CITY OF SANTA BARBARA SANITARY SEWER STANDARD DETAILS. TO BE USED WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 2018 EDITION (STANDARD SPECIFICATION). ALL WORK WHICH REQUIRES PAVEMENT RESTORATION SHALL COMPLY WITH CITY STANDARD DETAILS - UNDERGROUND UTILITIES SECTIONS U-01.1 THROUGH U-03.2. REFER TO APPROVED STANDARD MATERIALS LIST FOR WATER/WASTEWATER FOR MATERIALS SPECIFIED IN THESE STANDARD DETAILS WITHOUT THE ALLOWANCE FOR "OR EQUAL".

## MANHOLE DETAILS

- S-MH1 48" STANDARD PRECAST MANHOLE
- S-MH2 60" STANDARD PRECAST MANHOLE
- S-MH3 24" DIAMETER PRE-CAST ACCESS STRUCTURE
- S-MH4 24" DIAMETER PVC/HDPE ACCESS STRUCTURE
- S-MH5 SEWER CLEANOUT
- S-MH6 MANHOLE COLLAR AND ADJUSTMENT
- S-MH7 MANHOLE FRAMES AND COVERS
- S-MH8 LOCKING MANHOLE FRAME AND COVER
- S-MH9 CONNECTION TO EXISTING MANHOLE
- S-MH10 CAST-IN-PLACE MANHOLE BASE
- S-MH11 MANHOLE ABANDONMENT
- S-MH12 ABANDONMENT OF SEWER PIPE
- S-MH13 OUTSIDE DROP INLET CONNECTION
- S-MH14 INSIDE DROP INLET CONNECTION
- S-MH15 MANHOLE COATING AND LINING SYSTEMS

## PIPELINE DETAILS

- S-SP 1 SEWER PIPE BEDDING, HAUNCH SUPPORT AND BACKFILL
- S-SP 2 CONCRETE CRADLE AND ENCASEMENT
- S-SP 3 STANDARD POINT REPAIR

## LATERAL DETAILS

- S-SL1 STANDARD LATERAL DETAIL AND NOTES
- S-SL2 LATERAL CONNECTION MATRIX
- S-SL3 TYPICAL VCP LATERAL CONNECTION
- S-SL4 NEW LATERALS TO PVC MAIN
- S-SL5 LATERAL CONNECTION TO HDPE MAIN
- S-SL6 LATERAL CONNECTION TO REHABILITATED MAIN
- S-SL7 CHIMNEY AND SLOPING LATERAL CONNECTION

## PRETREATMENT DETAILS

S-PT1 PRETREATMENT MONITORING FACILITY DETAIL AND NOTES

## MISCELLANEOUS SEWER DETAILS

MISC-FOG GREASE CONTROL DEVICE (GCD)



SANITARY SEWER STANDARD DETAILS TABLE OF CONTENTS





NOTES:

MANHOLE SHALL BE 48" IN DIAMETER IF SEWER MAIN DIAMETER IS SMALLER THAN OR EQUAL TO 15" OR RECEIVES DISCHARGE 1 DIRECTLY FROM A FORCE MAIN (TRANSITION MANHOLE).

MATERIALS:

- KEY JOINTS SHALL BE TONGUE AND GROOVE PER DETAIL, SET WITH ELASTOMERIC SEALANT. INSIDE OF JOINTS SHALL BE GROUTED 2. WITH NON-SHRINK GROUT.
- GAPS AND HOLES BETWEEN MANHOLE BASE AND PIPE CONNECTIONS SHALL BE FILLED WITH NON-SHRINK GROUT. 3.
- PRE-CAST BASE SHALL BE BEDDED ON A MINIMUM OF 6" OF WELL GRADED. 3 " ANGULAR CRUSHED ROCK OVER NATIVE MATERIAL THAT 4 IS EITHER UNDISTURBED OR COMPACTED PER GREENBOOK STANDARDS, WITH A RELATIVE COMPACTION ≥ 95%.

CONSTRUCTION:

- 5. RISERS, CONE, CENTER SECTIONS, AND BASE SHALL CONFORM TO ASTM C-478.
- CONE SHALL BE CONCENTRIC IF SEWER DEPTH IS LESS THAN 60". ECCENTRIC IF DEPTH IS GREATER THAN 60". 6.
- MANHOLE SECTIONS SHALL BE PRECAST CONCRETE AND SHALL HAVE 6" MINIMUM WALL THICKNESS WITH MINIMAL REINFORCEMENTS. 7. TYPICAL SECTIONS SHALL BE 12", 16", 24", 32", 36" OR 48" IN HEIGHT.
- MANHOLE BASE SHALL BE PRE-CAST CONSTRUCTED USING CLASS 560-C-3250 CONCRETE WITH EXTENDED BASE OR POLYMER 8 CONCRETE WITH SIMILAR PROPERTIES. ALL PIPE CONNECTIONS' SIZE, ANGLE, DEPTH AND QUANTITY SHALL BE FIELD VERIFIED AND MEASURED PRIOR TO ORDERING PRECAST BASE. ALL PIPE CONNECTIONS SHALL BE CORED TO FIT FLEXIBLE PIPE-TO-MANHOLE CONNECTORS (KOR-N-SEAL OR EQUAL) EITHER BY MANUFACTURER OR CONTRACTOR USING APPROVED EQUIPMENT.
- FOR PRE-CAST BASE WITHOUT CHANNEL, BENCH & CHANNEL SHALL BE COMPLETED IN A SINGLE POUR USING CLASS 560-C-3250 9 CONCRETE WITH STEEL TROWEL FINISH.
- 10. ANY CHANGE IN DIRECTION SHALL BE A FIXED RADIUS CURVE EXTENDING FROM THE INLET WALL TO THE OUTLET WALL.
- 11. INSIDE SURFACE OF INVERT AND AREA BETWEEN PIPE CONNECTION AND CHANNEL SHALL BE FREE FROM GAPS, HOLES AND SHARP EDGES.
- 12. ALL INLETS SHALL BE DESIGNED AND INSTALLED SUCH THAT THE TOP OF PIPE ELEVATIONS MATCH AS MUCH AS POSSIBLE.

REFERENCE:

- 13. COLLAR ADJUSTMENT TO GRADE SHALL BE PER DETAIL S-MH6.
- STANDARD MANHOLE FRAME AND COVER SHALL BE PER DETAIL S-MH7. 14

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48" STANDARD PRE-CAST
MANHOLE

REV. DATE: <b>06/2020</b>	DETAIL: S-MH1
APPROVED: Brie Da	m
CITY ENGINEER	
Rebecco Bjort	
PUBLIC WORKS DIRECTOR	



- MATERIALS:
- KEY JOINTS SHALL BE TONGUE AND GROOVE PER DETAIL, SET WITH ELASTOMERIC SEALANT. INSIDE OF JOINTS SHALL BE GROUTED 2 WITH NON-SHRINK GROUT.
- GAPS AND HOLES BETWEEN MANHOLE BASE AND PIPE CONNECTIONS SHALL BE FILLED WITH NON-SHRINK GROUT. 3.
- 4 PRE-CAST BASE SHALL BE BEDDED ON A MINIMUM OF 6" OF WELL GRADED,  $\frac{3}{4}$ " ANGULAR CRUSHED ROCK OVER NATIVE MATERIAL THAT IS EITHER UNDISTURBED OR COMPACTED PER GREENBOOK STANDARDS, WITH A RELATIVE COMPACTION ≥ 95%.

CONSTRUCTION:

- 5. RISERS, CONE, CENTER SECTIONS, AND BASE SHALL CONFORM TO ASTM C-478.
- 6. CONE SHALL BE CONCENTRIC IF DEPTH IS LESS THAN 60" (AS SHOWN ON S-MH1), ECCENTRIC IF DEPTH IS GREATER THAN 60".
- MANHOLE SECTIONS SHALL BE PRECAST CONCRETE AND SHALL HAVE 6" MINIMUM WALL THICKNESS WITH MINIMAL REINFORCEMENTS. 7. TYPICAL SECTIONS SHALL BE 12", 16", 24", 32", 36" OR 48" IN HEIGHT.
- MANHOLE BASE SHALL BE PRE-CAST CONSTRUCTED USING CLASS 560-C-3250 CONCRETE WITH EXTENDED BASE OR POLYMER 8. CONCRETE WITH SIMILAR PROPERTIES. ALL PIPE CONNECTIONS' SIZE, ANGLE, DEPTH AND QUANTITY SHALL BE FIELD VERIFIED AND MEASURED PRIOR TO ORDERING PRECAST BASE. ALL PIPE CONNECTIONS SHALL BE CORED TO FIT FLEXIBLE PIPE-TO-MANHOLE CONNECTORS (KOR-N-SEAL OR EQUAL) EITHER BY MANUFACTURER OR CONTRACTOR USING APPROVED EQUIPMENT.
- FOR PRE-CAST BASE WITHOUT CHANNEL, BENCH AND CHANNEL SHALL BE COMPLETED IN A SINGLE POUR USING CLASS 560-C-3250 9 CONCRETE WITH STEEL TROWEL FINISH.
- 10. ANY CHANGE IN DIRECTION SHALL BE A FIXED RADIUS CURVE EXTENDING FROM THE INLET WALL TO THE OUTLET WALL.
- 11. INSIDE SURFACE OF INVERT AND AREA BETWEEN PIPE CONNECTION AND CHANNEL SHALL BE FREE FROM GAPS, HOLES AND SHARP EDGES.

12. ALL INLETS SHALL BE DESIGNED AND INSTALLED SUCH THAT THE TOP OF PIPE ELEVATIONS MATCH AS MUCH AS POSSIBLE. REFERENCE:

- 13. COLLAR ADJUSTMENT TO GRADE PER DETAIL S-MH6.
- STANDARD MANHOLE FRAME AND COVER SHALL BE PER DETAIL S-MH7. 14.



60" STANDARD PRE-CAST MANHOLE

REV. DATE:06/2020	DETAIL: S-MH2
APPROVED:	
Brie Dam	u
CITY ENGINEER	
Rebecco Bjort	
PUBLIC WORKS DIRECTOR	









## NOTES:

1. GRADE RINGS SHALL NOT EXCEED A TOTAL MAXIMUM HEIGHT OF 12" FOR STANDARD MANHOLE INSTALLATIONS.

#### MATERIALS:

- 2. ALL CONCRETE SHALL BE 560-C-3250.
- 3. ALL MORTAR SHALL BE CLASS "D" PER SECTION 201.5.1 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- 4. SPACER BLOCKS SHALL MATCH MANHOLE'S CONSTRUCTION MATERIALS.
- 5. A THERMOPLASTIC MANHOLE RISER FORM MAY BE USED IN LIEU OF SPACER BLOCKS AND GRADE RINGS.

#### CONSTRUCTION:

- 6. PRIOR TO ANY WORK ON EXISTING SEWER MANHOLES, THE CONTRACTOR SHALL PLACE A TEMPORARY FALSE BOTTOM INSIDE OF THE MANHOLE. IF ONE CANNOT BE INSTALLED, THE CONTRACTOR SHALL NOTIFY THE CITY PRIOR TO COMMENCING WORK.
- WHEN SPECIFIED, RUNGS SHALL BE REMOVED TO A DEPTH OF 2" BEYOND THE INSIDE FACE OF THE MANHOLE. EXISTING VOIDS LEFT BY THE REMOVAL OF THESE RUNGS SHALL BE FILLED WITH MORTAR OR A PATCHING CEMENT SUCH AS "WATER PLUG", OR EQUAL APPROVED BY THE ENGINEER.
- 8. FRAME SHALL BE INSTALLED LEVEL OR MATCH SURROUNDING GRADE AND BE SUPPORTED DURING CONCRETE CURING PROCESS.
- 9. TO RAISE AN EXISTING FRAME AND COVER ON A PRE-CAST CONCRETE SEWER MANHOLE, USE CONCRETE GRADE RINGS, COMPOSITE GRADE RINGS (PRO-RING BY CRETEX OR APPROVED EQUAL), OR A THERMOPLASTIC MANHOLE RISER FORM (MANUFACTURED BY WHIRLYGIG OR APPROVED EQUAL).
- 10. TO LOWER AN EXISTING FRAME AND COVER ON A PRE-CAST CONCRETE SEWER MANHOLE, REMOVE GRADE RINGS AND/OR RISER SHAFT UNITS. REPLACE THE EXISTING CONE WITH A PRECAST CONCRETE ECCENTRIC CONE UNIT IF THE EXISTING CONE IS EITHER CONCENTRIC, DETERIORATED, OR AS DIRECTED BY THE ENGINEER.
- 11. TO RAISE AN EXISTING FRAME AND COVER ON AN EXISTING BRICK SEWER MANHOLE, SEE NOTE 4 OR INSTALL A NEW MANHOLE AS DIRECTED BY THE ENGINEER.
- 12. LOWERING EXISTING BRICK SEWER MANHOLES: TO LOWER AN EXISTING FRAME AND COVER ON A BRICK SEWER MANHOLE, RESET THE FRAME AND COVER ON EXISTING BRICKS WITH MORTAR, REMOVE A SUFFICIENT AMOUNT OF BRICKS TO INSTALL A PRE-CAST CONCRETE ECCENTRIC CONE UNIT, OR INSTALL A NEW SEWER MANHOLE AS DIRECTED BY THE ENGINEER. DIAMETER OF CONE APERTURE SHALL MATCH THE DIAMETER OF THE FRAME AND COVER.
- 13. WHENEVER PRE-CAST CONCRETE COMPONENTS ARE TO BE PLACED ON ANY PART OF AN EXISTING BRICK MANHOLE, THESE COMPONENTS SHALL BE PLACED AND SECURED BY APPLYING MORTAR. THE DEPTH, WIDTH, AND THICKNESS OF THE MORTAR SHALL BE OF SUFFICIENT DIMENSIONS TO PROPERLY AND ADEQUATELY JOIN AND SECURE THE COMPONENTS.

#### REFERENCE:

14. STANDARD MANHOLE FRAME AND COVER SHALL BE INSTALLED PER DETAIL S-MH7 UNLESS OTHERWISE DIRECTED. 15. PAVEMENT RESTORATION SHALL MEET REQUIREMENTS IN CITY STANDARD DETAILS U-01.0 - U-3.2.

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MANHOLE COLLAR AND
ADJUSTMENT

REV. DATE:06/2020	DETAIL: S-MH6
APPROVED:	
Brien Du	m
CITY ENGINEER	
Rebecco Bjort	
PUBLIC WORKS DIRECTOR	

	ANTA BARBARBARBARBARBARBARBARBARBARBARBARBARB		
4" OR 6"			- 42"
		DU	
NOTES: 1. SINGLE 26.5" 2. DUAL 36" / 22 3. WHEN ON DF GREATER LC MATERIALS: 4. DUAL MANHO APPROVED E 5. WHEN RIM TO 6. SINGLE FRAM <u>CONSTRUCTION:</u> 7. MANHOLE CO <u>REFERENCE:</u> 8. FOR STANDA	SECTION FRAME AND COVER SHALL BE USED ON A FRAME AND COVER SHALL BE USED ON RIVABLE SURFACES MINIMUM LOADING SH DAD CAPACITY IS NEEDED. DLE FRAME AND COVER SHALL BE MANUF EQUAL. O GRADE EXCEEDS 6", A LOCKING COMPO ME AND COVER SHALL BE MANUFACTURE DVERS TO BE DESIGNATED "CITY OF SAN" ARD MANHOLE STRUCTURES, SEE S-MH1 A	48" DIAMETER MANHOLES. I 60" DIAMETER MANHOLES. HALL FOLLOW AASHTO H20 STANDAF FACTURED BY SOUTH BAY FOUNDRY DSITE MANHOLE FRAME AND COVER D BY SOUTHBAY FOUNDRY (MODEL TA BARBARA SEWER" IN CASTING. AND S-MH2.	SECTION RDS. ENGINEER TO DETERMINE IF (MODEL # SBF 1325 / 1310) OR PER S-MH8 IS REQUIRED. # SBF 1254A).
	MANHOLE F	RAMES AND ERS	REV. DATE: 06/2021 DETAIL: S-MH7 APPROVED: CITY ENGINEER 9-2-2021 PUBLIC WORKS DIRECTOR





	MANHOLE BASE A SECTION A-A	MANHOLE BASE B SECTION B-B	
NOTES: 1. BASE B APPLIE 2. CAMERA CHAN MATERIALS: 3. BASE SHALL B EITHER UNDIS CONSTRUCTION: 4. BENCH AND CI 5. ANY CHANGE 6. INSIDE SURFA: SHARP EDGES 7. ALL INLETS SH POSSIBLE. PEEEENICE:	ES WHEN END OF LINE MANHOLE OR SINGLE INL NEL REQUIRED FOR ALL 6", 8", AND 10" COLLEC E BEDDED ON A MINIMUM OF 6" OF WELL GRADE TURBED OR COMPACTED PER GREENBOOK STA HANNEL SHALL BE COMPLETED IN A SINGLE POU IN DIRECTION SHALL BE A FIXED RADIUS CURVE CE OF INVERT AND AREA BETWEEN PIPE CONNE S. HALL BE DESIGNED AND INSTALLED SUCH THAT	ET/SINGLE OUTLET CONDITION, OTHERWISE BASE A APPLIES. TORS FOR OFF-SETS BETWEEN 80 AND 100 DEGREES. ED, ¾" ANGULAR CRUSHED ROCK OVER NATIVE MATERIAL THAT IS ANDARDS, WITH A RELATIVE COMPACTION ≥ 95% JR USING CLASS 560-C-3250 CONCRETE WITH STEEL TROWEL FINISH. EXTENDING FROM THE INLET WALL TO THE OUTLET WALL. ECTION AND CHANNEL SHALL BE FREE FROM GAPS, HOLES AND THE TOP OF PIPE ELEVATIONS AND INVERTS MATCH AS MUCH AS	
N/A			
	CAST IN PLACE N BASE	APPROVED: CITY ENGINEER REV. DATE:06/2020 DETAIL:S-MH <sup>2</sup> APPROVED: CITY ENGINEER Reference PUBLIC WORKS BIRECTOR	0



PLAN

48" DIAMETER -

B

MANHOLE BASE B PLAN



43" MINIMUM

SLOPE VIS

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PUBLIC WORKS DIRECTOR



# CONNECTIONS FOR NEW/REPLACE LATERALS TO EXISTING MAINS:

TYPE OF CONNECTION	STANDARD CONNECTION METHOD	STANDARD DETAIL #
LATERAL TO VCP MAIN	VCP WYE	S-SL3
LATERAL TO EXISTING PVC MAIN	STRAPPED RUBBER SADDLE	S-SL4
LATERAL TO EXISTING HDPE MAIN	ELECTROFUSION SADDLE	S-SL5
LATERAL TO SPIRAL WOUND MAIN	STRAPPED RUBBER SADDLE/INSERTA TEE	S-SL6
LATERAL TO CIPP MAIN	STRAPPED RUBBER SADDLE/INSERTA TEE	S-SL6

## CONNECTIONS FOR EXISTING / NEW LATERALS TO NEW MAINS:

TYPE OF CONNECTION	STANDARD CONNECTION METHOD	STANDARD DETAIL #
LATERAL TO NEW PVC MAIN	PVC WYE / SADDLE	S-SL5
HDPE LATERAL TO NEW HDPE MAIN	ELECTROFUSION SADDLE	S-SL4

## DEFINITIONS

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ID - INSIDE DIAMETER OD - OUTSIDE DIAMETER VCP - VITRIFIED CLAY PIPE PVC - POLYVINYL CHLORIDE PIPE HDPE - HIGH DENSITY POLYETHYLENE ROW - RIGHT OF WAY



# LATERAL CONNECTION MATRIX

REV. DATE: 06/2020 DETAIL: S-SL2

APPROVED: ENGINEEF Kebecca Djort PUBLIC WORKS DIRECTOR



PUBLIC WORKS DIRECTO











## NOTES

- PER THE MUNICIPAL SECTION 16.08.130, THE PUBLIC WORKS DIRECTOR SHALL REQUIRE THE USER TO CONSTRUCT, AT ITS OWN EXPENSE, MONITORING FACILITIES ADEQUATE TO ALLOW INSPECTION AND SAMPLING OF THE SEWER OR INTERNAL DRAINAGE SYSTEMS AT, UPON, OR IN THE USER'S PREMISES.
- 2. ALL MONITORING LOCATIONS MUST BE REPRESENTATIVE OF TOTAL NONDOMESTIC PROCESS FLOWS FROM THE PROPERTY.
- 3. MONITORING LOCATION MUST BE "AT THE CURB" WHERE THE FLOW LEAVES THE PROPERTY.
- 4. THE MONITORING FACILITIES MAY SERVE AS A CLEANOUT.
- 5. ANY MONITORING INSTRUMENTATION DEVICES MUST BE APPROVED BY THE PUBLIC WORKS DEPARTMENT PRIOR TO AND AFTER INSTALLATION. MANUFACTURER OF THESE DEVICES WILL HAVE RECALIBRATED EVERY SIX (6) MONTHS BY EITHER THE MANUFACTURER OR AN APPROVED TESTING LABORATORY. A COPY OF THE CALIBRATION CERTIFICATE SHALL BE FURNISHED TO THE PUBLIC WORKS DIRECTOR.
- 6. ALL MONITORING MANHOLE LOCATIONS MUST BE APPROVED BY THE PUBLIC WORKS DEPARTMENT AND PRETREATMENT STAFF PRIOR TO CONSTRUCTION AND INSTALLATION MUST BE APPROVED BY PUBLIC WORKS DEPARTMENT.

#### CONSTRUCTION

- 7. MINIMUM DIMENSIONS SHALL BE 24 INCHES IN DIAMETER AND SHALL BE AN ADEQUATE SIZE TO ACCOMMODATE REQUIRED SAMPLING AND MONITORING EQUIPMENT. SMALLER ACCESS DIMENSIONS OR DEVIATIONS MUST BE PRE-APPROVED BY PRETREATMENT STAFF
- 8. MONITORING FACILITY MANHOLES SHALL BE INSTALLED AS PER STANDARD DETAIL S-MH-3 OR S-MH-4.
- 9. THERE SHALL BE NO BENDS, TURNS, OR FLOW JUNCTIONS, WITHIN 20 PIPE DIAMETERS (D) UPSTREAM OF THE ACCESS MANHOLE.
- 10. THE SEWER LATERAL LINE SHALL BE OF SUFFICIENT LENGTH TO ENSURE REPRESENTATIVE SAMPLING.
- 11. PRETREATMENT MONITORING ACCESS SHALL BE CONSTRUCTED ON USERS' PREMISES, HOWEVER THE USER MAY REQUEST, WHEN SUCH A LOCATION IS IMPRACTICAL OR WILL CREATE UNDO HARDSHIP, TO BE CONSTRUCTED IN THE PUBLIC STREET OR SIDEWALK AREA AND LOCATED SO THAT IT WILL NOT BE OBSTRUCTED BY LANDSCAPING OR PARKED VEHICLES; PROVIDED THAT THE USER SHALL BE REQUIRED TO COMPLY WITH ALL APPLICABLE ENCROACHMENT OR OTHER LAND USE PERMITS.

#### REFERENCE

12. PRETREATMENT ACCESS MANHOLE STRUCTURE SHALL BE INSTALLED AND CONSTRUCTED PER DETAIL S-MH3 OR S-MH4 DEPENDING UPON IF THE LOCATION IS IN DRIVABLE AREAS.

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	REV. DATE:05/2022 DETAIL: S-PT1
PRETREATMENT MONITORING	APPROVED:
FACILITY DETAIL AND NOTES	CITY ENGINEER
	PUBLIC WORKS DIRECTOR



#### NOTES

## SECTION A-A

- GREASE CONTROL DEVICES (GCD) ARE NOT INTENDED FOR DOMESTIC SEWAGE. LOCATION AND TRIBUTARY DISCHARGE SOURCES 1. SHALL BE APPROVED BY BUILDING & SAFETY PRIOR TO INSTALLATION AND CONNECTION TO CITY SEWER. CONNECTIONS TO GCD SHALL NOT ALLOW INTRODUCTION OF EMULSIFIERS OR CHEMICALS CAUSING PASS THROUGH.
- EACH GCD SHALL BE INSTALLED ON PRIVATE PROPERTY AND CONNECTED SO THAT IT SHALL BE EASILIY ACCESSIBLE FOR INSPECTION. 2. CLEANING AND REMOVAL OF THE INTERCEPTED GREASE.
- 3 EACH GCD SHALL BE SIZED TO MEET EXPECTED SOLIDS LOADING TO COMPLY WITH CITY FATS. OILS AND GREASE PROGRAM AND COMPLY WITH HYDRAULIC CAPACITY PER CALIFORNIA PLUMBING CODE SECTION 1014.2.1.

### MATERIALS:

- 4 ALL INTERNAL PIPING SHALL BE 4" OR 6" TO MATCH LATERAL DIAMETER. INTERNAL PIPING MATERIAL SHALL BE HDPE OR PVC. NO METALLIC PIPE WILL BE ALLOWED TO BE USED FOR INTERNAL PIPING FOR THE GCD. CONTRACTOR TO CONNECT LATERAL PIPING TO GCD WITH ALL NECESSARY FITTINGS.
- INTERCEPTOR LOCATED IN AN AREA SUBJECT TO TRAFFIC MUST BE HS-20 TRAFFIC RATED. 5
- FOR NON TRAFFIC LOCATIONS, NON-PRECAST INTERCEPTORS MADE OF POLYPROPELENE(ENDURA XL OR APPROVED EQUAL) IS 6. ACCEPTABLE.
- ALL PRE-CAST CONCRETE GCDS SHALL BE EPOXY LINED PRIOR TO ENTERING SERVICE USING WARREN ENVIRONMENTAL EPOXY 7. COATING (OR APPROVED EQUAL). MINIMUM LINING THICKNESS SHALL BE 125 MILS.

### TESTING:

- EPOXY LINING SHALL BE PULL TESTED PER ASTM-D4541 AND SECTION 500-2.4.4 IN GREENBOOK. ALL TEST LOCATIONS SHALL BE 8 REPAIRED 2" PAST EDGE OF SCORE. RESULTS SHALL BE SUBMITTED TO WASTEWATER COMPLIANCE SPECIALIST FOR APPROVAL. BEDDING:
- 9. INTERCEPTOR SHALL BE PLACED ON A MINIMUM OF 6" TYPE I BEDDING MATERIAL, COMPACTED TO 95% RELATIVE COMPACTION.

GREASE CONTROL DEVICE (GCD)	REV. DATE: 06/2020	DETAIL: MISC-FOG
	APPROVED: Brie Dam	
	CITY ENGINEER Rebeccor Bjort	
	PUBLIC WORKS DIRECTOR	2