Oil and Grease Interceptors (OGI)

City of Redding
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REQUIREMENT:

1. OIL AND GREASE INTERCEPTORS (ALSO REFERRED TO AS GRAVITY GREASE INTERCEPTORS, OR OGIs) ARE REQUIRED AT COMMERCIAL AND INDUSTRIAL FOOD AND BEVERAGE FACILITIES WHERE IT IS NECESSARY TO CAPTURE GREASE, OIL AND FOOD SOLIDS BEFORE WASTEWATER ENTERS THE CITY SANITARY SEWER SYSTEM.

2. THIS STANDARD APPLIES TO ALL NEW CONSTRUCTION, TENANT IMPROVEMENTS, REMODELS, AND EXISTING SYSTEMS WHICH ARE IN NEED OF AN UPGRADE. OGIs MUST BE INSTALLED OUTDOORS OR IN A LOCATION OUTSIDE OF THE FOOD PREPARATION AREA.

3. OGIs WILL BE SIZED FROM INFORMATION SUBMITTED ON THE FOOD FACILITY WASTEWATER DISCHARGE SURVEY/APPLICATION 2. SIZING CRITERIA WILL FOLLOW CALIFORNIA PLUMBING CODE CHAPTER 10. GRAVITY GREASE INTERCEPTORS SHALL HAVE A MINIMUM RETENTION TIME OF 30 MINUTES AND BE A MINIMUM SIZE OF 500 GALLONS.

SIZING CRITERIA:

DRAINAGE FIXTURE UNITS (DFUs)	OIL AND GREASE INTERCEPTOR (OGI OR GRAVITY GREASE INTERCEPTOR) IN GALLONS
≤8	500
21	750
35	1000
90	1250
172	1500
216	2000
307	2500
342	3000
428	4000
576	5000
720	7500

4. THE MINIMUM SIZE OGI ALLOWED BY THE CITY IS 500 GALLONS. FOR VERY LARGE FACILITIES, THE SIZE WILL BE ESTABLISHED ON A CASE BY CASE BASIS. FOR OGIs LARGER THAN 3,000 GALLONS, MULTIPLE OGIs SHALL BE INSTALLED IN SERIES TO FACILITATE COMPLETE PUMPING REQUIRED FOR MAINTENANCE (I.E., TWO 2,500 GALLON OGIs MUST BE USED FOR 5,000 GALLON CAPACITY).

DESIGN:

5. ALL NEW CONSTRUCTION AND UPGRADES SHALL BE CONSTRUCTED TO INCLUDE A SAMPLE MONITORING STATION.

6. ALL FOOD WASTES SHOULD BE SCREENED AND DISPOSED IN SOLID WASTE. GARBAGE GRINDERS ARE STRONGLY DISCOURAGED. IF A GARBAGE GRINDER IS INSTALLED, IT MUST BE PLUMBED TO THE GREASE INTERCEPTOR.

7. IF AN EXISTING OGI IS UNDERSIZED AND IS STRUCTURALLY SOUND AND INSTALLED PROPERLY, A BUSINESS OR OWNER MAY INSTALL AN ADDITIONAL OGI IN SERIES WITH THE EXISTING OGI TO SATISFY THE TOTAL CAPACITY REQUIREMENT.

8. SANITARY TEES MUST BE INSTALLED AT THE INLET AND OUTLET OF EACH INTERCEPTOR. THE SANITARY TEE SHALL BE INSTALLED SO THE TOP OPENING OF THE SANITARY TEE IS VISIBLE AND ACCESSIBLE FROM THE MANHOLE LIDS.

9. THE OGI SHALL BE INSTALLED AS SHALLOW AS POSSIBLE. THE BOTTOM OF THE OGI SHALL NOT BE GREATER THAN 15 FEET BELOW GRADE TO FACILITATE ROUTINE PUMPING OR EXCEED THE TANK MANUFACTURER'S DESIGN CRITERIA FOR MAXIMUM EARTH COVER (TOP OF TANK TO GRADE).

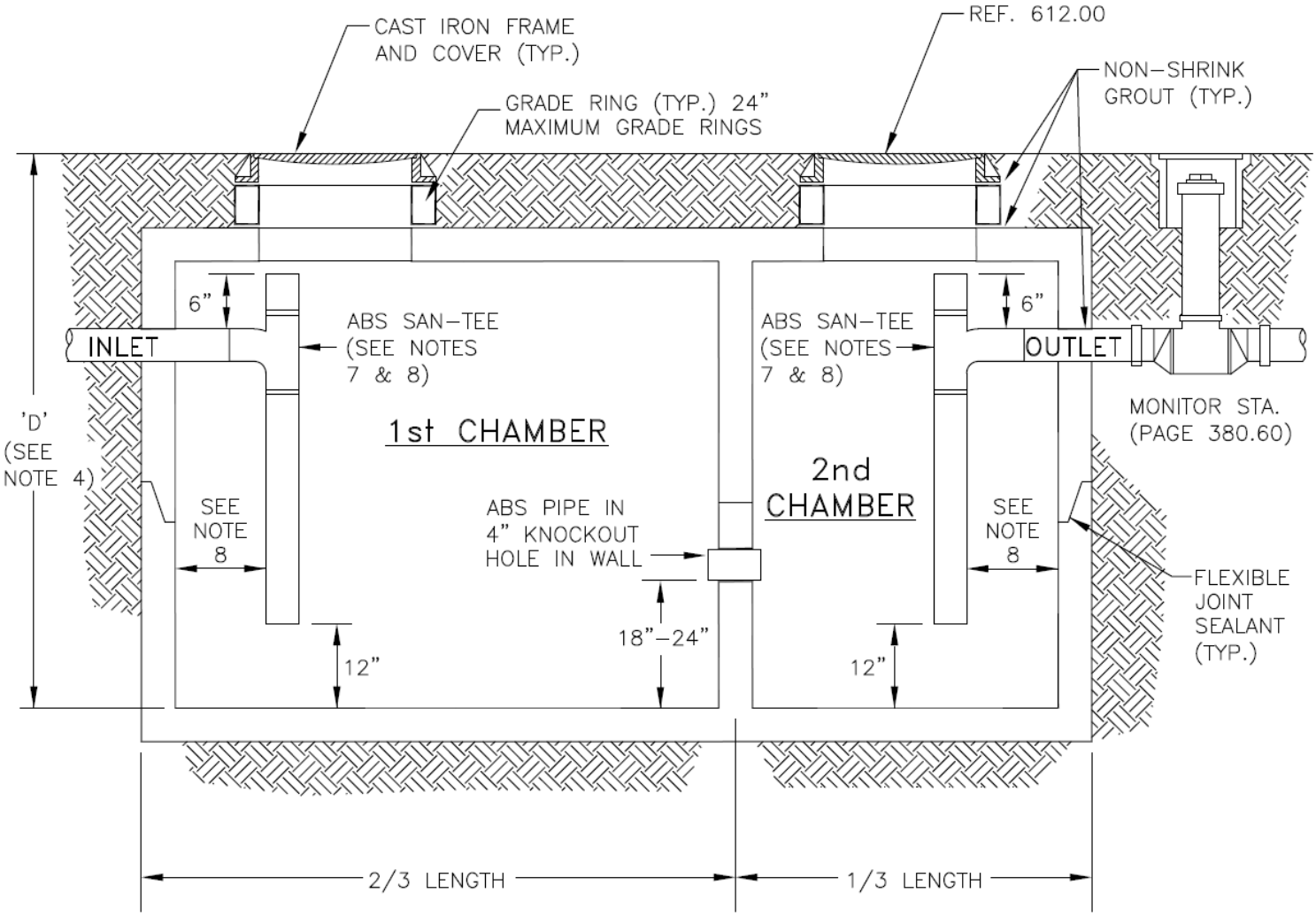
10. NO MORE THAN 24 INCHES OF GRADE RINGS SHALL BE USED IN AN INTERCEPTOR INSTALLATION. ALL FLEXIBLE JOINT SEALS OF RISERS AND COVER RINGS, AND ALL GROUT OF INTERNAL PLUMBING SHALL BE THE RESPONSIBLITY OF THE OWNER/OPERATOR AND/OR CONTRACTOR. AN ECCENTRIC CONCRETE CONE OR REDUCING TOP (36 INCH TO 24 INCH MANHOLE OR 48 INCH TO 24 INCH MANHOLE) SHALL BE USED IF THE TOP OF THE OGI IS GREATER THAN 24 INCHES BELOW FINISHED GRADE. (SEE CITY OF REDDING DESIGN SPECIFICATION PAGES 360.00, 360.10 AND 612.00.)

11. MANHOLE COVERS FOR OGIs SHALL NOT BE THE BOLT–DOWN TYPE.

12. ALL OGIs SHALL BE PROPERLY INSTALLED AND MAINTAINED. ALL INTERNAL PLUMBING OF PROPER DESIGN AND LENGTH SHALL BE IN PLACE AT ALL TIMES. OGIs ARE REQUIRED TO BE PUMPED WHEN 25% OF THE INTERNAL CPACITY IS OCCUPIED BY OILS, GREASE AND/OR SOLIDS. PUMPING IS TYPICALLY REQUIRED EVERY 3 MONTHS DEPENDING ON USE. INTERCEPTOR PUMPING IS THE RESPONSIBLITY OF THE BUSINESS OPERATOR UNLESS OTHER AGREEMENTS HAVE BEEN MADE BETWEEN THE BUSINESS OPERATOR AND PROPERTY OWNER OR PROPERTY MANAGER. AT NO TIME IS THE CITY OF REDDING RESPONSIBLE FOR MAINTENANCE OF A PRIVATE OIL AND GREASE INTERCEPTOR.

13. HYRDOMECHANICAL GREASE INTERCEPTORS (FORMERLY REFERRED TO AS GREASE TRAPS) OR OTHER PRE–MANUFACTURED DEVICES WILL ONLY BE ALLOWED WHERE SPACE OR OTHER DESIGN CONSTRAINTS PROHIBIT THE INSTALLATION OF A GRAVITY GREASE INTERCEPTOR. DESIGN SPECS MUST BE SUBMITTED WITH THE APPLICATION PAPERWORK OR THE PLUMBING PLANS.

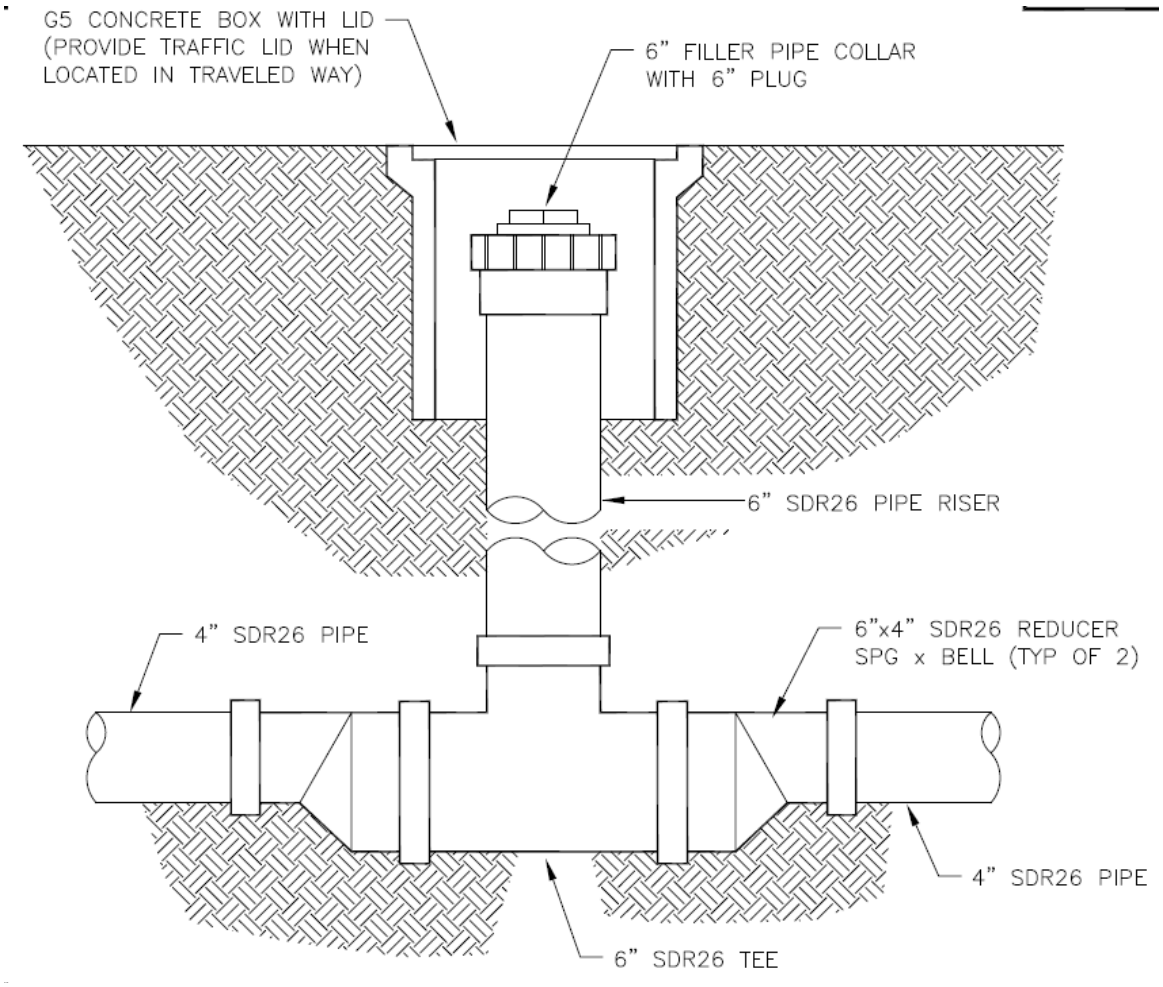
14. OGIs AND HYDROMECHANICAL GREASE INTERCEPTORS WILL BE INSPECTED BY THE CITY OF REDDING TO ENSURE PROPER INSTALLATION AND MAINTENANCE.



NOTES:

1. TANK SHALL HAVE A MINIMUM WALL THICKNESS OF 3".
2. SYSTEMS THAT MAY BE EXPOSED TO TRAFFIC AND/OR PARKING ON OR NEAR THE TANKS OR THE ACCESS COVERS SHALL BE DESIGNED TO AASHTO HS20-44 LOADING.
3. BACKFILL SHALL BE CLASS 'A' IN STREET R/W AND CLASS 'C' IN ALL OTHER LOCATIONS PER PAGE 610.00 AND PER TANK MANUFACTURER'S BEDDING RECOMMENDATIONS.
4. DISTANCE BETWEEN GRADE AND BOTTOM OF TANK 'D' SHALL NOT EXCEED 15 FEET OR EXCEED THE TANK MANUFACTURER'S CRITERIA FOR MAXIMUM EARTH COVER (TOP OF TANK TO GRADE).
5. ECCENTRIC MANHOLE CONE OR REDUCING TOP (36" TO 24" OR 48" TO 24") SHALL BE USED WHEN THE TOP OF TANK TO GRADE IS GREATER THAN 24" (SEE PAGES 360.00 AND 360.10).
6. IF ECCENTRIC CONES ARE INSTALLED, THE VERTICAL WALL SHALL BE OVER THE INLET AND OUTLET ENDS OF THE TANK.
7. INLET AND OUTLET PLUMBING SHALL BE SECURED WITH NON-SHRINK GROUT. SAN-TEES SHALL BE GLUED TO THE INLET AND OUTLET PLUMBING.
8. ABS SAN-TEES SHALL BE ALIGNED WITH EDGE OF ACCESS COVER TO ALLOW CLEANING.

DWG DATE: 6/92		SCALE: NTS	CITY OF REDDING • PUBLIC WORKS DEPARTMENT • ENGINEERING DIVISION	
4 3	7/13 2/03	REVISE NOTES NEW COM. STD	APPROVED BY 10/9/13	SAND & OIL AND OIL & GREASE INTERCEPTOR
MARK	DATE	REVISION	CITY ENGINEER	SOI AND OGI



PARTS LIST

6" SDR26 TEE	1 EA
6"x4" SDR26 REDUCER (SPG x BELL)	2 EA
6" FILLER PIPE COLLAR	1 EA
6" PLUG	1 EA
G5 CONCRETE BOX	1 EA
G5 SEWER LID (IF REQUIRED)	1 EA
4" ABS COUPLING	1 EA
4" ABS x SDR BUSHING	1 EA

NOTE:

1. MONITOR STATION MUST BE INSTALLED LEVEL.

DWG DATE: 7/92		SCALE: NTS	CITY OF REDDING • PUBLIC WORKS DEPARTMENT • ENGINEERING DIVISION	
5 4	7/13 4/06	UPDATE REV. PARTS	APPROVED BY 10/9/13	INTERCEPTOR MONITOR STATION
MARK	DATE	REVISION	CITY ENGINEER	