



Ann M. Stillman
Interim Director

County Government Center
555 County Center, 5th Floor
Redwood City, CA 94063
650-363-4100 T
650-361-8220 F
www.smcgov.org

February 18, 2022

COUNTY OF SAN MATEO

**SANITARY SEWER REPLACEMENT PROJECT
IN THE FAIR OAKS SEWER MAINTENANCE DISTRICT**

**TOTAL PROJECT APPROXIMATELY 5,851 FEET IN LENGTH
WITH APPURTENANT WORK THERETO
IN SAN MATEO COUNTY**

**COUNTY PROJECT NO. SF901
PROJECT FILE NO. E4692**

ADDENDUM NO. 1

TO ALL PLAN HOLDERS:

The following **Addendum No. 1** to the above referenced project, dated January 28, 2022, shall be included in the project specifications.

1. Quantities for Bid Items 23 through 26 have been updated. Page 5 of the NC (Notice to Contractors) Section shall be replaced in the Project Specifications:

Replace page 5 of the NC Section with page 5 (rev).

2. Quantities for Bid Items 23 through 26 have been updated. Page 5 of the PR (Proposal) Section shall be replaced in the Project Specifications:

Replace page 5 of the PR Section with page 5 (rev).

3. Caltrans' Encroachment Permit document shall be added to Appendix F in the Project Specifications.

Replace "Permit Pending Approval" page with State of California Department of Transportation Encroachment Permit No. 04-21-N-US-3530 (46 pages in total).

Please sign and return the attached "Receipt of Addendum No. 1" form. The "Receipt of Addendum No. 1" form MUST be received in this office no later than 4:00 PM, Wednesday, February 23, 2022 or the bid will NOT be considered. The Receipt of Addendum can be emailed to Krzysztof Lisaj's attention email at klisaj@smcgov.org, with carbon copy to alum@smcgov.org and mmanalo@smcgov.org.



To All Plan Holders

Sanitary Sewer Replacement Project in the Fair Oaks Sewer Maintenance District

Addendum No. 1

February 18, 2022

Page 2

If you have any questions or require additional information, please contact Michelle Manalo, Anthony Lum, or Krzysztof Lisaj of our office at (650) 363-4100. They can also be reached by e-mail at:

mmanalo@smcgov.org

alum@smcgov.org

klisaj@smcgov.org

Very truly yours,



Ann M. Stillman
Interim Director of Public Works

AMS:KL:AL:MM

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Encl.- "Receipt of Addendum No. 1" Form
Revised Page 5 (rev) of the NC Section
Revised Page 5 (rev) of the PR Section
Caltrans' Encroachment Permit No. 04-21-N-US-3530

cc: Krzysztof Lisaj, Principal Civil Engineer, Engineering and Construction
Anthony Lum, Senior Civil Engineer, Project Development and Design
Michelle Manalo, Associate Engineer, Project Development and Design
Mark Chow, Principal Civil Engineer, Utilities
Alan Velasquez, Senior Civil Engineer, Utilities



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February 18, 2022

COUNTY OF SAN MATEO

**SANITARY SEWER REPLACEMENT PROJECT
IN THE FAIR OAKS SEWER MAINTENANCE DISTRICT**

**COUNTY PROJECT NO. SF901
PROJECT FILE NO. E4692**

RECEIPT OF ADDENDUM NO. 1

I, _____, an
authorized representative for _____,
have received **Addendum No. 1** for the Sanitary Sewer Replacement Project in the Fair
Oaks Sewer Maintenance District from an authorized representative of the County of
San Mateo, which is to be included in the Specifications for the above referenced
project.

This form must be signed and received in the offices of the County of San Mateo,
Department of Public Works ***no later than 4:00 P.M., Wednesday, February 23, 2022.***

“Contractor”

(Print)

(Signature)

(Date)



Continued from previous page

Item No.	Item Description	Spec Section	Unit	Estimated Quantity
17	Replace Existing 10" VCP with 12" HDPE by Open Trench	203	LF	27
18	Replace Existing 15" VCP with 18" PVC by Open Trench	203	LF	1,154
19	Replace Existing 6" DIP with 6" PVC by Open Trench	203	LF	260
20	Replace Existing Sanitary Sewer Lateral	203-4	LF	100
21	Reconnect Existing Sanitary Sewer Laterals (Open-Trench)	203-4	EA	20
22	Remove Existing 10" VCP Sanitary Sewer Main (On Woodside)	203-7	LS	1
23	Pipe Burst Existing 10" VCP and Replace with 10" HDPE	204, 205	LF	<u>1,030</u> 885
24	Pipe Burst Existing 10" VCP and Replace with 12" HDPE	204, 205	LF	<u>1,343</u> 946
25	Pipe Burst Existing <u>12"</u> 10" VCP and Replace with <u>12"</u> 16" HDPE	204, 205	LF	<u>617</u> 548
26	Pipe Burst Existing 12" VCP and Replace with 16" HDPE	204, 205	LF	<u>377</u> 994
27	Pipe Burst Existing 15" VCP and Replace with 16" HDPE	204, 205	LF	739
28	Reconnect Existing Sanitary Sewer Laterals (Pipe-Bursting)	204-4	EA	69
29	Sag Repair	205	LF	143
30	SFPUC Water Transmission Line Crossing	207-1	LS	2
31	Pothole and Protect Existing Utilities	207-2	EA	20
32	Install New Sanitary Sewer Manhole	208-2	EA	2
33	Remove and Replace Existing Sanitary Sewer Manhole	208-3	EA	5

Continued on next page

Continued from previous page

Item No.	Item Description	Spec Section	Unit	Estimated Quantity	Item Price (In Figures)	Total (In Figures)
18	Replace Existing 15" VCP with 18" PVC by Open Trench	203	LF	1,154	\$	\$
19	Replace Existing 6" DIP with 6" PVC by Open Trench	203	LF	260	\$	\$
20	Replace Existing Sanitary Sewer Lateral	203-4	LF	100	\$	\$
21	Reconnect Existing Sanitary Sewer Laterals (Open-Trench)	203-4	EA	20	\$	\$
22	Remove Existing 10" VCP Sanitary Sewer Main (On Woodside)	203-7	LS	1	\$	\$
23	Pipe Burst Existing 10" VCP and Replace with 10" HDPE	204, 205	LF	<u>1,030</u> 885	\$	\$
24	Pipe Burst Existing 10" VCP and Replace with 12" HDPE	204, 205	LF	<u>1,343</u> 946	\$	\$
25	Pipe Burst Existing <u>12"</u> 40" VCP and Replace with <u>12"</u> 16" HDPE	204, 205	LF	<u>617</u> 548	\$	\$
26	Pipe Burst Existing 12" VCP and Replace with 16" HDPE	204, 205	LF	<u>377</u> 994	\$	\$
27	Pipe Burst Existing 15" VCP and Replace with 16" HDPE	204, 205	LF	739	\$	\$
28	Reconnect Existing Sanitary Sewer Laterals (Pipe-Bursting)	204-4	EA	69	\$	\$
29	Sag Repair	205	LF	143	\$	\$
30	SFPUC Water Transmission Line Crossing	207-1	LS	2	\$	\$
31	Pothole and Protect Existing Utilities	207-2	EA	20	\$	\$
32	Install New Sanitary Sewer Manhole	208-2	EA	2	\$	\$
33	Remove and Replace Existing Sanitary Sewer Manhole	208-3	EA	5	\$	\$
34	Remove Existing Flushing Inlet and Replace with New Sanitary Sewer Manhole	208-3	EA	1	\$	\$

Continued on next page

ENCROACHMENT PERMIT

TR-0120 (REV 6/2012)

Permit No. 04-21-N-US-3530

In compliance with (Check one):

- Your application of November 29, 2021
- Utility Notice No. _____ of _____
- Agreement No. _____ of _____
- R/W Contract No. _____ of _____

Dist/Co/Rte/PM 04/SM/84/22.3-22.8

DATE February 14, 2022

Fee Paid \$ Exempt	Deposit \$ Exempt
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Performance Bond Amount \$	Payment Bond Amount \$
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Bond Company	
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Bond Number (1)	Bond Number (2)
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TO:
 County of San Mateo
 555 County Center, 5th Floor
 Redwood City, CA 94063
 Email: alum@smcgov.org
 Attn: Anthony Lum
 Phone: (650) 363-4100
 , PERMITTEE

and subject to the following, **PERMISSION IS HEREBY GRANTED** to:

Replace approximately 2,385 LF of existing 6", 10" & 12" VCP sewer mainline with 6" PVC, 10" and 12" HDPE pipe, on State Highway 04-SM-84, Post Mile 22.3-22.8, in the City of Redwood City.

A minimum of 7 days prior to the start of work under this encroachment permit, notice must be given to State Representative Arvind Sidhu, 111 Grand Avenue, Oakland, CA 94612, at arvind.sidhu@dot.ca.gov or (510) 407-3134, weekdays between 7:00 a.m. and 3:45 p.m., excluding holidays

Notwithstanding General Provision 35, lane closures and other activities that may cause a traffic impact requires the permittee to apply for and obtain a closure ID prior to the start of work. Requests must be submitted using the attached "Encroachment Permit Work Scheduling Request Form".

THIS PERMIT IS NOT A PROPERTY RIGHT AND DOES NOT TRANSFER WITH THE PROPERTY TO A NEW OWNER.

The following attachments are also included as part of this permit (*Check applicable*):

- Yes No General Provisions (TR-0045)
- Yes No Utility Maintenance Provisions (TR-0163)
- Yes No Special Provisions (TR-0157)
- Yes No A Cal-OSHA permit, if required: Permit No. _____
- Yes No As-Built Plans Submittal Route Slip for Locally Advertised Projects
- Yes No Water Pollution Control Documents (SWPPP/WPCP/TR-0400)

In addition to fee, the permittee will be billed actual costs for:

- Yes No Review
- Yes No Inspection
- Yes No Field Work

(If any Caltrans effort expended)

- Yes No The information in the environmental documentation has been reviewed and considered prior to approval of this permit.

This permit is void unless the work is completed before November 30, 2022.

This permit is to be strictly construed and no other work other than specifically mentioned is hereby authorized.

No project work must be commenced until all other necessary permits and environmental clearances have been obtained.

Permit Writer: arvind.sidhu@dot.ca.gov
 cc: State Rep.: arvind.sidhu@dot.ca.gov
 Maint.: earl.sherman@dot.ca.gov
 DTM: gilbert.wu@dot.ca.gov
 TMC: D4TMC/D04/Caltrans/CAGov
 File:

APPROVED:
Amjad Naseer, District Permit Engineer

BY: 
Chris Master, Senior Permit Engineer

ADA Notice

For individuals with sensory disabilities, this document is available in alternate formats. For information call (916) 654-6410 or TDD (916) 654-3880 or write Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

In addition to the 2018 Standard Specifications and Standard Plans (available at <https://dot.ca.gov/programs/design/ccs-standard-plans-and-standard-specifications>), the attached "Encroachment Permit General Provisions" (TR-0045) (available at <https://dot.ca.gov/-/media/dot-media/programs/traffic-operations/documents/encroachment-permits/ep-general-provisions-all1y.pdf>), "Steel Plate Bridging Provisions - For Approach Speeds Less Than 45 MPH" (TR-0157B), "Hazardous Materials and Hazardous Waste Management Special Provisions" (TR-0408), "Encroachment Permit Underground Utility Provisions" (TR-0163), and "Storm Water Special Provisions for Minimal or No Impact (TR-0400)" (available at <https://dot.ca.gov/programs/traffic-operations/ep/ep-manual/>), all work permitted herein must comply with the following provisions:

A pre-job meeting with the State Representative is required at least 7 days prior to the start of any work under this permit. Failure to do so may result in permit revocation with no prejudice.

Notwithstanding General Provision 4, construction must not begin until the contractor performing the work applies for and obtains a separate encroachment permit (referred to as a Double Permit) for the work authorized herein. An initial fee/deposit of \$840.00 is required at the time of application for permit processing and inspection.

The permittee must provide the stage construction plans, traffic handling plans, work schedule, and a list of all sub-contractors to the State Representative at the time of the pre-job meeting.

Additional inspection hours will be charged at the current State hourly rate.

Certain details of work authorized herein are shown on the plans and specifications submitted by the permittee for the proposed project.

Signs, lights, flags or other protective devices must not obscure the visibility of, nor conflict in intent, meaning, and function of either existing signs, lights and traffic control devices, or any construction area signs.

On conventional highways, permittee's vehicles and equipment not involved in the permitted activities must be legally located off the traveled way and not interfere with free traffic and pedestrian flow.

No vehicle or equipment must be stored overnight within the State highway right-of-way. All vehicles and equipment must be removed immediately at the completion of the day's work. Refueling of vehicle or equipment within the State highway right-of-way is strictly prohibited.

Traffic control must comply with the 2018 Caltrans Standard Plans T9 through T14 (available at <https://dot.ca.gov/programs/design/ccs-standard-plans-and-standard-specifications>), and the California MUTCD, Part 6, "Temporary Traffic Control" (available at <https://dot.ca.gov/programs/traffic-operations/camutcd/>).

All traffic control devices must be installed, maintained, and removed by a qualified traffic control contractor.

The State Representative and CHP reserve the right to require reopening the highway at any time as necessary. All cost must be borne by the permittee.

Do not reduce an open traffic lane width to less than 11 feet. If traffic cones or delineators are used for temporary edge delineation, the side of the base of the cones or delineators nearest traffic is considered the edge of traveled way.

Traffic control using flagging, must comply with the California MUTCD, Part 6E, "Flagger Control" (available at <https://dot.ca.gov/programs/traffic-operations/camutcd/>), and Cal/OSHA Construction Safety Orders, Section 1599, "Flaggers", (available at <https://www.dir.ca.gov/title8/1599.html>).

Construction activities must not inconvenience the public or abutting property owners. Maintain access to driveways, houses, and buildings.

Temporary pedestrian facilities must comply with the Caltrans Temporary Pedestrian Facilities Handbook (available at <https://dot.ca.gov/-/media/dot-media/programs/construction/documents/contract-administration/temporary-pedestrian-facilities-handbook-all.pdf>) and the California MUTCD Part 6, Chapter 6D – "Pedestrian and Worker Safety" (available at <http://www.dot.ca.gov/programs/traffic-operations/camutcd>).

Notwithstanding General Provision 13, temporary pedestrian access routes must comply with the 2018 Caltrans Standard Plans T30 through T34 (available at <https://dot.ca.gov/programs/design/ccs-standard-plans-and-standard-specifications>).

Streets and highways in the San Francisco Bay Area contain a significant number of existing underground utilities. This includes traffic signal conduits that are installed 9 inches or less in depth. The permittee is responsible for necessary site investigations for identification of the location and depth of existing underground facilities prior to excavation (e.g., pothole or hand-dig) to avoid damage or disruption in services.

All pavement must be saw cut prior to removal, or removed by grinding.

All signs and markings must comply with the California MUTCD (available at <http://www.dot.ca.gov/programs/traffic-operations/camutcd>)

Where Asphalt Concrete (AC) has been placed, temporary painted traffic striping and pavement markings must be installed within 24 hours. Where shown on the plans, after 30 days curing time, thermoplastic materials must be applied in accordance with the 2018 Caltrans Standard Specifications, Section 84, "Markings" (available at <https://dot.ca.gov/programs/design/ccs-standard-plans-and-standard-specifications>)

Curbs and sidewalks must be saw cut to the nearest score mark and replaced equal in dimension to that removed with score marks matching existing adjacent curb and sidewalk. Pavement must be replaced in kind and must conform to lip of new gutter.

Curbs and gutters must be placed over 6 inches of Class II Aggregate Base. Sidewalks must be a minimum 4 inches PCC placed over 3 inches of Class II Aggregate Base.

A monolithic pour of curb and sidewalk is not permitted.

Trench excavation must comply with the 2018 Caltrans Standard Specifications, Section 19-3, "Structure Excavation and Backfill" (available at <http://www.dot.ca.gov/des/oe/construction-contract-standards.html>).

Trench backfill must comply with the attached trench detail and the 2018 Caltrans Standard Specifications, Section 19.3.02E, "Slurry Cement Backfill", and 19-3.02G, "Controlled Low-Strength Material".

Where the edge of trench is within 2 feet of curb, gutter, or pavement edge, Asphalt Concrete (AC) pavement between the trench and curb, gutter, or pavement edge must be removed and replaced.

Open trenching is authorized one lane at a time with approved traffic control.

No excavation must be left open overnight. Temporary backfilling of excavations in finished surfaces must be capped with a minimum 3 inches Asphalt Concrete (AC).

Changes to the provisions herein require an Encroachment Permit Rider, except for minor changes authorized by the State Representative.

Time extension requests must be made a minimum 2 weeks prior to permit expiration.

The State Representative or CHP may stop work not being performed in compliance with this permit.

Neither materials nor waste must be stockpiled within the State highway right-of-way.

All mud, dirt, and gravel tracked onto the roadway must be immediately removed.

Any damage to State facilities must be repaired to the same state as before the damage and the cost of repairs must be the responsibility of the permittee.

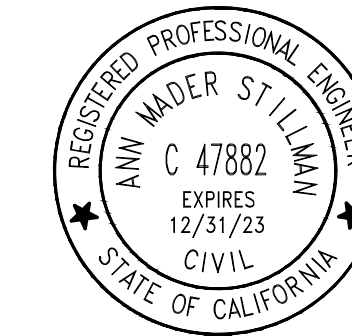
Upon completion of work authorized by this encroachment permit, the permittee must provide the State Representative with three sets of As-Built plans, in accordance with General Provision 22.

Upon completion of work authorized by this encroachment permit, the permittee must provide the State Representative with "Notice of Completion" (TR-0128) (available at <https://dot.ca.gov/-/media/dot-media/programs/traffic-operations/documents/encroachment-permits/tr0128.pdf>).

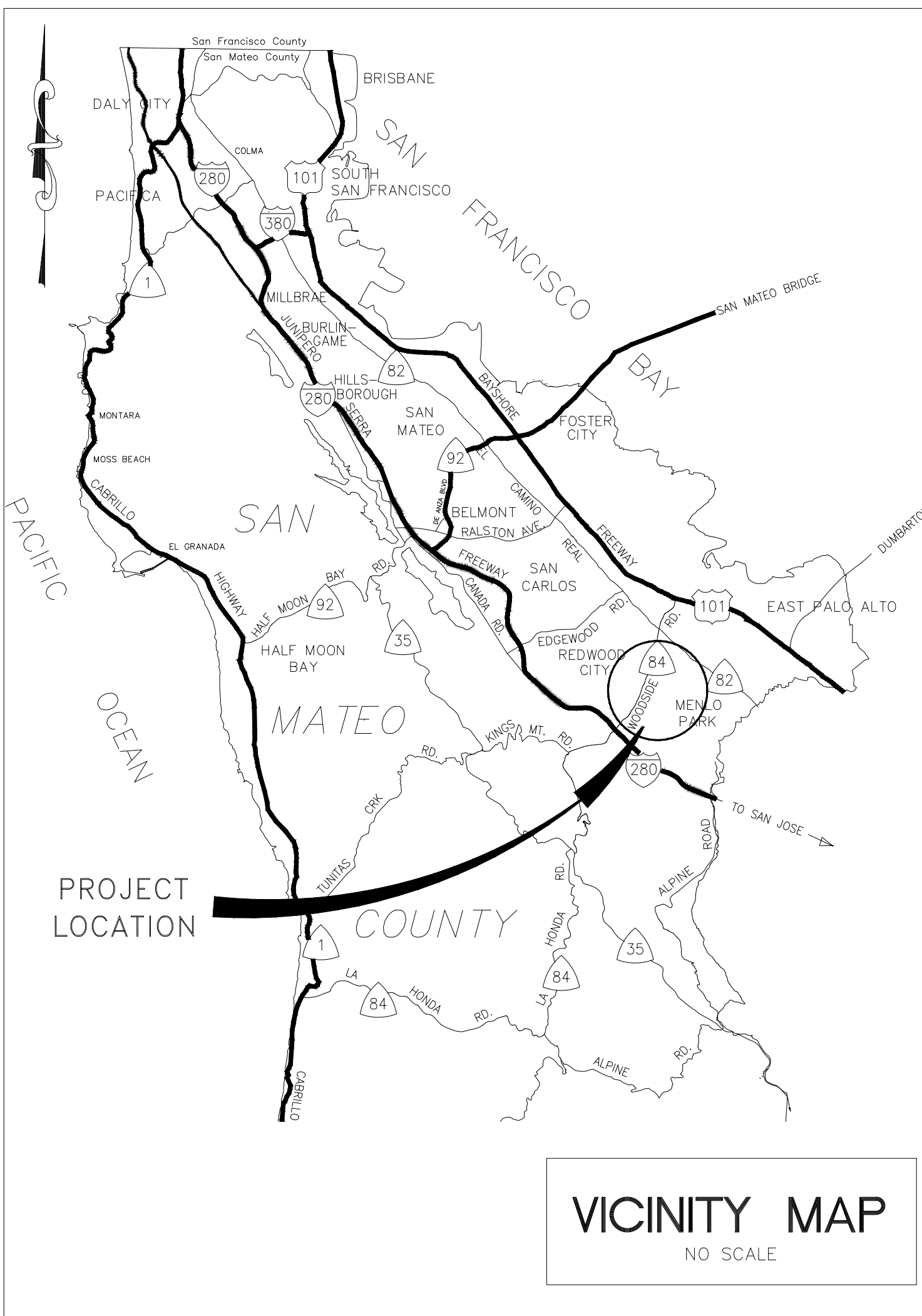
COUNTY OF SAN MATEO CALIFORNIA

SANITARY SEWER REPLACEMENT PROJECT IN THE FAIR OAKS SEWER MAINTENANCE DISTRICT NIMITZ AVENUE, HIMMEL AVENUE, MILTON STREET, SANTA CLARA AVENUE, HULL AVENUE, SANTIAGO AVENUE AND WOODSIDE ROAD TOTAL PROJECT LENGTH: APPROXIMATELY 5,851 LINEAR FEET

TO BE SUPPLEMENTED BY STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS DATED MAY 2018 AND ADOPTED BY SAN MATEO COUNTY, FEBRUARY 11, 2020, BY RESOLUTION NO. 077227



APPROVED:
DATE: 01/28/2022
Ann Mader Stillman
ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023



LEGEND:

— E —	UNDERGROUND ELECTRIC LINE (EX)	SSCO	SANITARY SEWER CLEANOUT
— G —	GAS LINE OR SERVICE (EX)	○	SANITARY SEWER LATERAL NUMBER
— JT —	PG&E JOINT TRENCH (EX)	○	SANITARY SEWER MANHOLE
— SS —	SANITARY SEWER LINE (EX) (TO BE REPLACED)	○	STORM DRAIN MANHOLE
— SS —	SANITARY SEWER LINE (EX) (TO REMAIN)	○	WATER METER MANHOLE
--- SS ---	SANITARY SEWER LATERAL (EX)	BBLBX or BBLBX	BUBBLEUP BOX
— T —	UNDERGROUND TELEPHONE LINE (EX)	○	GAS VALVE
— W —	WATER LINE OR SERVICE (EX)	○	FIRE HYDRANT
— SD —	STORM DRAIN LINE (EX)	○	WATER METER
- X - X - X -	FENCE (EX)	○	WATER VALVE
— — — —	RETAINING WALL (EX)	○	JOINT UTILITY POLE
— — — —	EDGE OF MISCELLANEOUS AC	○	POWER POLE
— - - - -	RIGHT-OF-WAY LINE	○	EXISTING TREE
□	DRIVEWAY (EX)	MB	MAILBOX
		●	BENCHMARK
		●	MONUMENT, INTERSECTION

ABBREVIATIONS:

AB	AGGREGATE BASE, CLASS 2	MIN.	MINIMUM
AC	ASPHALT CONCRETE	NO.	NUMBER
AT&T	AT&T, INC.	OD	OUTER DIAMETER
BBLBX	BUBBLEUP BOX	P/L	PROPERTY LINE
BC	BACK OF GUTTER	PCC	PORTLAND CEMENT CONCRETE
BW	BACK OF WALK COVER	PGE	PACIFIC GAS & ELECTRIC
C	CURB & GUTTER	PLSTC	PLASTIC
C&G	CURB, GUTTER & SIDEWALK	PLSTCPAD	PLASTIC PAD
C,G&SW	CURB, GUTTER & SIDEWALK UTILITY CASE	PP	PROPOSED
CASE	CATCH BASIN	PVC	POLYVINYL CHLORIDE PIPE
CATV	CATCH BASIN CENTERLINE	RCP	REINFORCED CONCRETE PIPE
CB	CORRUGATED METAL PIPE CONCRETE	RT, R	RIGHT
CL	CABLE SPLICE BOX	S	SLOPE
CMP	CENTER	SD	STORM DRAIN
CONC	CONCRETE	SDCB	STORM DRAIN CATCH BASIN
CS	CABLE SPLICE BOX	SDMH	STORM DRAIN MANHOLE
CTR	CENTER	SHT	SHEET
DI	DRAINAGE INLET	SMC	COUNTY OF SAN MATEO
D/W, DWY	DRIVEWAY	SS	SANITARY SEWER
EL, ELEV	ELEVATION	SSCO	SANITARY SEWER CLEANOUT
ELEC	ELECTRICAL	SSMH	SANITARY SEWER MANHOLE
EP	EDGE OF PAVEMENT	STA	STATION
ETW	EDGE OF TRAVELWAY	STD	STANDARD
EX, EXIST	EXISTING	STL	STEEL
FC	FACE OF CURB	TC	TOP OF CURB
FL	FLOWLINE	TG	TOP OF GRATE
GV	GAS VALVE	TSig	TRAFFIC SIGNAL
HDPE	HIGH DENSITY POLYETHYLENE	TYP	TYPICAL
INV	INVERT	VCP	VITRIFIED CLAY PIPE
JP	JOINT POLE	WM	WATER METER
LF	LINEAR FEET	WMMH	WATER METER MANHOLE
LG	LIP OF GUTTER	WV	WATER VALVE
LT, L	LEFT		
MAX.	MAXIMUM		

SHEET INDEX:

- TITLE SHEET AND NOTES
- PLAN AND PROFILE - NIMITZ AVENUE
- PLAN AND PROFILE - HIMMEL AVENUE
- PLAN AND PROFILE - MILTON STREET
- PLAN AND PROFILE - SANTA CLARA AVENUE
- PLAN AND PROFILE - HULL AVENUE
- PLAN AND PROFILE - SANTIAGO AVENUE
- PLAN AND PROFILE - WOODSIDE ROAD
- ROADS TO BE SLURRY SEALED
- MISCELLANEOUS DETAILS
- MISCELLANEOUS DETAILS
- MISCELLANEOUS DETAILS - WOODSIDE ROAD (CALTRANS, REDWOOD CITY & S.F.P.U.C.)

FIELD BOOKS:

- 696-8 SEQUOIA TRACT DRAINAGE
- 696-10 SEQUOIA TRACT
- 2003 SCRATCH BOOK #1

APPLICABLE COUNTY STANDARD PLANS:

- C-1
- C-2
- C-4
- C-5
- C-7
- C-8
- C-11
- C-13
- C-14
- C-15
- A-6H
- D-10

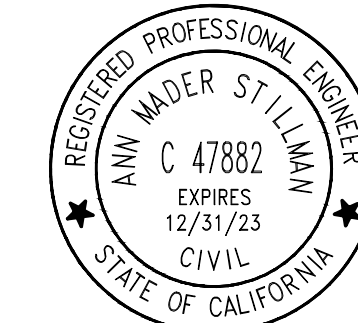
GENERAL NOTES:

- ALL REFERENCES TO "COUNTY" OR "DISTRICT" IN THESE GENERAL NOTES AND THE STANDARD SPECIFICATIONS SHALL MEAN THE COUNTY OF SAN MATEO OR THE FAIR OAKS SEWER MAINTENANCE DISTRICT.
- THE APPROVAL OF THESE PLANS BY THE DISTRICT SHALL BE INTERPRETED TO MEAN THAT THE SANITARY SEWER DESIGN SHOWN ON THESE PLANS MEETS THE DISTRICT'S STANDARDS. THE DISTRICT'S APPROVAL IN NO WAY GUARANTEES ANY OTHER ASPECT OF THIS PLAN OR ITS ACCURACY RELATIVE TO ACTUAL FIELD CONDITIONS.
- ALL SANITARY SEWER WORK CONSTRUCTED WITHOUT INSPECTION BY THE DISTRICT SHALL BE REMOVED AND RECONSTRUCTED WITH INSPECTION.
- THE CONTRACTOR SHALL OBTAIN ANY AND ALL PERMITS REQUIRED BY THE COUNTY, CITY OR STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) BEFORE BEGINNING ANY WORK.
- SANITARY SEWER SERVICE SHALL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL USE WHATEVER MEANS NECESSARY (E.G. PUMPS, ETC.) TO MAINTAIN THIS SERVICE DURING CONSTRUCTION.
- CONTRACTOR SHALL CONFINE HIS OPERATIONS AND ACTIVITIES WITHIN THE PROJECT LIMITS, CONSISTING OF ROAD RIGHT OF WAY AND/OR PROJECT CONFORMS, AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER.
- CONTINUOUS DUST CONTROL SHALL BE PROVIDED, AS DIRECTED BY THE ENGINEER.
- LOCATIONS AND DEPTHS OF EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE UTILITIES TO DETERMINE EXACT LOCATIONS AND DEPTHS. CONTRACTOR SHALL CALL "UNDERGROUND SERVICE ALERT" AT 1-800-642-2444 TWO (2) WORKING DAYS IN ADVANCE OF BEGINNING ANY WORK. WHEN CALLING, BE PREPARED TO GIVE LOCATION AND NATURE OF WORK, START DATE, COMPANY NAME, ADDRESS AND TELEPHONE NUMBER.
- PLANS MAY NOT SHOW ALL EXISTING SANITARY SEWER LATERALS, WATER LINES, GAS LINES AND OTHER UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UTILITIES.
- ANY DAMAGE TO EXISTING FACILITIES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- ALL EXISTING IMPROVEMENTS INCLUDING BUT NOT LIMITED TO LANDSCAPING, FENCES, MAILBOXES, SIGNS, JOINT POLES, GUY WIRES, BENCHES, RETAINING WALLS, DRIVEWAYS, CURB, GUTTER, SIDEWALK, CULVERTS, DRAINS, AND MONUMENTS, SHALL BE PROTECTED OR RESTORED TO THE CONDITION IN WHICH THEY WERE OR BETTER IF REMOVED OR DAMAGED DURING CONSTRUCTION, UNLESS OTHERWISE NOTED IN THE PLANS OR SPECIFICATIONS.
- VEGETATION AND IMPROVEMENTS (INCLUDING FENCES) WHICH ARE DESIGNATED TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR, UNLESS OTHERWISE STATED BY THE ENGINEER. VEGETATION AND IMPROVEMENTS (INCLUDING FENCES) SHALL BE REMOVED ONLY WHEN DIRECTED IN WRITING BY THE ENGINEER. NO TREES, VEGETATION OR IMPROVEMENTS (INCLUDING FENCES) SHALL BE REMOVED WITHOUT PRIOR WRITTEN CONSENT AND APPROVAL OF THE ENGINEER. REFER TO SECTION 11, "MOBILIZATION," OF THE PROJECT SPECIAL PROVISIONS REGARDING REQUIREMENTS FOR ADVANCE NOTIFICATION OF PROPERTY OWNERS.
- PROJECT SURVEY AND STAKING SERVICES WILL BE DONE BY THE CONTRACTOR.
- STAGING AREAS FOR EQUIPMENT AND MATERIALS STORAGE SHALL BE LIMITED TO LOCATIONS WHERE THE CONTRACTOR HAS OBTAINED PERMISSION FROM THE ADJACENT PROPERTY OWNER, CALTRANS, CITY, TOWN OR COUNTY.
- NOTES STIPULATED ON THE PLAN SHEETS ARE SPECIFIC TO THOSE PLAN SHEETS.

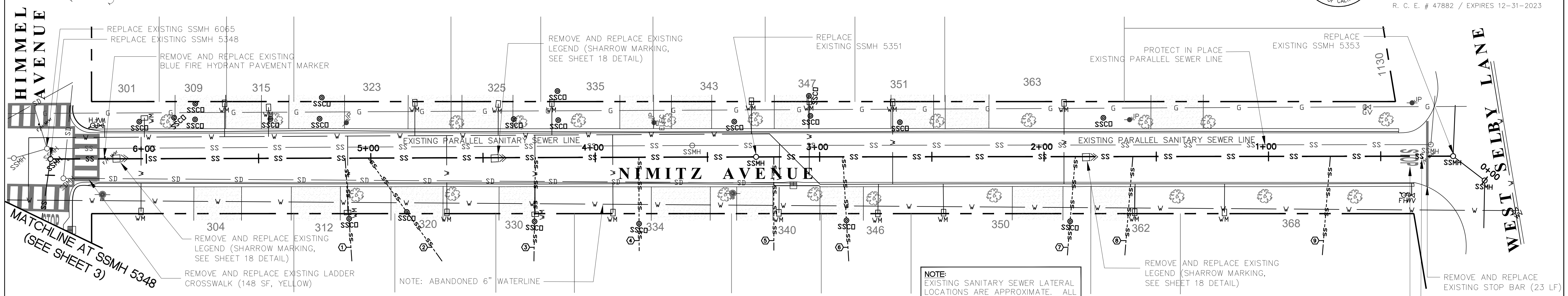


REV. Δ	DESIGNED BY: MM	SANITARY SEWER REPLACEMENT PROJECT IN THE FAIR OAKS SEWER MAINTENANCE DISTRICT TITLE SHEET AND NOTES		SCALE: AS SHOWN
	CHECKED BY: AL/KL			DATE: 01/28/2022
	DRAWN BY: EPC/KL			FILE NO.: 1/4692
REVISION	DATE	ANN MADER STILLMAN, INTERIM DIRECTOR OF PUBLIC WORKS COUNTY OF SAN MATEO		555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES			0 1 2 3 4	1 SHEET 1 OF 18

FILENAME: H:\DESIGN\LD\4692000\DWG\2020\4692001.DWG (LAYOUT)



APPROVED: _____
 DATE: 01/28/2022
 ANN MADER STILLMAN,
 INTERIM DIRECTOR OF PUBLIC WORKS
 R. C. E. # 47882 / EXPIRES 12-31-2023

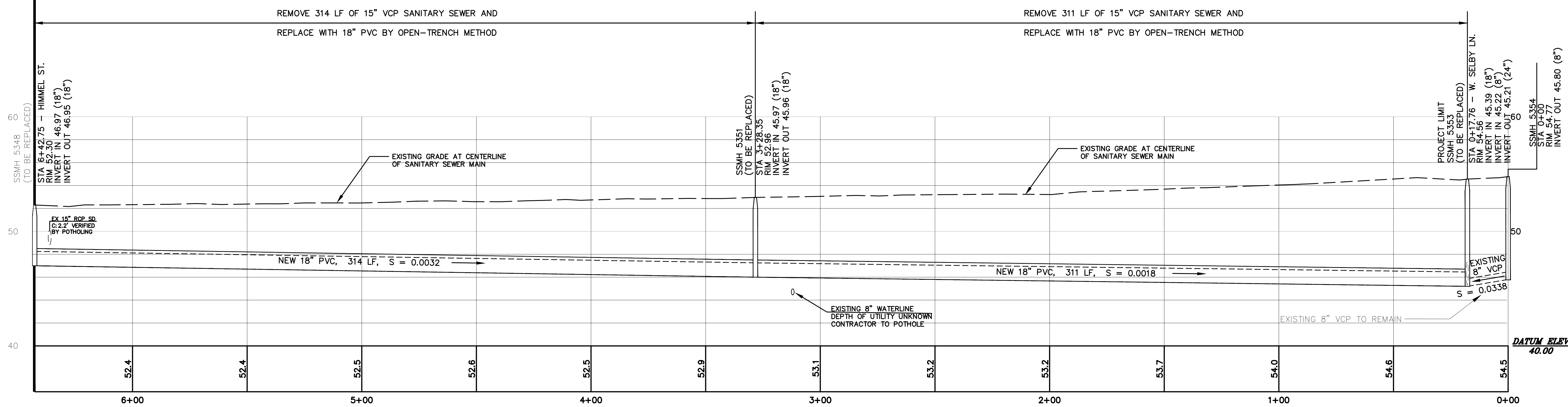


PLAN (NIMITZ)

SCALE: 1" = 20'

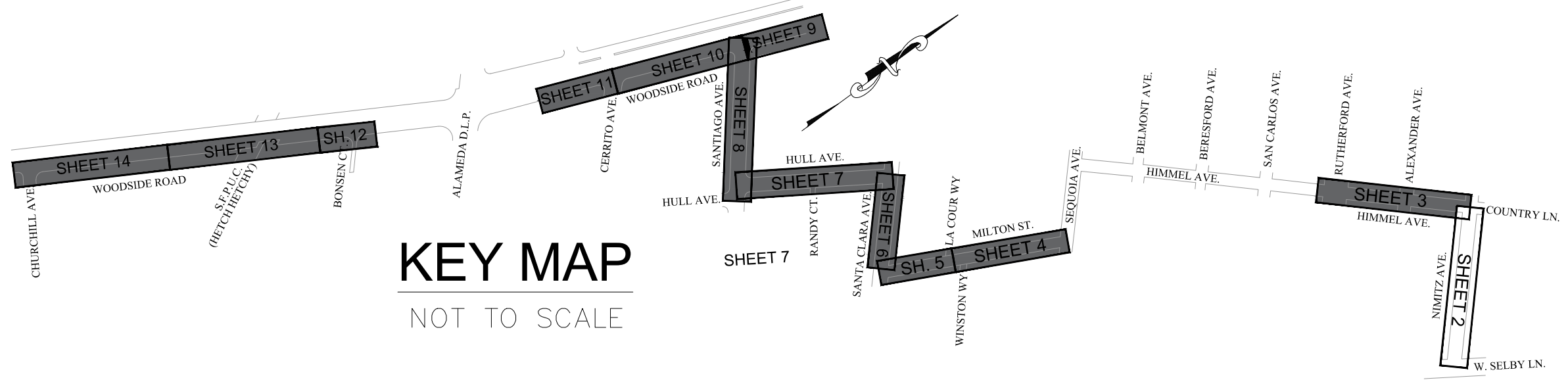
NOTE:
 EXISTING SANITARY SEWER LATERAL LOCATIONS ARE APPROXIMATE. ALL SANITARY SEWER LATERALS SHALL BE LOCATED PRIOR TO PERFORMING ANY SANITARY SEWER MAIN WORK.

MATCHLINE AT SSMH 5348
 (SEE SHEET 3)



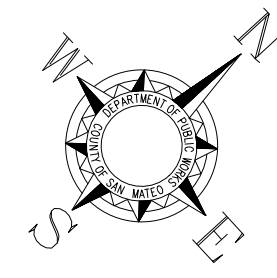
PROFILE (NIMITZ)

SCALE: HORIZONTAL: 1" = 20'
 VERTICAL: 1" = 4'

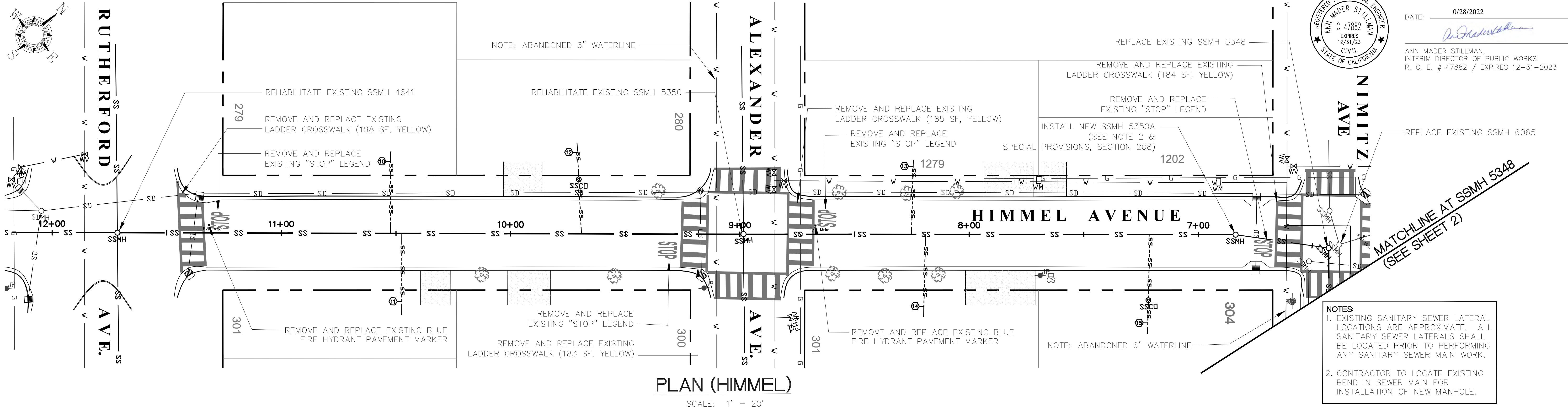


REV. Δ	DESIGNED BY: MM	SANITARY SEWER REPLACEMENT PROJECT IN THE FAIR OAKS SEWER MAINTENANCE DISTRICT		SCALE: AS SHOWN
	CHECKED BY: AL/KL	PLAN AND PROFILE (NIMITZ)		DATE: 01/28/2022
	DRAWN BY: EPC	ANN MADER STILLMAN, INTERIM DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY		FILE NO.: 1/4692
REVISION	DATE	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063		SHEET 2 OF 18
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES				2

FILENAME: N:\DESIGN\LD\16469200\DWG\2020_164692002.DWG (LAYOUT1)

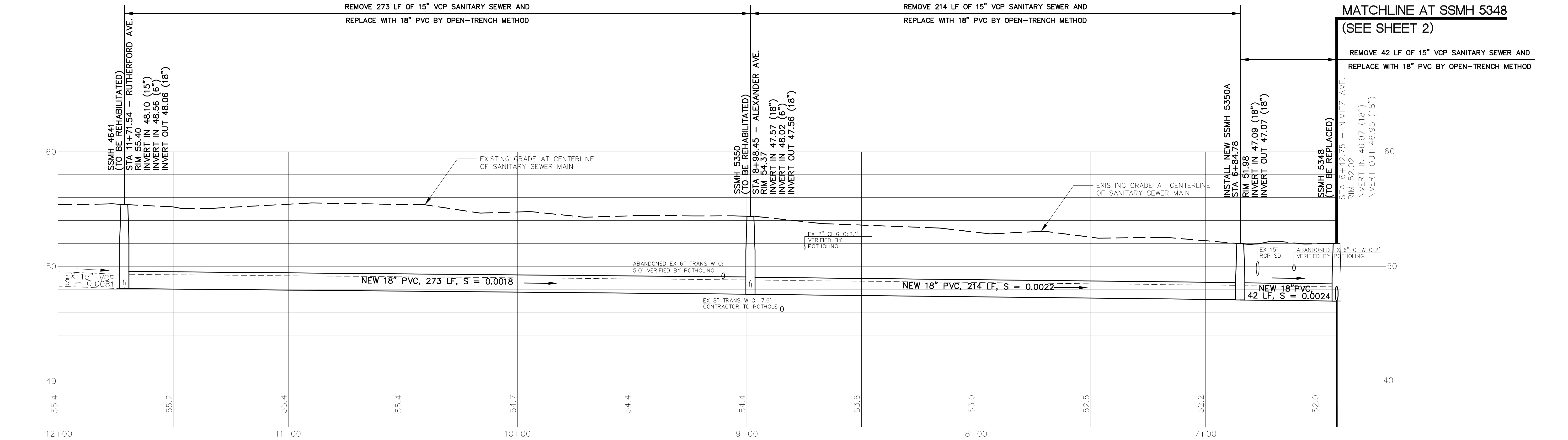


APPROVED: _____
 DATE: 01/28/2022
 ANN MADER STILLMAN,
 INTERIM DIRECTOR OF PUBLIC WORKS
 R. C. E. # 47882 / EXPIRES 12-31-2023

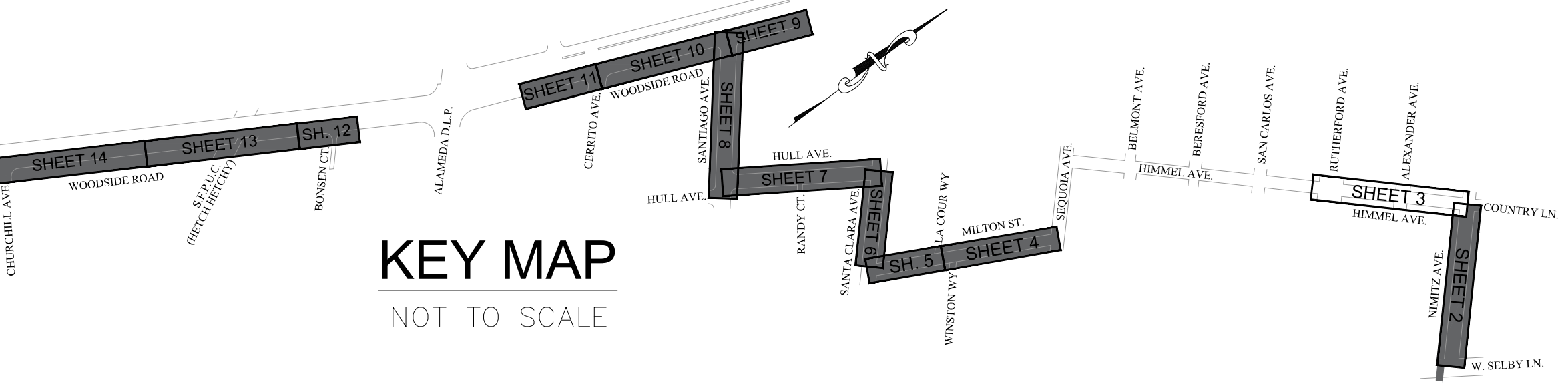


NOTES:
 1. EXISTING SANITARY SEWER LATERAL LOCATIONS ARE APPROXIMATE. ALL SANITARY SEWER LATERALS SHALL BE LOCATED PRIOR TO PERFORMING ANY SANITARY SEWER MAIN WORK.
 2. CONTRACTOR TO LOCATE EXISTING BEND IN SEWER MAIN FOR INSTALLATION OF NEW MANHOLE.

PLAN (HIMMEL)
 SCALE: 1" = 20'



PROFILE (HIMMEL)
 SCALE: HORIZONTAL: 1" = 20'
 VERTICAL: 1" = 4'

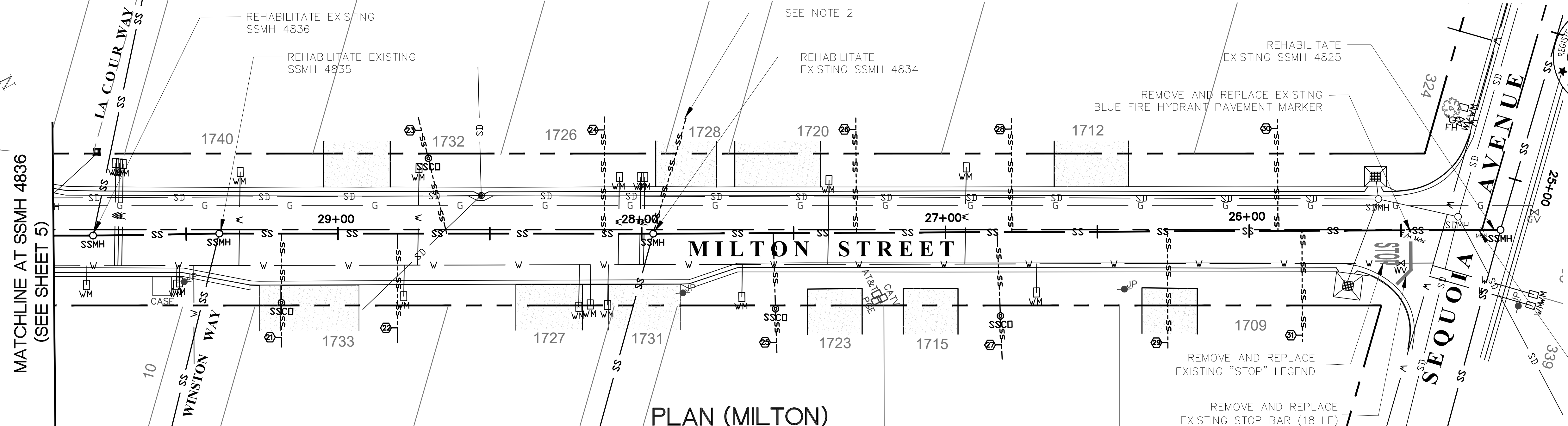
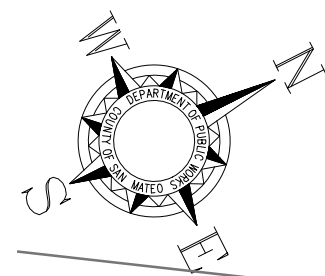


KEY MAP
 NOT TO SCALE



REV. Δ	DESIGNED BY: MM	SANITARY SEWER REPLACEMENT PROJECT IN THE FAIR OAKS SEWER MAINTENANCE DISTRICT PLAN AND PROFILE (HIMMEL)		SCALE: AS SHOWN
	CHECKED BY: AL/KL			DATE: 01/28/2022
	DRAWN BY: EPC			FILE NO.: 1/4692
REVISION	DATE	ANN MADER STILLMAN, INTERIM DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY		555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES				3
				SHEET 3 OF 18

FILENAME: N:\DESIGN\LD\16492000.DWG\2020\16492003.DWG (LAYOUT1)



PLAN (MILTON)

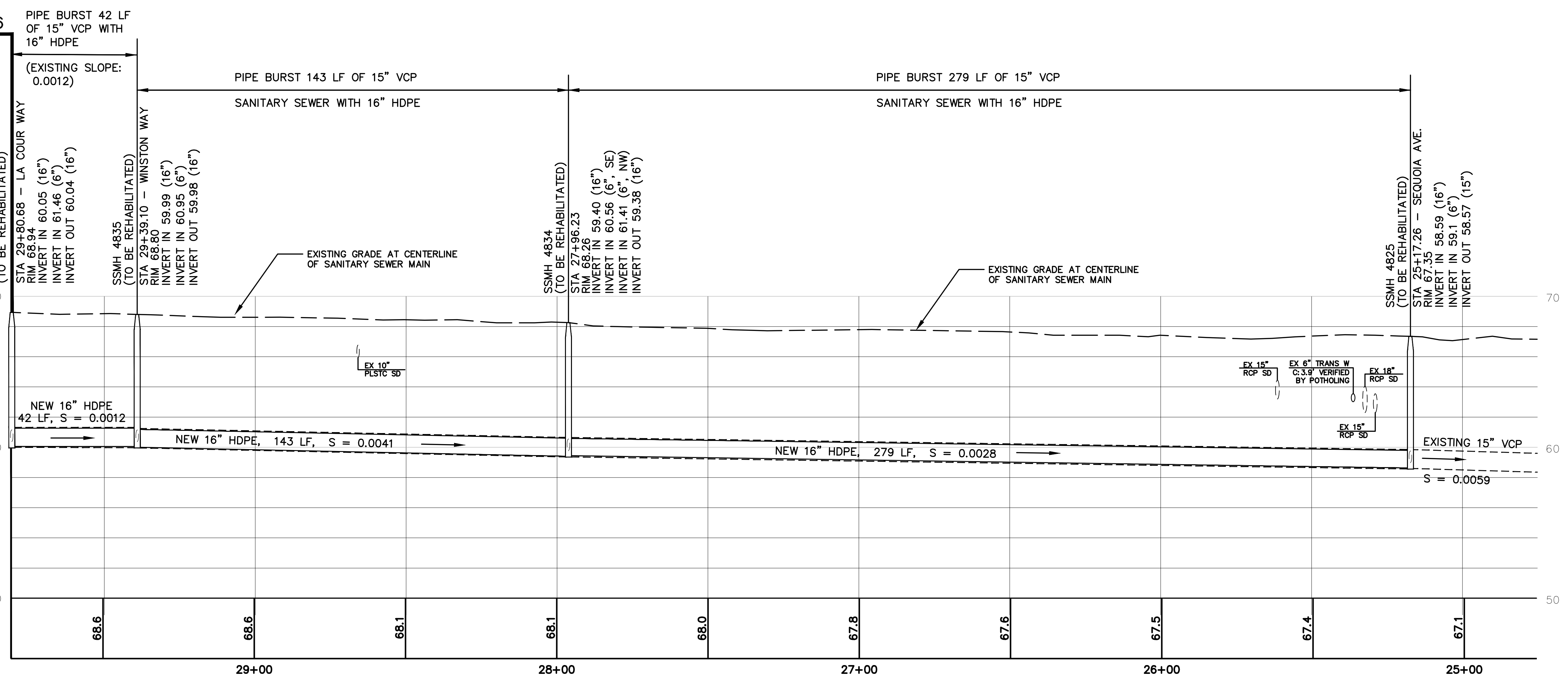
SCALE: 1" = 20'



APPROVED:
 DATE: 01/28/2022
 ANN MADER STILLMAN,
 INTERIM DIRECTOR OF PUBLIC WORKS
 R. C. E. # 47882 / EXPIRES 12-31-2023

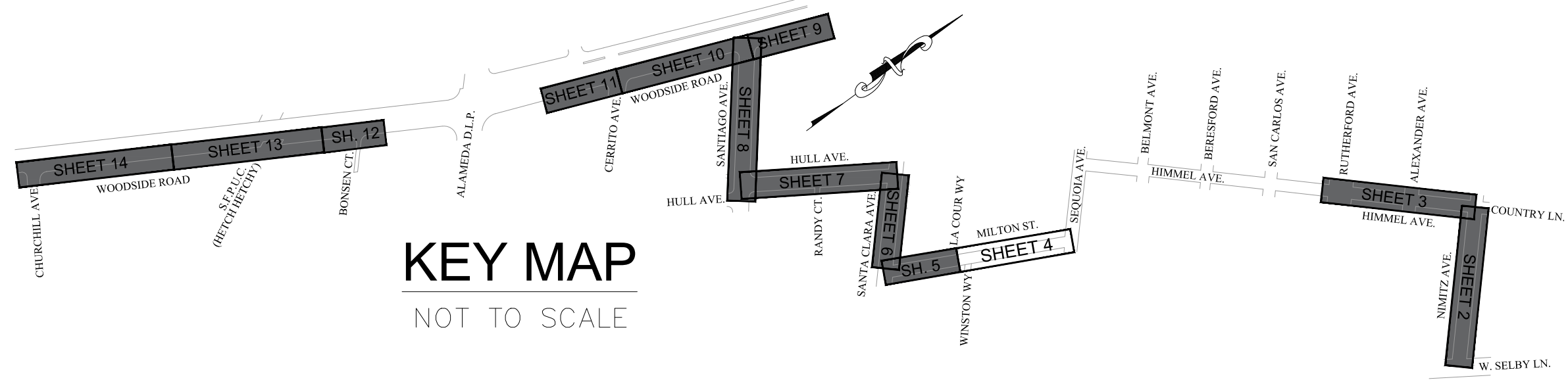
- NOTES:
- EXISTING SANITARY SEWER LATERAL LOCATIONS ARE APPROXIMATE. ALL SANITARY SEWER LATERALS SHALL BE LOCATED PRIOR TO PERFORMING ANY SANITARY SEWER MAIN WORK.
 - EXISTING SANITARY SEWER LATERAL FOR 1728 MILTON AVE. CONNECTS TO MANHOLE SSMH 4834 AND IS UNAFFECTED BY PIPE REPLACEMENT OPERATIONS.

MATCHLINE AT SSMH 4836
 (SEE SHEET 5)



PROFILE (MILTON)

SCALE: HORIZONTAL: 1" = 20'
 VERTICAL: 1" = 4'

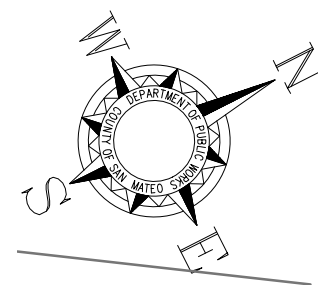


KEY MAP
 NOT TO SCALE

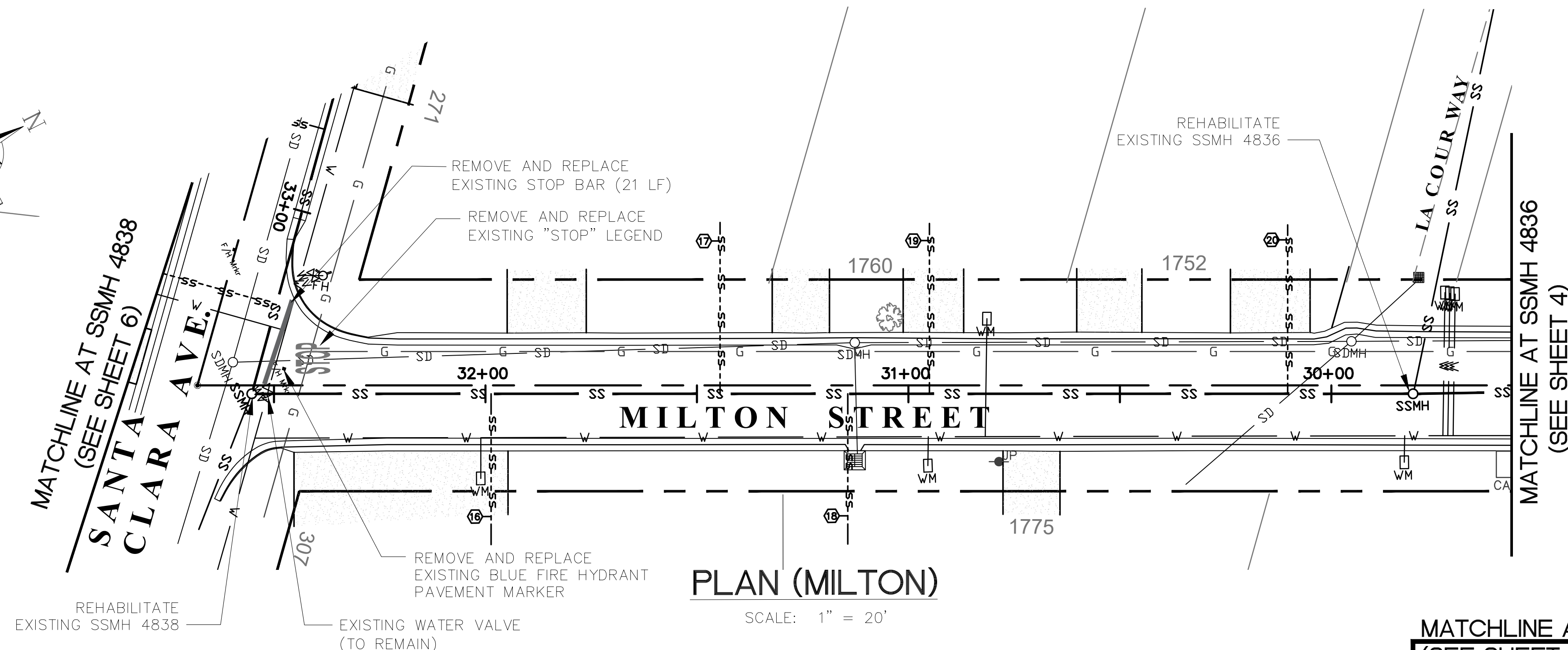


REV. Δ	DESIGNED BY: MM	SANITARY SEWER REPLACEMENT PROJECT IN THE FAIR OAKS SEWER MAINTENANCE DISTRICT		SCALE: AS SHOWN
	CHECKED BY: AL/KL	PLAN AND PROFILE (MILTON)		DATE: 01/28/2022
	DRAWN BY: EPC			FILE NO.: 1/4692
REVISION	DATE	ANN MADER STILLMAN, INTERIM DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY		555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES		0 1 2 3 4		4 SHEET 4 OF 18

FILENAME: N:\DESIGN\LD\4692004\DWG\2020\4692004.DWG (LAYOUT1)

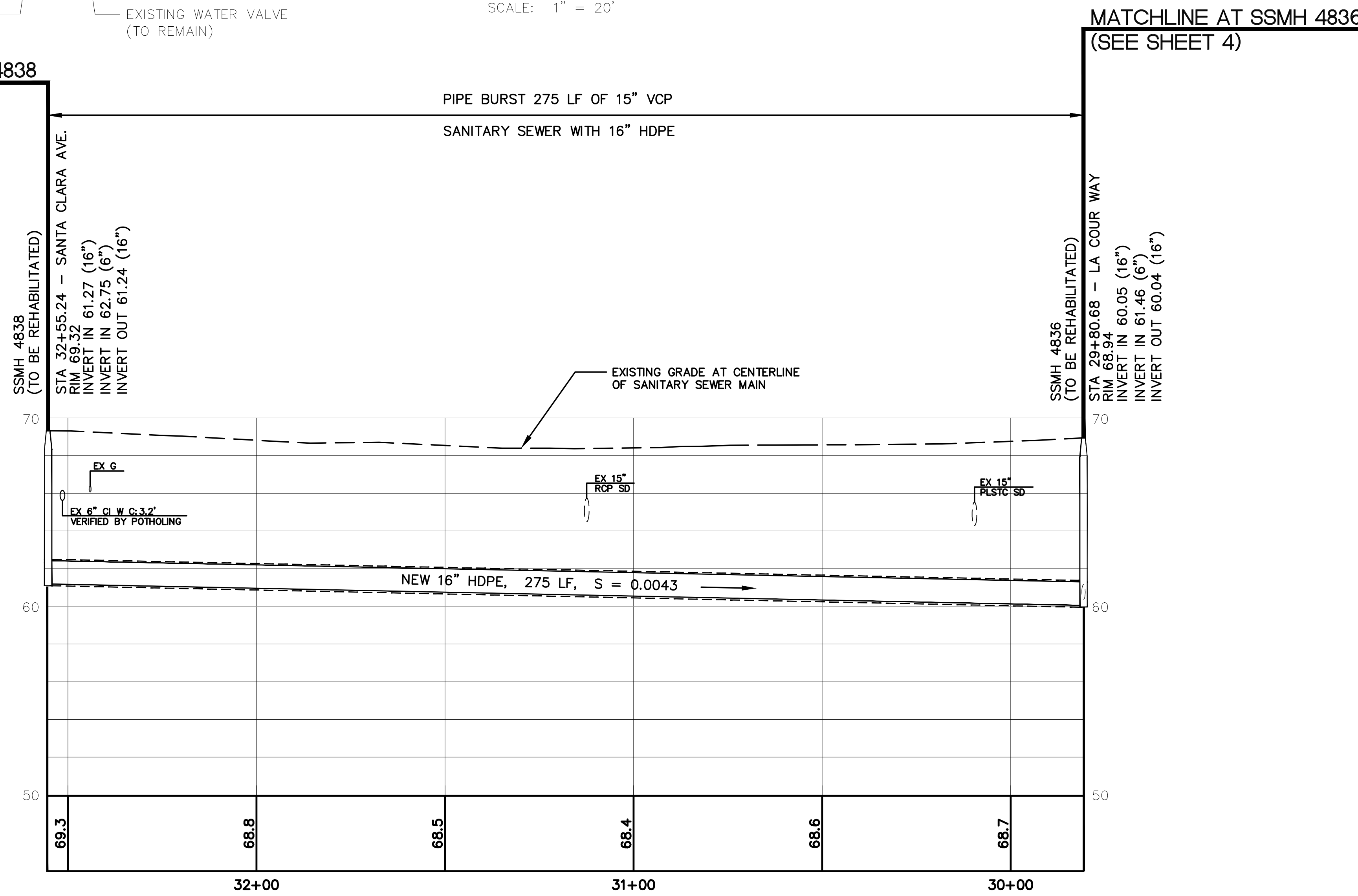


APPROVED:
 DATE: 01/28/2022
 ANN MADER STILLMAN,
 INTERIM DIRECTOR OF PUBLIC WORKS
 R. C. E. # 47882 / EXPIRES 12-31-2023

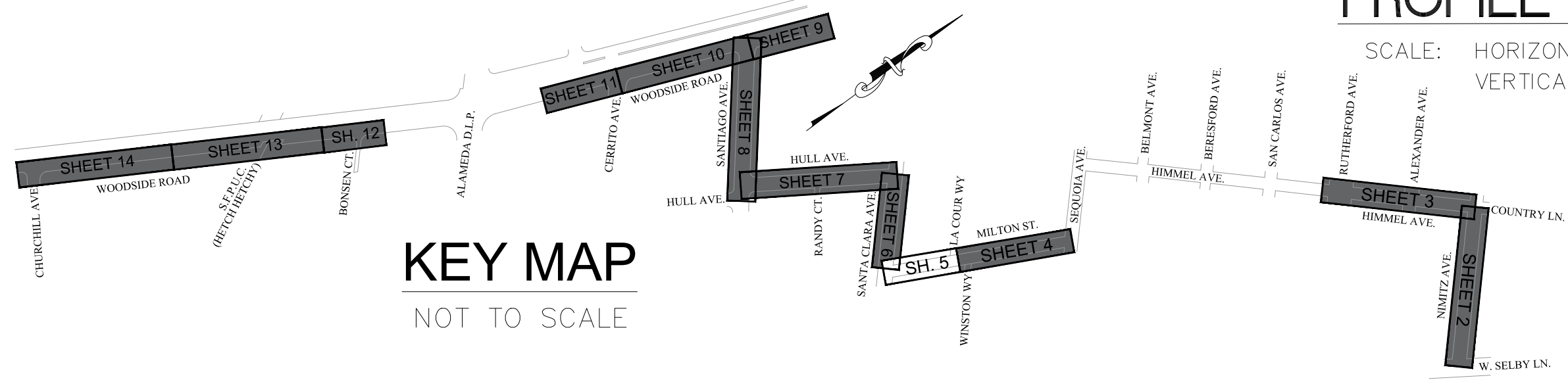


NOTE:
 EXISTING SANITARY SEWER LATERAL LOCATIONS ARE APPROXIMATE. ALL SANITARY SEWER LATERALS SHALL BE LOCATED PRIOR TO PERFORMING ANY SANITARY SEWER MAIN WORK.

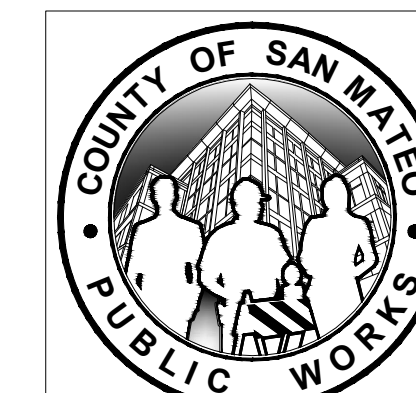
MATCHLINE AT SSMH 4838
 (SEE SHEET 6)



PROFILE (MILTON)
 SCALE: HORIZONTAL: 1" = 20'
 VERTICAL: 1" = 4'



KEY MAP
 NOT TO SCALE

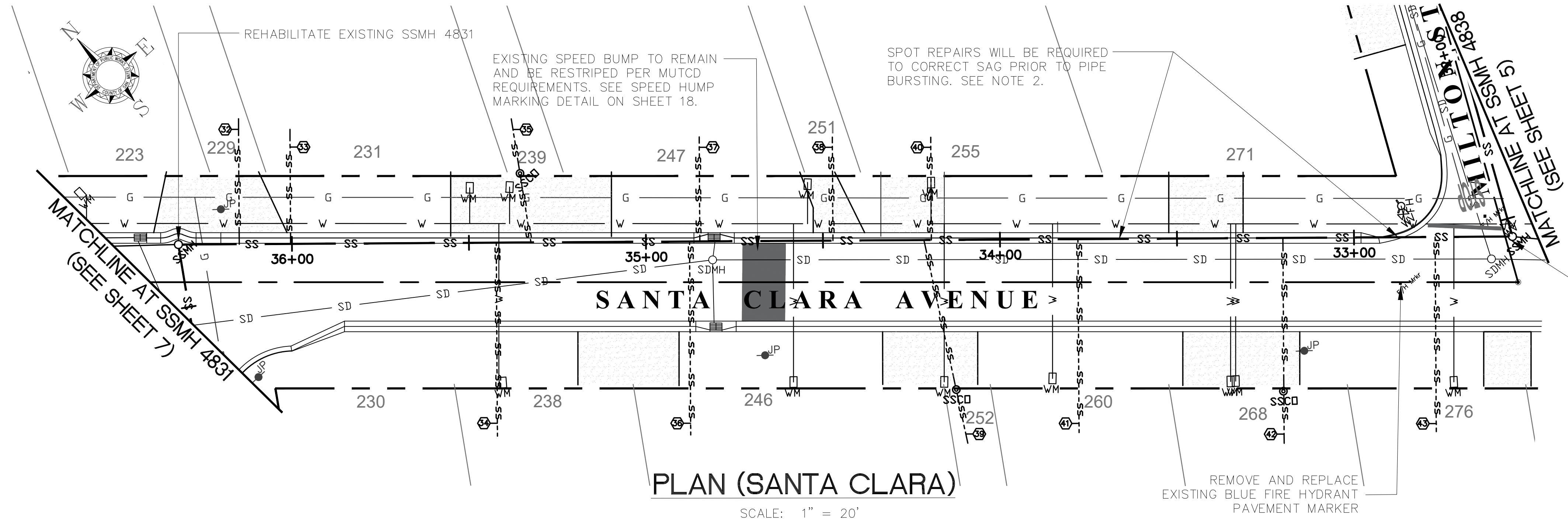


REV. Δ	DESIGNED BY: MM	SANITARY SEWER REPLACEMENT PROJECT IN THE FAIR OAKS SEWER MAINTENANCE DISTRICT		SCALE: AS SHOWN
	CHECKED BY: AL/KL	PLAN AND PROFILE (MILTON)		DATE: 01/28/2022
	DRAWN BY: EPC			FILE NO.: 1/4692
REVISION	DATE	ANN MADER STILLMAN, INTERIM DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063	
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES				5 SHEET 5 OF 18

FILENAME: N:\DESIGN\DD\4692000\DWG\2020\4692005.DWG (LAYOUT1)



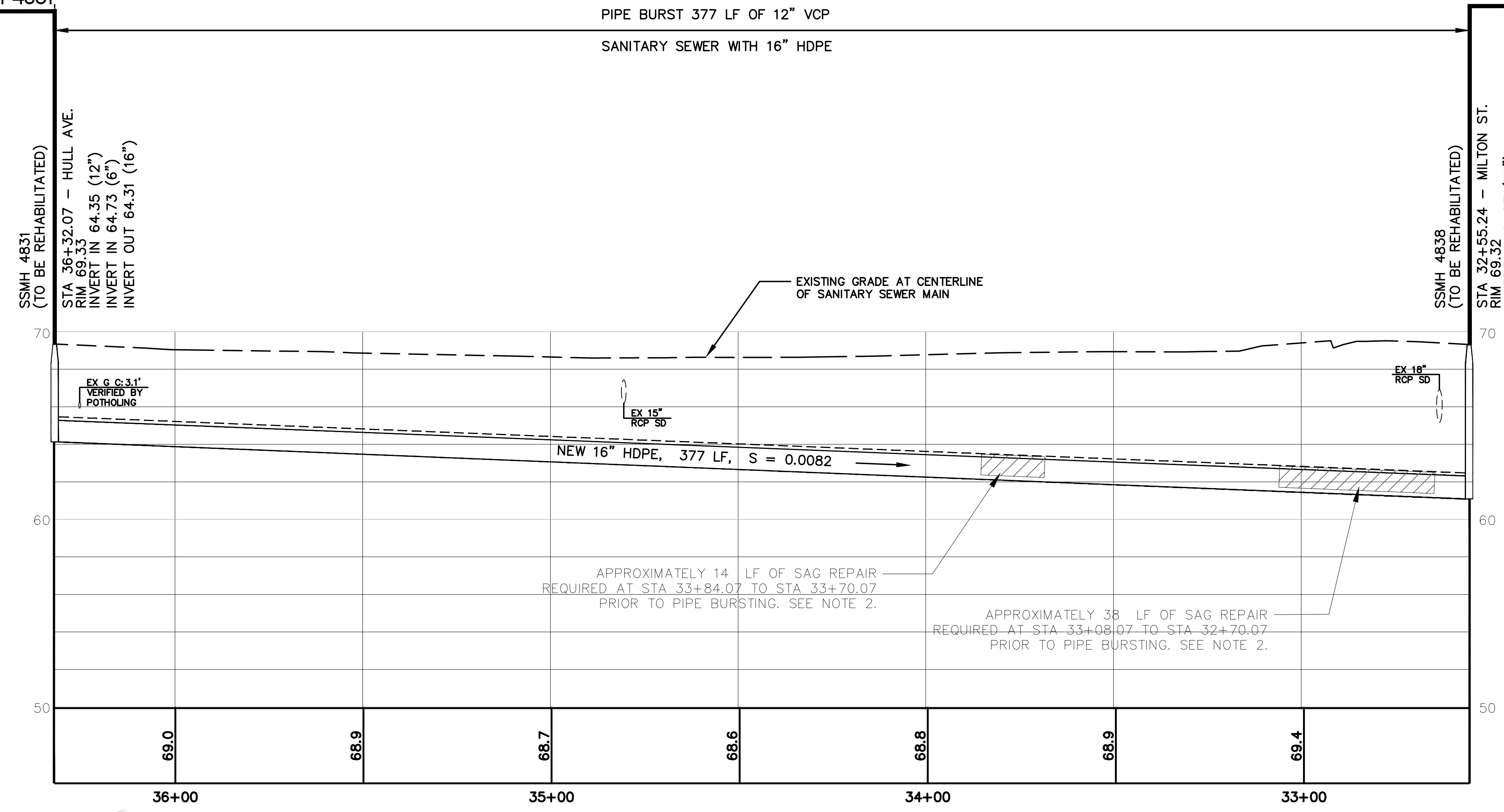
APPROVED:
 DATE: 01/28/2022
 ANN MADER STILLMAN,
 INTERIM DIRECTOR OF PUBLIC WORKS
 R. C. E. # 47882 / EXPIRES 12-31-2023



- NOTES:**
- EXISTING SANITARY SEWER LATERAL LOCATIONS ARE APPROXIMATE. ALL SANITARY SEWER LATERALS SHALL BE LOCATED PRIOR TO PERFORMING ANY SANITARY SEWER MAIN WORK.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXACT LOCATIONS AND LENGTHS OF EACH PRE-EXISTING SAG THROUGH THEIR OWN PRECONSTRUCTION VIDEO INSPECTION.

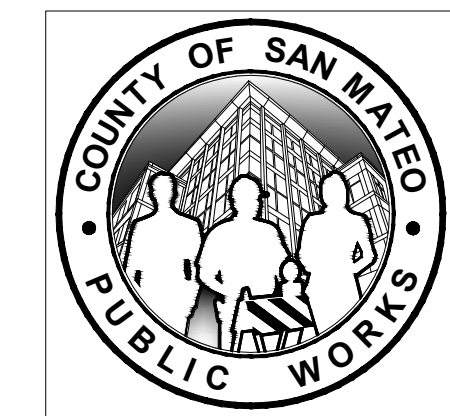
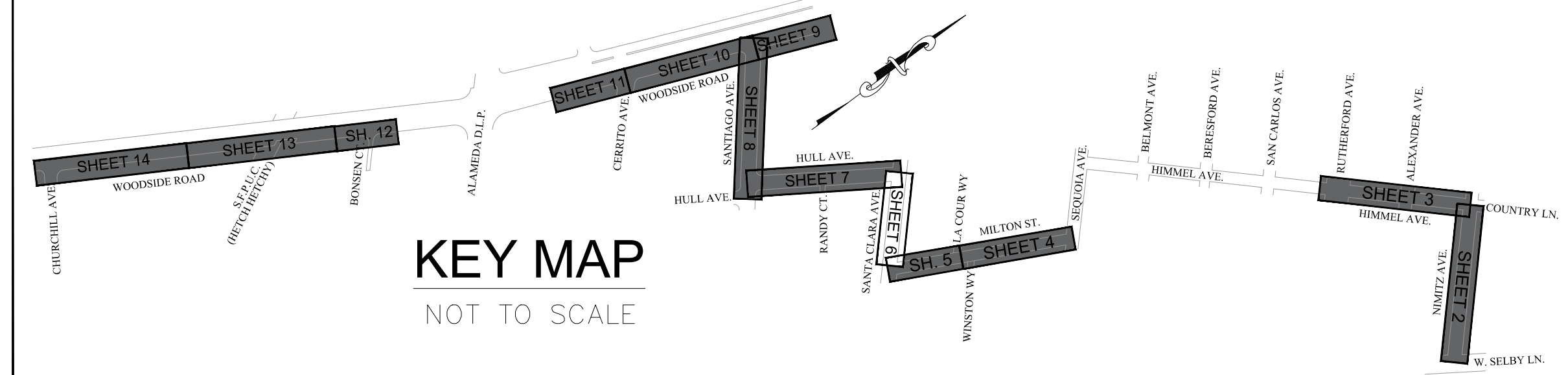
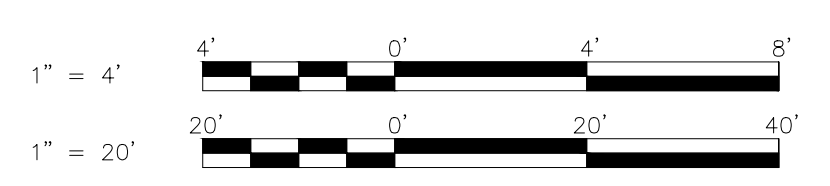
MATCHLINE AT SSMH 4831
(SEE SHEET 7)

MATCHLINE AT SSMH 4838
(SEE SHEET 5)



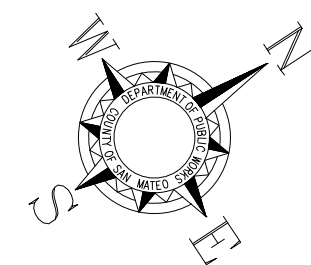
PROFILE (SANTA CLARA)

SCALE: HORIZONTAL: 1" = 20'
 VERTICAL: 1" = 4'



DESIGNED BY: MM	SANITARY SEWER REPLACEMENT PROJECT IN THE FAIR OAKS SEWER MAINTENANCE DISTRICT		SCALE: AS SHOWN
CHECKED BY: AL/KL	PLAN AND PROFILE (SANTA CLARA)		DATE: 01/28/2022
DRAWN BY: EPC	ANN MADER STILLMAN, INTERIM DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY		FILE NO.: 1/4692
REVISION	DATE	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063	6
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES			SHEET 6 OF 18

FILENAME: N:\DESIGN\LD\16692000\DWG_2022\16692006.DWG (LAYOUT)



APPROVED: *Ann Mader Stillman*
 DATE: 01/28/2022
 ANN MADER STILLMAN,
 INTERIM DIRECTOR OF PUBLIC WORKS
 R.J.C. E. 47882 / EXPIRES 12-31-2023

MATCHLINE AT SSMH 4858
 (SEE SHEET 8)

REMOVE AND REPLACE
 EXISTING "STOP" LEGEND

REMOVE AND REPLACE
 EXISTING BLUE FIRE HYDRANT
 PAVEMENT MARKER

REHABILITATE EXISTING SSMH 4816

SPOT REPAIR WILL BE REQUIRED TO
 CORRECT SAG PRIOR TO PIPE BURSTING.
 SEE NOTE 2.

REHABILITATE EXISTING
 SSMH 4831

REMOVE AND REPLACE
 EXISTING "STOP" LEGEND

REMOVE AND REPLACE
 EXISTING STOP BAR (20 LF)

REMOVE AND REPLACE
 EXISTING BLUE FIRE HYDRANT
 PAVEMENT MARKER

REMOVE AND REPLACE
 EXISTING STOP BAR (18 LF)

REHABILITATE
 EXISTING SSMH 4858

SPOT REPAIR WILL BE REQUIRED TO
 CORRECT SAG PRIOR TO PIPE BURSTING.
 SEE NOTE 2.

SANTIAGO
 AVENUE

HULL AVENUE

SANTA
 CLARA
 AVE.

MATCHLINE AT SSMH 4831
 (SEE SHEET 6)

NOTES:

- EXISTING SANITARY SEWER LATERAL LOCATIONS ARE APPROXIMATE. ALL SANITARY SEWER LATERALS SHALL BE LOCATED PRIOR TO PERFORMING ANY SANITARY SEWER MAIN WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXACT LOCATIONS AND LENGTHS OF EACH PRE-EXISTING SAG THROUGH THEIR OWN PRECONSTRUCTION VIDEO INSPECTION.

PLAN (HULL)
 SCALE: 1" = 20'

MATCHLINE AT SSMH 4858
 (SEE SHEET 8)

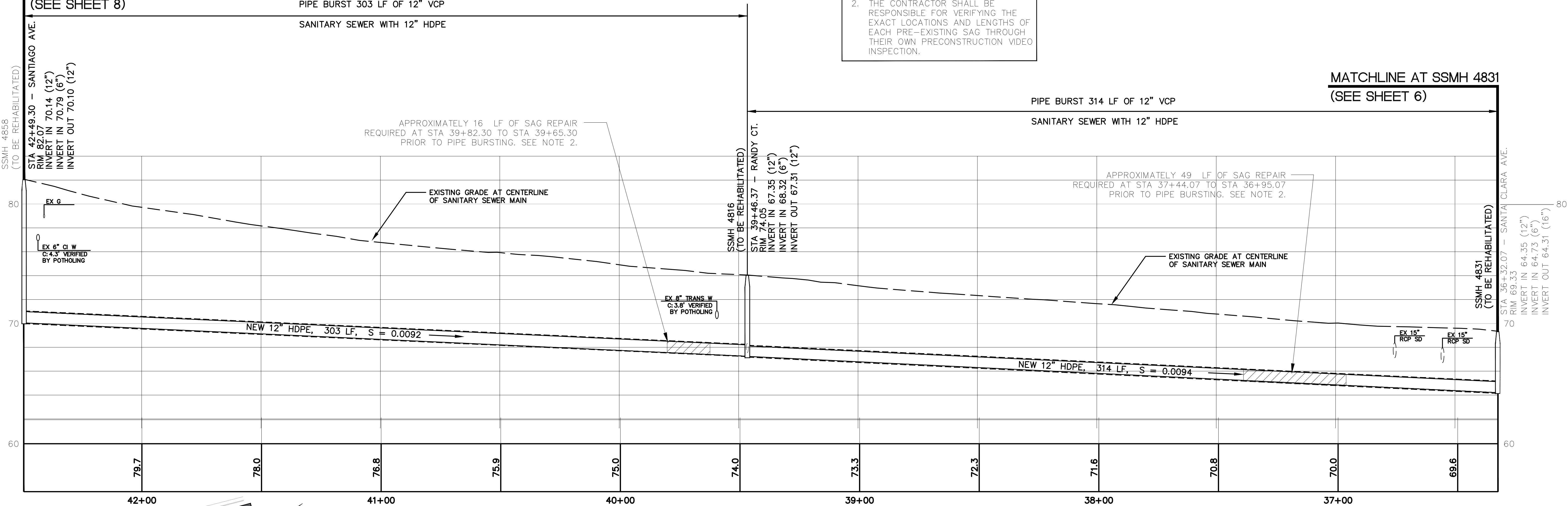
PIPE BURST 303 LF OF 12" VCP
 SANITARY SEWER WITH 12" HDPE

MATCHLINE AT SSMH 4831
 (SEE SHEET 6)

PIPE BURST 314 LF OF 12" VCP
 SANITARY SEWER WITH 12" HDPE

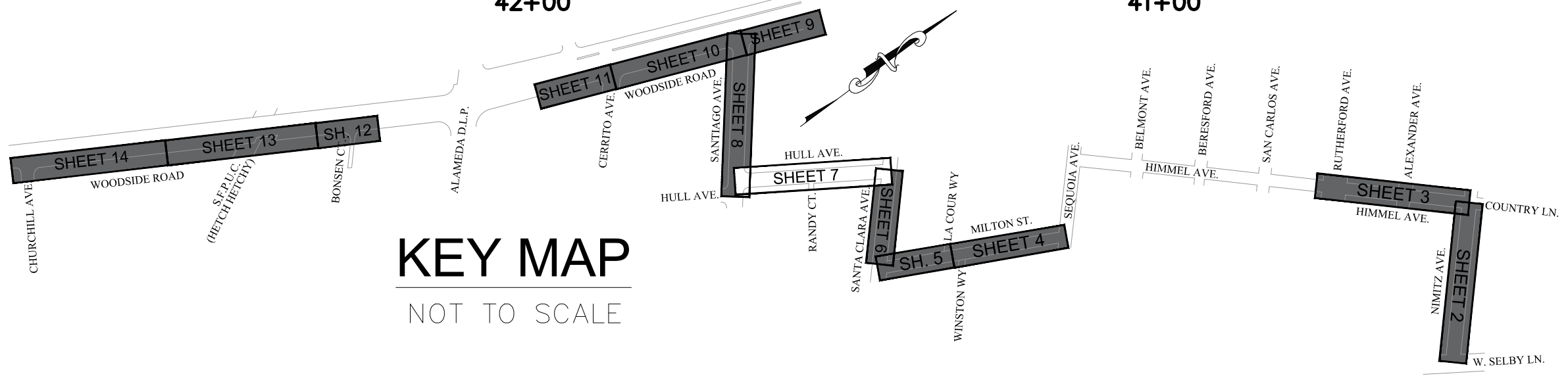
APPROXIMATELY 16 LF OF SAG REPAIR
 REQUIRED AT STA 39+82.30 TO STA 39+65.30
 PRIOR TO PIPE BURSTING. SEE NOTE 2.

APPROXIMATELY 49 LF OF SAG REPAIR
 REQUIRED AT STA 37+44.07 TO STA 36+95.07
 PRIOR TO PIPE BURSTING. SEE NOTE 2.



PROFILE (HULL)
 SCALE: HORIZONTAL: 1" = 20'
 VERTICAL: 1" = 4'

KEY MAP
 NOT TO SCALE

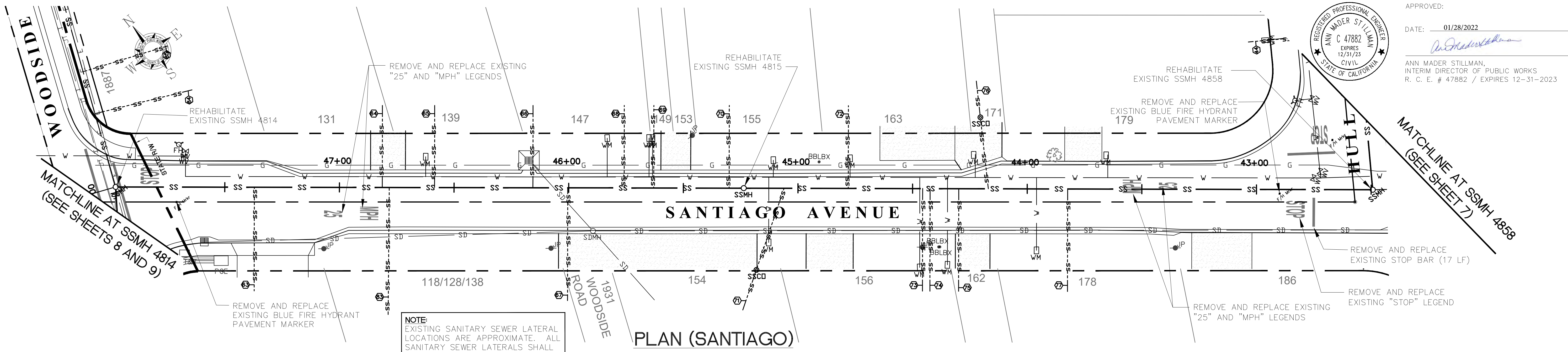


REV. Δ	DESIGNED BY: MM	SANITARY SEWER REPLACEMENT PROJECT IN THE FAIR OAKS SEWER MAINTENANCE DISTRICT		SCALE: AS SHOWN
	CHECKED BY: AL/KL	PLAN AND PROFILE (HULL)		DATE: 01/28/2022
	DRAWN BY: EPC			FILE NO.: 1/4692
REVISION	DATE	ANN MADER STILLMAN, INTERIM DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063	
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES				7 SHEET 7 OF 18

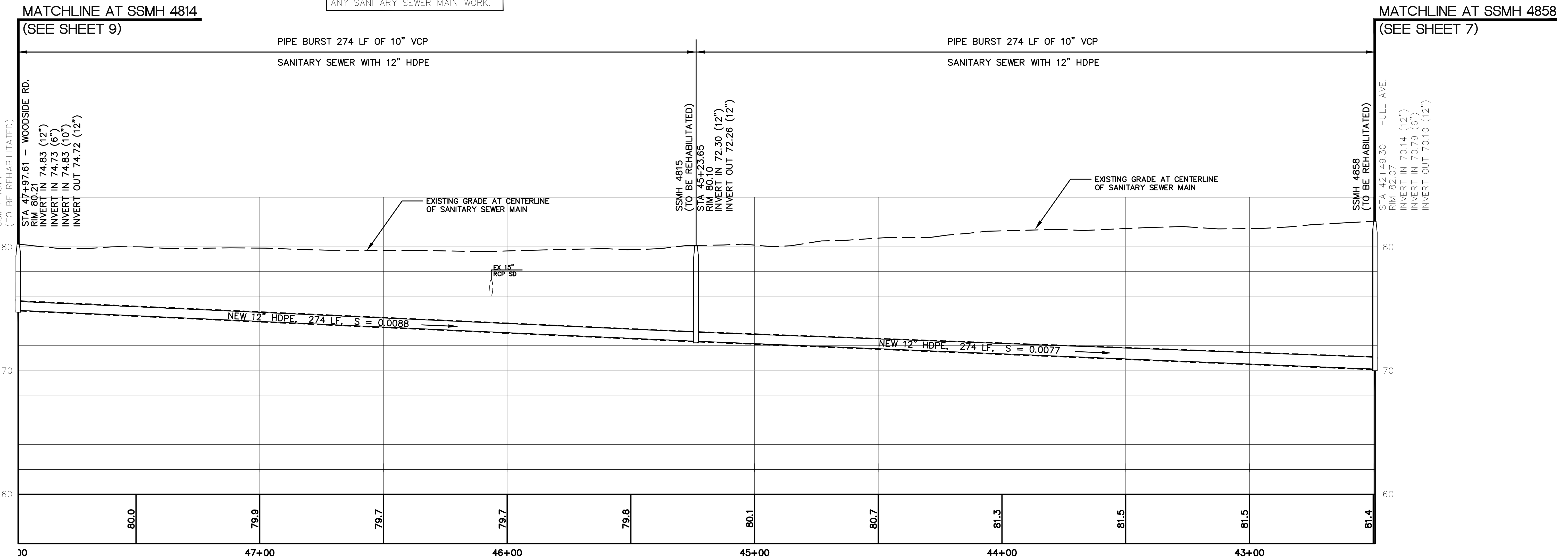
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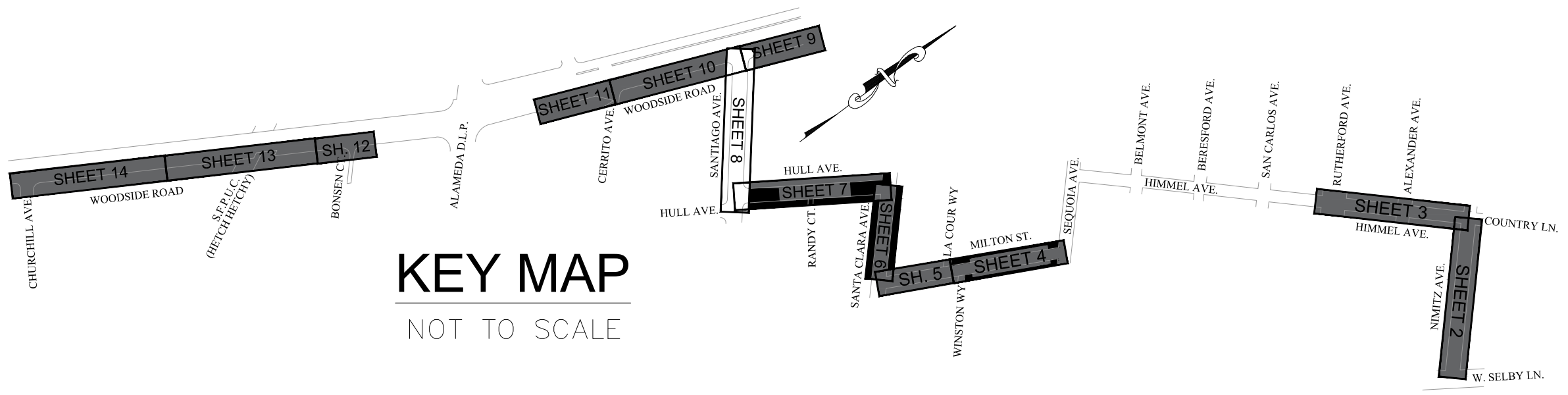
APPROVED: _____
 DATE: 01/28/2022
 ANN MADER STILLMAN
 INTERIM DIRECTOR OF PUBLIC WORKS
 R. C. E. # 47882 / EXPIRES 12-31-2023



PLAN (SANTIAGO)
 SCALE: 1" = 20'



PROFILE (SANTIAGO)
 SCALE: HORIZONTAL: 1" = 20'
 VERTICAL: 1" = 4'



KEY MAP
 NOT TO SCALE

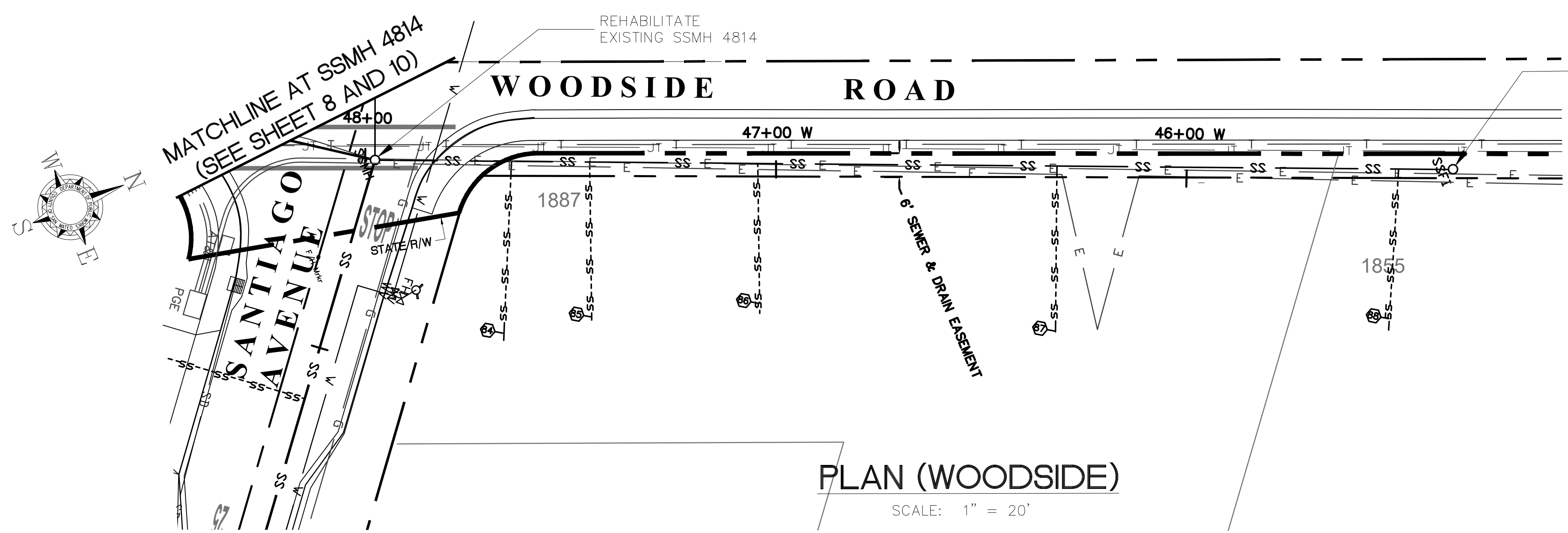


REV. Δ	DESIGNED BY: MM	SANITARY SEWER REPLACEMENT PROJECT IN THE FAIR OAKS SEWER MAINTENANCE DISTRICT		SCALE: AS SHOWN
	CHECKED BY: AL/KL	PLAN AND PROFILE (SANTIAGO)		DATE: 01/28/2022
	DRAWN BY: EPC	ANN MADER STILLMAN, INTERIM DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY		FILE NO.: 1/4692
REVISION	DATE	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063		SHEET 8 OF 18
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES				

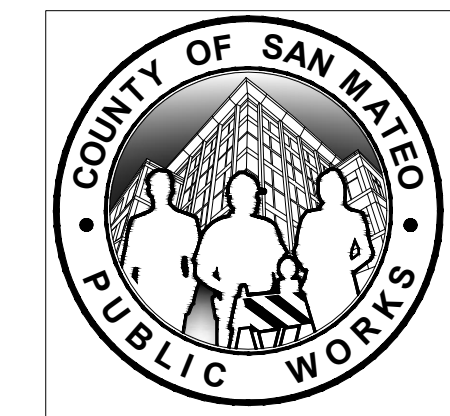
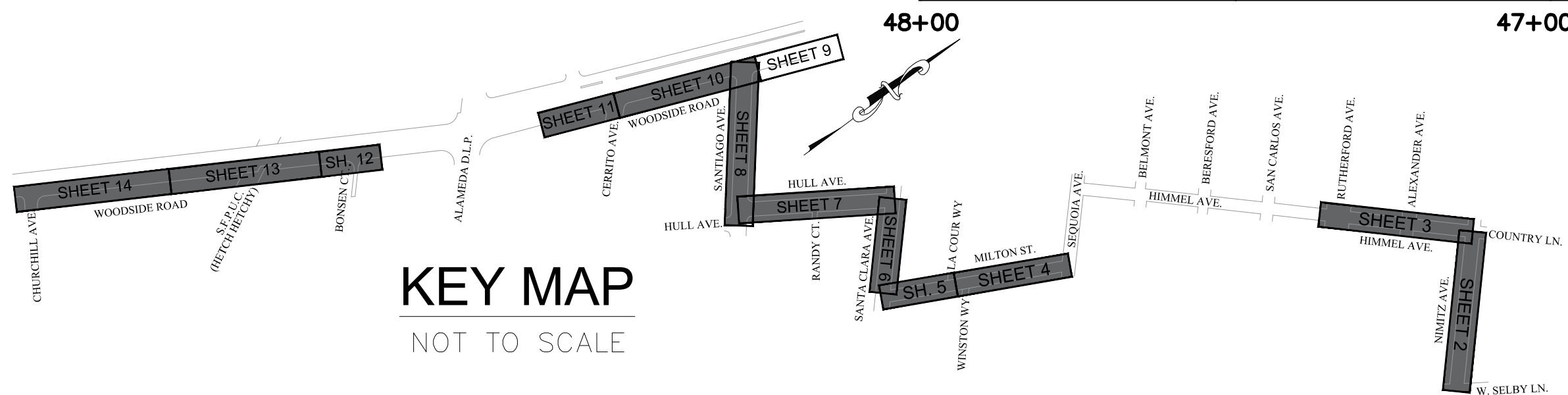
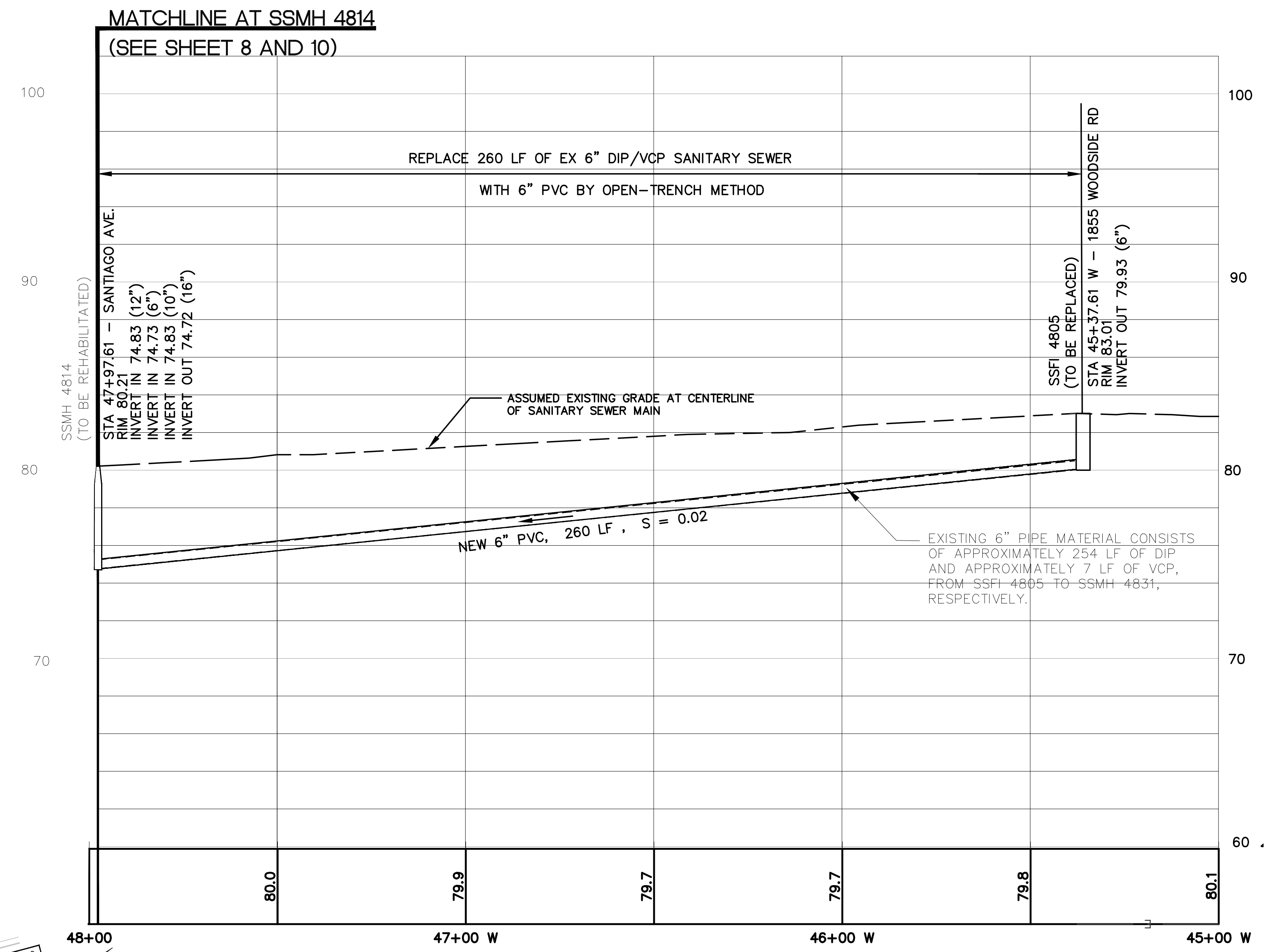
FILENAME: N:\DESIGN\LD\4692000.DWG\2020\4692000E.DWG (LAYOUT)



APPROVED: *Ann Mader Stillman*
 DATE: 01/28/2022
 ANN MADER STILLMAN,
 INTERIM DIRECTOR OF PUBLIC WORKS
 R. C. E. # 47882 / EXPIRES 12-31-2023

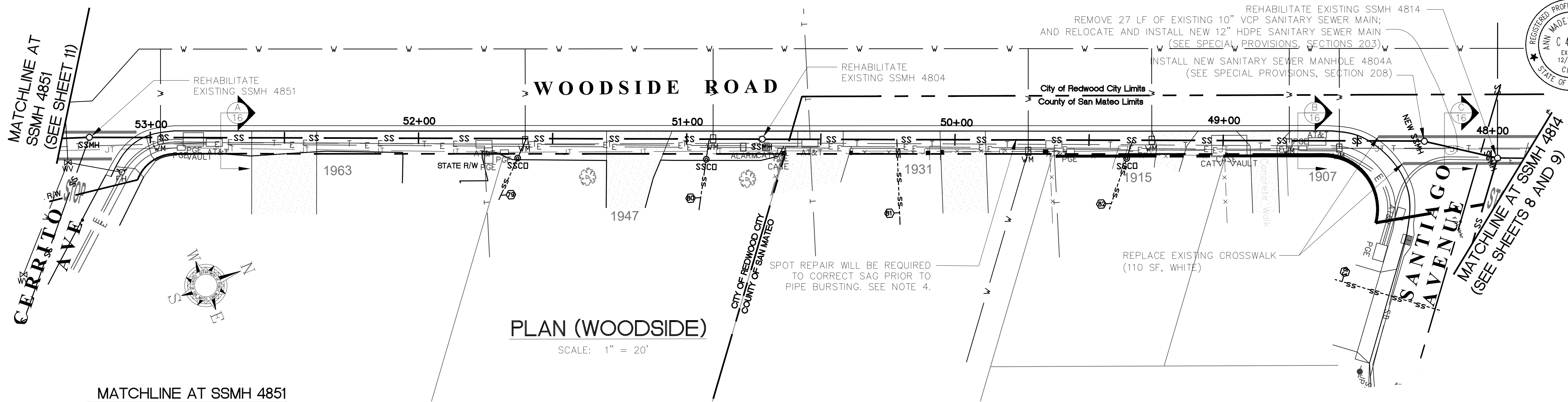


- NOTES:**
- EXISTING SANITARY SEWER LATERAL LOCATIONS ARE APPROXIMATE. ALL SANITARY SEWER LATERALS SHALL BE LOCATED PRIOR TO PERFORMING ANY SANITARY SEWER MAIN WORK.
 - CONTRACTOR SHALL DETERMINE ACTUAL LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING SEWER PIPE REPLACEMENT OPERATIONS.
 - EXISTING FLUSHING INLET AND FLUSHING INLET BRANCH LINE STRUCTURE AND PIPE INFORMATION IS ASSUMED. CONTRACTOR TO VERIFY IN THE FIELD. FLUSHING INLET SHALL BE REPLACED WITH A SANITARY SEWER MANHOLE IF DEPTH ALLOWS.



REV. Δ	DESIGNED BY: MM	SANTARARY SEWER REPLACEMENT PROJECT IN THE FAIR OAKS SEWER MAINTENANCE DISTRICT		SCALE: AS SHOWN
	CHECKED BY: AL/KL	PLAN AND PROFILE (WOODSIDE)		DATE: 01/28/2022
	DRAWN BY: EPC			FILE NO.: 1/4692
REVISION	DATE	ANN MADER STILLMAN, INTERIM DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY		555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES				9 SHEET 9 OF 18

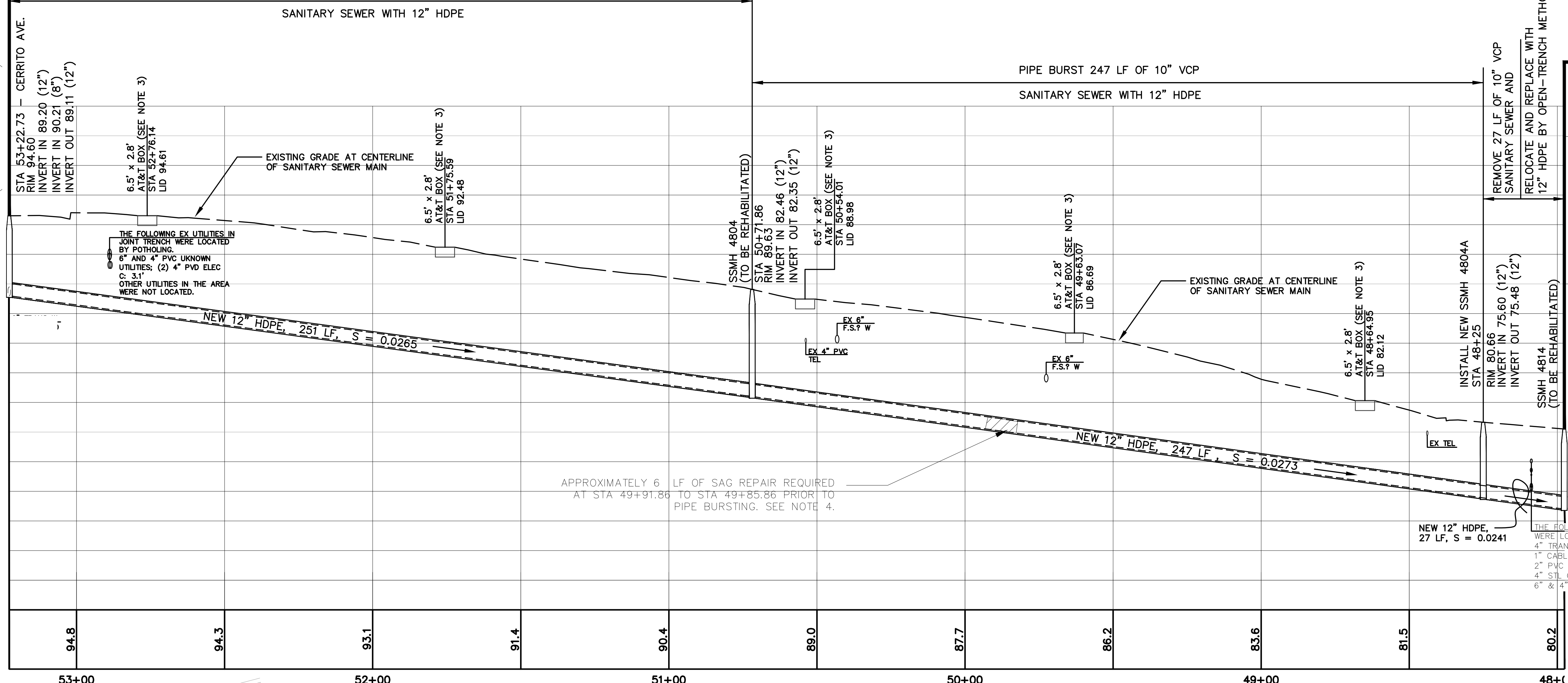
FILENAME: N:\DESIGN\DD\4692000\DWG\2020\4692009.DWG (LAYOUT)



APPROVED: *Ann Mader Stillman*
 DATE: 01/28/2022
 ANN MADER STILLMAN,
 INTERIM DIRECTOR OF PUBLIC WORKS
 R. C. E. # 47882 / EXPIRES 12-31-2023

- NOTES:**
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 - CONTRACTOR SHALL DETERMINE ACTUAL LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING SEWER PIPE REPLACEMENT OPERATIONS.
 - ACCORDING TO AT&T RECORDS, AT&T BOXES SHOWN CONTAIN SINGLE 4" DIAMETER CONDUIT; EACH CONDUIT IS TYPICALLY LOCATED AT A DEPTH OF 30" - 36". (REFERENCE SHEET 1, "GENERAL NOTES" ITEMS 9, 10, 11, 12 & 13.)
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXACT LOCATIONS AND LENGTHS OF EACH PRE-EXISTING SAG THROUGH THEIR OWN PRECONSTRUCTION VIDEO INSPECTION.

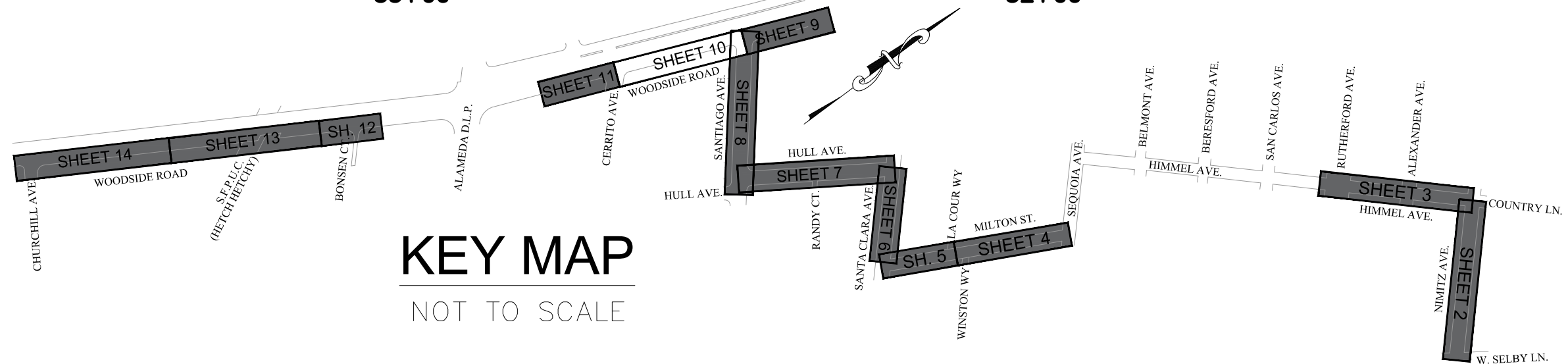
MATCHLINE AT SSMH 4851
(SEE SHEET 11)



MATCHLINE AT SSMH 4814
(SEE SHEET 8 AND 9)

PROFILE (WOODSIDE)

SCALE: HORIZONTAL: 1" = 20'
 VERTICAL: 1" = 4'



KEY MAP
NOT TO SCALE

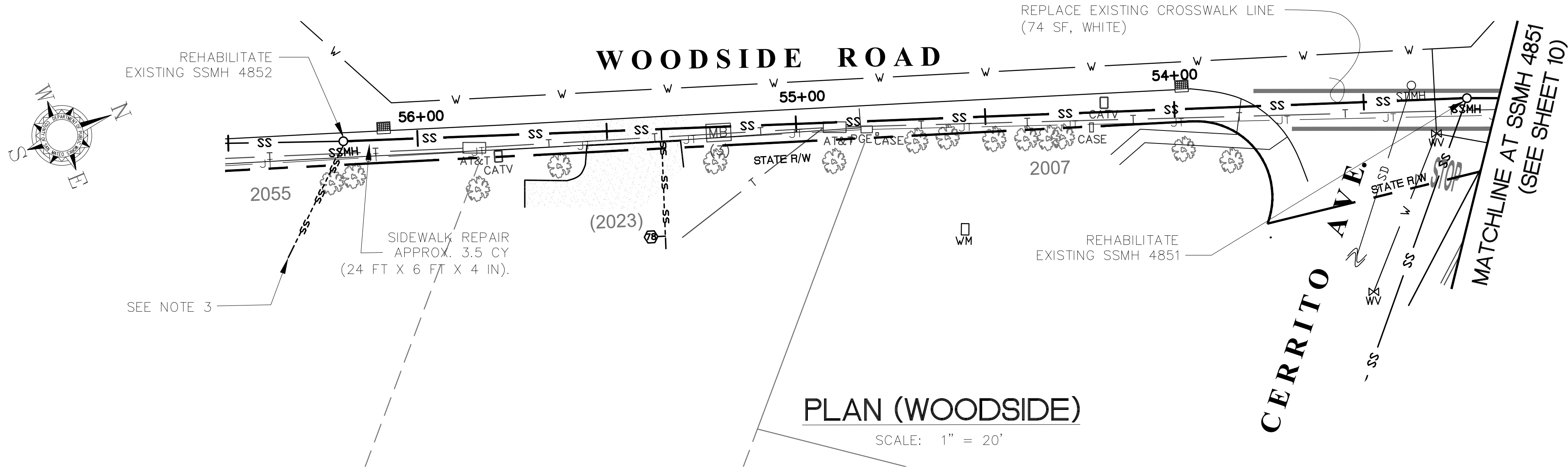


REV. Δ	DESIGNED BY: MM	SANITARY SEWER REPLACEMENT PROJECT IN THE FAIR OAKS SEWER MAINTENANCE DISTRICT		SCALE: AS SHOWN
	CHECKED BY: AL/KL	PLAN AND PROFILE (WOODSIDE)		DATE: 01/28/2022
	DRAWN BY: EPC	FILE NO.: 1/4692		
REVISION	DATE	ANN MADER STILLMAN, INTERIM DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY		555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES				10 SHEET 10 OF 18

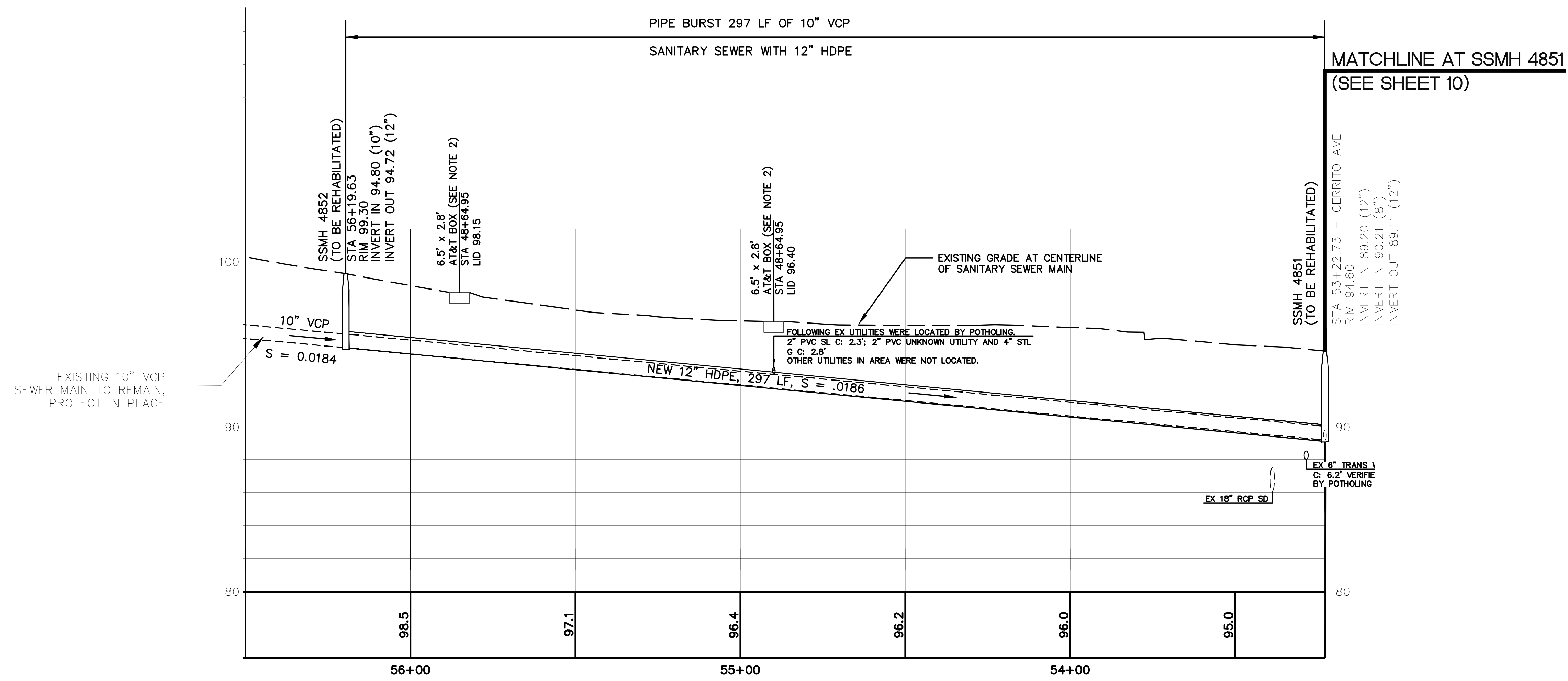
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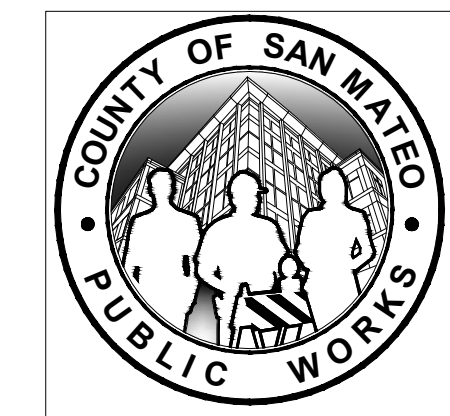
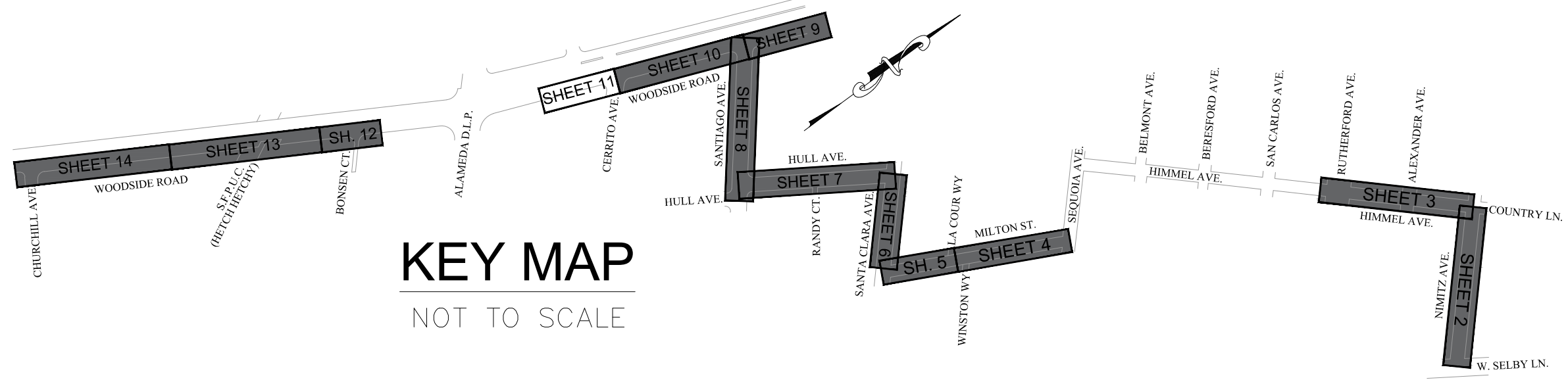
APPROVED: _____
 DATE: 01/28/2022
 ANN MADER STILLMAN,
 INTERIM DIRECTOR OF PUBLIC WORKS
 R. C. E. # 47882 / EXPIRES 12-31-2023



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- EXISTING SANITARY SEWER LATERAL LOCATIONS ARE APPROXIMATE. ALL SANITARY SEWER LATERALS SHALL BE LOCATED PRIOR TO PERFORMING ANY SANITARY SEWER MAIN WORK.
 - ACCORDING TO AT&T RECORDS, AT&T BOXES SHOWN CONTAIN SINGLE 4" DIAMETER CONDUIT; EACH CONDUIT IS TYPICALLY LOCATED AT A DEPTH OF 30"-36". (REFERENCE SHEET 1, "GENERAL NOTES," ITEMS 9, 10, 11, 12 & 13.)
 - EXISTING SANITARY SEWER LATERAL FOR 2055 WOODSIDE ROAD CONNECTS TO MANHOLE SSMH 4852 AND IS UNAFFECTED BY PIPE REPLACEMENT OPERATIONS.



PROFILE (WOODSIDE)
 SCALE: HORIZONTAL: 1" = 20'
 VERTICAL: 1" = 4'

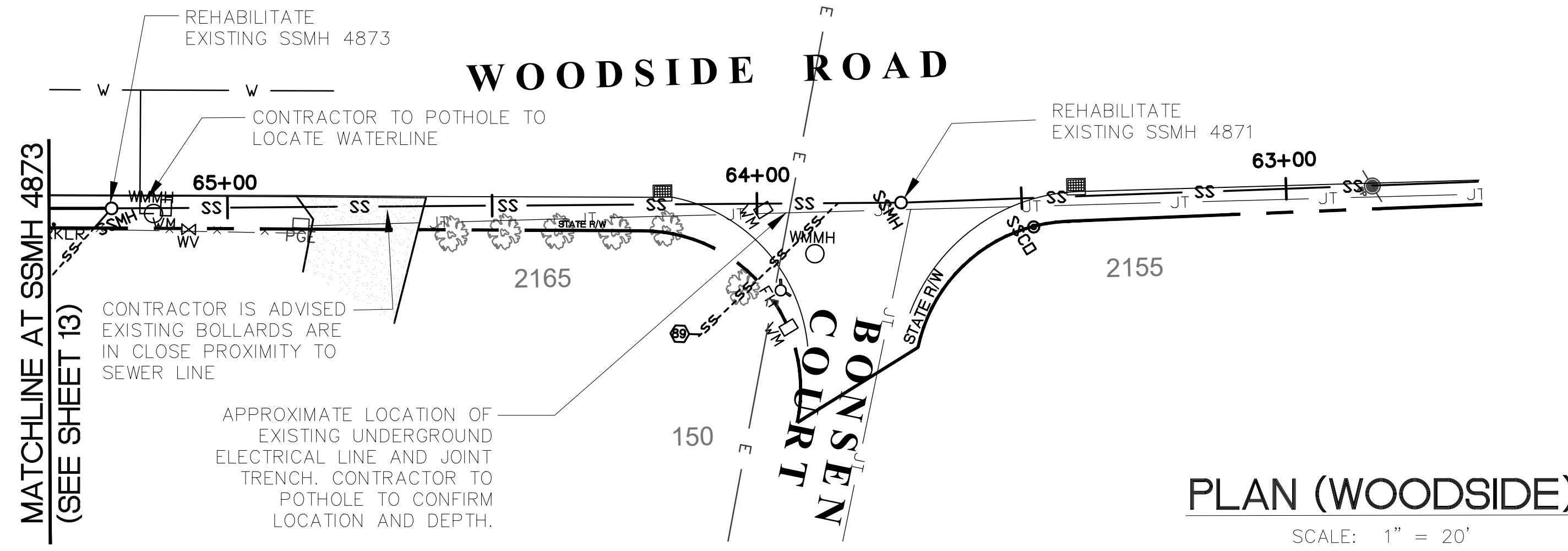
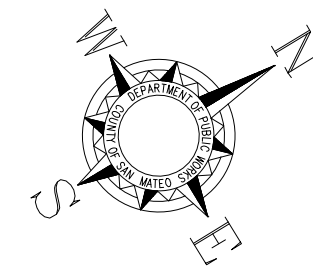


REV. Δ	DESIGNED BY: MM	SANITARY SEWER REPLACEMENT PROJECT IN THE FAIR OAKS SEWER MAINTENANCE DISTRICT		SCALE: AS SHOWN
	CHECKED BY: AL/KL	PLAN AND PROFILE (WOODSIDE)		DATE: 01/28/2022
	DRAWN BY: EPC			FILE NO.: 1/4692
REVISION	DATE	ANN MADER STILLMAN, INTERIM DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY		555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES				11 SHEET 11 OF 18

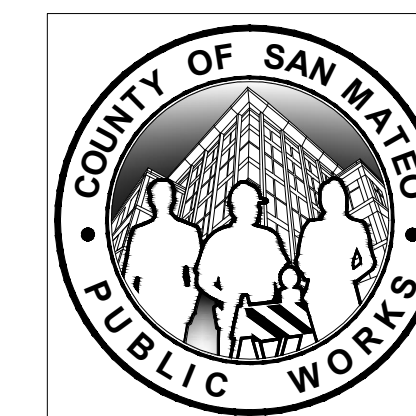
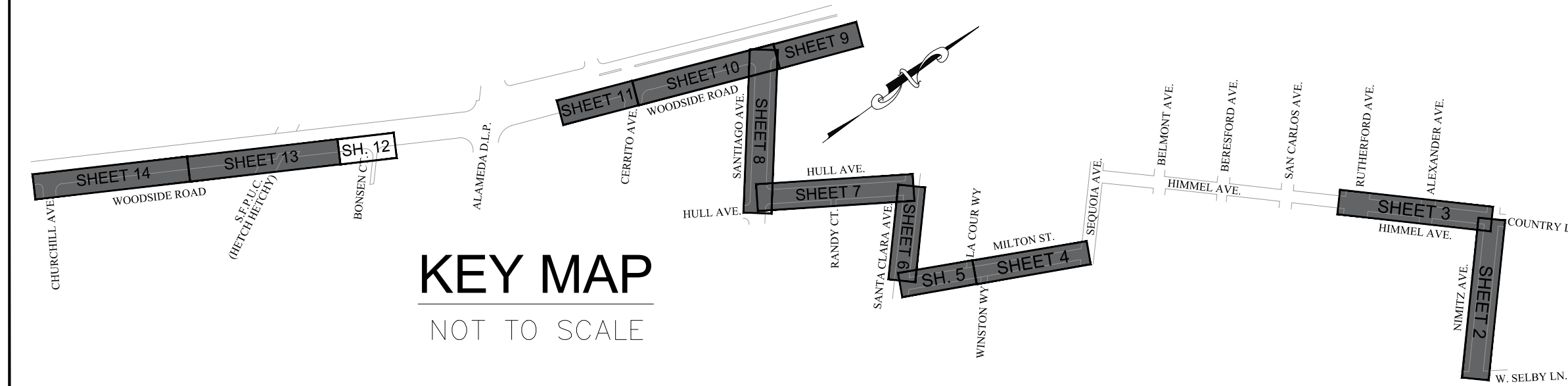
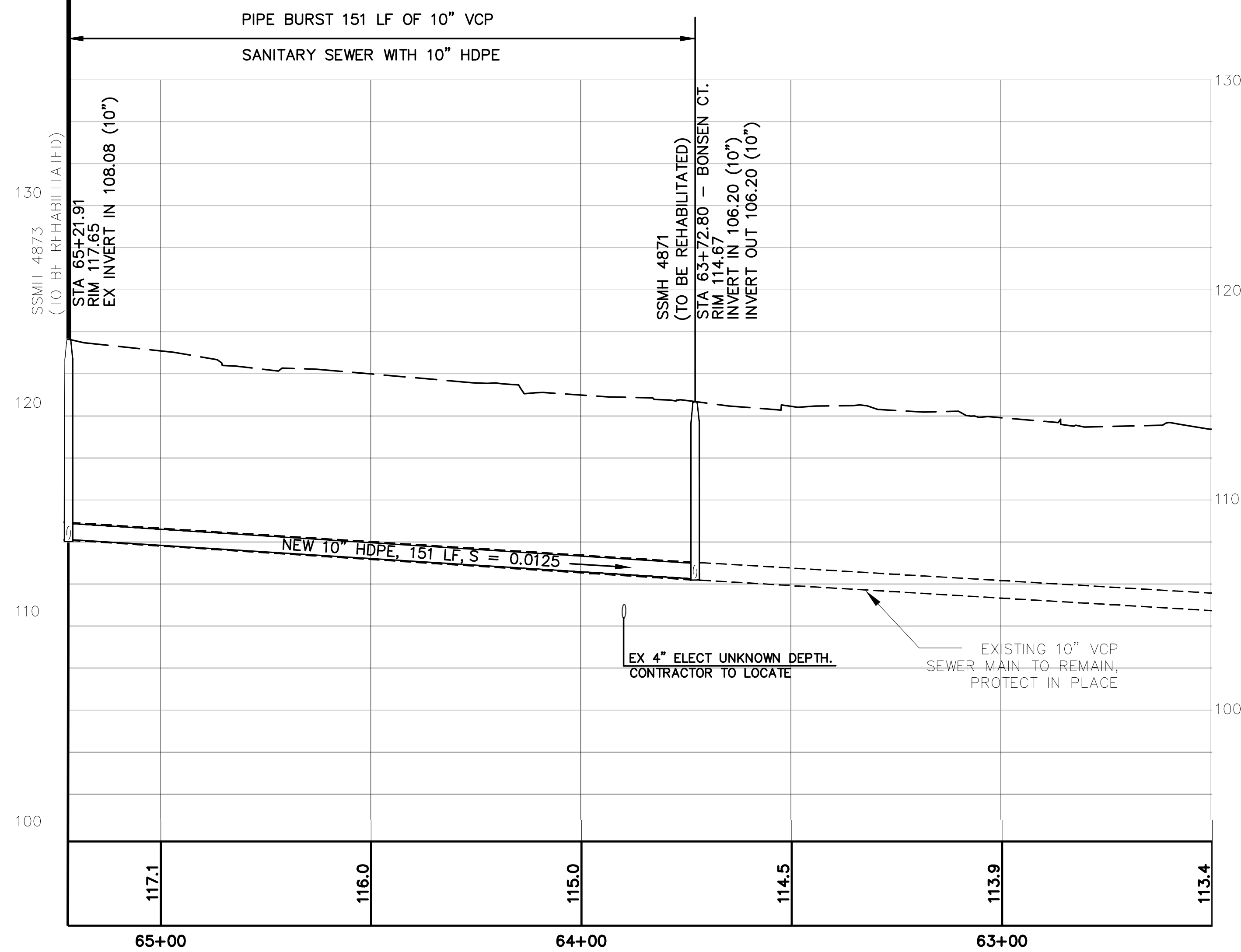
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 DATE: 01/28/2022
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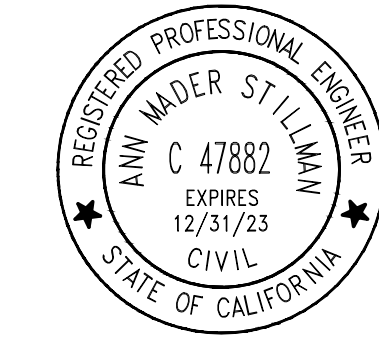


MATCHLINE AT SSMH 4873
 (SEE SHEET 13)



REV. Δ	DESIGNED BY: MM	SANITARY SEWER REPLACEMENT PROJECT IN THE FAIR OAKS SEWER MAINTENANCE DISTRICT PLAN AND PROFILE (WOODSIDE)		SCALE: AS SHOWN
	CHECKED BY: AL/KL			DATE: 01/28/2022
	DRAWN BY: EPC			FILE NO.: 1/4692
REVISION	DATE	ANN MADER STILLMAN, INTERIM DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY		555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES				12 SHEET 12 OF 18

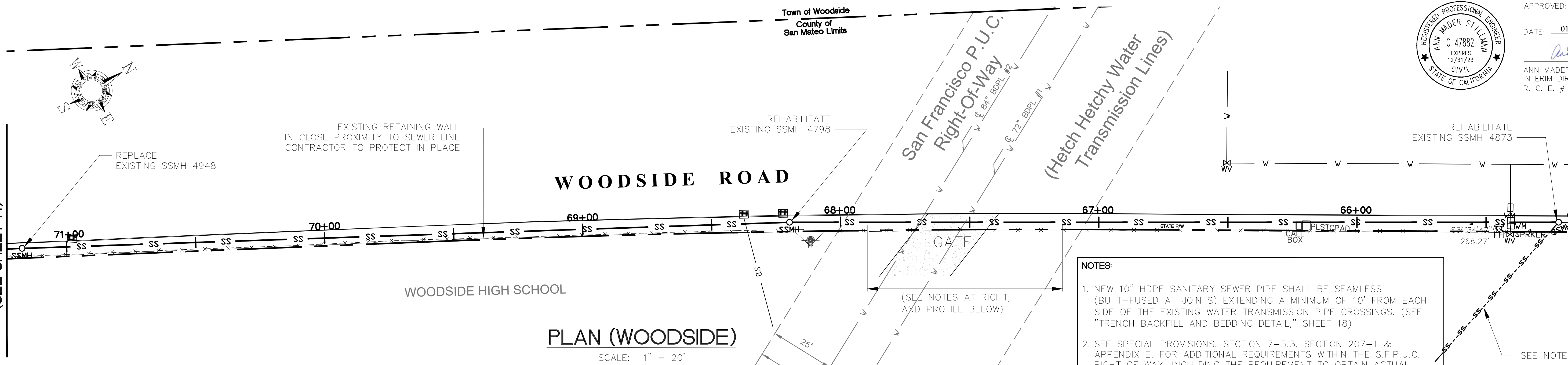
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APPROVED: _____
 DATE: 01/28/2022
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 INTERIM DIRECTOR OF PUBLIC WORKS
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MATCHLINE AT SSMH 4948
(SEE SHEET 14)

MATCHLINE AT SSMH 4873
(SEE SHEET 12)

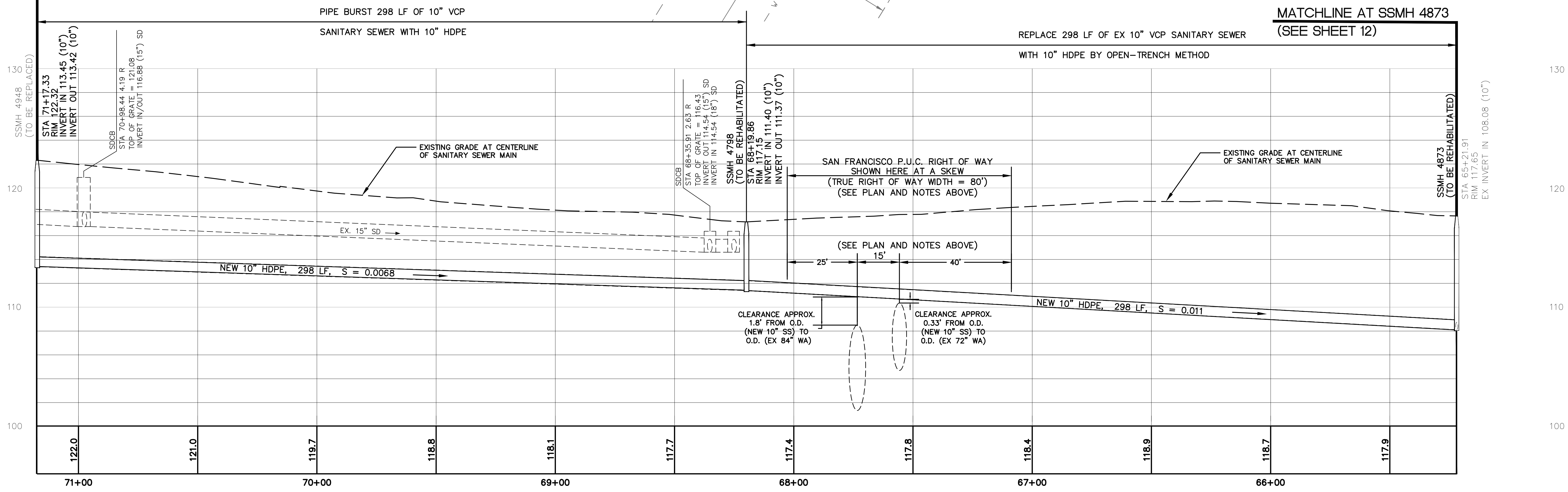


NOTES:

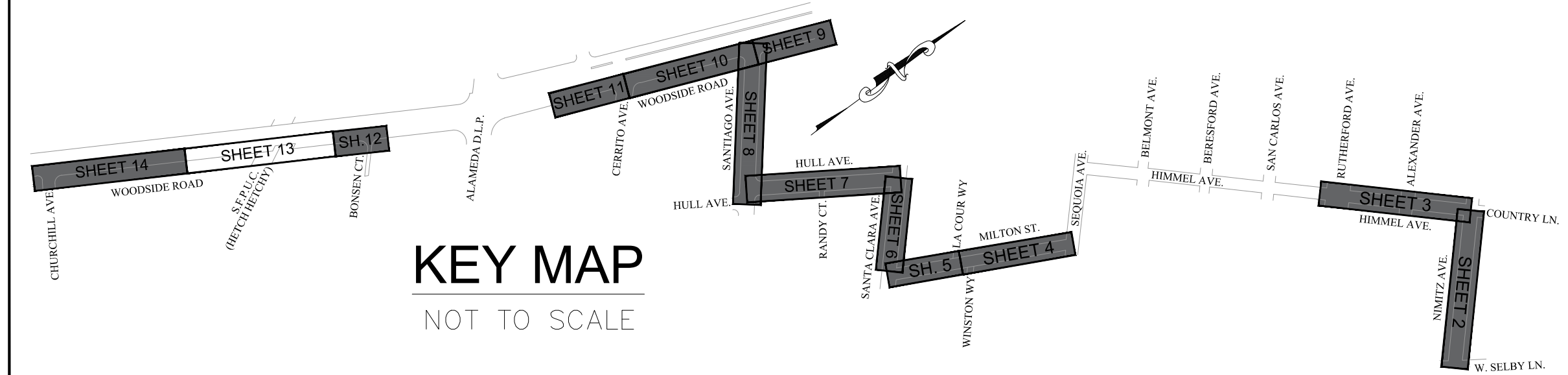
1. NEW 10" HDPE SANITARY SEWER PIPE SHALL BE SEAMLESS (BUTT-FUSED AT JOINTS) EXTENDING A MINIMUM OF 10' FROM EACH SIDE OF THE EXISTING WATER TRANSMISSION PIPE CROSSINGS. (SEE "TRENCH BACKFILL AND BEDDING DETAIL," SHEET 18)
2. SEE SPECIAL PROVISIONS, SECTION 7-5.3, SECTION 207-1 & APPENDIX E, FOR ADDITIONAL REQUIREMENTS WITHIN THE S.F.P.U.C. RIGHT OF WAY, INCLUDING THE REQUIREMENT TO OBTAIN ACTUAL ELEVATIONS OF SFPUC FACILITIES PRIOR TO BEGINNING SEWER PIPE REPLACEMENT OPERATIONS WITHIN SFPUC RIGHT-OF-WAY
3. EXISTING SANITARY SEWER LATERAL FOR WOODSIDE HIGH SCHOOL CONNECTS TO MANHOLE SSMH 4873 AND IS UNAFFECTED BY PIPE REPLACEMENT OPERATIONS.

MATCHLINE AT SSMH 4948
(SEE SHEET 14)

MATCHLINE AT SSMH 4873
(SEE SHEET 12)

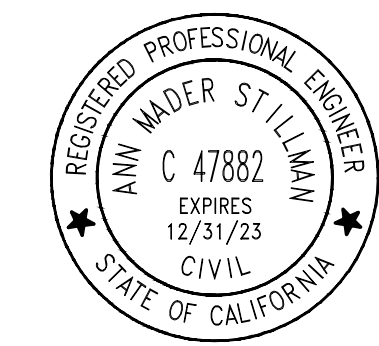


PROFILE (WOODSIDE)

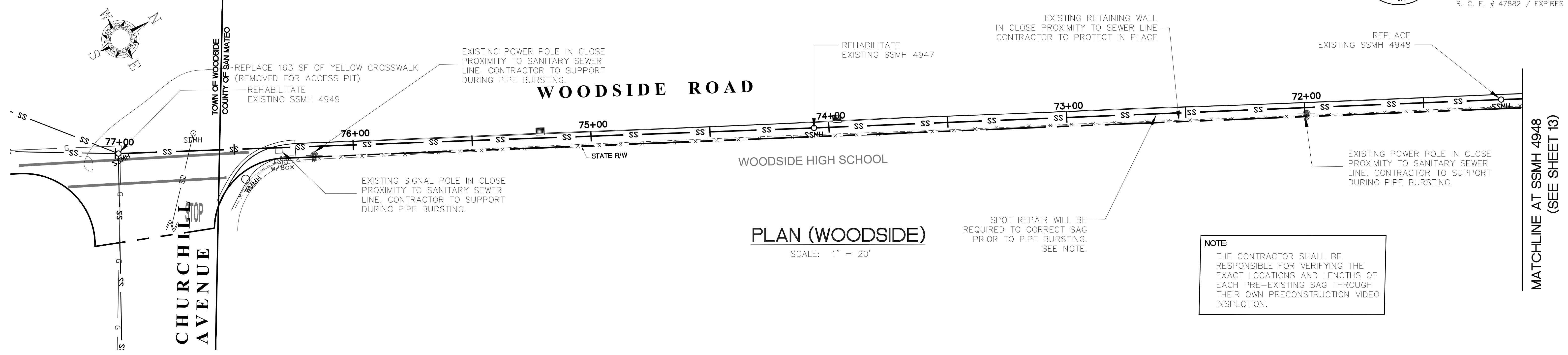


DESIGNED BY: MM	CHECKED BY: AL/KL	DRAWN BY: EPC	ANN MADER STILLMAN, INTERIM DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063
SANITARY SEWER REPLACEMENT PROJECT IN THE FAIR OAKS SEWER MAINTENANCE DISTRICT PLAN AND PROFILE (WOODSIDE)			SCALE: AS SHOWN	DATE: 01/28/2022
FILE NO.: 1/4692			FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES	
REVISION			DATE	
0			1 2 3 4	
13			SHEET 13 OF 18	

FILENAME: N:\DESIGN\LD\14692000\DWG\2020\14692013.DWG (LAYOUT1)

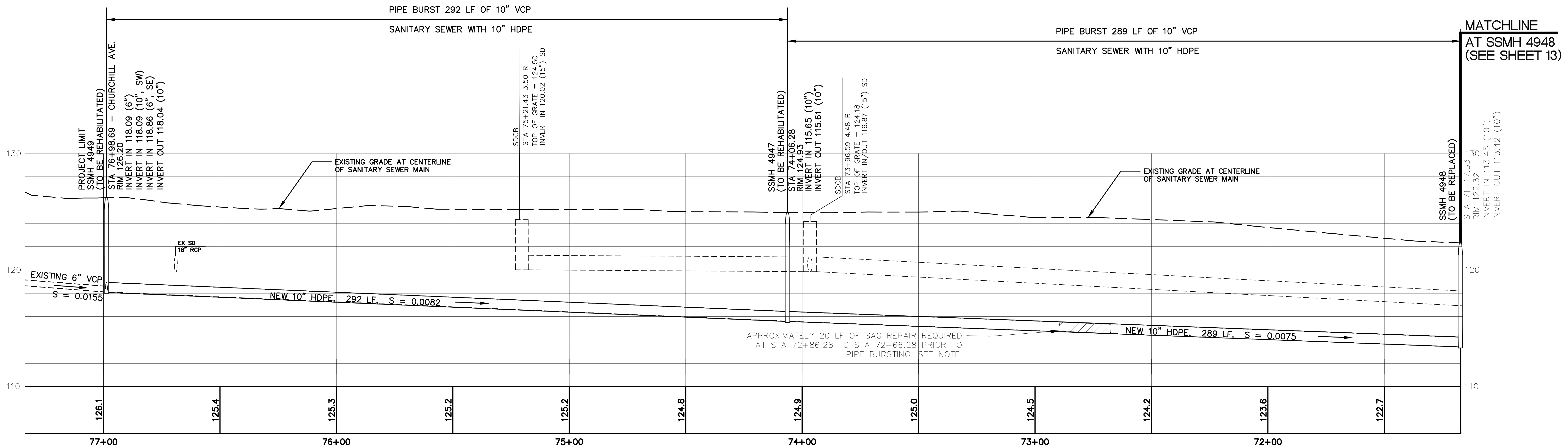


APPROVED: _____
 DATE: 01/28/2022
 ANN MADER STILLMAN,
 INTERIM DIRECTOR OF PUBLIC WORKS
 R. C. E. # 47882 / EXPIRES 12-31-2023

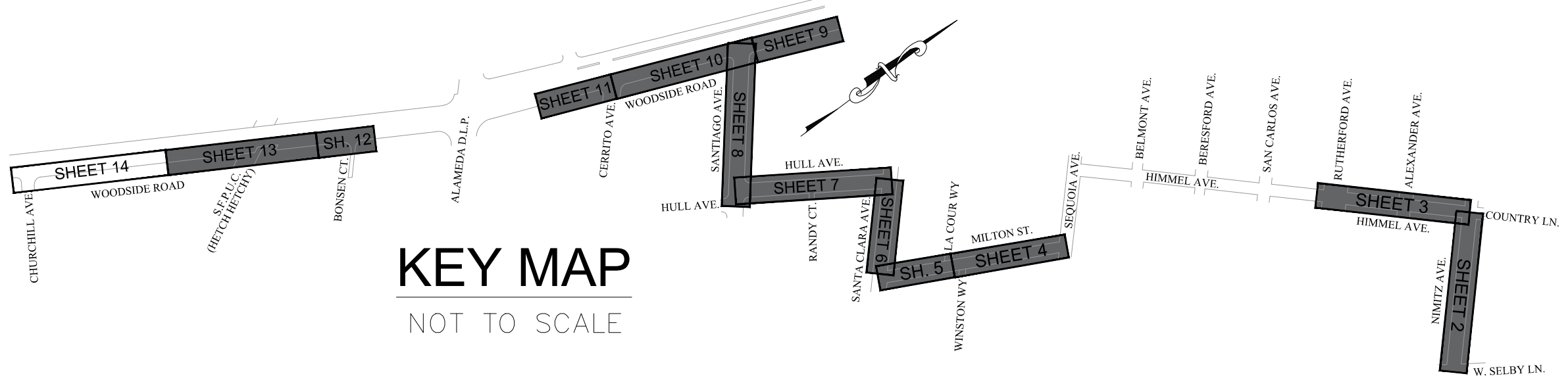


PLAN (WOODSIDE)
 SCALE: 1" = 20'

NOTE:
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXACT LOCATIONS AND LENGTHS OF EACH PRE-EXISTING SAG THROUGH THEIR OWN PRECONSTRUCTION VIDEO INSPECTION.



PROFILE (WOODSIDE)
 SCALE: HORIZONTAL: 1" = 20'
 VERTICAL: 1" = 4'

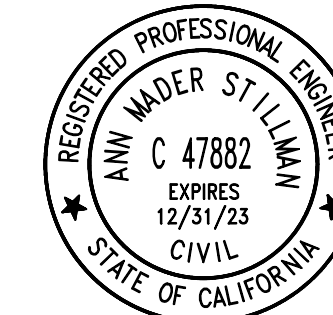


KEY MAP
 NOT TO SCALE



REV. Δ	DESIGNED BY: MM	SANITARY SEWER REPLACEMENT PROJECT IN THE FAIR OAKS SEWER MAINTENANCE DISTRICT		SCALE: AS SHOWN
	CHECKED BY: AL/KL	PLAN AND PROFILE (WOODSIDE)		DATE: 01/28/2022
	DRAWN BY: EPC			FILE NO.: 1/4692
REVISION	DATE	ANN MADER STILLMAN, INTERIM DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY		555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES				14 SHEET 14 OF 18

FILENAME: N:\DESIGN\LD0\4692000\DWG\2022\1_4692014.DWG (LAYOUT1)



APPROVED:
 DATE: 01/28/2022
 ANN MADER STILLMAN,
 INTERIM DIRECTOR OF PUBLIC WORKS
 R. C. E. # 47882 / EXPIRES 12-31-2023



LEGEND

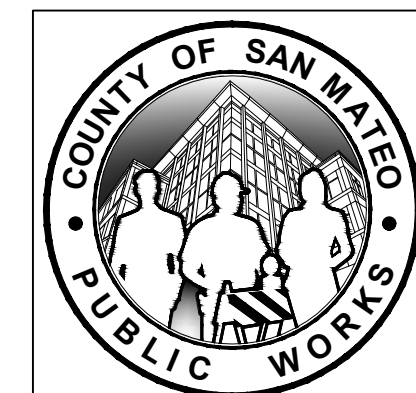
STREETS TO BE SLURRY SEALED

ROADS TO BE SLURRY SEALED		
ROAD NAME	BEGIN LOCATION	END LOCATION
SANTIAGO AVENUE	WOODSIDE ROAD/STATE ROW	HULL AVENUE
HULL AVENUE	SANTIAGO AVENUE	SANTA CLARA AVENUE
SANTA CLARA AVENUE	HULL AVENUE	MILTON STREET
MILTON STREET	SANTA CLARA AVENUE	SEQUOIA AVENUE
HIMMEL AVENUE	RUTHERFORD AVENUE	NIMITZ AVENUE
NIMITZ AVENUE	HIMMEL AVENUE	WEST SELBY LANE

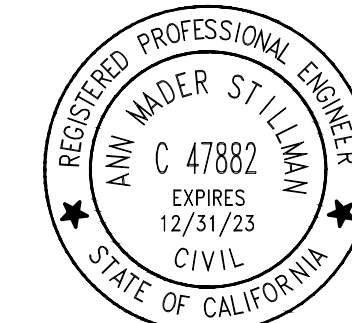
NOTES:

- CONTRACTOR TO REMOVE ALL STRIPING, MARKINGS, AND MARKERS PRIOR TO PLACING SLURRY SEAL.
- CONTRACTOR TO PROVIDE TEMPORARY TRAFFIC CONTROL DURING SLURRY SEAL OPERATIONS. CONTRACTOR TO PROVIDE A TRAFFIC CONTROL PLAN TO THE ENGINEER FOR APPROVAL PRIOR TO SLURRY SEAL OPERATIONS.
- ALL POTHOLES, TRENCHES, AND ACCESS PITS CREATED AS A RESULT OF SANITARY SEWER PIPE REPLACEMENT SHALL BE BACKFILLED AND CAPPED PROPERLY, AND A SLURRY SEAL SHALL BE APPLIED TO THE FULL WIDTH OF THE ROAD.
- CONTRACTOR SHALL COMMENCE PLACEMENT OF CAT-TRACKS AND TEMPORARY PAVEMENT LEGENDS NO SOONER THAN FIVE (5) WORKING DAYS AND NO LATER THAN SEVEN (7) WORKING DAYS AFTER COMPLETION OF SLURRY SEALING OPERATIONS. CONTRACTOR SHALL COMMENCE PLACEMENT OF PERMANENT TRAFFIC STRIPES AND PAVEMENT MARKINGS WITHIN TWO (2) WORKING DAYS AFTER APPROVAL OF CAT-TRACKS BY THE ENGINEER.

FILENAME: N:\DESIGN\1\DD\14692000\DWG\2020\14692015.DWG (LAYOUT 1)



DESIGNED BY: MM	SANITARY SEWER REPLACEMENT PROJECT		SCALE: AS SHOWN
CHECKED BY: AL/KL	IN THE FAIR OAKS SEWER MAINTENANCE DISTRICT		DATE: 01/28/2022
DRAWN BY: MM	SLURRY SEAL LIMITS		FILE NO.: 1/E4692
ANN MADER STILLMAN, INTERIM DIRECTOR OF PUBLIC WORKS COUNTY SAN MATEO		555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063	
REVISION	DATE		
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES		0 1 2 3 4 15 SHEET 15 OF 18	

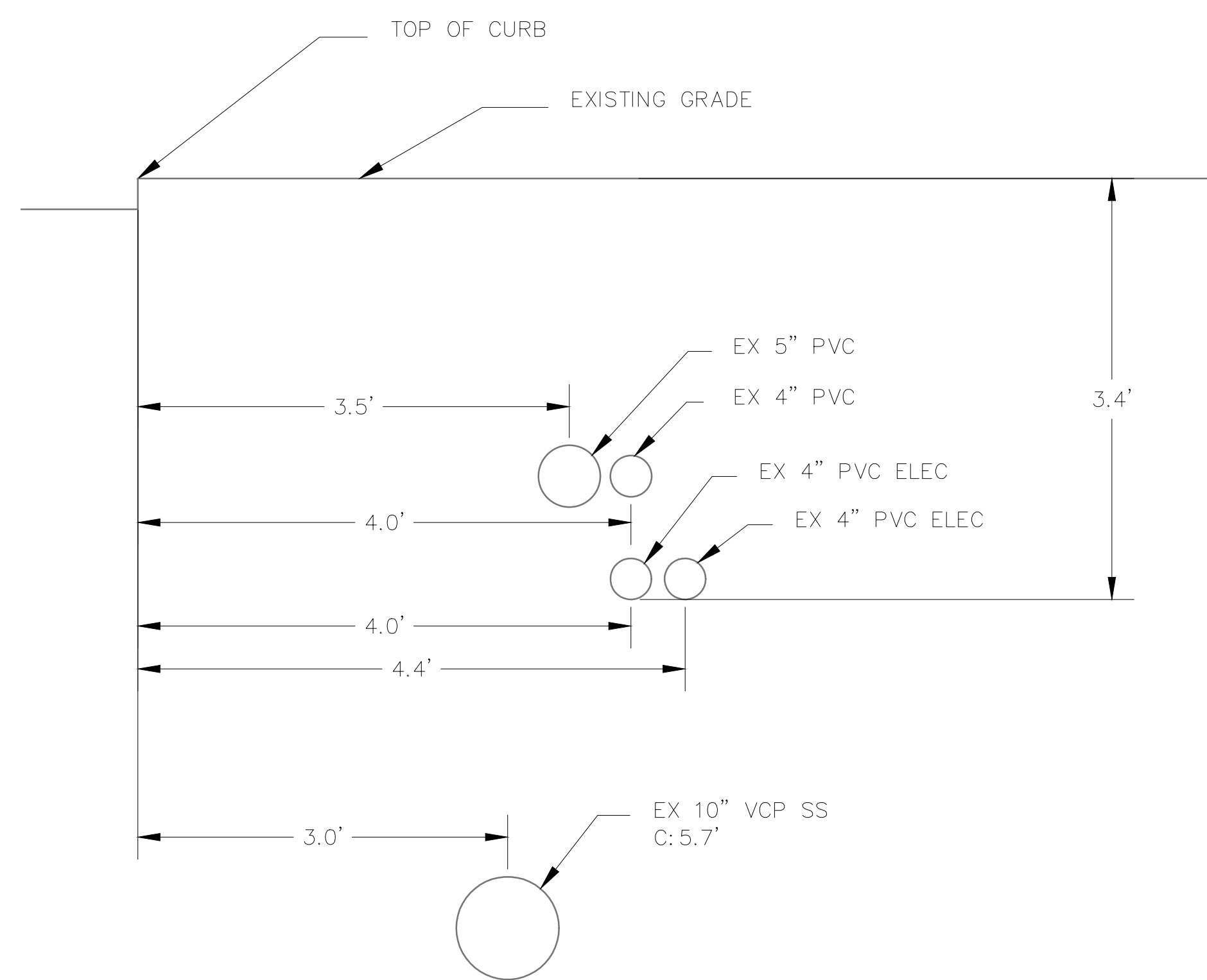


APPROVED:

DATE: 01/28/2022

Ann Mader Stillman

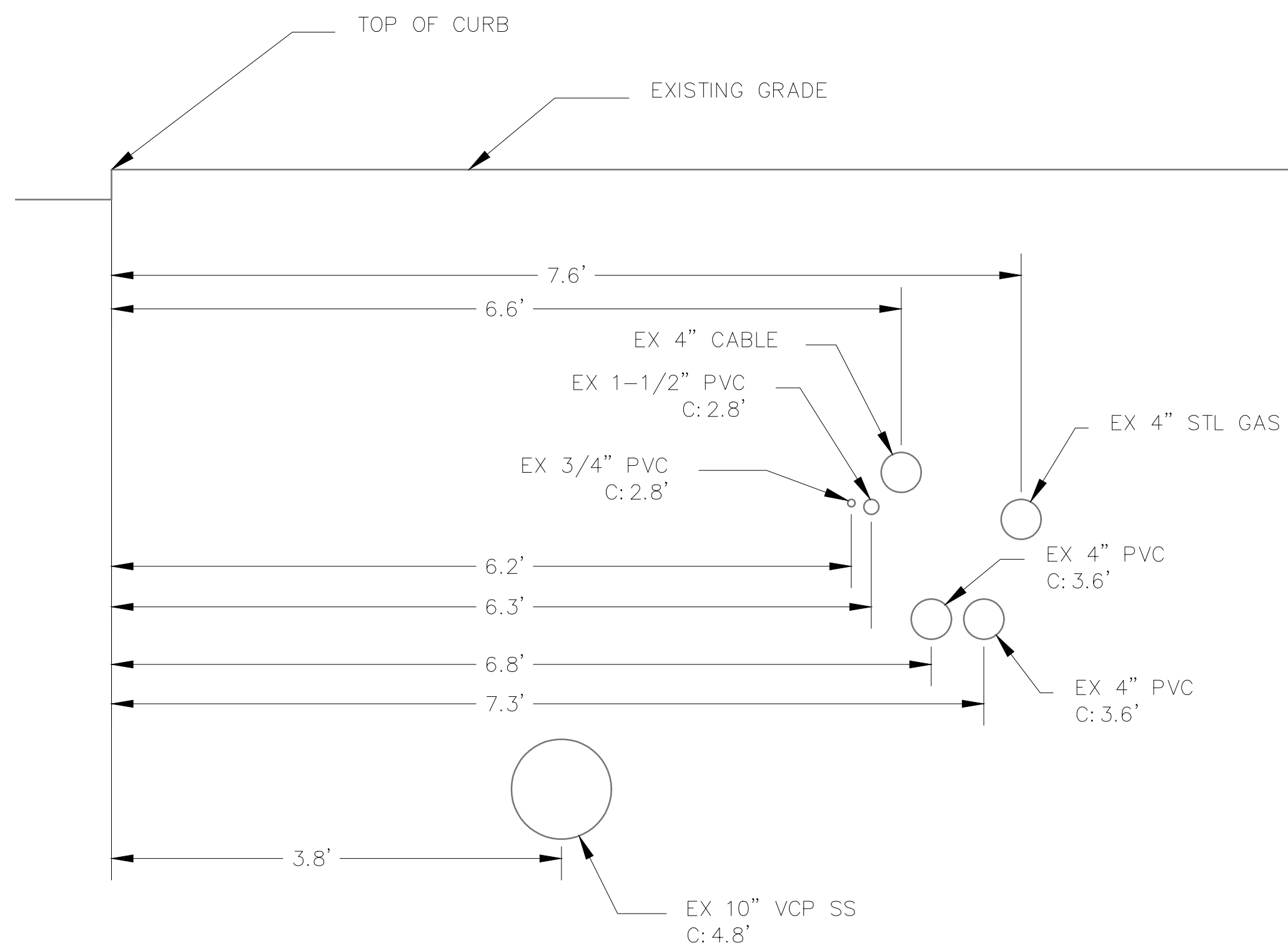
ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023



DETAIL (1963 WOODSIDE RD)

SCALE: NO SCALE

A
16

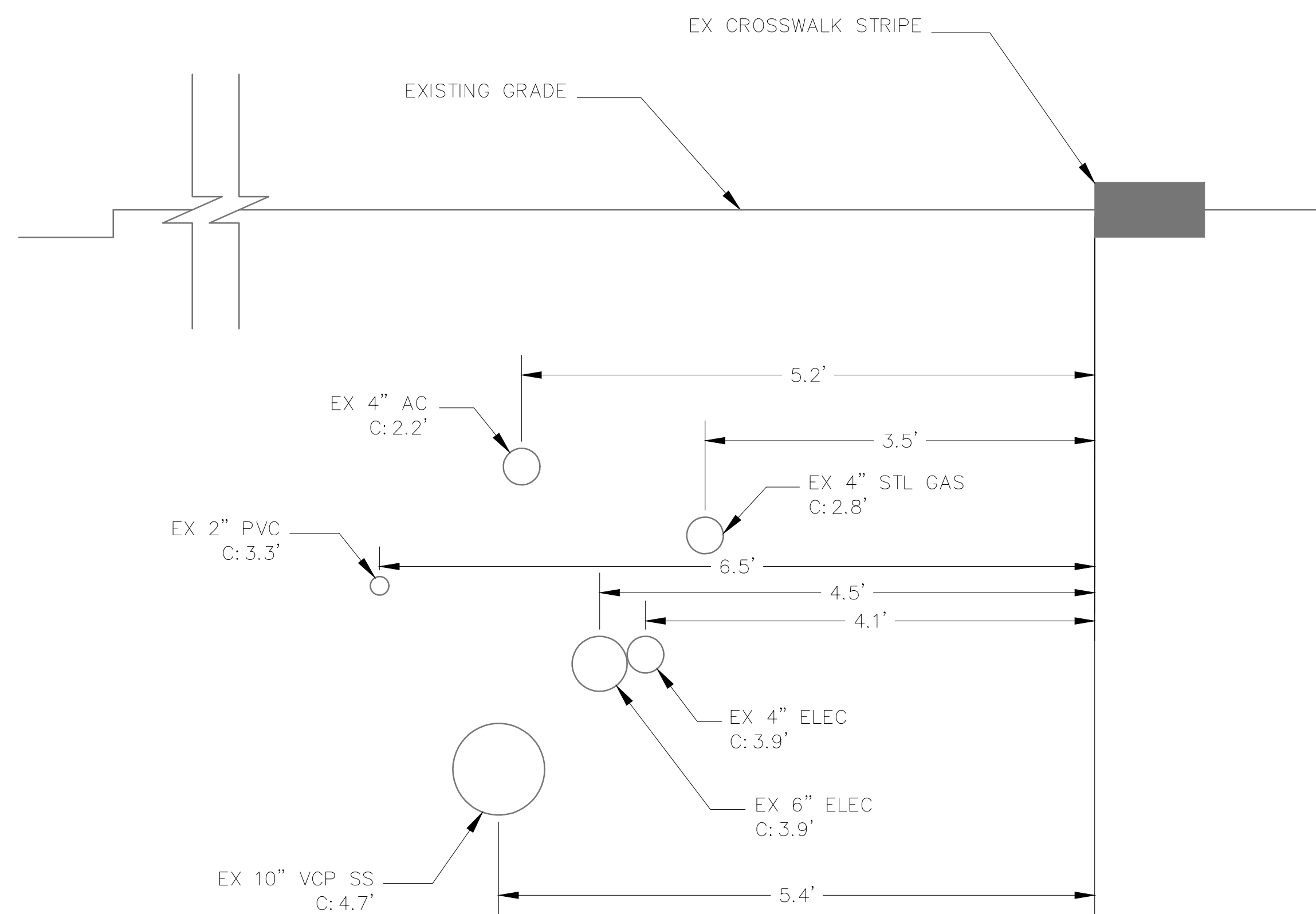


DETAIL (1907 WOODSIDE RD)

SCALE: NO SCALE

B
16

NOTES:
1. LOCATIONS OF EXISTING UTILITIES IN CROSS-SECTIONS ARE APPROXIMATE. CONTRACTOR SHALL DETERMINE ACTUAL LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING SEWER PIPE REPLACEMENT OPERATIONS.



DETAIL (SANTIAGO AVE AND WOODSIDE RD)

SCALE: NO SCALE

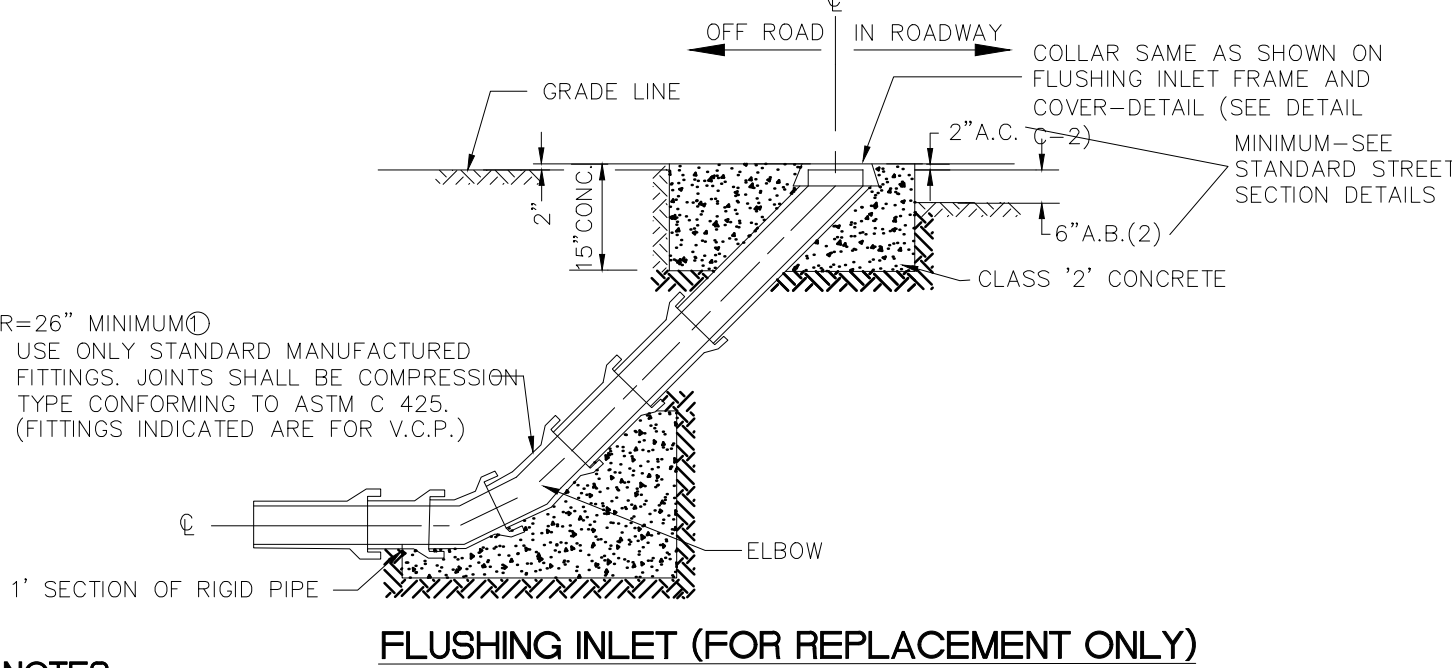
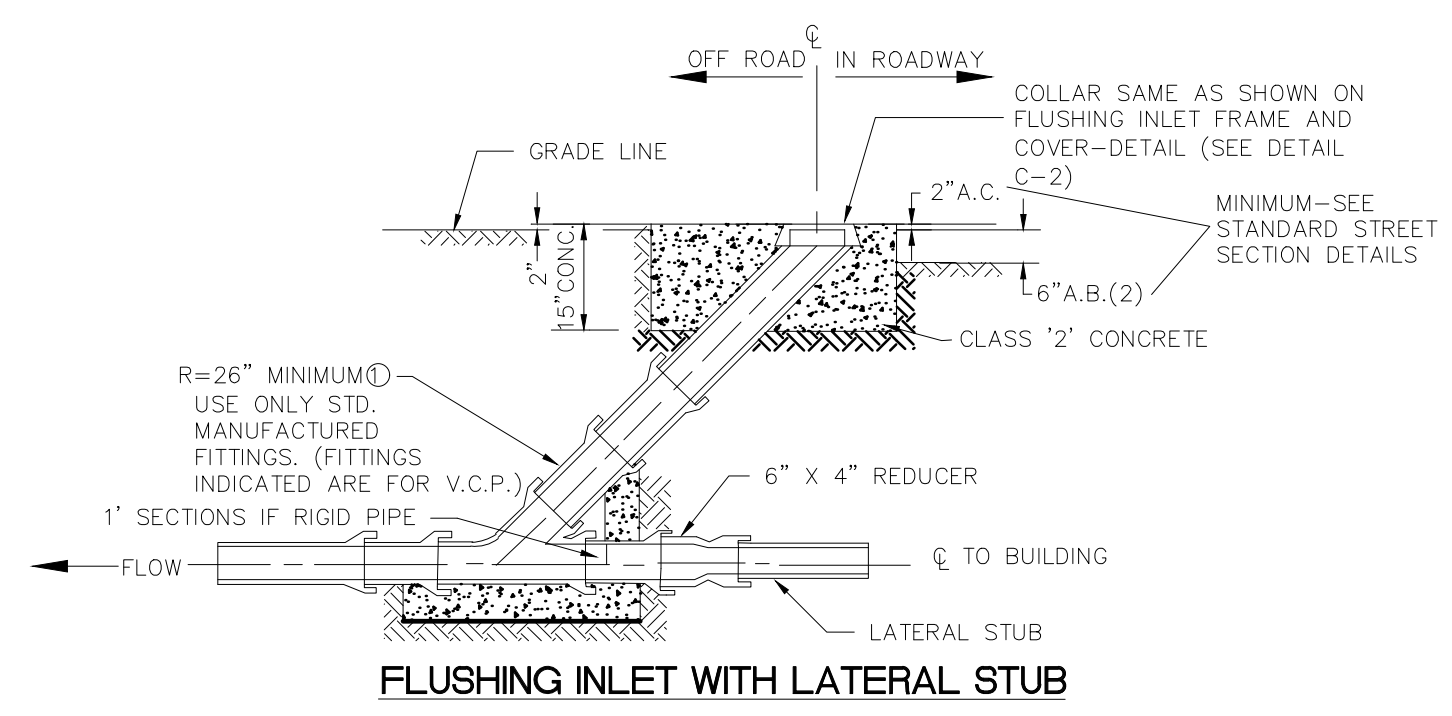
C
16

REV. Δ	DESIGNED BY: MM	SANITARY SEWER REPLACEMENT PROJECT (FAIR OAKS SEWER MAINTENANCE DISTRICT)		SCALE: AS SHOWN
	CHECKED BY: AL/KL	MISCELLANEOUS DETAILS		DATE: 01/28/2022
	DRAWN BY: KL			FILE NO.: 1/4692
REVISION	DATE	ANN MADER STILLMAN, INTERIM DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063	
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES				16 SHEET 16 OF 18

FILENAME: N:\DESIGN\LD\4692000\DWG\2022\1-4692016.DWG (SHT 16)

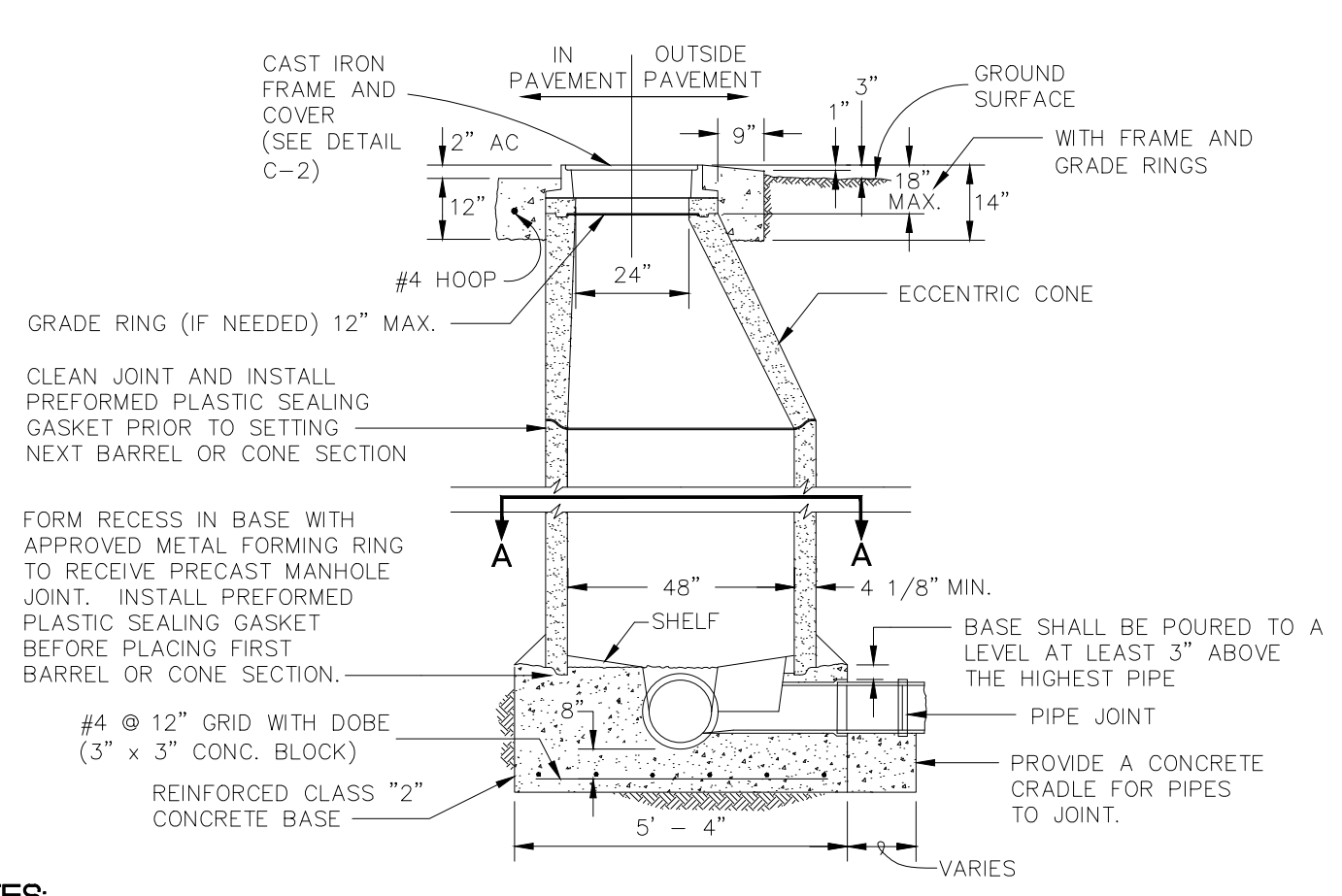


APPROVED:
 DATE: 01/28/2022
 ANN MADER STILLMAN,
 INTERIM DIRECTOR OF PUBLIC WORKS
 R. C. E. # 47882 / EXPIRES 12-31-2023



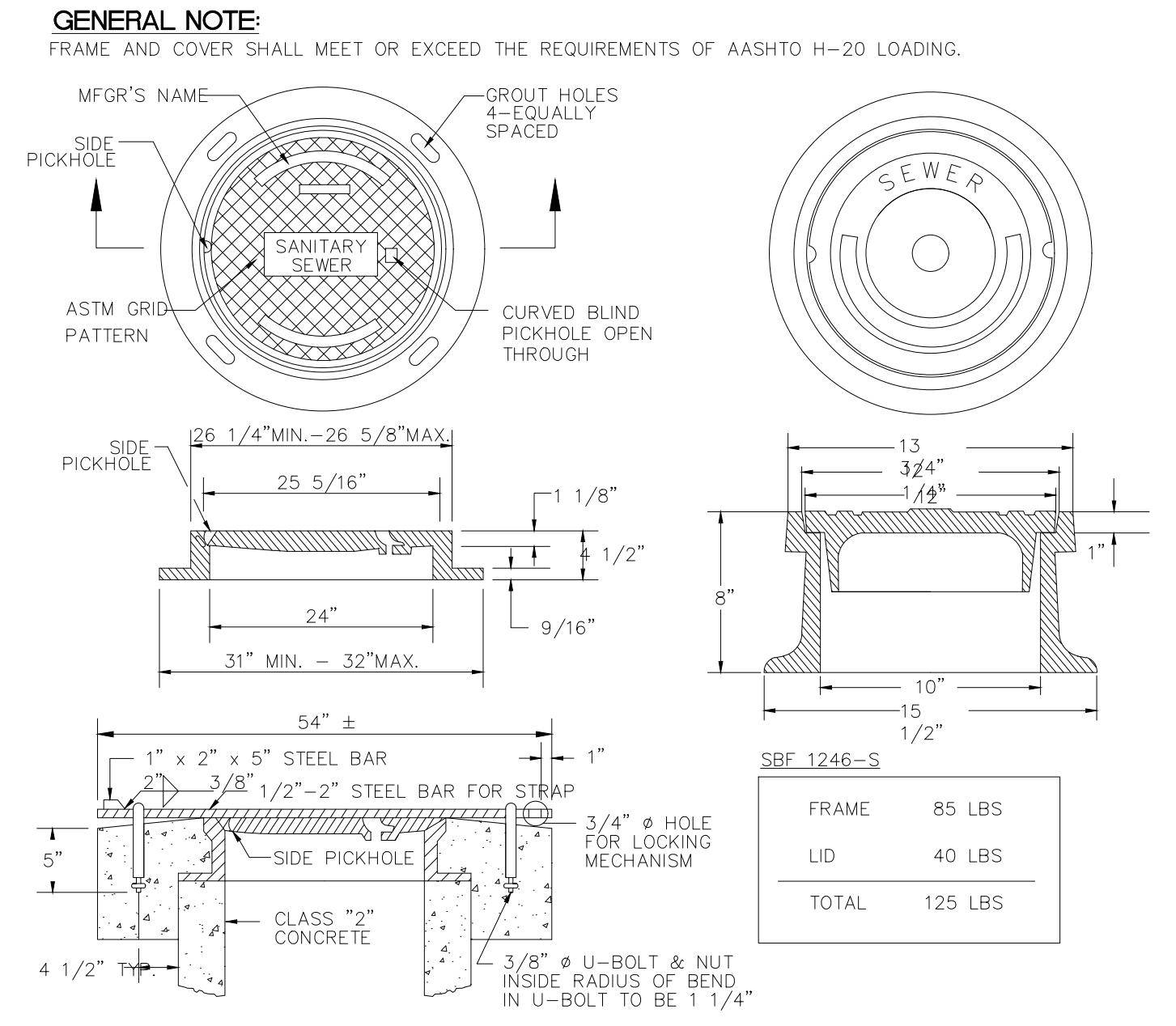
NOTES:
 1. FLUSHING INLETS ARE NO LONGER ALLOWED. NEW CONSTRUCTION SHOULD BE A MANHOLE.
 2. WORK ON AND AROUND EX. FLUSHING INLETS SHOULD BE ELIMINATED AND WHEN POSSIBLE CHANGE EXISTING FLUSHING INLETS TO A MANHOLE.
 3. RISER FOR FLUSHING INLETS SHALL BE DUCTILE IRON PIPE.
 4. FOR P.V.C. PIPE, LARGE 45° MANUFACTURED SWEEPS MAY BE USED IF R=36" OR GREATER

SANITARY SEWER FLUSHING INLET DETAIL
 C - 4



NOTES:
 1. ALL STEEL TO BE 3" CLEAR.
 2. LAY PIPE THRU M.H. WHEN POSSIBLE.
 3. M.H. SHELF SHALL BE MORTARED TO A SLOPE OF 2"/FT.
 4. THERE SHALL BE NO STEPS IN THE MANHOLE.
 5. PREFORMED PLASTIC SEALING GASKET SHALL BE "RAM-NEK" OR APPROVED EQUAL.
 6. IN THE EVENT PVC PIPES ARE APPROVED, STANDARD WATER STOPS SHALL BE INCORPORATED INTO THE MANHOLE BASE.
 7. MANHOLE THROAT LOCATION TO BE OPPOSITE THE LARGEST SHELF AREA OR AS DIRECTED BY THE ENGINEER.
 8. NO LATERAL CONNECTIONS TO HDPE MANHOLE.
 9. ANY VARIATION FROM DETAIL SHALL BE APPROVED BY THE ENGINEER.

SANITARY SEWER MANHOLE DETAIL
 NO SCALE
 SMC DETAIL C - 1



GENERAL INFORMATION:
 1. ALL MATERIALS USED SHALL CONFORM TO ASTM SPEC. A-159-701-G3000 OR U.S. GOV'T SPEC. 001-653.
 2. MANHOLE STRAP TO BE USED IN OFF ROAD SPECIFIED BY THE ENGINEER AREA WHERE SPECIFIED BY THE ENGINEER.
 3. U-BOLTS, NUT & STRAP SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.

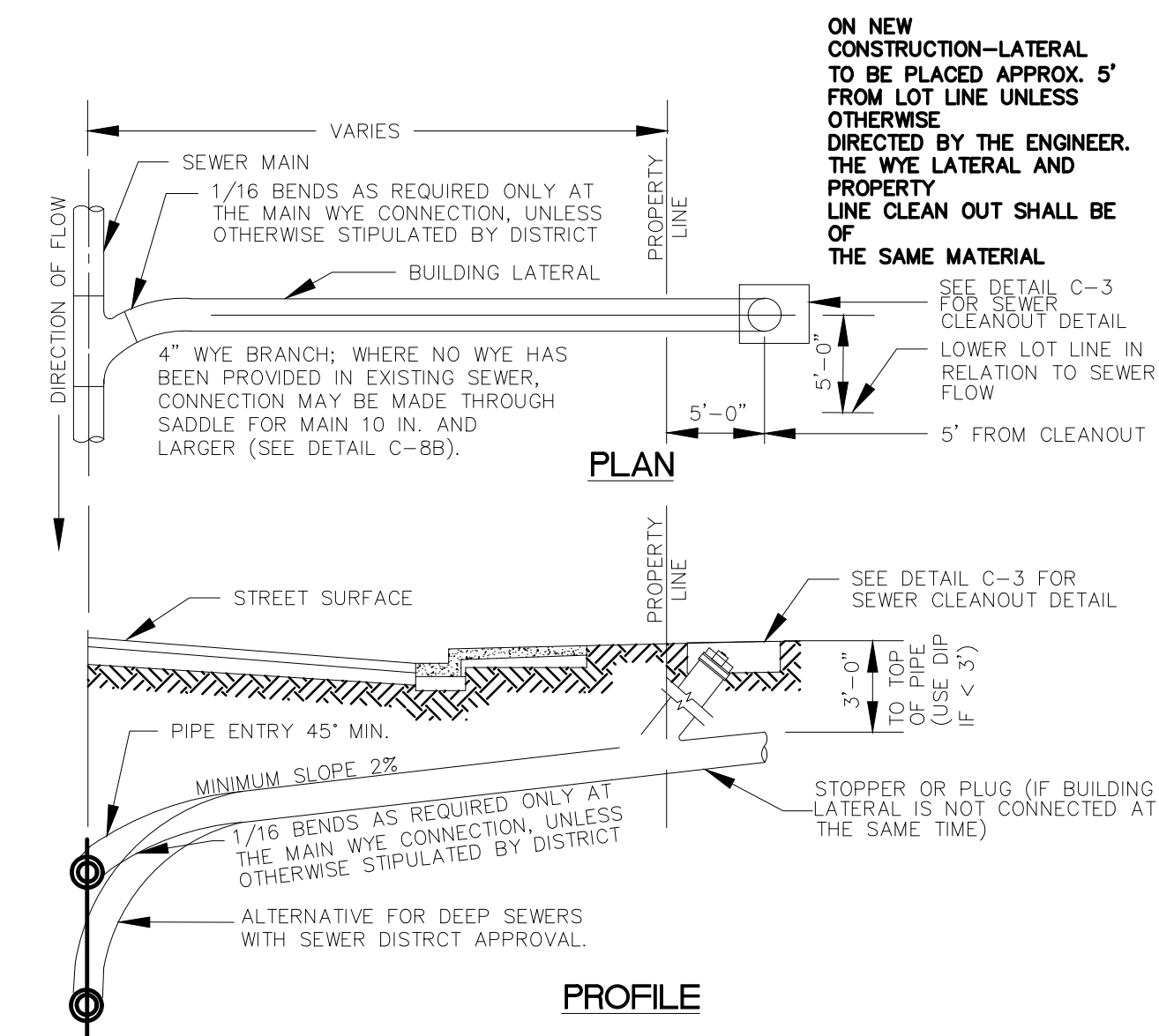
SANITARY SEWER MANHOLE COVER, FRAME AND STRAP DETAIL
 NO SCALE
 SMC DETAIL C - 2

SANITARY SEWER FLUSHING INLET COVER

SHEET NO.	MANHOLE NO.	LOCATION	REHABILITATE	OTHER
2	5353	NIMITZ AVE. @ WEST SELBY		REPLACE
2	5351	340 NIMITZ AVE.		REPLACE
2	6065	NIMITZ AVE. @ HIMMEL AVE.		REPLACE
2,3	5348	NIMITZ AVE. @ HIMMEL AVE.		REPLACE
3	5350A	1202 HIMMEL AVE.		INSTALL NEW
3	5350	HIMMEL AVE. @ ALEXANDER AVE.	X	
3	4641	HIMMEL AVE. @ RUTHERFORD AVE.	X	
4	4825	MILTON ST. @ SEQUOIA AVE.	X	
4	4834	1731 MILTON ST.	X	
4	4835	MILTON ST. @ WINSTON WY	X	
4,5	4836	MILTON ST. @ LA COUR WY	X	
5,6	4838	MILTON ST. @ SANTA CLARA AVE.	X	
6,7	4831	SANTA CLARA AVE. @ HULL AVE.	X	
7	4816	HULL AVE. @ RANDY CT.	X	
7,8	4858	HULL AVE. @ SANTIAGO AVE.	X	
8	4815	155 SANTIAGO AVE.	X	
8,9,10	4814	SANTIAGO AVE. @ WOODSIDE RD.	X	
9	4805	1855 WOODSIDE RD.		REPLACE SSFI*
10	4804A	WOODSIDE RD. @ SANTIAGO AVE.	X	INSTALL NEW
10	4804	1947 WOODSIDE RD.	X	
10,11	4851	WOODSIDE RD @ CERRITO AVE.	X	
11	4852	2055 WOODSIDE RD.	X	
12	4871	WOODSIDE RD. @ BONSEN CT.	X	
12,13	4873	WOODSIDE HIGH SCHOOL	X	
13	4798	WOODSIDE HIGH SCHOOL	X	
13,14	4948	WOODSIDE HIGH SCHOOL		REPLACE
14	4947	WOODSIDE HIGH SCHOOL	X	
14	4949	WOODSIDE RD. @ CHURCHILL AVE.	X	

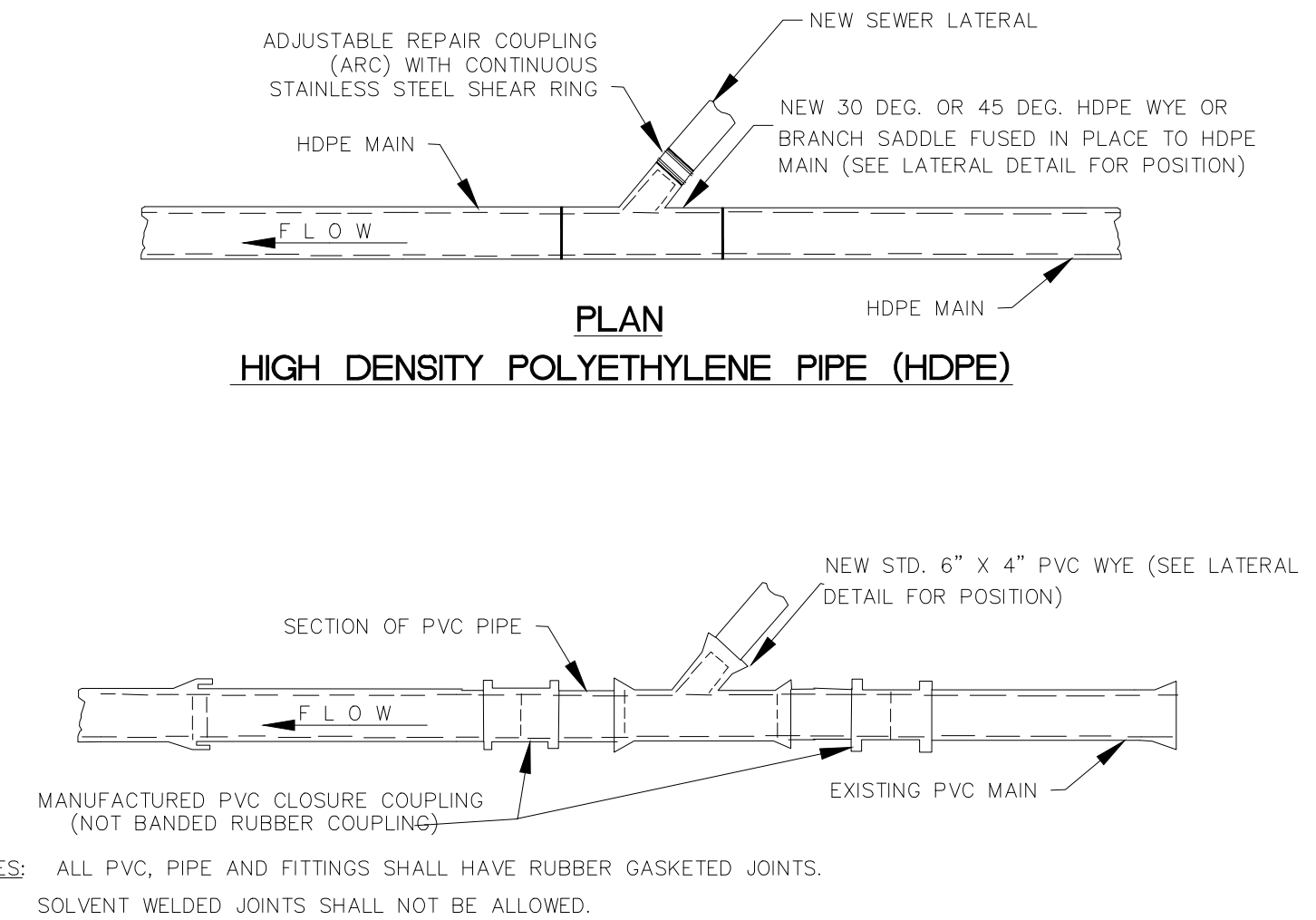
*NOTE: REPLACE SSFI 4805 WITH NEW SSMH IF DEPTH ALLOWS.

SANITARY SEWER LATERAL LOCATION LIST			
SHEET NO.	LATERAL NO.	ADDRESS	STATION
NIMITZ AVENUE			
2	1	312	5+11.5
2	2	320	5+01.3
2	3	330	4+26.7
2	4	334	3+80.6
2	5	340	3+20.5
2	6	346	2+89.7
2	7	350	1+86.1
2	8	362	1+60.5
2	9	368	0+72.5
HIMMEL AVENUE			
3	10	279 Rutherford	10+52.4
3	11	301 Rutherford	10+47.4
3	12	280 Alexander	9+69.1
3	13	1279	8+25.1
3	14	301 Alexander	8+19.0
3	15	304 Nimitz	7+21.2
MILTON STREET			
5	16	307 Santa Clara	31+98.6
5	17	271 Santa Clara	31+44.5
5	18	1775	31+14.3
5	19	1760	30+95.0
5	20	1752	30+10.3
4	21	1733	29+18.6
4	22	1733	28+80.4
4	23	1732	28+64.2
4	24	1726	28+12.3
4	25	1723	27+56.7
4	26	1720	27+29.3
4	27	1715	26+83.0
4	28	1712	26+78.1
4	29	1709	26+26.9
4	30	324 Sequoia	25+90.5
4	31	1709	25+82.6
SANTA CLARA AVENUE			
6	32	229	36+14.9
6	33	231	36+00.4
6	34	238	35+42.3
6	35	239	35+32.5
6	36	246	34+87.7
6	37	247	34+84.8
6	38	251	34+47.2
6	39	252	34+21.5
6	40	255	34+19.4
6	41	260	33+78.0
6	42	268	33+20.1
6	43	276	32+77.1
WOODSIDE ROAD			
11	78	2023	55+35.6
10	79	1963	51+59.7
10	80	1947	50+91.6
10	81	1931	50+21.7
10	82	1915	49+33.7
9	84	1887	47+64.4 W
9	85	1887	47+45.4 W
9	86	1887	47+04.5 W
9	87	1887	46+31.4 W
9	88	1855	45+48.5 W
12	89	150 Bonsen	63+84.7



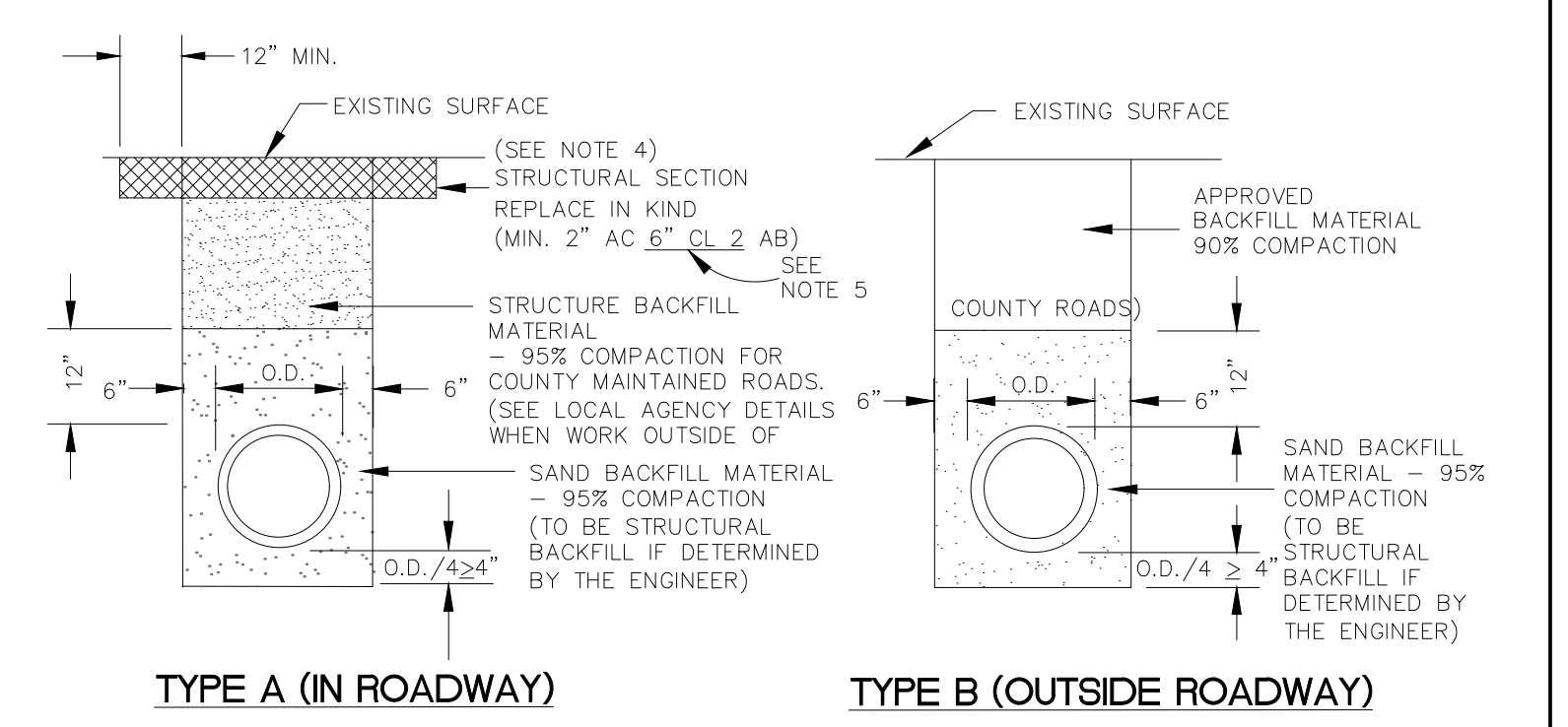
NOTES:
 1. BEDDING AND BACKFILL MATERIAL SEE DETAILS C-7.
 2. THE LATERAL SHALL BE LOWER WHERE NECESSARY TO SERVE EXISTING PLUMBING OR WHEN DIRECTED BY THE ENGINEER.
 3. A 4" LATERAL CAN BE USED FOR A SINGLE FAMILY RESIDENCE (SFR) OR A SFR WITH A SECOND UNIT. A MINIMUM 6" LATERAL SHALL BE USED FOR ALL OTHER DEVELOPMENTS.
 4. EXISTING MAIN ≤ 8": FOR MEANS BY WHICH CONNECTION IS TO BE MADE TO MAIN LINE SEE DETAIL C-8.
 5. EXISTING MAIN > 8": CONNECTION SHALL BE AT A MANHOLE UNLESS OTHERWISE APPROVED BY THE SEWER DISTRICT.
 6. SEE SHEETS C-15, C-16, C-16A FOR GENERAL NOTES.
 7. SDR-26 WYE, RISER, CLEANOUT BODY AND CAP CAN BE USED ONLY WHEN LATERAL FROM PROPERTY LINE TO MAIN LINE IS REPLACED WITH SDR-26.
 8. WHEN ENTIRE LATERAL IS REPLACED, LATERAL FROM PROPERTY LINE CLEANOUT TO MAIN LINE SHALL HAVE A SINGLE CONDUCTOR TRACER WIRE TAPED TO THE ENTIRE LENGTH OF THE PIPE.
 9. ADD TRACER WIRE FOR OPEN TRENCH EXCEPT ON DIP.
 10. FOR DIP LATERAL, MECHANICAL JOINTS/COUPLERS SHALL BE USED.

SEWER LATERAL DETAIL
 NO SCALE
 SMC DETAIL C - 5



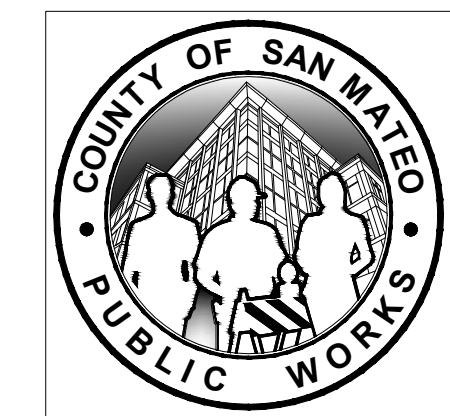
NOTES: ALL PVC PIPE AND FITTINGS SHALL HAVE RUBBER GASKETED JOINTS. SOLVENT WELDED JOINTS SHALL NOT BE ALLOWED.

LATERAL CONNECTION INSTALLATION DETAIL ON EXISTING PIPE
 C - 8



NOTES:
 1. SAND - MATERIAL FREE FROM ORGANIC MATTER AND CLAY WITH A SIEVE GRADATION BY WEIGHT AS FOLLOWS:
 SIEVE SIZE % PASSING SIEVE
 No. 4 100
 No. 200 0-5
 2. STRUCTURE BACKFILL MATERIAL - MATERIAL WITH SAND EQUIVALENT NOT LESS THAN 20 AND SIEVE GRADATION BY WEIGHT AS FOLLOWS:
 SIEVE SIZE % PASSING SIEVE
 3" 100
 No. 4 35-100
 No. 30 20-100
 3. BACKFILL MATERIAL - MATERIAL FROM EXCAVATION, FREE FROM STONES OR LUMPS EXCEEDING 3 INCHES GREATEST DIMENSION, ORGANIC MATTER, OR OTHER UNSATISFACTORY MATERIAL. CONTROLLED LOW STRENGTH MATERIALS (CLSM) MAY BE USED AS APPROVED BY THE ENGINEER.
 4. ON TRENCHES THAT PARALLEL THE ROAD AND ARE WITHIN EXISTING BICYCLE LANES, THE WIDTH OF THE STRUCTURAL SECTION SHALL BE GREATER THAN OR EQUAL TO THE WIDTH OF THE EXISTING BICYCLE LANE, WHICHEVER IS WIDER. PAVING JOINTS WITHIN THE BICYCLE LANE ARE NOT ALLOWED.
 5. RECYCLE AB MAY BE USED PER CALTRANS STD. SPECS SECTION 25 AND SECTION 26, AS BACKFILL MATERIAL.
 6. TRENCH BACKFILL DETAIL CAN ALSO BE USED FOR POTHoles GREATER THAN 4'x4'. ENGINEER APPROVED GROUT SHALL BE USED FOR BACKFILLING POTHoles LESS THAN 4'x4'.

STANDARD TRENCH BACKFILL AND BEDDING DETAIL FOR SEWER PIPE
 NO SCALE
 SMC DETAIL C - 7



REV. Δ	DESIGNED BY: MM	SANITARY SEWER REPLACEMENT PROJECT IN THE FAIR OAKS SEWER MAINTENANCE DISTRICT		SCALE: AS SHOWN
	CHECKED BY: AL/KL	MISCELLANEOUS DETAILS		DATE: 01/28/2022
	DRAWN BY: EPC			FILE NO.: 1/4692
REVISION	DATE	ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063	
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES				17 SHEET 17 OF 18

FILENAME: N:\DESIGN\LD0\4692000\DWG\2020\4692017.DWG (LAYOUT)

Figure 9C-9. Shared Lane Marking

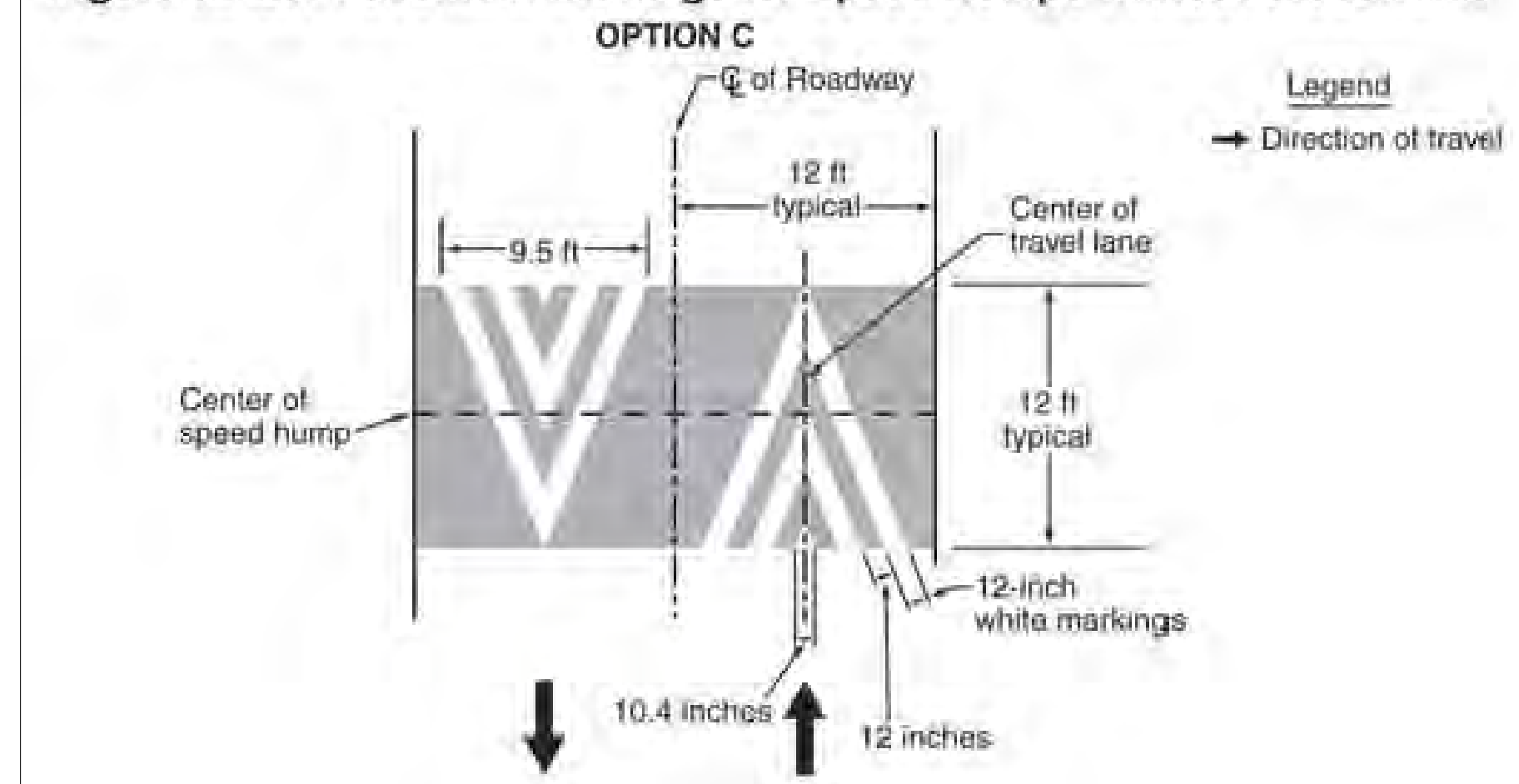


NOTE: SHARED LANE MARKING OR SHARROW TO BE INSTALLED IN CONFORMANCE WITH THE 2009 MUTCD SPECIFICATIONS

SHARROW MARKING DETAIL

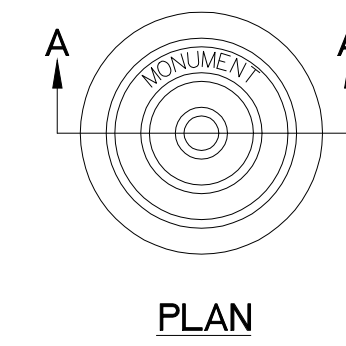
NO SCALE

Figure 3B-29. Pavement Markings for Speed Humps without Crosswalks



SPEED BUMP MARKING DETAIL

NO SCALE



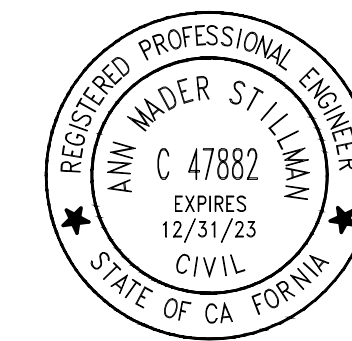
**STANDARD STRUCTURES
MONUMENT, FRAME AND COVER**

NO SCALE
(SMC DETAIL D-10)

***NOTES:**

- MONUMENT FRAME & COVER SHALL BE PHOENIX IRON WORKS P-2001-A WITH MONUMENT COVER OR APPROVED EQUAL.
- BRASS MARKER FURNISHED BY COUNTY; CONCRETE SHALL BE PACKED TIGHTLY AROUND STEM OF BRASS MARKER.
- 6" & 10" DIA. CYLINDERS TO BE FURNISHED BY CONTRACTOR.
- CONCRETE SHALL BE CLASS "A" (RODDED OR VIBRATED).
- MONUMENT CASTING SHALL BE HELD SECURELY IN PLACE (TO FINISH LINE & GRADE) PRIOR TO POURING THE UPPER 4-1/2 INCHES OF CONCRETE. (SUGGESTED METHOD: WIRE THE CASTING TO A 2" X 4" TIMBER 3 FEET LONG).
- MONUMENT CASTINGS SHALL BE INSTALLED AFTER THE FINAL SURFACE COURSE HAS BEEN COMPLETED.

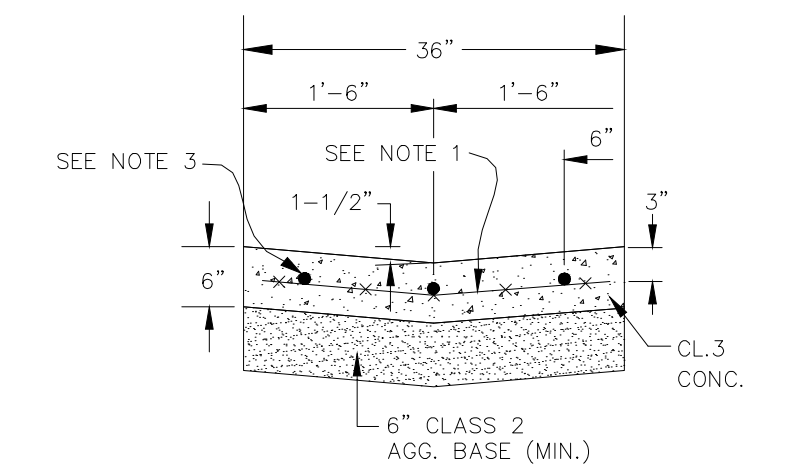
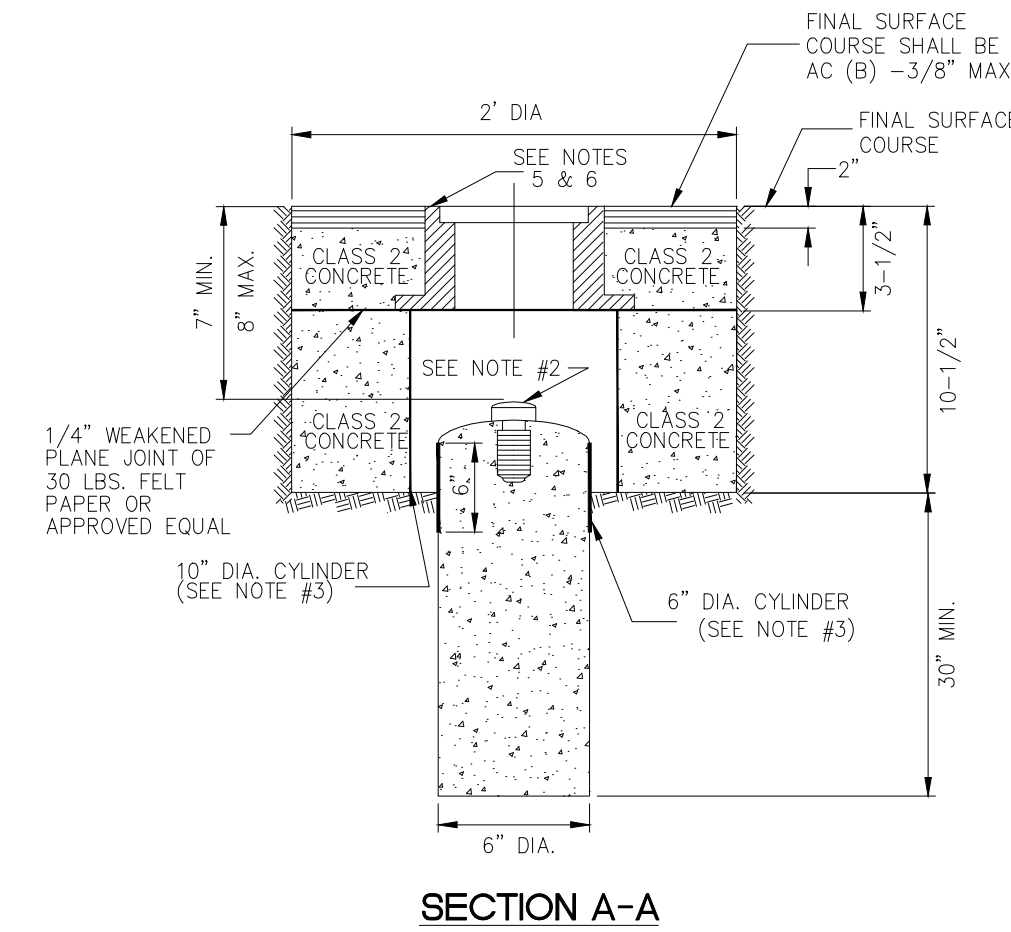
* FURNISHED BY PROJECT ENGINEER ON NON-COUNTY PROJECT.



APPROVED:

DATE: 01/28/2022

ANN MADER STILLMAN,
INTERIM DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023



CONCRETE VALLEY GUTTER

NO SCALE
(SMC DETAIL A-6H)

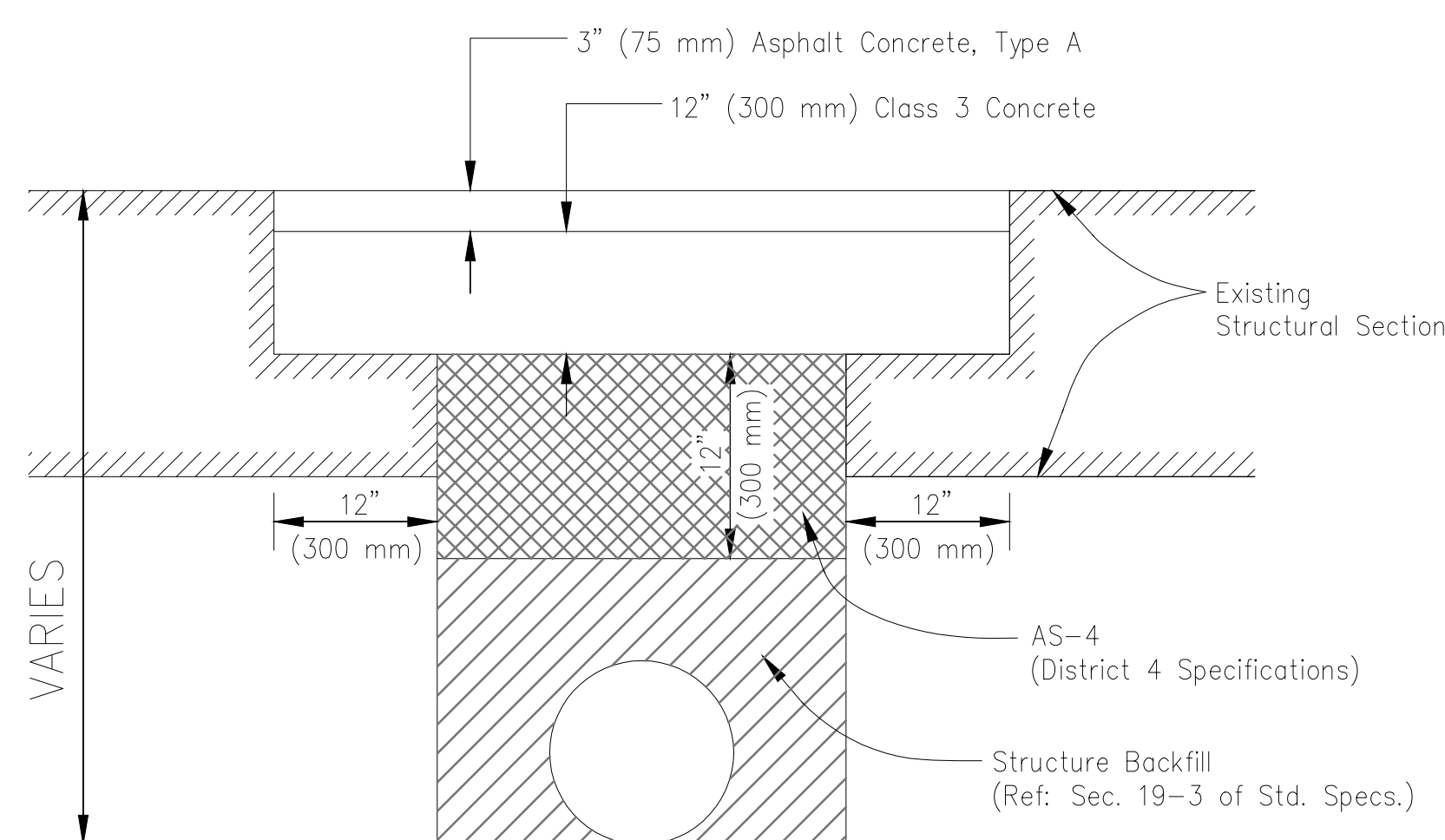
NOTES:

- REINFORCEMENT SHALL CONSIST OF 6" x 6" - #10 WELDED WIRE FABRIC.
- CONCRETE VALLEY GUTTER SHALL BE INSTALLED PRIOR TO PAVING, UNLESS ENGINEER APPROVES OTHERWISE.
- PLACE 1/2" DIAMETER x 18" LONG DOWELS, AT EXPANSION JOINTS, AS SHOWN.
- PLACE 1/4" THICK EXPANSION JOINTS FULL WIDTH 20' ON CENTER.
- SUB-BASE MATERIALS WITHIN 30" OF SUBGRADE SHALL BE COMPACTED TO 95% R.C.
- PLACE 1/4" DEEP SCORE FULL WIDTH 20' ON CENTER, BETWEEN EXPANSION JOINTS.

CALTRANS, REDWOOD CITY, AND S.F.P.U.C. DETAILS FOR WOODSIDE ROAD

**STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION DETAILS**

NO SCALE



NOTES:

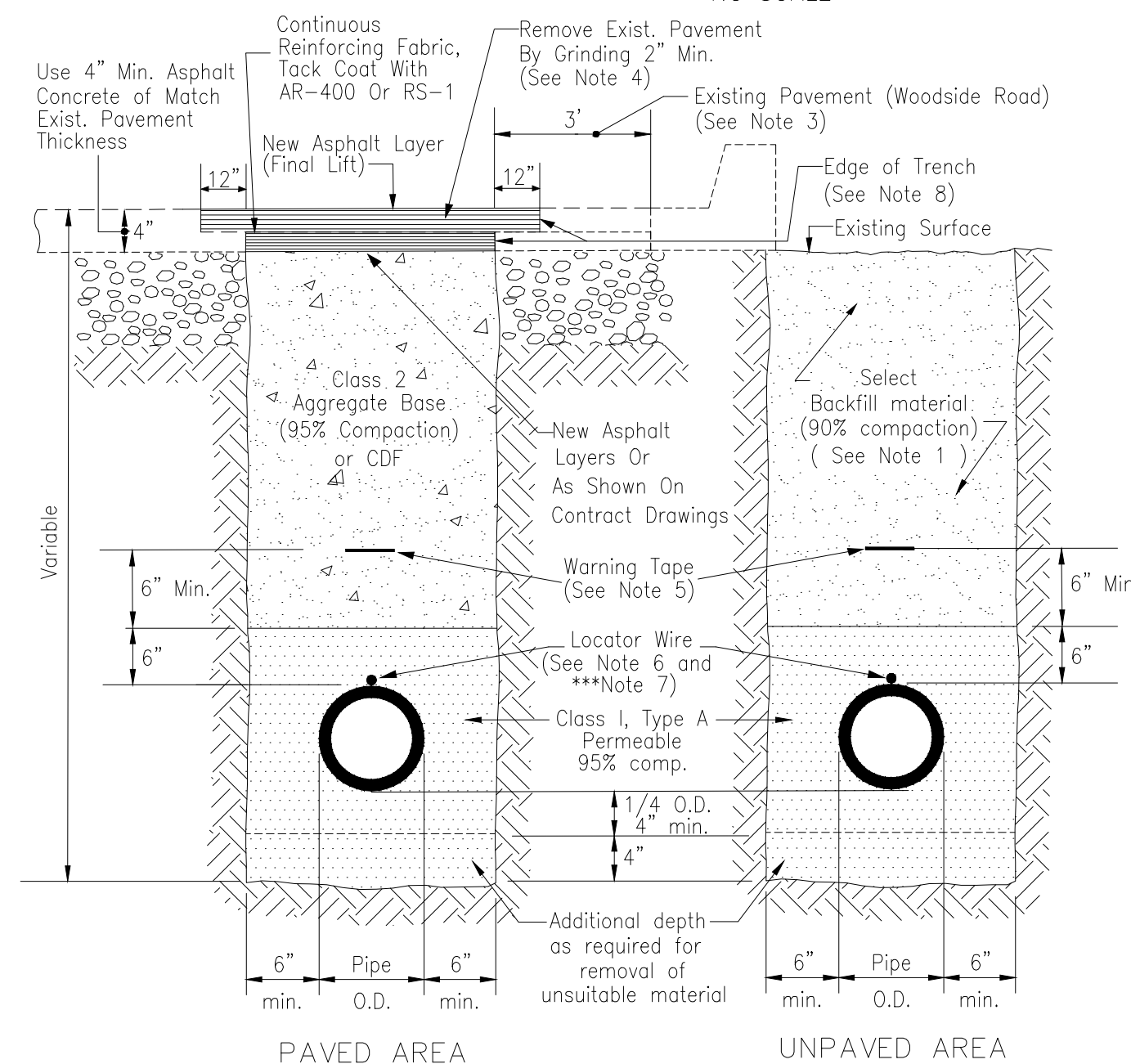
- Compaction to be at 95% relative compaction, subject to testing.
- Concrete cap may be "rapid" set Portland Cement Concrete.
- All trench work subject to State regulations and inspection.

STREET TRENCHING PAVING DETAIL

NO SCALE

CITY OF REDWOOD CITY DETAILS

NO SCALE



NOTES:

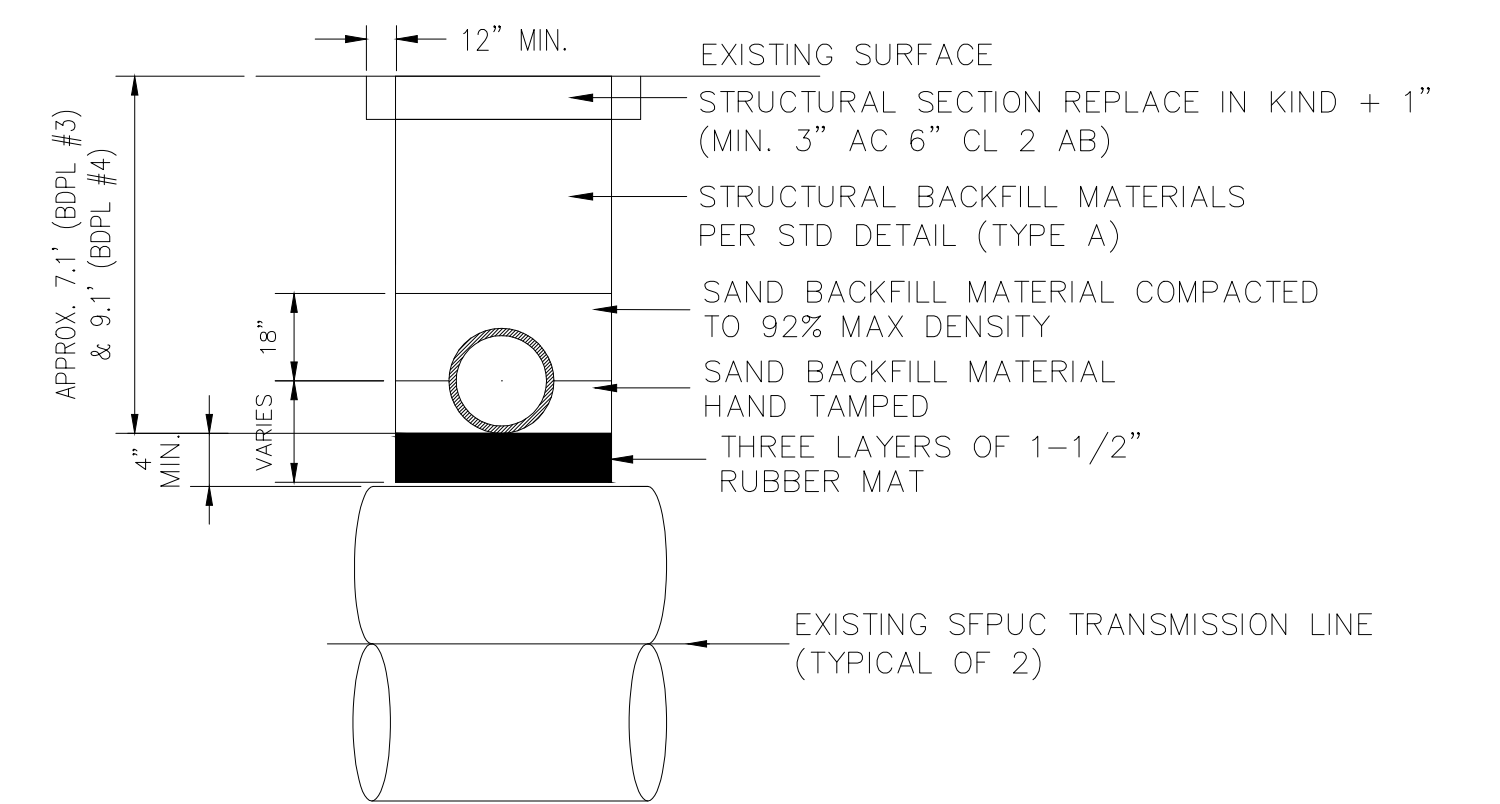
- Select backfill material - material from excavation, free from stones or lumps exceeding 3" in greatest dimension, vegetable matter, or unsatisfactory material. (See Specifications)
- For new streets use design structural section as shown on plans.
- If the edge of the trench falls within 3' of the gutter, the entire pavement shall be removed.
- If existing pavement is less than 3" thick, pavement edge shall be sawcut to full depth in lieu of grinding.
- Place Warning Tape 14" above pipe.
- Place locator wire at top of pipe. (For water pipes and sanitary sewer force main pipes only)
- **7. For new sanitary sewer and storm drain projects, locator wire is no longer needed.
- If in lieu of grinding, the T-trench is cut the full depth of the pavement then the edge of the T-trench shall be considered the new edge of trench.

**STANDARD DETAIL UT-1:
UTILITY TRENCH DETAIL**

NO SCALE

**SAN FRANCISCO PUC
WATER DEPARTMENT DETAILS**

NO SCALE



NOTES:

- USE DETAIL BETWEEN STA. 67+14 AND 67+90 (WOODSIDE ROAD)
- HAND DIG BELOW SPRINGLINE OF SEWER PIPE.
- HAND DIG WITHIN 2' ANY DIRECTION OF SFPUC TRANSMISSION LINES.
- FILL ANNULAR SPACE BETWEEN CASING AND NEW SS LINE WITH SLURRY.

TRENCH BACKFILL AND BEDDING DETAIL

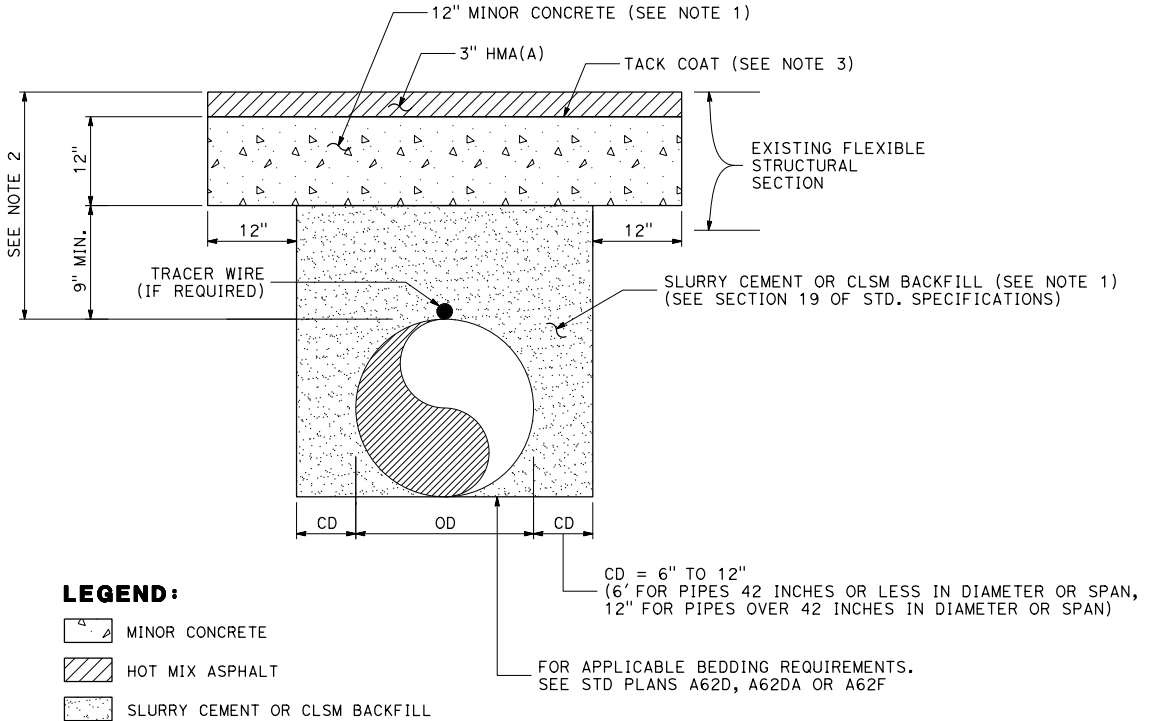
FOR SEWER PIPE OVER SFPUC WATER TRANSMISSION LINES
NO SCALE



REV. Δ	DESIGNED BY: MM	SANITARY SEWER REPLACEMENT PROJECT IN THE FAIR OAKS SEWER MAINTENANCE DISTRICT		SCALE: AS SHOWN
	CHECKED BY: AL/KL	MISCELLANEOUS DETAILS		DATE: 01/28/2022
	DRAWN BY: EPC/KL			FILE NO.: 1/4692
REVISION	DATE	ANN MADER STILLMAN, INTERIM DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY		555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES				18 SHEET 18 OF 18

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

HIGH GROUNDWATER CONDITIONS DO NOT EXIST WITHIN THE TRENCH



NOTES:

1. CONCRETE CAP MAY BE RAPID STRENGTH CONCRETE (RSC); IF RSC IS USED, REPLACE THE SLURRY CEMENT OR CLSM BACKFILL WITH LEAN CONCRETE BACKFILL OR RSC DEPENDING UPON THE PROJECT'S TIME CONSTRAINTS.
2. FOR NEW INSTALLATIONS, MINIMUM DEPTH OF COVER REQUIREMENTS ARE TO FOLLOW GUIDELINES IN THE ENCROACHMENT PERMITS MANUL OR HIGHWAY DESIGN MANUAL. WHEN COVER OVER A REPLACEMENT PIPE/ENCASEMENT PIPE IS LESS THAN 24", A SPECIAL DESIGN IS NECESSARY (FOR IN-HOUSE PROJECTS, REFER TO HQ DRAINAGE DETAIL LIBRARY).
3. TACK COAT (ASPHALTIC EMULSION) SHALL BE APPLIED PRIOR TO PLACING HMA(A).
4. ALL TRENCH WORK SUBJECT TO STATE REGULATIONS AND INSPECTION.
5. ALL MATERIALS, WORKMANSHIP, TESTING, AND INSPECTIONS SHALL COMPLY WITH CALTRANS STANDARD SPECIFICATIONS AND PROJECT-SPECIFIC SPECIAL PROVISIONS.
6. USE OF THIS DETAIL IS APPLICABLE IF HIGH GROUNDWATER CONDITIONS DO NOT EXIST WITHIN THE TRENCH.

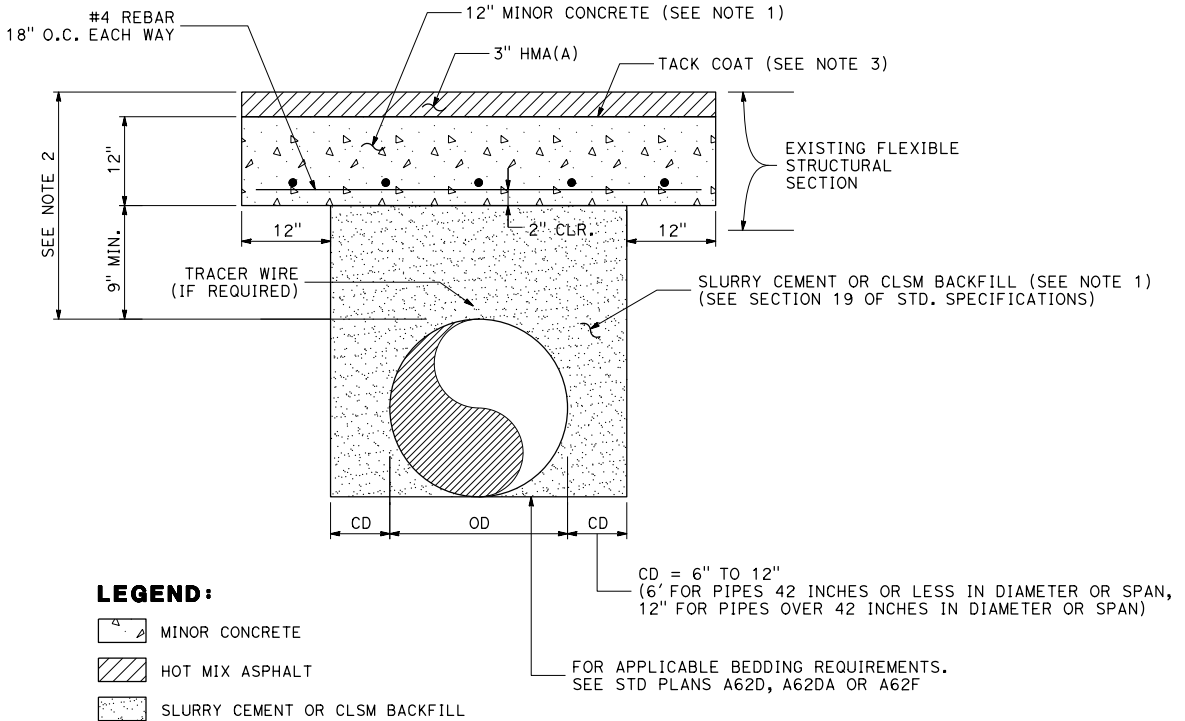
ABBREVIATIONS:

CD = CLEAR DISTANCE
 HMA(A) = HOT MIX ASPHALT TYPE A
 OD = OUTSIDE DIAMETER OF UTILITY OR CULVERT
 CLSM = CONTROLLED LOW-STRENGTH MATERIAL

REVISED 11/12/2019

CASE 2: FOR TRAFFIC INDEX (TI) GREATER THAN 12

HIGH GROUNDWATER CONDITIONS DO NOT EXIST WITHIN THE TRENCH



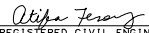
NOTES:

1. CONCRETE CAP MAY BE RAPID STRENGTH CONCRETE (RSC); IF RSC IS USED, REPLACE THE SLURRY CEMENT OR CLSM BACKFILL WITH LEAN CONCRETE BACKFILL OR RSC DEPENDING UPON THE PROJECT'S TIME CONSTRAINTS.
2. FOR NEW INSTALLATIONS, MINIMUM DEPTH OF COVER REQUIREMENTS ARE TO FOLLOW GUIDELINES IN THE ENCROACHMENT PERMITS MANUL OR HIGHWAY DESIGN MANUAL. WHEN COVER OVER A REPLACEMENT PIPE/ENCASEMENT PIPE IS LESS THAN 24", A SPECIAL DESIGN IS NECESSARY (FOR IN-HOUSE PROJECTS, REFER TO HQ DRAINAGE DETAIL LIBRARY).
3. TACK COAT (ASPHALTIC EMULSION) SHALL BE APPLIED PRIOR TO PLACING HMA(A).
4. ALL TRENCH WORK SUBJECT TO STATE REGULATIONS AND INSPECTION.
5. ALL MATERIALS, WORKMANSHIP, TESTING, AND INSPECTIONS SHALL COMPLY WITH CALTRANS STANDARD SPECIFICATIONS AND PROJECT-SPECIFIC SPECIAL PROVISIONS.
6. USE OF THIS DETAIL IS APPLICABLE IF HIGH GROUNDWATER CONDITIONS DO NOT EXIST WITHIN THE TRENCH.

ABBREVIATIONS:

CD = CLEAR DISTANCE
 HMA(A) = HOT MIX ASPHALT TYPE A
 OD = OUTSIDE DIAMETER OF UTILITY OR CULVERT
 CLSM = CONTROLLED LOW-STRENGTH MATERIAL
 CLR = CLEARANCE
 O.C.= ON CENTER

REVISED 11/12/2019

D16+	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
 REGISTERED CIVIL ENGINEER					
May 31, 2018 PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					

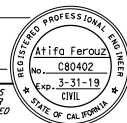


TABLE 1

SPEED (S)	MINIMUM TAPER LENGTH * FOR WIDTH OF OFFSET 12 FEET (W)				MAXIMUM CHANNELIZING DEVICE SPACING		
	TANGENT 2L	MERGING L	SHIFTING L/2	SHOULDER L/3	X	Y	Z **
					TAPER	TANGENT	CONFLICT
mph	ft	ft	ft	ft	ft	ft	ft
20	160	80	40	27	20	40	10
25	250	125	63	42	25	50	12
30	360	180	90	60	30	60	15
35	490	245	123	82	35	70	17
40	640	320	160	107	40	80	20
45	1080	540	270	180	45	90	22
50	1200	600	300	200	50	100	25
55	1320	660	330	220	50	100	25
60	1440	720	360	240	50	100	25
65	1560	780	390	260	50	100	25
70	1680	840	420	280	50	100	25
75	1800	900	450	300	50	100	25

* - For other offsets, use the following merging taper length formula for L:
 For speed of 40 mph or less, $L = WS^2/60$
 For speed of 45 mph or more, $L = WS$

Where: L = Taper length in feet
 W = Width of offset in feet

S = Posted speed limit, off-peak 85th-percentile
 speed prior to work starting, or the anticipated
 operating speed in mph

** - Use for taper and tangent sections where there are no pavement markings or where
 there is a conflict between existing pavement markings and channelizers (CA).

TABLE 2

SPEED *	Min D **	DOWNGRADE Min D ***		
		-3%	-6%	-9%
		ft	ft	ft
mph	ft	ft	ft	ft
20	115	116	120	126
25	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
55	495	520	553	593
60	570	598	638	686
65	645	682	728	785
70	730	771	825	891
75	820	866	927	1003

* - Speed is posted speed limit, off-peak 85th-percentile
 speed prior to work starting, or the anticipated
 operating speed in mph

** - Longitudinal buffer space or flagger station spacing

*** - Use on sustained downgrade steeper than -3 percent
 and longer than 1 mile.

TABLE 3

ROAD TYPE	DISTANCE BETWEEN SIGNS *		
	A	B	C
	ft	ft	ft
URBAN - 25 mph OR LESS	100	100	100
URBAN - MORE THAN 25 mph TO 40 mph	250	250	250
URBAN - MORE THAN 40 mph	350	350	350
RURAL	500	500	500
EXPRESSWAY / FREEWAY	1000	1500	2640

* - The distances are approximate, are intended for guidance
 purposes only, and should be applied with engineering judgment.
 These distances should be adjusted by the Engineer for field
 conditions, if necessary, by increasing or decreasing the
 recommended distances.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM TABLES
 FOR LANE AND RAMP CLOSURES**

NO SCALE

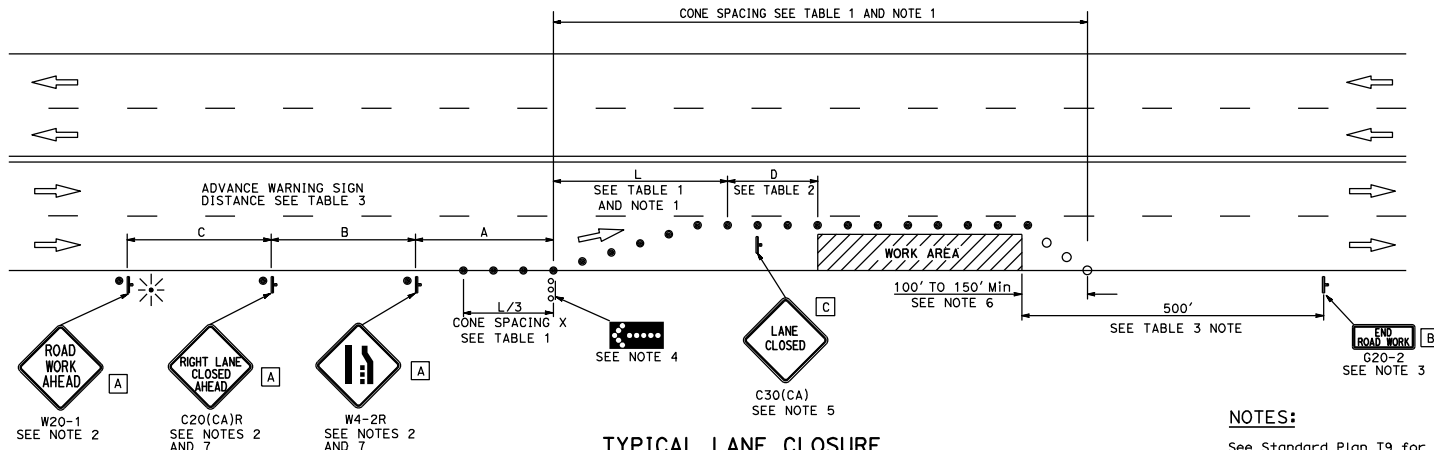
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

Atifa Ferouz
REGISTERED CIVIL ENGINEER

May 31, 2018
PLANS APPROVAL DATE

Atifa Ferouz
No. C80402
Exp. 3-31-19
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



TYPICAL LANE CLOSURE

NOTES:

- See Standard Plan T9 for tables.
- Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.
- Provide at least one person to continuously maintain traffic control devices for lane closures.

LEGEND

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- † TEMPORARY TRAFFIC CONTROL SIGN
- ⬢ FLASHING ARROW SIGN (FAS)
- ⬢ FAS SUPPORT OR TRAILER
- ☀ PORTABLE FLASHING BEACON

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 36" x 18"
- C 30" x 30"

NOTES:

- Portable delineators placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
- Each advance warning sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A G20-2 "END ROAD WORK" sign shall be placed at the end of the lane closure unless the end of work area is obvious or ends within the larger project's limits.
- A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.
- Place C30(CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work area.
- Length may be reduced by the Engineer to address site conditions.
- Median lane closures shall conform to the details shown except that C20(CA)L and W4-2L signs shall be used.
- For approach speeds over 50 MPH, use the "Traffic Control System for Lane Closure on Freeways and Expressways" plan for lane closure details and requirements.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
FOR LANE CLOSURE ON
MULTILANE CONVENTIONAL
HIGHWAYS**
NO SCALE

T11

NOTES:

1. Only signs related to pedestrians are shown. For all other signs see appropriate T-sheets.
2. Barricades closing sidewalk shall cover the full width of the sidewalk. Use R9-11 sign when there are destination points between the detour and the work area. Locate the R9-11 sign to allow pedestrian access.
3. Advance warning sign is not required if the work area is within the limits of a larger work zone. Sign shall be equipped with at least two flags for daytime closure. Each flag shall be orange or fluorescent red-orange in color.

NOTES:

See Standard Plan T9 for tables.
 Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1 unless X,Y, or Z cone spacing is shown on this sheet.

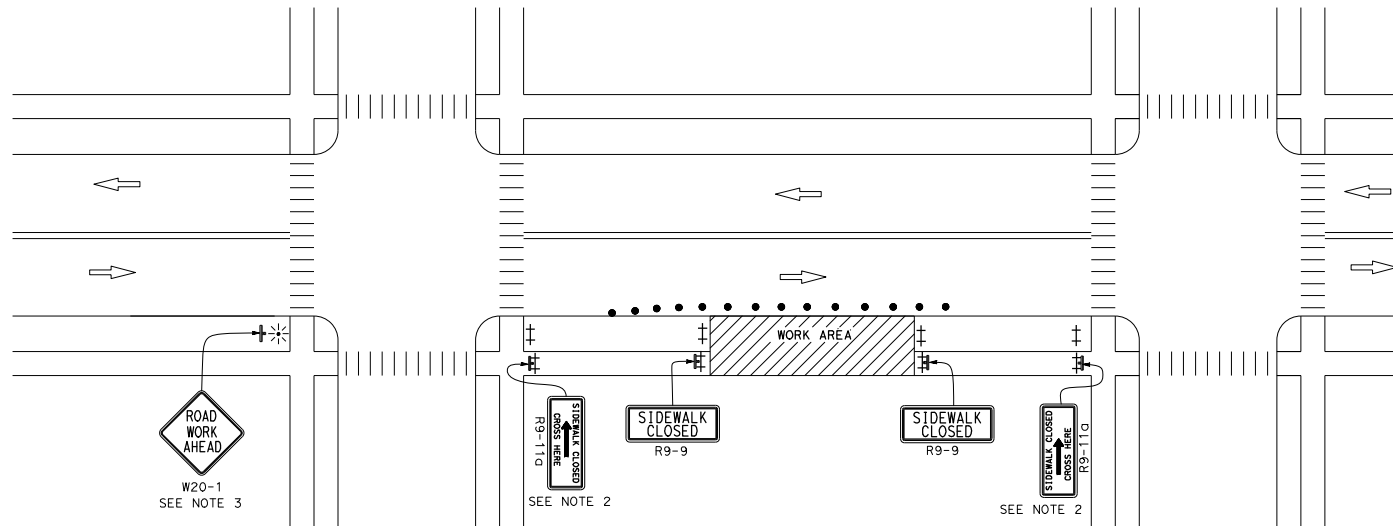
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

Atifa Ferouz
 REGISTERED CIVIL ENGINEER

May 31, 2018
 PLANS APPROVAL DATE

Atifa Ferouz
 No. C80402
 Exp. 3-31-19
 CIVIL
 STATE OF CALIFORNIA

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LEGEND:

- ⊥ BARRICADE
- TRAFFIC CONE
- ✱ PORTABLE FLASHING BEACON
- ⊥ SIGN
- ⊥ TEMPORARY TRAFFIC CONTROL SIGN ON BARRICADE

SIGN PANEL SIZE (Min)

SIGN DESIGNATION	SIGN OR PLAQUE	SIGN SIZE
R9-9	SIDEWALK CLOSED	24" x 12"
R9-11	SIDEWALK CLOSED AHEAD CROSS HERE	24" x 18"
R9-11a	SIDEWALK CLOSED CROSS HERE	24" x 12"
W20-1	ROAD WORK AHEAD	36" x 36"

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TEMPORARY PEDESTRIAN ACCESS ROUTES
 TYPICAL SIDEWALK CLOSURE
 AND PEDESTRIAN DETOUR**

NO SCALE

T30

NOTES:

1. Only signs related to pedestrians are shown. For all other signs see appropriate T-sheets.
2. Separate pedestrian walkway from traffic and work zone activities, when temporary walkway is adjacent to traffic.
3. The temporary pedestrian access route must not lead into conflict with vehicles or work.
4. Advance warning sign is not required if the work area is within the limits of a larger work zone. Sign shall be equipped with at least two flags for daytime closure. Each flag shall be orange or fluorescent red-orange in color.
5. All devices used to channelize pedestrian flow must connect such that gaps do not allow pedestrians to stray from the channelized path.
6. Barricades closing sidewalk shall cover the full width of the sidewalk.
7. Separate the temporary pedestrian access route from traffic using a temporary barrier and a crash cushion if necessary.
8. When it is not possible to maintain a minimum of 60 inches throughout the length of the pedestrian route, maintain a minimum width of 48 inches and provide a 60 X 60-inch passing space at least every 200 feet.
9. See Standard Plan A88A for detectable warning surface for curb ramps to apply to temporary curb ramps.
10. See Standard Plan T34 for temporary curb ramp options.

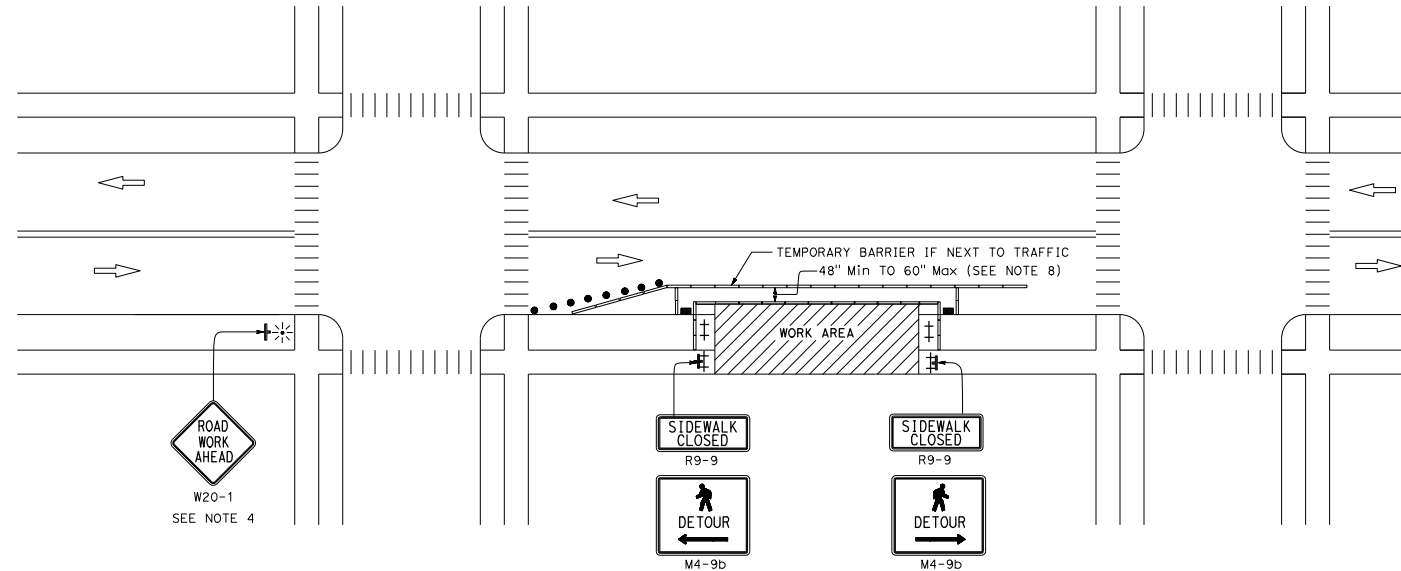
NOTES:

See Standard Plan T9 for tables.
 Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1 unless X, Y, or Z cone spacing is shown on this sheet.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

Atifa Ferouz
 REGISTERED CIVIL ENGINEER
 No. C80402
 Exp. 3-31-19
 CIVIL
 STATE OF CALIFORNIA

May 31, 2018
 PLANS APPROVAL DATE
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LEGEND:

- ⊥ BARRICADE
- TEMPORARY CURB RAMP
- ▭ CHANNELIZING DEVICE
- TRAFFIC CONE
- ⊛ PORTABLE FLASHING BEACON
- ⊥ TEMPORARY TRAFFIC CONTROL SIGN
- ⊥ TEMPORARY TRAFFIC CONTROL SIGN ON BARRICADE

SIGN PANEL SIZE (Min)

SIGN DESIGNATION	SIGN OR PLAQUE	SIGN SIZE
M4-9b	PEDESTRIAN DETOUR	30" x 24"
R9-9	SIDEWALK CLOSED	24" x 12"
W20-1	ROAD WORK AHEAD	36" x 36"

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
TEMPORARY PEDESTRIAN ACCESS ROUTES
TYPICAL SIDEWALK DIVERSION WITHIN ROADBED
 NO SCALE

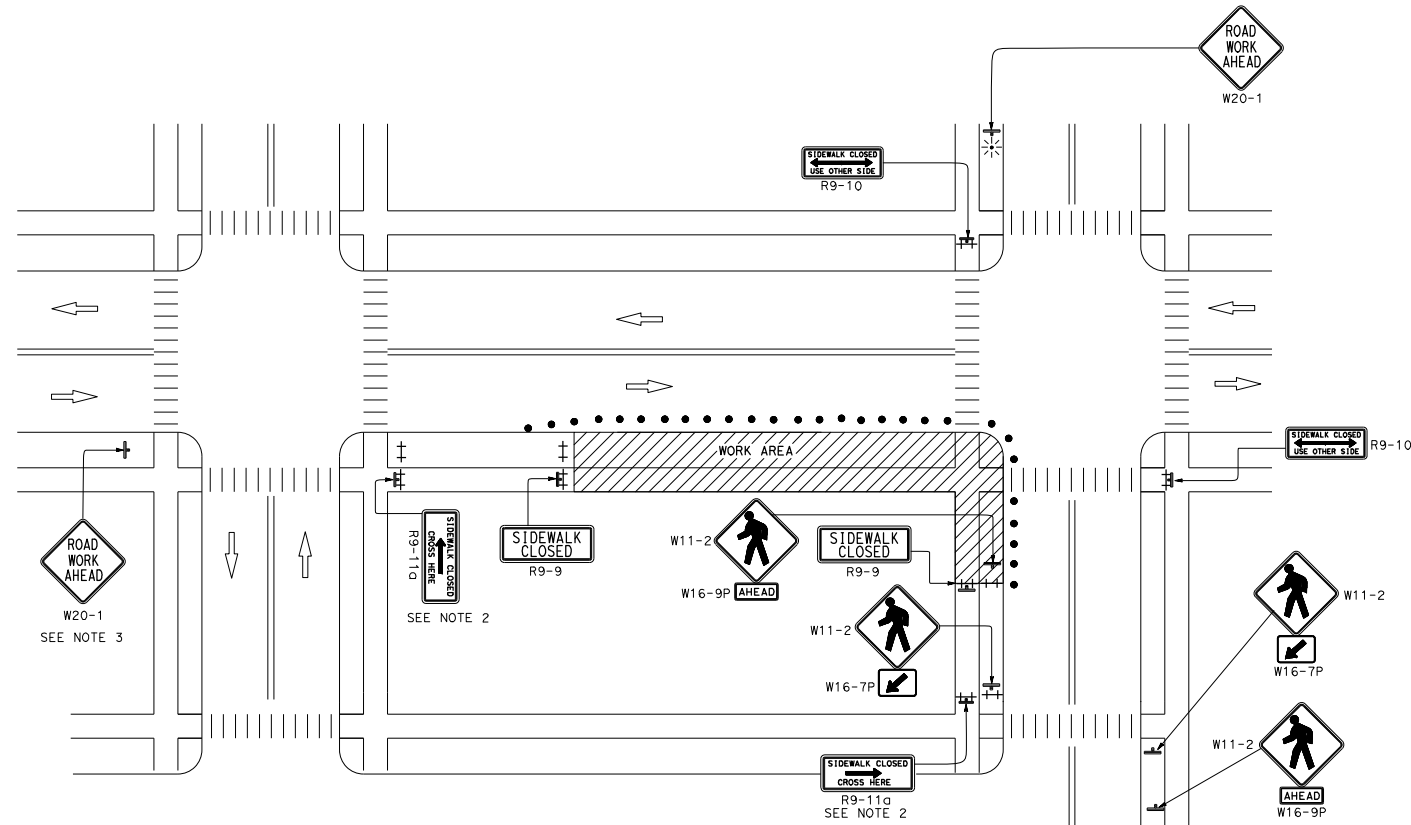
T31

NOTES:

1. Only signs related to pedestrians are shown. For all other signs see appropriate T-sheets.
2. Barricades closing sidewalk shall cover the full width of the sidewalk. Use R9-11 sign when there are destination points between the detour and the work area. Locate the R9-11 sign to allow pedestrian access.
3. Advance warning sign is not required if the work area is within the limits of a larger work zone. Sign shall be equipped with at least two flags for daytime closure. Each flag shall be orange or fluorescent red-orange in color.

NOTES:

See Standard Plan T9 for tables.
 Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1 unless X, Y, or Z cone spacing is shown on this sheet.



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL SHEETS

Atifa Ferouz
 REGISTERED CIVIL ENGINEER
 No. C80402
 Exp. 3-31-19
 CIVIL
 STATE OF CALIFORNIA

May 31, 2018
 PLANS APPROVAL DATE
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LEGEND:

- † BARRICADE
- TRAFFIC CONE
- ⊛ PORTABLE FLASHING BEACON
- ⊥ TEMPORARY TRAFFIC CONTROL SIGN
- ⊥ TEMPORARY TRAFFIC CONTROL SIGN ON BARRICADE

SIGN PANEL SIZE (Min)

SIGN DESIGNATION	SIGN OR PLAQUE	SIGN SIZE
R9-9	SIDEWALK CLOSED	24" x 12"
R9-10	SIDEWALK CLOSED USE OTHER SIDE	24" x 12"
R9-11	SIDEWALK CLOSED AHEAD CROSS HERE	24" x 18"
R9-11a	SIDEWALK CLOSED CROSS HERE	24" x 12"
W11-2	PEDESTRIAN	36" x 36"
W16-7P	DIAGONAL DOWNWARD POINTING ARROW (PLAQUE)	24" x 12"
W16-9P	AHEAD (PLAQUE)	24" x 12"
W20-1	ROAD WORK AHEAD	36" x 36"

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TEMPORARY PEDESTRIAN ACCESS ROUTES
 TYPICAL SIDEWALK/CROSSWALK CLOSURE
 AND PEDESTRIAN DETOUR**
 NO SCALE

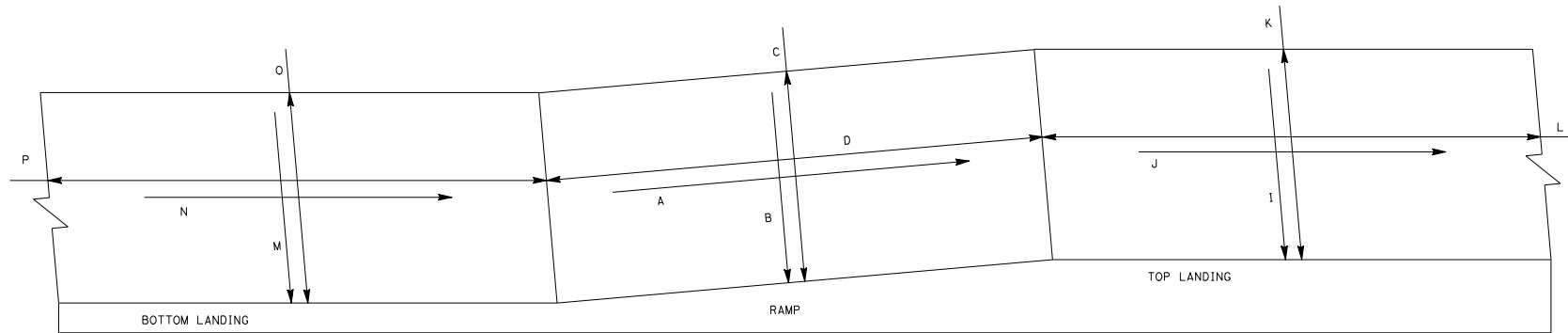
T32

RAMP				HAND RAIL		EDGE PROTECTION	
SLOPE	CROSS SLOPE	WIDTH	LENGTH	HEIGHT RIGHT SIDE	HEIGHT LEFT SIDE	RAIL RIGHT SIDE	RAIL LEFT SIDE
A	B	C	D	E	F	G	H
8.3% OR LESS	2.0% OR LESS	48 INCHES OR GREATER	30 FEET OR LESS	34 TO 38 INCHES	34 TO 38 INCHES	WITHIN 2 INCHES FROM GROUND	WITHIN 2 INCHES FROM GROUND
TOP LANDING				BOTTOM LANDING			
CROSS SLOPE	SLOPE	WIDTH	DEPTH	CROSS SLOPE	SLOPE	WIDTH	DEPTH
I	J	K	L	M	N	O	P
2.0% OR LESS	2.0% OR LESS	48 INCHES OR GREATER	60 INCHES OR GREATER	2.0% OR LESS	2.0% OR LESS	48 INCHES OR GREATER	60 INCHES OR GREATER

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

Atifa Ferouz
 REGISTERED CIVIL ENGINEER
 No. C80402
 EXP. 3-31-19
 CIVIL
 STATE OF CALIFORNIA

May 31, 2018
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TEMPORARY PEDESTRIAN
 ACCESS ROUTES**
RAMP
 NO SCALE

T33

300

CURB RAMP			TOP LANDING				DETECTABLE WARNING SURFACE
SLOPE	CROSS SLOPE	WIDTH	CROSS SLOPE	SLOPE	WIDTH	DEPTH	DEPTH
A	B	C	D	E	F	G	K
8.3% OR LESS	2.0% OR LESS	48 INCHES OR GREATER	2.0% OR LESS	2.0% OR LESS	48 INCHES OR GREATER	60 INCHES OR GREATER	MINIMUM 36 INCHES

NOTES: If the above requirements cannot be met, on existing sites with space limitations, the following slopes are allowed:
 For a maximum rise of 6 inches a slope between 1:12 to 1:10 is allowed.
 For a maximum rise of 3 inches a slope between 1:10 to 1:8 is allowed.

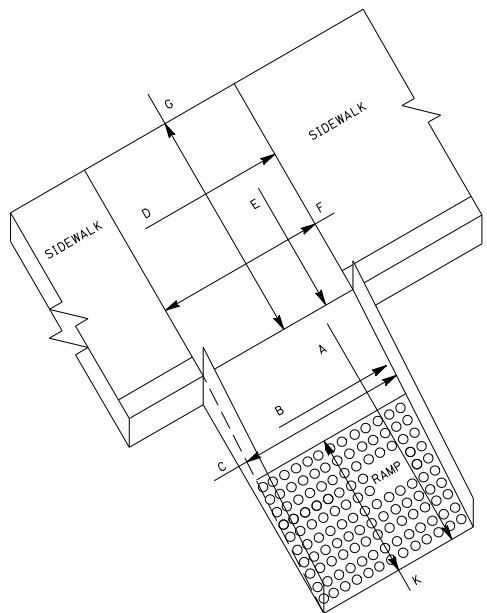
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

Atifa Ferouz
 REGISTERED CIVIL ENGINEER

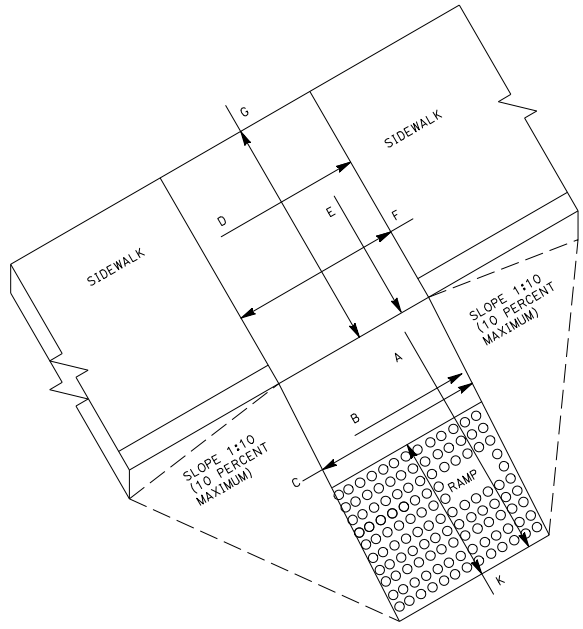
May 31, 2018
 PLANS APPROVAL DATE

Atifa Ferouz
 No. C80402
 Exp. 3-31-19
 CIVIL ENGINEER
 STATE OF CALIFORNIA

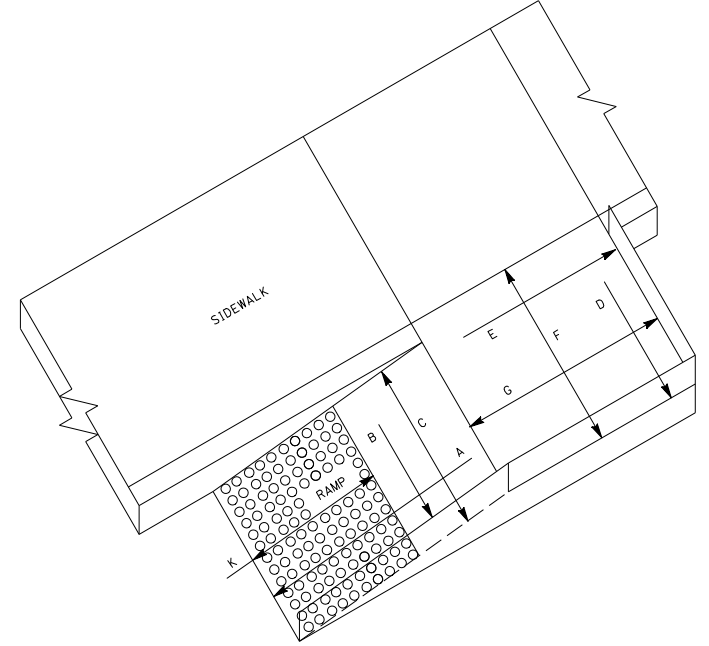
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



OPTION A
 SHOWN WITH SIDE EDGE



OPTION B
 SHOWN WITH SIDE APRON



OPTION C
 PARALLEL RAMP
 SHOWN WITH SIDE EDGE

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

**TEMPORARY PEDESTRIAN
 ACCESS ROUTES
 CURB RAMP OPTIONS**

NO SCALE

T34

2018 STANDARD PLAN T34

1-22-18

[Return to Table of Contents](#)

ENCROACHMENT PERMIT GENERAL PROVISIONS

TR – 0045 (REV. 04/2021)

1. **AUTHORITY:** The California Department of Transportation (“Department”) has authority to issue encroachment permits under Division 1, Chapter 3, Article 1, Sections 660 through 734 of the Streets and Highways Code.
2. **REVOCACTION:** Encroachment permits are revocable on five (5) business days’ notice unless otherwise stated on the permit and except as provided by law for public corporations, franchise holders, and utilities. Notwithstanding the foregoing, in an emergency situation as determined by the Department, an encroachment permit may be revoked immediately. These General Provisions and any applicable Special Provisions are subject to modification or abrogation by the Department at any time. Permittees’ joint use agreements, franchise rights, reserved rights or any other agreements for operating purposes in State of California (“State”) highway right-of-way may be exceptions to this revocation.
3. **DENIAL FOR NONPAYMENT OF FEES:** Failure to pay encroachment permit fees when due may result in rejection of future applications and denial of encroachment permits.
4. **ASSIGNMENT:** This encroachment permit allows only the Permittee or Permittee’s authorized agent to work within or encroach upon the State highway right-of-way, and the Permittee may not assign or transfer this encroachment permit. Any attempt to assign or transfer this encroachment permit shall be null and void.
5. **ACCEPTANCE OF PROVISIONS:** Permittee understands and agrees to accept and comply with these General Provisions, the Special Provisions, any and all terms and/or conditions contained in or incorporated into the encroachment permit, and all attachments to the encroachment permit (collectively “the Permit Conditions”), for any encroachment, work, and/or activity to be performed under this encroachment permit and/or under color of authority of this encroachment permit. Permittee understands and agrees the Permit Conditions are applicable to and enforceable against Permittee as long as the encroachment remains in, under, or over any part of the State highway right-of-way.
6. **BEGINNING OF WORK:** When traffic is not impacted (see General Provision Number 35), the Permittee must notify the Department’s representative two (2) business days before starting permitted work. Permittee must notify the Department’s representative if the work is to be interrupted for a period of five (5) business days or more, unless otherwise agreed upon. All work must be performed on weekdays during regular work hours, excluding holidays, unless otherwise specified in this encroachment permit.
7. **STANDARDS OF CONSTRUCTION:** All work performed within State highway right-of-way must conform to all applicable Departmental construction standards including but not limited to: Standard Specifications, Standard Plans, Project Development Procedures Manual, Highway Design Manual and Special Provisions.
Other than as expressly provided by these General Provisions, the Special Provisions, the Standard Specifications, Standard Plans, and other applicable Departmental standards, nothing in these General Provisions is intended to give any third party any legal or equitable right, remedy, or claim with respect to the encroachment permit and/or to these General Provisions or any provision herein. These General Provisions are for the sole and exclusive benefit of the Permittee and the Department.
Where reference is made in such standards to “Contractor” and “Engineer,” these are amended to be read as “Permittee” and “Department’s representative,” respectively, for purposes of this encroachment permit.
8. **PLAN CHANGES:** Deviations from plans, specifications, and/or the Permit Conditions as defined in General Provision Number 5 are not allowed without prior approval from the Department’s representative and the Federal Highway Administration (“FHWA”) representative if applicable.
9. **RIGHT OF ENTRY, INSPECTION AND APPROVAL:** All work is subject to monitoring and inspection. The United States, the State, the Department, and the Directors, officers, employees, agents, and/or contractors of the State and/or of the Department, and other state, and federal agencies, and the FHWA, through their agents or representatives, must have full access to highway facilities/encroachment area, at any and all times for the purpose of inspection, maintenance, activities needed for construction/reconstruction, and operation of the State highway right-of-way.
Upon completion of work, Permittee must request a final inspection for acceptance and approval by the Department. The local public agency Permittee must not give final construction approval to its contractor until final acceptance and approval by the Department is obtained.
10. **PERMIT AT WORKSITE:** Permittee must keep the permit package or a copy thereof at the work site at all times and must show it upon request to any Department representative or law enforcement officer. If the permit package, or a copy thereof, is not kept and made available at the work site at all times, the work must be suspended.
11. **CONFLICTING ENCROACHMENTS:** Permittee must yield start of work to ongoing, prior authorized work adjacent to or within the limits of the Permittee’s project site. When existing encroachments conflict with Permittee’s work, the Permittee must bear all cost for rearrangements (e.g., relocation, alteration, removal, etc.).

ENCROACHMENT PERMIT GENERAL PROVISIONS

- 12. PERMITS AND APPROVALS FROM OTHER PUBLIC AGENCIES AND/OR ENTITIES:** This encroachment permit is invalidated if the Permittee has not obtained all permits and approvals necessary and required by law, including but not limited to permits from the California Public Utilities Commission (“CPUC”), California Occupational Safety and Health Administration (“Cal-OSHA”), and any other public agency and/or entity having jurisdiction. Permittee warrants all such permits and approvals have been obtained before beginning work under this encroachment permit. The Department may, at the Department’s discretion, require the Permittee to demonstrate that Permittee has obtained all such permits/approvals, and Permittee shall demonstrate this at the time and in the manner specified by the Department.
- 13. PEDESTRIAN AND BICYCLIST SAFETY:** A safe continuous passageway must be maintained through the work area at existing pedestrian or bicycle facilities. At no time must pedestrians be diverted onto a portion of the street used for vehicular traffic. At locations where safe alternate passageways cannot be provided, appropriate signs and barricades must be installed at the limits of construction and in advance of the limits of construction at the nearest crosswalk or intersection to detour pedestrians to facilities across the street. Attention is directed to Section 7-1.04 “Public Safety,” and to Section 12-4.04 “Temporary Pedestrian Access Routes,” and to Section 16-2.02 “Temporary Pedestrian Facility,” of the Department’s Standard Specifications, and to California Vehicle Code section 21760, subdivision (c).
- 14. PUBLIC TRAFFIC CONTROL:** The Permittee must provide traffic control protection, warning signs, lights, safety devices, etc., and take all other measures necessary for the traveling public’s safety as required by law and/or the Department. While providing traffic control, the needs of all road users, including but not limited to motorists, bicyclists and pedestrians, including persons with disabilities in accordance with the Americans with Disabilities Act, must be an essential part of the work activity.
- Lane, Bike Lane, Sidewalk, Crosswalk, and/or shoulder closures must comply with the Department’s Standard Specifications and Standard Plans for Temporary Traffic Control Systems & Temporary Pedestrian Access Routes, and with the applicable Special Provisions. Where issues are not addressed in the Standard Specifications, Standard Plans, and/or Special Provisions, the California Manual on Uniform Traffic Control Devices (Part 6, Temporary Traffic Control) must be followed.
- 15. MINIMUM INTERFERENCE WITH TRAFFIC:** Permittee must plan and conduct work so as to create the least possible inconvenience to the traveling public (motorized vehicles, unmotorized vehicles such as bicycles, pedestrians, person(s) with disabilities, etc.), such that traffic is not unreasonably delayed.
- 16. STORAGE OF EQUIPMENT AND MATERIALS:** The storage of equipment or materials is not allowed within State highway right-of-way, unless specified within the Special Provisions of this encroachment permit. If encroachment permit Special Provisions allow for the storage of equipment or materials within the State highway right-of-way, the equipment and material storage must also comply with Section 7-1.04, Public Safety, of the Department’s Standard Specifications.
- 17. CARE OF DRAINAGE:** Permittee must provide alternate drainage for any work interfering with an existing drainage facility in compliance with the Department’s Standard Specifications, Standard Plans, and/or as directed by the Department’s representative.
- 18. RESTORATION AND REPAIRS IN STATE HIGHWAY RIGHT-OF-WAY:** Permittee is responsible for restoration and repair of State highway right-of-way resulting from permitted work (Streets and Highways Code, section 670 et seq.).
- 19. STATE HIGHWAY RIGHT-OF-WAY CLEAN UP:** Upon completion of work, Permittee must remove and dispose of all scraps, refuse, brush, timber, materials, etc. off the State highway right-of-way. The aesthetics of the highway must be as it was before work started or better.
- 20. COST OF WORK:** Unless stated otherwise in the encroachment permit or a separate written agreement with the Department, the Permittee must bear all costs incurred for work within the State highway right-of-way and waives all claims for indemnification or contribution from the United States, the State, the Department, and from the Directors, officers, and employees of the State and/or the Department. Removal of Permittee’s personal property and improvements shall be at no cost to the United States, the State, and the Department.
- 21. ACTUAL COST BILLING:** When specified in the permit, the Department will bill the Permittee actual costs at the currently set Standard Hourly Rate for encroachment permits.
- 22. AS-BUILT PLANS:** When required, Permittee must submit one (1) set of folded as-built plans within thirty (30) calendar days after completion and acceptance of work in compliance with requirements listed as follows:
- Upon completion of the work provided herein, the Permittee must submit a paper set of As-Built plans to the Department’s representative.
 - All changes in the work will be shown on the plans, as issued with the permit, including changes approved by Encroachment Permit Rider.
 - The plans are to be prominently stamped or otherwise noted “AS-BUILT” by the Permittee’s representative who was responsible for overseeing the work. Any original plan that was approved with a Department stamp, or by signature of the Department’s representative, must be used for producing the As-Built plans.
 - If construction plans include signing or striping, the dates of signing or striping removal, relocation, or installation must be shown on the As-Built plans when required as a condition of the encroachment permit. When the construction plans show signing and striping for staged construction on separate sheets,

ENCROACHMENT PERMIT GENERAL PROVISIONS

- the sheet for each stage must show the removal, relocation, and installation dates of the appropriate staged striping and signing.
- e) As-Built plans must contain the Encroachment Permit Number, County, Route, and Post Mile on each sheet.
 - f) The As-Built Plans must not include a disclaimer statement of any kind that differs from the obligations and protections provided by sections 6735 through 6735.6 of the California Business and Professions Code. Such statements constitute non-compliance with Encroachment Permit requirements and may result in the Department retaining Performance Bonds or deposits until proper plans are submitted. Failure to comply may also result in denial of future encroachment permits or a provision requiring a public agency to supply additional bonding.
23. **PERMITS FOR RECORD PURPOSES ONLY:** When work in the State highway right-of-way is within an area under a Joint Use Agreement (JUA) or a Consent to Common Use Agreement (CCUA), a fee exempt encroachment permit is issued to the Permittee for the purpose of providing a notice and record of work. The Permittee's prior rights must be preserved without the intention of creating new or different rights or obligations. "Notice and Record Purposes Only" must be stamped across the face of the encroachment permit.
24. **BONDING:** The Permittee must file bond(s), in advance, in the amount(s) set by the Department and using forms acceptable to the Department. The bonds must name the Department as obligee. Failure to maintain bond(s) in full force and effect will result in the Department stopping all work under this encroachment permit and possibly revoking other encroachment permit(s). Bonds are not required of public corporations or privately-owned utilities unless Permittee failed to comply with the provisions and/or conditions of a prior encroachment permit. The surety company is responsible for any latent defects as provided in California Code of Civil Procedure section 337.15. A local public agency Permittee also must comply with the following requirements:
- a) In recognition that project construction work done on State property will not be directly funded and paid by State, for the purpose of protecting stop notice claimants and the interests of State relative to successful project completion, the local public agency Permittee agrees to require the construction contractor to furnish both a payment and performance bond in the local public agency's name with both bonds complying with the requirements set forth in Section 3-1.05 Contract Bonds of the Department's Standard Specifications before performing any project construction work.
 - b) The local public agency Permittee must defend, indemnify, and hold harmless the United States, the State and the Department, and the Directors, officers, and employees of the State and/or Department, from all project construction related claims by contractors, subcontractors, and suppliers, and from all stop notice and/or mechanic's lien claimants. The local public agency also agrees to remedy, in a timely manner and to the Department's satisfaction, any latent defects occurring as a result of the project construction work.
25. **FUTURE MOVING OF INSTALLATIONS:** Permittee understands and agrees to relocate a permitted installation upon notice by the Department. Unless under prior property right or agreement, the Permittee must comply with said notice at the Permittee's sole expense.
26. **ENVIRONMENTAL:**
- a) **ARCHAEOLOGICAL/HISTORICAL:** If any archaeological or historical resources are identified or encountered in the work vicinity, the Permittee must immediately stop work, notify the Department's representative, retain a qualified archaeologist who must evaluate the site at Permittee's sole expense, and make recommendations to the Department's representative regarding the continuance of work.
 - b) **HAZARDOUS MATERIALS:** If any hazardous waste or materials (such as underground storage tanks, asbestos pipes, contaminated soil, etc.) are identified or encountered in the work vicinity, the Permittee must immediately stop work, notify the Department's representative, retain a qualified hazardous waste/material specialist who must evaluate the site at the Permittee's sole expense, and make recommendations to the Department's representative regarding the continuance of work. Attention is directed to potential aerially deposited lead (ADL) presence in unpaved areas along highways. It is the Permittee's responsibility to take all appropriate measures to protect workers in conformance with California Code of Regulations Title 8, Section 1532.1, "Lead," and with Cal-OSHA Construction Safety Orders, and to ensure roadway soil management is in compliance with Department of Toxic Substances Control (DTSC) requirements.
 - c) **Biological:** If any regional, state, or federally listed biological resource is identified or encountered in the work vicinity, the Permittee must immediately stop work, notify the Department's representative, retain a qualified biologist who must evaluate the site at Permittee's sole expense, and make recommendations to the Department's representative regarding the continuance of work.
27. **PREVAILING WAGES:** Work performed by or under an encroachment permit may require Permittee's contractors and subcontractors to pay appropriate prevailing wages as set by the California Department of Industrial Relations. Inquiries or requests for interpretations relative to enforcement of prevailing wage requirements must be directed to the California Department of Industrial Relations.
28. **LIABILITY, DEFENSE, AND INDEMNITY:** The Permittee agrees to indemnify and save harmless the United States, the State, the Department, and the Directors, officers, employees, agents and/or contractors of the State and/or of the Department, including but not limited to the Director

ENCROACHMENT PERMIT GENERAL PROVISIONS

of Transportation and the Deputy Directors, from any and all claims, demands, damages, costs, liability, suits, or actions of every name, kind, and description, including but not limited to those brought for or on account of property damage, invasion of privacy, violation or deprivation of a right under a state or federal law, environmental damage or penalty, or injury to or death of any person including but not limited to members of the public, the Permittee, persons employed by the Permittee, and/or persons acting on behalf of the Permittee, arising out of or in connection with: (a) the issuance and/or use of this encroachment permit; and/or (b) the encroachment, work, and/or activity conducted pursuant to this encroachment permit, or under color of authority of this encroachment permit but not in full compliance with the Permit Conditions as defined in General Provision Number 5 (“Unauthorized Work or Activity”); and/or (c) the installation, placement, design, existence, operation, and/or maintenance of the encroachment, work, and/or activity; and/or (d) the failure by the Permittee or anyone acting on behalf of the Permittee to perform the Permittee’s obligations under any part of the Permit Conditions as defined in General Provision Number 5, in respect to maintenance or any other obligation; and/or (e) any change to the Department’s property or adjacent property, including but not limited to the features or conditions of either of them, made by the Permittee or anyone acting on behalf of the Permittee; and/or (f) a defect or obstruction related to or caused by the encroachment, work, and/or activity whether conducted in compliance with the Permit Conditions as defined in General Provision Number 5 or constituting Unauthorized Work or Activity, or from any cause whatsoever. The duty of the Permittee to indemnify and save harmless includes the duties to defend as set forth in Section 2778 of the Civil Code.

It is the intent of the parties that except as prohibited by law, the Permittee will defend, indemnify, and hold harmless as set forth in this General Provision Number 28 regardless of the existence or degree of fault or negligence, whether active or passive, primary or secondary, on the part of: the United States, the State; the Department; the Directors, officers, employees, agents and/or contractors of the State and/or of the Department, including but not limited to the Director of Transportation and the Deputy Directors; the Permittee; persons employed by the Permittee; and/or persons acting on behalf of the Permittee.

The Permittee waives any and all rights to any type of expressed or implied indemnity from or against the United States, the State, the Department, and the Directors, officers, employees, agents, and/or contractors of the State and/or of the Department, including but not limited to the Director of Transportation and the Deputy Directors.

The Permittee understands and agrees to comply with the obligations of Titles II and III of the Americans with Disabilities Act in the conduct of the encroachment, work, and/or activity whether conducted pursuant to this encroachment permit or constituting Unauthorized Work

or Activity, and further agrees to defend, indemnify, and save harmless the United States, the State, the Department, and the Directors, officers, employees, agents, and/or contractors of the State and/or of the Department, including but not limited to the Director of Transportation and the Deputy Directors, from any and all claims, demands, damages, costs, penalties, liability, suits, or actions of every name, kind, and description arising out of or by virtue of the Americans with Disabilities Act.

The Permittee understands and agrees the Directors, officers, employees, agents, and/or contractors of the State and/or of the Department, including but not limited to the Director of Transportation and the Deputy Directors, are not personally responsible for any liability arising from or by virtue of this encroachment permit.

For the purpose of this General Provision Number 28 and all paragraphs herein, “contractors of the State and/or of the Department” includes contractors, and their subcontractors, under contract to the State and/or the Department.

This General Provision Number 28 and all paragraphs herein take effect immediately upon issuance of this encroachment permit, and apply before, during, and after the encroachment, work, and/or activity contemplated under this encroachment permit, whether such work is in compliance with the Permit Conditions as defined in General Provision Number 5 or constitutes Unauthorized Work or Activity, except as otherwise provided by California law. The Permittee’s obligations to defend, indemnify, and save harmless under this General Provision Number 28 take effect immediately upon issuance of this encroachment permit and have no expiration date, including but not limited to situations in which this encroachment permit expires or is revoked, the work or activity performed under this encroachment permit is accepted or not accepted by the Department, the encroachment, work, and/or activity is conducted in compliance with the Permit Conditions as defined in General Provision Number 5 or constitutes Unauthorized Work or Activity, and/or no work or activity is undertaken by the Permittee or by others on the Permittee’s behalf.

If the United States or an agency, department, or board of the United States is the Permittee, the first two paragraphs of this General Provision Number 28 (beginning “The Permittee agrees to indemnify...” and “It is the intent of the parties...”) are replaced by the following paragraph:

Claims for personal injury, death, or property damage allegedly caused by the negligent or wrongful act or omission of any employee of the United States acting within the scope of their official duties are subject to the Federal Tort Claims Act, as amended, 28 U.S.C. § 1346 and § 2671 et seq. (Chapter 171).

29. **NO PRECEDENT ESTABLISHED:** This encroachment permit is issued with the understanding that it does not establish a precedent.
30. **FEDERAL CIVIL RIGHTS REQUIREMENTS FOR PUBLIC ACCOMMODATION:**

ENCROACHMENT PERMIT GENERAL PROVISIONS

- a) As part of the consideration for being issued this encroachment permit, the Permittee, on behalf of Permittee and on behalf of Permittee's personal representatives, successors in interest, and assigns, does hereby covenant and agree that:
- i) No person on the grounds of race, color, or national origin may be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination in the use of said facilities.
 - ii) That in connection with the construction of any improvements on said lands and the furnishings of services thereon, no discrimination must be practiced in the selection and retention of first-tier subcontractors in the selection of second-tier subcontractors.
 - iii) That such discrimination must not be practiced against the public in their access to and use of the facilities and services provided for public accommodations (such as eating, sleeping, rest, recreation), and operation on, over, or under the space of the State highway right-of-way.
 - iv) That the Permittee must use the premises in compliance with all other requirements imposed pursuant to Title 15, Code of Federal Regulations, Commerce and Foreign Trade, Subtitle A. Office of the Secretary of Commerce, Part 8 (15 C.F.R. Part 8) and as said Regulations may be amended.
- b) That in the event of breach of any of the above nondiscrimination covenants, the State and the Department have the right to terminate this encroachment permit and to re-enter and repossess said land and the facilities thereon and hold the same as if said permit had never been made or issued.
31. **MAINTENANCE:** The Permittee is responsible at Permittee's sole expense for the encroachment, and the inspection, maintenance, repair, and condition thereof, so that it does not negatively impact State highway safety, maintenance, operations, construction, activities needed for construction/reconstruction, State facilities, or other encroachments. Additional permits or approval documents may be required authorizing additional work related to inspection, repair, and/or maintenance activities.
32. **SPECIAL EVENTS:** In accordance with subdivision (a) of Streets and Highways Code section 682.5 and 682.7, the Department is not responsible for the conduct or operation of the permitted activity, and the applicant agrees to defend, indemnify, and hold harmless the United States, the State, the Department, and the Directors, officers, employees, agents, and contractors of the State and/or of the Department, including but not limited to the Director of Transportation and the Deputy Directors, from any and all claims, demands, damages, costs, liability, suits, or actions of every name, kind and description arising out of any activity for which this encroachment permit is issued.
- The Permittee is required, as a condition of this encroachment permit, for any event that awards prize compensation to competitors in gendered categories, for any participant level that receives prize compensation, to ensure the prize compensation for each gendered category is identical at each participant level. (Streets and Highways Code, section 682.7.)
- The Permittee understands and agrees to comply with the obligations of Titles II and III of the Americans with Disabilities Act in the conduct of the event, and further agrees to defend, indemnify, and save harmless the United State, the State and the Department, and the Directors, officers, and employees of the State and/or Department, including but not limited to the Director of the Department and the Deputy Directors, from any and all claims, demands, damages, costs, liability, suits, or actions of every name, kind and description arising out of or by virtue of the Americans with Disabilities Act.
33. **PRIVATE USE OF STATE HIGHWAY RIGHT-OF-WAY:** State highway right-of-way must not be used for private purposes without compensation to the State. The gifting of public property uses and therefore public funds is prohibited under the California Constitution, Article XVI, Section 6.
34. **FIELD WORK REIMBURSEMENT:** Permittee must reimburse the Department for field work performed on Permittee's behalf to correct or remedy hazards or damaged facilities, or to clear refuse, debris, etc. not attended to by the Permittee.
35. **LANE CLOSURE REQUEST SUBMITTALS AND NOTIFICATION OF CLOSURES TO THE DEPARTMENT:** Lane closure request submittals and notifications must be in accordance with Section 12-4.02, and Section 12.4-04, of the Department's Standard Specifications or as directed by the Department's representative. The Permittee must notify the Department's representative and the Traffic Management Center ("TMC") before initiating a lane closure or conducting an activity that may cause a traffic impact. In emergency situations when the corrective work or the emergency itself may affect traffic, the Department's representative and the TMC must be notified as soon as possible.
36. **SUSPENSION OF TRAFFIC CONTROL OPERATION:** The Permittee, upon notification by the Department's representative, must immediately suspend all traffic lane, bike lane, sidewalk, crosswalk, and/or shoulder closure operations and any operation that impedes the flow of traffic. All costs associated with this suspension must be borne by the Permittee.
37. **UNDERGROUND SERVICE ALERT (USA) NOTIFICATION:** Any excavation requires compliance with the provisions of Government Code section 4216 et seq., including but not limited to notice to a regional notification center, such as Underground Service Alert (USA). The Permittee must provide notification to the Department representative at least five (5) business days before, and the regional notification center at least forty-

ENCROACHMENT PERMIT GENERAL PROVISIONS

eight (48) hours before, performing any excavation work within the State highway right-of-way.

38. **COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA):** All work within the State highway right-of-way to construct and/or maintain any public facility must be designed, maintained, and constructed strictly in accordance with all applicable Federal Access laws and regulations (including but not limited to Section 504 of the Rehabilitation Act of 1973, codified at 29 U.S.C. § 794), California Access laws and regulations relating to ADA, along with its implementing regulations, Title 28 of the Code of Federal Regulations Parts 35 and 36 (28 C.F.R., Ch. I, Part 35, § 35.101 et seq., and Part 36, § 36.101 et seq.), Title 36 of the Code of Federal Regulations Part 1191 (36 C.F.R., Ch. XI, Part 1191, § 1119.1 et seq.), Title 49 of the Code of Federal Regulations Part 37 (49 C.F.R., Ch. A, Part 37, § 37.1 et seq.), the United States Department of Justice Title II and Title III for the ADA, and California Government Code section 4450 et seq., which require public facilities be made accessible to persons with disabilities.

Notwithstanding the requirements of the previous paragraph, all construction, design, and maintenance of public facilities must also comply with the Department's

Design Information Bulletin 82, "Pedestrian Accessibility Guidelines for Highway Projects" and Standard Plans & Specifications on "Temporary Pedestrian Access Routes."

39. **STORMWATER:** The Permittee is responsible for full compliance with the following:
- a) For all projects, the Department's Storm Water Program and the Department's National Pollutant Discharge Elimination System (NPDES) Permit requirements under Order No. 2012-0011-DWQ, NPDES No CAS000003; and
 - b) In addition, for projects disturbing one acre or more of soil, with the California Construction General Permit Order No. 2009-0009-DWQ, NPDES No CAS000002; and
 - c) In addition, for projects disturbing one acre or more of soil in the Lahontan Region with Order No. R6T-2016-0010, NPDES No CAG616002.
 - d) For all projects, it is the Permittee's responsibility to install, inspect, repair, and maintain all facilities and devices used for water pollution control practices (Best Management Practices/BMPs) before performing daily work activities.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
ENCROACHMENT PERMIT UNDERGROUND UTILITY PROVISIONS
 TR - 0163 (Rev. 04/2018)

High priority utilities, pressurized facilities, pipes or ducts 6" or larger in diameter, or placement of multiple pipes or ducts, regardless of diameters are required to be encased on both conventional and access controlled highway rights-of-way.

A "High Priority Utility" is defined as: 1) a natural gas pipeline greater than 6" in diameter, or with normal operating pressures greater than 60 psig, 2) petroleum pipelines, 3) pressurized sanitary sewer pipelines, 4) high-voltage electric supply lines, conductors, or cables that have a potential to ground of greater than or equal to 60 kV, or 5) hazardous materials pipelines that are potentially harmful to workers or the public if damaged.

An exception to this policy may be allowed on a case by case basis for the installation of Uncased High Pressure Natural Gas Pipelines when in compliance with the TR-0158 Special Provisions.

The pavement or roadway must not be open-cut unless specifically allowed under a separate "UT" permit. Utility installations must not be installed inside of culverts or drainage structures.

For additional details regarding longitudinal utility encroachments on both conventional and access controlled highway rights-of-way, see Chapter 600.

UG 1. CASINGS:

Casings must be steel conduit with a minimum inside diameter sufficiently larger than the outside diameter of the pipe or ducts to accommodate placement and removal. The casing can be either new or used steel pipe, or an approved connector system. Used pipe must be pre-approved by the Department's engineer or representative before installation.

When the method of Horizontal Directional Drilling (HDD) is used to place casing, the use of High Density Polyethylene Pipe (HDPE) as casing is acceptable.

Reinforced Concrete Pipe (RCP) in compliance of State Standard Specifications is an acceptable carrier for storm drain gravity flow or non-pressure flow. RCP when installed by Bore & Jack must have rubber gaskets at the joints, and holes for grouting of voids left by jacking operations, see "E" below.

- A. Minimum wall thickness for steel pipe casing for different lengths and diameters of pipes are as follows:

Minimum Wall Thickness		
Casing Pipe (Diameter)	Up to 150 ft (Length)	Over 150 ft (Length)
6" to 28"	1/4"	1/4"
30" to 38"	3/8"	1/2"
40" to 60"	1/2"	3/4"
62" to 72"	3/4"	3/4"

- B. Spiral welded casing is authorized provided the casing is new and the weld is smooth.
- C. The ends of the casing must be plugged with ungrouted bricks or other suitable material approved by the Department's representative.
- D. When required by the Department's representative, the permittee must at his expense, pressure grout the area between the pavement and the casing from within the casing in order to fill any voids caused by the work covered under this permit. The increments for grout holes inside the pipe must be 8' staggered and located 22-1/2 degrees from vertical axis of the casing. Pressure must not exceed 5 psig for a duration sufficient to fill all voids.

- E. There is a spacing requirement when placement of multiple encasements is requested. The distance between multiple encasements must be the greater of either 24" or twice that of the diameter of the larger pipe being installed.
- F. Casings placed within access controlled highway rights-of-way must extend to the right-of-way lines.
- G. Wing cutters, if used, must be a maximum of 1" larger than the casing. Voids caused by the use of wing cutters must be grouted in accordance with "E" above.
- H. A band welded to the leading edge of the casing must be placed square to the alignment. The band must not be placed on the bottom edge. Flaring the lead section on bores over 100' must not be permitted.
- I. All casing lengths must equal to the auger length.
- J. The casings within conventional highways must extend 5' beyond the back of curb or edge of pavement, or to the right of way line if less. Where PCC cross-gutter exists, the casing must extend at least 5' beyond the back of the cross-gutter, or to the right of way line if less.

Bore and receiving pits must:

- A. be located at least 10' or more from the edge of pavement on conventional highways in rural areas.
- B. be located 5' behind the concrete curb or AC dike on conventional highways in urban areas.
- C. be located 5' outside the toe of slope of embankment areas.
- D. be located outside access controlled highway rights-of-way.
- E. be adequately fenced and/or have a Type-K barrier placed around them.
- F. be adequately shored in accordance with Cal-OSHA requirements. Shoring for jacking and receiving pits located within 15' of traffic lanes on a State highway must not extend more than 36" above the pavement grade unless otherwise authorized by Department's representative. Reflectors must be affixed to the shoring on the sides facing traffic. A 6' chain link fence must be installed around the perimeter of the pits during non-working hours.

- G. have crushed-rock and sump areas to clear groundwater and water used to clean the casing. Where ground water is found and pumping is required, the pits must be lined with filter fabric.

UG 2. HORIZONTAL DIRECTIONAL DRILLING: Bore and receiving pits

When HDD is the approved method for pipe installation, drilling plans must contain information listed as follows:

1. Location of: entry and exit point, access pit, equipment, and pipe staging area.
2. Proposed drill path alignment (horizontal and vertical).
3. Location and clearances of all other facilities.
4. Depth of cover.
5. Soil analysis.*
6. Carrier pipe length, diameter, thickness, and material (HDPE/steel) and ream pipe diameter.
7. Detailed carrier pipe calculations confirming ability to withstand installation loads and long term operational loads including H2O.
8. Proposed drilling fluid composition, viscosity, and density (based on soils analysis).
9. Drilling fluid pumping capacity, pressures, and flow rates
10. State right-of-way lines, property, and utility right of way or easement lines.
11. Elevations.
12. Type of tracking method/system and accuracy used.
13. A detailed plan for monitoring ground surface movement (settlement or heave) resulting from the drilling operation.

- * May be waived by the District Permit Engineer for HDD jobs less than 6" in diameter and a traverse crossing less than 150'.

UG 3. LIMIT OF EXCAVATION:

No excavation is allowed within 10' from the edge of pavement except in curbed urban areas or as specified in the permit. Where no curb exists and excavations within 10' of the traveled way are to remain open, a temporary Type-K railing must be placed at a 10:1 taper or as otherwise directed by the Department.

UG 4. TUNNELING:

Review, requirements of Section 603.6A-6 of the Encroachment Permits Manual, if applicable. In addition to the requirements of "UG1" the following requirements apply:

- A. For the purpose of this provision, a tunnel is defined as any pipe, 30" or larger in diameter placed.
- B. When tunneling is authorized, the permittee must provide full-time inspection of tunneling operations. The Department's representative must monitor projects.
- C. A survey grid must be set and appropriately checked over the centerline of the pipe jacking or tunneling operation. Copies of the survey notes must be submitted to the Department's representative.
- D. Sand shields may be required as ground conditions change.
- E. The method used to check the grade and alignment must be approved by the Department's representative.
- F. Pressure grouting for liner plates, rib and spiling, or rib and lagging tunnels must be at every 8' section or at the end of work shift before the next section is excavated. All grouting must be completed at the end of each workday.

- G. A method for securing the headway at the end of each workday is required. Breastplates must be installed during working hours for running sand or super-saturated soil.

UG 5. CLEARANCE AND OFFSET REQUIREMENTS:

All installations must comply with Chapter 17, Article 4 of the Project Delivery Procedures Manual (PDPM) for utility clearance and offset requirements.

UG 6. FACILITIES EXEMPT FROM THE HIGH PRIORITY UTILITY REQUIREMENTS:

The following utilities (not including State owned utilities) are exempt from these policies and do not need to be plotted on the plans unless the depiction of the utility is needed for interconnectivity with the proposed work:

- Natural gas service lines less than 2 inches in pipe diameter that have normal operating pressures of 60 psig or less
- Subsurface electrical service connections with a potential to ground of 50 volts or less
- Service connections (laterals) for water, sewer, telephone, telecommunication, and cable service

All State owned utilities must be plotted on the plans.

UG 7. DETECTOR STRIP:

A continuous metallic detector strip must be provided with non-metallic main installations. Service connections must be installed at right angles to the centerline of the State highway where possible.

UG 8. BACKFILLING:

All backfilling must conform to the applicable sections of the Department's Standard Specifications. Ponding or jetting methods of backfilling are prohibited.

Any required compaction tests must be performed by a certified laboratory at no cost to the Department and the laboratory report furnished to the Department's representative.

UG 9. ROADWAY SURFACING AND BASE MATERIALS:

When the permit authorizes installation by the open cut method, surfacing and base materials and thickness thereof must be as specified in the permit.

Temporary repairs to pavements must be made and maintained upon completion of backfill until permanent repairs are made. Permanent repairs to pavements must be made within thirty (30) days of completion of backfill unless otherwise specified by the Department. Temporary pavement patches must be placed and maintained in a smooth riding plane free of humps and/or depressions.

UG 10. DAMAGE TO TREE ROOTS:

Tree roots 3" or larger in diameter will not be cut within the tree drip line when trenching or other underground work is necessary adjacent to roadside trees. If such roots are encountered, they must be tunneled under, wrapped in burlap and kept moist until the trench is backfilled. Trenching machines may not be used under trees if the trunk or limbs will be damaged by their use.

If the trees involved are close together and of such size that it is impractical to protect all roots over 3" in diameter, or when roots are less than 4" in diameter, outside tree drip line, special arrangements may be made whereby pruning of the tree tops to balance the root loss can be done by the permittee under the close supervision of the District Landscape Specialist or District Tree Maintenance Supervisor. Manholes must not be installed within 20' of any trunk.

UG 11. PIPES ALONG ROADWAY:

Pipes and conduits paralleling the pavement must be located as shown on the plans or located outside of pavement as close as possible to the right-of-way line.

UG 12. BORROW AND WASTE:

Borrow and waste will be allowed within the work limits only as specified in the permit.

UG 13. MARKERS:

The permittee must not place any markers that create a safety hazard for the traveling public or departmental employees.

UG 14. CATHODIC PROTECTION:

The permittee must perform stray current interference tests on underground utilities under cathodic protection. The permittee must notify the Department prior to the tests. The permittee must perform any necessary corrective measures and advise the Department.

UG 15. DELETED. Provision left blank intentionally

UG 16. INSTALLATION BY OPEN CUT METHOD:

When the permit authorizes installation by the open cut method no more than one lane of the highway pavement must be open-cut at any one time. Any exceptions must be in writing by the Department's representative. After the pipe is placed in the open section, the trench is to be backfilled in accordance with specifications, temporary repairs made to the surfacing and that portion opened to traffic before the pavement is cut for the next section.

If, at the end of the working day, backfilling operations have not been properly completed, steel plate bridging must be required to make the entire highway facility available to the traveling public in accordance with the "Steel Plate Bridging Special Provisions" (TR-0157)

UG 17. PAVEMENT REMOVAL:

PCC pavement to be removed must be saw cut at a minimum depth of 4" to provide a neat and straight pavement break along both sides of the trench. AC pavement must be saw cut to the full depth.

Where the edge of the trench is within 2' of existing curb and gutter or pavement edge, the asphalt concrete pavement between the trench and the curb or pavement edge must be removed.

UG 18. DELETED. Provision left blank intentionally.*

UG 19. SIDES OF OPEN-CUT TRENCHES:

Sides of open cut trenches in paved areas must be kept as nearly vertical as possible. Trenches must not be more than 2' wider than the outside diameter of the pipe to be laid therein, plus the necessary width to accommodate shoring.

UG 20. EXCAVATION UNDER FACILITIES:

Where it is necessary to excavate under existing curb and gutter, or underground facilities, the void must be backfilled with two (2) sack cement-sand slurry.

UG 21. PERMANENT REPAIRS TO PCC PAVEMENT:

Repairs to PCC pavement must be made of Portland Cement Concrete containing a minimum of 658 lbs. or 7 sack of cement per cubic yard. Replaced PCC pavement must equal existing pavement thickness. The concrete must be satisfactorily cured and protected from disturbance for not less than forty-eight (48) hours. Where necessary to open the area to traffic, no more than two (2%) percent by weight of calcium chloride may be added to the mix and the road opened to traffic after six (6) hours.

UG 22. REMOVAL OF PCC SIDEWALKS OR CURBS:

Concrete sidewalks or curbs must be saw cut to the nearest score marks and replaced equal in dimension to that removed with score marks matching existing sidewalk or curb.

UG 23. SPOILS:

No earth or construction materials are to be dragged or scraped across the highway pavement, and no excavated earth placed or allowed to remain at a location where it may be tracked onto the highway traveled way, or any public or private approach by the permittee's construction equipment, or by traffic entering or leaving the highway traveled way. Any excavated earth or mud so tracked onto the highway pavement or public or private approach must be immediately removed by the permittee.

***NOTE: Special Provision was deleted since it is already part of the EP General Provisions (TR-0045)**

1. GENERAL: The purpose of these Special Provisions is to provide the Permittee with specifications for water pollution control to minimize, prevent, or control the discharge of material into the air, surface waters, groundwater, and storm sewers owned by the State or local agencies. These provisions are not intended to take the place of the Caltrans Water Pollution Control Program (WPCP) for projects where soil disturbance from work activities less than one acre, or work activities of one acre or more subject to the preparation of the Caltrans Storm Water Pollution Prevention Plan (SWPPP). The Permittee must comply with the following Special Provisions and the direction of the State Representative. All Stormwater Best Management Practices (BMPs) must conform to Section 13 Water Pollution Control of Caltrans' Standard Specifications.

2. NPDES REQUIREMENTS: The Permittee must be responsible for full compliance with the Caltrans Storm Water Program and the Caltrans National Pollutant Discharge Elimination System (NPDES) Permit requirements (*Order No. 2012-0011-DWQ, NPDES No CAS000003*) and for and projects disturbing one acre or more of soil, full compliance with the California Construction General Permit (*Order No. 2009-0009-DWQ, NPDES No CAS000002*) or for projects for projects that have one acre or more of soil disturbance in the Lahontan Region (*Order No. R6T-2016-0010, NPDES No CAG616002*). It is the Permittee's responsibility to install, inspect, and repair or maintain facilities and devices used for water pollution control practices (BMPs) before performing daily work activities. Installation, inspection and maintenance responsibilities on the job site include: 1) soil stabilization materials in work areas that are inactive or prior to storm events, 2) water pollution control devices to control sediment and erosion, 3) implementation of spill and leak prevention procedures for chemical and hazardous substances stored on the job site, 4) material storage, 5) stockpile management, 6) waste management, 7) non-stormwater management, 8) water conservation, 9) tracking controls and 10) illicit connection, illegal discharge detection and reporting. The Permittee must report to the State representative when discharges enter into receiving waters, adjacent property, drainage systems or when discharges could be a cause or a threat for water pollution. The Permittee must also control illicit discharges or illegal dumping prior to start of daily work schedule. Copies of written notices or orders from the Regional Water Quality Control Board or other regulatory agency must be provided to the State representative within 48 hours of reported activity. For additional information on stormwater compliance, visit the State Water Resources Control Boards storm water Website at:

http://www.waterboards.ca.gov/water_issues/programs/stormwater

3. RESPONSIBILITY FOR DEBRIS REMOVAL: The Permittee must be responsible for preventing sediment, trash, debris, and other construction waste from entering the street, the storm drains, local creeks, or any other bodies of water.

4. SPOILS AND RESIDUE: The Permittee must vacuum any saw-cut concrete waste material, debris, residue, etc. No spoils, debris, residue, etc. must be washed into a drainage system.

5. SWEEPING: Sweep paved roads at construction entrance and exit locations and surrounding paved areas daily within the job site during: 1) clearing and grubbing, 2) earthwork, 3) trenching, 4) soil disturbance, 5) pavement grinding and/or cutting, and 6) after observing tracking of material onto or off the State property. Keep dust to a minimum during sweeping activities. Use vacuum whenever dust generation is excessive or sediment pickup is ineffective.

Roadways or work areas must not be washed down with water. Street sweeping operations must conform to Section 13 Water Pollution Control of Caltrans' Standard Specifications.

6. VEHICLES AND EQUIPMENT: Permittee must prevent all vehicles, equipment, etc. from leakage or mud tracking onto roadways. If leaks cannot be repaired immediately, remove the vehicle or equipment from the job site.

7. MAINTENANCE AND FUELING OF VEHICLES AND EQUIPMENT: Maintenance and fueling of equipment must not result in any pollution at the job site. The Permittee must immediately clean up spills/leaks, and properly dispose of contaminated soil and materials.

8. CLEANING VEHICLES AND EQUIPMENT: Limit vehicle and equipment cleaning or washing at the job site except what is necessary to control vehicle tracking or hazardous waste. The Permittee must clean all equipment within a bermed area or over a drip pan large enough to prevent run-off. No soaps, solvents, degreasers, etc. must be used in State right-of-way. Any water from this operation must be collected and disposed of at an appropriate site. Containment berms or dikes must be used for fueling, washing, maintaining and washing vehicles or equipment in outside areas. Containment must be performed at least 100 feet from concentrated flows of storm water, drainage courses, and storm drain inlets if within a flood plain, otherwise at least 50 feet if outside the floodplain. Keep adequate quantities of absorbent spill- cleanup material and spill kits in the fueling or maintenance area and on fueling trucks.

9. DIESEL FUELS: The use of diesel fuel from petroleum or other fossil fuel as a form-oil or solvent is not allowed.

10. WEATHER CONDITIONS AT WORKSITE: Any activity that would generate fine particles or dust that could be transported off site by stormwater must be performed during dry weather.

11. WIND EROSION PROTECTION: The use of Wind Erosion BMPs must be deployed year-round in instances where dust or fine particles could be transported off site.

11. HOT MIX ASPHALT: Runoff from washing hot mix asphalt must not enter into any drainage conveyances.

12. PROTECTION OF DRAINAGE FACILITIES: The Permittee must protect/cover gutters, ditches, drainage courses, and inlets with gravel bags, fiber rolls, State approved fabric filters, etc., to the satisfaction of the State representative during grading, paving, saw-cutting, etc. and materials must conform to Section 13-6.02 Materials for Water Pollution Control of Caltrans' Standard Specifications. No such protection measures must cause an obstruction to the traveling public. The Permittee must implement spill and leak prevention procedures for chemicals and hazardous substances stored on the job site (including secondary containment requirements) in accordance to section 13-4.03B Spill Prevention and Control, and 14-11 Hazardous Waste and Contamination, Water Pollution Control of Caltrans' Standard Specifications.

13. PAINT: Rinsing of painting equipment and materials is not permitted in State right-of-way. When thoroughly dry, dispose of the following as solid waste: dry latex paint, paint cans, used brushes, rags, gloves, absorbent materials, and drop cloths. Oil based paint sludge and unusable thinner must be disposed of at an approved hazardous waste site.

14. CONSTRUCTION MATERIALS: Stockpile of all construction materials, including, but not limited to; pressure treated wood, asphalt concrete, cold mix asphalt concrete, concrete, grout, cement containing premixes, and mortar, must conform to section 13-4.03C (2) Material Storage & 13-4.03C (3) Stockpile Management of Caltrans' Standard Specifications.

15. CONCRETE EQUIPMENT: Concrete equipment must be washed in a designated washing area in a way that does not contaminate soil, receiving waters, or storm drain systems.

16. EXISTING VEGETATION: Established existing vegetation is the best form of erosion control. Minimize disturbance to existing vegetation. Damaged or removed vegetation must be replaced as directed by the State Representative.

17. SOIL DISTURBANCE: Soil disturbing activities must be avoided during the wet weather season. If construction activities during wet weather are allowed in your permit, all necessary erosion control and soil stabilization measures must be implemented in advance of soil disturbing activity.

18. SLOPE STABILIZATION AND SEDIMENT CONTROL: Consider a certified expert in Erosion and Sediment control in cases where slopes are disturbed during construction. The Permittee is directed to comply with Section 13.5 Temporary Soil Stabilization and Section 21 Erosion Control of Caltrans' Standard Specifications during application of temporary soil stabilization measures to the soil surface. Fiber rolls or silt fences may be required down slope until permanent soil stabilization is established. Remove the accumulated sediment whenever the sediment accumulates to 1/3 of the linear sediment barrier height. The Permittee must limit the use of plastic materials when more sustainable, environmentally friendly alternatives exist or when environmental regulations prohibit their use within the project.

19. STOCKPILES: Stockpiles containing aggregate and/or soil must be stored at least 100 feet from concentrated flows of storm water, drainage courses, and storm drain inlets if within a flood plain, otherwise at least 50 feet if outside the floodplain, and must be covered and protected with a temporary perimeter sediment barrier. Cold mix stockpiles must be stored on an impermeable surface and covered with 9 mil plastic to prevent contact with water. Minimize stockpiling of materials on the job site. Manage stockpiles by implementing the water pollution control practices in Section 13-4.03C (3) Stockpile Management of the State of California standard specifications for construction.

20. DISCOVERY OF CONTAMINATION: The State Representative must be notified in case any unusual discoloration, odor, or texture of ground water, is found in excavated material or if abandoned, underground tanks, pipes, or buried debris are encountered.

21. SANITARY AND SEPTIC WASTE: Do not bury or discharge wastewater from a sanitary or septic system within the highway. Properly connected sewer facilities are free from leaks. With State Representative approval place portable sanitary facility at least 50 feet away from storm drains, receiving waters, and flow lines. Permittee must comply with local health agency provisions when using an on-site disposal system.

22. LIQUID WASTE: Prevent job site liquid waste from entering storm drain systems and receiving waters. Drilling slurries, grease or oil-free waste water or rinse water, dredging, wash water or rinse water running off a surface or other non-storm water liquids not covered under separate waste water permits must be held in structurally sound, leak-proof containers, such as portable bins or portable tanks. Store containers at least 50 feet away from moving vehicles and equipment. Liquid waste may require testing to determine hazardous material content prior to disposal. All measures must conform to section 13-4.03D (5) Liquid Waste, Water Pollution Control of Caltrans' Standard Specifications.

23. WATER CONTROL AND CONSERVATION: Manage water use in a way that will prevent erosion and the discharge of

pollutants into storm drain systems and receiving waters. Direct runoff, including water from water line repair from the job site to areas where it can infiltrate into the ground. Direct water from off-site sources around the job site or from contact with jobsite runoff.

24. PILE DRIVING: Keep spill kits and cleanup materials at pile driving locations. Park pile driving equipment over drip pans, absorbent pads, or plastic sheeting with absorbent material, and away from stormwater run-on when not in use.

25. DEWATERING: Dewatering consists of discharging accumulated storm water, groundwater, or surface water from excavations or temporary containment facilities. All dewatering operations must comply with the latest Caltrans guidelines including the *Field Guide for Construction Site Dewatering*. Contact State representative for approval of dewatering discharge by infiltration or evaporation, otherwise, any effluent discharged into a permitted storm water system requires approval from the Regional Water Quality Control Board. Prior to the start of dewatering, the Permittee must provide the State Representative with a dewatering and discharge work plan that complies with section 13-4.03G Dewatering, Water Pollution Control of Caltrans' Standard Specifications. A copy of the Waste Discharge Permit and a copy of a valid WDID number issued by the Regional Board must be provided to the State representative.

HAZARDOUS MATERIALS AND HAZARDOUS WASTE MANAGEMENT SPECIAL PROVISIONSTR-0408 (New 09/2017)

By acceptance of this encroachment permit, Permittee hereby agrees that:

1. All construction debris/materials/water/excess soil must become the property of the Permittee, and must be transported and disposed of, outside of Caltrans' right-of-way, in accordance with all applicable environmental laws and regulations. The Permittee must be identified as the generator for all construction debris/materials/water/excess soil and must be responsible for proper identification (including sampling and analysis) and management of all construction and contaminated debris/materials/water/excess soil that are removed, and/or excavated, from the work site. If hazardous waste is generated, the Permittee must obtain an Environmental Protection Agency (EPA) Identification Number issued in their name. State Permit Inspector does not sign any manifests or shipping papers. The Permittee must be named as the generator on all Uniform Hazardous Waste Manifests and shipping papers. Caltrans must not be identified or written anywhere on the manifests or shipping papers. Prior to waste disposal, the Permittee should submit the waste generator form(s) to State Permit Inspector for verification. The Permittee must submit to the State Permit Inspector, a copy of all manifests and/or shipping papers generated for materials removed, transported and/or excavated from the state right-of-way.
2. If contaminated material is encountered, Permittee is to stop work and contact the State Permit Inspector immediately. The Permittee must submit a Sampling and Analysis Plan (SAP), and a Health and Safety Plan (HaSP) prepared by a Certified Industrial Hygienist (CIH) and in conformance with California Code of Regulations title 8, section 5192, "Hazardous Waste Operations and Emergency Response" for sampling activity through a separate permit application. Upon the permit review, additional environmental documents may be required prior to resumption of construction activity.
3. Permittee is responsible for any violation, penalty, enforcement action, corrective action, remedial action, and any other type of consequences resulting from cross contamination of groundwater (including perched groundwater), improper handling/managing of hazardous materials and/or placement of contaminated materials inside Caltrans right-of-way.
4. It is the Permittee's responsibility to comply with the Department of Toxic Substances Control (DTSC) ADL requirements for roadway soil management. Reuse of soils containing greater than 80 mg/kg total lead is not allowed without written approval of the DTSC and Caltrans. The Soil Management Agreement for Aerially Deposited Lead-Contaminated Soils between Caltrans and the DTSC does not constitute written approval for the Permittee to reuse soils containing greater than 80 mg/kg total lead.
5. The Permittee must implement the emergency notification requirements established in the California Office of Emergency Management Hazardous Materials, Spill / Release Notification Guidance (<http://www.caloes.ca.gov/>).
6. Any imported material used for backfill must be free of contamination, and a certificate of the material as "clean" with the source area of the material must be provided to Permit Inspector upon request. Importing soils containing greater than 80 mg/kg total lead for use in state right-of-way is not allowed.
7. Stockpiles of material containing aerially deposited lead shall not be placed where affected by surface run-on or run-off. Stockpiles shall be covered with plastic sheeting 13 mils minimum thickness or with one foot of nonhazardous material. Stockpiles shall not be placed in environmentally sensitive areas. Stockpiled material shall not enter storm drains, inlets, or waters of the State.



D4 Encroachment Permit Work Scheduling Request Form

Submit your request to schedule traffic control weekly, 7 days in advance, using this form. Submit your request to State Representative (Inspector) listed on page 1 or 2 of your permit. If your inspector is not available, contact Permit Duty Station at (510) 286-4401. Check special provisions for authorized work hours. Any deviation from the permit must be in writing and requires additional review and approval.

INSTRUCTIONS AND ABBREVIATIONS: See the procedures on page 2 of this form.

1. Permit No.: _____ 2. Expiration Date: _____ 3. Request Date: _____
4. Caltrans Inspector: _____ 5. Requested Work Week: _____ to _____
6. Route: _____ 7. County: _____ 8. City or Township: _____
9. PostMiles: From: _____ To: _____ 10. Existing Lanes (in each Dir): Dir _____ Lns _____ / Dir _____ Lns _____
11. Describe Location (use landmark if necessary): From: _____ To: _____
12. Name of Conventional Highway or Surface St: _____
13. Fill in or 'x' if applicable (a through k): (a) Divided Hwy or Undivided Hwy (b) Full-Closure 1 dir or both dir
 (c) One-Way Traffic Control: Only on "Undivided" Hwy (Alternate use of same lane for both directions--hold traffic 5-10 min w/flaggers)
 (d) Connector Ramp: (State Highway #) _____ to (State Highway #) _____ Closed or Lane # _____
 (e) Off-ramp: (Freeway to City St.) Ramp Name: _____ Off-ramp Closed or Lane#: _____
 (f) On-ramp: (City St. to Freeway) Ramp Name: _____ On-ramp Closed or Lane#: _____
 (g) Divert Traffic or Contra Flow: Reconfigure Lns/divert traffic to Lane# ___ in the ___ Direction; ___ Lns open each dir
 (h) Intermittent Traffic Control (i) Various Locations (j) Long-Term (24+ hours continuous) ETO

(k) Year:		Time		Dir		* * * * * Restricted Lanes * * * * *														Brks		Closure ID#			
From DATE	To DATE	DAY(S) SU-M-T-W-TH-F-SA	24-HR CLOCK		NB	SB	Full Closure See Detour	SHLDR		1	2	3	4	5	6	V L	Aux or Coll	CD or Med	TURN PCKT(S)		Park Strip	5 to 15 min	Rolling	Caltrans will complete & return	
			Start (10-97)	Finish (10-98)				EB	WB										L	R					L

14. Description of work/comments: _____

15. Detour (Required for full closure): _____

16. Contingency Plan: _____

17. On-site during work (circle if applicable): CHP / PD / Other: _____

18. Name:	Permittee or Permittees Representative/Contractor:	
	Address including zip code:	
On-site Personnel Contact Name of person in responsible charge & phone number(s).	Name:	
	Email:	
	Office:	FAX:
	Cell:	Emergency phone number 24/7:

19. **"REAL-TIME" STATUS INSTRUCTIONS – PLEASE MAKE YOUR FIELD PERSONNEL AWARE & RESPONSIBLE!**
 Permittee must STATUS lane closures DAILY via Caltrans District 4's 24-Hour Communication Center at (510) 286-6359. Status using Closure ID Number when work begins, to 1097 (1st cone down), and again to 1098 (last cone picked up); OR, 1022 to cancel. Any delay in picking up your closure must be reported immediately.



D4 Encroachment Permit Work Scheduling Procedures

1. **INSTRUCTIONS:** Fill in blanks or check appropriate boxes. Attach maps or diagrams, if available. Enter **beginning day** through **ending day of work week** (M-T-W-TH-F-SA-SU). **Date: Month/Day**—Enter month (01-12) and day (01-31) of requested week. **Start & Finish Time:** Use 24-hour clock format. **Read** the Permit Special Provisions for **hours & days** allowed. Separate lane closure #'s are required for each direction and facility. Use separate line for each. **Lanes** are numbered in direction of travel from left to right, excluding turn pockets; left being #1 or "fast lane." Check boxes under **Restricted Lanes** to indicate lanes or parts of highway to be closed. **VL** may be checked with note in Comments Section stating number of lanes to remain open at all times.
2. **ABBREVIATIONS:** **Aux**=auxiliary, **CD**=Center Divide; **Coll**=Collector; **Contra Flow**=Close 1 direction of traffic and divert to lane(s) in opposite direction or a turn lane. **DAY(S)**=(M-T-W-TH-F-SA-SU); **Dir**=Direction (**NB**=Northbound, **SB**=Southbound, **WB**=Westbound, **EB**=Eastbound); **ETO**=Emergency Traffic Operations; **F/L**=fog line; **Hwy**=Highway; **Lns**=Lanes; **L**=Left; **Med**=Median; **Park Strip**=Parking area parallel to lane; **PCKT**=Pocket; **Rolling**=traffic breaks for closure such as sweeping; **R**=Right; **SHLDR**=Shoulder; **VL**=Various Lanes
3. Requests for scheduling must be submitted on this form to the Inspector listed on page 1 or 2 of your permit. If your inspector is not available, contact Permit Duty Station at (510) 286-4401.
4. All permitted work (**with or without traffic control**) is subject to advance scheduling on this form, seven (7) days in advance of the work week requested. Submittals and approvals must continue on a weekly basis.
5. If work begins weekly on Sunday, the work week must be Sunday through Saturday. If work week begins on Monday, the work week must be Monday through Sunday.
6. Incomplete, illegible, or inaccurate requests may be returned for correction. Assistance for completing the request may be obtained from the designated State Representative.
7. Every attempt will be made to return timely requests with closure ID or work authorization numbers, to the Permittee by close of business on Thursday, prior to the scheduled work week. When deemed necessary to ensure public convenience, Caltrans may deny and/or reschedule the request.
8. All requests must include a contingency plan for restoring public traffic (i.e. reopening of a closed lane, ramp and/or shoulder) in the event of (1) CHP or the local authority requires opening due to an unforeseeable incident in the nearby vicinity, or (2) permitted experiences an equipment breakdown, shortage of or lack of production materials or any other failure which would otherwise delay restoring public convenience within the time limits specified in the permit. The contingency plan must include availability of any proposed standby equipment and stockpiled materials that can be utilized for the immediate opening of closures when ordered by the State representative. Acceptance of the contingency plan by the Engineer must not relieve the Contractor from the requirement of opening the restricted travel way to accommodate public traffic as specified in the lane closure hour's section of the permit provisions.
9. Caltrans will review and process the request by entering all information into the Statewide Lane Closure System (LCS). This process generates a work authorization number*. This number will be entered on the request form and returned to Permittee as approval to proceed AND will be used to "**Real-Time Status**" on a daily basis. Permittee must communicate with Caltrans 24-hour District 4 Communication Center (DCC) via telephone at **(510) 286-6359** twice daily when working, or once daily if cancelled.
 - a. When work begins (1st cone down), Permittee must contact Caltrans DCC and relay: "**(Closure ID #*) is 1097.**"
 - b. When work ends (last cone picked up), Permittee must contact Caltrans DCC and relay: "**(Closure ID #*) is 1098.**"
 - c. If the work is cancelled on any scheduled day, Permittee must contact Caltrans DCC and relay; "**(Closure ID #*) is 1022.**" A "10-22" (cancellation) can be phoned any time before the scheduled "10-97" time, but no later than 1 hour prior to scheduled "10-98" time.
 - d. During the work, any unexpected occurrences including delayed openings, accidents, etc., must be communicated to Caltrans DCC immediately.Avoid possible miscommunication when calling status. Use the **PHONETIC ALPHABET** to state your Closure ID:
A=Adam, **B**=Boy, **C**=Charles, **D**=David, **E**=Edward, **F**=Frank, **G**=George, **H**=Henry, **I**=Ida, **J**=John, **K**=King,
L=Lincoln, **M**=Mary, **N**=Nora, **O**=Ocean, **P**=Paul, **Q**=Queen, **R**=Robert, **S**=Sam, **T**=Tom, **U**=Union, **V**=Victor, **W**=William,
X=X-ray, **Y**=Yellow, **Z**=Zebra. *Example: P82CA="Paul 82 Charles Adam"*
10. The intent of these procedures is to help ensure public convenience by identifying planned closures on the State Highway system, resolving potential conflicts, and disseminating all available "**REAL-TIME**" information via the traffic media to all motorists, including but not limited to the public, CHP, local police and sheriffs' office, and emergency fire and rescue personnel.

* "closure ID number" is the same as "work authorization number"

PERMIT NO.

Dear Sir or Madam:

*All work authorized by the above-numbered permit was
completed on* _____
DATE

SIGNATURE OF PERMITTEE

FM 92 1546 M

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