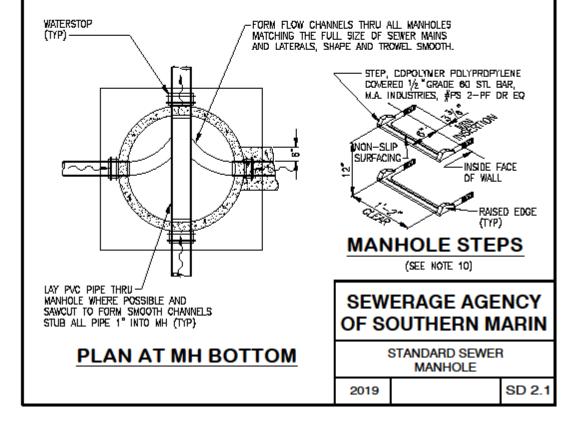
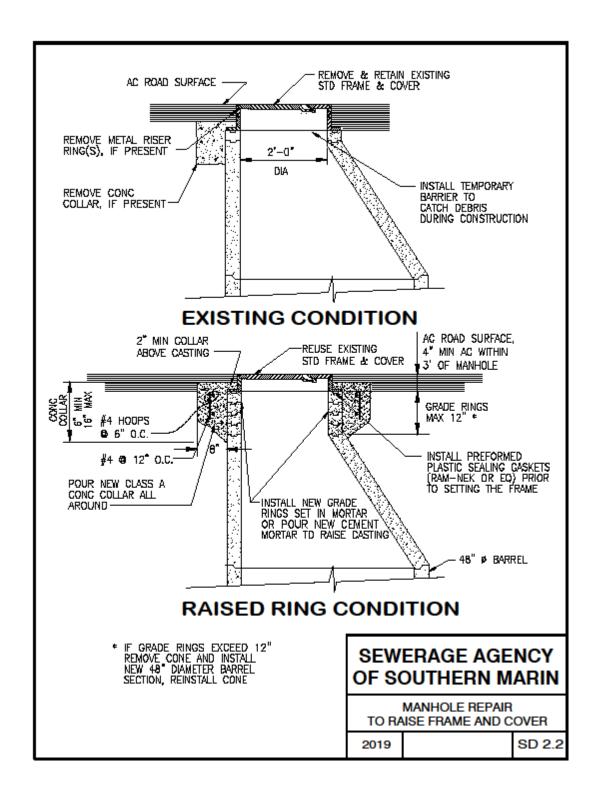
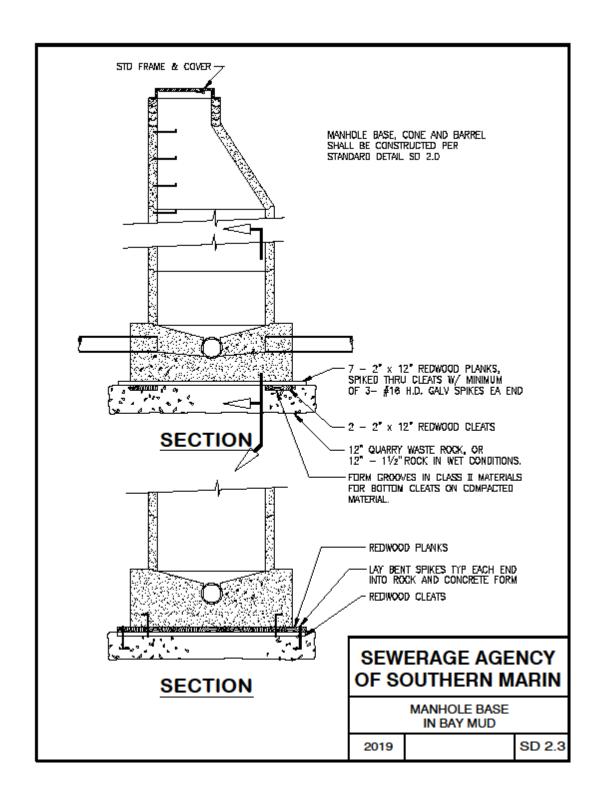


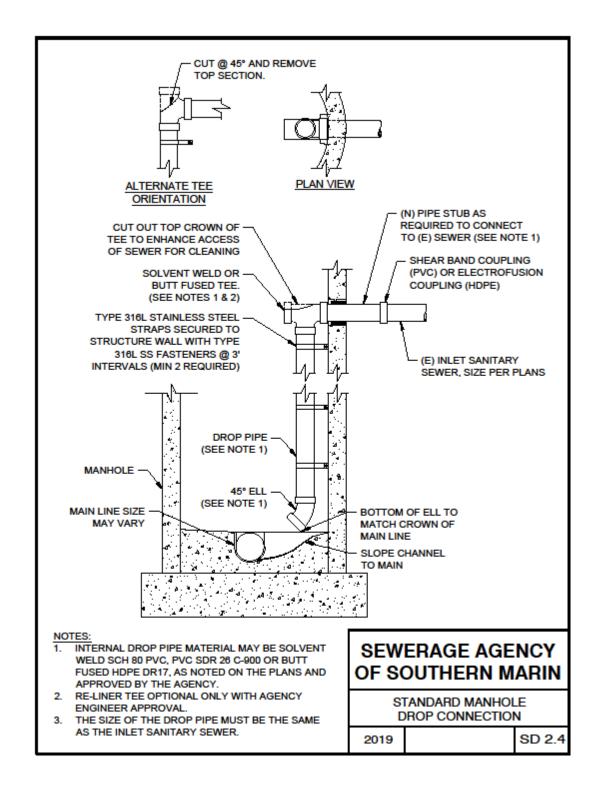
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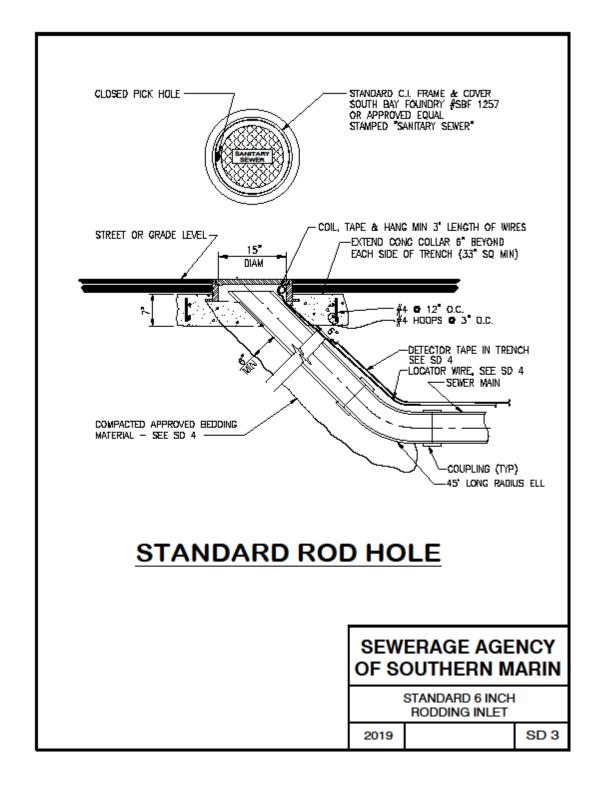
- 1. MANHOLE BASE SHALL BE CLASS A (6-suck) CONGRETE AND SHALL BE POURED AGAINST CRUSHED ROCK BEDDING.
- PREGAST CONCRETE CONE, BARREL AND GRADE RINGS SHALL CONFORM TO A.S.T.M. Spec C-478, EXCEPT THAT TYPE II Modified PORTLAND CEMENT SHALL BE USED.
- STEPS SHALL BE POLYPROPYLENE REINFORCED WITH 1/2" GRADE 60 STEEL BAR AS DETAILED BELOW, #PS 2-PF AS MANUFACTURED BY M.A. INDUSTRIES OR EQ.
- FRAME AND COVER MAY BE ADJUSTED TO GRADE LEVEL BITHER BEFORE OR AFTER PAVING, BUT FINAL GRADE SHALL CONFORM TO ADJACENT FINISH PAVEMENT GRADE WITHIN 1/8".
- 5. ECCENTRIC CONE SECTION SHALL BE POSITIONED AS DIRECTED BY THE AGENCY.
- WHERE FRAME AND COVER IS SET AFTER PAYING, THE CONCRETE COLLAR SHALL BE BROUGHT TO FINISH GRADE AND THE EXPOSED CONCRETE SURFACE SHALL BE COLORED WITH LAMPBLACK.
- RECESS IN MANHOLE BASE SHALL BE FORMED WITH AN APPROVED METAL FORMING RING TO RECEME PRECAST
 MANHOLE JOINT. PREFORMED PLASTIC SEAL GASKET SHALL BE INSTALLED BEFORE PLACING FIRST BARREL SECTION.
- 8. PRECAST MANHOLE BASES ARE NOT ALLOWED.
- 9. INTERNAL DROP CONNECTION MAY BE REQUESTED BY AGENCY.
- 10. MANHOLE STEPS ARE NOT ALLOWED UNLESS REQUESTED BY AGENCY.

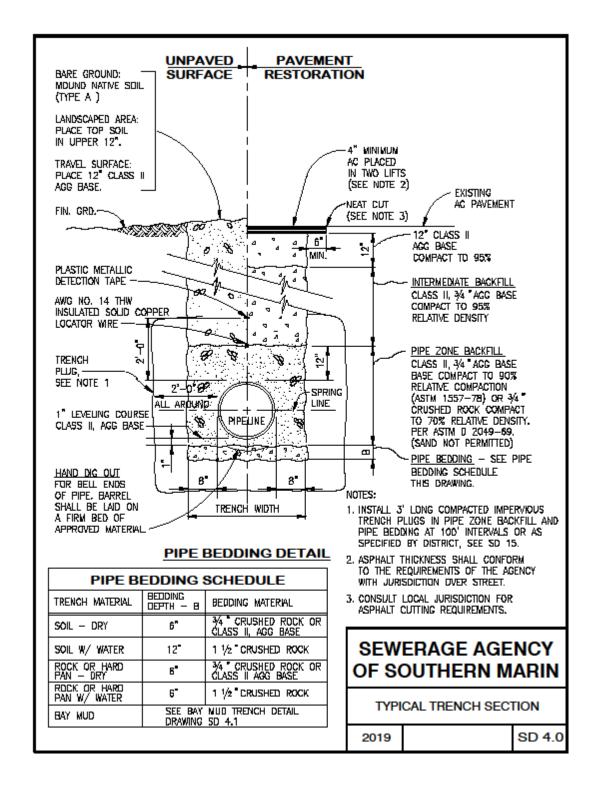


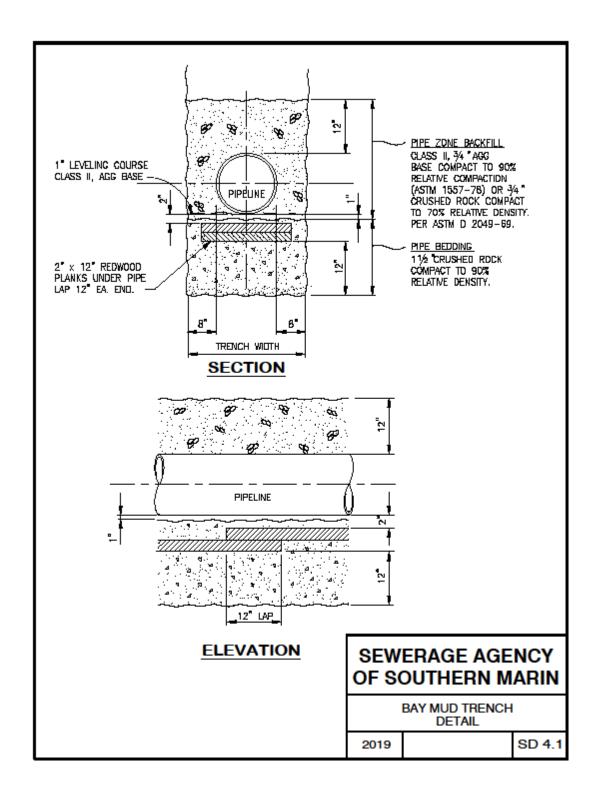


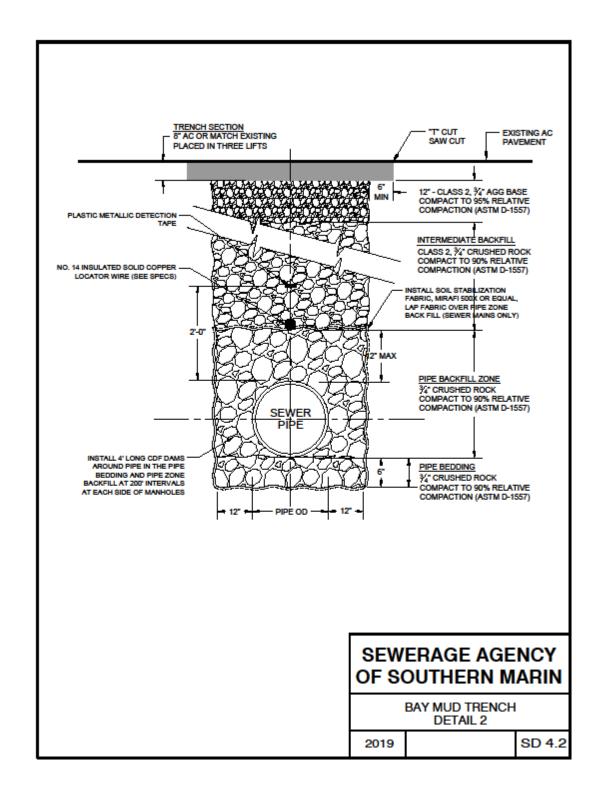


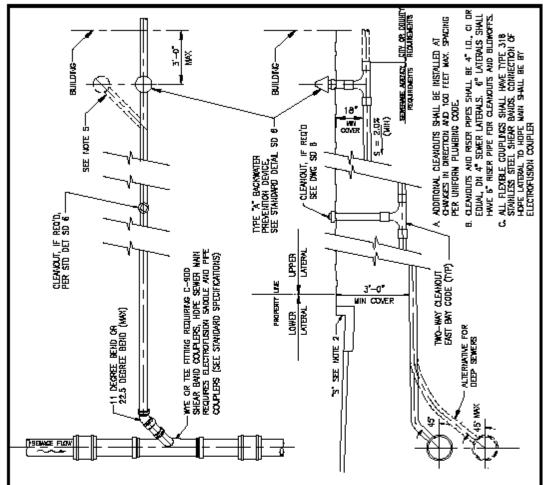












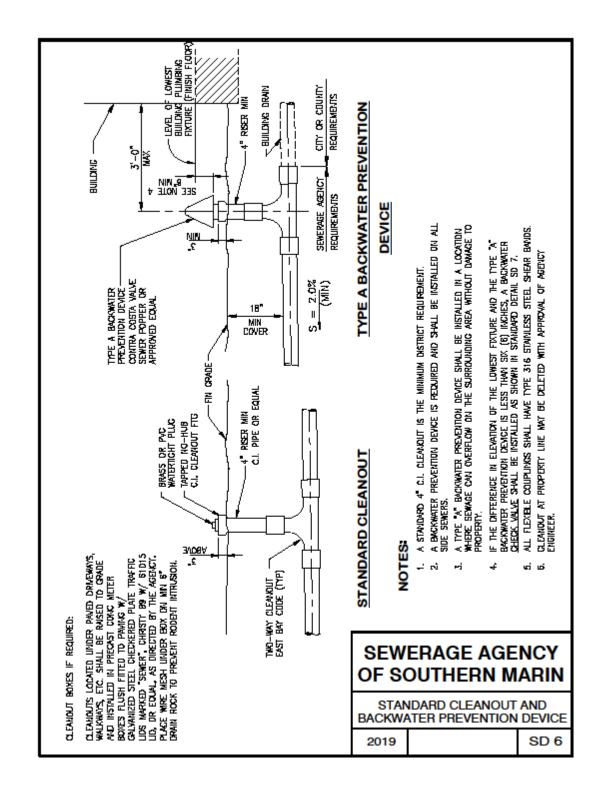
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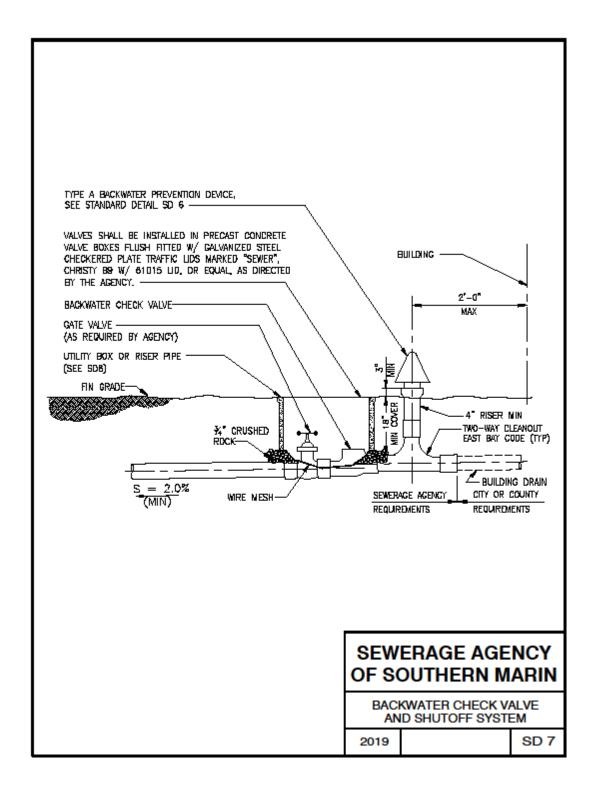
- WHEN A LATERAL SEWER IS INSTALLED IN ADVANCE OF THE BUILDING SEWER, IT SHALL BE TERMINATED AT OR NEAR THE PROPERTY LINE. THE END OF THE LATERAL SHALL BE MARKED WITH A 4" x 4" REDWICKSD STAKE, PAINTED GREEN, FROM THE TOP OF THE PIPE TO A MINIMUM OF 6" ABOVE THE FINISHED GROUND SURFACE.
- 2. WHERE CONCRETE CURBS AND CUITERS EXIST OR ARE TO BE A PART OF AN IMPROVEMENT, EACH SIDE SEWER SHALL BE PERMANENTLY LOCATED BY IMPRINTING OR CHISELING AN "S" (3" pize) IN THE FACE OF THE CURB VERTICALLY ABOVE THE SEMER PIPE.
- BACKFILL SHALL NOT BE PLACED UNTIL PIPE INSTALLATION HAS BEEN INSPECTED AND APPROVED BY THE AGENCY. PIPE BEDDING 3" AROUND PIPE ON PRIVATE PROPERTY MAY BE SAND WHERE REQUIRED BY COUNTY BUILDING PERMIT.
- TYPE A BACKWATER PREVENTION DEVICE (DONTRA COSTA RELIEF VALVE, ALSD KNOWN AS MUSHROON CAP) SHALL BE INSTALLED ON A 4" MINIMUM RISER PIPE NOT MORE THAN 2" FROM BULLDING WALL, PER STANDARD DETAIL SD6.
- 5. TYPE A BACKWATER PREVENTION DEVICE MAY BE INSTALLED TO LEFT OR RIGHT SIDE OF LATERAL, OUTSIDE CARAGE OR STEP AREAS.
- B. LATERAL TRENCHES IN AREA OF PUBLIC STREET CURB, GUTTER AND SIDEWALK SHALL BE COMPACTED THE SAME AS TYPICAL TRENCH DETAIL SO 4. AREAS AROUND NEW CONCRETE CLEAN—OUT BOXES SHALL BE SOILS TESTED TO SOIS COMPACTED. CONTRACTOR IS TO USE WHATEVER MEANS NECESSARY TO ACHEVE BOX COMPACTION.

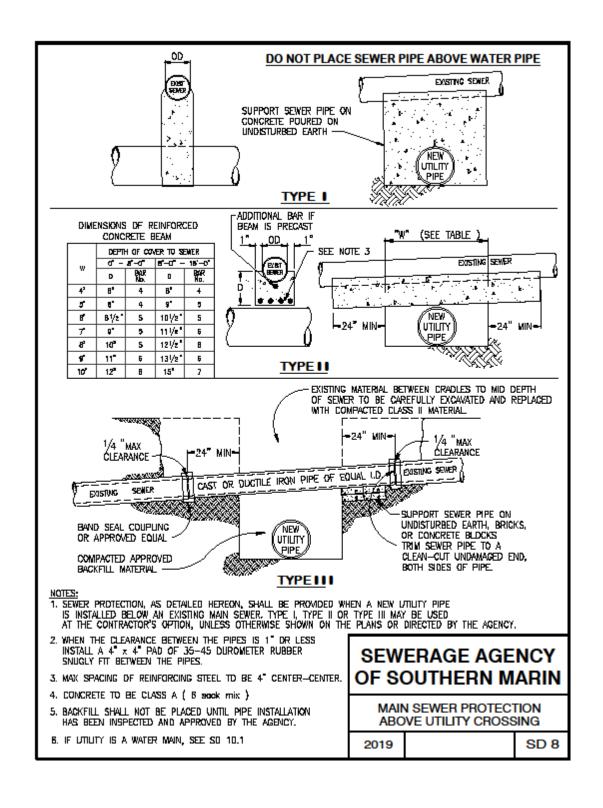
SEWERAGE AGENCY OF SOUTHERN MARIN

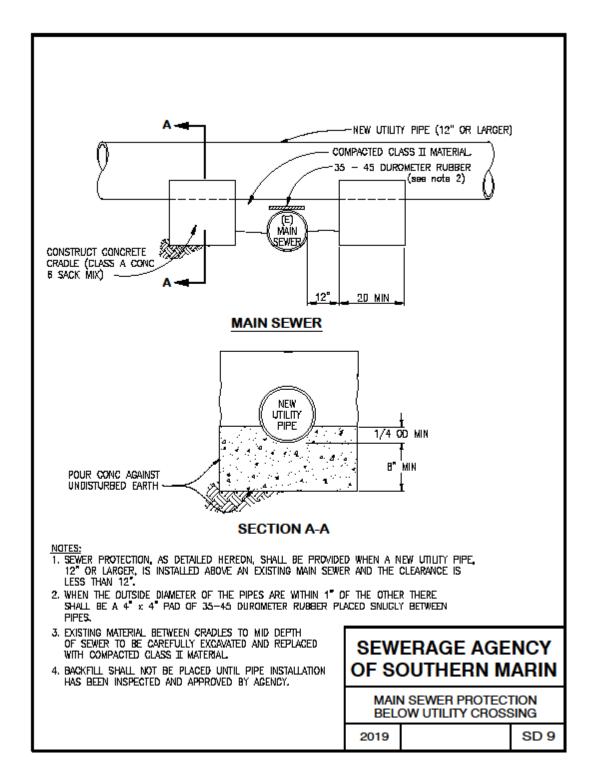
TYPICAL SIDE SEWER DETAILS

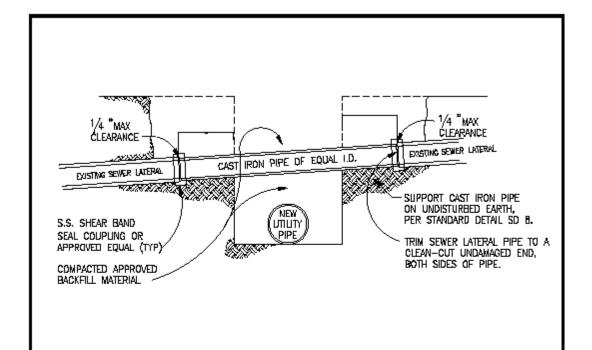
2019 SD 5











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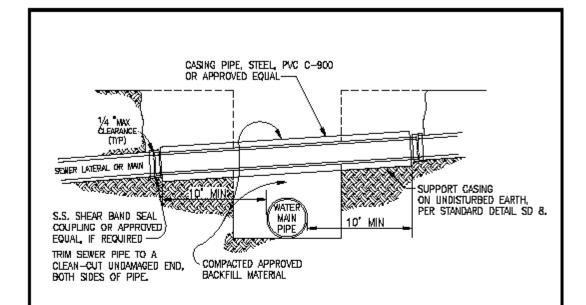
- SEWER PROTECTION, AS DETAILED HEREON, SHALL BE PROVIDED WHEN A NEW UTILITY PIPE, 12° OR LARGER, IS INSTALLED BELOW AN EXISTING SEWER LATERAL.
- BACKFILL SHALL NOT BE PLACED UNTIL PIPE INSTALLATION HAS BEEN INSPECTED AND APPROVED BY AGENCY.
- 3. WHEN THE OUTSIDE DIAMETER OF THE PIPES ARE WITHIN 1" OF THE OTHER THERE SHALL BE A 4" x 4" PAD OF 35-45 DUROMETER RUBBER PLACED SNUGLY BETWEEN PIPES.
- 4. IF UTILITY IS A WATER MAIN, SEE SD 10.1

SEWERAGE AGENCY OF SOUTHERN MARIN

SEWER LATERAL PROTECTION ABOVE UTILITY CROSSING

2019

SD 10.0



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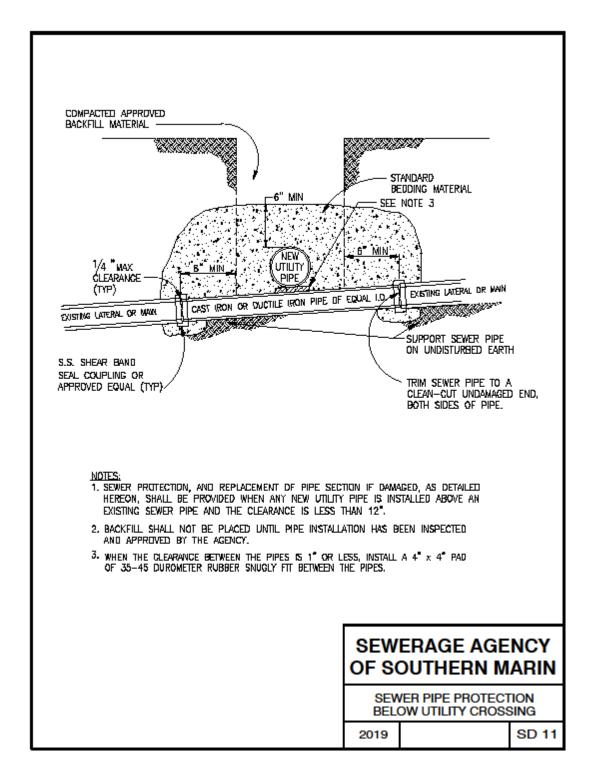
- SEWER CASING PROTECTION, AS DETAILED HEREDN, SHALL BE PROVIDED FOR ALL SEWER PIPES, MAIN OR LATERAL, INSTALLED OVER WATER MAINS.
- BACKFILL SHALL NOT BE PLACED UNTIL PIPE INSTALLATION HAS BEEN INSPECTED AND APPROVED BY AGENCY.
- WHEN THE OUTSIDE DIAMETER OF THE WATER PIPE AND CASING ARE WITHIN 1" OF THE OTHER THERE SHALL BE A 4" x 4" PAO OF 35-45 DURDMETER RUBBER PLACED SNUGLY BETWEEN PIPES.
- 4. CASING LENGTH MUST EXTEND 10' BEYOND EITHER SIDE OF THE WATER MAIN.
- CASING MAY BE A SPLIT-CLAMSHELL TYPE SECURED WITH S.S. BAND REPAIR CLAMPS IF APPROVED BY THE AGENCY, WHERE CUTTING SEWER PIPE IS NOT ALLOWED BY SASM.

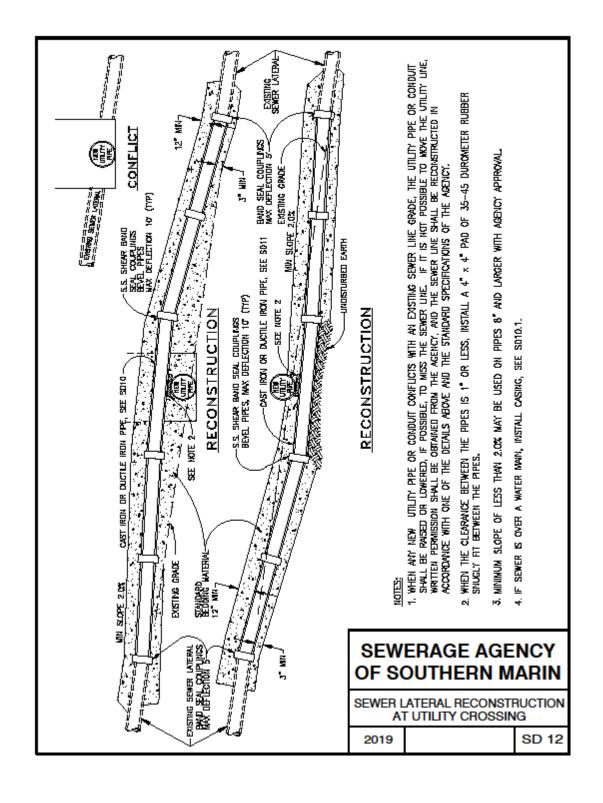
SEWERAGE AGENCY OF SOUTHERN MARIN

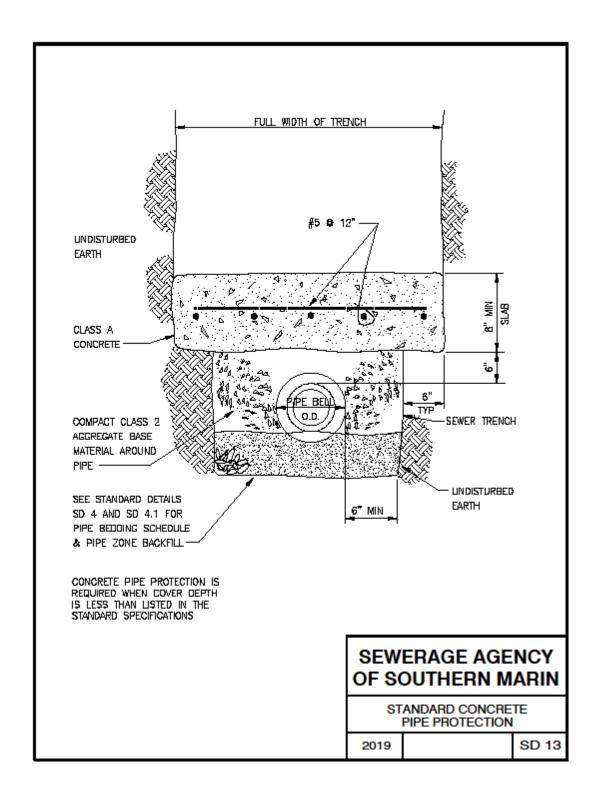
SEWER PIPE CASING ABOVE WATER MAIN CROSSING

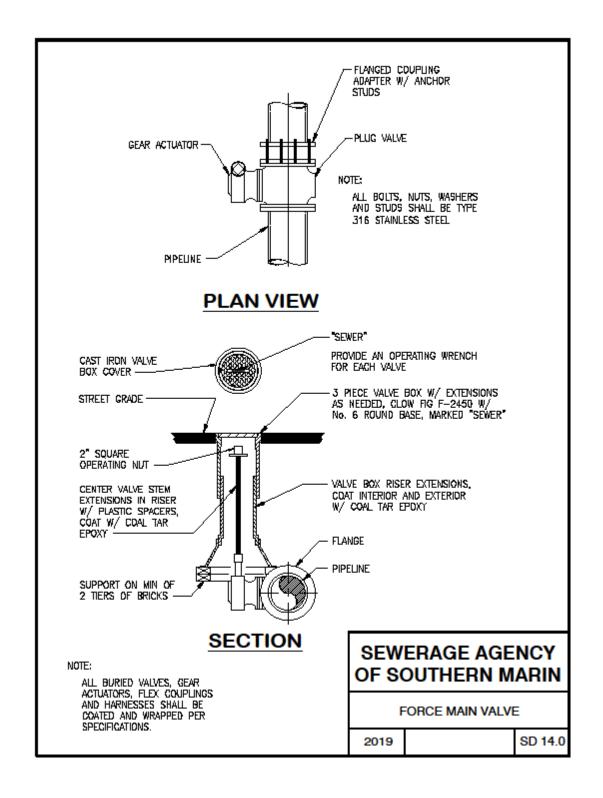
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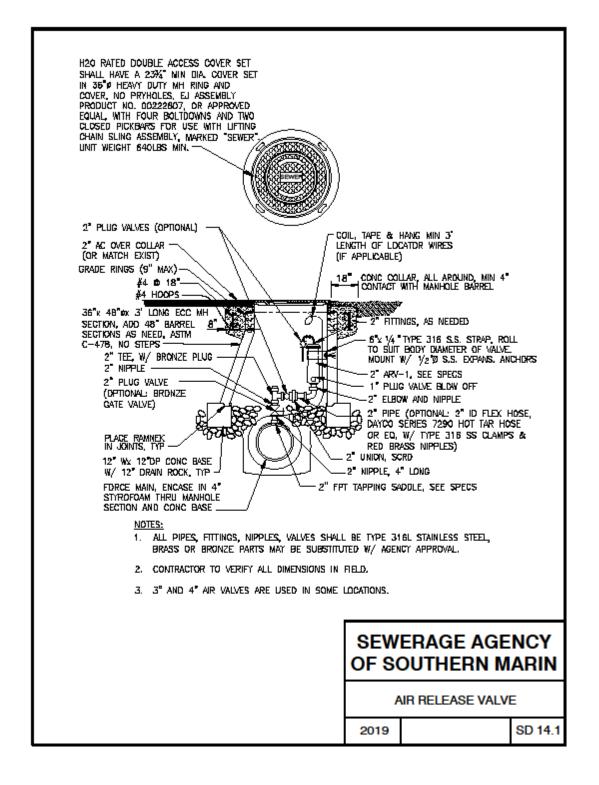
SD 10.1

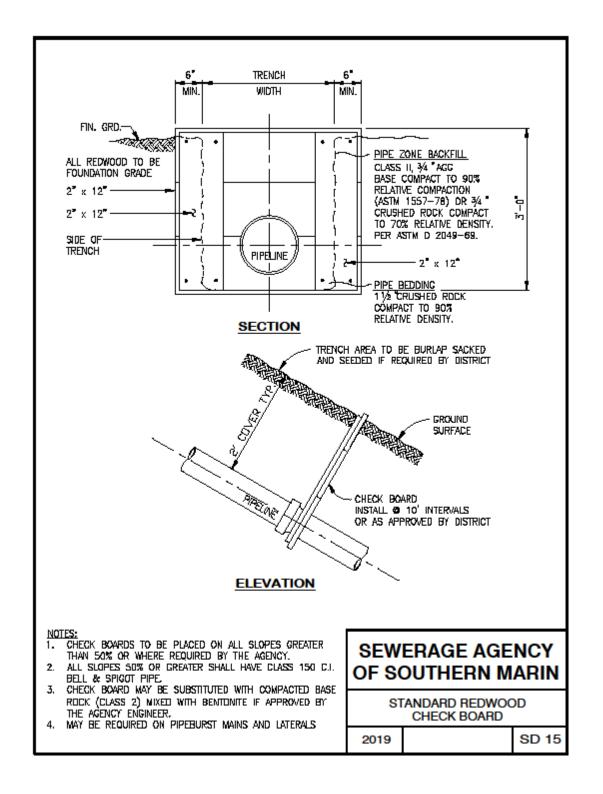


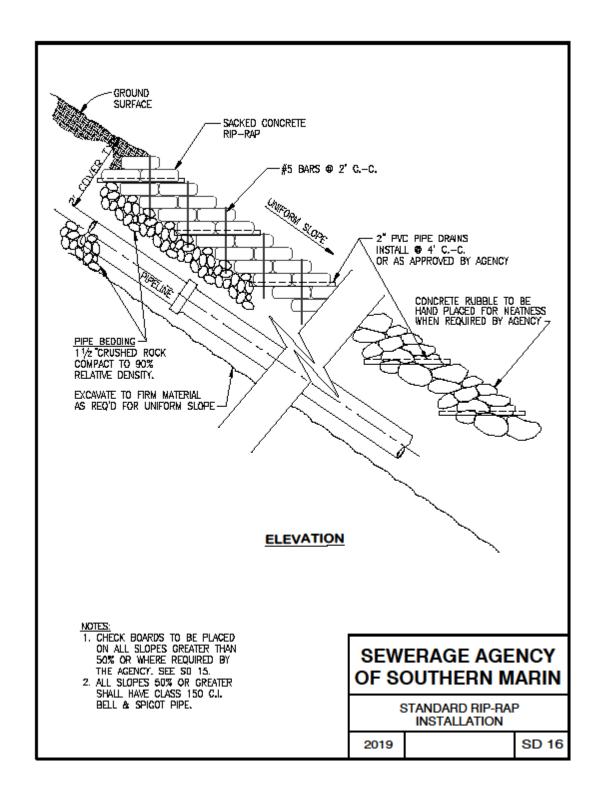


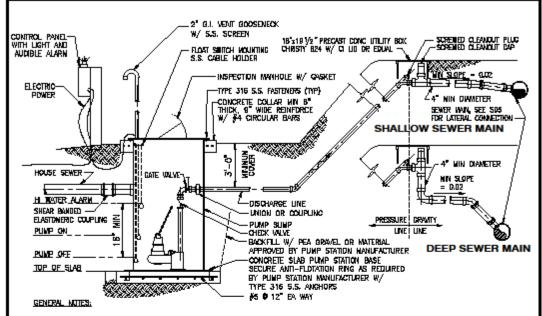












THE NINMAM REQUIREMENTS FOR A RESIDENTIAL SEWAGE PUNPING SYSTEM CONNECTING A SINGLE RESIDENCE OR EQUIVALENT TO THE DISTRICT'S SYSTEM ARE SPECIFIED BELOW. THE DISTRICT ACCEPTS NEEP CONTRACT FOR THE DESIGN, OPERATED SYSTEMS, ALL WORK SHALL COMPLY WITH THE UNIFORM PLUMBING AND BUILDING CODES.

MANUFACTURERS:
ALL EQUIPMENT AND ACCESSORIES SHALL BE INDUSTRY STANDARD
MANUFACTURED ITEMS AND THOSE CONING IN DIRECT CONTACT WITH
SEWAGE SHALL BE SPECIFICALLY MANUFACTURED FOR SEMAGE USE.

<u>Pumps;</u> Pumps shall be submersible solids handling or grinder PUBLIS SHALL BE SUBMISSILE SOLUTIONS HONDLING OR GRANDER. THEE SEMAGE PUBLIS. PUBLI NOTURES FOR RESIDENTIAL SERVICE SHALL BE EXPLOSION PROOF OR MEET CLASS 1, DMISION 2 REQUIREMENTS PER NEC. ALL COMMERCIAL INSTALLATIONS SHALL CONSIST OF DUPLEX EXPLOSION PROOF PUBLIS EACH RATED FOR TOTAL LOADING. ALL PUBLIS NOTURES SHALL BE UL USTED.

PUMP SUMP:

THE PLAND SUMP SHALL BE CONSTRUCTED OUT OF NON-CORPOSIVE MATERIAL OF SUITABLE STRENGTH TO WITHSTAND HYDRAULIC AND EARTH LOADS. THE PUMP SUMP SHALL BE A HYDRAULC AND EARTH LOADS. THE PUMP SUMP SHALL BE A MINIMUM SAFELY OF 230 CALLONS AND SHALL BE PROVIDED WITH A FOUR (4) INCH MINIMUM INLET. IN ANY CASE THE INLET I.D. SHALL BE EXIAL TO OR GREATER THAN THE BUILDING PLUMBING STUB. THE TOP OF THE PUMP SUMP SHALL BE SECURELY ANCHORED TO THE PUMP SUMP BUILTS, AND ALL JOINTS BETWEEN THE COMPONENT PARTS SHALL BE SEALED WITH A WATERPROOF MASTIC.

ELECTRIC POWER SERVICE:
THE POWER RECUIREMENTS SHALL BE AS RECOMMENDED BY
PACIFIC GAS AND ELECTRIC COMPANY.

ELECTRICAL WORK AND CONTROLS:
ALL ELECTRICAL WIRING AND INSTALLED CAPLING, CONDUCT AND CONTROLS SHALL NEET NEC CLASS 1, DIVISION 2, REQUIREMENTS AND CONFORM TO THE REQUIREMENTS OF THE CITY OR COLINTY. THE ELECTRICAL CONTROLS SHALL PROVIDE ADEQUATE PROTECTION FOR MOTION AND EQUIPMENT. THE ELECTRICAL CONTROL PANEL SHALL BEET NEC AND UL STANDARDS FOR SAFETY, OUTDOOR PANELS SHALL BE WEATHER TIGHT NEWA 4X. INDIGIDE PANELS SHALL BE NEWA 1.

FLOAT SWITCH ASSEMBLY AND HIGH-WATER ALARMS
A VISBLE RED LIGHT AND ALDIBLE HIGH TWATER ALARM SHALL
BE PROVIDED. THE HIGH WATER ALARM SHALL BE ACTIVATED BY
A DEDICATED FLOAT AND SHALL HAVE BATTERY BACKUP, ALL
FLOAT SWITCHES SHALL HAVE GAS-TIGHT MOUNTINGS.

VENT FOR PUMP SUMP.

WHERE STREM IS LOCATED WITHIN THE PWELLING, A VENT TWO
(2) INCHES OR LARGER SHALL BE PROVIDED. WHERE SYSTEM
IS LOCATED DUTSIDE THE DWELLING, A TWO (2) INCH DR LARDER VENIT SHALL BE EXTENDED TO A POINT TEN (10) FEET ABOVE THE PUMP SUMP COVER.

<u>discharge line:</u> The pressure portion of the discharge line shall THE PRESSURE PORTION OF THE DISCHARGE LINE SHALL INCLUDE A CHECK VALVE, GATE VALVE AND FLEXIBLE COUPLINGS AND SHALL BE A MINIMUM 1/2" DAMETER LARGER THAN THE PUNP DISCHARGE. ALL PIPE, VALVES AND COUPLINGS SHALL COMPRISH TO THE STANDARD SPECFICATIONS. THE GRAVITY PORTION OF THE DISCHARGE LINE SHALL BE FOUR (4) INCH MINIMUM DAMETER PIPE, SHALL MEET THE AGENCY REQUIREMENT FOR SIDE SEMENS AND SHALL PROVIDE A MINIMUM DISCHARGE SHACK SPECIAL DROPS OF THE LINESTON. MINIMUM TWELVE (12) INCH VERTICAL DROP AT THE JUNCTION WITH THE PRESSURE LINE.

SEWERAGE AGENCY OF SOUTHERN MARIN

RESIDENTIAL SEWERAGE PUMPING SYSTEM

2019 SD 17