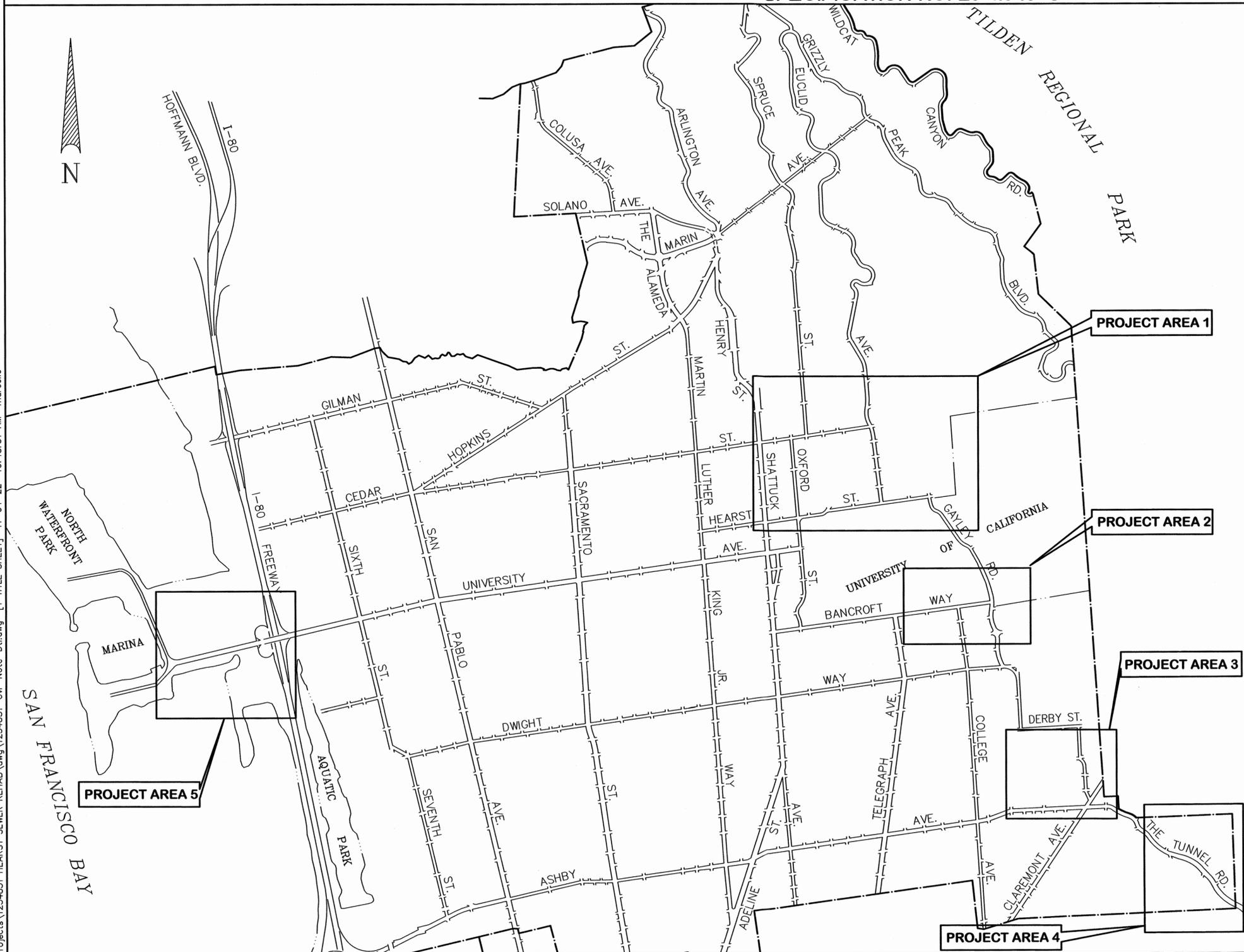


# CITY OF BERKELEY, CALIFORNIA SANITARY SEWER REHABILITATION

**HEARST AVENUE ET AL  
SPECIFICATION NO. 23-11545-C**

## INDEX OF DRAWINGS

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3	VICINITY MAP AND SHEET KEY
4	GENERAL NOTES, LEGEND & ABBREVIATIONS
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7	HEARST AVENUE @ SPRUCE ST, AND LE CONTE TO EUCLID PLAN AND PROFILE
8	HEARST AVENUE LE CONTE TO EUCLID PLAN AND PROFILE
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10	HEARST AVENUE LE CONTE TO EUCLID, @ LA LOMA AVE PLAN AND PROFILE
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12	SCENIC AVENUE PLAN AND PROFILE
13	EUCLID AVENUE PLAN AND PROFILE
14	EUCLID AVENUE PLAN AND PROFILE
15	LE CONTE AVENUE PLAN AND PROFILE
16	ARCH STREET PLAN AND PROFILE
17	CEDAR STREET @ EUCLID AVENUE PLAN AND PROFILE
18	LA LOMA AVENUE @ HILGARD AVENUE & VIRGINIA STREET PLAN AND PROFILE
19	LEROY AVENUE, LA LOMA AVENUE @ RIDGE ROAD PLAN AND PROFILE
20	LEROY AVENUE: @ HILLSIDE SCHOOL PLAN AND PROFILE
21	PIEDMONT AVENUE PLAN AND PROFILE
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23	PIEDMONT AVENUE, HILLSIDE AVENUE PLAN AND PROFILE
24	DURANT AVENUE AND BANCROFT AVE @ TELEGRAPH AVE PLAN AND PROFILE
25	KELSEY STREET PLAN AND PROFILE
26	PALM COURT PLAN AND PROFILE
27	RUSSELL BACKLINE PLAN AND PROFILE
28	RUSSELL BACKLINE PLAN AND PROFILE
29	RUSSELL BACKLINE PLAN AND PROFILE
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31	AVALON BACKLINE PLAN AND PROFILE
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33	GARBER BACKLINE, BELROSE AVE @ GARBER STREET PLAN AND PROFILE
34	BELROSE BACKLINE PLAN AND PROFILE
35	UNIVERSITY AVENUE PLAN AND PROFILE
36	UNIVERSITY AVENUE PLAN AND PROFILE
37	UNIVERSITY AVENUE PLAN AND PROFILE
38	UNIVERSITY AVENUE PLAN AND PROFILE
39	ALVARADO ROAD PLAN AND PROFILE
40	ALVARADO ROAD PLAN AND PROFILE
41	ALVARADO ROAD PLAN AND PROFILE
42	ALVARADO ROAD PLAN AND PROFILE
43	ALVARADO ROAD PLAN AND PROFILE
44	ALVARADO ROAD PLAN AND PROFILE
45	ALVARADO ROAD PLAN AND PROFILE
46	ALVARADO ROAD PLAN AND PROFILE
47	ALVARADO ROAD PLAN AND PROFILE
48	DETAIL SHEET
49	DETAIL SHEET



**LOCATION MAP**

SCALE: 1"=1200'

PROJECT MANAGER:  DATE: 11/7/22	DEPICTION OF MONUMENTS: DATE: _____	SUBMITTED:  SUPERVISING CIVIL ENGINEER DATE: 11/7/22	DATE: 11/03/22 R.C.E. 571 827 EXP. 23 MAR 23 DATE: 11/8/22 R.C.E. 49027 EXP. _____
WATERSHED REVIEW:  DATE: 11/7/22	APPROVED:  CITY ENGINEER	DESIGN: ERG DRAWN: JM/ERG CHECK: LML AS BUILT: _____	HORIZ. _____ VERT. _____ BOOK _____ DATE: 11/03/2022

**COASTLAND | DCCM**  
 11641 Blocker Dr, Ste 170, Auburn, CA 95603  
 530.888.9929 | coastlandcivil.com

LAURIE M. LOAIZA  
 11/03/2022  
 DATE



**CITY OF BERKELEY**  
 DEPARTMENT OF PUBLIC WORKS  
**SANITARY SEWER REHABILITATION**  
**TITLE SHEET**  
**LOCATION MAP & INDEX OF DRAWINGS**

REVISION	MARK	DATE	DESCRIPTION	APPROVAL

T:\Civil 3D Projects\1234831 HEARST SEWER REHAB.dwg\1234831-Cvr-Note-Dtl.dwg [1 TITLE SHEET] 11-04-22 10:48:31 AM marcelle

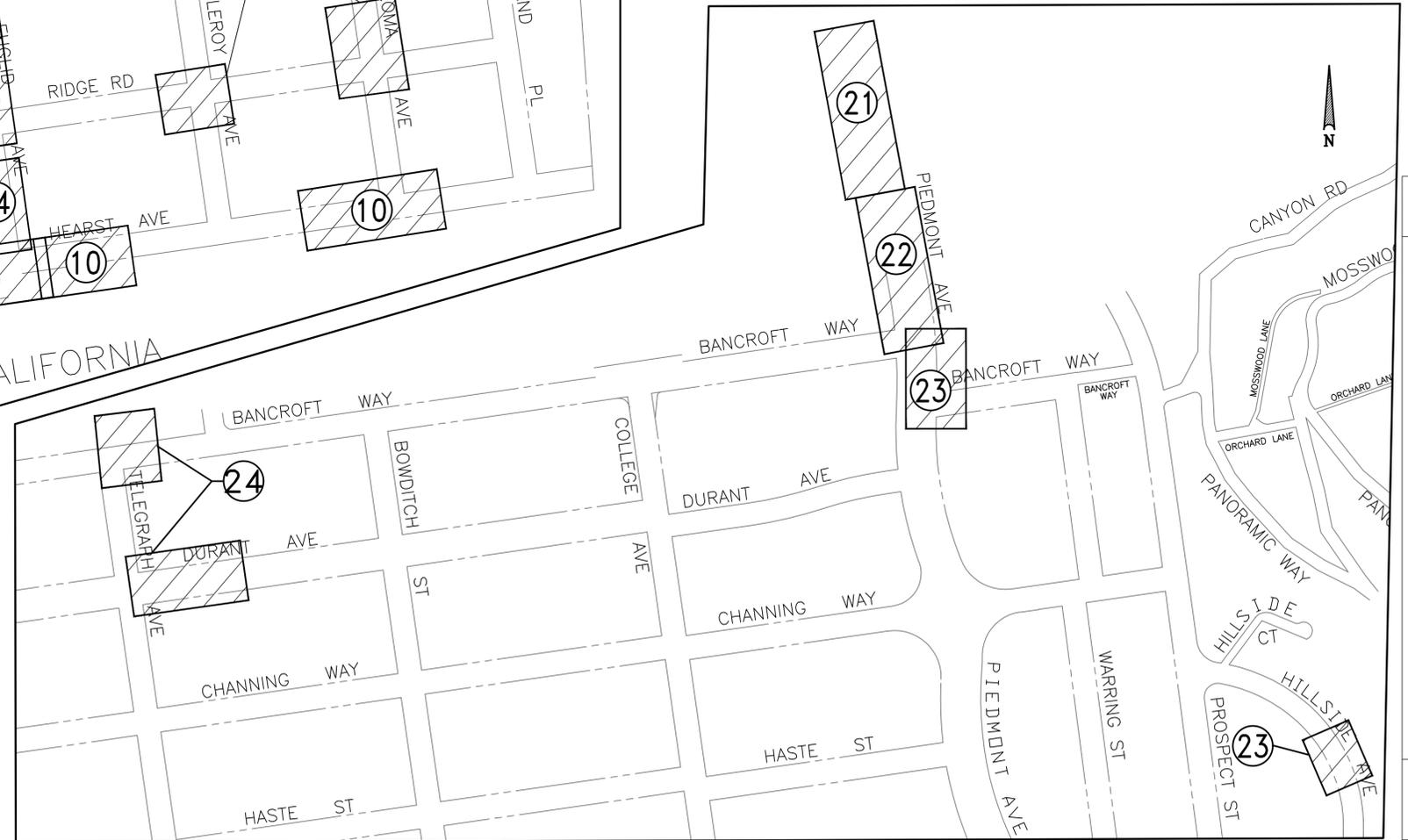
PLAN 8240  
 FILE 502-704  
 SHEET 1 OF 49

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**PROJECT AREA 1  
VICINITY MAP**

SCALE: 1"=200'



**PROJECT AREA 2  
VICINITY MAP**

SCALE: 1"=200'

*Laurie M. Loaiza*  
LAURIE M. LOAIZA  
No. C65951  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF CALIFORNIA  
CIVIL  
11/03/2022  
DATE

**COASTLAND | BCCM**  
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PROJECT MANAGER: _____ DATE _____	DEPICTION OF MONUMENTS: _____ DATE _____	SUBMITTED: _____ DATE _____	DESIGN: _____ ERG	HORIZ. 1" = 200'
SURVEY PARTY CHIEF: _____	SURVEYING: _____ DATE _____	SUPERVISING CIVIL ENGINEER: _____	DRAWN: _____ JM/ERG	VERT. _____
WATERSHED REVIEW: _____ DATE _____	APPROVED: _____ DATE _____	CITY ENGINEER: _____	CHECK: _____ LML	BOOK: _____
FOR REDUCED PLANS - ORIGINAL SCALE IS IN INCHES			AS BUILT: _____	DATE 11/03/2022

**CITY OF BERKELEY**  
DEPARTMENT OF PUBLIC WORKS

**SANITARY SEWER REHABILITATION  
VICINITY MAP  
AND SHEET KEY**

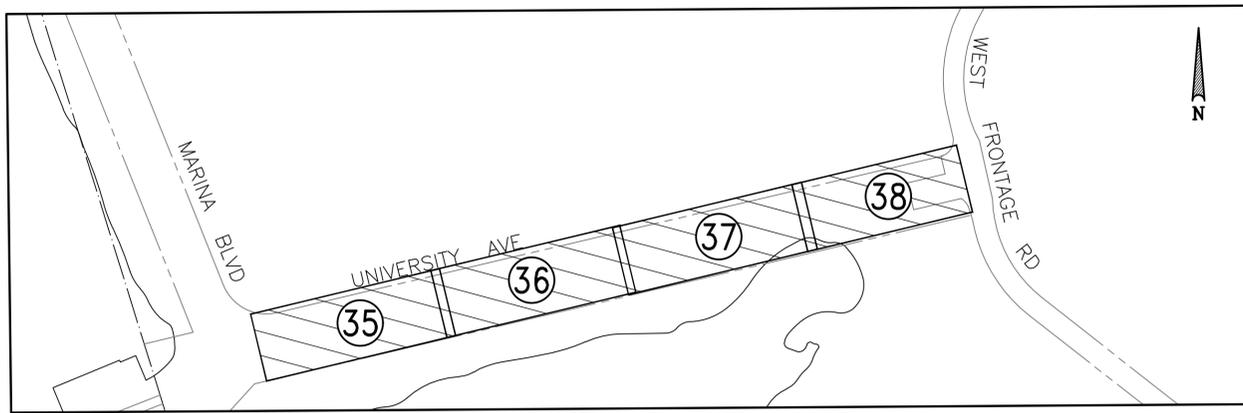
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FILE 502-704  
SHEET 2 OF 49

REVISION	MARK	DATE	DESCRIPTION	APPROVAL

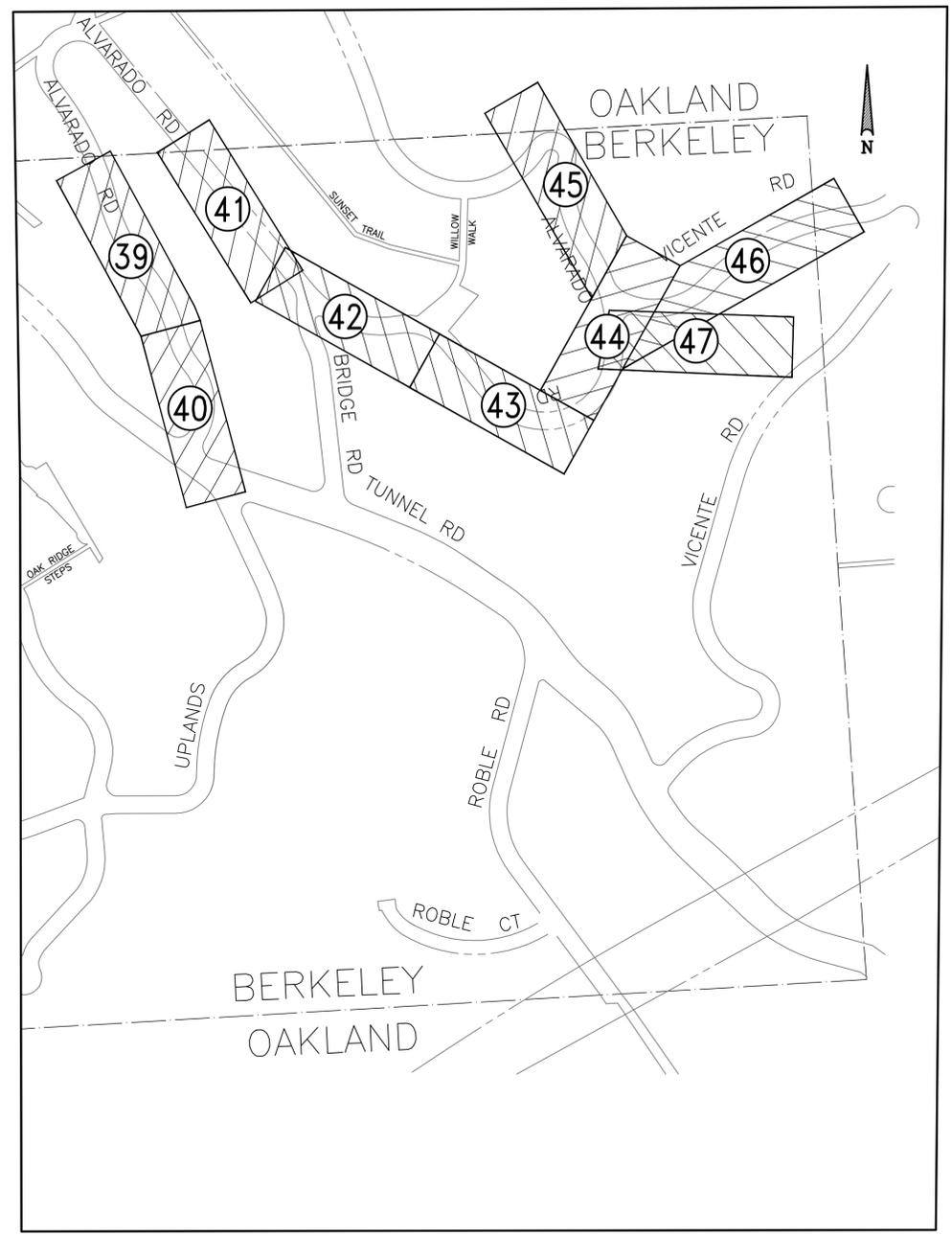
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**PROJECT AREA 3  
VICINITY MAP**  
SCALE: 1"=200'



**PROJECT AREA 5  
VICINITY MAP**  
SCALE: 1"=200'



**PROJECT AREA 4  
VICINITY MAP**  
SCALE: 1"=200'

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PROJECT MANAGER:	DATE	DEPICTION OF MONUMENTS:	DATE
SURVEY PARTY CHIEF:		WATERSHED REVIEW:	DATE

SUBMITTED:	DATE	DESIGN:	ERG
SUPERVISING CIVIL ENGINEER:	R.C.E.	DRAWN:	JM/ERG
APPROVED:	DATE	CHECK:	LML
CITY ENGINEER:	R.C.E.	AS BUILT:	

HORIZ.:	1" = 200'
VERT.:	###
BOOK:	
DATE:	11/03/2022

**CITY OF BERKELEY**  
DEPARTMENT OF PUBLIC WORKS

**SANITARY SEWER REHABILITATION  
VICINITY MAP  
AND SHEET KEY**

*Laurie M. Loaiza*  
LAURIE M. LOAIZA  
No. C65951  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF CALIFORNIA  
CIVIL  
11/03/2022 DATE

REVISION	MARK	DATE	DESCRIPTION	APPROVAL

PLAN 8240  
FILE 502-704  
SHEET 3 OF 49

GENERAL NOTES

1. THE LOCATIONS AND/OR ELEVATIONS OF UNDERGROUND UTILITIES AND STRUCTURES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT 811 AT LEAST FOUR WORKING DAYS BEFORE EXCAVATING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE EXISTING UTILITIES IN ACCORDANCE WITH SPECIFICATIONS.

SHOWN ON THE APPROVED PLANS. PRIOR TO THE START OF WORK, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR REVIEW AND APPROVAL THE CUT SHEETS OF THE PROPOSED SEWER WORK. FOR ADDITIONAL INFORMATION, REFER TO BID ITEM "CONSTRUCTION STAKING AND CUT SHEETS" AND SPECIAL CONDITION NO. 17 OF THE SPECIAL PROVISIONS AND SUBSECTION 501.7 OF THE GENERAL PROVISIONS.

ABBREVIATIONS

Table with 2 columns: Abbreviation and Description. Includes entries like ABAN (ABANDONED), AC (ASPHALT CONCRETE), BC (BEGIN CURVE), etc.

SEWER REPLACEMENT METHODS

METHOD "A" - CURED-IN-PLACE PIPE LINER (CIPP LINER), DEFORMED RE-FORMED HDPE PIPE LINER. METHOD "B" - PIPE SPLITTING METHOD. USE HDPE PIPE SDR-17. METHOD "C" - TRADITIONAL OPEN TRENCH REPLACEMENT. USE HDPE SDR-17.

LEGEND

Table with 2 columns: Symbol and Description. Includes symbols for sewer lines, manholes, maintenance holes, and various utility lines.

EBMUD NOTES

1. LARGE DIAMETER MAINS (GREATER THAN 20") AND EBMUD AQUEDUCTS ARE CRITICAL FACILITIES. CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING NEAR LARGE DIAMETER WATER MAINS AND ALL OTHER WATER MAINS.

\* IF PIPE IS INCREASING FROM 6" TO 8" USING 10" EXPANDER HEAD, UTILITY CLEARANCES SHALL BE NO LESS THAN 2- FEET. \* IF PIPE IS INCREASING FROM 8" TO 10" USING 12" EXPANDER HEAD, UTILITY CLEARANCES SHALL BE NO LESS THAN 2- FEET.

4. UNLESS OTHERWISE NOTED, WHERE METHOD "C" IS CALLED FOR AT WATER MAIN CROSSINGS WITH LESS THAN 12" CLEARANCE, CONTRACTOR SHALL OMIT THE CONCRETE CRADLE INSTALLATION AND BACKFILL WITH 2-SACK CEMENT SAND SLURRY.

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PROJECT MANAGER: DATE DEPICTION OF MONUMENTS: DATE SURVEY PARTY CHIEF: DATE WATERSHED REVIEW: DATE

SUBMITTED: DATE R.O.E. EXP. SUPERVISING CIVIL ENGINEER: DATE R.O.E. EXP. APPROVED: DATE R.O.E. EXP. CITY ENGINEER: DATE

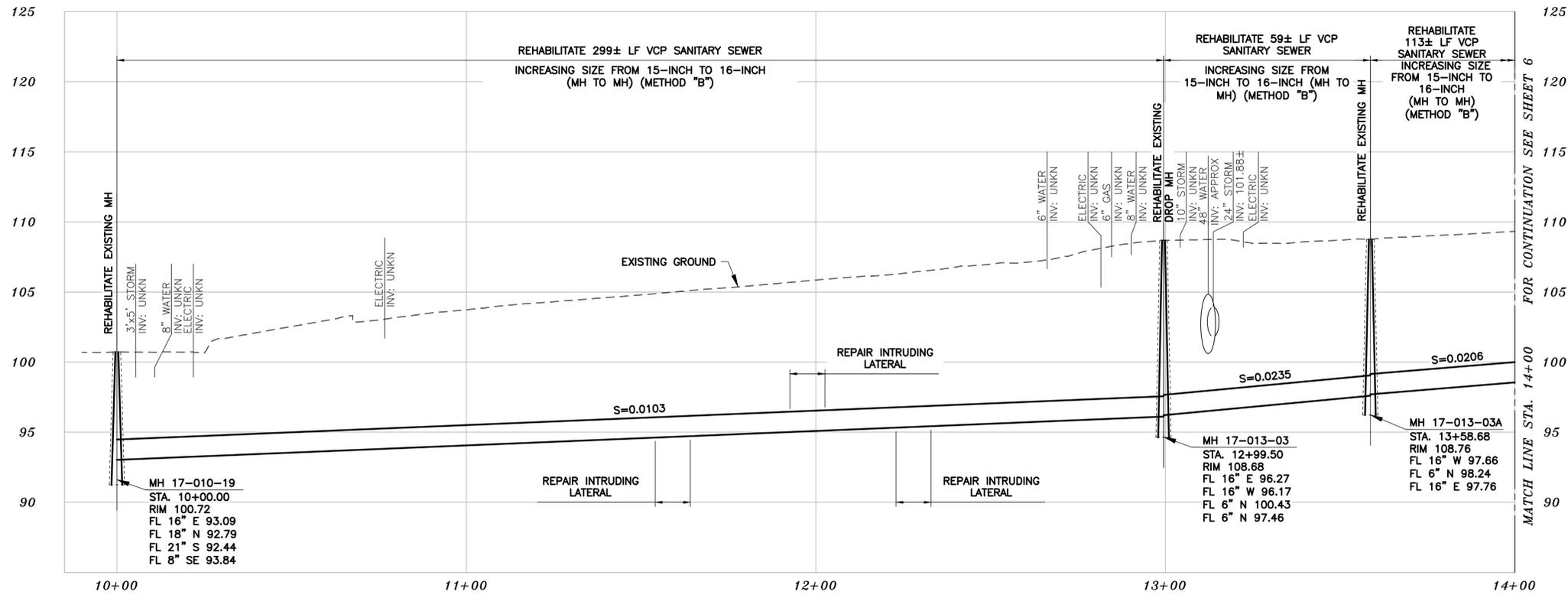
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HORIZ. VERT. BOOK DATE 11/03/2022

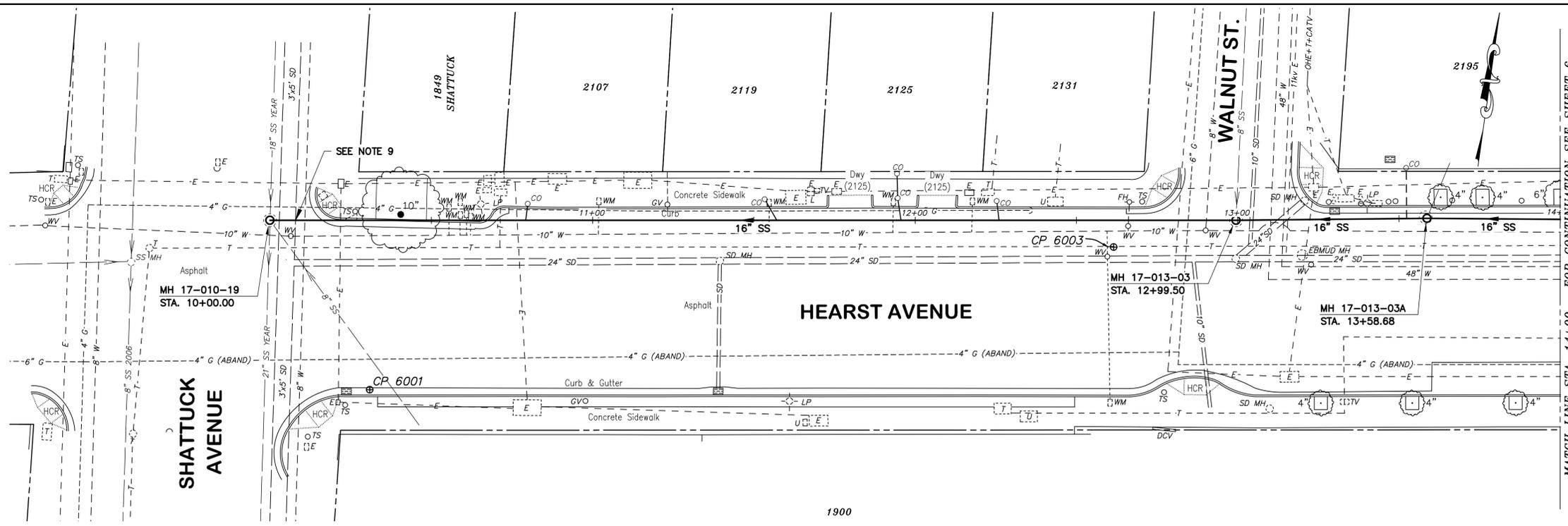
CITY OF BERKELEY DEPARTMENT OF PUBLIC WORKS SANITARY SEWER REHABILITATION GENERAL NOTES, LEGEND & ABBREVIATIONS PLAN 8240 FILE 502-704 SHEET 4 OF 49

Professional Engineer Seal for Laurie M. Loaiza, No. C65951, State of California, Civil Engineer.

T:\Civil\_3D Projects\1234831 HEARST SEWER REHAB\dwg\1234831-Cvr-Note-Dtl.dwg [4: GENERAL NOTES LEGEND] 11-04-22 10:49:01 AM marcelle



# PROFILE



## SANITARY SEWER LAYOUT - HEARST AVE

STATION	Δ OR BEARING	DISTANCE	RADIUS	DESCRIPTION
10+00.00	N81°59'54.49"E	299.50'	---	MH 17-010-19
12+99.50	N81°26'43.87"E	59.18'	---	MH 17-013-03
13+58.68	N82°26'16.43"E	41.32'	---	MH 17-013-03A
14+00.00	---	---	---	MATCH LINE

# PLAN

THE TOPOGRAPHIC SURVEY FOR THIS PORTION OF THE PROJECT IS NOT ON THE CITY OF BERKELEY DATUM. AT CITY REQUEST, SURVEYOR USED AN ASSUMED LOCAL CONTROL AT EACH SITE. GROUND ELEVATIONS, MANHOLE RIM AND INVERT ELEVATIONS, ETC. SHALL NOT BE USED FOR PURPOSES OUTSIDE OF THIS PROJECT.

- NOTES:
- FOR GENERAL NOTES SEE SHEET 4 OF THE PLANS.
  - LOCATE, RECONSTRUCT, EXTEND AND CONNECT ACTIVE LATERALS TO NEW SEWER MAIN. REMOVE EXISTING CLEANOUTS AND PROVIDE TWO-WAY CLEANOUTS WITH RISER, FRAME, CONCRETE COLLAR AND COVER.
  - LOWER LATERALS SHALL BE HDPE SDR-17.
  - RECONSTRUCT CITY MONUMENTS DISTURBED BY SEWER INSTALLATION. REFER TO STANDARD DETAIL PLAN NOS. 8090 & 8091 OF THE SPECIFICATIONS.
  - IN ACCORDANCE WITH SPECIAL CONDITION NO. 13 IN THE SPECIAL PROVISIONS, PRIOR TO EXCAVATION, CONTRACTOR SHALL POTHOLE AND VERIFY THE LOCATION AND DEPTH OF EXISTING STORM DRAINS, SANITARY SEWER MAINS, SEWER LATERALS, AND OTHER UTILITIES OR CONDUITS TO CONFIRM CLEARANCE TO THE WORK BEING PERFORMED. IF CLEARANCE IS LESS THAN 12 INCHES OR IF THERE IS AN EXISTING CONCRETE SADDLE AT THE CROSSING, NOTIFY ENGINEER IMMEDIATELY PRIOR TO CONTINUING WORK.
  - ALL EXISTING TREES SHALL BE PROTECTED AGAINST INJURY FROM CONSTRUCTION OPERATIONS UNLESS OTHERWISE NOTED.
  - LATERALS ARE SHOWN BASED ON CCTV AND/OR SURVEYED CLEANOUT LOCATIONS. IN LOCATIONS WHERE LATERALS COULD NOT BE CONFIRMED VIA CCTV, THE LATERALS ARE SHOWN WITH A DASHED LINE. IT IS UNKNOWN WHY SOME LOTS HAVE MULTIPLE SERVICES AND PROBABLE THAT SOME LATERALS TO SUCH SUCH LOTS ARE IN FACT ABANDONED/UNSUED. HOWEVER, ALL POSSIBLE LATERALS ARE SHOWN FOR COMPLETENESS SINCE NOT ENOUGH INFORMATION WAS AVAILABLE TO DETERMINE WHICH LATERALS ARE IN USE AND WHICH LATERALS ARE NOT. CONTRACTOR SHALL IDENTIFY WHICH LATERALS ARE ACTIVE PRIOR TO BEGINNING REHABILITATION OF SEWER LINE AND RECONNECT ALL ACTIVE LATERALS TO NEW MAIN FOLLOWING REHABILITATION.
  - CONTRACTOR SHALL WORK WITH PG&E TO LOCATE ALL PG&E FACILITIES AT PG&E'S OPTION. PG&E MAY REQUIRE A PG&E SPECIAL INSPECTOR OBSERVE ANY WORK WITHIN 3- FEET OF AN EXISTING PG&E FACILITY. CONTRACTOR SHALL SCHEDULE WORK ACCORDINGLY.
  - CONTRACTOR SHALL EXERCISE CAUTION IN THE VICINITY OF EXISTING STORM DRAIN JUNCTION BOX AND STORM DRAIN PIPE CROSSING. EXPOSE CROSSING PRIOR TO AND DURING REPLACEMENT/REHABILITATION OF EXISTING SEWER MAIN.

*Laurie M. Loaiza*  
LAURIE M. LOAIZA  
11/03/2022  
DATE



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PROJECT MANAGER:	DATE	DEPICTION OF MONUMENTS:	DATE	SUBMITTED:	DATE
		SURVEY PARTY CHIEF:		DESIGN: ERG	
		WATERSHED REVIEW:	DATE	DRAWN: JM/ERG	
				CHECK: LML	
				AS BUILT:	

APPROVED:	DATE	DESIGN:	ERG
CITY ENGINEER		DRAWN:	JM/ERG
		CHECK:	LML
		AS BUILT:	

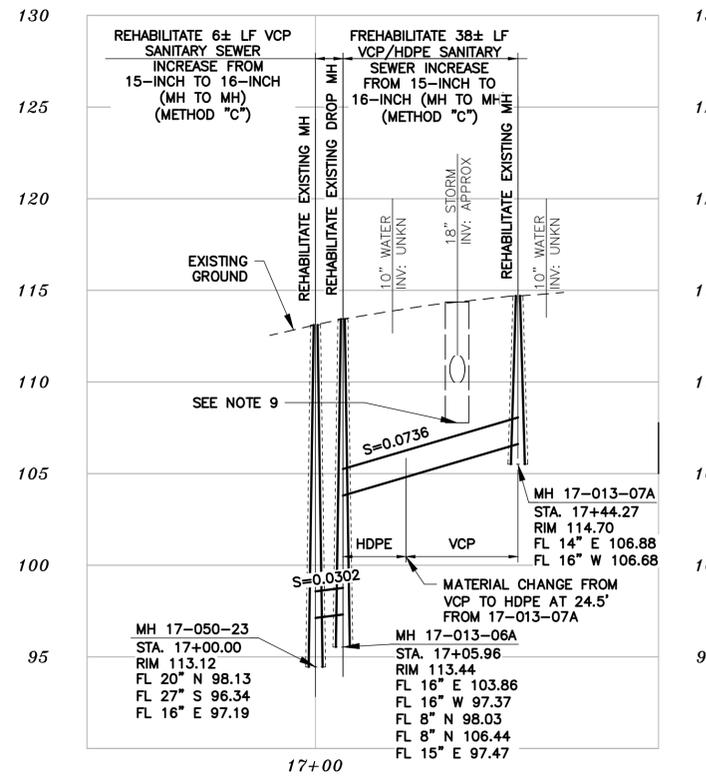
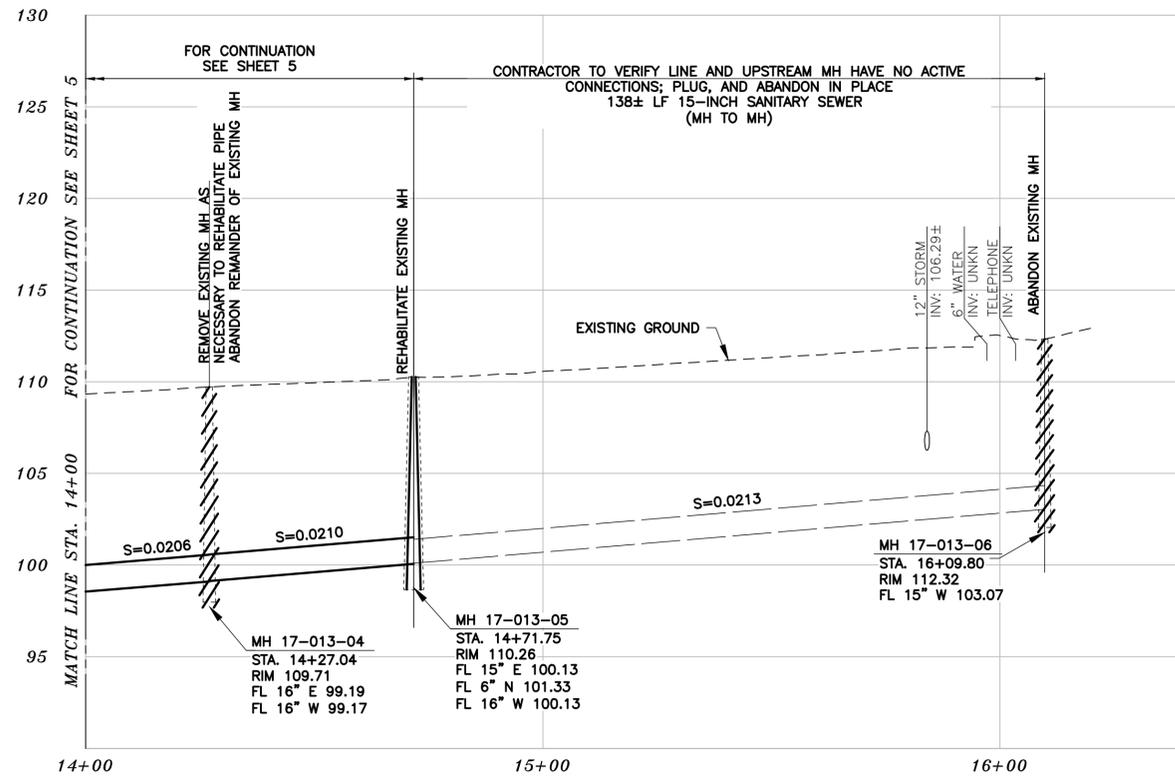
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VERT. 1" = 5'  
BOOK \_\_\_\_\_  
DATE 11/03/2022

CITY OF BERKELEY  
DEPARTMENT OF PUBLIC WORKS

SANITARY SEWER REHABILITATION  
**HEARST AVENUE**  
SHATTUCK TO OXFORD  
PLAN AND PROFILE

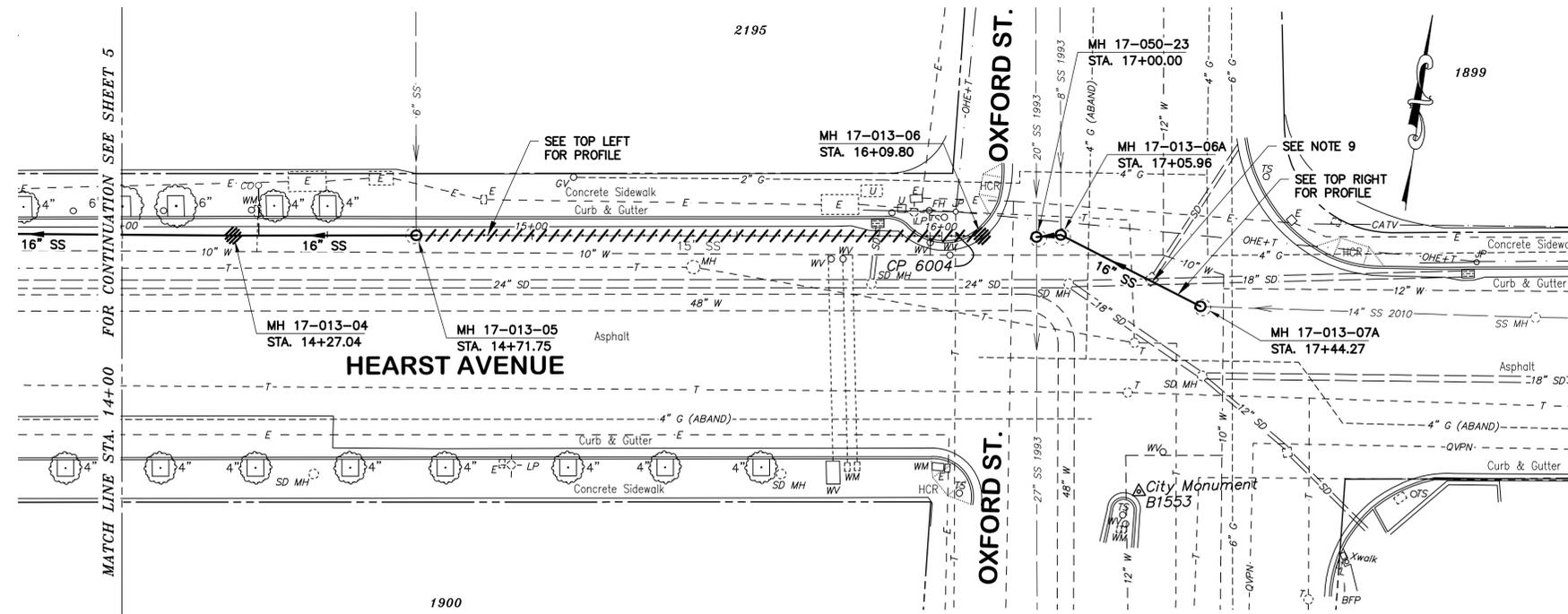
PLAN 8240  
FILE 502-704  
SHEET 5 OF 49

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THE TOPOGRAPHIC SURVEY FOR THIS PORTION OF THE PROJECT IS NOT ON THE CITY OF BERKELEY DATUM. AT CITY REQUEST, SURVEYOR USED AN ASSUMED LOCAL CONTROL AT EACH SITE. GROUND ELEVATIONS, MANHOLE RIM AND INVERT ELEVATIONS, ETC. SHALL NOT BE USED FOR PURPOSES OUTSIDE OF THIS PROJECT.

## PROFILE



- NOTES:
- FOR GENERAL NOTES SEE SHEET 4 OF THE PLANS.
  - LOCATE, RECONSTRUCT, EXTEND AND CONNECT ACTIVE LATERALS TO NEW SEWER MAIN. REMOVE EXISTING CLEANOUTS AND PROVIDE TWO-WAY CLEANOUTS WITH RISER, FRAME, CONCRETE COLLAR AND COVER.
  - LOWER LATERALS SHALL BE HDPE SDR-17.
  - RECONSTRUCT CITY MONUMENTS DISTURBED BY SEWER INSTALLATION. REFER TO STANDARD DETAIL PLAN NOS. 8090 & 8091 OF THE SPECIFICATIONS.
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  - ALL EXISTING TREES SHALL BE PROTECTED AGAINST INJURY FROM CONSTRUCTION OPERATIONS UNLESS OTHERWISE NOTED.
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### SANITARY SEWER LAYOUT - HEARST AVE

STATION	Δ OR BEARING	DISTANCE	RADIUS	DESCRIPTION
14+00.00	N82°26'16.43"E	27.04'	---	MATCH LINE
14+27.04	N81°54'27.11"E	44.70'	---	MH 17-013-04
14+71.75	N82°04'18.77"E	138.05'	---	MH 17-013-05
16+09.80	---	---	---	MH 17-013-06

### SANITARY SEWER LAYOUT - HEARST AVE

STATION	Δ OR BEARING	DISTANCE	RADIUS	DESCRIPTION
17+00.00	N77°06'04.60"E	5.96'	---	MH 17-050-23
17+05.96	N70°57'55.85"E	38.31'	---	MH 17-013-06A
17+44.27	---	---	---	MH 17-013-07A

## PLAN

*Laurie M. Loaiza*  
 LAURIE M. LOAIZA  
 11/03/2022  
 DATE



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 SURVEY PARTY CHIEF: \_\_\_\_\_ DATE \_\_\_\_\_  
 WATERSHED REVIEW: \_\_\_\_\_ DATE \_\_\_\_\_

DEPICTION OF MONUMENTS: \_\_\_\_\_ DATE \_\_\_\_\_  
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 SUPERVISING CIVIL ENGINEER: \_\_\_\_\_ DATE \_\_\_\_\_  
 APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
 CITY ENGINEER: \_\_\_\_\_ DATE \_\_\_\_\_

DESIGN: \_\_\_\_\_ DATE \_\_\_\_\_  
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 AS BUILT: \_\_\_\_\_ DATE \_\_\_\_\_

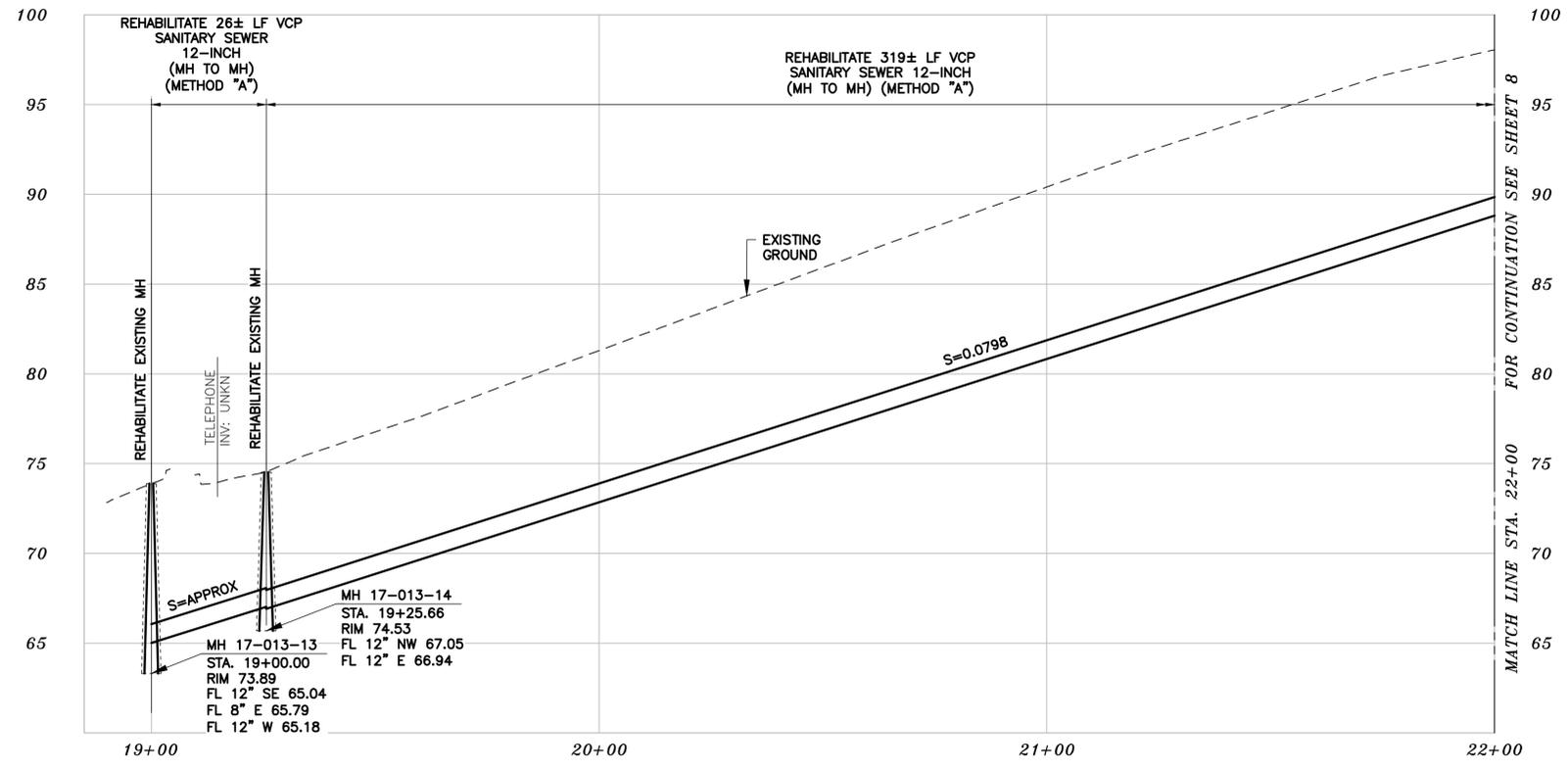
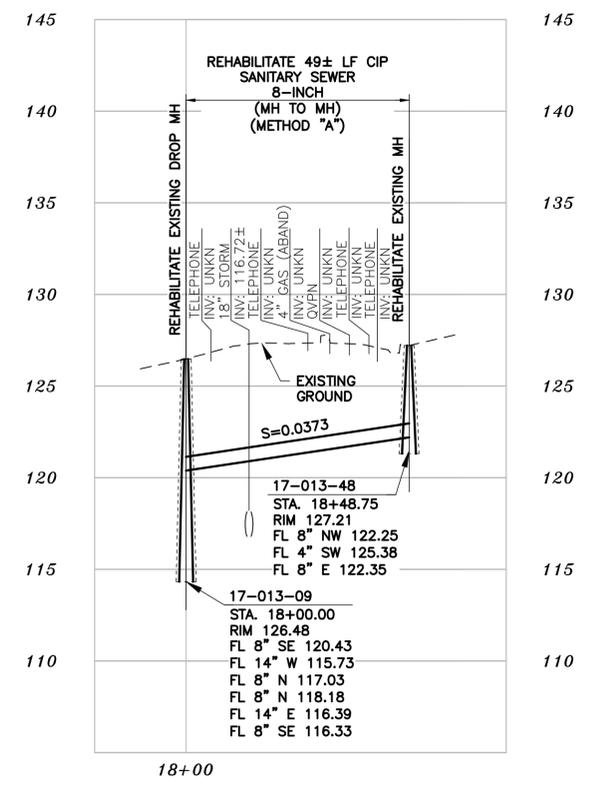
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CITY OF BERKELEY  
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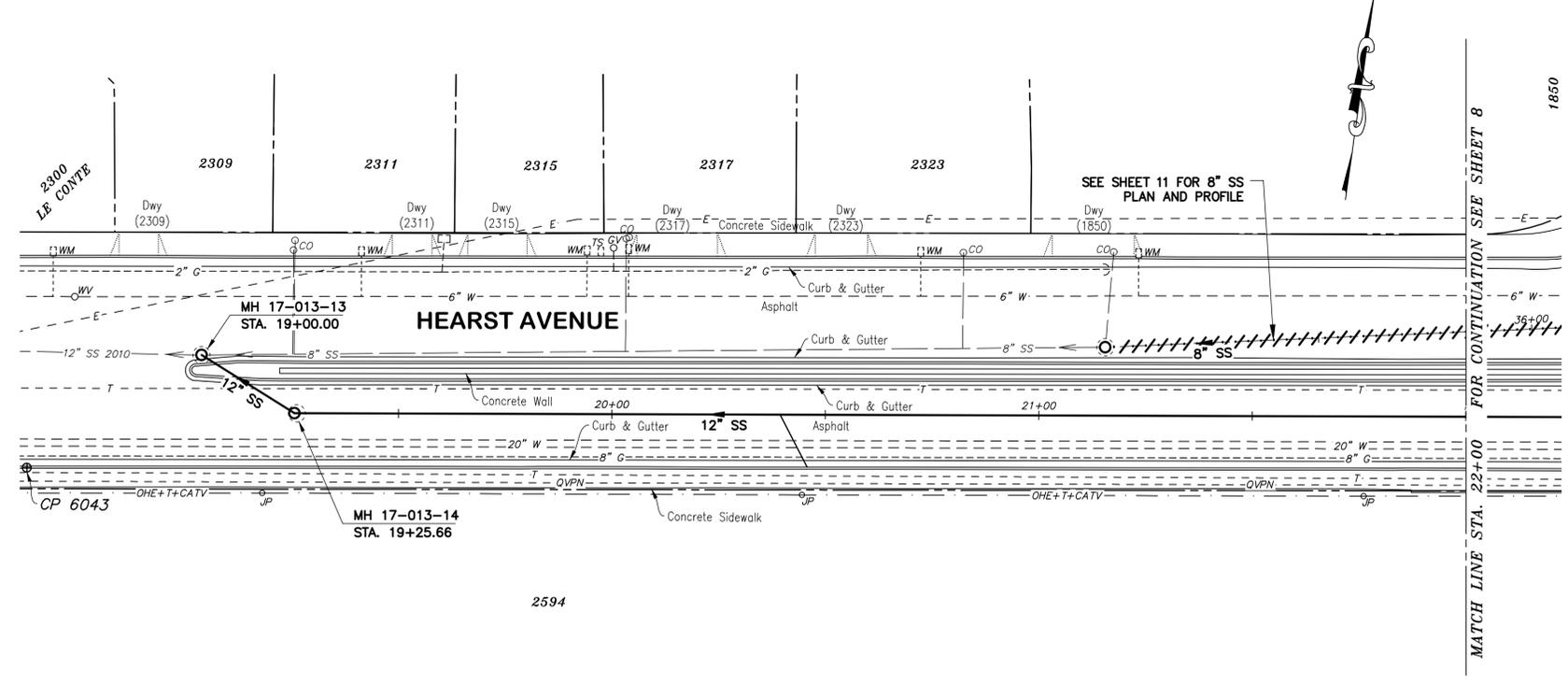
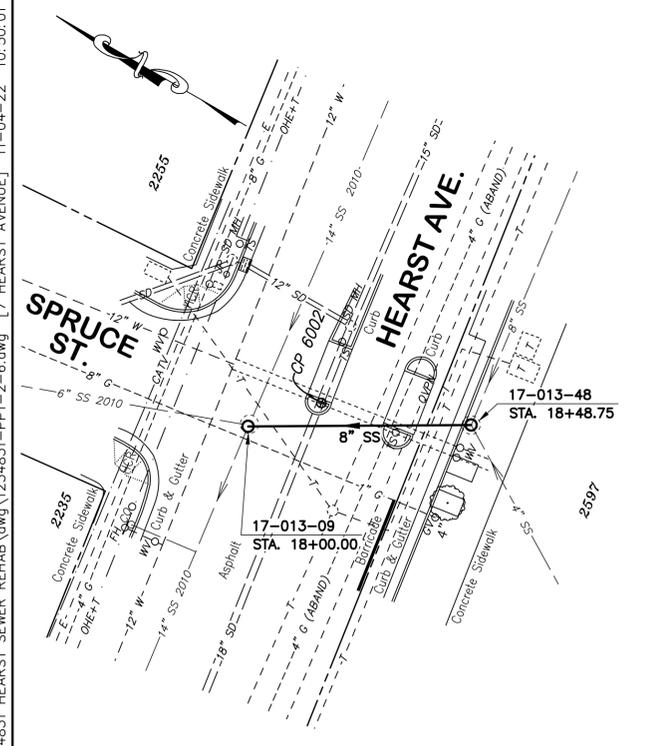
SANITARY SEWER REHABILITATION  
**HEARST AVENUE**  
 SHATTUCK TO OXFORD  
 PLAN AND PROFILE

PLAN 8240  
 FILE 502-704  
 SHEET 6 OF 49

THE TOPOGRAPHIC SURVEY FOR THIS PORTION OF THE PROJECT IS NOT ON THE CITY OF BERKELEY DATUM. AT CITY REQUEST, SURVEYOR USED AN ASSUMED LOCAL CONTROL AT EACH SITE. GROUND ELEVATIONS, MANHOLE RIM AND INVERT ELEVATIONS, ETC. SHALL NOT BE USED FOR PURPOSES OUTSIDE OF THIS PROJECT.



# PROFILE



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**SANITARY SEWER LAYOUT - HEARST AVE**

STATION	Δ OR BEARING	DISTANCE	RADIUS	DESCRIPTION
18+00.00	S30°19'51.25"E	48.75'	---	MH 17-013-09
18+48.75	---	---	---	MH 17-013-48

**SANITARY SEWER LAYOUT - HEARST AVE**

STATION	Δ OR BEARING	DISTANCE	RADIUS	DESCRIPTION
19+00.00	S65°58'11.76"E	25.66'	---	MH 17-013-13
19+25.66	N82°10'04.03"E	274.34'	---	MH 17-013-14
22+00.00	---	---	---	MATCH LINE

# PLAN

*Laurie M. Loaliza*  
 LAURIE M. LOALIZA  
 11/03/2022  
 DATE



**COASTLAND | BCCM**  
 11641 Blocker Dr, Ste 170, Auburn, CA 95603  
 530.888.9929 | coastlandcivil.com

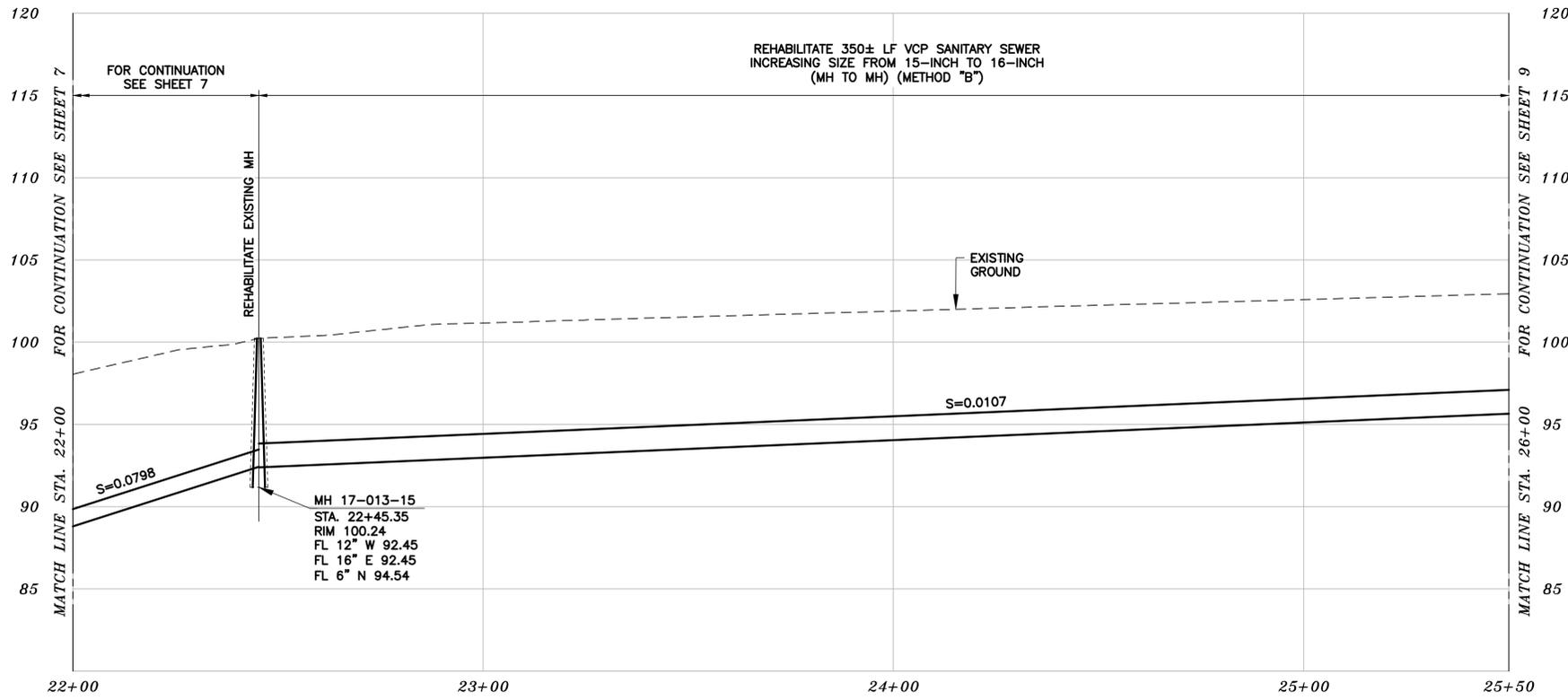
PROJECT MANAGER: _____ DATE _____	DEPICTION OF MONUMENTS: _____ DATE _____	SUBMITTED: _____ DATE _____	DESIGN: <u>ERG</u>	HORIZ. 1" = 20'
SURVEY PARTY CHIEF: _____ DATE _____	WATERSHED REVIEW: _____ DATE _____	SUPERVISING CIVIL ENGINEER: _____ DATE _____	DRAWN: <u>JM/ERG</u>	VERT. 1" = 5'
APPROVED: _____ DATE _____	CITY ENGINEER: _____ DATE _____	APPROVED: _____ DATE _____	CHECK: <u>LML</u>	BOOK: _____
			AS BUILT: _____	DATE: 11/03/2022

**CITY OF BERKELEY**  
 DEPARTMENT OF PUBLIC WORKS

**SANITARY SEWER REHABILITATION**  
**HEARST AVENUE**  
 @ SPRUCE ST, AND LE CONTE TO EUCLID  
 PLAN AND PROFILE

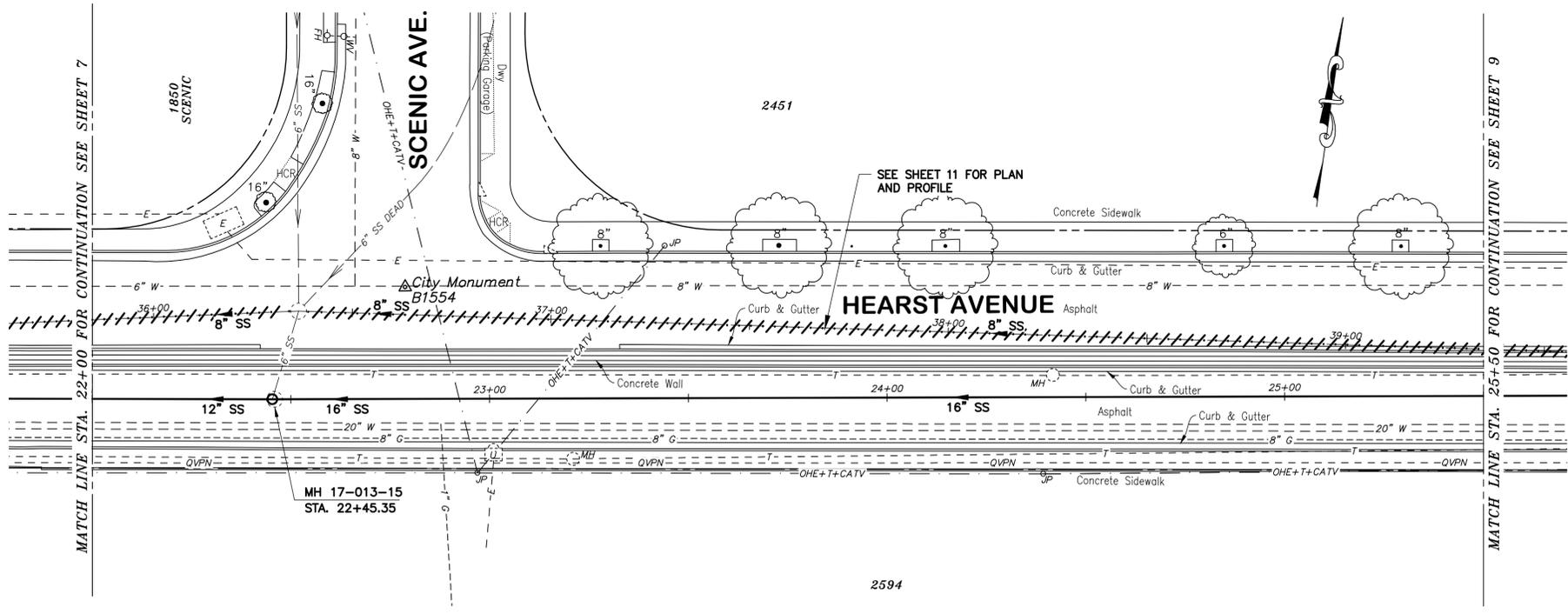
PLAN 8240  
 FILE 502-704  
 SHEET 7 OF 49

T:\Civil\_3D Projects\1234831 HEARST SEWER REHAB.dwg\1234831-PP1-2-6.dwg [7 HEARST AVENUE] 11-04-22 10:50:01 AM marcelle



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# PROFILE



- NOTES:**
- FOR GENERAL NOTES SEE SHEET 4 OF THE PLANS.
  - LOCATE, RECONSTRUCT, EXTEND AND CONNECT ACTIVE LATERALS TO NEW SEWER MAIN. REMOVE EXISTING CLEANOUTS AND PROVIDE TWO-WAY CLEANOUTS WITH RISER, FRAME, CONCRETE COLLAR AND COVER.
  - LOWER LATERALS SHALL BE HDPE SDR-17.
  - RECONSTRUCT CITY MONUMENTS DISTURBED BY SEWER INSTALLATION. REFER TO STANDARD DETAIL PLAN NOS. 8090 & 8091 OF THE SPECIFICATIONS.
  - IN ACCORDANCE WITH SPECIAL CONDITION NO. 13 IN THE SPECIAL PROVISIONS, PRIOR TO EXCAVATION, CONTRACTOR SHALL POTHOLE AND VERIFY THE LOCATION AND DEPTH OF EXISTING STORM DRAINS, SANITARY SEWER MAINS, SEWER LATERALS, AND OTHER UTILITIES OR CONDUITS TO CONFIRM CLEARANCE TO THE WORK BEING PERFORMED. IF CLEARANCE IS LESS THAN 12 INCHES OR IF THERE IS AN EXISTING CONCRETE SADDLE AT THE CROSSING, NOTIFY ENGINEER IMMEDIATELY PRIOR TO CONTINUING WORK.
  - ALL EXISTING TREES SHALL BE PROTECTED AGAINST INJURY FROM CONSTRUCTION OPERATIONS UNLESS OTHERWISE NOTED.
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## SANITARY SEWER LAYOUT - HEARST AVE

STATION	Δ OR BEARING	DISTANCE	RADIUS	DESCRIPTION
22+00.00	N82°10'04.03"E	45.35'	---	MATCH LINE
22+45.35	N81°50'02.63"E	304.65'	---	MH 17-013-15
25+50.00	---	---	---	MATCH LINE

# PLAN

*Laurie M. Loaiza*  
 LAURIE M. LOAIZA  
 11/03/2022  
 DATE



**COASTLAND | DCCM**  
 11641 Blocker Dr, Ste 170, Auburn, CA 95603  
 530.888.9929 | coastlandcivil.com

PROJECT MANAGER: _____ DATE _____	DEPICTION OF MONUMENTS: _____ DATE _____	SUBMITTED: _____ DATE _____	DESIGN: <u>ERG</u>	HORIZ. 1" = 20'
SURVEY PARTY CHIEF: _____ DATE _____	WATERSHED REVIEW: _____ DATE _____	SUPERVISING CIVIL ENGINEER: _____ DATE _____	DRAWN: <u>JM/ERG</u>	VERT. 1" = 5'
FOR REDUCED PLANS - ORIGINAL SCALE IS IN INCHES		APPROVED: _____ DATE _____	CHECK: <u>LML</u>	BOOK: _____
		CITY ENGINEER: _____ DATE _____	AS BUILT: _____	DATE 11/03/2022

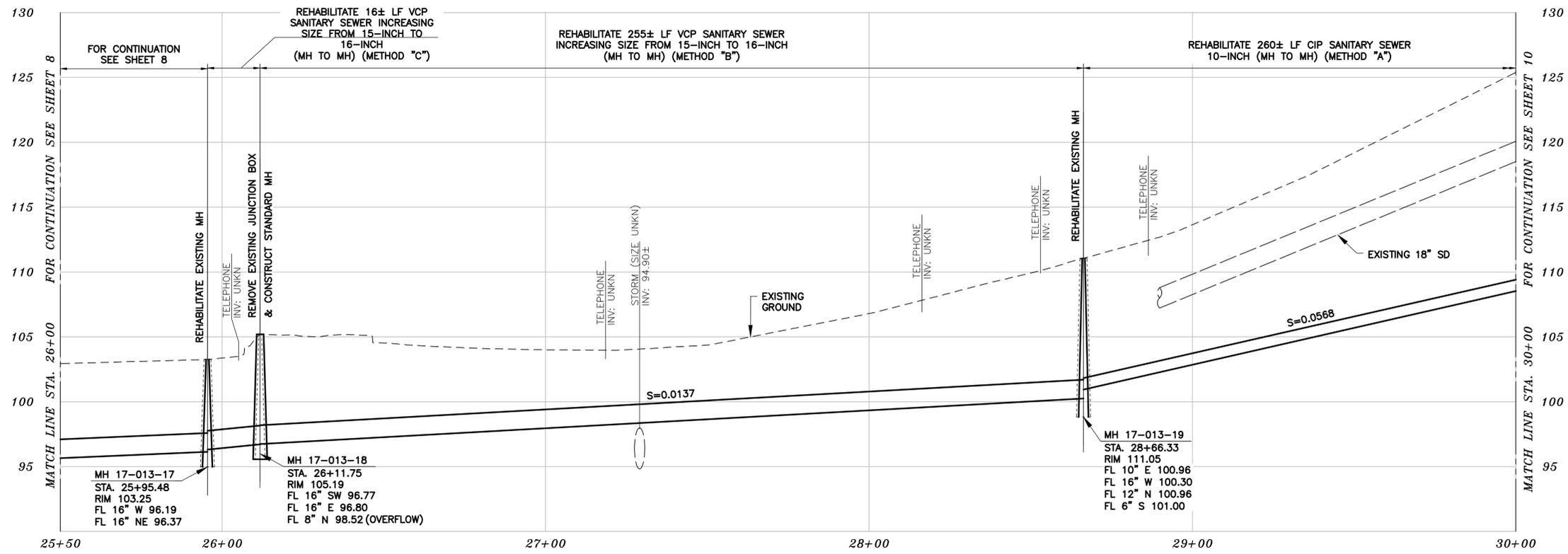
**CITY OF BERKELEY**  
 DEPARTMENT OF PUBLIC WORKS

**SANITARY SEWER REHABILITATION**  
**HEARST AVENUE**  
 LE CONTE TO EUCLID  
 PLAN AND PROFILE

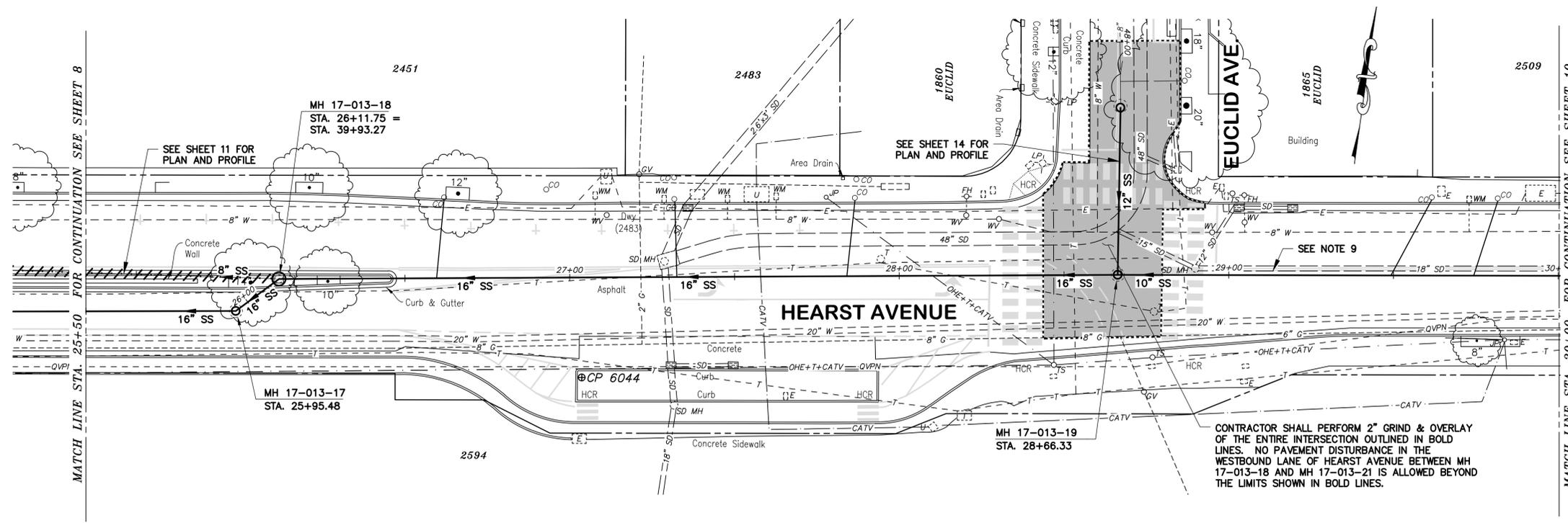
PLAN 8240  
 FILE 502-704  
 SHEET 8 OF 49

T:\Civil 3D Projects\1234831 HEARST SEWER REHAB.dwg [1234831-PP1-2-6.dwg] [8 HEARST AVENUE] 11-04-22 10:50:12 AM marcelle

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### PROFILE



### PLAN

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  - LOWER LATERALS SHALL BE HOPE SDR-17.
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  - IN ACCORDANCE WITH SPECIAL CONDITION NO. 13 IN THE SPECIAL PROVISIONS, PRIOR TO EXCAVATION, CONTRACTOR SHALL POTHOLE AND VERIFY THE LOCATION AND DEPTH OF EXISTING STORM DRAINS, SANITARY SEWER MAINS, SEWER LATERALS, AND OTHER UTILITIES OR CONDUITS TO CONFIRM CLEARANCE TO THE WORK BEING PERFORMED. IF CLEARANCE IS LESS THAN 12 INCHES OR IF THERE IS AN EXISTING CONCRETE SADDLE AT THE CROSSING, NOTIFY ENGINEER IMMEDIATELY PRIOR TO CONTINUING WORK.
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#### SANITARY SEWER LAYOUT - HEARST AVE

STATION	Δ OR BEARING	DISTANCE	RADIUS	DESCRIPTION
25+50.00	N81°50'02.63"E	45.48'	---	MATCH LINE
25+95.48	N45°25'02.42"E	16.27'	---	MH 17-013-17
26+11.75	N81°43'08.51"E	254.58'	---	MH 17-013-18
28+66.33	N82°07'32.04"E	133.67'	---	MH 17-013-19
30+00.00	---	---	---	MATCH LINE

**COASTLAND | DCCM**  
11641 Blocker Dr, Ste 170, Auburn, CA 95603  
530.888.9929 | coastlandcivil.com

PROJECT MANAGER: _____ DATE _____	DEPICTION OF MONUMENTS: _____ DATE _____	SUBMITTED: _____ DATE _____	DESIGN: _____ ERG	HORIZ. 1" = 20'
SURVEY PARTY CHIEF: _____ DATE _____	WATERSHED REVIEW: _____ DATE _____	SUPERVISING CIVIL ENGINEER: _____ DATE _____	DRAWN: _____ JM/ERG	VERT. 1" = 5'
		APPROVED: _____ DATE _____	CHECK: _____ LML	BOOK: _____
		CITY ENGINEER: _____ DATE _____	AS BUILT: _____	DATE 11/03/2022

CITY OF BERKELEY  
DEPARTMENT OF PUBLIC WORKS

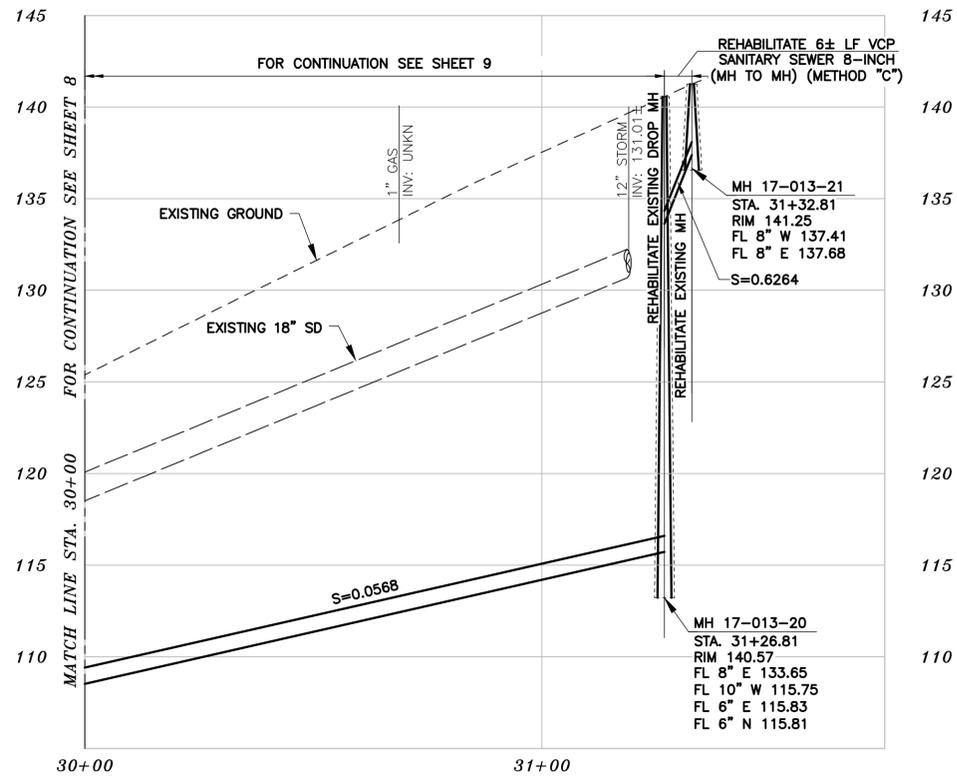
SANITARY SEWER REHABILITATION  
**HEARST AVENUE**  
LE CONTE TO EUCLID  
PLAN AND PROFILE

PLAN 8240  
FILE 502-704  
SHEET 9 OF 49

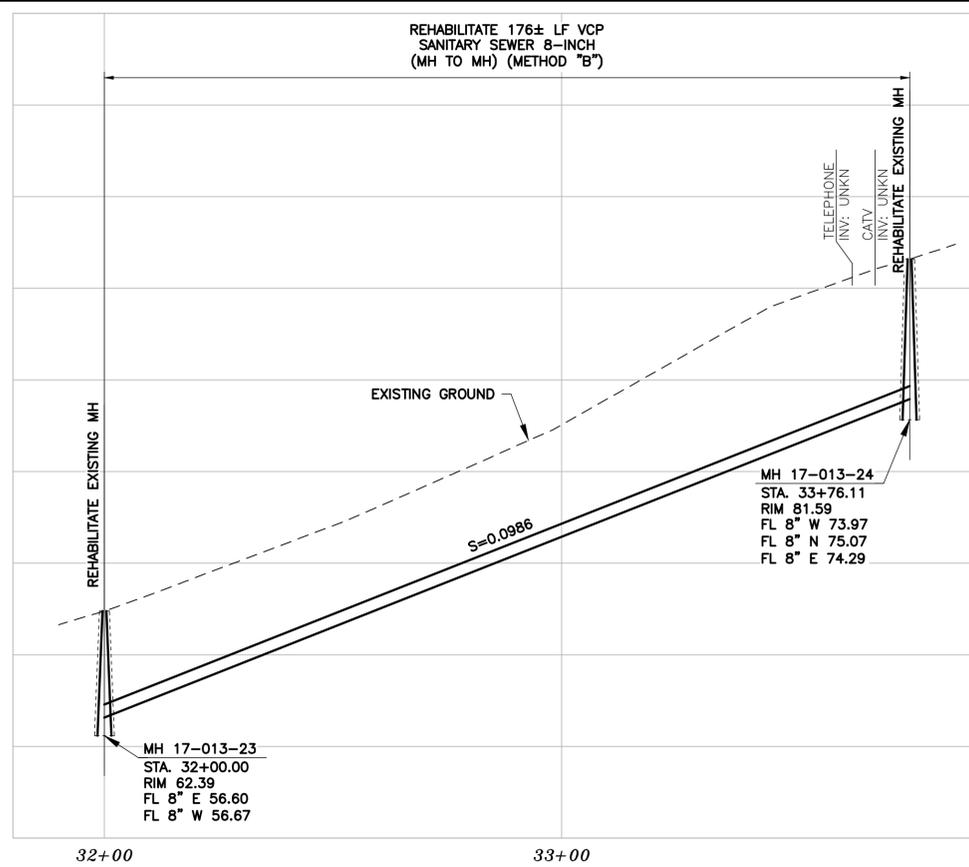
*Laurie M. Loaiza*  
LAURIE M. LOAIZA  
11/03/2022  
DATE

REGISTERED PROFESSIONAL ENGINEER  
LAURIE M. LOAIZA  
No. C65951  
CIVIL  
STATE OF CALIFORNIA

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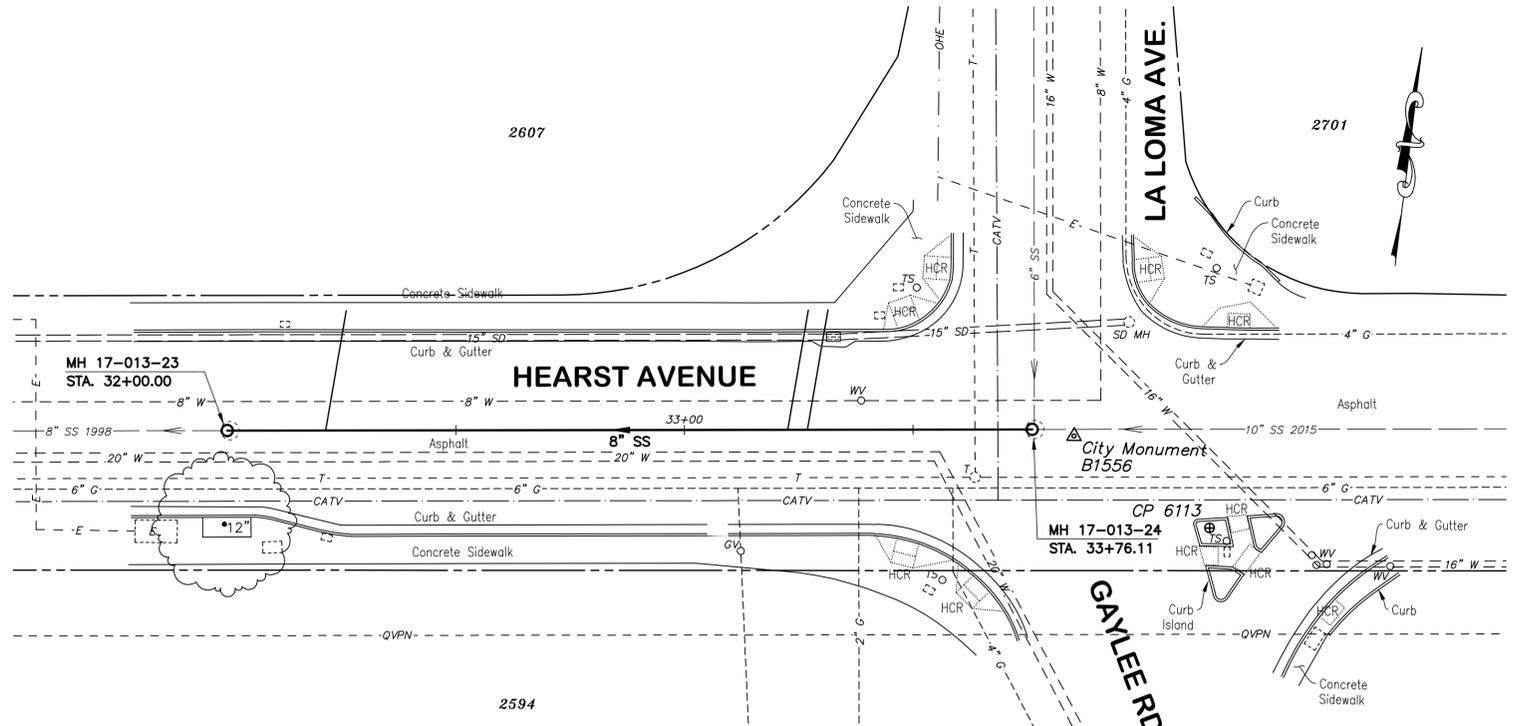
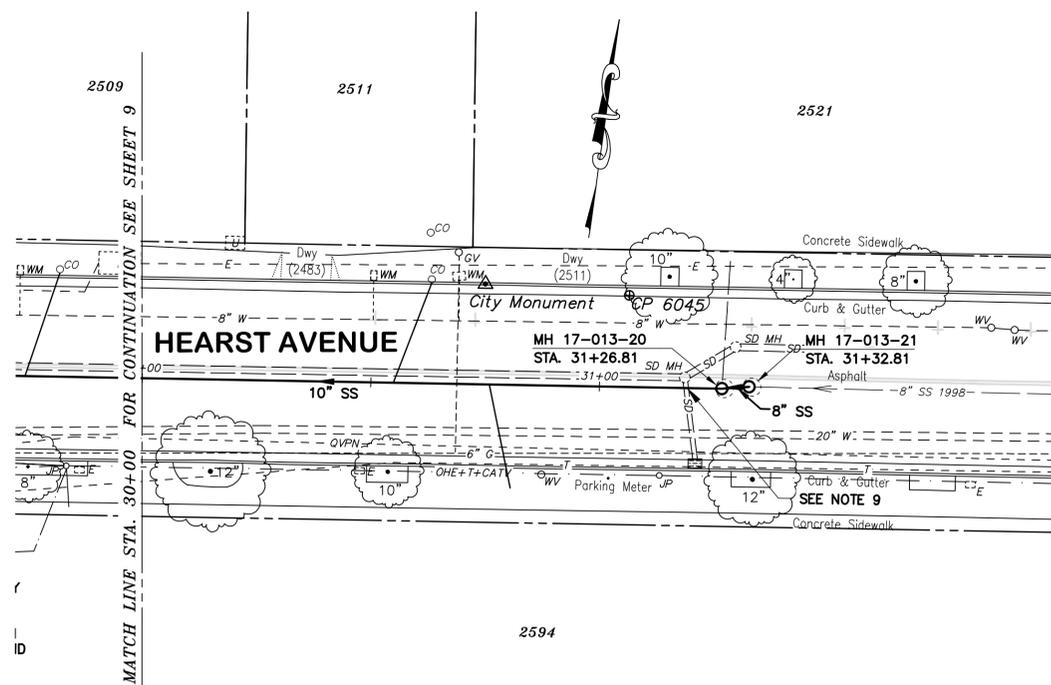


# PROFILE



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## SANITARY SEWER LAYOUT - HEARST AVE

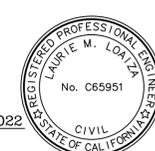
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30+00.00	N82°07'32.04"E	126.81'	---	MATCH LINE
31+26.81	N77°05'54.27"E	6.00'	---	MH 17-013-20
31+32.81	---	---	---	MH 17-013-21

## SANITARY SEWER LAYOUT - HEARST AVE

STATION	Δ OR BEARING	DISTANCE	RADIUS	DESCRIPTION
32+00.00	N81°55'14.51"E	176.11'	---	MH 17-013-23
33+76.11	---	---	---	MH 17-013-24

# PLAN

*Laurie M. Loaiza*  
 LAURIE M. LOAIZA  
 11/03/2022  
 DATE



**COASTLAND | DCCM**  
 11641 Blocker Dr, Ste 170, Auburn, CA 95603  
 530.888.9929 | coastlandcivil.com

PROJECT MANAGER: \_\_\_\_\_ DATE \_\_\_\_\_  
 DEPICTION OF MONUMENTS: \_\_\_\_\_ DATE \_\_\_\_\_  
 SURVEY PARTY CHIEF: \_\_\_\_\_ DATE \_\_\_\_\_  
 WATERSHED REVIEW: \_\_\_\_\_ DATE \_\_\_\_\_

SUBMITTED: \_\_\_\_\_ DATE \_\_\_\_\_  
 R.C.E. \_\_\_\_\_  
 EXP. \_\_\_\_\_  
 SUPERVISING CIVIL ENGINEER: \_\_\_\_\_  
 APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
 R.C.E. \_\_\_\_\_  
 EXP. \_\_\_\_\_  
 CITY ENGINEER: \_\_\_\_\_

DESIGN: \_\_\_\_\_ ERG  
 DRAWN: \_\_\_\_\_ JM/ERG  
 CHECK: \_\_\_\_\_ LML  
 AS BUILT: \_\_\_\_\_

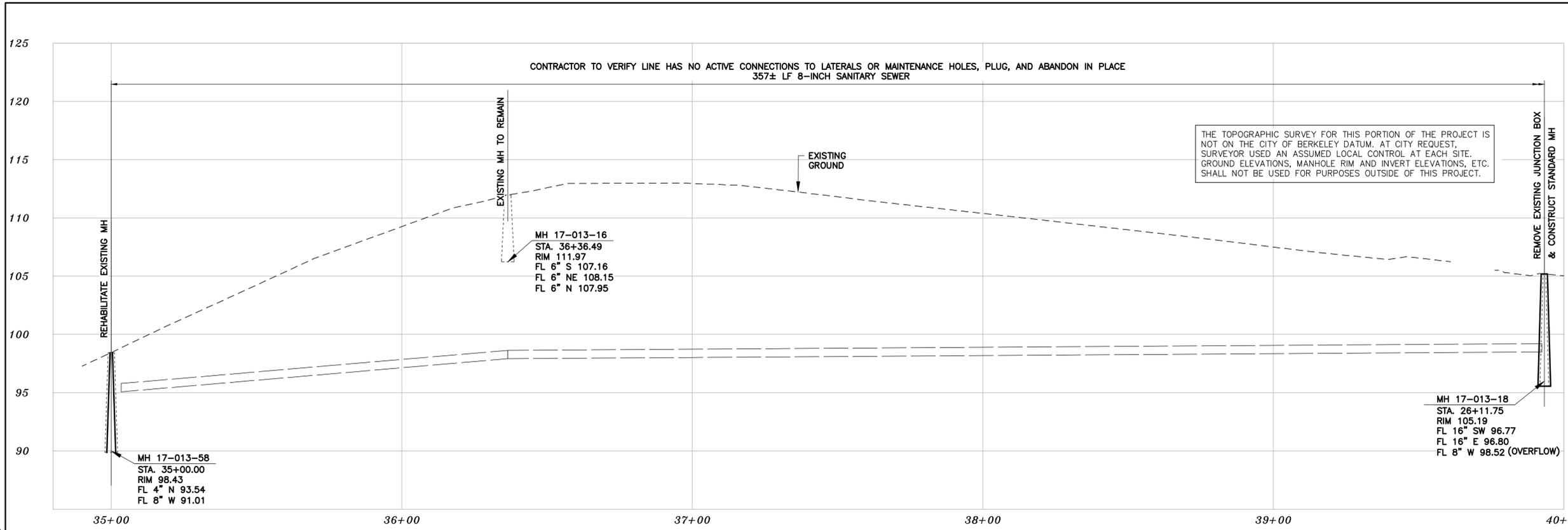
HORIZ. 1" = 20'  
 VERT. 1" = 5'  
 BOOK \_\_\_\_\_  
 DATE 11/03/2022

**CITY OF BERKELEY**  
 DEPARTMENT OF PUBLIC WORKS

**SANITARY SEWER REHABILITATION**  
**HEARST AVENUE**  
 LE CONTE TO EUCLID, @ LA LOMA AVE  
 PLAN AND PROFILE

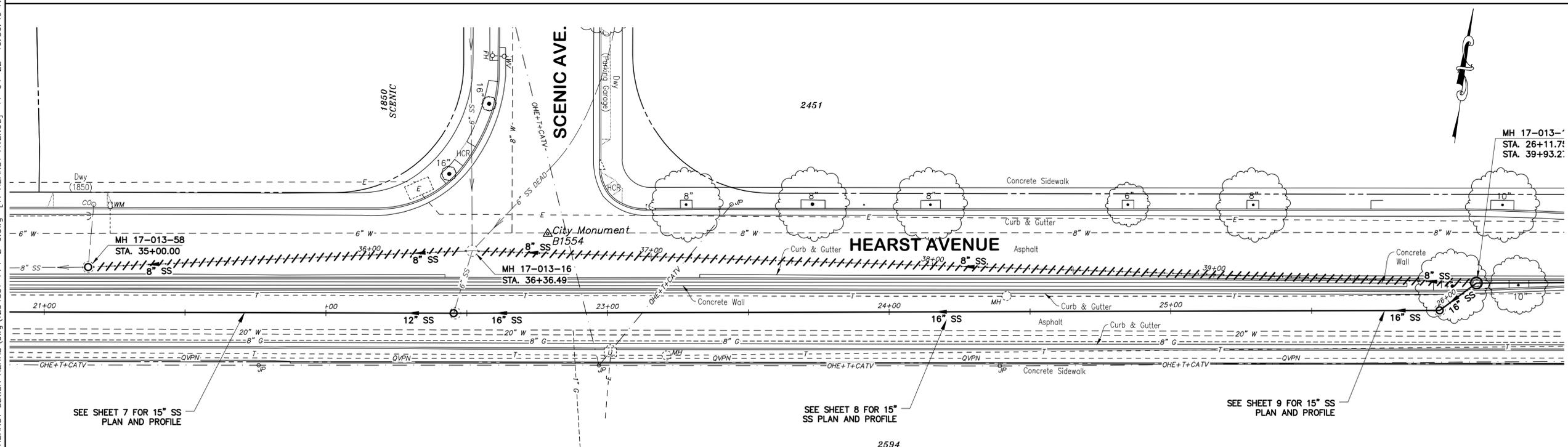
PLAN 8240  
 FILE 502-704  
 SHEET 10 OF 49

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### PROFILE

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### PLAN

*Laurie M. Loaiza*  
LAURIE M. LOAIZA  
No. C65951  
REGISTERED PROFESSIONAL ENGINEER  
CIVIL  
STATE OF CALIFORNIA

11/03/2022  
DATE

**COASTLAND | BCCM**  
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530.888.9929 | coastlandcivil.com

PROJECT MANAGER: _____ DATE _____	DEPICTION OF MONUMENTS: _____ DATE _____	SUBMITTED: _____ DATE _____	DESIGN: <u>ERG</u>	HORIZ. 1" = 20'
SURVEY PARTY CHIEF: _____ DATE _____	WATERSHED REVIEW: _____ DATE _____	SUPERVISING CIVIL ENGINEER: _____ DATE _____	DRAWN: <u>JM/ERG</u>	VERT. 1" = 5'
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		CITY ENGINEER: _____ DATE _____	AS BUILT: _____	DATE 11/03/2022

**CITY OF BERKELEY**  
DEPARTMENT OF PUBLIC WORKS

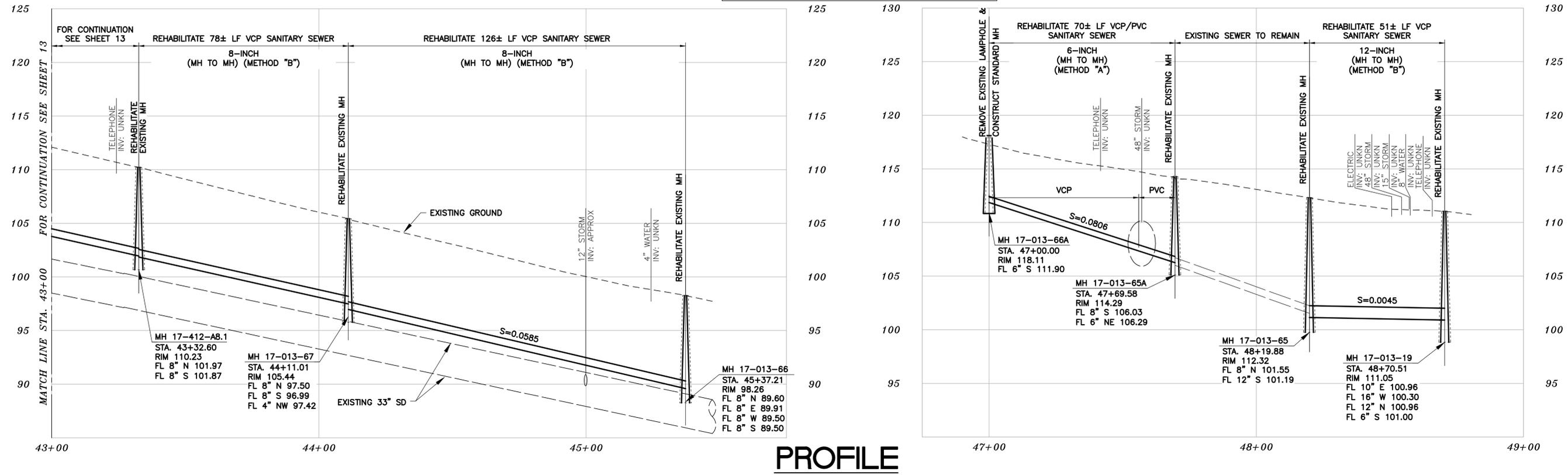
**SANITARY SEWER REHABILITATION**  
**HEARST AVENUE**  
LE CONTE TO EUCLID  
PLAN AND PROFILE

PLAN 8240  
FILE 502-704  
SHEET 11 OF 49

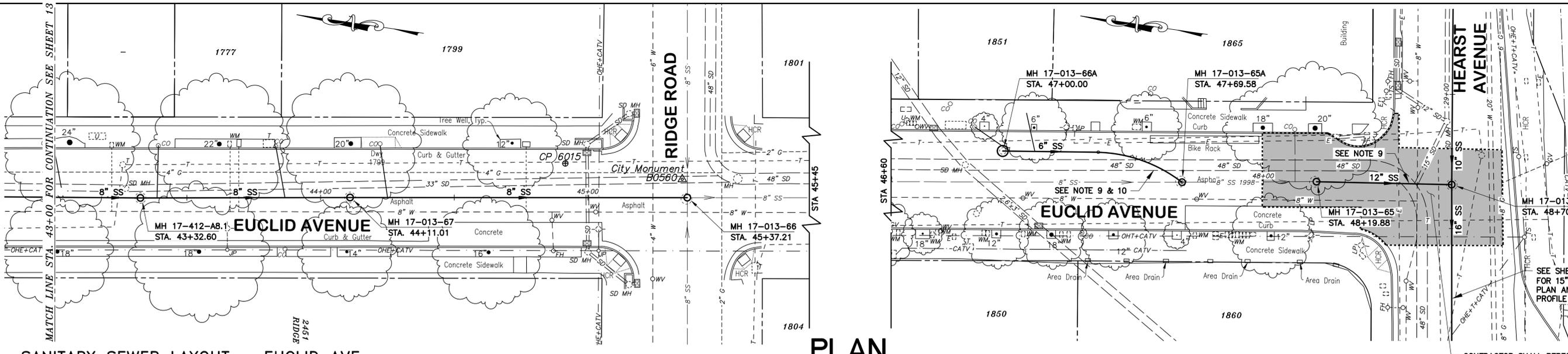




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### PROFILE



### PLAN

#### SANITARY SEWER LAYOUT - EUCLID AVE

STATION	Δ OR BEARING	DISTANCE	RADIUS	DESCRIPTION
43+00.00	S07°52'12.63"E	32.60'	---	MATCH LINE
43+32.60	S08°24'29.86"E	78.41'	---	UNKN MH 2
44+11.01	S08°16'53.92"E	126.20'	---	MH 17-013-67
45+47.21	---	---	---	MH 17-013-66

#### SANITARY SEWER LAYOUT - EUCLID AVE

STATION	Δ OR BEARING	DISTANCE	RADIUS	DESCRIPTION
47+00.00	S07°34'45.45"E	45.75'	---	MH 17-013-66A
47+38.26	Δ RT 11°21'50.36"	33.83'	53.82'	BEGIN CURVE
47+69.58	---	---	---	MH 17-013-65A
48+19.88	S07°03'51.76"	50.63'	---	MH 17-013-65
48+70.51	---	---	---	MH 17-013-19

- NOTES:**
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- CONDUITS TO CONFIRM CLEARANCE TO THE WORK BEING PERFORMED. IF CLEARANCE IS LESS THAN 12 INCHES OR IF THERE IS AN EXISTING CONCRETE SADDLE AT THE CROSSING, NOTIFY ENGINEER IMMEDIATELY PRIOR TO CONTINUING WORK.
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- SINCE NOT ENOUGH INFORMATION WAS AVAILABLE TO DETERMINE WHICH LATERALS ARE IN USE AND WHICH LATERALS ARE NOT, CONTRACTOR SHALL IDENTIFY WHICH LATERALS ARE ACTIVE PRIOR TO BEGINNING REHABILITATION OF SEWER LINE AND RECONNECT ALL ACTIVE LATERALS TO NEW MAIN FOLLOWING REHABILITATION.
- CONTRACTOR SHALL WORK WITH PG&E TO LOCATE ALL PG&E FACILITIES AT PG&E'S OPTION, PG&E MAY REQUIRE A PG&E SPECIAL INSPECTOR OBSERVE ANY WORK WITHIN 3- FEET OF AN EXISTING PG&E FACILITY. CONTRACTOR SHALL SCHEDULE WORK ACCORDINGLY.
- CONTRACTOR SHALL EXERCISE CAUTION IN THE VICINITY OF EXISTING STORM DRAIN STRUCTURES, PIPES, AND CROSSINGS. EXPOSE CROSSING PRIOR TO AND DURING REPLACEMENT/REHABILITATION OF EXISTING SEWER MAIN.

- CONTRACTOR SHALL INVESTIGATE STORM DRAIN CROSSING AND DETERMINE IF SEWER GOES OVER OR UNDER SD PIPE. CONTRACTOR SHALL NOTIFY THE CITY IMMEDIATELY IF SEWER CROSSES THROUGH STORM DRAIN.

CONTRACTOR SHALL PERFORM 2" GRIND AND OVERLAY OF THE ENTIRE INTERSECTION OUTLINED IN BOLD LINES. NO PAVEMENT DISTURBANCE IN THE WESTBOUND LANE OF HEARST AVENUE BETWEEN MH 17-013-18 AND MH 17-013-21 IS ALLOWED BEYOND THE LIMITS SHOWN IN BOLD LINES.

*Laurie M. Loaiza*  
 LAURIE M. LOAIZA  
 11/03/2022  
 DATE



**COASTLAND | BCCM**  
 11641 Blocker Dr, Ste 170, Auburn, CA 95603  
 530.888.9929 | coastlandcivil.com

PROJECT MANAGER:	DATE	DEPICTION OF MONUMENTS:	DATE	SUBMITTED:	DATE	DESIGN:	ERG	HORIZ. 1" = 20'
		SURVEY PARTY CHIEF:		DRAWN:	R.C.E.	DRAWN:	JM/ERG	VERT. 1" = 5'
		WATERSHED REVIEW:	DATE	APPROVED:	DATE	CHECK:	LML	BOOK
				CITY ENGINEER:	DATE	AS BUILT:		DATE 11/03/2022

DATE	EXP.	DATE	EXP.
DATE	EXP.	DATE	EXP.
DATE	EXP.	DATE	EXP.

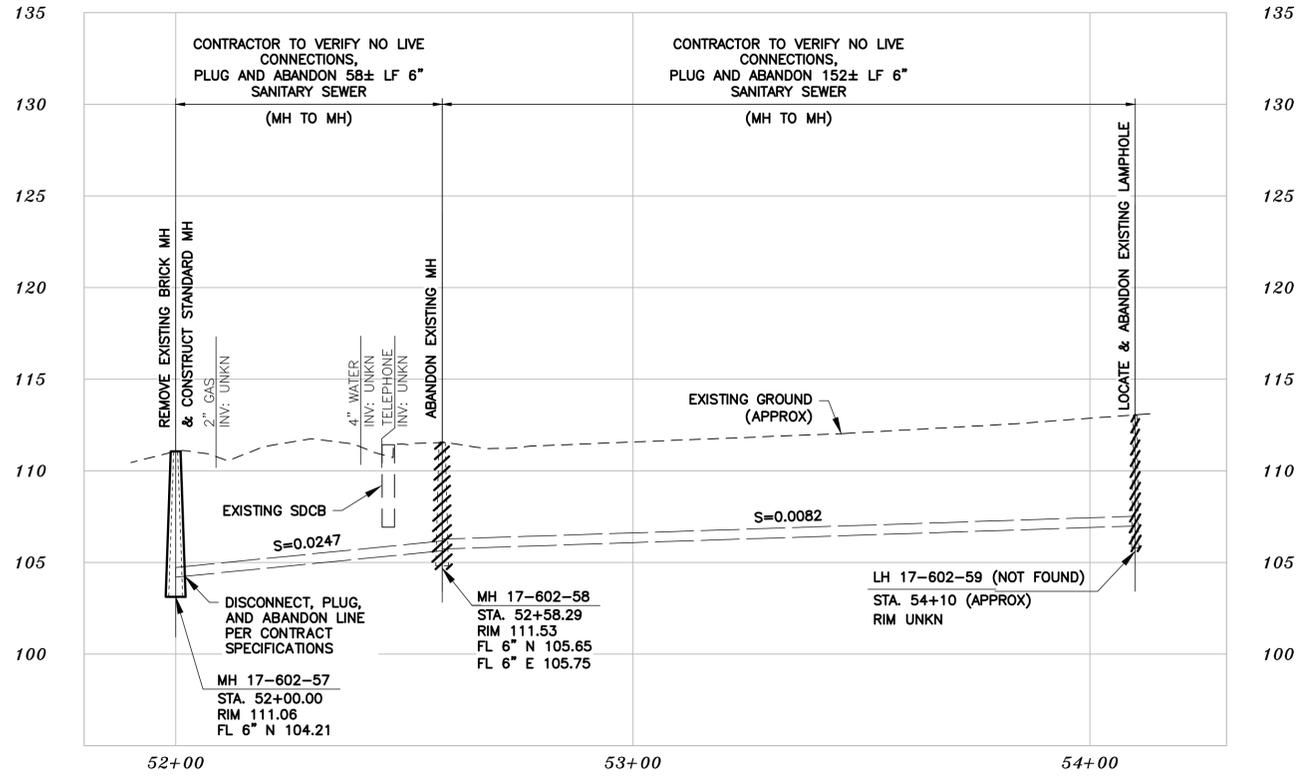
**CITY OF BERKELEY**  
 DEPARTMENT OF PUBLIC WORKS

**SANITARY SEWER REHABILITATION**  
**EUCLID AVENUE**  
 PLAN AND PROFILE

PLAN 8240  
 FILE 502-704  
 SHEET 14 OF 49

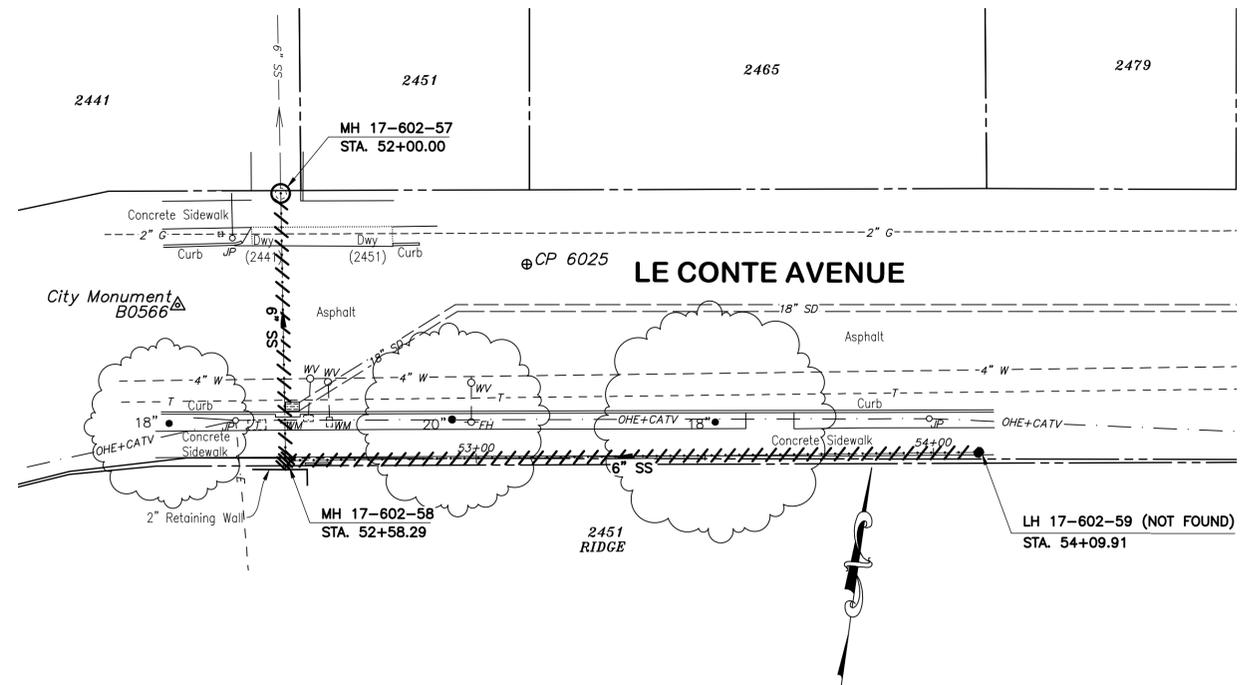
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T:\Civil 3D Projects\1234831 HEARST SEWER REHAB.dwg [15 LE CONTE AVENUE] 11-04-22 10:51:31 AM marcelle



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### PROFILE



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### PLAN

*Laurie M. Loaiza*  
 LAURIE M. LOAIZA  
 No. C65951  
 11/03/2022  
 DATE

**COASTLAND | BCCM**  
 11641 Blocker Dr, Ste 170, Auburn, CA 95603  
 530.888.9929 | coastlandcivil.com

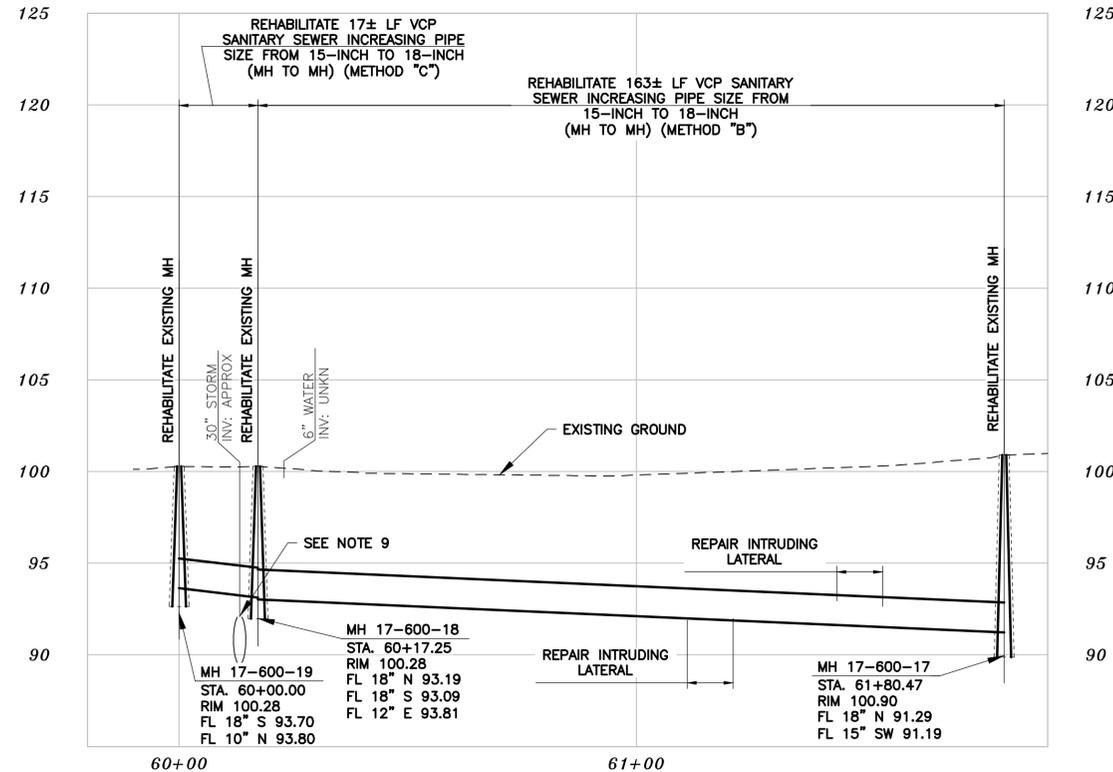
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SURVEY PARTY CHIEF: _____	WATERSHED REVIEW: _____ DATE _____	SUPERVISING CIVIL ENGINEER: _____	DRAWN: <u>JM/ERG</u>	VERT. 1" = 5'
FOR REDUCED PLANS - ORIGINAL SCALE IS IN INCHES	APPROVED: _____ DATE _____	CITY ENGINEER: _____	CHECK: <u>LML</u>	BOOK: _____
			AS BUILT: _____	DATE 11/03/2022

**CITY OF BERKELEY**  
 DEPARTMENT OF PUBLIC WORKS

**SANITARY SEWER REHABILITATION**  
**LE CONTE AVENUE**

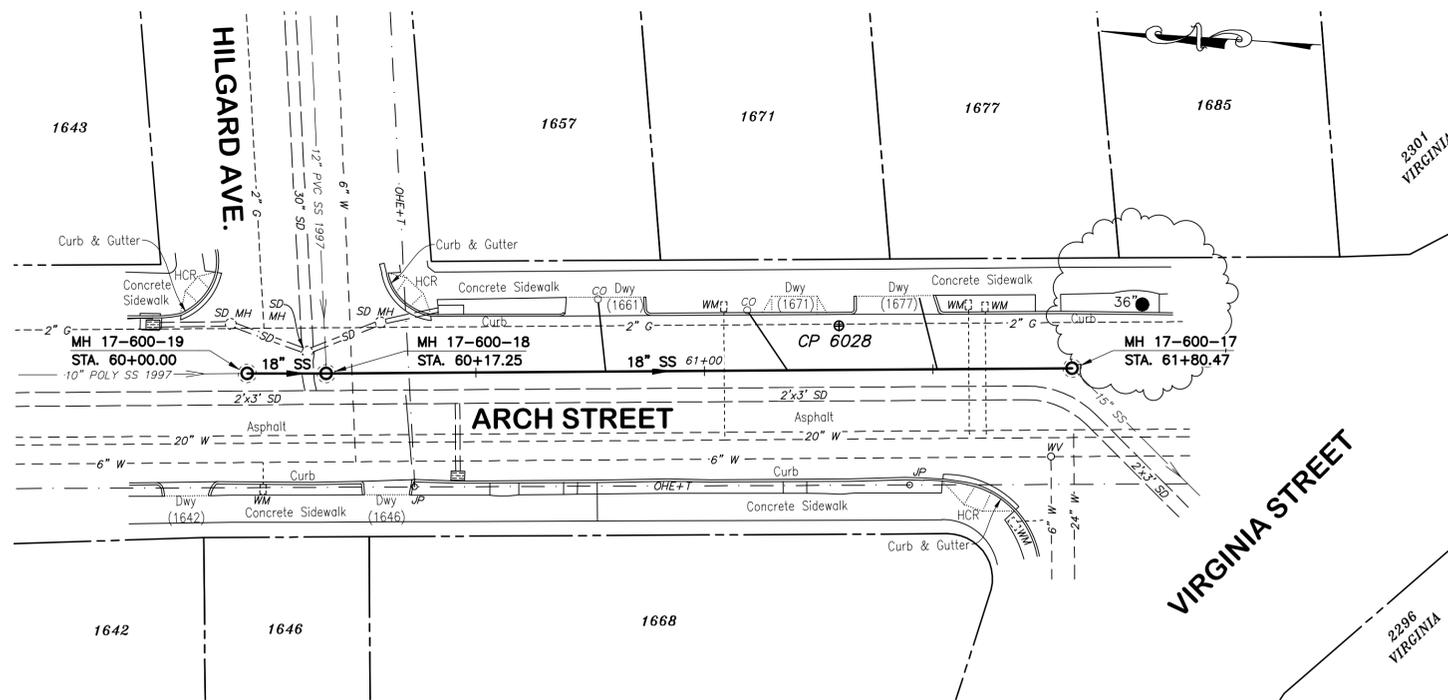
PLAN 8240  
 FILE 502-704  
 SHEET 15 OF 49

T:\Civil 3D Projects\1234831 HEARST SEWER REHAB\dwg\1234831-PP1-2-6.dwg [16 ARCH STREET] 11-04-22 12:09:50 PM marcelle



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## PROFILE



## SANITARY SEWER LAYOUT - ARCH STREET

STATION	Δ OR BEARING	DISTANCE	RADIUS	DESCRIPTION
60+00.00	S03°31'05.39"E	17.25'	---	MH 17-600-19
60+17.25	S04°01'12.97"E	173.22'	---	MH 17-600-18
61+80.47	---	---	---	MH 17-600-17

## PLAN

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*Laurie M. Loaiza*

Laurie M. LOAIZA  
DATE 11/03/2022



**COASTLAND | DCCM**  
11641 Blocker Dr, Ste 170, Auburn, CA 95603  
530.888.9929 | coastlandcivil.com

PROJECT MANAGER: \_\_\_\_\_ DATE \_\_\_\_\_  
DEPICTION OF MONUMENTS: \_\_\_\_\_ DATE \_\_\_\_\_  
SURVEY PARTY CHIEF: \_\_\_\_\_ DATE \_\_\_\_\_  
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SUPERVISING CIVIL ENGINEER: \_\_\_\_\_ DATE \_\_\_\_\_  
APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
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DESIGN: \_\_\_\_\_ DATE \_\_\_\_\_  
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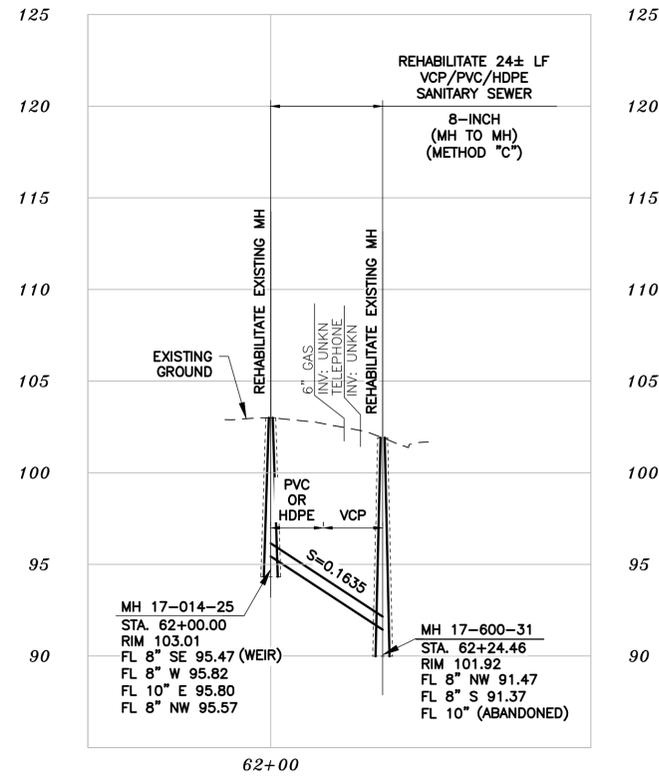
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VERT. 1" = 5'  
BOOK \_\_\_\_\_  
DATE 11/03/2022

CITY OF BERKELEY  
DEPARTMENT OF PUBLIC WORKS

SANITARY SEWER REHABILITATION  
**ARCH STREET**  
PLAN AND PROFILE

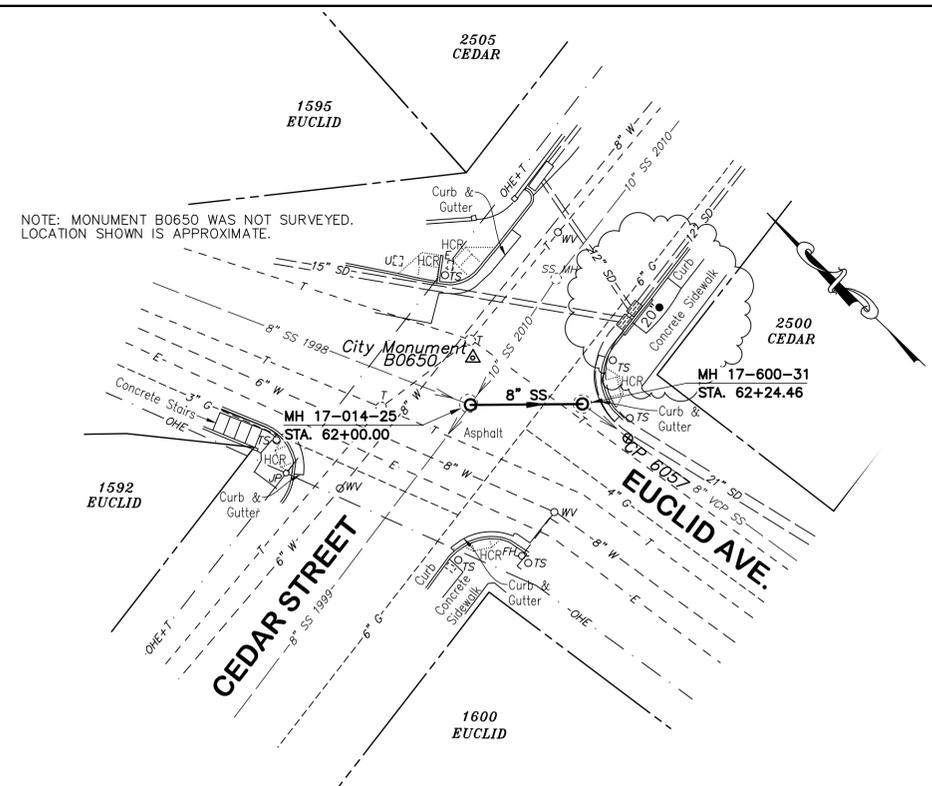
PLAN 8240  
FILE 502-704  
SHEET 16 OF 49

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# PROFILE



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## SANITARY SEWER LAYOUT - CEDAR STREET

STATION	Δ OR BEARING	DISTANCE	RADIUS	DESCRIPTION
62+00.00	S44°25'48.75"E	24.46'	---	MH 17-014-25
62+24.46	---	---	---	MH 17-600-31

# PLAN

*Laurie M. Loaiza*  
 LAURIE M. LOAIZA  
 11/03/2022  
 DATE



**COASTLAND | BCCM**  
 11641 Blocker Dr, Ste 170, Auburn, CA 95603  
 530.888.9929 | coastlandcivil.com

PROJECT MANAGER: \_\_\_\_\_ DATE \_\_\_\_\_  
 SURVEY PARTY CHIEF \_\_\_\_\_  
 WATERSHED REVIEW: \_\_\_\_\_ DATE \_\_\_\_\_

DEPICTION OF MONUMENTS: \_\_\_\_\_ DATE \_\_\_\_\_  
 SUBMITTED: \_\_\_\_\_ DATE \_\_\_\_\_  
 SUPERVISING CIVIL ENGINEER \_\_\_\_\_  
 APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
 CITY ENGINEER \_\_\_\_\_

DESIGN: ERG  
 DRAWN: JM/ERG  
 CHECK: LML  
 AS BUILT: \_\_\_\_\_

HORIZ. 1" = 20'  
 VERT. 1" = 5'  
 BOOK: \_\_\_\_\_  
 DATE 11/03/2022

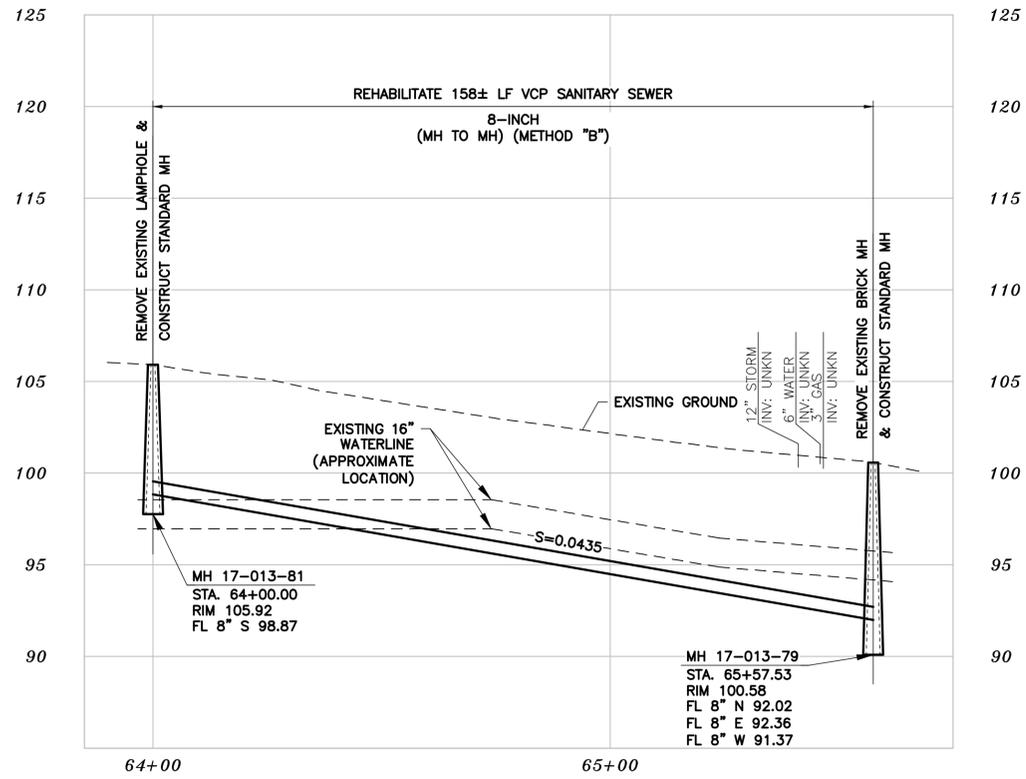
CITY OF BERKELEY  
 DEPARTMENT OF PUBLIC WORKS

SANITARY SEWER REHABILITATION  
**CEDAR STREET**  
 @ EUCLID AVENUE  
 PLAN AND PROFILE

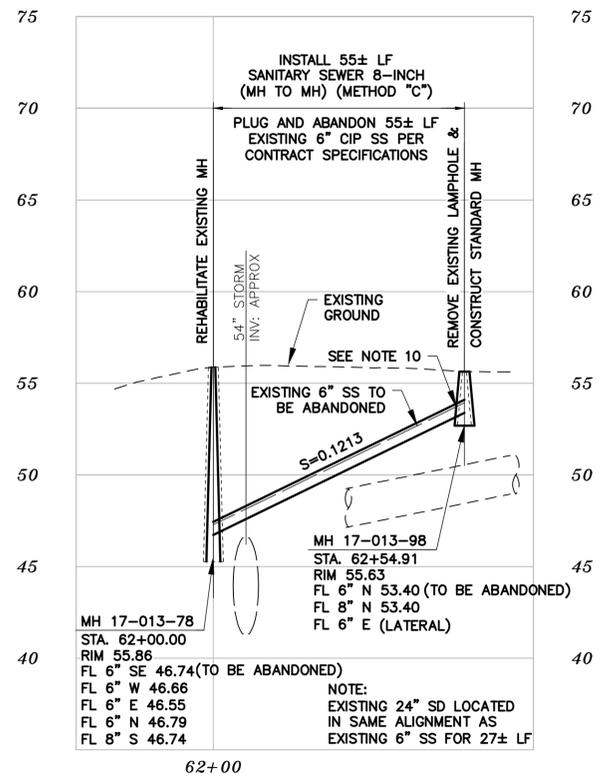
PLAN 8240  
 FILE 502-704  
 SHEET 17 OF 49

APPROVAL  
 DESCRIPTION  
 DATE  
 MARK  
 REVISION

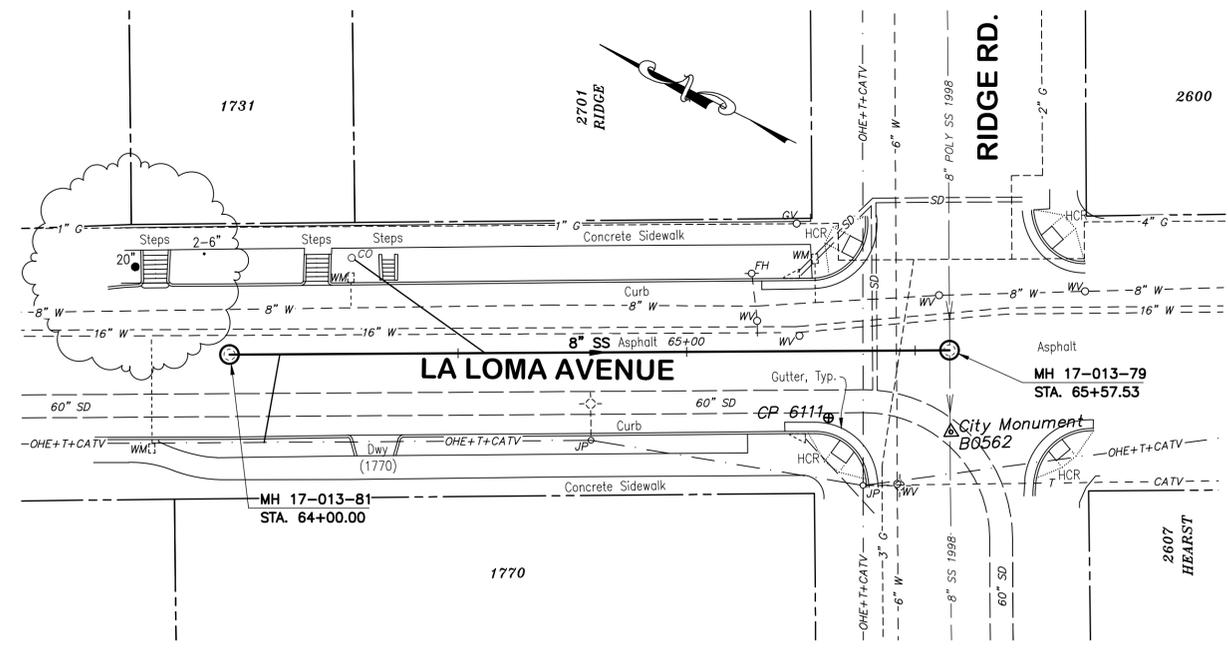




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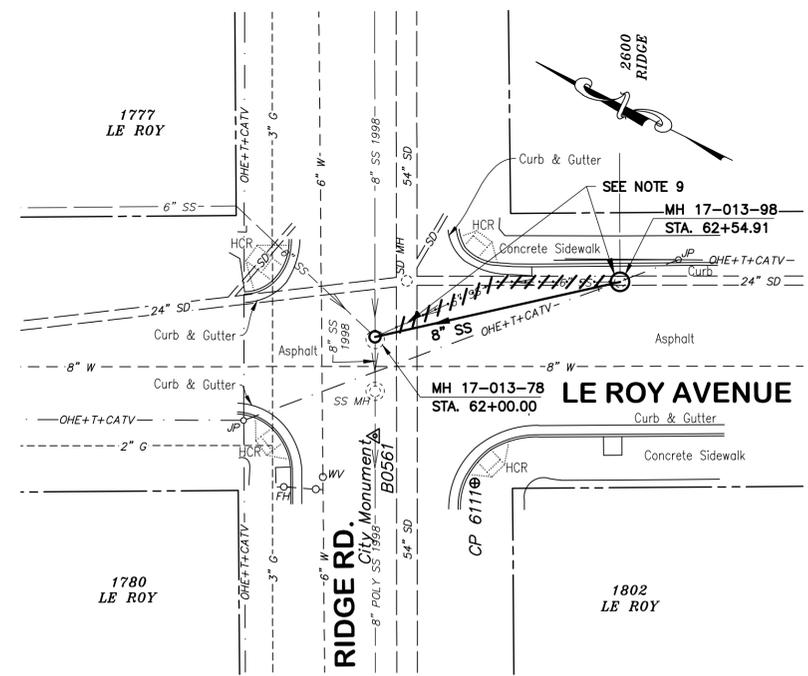


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SANITARY SEWER LAYOUT - LA LOMA AVENUE

STATION	Δ OR BEARING	DISTANCE	RADIUS	DESCRIPTION
64+00.00	S07°53'11.39"E	157.53'	---	MH 17-013-81
65+57.53	---	---	---	MH 17-013-79



SANITARY SEWER LAYOUT - LEROY AVENUE

STATION	Δ OR BEARING	DISTANCE	RADIUS	DESCRIPTION
62+00.00	S20°14'49.42"E	54.91'	---	MH 17-013-78
62+24.46	---	---	---	MH 17-013-98

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  - CONTRACTOR SHALL EXERCISE CAUTION IN THE VICINITY OF EXISTING STORM DRAIN. HAND DIG AS NECESSARY TO PROTECT STORM DRAIN.
  - CONCRETE CAP IS REQUIRED FOR MAINS WITH LESS THAN 3- FEET OF COVER.

# PLAN

LAURIE M. LOAIZA
   
 11/03/2022
   
 DATE

**COASTLAND | BCCM**
  
 11641 Blocker Dr, Ste 170, Auburn, CA 95603
   
 530.888.9929 | coastlandcivil.com

PROJECT MANAGER:	DATE	DEPICTION OF MONUMENTS:	DATE	SUBMITTED:	DATE	DESIGN:	ERG	HORIZ. 1" = 20'
		SURVEY PARTY CHIEF:		DRAWN:	R.D.E.	DRAWN:	JM/ERG	VERT. 1" = 5'
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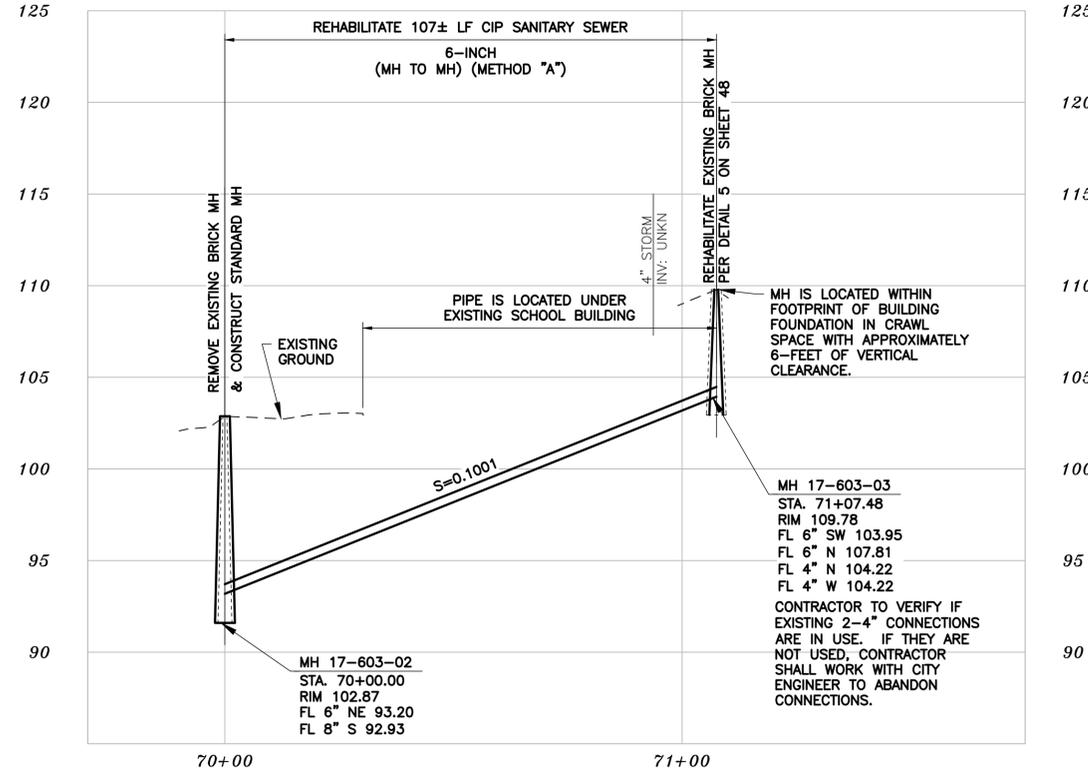
CITY OF BERKELEY
   
 DEPARTMENT OF PUBLIC WORKS
   
 SANITARY SEWER REHABILITATION
   
 LA LOMA AVE, LEROY AVE
   
 @ RIDGE ROAD
   
 PLAN AND PROFILE

PLAN 8240
   
 FILE 502-704
   
 SHEET 19 OF 49

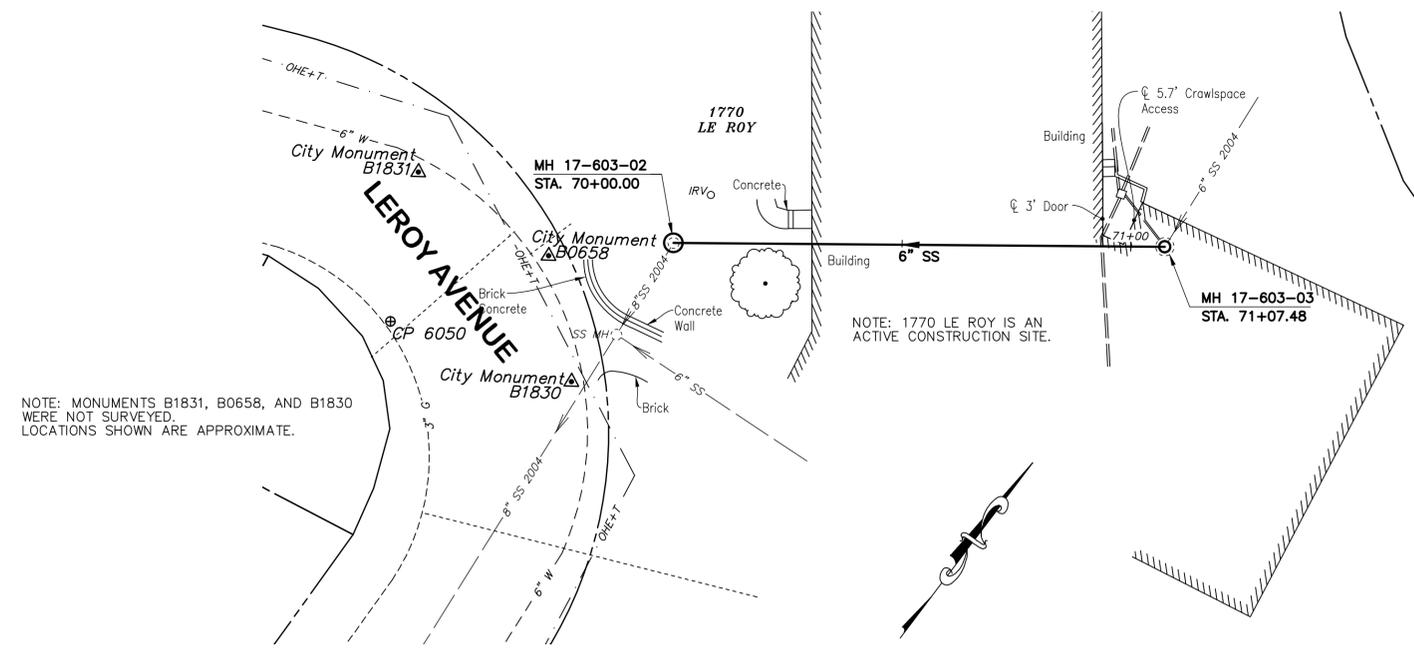
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### PROFILE



### SANITARY SEWER LAYOUT - HILLSIDE SCHOOL

STATION	Δ OR BEARING	DISTANCE	RADIUS	DESCRIPTION
69+99.15	N53°17'07.22"E	107.48'	---	MH 17-603-02
71+06.63	---	---	---	MH 17-603-03

### PLAN

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*Laurie M. Loaiza*  
 LAURIE M. LOAIZA  
 11/03/2022  
 DATE

**COASTLAND | BCCM**  
 11641 Blocker Dr, Ste 170, Auburn, CA 95603  
 530.888.9929 | coastlandcivil.com

PROJECT MANAGER: _____ DATE _____	DEPICTION OF MONUMENTS: _____ DATE _____	SUBMITTED: _____ DATE _____	DESIGN: <u>ERG</u>	HORIZ. 1" = 20'
SURVEY PARTY CHIEF: _____ DATE _____	WATERSHED REVIEW: _____ DATE _____	SUPERVISING CIVIL ENGINEER: _____ DATE _____	DRAWN: <u>JM/ERG</u>	VERT. 1" = 5'
FOR REDUCED PLANS - ORIGINAL SCALE IS IN INCHES	CITY ENGINEER: _____ DATE _____	APPROVED: _____ DATE _____	CHECK: <u>LML</u>	BOOK: _____
			AS BUILT: _____	DATE 11/03/2022

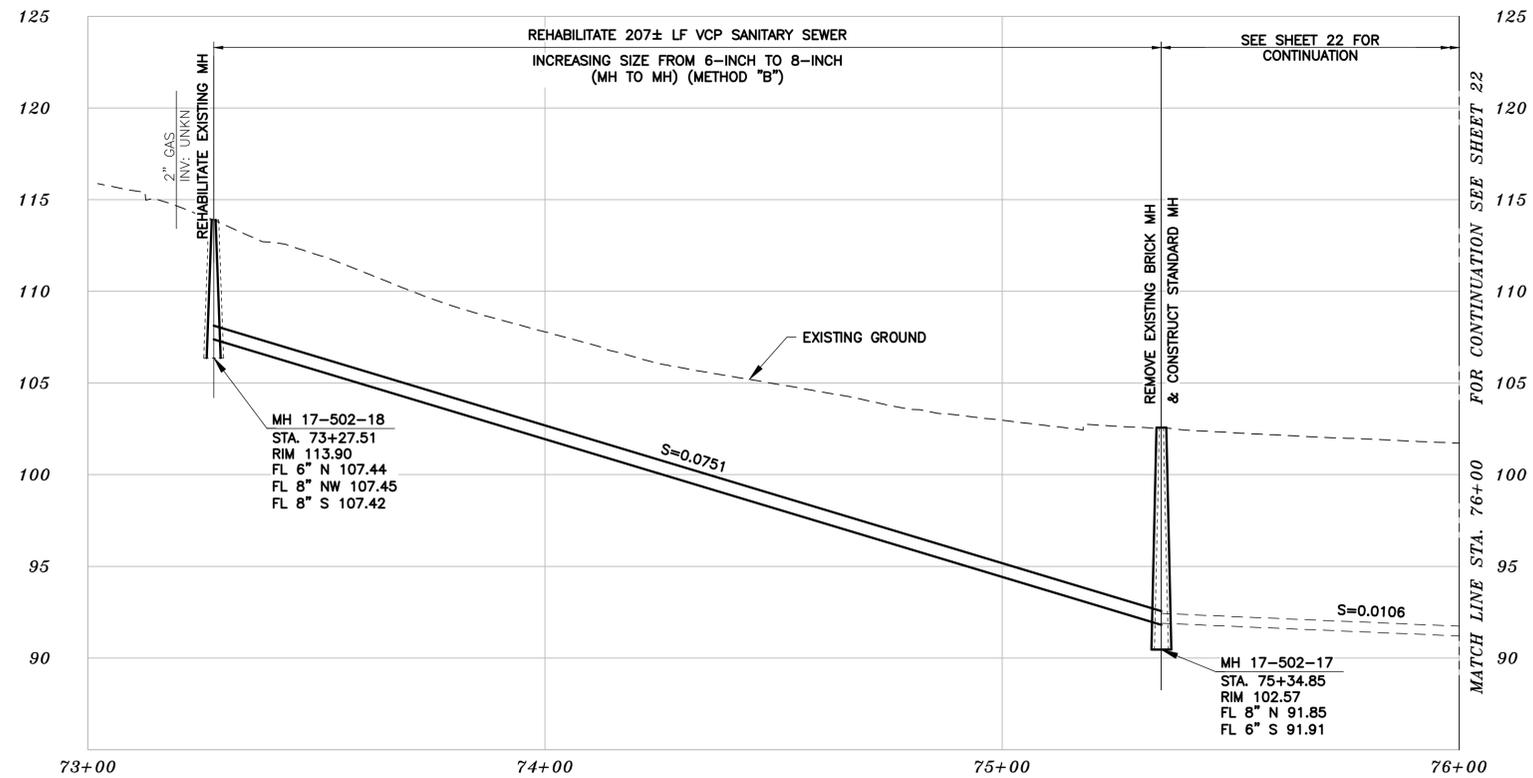
CITY OF BERKELEY  
 DEPARTMENT OF PUBLIC WORKS

SANITARY SEWER REHABILITATION  
**LERoy AVENUE**  
 @ HILLSIDE SCHOOL  
 PLAN AND PROFILE

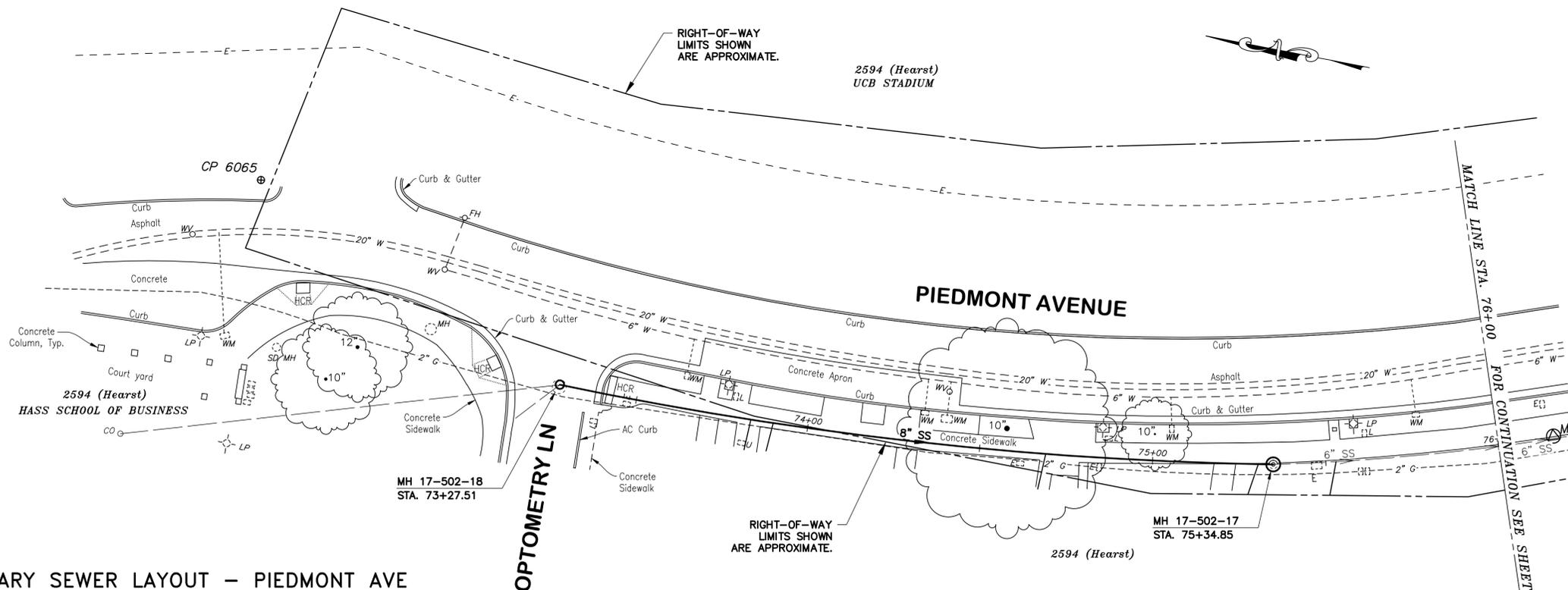
PLAN 8240  
 FILE 502-704  
 SHEET 20 OF 49

APPROVAL  
 DESCRIPTION  
 DATE  
 MARK  
 REVISION

THE TOPOGRAPHIC SURVEY FOR THIS PORTION OF THE PROJECT IS NOT ON THE CITY OF BERKELEY DATUM. AT CITY REQUEST, SURVEYOR USED AN ASSUMED LOCAL CONTROL AT EACH SITE. GROUND ELEVATIONS, MANHOLE RIM AND INVERT ELEVATIONS, ETC. SHALL NOT BE USED FOR PURPOSES OUTSIDE OF THIS PROJECT.



### PROFILE



### SANITARY SEWER LAYOUT - PIEDMONT AVE

STATION	Δ OR BEARING	DISTANCE	RADIUS	DESCRIPTION
73+27.51	APPROX	207.34'	APPROX	MH 17-502-18, BC
75+34.85	APPROX	65.16'	APPROX	MH 17-502-17, CC
76+00.00	---	---	---	MATCH LINE

### PLAN

- NOTES:**
- FOR GENERAL NOTES SEE SHEET 4 OF THE PLANS.
  - LOCATE, RECONSTRUCT, EXTEND AND CONNECT ACTIVE LATERALS TO NEW SEWER MAIN. REMOVE EXISTING CLEANOUTS AND PROVIDE TWO-WAY CLEANOUTS WITH RISER, FRAME, CONCRETE COLLAR AND COVER.
  - LOWER LATERALS SHALL BE HDPE SDR-17.
  - RECONSTRUCT CITY MONUMENTS DISTURBED BY SEWER INSTALLATION. REFER TO STANDARD DETAIL PLAN NOS. 8090 & 8091 OF THE SPECIFICATIONS.
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LAURIE M. LOAIZA  
 11/03/2022  
 DATE

**COASTLAND | DCCM**  
 11641 Blocker Dr, Ste 170, Auburn, CA 95603  
 530.888.9929 | coastlandcivil.com

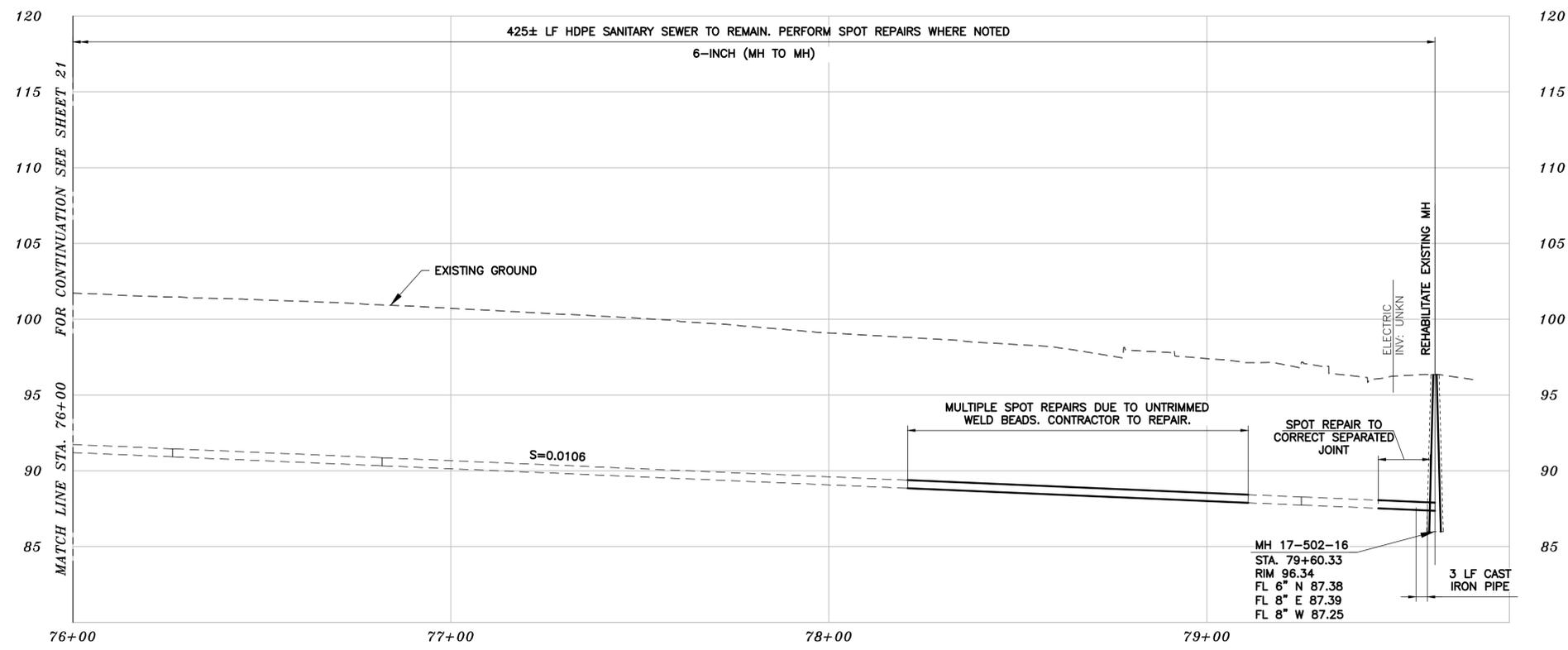
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SURVEY PARTY CHIEF: _____ DATE _____	WATERSHED REVIEW: _____ DATE _____	SUPERVISING CIVIL ENGINEER: _____ DATE _____	DRAWN: <u>JM/ERG</u>	VERT. 1" = 5'
FOR REDUCED PLANS - ORIGINAL SCALE IS IN INCHES	CITY ENGINEER: _____ DATE _____	APPROVED: _____ DATE _____	CHECK: <u>LML</u>	BOOK: _____
			AS BUILT: _____	DATE 11/03/2022

**CITY OF BERKELEY**  
 DEPARTMENT OF PUBLIC WORKS  
**SANITARY SEWER REHABILITATION**  
**PIEDMONT AVENUE**  
 PLAN AND PROFILE

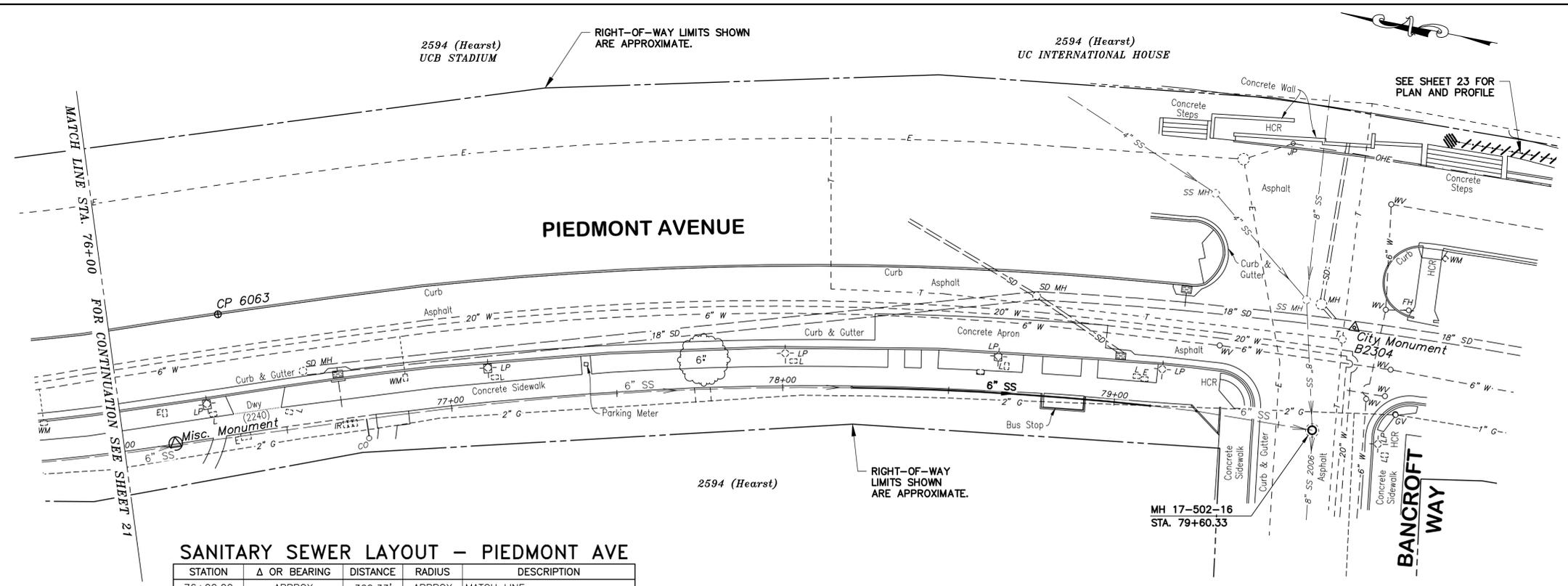
PLAN 8240  
 FILE 502-704  
 SHEET 21 OF 49

T:\Civil 3D Projects\1234831 HEARST SEWER REHAB.dwg\1234831-PP3-4-.dwg [21 PIEDMONT AVENUE] 11-04-22 10:53:07 AM marcelle

THE TOPOGRAPHIC SURVEY FOR THIS PORTION OF THE PROJECT IS NOT ON THE CITY OF BERKELEY DATUM. AT CITY REQUEST, SURVEYOR USED AN ASSUMED LOCAL CONTROL AT EACH SITE. GROUND ELEVATIONS, MANHOLE RIM AND INVERT ELEVATIONS, ETC. SHALL NOT BE USED FOR PURPOSES OUTSIDE OF THIS PROJECT.



### PROFILE



### SANITARY SEWER LAYOUT – PIEDMONT AVE

STATION	Δ OR BEARING	DISTANCE	RADIUS	DESCRIPTION
76+00.00	APPROX	360.33'	APPROX	MATCH LINE
79+60.33	---	---	---	MH-17-502-16

### PLAN

- NOTES:**
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  - RIGHT OF WAY LIMITS SHOWN ON THIS SHEET IS APPROXIMATE.

*Laurie M. Loaiza*  
 LAURIE M. LOAIZA  
 11/03/2022  
 DATE



**COASTLAND | BCCM**  
 11641 Blocker Dr, Ste 170, Auburn, CA 95603  
 530.888.9929 | coastlandcivil.com

PROJECT MANAGER: \_\_\_\_\_ DATE \_\_\_\_\_  
 SURVEY PARTY CHIEF: \_\_\_\_\_ DATE \_\_\_\_\_  
 WATERSHED REVIEW: \_\_\_\_\_ DATE \_\_\_\_\_

DEPICTION OF MONUMENTS: \_\_\_\_\_ DATE \_\_\_\_\_  
 SURVEY PARTY CHIEF: \_\_\_\_\_ DATE \_\_\_\_\_  
 WATERSHED REVIEW: \_\_\_\_\_ DATE \_\_\_\_\_

SUBMITTED: \_\_\_\_\_ DATE \_\_\_\_\_  
 SUPERVISING CIVIL ENGINEER: \_\_\_\_\_  
 APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
 CITY ENGINEER: \_\_\_\_\_

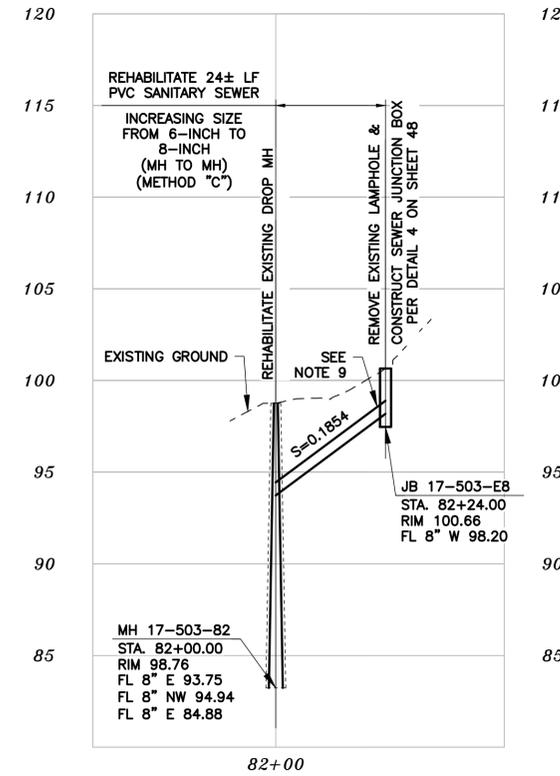
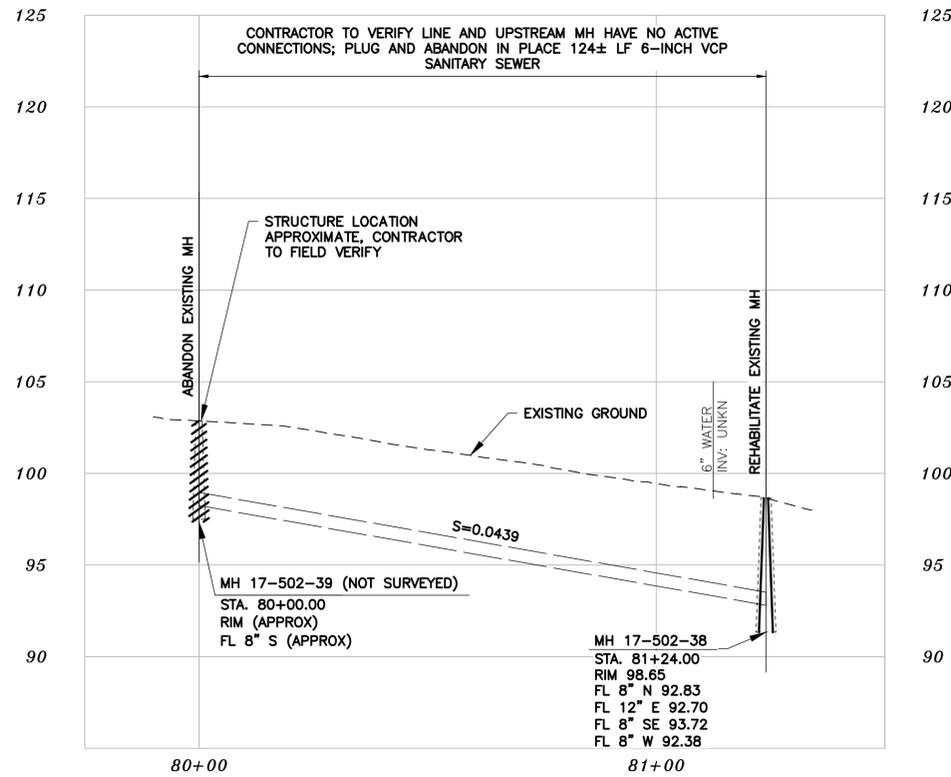
DESIGN: ERG  
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 CHECK: LML  
 AS BUILT: \_\_\_\_\_  
 DATE: 11/03/2022

HORIZ. 1" = 20'  
 VERT. 1" = 5'  
 BOOK: \_\_\_\_\_  
 DATE: 11/03/2022

**SANITARY SEWER REHABILITATION  
 PIEDMONT AVENUE**  
 DEPARTMENT OF PUBLIC WORKS  
 PLAN AND PROFILE

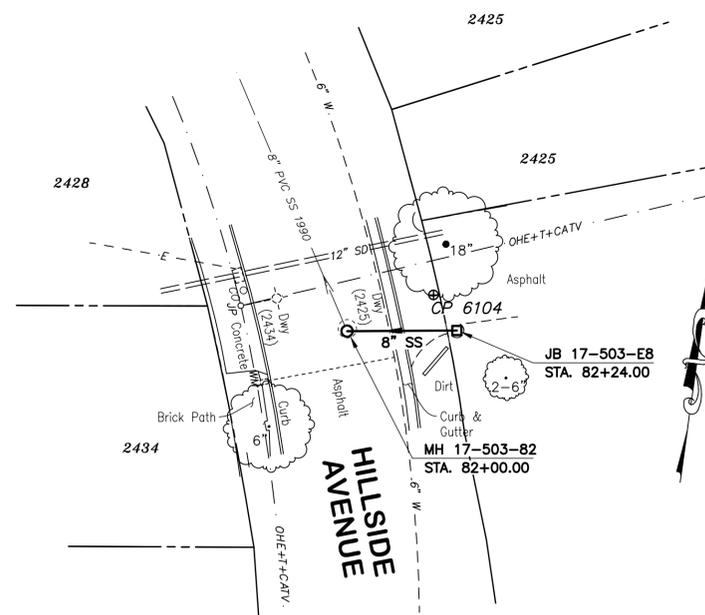
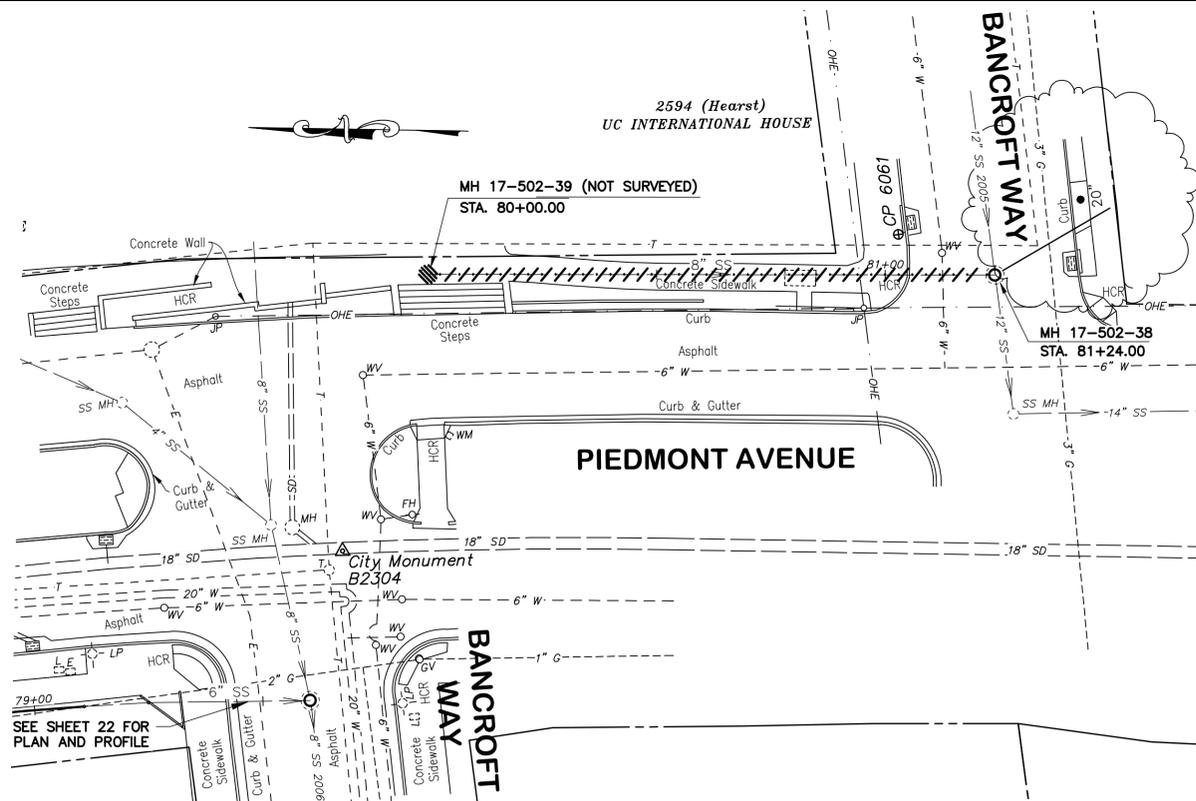
PLAN 8240  
 FILE 502-704  
 SHEET 22 OF 49

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## PROFILE



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  - CONCRETE CAP IS REQUIRED FOR MAINS WITH LESS THAN 3- FEET OF COVER.

### SANITARY SEWER LAYOUT - PIEDMONT AVE

STATION	Δ OR BEARING	DISTANCE	RADIUS	DESCRIPTION
80+00.00	S00°49'44.15"E	124.00'	---	MH 17-502-39
81+24.00	---	---	---	MH 17-502-38

### SANITARY SEWER LAYOUT - HILLSIDE AVE

STATION	Δ OR BEARING	DISTANCE	RADIUS	DESCRIPTION
82+00.00	N81°40'13.70"E	24.00'	---	MH 17-503-82
82+24.00	---	---	---	MH 17-503-E8

## PLAN

**COASTLAND | DCCM**  
 11641 Blocker Dr, Ste 170, Auburn, CA 95603  
 530.888.9929 | coastlandcivil.com

PROJECT MANAGER:	DATE	DEPICTION OF MONUMENTS:	DATE	SUBMITTED:	DATE	DESIGN:	ERG	HORIZ. 1" = 20'
		SURVEY PARTY CHIEF:		SUPERVISING CIVIL ENGINEER:	R.C.E.	DRAWN:	JM/ERG	VERT. 1" = 5'
		WATERSHED REVIEW:	DATE	APPROVED:	DATE	CHECK:	LML	BOOK
				CITY ENGINEER:	EXP.	AS BUILT:		DATE 11/03/2022

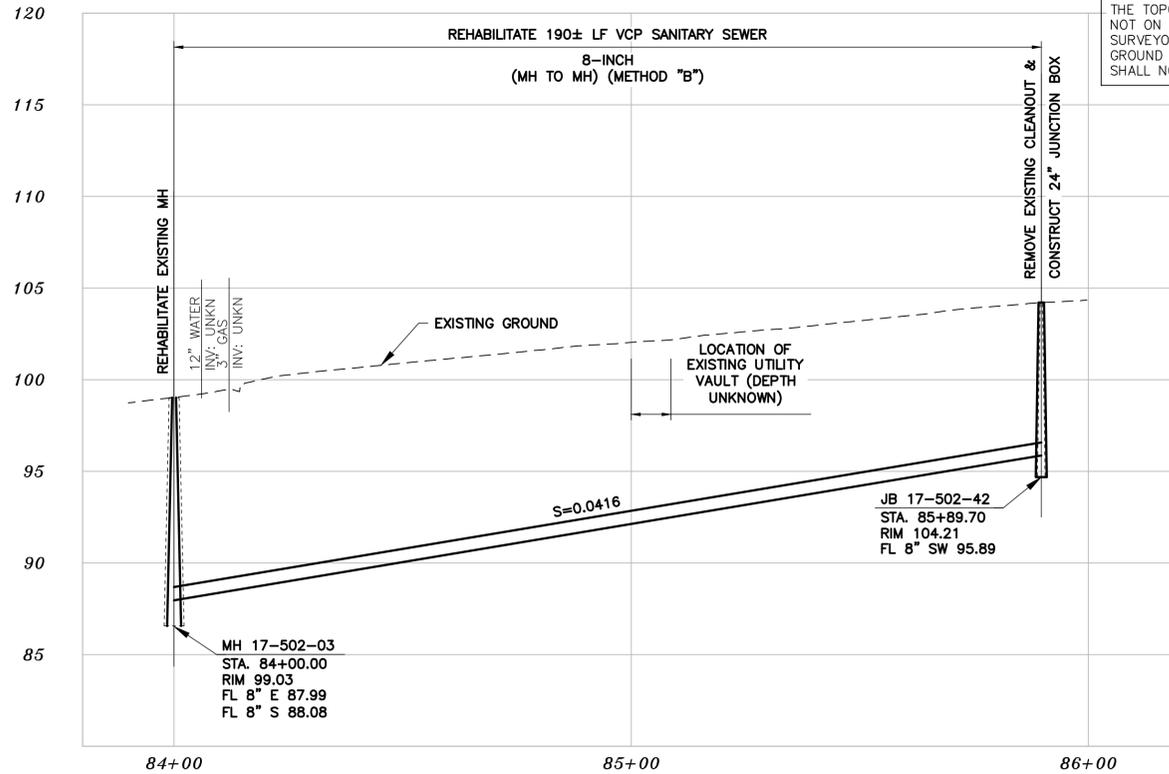
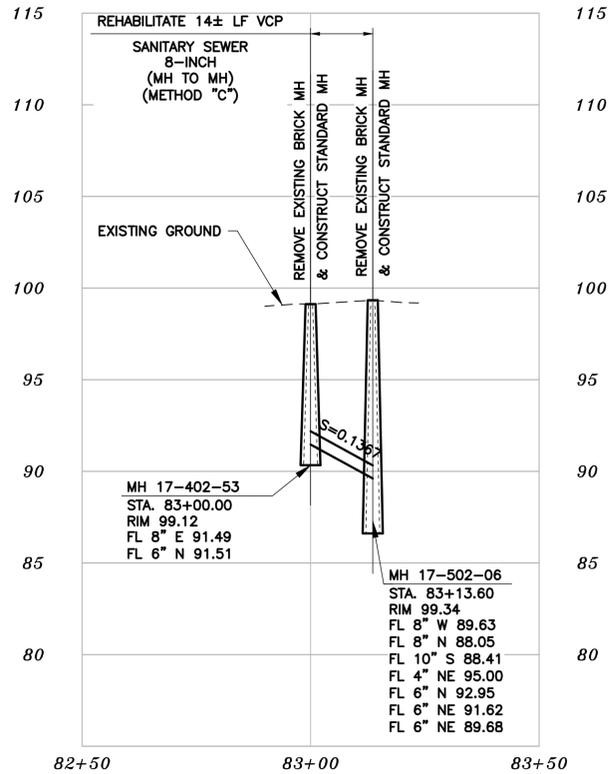
**CITY OF BERKELEY** SANITARY SEWER REHABILITATION  
 DEPARTMENT OF PUBLIC WORKS **PIEDMONT AVE, HILLSIDE AVE**  
 PLAN AND PROFILE

*Laurie M. Loaiza*  
 LAURIE M. LOAIZA  
 11/03/2022  
 DATE

**REGISTERED PROFESSIONAL ENGINEER**  
 LAURIE M. LOAIZA  
 No. C65951  
 CIVIL  
 STATE OF CALIFORNIA

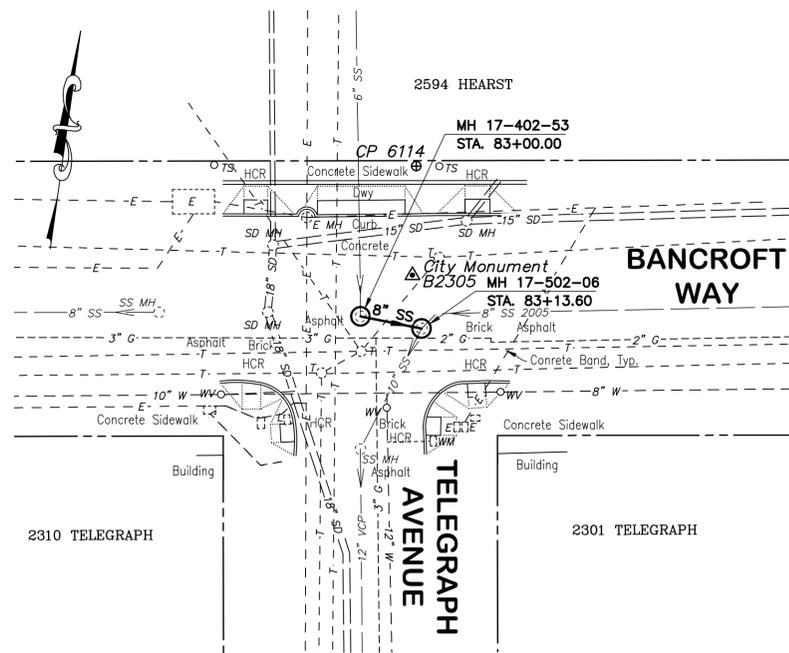
PLAN 8240  
 FILE 502-704  
 SHEET 23 OF 49

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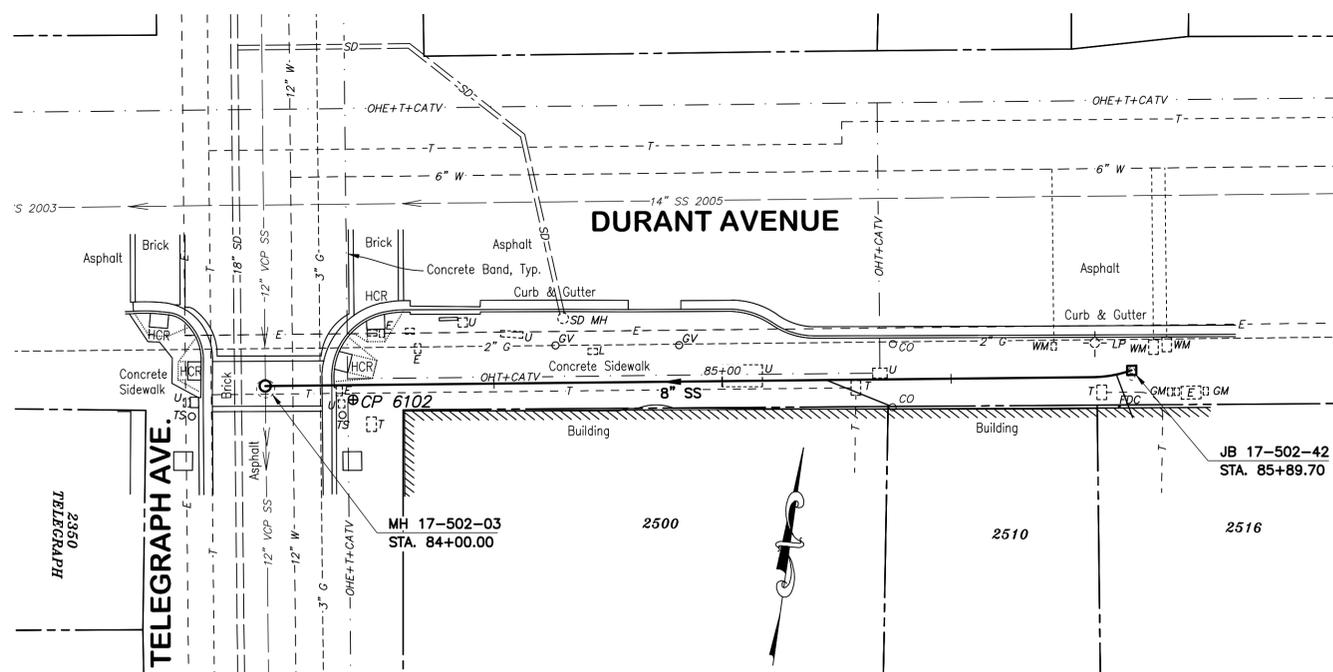
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## PROFILE



SANITARY SEWER LAYOUT - BANCROFT

STATION	Δ OR BEARING	DISTANCE	RADIUS	DESCRIPTION
83+00.00	s86°52'51.22"E	13.6'	---	MH 17-502-03
83+13.60	---	---	---	JB 17-502-42



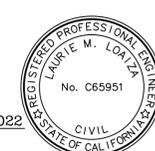
SANITARY SEWER LAYOUT - DURANT

STATION	Δ OR BEARING	DISTANCE	RADIUS	DESCRIPTION
84+00.00	N81°23'38.94"E	189.70'	---	MH 17-502-03
85+89.70	---	---	---	JB 17-502-42

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## PLAN

*Laurie M. Loaiza*  
 LAURIE M. LOAIZA  
 11/03/2022  
 DATE

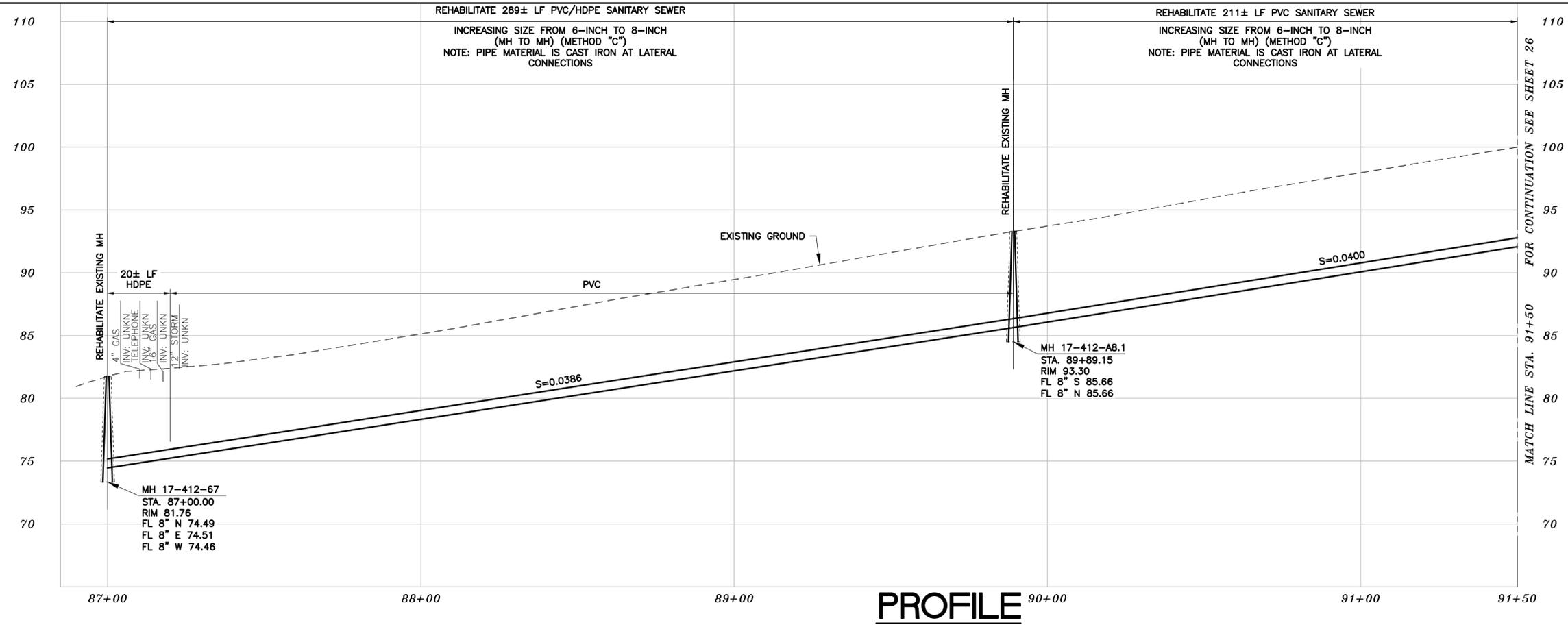


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 530.888.9929 | coastlandcivil.com

PROJECT MANAGER: _____ DATE _____	DEPICTION OF MONUMENTS: _____ DATE _____	SUBMITTED: _____ DATE _____	DESIGN: <u>ERG</u>	HORIZ. 1" = 20'
_____	SURVEY PARTY CHIEF: _____ DATE _____	SUPERVISING CIVIL ENGINEER: _____	DRAWN: <u>JM/ERG</u>	VERT. 1" = 5'
0 1 2 3 FOR REDUCED PLANS - ORIGINAL SCALE IS IN INCHES	WATERSHED REVIEW: _____ DATE _____	APPROVED: _____ DATE _____	CHECK: <u>LML</u>	BOOK: _____
		CITY ENGINEER: _____	AS BUILT: _____	DATE 11/03/2022

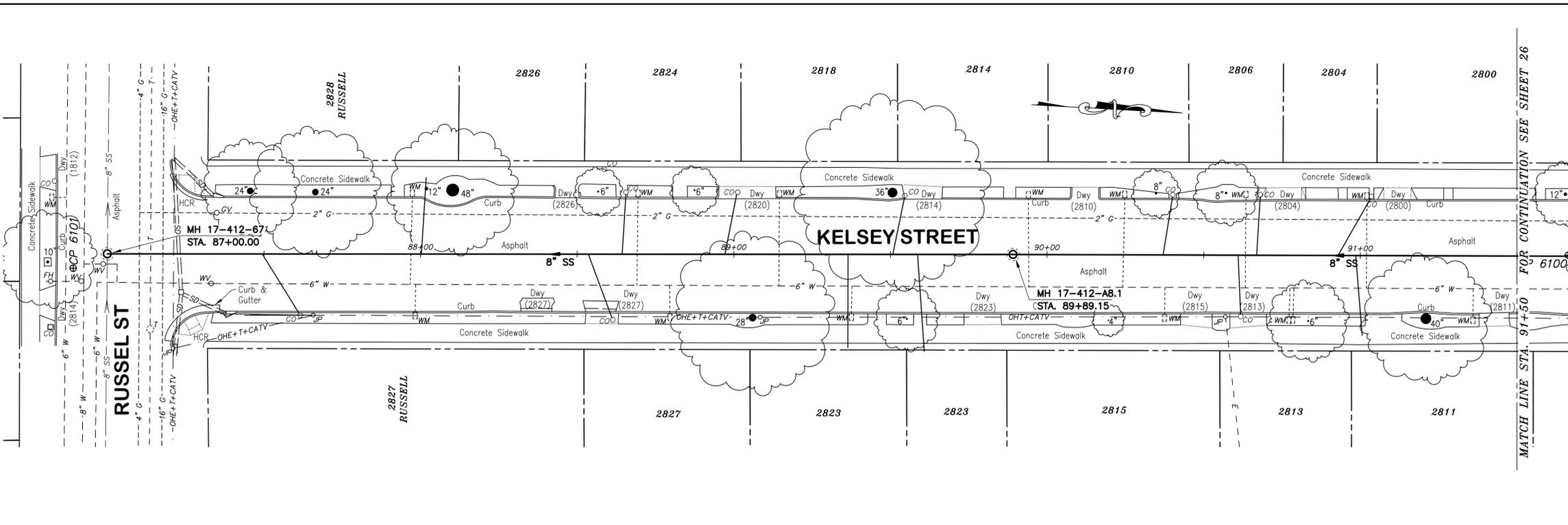
CITY OF BERKELEY  
 DEPARTMENT OF PUBLIC WORKS  
**SANITARY SEWER REHABILITATION  
 DURANT AND BANCROFT**  
 TELEGRAPH AVE  
 PLAN AND PROFILE

PLAN 8240  
 FILE 502-704  
 SHEET 24 OF 49



THE TOPOGRAPHIC SURVEY FOR THIS PORTION OF THE PROJECT IS NOT ON THE CITY OF BERKELEY DATUM. AT CITY REQUEST, SURVEYOR USED AN ASSUMED LOCAL CONTROL AT EACH SITE. GROUND ELEVATIONS, MANHOLE RIM AND INVERT ELEVATIONS, ETC. SHALL NOT BE USED FOR PURPOSES OUTSIDE OF THIS PROJECT.

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  - CONTRACTOR SHALL WORK WITH PG&E TO LOCATE ALL PG&E FACILITIES. AT PG&E'S OPTION, PG&E MAY REQUIRE A PG&E SPECIAL INSPECTOR OBSERVE ANY WORK WITHIN 3- FEET OF AN EXISTING PG&E FACILITY. CONTRACTOR SHALL SCHEDULE WORK ACCORDINGLY.

### SANITARY SEWER LAYOUT – KELSEY STREET

STATION	Δ OR BEARING	DISTANCE	RADIUS	DESCRIPTION
87+00.00	N03°05'05.24"W	289.15'	---	MH 17-412-67
92+00.26	N02°55'59.20"W	160.85'	---	MH
91+50.00	---	---	---	MATCH LINE

### PLAN

*Laurie M. Loaliza*  
 LAURIE M. LOALIZA  
 11/03/2022  
 DATE



**COASTLAND | DCCM**  
 11641 Blocker Dr, Ste 170, Auburn, CA 95603  
 530.888.9929 | coastlandcivil.com

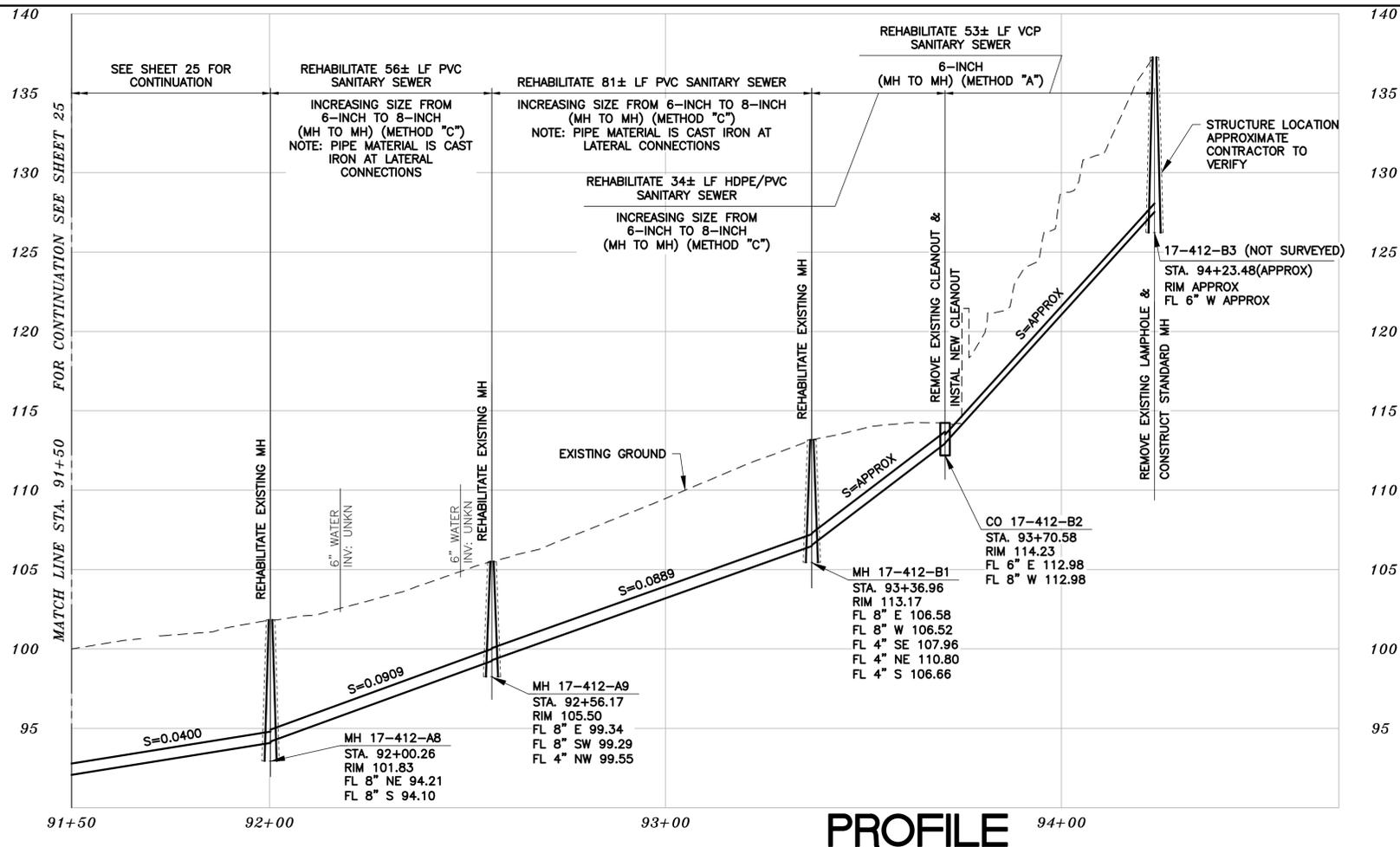
PROJECT MANAGER: _____ DATE _____	DEPICTION OF MONUMENTS: _____ DATE _____	SUBMITTED: _____ DATE _____	DESIGN: <u>ERG</u>	HORIZ. 1" = 20'
SURVEY PARTY CHIEF: _____ DATE _____	WATERSHED REVIEW: _____ DATE _____	SUPERVISING CIVIL ENGINEER: _____ DATE _____	DRAWN: <u>JM/ERG</u>	VERT. 1" = 5'
FOR REDUCED PLANS - ORIGINAL SCALE IS IN INCHES	APPROVED: _____ DATE _____	CITY ENGINEER: _____ DATE _____	CHECK: <u>LML</u>	BOOK: _____
			AS BUILT: _____	DATE 11/03/2022

**CITY OF BERKELEY**  
 DEPARTMENT OF PUBLIC WORKS

**SANITARY SEWER REHABILITATION**  
**KELSEY STREET**

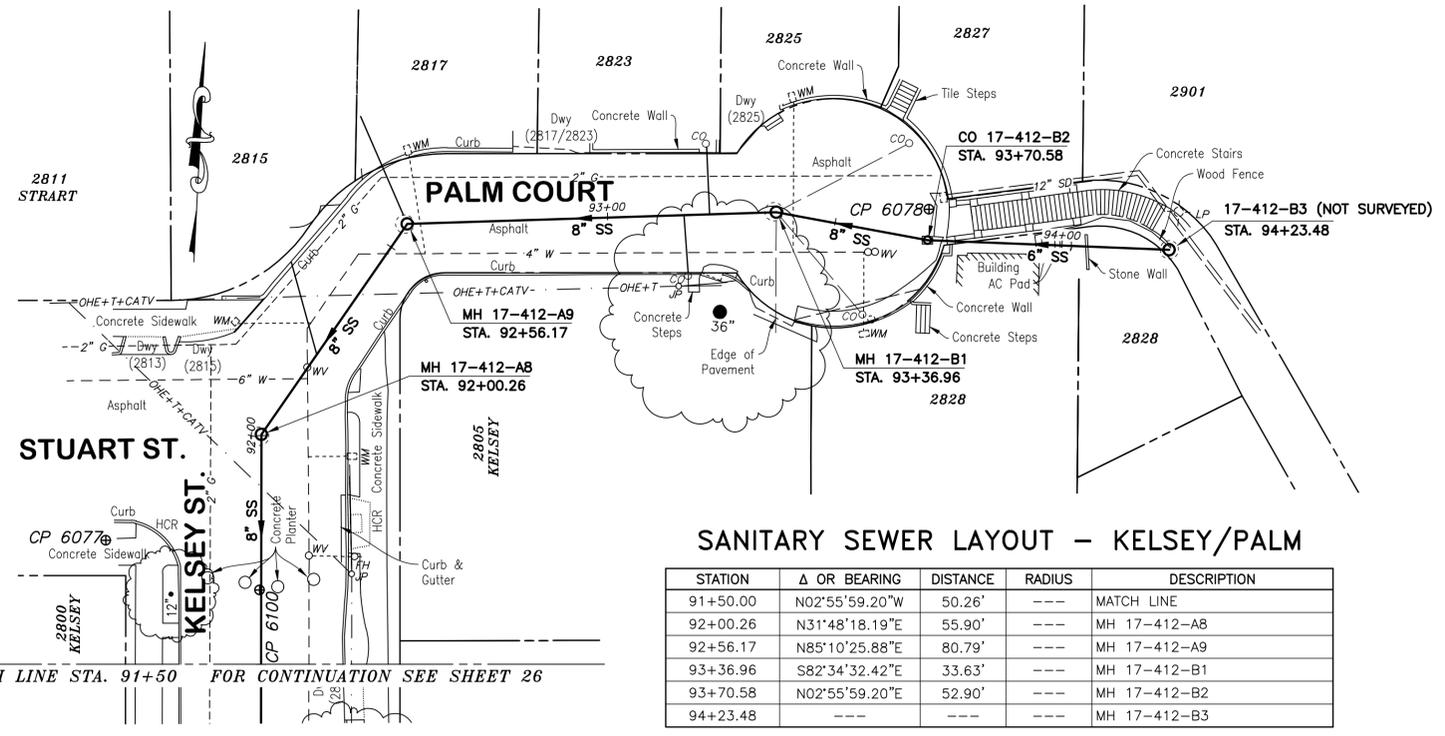
PLAN 8240  
 FILE 502-704  
 SHEET 25 OF 49

T:\Civil\_3D Projects\1234831 HEARST SEWER REHAB.dwg [25 KELSEY STREET] 11-04-22 10:53:56 AM marcella



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### PROFILE



**SANITARY SEWER LAYOUT - KELSEY/PALM**

STATION	Δ OR BEARING	DISTANCE	RADIUS	DESCRIPTION
91+50.00	N02°55'59.20"W	50.26'	----	MATCH LINE
92+00.26	N31°48'18.19"E	55.90'	----	MH 17-412-A8
92+56.17	N85°10'25.88"E	80.79'	----	MH 17-412-A9
93+36.96	S82°34'32.42"E	33.63'	----	MH 17-412-B1
93+70.58	N02°55'59.20"E	52.90'	----	MH 17-412-B2
94+23.48	---	---	---	MH 17-412-B3

- NOTES:**
- FOR GENERAL NOTES SEE SHEET 4 OF THE PLANS.
  - LOCATE, RECONSTRUCT, EXTEND AND CONNECT ACTIVE LATERALS TO NEW SEWER MAIN. REMOVE EXISTING CLEANOUTS AND PROVIDE TWO-WAY CLEANOUTS WITH RISER, FRAME, CONCRETE COLLAR AND COVER.
  - LOWER LATERALS SHALL BE HDPE SDR-17.
  - RECONSTRUCT CITY MONUMENTS DISTURBED BY SEWER INSTALLATION REFER TO STANDARD DETAIL PLAN NOS. 8090 & 8091 OF THE SPECIFICATIONS.
  - IN ACCORDANCE WITH SPECIAL CONDITION NO. 13 IN THE SPECIAL PROVISIONS, PRIOR TO EXCAVATION, CONTRACTOR SHALL POTHOLE AND VERIFY THE LOCATION AND DEPTH OF EXISTING STORM DRAINS, SANITARY SEWER MAINS, SEWER LATERALS, AND OTHER UTILITIES OR CONDUITS TO CONFIRM CLEARANCE TO THE WORK BEING PERFORMED. IF CLEARANCE IS LESS THAN 12 INCHES OR IF THERE IS AN EXISTING CONCRETE SADDLE AT THE CROSSING, NOTIFY ENGINEER IMMEDIATELY PRIOR TO CONTINUING WORK.
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### PLAN

*Laurie M. Loaiza*  
 LAURIE M. LOAIZA  
 No. C65951  
 REGISTERED PROFESSIONAL ENGINEER  
 CIVIL  
 STATE OF CALIFORNIA  
 11/03/2022  
 DATE

**COASTLAND | DCCM**  
 11641 Blocker Dr, Ste 170, Auburn, CA 95603  
 530.888.9929 | coastlandcivil.com

PROJECT MANAGER: _____ DATE _____	DEPICTION OF MONUMENTS: _____ DATE _____	SUBMITTED: _____ DATE _____	DESIGN: <u>ERG</u>	HORIZ. 1" = 20'
SURVEY PARTY CHIEF: _____ DATE _____	WATERSHED REVIEW: _____ DATE _____	SUPERVISING CIVIL ENGINEER: _____ DATE _____	DRAWN: <u>JM/ERG</u>	VERT. 1" = 5'
		APPROVED: _____ DATE _____	CHECK: <u>LML</u>	BOOK: _____
		CITY ENGINEER: _____ DATE _____	AS BUILT: _____	DATE: 11/03/2022

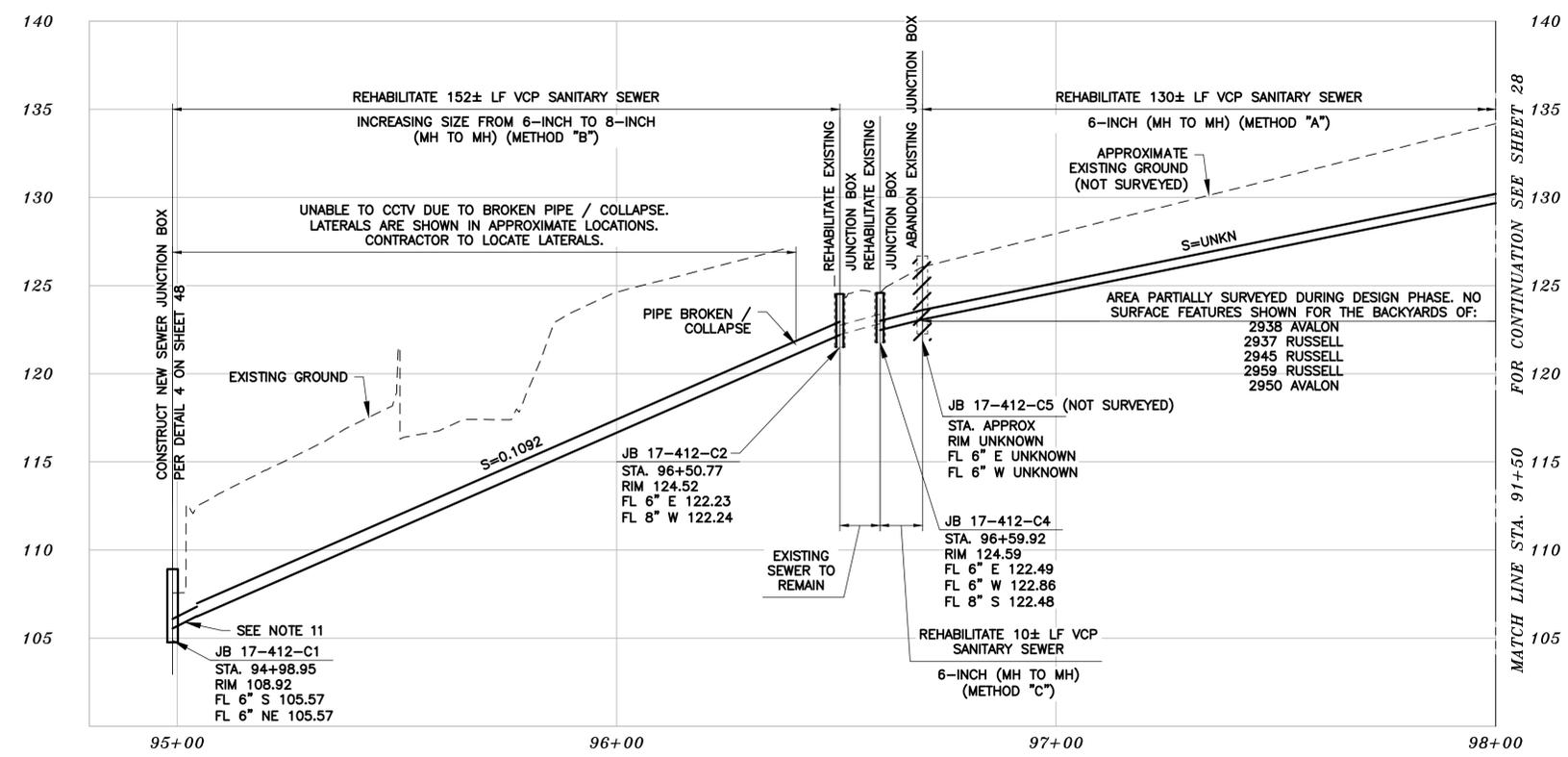
**CITY OF BERKELEY**  
 DEPARTMENT OF PUBLIC WORKS

**SANITARY SEWER REHABILITATION**  
**PALM COURT**  
 PLAN AND PROFILE

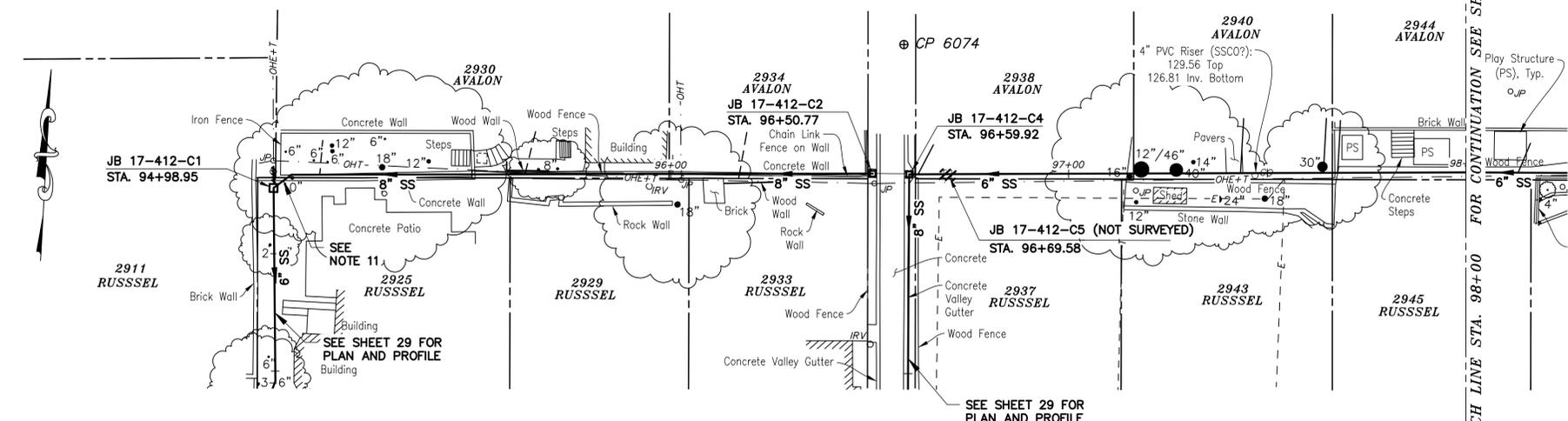
PLAN 8240  
 FILE 502-704  
 SHEET 26 OF 49

T:\Civil 3D Projects\1234831 HEARST SEWER REHAB.dwg\1234831-PP3-4-.dwg [26 PALM COURT] 11-04-22 10:54:06 AM marcelle

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### PROFILE



### SANITARY SEWER LAYOUT - RUSSELL BACKLINE

STATION	Δ OR BEARING	DISTANCE	RADIUS	DESCRIPTION
95+00.00	N86°57'07.38"E (APPROX)	150.77'	---	CO 17-412-C1 (CONNECTED TO MAIN SOUTH OF STRUCTURE)
96+50.77	---	---	---	JB 17-412-C2
96+59.92	N86°33'54.92"E	9.66'	---	JB 17-412-C4
96+69.58	N86°33'54.92"E	130.42'	---	JB 17-412-C5
98+00.00	---	---	---	MATCH LINE

### PLAN

- NOTES:**
- FOR GENERAL NOTES SEE SHEET 4 OF THE PLANS.
  - LOCATE, RECONSTRUCT, EXTEND AND CONNECT ACTIVE LATERALS TO NEW SEWER MAIN. REMOVE EXISTING CLEANOUTS AND PROVIDE TWO-WAY CLEANOUTS WITH RISER, FRAME, CONCRETE COLLAR AND COVER.
  - LOWER LATERALS SHALL BE HDPE SDR-17.
  - RECONSTRUCT CITY MONUMENTS DISTURBED BY SEWER INSTALLATION. REFER TO STANDARD DETAIL PLAN NOS. 8090 & 8091 OF THE SPECIFICATIONS.
  - IN ACCORDANCE WITH SPECIAL CONDITION NO. 13 IN THE SPECIAL PROVISIONS, PRIOR TO EXCAVATION, CONTRACTOR SHALL POTHOLE AND VERIFY THE LOCATION AND DEPTH OF EXISTING STORM DRAINS, SANITARY SEWER MAINS, SEWER LATERALS, AND OTHER UTILITIES OR CONDUITS TO CONFIRM CLEARANCE TO THE WORK BEING PERFORMED. IF CLEARANCE IS LESS THAN 12 INCHES OR IF THERE IS AN EXISTING CONCRETE SADDLE AT THE CROSSING, NOTIFY ENGINEER IMMEDIATELY PRIOR TO CONTINUING WORK.
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  - CONSTRUCTION OF THIS PORTION OF THE WORK WILL TAKE PLACE IN A CONSTRAINED AREA. SEWER LINE IS IN CLOSE PROXIMITY TO AND/OR UNDER EXISTING RETAINING WALLS, FENCES, TREES, OVERHEAD LINES, LANDSCAPING, AND STRUCTURES. CONTRACTOR SHALL VERIFY ALL SITE CONSTRAINTS.
  - METHOD "A" REHABILITATION OF SEWER LATERALS IS ALLOWED BETWEEN STRUCTURE 17-412-C5 AND 17-412-C7. SEE SPECIFICATIONS AND DETAIL 8 ON SHEET 49 FOR REQUIREMENTS.
  - CONTRACTOR SHALL INVESTIGATE DOWNSTREAM END OF SEGMENT BETWEEN 17-412-C1 AND 17-412-C2 TO DETERMINE WHERE LINE TIES INTO DOWNSTREAM PIPE SEGMENT. MAIN DOES NOT CONNECT TO STRUCTURE 17-412-C2.

*Laurie M. Loaiza*  
 LAURIE M. LOAIZA  
 11/03/2022  
 DATE



**COASTLAND | BCCM**  
 11641 Blocker Dr, Ste 170, Auburn, CA 95603  
 530.888.9929 | coastlandcivil.com

PROJECT MANAGER: \_\_\_\_\_ DATE \_\_\_\_\_  
 SURVEY PARTY CHIEF: \_\_\_\_\_ DATE \_\_\_\_\_  
 WATERSHED REVIEW: \_\_\_\_\_ DATE \_\_\_\_\_

DEPICTION OF MONUMENTS: \_\_\_\_\_ DATE \_\_\_\_\_  
 SUBMITTED: \_\_\_\_\_ DATE \_\_\_\_\_  
 SUPERVISING CIVIL ENGINEER: \_\_\_\_\_  
 APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
 CITY ENGINEER: \_\_\_\_\_ EXP. \_\_\_\_\_

DESIGN: ERG  
 DRAWN: JM/ERG  
 CHECK: LML  
 AS BUILT: \_\_\_\_\_

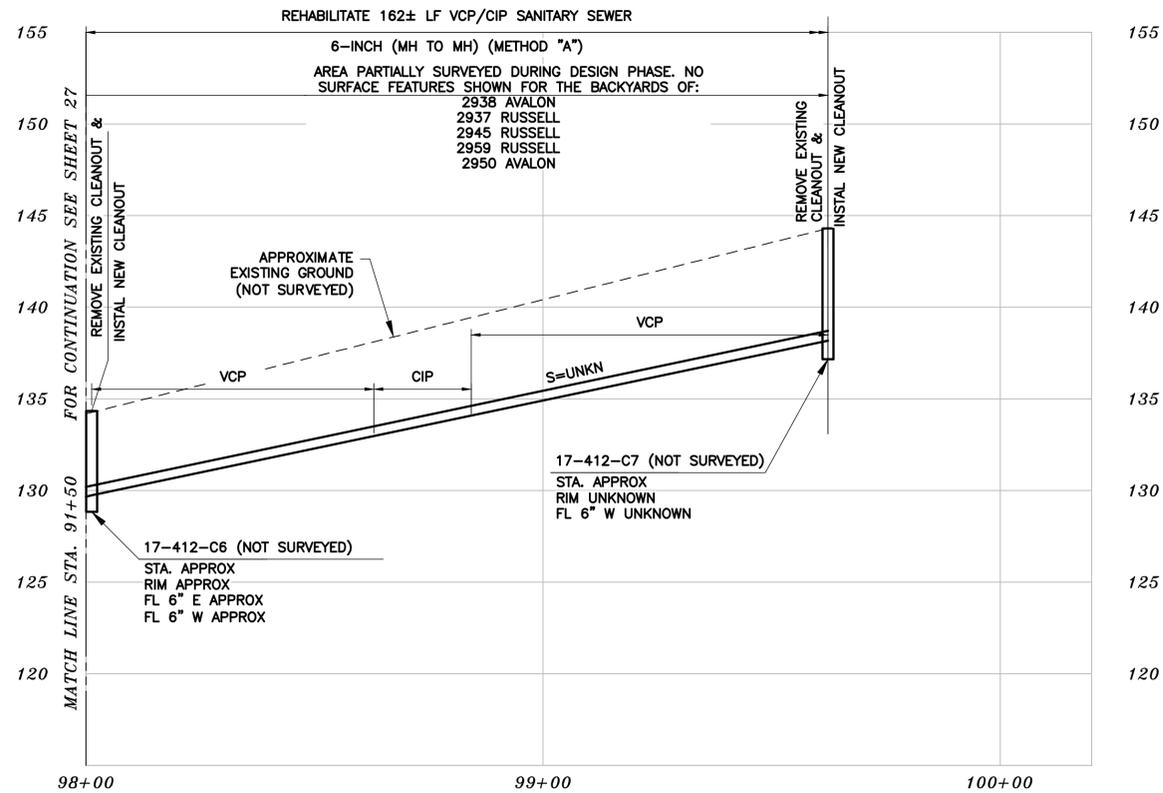
CITY OF BERKELEY  
 DEPARTMENT OF PUBLIC WORKS

SANITARY SEWER REHABILITATION  
 RUSSELL BACKLINE  
 PLAN AND PROFILE

PLAN 8240  
 FILE 502-704  
 SHEET 27 OF 49

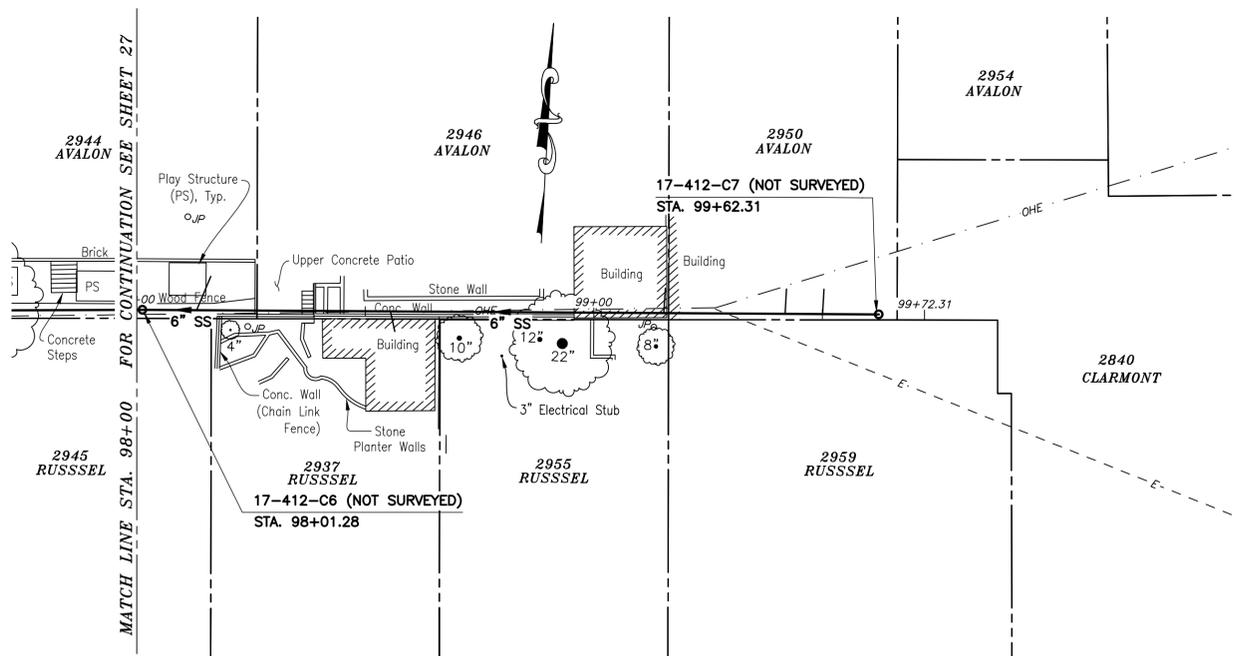
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### PROFILE

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### SANITARY SEWER LAYOUT - RUSSELL BACKLINE

STATION	Δ OR BEARING	DISTANCE	RADIUS	DESCRIPTION
98+00.00	N86°33'54.92"E	1'-3.36"	---	MATCH LINE
98+01.28	N86°33'54.92"E	175.32'	---	CO 17-412-C6
99+76.60	---	---	---	CO 17-412-C7

### PLAN

- NOTES:**
- FOR GENERAL NOTES SEE SHEET 4 OF THE PLANS.
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  - LOWER LATERALS SHALL BE HDPE SDR-17.
  - RECONSTRUCT CITY MONUMENTS DISTURBED BY SEWER INSTALLATION. REFER TO STANDARD DETAIL PLAN NOS. 8090 & 8091 OF THE SPECIFICATIONS.
  - IN ACCORDANCE WITH SPECIAL CONDITION NO. 13 IN THE SPECIAL PROVISIONS, PRIOR TO EXCAVATION, CONTRACTOR SHALL POTHOLE AND VERIFY THE LOCATION AND DEPTH OF EXISTING STORM DRAINS, SANITARY SEWER MAINS, SEWER LATERALS, AND OTHER UTILITIES OR CONDUITS TO CONFIRM CLEARANCE TO THE WORK BEING PERFORMED. IF CLEARANCE IS LESS THAN 12 INCHES OR IF THERE IS AN EXISTING CONCRETE SADDLE AT THE CROSSING, NOTIFY ENGINEER IMMEDIATELY PRIOR TO CONTINUING WORK.
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  - METHOD "A" REHABILITATION OF SEWER LATERALS IS ALLOWED BETWEEN STRUCTURE 17-412-C6 AND 17-412-C7. SEE SPECIFICATIONS AND DETAIL 8 ON SHEET 49 FOR REQUIREMENTS.

*Laurie M. Loaiza*  
 LAURIE M. LOAIZA  
 11/03/2022  
 DATE



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PROJECT MANAGER: _____ DATE _____	DEPICTION OF MONUMENTS: _____ DATE _____	SUBMITTED: _____ DATE _____	DESIGN: <u>ERG</u>	HORIZ. 1" = 20'
SURVEY PARTY CHIEF: _____	WATERSHED REVIEW: _____ DATE _____	SUPERVISING CIVIL ENGINEER: _____	DRAWN: <u>JM/ERG</u>	VERT. 1" = 5'
0 1 2 3 FOR REDUCED PLANS - ORIGINAL SCALE IS IN INCHES	APPROVED: _____ DATE _____	CITY ENGINEER: _____	CHECK: <u>LML</u>	BOOK: _____
			AS BUILT: _____	DATE: 11/03/2022

**CITY OF BERKELEY**  
 DEPARTMENT OF PUBLIC WORKS

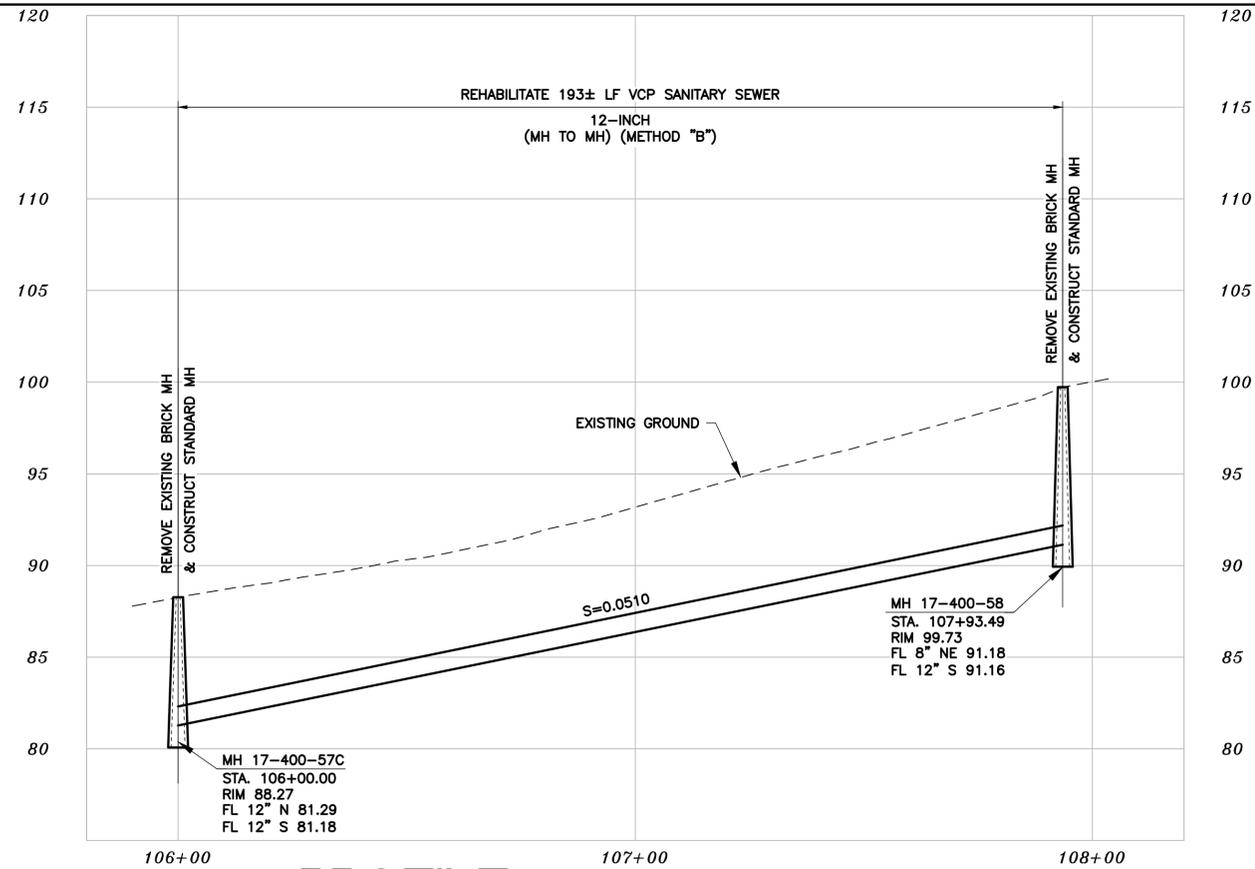
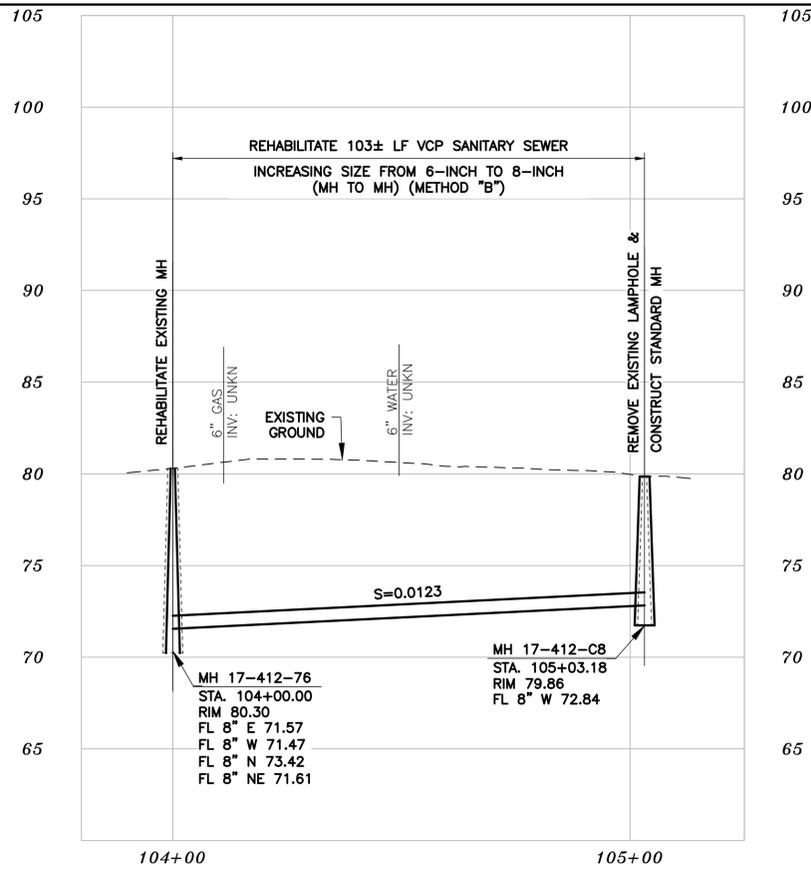
**SANITARY SEWER REHABILITATION  
 RUSSELL BACKLINE**

PLAN AND PROFILE

PLAN 8240  
 FILE 502-704

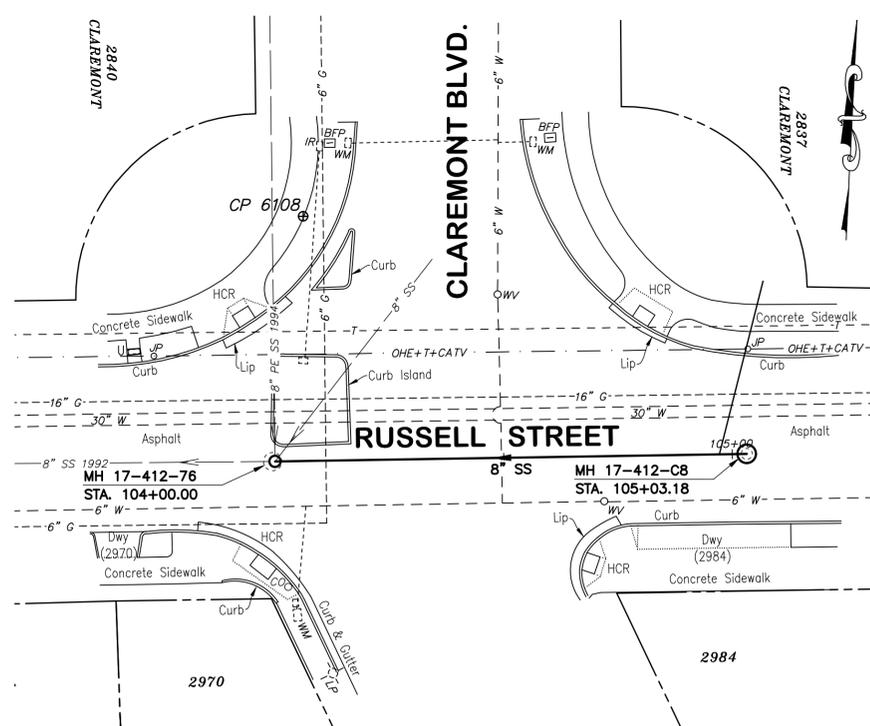
SHEET 28 OF 49





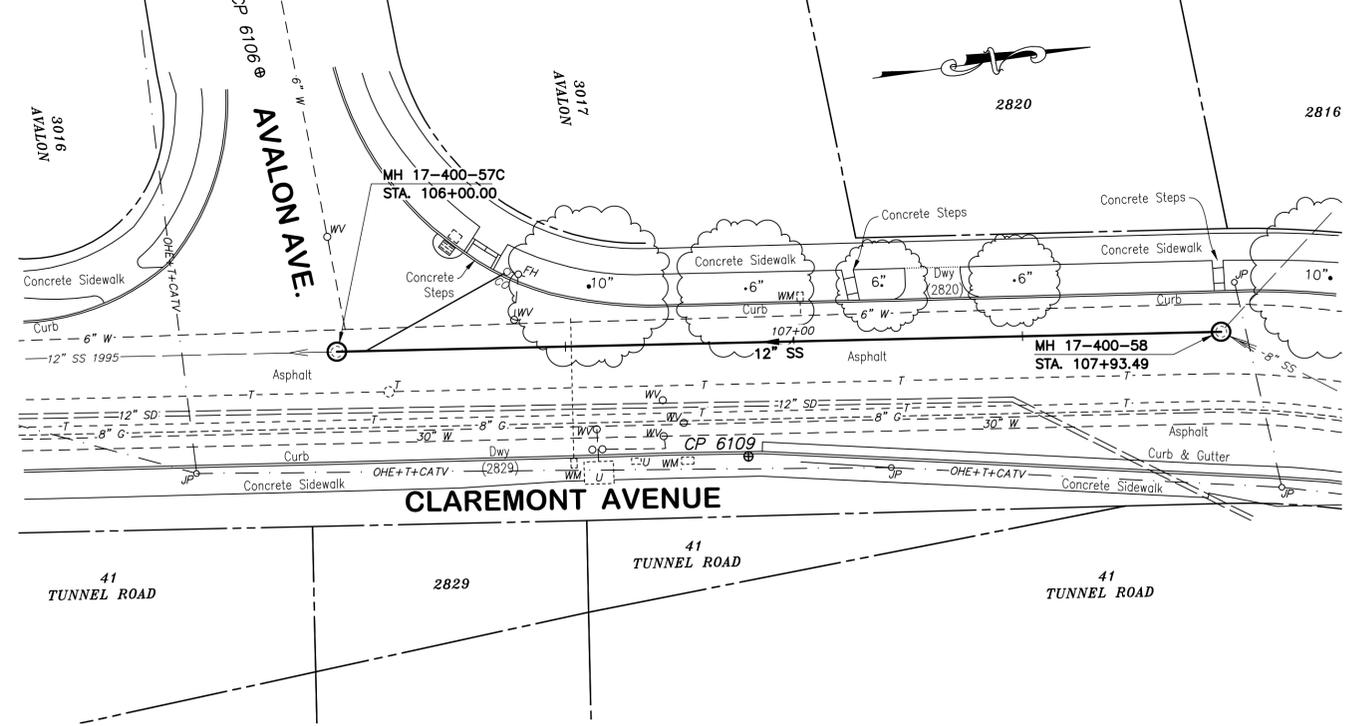
**PROFILE**

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**SANITARY SEWER LAYOUT - RUSSELL STREET**

STATION	Δ OR BEARING	DISTANCE	RADIUS	DESCRIPTION
104+00.00	N86°15'36.35"E	103.18	---	MH 17-412-76
105+03.18	---	---	---	MH 17-412-C3



**SANITARY SEWER LAYOUT - CLAREMONT AVE**

STATION	Δ OR BEARING	DISTANCE	RADIUS	DESCRIPTION
106+00.00	S06°48'37.30"E	193.49'	---	MH 17-400-57C
107+93.49	---	---	---	MH 17-400-58

**PLAN**

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*Laurie M. Loaiza*  
 LAURIE M. LOAIZA  
 11/03/2022  
 DATE



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PROJECT MANAGER: _____ DATE _____	DEPICTION OF MONUMENTS: _____ DATE _____	SUBMITTED: _____ DATE _____	DESIGN: <u>ERG</u>	HORIZ. 1" = 20'
SURVEY PARTY CHIEF: _____ DATE _____	WATERSHED REVIEW: _____ DATE _____	SUPERVISING CIVIL ENGINEER: _____ DATE _____	DRAWN: <u>JM/ERG</u>	VERT. 1" = 5'
		APPROVED: _____ DATE _____	CHECK: <u>LML</u>	BOOK _____
		CITY ENGINEER: _____ DATE _____	AS BUILT: _____	DATE 11/03/2022

**CITY OF BERKELEY**  
 DEPARTMENT OF PUBLIC WORKS

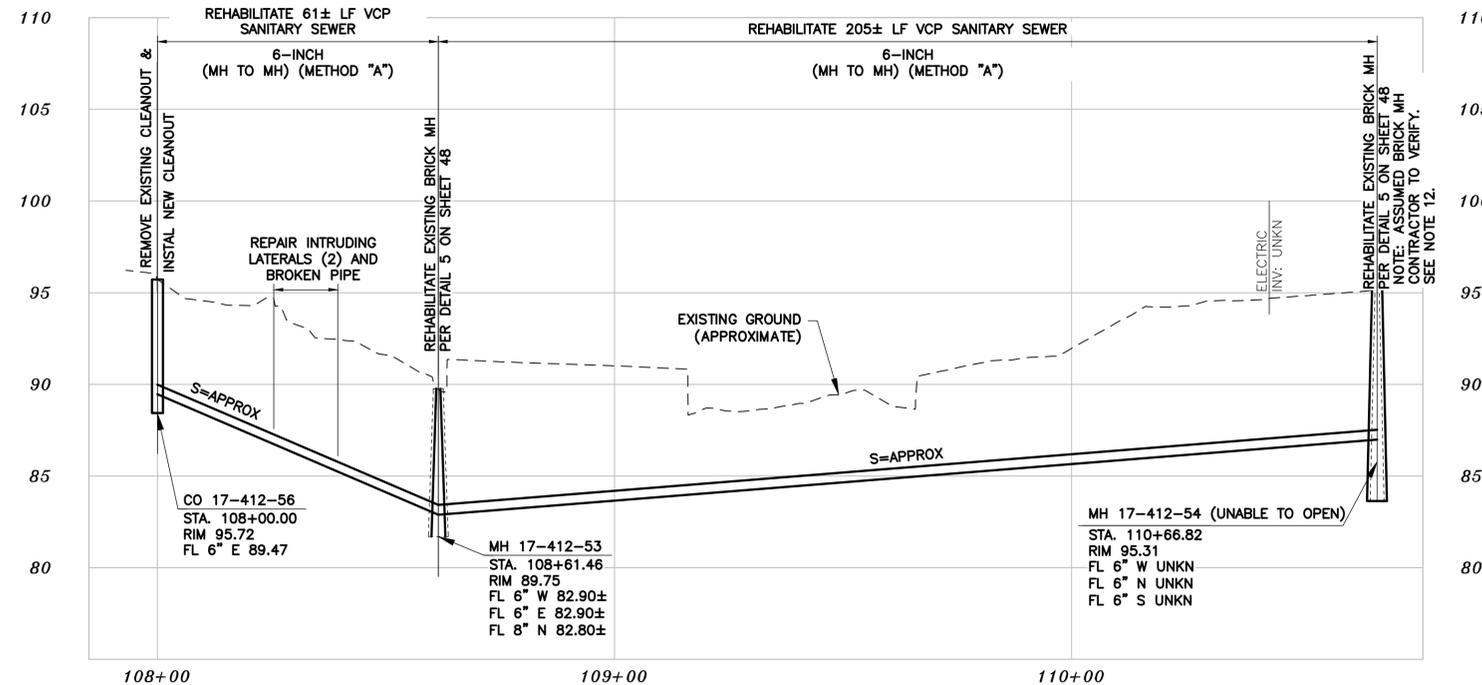
**SANITARY SEWER REHABILITATION**  
**RUSSELL ST, CLAREMONT**

PLAN AND PROFILE

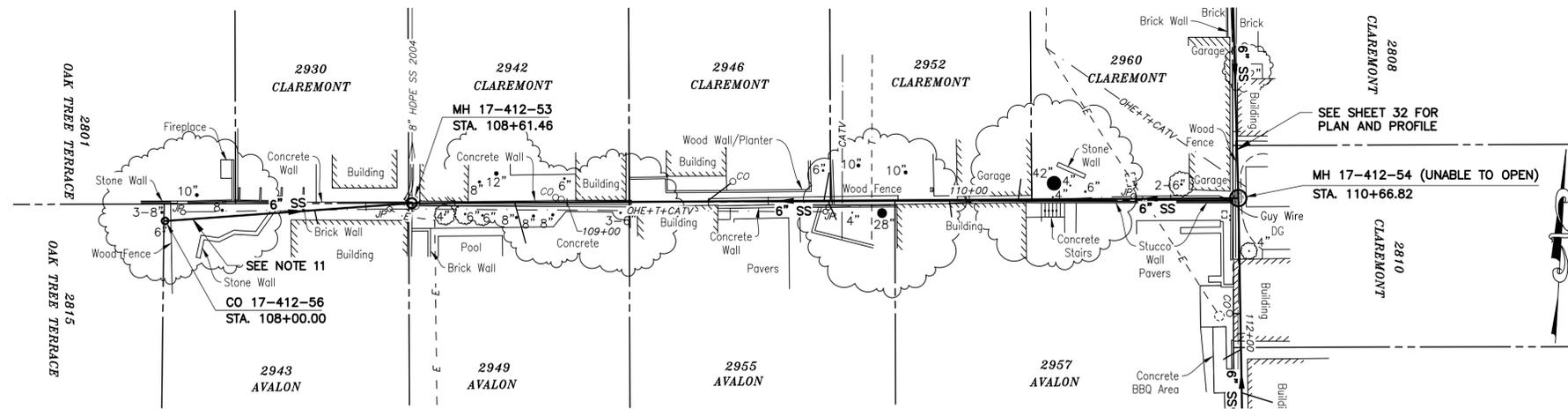
PLAN 8240  
 FILE 502-704  
 SHEET 30 OF 49

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### PROFILE



### SANITARY SEWER LAYOUT - AVALON BACKLINE

STATION	Δ OR BEARING	DISTANCE	RADIUS	DESCRIPTION
108+00.00	N82°43'30.99"E	61.46'	---	CO 17-412-56
108+61.46	N86°27'23.66"E	205.36'	---	MH 17-412-53
110+66.82	---	---	---	MH 17-412-54

### PLAN

- NOTES:**
- FOR GENERAL NOTES SEE SHEET 4 OF THE PLANS.
  - LOCATE, RECONSTRUCT, EXTEND AND CONNECT ACTIVE LATERALS TO NEW SEWER MAIN. REMOVE EXISTING CLEANOUTS AND PROVIDE TWO-WAY CLEANOUTS WITH RISER, FRAME, CONCRETE COLLAR AND COVER.
  - LOWER LATERALS SHALL BE HDPE SDR-17.
  - RECONSTRUCT CITY MONUMENTS DISTURBED BY SEWER INSTALLATION. REFER TO STANDARD DETAIL PLAN NOS. 8090 & 8091 OF THE SPECIFICATIONS.
  - IN ACCORDANCE WITH SPECIAL CONDITION NO. 13 IN THE SPECIAL PROVISIONS, PRIOR TO EXCAVATION, CONTRACTOR SHALL POTHOLE AND VERIFY THE LOCATION AND DEPTH OF EXISTING STORM DRAINS, SANITARY SEWER MAINS, SEWER LATERALS, AND OTHER UTILITIES OR CONDUITS TO CONFIRM CLEARANCE TO THE WORK BEING PERFORMED. IF CLEARANCE IS LESS THAN 12 INCHES OR IF THERE IS AN EXISTING CONCRETE SADDLE AT THE CROSSING, NOTIFY ENGINEER IMMEDIATELY PRIOR TO CONTINUING WORK.
  - ALL EXISTING TREES SHALL BE PROTECTED AGAINST INJURY FROM CONSTRUCTION OPERATIONS UNLESS OTHERWISE NOTED.
  - LATERALS ARE SHOWN BASED ON CCTV AND/OR SURVEYED CLEANOUT LOCATIONS. IN LOCATIONS WHERE LATERALS COULD NOT BE CONFIRMED VIA CCTV, THE LATERALS ARE SHOWN WITH A DASHED LINE. IT IS UNKNOWN WHY SOME LOTS HAVE MULTIPLE SERVICES AND PROBABLE THAT SOME LATERALS TO SUCH SUCH LOTS ARE IN FACT ABANDONED/UNUSED. HOWEVER, ALL POSSIBLE LATERALS ARE SHOWN FOR COMPLETENESS SINCE NOT ENOUGH INFORMATION WAS AVAILABLE TO DETERMINE WHICH LATERALS ARE IN USE AND WHICH LATERALS ARE NOT. CONTRACTOR SHALL IDENTIFY WHICH LATERALS ARE ACTIVE PRIOR TO BEGINNING REHABILITATION OF SEWER LINE AND RECONNECT ALL ACTIVE LATERALS TO NEW MAIN FOLLOWING REHABILITATION.
  - CONTRACTOR SHALL WORK WITH PG&E TO LOCATE ALL PG&E FACILITIES AT PG&E'S OPTION. PG&E MAY REQUIRE A PG&E SPECIAL INSPECTOR OBSERVE ANY WORK WITHIN 3- FEET OF AN EXISTING PG&E FACILITY. CONTRACTOR SHALL SCHEDULE WORK ACCORDINGLY.
  - CONSTRUCTION OF THIS PORTION OF THE WORK WILL TAKE PLACE IN A CONSTRAINED AREA. SEWER LINE IS IN CLOSE PROXIMITY TO AND/OR UNDER EXISTING RETAINING WALLS, FENCES, TREES, OVERHEAD LINES, LANDSCAPING, AND STRUCTURES. CONTRACTOR SHALL VERIFY ALL SITE CONSTRAINTS.
  - METHOD "A" REHABILITATION OF SEWER LATERALS IS ALLOWED BETWEEN STRUCTURE 17-412-53 AND 17-412-54. SEE SPECIFICATIONS AND DETAIL 8 ON SHEET 49 FOR REQUIREMENTS.
  - CONTRACTOR SHALL HAND DIG AS NECESSARY IN VICINITY OF TREE, STONE PLANTER WALL, AND BUILDING TO INSTALL NEW CLEANOUT AND REPLACE EXISTING PIPE.
  - FENCING MODIFICATIONS AND MH FRAME ADJUSTMENT AS DIRECTED BY ENGINEER SHALL BE INCLUDED IN BID ITEM FOR MH 14-412-54 REHABILITATION.

*Laurie M. Loaiza*  
 LAURIE M. LOAIZA  
 No. C65951  
 REGISTERED PROFESSIONAL ENGINEER  
 CIVIL  
 STATE OF CALIFORNIA  
 11/03/2022  
 DATE

**COASTLAND | BCCM**  
 11641 Blocker Dr, Ste 170, Auburn, CA 95603  
 530.888.9929 | coastlandcivil.com

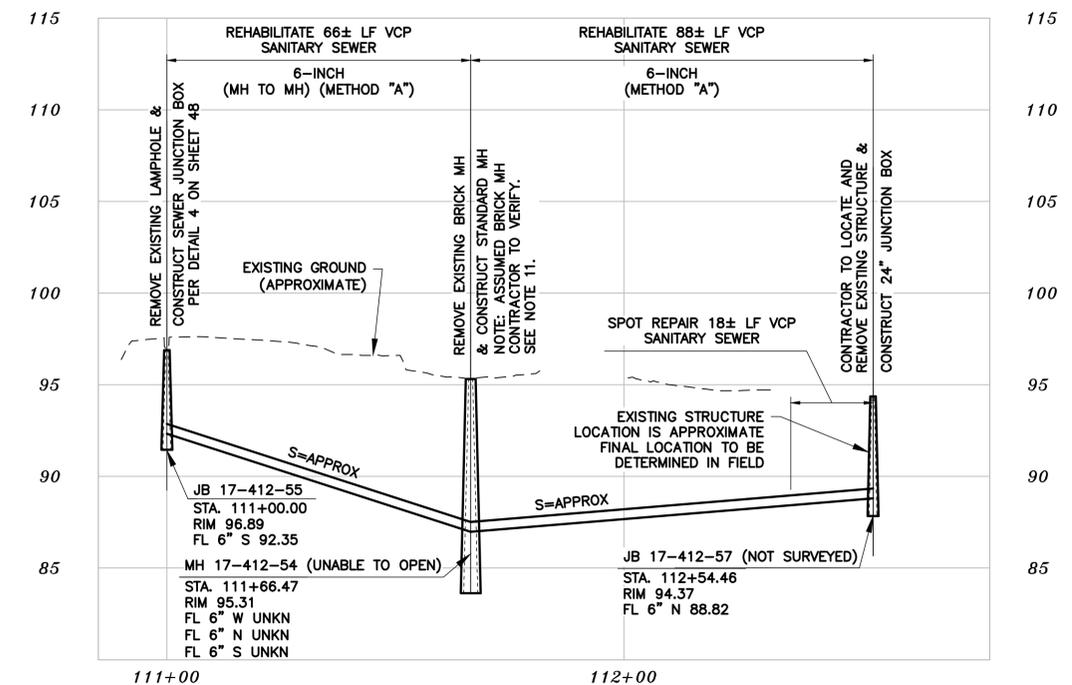
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SURVEY PARTY CHIEF: _____ DATE _____	WATERSHED REVIEW: _____ DATE _____	SUPERVISING CIVIL ENGINEER: _____ DATE _____	DRAWN: <u>JM/ERG</u>	VERT. 1" = 5'
FOR REDUCED PLANS - ORIGINAL SCALE IS IN INCHES	CITY ENGINEER: _____ DATE _____	APPROVED: _____ DATE _____	CHECK: <u>LML</u>	BOOK: _____
			AS BUILT: _____	DATE: 11/03/2022

**CITY OF BERKELEY**  
 DEPARTMENT OF PUBLIC WORKS  
**SANITARY SEWER REHABILITATION**  
**AVALON BACKLINE**  
 PLAN AND PROFILE

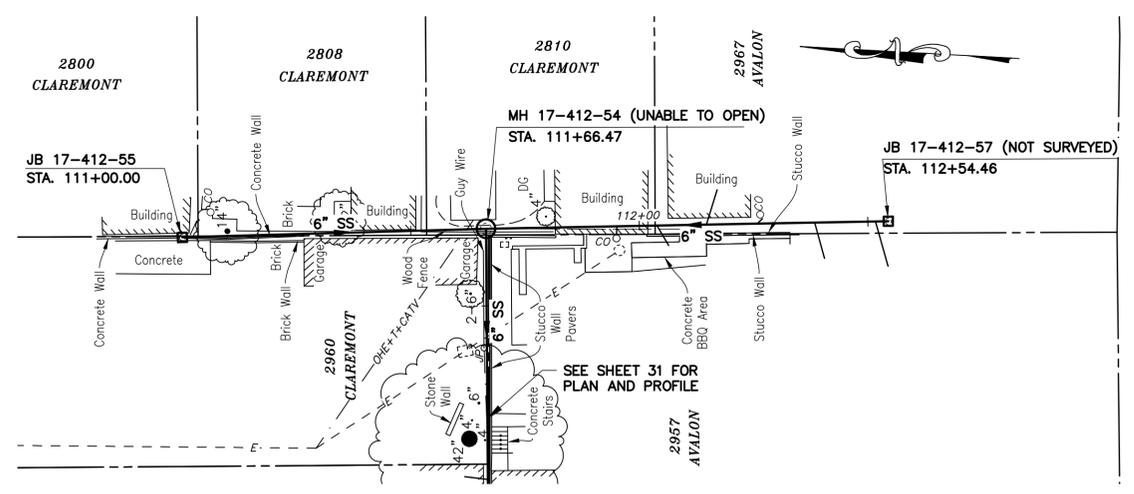
PLAN 8240  
 FILE 502-704  
 SHEET 31 OF 49

T:\Civil 3D Projects\1234831 HEARST SEWER REHAB\dwg\1234831-PP3-4--dwg [31: AVALON BACKLINE] 11-04-22 10:55:02 AM marcelle

THE TOPOGRAPHIC SURVEY FOR THIS PORTION OF THE PROJECT IS NOT ON THE CITY OF BERKELEY DATUM. AT CITY REQUEST, SURVEYOR USED AN ASSUMED LOCAL CONTROL AT EACH SITE. GROUND ELEVATIONS, MANHOLE RIM AND INVERT ELEVATIONS, ETC. SHALL NOT BE USED FOR PURPOSES OUTSIDE OF THIS PROJECT.



### PROFILE



### SANITARY SEWER LAYOUT - AVALON BACKLINE

STATION	Δ OR BEARING	DISTANCE	RADIUS	DESCRIPTION
111+00.00	S04°44'45.25"E	66.47'	---	JB 17-412-55
111+66.47	S04°12'23.33"E	87.99'	---	MH 17-412-54
112+54.46	---	---	---	JB 17-412-57

### PLAN

- NOTES:**
- FOR GENERAL NOTES SEE SHEET 4 OF THE PLANS.
  - LOCATE, RECONSTRUCT, EXTEND AND CONNECT ACTIVE LATERALS TO NEW SEWER MAIN. REMOVE EXISTING CLEANOUTS AND PROVIDE TWO-WAY CLEANOUTS WITH RISER, FRAME, CONCRETE COLLAR AND COVER.
  - LOWER LATERALS SHALL BE HDPE SDR-17.
  - RECONSTRUCT CITY MONUMENTS DISTURBED BY SEWER INSTALLATION. REFER TO STANDARD DETAIL PLAN NOS. 8090 & 8091 OF THE SPECIFICATIONS.
  - IN ACCORDANCE WITH SPECIAL CONDITION NO. 13 IN THE SPECIAL PROVISIONS, PRIOR TO EXCAVATION, CONTRACTOR SHALL POTHOLE AND VERIFY THE LOCATION AND DEPTH OF EXISTING STORM DRAINS, SANITARY SEWER MAINS, SEWER LATERALS, AND OTHER UTILITIES OR CONDUITS TO CONFIRM CLEARANCE TO THE WORK BEING PERFORMED. IF CLEARANCE IS LESS THAN 12 INCHES OR IF THERE IS AN EXISTING CONCRETE SADDLE AT THE CROSSING, NOTIFY ENGINEER IMMEDIATELY PRIOR TO CONTINUING WORK.
  - ALL EXISTING TREES SHALL BE PROTECTED AGAINST INJURY FROM CONSTRUCTION OPERATIONS UNLESS OTHERWISE NOTED.
  - LATERALS ARE SHOWN BASED ON CCTV AND/OR SURVEYED CLEANOUT LOCATIONS. IN LOCATIONS WHERE LATERALS COULD NOT BE CONFIRMED VIA CCTV, THE LATERALS ARE SHOWN WITH A DASHED LINE. IT IS UNKNOWN WHY SOME LOTS HAVE MULTIPLE SERVICES AND PROBABLE THAT SOME LATERALS TO SUCH SUCH LOTS ARE IN FACT ABANDONED/UNUSED. HOWEVER, ALL POSSIBLE LATERALS ARE SHOWN FOR COMPLETENESS SINCE NOT ENOUGH INFORMATION WAS AVAILABLE TO DETERMINE WHICH LATERALS ARE IN USE AND WHICH LATERALS ARE NOT. CONTRACTOR SHALL IDENTIFY WHICH LATERALS ARE ACTIVE PRIOR TO BEGINNING REHABILITATION OF SEWER LINE AND RECONNECT ALL ACTIVE LATERALS TO NEW MAIN FOLLOWING REHABILITATION.
  - CONTRACTOR SHALL WORK WITH PG&E TO LOCATE ALL PG&E FACILITIES AT PG&E'S OPTION, PG&E MAY REQUIRE A PG&E SPECIAL INSPECTOR OBSERVE ANY WORK WITHIN 3-FEET OF AN EXISTING PG&E FACILITY. CONTRACTOR SHALL SCHEDULE WORK ACCORDINGLY.
  - CONSTRUCTION OF THIS PORTION OF THE WORK WILL TAKE PLACE IN A CONSTRAINED AREA. SEWER LINE IS IN CLOSE PROXIMITY TO AND/OR UNDER EXISTING RETAINING WALLS, FENCES, TREES, OVERHEAD LINES, LANDSCAPING, AND STRUCTURES. CONTRACTOR SHALL VERIFY ALL SITE CONSTRAINTS.
  - METHOD "A" REHABILITATION OF SEWER LATERALS IS ALLOWED BETWEEN STRUCTURE 17-412-55 AND STATION 112+36. SEE SPECIFICATIONS AND DETAIL 8 ON SHEET 49 FOR REQUIREMENTS.
  - FENCING MODIFICATIONS AND MH FRAME ADJUSTMENT AS DIRECTED BY ENGINEER SHALL BE INCLUDED IN BID ITEM FOR MH 17-412-54 REHABILITATION.

*Laurie M. Loaiza*  
 LAURIE M. LOAIZA  
 11/03/2022  
 DATE



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 11641 Blocker Dr, Ste 170, Auburn, CA 95603  
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PROJECT MANAGER: _____ DATE _____	DEPICTION OF MONUMENTS: _____ DATE _____	SUBMITTED: _____ DATE _____	DESIGN: <u>ERG</u>	HORIZ. 1" = 20'
SURVEY PARTY CHIEF: _____	SURVEY PARTY CHIEF: _____	SUPERVISING CIVIL ENGINEER: _____	DRAWN: <u>JM/ERG</u>	VERT. 1" = 5'
WATERSHED REVIEW: _____ DATE _____	APPROVED: _____ DATE _____	CITY ENGINEER: _____	CHECK: <u>LML</u>	BOOK: _____
FOR REDUCED PLANS - ORIGINAL SCALE IS IN INCHES			AS BUILT: _____	DATE: 11/03/2022

**CITY OF BERKELEY**  
 DEPARTMENT OF PUBLIC WORKS

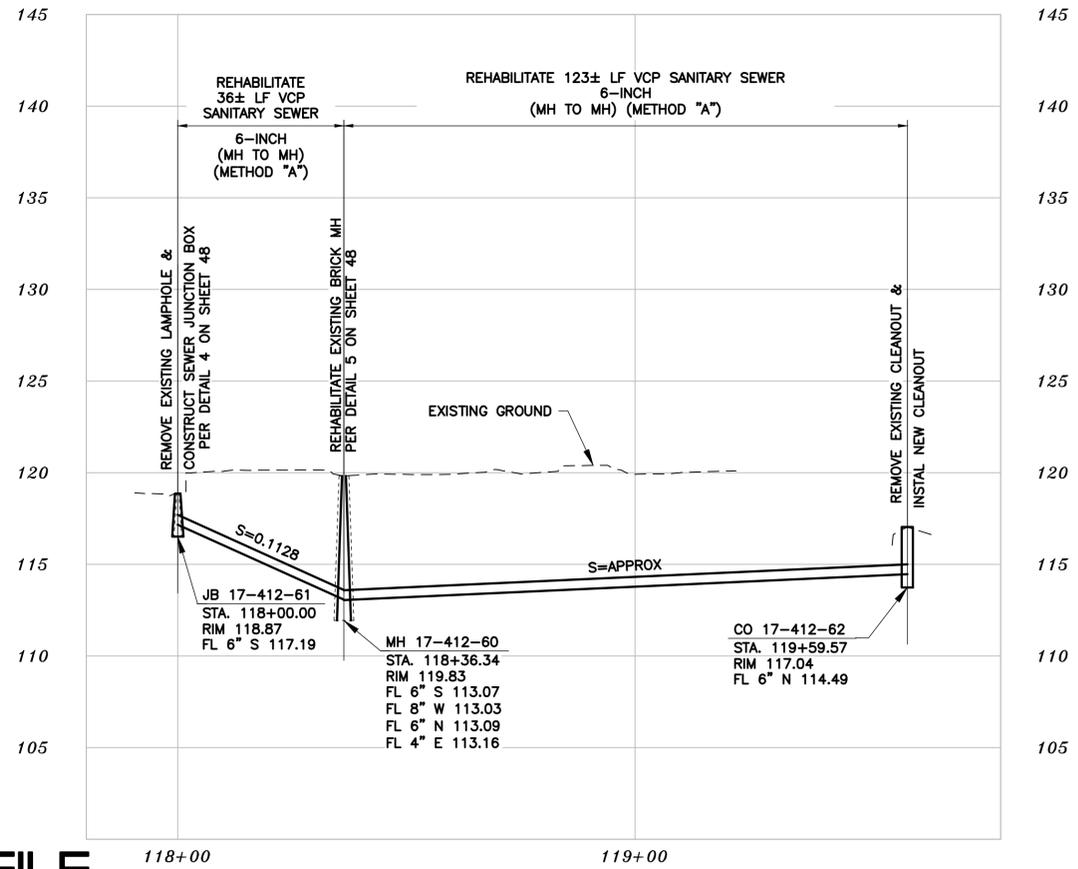
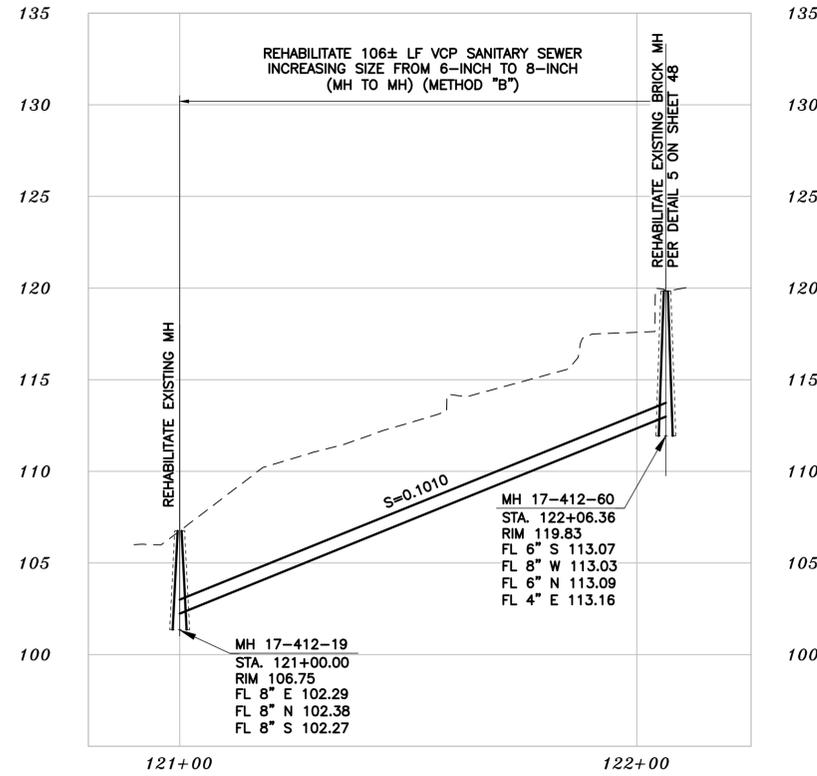
**SANITARY SEWER REHABILITATION**  
**AVALON BACKLINE**

PLAN AND PROFILE

PLAN 8240  
 FILE 502-704  
 SHEET 32 OF 49

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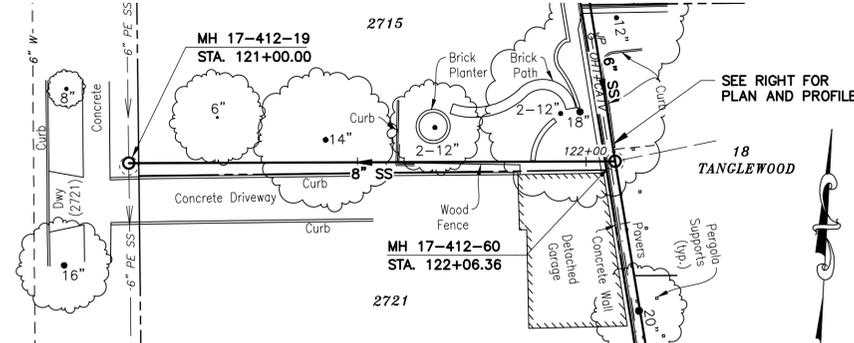


THE TOPOGRAPHIC SURVEY FOR THIS PORTION OF THE PROJECT IS NOT ON THE CITY OF BERKELEY DATUM. AT CITY REQUEST, SURVEYOR USED AN ASSUMED LOCAL CONTROL AT EACH SITE. GROUND ELEVATIONS, MANHOLE RIM AND INVERT ELEVATIONS, ETC. SHALL NOT BE USED FOR PURPOSES OUTSIDE OF THIS PROJECT.

### PROFILE

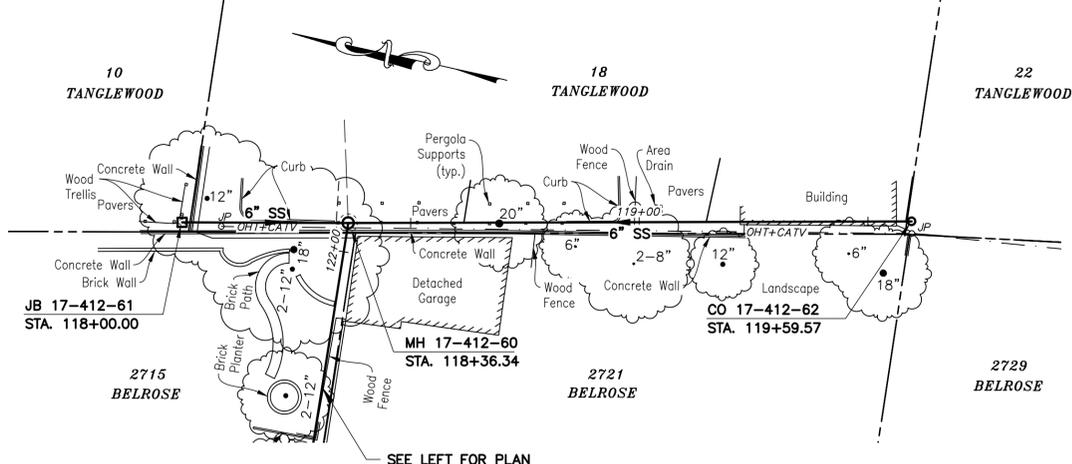
- NOTES:**
- FOR GENERAL NOTES SEE SHEET 4 OF THE PLANS.
  - LOCATE, RECONSTRUCT, EXTEND AND CONNECT ACTIVE LATERALS TO NEW SEWER MAIN. REMOVE EXISTING CLEANOUTS AND PROVIDE TWO-WAY CLEANOUTS WITH RISER, FRAME, CONCRETE COLLAR AND COVER.
  - LOWER LATERALS SHALL BE HDPE SDR-17.
  - RECONSTRUCT CITY MONUMENTS DISTURBED BY SEWER INSTALLATION. REFER TO STANDARD DETAIL PLAN NOS. 8090 & 8091 OF THE SPECIFICATIONS.
  - IN ACCORDANCE WITH SPECIAL CONDITION NO. 13 IN THE SPECIAL PROVISIONS, PRIOR TO EXCAVATION, CONTRACTOR SHALL POTHOLE AND VERIFY THE LOCATION AND DEPTH OF EXISTING STORM DRAINS, SANITARY SEWER MAINS, SEWER LATERALS, AND OTHER UTILITIES OR CONDUITS TO CONFIRM CLEARANCE TO THE WORK BEING PERFORMED. IF CLEARANCE IS LESS THAN 12 INCHES OR IF THERE IS AN EXISTING CONCRETE SADDLE AT THE CROSSING, NOTIFY ENGINEER IMMEDIATELY PRIOR TO CONTINUING WORK.
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  - METHOD "A" REHABILITATION OF SEWER LATERALS IS ALLOWED BETWEEN STRUCTURE 17-412-61 AND 17-412-62. SEE SPECIFICATIONS AND DETAIL 8 ON SHEET 49 FOR REQUIREMENTS.

### BELROSE AVENUE



### SANITARY SEWER LAYOUT - BELROSE BACKLINE

STATION	Δ OR BEARING	DISTANCE	RADIUS	DESCRIPTION
121+00.00	S86°46'40.97"E	106.36'	---	MH 17-412-19
122+06.36	---	---	---	MH 17-412-60



### SANITARY SEWER LAYOUT - BELROSE BACKLINE

STATION	Δ OR BEARING	DISTANCE	RADIUS	DESCRIPTION
118+00.00	S12°04'17.37"E	36.34'	---	JB 17-412-61
118+36.34	S12°27'36.54"E	123.23'	---	MH 17-412-60
119+59.57	---	---	---	CO 17-412-62

### PLAN

PROJECT MANAGER: _____ DATE _____	DEPICTION OF MONUMENTS: _____ DATE _____	SUBMITTED: _____ DATE _____	DESIGN: <u>ERG</u>	HORIZ. 1" = 20'
SURVEY PARTY CHIEF: _____ DATE _____	WATERSHED REVIEW: _____ DATE _____	SUPERVISING CIVIL ENGINEER: _____ DATE _____	DRAWN: <u>JM/ERG</u>	VERT. 1" = 5'
APPROVED: _____ DATE _____	CITY ENGINEER: _____ DATE _____	APPROVED: _____ DATE _____	CHECK: <u>LML</u>	BOOK: _____
FOR REDUCED PLANS - ORIGINAL SCALE IS IN INCHES			AS BUILT: _____	DATE: 11/03/2022

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 530.888.9929 | coastlandcivil.com

*Laurie M. Loaiza*  
 LAURIE M. LOAIZA  
 11/03/2022  
 DATE



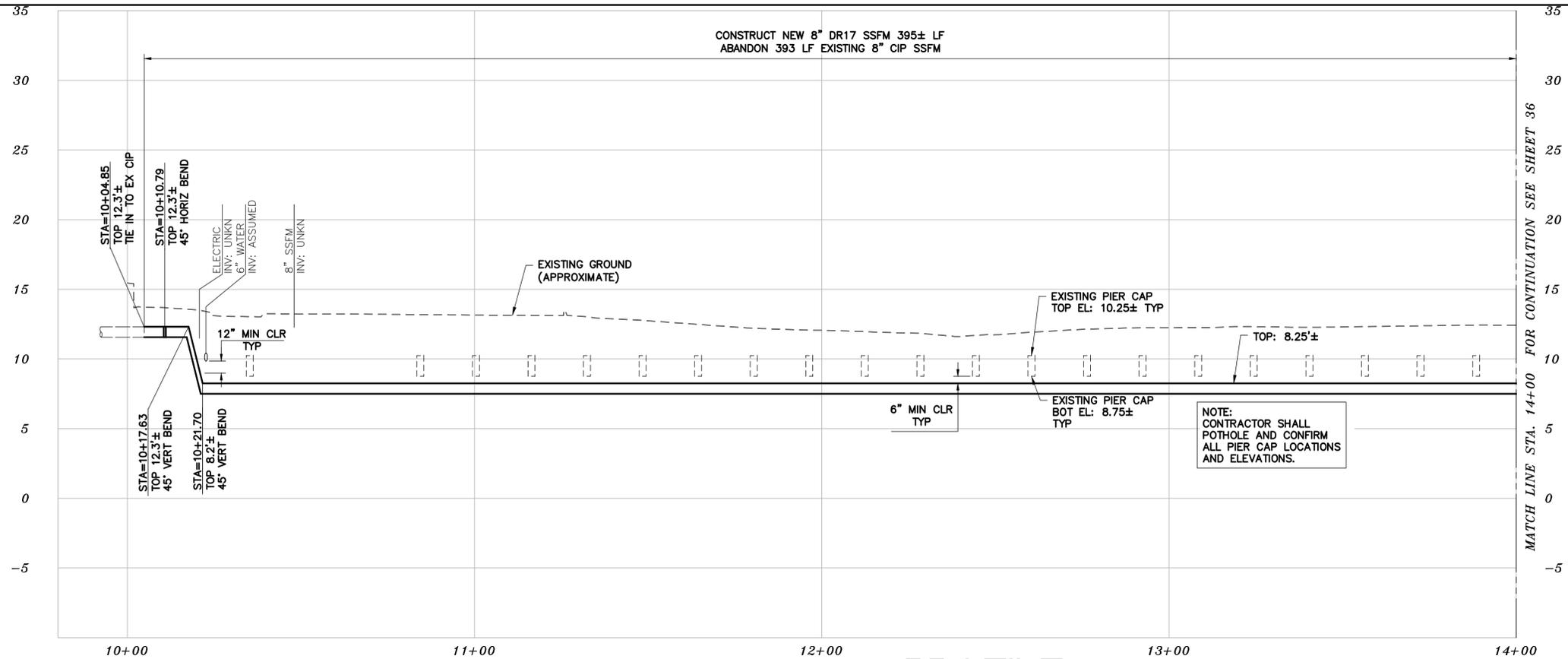
**CITY OF BERKELEY**  
 DEPARTMENT OF PUBLIC WORKS  
**SANITARY SEWER REHABILITATION**  
**BELROSE BACKLINE**  
 PLAN AND PROFILE

PLAN 8240  
 FILE 502-704  
 SHEET 34 OF 49

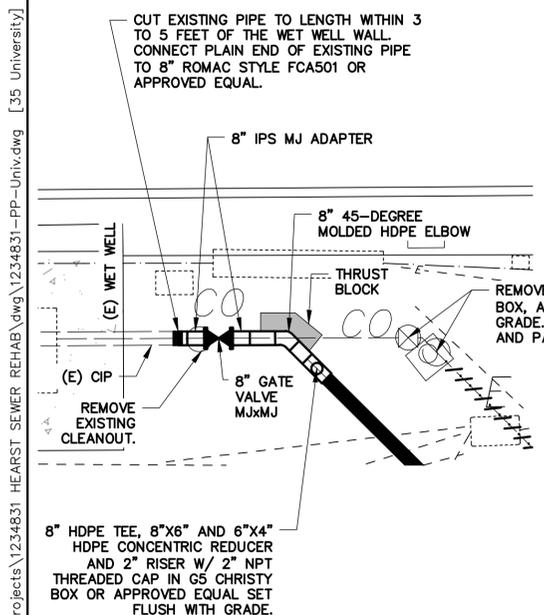
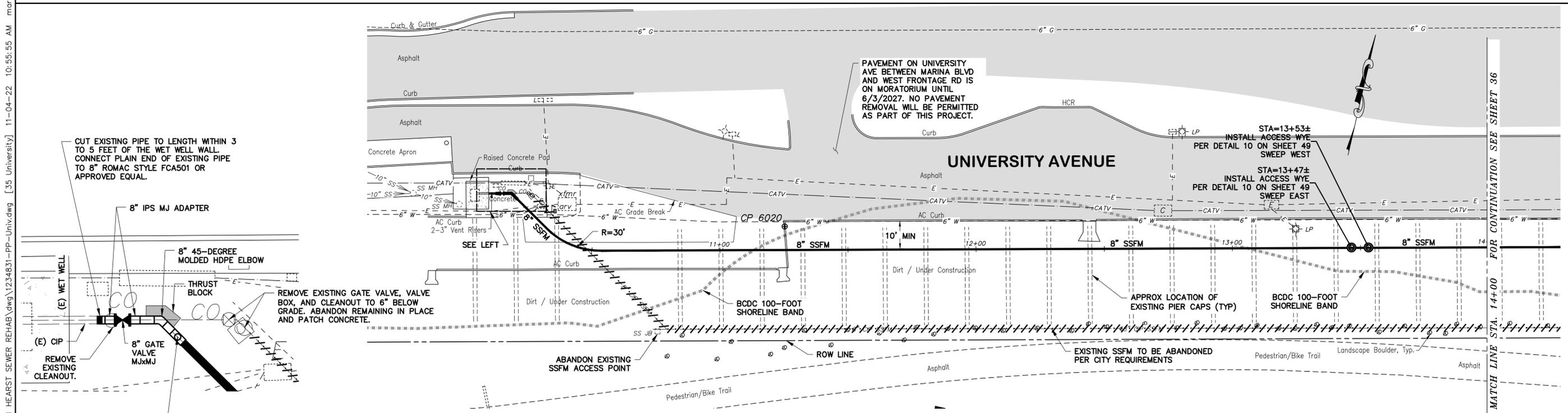
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**NOTES:**

- FOR GENERAL NOTES SEE SHEET 4 OF THE PLANS.
- RECONSTRUCT CITY MONUMENTS DISTURBED BY SEWER INSTALLATION. REFER TO STANDARD DETAIL PLAN NOS. 8090 & 8091 OF THE SPECIFICATIONS.
- IN ACCORDANCE WITH SPECIAL CONDITION NO. 13 IN THE SPECIAL PROVISIONS, PRIOR TO EXCAVATION, CONTRACTOR SHALL POTHOLE AND VERIFY THE LOCATION AND DEPTH OF EXISTING STORM DRAINS, SANITARY SEWER MAINS, SEWER LATERALS, AND OTHER UTILITIES OR CONDUITS TO CONFIRM CLEARANCE TO THE WORK BEING PERFORMED. IF CLEARANCE IS LESS THAN 12 INCHES OR IF THERE IS AN EXISTING CONCRETE SADDLE AT THE CROSSING, NOTIFY ENGINEER IMMEDIATELY PRIOR TO CONTINUING WORK.
- ALL EXISTING TREES SHALL BE PROTECTED AGAINST INJURY FROM CONSTRUCTION OPERATIONS UNLESS OTHERWISE NOTED.
- SEE SHEET 38 FOR SURVEY CONTROL AND ALIGNMENT TABLE.



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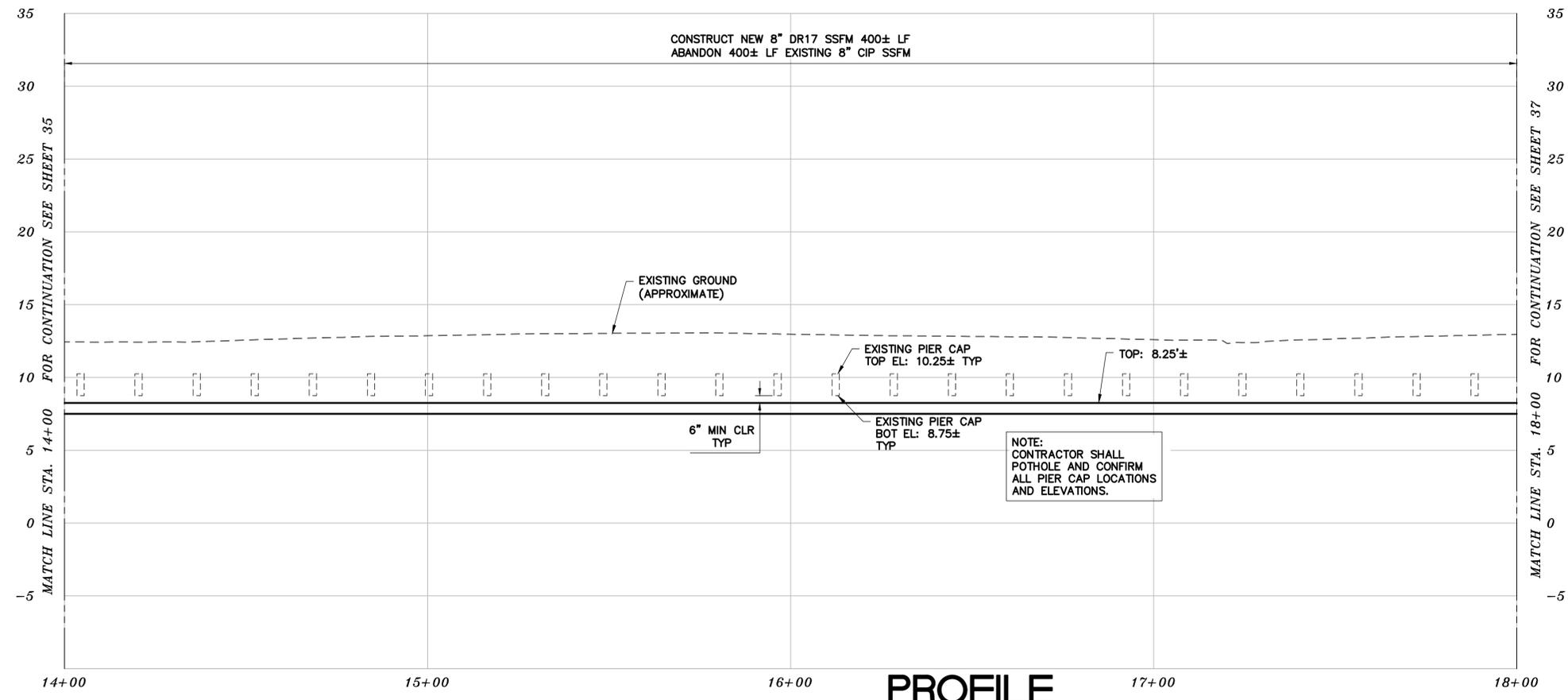
LAURIE M. LOAIZA  
 11/03/2022  
 DATE

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 530.888.9929 | coastlandcivil.com

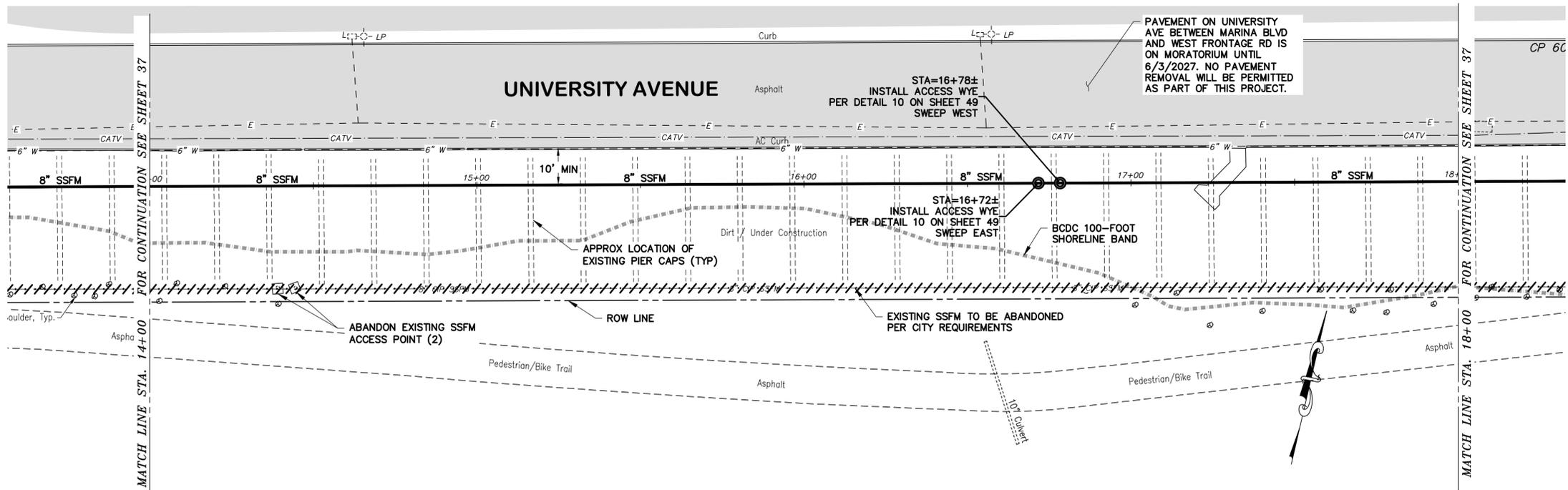
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SURVEY PARTY CHIEF: _____ DATE _____	WATERSHED REVIEW: _____ DATE _____	SUPERVISING CIVIL ENGINEER: _____ DATE _____	DRAWN: <u>JM/ERG</u>	VERT. 1" = 5'
FOR REDUCED PLANS - ORIGINAL SCALE IS IN INCHES	CITY ENGINEER: _____ DATE _____	APPROVED: _____ DATE _____	CHECK: <u>LML</u>	BOOK: _____
			AS BUILT: _____	DATE: 11/03/2022

**CITY OF BERKELEY**  
 DEPARTMENT OF PUBLIC WORKS  
**SANITARY SEWER REHABILITATION**  
**UNIVERSITY AVENUE**  
 STA. 10+00 TO STA. 14+00  
 PLAN AND PROFILE

PLAN 8240  
 FILE 502-704  
 SHEET 35 OF 49



**PROFILE**



**PLAN**

- NOTES:**
- FOR GENERAL NOTES SEE SHEET 4 OF THE PLANS.
  - RECONSTRUCT CITY MONUMENTS DISTURBED BY SEWER INSTALLATION. REFER TO STANDARD DETAIL PLAN NOS. 8090 & 8091 OF THE SPECIFICATIONS.
  - IN ACCORDANCE WITH SPECIAL CONDITION NO. 13 IN THE SPECIAL PROVISIONS, PRIOR TO EXCAVATION, CONTRACTOR SHALL POTHOLE AND VERIFY THE LOCATION AND DEPTH OF EXISTING STORM DRAINS, SANITARY SEWER MAINS, SEWER LATERALS, AND OTHER UTILITIES OR CONDUITS TO CONFIRM CLEARANCE TO THE WORK BEING PERFORMED. IF CLEARANCE IS LESS THAN 12 INCHES OR IF THERE IS AN EXISTING CONCRETE SADDLE AT THE CROSSING, NOTIFY ENGINEER IMMEDIATELY PRIOR TO CONTINUING WORK.
  - ALL EXISTING TREES SHALL BE PROTECTED AGAINST INJURY FROM CONSTRUCTION OPERATIONS UNLESS OTHERWISE NOTED.
  - SEE SHEET 38 FOR SURVEY CONTROL AND ALIGNMENT TABLE.

*Laurie M. Loaiza*  
 LAURIE M. LOAIZA  
 11/03/2022  
 DATE



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 11641 Blocker Dr, Ste 170, Auburn, CA 95603  
 530.888.9929 | coastlandcivil.com

PROJECT MANAGER:	DATE	DEPICTION OF MONUMENTS:	DATE
SURVEY PARTY CHIEF:		WATERSHED REVIEW:	DATE

SUBMITTED:	DATE	DESIGN:	ERG
SUPERVISING CIVIL ENGINEER:	R.C.E.	DRAWN:	JM/ERG
APPROVED:	DATE	CHECK:	LML
CITY ENGINEER:	R.C.E.	AS BUILT:	

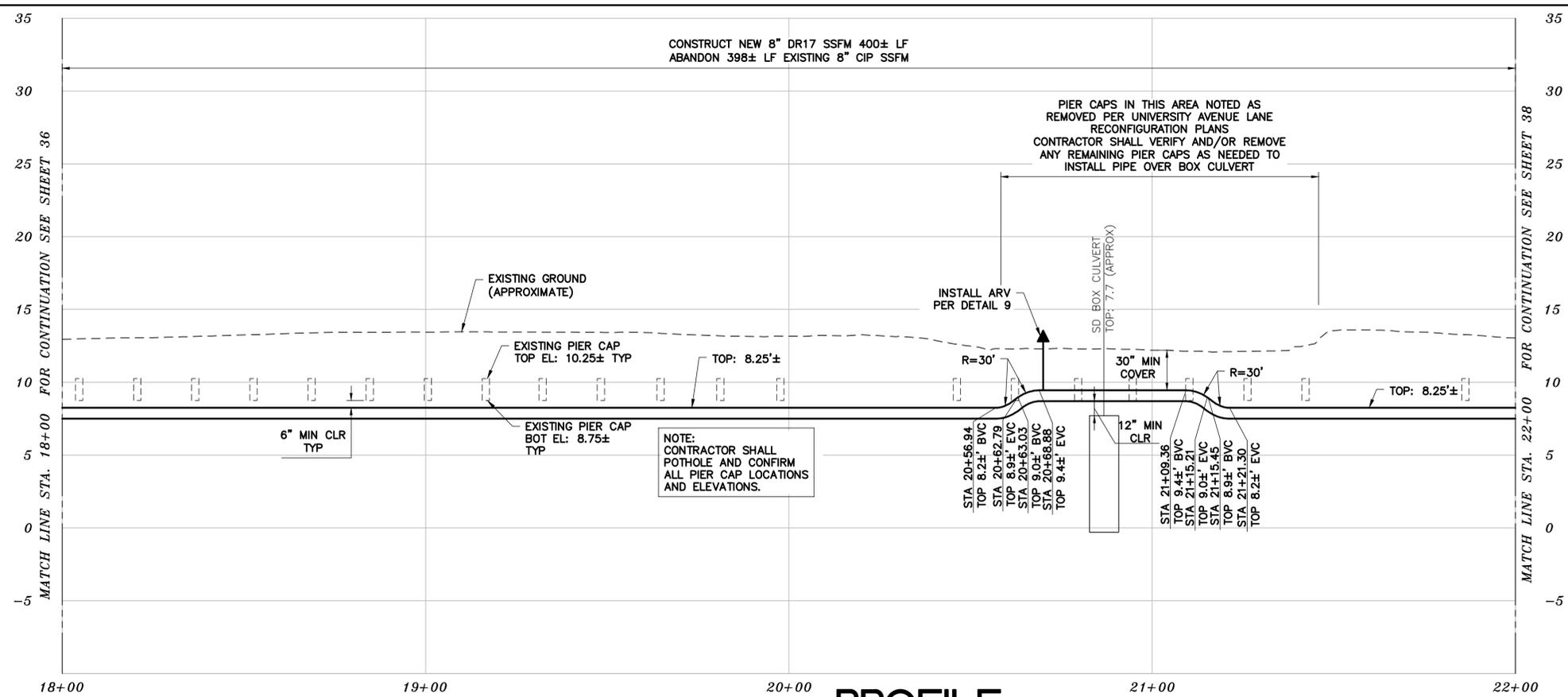
HORIZ.:	1" = 20'
VERT.:	1" = 5'
BOOK:	
DATE:	11/03/2022

**CITY OF BERKELEY**  
 DEPARTMENT OF PUBLIC WORKS

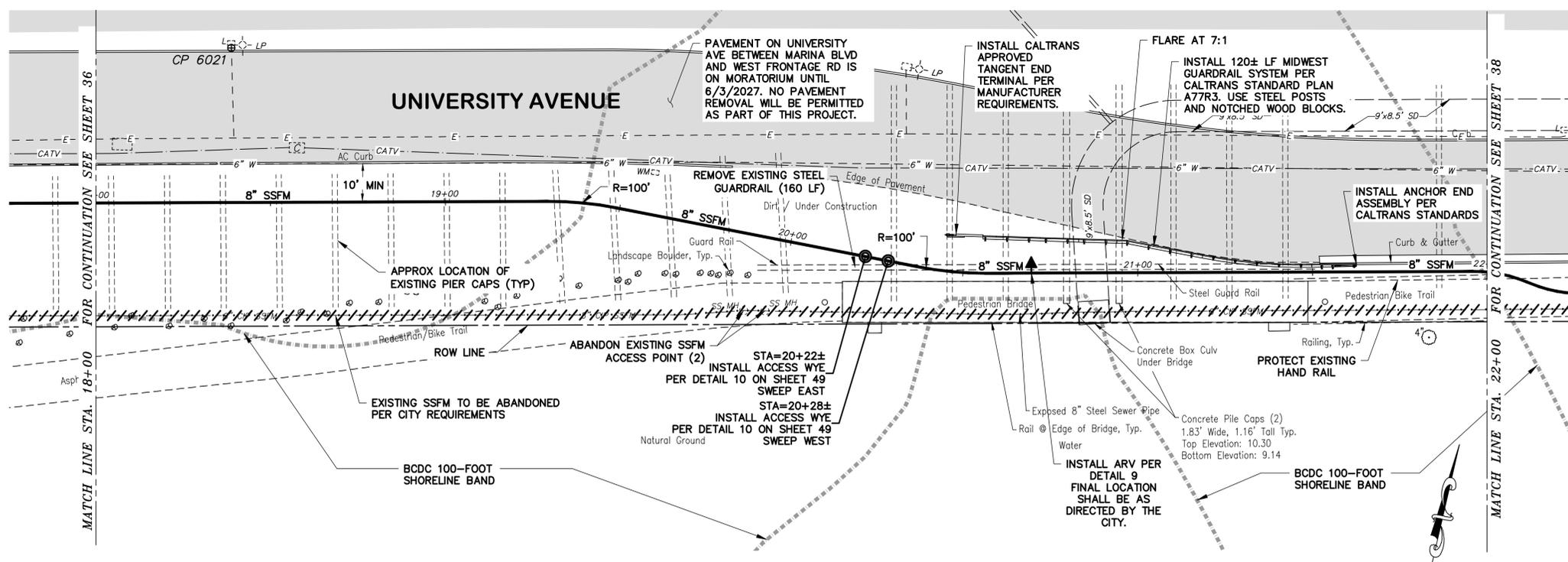
**SANITARY SEWER REHABILITATION**  
**UNIVERSITY AVENUE**  
 STA. 14+00 TO STA. 18+00  
 PLAN AND PROFILE

PLAN 8240  
 FILE 502-704  
 SHEET 36 OF 49

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# PROFILE



# PLAN

- NOTES:
- FOR GENERAL NOTES SEE SHEET 4 OF THE PLANS.
  - RECONSTRUCT CITY MONUMENTS DISTURBED BY SEWER INSTALLATION. REFER TO STANDARD DETAIL PLAN NOS. 8090 & 8091 OF THE SPECIFICATIONS.
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*Laurie M. Loaiza*  
 LAURIE M. LOAIZA  
 11/03/2022  
 DATE

REGISTERED PROFESSIONAL ENGINEER  
 LAURIE M. LOAIZA  
 No. C65951  
 CIVIL  
 STATE OF CALIFORNIA

**COASTLAND BCCM**  
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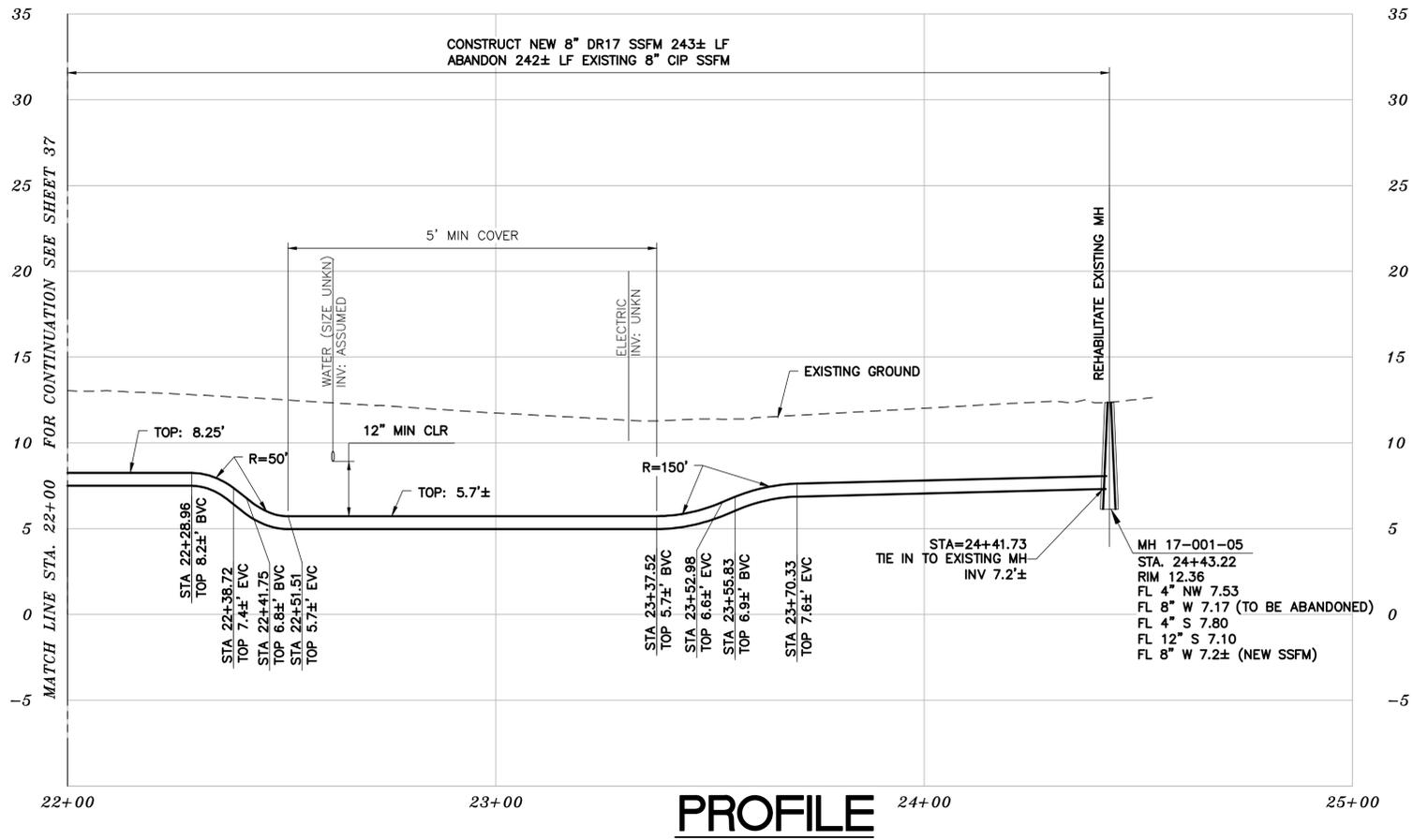
PROJECT MANAGER: _____ DATE _____	DEPICTION OF MONUMENTS: _____ DATE _____	SUBMITTED: _____ DATE _____	DESIGN: <u>ERG</u>	HORIZ. 1" = 20'
SURVEY PARTY CHIEF: _____ DATE _____	WATERSHED REVIEW: _____ DATE _____	SUPERVISING CIVIL ENGINEER: _____ DATE _____	DRAWN: <u>JM/ERG</u>	VERT. 1" = 5'
FOR REDUCED PLANS - ORIGINAL SCALE IS IN INCHES	APPROVED: _____ DATE _____	CITY ENGINEER: _____ DATE _____	CHECK: <u>LML</u>	BOOK: _____
			AS BUILT: _____	DATE: 11/03/2022

**CITY OF BERKELEY**  
 DEPARTMENT OF PUBLIC WORKS

**SANITARY SEWER REHABILITATION**  
**UNIVERSITY AVENUE**  
 STA. 18+00 TO STA. 22+00  
 PLAN AND PROFILE

PLAN 8240  
 FILE 502-704  
 SHEET 37 OF 49

T:\Civil 3D Projects\1234831 HEARST SEWER REHAB.dwg\1234831-PP-Univ.dwg [37 University] 11-04-22 10:56:08 AM marcelle



### UNIVERSITY AVENUE SURVEY CONTROL POINTS

CONTROL DATA (U.S. SURVEY FOOT)  
 -HORIZONTAL CONTROL IN GROUND VALUES USING AN ASSUMED ORIGIN  
 -VERTICAL CONTROL IN CITY OF BERKELEY DATUM

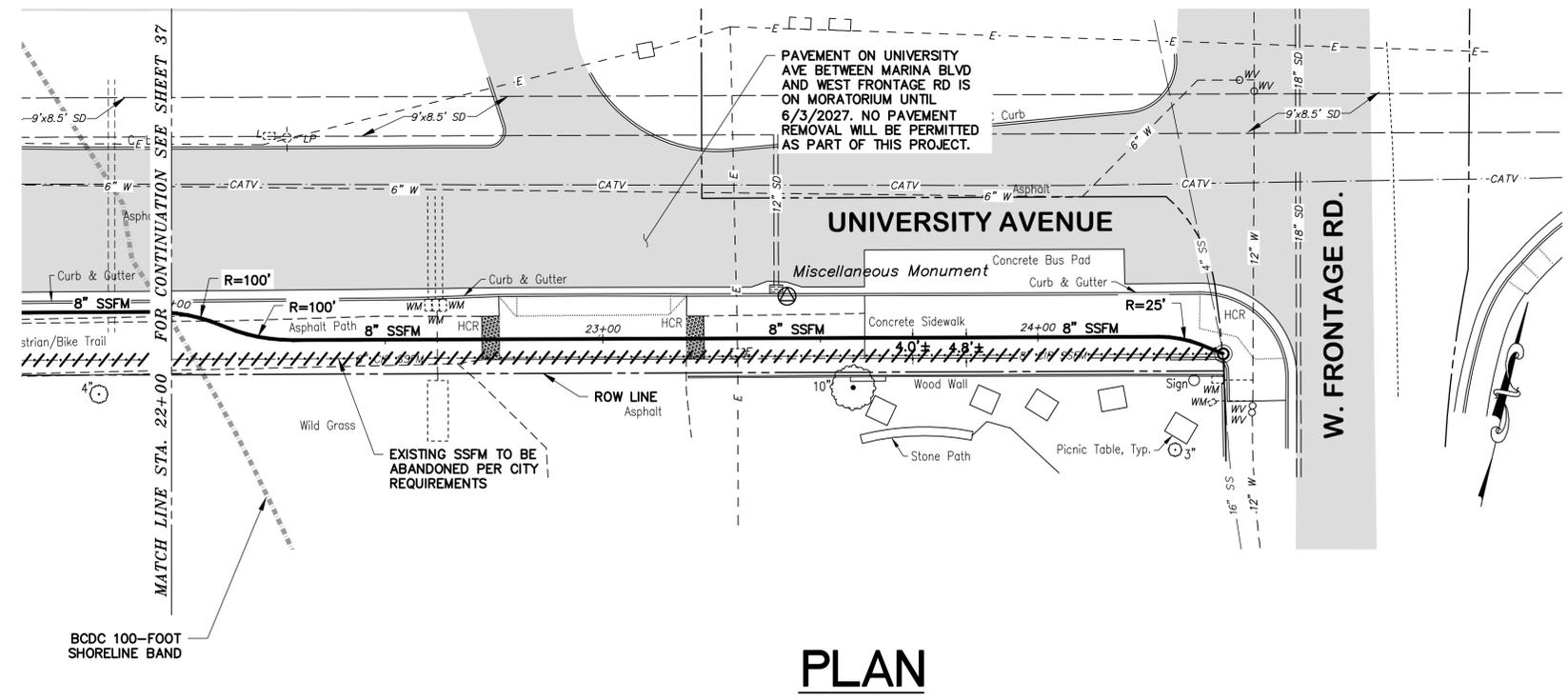
DESIGNATION	NORTHING	EASTING	ELEVATION	DESCRIPTION
<b>CITY MONUMENTS USED</b>				
B2558	2142548.2426	6038841.6821	10.66	BPCM3
B2560	2142933.2746	6040372.3914	10.54	BPCM3
<b>CONTROL SET</b>				
CP 6020	2142611.3500	6039200.5900	13.65	MAG NAIL
CP 6021	2142808.4700	6039887.3100	13.88	SCRIBED CROSS

NOTE: THE CONTROL TABLE VALUES CONTAINED HEREIN HAVE BEEN REVIEWED BY A CITY OF BERKELEY SURVEY CHIEF OF PARTY FOR CONFORMITY WITH RECORD INFORMATION ONLY. NO FIELD VERIFICATION OF THIS DATA HAS BEEN PERFORMED BY CITY OF BERKELEY SURVEY CREWS.  
 NOTE: MONUMENTS B2558 AND B2560 ARE OUTSIDE OF THE LIMIT SHOWN ON THESE PLANS.

### SANITARY SEWER LAYOUT - UNIVERSITY AVE FM

STATION	EASTING	NORTHING	Δ OR BEARING	DISTANCE	RADIUS	DESCRIPTION
10+00.00	2142597.44	6039083.31	N76°50'06.88"E	10.79'	---	EXISTING WET WELL
10+10.79	2142599.90	6039093.81	N58°12'48.46"W	19.25'	---	BEND
10+30.04	2142589.76	6039110.17	Δ RT N80°42'48.46"W	23.56'	30.0'	PC
10+53.60	2142586.05	6039132.83	S76°47'11.54"W	875.83'	---	PT
19+29.43	2142786.25	6039985.48	Δ RT S82°24'41.62"W	19.64'	100.0'	PC
19+49.07	2142788.84	6040004.91	S88°02'11.54"W	87.82'	---	PT
20+36.89	2142791.85	6040092.68	Δ LT N82°24'41.54"E	19.63'	100.0'	PC
20+56.52	2142794.44	6040112.11	S76°47'11.54"W	139.47'	---	PT
21+95.99	2142826.32	6040247.89	Δ RT S88°02'11.54"W	15.71'	40.0'	PC
22+11.70	2142826.85	6040263.49	N80°42'48.46"W	1.14'	---	PT
22+12.84	2142826.67	6040264.61	Δ LT S88°02'11.54"W	15.71'	40.0'	PC
22+28.55	2142827.20	6040280.21	S76°47'11.54"	199.38'	---	PT
24+27.93	2142872.78	6040474.31	Δ RT S87°49'35.18"W	9.63'	25.0'	PC
24+37.56	2142873.14	6040483.88	N81°08'1.18"W	5.71'	---	PT
24+43.27	2142872.23	6040489.51	---	---	---	MH

## PROFILE



## PLAN

- NOTES:
- FOR GENERAL NOTES SEE SHEET 4 OF THE PLANS.
  - RECONSTRUCT CITY MONUMENTS DISTURBED BY SEWER INSTALLATION. REFER TO STANDARD DETAIL PLAN NOS. 8090 & 8091 OF THE SPECIFICATIONS.
  - IN ACCORDANCE WITH SPECIAL CONDITION NO. 13 IN THE SPECIAL PROVISIONS, PRIOR TO EXCAVATION, CONTRACTOR SHALL POTHOLE AND VERIFY THE LOCATION AND DEPTH OF EXISTING STORM DRAINS, SANITARY SEWER MAINS, SEWER LATERALS, AND OTHER UTILITIES OR CONDUITS TO CONFIRM CLEARANCE TO THE WORK BEING PERFORMED. IF CLEARANCE IS LESS THAN 12 INCHES OR IF THERE IS AN EXISTING CONCRETE SADDLE AT THE CROSSING, NOTIFY ENGINEER IMMEDIATELY PRIOR TO CONTINUING WORK.
  - ALL EXISTING TREES SHALL BE PROTECTED AGAINST INJURY FROM CONSTRUCTION OPERATIONS UNLESS OTHERWISE NOTED.
  - EXISTING 8" SSFM SHALL REMAIN UNDISTURBED AND IN USE THROUGHOUT THE DURATION OF THE NEW FORCE MAIN CONSTRUCTION. SHUTDOWN FOR TIE INS AT UPSTREAM AND DOWNSTREAM STRUCTURES SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
  - AC PAVING IN UNIVERSITY AVENUE IS UNDER MORATORIUM UNTIL JUNE 2027. CONTRACTOR SHALL NOT DISTURB PAVEMENT.

*Laurie M. Loaiza*  
 LAURIE M. LOAIZA  
 11/03/2022  
 DATE



**COASTLAND | BCCM**  
 11641 Blocker Dr, Ste 170, Auburn, CA 95603  
 530.888.9929 | coastlandcivil.com

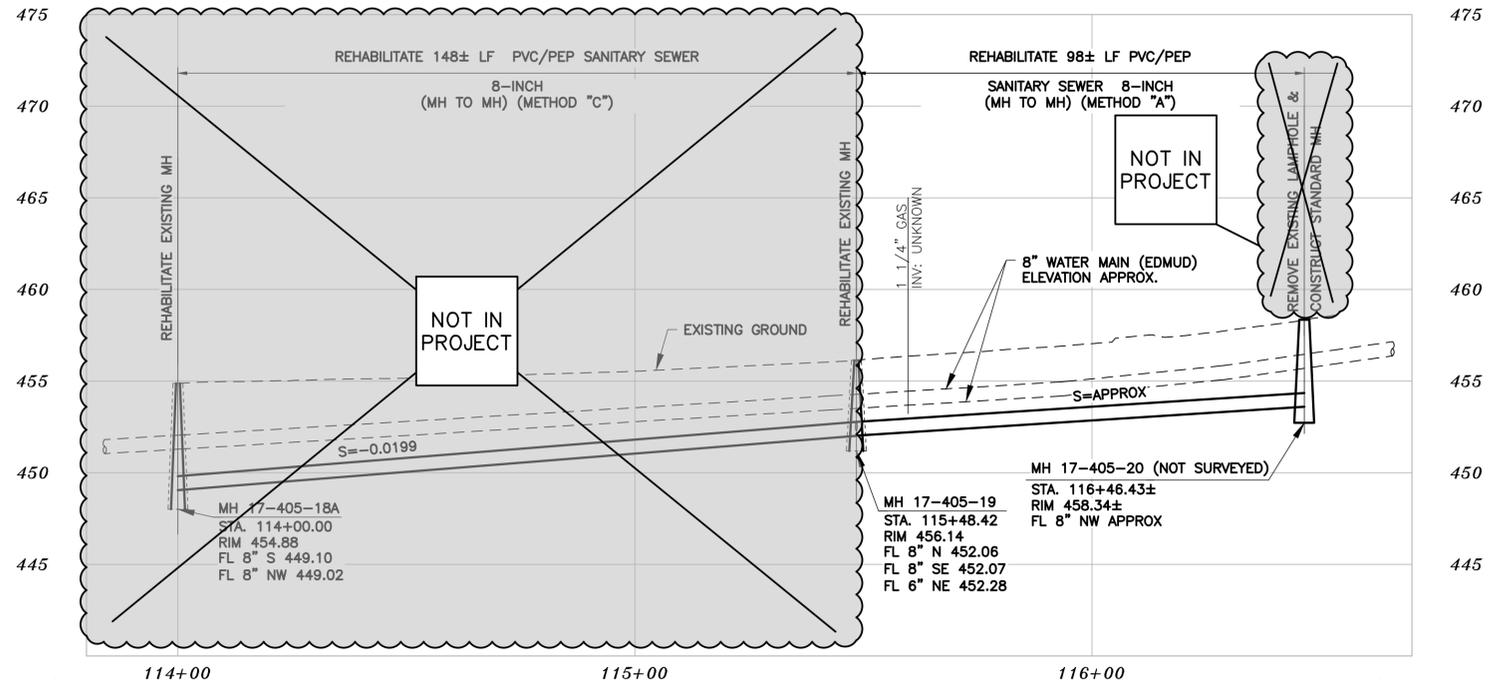
PROJECT MANAGER: _____ DATE _____	DEPICTION OF MONUMENTS: _____ DATE _____	SUBMITTED: _____ DATE _____
SURVEY PARTY CHIEF: _____ DATE _____	WATERSHED REVIEW: _____ DATE _____	DESIGN: _____ DATE _____
		DRAWN: _____ DATE _____
		CHECK: _____ DATE _____
		AS BUILT: _____ DATE _____

APPROVED: _____ DATE _____	CITY ENGINEER: _____ DATE _____
DATE 11/03/2022	

**CITY OF BERKELEY**  
 DEPARTMENT OF PUBLIC WORKS  
**SANITARY SEWER REHABILITATION**  
**UNIVERSITY AVENUE**  
 STA. 22+00 TO STA. 25+50  
 PLAN AND PROFILE

PLAN 8240  
 FILE 502-704  
 SHEET 38 OF 49

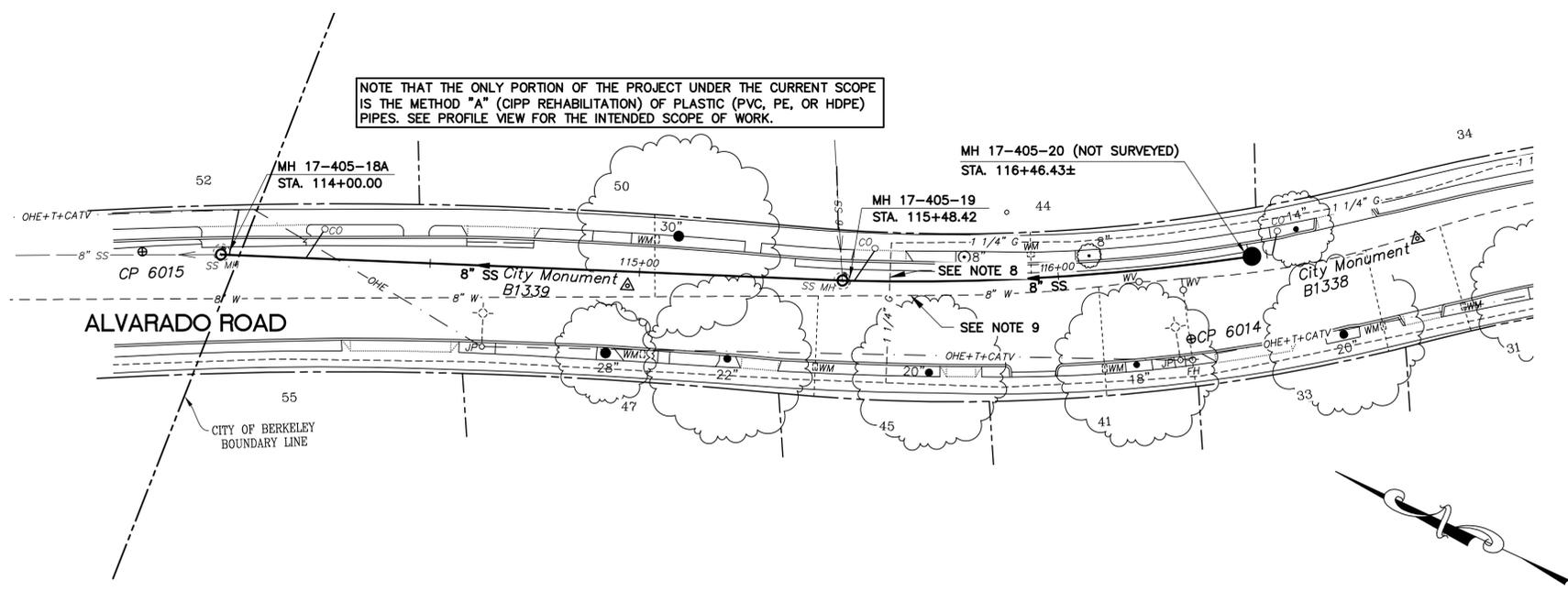
T:\Civil 3D Projects\1234831 HEARST SEWER REHAB.dwg\1234831-PP-Univ.dwg [38 University] 11-04-22 10:56:13 AM marcelle



**NOTE:**

- COMPONENTS OF THIS PROJECT WERE COMPLETED UNDER A SEPARATE CONTRACT, INCLUDING MAINTENANCE HOLE REHABILITATION, REPLACEMENT, AND INSTALLATION, AND SOME PIPE REHABILITATION. THE ONLY PORTION OF THE PROJECT UNDER THE CURRENT SCOPE IS THE METHOD "A" (CIPP REHABILITATION) OF PLASTIC (PVC, PE, OR HDPE) PIPES. THESE PLANS HAVE BEEN MODIFIED IN ORDER TO CLARIFY THE INTENDED SCOPE OF WORK.
- METHOD "A" FOR PLASTIC PIPE SHALL BE AS DESCRIBED IN THE TECHNICAL SPECIFICATIONS FOR CIPP LINER INSTALLED IN PLASTIC HOST PIPE. CONTRACTOR SHALL INSTALL CIPP CAREFULLY TO ENSURE THE LINING IS COMPLETE AND DOES NOT BLISTER.

## PROFILE



- NOTES:**
- FOR GENERAL NOTES SEE SHEET 4 OF THE PLANS.
  - LOCATE, RECONSTRUCT, EXTEND AND CONNECT ACTIVE LATERALS TO NEW SEWER MAIN. REMOVE EXISTING CLEANOUTS AND PROVIDE TWO-WAY CLEANOUTS WITH RISER, FRAME, CONCRETE COLLAR AND COVER.
  - LOWER LATERALS SHALL BE HDPE SDR-17.
  - RECONSTRUCT CITY MONUMENTS DISTURBED BY SEWER INSTALLATION. REFER TO STANDARD DETAIL PLAN NOS. 8090 & 8091 OF THE SPECIFICATIONS.
  - IN ACCORDANCE WITH SPECIAL CONDITION NO. 13 IN THE SPECIAL PROVISIONS, PRIOR TO EXCAVATION, CONTRACTOR SHALL POTHOLE AND VERIFY THE LOCATION AND DEPTH OF EXISTING STORM DRAINS, SANITARY SEWER MAINS, SEWER LATERALS, AND OTHER UTILITIES OR CONDUITS TO CONFIRM CLEARANCE TO THE WORK BEING PERFORMED. IF THERE IS AN EXISTING CONCRETE SADDLE AT THE CROSSING, NOTIFY ENGINEER IMMEDIATELY PRIOR TO CONTINUING WORK. IF CLEARANCE IS LESS THAN 12 INCHES, CONTRACTOR SHALL INSTALL CONCRETE CRADLE PER CITY OF BERKELEY'S STANDARD DETAIL "CLOSE CROSSING DETAIL".
  - CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHILE WORKING IN VICINITY OF EXISTING UTILITIES. TYPICAL.
  - LATERALS ARE SHOWN BASED ON CCTV AND/OR SURVEYED CLEANOUT LOCATIONS. IN LOCATIONS WHERE LATERALS COULD NOT BE CONFIRMED VIA CCTV, THE LATERALS ARE SHOWN WITH A DASHED LINE. IT IS UNKNOWN WHY SOME LOTS HAVE MULTIPLE SERVICES AND PROBABLE THAT SOME LATERALS TO SUCH SUCH LOTS ARE IN FACT ABANDONED/UNSUED. HOWEVER, ALL POSSIBLE LATERALS ARE SHOWN FOR COMPLETENESS SINCE NOT ENOUGH INFORMATION WAS AVAILABLE TO DETERMINE WHICH LATERALS ARE IN USE AND WHICH LATERALS ARE NOT. CONTRACTOR SHALL IDENTIFY WHICH LATERALS ARE ACTIVE PRIOR TO BEGINNING REHABILITATION OF SEWER LINE AND RECONNECT ALL ACTIVE LATERALS TO NEW MAIN FOLLOWING REHABILITATION.
  - CONTRACTOR SHALL WORK WITH PG&E TO LOCATE ALL PG&E FACILITIES AT PG&E'S OPTION, PG&E MAY REQUIRE A PG&E SPECIAL INSPECTOR OBSERVE ANY WORK WITHIN 3- FEET OF AN EXISTING PG&E FACILITY. CONTRACTOR SHALL SCHEDULE WORK ACCORDINGLY.
  - CONTRACTOR SHALL VERIFY THAT EDMUD CLEARANCE GUIDELINES ARE SATISFIED PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF, AFTER LOCATING UNDERGROUND UTILITIES, CONTRACTOR DETERMINES THAT EDMUD GUIDELINES ARE NOT MET.

## PLAN

### SANITARY SEWER LAYOUT - ALVARADO WEST

STATION	NORTHING	EASTING	BEARING	DISTANCE	DESCRIPTION
114+00.00	2139347.01	6059234.60	S25°22'15"E	148.45'	MH 17-405-18A
115+48.42	2139209.82	6059291.24	S28°34'22"E	105.07'	MH 17-405-19
116+53.48	2139117.69	6059341.42	---	---	MH 17-405-20 (NOT SURVEYED)

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 11641 Blocker Dr, Ste 170, Auburn, CA 95603  
 530.888.9929 | coastlandcivil.com

PROJECT MANAGER: _____ DATE _____	DEPICTION OF MONUMENTS: _____ DATE _____	SUBMITTED: _____ DATE _____	DESIGN: <u>ERG</u>	HORIZ. _____
SURVEY PARTY CHIEF: _____	WATERSHED REVIEW: _____ DATE _____	SUPERVISING CIVIL ENGINEER: _____	DRAWN: <u>JM/ERG</u>	VERT. _____
		APPROVED: _____	CHECK: <u>LML</u>	BOOK _____
		CITY ENGINEER: _____	AS BUILT _____	DATE: 11/03/2022

CITY OF BERKELEY  
 DEPARTMENT OF PUBLIC WORKS

SANITARY SEWER REHABILITATION  
 ALVARADO ROAD  
 PLAN AND PROFILE

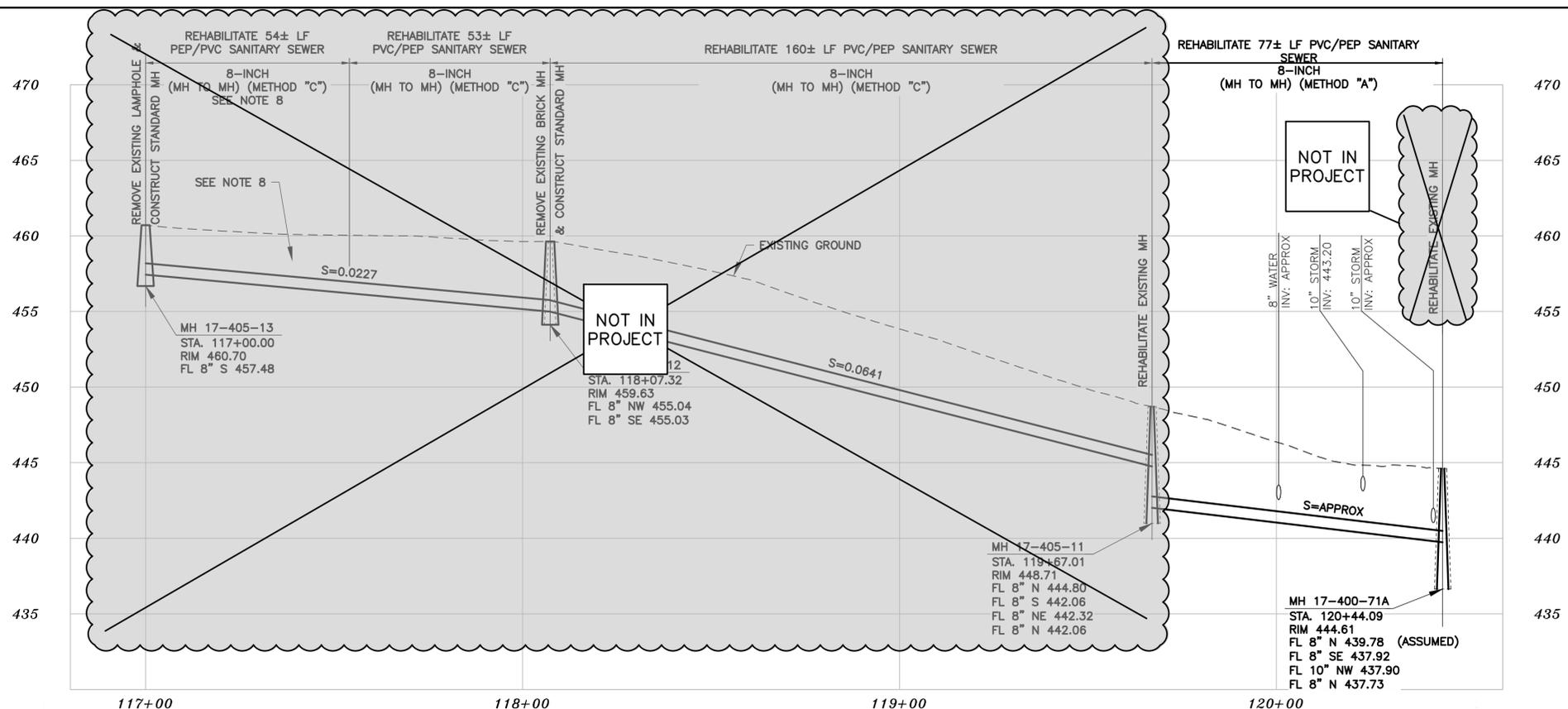
PLAN 8240  
 FILE 502-704  
 SHEET 39 OF 49

*Laurie M. Loaiza*  
 LAURIE M. LOAIZA  
 11/03/2022  
 DATE

**REGISTERED PROFESSIONAL ENGINEER**  
 LAURIE M. LOAIZA  
 No. C65951  
 CIVIL  
 STATE OF CALIFORNIA

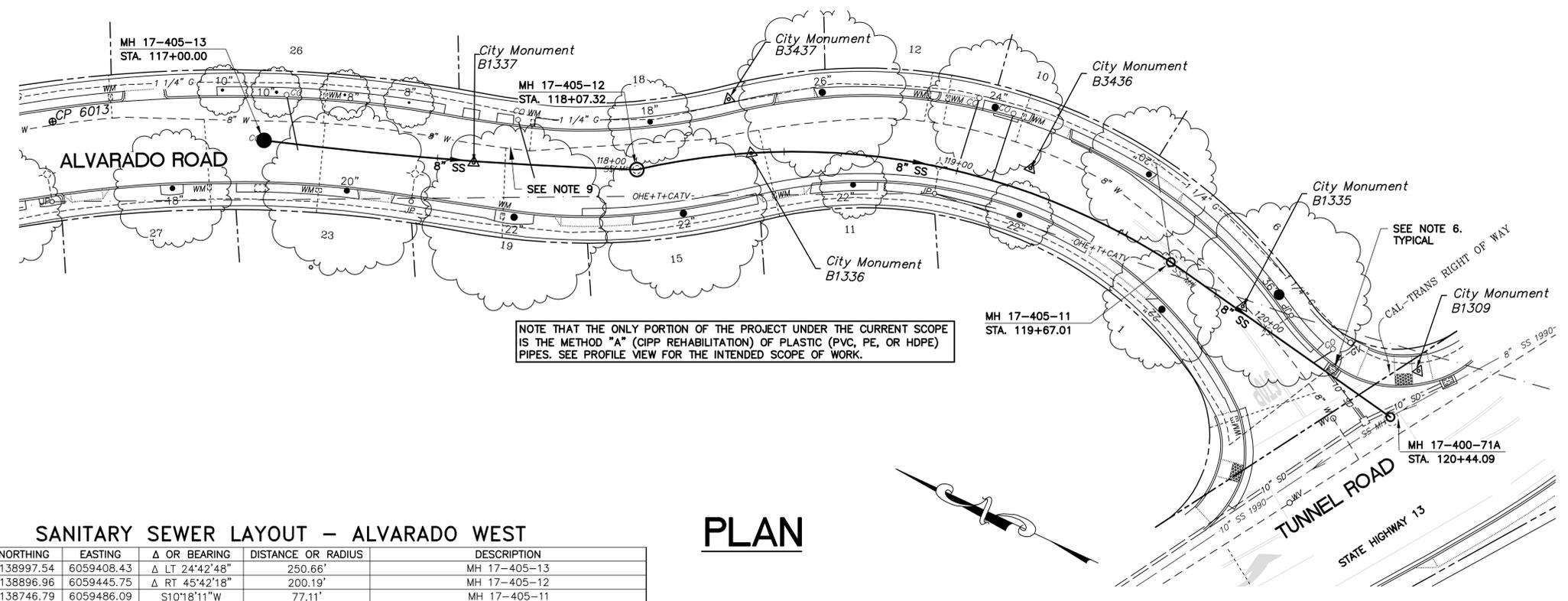
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### PROFILE

**NOTE:**  
 1. COMPONENTS OF THIS PROJECT WERE COMPLETED UNDER A SEPARATE CONTRACT, INCLUDING MAINTENANCE HOLE REHABILITATION, REPLACEMENT, AND INSTALLATION, AND SOME PIPE REHABILITATION. THE ONLY PORTION OF THE PROJECT UNDER THE CURRENT SCOPE IS THE METHOD "A" (CIPP REHABILITATION) OF PLASTIC (PVC, PE, OR HDPE) PIPES. THESE PLANS HAVE BEEN MODIFIED IN ORDER TO CLARIFY THE INTENDED SCOPE OF WORK.  
 2. METHOD "A" FOR PLASTIC PIPE SHALL BE AS DESCRIBED IN THE TECHNICAL SPECIFICATIONS FOR CIPP LINER INSTALLED IN PLASTIC HOST PIPE. CONTRACTOR SHALL INSTALL CIPP CAREFULLY TO ENSURE THE LINING IS COMPLETE AND DOES NOT BLISTER.



NOTE THAT THE ONLY PORTION OF THE PROJECT UNDER THE CURRENT SCOPE IS THE METHOD "A" (CIPP REHABILITATION) OF PLASTIC (PVC, PE, OR HDPE) PIPES. SEE PROFILE VIEW FOR THE INTENDED SCOPE OF WORK.

### SANITARY SEWER LAYOUT - ALVARADO WEST

STATION	NORTHING	EASTING	Δ OR BEARING	DISTANCE OR RADIUS	DESCRIPTION
117+00.00	2138997.54	6059408.43	Δ LT 24°42'48"	250.66'	MH 17-405-13
118+08.12	2138896.96	6059445.75	Δ RT 45°42'18"	200.19'	MH 17-405-12
119+67.81	2138746.79	6059486.09	S10°18'11"W	77.11'	MH 17-405-11
120+44.89	2138670.96	6059472.30	---	---	MH 17-400-71A

### PLAN

- NOTES:**
- FOR GENERAL NOTES SEE SHEET 4 OF THE PLANS.
  - LOCATE, RECONSTRUCT, EXTEND AND CONNECT ACTIVE LATERALS TO NEW SEWER MAIN. REMOVE EXISTING CLEANOUTS AND PROVIDE TWO-WAY CLEANOUTS WITH RISER, FRAME, CONCRETE COLLAR AND COVER.
  - LOWER LATERALS SHALL BE HDPE SDR-17.
  - RECONSTRUCT CITY MONUMENTS DISTURBED BY SEWER INSTALLATION. REFER TO STANDARD DETAIL PLAN NOS. 8090 & 8091 OF THE SPECIFICATIONS.
  - IN ACCORDANCE WITH SPECIAL CONDITION NO. 13 IN THE SPECIAL PROVISIONS, PRIOR TO EXCAVATION, CONTRACTOR SHALL POTHOLE AND VERIFY THE LOCATION AND DEPTH OF EXISTING STORM DRAINS, SANITARY SEWER MAINS, SEWER LATERALS, AND OTHER UTILITIES OR CONDUITS TO CONFIRM CLEARANCE TO THE WORK BEING PERFORMED. IF THERE IS AN EXISTING CONCRETE SADDLE AT THE CROSSING, NOTIFY ENGINEER IMMEDIATELY PRIOR TO CONTINUING WORK. IF CLEARANCE IS LESS THAN 12 INCHES, CONTRACTOR SHALL INSTALL CONCRETE CRADLE PER CITY OF BERKELEY'S STANDARD DETAIL "CLOSE CROSSING DETAIL".
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  - CONTRACTOR SHALL INSTALL CONCRETE CAP PER CITY STANDARD DETAIL 23 WHERE COVER IS LESS THAN 36".
  - CONTRACTOR SHALL VERIFY THAT EDMUD CLEARANCE GUIDELINES ARE SATISFIED PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF, AFTER LOCATING UNDERGROUND UTILITIES, CONTRACTOR DETERMINES THAT EDMUD GUIDELINES ARE NOT MET.

LAURIE M. LOAZA  
 11/03/2022  
 DATE

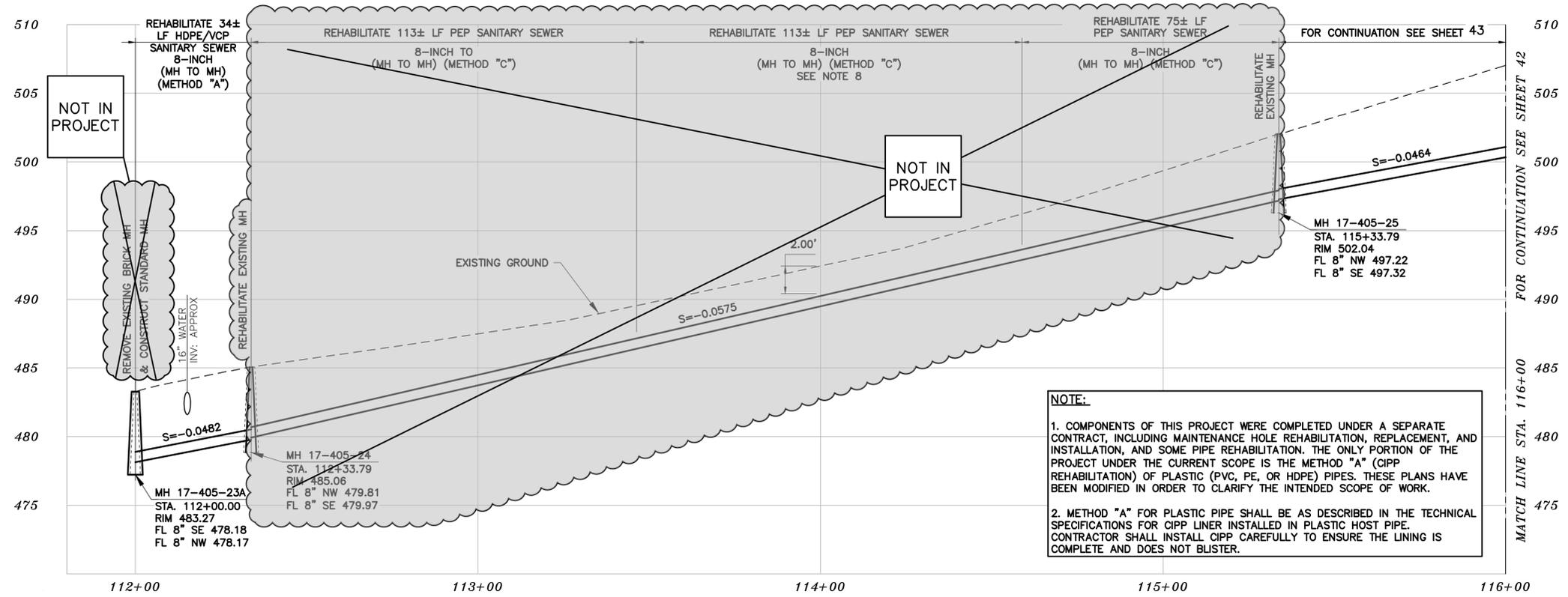
**COASTLAND | DCCM**  
 11641 Blocker Dr, Ste 170, Auburn, CA 95603  
 530.888.9929 | coastlandcivil.com

PROJECT MANAGER: _____ DATE _____	DEPICTION OF MONUMENTS: _____ DATE _____	SUBMITTED: _____ DATE _____	DESIGN: _____ ERG _____	HORIZ. _____
SURVEY PARTY CHIEF: _____ DATE _____	WATERSHED REVIEW: _____ DATE _____	SUPERVISING CIVIL ENGINEER: _____ DATE _____	DRAWN: _____ JM/ERG _____	VERT. _____
CITY ENGINEER: _____ DATE _____		APPROVED: _____ DATE _____	CHECK: _____ LML _____	BOOK _____
			AS BUILT _____	DATE 11/03/2022

**CITY OF BERKELEY**  
 DEPARTMENT OF PUBLIC WORKS

**SANITARY SEWER REHABILITATION**  
**ALVARADO ROAD**  
**PLAN AND PROFILE**

PLAN 8240  
 FILE 502-704  
 SHEET 40 OF 49

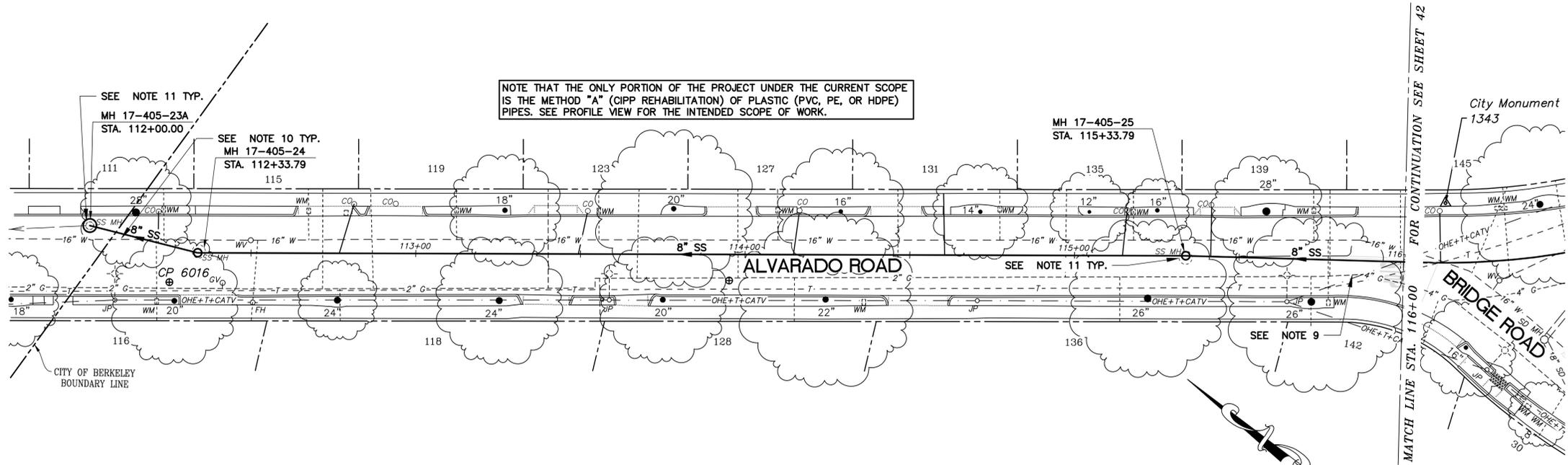


### PROFILE

**NOTE:**

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- NOTES:**
- FOR GENERAL NOTES SEE SHEET 4 OF THE PLANS.
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  - LOWER LATERALS SHALL BE HDPE SDR-17.
  - RECONSTRUCT CITY MONUMENTS DISTURBED BY SEWER INSTALLATION. REFER TO STANDARD DETAIL PLAN NOS. 8090 & 8091 OF THE SPECIFICATIONS.
  - IN ACCORDANCE WITH SPECIAL CONDITION NO. 13 IN THE SPECIAL PROVISIONS, PRIOR TO EXCAVATION, CONTRACTOR SHALL POTHOLE AND VERIFY THE LOCATION AND DEPTH OF EXISTING STORM DRAINS, SANITARY SEWER MAINS, SEWER LATERALS, AND OTHER UTILITIES OR CONDUITS TO CONFIRM CLEARANCE TO THE WORK BEING PERFORMED. IF THERE IS AN EXISTING CONCRETE SADDLE AT THE CROSSING, NOTIFY ENGINEER IMMEDIATELY PRIOR TO CONTINUING WORK. IF CLEARANCE IS LESS THAN 12 INCHES, CONTRACTOR SHALL INSTALL CONCRETE CRADLE PER CITY OF BERKELEY'S STANDARD DETAIL "CLOSE CROSSING DETAIL".
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  - CONTRACTOR SHALL INSTALL CONCRETE CAP PER CITY STANDARD DETAIL 23 WHERE COVER IS LESS THAN 36".
  - CONTRACTOR SHALL WORK WITH PG&E TO LOCATE ALL PG&E FACILITIES AT PG&E'S OPTION. PG&E MAY REQUIRE A PG&E SPECIAL INSPECTOR OBSERVE ANY WORK WITHIN 3- FEET OF AN EXISTING PG&E FACILITY. CONTRACTOR SHALL SCHEDULE WORK ACCORDINGLY.
  - CONTRACTOR SHALL VERIFY THAT EDMUD CLEARANCE GUIDELINES ARE SATISFIED PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF, AFTER LOCATING UNDERGROUND UTILITIES, CONTRACTOR DETERMINES THAT EDMUD GUIDELINES ARE NOT MET.
  - CONTRACTOR SHALL EXERCISE CAUTION IN THE VICINITY OF EDMUD FACILITIES WHILE REHABILITATING EXISTING MAINTENANCE HOLE OR CONSTRUCTING NEW MH. COORDINATE CONSTRUCTION WITH EDMUD.



### PLAN

#### SANITARY SEWER LAYOUT - ALVARADO & BRIDGE

STATION	NORTHING	EASTING	BEARING	DISTANCE	DESCRIPTION
112+00.00	2139364.70	6059471.55	S25°22'15"E	33.83'	MH 17-405-23A
112+33.79	2139334.17	6059486.02	S39°19'55"E	300.50'	MH 17-405-24
115+33.79	2139102.13	6059676.17	S37°55'20"E	66.21	MH 17-405-25
116+00.00	2139049.90	6059716.86	---	---	MATCH LINE

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 530.888.9929 | coastlandcivil.com

PROJECT MANAGER: _____ DATE _____	DEPICTION OF MONUMENTS: _____ DATE _____	SUBMITTED: _____ DATE _____	DESIGN: <u>ERG</u>	HORIZ. _____
SURVEY PARTY CHIEF: _____ DATE _____	WATERSHED REVIEW: _____ DATE _____	SUPERVISING CIVIL ENGINEER: _____ DATE _____	DRAWN: <u>JM/ERG</u>	VERT. _____
CITY ENGINEER: _____ DATE _____	APPROVED: _____ DATE _____	CHECK: <u>LML</u>	AS BUILT: _____	BOOK _____
				DATE: 11/03/2022

**CITY OF BERKELEY**  
 DEPARTMENT OF PUBLIC WORKS

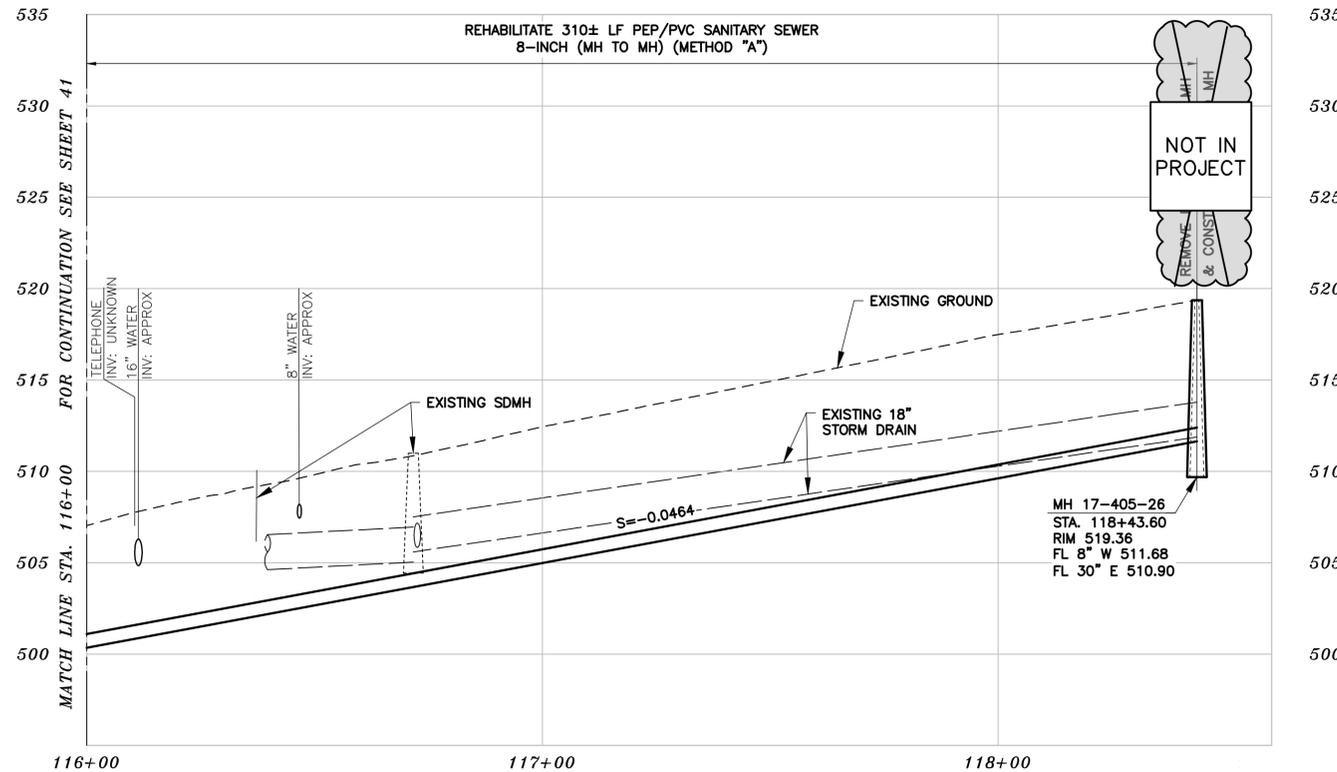
#### SANITARY SEWER REHABILITATION ALVARADO ROAD PLAN AND PROFILE

PLAN 8240  
 FILE 502-704  
 SHEET 41 OF 49

*Laurie M. Loaiza*  
 LAURIE M. LOAIZA  
 11/03/2022  
 DATE



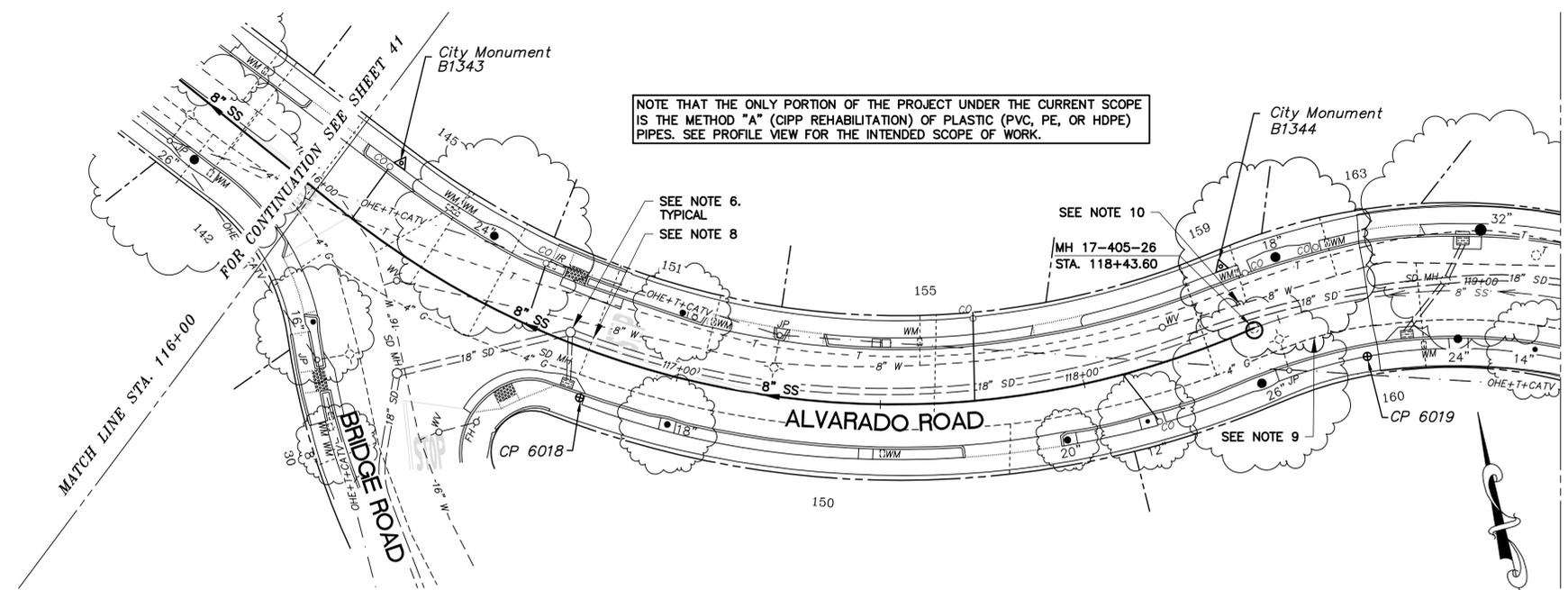
T:\Civil\_3D\Projects\1234831 HEARST SEWER REHAB\Alvarado\DWG\1234601 - Alvarado & Bridge Rd.dwg [ALVARADO - 16] 11-04-22 11:00:34 AM marcelle



**NOTE:**

- COMPONENTS OF THIS PROJECT WERE COMPLETED UNDER A SEPARATE CONTRACT, INCLUDING MAINTENANCE HOLE REHABILITATION, REPLACEMENT, AND INSTALLATION, AND SOME PIPE REHABILITATION. THE ONLY PORTION OF THE PROJECT UNDER THE CURRENT SCOPE IS THE METHOD "A" (CIPP REHABILITATION) OF PLASTIC (PVC, PE, OR HDPE) PIPES. THESE PLANS HAVE BEEN MODIFIED IN ORDER TO CLARIFY THE INTENDED SCOPE OF WORK.
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## PROFILE



- NOTES:**
- FOR GENERAL NOTES SEE SHEET # OF THE PLANS.
  - LOCATE, RECONSTRUCT, EXTEND AND CONNECT ACTIVE LATERALS TO NEW SEWER MAIN. REMOVE EXISTING CLEANOUTS AND PROVIDE TWO-WAY CLEANOUTS WITH RISER, FRAME, CONCRETE COLLAR AND COVER.
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  - RECONSTRUCT CITY MONUMENTS DISTURBED BY SEWER INSTALLATION. REFER TO STANDARD DETAIL PLAN NOS. 8090 & 8091 OF THE SPECIFICATIONS.
  - IN ACCORDANCE WITH SPECIAL CONDITION NO. 13 IN THE SPECIAL PROVISIONS, PRIOR TO EXCAVATION, CONTRACTOR SHALL POthOLE AND VERIFY THE LOCATION AND DEPTH OF EXISTING STORM DRAINS, SANITARY SEWER MAINS, SEWER LATERALS, AND OTHER UTILITIES OR CONDUITS TO CONFIRM CLEARANCE TO THE WORK BEING PERFORMED. IF THERE IS AN EXISTING CONCRETE SADDLE AT THE CROSSING, NOTIFY ENGINEER IMMEDIATELY PRIOR TO CONTINUING WORK. IF CLEARANCE IS LESS THAN 12 INCHES, CONTRACTOR SHALL INSTALL CONCRETE CRADLE PER CITY OF BERKELEY'S STANDARD DETAIL "CLOSE CROSSING DETAIL".
  - CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHILE WORKING IN VICINITY OF STORM DRAIN LINE AND/OR MAINTENANCE HOLE.
  - LATERALS ARE SHOWN BASED ON CCTV AND/OR SURVEYED CLEANOUT LOCATIONS. IN LOCATIONS WHERE LATERALS COULD NOT BE CONFIRMED VIA CCTV, THE LATERALS ARE SHOWN WITH A DASHED LINE. IT IS UNKNOWN WHY SOME LOTS HAVE MULTIPLE SERVICES AND PROBABLE THAT SOME LATERALS TO SUCH SUCH LOTS ARE IN FACT ABANDONED/UNSUED. HOWEVER, ALL POSSIBLE LATERALS ARE SHOWN FOR COMPLETENESS SINCE NOT ENOUGH INFORMATION WAS AVAILABLE TO DETERMINE WHICH LATERALS ARE IN USE AND WHICH LATERALS ARE NOT. CONTRACTOR SHALL IDENTIFY WHICH LATERALS ARE ACTIVE PRIOR TO BEGINNING REHABILITATION OF SEWER LINE AND RECONNECT ALL ACTIVE LATERALS TO NEW MAIN FOLLOWING REHABILITATION.
  - CONTRACTOR SHALL EXERCISE CAUTION IN THE VICINITY OF EXISTING STORM DRAIN MAINTENANCE HOLE AND STORM DRAIN PIPE CROSSING. EXPOSE CROSSING PRIOR TO AND DURING METHOD "B" REHABILITATION.
  - CONTRACTOR SHALL WORK WITH PG&E TO LOCATE ALL PG&E FACILITIES AT PG&E'S OPTION, PG&E MAY REQUIRE A PG&E SPECIAL INSPECTOR OBSERVE ANY WORK WITHIN 3- FEET OF AN EXISTING PG&E FACILITY. CONTRACTOR SHALL SCHEDULE WORK ACCORDINGLY.
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## PLAN

### SANITARY SEWER LAYOUT - ALVARADO & BRIDGE

STATION	NORTHING	EASTING	Δ OR BEARING	RADIUS	DESCRIPTION
116+00.00	2139049.90	6059716.86	Δ LT 62°45'47"	216.00'	MATCH LINE
118+43.60	2138964.88	6059931.60	---	---	MH 17-405-26

**COASTLAND | DCCM**  
 11641 Blocker Dr, Ste 170, Auburn, CA 95603  
 530.888.9929 | coastlandcivil.com

PROJECT MANAGER: _____ DATE _____	DEPICTION OF MONUMENTS: _____ DATE _____	SUBMITTED: _____ DATE _____	DESIGN: ERG	HORIZ. _____
SURVEY PARTY CHIEF: _____	WATERSHED REVIEW: _____ DATE _____	SUPERVISING CIVIL ENGINEER: _____	DRAWN: JM/ERG	VERT. _____
		APPROVED: _____	CHECK: LML	BOOK _____
		CITY ENGINEER: _____	AS BUILT _____	DATE 11/03/2022

**CITY OF BERKELEY**  
 DEPARTMENT OF PUBLIC WORKS

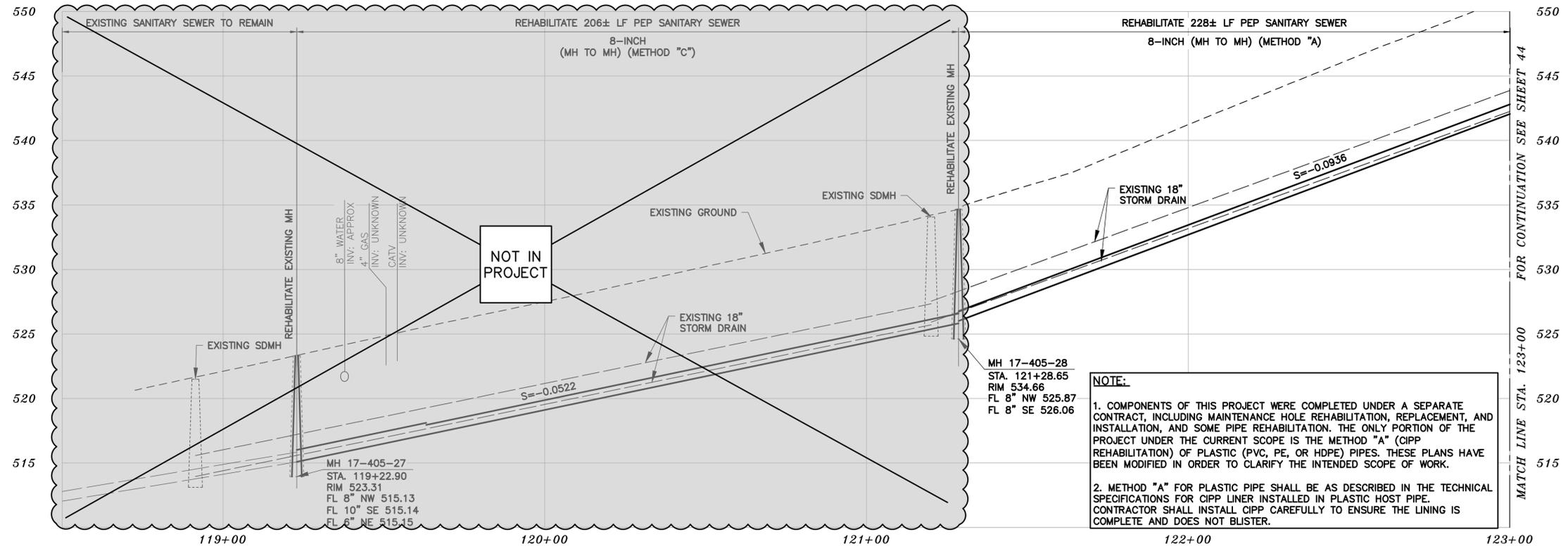
**SANITARY SEWER REHABILITATION**  
**ALVARADO ROAD**  
**PLAN AND PROFILE**

PLAN 8240  
 FILE 502-704  
 SHEET 42 OF 49

*Laurie M. Loaza*  
 LAURIE M. LOAZA  
 11/03/2022  
 DATE  
 CIVIL ENGINEER  
 STATE OF CALIFORNIA

T:\Civil\_3D\Projects\1234831\HEARST\_SEWER\_REHAB\Alvarado\DWG\1234601 - Alvarado & Bridge\_Rd.dwg [ALVARADO - 17] 11-04-22 11:00:56 AM marcelle

T:\Civil\_3D Projects\1234831 HEARST SEWER REHAB\Alvarado\_DWG\1234601 - Alvarado & Vicente Road.dwg [ALVARADO-18] 11-04-22 11:03:04 AM marcelle

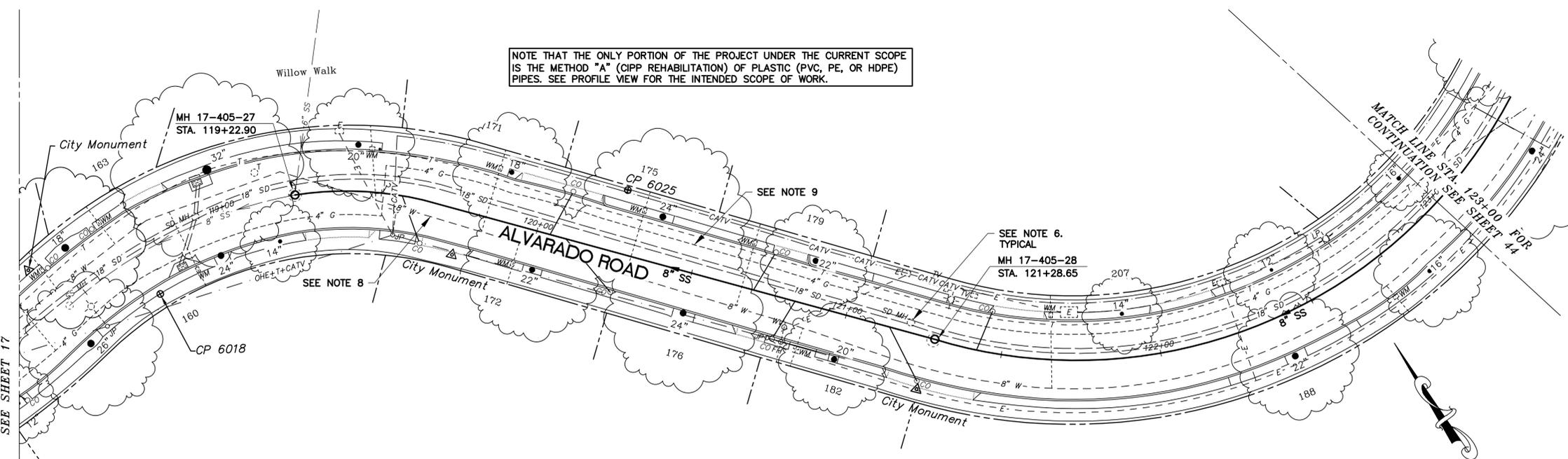


# PROFILE

**NOTE:**

- COMPONENTS OF THIS PROJECT WERE COMPLETED UNDER A SEPARATE CONTRACT, INCLUDING MAINTENANCE HOLE REHABILITATION, REPLACEMENT, AND INSTALLATION, AND SOME PIPE REHABILITATION. THE ONLY PORTION OF THE PROJECT UNDER THE CURRENT SCOPE IS THE METHOD "A" (CIPP REHABILITATION) OF PLASTIC (PVC, PE, OR HDPE) PIPES. THESE PLANS HAVE BEEN MODIFIED IN ORDER TO CLARIFY THE INTENDED SCOPE OF WORK.
- METHOD "A" FOR PLASTIC PIPE SHALL BE AS DESCRIBED IN THE TECHNICAL SPECIFICATIONS FOR CIPP LINER INSTALLED IN PLASTIC HOST PIPE. CONTRACTOR SHALL INSTALL CIPP CAREFULLY TO ENSURE THE LINING IS COMPLETE AND DOES NOT BLISTER.

- NOTES:**
- FOR GENERAL NOTES SEE SHEET 4 OF THE PLANS.
  - LOCATE, RECONSTRUCT, EXTEND AND CONNECT ACTIVE LATERALS TO NEW SEWER MAIN. REMOVE EXISTING CLEANOUTS AND PROVIDE TWO-WAY CLEANOUTS WITH RISER, FRAME, CONCRETE COLLAR AND COVER.
  - LOWER LATERALS SHALL BE HDPE SDR-17.
  - RECONSTRUCT CITY MONUMENTS DISTURBED BY SEWER INSTALLATION. REFER TO STANDARD DETAIL PLAN NOS. 8090 & 8091 OF THE SPECIFICATIONS.
  - IN ACCORDANCE WITH SPECIAL CONDITION NO. 13 IN THE SPECIAL PROVISIONS, PRIOR TO EXCAVATION, CONTRACTOR SHALL POTHOLE AND VERIFY THE LOCATION AND DEPTH OF EXISTING STORM DRAINS, SANITARY SEWER MAINS, SEWER LATERALS, AND OTHER UTILITIES OR CONDUITS TO CONFIRM CLEARANCE TO THE WORK BEING PERFORMED. IF THERE IS AN EXISTING CONCRETE SADDLE AT THE CROSSING, NOTIFY ENGINEER IMMEDIATELY PRIOR TO CONTINUING WORK. IF CLEARANCE IS LESS THAN 12 INCHES, CONTRACTOR SHALL INSTALL CONCRETE CRADLE PER CITY OF BERKELEY'S STANDARD DETAIL "CLOSE CROSSING DETAIL".
  - CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHILE WORKING IN VICINITY OF STORM DRAIN MAINTENANCE HOLE.
  - LATERALS ARE SHOWN BASED ON CCTV AND/OR SURVEYED CLEANOUT LOCATIONS. IN LOCATIONS WHERE LATERALS COULD NOT BE CONFIRMED VIA CCTV, THE LATERALS ARE SHOWN WITH A DASHED LINE. IT IS UNKNOWN WHY SOME LOTS HAVE MULTIPLE SERVICES AND PROBABLE THAT SOME LATERALS TO SUCH SUCH LOTS ARE IN FACT ABANDONED/UNUSED. HOWEVER, ALL POSSIBLE LATERALS ARE SHOWN FOR COMPLETENESS SINCE NOT ENOUGH INFORMATION WAS AVAILABLE TO DETERMINE WHICH LATERALS ARE IN USE AND WHICH LATERALS ARE NOT. CONTRACTOR SHALL IDENTIFY WHICH LATERALS ARE ACTIVE PRIOR TO BEGINNING REHABILITATION OF SEWER LINE AND RECONNECT ALL ACTIVE LATERALS TO NEW MAIN FOLLOWING REHABILITATION.
  - CONTRACTOR SHALL VERIFY THAT EDMUD CLEARANCE GUIDELINES ARE SATISFIED PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF, AFTER LOCATING UNDERGROUND UTILITIES, CONTRACTOR DETERMINES THAT EDMUD GUIDELINES ARE NOT MET.
  - CONTRACTOR SHALL WORK WITH PG&E TO LOCATE ALL PG&E FACILITIES AT PG&E'S OPTION, PG&E MAY REQUIRE A PG&E SPECIAL INSPECTOR OBSERVE ANY WORK WITHIN 3- FEET OF AN EXISTING PG&E FACILITY. CONTRACTOR SHALL SCHEDULE WORK ACCORDINGLY.



**NOTE THAT THE ONLY PORTION OF THE PROJECT UNDER THE CURRENT SCOPE IS THE METHOD "A" (CIPP REHABILITATION) OF PLASTIC (PVC, PE, OR HDPE) PIPES. SEE PROFILE VIEW FOR THE INTENDED SCOPE OF WORK.**

# SANITARY SEWER LAYOUT - ALVARADO ROAD

STATION	NORTHING	EASTING	Δ OR BEARING	DISTANCE OR RADIUS	DESCRIPTION
119+22.90	2138953.45	6060009.09	Δ RT 21°44'12"	106.08'	MH 17-405-27
119+63.15	2138929.55	6060041.17	S40°18'56"E	105.07'	
121+28.65	2138803.35	6060148.24	Δ LT 85°18'39"	152.82'	MH 17-405-28
123+00.00	2138749.90	6060301.72	---	---	MATCH LINE

# PLAN

*Laurie M. Loaiza*  
 LAURIE M. LOAIZA  
 11/03/2022  
 DATE



**COASTLAND | BCCM**  
 11641 Blocker Dr, Ste 170, Auburn, CA 95603  
 530.888.9929 | coastlandcivil.com

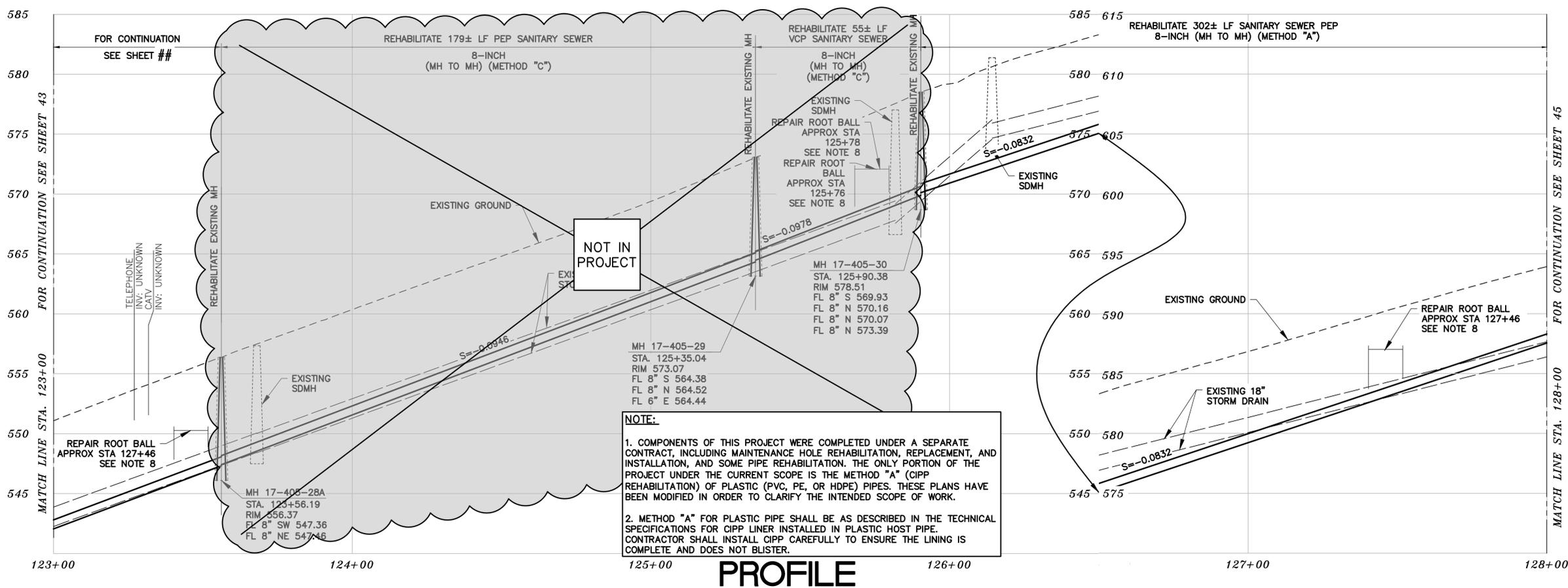
PROJECT MANAGER: _____ DATE _____	DEPICTION OF MONUMENTS: _____ DATE _____	SUBMITTED: _____ DATE _____	DESIGN: <u>ERG</u>	HORIZ. _____
SURVEY PARTY CHIEF: _____ DATE _____	WATERSHED REVIEW: _____ DATE _____	SUPERVISING CIVIL ENGINEER: _____ DATE _____	DRAWN: <u>JM/ERG</u>	VERT. _____
		APPROVED: _____ DATE _____	CHECK: <u>LML</u>	BOOK _____
		CITY ENGINEER: _____ DATE _____	AS BUILT _____	DATE 11/03/2022

**CITY OF BERKELEY**  
 DEPARTMENT OF PUBLIC WORKS

**SANITARY SEWER REHABILITATION**  
**ALVARADO ROAD**  
**PLAN AND PROFILE**

PLAN 8240  
 FILE 502-704  
 SHEET 43 OF 49

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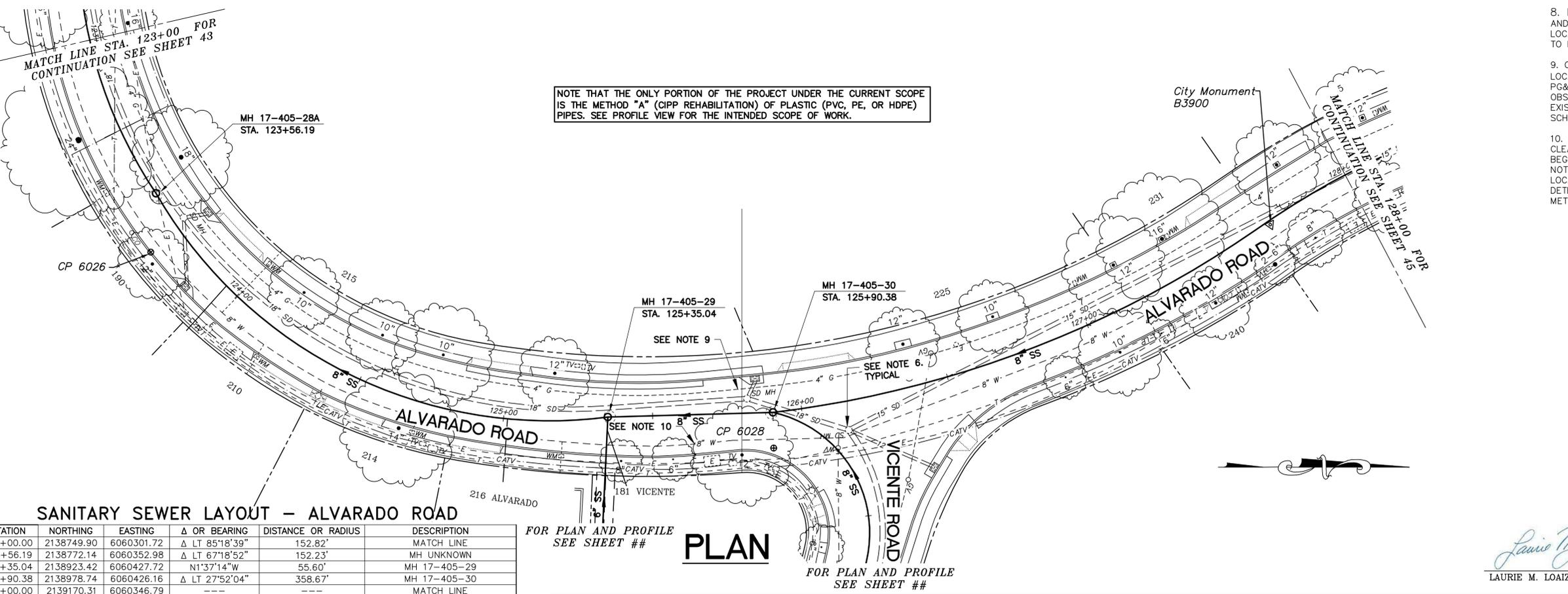


- NOTES:
- FOR GENERAL NOTES SEE SHEET 4 OF THE PLANS.
  - LOCATE, RECONSTRUCT, EXTEND AND CONNECT ACTIVE LATERALS TO NEW SEWER MAIN. REMOVE EXISTING CLEANOUTS AND PROVIDE TWO-WAY CLEANOUTS WITH RISER, FRAME, CONCRETE COLLAR AND COVER.
  - LOWER LATERALS SHALL BE HDPE SDR-17.
  - RECONSTRUCT CITY MONUMENTS DISTURBED BY SEWER INSTALLATION. REFER TO STANDARD DETAIL PLAN NOS. 8090 & 8091 OF THE SPECIFICATIONS.
  - IN ACCORDANCE WITH SPECIAL CONDITION NO. 13 IN THE SPECIAL PROVISIONS, PRIOR TO EXCAVATION, CONTRACTOR SHALL POTHOLE AND VERIFY THE LOCATION AND DEPTH OF EXISTING STORM DRAINS, SANITARY SEWER MAINS, SEWER LATERALS, AND OTHER UTILITIES OR CONDUITS TO CONFIRM CLEARANCE TO THE WORK BEING PERFORMED. IF THERE IS AN EXISTING CONCRETE SADDLE AT THE CROSSING, NOTIFY ENGINEER IMMEDIATELY PRIOR TO CONTINUING WORK. IF CLEARANCE IS LESS THAN 12 INCHES, CONTRACTOR SHALL INSTALL CONCRETE CRADLE PER CITY OF BERKELEY'S STANDARD DETAIL "CLOSE CROSSING DETAIL".
  - CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHILE WORKING IN VICINITY OF STORM DRAIN LINE AND/OR MAINTENANCE HOLE.
  - LATERALS ARE SHOWN BASED ON CCTV AND/OR SURVEYED CLEANOUT LOCATIONS. IN LOCATIONS WHERE LATERALS COULD NOT BE CONFIRMED VIA CCTV, THE LATERALS ARE SHOWN WITH A DASHED LINE. IT IS UNKNOWN WHY SOME LOTS HAVE MULTIPLE SERVICES AND PROBABLE THAT SOME LATERALS TO SUCH SUCH LOTS ARE IN FACT ABANDONED/UNSUED. HOWEVER, ALL POSSIBLE LATERALS ARE SHOWN FOR COMPLETENESS SINCE NOT ENOUGH INFORMATION WAS AVAILABLE TO DETERMINE WHICH LATERALS ARE IN USE AND WHICH LATERALS ARE NOT. CONTRACTOR SHALL IDENTIFY WHICH LATERALS ARE ACTIVE PRIOR TO BEGINNING REHABILITATION OF SEWER LINE AND RECONNECT ALL ACTIVE LATERALS TO NEW MAIN FOLLOWING REHABILITATION.
  - LOCATION OF ROOT BALL IS APPROXIMATE AND BASED ON CCTV. CONTRACTOR SHALL LOCATE AND REPAIR ROOT BALL PRIOR TO REHABILITATING SEWER MAIN.
  - CONTRACTOR SHALL WORK WITH PG&E TO LOCATE ALL PG&E FACILITIES AT PG&E'S OPTION, PG&E MAY REQUIRE A PG&E SPECIAL INSPECTOR OBSERVE ANY WORK WITHIN 3- FEET OF AN EXISTING PG&E FACILITY. CONTRACTOR SHALL SCHEDULE WORK ACCORDINGLY.
  - CONTRACTOR SHALL VERIFY THAT EDMUD CLEARANCE GUIDELINES ARE SATISFIED PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF, AFTER LOCATING UNDERGROUND UTILITIES, CONTRACTOR DETERMINES THAT EDMUD GUIDELINES ARE NOT MET.

**NOTE:**

- COMPONENTS OF THIS PROJECT WERE COMPLETED UNDER A SEPARATE CONTRACT, INCLUDING MAINTENANCE HOLE REHABILITATION, REPLACEMENT, AND INSTALLATION, AND SOME PIPE REHABILITATION. THE ONLY PORTION OF THE PROJECT UNDER THE CURRENT SCOPE IS THE METHOD "A" (CIPP REHABILITATION) OF PLASTIC (PVC, PE, OR HDPE) PIPES. THESE PLANS HAVE BEEN MODIFIED IN ORDER TO CLARIFY THE INTENDED SCOPE OF WORK.
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**PROFILE**



**NOTE THAT THE ONLY PORTION OF THE PROJECT UNDER THE CURRENT SCOPE IS THE METHOD "A" (CIPP REHABILITATION) OF PLASTIC (PVC, PE, OR HDPE) PIPES. SEE PROFILE VIEW FOR THE INTENDED SCOPE OF WORK.**

**SANITARY SEWER LAYOUT - ALVARADO ROAD**

STATION	NORTHING	EASTING	Δ OR BEARING	DISTANCE OR RADIUS	DESCRIPTION
123+00.00	2138749.90	6060301.72	Δ LT 85°18'39"	152.82'	MATCH LINE
123+56.19	2138772.14	6060352.98	Δ LT 67°18'52"	152.23'	MH UNKNOWN
125+35.04	2138923.42	6060427.72	N1°37'14"W	55.60'	MH 17-405-29
125+90.38	2138978.74	6060426.16	Δ LT 27°52'04"	358.67'	MH 17-405-30
128+00.00	2139170.31	6060346.79	---	---	MATCH LINE

**PLAN**

**COASTLAND DCCM**  
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 530.888.9929 | coastlandcivil.com

PROJECT MANAGER: \_\_\_\_\_ DATE: \_\_\_\_\_  
 DEPICTION OF MONUMENTS: \_\_\_\_\_ DATE: \_\_\_\_\_  
 SURVEY PARTY CHIEF: \_\_\_\_\_ DATE: \_\_\_\_\_  
 WATERSHED REVIEW: \_\_\_\_\_ DATE: \_\_\_\_\_

SUBMITTED: \_\_\_\_\_ DATE: \_\_\_\_\_  
 SUPERVISING CIVIL ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_  
 APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CITY ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_

DESIGN: \_\_\_\_\_ DATE: \_\_\_\_\_  
 DRAWN: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CHECK: \_\_\_\_\_ DATE: \_\_\_\_\_  
 AS BUILT: \_\_\_\_\_ DATE: \_\_\_\_\_

*Laurie M. Loaza*  
 LAURIE M. LOAZA  
 11/03/2022  
 DATE

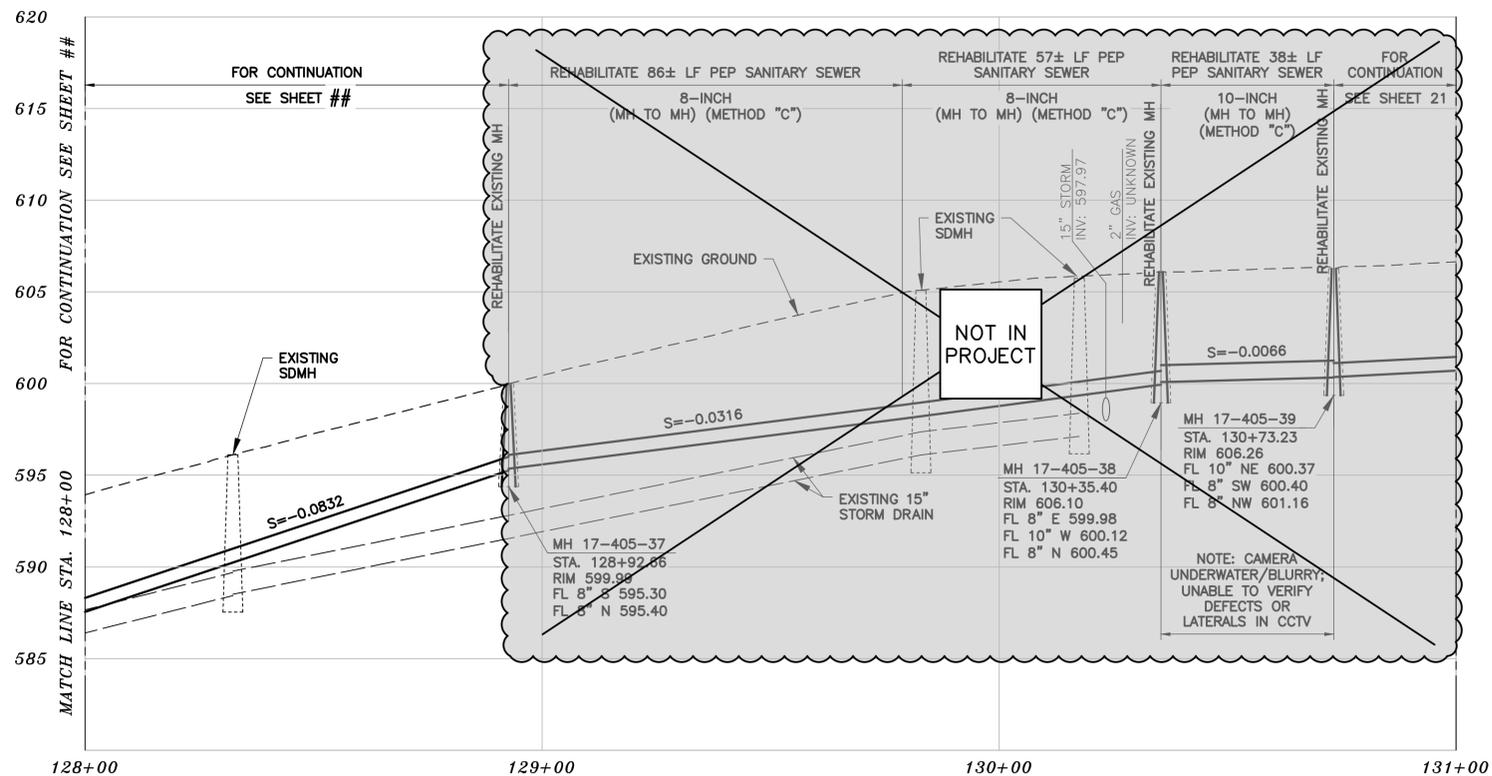


**CITY OF BERKELEY**  
 DEPARTMENT OF PUBLIC WORKS

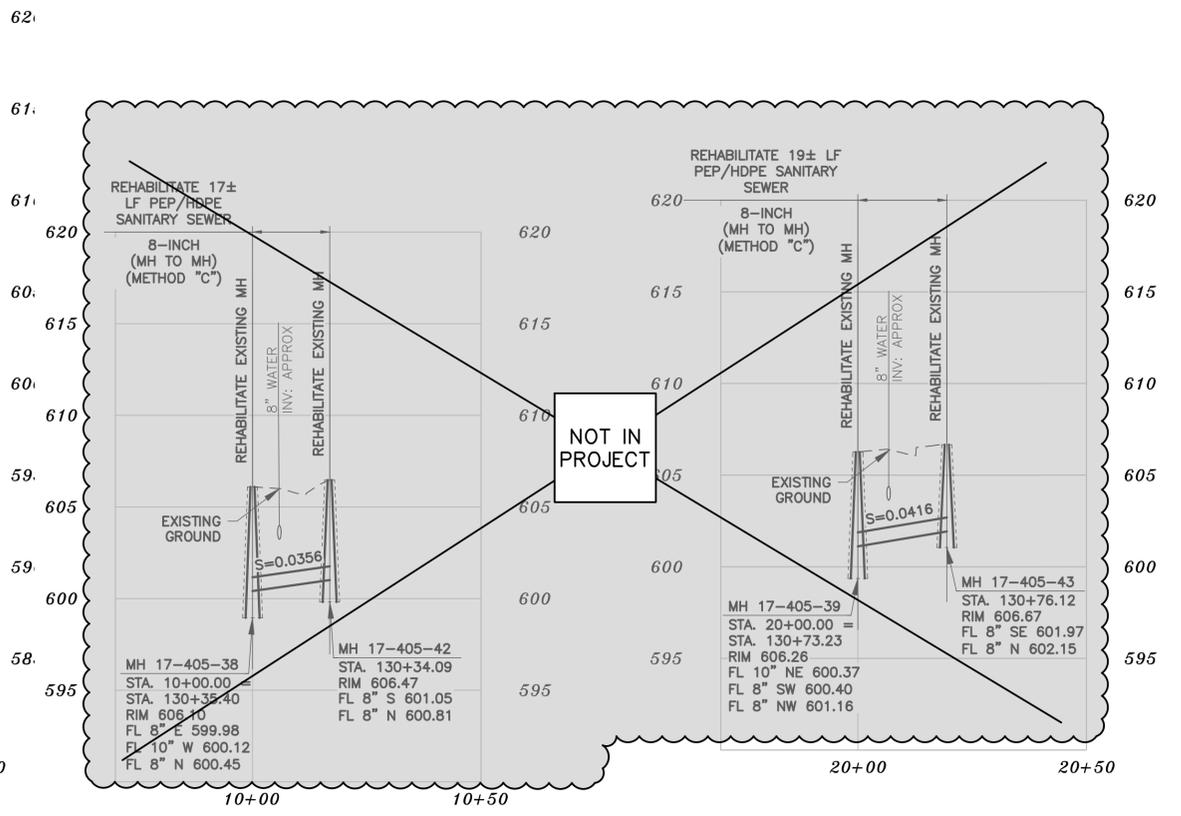
**SANITARY SEWER REHABILITATION**  
**ALVARADO ROAD**  
**PLAN AND PROFILE**

PLAN 8240  
 FILE 502-704  
 SHEET 44 OF 49

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**PROFILE**

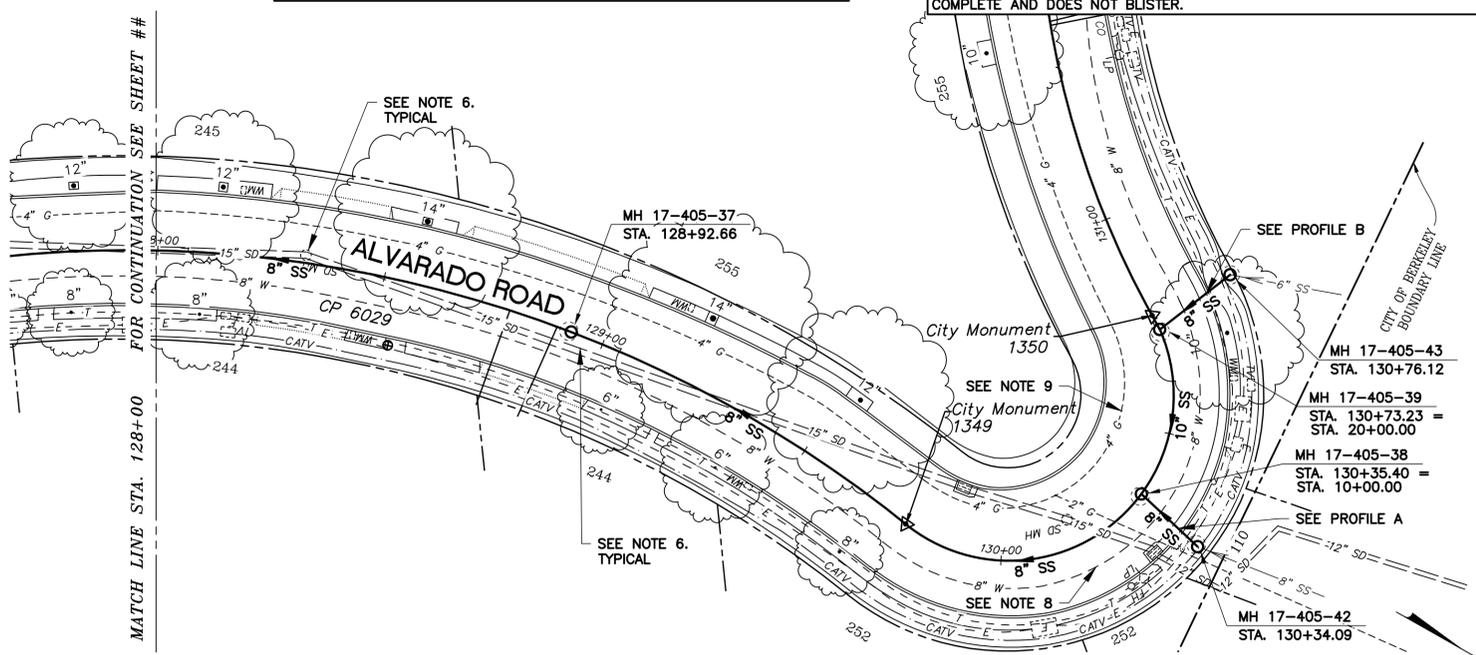


**PROFILE A**

**PROFILE B**

**NOTE:**  
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**PLAN**

- NOTES:**
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  - RECONSTRUCT CITY MONUMENTS DISTURBED BY SEWER INSTALLATION. REFER TO STANDARD DETAIL PLAN NOS. 8090 & 8091 OF THE SPECIFICATIONS.
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  - CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHILE WORKING IN VICINITY OF EXISTING UTILITIES. TYPICAL.
  - LATERALS ARE SHOWN BASED ON CCTV AND/OR SURVEYED CLEANOUT LOCATIONS. IN LOCATIONS WHERE LATERALS COULD NOT BE CONFIRMED VIA CCTV, THE LATERALS ARE SHOWN WITH A DASHED LINE. IT IS UNKNOWN WHY SOME LOTS HAVE MULTIPLE SERVICES AND PROBABLE THAT SOME LATERALS TO SUCH SUCH LOTS ARE IN FACT ABANDONED/UNUSED. HOWEVER, ALL POSSIBLE LATERALS ARE SHOWN FOR COMPLETENESS SINCE NOT ENOUGH INFORMATION WAS AVAILABLE TO DETERMINE WHICH LATERALS ARE IN USE AND WHICH LATERALS ARE NOT. CONTRACTOR SHALL IDENTIFY WHICH LATERALS ARE ACTIVE PRIOR TO BEGINNING REHABILITATION OF SEWER LINE AND RECONNECT ALL ACTIVE LATERALS TO NEW MAIN FOLLOWING REHABILITATION.
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**SANITARY SEWER LAYOUT - ALVARADO ROAD**

STATION	NORTHING	EASTING	Δ OR BEARING	DISTANCE OR RADIUS	DESCRIPTION
128+00.00	2139170.31	6060346.79	Δ RT 45°04'30"	272.02'	MATCH LINE
128+92.66	2139257.96	6060318.16	Δ RT 45°04'30"	272.02'	MH 17-405-37
130+35.40	2139384.06	6060288.14	Δ LT 150°14'28"	36.00'	MH 17-405-38
130+73.23	2139370.06	6060254.85	Δ RT 114°56'45"	199.78'	MH 17-405-39
131+00.00	2139348.05	6060239.64	---	---	MATCH LINE

**COASTLAND | DCCM**  
 11641 Blocker Dr, Ste 170, Auburn, CA 95603  
 530.888.9929 | coastlandcivil.com

PROJECT MANAGER: \_\_\_\_\_ DATE \_\_\_\_\_  
 DEPICTION OF MONUMENTS: \_\_\_\_\_ DATE \_\_\_\_\_  
 SURVEY PARTY CHIEF \_\_\_\_\_  
 WATERSHED REVIEW: \_\_\_\_\_ DATE \_\_\_\_\_

SUBMITTED: \_\_\_\_\_ DATE \_\_\_\_\_  
 R.C.E. \_\_\_\_\_  
 EXP. \_\_\_\_\_  
 SUPERVISING CIVIL ENGINEER \_\_\_\_\_  
 APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
 R.C.E. \_\_\_\_\_  
 EXP. \_\_\_\_\_  
 CITY ENGINEER \_\_\_\_\_

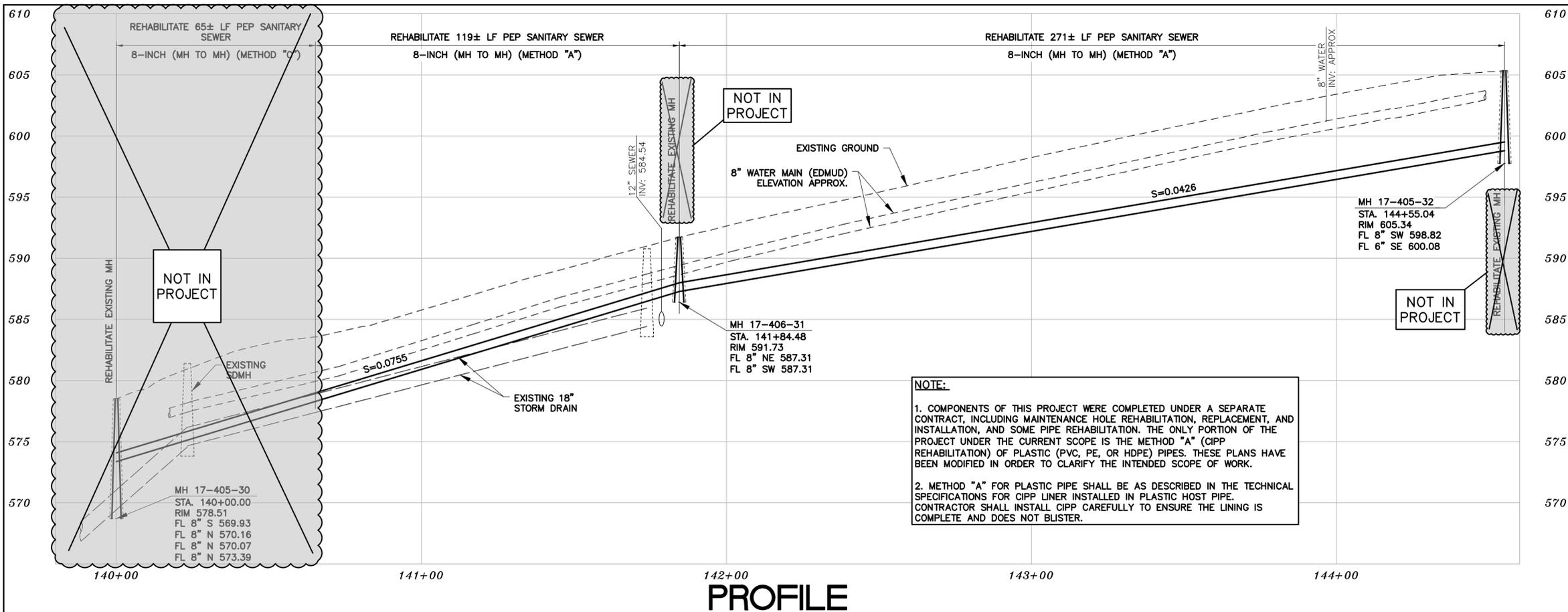
CITY OF BERKELEY  
 DEPARTMENT OF PUBLIC WORKS

**SANITARY SEWER REHABILITATION  
 ALVARADO ROAD  
 PLAN AND PROFILE**

PLAN 8240  
 FILE 502-704  
 SHEET 45 OF 34

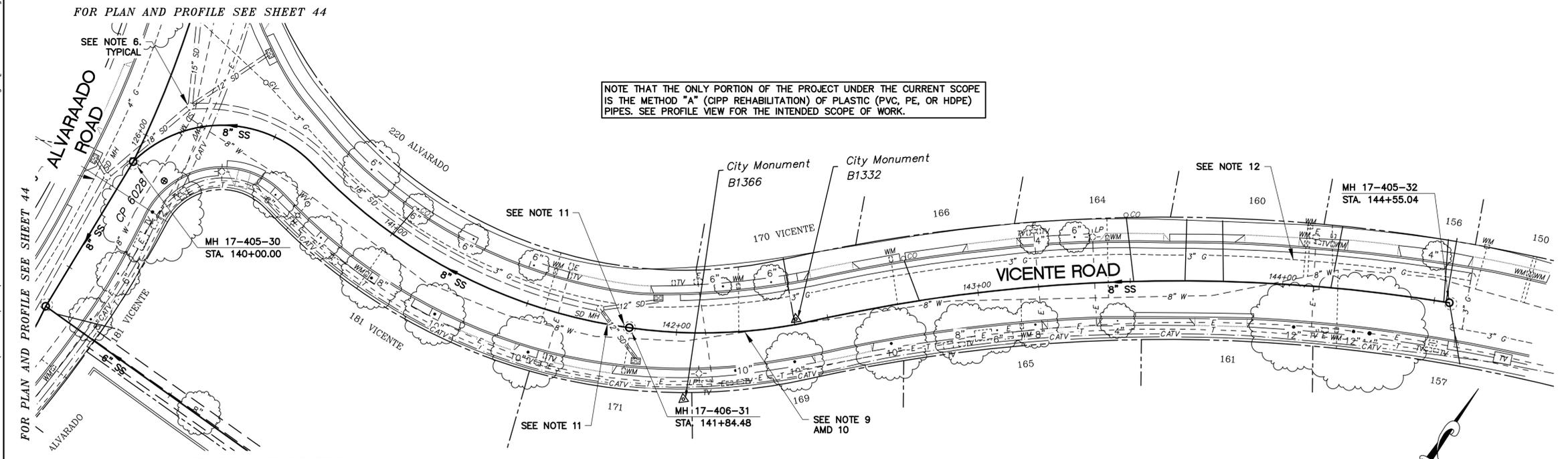
*Laurie M. Loaiza*  
 LAURIE M. LOAIZA  
 No. C65951  
 11/03/2022  
 DATE





### PROFILE

- NOTES:**
- FOR GENERAL NOTES SEE SHEET 4 OF THE PLANS.
  - LOCATE, RECONSTRUCT, EXTEND AND CONNECT ACTIVE LATERALS TO NEW SEWER MAIN. REMOVE EXISTING CLEANOUTS AND PROVIDE TWO-WAY CLEANOUTS WITH RISER, FRAME, CONCRETE COLLAR AND COVER.
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  - CONTRACTOR SHALL EXERCISE CAUTION IN THE VICINITY OF EXISTING MAINTENANCE HOLE AND STORM DRAIN PIPE CROSSING.
  - CONTRACTOR SHALL WORK WITH PG&E TO LOCATE ALL PG&E FACILITIES AT PG&E'S OPTION, PG&E MAY REQUIRE A PG&E SPECIAL INSPECTOR OBSERVE ANY WORK WITHIN 3'-FEET OF AN EXISTING PG&E FACILITY. CONTRACTOR SHALL SCHEDULE WORK ACCORDINGLY.



### PLAN

#### SANITARY SEWER LAYOUT - VICENTE ROAD

STATION	NORTHING	EASTING	Δ OR BEARING	RADIUS	DESCRIPTION
140+00.00	2138978.74	6060426.16	Δ RT 46°50'08"	41.66'	MH 17-405-30
140+65.28	2139010.01	6060475.91	Δ LT 39°10'50"	174.32'	
141+84.48	2139021.40	6060592.24	Δ LT 18°37'10"	169.40'	MH 17-405-31
142+39.53	6060637.68	2139052.05	Δ RT 22°13'35"	555.55'	
144+55.04	2139174.14	6060813.63	---	---	MH 17-405-32

**COASTLAND DCCM**  
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PROJECT MANAGER: _____ DATE _____	DEPICTION OF MONUMENTS: _____ DATE _____	SUBMITTED: _____ DATE _____	DESIGN: _____ ERG _____	HORIZ. _____
SURVEY PARTY CHIEF: _____ DATE _____	WATERSHED REVIEW: _____ DATE _____	SUPERVISING CIVIL ENGINEER: _____ DATE _____	DRAWN: _____ JM/ERG _____	VERT. _____
CITY ENGINEER: _____ DATE _____		APPROVED: _____ DATE _____	CHECK: _____ LML _____	BOOK _____
			AS BUILT _____	DATE 11/03/2022

**CITY OF BERKELEY**  
 DEPARTMENT OF PUBLIC WORKS

**SANITARY SEWER REHABILITATION**  
**ALVARADO ROAD**  
**PLAN AND PROFILE**

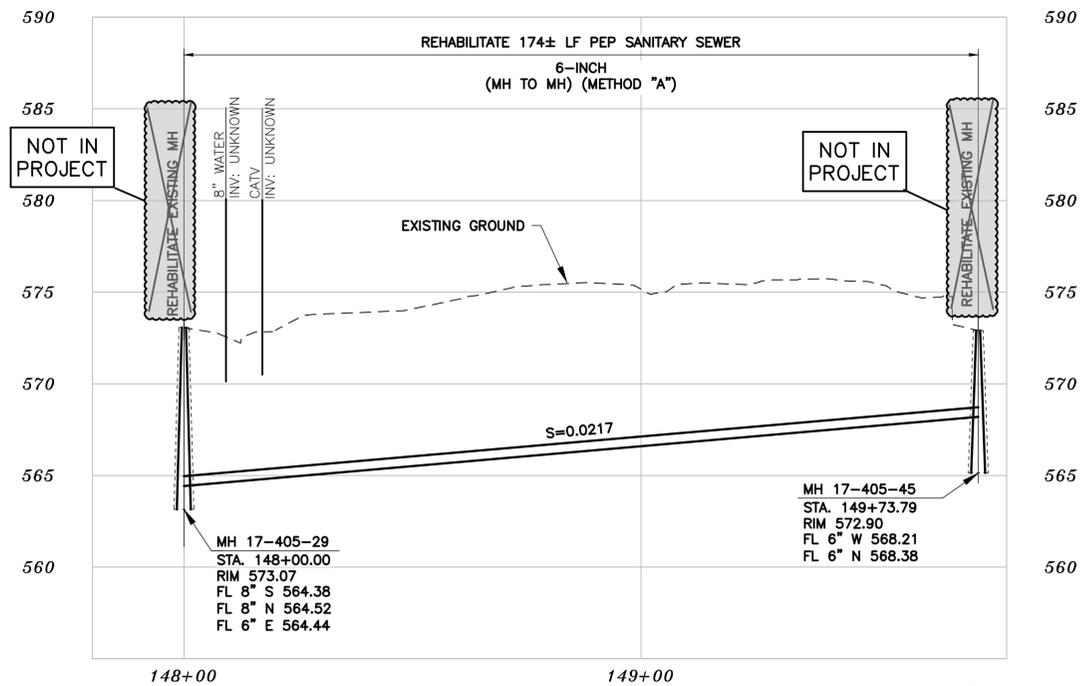
PLAN 8240  
 FILE 502-704  
 SHEET 46 OF 49

*Laurie M. Loazia*  
 LAURIE M. LOAZIA  
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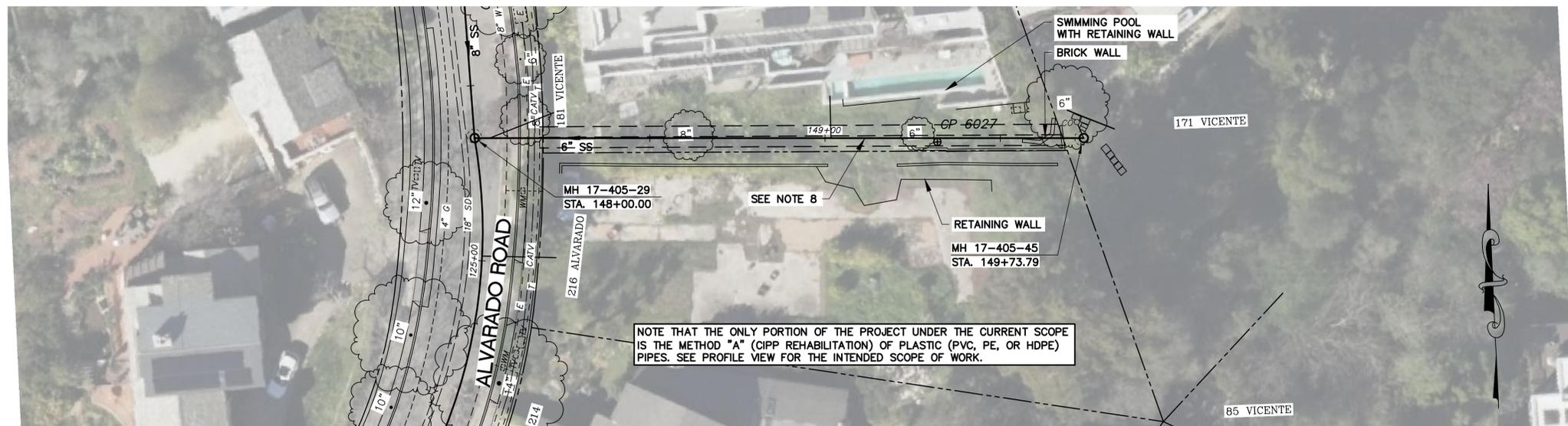


**NOTE:**

1. COMPONENTS OF THIS PROJECT WERE COMPLETED UNDER A SEPARATE CONTRACT, INCLUDING MAINTENANCE HOLE REHABILITATION, REPLACEMENT, AND INSTALLATION, AND SOME PIPE REHABILITATION. THE ONLY PORTION OF THE PROJECT UNDER THE CURRENT SCOPE IS THE METHOD "A" (CIPP REHABILITATION) OF PLASTIC (PVC, PE, OR HDPE) PIPES. THESE PLANS HAVE BEEN MODIFIED IN ORDER TO CLARIFY THE INTENDED SCOPE OF WORK.
2. METHOD "A" FOR PLASTIC PIPE SHALL BE AS DESCRIBED IN THE TECHNICAL SPECIFICATIONS FOR CIPP LINER INSTALLED IN PLASTIC HOST PIPE. CONTRACTOR SHALL INSTALL CIPP CAREFULLY TO ENSURE THE LINING IS COMPLETE AND DOES NOT BLISTER.

## PROFILE

FOR PLAN AND PROFILE  
SEE SHEET 45



FOR PLAN AND PROFILE  
SEE SHEET 45

## PLAN

- NOTES:**
1. FOR GENERAL NOTES SEE SHEET 4 OF THE PLANS.
  2. LOCATE, RECONSTRUCT, EXTEND AND CONNECT ACTIVE LATERALS TO NEW SEWER MAIN. REMOVE EXISTING CLEANOUTS AND PROVIDE TWO-WAY CLEANOUTS WITH RISER, FRAME, CONCRETE COLLAR AND COVER.
  3. LOWER LATERALS SHALL BE HDPE SDR-17.
  4. RECONSTRUCT CITY MONUMENTS DISTURBED BY SEWER INSTALLATION. REFER TO STANDARD DETAIL PLAN NOS. 8090 & 8091 OF THE SPECIFICATIONS.
  5. IN ACCORDANCE WITH SPECIAL CONDITION NO. 13 IN THE SPECIAL PROVISIONS, PRIOR TO EXCAVATION, CONTRACTOR SHALL POTHOLE AND VERIFY THE LOCATION AND DEPTH OF EXISTING STORM DRAINS, SANITARY SEWER MAINS, SEWER LATERALS, AND OTHER UTILITIES OR CONDUITS TO CONFIRM CLEARANCE TO THE WORK BEING PERFORMED. IF THERE IS AN EXISTING CONCRETE SADDLE AT THE CROSSING, NOTIFY ENGINEER IMMEDIATELY PRIOR TO CONTINUING WORK. IF CLEARANCE IS LESS THAN 12 INCHES, CONTRACTOR SHALL INSTALL CONCRETE CRADLE PER CITY OF BERKELEY'S STANDARD DETAIL "CLOSE CROSSING DETAIL".
  6. CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHILE WORKING IN VICINITY OF EXISTING UTILITIES. TYPICAL.
  7. LATERALS ARE SHOWN BASED ON CCTV AND/OR SURVEYED CLEANOUT LOCATIONS. IN LOCATIONS WHERE LATERALS COULD NOT BE CONFIRMED VIA CCTV, THE LATERALS ARE SHOWN WITH A DASHED LINE. IT IS UNKNOWN WHY SOME LOTS HAVE MULTIPLE SERVICES AND PROBABLE THAT SOME LATERALS TO SUCH SUCH LOTS ARE IN FACT ABANDONED/UNSUED. HOWEVER, ALL POSSIBLE LATERALS ARE SHOWN FOR COMPLETENESS SINCE NOT ENOUGH INFORMATION WAS AVAILABLE TO DETERMINE WHICH LATERALS ARE IN USE AND WHICH LATERALS ARE NOT. CONTRACTOR SHALL IDENTIFY WHICH LATERALS ARE ACTIVE PRIOR TO BEGINNING REHABILITATION OF SEWER LINE AND RECONNECT ALL ACTIVE LATERALS TO NEW MAIN FOLLOWING REHABILITATION.
  8. PIPE APPEARS TO BE LOCATED BETWEEN TWO RETAINING WALLS. CONTRACTOR TO POTHOLE TO CONFIRM PIPE LOCATION WILL NOT COMPROMISE EXISTING RETAINING WALLS.

### SANITARY SEWER LAYOUT - ALVARADO ROAD BACKLINE

STATION	NORTHING	EASTING	BEARING	DISTANCE	DESCRIPTION
148+00.00	2138923.42	6060427.72	N87°18'51"W	173.83'	MH 17-405-29
149+73.79	2138915.28	6060601.32	---	---	MH 17-405-45

**COASTLAND | DCCM**  
11641 Blocker Dr, Ste 170, Auburn, CA 95603  
530.888.9929 | coastlandcivil.com

PROJECT MANAGER: _____ DATE _____	DEPICTION OF MONUMENTS: _____ DATE _____	SUBMITTED: _____ DATE _____	DESIGN: <u>ERG</u>	HORIZ. _____
SURVEY PARTY CHIEF: _____	WATERSHED REVIEW: _____ DATE _____	SUPERVISING CIVIL ENGINEER: _____	DRAWN: <u>JM/ERG</u>	VERT. _____
		APPROVED: _____	CHECK: <u>LML</u>	BOOK _____
		CITY ENGINEER: _____	AS BUILT: _____	DATE: 11/03/2022

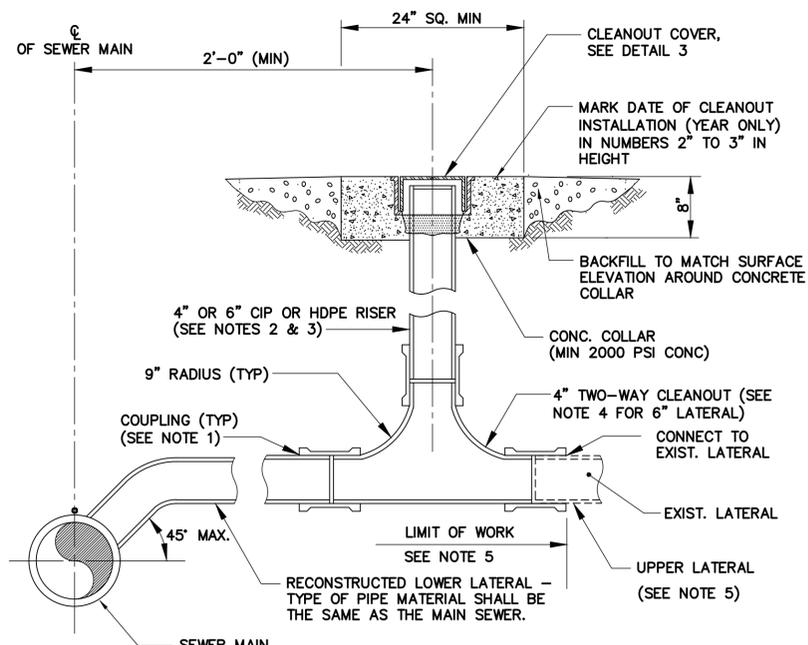
CITY OF BERKELEY  
DEPARTMENT OF PUBLIC WORKS

SANITARY SEWER REHABILITATION  
ALVARADO ROAD  
PLAN AND PROFILE

PLAN 8240  
FILE 502-704  
SHEET 47 OF 49

*Laurie M. Loaiza*  
LAURIE M. LOAIZA  
No. C65951  
11/03/2022  
DATE



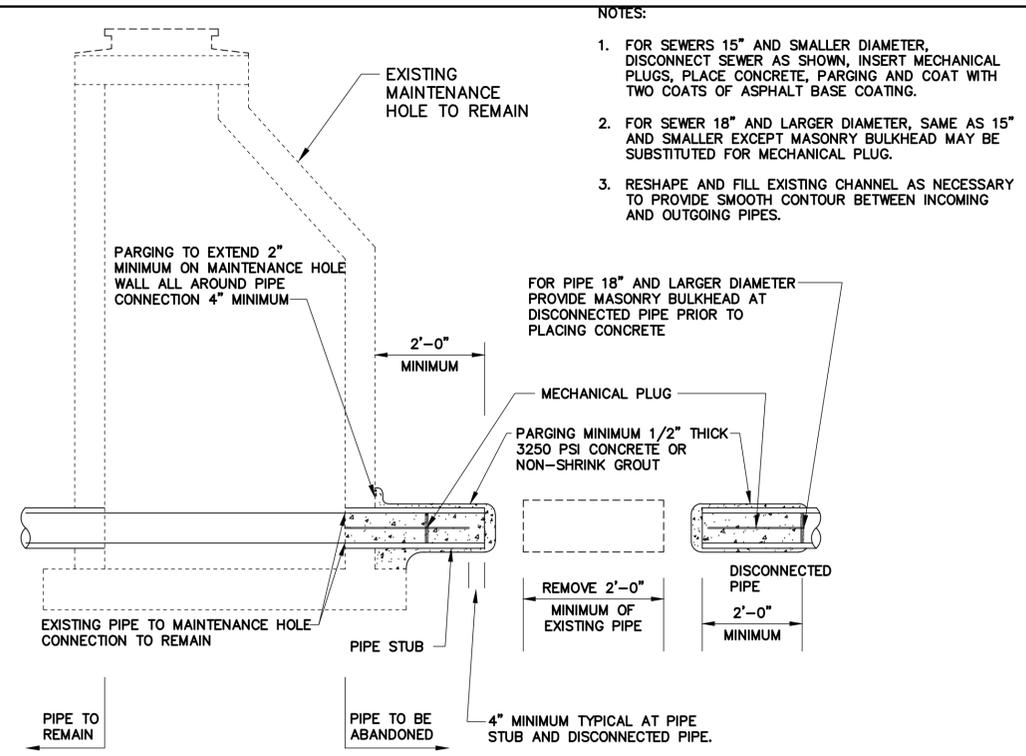


- NOTES:**
1. COUPLINGS SHALL BE TYPE 'D' JOINTS W/316 STAINLESS STEEL BANDS.
  2. RISER SHALL BE VERTICAL.
  3. RISER SHALL BE CAST IRON IN DRIVEWAY.
  4. FOR 6" LATERAL INSTALL 45° WYE (DOWNSTREAM DIRECTION).
  5. FOR SEWER MAIN IN THE BACKLINE SEWER AREA, INSTALL NEW TWO WAY CLEANOUT 5 FT. MAXIMUM FROM THE SEWER MAIN. ADJUST THE CLEANOUT LOCATION AS NEEDED TO FIT THE SITE CONDITION.

SEWER MAIN IN STREET AREA  
LATERAL RECONSTRUCTION

DETAIL 1  
VAR

NOT TO SCALE

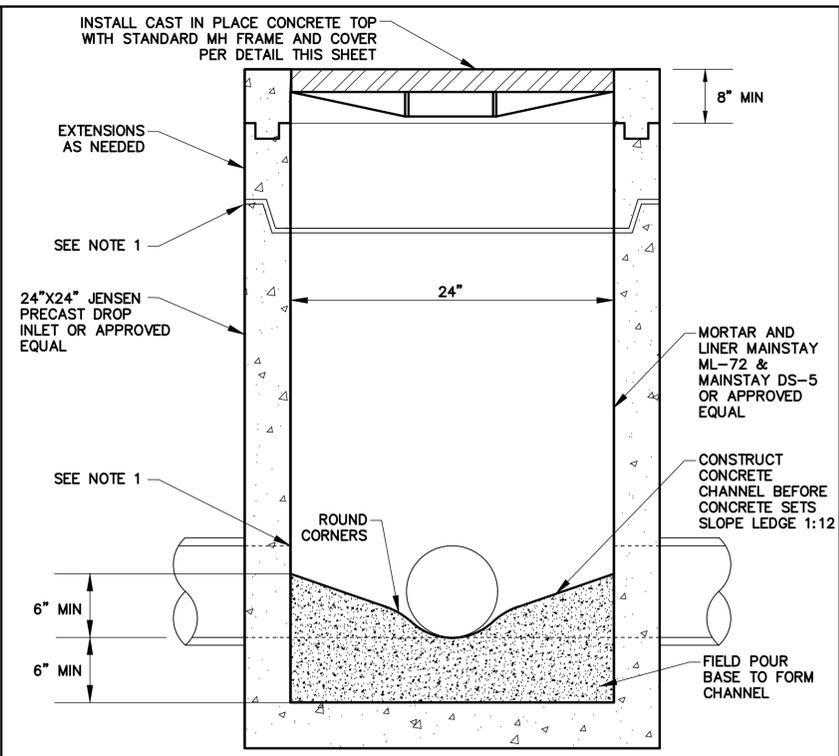


- NOTES:**
1. FOR SEWERS 15" AND SMALLER DIAMETER, DISCONNECT SEWER AS SHOWN, INSERT MECHANICAL PLUGS, PLACE CONCRETE, PARING AND COAT WITH TWO COATS OF ASPHALT BASE COATING.
  2. FOR SEWER 18" AND LARGER DIAMETER, SAME AS 15" AND SMALLER EXCEPT MASONRY BULKHEAD MAY BE SUBSTITUTED FOR MECHANICAL PLUG.
  3. RESHAPE AND FILL EXISTING CHANNEL AS NECESSARY TO PROVIDE SMOOTH CONTOUR BETWEEN INCOMING AND OUTGOING PIPES.

ABANDONMENT OF PIPE AT  
SANITARY SEWER MAINTENANCE HOLE

DETAIL 3  
VAR

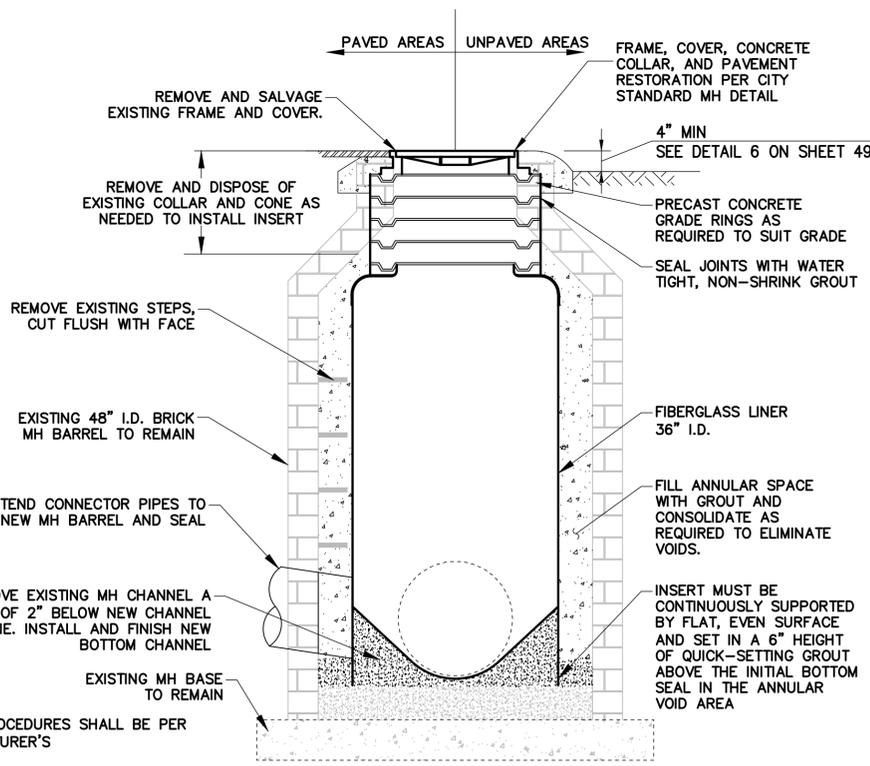
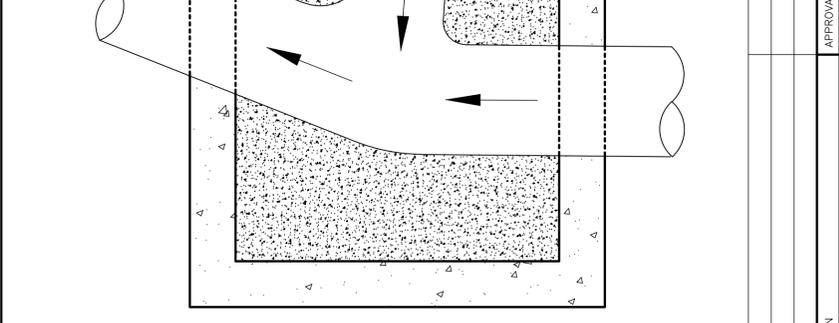
NOT TO SCALE



JUNCTION BOX BASE

DETAIL 4

NOT TO SCALE



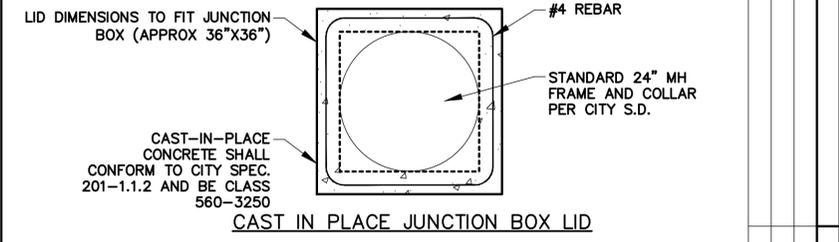
FRP UFR INSERT IN  
EXISTING BRICK MH DETAIL

DETAIL 5

NOT TO SCALE

- NOTES:**
1. LINER AND INSTALLATION PROCEDURES SHALL BE PER ASTM D3753 AND MANUFACTURER'S RECOMMENDATIONS.
  2. FIELD POUR AND RECONSTRUCT CONCRETE CHANNEL.
  3. SEAL JOINTS AND PIPE CONNECTIONS WITH WATER-TIGHT, NON-SHIRNK GROUT.
  4. CONTRACTOR SHALL THOROUGHLY CLEAN WALLS OF EXISTING BRICK MH PRIOR TO INSTALLATION OF LINER.
  5. APPLY MAINSTAY ML-72 & MAINSTAY DS-5 OR APPROVED EQUAL TO INTERIOR CONCRETE SURFACES

- NOTES:**
1. IF LINER IS APPLIED BEFORE JUNCTION BOX INSTALLATION, SEAL ALL JOINTS AND PIPE CONNECTIONS WITH WATER TIGHT, NON-SHIRNK GROUT.



CAST IN PLACE JUNCTION BOX LID

SEWER JUNCTION BOX

DETAIL 4

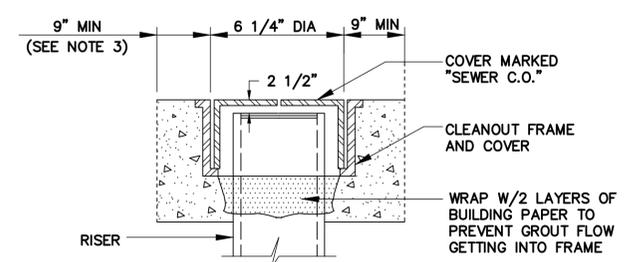
NOT TO SCALE

*Laurie M. Loaiza*  
LAURIE M. LOAIZA

11/03/2022  
DATE



- NOTES:**
1. SEE SPECIFICATIONS FOR ADDITIONAL STANDARD DETAILS.



CLEANOUT COVER (4" DIA.)

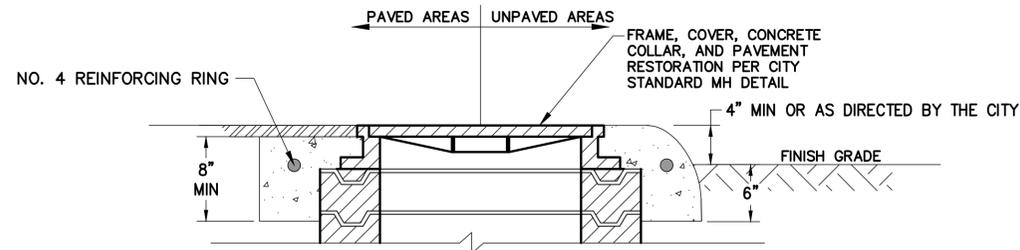
DETAIL 2  
VAR

NOT TO SCALE

- NOTES:**
1. LOCATION AS SHOWN ON DETAIL 2  
VAR OR AS SPECIFIED.
  2. WHEN RISER IS NOT SURROUNDED BY SIDEWALK, A 2'X2'X8", 2000 PSI CONCRETE COLLAR SHALL BE INSTALLED.
  3. EXIST SIDEWALK SHALL BE NEATLY SAWN TO A STRAIGHT AND SQUARE EDGE BEFORE 2000 PSI CONCRETE PATCH IS INSTALLED AROUND FRAME.

PROJECT MANAGER: _____ DATE _____	DEPICTION OF MONUMENTS: _____ DATE _____	SUBMITTED: _____ DATE _____	DESIGN: _____	HORIZ. _____
SURVEY PARTY CHIEF: _____ DATE _____	WATERSHED REVIEW: _____ DATE _____	SUPERVISING CIVIL ENGINEER: _____ DATE _____	DRAWN: <u>JM/ERG</u>	VERT. _____
APPROVED: _____ DATE _____	CITY ENGINEER: _____ DATE _____	AS BUILT: _____	CHECK: <u>LML</u>	BOOK _____
FOR REDUCED PLANS - ORIGINAL SCALE IS IN INCHES			DATE: 11/03/2022	DATE: 11/03/2022

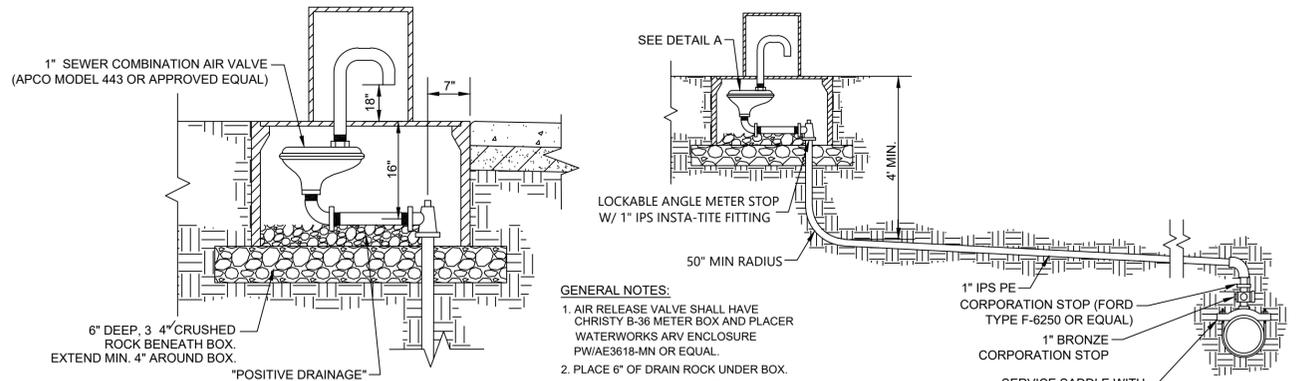
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SEWER MH FRAME AND COVER IN PAVED VS UNPAVED AREA

DETAIL 6 VAR NOT TO SCALE

- NOTES:
- REFER TO CITY STANDARD DETAIL FOR PRECAST MH ECCENTRIC CONE FOR MATERIALS AND ADDITIONAL INFORMATION.



DETAIL A N.T.S.

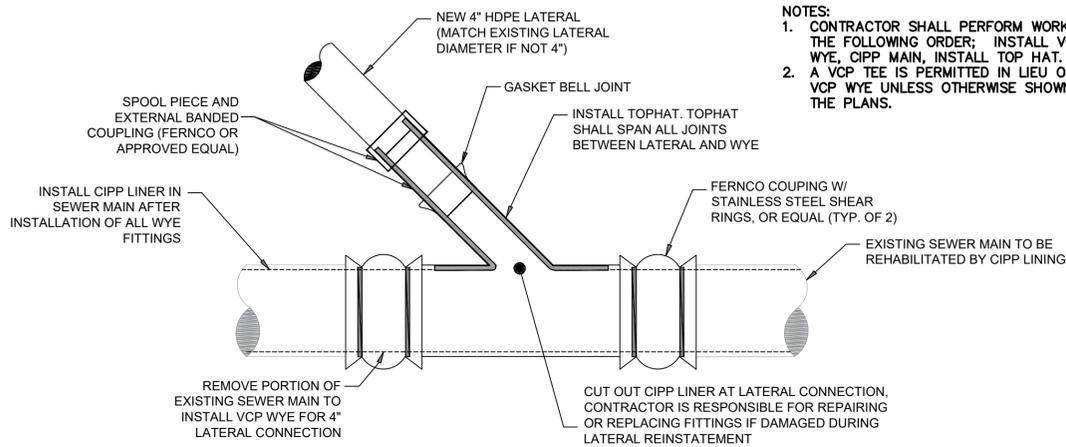
GENERAL NOTES:

- AIR RELEASE VALVE SHALL HAVE CHRISTY B-36 METER BOX AND PLACER WATERWORKS ARV ENCLOSURE PW/AE3618-MM OR EQUAL.
- PLACE 6" OF DRAIN ROCK UNDER BOX.
- ALL PIPING TO BE PE. FITTINGS & NIPPLES TO BE BRASS. ABOVE GROUND ANTI-SIPHON PIPING MUST BE SEALED AND BUILT IN PVC SCH80.
- 1" POLYETHYLENE PIPE SHALL BE IRON PIPE SIZE (IPS) AND CONFORM TO ASTM D-2239, PE3408 WITH A PRESSURE RATING OF 200 PSI AND A SDR OF 7.

- 1" IPS PE CORPORATION STOP (FORD TYPE F-6250 OR EQUAL)
- 1" BRONZE CORPORATION STOP
- SERVICE SADDLE WITH DOUBLE SS STRAPS AND 1" NPT TAP SMITH-BLAIR 372 OR APPROVED EQUAL

SEWER FORCE MAIN AIR RELEASE VALVE

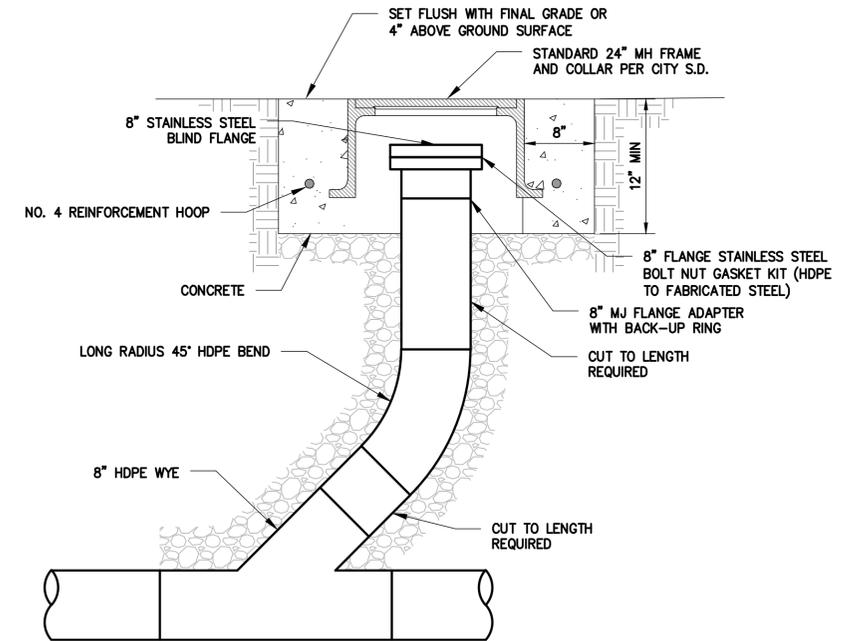
DETAIL 9 VAR NOT TO SCALE



OPEN CUT LATERAL WITH VCP WYE ON 6" DIAMETER CIPP LINED MAIN

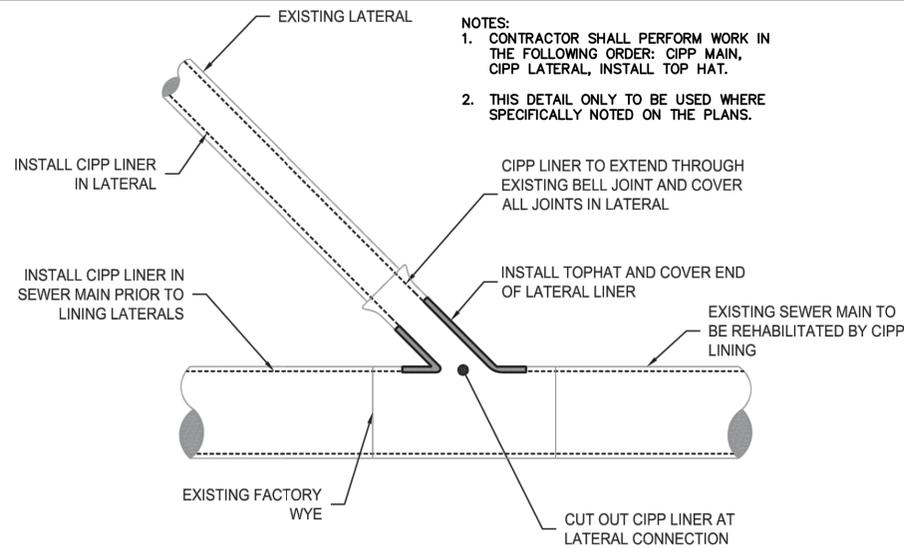
DETAIL 7 VAR NOT TO SCALE

- NOTES:
- CONTRACTOR SHALL PERFORM WORK IN THE FOLLOWING ORDER: INSTALL VCP WYE, CIPP MAIN, INSTALL TOP HAT.
  - A VCP TEE IS PERMITTED IN LIEU OF A VCP WYE UNLESS OTHERWISE SHOWN ON THE PLANS.



FORCE MAIN ACCESS WYE

DETAIL 10 VAR NOT TO SCALE

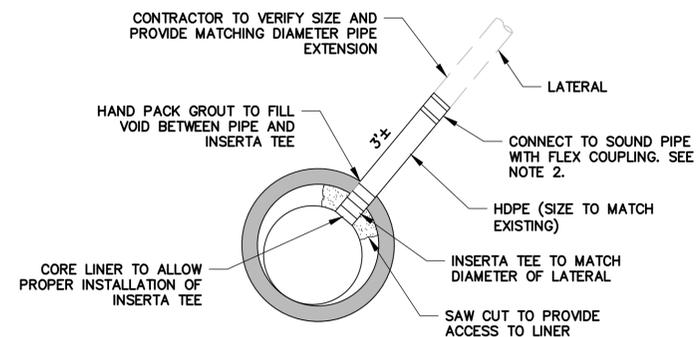


CIPP LINED OR PVC LATERAL WITH TOPHAT ON CIPP LINED MAIN

DETAIL 8 VAR NOT TO SCALE

- NOTES:
- CONTRACTOR SHALL PERFORM WORK IN THE FOLLOWING ORDER: CIPP MAIN, CIPP LATERAL, INSTALL TOP HAT.
  - THIS DETAIL ONLY TO BE USED WHERE SPECIFICALLY NOTED ON THE PLANS.

- NOTES:
- INSERTA TEE SHALL BE DESIGNED AND MANUFACTURED SPECIFICALLY FOR USE ON CIPP LINER.
  - FLEX COUPLING SHALL BE BANDED RUBBER COUPLING WITH FOUR (4) CLAMPS AND TYPE 316 STAINLESS STEEL SHEAR BANDS SUCH AS FERNCO 5000 REPAIR COUPLING SERIES OR MISSION RUBBER ADJUSTABLE REPAIR COUPLING, OR EQUAL.



LATERAL CONNECTION TO REHABILITATED PIPE

DETAIL 11 VAR NOT TO SCALE

*Laurie M. Loaiza*  
 LAURIE M. LOAIZA  
 11/03/2022  
 DATE  
 REGISTERED PROFESSIONAL ENGINEER  
 No. C65951  
 CIVIL  
 STATE OF CALIFORNIA

PROJECT MANAGER: _____	DATE _____	DEPICTION OF MONUMENTS: _____	DATE _____	SUBMITTED: _____	DATE _____	DESIGN: <u>ERG</u>	HORIZ. _____
_____	_____	SURVEY PARTY CHIEF: _____	DATE _____	SUPERVISING CIVIL ENGINEER: _____	R.C.E. _____	DRAWN: <u>JM/ERG</u>	VERT. _____
_____	_____	WATERSHED REVIEW: _____	DATE _____	APPROVED: _____	R.C.E. _____	CHECK: <u>LML</u>	BOOK _____
_____	_____	_____	_____	CITY ENGINEER: _____	EXP. _____	AS BUILT: _____	DATE: 11/03/2022

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