

# WEST BAY SANITARY DISTRICT

## SAN MATEO COUNTY

### NORTH BAY ROAD AND RINGWOOD AVENUE

#### REPLACEMENT AND CONSTRUCTION OF SANITARY SEWER MAINS

#### GENERAL NOTES:

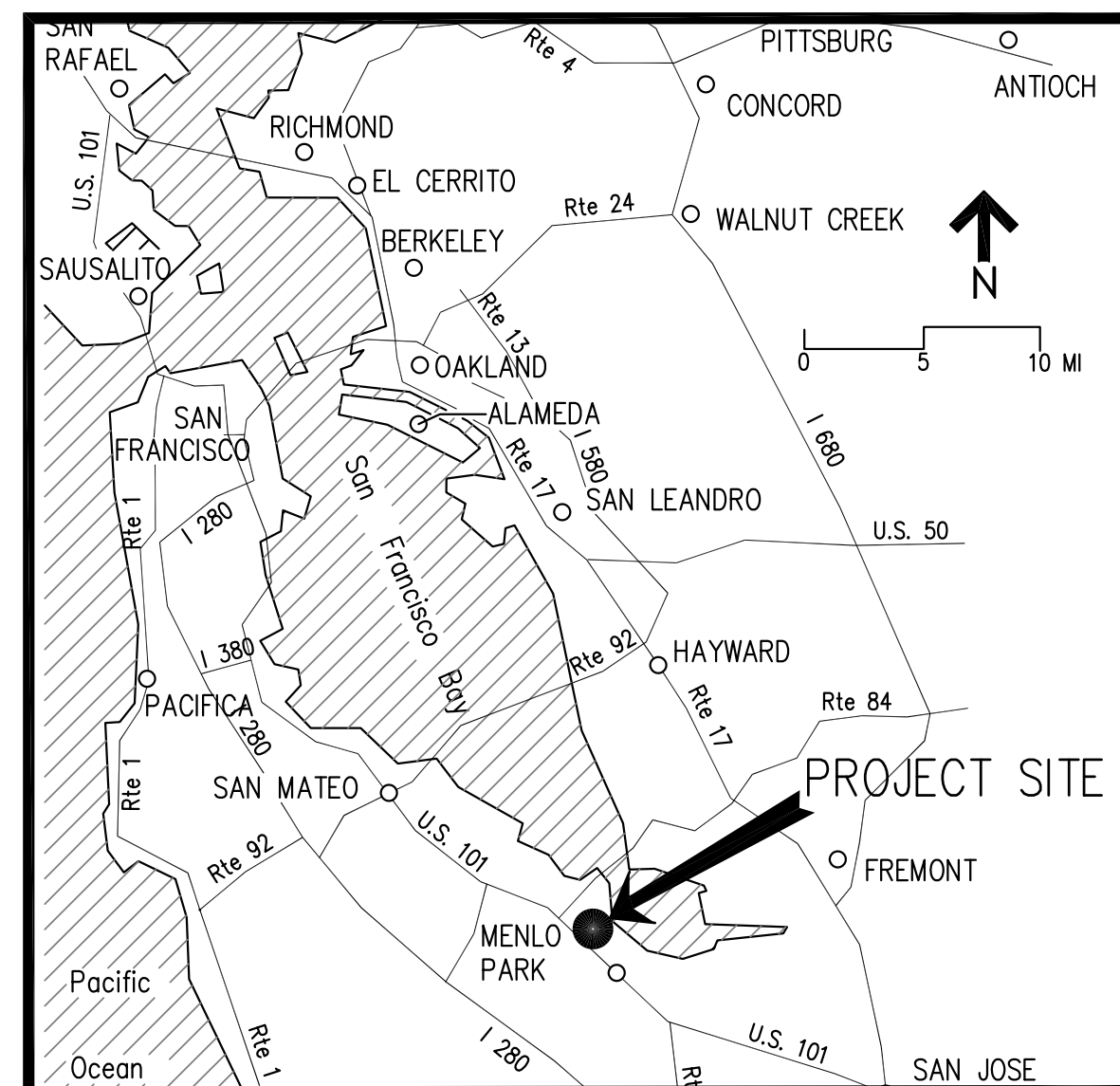
1. THE FOLLOWING NOTES ARE ESTABLISHED MERELY TO GUIDE THE CONTRACTOR AS TO THE GENERAL ITEMS OF WORK INVOLVED AND ARE NOT INTENDED TO COVER COMPLETE SCOPE OF WORK. THE CONTRACTOR SHALL COMPLETE ALL WORK AS PER CONSTRUCTION PLANS AND SPECIFICATIONS.
2. CONTRACTOR AGREES THAT THEY SHALL ASSUME SOLE AND 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.
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 CITY OF MENLO PARK AND UNINCORPORATED SAN MATEO COUNTY, AND SHALL BE PERFORMED IN ACCORDANCE WITH THE PROVISIONS AND THE REQUIREMENTS OF THE ENCROACHMENT PERMITS.
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, COMCAST, SAN FRANCISCO PUBLIC UTILITIES COMMISSION, CAL WATER, CITY OF MENLO PARK 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 MANHOLES.
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.
21. CONTRACTOR SHALL BE AWARE OF SURROUNDINGS AND BE CAUTIOUS WHEN WORKING NEAR OVERHEAD LINES

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 these plans.

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.

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#### REGIONAL LOCATION NTS

#### LEGEND

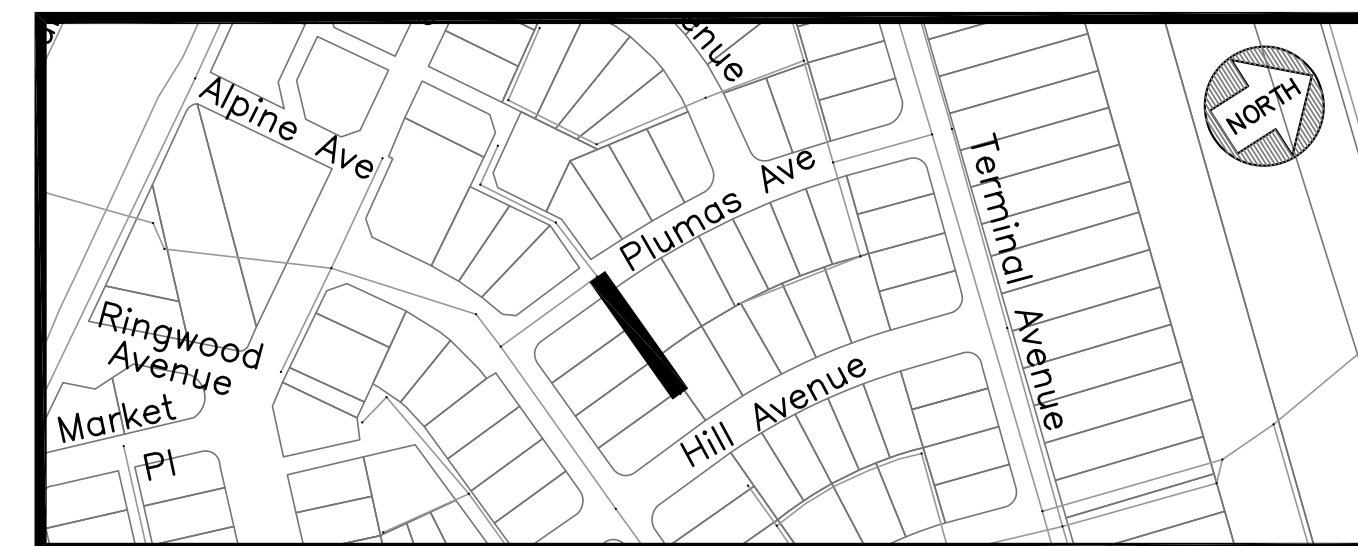
	SANITARY SEWER TO BE INSTALLED		EXISTING JOINT POLE/POWER POLE
	EXISTING SANITARY SEWER		EXISTING GAS VALVE
	EXISTING LATERAL		EXISTING WATER VALVE
	SANITARY SEWER EASEMENT		EXISTING WATER METER
	EXISTING GAS LINE		EXISTING CLEAN OUT
	EXISTING ELECTRICAL LINE OVER HEAD		EXISTING FIRE HYDRANT
	EXISTING WATER LINE		EXISTING SEWER/ STORM DRAIN MANHOLE
	EXISTING ELECTRICAL LINE		EXISTING ELECTRICAL PULL BOX
	EXISTING STORM DRAIN		EXISTING CATCH BASIN
	EXISTING COMMUNICATION LINE		TRAFFIC SIGN
	EXISTING CATV LINE		EXISTING BUILDING/STRUCTURE
	EXISTING ELECTRICAL/COMM LINE OVER HEAD		EXISTING MONUMENT
	EXISTING ELECTRICAL/CATV LINE OVER HEAD		ROLLED CURB AND GUTTER
	EXISTING ELECTRICAL/COMM/CATV LINE OVER HEAD		CURB AND GUTTER
	ABANDONED WATER LINE		
	PIPE BURSTING PIT		



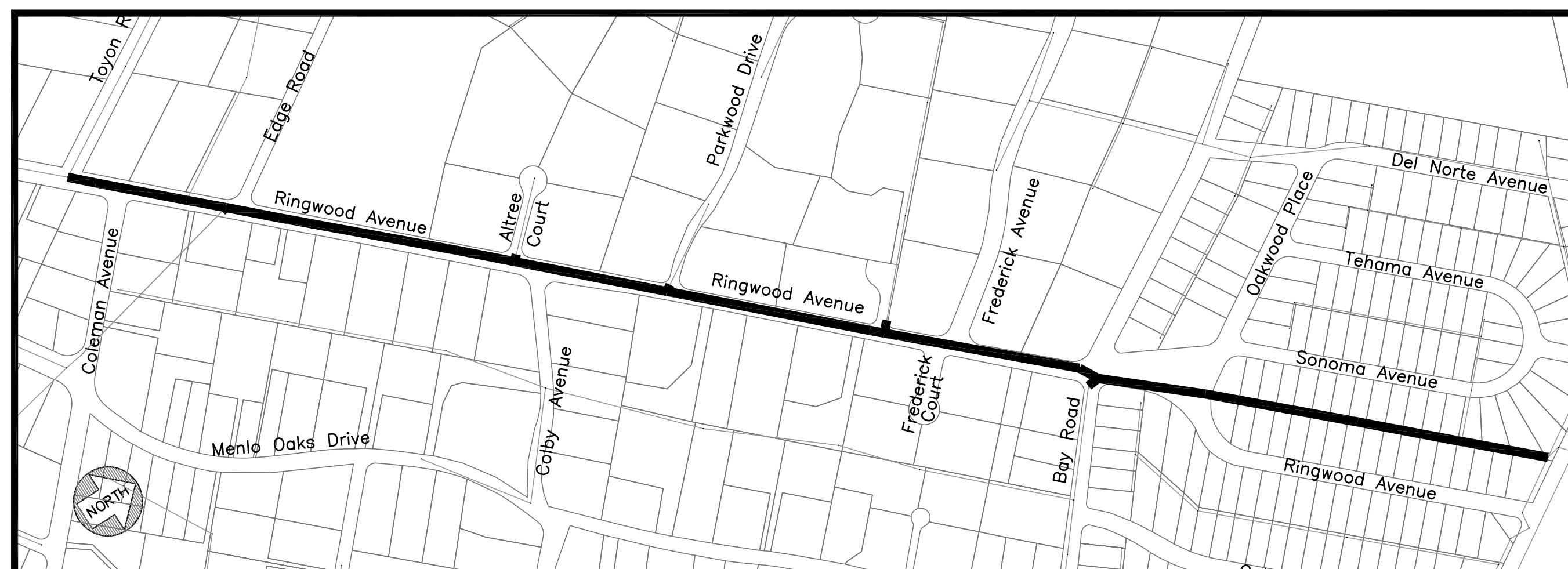
MENLO PARK  
VICINITY LOCATION NTS



MENLO PARK  
VICINITY LOCATION NTS



MENLO PARK  
VICINITY LOCATION NTS



UNINCORPORATED SAN MATEO COUNTY & MENLO PARK  
VICINITY LOCATION NTS

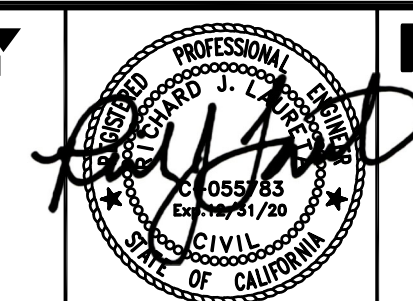
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DESIGNED:	LFH & FYM		
DRAWN:	FYM		
CHECKED:	LFH		
PROJ. ENGR:	RJL		
BY	DATE	DESCRIPTION OF REVISIONS	APP'D

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**WEST BAY**  
SANITARY DISTRICT  
SAN MATEO COUNTY

PROJECT No. 1761.5



**NORTH BAY ROAD AND RINGWOOD AVENUE**  
**COVER SHEET**  
**MENLO PARK, CALIFORNIA**

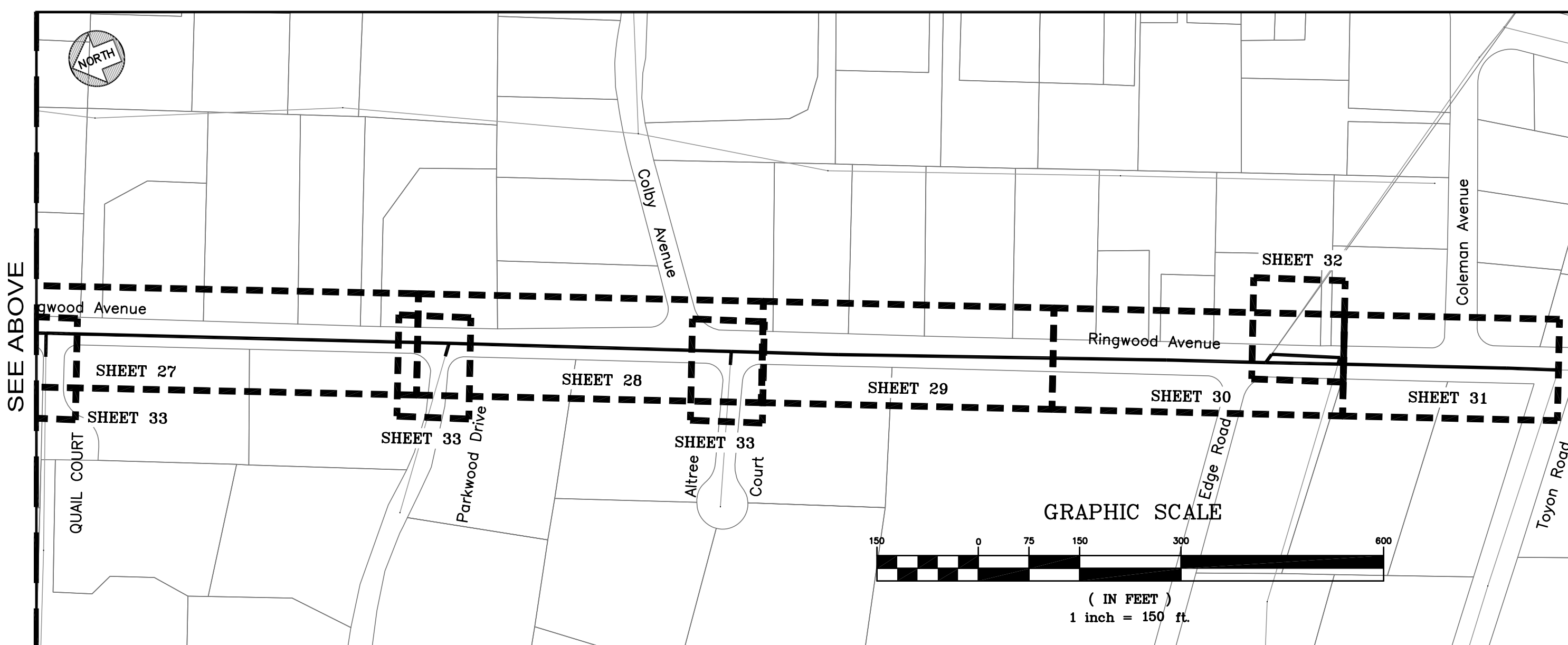
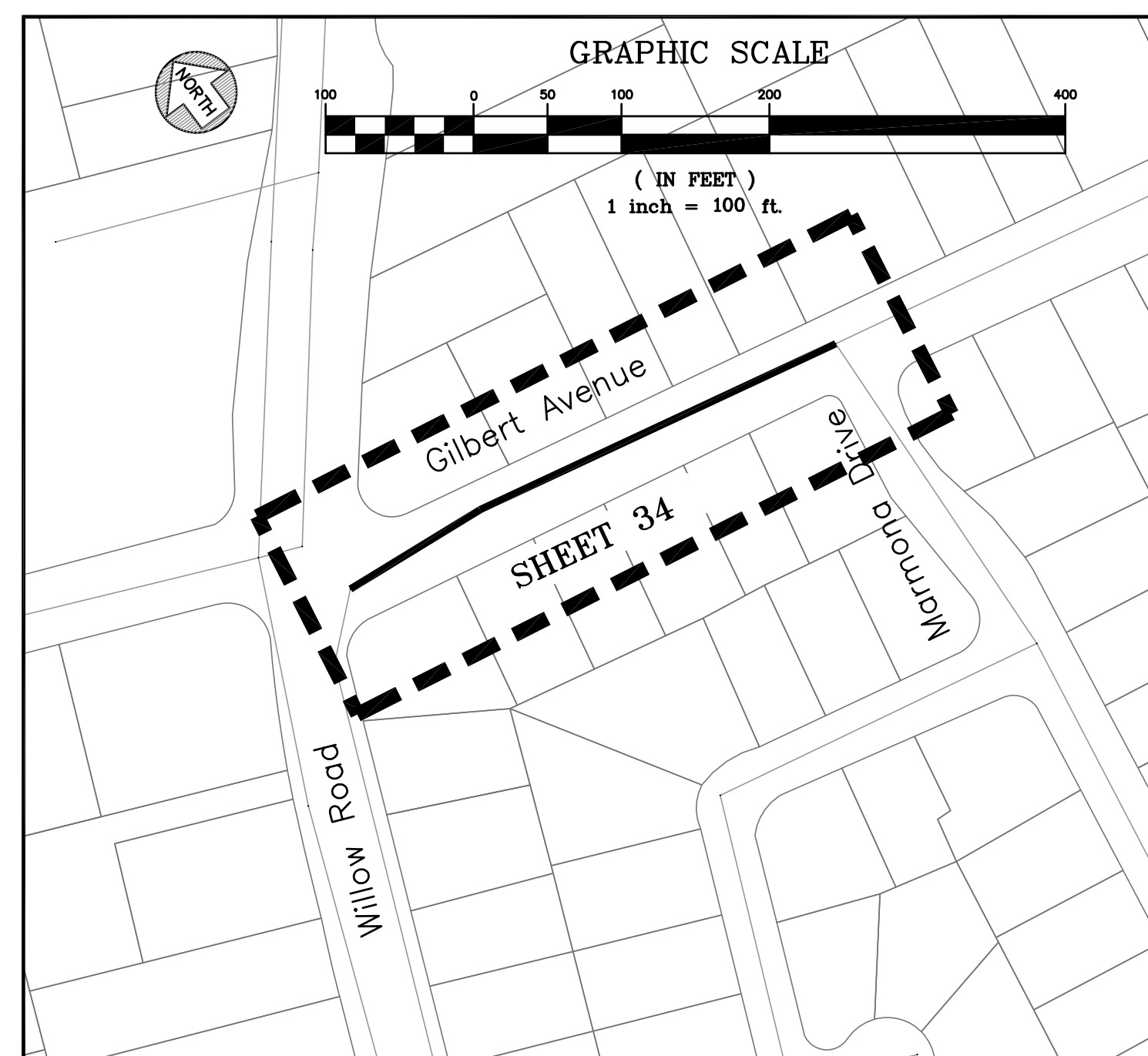
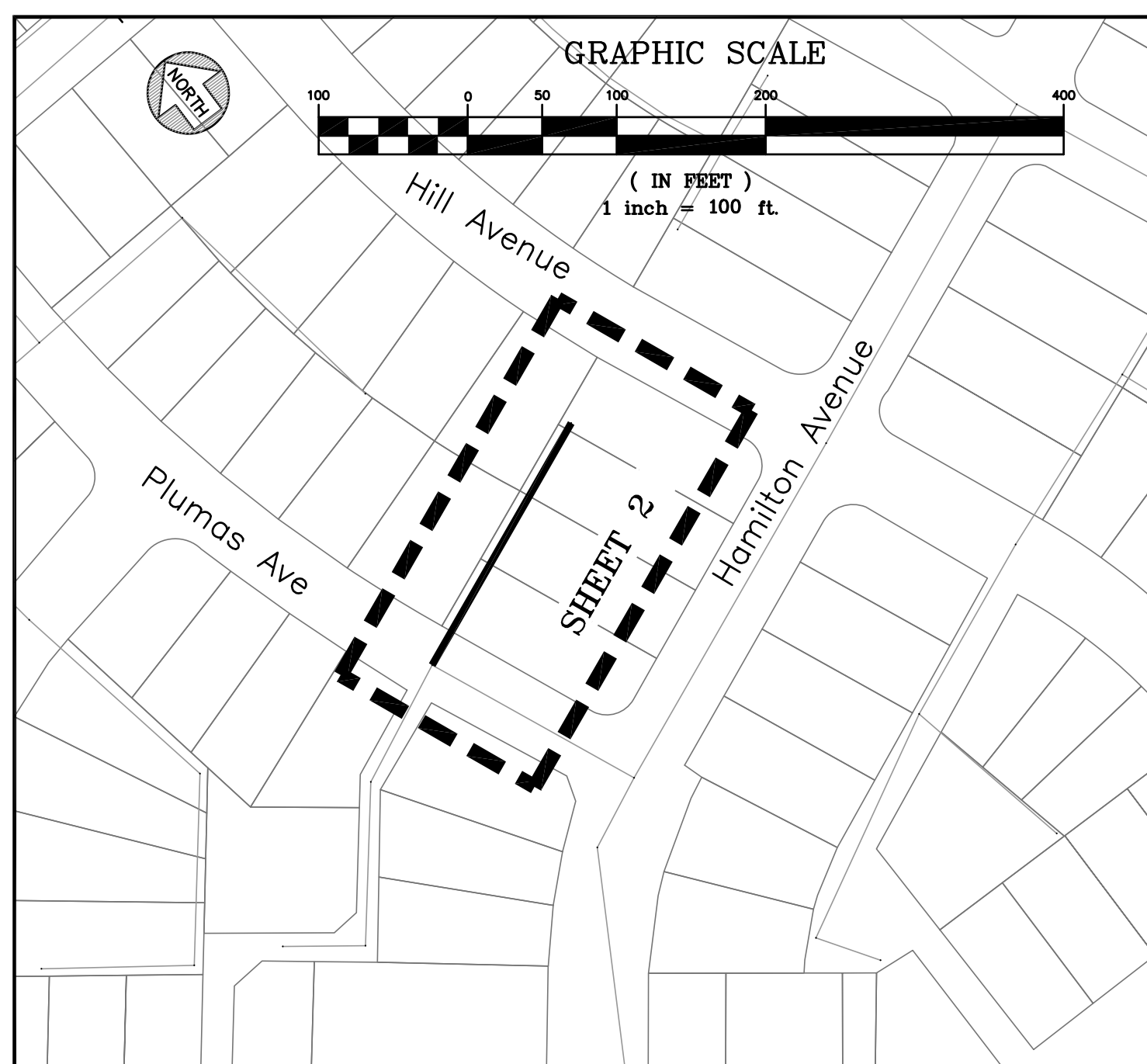
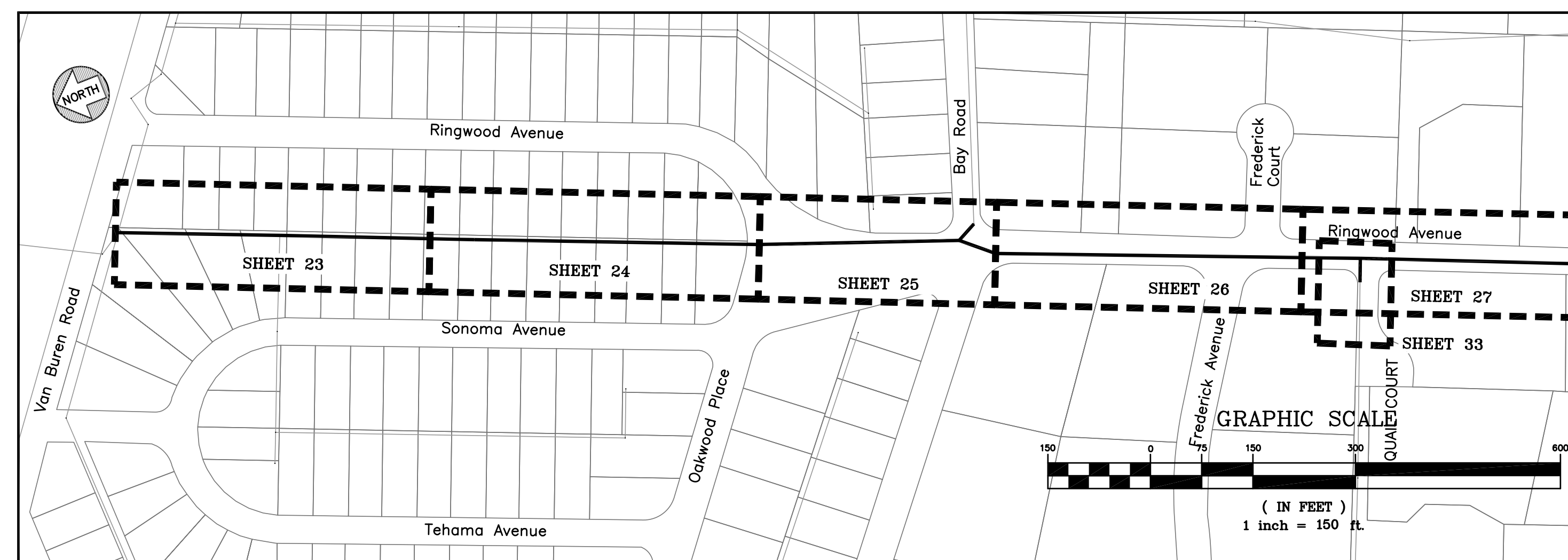
SHEET  
**0**  
JOB NO.  
**1086**

NOTES:

1) A REPRESENTATIVE FROM PUBLIC WORKS AND THE CITY'S MUNICIPAL WATER DISTRICT MUST BE PRESENT AT ALL TIMES DURING CONSTRUCTION OPERATIONS AT CROSSINGS BETWEEN THE PROPOSED SEWER MAIN AND EXISTING WATER MAIN. CONTACT PUBLIC WORKS AND MENLO PARK MUNICIPAL WATER AT 650-330-6600 PRIOR TO COMMENCEMENT OF ANY WORK WITHIN THESE UTILITY CROSSING ZONES.

INDEX OF DRAWINGS

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2	PLAN & PROFILE - EASEMENT (PLUMAS/HILL)	STA: 0+00 - 2+35	23	PLAN & PROFILE - EASEMENT (SONOMA/RINGWOOD)	STA: 0+00 - 4+50
3	PLAN & PROFILE - EASEMENT (ALMANOR/BERKELEY)	STA: 0+00 - 5+00	24	PLAN & PROFILE - EASEMENT (SONOMA/RINGWOOD)	STA: 4+50 - 9+50
4	PLAN & PROFILE - EASEMENT (ALMANOR/BERKELEY)	STA: 5+00 - 7+14	25	PLAN & PROFILE - RINGWOOD AVENUE	STA: 9+50 - 13+00
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6	PLAN & PROFILE - EASEMENT (BERKELEY/HENDERSON)	STA: 0+00 - 5+00	27	PLAN & PROFILE - RINGWOOD AVENUE	STA: 18+00 - 23+00
7	PLAN & PROFILE - EASEMENT (BERKELEY/HENDERSON)	STA: 5+00 - 6+15 AND WEST TO EAST	28	PLAN & PROFILE - RINGWOOD AVENUE	STA: 23+00 - 28+00
8	PLAN & PROFILE - EASEMENT (HENDERSON/WINDERMERE)	STA: 0+00 - 5+17	29	PLAN & PROFILE - RINGWOOD AVENUE	STA: 28+00 - 33+00
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12	PLAN & PROFILE - HOLLYBURNE AVENUE	STA: 0+00 - 5+07	33	PLAN & PROFILE - QUAIL COURT, PARKWOOD DRIVE, ALTREE COURT, GILBERT AVENUE	STA: 0+00 - 0+35, 0+00 - 0+20, 0+00 - 0+20, 0+00 - 3+83
13	PLAN & PROFILE - HOLLYBURNE AVENUE & BAY ROAD	STA: 0+00 - 3+06	34	PLAN & PROFILE - GILBERT AVENUE	STA: 0+00 - 3+83
14	PLAN & PROFILE - EASEMENT (HOLLYBURNE/SEVIER)	STA: 0+00 - 3+43	35	DETAIL SHEET # 1	
15	PLAN & PROFILE - EASEMENT (HOLLYBURNE/SEVIER)	WEST TO EAST	36	DETAIL SHEET # 2	
16	PLAN & PROFILE - EASEMENT (SEVIER/MADERA)	STA: 0+00 - 2+33	37	DETAIL SHEET # 3	
17	PLAN & PROFILE - EASEMENT (SEVIER/MADERA)	WEST TO EAST			
18	PLAN & PROFILE - EASEMENT (MADERA/BAY/VAN BUREN)	STA: 0+00 - 2+18			
19	PLAN & PROFILE - EASEMENT (VAN BUREN)	STA: 0+00 - 3+61			
20	PLAN & PROFILE - EASEMENT (VAN BUREN)	STA: 0+00 - 4+40			



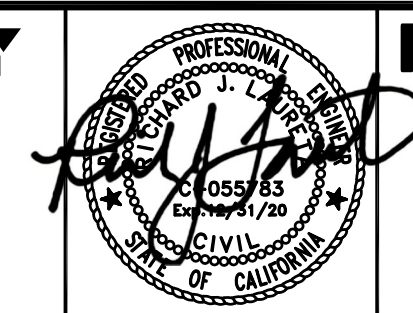
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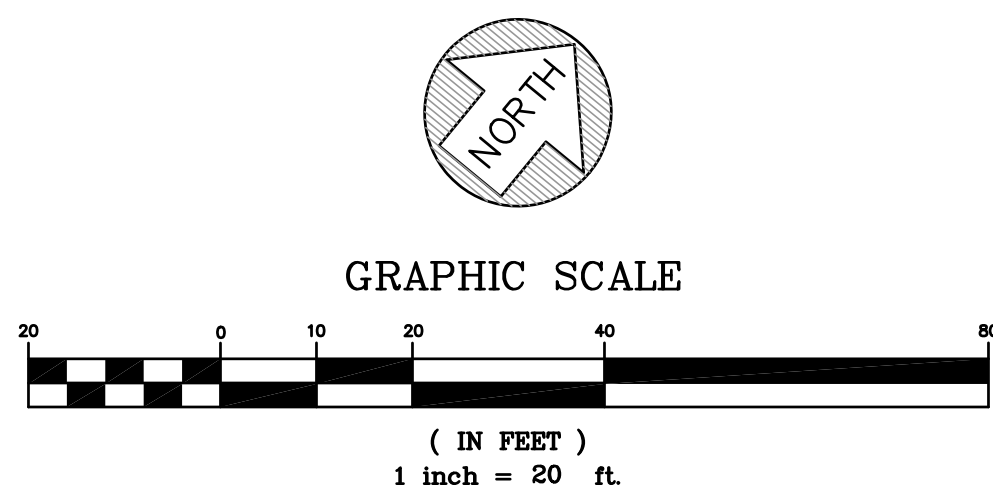
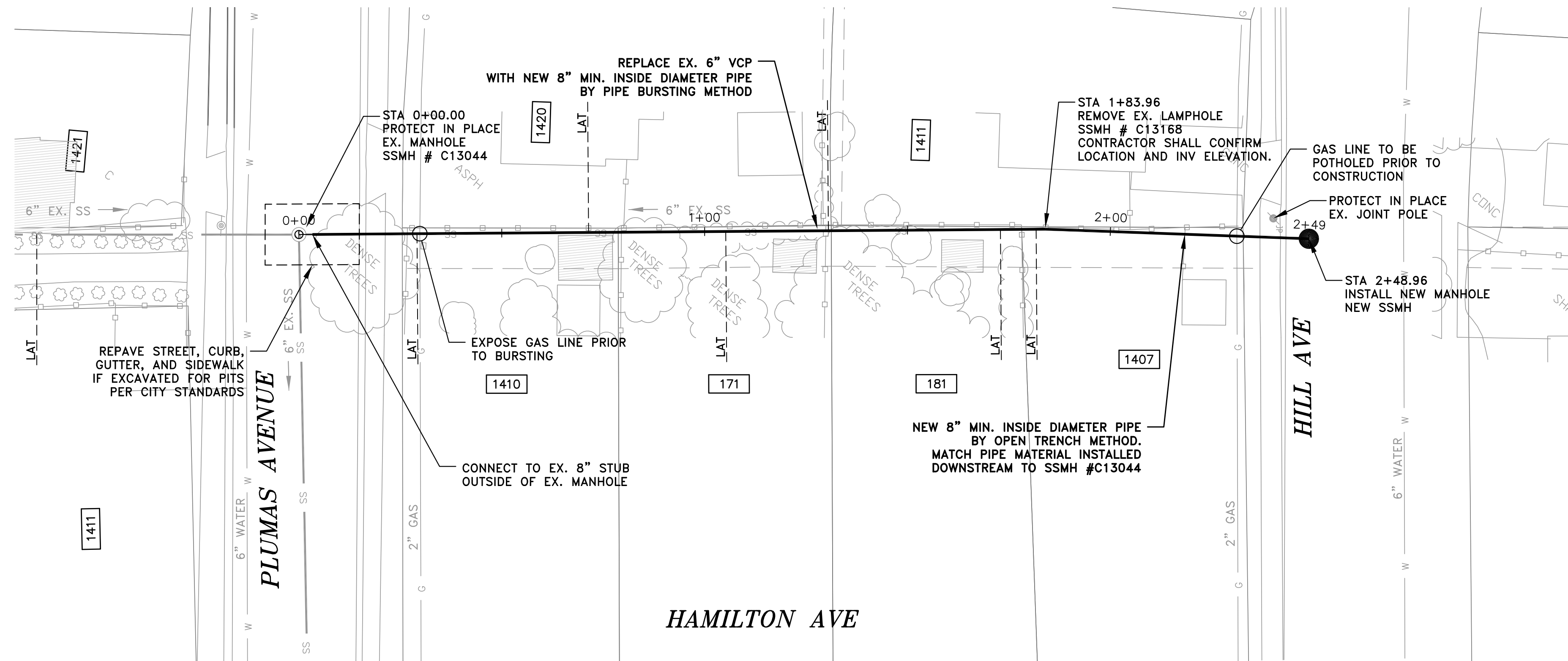
**WEST BAY**  
SANITARY DISTRICT  
SAN MATEO COUNTY

PROJECT No. 1761.5



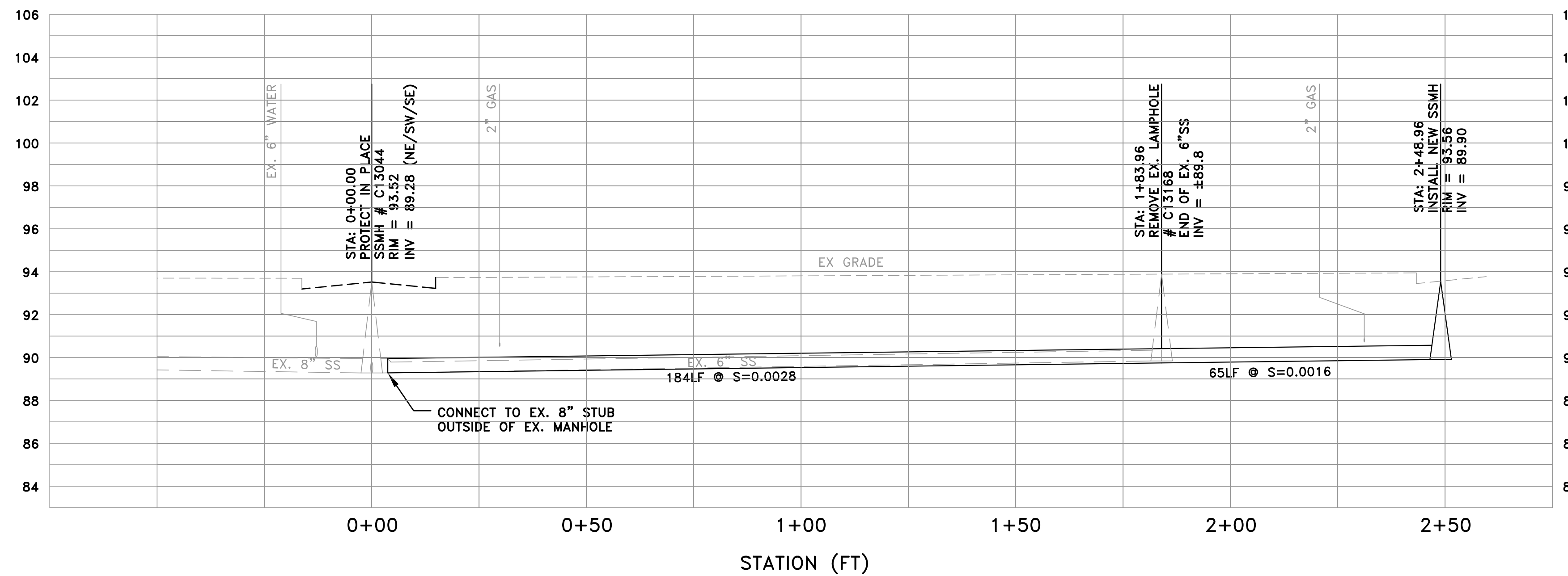
**NORTH BAY ROAD AND RINGWOOD AVENUE**  
**INDEX MAP & INDEX LABEL**  
**MENLO PARK, CALIFORNIA**

SHEET  
**1**  
JOB NO.  
**1086**



**NOTES:**

- 1) CONTRACTOR SHALL BE RESPONSIBLE FOR THE UNINTERRUPTION OF SEWER SERVICE FOR ALL PROPERTIES. CONTRACTOR SHALL SUBMIT BYPASS PLAN TO THE DISTRICT FOR APPROVAL 10 DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING.
- 2) CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID ANY DAMAGE TO EXISTING UTILITIES. CONTRACTOR SHALL NOTE THE CLOSE PROXIMITY OF UTILITIES TO PROPOSED IMPROVEMENTS. CONTRACTOR SHALL NOTIFY U.S.A. TO LOCATE UTILITIES AT THE PROJECT SITE PRIOR TO START OF CONSTRUCTION.
- 3) FOR PIPE BURSTING SEE PROJECT STANDARD SPECIFICATION FOR PIPE INSTALLATION AND MATERIAL.
- 4) 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.
- 5) CONTRACTOR TO INFORM PG&E OF WORK NEAR PG&E'S MAJOR FACILITIES A MINIMUM OF SEVEN WORKING DAYS PRIOR TO WORK IN THE AREA TO ENSURE A PG&E REPRESENTATIVE IS ONSITE TO OBSERVE THE WORK DONE.



**PROFILE VIEW**  
 HORIZ: 1" = 20'  
 VERT: 1" = 4'

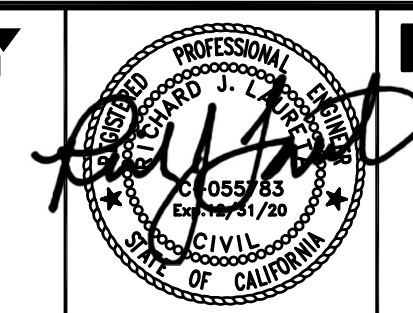
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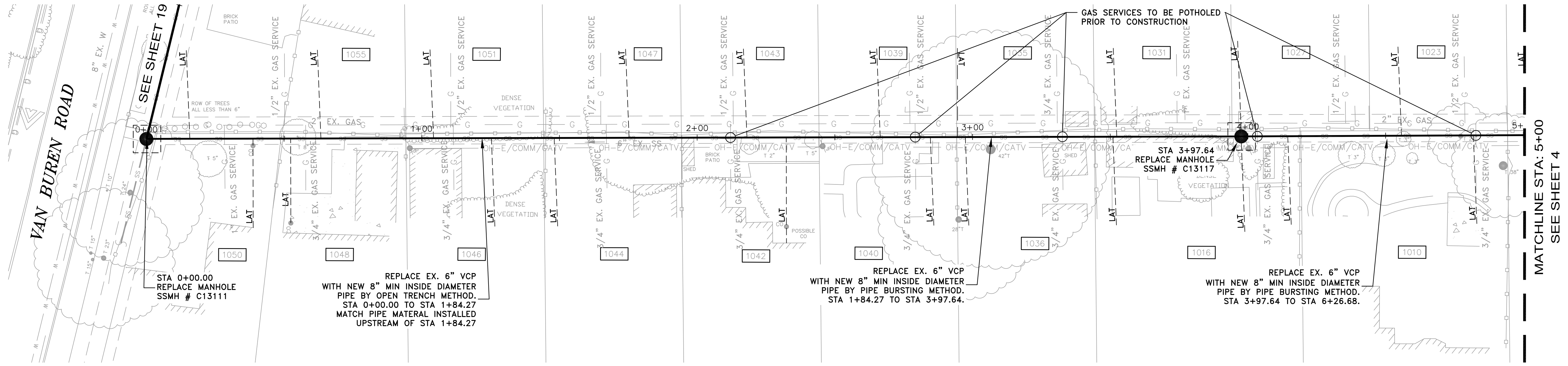
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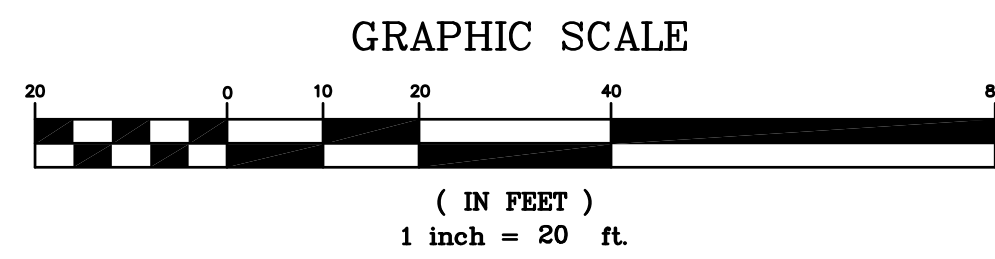
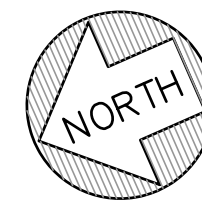
**NORTH BAY ROAD AND RINGWOOD AVENUE**  
**EASEMENT (PLUMAS / HILL)**  
**STA 0+00 - 2+35**  
**MENLO PARK, CALIFORNIA**

SHEET  
 2  
 JOB NO.  
 1086

BERKELEY AVE

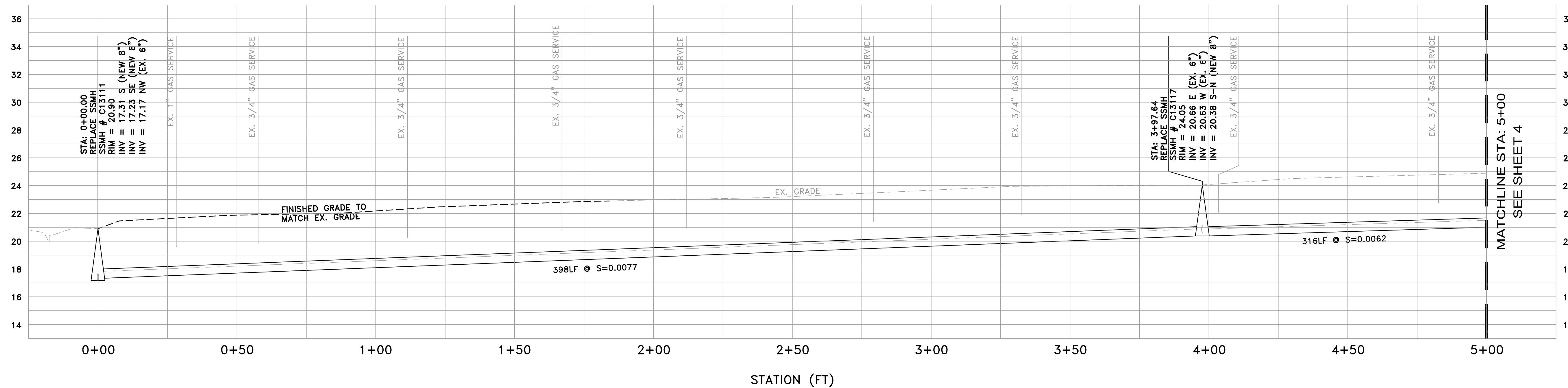


ALMANOR AVE



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- GAS MAIN PARALLEL TO SANITARY SEWER SHALL BE PROTECTED IN PLACE BY THE CONTRACTOR.



PROFILE VIEW  
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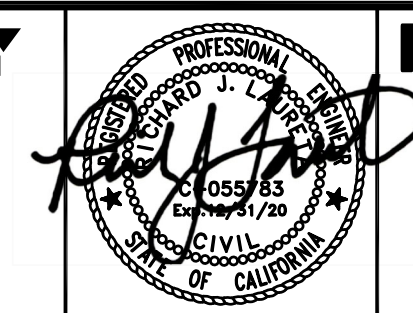
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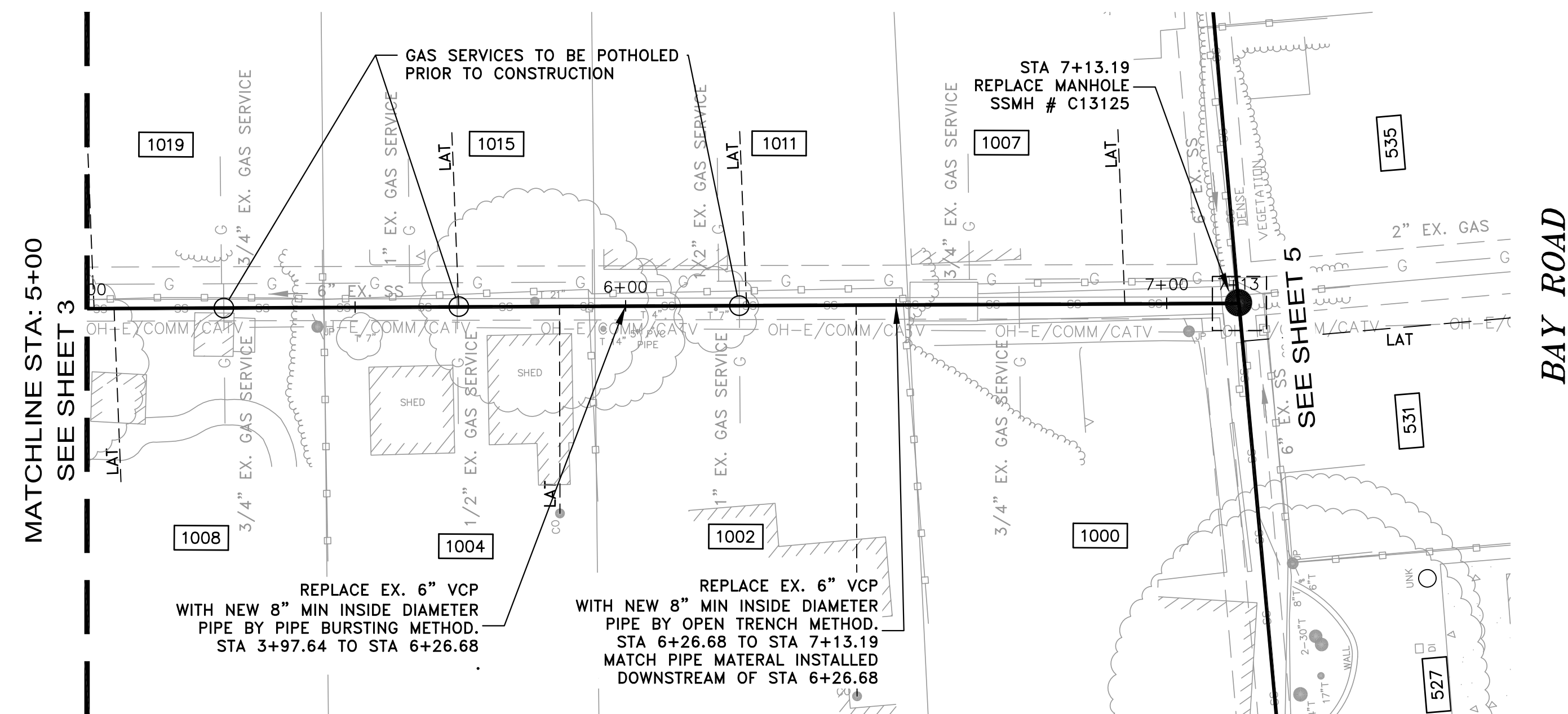
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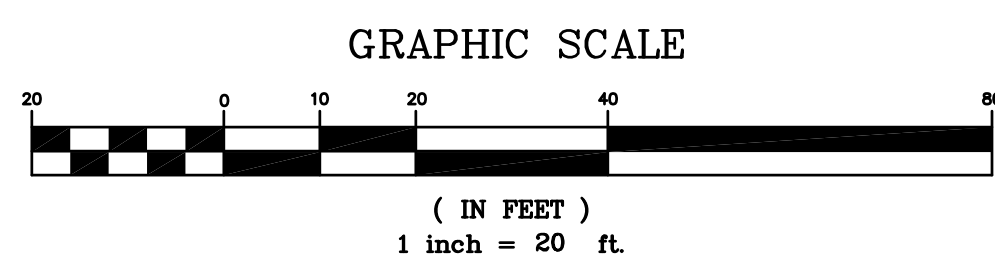
**NORTH BAY ROAD AND RINGWOOD AVENUE**  
EASEMENT - (ALMANOR / BERKELEY)  
STA 0+00 - 5+00  
MENLO PARK, CALIFORNIA

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BERKELEY AVE

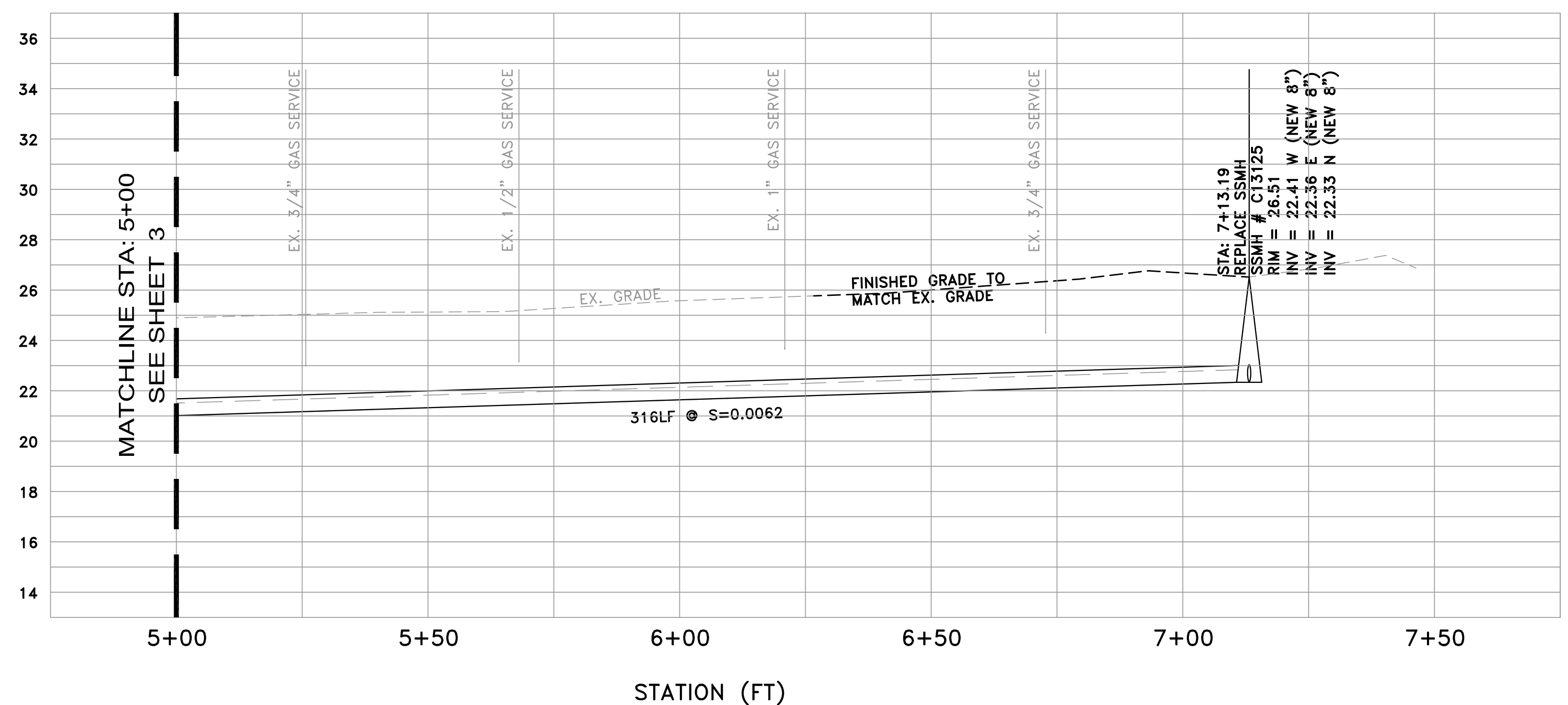


ALMANOR AVE



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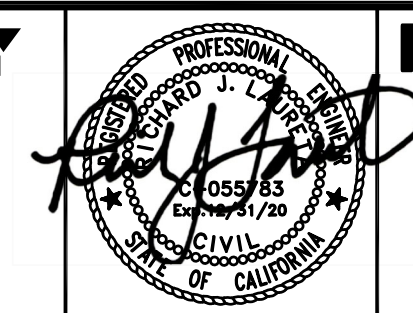
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CHECKED:	LFH		
PROJ. ENGR:	RJL		
BY	DATE	DESCRIPTION OF REVISIONS	APP'D

**FL FREYER & LAURETA, INC.**  
CIVIL ENGINEERS • SURVEYORS • CONSTRUCTION MANAGERS

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(650)344-9901 • Fax (650)344-9920 • www.freyerlaureta.com

**WEST BAY**  
SANITARY DISTRICT  
SAN MATEO COUNTY

PROJECT No. 1761.5



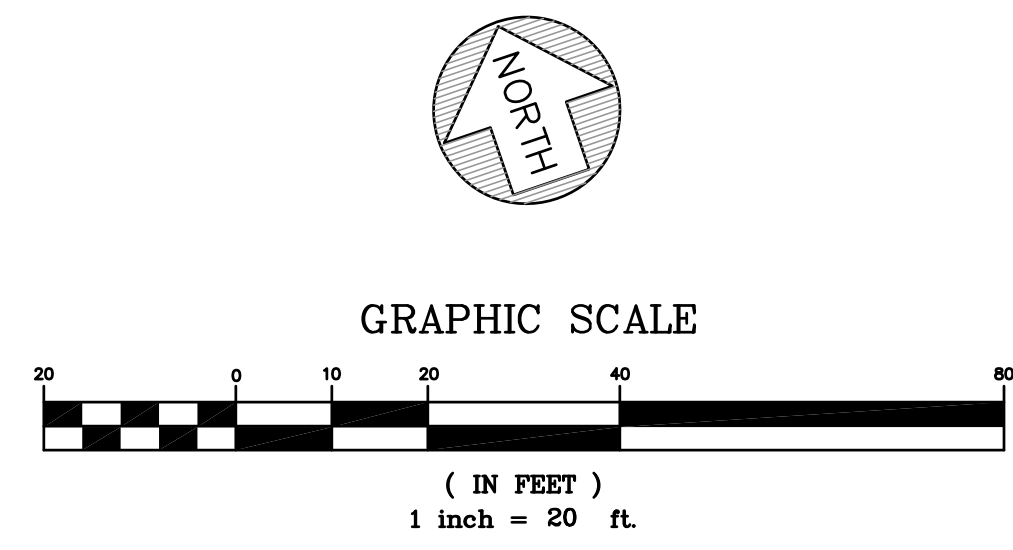
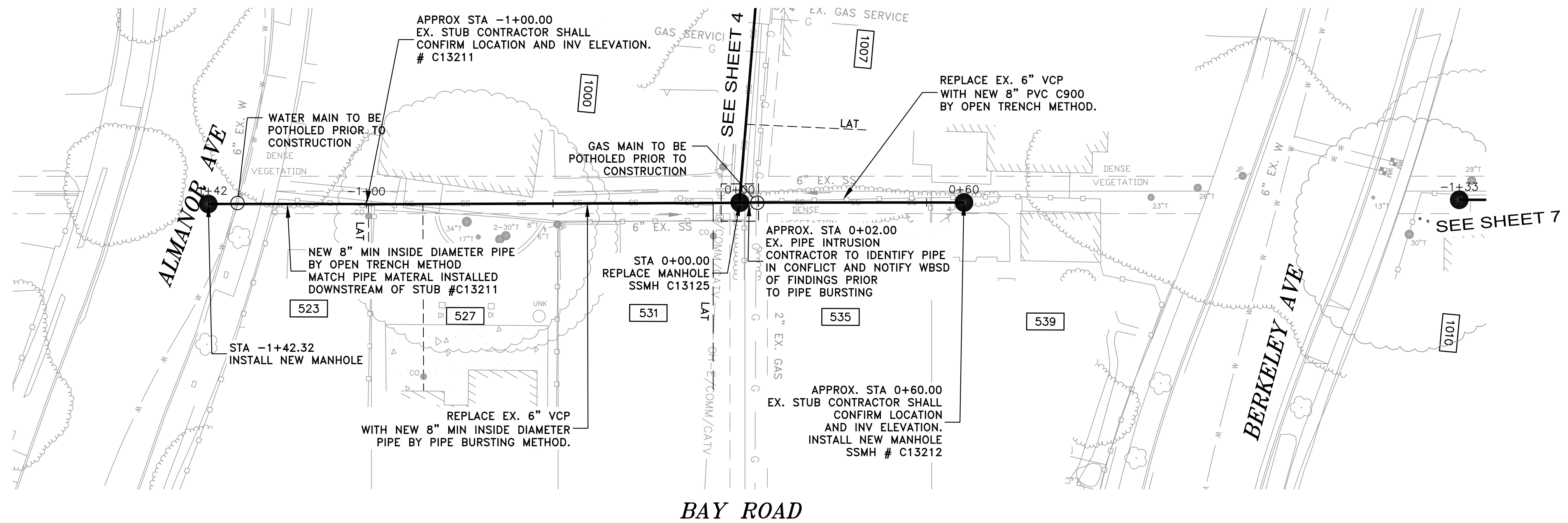
**NORTH BAY ROAD AND RINGWOOD AVENUE**  
**EASEMENT (ALMANOR / BERKELEY)**  
**STA 5+00 - 7+14**  
**MENLO PARK, CALIFORNIA**

SHEET

4

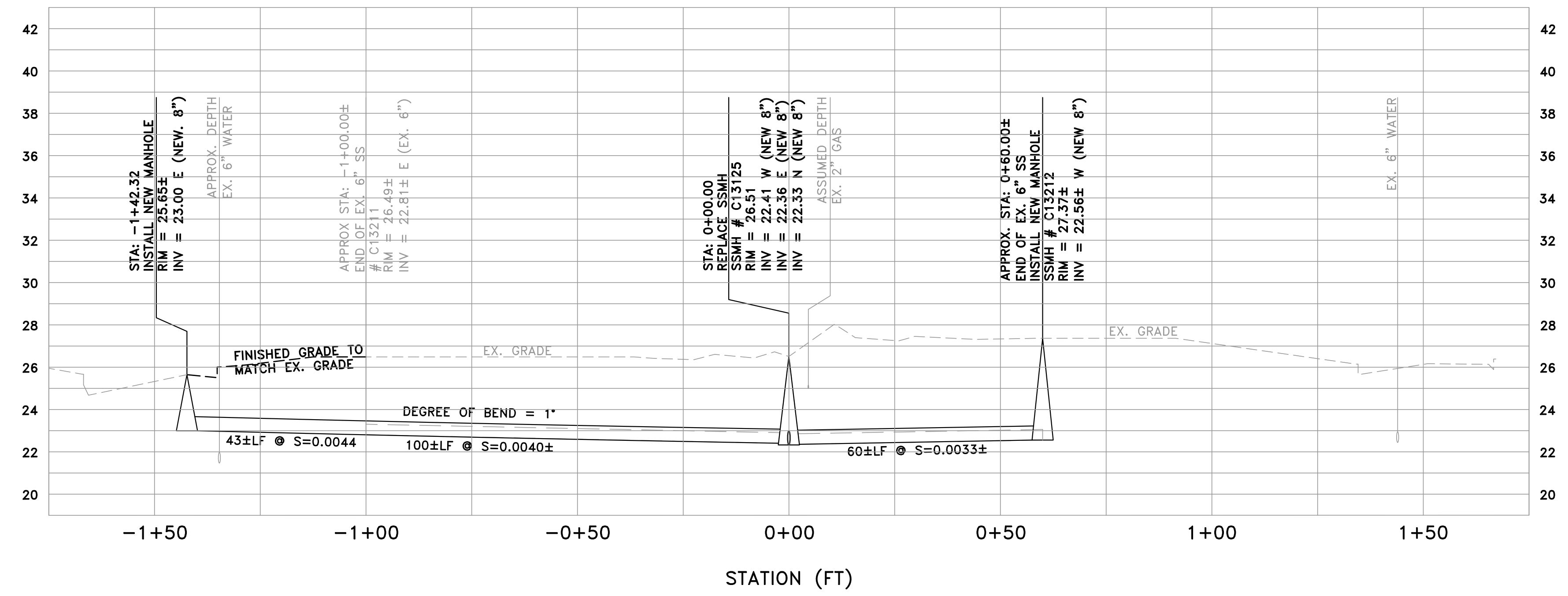
JOB NO.

1086



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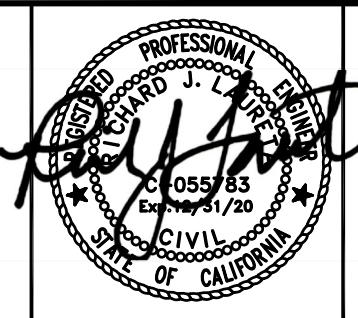
**PROFILE VIEW**  
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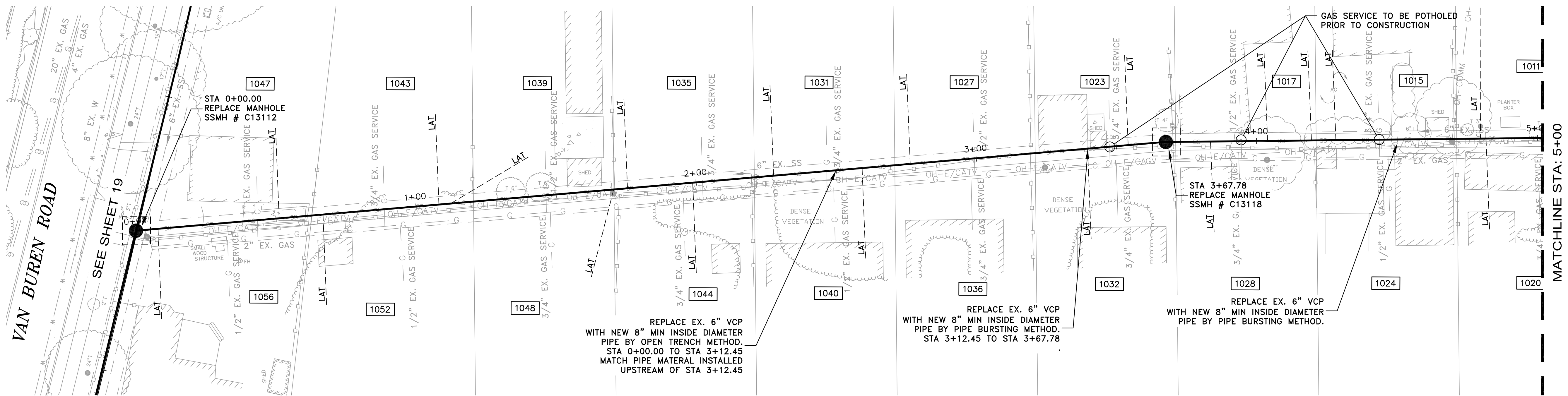
**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY  
 PROJECT No. 1761.5



**NORTH BAY ROAD AND RINGWOOD AVENUE**  
**EASEMENT (ALMANOR / BERKELEY)**  
**WEST TO EAST**  
**MENLO PARK, CALIFORNIA**

SHEET	5
JOB NO.	1086

HENDERSON AVE

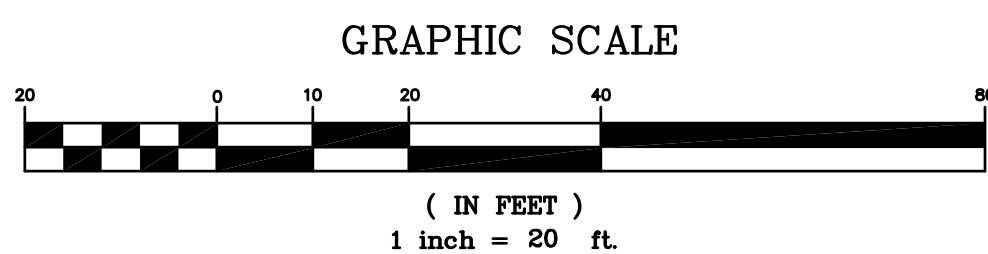
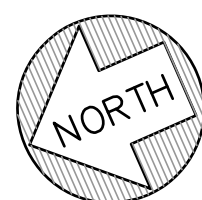


REPLACE EX. 6" VCP WITH NEW 8" MIN INSIDE DIAMETER PIPE BY OPEN TRENCH METHOD. STA 0+00.00 TO STA 3+12.45 MATCH PIPE MATERIAL INSTALLED UPSTREAM OF STA 3+12.45

REPLACE EX. 6" VCP WITH NEW 8" MIN INSIDE DIAMETER PIPE BY PIPE BURSTING METHOD. STA 3+12.45 TO STA 3+67.78

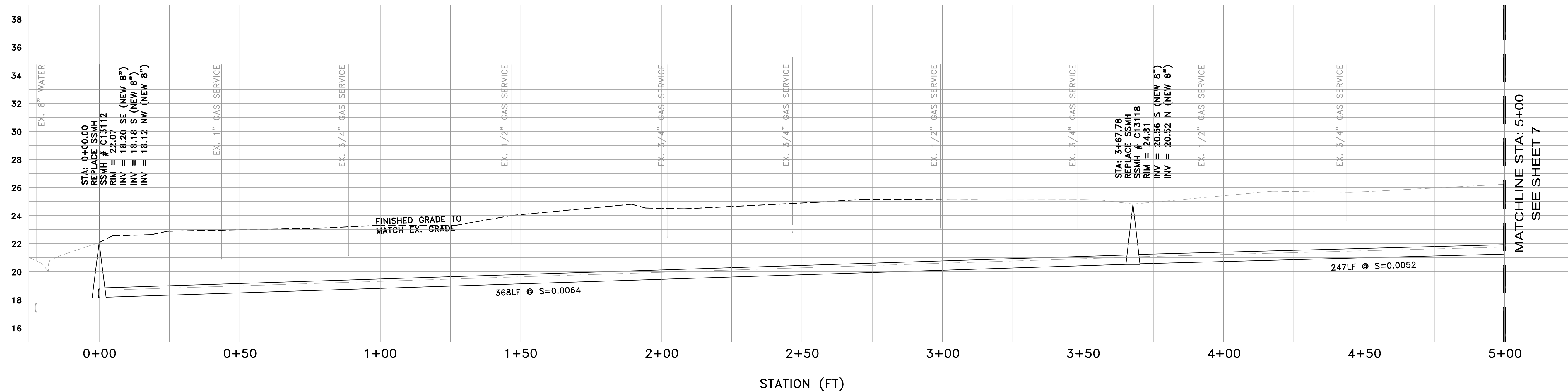
REPLACE EX. 6" VCP WITH NEW 8" MIN INSIDE DIAMETER PIPE BY PIPE BURSTING METHOD.

BERKELEY AVE



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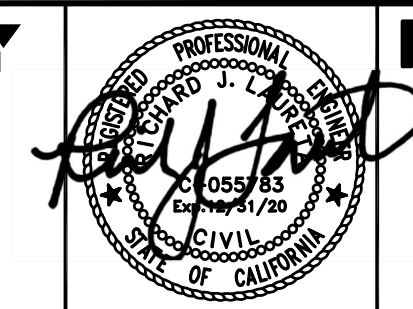
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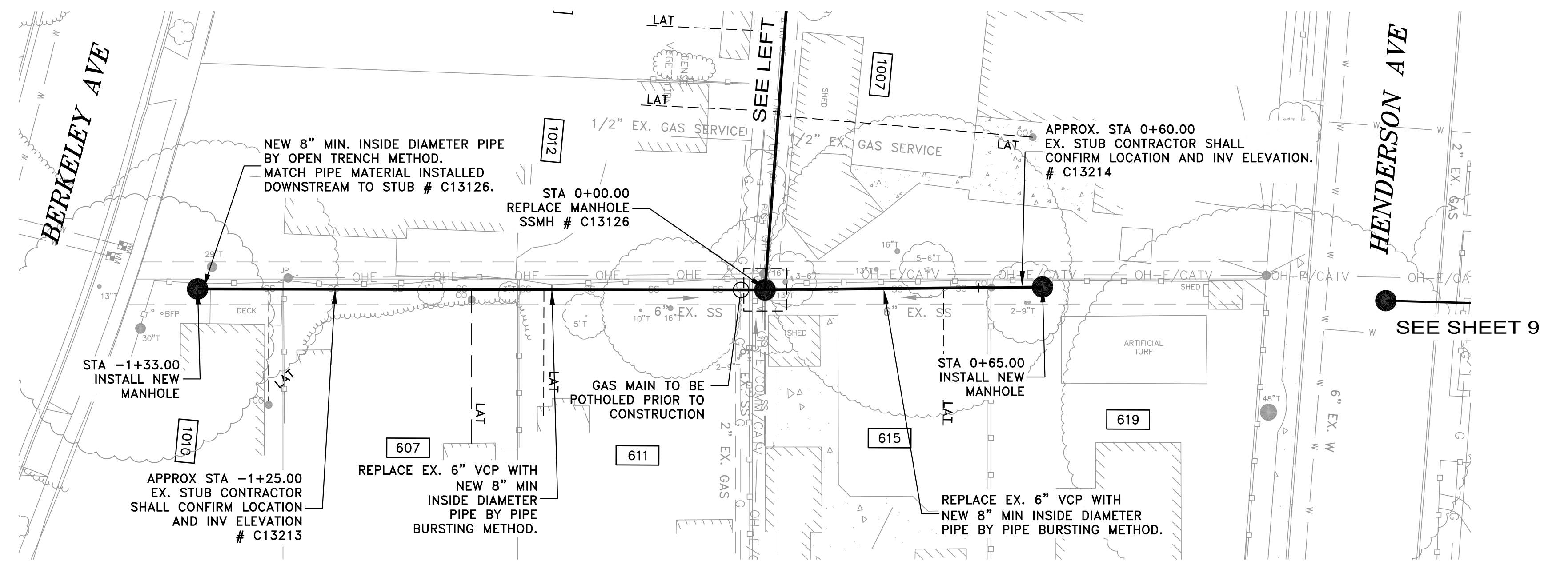
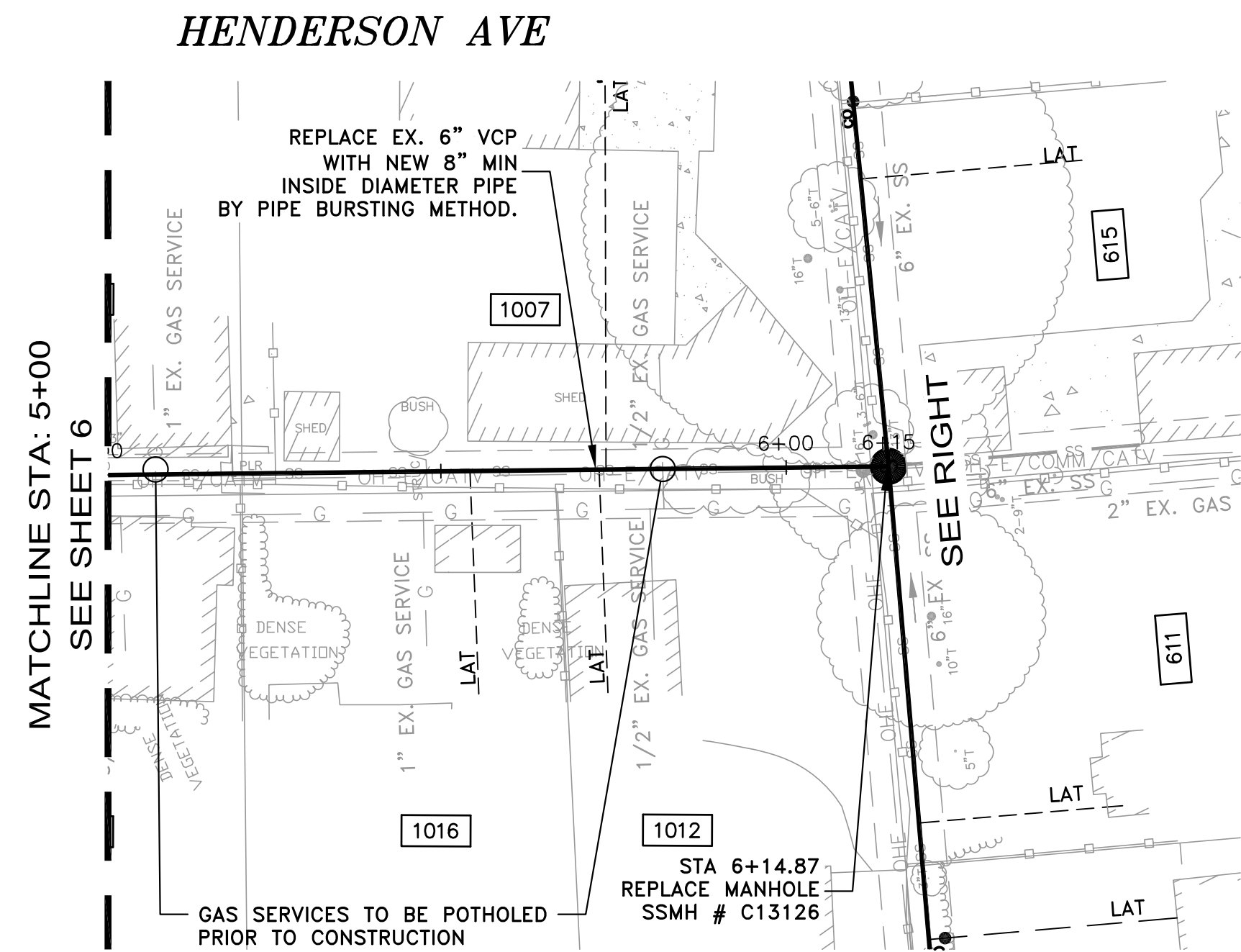
**WEST BAY**  
SANITARY DISTRICT  
SAN MATEO COUNTY

PROJECT No. 1761.5



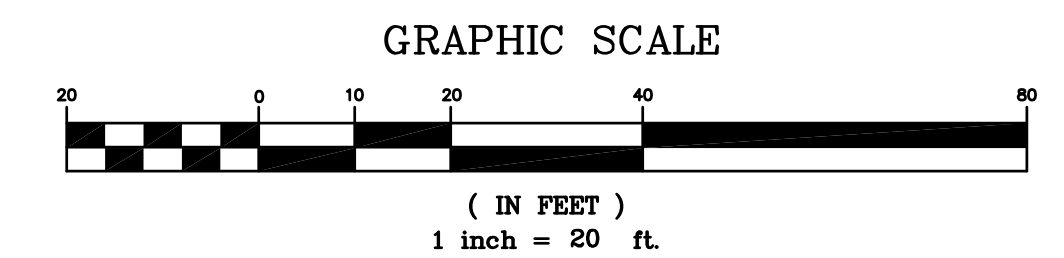
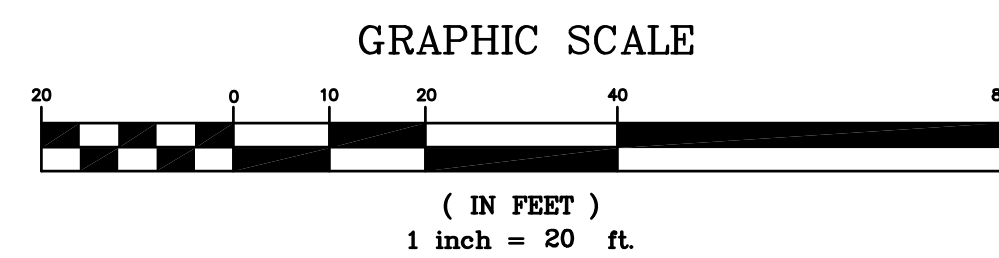
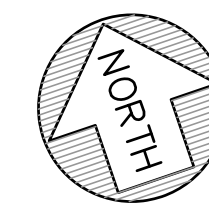
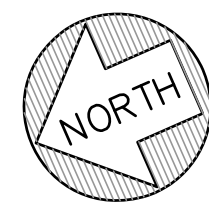
**NORTH BAY ROAD AND RINGWOOD AVENUE  
EASEMENT (BERKELEY / HENDERSON)  
STA 0+00 - 5+00  
MENLO PARK, CALIFORNIA**

SHEET  
**6**  
JOB No.  
**1086**



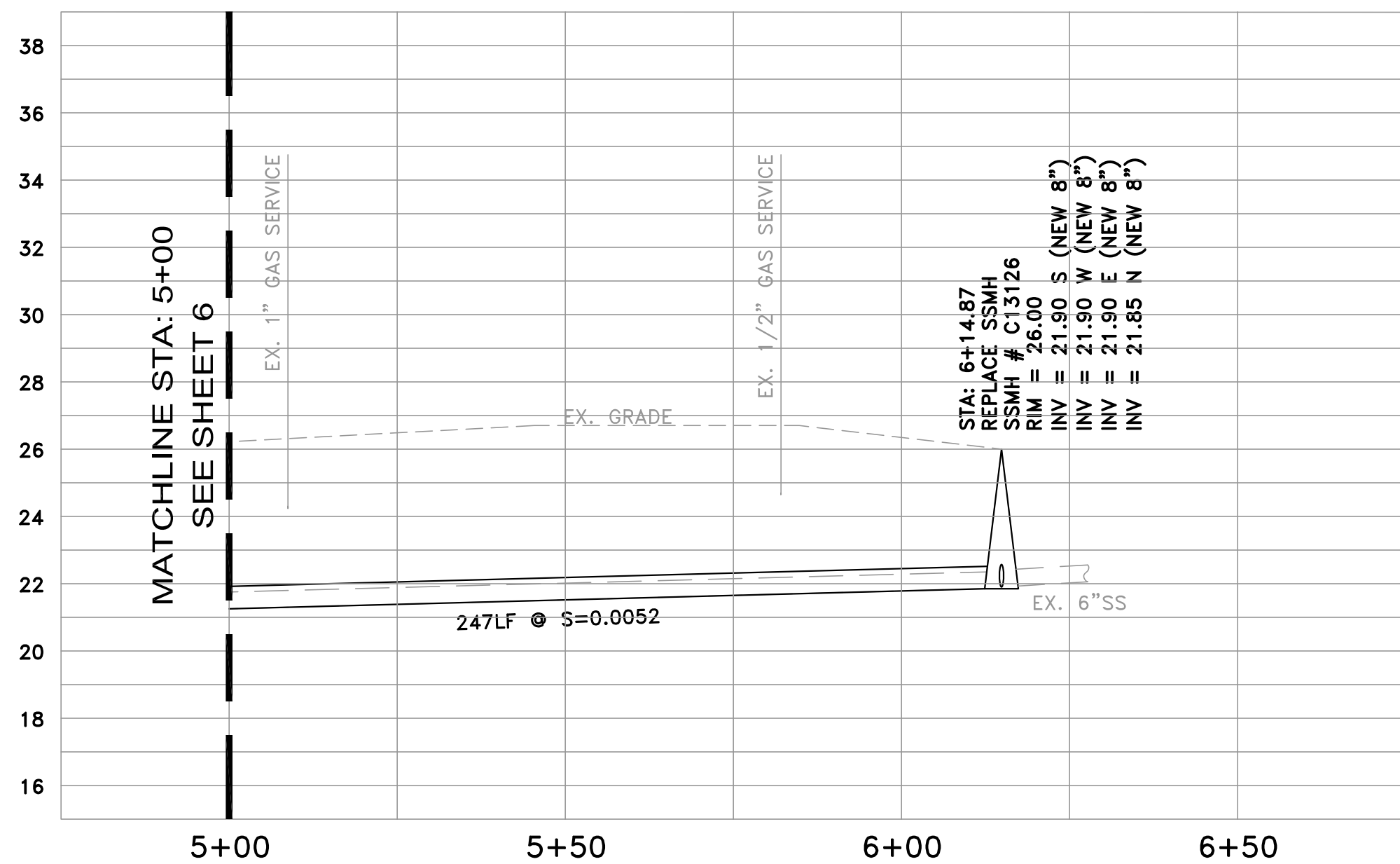
BERKELEY AVE

BAY ROAD

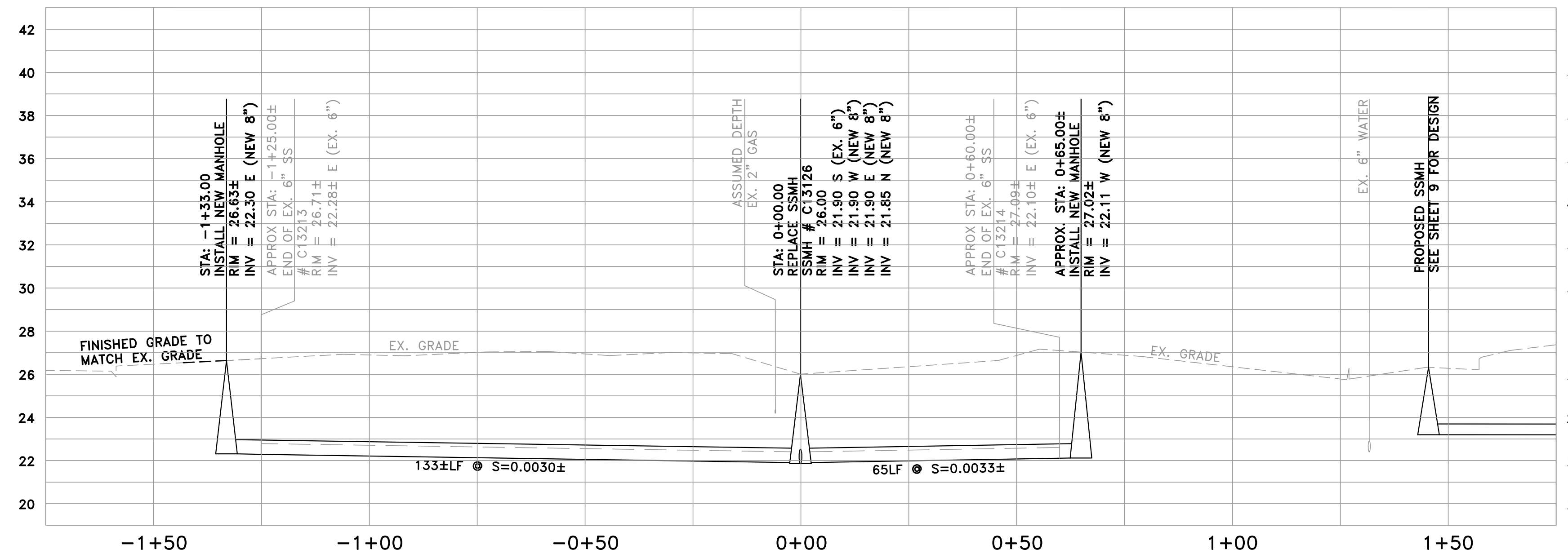


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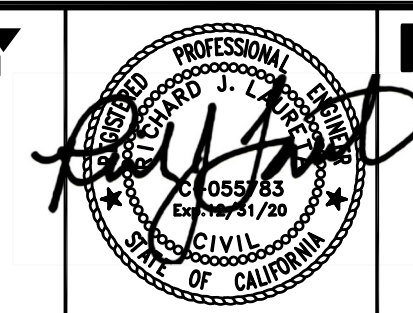
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**WEST BAY**  
SANITARY DISTRICT  
SAN MATEO COUNTY

PROJECT No. 1761.5

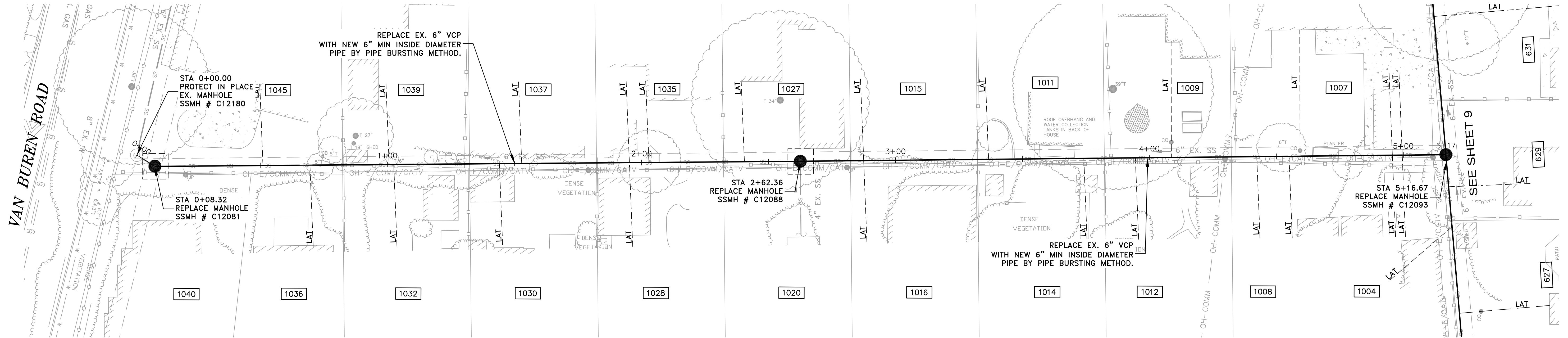


**NORTH BAY ROAD AND RINGWOOD AVENUE**  
EASEMENT (BERKELEY / HENDERSON)  
STA 5+00 - 6+15 AND EAST TO WEST  
MENLO PARK, CALIFORNIA

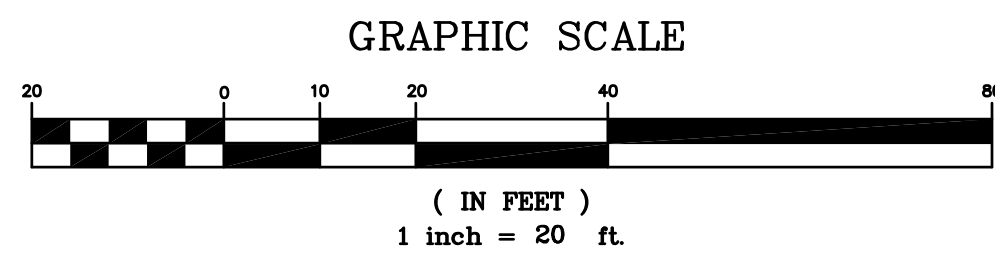
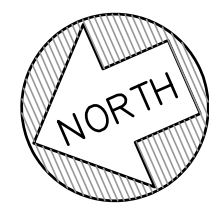
SHEET  
7  
JOB NO.  
1086



WINDERMERE AVE

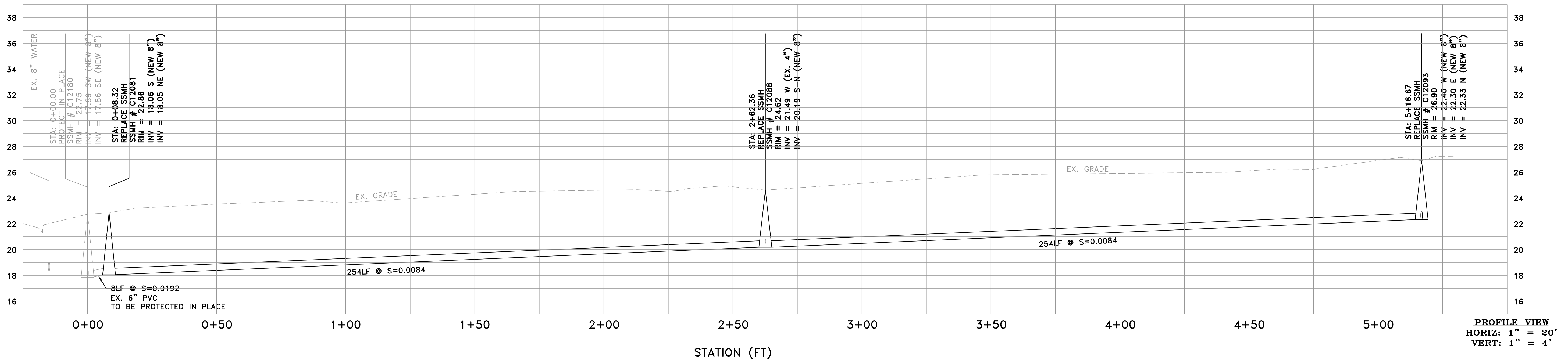


HENDERSON AVE



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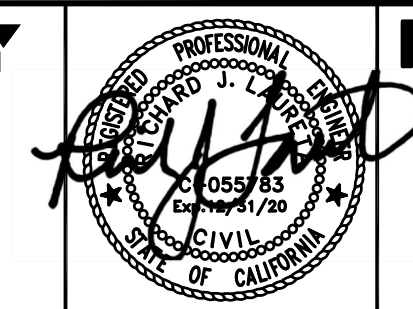
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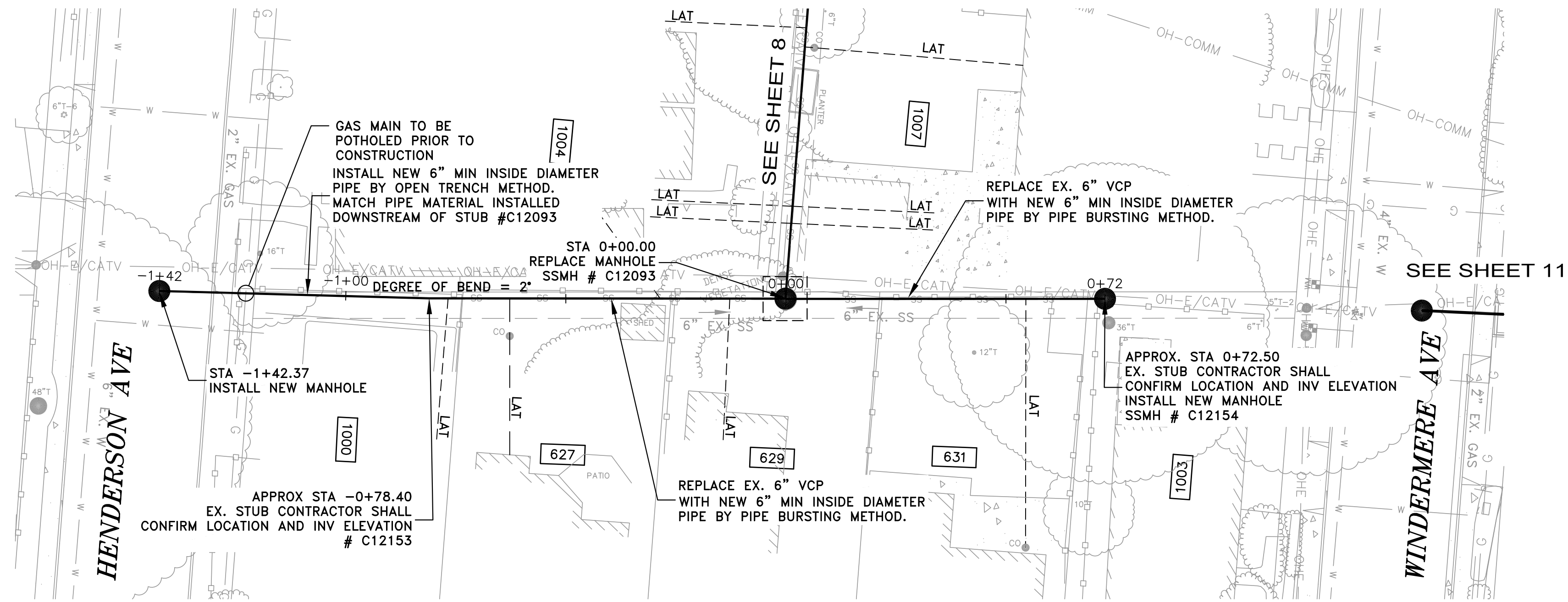
**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY

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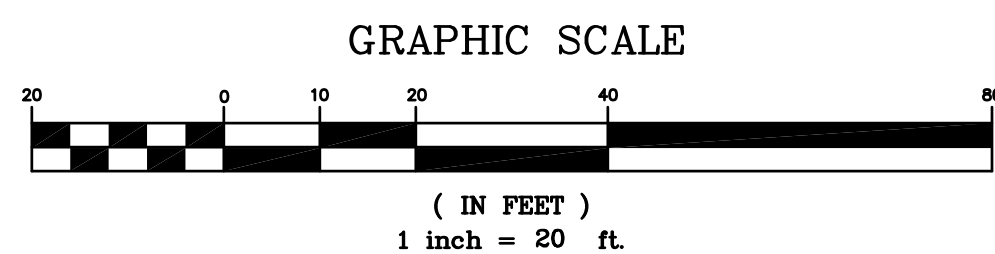
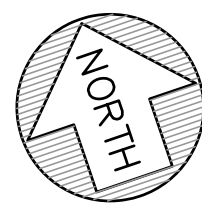


**NORTH BAY ROAD AND RINGWOOD AVENUE  
 EASEMENT (HENDERSON / WINDERMERE)  
 STA 0+00 - 5+17  
 MENLO PARK, CALIFORNIA**

SHEET  
**8**  
 JOB NO.  
**1086**

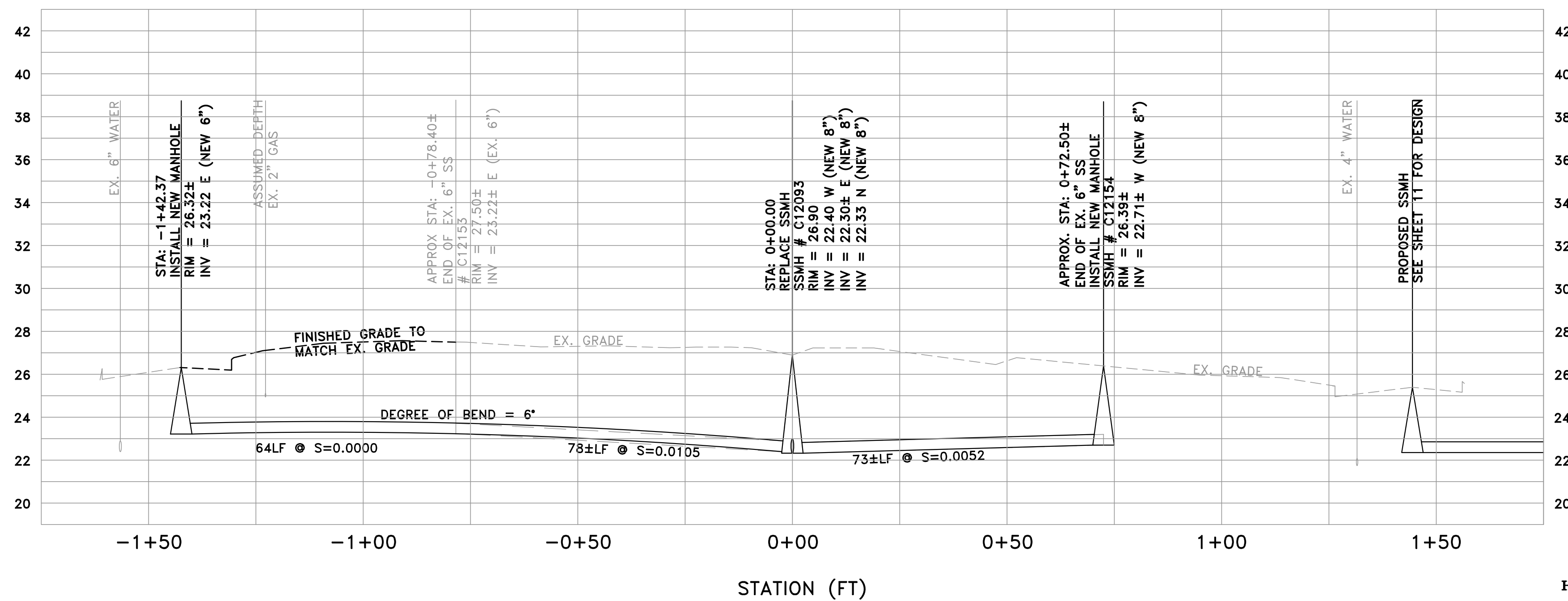


**BAY ROAD**



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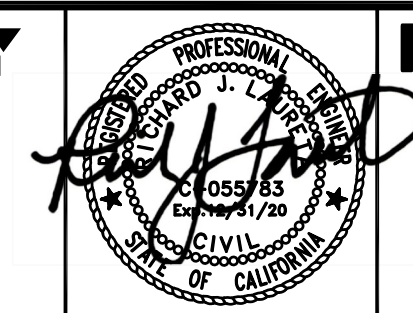
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**WEST BAY**  
 SANITARY DISTRICT  
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**NORTH BAY ROAD AND RINGWOOD AVENUE**  
**EASEMENT (HENDERSON / WINDERMERE)**  
**WEST TO EAST**  
**MENLO PARK, CALIFORNIA**

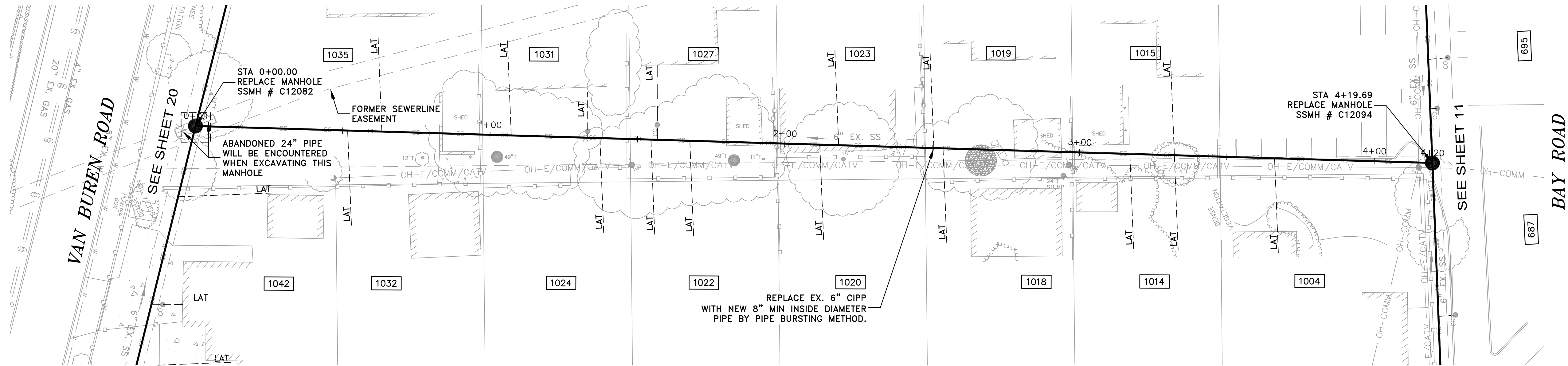
SHEET

9

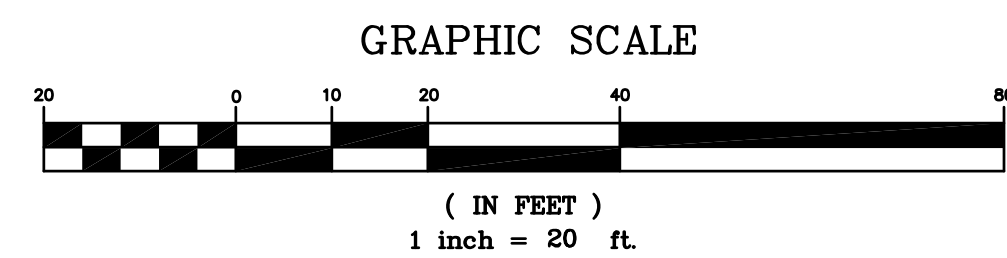
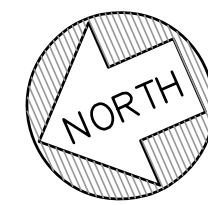
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HOLLYBURNE AVE

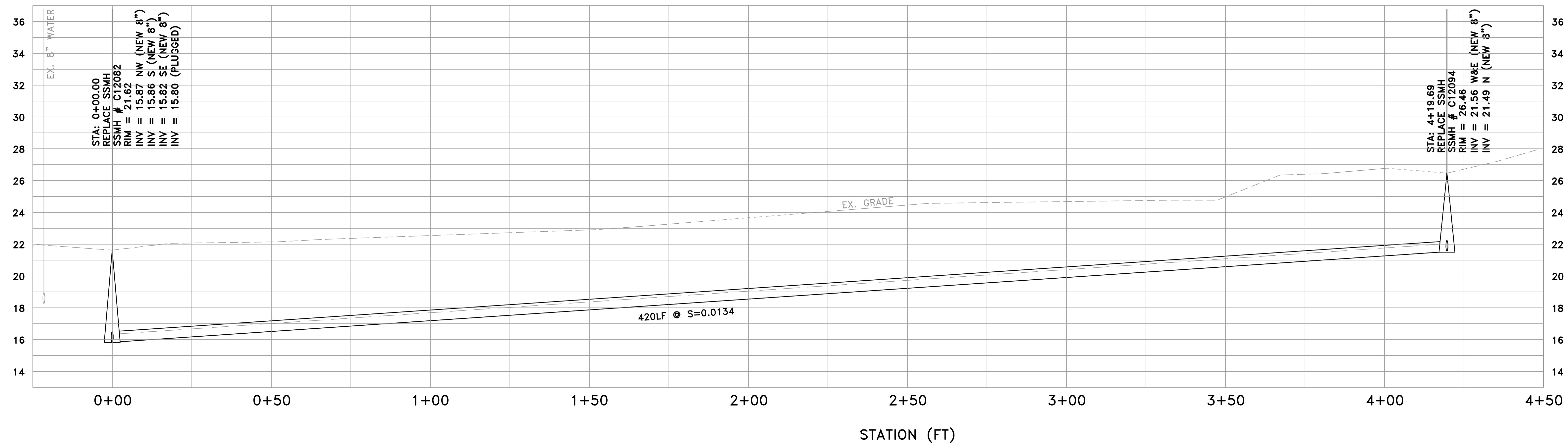


WINDERMERE AVE



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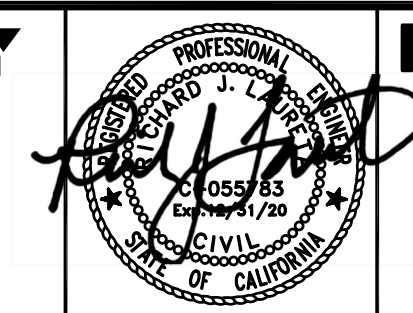
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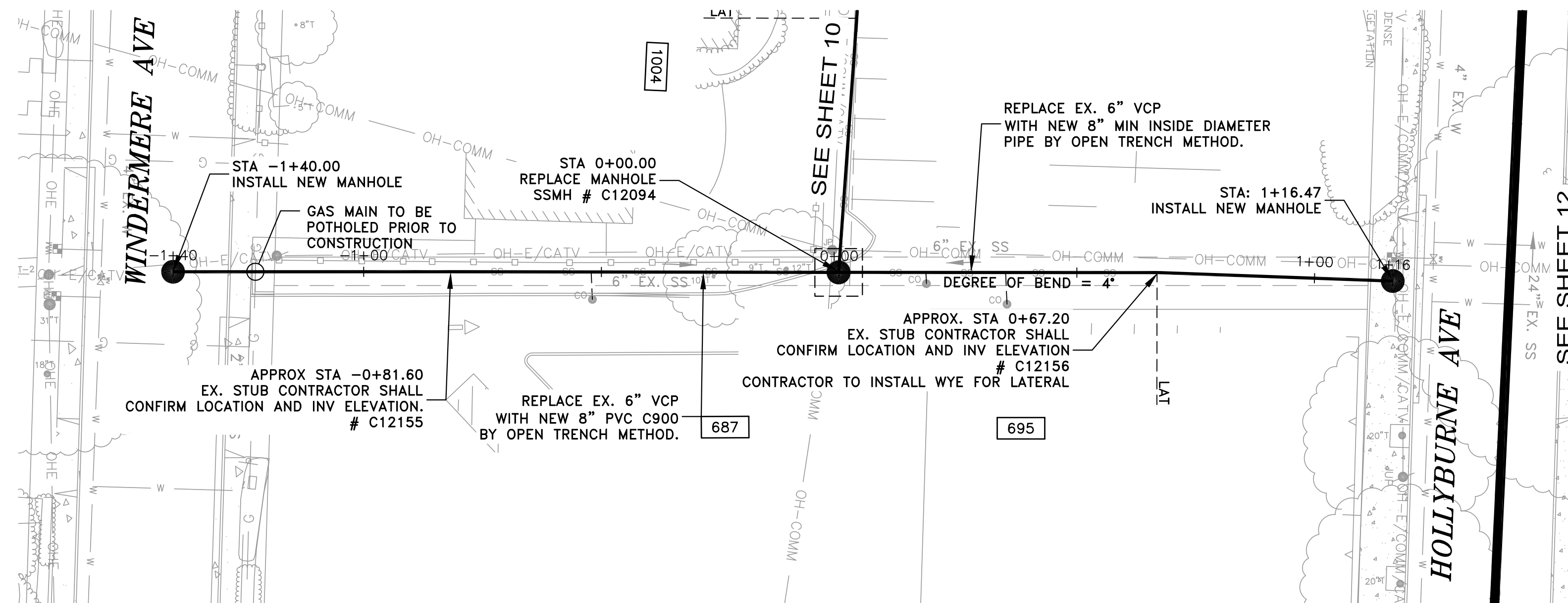
**WEST BAY**  
SANITARY DISTRICT  
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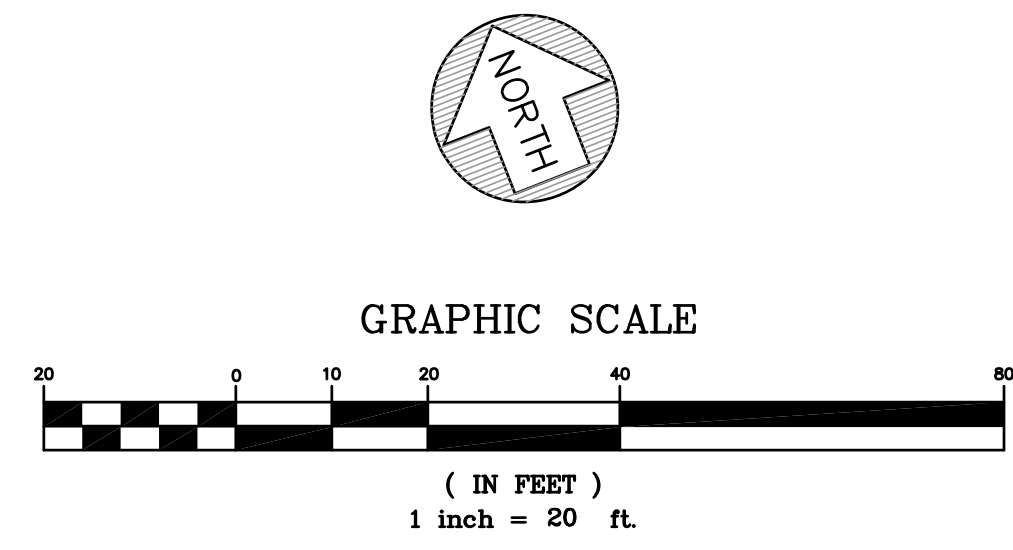


**NORTH BAY ROAD AND RINGWOOD AVENUE**  
**EASEMENT (WINDERMERE / HOLLYBURNE)**  
**STA 0+00 - 4+20**  
**MENLO PARK, CALIFORNIA**

SHEET  
**10**  
JOB NO.  
**1086**

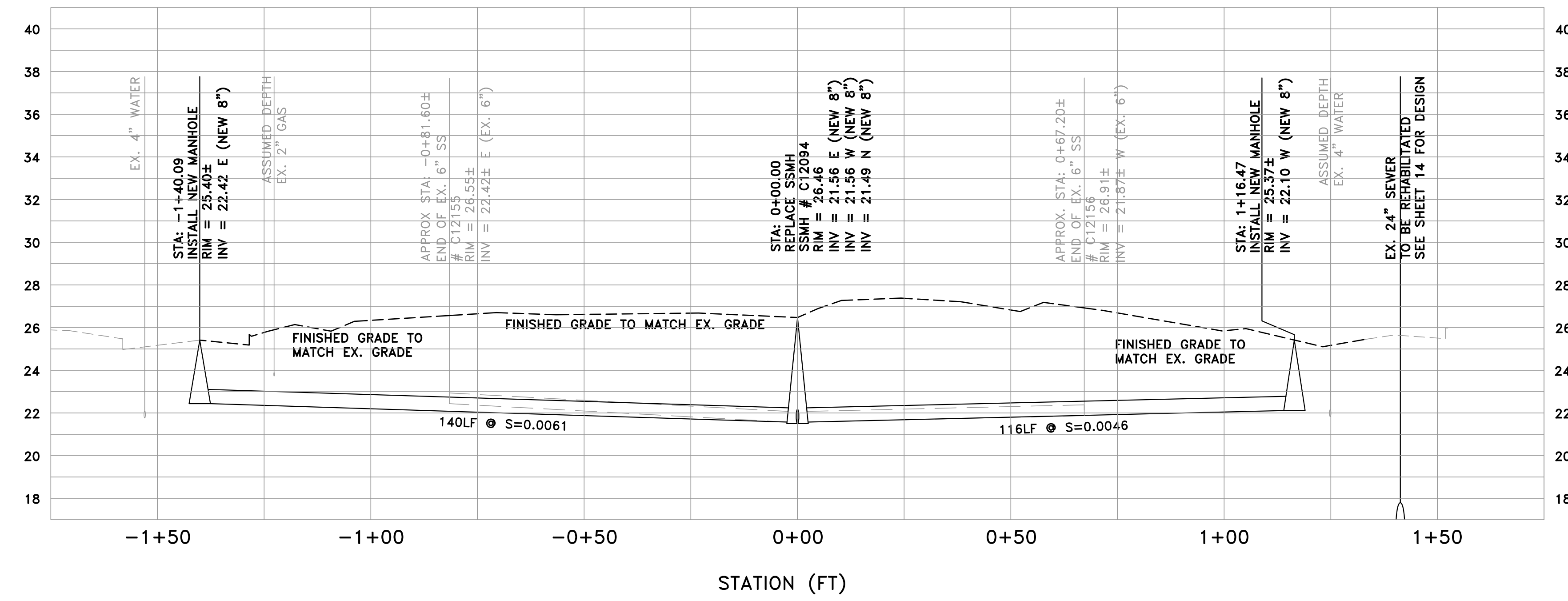


**BAY ROAD**



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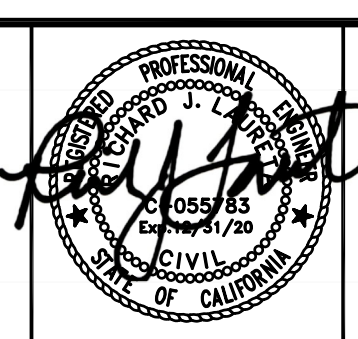
**PROFILE VIEW**  
 HORIZ: 1" = 20'  
 VERT: 1" = 4'

DATE:	10/14/2020	10/14/2020	BID SET
SCALE:	AS NOTED		
DESIGNED:	LFH & FYM		
DRAWN:	FYM		
CHECKED:	LFH		
PROJ. ENGR:	RJL		
BY	DATE	DESCRIPTION OF REVISIONS	APP'D

**FREYER & LAURETA, INC.**  
 CIVIL ENGINEERS • SURVEYORS • CONSTRUCTION MANAGERS

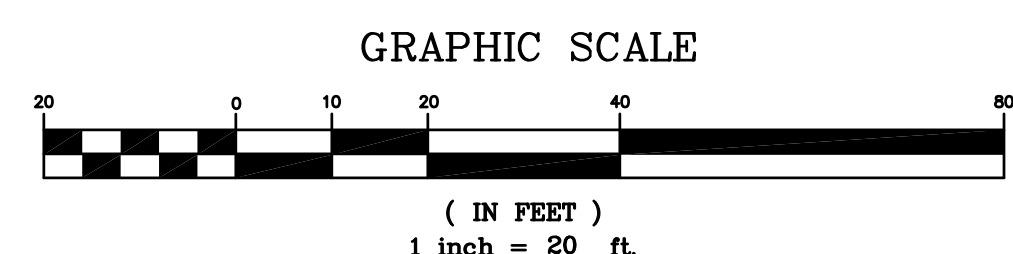
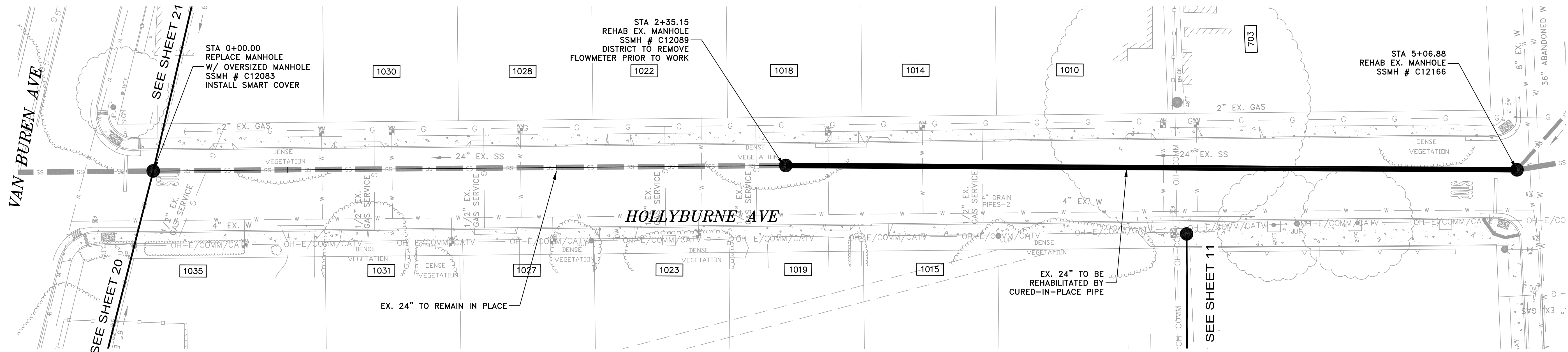
144 North San Mateo Drive • San Mateo, CA 94401  
 (650)344-9901 • Fax (650)344-9920 • www.freyerlaureta.com

**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY  
 PROJECT No. 1761.5



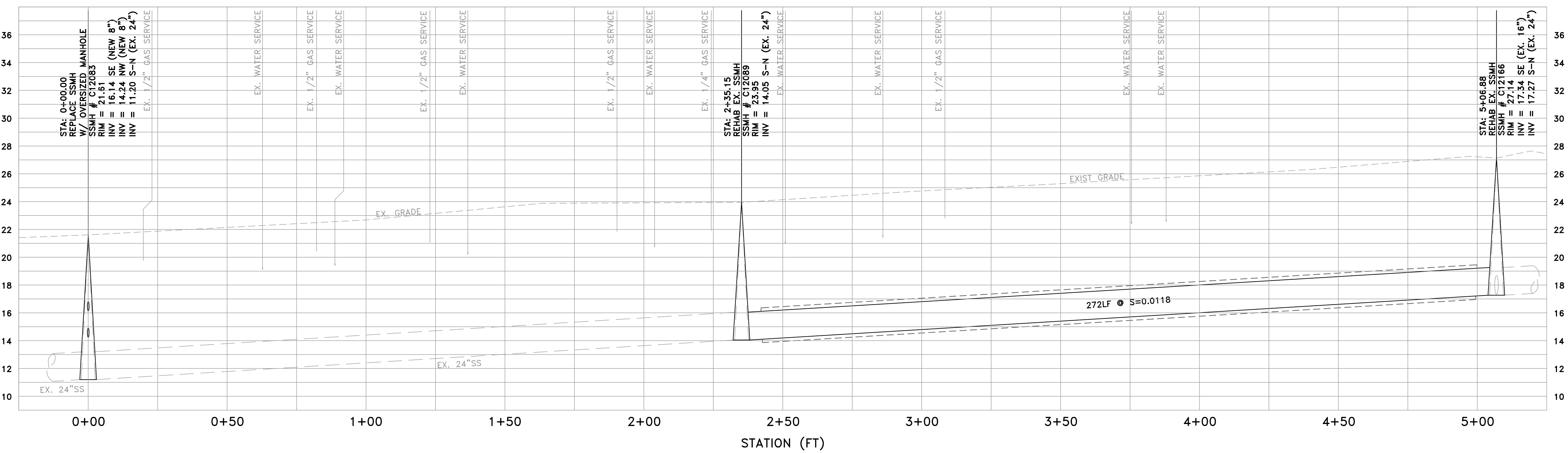
**NORTH BAY ROAD AND RINGWOOD AVENUE**  
**EASEMENT (WINDERMERE / HOLLYBURNE)**  
**WEST TO EAST**  
**MENLO PARK, CALIFORNIA**

SHEET	11
JOB NO.	1086



**NOTES:**

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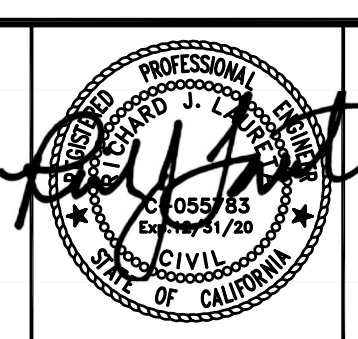
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 HORIZ: 1" = 20'  
 VERT: 1" = 4'

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BY	DATE	DESCRIPTION OF REVISIONS	APP'D

**FREYER & LAURETA, INC.**  
 CIVIL ENGINEERS • SURVEYORS • CONSTRUCTION MANAGERS

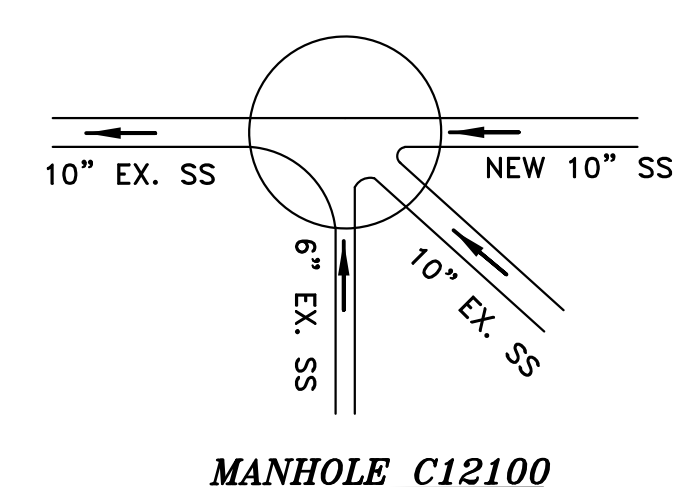
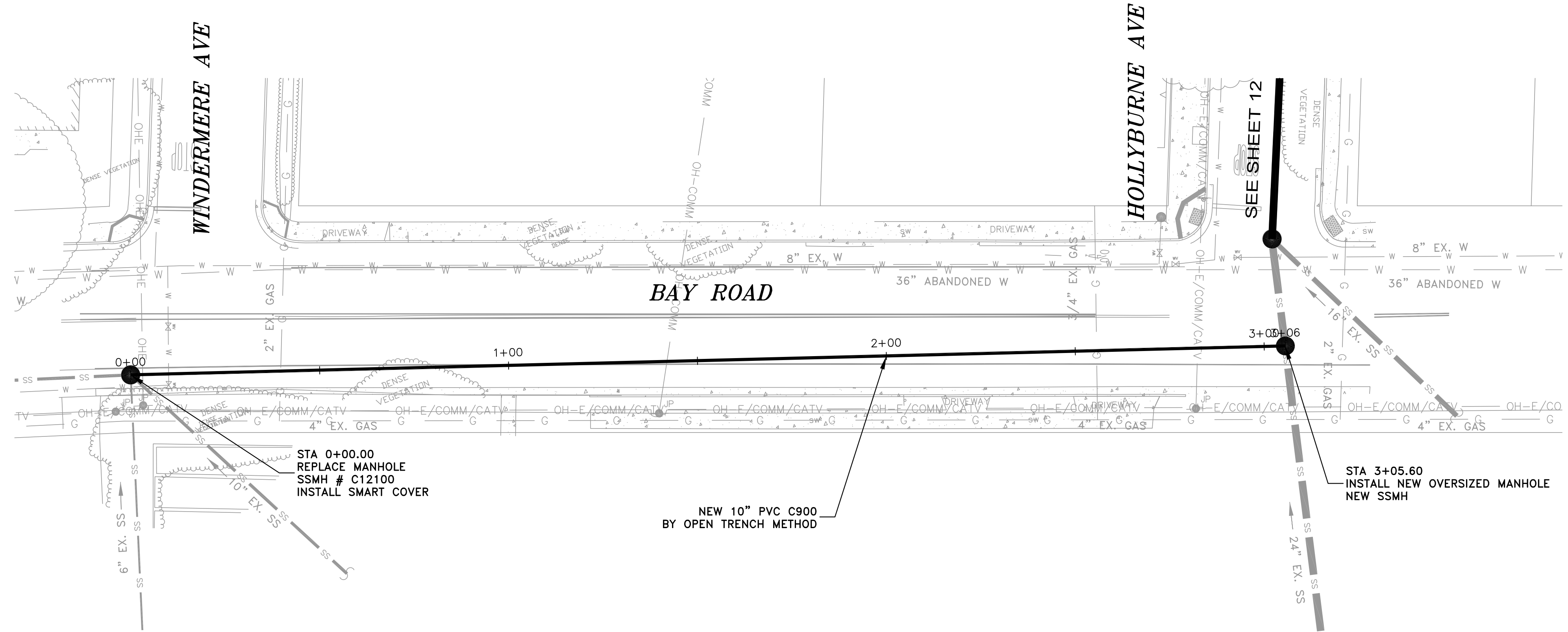
144 North San Mateo Drive • San Mateo, CA 94401  
 (650)344-9901 • Fax (650)344-9920 • www.freyerlaureta.com

**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY  
 PROJECT No. 1761.5

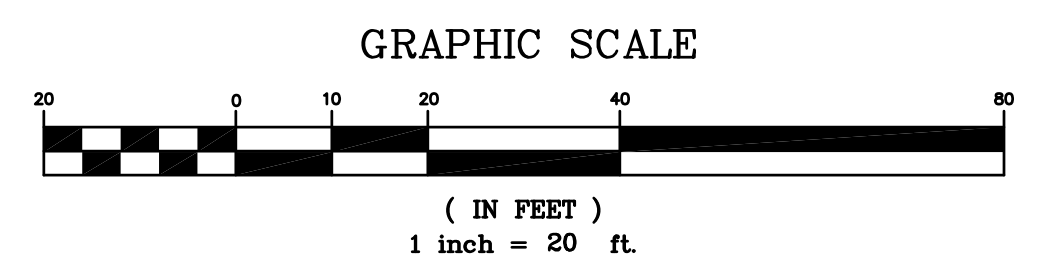


**NORTH BAY ROAD AND RINGWOOD AVENUE**  
**HOLLYBURNE AVENUE**  
**STA 0+00 - 5+07**  
**MENLO PARK, CALIFORNIA**

SHEET	12
JOB NO.	1086

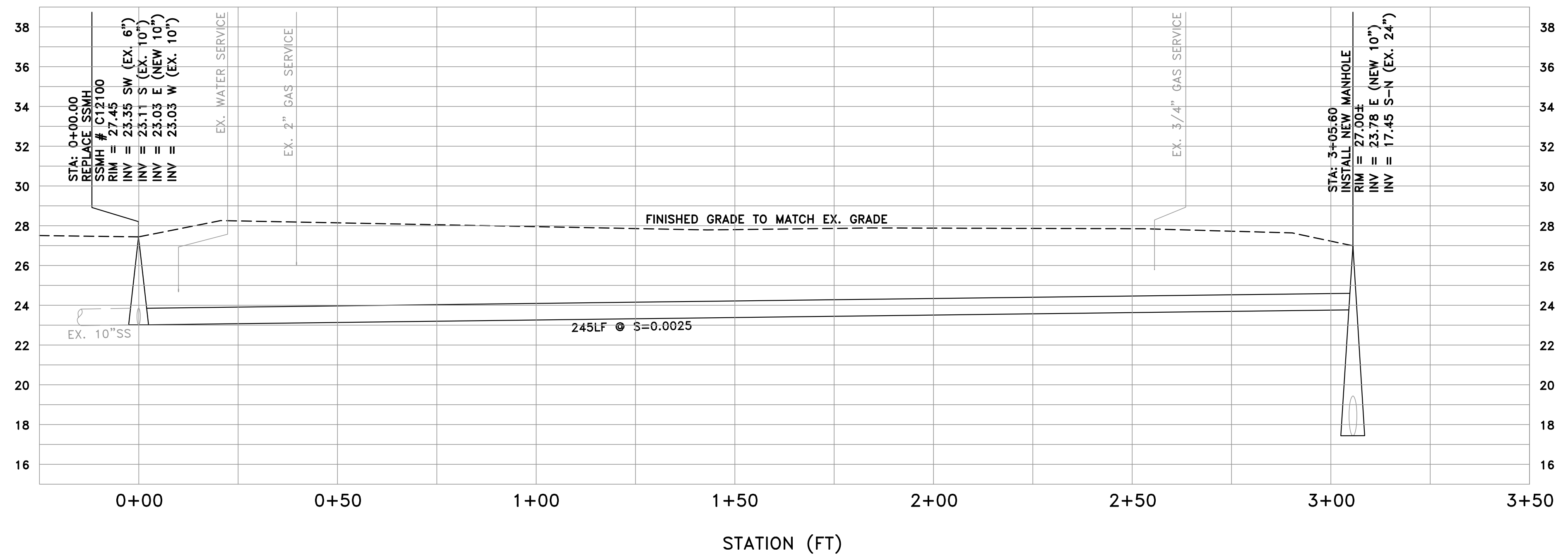


**MANHOLE C12100**



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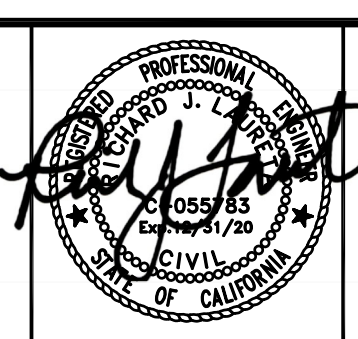
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**FL FREYER & LAURETA, INC.**  
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**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY

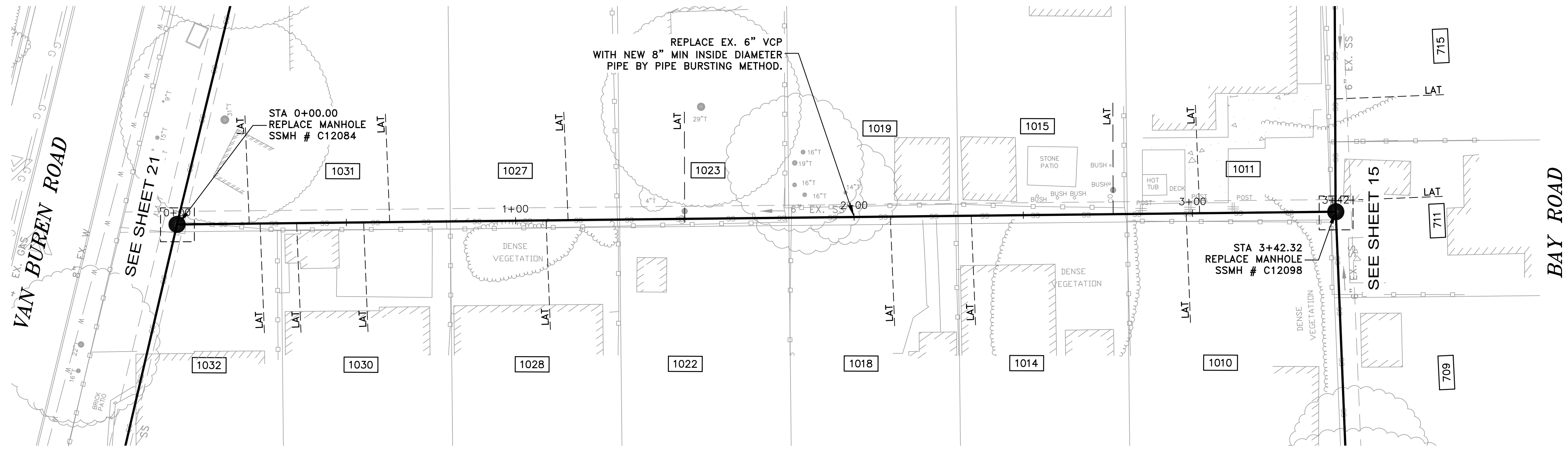
PROJECT No. 1761.5



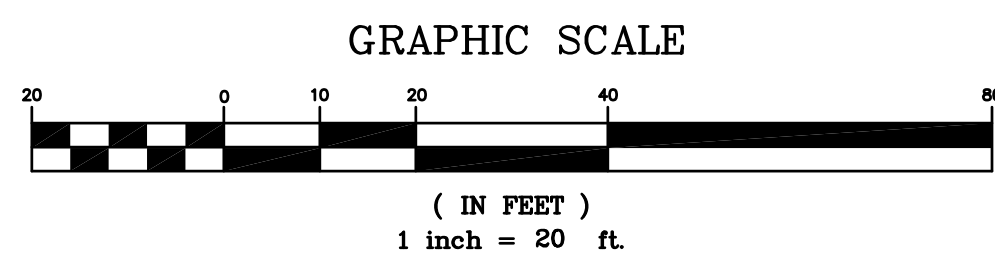
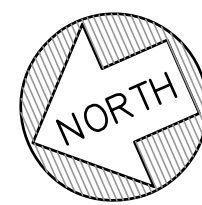
**NORTH BAY ROAD AND RINGWOOD AVENUE**  
**HOLLYBURNE AVENUE & BAY ROAD**  
**STA 0+00 - 3+06**  
**MENLO PARK, CALIFORNIA**

SHEET	13
JOB NO.	1086

SEVIER AVE

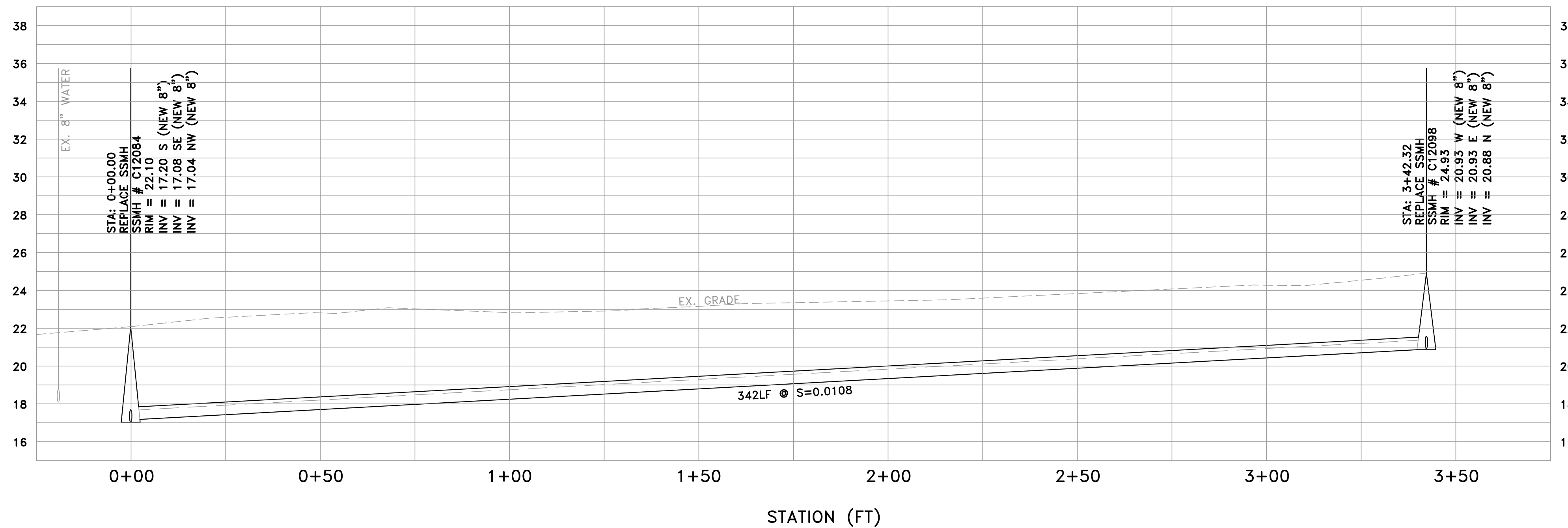


HOLLYBURNE AVE



NOTES:

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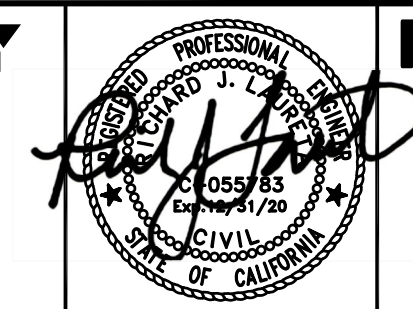
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PROJ. ENGR:	RJL		
BY	DATE	DESCRIPTION OF REVISIONS	APP'D

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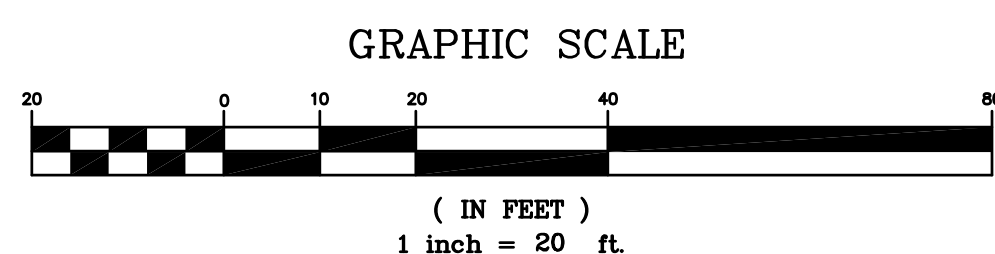
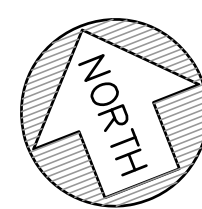
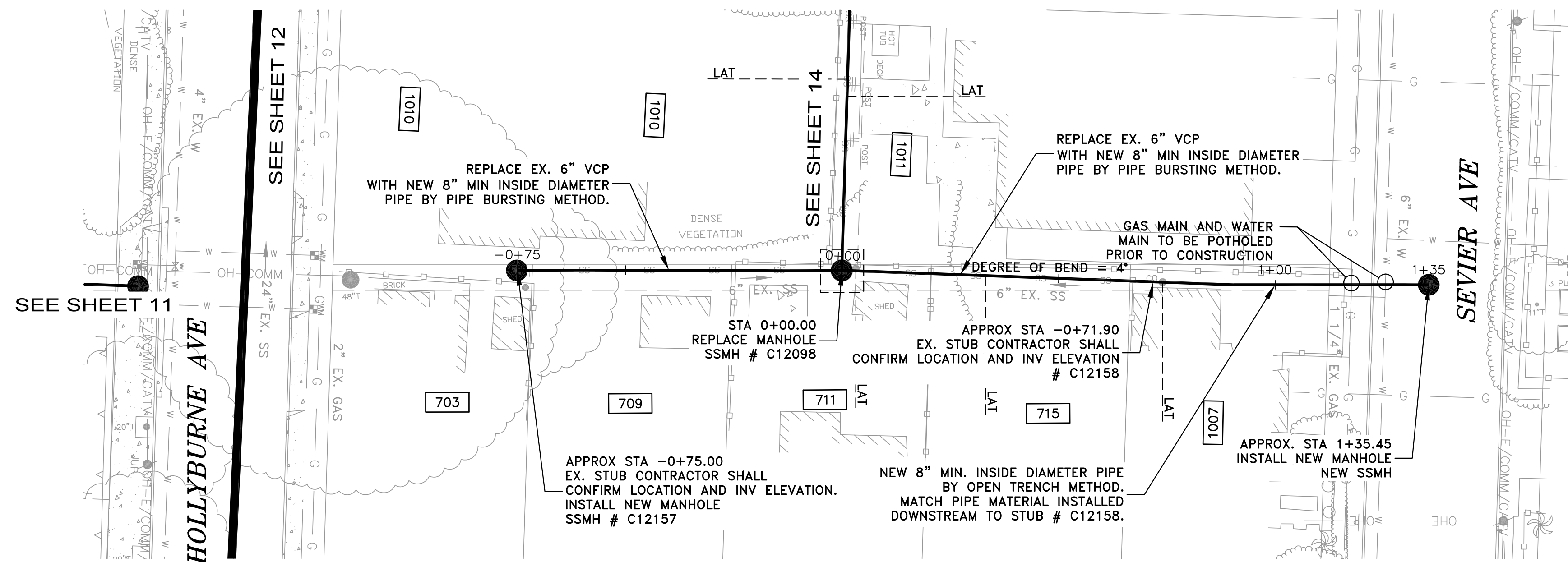
**WEST BAY**  
SANITARY DISTRICT  
SAN MATEO COUNTY

PROJECT No. 1761.5



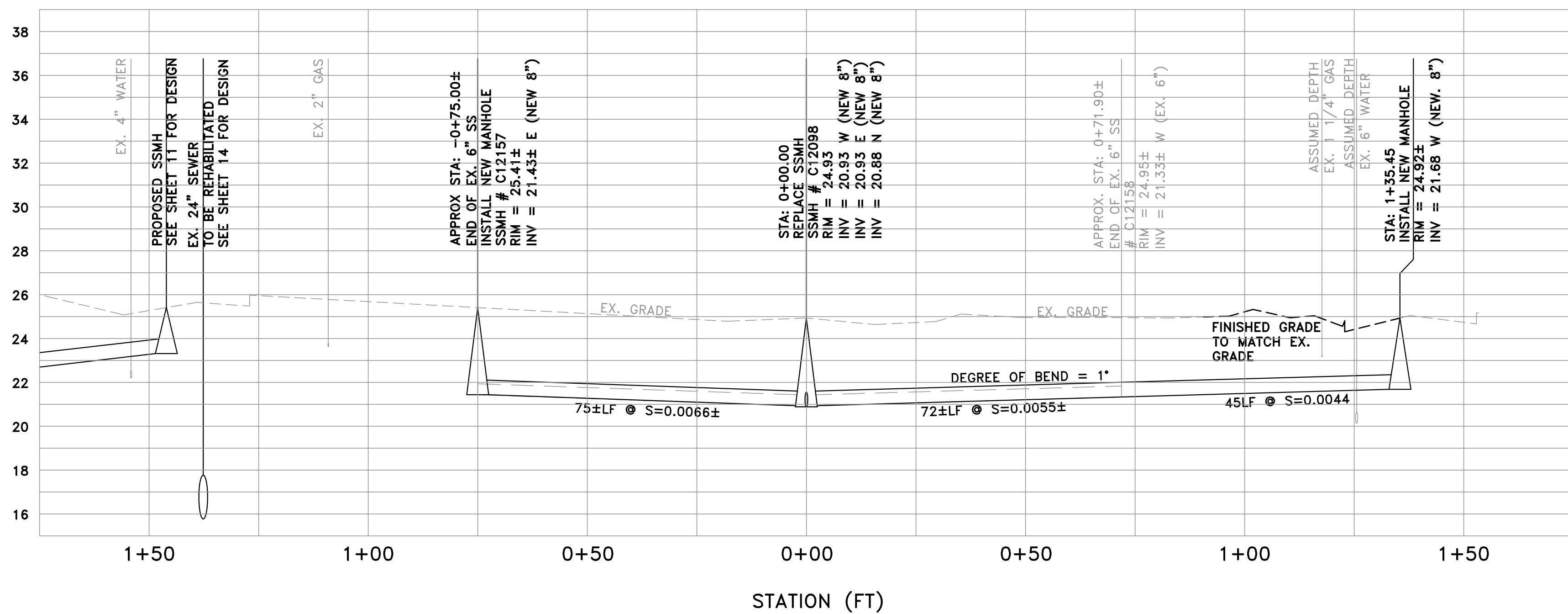
**NORTH BAY ROAD AND RINGWOOD AVENUE**  
EASEMENT (HOLLYBURNE / SEVIER)  
STA 0+00 - 3+43  
MENLO PARK, CALIFORNIA

SHEET  
14  
JOB NO.  
1086



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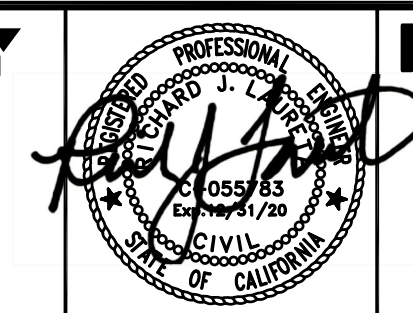
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**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY

PROJECT No. 1761.5

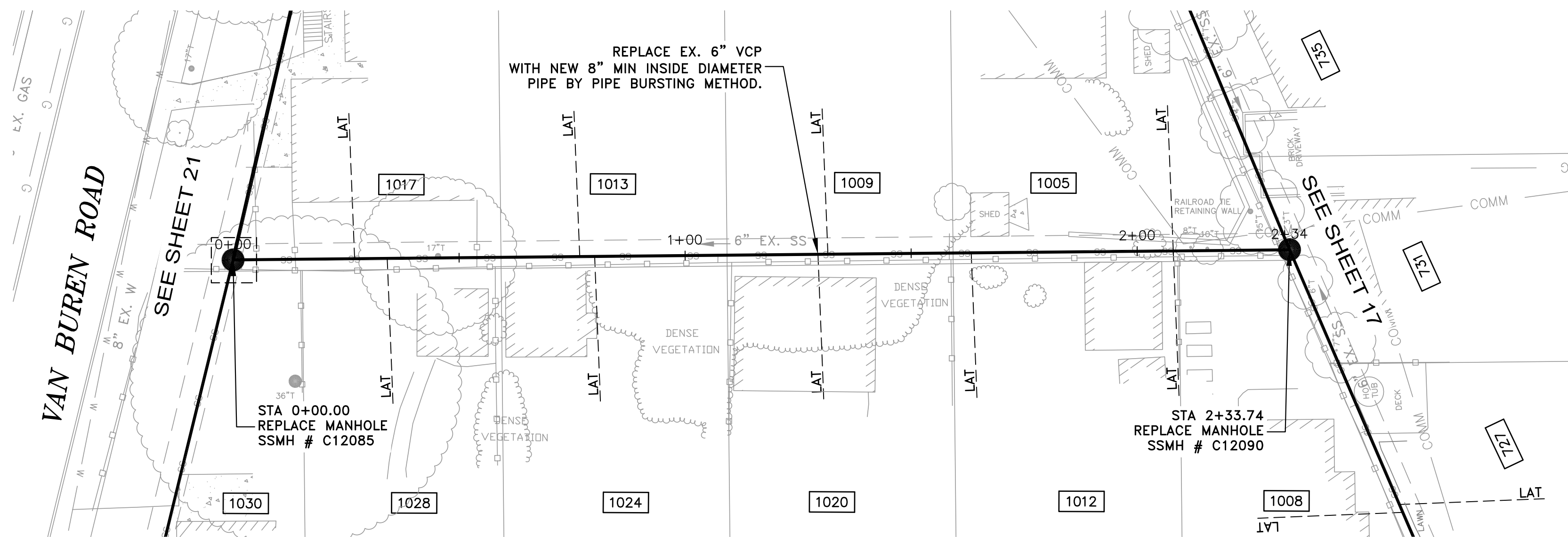


**NORTH BAY ROAD AND RINGWOOD AVENUE**  
**EASEMENT (HOLLYBURNE / SEVIER)**  
**WEST TO EAST**  
**MENLO PARK, CALIFORNIA**

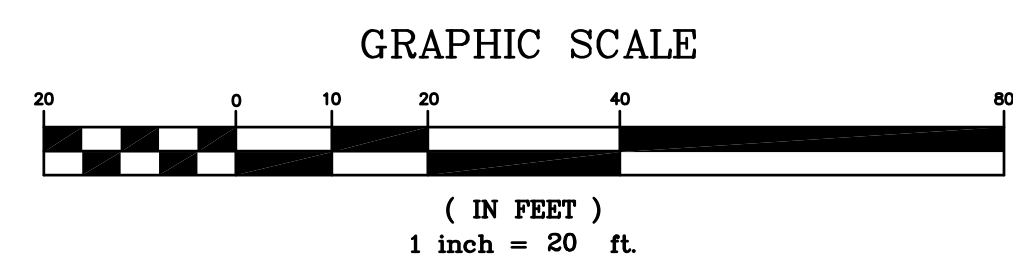
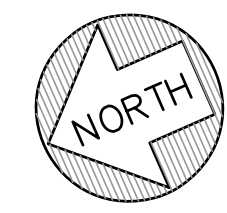
SHEET  
**15**  
 JOB NO.  
**1086**



MADERA AVE

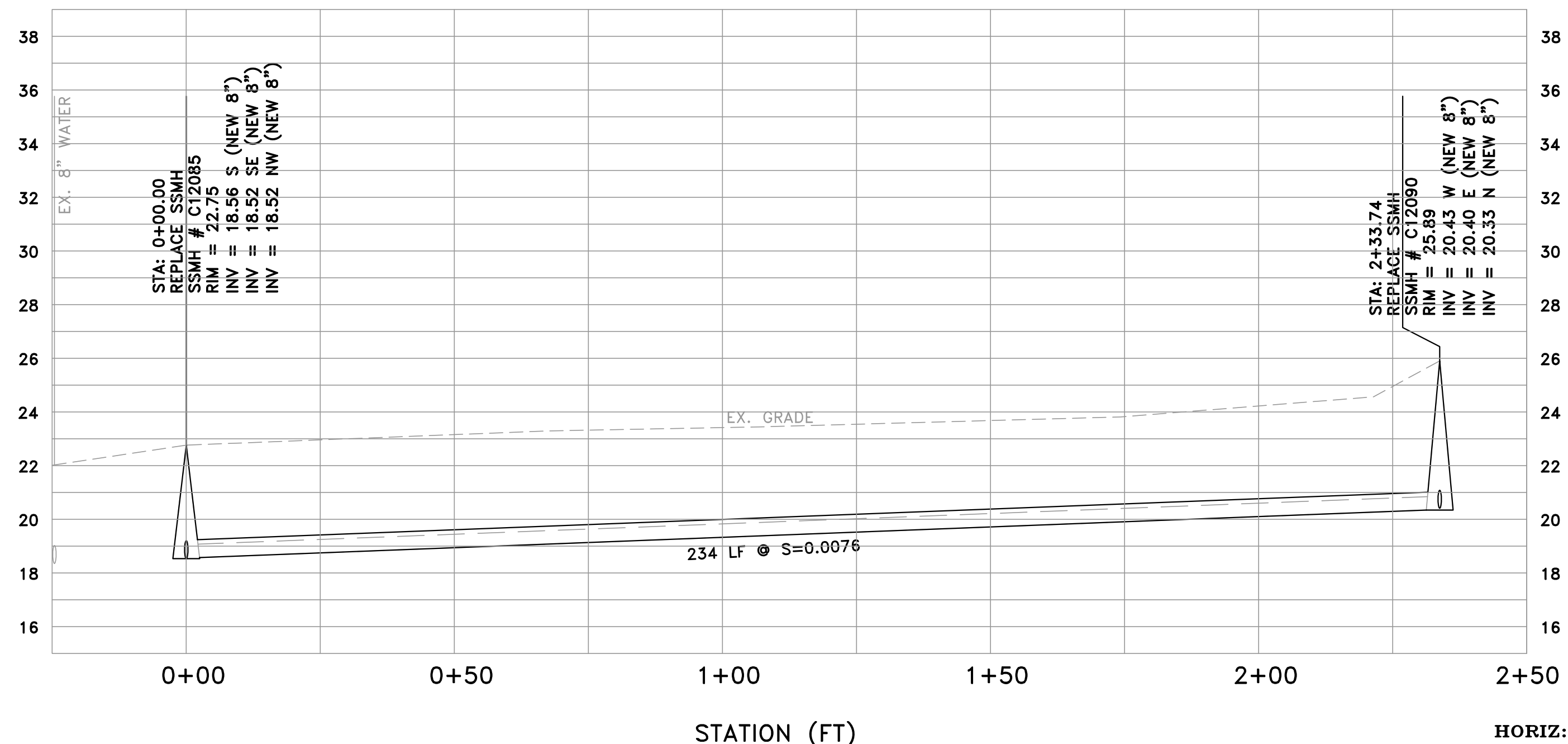


SEVIER AVE



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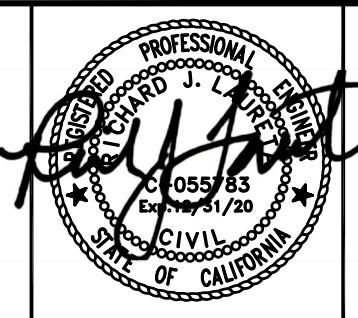
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**FL FREYER & LAURETA, INC.**  
CIVIL ENGINEERS • SURVEYORS • CONSTRUCTION MANAGERS

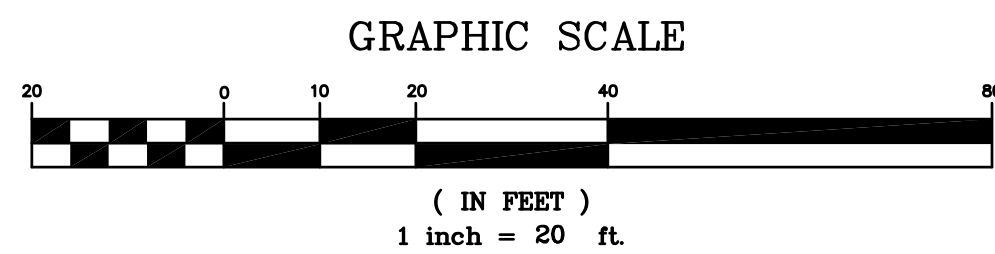
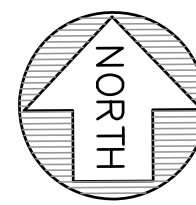
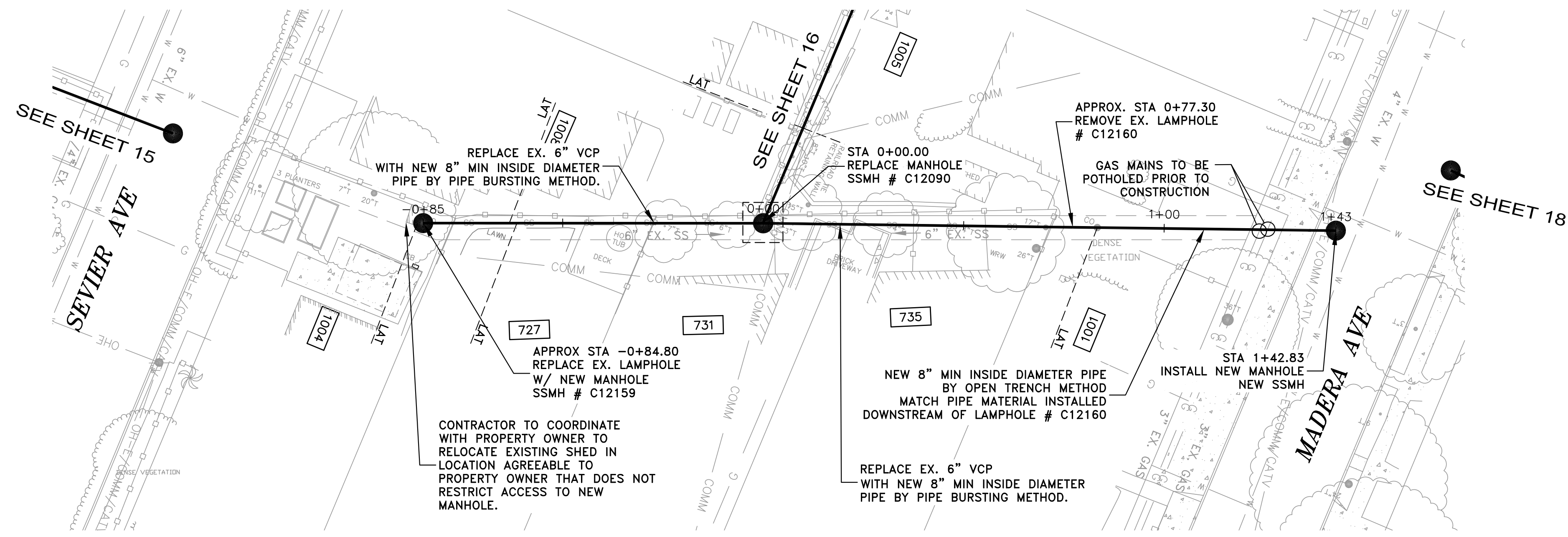
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**WEST BAY**  
SANITARY DISTRICT  
SAN MATEO COUNTY  
PROJECT No. 1761.5



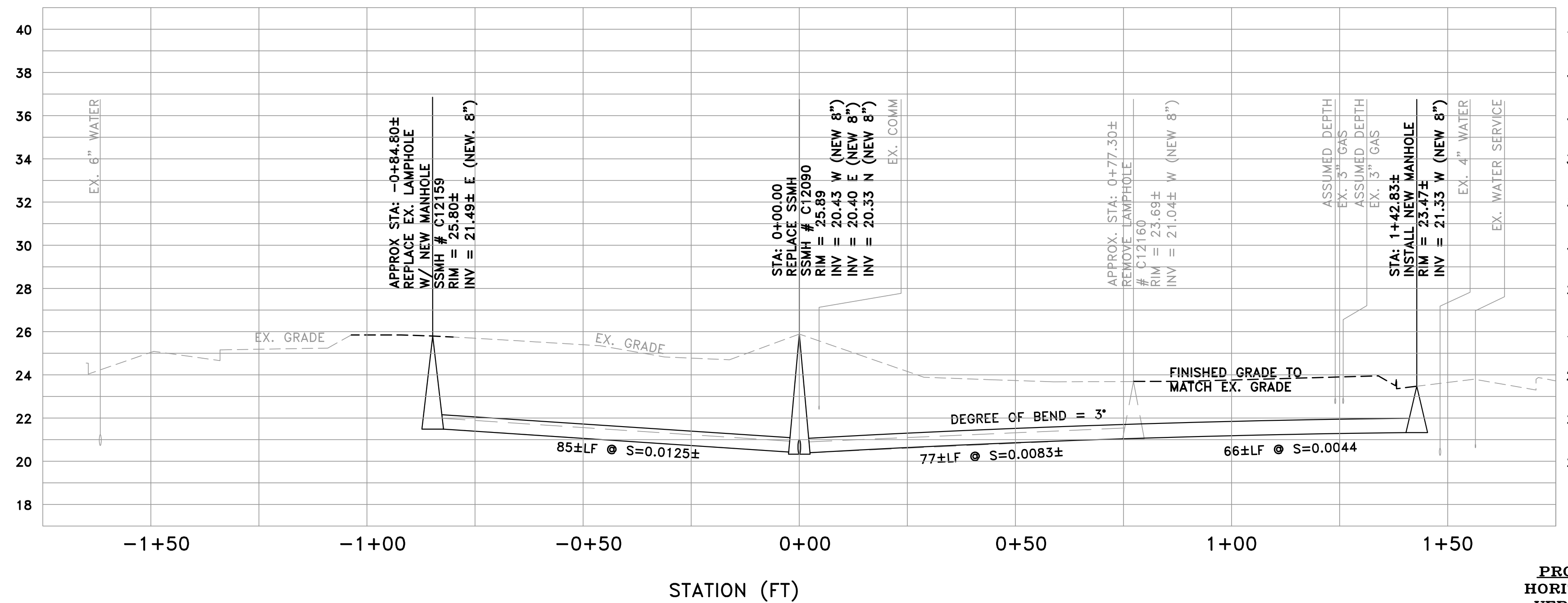
**NORTH BAY ROAD AND RINGWOOD AVENUE**  
EASEMENT (SEVIER / MADERA)  
STA 0+00 - 2+33  
MENLO PARK, CALIFORNIA

SHEET	16
JOB NO.	1086



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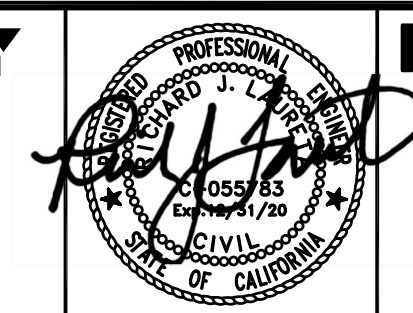
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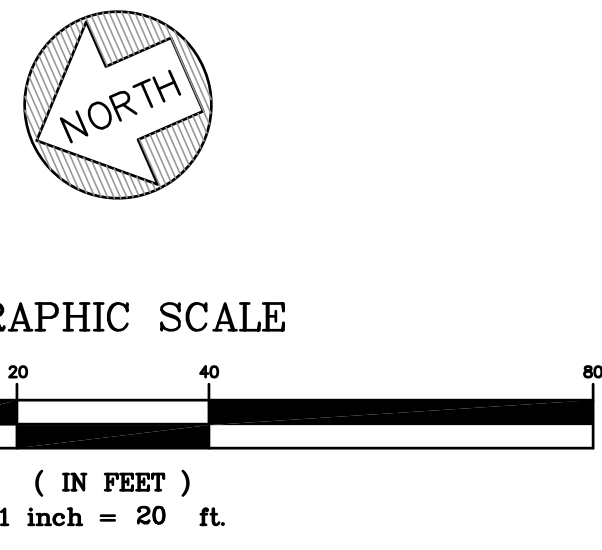
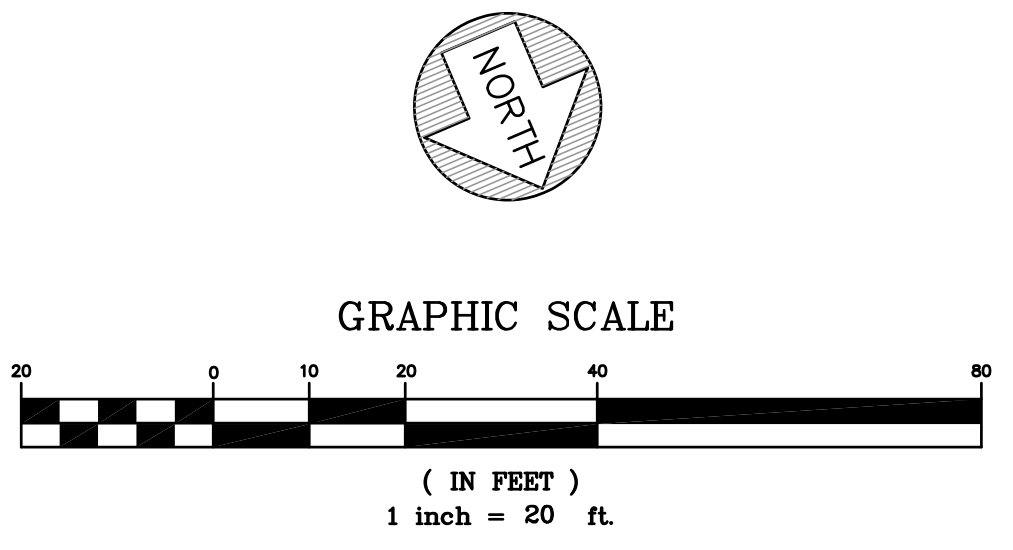
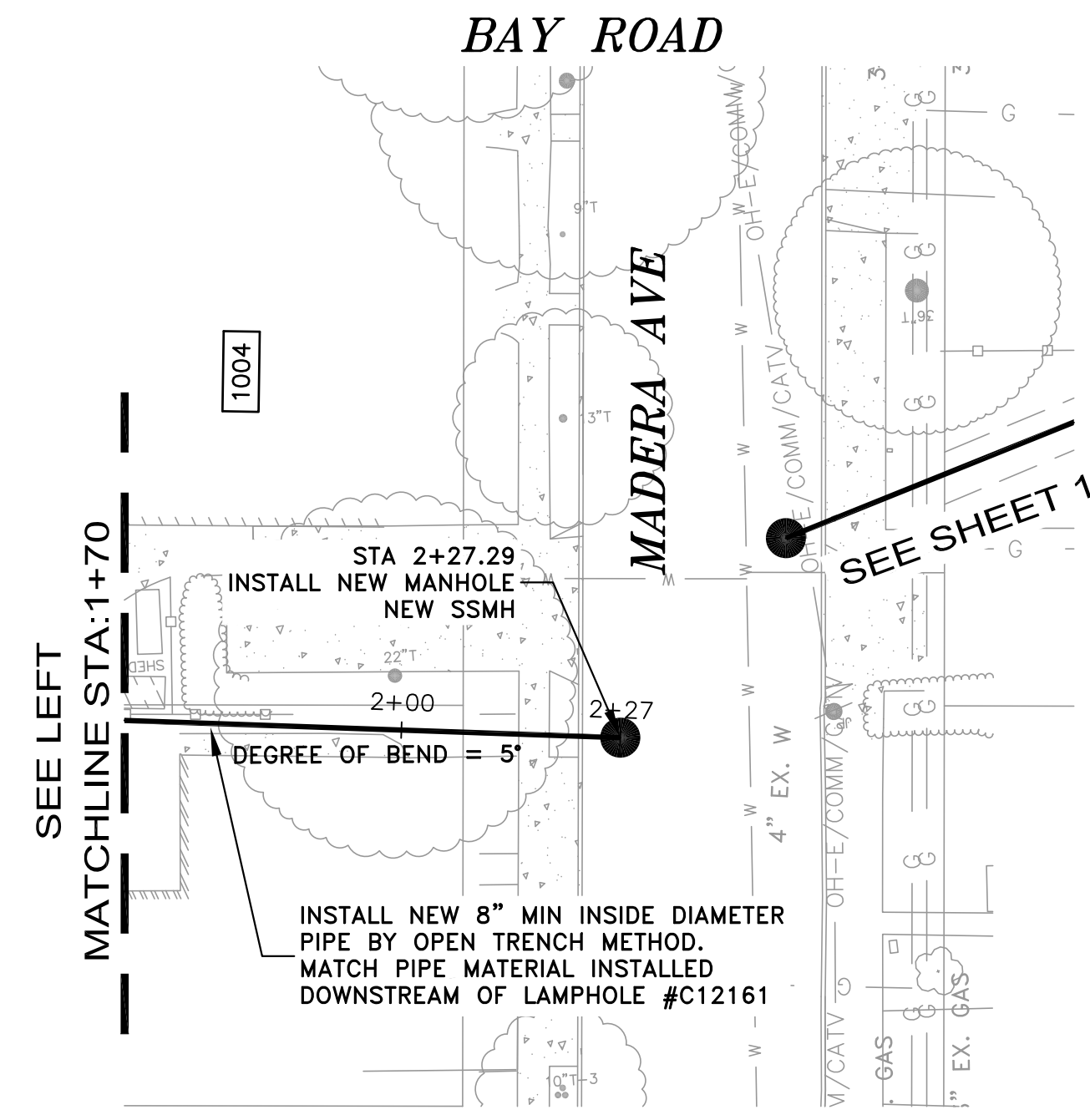
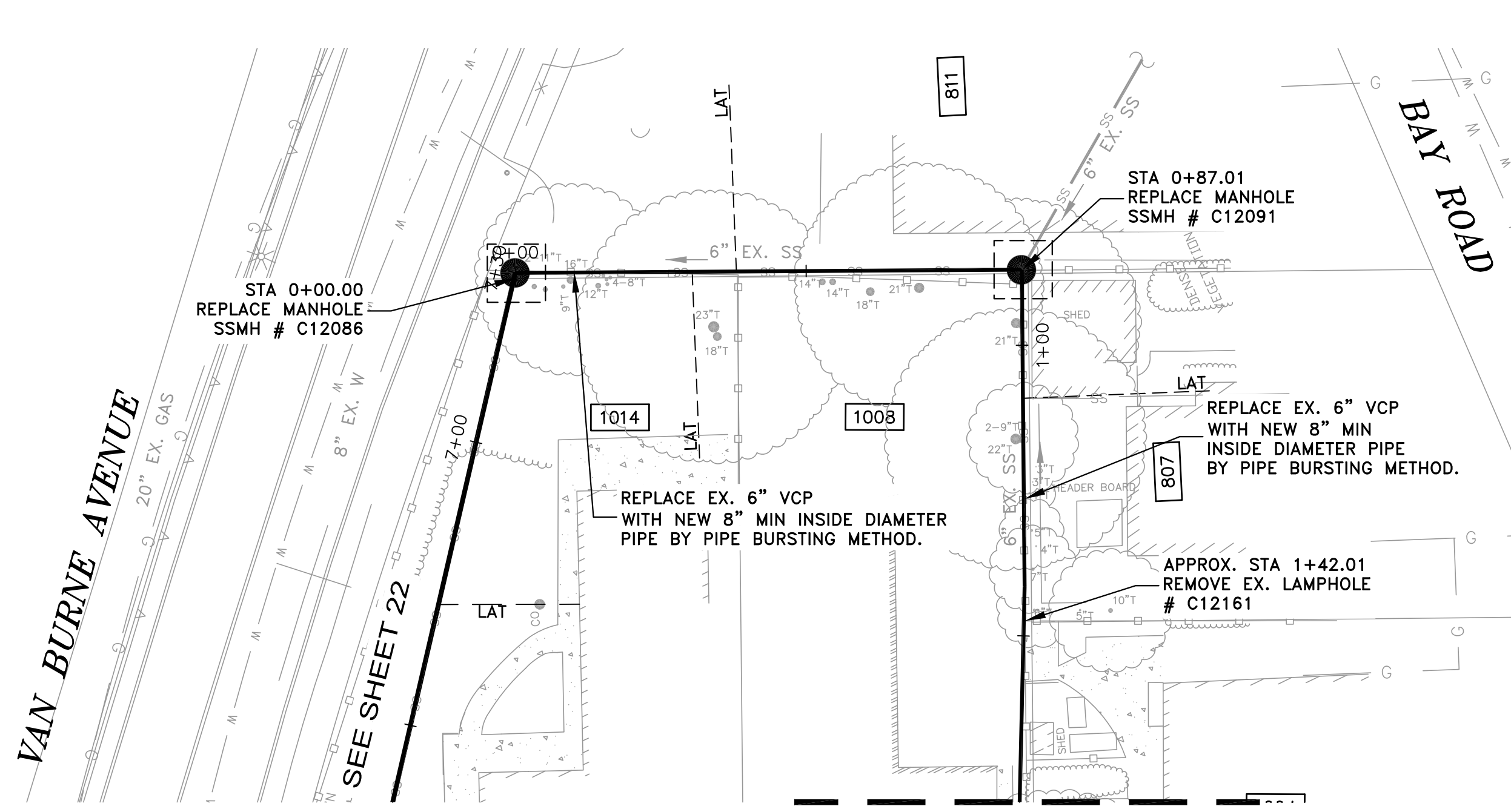
**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY

PROJECT No. 1761.5



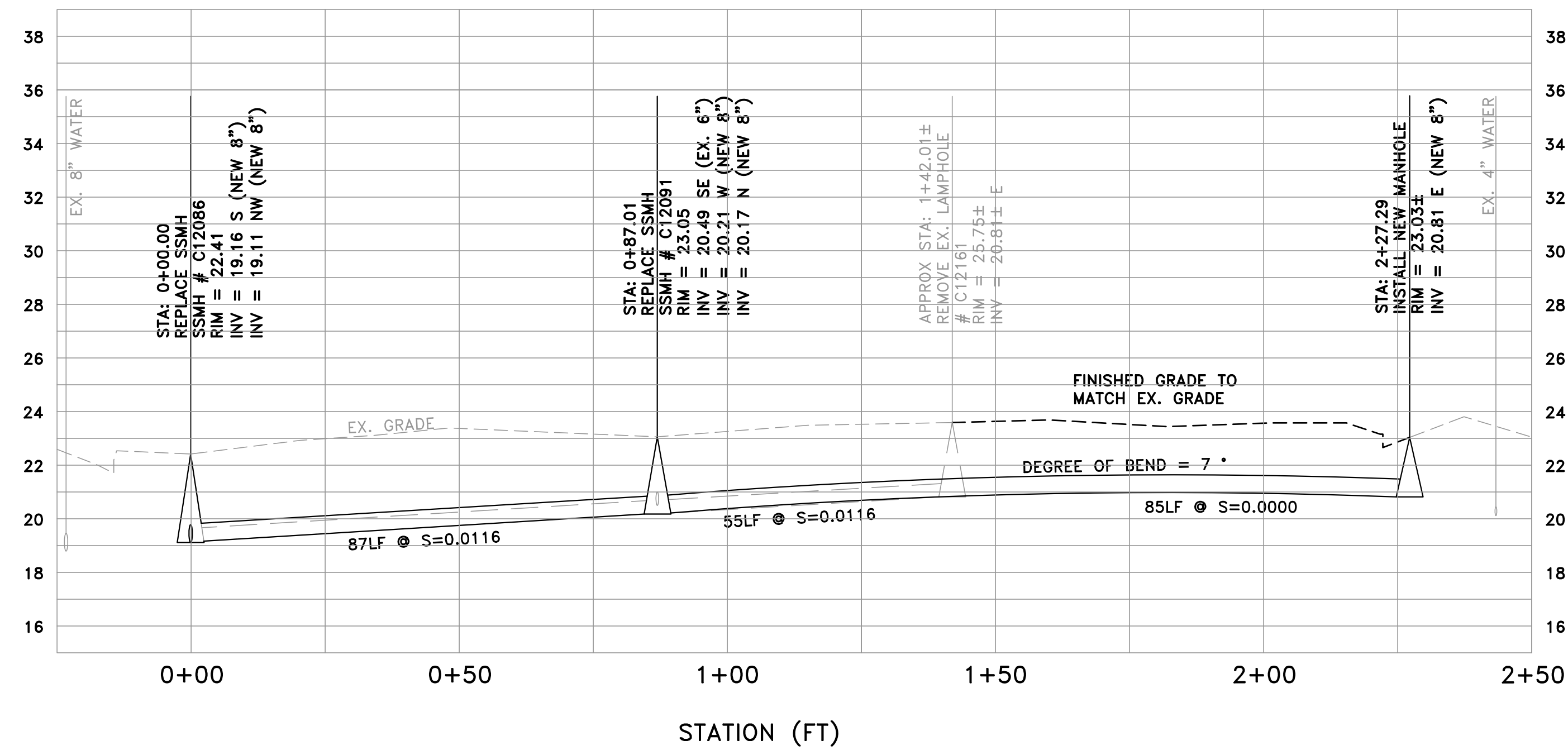
**NORTH BAY ROAD AND RINGWOOD AVENUE**  
**EASEMENT (SEVIER / MADERA)**  
**WEST TO EAST**  
**MENLO PARK, CALIFORNIA**

SHEET  
**17**  
 JOB NO.  
**1086**



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**FL FREYER & LAURETA, INC.**  
 CIVIL ENGINEERS • SURVEYORS • CONSTRUCTION MANAGERS

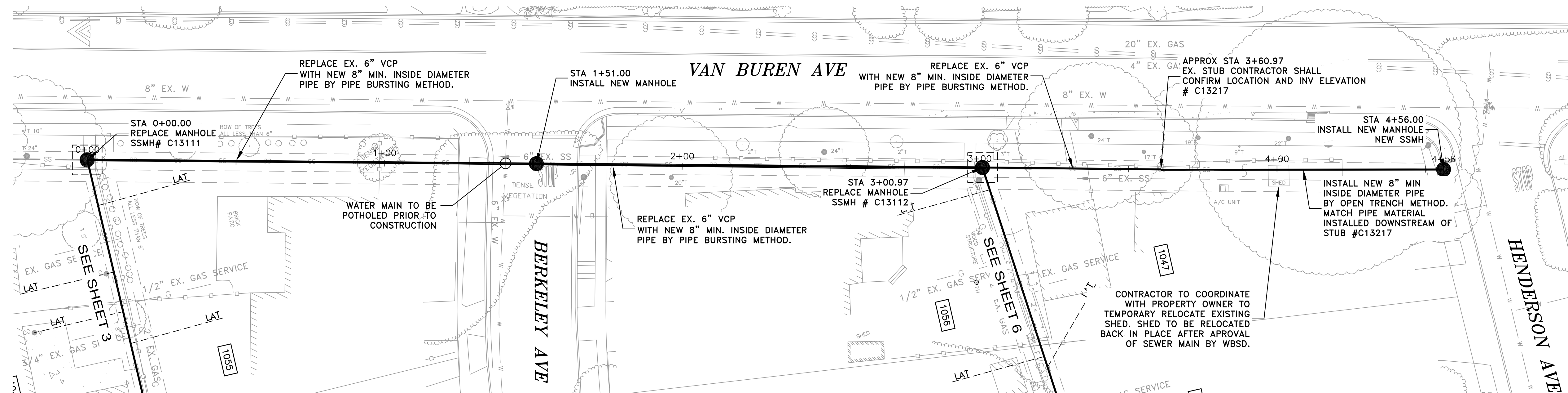
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**WEST BAY**  
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PROJECT No. 1761.5

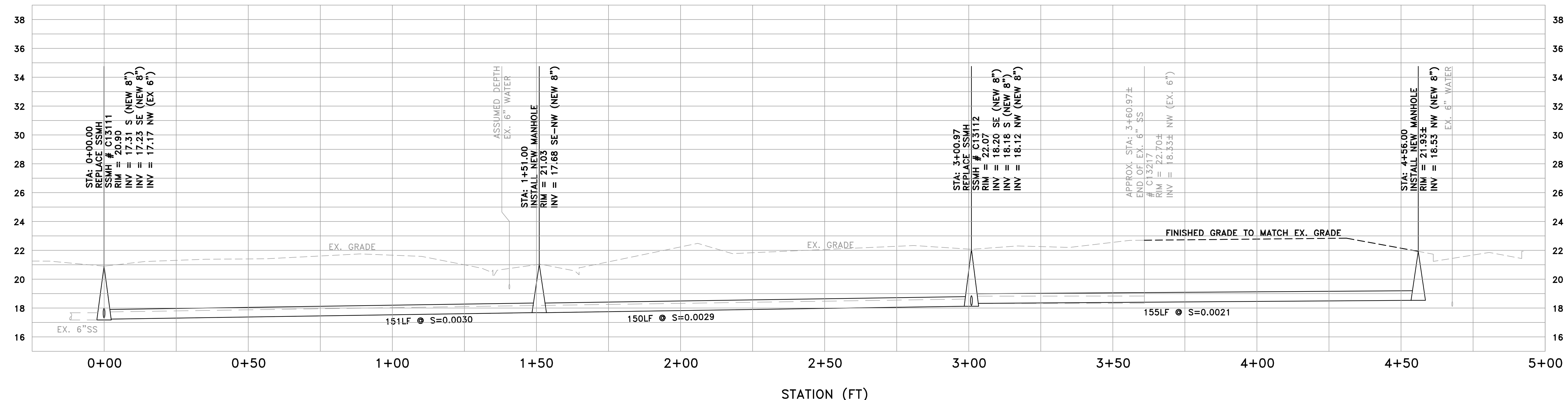
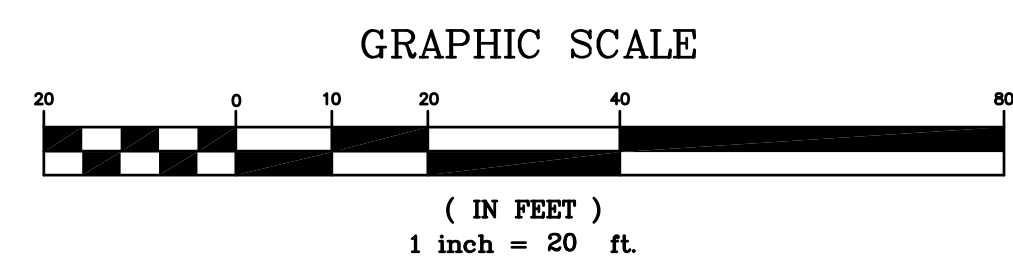
**NORTH BAY ROAD AND RINGWOOD AVENUE**  
 EASEMENT (MADERA / BAY / VAN BUREN)  
 STA 0+00 - 2+18  
 MENLO PARK, CALIFORNIA

SHEET	18
JOB NO.	1086



**NOTES:**

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- 3) FOR PIPE BURSTING SEE PROJECT STANDARD SPECIFICATION FOR PIPE INSTALLATION AND MATERIAL.
- 4) 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.
- 5) NEW MANHOLES INSTALLED IN EASEMENTS SHALL BE INSTALLED WITHIN THE LIMITS OF ONE PROPERTY.
- 6) A REPRESENTATIVE FROM PUBLIC WORKS AND THE CITY'S MUNICIPAL WATER DISTRICT MUST BE PRESENT AT ALL TIMES DURING CONSTRUCTION OPERATIONS AT CROSSINGS BETWEEN THE PROPOSED SEWER MAIN AND EXISTING WATER MAIN. CONTACT PUBLIC WORKS AND MENLO PARK MUNICIPAL WATER AT 650-330-6600 PRIOR TO COMMENCEMENT OF ANY WORK WITHIN THESE UTILITY CROSSING ZONES.
- 7) CONTRACTOR TO INFORM PG&E OF WORK NEAR PG&E'S MAJOR FACILITIES A MINIMUM OF SEVEN WORKING DAYS PRIOR TO WORK IN THE AREA TO ENSURE A PG&E REPRESENTATIVE IS ONSITE TO OBSERVE THE WORK DONE.



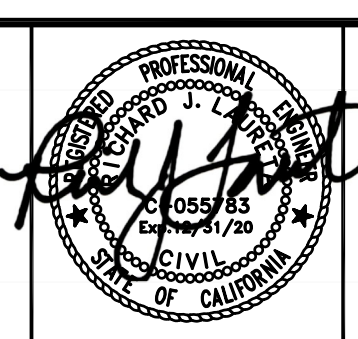
**PROFILE VIEW**  
 HORIZ: 1" = 20'  
 VERT: 1" = 4'

DATE:	10/14/2020	10/14/2020	BID SET
SCALE:	AS NOTED		
DESIGNED:	LFH & FYM		
DRAWN:	FYM		
CHECKED:	LFH		
PROJ. ENGR:	RJL		
BY	DATE	DESCRIPTION OF REVISIONS	APP'D

**FREYER & LAURETA, INC.**  
 CIVIL ENGINEERS • SURVEYORS • CONSTRUCTION MANAGERS

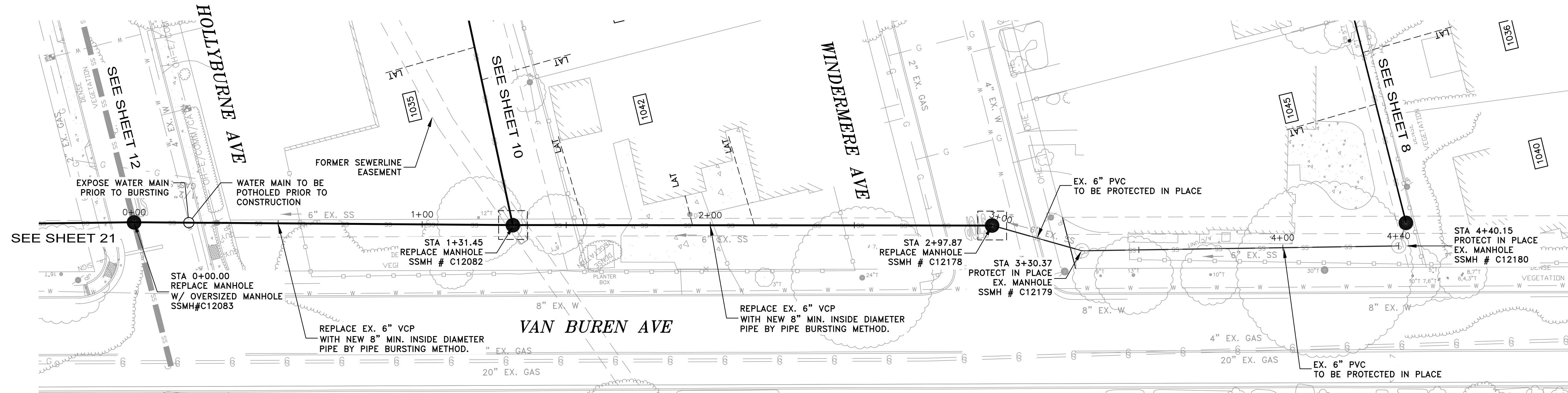
144 North San Mateo Drive • San Mateo, CA 94401  
 (650)344-9901 • Fax (650)344-9920 • www.freyerlaureta.com

**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY  
 PROJECT No. 1761.5

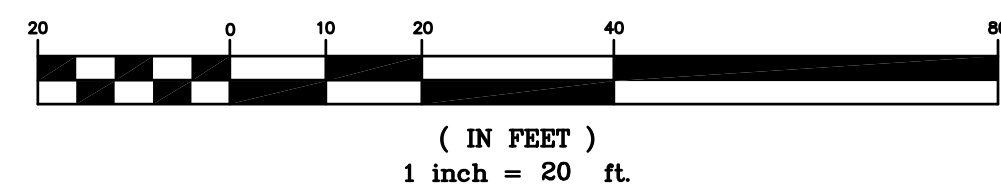


**NORTH BAY ROAD AND RINGWOOD AVENUE**  
**EASEMENT (VAN BUREN)**  
**STA 0+00 - 3+61**  
**MENLO PARK, CALIFORNIA**

SHEET	19
JOB NO.	1086

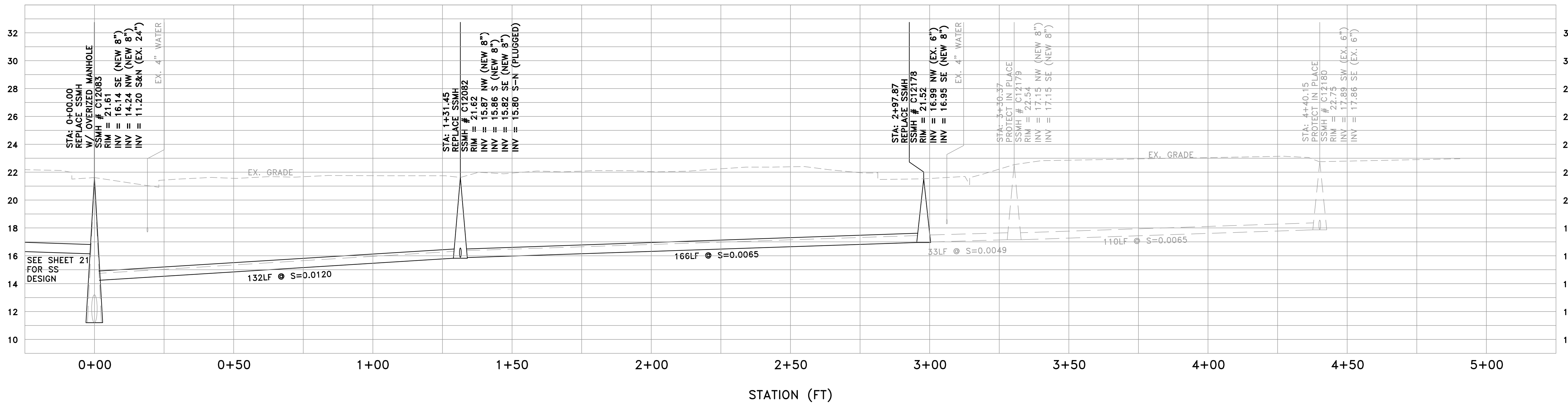


GRAPHIC SCALE



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PROFILE VIEW  
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VERT: 1" = 4'

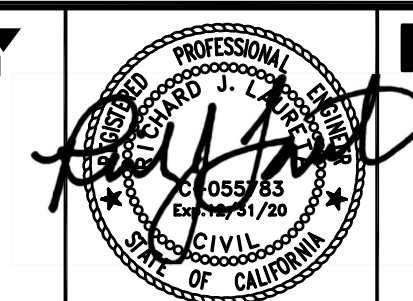
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**FL FREYER & LAURETA, INC.**  
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**WEST BAY**  
SANITARY DISTRICT  
SAN MATEO COUNTY

PROJECT No. 1761.5



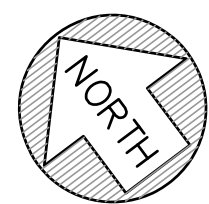
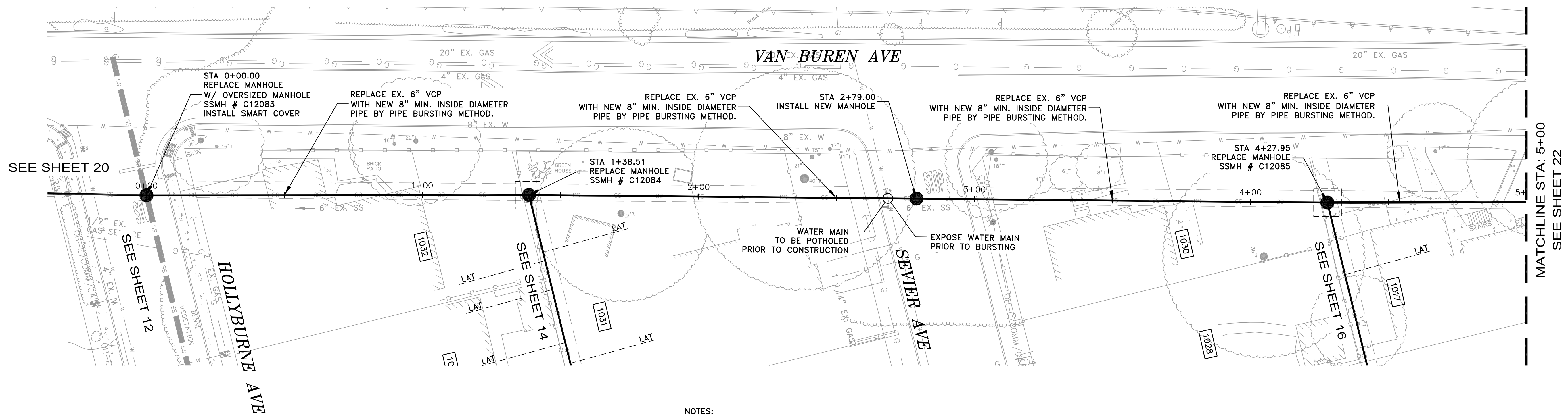
**NORTH BAY ROAD AND RINGWOOD AVENUE  
EASEMENT (VAN BUREN)  
STA 0+00 - 4+40  
MENLO PARK, CALIFORNIA**

SHEET

20

JOB NO.

1086



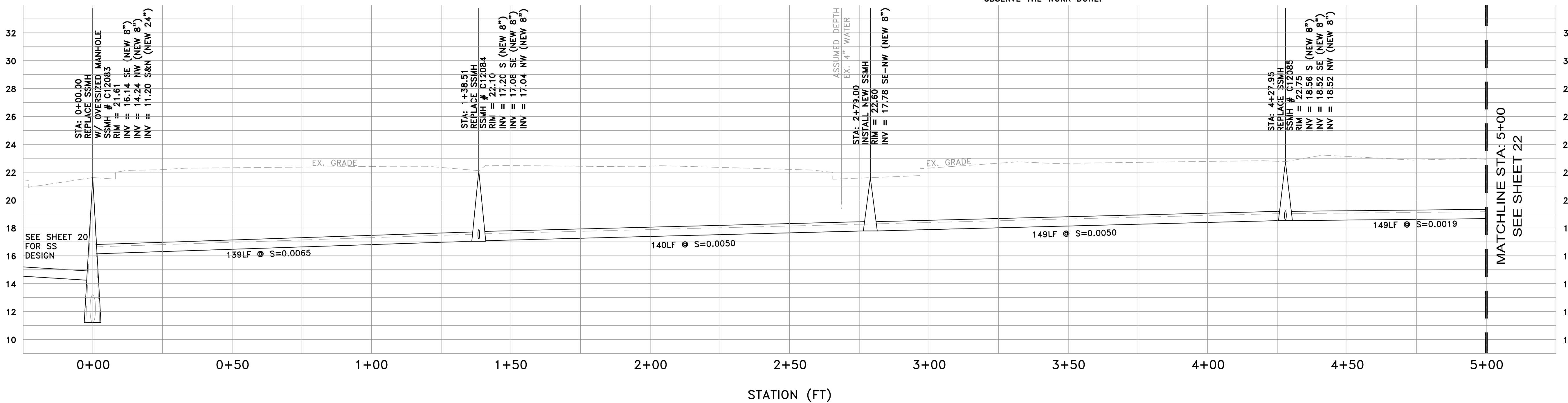
GRAPHIC SCALE



( IN FEET )  
1 inch = 20 ft.

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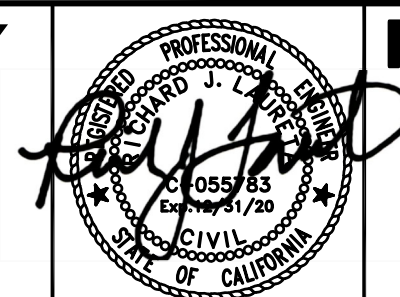
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BY	DATE	DESCRIPTION OF REVISIONS	APP'D

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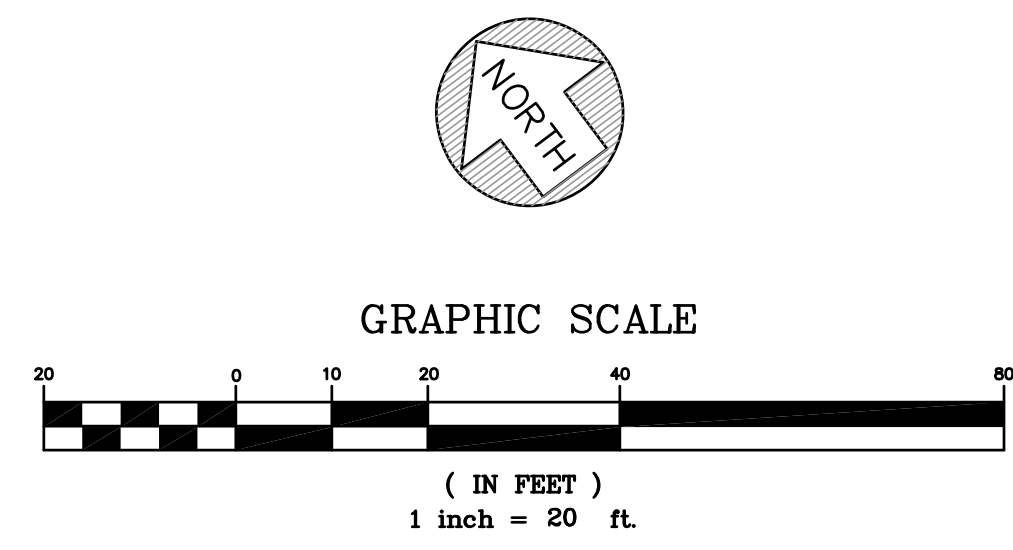
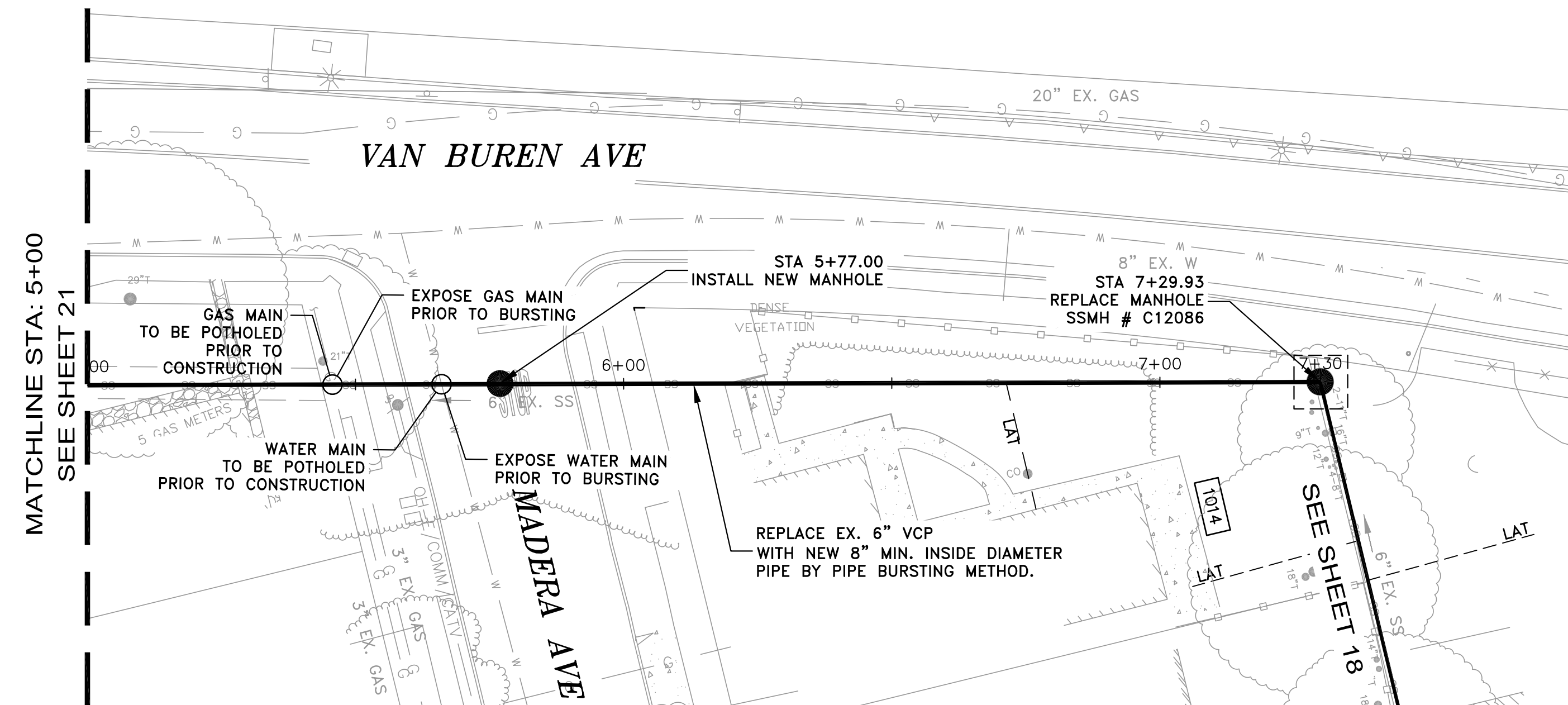
**WEST BAY**  
SANITARY DISTRICT  
SAN MATEO COUNTY

PROJECT No. 1761.5



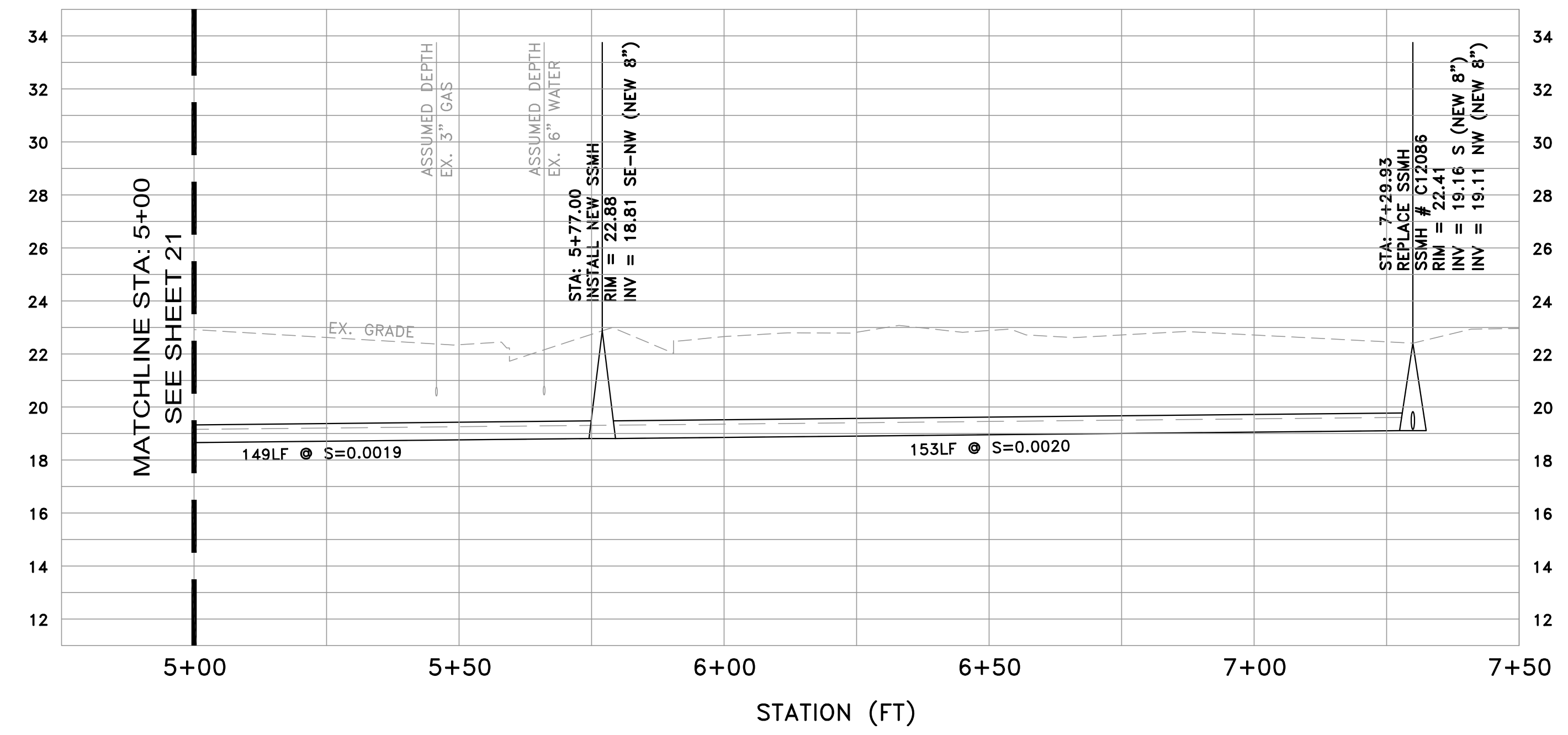
**NORTH BAY ROAD AND RINGWOOD AVENUE  
EASEMENT (VAN BUREN)  
STA 0+00 - 5+00  
MENLO PARK, CALIFORNIA**

SHEET  
**21**  
JOB No.  
**1086**



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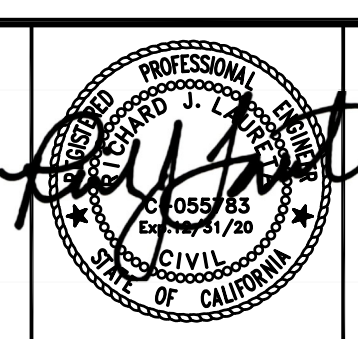
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BY	DATE	DESCRIPTION OF REVISIONS	APP'D

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**WEST BAY**  
SANITARY DISTRICT  
SAN MATEO COUNTY

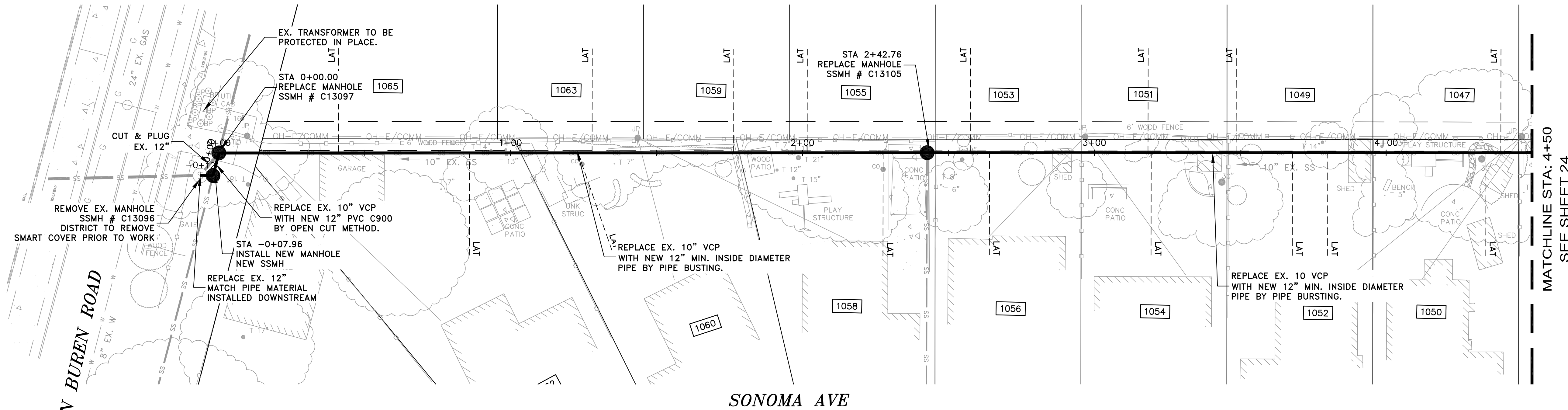
PROJECT No. 1761.5



**NORTH BAY ROAD AND RINGWOOD AVENUE  
EASEMENT (VAN BUREN)  
STA 5+00 - 7+30  
MENLO PARK, CALIFORNIA**

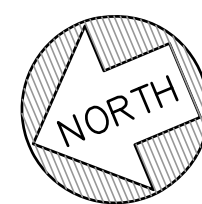
SHEET	22
JOB NO.	1086

RINGWOOD AVE

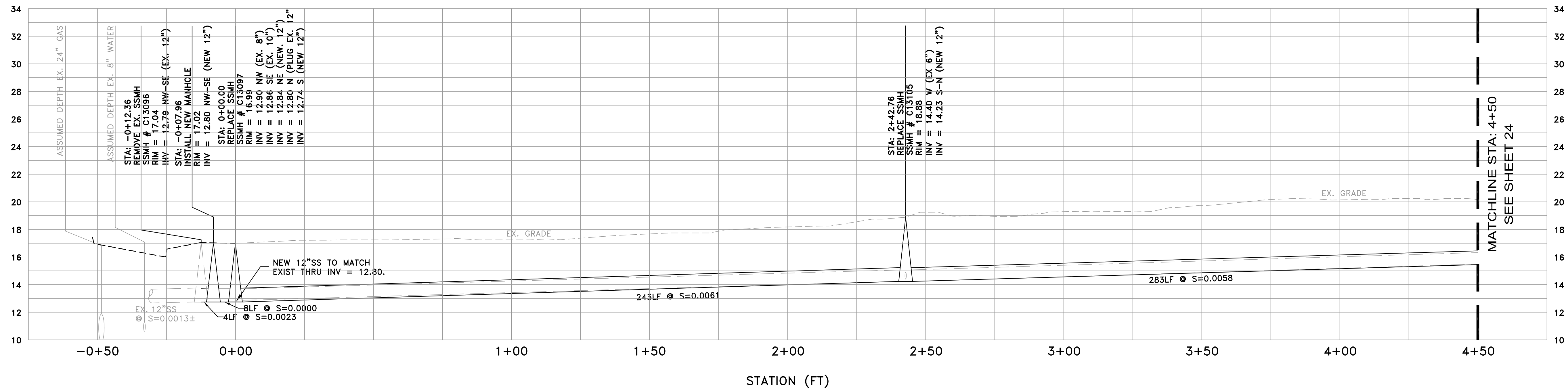
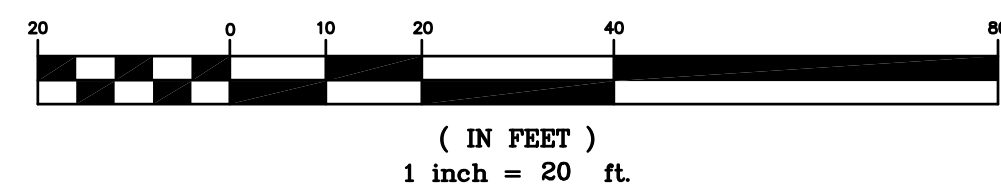


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GRAPHIC SCALE



PROFILE VIEW  
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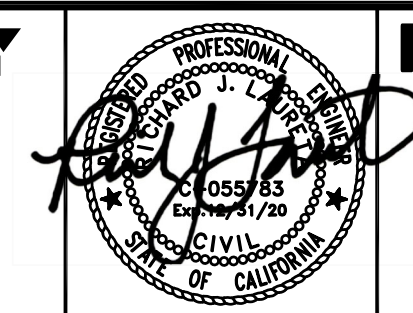
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**WEST BAY**  
SANITARY DISTRICT  
SAN MATEO COUNTY

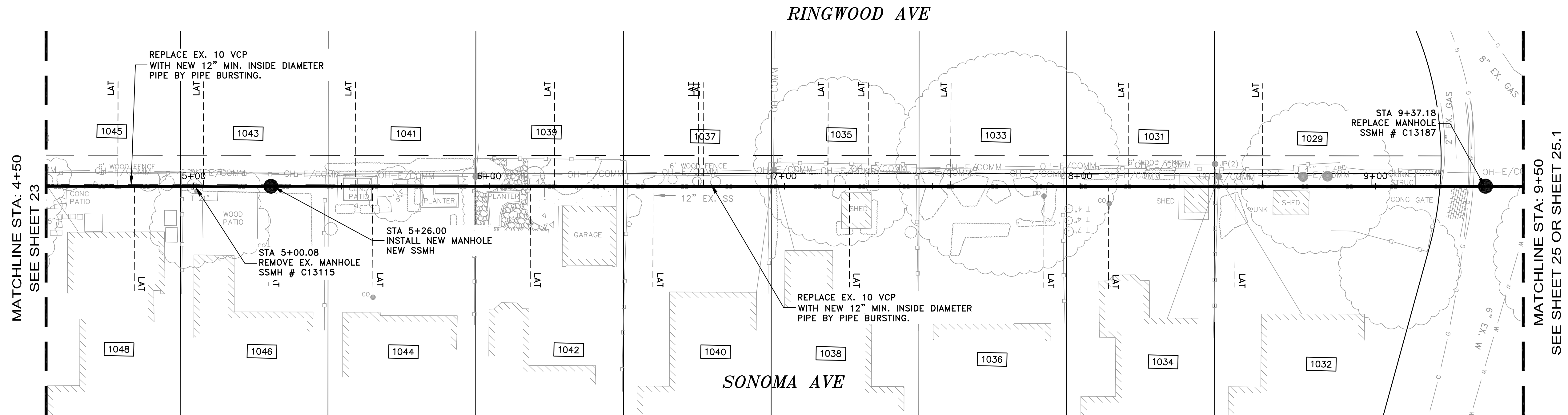
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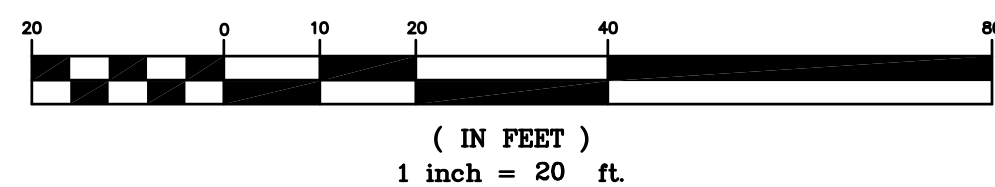
**NORTH BAY ROAD AND RINGWOOD AVENUE**  
EASEMENT (SONOMA / RINGWOOD)  
STA 0+00 - 4+50  
MENLO PARK, CALIFORNIA

SHEET  
23  
JOB NO.  
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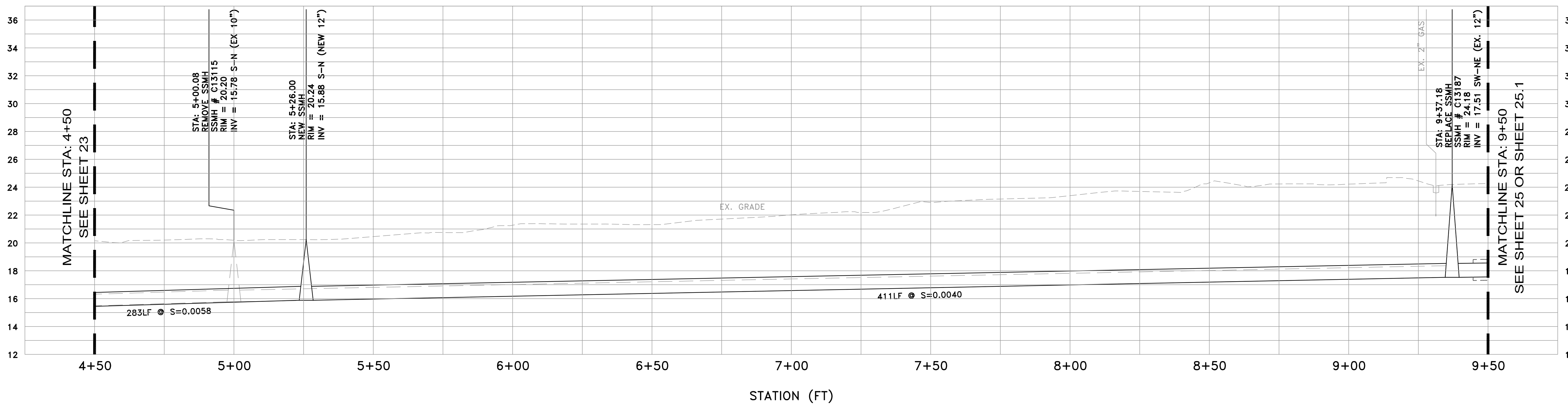


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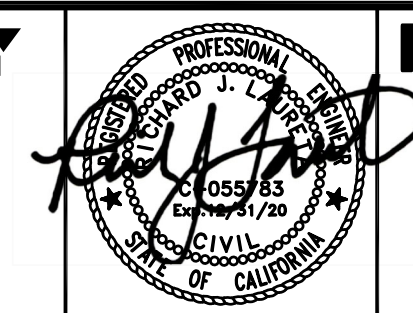
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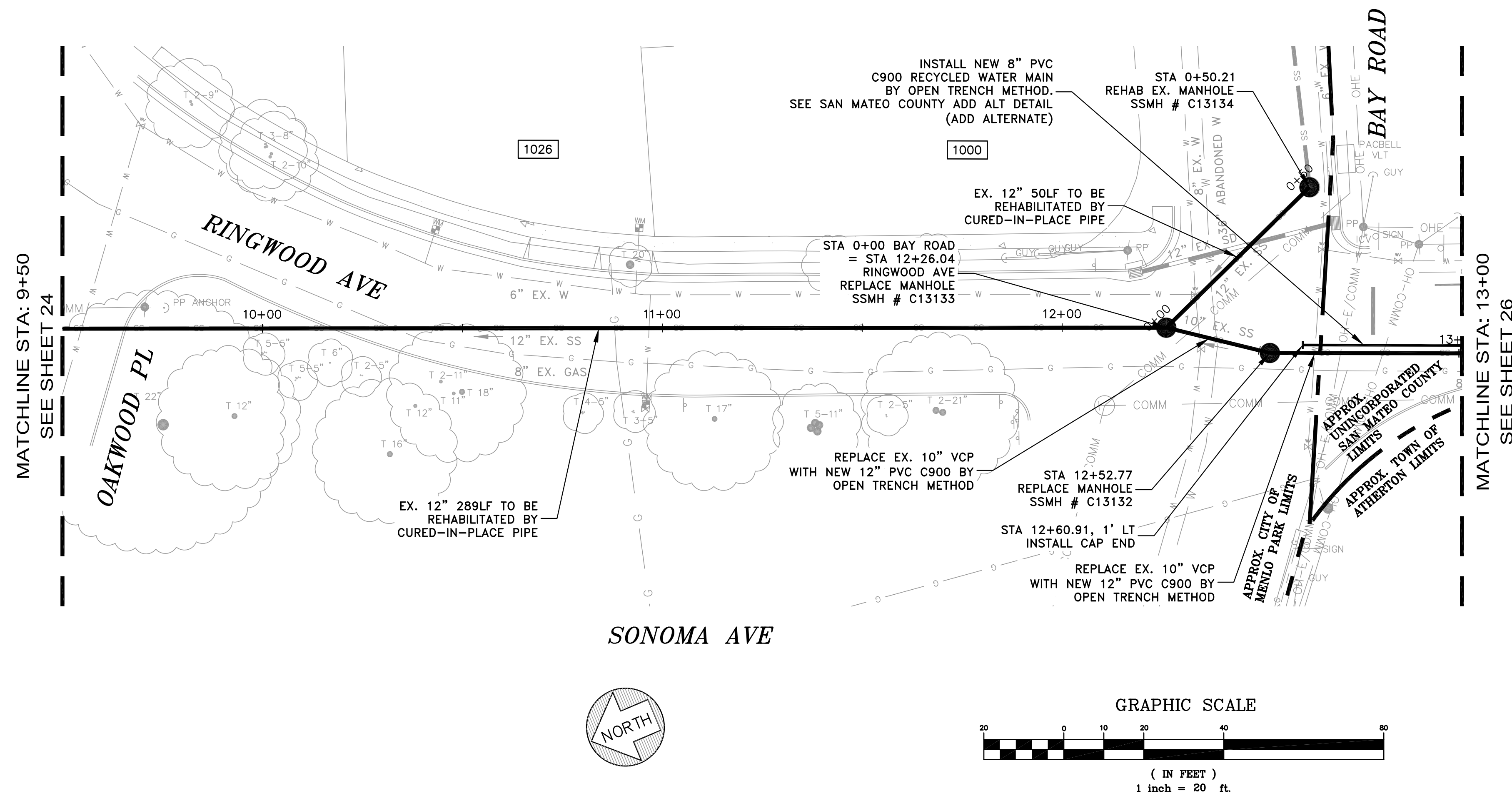
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PROJECT No. 1761.5



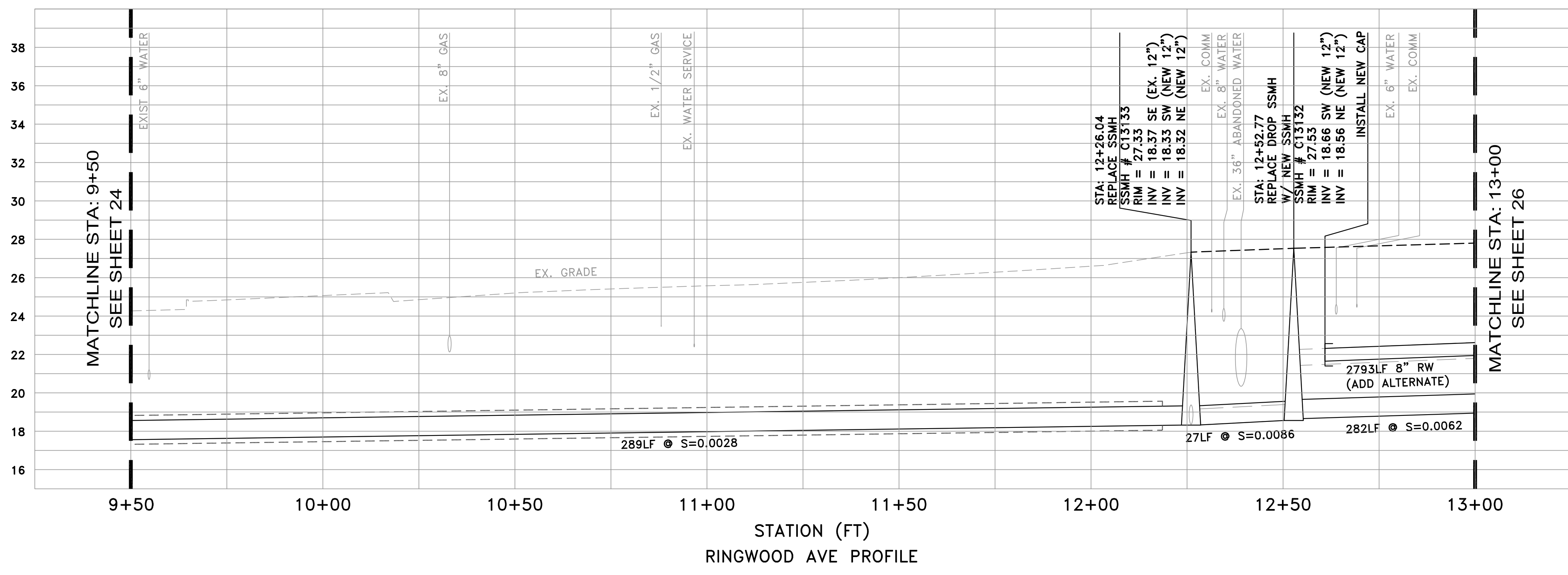
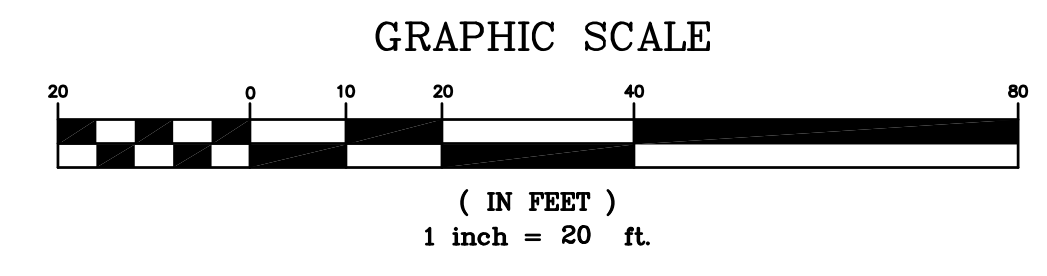
**NORTH BAY ROAD AND RINGWOOD AVENUE**  
**EASEMENT (SONOMA / RINGWOOD)**  
**STA 4+50 - 9+50**  
**MENLO PARK, CALIFORNIA**

SHEET  
**24**  
JOB NO.  
**1086**

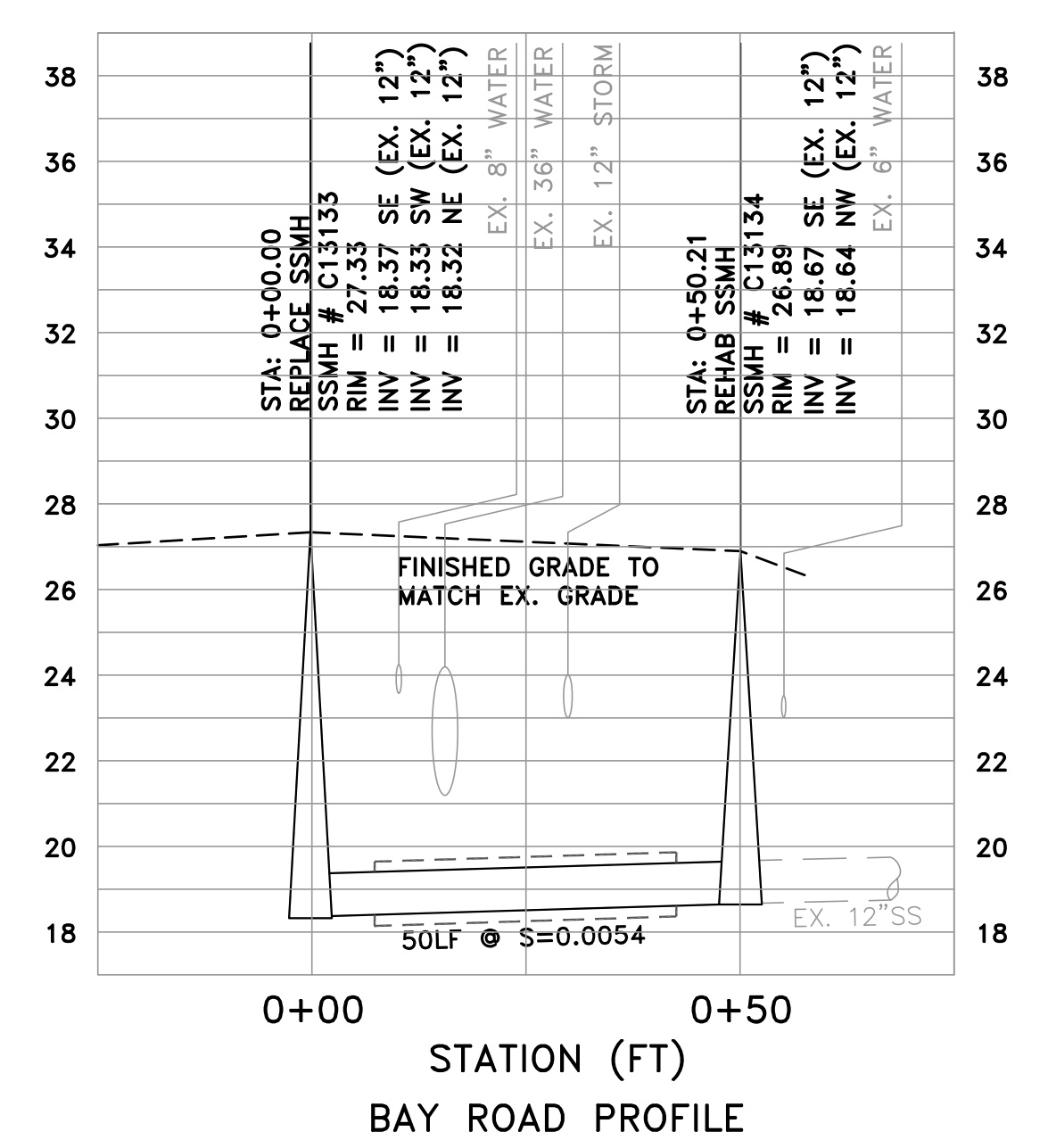


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- 8" PVC RECYCLED WATER PIPE SHALL BE IN A COMMON TRENCH WITH THE SANITARY SEWER MAIN. THE RECYCLED WATER MAIN SHALL BE INSTALLED AT THE APPROXIMATE ELEVATION AS THE EXISTING SANITARY SEWER MAIN BEING REPLACED. RECYCLED WATER MAIN TO MAINTAIN A MINIMUM OF A 5-FOOT COVER.



**PROFILE VIEW**  
HORIZ: 1" = 20'  
VERT: 1" = 4'

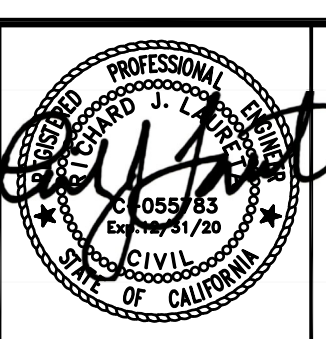


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**FREYER & LAURETA, INC.**  
CIVIL ENGINEERS • SURVEYORS • CONSTRUCTION MANAGERS

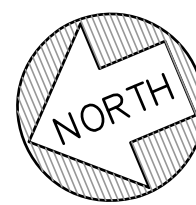
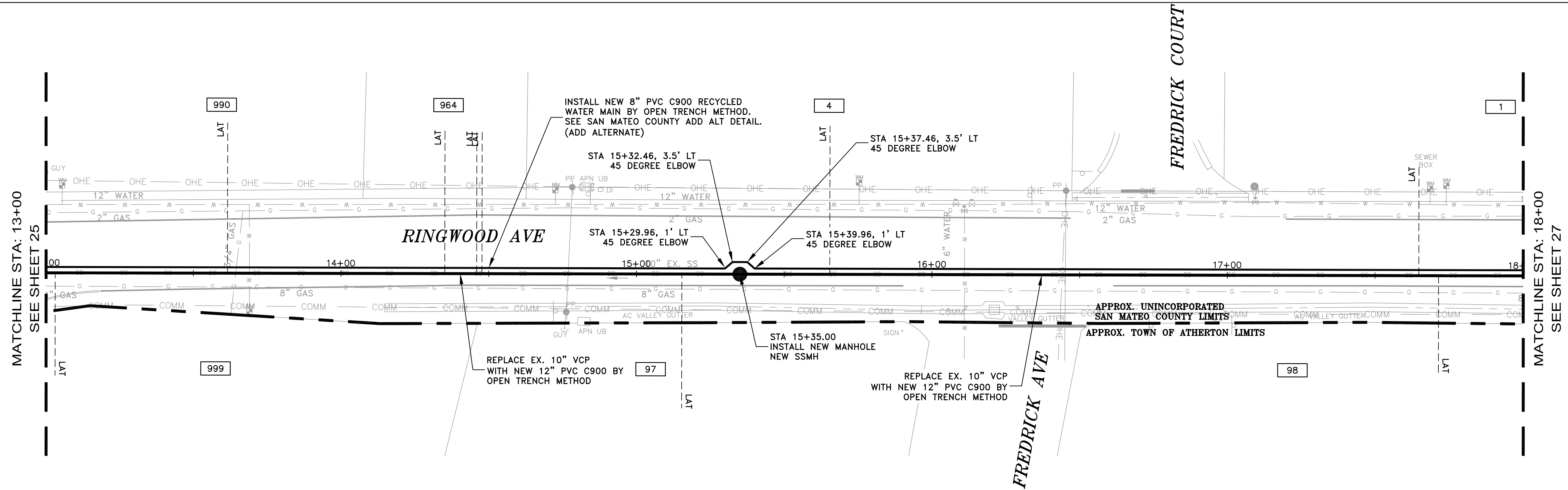
144 North San Mateo Drive • San Mateo, CA 94401  
(650)344-9901 • Fax (650)344-9920 • www.freyerlaureta.com

**WEST BAY**  
SANITARY DISTRICT  
SAN MATEO COUNTY  
PROJECT No. 1761.5

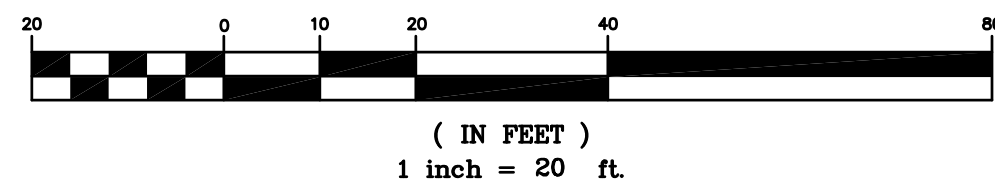


**NORTH BAY ROAD AND RINGWOOD AVENUE**  
**RINGWOOD AVENUE**  
**STA 9+50 - 13+00**  
**MENLO PARK, CALIFORNIA**

SHEET  
**25**  
JOB No.  
**1086**

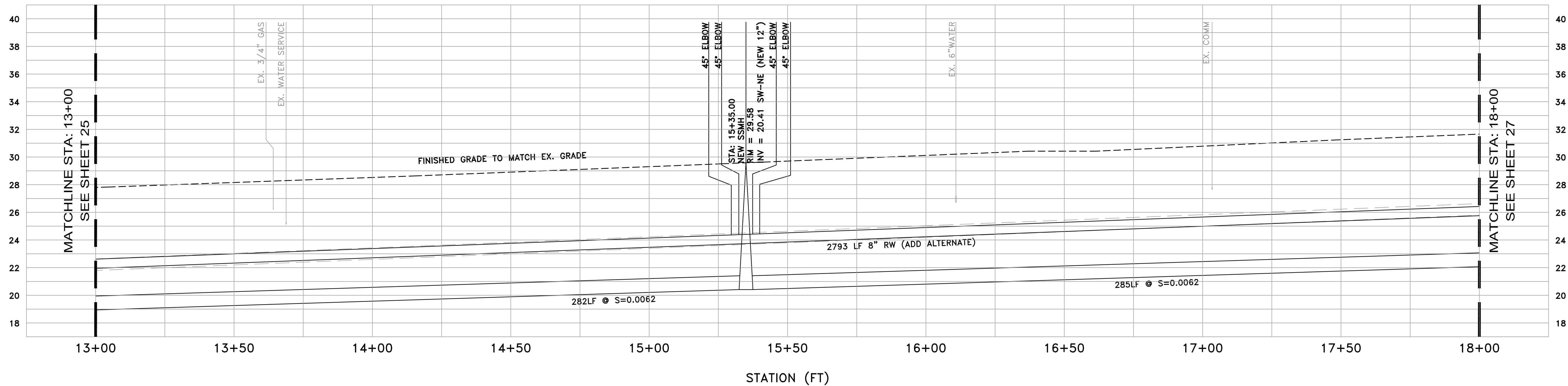


GRAPHIC SCALE



NOTES:

- 1) CONTRACTOR SHALL BE RESPONSIBLE FOR THE UNINTERRUPTION OF SEWER SERVICE FOR ALL PROPERTIES. CONTRACTOR SHALL SUBMIT BYPASS PLAN TO THE DISTRICT FOR APPROVAL 10 DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING.
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PROFILE VIEW  
HORIZ: 1" = 20'  
VERT: 1" = 4'

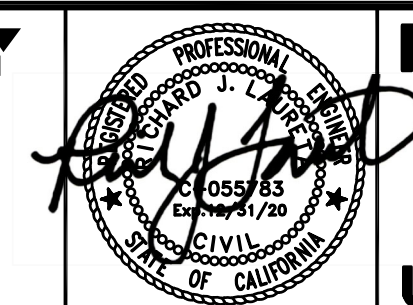
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DESIGNED:	LFH & FYM		
DRAWN:	FYM		
CHECKED:	LFH		
PROJ. ENGR:	RJL		
BY	DATE	DESCRIPTION OF REVISIONS	APP'D

**FREYER & LAURETA, INC.**  
CIVIL ENGINEERS • SURVEYORS • CONSTRUCTION MANAGERS

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(650)344-9901 • Fax (650)344-9920 • www.freyerlaureta.com

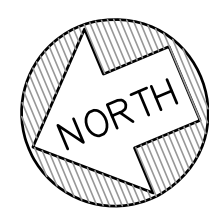
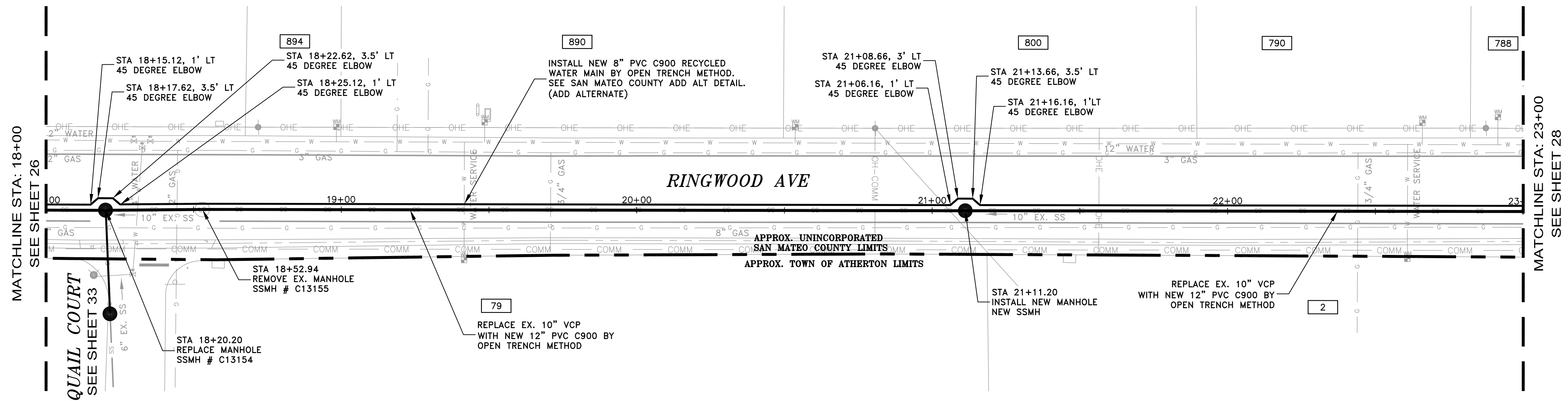
**WEST BAY**  
SANITARY DISTRICT  
SAN MATEO COUNTY

PROJECT No. 1761.5

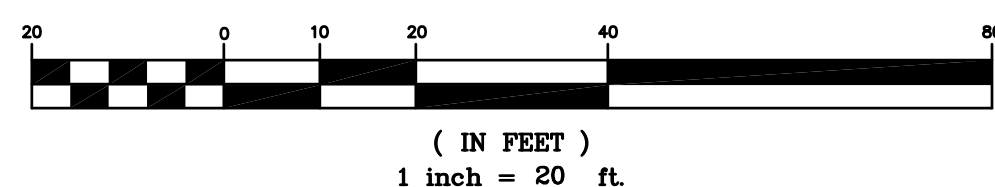


**NORTH BAY ROAD AND RINGWOOD AVENUE**  
**RINGWOOD AVENUE**  
**STA 13+00 - 18+00**  
**UNICORPORATED SAN MATEO COUNTY, CALIFORNIA**

SHEET  
**26**  
JOB NO.  
**1086**

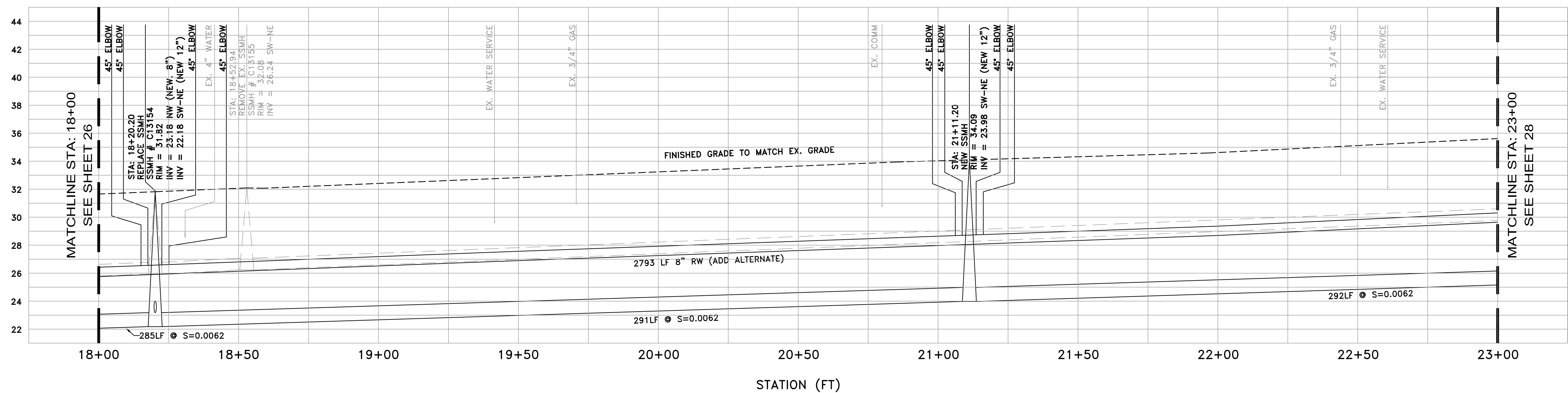


GRAPHIC SCALE



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HORIZ: 1" = 20'  
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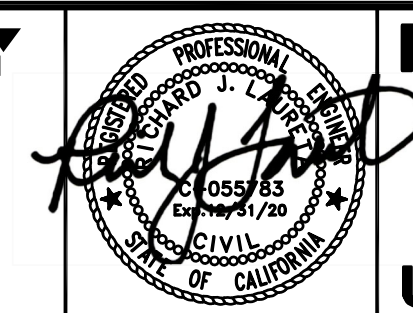
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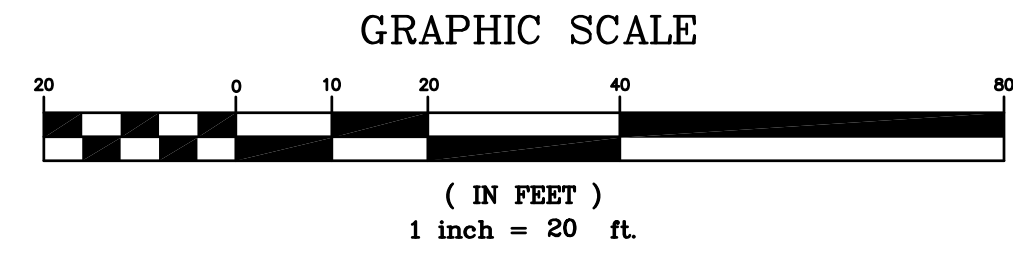
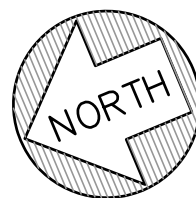
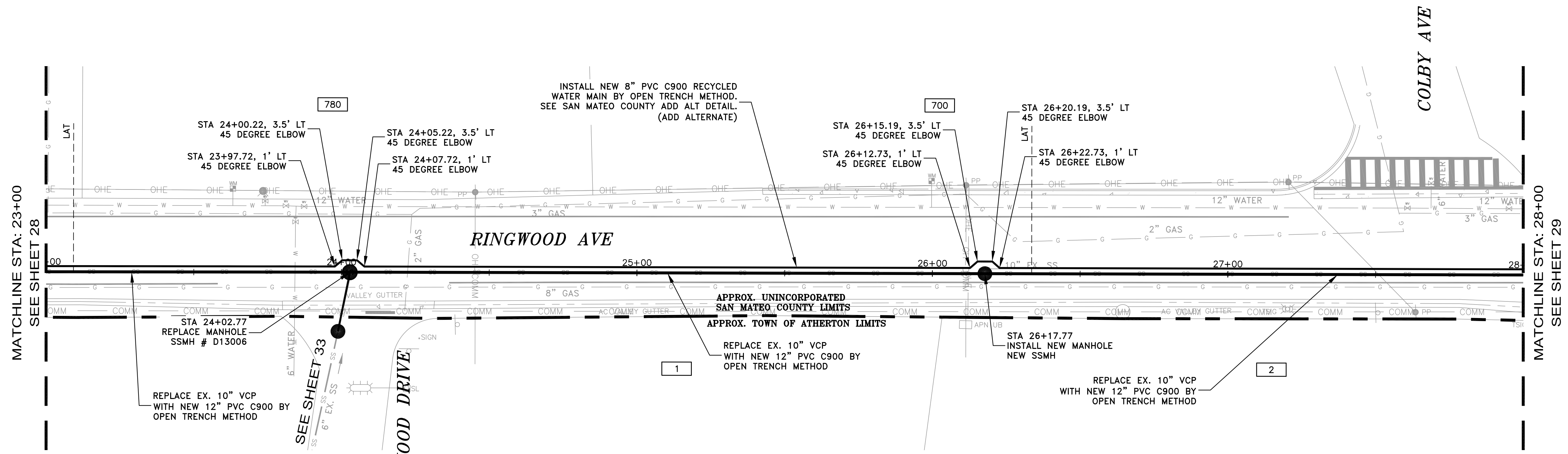
**WEST BAY**  
SANITARY DISTRICT  
SAN MATEO COUNTY

PROJECT No. 1761.5



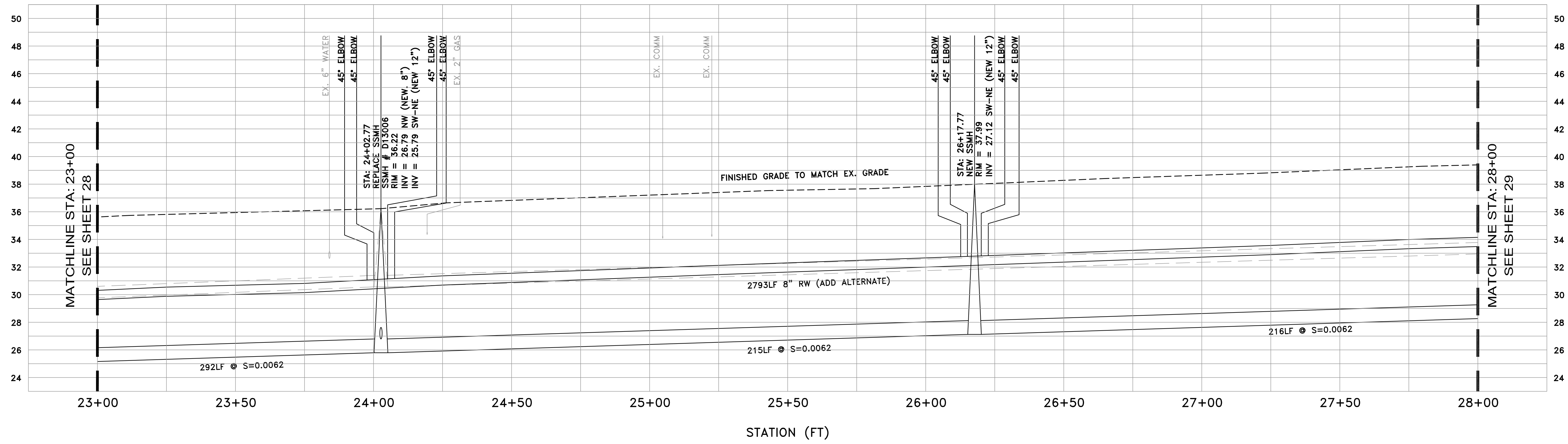
**NORTH BAY ROAD AND RINGWOOD AVENUE**  
**RINGWOOD AVENUE**  
**STA 18+00 - 23+00**  
**UNICORPORATED SAN MATEO COUNTY, CALIFORNIA**

SHEET  
**27**  
JOB NO.  
**1086**



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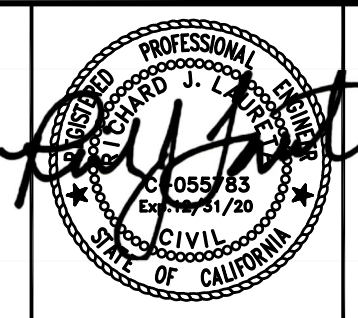
**PROFILE VIEW**  
 HORIZ: 1" = 20'  
 VERT: 1" = 4'

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 CIVIL ENGINEERS • SURVEYORS • CONSTRUCTION MANAGERS

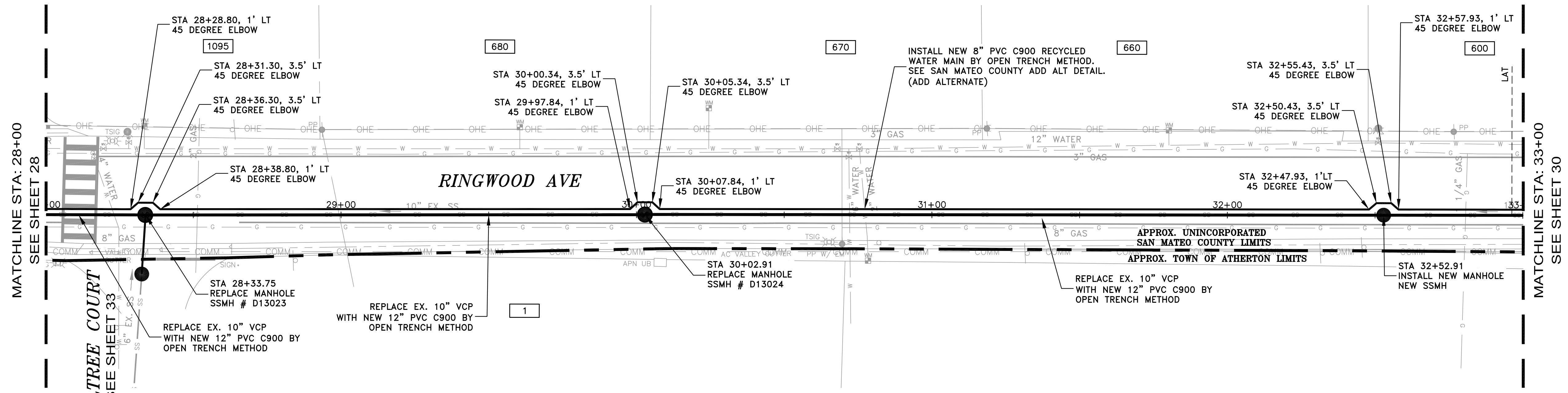
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 (650)344-9901 • Fax (650)344-9920 • www.freyerlaureta.com

**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY  
 PROJECT No. 1761.5

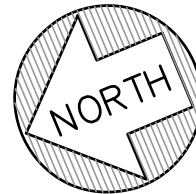


**NORTH BAY ROAD AND RINGWOOD AVENUE**  
**RINGWOOD AVENUE**  
**STA 23+00 - 28+00**  
**UNINCORPORATED SAN MATEO COUNTY, CALIFORNIA**

SHEET	28
JOB NO.	1086



ALTREE COURT  
SEE SHEET 33



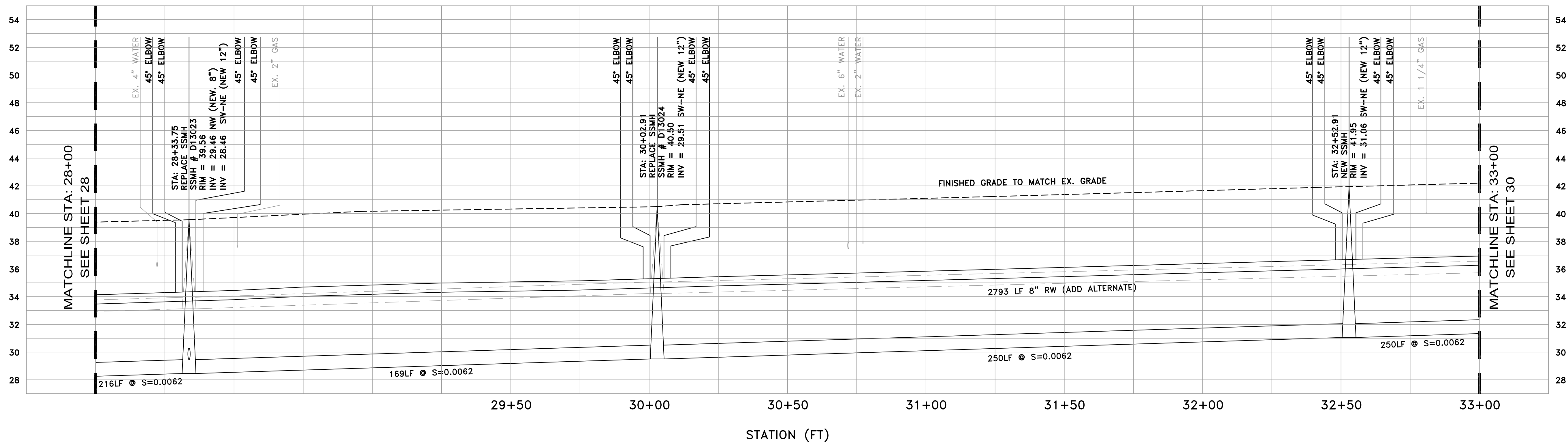
GRAPHIC SCALE



( IN FEET )  
1 inch = 20 ft.

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PROFILE VIEW  
HORIZ: 1" = 20'  
VERT: 1" = 4'

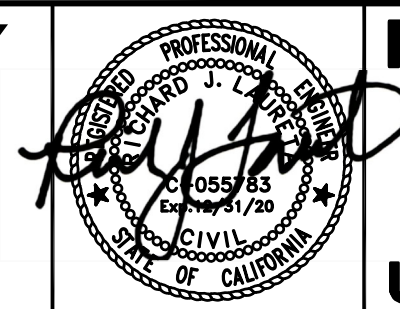
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**FL FREYER & LAURETA, INC.**  
CIVIL ENGINEERS • SURVEYORS • CONSTRUCTION MANAGERS

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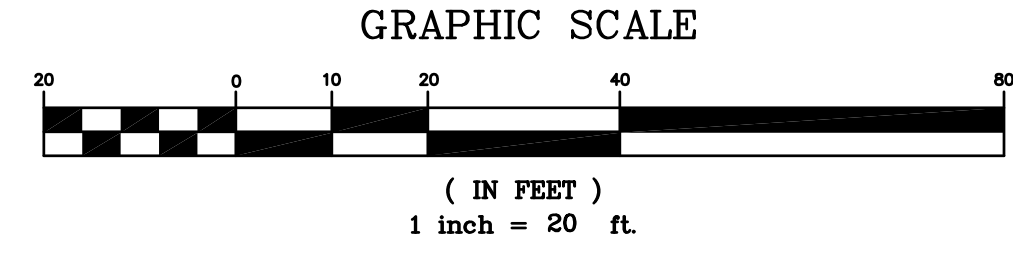
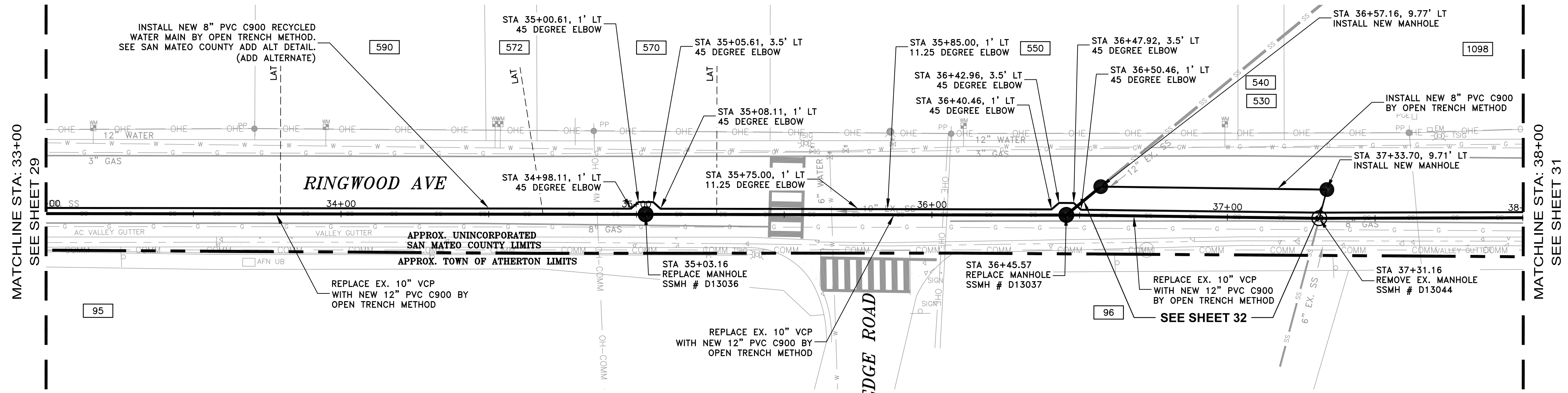
**WEST BAY**  
SANITARY DISTRICT  
SAN MATEO COUNTY

PROJECT No. 1761.5



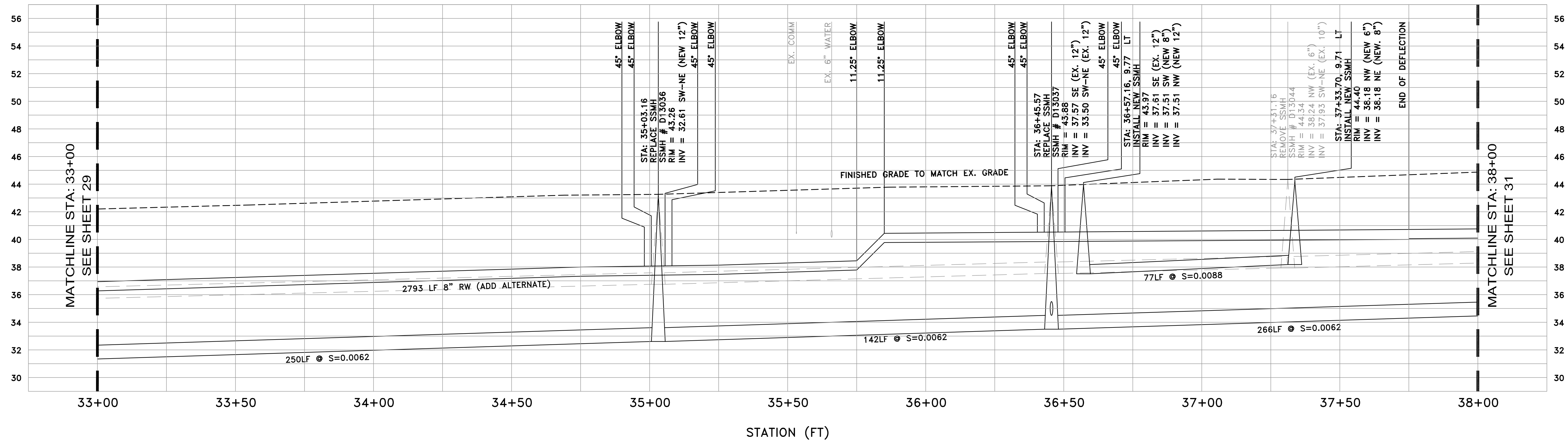
**NORTH BAY ROAD AND RINGWOOD AVENUE**  
**RINGWOOD AVENUE**  
**STA 28+00 - 33+00**  
**UNINCORPORATED SAN MATEO COUNTY, CALIFORNIA**

SHEET  
**29**  
JOB NO.  
**1086**



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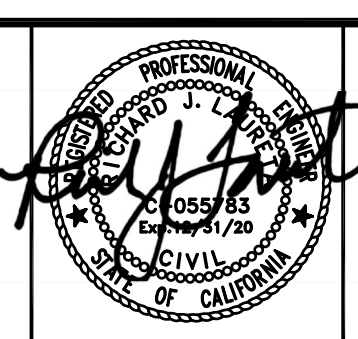
**PROFILE VIEW**  
 HORIZ: 1" = 20'  
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PROJ. ENGR:	RJL		
BY	DATE	DESCRIPTION OF REVISIONS	APP'D



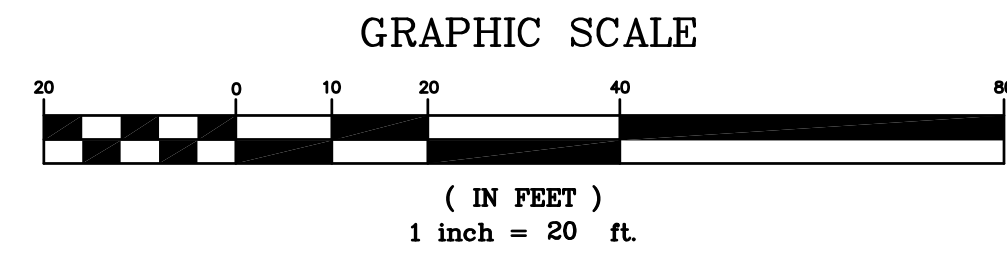
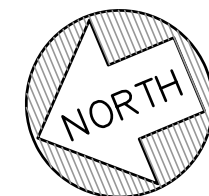
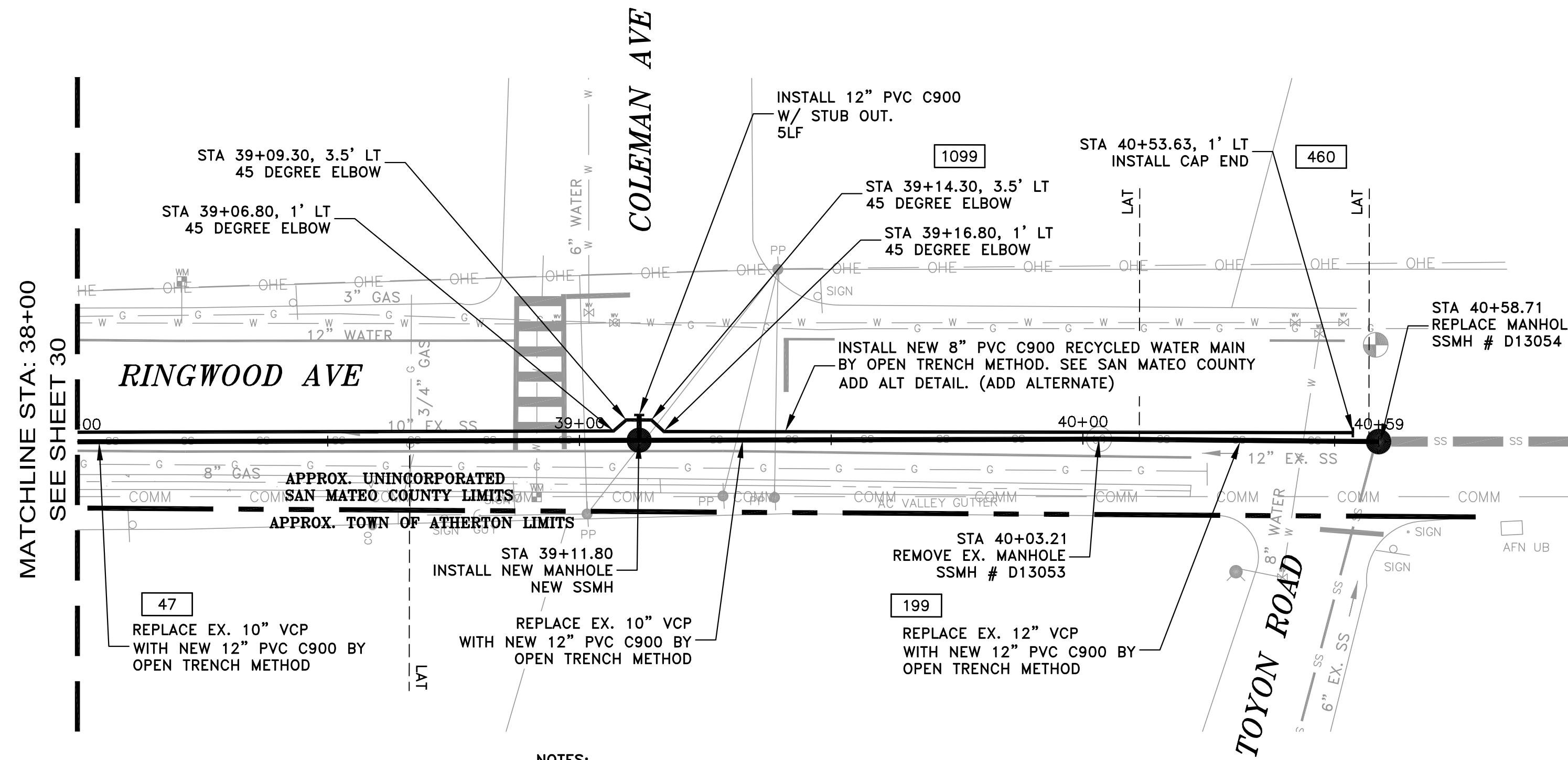
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**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY  
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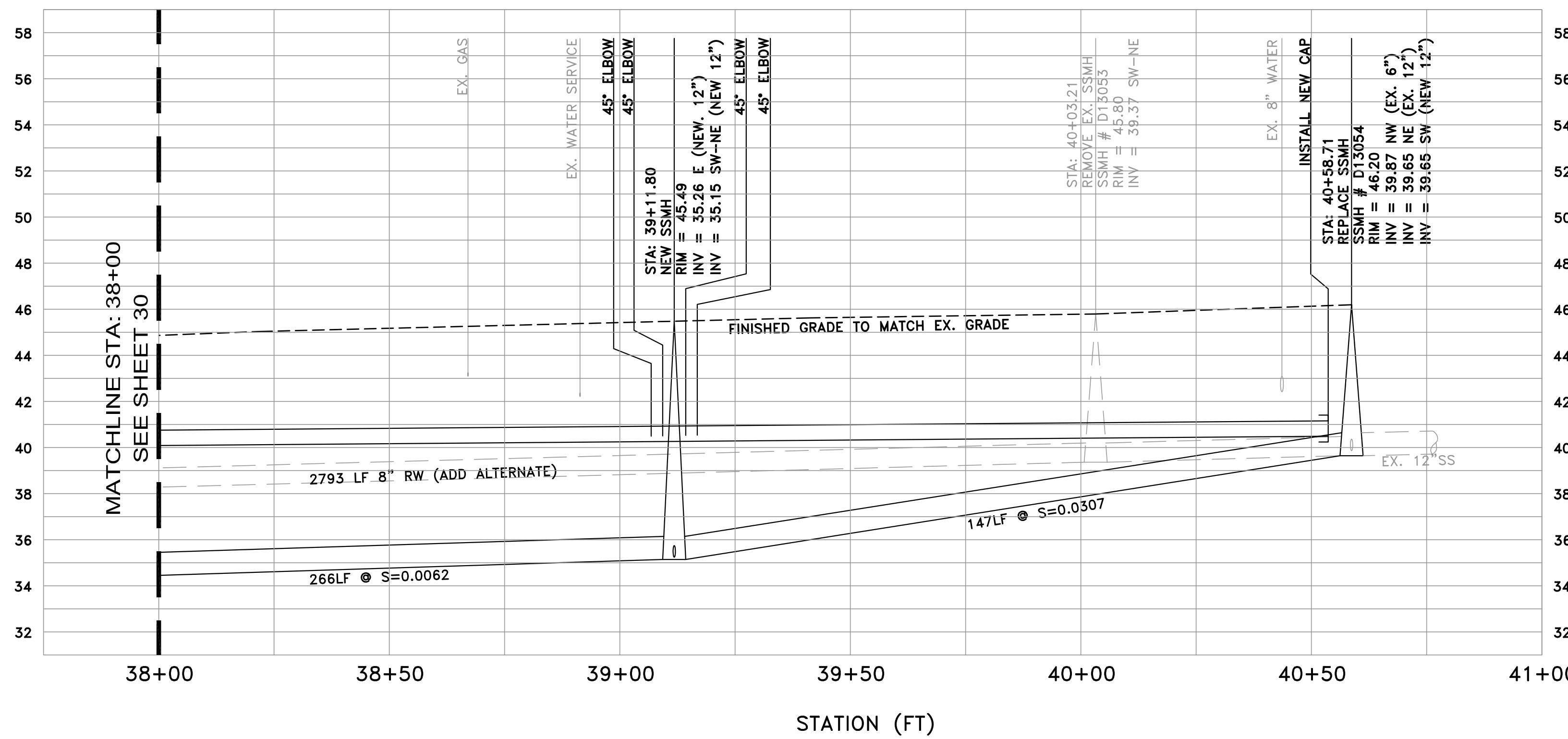
**NORTH BAY ROAD AND RINGWOOD AVENUE**  
**RINGWOOD AVENUE**  
**STA 33+00 - 38+00**  
**UNINCORPORATED SAN MATEO COUNTY, CALIFORNIA**

SHEET  
**30**  
 JOB NO.  
**1086**



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PROFILE VIEW  
HORIZ: 1" = 20'  
VERT: 1" = 4'

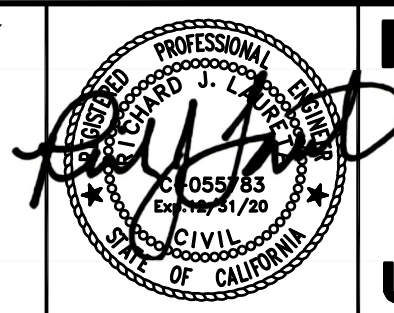
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**WEST BAY**  
SANITARY DISTRICT  
SAN MATEO COUNTY

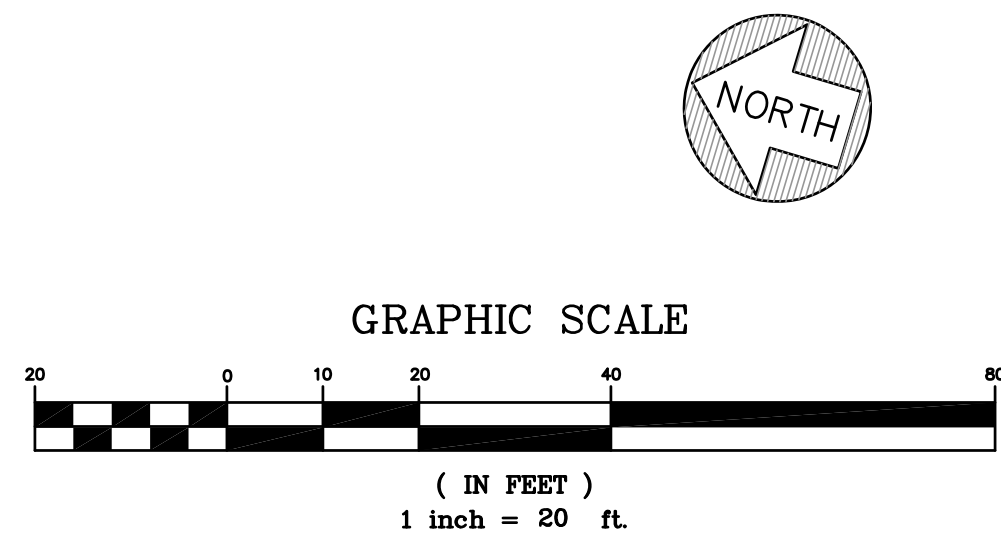
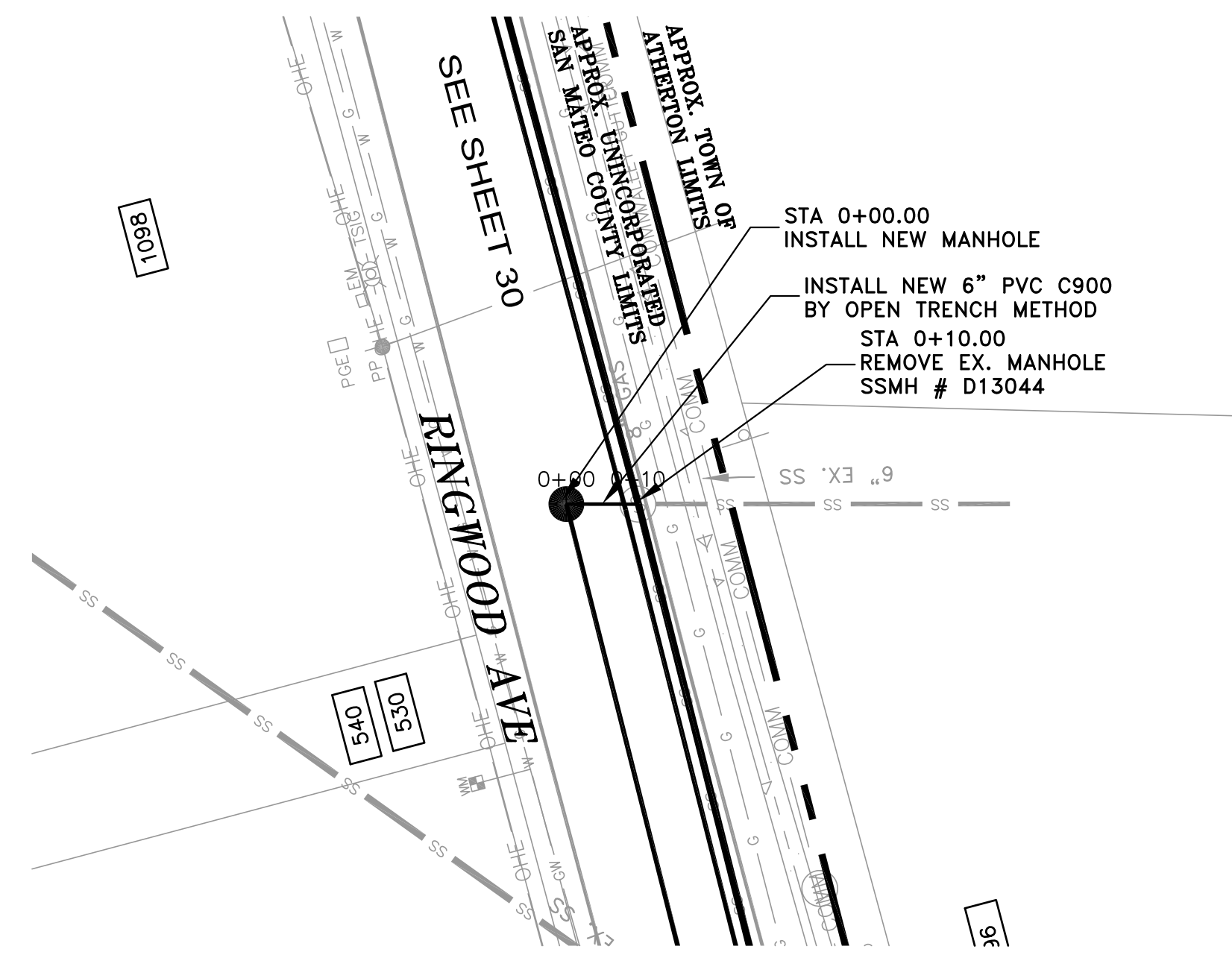
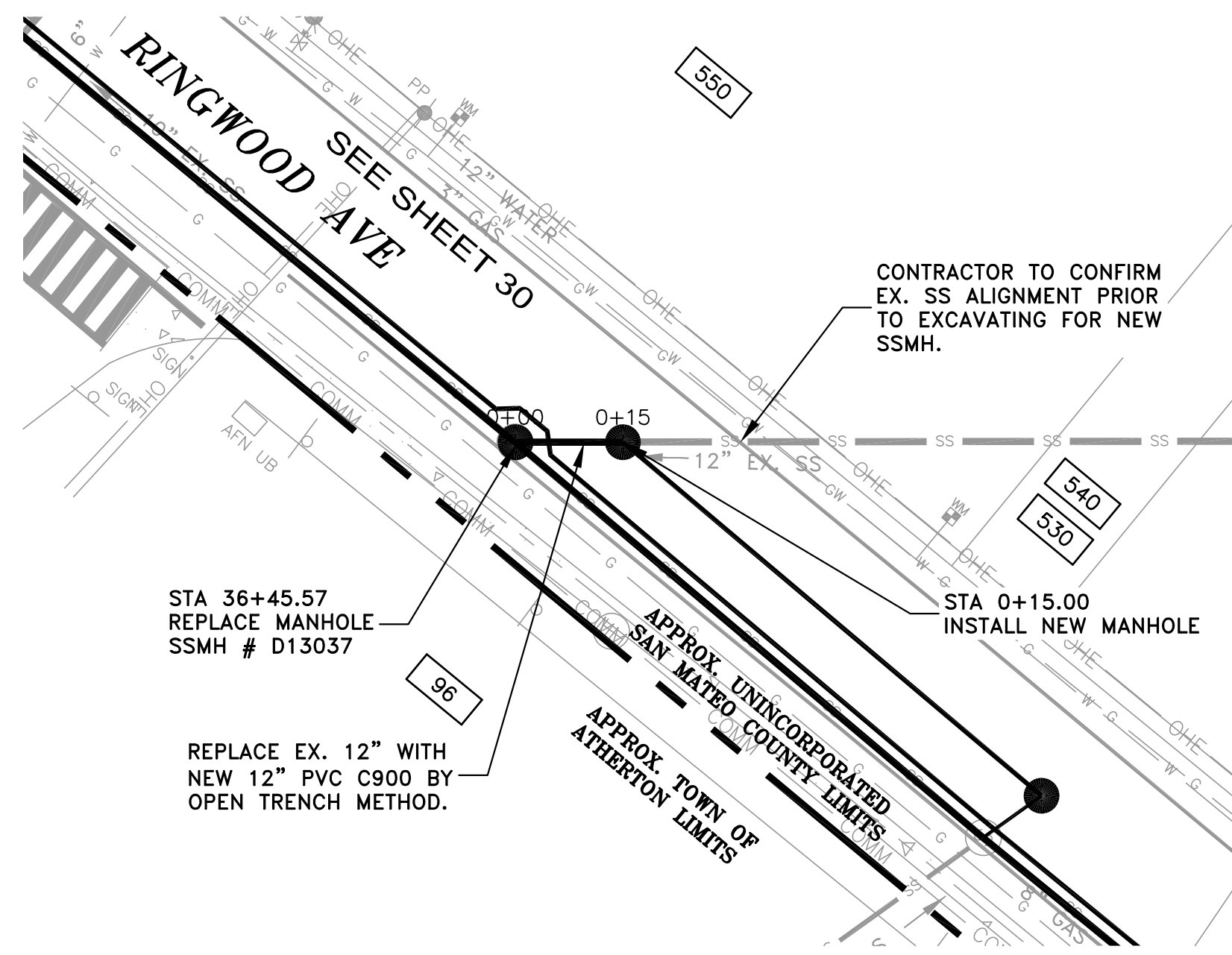
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**NORTH BAY ROAD AND RINGWOOD AVENUE**  
**RINGWOOD AVENUE**  
**STA 38+00 - 40+59**  
**UNICORPORATED SAN MATEO COUNTY, CALIFORNIA**

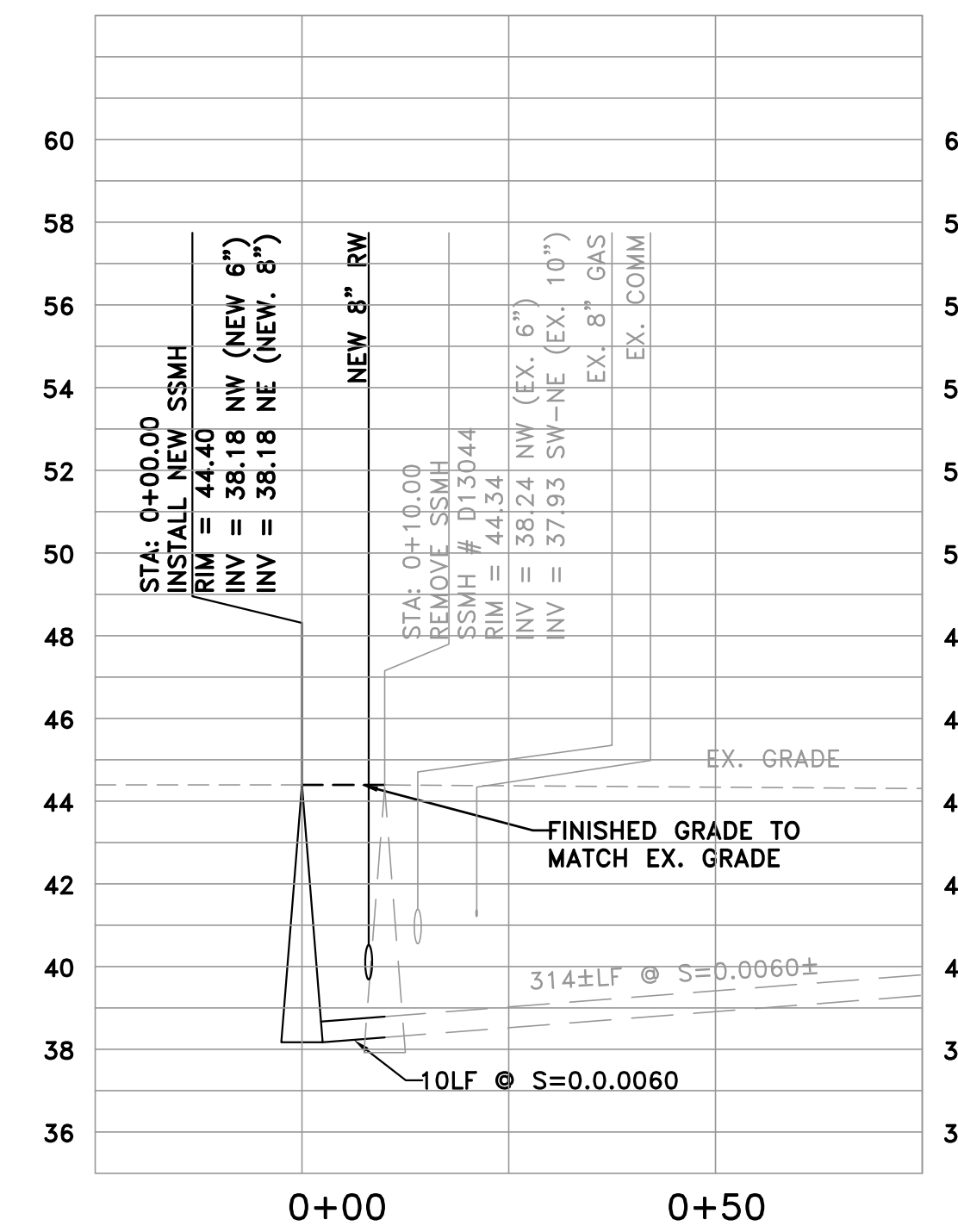
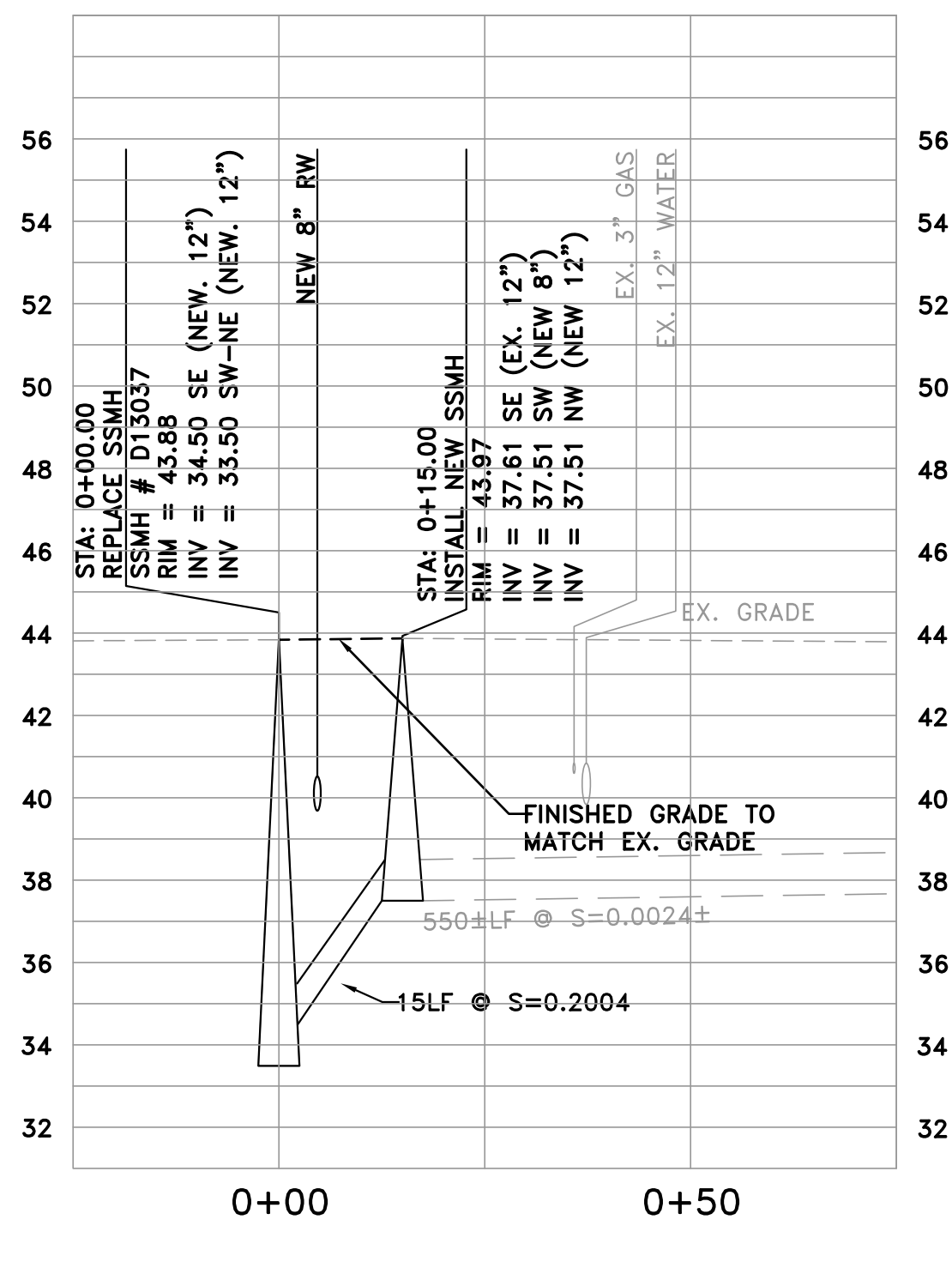
SHEET  
**31**  
JOB NO.  
**1086**





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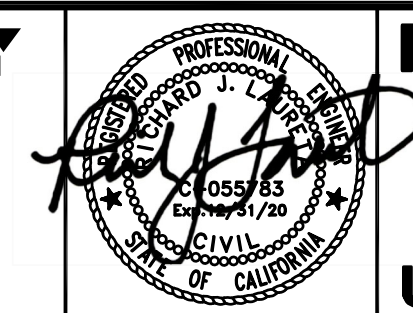
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BY	DATE	DESCRIPTION OF REVISIONS	APP'D

**FL FREYER & LAURETA, INC.**  
 CIVIL ENGINEERS • SURVEYORS • CONSTRUCTION MANAGERS

144 North San Mateo Drive • San Mateo, CA 94401  
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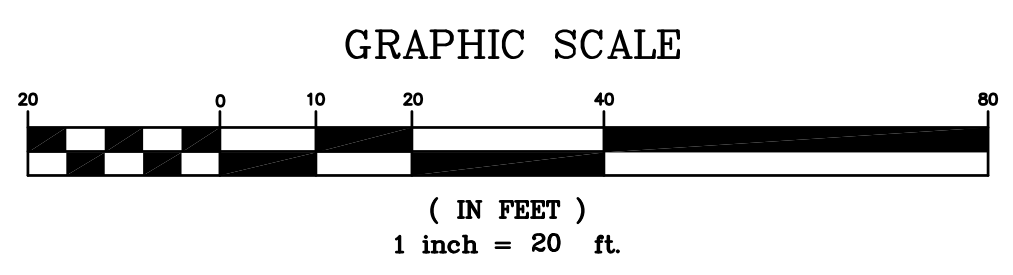
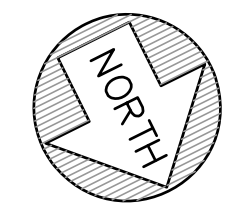
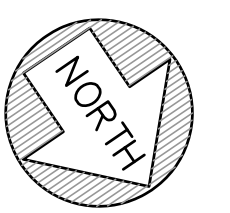
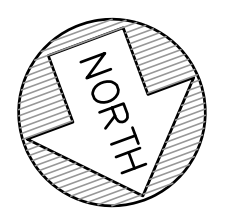
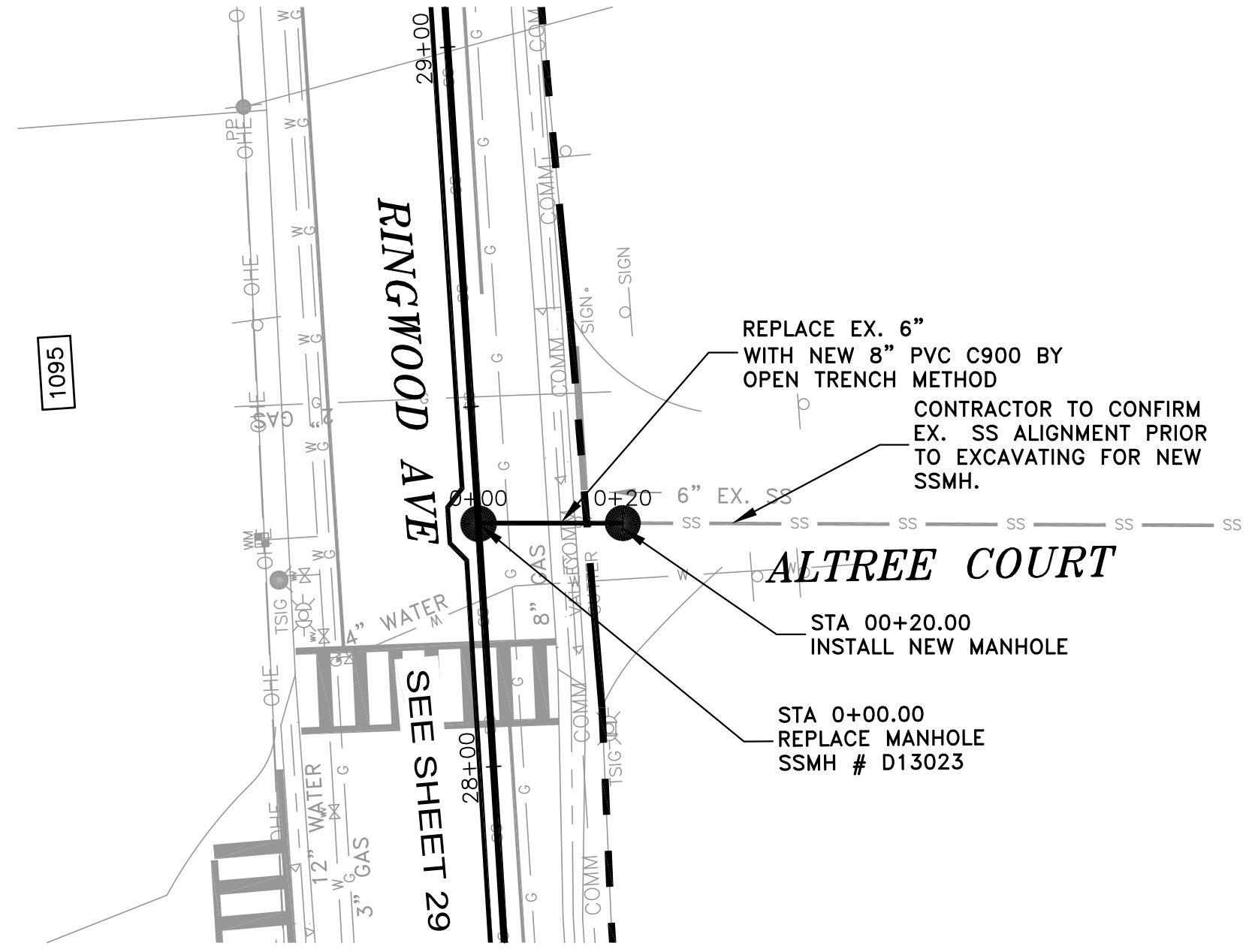
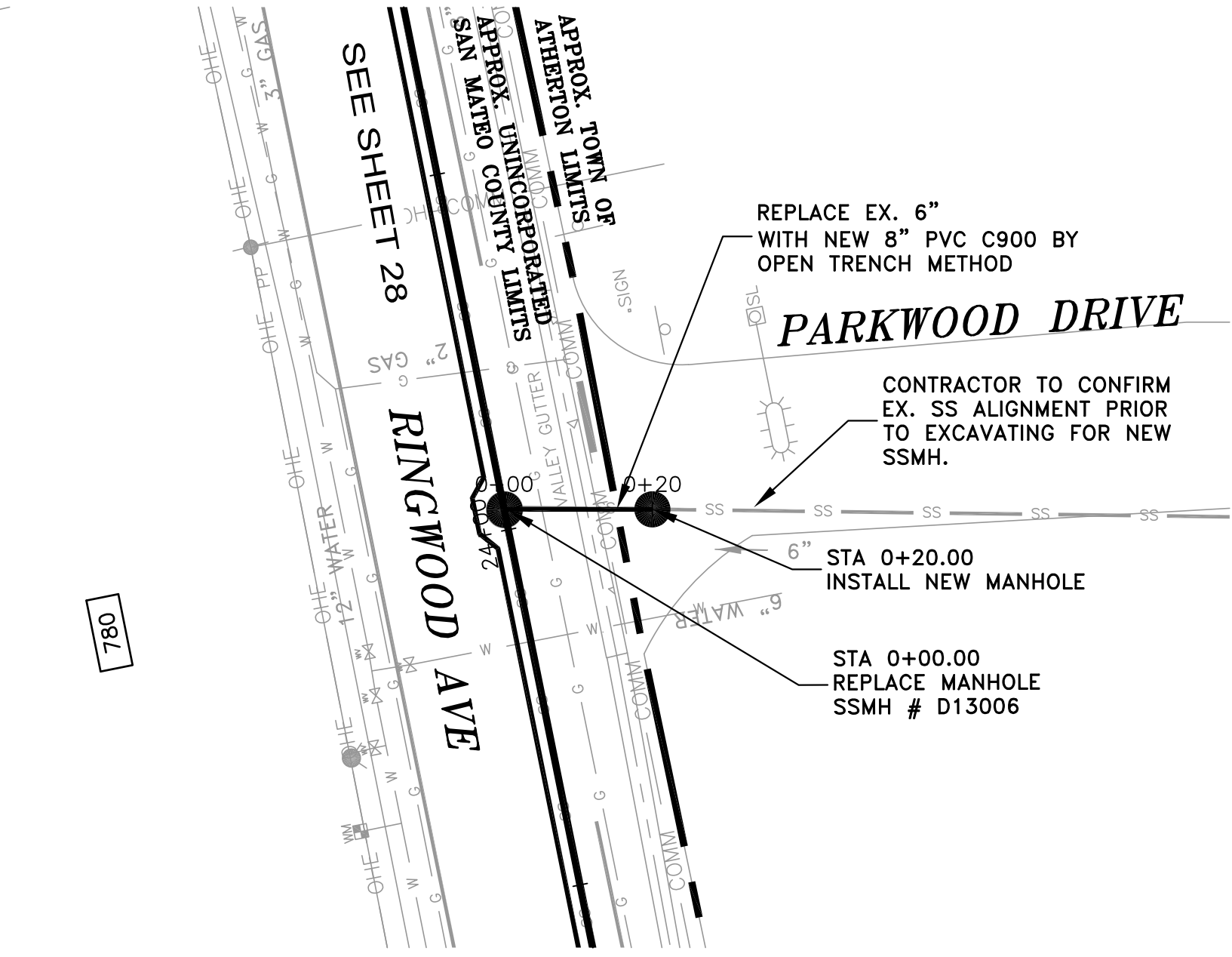
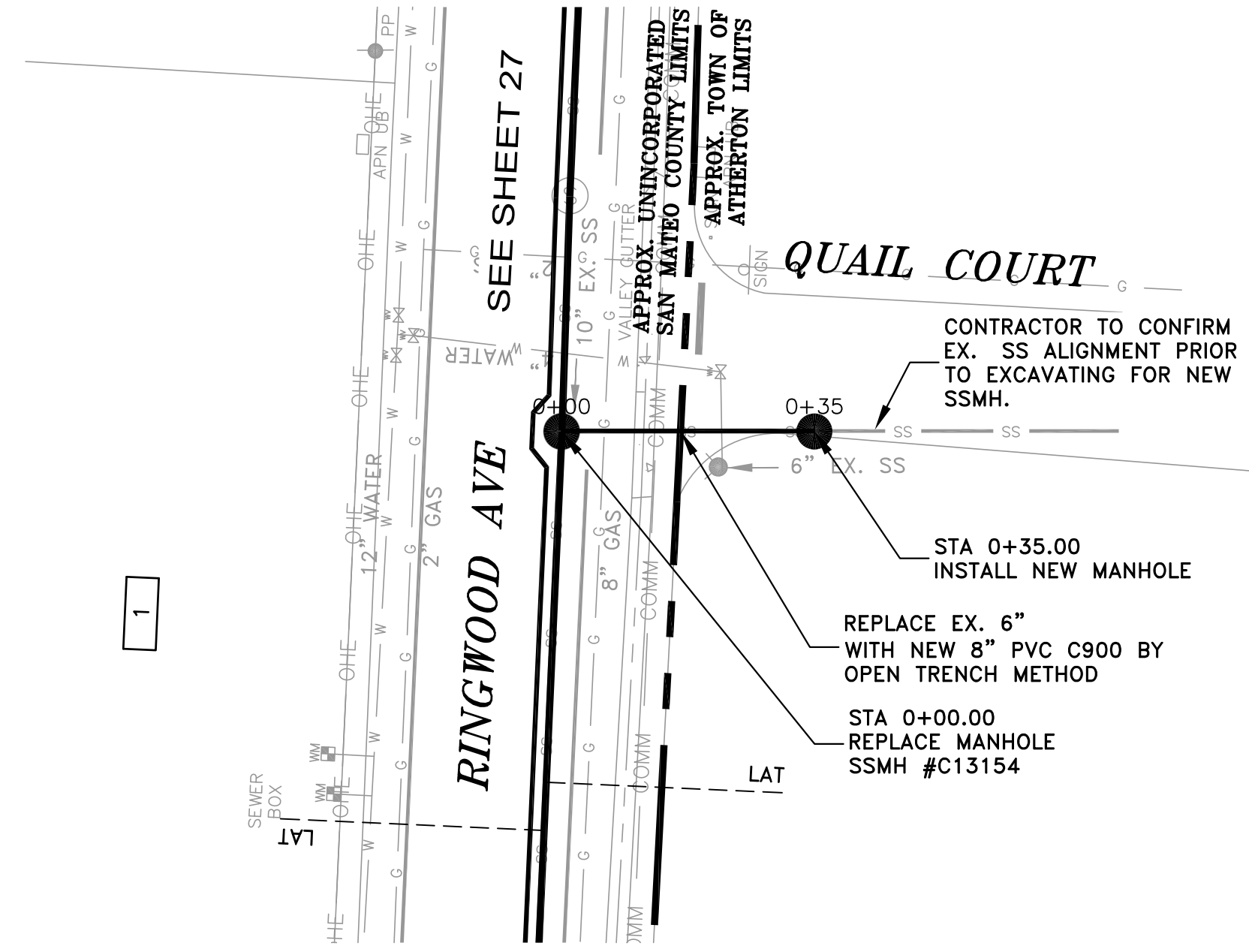
**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY

PROJECT No. 1761.5



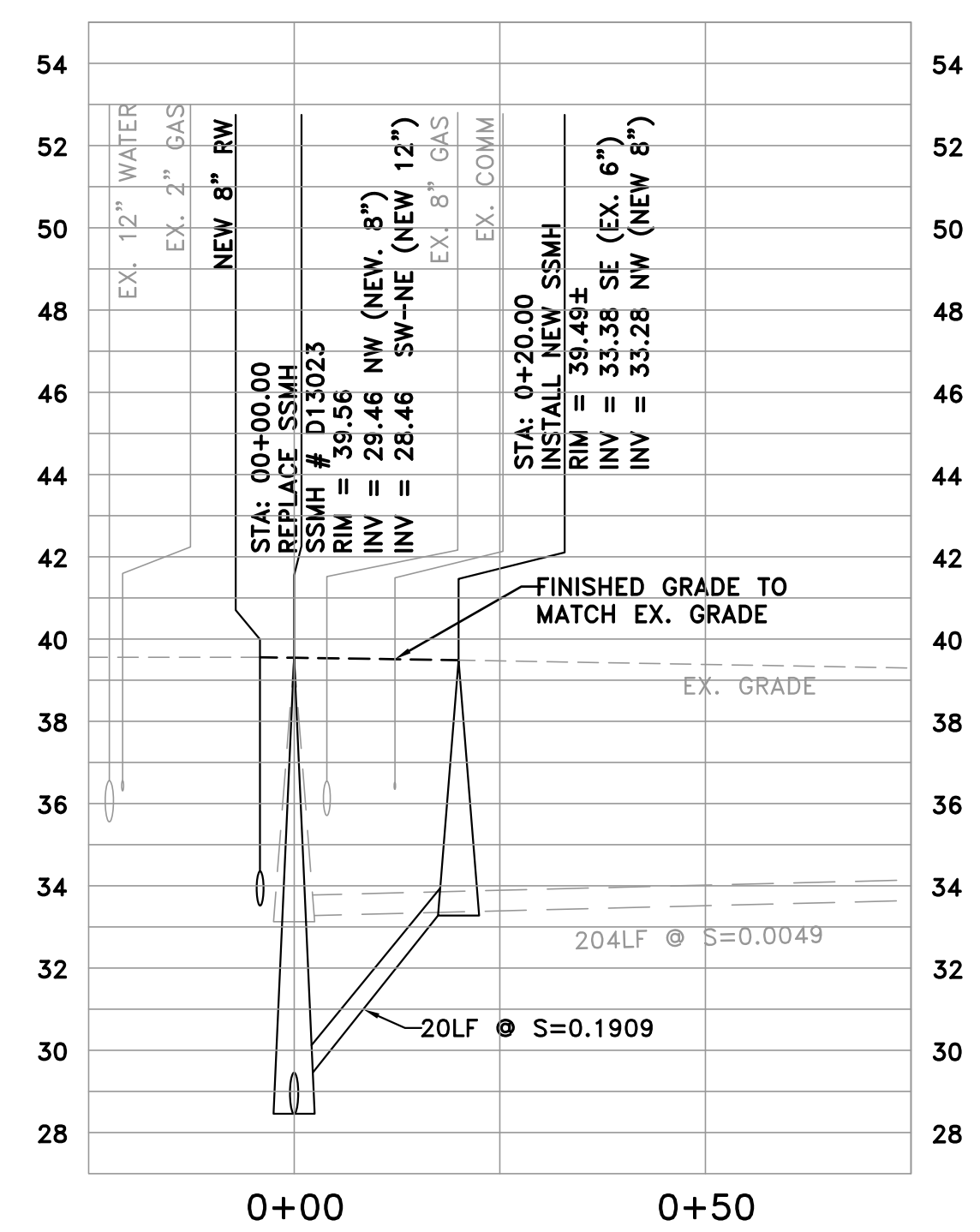
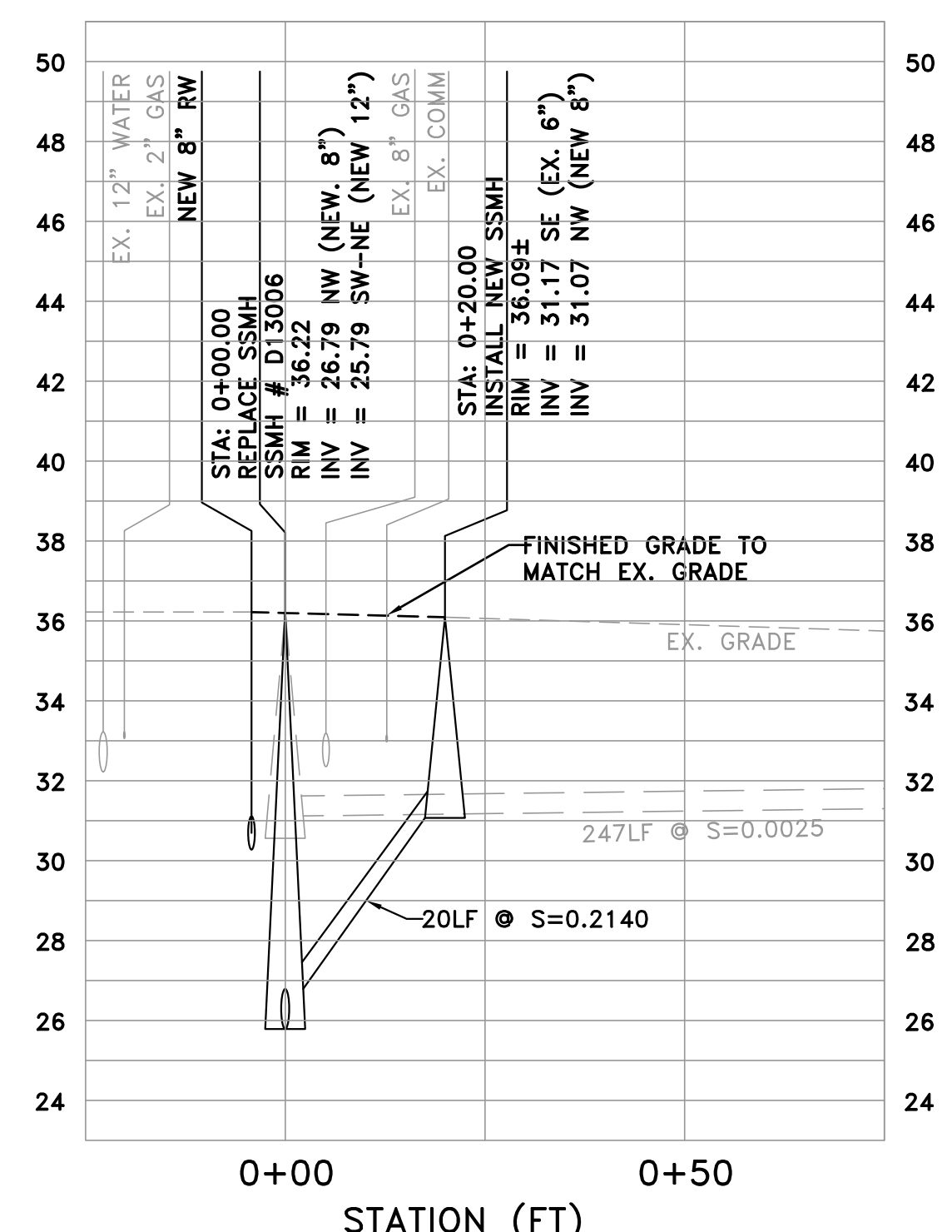
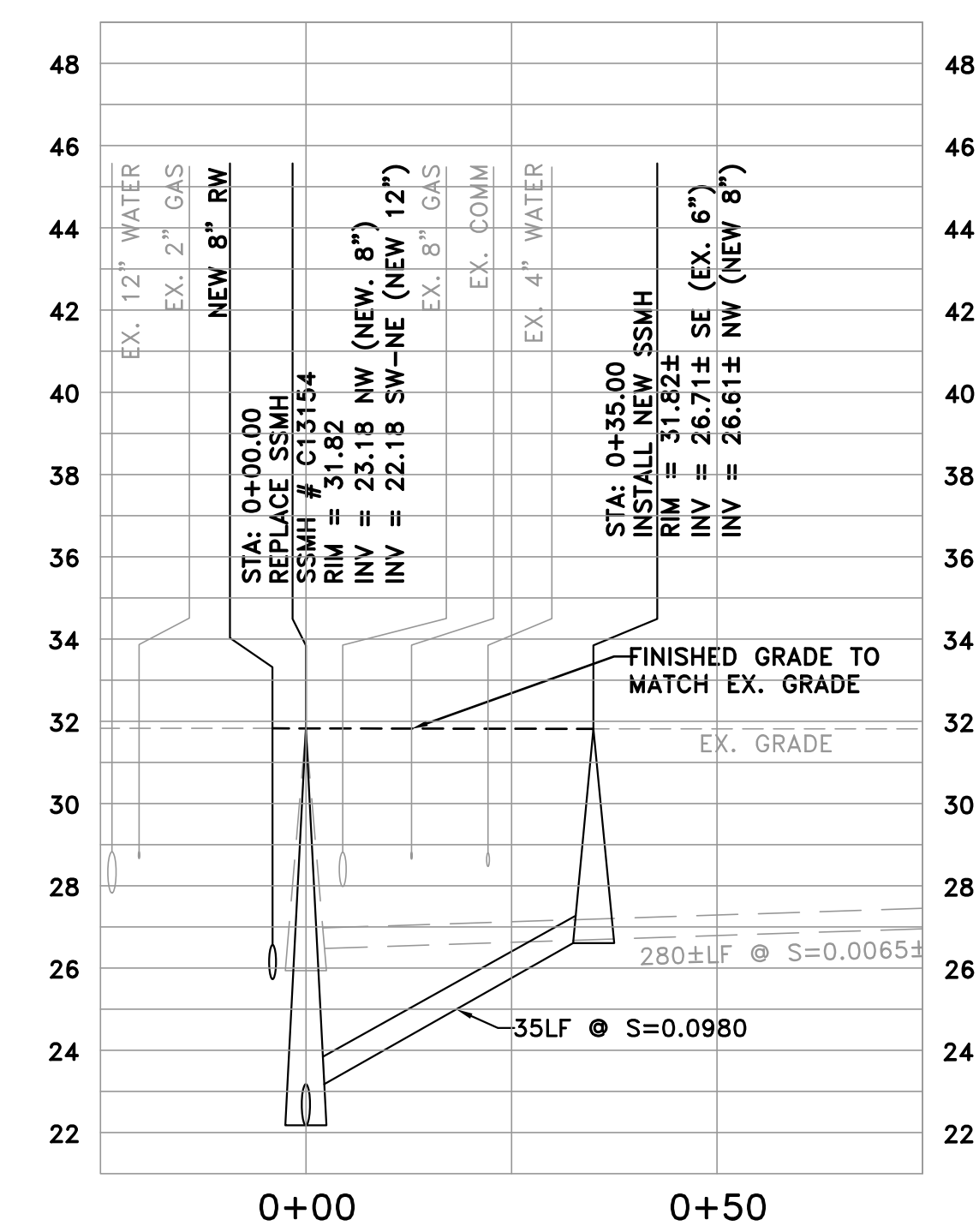
**NORTH BAY ROAD AND RINGWOOD AVENUE**  
**RINGWOOD AVENUE**  
**STA 0+00 - 0+15, 0+00 - 0+10**  
**UNINCORPORATED SAN MATEO COUNTY, CALIFORNIA**

SHEET  
**32**  
 JOB NO.  
**1086**



NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR THE UNINTERRUPTION OF SEWER SERVICE FOR ALL PROPERTIES. CONTRACTOR SHALL SUBMIT BYPASS PLAN TO THE DISTRICT FOR APPROVAL 10 DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING.
- CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID ANY DAMAGE TO EXISTING UTILITIES. CONTRACTOR SHALL NOTE THE CLOSE PROXIMITY OF UTILITIES TO PROPOSED IMPROVEMENTS. CONTRACTOR SHALL NOTIFY U.S.A. TO LOCATE UTILITIES AT THE PROJECT SITE PRIOR TO START OF CONSTRUCTION.
- FOR PIPE BURSTING SEE PROJECT STANDARD SPECIFICATION FOR PIPE INSTALLATION AND MATERIAL.
- 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.
- A REPRESENTATIVE FROM CAL WATER MUST BE PRESENT AT ALL TIMES DURING CONSTRUCTION OPERATIONS AT CROSSINGS BETWEEN THE PROPOSED SEWER MAIN AND EXISTING WATER MAIN.



PROFILE VIEW  
HORIZ: 1" = 20'  
VERT: 1" = 4'

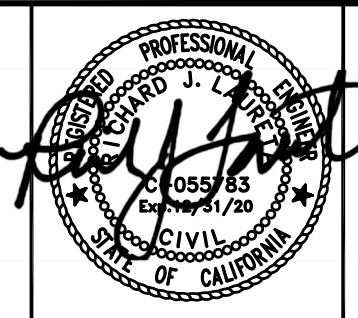
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SCALE:	AS NOTED		
DESIGNED:	LFH & FYM		
DRAWN:	FYM		
CHECKED:	LFH		
PROJ. ENGR:	RJL		
BY	DATE	DESCRIPTION OF REVISIONS	APP'D

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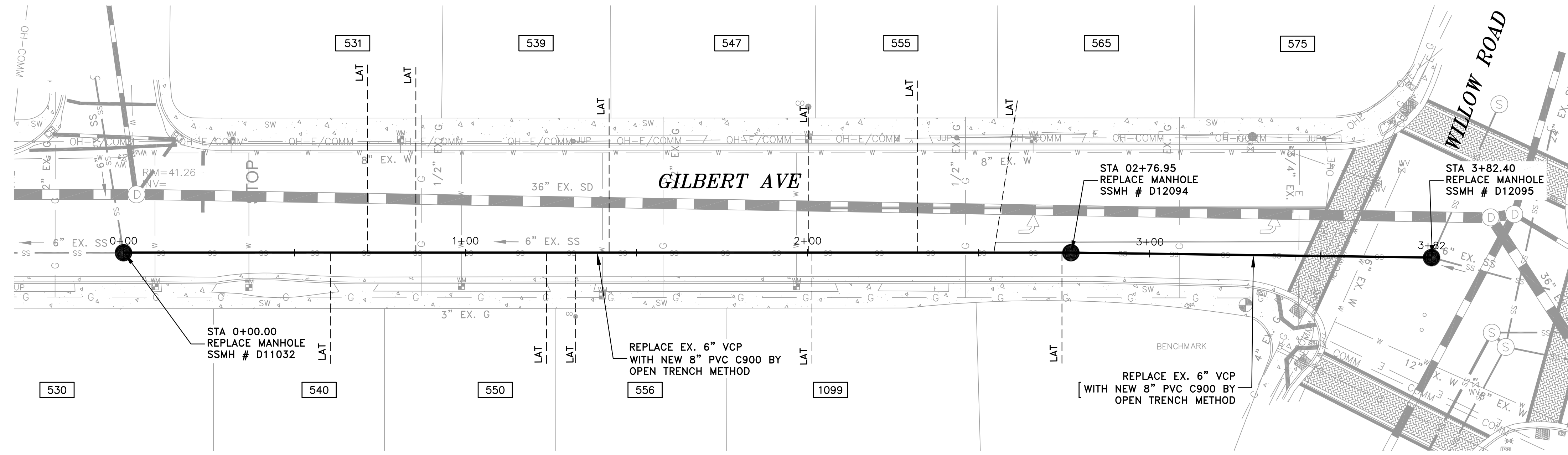
**WEST BAY**  
SANITARY DISTRICT  
SAN MATEO COUNTY

PROJECT No. 1761.5



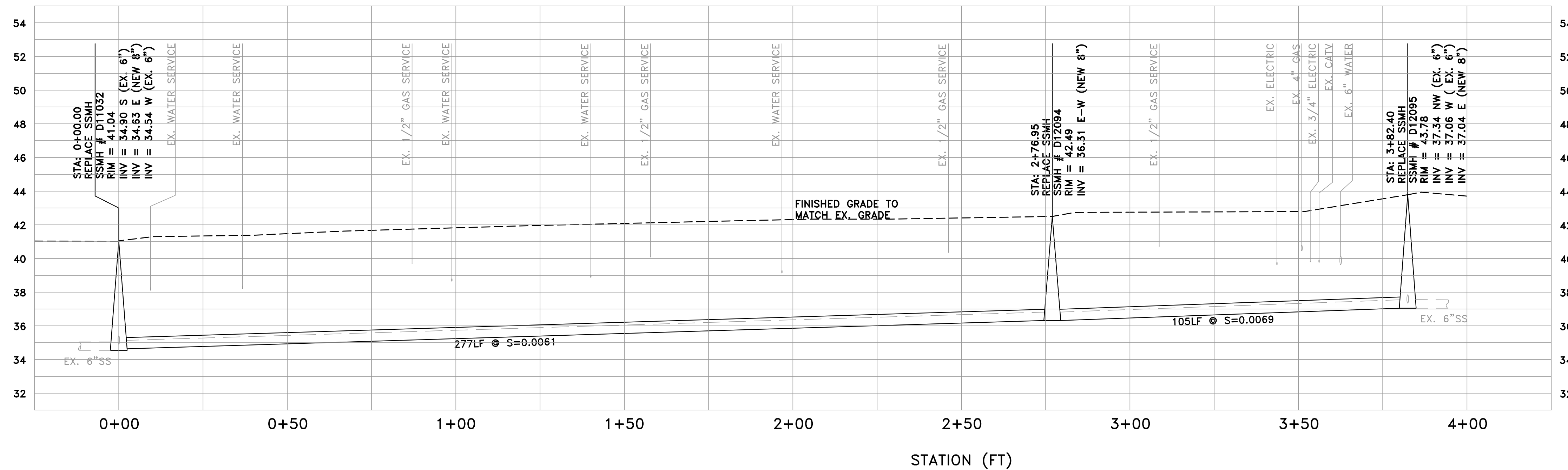
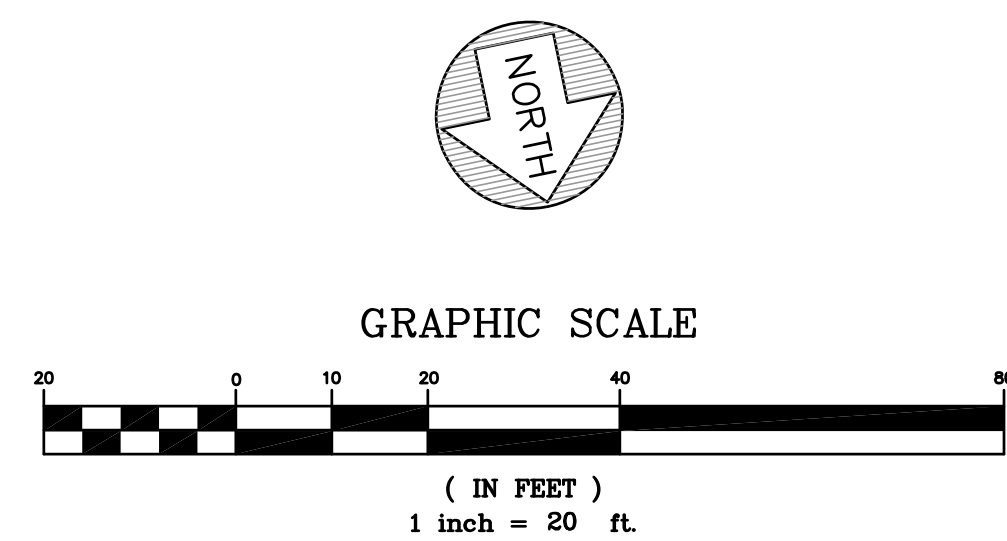
**NORTH BAY ROAD AND RINGWOOD AVENUE**  
**QUAIL COURT, PARKWOOD DRIVE, & ALTREE COURT**  
**STA 0+00 - 0+35, 0+00 - 0+20, & 0+00 - 0+20**  
**TOWN OF ATHERTON, CALIFORNIA**

SHEET	33
JOB NO.	1086



**NOTES:**

- CONSTRUCTION OF SHEET 34 LABELED GILBERT STREET STA 0+00 TO 3+83 SHALL BE COMPLETED FIRST PRIOR TO CONSTRUCTION OF SHEETS 2 TO 33.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE UNINTERRUPTION OF SEWER SERVICE FOR ALL PROPERTIES. CONTRACTOR SHALL SUBMIT BYPASS PLAN TO THE DISTRICT FOR APPROVAL 10 DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING.
- CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID ANY DAMAGE TO EXISTING UTILITIES. CONTRACTOR SHALL NOTE THE CLOSE PROXIMITY OF UTILITIES TO PROPOSED IMPROVEMENTS. CONTRACTOR SHALL NOTIFY U.S.A. TO LOCATE UTILITIES AT THE PROJECT SITE PRIOR TO START OF CONSTRUCTION.
- FOR PIPE BURSTING SEE PROJECT STANDARD SPECIFICATIONS FOR PIPE INSTALLATION AND MATERIAL.
- 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.
- A REPRESENTATIVE FROM PUBLIC WORKS AND THE CITY'S MUNICIPAL WATER DISTRICT MUST BE PRESENT AT ALL TIMES DURING CONSTRUCTION OPERATIONS AT CROSSINGS BETWEEN THE PROPOSED SEWER MAIN AND EXISTING WATER MAIN. CONTACT PUBLIC WORKS AND MENLO PARK MUNICIPAL WATER AT 650-330-6600 PRIOR TO COMMENCEMENT OF ANY WORK WITHIN THESE UTILITY CROSSING ZONES.



**PROFILE VIEW**  
 HORIZ: 1" = 20'  
 VERT: 1" = 4'

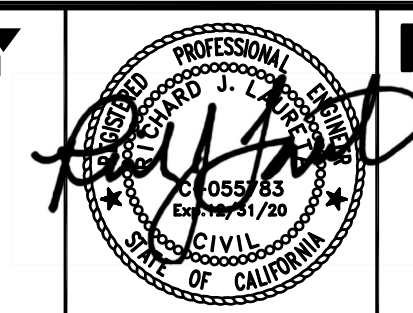
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SCALE: AS NOTED			
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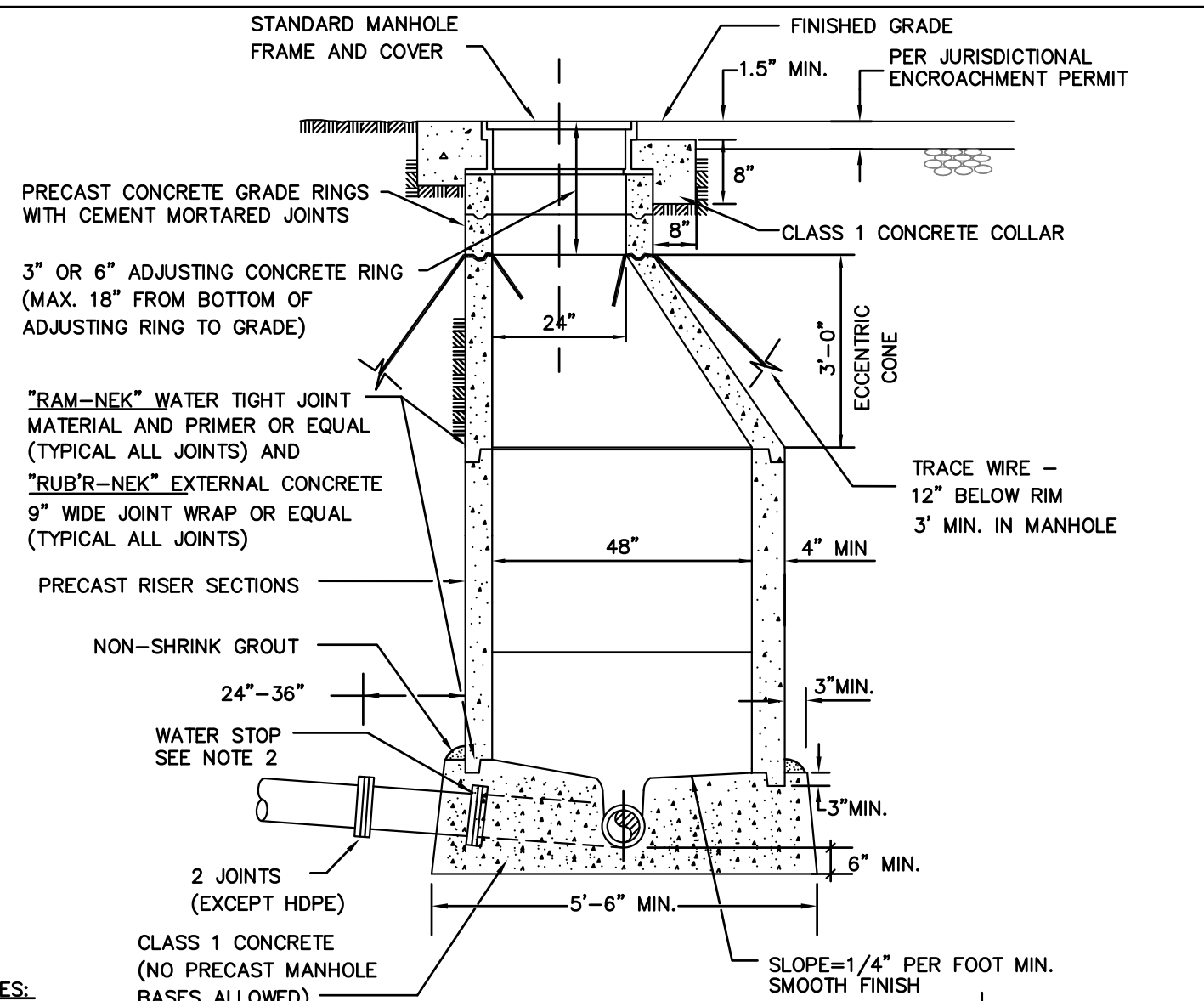
**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY

PROJECT No. 1761.5



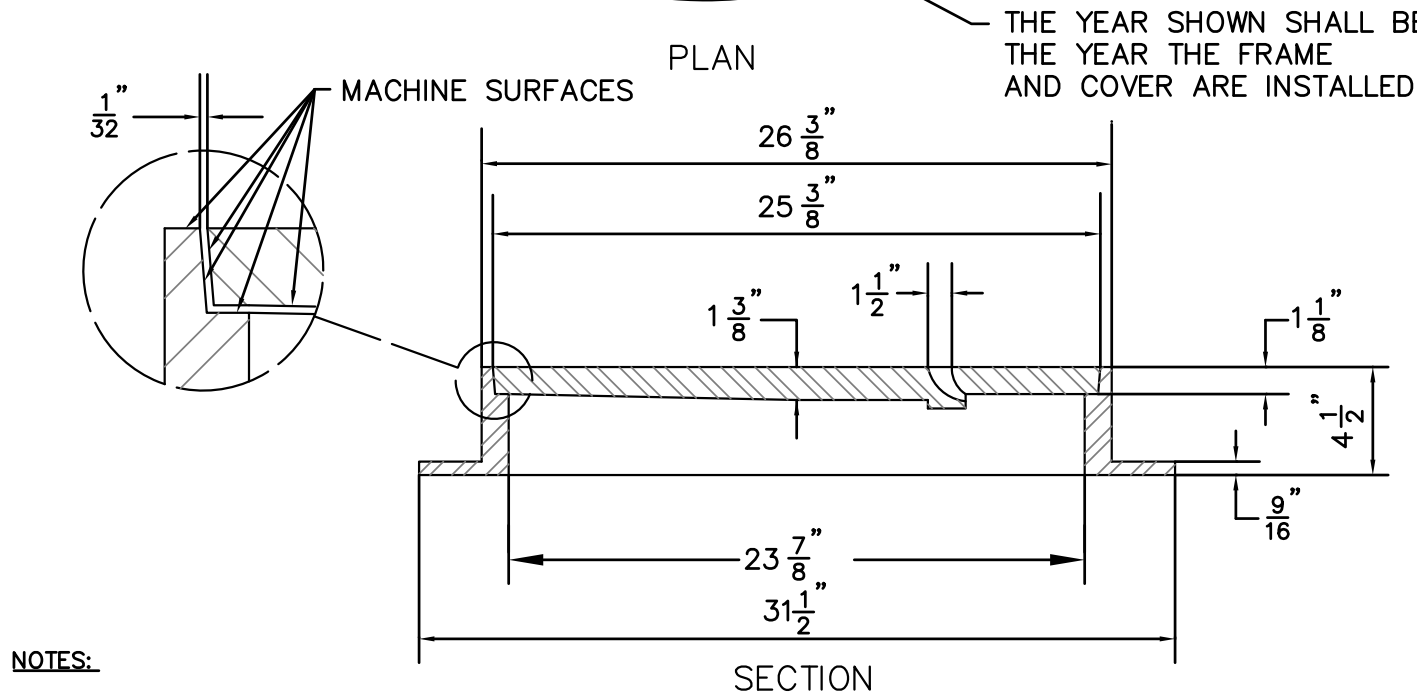
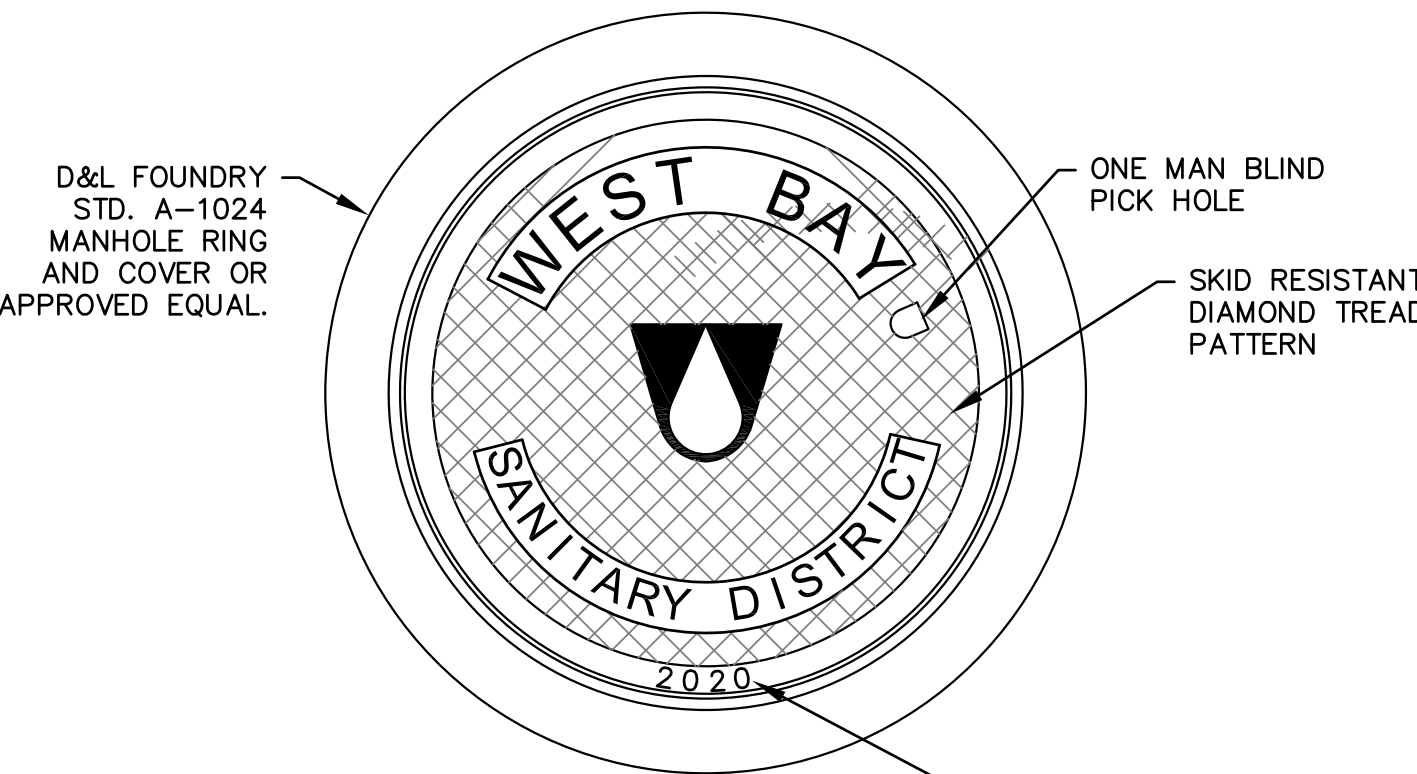
**NORTH BAY ROAD AND RINGWOOD AVENUE**  
**GILBERT AVENUE**  
**STA 0+00 - 3+83**  
**MENLO PARK, CALIFORNIA**

SHEET  
**34**  
 JOB NO.  
**1086**



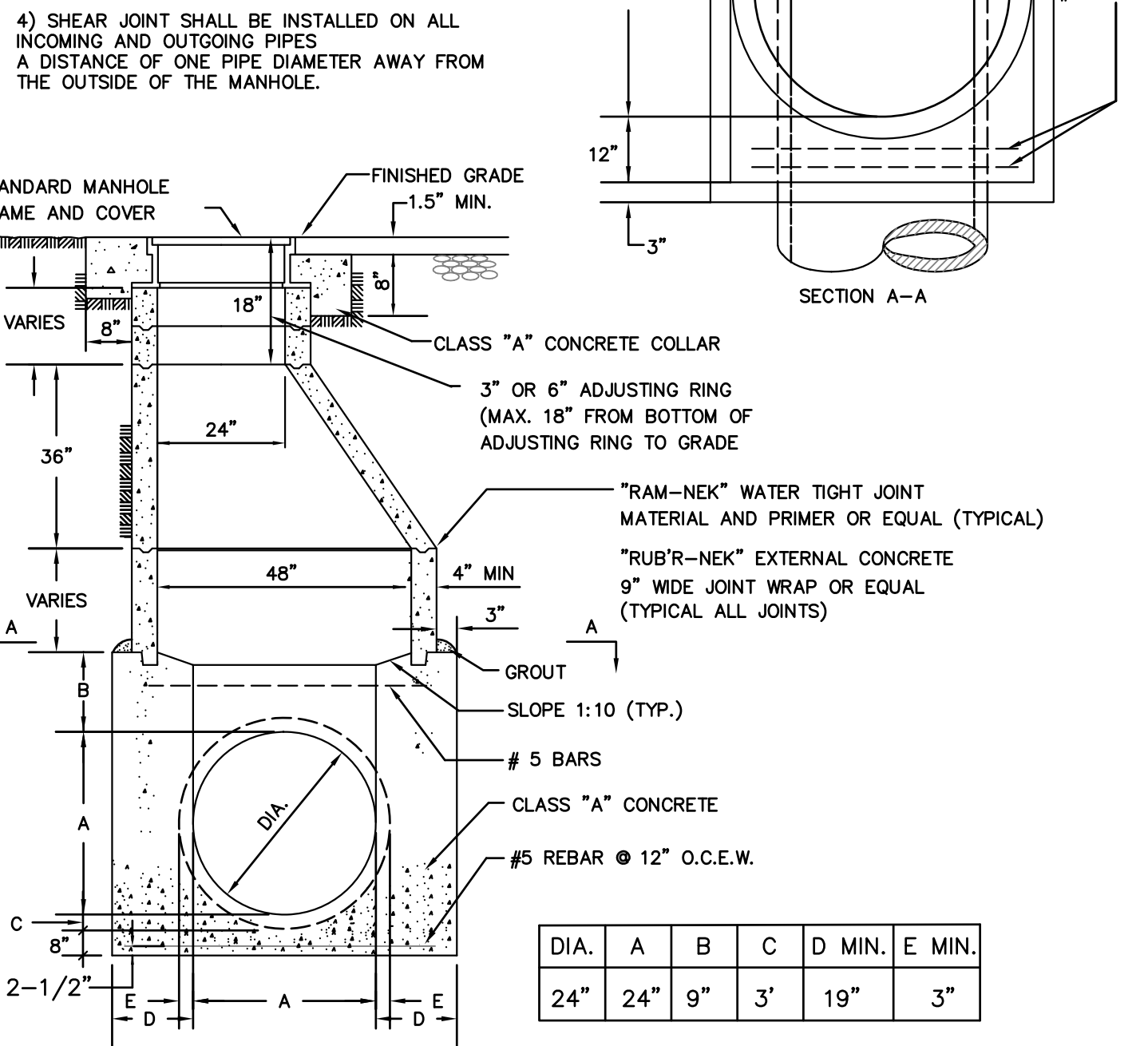
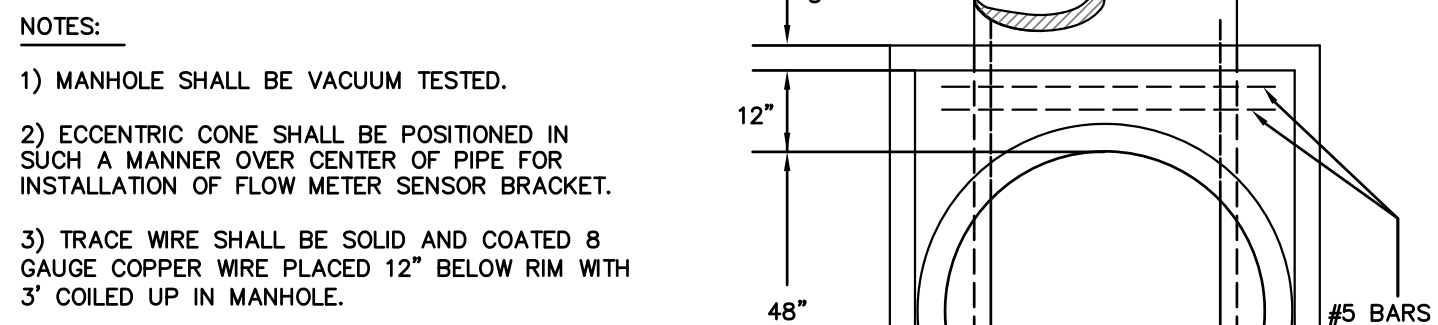
- NOTES:**
- 1) MANHOLE BASES SHALL BE PLACED ON IMPORTED BEDDING MATERIAL COMPACTED TO 95% RELATIVE COMPACTION.
  - 2) AN APPROVED WATER STOP SHALL BE INSTALLED ON ALL FLEXIBLE PIPE ENTERING OR LEAVING A MANHOLE, AND CENTERED UNDER MANHOLE WALL.
  - 3) INSTALL "RAM-NEK" WATER TIGHT JOINT MATERIAL OR EQUAL BETWEEN EACH JOINT OF CONE AND BARREL SECTIONS TO MAKE A FLEXIBLE WATERTIGHT JOINT. AFTER JOINT IS MADE, TRIM JOINT SMOOTH ON INSIDE OF MANHOLE.
  - 4) STEPS IN MANHOLES ARE NOT ALLOWED.
  - 5) TRACE WIRE SHALL BE SOLID AND COATED 8 GAUGE COPPER WIRE PLACED 12" BELOW RIM WITH 3' COILED UP IN MANHOLE.
  - 6) MANHOLES SHALL BE VACUUM TESTED.
  - 7) ECCENTRIC CONE SHALL BE POSITIONED IN SUCH A MANNER OVER CENTER OF PIPE FOR INSTALLATION OF FLOW METER SENSOR BRACKET.
  - 8) CONCRETE PLATFORMS MAY BE REQUIRED ON A CASE BY CASE BASIS.

**MANHOLE FOR 21" DIAMETER AND SMALLER PIPE**

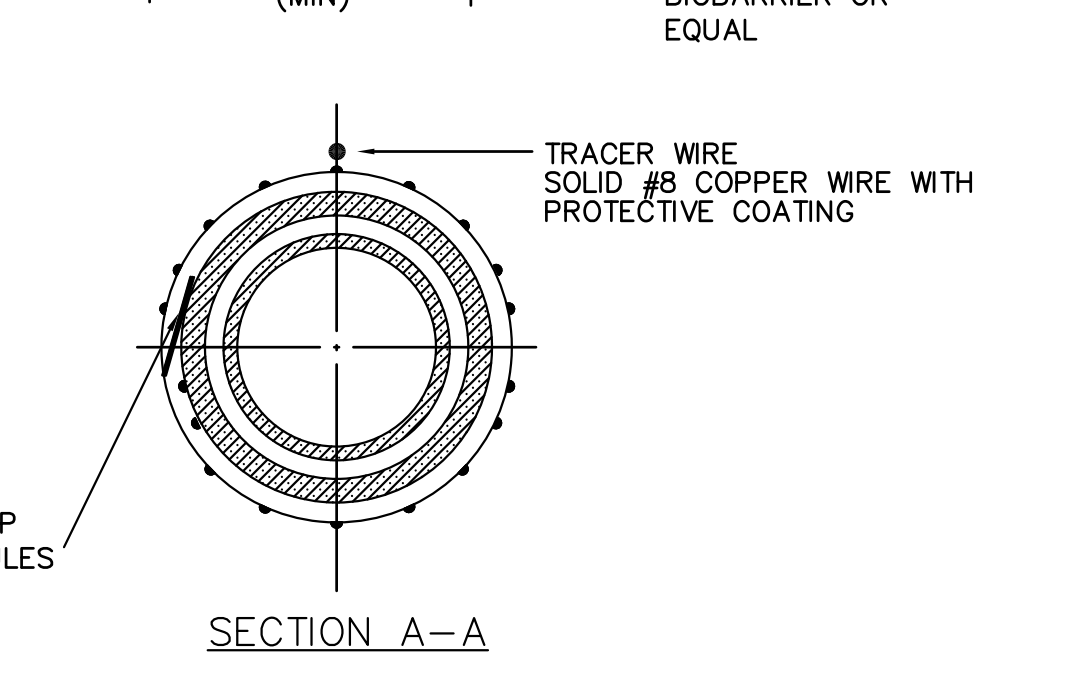
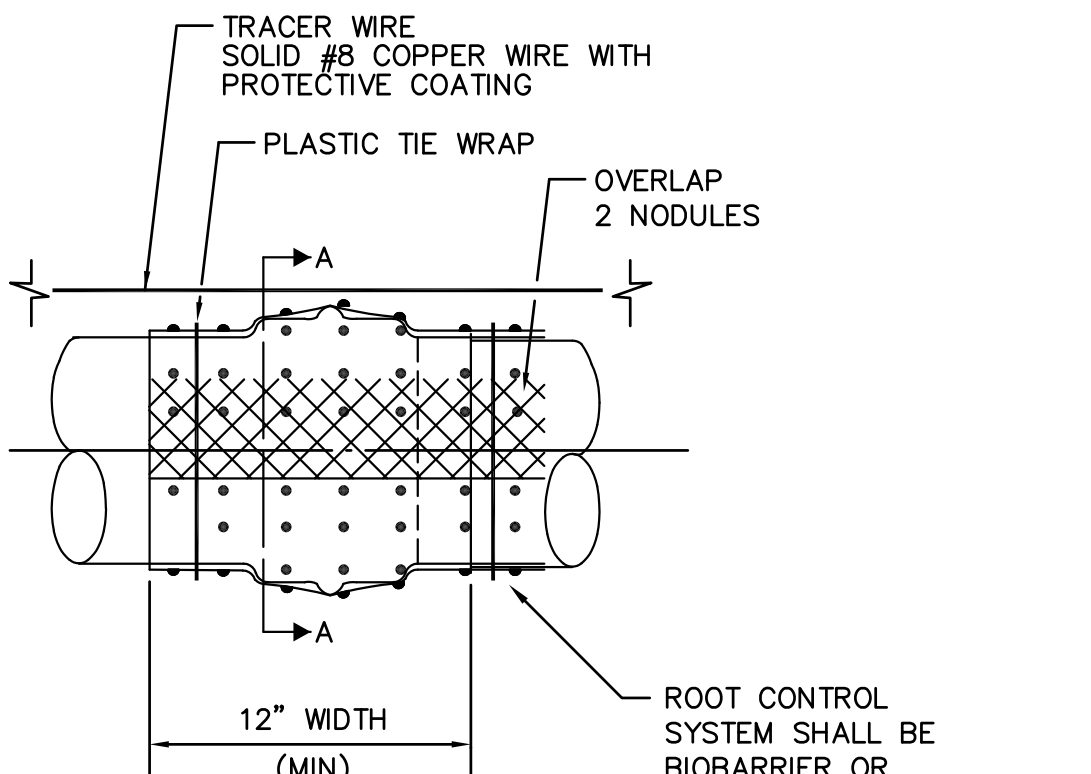


- NOTES:**
- 1) CAST IRON FOR FRAME AND COVER SHALL BE CLASS 30 MINIMUM PER ASTM A-48.
  - 2) COVERS SHALL BE H-20, FULL VEHICULAR TRAFFIC LOADING, RATED AND SHALL NOT EXCEED 145 POUNDS IN WEIGHT.
  - 3) THE FRAME AND COVER SHALL BE PAINTED OR DIPPED IN ASPHALT PRIOR TO LEAVING FOUNDRY.

**MANHOLE FRAME AND COVER**

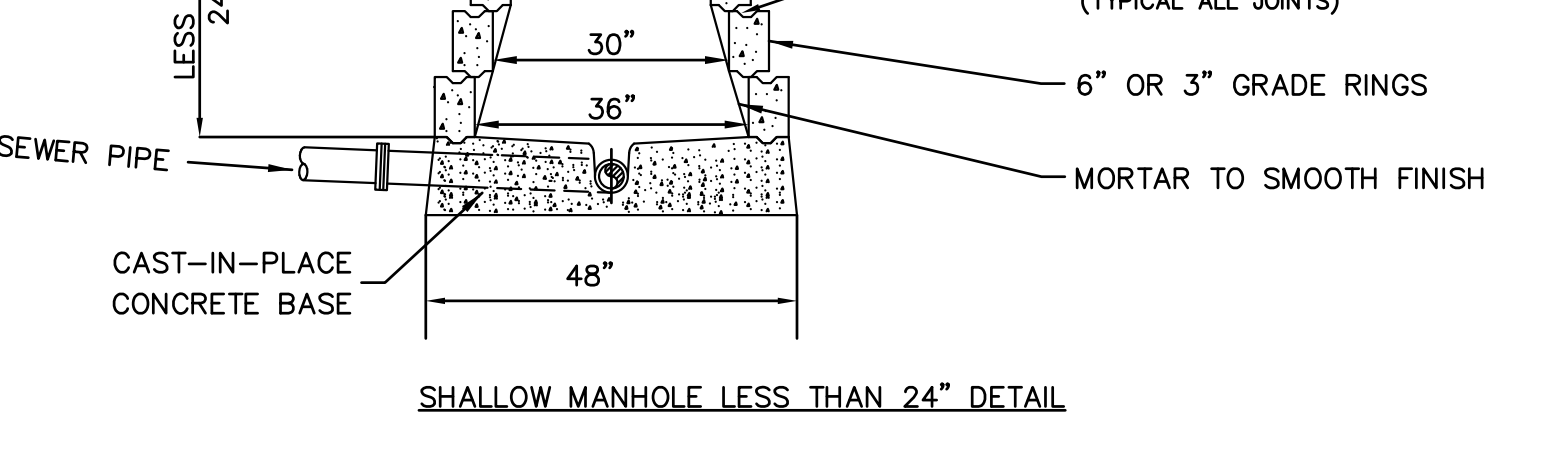
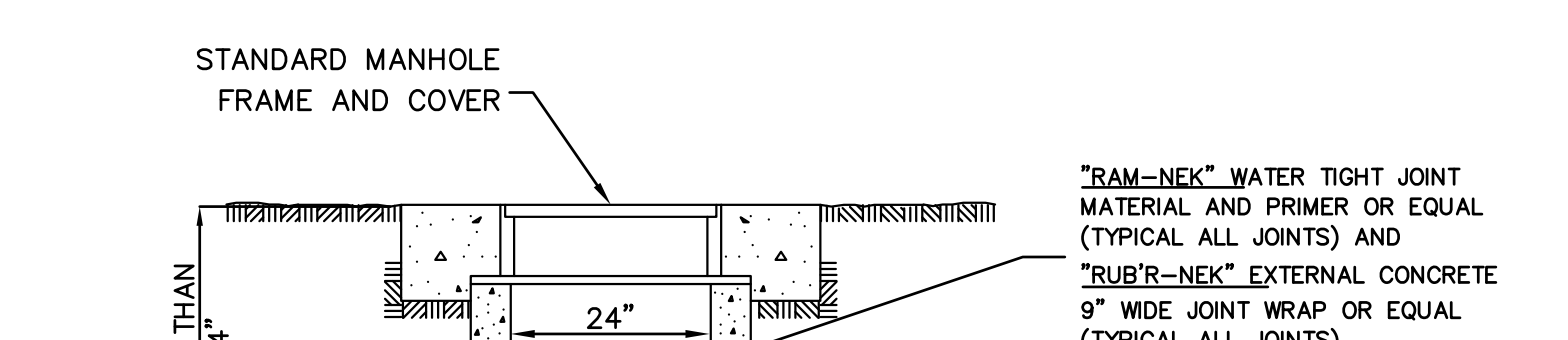
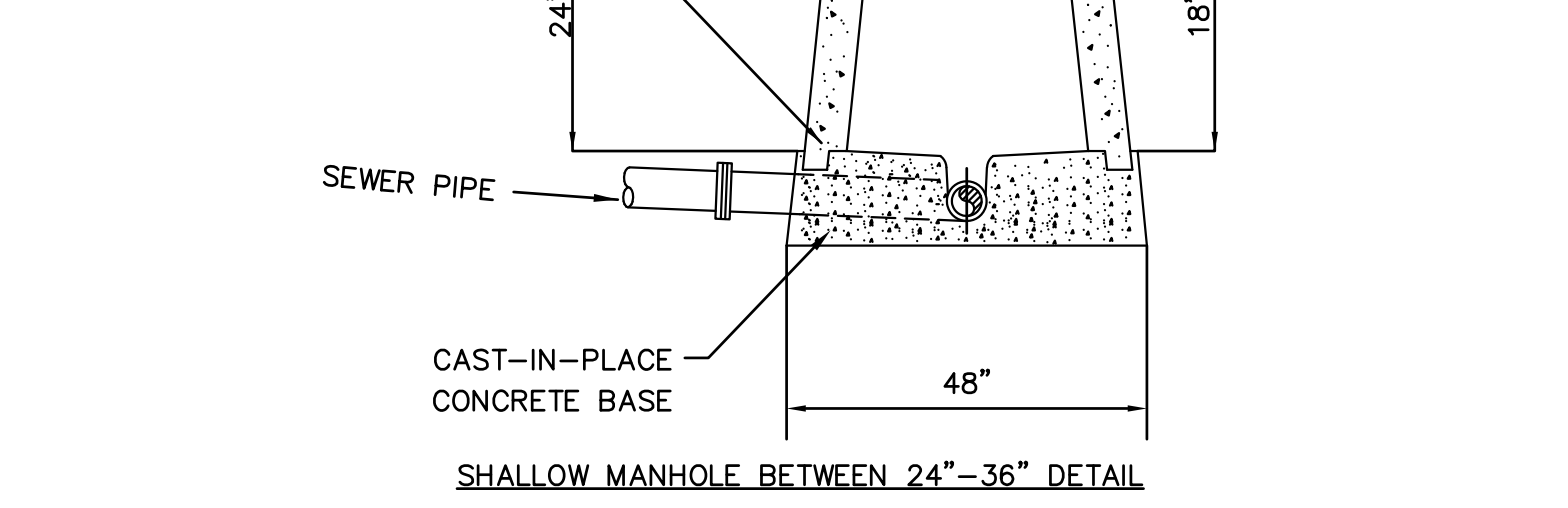
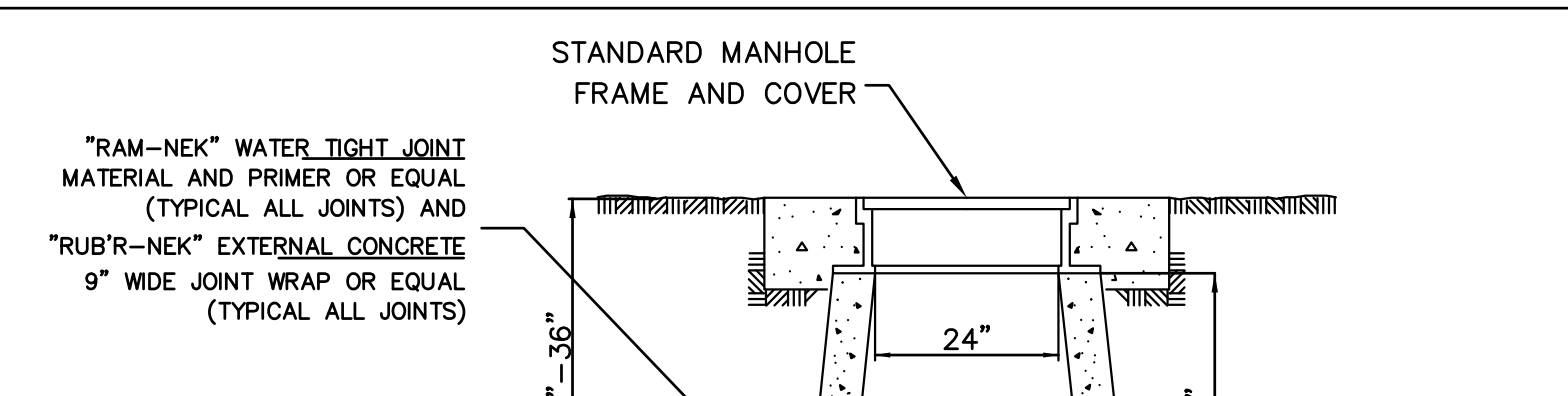


**MANHOLE FOR 24" DIAMETER AND LARGER PIPE**

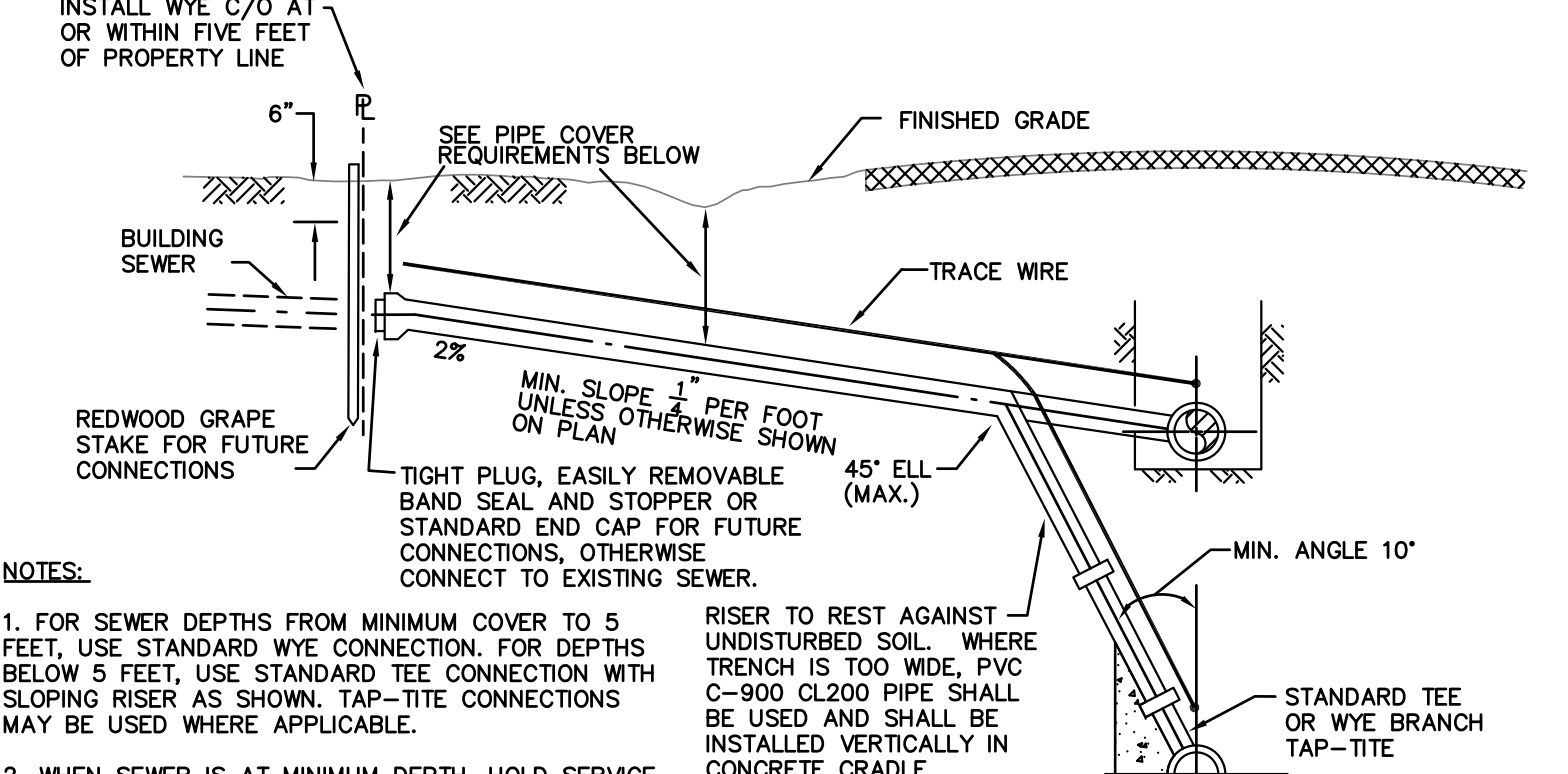


- APPLICATION:**
- 1) ALL NEW MAIN SEWER PROJECTS.
  - 2) ALL NEW OR REPLACEMENT SANITARY SEWER LATERAL CONNECTIONS.
  - 3) SANITARY SEWER LATERAL REPAIRS.

**ROOT CONTROL SYSTEM**

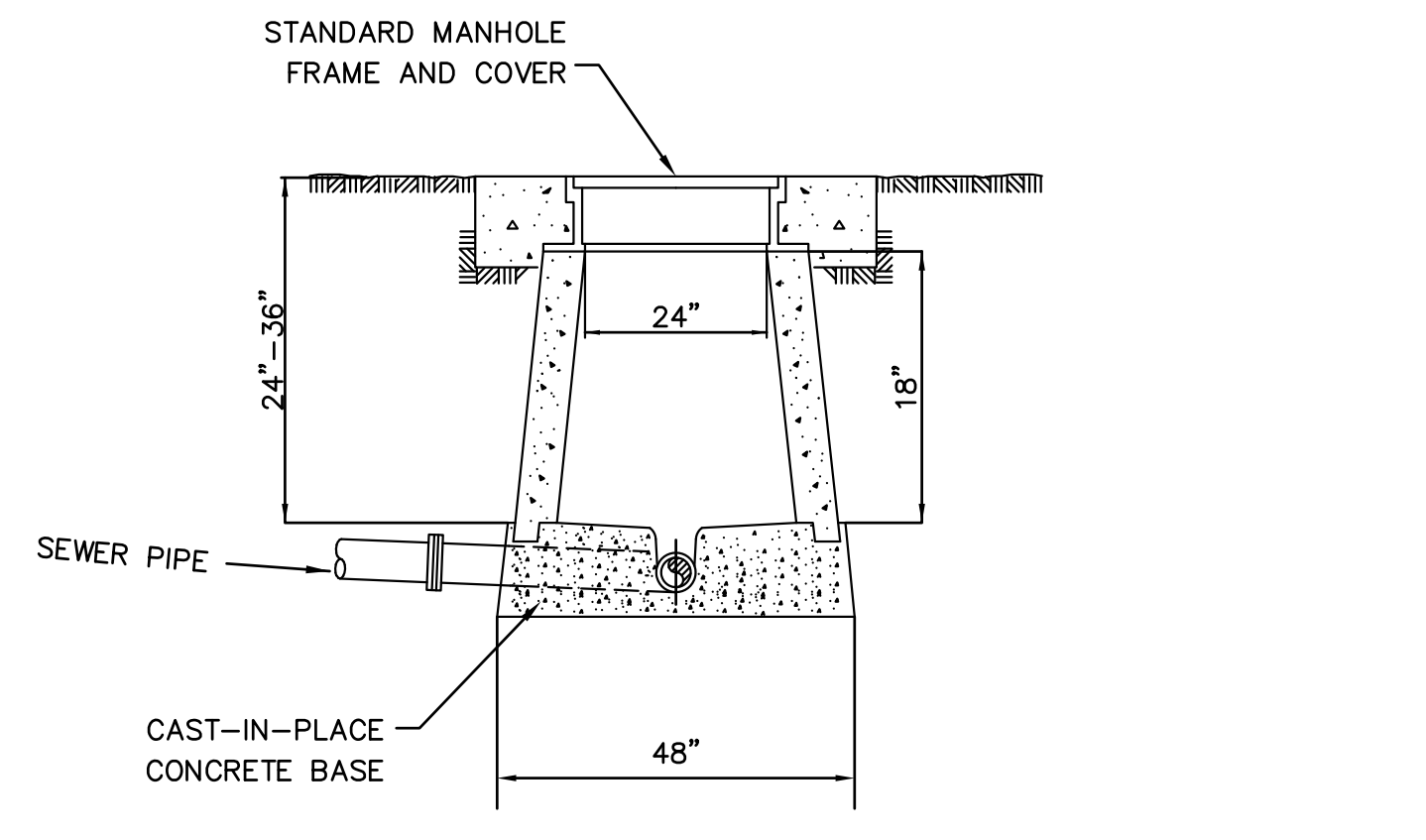


**SHALLOW MANHOLE DETAIL IN EASEMENTS WITH LIMITED ACCESS**

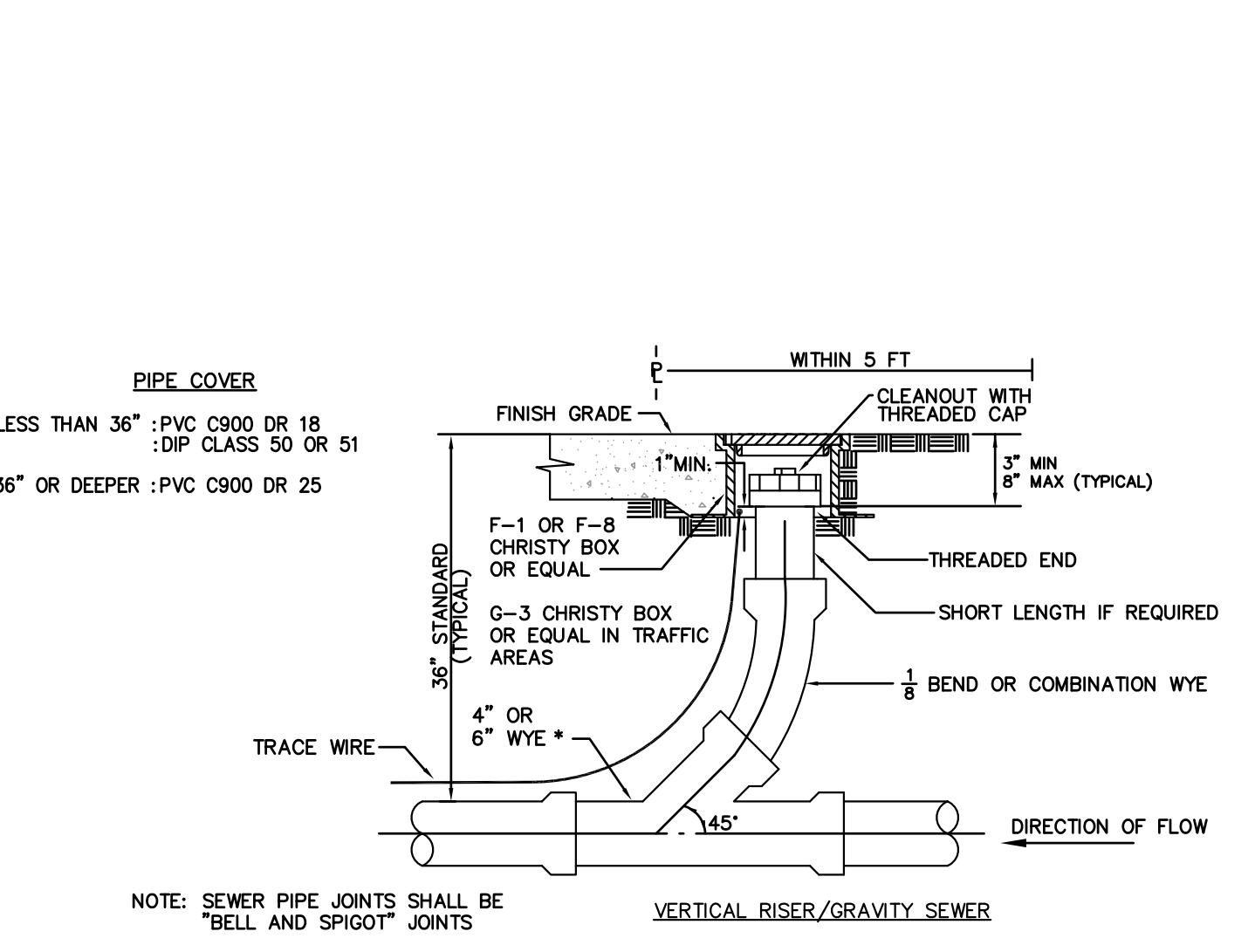


- NOTES:**
1. FOR SEWER DEPTHS FROM MINIMUM COVER TO 5 FEET, USE STANDARD WYE CONNECTION. FOR DEPTHS BELOW 5 FEET, USE STANDARD TEE CONNECTION WITH SLOPING RISER AS SHOWN. TAP-TITE CONNECTIONS MAY BE USED WHERE APPLICABLE.
  2. WHEN SEWER IS AT MINIMUM DEPTH, HOLD SERVICE LINE TO MINIMUM SLOPE AND LESSEN COVER AT PROPERTY LINE, OTHERWISE 3 FEET OF COVER TO OFFICIAL GRADE IS REQUIRED AT PROPERTY LINE.
  3. THE LOCATION OF ALL SEWER LATERALS SHALL BE MARKED WITH A LETTER "S" ON TOP OF CURB OR BACK OF WALK.
  4. ALL SERVICE TEES OR WYES SHALL BE MANUFACTURER'S STANDARD FITTINGS. CONNECTION CLOSURE SHALL BE BY STANDARD BAND SEAL COUPLINGS WITH 316 STAINLESS STEEL SHEAR RING ON SERVICE ADDITIONS. NO PIPE BREAKING AND CONCRETE PATCHING WILL BE PERMITTED, ONLY NEATLY SNAPPED OR SAWCUT LENGTHS WILL BE ALLOWED.
  5. 8 GAUGE COPPER WIRE FOR TRACING PURPOSES SHALL BE PLACED ON ALL NEW LATERALS AND REPLACEMENT LATERALS WHEN EXCAVATION IS FROM MAIN LINE TO THE PROPERTY LINE CLEANOUT. WIRE TO BE BROUGHT TO RISER WITH TWO FEET COILED INSIDE BOX.
  6. TAP-TITE AND TEE CONNECTIONS ARE NOT ALLOWED IN TERMINATING SEWER MAINS (MOST UPSTREAM LINE).
  7. CONTRACTOR SHALL PLACE ROOT CONTROL FABRIC OVER ALL JOINTS AS SHOWN ON WEST BAY SANITARY DISTRICT DETAIL NO. 13.
  8. CONTRACTOR SHALL INSTALL BEDDING AND BACKFILL MATERIAL AS SHOWN ON WEST BAY SANITARY DISTRICT DETAIL NO. 8.
- PIPE COVER**  
 LESS THAN 36" - DIP CLASS 50 OR 51  
 PVC C900 CLASS 200  
 36" OR DEEPER - PVC C900 CLASS 150
- SANITARY SEWER LATERAL CONNECTIONS**

**DEEP SEWER - GREATER THAN 10'**



**SHALLOW MANHOLE BETWEEN 24"-36" DETAIL CONSTRUCTION SEAL COAT**



- NOTES:**
- 1) THE CLEAN OUT ASSEMBLY SHALL BE THE SAME SIZE AS THE LATERAL SEWER IT SERVES.
  - 2) COVERS SHALL BE C.I. FOR STREETS, ALLEYS OR DRIVES, OTHERWISE FIBRELYTE OR CONCRETE FOR NON-TRAFFIC USE.
  - 3) 8 GAUGE SOLID AND COATED COPPER WIRE FOR TRACING PURPOSES SHALL BE PLACED ON ALL NEW LATERALS AND REPLACEMENT LATERALS WHEN EXCAVATION IS FROM MAIN LINE TO THE PROPERTY LINE CLEANOUT. WIRE TO BE BROUGHT TO RISER WITH TWO FEET COILED INSIDE BOX.
  - 4) ALL CLEAN OUT BOX LIDS SHALL BE MARKED WITH A LETTER "S" OR THE WORD "SEWER".
  - 5) WYE SHALL BE INSTALLED AT OR WITHIN 5 FEET OF PROPERTY LINE.
  - 6) CONTRACTOR SHALL PLACE ROOT CONTROL FABRIC OVER ALL JOINTS AS SHOWN ON WEST BAY SANITARY DISTRICT DETAIL NO. 13.
  - 7) CONTRACTOR SHALL INSTALL BEDDING AND BACKFILL MATERIAL AS SHOWN ON WEST BAY SANITARY DISTRICT DETAIL NO. 8.

**SERVICE LATERAL CLEANOUT**

DATE:	10/14/2020	10/14/2020	BID SET
SCALE:	AS NOTED		
DESIGNED:	LFH & FYM		
DRAWN:	FYM		
CHECKED:	LFH		
PROJ. ENGR:	RJL		
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**WEST BAY SANITARY DISTRICT**  
 SAN MATEO COUNTY

PROJECT No. 1761.5

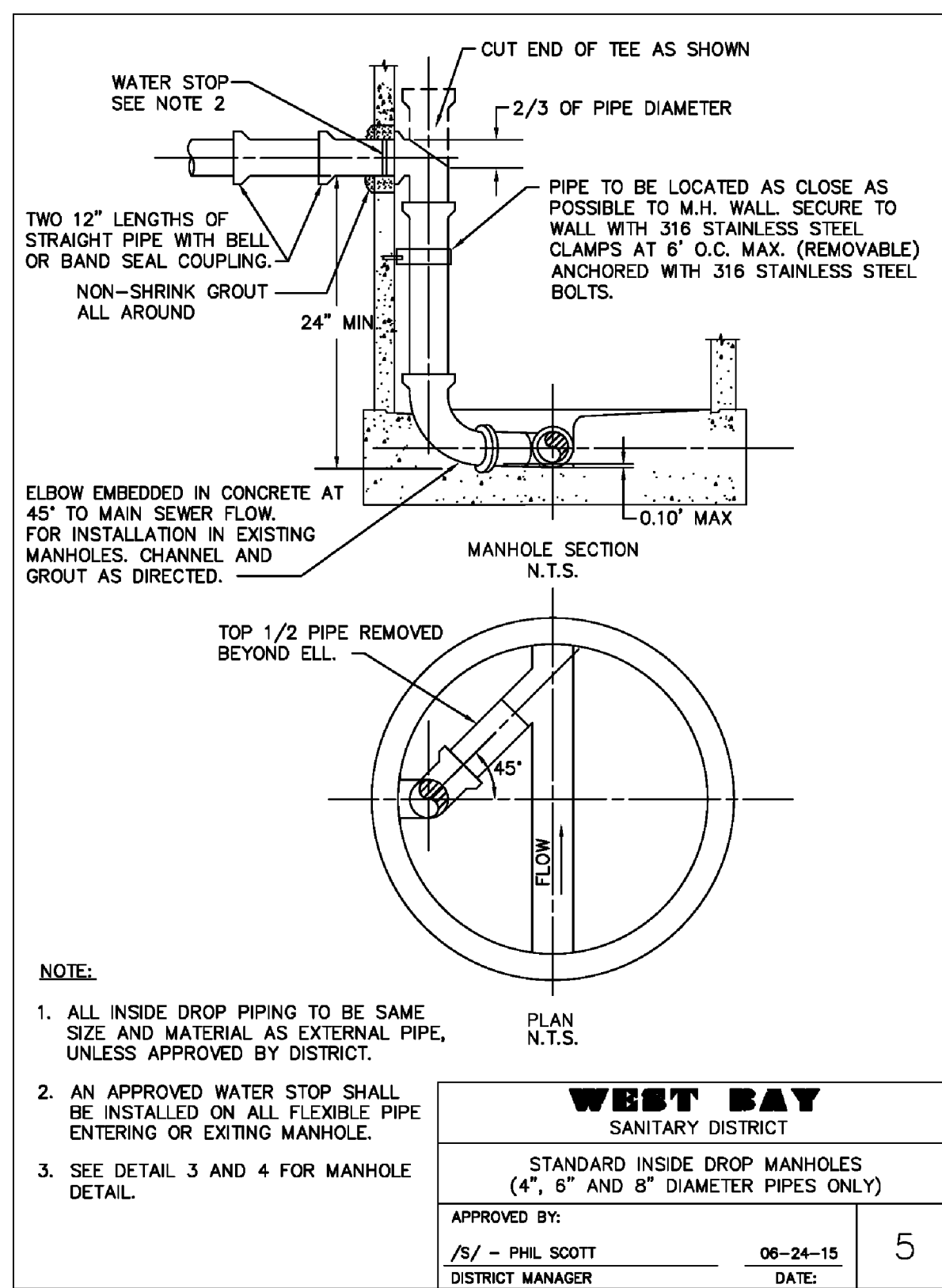
**NORTH BAY ROAD AND RINGWOOD AVENUE**

**DETAIL SHEET # 1**

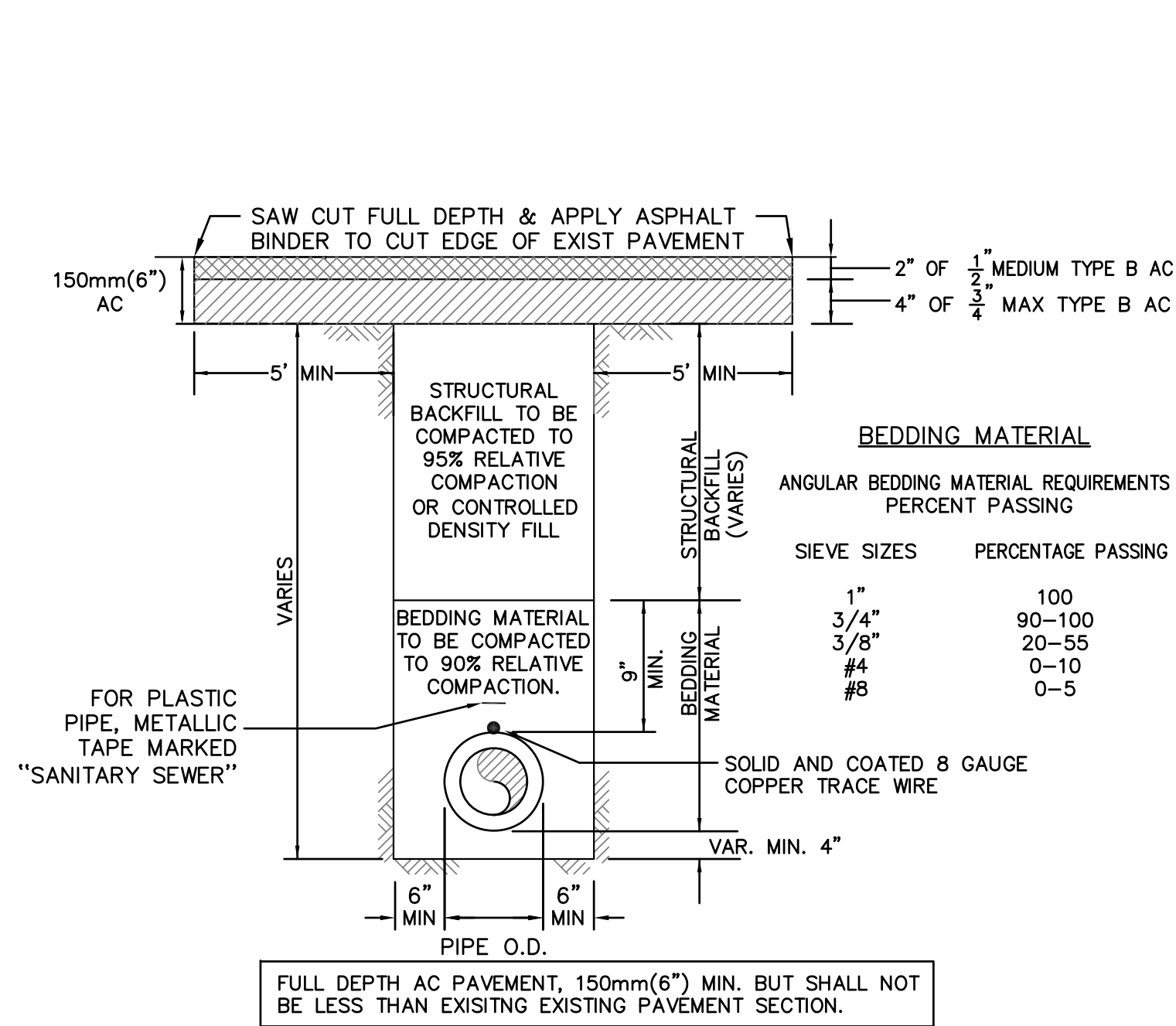
**MENLO PARK, CALIFORNIA**

SHEET  
**35**

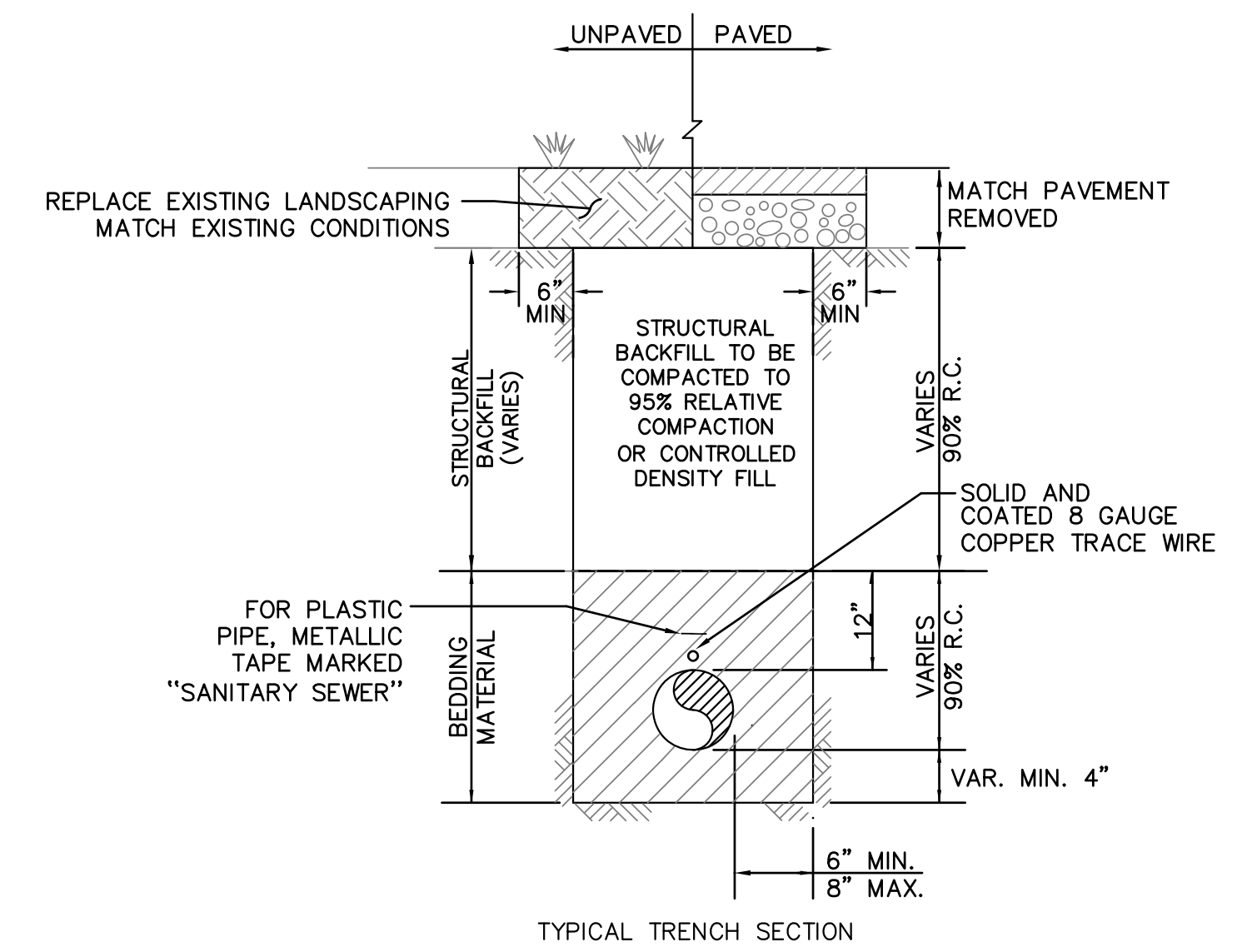
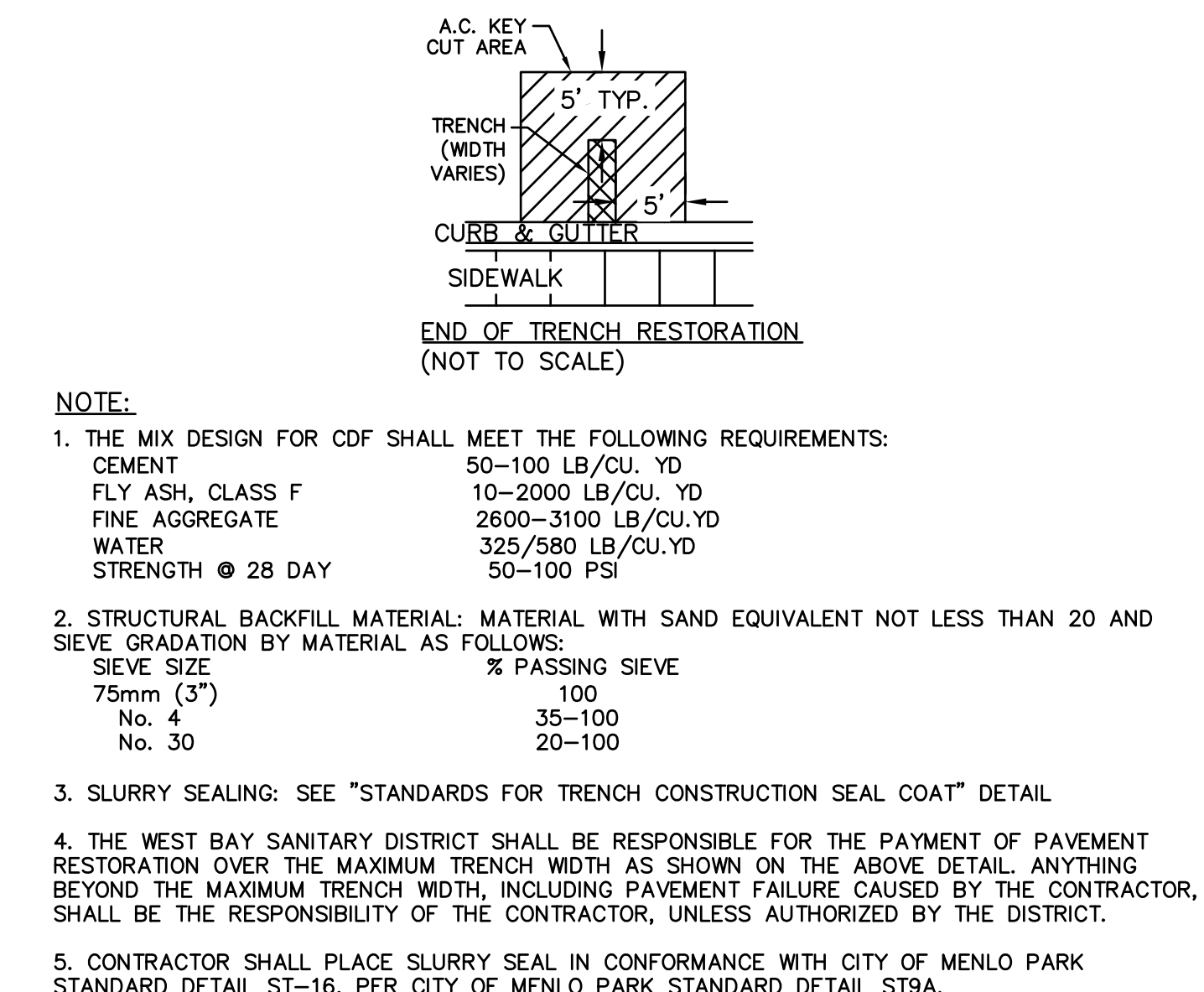
JOB No.  
**1086**



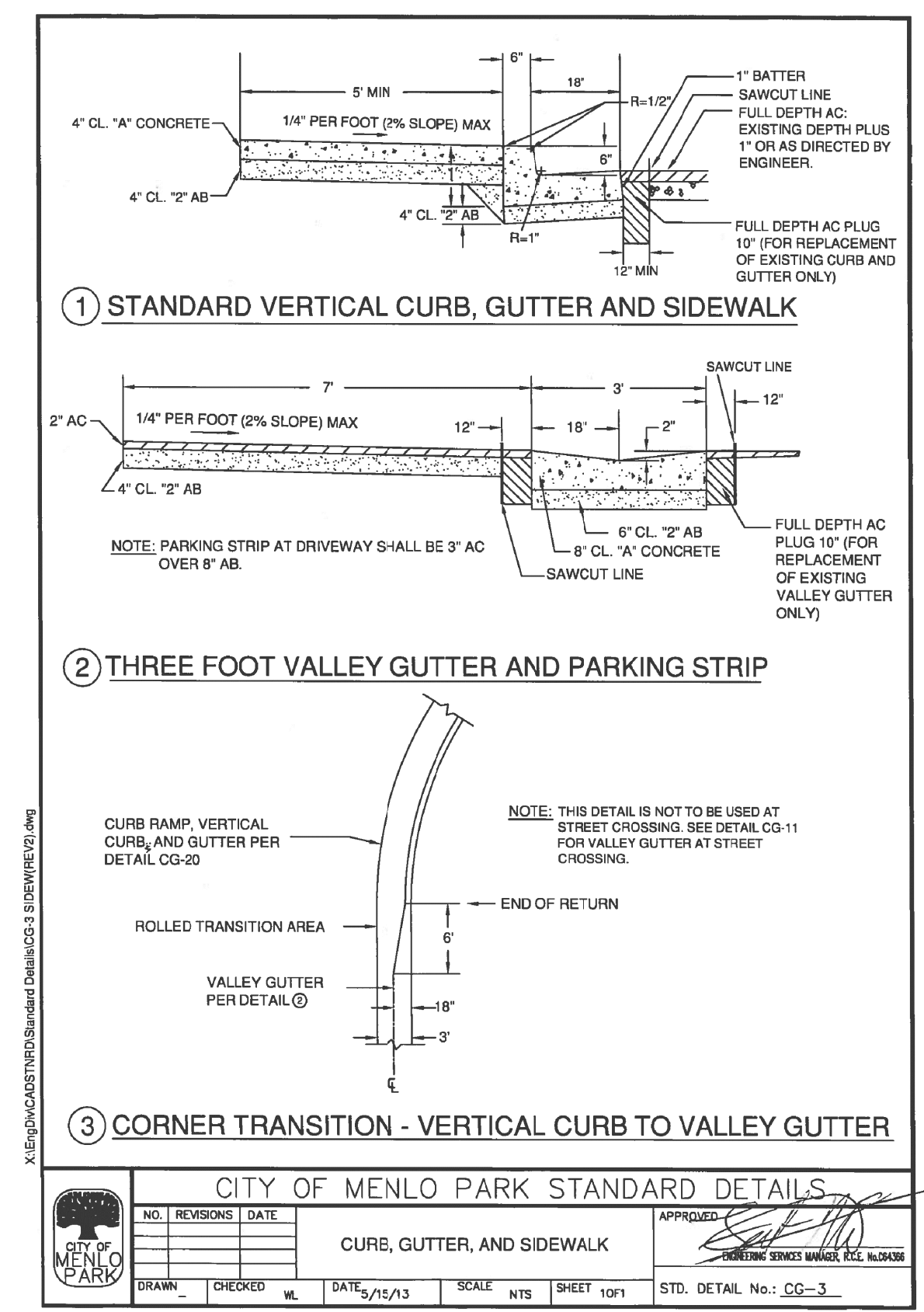
STANDARD INSIDE DROP MANHOLES (ONLY WITH PVC)



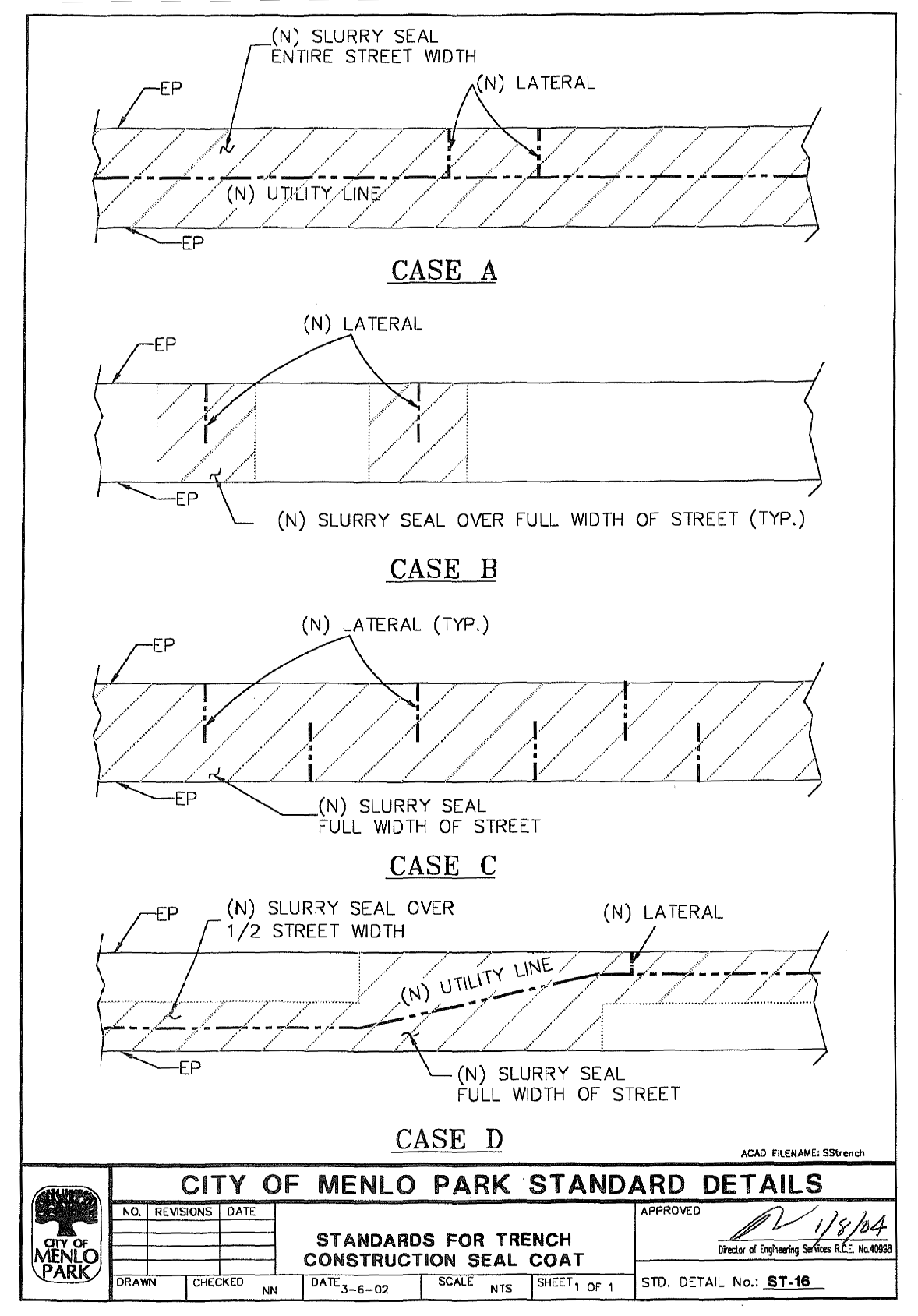
UTILITY TRENCH-CITY OF MENLO PARK-RIGHT OF WAY (MODIFIED PER CITY OF MENLO PARK STANDARDS)



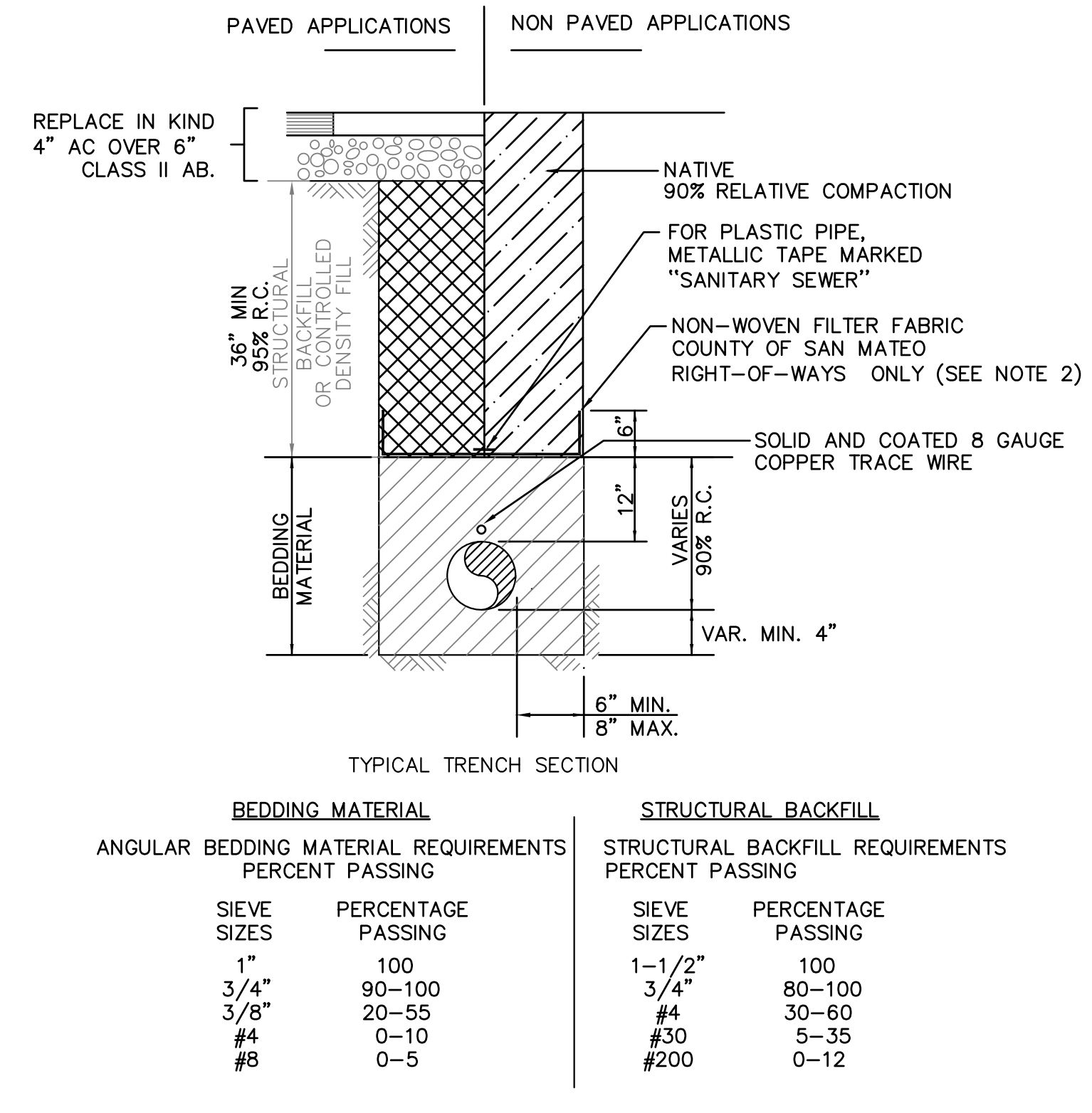
UTILITY TRENCH-IN EASEMENT AREAS



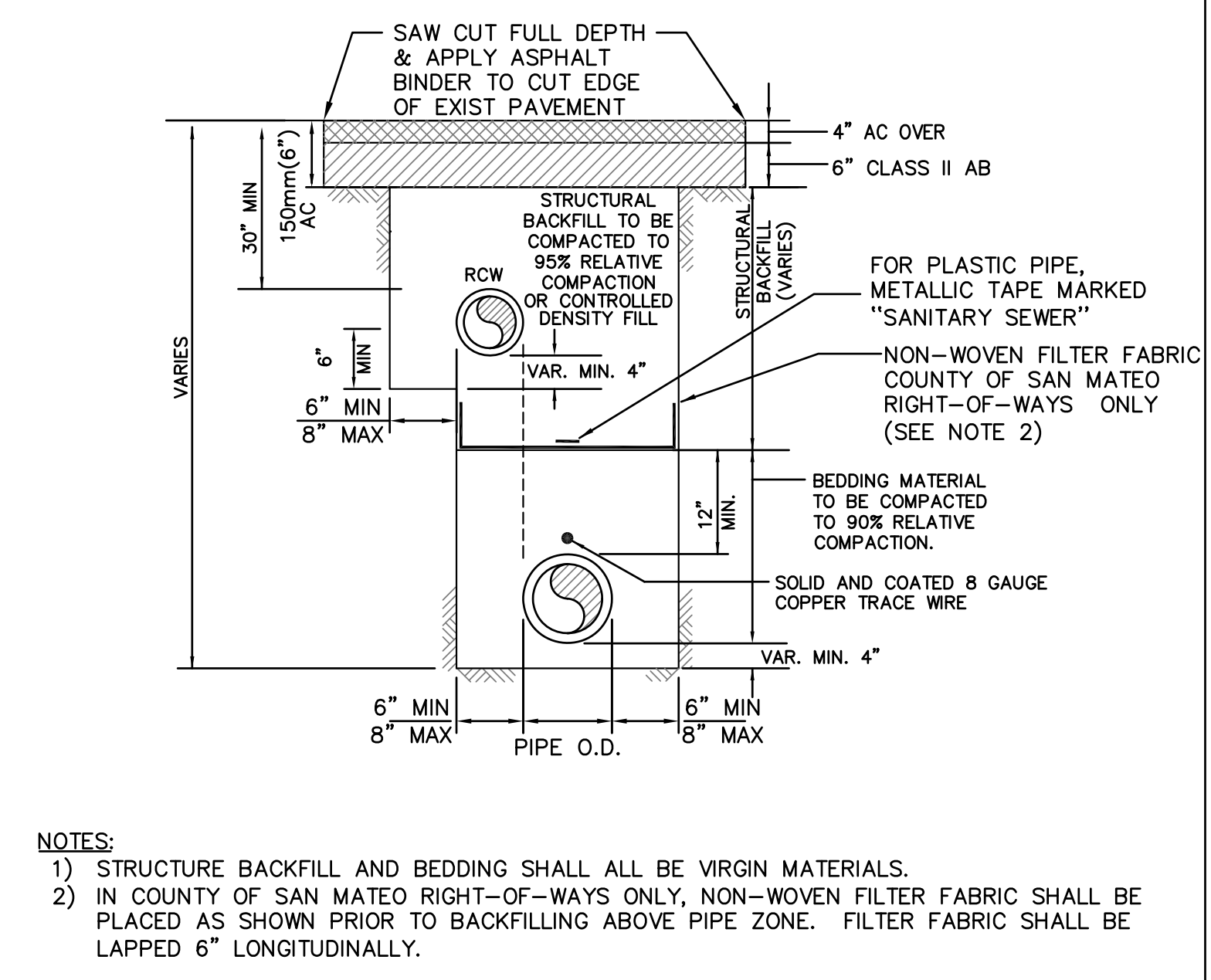
STANDARDS FOR CURB, GUTTER, AND SIDEWALK



SLURRY SEAL CITY OF MENLO PARK



SAN MATEO COUNTY TRENCH DETAIL



SAN MATEO COUNTY TRENCH DETAIL SS/ RECYCLE WATER (RCW) LINE TRENCH (RINGWOOD AVENUE) ADD ALTERNATE

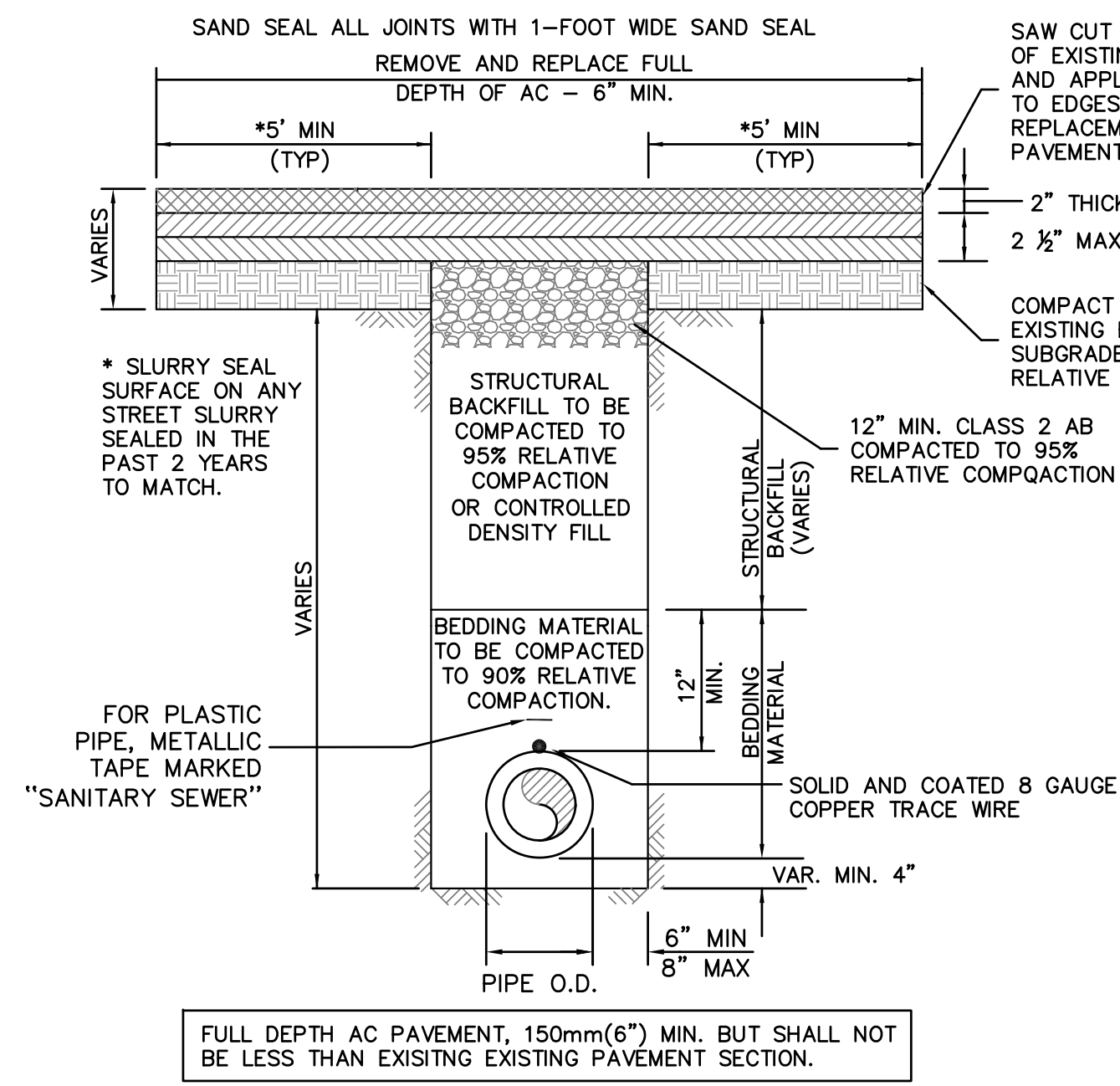
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**WEST BAY**  
SANITARY DISTRICT  
SAN MATEO COUNTY  
PROJECT No. 1761.5

**NORTH BAY ROAD AND RINGWOOD AVENUE**  
**DETAIL SHEET # 2**  
**MENLO PARK, CALIFORNIA**

SHEET	36
JOB No.	1086



SAW CUT FULL DEPTH OF EXISTING PAVEMENT AND APPLY TACK COAT TO EDGES PRIOR TO REPLACEMENT OF PAVEMENT

**BEDDING MATERIAL**  
ANGULAR BEDDING MATERIAL REQUIREMENTS PERCENT PASSING

SIEVE SIZES	PERCENTAGE PASSING
1"	100
3/4"	90-100
3/8"	20-55
#4	0-10
#8	0-5

**CONTROL DENSITY FILL**  
THE MIX DESIGN FOR CDF SHALL MEET THE FOLLOWING REQUIREMENTS:

CEMENT	50-100 LB/CU. YD
FLY ASH, CLASS F	10-2000 LB/CU. YD
FINE AGGREGATE	2600-3100 LB/CU. YD
WATER	325/580 LB/CU. YD
STRENGTH @ 28 DAY	50-100 PSI

**STRUCTURAL BACKFILL MATERIAL**  
STRUCTURAL BACKFILL MATERIAL: MATERIAL WITH SAND EQUIVALENT NOT LESS THAN 20 AND SIEVE GRADATION BY MATERIAL AS FOLLOWS:

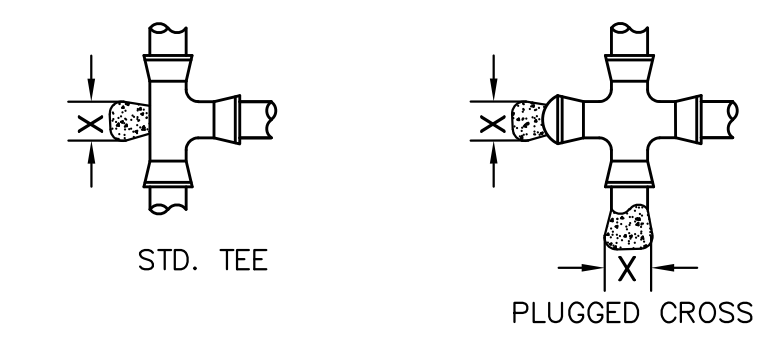
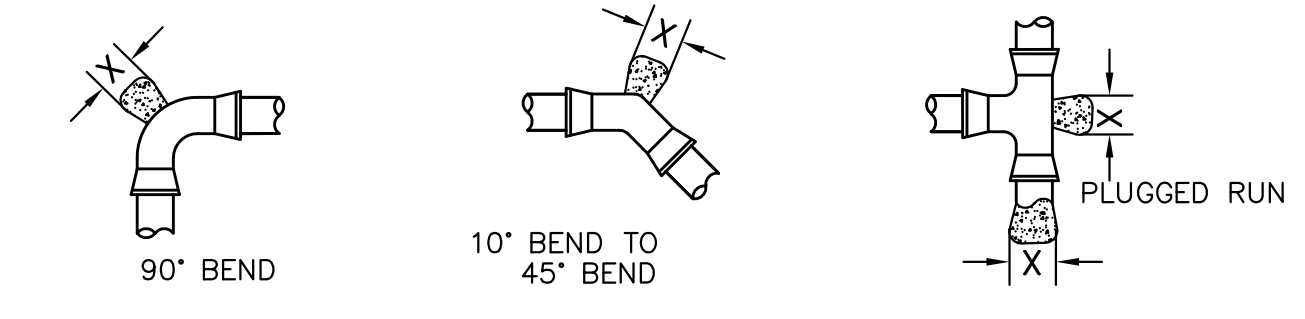
SIEVE SIZE	% PASSING SIEVE
75mm (3")	100
No. 4	35-100
No. 30	20-100

FULL DEPTH AC PAVEMENT, 150mm(6") MIN. BUT SHALL NOT BE LESS THAN EXISTING EXISTING PAVEMENT SECTION.

**NOTES:**

1. TEMPORARY PAVEMENT SHALL BE PLACED IN UNPLATED TRENCHES AT THE END OF EACH DAY. MATERIAL SHALL BE HIGH QUALITY PATCH MIX SUCH AS "GRANITEPATCH", "QUICKPATCH", OR "DUROPATCH". CUTBACK SHALL NOT BE USED IN STREET AREAS FOR TEMPORARY PATCHING.
2. PERMANENT SURFACE RESTORATION SHALL BE INSTALLED NO SOONER THAN 10 DAYS AND NO MORE THAN 25 WORKING DAYS AFTER TEMPORARY SURFACE IS FIRST PUT IN PLACE.

**UTILITY TRENCH-TOWN OF ATHERTON-RIGHT OF WAY  
(MODIFIED PER TOWN OF ATHERTON STANDARDS)**



NOTE:  
1. ALL THRUST BLOCK SHALL BEAR AGAINST UNDISTURBED EARTH  
2. CONCRETE SHALL BE CLASS A.

AREA (X) IN SQ. FEET

TYPE OF FITTING	SIZE OF PIPE		
	4"	6"	8"
90° ELL	2	5	8
45° ELL	1	3	5
12 1/2° ELL	1	2	3
11 1/4° ELL	1	1	2
PLUG/TEE	1.5	4	6

BASED ON SOIL BEARING VALUE OF 2000 LBS PER SQ. FT. AND WATER PRESSURE OF 224 PSI. F-FORM AS REQUIRED TO KEEP CONCRETE OFF MECHANICAL JOINT OR FLANGE BOLTS.

**THRUST BLOCK DETAIL**

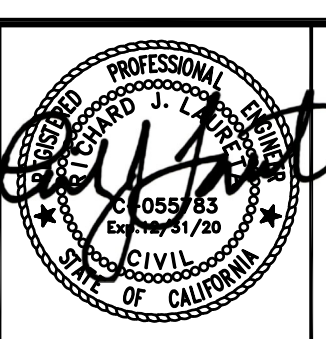
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CHECKED:	LFH		
PROJ. ENGR:	RJL		
BY	DATE	DESCRIPTION OF REVISIONS	APP'D

**FL FREYER & LAURETA, INC.**  
CIVIL ENGINEERS • SURVEYORS • CONSTRUCTION MANAGERS

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**WEST BAY**  
SANITARY DISTRICT  
SAN MATEO COUNTY

PROJECT No. 1761.5



**NORTH BAY ROAD AND RINGWOOD AVENUE**  
**DETAIL SHEET # 3**  
**MENLO PARK, CALIFORNIA**

SHEET	37
JOB NO.	1086