

December 8, 2022

CITY OF BERKELEY SANITARY SEWER REHABILITATION PROJECT PARNASSUS ROAD, ET AL.

SPECIFICATION NO. 23-11548-C ADDENDUM NO. 2

Dear Bidder:

The City of Berkeley has revisions, and/or additions on the following Plan Sheets in the Contract Plans for Specification No. 23-11548-C, Sanitary Sewer Rehabilitation Project – Parnassus Road, et al.:

Plan Sheet Title	Plan Sheet Number	Notes
1005 CRESTON RD	Sheet 10 of 58	Revision 1
LATHAM LN	Sheet 11 of 58	Revision 1
1010 WILDCAT CANYON RD	Sheet 14 of 58	Revision 1
1101 MILLER AVE	Sheet 16 of 58	Revision 1
40 STEVENSON AVE	Sheet 19 of 58	Revision 1
1169 MILLER AVE	Sheet 20 of 58	Revision 1
AJAX PL	Sheet 27 of 58	Revision 1
1462 CAMPUS DR	Sheet 36 of 58	Revision 1
10 SUMMIT LN	Sheet 39 of 58	Revision 1
1530 SUMMIT RD	Sheet 45 of 58	Revision 1
CAMPUS DR – 1	Sheet 50 of 58	Revision 1
3082 BUENA VISTA WAY	Sheet 52 of 58	Revision 1
96 TAMALPAIS RD	Sheet 54 of 58	Revision 1
LA LOMA AVE 2	Sheet 57 of 58	Revision 1

The following item(s) in the Contract Specifications have revisions:

Item No. 1 – Bidders Proposal, page A9-A11.

Bid Item No. 9b, "Remove Existing Structure and Construct Lamphole or Cleanout, All Depths," estimated **quantity is revised** from an 2 EA to a revised quantity of 4 EA.

Bid Item No. 11b, "Rehabilitation by Method "B" Pipe Splitting or Other Comparable Method for Increasing Pipe Size from 6-inch to 6-inch, 6-inch to 8-inch, or 8-inch to 8-inch Diameter; Includes Point Repair to Correct Sags," estimated **quantity is revised** from 4,741 LF to an revised quantity of 4,539 LF.

Bid Item No. 12a, "Sewer Reconstruction and Replacement by Method "C" Traditional Open Trench Method for Increasing Pipe Size from 4-inch to 6-inch or 6-inch to 6-inch Diameter; Includes Point Repair of Sags," estimated **quantity is revised** from 72 LF to a revised quantity of 79 LF.

Bid Item No. 12b, "Sewer Reconstruction and Replacement by Method "C" Traditional Open Trench Method for Increasing Pipe Size from 6-inch to 8-inch or 8-inch to 8-inch Diameter; Includes Point Repair of Sags," estimated quantity is revised from 645 LF to a revised quantity of 730 LF.

Removed Bid Item No. 15, "Connection of active laterals to new or rehabilitated sewer main or MH."

Added Bid Item No. 15a, "Connection of active laterals to new or rehabilitated sewer main or MH, using open excavation," set Estimated Quantity of 102 EA.

Added Bid Item No. 15b, "Connection of active laterals to new or rehabilitated sewer main or MH using Top Hat or approved equal," set Estimated Quantity of 10 EA.

Added Bid Item No. 34, "Concrete Encasement of 8-inch or Greater Pipe." Set Estimated Quantity to 20 LF.

Revised pages A9 through A11 are included as Attachment 1 of Addendum.

Item No. 2 – Adding New Bid Item No. 34, at end of page B24.

Add new Bid Item No. 34, "Concrete Encasement of 8-Inch or Greater Pipe." New Bid Item No. 34 description included as Attachment 2 of this Addendum.

Item No. 3 – Revising Special Condition No. 41, page B56.

Revise Special Condition No. 41 to add Sheet 11 – Latham Ln and Creston Rd from MH 17-713-B2 to MH 17-713-17 and remove Campus Dr at MH 17-702-A4 and MH 17-605-87.

Replace Special Condition No. 41 with version included as Attachment 3 of this Addendum.

Item No. 4 – Adding New Special Condition No. 44, at end of page B62.

Add new Special Condition No. 44, for technical specifications on HDPE maintenance holes. New Special Condition No. 44 included as Attachment 4 of this Addendum.

Item No. 5 - Revising Description of Bid Items, Bid Item No. 15, page B13 of Special Provisions

Replace entirety of Bid Item No. 15 bid description with revised description included as Attachment 5 of this Addendum.

All other provisions of the contract documents shall remain the same. <u>Bidders shall submit a signed copy of Addendum</u> No. 2 along with their Bidder's Proposal. Failure to do so may result in bid rejection.

No. 2 along with their Bidder's Proposal. Failure to do so ma	ay result in bid rejection.
Sincerely, Onice M. Akagi, Supervising Civil Engineer	
BIDDER'S ACKNOWLEDGEMENT:	
Name of Company:	
Address, City, State, Zip:	
Signature:	Title:
Print Name:	Date:

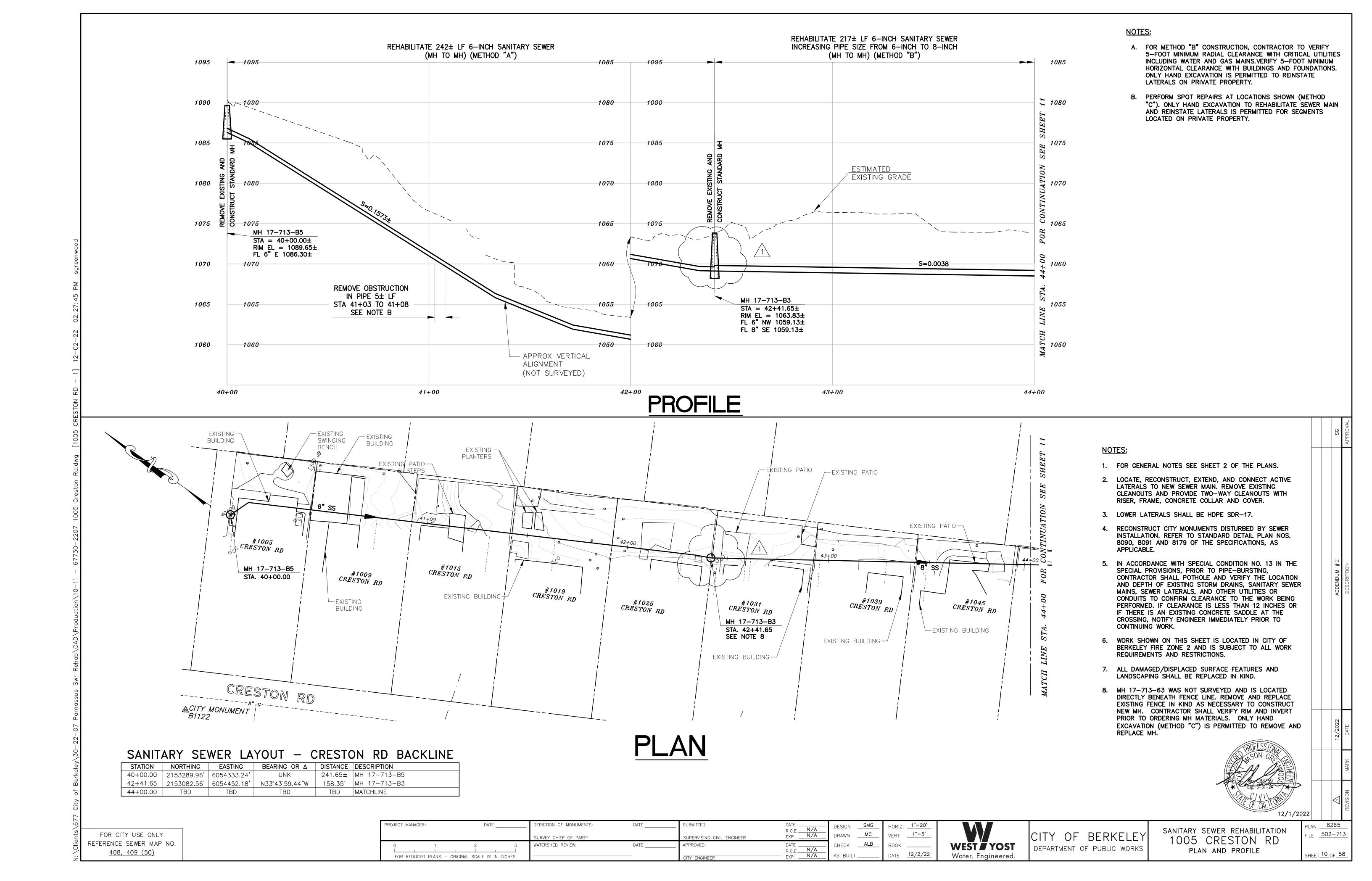
Attachments: Revised Plan Sheets

Attachment 1, Bidders Proposal

Attachment 2, Description of Bid Items, Bid Item No. 34

Attachment 3, Special Condition No. 41 Attachment 4, Special Condition No. 44

Attachment 5, Description of Bid Items, Bid Item No. 15



REHABILITATE 109± LF 6-INCH SANITARY SEWER REHABILITATE 117± LF 6-INCH SANITARY SEWER INCREASING PIPE SIZE FROM 6-INCH TO 8-INCH INCREASING PIPE SIZE FROM 6-INCH TO 8-INCH FOR CONTINUATION SEE (MH TO MH) (METHOD "B") (MH TO MH) (METHOD "B") SHEET 11 1060 1075 1055 NOWN HER NOWN HE NOWN HER NOWN 1050 ESTIMATED EXISTING GRADE 1045 1060 1040 1060 1040 S=0.0165 NO CCTV 10± LF STA 44+49 TO 44+59 1055 1035 1035 REPAIR SAG 8± LF CONTRACTOR SHALL STA 45+11 TO 45+19 VERIFY REHAB METHOD SEE NOTE B PRIOR TO CONSTRUCTION MH 17-713-99 MH 17-713-17 STA = 45+68.001050 1030 1030 STA = 46+85.10 RIM EL = 1033.38± MH 17-713-B2 RIM EL = $1063.22 \pm$ FL 8" NE 1056.40 REPAIR SEPARATED JOINT 8± LF STA = 44+58.68

NOTES:

NOTES:

AND COVER.

1. FOR GENERAL NOTES SEE SHEET 2 OF THE PLANS.

ACTIVE LATERALS TO NEW SEWER MAIN. REMOVE EXISTING CLEANOUTS AND PROVIDE TWO-WAY

CLEANOUTS WITH RISER, FRAME, CONCRETE COLLAR

SEWER INSTALLATION. REFER TO STANDARD DETAIL

PIPE-BURSTING, CONTRACTOR SHALL POTHOLE AND VERIFY THE LOCATION AND DEPTH OF EXISTING

STORM DRAINS, SANITARY SEWER MAINS, SEWER LATERALS, AND OTHER UTILITIES OR CONDUITS TO

6. WORK SHOWN ON THIS SHEET IS LOCATED IN CITY OF BERKELEY FIRE ZONE 2 AND IS SUBJECT TO

ALL WORK REQUIREMENTS AND RESTRICTIONS.

7. ALL DAMAGED/DISPLACED SURFACE FEATURES AND LANDSCAPING SHALL BE REPLACED IN KIND.

2. LOCATE, RECONSTRUCT, EXTEND, AND CONNECT

3. LOWER LATERALS SHALL BE HDPE SDR-17.

SPECIFICATIONS, AS APPLICABLE.

4. RECONSTRUCT CITY MONUMENTS DISTURBED BY

PLAN NOS. 8090, 8091 AND 8179 OF THE

5. IN ACCORDANCE WITH SPECIAL CONDITION NO. 13

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.

IN THE SPECIAL PROVISIONS, PRIOR TO

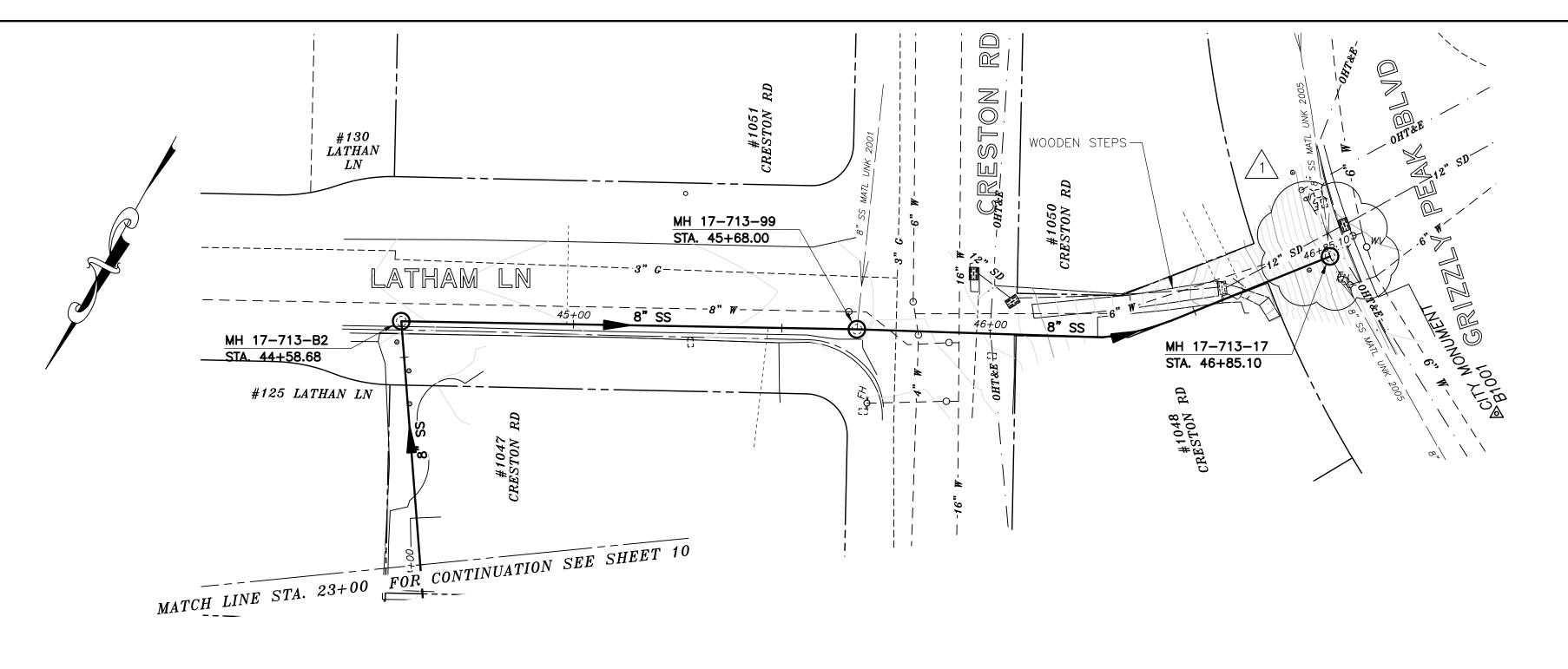
- A. FOR METHOD "B" CONSTRUCTION, CONTRACTOR
 TO VERIFY 5-FOOT MINIMUM RADIAL CLEARANCE
 WITH CRITICAL UTILITIES INCLUDING WATER AND
 GAS MAINS.VERIFY 5-FOOT MINIMUM HORIZONTAL
 CLEARANCE WITH BUILDINGS AND FOUNDATIONS.
 ONLY HAND EXCAVATION IS PERMITTED TO
 REINSTATE LATERALS ON PRIVATE PROPERTY.
- B. PERFORM SPOT REPAIRS AT LOCATIONS SHOWN (METHOD "C"). ONLY HAND EXCAVATION TO REHABILITATE SEWER MAIN AND REINSTATE LATERALS IS PERMITTED FOR SEGMENTS LOCATED ON PRIVATE PROPERTY.



46+00

STA 46+75 TO 46+80

SEE NOTE B



FL 8" SW 1056.40

FL 8" SE 1056.90

45+00

SANITARY SEWER LAYOUT - LATHAM LN

RIM EL = $1062.72 \pm$

FL 8" NW 1058.30

FL 8" SW 1058.20

44+00

STATION	NORTHING	EASTING	BEARING OR Δ	DISTANCE	DESCRIPTION
44+00.00	TBD	TBD	TBD	TBD	MATCHLINE
44+58.68	2152902.08	6054572.69	S61°42'23"W	109.32'	MH 17-713-B2
45+68.00	2152850.26	6054476.44	UNK	117.11	MH 17-713-99
46+85.10	2152779.41	6054386.01	N/A	N/A	MH 17-713-17

PLAN

DOFFSS (Q)
SON CON
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Exp. 3-31-24
CLVI
OF CALLYON
12/1/2022

FOR CITY USE ONLY
REFERENCE SEWER MAP NO.
408, 409 (50)

PROJECT MANAGER:

DATE DEPICTION OF MONUMENTS:

DATE SUPERVISING CIVIL ENGINEER

DATE R.C.E. N/A EXP. N/A

DESIGN SMG

DATE R.C.E. N/A

DATE N/A

DESIGN SMG

DATE R.C.E. N/A

DATE N/A

DATE N/A

DATE N/A

DATE N/A

AS BUILT LITE ENGINEER

FL 8" NE 1027.90

FL 8" NW 1027.90

FL 8" SE 1027.90

47+50

47+00

CITY OF BERKELEY DEPARTMENT OF PUBLIC WORKS

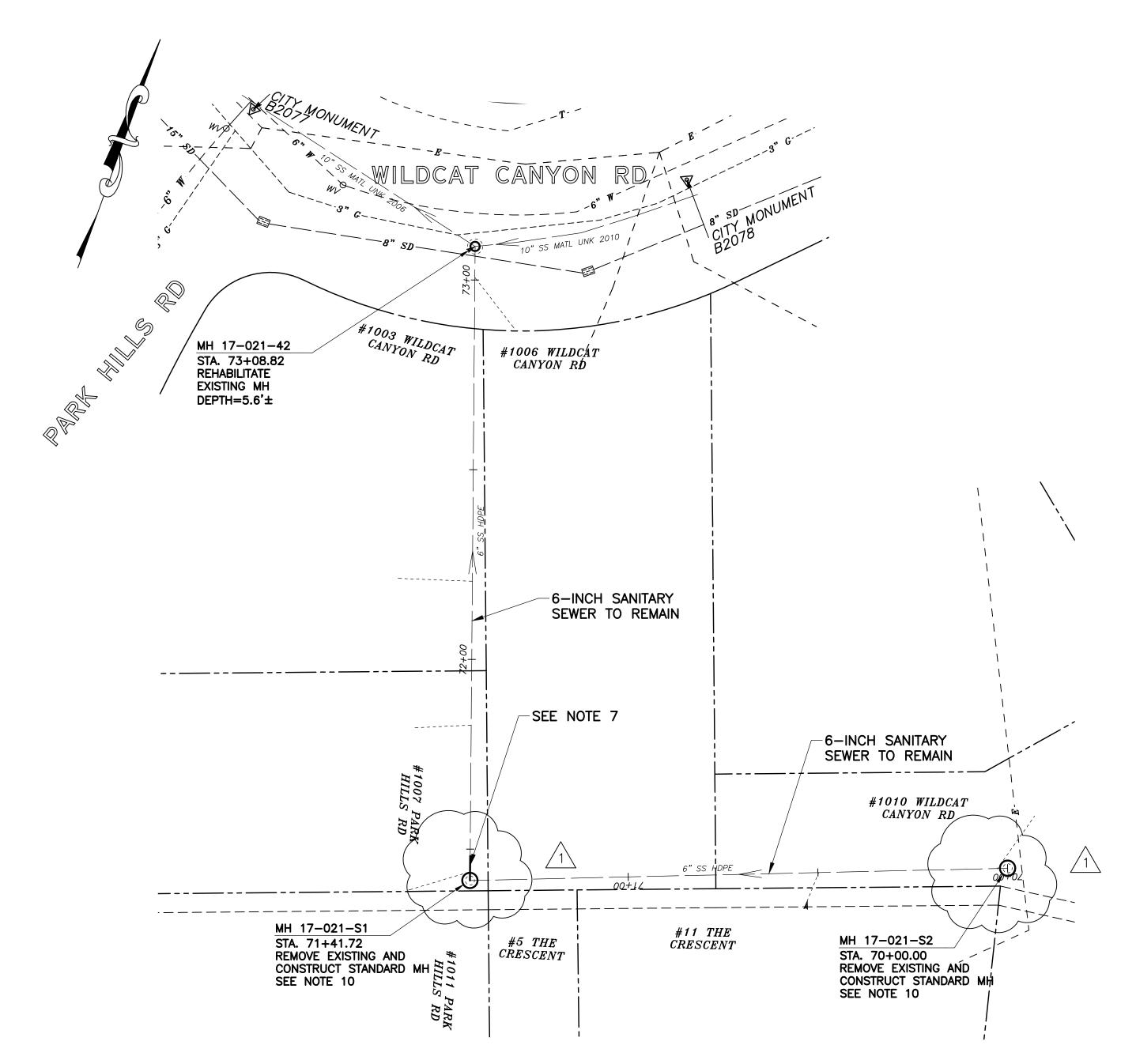
SANITARY SEWER REHABILITATION

LATHAM LN

PLAN AND PROFILE

PLAN <u>8265</u>
FILE <u>502-713</u>

SHEET <u>11 OF 58</u>

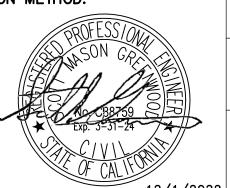


SANITARY SEWER LAYOUT - WILDCAT CANYON BACKLINE

	STATION	NORTHING	EASTING	BEARING OR A	DISTANCE	DESCRIPTION
	70+00.00	2153356.44	6055316.56	N67°26'12.41"	141.72	MH 17-021-S2
ĺ	71+41.72	2153302.06	6055185.68	S20°47'29.77"E	160.60	MH 17-021-S1
ĺ	73+08.82	2153458.28'	6055126.37	N/A	N/A	MH 17-021-42

NOTES:

- 1. FOR GENERAL NOTES SEE SHEET 2 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 AND 8179 OF THE SPECIFICATIONS, AS APPLICABLE.
- 5. IN ACCORDANCE WITH SPECIAL CONDITION NO. 13 IN THE SPECIAL PROVISIONS, PRIOR TO PIPE-BURSTING, 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.
- 6. WORK SHOWN ON THIS SHEET IS LOCATED IN CITY OF BERKELEY FIRE ZONE 2 AND IS SUBJECT TO ALL WORK REQUIREMENTS AND RESTRICTIONS.
- 7. REPAIR JOINT SEPARATION 5± LF STA 71+43± TO $71+47\pm$ (METHOD "C").
- 8. ONLY HAND EXCAVATION (METHOD "C") WILL BE ALLOWED FOR WORK LOCATED ON PRIVATE PROPERTY.
- 9. ALL DAMAGED/DISPLACED SURFACE FEATURES AND LANDSCAPING SHALL BE REPLACED IN KIND.
- 10. MH NOT SURVEYED. CONTRACTOR SHALL VERIFY RIM AND INVERT PRIOR TO ORDERING MH MATERIALS. ONLY HAND EXCAVATION (METHOD "C") IS PERMITTED TO REMOVE AND REPLACE MH. SUBMIT PHOTOS OF MH INTERIOR TO ENGINEER FOR CONFIRMATION OF REHABILITATION METHOD.



FOR CITY USE ONLY REFERENCE SEWER MAP NO. <u>467 (50)</u>

PROJECT MANAGER:		DATE		DEPICTION OF MONUMENTS:	DATE	_ SUBMITTED:	DATE	DESIGN SMG
				CLIDVEY OUTE OF DADTY		CHDED///CING ON/II ENGINEED	R.C.EN/A N/A	DRAWN MC
				SURVEY CHIEF OF PARTY		SUPERVISING CIVIL ENGINEER	L/11.	
0	1	2	3	WATERSHED REVIEW:	DATE	APPROVED:	DATE	CHECK <u>ALB</u>
							R.C.E. N/A	
FOR REDUCED PLA	ANS — ORIGINAL	SCALE IS IN	INCHES			CITY ENGINEER	EXP. N/A	AS BUILT

WEST YOST Water. Engineered.

HORIZ. <u>1"=20'</u>

VERT. ___1"=5'

B00K _____

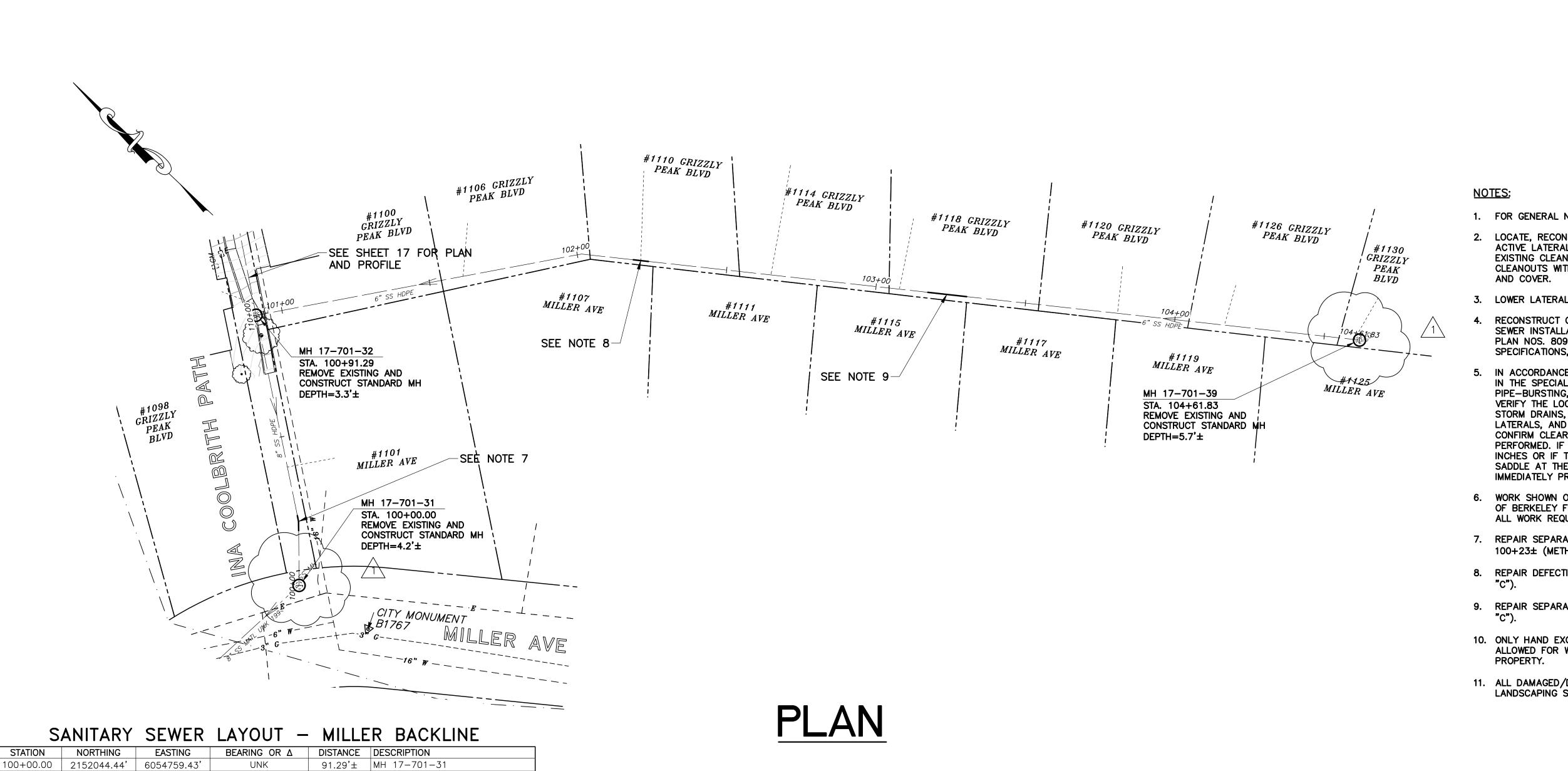
DATE <u>12/2/22</u>

CITY OF BERKELEY DEPARTMENT OF PUBLIC WORKS

SANITARY SEWER REHABILITATION 1010 WILDCAT CANYON RD PLAN AND PROFILE

FILE <u>502-713</u>

SHEET 14 OF 58



- 1. FOR GENERAL NOTES SEE SHEET 2 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
- 3. LOWER LATERALS SHALL BE HDPE SDR-17.
- RECONSTRUCT CITY MONUMENTS DISTURBED BY SEWER INSTALLATION. REFER TO STANDARD DETAIL PLAN NOS. 8090, 8091 AND 8179 OF THE SPECIFICATIONS, AS APPLICABLE.
- 5. IN ACCORDANCE WITH SPECIAL CONDITION NO. 13 IN THE SPECIAL PROVISIONS, PRIOR TO PIPE-BURSTING, 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.
- 6. WORK SHOWN ON THIS SHEET IS LOCATED IN CITY OF BERKELEY FIRE ZONE 2 AND IS SUBJECT TO ALL WORK REQUIREMENTS AND RESTRICTIONS.
- 7. REPAIR SEPARATED JOINTS STA 100+18 TO 100+23± (METHOD "C").
- 8. REPAIR DEFECTIVE TAP STA 102+21± (METHOD
- 9. REPAIR SEPARATED JOINTS STA 103+17± (METHOD
- 10. ONLY HAND EXCAVATION (METHOD "C") WILL BE ALLOWED FOR WORK LOCATED ON PRIVATE
- 11. ALL DAMAGED/DISPLACED SURFACE FEATURES AND LANDSCAPING SHALL BE REPLACED IN KIND.

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ASON GREAT		
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Exp. 3-31-24		
OF CALIFORNIA		
10/4/0000	. 1	

12/1/2022

FOR CITY USE ONLY REFERENCE SEWER MAP NO. <u>309 (50)</u>

100+91.29 | 2152117.98' | 6054813.00'

104+61.83 | 2151852.14' | 6055066.23'

370.54'± MH 17-701-32

N/A MH 17-701-39

UNK

PROJECT MANAGER:		DATE		DEPICTION OF MONUMENTS: SURVEY CHIEF OF PARTY	DATE	SUBMITTED: SUPERVISING CIVIL ENGINEER	DATE	DESIGN <u>SMG</u> DRAWN <u>MC</u>
0	1	2	3	WATERSHED REVIEW:	DATE	APPROVED:	DATE R.C.E. N/A	CHECK <u>ALB</u>
FOR REDUCED PL	ANS — ORIGINAL S	CALE IS IN	INCHES			CITY ENGINEER	EXP. N/A	AS BUILT

WEST YOST Water. Engineered.

HORIZ. <u>1"=20'</u>

VERT. ___1"=5'

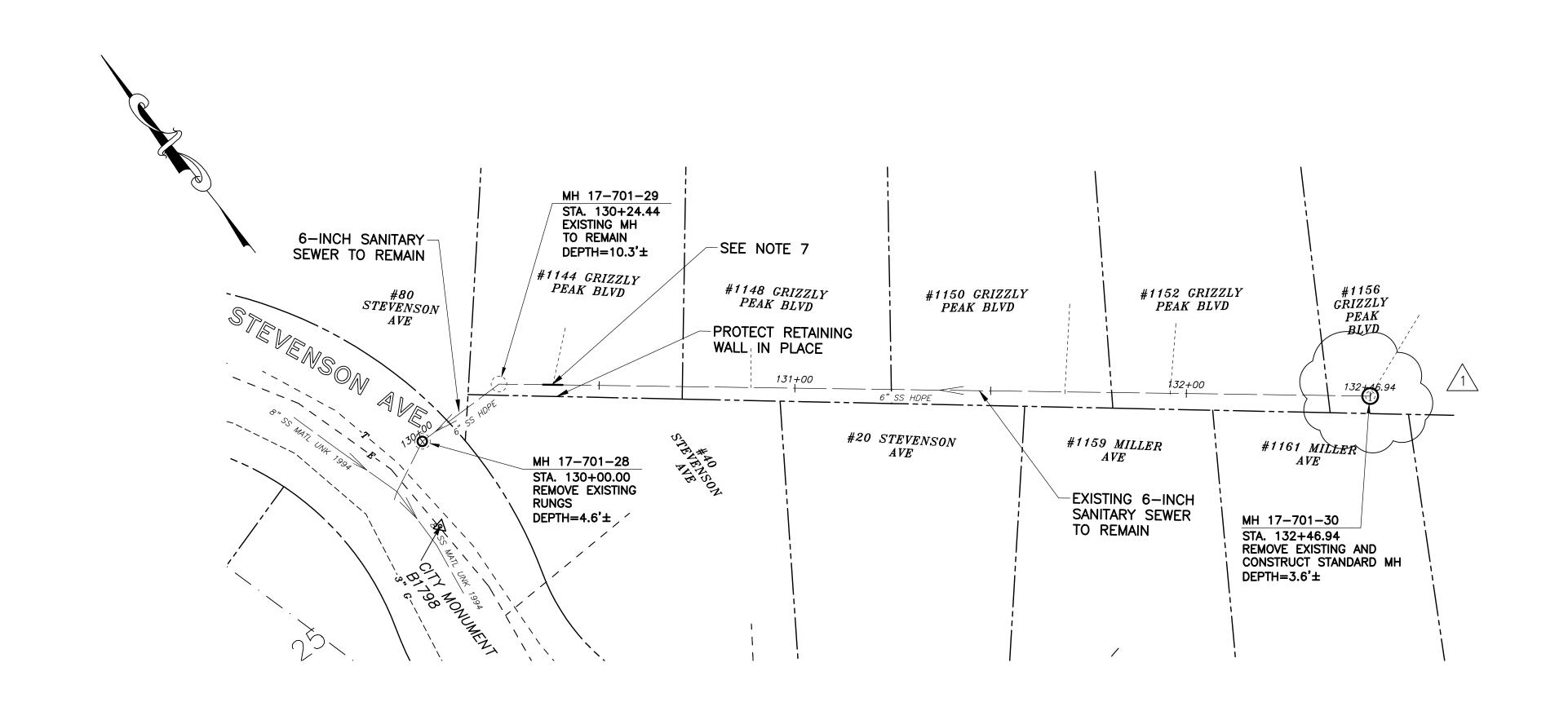
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DATE <u>12/2/22</u>

CITY OF BERKELEY DEPARTMENT OF PUBLIC WORKS

SANITARY SEWER REHABILITATION 1101 MILLER AVE PLAN AND PROFILE

□_{LAN} <u>8265</u> FILE <u>502-713</u> SHEET 16 OF 58



- 1. FOR GENERAL NOTES SEE SHEET 2 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 AND 8179 OF THE SPECIFICATIONS, AS APPLICABLE.
- 5. IN ACCORDANCE WITH SPECIAL CONDITION NO. 13 IN THE SPECIAL PROVISIONS, PRIOR TO PIPE-BURSTING, 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.
- 6. WORK SHOWN ON THIS SHEET IS LOCATED IN CITY OF BERKELEY FIRE ZONE 2 AND IS SUBJECT TO ALL WORK REQUIREMENTS AND RESTRICTIONS.
- 7. REPAIR LATERAL CONNECTION 5± LF STA 130+35± TO $130+40\pm$ (METHOD "C").
- 8. ONLY HAND EXCAVATION (METHOD "C") WILL BE ALLOWED FOR WORK LOCATED ON PRIVATE PROPERTY.
- 9. ALL DAMAGED/DISPLACED SURFACE FEATURES AND LANDSCAPING SHALL BE REPLACED IN KIND.
- 10. FILL VOIDS CAUSED BY RUNG REMOVAL WITH NON-SHRINK GROUT.

SANITARY SEWER LAYOUT - STEVENSON BACKLINE

STATION	NORTHING	EASTING	BEARING OR A	DISTANCE	DESCRIPTION				
130+00.00	2151653.82	6055250.47	N89°46'30"E	24.44'	MH 17-701-28				
130+24.44	2151653.91	6055274.91	S52°38'29"E	222.51'	MH 17-701-29				
132+46.94	2151731.94	6055080.26	N/A	N/A	MH 17-701-30				

PLAN

OJECT MANAGER: DATE	DEPICTION OF MONUMENTS:	DATE	SUBMITTED:	DATE	DI
				R.C.E. N/A	D
	SURVEY CHIEF OF PARTY	-	SUPERVISING CIVIL ENGINEER	EXP. <u>N/A</u>	DI
0 1 2 3	WATERSHED REVIEW:	DATE	APPROVED:	DATE	CI
				R.C.E. N/A	
FOR REDUCED PLANS - ORIGINAL SCALE IS IN INCHES		-	CITY ENGINEER	EXP. N/A	AS

WEST YOST Water. Engineered.

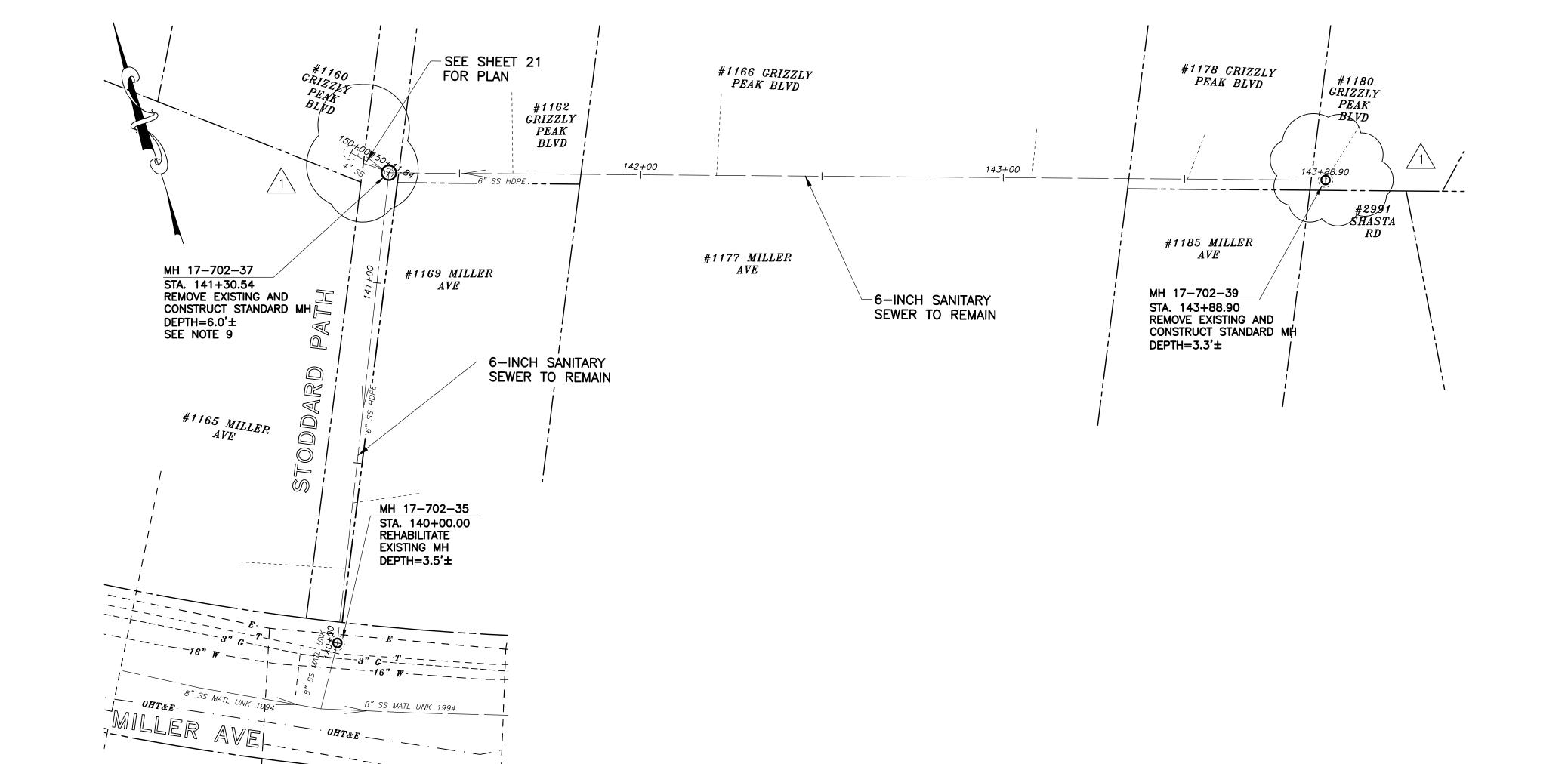
SANITARY SEWER REHABILITATION 40 STEVENSON AVE PLAN AND PROFILE

FILE <u>502-713</u> SHEET 19 OF 58

FOR CITY USE ONLY REFERENCE SEWER MAP NO. <u>388 (50)</u>

HORIZ. __1"=20' VERT. ___1"=5' DRAWN MC __ALB CHECK B00K _____ DATE <u>12/2/22</u>

CITY OF BERKELEY DEPARTMENT OF PUBLIC WORKS



- 1. FOR GENERAL NOTES SEE SHEET 2 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 AND 8179 OF THE SPECIFICATIONS, AS APPLICABLE.
- 5. IN ACCORDANCE WITH SPECIAL CONDITION NO. 13 IN THE SPECIAL PROVISIONS, PRIOR TO PIPE-BURSTING, 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.
- 6. WORK SHOWN ON THIS SHEET IS LOCATED IN CITY OF BERKELEY FIRE ZONE 2 AND IS SUBJECT TO ALL WORK REQUIREMENTS AND RESTRICTIONS.
- 7. ONLY HAND EXCAVATION (METHOD "C") WILL BE ALLOWED FOR WORK LOCATED ON PRIVATE PROPERTY.
- 8. ALL DAMAGED/DISPLACED SURFACE FEATURES AND LANDSCAPING SHALL BE REPLACED IN KIND.
- 9. MH 17-702-37 IS LOCATED DIRECTLY BENEATH FENCE LINE. REMOVE AND REPLACE EXISTING FENCE IN KIND AS NECESSARY TO CONSTRUCT NEW MH.

SANITARY SEWER LAYOUT - MILLER BACKLINE

STATION	NORTHING	EASTING	BEARING OR Δ	DISTANCE	DESCRIPTION
140+00.00	2151329.70	6055491.67	S22°25'17.88"W	130.54	MH 17-702-35
141+30.54	21514510.37	6055541.46	N73'23"10.21W	258.36'	MH 17-702-37
143+88.90	2151376.50	6055789.03	N/A	N/A	MH 17-702-39

PLAN

CITY OF BERKELEY DEPARTMENT OF PUBLIC WORKS

SANITARY SEWER REHABILITATION 1169 MILLER AVE PLAN AND PROFILE

FILE <u>502-713</u> SHEET 20 OF 58

FOR CITY USE ONLY REFERENCE SEWER MAP NO. <u>389 (50)</u>

PROJECT MANAGER:		DATE _		DEPICTION OF MONUMENTS: SURVEY CHIEF OF PARTY	DATE	SUBMITTED: SUPERVISING CIVIL ENGINEER	DATE R.C.E. N/A EXP. N/A	DESIGN <u>SMG</u> DRAWN <u>MC</u>	
0	1	2	3	WATERSHED REVIEW:	DATE	APPROVED:	DATE	CHECK <u>ALB</u>	
FOR REDUCED	PLANS - OF	RIGINAL SCALE IS IN	INCHES			CITY ENGINEER	——————————————————————————————————————	AS BUILT	l

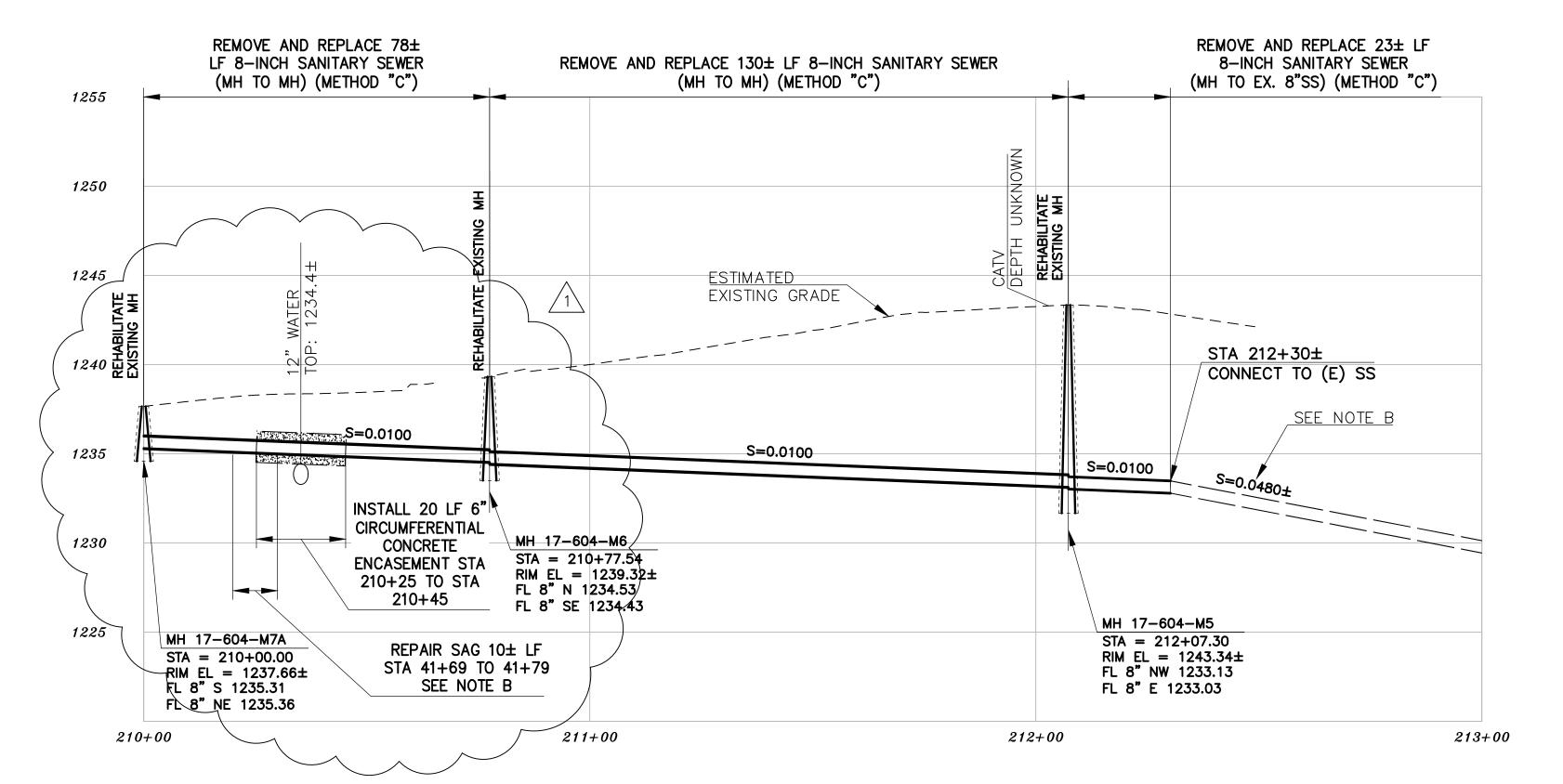
WEST YOST Water. Engineered.

HORIZ. <u>1"=20'</u>

VERT. ___1"=5'

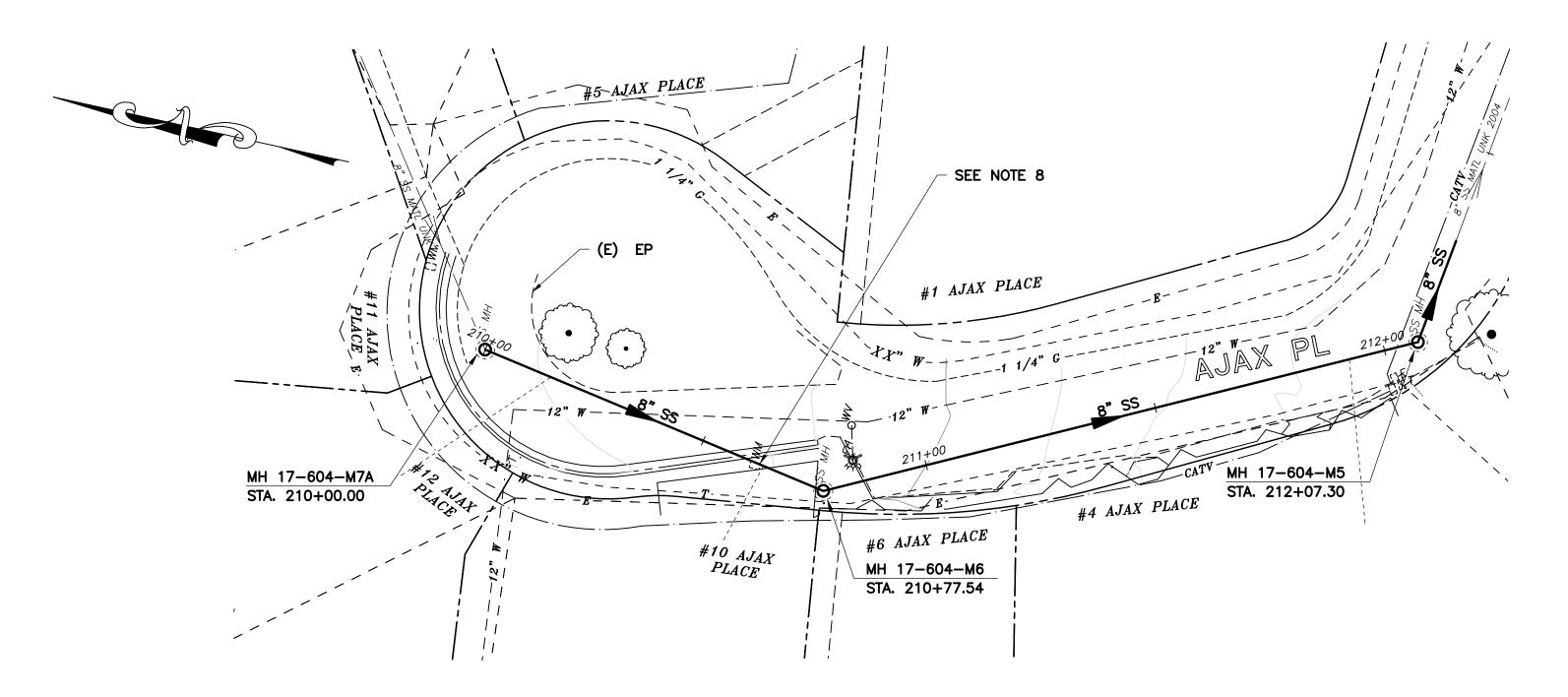
B00K _____

DATE <u>12/2/22</u>



- A. CONTRACTOR SHALL POTHOLE ALL UTILITIES PRIOR TO ORDERING MATERIALS. CONTACT ENGINEER IMMEDIATELY IF ANY CONFLICTS EXIST BEFORE PROCEEDING WITH WORK.
- B. DOWNSTREAM MH 17-604-M4 WAS NOT SURVEYED (NOT SHOWN IN PLAN). CONTRACTOR SHALL SURVEY MH 17-605-M4 TO CONFIRM EXISTING PIPE SLOPE BETWEEN MH 17-604-M5 AND MH 17-604-M4. NOTIFY ENGINEER IF SLOPE DIFFERS FROM WHAT IS SHOWN IN PROFILE. RELOCATION OF CONNECTION POINT MAY BE NECESSARY. POTHOLE EXISTING SEWER TO CONFIRM HORIZONTAL AND VERTICAL LOCATION PRIOR TO ORDERING MH MATERIALS.
- C. PRIOR TO CONSTRUCTION, POTHOLE (E) 12" WATER TO DETERMINE IF PROPOSED SEWER IS IN CONFLICT. IF CONFLICT EXISTS, NOTIFY ENGINEER IMMEDIATELY FOR FURTHER

PROFILE



SANITARY SEWER LAYOUT - AJAX PLACE

STATION	NORTHING	EASTING	BEARING OR Δ	DISTANCE	DESCRIPTION
210+00.00	2150680.50	6056630.04	S8°50'51"W	77.54	MH 17-604-M7A
210+77.54	2150603.88	6056618.11	S38°52'35"E	129.76	MH 17-604-M6
212+07.30	2150489.18	6056678.78	S83°15'36"E	25.53'	MH 17-604-M5
212+32.83	2150486.18	6056704.13	N/A	N/A	MH 17-604-M5A

PLAN

NOTES:

- 1. FOR GENERAL NOTES SEE SHEET 2 OF THE PLANS.
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- 3. LOWER LATERALS SHALL BE HDPE SDR-17.
- 4. RECONSTRUCT CITY MONUMENTS DISTURBED BY SEWER INSTALLATION. REFER TO STANDARD DETAIL PLAN NOS. 8090, 8091 AND 8179 OF THE SPECIFICATIONS, AS APPLICABLE.
- 5. IN ACCORDANCE WITH SPECIAL CONDITION NO. 13 IN THE SPECIAL PROVISIONS, PRIOR TO PIPE-BURSTING, 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.
- 6. WORK SHOWN ON THIS SHEET IS LOCATED IN CITY OF BERKELEY FIRE ZONE 2 AND IS SUBJECT TO ALL WORK REQUIREMENTS AND RESTRICTIONS.
- 7. ALL DAMAGED/DISPLACED SURFACE FEATURES AND LANDSCAPING SHALL BE REPLACED IN KIND.
- 8. SEWER IS LOCATED DIRECTLY BELOW WATER METER BOX. PROTECT METER AND SERVICE LINE IN PLACE. REMOVE AND REPLACE METER BOX IN KIND TO PERFORM PROPOSED WORK.



PROJECT MANAGER: DEPICTION OF MONUMENTS: SUBMITTED: DATE _ DATE _ DESIGN SMG DRAWN MC SURVEY CHIEF OF PARTY SUPERVISING CIVIL ENGINEER CHECK ALB WATERSHED REVIEW: APPROVED: R.C.E. N/A EXP. N/A AS BUILT FOR REDUCED PLANS - ORIGINAL SCALE IS IN INCHES

WEST YOST Water. Engineered.

VERT. ___1"=5'

B00K _____

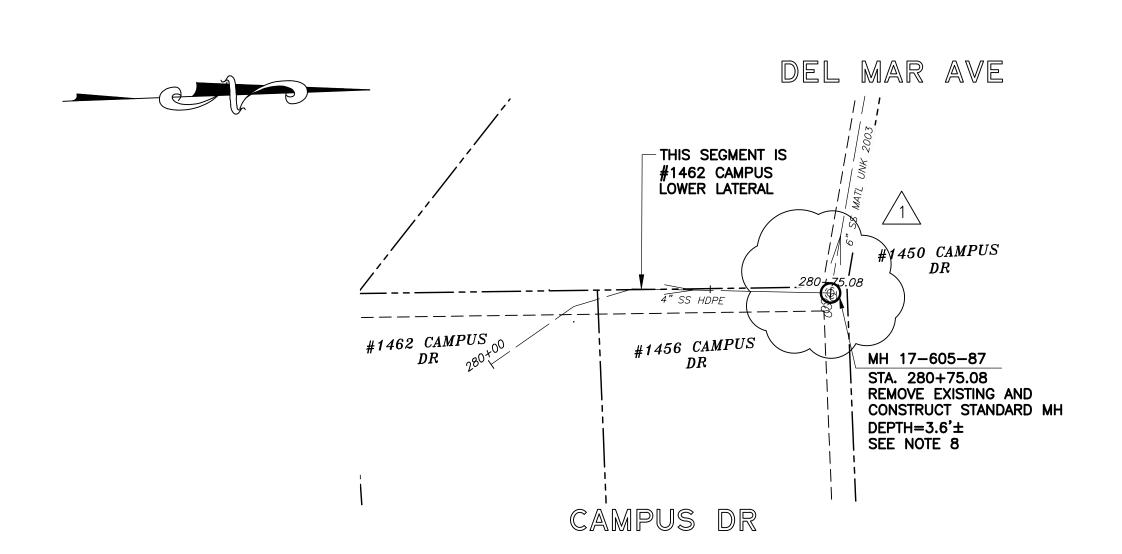
DATE <u>12/2/22</u>

CITY OF BERKELEY DEPARTMENT OF PUBLIC WORKS

SANITARY SEWER REHABILITATION AJAX PLACE PLAN AND PROFILE

FILE <u>502-713</u> SHEET 27 OF 58

FOR CITY USE ONLY REFERENCE SEWER MAP NO. <u>365, 366 (50)</u>



SANITARY SEWER LAYOUT - CAMPUS BACKLINE

	11/7/17					DAONE	
STATION	NORTHING	EASTING	BEARING OR A	DISTANCE		DESCRIPTION	
280+75.08	2148622.92	6055776.86	N/A	N/A	MH 17-	605-87	

PLAN

NOTES:

- 1. FOR GENERAL NOTES SEE SHEET 2 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 AND 8179 OF THE SPECIFICATIONS, AS APPLICABLE.
- 5. IN ACCORDANCE WITH SPECIAL CONDITION NO. 13 IN THE SPECIAL PROVISIONS, PRIOR TO PIPE-BURSTING, 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.
- 6. WORK SHOWN ON THIS SHEET IS LOCATED IN CITY OF BERKELEY FIRE ZONE 2 AND IS SUBJECT TO ALL WORK REQUIREMENTS AND RESTRICTIONS.
- 7. PERFORM SPOT REPAIRS AT LOCATIONS SHOWN (METHOD "C"). ONLY HAND EXCAVATION TO REHABILITATÉ SEWER MAIN AND REINSTATE LATERALS IS PERMITTED FOR SEGMENTS LOCATED ON PRIVATE PROPERTY.
- 8. RELOCATE MH 17-605-87 AS NECESSARY TO CONNECT 1462 CAMPUS DR AND 1456 CAMPUS DRIVE LATERALS TO NEW STRUCTURE.

FOR CITY USE ONLY REFERENCE SEWER MAP NO. <u>337 (50)</u>

ROJECT MANAGER:	DATE	DEPICTION OF MONUMENTS:	DATE	SUBMITTED:	DATE	DESIGN SMG
	_	SURVEY CHIEF OF PARTY	_	SUPERVISING CIVIL ENGINEER	R.C.E. N/A EXP. N/A	DRAWN MC
		SURVET CHIEF OF PARTT		SUPERVISING CIVIL ENGINEER		
0 1 2	3	WATERSHED REVIEW:	DATE	APPROVED:	DATE	CHECK <u>ALB</u>
					R.C.E. N/A	
FOR REDUCED PLANS — ORIGINAL SCAI	LE IS IN INCHES		_	CITY ENGINEER	EXP. N/A	AS BUILT

WEST YOST Water. Engineered.

HORIZ. __1"=20'

VERT. ___1"=5'

B00K _____

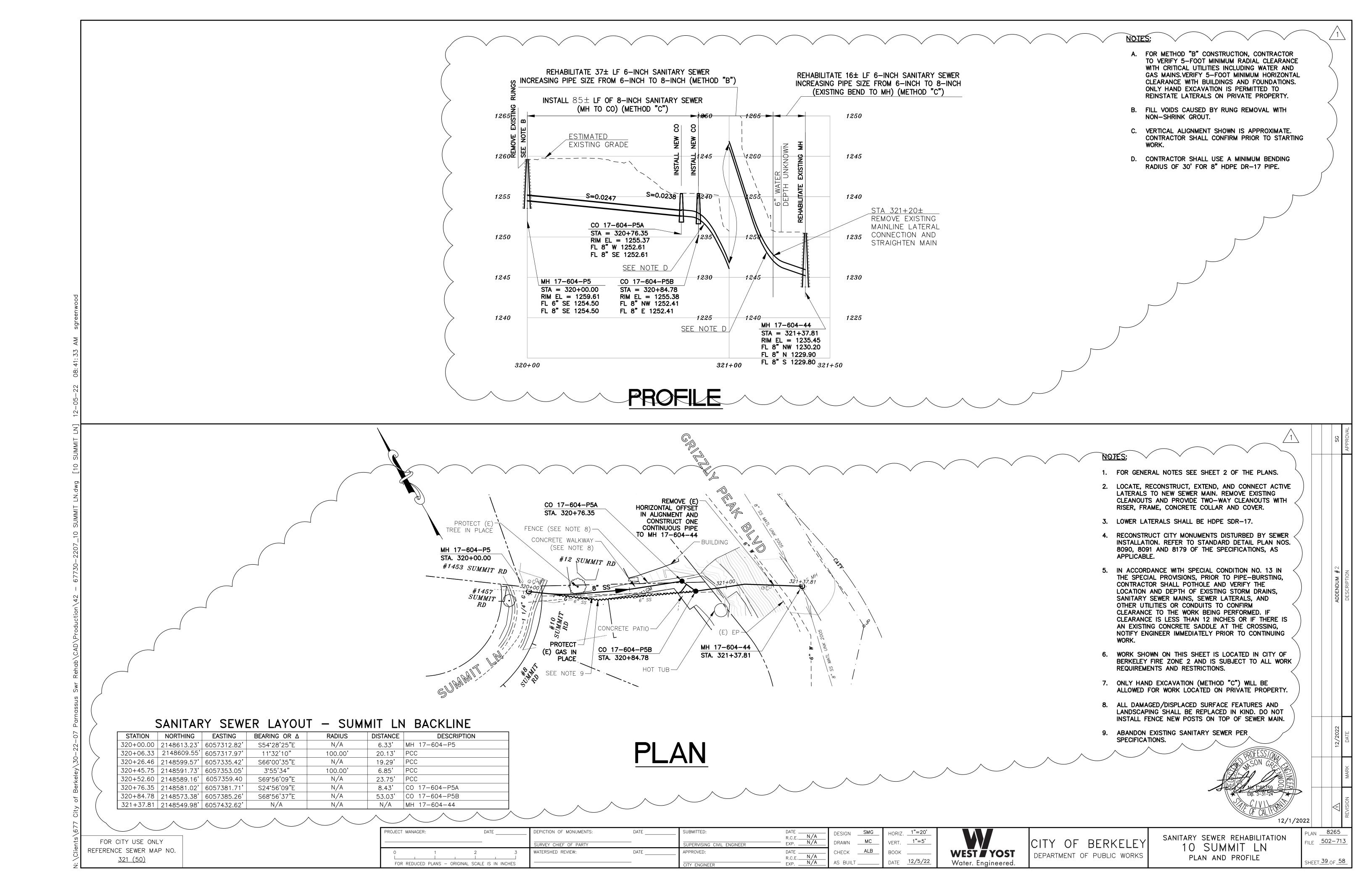
DATE <u>12/2/22</u>

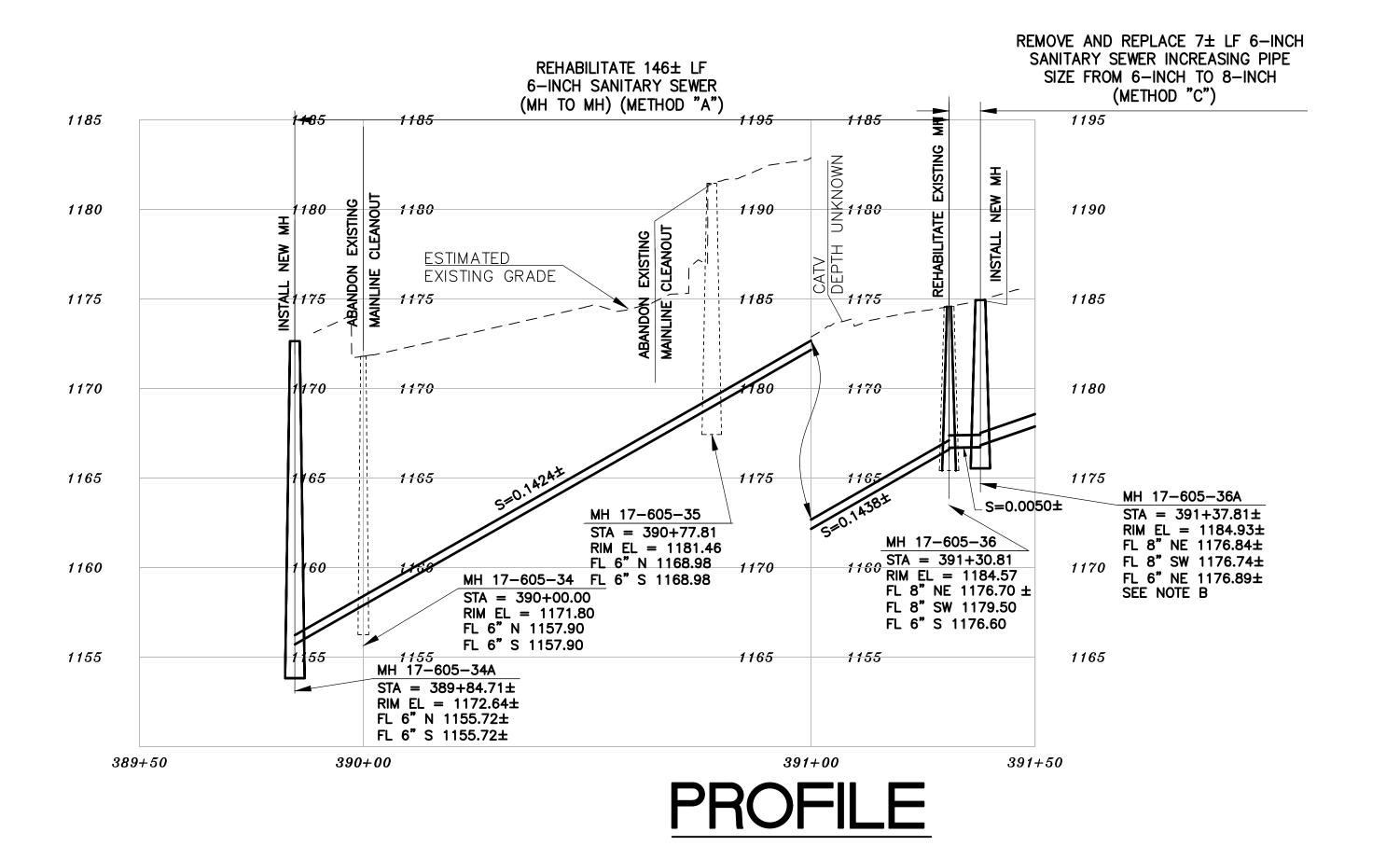
CITY OF BERKELEY DEPARTMENT OF PUBLIC WORKS

SANITARY SEWER REHABILITATION 1462 CAMPUS DR PLAN AND PROFILE

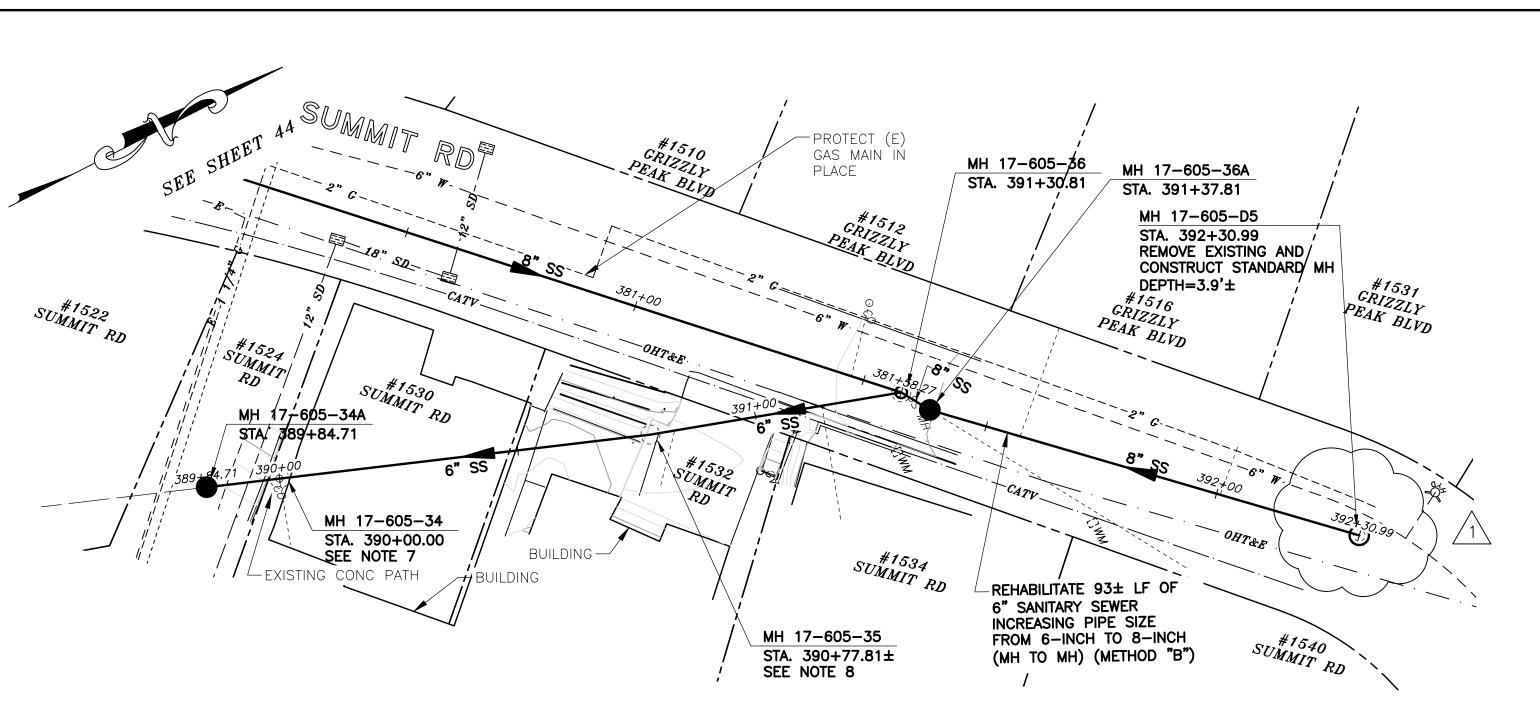
FILE <u>502-713</u>

SHEET 36 OF 58





- A. FOR METHOD "B" CONSTRUCTION, CONTRACTOR
 TO VERIFY 5-FOOT MINIMUM RADIAL CLEARANCE
 WITH CRITICAL UTILITIES INCLUDING WATER AND
 GAS MAINS. VERIFY 5-FOOT MINIMUM HORIZONTAL
 CLEARANCE WITH BUILDINGS AND FOUNDATIONS.
 ONLY HAND EXCAVATION IS PERMITTED TO
 REINSTATE LATERALS ON PRIVATE PROPERTY.
- B. INVERTS AT NEW MH 17-605-36 ARE APPROX AND ARE TO BE CONFIRMED BY CONTRACTOR PRIOR TO ORDERING MATERIALS. EXISTING SEWER MAIN IS CONNECTED TO LATERAL VIA TAP CONNECTION.



SANITARY SEWER LAYOUT - SUMMIT

STATION	NORTHING	EASTING	BEARING OR Δ	DISTANCE	DESCRIPTION
389+84.71	2148227.37	6057471.51	N18°52'29"E±	15.29'±	MH 17-605-34A
390+00.00	2148241.84	6057476.45	N18°52'29"E±	77.81'±	MH 17-605-34
390+77.81±	2148315.46'±	6057501.62'±	N16°05'26"E±	53.00'±	MH 17-605-35
391+30.81	2148370.17	6057522.20'	N57°15'51"E	7.00'	MH 17-605-36
391+37.81	2148370.17	6057522.20'	N41°55'31"E	93.17'	MH 17-605-36A
392+30.76	2148439.50	6057584.46	N/A	N/A	MH 17-605-D5

PLAN

NOTES:

- 1. FOR GENERAL NOTES SEE SHEET 2 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 AND 8179 OF THE SPECIFICATIONS, AS APPLICABLE.
- 5. IN ACCORDANCE WITH SPECIAL CONDITION NO. 13 IN THE SPECIAL PROVISIONS, PRIOR TO PIPE—BURSTING, 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.
- 6. WORK SHOWN ON THIS SHEET IS LOCATED IN CITY OF BERKELEY FIRE ZONE 2 AND IS SUBJECT TO ALL WORK REQUIREMENTS AND RESTRICTIONS.
- 7. ABANDON MH 17-605-34 BY SAW CUTTING EXISTING CONCRETE (CUTS SHALL BE NEAT AND AS CLOSE TO 90-DEGREES AS POSSIBLE), REMOVING EXISTING CLEANOUT STRUCTURE WITHIN TWO FEET OF SURFACE, FILLING CLEANOUT RISER WITH CLSM PER SPECIFICATIONS AFTER MAINLINE HAS BEEN REHABILITATED, AND INSTALLING NEW CONCRETE WALKWAY (MATCH EXISTING THICKNESS).
- 8. MH 17-605-35 WAS NOT LOCATED DURING DESIGN. CONTRACTOR SHALL LOCATE AND ABANDON BY REMOVING CLEANOUT STRUCTURE WITHIN TWO FEET OF SURFACE AND FILLING CLEANOUT RISER WITH CLSM PER SPECIFICATIONS.



2022

FOR CITY USE ONLY
REFERENCE SEWER MAP NO.
321 (50)

PROJECT MANAGER:		DATE		DEPICTION OF MONUMENTS:	DATE	SUBMITTED:	DATE R.C.E N/A	DESIG
				SURVEY CHIEF OF PARTY	_	SUPERVISING CIVIL ENGINEER	EXP. N/A	DRAW
0 1		2	3	WATERSHED REVIEW:	DATE	APPROVED:	DATE	CHEC
FOR REDUCED PLAN	NS - ORIGINAL	SCALE IS IN IN	ICHES		_	CITY ENGINEER	R.C.E. N/A EXP. N/A	AS BU

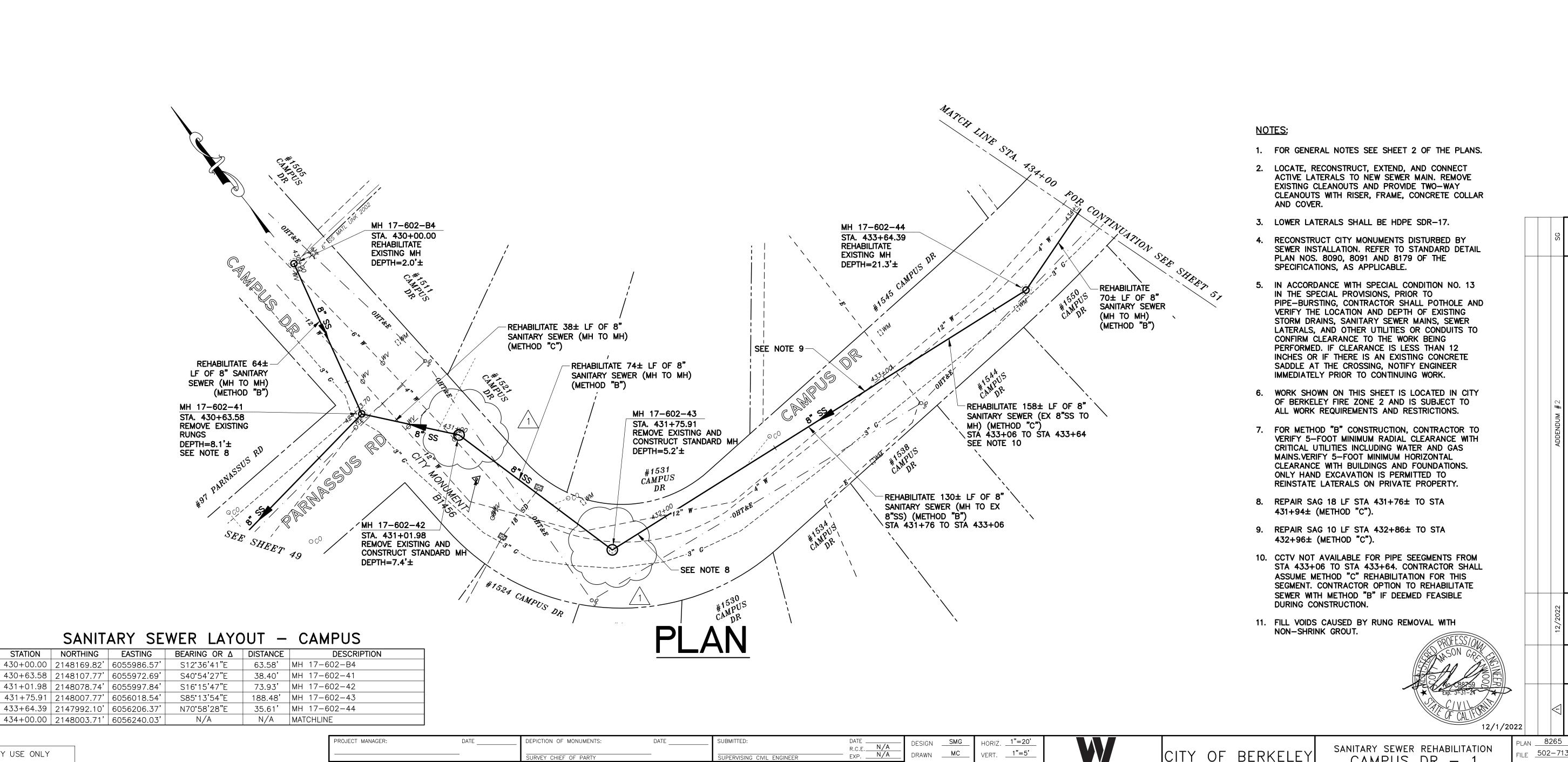
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WEST STATES OF PUBLIC WORKS

SANITARY SEWER REHABILITATION
1530 SUMMIT RD
PLAN AND PROFILE

PLAN <u>8265</u> FILE <u>502-713</u>

SHEET 45 OF 58



FOR CITY USE ONLY REFERENCE SEWER MAP NO. <u>323 (50)</u>

STATION NORTHING

PROJECT MANAG	ER:	DATE		DEPICTION OF MONUMENTS:	DATE	SUBMITTED:	DATE	DESIG
				SURVEY CHIEF OF PARTY		SUPERVISING CIVIL ENGINEER		DRAW
0	1	2	3	WATERSHED REVIEW:	DATE	APPROVED:	DATE	CHEC
FOR REDUC	CED PLANS — OR	RIGINAL SCALE IS	IN INCHES			CITY ENGINEER	R.C.E. N/A EXP. N/A	AS B

DATE	DESIGN <u>SMG</u>	HORIZ.	1"=20"
R.C.E. N/A EXP. N/A	DRAWN MC	VERT.	1"=5'
DATE	CHECK ALB	воок	
R.C.E. N/A		DATE	12/2/22
EXPN/A	AS BUILT	DATE	12/2/22

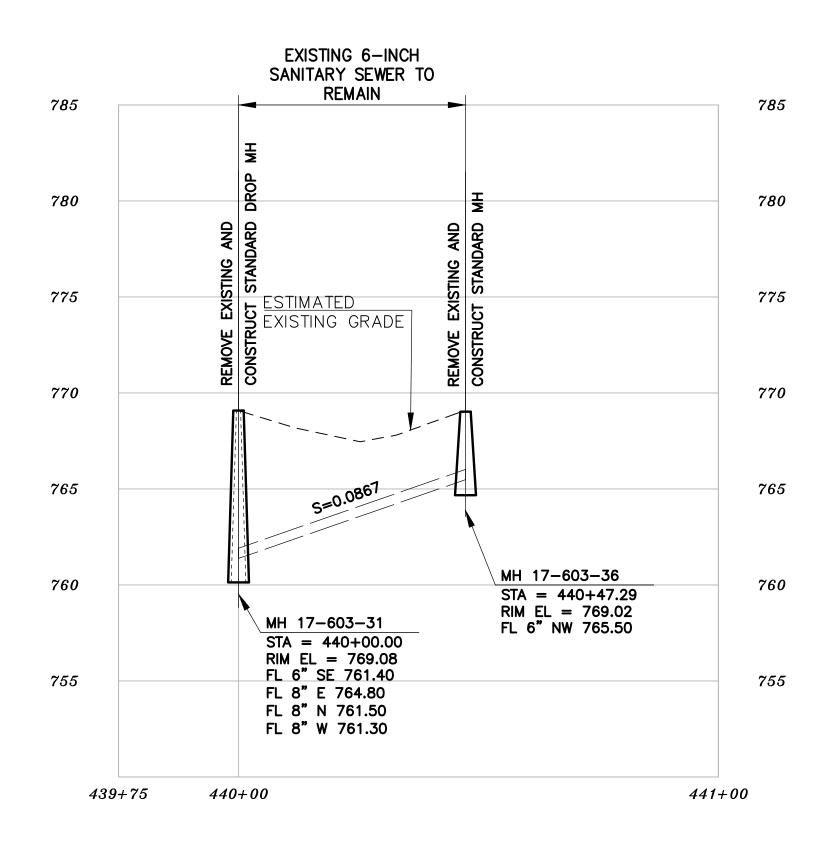
WEST YOST Water. Engineered.

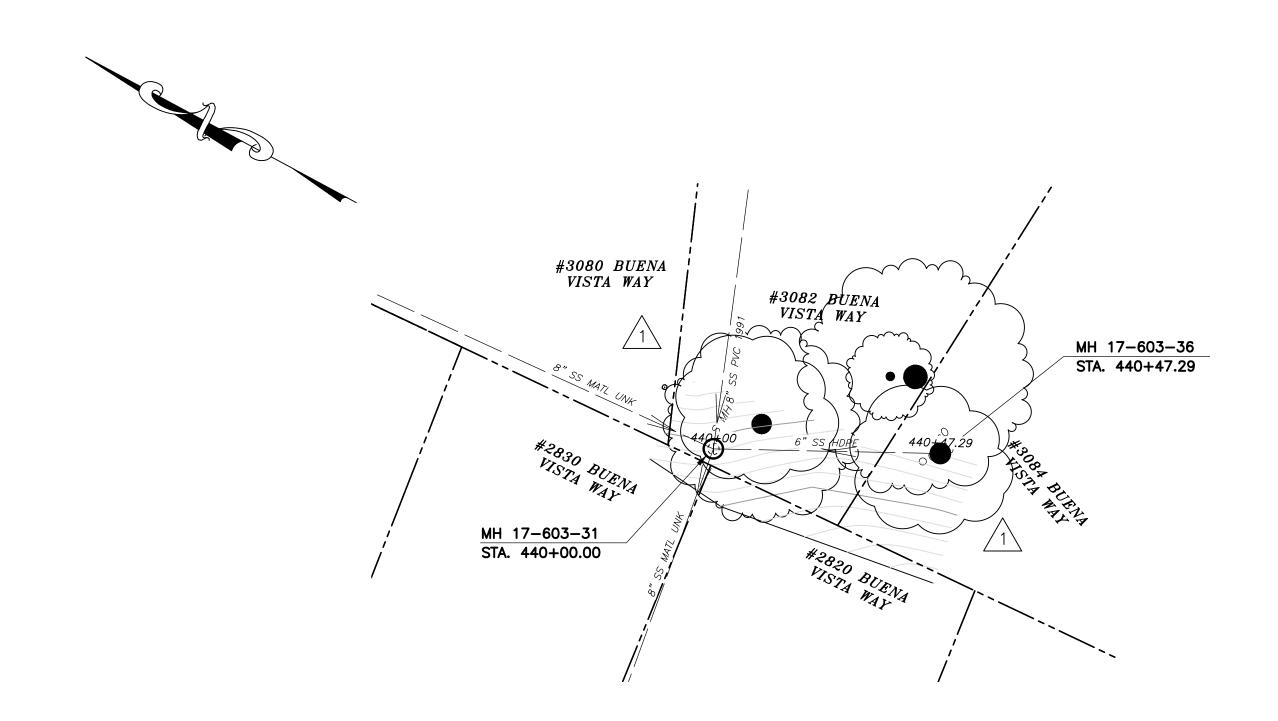
CITY OF BERKELEY DEPARTMENT OF PUBLIC WORKS

CAMPUS DR - 1 PLAN AND PROFILE

FILE <u>502-713</u> SHEET 50 OF 58

A. FOR METHOD "B" CONSTRUCTION, CONTRACTOR TO VERIFY 5-FOOT MINIMUM RADIAL CLEARANCE WITH CRITICAL UTILITIES INCLUDING WATER AND GAS MAINS. VERIFY 5-FOOT MINIMUM HORIZONTAL CLEARANCE WITH BUILDINGS AND FOUNDATIONS. ONLY HAND EXCAVATION IS PERMITTED TO REINSTATE LATERALS ON PRIVATE PROPERTY.





SANITARY SEWER LAYOUT - BUENA VISTA

STATION	NORTHING	EASTING	BEARING OR Δ	DISTANCE	DESCRIPTION
440+00.00	2148232.22	6055010.36	S28°32'11"E	47.29'	MH 17-603-31
440+47.29	2148190 67	6055032 95'	N/A	N/A	MH 17-603-36

PLAN

NOTES:

- 1. FOR GENERAL NOTES SEE SHEET 2 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 AND 8179 OF THE SPECIFICATIONS, AS APPLICABLE.
- 5. IN ACCORDANCE WITH SPECIAL CONDITION NO. 13 IN THE SPECIAL PROVISIONS, PRIOR TO PIPE-BURSTING, 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.
- 6. WORK SHOWN ON THIS SHEET IS LOCATED IN CITY OF BERKELEY FIRE ZONE 2 AND IS SUBJECT TO ALL WORK REQUIREMENTS AND RESTRICTIONS.

FOR CITY USE ONLY REFERENCE SEWER MAP NO. <u>324 (50)</u>

PROJECT MANAGER:	DATE	DEPICTION OF MONUMENTS:	DATE	SUBMITTED:	DATE	DESIGN SMG
		SURVEY CHIEF OF PARTY		SUPERVISING CIVIL ENGINEER	R.C.E. N/A EXP. N/A	DRAWN MC
0 1	2 3	WATERSHED REVIEW:	DATE	APPROVED:	DATE	CHECK ALB
FOR REDUCED PLANS — ORIGINA	AL SCALE IS IN INCHES			CITY FNGINFFR	R.C.EN/A N/A	AS BUILT

WEST YOST Water. Engineered.

HORIZ. __1"=20'

VERT. ___1"=5'

B00K _____

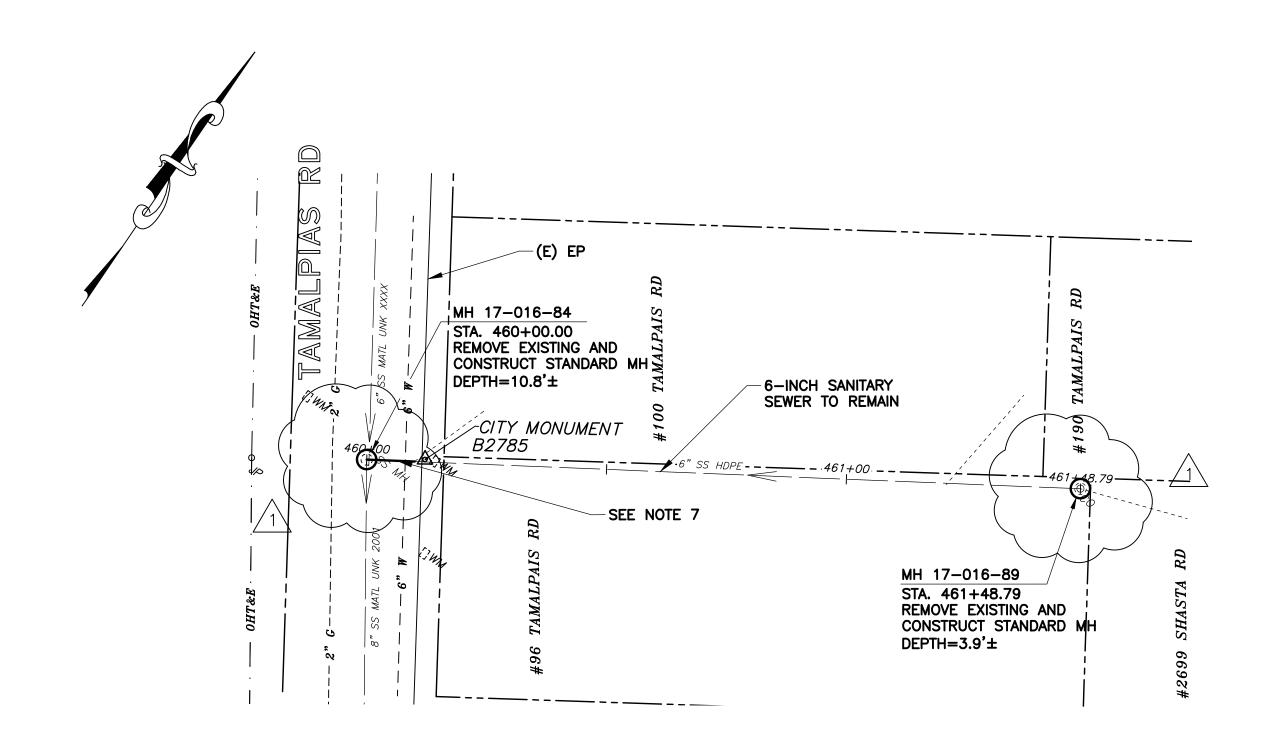
DATE <u>12/2/22</u>

DEPARTMENT OF PUBLIC WORKS

SANITARY SEWER REHABILITATION CITY OF BERKELEY 3082 BUENA VISTA WAY PLAN AND PROFILE

FILE <u>502-713</u>

SHEET 52 OF 58



SANITARY SEWER LAYOUT - TAMALPAIS

STATION	NORTHING	EASTING	BEARING OR Δ	DISTANCE	DESCRIPTION
SIAHON	1401(1111140	LASTING	DEANING ON A	DISTANCE	DESCINI HON
460+00.00	2149600.63	6053907.54	N56°41'04"E	148.79'	MH 17-016-84
461+48.79	2149682.35	6054031.88	N/A	N/A	MH 17-016-89

PLAN

NOTES:

- 1. FOR GENERAL NOTES SEE SHEET 2 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 AND 8179 OF THE SPECIFICATIONS, AS APPLICABLE.
- 5. IN ACCORDANCE WITH SPECIAL CONDITION NO. 13 IN THE SPECIAL PROVISIONS, PRIOR TO PIPE-BURSTING, 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.
- 6. WORK SHOWN ON THIS SHEET IS LOCATED IN CITY OF BERKELEY FIRE ZONE 2 AND IS SUBJECT TO ALL WORK REQUIREMENTS AND RESTRICTIONS.
- 7. REMOVE AND REPLACE 6-INCH VCP SANITARY SEWER STA 460+00± TO 460+10± (METHOD C) GRADE BREAK AT 460+07±.
- 8. ONLY HAND EXCAVATION (METHOD "C") WILL BE ALLOWED FOR WORK LOCATED ON PRIVATE PROPERTY.
- 9. ALL DAMAGED/DISPLACED SURFACE FEATURES AND LANDSCAPING SHALL BE REPLACED IN KIND.

FOR CITY USE ONLY

REFERENCE SEWER MAP NO.

<u>362 (50)</u>

DATE ______ R.C.E. N/A EXP. N/A PROJECT MANAGER: DEPICTION OF MONUMENTS: DATE _ SUBMITTED: DATE __ SURVEY CHIEF OF PARTY SUPERVISING CIVIL ENGINEER WATERSHED REVIEW: DATE ____ APPROVED: FOR REDUCED PLANS - ORIGINAL SCALE IS IN INCHES

VERT. ___1"=5' B00K _____ DATE <u>12/2/22</u>

DESIGN __SMG__

DRAWN MC

CHECK ALB

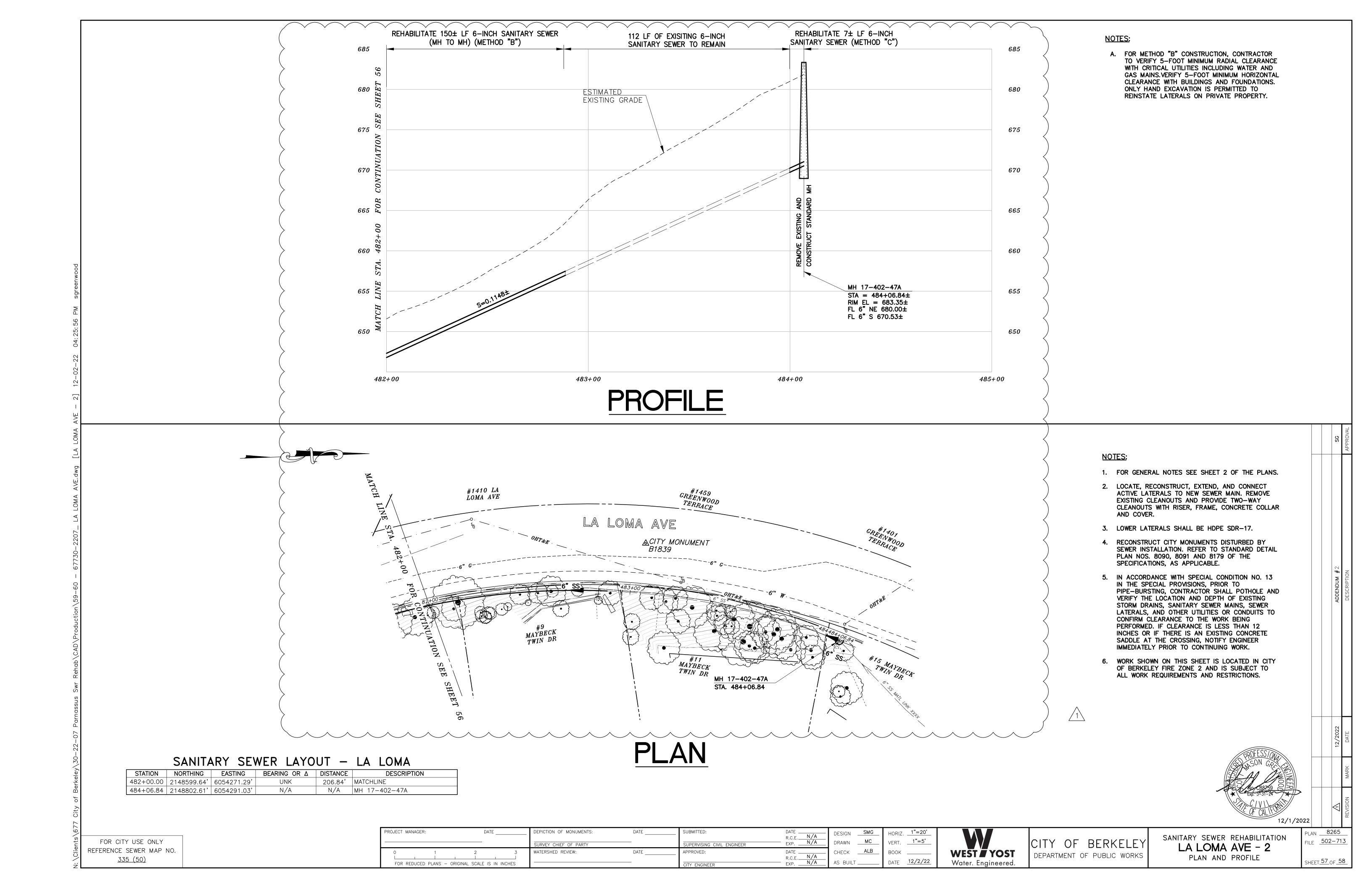
AS BUILT .

WEST YOST Water. Engineered.

CITY OF BERKELEY DEPARTMENT OF PUBLIC WORKS

SANITARY SEWER REHABILITATION 96 TAMALPIAS RD PLAN AND PROFILE

FILE <u>502-713</u> SHEET 54 OF 58



BIDDER'S PROPOSAL (continued)

ITEM	DECORIDATION	ESTIMATED	LDUT	UNIT	TOTAL COST
NO.	DESCRIPTION	QUANTITY	UNIT	COST	TOTAL COST
1.	Mobilization and Demobilization	1	LS	\$	\$
2.	Traffic Control Plan and Provisions	1	LS	\$	\$
3.	Lighted Message board	2	EA	\$	\$
4.	Pre-construction audio/video survey and				
	distribution of public notices	1	LS	\$	\$
5.	Pre-construction closed circuit television				
	inspection and location of active house laterals				
	by CCTV	8,711	LF	\$	\$
6.	Construction staking and cutsheets	1	LS	\$	\$
7a.	Rehabilitate existing maintenance hole, all				
	depths; includes new drop MH installation	58	EA	\$	\$
8a	Construct std. MH, saddle MH, or drop MH,				
	including lining, eccentric cones, all depths	7	EA	\$	\$
9a	Remove existing structures and construct std.	/	EA	Φ	Φ
9a	MH, drop MH, junction box, or lamphole,				
	eccentric cones, all depths	62	EA	\$	\$
9b	Remove existing stucture and construct cleanout,	02	Lit	Ψ	Ψ
	all depths	2 4	EA	\$	\$
10a.	Rehabilitation by Method "A" CIPP for			-	7
	maintaining pipe size from 6 to 6-inch pipe;				
	includes point repair to correct sags	483	LF	\$	\$
11a.	Rehabilitation by Method "B" Pipe Splitting or				
	Other Comparable Method for Increasing Pipe				
	Size From 4-inch to 4-inch, or 4-inch to 6-inch				
	Diameter; Includes Point Repairs to Correct Sags	Not Used	LF	\$	\$
11b.	Rehabilitation by Method "B" Pipe Splitting or	Not Osca	LI	Ψ	J
110.	Other Comparable Method for Increasing Pipe				
	Size From 6-inch to 6-inch, 6-inch to 8-inch, or				
	8-inch to 8-inch Diameter; Includes Point	4 ,741			
	Repairs to Correct Sags	4,539	LF	\$	\$
11c.	Rehabilitation by Method "B" pipe splitting,	•			
	reaming, or other comparable method for				
	increasing pipe size from 8 to 10-inch, or 10-				
	inch to 10-inch Diameter; Includes Point Repairs	Not Used	LF	\$	\$
11d.	Rehabilitation by Method "B" pipe splitting,				
	reaming, or other comparable method for				
	increasing pipe size from 10 to 12, or 12-inch to				
	12-inch Diameter; Includes Point Repair to				
	Correct Sags	298	LF		

BIDDER'S PROPOSAL

(continued)

ITEM NO.	DESCRIPTION	ESTIMATED	UNIT	UNIT	TOTAL COST
		QUANTITY		COST	
12a.	Sewer construction and replacement by Method				
	"C" Traditional Open Trench Method for				
	Increasing Pipe Size from 4-inch to 6-inch or 6-				
	inch to 6-inch Diameter; Includes Point Repair of	72			
	Sags	79	LF	\$	\$
12b.	Sewer construction and replacement by Method				
	"C" Traditional Open Trench Method for				
	Increasing Pipe Size from 6-inch to 8-inch or 8-	645			
	inch to 8-inch; Includes Point Repair of Sags	730	LF	\$	\$
12c.	Sewer construction and replacement by Method				
	"C" Traditional Open Trench Method for				
	increasing pipe size from 8 to 10-inch diameter,				
	or 10-inch to 10-inch; Includes Point Repair for				
	Sags	Not Used	LF	\$	\$
13.	Lower lateral reconstruction (typically 4-inch and				
	6-inch laterals) by Method "C"- Option by pipe				
	rehabilitation Method "B" see Bid Description.	1,162	LF	\$	\$
14.	Installation of two-way cleanouts and lateral risers				
	·	112	EA	\$	\$
15a.	Connection of active laterals to new or				
4 = 1	rehab. Sewer main or MH by open	102	EA	\$	\$
15b.	Connection of active laterals to new or				
	rehab. Sewer main or MH by TopHat or	10	EA	\$	\$
16.	Post-construction closed circuit television				
	inspection	9,777	LF	\$	\$
17.	Remove existing and construct standard curb and				
	gutter	200	LF	\$	\$
18.	Remove existing, and construct standard sidewalk				
	and driveway	Not Used	SF	\$	\$
19.	Utility x-ings not shown and/or identified on the				
	plans, length of x-ing <25 feet, 1/2-6 inch				
	diameter.	5	EA	\$	\$
20.	Utility x-ings not shown and/or identified on the				
	plans, length of x-ing <25 feet, 6-24 inch				
	diameter.	5	EA	\$	\$
21.	Rock excavation	50	CY	\$	\$
22.	Preservation/Reconstruction/				
	Replacement of City monuments.	14	EA	\$	\$
23.	Supplemental Work	1	LS	\$ 500,000	\$ 500,000
24.	BART Permit - Additional provisions and				
	insurance requirements.	Not Used	LS	\$	\$

BIDDER'S PROPOSAL

(continued)

ITEM NO.	DESCRIPTION	ESTIMATED QUANTITY	UNIT		UNIT COST		TOTAL COST
25.	Caltrans Permit - Additional provisions and						
	insurance requirements	Not Used	LS	\$		\$	
26.	EBRPD Permit - Additional provisions and						
	insurance requirements.	Not Used	LS	\$		\$	
27.	Stormwater Pollution Control and Sewage Spill						
	Prevention and Response Requirements	1	LS	\$		\$	
28.	Sewer Bypass (for Sewer Mains 27" and Larger)						
		Not Used	LS	\$		\$	
29.	Investigate existing sewer mains, structures, and						
	laterals.	1	LS	\$		\$	
30.	California Dept of Fish and Wildlife, Creek						
	Permit - Additional Requirements For Work						
	Adjacent to City's Creek	1	LS	\$		\$	
31.	Point (Spot) Repair	18	EA				
32.	Plug and abandon existing sewer mains, sewer						
	structure and laterals	1	LS	\$		\$	
33.	Remove, recompact and repave existing asphalt						
	pavement. Match existing or 4" AC over 8" AB						
	with 95% compacted subgrade, whichever is						
	greater.	5,000	SF	\$		\$	
34.	Concrete encasement of 6-inch or greater	•					
	pipe	20	LF	\$		\$	
TOTAL COST				\$			

TOTAL BID PRICE IN WORDS AND IN FIGURES:		
DOLLARS AND	CENTS/(\$)

BID ITEM NO. 34: CONCRETE ENCASEMENT OF 8-INCH OR GREATER PIPE PER CITY'S STANDARD DETAIL "CONCRETE ENCASEMENT AND BEDDING"

This item shall include all materials, labor, and other work associated with the concrete encasement of 8-inch and greater pipe as shown in the plans and in accordance with the City of Berkeley's standard detail "Concrete Encasement and Bedding". Materials, labor, and other work associated with the pipe rehabilitation shall be included with Bid Item No. 12.

Measurement for payment shall be per Linear Foot (LF). The Contractor shall be paid on the basis of work completed as noted on the monthly submission of progress payment. Payment includes As-Built submittals to the City.

Special Condition No. 41: CONSTRUCTION PHASING AND COORDINATION

Maintenance hole replacement and rehabilitation work and spot repairs not associated with full sewer main rehabilitation shall be the first order of business. These areas include:

- **Sheet 5 -** Marin Ave from MH 17-713-04A to MH 17-713-03B
- **Sheet 6 -** Keeler Ave from MH 17-713-54 to MH 17-713-53 and MH 17-713-50
- **Sheet 6 -** Forest Ln at MH 17-713-52 to MH 17-713-51
- Sheet 7 Creston Rd and Forest Ln from MH 17-713-92A to MH 17-713-91
- **Sheet 8 -** Creston Rd from MH 17-713-94 to MH 17-713-94A
- Sheet 9 Creston Rd and Grizzly Peak Blvd from MH 17-713-74 to 17-713-16
- Sheet 11 Latham Ln and Creston Rd from MH 17-713-B2 to MH 17-713-17
- Sheet 12 Overlook Rd and The Crossways from MH 17-021-C4 to 17-021-B9
- **Sheet 13 -** Overlook Rd from MH 17-021-D4 to MH 17-021-D7
- Sheet 14 Wildcat Canyon Rd from MH 17-021-S2 to MH 17-021-42
- **Sheet 16 -** Miller Ave from 17-701-39 to 17-701-31
- Sheet 17 Grizzly Peak Blvd and Ina Coolbrith Path from MH 17-701-32A to MH 17-701-32
- **Sheet 18 -** Anne Brower Path from MH 17-701-40 to MH 17-701-27
- **Sheet 19 -** Stevenson Ave from MH 17-701-30 to MH 17-701-28
- Sheet 20 Stoddard Path and Grizzly Peak Blvd from MH 17-702-35 to MH 17-702-39
- **Sheet 22 -** Sterling Ave at MH 17-702-21
- Sheet 23 Campus Dr At MH 17-702-A4 and MH 17-605-87
- **Sheet 24 -** Shasta Rd from MH 17-702-72 to MH 17-702-31
- **Sheet 29 -** Fairlawn Dr from MH 17-604-K1 to MH 17-604-K2
- Sheet 37 Harvard Cir and Avenida Dr from MH 17-605-54 to MH 17-605-83
- **Sheet 53 -** Tamalpais Rd from MH 17-016-86 to MH 17-016-85
- **Sheet 54 -** Tamalpais Rd from MH 17-016-84 to MH 17-016-89

Special Condition No. 44: HIGH DENSITY POLYETHYLENE MAINTENANCE HOLES

Contractor shall provide High Density Polyethylene Maintenance Holes (HDPE) in locations designated on the Contract Plans or at locations where standard Maintenance Holes cannot be constructed due to access restrictions. The HDPE maintenance holes shall be provided by Fibertech Inc. (Rhino Maintenance Holes) or approved equal.

1. Materials

The HDPE Maintenance Holes shall be produced using polyethylene compounds conforming to the requirement of cell classification 334433C per ASTM D-3350. No reworked or reprocessed materials will be allowed. An ultraviolet stabilizer with a rating of UV-12 or higher is required.

Maintenance hole walls shall have a nominal wall thickness of 0.5-inches and homogenous throughout. Interior and exterior surfaces shall be free of foreign inclusions and surface defects. Anchor rings shall be at each joint and extend 2.5" from maintenance hole outside diameter. Stiffener rings shall be equal to or less than 24 inches apart, longitudinally and circumferentially around the barrel.

Segmented maintenance hole joints shall be bell-and-spigot with a 'U' shaped gasket conforming to ASTM F-477.

Materials shall meet the following requirements of D-1056-B, D-1056, and D-1149.

2. Installation

- a. Alterations Contractor shall not alter the design or construction of maintenance hole without notification to the City.
- b. Bedding Maintenance hole base shall be installed on a flat trench bottom with 6-inches (minimum) of Class 2 Aggregate Base. Unsuitable soil foundation shall be scarified, removed and replaced with select native soil or granular material and compacted to 95% Standard Proctor Density.
- c. Concrete Base Maintenance hole installation shall include an external precast or cast-in-place reinforced concrete base sufficient to provide structural support and prevent buoyancy from groundwater at rim elevation. Reinforcement of base to adhere to City standard plan 7895. Typical bases are poured on the prepared bedding in a square footprint with minimum thickness of 12 inches underneath the maintenance hole. Concrete pour shall extend up along the maintenance hole base's sidewall (over external base anchor ring) for a minimum 6-inches above the base anchor ring.

d. Backfill Material – Unless shown otherwise on the contract plans, HDPE maintenance holes shall be backfilled with controlled low-strength material as described in Section 201-6 of these specifications. Prevent floatation of the structure by placing CLSM in tow or more lifts, with each lift reaching an initial set before the succeeding lift is placed. Correct any floatation and displacement of structure or pipelines.

3. Field Testing

Testing shall include subjecting the installed maintenance hole to a vacuum of 10-inches of mercury and measuring time for vacuum to drop 9-inches. The measured time must be greater than 60-seconds.

BID ITEM NO. 15: CONNECTION OF ACTIVE LATERALS TO NEW OR REHABILITATED SANITARY SEWER MAIN OR MAINTENANCE HOLE

Contractor is responsible for reconnecting all active sewer laterals to the new or rehabilitated sewer mains and maintenance holes. This item shall include all labor, materials and equipment necessary for preparation of maintenance hole or new sewer main for lateral connection; lateral connection including butt fusion, saddle or wye, and miscellaneous materials; use of in situ cutter, bedding, excavation, backfill including imported backfill; dewatering, flow control, diversion or bypass pumping, testing, compaction, and temporary and permanent resurfacing to match existing improvements. The contractor is responsible for locating all active sanitary sewer laterals connecting to rehabilitated sewer main or maintenance hole prior to construction. Payment for locating active sewer laterals is included as part of Bid Item No. 5.

Sanitary sewer lateral connection(s) to HDPE mains shall be in accordance with Sections 500-1.6.6 and 500-1.6.12 of the "Regional Standards", June 30, 2016 Edition.

Sanitary sewer lateral connection(s) to CIPP lined mains shall be in accordance with details shown on Plans as follows:

- For 8-inch mains or larger, reconnection to the rehabilitated main shall be performed by excavating down to the main and using an Inserta Tee or approved equal.
- For 6-inch mains where the connection is an existing factory connection or fitting, TopHat or approved equal shall be used.
- For 6-inch mains where the existing connection is not a factory connection (break-in), a tee or wye fitting shall be installed prior to lining the main and TopHat or approved equal shall be installed after the main is lined.

For laterals rehabilitated via Method "A" CIPP liner (only allowed where indicated on the plans), this item includes the installation of TopHat or approved equal at connections where shown on the Plans.

Measurement for payment shall be as follows:

Bid Item No. 15a: Lateral connections performed using an open cut excavation

Bid Item No. 15b: Lateral connections performed using TopHat or approved equal

Payment includes all As-Built drawings and completion of "Sewer lateral As-Built Record" Forms.