



North Fair Oaks Community Council
San Mateo County Coordinated
Departmental Response



DATE: January 28, 2021
NFOCC MEETING DATE: January 28, 2021
SPECIAL NOTICE/HEARING: 10 days, within 300 feet
VOTE REQUIRED: Majority

TO: Members, North Fair Oaks Community Council

FROM: Planning Staff

SUBJECT: Recommendation to the Zoning Hearing Officer for the consideration of a Minor Subdivision, pursuant to Section 7002 of the County Subdivision Regulations to subdivide a 11,780 sq. ft. parcel into four townhouse units and one common interest parcel at 20 Dexter Avenue in the unincorporated North Fair Oaks area of San Mateo County. The project includes the removal of one 30-inch dbh (diameter at breast height) redwood tree.

County File Number: PLN 2020-00097 (Ryan Lai)

PROPOSAL

The applicant proposes to subdivide an 11,780 sq. ft. legal parcel into four townhouse units and the airspace above and one common interest parcel as shows in table 1. The purpose of the subdivision is to construct 4 townhomes to be sold off separately. The townhomes would be 3 stories and all units would have a shared access off of Dexter Avenue. One 30-inch (DBH) redwood tree is proposed for removal due to poor health and proximity to the proposed structures.

Table 1 Tentative Parcel Map Proposal	
	Square Footage
Parcel A, Common Interest Parcel	6,544
Unit 1	1,155
Unit 2	1,175
Unit 3	1,175
Unit 4	1,372

RECOMMENDATION

That the North Fair Oaks Community Council provide a recommendation to the Zoning Hearing Officer on the proposed Minor Subdivision.

BACKGROUND

Report Prepared By: Kanoa Kelley, Project Planner, kkelley@smcgov.org

Applicant/Owner: Ryan Lai

Location: 20 Dexter Avenue, North Fair Oaks. At the intersection of E. Selby Lane and Dexter Avenue

APN: 060-273-140

Parcel Size: 11,780 sq. ft.

Existing Zoning: R-3/S-5 (Multiple Family Residential, Minimum Lot size 5,000 sq. ft.)

General Plan Designation: Medium High Density Residential, Urban (8.8-17.4 dwelling units/acre)

Parcel Legality: The parcel was developed with a single family residence constructed in 1929.

Sphere-of-Influence: Redwood City

Existing Land Use: Single-Family Residential

Water Service: California Water Service, Bear Gulch

Sewage Disposal: Fair Oaks Sewer Maintenance District

Fire Authority: Menlo Park Fire Protection District

Flood Zone: FEMA Designation: Flood Zone X (Areas of Minimal Flooding), FEMA Panel No. 06081C0302E and 06081C0304E, effective October 16, 2012.

Environmental Evaluation: The project is categorically exempt, pursuant to the California Environmental Quality Act (CEQA) Guidelines, Section 15315 (Class 15), related to minor division of land (into four or fewer parcels), as the division is in conformance with the General Plan and zoning, no variances or exceptions are required, all services and access to the proposed parcels to local standards are available, the parcel was not involved in a division of a larger parcel within the previous 2 years, and the parcel does not have an average slope greater than 20 percent.

Setting: The subject parcel is located at 20 Dexter Avenue in the unincorporated North Fair Oaks area of San Mateo County. The 11,780 sq. ft. parcel is currently developed with a 2,799 square foot triplex, the building remains vacant with no tenants living on site. A building permit to demolish the existing building is currently under review (BLD 2020-00297). The parcel is surrounded by single-family homes in the NMU-1 and R-1 zones (Attachment A- Vicinity Map and Aerial Photo).

DISCUSSION

A. KEY ISSUES

1. Conformance with the General Plan

The County General Plan designates this area for Medium High Density Residential, which allows for residential development at the density of 8.8-17.4 dwelling units per acre. Based on the allowed density range, 2.37-4.7 units are permitted on the 11,780 (.27 acres) square foot parcel. Therefore, the proposed 4 units are consistent with the general plan density. All public services and infrastructure are available to serve the proposed parcels.

General Plan Policy 8.30 (*Infilling*) encourages the infilling of urban areas where infrastructure and services are available. The project was reviewed by the applicable water and sanitary districts; both districts stated that there is adequate capacity to provide respective service to the additional units. Additionally, the General Plan encourages increasing urban densities by redeveloping underutilized parcels, such as proposed with this project, as it is more cost effective than building new communities and their related infrastructure.

2. Conformance with the North Fair Oaks Community Plan

The North Fair Oaks (NFO) Community Plan identifies the parcel with a Multi-family Residential land use designation. The multi-family residential designation requires 24-60 dwelling units per acre. While the 0.27-acre parcel would need to supply a minimum of 6.5 units to comply with the NFO Community Plan designation, the project otherwise conforms with General Plan and zoning densities. The NFO Community Plan designation was intended to consolidate the medium-high and high density general plan land use designations. Therefore, while the project does not conform with the specified minimum Community Plan density of 24 units per acre, staff finds that the project is in substantial conformance with the intent of the Community Plan's Multi-family Residential land use designation as the project will result in an increase in the number of entry level housing units available.

3. Compliance with Zoning Regulations

The subject parcel is zoned R-3/S-5 (Multiple Family Residential/S-5 Combining District). The applicant submitted a footprint analysis that includes the building envelope of the 4 townhouse units (shown in Attachment B); the building envelope is compliant with R-3/S-5 Zoning Standards as shows in Table 2 below.

The project is exempt from the minimum lot size requirements per Section 7020.2.b of the County Subdivision Regulations which exempts single-family attached residential from these provisions.

Table 2 S-5 Combining District Standards		
	S-5 Development Standards	Proposed
Minimum Site Area	5,000 sq. ft.	11,780 sq. ft. (legal parcel)
Average Width	50 feet	67.49 feet
Minimum Lot Area Per Dwelling Unit	2,500 sq. ft.	2,945 sq. ft.
Minimum Front Setback	20 ft.	20 ft.
Minimum Rear Setback	20 ft.	20 ft.
Minimum Right Side Setback	5 ft.	5 ft.
Minimum Left Side Setback	5 ft.	24 ft.
Maximum Building Height	36 feet/3 stories	34 Feet 3 inches, 3 stories

Table 2 S-5 Combining District Standards		
	S-5 Development Standards	Proposed
Maximum Coverage Permitted	50%	35%

Parking Compliance

The townhome development plans show each townhome unit with a two (2) car garage. Per the San Mateo County Zoning Regulations, Chapter 3, Section 6119 (Parking Spaces Required), two (2) spaces are required for each dwelling unit having 2 or more bedrooms. Each of the townhome units will have 3 bedrooms requiring a total of 8 parking spaces. The townhome development will provide 2 covered parking spaces per unit within individual private garages. The anticipated townhome development would conform with County parking requirements.

4. Conformance with Subdivision Regulations

The proposed tentative parcel map (Attachment B) for the minor subdivision has been reviewed by staff under the provisions of the County Subdivision Regulations which implement the Subdivision Map Act (Section 66410, et seq., of the Government Code of the State of California). The County's Building Inspection and Drainage Section, Department of Public Works, and the Menlo Park Fire Protection District, Fair Oaks Sewer Maintenance District, and California Water Service have also reviewed and provided conditional approval for the project.

A preliminary soils report was reviewed and approved by the Planning and Building Department's Geotechnical Section, with a condition that additional analysis would be required during the building permit phase for the residential structures. Additionally, a conceptual drainage plan has been reviewed and approved with conditions by the Drainage Section that require submittal of a drainage analysis by a registered civil engineer along with the building permit application for the townhomes.

The following findings as defined in Section 7013.3.b. of the Subdivision Regulations are required for subdivision approval:

Subdivision Findings:

- 1-2. That the proposed map and the design and improvement of the proposed subdivision is consistent with applicable general and specific plans. As discussed in Section A.1 and A.2, the County General Plan

designates this area as Medium High Density Residential, 8.8-17.4 dwelling units per acre. The proposed density, after subdivision, would be 14.8 dwelling units per acre, which is within the allowed General Plan range. The North Fair Oaks Community Plan designates the parcel as Multi-family Residential, 24 – 60 dwelling units per acre, however, this community plan designation was intended to consolidate the General Plan land use designations of Medium-High and High Density Residential. Therefore, while the project does not conform with the minimum Community Plan density of 24 units per acre, the project results in an increase in the number of housing units on site and is in substantial conformance with the General Plan and the intent of the NFO Community Plan's Multi-Family Residential land use designation. Additionally, all public services and infrastructure are available to serve the proposed lots.

- 3-4. That the site is physically suitable for the type and proposed density of development. The proposed subdivision is in an established residential neighborhood and complies with zoning and general plan density requirements. The site is therefore physically suitable for the type and the proposed density of development. Utility connections are also available to serve future development. The applicant is required to confirm the availability of sewer and water connections for both parcels prior to recordation of the parcel map.
5. That the design of the subdivision or type of improvements is not likely to cause substantial environmental damage or substantially and avoidably injure fish or wildlife or their habitat.

The design of the subdivision and the proposed improvements would not substantially injure fish or wildlife or their habitat, as the site is not located within 100 feet of any water bodies or sensitive habitat areas. Additionally, the project would be required to minimize the transport and discharge of pollutants from the project site into local storm drain systems and water bodies by adhering to the San Mateo Countywide Stormwater Prevention Programs and General Construction and Site Supervision Guidelines throughout the duration of subdivision improvements.

6. That the design of the subdivision or type of improvements is not likely to cause serious public health problems. There is no evidence to suggest that the project would create a public health problem or cause substantial environmental damage.
- 7-8. That the design of the subdivision or the type of improvements will not conflict with easements acquired by the public-at-large for access through or use of property within the proposed subdivision. There are

no existing access easements on the parcel.

9. That the discharge of waste from the proposed subdivision into an existing community sewer system would not result in violation of existing requirements prescribed by a State Regional Water Quality Control Board pursuant to Division 7 (commencing with Section 13000) of the State Water Code. The Fair Oaks Sewer Maintenance District has indicated that sewer capacity is available.
 10. That, since the land is not subject to a Williamson Act Contract, the finding regarding Williamson Act Contract compliance related to sustaining agricultural use is not applicable.
 11. That, since the land is not located in a very high fire hazard severity zone or state responsibility area, as defined in Section 51177 of the California Government Code, the project is not subject to the fire safety provisions of Section 7013.3.c.(11)(a-c) of the County Subdivision Regulations.
 12. That, since the proposed subdivision does not include land designated in the County General Plan as open space and is not located in a state responsibility area or a very high fire hazard severity zone, the finding regarding consistency with open space purposes and the requirement for a recorded restriction prohibiting the development of a habitable, industrial or commercial building or structure is not applicable.
 13. That pursuant to Section 7005 of the Subdivision Regulations, in carrying out the provisions of the Subdivision Regulations, the County has considered the effect of actions taken pursuant to these regulations on the housing needs of the region and the housing needs of the County as expressed in the Housing Chapter of the County's General Plan and has balanced these needs against the public service needs of residents. The proposed subdivision will support an increase in housing supply in the North Fair Oaks area that is expected to be more affordable as townhome units than individual detached single-family residences.
5. Compliance with In-Lieu Park Fees

Section 7055.3 (Fees In-Lieu of Land Dedication) of the County Subdivision Regulations requires that, as a condition of approval of the tentative map, the subdivider pay an in-lieu fee prior to recordation of the Final Parcel Map. This fee is for acquisition, development or rehabilitation of County parks and recreation facilities, and/or to assist other providers of park and recreation facilities to acquire, develop or rehabilitate facilities that will serve the proposed subdivision. The section further defines the formula for calculating

this fee. The fee for this subdivision is \$147,033; however, fees are based on the current land value provided by the County Assessor's Office at the time of payment and are subject to change. A worksheet showing the prescribed calculation is shown in Attachment D.

6. Tree Removal Protection and Replacement

Section 12,2012 of the County Significant Tree Ordinance define a "Significant Tree" as a live woody plant rising above the ground with a single stem or trunk of a circumference of 38 inches or more (or 12 inches in diameter) measured at 4 1/2 feet vertical above ground. All significant trees require a permit for removal.

The applicant proposes to remove one 30-inch (DBH) redwood tree due to the proximity to the project and the poor health as documented by the arborist report prepared by Kielty Arborist Services, dated November 18, 2019 (Attachment C-Arborist Report). In order to maximize the use of the parcel and remove risk of property damage, this tree removal is requested. Additionally, around April of 2019 one significant sized redwood tree on the property was previously removed without the benefit of a permit.

The driveway which will provide access to the townhomes will be in the same area as the current driveway. The current driveway is gravel and will be replaced with a paved driveway. According to the arborist report the driveway may impact the root systems of trees adjacent to the driveway. The arborist report recommends a maximum excavation depth of 6 inches and the application of a geotextile underneath to reduce compaction and minimize impact to these trees. The recommendations will be implemented in the final driveway design.

B. ZONING HEARING OFFICER (ZHO) HEARING AND COMMUNITY MEETING

This item has been continued from the December 17, 2020 ZHO meeting to February 4, 2021 to allow the North Fair Oaks Community Council the opportunity to review the project on January 28, 2021. On January 12, 2021 staff conducted a community meeting to introduce the neighborhood to the project and allow participants to provide feedback. In general, the community was concerned with the preservation of trees and the ability of the 3 story project to fit into the character of the neighborhood

C. ENVIRONMENTAL REVIEW

The project is categorically exempt, pursuant to the California Environmental Quality Act (CEQA) Guidelines, Section 15315 (Class 15), related to minor division of land (into four or fewer parcels), as the division is in conformance with the General Plan and zoning, no variances or exceptions are required, all services and access to the proposed parcels to local standards are available, the parcel was not involved in a division of a larger parcel within the previous 2 years, and the parcel does not have an average slope greater than 20 percent.

REVIEWING AGENCIES

Department of Public Works
Building Inspection Section
Geotechnical Section
Drainage Section
Menlo Park Fire Protection District
Fair Oaks Sewer District
California Water Service- Bear Gulch District

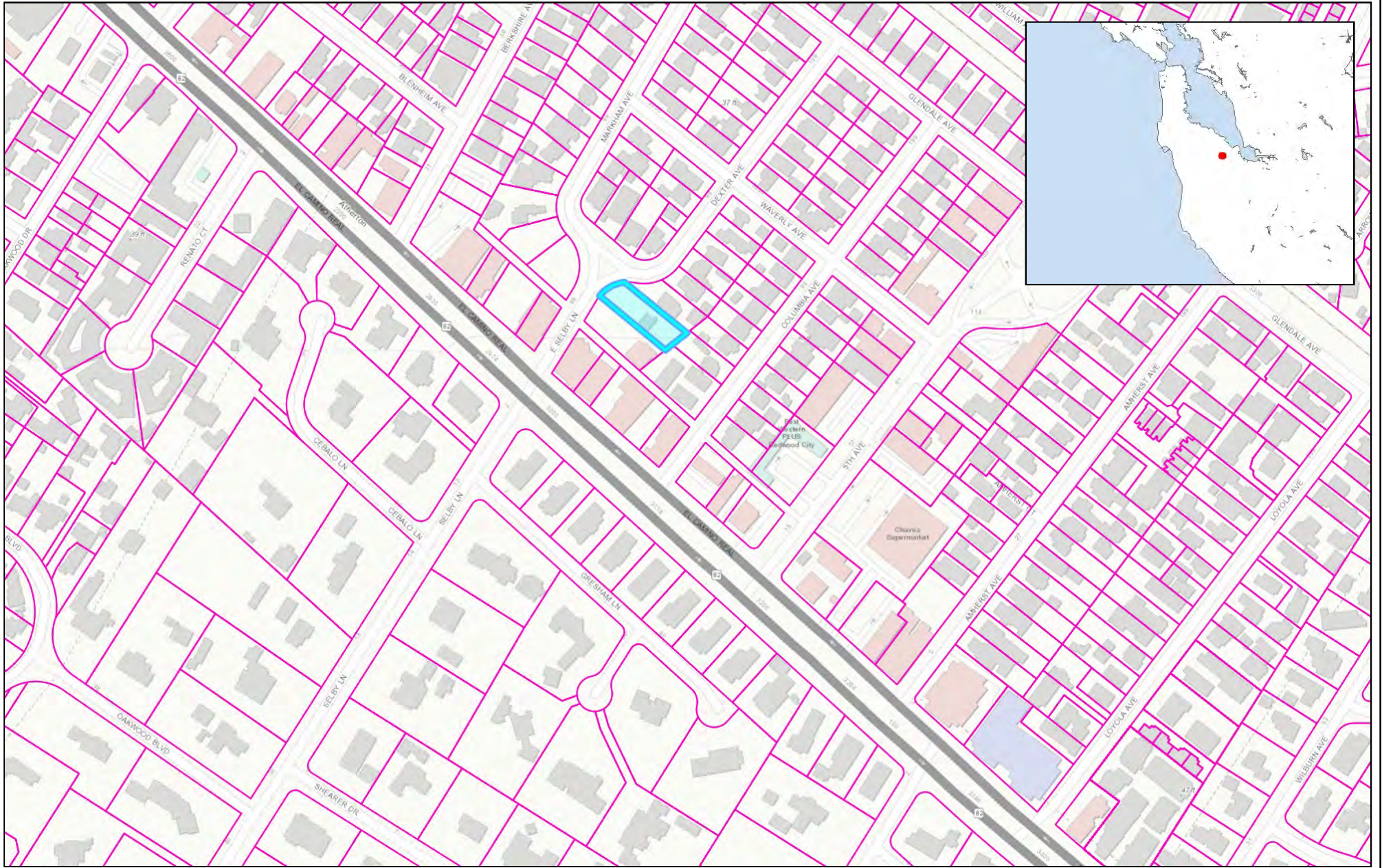
ATTACHMENTS

- A. Vicinity and Aerial Map
- B. Proposed Tentative Parcel Map
- C. Arborist Report
- D. In-Lieu Park Fee Worksheet



County of San Mateo - Planning and Building Department

ATTACHMENT A



0.14 0 0.07 0.14 Miles

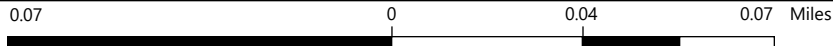
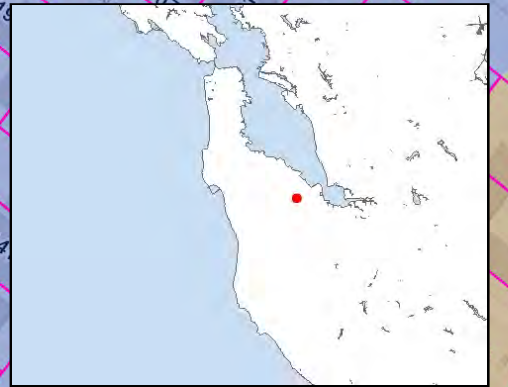
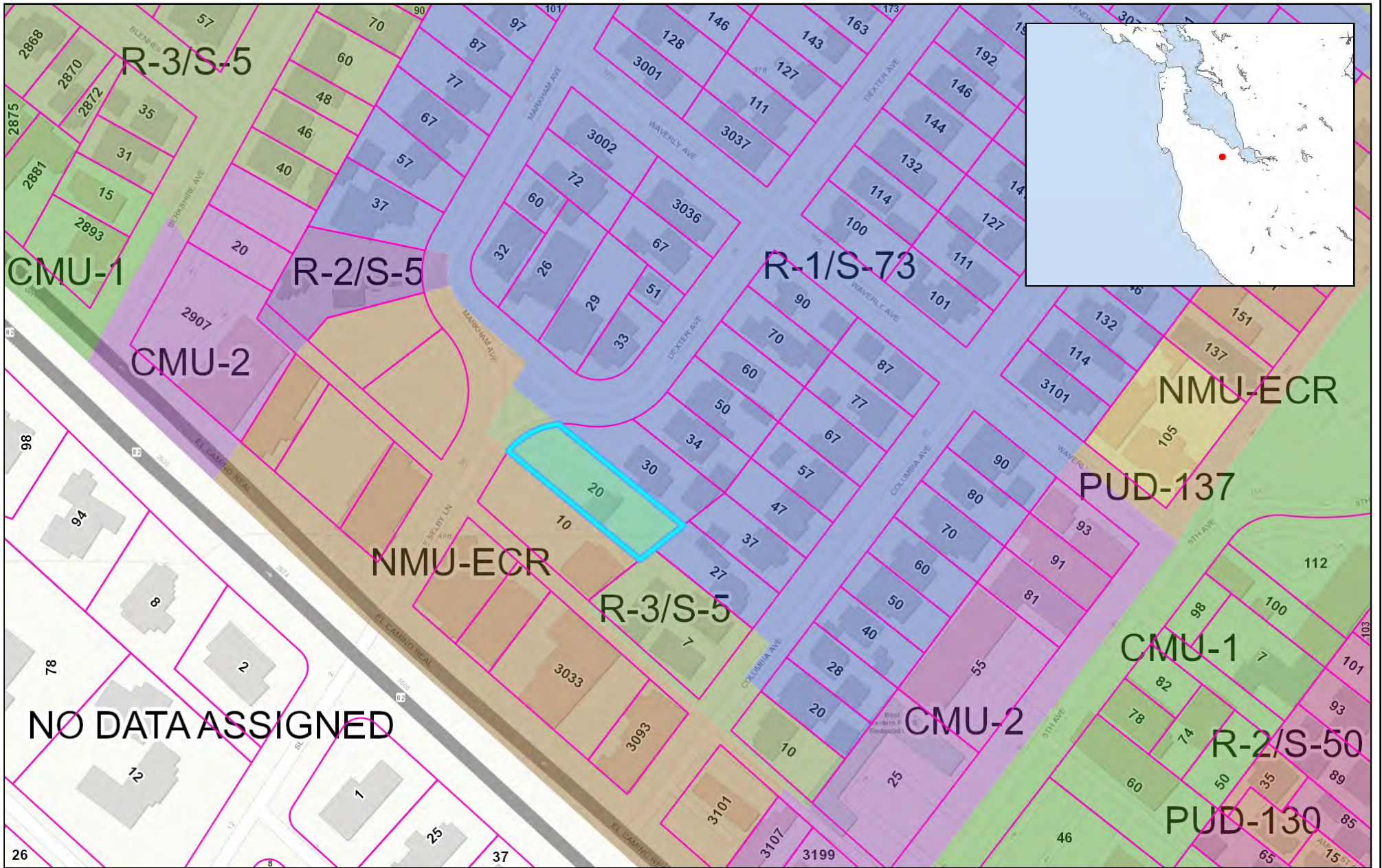
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© Latitude Geographics Group Ltd.

1:4,514



This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

THIS MAP IS NOT TO BE USED FOR NAVIGATION



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1:2,257

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

THIS MAP IS NOT TO BE USED FOR NAVIGATION

An aerial photograph of a residential neighborhood. A blue callout bubble with a white border and a tail pointing to a specific location contains the text "20 Dexter Avenue". The neighborhood features a mix of single-story houses with various roof colors (grey, brown, red) and larger multi-story buildings. There are numerous trees, parking lots, and streets visible. A large road with multiple lanes runs diagonally across the bottom left of the image. A blue swimming pool is visible in the lower right quadrant.

20 Dexter Avenue



County of San Mateo - Planning and Building Department

ATTACHMENT B

**20 DEXTER AVENUE
TENTATIVE MAP LOT SUMMARY**

RESIDENTIAL PARCELS			
LOT/PARCEL NO.	NO. OF LOTS	AREA ACRES	USE
1	1	0.03	LOT FOR SINGLE FAMILY TOWNHOME ATTACHED BUILDING
2	1	0.03	LOT FOR SINGLE FAMILY TOWNHOME ATTACHED BUILDING
3	1	0.03	LOT FOR SINGLE FAMILY TOWNHOME ATTACHED BUILDING
4	1	0.03	LOT FOR SINGLE FAMILY TOWNHOME ATTACHED BUILDING
*A	1	0.15	COMMON AREA RESERVED FOR FUTURE DEDICATION TO HOME OWNERS ASSOCIATION
SUBTOTAL	5	0.27	
TOTAL NUMBER OF DWELLING UNITS		4 TOTAL UNITS	

20 DEXTER AVENUE TENTATIVE MAP UNINCORPORATED SAN MATEO COUNTY, CA

PROJECT INFORMATION

PROPERTY DESCRIPTION: APN 060-273-140
EXISTING LAND USE: TWO-STORY RESIDENTIAL BUILDING
PROPOSED LAND USE: 4 TOWN HOMES AND COMMON AREA

OWNER/SUBDIVIDER: 6021 WEIYING LLC
20 DEXTER AVENUE
REDWOOD CITY, CA 94063

ENGINEER: BKF ENGINEERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650)482-6300

ACREAGE: EXISTING 0.27 AC
PROPOSED 0.27 AC

ZONING: R-3/S-5

STORM DRAIN: SAN MATEO COUNTY (NONE NEAR SITE)

SEWAGE DISPOSAL: SAN MATEO COUNTY

WATER SUPPLY: CALIFORNIA WATER SERVICE

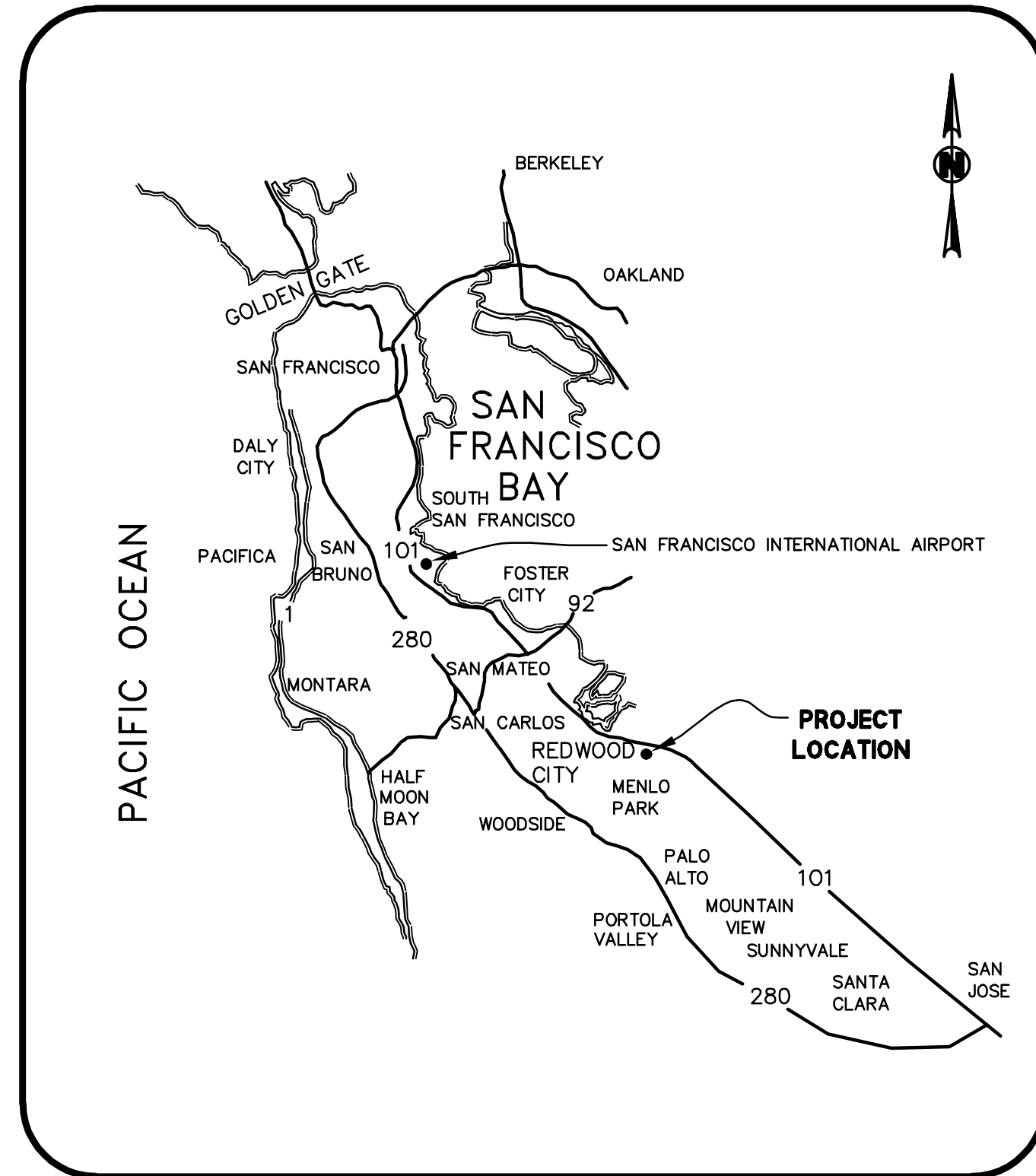
GAS AND ELECTRIC: PG&E

TELEPHONE: AT&T

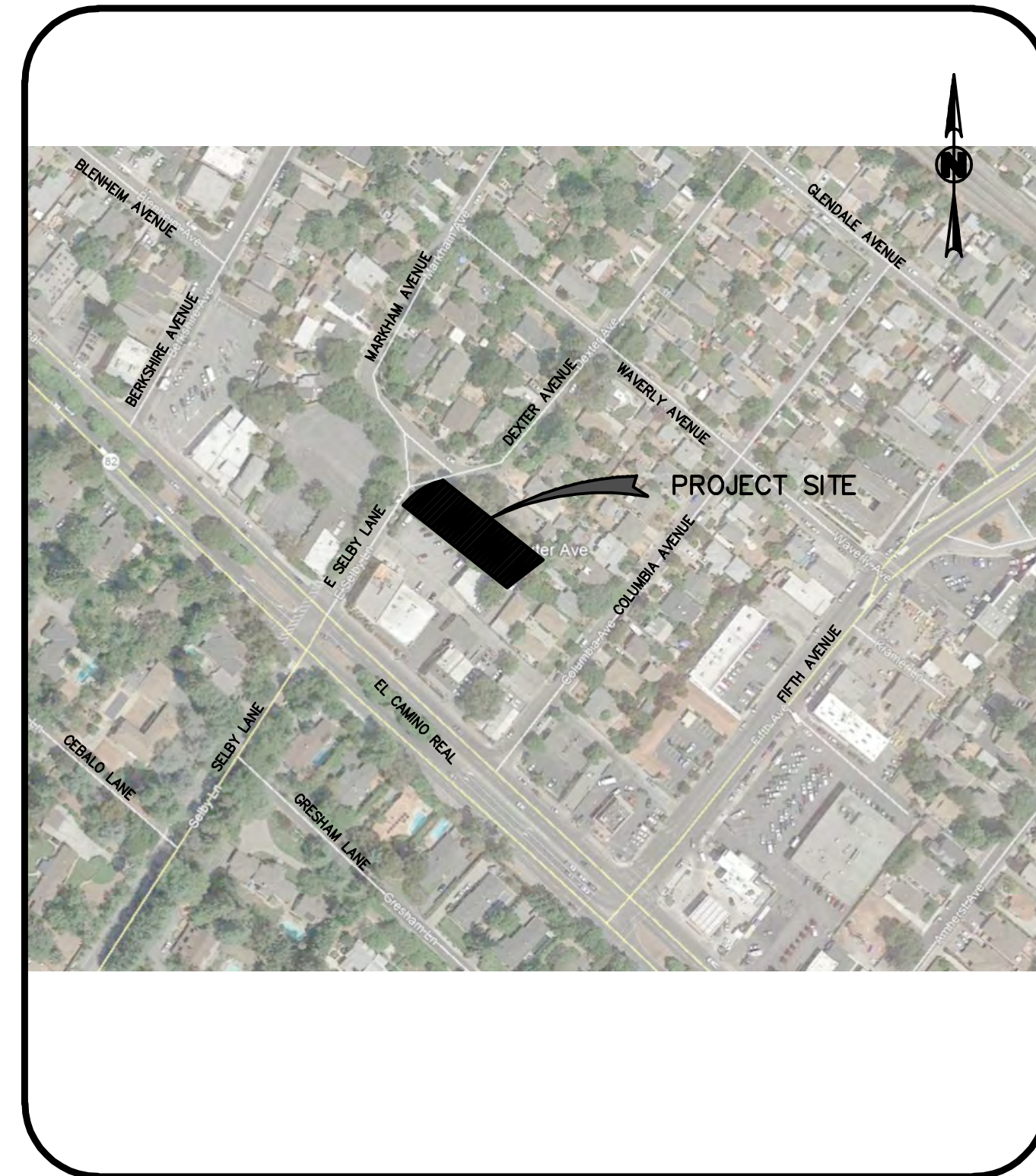
CABLE: COMCAST

FLOOD ZONE: SITE CURRENTLY FALLS WITHIN AREAS OF MINIMAL FLOOD HAZARD IN ZONE X BASED ON FIRM MAP NUMBER 06081C0302F, DATED APRIL 5, 2019.

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
AB	AGGREGATE BASE	NE	NORTHEAST
AC	ASPHALT CONCRETE	NO., #	NUMBER
AD	AREA DRAIN	NTS	NOT TO SCALE
APN	ASSESSORS PARCEL NUMBER	OC	ON CENTER
APPROX.	APPROXIMATE	OH	OVERHEAD
ARV	AIR RELEASE VALVE	PG&E	PACIFIC GAS AND ELECTRIC
AVL	AVENUE	P/L	PROPERTY LINE
BLDG	BUILDING	PP	POWER POLE
BLVD	BOULEVARD	PRC	POINT OF REVERSE CURVE
BM	BENCH MARK	PRV	PRESSURE REDUCING VALVE
BO	BLOWOFF	PT	POINT
BW	BACK OF WALK, BOTTOM OF WALL	PAE	PUBLIC ACCESS EASEMENT
CB	CATCH BASIN	PVC	POLYVINYL CHLORIDE
CC	CENTER TO CENTER or CENTER OF CURVE	RCP	REINFORCED CONCRETE PIPE
CF	CUBIC FEET	RD	ROAD
C&G	CURB & GUTTER	RT	RIGHT
CIP	CAST IRON PIPE	R/W	RIGHT OF WAY
CL	CENTERLINE	SD	STORM DRAIN
CMP	CORRUGATED METAL PIPE	SDCO	STORM DRAIN CLEAN OUT
CO	CLEANOUT	SDMH	STORM DRAIN MANHOLE
CONC	CONCRETE	SF	SQUARE FEET
CONST	CONSTRUCT	SHT	SHEET
CR	CURB RETURN/RAMP	SS	SANITARY SEWER
CT	COURT	SSCO	SANITARY SEWER CLEANOUT
CY	CUBIC YARD	SSE	SANITARY SEWER EASEMENT
DI	DUCTILE IRON	SSMH	SANITARY SEWER MANHOLE
DIA	DIAMETER	ST	STREET
DIAZ	DIAZ AVENUE	STD	STANDARD
DIP	DUCTILE IRON PIPE	S/W	SIDEWALK
DR	DRIVE	T	TELEPHONE
DWY	DRIVEWAY	TC	TOP OF CURB
(E)	EXISTING	TEMP	TEMPORARY
E	ELECTRICAL	TG	TOP OF GRATE
EA	EACH	TYP	TYPICAL
EL	ELEVATION	UG	UNDER GROUND
EP	EDGE OF PAVEMENT	VCP	VITRIFIED CLAY PIPE
ESMT	EASEMENT	W/	WITH
E.V.A.E.	EMERGENCY VEHICLE ACCESS EASEMENT	WM	WATER METER
EX	EXISTING	WV	WATER VALVE
F/C	FACE OF CURB	W	WATER
FDC	FIRE DEPARTMENT CONNECTION		
FF	FINISHED FLOOR ELEVATION		
FG	FINISHED GRADE		
FH	FIRE HYDRANT		
FI	FIELD INLET		
FL	FLOW LINE		
FS	FINISHED SURFACE		
FT	FEET		
G	GAS		
GALV	GALVANIZED		
GB	GRADE BREAK		
GND	GROUND		
GR	GRADE		
GV	GATE VALVE		
HORIZ	HORIZONTAL		
HP	HIGH POINT		
HV	HIGH VOLTAGE		
ID	INSIDE DIAMETER		
IEE	INGRESS/EGRESS EASEMENT		
IN	INCHES		
INV	INVERT		
JP	JOINT POLE		
JT	JOINT TRENCH		
L	LENGTH		
LAT	LATERAL		
LB	POUND(S)		
LF	LINEAR FEET		
LT	LEFT		
MAX	MAXIMUM		
MH	MANHOLE		
MID	MIDDLE		
MIN	MINIMUM		
MISC	MISCELLANEOUS		
MON	MONUMENT		
N	NORTH		



LOCATION MAP
N.T.S.



VICINITY MAP
N.T.S.

LEGEND

EXISTING	PROPOSED
PROPERTY LINE	PROPERTY LINE
SANITARY SEWER LINE	SANITARY SEWER LINE
ELECTRIC LINE	ELECTRIC LINE
GAS LINE	GAS LINE
STORM DRAIN LINE	STORM DRAIN LINE
TELEPHONE LINE	TELEPHONE LINE
WATER LINE	WATER LINE
OVERHEAD LINE	OVERHEAD LINE
CLEANOUT	CLEANOUT
MANHOLE	MANHOLE
FIRE HYDRANT	FIRE HYDRANT
WATER VALVE	WATER VALVE
WATER METER	WATER METER

BENCHMARK:

THE ELEVATIONS SHOWN ON THIS SURVEY ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) ELEVATIONS BASED UPON GPS OBSERVATIONS OF BKF POINT NO. 1 PERFORMED BY BKF ON MAY 20, 2019. THE GPS OBSERVATIONS ARE THE RESULTS OF AVERAGED REDUNDANT MEASUREMENTS OF BKF POINT NO. 1 TAKE WITH GNSS EQUIPMENT UTILIZING THE CALIFORNIA SURVEY AND DRAFTING SUPPLY REAL-TIME KINEMATIC REAL-TIME NETWORK (CSDS-RTN), WHICH BROADCASTS REAL-TIME ELEVATIONS ON THE NAVD88 VERTICAL DATUM. PRIOR TO THE ACCEPTANCE OF THIS ELEVATION BY BKF, A PUBLISHED NATIONAL GEODETIC SURVEY (NGS) BENCHMARK OFF-SITE WAS OBSERVED, CHECKED, AND AGED UPON TO STANDARD GNSS SURVEY TOLERANCES FOR A PROJECT OF THIS TYPE (0.05'±).

BKF POINT NO. 1 ELEVATION = 39.08'

BASIS OF BEARINGS:

THE BEARING OF NORTH 51°33'40" WEST OF WAVERLY AVENUE AS SHOWN UPON THAT CERTAIN RECORD SUBDIVISION MAP FILED IN VOLUME 13 OF RECORD SUBDIVISION MAPS AT PAGE 20 WAS TAKEN AS THE BASIS OF BEARINGS FOR THIS SURVEY.

RECORD REFERENCES:

(R1) RECORD SUBDIVISION MAP FILED JANUARY 20, 1926 IN BOOK 13 OF RSM MAPS AT PAGE 29, SAN MATEO COUNTY RECORDER.

UNAUTHORIZED CHANGES & USES:

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THESE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

SHEET INDEX

T-1	TITLE SHEET
T-2	EXISTING SITE CONDITIONS
T-3	SITE PLAN
T-4	FIRE ACCESS PLAN
T-5	SIGNING AND STRIPING PLAN
T-6	PROPOSED MAPPING INFORMATION
T-7	CONSTRUCTION DETAILS

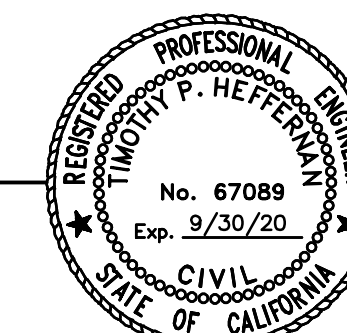
GENERAL NOTES

1. EROSION CONTROL PLAN WILL CONFORM TO APPLICABLE CITY, STATE AND FEDERAL STANDARDS.
2. THE OWNER INTENDS TO FILE A FINAL MAP FOR A FIVE LOT SUBDIVISION FOR TOWN HOMES PURPOSES.

ENGINEER'S STATEMENT

THESE TENTATIVE MAPS HAVE BEEN PREPARED BY ME OR UNDER MY DIRECTION IN ACCORDANCE WITH STANDARD ENGINEERING PRACTICE.

Tim Heffernan
TIMOTHY HEFFERNAN
PROJECT MANAGER
BKF ENGINEERS
P.E. #67089
6/1/2020
DATE



255 SHORELINE DR
SUITE 200
REDWOOD CITY, CA 94065
650-482-6300
650-482-6399 (FAX)

BKF
ENGINEERS / SURVEYORS / PLANNERS

20 DEXTER AVENUE
TENTATIVE MAP
TITLE SHEET

CALIFORNIA
SAN MATEO COUNTY
REDWOOD CITY

Revisions	No.	Date	By	Check

Drawing Number: **T-1**



255 SHORELINE DR
SUITE 200
REDWOOD CITY, CA 94065
650-482-6300
650-482-6399 (FAX)



CALIFORNIA

20 DEXTER AVENUE TENTATIVE MAP EXISTING SITE CONDITIONS

SAN MATEO COUNTY

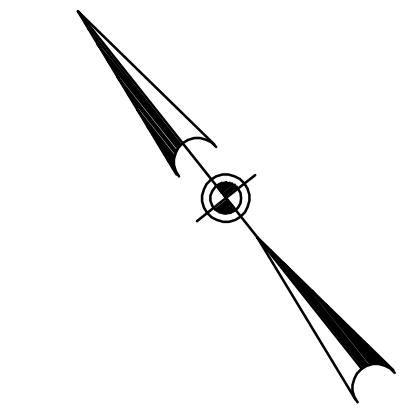
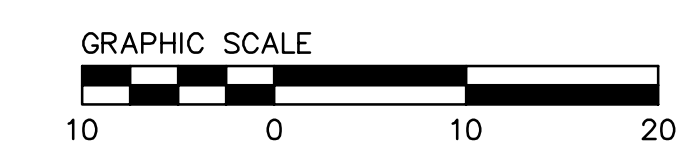
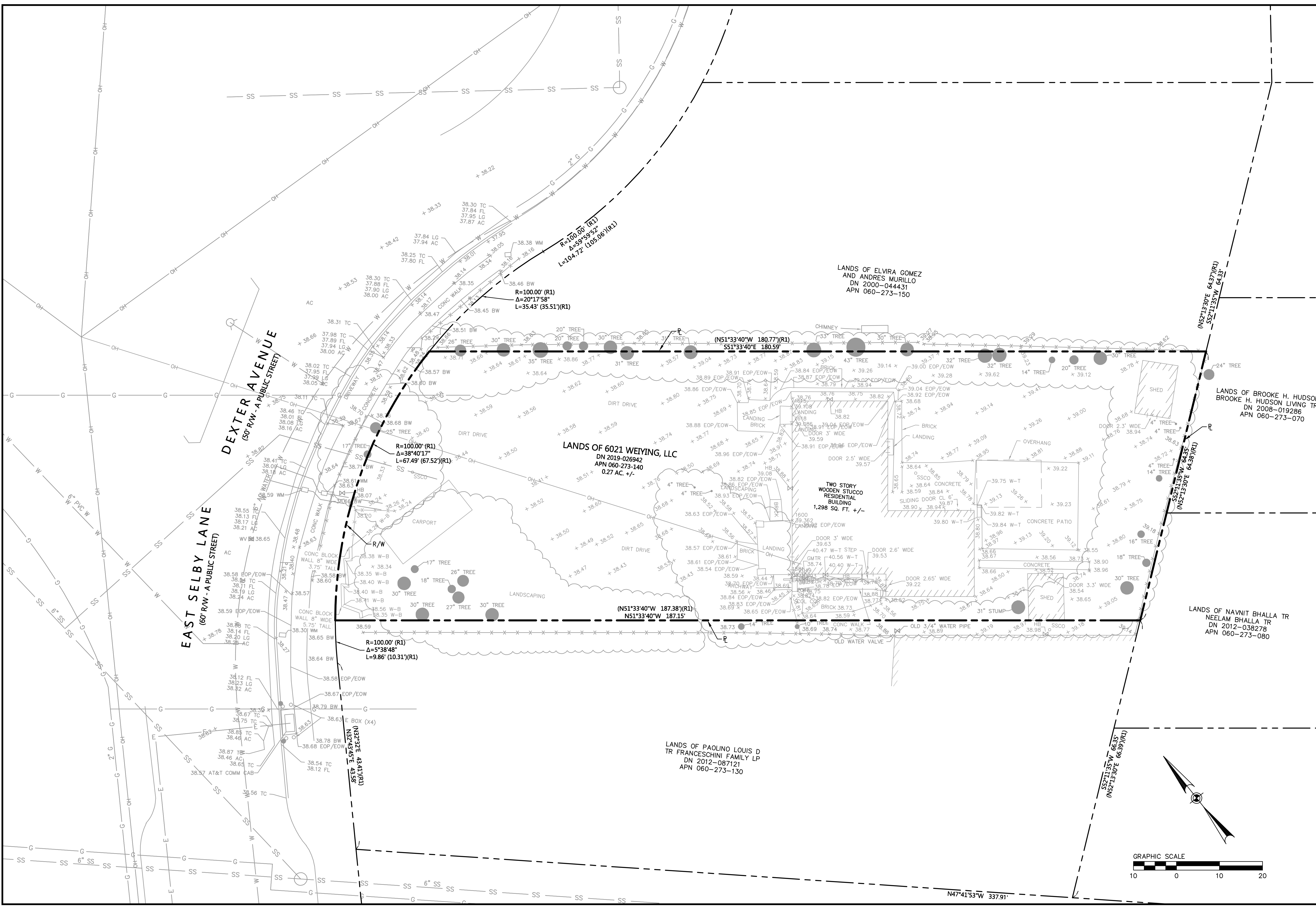


DATE SIGNED 06/01/20

Revisions	No.	Date	By	Check

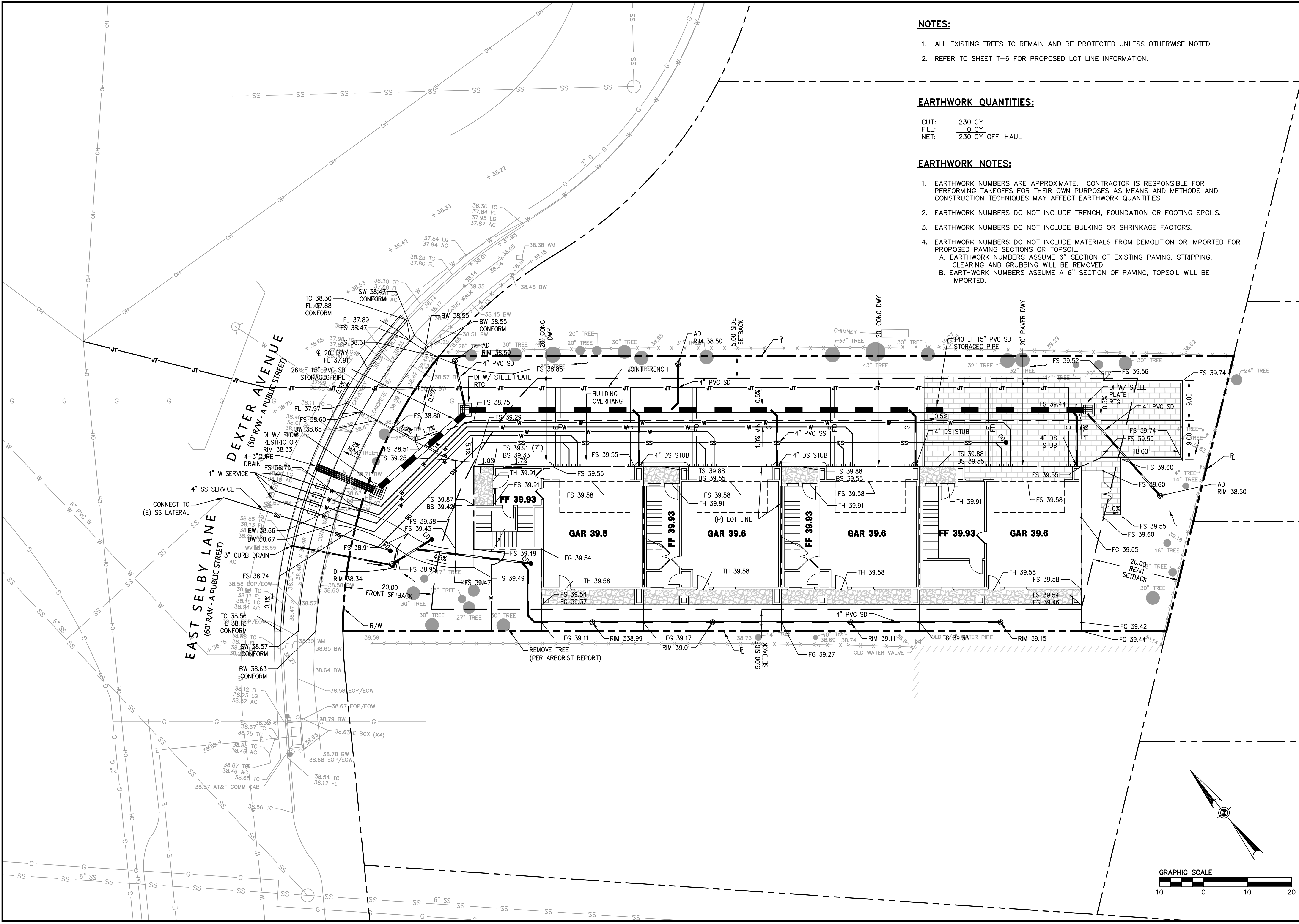
Drawing Number:
T-2

DRAWING NAME: K:\2019\190603_20_Dexter_Ave_RWC\PLANNING\SHEETS\Tentative Map\T-2.dwg (Layout)
PLOT TIME: 6-10-2020 10:49 AM
PLOTTER: HP DesignJet 5000



N47°41'53\"/>

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PLOT TIME: 5-10-2020 11:03 AM
PLOTTER: B7: P600



NOTES:

1. ALL EXISTING TREES TO REMAIN AND BE PROTECTED UNLESS OTHERWISE NOTED.
2. REFER TO SHEET T-6 FOR PROPOSED LOT LINE INFORMATION.

EARTHWORK QUANTITIES:

CUT: 230 CY
 FILL: 0 CY
 NET: 230 CY OFF-HAUL

EARTHWORK NOTES:

1. EARTHWORK NUMBERS ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR PERFORMING TAKEOFFS FOR THEIR OWN PURPOSES AS MEANS AND METHODS AND CONSTRUCTION TECHNIQUES MAY AFFECT EARTHWORK QUANTITIES.
2. EARTHWORK NUMBERS DO NOT INCLUDE TRENCH, FOUNDATION OR FOOTING SPOILS.
3. EARTHWORK NUMBERS DO NOT INCLUDE BULKING OR SHRINKAGE FACTORS.
4. EARTHWORK NUMBERS DO NOT INCLUDE MATERIALS FROM DEMOLITION OR IMPORTED FOR PROPOSED PAVING SECTIONS OR TOPSOIL.
 - A. EARTHWORK NUMBERS ASSUME 6" SECTION OF EXISTING PAVING, STRIPPING, CLEARING AND GRUBBING WILL BE REMOVED.
 - B. EARTHWORK NUMBERS ASSUME A 6" SECTION OF PAVING, TOPSOIL WILL BE IMPORTED.

255 SHORELINE DR
 SUITE 200
 REDWOOD CITY, CA 94065
 650-482-6300
 650-482-6399 (FAX)



CALIFORNIA

**20 DEXTER AVENUE
 TENTATIVE MAP
 SITE PLAN**

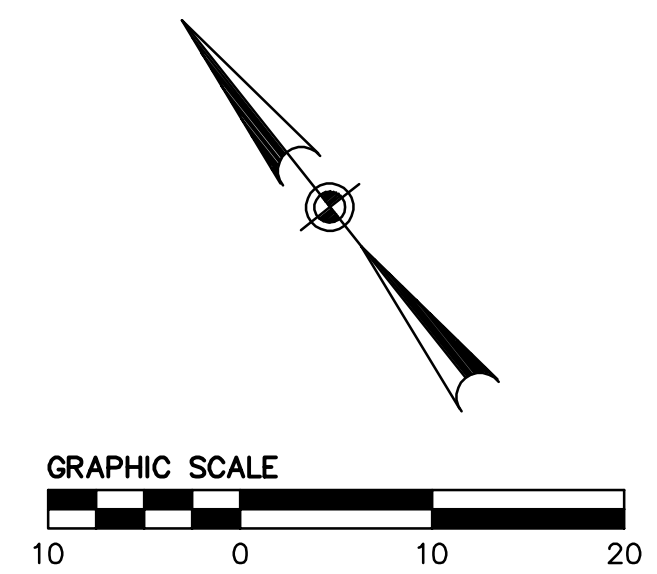
REDWOOD CITY
 SAN MATEO COUNTY



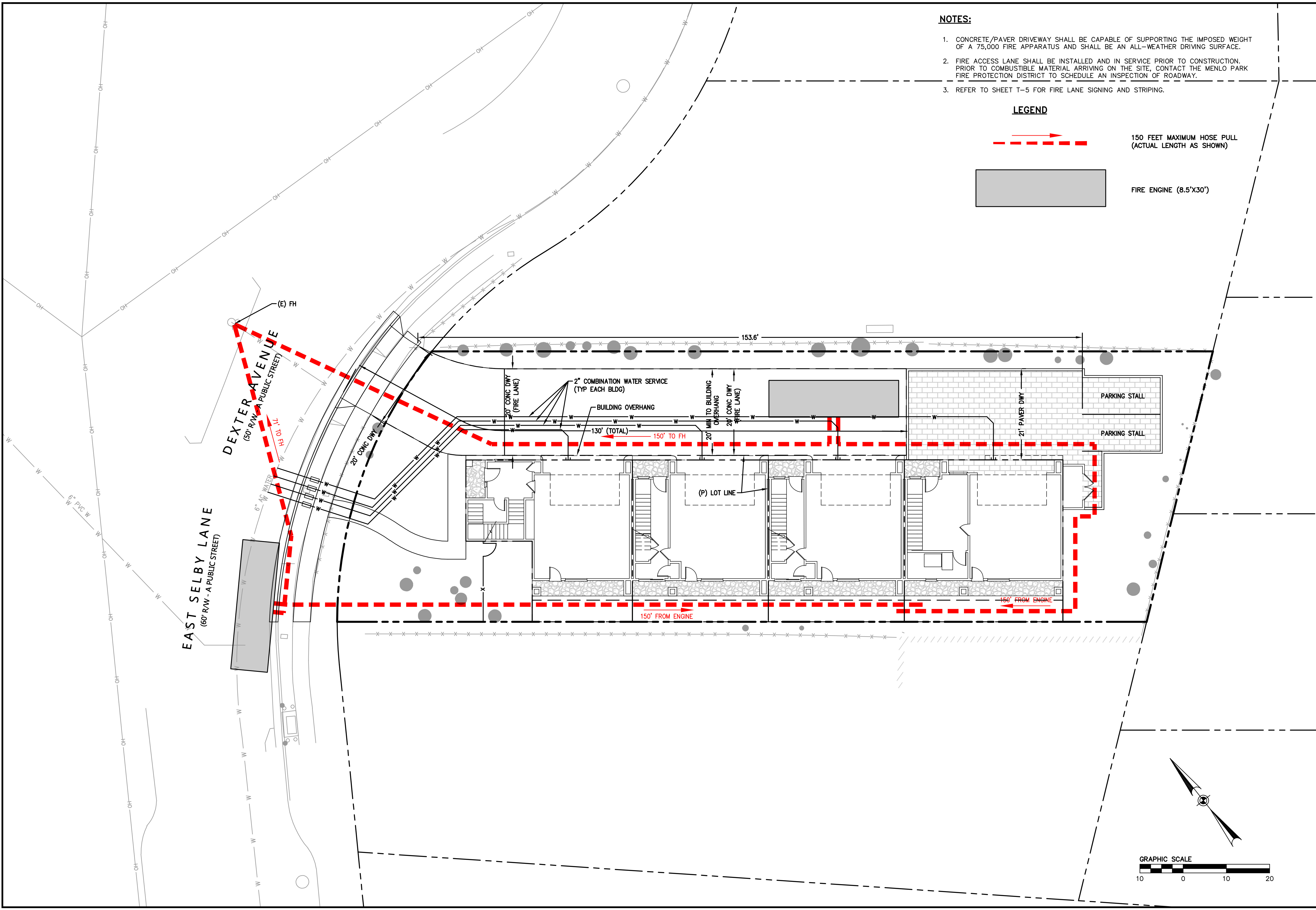
DATE SIGNED 06/01/20

Revisions	No.	Date	By	Appr.

Drawing Number:
T-3



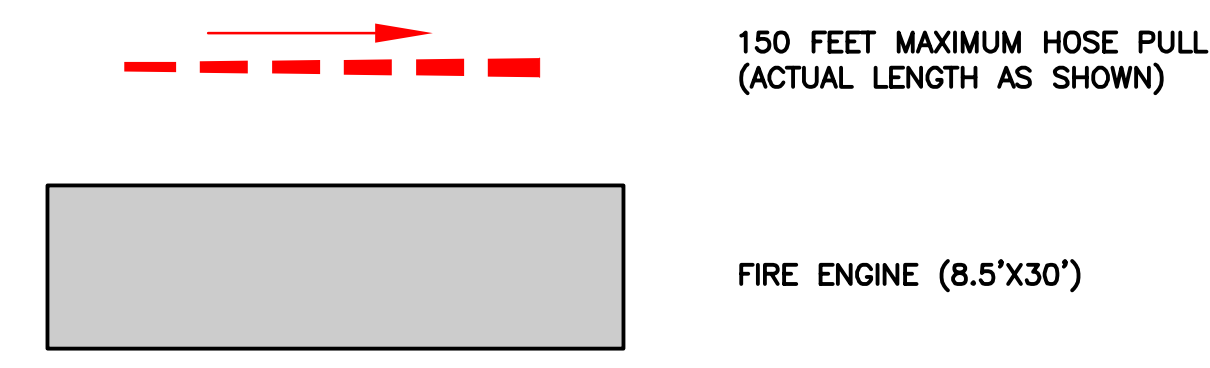
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 PLOT TIME: 5-10-2020 10:49 AM



NOTES:

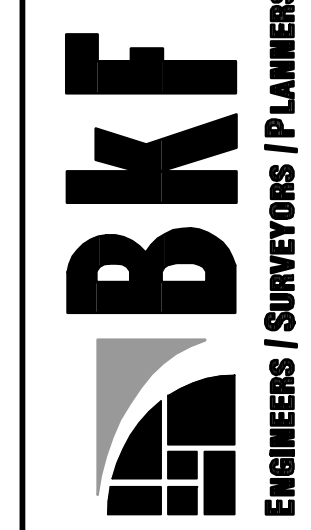
1. CONCRETE/PAVER DRIVEWAY SHALL BE CAPABLE OF SUPPORTING THE IMPOSED WEIGHT OF A 75,000 FIRE APPARATUS AND SHALL BE AN ALL-WEATHER DRIVING SURFACE.
2. FIRE ACCESS LANE SHALL BE INSTALLED AND IN SERVICE PRIOR TO CONSTRUCTION. PRIOR TO COMBUSTIBLE MATERIAL ARRIVING ON THE SITE, CONTACT THE MENLO PARK FIRE PROTECTION DISTRICT TO SCHEDULE AN INSPECTION OF ROADWAY.
3. REFER TO SHEET T-5 FOR FIRE LANE SIGNING AND STRIPING.

LEGEND



**20 DEXTER AVENUE
 TENTATIVE MAP
 FIRE ACCESS PLAN**

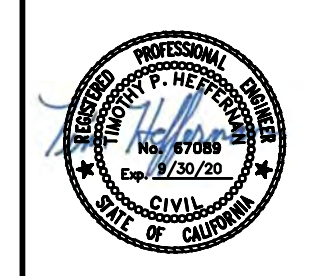
255 SHORELINE DR
 SUITE 200
 REDWOOD CITY, CA 94065
 650-482-6300
 650-482-6399 (FAX)



CALIFORNIA

SAN MATEO COUNTY

REDWOOD CITY

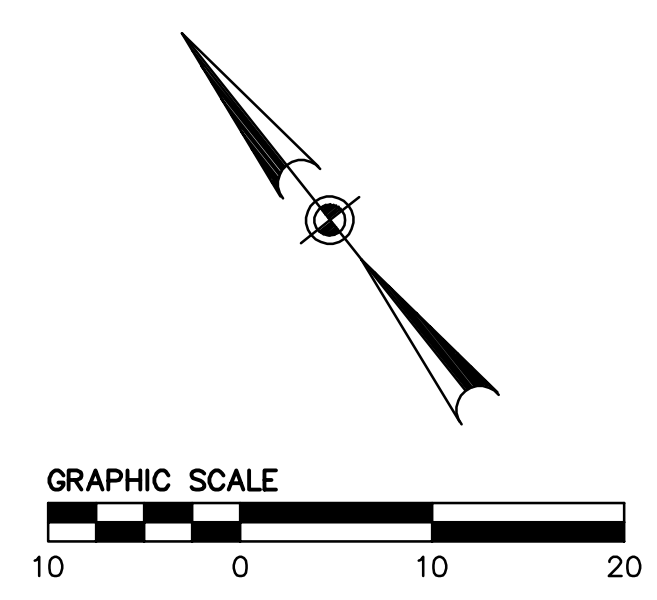


DATE SIGNED 06/01/20

Revisions	No.	Date	By

Drawing Number:

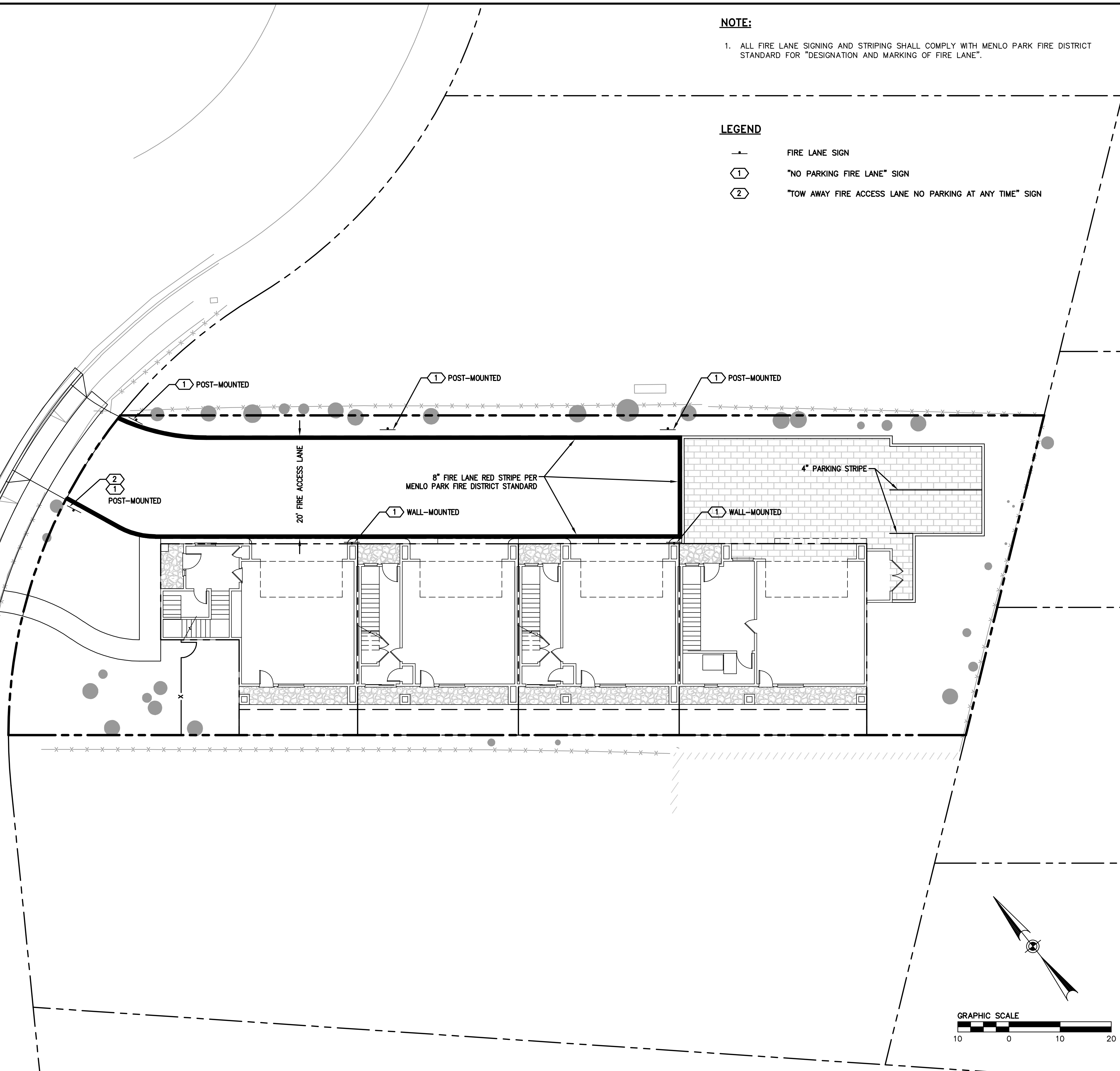
T-4



DRAWING NAME: K:\2019\190603_20_Dexter_Ave_RWC\ENR\PLANNING\SHEETS\Tentative Map\T-5.dwg (Layout)
 PLOT TIME: 6-10-2020 10:30 AM
 PLOTTED BY: poon

EAST SELBY LANE
 (60' R/W - A PUBLIC STREET)

DEXTER AVENUE
 (60' R/W - A PUBLIC STREET)

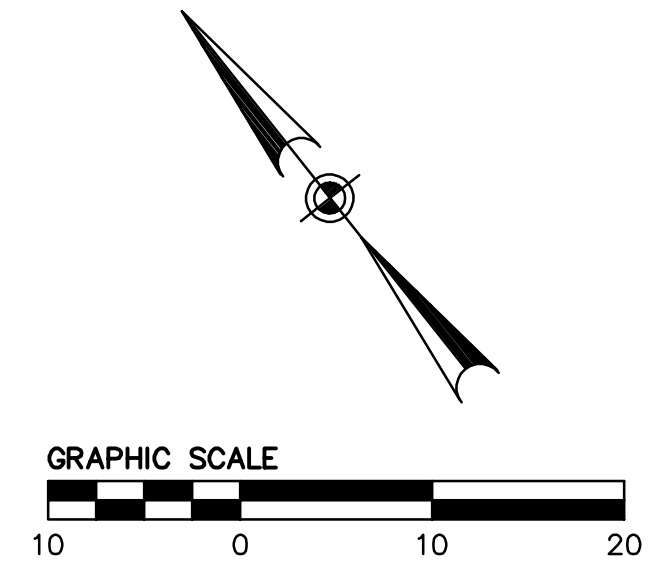


NOTE:

1. ALL FIRE LANE SIGNING AND STRIPING SHALL COMPLY WITH MENLO PARK FIRE DISTRICT STANDARD FOR "DESIGNATION AND MARKING OF FIRE LANE".

LEGEND

- FIRE LANE SIGN
- ① "NO PARKING FIRE LANE" SIGN
- ② "TOW AWAY FIRE ACCESS LANE NO PARKING AT ANY TIME" SIGN



DATE SIGNED 06/01/20

Revisions	No.	Date	Description

Drawing Number:
T-5

20 DEXTER AVENUE
TENTATIVE MAP
SIGNING AND STRIPING PLAN

REDWOOD CITY
 SAN MATEO COUNTY

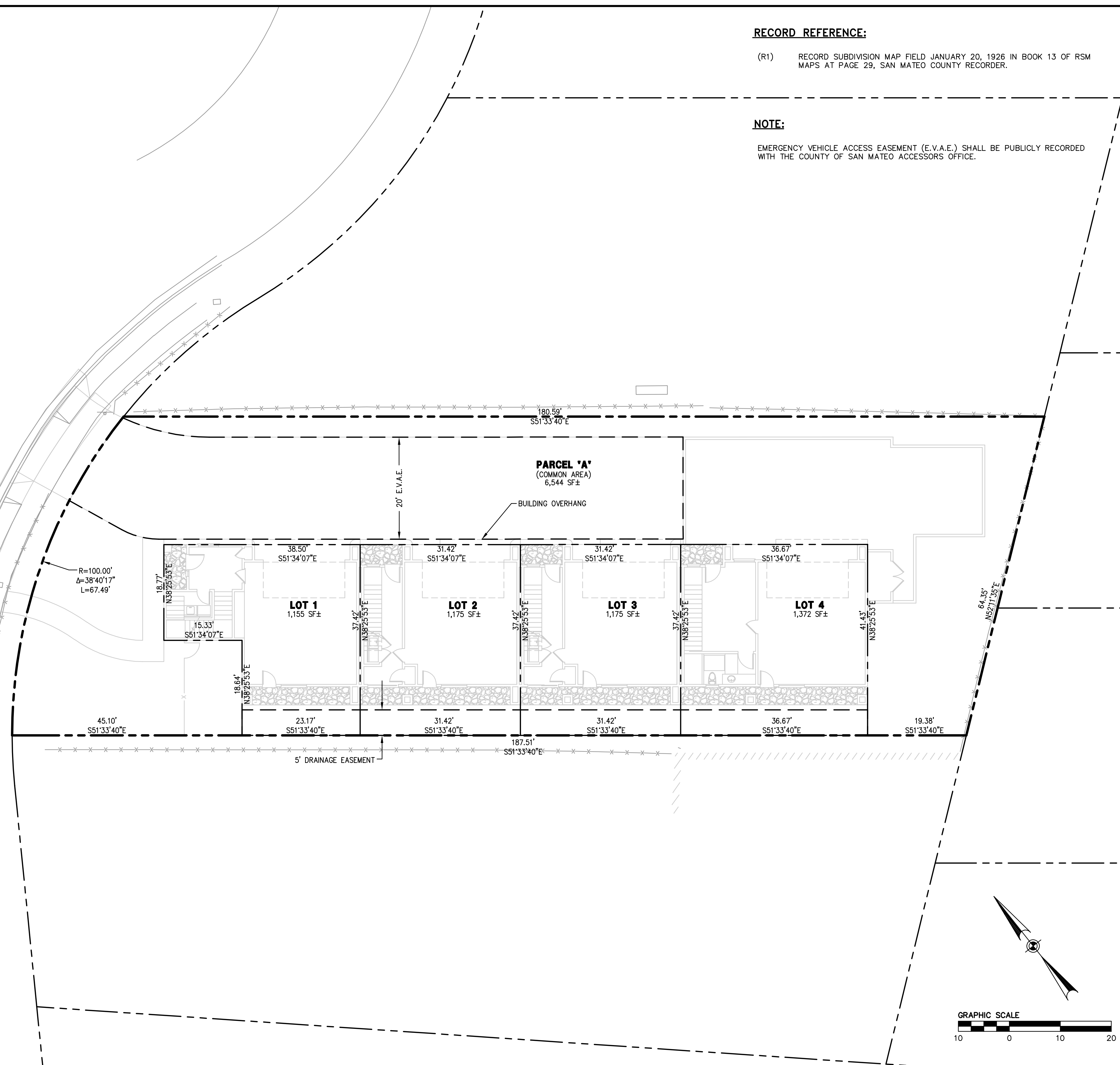
CALIFORNIA

BKF
 ENGINEERS / SURVEYORS / PLANNERS
 255 SHORELINE DR
 SUITE 200
 REDWOOD CITY, CA 94065
 650-482-6300
 650-482-6399 (FAX)

DRAWING NAME: K:\2019\190603_20_Dexter_Ave_RWC\ENR\PLANNING\SHEETS\Tentative Map\T-6.dwg (Layout)
 PLOT TIME: 6-10-2020 10:30 AM

EAST SELBY LANE
 (60' R/W - A PUBLIC STREET)

DEXTER AVENUE
 (60' R/W - A PUBLIC STREET)

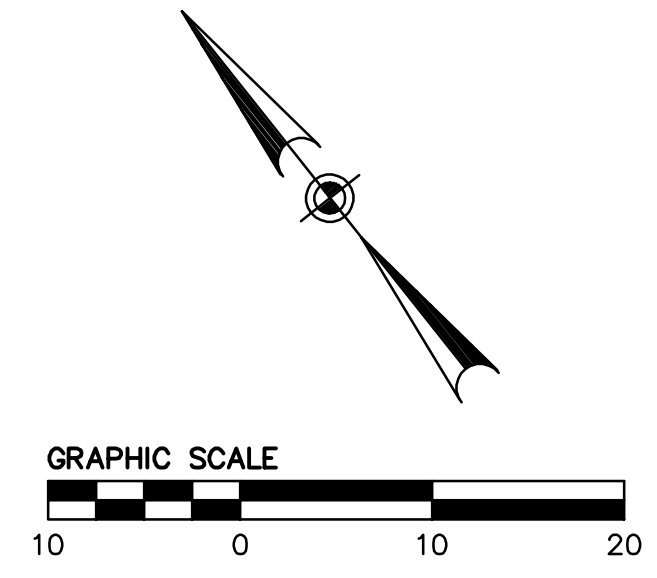


RECORD REFERENCE:

(R1) RECORD SUBDIVISION MAP FIELD JANUARY 20, 1926 IN BOOK 13 OF RSM MAPS AT PAGE 29, SAN MATEO COUNTY RECORDER.

NOTE:

EMERGENCY VEHICLE ACCESS EASEMENT (E.V.A.E.) SHALL BE PUBLICLY RECORDED WITH THE COUNTY OF SAN MATEO ACCESSORS OFFICE.



255 SHORELINE DR
 SUITE 200
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 650-482-6300
 650-482-6399 (FAX)



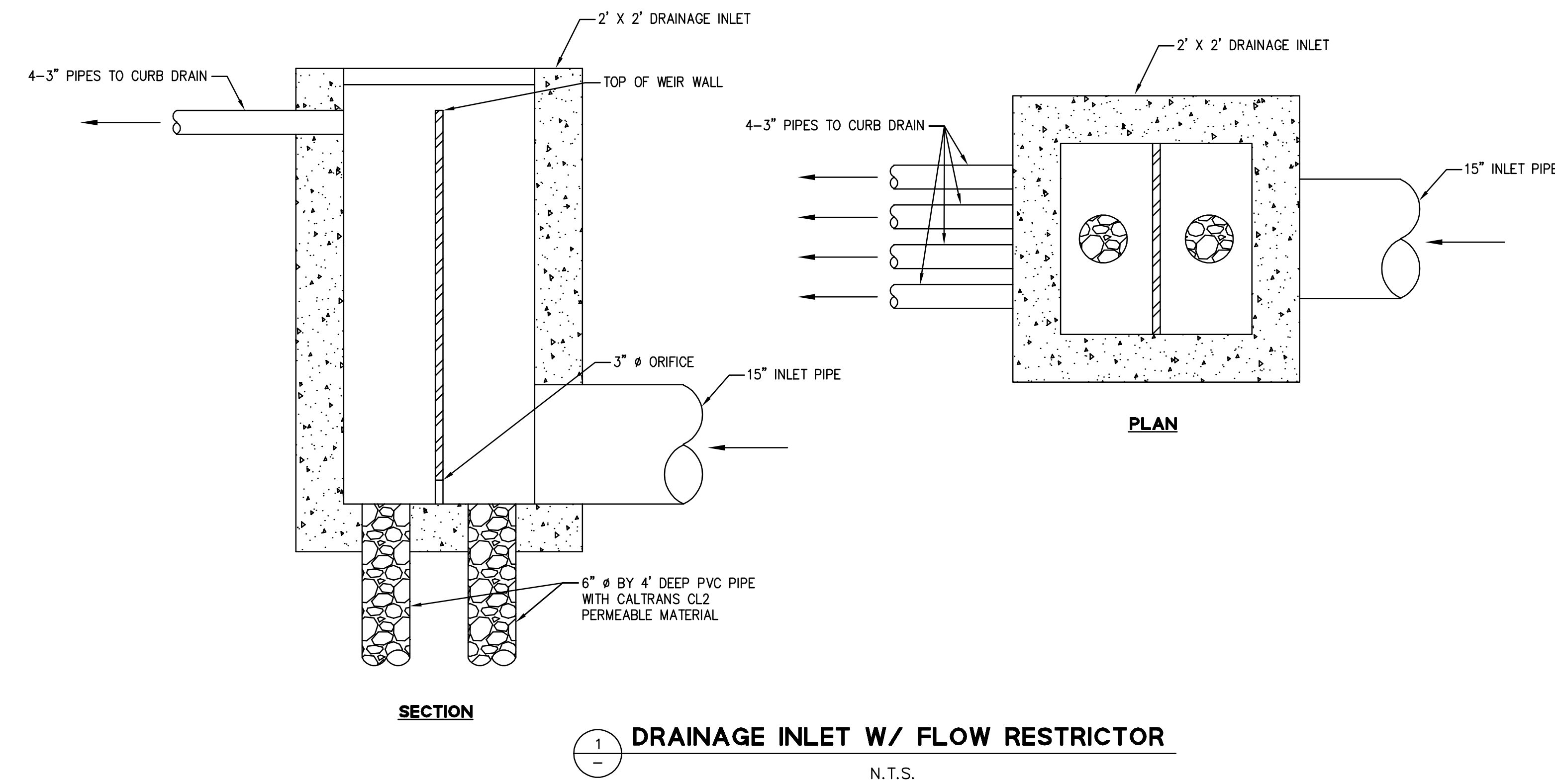
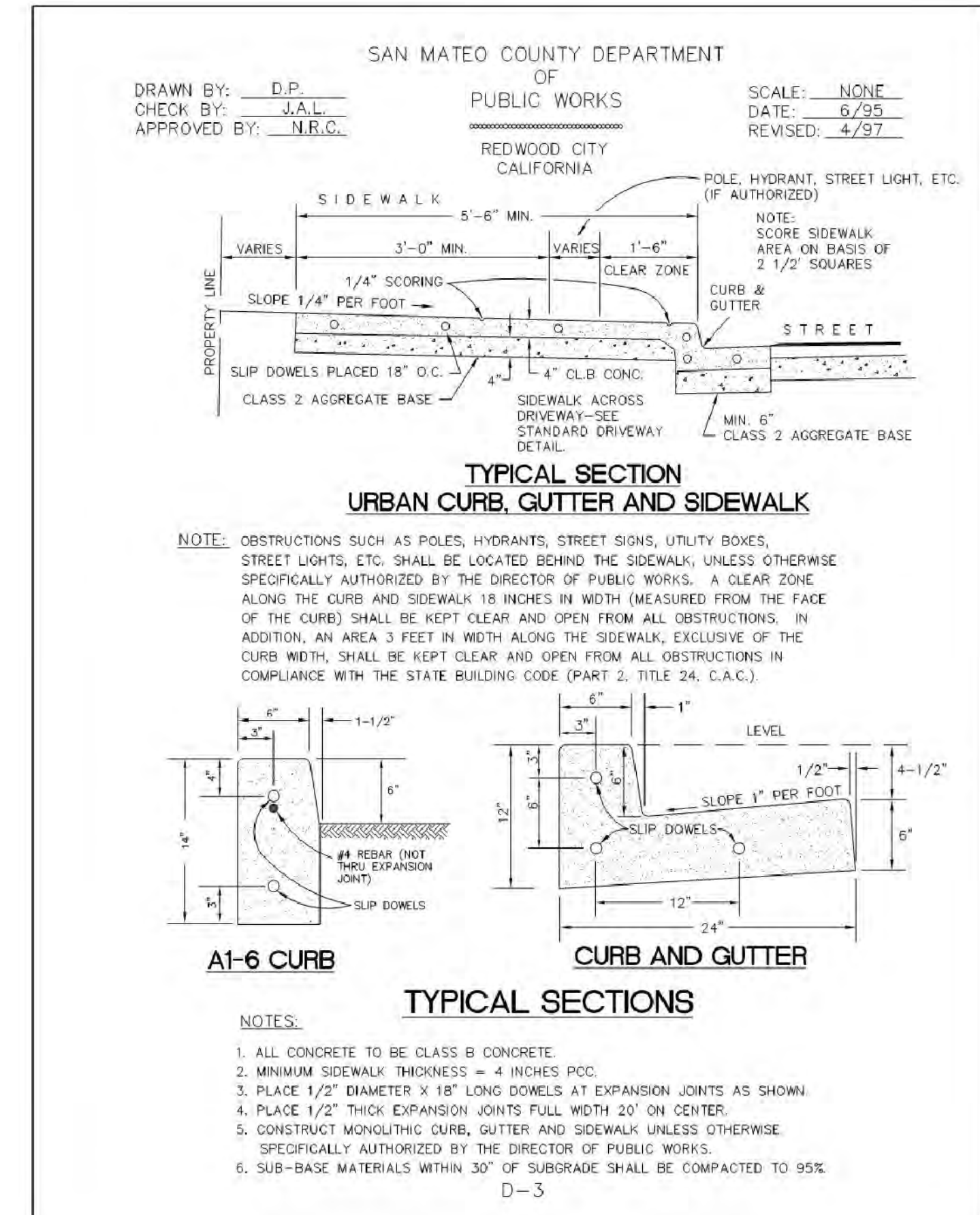
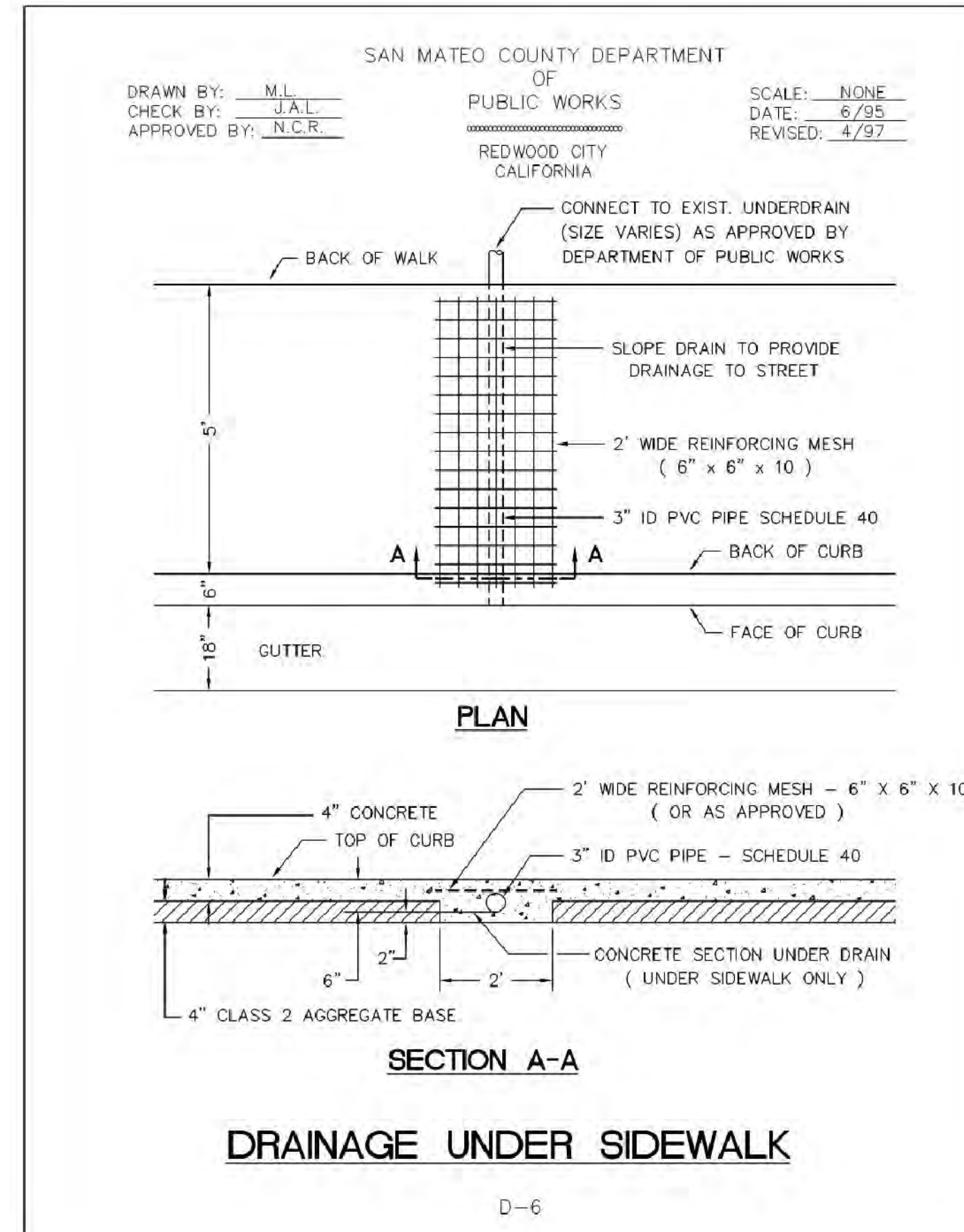
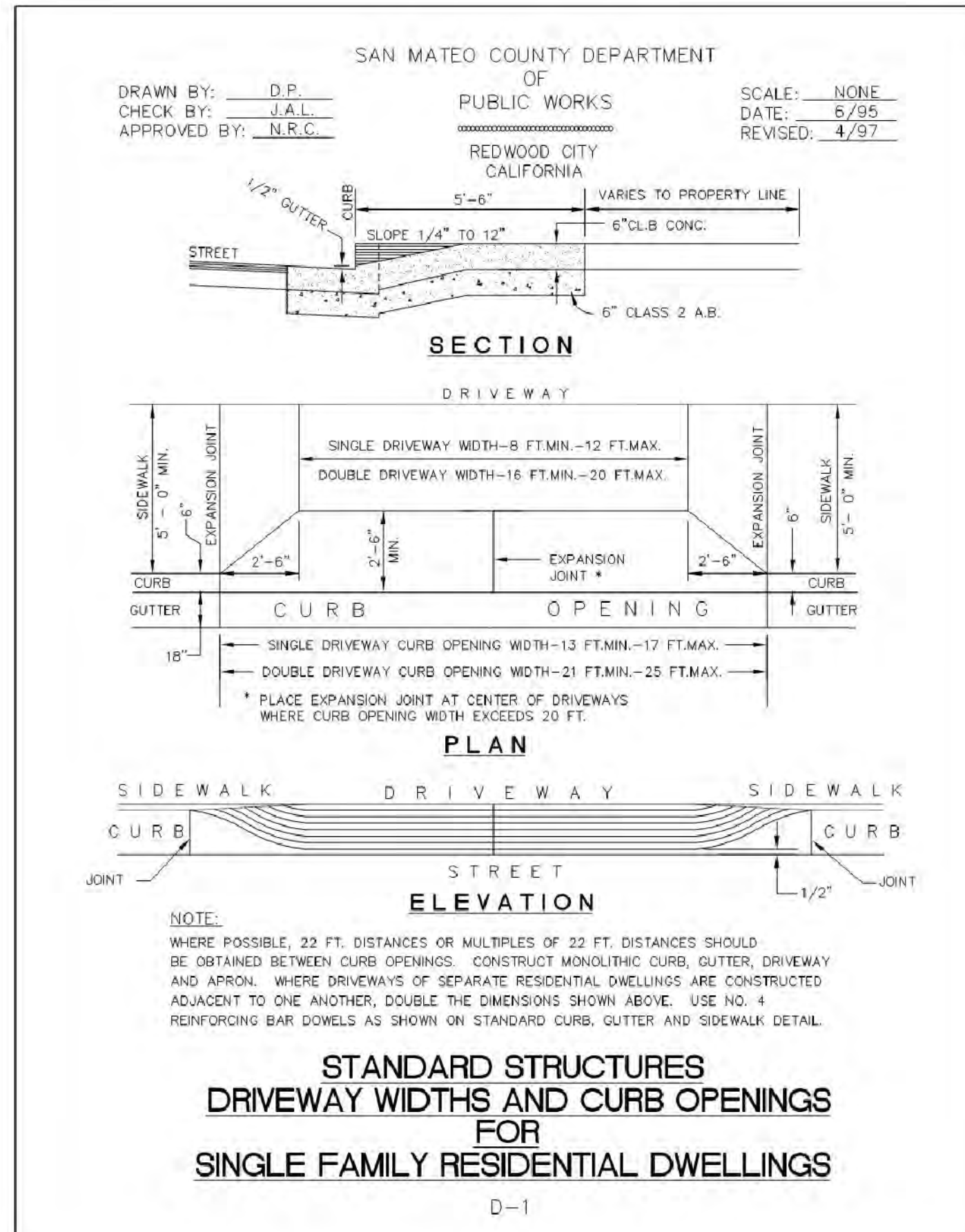
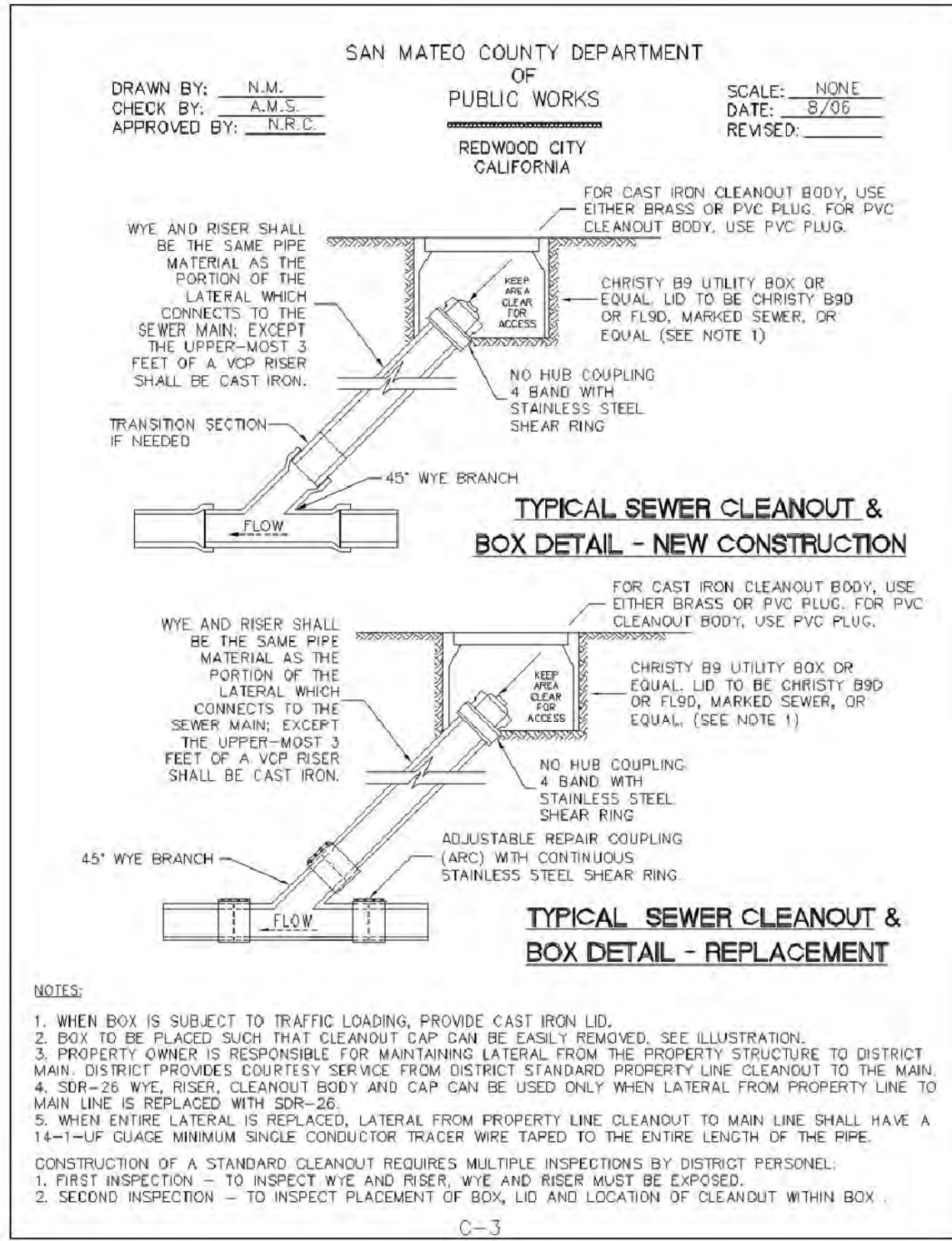
20 DEXTER AVENUE
 TENTATIVE MAP
 PROPOSED MAPPING INFORMATION
 REDWOOD CITY
 SAN MATEO COUNTY
 CALIFORNIA



DATE SIGNED 06/01/20

Revisions	No.	Date	By	Check

Drawing Number:
T-6



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CALIFORNIA

20 DEXTER AVENUE
TENTATIVE MAP
CONSTRUCTION DETAILS
SAN MATEO COUNTY

REDWOOD CITY



DATE SIGNED 06/01/20

Revisions	No.	Date	Scale	Design	Drawn	Approved	Job No.
		6/1/20	N.T.S.	MP	MP	TH	20190603

Drawing Number: T-7

PROJECT TEAM

OWNER:
6021 WEIYING LLC
20 DEXTER AVENUE
REDWOOD CITY, CA 94063
(510) 996-2941
CONTACT: YING WANG

ARCHITECT: (PLAN PREPARER)
DL ARCHITECTURE & PLANNING
616 RAMONA ST. STE. 21
PALO ALTO, CA 94301
(650) 321-2808
CONTACT: ERIC KENG

STRUCTURAL ENGINEER:
TO BE DETERMINED

TITLE 24:
TO BE DETERMINED

LANDSCAPE ARCHITECT
GREGORY LEWIS LANDSCAPE ARCHITECT
736 PARK WAY,
SANTA CRUZ, CA 95065
(831) 359-0960

LAND SURVEYOR/CIVIL ENGINEER:
BKF ENGINEERS/SURVEYORS/ PLANNERS
255 SHORELINE DR.
REDWOOD CITY, CA 94065
(650) 482-6300
CONTACT: TIMOTHY HEFFERNAN

SCOPE OF WORKS

DEMOLISH EXISTING 1 STORY RESIDENCE AND DETACHED GARAGE, BASE ON R3/S5 ZONING PERMITTED USE OF MULTIPLE-FAMILY DWELLINGS AND S-5 WITH LOT WITH WIDER THAN 50FT. AND LOT SIZE LARGER THAN 5,000 SQ.FT. TO BUILD A NEW 4 DWELLING-UNIT BUILDING (LOT SIZE/2,500 SQ.FT. = ALLOWABLE UNIT: 11,744 /2,500 = 4.69) WITH 2 COVERED PARKING SPACES FOR EACH UNIT THROUGH AIR SPACE SUBDIVISION. THE NEW DEVELOPMENT WILL ALSO PROVIDE COMMON OPEN SPACE AND 2 PUBLIC PARKING SPACES FOR COMMUNITY ACTIVITIES.

SHEET INDEX

ARCHITECTURAL:

T-1	TENTATIVE MAP TITLE SHEET
T-2	EXISTING SITE CONDITION
T-3	SITE PLAN
T-4	FIRE ACCESS PLAN
T-5	SIGNING AND STRIPING PLAN
T-6	PROPOSED MAPPING INFORMATION
T-7	CONSTRUCTION DETAILS
SK-1	ARCHITECTURAL SITE PLAN, VICINITY MAP, PROJECT DATA
SK-2	FLOOR PLANS
SK-3	BUILDING ELEVATIONS
L0	LANDSCAPE DOCUMENTATION
L1	LANDSCAPE PLAN
L2	IRRIGATION PLAN
L3	LANDSCAPE DETAILS
L4	LANDSCAPE SPECIFICATIONS

PROJECT DATA

A. APN:	060-273-140
B. ZONING:	R-3/S-5
C. OCCUPANCY:	R-2
D. SITE AREA:	11,744 SQ.FT. (0.27 AC)
E. SITE DENSITY:	2,500/DU = 4 DU/LOT
F. TOTAL STORIES:	3
G. PARKING SPACES:	8 COVERED, (2 GUEST PARKING)
H. FIRE SPRINKLER:	YES
J. SETBACK:	SEE SITE PLAN
K. PRIVATE YARD:	300-600 SQ.FT./DU
L. PUBLIC OPEN SPACE:	1,000 SQ.FT.
M. BUILDING PAD:	AVERAGE 1,000 SQ.FT.
N. DRIVEWAY:	20 FT (24.0 FT IN FRONT OF GARAGE)
O. FLOOR AREA:	

	1st FLOOR	2nd FLOOR	3rd FLOOR	TOTAL	GARAGE
UNIT "A"	245 SQ.FT.	956 SQ.FT.	946 SQ.FT.	2,147 SQ.FT.	587 SQ.FT.
UNIT "B"	225 SQ.FT.	1,003 SQ.FT.	984 SQ.FT.	2,212 SQ.FT.	556 SQ.FT.
UNIT "C"	225 SQ.FT.	1,003 SQ.FT.	984 SQ.FT.	2,212 SQ.FT.	556 SQ.FT.
UNIT "D"	333 SQ.FT.	1,222 SQ.FT.	1,107 SQ.FT.	2,662 SQ.FT.	570 SQ.FT.

FAR: = 11,502 / 11,744 = 0.98
 LOT COVERAGE: = 4,112 / 11,744 = 35.0%
 TOTAL LIVING SPACE: 9,233 SQ.FT.

VICINITY MAP

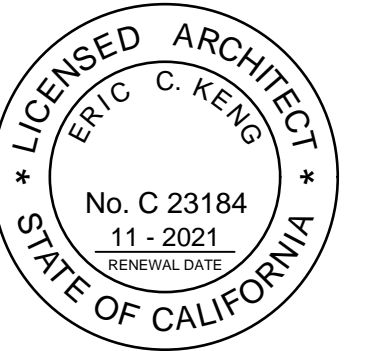


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PALO ALTO, CA 94301
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Seals:



Client:

DEXTER VILLA

**20 DEXTER AVENUE
REDWOOD CITY, CA**

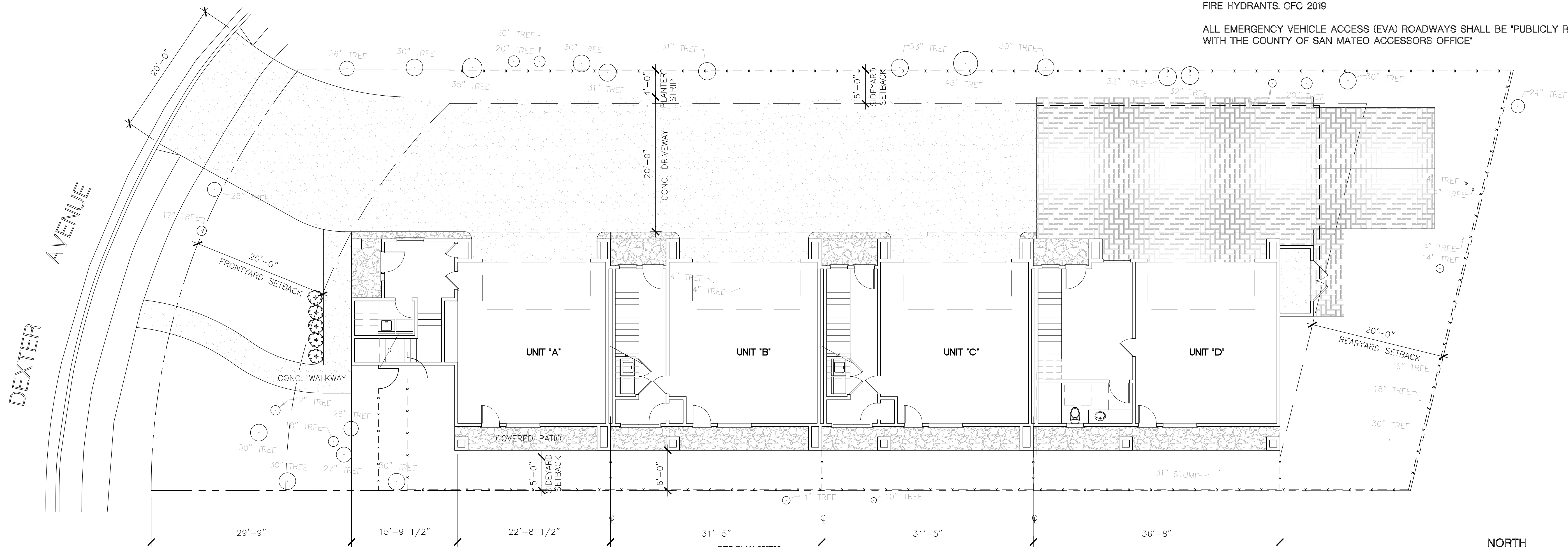
FIRE DEPARTMENT NOTES:

ALL CURBING LOCATED WITHIN THE COMPLEX THAT HAS NOT BEEN ASSIGNED AS ONSITE PARKING SHALL BE DESIGNATED AS 'NO PARKING FIRE LANE'. ALL FIRE LANES TO COMPLY WITH MPFD STANDARD FOR 'DESIGNATION AND MARKING OF FIRE LANE' PROVIDE A COMPLETE NO PARKING-FIRE LANE STRIPPING PLAN WITH NO PARKING SIGNAGE IN ACCORDANCE TO MPFD STANDARD ON SUBSEQUENT SUBMITTAL

FIRE APPARATUS ROADWAYS, INCLUDING PUBLIC OR PRIVATE STREETS OR ROADS USED FOR VEHICLE ACCESS SHALL BE INSTALLED AND IN SERVICE PRIOR TO CONSTRUCTION. FIRE PROTECTION WATER SERVING ALL HYDRANTS SHALL BE PROVIDED AS SOON AS COMBUSTIBLE MATERIAL ARRIVES ON THE SITE:

PRIOR TO COMBUSTIBLE MATERIAL ARRIVING ON THE SITE, CONTACT THE MENLO PARK FIRE PROTECTION DISTRICT TO SCHEDULE AN INSPECTION OF ROADWAYS AND FIRE HYDRANTS. CFC 2019

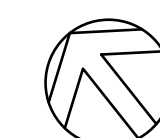
ALL EMERGENCY VEHICLE ACCESS (EVA) ROADWAYS SHALL BE 'PUBLICLY RECORDED WITH THE COUNTY OF SAN MATEO ACCESSORS OFFICE'



SITE PLAN 050720
SCALE: 1/8" = 1'-0"

SEE CIVIL DRAWINGS FOR GRADING AND DRAINAGE DESIGN

NORTH



NO.	SUBMISSION/REVISION	DATE
△	SUBDIVISION	2-28-20
△	PLN. REV.	6-1-20
△		
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Drawing Title:
**PROJECT DATA,
SITE PLAN**

Drawing Status:
SITE DEVELOPMENT

Drawn By: --- Checked By: --- Date: ---

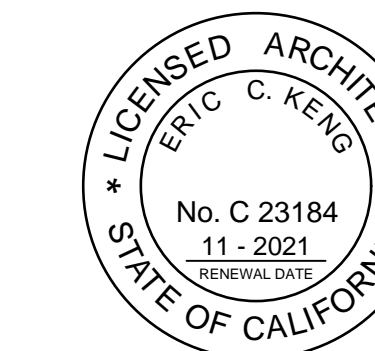
Project Number: ---

Scale: 1/8" = 1'-0"

Drawing Number: ---

SK-1

Seals:



Client:

DEXTER VILLA

20 DEXTER AVENUE
REDWOOD CITY, CA

NO. SUBMISSION/REVISION DATE

△ SUBDIVISION 2-28-20
△ PLN. REV. 6-1-20

Drawing Title:

**FLOOR PLANS &
ROOF PLAN**

Drawing Status:

SITE DEVELOPMENT

Drawn By Checked By Date

Project Number:

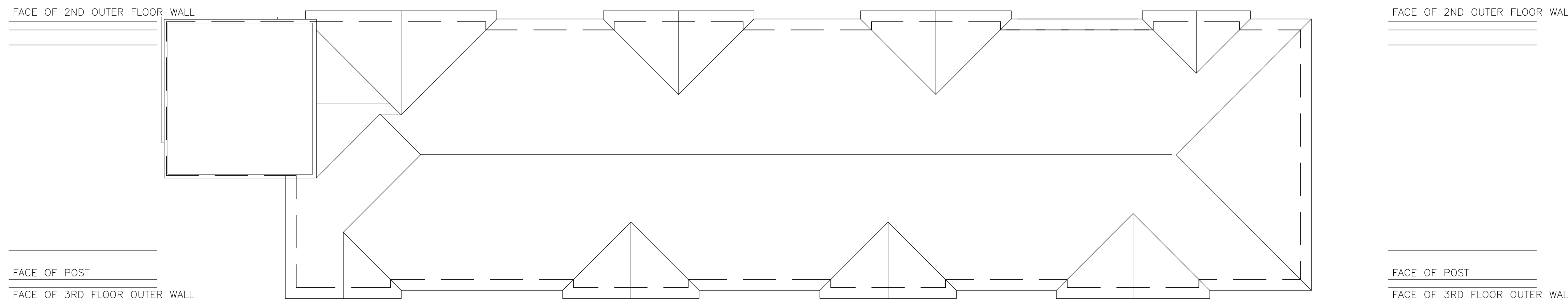
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Drawing Number:

SK-2

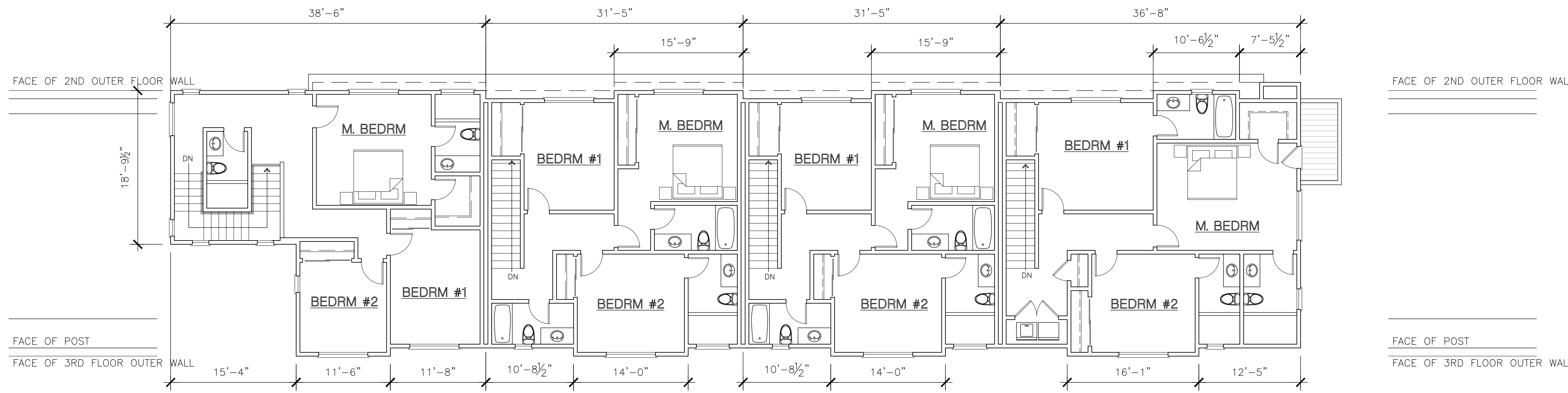
ROOF PLAN

SCALE: 1/8" = 1'-0"



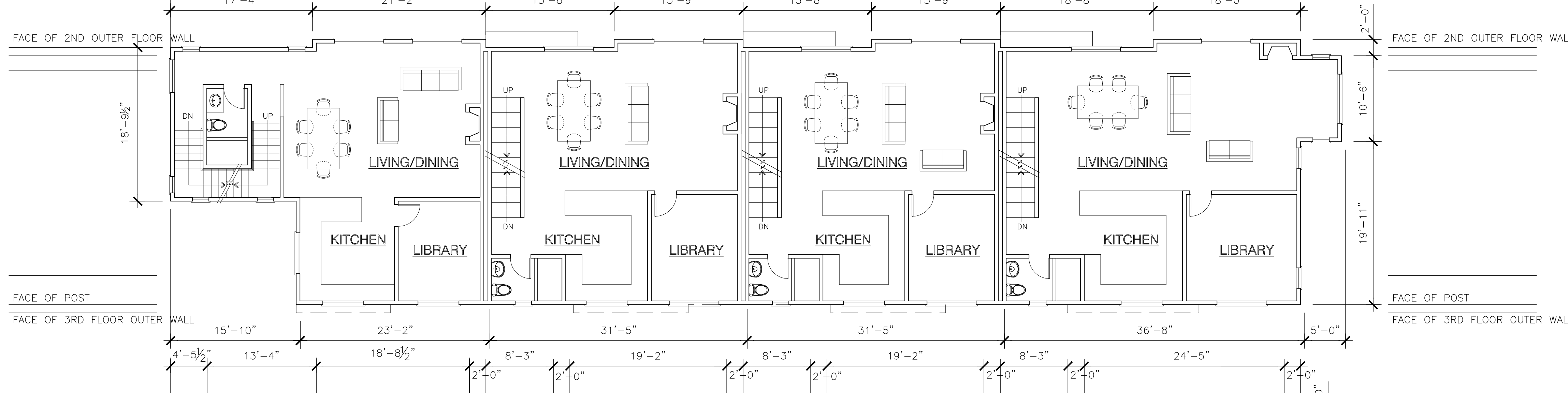
3rd FLOOR PLAN

SCALE: 1/8" = 1'-0"



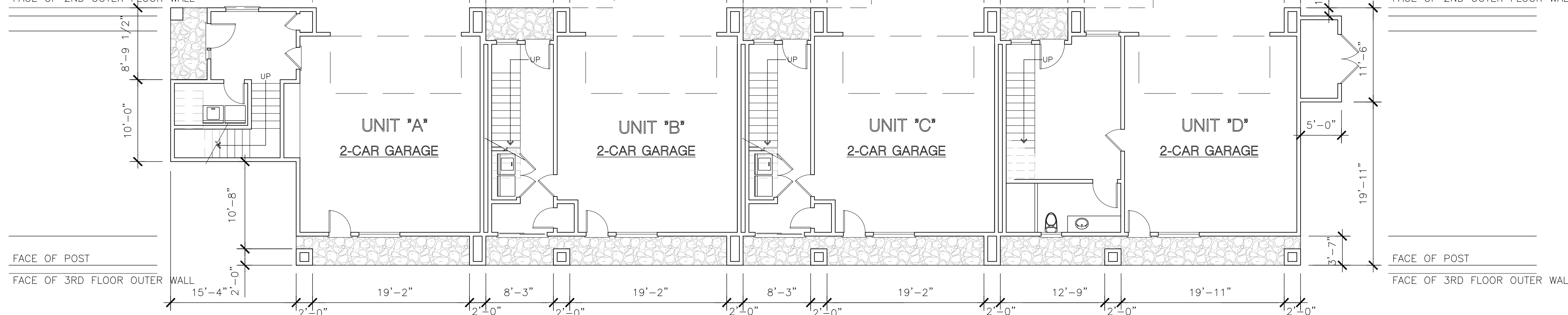
2nd FLOOR PLAN

SCALE: 1/8" = 1'-0"

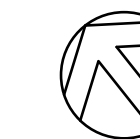


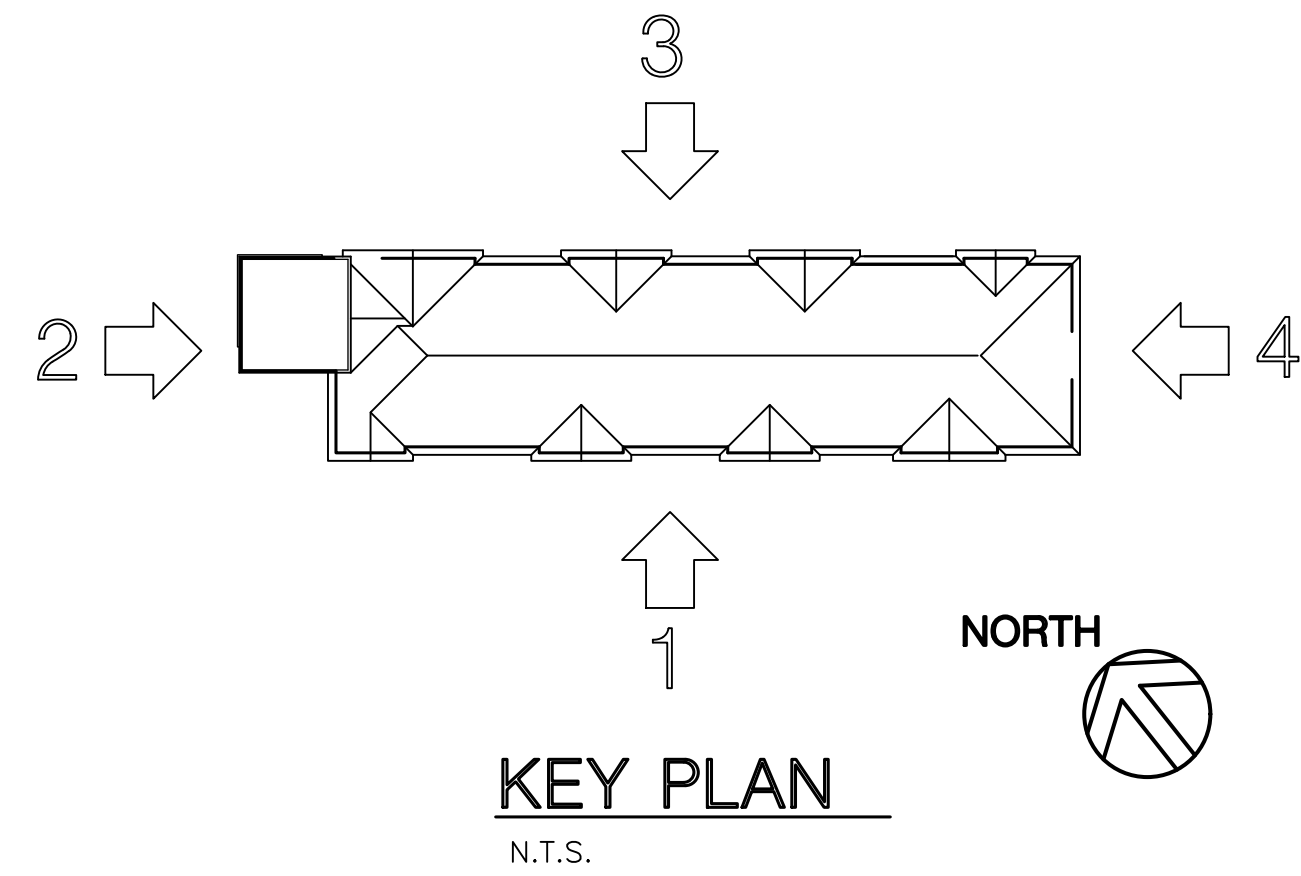
1st FLOOR PLAN

SCALE: 1/8" = 1'-0"



NORTH





STUCCO WALL FINISH
SHERWIN WILLIAMS
HIGH REFLECTIVE WHITE
SW-7757

SECTIONAL GARAGE DOOR
SHERWIN WILLIAMS
HIGH REFLECTIVE WHITE
SW-7757



3 NORTH ELEVATION
SCALE: 1/8" = 1'-0"



4 EAST ELEVATION
SCALE: 1/8" = 1'-0"



2 WEST ELEVATION
SCALE: 1/8" = 1'-0"

FASCIA BOARD AND GUTTER
SHERWIN WILLIAMS
ROCKWEEK
SW-2735

HORIZONTAL SHIP LAP SIDING
"HARDIE" PANEL CEMENT BOARDS
SHERWIN WILLIAMS
HIGH REFLECTIVE WHITE
SW-7757

FIBREX WINDOW W/ ALUMINUM CLAD
"ANDERSEN" 100 SERIES
COLOR: WHITE

WINDOW AND DOOR TRIM
SHERWIN WILLIAMS
ROCKWEEK
SW-2735

COMPOSITION SHINGLE ROOFING
LANDMARK TL BY CERTAIN TEED
COLOR: CHARCOAL GRAY
MIN. CLASS "B" 40 YEARS



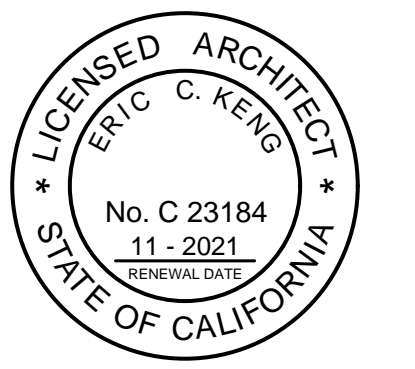
1 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"

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(650) 321-2808

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Client:

DEXTER VILLA

20 DEXTER AVENUE
REDWOOD CITY, CA

NO.	SUBMISSION/REVISION	DATE
△	SUBDIVISION	2-28-20
△	PLN. REV.	6-1-20
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Drawing Title:
BUILDING ELEVATIONS

Drawing Status:
SITE DEVELOPMENT

Drawn By: _____ Checked By: _____ Date: _____

Project Number: _____

Scale: **AS NOTED**

Drawing Number:

SK-3

MWELO SUBMITTAL CHECKLIST

Submittal Date: 5/26/20
 Project Address: 20 Dexter Ave., Redwood City
 Applicant Name: Gregory Lewis Landscape Architect Phone: (831) 359-0960

The following checklist provides a list of information that must be included on the plans before your permit application can be processed. This checklist covers both the performance compliance method and the prescriptive compliance method. Please indicate which compliance method is used and provide the appropriate information on the plans.

Performance Approach Prescriptive Approach (Skip to Page Three)

PERFORMANCE APPROACH

Landscape Documentation Package (Title 23, Chapter 2.7 §492.3)

- The project's address, total landscape area, water supply type, and contacts shall be stated on the plans.
- Add, sign and date the following statement on the plans: "I agree to comply with the requirements of the water efficient landscape ordinance and submit a complete Landscape Documentation Package."
- Water Efficient Landscape Worksheet that includes a hydrozone information table and water budget calculations shall be submitted for plan check.
- A landscape design plan and irrigation design plan shall be submitted for plan check.

Water Efficient Landscape Worksheet (Title 23, Chapter 2.7 §492.4 and §492.13)

- Incorporate the Water Efficient Landscape Worksheet into plans. Show that the Maximum Applied Water Allowance (MAWA) meets or exceeds the calculated Estimated Total Water Use (ETWU).
- The evapotranspiration adjustment factor (ETAF) for the landscape project shall not exceed a factor of (0.55 for residential areas) (0.45 for non-residential areas).
- The plant factor used shall be from WUCOLS or from horticultural researchers with academic institutions. WUCOLS plants database can be found on-line at: <http://ucanr.edu/sites/WUCOLS/>
- All water features shall be included in the high water use hydrozone. All temporary irrigated areas shall be included in the low water use hydrozone.
- All Special Landscape areas shall be identified on the plans. The ETAF for new and existing (non-rehabilitated) Special Landscape Areas shall not exceed 1.0.
- For the purpose of calculating ETWU, the irrigation efficiency is assumed to be 0.75 for overhead spray devices and 0.81 for drip system devices.

Landscape Design Plan (Title 23, Chapter 2.7 §492.6)

- The landscape design plans, at a minimum, shall:
 - Delineate and label each hydrozone by number, letter, or other methods.
 - Identify each hydrozone as low, moderate, high water, or mixed water use.
 - Identify recreational areas, areas solely dedicated to edible plants, areas irrigated with recycled water, type and surface area of water features, impermeable and permeable hardscape, and any infiltration systems.
- For hydrozone with a mix of both low and moderate water use plants or both moderate and high water use plants, the higher plant factor or the plant factor based on the proportions of the respective plant water uses shall be used. Hydrozones containing a mix of low and high water use plants is not permitted.

- Turf is not allowed on slopes greater than 25% where the toe of the slope is adjacent to an impermeable hardscape.
- Add note to plans: "Recirculating water systems shall be used for water features"
- Add note to plans: "A minimum 3-inch layer of mulch shall be applied on all exposed soil surfaces of planting areas except turf areas, creeping or rooting groundcovers, or direct seeding applications where mulch is contraindicated."
- Add note to plans: "For soils less than 6% organic matter in the top 6 inches of soil, compost at a rate of a minimum of four cubic yards per 1,000 square feet of permeable area shall be incorporated to a depth of six inches into the soil"

Irrigation Design Plan (Title 23, Chapter 2.7 §492.7)

- The irrigation plans, at a minimum, shall contain the following:
 - Location and size of spate water meters for landscape
 - Location, type, and size of all components of the irrigation system, including controllers, main and lateral lines, valves, sprinkler heads, moisture sensing devices, rain switches, quick couplers, pressure regulators, and backflow prevention devices.
 - Static water pressure at the point of connection the public water supply
 - Flow rate (gallons per minute), application rate (inches per hour), and design operating pressure (pressure per square inch) for each station.
- A dedicated water service meter or private submeter shall be installed for all (non-residential irrigated landscapes of at least 1,000sqft) (residential irrigated landscape areas of at least 5,000sqft).
- Add note to plans: "Pressure regulating devices are required if water pressure is below or exceeds the recommended pressure of the specified irrigation devices."
- Manual shut-off valves shall be required, as close as possible to the point of connection of the water supply, to minimize water loss in case of an emergency or routine repair.
- Add note to plans: "Check valves or anti-drain valves are required on all sprinkler heads where low point drainage could occur."
- Areas less than 10-feet in width in any direction shall be irrigated with subsurface or drip irrigation.
- Overhead irrigation shall not be permitted within 24-inches of any non-permeable surface.

Required Statements and Certification (Title 23, Chapter 2.7 §492.6, §492.7 and §492.9)

- Add the following statement on the landscape and irrigation plans: "I have complied with the criteria of the ordinance and applied them for the efficient use of water in the landscape design plans"
- The final set of landscape and irrigation plans shall bear the signature of a licensed landscape architect, licensed landscape contractor, certified irrigation designer, licensed architect, licensed engineer, licensed land surveyor, or personal property owner.
- Add note to plans: "A diagram of the irrigation plan showing hydrozones shall be kept with the irrigation controller for subsequent management purposes."
- Add note to plans: "A Certificate of Completion shall be filled out and certified by either the designer of the landscape plans, irrigation plans, or the licensed landscape contractor for the project"
- Add note to plans: "An irrigation audit report shall be completed at the time of final inspection."

**PRESCRIPTIVE APPROACH
 (For landscape areas between 500 and 2,499 square feet)**

Plant Material (Title 23, Chapter 2.7, Appendix D (b) (3))

- For residential areas, 75% of landscape, excluding edibles and areas using recycled water, shall consist of plants that average a WUCOLS plant factor of 0.3. WUCOLS plants database can be found online at: <http://ucanr.edu/sites/WUCOLS/>
- For non-residential areas, 100% of the plants, excluding edibles and areas using recycled water, shall consist of plants that average a WUCOLS plant factor of 0.3.
- Add note to plans: "A minimum 3-inch layer of mulch shall be applied on all exposed soil surfaces of planting areas except turf areas, creeping or rooting groundcovers, or direct seeding applications where mulch is contraindicated."

Turf (Title 23, Chapter 2.7, Appendix D (b) (4))

- Turf shall not exceed 25% of the landscape area in residential areas.
- No turf permitted in non-residential areas
- Turf not permitted on slopes greater than 25%.
- Turf is prohibited in parkways less than 10 feet wide.

Irrigation (Title 23, Chapter 2.7, Appendix D (b) (5))

- Automatic weather-based or soil-moisture based irrigation controllers shall be installed on the irrigation system.
- Pressure regulators shall be installed on the irrigation system to ensure dynamic pressure of the system is within the manufacturer's recommended pressure range.
- Manual-shut-off valves shall be installed as close as possible to the point of connection of the water supply.
- Areas less than 10-feet in width in any direction shall be irrigated with subsurface irrigation or other means that produces no runoff or overspray.
- For non-residential projects with landscape areas of 1,000sqft or more, private sub-meter(s) to measure landscape water use shall be installed.
- Add note to plans: "At the time of final inspection, the permit applicant must provide the owner of the property with a certificate of completion, certificate of installation, irrigation schedule of landscape and irrigation maintenance."
- Add note to plans: "Unless contradicted by a soils test, compost at a rate of a minimum of four cubic yards per 1,000 square feet of permeable area shall be incorporated to a depth of six inches into the soil"

The landscape contractor is to follow all of the County of San Mateo landscape and irrigation check list requirements.

Hydrozone Summary

HYDROZONE	VALVES	IRRIG. METHOD	AREA sq.ft.	% of LANDSCAPE AREA
1 Low water shrub	1	Drip	556	100%
TOTAL			556	100%

Summary by Hydrozone	Area (Sq.ft.)	% of Landscape Area
High Water Use	0	0%
Moderate Water use	0	0%
Low Water Use	556	100%
TOTAL	556	100%

WATER EFFICIENT LANDSCAPE WORKSHEET

Date: 5/12/2020 5/26/20
 Project: Two Duplexes
 Address: 20 Dexter Ave., Redwood City
 Total Planted Area (sq.ft.) 556

Reference Evapotranspiration (Eto): 43 Palo Alto/Los Altos/Redwood City									
HYDRO ZONE NO.	VALVES	HYDRO ZONE DESC.	Plant Factor PF	Irrig. Method	Irrig. Efficiency IE	ETAF PF/IE	LDSCP AREA Square Feet	ETAF x Area	Estimated Total Water Use (Gal.)

Regular Landscape Areas									
1	1	Drip, low water, shrub	0.3	Drip	0.81	0.3704	556	205.93	5,490
2									
3									
4									
5									
6									
7									
8									
Totals							556	206	5,490

Special Landscape Areas									
							1	0	
							1		
							1		
Totals							0		0
ETWU Total									5,490
Maximum Allowed Water Allowance (MAWA)									8,153

Residential ETAF for MAWA calc. 0.55 MAWA (Annual Gallons Allowed) = (Eto) (0.62) [(ETAF x LA) + ((1-ETAF) x SLA)]

ETAF Calculations

Regular Landscape Areas	
Total ETAF x Area	206
Total Area	556
Average ETAF	0.37

All Landscape Areas	
Total ETAF x Area	206
Total Area	556
Sitewide ETAF	0.37

Average total ETAF must be .55 or less for residential

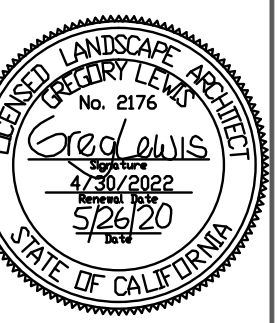
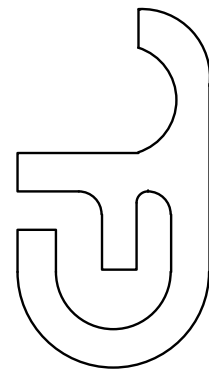
SHEET INDEX

- L0 - LANDSCAPE DOCUMENTATION
- L1 - PLANTING PLAN
- L2 - IRRIGATION PLAN
- L3 - LANDSCAPE DETAILS
- L4 - LANDSCAPE SPECIFICATIONS

Landscape Documentation

Revision
 3/2/20
 5/26/20

GREGORY LEWIS LANDSCAPE ARCHITECT
 #2176
 736 Park Way Santa Cruz, CA 95065 (831) 359-0960



Dexter Villa
 20 Dexter Avenue, Redwood City, CA

Date: 10/7/19
 Scale: As Noted
 Drawn: Greg

Job Sheet
L0
 of 5

Tree Protection During Construction

PROTECTED TREES DESIGNATED FOR PRESERVATION SHALL BE PROTECTED DURING DEVELOPMENT OF A PROPERTY BY COMPLIANCE WITH THE FOLLOWING, WHICH MAY BE MODIFIED BY THE PLANNING DIRECTOR:

- A. PROTECTIVE FENCING SHALL BE INSTALLED NO CLOSER TO THE TRUNK THAN THE DRIPLINE, AND FAR ENOUGH FROM THE TRUNK TO PROTECT THE INTEGRITY OF THE TREE. THE FENCE SHALL BE A MINIMUM OF FOUR FEET IN HEIGHT AND SHALL BE SET SECURELY IN PLACE. THE FENCE SHALL BE OF A STURDY BUT OPEN MATERIAL (I.E., CHAINLINK), TO ALLOW VISIBILITY TO THE TRUNK FOR INSPECTIONS AND SAFETY. THERE SHALL BE NO STORAGE OF ANY KIND WITHIN THE PROTECTIVE FENCING. IF APPROVED BY THE PROJECT ARBORIST THE PROTECTIVE FENCING CAN BE MOVED TO ALLOW FOR CONSTRUCTION OF PAVING, LANDSCAPING, AND STRUCTURES. WHEN IT IS NOT POSSIBLE TO INSTALL FENCING DUE TO THE NEED OF ACCESS TO INSTALL THE STRUCTURES THE PROJECT ARBORIST MAY APPROVE INSTALLATION OF 6 INCH DEEP COARSE BARK AND HEAVY DUTY PLYWOOD OVER THE ROOT ZONE AREA TO KEEP IT FROM BEING OVERLY COMPACTED DURING CONSTRUCTION
- B. THE EXISTING GRADE LEVEL AROUND A TREE SHALL NORMALLY BE MAINTAINED OUT TO THE DRIPLINE OF THE TREE. ALTERNATE GRADE LEVELS MAY BE APPROVED BY THE PLANNING DIRECTOR.
- C. TREES THAT HAVE BEEN DAMAGED BY CONSTRUCTION SHALL BE REPAIRED IN ACCORDANCE WITH ACCEPTED ARBORICULTURE METHODS.
- D. NO SIGNS, WIRES, OR ANY OTHER OBJECT SHALL BE ATTACHED TO THE TREE.

Landscape Notes

- 1 MULCH GROUND COVER - At the end of construction install 3 inch deep top dress mulch on all bare soil areas to reduce the chance of soil erosion except in lawn area or creeping and rooting groundcovers (none on this project). Provide owner with different mulch samples and prices including dark brown mahogany colored Wander Mulch from Vision Recycling Fremont.
- 2 REPLACEMENT TREES - No replacement trees are required. No large trees are being removed
- 3 The planting of medium and high water use plants and lawn is limited by Water Efficient Landscape Rules of San Mateo County. There are no new medium or high water use plants being installed on this project.
- 5 There are no live turf areas.
- 6 There are no water features or pools
- 7 For soils less than 6% organic matter in the top 6 inches of soil, compost at a rate of a minimum of six cubic yards per 1000 square feet of permeable area shall be incorporated to a depth of six inches into the soil. In areas under the canopy of existing trees to remain soil prep, plant pits only and do not rototill soil amendments into all of the ground because you will hurt lots of existing tree roots.

Plant Legend

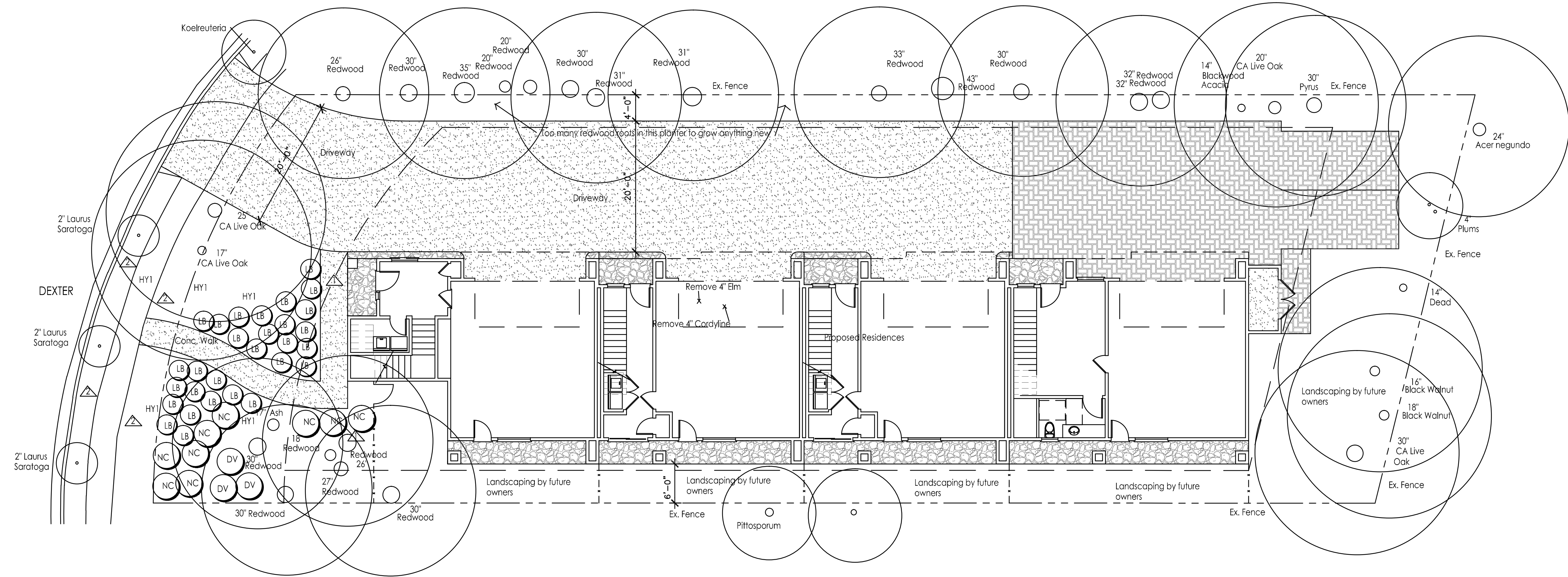
KEY	QTY	SIZE	BOTANICAL NAME	COMMON NAME	WOCULS WATER USE RATING
MEDIUM SHRUBS					
△	3	5	Dietes vegeta	Fortnight Lily	LOW
△	9	5	Nandina Gulf Stream	Heavenly Bamboo	LOW
GROUNDCOVERS					
△	29	1	Lomandra Breeze		LOW

Plant quantities are for planning purposes only. Contractor is to do own plant count and install all plants on plan

Hydrozone Summary

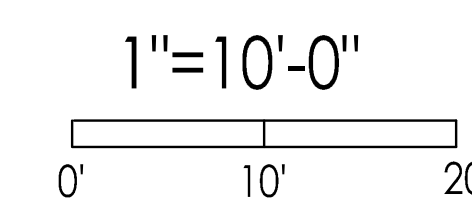
HY	HYDROZONE	VALVES	IRRIG. METHOD	AREA sq.ft.	% of LANDSCAPE AREA
HY 1	1 Low water shrub	1	Drip	556	100%
TOTAL				556	100%

Summary by Hydrozone	Area (Sq.ft.)	% of Landscape Area
High Water Use	0	0%
Moderate Water use	0	0%
Low Water Use	556	100%
TOTAL	556	100%



"I have complied with the criteria of the MWEO ordinance and applied them for the efficient use of water in the landscape design plans" Greg Lewis 5/26/20

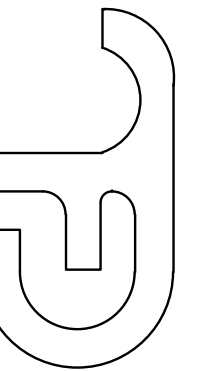
Hydrozone Plan & Landscape Plan



Revision

- △ 3/2/20
- △ 5/26/20

GREGORY LEWIS LANDSCAPE ARCHITECT
 #2176
 736 Park Way Santa Cruz, CA 95065 (831) 359-0960



Dexter Villa
 20 Dexter Avenue, Redwood City, CA

Date 10/7/19
 Scale As Noted
 Drawn Greg
 Job Sheet
 of 5

L1

Drip Irrigation Notes

- Secure larger 3/4" drip tubing 1" below grade with 7" or 11" U-shaped stakes 3 feet on center or closer so that the tubing can be found easily but does not show if the mulch gets brushed away. Cover tubing with soil and mulch and install manual flush valves at ends of tubing and mark them so they can be found easily.
- Run large tubing next to or over rootball of plants to minimize length of smaller 1/4" tubing. Secure emitters on 3/4" tubing at plant root balls. When necessary run short lengths of 1/4" tubing from emitters to plant root balls. Install stakes on 1/4" tubing at 12" on center and cover tubing with 1" of soil plus mulch.
- As the plant and plant rootball increase in size, the locations of the emitters may need to be adjusted so they are evenly spaced over the rootball.
- Install pressure compensating emitters (with minimal difference in flow between 10 PSI and 40 PSI) at each plant on root ball (not right at stem). Use Agrifim PC Plus (pressure compensating emitters). Use the ones that 1/4" tubing can be connected to. Other emitters may have a higher discharge rate at startup requiring larger pipe sizes.

Emitter schedule:
Three 1 GPH emitters at small and medium shrubs and ground covers DV, LB, NC

With shrubs and trees that have multiple emitters, put some over root ball (not right on stem) and some out under future canopy. Space emitters evenly in root zone area.

3/4" PE drip tubing to come within 12" or closer of each plant with a minimum of 1/4" tubing just to get to other side of root ball. The Landscape Contractor is to ask for an inspection at least 3 working days in advance by the landscape architect or owner of the drip tubing and emitter layout prior to burying tubing 1 inch deep to make sure you are doing this.

Irrigation Notes

- See sheet L3 and L4 for details and specifications
- This system is designed to operate with minimum 5 GPM at minimum 55 p.s.i. at the point of connection. If this condition is not met contact the Landscape Architect for possible redesign. If pressure exceeds 75 psi at point of connection install a Wilkins 600 1" pressure regulator. There is approx. _____ static psi at this site.
- Detector tape should be installed with any pressure lines not buried in the same trench with control wires and with any lines of any kind under paving not in a trench with control wires.
- At valve groupings provide a threaded capped pressure line stubout so it is easy to add additional valves later. Run a few extra wires to these locations from the controller - enough so that at least 2 valves could be added at any proposed valve grouping on the plan - especially in the rear yards that are not being landscaped by the developer.
- Electric controllers should be set to water between 6:00 PM and 11:00 a.m. to avoid watering during times of higher wind or temperature and programmed with repeat cycles to avoid runoff. This is not as important for drip that is not affected by the wind. Set irrigation schedule according to plants' water needs.
- The routing of sprinkler lines is schematic on the plan. Do not put valves too close to trees. Stay 8' to 10' away if possible. Do not put pressure lines under trees. Install line in planting areas instead of under paving whenever possible.
- Check with the owner for final location of controller so it can be coordinated with the electrical supply. Run sleeves under driveways and other paving for wires and irrigation lines.
- Add enough hosebibs so that there is a hosebib on the proposed homes or on the irrigation system so that a 50 foot long hose can reach all planter areas from one of the hose bibs.
- An irrigation audit may be required by an independent irrigation auditor as per 492.12 Irrigation Audit of the most recent State MWEL. The irrigation auditor is to provide an irrigation schedule for plants during the establishment period when they need more water and a base schedule for when the plants need less water after establishment. He/she should also provide irrigation parameters used to set the controller as per 492.10 Irrigation Scheduling in the most recent version of the State MWEL.
- All irrigation emission devices must meet the requirements set in the ANSI standard ASABE/ICC 802-2014. "Landscape Irrigation Sprinkler and Emitter Standard" All sprinkler heads installed in the landscape must document a distribution uniformity low quarter of 0.65 or higher using the protocol defined in ASABE/ICC 802-2014
- Pressure regulating devices are required if water pressure is below or exceeds the recommended pressure of the specified irrigation devices
- Check valves or anti-drain valves are required on all sprinkler heads where low point drainage could occur
- Soil moisture levels need to be brought up by hand watering or a temporary spray system before the drip system can take over.
- The contractor is to provide a diagram of the irrigation plan showing hydrozones that shall be kept with the irrigation controller for subsequent management purposes
- The contractor is to provide an "as built" drawing of any significant changes such as pressure line and valve location changes
- A Certificate of Completion shall be filled out and certified by either the designer of the landscape plans, irrigation plans, or the licensed landscape contractor for the project
- An irrigation audit report shall be completed at the time of final inspection

Irrigation Legend

KEY	MANUF.	MANUF. #	DESCRIPTION
	Hunter	Pro-C	4 station Controller expandable for more stations wall mount exterior with Wireless Solar Sync On-Site Weather Station. Controller will change it's program based on current weather conditions. Install weather sensor in a sunny location where it will get rain
	Hunter	PGV 101G	Automatic master valve 1"
			Private 3/4" Water Meter below grade in valve box at point of connection this will keep track of irrigation water use and help find leaks
			1" Manual brass shutoff valve in valve box same size as pressure line
	Hunter	PGV-ASV 075	3/4" antisiphon valve with 3/4" Amiad Filter, Senniger PR30 pressure regulator, and adaptor to drip tubing
	Champion		Hose bib below grade in 10" valve box with ball down lid with outlet pointed up for easy hose connection See Irrigation Note #8.

Hydrozone Summary

Master valves will have to be buried to protect hosebibs. Ask owner if they prefer to connect hose bibs to potable water

HYDROZONE	VALVES	IRRIG. METHOD	AREA sq.ft.	% of LANDSCAPE AREA
3/4" low water shrub	1	Nonpressure line - Sch 40 PVC 3/4" unless noted for larger	556	100%
1" TOTAL				100%

PL	Area (Sq.ft.)	% of Landscape Area
1-1" Primary by Hydrozone	0	0%
High Water Use	0	0%
Moderate Water Use	0	0%
Low Water Use	556	100%
TOTAL	556	100%

1-1" Primary by Hydrozone - Area (Sq.ft.) % of Landscape Area

High Water Use 0 0%

Moderate Water Use 0 0%

Low Water Use 556 100%

TOTAL 556 100%

Lines under paving Sch 40 PVC - 24" of cover

PL Pressure line - 1" Sch 40 PVC

NP Non Pressure line - 1" Sch 40 PVC

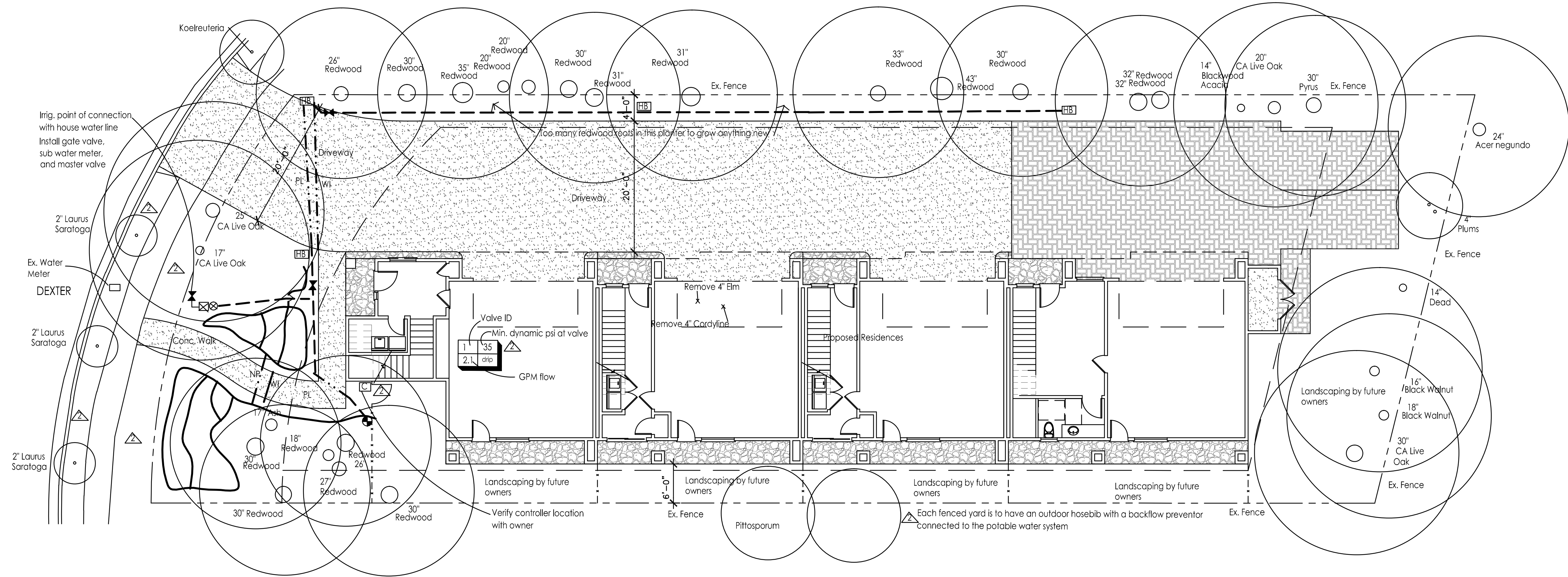
WI 1-1/2" gray elec. conduit for control wires.

Also install an extra capped 1" water line for future use under paving

3/4" PE drip tubing with compression fittings - see Drip Irrigation Notes

3/4" PE drip tubing with compression fittings at tree - see Drip Irrigation Notes

All lines under pavement to be sleeved using a Sch 40 PVC sleeve 2 sizes larger than the pipe inside

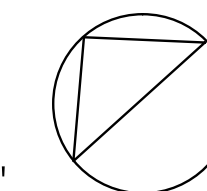


"I have complied with the criteria of the MWEL ordinance and applied them for the efficient use of water in the irrigation design plans" Greg Lewis 5/26/20

Irrigation Plan

1"=10'-0"

0' 10' 20'



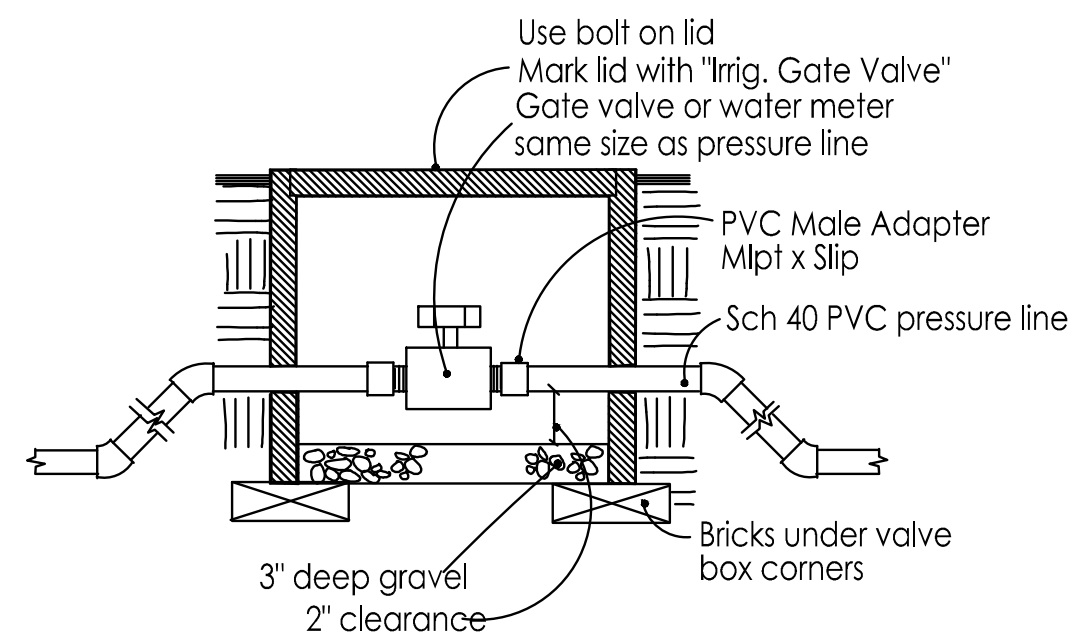
Revision
3/2/20
5/26/20

GREGORY LEWIS LANDSCAPE ARCHITECT
#2176
736 Park Way Santa Cruz, CA 95065 (831) 359-0960



Dexter Villa
20 Dexter Avenue, Redwood City, CA

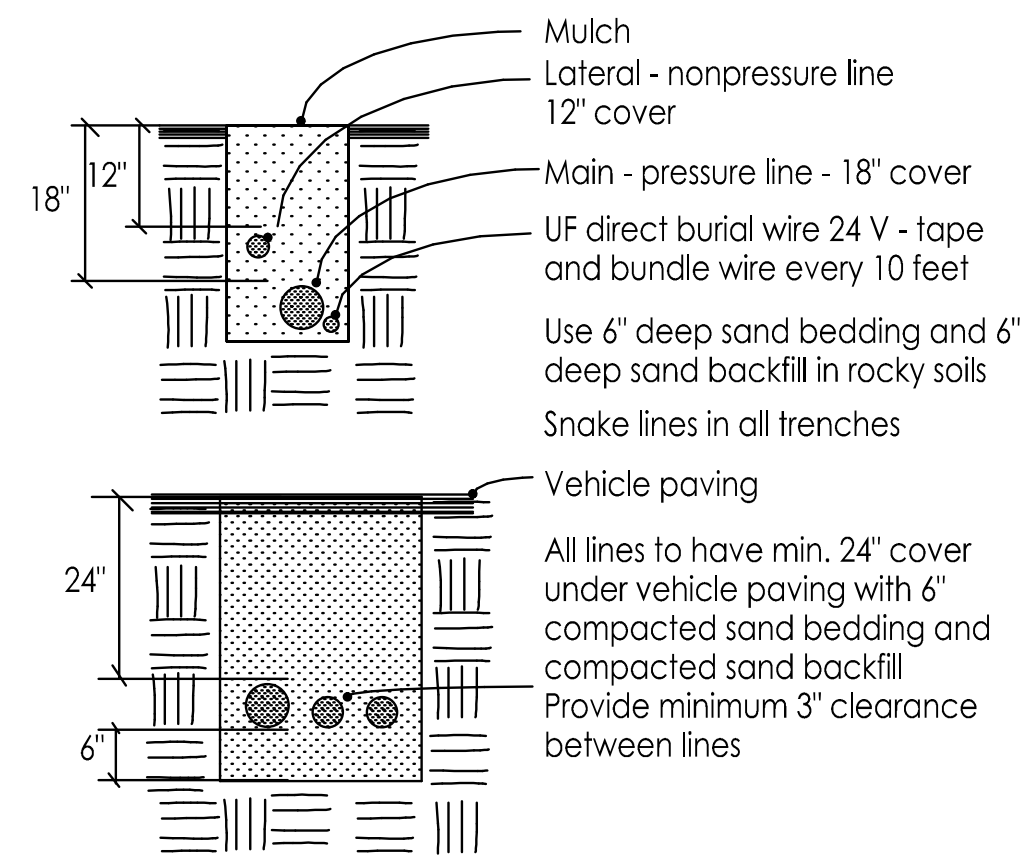
Date 10/7/19
Scale As Noted
Drawn Greg
Job Sheet
5 of L2



Manual Gate Valve

No Scale

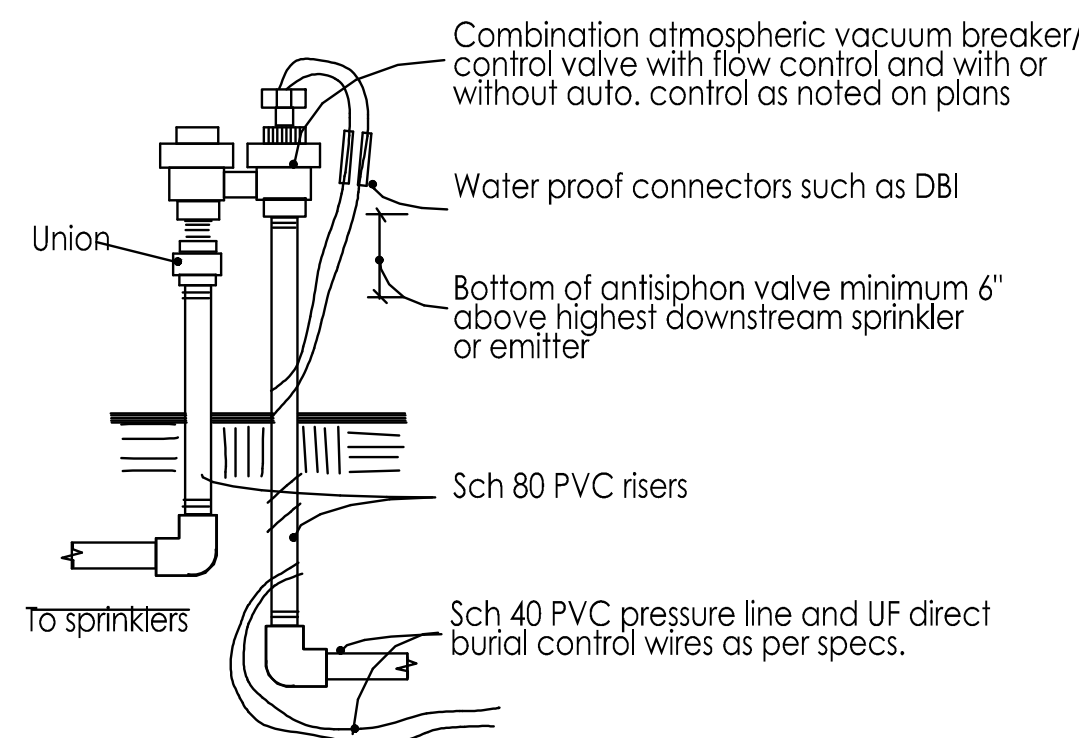
A



Trenches/Lines

No Scale

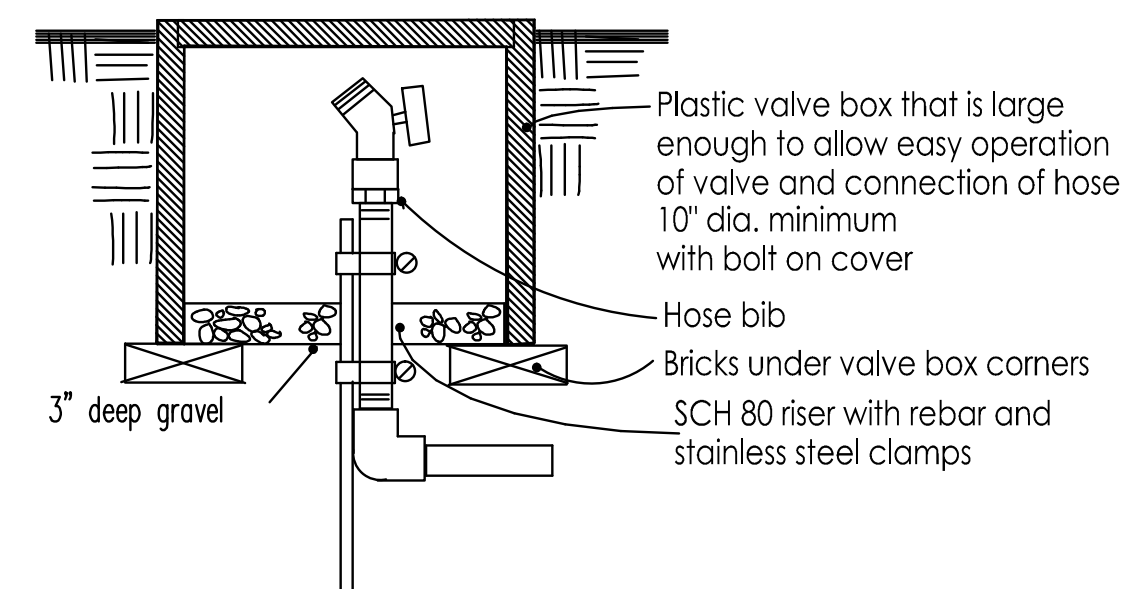
B



Auto. Antisiphon Valve

No Scale

C

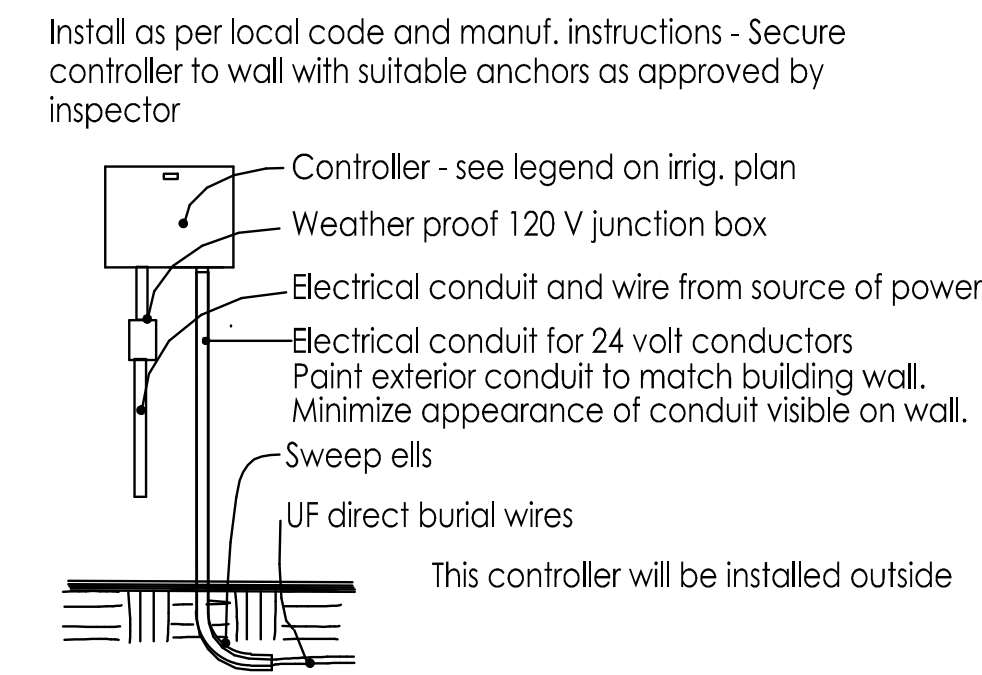


Hose Bibb

Below Grade

No Scale

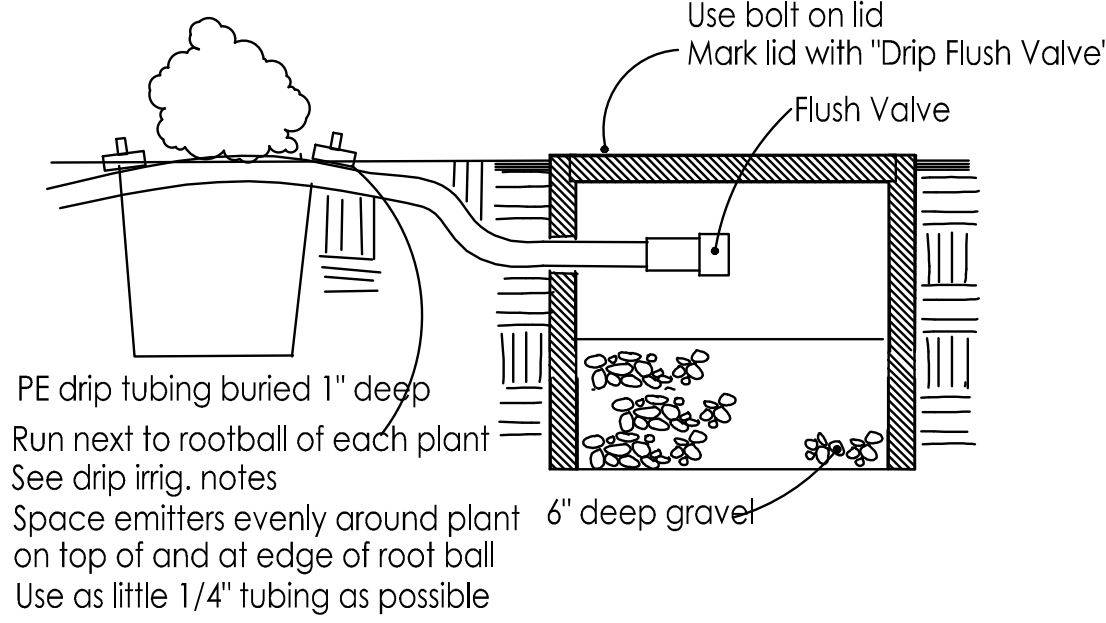
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Wall Mount Controller

No Scale

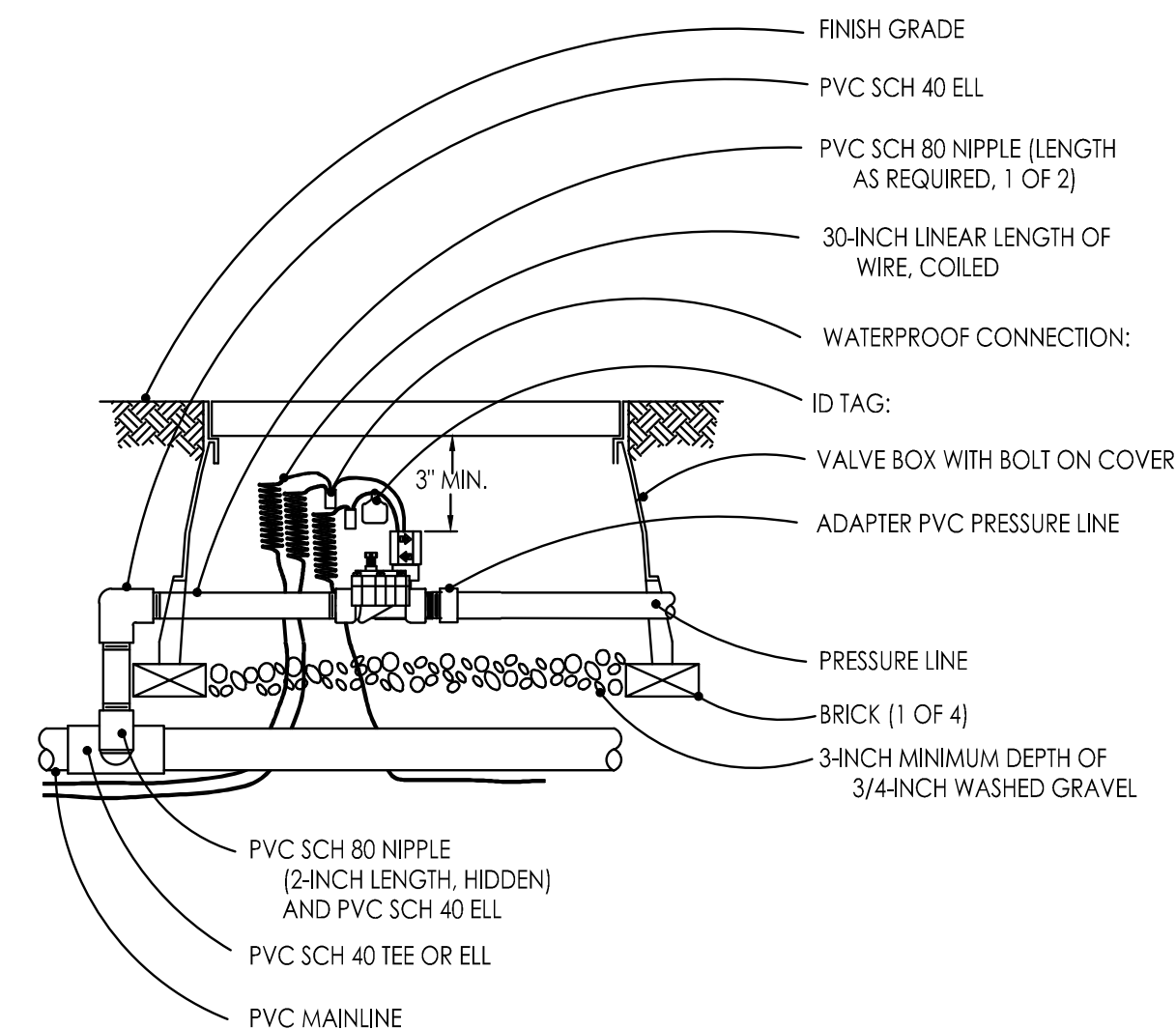
E



Drip Emitter and Flush Valve

No Scale

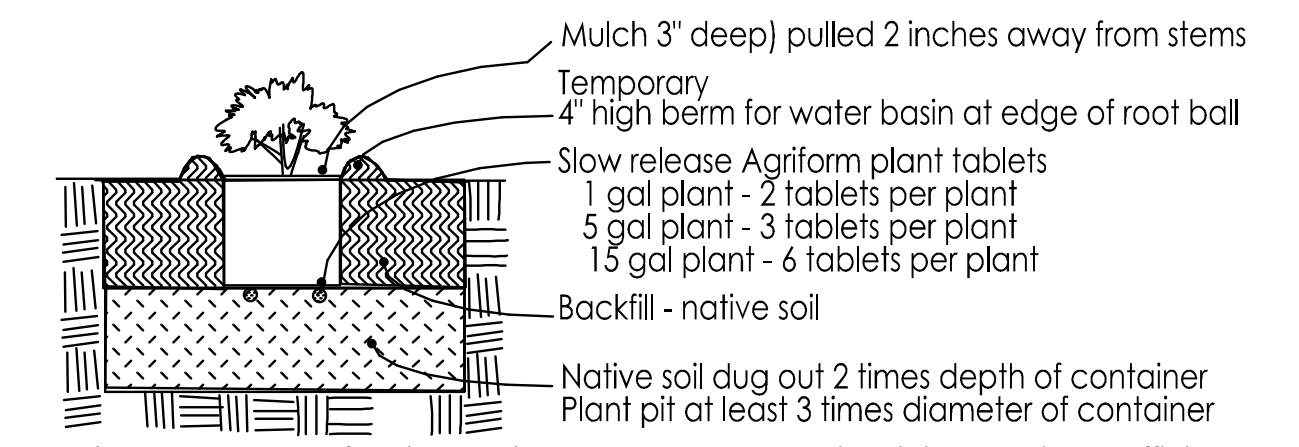
F



Remote Control Master Valve

No Scale

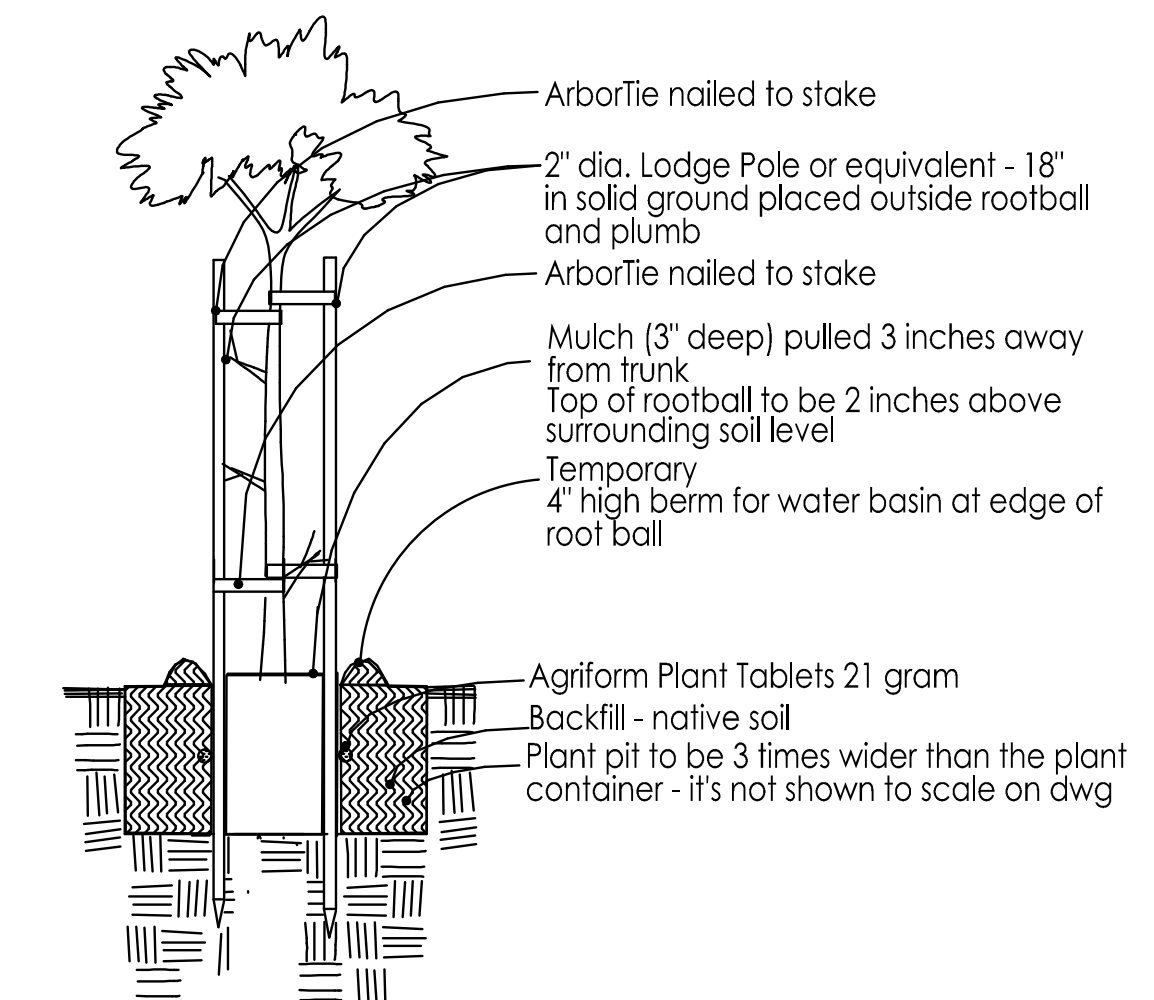
G



Shrub Planting

No Scale

○



- 1) 8 - 12 hours before installation, water all plants while still in containers sufficiently to thoroughly wet root balls
- 2) Dig hole at least 2' less deep than the container and 3 times wider than the diameter of the container the plants were delivered in.
- 3) Gauge holes in the side of the plant pit - 2 holes per sq. ft. of wall surface
- 4) Remove rootball carefully from container with support from below. Sever any circling roots (3/16" dia. or greater) with sharp knife. Do not pull roots apart. The severing of large roots will encourage new roots at the cuts. Install enough backfill under root ball so top of rootball ends up 2" above grade of surrounding soil when it settles. Install some of fertilizer packets under root ball.
- 5) Fill around rootball with backfill mix to 1/2 its height and pack soil as you fill with shovel handle or feet being careful not to disturb root ball
- 6) Put Agriform Plant Tablet fertilizer at this level adjacent to rootball and at bottom of hole (5 tablets per 15 gal. or 5 tablets per 1 inch of caliper width. Fill the remainder of the hole with backfill and pack it.
- 7) Water tree thoroughly by filling the basin and allowing the water to percolate in, doing this 3 times or more until root ball and backfill is wet
- 8) Install stakes such that the stakes and the tree lies won't damage the tree and the stakes won't lean toward each other. Cut off tops of stakes if necessary to lower below branches that could be rubbed by stakes. Install stakes so they are straight up and don't lean in to each other

Tree Planting

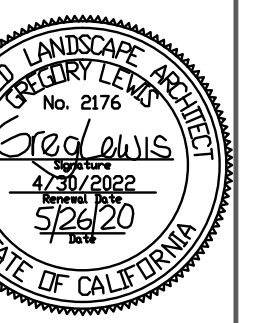
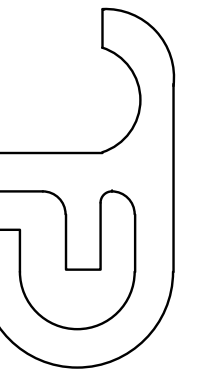
No Scale

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Revision

- 3/2/20
- 5/26/20

GREGORY LEWIS LANDSCAPE ARCHITECT
#2176
738 Park Way Santa Cruz, CA 95065 (831) 369-0960



Dexter Villa
20 Dexter Avenue, Redwood City, CA

Date: 10/7/19
Scale: As Noted
Drawn: Greg

Job Sheet

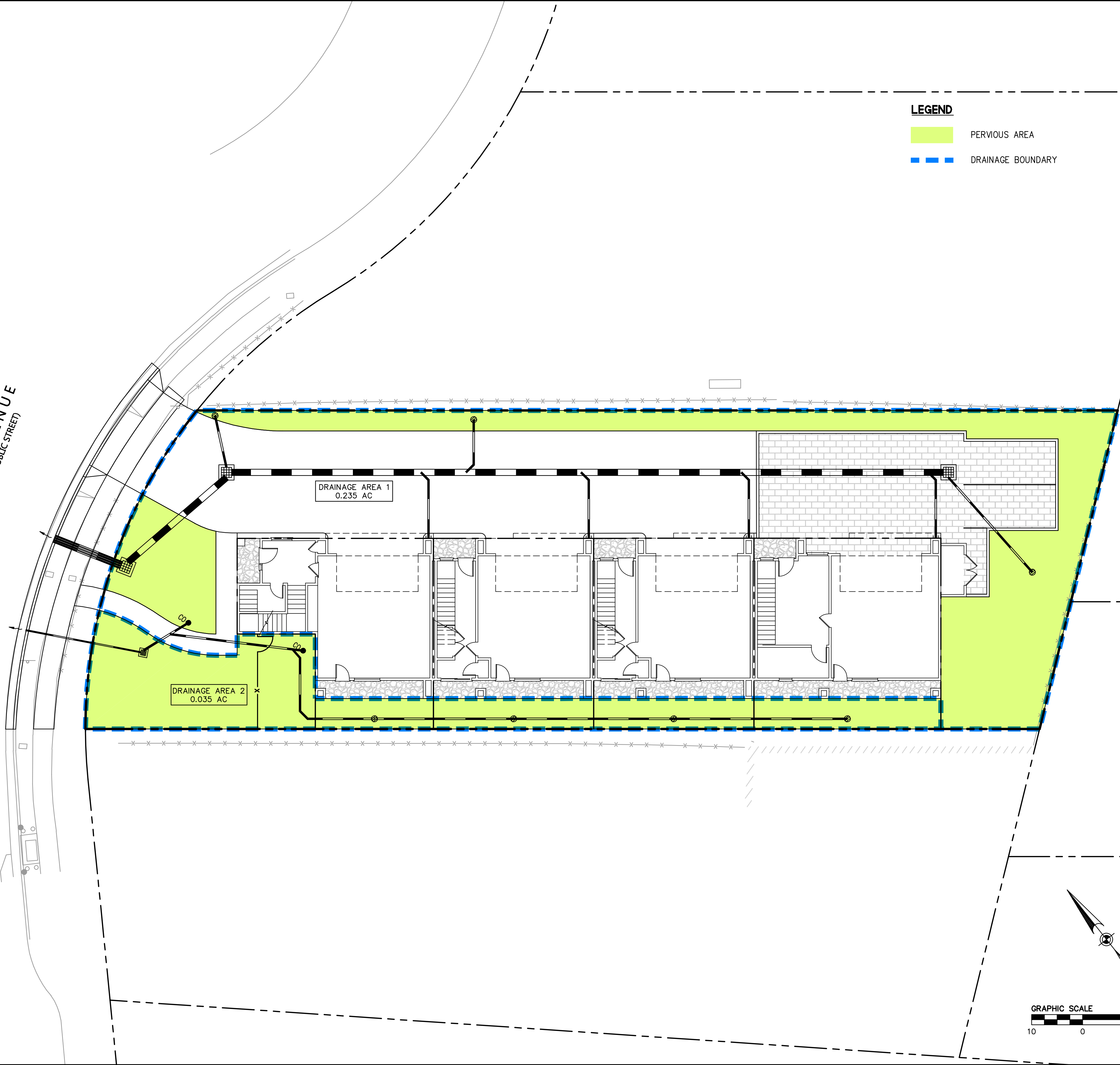
L3

of 5

DRAWING NAME: K:\2019\190603_20_Dexter_Ave_RWC\ENR\EXHIBITS\Fig 1.dwg (Layout)
PLOT TIME: 6/10/2020 10:49 AM

EAST SELBY LANE
(60' R/W - A PUBLIC STREET)

DEXTER AVENUE
(60' R/W - A PUBLIC STREET)



LEGEND

- PERVIOUS AREA
- DRAINAGE BOUNDARY



DATE SIGNED 06/01/20

Revisions	No.	Date	By

Drawing Number:

FIG 1

**20 DEXTER AVENUE
DRAINAGE REPORT
PROPOSED DRAINAGE MAP**

REDWOOD CITY
SAN MATEO COUNTY

CALIFORNIA



255 SHORELINE DR
SUITE 200
REDWOOD CITY, CA 94065
650-482-6300
650-482-6399 (FAX)



County of San Mateo - Planning and Building Department

ATTACHMENT C

Kielty Arborist Services LLC

Certified Arborist WE#0476A

P.O. Box 6187

San Mateo, CA 94403

650-515-9783

November 18, 2019

Green Global Inc.

Attn: Ying Wang

greenglob@sbcglobal.net

Site: 20 Dexter Avenue, Redwood City, CA

Dear Ying Wang,

As requested on Tuesday, October 1st, 2019, I visited the above site to inspect and comment on the trees. Four new homes are proposed for this site, and your concern as to the future health and safety of the trees on site has prompted this visit. A tree protection plan will also be included in this report. Tentative site plan C3.0 was reviewed for writing this report.

Method:

All inspections were made from the ground; the trees were not climbed for this inspection. The trees in question were located on an existing topography map provided by you. The trees were then measured for diameter at 54 inches above ground level (DBH or diameter at breast height). The trees were given a condition rating for form and vitality. The trees condition ratings are based on 50 percent vitality and 50 percent form, using the following scale.

1	-	29	Very Poor
30	-	49	Poor
50	-	69	Fair
70	-	89	Good
90	-	100	Excellent

The height of the trees was measured using a Nikon Forestry 550 Hypsometer. The spread was paced off. Comments and recommendations for future maintenance are provided.

Survey Key:

DBH- Diameter at breast height (54 inches above grade)

CON- Condition rating

HT/SP- Tree height and spread

S-Indicates significant tree (protected) by County Ordinance

R-Indicates proposed tree removal

*****-Indicates tree located on neighbor's property

Survey:

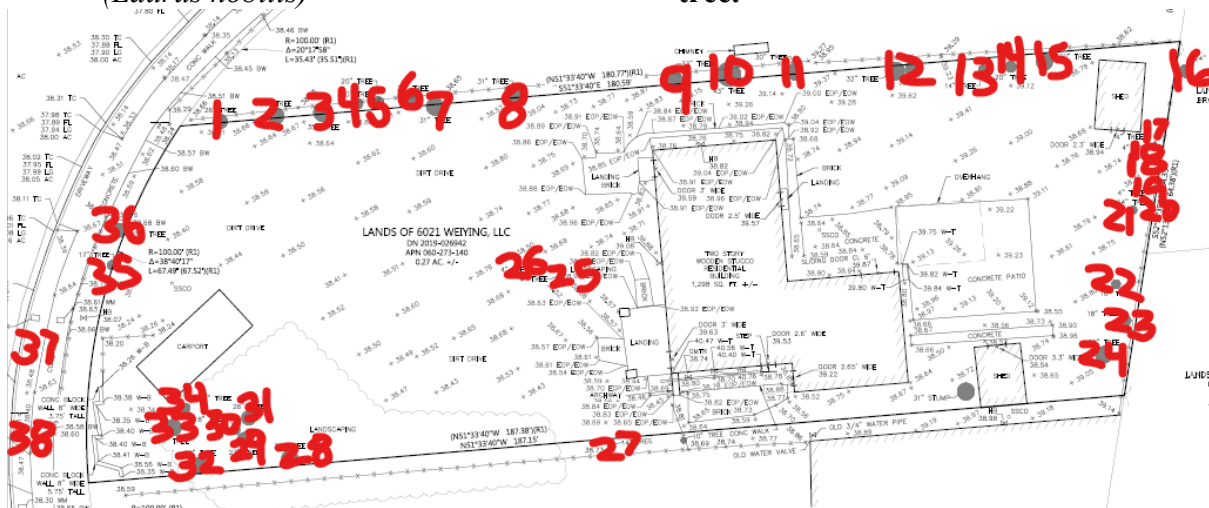
Tree#	Species	DBH	CON	HT/SP	Comments
1S	Redwood (<i>Sequoia sempervirens</i>)	25.6	45	100/25	Poor vigor, poor form, codominant at top of tree, drought stressed. Shared tree
2S	Redwood (<i>Sequoia sempervirens</i>)	32.5	30	100/25	Poor vigor, poor form, in decline, abundance of dead wood. Shared tree
3S	Redwood (<i>Sequoia sempervirens</i>)	30.0	45	100/25	Fair to poor vigor, poor form, codominant at top of canopy, drought stressed. Shared tree
4*S	Redwood (<i>Sequoia sempervirens</i>)	20.0	50	90/20	Fair vigor, fair form, drought stressed, suppressed.
5*S	Redwood (<i>Sequoia sempervirens</i>)	19.3	50	90/20	Fair vigor, fair form, drought stressed, suppressed.
6S	Redwood (<i>Sequoia sempervirens</i>)	30.0	50	100/25	Fair vigor, fair form, drought stressed. Shared tree
7S	Redwood (<i>Sequoia sempervirens</i>)	29.2	50	100/25	Fair vigor, fair form, drought stressed. Shared tree
8S	Redwood (<i>Sequoia sempervirens</i>)	33.3	50	100/25	Fair vigor, fair form, drought stressed. Shared tree
9S	Redwood (<i>Sequoia sempervirens</i>)	33.0	55	110/25	Fair vigor, fair form, poor location, 6 feet from neighbor's home, and close to existing home. Shared tree
10S	Redwood (<i>Sequoia sempervirens</i>)	43.0	60	120/30	Fair vigor, fair form, poor location 4 feet from neighbor's home, and close to existing home. Shared tree
11S	Redwood (<i>Sequoia sempervirens</i>)	25.4	50	100/25	Fair vigor, fair form, poor location, drought stressed, 6 feet from neighbor's home. Shared tree
12S	Redwood (<i>Sequoia sempervirens</i>)	32-32-30	50	100/30	Fair vigor, poor form, multi leader at grade, 8 feet from neighbor's home. Shared tree
13	Black acacia (<i>Acacia melanoxylon</i>)	9.8	40	45/15	Fair vigor, poor form, invasive, suppressed, no room for vertical growth.
14S	Coast live oak (<i>Quercus agrifolia</i>)	13.6	65	50/30	Good vigor, fair form, leans into property.

Survey:

Tree#	Species	DBH	CON	HT/SP	Comments
15	Holly leaf cherry (<i>Prunus ilicifolia</i>)	5.7-8.0	45	30/20	Fair vigor, poor form, suppressed, leans into property.
16*S	Pepper (<i>Schinus molle</i>)	24est	60	40/30	Fair vigor, fair form, limited visual inspection, 6 feet from property line.
17	Flowering plum (<i>Prunus cerasifera</i>)	4.3	45	20/12	Poor vigor, poor form, suppressed, in decline.
18	Flowering plum (<i>Prunus cerasifera</i>)	2.5	30	12/6	Poor vigor, poor form, suppressed, in decline.
19	Flowering plum (<i>Prunus cerasifera</i>)	3.5-3.0	30	14/8	Poor vigor, poor form, suppressed, in decline.
20	Flowering plum (<i>Prunus cerasifera</i>)	2.0	30	8/5	Poor vigor, poor form, suppressed, in decline.
21	Buckeye (<i>Aesculus californica</i>)	10.8	50	35/30	Fair vigor, poor form, suppressed, leans.
22S	Black locust (<i>Robinia pseudoacacia</i>)	14.0	50	45/30	Fair vigor, fair form, poor species, suppressed.
23S	Black locust (<i>Robinia pseudoacacia</i>)	14.2	50	50/30	Fair vigor, fair form, poor species, suppressed.
24S	Coast live oak (<i>Quercus agrifolia</i>)	26.5	80	50/30	Good vigor, fair form, heavy into property.
25	Yucca (<i>Yucca gloriosa</i>)	4.0	50	10/4	Good vigor, fair form.
26	Mulberry (<i>Morus alba</i>)	3.3	80	20/10	Good vigor, good form, young movable tree.
27*S	Pittosporum (<i>Pittosporum tenuifolium</i>)	14.0	30	25/15	Poor vigor, fair form, in decline.
28S	Redwood (<i>Sequoia sempervirens</i>)	30.0	30	70/15	Poor vigor, poor form, dead top.
29S	Redwood (<i>Sequoia sempervirens</i>)	27.0	60	80/15	Fair vigor, fair form, drought stressed.

Survey:

Tree#	Species	DBH	CON	HT/SP	Comments
30S	Redwood (<i>Sequoia sempervirens</i>)	18.0	60	80/15	Fair vigor, fair form, drought stressed.
31S	Redwood (<i>Sequoia sempervirens</i>)	26.0	60	80/15	Fair vigor, fair form, drought stressed.
32S	Redwood (<i>Sequoia sempervirens</i>)	30.0	60	85/15	Fair vigor, fair form, drought stressed.
33S	Redwood (<i>Sequoia sempervirens</i>)	30.0	60	85/15	Fair vigor, fair form, drought stressed.
34	Bottle brush (<i>Callistemon citrinus</i>)	7.5	50	50/30	Fair vigor, poor form, suppressed.
35S	Coast live oak (<i>Quercus agrifolia</i>)	16.2	80	50/35	Good vigor, fair form, leans into street. Street tree
36S	Coast live oak (<i>Quercus agrifolia</i>)	20.2	80	50/35	Good vigor, fair form, leans into street. Street tree
37S	Sweet bay (<i>Laurus nobilis</i>)	2.0	65	10/5	Fair vigor, fair form, recently planted street tree .
38S	Sweet bay (<i>Laurus nobilis</i>)	2.0	65	10/5	Fair vigor, fair form, recently planted street tree .



Showing tree locations



Summary of protected trees:

The trees surveyed are a mix of imported and native trees. All protected trees to be retained will require tree protection fencing throughout the entire length of the construction process. Along the existing driveway and the property line to the north are many large redwood trees. The majority of the large redwood trees are located on the property line and are shared trees with the adjacent neighbor. Redwood trees #1-8 are located adjacent to the existing driveway on site. The strain of vehicles passing over the root zones of the trees has likely stressed the trees through soil compaction. Redwood trees #1-8 look more stressed than the rest of the redwood trees on site as they are near the existing driveway. Redwood trees #1, 2 and 3 are in poor condition likely due to severe soil compaction so close to the tree trunks. Also, the redwood trees on site are under drought stress as a lack of vigor was observed within the tree canopies.

Showing the drought stressed tops of redwood trees #1-3



Redwood trees #9-12 are located very close to the neighbor's home foundation. Large redwood tree #10 is only 4 feet from the neighbor's home. These 4 trees are at high risk of damaging the neighbor's foundation. It is recommended to consult with the neighbor about the redwood trees and any possible foundation damage already existing. This may warrant removal of the redwood trees in close proximity to the neighbor's home (with neighbor's approval). All of the redwood trees need to be irrigated and deep water fertilized to help improve their health.

Showing redwood trees in close proximity to the neighbor's home

Coast live oak tree #14 is in fair condition. The tree is growing heavily into the property as a result of growing in suppressed conditions caused by the redwood trees. This tree is recommended to be pruned using crown reduction cuts in the direction of the tree's lean. Every 3-5 years the tree should be re-inspected for any needed pruning maintenance.

Pepper tree #16 is a protected tree located on the neighbor's property to the east. This tree will require tree protection fencing throughout the entire length of the proposed construction.

Black locust trees #22 and #23 are in fair condition. This species is a poor species as they tend to lose limbs due to naturally formed poor codominant unions. The two locust trees are suppressed.

Coast live oak tree #24 is in good condition. This tree has the highest condition rating on the property. The tree grows heavily into the property. This tree is recommended to be pruned using crown reduction cuts where heavy. Every 3-5 years the tree should be re-inspected for any needed pruning maintenance.

Neighbor's pittosporum tree #27 is in poor condition. This tree is expected to decline regardless of any mitigation measures or the proposed construction.



Redwood trees #28-33 are located in a small grove at the south west front corner of the property. Redwood tree #28 is in poor condition. The top of the tree is dead and the tree is in decline. Redwood tree #28 is proposed for removal as it is not expected to improve with any mitigation measures applied. The remaining redwood trees are in fair condition. Supplemental irrigation will need to be provided to these trees. It is recommended to deep water fertilize the redwood trees in the spring of 2020.

Showing dead top of redwood tree #28 that is proposed for removal

Oak trees #35 and #35 are in good condition. Both trees lean into the street as a result of the suppressed conditions caused by the redwood trees. All future landscaping near the retained oak trees will need to maintain a dry area (no irrigation) at least 15 feet from the two oak trees. Both oak trees are street trees located outside the boundary line.

Sweet bay trees #37 and #38 are street trees. These trees are both recently planted street trees and in fair condition. All street trees are required to be protected in the County of San Mateo.

Protected trees proposed for removal:

Redwood tree #28 is in poor condition. The top of the tree is dead, and the tree is in decline. Redwood tree #28 is proposed for removal as it is not expected to improve with any mitigation measures applied. Also, the proposed hardscape work in close proximity to the tree is expected to have a high impact on the already declining tree.

Trees #7, and #12-15 are all in very close proximity to the proposed driveway for the site. Due to the elevated root crowns, tree removal may be needed to perform the necessary driveway construction.

Impacts/Recommendations:

The proposed driveway on site is located in the same place as the existing driveway but is to be extended all the way to the back of the property. The existing driveway consist of gravel and bare soil and has done little to discourage root growth into the property. The proposed driveway is recommended to be built on top of existing grade. Only a maximum excavation depth of 6 inches will be allowed in this area. The actual concrete driveway slab should be on top of the existing grade. A layer of Biaxial Geogrid (Tensar BX-1100 or equivalent) should be placed at the bottom of the 6 inches of excavation. The geogrid will help to improve filtration, reduce base thickness needed and reduce the compaction of underlying parent soil to 85%. Any roots within the base section of the driveway will need to be retained by packing base material around the roots. The Project Arborist will need to be on site during the proposed driveway work. All excavation for the proposed driveway will need to be done by hand in combination with an air knife. All exposed roots during the excavation process will need to be covered with wetted down burlap and kept moist to avoid root desiccation. Any roots that may need to be cut during the driveway work must first be shown to the Project Arborist. Impacts from the driveway if the above recommendations are followed are expected to be minor to moderate. It is recommended to deep water fertilize the trees in spring of 2020. The trees should also be receiving supplemental irrigation weekly from the neighbor's property and the subject property. Irrigation should be supplied to the redwood trees once a week during the dry season until the top foot of soil is saturated. The trees near the proposed driveway will need to be protected by wrapping the tree trunks with straw wattle to a height of 8 feet. Orange plastic fencing shall then be wrapped around the straw wattle. During construction of the homes on site, a landscape barrier must be installed between the trees and the proposed homes on site if the driveway work is to take place at the end of the project.

All utility line work has been placed as far from the trees as possible. All excavation for utility work when within 20 feet of a protected tree to be retained shall be done manually by hand in combination with an air knife. A mini jackhammer with a clay spade attachment can also be used to help dig around tree roots. The lines shall be placed underneath or besides roots when possible in order to reduce the need to cut existing roots. Exposed roots during this process will need to be covered in burlap and kept moist by wetting down the burlap multiple times a day. The Project Arborist will need to be on site during the utility line work. Any roots that need to be cut must first be shown to the Project Arborist. Roots must be cut using a hand saw or

loppers. Impacts are expected to be minor. The recommended irrigation and fertilizing of the redwood trees will act as mitigation for the minor impacts. Oak trees #35 and #36 may need to be irrigated if roots are traumatized during this work.

All walkway hardscapes must be constructed as close as possible to on top of grade. A maximum of 6 inches of excavation will be allowed where pathways are proposed near trees on site.

Energy dissipater outfalls are proposed near redwood trees #29-34 and oak tree #24. All excavation needed for this work will need to take place by hand. Where roots are encountered, they should be cleanly cut under the Project Arborist supervision. Impacts are expected to be minor. The following tree protection plan will help to insure the future health of the retained trees on site.

Tree Protection Plan:

Tree protection zones should be established and maintained throughout the entire length of the project. All tree protection measures, recommended inspections, irrigation, and construction scheduling shall be implemented in full by the owner and contractor. Fencing for the protection zones should be 6-foot-tall metal chain link type supported by 2-inch diameter metal poles pounded into the ground to a depth of no less than 2 feet. The support poles should be spaced no more than 10 feet apart on center. The location for the protection fencing should be placed at a minimum distance equal to the trees driplines, and at a maximum distance of 10 times the trees diameters where possible. Where tree protection fencing cannot be placed at the dripline because of the approved proposed work, tree protection should be placed as close as possible to the proposed work while still allowing room for construction to safely continue. Signs should be placed on fencing signifying "Tree Protection Zone - Keep Out". No materials or equipment should be stored or cleaned inside the tree protection zones. If tree protection zones need to be reduced for access or any other reason than a landscape barrier shall be installed where tree protection does not extend out to the tree driplines. Trees near the existing and proposed driveway will need to be protected by wrapping the tree trunks with straw wattle to a height of 8 feet. Orange plastic fencing shall then be wrapped around the straw wattle. During construction of the homes on site, a landscape barrier must be installed between the trees and the proposed homes on site if the driveway work is to take place at the end of the project.

Landscape Barrier

Where tree protection does not cover the entire root zone of the trees (at canopy spread), or when a smaller tree protection zone is needed for access, a landscape buffer consisting of wood chips spread to a depth of six inches with plywood or steel plates placed on top will be placed where foot traffic is expected to be heavy. The landscape buffer will help to reduce compaction to the unprotected root zone.

Tree Pruning

During construction any trimming will be supervised by the site arborist and must stay underneath 25% of the tree's total foliage. At this time no pruning is proposed. All pruning shall be done by a licensed tree care provider.

Root Cutting

Any roots to be cut should be monitored and documented. Large roots or large masses of roots to be cut should be inspected by the site arborist. The site arborist may recommend irrigation and a tree monitoring program at that time. Cut all roots clean with a saw or loppers. Roots to be left exposed for a period of time should be covered with layers of burlap and kept moist. All roots measuring 1.5 inches in diameter or larger to be cut, must first be shown to the Project Arborist.

Trenching and Excavation

Trenching and excavation shall strive to stay outside of the tree protection zones. If not possible trenching for any reason, should be hand dug when beneath the dripline of desired trees. Hand digging and careful placement of pipes below or beside protected roots will dramatically reduce root loss, thus reducing trauma to desired trees. Trenches should be back filled as soon as possible using native materials and compacted to near original levels. Trenches to be left open with exposed roots shall be covered with burlap and kept moist. Plywood laid over the trench will help to protect roots below.

Irrigation

Normal irrigation should be maintained throughout the entire length of the project for the redwood trees. Irrigation should consist of surface flooding, with enough water to wet the entire root zone once a week during the dry season. The top foot of soil shall be saturated. The native oak trees shall not be irrigated unless their root zones are traumatized.

Inspections

The site will be inspected after the tree protection measures are installed, and before the start of construction. Monthly inspections are generally required for site such as this. Inspections will be carried out during the first week of each month. The inspections will be documented with inspection letters being provided to the owner and contractor. Other inspections will be carried out on an as needed basis. It is the contractor's responsibility to notify the Project Arborist when construction is to start, and whenever there is to be work performed underneath the canopy of a tree to be retained. Kielty Arborist Services can be reached at 650-515-9783(Kevin), or by email at kkarbor0476@yahoo.com.

Further information about tree protection can be found in the Tree Technical Manual provided by the city of Palo Alto. This information should be kept on site at all times. The information included in this report is believed to be true and based on sound arboricultural principles and practices.

Sincerely, Kevin R. Kielty Certified Arborist WE#0476A



Kielty Arborist Services

P.O. Box 6187
San Mateo, CA 94403
650-515-9783

ARBORIST DISCLOSURE STATEMENT

Arborists are tree specialists who use their education, knowledge, training and experience to examine trees, recommend measures to enhance the beauty and health of trees, and attempt to reduce the risk of living near trees. Clients may choose to accept or disregard the recommendations of the arborist, or seek additional advice.

Arborists cannot detect every condition that could possibly lead to the structural failure of a tree. Trees are living organisms that fail in ways we do not fully understand. Conditions are often hidden within trees and below ground. Arborists cannot guarantee that a tree will be healthy or safe under all circumstances, or for a specified period of time. Likewise, remedial treatments, like a medicine, cannot be guaranteed.

Treatment, pruning, and removal of trees may involve considerations beyond the scope of the arborist's services such as property boundaries, property ownership, site lines, disputes between neighbors, landlord-tenant matters, etc. Arborists cannot take such issues into account unless complete and accurate information is given to the arborist. The person hiring the arborist accepts full responsibility for authorizing the recommended treatment or remedial measures.

Trees can be managed, but they cannot be controlled. To live near a tree is to accept some degree of risk. The only way to eliminate all risks is to eliminate all trees.

Arborist: Kevin R. Kielty
Kevin R. Kielty

Date: November 18, 2019



County of San Mateo - Planning and Building Department

ATTACHMENT D

County of San Mateo
Planning and Building Department

In-Lieu Park Fee Worksheet

[This formula is excerpted from Section 7055 of the County's Subdivision Regulations]

This worksheet should be completed for any residential subdivision which contains 50 or fewer lots. For subdivisions with more than 50 lots, the County may require either an in-lieu fee or dedication of land.

1. **For the parcel proposed for subdivision, look up the value of the land on the most recent equalized assessment roll. (Remember you are interested in the land only.)**

Value of Land = \$1,422,900

2. **Determine the size of the subject parcel in acres.**

Acres of Land = 0.27

3. **Determine the value of the property per acre.**

- a. **Set up a ratio to convert the value of the land given its current size to the value of the land if it were an acre in size.**

Formula:	
$\frac{\text{Parcel Size in Acres (From Item 2)}}{1 \text{ Acre of Land}}$	$\frac{\text{Value of Subject Parcel (From Item 1)}}{\text{Value of Land/Acre}}$
Fill Out:	
$\frac{0.27}{1 \text{ Acre}}$	$\frac{\$1,422,900}{\text{Value of Land/Acre}}$

b. Solve for X by cross multiplying.

Formula:		
Value of Land =	$\frac{\text{Value of the Subject Parcel (From Item 1)}}{\text{Size of the Subject Parcel in Acres (From Item 2)}}$	= _____
Fill Out:		
Value of Land =	$\frac{\$1,422,900}{0.27}$	= $\underline{\$5,270,000}$

c. Determine the number of persons per subdivision.

Formula:				
Number of New Lots Created*	X	3.10**	=	Number of Persons Per Subdivision
*Example = A 2-lot split would = 1 newly created lot.				
Fill Out:				
3	X	3.10**	=	9.3
**Average number of persons per dwelling unit according to the most recent federal census (2010).				

d. Determine the parkland demand due to the subdivision.

Formula:				
Number of Persons Per Subdivision (From Item 4)	X	0.003*** Acres/Person	=	Parkland Demand
Fill Out:				
9.3	X	0.003*** Acres/Person	=	0.0279
*** Section 7055.1 of the County's Subdivision Ordinance establishes the need for 0.003 acres of parkland property for each person residing in the County.				

e. Determine the parkland in-lieu fee.

Formula:			
Parkland Demand (From Item 5)	X	Value of the Land/Acre (From Item 3.b)	= Parkland In-Lieu Fee
Fill Out:			
<u>0.0279</u>	X	<u>\$5,270,000</u>	= <u>\$147,033</u>