

WEST BAY SANITARY DISTRICT

SAN MATEO COUNTY CALIFORNIA

BELLE HAVEN SEWER PROJECT

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 TOWN OF ATHERTON, 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, 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 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.

INDEX OF DRAWINGS

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2	PLAN & PROFILE - ALLEY (WILLOW/CARLTON) STA: 0+00 - 5+50	19	PLAN & PROFILE - HENDERSON EASEMENT STA: 0+00 - 3+59
3	PLAN & PROFILE - ALLEY (WILLOW/CARLTON) STA: 5+50 - 11+00	20	PLAN & PROFILE - NEWBRIDGE STREET STA: 0+00 - 5+50
4	PLAN & PROFILE - ALLEY (WILLOW/CARLTON) STA: 11+00 - 16+50	21	PLAN & PROFILE - NEWBRIDGE STREET STA: 5+50 - 10+70
5	PLAN & PROFILE - ALLEY (WILLOW/CARLTON) STA: 16+50 - 22+13	22	PLAN & PROFILE - EASEMENT (MENLO OAKS) STA: 0+00 - 2+30
6	PLAN & PROFILE - EASEMENT (CARLTON/MADERA) STA: 00+00 - 5+50	23	DETAIL SHEET
7	PLAN & PROFILE - EASEMENT (CARLTON/MADERA) STA: 5+50 - 11+00	24	STRIPING PLAN
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9	PLAN & PROFILE - EASEMENT (CARLTON/MADERA) STA: 16+50 - 19+97		
10	PLAN & PROFILE - PIERCE EASEMENT (EAST) STA: 0+00 - 0+83		
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12	PLAN & PROFILE - IVY EASEMENT STA: 00+00 - 5+89		
13	PLAN & PROFILE - EASEMENT (MADERA/SEVIER) STA: 0+00 - 5+50		
14	PLAN & PROFILE - EASEMENT (MADERA/SEVIER) STA: 5+50 - 11+00		
15	PLAN & PROFILE - EASEMENT (MADERA/SEVIER) STA: 11+00 - 15+53		
16	PLAN & PROFILE - EASEMENT (SEVIER/HOLLYBURNE) STA: 0+00 - 5+50		
17	PLAN & PROFILE - EASEMENT (SEVIER/HOLLYBURNE) STA: 5+50 - 11+00		
18	PLAN & PROFILE - EASEMENT (SEVIER/HOLLYBURNE) STA: 11+00 - 13+79		

LEGEND

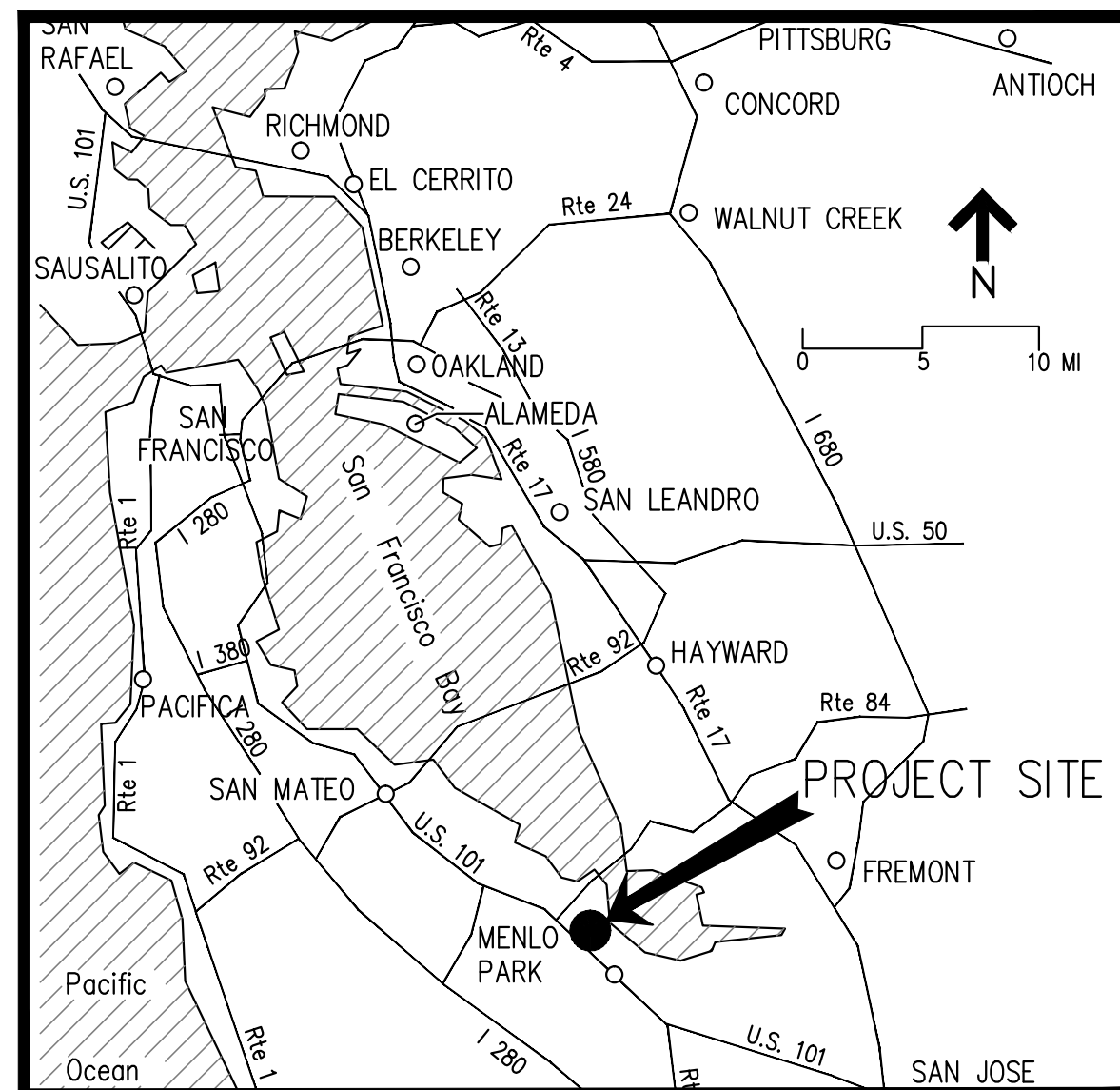
<ul style="list-style-type: none"> SANITARY SEWER TO BE INSTALLED SS - EXISTING SANITARY SEWER SS LAT - EXISTING LATERAL G - EXISTING GAS LINE E O.H. - EXISTING ELECTRICAL LINE OVER HEAD w - EXISTING WATER LINE SD - EXISTING STORM DRAIN ROLLED CURB AND GUTTER CURB AND GUTTER 	<ul style="list-style-type: none"> PP/JP - EXISTING JOINT POLE/ POWER POLE G - EXISTING GAS VALVE W - EXISTING WATER VALVE WM - EXISTING WATER METER CO - EXISTING CLEAN OUT FD - EXISTING FIRE HYDRANT S/D - EXISTING SEWER / STORM DRAIN MANHOLE ELEC - EXISTING ELECTRICAL PULL BOX CB - EXISTING CATCH BASIN TS - TRAFFIC SIGN
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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.

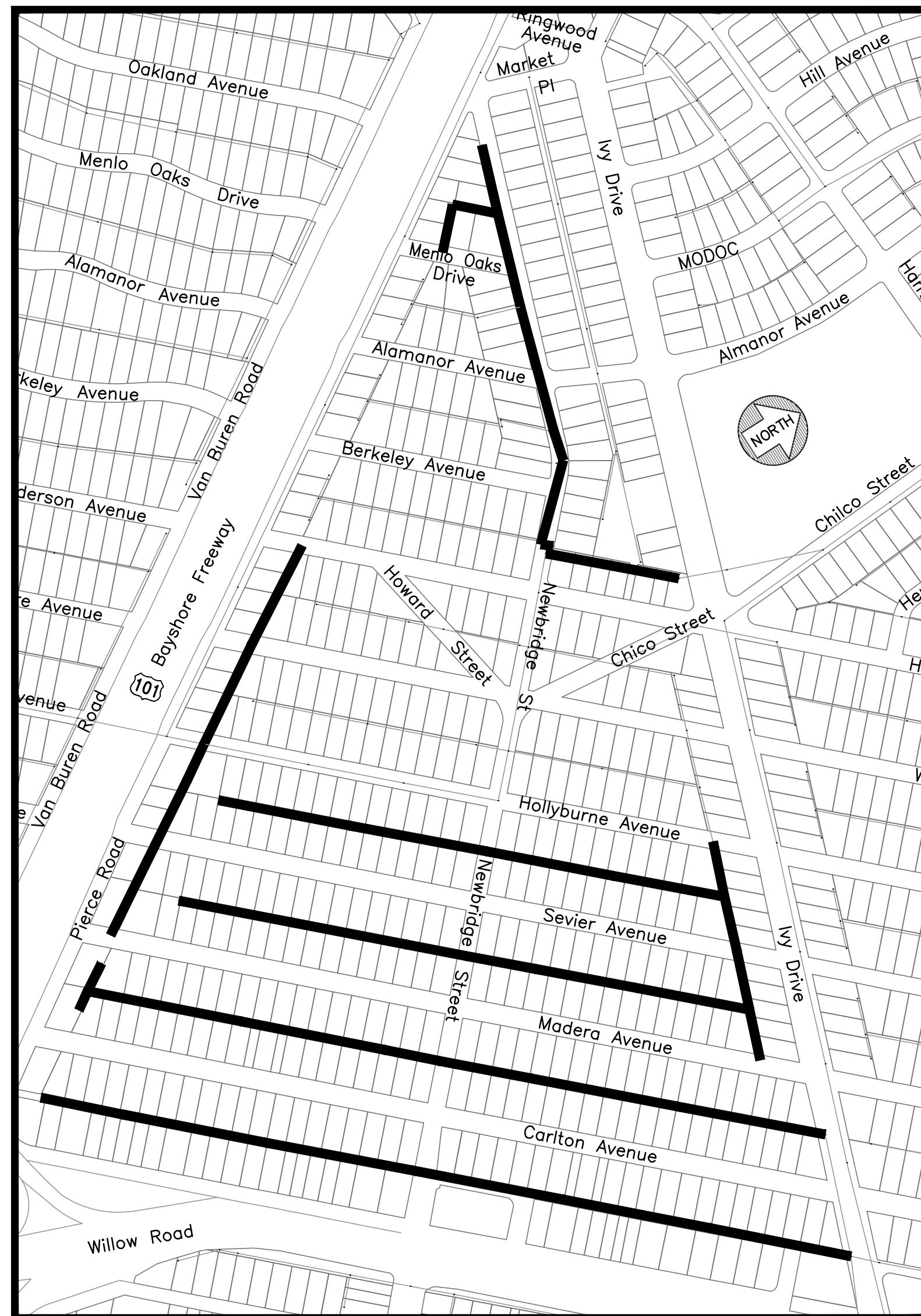
Construction contractor agrees that in accordance with generally accepted construction practices, construction contractor will be required to assume sole and complete responsibility for job site conditions during the course of construction of the project, including safety of all persons and property; 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



MENLO PARK VICINITY LOCATION NTS

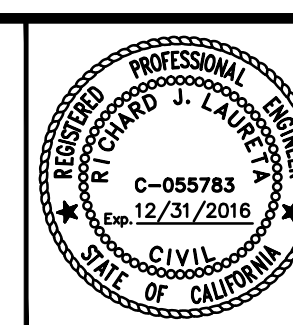
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BY	DATE	DESCRIPTION OF REVISIONS	APP'D

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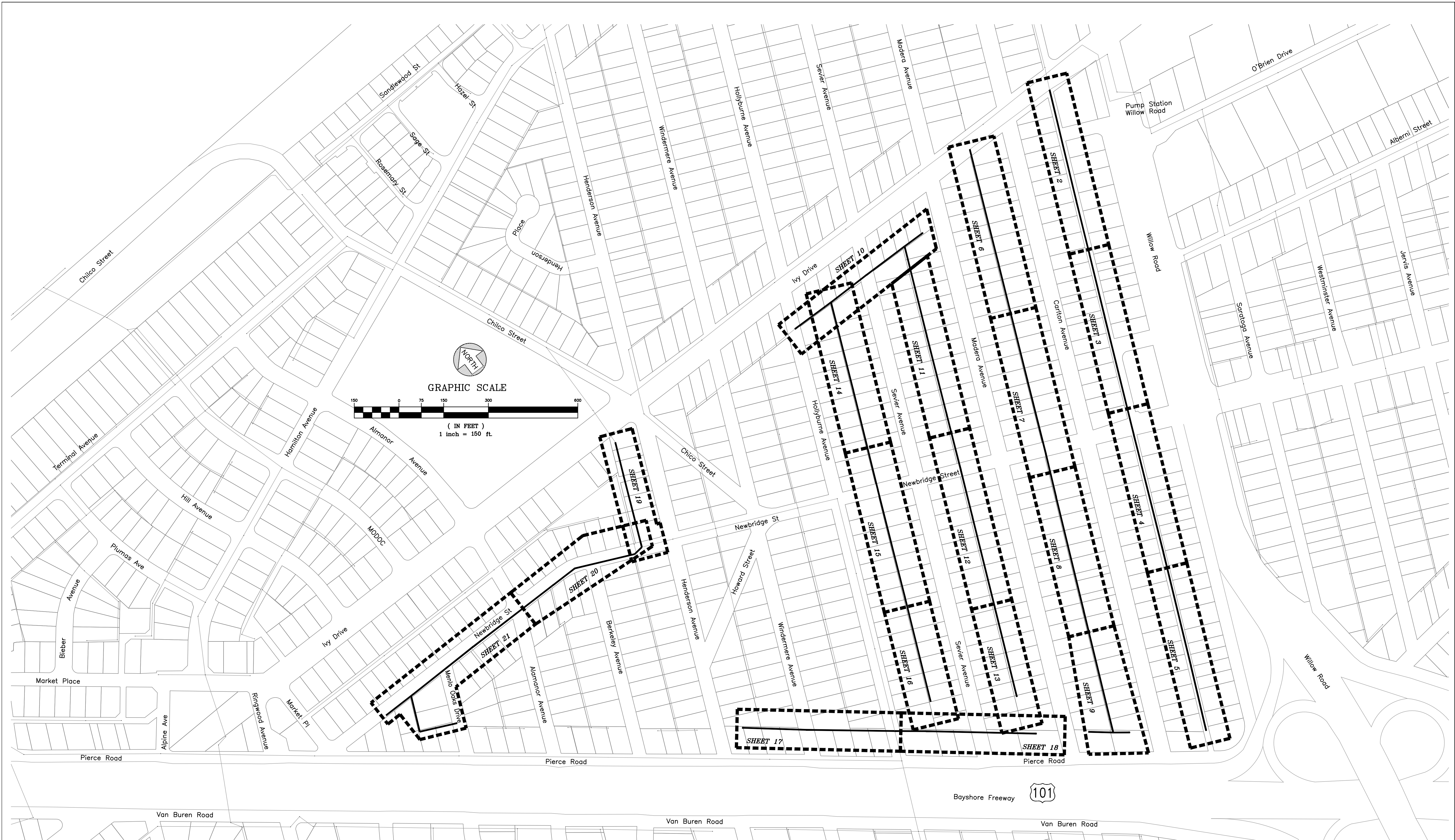
WEST BAY
SANITARY DISTRICT
SAN MATEO COUNTY

PROJECT No. 1758.3



BELLE HAVEN SEWER PROJECT
COVER SHEET
SAN MATEO COUNTY, CALIFORNIA

SHEET
0
JOB NO.
1064



CITY OF MENLO PARK

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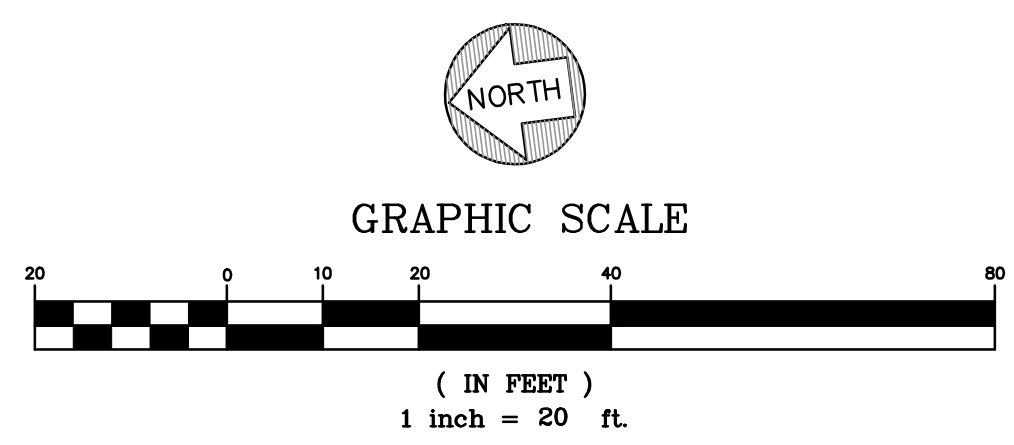
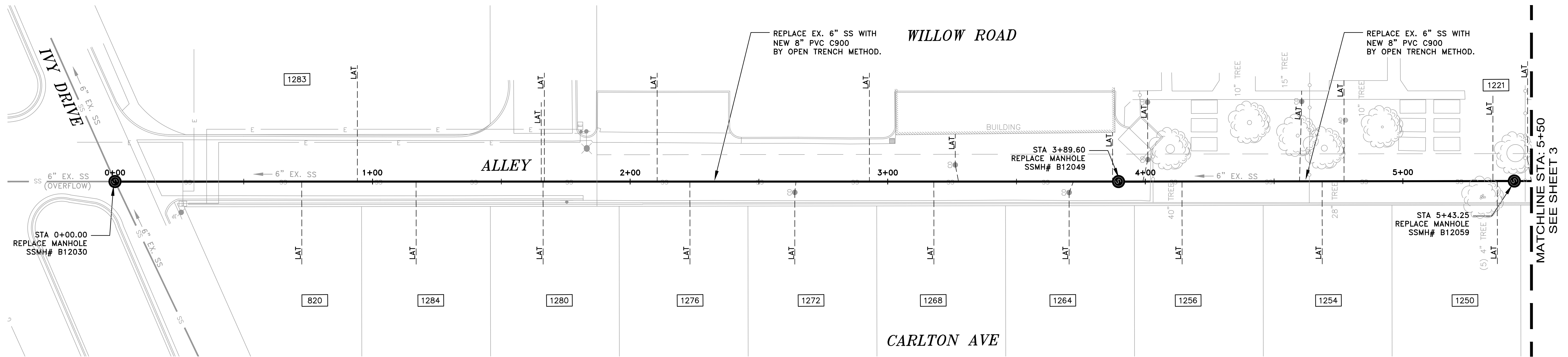
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WEST BAY
 SANITARY DISTRICT
 SAN MATEO COUNTY
 PROJECT No. 1758.3



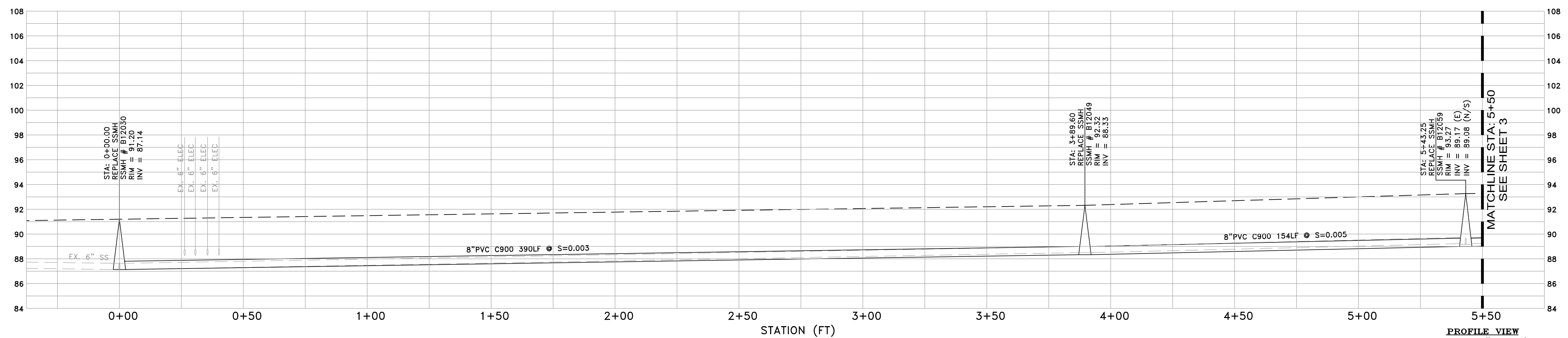
BELLE HAVEN SEWER PROJECT
INDEX MAP
SAN MATEO COUNTY, CALIFORNIA

SHEET
1
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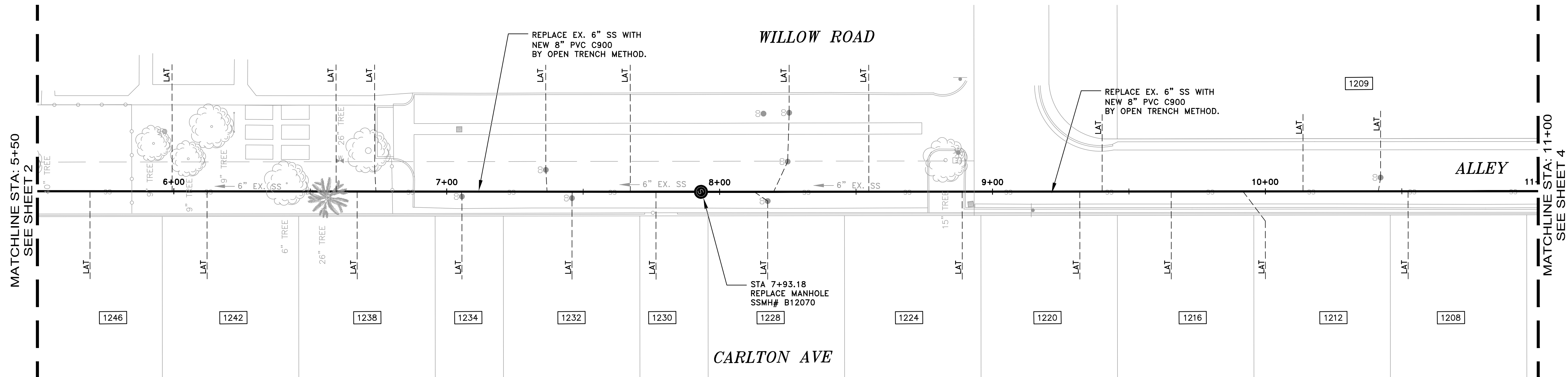
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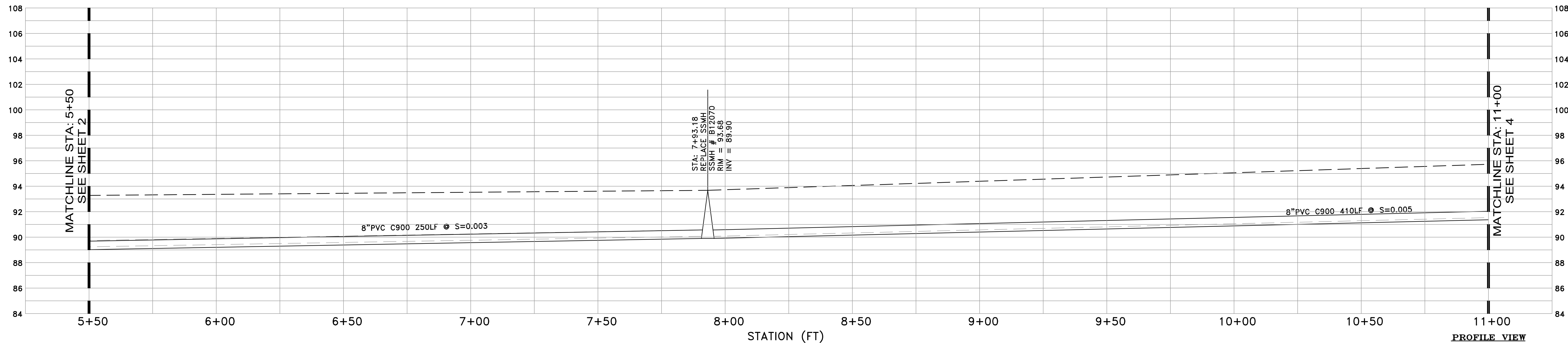
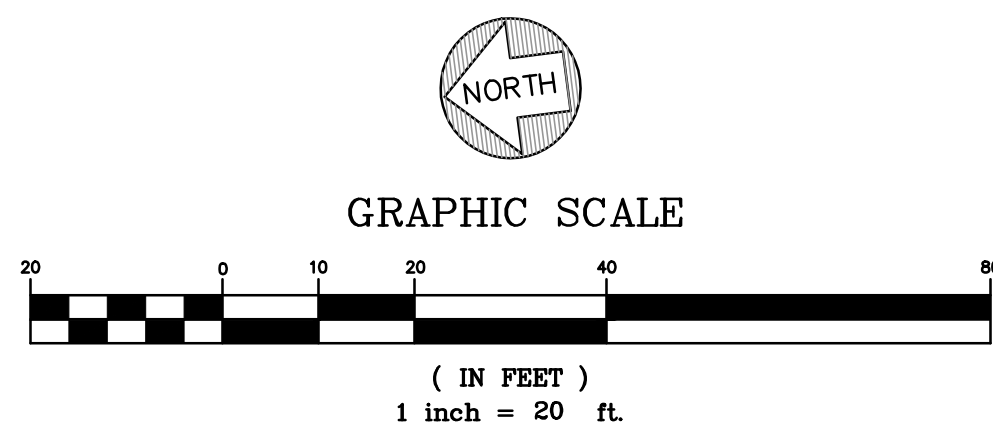
BELLE HAVEN SEWER PROJECT
ALLEY BETWEEN WILLOW RD AND CARLTON AVE
 MENLO PARK, CALIFORNIA

SHEET	2
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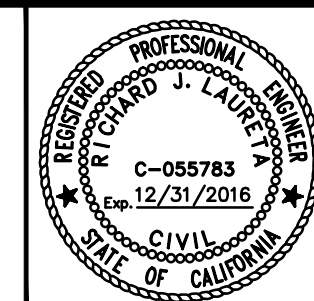
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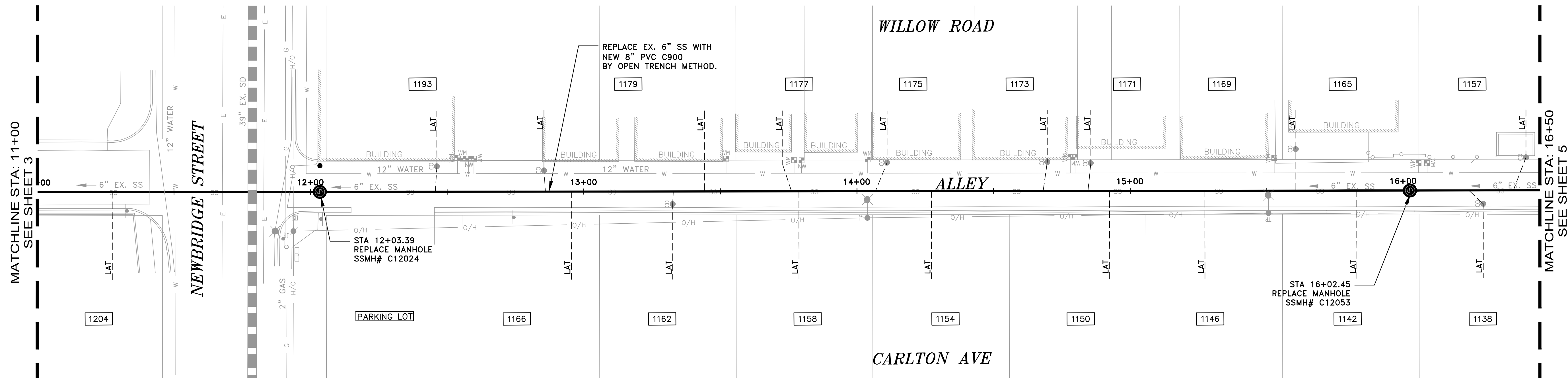
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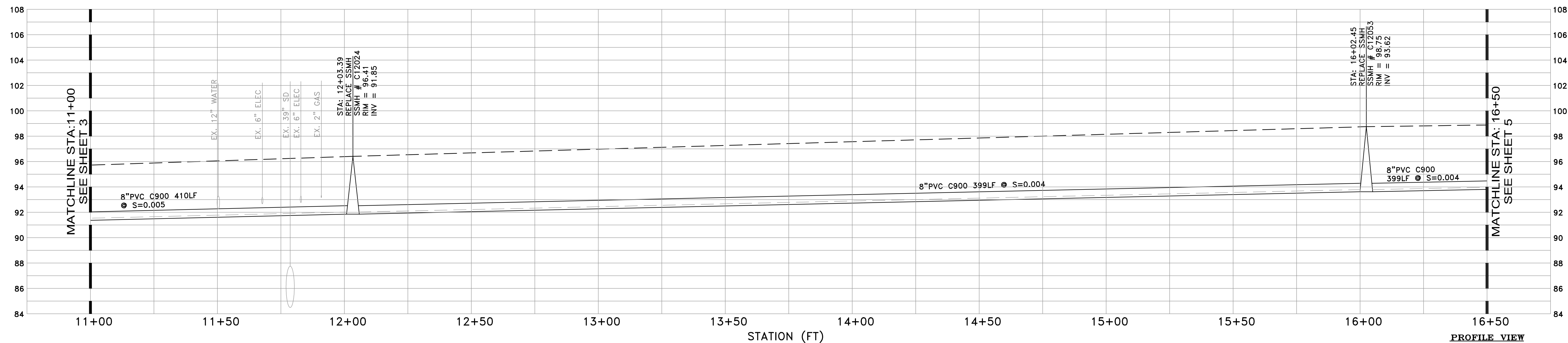
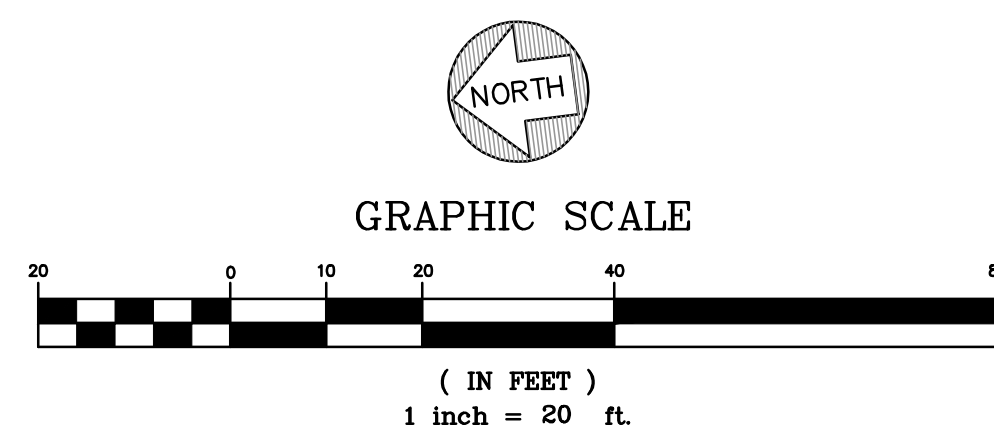
BELLE HAVEN SEWER PROJECT
ALLEY BETWEEN WILLOW RD AND CARLTON AVE
MENLO PARK, CALIFORNIA

SHEET
3
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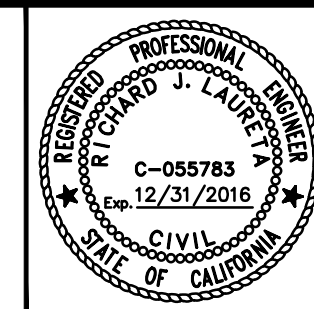
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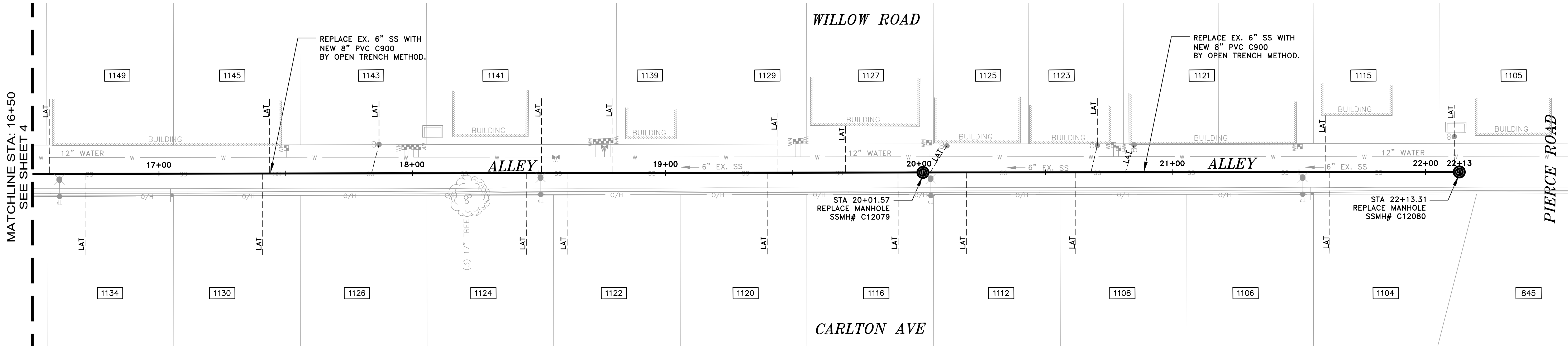
WEST BAY
 SANITARY DISTRICT
 SAN MATEO COUNTY

PROJECT No. 1758.3

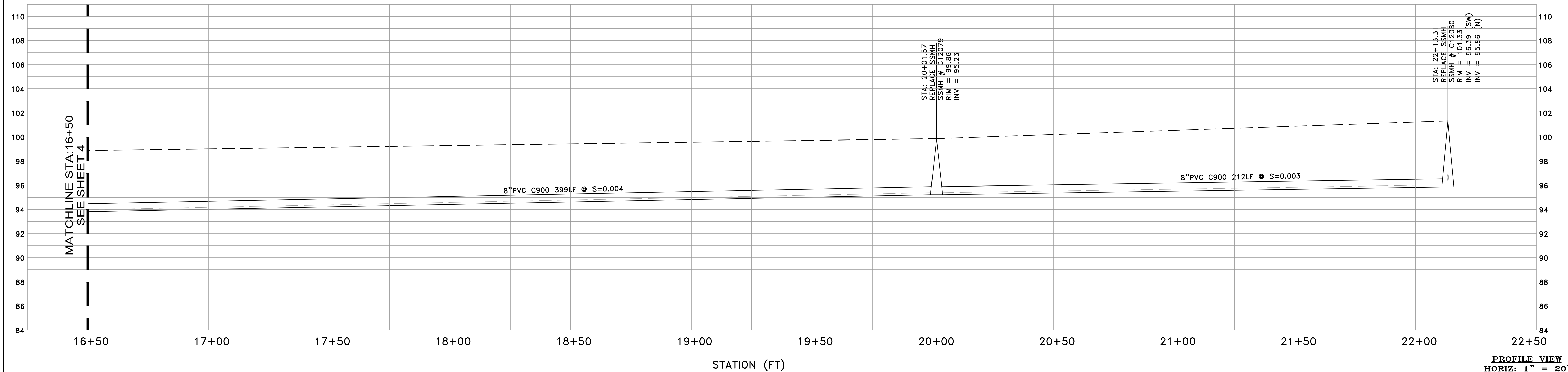
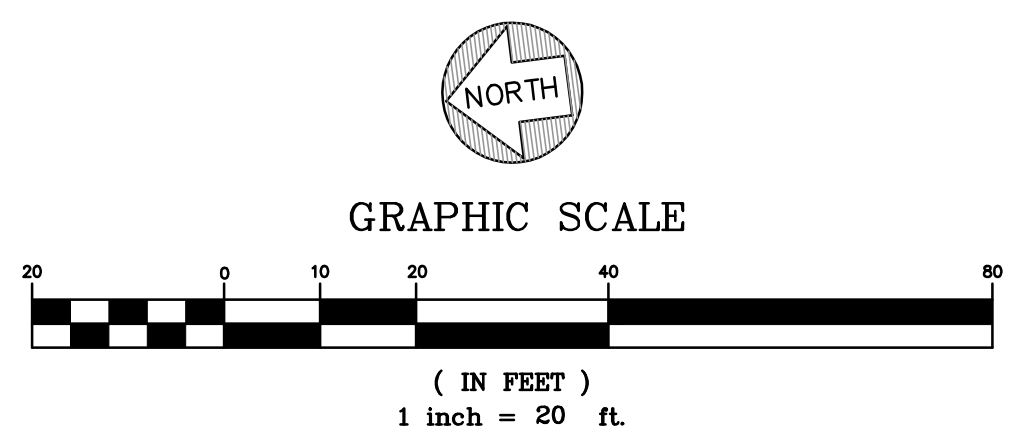


BELLE HAVEN SEWER PROJECT
ALLEY BETWEEN WILLOW RD AND CARLTON AVE
MENLO PARK, CALIFORNIA

SHEET
4
 JOB NO.
1064

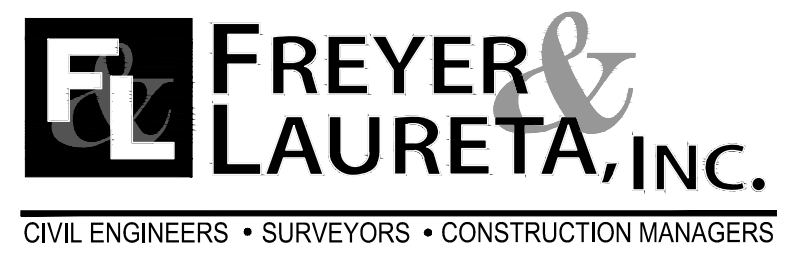


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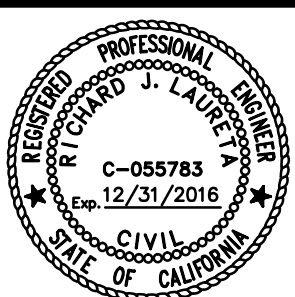
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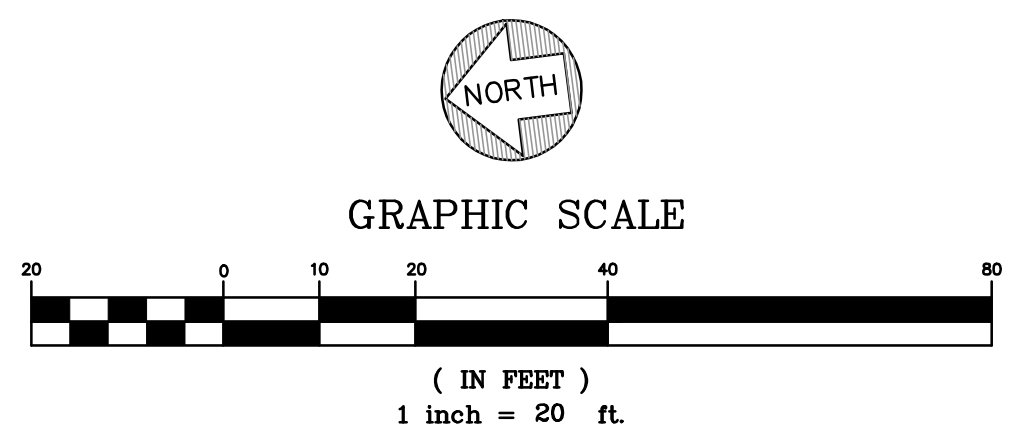
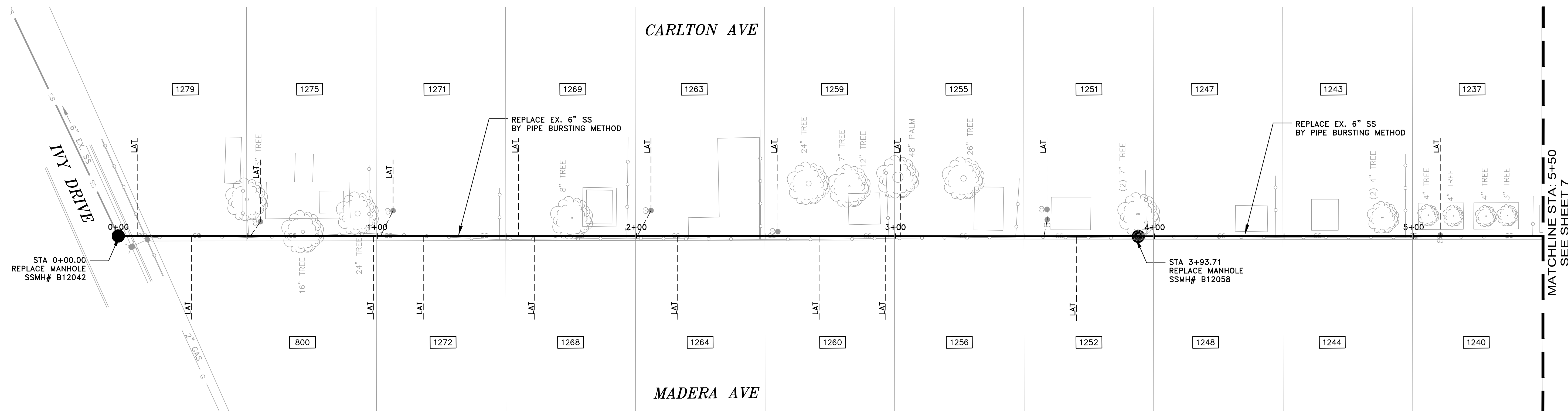
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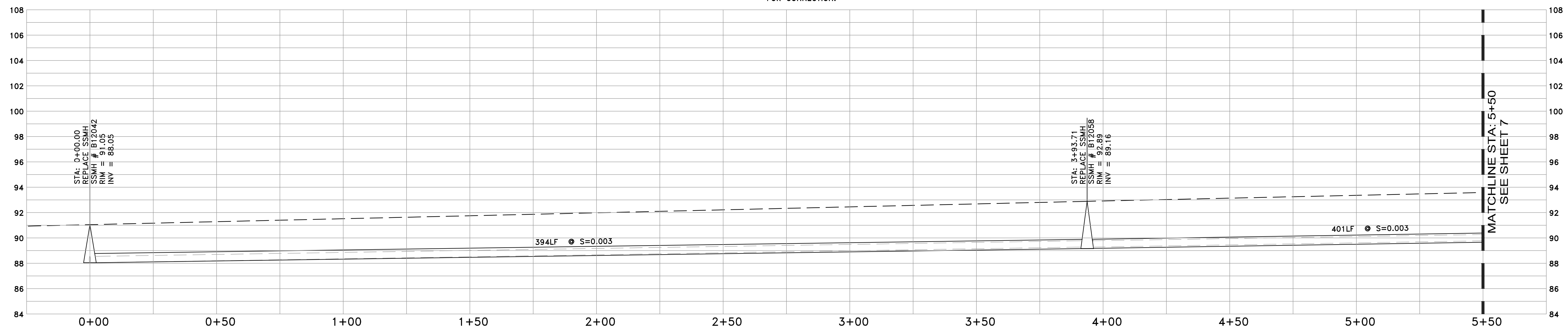


BELLE HAVEN SEWER PROJECT
ALLEY BETWEEN WILLOW RD AND CARLTON AVE
MENLO PARK, CALIFORNIA

SHEET
5
 JOB NO.
1064



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

DATE:	5/12/14	12/10/14	ISSUED FOR BID
SCALE:	AS NOTED		
DESIGNED:	RJL		
DRAWN:	JJF		
CHECKED:	RJL		
PROJ. ENGR:	RJL		
BY	DATE	DESCRIPTION OF REVISIONS	APP'D

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

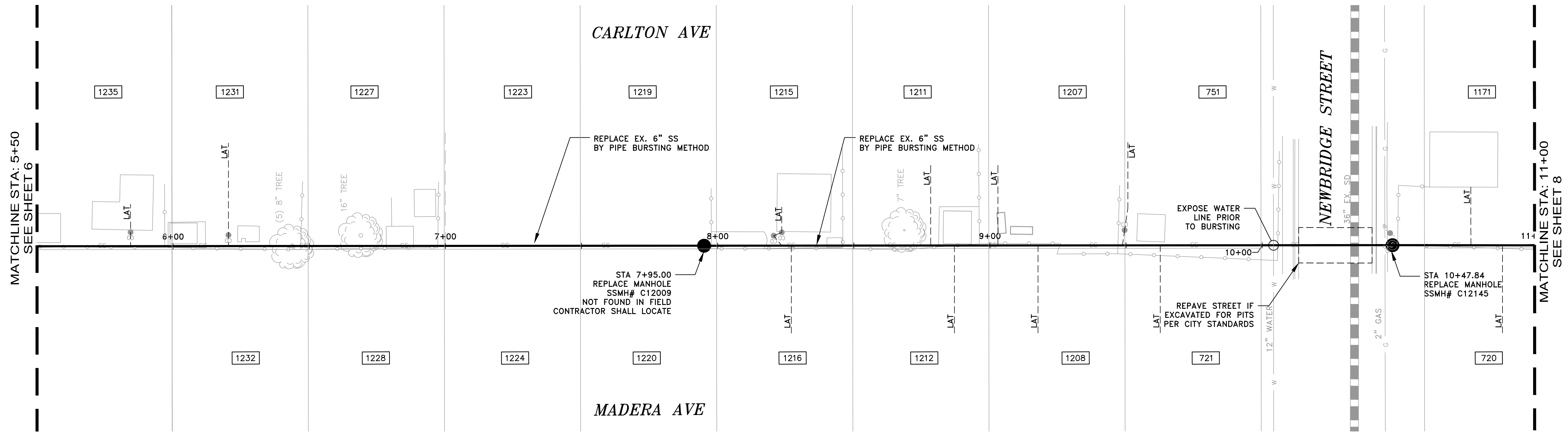
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WEST BAY
 SANITARY DISTRICT
 SAN MATEO COUNTY
 PROJECT No. 1758.3



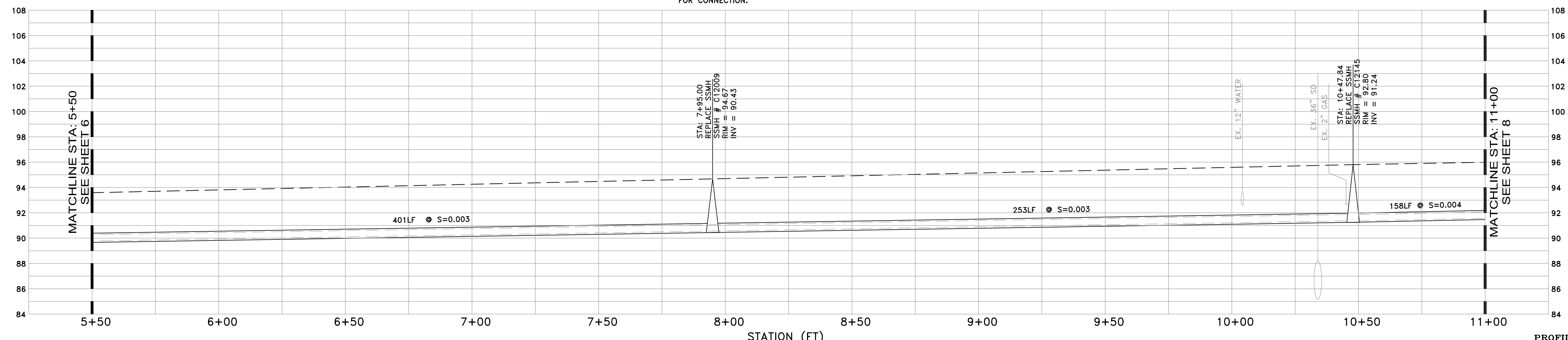
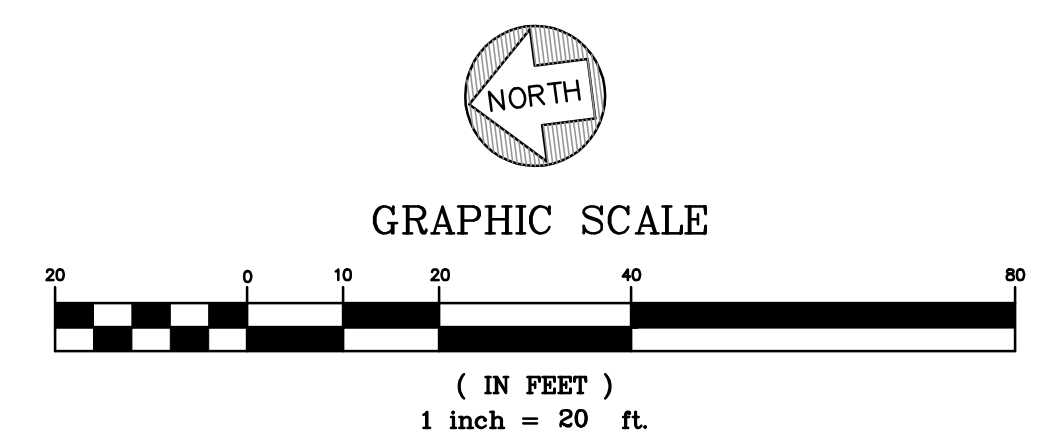
BELLE HAVEN SEWER PROJECT
EASEMENT BETWEEN CARLTON AND MADERA AVE
 MENLO PARK, CALIFORNIA

SHEET
6
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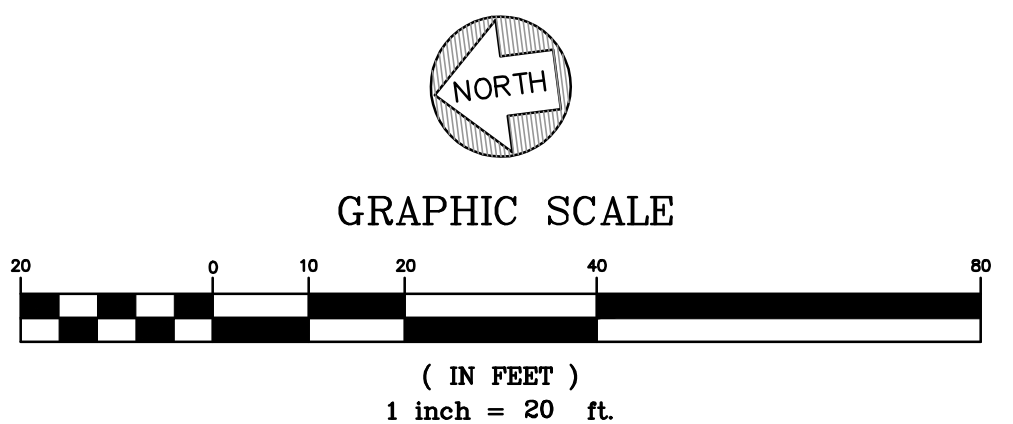
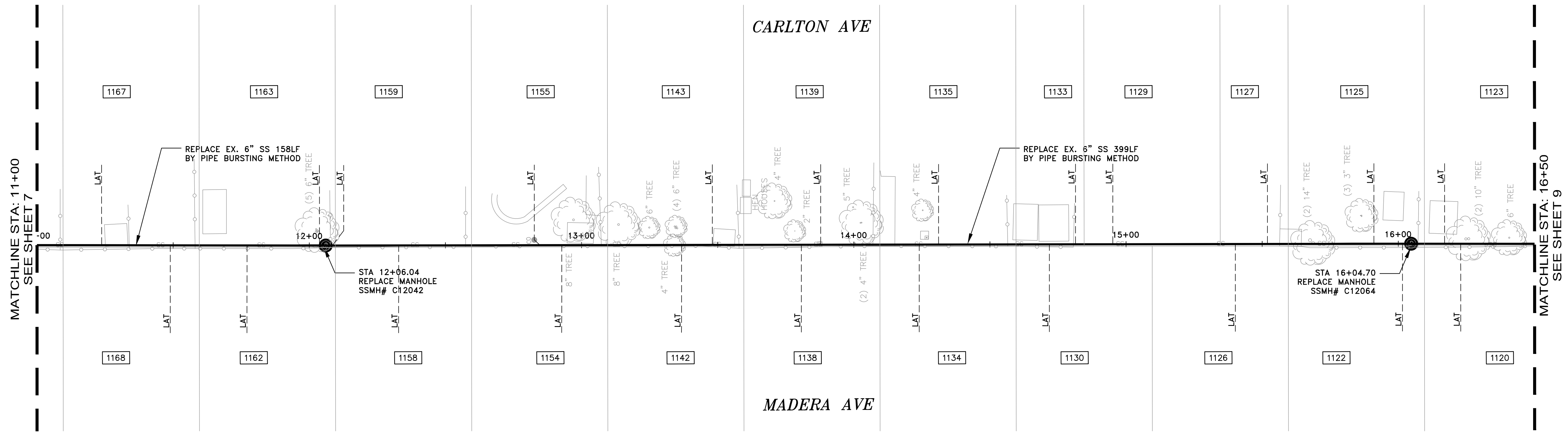
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 SANITARY DISTRICT
 SAN MATEO COUNTY
 PROJECT No. 1758.3



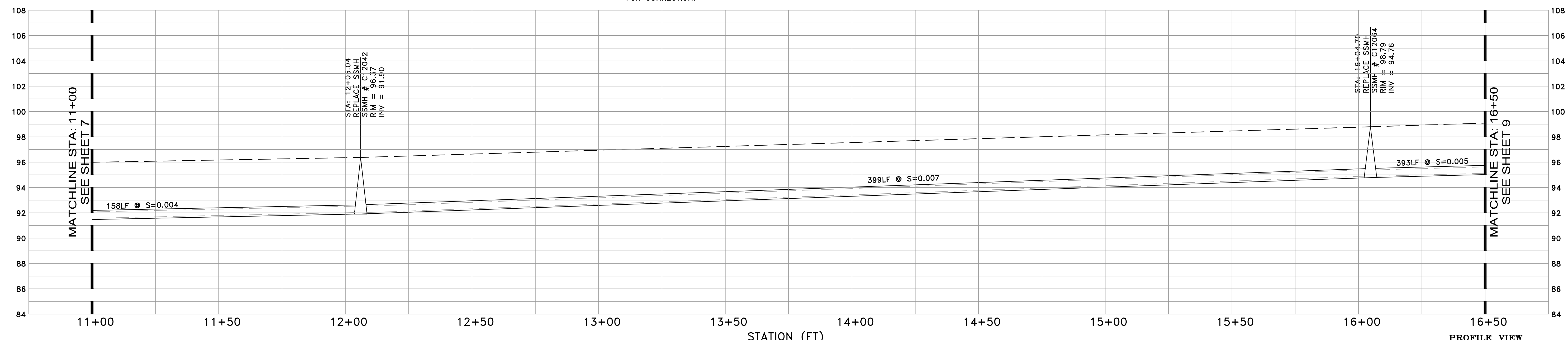
BELLE HAVEN SEWER PROJECT
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SHEET	7
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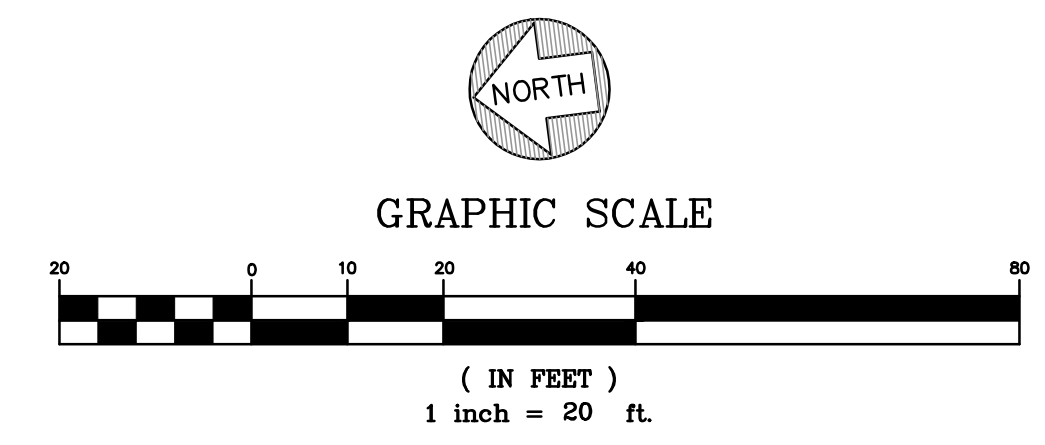
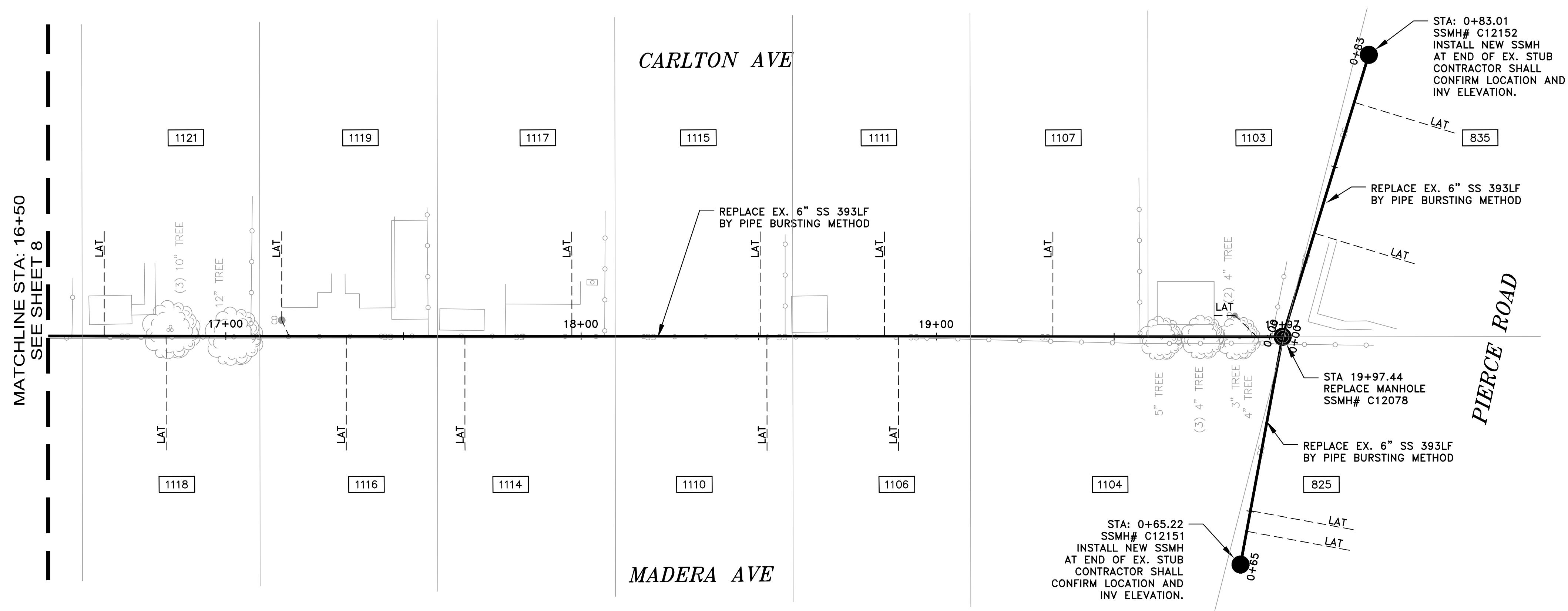
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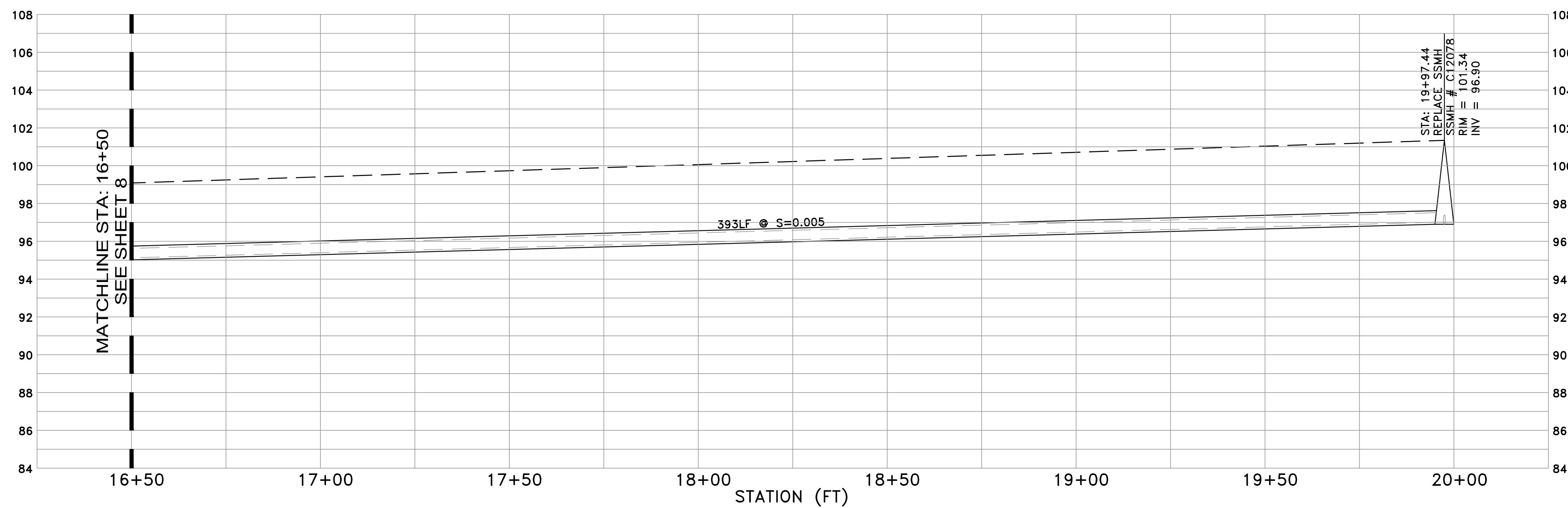


BELLE HAVEN SEWER PROJECT
EASEMENT BETWEEN CARLTON AND MADERA AVE
MENLO PARK, CALIFORNIA

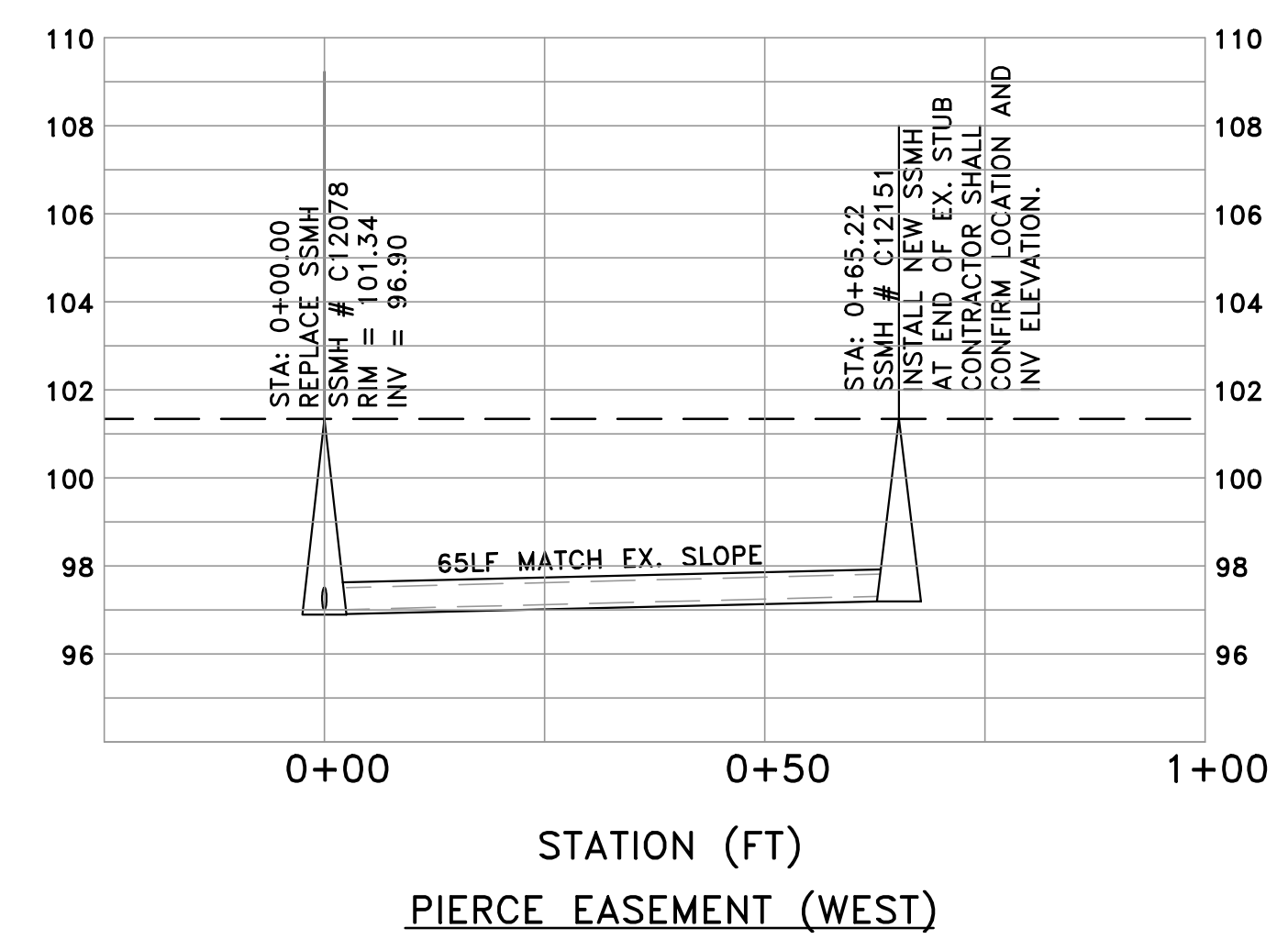
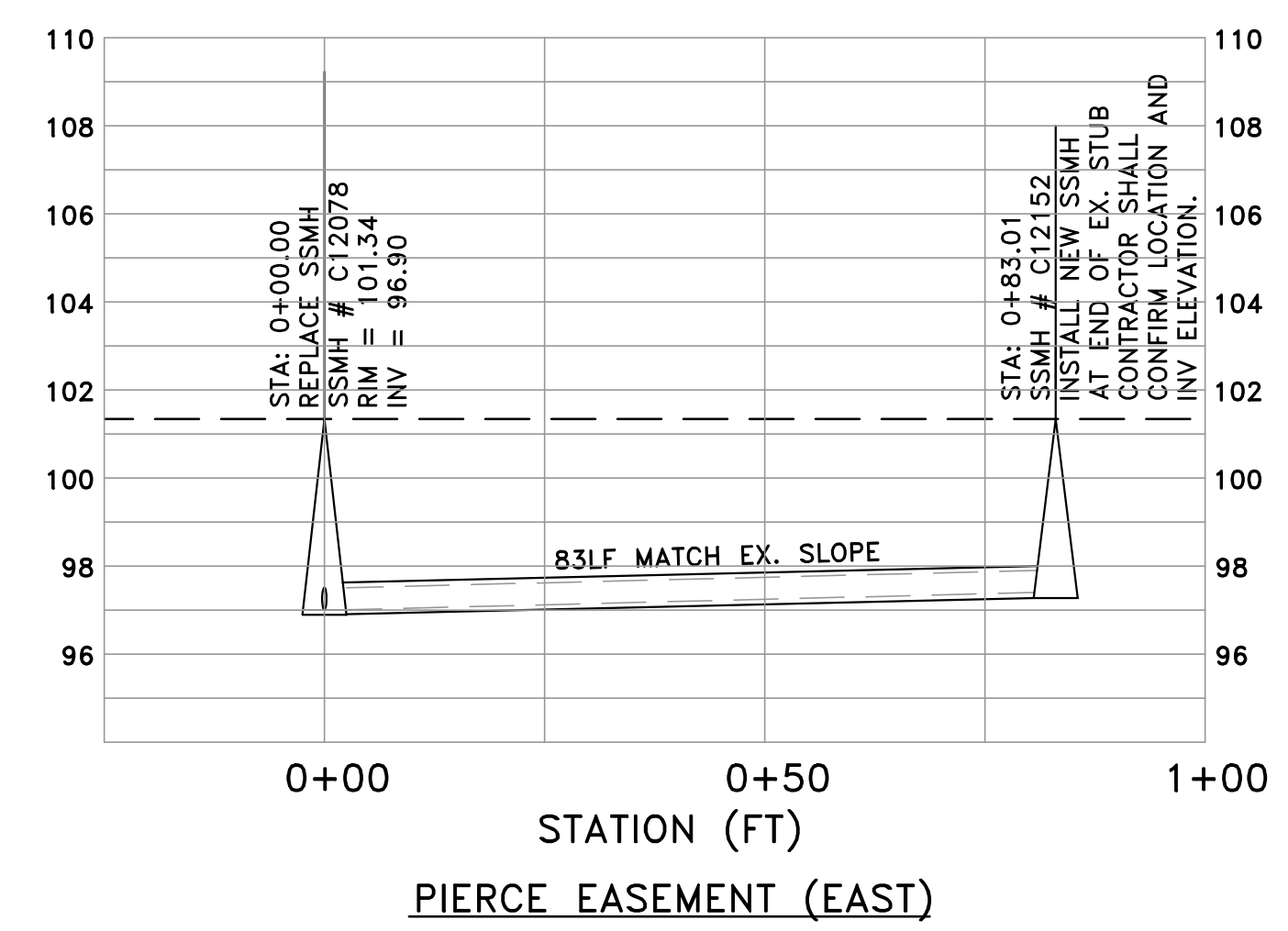
SHEET	8
JOB NO.	1064



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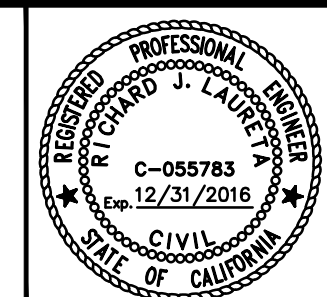


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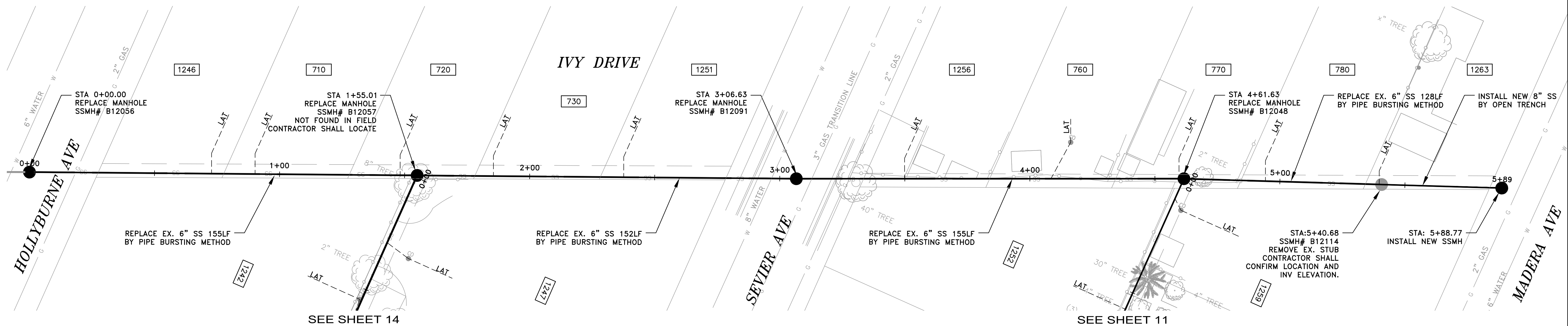
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 SAN MATEO COUNTY
 PROJECT No. 1758.3



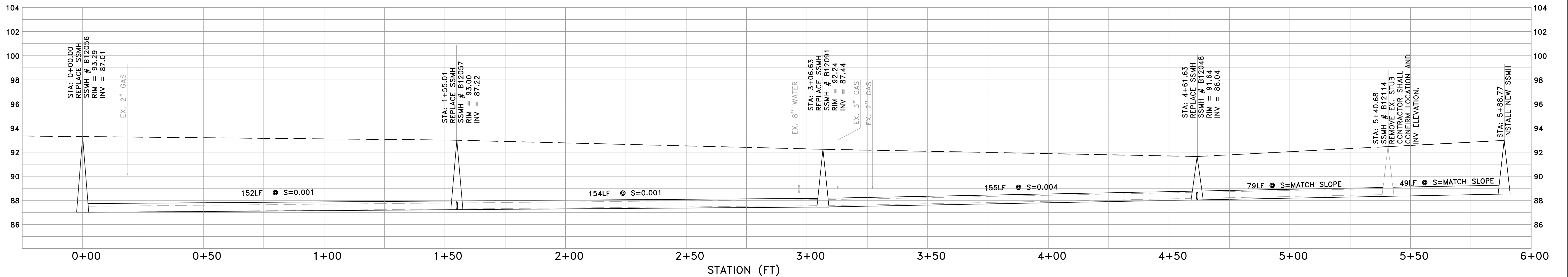
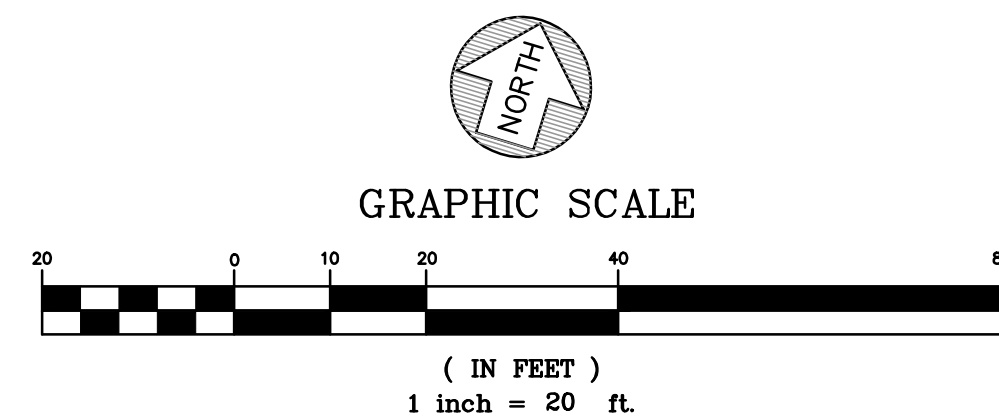
BELLE HAVEN SEWER PROJECT
EASEMENT BETWEEN CARLTON AND MADERA AVE
 MENLO PARK, CALIFORNIA

SHEET
9
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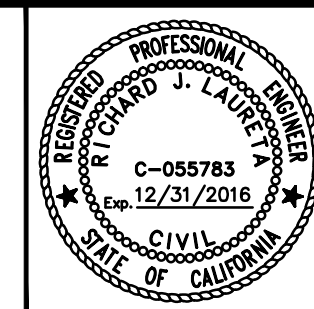
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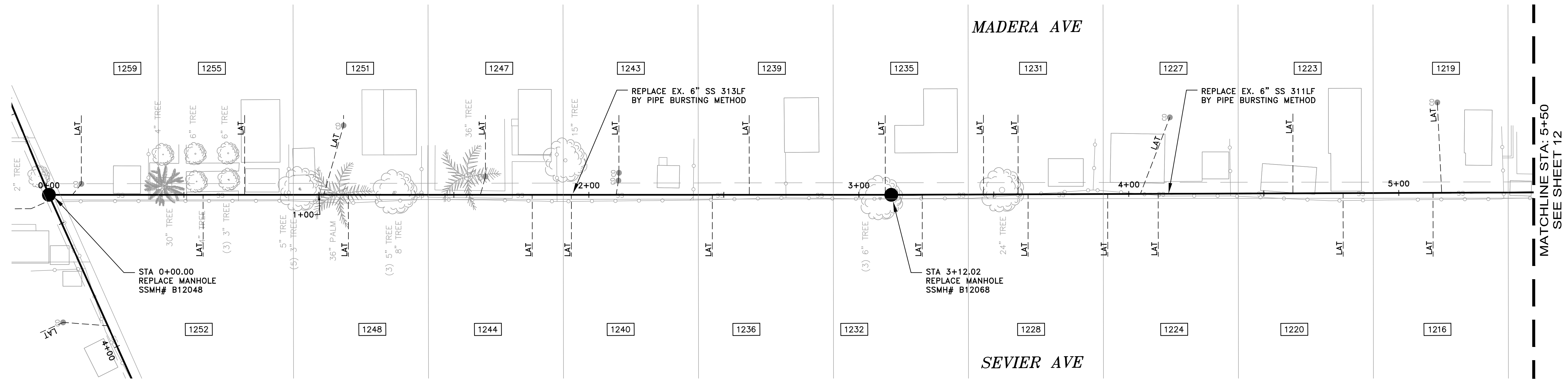
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 SAN MATEO COUNTY
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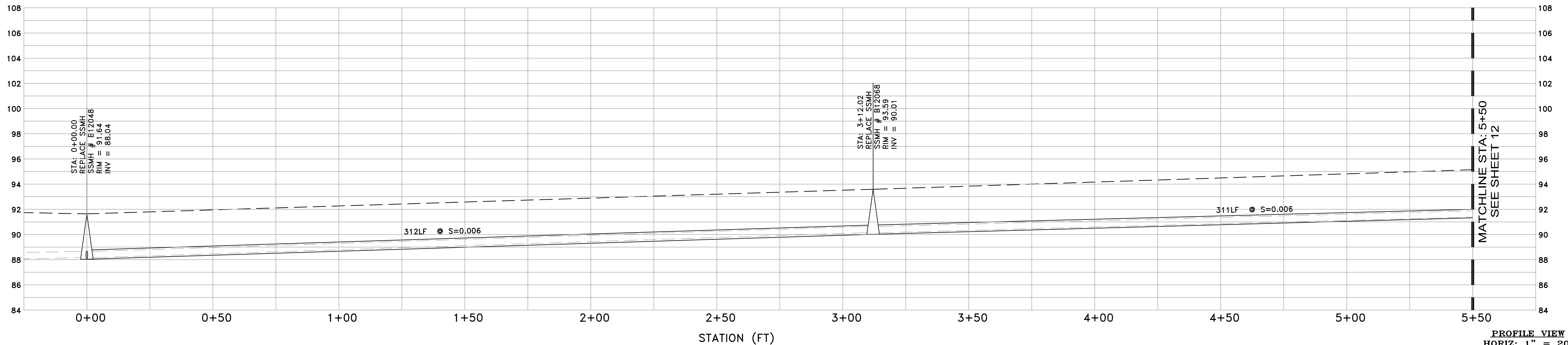
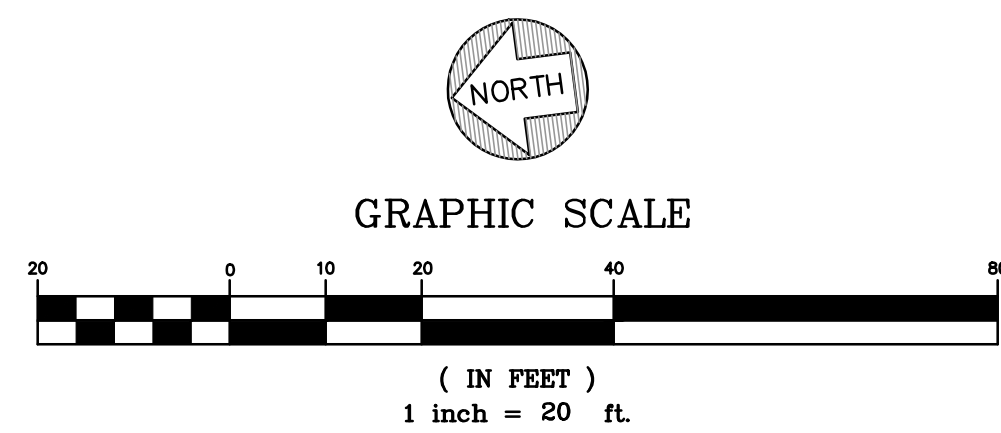


BELLE HAVEN SEWER PROJECT
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SHEET
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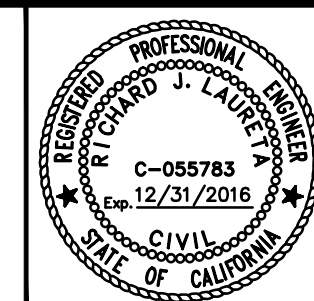
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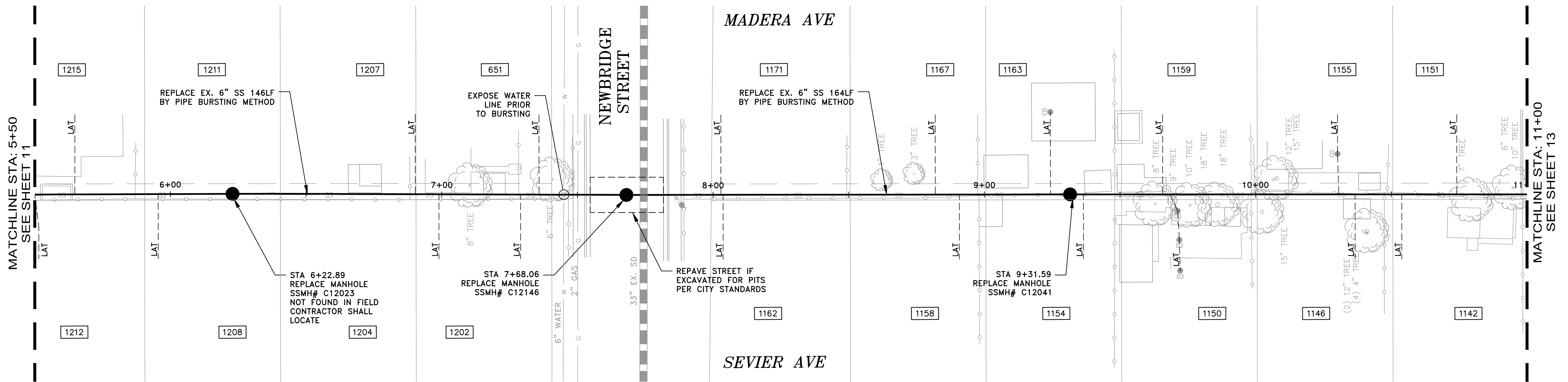
WEST BAY
 SANITARY DISTRICT
 SAN MATEO COUNTY

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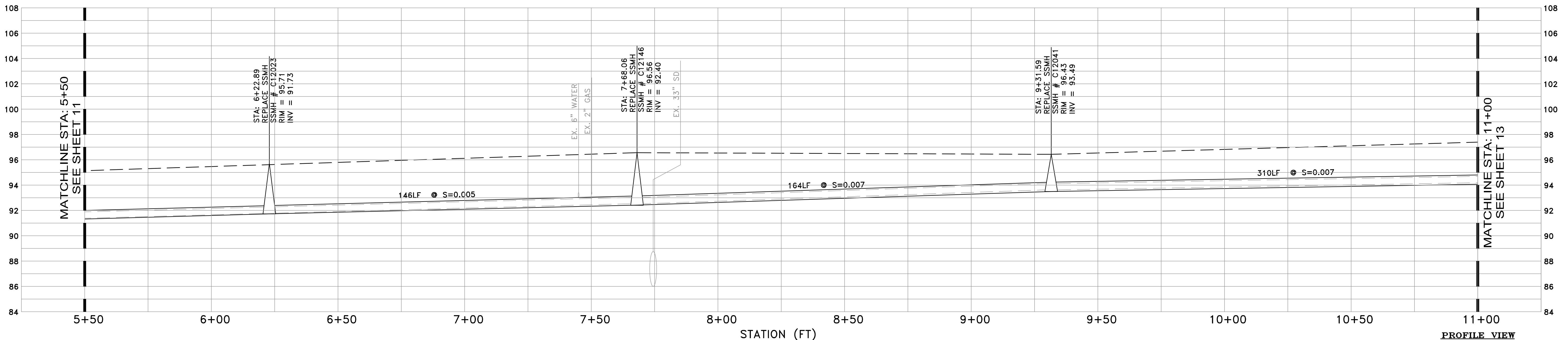
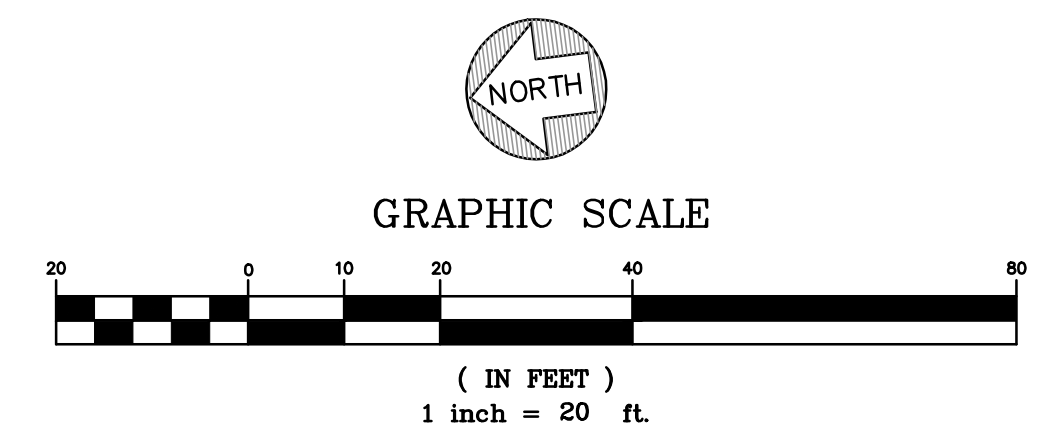
BELLE HAVEN SEWER PROJECT
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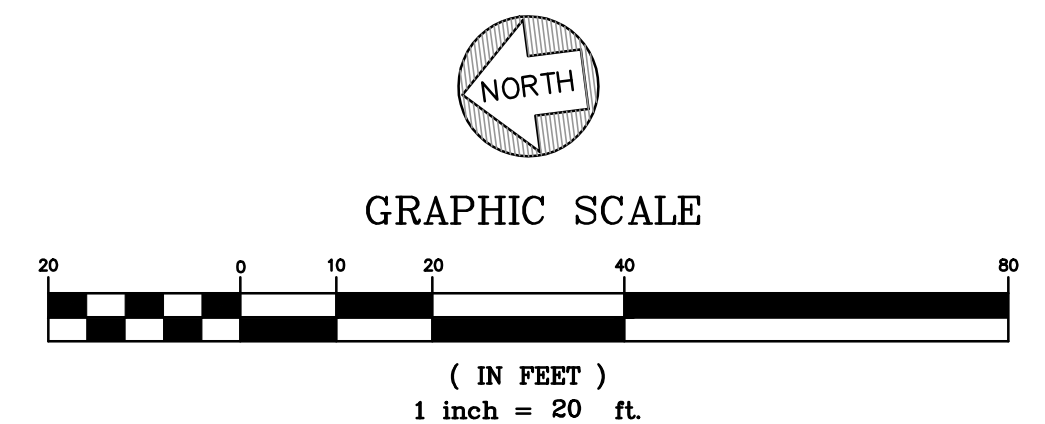
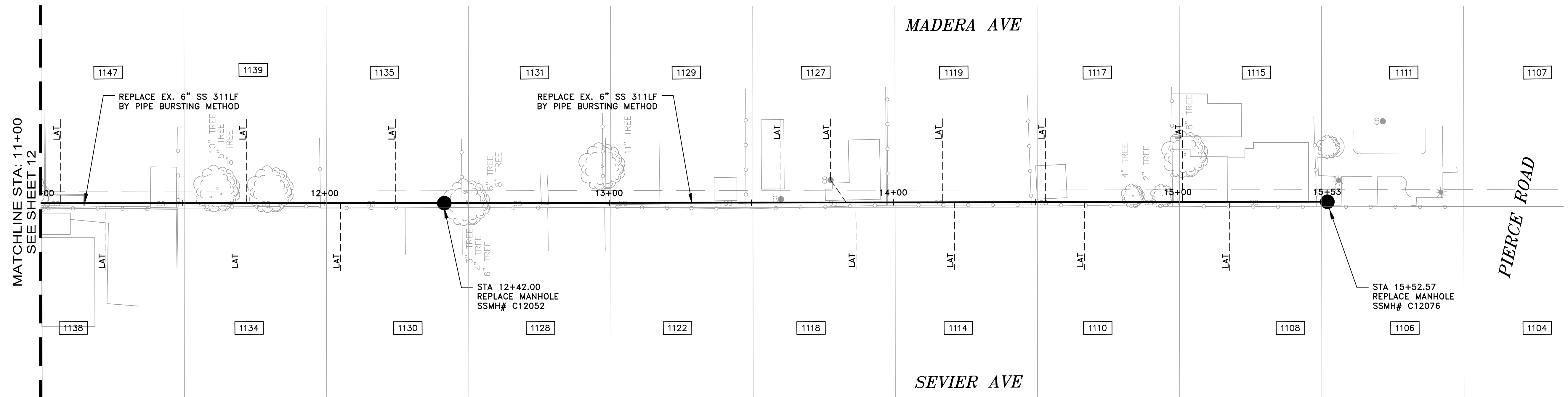
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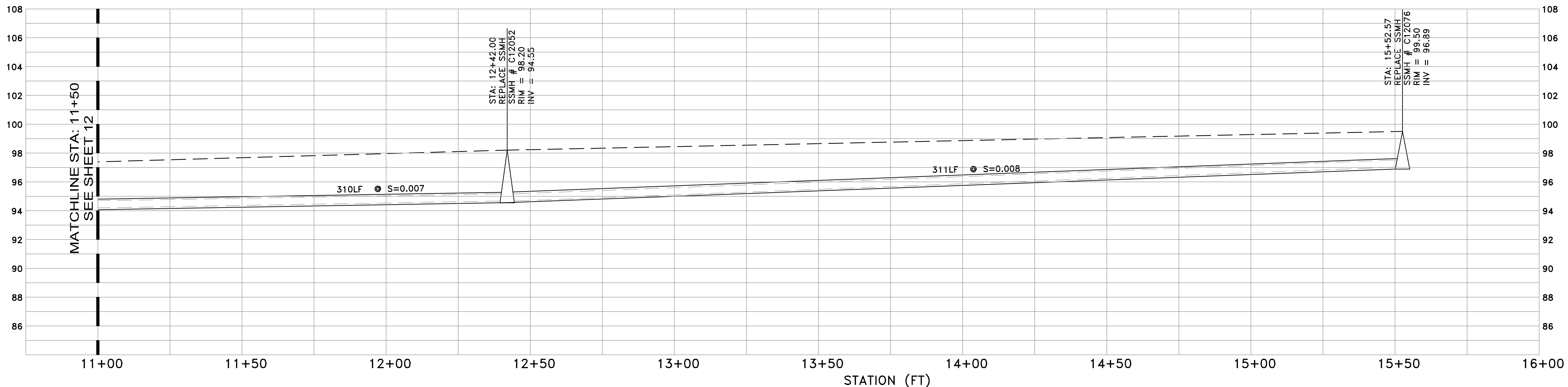


BELLE HAVEN SEWER PROJECT
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SHEET	12
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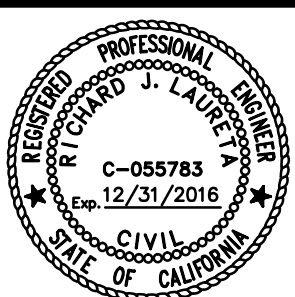
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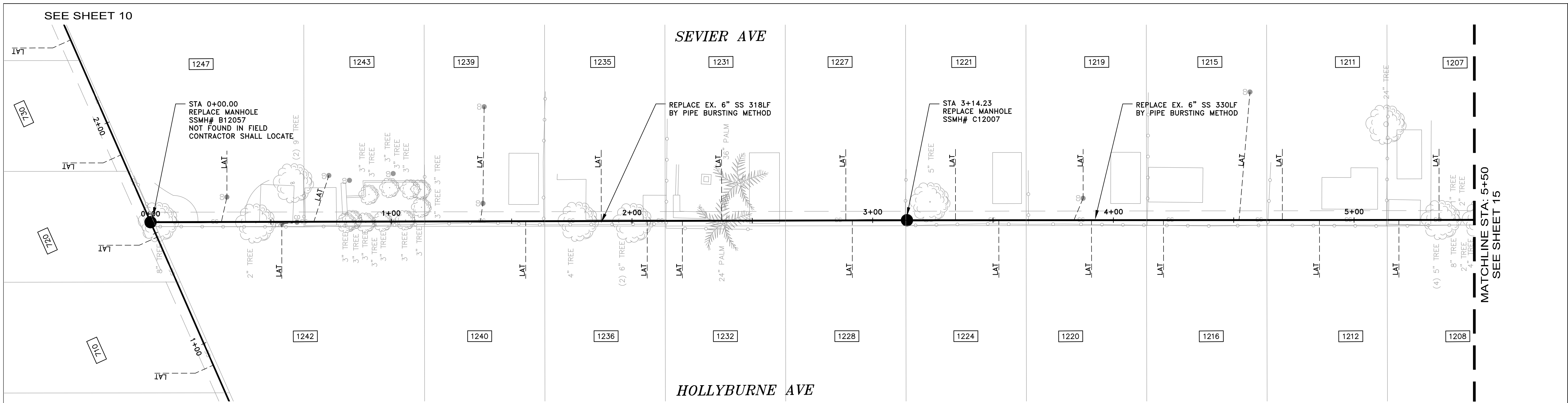
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SHEET	13
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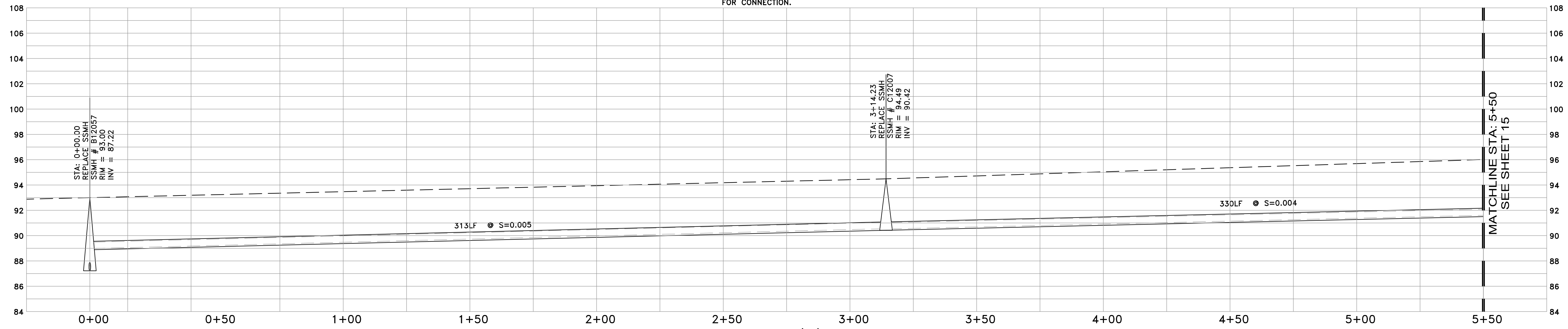
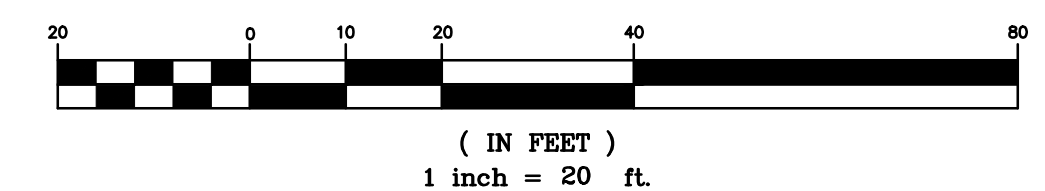


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GRAPHIC SCALE



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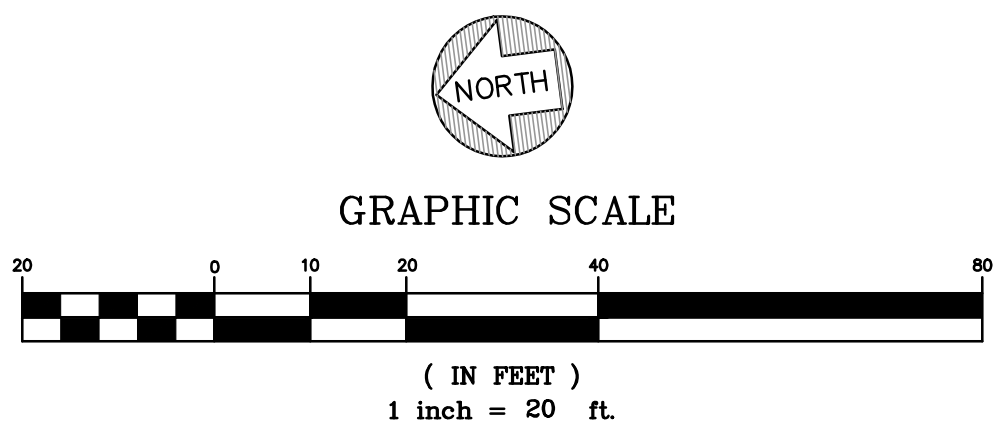
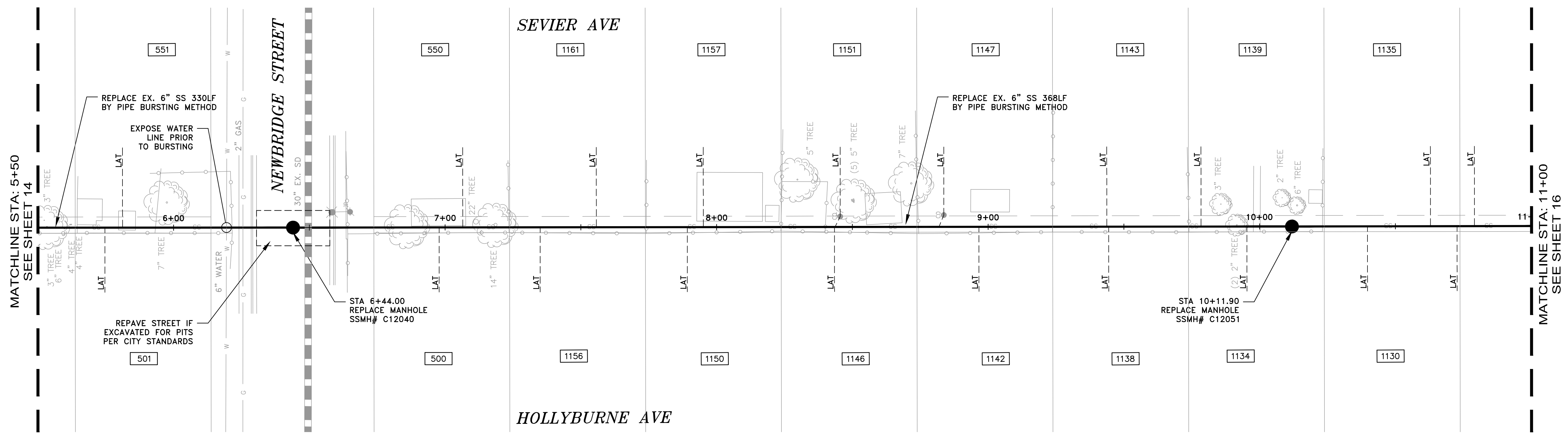
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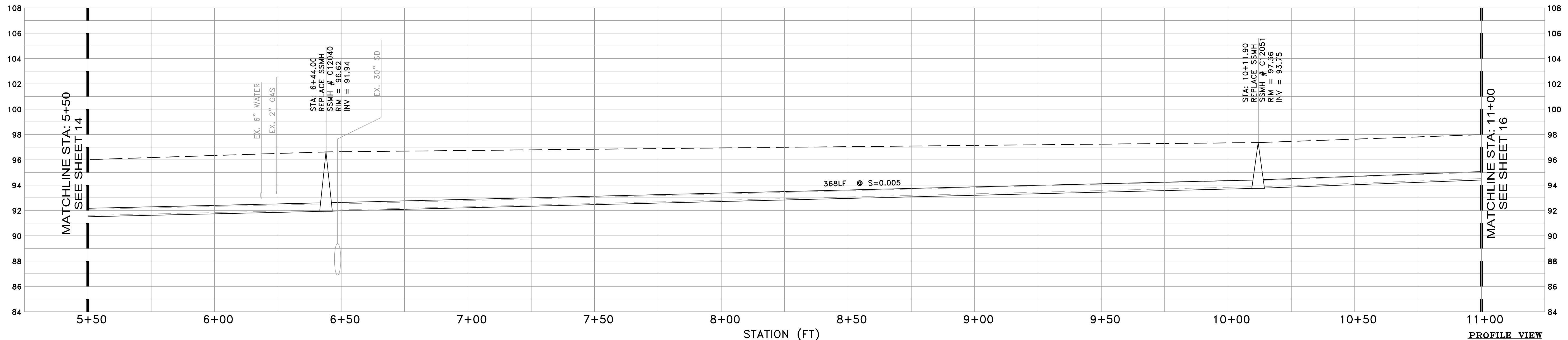


BELLE HAVEN SEWER PROJECT
EASEMENT BETWEEN SEVIER AND HOLLYBURNE AVE
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SHEET
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PROFILE VIEW
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DATE:	5/12/14	12/10/14	ISSUED FOR BID
SCALE:	AS NOTED		
DESIGNED:	RJL		
DRAWN:	JJF		
CHECKED:	RJL		
PROJ. ENGR:	RJL		
BY	DATE	DESCRIPTION OF REVISIONS	APP'D

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

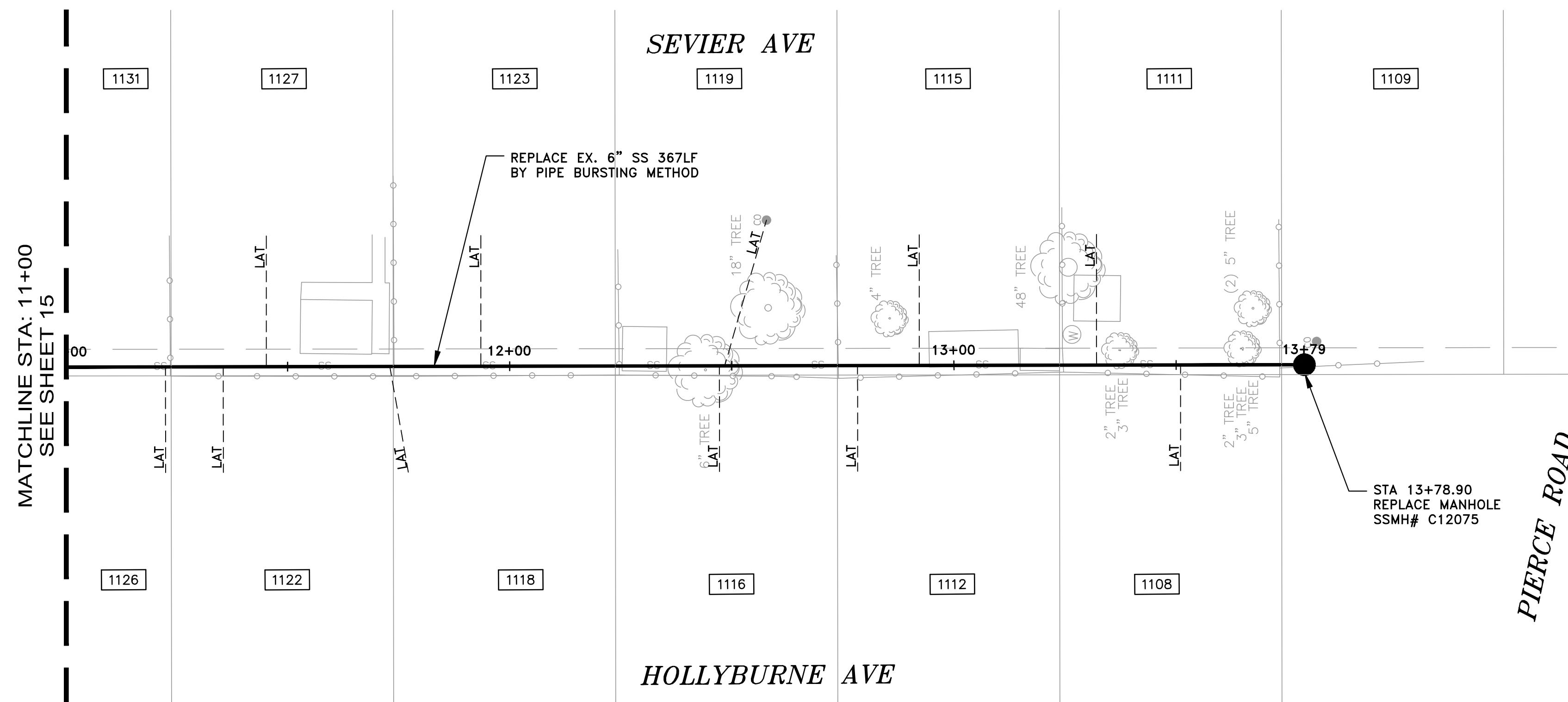
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WEST BAY
 SANITARY DISTRICT
 SAN MATEO COUNTY
 PROJECT No. 1758.3



BELLE HAVEN SEWER PROJECT
EASEMENT BETWEEN SEVIER AND HOLLYBURNE AVE
 MENLO PARK, CALIFORNIA

SHEET	15
JOB NO.	1064



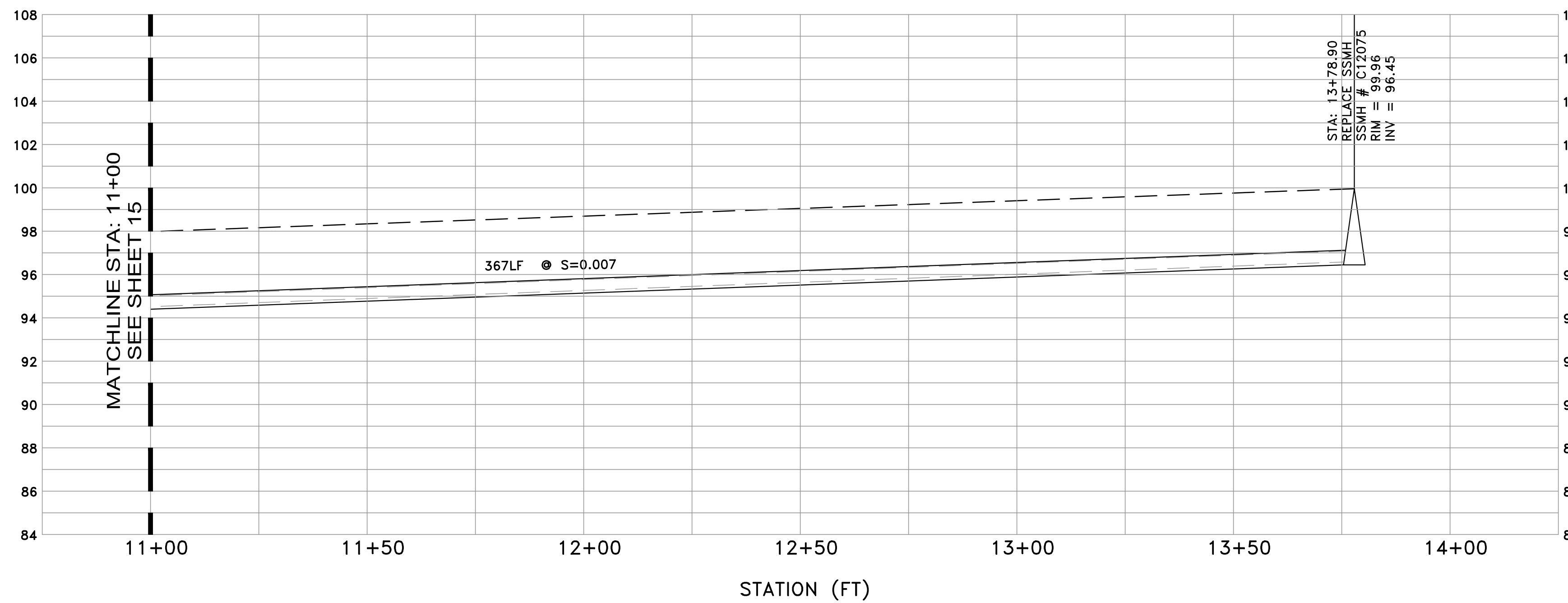
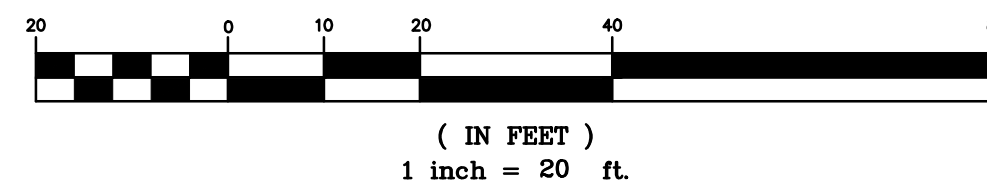
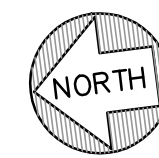
MATCHLINE STA: 11+00
SEE SHEET 15

STA 13+78.90
REPLACE MANHOLE
SSMH# C12075

PIERCE ROAD

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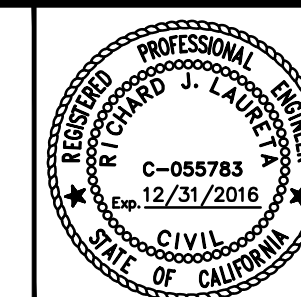
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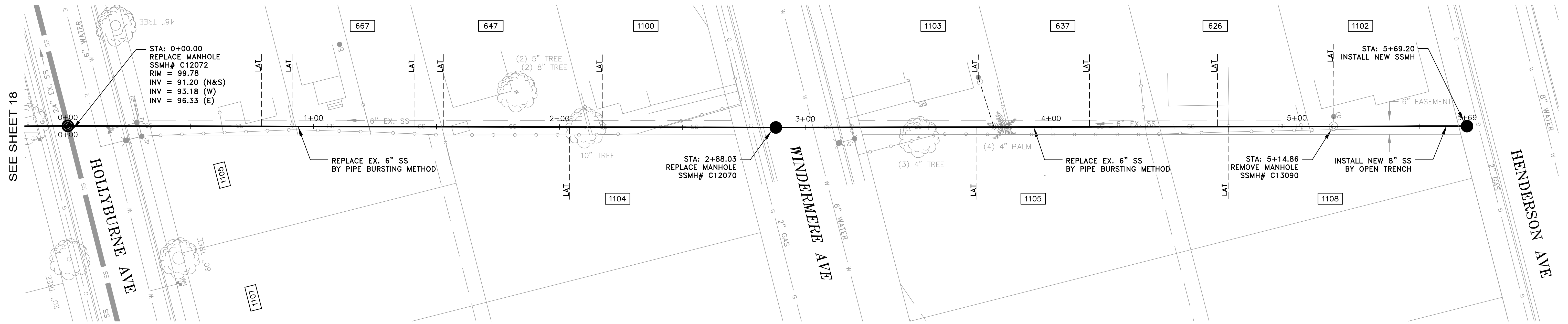
WEST BAY
SANITARY DISTRICT
SAN MATEO COUNTY

PROJECT No. 1758.3

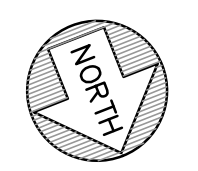


BELLE HAVEN SEWER PROJECT
EASEMENT BETWEEN SEVIER AND HOLLYBURNE AVE
MENLO PARK, CALIFORNIA

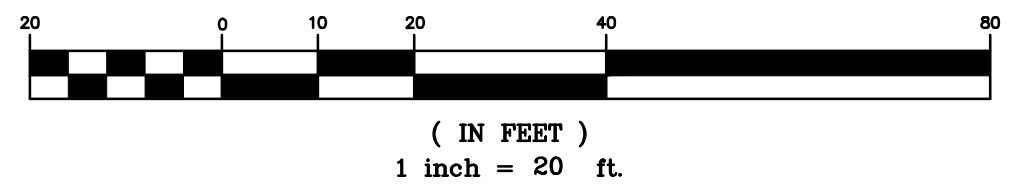
SHEET
16
JOB NO.
1064



SEE SHEET 18

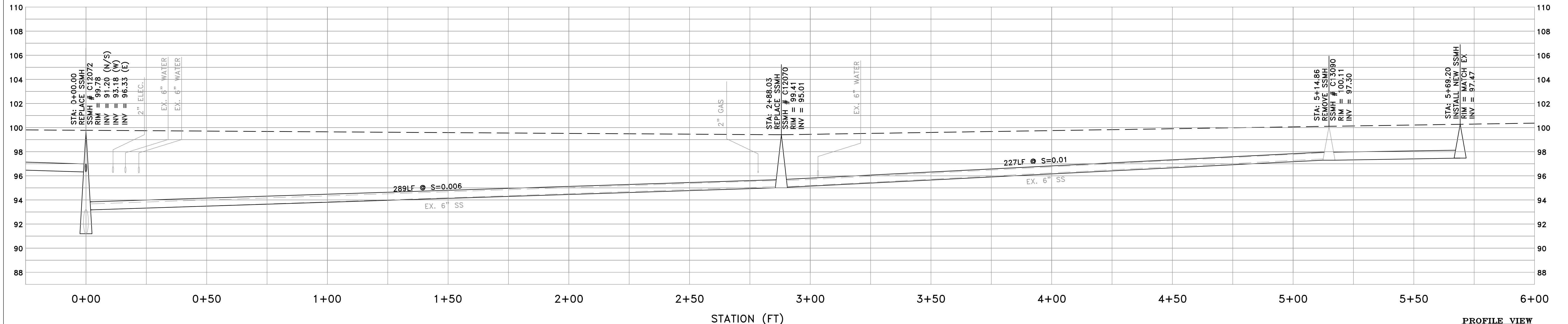


GRAPHIC SCALE



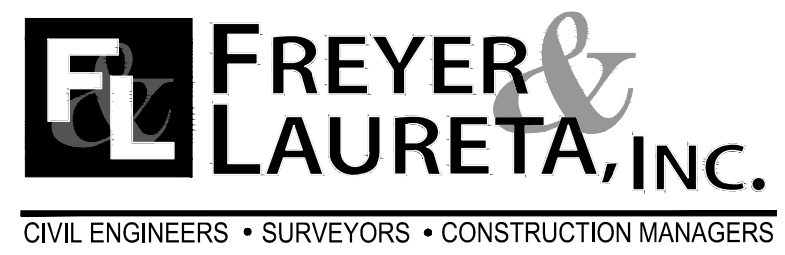
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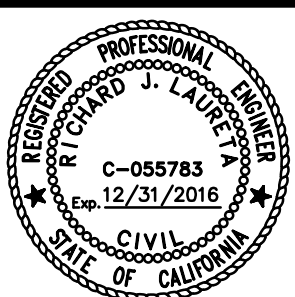
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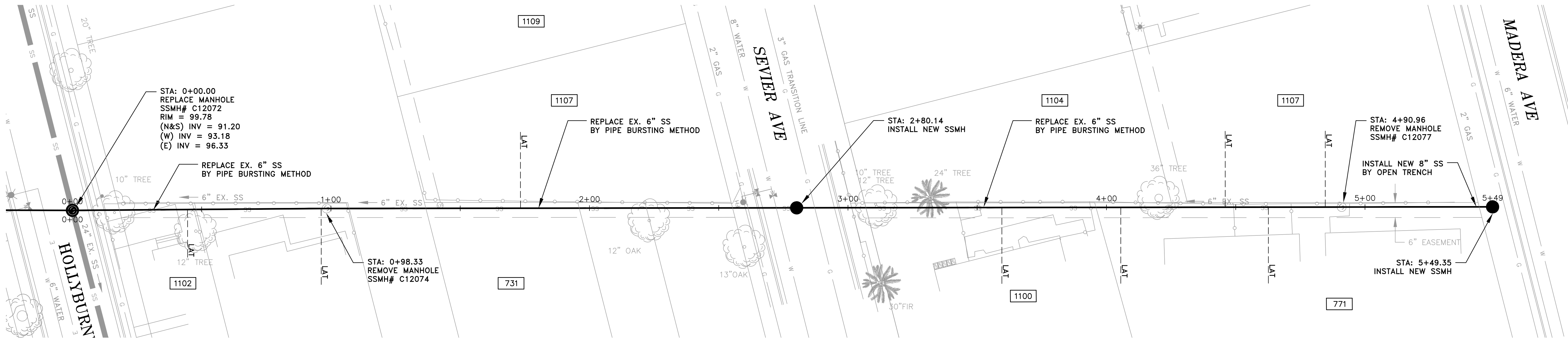
WEST BAY
 SANITARY DISTRICT
 SAN MATEO COUNTY
 PROJECT No. 1758.3



BELLE HAVEN SEWER PROJECT
PIERCE EASEMENT (WEST)
MENLO PARK, CALIFORNIA

SHEET
17
 JOB NO.
1064

SEE SHEET 17

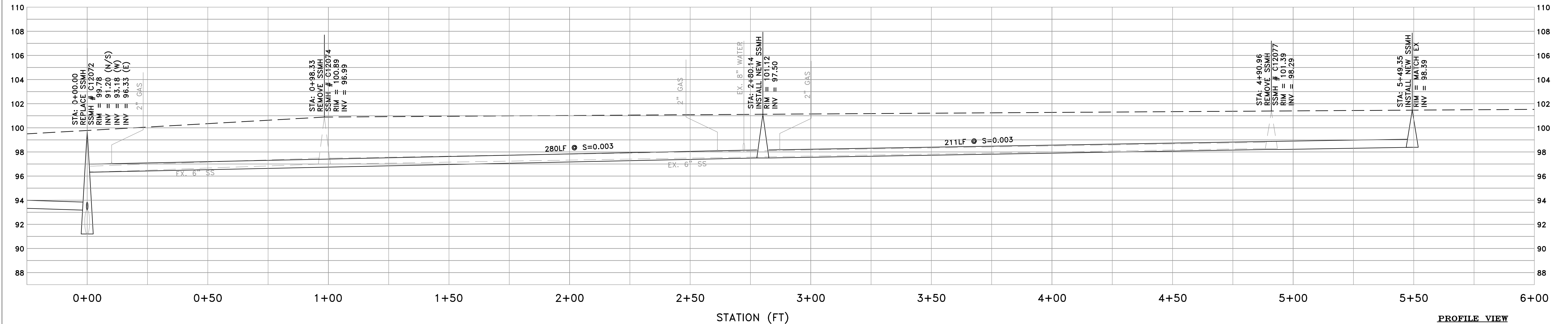
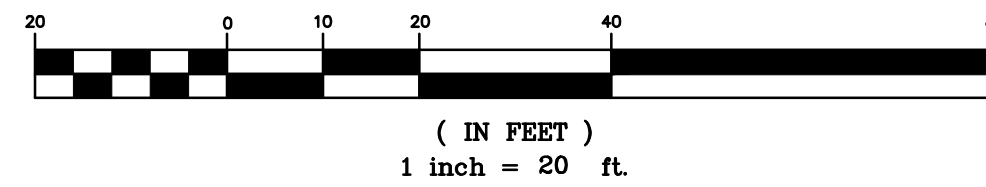


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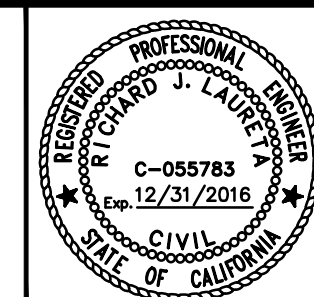
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WEST BAY
 SANITARY DISTRICT
 SAN MATEO COUNTY
 PROJECT No. 1758.3



BELLE HAVEN SEWER PROJECT
PIERCE EASEMENT (EAST)
MENLO PARK, CALIFORNIA

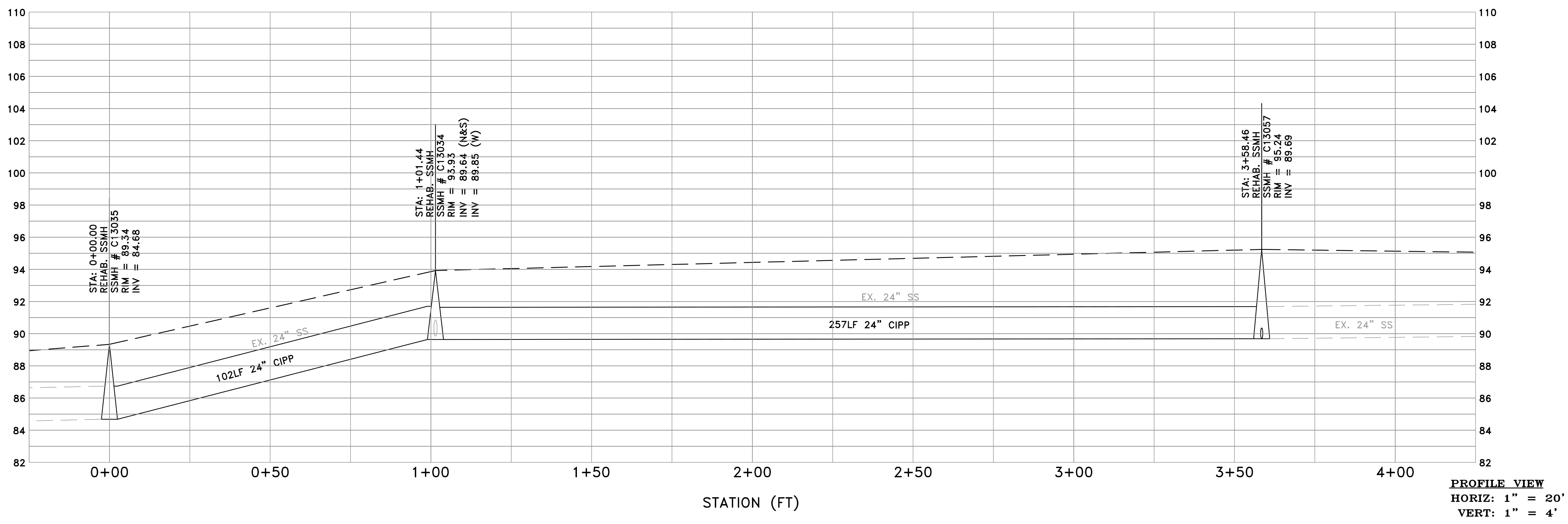
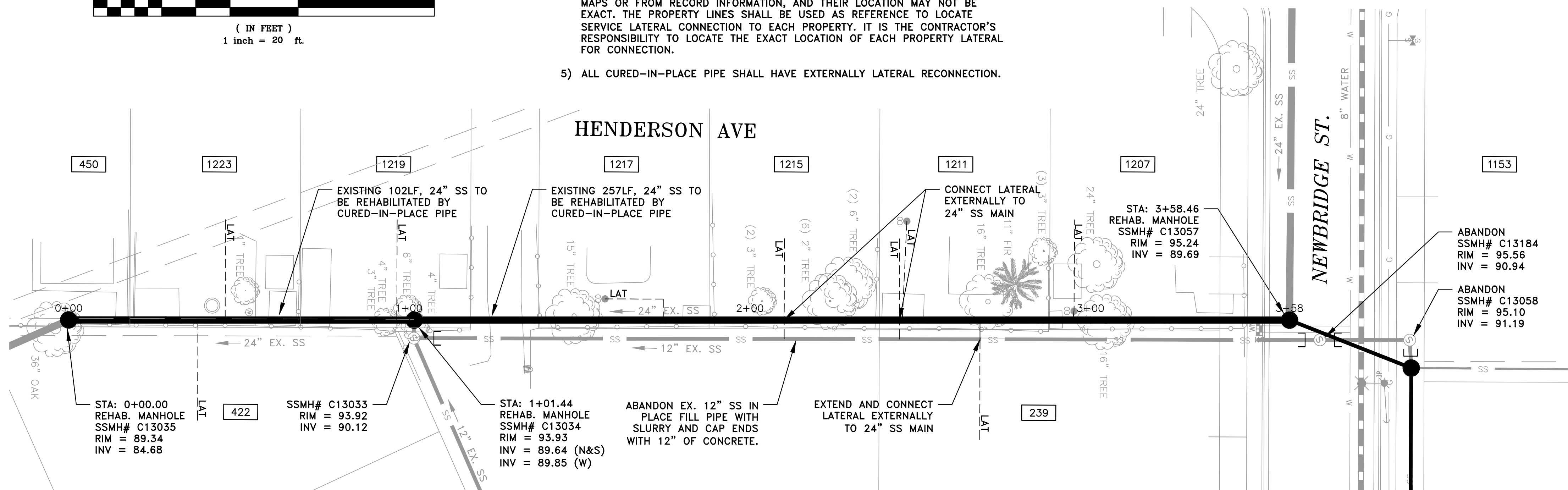
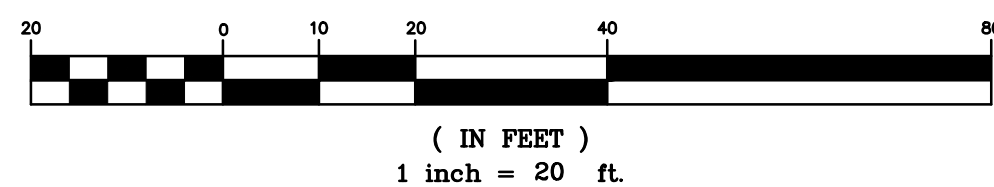
SHEET
18
 JOB NO.
1064

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- 5) ALL CURED-IN-PLACE PIPE SHALL HAVE EXTERNALLY LATERAL RECONNECTION.



GRAPHIC SCALE



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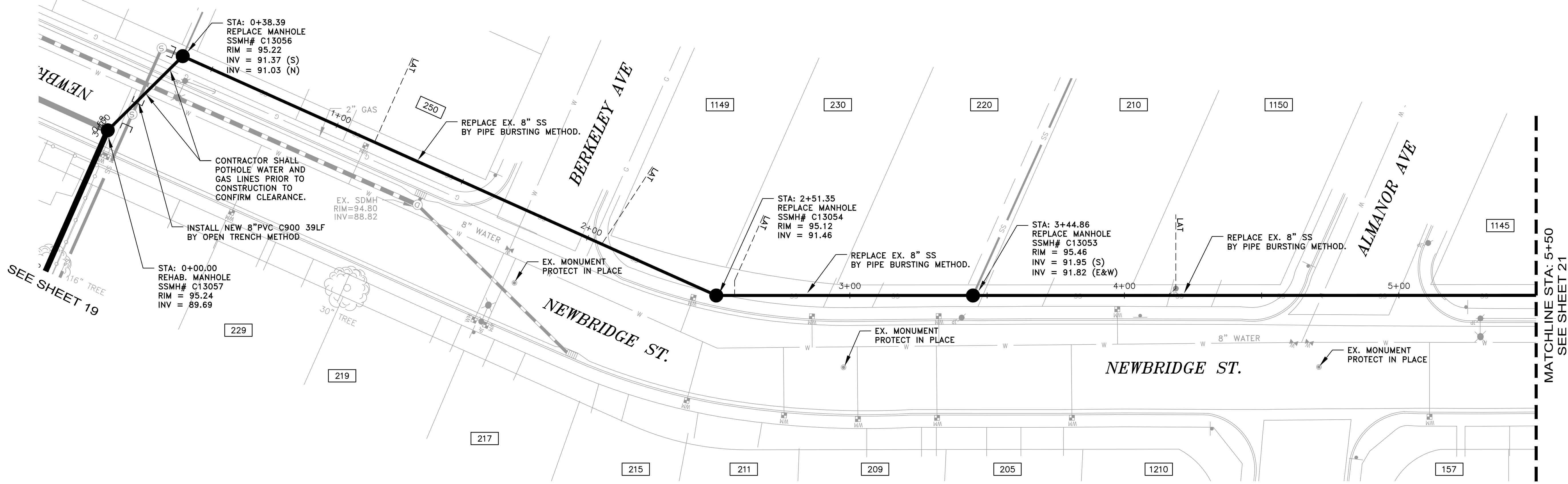
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WEST BAY
 SANITARY DISTRICT
 SAN MATEO COUNTY
 PROJECT No. 1758.3

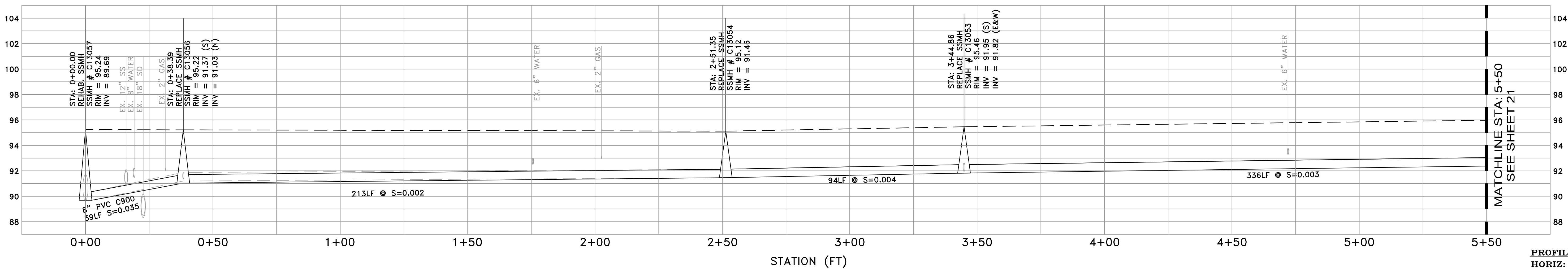
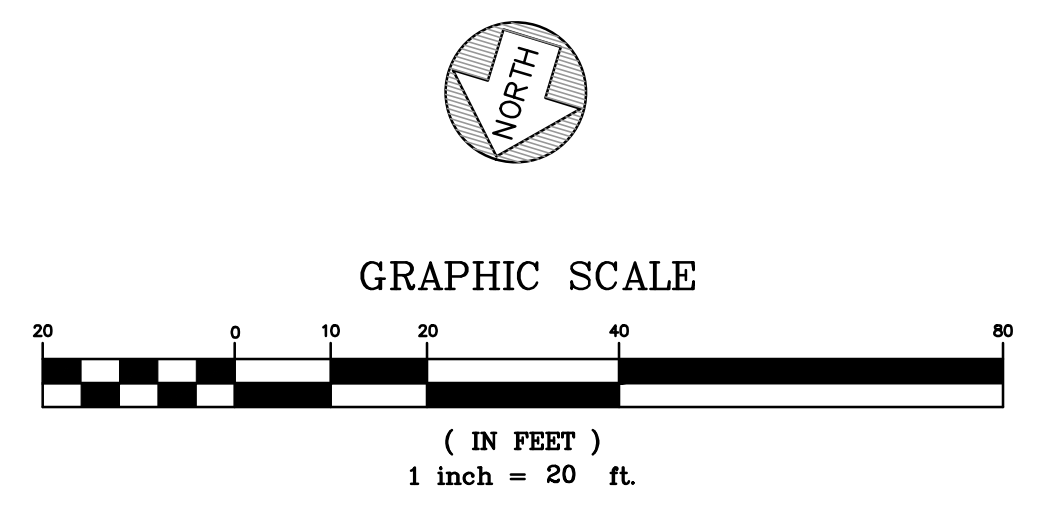


BELLE HAVEN SEWER PROJECT
HENDERSON EASEMENT
MENLO PARK, CALIFORNIA

SHEET	19
JOB NO.	1064



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 CIVIL ENGINEERS • SURVEYORS • CONSTRUCTION MANAGERS

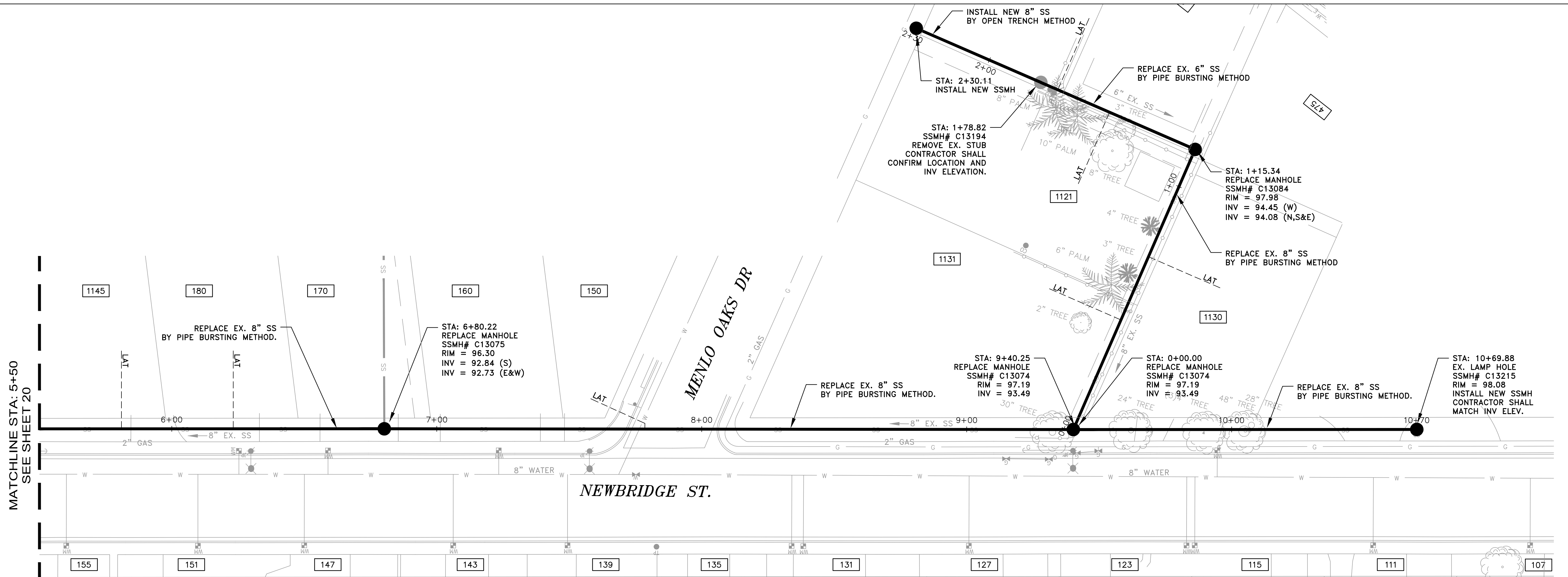
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WEST BAY
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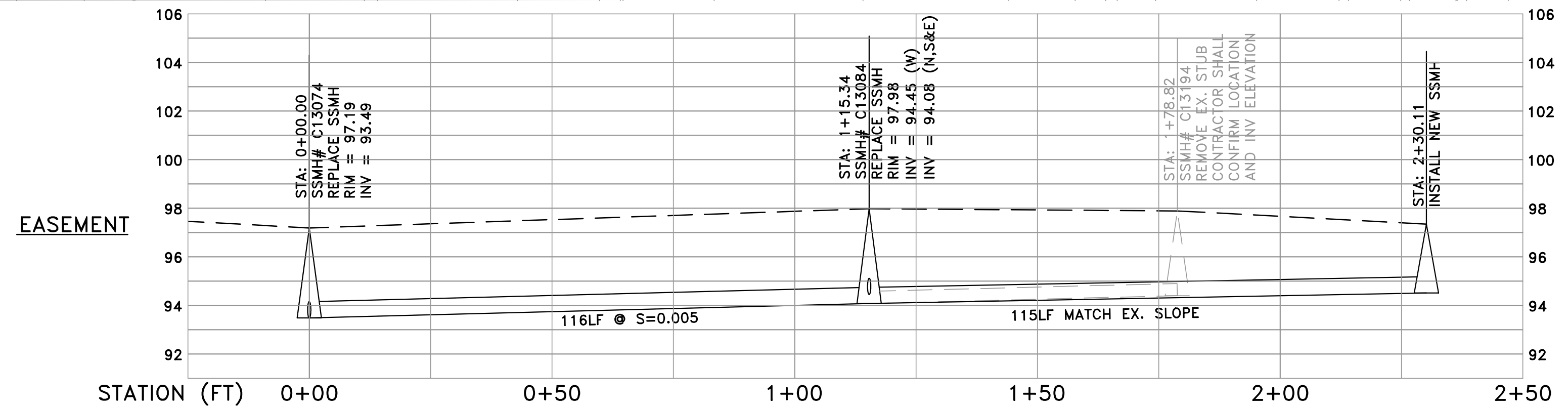
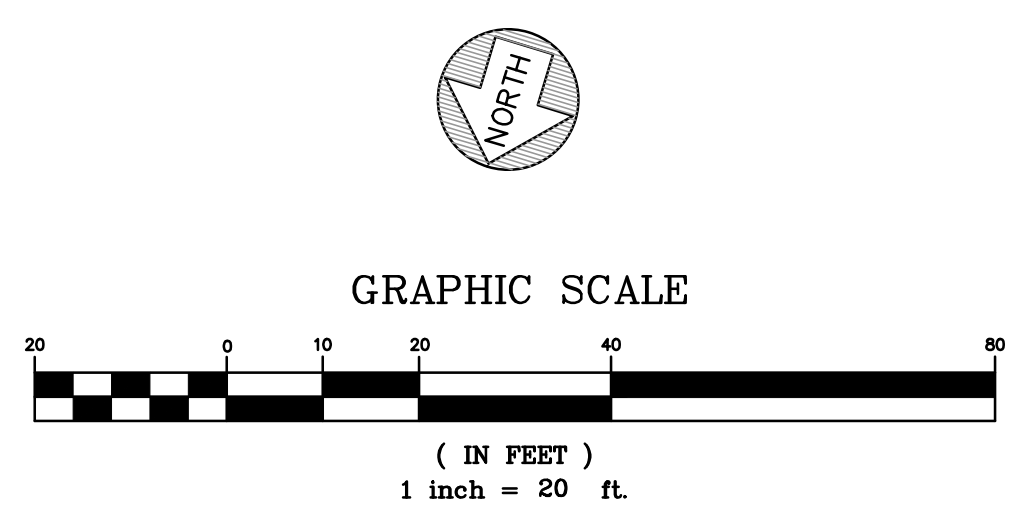


BELLE HAVEN SEWER PROJECT
NEWBRIDGE STREET
MENLO PARK, CALIFORNIA

SHEET	20
JOB NO.	1064



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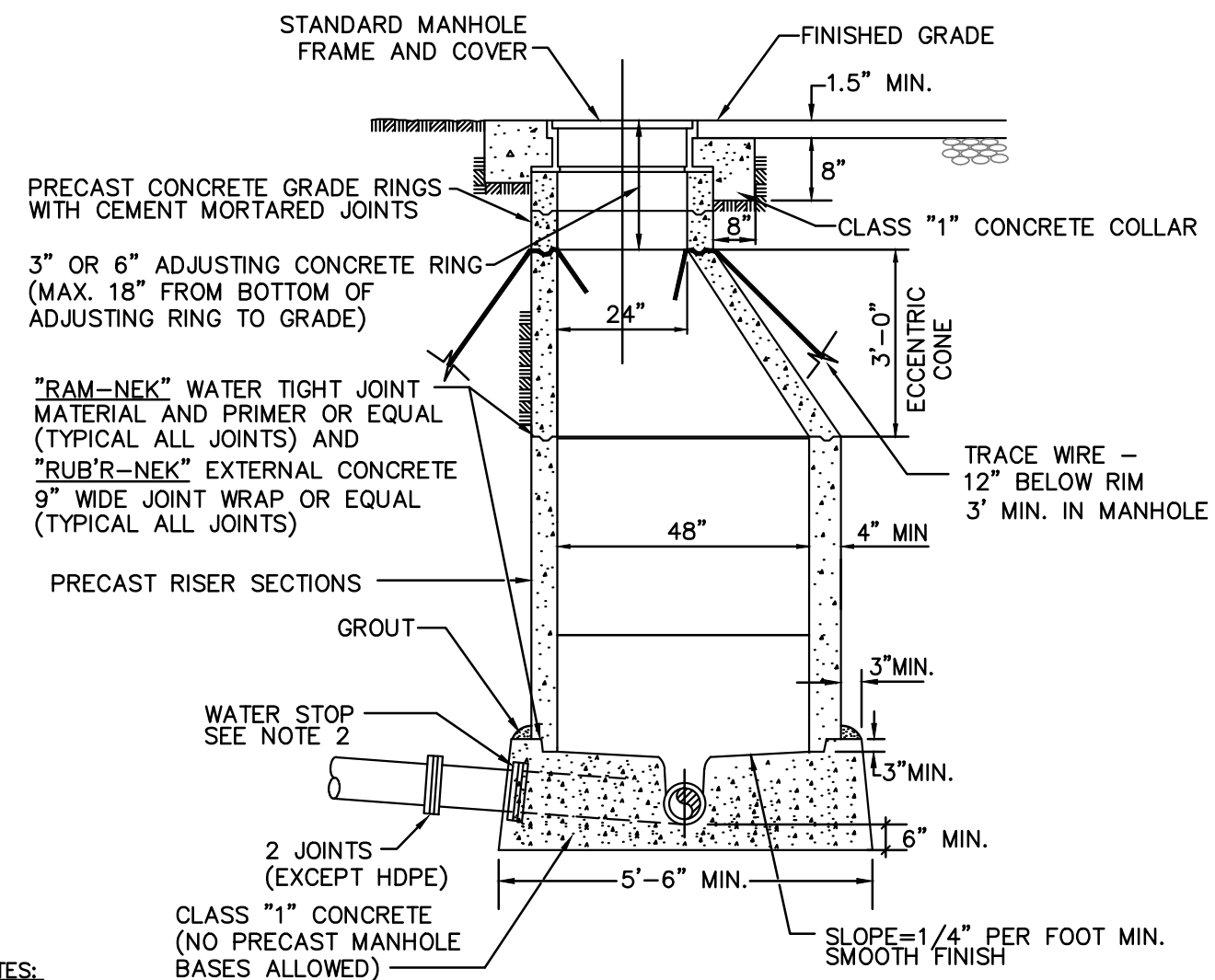
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WEST BAY
 SANITARY DISTRICT
 SAN MATEO COUNTY
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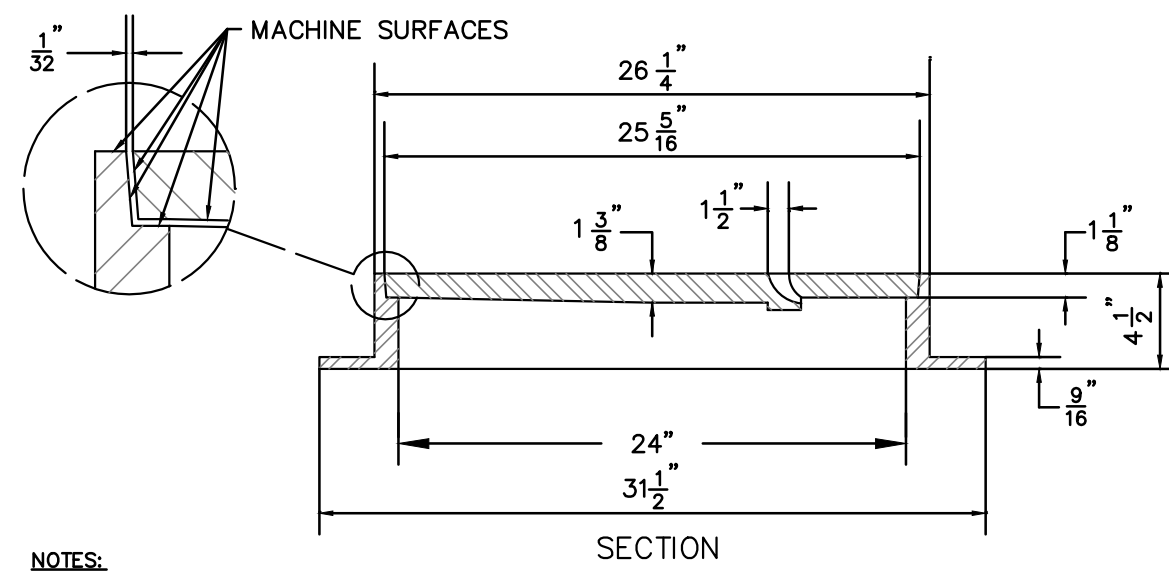
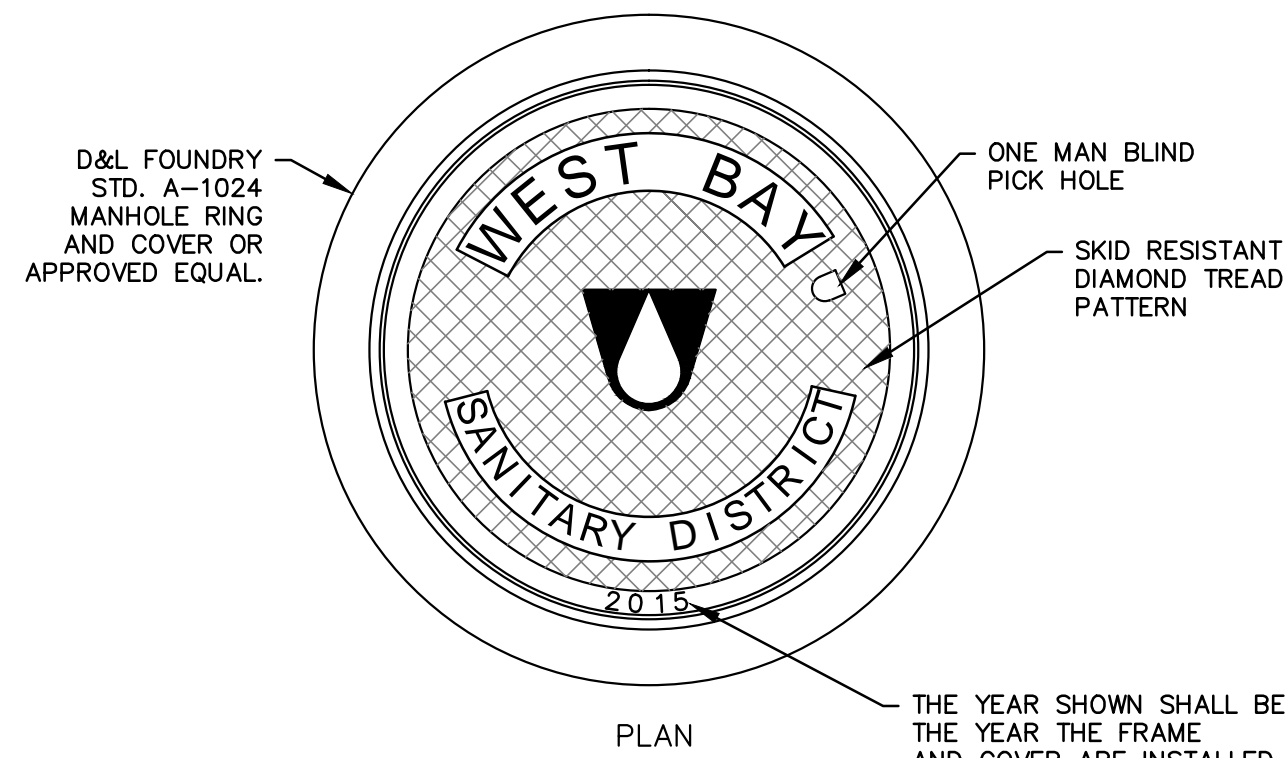
BELLE HAVEN SEWER PROJECT
NEWBRIDGE STREET/ MENLO OAKS EASEMENT
MENLO PARK, CALIFORNIA

SHEET	21
JOB NO.	1064



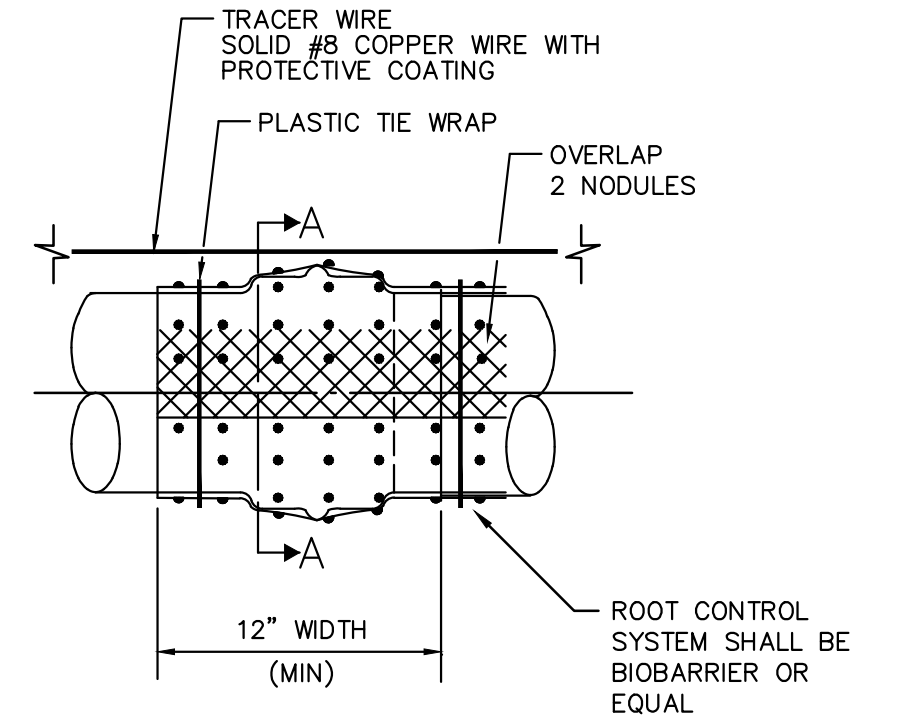
- NOTES:**
- 1) MANHOLE BASES SHALL BE PLACED ON IMPORTED BEDDING MATERIAL COMPACTED TO 95% RELATIVE COMPACTION.
 - 2) AN APPROVED WATER STOP SHALL BE INSTALLED ON ALL FLEXIBLE PIPE ENTERING OR LEAVING A MANHOLE, AND CENTERED UNDER MANHOLE WALL.
 - 3) INSTALL "RAM-NEK" WATER TIGHT JOINT MATERIAL OR EQUAL BETWEEN EACH JOINT OF CONE AND BARREL SECTIONS TO MAKE A FLEXIBLE WATER TIGHT JOINT. AFTER JOINT IS MADE, TRIM JOINT SMOOTH ON INSIDE OF MANHOLE.
 - 4) STEPS IN MANHOLES ARE NOT ALLOWED.
 - 5) TRACE WIRE SHALL BE 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 BASE SHALL CURE FOR A MINIMUM OF 24 HOURS PRIOR TO PLACEMENT OF BARREL AND CONE SECTIONS.

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 LOADING AND SHALL NOT EXCEED 145 POUNDS IN WEIGHT.
 - 3) THE FRAME AND COVER SHALL BE PAINTED OR DIPPED IN ASPHALT PRIOR TO LEAVING FOUNDRY.

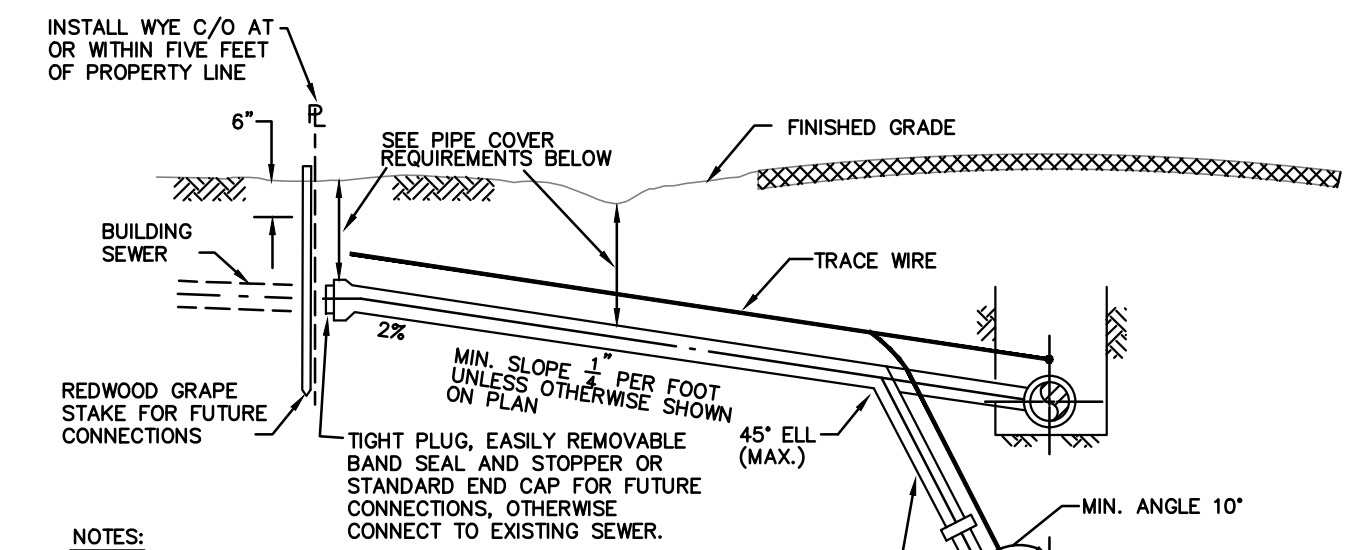
MANHOLE FRAME AND COVER



APPLICATION:

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

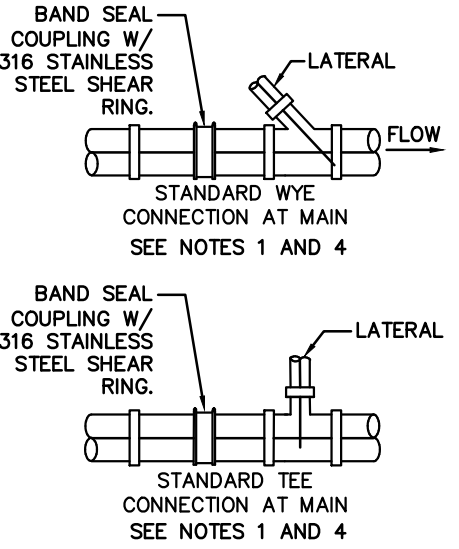
ROOT CONTROL SYSTEM



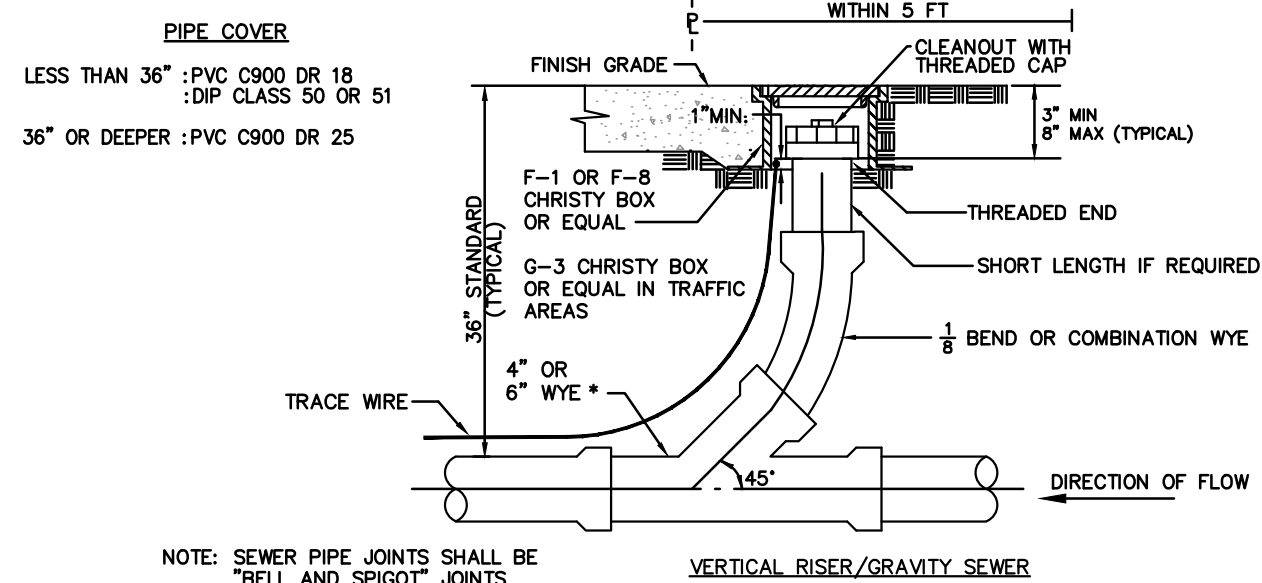
- NOTES:**
1. FOR SEWER DEPTHS FROM MINIMUM COVER TO 5 FEET, USE STANDARD WYE CONNECTION. FOR DEPTHS BELOW 5 FEET, USE STANDARD TEE CONNECTION WITH SLOPING RISER AS SHOWN. TAP-TITE CONNECTIONS MAY BE USED WHERE APPLICABLE.
 2. WHEN SEWER IS AT MINIMUM DEPTH, HOLD SERVICE LINE TO MINIMUM SLOPE AND LESSEN 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.

RISER TO REST AGAINST UNDISTURBED SOIL. WHERE TRENCH IS TOO WIDE, PVC C-900 CL200 PIPE SHALL BE USED AND SHALL BE INSTALLED VERTICALLY IN CONCRETE CRADLE.

DEEP SEWER - GREATER THAN 10'



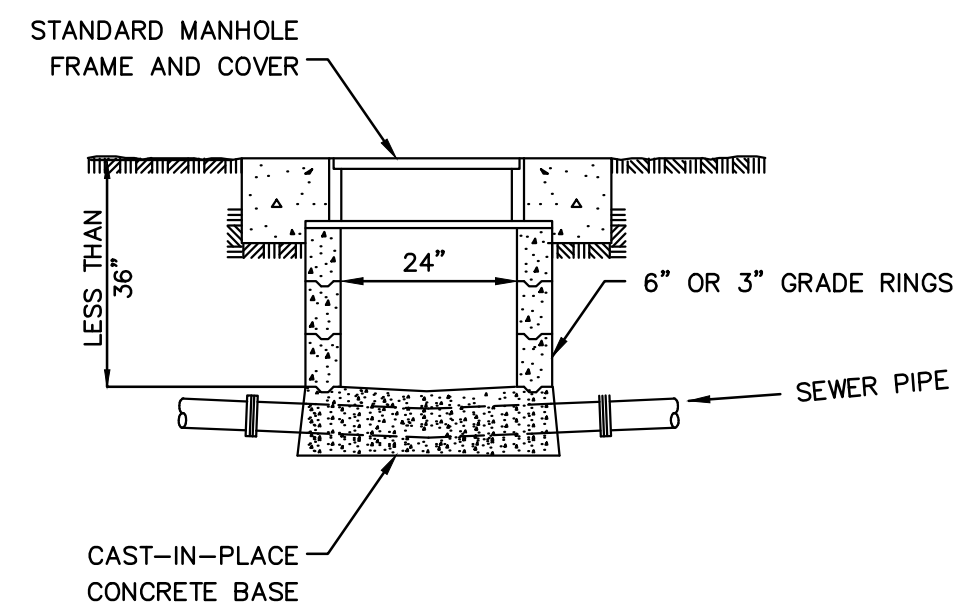
SANITARY SEWER LATERAL CONNECTIONS



- NOTE:** SEWER PIPE JOINTS SHALL BE "BELL AND SPIGOT" JOINTS
- NOTES:**
- 1) THE CLEAN OUT ASSEMBLY SHALL BE THE SAME SIZE AS THE LATERAL SEWER IT SERVICES.
 - 2) COVERS SHALL BE C.I. FOR STREETS, ALLEYS OR DRIVES, OTHERWISE FIBREGLASS 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



SHALLOW MANHOLE DETAIL IN EASEMENTS WITH LIMITED ACCESS

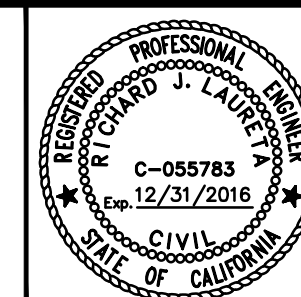
DATE:	5/12/14	12/10/14	ISSUED FOR BID	
SCALE:	AS NOTED			
DESIGNED:	RJL			
DRAWN:	JJF			
CHECKED:	RJL			
PROJ. ENGR:	RJL			
	BY	DATE	DESCRIPTION OF REVISIONS	APP'D



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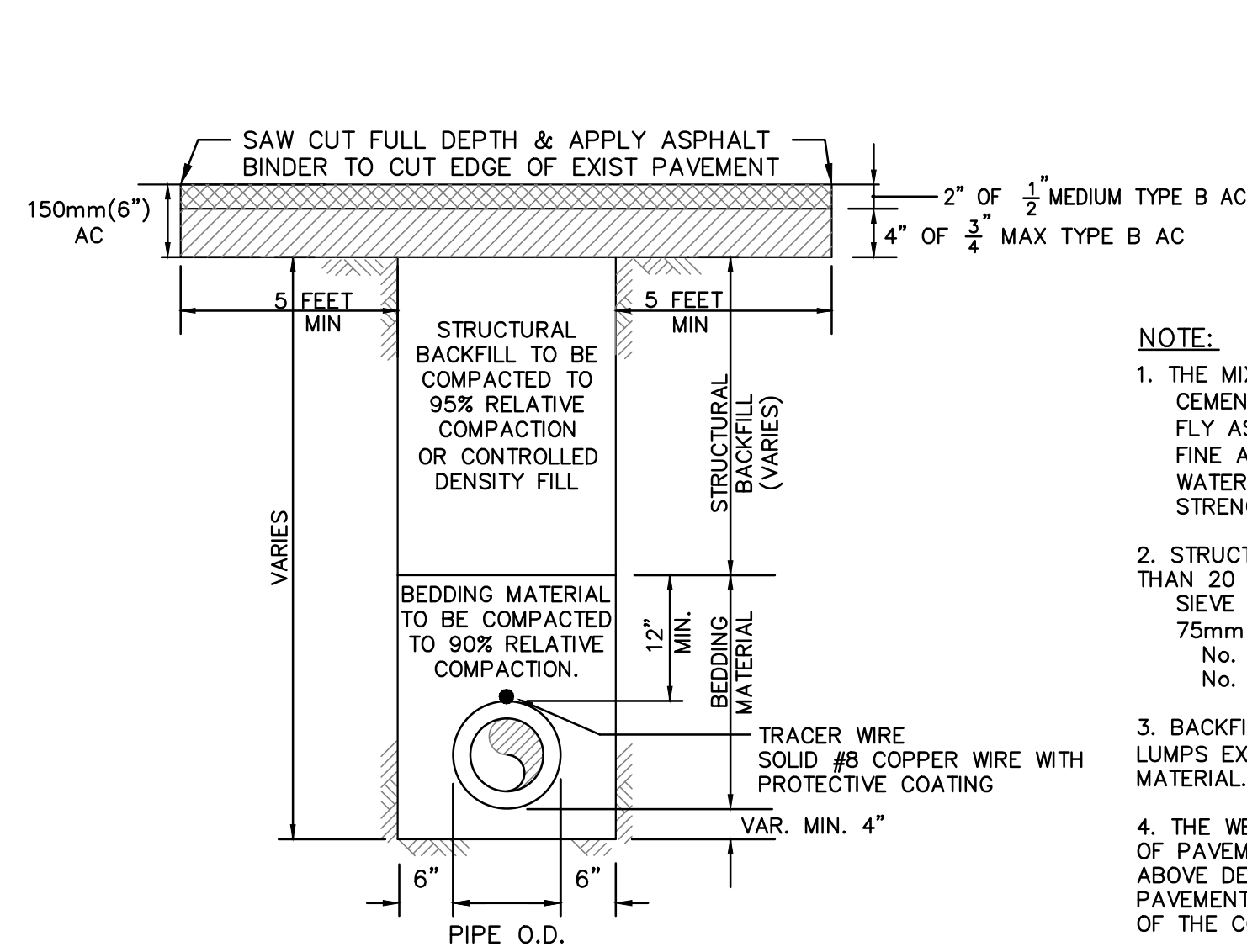
WEST BAY
SANITARY DISTRICT
SAN MATEO COUNTY

PROJECT No. 1758.3



BELLE HAVEN SEWER PROJECT
DETAIL SHEET
SAN MATEO COUNTY, CALIFORNIA

SHEET
22
JOB NO.
1064



BEDDING MATERIAL

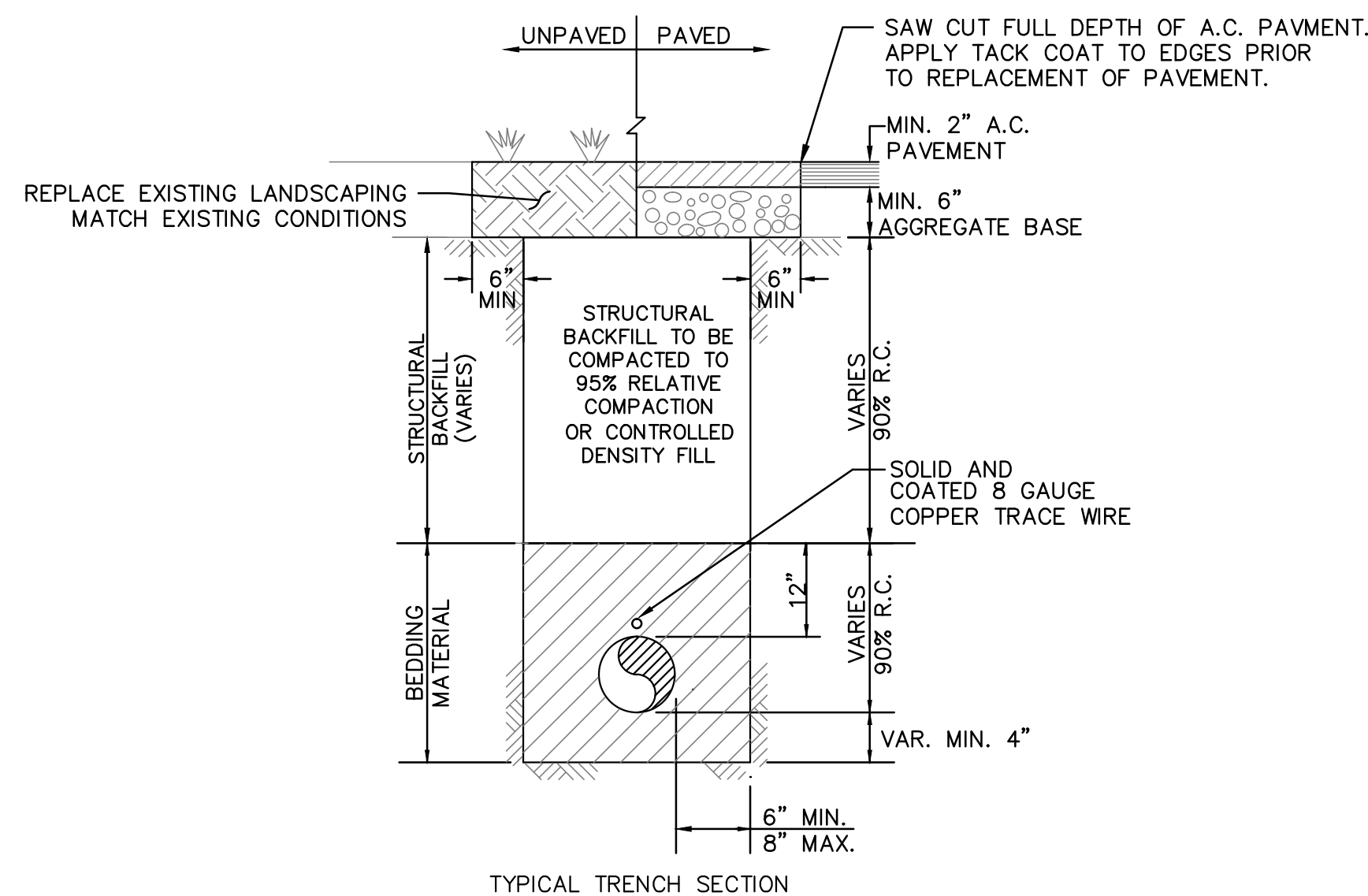
GRANULAR BEDDING MATERIAL REQUIREMENTS (ASTM D448 SIZE #67)

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

- NOTE:**
- 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: 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
 - BACKFILL MATERIAL: MATERIAL FROM EXCAVATION FREE FROM STONES OR LUMPS EXCEEDING 75mm (3"), VEGETABLE MATTER OR OTHER UNSATISFACTORY MATERIAL.
 - THE WEST BAY SANITARY DISTRICT SHALL BE RESPONSIBLE FOR THE PAYMENT OF PAVEMENT RESTORATION OVER THE MAXIMUM TRENCH WIDTH AS SHOWN ON THE ABOVE DETAIL. ANYTHING BEYOND THE MAXIMUM TRENCH WIDTH, INCLUDING PAVEMENT FAILURE CAUSED BY THE CONTRACTOR, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, UNLESS AUTHORIZED BY THE DISTRICT.

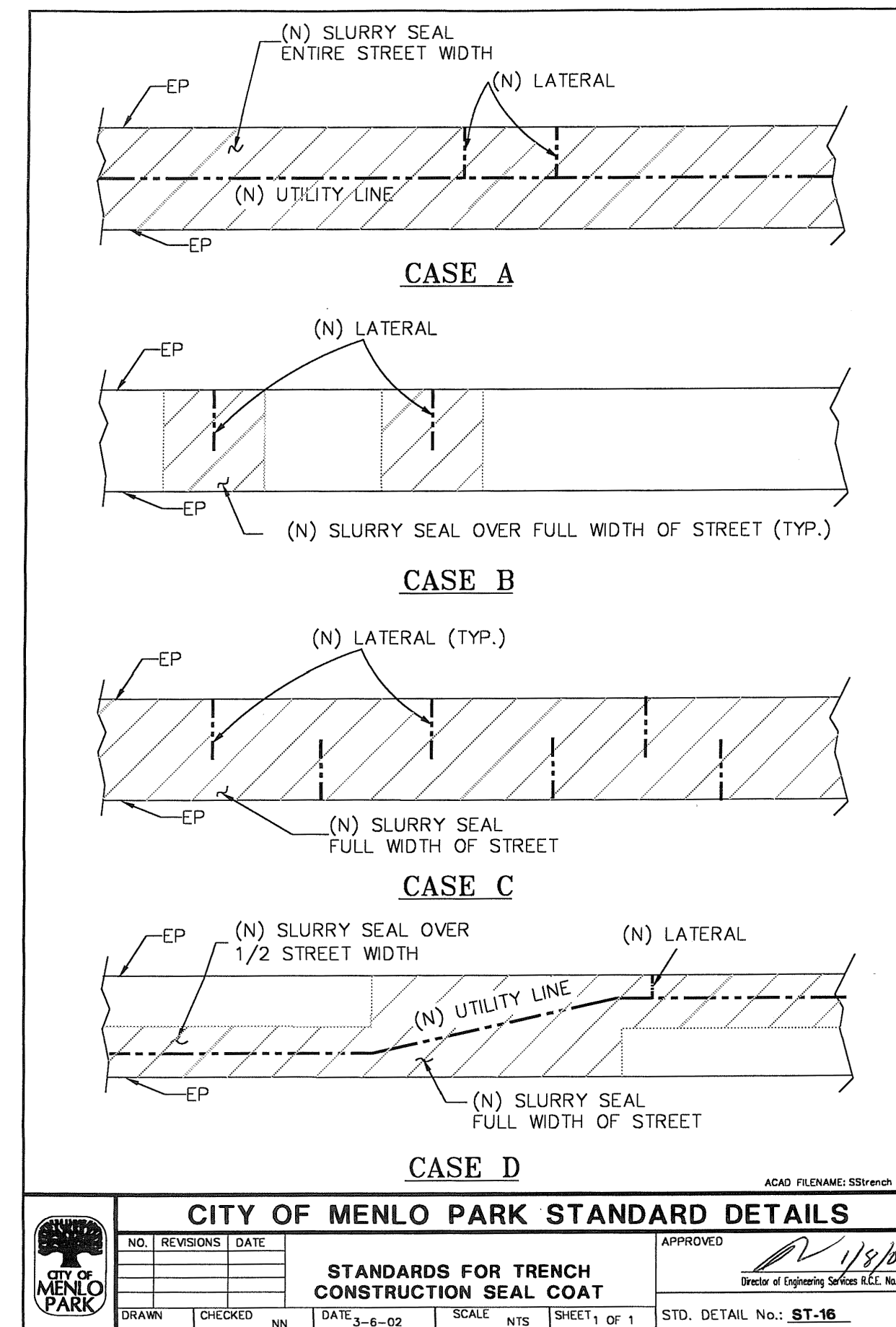
FULL DEPTH AC PAVEMENT, 150mm(6") MIN. BUT SHALL NOT BE LESS THAN EXISTING EXISTING PAVEMENT SECTION.

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



BEDDING MATERIAL		STRUCTURAL BACKFILL	
ANGULAR BEDDING MATERIAL REQUIREMENTS PERCENT PASSING		STRUCTURAL BACKFILL REQUIREMENTS PERCENT PASSING	
SIEVE SIZES	PERCENTAGE PASSING	SIEVE SIZES	PERCENTAGE PASSING
1"	100	1-1/2"	100
3/4"	90-100	3/4"	80-100
3/8"	20-55	#4	30-60
#4	0-10	#30	5-35
#8	0-5	#200	0-12

2 UTILITY TRENCH-IN EASEMENT AREAS



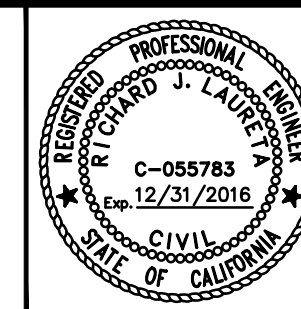
3 STANDARDS FOR TRENCH CONSTRUCTION SEAL COAT

DATE:	5/12/14	12/10/14	ISSUED FOR BID
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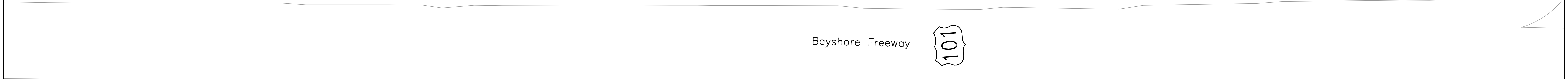
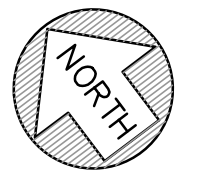
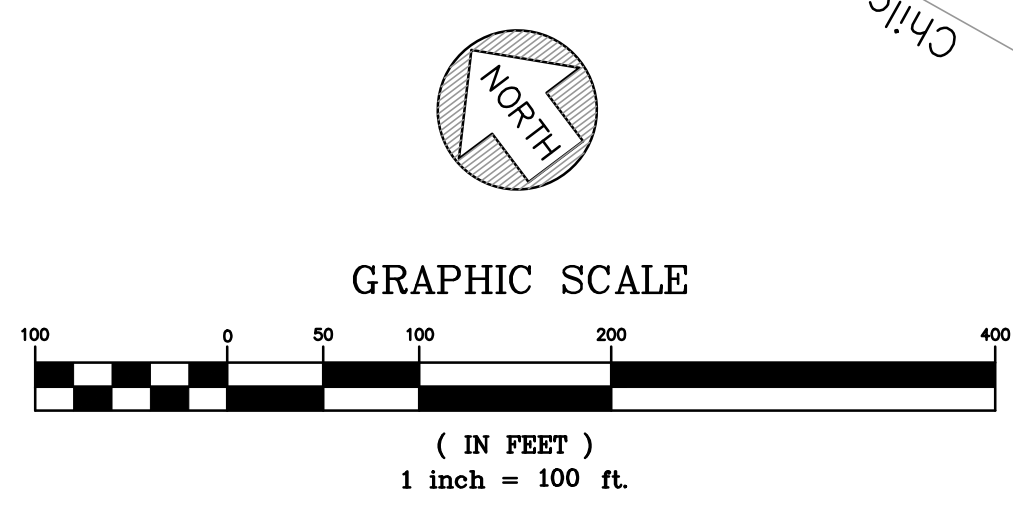
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WEST BAY
 SANITARY DISTRICT
 SAN MATEO COUNTY
 PROJECT No. 1758.3



BELLE HAVEN SEWER PROJECT
DETAIL SHEET
SAN MATEO COUNTY, CALIFORNIA

SHEET
23
 JOB NO.
1064



DATE:	5/12/14	12/10/14	ISSUED FOR BID	
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FL FREYER & LAURETA, INC.
 CIVIL ENGINEERS • SURVEYORS • CONSTRUCTION MANAGERS

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WEST BAY
 SANITARY DISTRICT
 SAN MATEO COUNTY
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BELLE HAVEN SEWER PROJECT
STRIPING PLAN
MENLO PARK, CALIFORNIA

SHEET	24
JOB NO.	1064