- FITTING SHALL BE TRIMMED NEAT WITH INTERIOR OF FIBERGLASS SLIPLINED PIPE.
- THIS DETAIL CAN BE USED FOR NEW SEWER LATERALS CONNECTING TO EXISTING SEWER MAINS THAT WERE PREVIOUSLY SLIPLINED WITH FIBERGLASS PIPE.
- THIS DETAIL CAN BE USED TO CONNECT EXISTING SEWER LATERALS TO SEWER MAINS BEING SLIPLINED WITH FIBERGLASS PIPE. THIS CONFIGURATION WOULD REQUIRE A NEW SHORT PIPE STUB BETWEEN THE TAP-TITE AND THE EXISTING SEWER LATERAL. THE PIPE STUB AND THE EXISTING LATERAL WOULD BE CONNECTED USED AN APPROVED COUPLING.

TYPE 11 - TAP-TITE FITTING (OR EQUAL) FOR FIBERGLASS SLIPLINED CONNECTION (SEWER MAIN REHABILITATION)

NOT TO SCALE

SMALL GASKET **EXISTING** BETWEEN T-SHAPED SEWER LATERAL LINER AND EXISTING - VCP SEWER LATERAL SEWER LATERAL T-SHAPED CIPP LINER IN EXISTING GROUT THE JOINTS SEWER LATERAL-WITHIN 18" OF THE SEWER MAIN EXISTING SEWER MAIN PIPE BEING SMALL GASKET LINED WITH BETWEEN T-SHAPED CURED-IN-PLACE LINER AND CURED LINER -LINER IN SEWER LATERAL CURED-IN-PLACE PIPE LINER IN SEWER MAIN PIPE 18" ALTERNATIVE ' SHOWN IN PLAN VIEW ALTERNATIVE 1: ALTERNATIVE 2:

TYPE 14 - CONNECTION BETWEEN EXISTING SEWER LATERAL AND SMALL SEWER MAIN BEING LINED

NOT TO SCALE

SEAL JOINTS USING GROUT

LATERAL AND LARGE SEWER MAIN BEING LINED

NOT TO SCALE

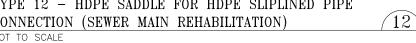
APPROVED COUPLING, SEE NOTE 2 -SECURELY MORTAR CONNECTION INTO CORED HOLE REMOVE SEWER MAIN AS NECESSARY TO CONNECT SADDLE-EXISTING SEWER MAIN-PROVIDE ANNULAR SPACE BETWEEN EXISTING SEWER MAIN AND LATERAL AS NECESSARY SEWER LATERAL TO ENSURE PROPER INSTALLATION OF HDPE SADDLE PLUG AND FILL ANNULAR HDPE SLIPLINED PIPE SPACE WITH SLURRY GROUT PER SFDPW SANITARY SEWER HDPE ELECTRO-FUSION SADDLE LATERAL SPECIFICATIONS CUT OPENING IN HDPE SLIPLINED CONNECT SEWER LATERAL TO PIPE TO MATCH SADDLE OPENING HDPE SADDLE USING COUPLING SMOOTH ROUGH EDGES OF OPENING PER SFDPW STANDARD IN PIPE LINER AS NECESSARY SANITARY SEWER LATERAL SPECIFICATIONS

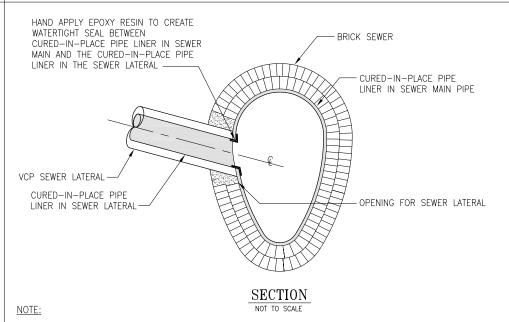
- THIS DETAIL CAN BE USED FOR NEW SEWER LATERALS CONNECTING TO EXISTING SEWER MAINS THAT WERE PREVIOUSLY SLIPLINED WITH HDPE PIPE.
- THIS DETAIL CAN BE USED TO CONNECT EXISTING LATERALS TO SEWER MAINS BEING SLIPLINED WITH HDPE PIPE. THIS CONFIGURATION WOULD REQUIRE A NEW SHORT PIPE STUB BETWEEN THE SADDLE AND THE EXISTING SEWER LATERAL. THE PIPE STUB AND THE EXISTING SEWER LATERAL SHALL BE CONNECTED USING AN APPROVED COUPLING OR IN THE CASE OF HDPE LATERALS SHALL BE FUSED

TYPE 12 - HDPE SADDLE FOR HDPE SLIPLINED PIPE CONNECTION (SEWER MAIN REHABILITATION)

NOTES:

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THIS DETAIL CAN BE USED TO CONNECT EXISTING SEWER LATERALS BEING LINED WITH CURED-IN-PLACE PIPE LINER TO SEWER MAINS BEING LINED WITH CURED-IN-PLACE PIPE LINER

TYPE 15 - CONNECTION BETWEEN EXISTING SEWER

(15)

RUBBER SLEEVE, TAP-TITE FITTING OR EQUAL SEWER LATERAL CURED-IN-PLACE PIPE LINER OR OTHER TIGHT FITTING PIPE LINER -STAINLESS STEEL BANDS SMOOTH ROUGH EDGES OF OPENING IN **EXISTING SEWER MAIN** PIPE LINER AS NECESSARY. HAND APPLY EPOXY RESIN TO CREATE WATERTIGHT SEAL BETWEEN RUBBER SLEEVE AND PIPE LINER

NOTES:

- FITTING SHALL BE TRIMMED NEAT WITH INTERIOR OF CURED-IN-PLACE PIPE.
- THIS DETAIL CAN BE USED FOR NEW SEWER LATERALS CONNECTING TO EXISTING SEWER MAINS THAT WERE PREVIOUSLY LINED WITH CURED-IN-PLACE PIPE (OR OTHER TIGHT FITTING LINER)
- IF PERMITTED BY THE PROJECT DOCUMENTS, THIS DETAIL CAN BE USED TO CONNECT EXISTING SEWER LATERALS TO SEWER MAINS BEING LINED WITH CURED-IN-PLACE PIPE LINER. THIS CONFIGURATION WOULD REQUIRE EXCAVATION AT EACH SEWER LATERAL. THIS CONFIGURATION WOULD ALSO REQUIRE A NEW SHORT PIPE STUB BETWEEN THE RUBBER SLEEVE AND THE EXISTING SEWER LATERAL. THE PIPE STUB AND THE EXISTING SEWER LATERAL WOULD BE CONNECTED USING AN APPROVED COUPLING.

TYPE 13 - TAP-TITE FITTING (OR EQUAL) FOR CURED-IN-PLACE LINER CONNECTION (SEWER MAIN REHABILITATION)

- IF CONNECTING A NEW SEWER LATERAL TO AN EXISTING SMALL DIAMETER VCP SEWER THAT WAS PREVIOUSLY LINED WITH CURED-IN-PLACE PIPE, USE A TYPE 5 CONNECTION. HAND APPLY EPOXY RESIN TO SEAL CUT EDGE ON CURED-IN-PLACE PIPE LINER WHERE IT ABUTS AGAINST FITTING.
- IF CONNECTING A NEW SEWER LATERAL TO AN EXISTING ISP SEWER THAT WAS PREVIOUSLY LINED WITH CURED-IN-PLACE PIPE, USE A TYPE 6 CONNECTION. HAND APPLY EPOXY RESIN TO SEAL CUT EDGE ON CURED-IN-PLACE PIPE LINER WHERE IT ABUTS AGAINST PVC TRANSITION PIECE.
- IF CONNECTING A NEW SEWER LATERAL TO AN EXISTING BRICK SEWER THAT WAS PREVIOUSLY LINED WITH CURED-IN-PLACE PIPE, USE A TYPE 7 OR TYPE 8 CONNECTION. HAND APPLY EPOXY RESIN TO SEAL CUT EDGE ON CURED-IN-PLACE PIPE LINER. HAND APPLY EPOXY RESIN TO COVER ANY EXPOSED PIPE WALL ON THE INSIDE OF THE MAIN SEWER PIPE BETWEEN THE LATERAL PIPE AND THE CUT LINER.
- IF CONNECTING A NEW SEWER LATERAL TO AN EXISTING LARGE DIAMETER SEWER THAT WAS PREVIOUSLY LINED WITH CURED-IN-PLACE PIPE, USE A TYPE 9 OR TYPE 10 CONNECTION. HAND APPLY EPOXY RESIN TO SEAL CUT EDGE ON CURED-IN-PLACE PIPE LINER. HAND APPLY EPOXY RESIN TO COVER ANY EXPOSED PIPE WALL ON THE INSIDE OF THE MAIN SEWER PIPE BETWEEN THE SEWER LATERAL PIPE AND THE CUT LINER.

TYPE 16 - CONNECTION BETWEEN NEW SEWER LATERAL AND LINED SEWER MAIN

⁽16)

NOT TO SCALE

APPLICABLE TO BOTH COMBINED AND SANITARY SEWER SYSTEMS

SEWER LATERAL STANDARD DETAILS

SAN FRANCISCO PUBLIC UTILITIES COMMISSION

SEWER LATERAL CONNECTION TYPES 11-16

Water **Power** Sewer

T-SHAPED CIPP LINER

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