

CITY OF LAFAYETTE

2018 STORM DRAIN REHABILITATION PROJECT PROJECT NUMBER 014-9714

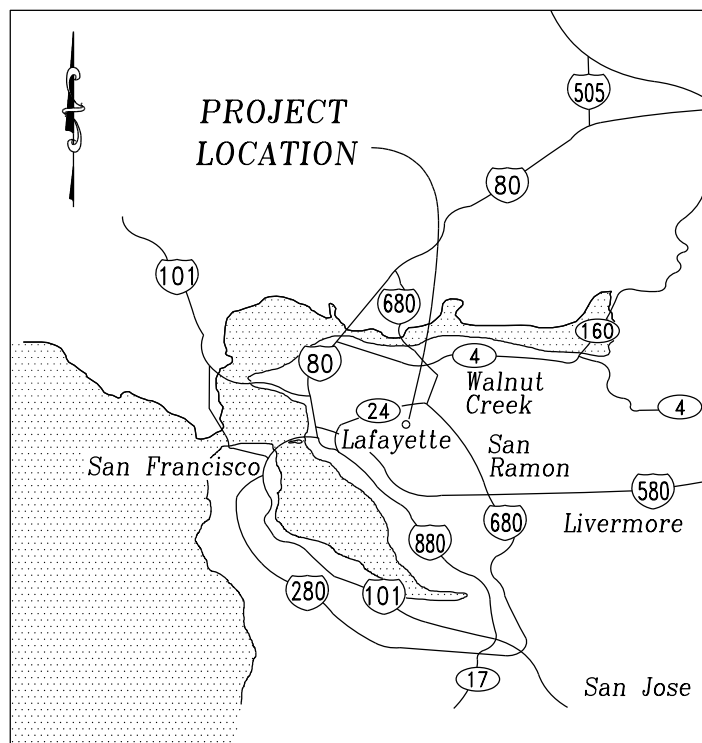
ABBREVIATIONS:

AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
ADJ	ADJUST
BC	BEGIN CURVE
BVC	BEGIN VERTICAL CURVE
BW	BACK OF WALK
CL	CENTER LINE
CB	CATCH BASIN
CMF	CORRUGATED METAL PIPE
(D),DES	DESIGN
D/W,DWY	DRIVEWAY
DI	DRAIN INLET
EC	END CURVE
ELEV	ELEVATION
EP	EDGE OF PAVEMENT
EVC	END VERTICAL CURVE
(E),EX,EXIST	EXISTING
F/C,FC	FACE OF CURB
FG	FINISH GRADE
FL	FLOWLINE
GAS	GAS
GB	GRADE BREAK
GR	STORM DRAIN INLET GRATE
(H),HORIZ	HORIZONTAL
INV	INVERT
IP	IRON PIPE
IRR	IRRIGATION
JP	JOINT POLE
LF	LINEAR FEET
LIP	LIP OF GUTTER
LT	LEFT
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MON	MONUMENT
OH	OVERHEAD
PCC	POINT OF COMPOUND CURVE
PCVC	POINT OF CURVATURE VERTICAL CURVE
PVIC	POINT OF INTERSECTION VERTICAL CURVE
PRC	POINT OF REVERSE CURVE
PVCP	POLYVINYLCHLORIDE PIPE
RADIUS	RADIUS
RCP	REINFORCED CONCRETE PIPE
RT	RIGHT
SLOPE	SLOPE
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SS	SANITARY SEWER
SSMH	SANITARY SEWER MANHOLE
STA	STATION
STD	STANDARD
STDs	STANDARDS
TYP	TYPICAL
T/C, TC	TOP OF CURB
(V),VERT	VERTICAL
VCP	VITRIFIED CLAY PIPE
W	WATER
WM	WATER METER
WV	WATER VALVE

GENERAL NOTES:

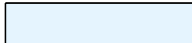

- UTILITY INFORMATION AND OBSTRUCTIONS SHOWN ON THE PROJECT PLANS AND PROVIDED IN THE SPECIFICATION ARE ONLY INFORMATIONAL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING UTILITIES WITHIN THE WORK AREA PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (U.S.A.) AT (800) 227-2600 A MINIMUM OF TWO WORKING DAYS IN ADVANCE OF ANY EXCAVATION. EXCAVATION SHALL NOT BEGIN UNTIL UNDERGROUND UTILITIES HAVE BEEN LOCATED.
- THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE AGENCIES PRIOR TO THE START OF ANY WORK WHICH MAY AFFECT THEIR FACILITIES. THE FOLLOWING UTILITIES AND AGENCIES ARE KNOWN TO HAVE FACILITIES WITHIN THE PROJECT LIMITS:

CENTRAL CONTRA COSTA SANITARY DISTRICT (925) 228-9500
EAST BAY MUNICIPAL UTILITY DISTRICT (WATER) (510) 287-0834
AT&T (TELEPHONE) (866) 346-1168
PACIFIC GAS AND ELECTRIC (EMERGENCY NUMBER) (800) 743-5000
REPUBLIC WASTE (GARBAGE/RECYCLING) (925) 685-4711
CONSOLIDATED FIRE PROTECTION DISTRICT (925) 930-5531
SENFNCO COMMUNICATIONS (COMCAST CABLE TV) (925) 349-3300
- THE CONTRACTOR SHALL INSPECT THE PROJECT SITE PRIOR TO SUBMITTING A BID IN ORDER TO OBSERVE AND DETERMINE THE EXISTING SITE CONDITIONS.
- TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE THE CONTRACTOR'S RESPONSIBILITY. ALL TRAFFIC CONTROL AND DEVICES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "MANUAL OF TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE WORK ZONES" USED BY THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION.
- THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. THESE PLANS DO NOT INCLUDE COMPONENTS NECESSARY FOR CONSTRUCTION SAFETY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE FOR THE SAFETY OF ALL PERSONS AND PROPERTY DURING THE COURSE OF THE PROJECT.
- THE CONTRACTOR SHALL COMPLY WITH THE RULES AND REGULATIONS OF CAL/OSHA. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- THE CONTRACTOR SHALL PROVIDE FOR CONTINUOUS ADGRESS AND EGRESS TO ALL PUBLIC AND PRIVATE PROPERTIES ADJACENT TO THE WORK THROUGHOUT THE PERIOD OF CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE SITE OR THE SURROUNDING AREA AS A RESULT OF THE CONTRACTOR'S WORK OR OPERATIONS. EXISTING CURB, GUTTER AND ANY OTHER IMPROVEMENTS THAT ARE DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- THE LOCATION OF CURB AND GUTTER REMOVAL AND CONSTRUCTION SHALL BE MARKED IN THE FIELD BY THE ENGINEER PRIOR TO THE START OF WORK.
- UNLESS DRIVEWAY, SIDEWALK OR OTHER CONFORM WORK IS SHOWN, CONTRACTOR SHALL PROTECT ADJACENT DRIVEWAY, SIDEWALK OR OTHER IMPROVEMENTS IN PLACE WHEN DOING REMOVAL AND REPLACEMENT.



VICINITY MAP
NTS

LEGEND:

REMOVE AND REPLACE CONCRETE IMPROVEMENTS	
REMOVE AND REPLACE ASPHALT PAVING	

APPLICABLE STANDARD PLANS

INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

CALTRANS STANDARD PLANS (DATED 2015)

A20 A,B	PAVEMENT MARKERS AND TRAFFIC LINES, TYPICAL DETAILS
A24 D	PAVEMENT MARKINGS, ARROWS, SYMBOLS, NUMERALS, WORDS AND CROSSWALKS
A37 B	MARKERS
A87 A	CURBS AND DRIVEWAYS
A87 B	HOT MIX ASPHALT DIKES
A88 A,B	CURB RAMP DETAILS
D77 A,B	GRATE DETAILS

CONTRA COSTA COUNTY STANDARD DETAILS (DATED 2014)

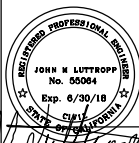
CA71	MEDIAN, CURB AND AC DIKE DETAILS
CD27	TYPE 'G' INLET
CD35	STANDARD INLET/MANHOLE PLAN GENERAL NOTES AND DETAILS

SHEET INDEX:

NO.	DESCRIPTION
1	TITLE SHEET
2	CONSTRUCTION DETAILS
3	LOCATION #1- 4096 LEGION COURT
4	LOCATION #2- 3784 MOSSWOOD DRIVE
5	LOCATION #3- VILLAGE CENTER AT MOSSWOOD DRIVE
6	LOCATION #4- SCHOOL STREET AT AVALON COURT
7	LOCATION #5- 745 SAINT MARY'S ROAD
8	LOCATION #6- 3364 MOUNT DIABLO BOULEVARD
9	LOCATION #7- 3140 OLD TUNNEL ROAD
10	LOCATION #8- QUANDT ROAD


DATE	MARK	REVISION	INIT.

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Checked by:	JML
Reviewed by:	MM
Date:	2-2-18

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DATE: 2-2-18

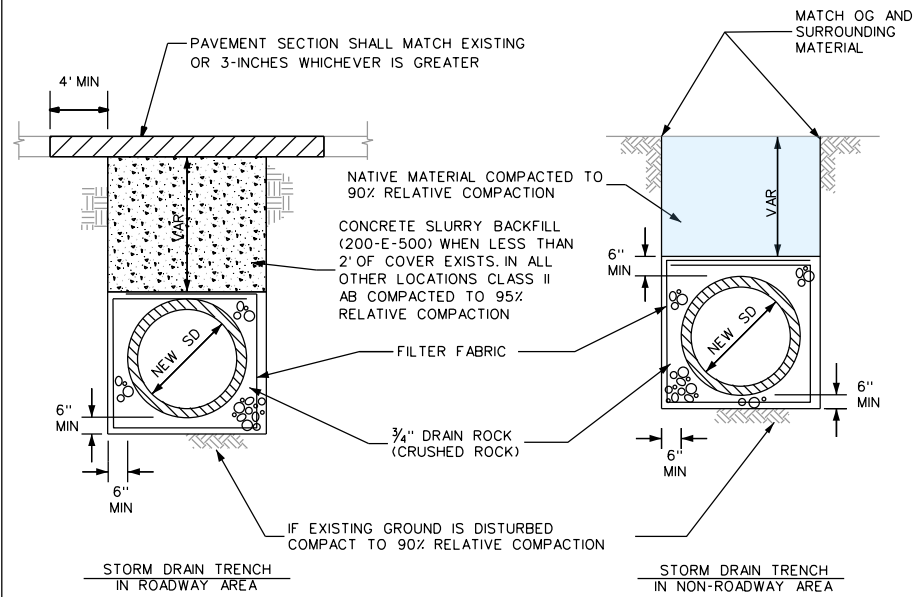


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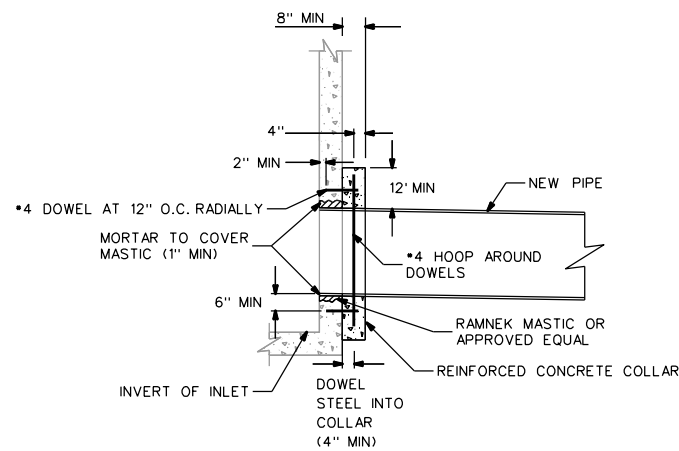
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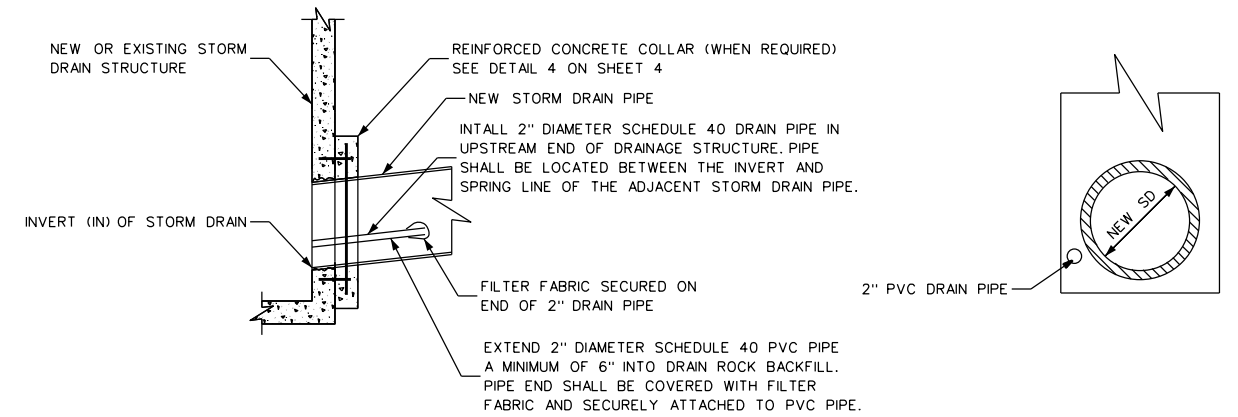
TITLE SHEET AND
CONSTRUCTION AREA SIGNS
SCALE: NTS
SHEET 1 of 10



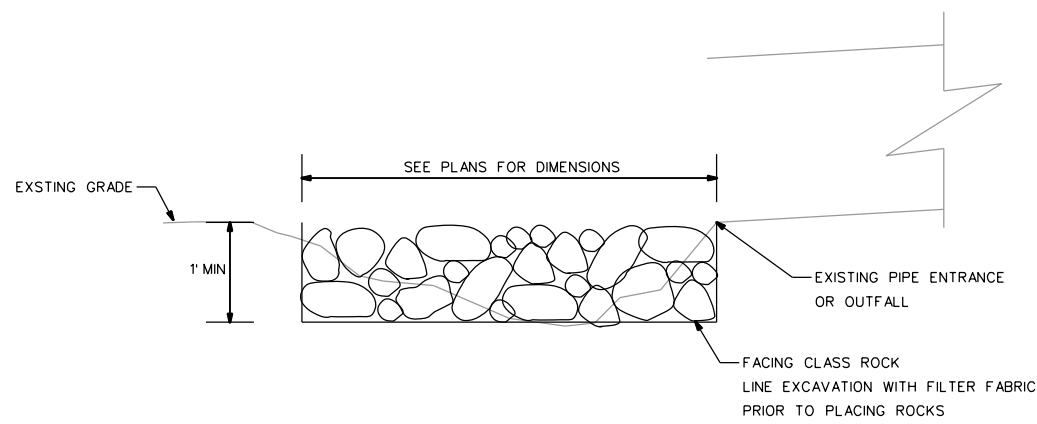
1 STORM DRAIN TRENCH DETAILS
2 NTS



2 PIPE CONNECTION TO EXISTING STRUCTURE
2 NTS

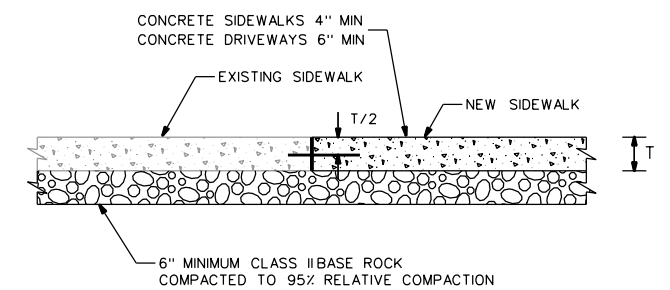
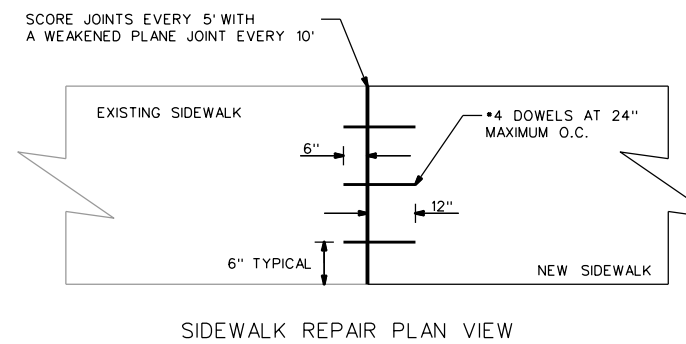
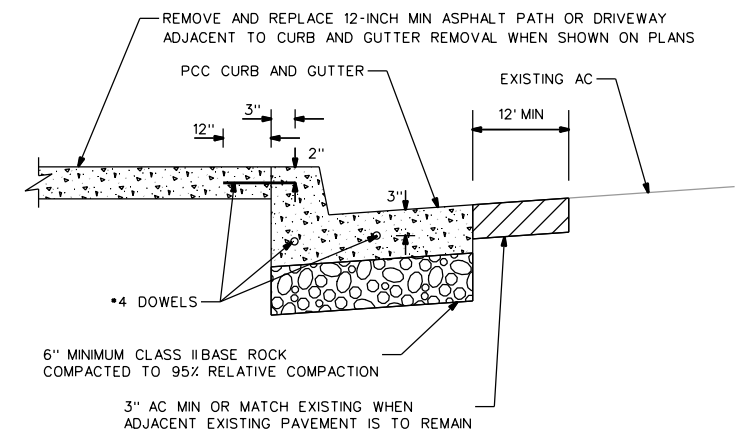
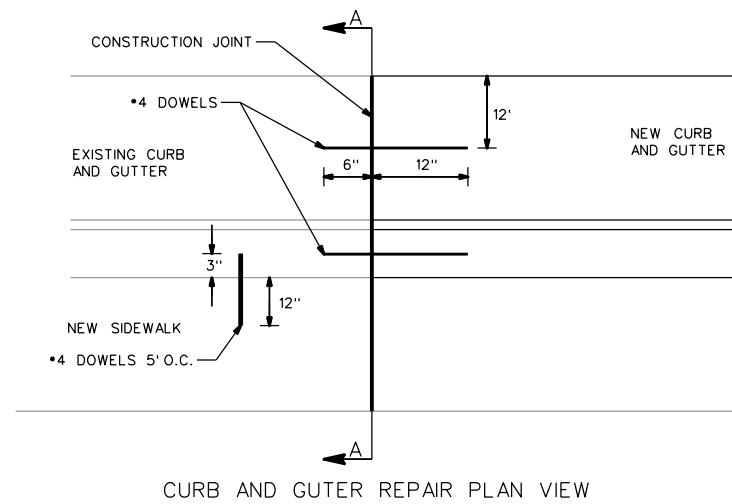


3 WEEP HOLE DRAIN IN DRAINAGE STRUCTURES
2 NTS



NOTE: AT LEAST TWO COURSES OF ROCKS SHALL BE INSTALLED, WITH THE BOTTOM COURSE BEING LARGER-DIMENSIOND ROCKS FIRMLY SEATED INTO THE EMBANKMENT

4 ROCK SLOPE PROTECTION
5



5 TYPICAL CURB, GUTTER AND SIDEWALK REPAIR DETAIL
5

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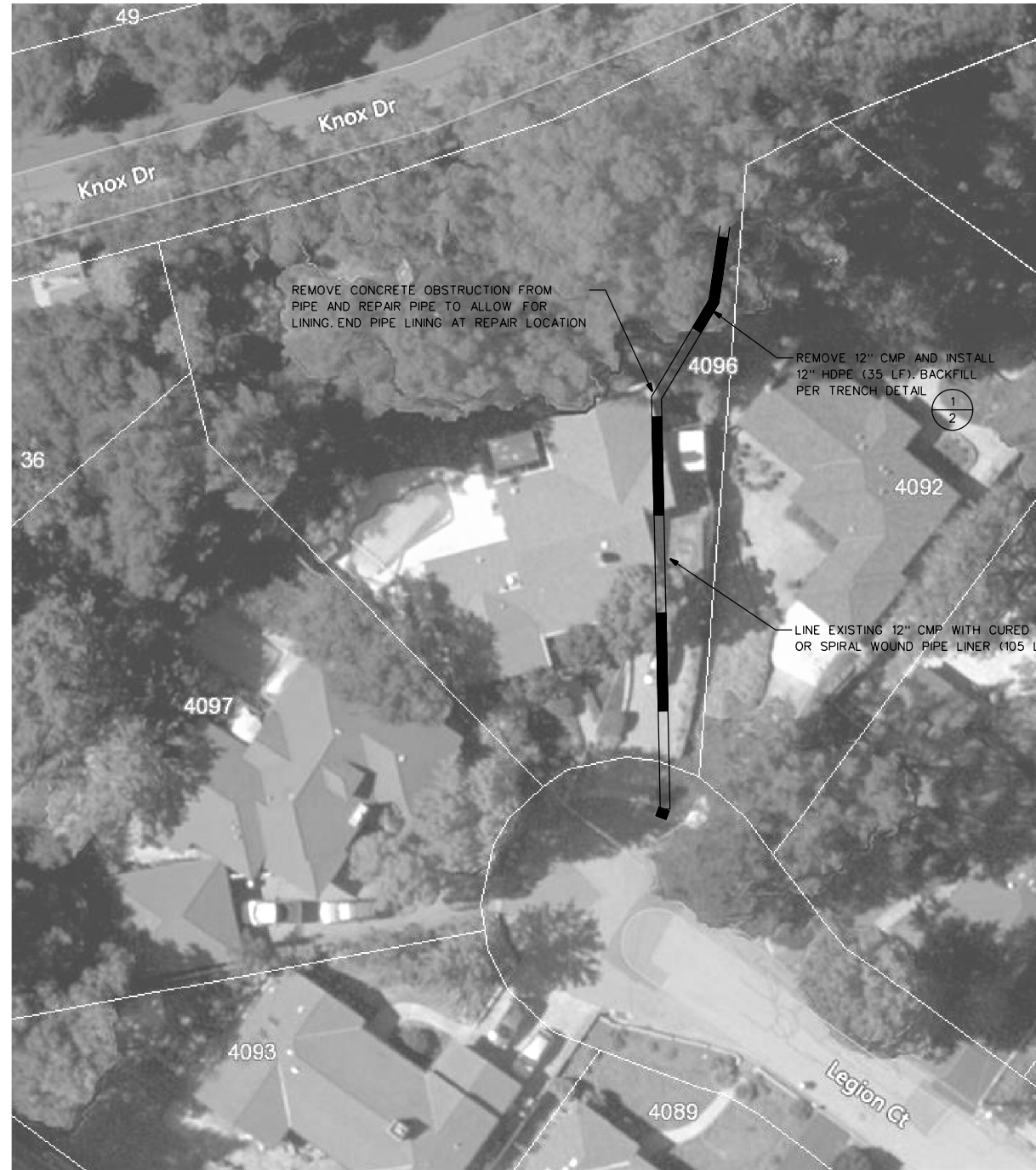
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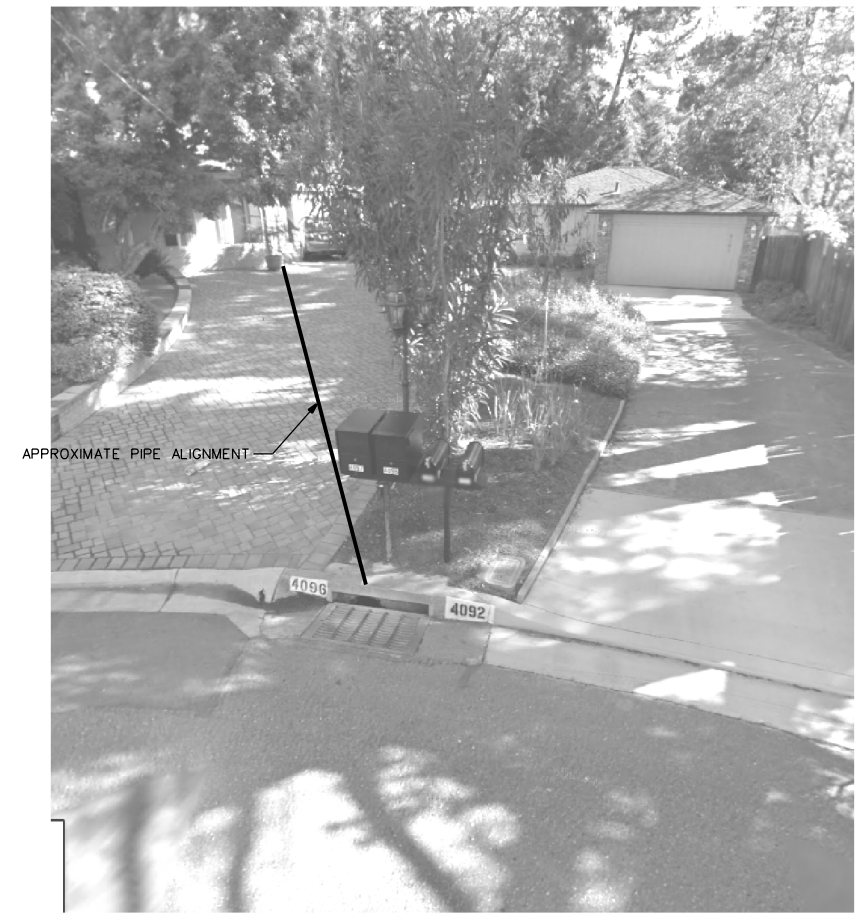
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 CONTRA COSTA COUNTY CALIFORNIA

CONSTRUCTION DETAILS
 SCALE: NTS
 SHEET 2 of 10

NOTE:
DOWNSTREAM PIPE ACCESS OFF KNOX DRIVE
IS POSSIBLE



PLAN VIEW
NTS



ENTRANCE TO STORM DRAIN SYSTEM IN LEGION COURT

NOTE: MAXIMUM DEPTH OF COVER APPROXIMATELY 7 FEET

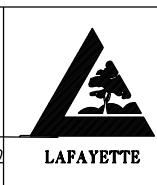


OUTFALL FROM LEGION COURT

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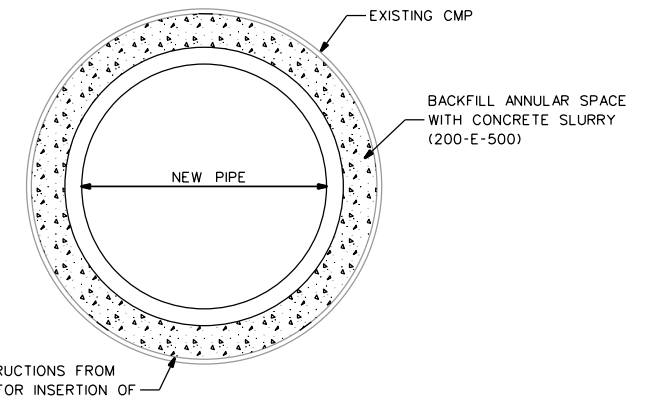
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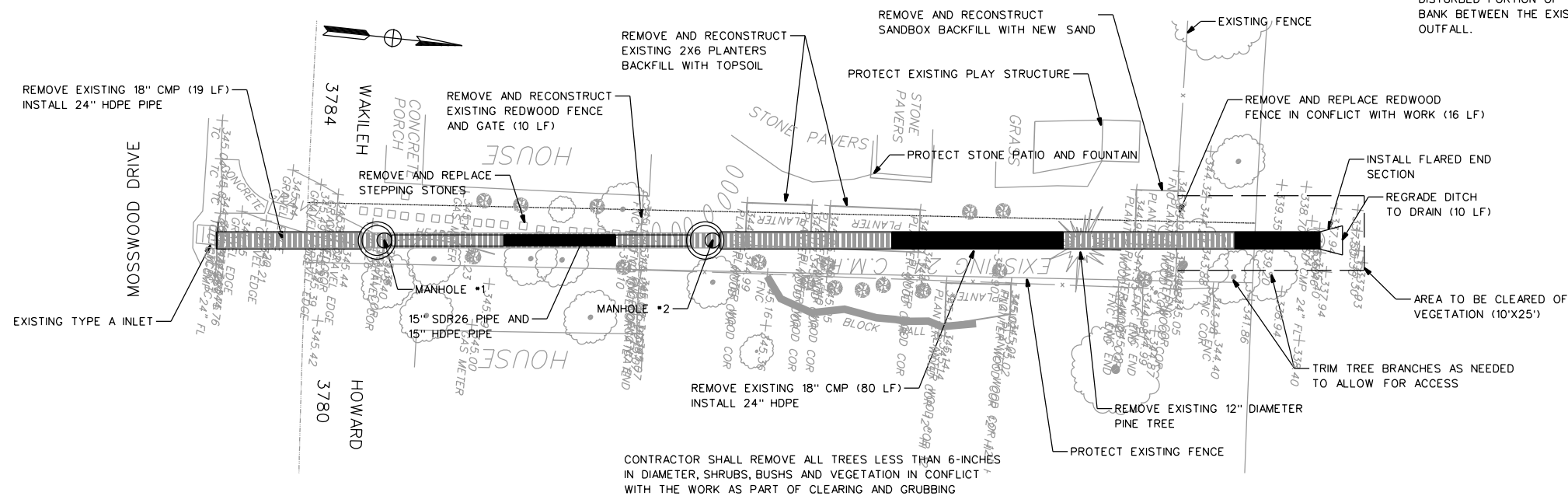
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LOCATION #1
 4096 LEGION COURT
 SCALE: NTS
 SHEET 3 of 10

- NOTE:
- 3-15 GAL OAK TREES SHALL BE PLANTED AS DIRECTED BY THE ENGINEER BETWEEN THE EXISTING FENCE AND THE CREEK CHANNEL TO THE NORTH.
 - JUTE NETTING SHALL BE APPLIED OVER THE DISTURBED PORTION OF THE SECONDARY CREEK BANK BETWEEN THE EXISTING FENCE AND THE PIPE OUTFALL.



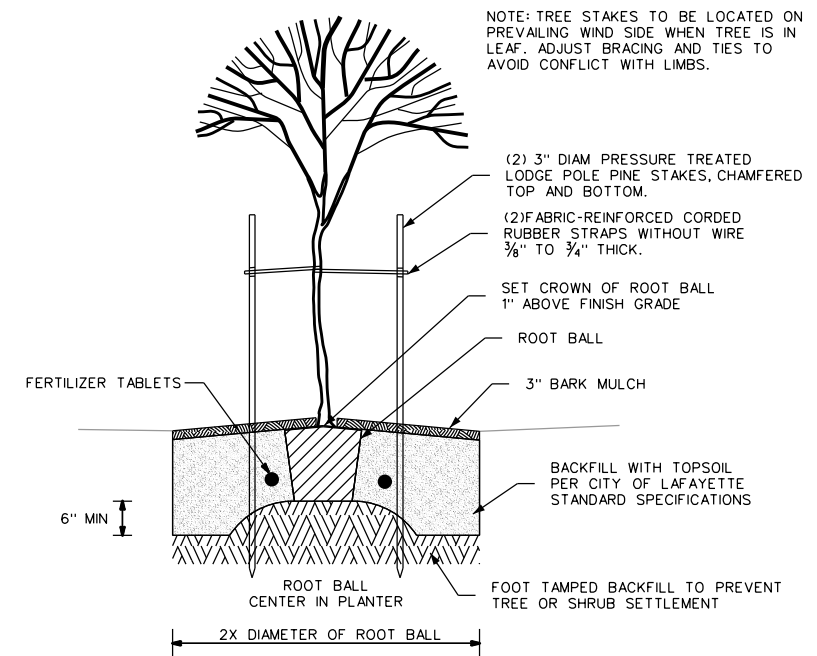
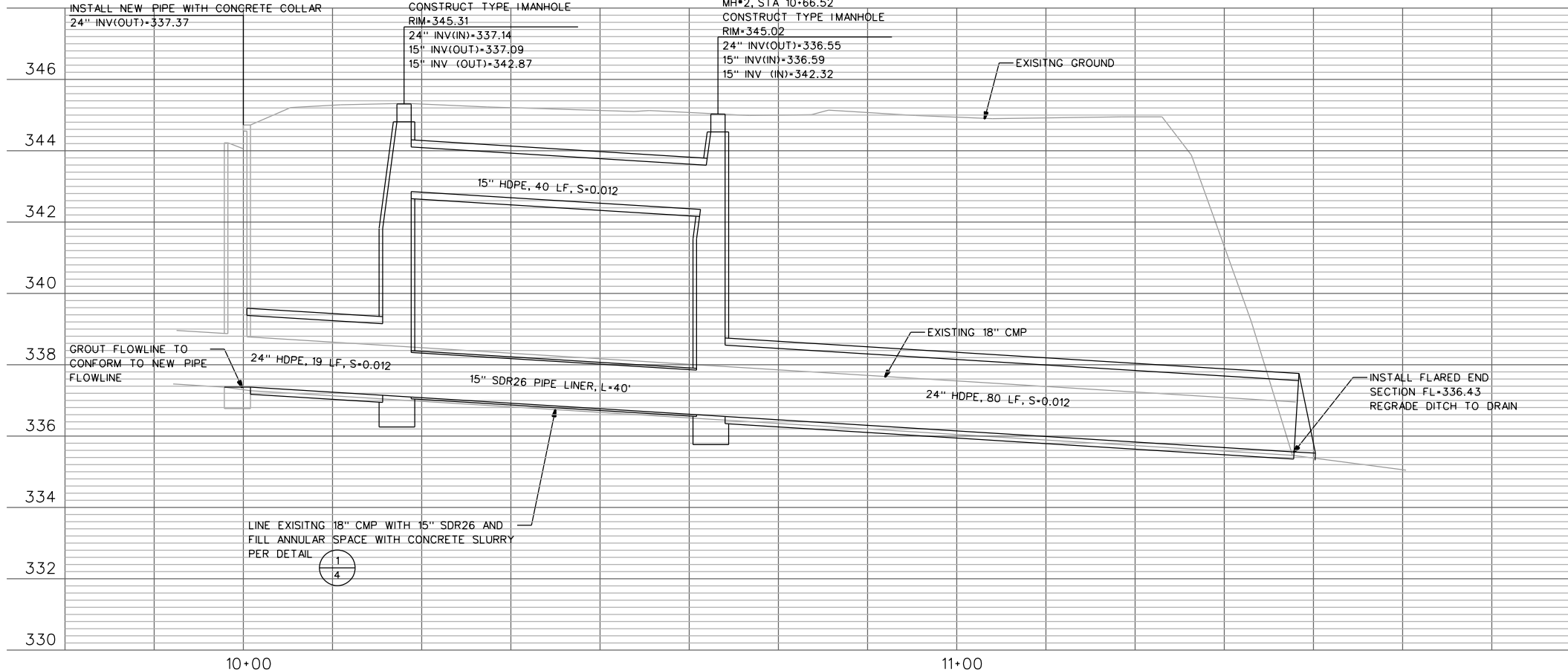
1
4
PIPE LINING IN
CORRUGATED METAL PIPE



EXISTING TYPE A INLET, STA 10+00
BREAK INTO EXISTING DRAINAGE INLET
INSTALL NEW PIPE WITH CONCRETE COLLAR
24" INV(OUT)=337.37

MH*1, STA 10+22.52
CONSTRUCT TYPE I MANHOLE
RIM=345.31
24" INV(IN)=337.14
15" INV(OUT)=337.09
15" INV (OUT)=342.87

MH*2, STA 10+66.52
CONSTRUCT TYPE I MANHOLE
RIM=345.02
24" INV(OUT)=336.55
15" INV(IN)=336.59
15" INV (IN)=342.32




NOTE: STAKING IS NOT REQUIRED FOR BUSHES AND SHRUBS


TREE AND SHRUB PLANTING DETAIL

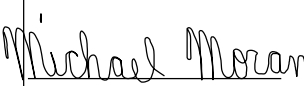
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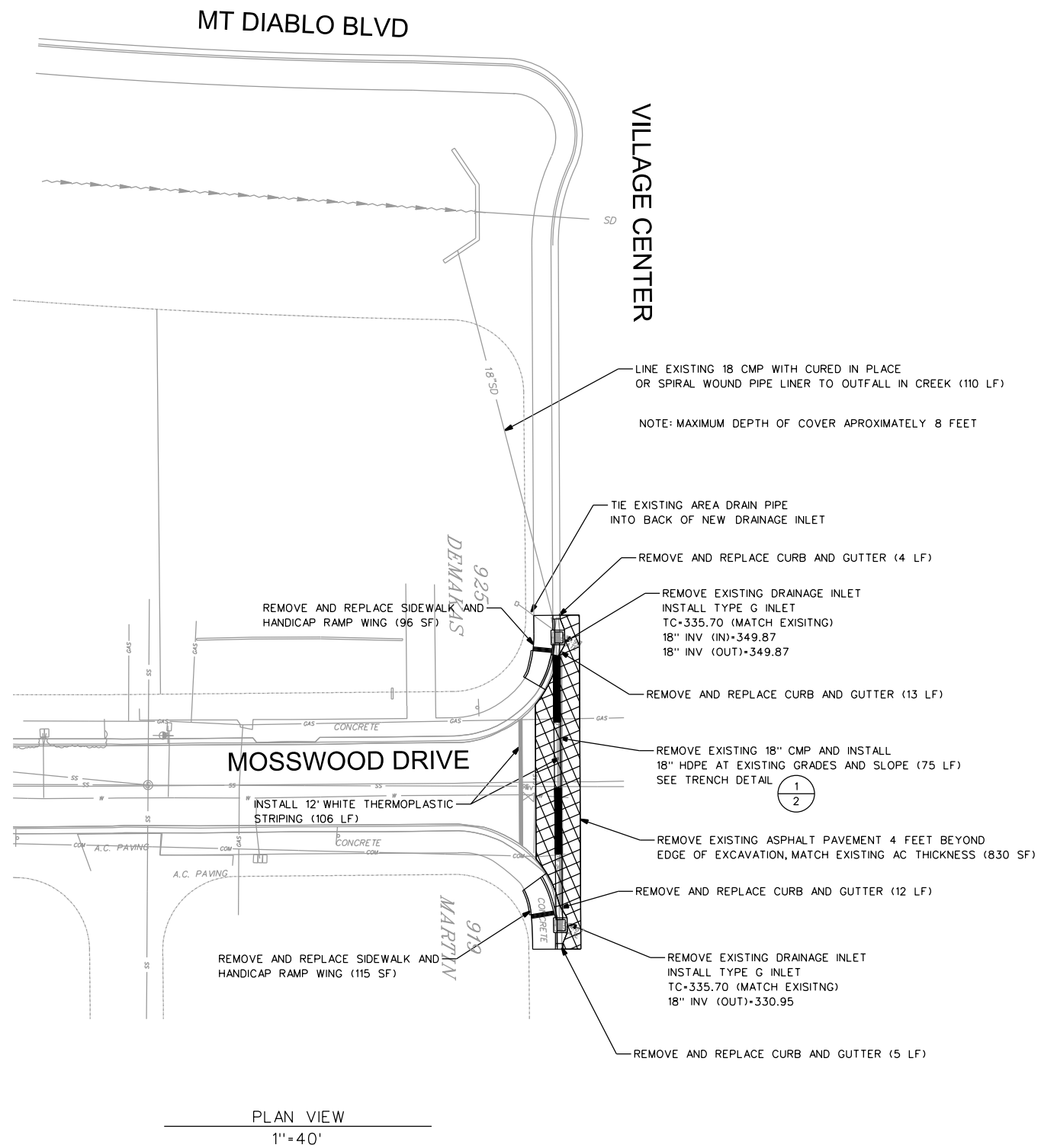



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LOCATION #2
 3784 MOSSWOOD DRIVE
 SCALE: H:1"=20' V:1"=4'
 SHEET 4 of 10

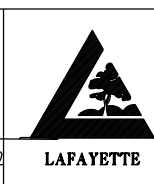


LOCATION MAP

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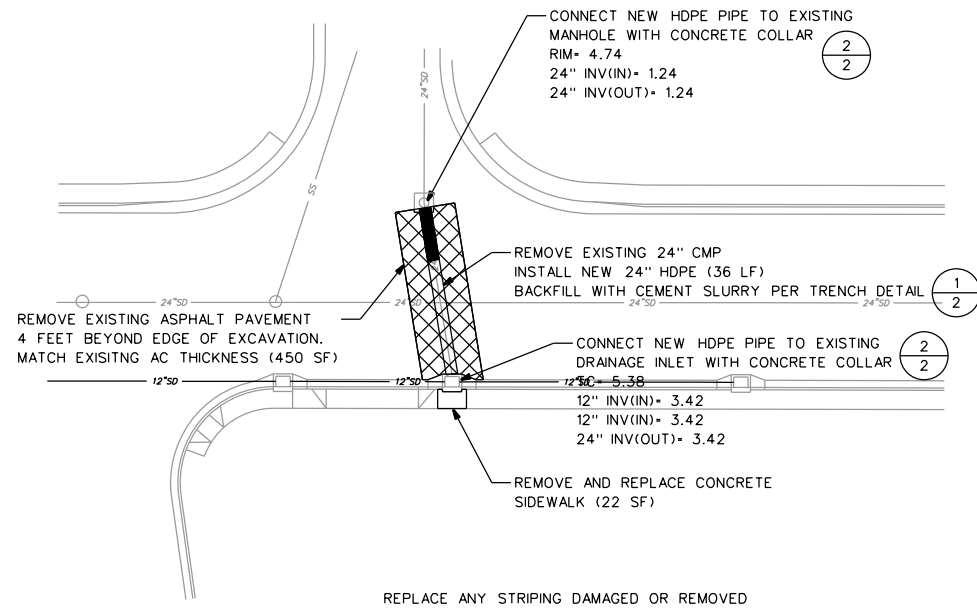
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LOCATION #3
 VILLAGE CENTER AT
 MOSSWOOD DRIVE
 SCALE: H: 1" = 40'
 SHEET 5 of 10



PLAN VIEW
1"=40'

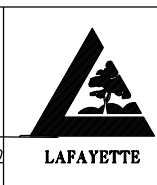


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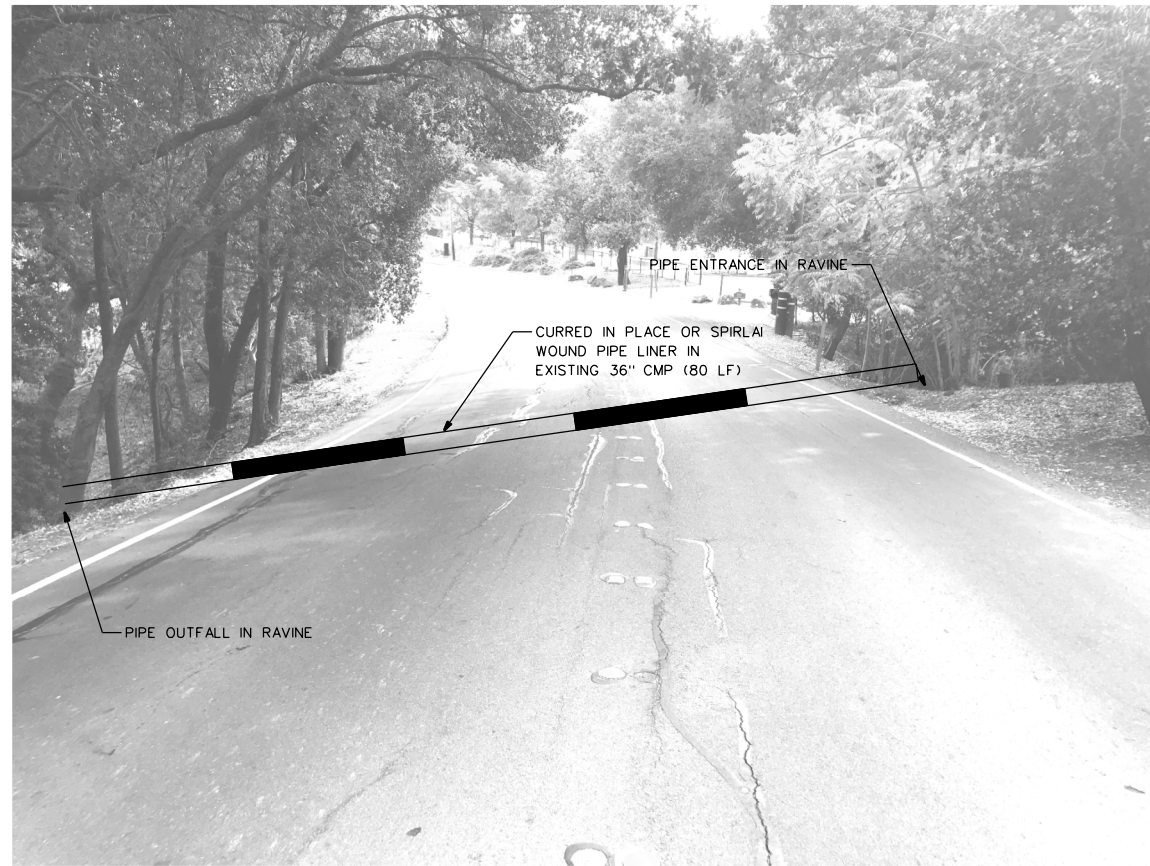


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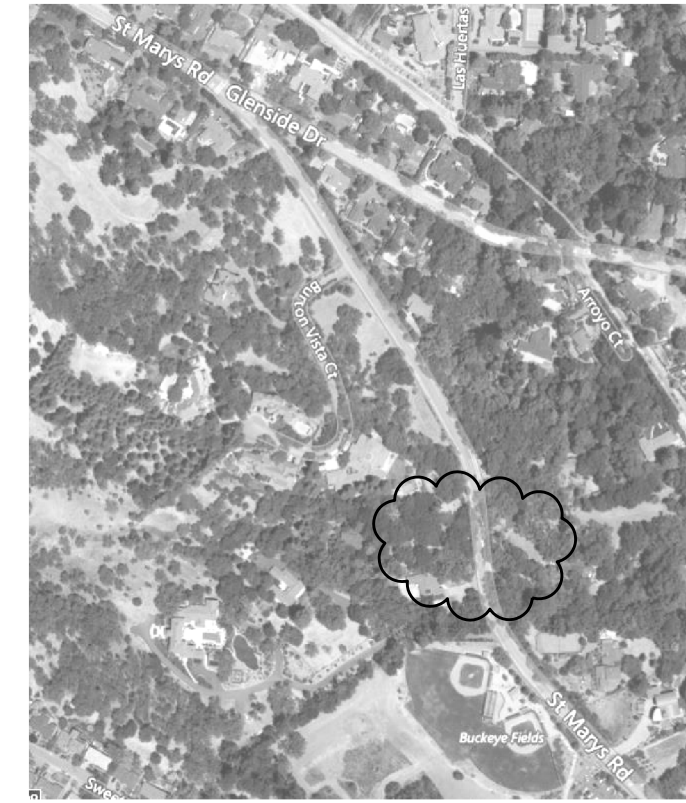
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LOCATION #4
 SCHOOL STREET AT AVALON
 SCALE: H:1"=40'
 SHEET 6 of 10

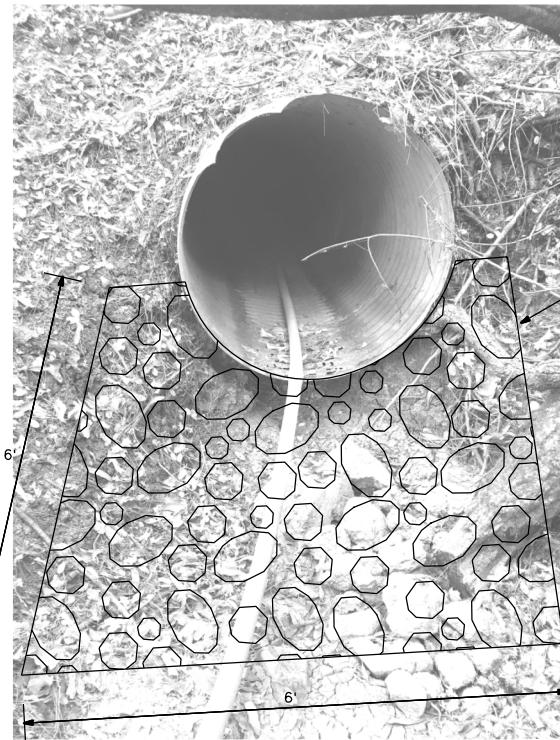


PLAN VIEW

NOTE: MAXIMUM DEPTH OF COVER APPROXIMATELY 15 FEET



LOCATION MAP



PIPE OUTFALL

INSTALL FACE CLASS ROCK TO FILL OUTFALL AREA FLUSH WITH PIPE FLOW LINE. SEE DETAIL

4/5



PIPE ENTRANCE

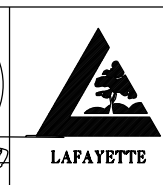
EXCAVATE AROUND EXISTING PIPE ENTRANCE AND PLACE FACING CLASS ROCK ENTRANCE. SEE DETAIL

4/5

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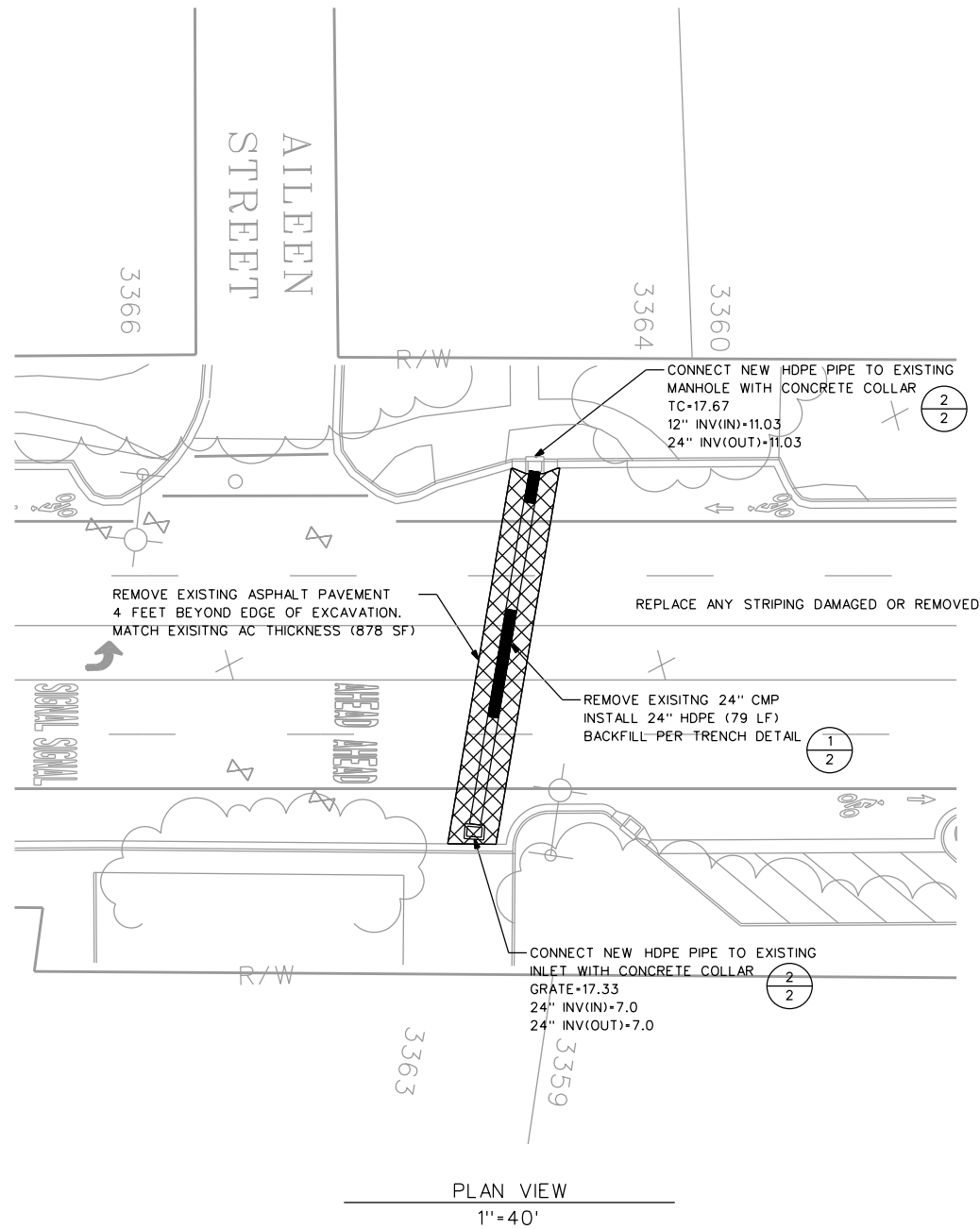


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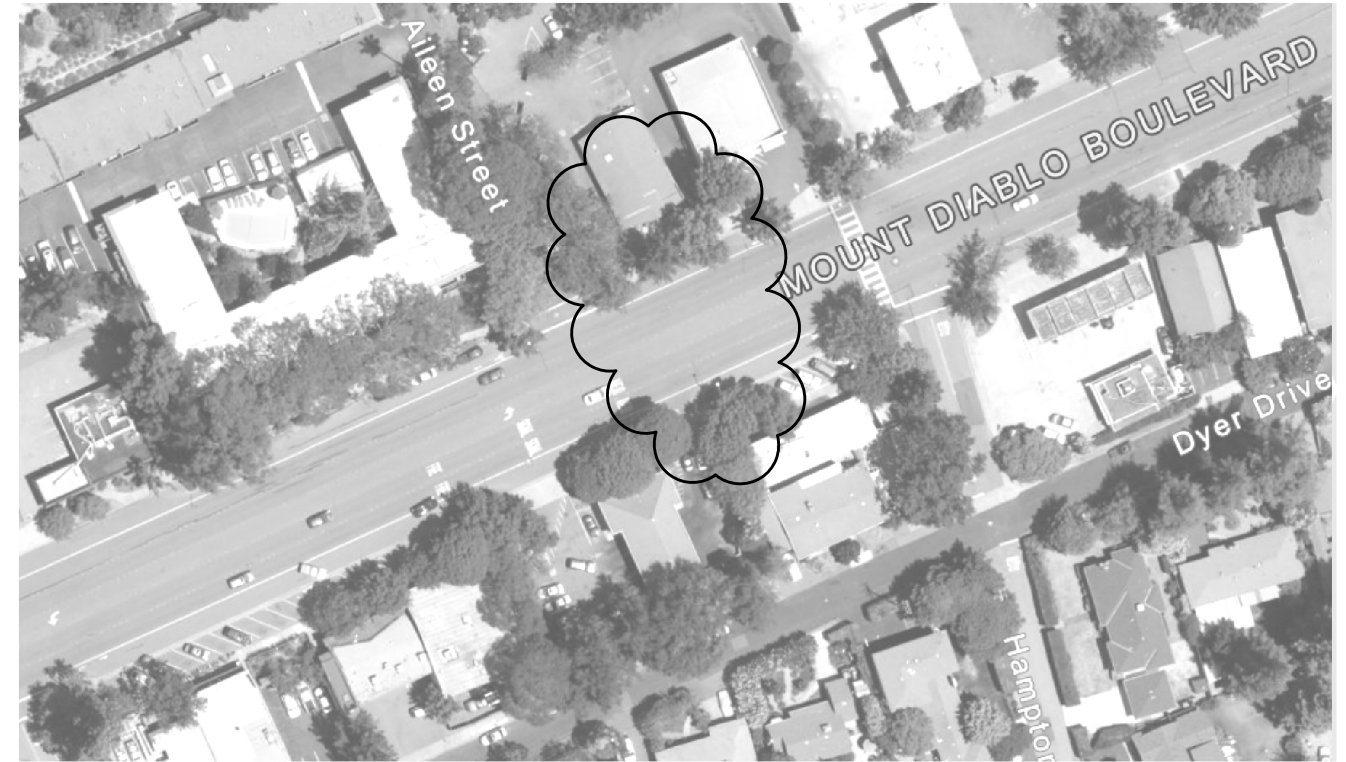
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LOCATION #5
 745 SAINT MARY'S ROAD
 SCALE: NTS
 SHEET 7 of 10



PLAN VIEW
1"=40'

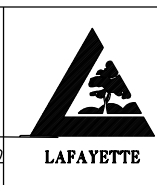


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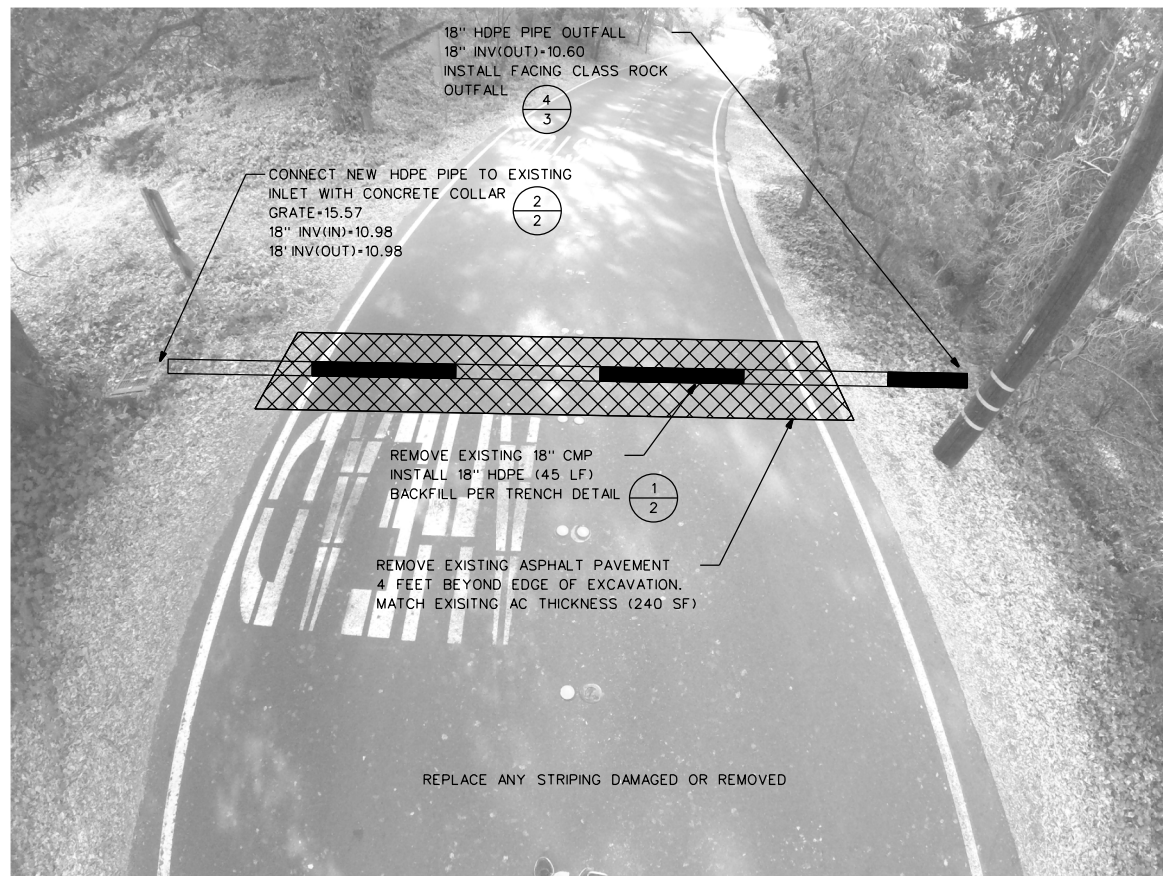
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LOCATION #6
 3364 MOUNT DIABLO BLVD
 SCALE: NTS SHEET 8 of 10



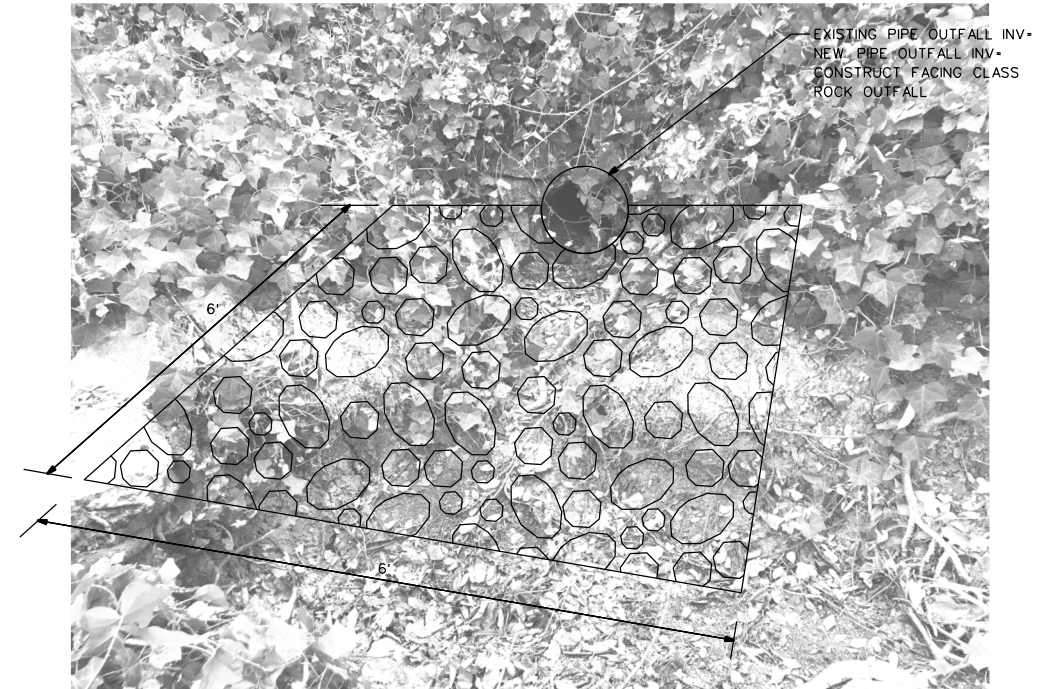
PLAN VIEW



LOCATION MAP



PIPE ENTRANCE



PIPE OUTFALL

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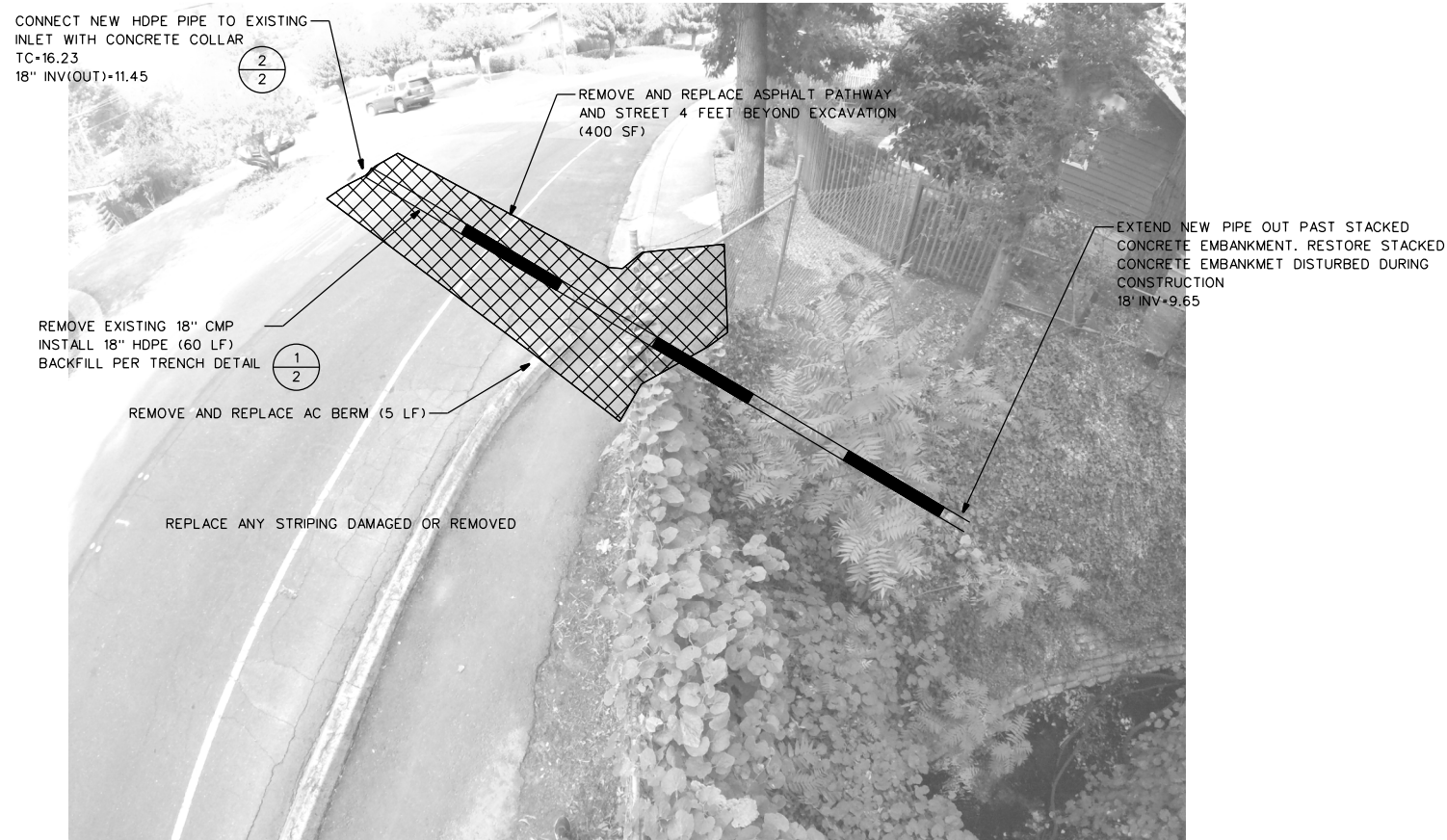
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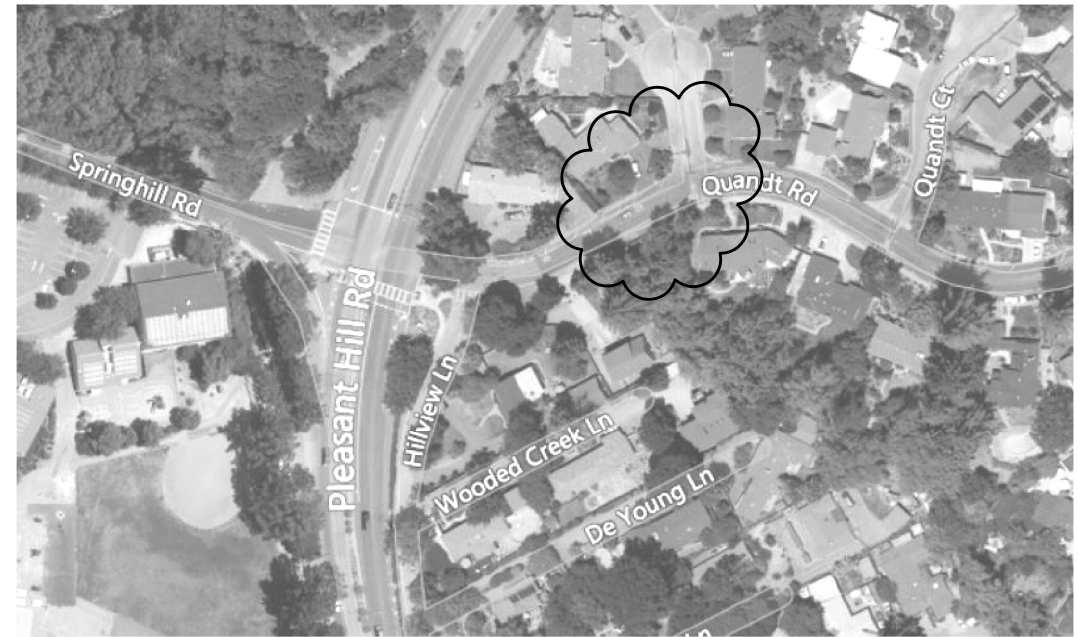
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LOCATION #7
 3140 OLD TUNNEL ROAD
 SCALE: NTS SHEET 9 of 10



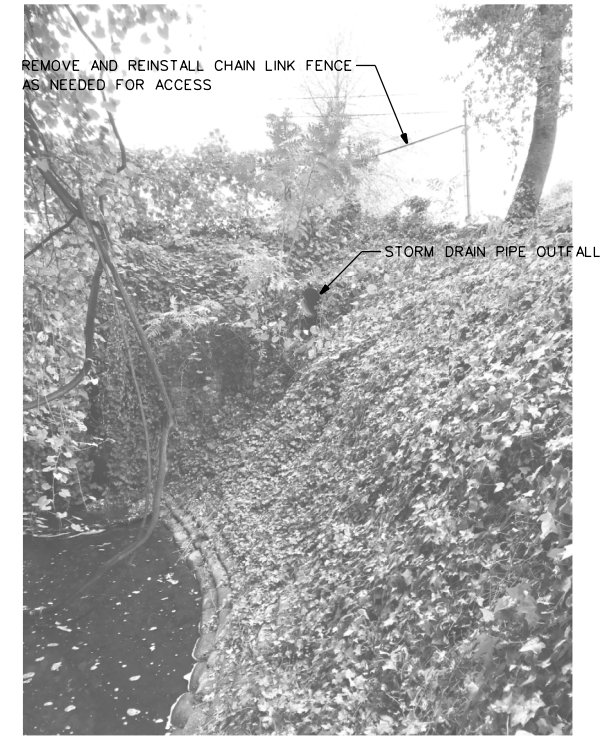
PLAN VIEW



LOCATION MAP



PIPE ENTRANCE



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LOCATION #8
 QUANDT ROAD
 SCALE: NTS SHEET 10 of 10