

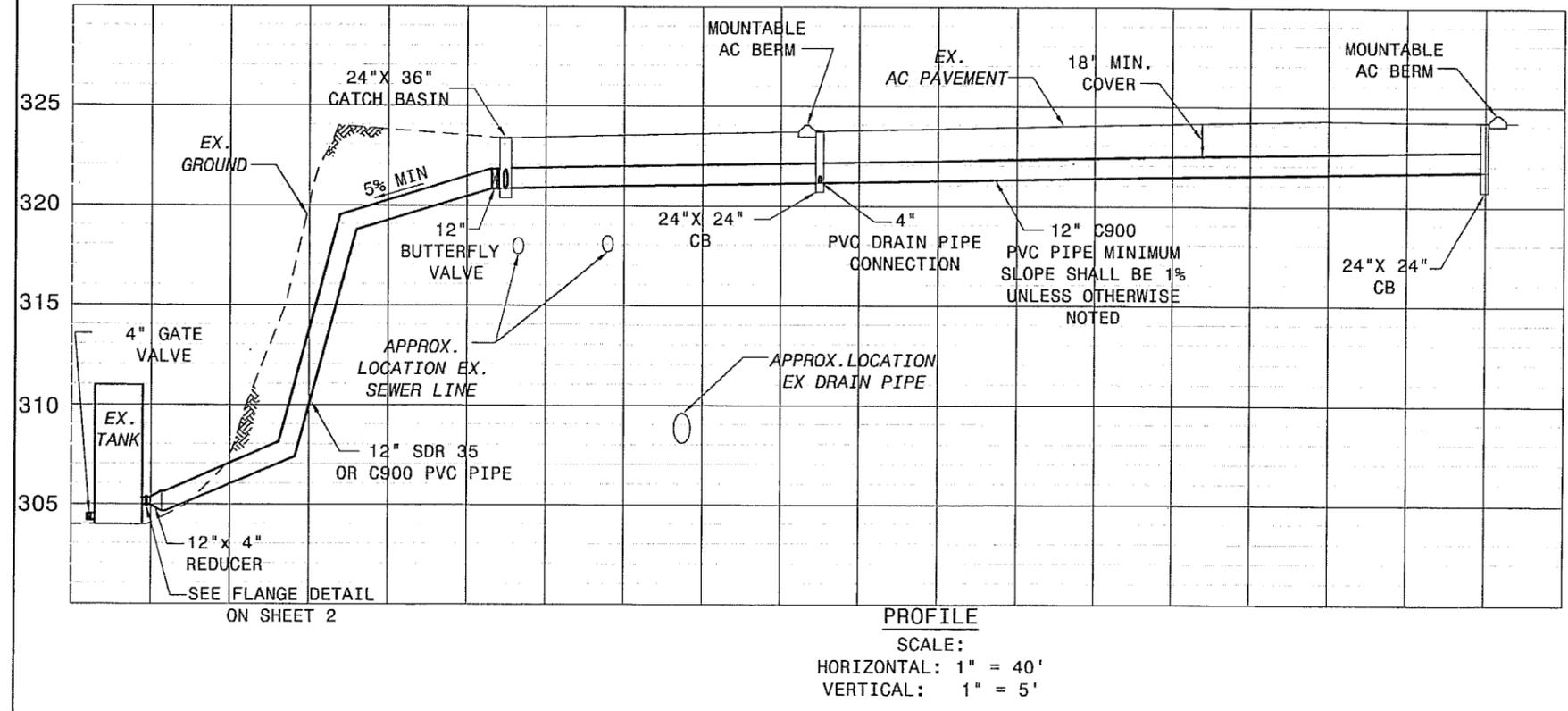
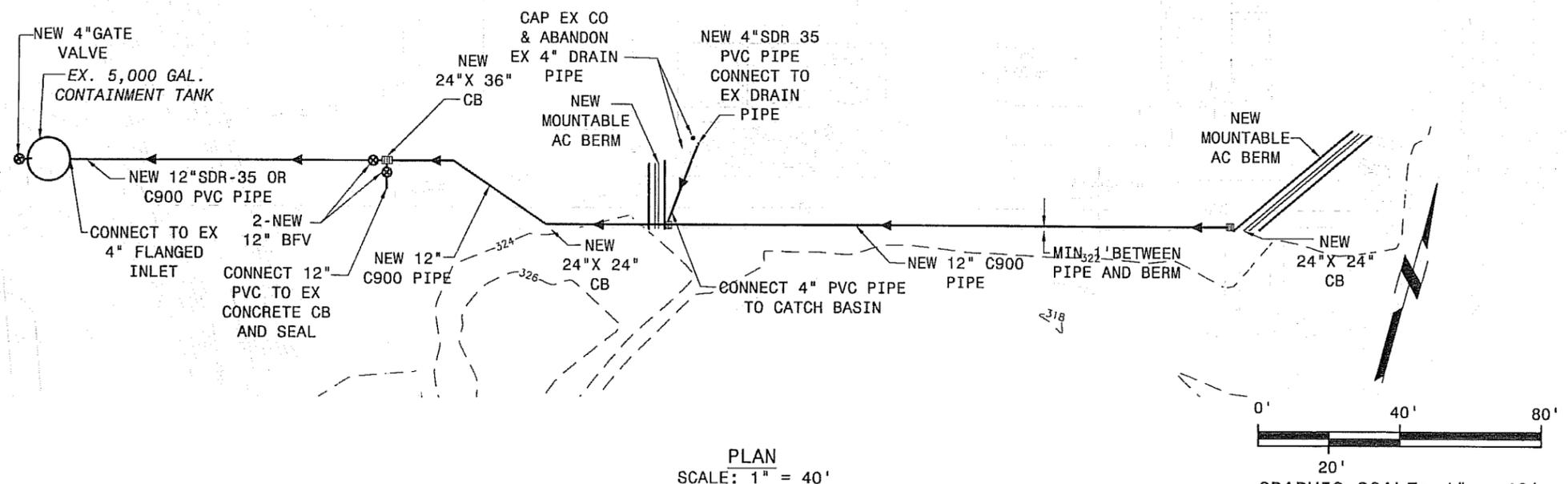
JOB NO.	SHEET NO.	TOTAL SHEETS
552R235302	1	2

- LEGEND**
- BFV BUTTERFLY VALVE
 - CB CATCH BASIN
 - CO CLEAN OUT
 - DR DRAIN PIPE TO SLUDGE BEDS
 - EX EXISTING
 - HP HIGH POINT
 - MH MANHOLE
 - SDMH STORM DRAIN MANHOLE
 - SOW SCOPE OF WORK
 - SSMH SANITARY SEWER MAHMHOLE
 - SS SANITARY SEWER

- MOUNTABLE AC BERM
- EXISTING AC BERM
- EXISTING SANITARY SEWER
- EXISTING STORM DRAIN
- CHEMICAL CONTAINMENT DRAIN LINE
- PIPE FLOW DIRECTION
- SURFACE FLOW DIRECTION
- BUTTERFLY VALVE
- 5000 GALLON CONTAINMENT TANK W/4" INLET & OUTLET FLANGE

- CONSTRUCTION NOTES:**
- ALL IMPROVEMENTS HEREON ARE SHOWN IN THEIR APPROXIMATE LOCATION AND SHALL BE "FIELD FIT" TO ACCOMMODATE EXISTING CONDITIONS AND PROVIDE THE INTENDED FUNCTIONALITY.
 - CONTRACTOR SHALL POTHOLE TO LOCATE EXISTING UTILITY CONFLICTS AND TO DETERMINE BEST FIELD FIT PRIOR TO CONSTRUCTION.
 - MOUNTABLE ASPHALT CONCRETE BERMS SHALL BE INSTALLED PER THE DETAIL HEREON.
 - ALL TRENCHING, PIPE INSTALLATION AND BACKFILL SHALL BE IN CONFORMANCE WITH COUNTY STANDARD DETAILS U-4 AND U-4A EXCEPT THAT THE MINIMUM ALLOWABLE COVER MAY BE 18".
 - CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY EXISTING ASPHALT DIKE THAT IS REMOVED OR DAMAGED AS A RESULT OF CONTRACTOR'S WORK.
 - ALL PIPING SHALL MAINTAIN A MINIMUM 1% SLOPE DRAINING DRAINING TOWARD THE EXISTING CONTAINMENT TANK.
 - ALL TRENCH REPAIR SHALL BE PER COUNTY STANDARD DETAIL R-3. SEE SPECIAL PROVISIONS FOR INSTRUCTIONS REGARDING TRENCH REPAIR WITHIN CONCRETE SECTIONS.
 - ALL CATCH BASINS SHALL BE PRE-CAST CONCRETE WITH GALVANIZED STEEL GRATING AND STANDARD KNOCKOUTS. MID-STATE CONCRETE OR APPROVED EQUAL.
 - ALL PIPING CONNECTIONS TO NEW OR EXISTING CATCH BASINS SHALL BE GROUTED AND COMPLETELY SEALED.
 - CONTRACTOR SHALL SUPPLY ALL NUTS, BOLTS AND GASKETS NEEDED FOR FLANGED CONNECTIONS.
 - ALL BURIED VALVES SHALL BE INSTALLED WITH ANCHORS AND VALVE BOXES PER COUNTY STANDARD DETAIL W-3.

- COUNTY SUPPLIED MATERIAL:**
 THE FOLLOWING MATERIALS SHALL BE SUPPLIED BY THE COUNTY:
- 280 LF OF 12" PVC (C900) PIPE, BELL AND SPIGOT
 - TWO (2) 12" PVC (C900) 45 DEGREE ELBOWS (MJ)
 - TWO (2) 12" PVC (900) 45 DEGREE ELBOWS (MJ X FL)
 - TWO (2) 12" BUTTERFLY VALVES (MJ)
 - ONE (1) 4" GATE VALVE (FL)



COUNTY OF SAN LUIS OBISPO - PUBLIC WORKS DEPARTMENT					
LOPEZ WATER TREATMENT PLANT ARROYO GRANDE, CA.					
CHEMICAL CONTAINMENT PROJECT					
SITE PLAN					
Designer	Date	Drawn By	Revised	Design Engineer	Scale
EL	07-21-10	KSS	12-04-12	T. TROTT	1" = 40'

JOB NO.	SHEET NO.	TOTAL SHEETS
552R235302	2	2

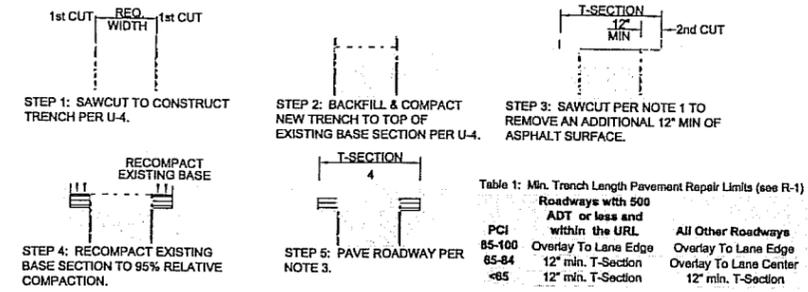
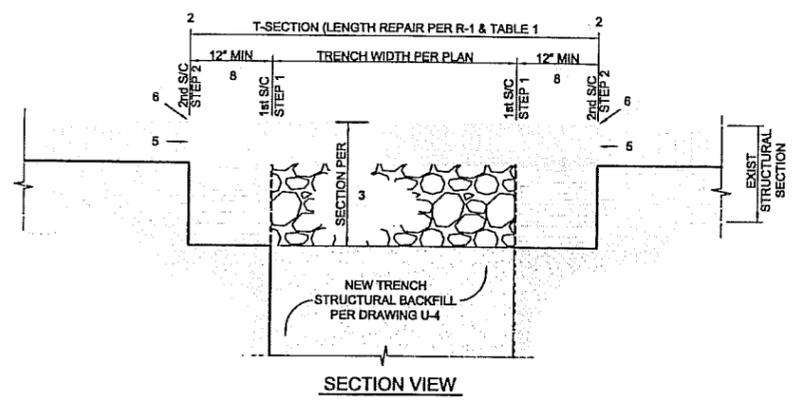


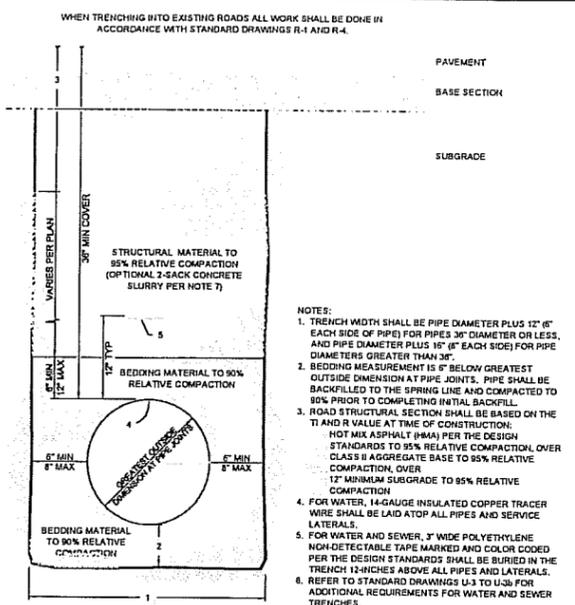
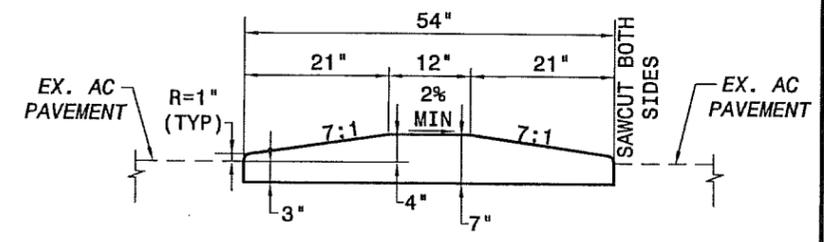
Table 1: Min. Trench Length Pavement Repair Limits (see R-1)

PCI	Roadways with 500 ADT or less and within the URL	All Other Roadways
85-100	Overlay To Lane Edge	Overlay To Lane Edge
85-84	12' min. T-Section	Overlay To Lane Center
<85	12' min. T-Section	12' min. T-Section



- NOTES:
- TRENCHING IN A ROADWAY IS ONLY ALLOWED WHEN BORING IS SHOWN TO THE DEPARTMENT AS BEING INFEASIBLE.
 - SAWCUT TO REMOVE DAMAGED OR FAILED PAVEMENT SECTION ADJACENT TO THE EDGE OF TRENCH AS NECESSARY TO PROVIDE A CLEAN JOINT LINE. ALL SAWCUTS SHALL BE PERPENDICULAR OR TRANSVERSE TO THE TRAVEL LANE. SEAMS SHALL NOT BE ALLOWED WITHIN DESIGNATED BICYCLE LANES. ALL CUT EDGES SHALL BE VERTICAL WITH SQUARE CORNERS AND SHALL BE STRAIGHT AND NEAT IN APPEARANCE. ALL SAWCUTS SHALL BE TO MINIMUM SHOWN OR TO COMPETENT PAVEMENT SECTION.
 - THE STRUCTURAL ROAD REPAIR SECTION SHALL MATCH THE EXISTING STRUCTURAL SECTION THICKNESS OR AS REQUIRED BY THE DEPARTMENT. TYPICAL ROAD WIDENING SECTION SHALL BE:
2" MINIMUM HOT MIX ASPHALT CONCRETE PER THE DESIGN STANDARDS TO 95% RELATIVE COMPACTION, OVER 6" MINIMUM CLASS II AGGREGATE BASE TO 95% RELATIVE COMPACTION, OVER TRENCH SECTION PER DRAWING U-4 (STRUCTURAL BACKFILL TO 95% MIN RELATIVE COMPACTION)
 - NEW PAVEMENT SHALL BE PLACED IN LIFTS NOT EXCEEDING 3-INCHES (COMPACTED).
 - A TACK COAT SHALL BE APPLIED TO ALL HORIZONTAL AND VERTICAL CONFORM SURFACES PRIOR TO PAVING.
 - AFTER PAVING, APPLY SS1H OIL (OR APPROVED EQUAL) TO ALL HMA SURFACE SEAMS PER MANUFACTURER'S RECOMMENDATIONS.
 - THE DEPARTMENT SHALL PROVIDE ADDITIONAL REQUIREMENTS WHEN TRENCHING IN EXISTING ROADS HAVING CONCRETE STRUCTURAL SECTIONS.
 - T-SECTION WIDTHS SHALL BE INCREASED AS DIRECTED BY THE DEPARTMENT FOR UTILITY PIPES EXCEEDING 36" IN DIAMETER.

TRENCH REPAIR DETAIL STD DWG R-3
NO SCALE

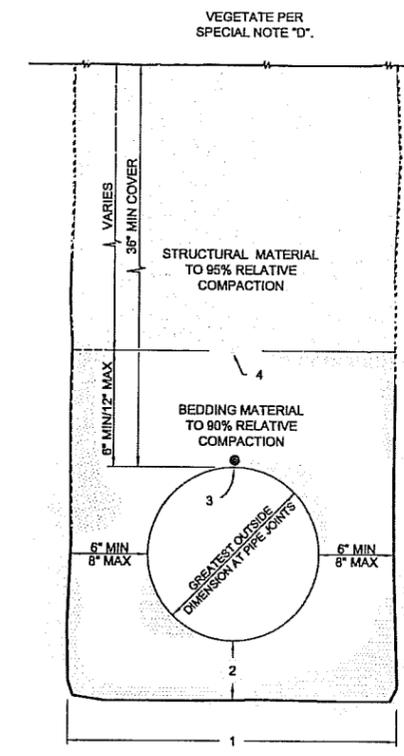


BEDDING MATERIAL		STRUCTURAL MATERIAL	
1"	3"	1"	3"
No. 4	No. 4	No. 4	No. 30
100% - 100%	100% - 100%	35% - 100%	20% - 100%
No. 200	No. 200	No. 200	No. 200
0% - 15%	0% - 15%	0% - 15%	0% - 15%

- NOTES:
- TRENCH WIDTH SHALL BE PIPE DIAMETER PLUS 12" (6" EACH SIDE OF PIPE) FOR PIPES 36" DIAMETER OR LESS, AND PIPE DIAMETER PLUS 16" (8" EACH SIDE) FOR PIPE DIAMETERS GREATER THAN 36".
 - BEDDING MEASUREMENT IS 6" BELOW GREATEST OUTSIDE DIMENSION AT PIPE JOINTS. PIPE SHALL BE BACKFILLED TO THE SPRING LINE AND COMPACTED TO 90% PRIOR TO COMPLETING INITIAL BACKFILL.
 - ROAD STRUCTURAL SECTION SHALL BE BASED ON THE T1 AND R VALUE AT TIME OF CONSTRUCTION. HOT MIX ASPHALT SHALL PER THE DESIGN STANDARDS TO 95% RELATIVE COMPACTION, OVER CLASS II AGGREGATE BASE TO 95% RELATIVE COMPACTION, OVER 12" MINIMUM SUBGRADE TO 95% RELATIVE COMPACTION.
 - FOR WATER, 14-GAUGE INSULATED COPPER TRACER WIRE SHALL BE LAID ATOP ALL PIPES AND SERVICE LATERALS.
 - FOR WATER AND SEWER, 3" WIDE POLYETHYLENE NON-DETECTABLE TAPE MARKED AND COLOR CODED PER THE DESIGN STANDARDS SHALL BE BURIED IN THE TRENCH 12-INCHES ABOVE ALL PIPES AND LATERALS.
 - REFER TO STANDARD DRAWINGS U-3 TO U-3b FOR ADDITIONAL REQUIREMENTS FOR WATER AND SEWER TRENCHES.
 - CONCRETE SLURRY TRENCH BACKFILL SHALL CONFORM TO STATE STANDARD 90-1.01, 18 LBS/CY CEMENTITIOUS MATERIAL (2 SACK), TO SURFACE OF BASE COURSE SECTION. DO NOT PLACE AGGREGATE BASE ABOVE SLURRY BACKFILL.

VALVE ANCHOR & BOX DETAIL STD DWG W-3
NO SCALE

- NOTES:
- CONCRETE THRUST BLOCKS SHALL CONFORM TO STATE STANDARD 90-1.01, 470 LBS/CY CEMENTITIOUS MATERIAL (5 SACK), AND POURED AGAINST UNDISTURBED NATIVE SOIL.
 - VALVES SHALL HAVE NON-RISING STEM, RESILIENT WEDGE, RESILIENT SEAT, AND BE EPOXY COATED.
 - ALL MATERIALS AND INSTALLATION SHALL CONFORM WITH THE APPLICABLE SECTIONS OF THE DESIGN STANDARDS.
 - ALL FITTINGS SHALL BE WRAPPED IN POLYETHYLENE SHEET AND ALL FLANGES AND BOLTS SHALL BE SHIELDED FROM CONCRETE PER THE DESIGN STANDARDS.
 - UNDER NO CIRCUMSTANCES SHALL UTILITY LIDS AND CONCRETE COLLARS BE LOCATED WITHIN CURBS, GUTTERS, SIDEWALKS, DRIVEWAY APRONS, CURB RAMPS, OR CROSS GUTTERS.

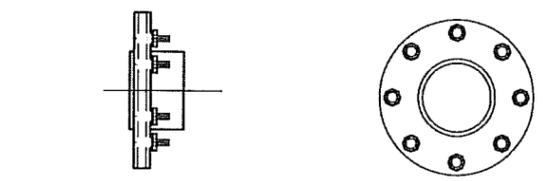


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 - REFER TO STANDARD DRAWINGS U-3 TO U-3b FOR ADDITIONAL REQUIREMENTS FOR WATER AND SEWER TRENCHES.

- SPECIAL NOTES:
- SPECIAL CONSIDERATION SHALL BE TAKEN BY THE DESIGNER TO ENSURE SURFACE DRAINAGE WILL NOT ENTER THE TRENCH.
 - WHEN TRENCHING ON STEEP SLOPES, CUT-OFF WALLS AND/OR PIPE ANCHORS MAY BE REQUIRED BY THE DEPARTMENT AND SHALL BE DETAILED ON THE PLANS.
 - TRENCHING ALIGNMENT SHALL BE DESIGNED TO AVOID DAMAGE TO EXISTING TREES AND THEIR ROOT SYSTEMS. WHEN ADJACENT TO TREES THEN THE TRENCHING RECOMMENDATIONS OF THE PROJECT BOTANIST SHALL BE FOLLOWED.
 - THE UPPER SURFACE SHALL BE SCARIFIED AND REVEGETATED. VEGETATIVE COVER SHALL BE ESTABLISHED PRIOR TO ACCEPTANCE OF WORK.

TRENCH DETAIL OUTSIDE ROADWAY PRISM
STD DWG U-4a
NO SCALE



4" FULL COUPLING (FNPTxFNPT) TYPE 316SS
NO SCALE

COUNTY OF SAN LUIS OBISPO - PUBLIC WORKS DEPARTMENT
LOPEZ WATER TREATMENT PLANT ARROYO GRANDE, CA.
CHEMICAL CONTAINMENT PROJECT
DETAILS

Designer	Date	Drawn By	Revised	Design Engineer	Scale
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