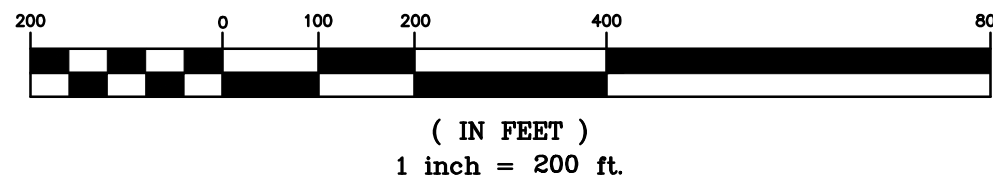


GRAPHIC SCALE



NOTES:

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CITY OF MENLO PARK

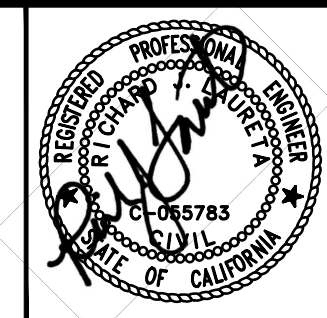
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SCALE:	AS NOTED			
DESIGNED:	AW,PJG			
DRAWN:	AW,PJG			
CHECKED:	JJF			
PROJ. ENGR:	RJL			
BY	DATE	DESCRIPTION OF REVISIONS	APP'D	

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**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY

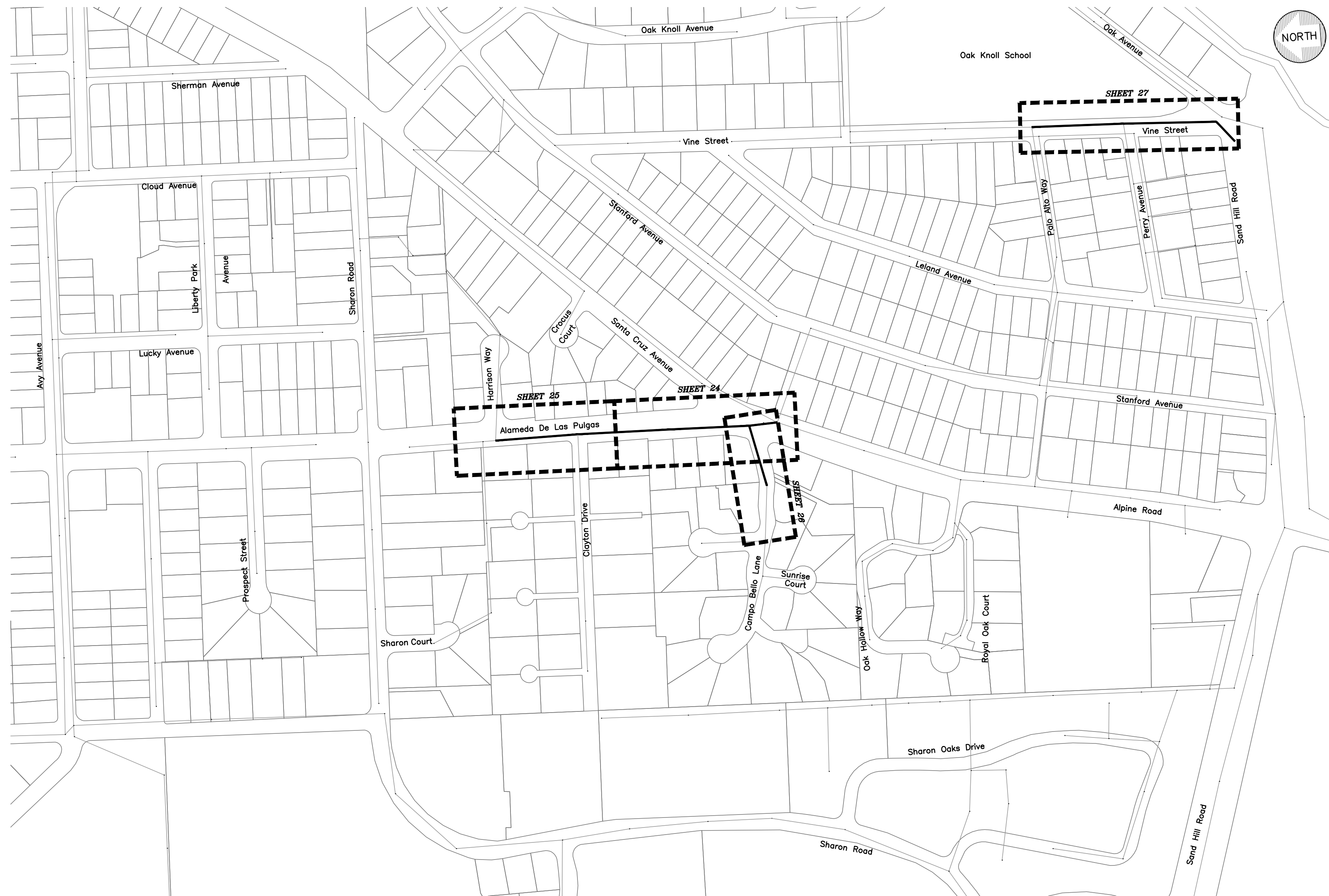
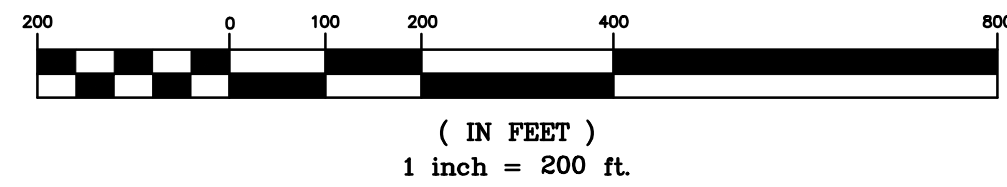
PROJECT No. 1758.7



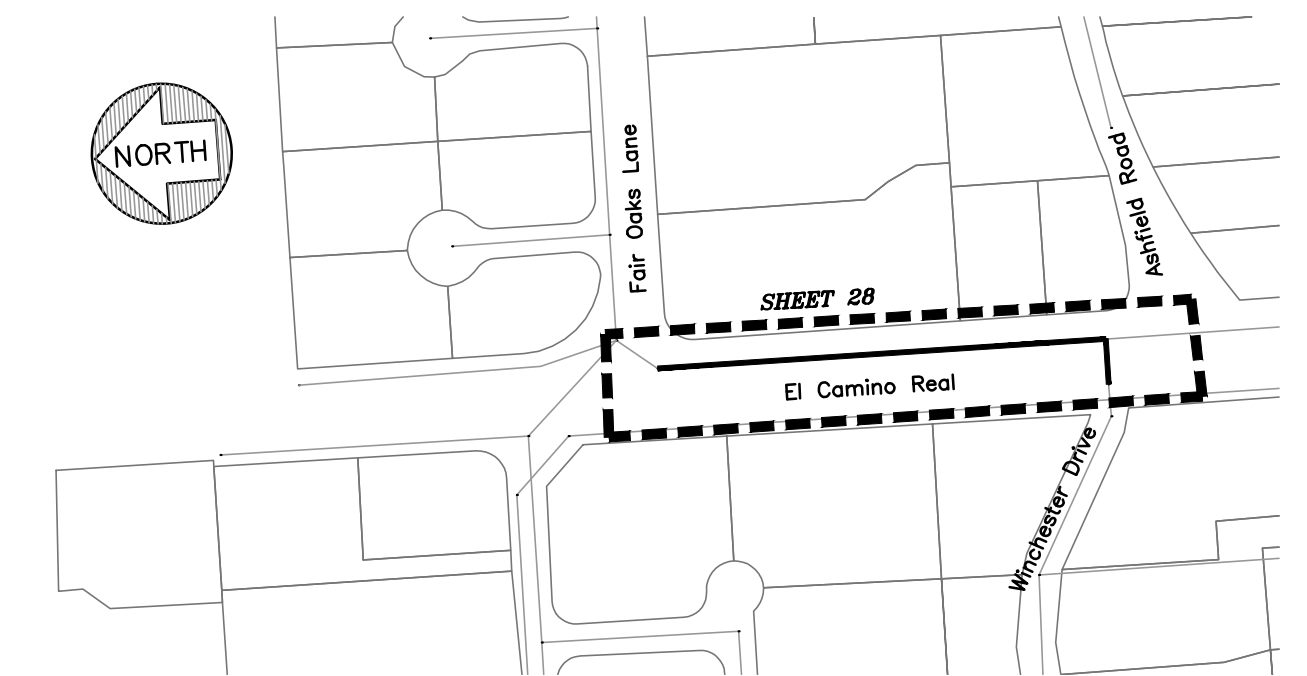
**BELLE HAVEN SEWER PROJECT PHASE III**  
**INDEX MAP #1**

SHEET  
**1**  
 JOB NO.  
**1075**

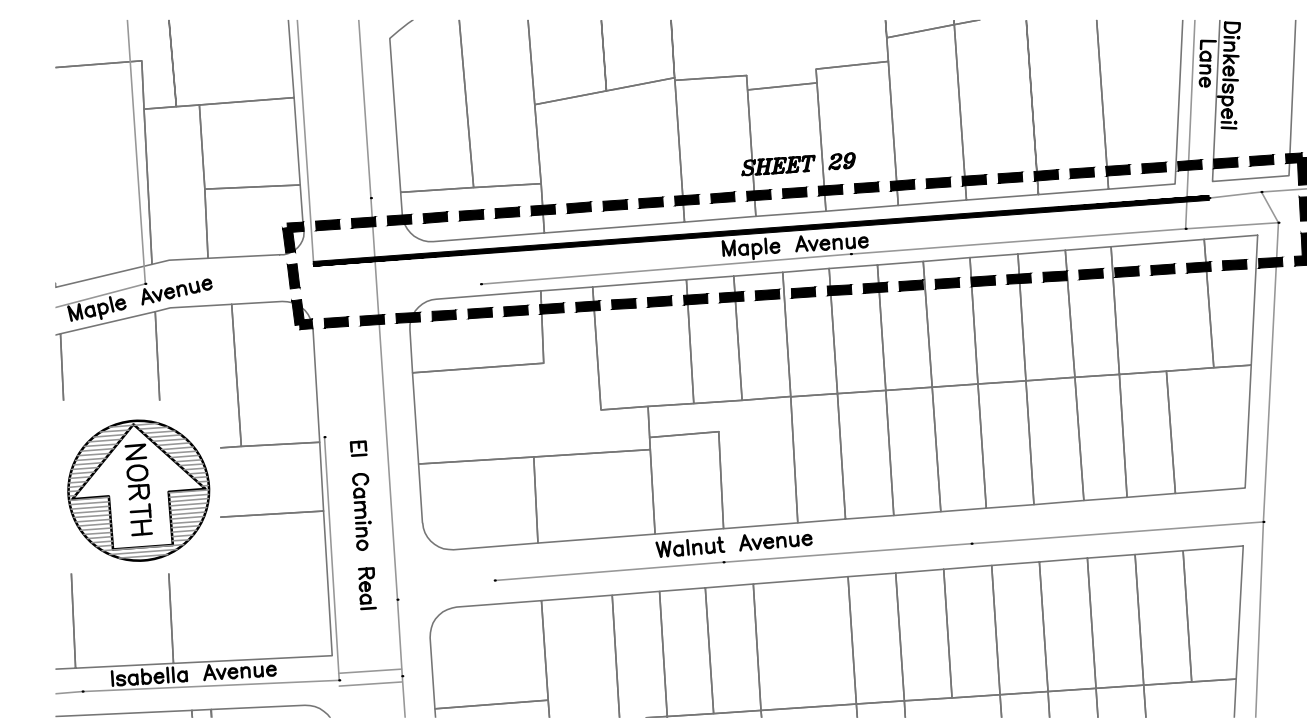
GRAPHIC SCALE



**SAN MATEO COUNTY**



**CALTRANS R.O.W.**



**TOWN OF ATHERTON**

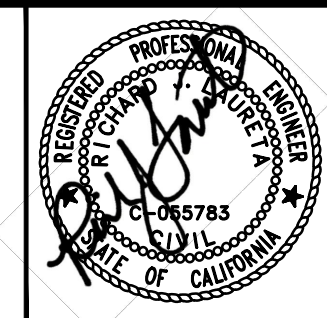
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DRAWN:	AW,PJG			
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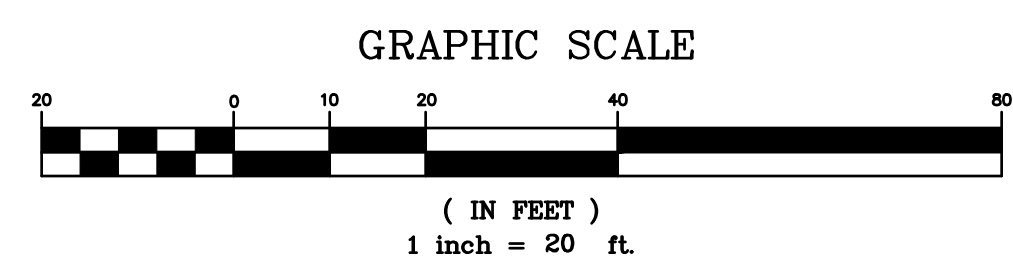
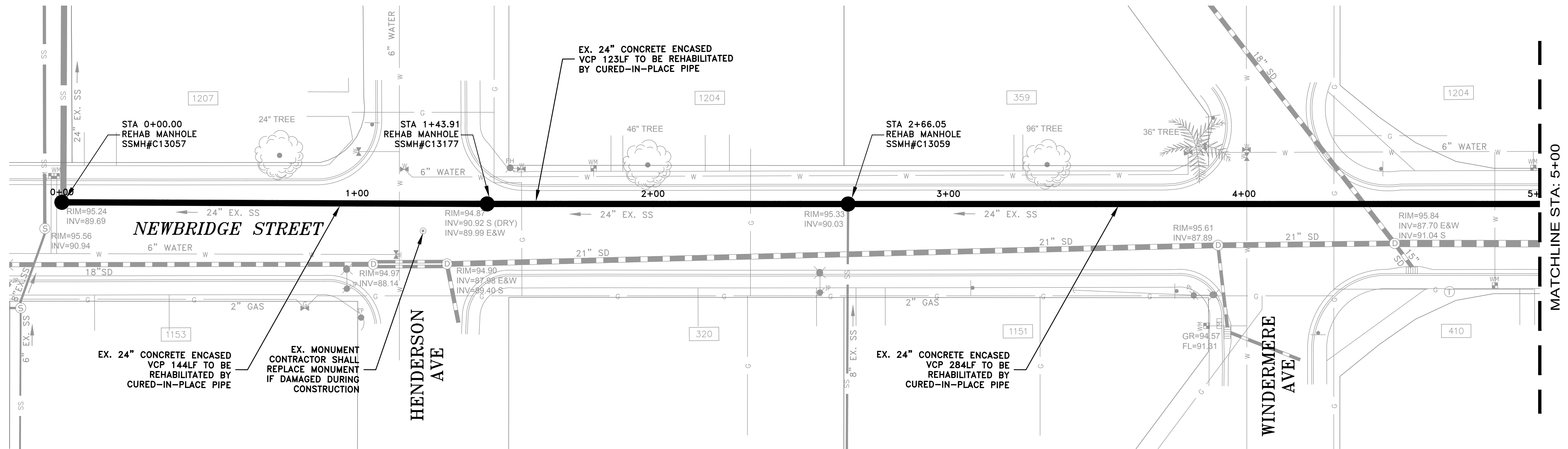
**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY

PROJECT No. 1758.7



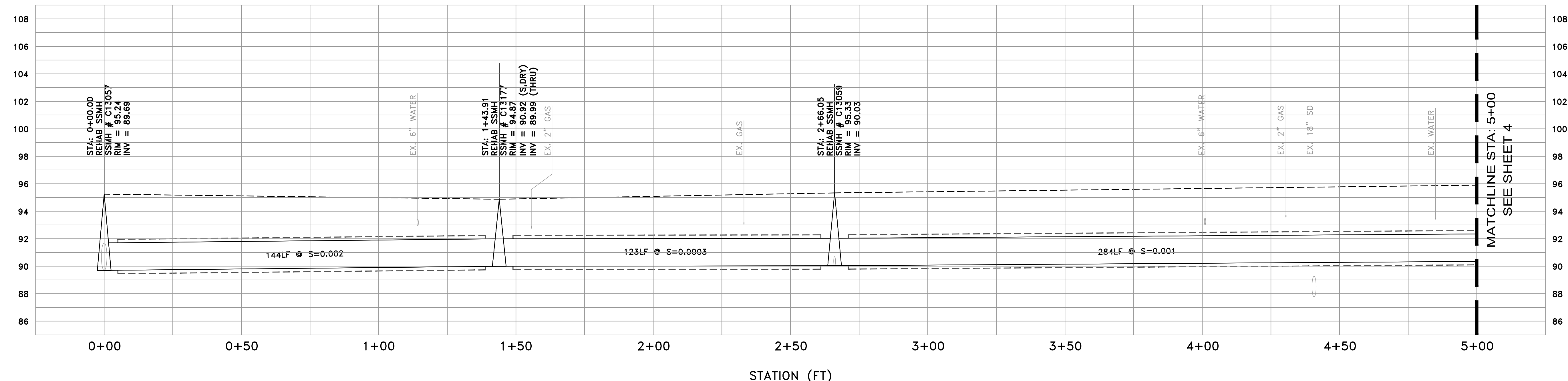
**BELLE HAVEN SEWER PROJECT PHASE III**  
**INDEX MAP #2**

SHEET  
 2  
 JOB NO.  
 1075



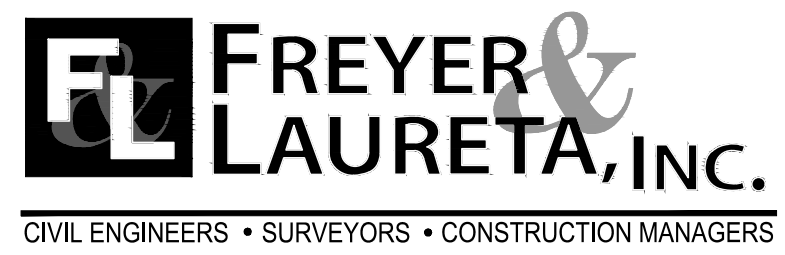
NOTES:

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

DATE:	02/08/18	02/15/18	ISSUED FOR BOARD REVIEW
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DRAWN:	AW,PJG		
CHECKED:	JJF		
PROJ. ENGR:	RJL		
BY	DATE	DESCRIPTION OF REVISIONS	APP'D

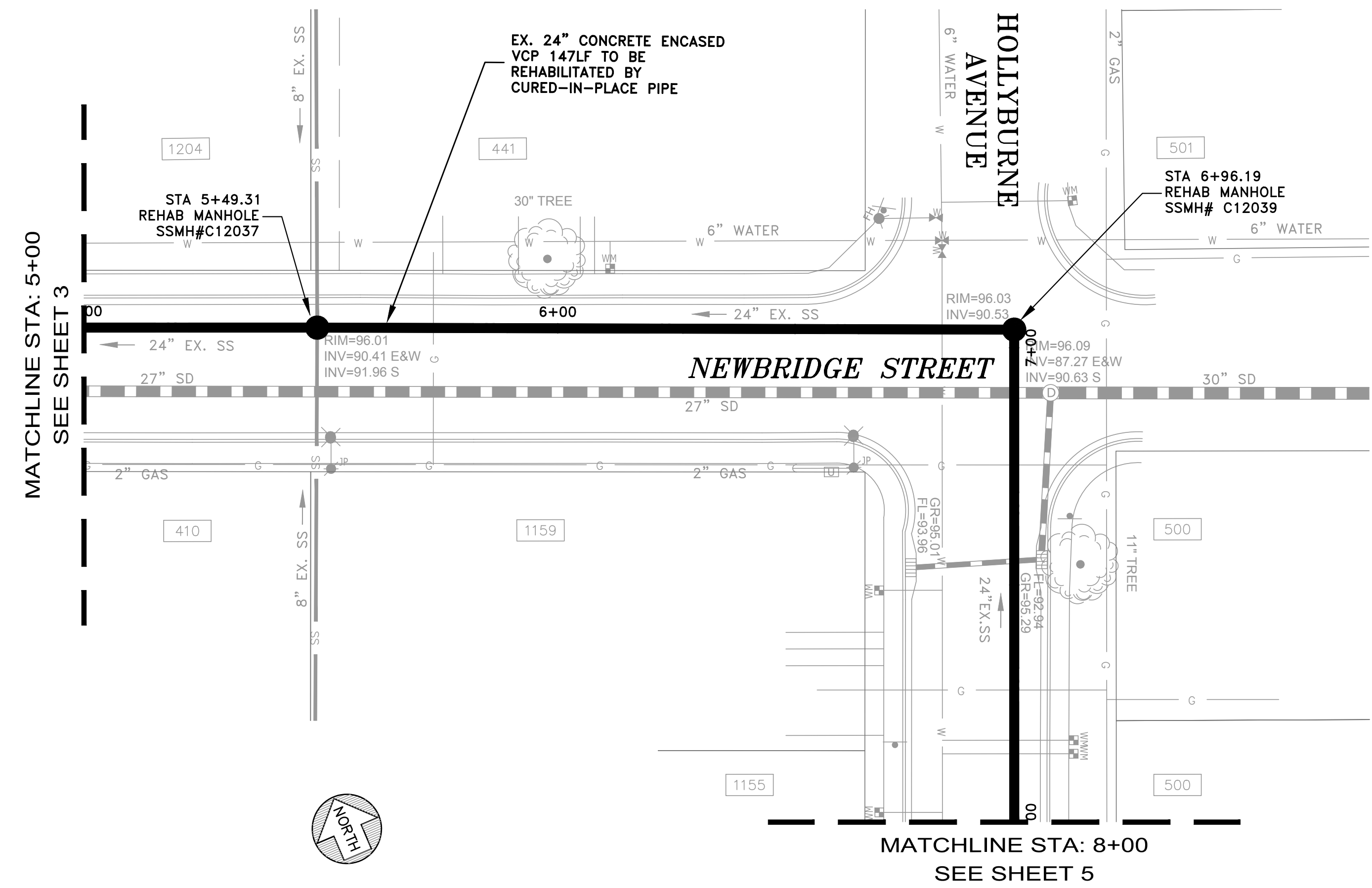


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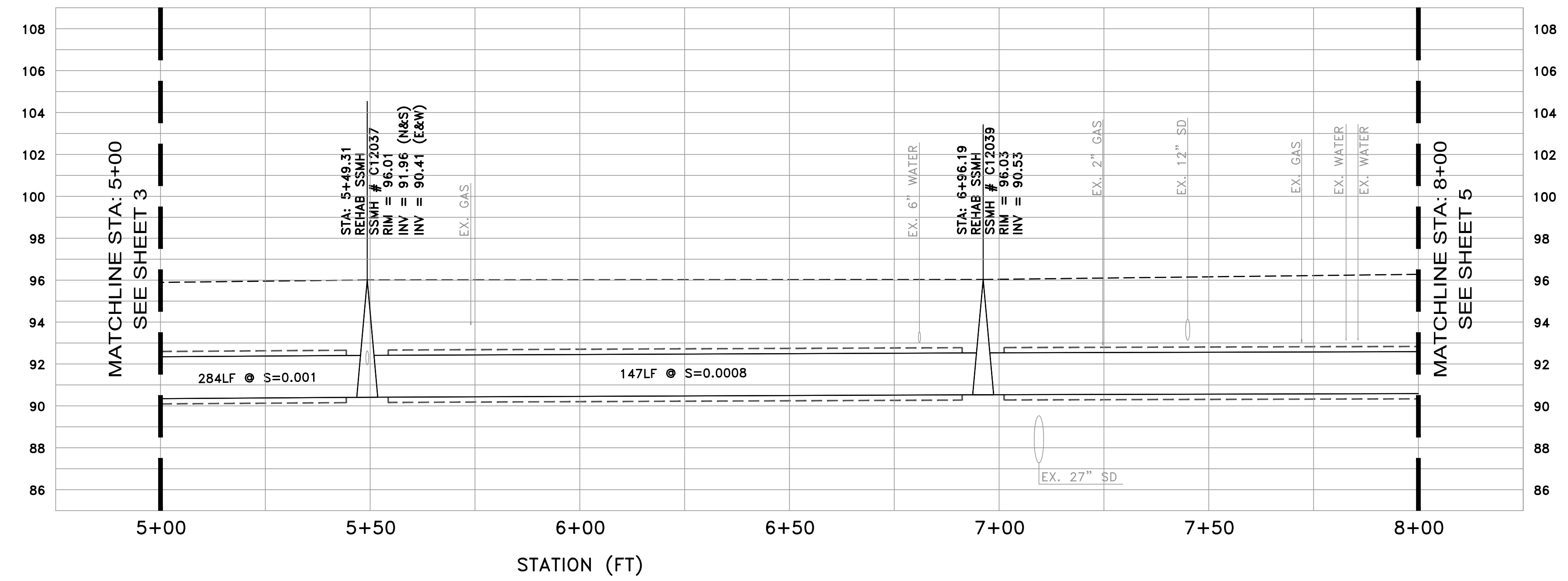


**BELLE HAVEN SEWER PROJECT PHASE III**  
**NEWBRIDGE STREET**  
**MENLO PARK, CALIFORNIA**

SHEET	3
JOB NO.	1075



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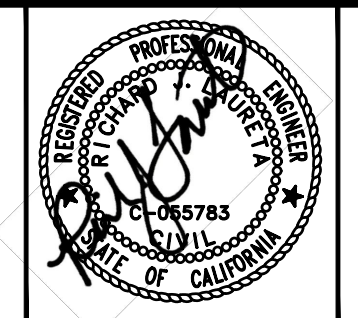
PROFILE VIEW  
 HORIZ: 1" = 20'  
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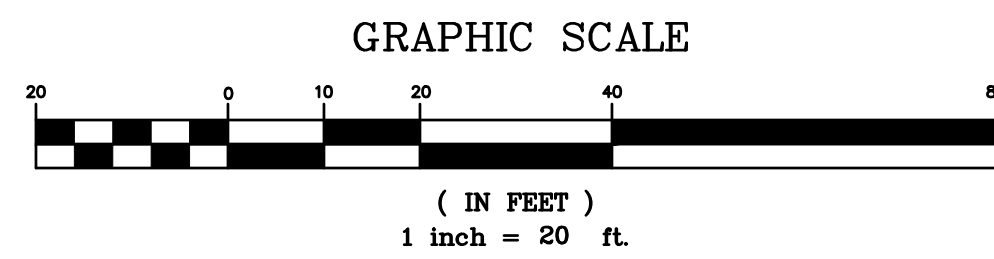
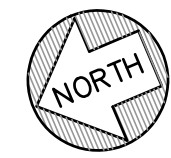
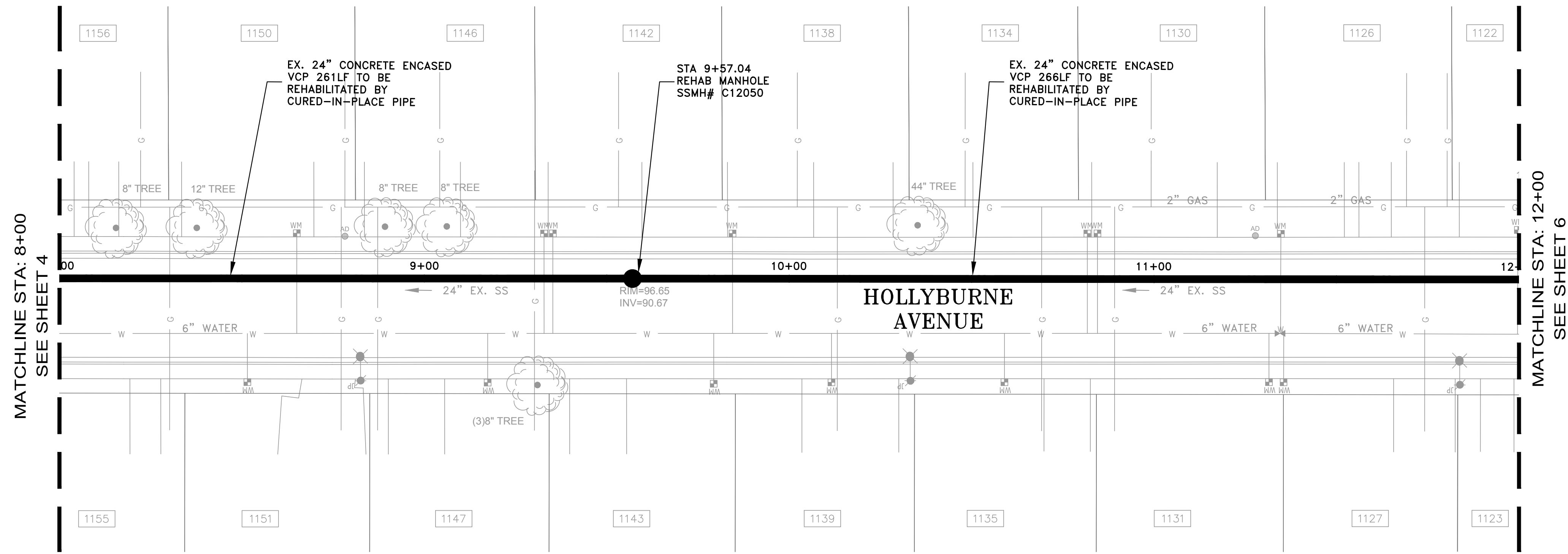
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**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY  
 PROJECT No. 1758.7



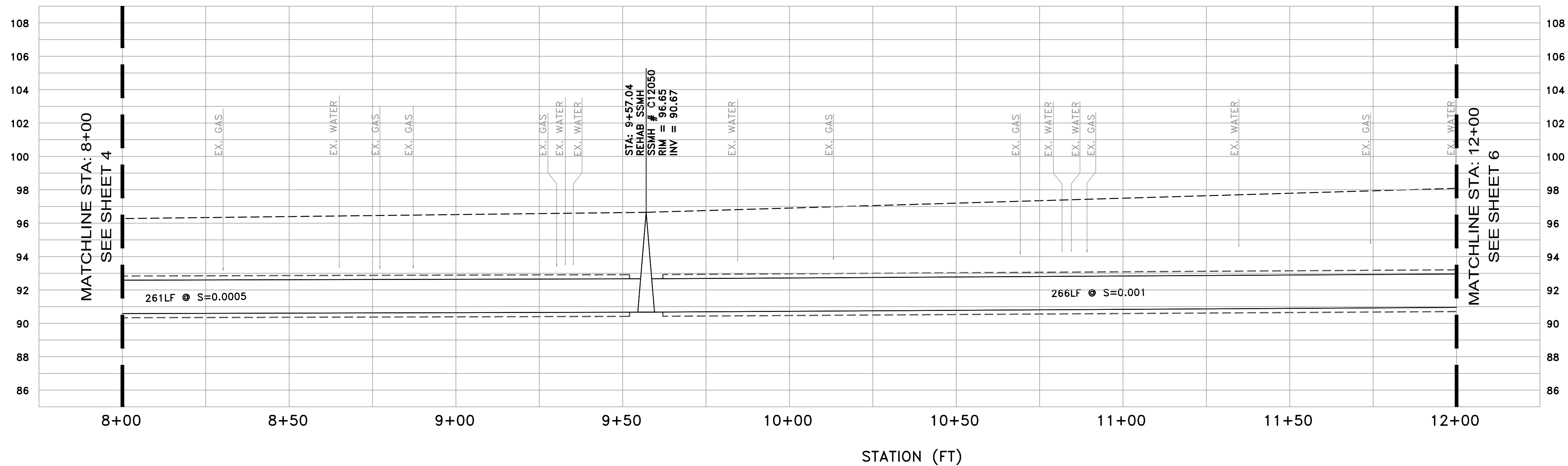
**BELLE HAVEN SEWER PROJECT PHASE III**  
**NEWBRIDGE STREET & HOLLYBURNE AVENUE**  
**MENLO PARK, CALIFORNIA**

SHEET	4
JOB NO.	1075



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

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



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PROJECT No. 1758.7



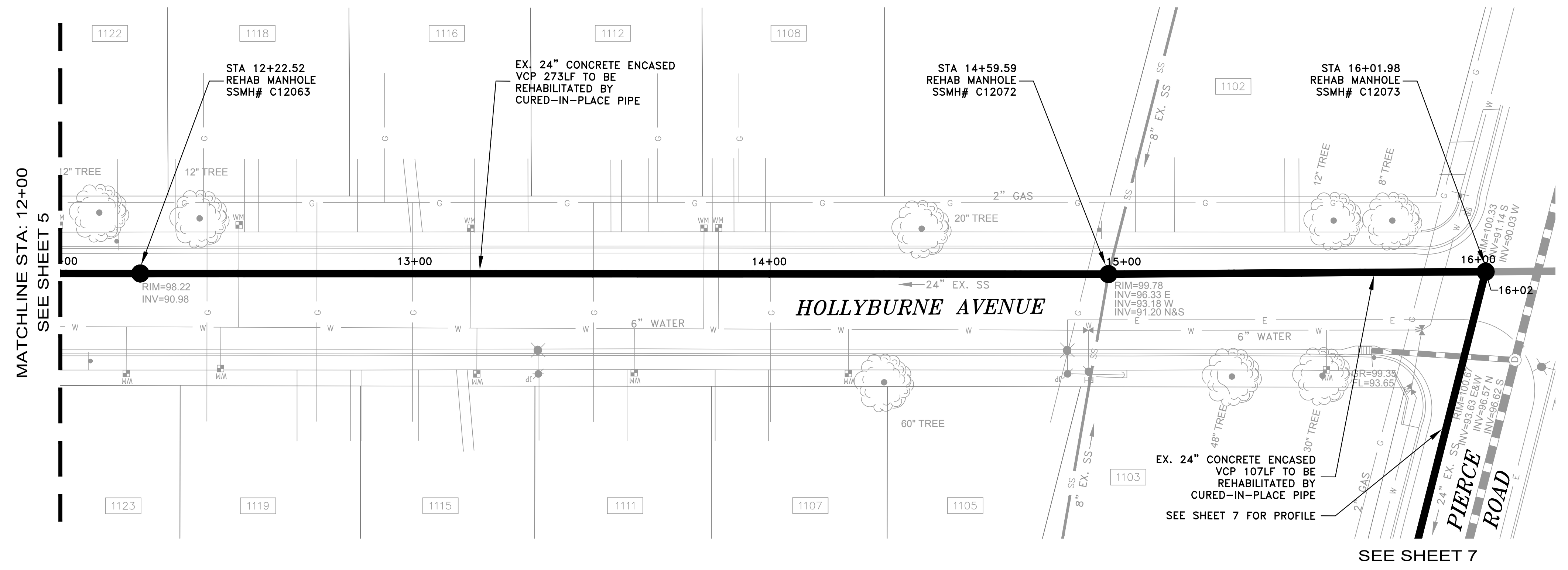
**BELLE HAVEN SEWER PROJECT PHASE III**  
**HOLLYBURNE AVENUE**  
**MENLO PARK, CALIFORNIA**

SHEET

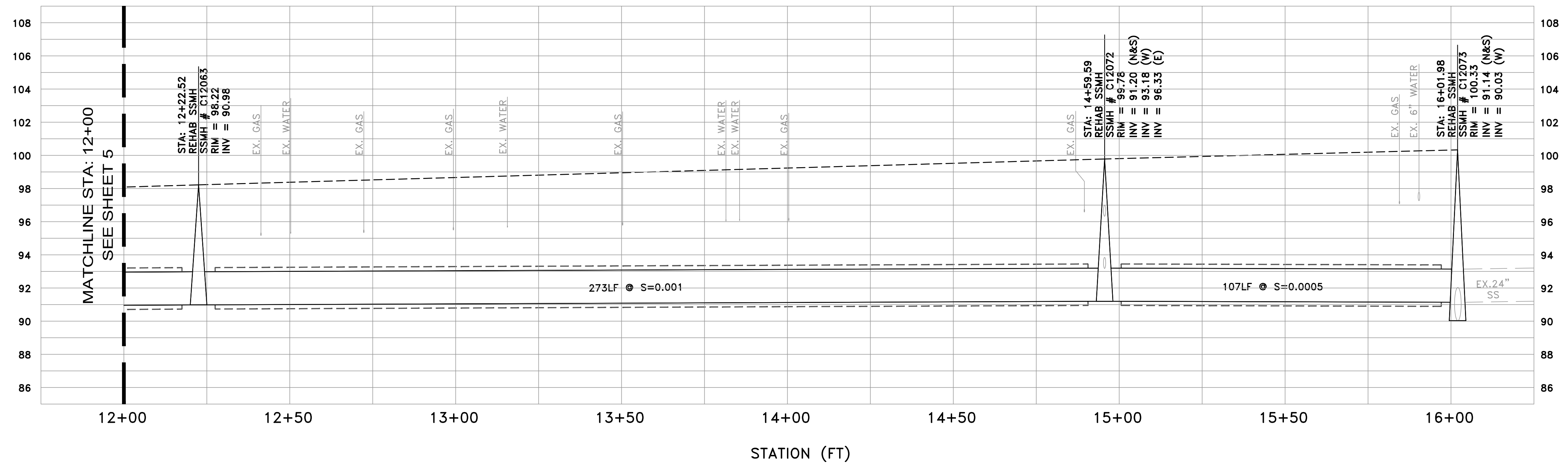
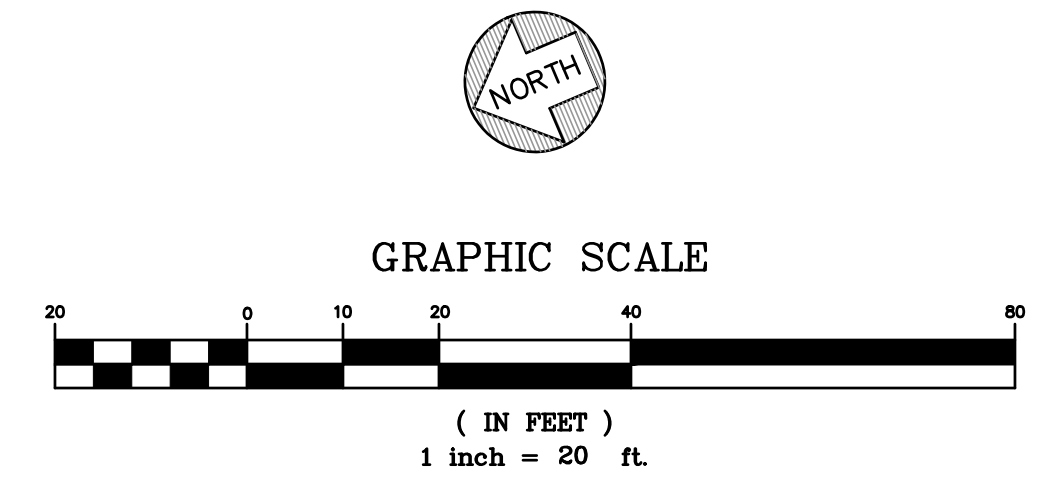
5

JOB NO.

1075



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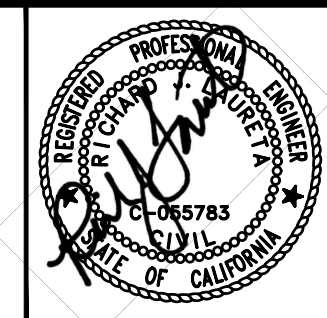
PROFILE VIEW  
 HORIZ: 1" = 20'  
 VERT: 1" = 4'

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BY	DATE	DESCRIPTION OF REVISIONS	APP'D

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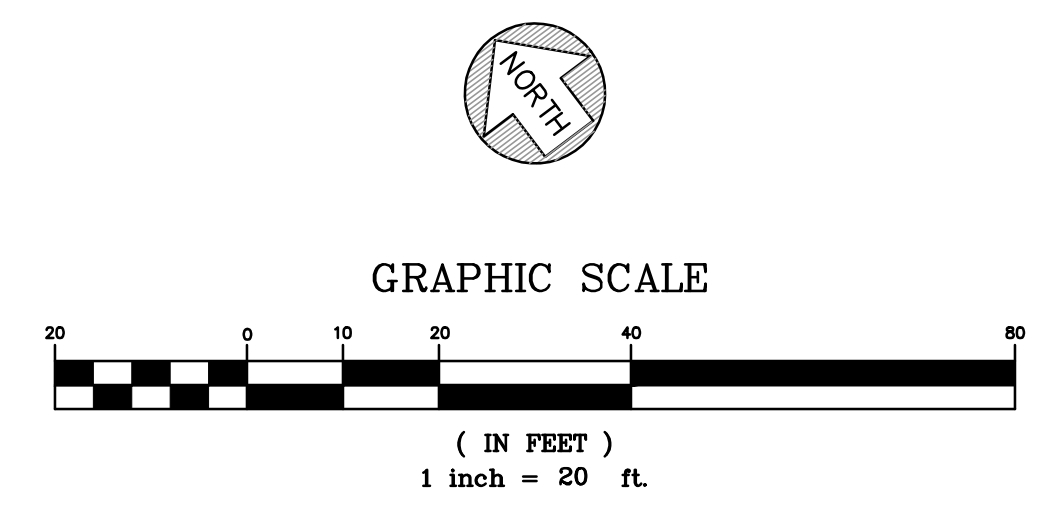
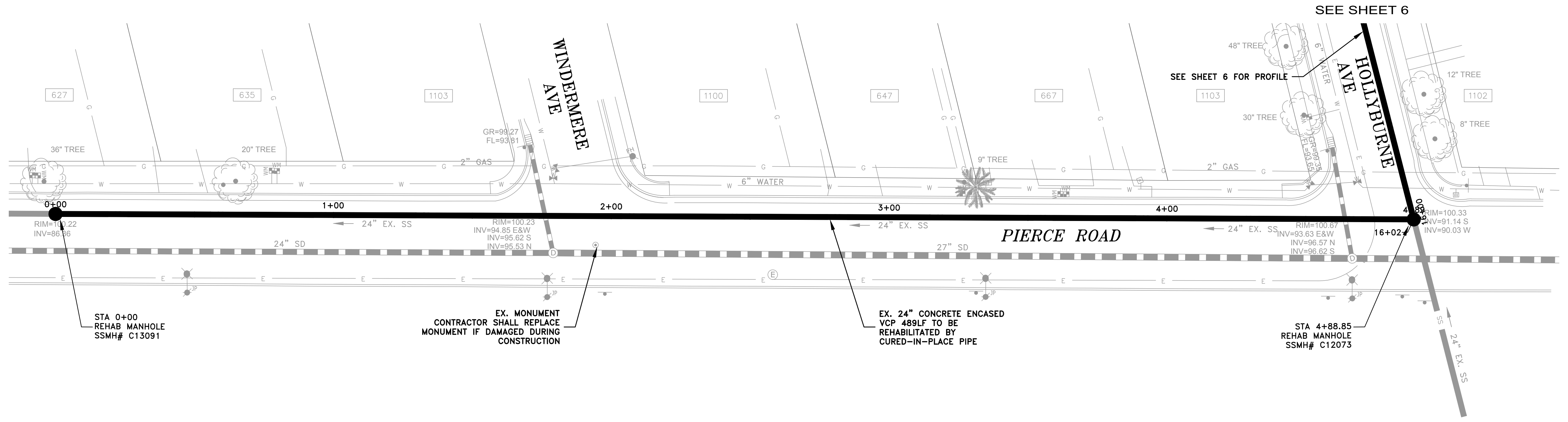
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**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY  
 PROJECT No. 1758.7



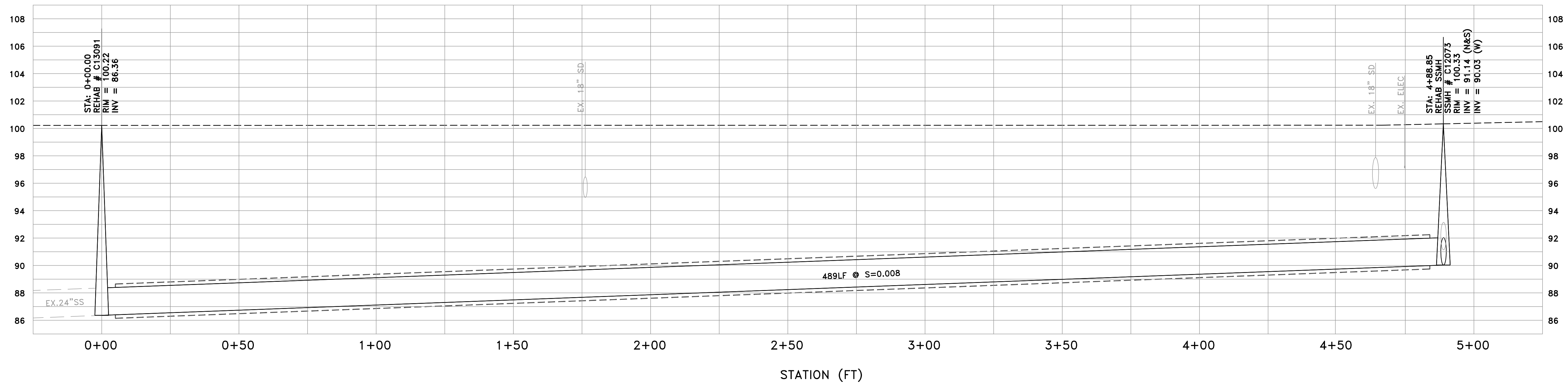
**BELLE HAVEN SEWER PROJECT PHASE III**  
**HOLLYBURNE AVENUE**  
**MENLO PARK, CALIFORNIA**

SHEET	6
JOB NO.	1075



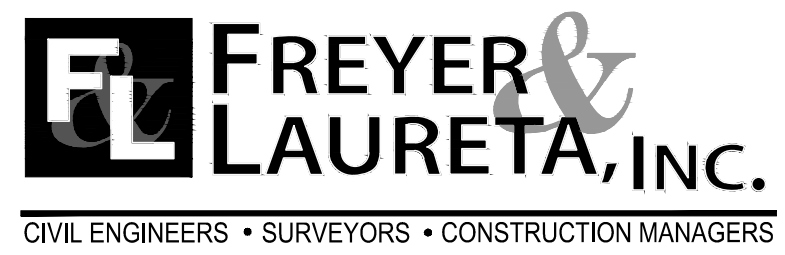
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**PROFILE VIEW**  
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 VERT: 1" = 4'

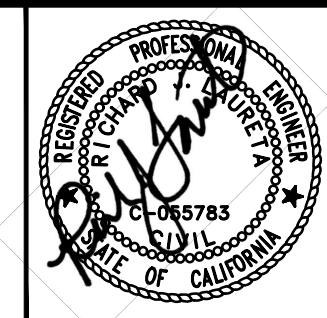
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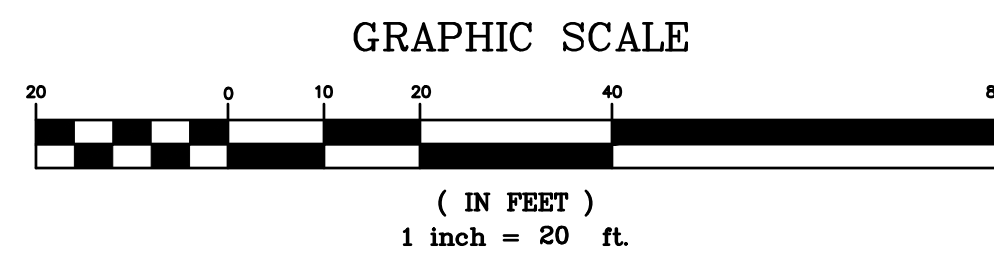
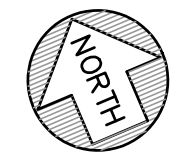
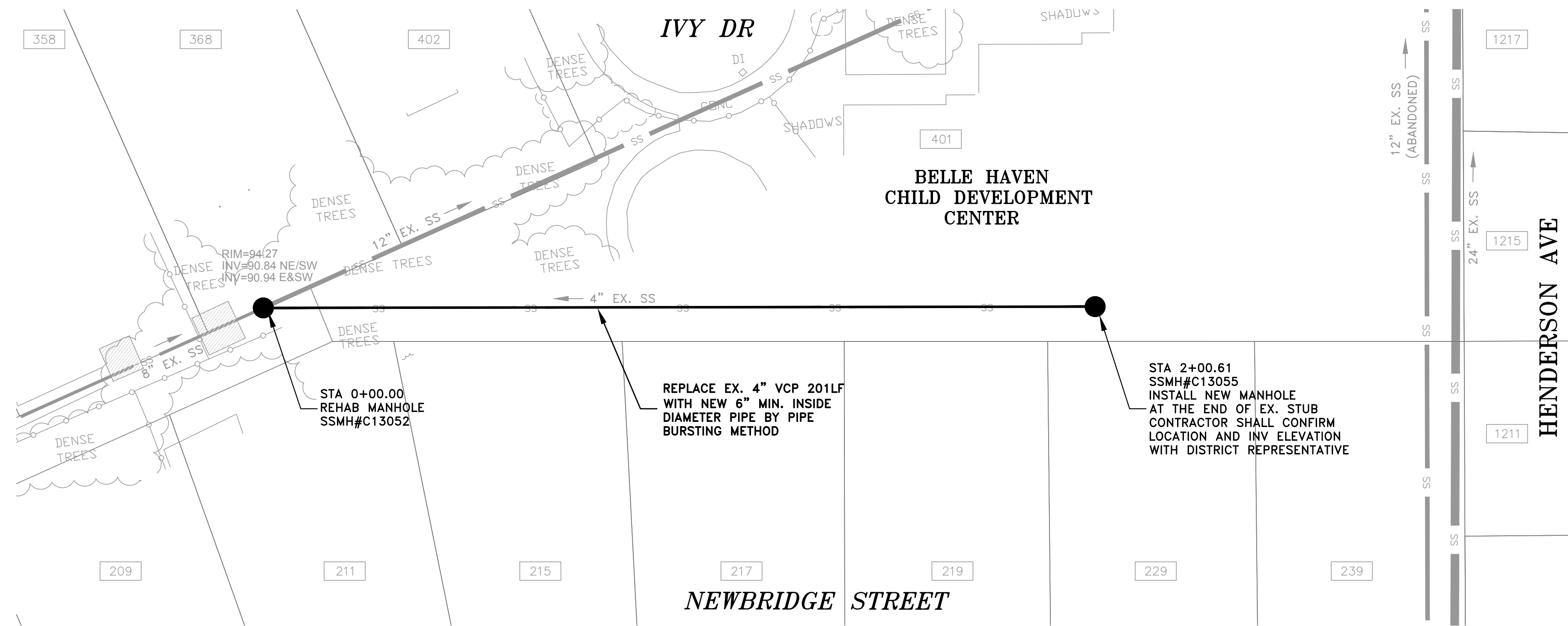
PROJECT No. 1758.7



**BELLE HAVEN SEWER PROJECT PHASE III**  
**PIERCE ROAD**  
**MENLO PARK, CALIFORNIA**

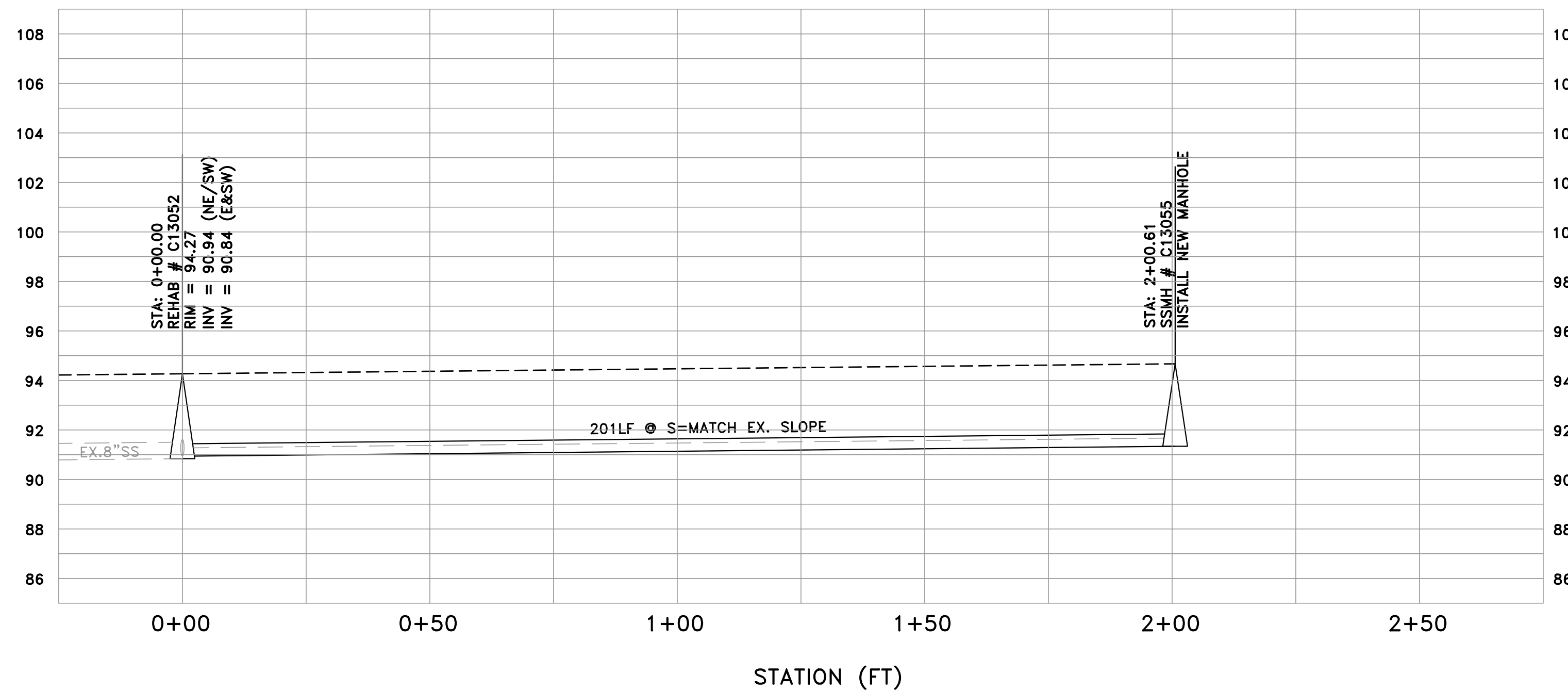
SHEET	7
JOB NO.	1075





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- 6) PRIOR TO WORK CONTRACTOR SHALL COORDINATE ALL WORK WITH CHILD DEVELOPMENT CENTER STAFF.



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

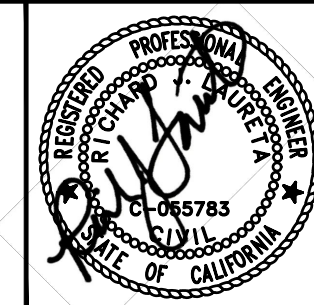
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**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY

PROJECT No. 1758.7



**BELLE HAVEN SEWER PROJECT PHASE III  
 EASEMENT (IVY/NEWBRIDGE)  
 MENLO PARK, CALIFORNIA**

SHEET  
**8**  
 JOB NO.  
**1075**

HENDERSON AVE

1363

1359

58

54

50

48

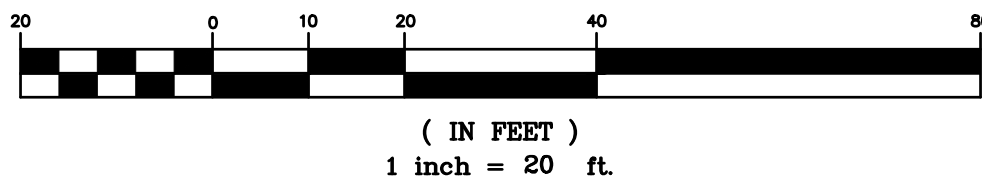
44

40

36



GRAPHIC SCALE



STA 1+20.54  
REHAB MANHOLE  
SSMH#B13018  
NOT FOUND IN FIELD  
CONTRACTOR SHALL LOCATE

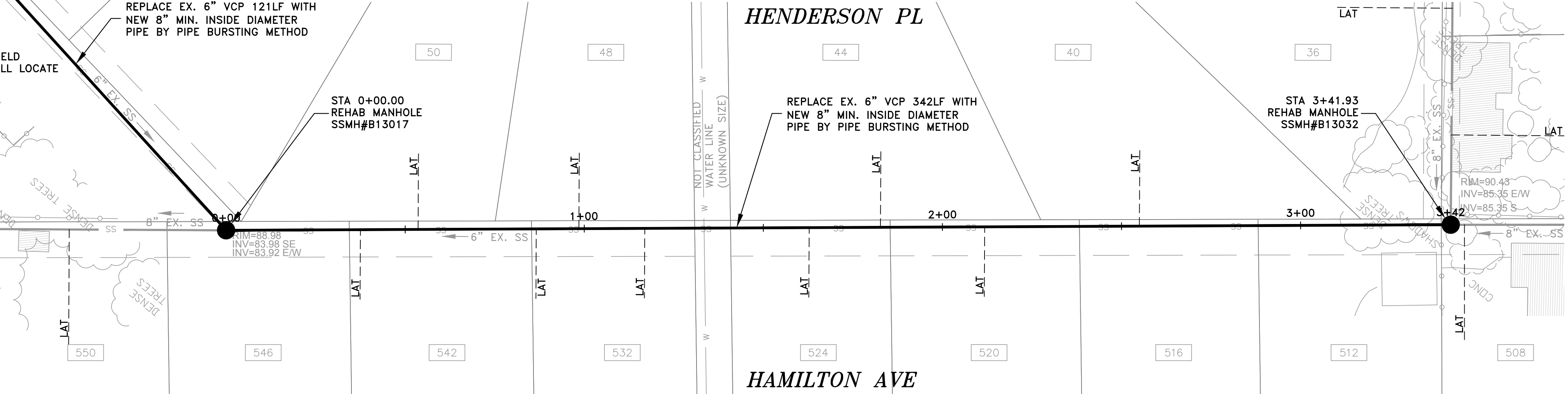
REPLACE EX. 6" VCP 121LF WITH  
NEW 8" MIN. INSIDE DIAMETER  
PIPE BY PIPE BURSTING METHOD

STA 0+00.00  
REHAB MANHOLE  
SSMH#B13017

HENDERSON PL

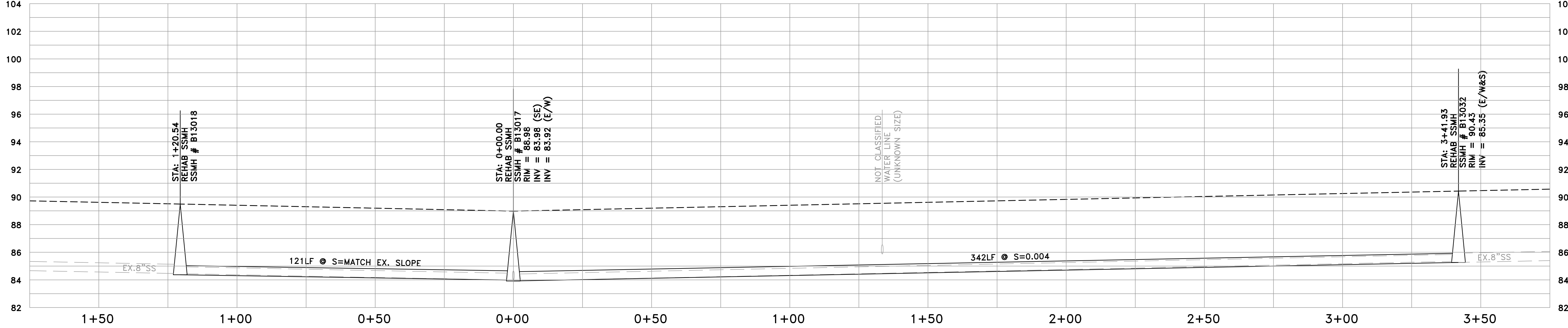
REPLACE EX. 6" VCP 342LF WITH  
NEW 8" MIN. INSIDE DIAMETER  
PIPE BY PIPE BURSTING METHOD

STA 3+41.93  
REHAB MANHOLE  
SSMH#B13032



NOTES:

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STATION (FT) - EASEMENT(HENDERSON PL/HAMILTON)

PROFILE VIEW  
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VERT: 1" = 4'

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BY	DATE	DESCRIPTION OF REVISIONS	APP'D

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**WEST BAY**  
SANITARY DISTRICT  
SAN MATEO COUNTY

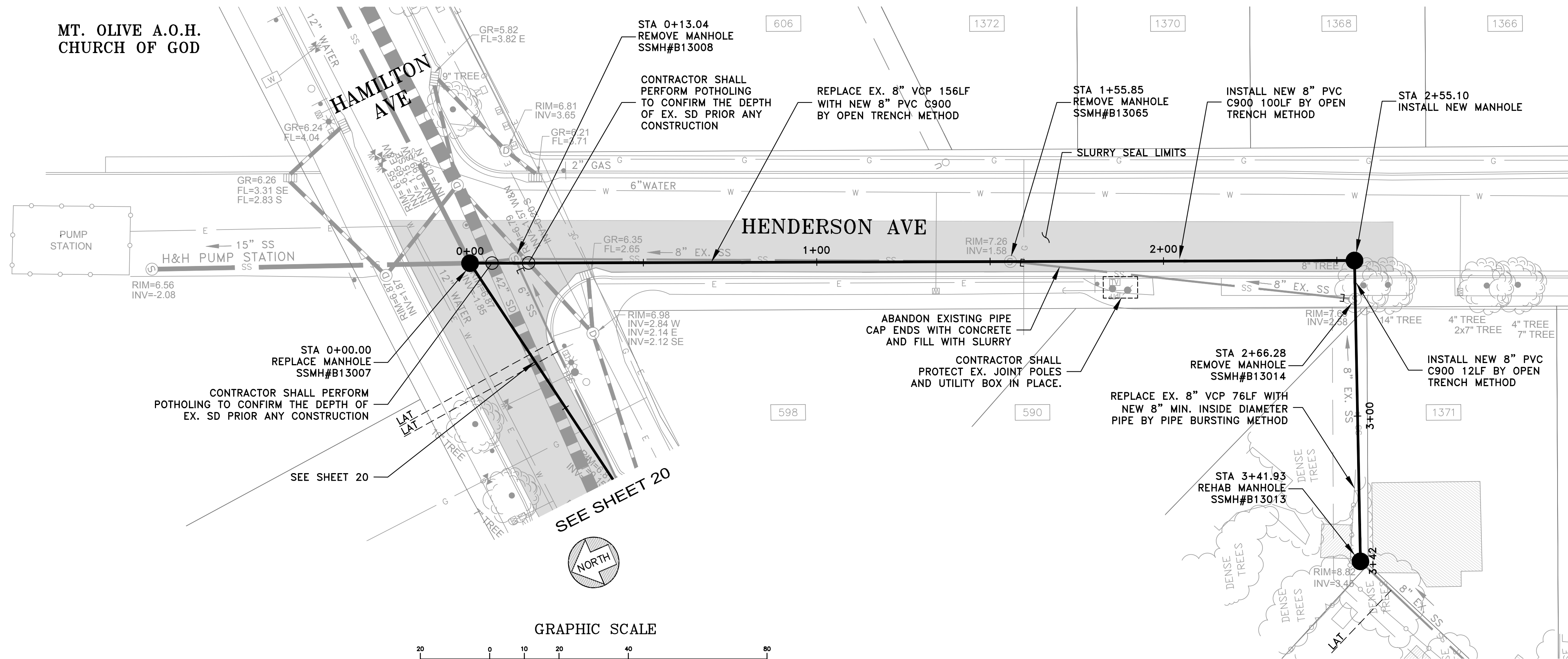
PROJECT No. 1758.7



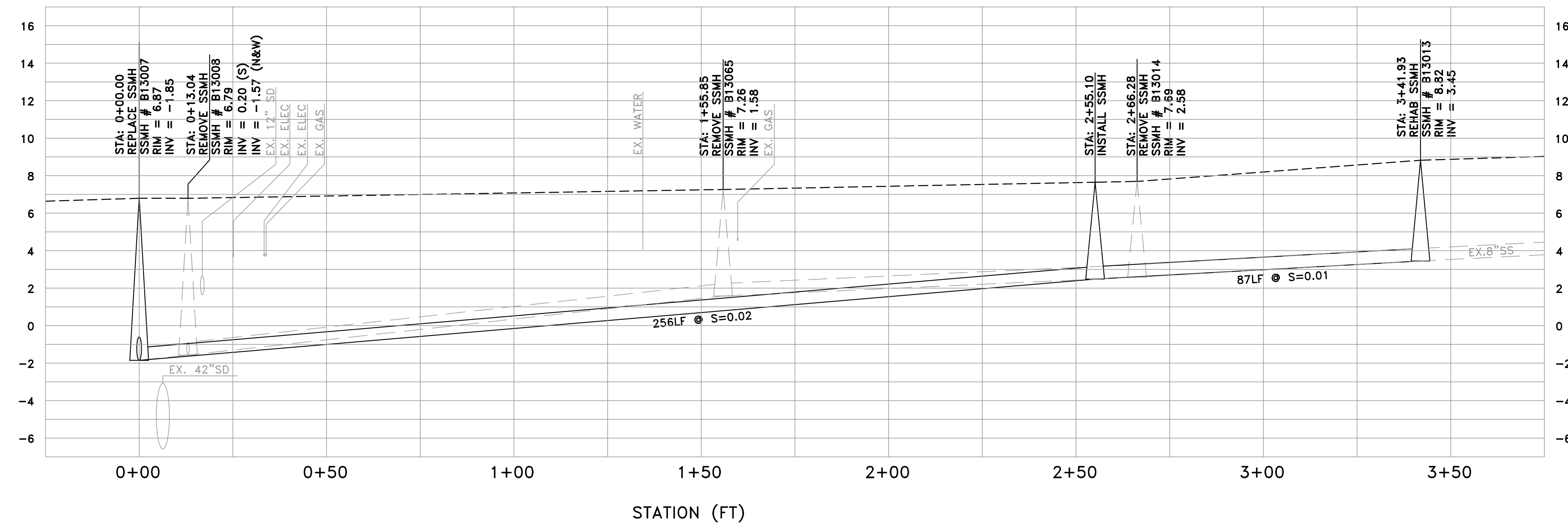
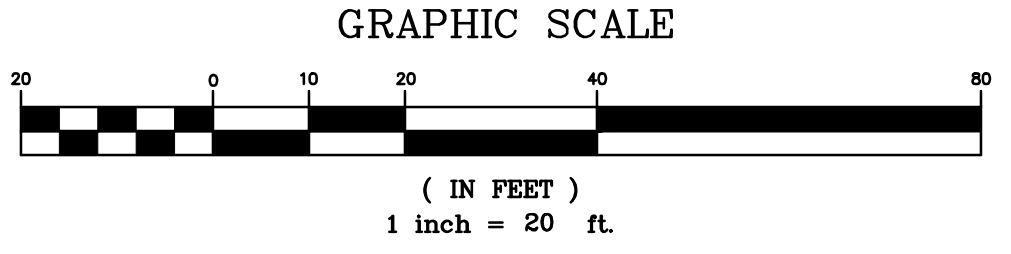
**BELLE HAVEN SEWER PROJECT PHASE III**  
**EASEMENT (HENDERSON PL/HAMILTON)**  
**MENLO PARK, CALIFORNIA**

SHEET  
**9**  
JOB NO.  
**1075**

MT. OLIVE A.O.H.  
CHURCH OF GOD



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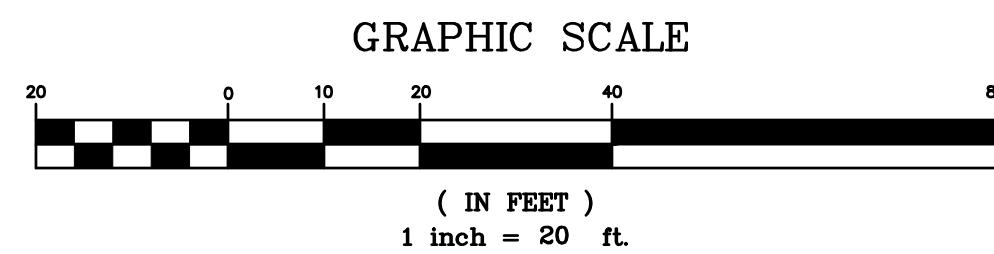
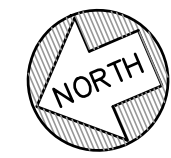
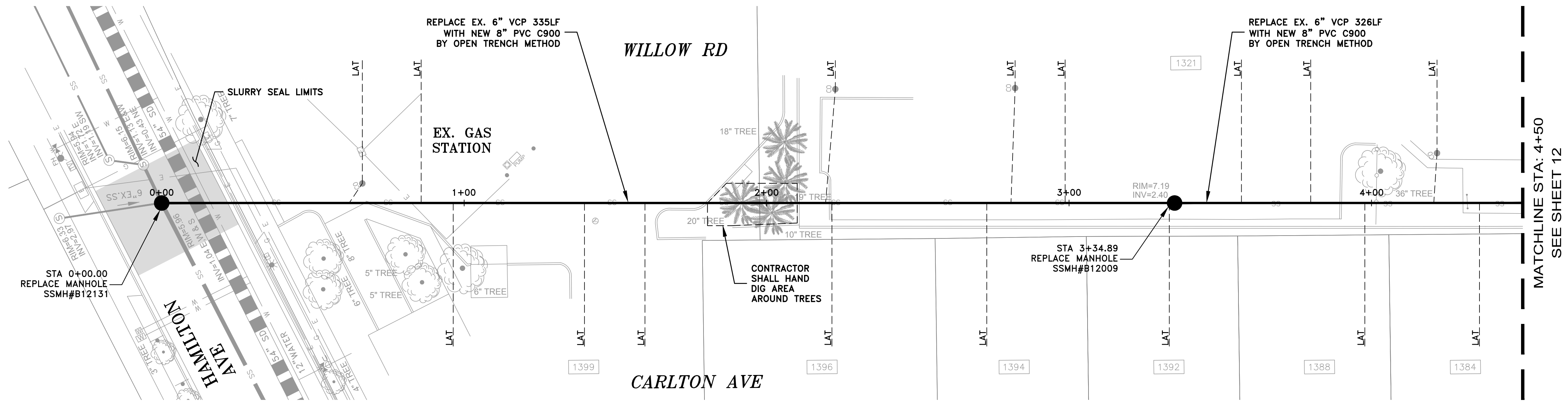
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**WEST BAY**  
SANITARY DISTRICT  
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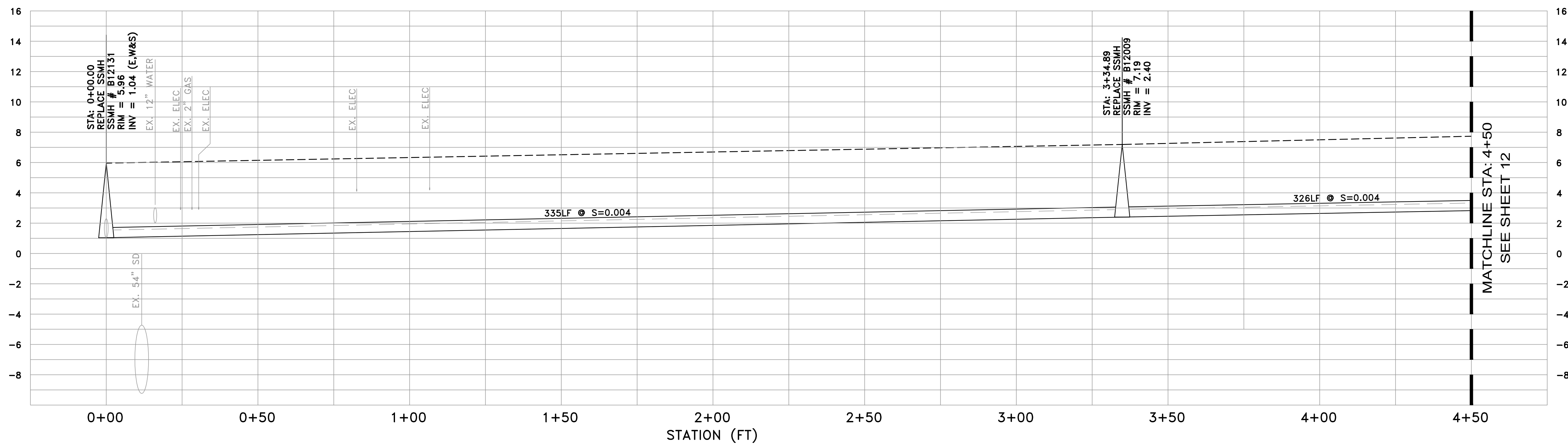
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SHEET  
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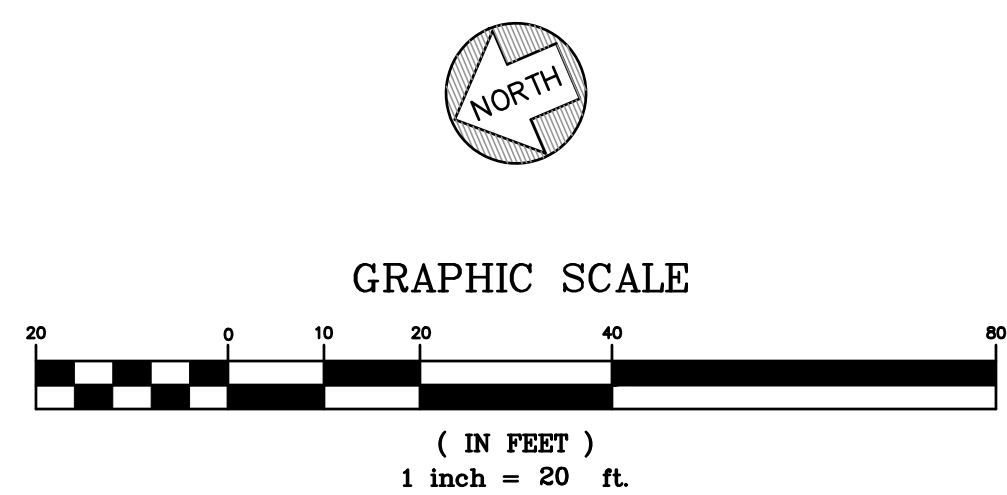
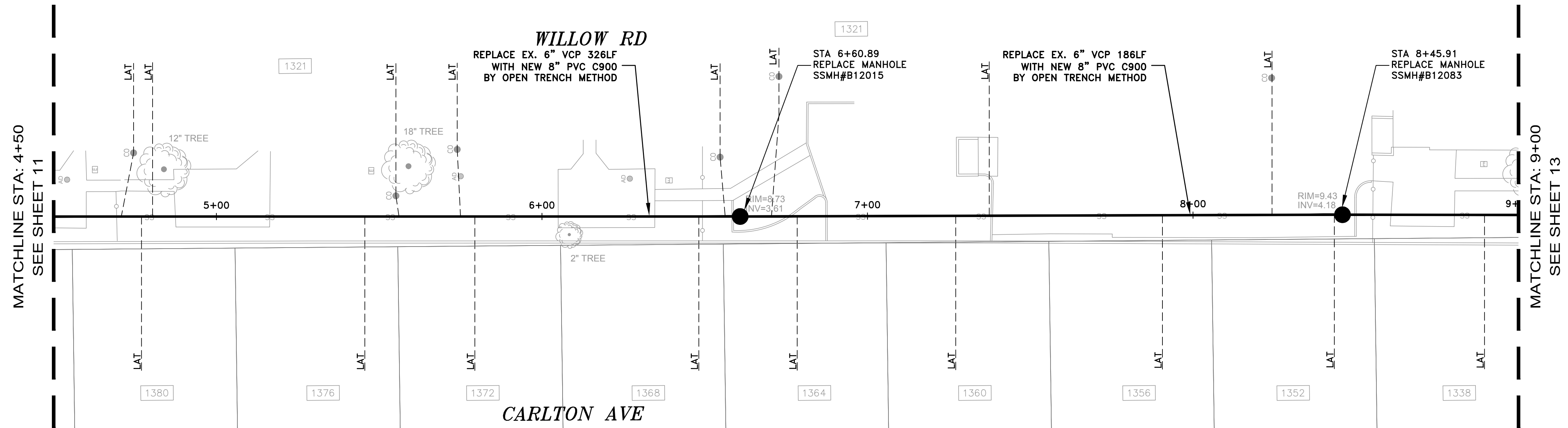
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**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY  
 PROJECT No. 1758.7



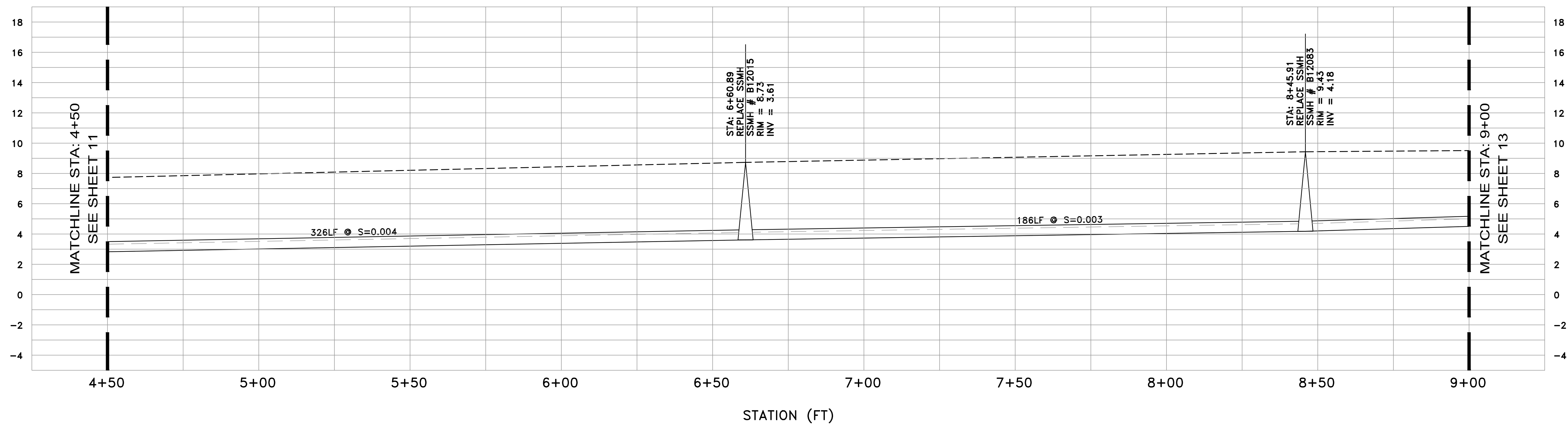
**BELLE HAVEN SEWER PROJECT PHASE III**  
**WILLOW ALLEY**  
**MENLO PARK, CALIFORNIA**

SHEET	11
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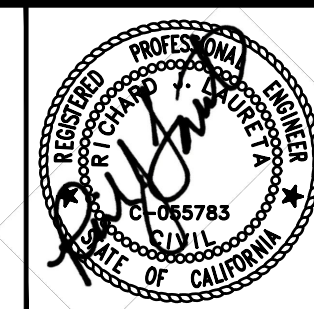
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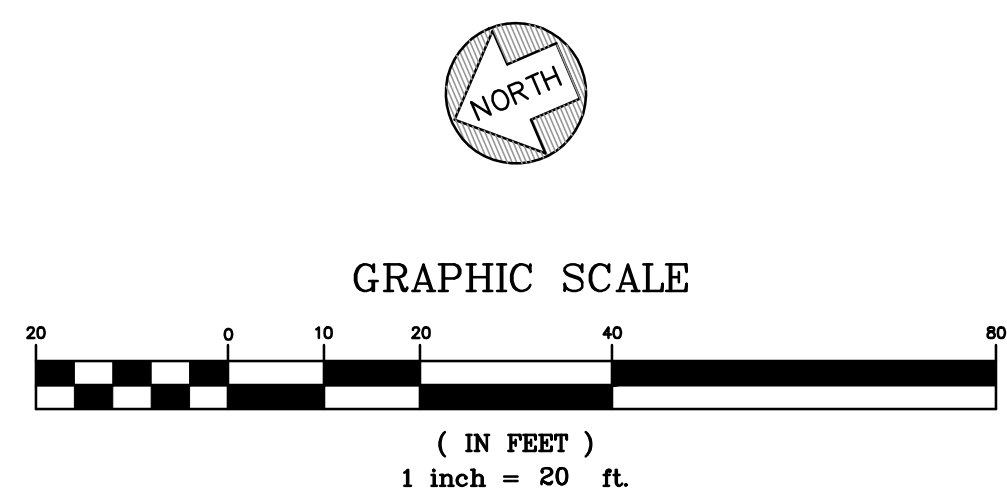
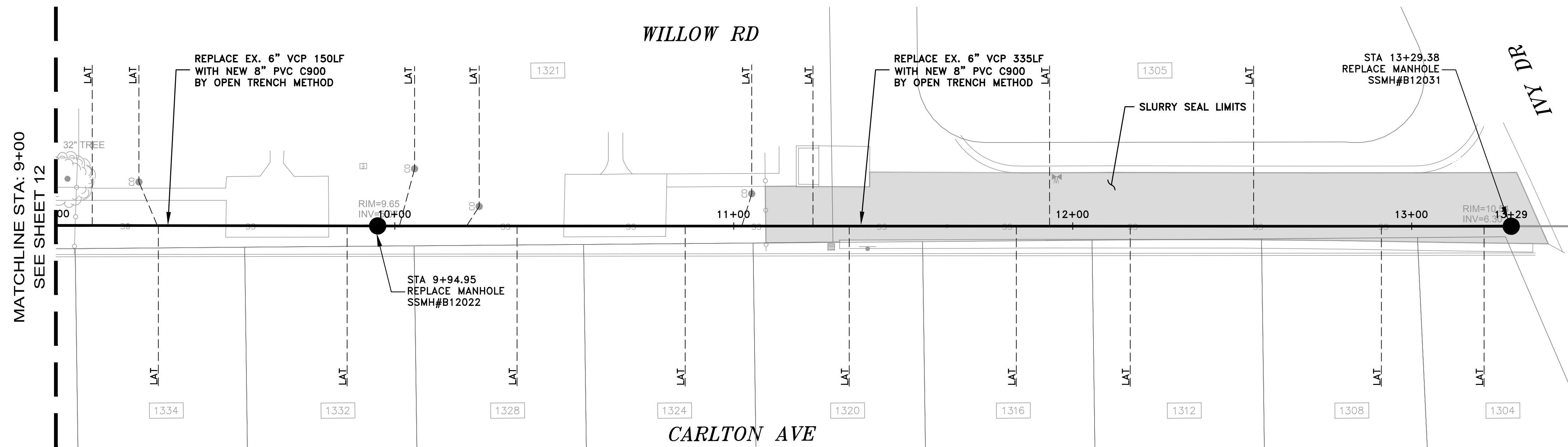
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**BELLE HAVEN SEWER PROJECT PHASE III**  
**WILLOW ALLEY**  
**MENLO PARK, CALIFORNIA**

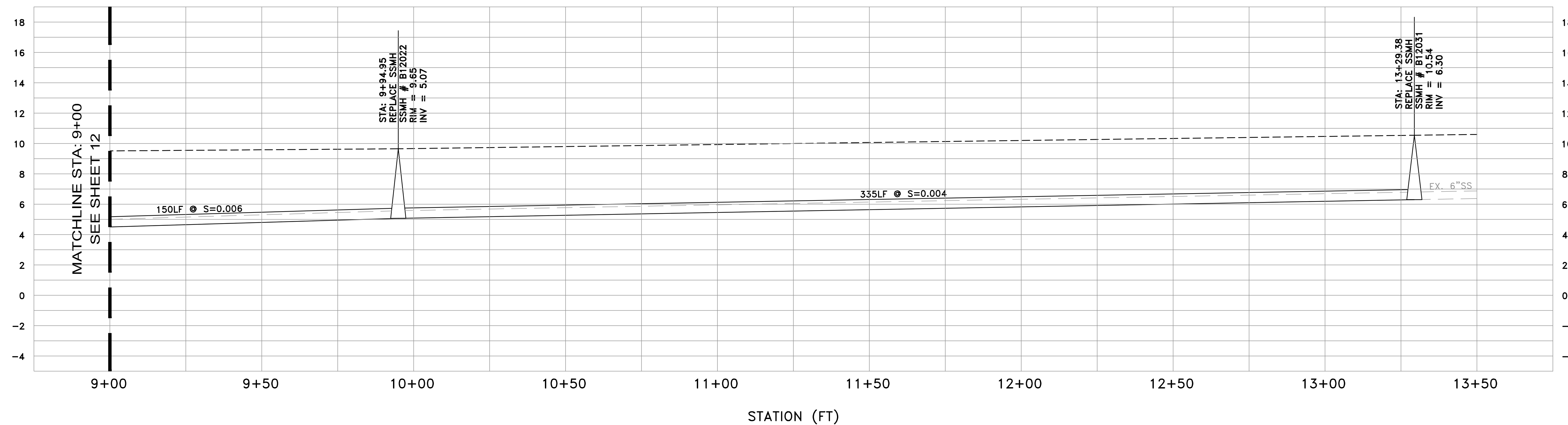
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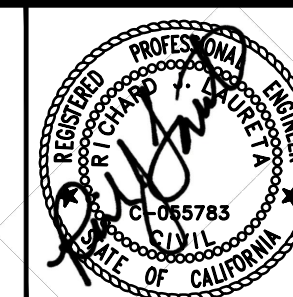
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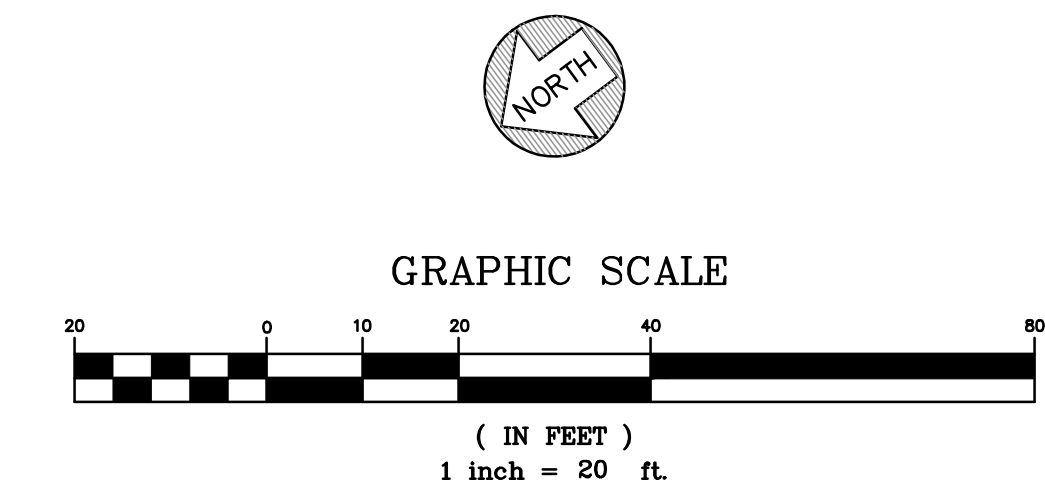
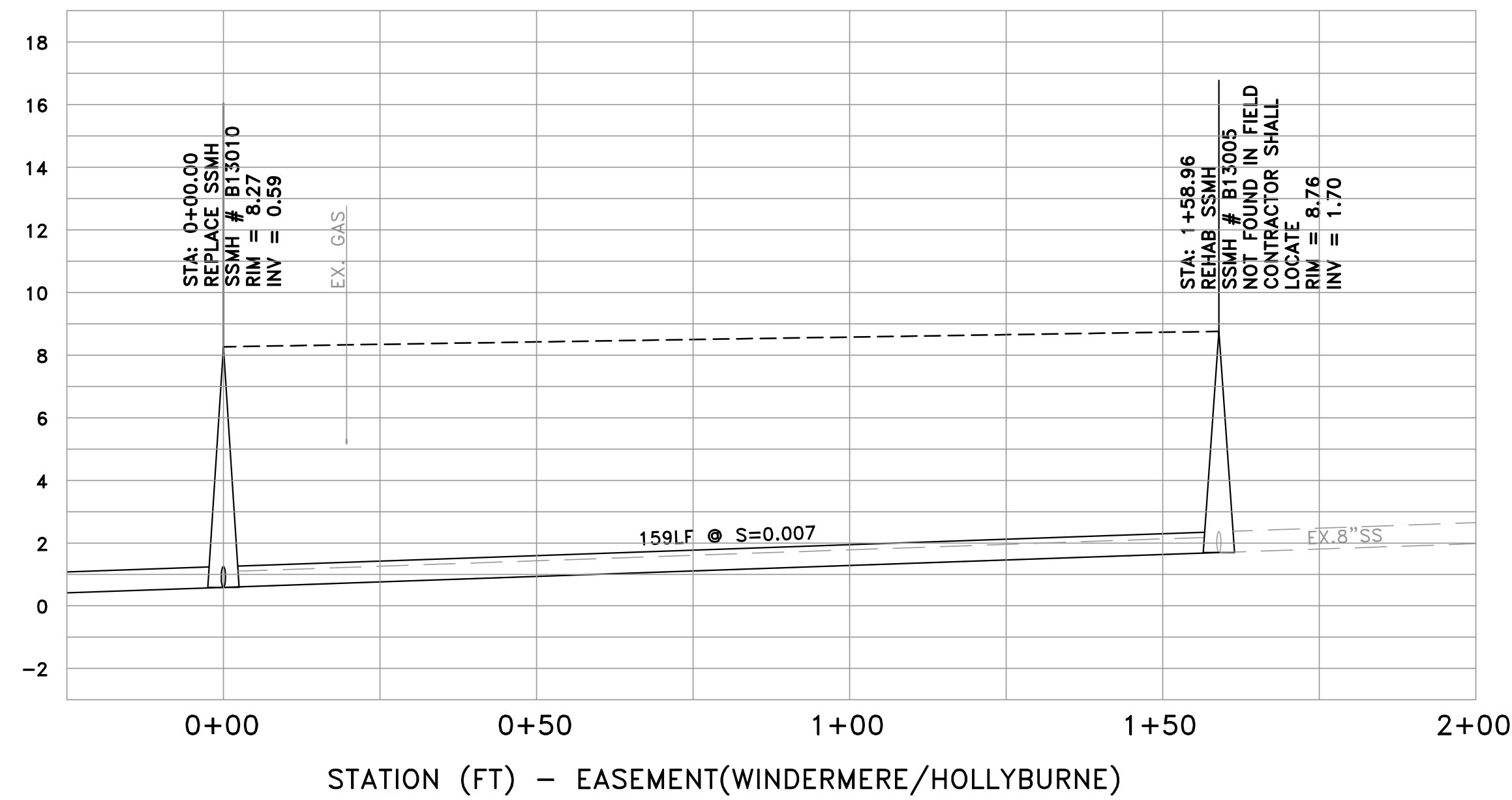
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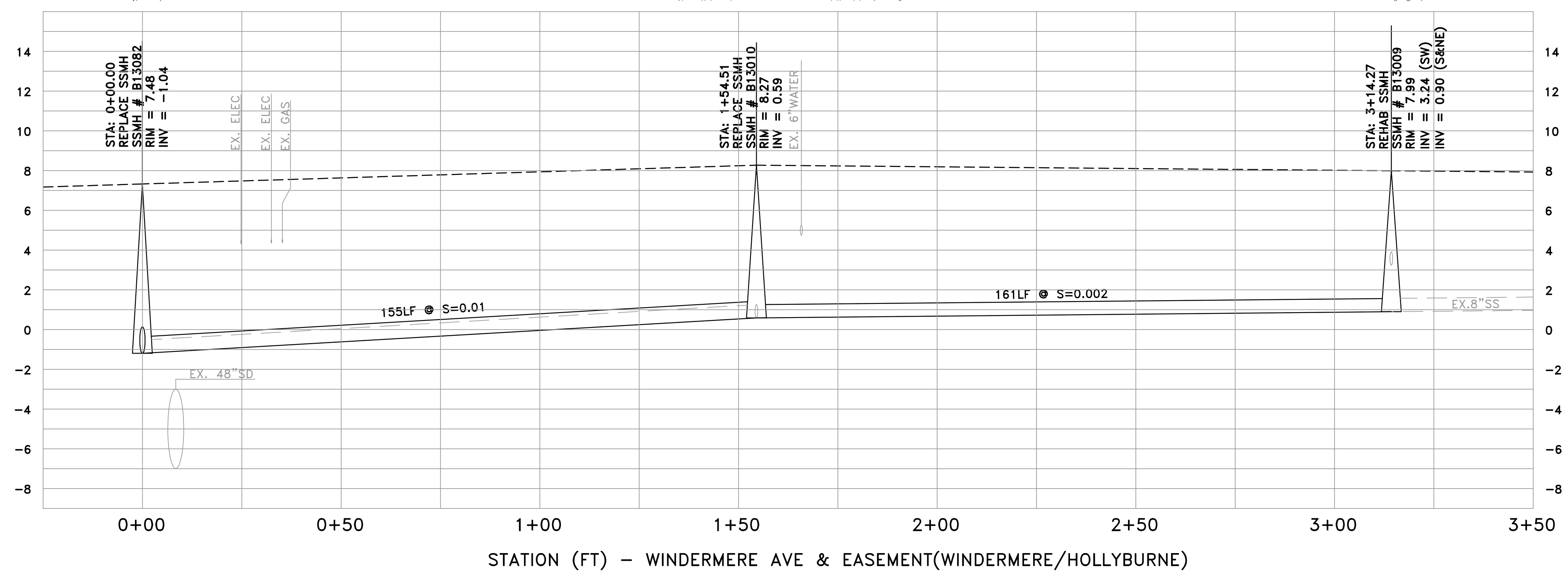
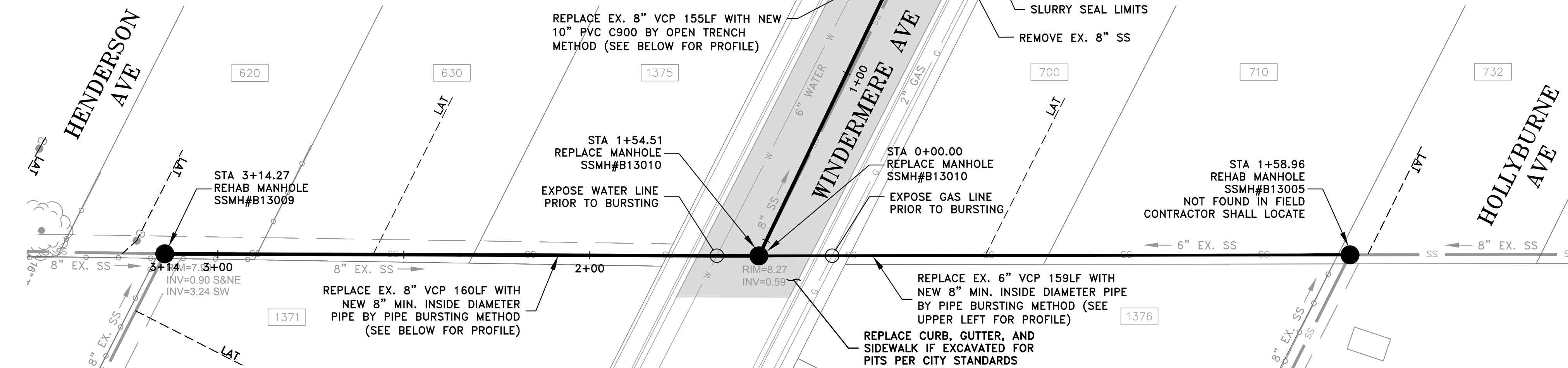
**BELLE HAVEN SEWER PROJECT PHASE III**  
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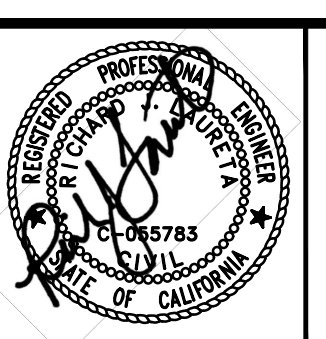


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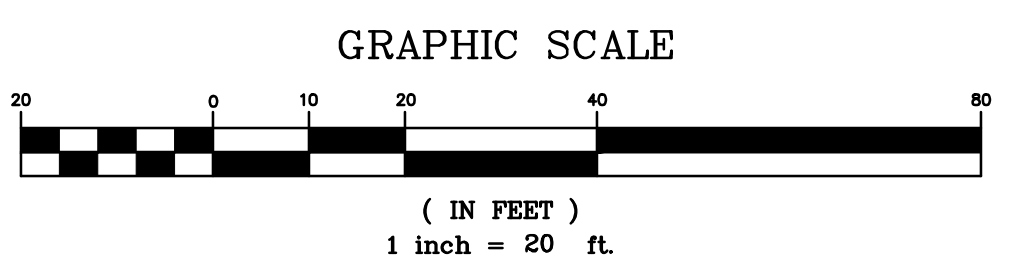
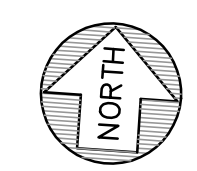
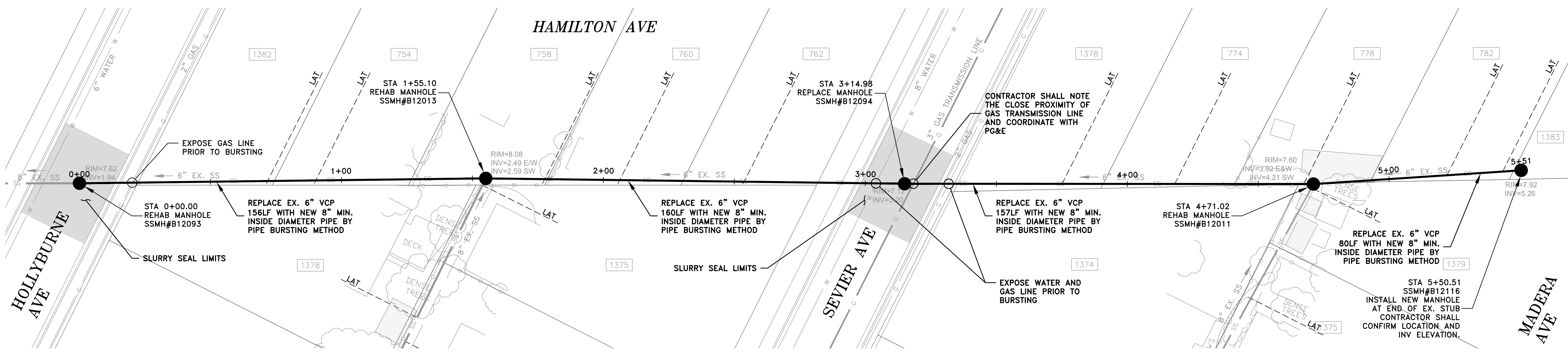


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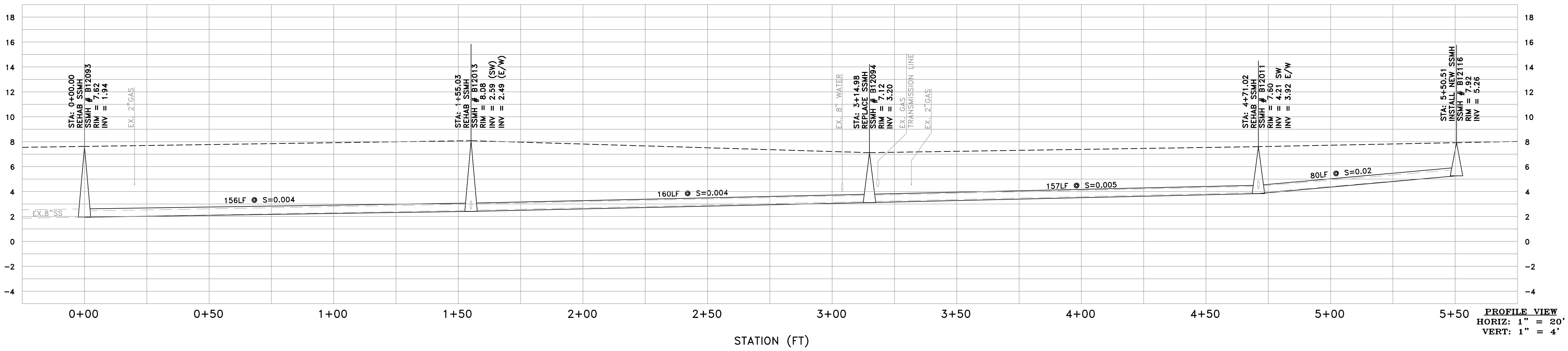
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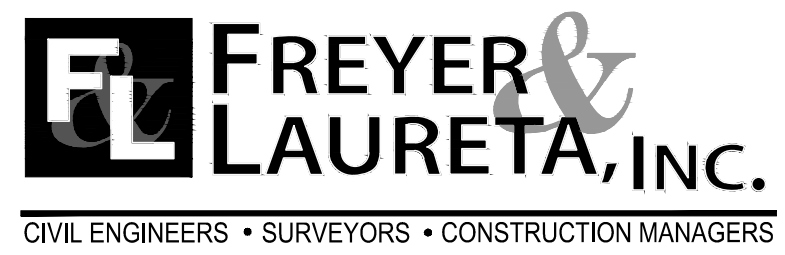


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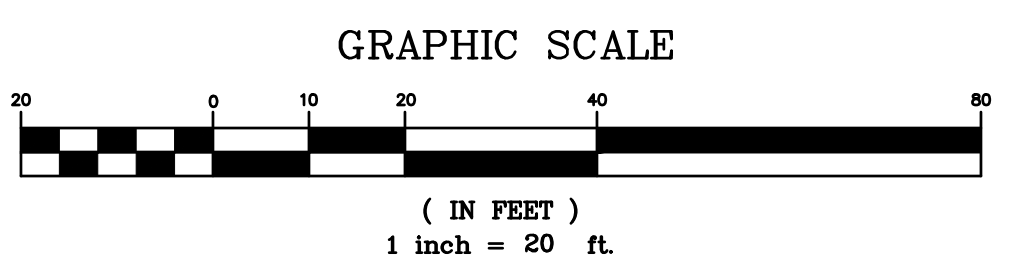
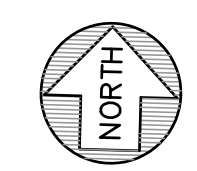
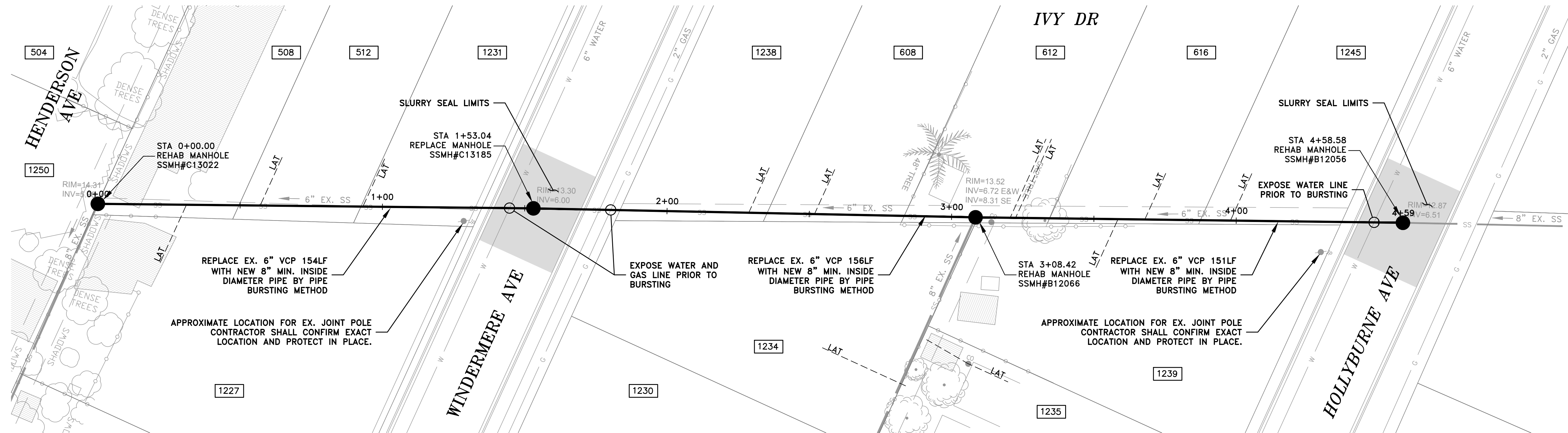
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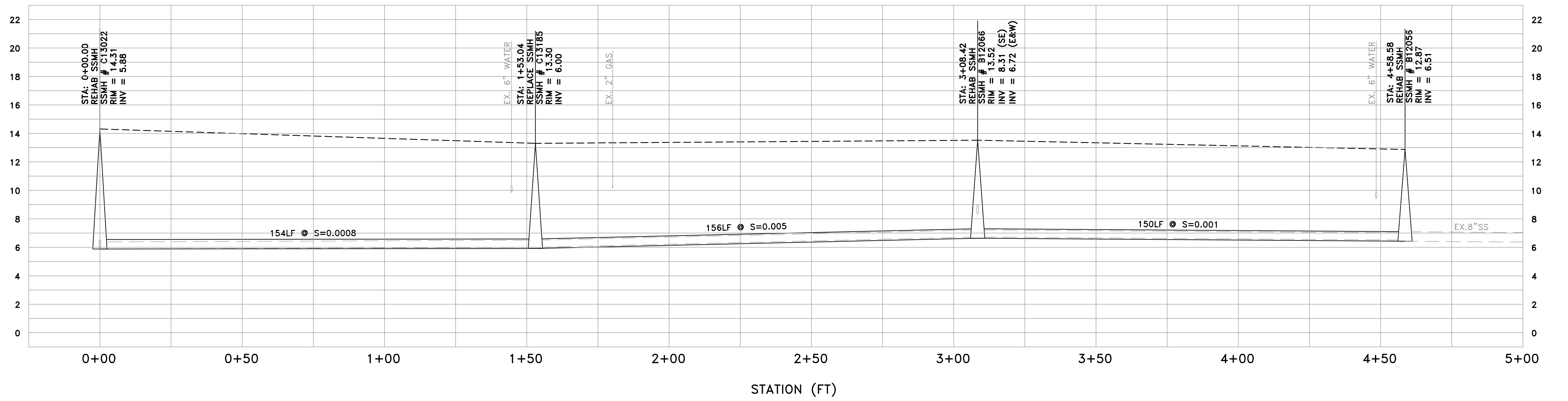
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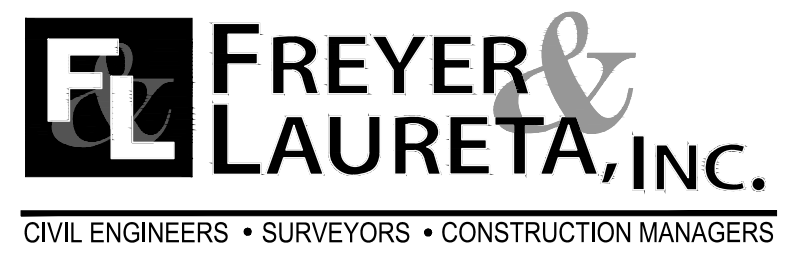
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BY	DATE	DESCRIPTION OF REVISIONS	APP'D

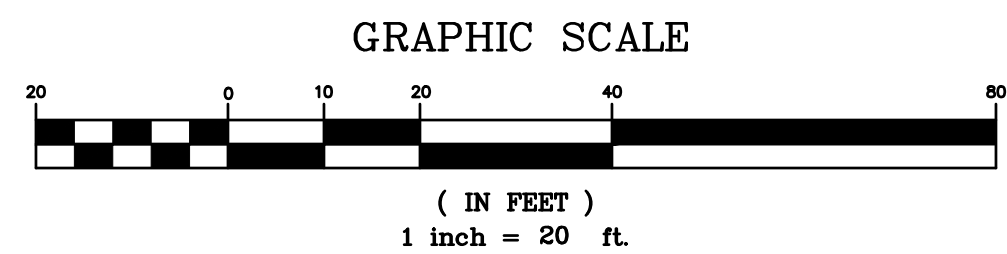
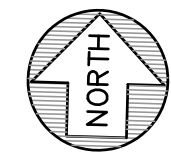
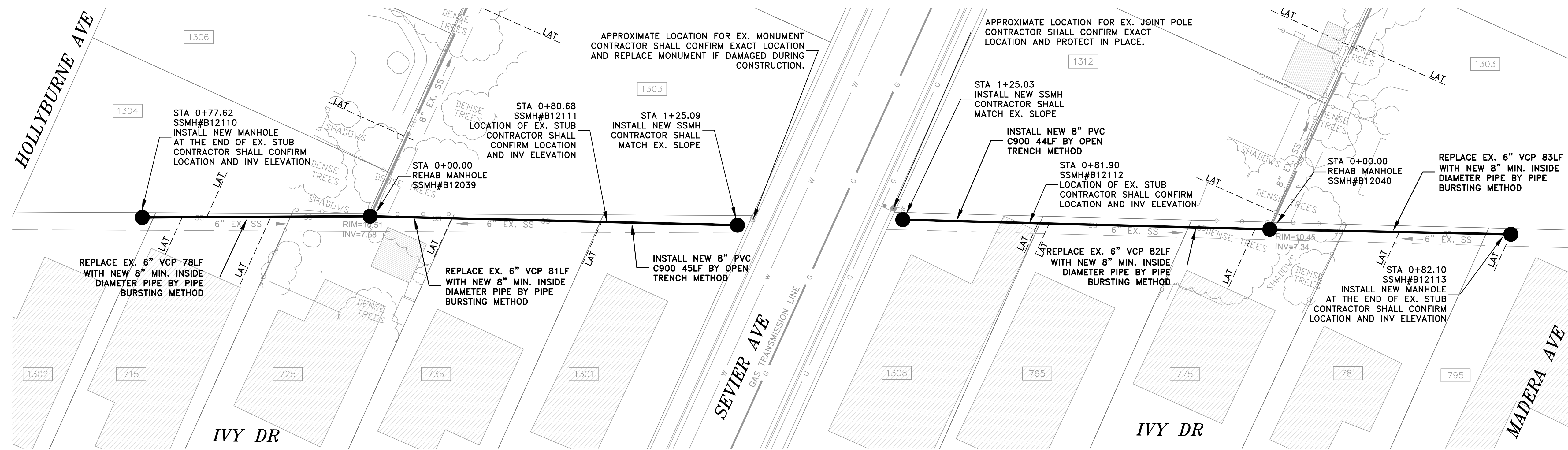


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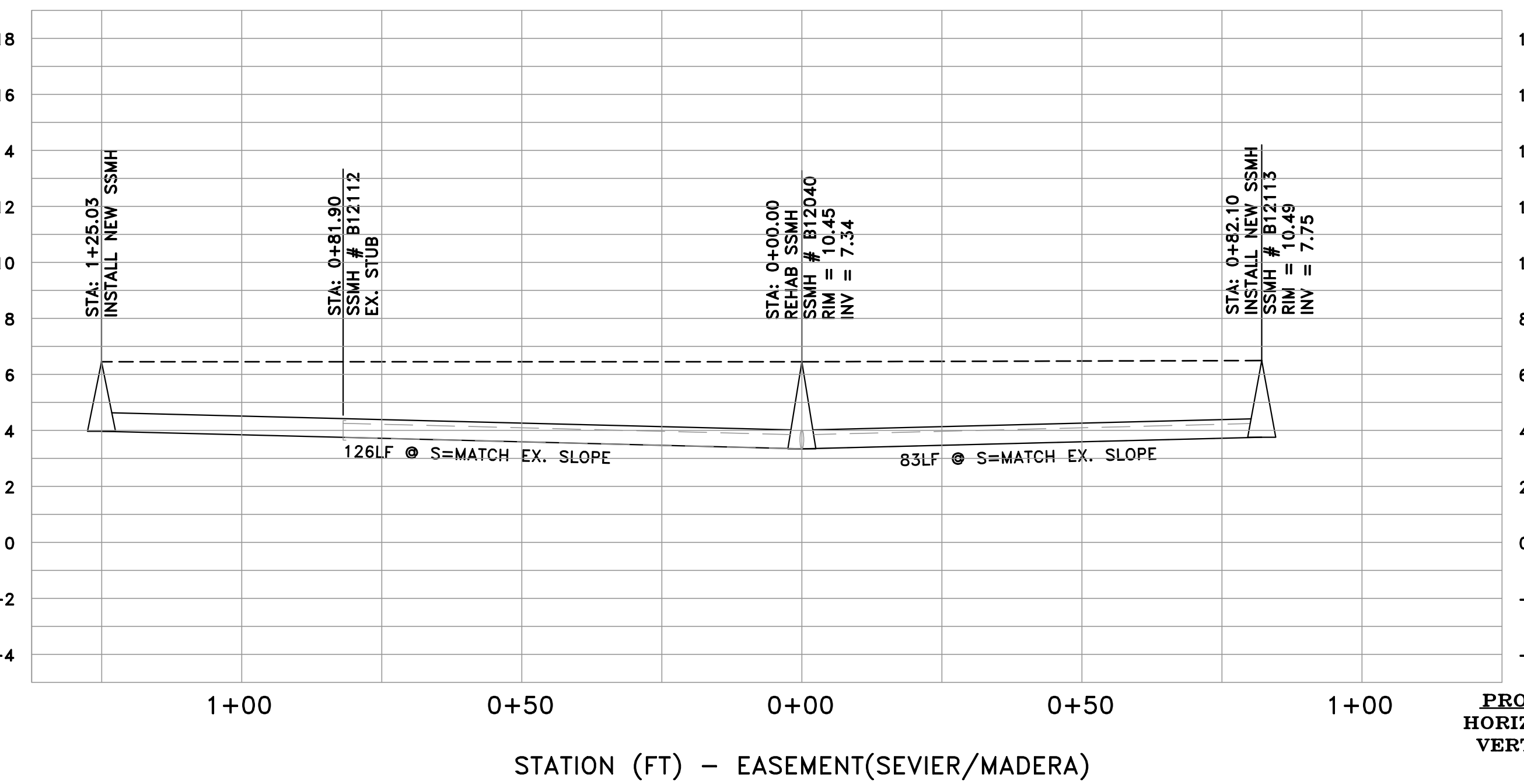
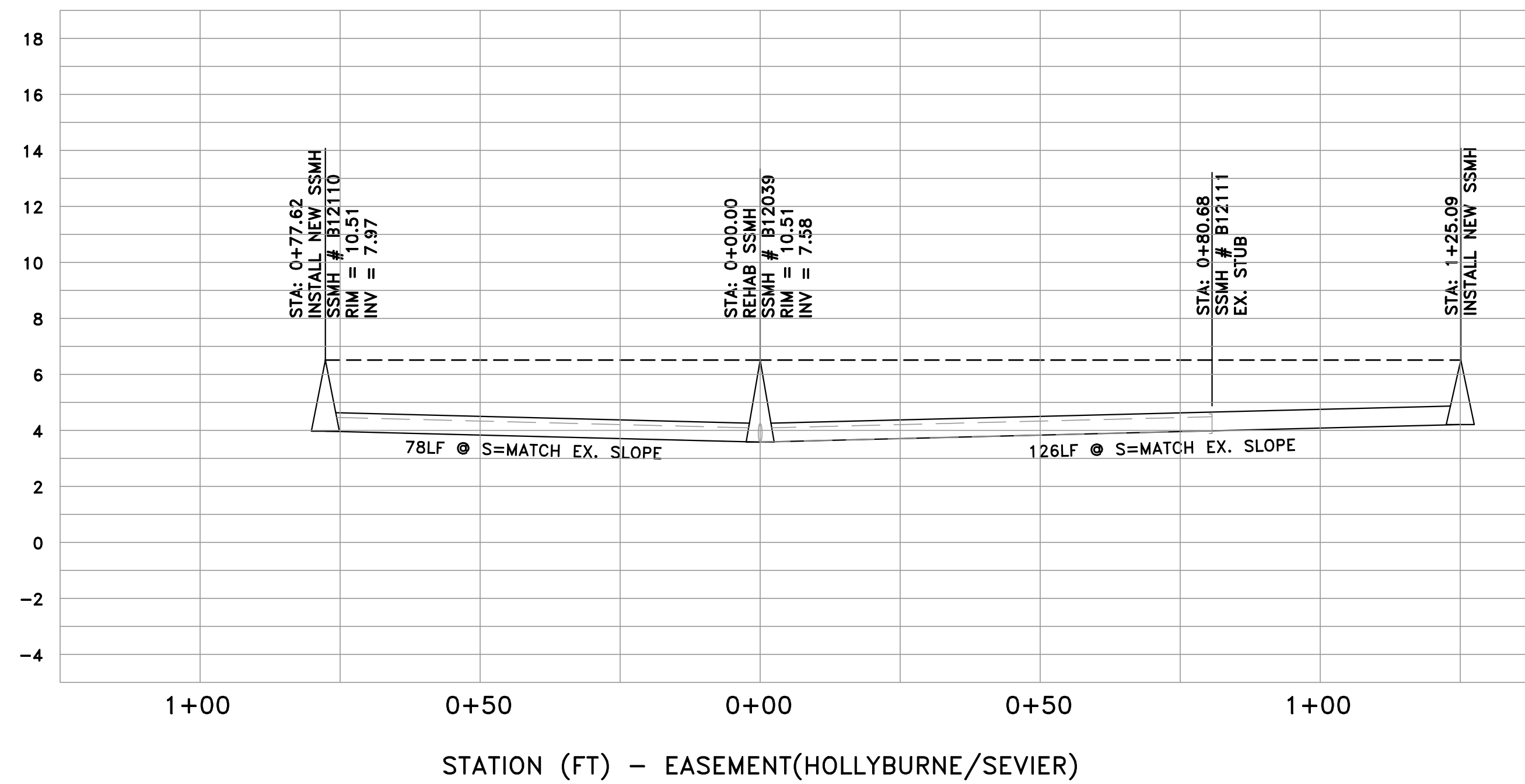
**BELLE HAVEN SEWER PROJECT PHASE III**  
**EASEMENT (HENDERSON/WINDERMERE/HOLLYBURNE)**  
**MENLO PARK, CALIFORNIA**

SHEET  
**16**  
 JOB NO.  
**1075**



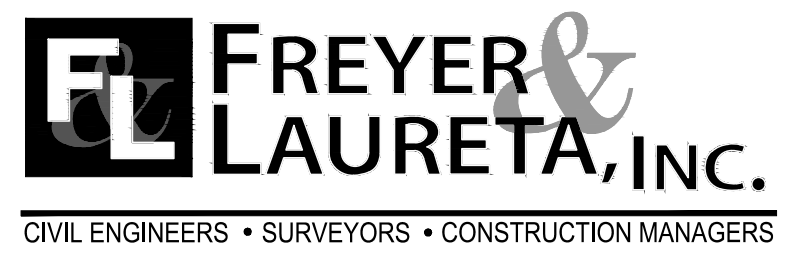
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PROFILE VIEW  
HORIZ: 1" = 20'  
VERT: 1" = 4'

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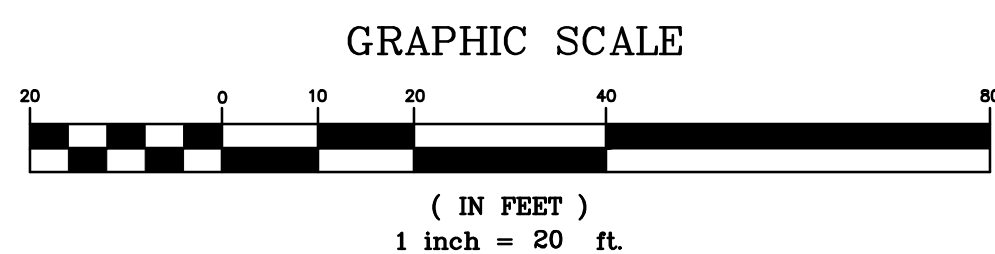
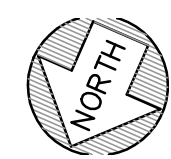
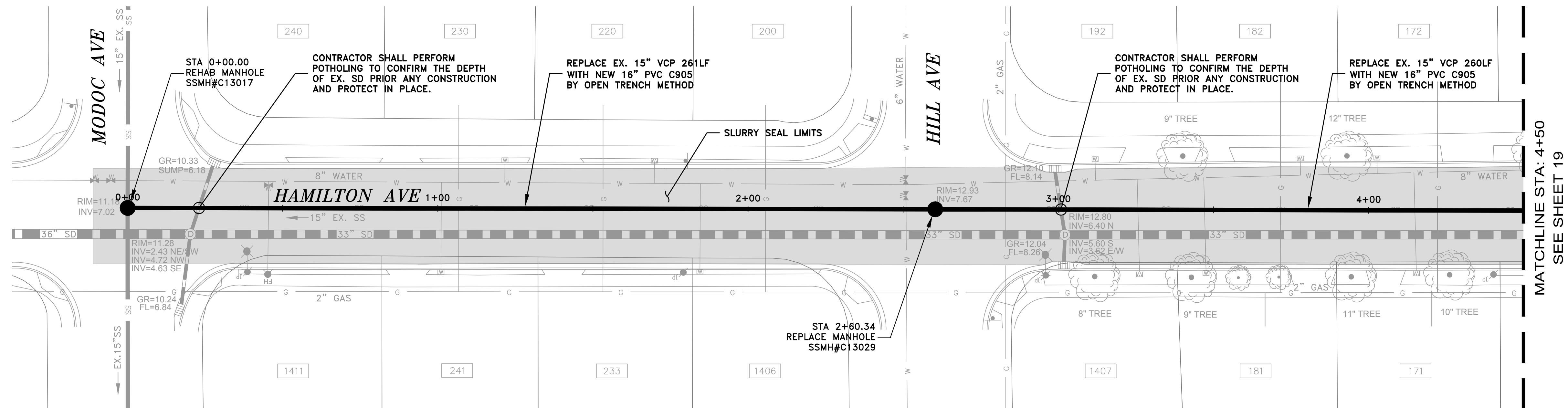


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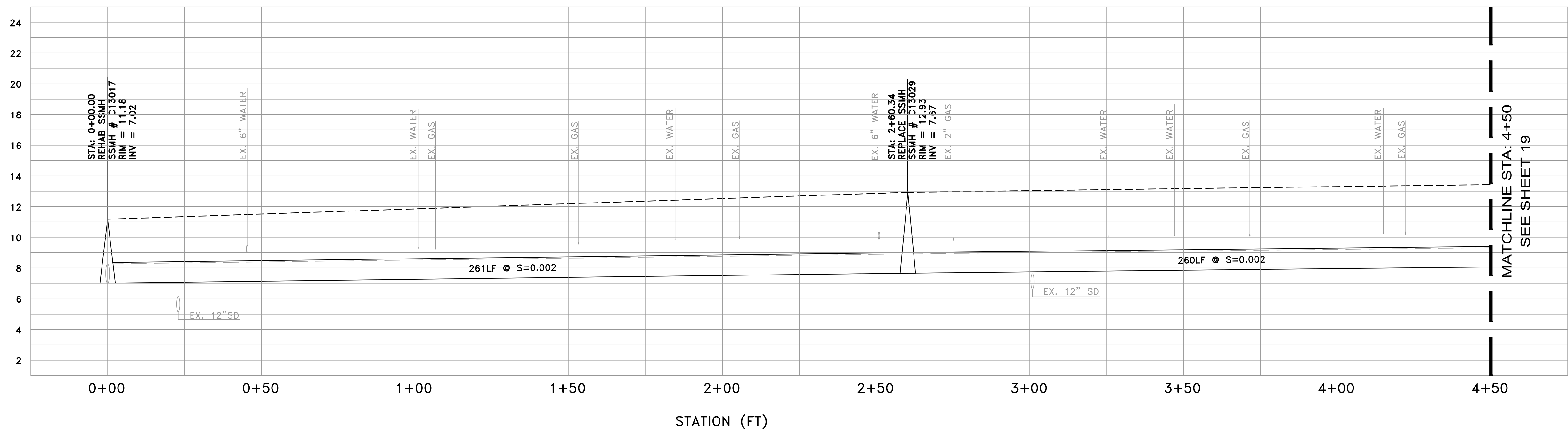
**BELLE HAVEN SEWER PROJECT PHASE III  
EASEMENT (HOLLYBURNE/SEVIER/MADERA)  
MENLO PARK, CALIFORNIA**

SHEET  
17  
JOB NO.  
1075



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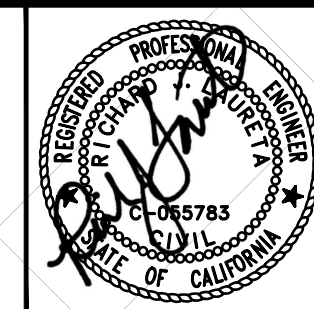
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**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY

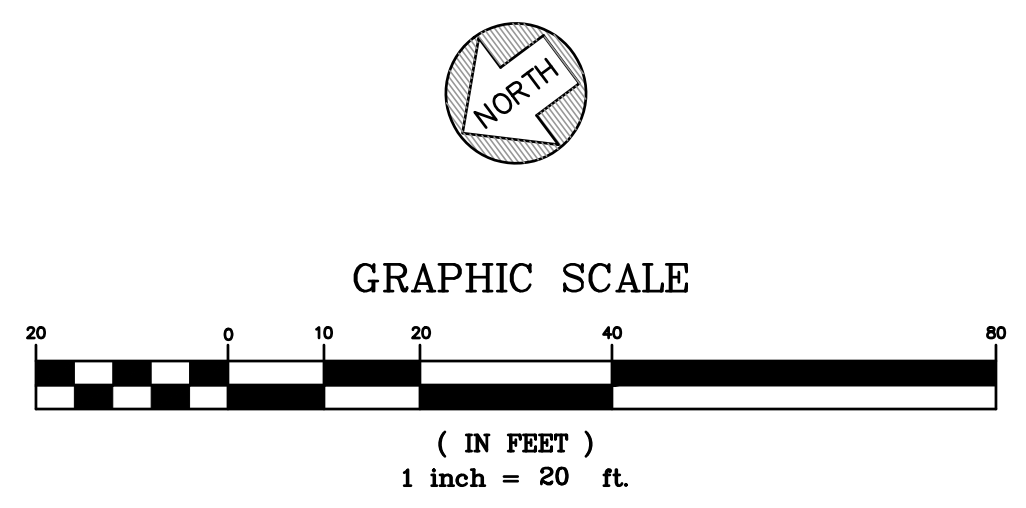
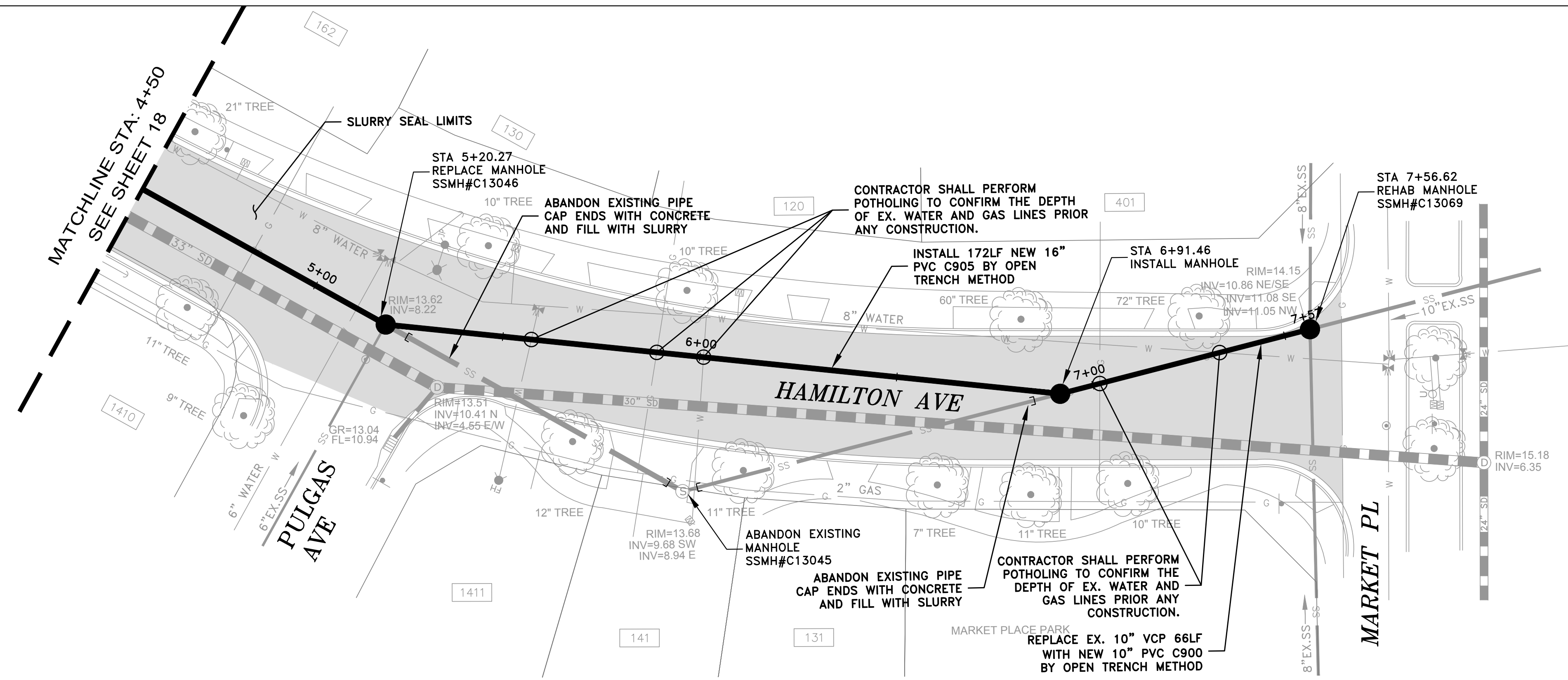
PROJECT No. 1758.7



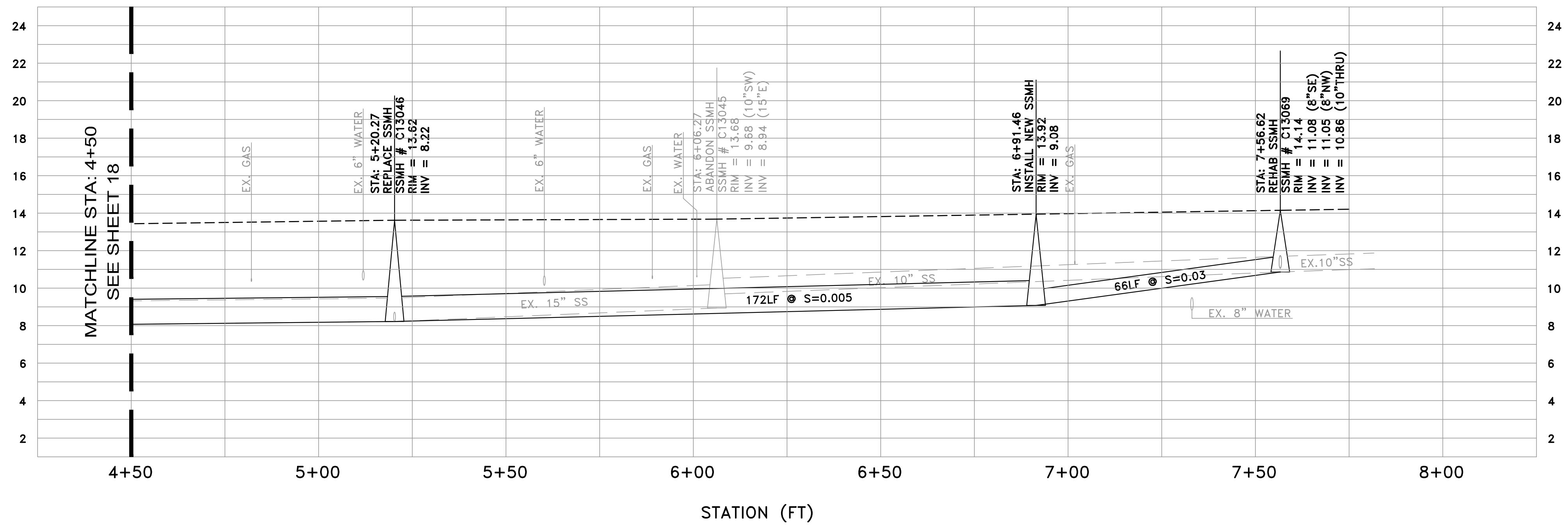
**BELLE HAVEN SEWER PROJECT PHASE III**  
**HAMILTON AVENUE**  
**MENLO PARK, CALIFORNIA**

SHEET  
 18

JOB NO.  
 1075



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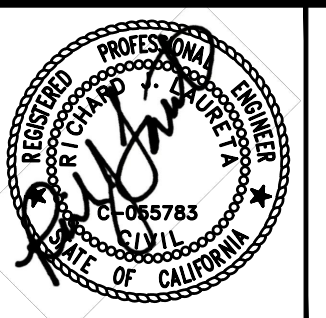
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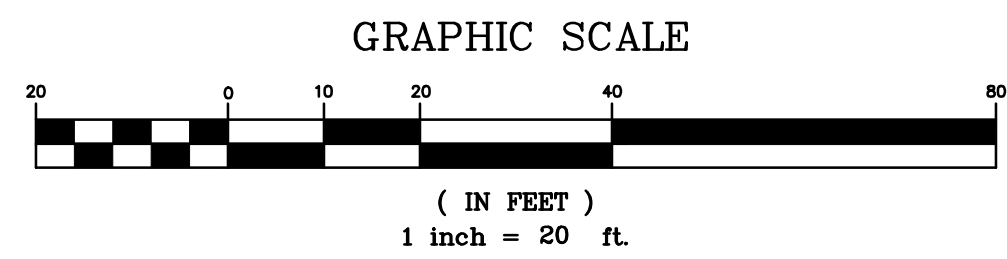
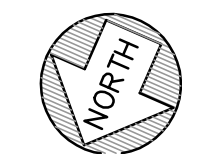
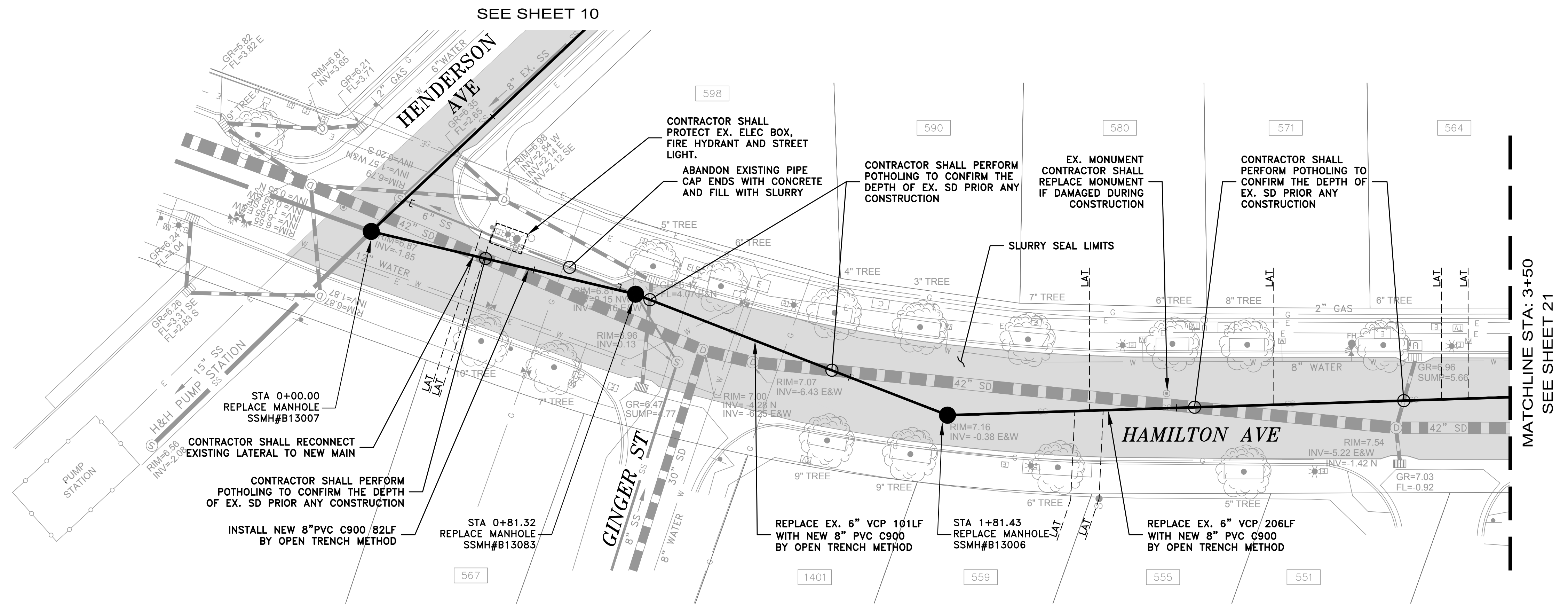
**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY

PROJECT No. 1758.7



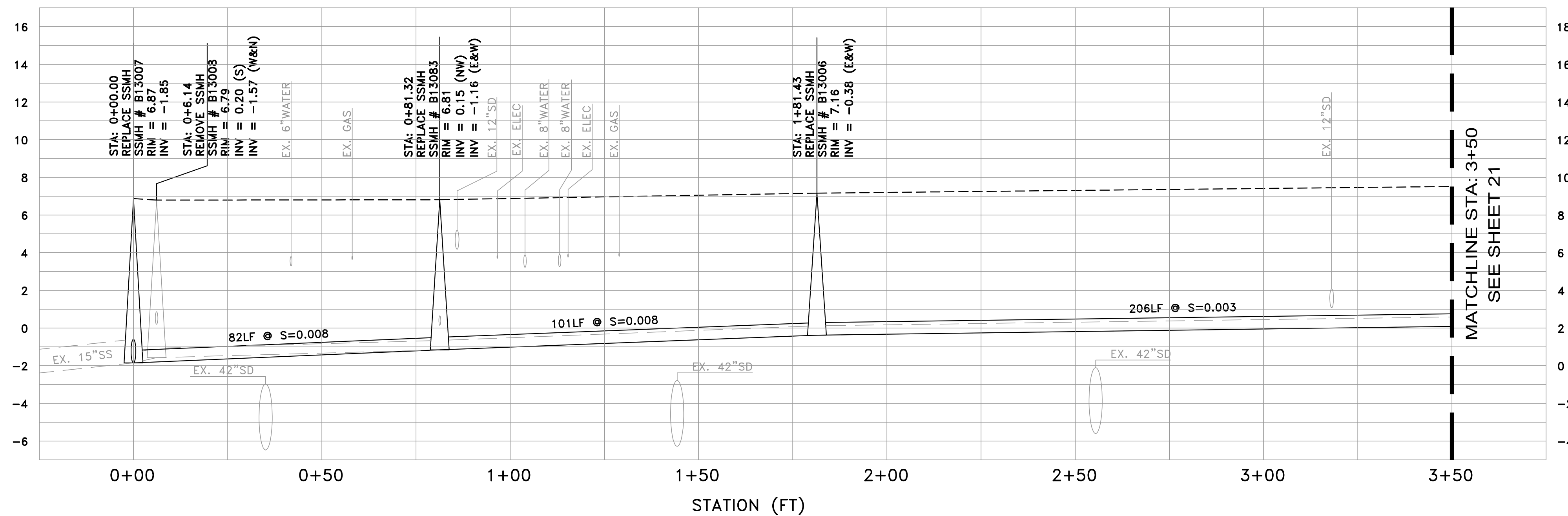
**BELLE HAVEN SEWER PROJECT PHASE III**  
**HAMILTON AVENUE**  
**MENLO PARK, CALIFORNIA**

SHEET	19
JOB NO.	1075



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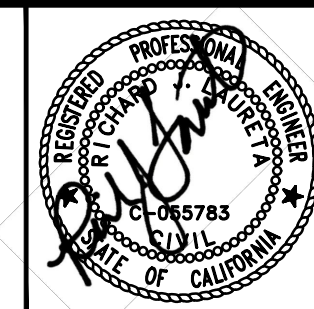
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**WEST BAY**  
SANITARY DISTRICT  
SAN MATEO COUNTY

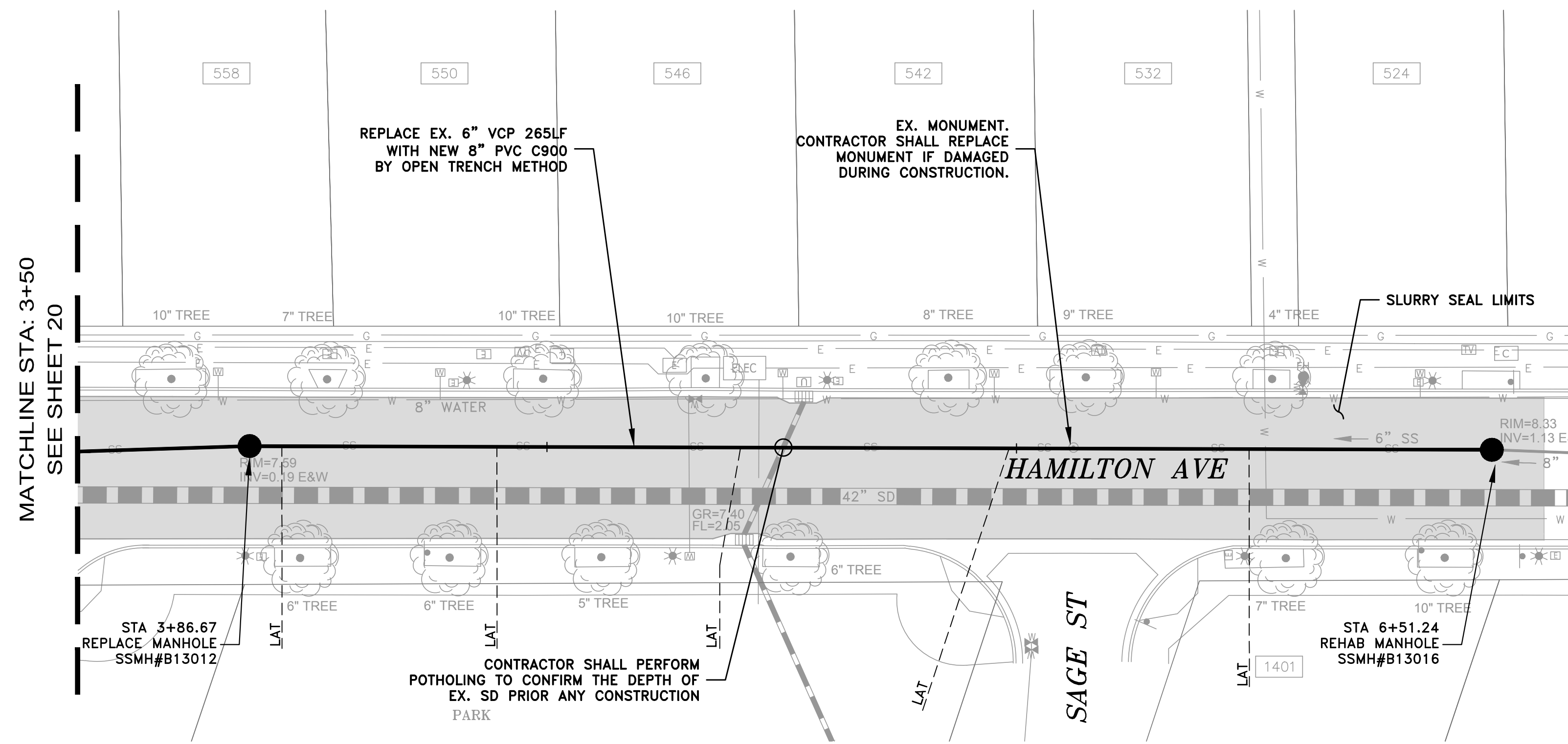
PROJECT No. 1758.7



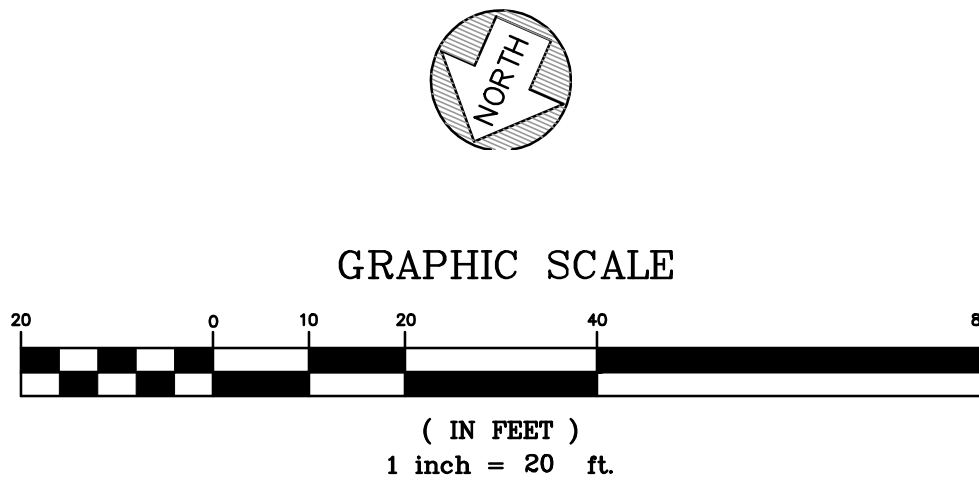
**BELLE HAVEN SEWER PROJECT PHASE III**  
**HAMILTON AVENUE**  
**MENLO PARK, CALIFORNIA**

SHEET  
20

JOB NO.  
1075

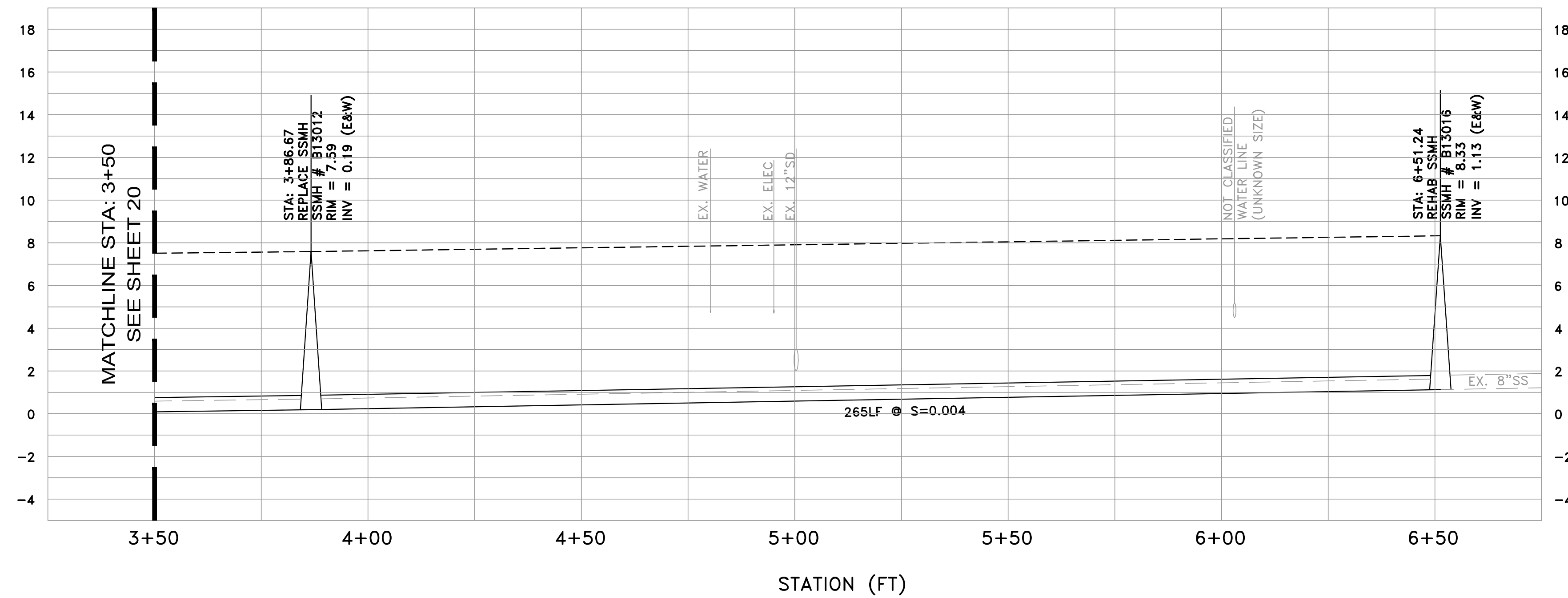


MATCHLINE STA: 3+50  
SEE SHEET 20



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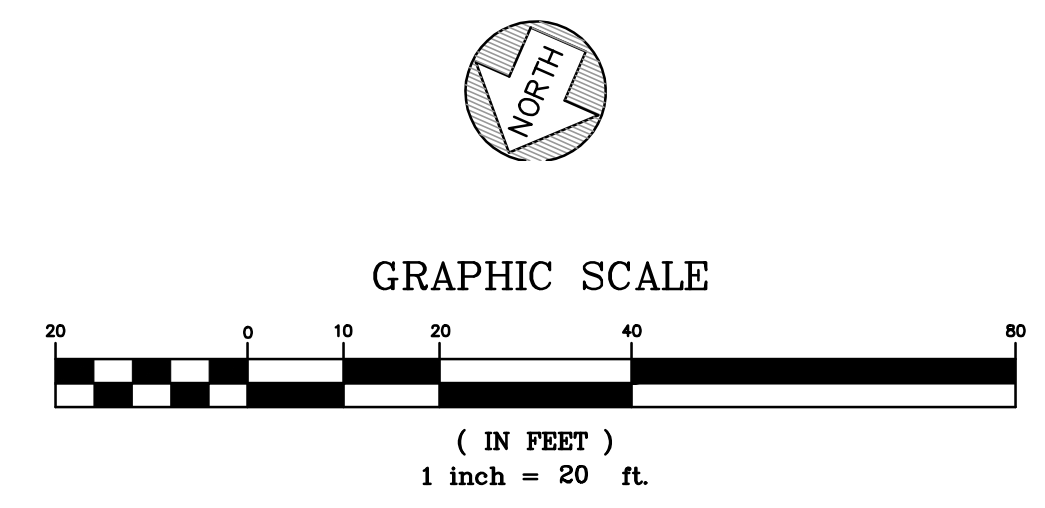
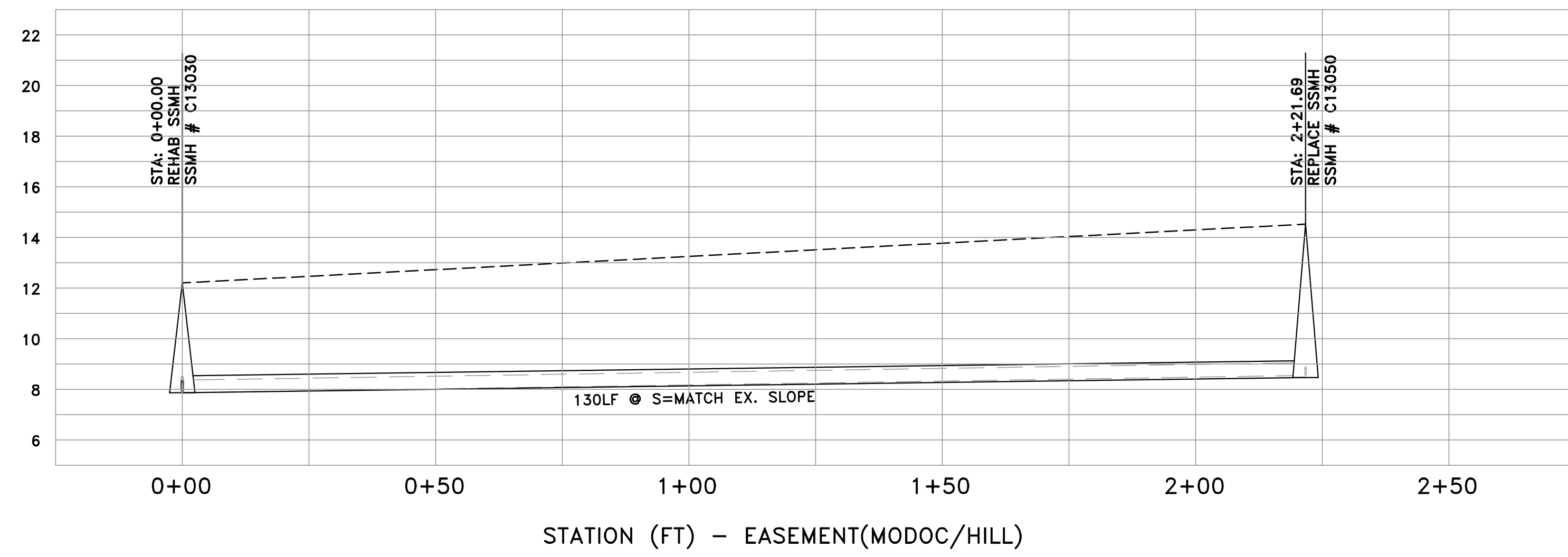
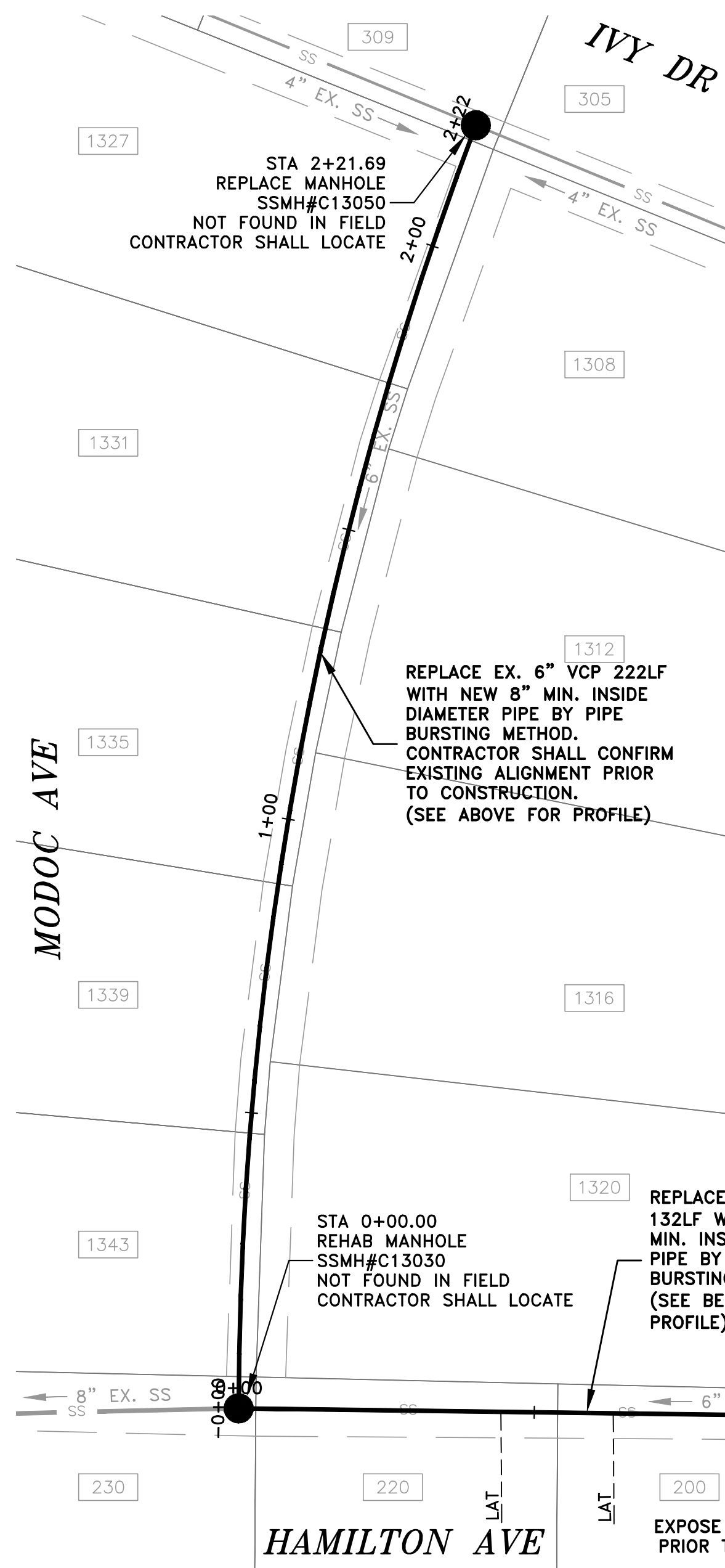
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**WEST BAY**  
SANITARY DISTRICT  
SAN MATEO COUNTY  
PROJECT No. 1758.7

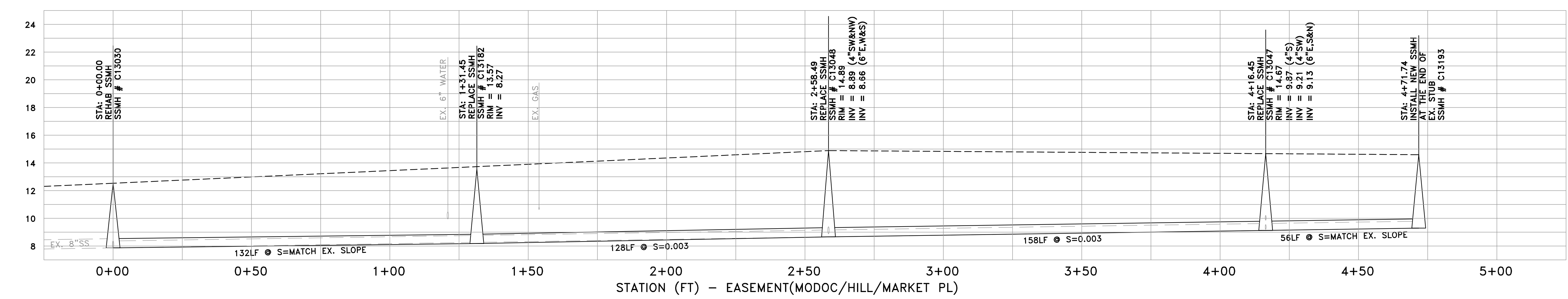


**BELLE HAVEN SEWER PROJECT PHASE III**  
**HAMILTON AVENUE**  
**MENLO PARK, CALIFORNIA**

SHEET  
**21**  
JOB NO.  
**1075**



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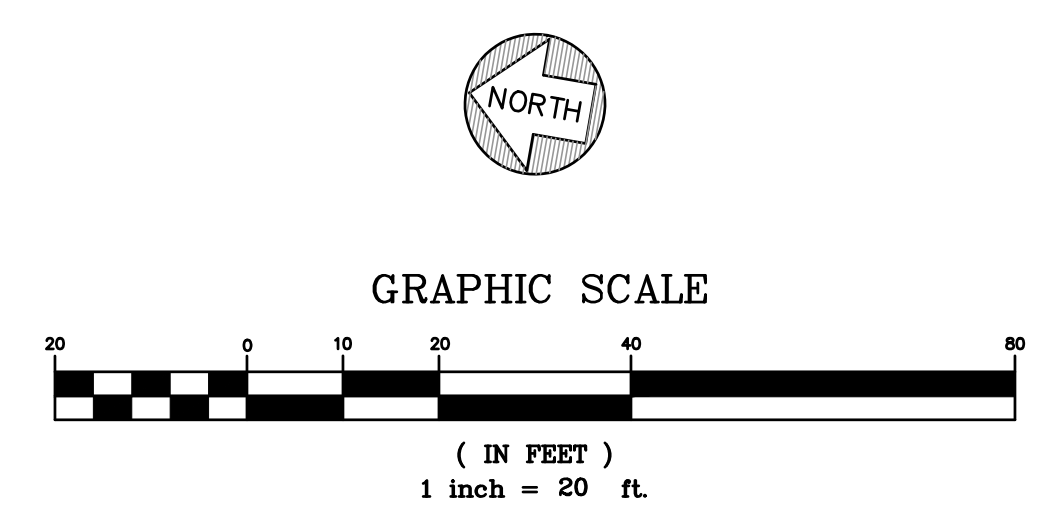
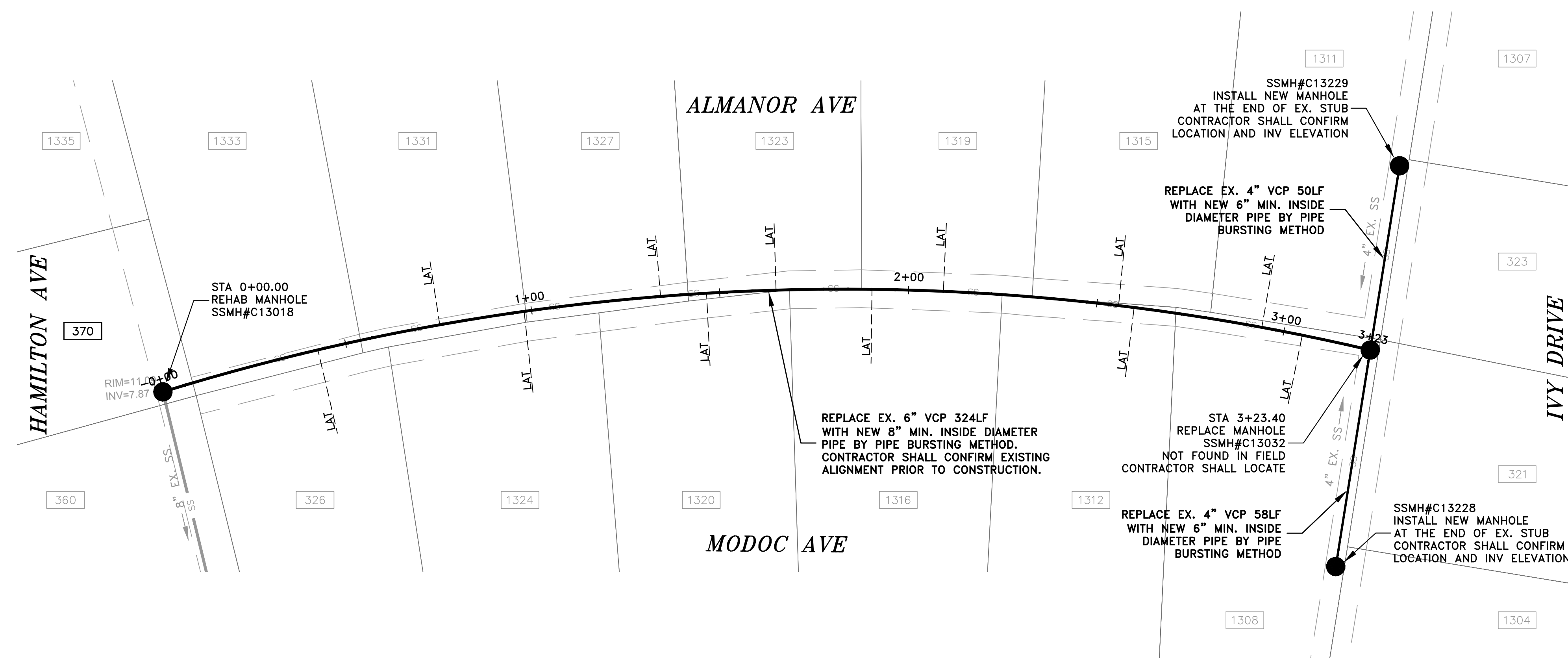
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**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY  
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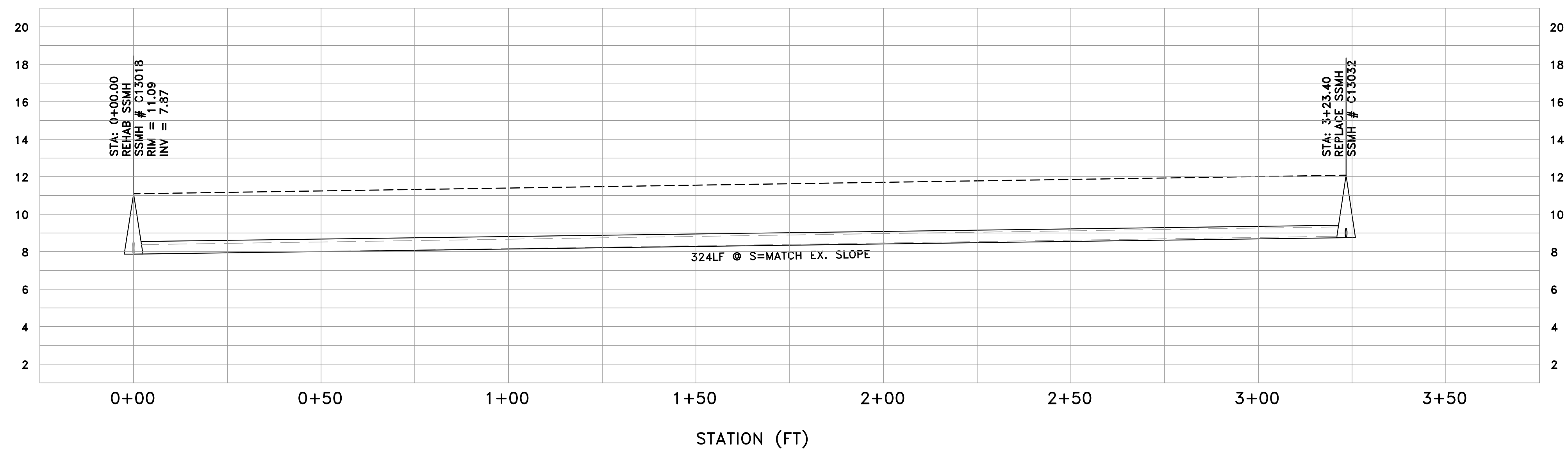


**BELLE HAVEN SEWER PROJECT PHASE III**  
**EASEMENT (MODOC/HILL/MARKET PL)**  
**MENLO PARK, CALIFORNIA**

SHEET	22
JOB NO.	1075



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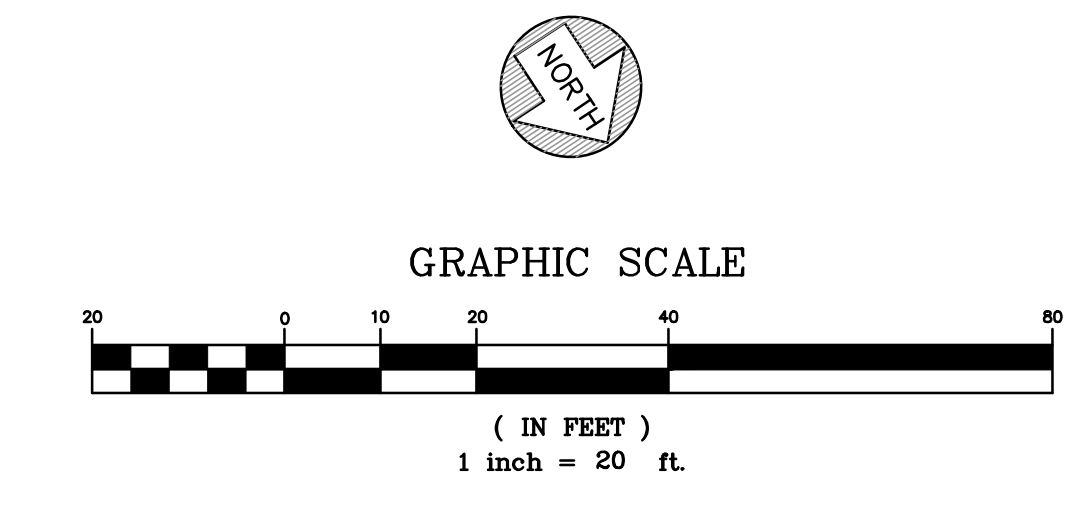
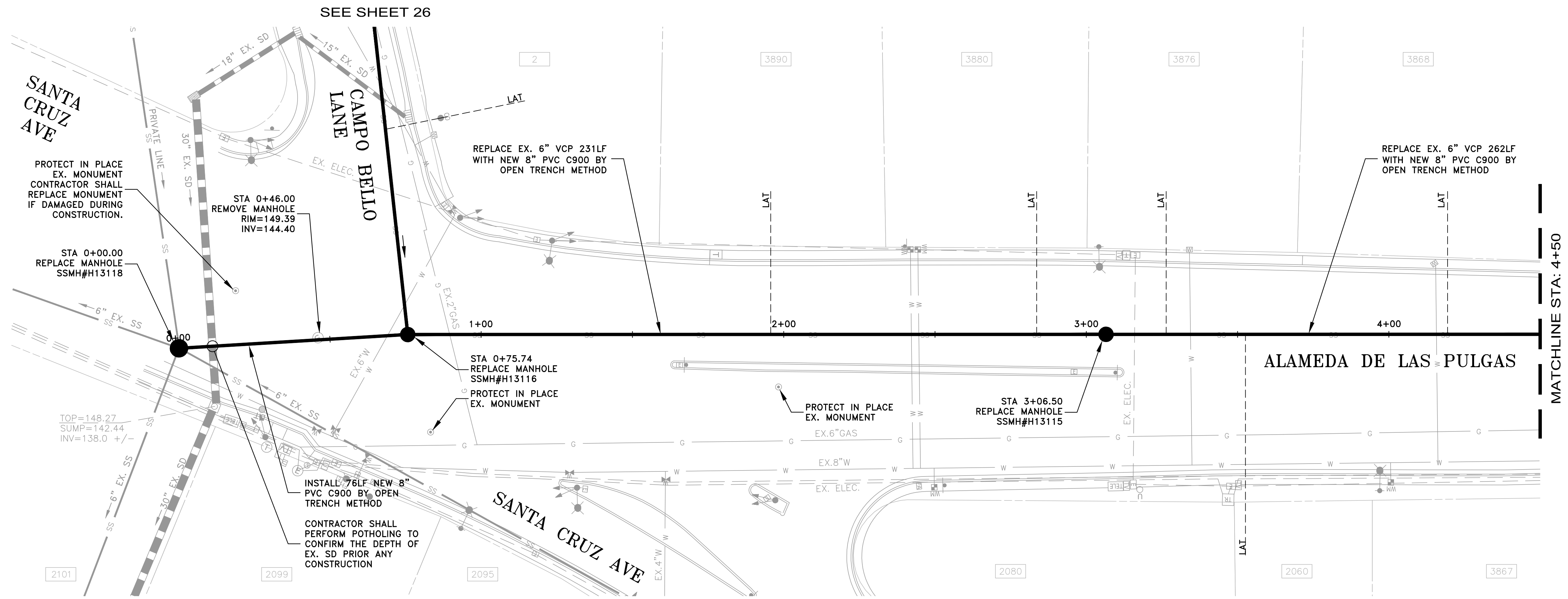
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 SANITARY DISTRICT  
 SAN MATEO COUNTY  
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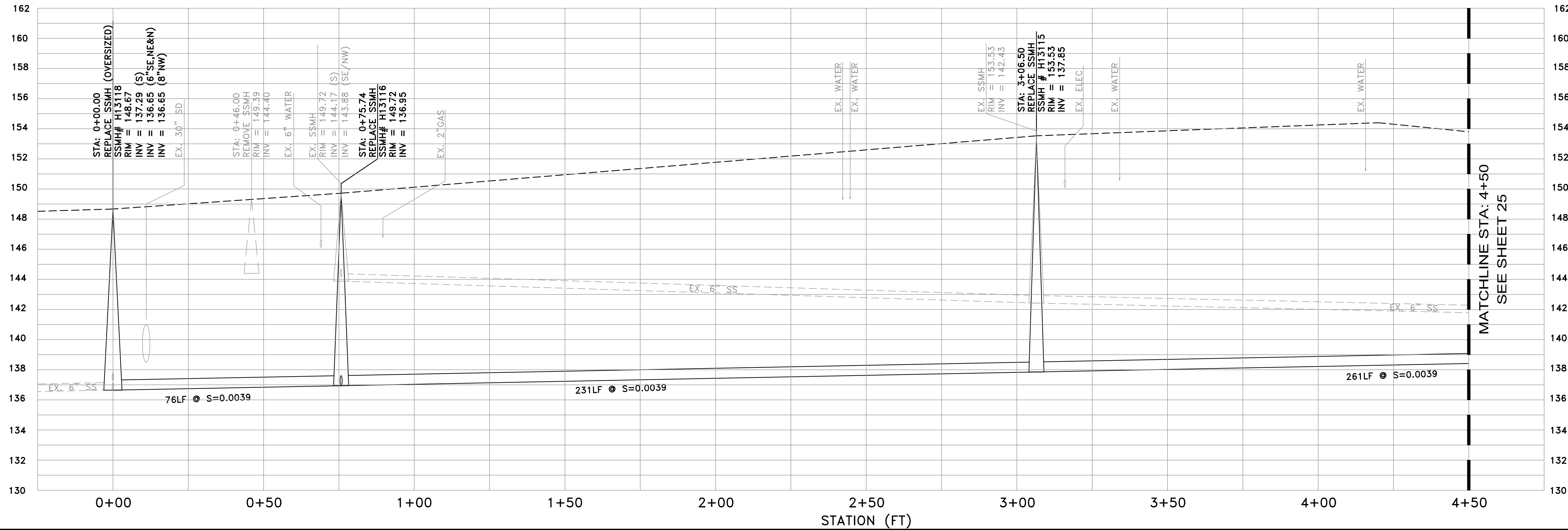
**BELLE HAVEN SEWER PROJECT PHASE III**  
**EASEMENT (ALMANOR/MODOC)**  
**MENLO PARK, CALIFORNIA**

SHEET  
**23**  
 JOB NO.  
**1075**





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

DATE:	02/08/18	02/15/18	ISSUED FOR BOARD REVIEW
SCALE:	AS NOTED		
DESIGNED:	AW,PJG		
DRAWN:	AW,PJG		
CHECKED:	JJF		
PROJ. ENGR:	RJL		
BY	DATE	DESCRIPTION OF REVISIONS	APP'D

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

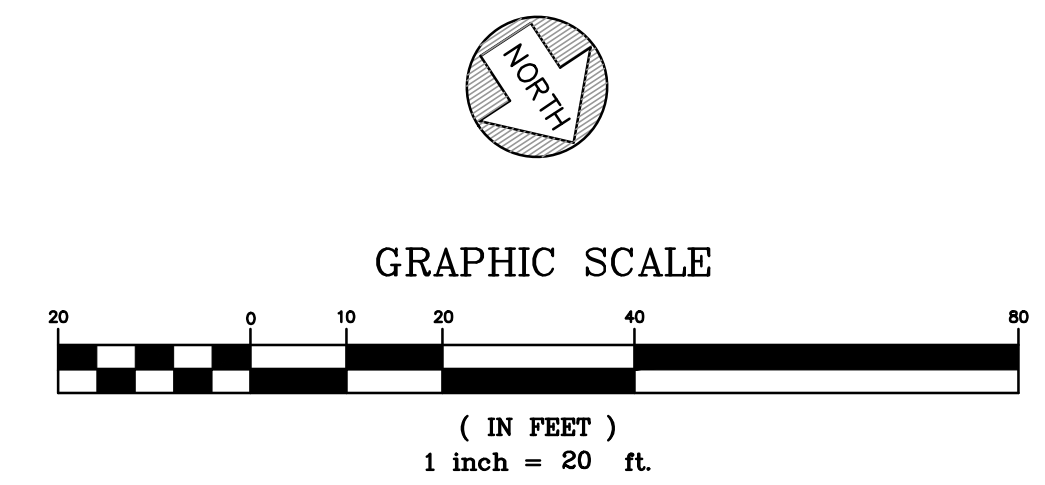
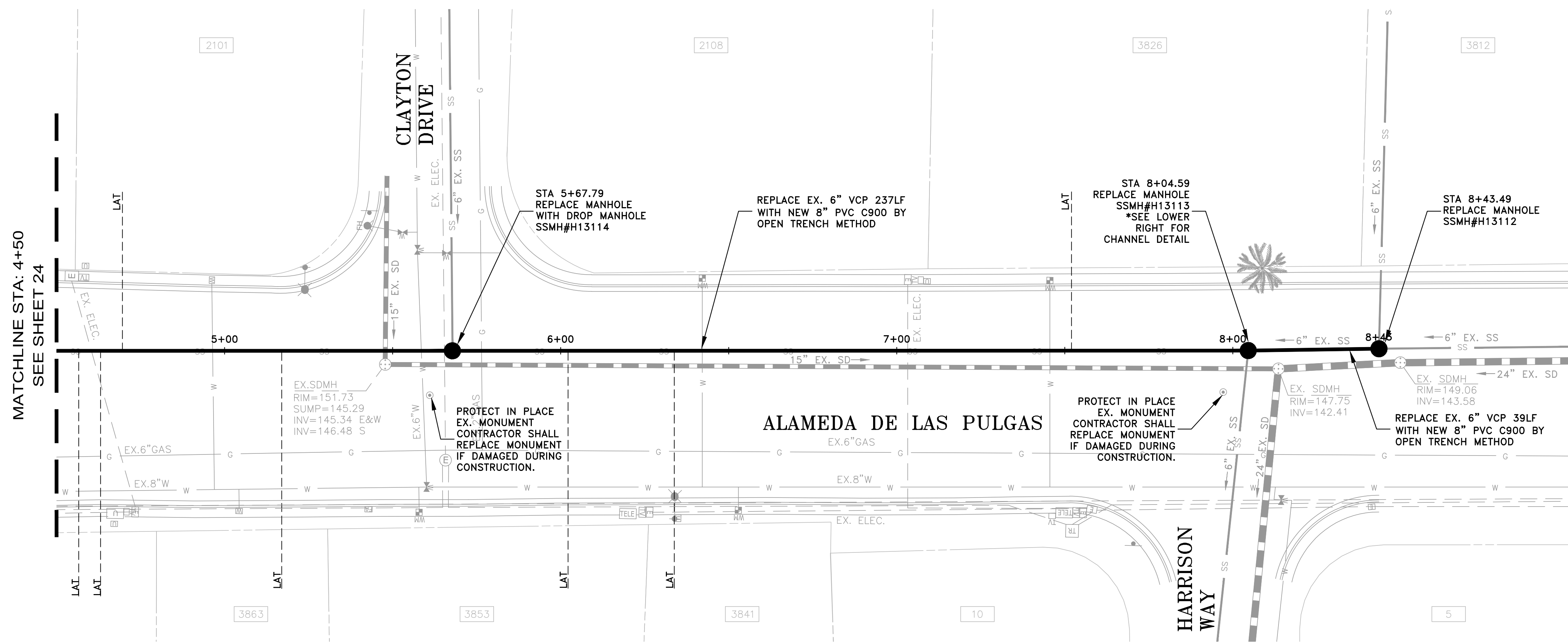
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**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY  
 PROJECT No. 1758.7

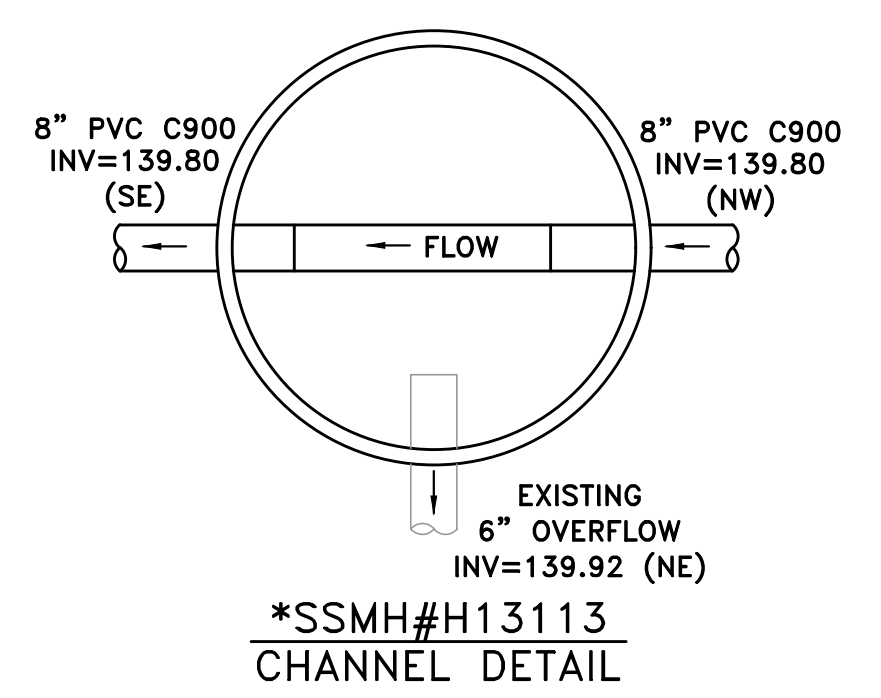
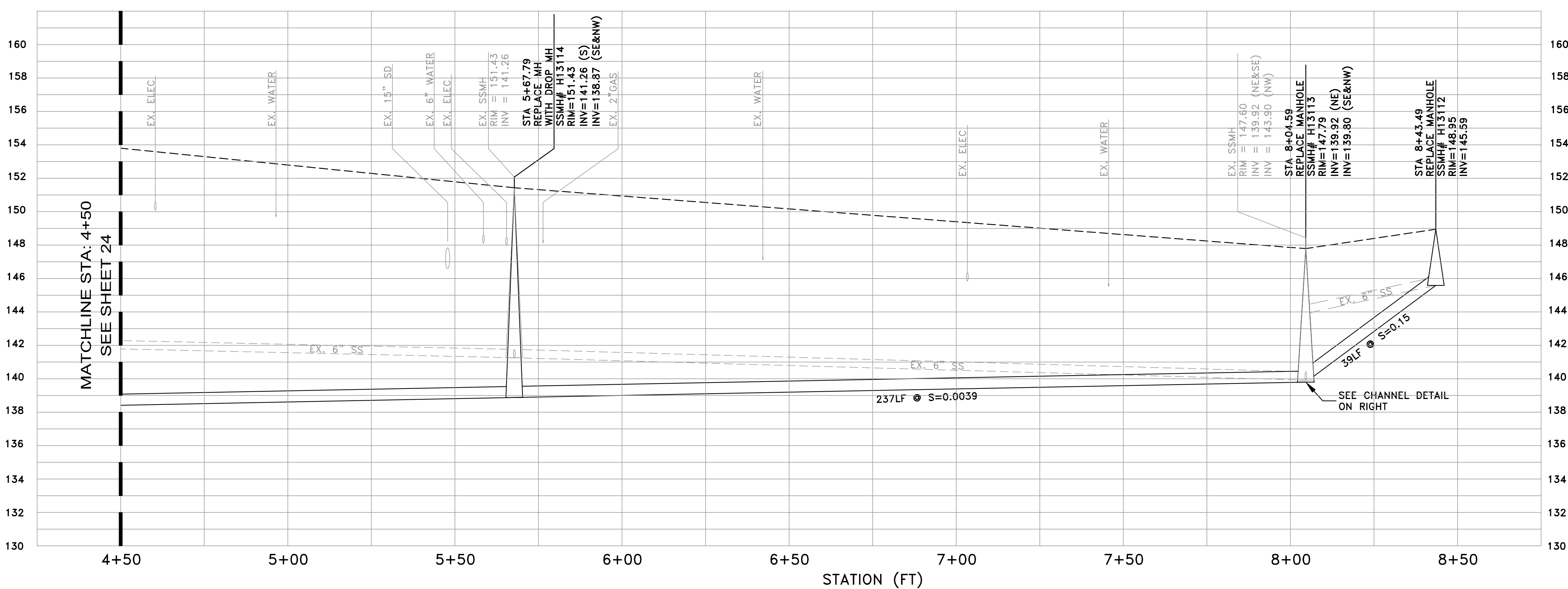


**BELLE HAVEN SEWER PROJECT PHASE III**  
**ALAMEDA DE LAS PULGAS**  
**SAN MATEO COUNTY, CALIFORNIA**

SHEET  
**24**  
 JOB NO.  
**1075**



- 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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  - 5) BETWEEN STATION 6+00 AND 7+00 EXISTING PIPELINE WAS BACKFILLED WITH CDF.



PROFILE VIEW  
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BY	DATE	DESCRIPTION OF REVISIONS	APP'D

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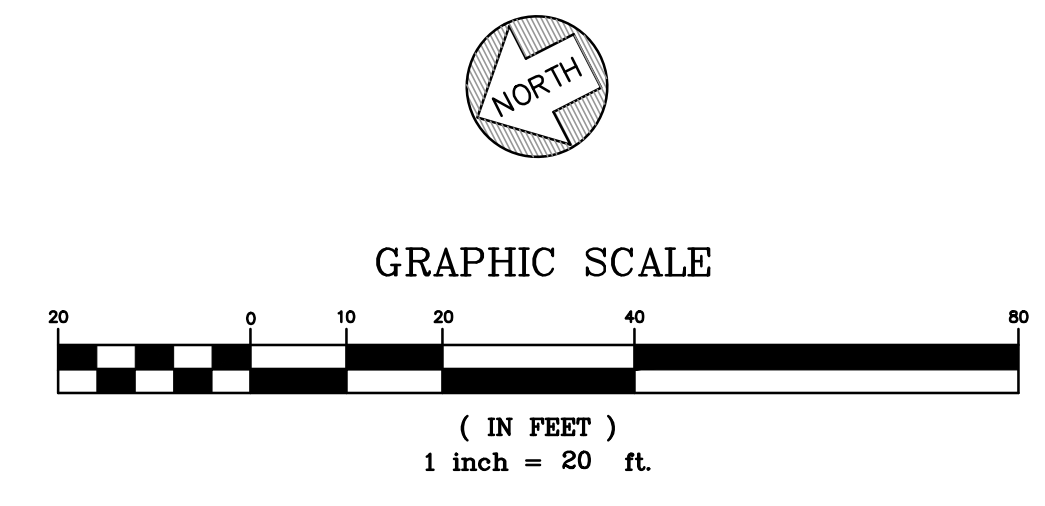
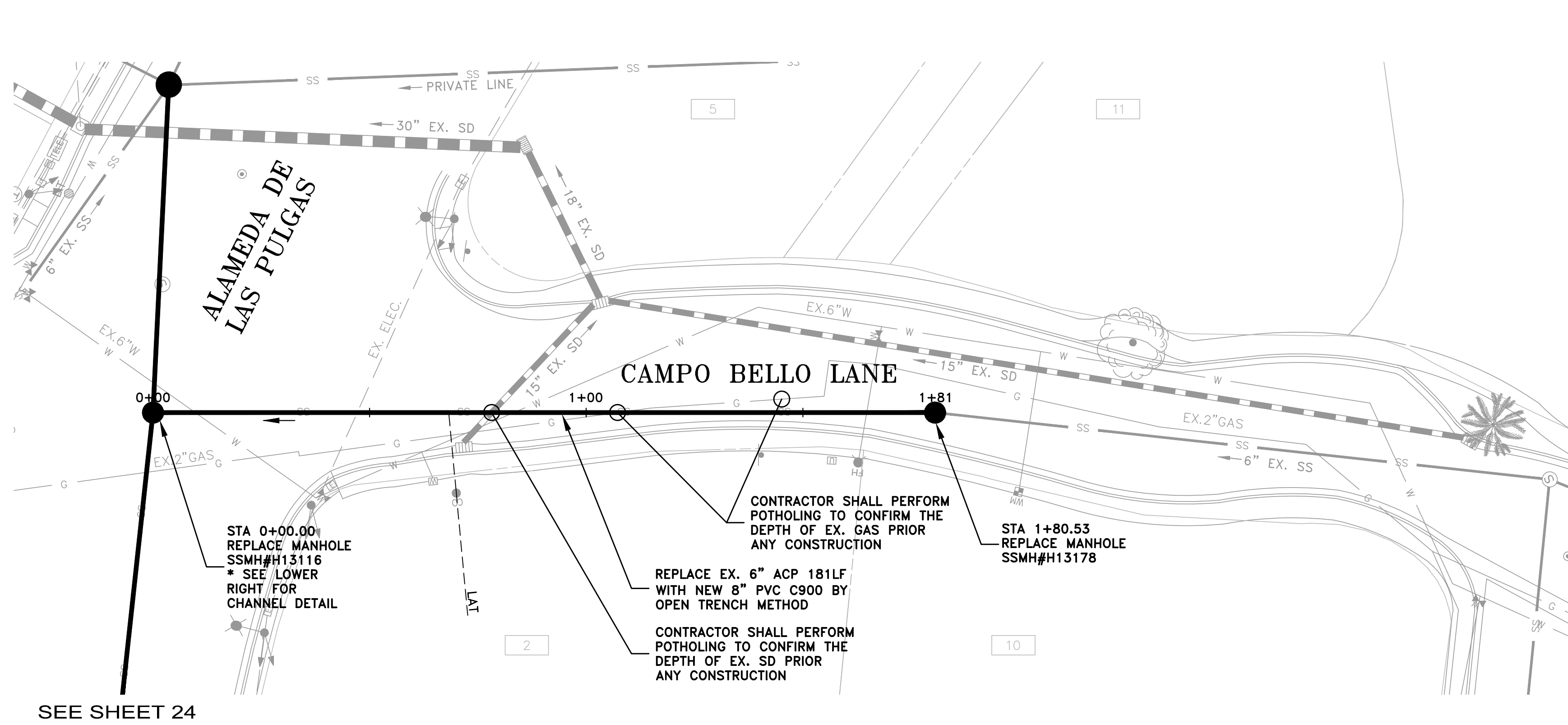
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**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY  
 PROJECT No. 1758.7



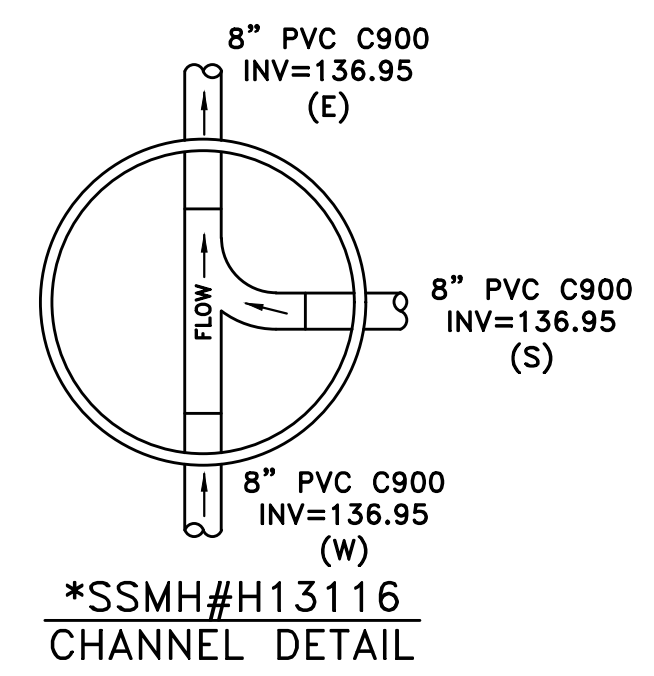
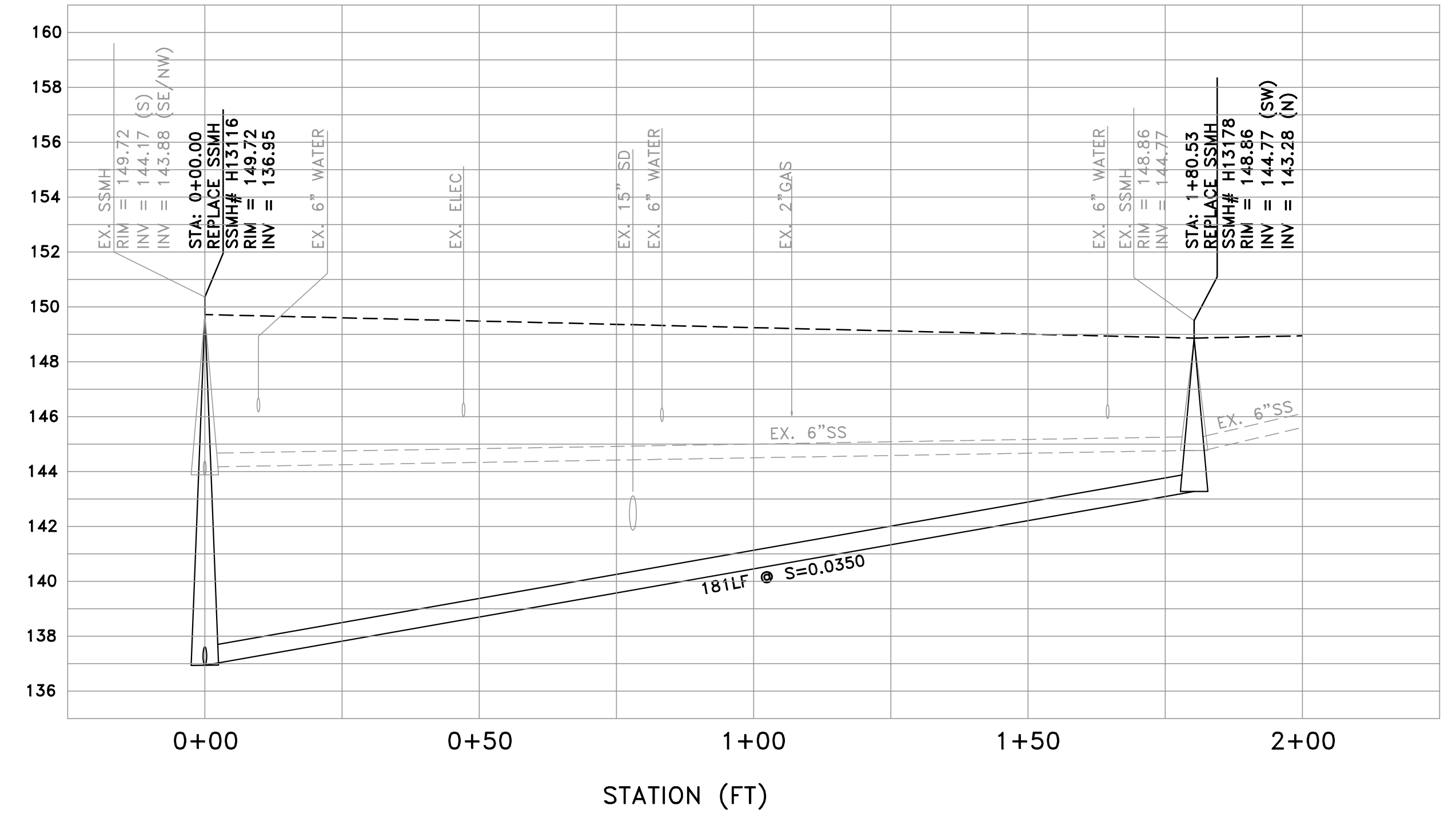
**BELLE HAVEN SEWER PROJECT PHASE III**  
**ALAMEDA DE LAS PULGAS**  
**SAN MATEO COUNTY, CALIFORNIA**

SHEET	25
JOB NO.	1075



- NOTES:
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SEE SHEET 24



PROFILE VIEW  
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 VERT: 1" = 4'

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BY	DATE	DESCRIPTION OF REVISIONS	APP'D

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

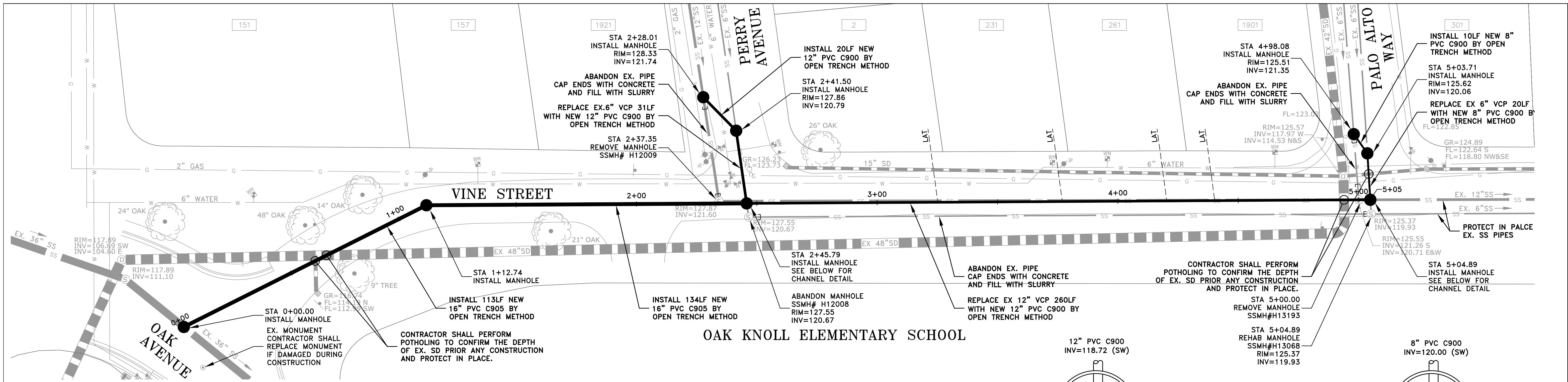
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**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY  
 PROJECT No. 1758.7



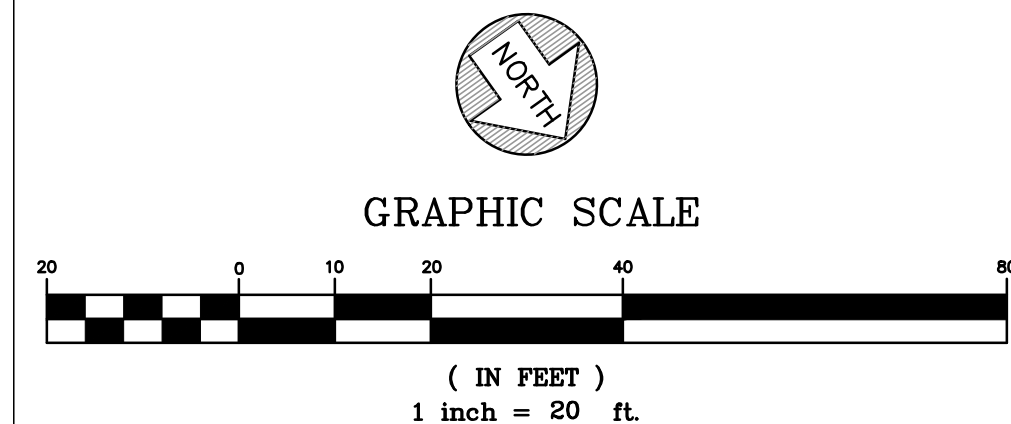
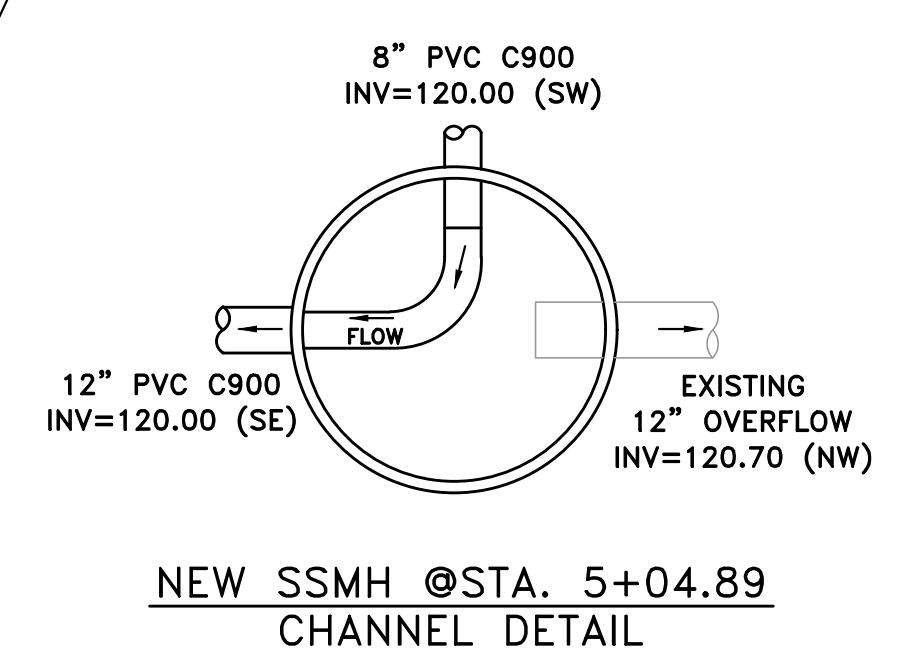
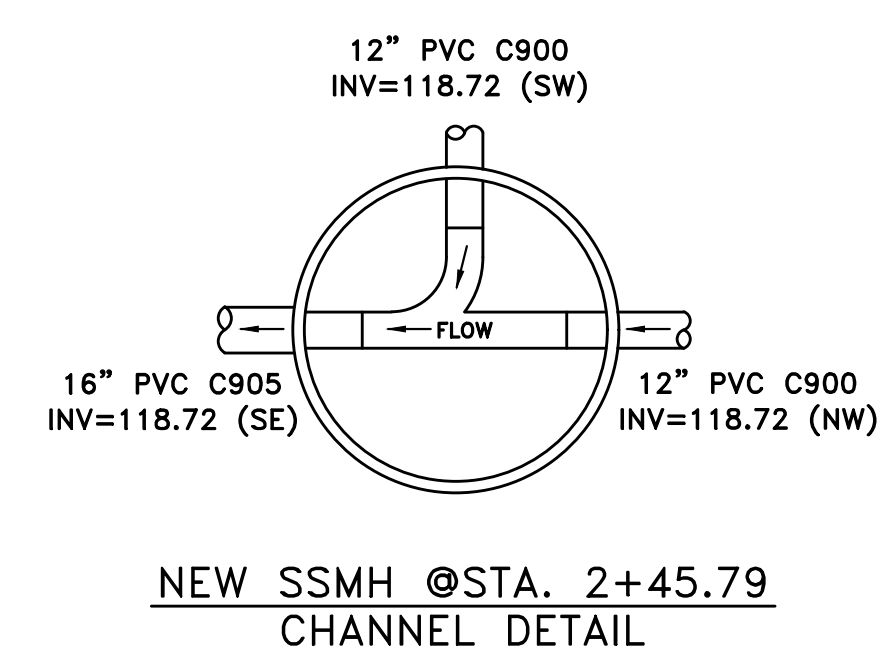
**BELLE HAVEN SEWER PROJECT PHASE III**  
**CAMPO BELLO LANE**  
**SAN MATEO COUNTY, CALIFORNIA**

SHEET  
**26**  
 JOB NO.  
**1075**



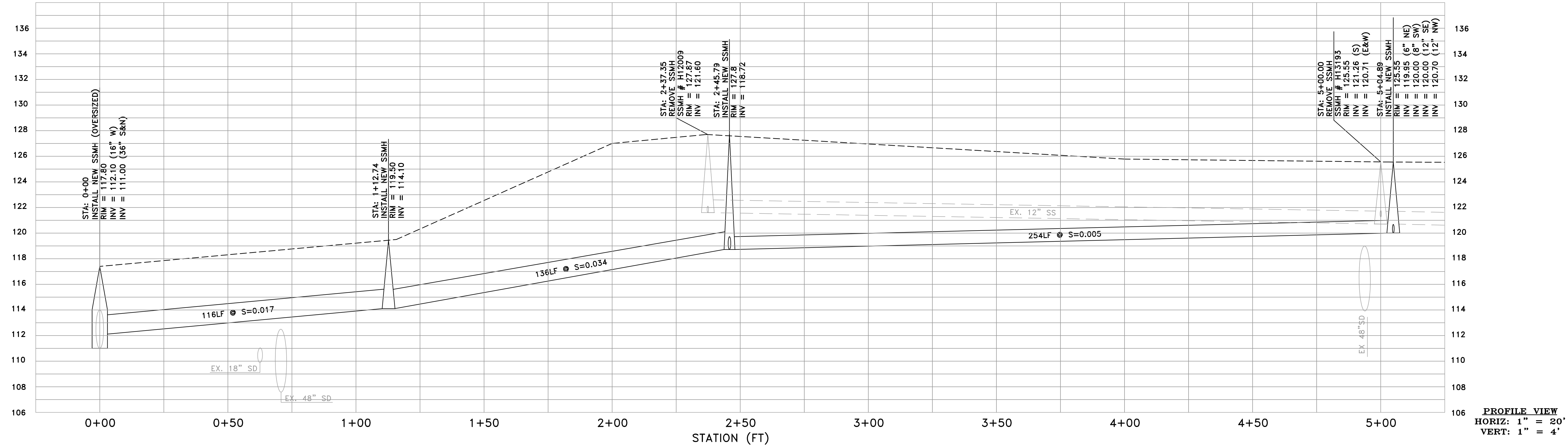
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- REQUIREMENTS FOR ALLOWABLE WORK HOURS DURING SCHOOL SESSION ARE LOCATED IN SECTION 8.17 OF THE SPECIFICATIONS.



GRAPHIC SCALE

( IN FEET )  
1 inch = 20 ft.



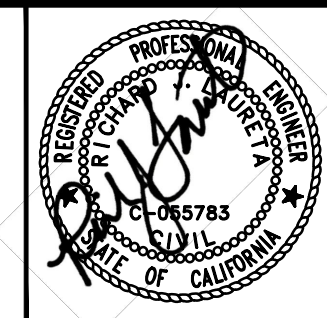
PROFILE VIEW  
HORIZ: 1" = 20'  
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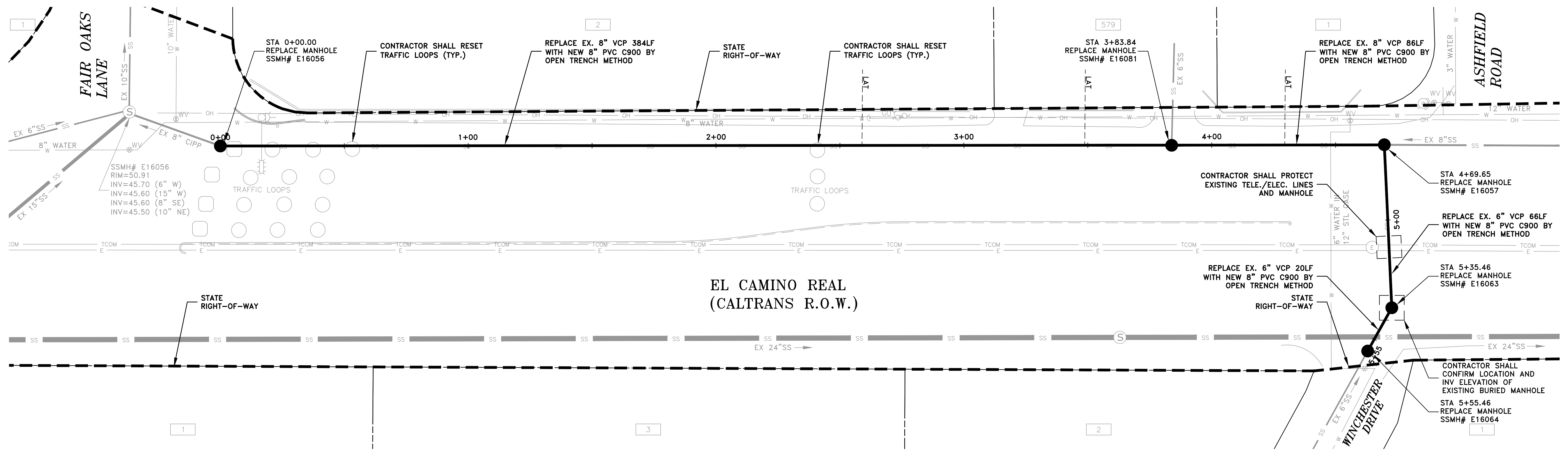
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**WEST BAY**  
SANITARY DISTRICT  
SAN MATEO COUNTY  
PROJECT No. 1758.7



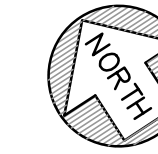
**BELLE HAVEN SEWER PROJECT PHASE III**  
**VINE STREET**  
**SAN MATEO COUNTY, CALIFORNIA**

SHEET	27
JOB NO.	1075

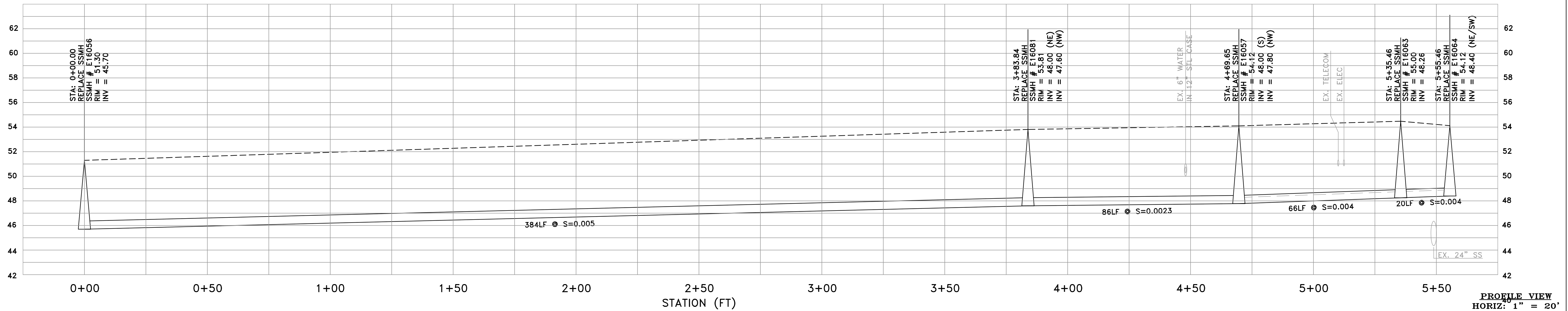
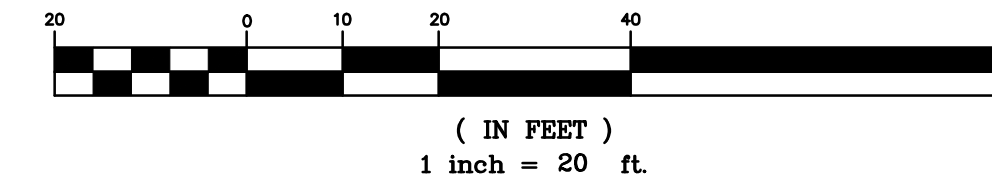


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GRAPHIC SCALE



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

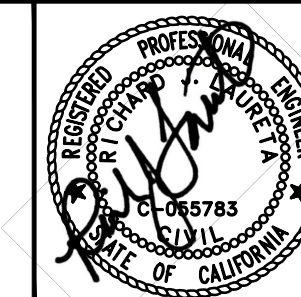
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**WEST BAY**  
SANITARY DISTRICT  
SAN MATEO COUNTY

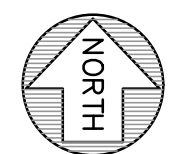
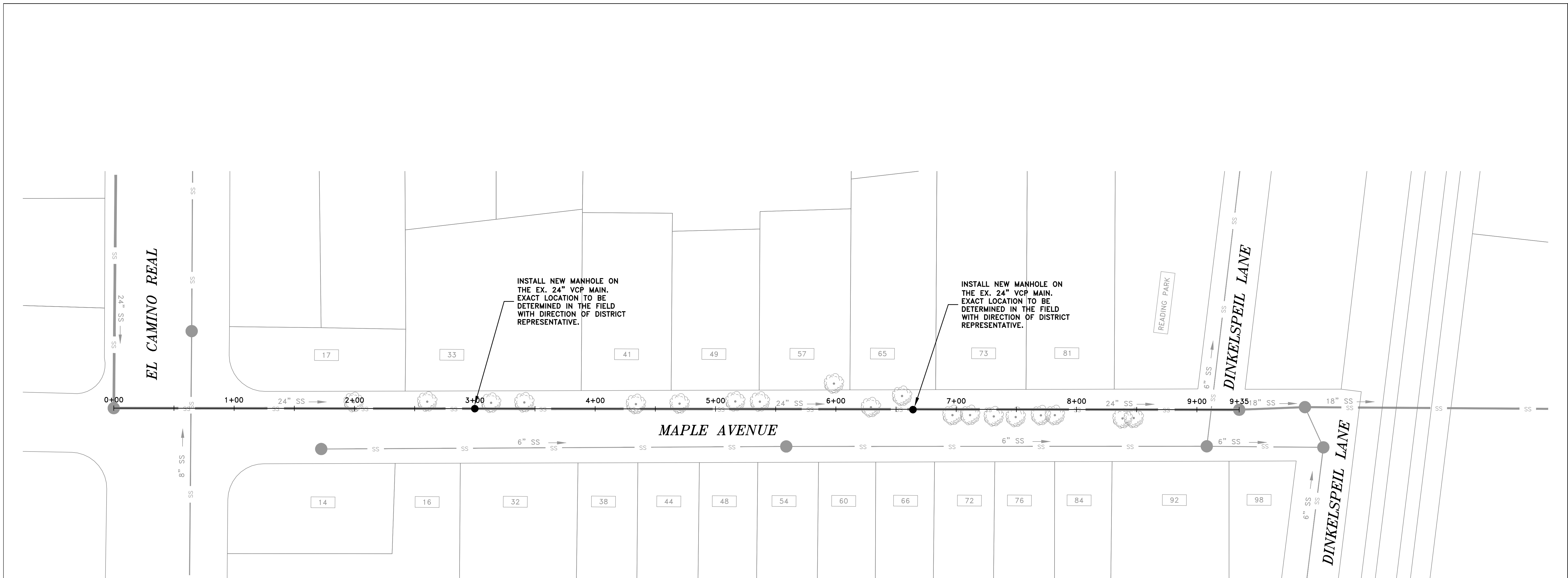
PROJECT No. 1758.7



**BELLE HAVEN SEWER PROJECT PHASE III**  
**EL CAMINO REAL**  
**CALTRANS, CALIFORNIA**

SHEET  
28

JOB NO.  
1075



GRAPHIC SCALE



( IN FEET )  
1 inch = 40 ft.

DATE:	02/08/18	02/15/18	ISSUED FOR BOARD REVIEW	
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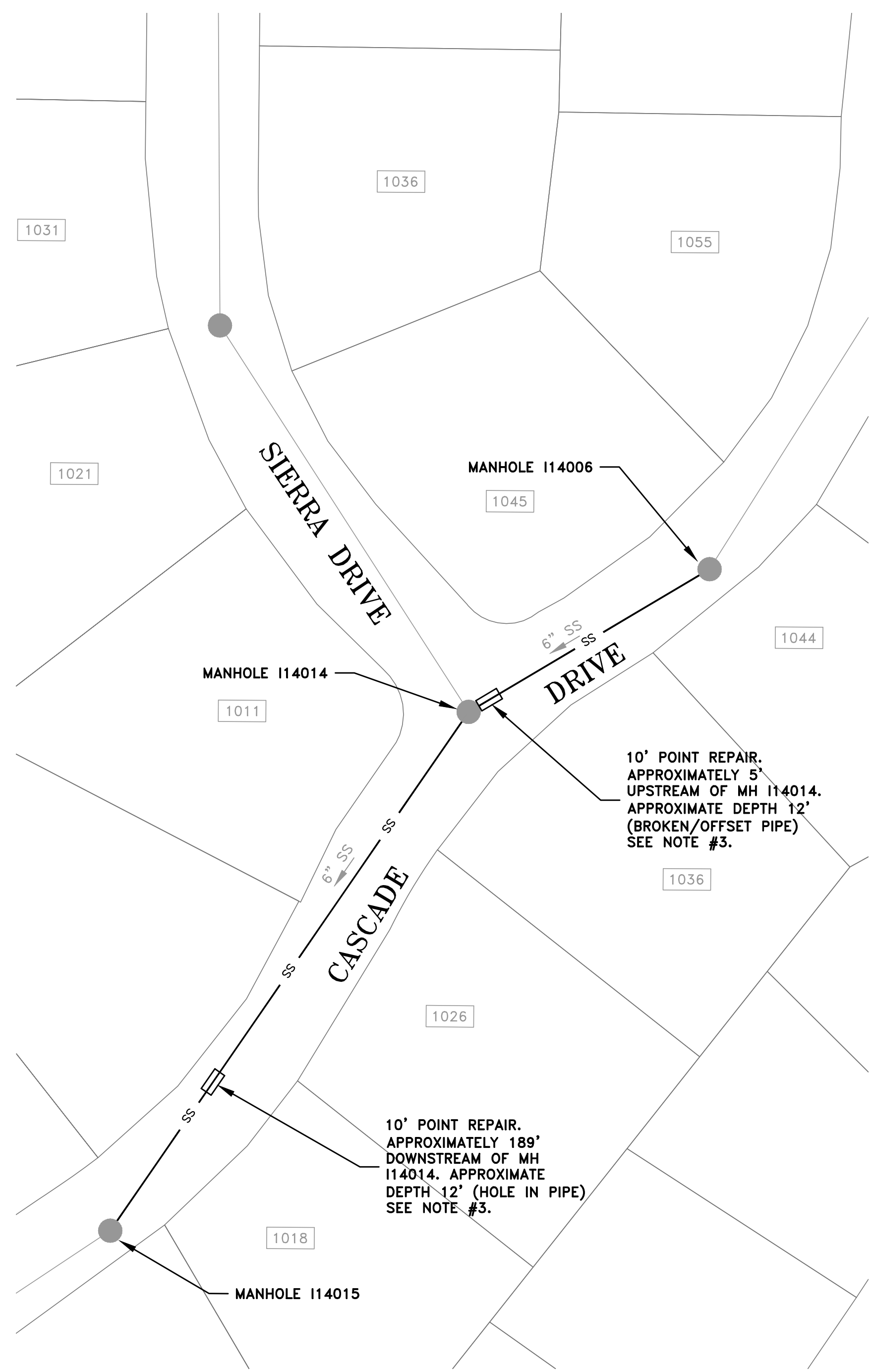
**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY

PROJECT No. 1758.7

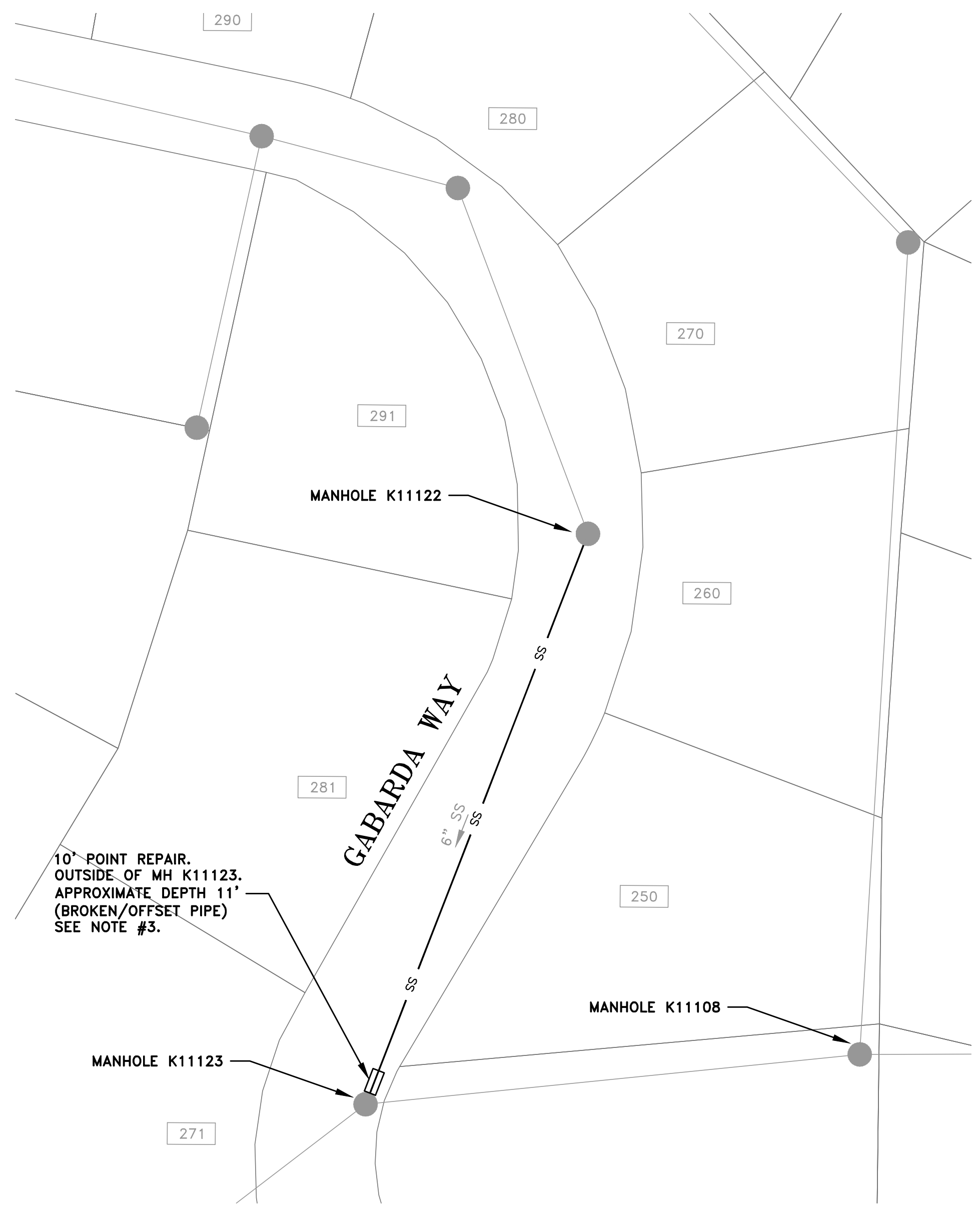


**BELLE HAVEN SEWER PROJECT PHASE III**  
**MAPLE AVENUE**  
**ATHERTON, CALIFORNIA**

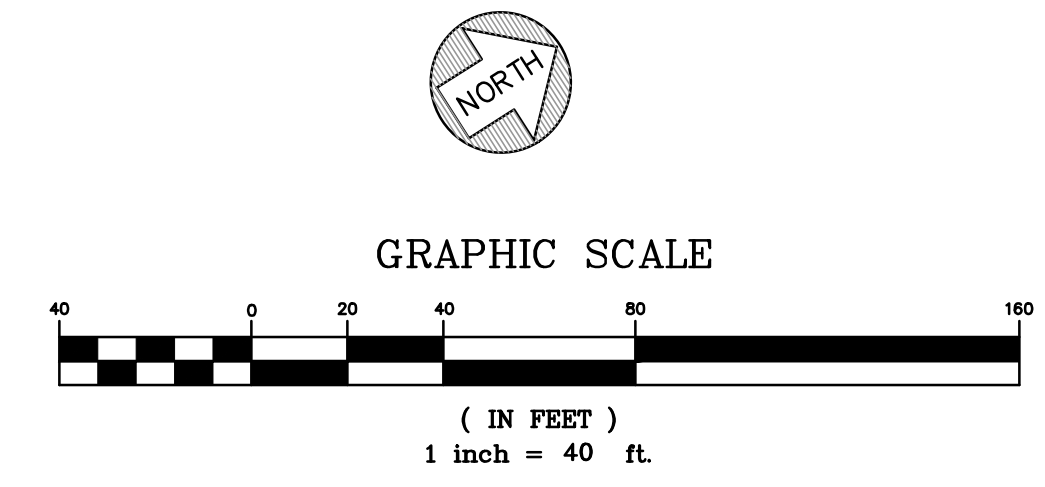
SHEET  
**29**  
 JOB NO.  
**1075**



**MENLO PARK, CALIFORNIA**



**PORTOLA VALLEY, CALIFORNIA**



- NOTES:
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  - 3) INFORMATION PROVIDED ON THIS SHEET IS FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR CCTV TO VERIFY EXACT LOCATIONS OF ALL REPAIRS.
  - 4) EXISTING PIPE MATERIALS ON THIS PLAN SHEET ARE VCP. CONTRACTOR SHALL MATCH PIPE MATERIALS FOR EACH POINT REPAIR.

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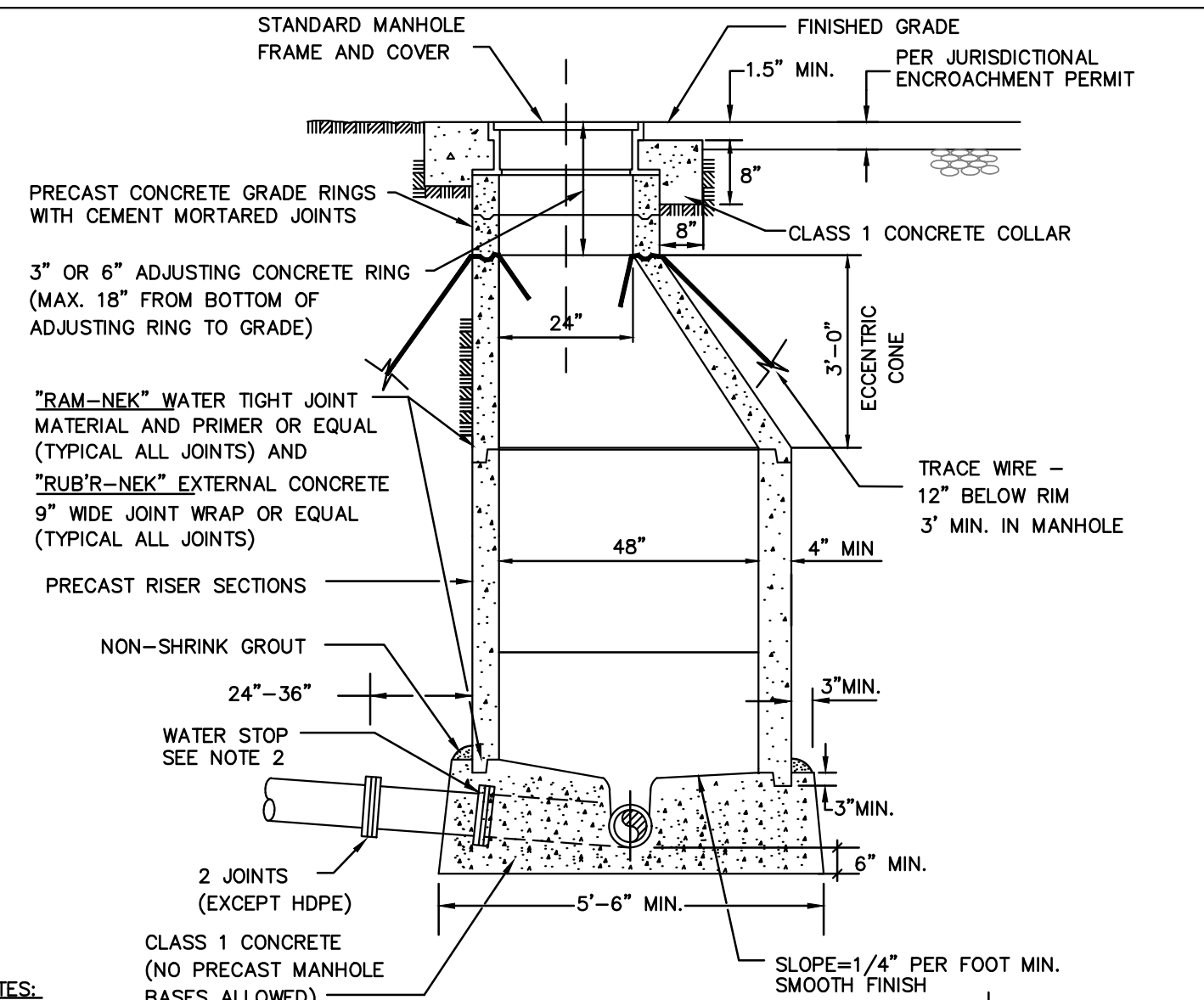
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**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY  
 PROJECT No. 1758.7



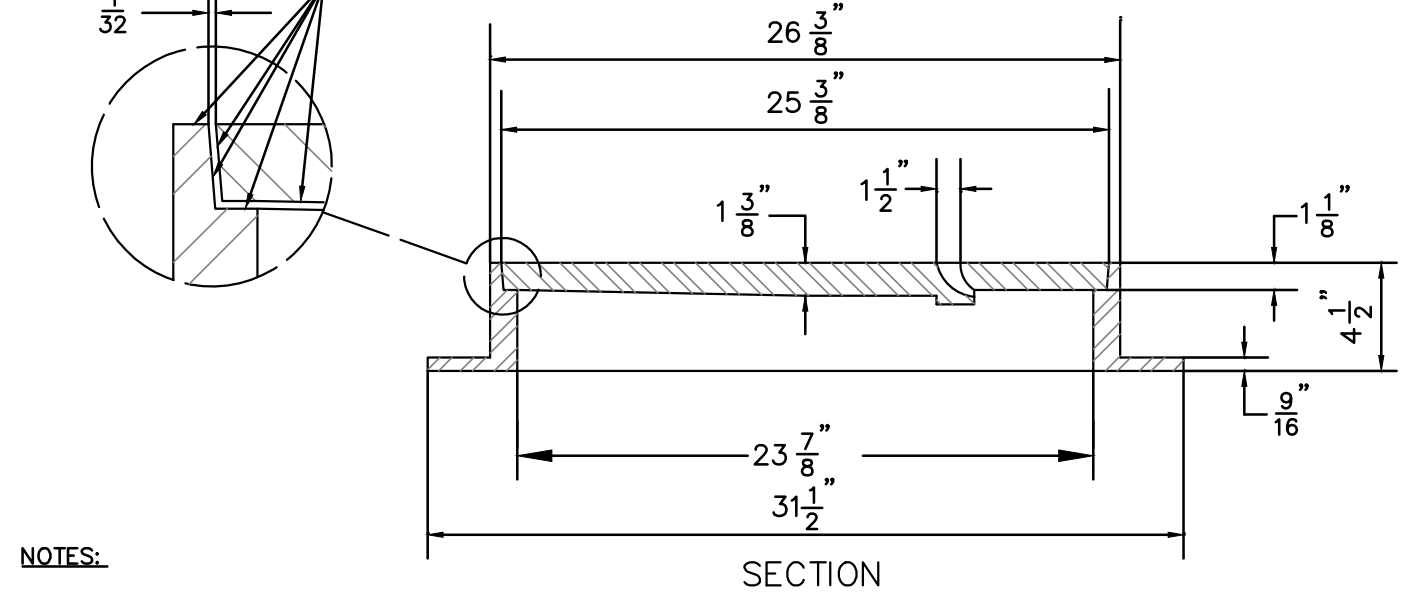
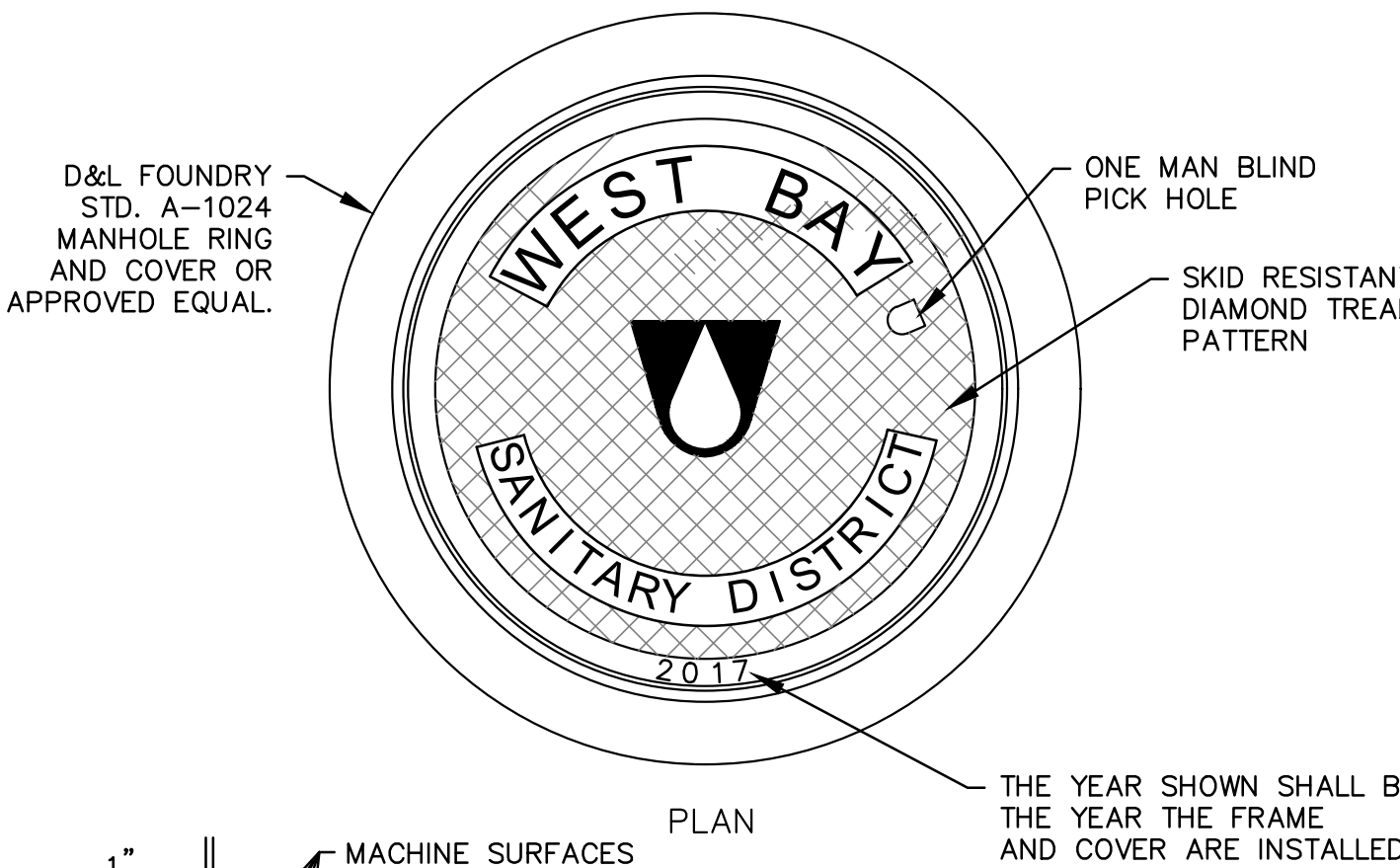
**BELLE HAVEN SEWER PROJECT PHASE III**  
**CASCADE DRIVE / GABARDA WAY**  
**MENLO PARK & PORTOLA VALLEY, CALIFORNIA**

SHEET	30
JOB NO.	1075



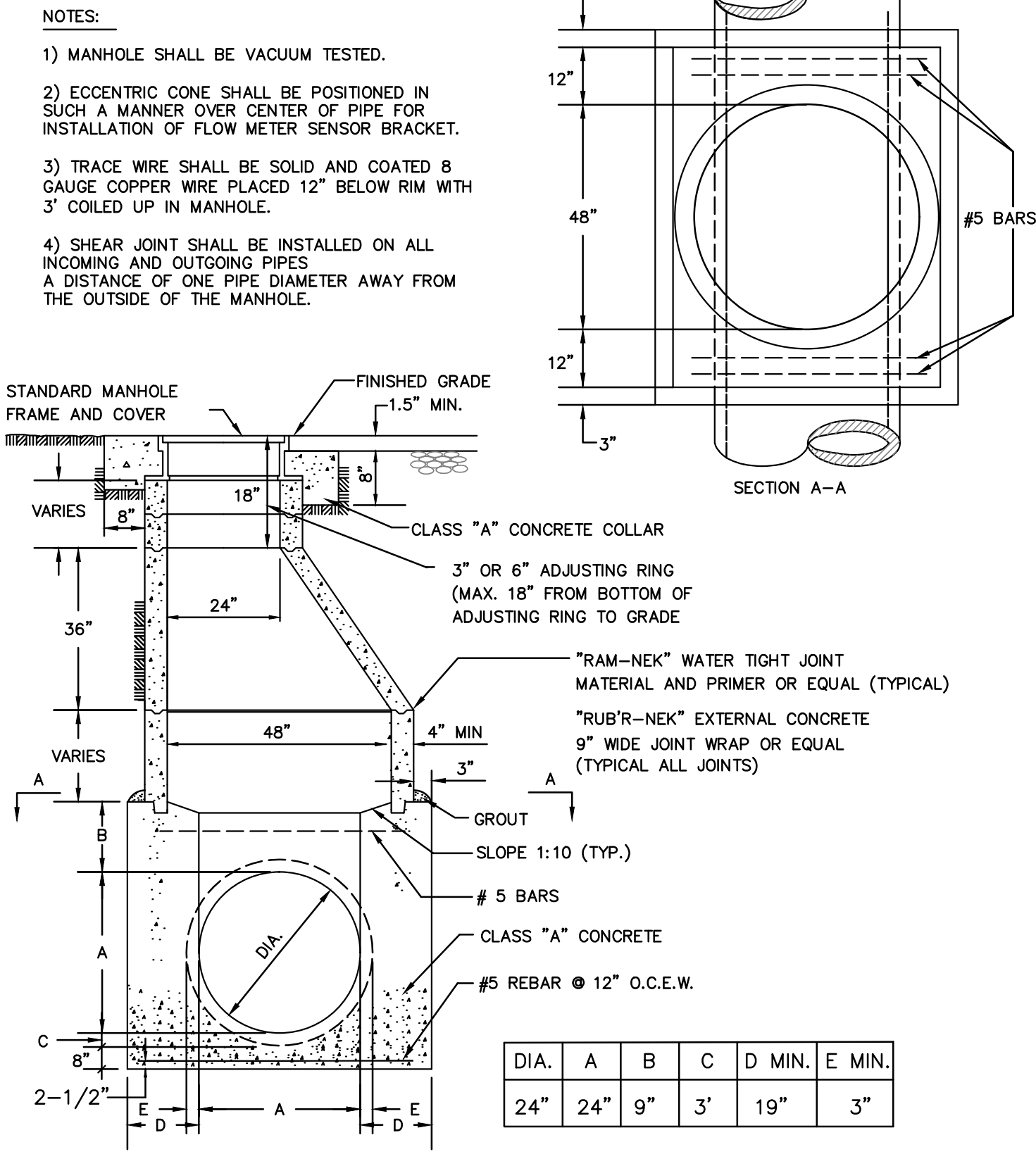
- NOTES:**
- 1) MANHOLE BASES SHALL BE PLACED ON IMPORTED BEDDING MATERIAL COMPACTED TO 95% RELATIVE COMPACTION.
  - 2) AN APPROVED WATER STOP SHALL BE INSTALLED ON ALL FLEXIBLE PIPE ENTERING OR LEAVING A MANHOLE, AND CENTERED UNDER MANHOLE WALL.
  - 3) INSTALL "RAM-NEK" WATER TIGHT JOINT MATERIAL OR 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**

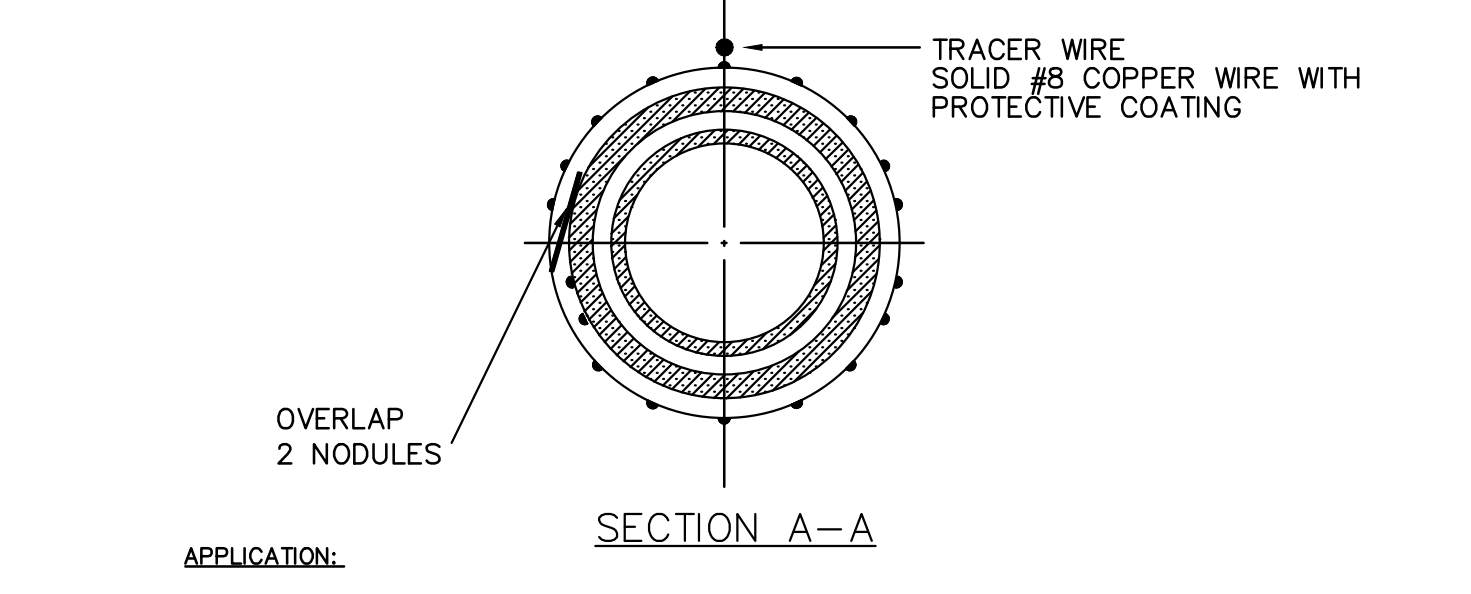
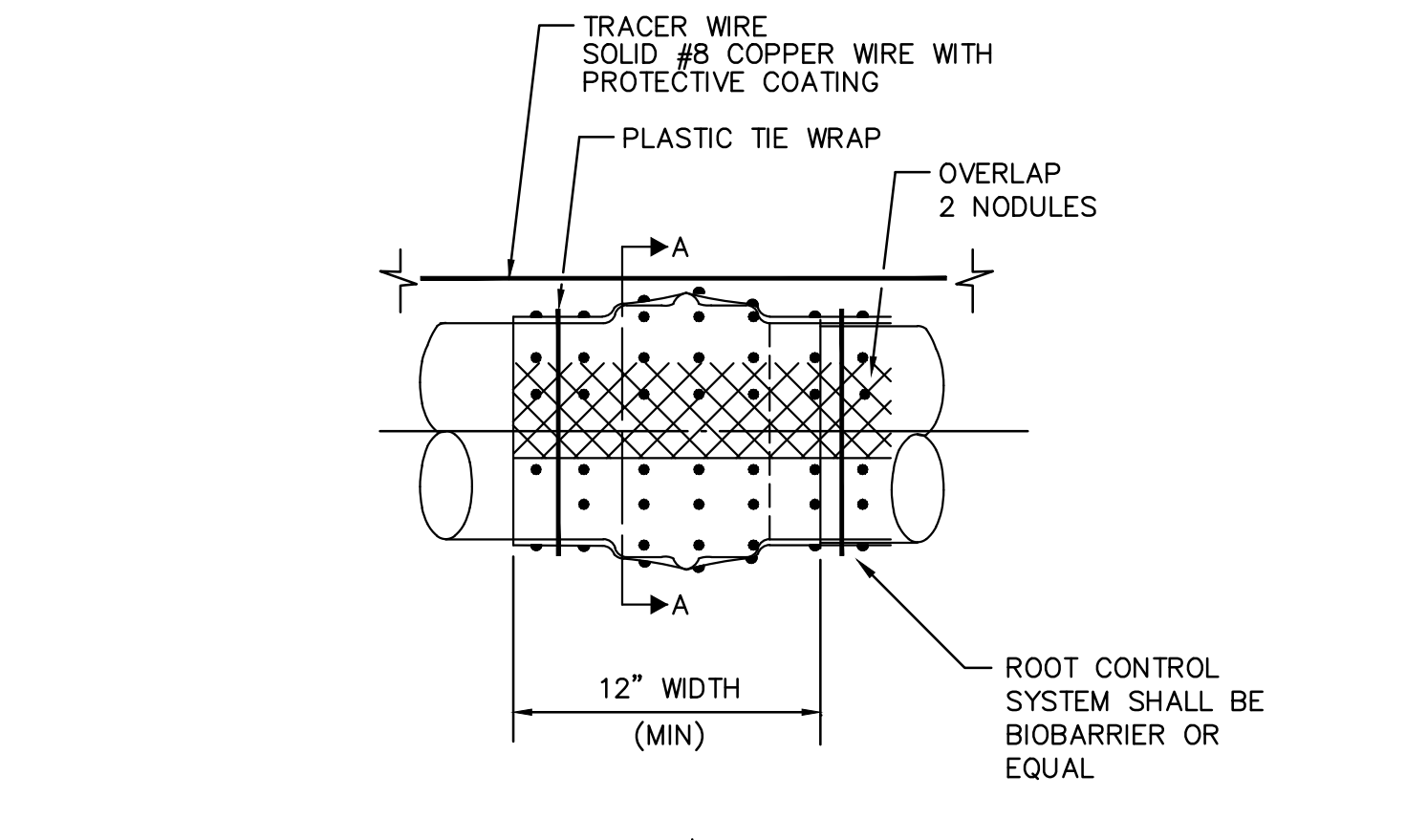


- NOTES:**
- 1) CAST IRON FOR FRAME AND COVER SHALL BE CLASS 30 MINIMUM PER ASTM A-48.
  - 2) COVERS SHALL BE H-20, FULL VEHICULAR TRAFFIC LOADING, RATED AND SHALL NOT EXCEED 145 POUNDS IN WEIGHT.
  - 3) THE FRAME AND COVER SHALL BE PAINTED OR DIPPED IN ASPHALT PRIOR TO LEAVING FOUNDRY.

**MANHOLE FRAME AND COVER**

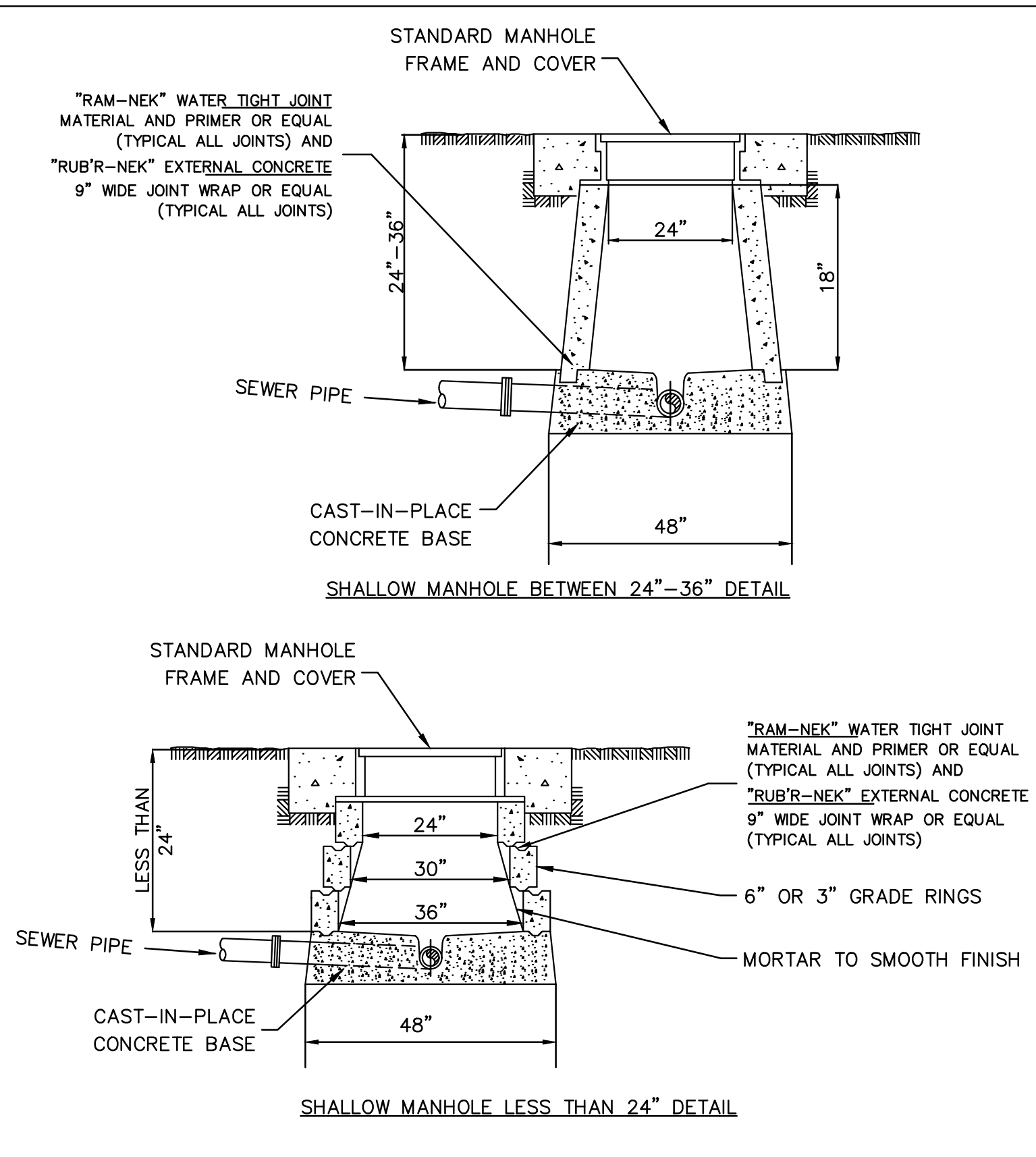


**MANHOLE FOR 24" DIAMETER AND LARGER PIPE**

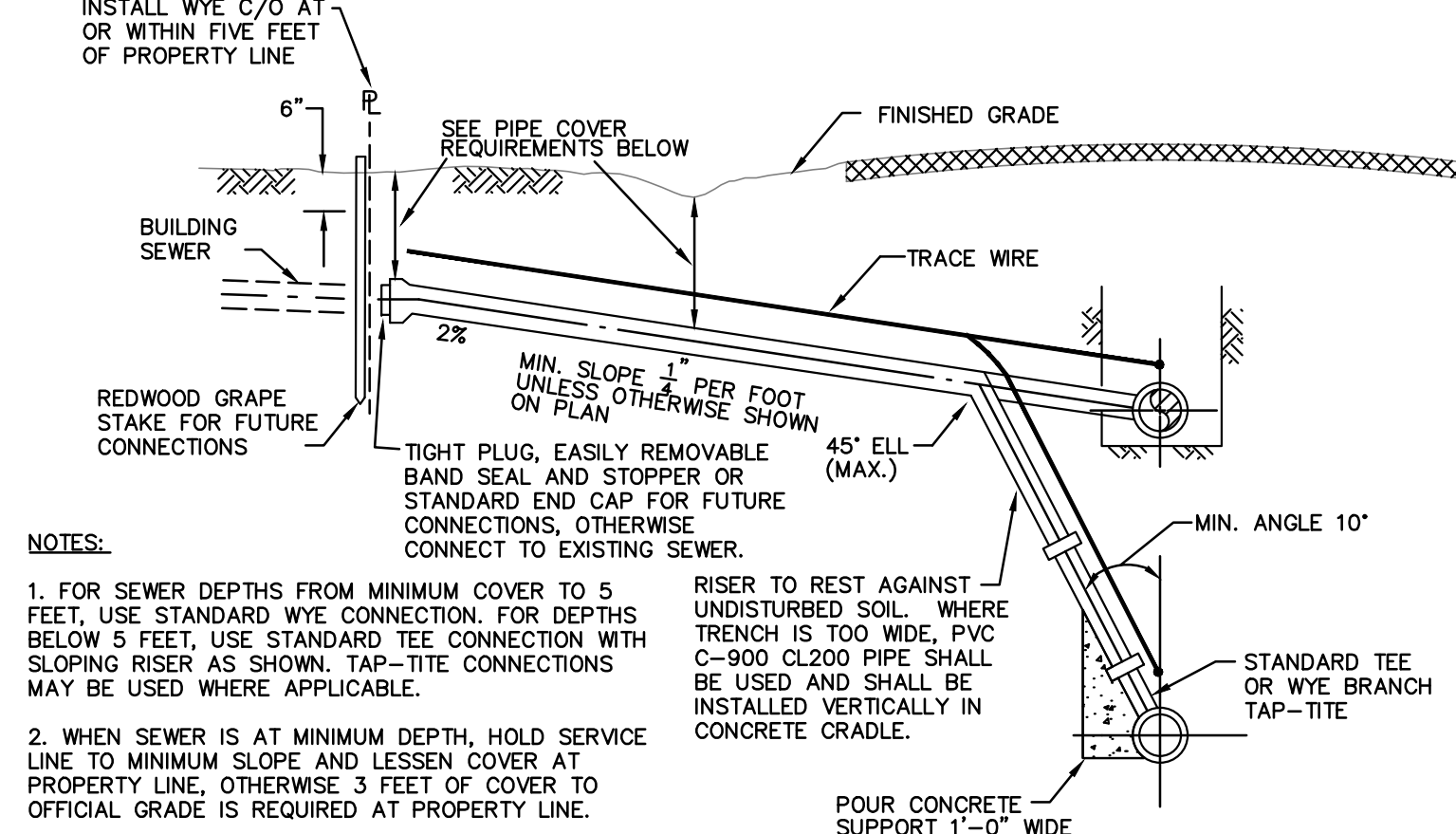


- APPLICATION:**
- 1) ALL NEW MAIN SEWER PROJECTS.
  - 2) ALL NEW OR REPLACEMENT SANITARY SEWER LATERAL CONNECTIONS.
  - 3) SANITARY SEWER LATERAL REPAIRS.

**ROOT CONTROL SYSTEM**

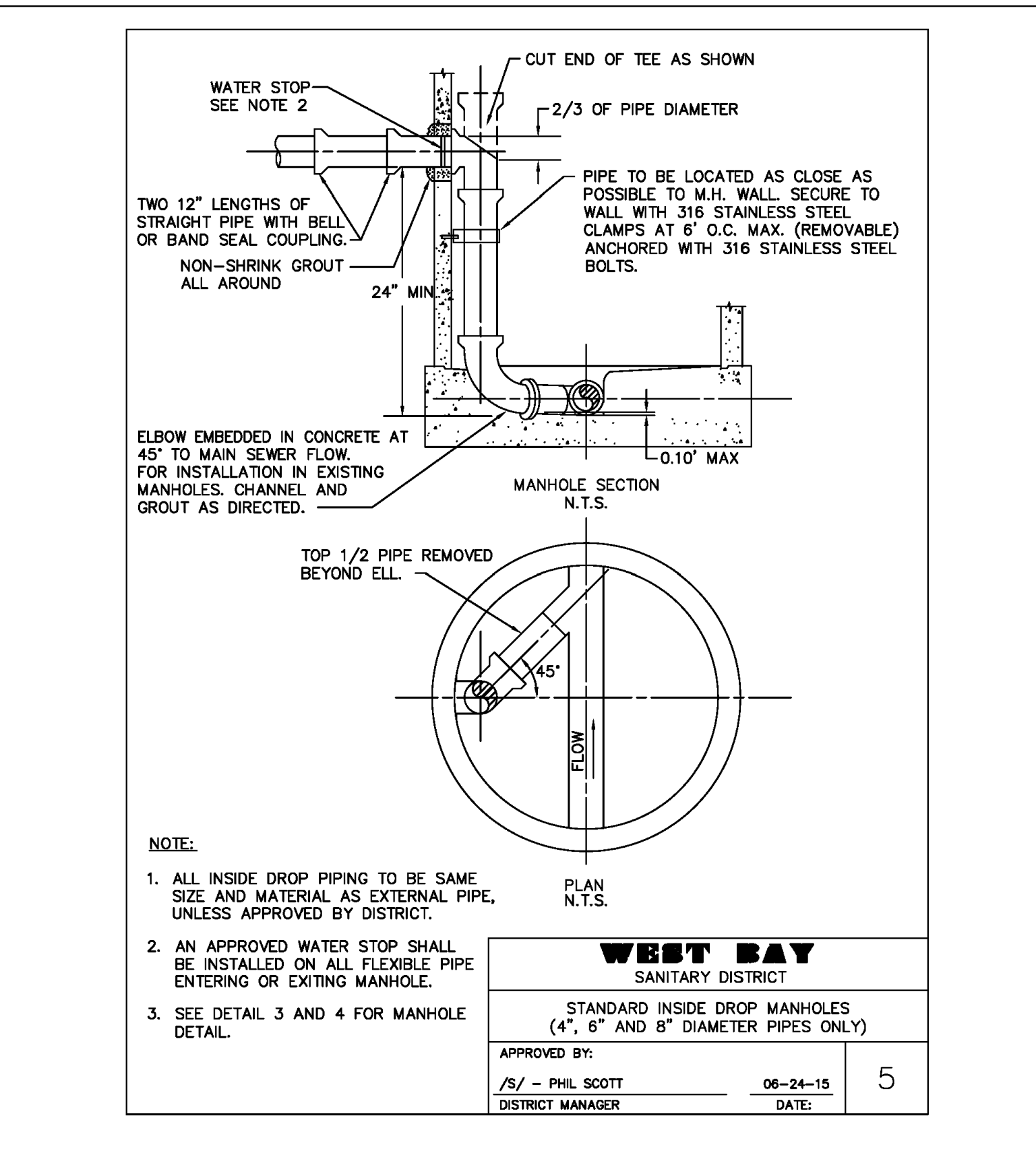


**SHALLOW MANHOLE DETAIL IN EASEMENTS WITH LIMITED ACCESS**

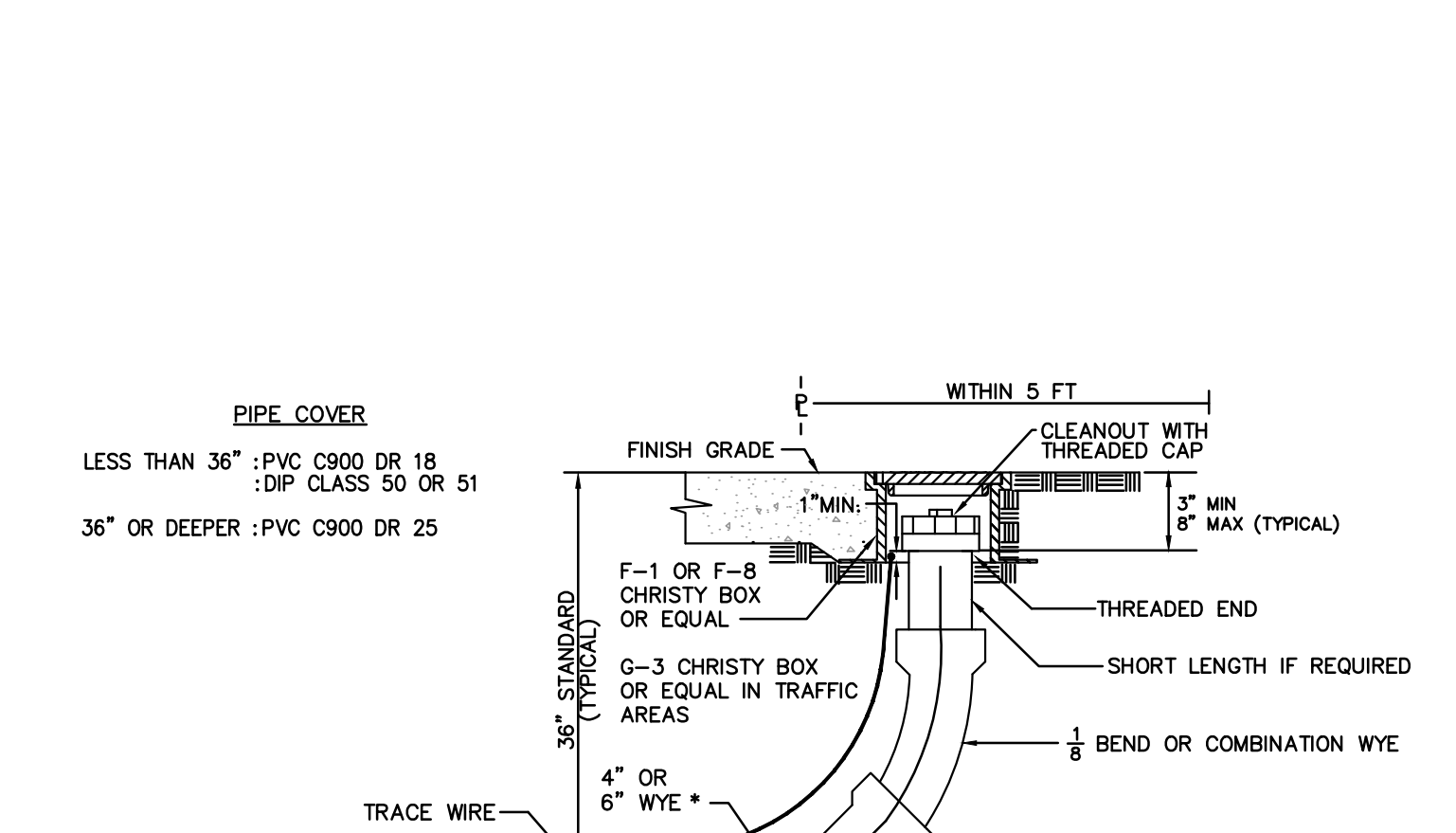


- NOTES:**
1. FOR SEWER DEPTHS FROM MINIMUM COVER TO 5 FEET, USE STANDARD WYE CONNECTION. FOR DEPTHS BELOW 5 FEET, USE STANDARD TEE CONNECTION WITH SLOPING RISER AS SHOWN. TAP-TITE CONNECTIONS MAY BE USED WHERE APPLICABLE.
  2. WHEN SEWER IS AT MINIMUM DEPTH, HOLD SERVICE LINE TO MINIMUM SLOPE, AND LESSEN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

**DEEP SEWER - GREATER THAN 10'**



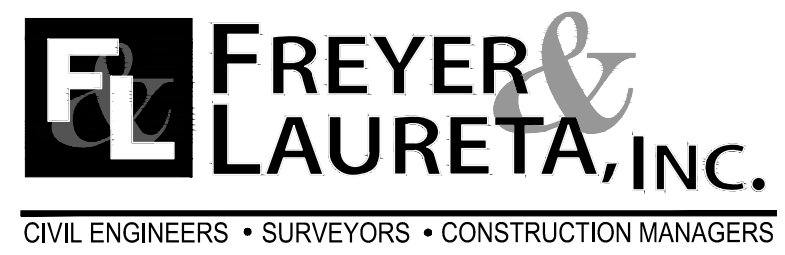
**STANDARD INSIDE DROP MANHOLES (ONLY WITH PVC)**



- 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 SERVES.
  - 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**

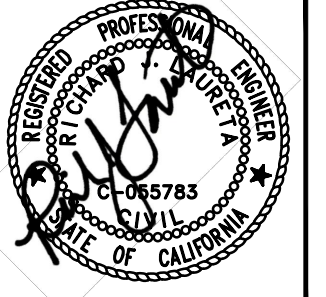
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SCALE:	AS NOTED		
DESIGNED:	AW,PJG		
DRAWN:	AW,PJG		
CHECKED:	JJF		
PROJ. ENGR:	RJL		
BY	DATE	DESCRIPTION OF REVISIONS	APP'D



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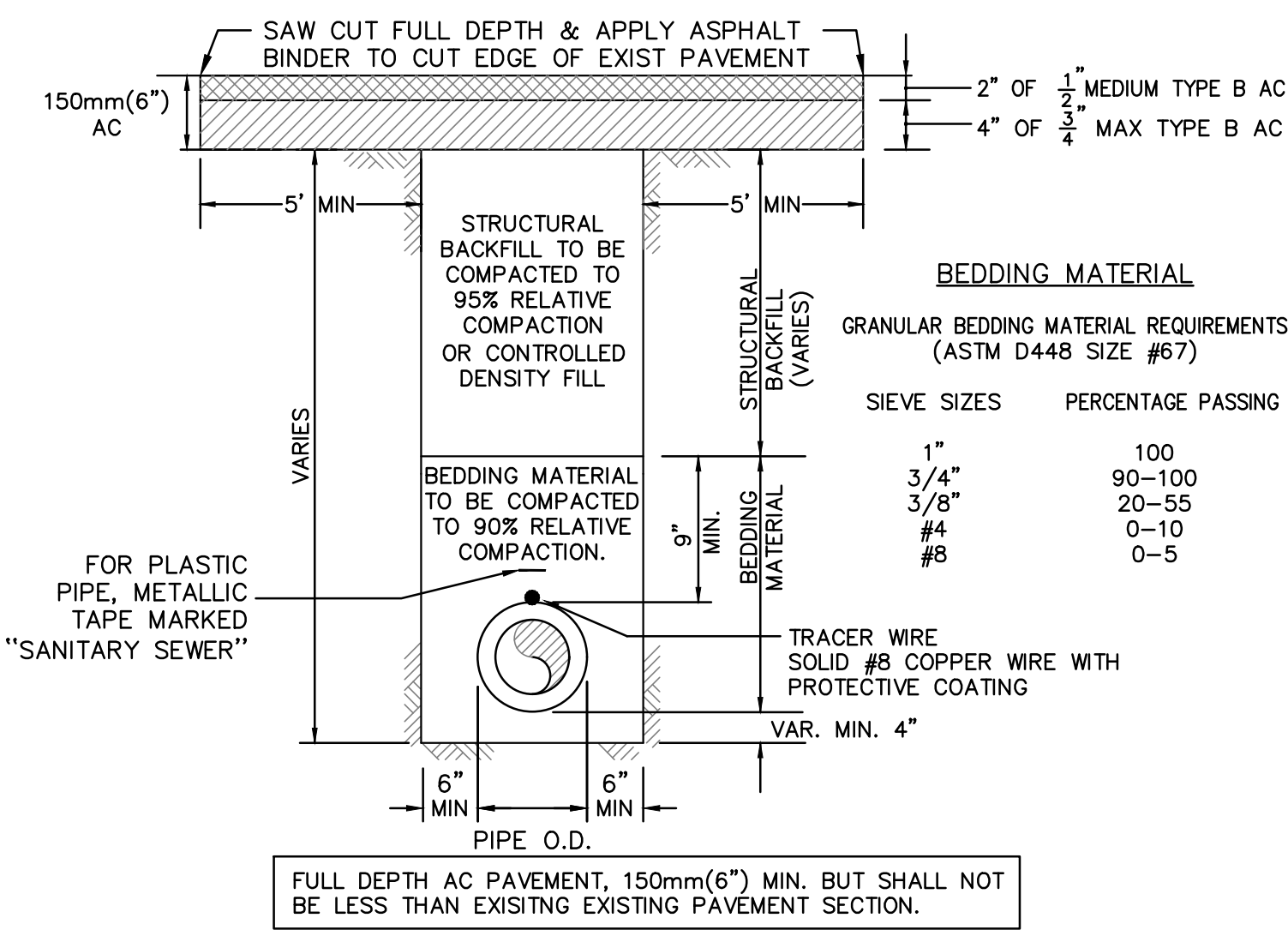
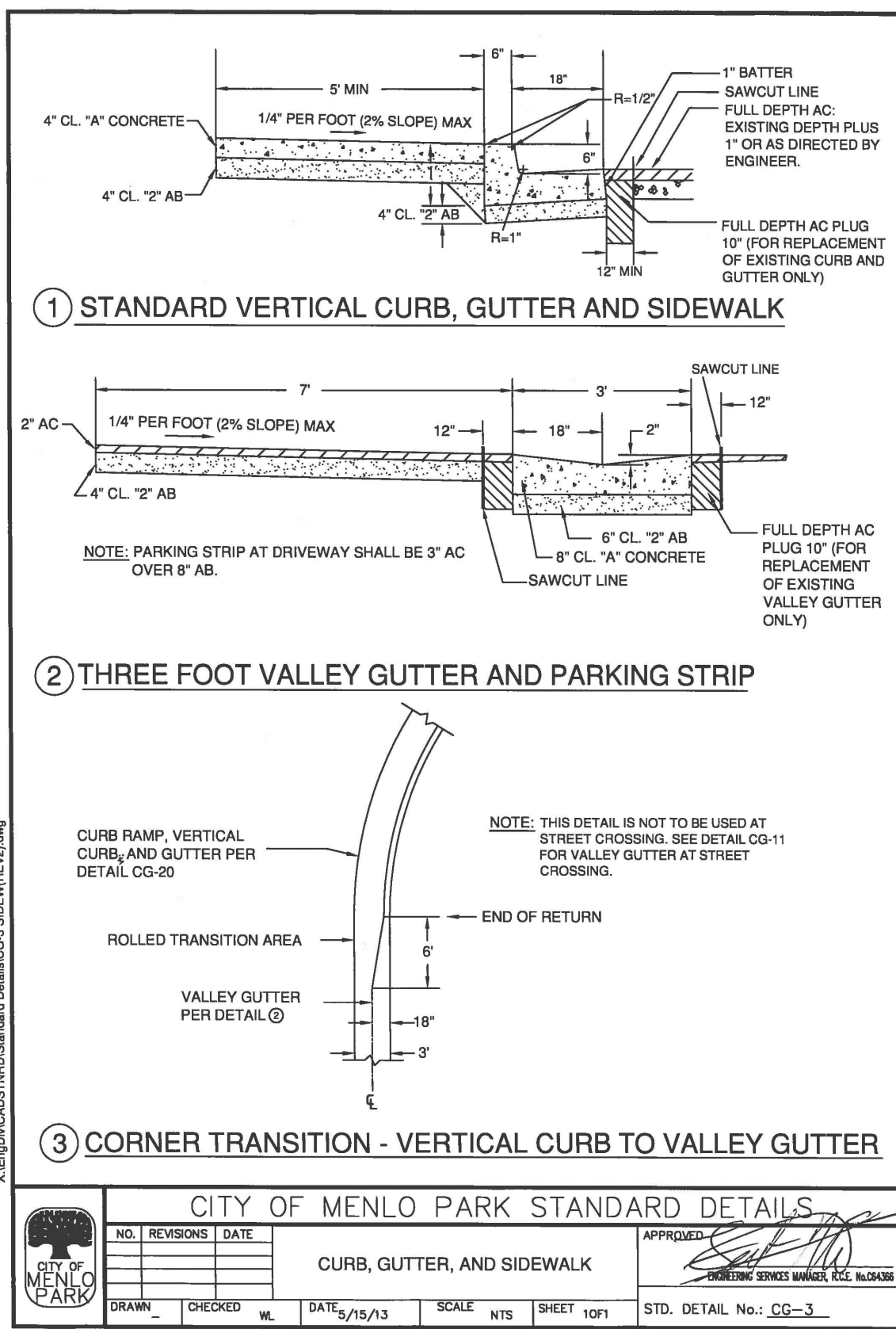
PROJECT No. 1758.7



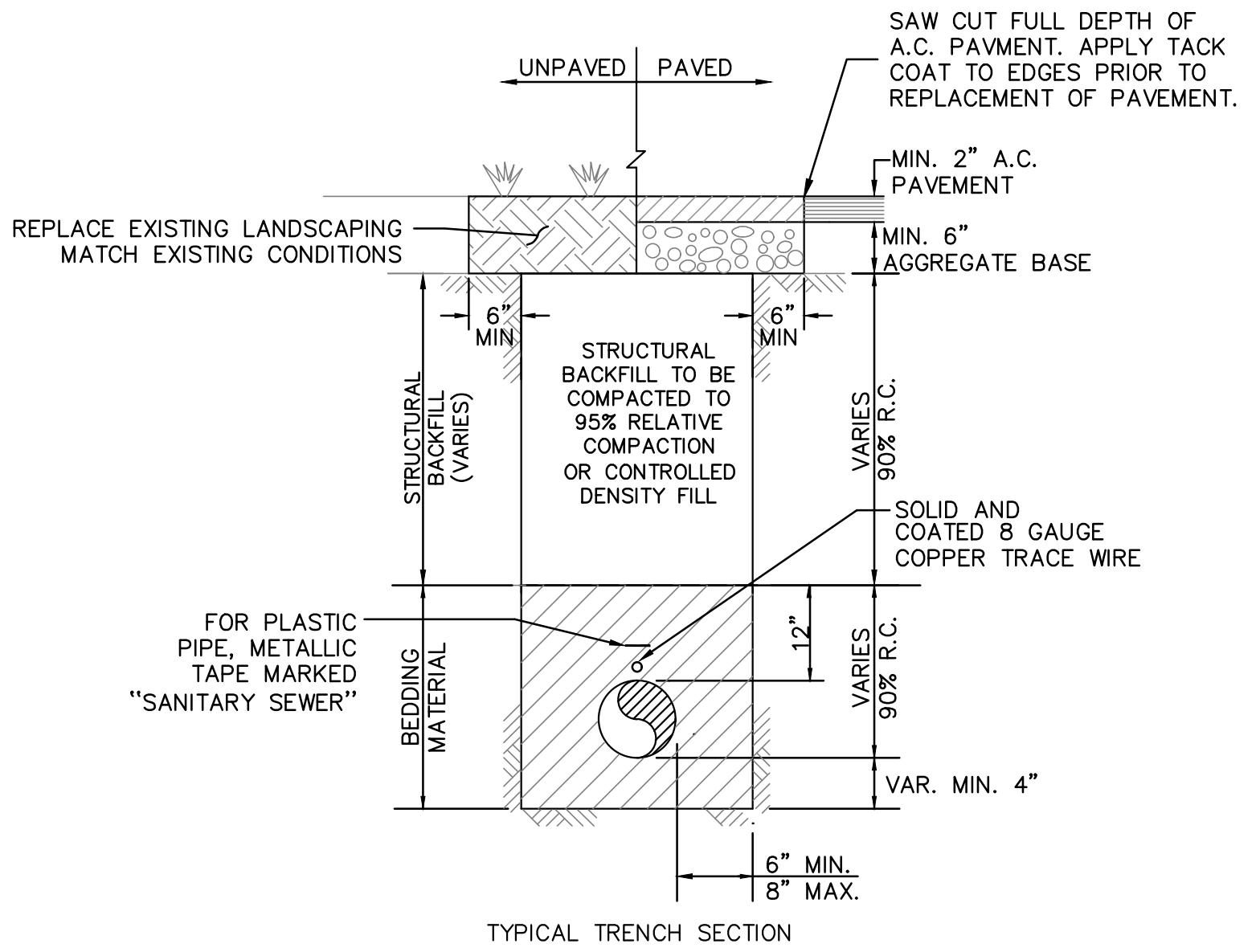
**BELLE HAVEN SEWER PROJECT PHASE III  
 DETAIL SHEET #1**

SHEET	31
JOB NO.	1075





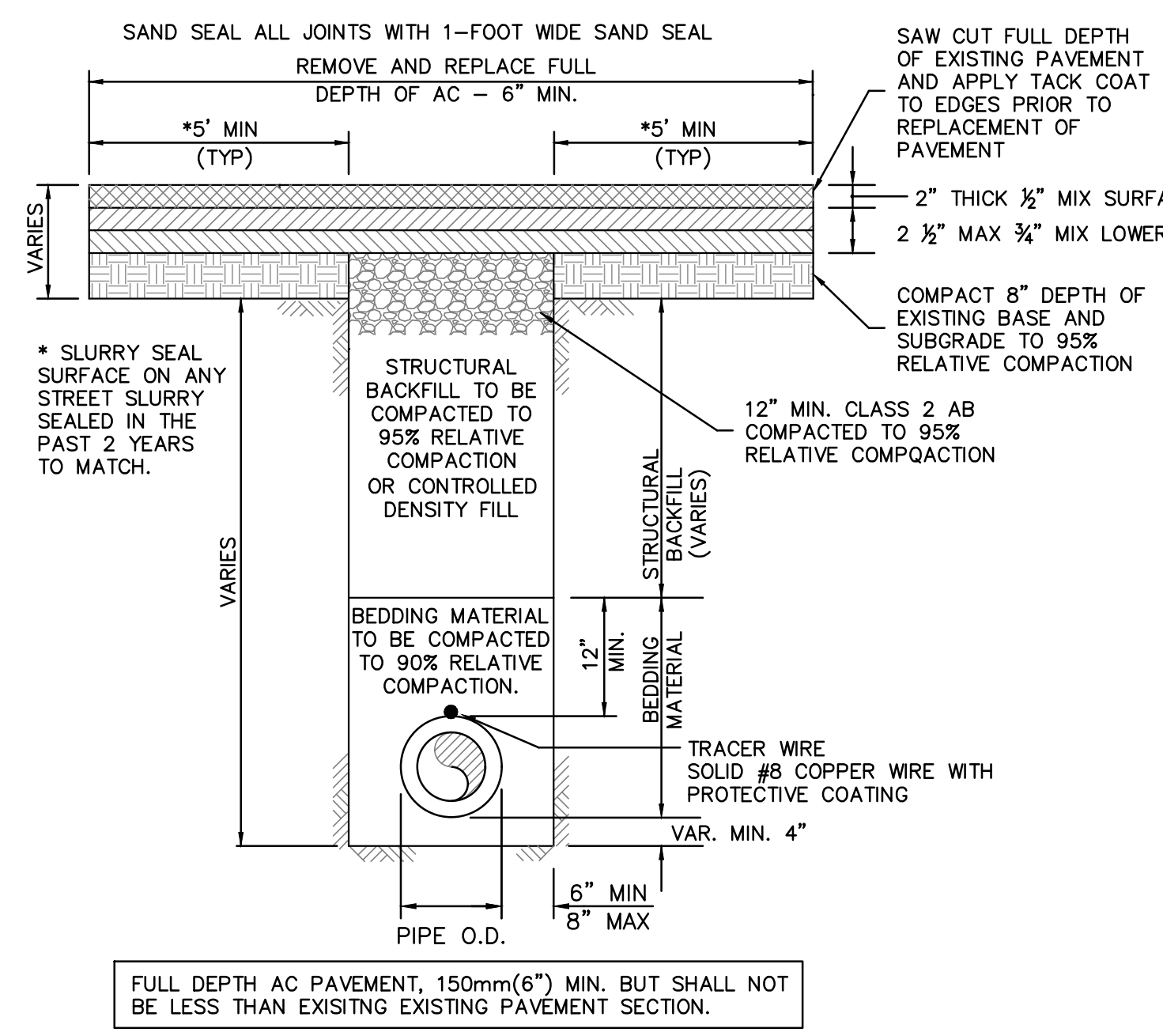
- NOTE:**
1. THE MIX DESIGN FOR CDF SHALL MEET THE FOLLOWING REQUIREMENTS:  
 CEMENT 50-100 LB/CU. YD  
 FLY ASH, CLASS F 10-2000 LB/CU. YD  
 FINE AGGREGATE 2600-3100 LB/CU.YD  
 WATER 325/580 LB/CU.YD  
 STRENGTH @ 28 DAY 50-100 PSI
  2. STRUCTURAL BACKFILL MATERIAL: MATERIAL WITH SAND EQUIVALENT NOT 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
  3. SLURRY SEALING: SEE "STANDARDS FOR TRENCH CONSTRUCTION SEAL COAT" DETAIL
  4. 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.
  5. CONTRACTOR SHALL PLACE SLURRY SEAL IN CONFORMANCE WITH CITY OF MENLO PARK STANDARD DETAIL ST-16, PER CITY OF MENLO PARK STANDARD DETAIL ST9A.



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

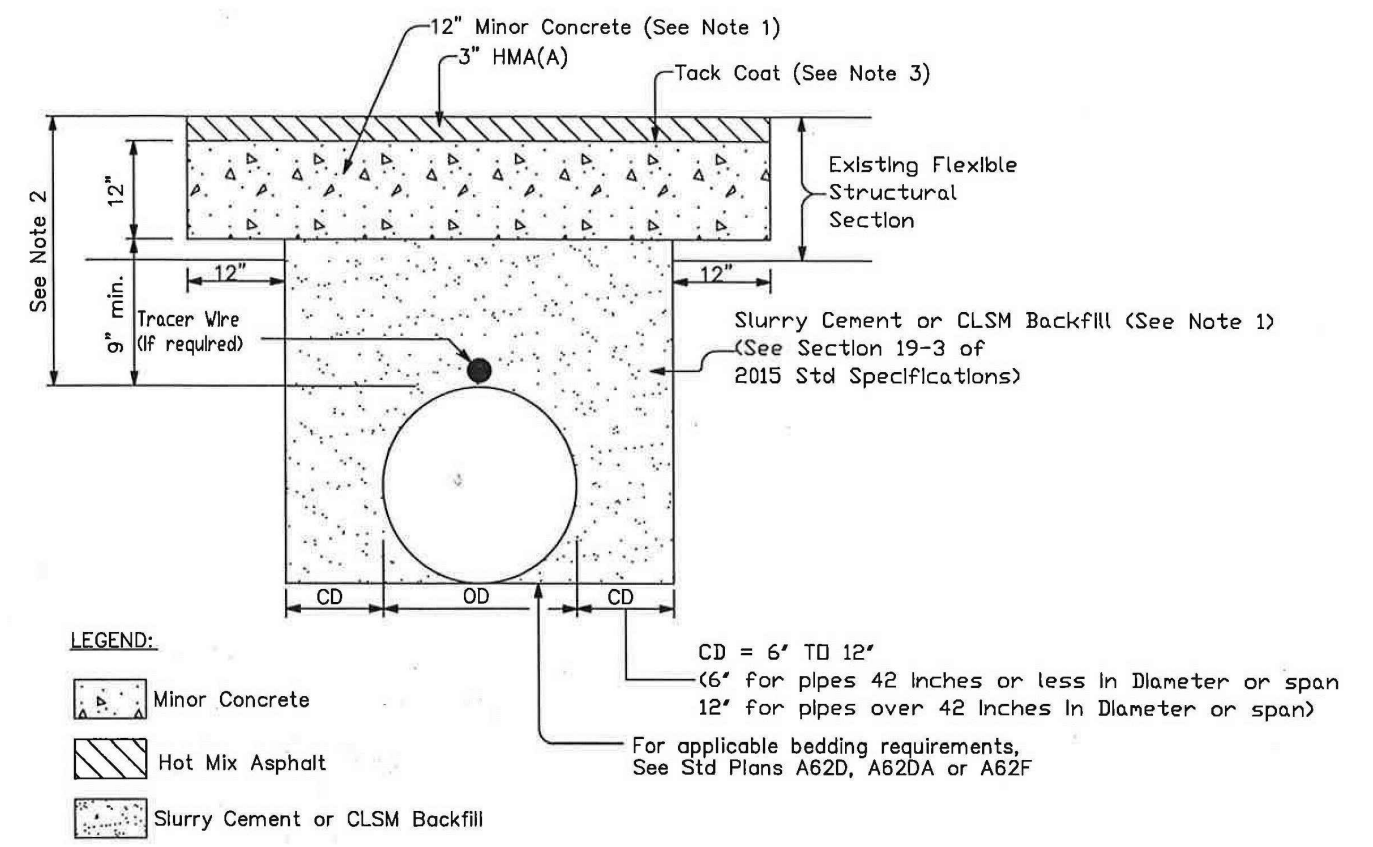
**UTILITY TRENCH-IN EASEMENT AREAS**

**STANDARDS FOR CURB, GUTTER, AND SIDEWALK**



- 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          |

**CASE 1: FOR TRAFFIC INDEX (TI) LESS THAN OR EQUAL TO 12**



- LEGEND:**
- Minor Concrete
  - Hot Mix Asphalt
  - Slurry Cement or CLSM Backfill
- NOTES:**
1. Concrete cap may be Rapid Strength Concrete (RSC) IF RSC is used, replace the Slurry Cement or CLSM Backfill with Lean Concrete Backfill or RSC depending upon the project's time constraints.
  2. For new installations, minimum depth of cover requirements are to follow guidelines in the Encroachment Permits Manual or Highway Design Manual. When cover over a replacement pipe/encasement pipe is less than 24', a Special Design is necessary (for in-house projects, refer to H&D Drainage Detail Library).
  3. Tack Coat (Asphaltic Emulsion) shall be applied prior to placing HMA(A).
  4. All trench work subject to state regulations and inspection.
  5. All materials, workmanship, testing, and inspections shall comply with Caltrans Standard Specifications and project-specific Special Provisions.
  6. Use of this detail is applicable if high groundwater conditions do not exist within the trench.
- ABBREVIATIONS:**
- CD = Clear Distance
  - HMA(A) = Hot Mix Asphalt Type A
  - OD = Outside Diameter of Utility or Culvert
  - CLSM = Controlled Low-Strength Material
- REVISED 12/12/2016

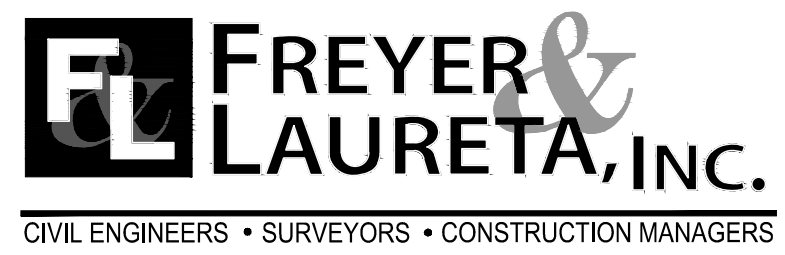
- NOTE:**
1. SAND...MATERIAL FREE FROM ORGANIC MATTER AND CLAY WITH A SIEVE GRADATION BY WEIGHT AS FOLLOWS:  
 SIEVE SIZES PERCENTAGE PASSING  
 #4 100  
 #200 0-5
  2. STRUCTURE BACKFILL MATERIAL...MATERIAL WITH SAND EQUIVALENT NOT LESS THAN 20 AND SIEVE GRADATION BY WEIGHT AS FOLLOWS:  
 SIEVE SIZES PERCENTAGE PASSING  
 3" 100  
 #4 35-100  
 #30 20-100
  3. 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
  4. 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.

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

**UTILITY TRENCH-CALTRANS-RIGHT OF WAY (EL CAMINO REAL)**

**UTILITY TRENCH-SAN MATEO COUNTY-RIGHT OF WAY (MODIFIED PER SAN MATEO COUNTY STANDARDS)**

DATE	BY	DATE	DESCRIPTION OF REVISIONS	APP'D
02/08/18		02/15/18	ISSUED FOR BOARD REVIEW	
SCALE: AS NOTED				
DESIGNED: AW,PJG				
DRAWN: AW,PJG				
CHECKED: JJF				
PROJ. ENGR: RJL				



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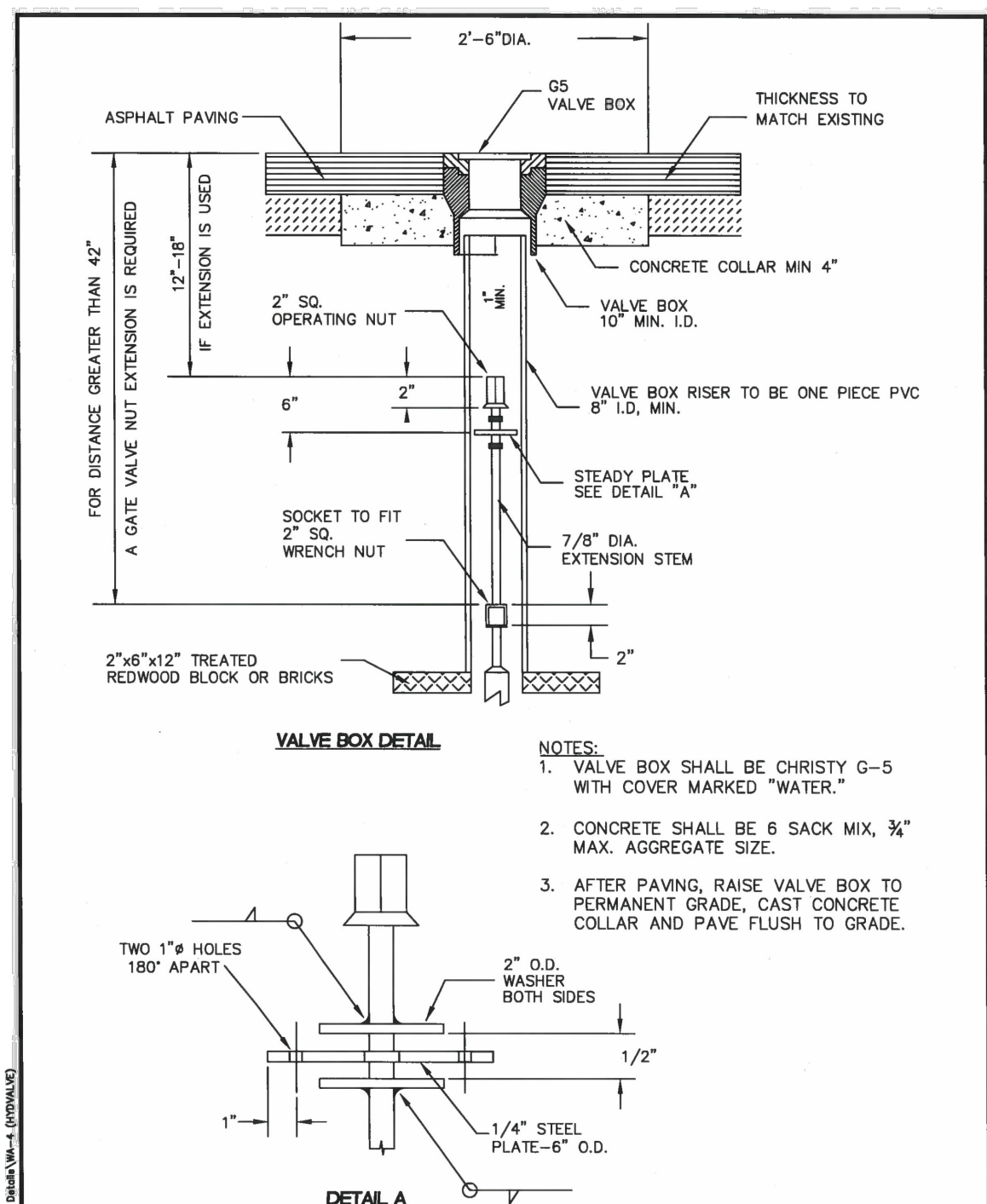


PROJECT No. 1758.7

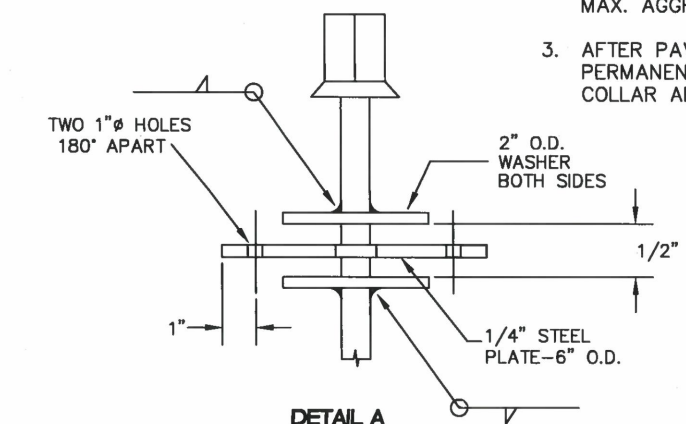


**BELLE HAVEN SEWER PROJECT PHASE III DETAIL SHEET #2**

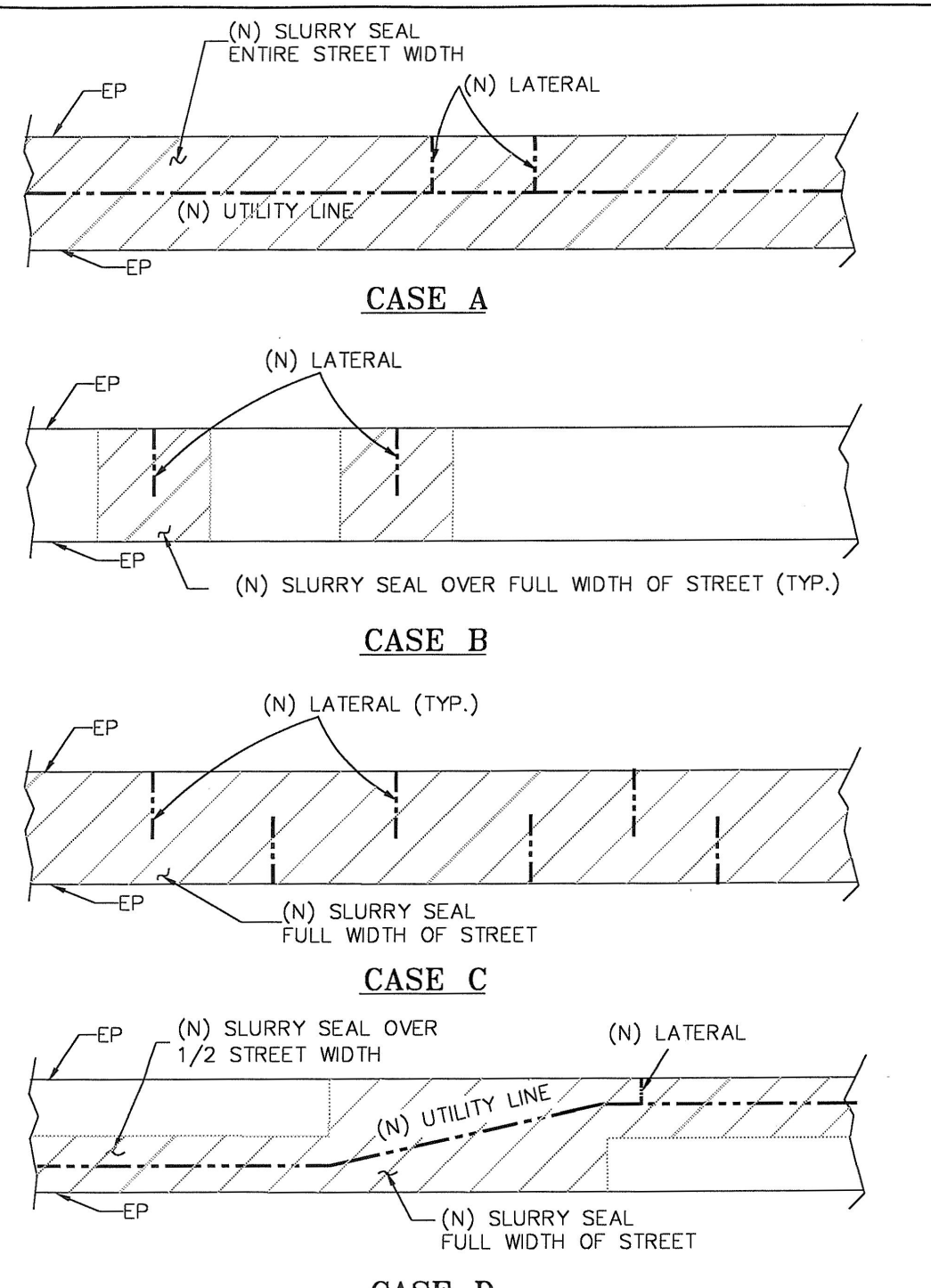
SHEET	32
JOB NO.	1075



- NOTES:**
1. VALVE BOX SHALL BE CHRISTY G-5 WITH COVER MARKED "WATER."
  2. CONCRETE SHALL BE 6 SACK MIX, 3/4" MAX. AGGREGATE SIZE.
  3. AFTER PAVING, RAISE VALVE BOX TO PERMANENT GRADE, CAST CONCRETE COLLAR AND PAVE FLUSH TO GRADE.



**CITY OF MENLO PARK STANDARD DETAILS**  
**VALVE BOX INSTALLATION**  
 DRAWN: E.E. CHECKED: VP. DATE: 2/14/12 SCALE: NTS SHEET: 1 OF 1  
 APPROVED: [Signature] ENGINEERING SERVICES MANAGER, R.C.E. No. 70732  
 STD. DETAIL No.: WA-4



**CITY OF MENLO PARK STANDARD DETAILS**  
**STANDARDS FOR TRENCH CONSTRUCTION SEAL COAT**  
 DRAWN: E.E. CHECKED: NN. DATE: 3-6-02 SCALE: NTS SHEET: 1 OF 1  
 APPROVED: [Signature] Director of Engineering Services R.C.E. No. 6592  
 STD. DETAIL No.: ST-16

**STANDARDS FOR TRENCH CONSTRUCTION SEAL COAT**

DATE:	02/08/18	02/15/18	ISSUED FOR BOARD REVIEW	
SCALE:	AS NOTED			
DESIGNED:	AW,PJG			
DRAWN:	AW,PJG			
CHECKED:	JJF			
PROJ. ENGR:	RJL			
BY	DATE	DESCRIPTION OF REVISIONS	APP'D	

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**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY  
 PROJECT No. 1758.7



**BELLE HAVEN SEWER PROJECT PHASE III**  
**DETAIL SHEET #3**

SHEET	33
JOB NO.	1075