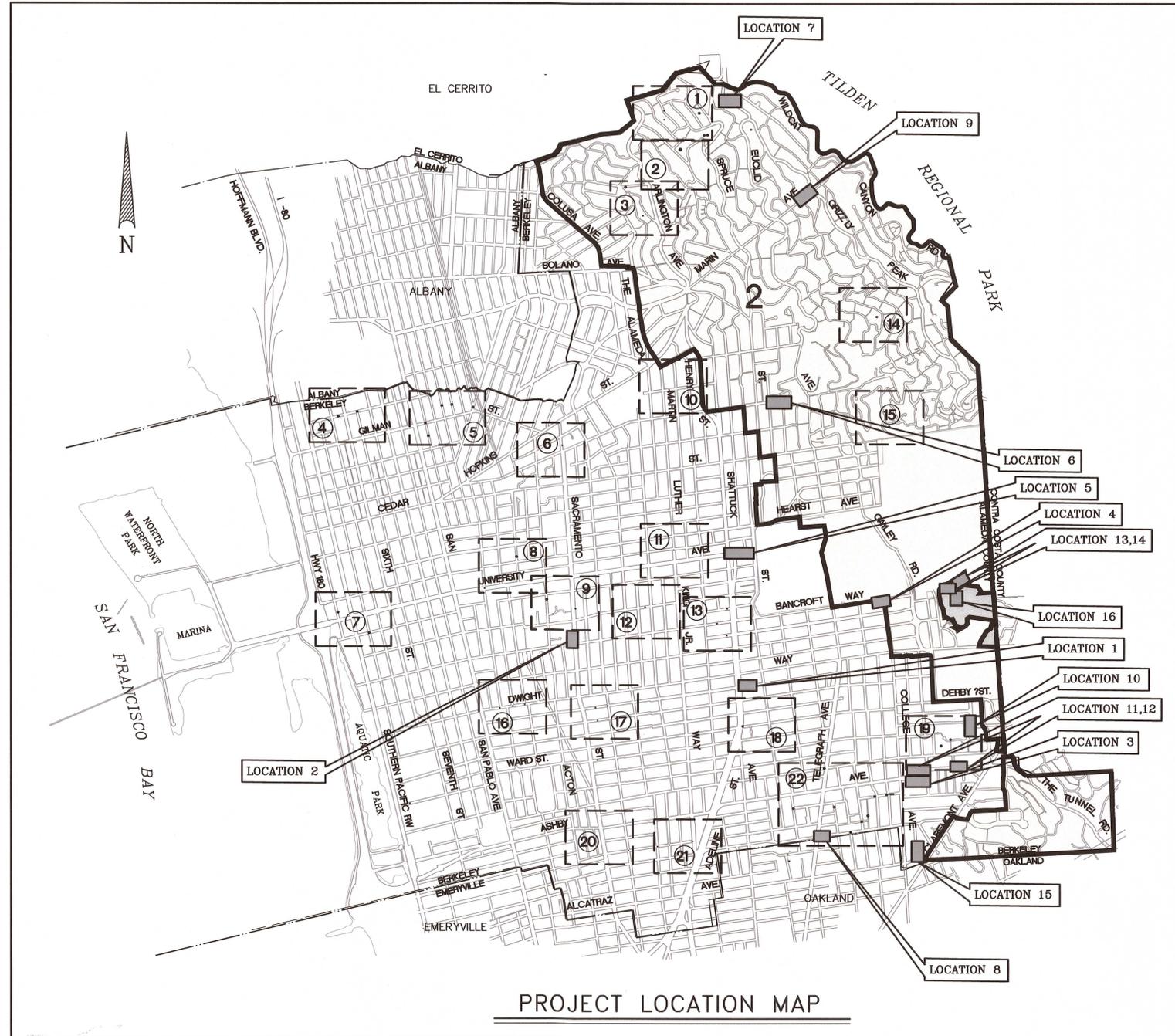


CITY OF BERKELEY, CALIFORNIA

SANITARY SEWER REHABILITATION AND REPLACEMENT

URGENT SEWER PROJECT FY 2023

SPECIFICATION NO. 23-11544-C



INDEX OF DRAWINGS

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LEGEND

-  FIRE ZONE 2
-  FIRE ZONE 3
-  POINT REPAIR LOCATION
-  MAINTENANCE HOLE REPAIR AND REHABILITATION LOCATION MAP



REVISION	MARK	DATE	DESCRIPTION	APPROVAL

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PROJECT MANAGER: <i>Abdul Samad</i>	DEPICTION OF MONUMENTS: <i>Joe Ehr</i> 15 7169	DATE 10-26-22	SUBMITTED: <i>Daniel M. Akagi</i>	DATE 25 OCT 22	DESIGN AY	HORIZ. -	CITY OF BERKELEY DEPARTMENT OF PUBLIC WORKS	SANITARY SEWER REHABILITATION URGENT SEWER REPAIR PROJECT FY 2023 TITLE, VICINITY, LOCATION MAP AND INDEX	PLAN 8264
DATE 10-25-22	SURVEY PARTY CHIEF: <i>Joe Ehr</i>	DATE 10/25/22	SUPERVISING CIVIL ENGINEER	R.C.E. 37829	DRAWN PW	VERT. -			FILE 502-712
WATERSHED REVIEW: <i>Chris Doherty</i>		DATE 10/25/22	APPROVED: <i>Joe Ehr</i>	DATE 10-26-22	CHECK DA	BOOK	CITY OF BERKELEY DEPARTMENT OF PUBLIC WORKS	SANITARY SEWER REHABILITATION URGENT SEWER REPAIR PROJECT FY 2023 TITLE, VICINITY, LOCATION MAP AND INDEX	G1
FOR REDUCED PLANS - ORIGINAL SCALE IS IN INCHES		DATE 10/25/22	CITY ENGINEER	R.C.E. 49027	AS BUILT	DATE 09/08/2022			SHEET 1 OF 9

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GENERAL NOTES

1. THE LOCATIONS AND/OR ELEVATIONS OF UNDERGROUND UTILITIES AND SUBSTRUCTURES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT 811 OR (800) 227-2600 AT LEAST FOUR WORKING DAYS BEFORE EXCAVATING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE EXISTING UTILITIES IN ACCORDANCE WITH SPECIFICATIONS.

2. THE CONTRACTOR SHALL NOTE THAT OVERHEAD UTILITIES, UNDERGROUND CABLE TELEVISION LINES, GAS AND WATER SERVICES, IF ANY, ARE NOT SHOWN ON THE PLANS. IF SHOWN ON THE PLANS, THE CITY ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF SUCH MATERIAL OR INFORMATION. CABLE TV LINES, IF PRESENT, ARE SOMETIMES LOCATED IN COMMON TRENCHES WITH OTHER UNDERGROUND UTILITIES. THE CONTRACTOR SHALL INCLUDE THESE CONSIDERATIONS IN HIS ESTIMATE OF WORK.

3. THE CONTRACTOR SHALL PROTECT ALL EXISTING IMPROVEMENTS NOT DESIGNATED FOR REMOVAL AND SHALL RESTORE DAMAGED OR TEMPORARILY RELOCATED IMPROVEMENTS TO A CONDITION EQUAL TO OR BETTER THAN THEY WERE PRIOR TO SUCH DAMAGE OR TEMPORARY RELOCATION.

4. PIPE LENGTHS SHOWN ON THE PLANS ARE THE APPROXIMATE HORIZONTAL DISTANCES BETWEEN CENTER LINE OF MAINTENANCE HOLES. THE CONTRACTOR SHALL NOTE THAT MEASUREMENT FOR PAYMENT WILL BE THE ACTUAL LINEAR FOOTAGE INSTALLED.

5. NEW PRECAST MAINTENANCE HOLES SHALL BE THE ECCENTRIC-TAPER TYPE, UNLESS OTHERWISE NOTED.

6. NEW MH LOCATIONS ARE APPROXIMATE AND IN SOME CASES MAY BE ALTERED TO MINIMIZE PIPE CUTTING OR FOR OTHER REASONS IF APPROVED BY THE ENGINEER.

7. THE CONTRACTOR SHALL INSTALL NEW MAINTENANCE HOLES IN EXISTING SANITARY SEWER LINES AS SHOWN ON THE PLANS. THE INVERT ELEVATIONS OF THE EXISTING PIPE SHALL BE MAINTAINED AT THE LOCATION OF THE NEW MAINTENANCE HOLE UNLESS OTHERWISE NOTED.

8. WHERE REQUIRED ON THE PLANS, THE EXISTING PIPES SHALL BE REMOVED AND NEW PIPES SHALL BE CONSTRUCTED IN THEIR PLACES. IF A PROFILE OF THE NEW PIPE IS NOT SHOWN, THE CONTRACTOR SHALL SURVEY THE INVERTS AT EACH END OF THE PIPES PRIOR TO ITS REMOVAL AND THEN INSTALL THE NEW PIPE ON A UNIFORM GRADE BETWEEN THE SAME INVERTS.

9. ALL NEW DROP MAINTENANCE HOLES SHALL BE OUTSIDE DROP WITH CONCRETE ENCASEMENT. SEE STANDARD DETAIL DRAWING IN THE SPECIFICATIONS.

10. PROVIDE FLEXIBLE JOINTS FOR ALL MAINTENANCE HOLES IN ACCORDANCE WITH SUBSECTION 303-8.7 OF THE TECHNICAL PROVISIONS.

11. MATERIALS AND INFORMATION FURNISHED BY THE CITY, INCLUDING ACCESS TO ANY AVAILABLE TAPES AND BORING REPORTS, ARE FOR THE CONVENIENCE OF THE BIDDER OR CONTRACTOR.

12. SETTLEMENT OF TRENCH PAVEMENT, INCLUDING ASPHALT RESURFACING, ASSOCIATED WITH THE WORK OCCURRING WITHIN A PERIOD OF ONE YEAR AFTER COMPLETION OF THE WORK SHALL BE REPAVED AND RESURFACED AT THE CONTRACTOR'S OWN EXPENSE. THIS WORK IS TO BE TO THE SATISFACTION OF THE ENGINEER. THIS IS TO BE AN INCLUSIVE PROVISION UNDER SUBSECTION 801.13 OF THE GENERAL PROVISIONS.

13. WHERE SHOWN ON THE PLANS, THE CONTRACTOR SHALL REMOVE THE EXISTING LAMPHOLE OR MAINTENANCE HOLE AND CONSTRUCT A NEW MAINTENANCE HOLE IN ITS PLACE. THE NEW MAINTENANCE HOLE SHALL BE CONSTRUCTED TO THE INVERT ELEVATIONS AS SHOWN ON THE DRAWINGS UNLESS OTHERWISE NOTED.

14. EXISTING UNDERGROUND UTILITIES AND STRUCTURES HAVE BEEN LOCATED FROM EVIDENCE ON THE SURFACE OF THE SITE AND FROM AVAILABLE RECORDS. BEFORE COMMENCING CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL EXISTING FACILITIES WITHIN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL EXPOSE BURIED STRUCTURES AND UTILITIES AS NEEDED TO VERIFY LOCATIONS AND ELEVATIONS.

15. CONTRACTOR SHALL INSTALL LOCATING WIRE ON NEW PIPES IN ACCORDANCE WITH THE SPECIFICATIONS.

16. CONTRACTOR SHALL FURNISH ONE (1) SET OF MARKED PLANS SHOWING ALL AS-BUILTS MADE DURING THE COURSE OF CONSTRUCTION, INCLUDING LATERAL LOCATION, UPON COMPLETION OF WORK. THE CONTRACTOR SHALL MAINTAIN AND FURNISH RECORDS IN ACCORDANCE WITH SUBSECTION 401.15 OF THE GENERAL PROVISIONS AND SPECIAL CONDITION NO. 8 OF THE SPECIAL PROVISIONS.

17. THE CONTRACTOR SHALL MAINTAIN THE PROJECT SITE IN A NEAT AND ORDERLY CONDITION THROUGHOUT THE CONSTRUCTION PERIOD IN ACCORDANCE WITH SUBSECTIONS 401.6, 401.7 AND 401.7-1 OF THE GENERAL PROVISIONS AND SPECIAL CONDITIONS NO. 6 AND 7 OF THE SPECIAL PROVISIONS.

CONTRACTOR SHALL PERFORM FINAL SWEEPING AND CLEANUP OF ALL STREETS AND SIDEWALKS AFFECTED BY THE CONSTRUCTION UPON COMPLETION OF CONSTRUCTION. FINAL CLEANUP SHALL BE IN ACCORDANCE WITH SUBSECTION 401.13 OF THE GENERAL PROVISIONS.

THE CONTRACTOR IS NOT ALLOWED TO USE WATER TO CLEAN THE STREET PAVEMENT SURFACE THAT WOULD VIOLATE CITY OF BERKELEY MUNICIPAL CODE CHAPTER 17.20.

18. TEMPORARY BITUMINOUS SURFACING AND CLEAN UP OF THE WORK SHALL BE INSPECTED AND MAINTAINED DAILY BY THE CONTRACTOR. CONTRACTOR WILL BE CHARGED BY DEDUCTIONS FROM PAYMENTS DUE ON THE CONTRACT AT THE RATE AND SURCHARGE DESIGNATED IN SPECIAL CONDITIONS NOS. 6 & 7 FOR NON-COMPLIANCE.

19. PIPE TYPES TO BE USED FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH SUBSECTION 207-19 AND 207-25 OF THE TECHNICAL PROVISIONS.

20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING STAKES AND MARKERS FOR EXECUTION AND COMPLETION OF THE WORK. THE WORK SHALL BE IN ACCORDANCE WITH THE LINES, ELEVATIONS AND GRADES 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.

21. DECISION FOR DETERMINING CLASSIFICATION OF SPECIAL HARD ROCK MATERIAL FOR PAYMENT UNDER BID ITEM "ROCK EXCAVATION" SHALL BE BY THE ENGINEER. MATERIALS CLASSIFIED AS ROCK ARE IGNEOUS, METAMORPHIC AND SEDIMENTARY ROCK AS WELL AS LARGE MASSES OF STONY MATERIAL AND BOULDERS WHICH CANNOT BE EXCAVATED WITHOUT UTILIZING HEAVY DUTY RIPPING EQUIPMENT AND JACK HAMMERS. TO PREVENT FUTURE CONFLICT REGARDING QUANTITIES OF ROCK EXCAVATION, DAILY RECORDS OF ROCK EXCAVATION SHALL BE SUBMITTED BY THE CONTRACTOR.

22. ALL CITY OF BERKELEY MONUMENTS LOCATED WITHIN THE PROJECT AREA MUST BE REFERENCED, PRIOR TO WORK COMMENCING, BY A LICENSED LAND SURVEYOR AS REQUIRED BY SECTION 8771 OF THE BUSINESS AND PROFESSIONS CODE, CORNER RECORDS OF THIS WORK MUST BE SUBMITTED FOR FILING TO BOTH THE COUNTY SURVEYOR OF ALAMEDA COUNTY, AND THE CITY OF BERKELEY, PUBLIC WORKS DEPARTMENT, ENGINEERING DIVISION, SURVEY SECTION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF EXISTING SURVEY MONUMENTS, BENCHMARKS, REFERENCE POINTS AND STAKES. SHOULD ANY SURVEY MONUMENTS, BENCHMARKS, REFERENCE POINTS, OR STAKES BE DAMAGED OR DESTROYED DURING THE PERFORMANCE OF THIS WORK, THE CONTRACTOR SHALL REPLACE SAID ITEMS PER CITY STANDARDS IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND CONTACT A CITY OF BERKELEY, SURVEY SECTION, CHIEF OF PARTY FOR FINAL INSPECTION AND ACCEPTANCE OF THE WORK.

23. RIGHT OF WAY LINES AND PROPERTY LINES SHOWN ARE APPROXIMATE.

24. EXCAVATION LOCATIONS REQUIRED FOR SET-UP AND PLACEMENT OF EQUIPMENT NEEDED FOR PIPE SPLITTING AND PIPE LOWERING SHALL BE DETERMINED BY THE CONTRACTOR UNDER MEANS AND METHODS.

25. THE CONTRACTOR SHALL CONTACT THE CITY OF BERKELEY ARBORIST AT LEAST 48 HOURS IN ADVANCE OF PERFORMING WORK UNDER THE DRIP LINE OF EXISTING STREET TREES AND WHEN EXCAVATION IS PLANNED WITHIN THE ROOT SYSTEM OF THE TREE. THE CITY ARBORIST WILL REVIEW EACH LOCATION ON A CASE-BY-CASE BASIS TO CONFIRM THE ALLOWABLE EXTENT OF ROOT AND BRANCH PRUNING REQUIRED.

26. THE CONTRACTOR SHALL CONTACT AC TRANSIT AT LEAST 48 HOURS IN ADVANCE OF PERFORMING WORK SHOULD ANY STREET OR LANE CLOSURES REQUIRE RE-ROUTING OF PUBLIC TRANSIT.

27. UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL ADHERE TO THE CITY'S HOLIDAY AND REDUCED SERVICE DAYS SCHEDULE PER THE HOLIDAYS SECTION OF THE SPECIAL PROVISIONS. IN ADDITION, UNLESS OTHERWISE APPROVED IN ADVANCE BY THE CITY'S TRAFFIC ENGINEER, LANE CLOSURES ON MAJOR STREETS AND COLLECTOR STREETS (MARTIN LUTHER KING JR. WAY, ADELIN STREET, ALCATRAZ AVENUE, ETC.) ARE PROHIBITED DURING MORNING AND EVENING COMMUTE HOURS PER SECTION 24.2 OF THE SPECIAL CONDITIONS IN THE SPECIAL PROVISIONS.

28. EXISTING SANITARY SEWER LATERALS SHOWN WITH A (R) SYMBOL REPRESENT A LATERAL WHICH A CLEANOUT WAS NOT LOCATED IN THE FIELD BUT IS SHOWN ON CITY RECORD MAPS. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING SANITARY SEWER LATERALS IN THE FIELD VIA PRE-CONSTRUCTION CCTV AND INSTALL NEW SANITARY SEWER LATERAL WITH CLEANOUT PER THE SPECIAL PROVISIONS IN THE PROJECT SPECIFICATIONS.

29. CONTRACTOR SHALL, AT NO EXTRA COST TO THE CITY, REPAIR TO ORIGINAL CONDITION ANY SURFACE DAMAGES AS A RESULT OF GROUND HEAVE FROM METHOD "B" REHABILITATION. THIS INCLUDES RESTORATION OF GRADING, PAVING, SIDEWALKS, DRIVEWAYS, CURB, GUTTER, STRIPING, LANDSCAPING OR ANY OTHER SURFACE FEATURE DAMAGED BY METHOD "B" REHABILITATION.

ABBREVIATIONS

ABAN	ABANDONED	MAX	MAXIMUM
AC	ASPHALT CONCRETE	MH	MAINTENANCE HOLE
APPD	APPROVED	MIN	MINIMUM
APPROX	APPROXIMATE	MISC	MISCELLANEOUS
		MON	CITY SURVEY MONUMENT
BC	BEGIN CURVE	N	NORTH
BLVD	BOULEVARD	N/A	NOT APPLICABLE
BM	BENCHMARK	NIC	NOT IN CONTRACT
BOL	BOLLARD	NTS	NOT TO SCALE
BOT	BOTTOM		
C OR CATV	CABLE TELEVISION	OD	OUTSIDE DIAMETER
CB	CATCH BASIN	OF	OVERFLOW
CC	CENTER TO CENTER	OHE	OVERHEAD ELECTRICITY
CE	CONSTRUCTION EASEMENT	OHT	OVERHEAD TELEPHONE
C&G	CURB AND GUTTER	OUT	OUTLET
CIP	CAST IRON PIPE		
CK	CULVERTED CREEK	PCC	POINT OF COMPOUND CURVE
CL	CENTERLINE	PE	POLYETHYLENE
CLR	CLEARANCE	PG&E	PACIFIC GAS AND ELECTRIC
CO	CLEANOUT	PL	PROPERTY LINE
CONC	CONCRETE	PI	POINT OF INTERSECTION
CONN	CONNECTION	PP	POWER POLE
CONT	CONTINUOUS OR CONTINUATION	PT	POINT
CP	CONTROL POINT	PRC	POINT OF REVERSE CURVE
CR	CURB RAMP	PVC	POINT OF VERTICAL CURVE
CTR	CENTER		OR POLYVINYL CHLORIDE
		PVMT	PAVEMENT
DET	DETAIL		
DI	DROP INLET	RAD	RADIUS
DIA., Ø	DIAMETER	RCP	REINFORCED CONCRETE PIPE
DIP	DUCTILE IRON PIPE	RD	ROAD
DR	DRAIN	RR	RAILROAD
DWG(S)	DRAWING(S)	R/W	RIGHT-OF-WAY
DWY	DRIVEWAY		
E	EAST OR ELECTRICITY	S	SOUTH OR SLOPE
EA	EACH	SD	STORM DRAIN
EBMUD	EAST BAY MUNICIPAL UTILITY DISTRICT	SDR	STANDARD THERMOPLASTIC
EC	END CURVE		PIPE DIMENSION RATIO
ECC	ECCENTRIC	SECT	SECTION
EL	ELEVATION	SHT	SHEET
ELEC	ELECTRICITY	SIG	TRAFFIC SIGNAL POLE
EP	EDGE OF PAVEMENT	SLB	STREET LIGHT BOX
EX	EXISTING	SPECS	SPECIFICATIONS
		SS	SANITARY SEWER
FG	FINISHED GRADE	STA	STATION
FH	FIRE HYDRANT	STD	STANDARD
FIN	FINISHED		
FL	FLOW LINE	T	TELEPHONE
FM	FORCE MAIN	T&B	TOP AND BOTTOM
FT	FOOT OR FEET	TC	TOP OF CURB OR CONCRETE
		TEL	TELEPHONE
G	GAS	TP	TELEPHONE POLE
GM	GAS METER	TSB	TRAFFIC SIGNAL BOX
GV	GAS VALVE	TYP	TYPICAL
GVL	GRAVEL		
		UG	UNDERGROUND
HDPE	HIGH DENSITY POLYETHYLENE PIPE	U	UTILITY
HORIZ	HORIZONTAL		
HP	HIGH POINT	V	VAULT
		VAR	VARIABLE
ID	INSIDE DIAMETER	VERT	VERTICAL
IN	INLET OR INCH	VCT	VITRIFIED CLAY PIPE
INV	INVERT		
		W	WEST OR WATER
JB	JUNCTION BOX	WM	WATER METER
JP	JOINT UTILITY POLE	WV	WATER VALVE
JT	JOINT	YD	YARD
LF	LINEAR FEET		
LH	LAMPHOLE		
LP	LOW POINT OR LIGHT POLE		
LT	LEFT		

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

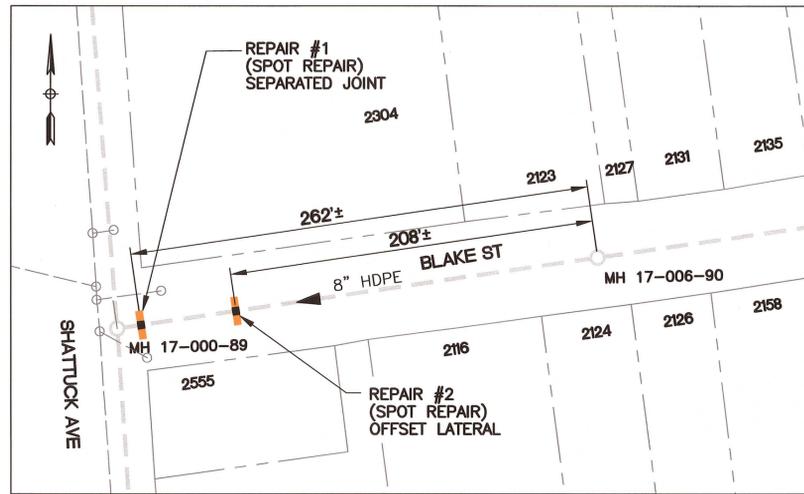
	REMOVE EXISTING SEWER AND CONSTRUCT NEW SANITARY SEWER
	PLUG & ABANDON EXIST SANITARY SEWER
	EXIST MAINTENANCE HOLE TO BE REPLACED
	EXIST MAINTENANCE HOLE TO BE REHABILITATED
	NEW MAINTENANCE HOLE
	EXISTING MAINTENANCE HOLE
	EXISTING SANITARY SEWER W/CLEANOUT
	EXISTING SANITARY SEWER W/LAMPHOLE
	EXISTING SANITARY SEWER W/MAINTENANCE HOLE
	EXISTING STORM DRAIN SEWER W/MAINTENANCE HOLE
	EXISTING STORM DRAIN SEWER W/CATCH BASIN
	EXISTING CULVERTED CREEK
	EXISTING ELECTRICITY
	EXISTING GAS LINE W/VALVE
	EXISTING WATER LINE W/VALVE AND FH
	MATCH LINE
	CENTER LINE
	PROPERTY LINE
	COORDINATE TICK MARK
	STREET LIGHT W/POLE
	TRAFFIC SIGNAL W/POLE
	POWER &/OR TELEPHONE POLE W/ GUY
	TREE
	SOIL BORING
	POTHOLE
	LIGHT POLE
	TRAFFIC SIGNAL
	STANDARD CITY WELL MONUMENT
	STANDARD CITY DISC MONUMENT

Adrian M. ...

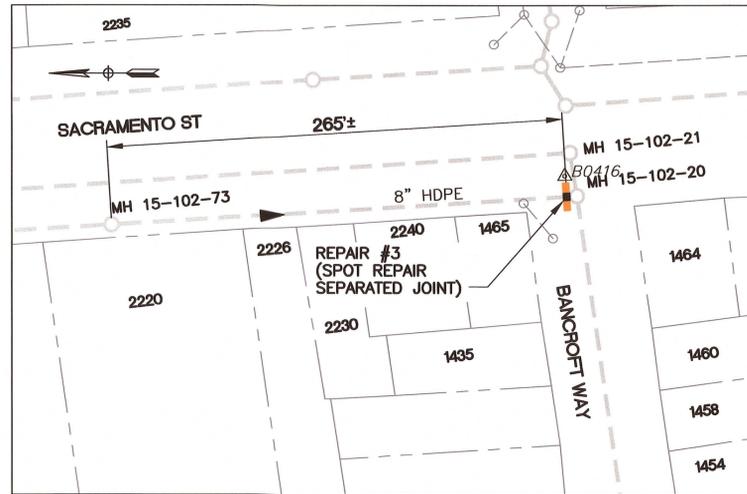
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DATE: _____	SURVEY PARTY CHIEF: _____	DATE: _____	SUPERVISING CIVIL ENGINEER: _____	DATE: _____	DRAWN: <u>PW</u>	VERT: <u>NONE</u>			FILE: <u>502-712</u>
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			CITY ENGINEER: _____	DATE: <u>09/05/22</u>	AS BUILT: _____				

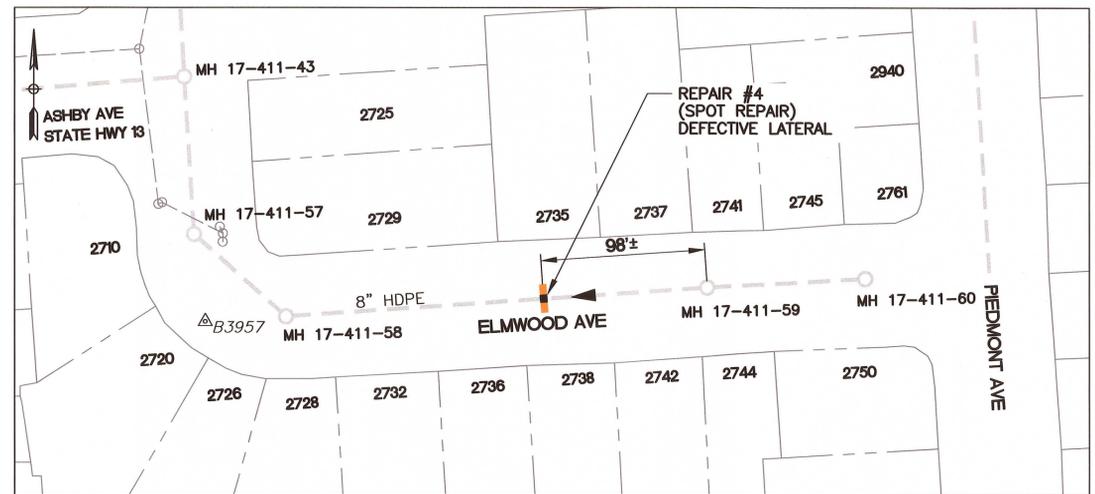
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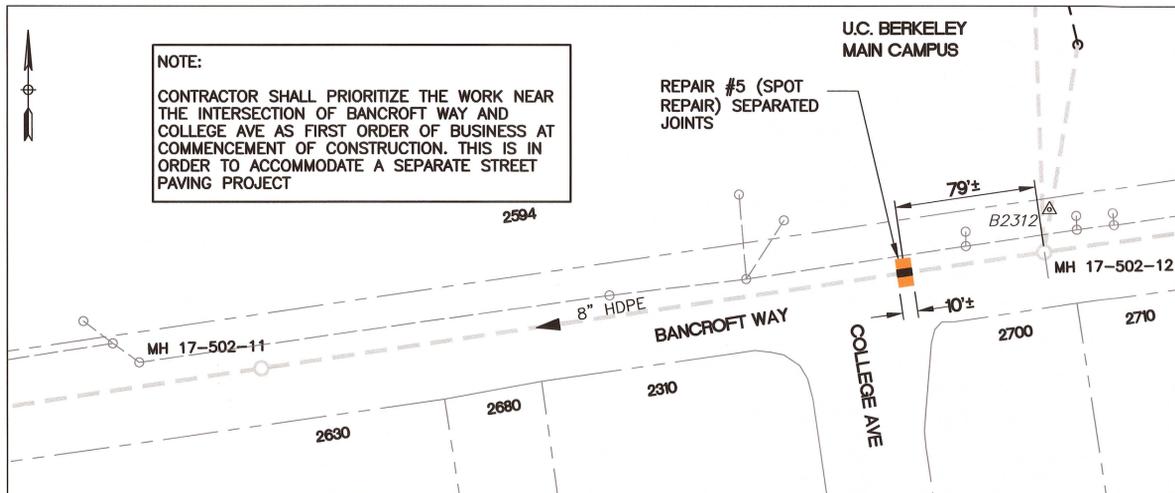
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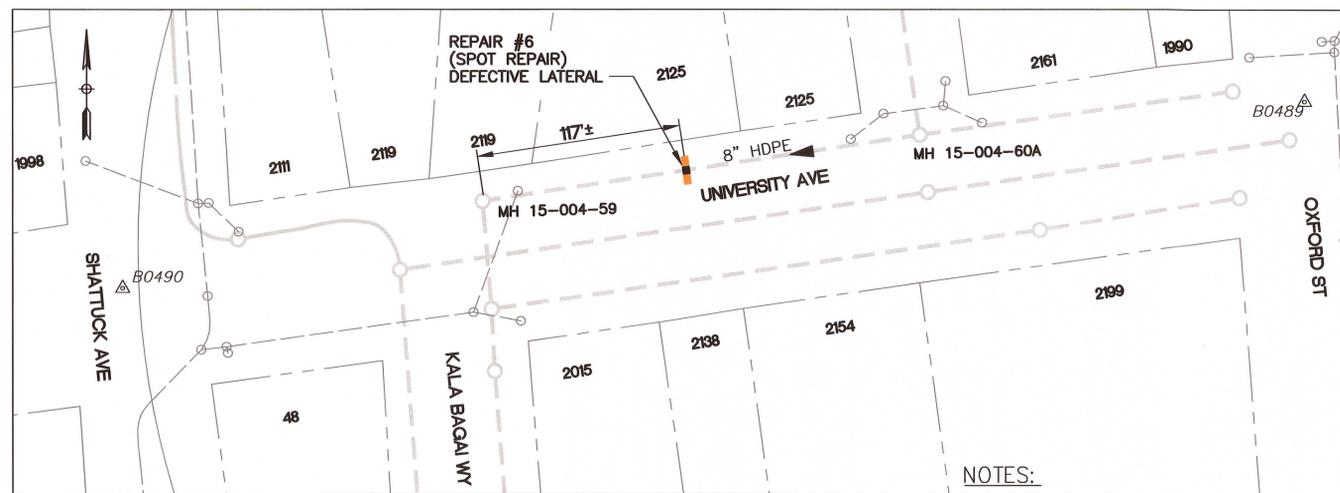
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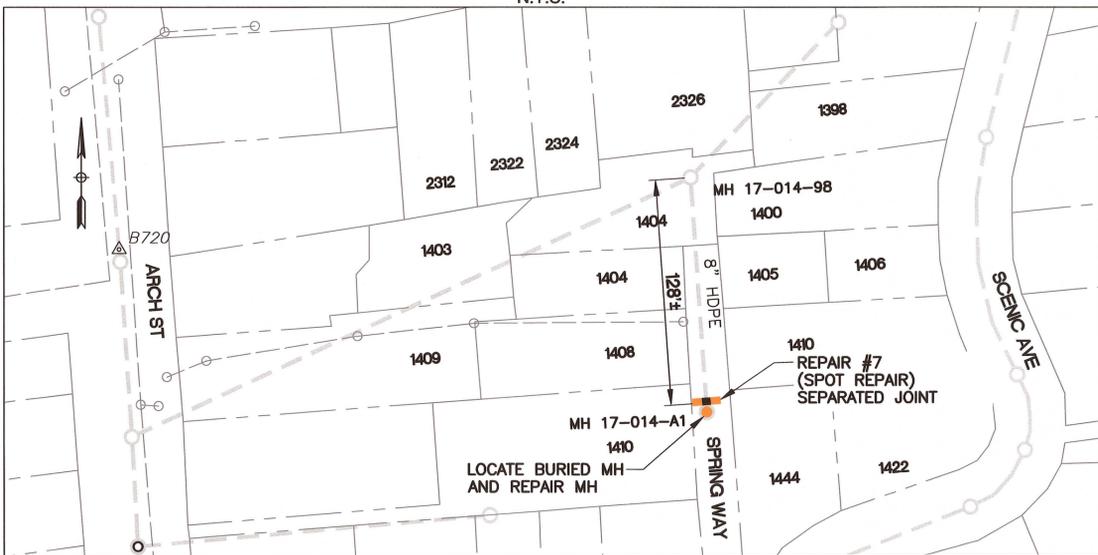
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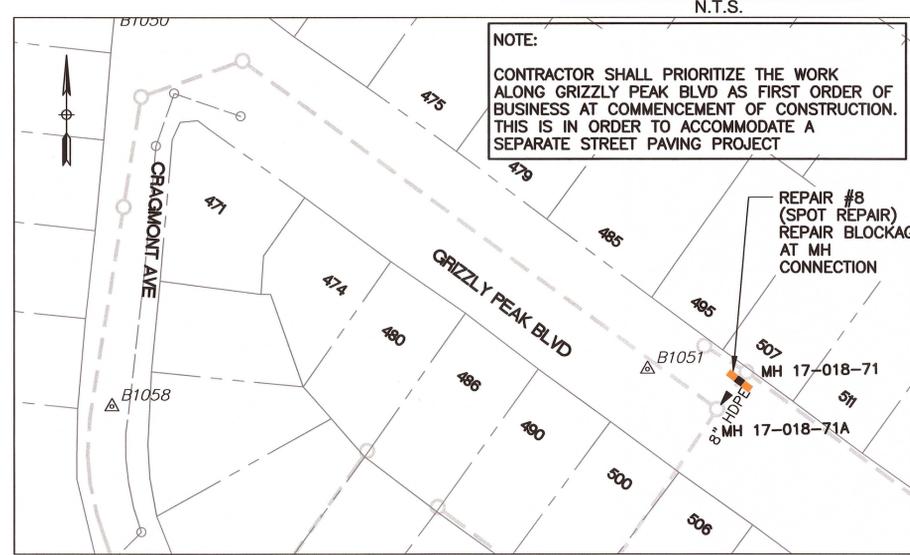
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REPAIR LOCATION 5
N.T.S.



REPAIR LOCATION 6
N.T.S.



REPAIR LOCATION 7
N.T.S.

Daniel M. Anzeli

 23oct23

- NOTES:
- FOR GENERAL NOTES SEE SHEET 2 OF THE PLANS.
 - RECONSTRUCT CITY MONUMENTS DISTURBED BY SEWER INSTALLATION. REFER TO STANDARD DETAIL PLANS NOS. 7940, 8090 & 8179 OF THE SPECIFICATIONS.
 - IN ACCORDANCE WITH SPECIAL CONDITION NO. 13 IN THE SPECIAL PROVISIONS, PRIOR TO EXCAVATION, CONTRACTOR SHALL POTHOLE AND VERIFY THE LOCATIONS 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 THE CLEARANCE IS LESS THAN 12 INCHES OR IF THERE IS AN EXISTING CONCRETE SADDLE AT THE CROSSING, NOTIFY THE ENGINEER IMMEDIATELY PRIOR TO CONTINUING WORK.
 - ALL EXISTING TREES SHALL BE PROTECTED AGAINST INJURY FROM CONSTRUCTION OPERATIONS UNLESS OTHERWISE NOTED.
 - CONTRACTOR SHALL NOT BEGIN ANY WORK OUTSIDE THE RIGHT-OF-WAY BEFORE WRITTEN AUTHORIZATION FROM ENGINEER.
 - PLANS ARE SCHEMATIC AND NOT TO SCALE.
 - PERFORM SPOT REPAIRS ON VCP AND PVC USING MATCHING VCP FITTINGS, PVC FITTINGS AND SHIELDED COUPLINGS AS REQUIRED. SEE SECTION 306-7.4.4 OF TECHNICAL PROVISIONS FOR SHIELDED COUPLING SPECIFICATIONS.
 - PERFORM SPOT REPAIRS ON HDPE USING ELECTROFUSION COUPLINGS AND/OR FUSED SADDLES AS REQUIRED. ELECTROFUSION COUPLINGS SHOULD CONFORM TO ASTM F1055.

REVISION	MARK	DATE	DESCRIPTION	APPROVAL

PROJECT MANAGER: _____
 DATE: _____

DEPICTION OF MONUMENTS: _____ DATE: _____
 SURVEY PARTY CHIEF: _____
 WATERSHED REVIEW: _____ DATE: _____

FOR REDUCED PLANS - ORIGINAL SCALE IS IN INCHES

SUBMITTED: _____ DATE: _____
 R.C.E. _____
 EXP. _____

DESIGN: AY
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 CHECK: DA
 AS BUILT: _____

APPROVED: _____ DATE: _____
 R.C.E. _____
 EXP. _____

CITY ENGINEER

DESIGN: AY
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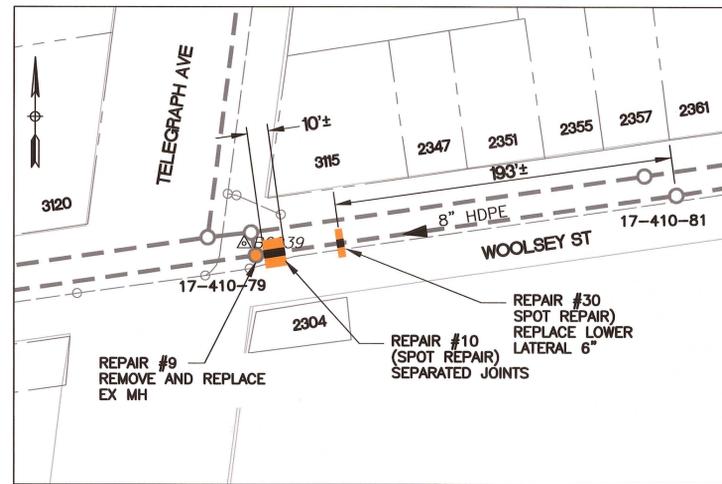
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CITY OF BERKELEY
 DEPARTMENT OF PUBLIC WORKS

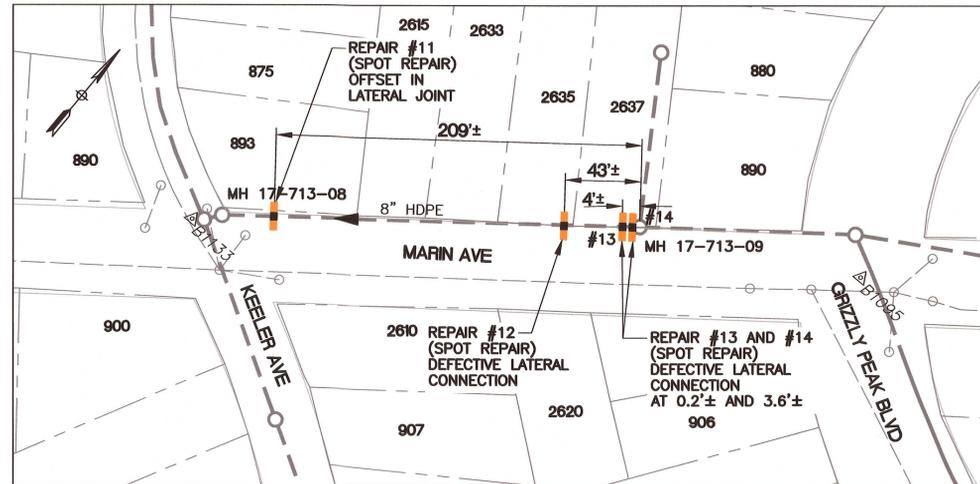
SANITARY SEWER REHABILITATION
URGENT SEWER REPAIR PROJECT
 FY 2023
 REPAIR LOCATIONS
 PLAN

PLAN 8264
 FILE 502-712
 C1
 SHEET 3 OF 9

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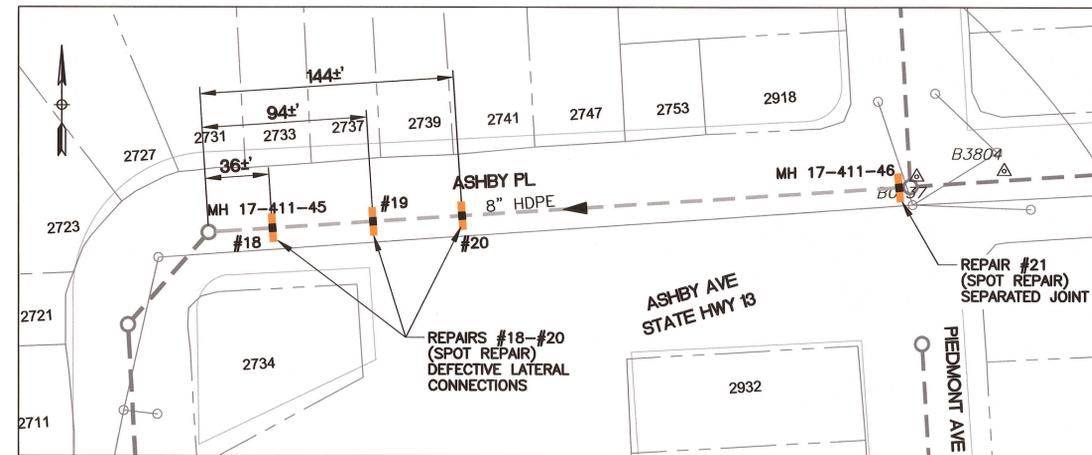
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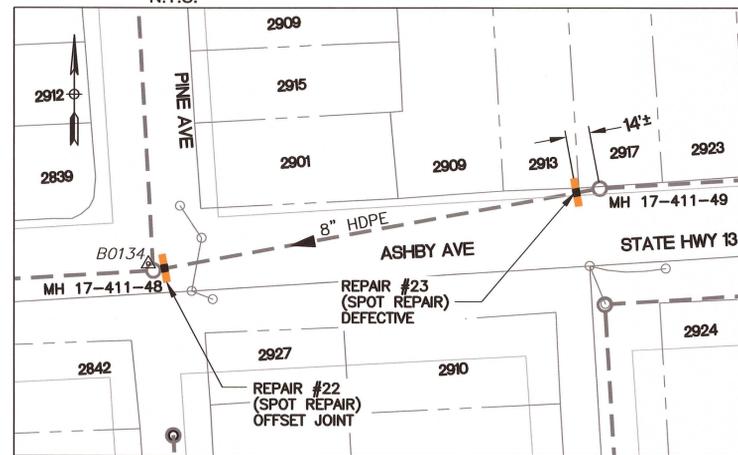
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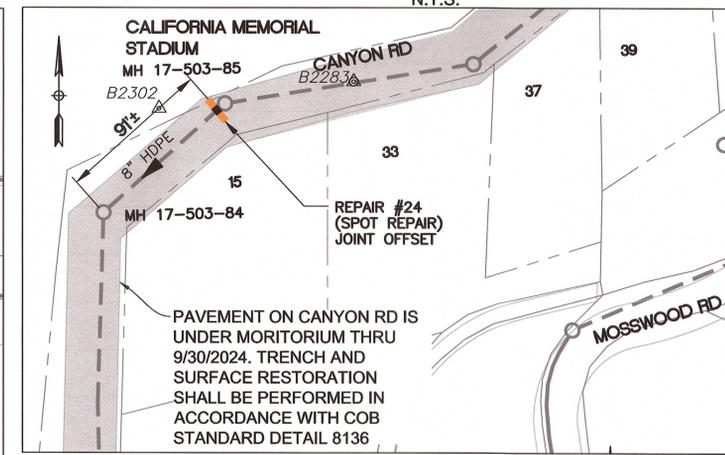
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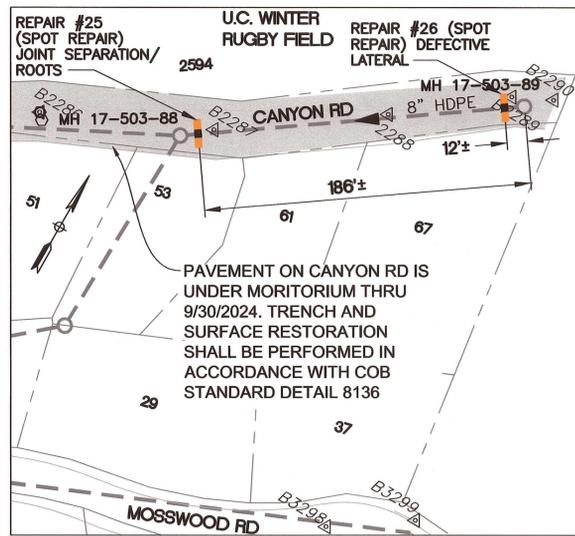
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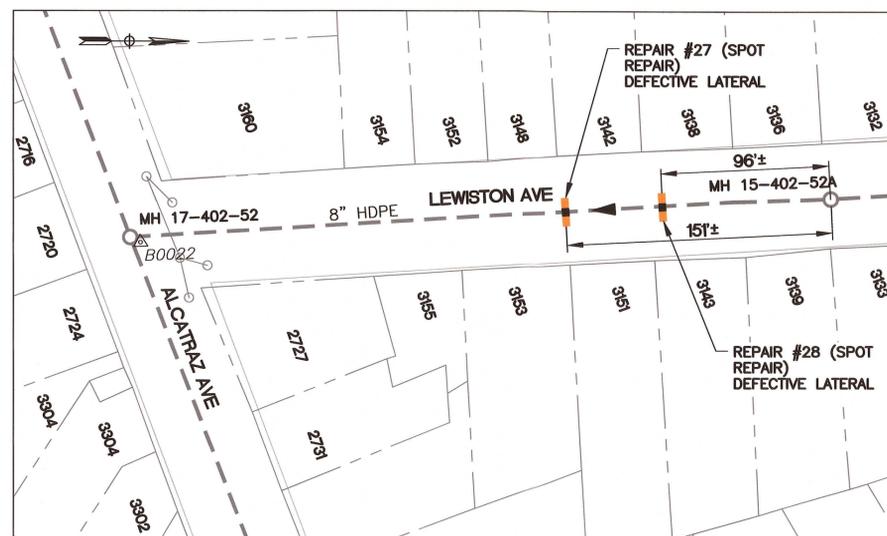
REPAIR LOCATION 12
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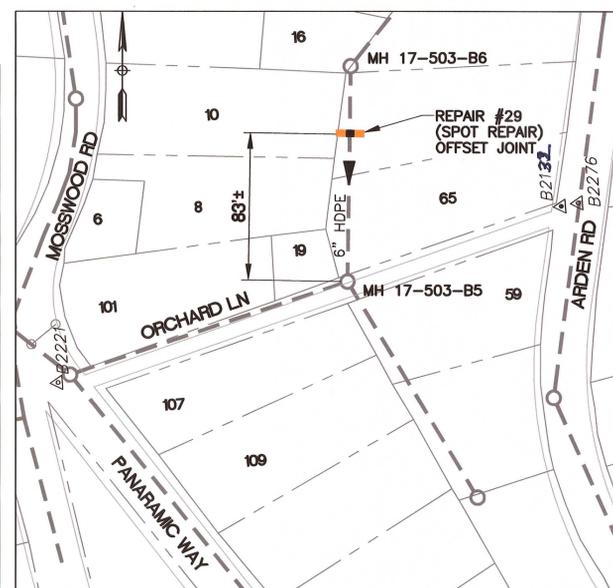
REPAIR LOCATION 13
N.T.S.



REPAIR LOCATION 14
N.T.S.



REPAIR LOCATION 15
N.T.S.



REPAIR LOCATION 16
N.T.S.

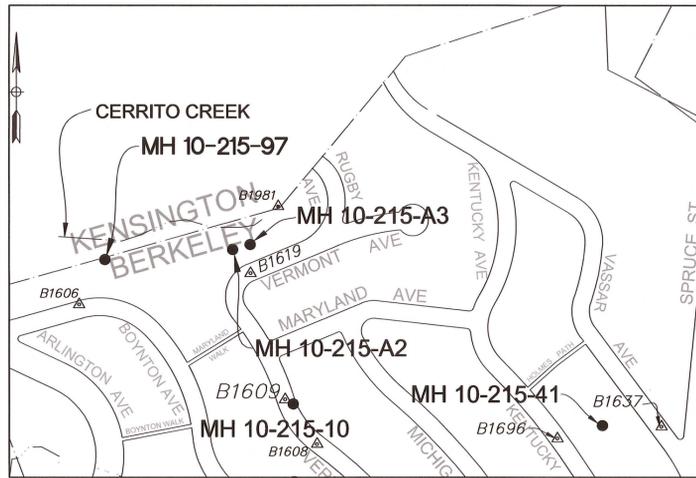
- NOTES:**
- FOR GENERAL NOTES SEE SHEET 2 OF THE PLANS.
 - RECONSTRUCT CITY MONUMENTS DISTURBED BY SEWER INSTALLATION. REFER TO STANDARD DETAIL PLANS NOS. 7940, 8090 & 8179 OF THE SPECIFICATIONS.
 - IN ACCORDANCE WITH SPECIAL CONDITION NO. 13 IN THE SPECIAL PROVISIONS, PRIOR TO EXCAVATION, CONTRACTOR SHALL POTHOLE AND VERIFY THE LOCATIONS 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 THE CLEARANCE IS LESS THAN 12 INCHES OR IF THERE IS AN EXISTING CONCRETE SADDLE AT THE CROSSING, NOTIFY THE ENGINEER IMMEDIATELY PRIOR TO CONTINUING WORK.
 - ALL EXISTING TREES SHALL BE PROTECTED AGAINST INJURY FROM CONSTRUCTION OPERATIONS UNLESS OTHERWISE NOTED.
 - CONTRACTOR SHALL NOT BEGIN ANY WORK OUTSIDE THE RIGHT-OF-WAY BEFORE WRITTEN AUTHORIZATION FROM ENGINEER.
 - PLANS ARE SCHEMATIC AND NOT TO SCALE.
 - PERFORM SPOT REPAIRS ON VCP AND PVC USING MATCHING VCP FITTINGS, PVC FITTINGS AND SHIELDED COUPLINGS AS REQUIRED. SEE SECTION 306-7.4.4 OF TECHNICAL PROVISIONS FOR SHIELDED COUPLING SPECIFICATIONS.
 - PERFORM SPOT REPAIRS ON HDPE USING ELECTROFUSION COUPLINGS AND/OR FUSED SADDLES AS REQUIRED. ELECTROFUSION COUPLINGS SHOULD CONFORM TO ASTM F1055.



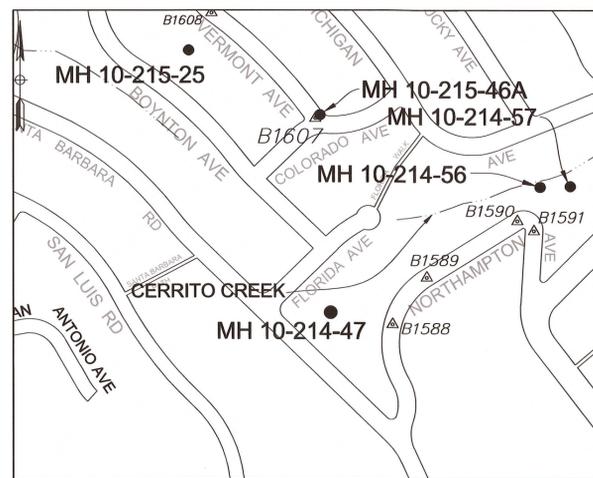
10/01/23

PROJECT MANAGER: _____	DEPICTION OF MONUMENTS: _____	DATE: _____	SUBMITTED: _____	DATE: _____	DESIGN: AY	HORIZ.: NONE	CITY OF BERKELEY DEPARTMENT OF PUBLIC WORKS	SANITARY SEWER REHABILITATION URGENT SEWER REPAIR PROJECT FY 2023 REPAIR LOCATIONS PLAN	PLAN 8264
DATE: _____	SURVEY PARTY CHIEF: _____	DATE: _____	SUPERVISING CIVIL ENGINEER: _____	DATE: _____	DRAWN: PW	VERT.: NONE			FILE 502-712
WATERSHED REVIEW: _____		DATE: _____	APPROVED: _____	DATE: _____	CHECK: AY	BOOK: _____	REVISION	MARK	C2
FOR REDUCED PLANS - ORIGINAL SCALE IS IN INCHES		DATE: _____	CITY ENGINEER: _____	DATE: _____	AS BUILT: _____	DATE: 9/01/22			REVISION

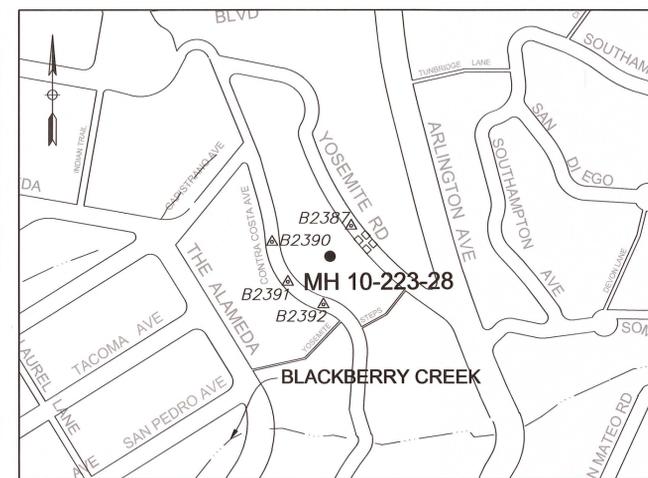
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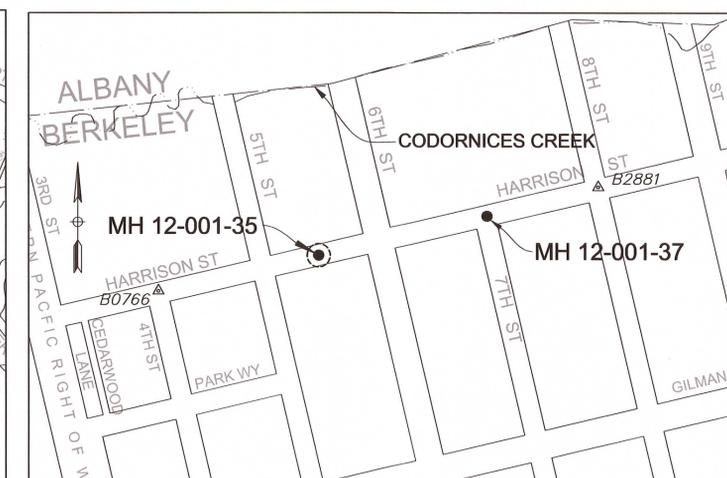
MH LOCATION 1
N.T.S.



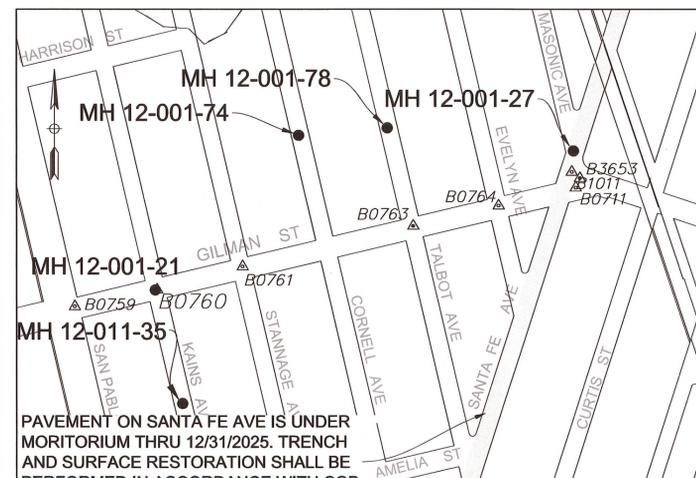
MH LOCATION 2
N.T.S.



MH LOCATION 3
N.T.S.



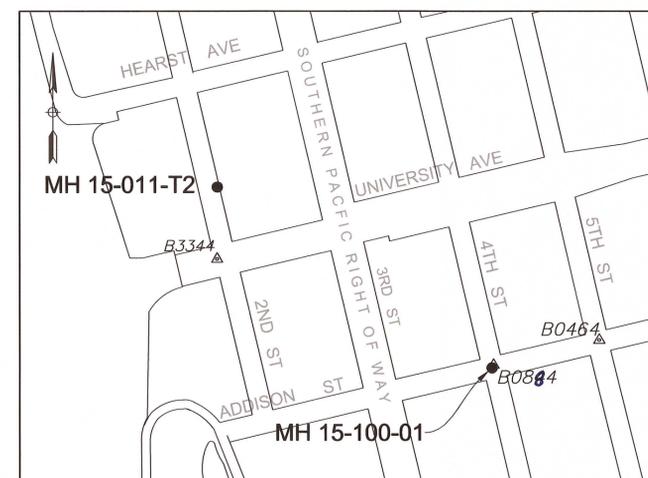
MH LOCATION 4
N.T.S.



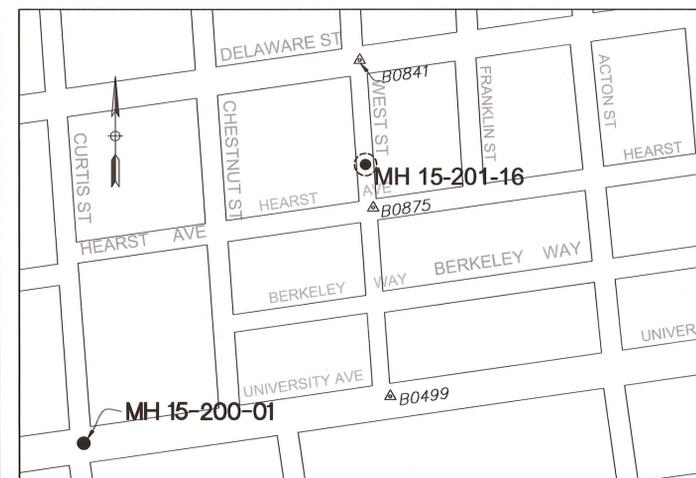
MH LOCATION 5
N.T.S.



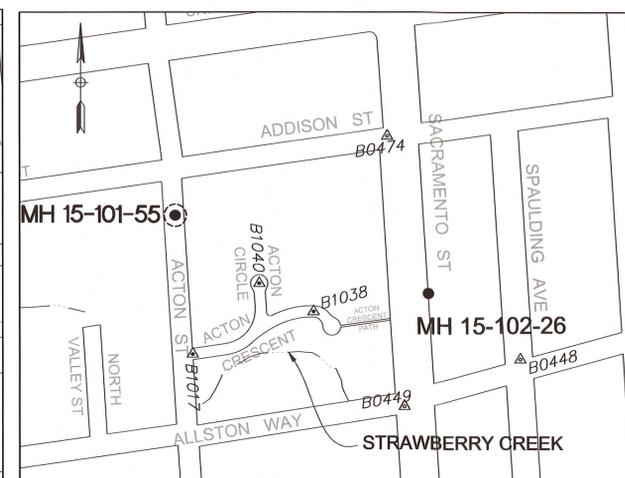
MH LOCATION 6
N.T.S.



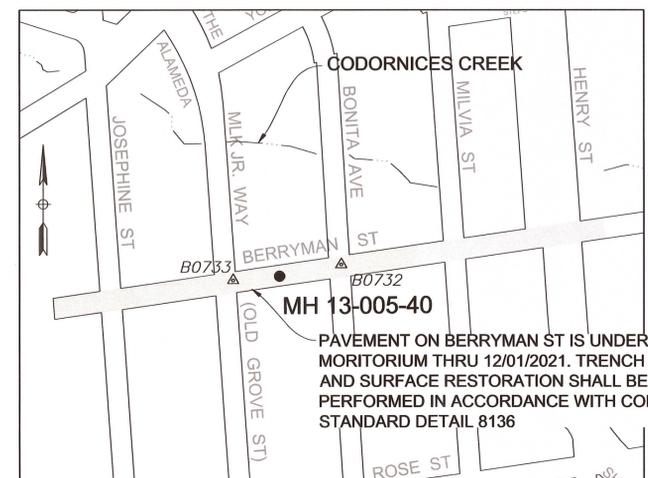
MH LOCATION 7
N.T.S.



MH LOCATION 8
N.T.S.



MH LOCATION 9
N.T.S.



MH LOCATION 10
N.T.S.



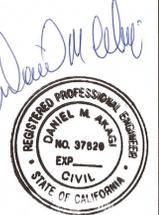
MH LOCATION 11
N.T.S.

LEGEND

- REHABILITATE MH
- REMOVE & CONSTRUCT NEW MH

NOTES:

1. FOR GENERAL NOTES SEE SHEET 2 OF THE PLANS.
2. RECONSTRUCT CITY MONUMENTS DISTURBED BY THE WORK. REFER TO STANDARD DETAIL PLAN NO. 8090 OR 8091 OF THE SPECIFICATIONS AS APPLICABLE.
3. FOR PAVEMENT RESTORATION ON MORATORIUM STREETS REFER TO STANDARD DETAIL, PLAN NO. 8136 OF THE SPECIFICATIONS.
4. CONTRACTOR SHALL NOTIFY ENGINEER IF THE PROPOSED REHABILITATED MANHOLE IS A BRICK MANHOLE PRIOR TO STARTING ANY WORK. ALL EXISTING BRICK MANHOLES SHALL BE COMPLETELY REMOVED AND REPLACED PER BID ITEM 9.
5. PROVIDE POST-CONSTRUCTION PHOTOGRAPHIC DOCUMENTATION OF THE REHABILITATED MANHOLES. DOCUMENTATION SHALL CONSIST OF HARD COPY PHOTOS AND SOFT COPY IMAGES (JPG OR TIFF, 100KB TO 1MB IN SIZE) OF THE TOP OF THE MANHOLE AND A PHOTO OF THE INTERIOR OF THE MANHOLE. PHOTOS SHALL BE TAKEN IN A NORTHERN ORIENTATION.



25 OCT 23

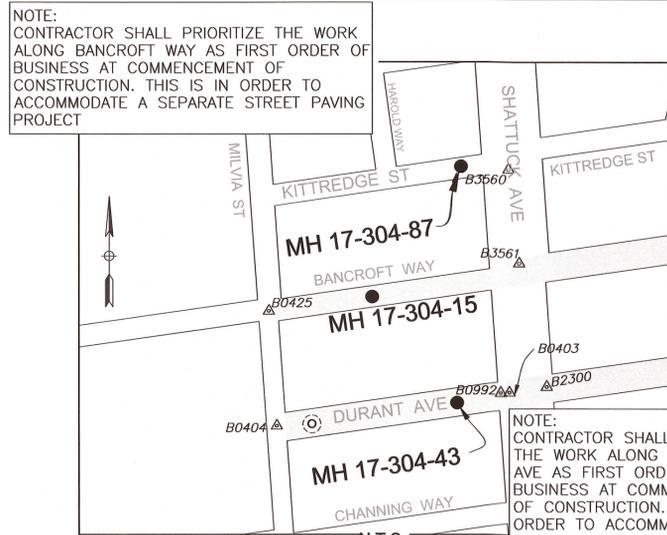
REVISION	MARK	DATE	DESCRIPTION	APPROVAL

PROJECT MANAGER: _____	DEPICTION OF MONUMENTS: _____	DATE _____	SUBMITTED: _____	DATE _____	DESIGN AY	HORIZ. NONE	<p>CITY OF BERKELEY DEPARTMENT OF PUBLIC WORKS</p> <p>SANITARY SEWER PROJECT URGENT SEWER REPAIR PROJECT FY 2023 MAINTENANCE HOLE LOCATION MAPS AND REHABILITATION SCHEDULE</p>	PLAN 8264
DATE _____	SURVEY PARTY CHIEF _____	DATE _____	SUPERVISING CIVIL ENGINEER _____	DATE _____	DRAWN PW	VERT. NONE		FILE 502-712
<p>FOR REDUCED PLANS - ORIGINAL SCALE IS IN INCHES</p>	WATERSHED REVIEW: _____	DATE _____	APPROVED: _____	DATE _____	CHECK DA	BOOK _____		C4
			CITY ENGINEER _____	DATE 10/20/22	AS BUILT _____	DATE 10/20/22		SHEET 6 OF 9

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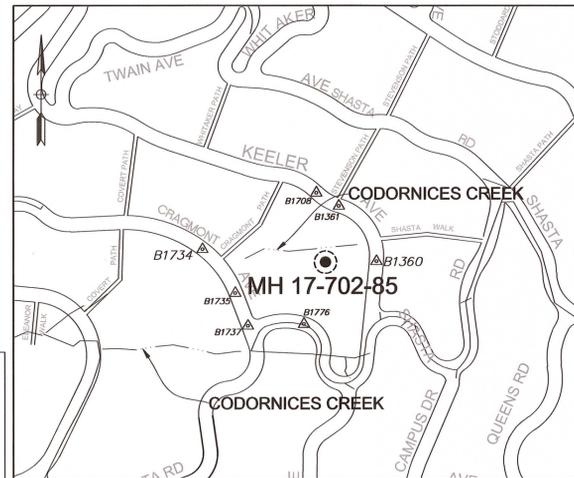


MH LOCATION 12
N.T.S.

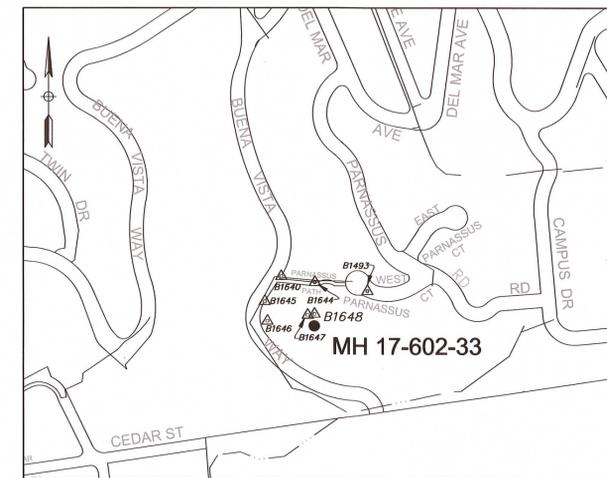


MH LOCATION 13
N.T.S.

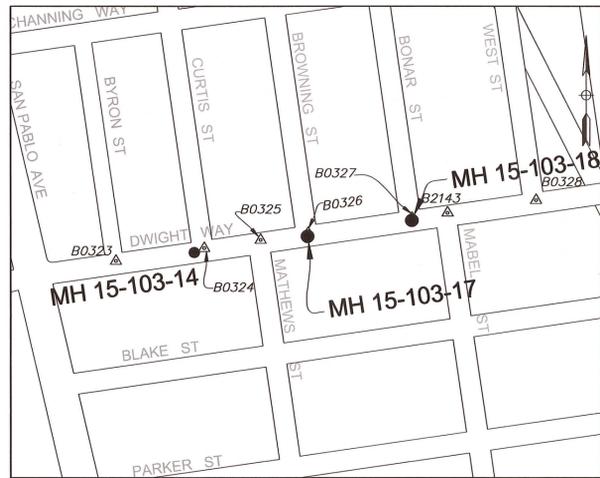
NOTE:
CONTRACTOR SHALL PRIORITIZE THE WORK ALONG DURANT AVE AS FIRST ORDER OF BUSINESS AT COMMENCEMENT OF CONSTRUCTION. THIS IS IN ORDER TO ACCOMMODATE A SEPARATE STREET PAVING PROJECT



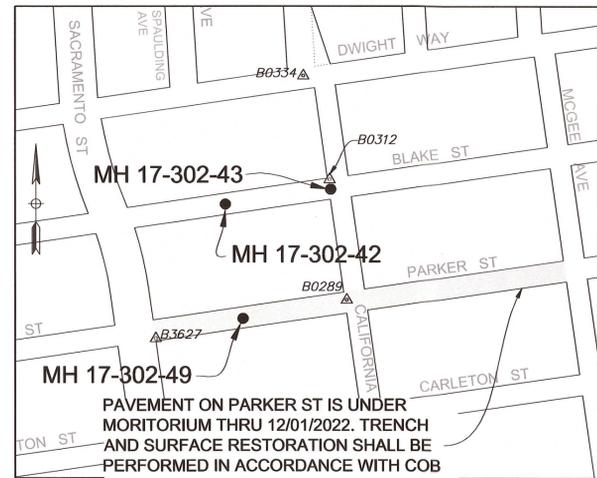
MH LOCATION 14
N.T.S.



MH LOCATION 15
N.T.S.

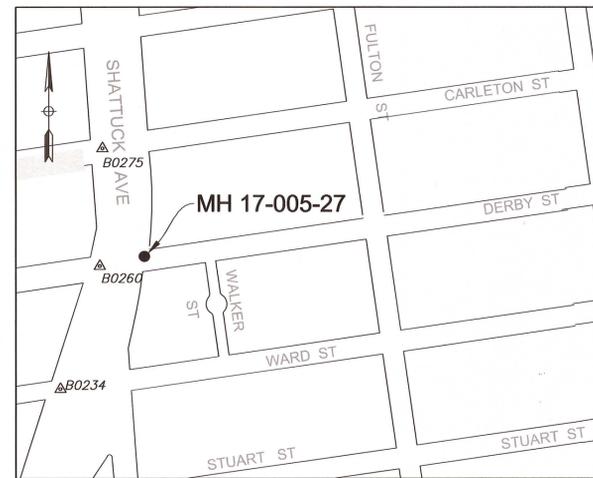


MH LOCATION 16
N.T.S.

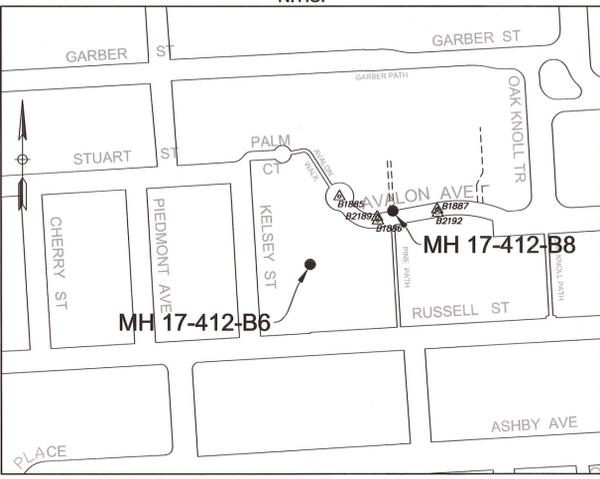


MH LOCATION 17
N.T.S.

PAVEMENT ON PARKER ST IS UNDER MORATORIUM THRU 12/01/2022. TRENCH AND SURFACE RESTORATION SHALL BE PERFORMED IN ACCORDANCE WITH COB STANDARD DETAIL 8136



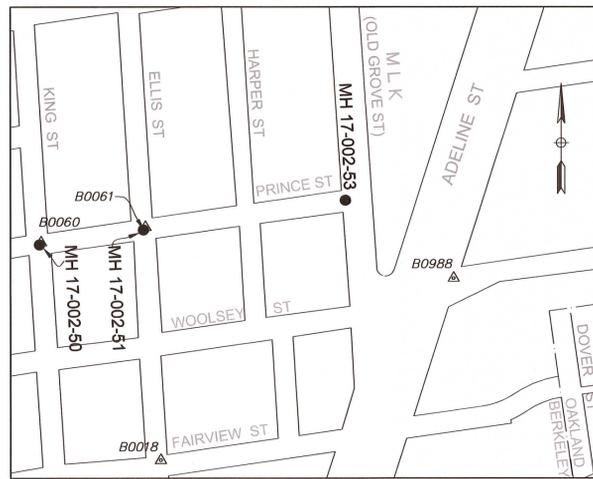
MH LOCATION 18
N.T.S.



MH LOCATION 19
N.T.S.



MH LOCATION 20
N.T.S.



MH LOCATION 21
N.T.S.

LEGEND

- REHABILITATE MH
- REMOVE & CONSTRUCT NEW MH

NOTES:

1. FOR GENERAL NOTES SEE SHEET 2 OF THE PLANS.
2. RECONSTRUCT CITY MONUMENTS DISTURBED BY THE WORK. REFER TO STANDARD DETAIL PLAN NO. 8090 OR 8091 OF THE SPECIFICATIONS AS APPLICABLE.
3. FOR PAVEMENT RESTORATION ON MORATORIUM STREETS REFER TO STANDARD DETAIL, PLAN NO. 8136 OF THE SPECIFICATIONS.
4. CONTRACTOR SHALL NOTIFY ENGINEER IF THE PROPOSED REHABILITATED MANHOLE IS A BRICK MANHOLE PRIOR TO STARTING ANY WORK. ALL EXISTING BRICK MANHOLES SHALL BE COMPLETELY REMOVED AND REPLACED PER BID ITEM 9.
5. PROVIDE POST-CONSTRUCTION PHOTOGRAPHIC DOCUMENTATION OF THE REHABILITATED MANHOLES. DOCUMENTATION SHALL CONSIST OF HARD COPY PHOTOS AND SOFT COPY IMAGES (JPG OR TIFF, 100KB TO 1MB IN SIZE) OF THE TOP OF THE MANHOLE AND A PHOTO OF THE INTERIOR OF THE MANHOLE. PHOTOS SHALL BE TAKEN IN A NORTHERN ORIENTATION.

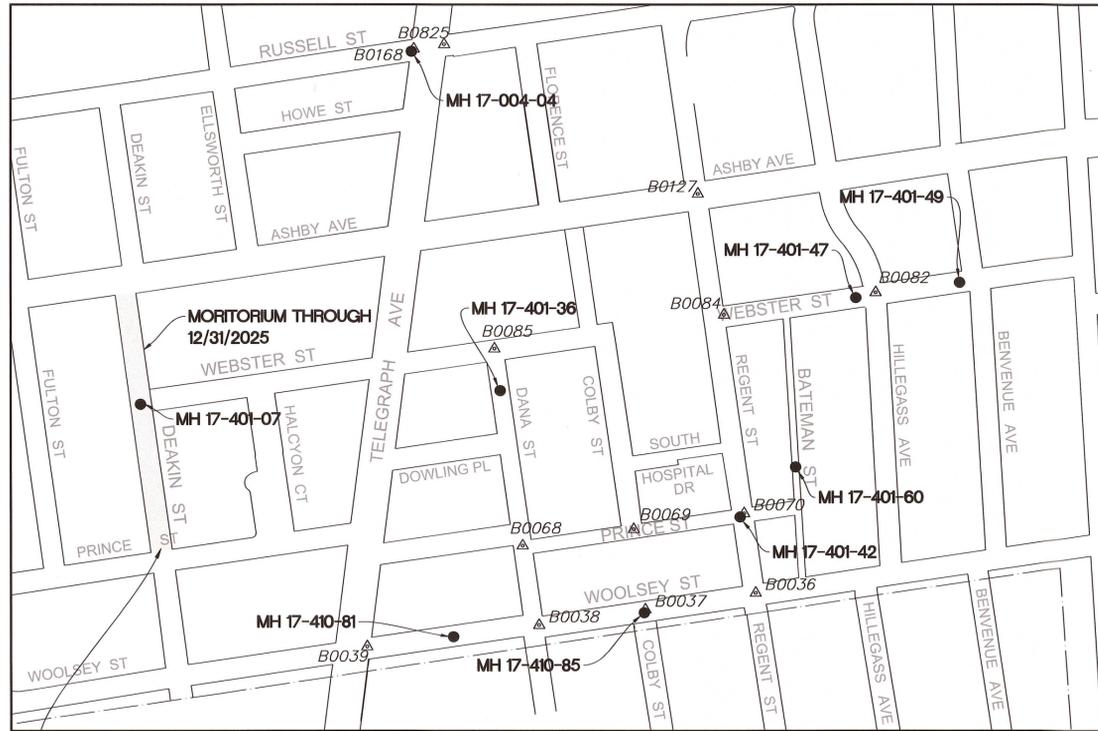
Daniel M. Anselmi

 25 OCT 23

REVISION	MARK	DATE	DESCRIPTION	APPROVAL

PROJECT MANAGER: _____	DEPICTION OF MONUMENTS: _____	DATE _____	SUBMITTED: _____	DATE _____	DESIGN AY	HORIZ. NONE	CITY OF BERKELEY DEPARTMENT OF PUBLIC WORKS	SANITARY SEWER PROJECT URGENT SEWER REPAIR PROJECT FY 2023 MAINTENANCE HOLE LOCATION MAPS AND REHABILITATION SCHEDULE	PLAN 8264
DATE _____	SURVEY PARTY CHIEF _____	DATE _____	SUPERVISING CIVIL ENGINEER _____	R.C.E. _____	DRAWN PW	VERT. NONE			FILE 502-712
0 1 2 3	WATERSHED REVIEW: _____	DATE _____	APPROVED: _____	EXP. _____	CHECK DA	BOOK _____			C5
FOR REDUCED PLANS - ORIGINAL SCALE IS IN INCHES			CITY ENGINEER _____	EXP. _____	AS BUILT _____	DATE 10/19/22			SHEET 7 OF 9

MAINTENANCE REHABILITATION SCHEDULE



PAVEMENT ON DEAKIN ST IS UNDER MORATORIUM THRU 12/31/2025. TRENCH AND SURFACE RESTORATION SHALL BE PERFORMED IN ACCORDANCE WITH COB STANDARD DETAIL 8136

MH LOCATION 22
N.T.S.

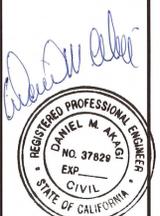
LEGEND

- REHABILITATE MH
- REMOVE & CONSTRUCT NEW MH

NOTES:

- FOR GENERAL NOTES SEE SHEET 2 OF THE PLANS.
- RECONSTRUCT CITY MONUMENTS DISTURBED BY THE WORK. REFER TO STANDARD DETAIL PLAN NO. 8090 OR 8091 OF THE SPECIFICATIONS AS APPLICABLE.
- FOR PAVEMENT RESTORATION ON MORATORIUM STREETS REFER TO STANDARD DETAIL, PLAN NO. 8136 OF THE SPECIFICATIONS.
- CONTRACTOR SHALL NOTIFY ENGINEER IF THE PROPOSED REHABILITATED MANHOLE IS A BRICK MANHOLE PRIOR TO STARTING ANY WORK. ALL EXISTING BRICK MANHOLES SHALL BE COMPLETELY REMOVED AND REPLACED PER BID ITEM 9.
- PROVIDE POST-CONSTRUCTION PHOTOGRAPHIC DOCUMENTATION OF THE REHABILITATED MANHOLES. DOCUMENTATION SHALL CONSIST OF HARD COPY PHOTOS AND SOFT COPY IMAGES (JPG OR TIFF, 100KB TO 1MB IN SIZE) OF THE TOP OF THE MANHOLE AND A PHOTO OF THE INTERIOR OF THE MANHOLE. PHOTOS SHALL BE TAKEN IN A NORTHERN ORIENTATION.

LOCATION MAP NO.	NEAREST STREET ADDRESS	STREET NAME	SSMH ID NO.	MH IN MORATORIUM	APPROX DEPTH (FT)	REHABILITATION MH BID ITEM #7 (EA)	REMOVE & CONSTRUCT NEW MH BID ITEM #9 (EA)
1	386	VERMONT AVE	10-215-A3	NO	2.8'		1
1	386	VERMONT AVE	10-215-A2	NO	3.6'		1
1	435	VERMONT AVE	10-215-10	NO	4.6'		1
2	456	VERMONT AVE	10-215-25	NO	6.2'		1
1	419	BOYTON AVE	10-215-97	NO	6'		1
2		COLORADO AVE AT VERMONT AVE	10-215-46A	NO	4.1'		1
2	77	NORTHAMPTON AVE	10-214-56	NO	9.8'		1
2	81	NORTHAMPTON AVE	10-214-57	NO	10'		1
1	480	VASSAR AVE	10-215-41	NO	5.7'		1
2	15	FLORIDA AVE	10-214-47	NO	4.4'		1
3	1978	YOSEMITE AVE	10-223-28	NO	4'		1
4		HARRISON ST BETWEEN 5TH & 6TH	12-001-35	NO	7'	1	
4		HARRISON ST AT 7TH ST	12-001-37	NO	9'		1
5		GILMAN ST AT KAINS	12-001-21	NO	9.5'		1
5		MASONIC AVE AT SANTE FE	12-001-27	YES	8'		1
5	1223	CORNELL AVE	12-001-74	NO	8'		1
5	1228	TALBOT AVE	12-001-78	NO	5'		1
5	1323	KAINS AVE	12-011-35	NO	4.1'		1
6	1415	SACRAMENTO ST	14-003-47	NO	4.5'		1
7		SECOND BETWEEN HEARST & UNIVERSITY	15-011-T2	NO	6		1
7		FOURTH ST AT ADDISON ST	15-100-01	NO	10		1
8	1826	WEST ST	15-201-16	NO	4'	1	
8	1199	UNIVERSITY AVE	12-200-01	NO	9.5'		1
9	1400	ADDISON ST	15-101-55	NO	5.5'	1	
9	2133	SACRAMENTO ST	15-102-26	NO	4'		1
10	1910	BERRYMAN ST	13-005-40	YES	7.6'		1
11		MLK KING JR WAY AT BERKELEY WAY	15-004-71	NO	8.1'		1
12	1741	ALLSTON WAY	17-303-42	NO	7'		1
13	2090	KITTREDGE ST	17-304-87	NO	10.1'		1
13	2005	BANCROFT WAY	17-304-15	NO	6.9'		1
13	2037	DURANT AVE	17-304-43	NO	5.3'		1
14	1188	KEELER AVE	17-702-85	NO	5.5'	1	
15	7	W.PARNASSUS CT	17-602-33	NO	9.5'		1
16	1127	DWIGHT WAY	15-103-14	YES	5.1'		1
16	1219	DWIGHT WAY	15-103-17	YES	6'		1
16	1236	DWIGHT WAY	15-103-18	YES	6'		1
17	1524	BLAKE ST	17-302-42	NO	7'		1
17		BLAKE ST AT CALIFORNIA ST	17-302-43	NO	7'		1
17	1520	PARKER ST	17-302-49	YES	7'		1
18		DERBY ST AT SHATTUCK AVE	17-005-27	NO	8.8'		1
19	7	TANGLEWOOD RD	17-412-86	NO	5.5'		1
19	29	TANGLEWOOD RD	17-412-88	NO	3.0'		1
20		PRINCE ST AT CALIFORNIA ST	17-002-49	NO	12'		1
21		PRINCE ST AT KING ST	17-002-50	NO	11'		1
21		ELLIS ST AT PRINCE ST	17-002-51	NO	12'		1
21		MLK JR WAY AT PRINCE ST	17-002-53	NO	9'		1
22		DEAKIN ST AT WEBSTER ST	17-401-07	YES	9'		1
22	3005	DANA ST	17-401-36	NO	6'		1
22		PRINCE ST AT REGENT ST	17-401-42	NO	7'		1
22	2602	WEBSTER ST	17-401-47	NO	8.3'		1
22	2608	WEBSTER ST	17-401-49	NO	8.3'		1
22	3035	BATEMAN ST	17-401-60	NO	7		1
22	1361	WOOLSEY ST	17-410-81	NO	7'		1
22		WOOLSEY ST AT COLBY ST	17-410-85	NO	7.6'		1
22	2335	RUSSELL ST	17-004-04	NO	8'		1
TOTAL						4	51

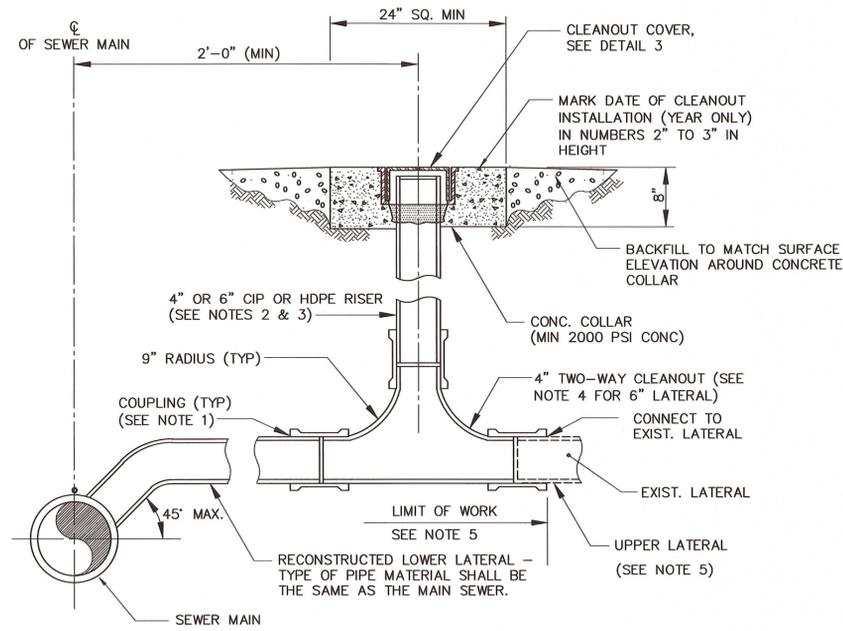


APPROVAL	DESCRIPTION	DATE	MARK	REVISION

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PROJECT MANAGER: _____	DEPICTION OF MONUMENTS: _____ DATE _____	SUBMITTED: _____ DATE _____	DESIGN: AY _____ HORIZ: NONE _____	CITY OF BERKELEY DEPARTMENT OF PUBLIC WORKS	SANITARY SEWER PROJECT URGENT SEWER REPAIR PROJECT FY 2023 MAINTENANCE HOLE LOCATION MAPS AND REHABILITATION SCHEDULE	PLAN 8264
DATE: _____	SURVEY PARTY CHIEF: _____	SUPERVISING CIVIL ENGINEER: _____	DRAWN: PW _____			FILE 502-712
FOR REDUCED PLANS - ORIGINAL SCALE IS IN INCHES	WATERSHED REVIEW: _____ DATE _____	APPROVED: _____ DATE _____	CHECK: DA _____			C6
		CITY ENGINEER: _____	AS BUILT: _____ DATE 10/18/22			SHEET 8 OF 9

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- NOTES:**
1. COUPLINGS SHALL BE TYPE 'D' JOINTS W/316 OR 304-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. SEWER MAIN IN THE BACKLINE SEWER AREA, INSTALL NEW TWO WAY CLEANOUT 6 FT. MINIMUM FROM THE SEWER MAIN. ADJUST THE CLEANOUT LOCATION AS NEEDED TO FIT THE SITE CONDITION.

**SEWER MAIN IN STREET AREA
LATERAL RECONSTRUCTION**

DETAIL 3
VAR

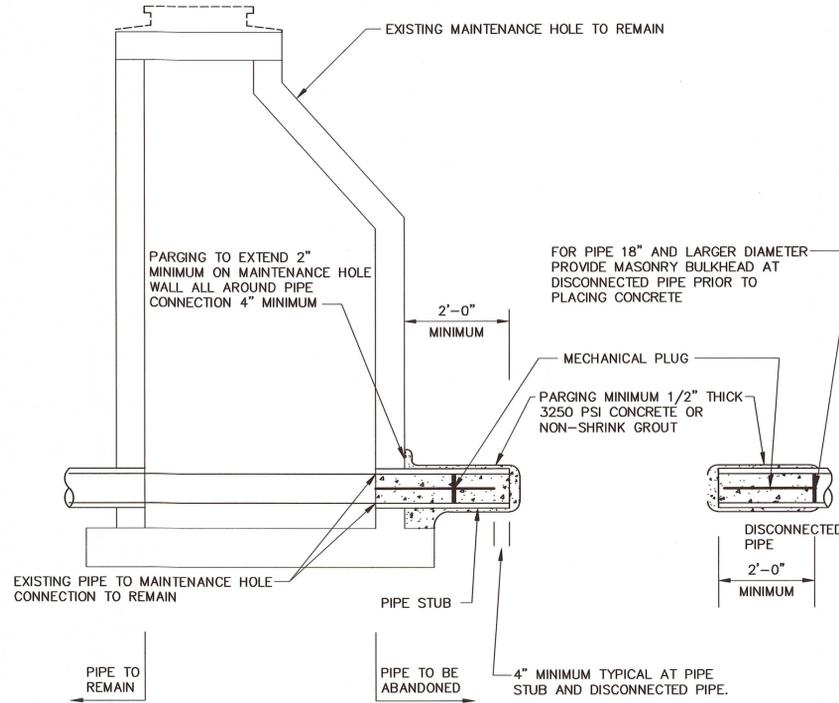
NOT TO SCALE

NOTES:

1. SEE SPECIFICATIONS FOR ADDITIONAL STANDARD DETAILS.

NOTES:

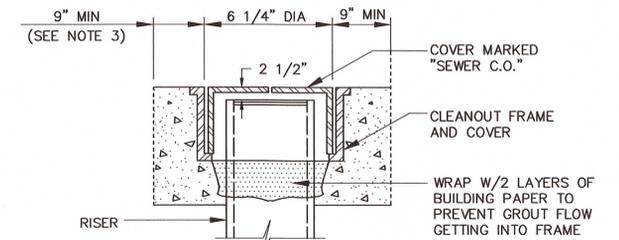
1. FOR SEWERS 15" AND SMALLER DIAMETER, DISCONNECT SEWER AS SHOWN, INSERT MECHANICAL PLUGS, PLACE CONCRETE, PARGING AND COAT WITH TWO COATS OF ASPHALT BASE COATING.
2. FOR SEWER 18" AND LARGER DIAMETER, SAME AS 15" AND SMALLER EXCEPT MASONRY BULKHEAD MAY BE SUBSTITUTED FOR MECHANICAL PLUG.
3. RESHAPE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



**ABANDONMENT OF PIPE AT
SANITARY SEWER MAINTENANCE HOLE**

DETAIL 4
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 2000 PSI CONCRETE PATCH IS INSTALLED AROUND FRAME. EDGE BEFORE

CLEANOUT COVER (4" DIA.)

DETAIL 5
VAR
NOT TO SCALE

Daniel M. Akkari
REGISTERED PROFESSIONAL ENGINEER
DANIEL M. AKKARI
NO. 37829
EXP. CIVIL
STATE OF CALIFORNIA
12/09/23

PROJECT MANAGER: _____	DEPICTION OF MONUMENTS: _____ DATE _____	SUBMITTED: _____ DATE _____	DESIGN _____ AY _____	HORIZ. _____ NONE _____	CITY OF BERKELEY DEPARTMENT OF PUBLIC WORKS	SANITARY SEWER REHABILITATION URGENT SEWER REPAIR PROJECT FY 2023 MISCELLANEOUS DETAILS	PLAN _____ 8264 _____
DATE _____	SURVEY PARTY CHIEF _____	SUPERVISING CIVIL ENGINEER _____	DRAWN _____ PW _____	VERT. _____ NONE _____			FILE _____ 502-712 _____
0 1 2 3 FOR REDUCED PLANS - ORIGINAL SCALE IS IN INCHES	WATERSHED REVIEW: _____ DATE _____	APPROVED: _____ DATE _____	CHECK _____ AY _____	BOOK _____			C7
		CITY ENGINEER _____	AS BUILT _____	DATE _____ 9/05/22 _____		SHEET 9 OF 9	

REVISION	MARK	DATE	DESCRIPTION	APPROVAL