

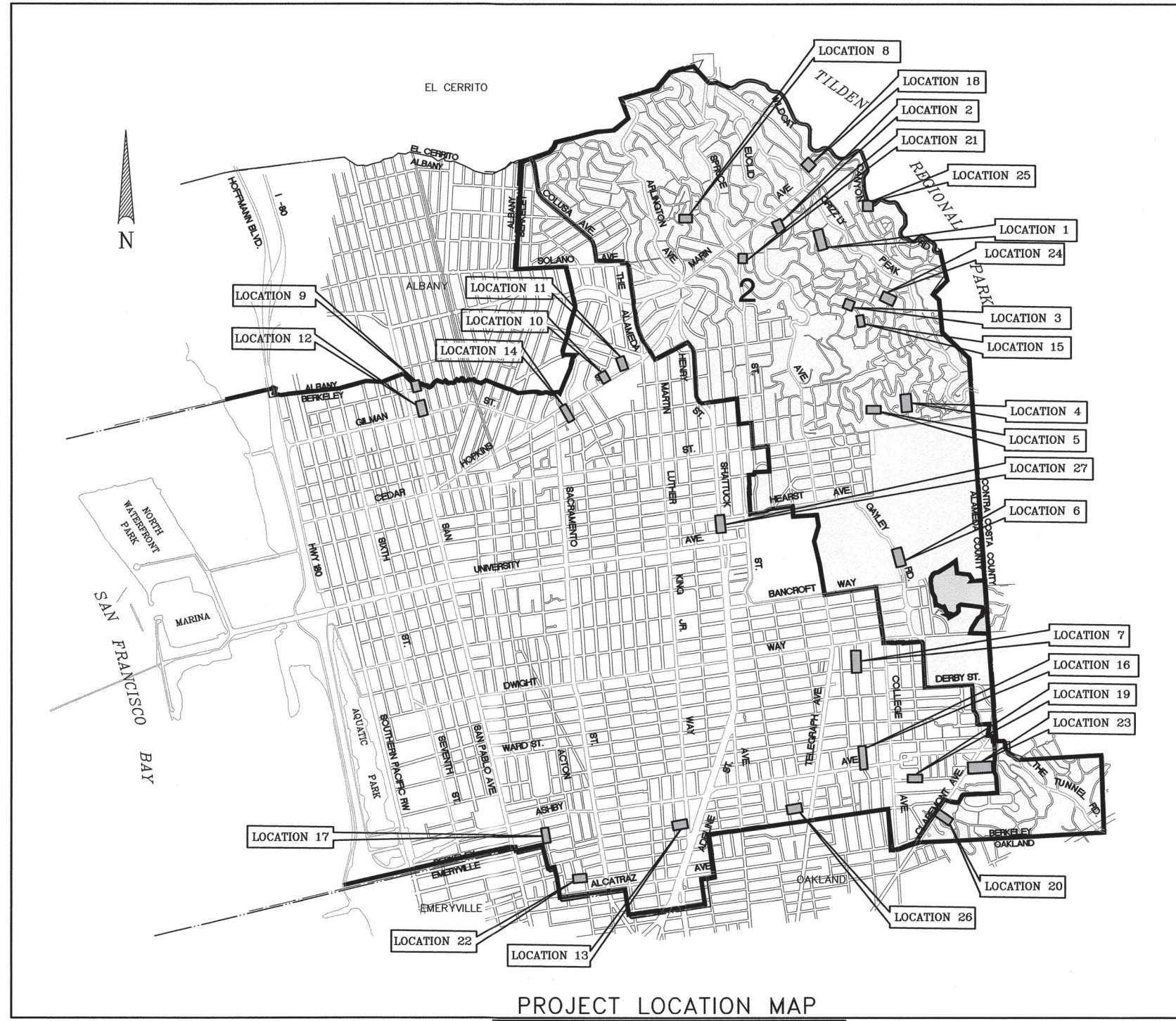
CITY OF BERKELEY, CALIFORNIA

SANITARY SEWER REHABILITATION AND REPLACEMENT

URGENT SEWER PROJECT FY 2024

SPECIFICATION NO. 24-11645-C

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LEGEND

- FIRE ZONE 2
- FIRE ZONE 3
- POINT REPAIR LOCATION

David M. Allen
5 FEB 2025



REVISION	MARK	DATE	DESCRIPTION	APPROVAL

PROJECT MANAGER: _____	DEPICTION OF MONUMENTS: <i>Basil Benton</i>	DATE <u>12/6/23</u>	SUBMITTED: <i>David M. Allen</i>	DATE <u>5/22/2025</u>	DESIGN <u>AY</u>	HORIZ. <u>-</u>	CITY OF BERKELEY DEPARTMENT OF PUBLIC WORKS	SANITARY SEWER REHABILITATION URGENT SEWER REPAIR PROJECT FY 2024 TITLE, VICINITY, LOCATION MAP AND INDEX	PLAN <u>8281</u>
DATE _____	SURVEY PARTY CHIEF: _____	APPROVED: <i>[Signature]</i>	SUPERVISING CIVIL ENGINEER: _____	R.C.E. <u>37829</u>	DRAWN <u>PW</u>	VERT. <u>-</u>			FILE <u>503-638</u>
WATERSHED REVIEW: <i>[Signature]</i>		DATE <u>12/5/23</u>	CITY ENGINEER: _____	EXP. <u>31 MAR 2025</u>	CHECK <u>DA</u>	BOOK _____	CITY OF BERKELEY DEPARTMENT OF PUBLIC WORKS	SANITARY SEWER REHABILITATION URGENT SEWER REPAIR PROJECT FY 2024 TITLE, VICINITY, LOCATION MAP AND INDEX	REVISION _____
FOR REDUCED PLANS - ORIGINAL SCALE IS IN INCHES		DATE <u>12/5/23</u>	CITY ENGINEER: _____	EXP. <u>9/30/2025</u>	AS BUILT _____	DATE <u>12/06/2024</u>			MARK _____

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GENERAL NOTES

- 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.
 - 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.
 - 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.
 - 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.
 - NEW PRECAST MAINTENANCE HOLES SHALL BE THE ECCENTRIC-TAPER TYPE, UNLESS OTHERWISE NOTED.
 - 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.
 - 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.
 - 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.
 - ALL NEW DROP MAINTENANCE HOLES SHALL BE OUTSIDE DROP WITH CONCRETE ENCASEMENT. SEE STANDARD DETAIL DRAWING IN THE SPECIFICATIONS.
 - PROVIDE FLEXIBLE JOINTS FOR ALL MAINTENANCE HOLES IN ACCORDANCE WITH SUBSECTION 303-8.7 OF THE TECHNICAL PROVISIONS.
 - 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.
 - 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.
 - 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.
 - 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.
 - CONTRACTOR SHALL INSTALL LOCATING WIRE ON NEW PIPES IN ACCORDANCE WITH THE SPECIFICATIONS.
 - 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.
 - 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 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.

- 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.
 - PIPE TYPES TO BE USED FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH SUBSECTION 207-19 AND 207-25 OF THE TECHNICAL PROVISIONS.
 - 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.
 - 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.
 - 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.
 - RIGHT OF WAY LINES AND PROPERTY LINES SHOWN ARE APPROXIMATE.
 - 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.
 - 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.
 - 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.
 - 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.
 - 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.
 - 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

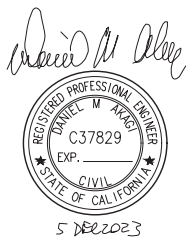
ABAN	ABANDONED	MAX	MAXIMUM
AC	ASPHALT CONCRETE	MH	MAINTENANCE HOLE
APPD	APPROVED	MIN	MINIMUM
APPROX	APPROXIMATE	MISC	MISCELLANEOUS
		MON	CITY SURVEY MONUMENT
BC	BEGIN CURVE	N	NORTH
BLVD	BOULEVARD	N/A	NOT APPLICABLE
BM	BENCHMARK	NIC	NOT IN CONTRACT
BOL	BOLLARD	NTS	NOT TO SCALE
BOT	BOTTOM		
C OR CATV	CABLE 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 PAVEMENT
		PVMT	
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		
		S	SOUTH OR SLOPE
E	EAST OR ELECTRICITY	SD	STORM DRAIN
EA	EACH	SDR	STANDARD THERMOPLASTIC
EBMUD	EAST BAY MUNICIPAL UTILITY DISTRICT		PIPE DIMENSION RATIO
EC	END CURVE	SECT	SECTION
ECC	ECCENTRIC	SHT	SHEET
EL	ELEVATION	SIG	TRAFFIC SIGNAL POLE
ELEC	ELECTRICITY	SLB	STREET LIGHT BOX
EP	EDGE OF PAVEMENT	SPECS	SPECIFICATIONS
EX	EXISTING	SS	SANITARY SEWER
		STA	STATION
		STD	STANDARD
		T	TELEPHONE
		T&B	TOP AND BOTTOM
		TC	TOP OF CURB OR CONCRETE
		TEL	TELEPHONE
		TP	TELEPHONE POLE
		TSB	TRAFFIC SIGNAL BOX
		TYP	TYPICAL
		UG	UNDERGROUND
		U	UTILITY
		V	VAULT
		VAR	VARIES OR VARIABLE
		VERT	VERTICAL
		VCP	VITRIFIED CLAY PIPE
		W	WEST OR WATER
		WM	WATER METER
		WV	WATER VALVE
		YD	YARD

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

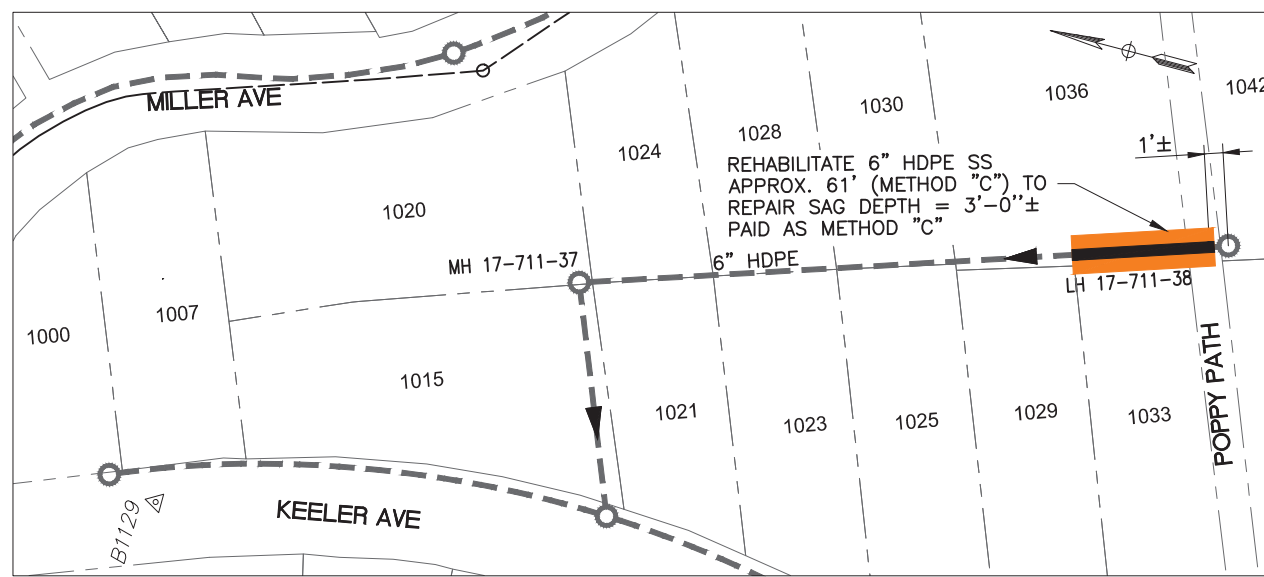
SEWER REPLACEMENT METHODS

- 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.

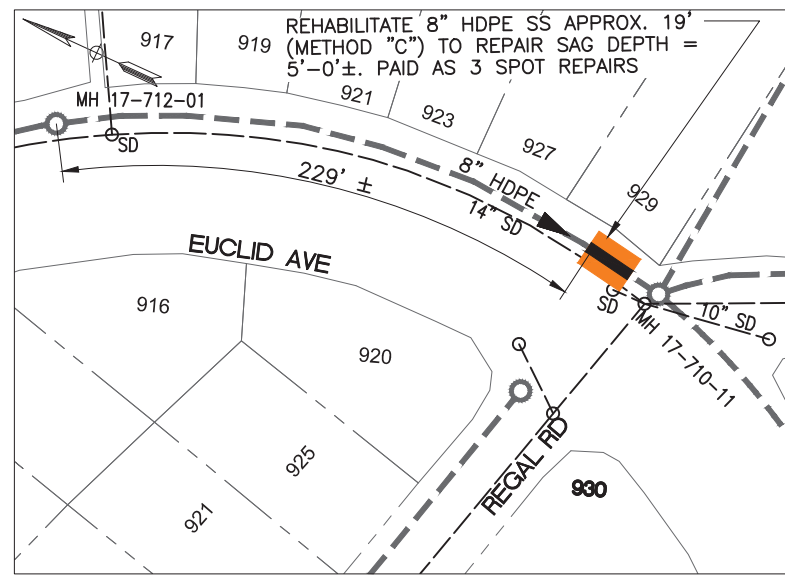


PROJECT MANAGER: _____	DEPICTION OF MONUMENTS: _____	DATE _____	SUBMITTED: _____	DATE _____	DESIGN JC	HORIZ. <u>NONE</u>	<h1>CITY OF BERKELEY</h1> <p>DEPARTMENT OF PUBLIC WORKS</p>	<p>SANITARY SEWER REHABILITATION URGENT SEWER REPAIR PROJECT FY 2024</p> <p>ABBREVIATIONS, LEGEND AND GENERAL NOTES</p>	PLAN <u>8281</u>
DATE _____	SURVEY PARTY CHIEF _____	_____	SUPERVISING CIVIL ENGINEER _____	R.C.E. _____	DRAWN <u>PW</u>	VERT. <u>NONE</u>			FILE <u>503-638</u>
<p>FOR REDUCED PLANS - ORIGINAL SCALE IS IN INCHES</p>	WATERSHED REVIEW: _____	DATE _____	APPROVED: _____	R.C.E. _____	CHECK <u>DA</u>	BOOK _____			G2
			CITY ENGINEER _____	EXP. _____	AS BUILT _____	DATE <u>12/06/23</u>		SHEET <u>2</u> OF <u>9</u>	

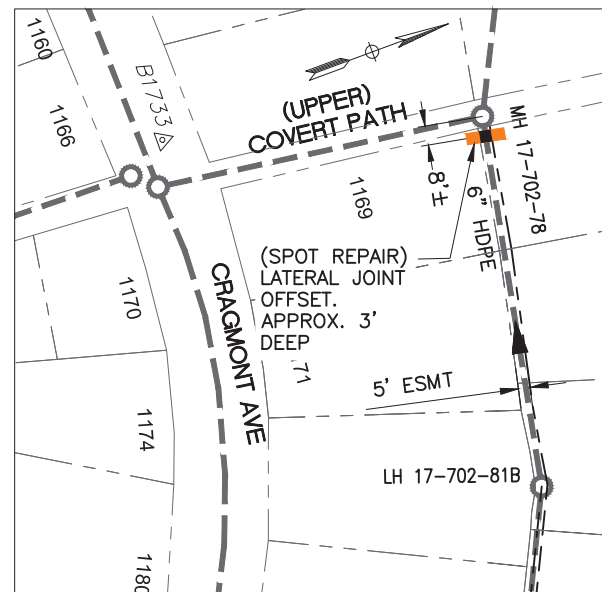
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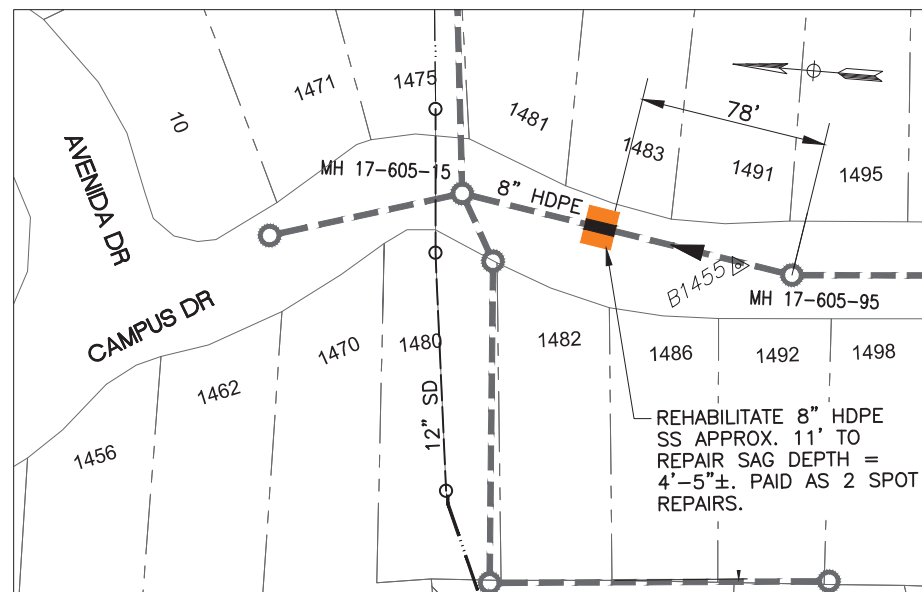
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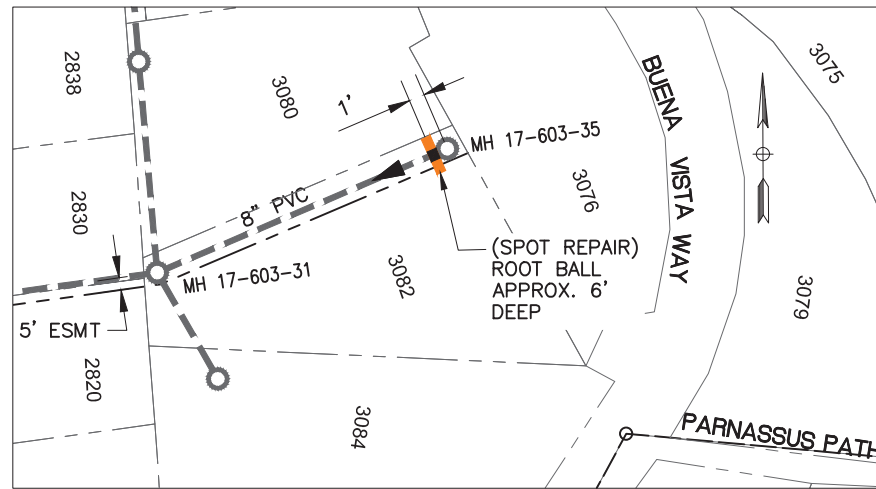
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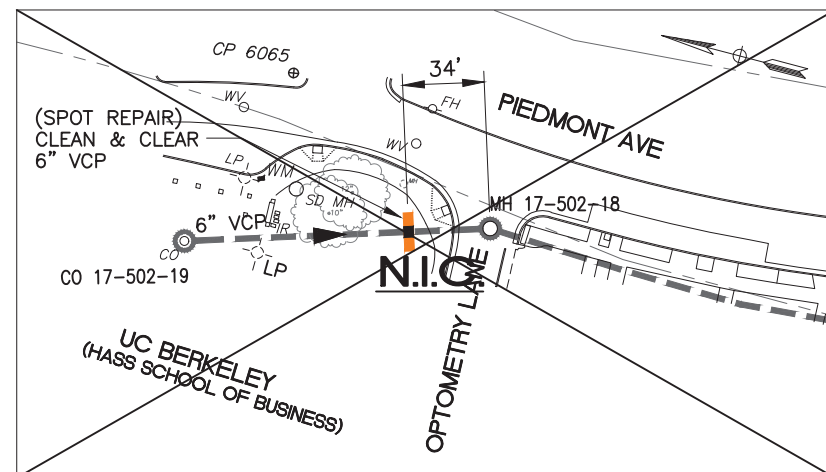
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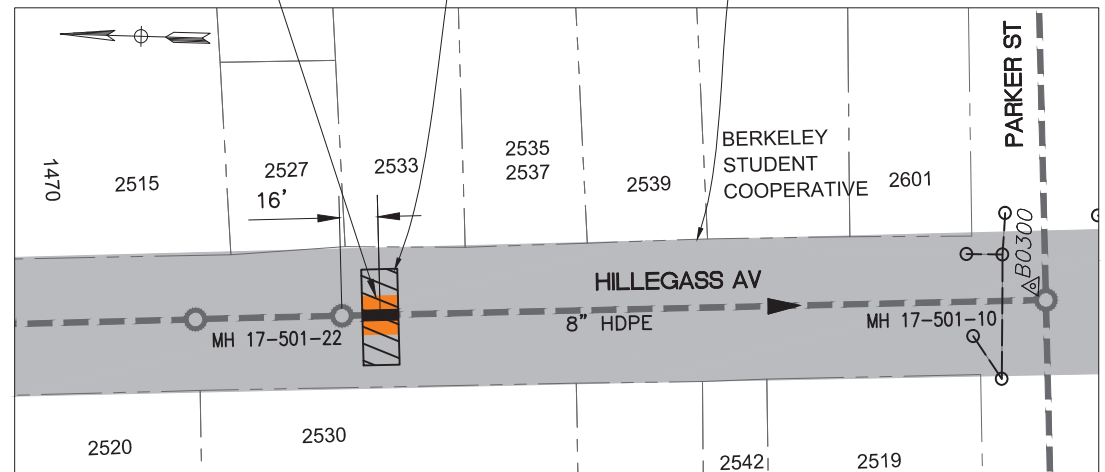
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REPAIR LOCATION 5
N.T.S.



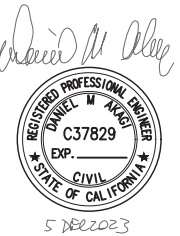
REPAIR LOCATION 6
N.T.S.



REPAIR LOCATION 7
N.T.S.

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 AND WORK OUTSIDE THE RIGHT-OF-WAY BEFORE WRITTEN AUTHORIZATION FROM ENGINEER.
- 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.
- CONTRACTOR SHALL NOTIFY ENGINEER IF THE PROPOSED REHABILITATED SEWER LINE IS BRICK PRIOR TO STARTING ANY WORK. ALL EXISTING BRICK SEWER LINES SHALL BE COMPLETELY REMOVED AND REPLACED PER BID ITEM 9.
- PROVIDE POST-CONSTRUCTION PICTURES OF THE REHABILITATED SEWER LINES. DOCUMENTATION SHALL CONSIST OF HARD COPY PHOTOS AND SOFT COPY IMAGES (JPG OR TIFF, 100KB TO 1MB IN SIZE) OF THE INTERIOR OF THE SEWER LINE. PHOTOS SHALL BE TAKEN IN A NORTHERN ORIENTATION.



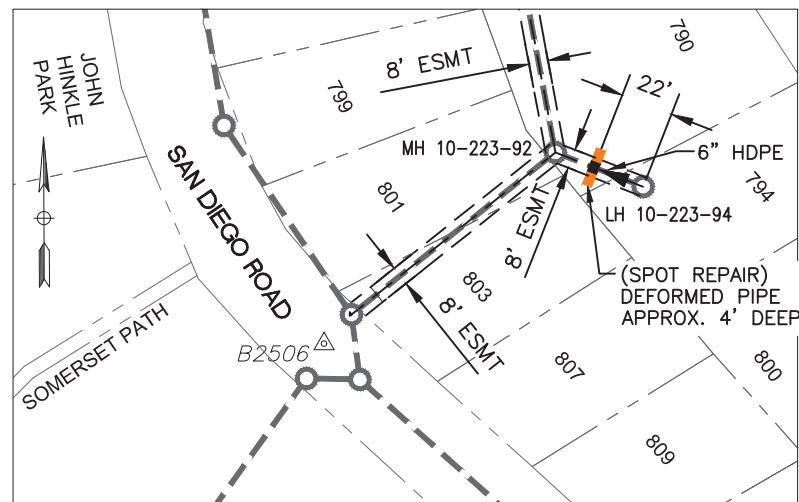
REHABILITATE 8" HDPE SS APPROX. 15' (METHOD "C") TO REPAIR SAG DEPTH = 9'-0"±. PAID AS 2 SPOT REPAIRS

GRIND 2" AND PAVE 2" HMA, APPROX. 400 SQ. FT. LIMITS TO BE DETERMINED BY ENGINEER

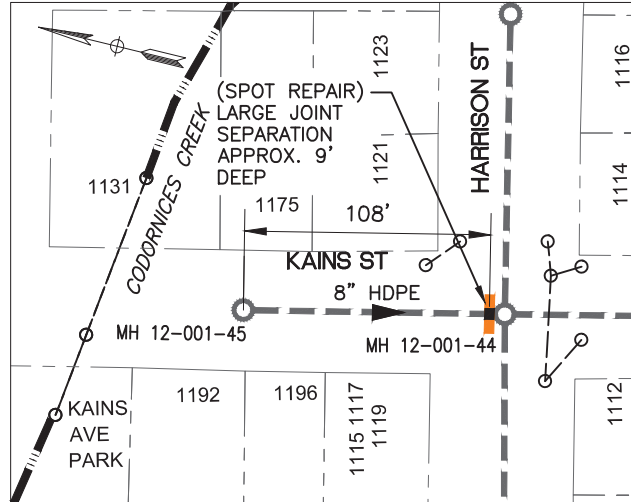
PAVEMENT ON HILLEGASS AVE IS UNDER MORATORIUM THRU 12/1/2028. TRENCH AND SURFACE RESTORATION SHALL BE PERFORMED IN ACCORDANCE WITH COB STANDARD DETAIL 8136

PROJECT MANAGER: _____	DEPICTION OF MONUMENTS: _____	DATE _____	SUBMITTED: _____	DATE _____	DESIGN: JC	HORIZ.: NONE	CITY OF BERKELEY DEPARTMENT OF PUBLIC WORKS	SANITARY SEWER REHABILITATION URGENT SEWER REPAIR PROJECT FY 2024 REPAIR LOCATIONS PLAN	PLAN 8281
DATE _____	SURVEY PARTY CHIEF _____	DATE _____	SUPERVISING CIVIL ENGINEER _____	R.C.E. _____	DRAWN: PW	VERT.: NONE			FILE 503-638
WATERSHED REVIEW: _____			APPROVED: _____	DATE _____	CHECK: DA	BOOK _____	REVISION	MARK	C1
DATE _____			CITY ENGINEER _____	R.C.E. _____	AS BUILT _____	DATE 12/06/23			DATE

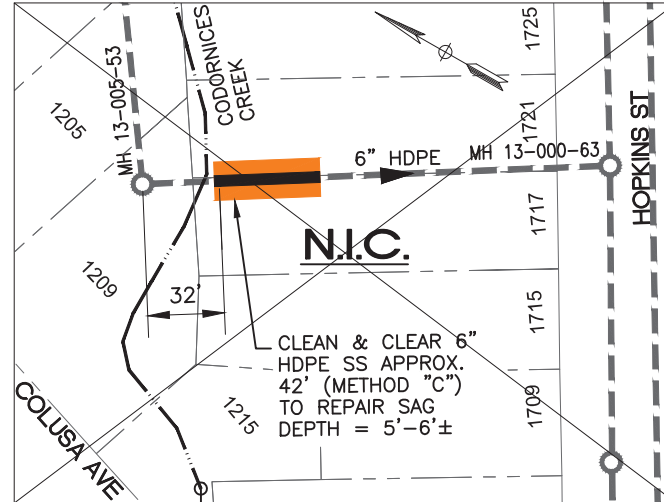
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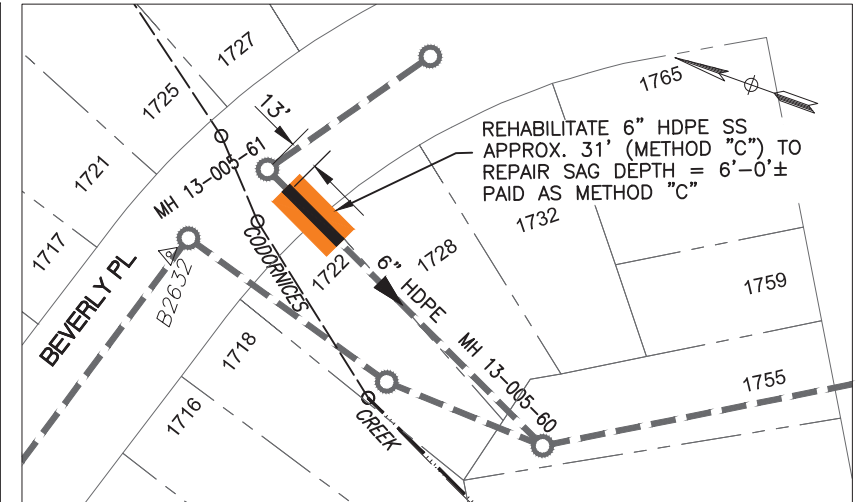
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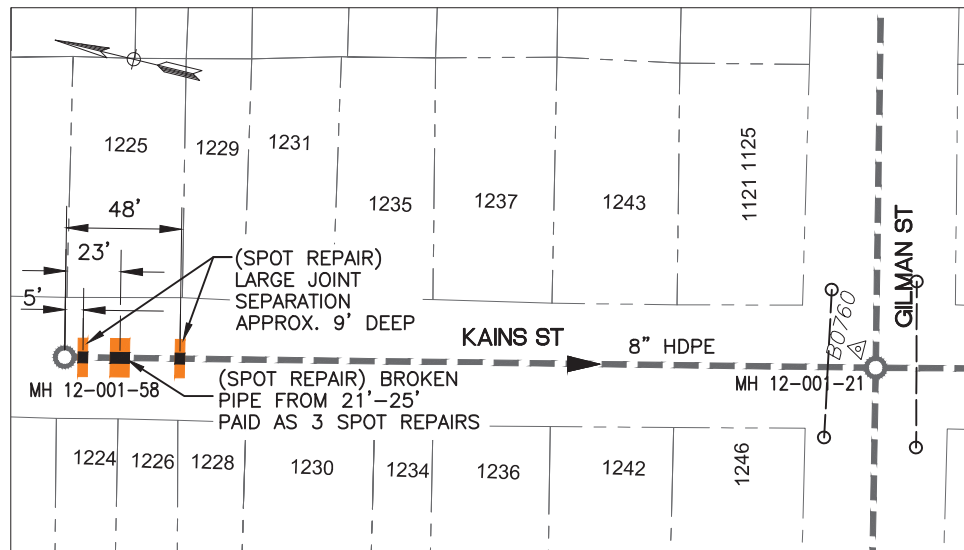
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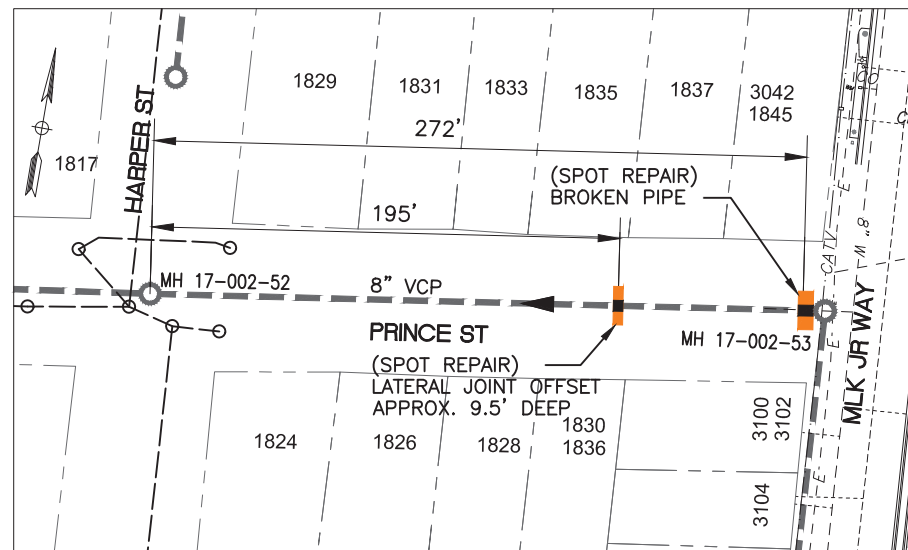
REPAIR LOCATION 10
N.T.S.



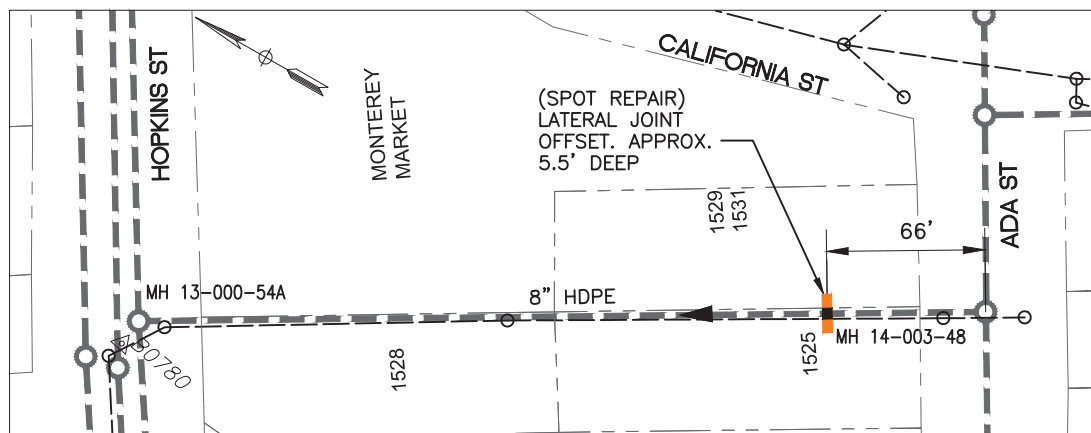
REPAIR LOCATION 11
N.T.S.



REPAIR LOCATION 12
N.T.S.



REPAIR LOCATION 13
N.T.S.



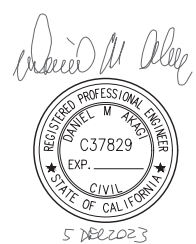
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REPAIR LOCATION 15
N.T.S.

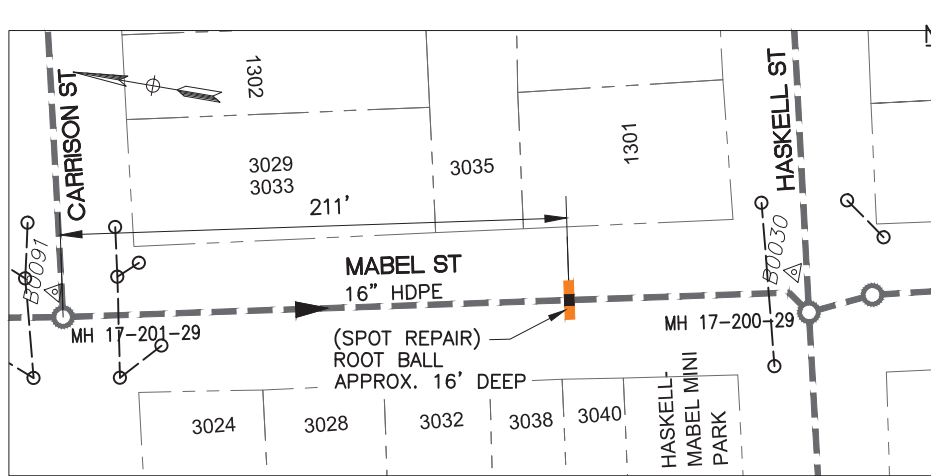
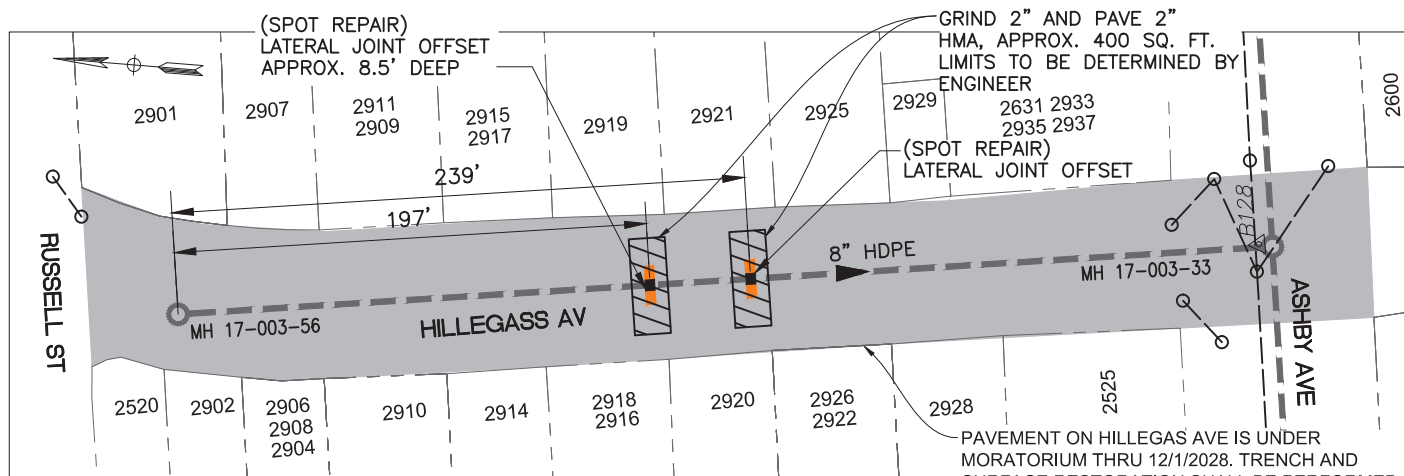
NOTES:

- 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.
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- PROVIDE POST-CONSTRUCTION PICTURES OF THE REHABILITATED SEWER LINES. DOCUMENTATION SHALL CONSIST OF HARD COPY PHOTOS AND SOFT COPY IMAGES (JPG OR TIFF, 100KB TO 1MB IN SIZE) OF THE INTERIOR OF THE SEWER LINE. PHOTOS SHALL BE TAKEN IN A NORTHERN ORIENTATION.

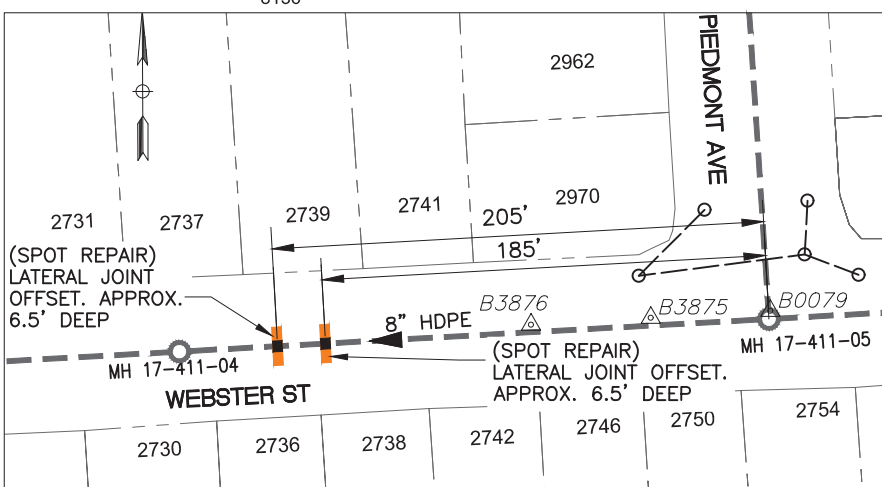
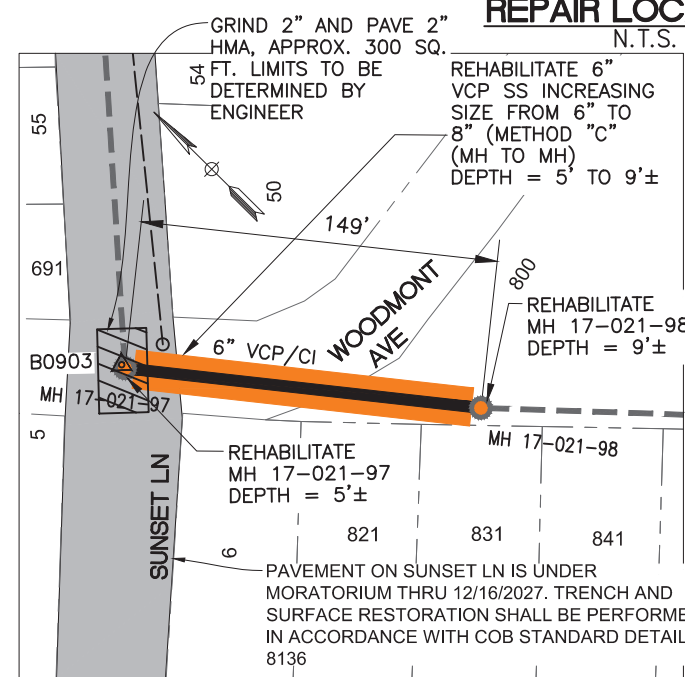


PROJECT MANAGER: _____	DEPICTION OF MONUMENTS: _____ DATE _____	SUBMITTED: _____ DATE _____	DESIGN: JC	HORIZ.: NONE	CITY OF BERKELEY DEPARTMENT OF PUBLIC WORKS	SANITARY SEWER REHABILITATION URGENT SEWER REPAIR PROJECT FY 2024 REPAIR LOCATIONS PLAN	PLAN 8281
DATE _____	SURVEY PARTY CHIEF _____	SUPERVISING CIVIL ENGINEER _____	DRAWN: PW	VERT.: NONE			FILE 503-638
WATERSHED REVIEW: _____ DATE _____		APPROVED: _____	CHECK: DA	BOOK: _____	REVISION	PLAN	C2
FOR REDUCED PLANS - ORIGINAL SCALE IS IN INCHES		CITY ENGINEER _____	AS BUILT: _____	DATE: 12/06/23			SHEET 4 OF 9

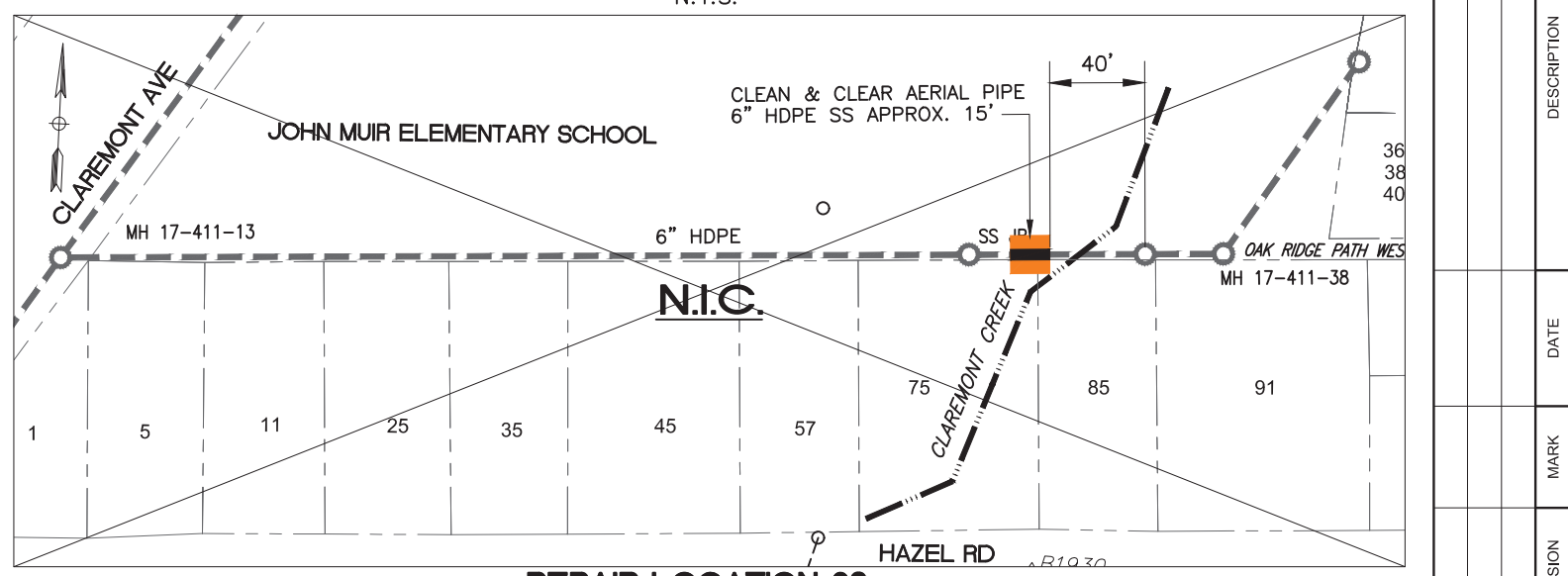
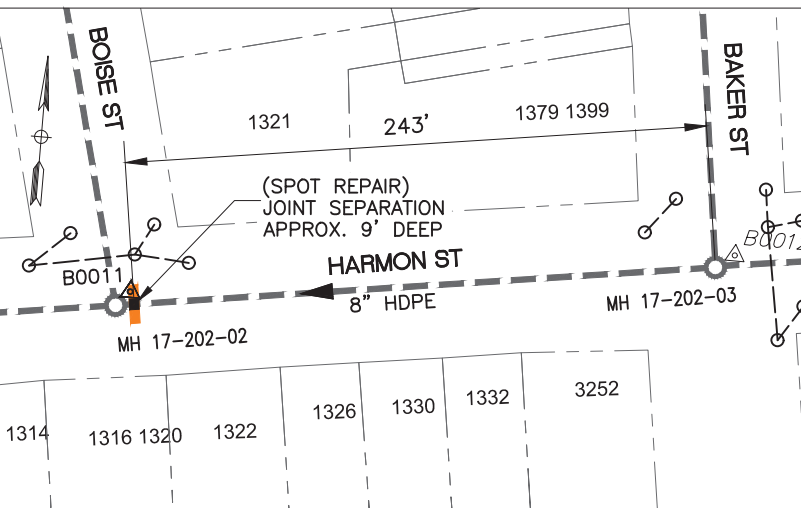
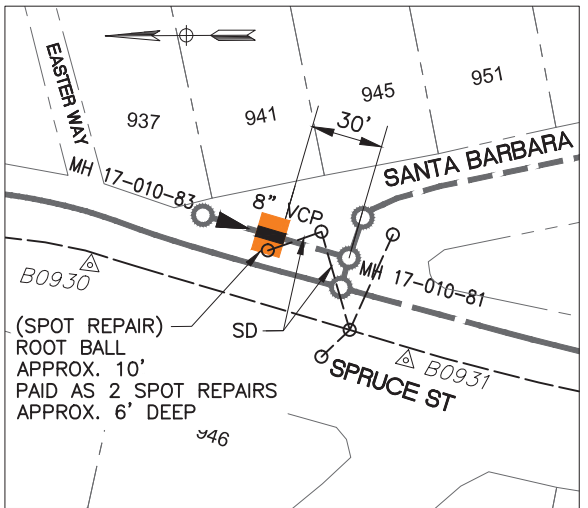
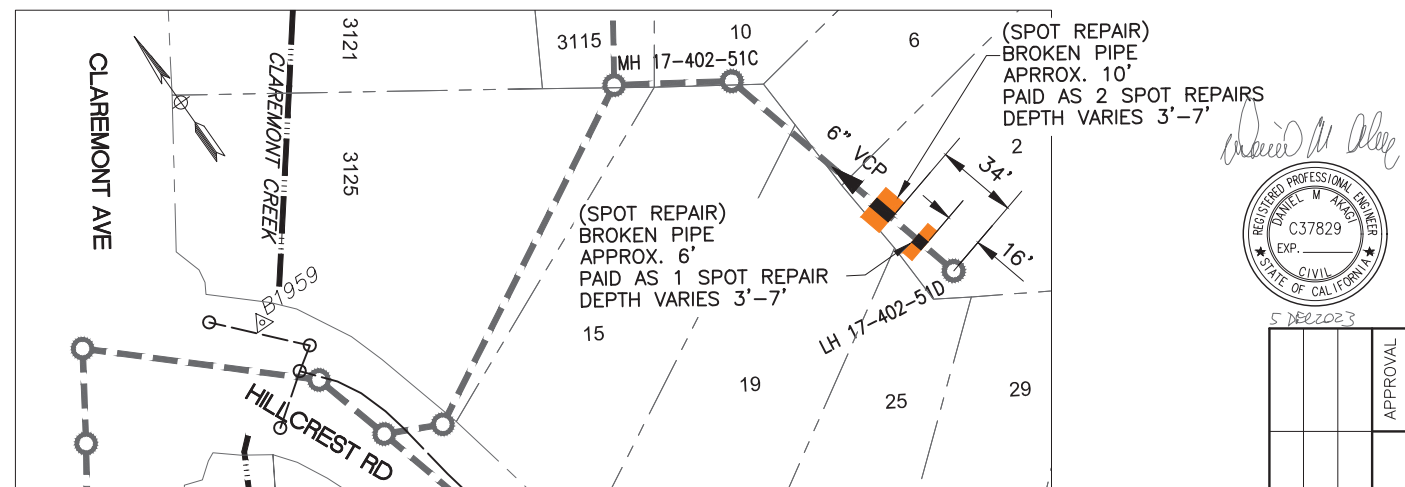
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- NOTES:**
- FOR GENERAL NOTES SEE SHEET 2 OF THE PLANS.
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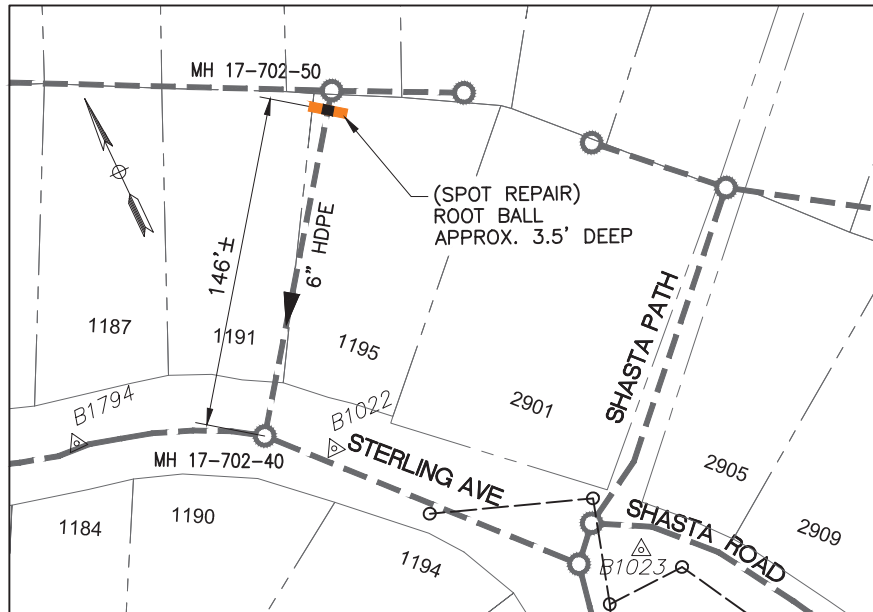


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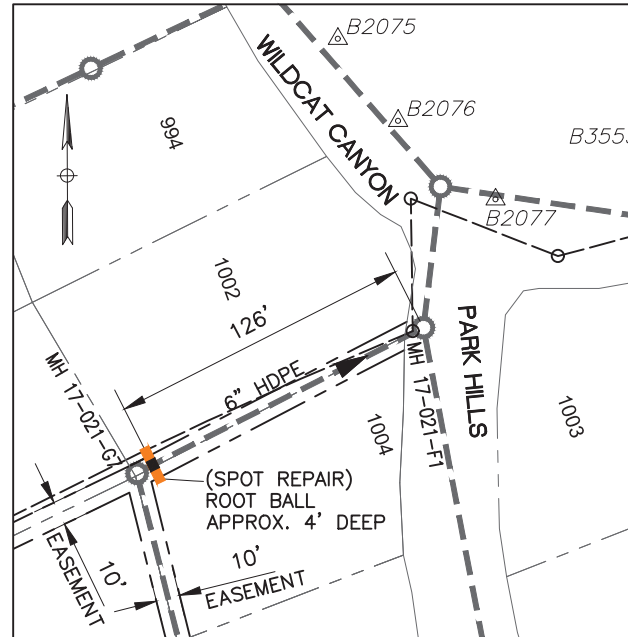


PROJECT MANAGER: _____	DEPICTION OF MONUMENTS: _____	DATE: _____	SUBMITTED: _____	DATE: _____	DESIGN: JC	HORIZ.: NONE	CITY OF BERKELEY DEPARTMENT OF PUBLIC WORKS	SANITARY SEWER REHABILITATION URGENT SEWER REPAIR PROJECT FY 2024 REPAIR LOCATIONS PLAN	PLAN 8281
DATE: _____	SURVEY PARTY CHIEF: _____	DATE: _____	SUPERVISING CIVIL ENGINEER: _____	DATE: _____	DRAWN: PW	VERT.: NONE			FILE 503-638
WATERSHED REVIEW: _____		DATE: _____	APPROVED: _____	DATE: _____	CHECK: DA	BOOK: _____	REVISION	PLAN	C3
FOR REDUCED PLANS - ORIGINAL SCALE IS IN INCHES		DATE: _____	CITY ENGINEER: _____	DATE: 12/06/23	AS BUILT: _____	DATE: 12/06/23			MARK

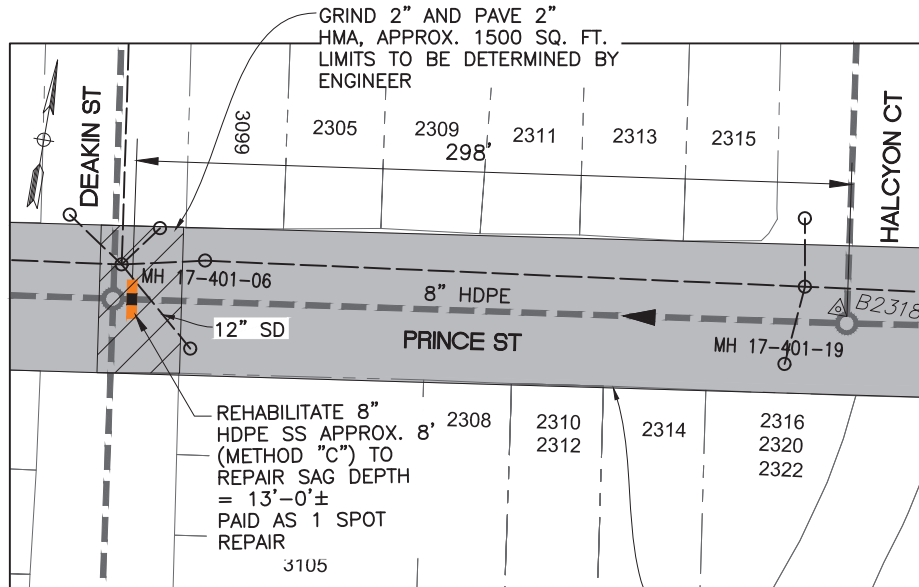
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REPAIR LOCATION 24
N.T.S.

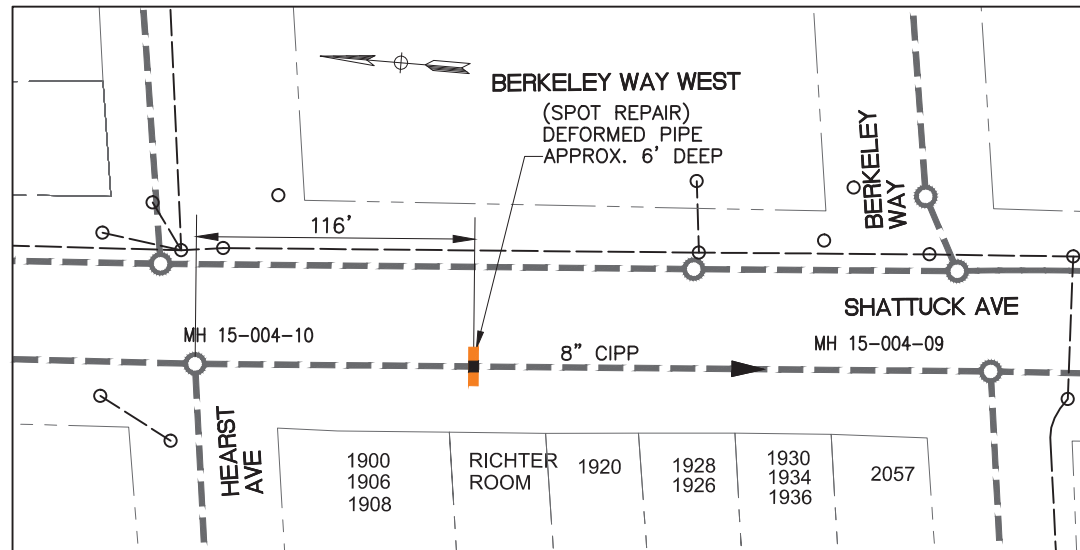


REPAIR LOCATION 25
N.T.S.



REPAIR LOCATION 26
N.T.S.

PAVEMENT ON PRINCE ST IS UNDER MORATORIUM THRU 7/31/2024. TRENCH AND SURFACE RESTORATION SHALL BE PERFORMED IN ACCORDANCE WITH COB STANDARD DETAIL 8136



REPAIR LOCATION 27
N.T.S.

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REVISION	MARK	DATE	DESCRIPTION	APPROVAL

PROJECT MANAGER: _____	DEPICTION OF MONUMENTS: _____	DATE: _____	SUBMITTED: _____	DATE: _____	DESIGN: JC	HORIZ.: NONE	CITY OF BERKELEY DEPARTMENT OF PUBLIC WORKS	SANITARY SEWER REHABILITATION URGENT SEWER REPAIR PROJECT FY 2024 REPAIR LOCATIONS PLAN	PLAN 8281
DATE: _____	SURVEY PARTY CHIEF: _____	DATE: _____	SUPERVISING CIVIL ENGINEER: _____	R.C.E.: _____	DRAWN: PW	VERT.: NONE			FILE 503-638
WATERSHED REVIEW: _____		DATE: _____	APPROVED: _____	R.C.E.: _____	CHECK: DA	BOOK: _____			C4
FOR REDUCED PLANS - ORIGINAL SCALE IS IN INCHES		DATE: _____	CITY ENGINEER: _____	EXP.: _____	AS BUILT: _____	DATE: 12/06/23		SHEET 6 OF 9	

G:\ENGINEER\PROJECTS\2023\SR Sanitary Sewer Repair\2023-007 Urgent Sewer Repair\2024\01 Design\Spot Repair Plans\8264_05_Repair Table.dwg Dec 06, 2023 - 12:04pm

Location	Repair #.	Nearest Address	AssetID	Pipe Size	Pipe Material	DESCRIPTION	APPROX.DEPTH (ft)
1	1	Miller Ave	17-711-38-17-711-37	6	HDPE	Sag with settled deposits @ 1' downstream from MH 17-711-38.	2'
2	2	Euclid Ave	17-712-01-17-710-11	8	HDPE	Sag @ 229' downstream from MH 17-712-01.	5'
3	3	Keeler Ave	17-712-81B-17-702-78	6	HDPE	Large lateral joint offset @ 8' upstream from MH 17-702-78.	3'
4	4	Campus Dr	17-605-15-17-605-95	8	HDPE	Sag with attached deposits starts @ 77' and ends @ 88' downstream from MH 17-605-95.	4.5'
5	5	Buena Vista	17-603-35-17-603-31 D29	8	PVC	Root ball @ 1' downstream from MH 17-603-35.	6'
7	7	Hillegass Ave	17-501-22-17-501-10	8	HDPE	Sag @ 16' downstream from MH 17-501-22.	9'
8	8	San Diego Rd	10-223-94-10-223-92	6	HDPE	Deformed pipe @ 22' downstream from MH 10-223-94.	4'
9	9	Kains Ave	12-001-45-12-001-44	8	HDPE	Large joint separation @ 108' downstream from MH 12-001-45.	9'
11	11	Beverly Pl	13-005-61-13-005-60	6	HDPE	Sag with attached grease @ 13' downstream from MH 13-005-61.	6'
12	12	Kains Ave	12-001-58-12-001-21	6	VCP	Large joint separation @ 108' downstream from MH 12-001-45.	6'
13	13	Prince St	17-002-53-17-002-52	8	VCP	Large lateral joint offset @ 195' upstream from MH 17-002-52. Broken pipe @ 272' upstream from MH 17-002-52.	9.5'
14	14	Ada St	14-003-48-13-000-54A	8	HDPE	Lateral joint offset with soil visible @ 66' downstream from MH 14-003-48.	5.5'
15	15	Shasta Rd	17-016-93-17-016-92	8	PVC	Root ball at the pipe entrance of MH 17-016-93.	5.5'
16	16	Hillegass Ave	17-003-56-17-003-33	8	HDPE	Lateral joint offset @ 197' and 239' downstream from MH 17-003-56.	8.5'
17	17	Mabel St	17-201-29-17-200-29	16	HDPE	Roots growing inside lateral @ 211' downstream from MH 17-201-29.	16'
18	18	Woodmont Ave	17-021-98-17-021-97	6	VCP/C.I.	Mutiple large joint offsets with soil visible and root intrusion.	5' to 9'
19	19	Webster St	17-411-05-17-411-04	8	HDPE	Lateral joint separation with soil visible @ 185' downstream from MH 17-411-05. Large lateral joint offset @ 205' downstream from MH 17-411-05.	6.5'
20	20	Hillcrest Ct	17-402-51D-17-402-51C	6	VCP	Broken pipe from 16' to 21' and from 34' to 44' downstream of MH 17-402-51D.	3' to 7'
21	21	Spruce St	17-010-83-17-010-81	8	VCP	Root ball from 30' to 40' upstream from MH 17-010-81.	6'
22	22	Harmon St	17-202-03-17-202-02	8	HDPE	Large joint separation with soil visible and groundwater infiltration @ 245' downstream from MH 17-202-03.	9'
24	24	Sterling Ave	17-702-50-17-502-40	6	HDPE	Root ball @ 146' upstream from MH 17-702-40	3.5'
25	25	Park Hills Rd	17-021G7-17-021-F1	6	HDPE	Root ball @ 126' upstream from MH 17-021-F1	4'
26	26	Prince St	17-401-19-17-401-06	8	HDPE	Sag starts @ 297' and ends @ 305' downstream from MH 17-401-19.	13'
27	27	Shattuck Ave	15-004-10-15-004-09	8	CIPP	Deformed pipe @ 116' downstream from MH 15-004-10.	6'

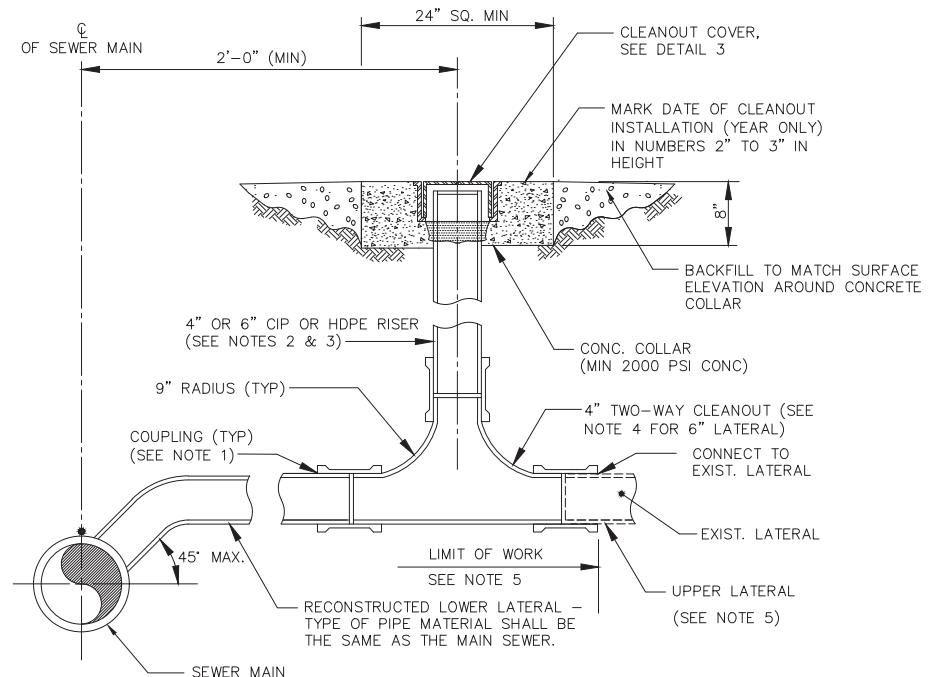


5/18/2023

			APPROVAL
			DESCRIPTION
			DATE
			MARK
			REVISION

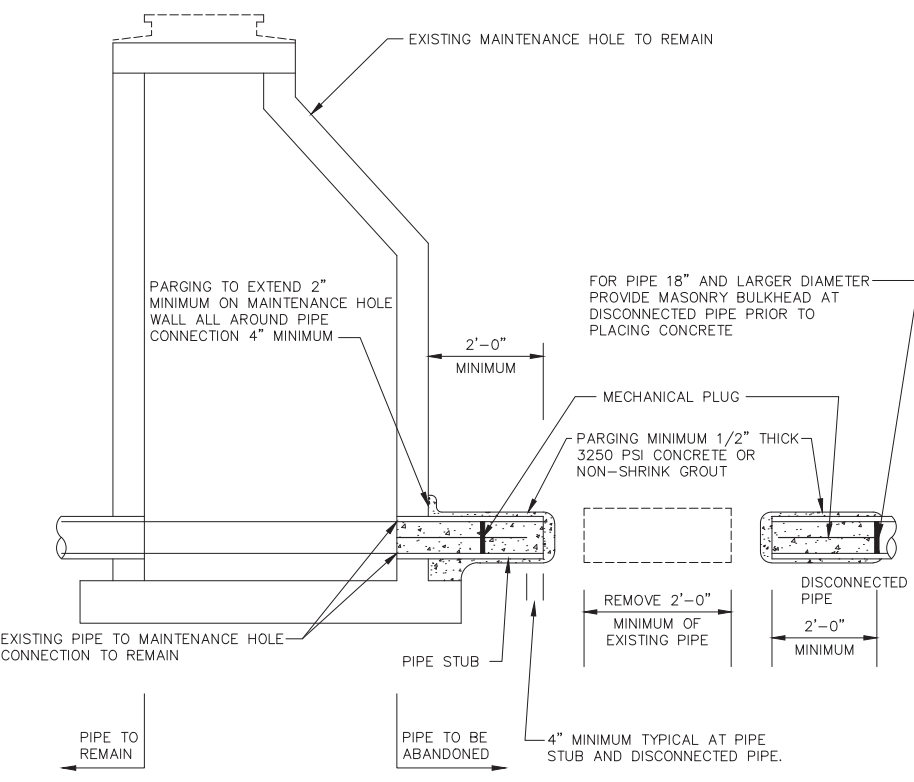
PROJECT MANAGER: _____	DEPICTION OF MONUMENTS: _____ DATE _____	SUBMITTED: _____ DATE _____	DESIGN: JC _____	HORIZ: NONE _____	CITY OF BERKELEY DEPARTMENT OF PUBLIC WORKS	SANITARY SEWER REHABILITATION URGENT SEWER REPAIR PROJECT FY 2023 REPAIR TABLE	PLAN 8281
DATE _____	SURVEY PARTY CHIEF _____	SUPERVISING CIVIL ENGINEER _____	DRAWN: PW _____	VERT: NONE _____			FILE 503-638
WATERSHED REVIEW: _____ DATE _____		APPROVED: _____ DATE _____	CHECK: DA _____	BOOK _____	AS BUILT _____	REPAIR TABLE	C5
FOR REDUCED PLANS - ORIGINAL SCALE IS IN INCHES		CITY ENGINEER _____	DATE 12/07/2023				SHEET 7 OF 9

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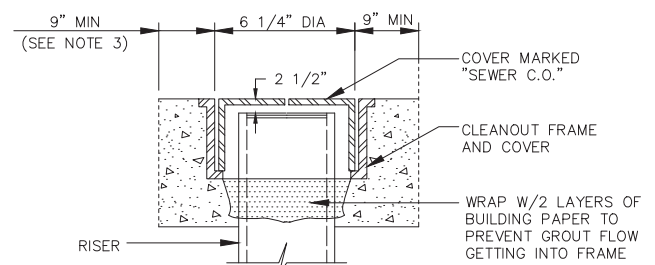
- NOTES:
1. COUPLINGS SHALL BE TYPE 'D' JOINTS W/316 OR 304-STAINLESS STEEL BANDS.
 2. RISER SHALL BE VERTICAL.
 3. RISER SHALL BE CAST IRON IN DRIVEWAY.
 4. FOR 6" LATERAL INSTALL 45° WYE (DOWNSTREAM DIRECTION).
 5. SEWER MAIN IN THE BACKLINE SEWER AREA, INSTALL NEW TWO WAY CLEANOUT 6 FT. MINIMUM FROM THE SEWER MAIN. ADJUST THE CLEANOUT LOCATION AS NEEDED TO FIT THE SITE CONDITION.

SEWER MAIN IN STREET AREA
LATERAL RECONSTRUCTION
DETAIL 1 VAR NOT TO SCALE



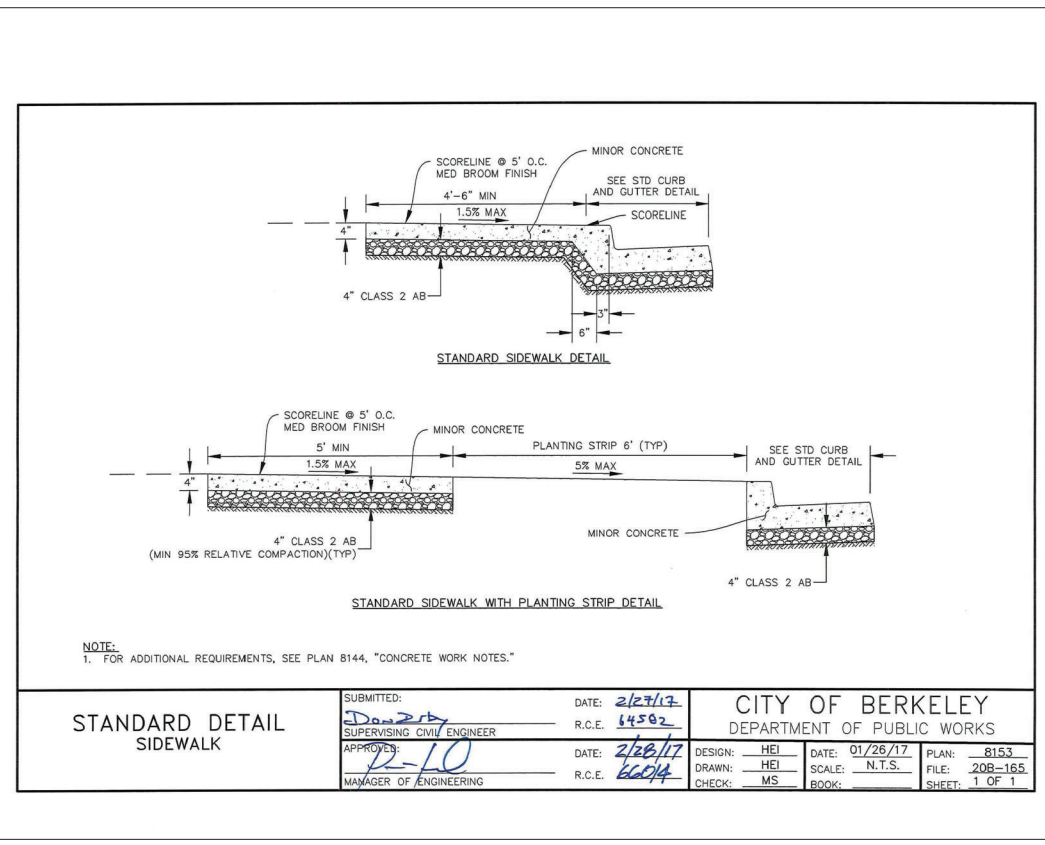
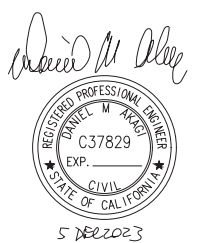
- NOTES:
1. FOR SEWERS 15" AND SMALLER DIAMETER, DISCONNECT SEWER AS SHOWN, INSERT MECHANICAL PLUGS, PLACE CONCRETE, PARGING AND COAT WITH TWO COATS OF ASPHALT BASE COATING.
 2. FOR SEWER 18" AND LARGER DIAMETER, SAME AS 15" AND SMALLER EXCEPT MASONRY BULKHEAD MAY BE SUBSTITUTED FOR MECHANICAL PLUG.
 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 2 VAR NOT TO SCALE



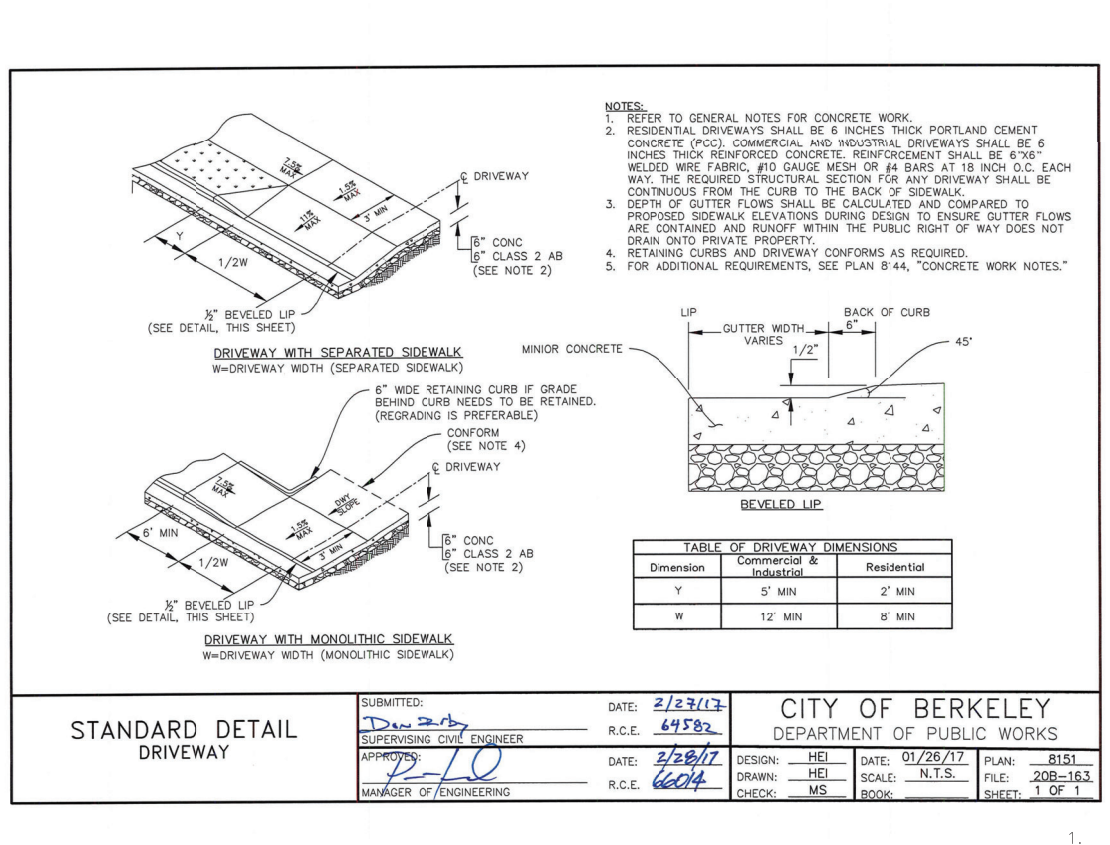
- NOTES:
1. LOCATION AS SHOWN ON DETAIL 2 OR AS SPECIFIED.
 2. WHEN RISER IS NOT SURROUNDED BY SIDEWALK, A 2'X2'X8", 2000 PSI CONCRETE COLLAR SHALL BE INSTALLED.
 3. EXIST SIDEWALK SHALL BE NEATLY SAWN TO A STRAIGHT AND SQUARE 2000 PSI CONCRETE PATCH IS INSTALLED AROUND FRAME. EDGE BEFORE CLEANOUT COVER (4" DIA.)

DETAIL 3 VAR NOT TO SCALE



NOTE:
1. FOR ADDITIONAL REQUIREMENTS, SEE PLAN 8144, "CONCRETE WORK NOTES."

STANDARD DETAIL SIDEWALK	SUBMITTED: <i>Don 2/27/17</i>	DATE: 2/27/17	CITY OF BERKELEY DEPARTMENT OF PUBLIC WORKS		
	SUPERVISING CIVIL ENGINEER	R.C.E. 64502	DESIGN: HEI	DATE: 01/26/17	PLAN: 8153
	APPROVED: <i>P-10</i>	DATE: 2/28/17	DRAWN: HEI	SCALE: N.T.S.	FILE: 20B-163
	MANAGER OF ENGINEERING	R.C.E. 66014	CHECK: MS	BOOK:	SHEET: 1 OF 1



- NOTES:
1. REFER TO GENERAL NOTES FOR CONCRETE WORK.
 2. RESIDENTIAL DRIVEWAYS SHALL BE 6 INCHES THICK PORTLAND CEMENT CONCRETE (PCC). COMMERCIAL AND INDUSTRIAL DRIVEWAYS SHALL BE 6 INCHES THICK REINFORCED CONCRETE. REINFORCEMENT SHALL BE 6"x6" WELDED WIRE FABRIC, #10 GAUGE MESH OR #4 BARS AT 18 INCH O.C. EACH WAY. THE REQUIRED STRUCTURAL SECTION FOR ANY DRIVEWAY SHALL BE CONTINUOUS FROM THE CURB TO THE BACK OF SIDEWALK.
 3. DEPTH OF GUTTER FLOWS SHALL BE CALCULATED AND COMPARED TO PROPOSED SIDEWALK ELEVATIONS DURING DESIGN TO ENSURE GUTTER FLOWS ARE CONTAINED AND RUNOFF WITHIN THE PUBLIC RIGHT OF WAY DOES NOT DRAIN ONTO PRIVATE PROPERTY.
 4. RETAINING CURBS AND DRIVEWAY CONFORMS AS REQUIRED.
 5. FOR ADDITIONAL REQUIREMENTS, SEE PLAN 8'44, "CONCRETE WORK NOTES."

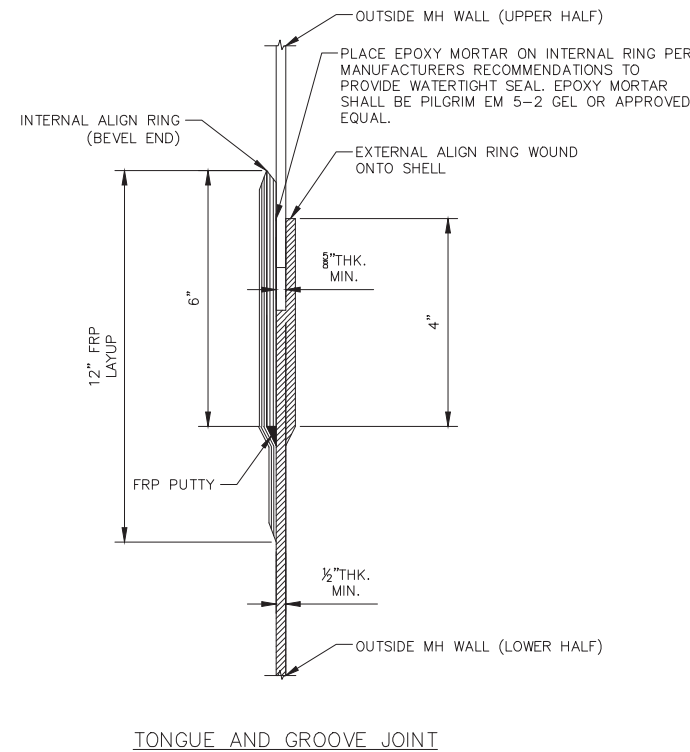
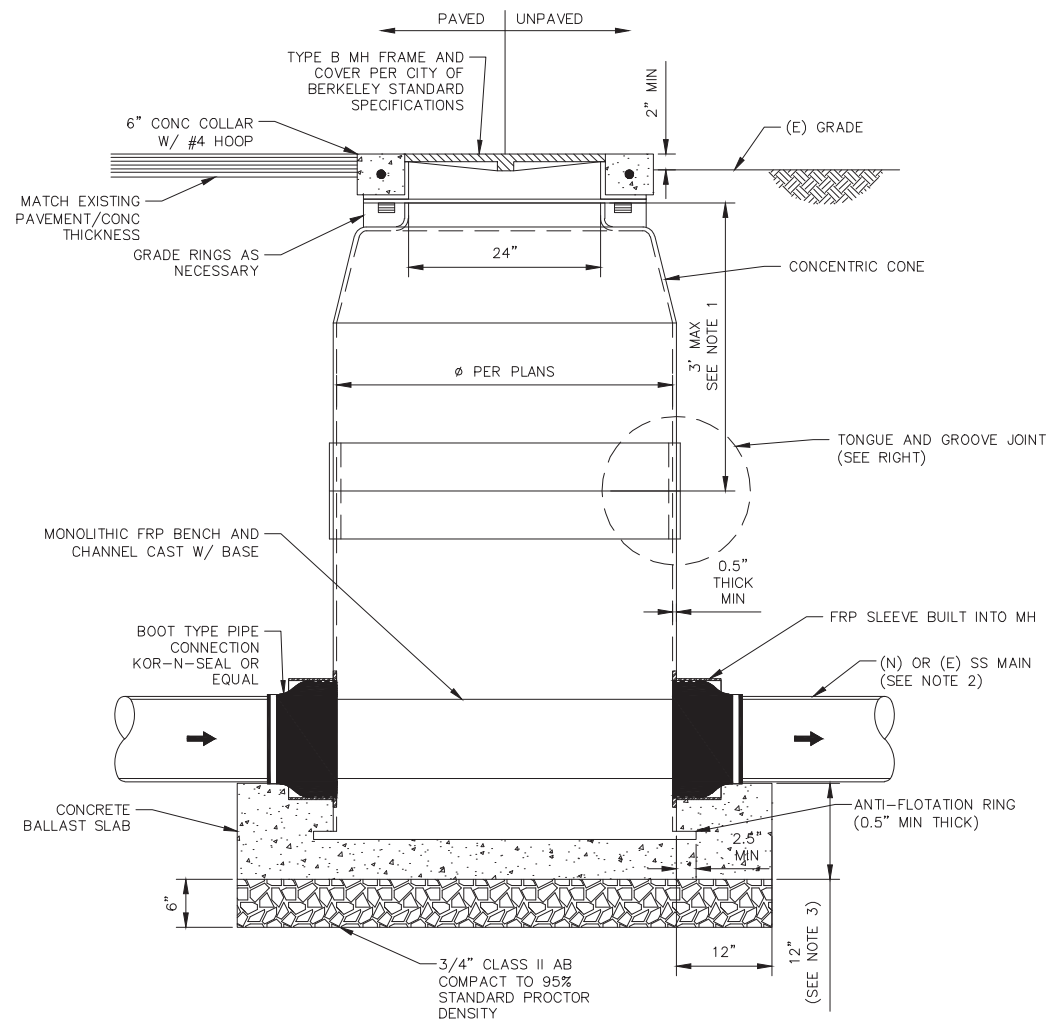
Dimension	Commercial & Industrial	Residential
Y	5' MIN	2' MIN
W	12' MIN	8' MIN

STANDARD DETAIL DRIVEWAY	SUBMITTED: <i>Don 2/27/17</i>	DATE: 2/27/17	CITY OF BERKELEY DEPARTMENT OF PUBLIC WORKS		
	SUPERVISING CIVIL ENGINEER	R.C.E. 64502	DESIGN: HEI	DATE: 01/26/17	PLAN: 8151
	APPROVED: <i>P-10</i>	DATE: 2/28/17	DRAWN: HEI	SCALE: N.T.S.	FILE: 20B-163
	MANAGER OF ENGINEERING	R.C.E. 66014	CHECK: MS	BOOK:	SHEET: 1 OF 1

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

PROJECT MANAGER: _____	DEPICTION OF MONUMENTS: _____ DATE _____	SUBMITTED: _____ DATE _____	DESIGN: JC	HORIZ.: NONE	CITY OF BERKELEY DEPARTMENT OF PUBLIC WORKS	SANITARY SEWER REHABILITATION URGENT SEWER REPAIR PROJECT FY 2024 MISCELLANEOUS DETAILS	PLAN: 8281
DATE: _____	SURVEY PARTY CHIEF: _____	SUPERVISING CIVIL ENGINEER: _____	DRAWN: PW	VERT.: NONE			FILE: 503-638
FOR REDUCED PLANS - ORIGINAL SCALE IS IN INCHES	WATERSHED REVIEW: _____ DATE _____	APPROVED: _____	CHECK: DA	BOOK: _____			C6
		CITY ENGINEER: _____	AS BUILT: _____	DATE: 12/06/23			SHEET 8 OF 9

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NEW FIBERGLASS REINFORCED POLYESTER
SANITARY SEWER MAINTENANCE HOLE

DETAIL 6
NOT TO SCALE VAR

- NOTES:
- FOR MHS THAT ARE LESS THAN 4' IN DEPTH, OMIT TONGUE AND GROOVE JOINT AND CONSTRUCT MH MONOLITHICALLY. FOR MHS WITH DEPTHS 9' AND GREATER, CONSTRUCT MHS USING 2 TONGUE AND GROOVE JOINTS. CONTRACTOR SHALL CONFIRM MH DIAMETER SPECIFIED CAN BE INSTALLED AT LOCATIONS SHOWN IN PLANS PRIOR TO ORDERING MH MATERIALS.
 - CONTRACTOR SHALL VERIFY INVERTS OF CONNECTED PIPES PRIOR TO ORDERING MH MATERIALS. IF CONNECTING PIPES ARE HDPE, A PIPE STIFFENER IS REQUIRED WHEN USING A BOOT TYPE CONNECTOR.
 - CONCRETE BALLAST SLAB SHALL EXTEND 6" MIN UP FRP MH WALL.
 - BACKFILL 1' AROUND MANHOLE W/ CLSM IN 2 LIFTS MIN. LIFT DEPTH NOT TO EXCEED 10'.

David M. Deke

 5 Dec 2023

PROJECT MANAGER: _____	DEPICTION OF MONUMENTS: _____	DATE: _____	SUBMITTED: _____	DATE: _____	DESIGN: <u>JC</u>	HORIZ.: <u>NONE</u>	CITY OF BERKELEY DEPARTMENT OF PUBLIC WORKS	SANITARY SEWER REHABILITATION URGENT SEWER REPAIR PROJECT FY 2024 MISCELLANEOUS DETAILS	PLAN: <u>8281</u>
DATE: _____	SURVEY PARTY CHIEF: _____	DATE: _____	SUPERVISING CIVIL ENGINEER: _____	R.C.E.: _____	DRAWN: <u>PW</u>	VERT.: <u>NONE</u>			FILE: <u>503-638</u>
WATERSHED REVIEW: _____		DATE: _____	APPROVED: _____	R.C.E.: _____	CHECK: <u>DA</u>	BOOK: _____			C7
FOR REDUCED PLANS - ORIGINAL SCALE IS IN INCHES		DATE: _____	CITY ENGINEER: _____	EXP.: _____	AS BUILT: _____	DATE: <u>12/06/23</u>			SHEET <u>9</u> OF <u>9</u>