# WEST BAY SAMITARY DISTRICT

SAN MATEO COUNTY

**CALIFORNIA** 

### SAUSAL VISTA PUMP STATION PHASE 1

REPLACEMENT AND CONSTRUCTION OF SANITARY SEWER MAINS AND FORCE MAINS

UNAUTHORIZED CHANGES & USES: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of

Construction contractor agrees that in accordance with generally accepted construction practices, construction contractor will be required to assume sole and complete responsibility for job site conditions during the course of construction of the project, including safety of all persons and property; that this requirement shall be made to apply continuously and not be limited to normal working hours, and construction contractor further agrees to defend, indemnify and hold design professional harmless from any and all liability, real or alleged, in connection with the performance of work on this project, excepting liability arising from the sole negligence of design professional.

### BOARD OF DIRECTORS

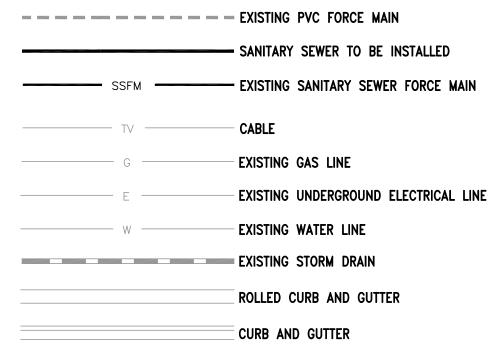
**PRESIDENT** EDWARD P. MORITZ FRAN DEHN SECRETARY RONALD W. SHEPHERD DIRECTOR DAVID WALKER DIRECTOR ROY THIELE-SARDINA **DIRECTOR** 

### INDEX OF DRAWINGS

### SHEET # DESCRIPTION COVER SHEET PLAN & PROFILE - GEORGIA LANE STA: 0+00 - 4+50PLAN & PROFILE - GEORGIA LANE STA: 4+50 - 10+50 PLAN & PROFILE - GEORGIA LANE/ PORTOLA ROAD STA: 10+50 - 14+50PLAN & PROFILE - PORTOLA ROAD STA: 14+50 - 20+15.79 DETAIL SHEET

DETAIL SHEET

### LEGEND

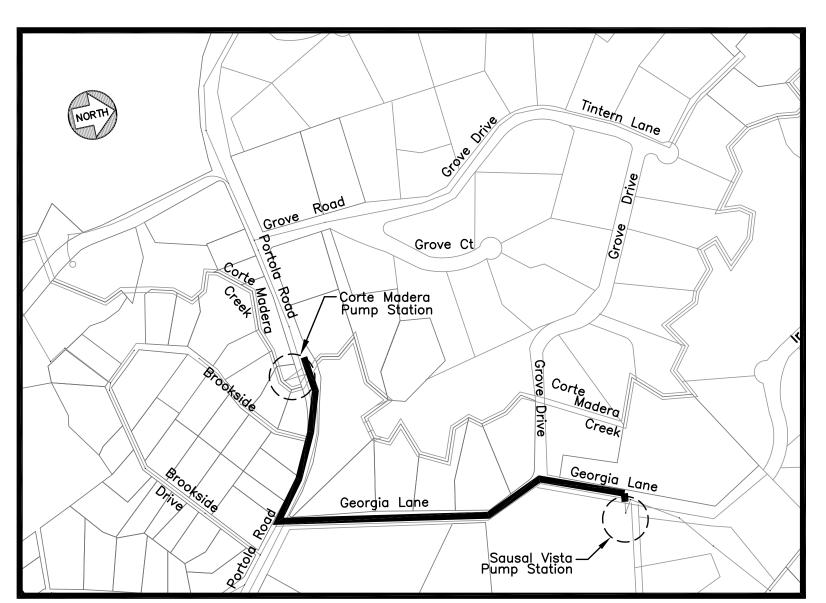


LIP EXISTING JOINT POLE POWER POLE **EXISTING GAS VALVE EXISTING WATER VALVE EXISTING WATER METER EXISTING CLEAN OUT EXISTING FIRE HYDRANT** EXISTING SEWER / STORM DRAIN MANHOLE EXISTING ELECTRICAL PULL BOX

> **EXISTING CATCH BASIN** TRAFFIC SIGN

# O/ FREMONT

REGIONAL LOCATION NTS



PORTOLA VALLEY VICINITY **LOCATION NTS** 

### WEST BAY SANITARY DISTRICT SAN MATEO COUNTY

PROJECT No. 1758.1

### **SAUSAL VISTA PUMP STATION PHASE 1 COVER SHEET**

2. CONTRACTOR AGREES THAT THEY SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. INCLUDING SAFETY OF ALL PERSONS AND PROPERTY: THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

**GENERAL NOTES:** 

SPECIFICATIONS.

1. THE FOLLOWING NOTES ARE ESTABLISHED MERELY TO GUIDE THE CONTRACTOR AS TO THE GENERAL ITEMS OF WORK INVOLVED AND ARE NOT INTENDED TO COVER COMPLETE SCOPE OF WORK. THE CONTRACTOR SHALL COMPLETE ALL WORK AS PER CONSTRUCTION PLANS AND

3. ALL SANITARY SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS, THE SPECIAL TECHNICAL PROVISIONS AND THE STANDARD SPECIFICATIONS OF THE WEST BAY SANITARY DISTRICT. ALL WORK NOT SPECIFICALLY COVERED IN THE STANDARD SPECIFICATIONS OF WEST BAY SANITARY DISTRICT AND THE SPECIAL TECHNICAL PROVISIONS FOR THESE IMPROVEMENTS SHALL BE DONE IN ACCORDANCE WITH THE STATE OF CALIFORNIA. DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, LATEST EDITION.

4. THE WORK SHOWN ON THESE PLANS IS WITHIN THE JURISDICTION OF THE TOWN OF PORTOLA VALLEY, AND SHALL BE PERFORMED IN ACCORDANCE WITH THE PROVISIONS AND THE REQUIREMENTS OF THE ENCROACHMENT PERMIT.

5. THE LOCATIONS AND TYPES OF EXISTING UTILITIES SHOWN ON THE IMPROVEMENT PLANS ARE BASED ON INFORMATION FURNISHED BY SERVICING AGENCIES AND IS TO BE SUPPLEMENTED BY ACTUAL FIELD INVESTIGATION AND VERIFICATIONS BY CONTRACTOR. ATTENTION IS DIRECTED TO VERIFICATIONS OF DEPTHS AND EXACT LOCATIONS OF EXISTING SERVICES WHETHER SHOWN ON THE PLAN OR NOT AND THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PRESERVE AND AVOID DAMAGES TO EXISTING UTILITIES ENCOUNTERED. NOTE: EXISTING UTILITY SERVICES TO HOUSES ARE NOT SHOWN ON THE PLANS. CONTRACTOR SHALL NOTIFY PG&E, AT&T, CALIFORNIA WATER AND UNDERGROUND SERVICE ALERT (USA) AT (800) 642-2444, PRIOR TO ANY FIELD INVESTIGATION.

6. BEDDING MATERIAL SHALL BE AN IMPORTED VIRGIN GRANULAR MATERIAL FREE FROM VEGETABLE MATTER AND OTHER ORGANIC SUBSTANCES AND SHALL BE OF SUCH NATURE THAT IT CAN BE COMPACTED READILY UNDER WATERING, ROLLING AND TAMPING TO FORM A FIRM AND STABLE BASE. BEDDING MATERIAL SHALL CONFORM TO THE GRADATION REQUIREMENTS SHOWN ON THE DETAIL DRAWING.

7. RELATIVE COMPACTION AND IN-PLACE DENSITY SHALL BE DETERMINED AS DEFINED BY THE TEST METHOD OF ASTM D1557.

8. EXISTING FLOWS MUST BE MAINTAINED BY CONTRACTOR AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY PROPERTY OWNERS OF ANY INTERRUPTION OF SEWER SERVICES PRIOR TO ANY WORK ON EXISTING SEWER PIPES. SEWAGE FLOWS SHALL BE MAINTAINED BY PUMPING.

9. ALL EXISTING IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO LANDSCAPING, DRIVEWAYS, CURB. GUTTER. SIDEWALK. CULVERTS. DRAINS. STRIPING (PAINTED OR THERMOPLASTIC) AND MONUMENTS. SHALL BE RESTORED TO THE CONDITION IN WHICH THEY WERE OR BETTER BEFORE THE EXCAVATION WAS MADE. PAYMENT FOR RESTORATION OF EXISTING IMPROVEMENTS TO THEIR ORIGINAL CONDITION WILL NOT BE MADE AND SHALL BE CONSIDERED AS INCLUDED IN THE VARIOUS CONTRACT ITEMS OF WORK INVOLVED.

10. THE CONTRACTOR SHALL COMPLY WITH ALL RELEVANT PROVISIONS OF FEDERAL, STATE AND LOCAL CODES AND REGULATIONS IN REGARD TO TRAFFIC CONTROL. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN PRIOR TO THE START OF WORK TO BE APPROVED BY THE DISTRICT AND THE LOCAL JURISDICTION.

11. THE CONTRACTOR SHALL CONDUCT THEIR OPERATION AS TO OFFER THE LEAST POSSIBLE OBSTRUCTION AND INCONVENIENCE TO THE PUBLIC. THROUGHOUT THE PERFORMANCE OF THE WORK, OR IN CONNECTION TO THIS CONTRACT, THE CONTRACTOR SHALL CONSTRUCT AND ADEQUATELY MAINTAIN SUITABLE AND SAFE CROSSINGS OVER TRENCHES, DRIVEWAY ACCESS AND SUCH DETOURS AS ARE NECESSARY TO CARE FOR PUBLIC PEDESTRIAN TRAFFIC.

12. CONTRACTOR SHALL CONFORM TO ALL APPLICABLE OSHA RULES, REGULATIONS, AND ORDERS ESTABLISHED BY FEDERAL AND STATE AGENCIES BEFORE ENTERING SANITARY SEWER

13. IF THE CONTRACTOR PLANS TO USE MACHINERY WITH TRACKS. PLYWOOD SHALL BE PLACED IN FRONT AND/OR BACK OF THE MACHINE (DEPENDING ON THE TRAVEL DIRECTION), SO THAT SURFACE DESTRUCTION IS AVOIDED. ANY SURFACE DESTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE DISTRICT, TO THE SATISFACTION OF THE LOCAL JURISDICTION.

14. THE REPLACEMENT OF SEWER MAINS SHALL BE CONSTRUCTED AT THE DESIGNED HORIZONTAL ALIGNMENT AND THE PROPOSED GRADE (DEPTH) AS SHOWN ON THE PLANS. THE EXISTING SEWER MAINS SHALL BE USED AS STATIONING CONTROL LINE. THE CONTRACTOR SHOULD BE ALERTED TO THE NEED FOR EXCAVATION BELOW EXISTING PIPE INVERT FOR PLACEMENT OF BEDDING MATERIALS AS SHOWN ON THE DETAIL DRAWINGS.

15. CONCRETE FOR MANHOLES SHALL MEET THE REQUIREMENTS OF CLASS 1 CONCRETE AS DEFINED IN CALTRANS STANDARD SPECIFICATIONS, LATEST EDITION.

16. CONTRACTOR SHALL PROVIDE PUMPS OR OTHER MEANS TO PREVENT SEWER WASTE BACKUP DUE TO THEIR WORK ON THE EXISTING SEWERS. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP AND DAMAGES CAUSED BY THEIR NEGLIGENCE, AND SHALL PAY ANY FINES DUE TO THEIR NEGLIGENCE.

17. PRIOR TO THE START OF SEWER CONSTRUCTION, THE CONTRACTOR SHALL PERFORM BYPASSING OPERATIONS. CONSTRUCTION CAN NOT BEGIN UNTIL BYPASSING OPERATIONS ARE APPROVED BY THE DISTRICT.

18. THE CONTRACTOR SHALL AT ALL TIMES HAVE AT THE JOB SITE SUFFICIENT PUMPING MACHINERY READY FOR IMMEDIATE USE. THE TRENCHES AND EXCAVATIONS SHALL BE KEPT ENTIRELY FREE OF WATER WHILE CONCRETE IS BEING POURED OR PIPE IS BEING LAID AND UNTIL CONCRETE OR MORTAR HAS SET HARD. WATER SHALL BE DISPOSED OF IN SUCH A MANNER AS WILL NOT CAUSE INJURY TO PUBLIC OR PRIVATE PROPERTY, NOR BE A MENACE TO PUBLIC HEALTH.

19. ALL PROPERTY LINES SHOWN ARE APPROXIMATED FROM ASSESSORS PARCEL MAPS OR FROM RECORD INFORMATION, AND THEIR LOCATION MAY NOT BE EXACT. THE PROPERTY LINES SHALL BE USED AS REFERENCE TO LOCATE SERVICE LATERAL CONNECTION TO EACH PROPERTY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE THE EXACT LOCATION OF EACH PROPERTY LATERAL FOR CONNECTION.

20. THE NUMBER OF LATERALS SHOWN ON THE PLANS IS BASED ON T.V. INVESTIGATION LOGS. WHICH MAY INCLUDE BOTH LIVE AND DEAD LATERALS. FINAL NUMBERS TO BE USED FOR PAYMENT IS THE NUMBER OF LIVE LATERALS CONNECTED. THE CONTRACTOR SHALL SAWCUT THE ABANDONED LATERALS AT THE EDGE OF THE TRENCH AND PLUG THEM IN ACCORDANCE WITH THE DISTRICT'S STANDARDS.

3/25/2015 DATE: SCALE: AS NOTED RJL**DESIGNED:** DRAWN:  $\mathbf{JJF}$ CHECKED: RJLPROJ. ENGR: RJL 650)344-9901 • Fax (650)344-9920 • www.freyerlaureta.com APP'D BY DATE DESCRIPTION OF REVISIONS

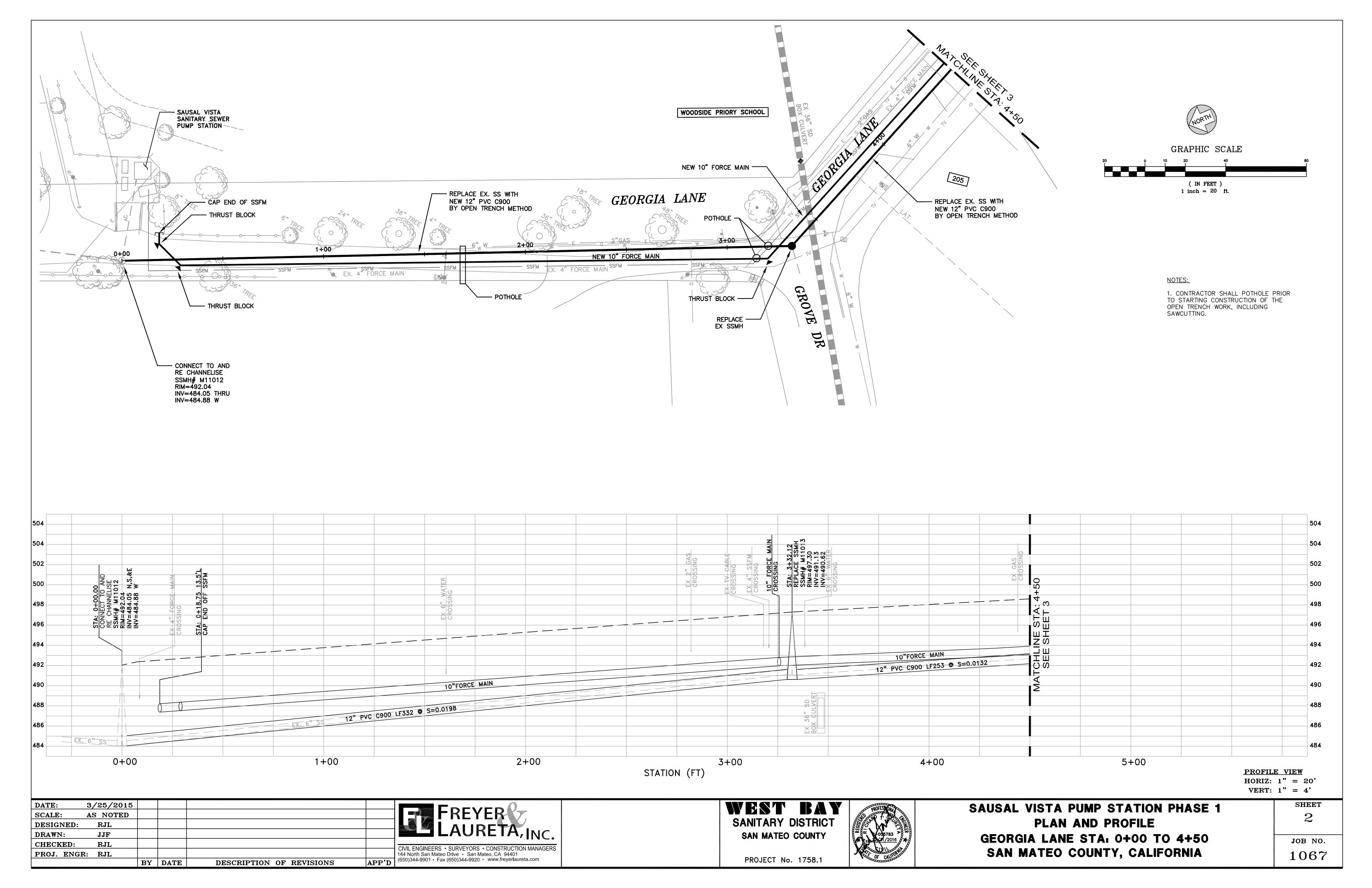
CIVIL ENGINEERS • SURVEYORS • CONSTRUCTION MANAGERS 44 North San Mateo Drive • San Mateo, CA 94401

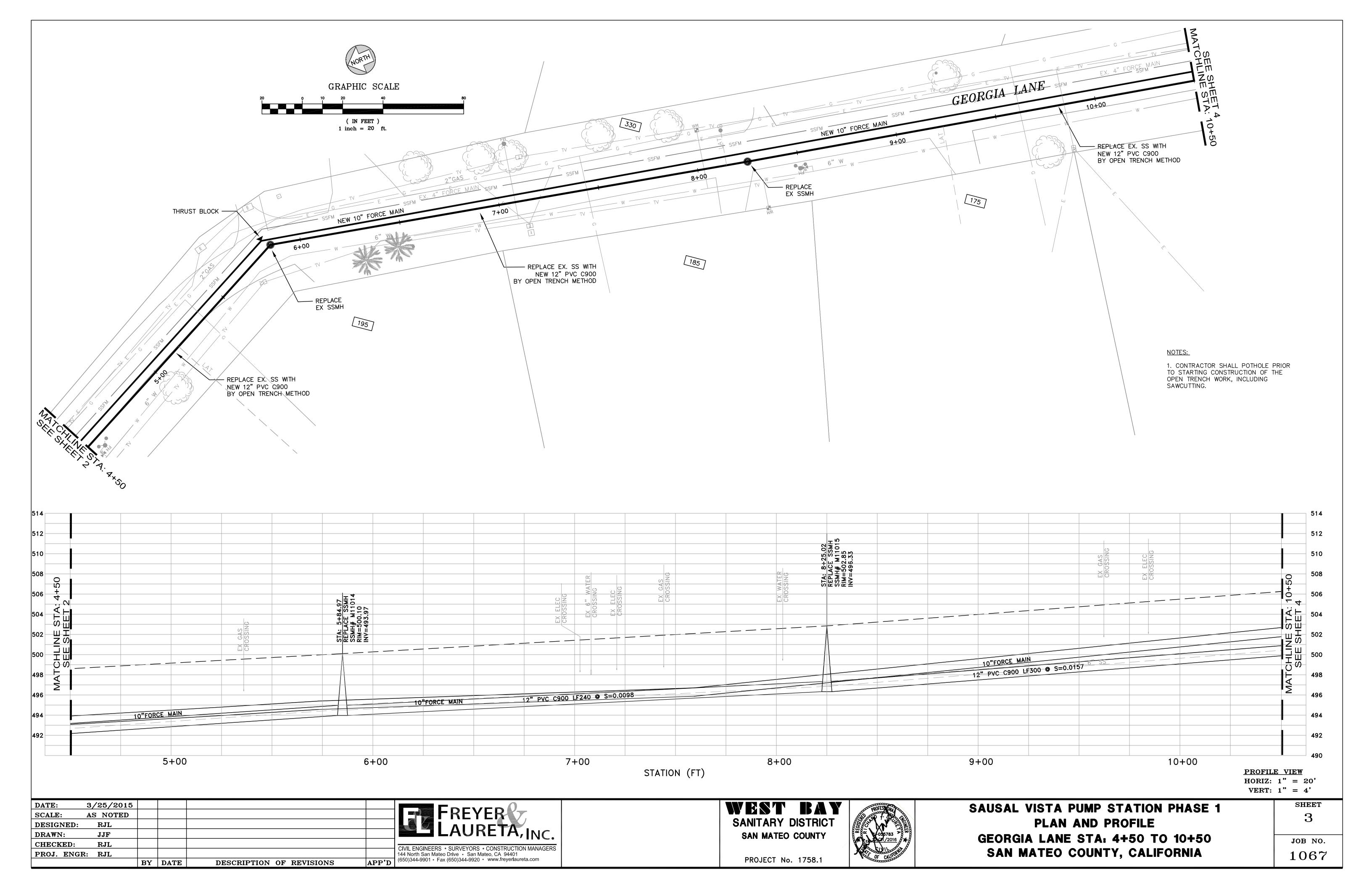
SAN MATEO COUNTY, CALIFORNIA

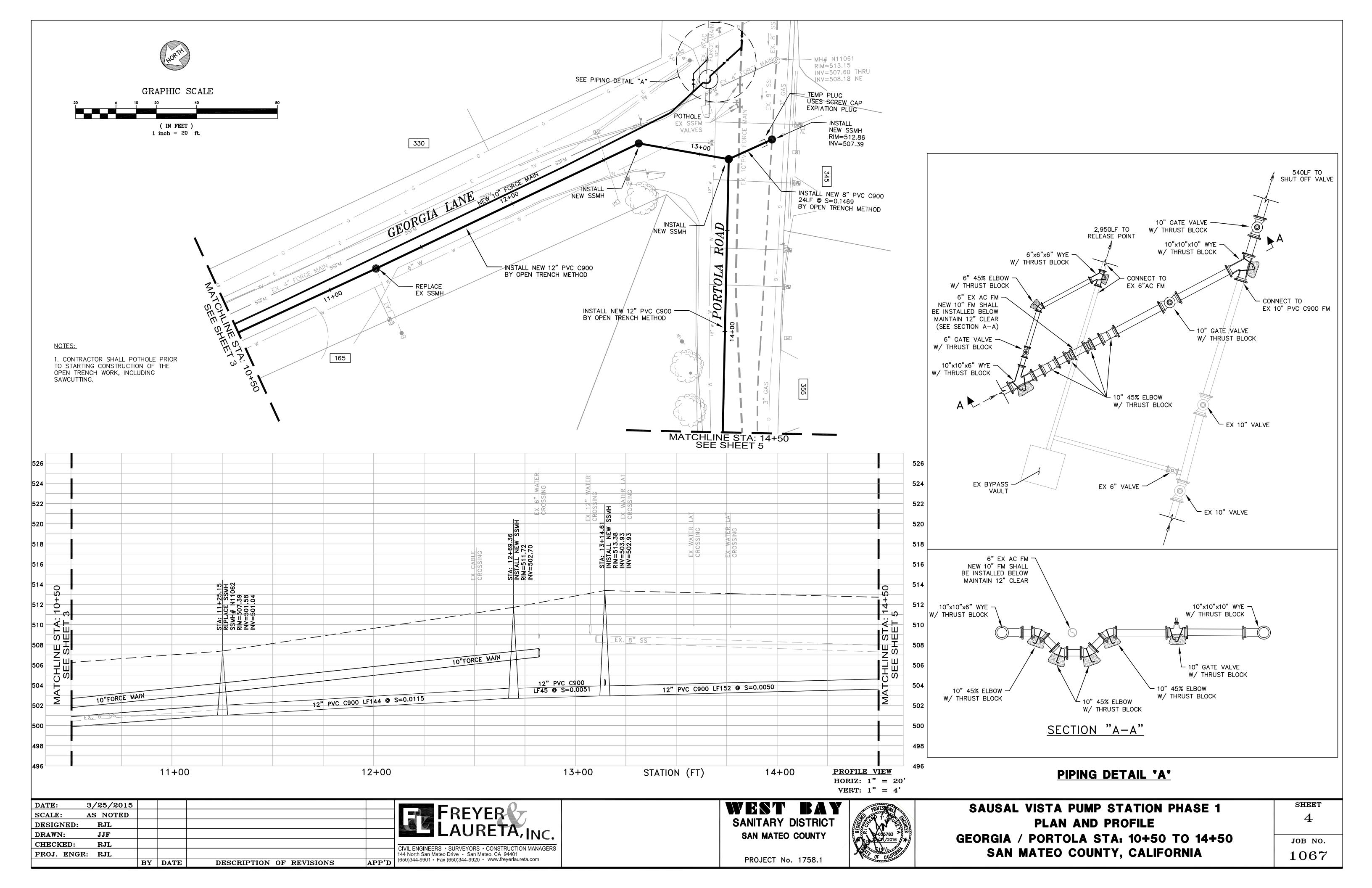
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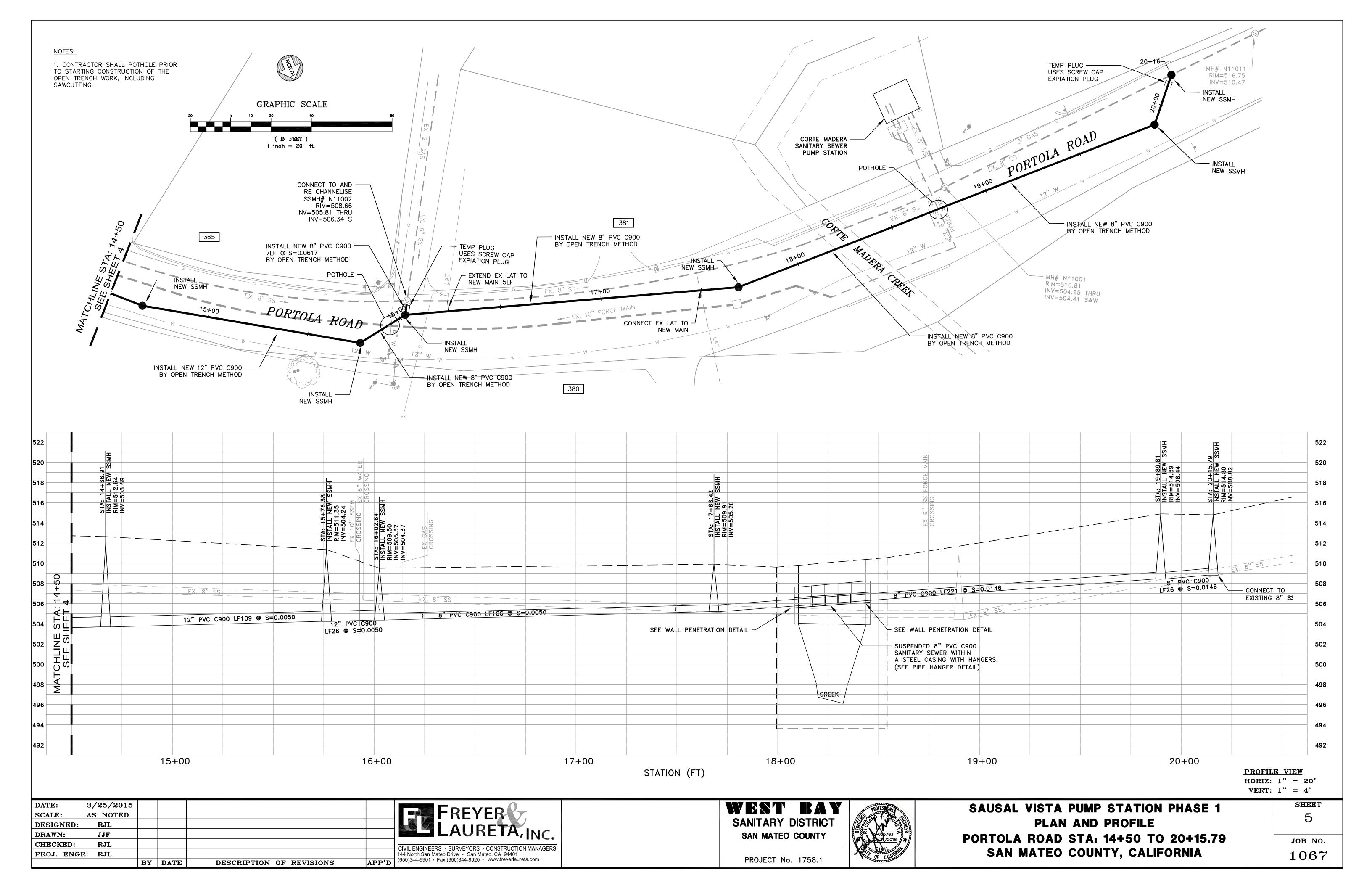
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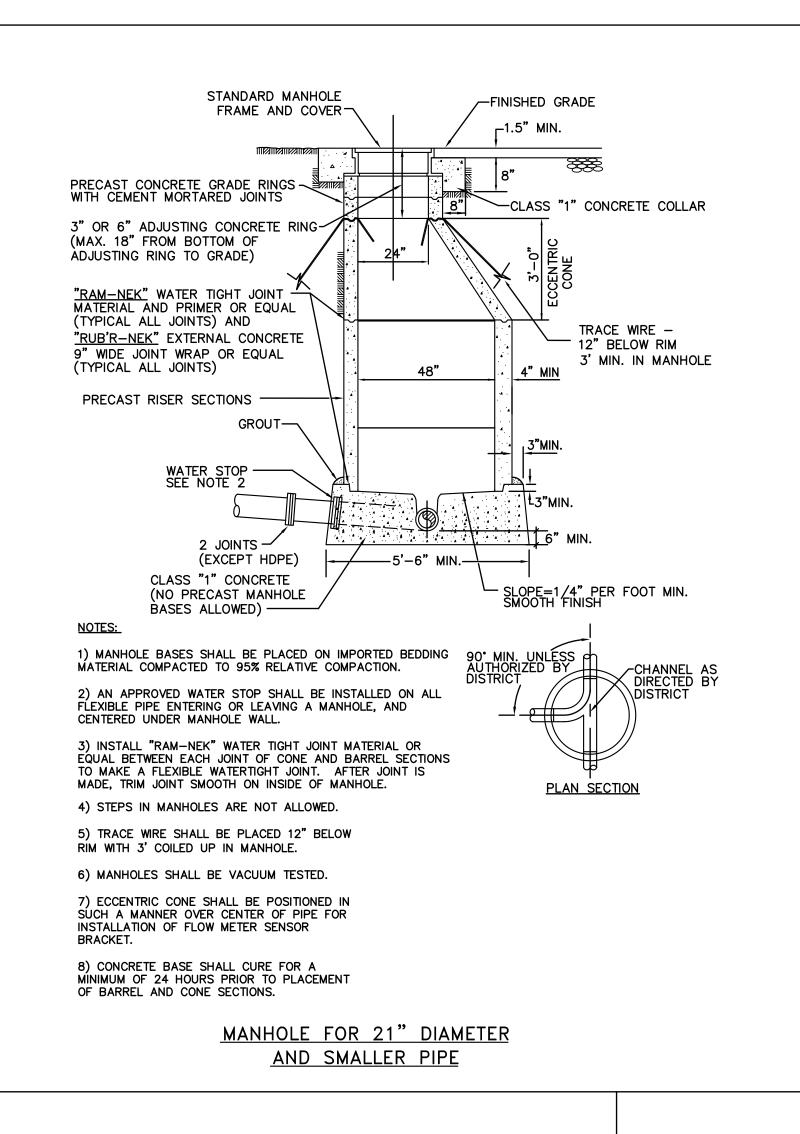
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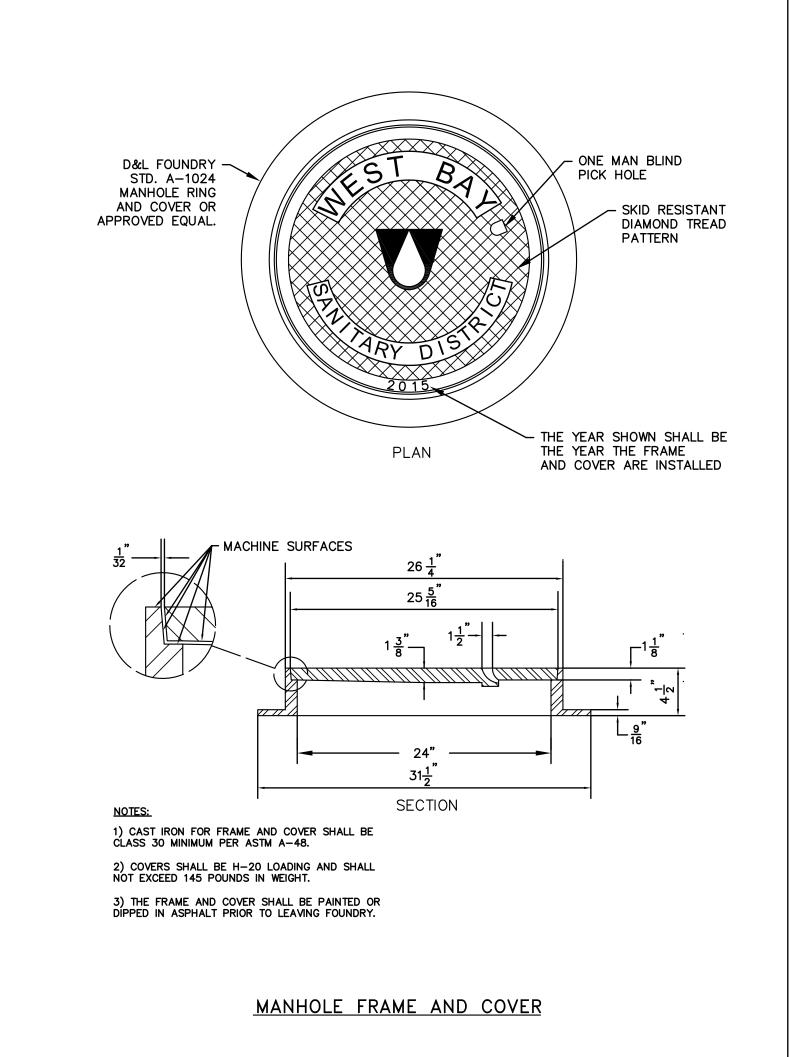


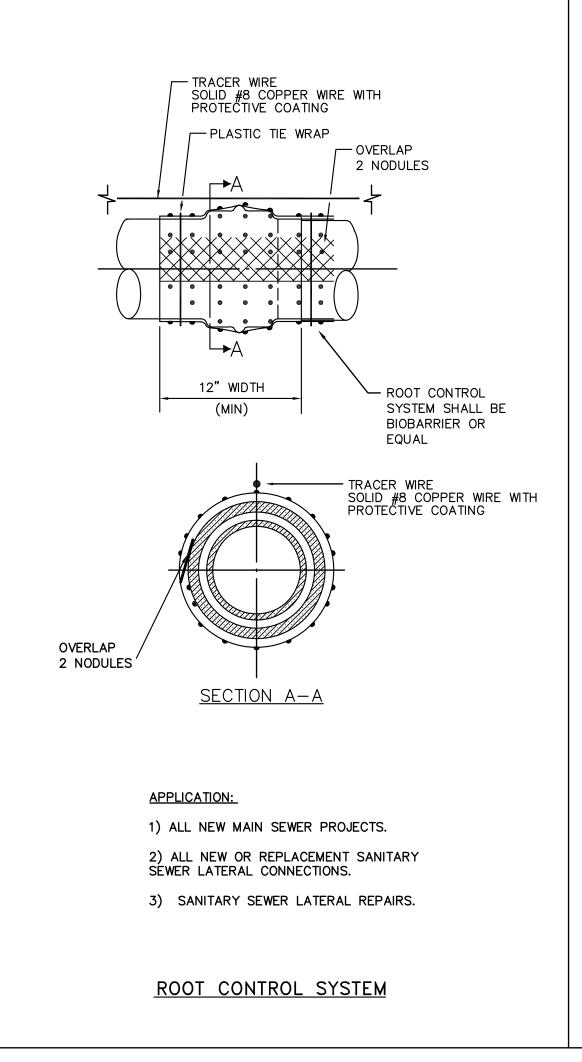


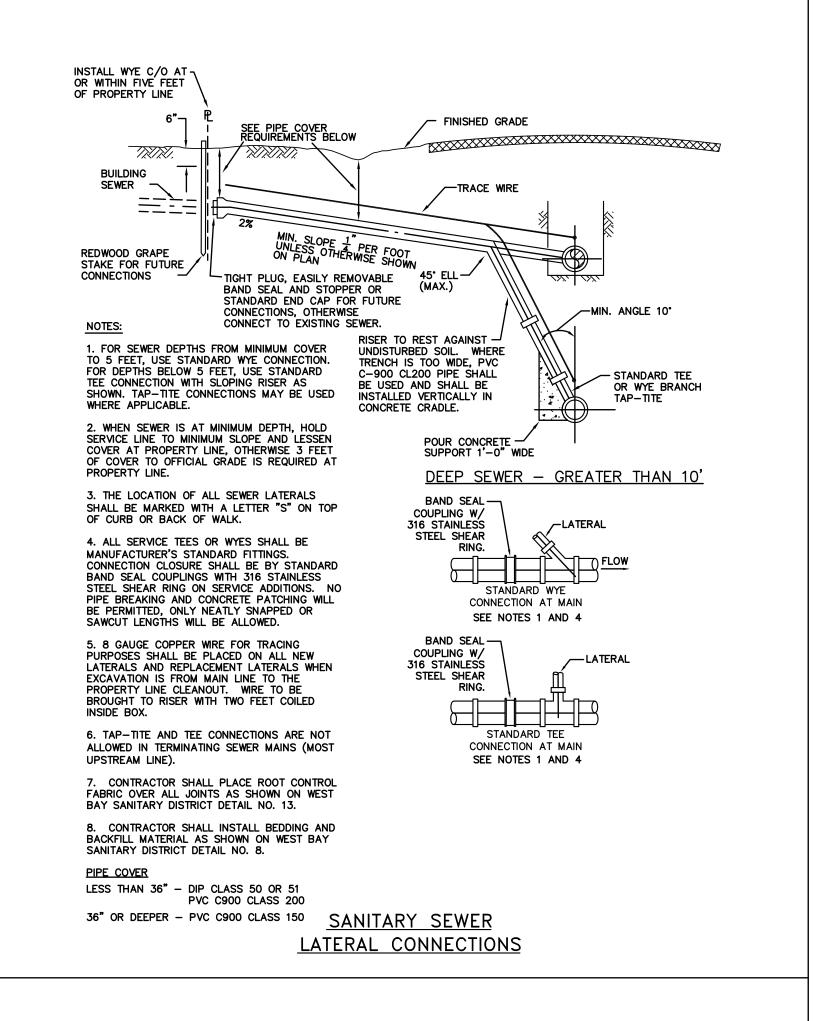


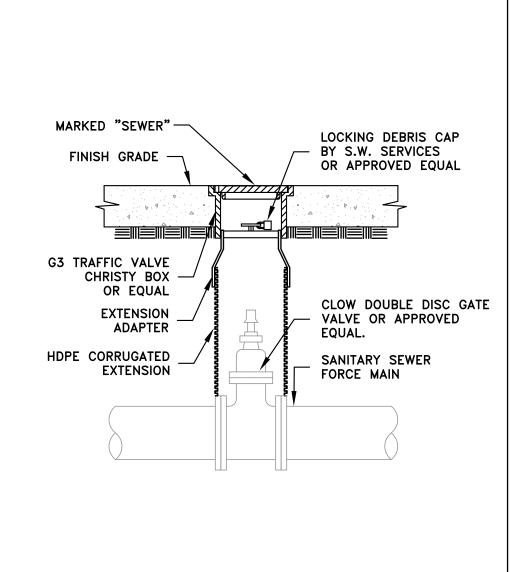




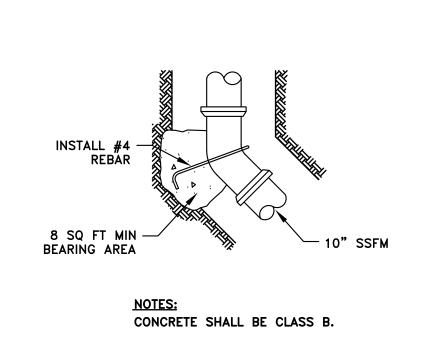






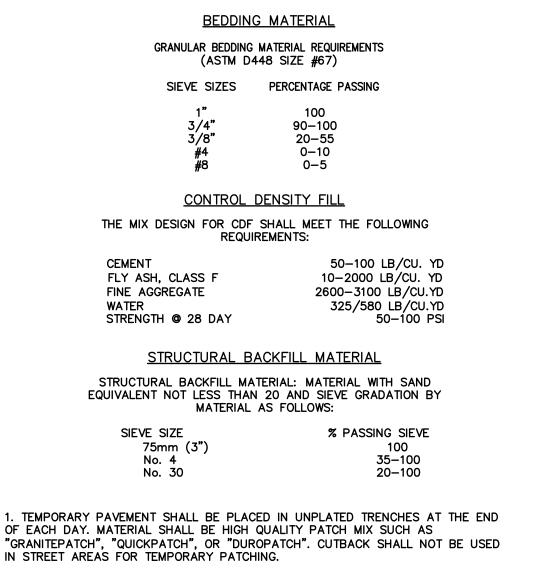


VALVE COVER



THRUST BLOCK

SAW CUT FULL DEPTH OF EXISTING PAVEMENT REMOVE AND REPLACE FULL AND APPLY TACK COAT TO EDGES PRIOR TO REPLACEMENT OF PAVEMENT (TYP) --3" OF  $\frac{1}{2}$ "MIX TYPE A AC  $\longrightarrow$  9" OF  $\frac{3}{4}$  MIX STRUCTURAL BACKFILL TO BE COMPACTED TO 95% RELATIVE COMPACTION OR CONTROLLED DENSITY FILL BEDDING MATERIAL TO BE COMPACTED TO 90% RELATIVE COMPACTION. - TRACER WIRE SOLID #8 COPPER WIRE WITH PROTECTIVE COATING 8" MAX PIPE O.D. FULL DEPTH AC PAVEMENT, AS SHOWN OR MATCH EXISTING, BUT SHALL NOT BE LESS THAN EXISITNG EXISTING PAVEMENT SECTION.



UTILITY TRENCH-TOWN OF PORTOLA VALLEY-RIGHT OF WAY (MODIFIED PER TOWN OF PORTOLA VALLEY STANDARDS)

2. PERMANENT SURFACE RESTORATION SHALL BE INSTALLED NO SOONER THAN 10 DAYS AND NO MORE THAN 25 WORKING DAYS AFTER TEMPORARY SURFACE IS

DATE:	3/25/2015						
SCALE:	AS NOTED					FREYER	
DESIGNED:	RJL						
DRAWN:	JJF					LAURETA, INC.	
CHECKED:	RJL					CIVIL ENGINEERS • SURVEYORS • CONSTRUCTION MANAGERS	
PROJ. ENGR	: RJL					144 North San Mateo Drive • San Mateo, CA 94401	
		BY	DATE	DESCRIPTION OF REVISI	ONS APP'D	(650)344-9901 • Fax (650)344-9920 • www.freyerlaureta.com	

SANITARY DISTRICT
SAN MATEO COUNTY

PROJECT No. 1758.1



FIRST PUT IN PLACE.

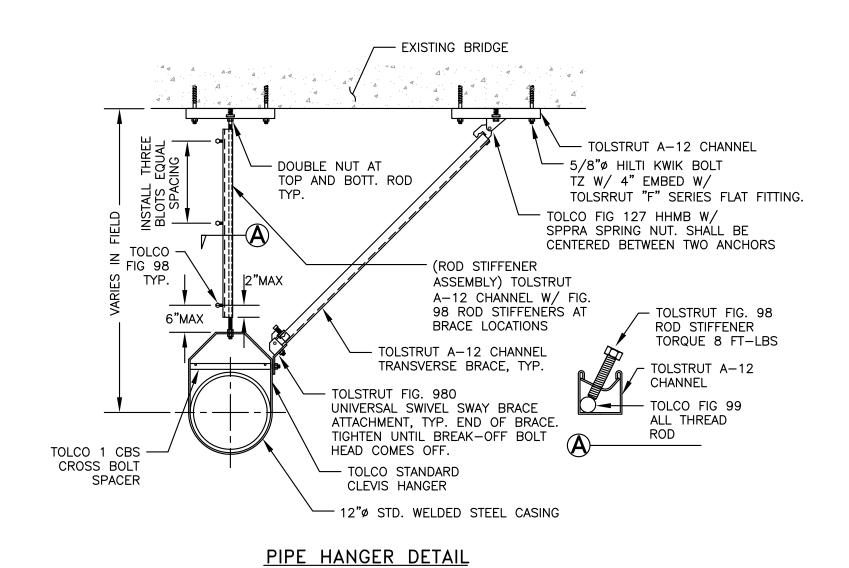
## SAUSAL VISTA PUMP STATION PHASE 1

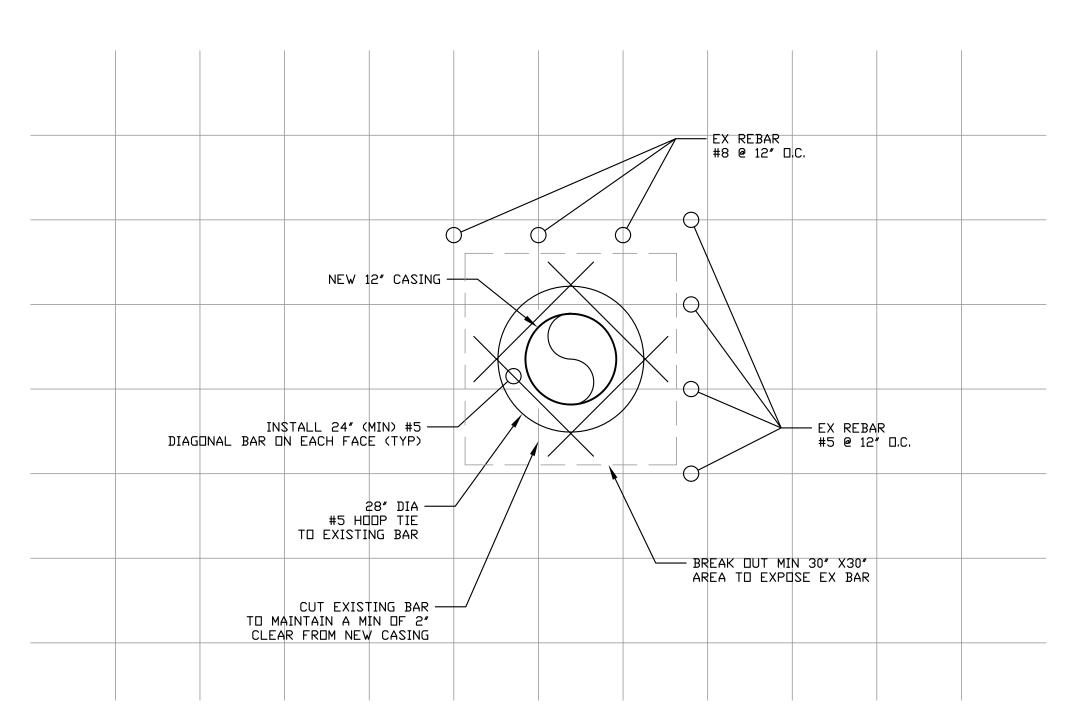
DETAIL SHEET
SAN MATEO COUNTY, CALIFORNIA

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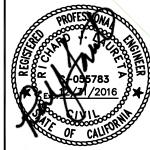


WALL PENETRATION DETAIL

DATE:	3/25/2015					
SCALE:	AS NOTED					FREYER
DESIGNED:	RJL					
DRAWN:	JJF					LAURETA, INC.
CHECKED:	RJL					CIVIL ENGINEERS • SURVEYORS • CONSTRUCTION MANAGERS
PROJ. ENGR	R: RJL					144 North Can Matas Drive Can Matas CA 04404
		BY	DATE	DESCRIPTION OF REVISIONS	APP'D	(650)344-9901 • Fax (650)344-9920 • www.freyerlaureta.com



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SAUSAL VISTA PUMP STATION PHASE 1
DETAIL SHEET
SAN MATEO COUNTY, CALIFORNIA