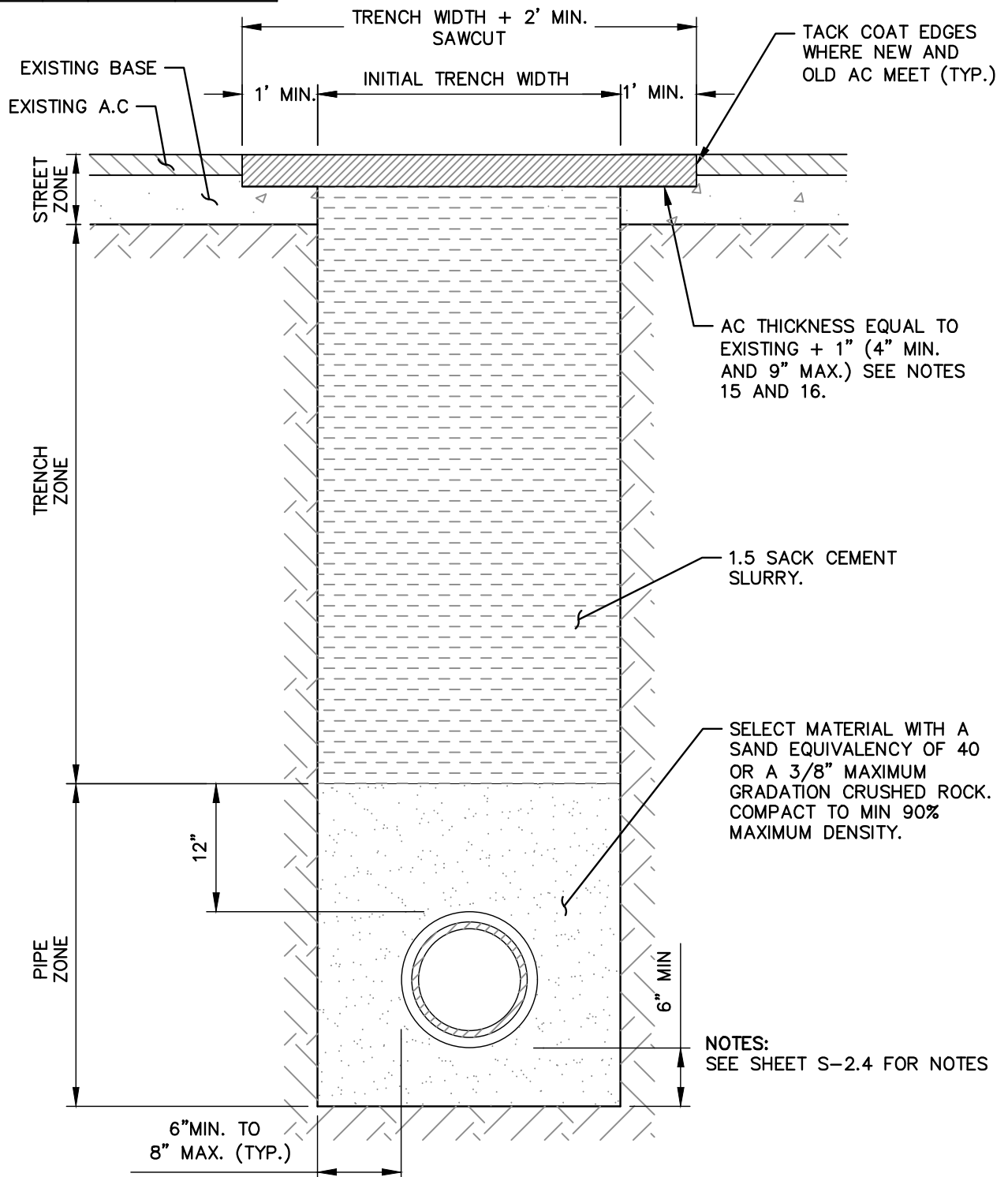


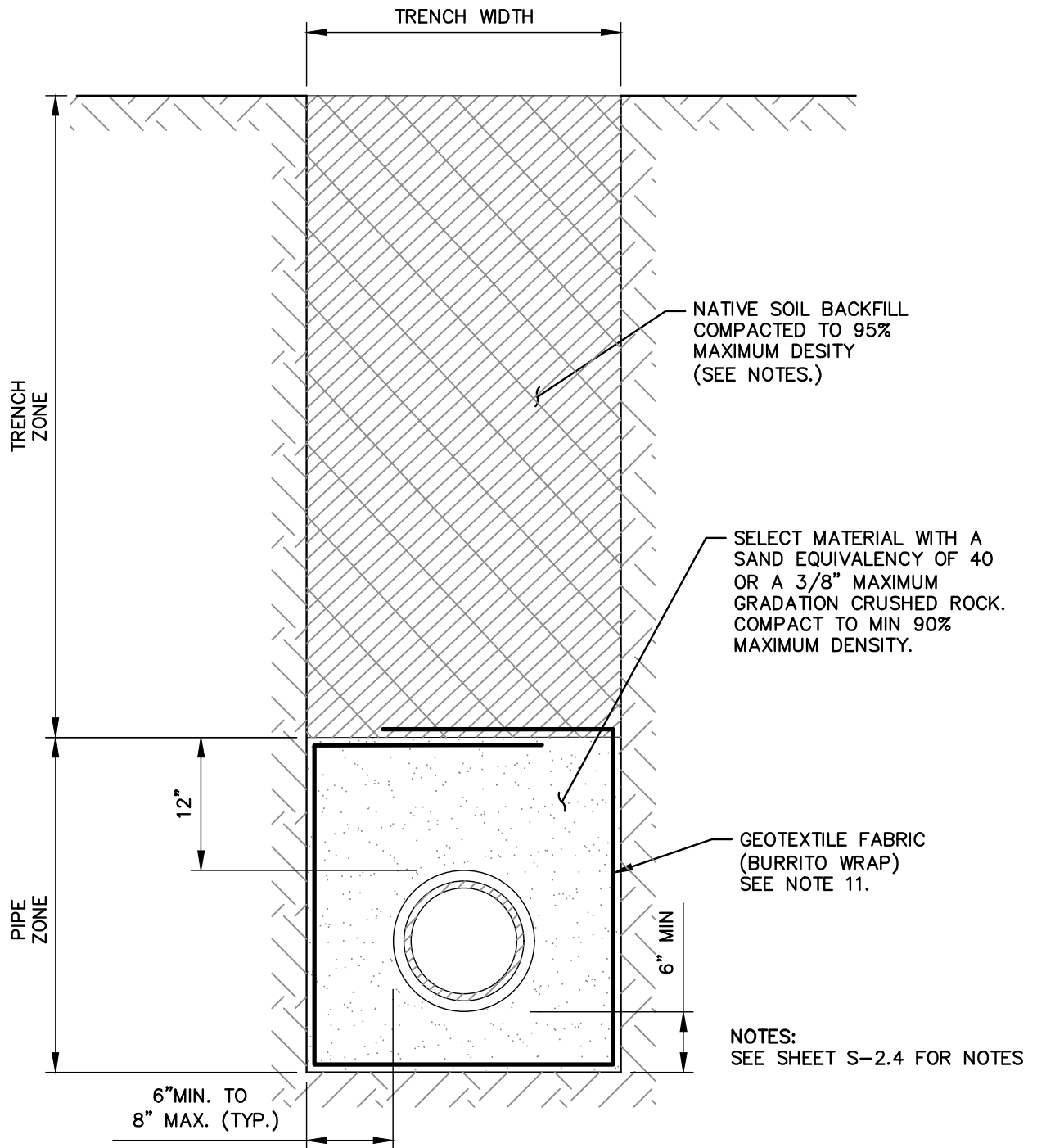
REVISIONS			
DESCRIPTIONS	BY	DATE	APPROVED
UPDATE DETAIL	MV	5/8/2023	



CASE 1 - WITHIN PAVED ROADWAY

DATE	SANTA YNEZ COMMUNITY SERVICES DISTRICT	DRAWING NO.
APRIL 2023	SEWER PIPE BEDDING AND BACKFILL DETAILS - CASE 1	S-2.1

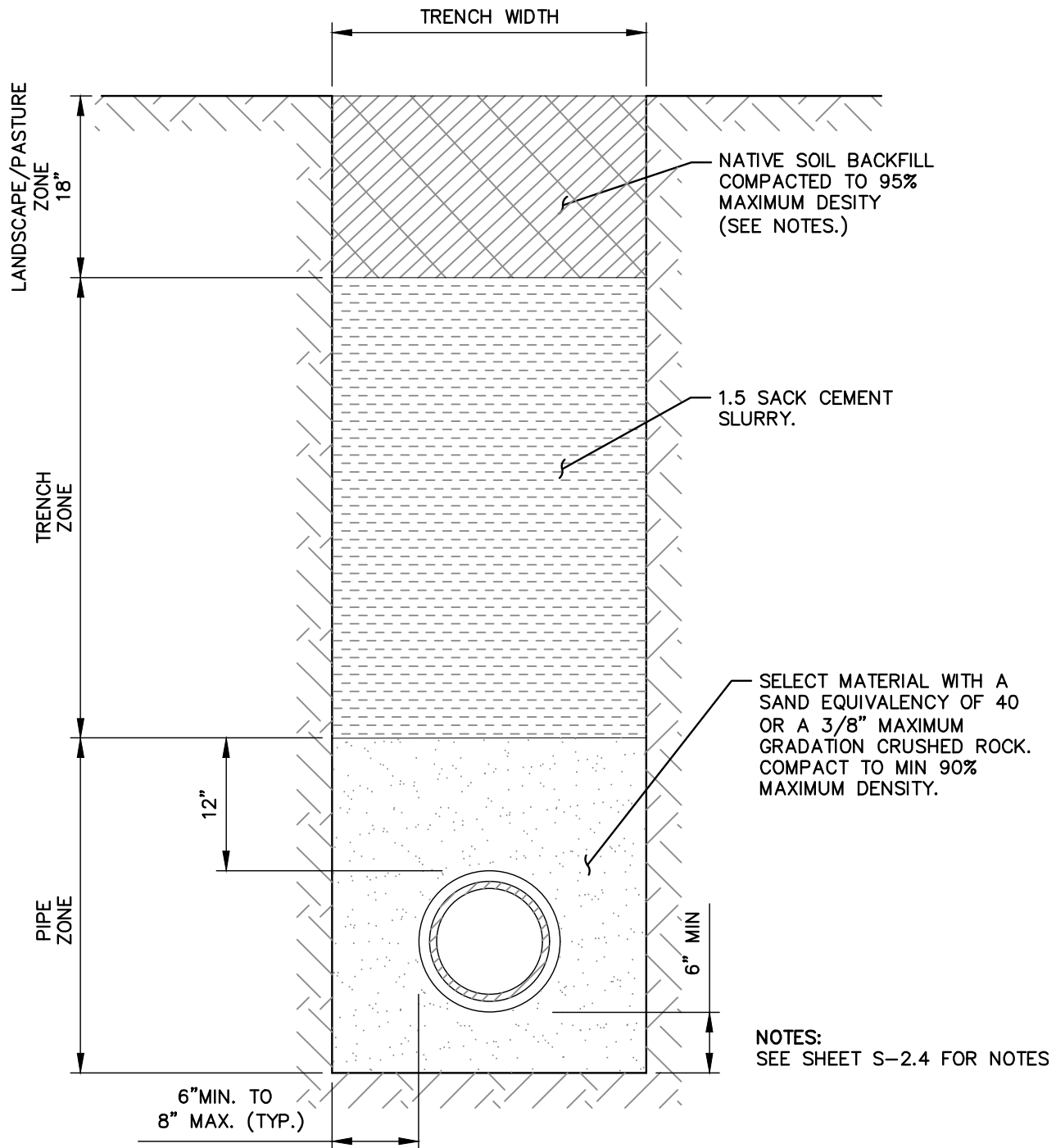
REVISIONS			
DESCRIPTIONS	BY	DATE	APPROVED
UPDATE DETAIL	MV	5/8/2023	



CASE 2 - OUTSIDE PAVED ROADWAY

DATE	SANTA YNEZ COMMUNITY SERVICES DISTRICT	DRAWING NO.
APRIL 2023	SEWER PIPE BEDDING AND BACKFILL DETAILS - CASE 2	S-2.2

REVISIONS			
DESCRIPTIONS	BY	DATE	APPROVED
UPDATE DETAIL	MV	5/8/2023	



CASE 3 –OUTSIDE PAVED ROADWAY

DATE	SANTA YNEZ COMMUNITY SERVICES DISTRICT	DRAWING NO.
APRIL 2023	SEWER PIPE BEDDING AND BACKFILL DETAILS – CASE 3	S-2.3

1. CONSTRUCTION IN THE CALTRANS OR COUNTY OF SANTA BARBARA RIGHT OF WAY SHALL BE PERFORMED IN ACCORDANCE WITH THE APPROVED ENCROACHMENT PERMIT.
2. IF CONSTRUCTION COMPLICATIONS RESULT IN TRENCH WIDTH GREATER THAN THE PIPE OUTSIDE DIAMETER PLUS 16 INCHES, SEE SYCSD STANDARD SPECIFICATIONS - EARTHWORK FOR CORRECTIVE MEASURES.
3. THE MINIMUM COVER OVER ALL SEWER MAINS SHALL BE 6 FEET AS MEASURED FROM THE FINISHED GRADE.
4. SAND AND SELECT MATERIAL SHALL MEET THE REQUIREMENTS OF SYCSD STANDARD SPECIFICATIONS - EARTHWORK. SAND EQUIVALENT SHALL BE DETERMINED BY TEST METHOD ASTM D-2419: 40 MINIMUM.
5. INITIAL BEDDING MATERIAL PLACED AT THE BOTTOM OF THE TRENCH AND BELOW THE PIPE SHALL BE LOOSELY PLACED TO AVOID STRESS CONCENTRATIONS ON THE PIPE DURING LATER COMPACTION OF BEDDING MATERIAL IN THE PIPE ZONE.
6. PIPE BEDDING MATERIAL SHALL BE PLACED IN 12-FOOT MAXIMUM LOOSE LIFTS AND COMPACTED TO 90 PERCENT OF THE MAXIMUM DRY DENSITY WITHIN TWO (2) PERCENT OF THE SOIL'S OPTIMUM MOISTURE CONTENT PER ASTM D-1557. THE BEDDING MATERIAL SHALL BE STABLE UNDER THE COMPACTION EQUIPMENT.
7. JETTING MAY BE USED AS A COMPACTION METHOD IN THE PIPE ZONE ONLY WHEN APPROVED IN ADVANCE BY THE DISTRICT INSPECTOR.
8. UNDER EXISTING PAVEMENT (INCLUDING SIDEWALK), TRENCH BACKFILL SHALL BE 1.5 SACK CEMENT SLURRY.
9. WHERE APPLICABLE, THE PIPE BEDDING AND TRENCH BACKFILL SHALL BE PLACED AND COMPACTED IN LIFTS NOT EXCEEDING 12 INCHES.
10. WHERE NOT SPECIFIED ELSEWHERE, WORK OUTSIDE THE PAVED ROADWAY SHALL BE PERFORMED IN ACCORDANCE WITH CALTRANS STANDARDS AND SPECIFICATIONS.
11. OUTSIDE THE PAVED ROADWAY, GEOTEXTILE FABRIC SHALL BE PLACED IN THE TRENCH TO ENCIRCLE (BURRITO WRAP) THE PIPE BEDDING WITH A MINIMUM OF 12 FEET OVERLAP ALONG THE TOP OF THE PIPE. GEOTEXTILE FABRIC SHALL BE MIRAFI 160N NEEDLE-PUNCHED NONWOVEN GEOTEXTILE OR APPROVED EQUAL.
12. OUTSIDE THE PAVED ROADWAY, TRENCH SPOIL (NATIVE SOIL) MAY BE USED FOR TRENCH BACKFILL. BROKEN ASPHALT CONCRETE (AC) **MAY BE INCLUDED ONLY WHEN APPROVED IN ADVANCE BY THE DISTRICT AND THE DISTRICT INSPECTOR.**
13. COMPACTION SHALL BE BY HAND-OPERATED VIBRATORY PLATE OR OTHER SUITABLE HAND-TAMPERS IN AREAS NOT ACCESSIBLE TO LARGER ROLLERS OR COMPACTORS. EXTREME CARE SHALL BE TAKEN TO AVOID DAMAGE TO PIPES. PROVIDE VERY LIGHT COMPACTION TO PIPE BEDDING BELOW THE BOTTOM OF THE PIPE. THOROUGHLY COMPACT PIPE BEDDING ALONG THE SIDES OF THE PIPE AND ESPECIALLY UNDER THE HAUNCHES OF THE PIPE. PROVIDE VERY LIGHT COMPACTION TO PIPE BEDDING DIRECTLY ABOVE THE TOP OF PIPE.
14. PIPE BEDDING AND TRENCH BACKFILL SOILS SHALL BE TESTED FOR THEIR MOISTURE-DRY DENSITY RELATIONSHIP PER ASTM D-1557. BEDDING AND BACKFILL SOILS SHALL BE TESTED FOR THEIR IN-PLACE DRY DENSITY PER ASTM D-1556 OR D-2922. COMPACTION TESTS FOR PIPE BEDDING AND TRENCH BACKFILL SHALL BE PERFORMED ONE TEST PER LIFT PER TWO HUNDRED (200) LINEAL FEET OF TRENCH (MINIMUM).
15. PAVEMENT RESTORATION SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF SYCSD STANDARD SPECIFICATIONS - REMOVAL AND RESURFACING OF STREET PAVEMENT AND SURFACES OR AS SPECIFIED IN THE CALTRANS OR COUNTY OF SANTA BARBARA ENCROACHMENT PERMIT. THE MOST STRINGENT REQUIREMENTS SHALL APPLY. UNLESS SPECIFIED ELSEWHERE, ASPHALT CONCRETE SHALL BE ½ INCH MIXED IN ACCORDANCE WITH CALTRANS SPECIFICATIONS.
16. PRIOR TO FINISHING PAVING, STREET PAVEMENT SHALL BE SAWCUT A MINIMUM OF 1 FOOT OUTSIDE THE EDGES OF THE TRENCH SUCH THAT CLEAN EDGES REMAIN FOR PAVING OPERATION. SAWCUT A MINIMUM OF ½ PAVEMENT THICKNESS. THE SURFACE OF THE NEW ASPHALT CONCRETE SHALL BE FLUSH WITH THE EXISTING ADJACENT PAVEMENT.
17. TRAFFIC STRIPING AND PAVEMENT LEGENDS/MARKINGS REMOVED OR DAMAGED BY THE WORK SHALL BE REPLACED BY THE CONTRACTOR TO MATCH EXISTING IN ACCORDANCE WITH CALTRANS STANDARDS & SPECIFICATIONS AT NO ADDITIONAL COST TO THE DISTRICT.

	SANTA YNEZ COMMUNITY SERVICES DISTRICT	DRAWING NO.
APRIL 2023	SEWER PIPE BEDDING AND BACKFILL DETAILS - NOTES	S-2.4