOR WATER MAIN LOWERING DETAIL SEE CITY STD DTL "LOWERING THE WATER MAIN".
7. COUPLINGS SHALL BE APPROVED BY THE CITY ENGINEER.
8. FITTINGS TO BE FIELD VERIFIED BY CITY FORCES.



REVISION	BY	APPROVED	DATE	CITY OF ARCATA	APPROVED BY:
UPDATE	MA	DFC	04/2023		
				PIPE-PIPE CROSSING DETAIL	 N. B. KHATRI, R.C.E. #75428 DRAWING NUMBER SS-34



NOT TO SCALE

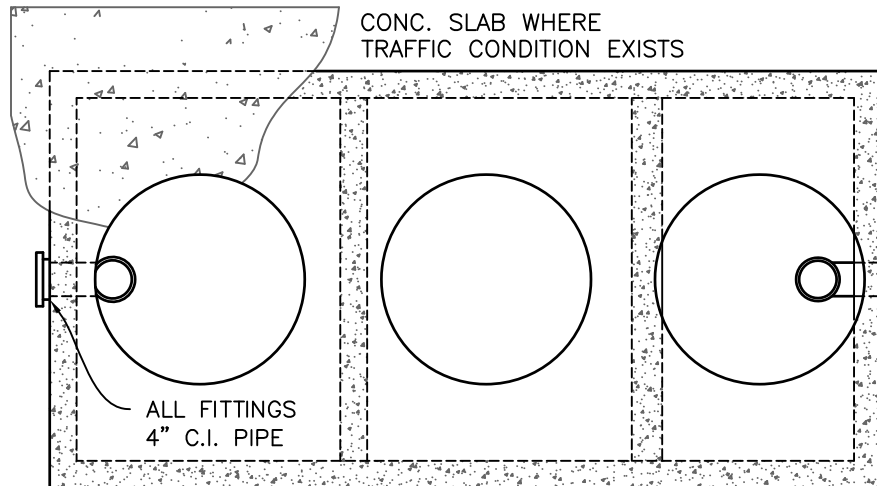


NOTES:

1. TANK TO BE PRECAST AS MANUFACTURED BY: HILFIKER PIPE COMPANY OR CITY ENGINEER APPROVED EQUAL.
2. 3" MIN. BEDDING MATERIAL PER CITY STD. SP 02
3. PIPE SHALL BE 6" MAX. Ø PER U.P.C.
4. CONCRETE MIN. COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS
5. GREASE INTERCEPTORS SHALL BE LOCATED OUTSIDE OF BUILDINGS IN A LOCATION ACCESSIBLE TO WASTE HAULER PUMPER
6. ALL GREASE INTERCEPTORS SHALL BE LOCATED OUTSIDE PUBLIC RIGHT-OF-WAY EXCEPT BY WRITTEN APPROVAL OF THE CITY ENGINEER
7. EXCAVATIONS SHALL BE NEAT LINE TYPICALLY ALL SIDES
8. INTERCEPTOR TO BE USED IN CONJUNCTION WITH "SAMPLING BOX" PER CITY STD DTL "INTERCEPTOR SAMPLING STATION"
9. 4" CONC. SLAB TO EXTEND MIN. 24" BEYOND ALL SIDES OF TANK (TRAFFIC AREA). ALL CONCRETE SHALL CONTAIN 3 LBS OF LAMP BLACK PER CUBIC YARD.
10. ALL WASTE MUST ENTER THROUGH INLET FITTING ONLY
11. STAINLESS STEEL PIPE CLAMPS & BOLTS 3' O.C. MAX
12. TANK CAPACITY TO BE DETERMINED AT THE TIME OF INDUSTRIAL WASTE PERMIT APPLICATION FROM THE DEPT. OF ENVIRONMENTAL SERVICES
13. PIPE & FITTINGS TO BE SCH. 40 PVC
14. ALTERNATE DESIGN BY A REGISTERED ENGINEER MAY BE SUBSTITUTED FOR REVIEW BY THE CITY
15. MEET UBC APPROX. H SIZING CRITERIA
16. MAINTENANCE SPECIFICATIONS
17. 90° ELBOW TO MINIMIZE INCOMING TURBULENCE
18. 24"Ø TRAFFIC RATED CAST IRON GAS TIGHT BOLT DOWN FRAME AND COVER (TYP) SET LID 0.01' ABOVE SURROUNDING FINISHED GRADE
19. KENT SEAL OR APPROVED EQUAL SHALL BE INSTALLED BETWEEN FRAME, GRADE RINGS, AND TOP OF INTERCEPTOR BOX (TYP)
20. ALL SURFACE WATER MUST DRAIN AWAY FROM MANHOLE. MANHOLE LID SHALL NOT HAVE ANY HOLE OTHER THAN PICK ACCESS

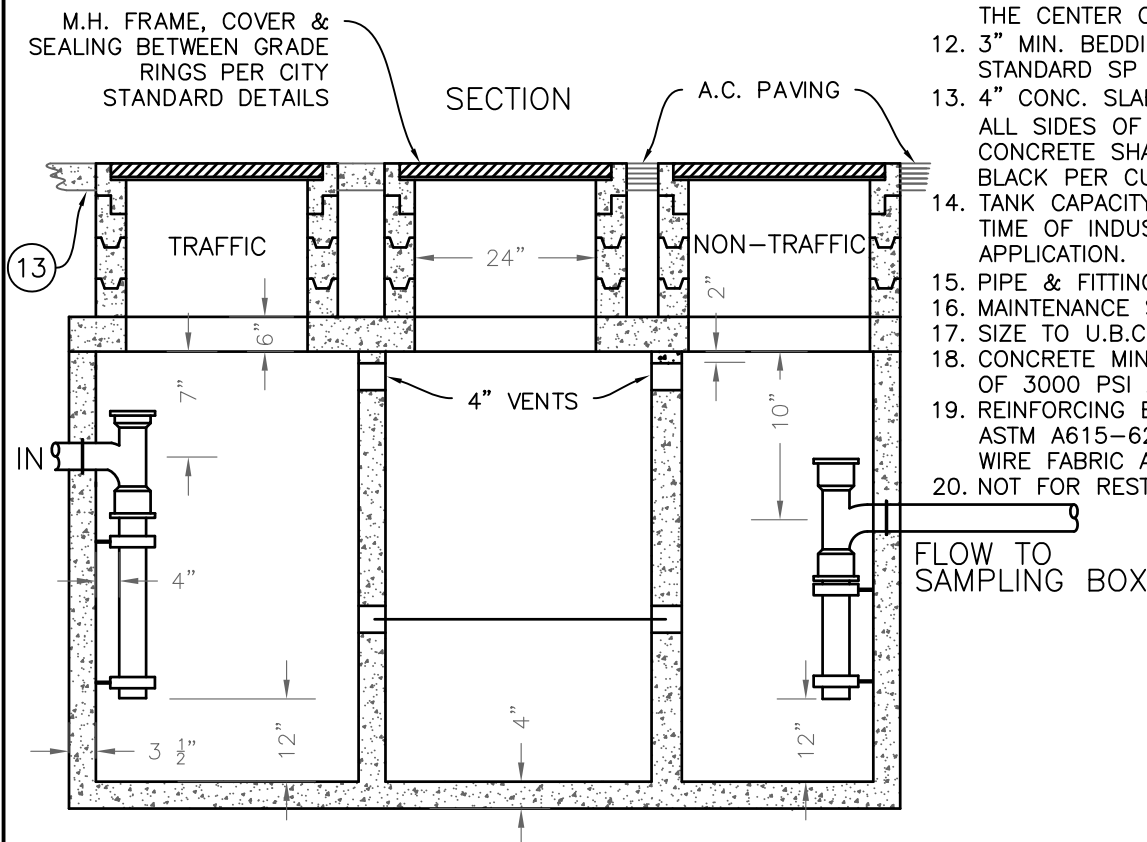


REVISION	BY	APPROVED	DATE	CITY OF ARCATA		APPROVED BY:	
UPDATE	MA	DFC	04/2023	PRECAST GREASE INTERCEPTER (2 CHAMBER)			
						N. B. KHATRI, R.C.E. #75428	
						DRAWING NUMBER	
						SS-44	



PLAN

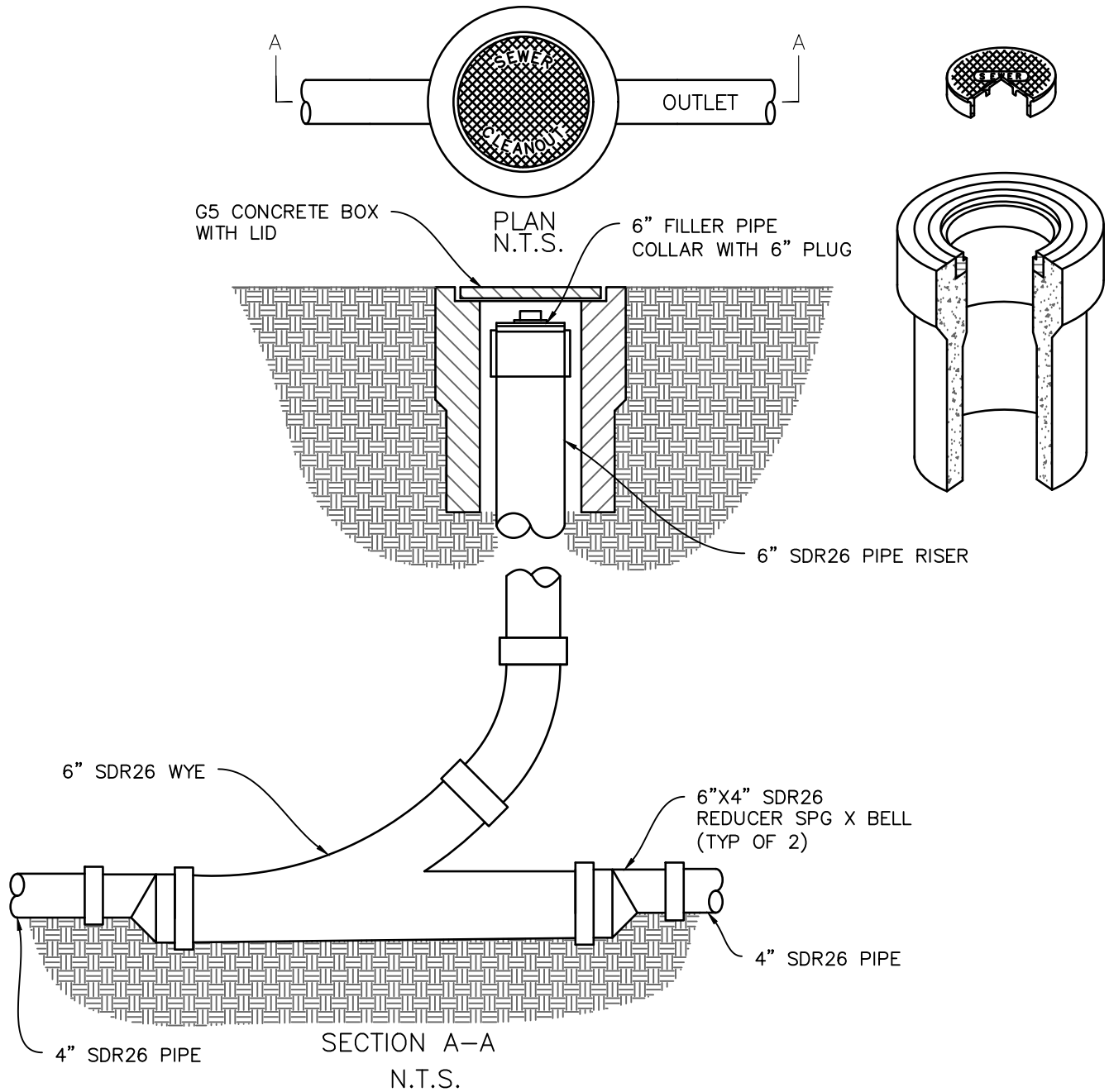
NOT TO SCALE



- NOTES:
1. TANK TO BE PRECAST AS MANUFACTURED BY: HILFIKER PIPE COMPANY OR CITY ENGINEER APPROVED EQUAL.
 2. ALL GREASE INTERCEPTORS SHALL BE LOCATED OUTSIDE PUBLIC RIGHT-OF-WAY EXCEPT BY APPROVAL OF THE CITY ENGINEER.
 3. GREASE INTERCEPTORS SHALL BE LOCATED OUTSIDE OF BUILDINGS IN A LOCATION ACCESSIBLE TO WASTEHAULER PUMPER. LOCATION SUBJECT TO THE APPROVAL OF THE CITY ENGINEER.
 4. ALTERNATE DESIGN BY A REGISTERED ENGINEER MAY BE SUBSTITUTED FOR REVIEW BY THE CITY.
 5. PIPE SHALL BE 6" MAX. Ø TYPE PER U.P.C.
 6. EXCAVATION SHALL BE NEAT LINE TYPICALLY ALL SIDES.
 7. HEIGHT OF TANK ABOVE FITTINGS VARIABLE. ONE FOOT SECTIONS MAY BE ADDED TO REQUIRED FINISH GRADE.
 8. ALL WYES SHALL BE ONE-WAY CLEANOUT WYES, EXCEPT AS NOTED. TYPE PER U.P.C.
 9. INTERCEPTOR TO BE USED IN CONJUNCTION WITH "SAMPLING BOX" PER CITY STANDARD SS 46
 10. STAINLESS STEEL PIPE CLAMPS & BOLTS 3' O.C. MAXIMUM.
 11. A WATERSTOP CONSISTING OF A STANDARD MANHOLE ADAPTER GASKET AS SUPPLIES BY THE PIPE MANUFACTURER SHALL BE GROUTED INTO THE INTERCEPTOR WALL NEAR THE CENTER OF THE WALL.
 12. 3" MIN. BEDDING MATERIAL PER CITY STANDARD SP 02
 13. 4" CONC. SLAB TO EXTEND MIN. 24" BEYOND ALL SIDES OF TANK. (TRAFFIC AREA). ALL CONCRETE SHALL CONTAIN 3 LBS OF LAMP BLACK PER CUBIC YARD.
 14. TANK CAPACITY TO BE DETERMINED AT THE TIME OF INDUSTRIAL WASTE PERMIT APPLICATION.
 15. PIPE & FITTINGS TO BE 4" SCH. 40 PVC
 16. MAINTENANCE SPECIFICATIONS
 17. SIZE TO U.B.C.
 18. CONCRETE MIN. COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.
 19. REINFORCING BAR INTERMEDIATE GRADE ASTM A615-62T & A305-56T REINFORCING WIRE FABRIC ASTM A185-61T
 20. NOT FOR RESTAURANT USE



REVISION	BY	APPROVED	DATE	CITY OF ARCATA	APPROVED BY:
UPDATE	MA	DFC	04/2023		
				SAND AND GREASE INTERCEPTOR (3 CHAMBER)	 N. B. KHATRI, R.C.E. #75428
					DRAWING NUMBER SS-45



NOTES:

1. LOCATION SUBJECT TO THE APPROVAL OF THE CITY ENGINEER.
2. AN ALTERNATIVE DESIGN BY A REGISTERED ENGINEER MAY BE SUBMITTED FOR REVIEW BY THE CITY.
3. SAMPLING M.H. TO BE LOCATED OUTSIDE OF PUBLIC RIGHT-OF-WAY EXCEPT WITH WRITTEN APPROVAL OF THE CITY ENGINEER.
4. ALL SURFACE WATER MUST DRAIN AWAY FROM MONITOR STATION.
5. MONITOR STATION MUST BE INSTALLED LEVEL.



REVISION	BY	APPROVED	DATE	CITY OF ARCATA INTERCEPTOR MONITOR STATION	APPROVED BY:
UPDATE	MA	DFC	04/2023		
					N. B. KHATRI, R.C.E. #75428
					DRAWING NUMBER SS-48

INSPECTORS NAME: _____

DATE: _____

ADDRESS/LOCATION: _____

MANHOLE NUMBER: _____

MANHOLE MATERIAL: CONCRETE BRICK OTHER: _____

LID TYPE: STANDARD VENTILATED LOCK DOWN OTHER: _____

CROSS OUT PIPES THAT DON'T EXIST

INLET PIPE SIZE _____ MATERIAL _____

INLET PIPE SIZE _____ MATERIAL _____

INLET PIPE SIZE _____ MATERIAL _____

OUTLET PIPE SIZE _____ MATERIAL _____

DRAW IN NORTH ARROW

MH DEPTH: _____ (RIM TO FLOWLINE)

MH DIAMETER: _____

RUNGS: YES NO

ANY SIGNS OF INFILTRATION: YES NO

ANY SIGNS OF SURCHARGE: YES NO

LID AND RING CONDITION: _____ AMOUNT OF FLOW: _____

DEBRIS DESCRIPTION: _____

OTHER COMMENTS/OBSERVATIONS: _____

MARK UP DRAWING TO HELP CLARIFY PROBLEMS
RECORD PHOTOGRAPH NAME FOR LATER ATTACHMENT



REVISION	BY	APPROVED	DATE
UPDATE	MA	DFC	04/2023

CITY OF ARCATA

MANHOLE INSPECTION
LOG

APPROVED BY:

N. B. KHATRI, R.C.E. #75428

DRAWING
NUMBER

SS-51

MANHOLE DATA FORM

DATE: _____

ADDRESS: _____

INSPECTOR: _____

MANHOLE NUMBER: _____

WEATHER: _____

INSPECTION TYPE: _____

#1 FLOW RATE: _____ TIME: _____

MH DEPTH: _____

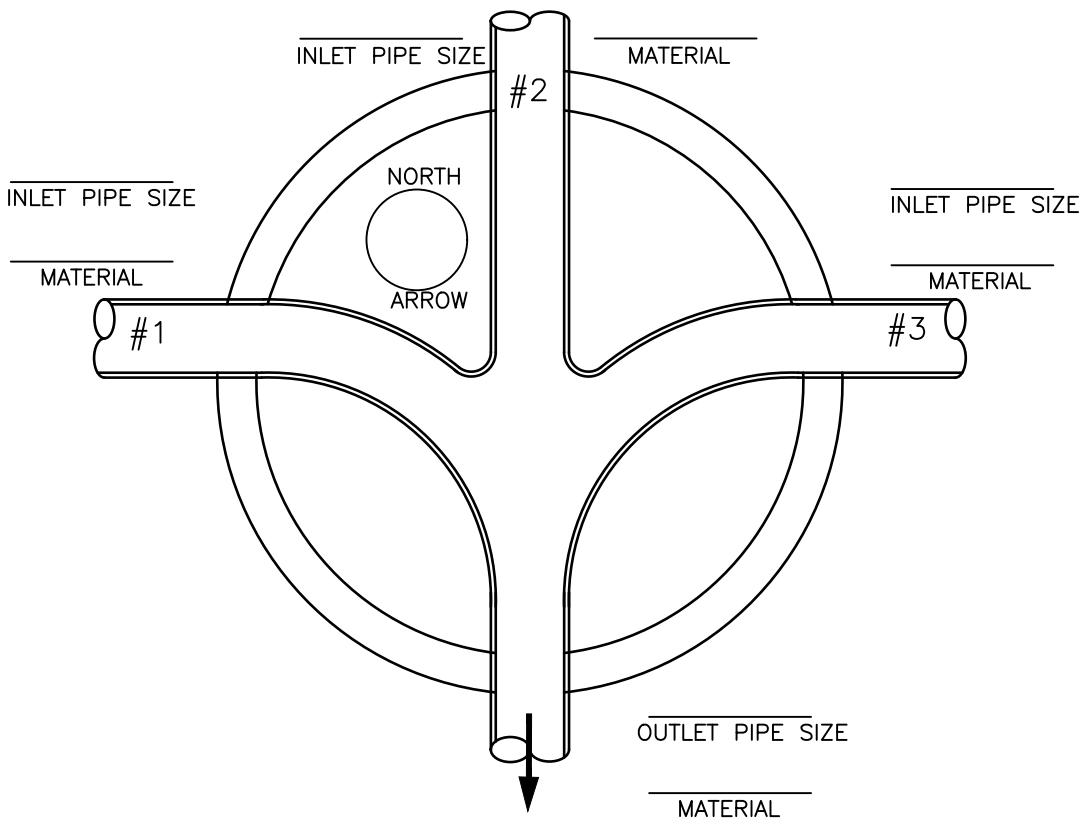
RIM TO FLOWLINE

#2 FLOW RATE: _____ TIME: _____

#3 FLOW RATE: _____ TIME: _____

MH DIAMETER

RUNGS: YES NO



BRIEF DESCRIPTION OF CONDITION: _____



REVISION	BY	APPROVED	DATE	CITY OF ARCATA MANHOLE DATA/INSPECTION SHEET	APPROVED BY: N. B. KHATRI, R.C.E. #75428
UPDATE	MA	DFC	10/2022		
					DRAWING NUMBER
					SS-52