

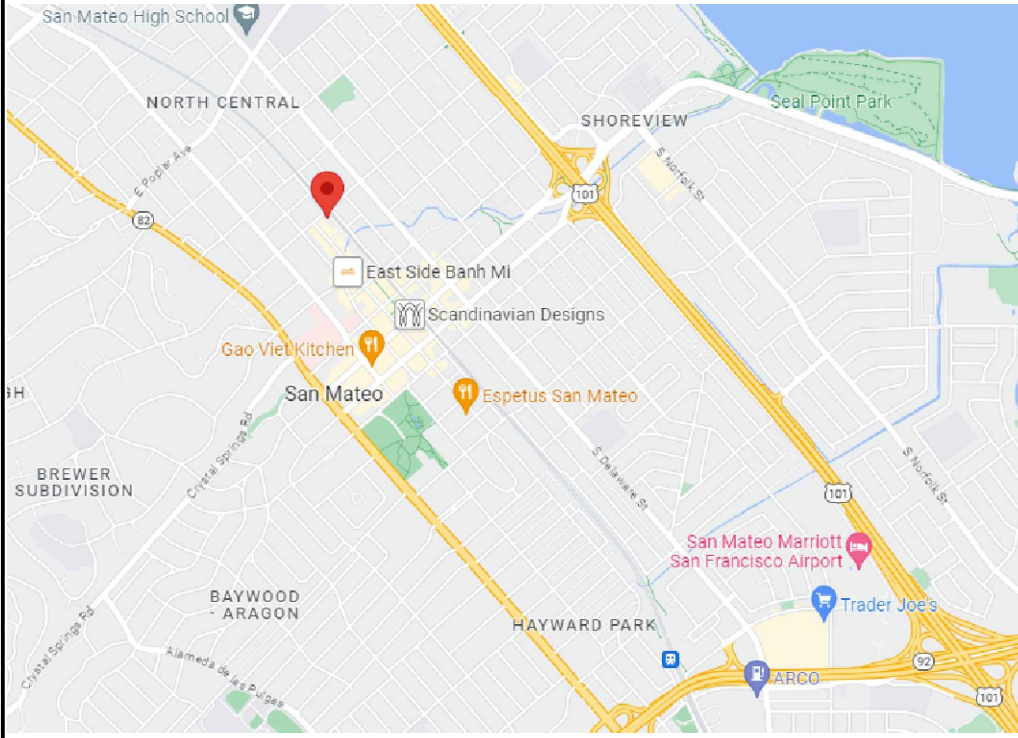










Site Address: 328 TILTON AVE, SAN MATEO		
APN: 032-323-010		
Zoning Classification: C1-2/R5		
Lot Size (Sq. Ft.): 5,600		
Permitted Floor Area Ratio: 3.0		
Maximum Permitted Floor Area (Sq. Ft.): 16,800		
	Existing:	Proposed:
Floor Area (Sq. Ft.): ¹		
Main Structure(s):	2,569	5,782
Detached Accessory Structures:	510	0
Exemptions: ²		
Total Floor Area:	3,079	5,782
Total Floor Area for Parking Requirements: ³		
Total Covered Parking Stalls:		
Total Uncovered Parking Stalls:		
Total Bicycle Parking Spaces		
Total Long-Term Bicycle Parking Spaces		
Total Short-Term Bicycle Parking Spaces		
Total Number of Units	4	
Unit Type(s)	No.	Proposed Size
Studio	0	0
1-bedroom	2	690
4-bedroom	2	1,360
List of All Trees on Site including Species and Size:	MAPLE TREE, 24" DBH	
Total area of new and rehabilitated landscape area (Sq. Ft.):	968	
Cubic Yards of Soil Disturbance: (required in order to determine if a Stormwater Pollution Prevention Construction Permit is required)	CUT: 120 FILL: 35 TOTAL EARTHWORK: 85	
1. See Zoning Code Section 27.04.200 (b) (1) for full Floor Area definition.		
2. See Zoning Code Section 27.04.200 (b) (2) for full list of Floor Area exclusions.		
3. See Zoning Code Section 27.04.200 (d) for full list of Parking Floor Area exclusions (does not apply to general office, retail stores, food stores, drug stores, and shopping center uses)		

TILTON APARTMENTS

NEW MULTI-FAMILY APARTMENTS

328 TILTON AVENUE

SAN MATEO, CA 94401

VICINITY MAP (NO SCALE)	PROJECT DIRECTORY	PROJECT DATA	SCOPE OF WORK	DRAWINGS INDEX	
 	<p>PROPERTY OWNER/APPLICANT: ANDRIKA PRASAD 328 TILTON AVENUE SAN MATEO, CA 94401 rmprasod27@yahoo.com</p> <p>ARCHITECT: REID LERNER ARCHITECTS 7680 MONTEREY STREET, SUITE 105 GILROY, CA 95020</p> <p>SURVEYOR/CIVIL ENGINEER: ZHEN'S LAND SURVEYING CORP. 1121 S GRANT STREET SAN MATEO, CA 94402</p> <p>LANDSCAPE ARCHITECT: AITKEN ASSOCIATES LANDSCAPE ARCHITECTS 8262 RANCHO REAL GILROY, CA 95020</p> <p>ARBORIST: ARBOR RESOURCES PO BOX 25295 SAN MATEO, CA 94402</p>	<p>APN: 032-323-010 LOT AREA: 5,600 SF (50'X112')</p> <p>OCCUPANCY GROUP: 'R-2' (MULTIFAMILY) & 'U' (CARPORT)</p> <p>TYPE OF CONSTRUCTION: VB (SPRINKLERED)</p> <p>No. OF STORIES: 2 (TWO) </p> <p>BUILDING HEIGHT: 26'-0" </p> <p>ZONING: C1-2/R5</p> <p>FLOOD ZONE:</p> <p>PARKING PROPOSED: 2 STALLS (SEE PARKING ANALYSIS) </p>	<p>1. BUILD 5,782 SQUARE FEET BUILDING INCLUDING 2,891 SQUARE FEET CARPORT (2) & MULTIFAMILY UNIT (1) WITH PATIO ON GROUND FLOOR AND 2,891 SQUARE FEET MULTIFAMILY UNITS (3) WITH BALCONIES ON UPPER FLOOR. THE UNIT ON THE GROUND FLOOR SHALL BE ADAPTABLE PER CBC-11A.</p> <p>2. ON-SITE IMPROVEMENTS INCLUDE BUILDING CARPORT, DRIVEWAY, ACCESSIBLE RAMP, PAVED YARD, WALKWAYS, FENCES, LANDSCAPE, AND MINOR GRADING.</p> <p>3. OFF-SITE IMPROVEMENTS INCLUDE INSTALLING NEW DRIVEWAY APPROACH, NEW SIDEWALK, NEW ADA RAMPS, AND JOINT TRENCH FOR UPGRADING UTILITY SERVICES TO PROPOSED BUILDING. ANY WORK IN PUBLIC RIGHT OF WAY REQUIRE A PERMIT FROM PUBLIC WORKS DEPARTMENT.</p> <p>NOTE: ALL EXISTING STRUCTURES, INCLUDING EXISTING HOUSE AND GARAGE, TO BE DEMOLISHED UNDER SEPARATE PERMITS.</p>	<p>ARCHITECTURAL</p> <p>A0 COVER SHEET A1 PROPOSED SITE PLAN A1.1 EXISTING SITE PLAN A2 PROPOSED GROUND FLOOR PLAN A3 PROPOSED 2ND FLOOR PLAN A3.1 EXISTING FLOOR PLAN @ SINGLE FAMILY HOME A3.2 EXISTING FLOOR PLAN @ GARAGE & MULTIFAMILY UNITS A4 PROPOSED ROOF PLAN A5 PROPOSED ELEVATIONS A6 PROPOSED ELEVATIONS A7 BUILDING SECTIONS A8 FLOOR AREA CALCULATION DIAGRAM A9 EXISTING ELEVATIONS A10 EXISTING ELEVATIONS  A11 STREETSCAPE ELEVATIONS A12 STREETSCAPE ELEVATIONS A13 WINDOW LOCATION & PRIVACY DIAGRAM  A14 WINDOW SCHEDULE</p> <p>ARBORIST REPORT </p> <p>T-1 ARBORIST REPORT T-2 ARBORIST REPORT & TREE PLANTING FORM</p> <p>LANDSCAPE</p> <p>L-1 PLANTING & LIGHTING PLAN L-2 IRRIGATION PLAN L-3 IRRIGATION & PLANTING DETAILS</p> <p>SURVEY</p> <p>1 TOPOGRAPHIC SURVEY </p> <p>CIVIL</p> <p>C1 GRADING & DRAINAGE PLAN C2.0 STORMWATER CONTROL PLAN C2.1 STORMWATER CONTROL PLAN C3 STORM DRAIN & UTILITY PLAN</p>	
DEFERRED SUBMITTAL	APPLICABLE CODES & REQUIREMENTS	ALLOWABLE HEIGHT & AREA ANALYSIS	PARKING ANALYSIS		
1. FIRE SPRINKLER & FIRE ALARM SYSTEM DESIGN	<p>ALL WORK SHALL COMPLY WITH APPLICABLE CODES AND STANDARDS INCLUDING:</p> <p>2022 CALIFORNIA BUILDING CODE (CBC)</p> <p>2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CGBSC)</p> <p>2022 CALIFORNIA MECHANICAL CODE (CMC)</p> <p>2022 CALIFORNIA PLUMBING CODE (CPC)</p> <p>2022 CALIFORNIA ELECTRICAL CODE (CEC)</p> <p>2022 CALIFORNIA ENERGY CODE (CEnC)</p> <p>2022 CALIFORNIA FIRE CODE WITH CITY & COUNTY AMENDMENTS</p> <p>CITY OF SAN MATEO MUNICIPAL CODE</p> <p>OBTAIN PERMITS AND INSPECTION AS REQUIRED</p>		<p>VEHICLE PARKING: REQUIRED: 0 THE SUBJECT SITE IS LOCATED WITHIN ¼ MILE OF A MAJOR TRANSIT STOP (CALTRAIN SAN MATEO STATION). PER AB2097, THE SUBJECT SITE IS EXEMPT FROM PARKING REQUIREMENT. </p> <p>PROPOSED: 2 COVERED STALLS</p> <p>BICYCLE PARKING: REQUIRED: 6 (PER SMMC 27.64.262)  SHORT TERM: 1 (0.15 PER UNIT) LONG TERM: 5 (1.5 PER UNIT)</p> <p>PROPOSED: 6 SHORT TERM: 1 LONG TERM: 5</p>		

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TILTON APARTMENTS

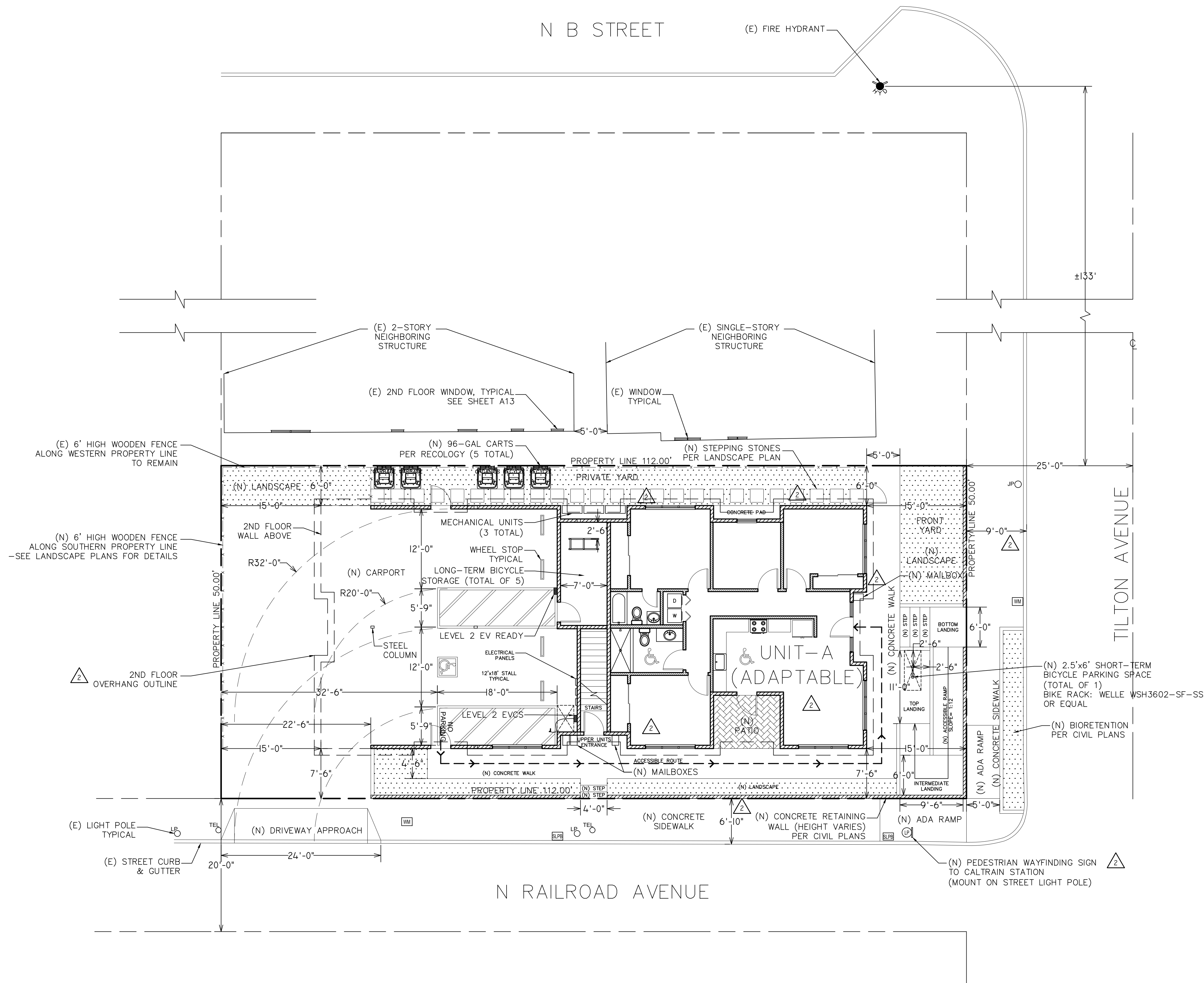
NEW MULTI-FAMILY APARTMENTS

328 TILTON AVENUE

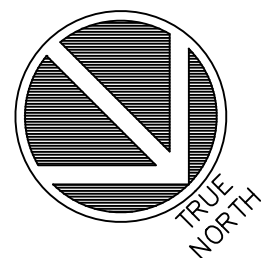
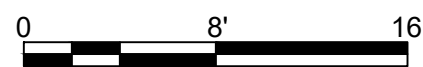
SAN MATEO, CA 94401

COVER SHEET

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



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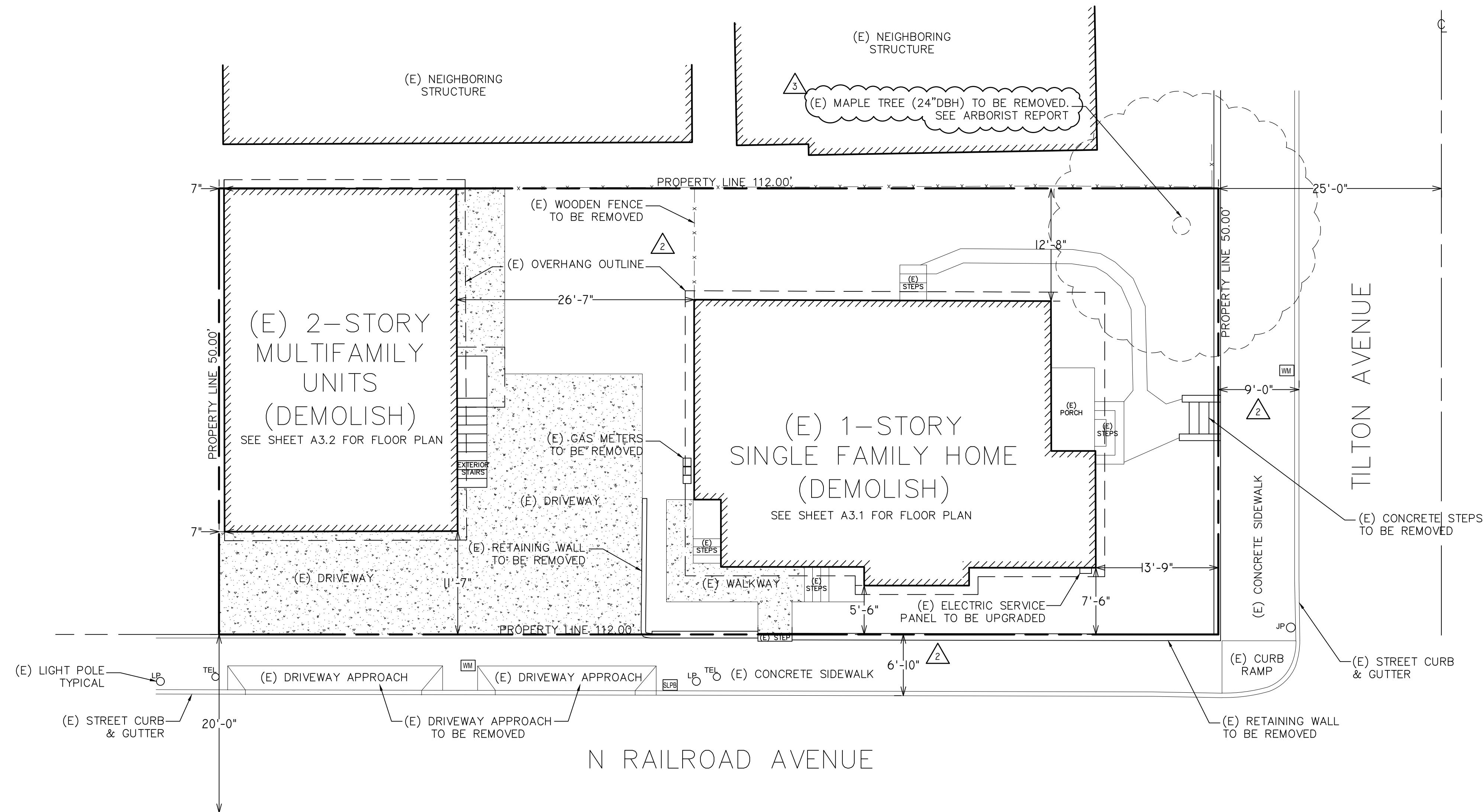
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PROPOSED SITE PLAN

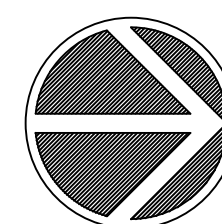
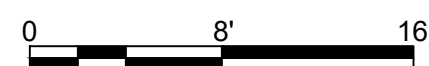
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NOTE: ALL EXISTING STRUCTURES, INCLUDING EXISTING HOUSE AND GARAGE, TO BE DEMOLISHED UNDER SEPARATE PERMITS.

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



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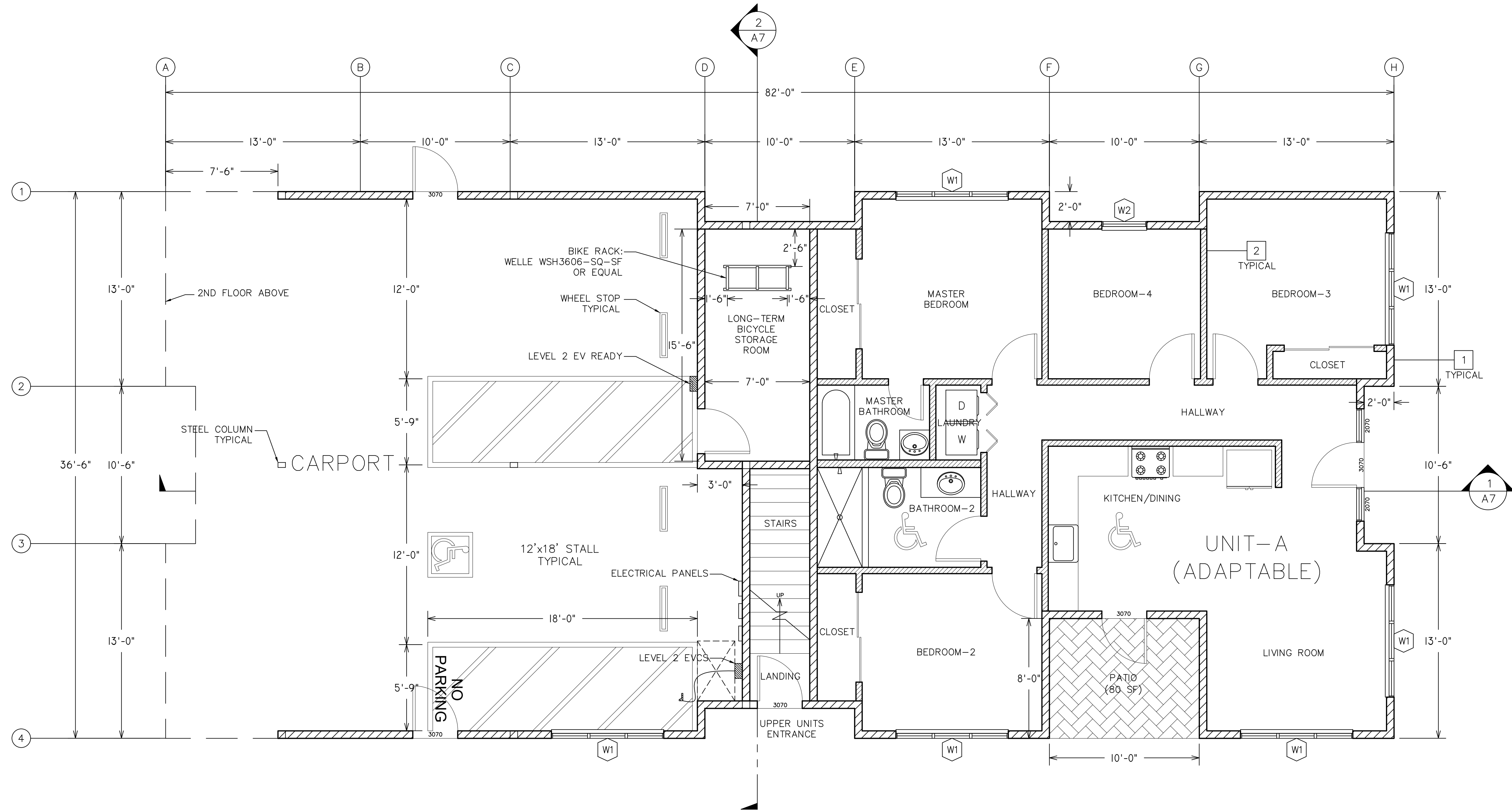
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EXISTING SITE PLAN

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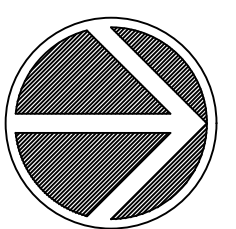


NOTE:
SEE WINDOW SCHEDULE SHEET A14.

WALL SCHEDULE

LEGEND	DESCRIPTION
1	NEW EXTERIOR WALL: 2X WOOD STUDS WITH GYPSUM WALLBOARD INTERIOR SIDE & WOOD SIDING EXTERIOR SIDE
2	NEW INTERIOR WALL: 2X WOOD STUDS WITH GYPSUM WALLBOARD BOTH SIDES

PROPOSED GROUND FLOOR PLAN
SCALE: 1/4" = 1'-0"

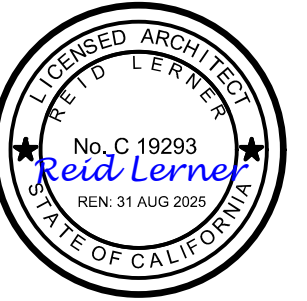


TILTON APARTMENTS
NEW MULTI-FAMILY APARTMENTS
328 TILTON AVENUE
SAN MATEO, CA 94401

PROPOSED GROUND
FLOOR PLAN

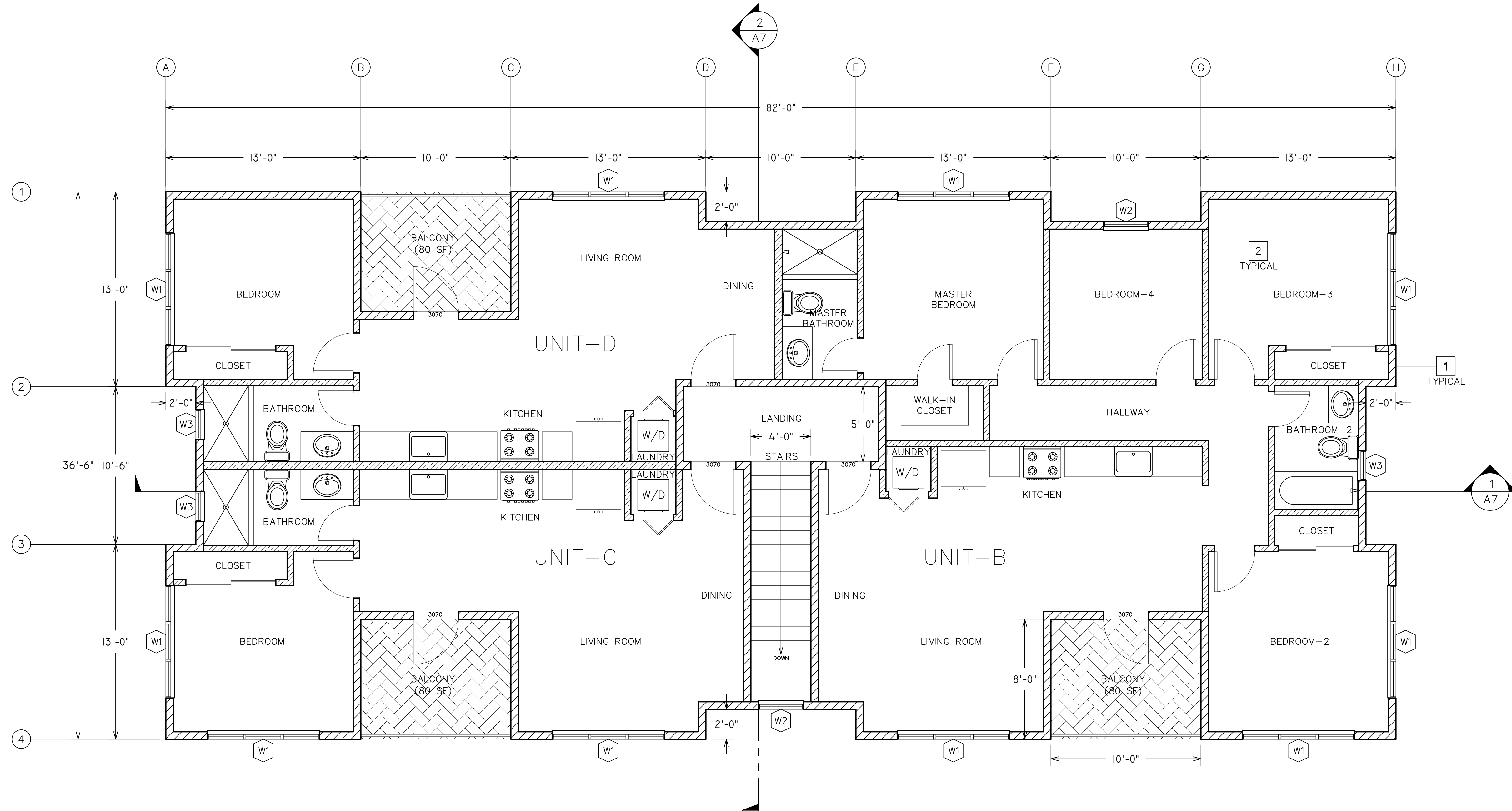
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A2



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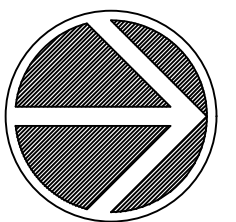
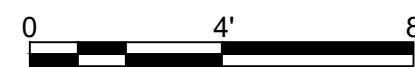
NOTE:
SEE WINDOW SCHEDULE SHEET A14.

WALL SCHEDULE

LEGEND	DESCRIPTION
1	NEW EXTERIOR WALL: 2X WOOD STUD WITH GYPSUM WALLBOARD INTERIOR SIDE & WOOD SIDING EXTERIOR SIDE
2	NEW INTERIOR WALL: 2X WOOD STUD WITH GYPSUM WALLBOARD BOTH SIDES

PROPOSED 2ND FLOOR PLAN

SCALE: 1/4" = 1'-0"



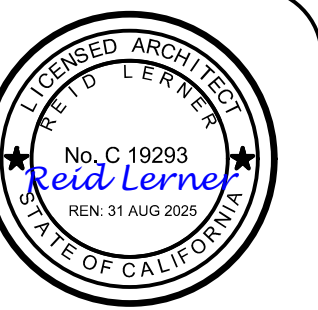
TILTON APARTMENTS
NEW MULTI-FAMILY APARTMENTS
328 TILTON AVENUE
SAN MATEO, CA 94401

PROPOSED 2ND
FLOOR PLAN

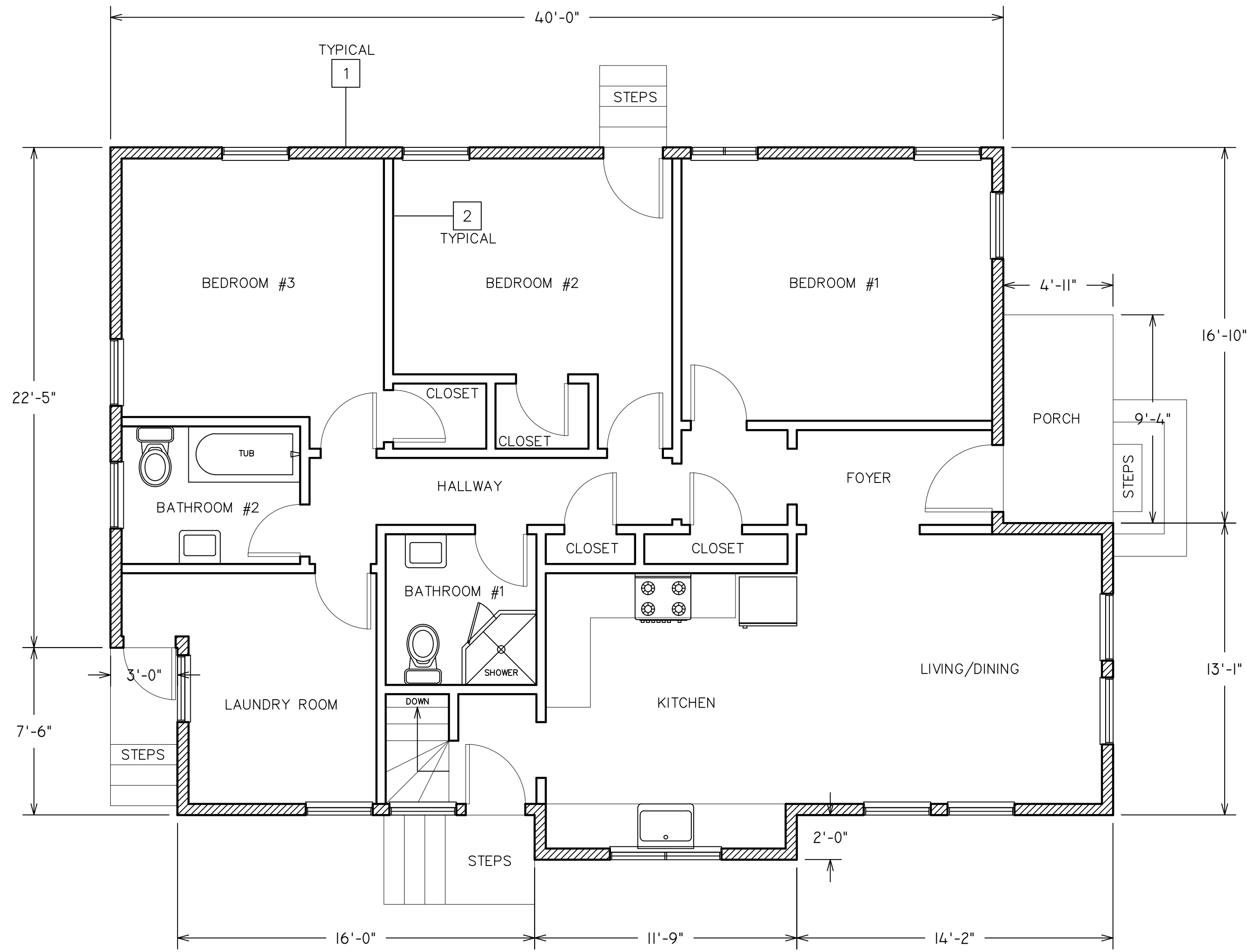
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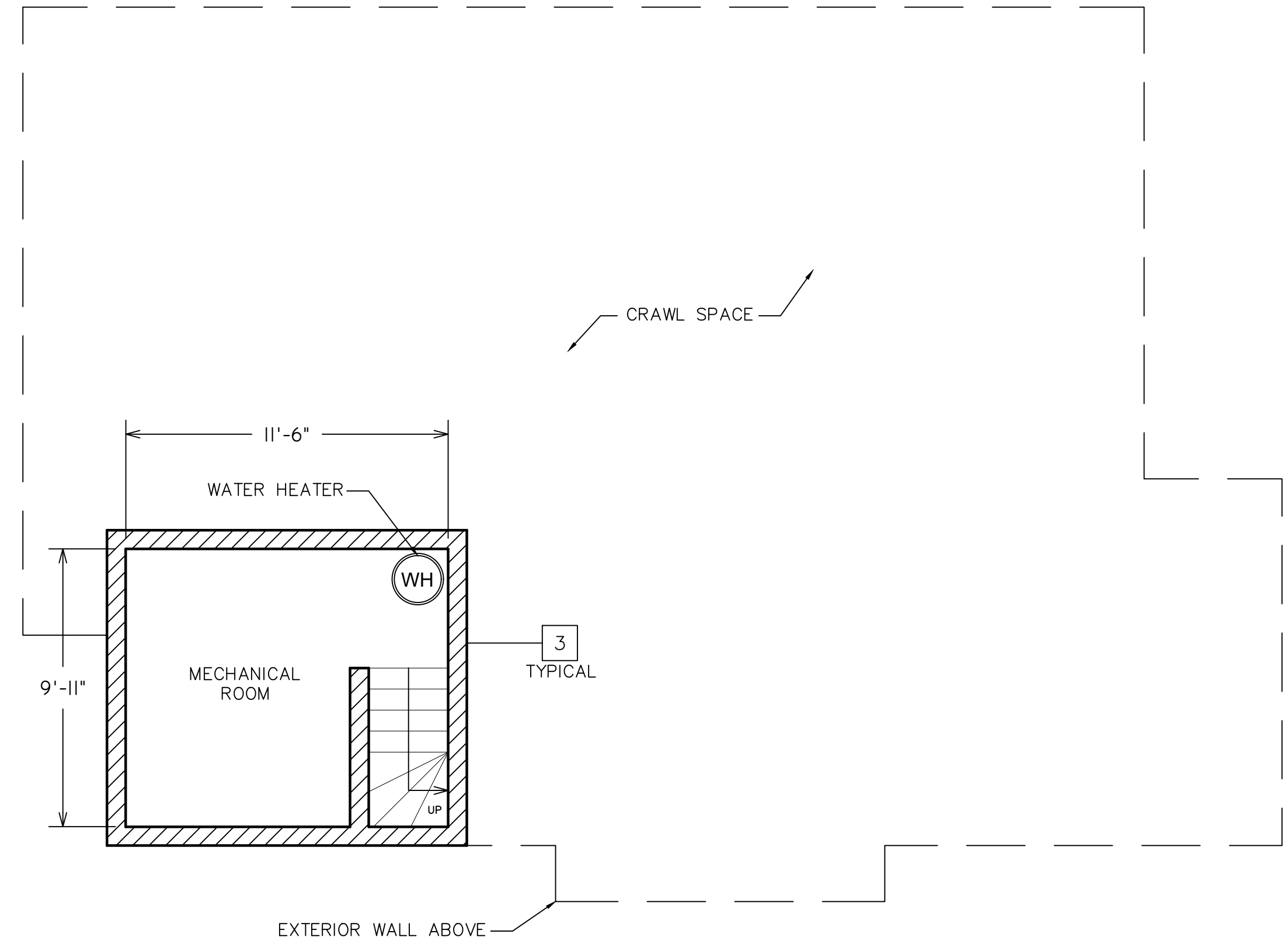
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EXISTING GROUND FLOOR PLAN
SCALE: 1/4" = 1'-0"

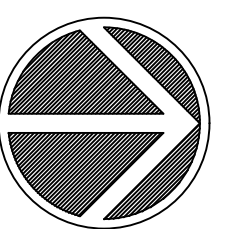
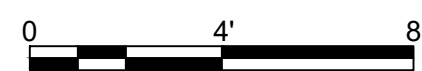


EXISTING BASEMENT FLOOR PLAN
SCALE: 1/4" = 1'-0"

WALL SCHEDULE

KEY/LEGEND	DESCRIPTION
1	EXISTING EXTERIOR WALL: 2X WOOD STUDS WITH GYPSUM WALLBOARD INTERIOR SIDE & WOOD SIDING EXTERIOR SIDE
2	EXISTING INTERIOR WALL: 2X WOOD STUDS WITH GYPSUM WALLBOARD BOTH SIDES
3	EXISTING BASEMENT WALL: 8" THICK CMU WALL

EXISTING FLOOR PLAN @ SINGLE FAMILY HOME
SCALE: 1/4" = 1'-0"



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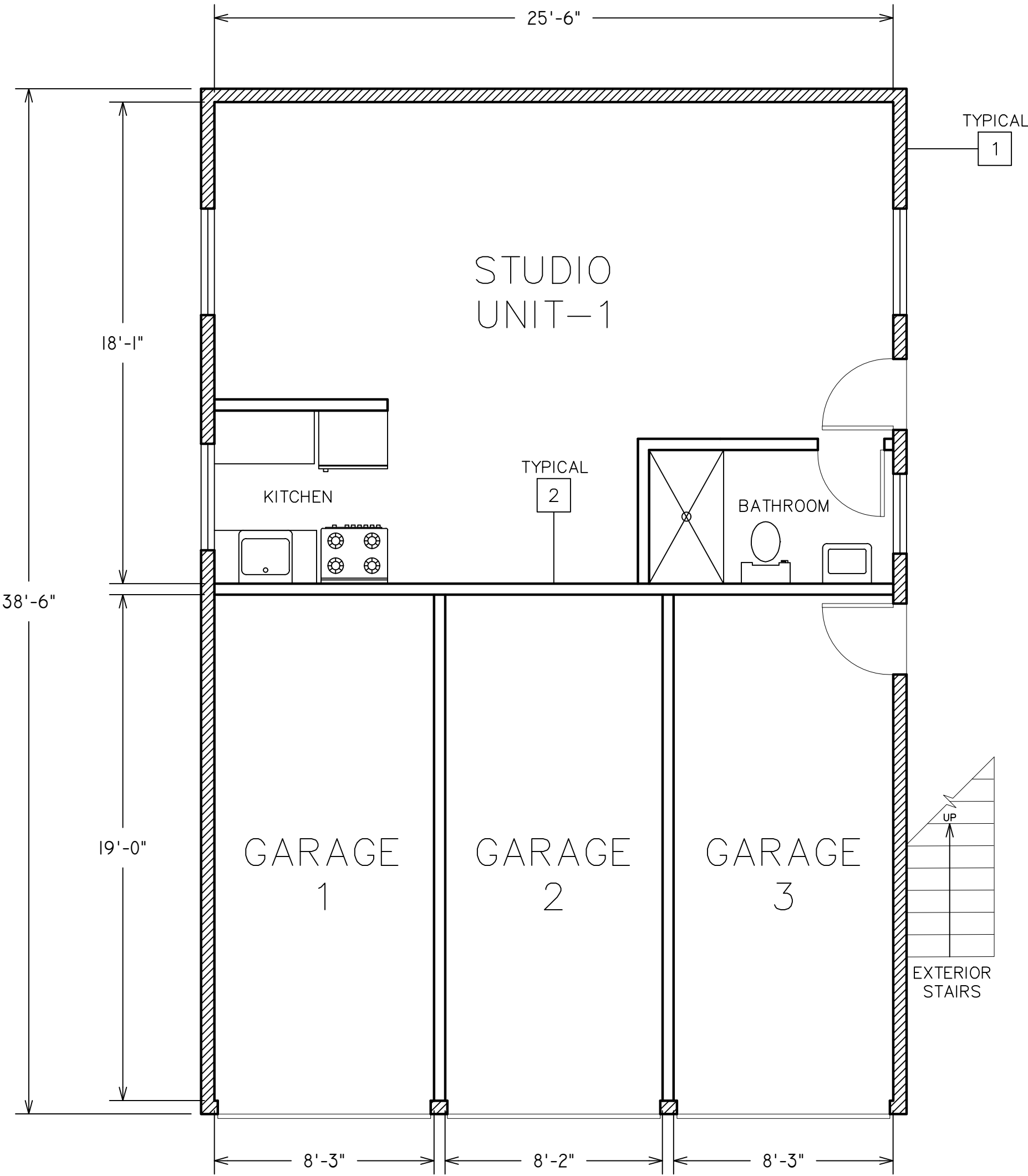
TILTON APARTMENTS
NEW MULTI-FAMILY APARTMENTS
328 TILTON AVENUE
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EXISTING FLOOR PLAN
@ SINGLE FAMILY HOME

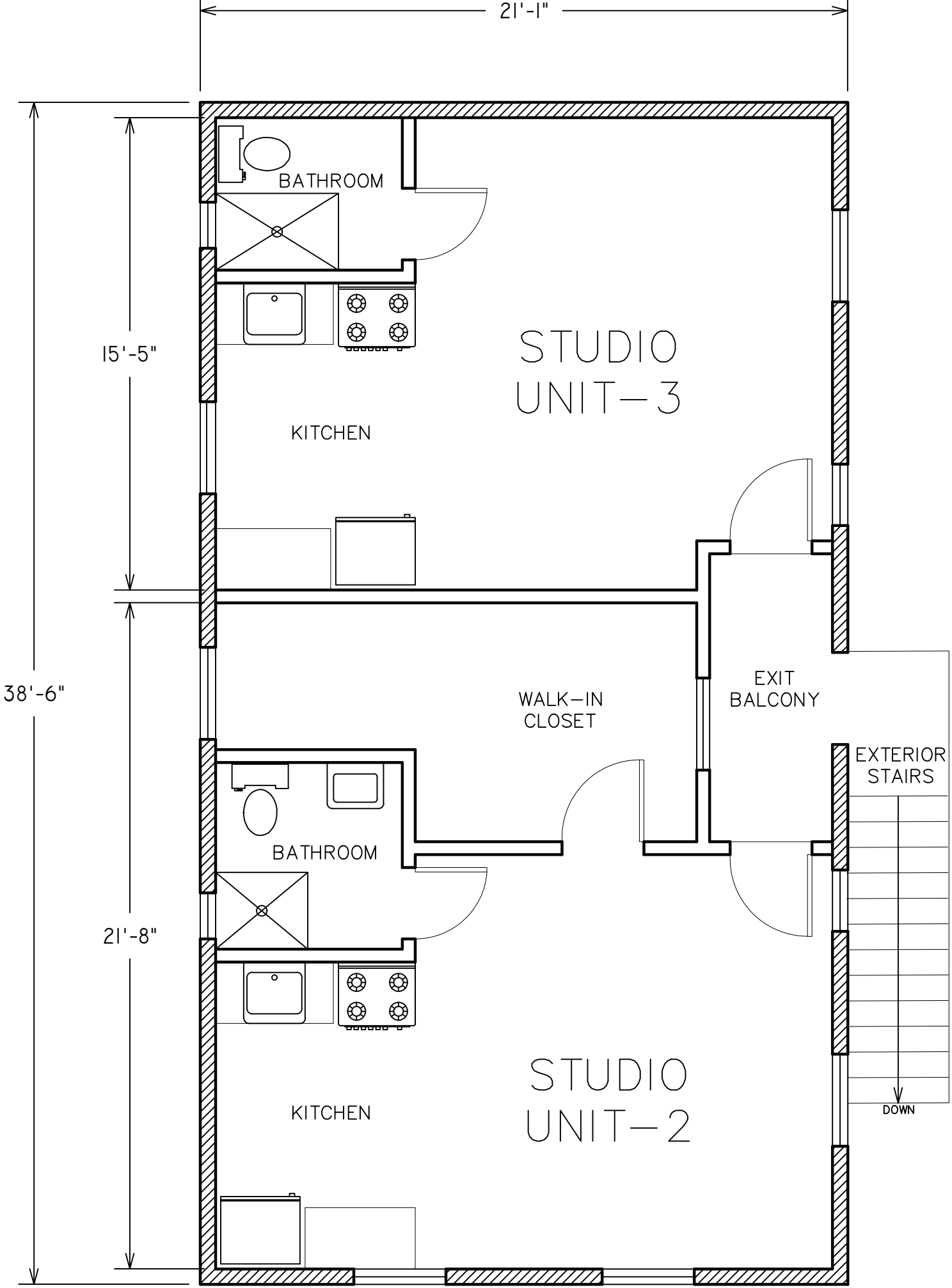
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WALL SCHEDULE	
KEY/LEGEND	DESCRIPTION
1	EXISTING EXTERIOR WALL: 2X WOOD STUDS WITH GYPSUM WALLBOARD INTERIOR SIDE & STUCCO EXTERIOR SIDE
2	EXISTING INTERIOR WALL: 2X WOOD STUDS WITH GYPSUM WALLBOARD BOTH SIDES

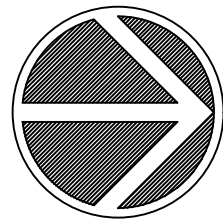
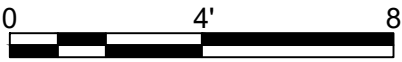


EXISTING GROUND FLOOR PLAN
SCALE: 1/4" = 1'-0"



EXISTING 2ND FLOOR PLAN
SCALE: 1/4" = 1'-0"

EXISTING FLOOR PLAN @ GARAGE & MULTIFAMILY UNITS
SCALE: 1/4" = 1'-0"



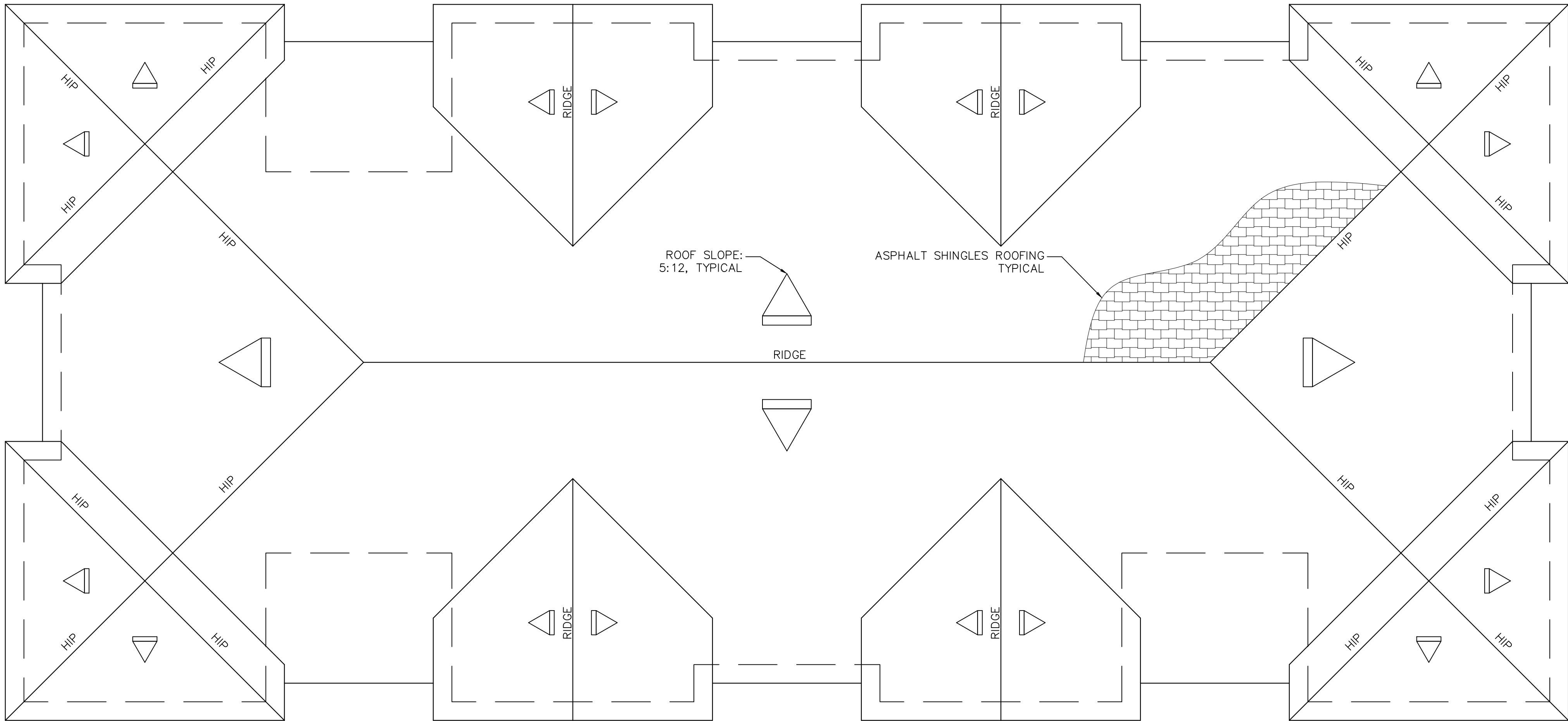
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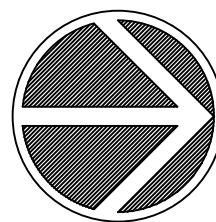
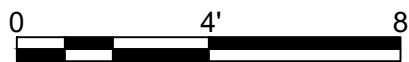
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EXISTING FLOOR PLAN
@ GARAGE &
MULTIFAMILY UNITS

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PROPOSED ROOF PLAN
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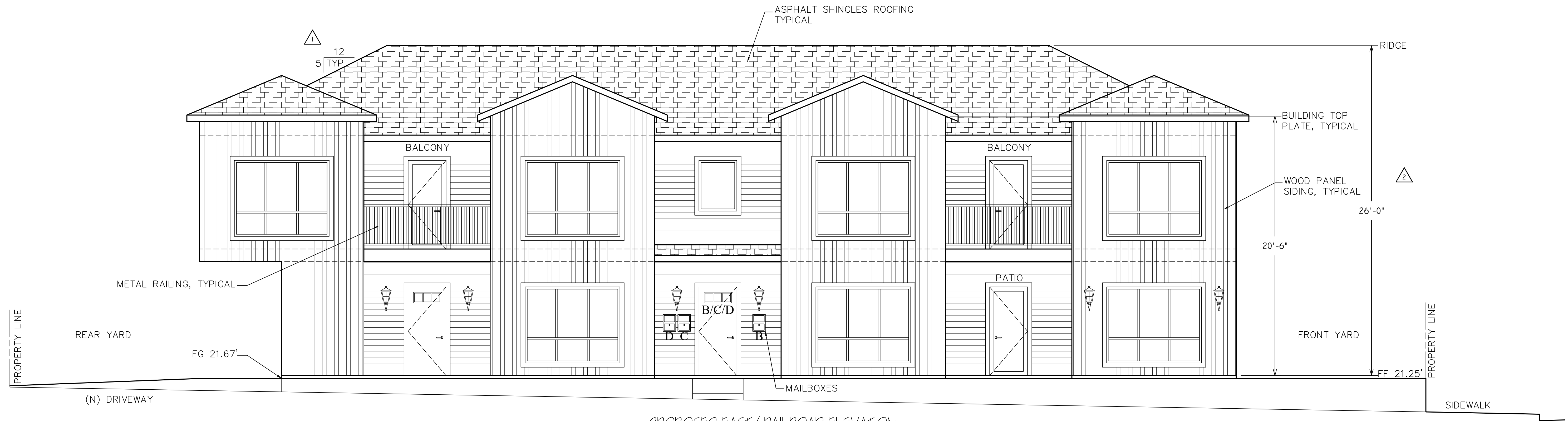


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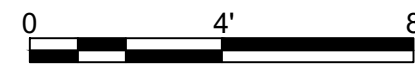
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PROPOSED ROOF PLAN

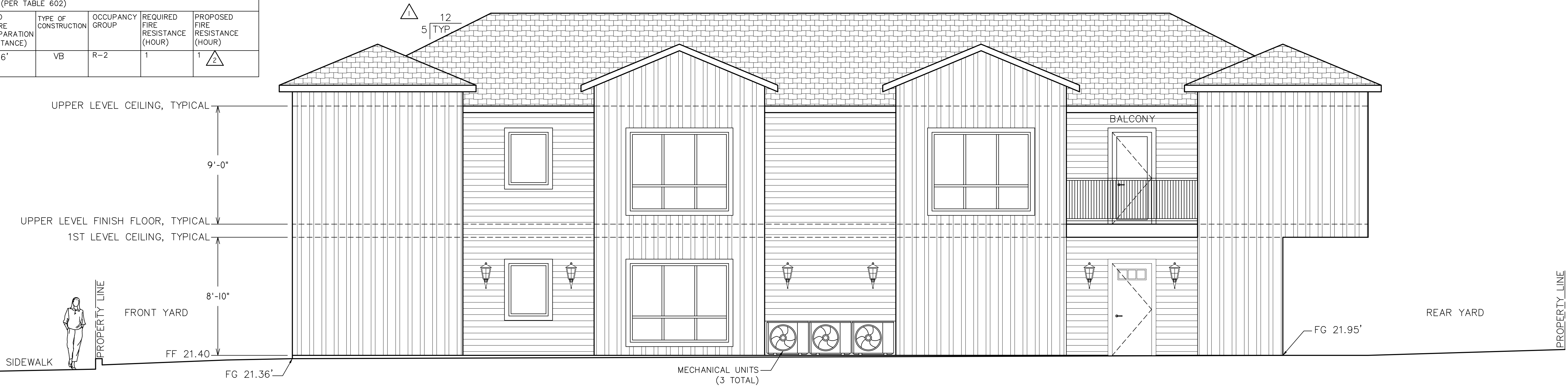
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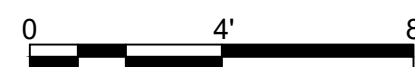
PROPOSED EAST/ RAILROAD ELEVATION
SCALE: 1/4" = 1'-0"



WEST ELEVATION				
AREA OF EXTERIOR WALL OPENINGS BASED ON FSD (PER TABLE 705.8)				
STORY	FSD (FIRE SEPARATION DISTANCE)	DEGREE OF PROTECTION	ALLOWABLE AREA (SQ. FT.)	PROPOSED OPENING AREA (PER STORY)
1	6'	UP, S	25%	17.8% (146/820)
2	6'	UP, S	25%	23.4% (187/800)
FIRE RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS (PER TABLE 602)				
FSD (FIRE SEPARATION DISTANCE)	TYPE OF CONSTRUCTION	OCCUPANCY GROUP	REQUIRED FIRE RESISTANCE (HOUR)	PROPOSED FIRE RESISTANCE (HOUR)
6'	VB	R-2	1	1



PROPOSED WEST ELEVATION
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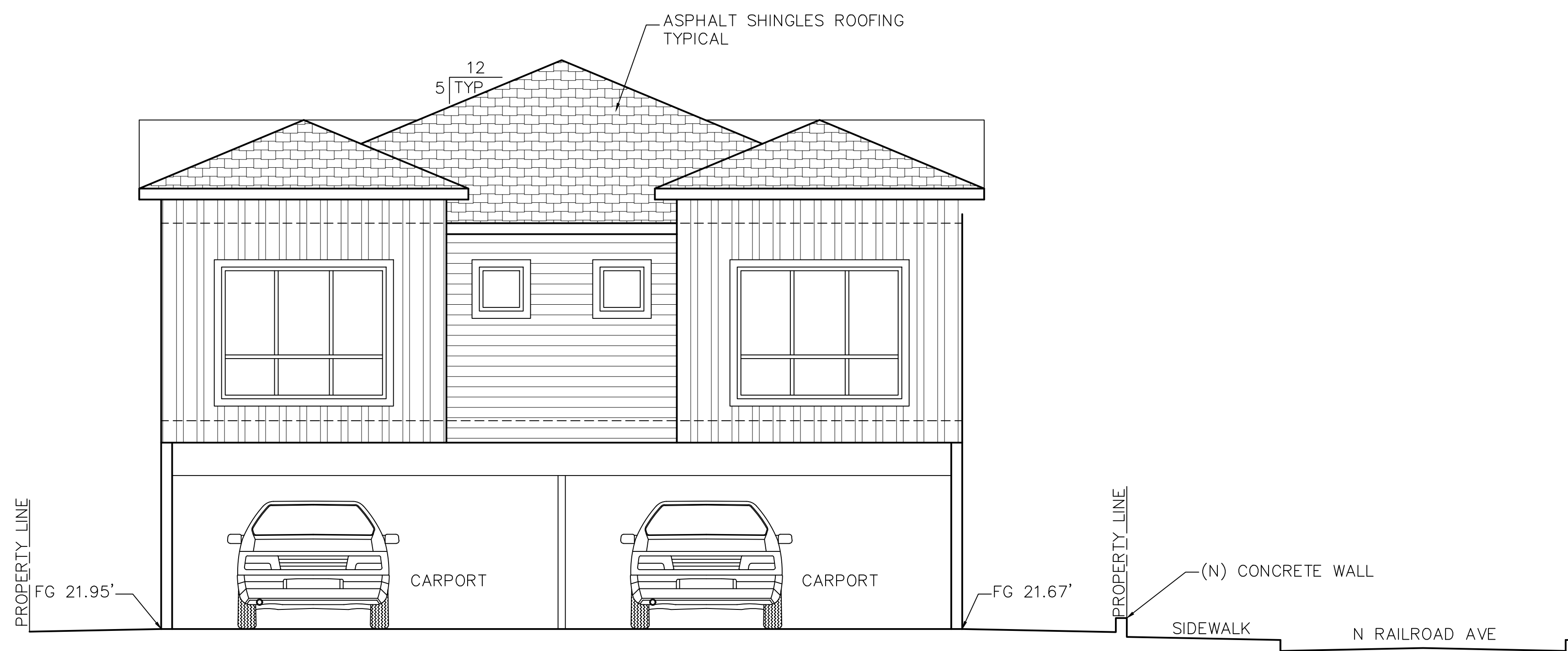
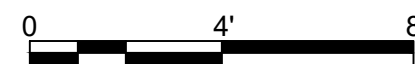
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PROPOSED ELEVATIONS

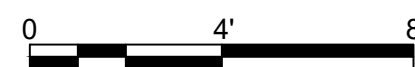
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For PLANNING REVIEW
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PROPOSED NORTH/ TILTON AVE ELEVATION
SCALE: 1/4" = 1'-0"



PROPOSED SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



NO.	REVISION	DATE	BY
1	PLANCHICK COMMENTS	03-28-24	
2	PLANCHICK COMMENTS	06-28-24	
3	PLANCHICK COMMENTS	11-22-24	
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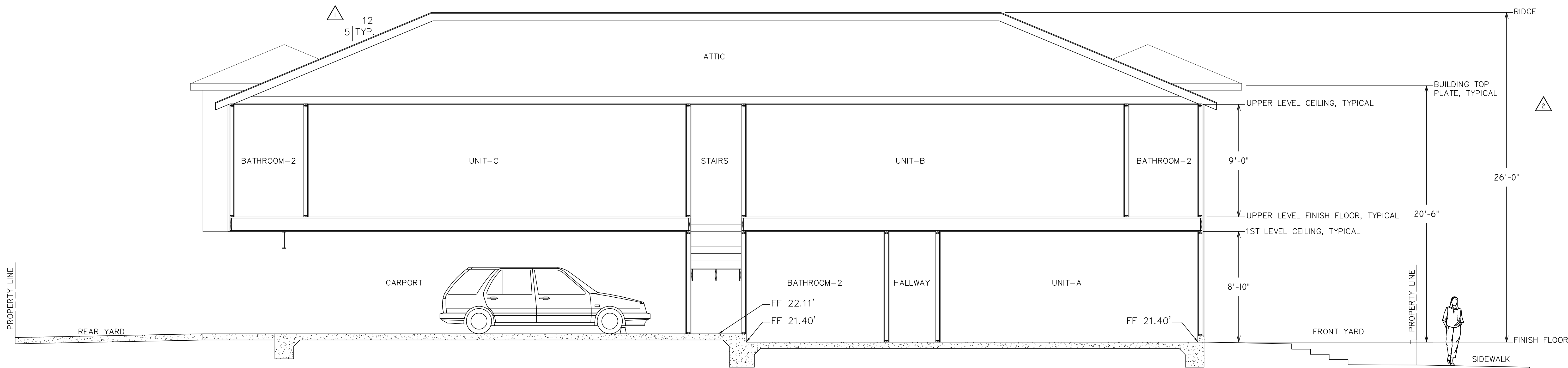


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GILROY, CA 95020

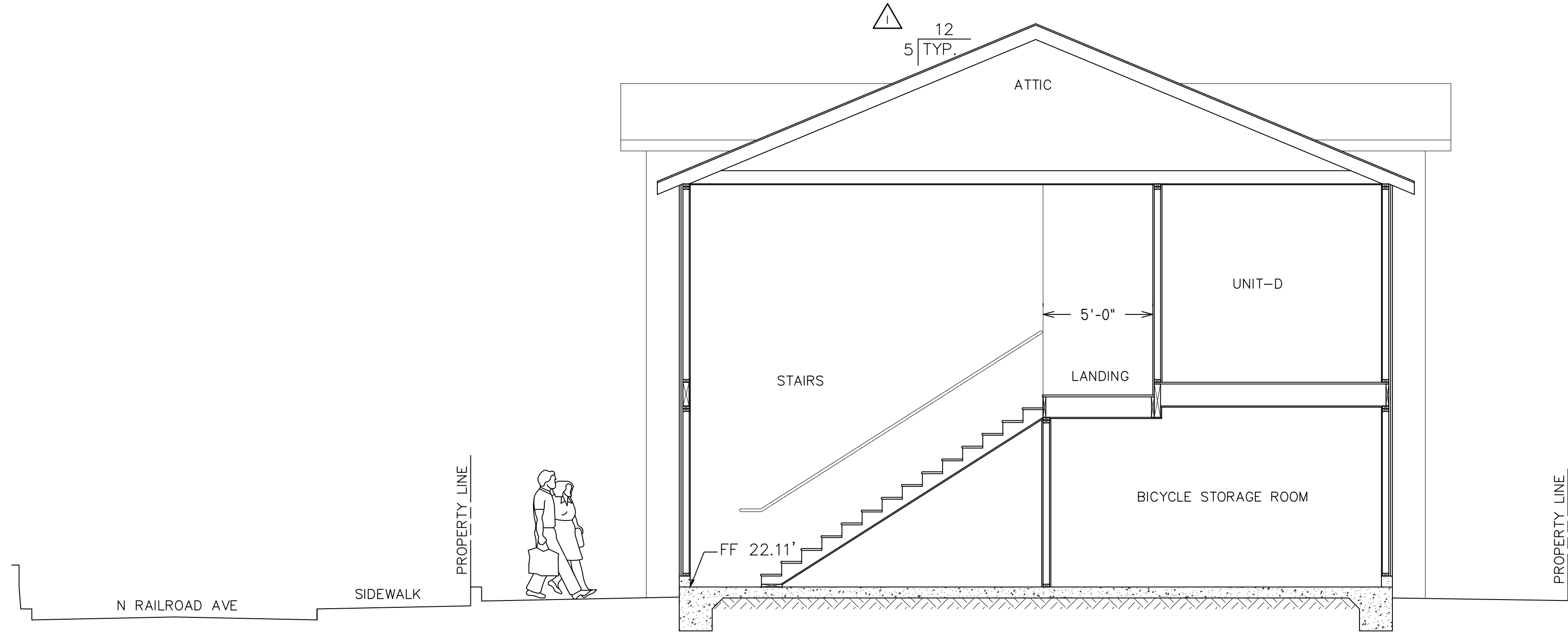
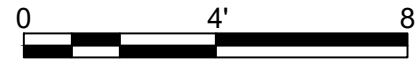
TILTON APARTMENTS
NEW MULTI-FAMILY APARTMENTS
328 TILTON AVENUE
SAN MATEO, CA 94401

PROPOSED ELEVATIONS

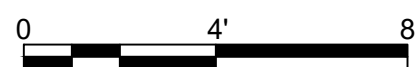
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For	PLANNING REVIEW
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BUILDING SECTION-1
SCALE: 1/4" = 1'-0"



BUILDING SECTION-2
SCALE: 1/4" = 1'-0"



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REGISTERED ARCHITECT
No. C 19293
Reid Lerner
REN 31 AUG 2025
STATE OF CALIFORNIA

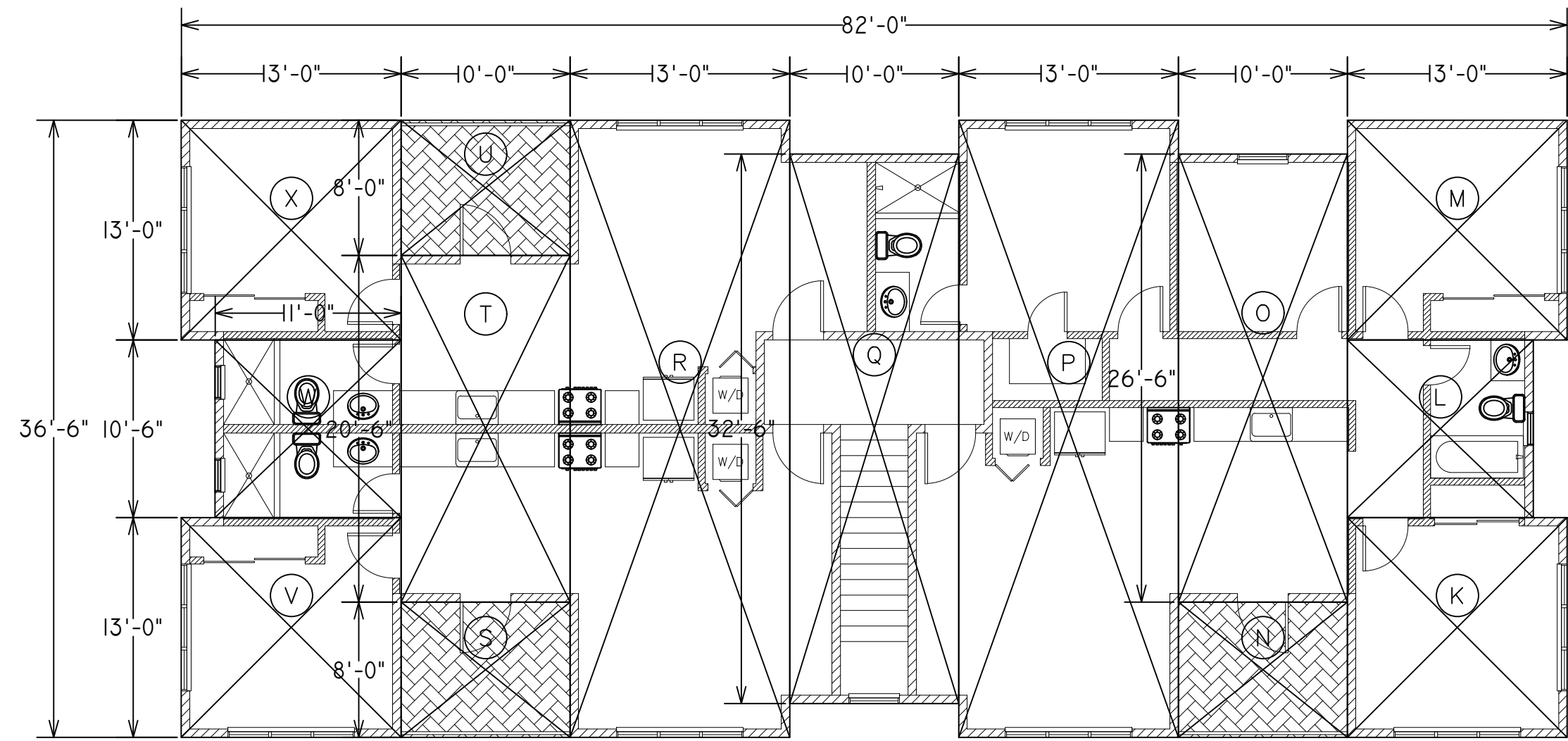
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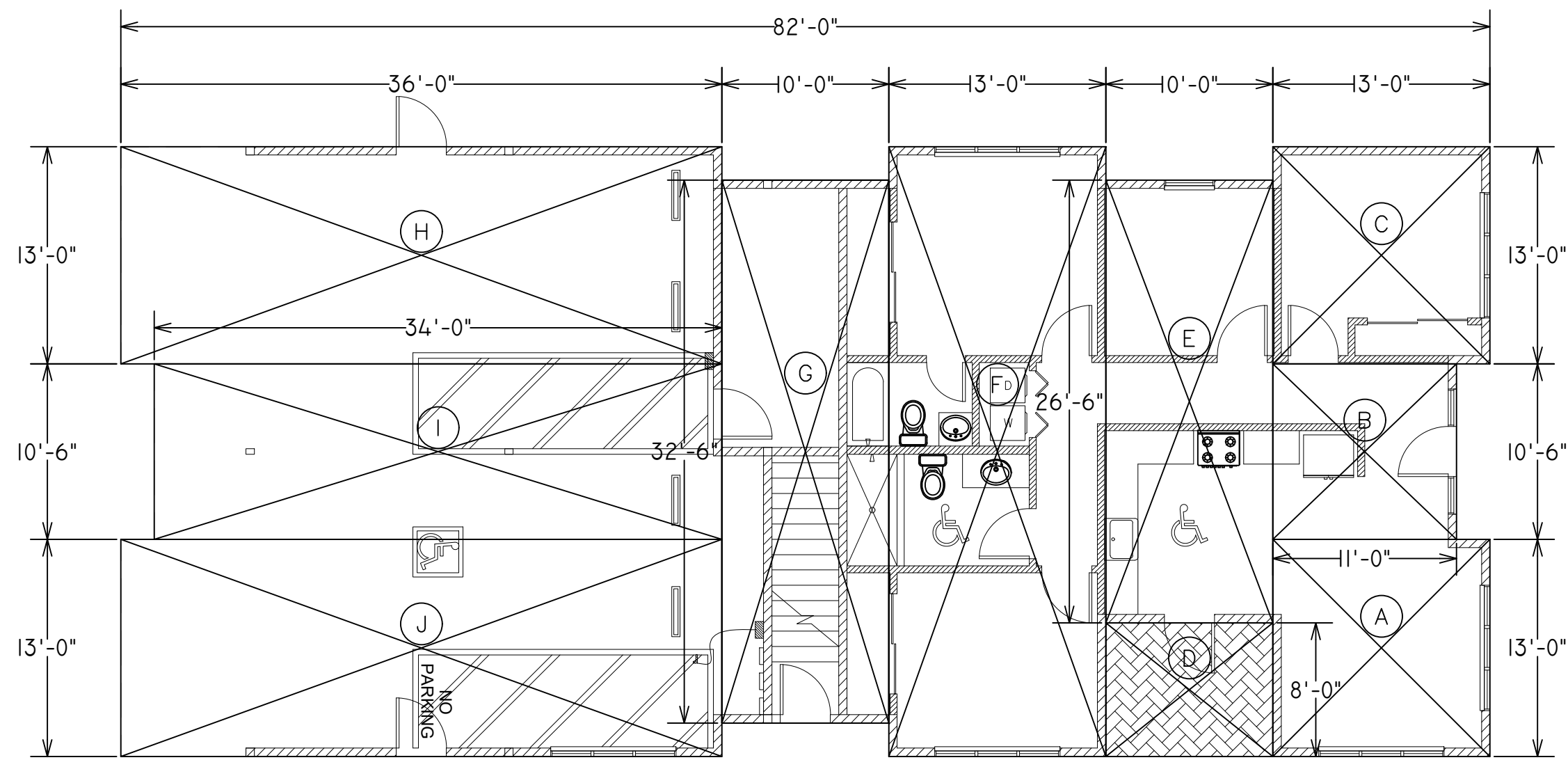
BUILDING SECTIONS

Drawn	MM
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Date	10/17/23
Scale	AS NOTED
For	PLANNING REVIEW
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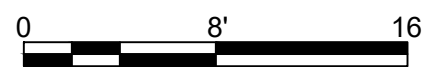
2ND FLOOR



GROUND FLOOR

FLOOR AREA CALCULATION DIAGRAM

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



FLOOR	SECTION	DIMENSION	AREA (SQUARE FEET)
1	A	13'-0" X 13'-0"	169
	B	11'-0" X 10'-6"	115.5
	C	13'-0" X 13'-0"	169
	D	10'-0" X 8'-0"	80
	E	26'-6" X 10'-0"	265
	F	36'-6" X 13'-0"	474.5
	G	32'-6" X 10'-0"	325
	H	36'-0" X 13'-0"	468
	I	34'-0" X 10'-6"	357
	J	36'-0" X 13'-0"	468
2	K	13'-0" X 13'-0"	169
	L	11'-0" X 10'-6"	115.5
	M	13'-0" X 13'-0"	169
	N	10'-0" X 8'-0"	80
	O	26'-6" X 10'-0"	265
	P	36'-6" X 13'-0"	474.5
	Q	32'-6" X 10'-0"	325
	R	36'-6" X 13'-0"	474.5
	S	10'-0" X 8'-0"	80
	T	20'-6" X 10'-0"	205
	U	10'-0" X 8'-0"	80
	V	13'-0" X 13'-0"	169
	W	11'-0" X 10'-6"	115.5
	X	13'-0" X 13'-0"	169
TOTAL			5,782

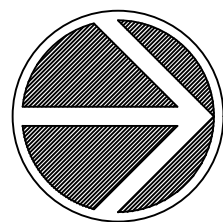
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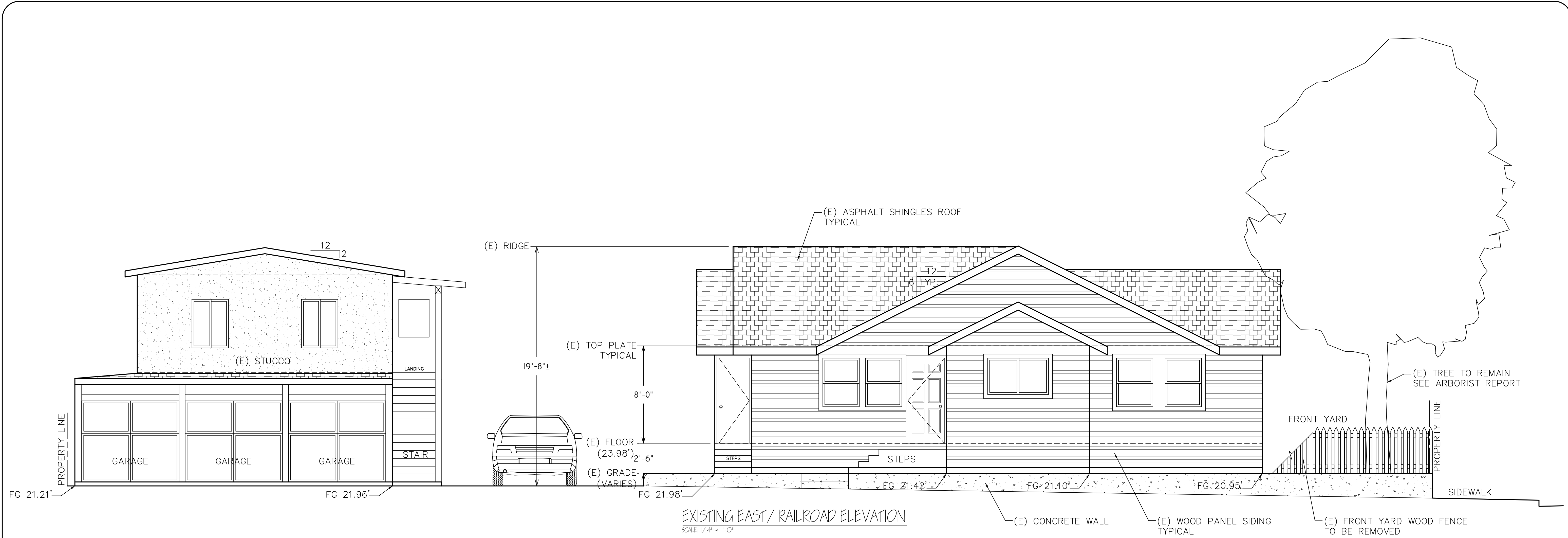
REID LERNER ARCHITECTS
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GILROY, CA 95020

TILTON APARTMENTS
NEW MULTI-FAMILY APARTMENTS
328 TILTON AVENUE
SAN MATEO, CA 94401

FLOOR AREA
CALCULATION DIAGRAM

Drawn	MM
Checked	RL
Date	10/17/23
Scale	AS NOTED
For	PLANNING REVIEW
Sheet	

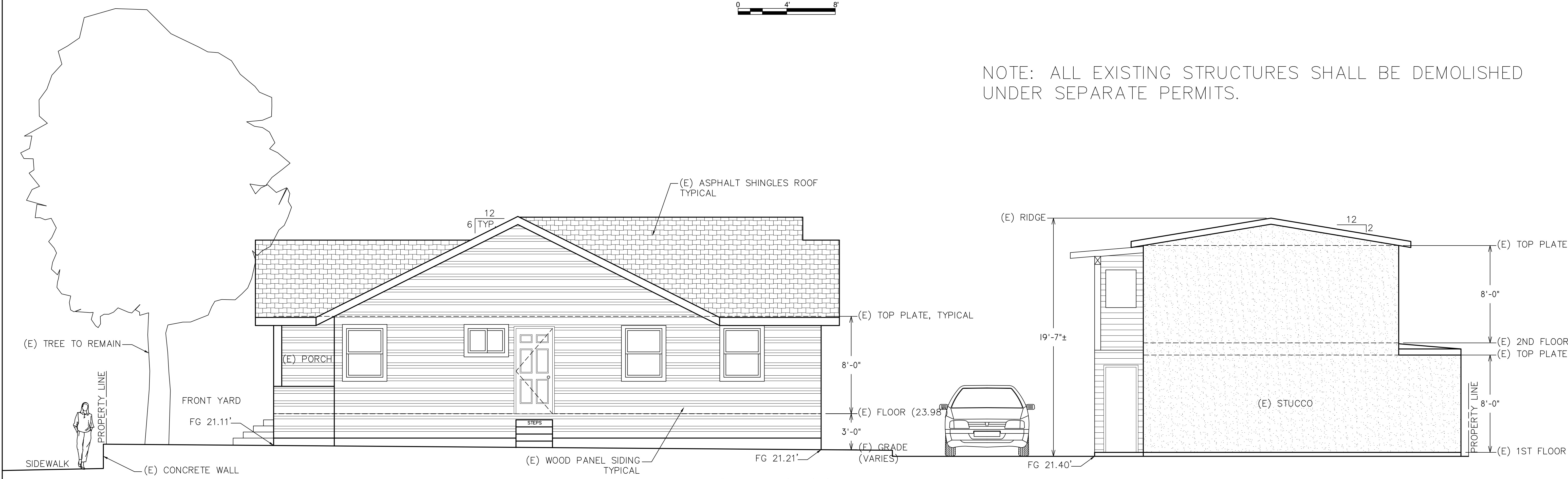




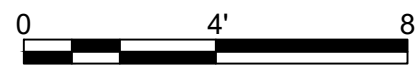
EXISTING EAST/ RAILROAD ELEVATION
SCALE: 1/4" = 1'-0"



NOTE: ALL EXISTING STRUCTURES SHALL BE DEMOLISHED UNDER SEPARATE PERMITS.



EXISTING WEST ELEVATION
SCALE: 1/4" = 1'-0"



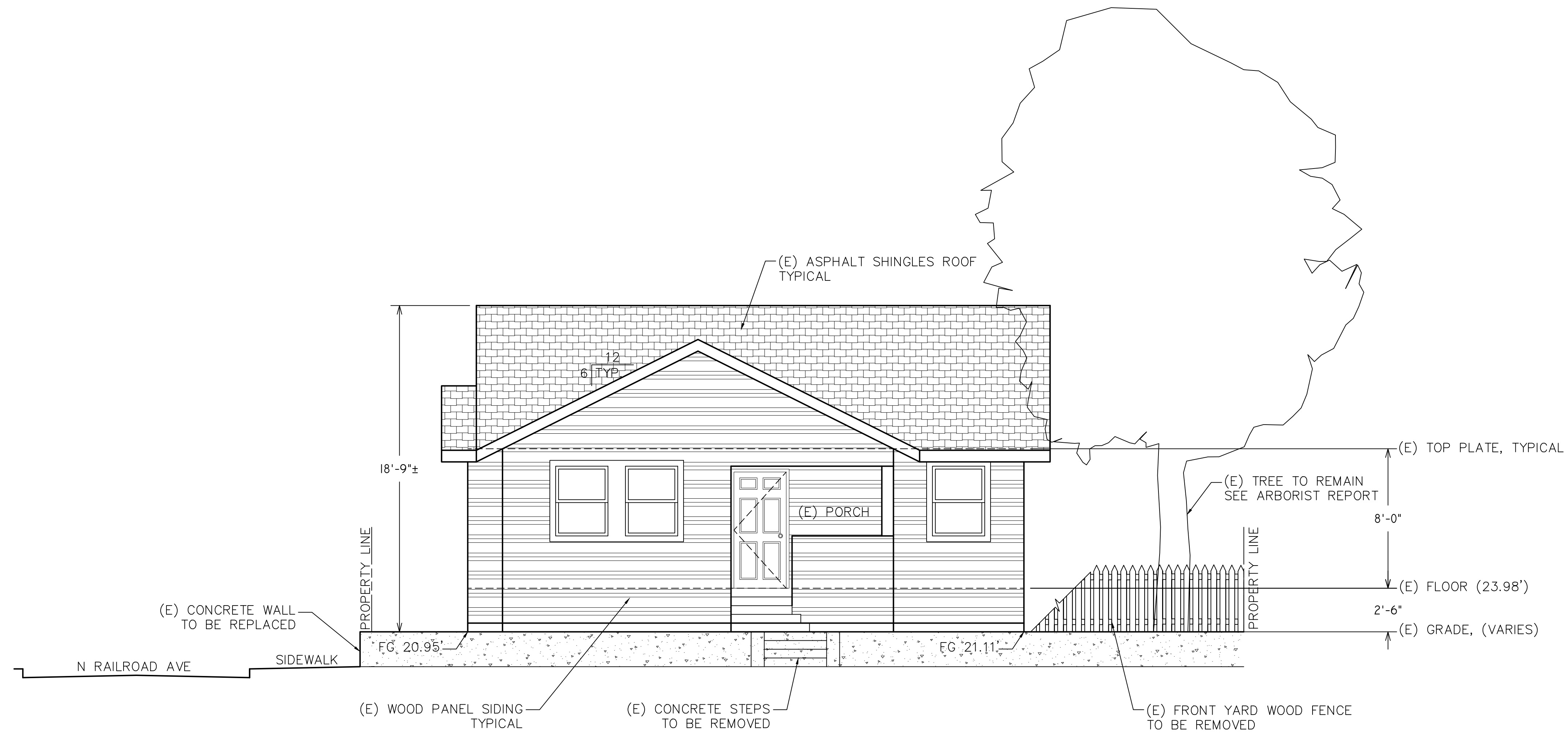
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SAN MATEO, CA 94401

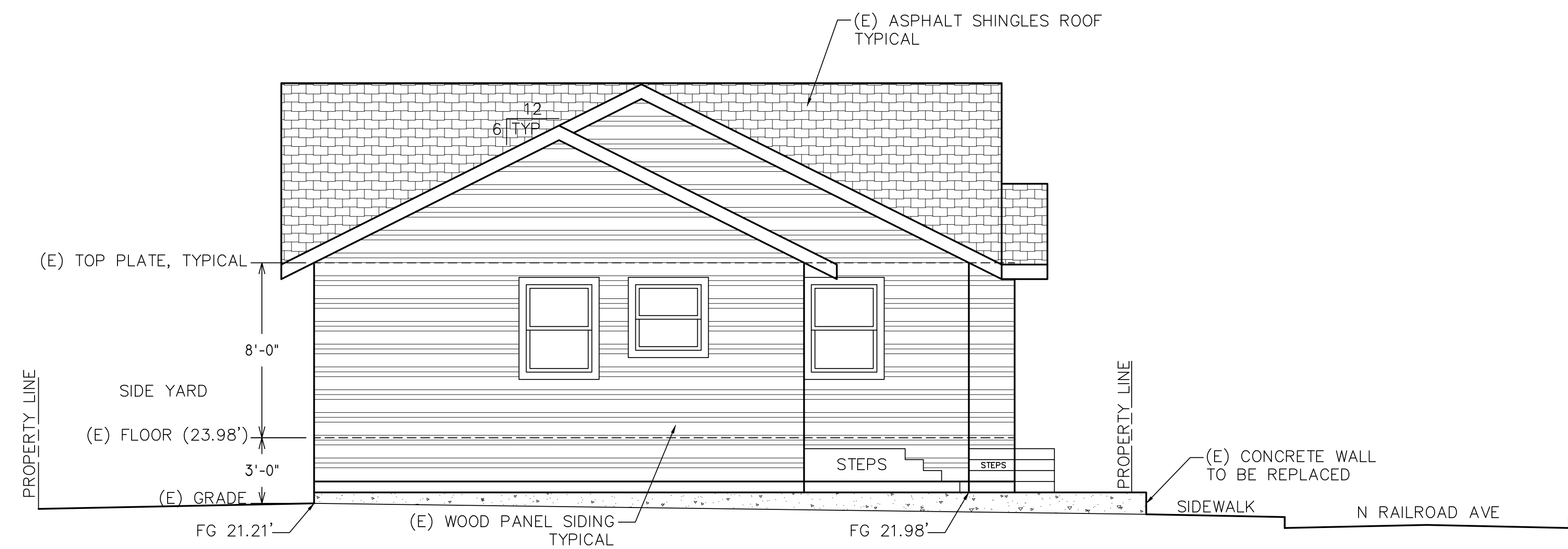
EXISTING ELEVATIONS

Drawn	MM
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Date	10/17/23
Scale	AS NOTED
For	PLANNING REVIEW
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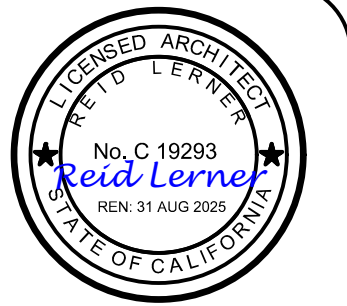
EXISTING NORTH/ TILTON AVE ELEVATION
SCALE: 1/4" = 1'-0"

NOTE: ALL EXISTING STRUCTURES SHALL BE DEMOLISHED UNDER SEPARATE PERMITS.



EXISTING SOUTH ELEVATION
SCALE: 1/4" = 1'-0"

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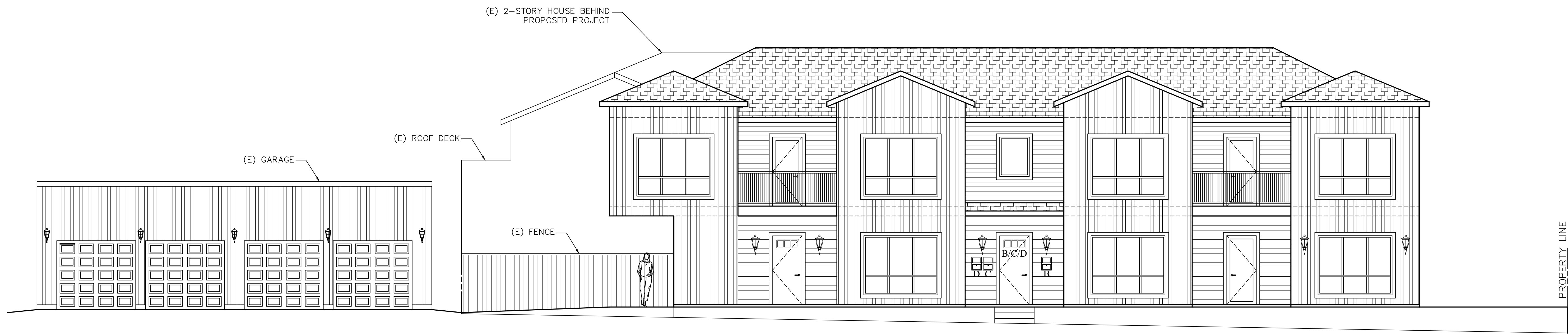
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TILTON APARTMENTS
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SAN MATEO, CA 94401

EXISTING ELEVATIONS

Drawn MM
Checked RL
Date 10/17/23
Scale AS NOTED
For PLANNING REVIEW
Sheet

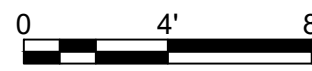
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STREETSCAPE ELEVATION @ RAILROAD
SCALE: 3/16" = 1'-0"



PROPOSED WEST ELEVATION
SCALE: 3/16" = 1'-0"



NO.	REVISION	DATE	BY
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TILTON APARTMENTS
NEW MULTI-FAMILY APARTMENTS
328 TILTON AVENUE
SAN MATEO, CA 94401

PROPOSED ELEVATIONS

DrawnMM


CheckedRL

Date10/17/23

ScaleAS NOTED

ForPLANNING REVIEW

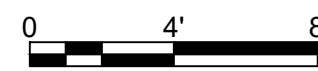
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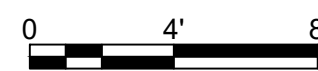
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STREETSCAPE ELEVATION @ TILTON AVE
SCALE: 3/16" = 1'-0"



PROPOSED SOUTH ELEVATION
SCALE: 3/16" = 1'-0"



NO.	REVISION	DATE	BY
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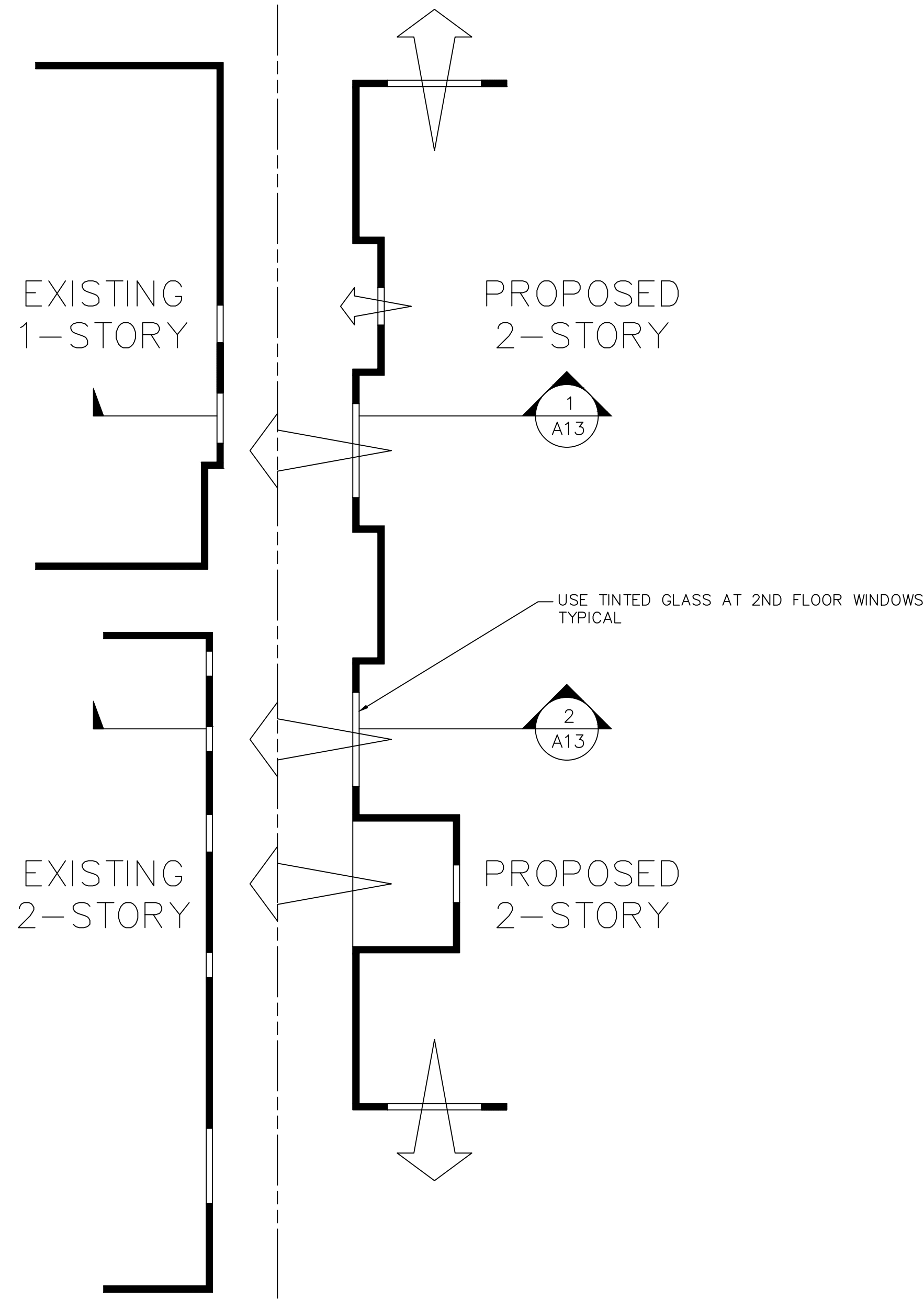


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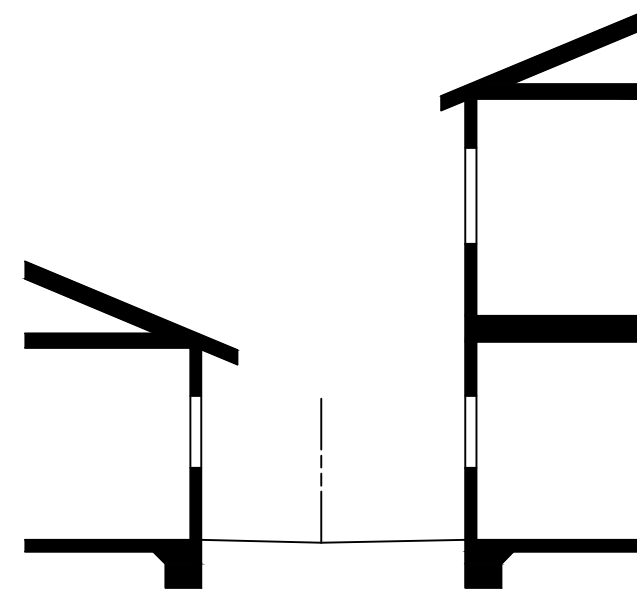
TILTON APARTMENTS
NEW MULTI-FAMILY APARTMENTS
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SAN MATEO, CA 94401

PROPOSED ELEVATIONS

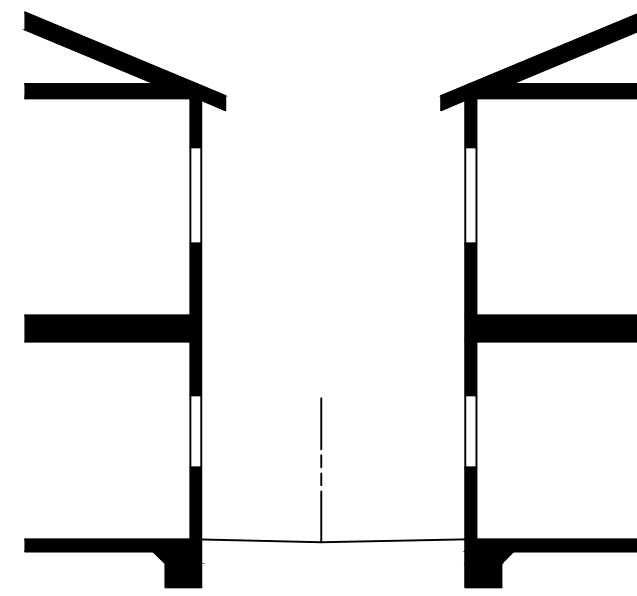
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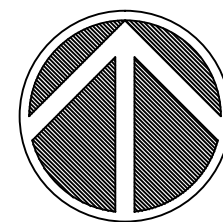
PLAN VIEW
SCALE: 1/8" = 1'-0"



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



SECTION-2
SCALE: 1/8" = 1'-0"



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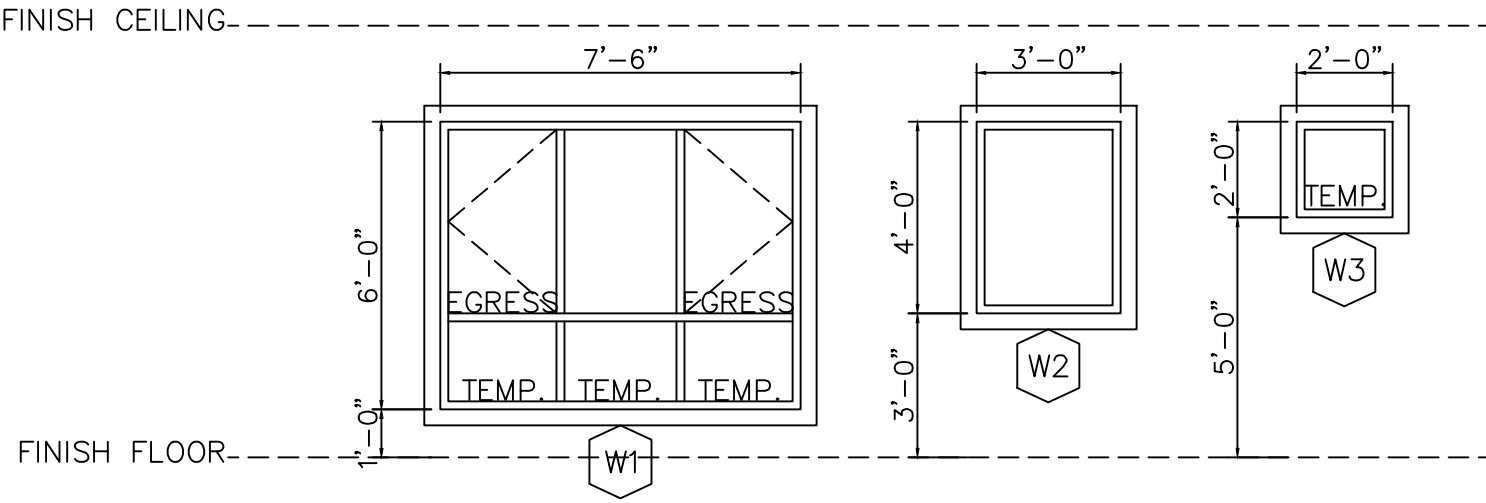
TILTON APARTMENTS
NEW MULTI-FAMILY APARTMENTS
328 TILTON AVENUE
SAN MATEO, CA 94401

WINDOW LOCATION
& PRIVACY DIAGRAM

Drawn	MM
Checked	RL
Date	10/17/23
Scale	AS NOTED
For	PLANNING REVIEW
Sheet	

WINDOW SCHEDULE									
WINDOW TAG	WIDTH	HEIGHT	OPERATION	GLASS	FRAME MATERIAL	EGRESS	TEMPERED GLASS	LOCATION	NOTES
W1	7'-6"	6'-0"	CASEMENT	LOW-E CLEAR GLASS	ALUMINUM	YES	YES	BEDROOM LIVING ROOM	
W2	3'-0"	4'-0"	CASEMENT	LOW-E CLEAR GLASS	ALUMINUM	YES	NO	BEDROOM	
W3	2'-0"	2'-0"	CASEMENT	LOW-E CLEAR GLASS	ALUMINUM	NO	YES	BATHROOM	

WINDOW SCHEDULE NOTES:
1) CONTRACTOR SHALL VERIFY ALL WINDOW SIZES, ROUGH OPENING, AND QUANTITY IN FIELD PRIOR TO ORDERING.
2) VERIFY ALL WINDOWS, FRAMES, GLAZING, AND HARDWARE WITH OWNER.
3) WINDOW SUBMITTALS TO BE DIRECTED TO THE ARCHITECT OF RECORD FOR REVIEW.
4) EMERGENCY EGRESS FROM SLEEPING ROOMS TO COMPLY WITH FOLLOWING:
MINIMUM NET CLEAR OPENABLE DIMENSION OF 5.7 SF IN AREA (CBC 1031.3.1).
MINIMUM NET CLEAR OPENABLE DIMENSION OF 24 INCHES IN HEIGHT (CBC 1031.3.2).
MINIMUM NET CLEAR OPENABLE DIMENSION 20 INCHES IN WIDTH (CBC 1031.3.2).
BOTTOM OF THE CLEAR OPENING SHALL NOT BE GREATER THAN 44 INCHES MEASURED FROM THE FLOOR (CBC 1031.3.3).
5) WINDOWS MUST HAVE LABELS FOR "U-FACTOR" & "SHGC" PER ENERGY CODE.



WINDOWS ELEVATION (EXTERIOR)
SCALE: 1/4" = 1'-0"

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WINDOW SCHEDULE

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ARBORIST REPORT

TILTON APARTMENTS
328 TILTON AVENUE
SAN MATEO, CA
(PA-2023-071)

Submitted to:

Reid Lerner Architects
7680 Monterey Street #105
Gilroy, CA 95020

Prepared by:

David L. Babby
Registered Consulting Arborist® #399
Board-Certified Master Arborist® #WE-4001B

November 11, 2024

p.o. box 25295, san mateo, california 94402 ▪ email: arborresources@comcast.net
office: 650.654.3351 ▪ cell: 650.274.3656 ▪ licensed contractor #796763

David L. Babby, Registered Consulting Arborist® November 11, 2024

TABLE OF CONTENTS

SECTION	TITLE	PAGE
1.0	INTRODUCTION & ASSIGNMENT	1
2.0	OBSERVATIONS	2
3.0	IMPACT ANALYSIS	3
4.0	CONCLUSIONS	4
5.0	ASSUMPTIONS AND LIMITING CONDITIONS	5

EXHIBITS

EXHIBIT	TITLE
A	SITE MAP (one sheet)
B	PHOTOGRAPHS (three sheets)

David L. Babby, Registered Consulting Arborist® November 11, 2024

1.0 INTRODUCTION & ASSIGNMENT

A multi-family apartment building is being planned for construction at 328 Tilton Avenue, San Mateo (APN 032-323-010). The site occupies the south corner of Tilton Avenue and Railroad Avenue, and is currently occupied by two existing structures which are planned for demolition. As there is one heritage tree located on the property where construction activities¹ are proposed within 10 times its trunk diameter, I have been retained by the project architect, Reid Lerner Architects to evaluate the tree, review the proposed design, and prepare this *Arborist Report*. Specific tasks assigned to execute are as follows:

- Visit the site on 10/3/24 and 11/7/24 to identify the heritage tree, measure its trunk diameter at 54 inches above grade,² estimate its height and average canopy spread, evaluate its condition, and obtain photos.
- Review the project plan set, dated 6/25/24, prepared by Reid Lerner Architects.
- Provide conclusions as to the extent of impacts and its proposed disposition. Because I am recommending removal, this report is structured as such, and does not include any protection measures.
- Include a copy of the *Topographic Survey*, dated 5/15/23 and prepared by Zhen's Land Surveying Corp., to represent the tree and its approximate dripline (i.e. canopy spread); see Exhibit A.
- Prepare a written report presenting the above information, and submit via email as a PDF document.

For disclosure, I am an independent consulting arborist operating under the name of Arbor Resources, and neither my company or I will execute any tree work recommended in this report (additional disclosures are presented within Section 6.0).

¹ Section 13.40.030(g) defines construction activity as any work associated with or requiring a permit for any new building, building addition, building demolition, grading, excavation or paving. This includes necessary related activities which may or may not be shown on site plans, including, but not limited to the following: storing/staging of materials, site access, parking, placement of temporary structures, debris disposal, additional excavation and landscaping.
² Measurements align with the City's *Protected Trees Ordinance Administrative Guidelines*, dated 7/13/21.

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2.0 OBSERVATIONS

The subject tree is a large silver maple (*Acer saccharinum*) with a trunk diameter of 26.3 inches measured at 54 above grade. Based on this diameter, it is classified as a heritage tree pursuant to Section 13.40.030(k)(2) of the San Mateo Municipal Code (the threshold being ≥15 inches for all trees other than oaks).

The tree's location can be viewed on the site map in Exhibit A, and photographs are presented in Exhibit B. For directional references, consider project north being towards Tilton Avenue.

The maple is located in the front yard at the property's northwest corner. Its trunk is 15.5 feet northwest from the existing home, and is partly situated beneath high-voltage electrical wires (distribution wires). The subject lot is elevated above the adjacent sidewalk, and is bordered along the north (sidewalk) side by a 1.3-foot tall retaining wall 2 feet from the trunk's base. Ground beneath the canopy and within the property is flat, and contains dead lawn, barren ground, and a narrow concrete walkway 7 feet southwest of the trunk. The tree's rooting area is relatively confined, being entirely or highly concentrated in directions away from the wall.

The site appears high use, and immediate targets beneath and within striking distance of the tree include the following: existing home, sidewalk, street, vehicles and persons occupying the house and traveling along the street/sidewalk, and an adjacent utility pole and phone/cable wires. The high-voltage electrical wires above can also present a threat should branches not remain clear at all times.

The tree is an estimated 45 feet tall, and due to its location beneath high-voltage wires, its height has been regularly reduced, and will continue being so throughout its remaining lifespan. This specific pruning practice is particularly an issue for silver maples, resulting in all ensuing branches (aka watersprouts) being weakly-attached, prone to breaking during storm events, and growing at ever-increasing rates following each pruning cycle.

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The canopy is asymmetrical and has an average spread of nearly 45 feet, extending predominantly in directions away from the home (more specifically, 15 feet towards the home, 20 feet over the street, and 50 feet east to west). Along its lower section, foliage consists predominantly of waterspouts due to extensive pruning in the past, and there are some dead branches along the west and east sides. Towards the north, branches grow around the adjacent utility pole, phone and cable wires. Some branches which extend over the home are heavy and bow downward, increasing their possibility for breaking.

Based these observations, I regard the tree's health to be fair, structural integrity as poor, and assign a suitability for preservation rating of poor. The dominant factor regarding the poor suitability involves the tree's unfavorable location beneath high-voltage wires, resulting in an irreparable structure throughout its remaining lifespan. Furthermore, its large size within a relatively confined setting reveals it has outgrown the location.

3.0 IMPACT ANALYSIS

My analysis considers both the canopy and root zone. For the canopy, I do not foresee any significant conflicts posed by constructing the proposed building. The limb structure and form along the building side is already upright, and only small branches would require pruning to achieve a 5-foot clearance from both the building and construction scaffolding.

The root zone, however, would be significantly impacted by introducing the following: a concrete staircase 16 feet east of the trunk; a 5-foot wide, concrete walkway 4.5 feet south of the trunk (this walk will abut and align the new building); and constructing the building's foundation 10 feet south from the trunk, which will also require subexcavation and compaction, likely at least 5 feet beyond the foundation.

For the staircase and walkway, overexcavation needed to form and pour the concrete will result in soil excavation by at least an additional 12 inches towards the trunk, establishing root loss as close as 15 feet towards the east and 3.5 feet towards the south (building side). To construct the building's foundation, subexcavation and compaction is expected to occur

David L. Babby, Registered Consulting Arborist® November 11, 2024

at least 5 feet beyond the proposed foundation; consequently, all roots beneath the future walkway and up to the western property boundary would be removed.

These root impacts are unavoidable and cannot be mitigated. For a large maple tree growing in the particular setting, where the rooting area is already limited and confined to directions away from the retaining wall, a setback of *at least* 10 feet from its trunk is needed to achieve a minimal reasonable assurance of survival and anchoring capacity (a distance within 5 times the trunk's diameter). This setback cannot be achieved towards the south, where root loss will occur up to several feet from the trunk, ultimately jeopardizing the tree's anchoring capacity and longevity (the distance represents only 1.5 times the trunk's diameter).

There is also a substantial amount of digging and trenching needed for a water line and meter, as well as irrigation lines, valves, lighting and flow sensor. Some digging will also occur for installing new plants. Although measures could help reduce impacts, the amount of items within the planter will further contribute to the loss of roots.

4.0 CONCLUSIONS

- The proposed design will result in severe root loss south of the trunk, thus jeopardizing the tree's anchoring capacity and longevity. These impacts are unavoidable and cannot be sufficiently mitigated.
- Due to the severity of inevitable root loss, I recommend the tree is removed for safety purposes rather than be retained, and a new tree of 24-inch box size installed as a replacement (this size is provisioned within Code Section 13.40.110). The species of new tree should be compatible for growing beneath high-voltage wires, such as a Chinese pistache (*Pistacia chinensis*).
- Based on the maple's poor suitability for preservation, poor structural integrity, having outgrown its current location, and being located beneath high-voltage wires, any design modifications to achieve a reasonable level of protection seem extremely unwarranted.

David L. Babby, Registered Consulting Arborist® November 11, 2024

5.0 ASSUMPTIONS AND LIMITING CONDITIONS

- Information presented herein covers only the subject silver maple, and reflects its size, condition and areas viewed from the ground, project site, sidewalk and street on 10/3/24 and 11/7/24.
- Observations were performed visually without probing, coring, dissecting or excavating.
- The assignment pertains solely to the subject tree, and I hold no opinion towards other trees on or surrounding the project area.
- I cannot provide a guarantee or warranty, expressed or implied, that deficiencies or problems of the subject tree or property in question may not arise in the future.
- No assurance can be offered that if all my recommendations and precautionary measures (verbal or in writing) are accepted and followed that the desired results may be achieved.
- I cannot guarantee or be responsible for the accuracy of information provided by others.
- I assume no responsibility for the means and methods used by any person or company implementing the recommendations presented in this report.
- The information provided herein represents my opinion. Accordingly, my fee is in no way contingent upon the reporting of a specified finding, conclusion or value.
- I am an independent consulting arborist operating under the name of Arbor Resources, and neither my company or I will engage in executing any work associated with the tree.
- Information presented on the site map in Exhibit A is solely intended to approximately represent the tree's location, size, and protection zone and materials (versus surveyed points).
- This report is proprietary to me and may not be copied or reproduced in whole or part without prior written consent. It has been prepared for the sole and exclusive use of the parties to who submitted for the purpose of contracting services provided by David L. Babby.
- If any part of this report or copy thereof be lost or altered, the entire evaluation shall be invalid.

Prepared By:

David L. Babby
Registered Consulting Arborist® #399
Board-Certified Master Arborist® #WE-4001B
CA Licensed Tree Service Contractor #796763 (C61/D49)

Date: November 11, 2024



David L. Babby, Registered Consulting Arborist® November 11, 2024

EXHIBIT A:

SITE MAP

(one sheet)

NO.	REVISION	DATE	BY
1	FLANCKE COMMENTS	03-28-24	
2	FLANCKE COMMENTS	06-28-24	
3	FLANCKE COMMENTS	11-22-24	
4			
5			
6			
7			
8			
9			
10			



REID LERNER ARCHITECTS
PHONE 408-842-9942
REIDLERNER@YAHOO.COM
7680 MONTEREY ST #105
GILROY, CA 95020

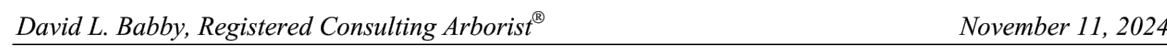
TILTON APARTMENTS
NEW MULTI-FAMILY APARTMENTS
328 TILTON AVENUE
SAN MATEO, CA 94401

ARBORIST REPORT &
TREE PROTECTION PLAN

Drawn	MM
Checked	RL
Date	10/17/23
Scale	AS NOTED
For	PLANNING REVIEW
Sheet	

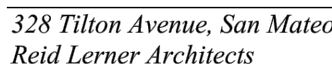


T-1

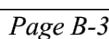
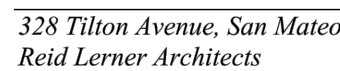
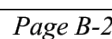
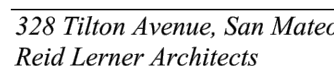


(three sheets)

328 Tilton Avenue, San Mateo
Reid Lerner Architects



Page B-1



Zoning Code, Section 27.71 – Landscape, requires all projects to have a minimum ratio of **1 tree per 400 square feet** of landscaped area. Existing trees that are a minimum of 6 inch diameter may count toward this total.

Landscape Area: 968 sq. ft. \div 400 = 2 (a)

Number of existing trees from Tree Evaluation Schedule
with a 6 inch or greater diameter **to be preserved:** _____0_____ (b)

Landscape Unit (LU) value of trees **to be removed**
from the Tree Evaluation Schedule: 1 (c)

Minimum LU value to be replaced and/or met through payment of in-lieu fees: **[a – b + c = d]** 3 (d)

New Trees:

A "landscape unit" (LU) value equivalent to (d) above, must either be planted on site, or an "in-lieu" fee paid to the city's street tree planting fund. If the LU value shown at (e) is not equal or greater than (d), then an in-lieu fee must be paid to the City's street tree planting fund at the rate defined annually in the City's Comprehensive Fee Schedule for each deficient LU.

New Trees Being Planted*			
Quantity	Size	LU Value	Total LU Value
5	15 gallon	1	5
1	24 inch box	2	2
	36 inch box	3	
	48 inch box	4	
Total LU Value of new trees being proposed:			7 (e)

*New replacement trees shall be in addition to and not substitute requirements for new street trees, parking lot trees or other required trees.

Fees Owed to the City Street Tree Planting Fund:

If (d) is greater than (e), there will be an LU value deficit calculated as follows:

[d - e = ____ x (the annually defined \$ per LU value as per
Current Comprehensive Fee Schedule) = \$_____]

31

The Planning Application Guide

NO.	REVISION	DATE	BY
1	PLAN CHECK COMMENTS	03-25-24	
2	PLAN CHECK COMMENTS	06-25-24	
3	PLAN CHECK COMMENTS	11-22-24	
4			
5			
6			
7			
8			
9			
10			



REID LERNER ARCHITECTS
PHONE 408-842-9942
REIDLERNER@YAHOO.COM
7680 MONTEREY ST #105
GILROY, CA 95020

TILTON APARTMENTS
NEW MULTI-FAMILY APARTMENTS
328 TILTON AVENUE
SAN MATEO, CA 94401

ARBORIST REPORT & REQUIRED TREE PLANTING FORM

Drawn	MM
Checked	RL
Date	10/17/23
Scale	AS NOTED
For	PLANNING REVIEW
Sheet	

T-2

6'-0" high Not to Scale



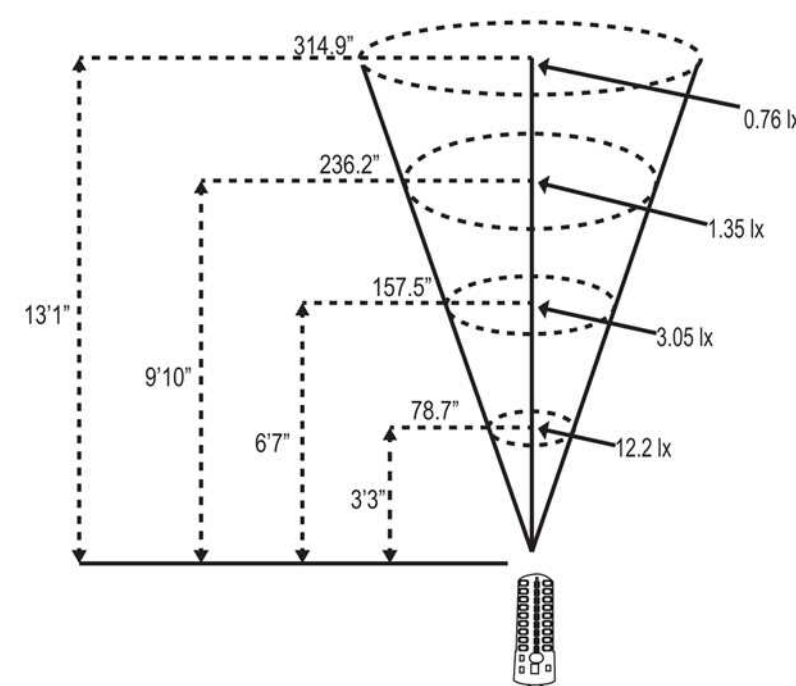
Model: LBIPIN-LED-350LM (350 LUMEN BIPIN LED)



Specifications and Features:

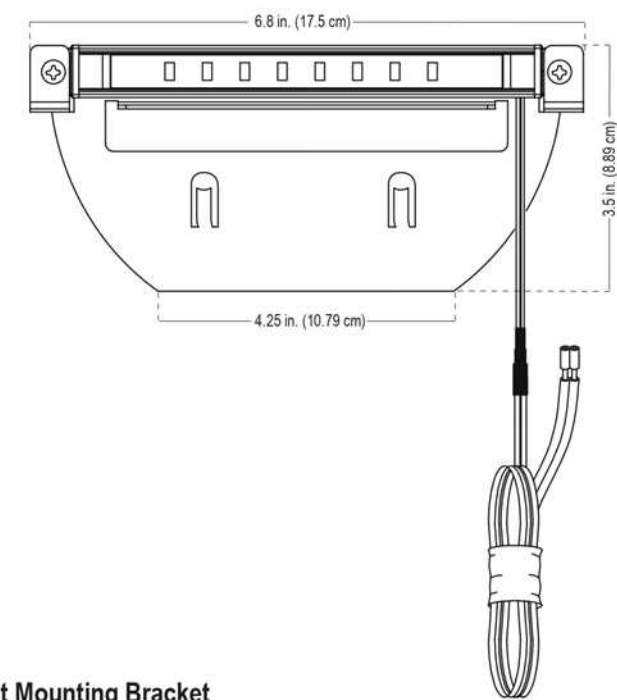
Watts: 3
Base Type: G4BiPin
Light Output: 350 lumens
Color: Warm White
Color Temperatures: 2700K
Operating Voltage: 8-24V
LED: ~80
LED Chip Qty: 72 Pieces
Rated Hours: >25,000 hrs
Ambient Operating Temperature: -20°C - +50°C
Transformer Compatibility: Must be powered by magnetic transformer
Warranty: Five year limited warranty on LED components

Lamp Color Options					
Model #	Color	Color Temp.	Base Type	Wattage	Lumen Output
LBIPIN-LED-350LM	Warm White	2700K	BIPIN/G4	3w	350lm

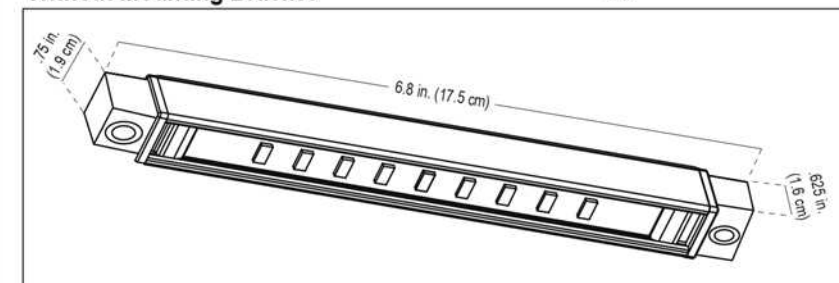


Model: SL75-LED (Integrated LED Edge Light)

Bracket Width: 6.8 in. (17.5 cm)
Bracket Depth: 3.5 in. (8.8 cm)
LED Housing Height: .625 in. (1.6 cm)
LED Housing Depth: .75 in. (1.9 cm)



Without Mounting Bracket



Notes

Specifications and Features:

Body: Brass fixture, aged brass finish

Mounting Bracket: Stainless steel, aged brass finish

Wire: 10 Foot wire lead, 16 awg (UL listed), brown, Pre-connected to the fixture, Pre-sprayed for easy wire connection

Warranty: 10 Year warranty

Integrated LED Strip: 9 Chips

Watts: 3w

Beam Angle: 120°

Beam Spread: Flood

Light Output: 300 Lumens

Color: Warm White

Color Temperature: 2700K

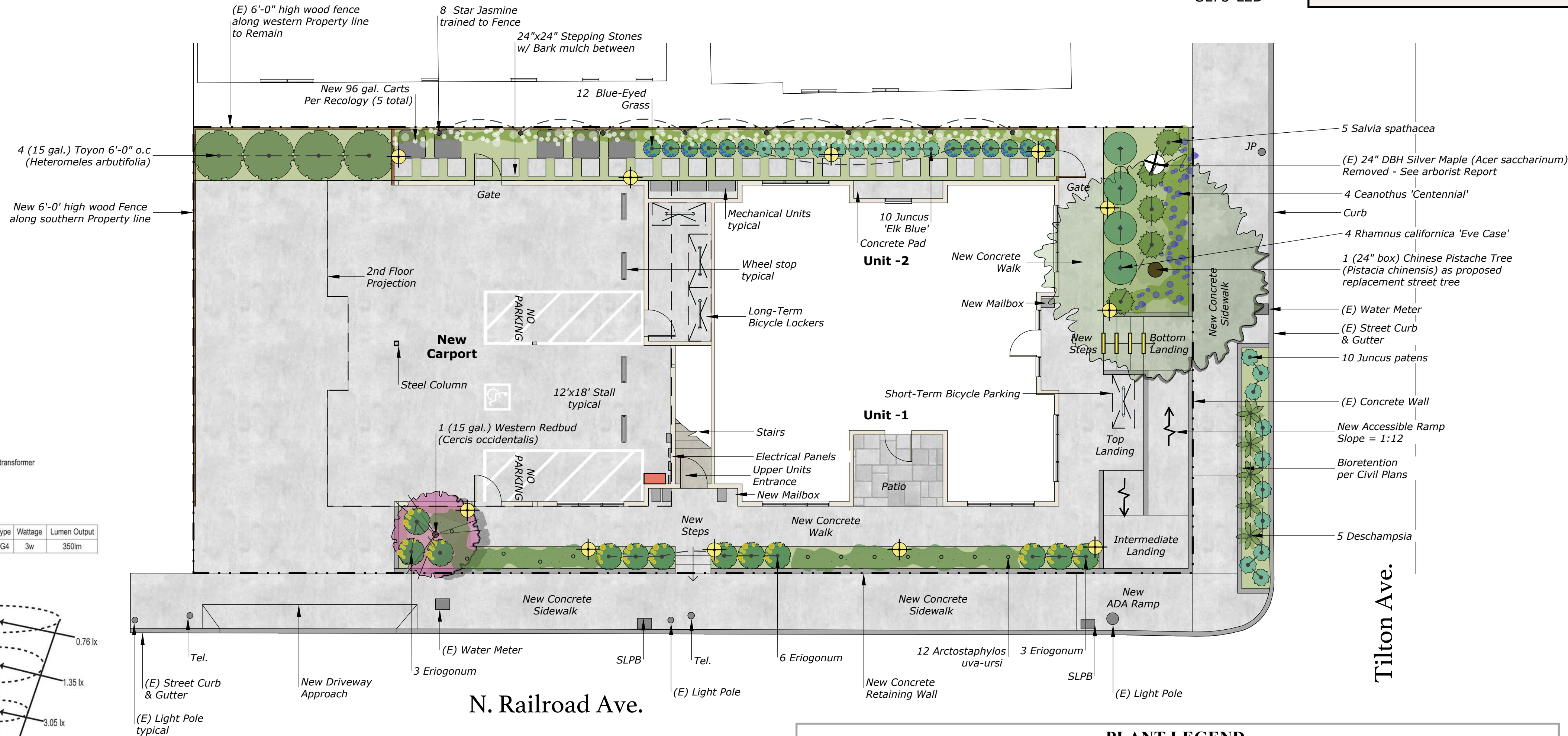
Operating Voltage: 10vac - 15vac

CRi: Ra>80

Halogen Equivalent: 20w

Rated Hours: 30,000

Ambient Operating Temperature: 40°C - +85°C



Plant Legend						
Botanical	Common	Size	Qty	Water	Remarks	
Tree						
Cercis occidentalis	Western Redbud	15 gal	1	Very Low	Ca. Native	
Heteromeles arbutifolia	Toyon	15 gal	4	Very Low	Ca. Native	
Pistacia chinensis	Chinese Pistache	24" box	1	Low	Replacement Street Tree	
Shrub						
Ceanothus 'Centennial'	Centennial Mountain Lilac	1 gal	4	Very Low	Ca. Native	
Rhamnus californica 'Eve Case'	Eve Case Compact Coffeeberry	5 gal	4	Very Low	Ca. Native	
Salvia spathacea	Hummingbird Sage	1 gal	5	Low	Ca. Native	
Ground cover						
Arctostaphylos uva-ursi	Bearberry	1 gal	12	Low	Ca. Native	
Trachelospermum jasminoides	Star Jasmine	5 gal	8	Low		
Perennial						
Eriogonum umbellatum	Sulfur Flower	5 gal	14	Low	Ca. Native	
Sisyrinchium bellum	Blue-Eyed Grass	1 gal	20	Very Low	Ca. Native	
Grass						
Deschampsia cespitosa	Tufted Hair Grass	1 gal	5	Low	Ca. Native	
Juncus patens	California Gray Rush	1 gal	10	Medium	Ca. Native	
Juncus patens 'Elk Blue'	Elk Blue California Gray Rush	1 gal	10	Low	Ca. Native	

Note: 91% of the proposed plants are California native.

At least 4 cu. yds. of compost, six (6) inches deep, shall be applied per 1,000 sq. ft. of landscape area.

A minimum three (3") inch layer of bark mulch shall be applied on all exposed soil surfaces of planting areas.

Refer to L-3 for Planting Details

Karen Aitken & Associates

These drawings are instruments of service, issued for a one-time single use by the owner. The entire contents of these drawings is copyright Karen Aitken & Associates. Landscape Architect retains all rights and title. No part may be reproduced in any fashion or medium without the express written approval of the landscape architect. The proper electronic transfer of data should be the user's responsibility without liability to the landscape architect. Owner shall assume responsibility for compliance with all easements, setback requirements and property lines. Owner shall acquire all necessary permits required to perform work on plans. Base information has been provided by the owner. Karen Aitken & Associates assumes no liability for the accuracy of said property line boundaries, fence lines or property corners.

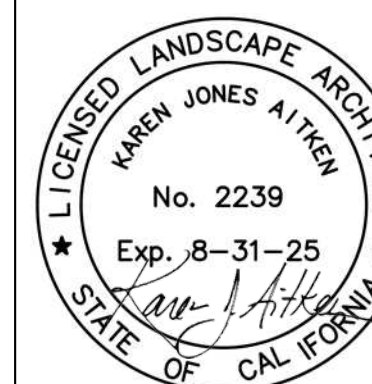
REVISIONS	BY



KAREN AITKEN & ASSOCIATES
LANDSCAPE ARCHITECTS

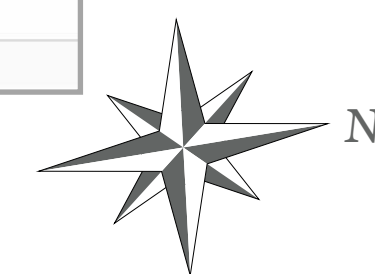
8262 Rancho Real Gilroy Ca. 95020
Calif. Reg.#2239 (408) 842-0245
karen@kaa.design

TILTON UNITS
330 Tilton Ave. San Mateo, CA.
PLANTING & LIGHTING PLAN




DATE	11-20-24
SCALE	1/8"=1'-0"
DRAWN	AD
JOB	TILTON UNITS

L-1



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



A horizontal graphic scale bar. It consists of a series of alternating black and white rectangular segments. Below the bar, the numbers 0, 8, and 16 are printed, indicating the scale in feet. The total length of the bar represents 16 feet.

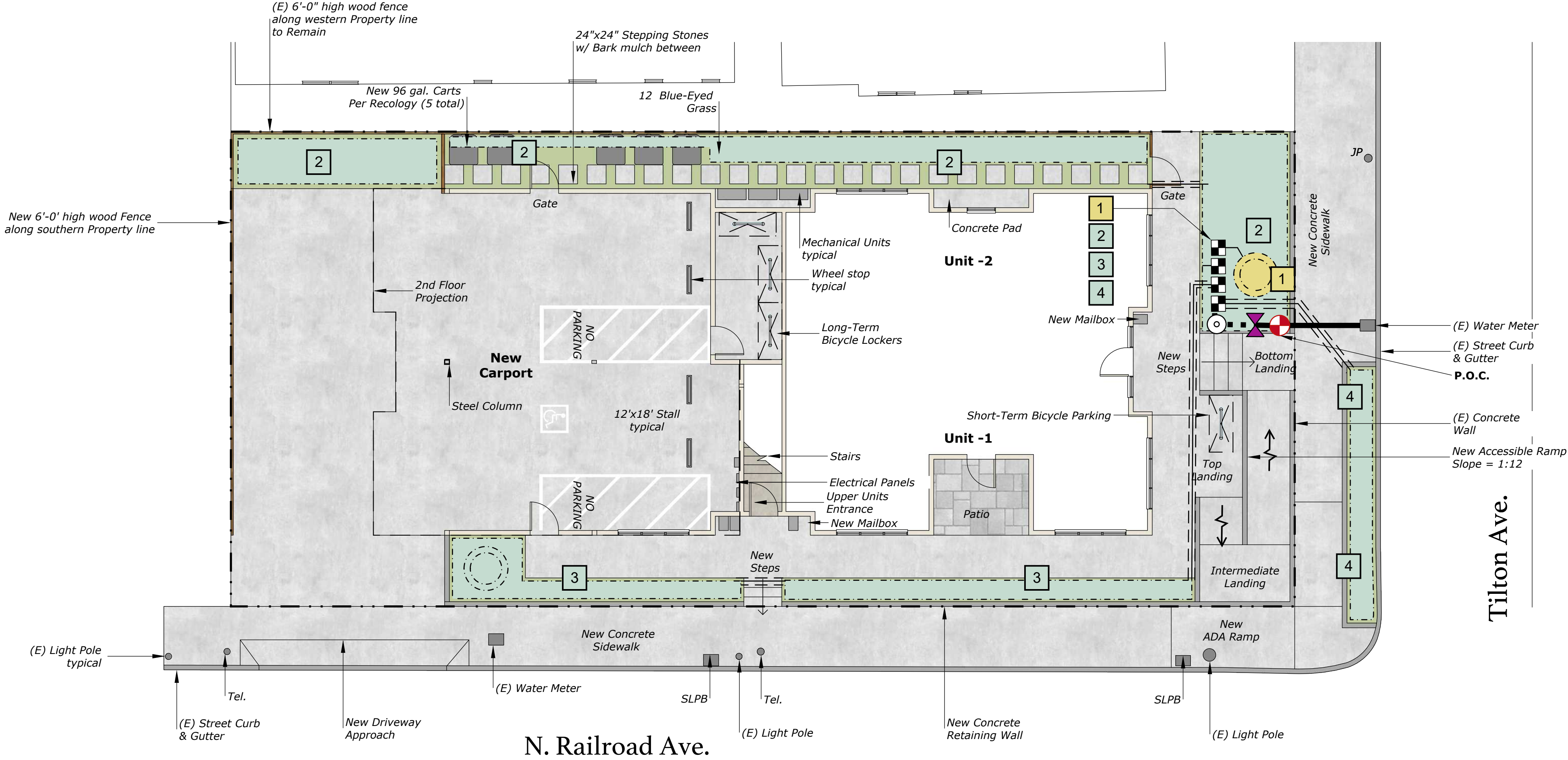
* **NOTES (E) = Existing**



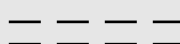


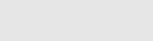





IRRIGATION NOTES

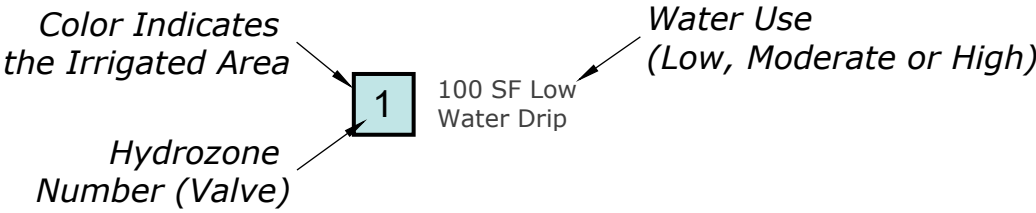
1. THE IRRIGATION SYSTEM IS TO BE INSTALLED IN CONFORMANCE WITH ALL LOCAL CODES.
2. THIS IRRIGATION DESIGN IS DIAGRAMMATIC IN NATURE AND DOES NOT REPRESENT AN EXACT LAYOUT. THE CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS IN HEAD, VALVE, AND PIPING LAYOUT. FOR GRAPHIC CLARITY, PIPING MAY BE SHOWN OUTSIDE OF PLANTING AREAS BUT SHOULD BE INSTALLED IN BEDS WHENEVER POSSIBLE.
3. REMOTE CONTROL VALVES SHALL BE INSTALLED FLUSH WITH FINISH GRADE AND SHOULD BE INSTALLED IN PLANTING AREAS ONLY. USE EXISTING VALVE BOXES WHEN POSSIBLE.
4. WHERE PIPE PASSES UNDER DRIVING SURFACES, AND WALKS PROVIDE PVC SLEEVES AS NOTED ON PLANS. CONTRACTOR TO USE EXISTING SLEEVING WHEN POSSIBLE AND IS TO LOCATE ON SITE.
5. CONTRACTOR TO CONFIRM THE LOCATION OF ALL EXISTING UTILITIES AND UNDERGROUND STRUCTURES PRIOR TO EXCAVATION OF TRENCHES. CONTRACTOR TO REPAIR ANY DAMAGES CAUSED BY, OR DURING THE PERFORMANCE OF HIS WORK AT NO EXTRA COST TO THE OWNER.
6. A DIAGRAM OF THE IRRIGATION PLAN SHOWING HYDROZONES SHALL BE KEPT WITH THE IRRIGATION CONTROLLER FOR SUBSEQUENT MANAGEMENT PURPOSES.
7. AN IRRIGATION AUDIT REPORT SHALL BE COMPLETED BY A CERTIFIED IRRIGATION AUDITOR AT THE TIME OF FINAL INSPECTION

SOIL PREPARATION, MULCH AND AMENDMENTS

- THE FOLLOWING CRITERIA SHALL BE USED IN THE PREPARATION OF ON-SITE SOILS AND FOR MULCHING PROCEDURES:
- A) PRIOR TO THE PLANTING OF ANY MATERIALS, COMPACTED SOILS SHALL BE TRANSFORMED TO A FRIABLE CONDITION. ON ENGINEERED SLOPES, ONLY AMENDED PLANTING HOLES NEED MEET THIS REQUIREMENT.
- B) SOIL AMENDMENTS SHALL BE INCORPORATED ACCORDING TO RECOMMENDATIONS OF THE SOIL REPORT AND WHAT IS APPROPRIATE FOR THE PLANTS SELECTED.
- C) FOR LANDSCAPE INSTALLATIONS, 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. SOILS WITH GREATER THAN 6% ORGANIC MATTER IN THE TOP 6 INCHES OF SOIL ARE EXEMPT FROM ADDING COMPOST AND TILLING.
- D) A MINIMUM THREE INCH (3") LAYER OF BARK MULCH SHALL BE APPLIED ON ALL EXPOSED SOIL SURFACES OF PLANTING AREAS EXCEPT IN TURF AREAS, CREEPING OR ROOTING GROUNDCOVERS, OR DIRECT SEEDING APPLICATIONS WHERE MULCH IS CONTRAINDICATED.



IRRIGATION KEY	
	Irrigation Lateral Line: 1 in. PVC Class 200
	Irrigation Mainline: 1 in. PVC Schedule 40
	Pipe Sleeve: PVC Class 200 - Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.
	Hunter ICZ-101-25-LF Drip Control Zone Kit. 1" ICV Globe Valve with 1" HY100 filter system. Pressure Regulation: 25psi. Flow Range: .5-15 GPM. 150 mesh stainless steel screen.
	Hunter HFS-150 Flow Sensor for use with ACC controller, 1" Schedule 40 Sensor Body, 24 VAC, 2 amp.
	Hunter Dripline HDL-06-12-CV Hunter Dripline w/ 0.9 GPH emitters every 12 in. Dripline laterals spaced at 12" apart. Install with Hunter PLD barbed or PLD-LOC fittings.
	Tree Ring Irrigation Dripline w/ 0.9 drip emitters placed every 12 in. Inner ring 12" from plant. Outer ring 30" from plant. Place tie down every 4' in loam and 5' in clay.
	Hunter ACC-1200 12 Station Outdoor Modular Controller. No Module Required. High-End Commercial Use. Metal Cabinet.
	Hunter SOIL-CLIK The Soil-Click probe uses proven technology to measure moisture within the root zone. When the probe senses that the soil has reached its desired moisture level, it will shut down irrigation, preventing water waste.
	Hunter Solar-Sync WSS-SEN Solar, rain freeze sensor with outdoor interface, connects to Hunter PCC, Pro-C, and 1-Core Controllers, install as noted. Includes 10 year lithium battery and rubber module cover, and gutter mount bracket. Wireless.
	Gate Valve - Insolation Shut off Valve



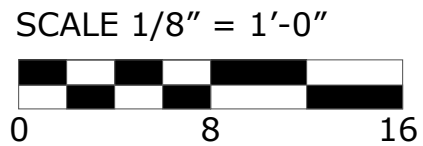
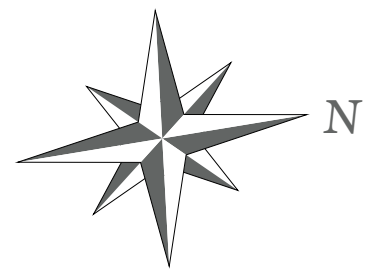
Hydrozone - Valves			
1	30 SF Med. Water Drip (Tree)	3	242 SF Low Water Drip
2	614 SF Low Water Drip	4	82 SF Low Water Drip (Bioretention)

Total Irrigated Landscape Area Represent 968 sf.

"I have complied with the criteria of the Water Conservation in Landscaping Ordinance and applied them accordingly for the efficient use of water in the landscape & irrigation design plans."

Karen Aitken

Refer to L-3 for Irrigation Details & Water Calculations



* NOTES (E) = Existing

REVISIONS

BY

KAREN AITKEN & ASSOCIATES

LANDSCAPE ARCHITECTS

8262 Rancho Real Gilroy Ca. 95020
Calif. Reg.#2239 (408) 842-0245
karen@kaa.design

TILTON UNITS

330 Tilton Ave. San Mateo, CA.

IRRIGATION PLAN

DATE 11-20-24
SCALE 1/8"=1'-0"
DRAWN AD
JOB TILTON UNITS

L-2

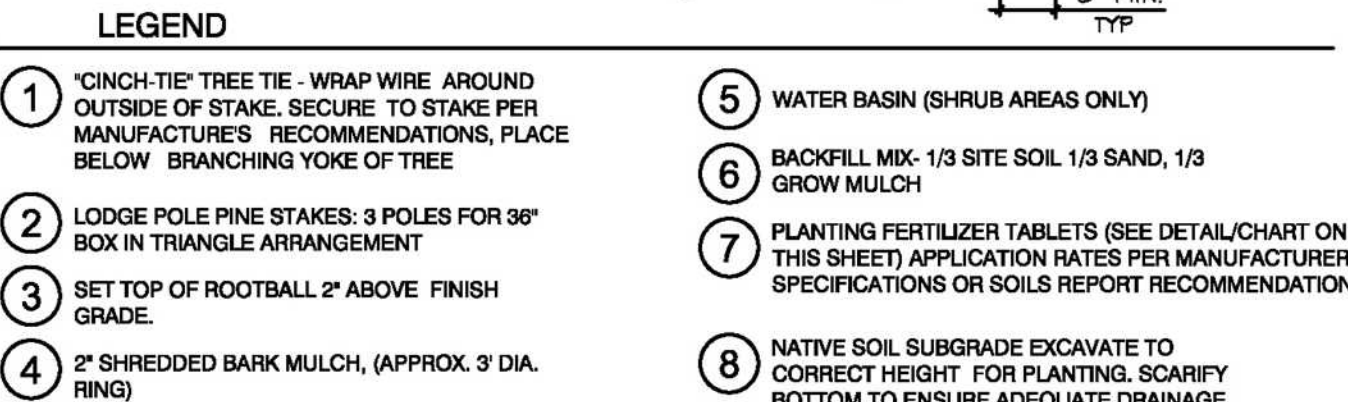
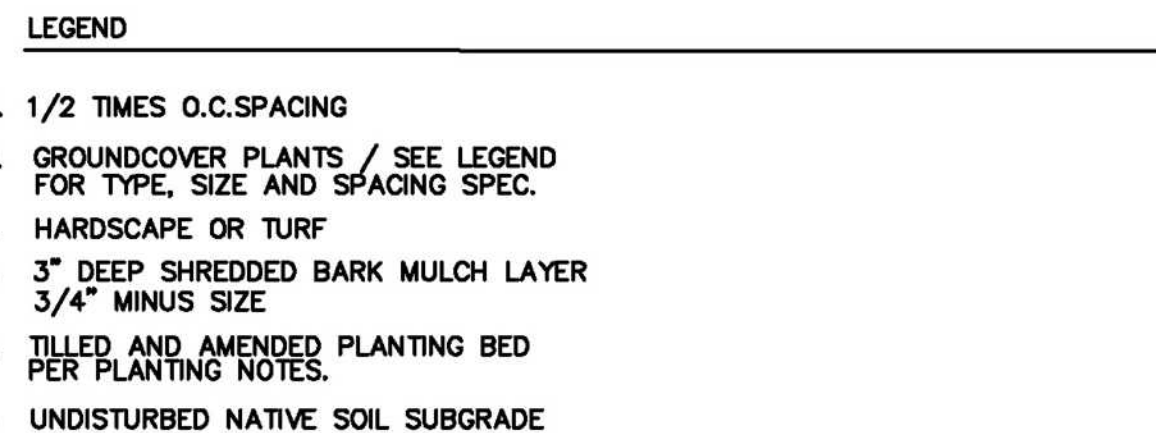


Diagram illustrating the components of a tree and its root system, labeled 1 through 7:

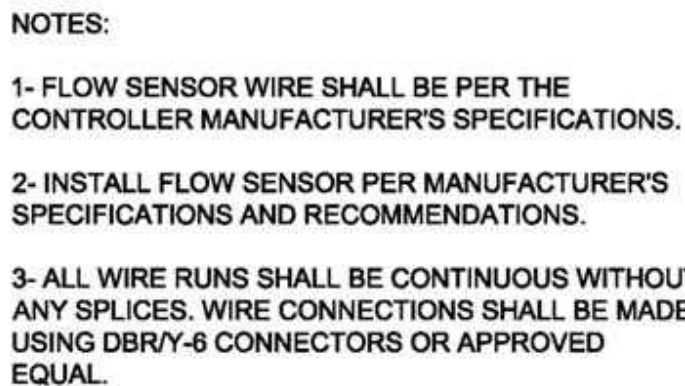
- 1: Canopy (Foliage)
- 2: Root Ball
- 3: Soil
- 4: Trunk
- 5: Root Ball
- 6: Soil
- 7: Ground Surface

The diagram also indicates the **DEPTH OF ROOTBALL** within the soil.

- ## TYPICAL SHRUB PLANTING



GROUNDCOVER PLANTING DETAIL



Technical drawing of a circular mechanical component, likely a flywheel or a gear. The drawing shows a cross-section of the component, which has a large outer gear-like rim and a central hub. The component is divided into several segments by radial lines. Dimension lines and labels A through F are used to specify various features and measurements:

- A**: Dimension line across the top of the outer rim.
- B**: Dimension line across the top of the inner hub.
- C**: Dimension line across the top of the outer rim, slightly offset from A.
- D**: Dimension line across the top of the inner hub, slightly offset from B.
- E**: Dimension line across the top of the outer rim, slightly offset from C.
- F**: Dimension line across the top of the inner hub, slightly offset from D.

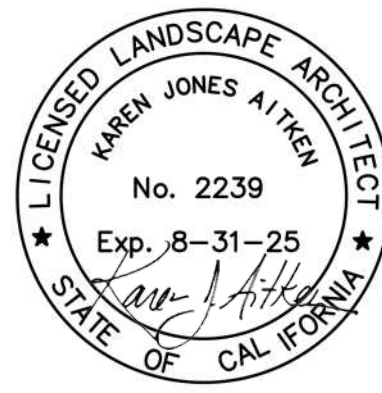
NOT TO SCALE



① HUNTER REMOTE CONTROL VALVE (ICZ) WITH FILTER REGULATOR	⑦ PVC SLIP X FPT ADAPTER
② IRRIGATION VALVE BOX: HEAT STAMP LID WITH 'RCV' IN 2" LETTERS	⑧ BRICK SUPPORTS (4)
③ WATERPROOF CONNECTORS (2)	⑨ FILTER FABRIC - WRAP TWICE AROUND BRICK SUPPORTS
④ 18"-24" COILED WIRE TO CONTROLLER	⑩ 3/4" WASHED GRAVEL - 4" MIN. DEPTH
⑤ FINISH GRADE AT ADJACENT SURFACE (TURF OR MULCH)	⑪ IRRIGATION LATERAL
⑥ SCH. 80 CLOSE NIPPLE, MATCH SIZE TO VALVE	⑫ MAINLINE LATERAL AND FITTINGS



NO SCALE

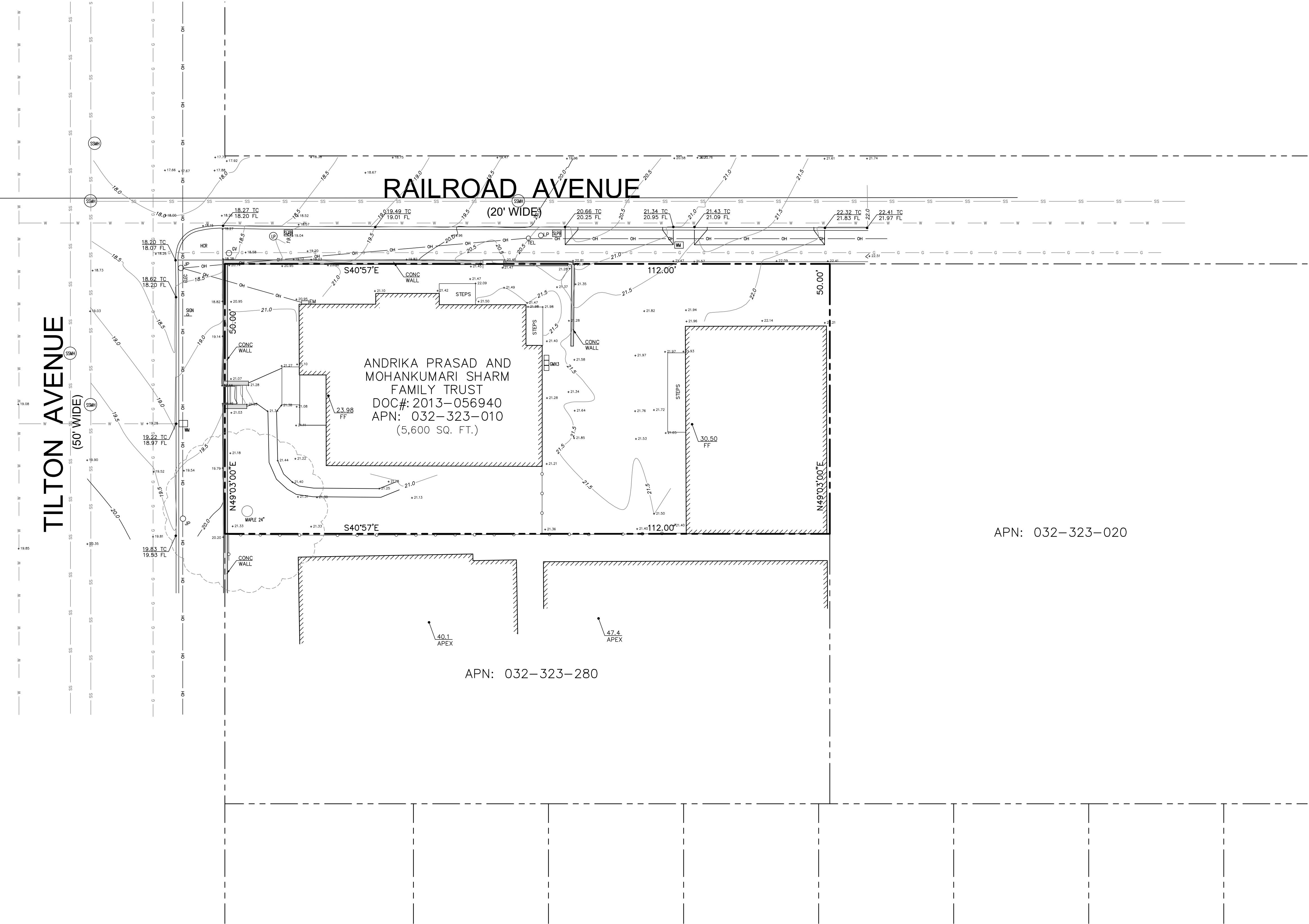
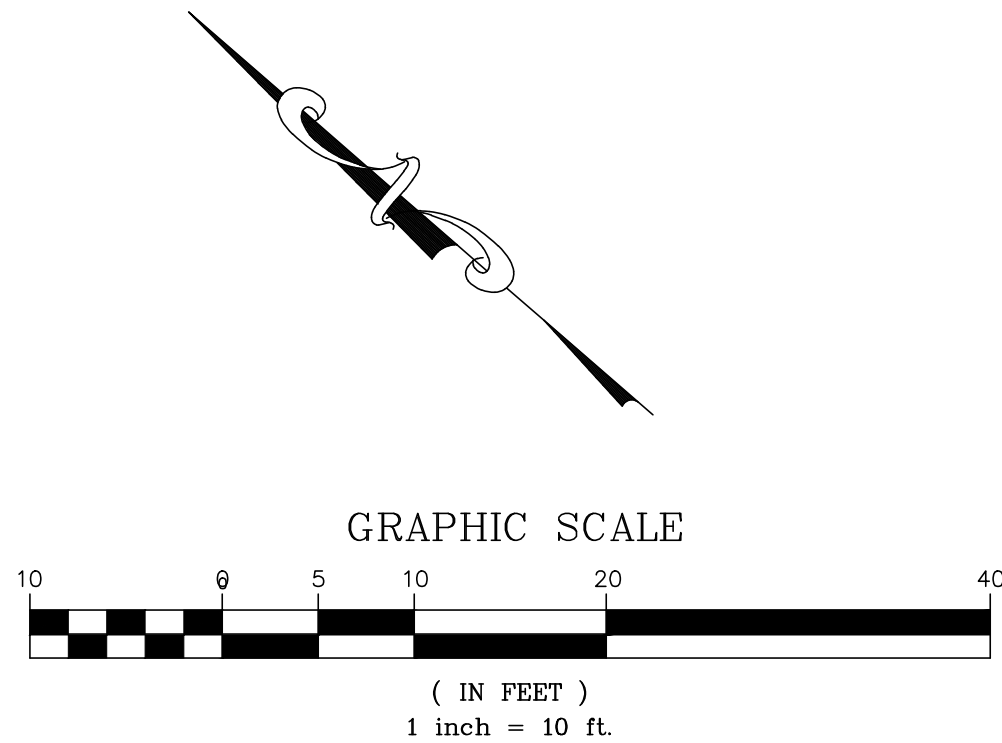


JOB TILTON UNITS

L-3

EASEMENT NOTE:

- (1) EASEMENT DOCUMENT (DOC# 2013-165785) WAS REVIEWED BY THE SURVEYOR. THE LOCATION OF THIS EASEMENT CANNOT BE PLOTTED ON THE TOPOGRAPHIC SURVEY MAP DUE TO THE ABSENCE OF A SPECIFIC LEGAL DESCRIPTION OR DELINEATION OF THE EASEMENT'S LOCATION.
- (2) THE GRANTEE OF THIS EASEMENT IS SPRINT COMMUNICATIONS COMPANY. FOR FURTHER DETAILS OR CONCERNS REGARDING THIS EASEMENT, IT IS RECOMMENDED TO CONTACT THE GRANTEE DIRECTLY.



ABBREVIATIONS AND LEGEND

BSBL	BUILDING SETBACK LINE	SM	SANITARY SEWER MANHOLE
CB	CATCH BASIN	SD	STORM DRAIN MANHOLE
CONC	CONCRETE	⋈	FIRE HYDRANT
EM	ELECTRIC METER	SS	SANITARY SEWER LINE
ELEC	ELECTRIC PULL BOX	W	WATER LINE
FT	FRUIT TREE	OH	OVERHEAD ELECTRICAL LINE
GM	GAS METER	G	GAS LINE
GV	GAS VALVE	SD	STORM DRAIN LINE
HCR	HANDICAP RAMP		
JP	JOINT POLE		
LP	LIGHT POLE		
PUE	PUBLIC UTILITY EASEMENT		
SSCO	SANITARY SEWER CLEAN OUT		
SLPB	STREETLIGHT PULL BOX		
TC	TOP OF CURB		
TEL	TELEPHONE		
UNK T	UNKNOWN TREE		
WM	WATER METER		
---	BOUNDARY LINE		
---	EXISTING FENCE LINE		
---	EXISTING BUILDING OUTLINE		
●	FOUND STANDARD CITY MONUMENT		
()	INDICATES REFERENCE MAP NUMBER		

REFERENCE INFORMATION

- (1) 21 LLS 83 (2) 14 MAPS 77

NOTE:

- (1) ALL DISTANCES AND DIMENSIONS SHOWN ARE IN FEET AND DECIMALS THEREOF UNLESS OTHERWISE NOTED.
- (2) BUILDING OUTLINE WAS MEASURED AT BUILDING EXTERIOR FINISH WALL SURFACE UNLESS OTHERWISE NOTED.
- (3) ELEVATION DATUM: NAVD 88. ELEVATIONS WERE ESTABLISHED WITH GNSS OBSERVATIONS.
- (4) A PRELIMINARY REPORT WAS NOT PROVIDED FOR CHECKING EASEMENT OF RECORDS. OTHER EASEMENTS MAY EXIST THAT ARE NOT SHOWN ON THIS MAP.

UTILITY NOTE

1. THE SURFACE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN LOCATED BY FIELD SURVEY. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN COMPILED FROM RECORDS OF THE VARIOUS AGENCIES. THE SURVEYOR ASSUMES NO RESPONSIBILITY FOR THEIR INDICATED LOCATION, SIZE, OR TYPE. RECORD UTILITY INFORMATION SHOULD BE CONFIRMED BY EXPOSING THE UTILITY.
2. SANITARY SEWER CLEAN OUT WAS SEARCHED NOT FOUND ON SITE. SANITARY SEWER LATERAL LOCATION IS NOT DETERMINED AND TO BE VERIFIED IN FIELD.

TOPOGRAPHIC SURVEY

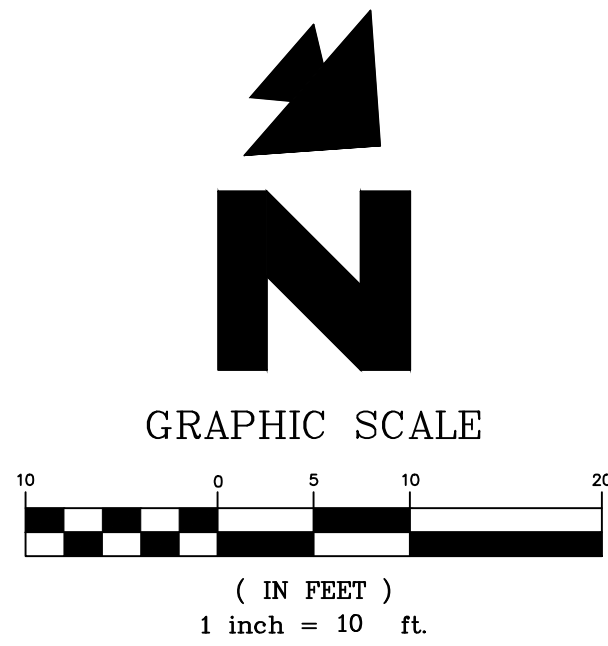
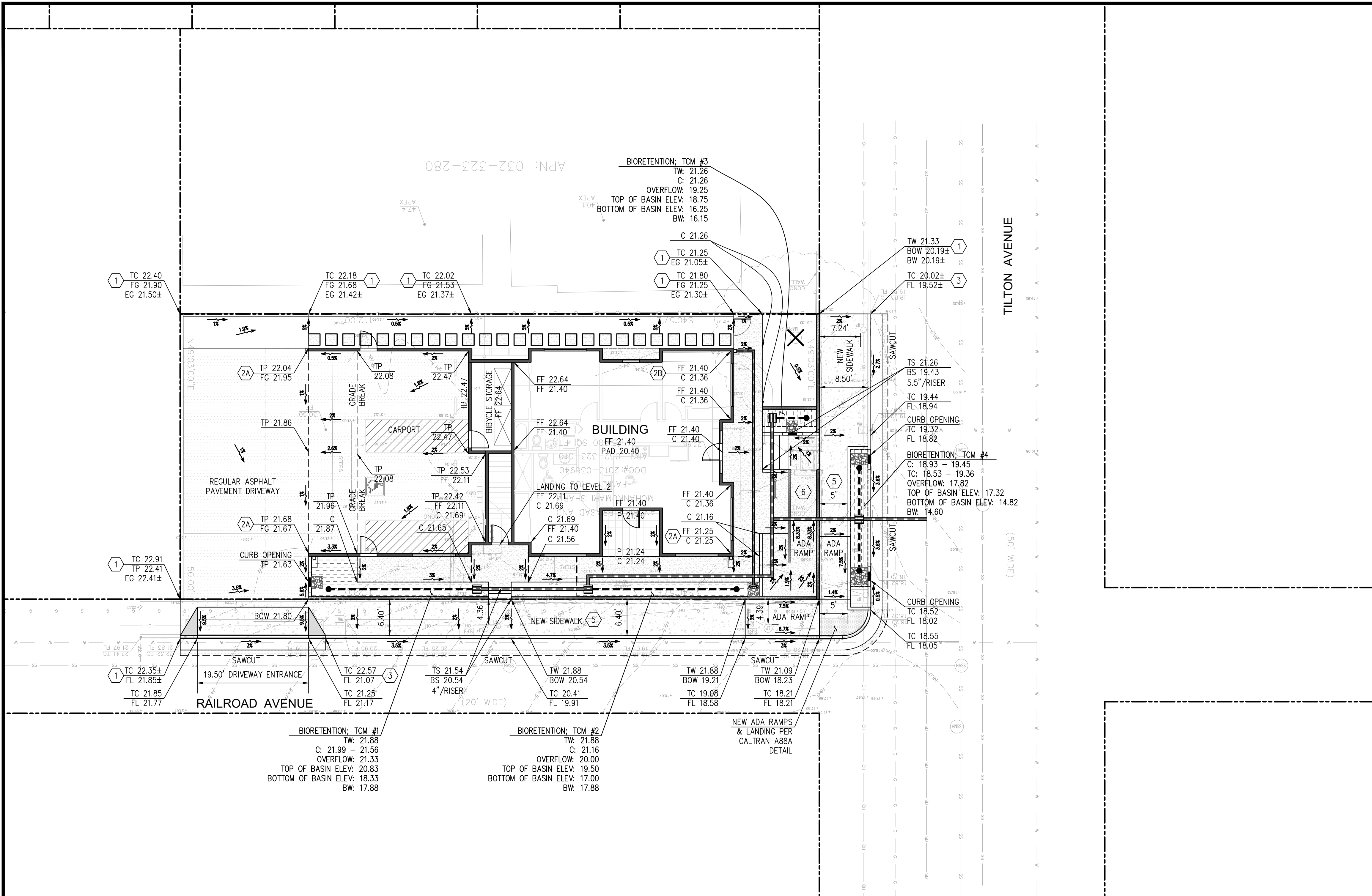
LANDS OF ANDRIKA PRASAD AND
MOHANKUMARI SHARM FAMILY TRUST
DOC#: 2013-056940
APN 032-323-010

(330 TILTON AVENUE)

CITY OF SAN MATEO SAN MATEO COUNTY CALIFORNIA
SCALE: 1"=10' MAY, 2023



ZHEN'S LAND SURVEYING CORP.
1121 S GRANT ST., SAN MATEO, CA 94402
TEL: (415)802-9945



- SITE DESIGN MEASURES:**
- DIRECT RUNOFF FROM ROOFS, SIDEWALKS, PATIOS TO LANDSCAPED AREAS.
- SOURCE CONTROL MEASURES:**
- BENEFICIAL LANDSCAPING.

PRE & POST DEVELOPMENT PERVIOUS/IMPERVIOUS AREAS:		
AREA TYPE	EXISTING (SF)	PROPOSED (SF)
ONSITE LOT AREA	5,600	5,600
OFFSITE IMPROVEMENT AREA	1,813	1,813
TOTAL LAND DISTURBANCE	7,413	
ON-SITE		
MAIN BUILDING (ROOF)	1,263	3,234
DETACHED GARAGE	1,002	N/A
PATIO/HARDSCAPE	323	844
DRIVEWAY	906	671
TOTAL IMPERVIOUS AREA	3,494	4,749
NET IMPERVIOUS AREA INCREASE:	1,255	
PERVIOUS PAVERS		
	N/A	N/A
PERVIOUS AREA	2,106	851
TOTAL PERVIOUS AREA	2,106	851
OFF-SITE		
SIDEWALK AND CURB & GUTTER	1,813	1,732
PERVIOUS AREA	0	81

GENERAL NOTES:

- IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
- CONTRACTOR SHALL PROTECT ALL PROPERTY CORNERS.
- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.
- CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
- CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDING FOR ALL NATURAL AND PAVED AREAS.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN GENERAL N.P.D.E.S. PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
- UTILITY INSTALLATION SHALL BE IN ACCORDANCE WITH CITY OF SAN JOSE UTILITY STANDARDS FOR WATER, GAS & WASTEWATER.
- CONTRACTOR SHALL REFER TO ARCH. PLANS FOR EXACT LOCATIONS OF UTILITIES SERVICES TO NEW BUILDING. COORDINATE WITH LOCAL UTILITIES COMPANIES FOR SERVICE CONNECTIONS.
- UTILITY VAULTS, TRANSFORMERS, UTILITY CABINETS, CONCRETE BASES, OR OTHER STRUCTURES CANNOT BE PLACED OVER WATER MAINS/SERVICES. MAINTAIN 1' HORIZONTAL CLEAR SEPARATION FROM THE VAULTS, CABINETS & CONCRETE BASES TO EXISTING UTILITIES AS FOUND IN THE FIELD. IF THERE IS CONFLICT WITH EXISTING UTILITIES, CABINETS, VAULTS & BASES SHALL BE RELOCATED FROM THE PLAN LOCATION AS NEEDED TO MEET FIELD CONDITIONS. TREES MAY NOT BE PLANTED WITHIN 10' OF EXISTING WATER MAINS/SERVICES OR METERS. MAINTAIN 10' BETWEEN TREES AND WATER SERVICES, MAINS & METERS.
- CONSTRUCTION ENTRANCES SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF GRADING. ALL CONSTRUCTION TRAFFIC ENTERING ONTO THE PAVED ROADS MUST ACROSS THE STABILIZED CONSTRUCTION ENTRANCE WAYS
- CONTRACTOR SHALL COMPLY THE CITY CLEAN THE BAY TEMPLATE PROCEDURES FOR THE SITE.
- SANITARY SEWER SHOWN FOR INFORMATION ONLY. SEE BUILDING PLUMBING PLANS FOR APPROVED DESIGN FOR CONSTRUCTION.

LEGEND

	PROPERTY LINE		REGULAR DUTY ASPHALT PAVEMENT
	EX. SPOT ELEVATION		PATIO/PORCH PER ARCH. PLANS
	FLOW DIRECTION		CONCRETE HRADScape PER ARCH. PLANS
	GRADE BREAK		PUBLIC CONCRETE SIDEWALK
	FLOW LINE		TRUNCATED DOMES
	STORM DRAIN PIPE		ENERGY DISSIPATOR
	DOWNSPOUT WITH SPLASH BLOCK		BIORETENTION
	4" PERFORATED PIPE		EX TREE TO BE REMOVED
	STORM DRAIN CLEANOUT		
	18" WIDE CURB OPENING		
	STORM DRAIN INLET		

ABBREVIATIONS:

BC	= BOTTOM OF CURB	FG	= FINISHED GRADE	P	= PORCH/PATIO
BOW	= BACK OF SIDEWALK	FL	= FLOWLINE	S	= SLOPE
BW	= BOTTOM OF WALL	FW	= FRONT OF WALK	SD	= STORM DRAIN
C	= CONCRETE	G	= GARAGE	TC	= TOP OF CURB
EG	= EXISTING GRADE/GROUND	GB	= GRADE BREAK	TP	= TOP OF GRATE
EX	= EXISTING	IE	= INVERT ELEVATION	TG	= TOP OF PAVEMENT
FF	= FINISHED FLOOR	LF	= LINEAL FEET	TYP	= TYPICAL

GRADING NOTES

- MATCH EXISTING ELEVATION
- DOWNSPOUT WITH CONCRETE SPLASH PAD PER DETAIL 1A
- RAINWATER LEADER PER DETAIL 1D
- BEGIN/END CURB & GUTTER PER CITY OF SAN MATEO STANDARD DETAIL
- BEGIN/END SIDEWALK PER CITY OF SAN MATEO STANDARD DETAIL
- REMOVE EXISTING DRIVEWAY ENTRANCE AND REPLACE WITH NEW SIDEWALK PER CITY OF SAN MATEO STANDARD DETAIL
- ADA ACCESSIBLE RAMP WITH HANDRAIL TO UNIT #1. MAX SLOPE NOT TO EXCEED 8.33% SEE ARCH PLANS FOR RAMP DETAIL

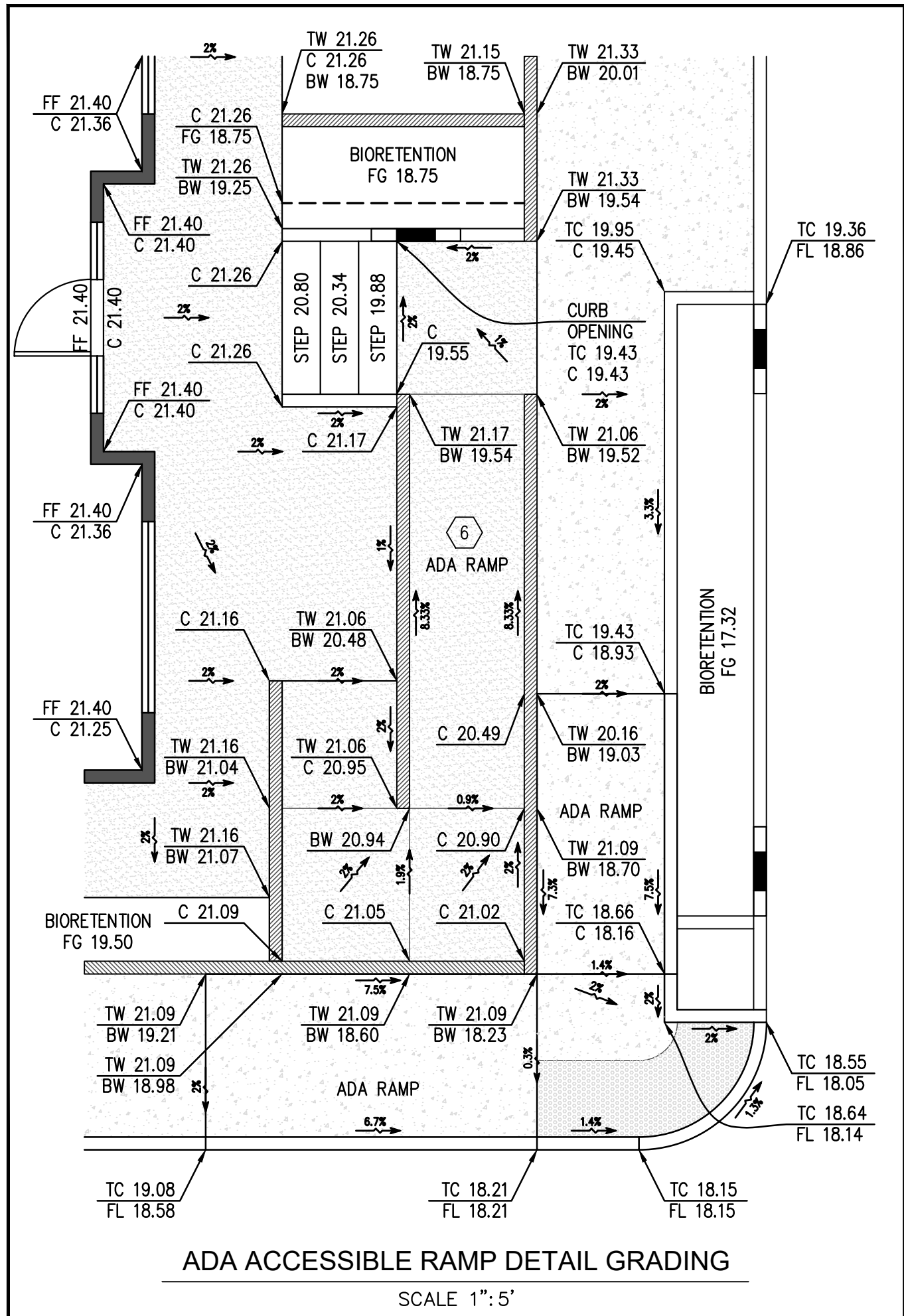
EARTHWORK VOLUME:

(INCLUDES BUILDING PAD)

EARTHWORK QUANTITIES:	VOLUME (CUBIC YARD)
FILL	30
COMPACTION RATE: 15%	30 x 0.15 = 4.5
TOTAL FILL	35 (ROUND UP)
CUT	120 *
TOTAL EARTHWORK	85 (EXPORT)

CONTRACTOR SHALL ESTIMATE THEIR EARTHWORK QUANTITIES WHEN BIDDING ON THIS PROJECT

* INCLUDES BIORETENTION EXCAVATION



PRELIMINARY GRADING AND DRAINAGE PLAN ANDRIKA PRASAD RESIDENCE 328 TILTON AVENUE SAN MATEO, CA 94401



SCALE

VERTICAL: 1"= AS SHOWN
HORIZONTAL: 1"= AS SHOWN

DATE: 3/21/24

DESIGNED: HCL

DRAWN: BL

REVIEWED: HCL

JOB NO.: 20230022

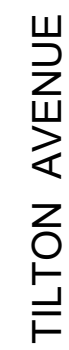
SHEET

C1

1 OF 4 SHEETS

REV. DATE DESCRIPTION

Δ	3/25/24	REVISION PER PLANNING COMMENTS, 12/1/23
Δ	8/2/24	REVISION PER PLANNING COMMENTS, 4/24/24
Δ	11/20/24	REVISION PER PLAN CHECK COMMENTS





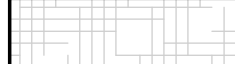


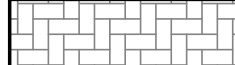







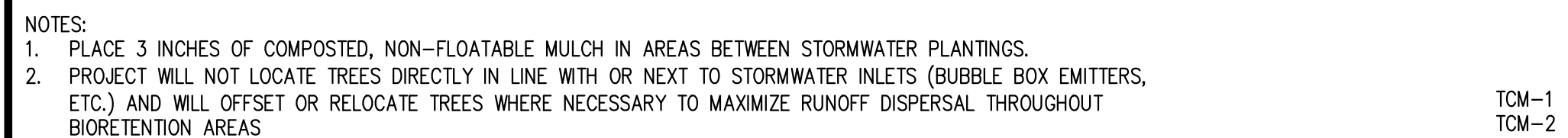
- | | |
|---|---|
|  | DESIGNATED DRAINAGE MANAGEMENT AREA (DMA WITH #) |
|  | DESIGNATED TREATMENT CONTROL MEASURE AREA (TCM WITH WAVE) |
|  | ROOF AREA (INCLUDE ROOF EAVE & DOWNSPOUTS) |
|  | ON-SITE IMPERVIOUS ASPHALT OR CONCRETE AREA |
|  | ON-SITE LANDSCAPE AREAS |
|  | OFF-SITE IMPERVIOUS CONCRETE AREA (SIDEWALK) |
|  | OFF-SITE IMPERVIOUS CONCRETE AREA (CURB & GUTTER) |
|  | SD COLLECTION SYSTEM |
|  | CURB OPENINGS |
|  | BUILDING DOWNSPOUTS |
|  | SURFACE FLOW DIRECTION |
|  | OVERFLOW CATCH BASIN |
|  | OUTLET PIPE TO BIORETENTION |

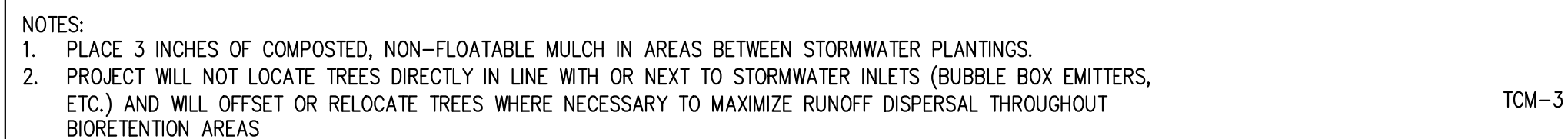
Table I.B.1 Impervious⁶ and Pervious⁶ Surfaces (Match DMA Summary Table in Worksheet D, if applicable)

		Pre-Project		Post-Project			
		I.B.1.a		I.B.1.b	I.B.1.c	I.B.1.d	I.B.1.e
		Existing (Pre-Project) Impervious Surface (sq ft.)		Existing Impervious Surface to be Retained ^a (sq ft.)	Existing Impervious Surface to be Replaced ^a (sq ft.)	New Impervious Surface to be Created ^a (sq ft.)	Post-Project Impervious Surface (sq ft.) (b)+(c)+(d)+(e)
Impervious Surfaces (IS) (e.g. sidewalks, driveways, parking areas, patios, roads, rooftops, pools, pathways, etc.)							
On-site area (within the parcel/private site boundaries)		3,494		-	3,494	1,275	4,769
Off-site area (e.g., frontage/other area in Public Right of Way)		1,813		-	1,732		1,732
	Subtotal:	5,307		-	5,226	1,275	6,501
Total Impervious Surface Replaced and Created: (sum of totals for columns I.B.1.c and I.B.1.d):				I.B.1.f	6,501	sq. ft.	
Pervious Surfaces (PS) (e.g. landscaping, pervious pavement, bioretention areas, parking strips, street trees, etc. - both on-site and off-site)			Existing (Pre-Project) Pervious Surface (sq ft.)				Post-project Pervious Surface (sq ft.)
All pervious off-site area (e.g. frontage/Public Right of Way) ^b		-					81
Landscaping area on-site		2,106					831
Pervious Pavement area on-site							
							I.B.1.g
Green Roof area on-site							
	Subtotal:	2,106					912
Total Project Area (should be equal to I.A.1)		7,413					7,413
				50% Rule Calculation			
				I.B.1.h			
				100%			

DMA#	TCM#	TREATMENT TYPE	SIZING METHOD	DRAINAGE AREA (SF)	IMPERVIOUS AREA (SF)	PERVIOUS AREA (SF)	% AREA TREATED BY BID	BIORETENTION AREA REQUIRED (SF)	BIORETENTION AREA PROVIDED (SF)	BIORETENTION LINED OR UNLINED	OVERFLOW RISER HEIGHT (IN)	STORAGE DEPTH REQUIRED (FT)	STORAGE DEPTH PROVIDED (FT)	LOCATION	CORRESPONDING DETAIL
1	1	BIORETENTION (BELOW GRADE)	FLOW	2,493	2,387	106	33.6%	95.9	106	LINED	6	0.5	0.5	ONSITE	1
2	2	BIORETENTION (BELOW GRADE)	FLOW	1,920	1,811	109	25.9%	72.9	75	LINED	6	0.5	0.5	ONSITE	1
3	3	BIORETENTION (BELOW GRADE)	FLOW	1,187	571	616	16%	25.3	28	LINED	6	0.5	0.5	ONSITE	2
4	4	BIORETENTION (BELOW GRADE)	FLOW	1,813	1,732	81	24.5%	69.6	72	LINED	6	0.5	0.5	OFFSITE	3
				7,413	6,501	912	100%								

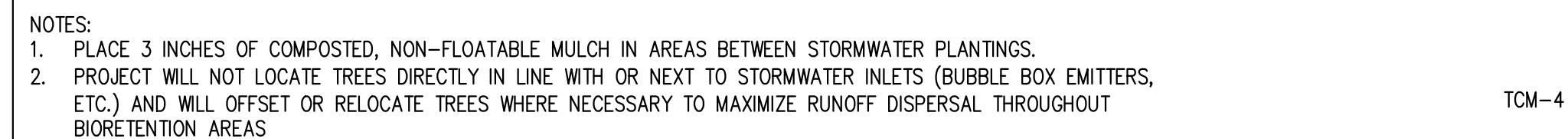


TCM-1	
TCM-2	
<hr/>	
N.T.S.	



TCM-3

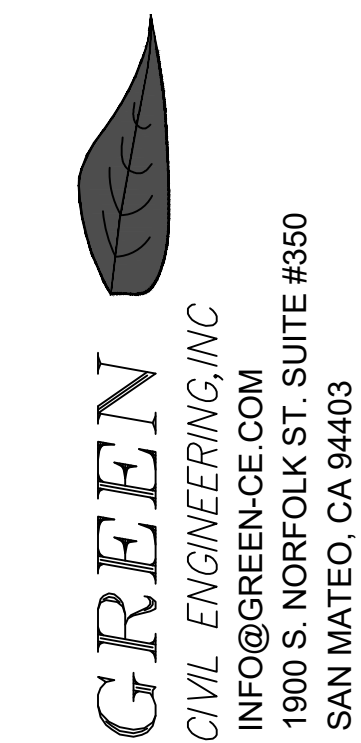
N.T.S



TCM-4

N.T.S

PRELIMINARY
STORMWATER CONTROL PLAN
ANDRIKA PRASAD RESIDENCE
328 TILTON AVENUE
SAN MATEO, CA 94401



SCALE

VERTICAL: 1"= AS SHOWN
HORIZONTAL: 1"= AS SHOWN

DATE: 3/21/24

DESIGNED: HCL

DRAWN: BL

REVIEWED: HCL

20230022

SHEET

C2.0

C2.0

2 OF 4 SHEETS

Worksheet for Calculating the Combination Flow and Volume Method

Instructions: After completing Section 1, make a copy of this Excel file for each Drainage Management Area within the project. Enter information specific to the project and DMA in the cells shaded in yellow. Cells shaded in light blue contain formulas and values that will be automatically calculated.

1.0 Project Information

1.1 Project Name:	New Multi-Family Units	The calculations presented here are based on the combination flow and volume using method presented in the Countywide Program's C.3 Technical Guidance, Version 5.0 (2018). The steps presented below are explained in Section 5.3 of the Guidance, applicable portions of which are included in this file, in the sheet named "Guidance from Chapter 3".
1.2 City application ID:	PA-2023-071	
1.3 Site Address or APN:	328 Tilton Ave, San Mateo	
1.4 Tract or Parcel Map No:		
1.5 Rainfall Region	6	
1.6 Region Mean Annual Precipitation (MAP)	20.10	Click here for map
1.7 Site Mean Annual Precipitation (MAP)	22	

1.8 MAP adjustment factor is automatically calculated as: 1.09
(The "Site Mean Annual Precipitation (MAP)" is divided by the MAP for the applicable rain gauge, shown in Table 5-3, below.)
Refer to the map in Appendix C of the C.3 Technical Guidance to identify the Rainfall Region for the site.

2.0 Calculate Percentage of Impervious Surface for Drainage Management Area (DMA)

2.1 Name of DMA: 1

For items 2.2 and 2.3, enter the areas in square feet for each type of surface within the DMA.

Type of Surface	Area of surface type within DMA (Sq. Ft.)	Adjust Previous Surface	Effective Impervious Area
2.2 Impervious surface	2,387	1.0	2,387
2.3 Pervious surface	106	0.1	11
Total DMA Area (square feet) =		2,493	
2.4 Total Effective Impervious Area (EIA)		2,398	Square feet

3.0 Calculate Unit Basin Storage Volume in Inches

Table 5-3. Unit Basin Storage Volumes in Inches for 80 Percent Capture Using 48-Hour Drawdowns, based on runoff coefficient

Region	Station, and Mean Annual Precipitation (Inches)	Runoff Coefficient of 1.0
1	Boulder Creek, 35.3"	0.04
2	La Honda, 34.9"	0.08
3	Half Moon Bay, 25.92"	0.02
4	Palo Alto, 34.6"	0.04
5	San Francisco, 21.0"	0.10
6	San Francisco airport, 20.1"	0.09
7	San Francisco Serrano, 38.3"	0.12

3-1 Unit basin storage volume from Table 5-3: 0.85
(The coefficient for this method is always 1.0, due to the conversion of any landscaping to effective impervious area.)

3-2 Adjusted unit basin storage volume: 0.93 Inches
(The unit basin storage volume [Item 3-1] is adjusted by applying the MAP adjustment factor [Item 1-8].)

3-3 Required Capture Volume (in cubic feet): 186 Cubic feet
(The adjusted unit basin storage volume [Item 3-2] is multiplied by the DMA EIA [Item 2-4] and converted to cubic feet.)

4.0 Calculate the Duration of the Rain Event

4-1 Rainfall intensity: 0.2 Inches per hour

4-2 Divide Item 3-2 by Item 4-1: 4.65 Hours of Rain Event Duration

5.0 Preliminary Estimate of Surface Area of Treatment Measure

5-1 4% of DMA EIA (Item 2-4): 99.904 Square feet

5-2 Area 25% smaller than Item 5-1 (i.e., 3% of DMA EIA): 71.928 Square feet

5-3 Volume of treated runoff for area in Item 5-2: 139.41 Cubic feet (Item 5-2 * 5 inches per hour * 1/12 * Item 4-2)

6.0 Initial Adjustment of Depth of Surface Ponding Area

6-1 Subtract Item 5-3 from Item 3-3: 45.47 Cubic feet (Amount of runoff to be stored in ponding area)

6-2 Divide Item 6-1 by Item 5-2: 0.65 Feet (Depth of stored runoff in surface ponding area)

6-3 Convert Item 6-2 from feet to inches: 7.75 Inches (Depth of stored runoff in surface ponding area)

6-4 If ponding depth in Item 6-3 meets your target depth (recommended 6"), skip to Item 8-1. If not, continue to Step 7-1.
(Note: Overflow outlet elevation should be set based on the calculated ponding depth.)

7.0 Optimize Size of Treatment Measure

7-1 Enter an area larger than Item 5-2: 106 Sq.ft. (enter larger area if you need less ponding depth.)

7-2 Volume of treated runoff for area in Item 7-1: 205.45 Cubic feet (Item 7-1 * 5 inches per hour * 1/12 * Item 4-2)

7-3 Subtract Item 7-2 from Item 3-3: -19.57 Cubic feet (Amount of runoff to be stored in ponding area)

7-4 Divide Item 7-3 by Item 7-1: -0.18 Feet (Depth of stored runoff in surface ponding area)

7-5 Convert Item 7-4 from ft. to inches: -2.22 Inches (Depth of stored runoff in surface ponding area)

7-6 If the ponding depth in Item 7-5 meets target, skip Item 7-1 and repeat Steps 7-1 through 7-5 until you obtain target depth.
(Note: Overflow outlet elevation should be set based on the calculated ponding depth.)

8.0 Surface Area of Treatment Measure for DMA

8-1 Final surface area of treatment: 106 Square feet (Either Item 5-2 or final amount in Item 7-3)

Worksheet for Calculating the Combination Flow and Volume Method

Instructions: After completing Section 1, make a copy of this Excel file for each Drainage Management Area within the project. Enter information specific to the project and DMA in the cells shaded in yellow. Cells shaded in light blue contain formulas and values that will be automatically calculated.

1.0 Project Information

1.1 Project Name:	New Multi-Family Units	The calculations presented here are based on the combination flow and volume using method presented in the Countywide Program's C.3 Technical Guidance, Version 5.0 (2018). The steps presented below are explained in Section 5.3 of the Guidance, applicable portions of which are included in this file, in the sheet named "Guidance from Chapter 3".
1.2 City application ID:	PA-2023-071	
1.3 Site Address or APN:	328 Tilton Ave, San Mateo	
1.4 Tract or Parcel Map No:		
1.5 Rainfall Region	6	
1.6 Region Mean Annual Precipitation (MAP)	20.10	Click here for map
1.7 Site Mean Annual Precipitation (MAP)	22	

1.8 MAP adjustment factor is automatically calculated as: 1.09
(The "Site Mean Annual Precipitation (MAP)" is divided by the MAP for the applicable rain gauge, shown in Table 5-3, below.)
Refer to the map in Appendix C of the C.3 Technical Guidance to identify the Rainfall Region for the site.

2.0 Calculate Percentage of Impervious Surface for Drainage Management Area (DMA)

2.1 Name of DMA: 2

For Items 2.2 and 2.3, enter the areas in square feet for each type of surface within the DMA.

Type of Surface	Area of surface type within DMA (Sq. Ft.)	Adjust Previous Surface	Effective Impervious Area
2.2 Impervious surface	1,811	1.0	1,811
2.3 Pervious surface	109	0.1	11
Total DMA Area (square feet) =		1,920	
2.4 Total Effective Impervious Area (EIA)		1,822	Square feet

3.0 Calculate Unit Basin Storage Volume in Inches

Table 5-3. Unit Basin Storage Volumes in Inches for 80 Percent Capture Using 48-Hour Drawdowns, based on runoff coefficient

Region	Station, and Mean Annual Precipitation (Inches)	Runoff Coefficient of 1.0
1	Boulder Creek, 35.3"	0.04
2	La Honda, 34.9"	0.08
3	Half Moon Bay, 25.92"	0.02
4	Palo Alto, 34.6"	0.04
5	San Francisco, 21.0"	0.10
6	San Francisco airport, 20.1"	0.09
7	San Francisco Serrano, 38.3"	0.12

3-1 Unit basin storage volume from Table 5-3: 0.85
(The coefficient for this method is always 1.0, due to the conversion of any landscaping to effective impervious area.)

3-2 Adjusted unit basin storage volume: 0.93 Inches
(The unit basin storage volume [Item 3-1] is adjusted by applying the MAP adjustment factor [Item 1-8].)

3-3 Required Capture Volume (in cubic feet): 141 Cubic feet
(The adjusted unit basin storage volume [Item 3-2] is multiplied by the DMA EIA [Item 2-4] and converted to cubic feet.)

4.0 Calculate the Duration of the Rain Event

4-1 Rainfall intensity: 0.2 Inches per hour

4-2 Divide Item 3-2 by Item 4-1: 4.65 Hours of Rain Event Duration

5.0 Preliminary Estimate of Surface Area of Treatment Measure

5-1 4% of DMA EIA (Item 2-4): 72.876 Square feet

5-2 Area 25% smaller than Item 5-1 (i.e., 3% of DMA EIA): 54.657 Square feet

5-3 Volume of treated runoff for area in Item 5-2: 105.94 Cubic feet (Item 5-2 * 5 inches per hour * 1/12 * Item 4-2)

6.0 Initial Adjustment of Depth of Surface Ponding Area

6-1 Subtract Item 5-3 from Item 3-3: 35.31 Cubic feet (Amount of runoff to be stored in ponding area)

6-2 Divide Item 6-1 by Item 5-2: 0.65 Feet (Depth of stored runoff in surface ponding area)

6-3 Convert Item 6-2 from feet to inches: 7.75 Inches (Depth of stored runoff in surface ponding area)

6-4 If ponding depth in Item 6-3 meets your target depth (recommended 6"), skip to Item 8-1. If not, continue to Step 7-1.
(Note: Overflow outlet elevation should be set based on the calculated ponding depth.)

7.0 Optimize Size of Treatment Measure

7-1 Enter an area larger than Item 5-2: 75 Sq.ft. (enter larger area if you need less ponding depth.)

7-2 Volume of treated runoff for area in Item 7-1: 145.37 Cubic feet (Item 7-1 * 5 inches per hour * 1/12 * Item 4-2)

7-3 Subtract Item 7-2 from Item 3-3: -4.12 Cubic feet (Amount of runoff to be stored in ponding area)

7-4 Divide Item 7-3 by Item 7-1: -0.05 Feet (Depth of stored runoff in surface ponding area)

7-5 Convert Item 7-4 from ft. to inches: -0.66 Inches (Depth of stored runoff in surface ponding area)

7-6 If the ponding depth in Item 7-5 meets target, skip Item 7-1 and repeat Steps 7-1 through 7-5 until you obtain target depth.
(Note: Overflow outlet elevation should be set based on the calculated ponding depth.)

8.0 Surface Area of Treatment Measure for DMA

8-1 Final surface area of treatment: 75 Square feet (Either Item 5-2 or final amount in Item 7-3)

Worksheet for Calculating the Combination Flow and Volume Method

Instructions: After completing Section 1, make a copy of this Excel file for each Drainage Management Area within the project. Enter information specific to the project and DMA in the cells shaded in yellow. Cells shaded in light blue contain formulas and values that will be automatically calculated.

1.0 Project Information

1.1 Project Name:	New Multi-Family Units	The calculations presented here are based on the combination flow and volume using method presented in the Countywide Program's C.3 Technical Guidance, Version 5.0 (2018). The steps presented below are explained in Section 5.3 of the Guidance, applicable portions of which are included in this file, in the sheet named "Guidance from Chapter 3".
1.2 City application ID:	PA-2023-071	
1.3 Site Address or APN:	328 Tilton Ave, San Mateo	
1.4 Tract or Parcel Map No:		
1.5 Rainfall Region	6	
1.6 Region Mean Annual Precipitation (MAP)	20.10	Click here for map
1.7 Site Mean Annual Precipitation (MAP)	22	

1.8 MAP adjustment factor is automatically calculated as: 1.09
(The "Site Mean Annual Precipitation (MAP)" is divided by the MAP for the applicable rain gauge, shown in Table 5-3, below.)
Refer to the map in Appendix C of the C.3 Technical Guidance to identify the Rainfall Region for the site.

2.0 Calculate Percentage of Impervious Surface for Drainage Management Area (DMA)

2.1	Name of DMA:	3		
For Items 2.2 and 2.3, enter the areas in square feet for each type of surface within the DMA.				
	Type of Surface	Area of surface type within DMA (Sq. Ft.)	Adjust Pervious Surface	Effective Impervious Area
2.2	Impervious surface	571	1.0	571
2.3	Pervious surface	616	0.1	62
	Total DMA Area (square feet) =		1,187	
2.4	Total Effective Impervious Area (EIA)		633	Square feet

3.0 Calculate Unit Basin Storage Volume in Inches

Table 5-3. Unit Basin Storage Volumes in Inches for 80 Percent Capture Using 48-Hour Drawdowns, based on runoff coefficient

Region	Station, and Mean Annual Precipitation (Inches)	Runoff Coefficient of 1.0
1	Boulder Creek, 35.3"	0.04
2	La Honda, 34.9"	0.08
3	Half Moon Bay, 25.92"	0.02
4	Palo Alto, 34.6"	0.04
5	San Francisco, 21.0"	0.10
6	San Francisco airport, 20.1"	0.09
7	San Francisco Serrano, 38.3"	0.12

3-1 Unit basin storage volume from Table 5-3: 0.85
(The coefficient for this method is always 1.0, due to the conversion of any landscaping to effective impervious area.)

3-2 Adjusted unit basin storage volume: 0.93 Inches
(The unit basin storage volume [Item 3-1] is adjusted by applying the MAP adjustment factor [Item 1-8].)

3-3 Required Capture Volume (in cubic feet): 49 Cubic feet
(The adjusted unit basin storage volume [Item 3-2] is multiplied by the DMA EIA [Item 2-4] and converted to cubic feet.)

4.0 Calculate the Duration of the Rain Event

4-1 Rainfall intensity: 0.2 Inches per hour

4-2 Divide Item 3-2 by Item 4-1: 4.65 Hours of Rain Event Duration

5.0 Preliminary Estimate of Surface Area of Treatment Measure

5-1 4% of DMA EIA (Item 2-4): 25.304 Square feet

5-2 Area 25% smaller than Item 5-1 (i.e., 3% of DMA EIA): 18.978 Square feet

5-3 Volume of treated runoff for area in Item 5-2: 36.78 Cubic feet (Item 5-2 * 5 inches per hour * 1/12 * Item 4-2)

6.0 Initial Adjustment of Depth of Surface Ponding Area

6-1 Subtract Item 5-3 from Item 3-3: 12.26 Cubic feet (Amount of runoff to be stored in ponding area)

6-2 Divide Item 6-1 by Item 5-2: 0.65 Feet (Depth of stored runoff in surface ponding area)

6-3 Convert Item 6-2 from feet to inches: 7.75 Inches (Depth of stored runoff in surface ponding area)

6-4 If ponding depth in Item 6-3 meets your target depth (recommended 6"), skip to Item 8-1. If not, continue to Step 7-1.
(Note: Overflow outlet elevation should be set based on the calculated ponding depth.)

7.0 Optimize Size of Treatment Measure

7-1 Enter an area larger than Item 5-2: 28 Sq.ft. (enter larger area if you need less ponding depth.)

7-2 Volume of treated runoff for area in Item 7-1: 54.77 Cubic feet (Item 7-1 * 5 inches per hour * 1/12 * Item 4-2)

7-3 Subtract Item 7-2 from Item 3-3: -5.23 Cubic feet (Amount of runoff to be stored in ponding area)

7-4 Divide Item 7-3 by Item 7-1: -0.19 Feet (Depth of stored runoff in surface ponding area)

7-5 Convert Item 7-4 from ft. to inches: -2.24 Inches (Depth of stored runoff in surface ponding area)

7-6 If the ponding depth in Item 7-5 meets target, skip Item 7-1 and repeat Steps 7-1 through 7-5 until you obtain target depth.
(Note: Overflow outlet elevation should be set based on the calculated ponding depth.)

8.0 Surface Area of Treatment Measure for DMA

8-1 Final surface area of treatment: 28 Square feet (Either Item 5-2 or final amount in Item 7-3)

Worksheet for Calculating the Combination Flow and Volume Method

Instructions: After completing Section 1, make a copy of this Excel file for each Drainage Management Area within the project. Enter information specific to the project and DMA in the cells shaded in yellow. Cells shaded in light blue contain formulas and values that will be automatically calculated.

1.0 Project Information

1.1 Project Name:	New Multi-Family Units	The calculations presented here are based on the combination flow and volume using method presented in the Countywide Program's C.3 Technical Guidance, Version 5.0 (2018). The steps presented below are explained in Section 5.3 of the Guidance, applicable portions of which are included in this file, in the sheet named "Guidance from Chapter 3".
1.2 City application ID:	PA-2023-071	
1.3 Site Address or APN:	328 Tilton Ave, San Mateo	
1.4 Tract or Parcel Map No:		
1.5 Rainfall Region	6	
1.6 Region Mean Annual Precipitation (MAP)	20.10	Click here for map
1.7 Site Mean Annual Precipitation (MAP)	22	

1.8 MAP adjustment factor is automatically calculated as: 1.09
(The "Site Mean Annual Precipitation (MAP)" is divided by the MAP for the applicable rain gauge, shown in Table 5-3, below.)
Refer to the map in Appendix C of the C.3 Technical Guidance to identify the Rainfall Region for the site.

2.0 Calculate Percentage of Impervious Surface for Drainage Management Area (DMA)

2.1 Name of DMA: 4

For Items 2.2 and 2.3, enter the areas in square feet for each type of surface within the DMA.

Type of Surface	Area of surface type within DMA (Sq. Ft.)	Adjust Previous Surface	Effective Impervious Area
2.2 Impervious surface	1,732	1.0	1,732
2.3 Pervious surface	81	0.1	8
Total DMA Area (square feet) =		1,813	
2.4 Total Effective Impervious Area (EIA)		1,740	Square feet

3.0 Calculate Unit Basin Storage Volume in Inches

Table 5-3. Unit Basin Storage Volumes in Inches for 80 Percent Capture Using 48-Hour Drawdowns, based on runoff coefficient

Region	Station, and Mean Annual Precipitation (Inches)	Runoff Coefficient of 1.0
1	Boulder Creek, 35.3"	0.04
2	La Honda, 34.9"	0.08
3	Half Moon Bay, 25.92"	0.02
4	Palo Alto, 34.6"	0.04
5	San Francisco, 21.0"	0.10
6	San Francisco airport, 20.1"	0.09
7	San Francisco Serrano, 38.3"	0.12

3-1 Unit basin storage volume from Table 5-3: 0.85
(The coefficient for this method is always 1.0, due to the conversion of any landscaping to effective impervious area.)

3-2 Adjusted unit basin storage volume: 0.93 Inches
(The unit basin storage volume [Item 3-1] is adjusted by applying the MAP adjustment factor [Item 1-8].)

3-3 Required Capture Volume (in cubic feet): 135 Cubic feet
(The adjusted unit basin storage volume [Item 3-2] is multiplied by the DMA EIA [Item 2-4] and converted to cubic feet.)

4.0 Calculate the Duration of the Rain Event

4-1 Rainfall intensity: 0.2 Inches per hour

4-2 Divide Item 3-2 by Item 4-1: 4.65 Hours of Rain Event Duration

5.0 Preliminary Estimate of Surface Area of Treatment Measure

5-1 4% of DMA EIA (Item 2-4): 69.504 Square feet

5-2 Area 25% smaller than Item 5-1 (i.e., 3% of DMA EIA): 52.203 Square feet

5-3 Volume of treated runoff for area in Item 5-2: 101.18 Cubic feet (Item 5-2 * 5 inches per hour * 1/12 * Item 4-2)

6.0 Initial Adjustment of Depth of Surface Ponding Area

6-1 Subtract Item 5-3 from Item 3-3: 31.73 Cubic feet (Amount of runoff to be stored in ponding area)

6-2 Divide Item 6-1 by Item 5-2: 0.65 Feet (Depth of stored runoff in surface ponding area)

6-3 Convert Item 6-2 from feet to inches: 7.75 Inches (Depth of stored runoff in surface ponding area)

6-4 If ponding depth in Item 6-3 meets your target depth (recommended 6"), skip to Item 8-1. If not, continue to Step 7-1.
(Note: Overflow outlet elevation should be set based on the calculated ponding depth.)

7.0 Optimize Size of Treatment Measure

7-1 Enter an area larger than Item 5-2: 72 Sq.ft. (enter larger area if you need less ponding depth.)

7-2 Volume of treated runoff for area in Item 7-1: 139.55 Cubic feet (Item 7-1 * 5 inches per hour * 1/12 * Item 4-2)

7-3 Subtract Item 7-2 from Item 3-3: -4.54 Cubic feet (Amount of runoff to be stored in ponding area)

7-4 Divide Item 7-3 by Item 7-1: -0.06 Feet (Depth of stored runoff in surface ponding area)

7-5 Convert Item 7-4 from ft. to inches: -0.77 Inches (Depth of stored runoff in surface ponding area)

7-6 If the ponding depth in Item 7-5 meets target, skip Item 7-1 and repeat Steps 7-1 through 7-5 until you obtain target depth.
(Note: Overflow outlet elevation should be set based on the calculated ponding depth.)

8.0 Surface Area of Treatment Measure for DMA

8-1 Final surface area of treatment: 72 Square feet (Either Item 5-2 or final amount in Item 7-3)

Combination Flow and Volume

1

August 2017

Combination Flow and Volume

1

August 2017

Combination Flow and Volume

1

August 2017

Combination Flow and Volume

1

August 2017

PRELIMINARY
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SCALE

VERTICAL: 1"= AS SHOWN
HORIZONTAL: 1"= AS SHOWN

DATE: 3/21/24

DESIGNED: HCL

DRAWN: BL

REVIEWED: HCL

JOB NO.: 20230022

SHEET

C2.1

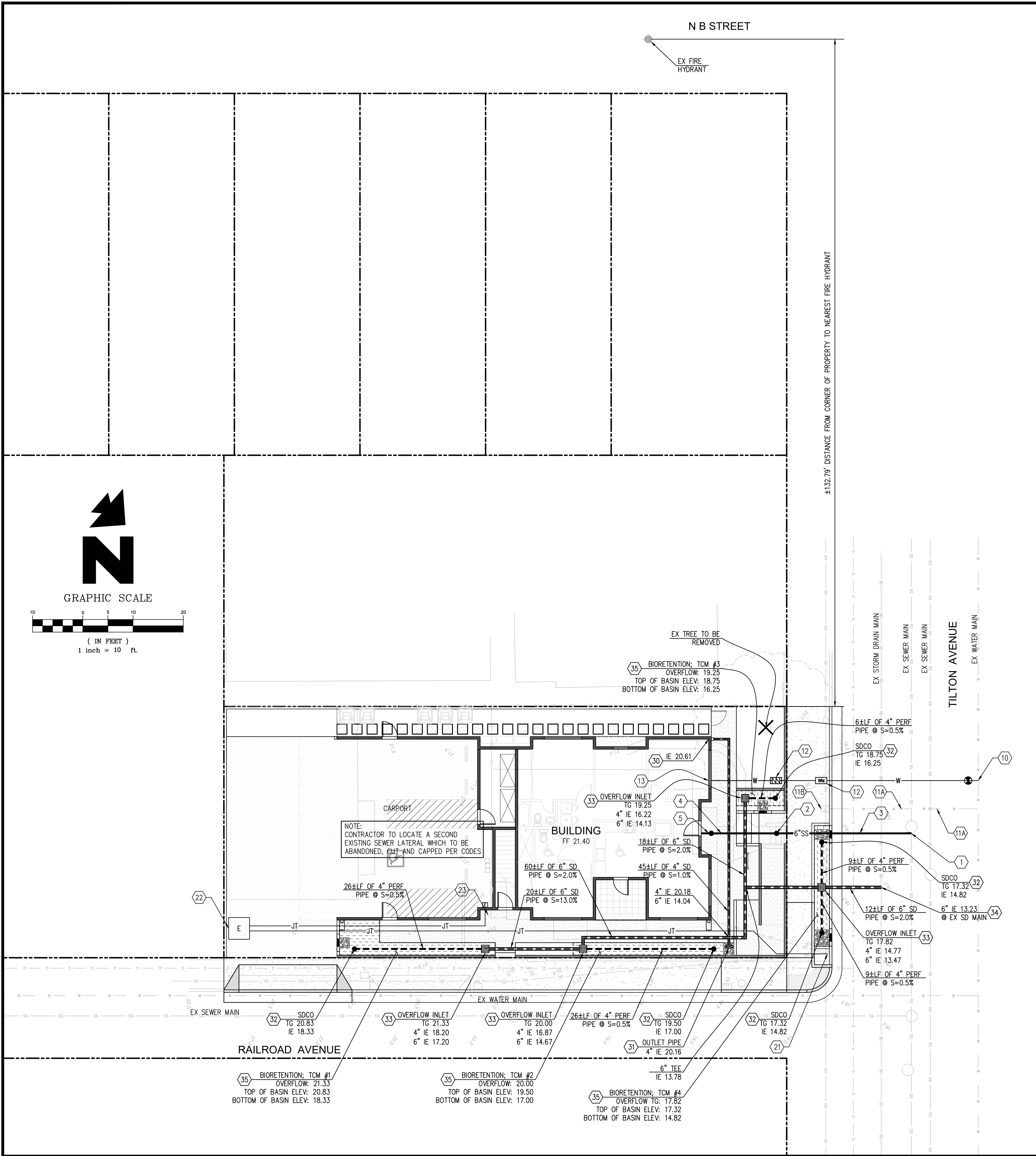
3 OF 4 SHEETS

REV. DATE DESCRIPTION

3/25/24 REVISION PER PLANNING COMMENTS, 12/1/23

8/2/24 REVISION PER PLANNING COMMENTS, 4/24/24

11/20/24 REVISION PER PLAN CHECK COMMENTS



GENERAL NOTES:

- IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
- CONTRACTOR SHALL PROTECT ALL PROPERTY CORNERS.
- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.
- CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
- CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDING FOR ALL NATURAL AND PAVED AREAS.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN GENERAL N.P.D.E.S. PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
- UTILITY VAULTS, TRANSFORMERS, UTILITY CABINETS, CONCRETE BASES, OR OTHER STRUCTURES CANNOT BE PLACED OVER WATER MAINS/SERVICES. MAINTAIN 1' HORIZONTAL CLEAR SEPARATION FROM THE VAULTS, CABINETS & CONCRETE BASES TO EXISTING UTILITIES AS FOUND IN THE FIELD. IF THERE IS CONFLICT WITH EXISTING UTILITIES, CABINETS, VAULTS & BASES SHALL BE RELOCATED FROM THE PLAN LOCATION AS NEEDED TO MEET FIELD CONDITIONS. TREES MAY NOT BE PLANTED WITHIN 10' OF EXISTING WATER MAINS/SERVICES OR METERS. MAINTAIN 10' BETWEEN TREES AND WATER SERVICES, MAINS & METERS.
- CONTRACTOR SHALL REFER TO ARCH. PLANS FOR EXACT LOCATIONS OF UTILITIES SERVICES TO NEW BUILDING. COORDINATE WITH LOCAL UTILITIES COMPANIES FOR SERVICE CONNECTIONS.
- PROVIDE MINIMUM 2% SLOPE AT IMPERVIOUS AREA ADJACENT TO BUILDING & MINIMUM 5% SLOPE AT PERVIOUS AREA ADJACENT TO BUILDING.
- GROUND COVER IS PROVIDED IN AREAS WHERE THERE IS EXPOSED SOIL.
- UTILITIES SHOWN ON THIS PLAN ARE NOT REVIEWED NOR APPROVED BY PUBLIC WORKS.

LEGEND

---	PROPERTY LINE	[Pattern]	REGULAR DUTY ASPHALT PAVEMENT
---	EXISTING EASEMENT	[Pattern]	PATIO/PORCH PER ARCH. PLANS
---	STORM DRAIN PIPE	[Pattern]	CONCRETE HARDSCAPE PER ARCH. PLANS
---	6"SS	[Pattern]	PUBLIC CONCRETE SIDEWALK
---	4" SANITARY SEWER PIPE	[Pattern]	TRUNCATED DOMES
---	DOMESTIC WATER LINE	[Pattern]	ENERGY DISSIPATOR
---	GAS LINE	[Pattern]	BIORETENTION
---	JOINT TRENCH	[Pattern]	WATER METER
---	EX STORM DRAIN MAIN	[Pattern]	DOWNSPOUT WITH SPLASH BLOCK
---	EX SANITARY SEWER MAIN	[Pattern]	CLEANOUT
---	EX WATER MAIN	[Pattern]	WATER VALVE
---	4" PERFORATED PIPE	[Pattern]	BACKFLOW PREVENTOR
---	18" WIDE CURB OPENING	[Pattern]	
---	STORM DRAIN INLET	[Pattern]	
---	ELECTRICAL VAULT	[Pattern]	
---	EX TREE TO BE REMOVED	[Pattern]	

ABBREVIATIONS:

BC = BOTTOM OF CURB	FG = FINISHED GRADE	S = SLOPE
BOW = BACK OF SIDEWALK	FL = FLOWLINE	SD = STORM DRAIN
BW = BOTTOM OF WALL	G = GARAGE	TC = TOP OF CURB
C = CONCRETE	GB = GRADE BREAK	TG = TOP OF GRADE
EG = EXISTING GRADE/GROUND	IE = INVERT ELEVATION	TP = TOP OF PAVEMENT
EX = EXISTING	LF = LINEAL FEET	TW = TOP OF WALL
FF = FINISHED FLOOR	P = PORCH/PATIO	TYP = TYPICAL

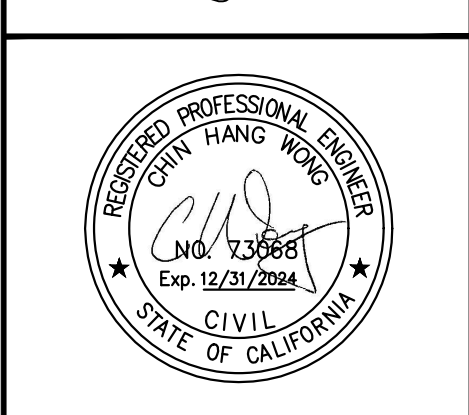
UTILITY NOTES

- CONNECT NEW 6" SEWER LATERAL TO EXISTING SANITARY SEWER MAIN. MATCH EXISTING INVERT ELEVATION
- INSTALL SANITARY SEWER CLEANOUT WITHIN 5' OF PROPERTY LINE.
- REMOVE EXISTING SEWER LATERAL AND REPLACE WITH NEW 6" SANITARY SEWER LATERAL TO NEW BUILDING @ 2% SLOPE MINIMUM
- SANITARY SEWER CLEANOUT AT 2' OUTSIDE OF BUILDING
- SANITARY SEWER SERVICE ENTRY TO BUILDING. SEE ARCH PLANS FOR EXACT LOCATION AND LINE CONTINUATION TO BUILDING
- CONNECT NEW WATER SERVICE LINE TO EXISTING WATER MAIN
- EXISTING WATER SERVICE LINE TO BE ABANDONED OR REMOVAL PER SAN MATEO WATER COMPANY STANDARD
- EXISTING WATER METER TO BE REMOVED BY SAN MATEO WATER COMPANY
- INSTALL NEW WATER METER BY SAN MATEO WATER COMPANY
- DOMESTIC WATER LINE POINT OF ENTRY. SEE PLUMBING PLANS FOR WATER LINE SIZE AND LINE CONTINUATION
- BACKFLOW PREVENTOR: APPLICANT SHALL CONTACT CALWATER AND SHALL PROVIDE, DURING BUILDING REVIEW, PROOF OF APPROVAL FROM CALWATER FOR NEW BACKFLOW DEVICES.
- EXISTING POWER POLE, ELECTRICAL, TELECOMMUNICATION & CABLE TV SERVICE CONNECTIONS. COORDINATE WITH LOCAL UTILITY COMPANIES PRIOR TO BEGINNING OF WORK. SEE JOINT TRENCH COMPOSITE PLANS BY OTHERS
- NEW ELECTRICAL TRANSFORMER. SEE JOINT TRENCH COMPOSITE PLANS BY OTHERS
- JOINT TRENCH (ELECTRICAL, TELECOMMUNICATION AND CABLE TV) SERVICES POINT OF ENTRY. SEE JOINT TRENCH COMPOSITE PLANS BY OTHERS
- RAINLEADER AT DOWNSPOUT
- PIPE OUTFALL WITH "I" END SECTION WITH NDS ATRIUM GRATES TO BIORETENTION;
- STORM DRAIN CLEANOUT
- 18"x18" DROP INLET
- CONNECT TO EXISTING STORM DRAIN MAIN. MATCH EXISTING INVERT ELEVATION
- BIORETENTION BASIN WITH LINER

REV.	DATE	DESCRIPTION
1	3/25/24	REVISION PER PLANNING COMMENTS, 12/1/23
2	8/2/24	REVISION PER PLANNING COMMENTS, 4/24/24
3	11/20/24	REVISION PER PLAN CHECK COMMENTS

PRELIMINARY
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SCALE	
VERTICAL: 1"= AS SHOWN	
HORIZONTAL: 1"= AS SHOWN	
DATE:	3/21/24
DESIGNED:	HCL
DRAWN:	BL
REVIEWED:	HCL
JOB NO.:	20230022
SHEET C3	
4 OF 4 SHEETS	