

MARC DIGIACOMO
ARCHITECT, LEED AP
3110 Fernside Blvd.
Alameda, CA 94501
Cell (415) 334-7516



24997 O'NEIL AVE
HAYWARD, CA 94554

PLANNING SUBMITTAL	3-28-19
PLANNING REVISION 1	11-14-19
PLANNING REVISION 2	5-7-20

A1

24997 O'NEIL AVENUE
HAYWARD, CA 94554

PROJECT DESCRIPTION:	PLANNING DATA:	BUILDING DATA:	DWELLING UNITS:	SHEET INDEX:	VICINITY MAP:
NEW MULTIFAMILY BUILDING 3 STORIES 9 UNITS 9 PARKING SPACES	APN 444-57-6 BLOCK 57, LOT 6 ZONING: MB-T4-1 URBAN GENERAL ZONE THOROUGHFARE DESIGNATION: ST-50-34-BR	3 STORIES OCCUPANCY GROUP R-2	9 DWELLING UNITS	A1 COVER SHEET -- SURVEY C0.0 CIVIL COVER SHEET C1.0 CIVIL SITE PLAN C1.1 CIVIL SIGNING AND STRIPING PLAN C2.0 CIVIL DEMOLITION PLAN C3.0 CIVIL GRADING & DRAINAGE PLAN C3.1 CIVIL EROSION CONTROL PLAN C3.2 CIVIL STORMWATER CONTROL PLAN C4.0 CIVIL UTILITY PLAN C5.0 CIVIL DETAILS L1.1 LANDSCAPE PLANTING PLAN L2.1 LANDSCAPE HYDROZONE PLAN A2 SITE DEMO AND SITE, SITE FENCE & WALL PLAN A3 1ST FLOOR PLAN A4 2ND FLOOR PLAN A5 3RD FLOOR PLAN A6 EXTERIOR ELEVATIONS A7 EXTERIOR ELEVATIONS A8 BUILDING SECTIONS E1.1 ELECTRICAL PHOTOMETRIC PLAN- ONSITE E1.2 ELECTRICAL PHOTOMETRIC PLAN- OFFSITE	
PROJECT TEAM:	LOT AREA: PER SURVEYOR: 11,919 S.F. (0.2736 ACRE) EFFECTIVE LOT AREA (NET OF R/W) 9,199 S.F.	CONSTRUCTION TYPE: V-B WITH TYPE "S" SPRINKLER PER CBC 903.3.1.1 AND CBC 903.2.8	UNIT 1A: 2 BR, 2 BA 848 S.F. NET		
BUILDING OWNER: KUMAR-PUNIA FAMILY TRUST 2127 ARLINGTON WAY, SAN RAMON, CA 94582 (650) 863-3703 pkpunia@hotmail.com	LOT COVERAGE: 2,862 S.F. (80 % MAX = 7,359 S.F.)	GROSS AREAS BY FLOOR: 1ST FLOOR: 2501 S.F. 2ND FLOOR: 2543 S.F. 3RD FLOOR: 2543 S.F. TOTAL: 7587 S.F. GROSS	UNIT 2A AND 3A: 2 BR, 2 BA 868 S.F. NET, EACH		
ARCHITECT: MARC DIGIACOMO ARCHITECT 3110 FERNSIDE BLVD., ALAMEDA, CA 94501 (415) 334-7516 Marc@DiGiacomoArchitect.com	DENSITY: 0.2736 ACRE x 35 UNITS/ ACRE = 9.6 UNITS MAX	APPLICABLE CODES: 2016 CALIFORNIA BUILDING CODE 2016 CALIFORNIA ELECTRICAL CODE 2016 CALIFORNIA MECHANICAL CODE 2016 CALIFORNIA PLUMBING CODE 2016 CALIFORNIA ENERGY CODE 2016 CALIFORNIA FIRE CODE 2016 CALGREEN	UNIT 1B: 1 BR, 1 BA 638 S.F. NET		
LANDSCAPE ARCHITECT: LANDARC ASSOCIATES 1900 S. NORFOLK ST, SUITE 350, SAN MATEO, CA 94403 (408) 361-8085 scottf@landarcassociates.com	COMMON OPEN SPACE REQUIRED: 10% (PER AHP) x 9,199 S.F. = 920 S.F.		UNIT 2B and 3B: 1 BR, 1 BA 679 S.F. NET, EACH		
CIVIL ENGINEER: ACKLAND INTERNATIONAL, INC. 333 HEGENBERGER RD, SUITE 206, OAKLAND, CA 94621 (510) 633-1797 ekundayo.sowunmi@gmail.com	COMMON OPEN SPACE PROVIDED: 1042 S.F. (11 %)		UNITS 1C, 2C, AND 3C: 2 BR, 2 BA 857 S.F. NET, EACH		
	NO CAR PARKING REQUIRED BICYCLE PARKING: 15 BEDROOMS x .15 = 2.3 SPACES 4 BICYCLE SPACES PROVIDED				



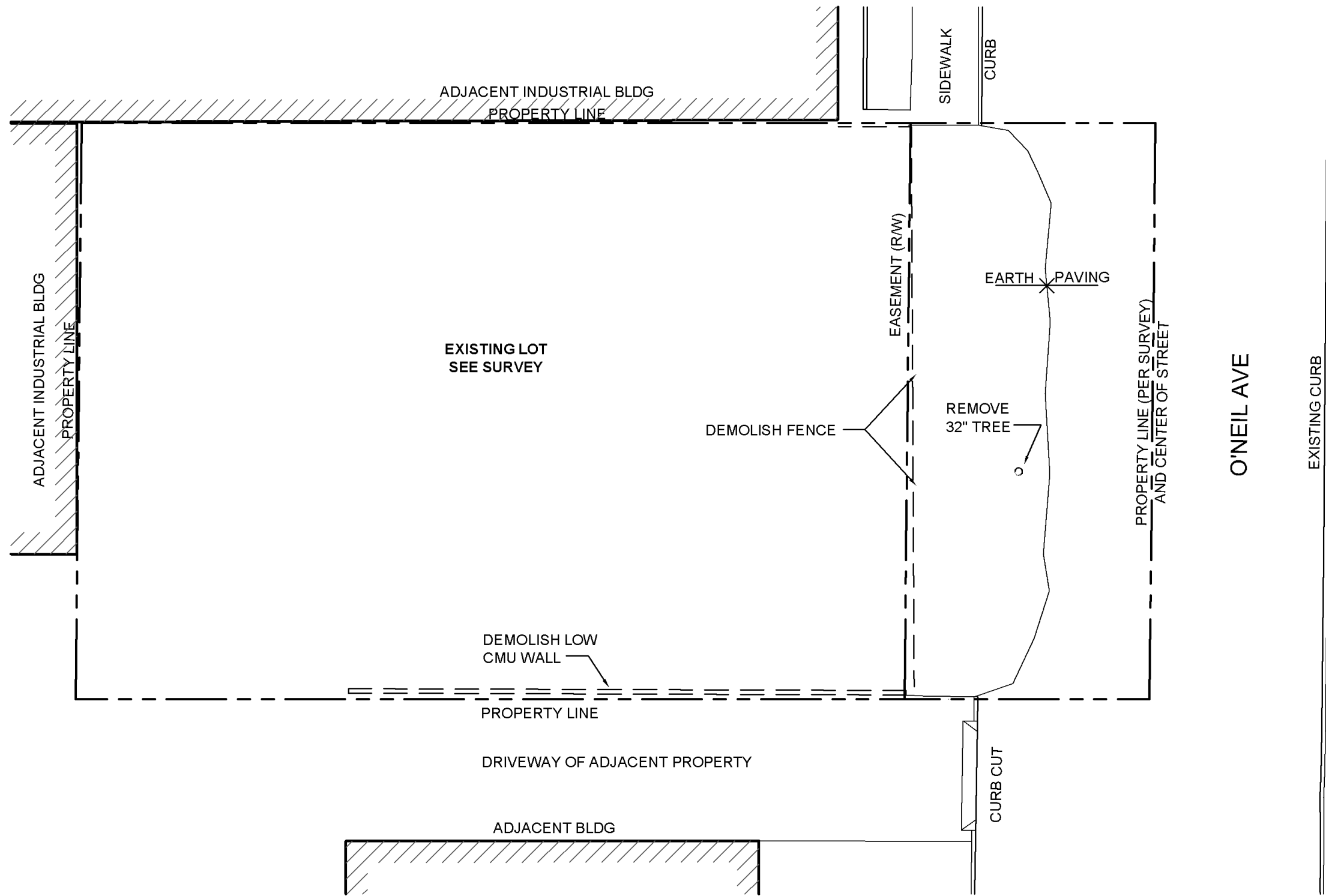
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1 SITE DEMO PLAN
SCALE: 1/16" = 1'-0"

GARAGE CONTAINER CALCULATION

Formula to Determine Minimum Multi-Family Garbage Container Capacity in Cubic Yards (Must Be Included on Site Plan)

9 # of dwelling units x 1.2 (move in/out factor) x 32 (gallons per unit) ÷ 200
= 17.28 CY/Week

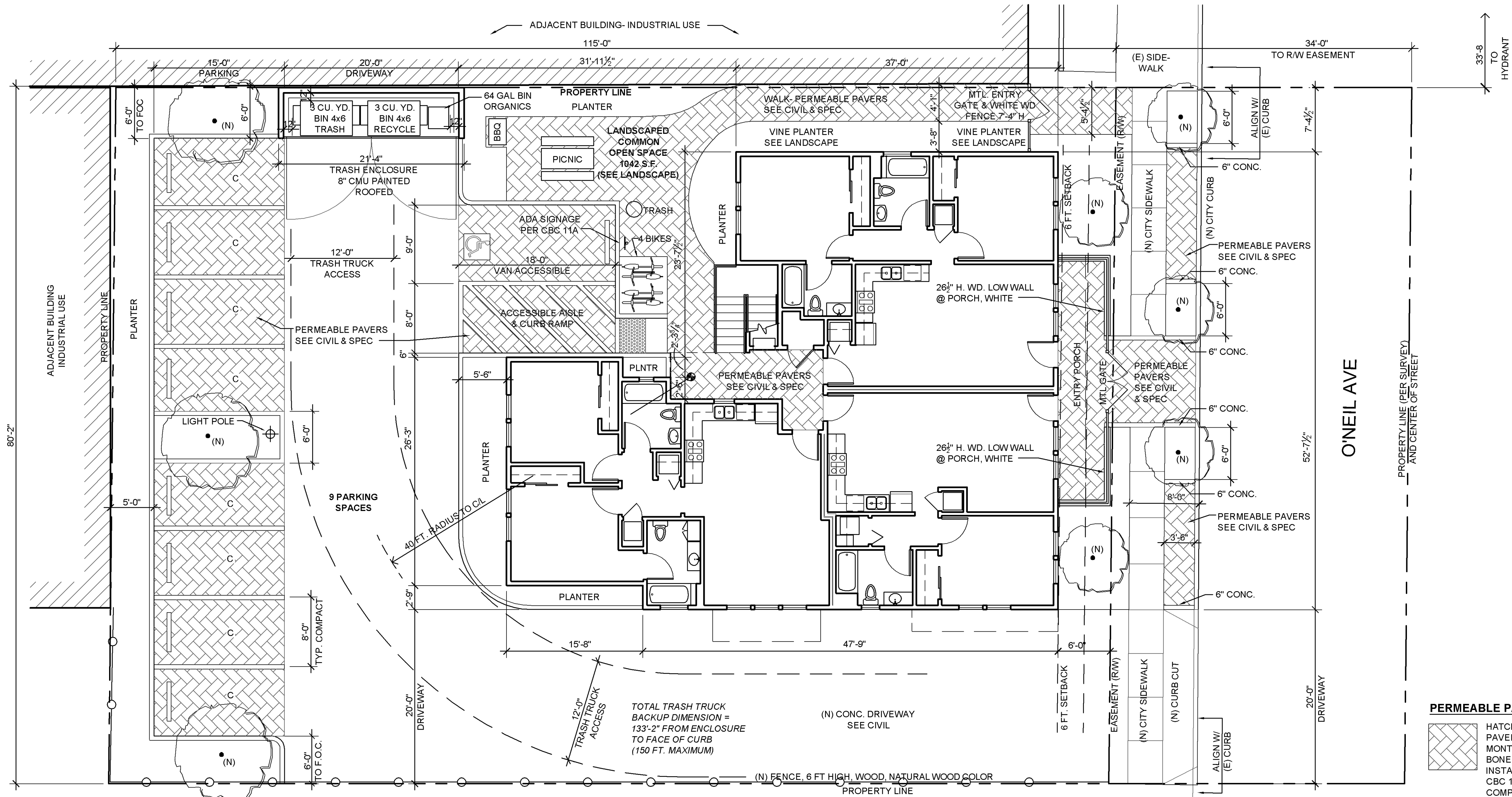
Container Capacity for Recyclables Must be Equivalent to Capacity Allocated to Trash
Trash CY/week calculation from above

17.28 CY/Week of Recyclables

Formula to Determine Minimum Multi-Family Organic Container Capacity in Gallons
9 # of dwelling units x 5 (gallons of organics per unit)

= 45 Gallons/Week of Organics

This formula must be clearly indicated on the site plan to justify the container size(s) and determine enclosure dimensions.



2 SITE PLAN, SITE FENCE & WALL PLAN
SCALE: 1/8" = 1'-0"

PERMEABLE PAVER SPEC

HATCH DENOTES PERMEABLE PAVERS. CASTLEITE BLOCK LLC MONTEREY BLEND IN HERRING-BONE PATTERN. PAVERS MUST BE INSTALLED TO COMPLY WITH CBC 11A FOR ACCESSIBILITY COMPLIANCE

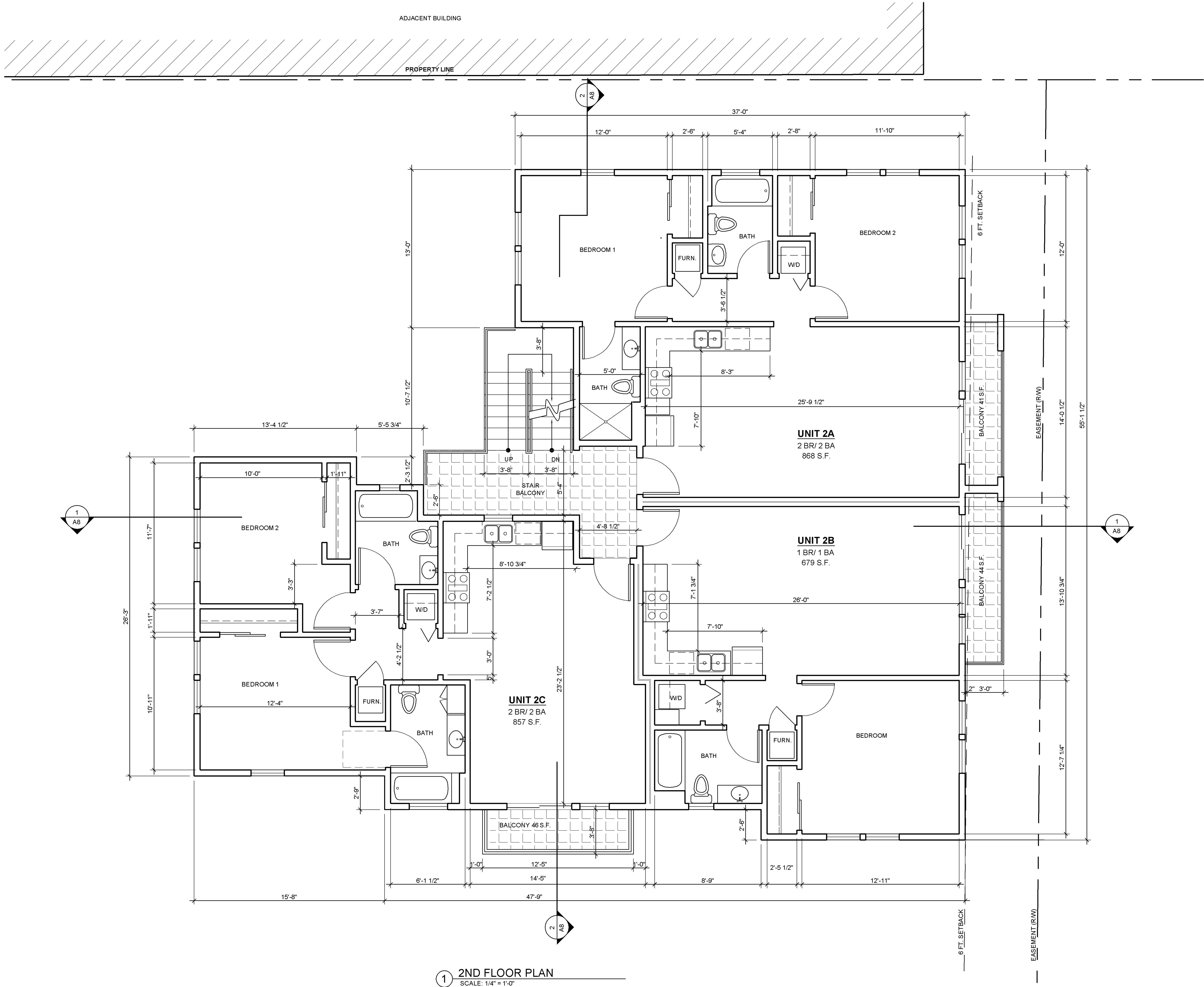
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1 2ND FLOOR PLAN
SCALE: 1/4" = 1'-0"

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A6



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



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

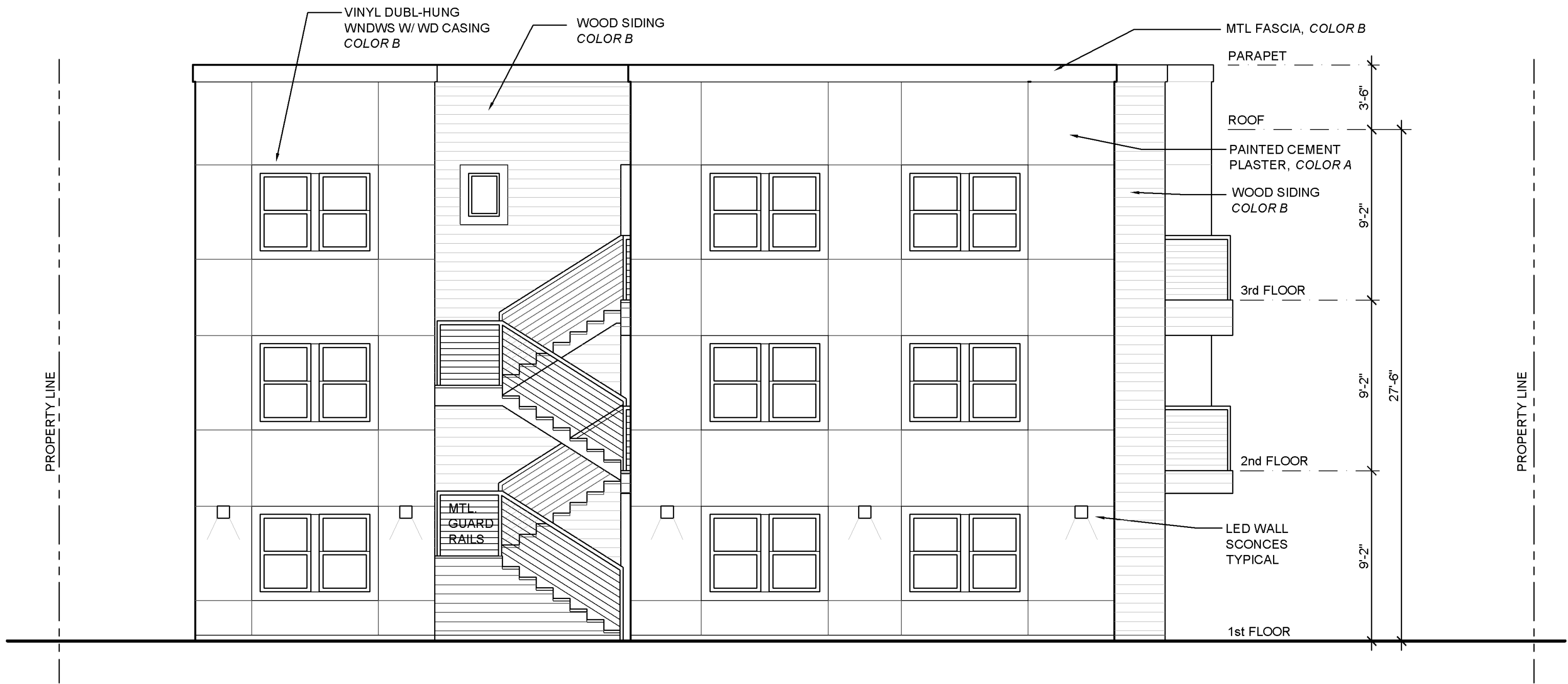
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A7



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



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

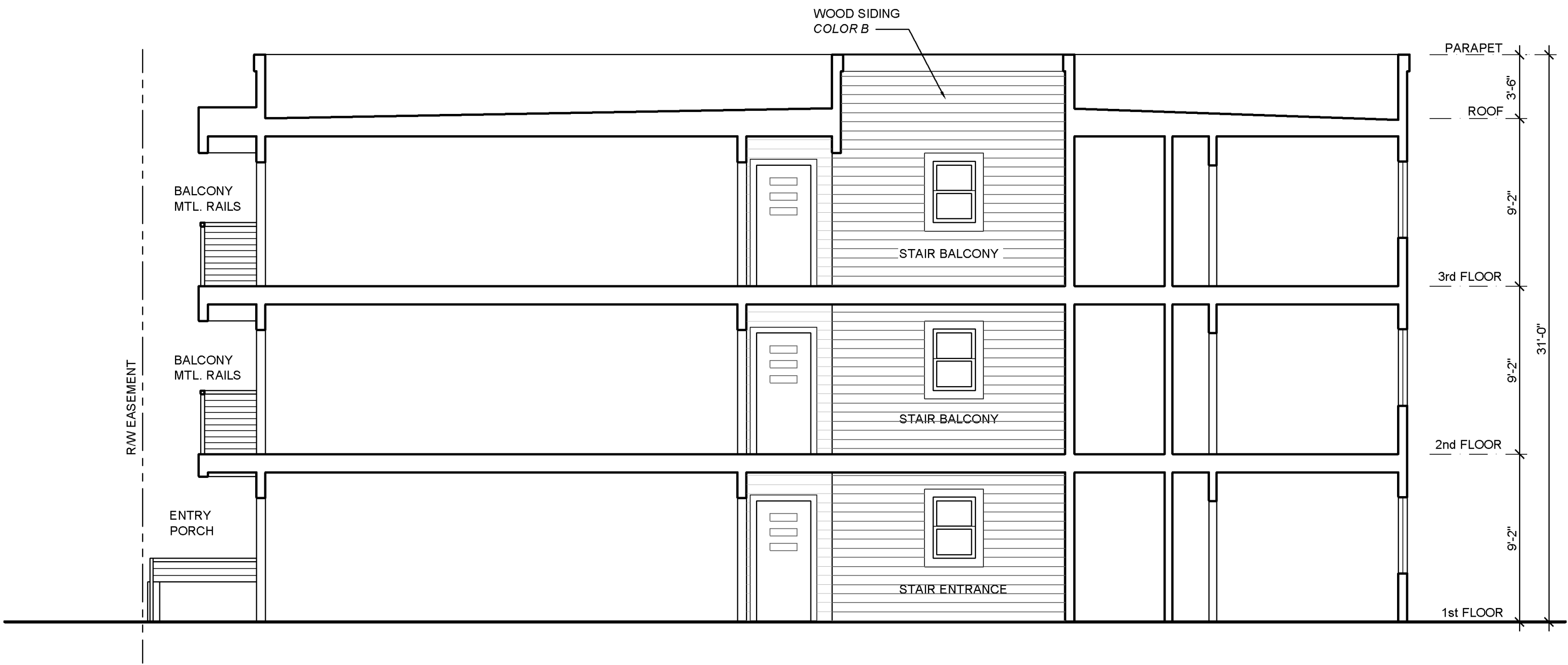
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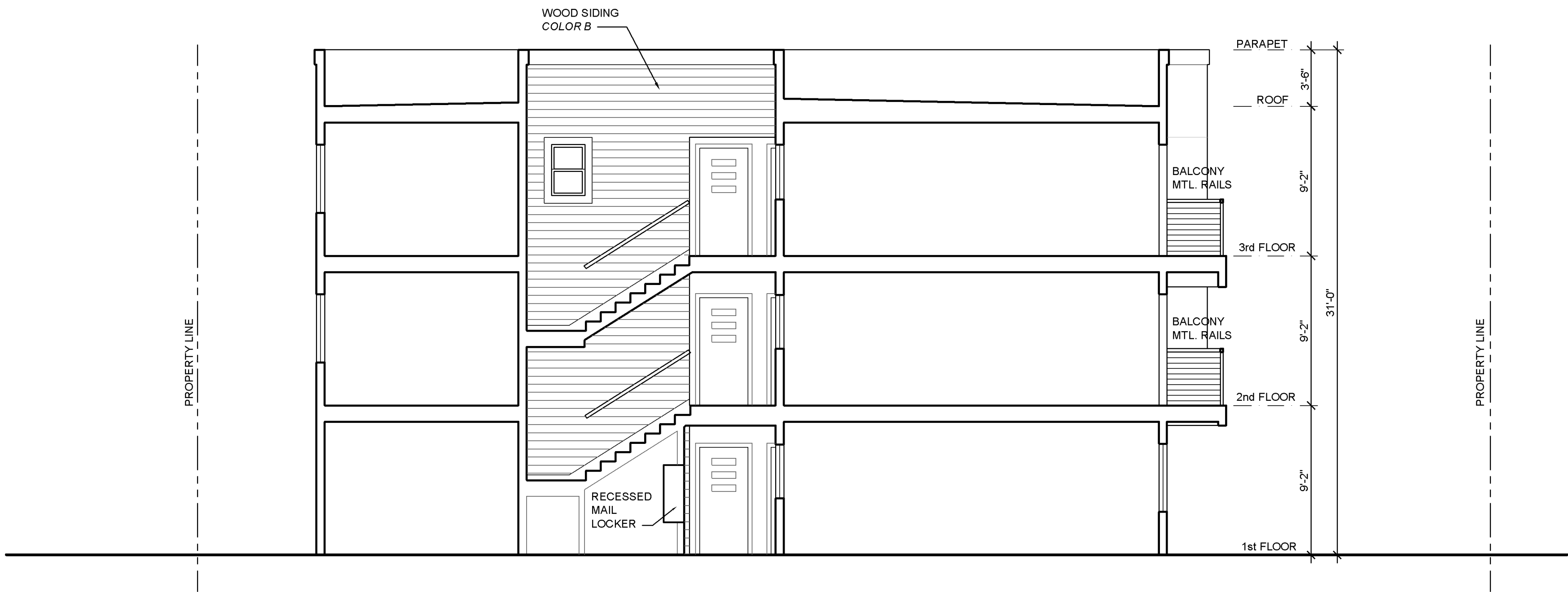
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A8



1 EAST-WEST BUILDING SECTION
SCALE: 3/16" = 1'-0"



2 NORTH-SOUTH BUILDING SECTION
SCALE: 3/16" = 1'-0"

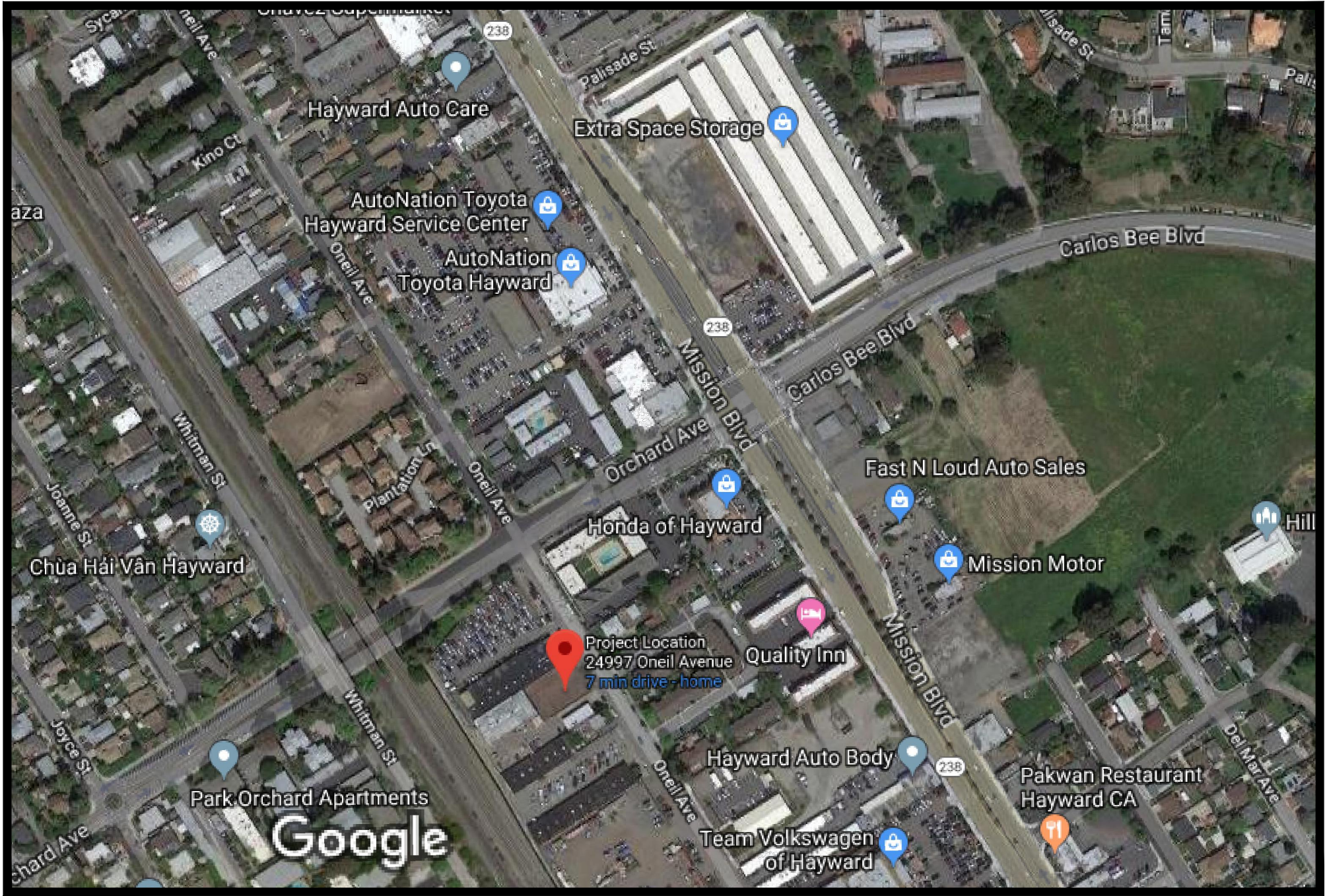
GENERAL NOTES

1. EXCEPT AS OTHERWISE SPECIFIED ON THESE PLANS, ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND STANDARD DETAILS OF THE CITY OF HAYWARD AND OTHER APPLICABLE CODES.
2. CONTRACTOR SHALL VERIFY ELEVATIONS, DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD. EXISTING SURFACE UTILITIES AS SHOWN WERE LOCATED BY FIELD SURVEYS CONDUCTED FOR THE PROJECT.
3. ELEVATIONS ARE BASED ON CITY OF HAYWARD DATUM.
4. ALL GRADING AND EARTHWORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CALIFORNIA BUILDING CODE AND/OR THE CITY OF HAYWARD, AS APPLICABLE. SPECIAL INSPECTION IS REQUIRED FOR FOOTING EXCAVATION, IN ORDER TO IDENTIFY LOCATIONS OF SOFT OR UNSUITABLE MATERIAL WHERE OVER-EXCAVATION OR RE-COMPACTION OF SOIL MAY BE NEEDED.
5. CONTRACTOR SHALL SLOPE HARDSCAPE SURFACES AT A GRADIENT OF AT LEAST 2 PERCENT AND LANDSCAPE SURFACES AT A GRADIENT OF 5 PERCENT AWAY FROM THE PERIMETER OF THE RESIDENCE FOR A DISTANCE OF AT LEAST 8 FEET, WHERE POSSIBLE.
6. AT ALL TIMES, CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE. THIS INCLUDES SAFETY OF PERSONS AND PROPERTY AND FOR ALL NECESSARY INDEPENDENT ENGINEERING REVIEWS OF THESE CONDITIONS. THE ENGINEER WILL CONDUCT OCCASIONAL JOB SITE REVIEWS. HOWEVER, THESE JOB SITE REVIEWS SHALL NOT BE CONSTRUED TO INCLUDE THE REVIEW OF CONTRACTOR'S SAFETY MEASURES.
7. CONTRACTOR SHALL MAINTAIN THE STREETS AND ANY OTHER PUBLIC RIGHT-OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION. ANY SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS MUST BE REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT.
8. CONTRACTOR SHALL PROTECT EXISTING FACILITIES TO REMAIN AND SHALL PREVENT DAMAGE TO THESE FACILITIES. ANY DAMAGE TO THESE FACILITIES DURING THE DURATION OF THE CONTRACT SHALL BE REPAIRED OR RESTORED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER TO THE SATISFACTION OF THE OWNER.
9. APPROVALS BY THE CITY OF HAYWARD OR THE OWNER DO NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR THE CORRECTION OF MISTAKES, ERRORS OR OMISSIONS.
10. THE CONTRACTOR SHALL NOTIFY U.S.A., UNDERGROUND SERVICES ALERT, 800-642-2444 48 HOURS PRIOR TO ANY EXCAVATION.
11. EXISTING FACILITIES ARE TO REMAIN UNLESS OTHERWISE INDICATED TO BE REMOVED OR EXCEPT AS MAY BE REQUIRED TO BE REMOVED, MODIFIED AND/OR RESTORED TO PERMIT CONSTRUCTION.
12. ALL UTILITY STRUCTURES TO REMAIN INCLUDING, BUT NOT LIMITED TO MANHOLES, CATCH BASINS, METER BOXES, WATER VALVES, FIRE HYDRANTS, TELEPHONE AND ELECTRIC VAULTS AND PULL BOXES, THAT LIE WITHIN THE PROJECT LIMITS OR AREA AFFECTED BY WORK ON THIS PROJECT SHALL BE ADJUSTED TO GRADE BY THE CONTRACTOR.
13. THE CONTRACTOR, SHALL ACQUIRE AND PAY ALL FEES FOR PERMITS NECESSARY TO ALLOW CONSTRUCTION.
14. CITY OF HAYWARD ENGINEER AND/OR OWNER'S INSPECTOR SHALL HAVE 48-HOUR NOTICE FOR INSPECTION.

IMPROVEMENT PLANS FOR

APARTMENT UNITS

24997 O'NEIL AVENUE, HAYWARD, CA



VICINITY MAP

NOT TO SCALE

ABBREVIATIONS

@	AT	(N)	NEW
BLDG.	BUILDING	N	NORTH
BLKG.	BLOCKING	O.C.	ON CENTER
CB	CEILING	OPNG.	OPENING
CL	CENTER LINE	PR.	PAIR
CO	CLEANOUT	PLYWD.	PLYWOOD
COMPO.	COMPOSITION	(R)	REMOVE
CONC.	CONCRETE	RWL	RAINWATER LEADER
DEMO.	DEMOLITION	REF.	REFERENCE
DIA.	DIAMETER	SAD	SEE ARCHITECTURAL
DN.	DOWN		DRAWINGS
D.S.	DOWN SPOUT	SLD	SEE LANDSCAPE
EA.	EACH		DRAWINGS
(E)	EXISTING	SHT.	SHEET
EQ.	EQUAL	SS	SANITARY SEWER
EXT.	EXTERIOR	SSCO	SANITARY SEWER
FG	FINISH GRADE		CLEANOUT
FIN. FLR	FINISH FLOOR	SD	STORM DRAIN
FL	FLOW LINE	SDCO	STORM DRAIN
FP	FINISH PAVEMENT		CLEANOUT
HDR.	HEADER	TYP.	TYPICAL
HT.	HEIGHT	V.I.F.	VERIFY IN FIELD
MON	MONUMENT	W/	WITH
		WD.	WOOD

SYMBOLS

—————	BOUNDARY LINE
— — —	CENTERLINE
—————	MONUMENT LINE
— — — —	PROPERTY LINE

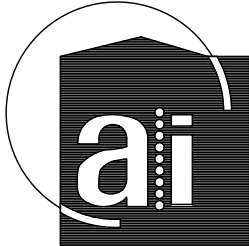
EARTHWORK QUANTITIES

CUT	338 CUBIC YARDS
FILL	0 CUBIC YARDS
EXPORT	TO BE DETERMINED

NOTE: GRADING QUANTITIES REPRESENT BANK YARDAGE. THEY DO NOT INCLUDE ANY SWELLING OR SHRINKAGE FACTORS AND ARE INTENDED TO REPRESENT IN-SITU CONDITIONS. QUANTITIES DO NOT INCLUDE OVER-EXCAVATION, TRENCHING, STRUCTURAL FOUNDATIONS OR PIERS. NOTE THE GEOTECHNICAL ENGINEER IN THE FIELD MAY REQUIRE ADDITIONAL EARTHWORK AT TIME OF CONSTRUCTION. CONTRACTOR SHALL INDEPENDENTLY DETERMINE AND IS RESPONSIBLE FOR THE ACTUAL EARTHWORK QUANTITIES FOR GRADING PERMIT APPLICATION REQUIREMENTS.

SHEET INDEX

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C4.0	UTILITY PLAN
C5.0	MISCELLANEOUS DETAILS
C5.1	MISCELLANEOUS DETAILS



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333 Hegenberger Road
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510.633.2431 (fax)

ENGINEER'S STATEMENT

THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECTION IN CONNECTION WITH THE PROPOSED APARTMENT UNITS FOR PAWAN KUMAR.

BY: *Ekundayo Sowunmi*
EKUNDAYO SOWUNMI, P.E.
RCE 22573 EXP. 12/31/2021



24997 O'NEIL AVE
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PLANNING SUBMITTAL

PROJECT NO.:S17046

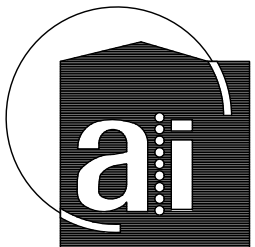
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CHECKED: ES

SCALE: AS SHOWN

DATE: 09-18-19

C0.0



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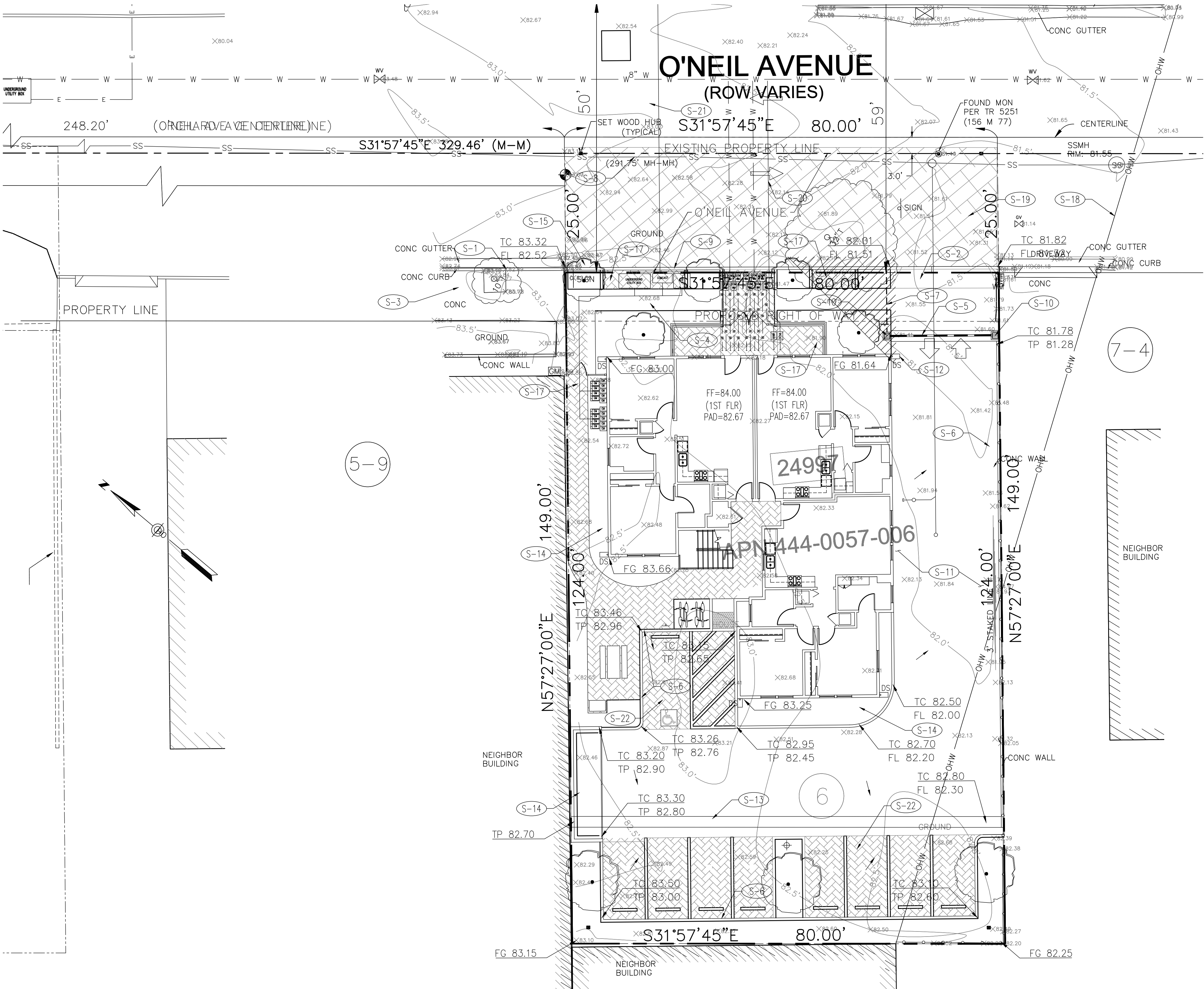
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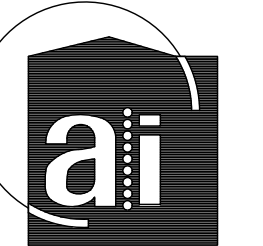
SITE PLAN NOTES

- S-1 (E) CURB AND GUTTER TO REMAIN.
S-2 (N) CONCRETE DRIVEWAY PER CITY OF HAYWARD STANDARD DETAILS.
S-3 (E) CONCRETE SIDEWALK TO REMAIN.
S-4 (N) CONCRETE SIDEWALK PER CITY OF HAYWARD STANDARD DETAILS.
S-5 (N) 4" PERFORATED STORM DRAIN PIPE (HDPE).
S-6 (N) CONCRETE CURB PER DETAIL 2/C5.0.
S-7 (N) SIDEWALK UNDERDRAIN.
S-8 (E) SANITARY SEWER MAIN.
S-9 (N) CONCRETE CURB AND GUTTER PER CITY OF HAYWARD STANDARD DETAIL.
S-10 (N) CATCH BASIN.
S-11 (N) 3" AC PAVEMENT OVER 6" AGGREGATE BASE.
S-12 (N) RAINWATER LEADER WITH SPLASH BLOCK.
S-13 (N) CONCRETE VALLEY GUTTER.
S-14 (N) PLANTER.
S-15 (N) STREET TREES.
S-16 (N) STORM DRAIN CLEANOUT PER DETAIL 5/C5.0.
S-17 (N) PERMEABLE PAVER WALK PER DETAIL 1/C5.0. PAVERS SHALL BE CASTLELITE BLOCK LLC MONTEREY BLEND IN HERRING-BONE PATTERN. PAVERS SHALL BE INSTALLED TO BE ACCESSIBLE PER CBC 11A.
S-18 OVERHEAD LINE TO BE RE-ROUTED.
S-19 (N) ASPHALT CONCRETE PAVEMENT (4" AC OVER 9" AGGREGATE BASE OVER 95% SUBGRADE).
S-20 (N) FIRE WATER.
S-21 (N) JOINT UTILITY TRENCH.
S-22 (N) PERMEABLE PAVER PARKING SPACE. PAVERS SHALL BE CASTLELITE BLOCK LLC MONTEREY BLEND IN HERRING-BONE PATTERN. PAVERS SHALL BE INSTALLED TO BE ACCESSIBLE PER CBC 11A.



SITE PLAN

SCALE: 1" = 10'- 0"



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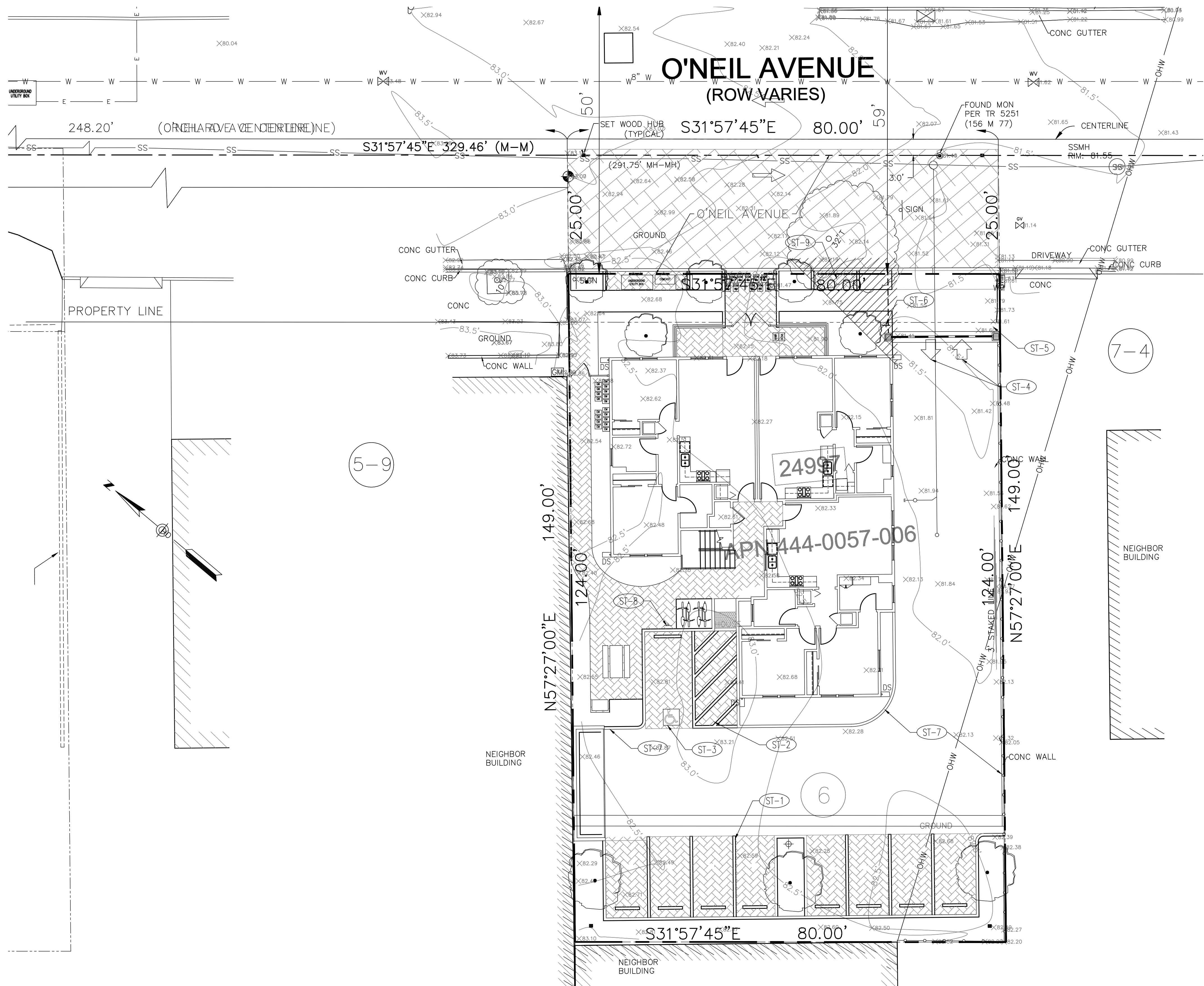
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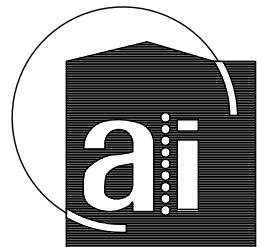
STRIPING AND SIGNAGE NOTES

- ST-1 PAINT 4" WIDE STRIPING.
ST-2 PAINT 4" WIDE DIAGONAL STRIPING.
ST-3 PAINT ADA SYMBOL PAVEMENT MARKING.
ST-4 PAINT 12" WIDE TRAFFIC ARROW.
ST-5 INSTALL CALTRANS R1-1 STOP SIGN.
ST-6 INSTALL PRIVATE DRIVEWAY ENTRANCE SIGN.
ST-7 PAINT CURB RED.
ST-8 INSTALL CALTRANS ADA R99C PARKING SIGN.
ST-9 VISION TRIANGLE. 



SIGNING AND STRIPING PLAN

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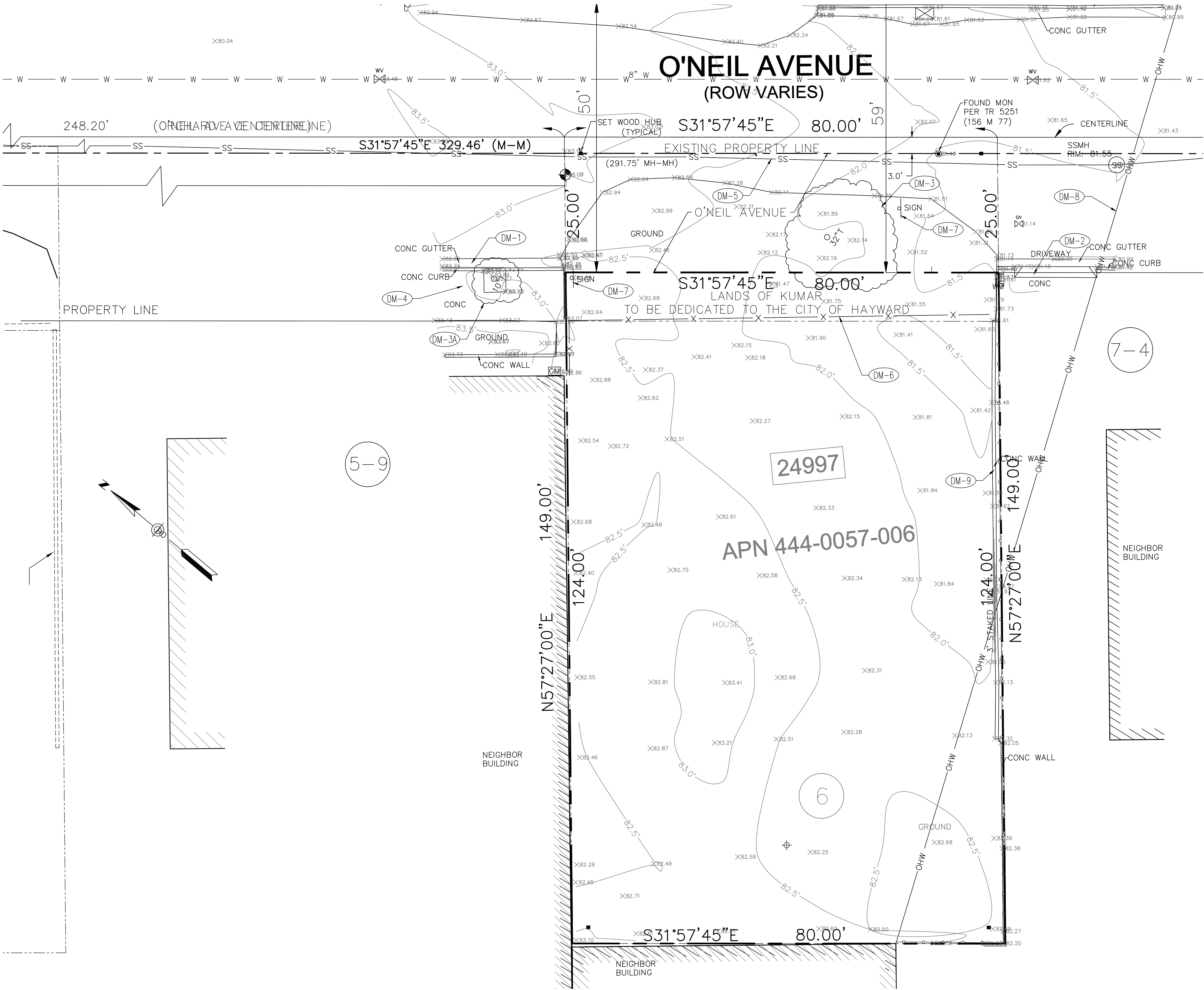
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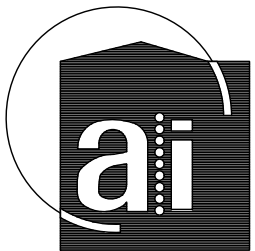
DEMOLITION PLAN NOTES

- DM-1 (E) CONCRETE CURB AND GUTTER TO REMAIN.
- DM-2 (E) CONCRETE DRIVEWAY TO REMAIN.
- DM-3 REMOVE (E) TREE.
- DM-3A (E) TREE TO REMAIN.
- DM-4 (E) CONCRETE SIDEWALK TO REMAIN.
- DM-5 (E) SANITARY SEWER MAIN.
- DM-6 DEMOLISH (E) FENCE.
- DM-7 RELOCATE / REMOVE (E) SIGN.
- DM-8 (E) OVERHEAD LINE TO BE RE-ROUTED BY COMCAST.
- DM-9 REMOVE (E) CONCRETE WALL.



DEMOLITION PLAN

SCALE: 1" = 10'- 0"



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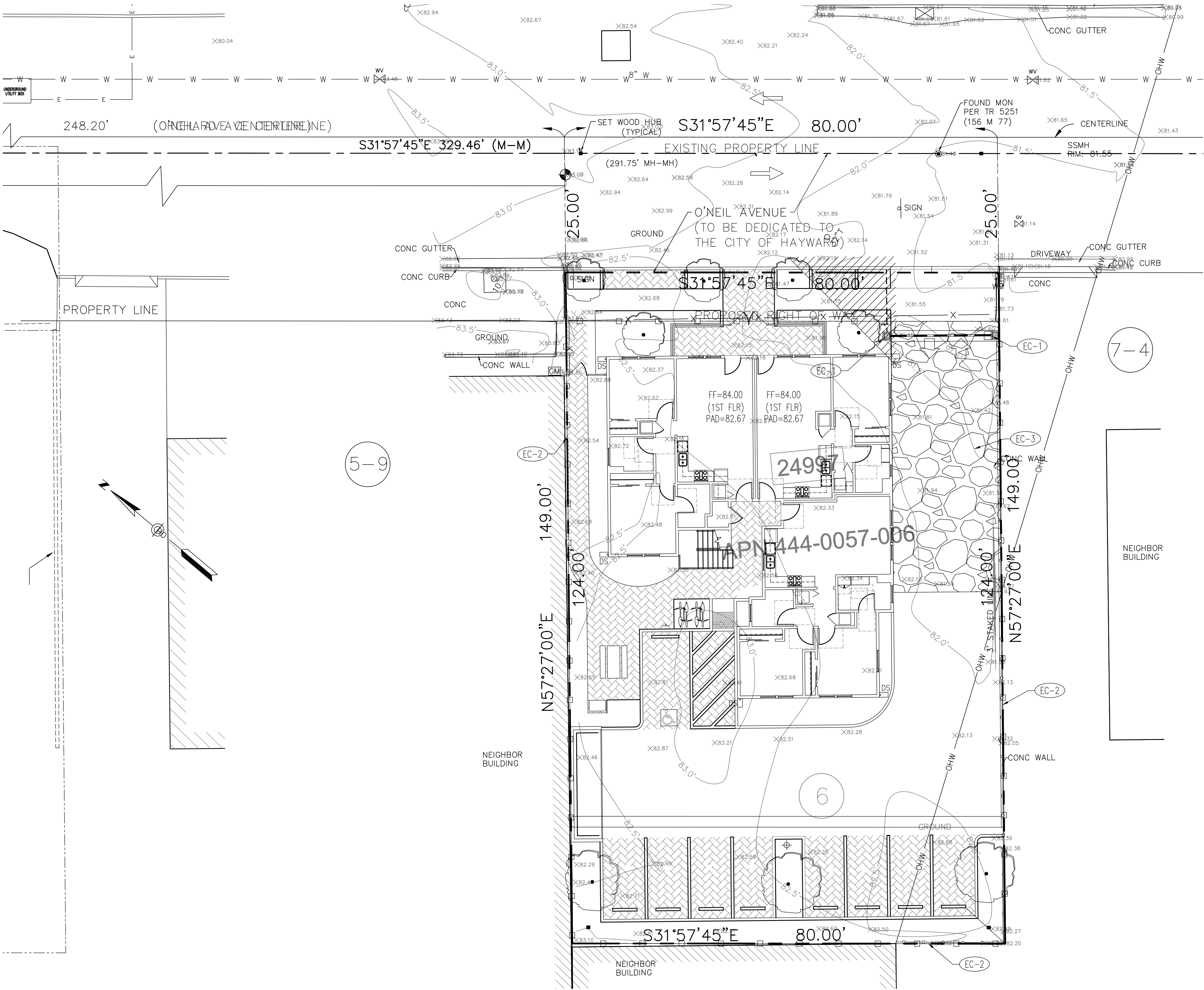
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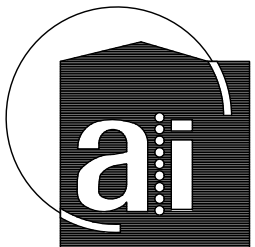
EROSION CONTROL PLAN NOTES

- EC-1 INSTALL DRAINAGE INLET PROTECTION PER CITY STANDARD.
EC-2 INSTALL SILT FENCE PER DETAIL 6/C5.0.
EC-3 CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE PER DETAIL 9/C5.0.



EROSION CONTROL PLAN

SCALE: 1" = 10'- 0"



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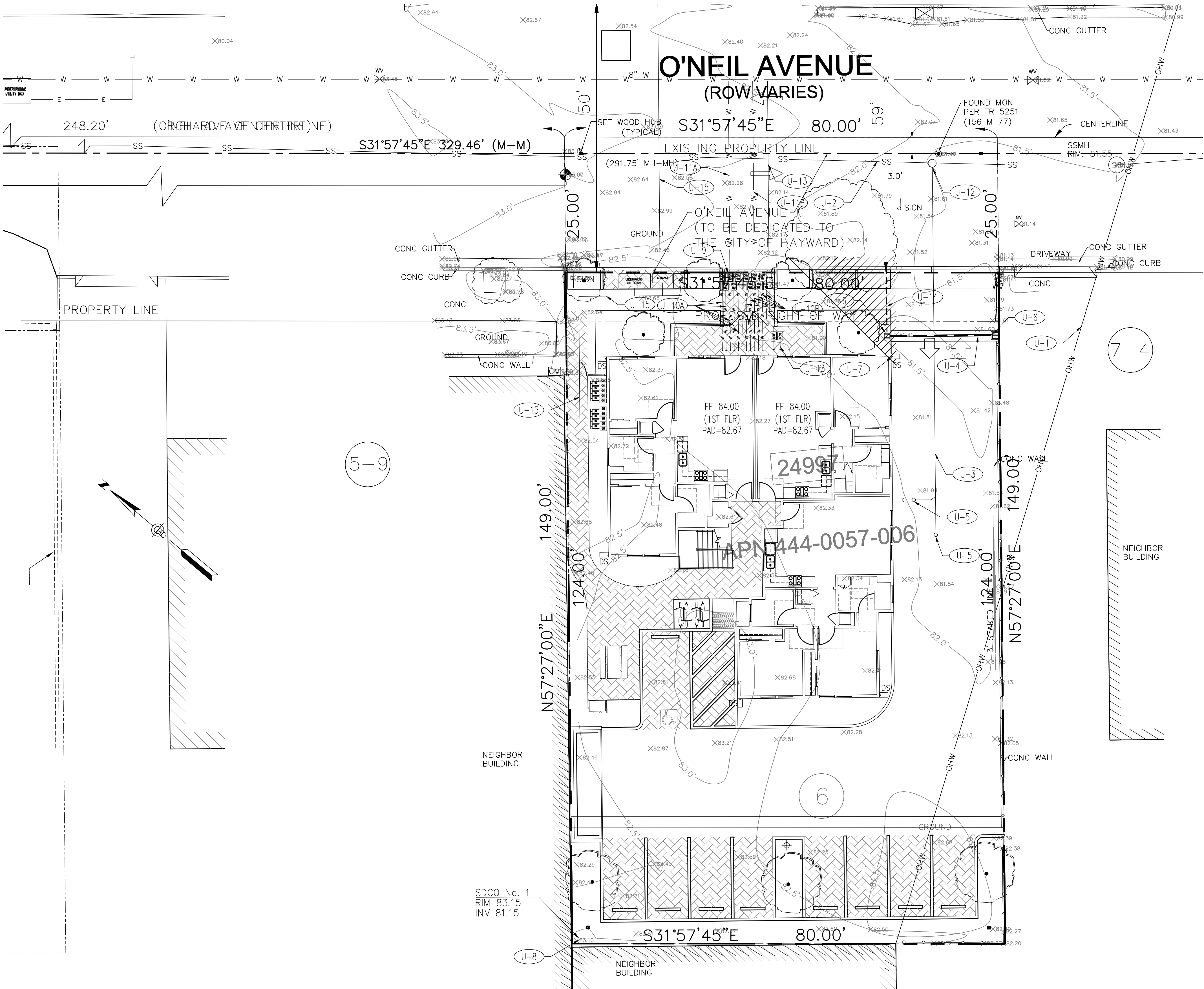
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C4.0

UTILITY PLAN NOTES

- U-1 (E) OVERHEAD LINE TO BE RE-ROUTED BY COMCAST.
U-2 (E) SANITARY SEWER MAIN.
U-3 CONSTRUCT (N) SANITARY SEWER LATERAL.
U-4 (N) STORM DRAIN PIPE (HDPE)
U-5 INSTALL (N) SANITARY SEWER CLEANOUT.
U-6 (N) CATCH BASIN.
U-7 (N) RAINWATER LEADER AND SPLASH BLOCK.
U-8 (N) STORM DRAIN CLEANOUT.
U-9 (N) NINE 5/8" WATER METERS AND ONE 3/4" IRRIGATION WATER METER BY CITY OF HAYWARD.
U-10A INSTALL (N) WATER LINES FOR DOMESTIC WATER AND IRRIGATION WATER.
U-10B INSTALL (N) WATER LINES FOR DOMESTIC WATER.
U-11A (N) 1 1/2" MANIFOLD WATER SERVICE BY CITY OF HAYWARD FOR DOMESTIC WATER SERVICES.
U-11B (N) 2" MANIFOLD WATER SERVICE BY CITY OF HAYWARD FOR DOMESTIC WATER AND IRRIGATION WATER SERVICES.
U-12 CONSTRUCT (N) PRIVATE SEWER LATERAL.
U-13 (N) FIRE WATER SERVICE BY CITY OF HAYWARD PER HAYWARD STANDARDS SD-201 AND SD-204.
U-14 (N) SIDEWALK UNDERDRAIN.
U-15 (N) JOINT UTILITY TRENCH.



UTILITY PLAN

SCALE: 1" = 10'- 0"

PLANT NOTES

1. THESE NOTES ARE FOR GENERAL REFERENCE IN CONJUNCTION WITH, AND AS A SUPPLEMENT TO, THE WRITTEN SPECIFICATIONS, DETAILS, ADDENDA AND CHANGE ORDERS ASSOCIATED WITH THE CONTRACT DOCUMENTS.
2. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION.
3. CONTRACTOR SHALL BECOME FAMILIAR WITH THE LOCATION OF ALL EXISTING AND FUTURE UNDERGROUND SERVICES AND IMPROVEMENTS WHICH MAY CONFLICT WITH WORK TO BE DONE. CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800) 227-2600 PRIOR TO DIGGING. NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD CONFLICTS ARISE.
4. FINE GRADING, HEADERS AND IRRIGATION COVERAGE SHALL BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO PLANTING OPERATIONS.
5. CONTRACTOR SHALL LAY OUT PLANT MATERIAL PER PLAN AND FACE TO GIVE BEST APPEARANCE OR RELATION TO ADJACENT PLANTS, STRUCTURES OR VIEWS. CONTRACTOR TO OBTAIN APPROVAL FROM OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
6. PLANT MATERIAL SHALL NOT BE INSTALLED IN AN AREA WHICH WILL CAUSE HARM TO ADJACENT STRUCTURES OR OBSTRUCT IRRIGATION SPRAY PATTERN. NOTIFY THE OWNER'S REPRESENTATIVE SHOULD CONFLICTS ARISE.
7. PRIOR TO PLANTING INSTALLATION, CONTRACTOR SHALL OBTAIN APPROVAL OF PLANT LAYOUT FROM OWNER'S REPRESENTATIVE. PLANT LOCATIONS ARE DIAGRAMMATIC AND MAY BE ADJUSTED IN THE FIELD AT THE OWNER'S REPRESENTATIVE'S REQUEST.
8. CONTRACTOR SHALL COORDINATE PLANT LOCATION TO DRIP TUBING LOCATION AND ADJUST PLANTING AS NECESSARY TO ACHIEVE BEST RESULT.
9. ALL NON-TURF AREAS SHALL BE MULCHED WITH A MINIMUM 3" LAYER OF BARK MULCH. UNLESS OTHERWISE NOTED, FINISH GRADE OF PLANTING AREAS SHALL BE 3" BELOW ADJACENT PAVING. TAPER 3" DEPTH BARK MULCH TOP DRESSING TO 1/2" BELOW ADJACENT PAVING (1-1/2" DEPTH) WITHIN 2' OF PAVING. CONTRACTOR SHALL SUBMIT A SAMPLE TO THE CITY FOR REVIEW AND APPROVAL PRIOR TO MULCH DELIVERY TO THE SITE. FOR FURTHER INFORMATION, SEE SPECIFICATIONS.
10. GROUND COVERS SHALL BE PLANTED EVENLY AND CONTINUOUSLY UNDER TREE AND SHRUB MASSES.
11. CONTRACTOR SHALL USE A NATURAL PRE-EMERGENT, SUCH AS CORN WEED BLOCKER OR COMPARABLE, AND SHALL APPLY ACCORDING TO THE MANUFACTURER'S DIRECTIONS PRIOR TO APPLYING MULCH.
12. ALL NEWLY PLANTED MATERIAL SHALL BE THOROUGHLY SOAKED WITH WATER WITHIN 3 HOURS OF PLANTING.
13. THIRTY DAYS AFTER PLANTING, CONTRACTOR SHALL RE-STAKE AND STRAIGHTEN TREES AS NEEDED.
14. BENEATH PROPOSED SOD, EXCAVATE EXISTING SOIL TO A DEPTH OF 12" BELOW PROPOSED FINISHED GRADE. REPLACE WITH IMPORTED LOAM SOIL AND BRING TO FINISHED GRADE.
15. THE CONTRACTOR SHALL PROVIDE FOR IN THEIR BID FOR A BASE AMENDMENT FOR SOIL AMENDMENT. AFTER ROUGH GRADING OF THE SITE A SOIL NUTRIENT TEST WILL BE CONDUCTED OF VARIOUS PLANTED AREAS AND THE PLANTER AREAS SHALL BE AMENDED BASED ON THIS SOIL MANAGEMENT REPORT.
16. SEE CIVIL ENGINEERS GRADING PLAN FOR GRADING AND DRAINAGE DESIGN ON THIS PROJECT.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE COMPLIANCE

I AGREE TO COMPLY WITH THE REQUIREMENTS OF THE WATER EFFICIENT LANDSCAPE ORDINANCE AND SUBMIT A COMPLETE LANDSCAPE DOCUMENTATION PACKAGE. TITLE 23 CH. 2.7 SECTION 492.3

SCOTT FORNACIARI
CALIFORNIA REGISTERED LANDSCAPE ARCHITECT #3980

10/19/19
DATE

SITE GRADING NOTE:

LANDSCAPE GRADING FOR THE SITE IS SHOWN ON THE CIVIL ENGINEERING SITE IMPROVEMENT PLAN(S).

LANDSCAPE COEFFICIENT WUCOLS FACTOR:

RATING	SPECIES	* WUCOLS VALUES BASED ON
HIGH	0.7 - 0.9	UNIVERSITY OF CALIFORNIA
MOD. / AV.	0.4 - 0.6	COOPERATIVE EXTENSION DEPT.
LOW	0.1 - 0.3	OF WATER RESOURCES 'A GUIDE
VERY LOW	< 0.1	TO ESTIMATING IRRIGATION WATER
		NEEDS OF LANDSCAPE PLANTINGS
		IN CALIFORNIA'

LANDSCAPE REQUIREMENT
11,920 SF LOT SIZE

LANDSCAPE AREAS SUMMARY - ON SITE
1,440 SF LANDSCAPE PLANTING
THERE IS NO TURF PROPOSED FOR THE PROJECT
LANDSCAPE AREAS SUMMARY - OFF SITE
80 SF LANDSCAPE PLANTING AT PARKING MEDIAN



OUTDOOR CREATIONS MODEL 300

BARBEQUE



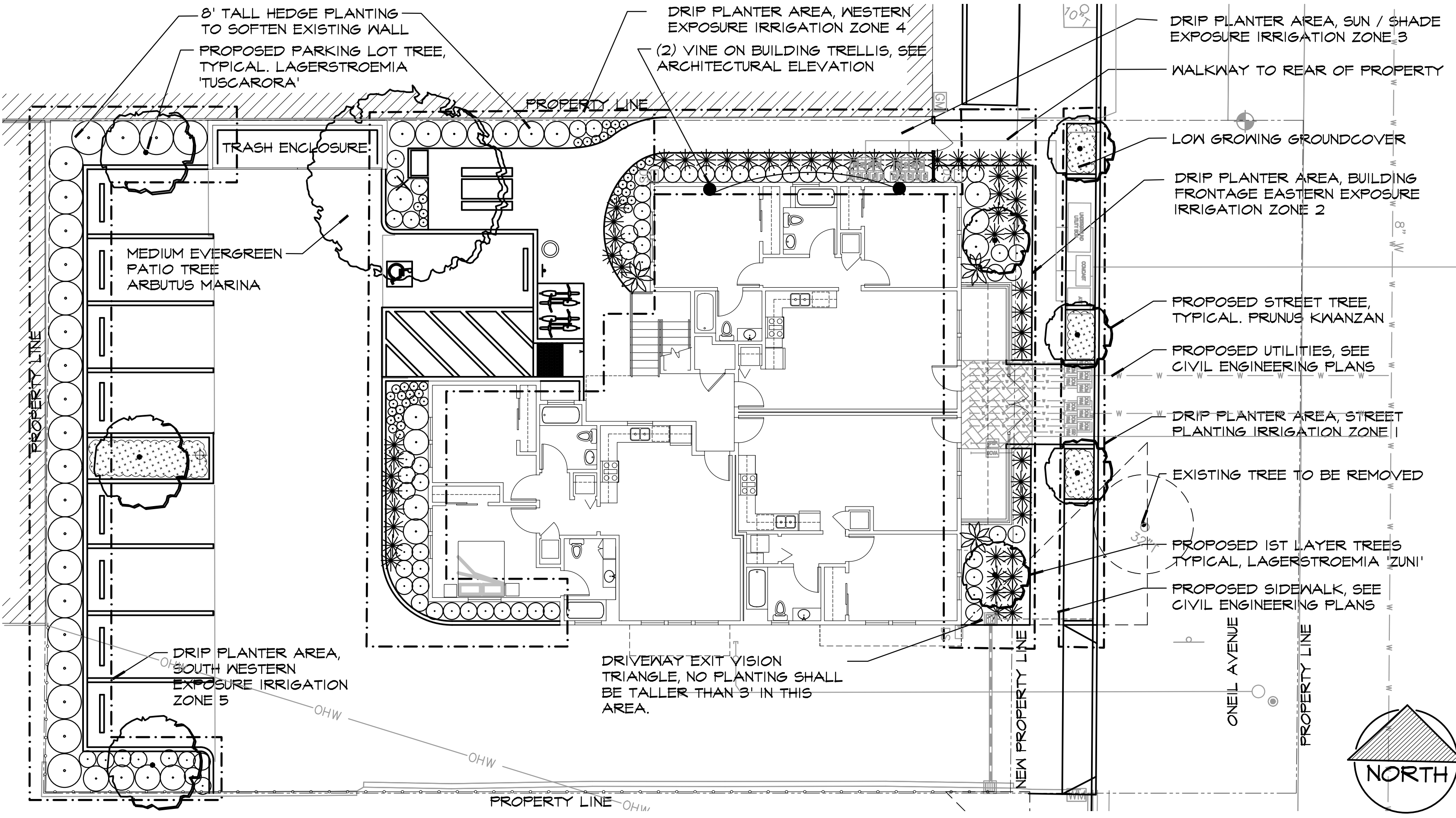
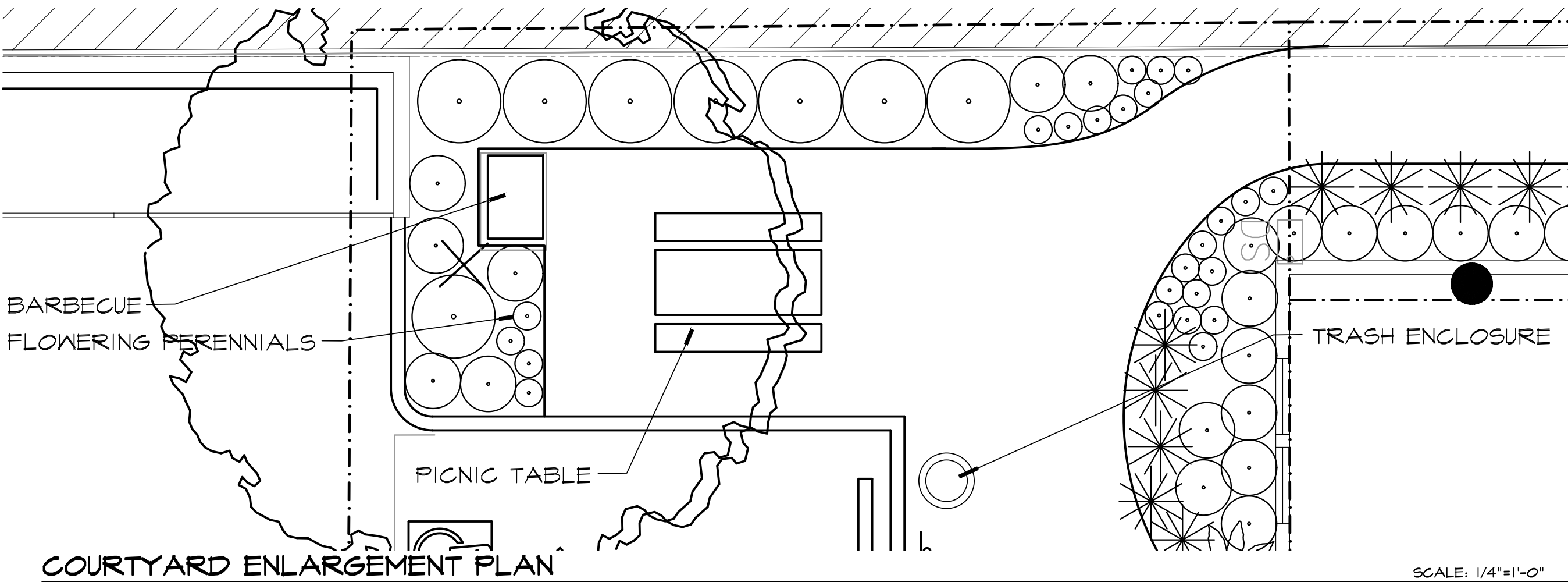
OUTDOOR CREATIONS MODEL 100S

PICNIC TABLE

PRELIMINARY PLANT LEGEND

REGION I WUCOLS CLASS	SYMBOL	SIZE	BOTANICAL NAME	COMMON NAME	MATURE SIZE	PLANT SPACING
TREES						
LOW	ARB MAR	24" BOX	ARBUTUS MARINA	"MARINA" MADRONE	30'T X 30'W *	AS SHOWN ON PLAN
LOW	LAG TUS	24" BOX	LAGERSTROEMIA I. 'TUSCARORA'	GRAPE MYRTLE - PINK	22'T X 12'W	AS SHOWN ON PLAN
LOW	LAG ZUN	24" BOX	LAGERSTROEMIA I. 'ZUNI'	GRAPE MYRTLE - LAVENDER	9'T X 8'W	AS SHOWN ON PLAN
LOW	PRU CER	24" BOX	PRUNUS S. 'KWANZAN'	PURPLE LEAF PLUM	30'T X 20'W	AS SHOWN ON PLAN
SHRUBS						
LOW	FES EJI	1 GAL	FESTUCA GLAUCA 'ELIJAH BLUE'	ELIJAH BLUE OAT GRASS	8'T X 8'W	12"
MEDIUM	HEM PEG	1 GAL	HEMEROCALLIS 'PEGGY'S PINK'	DAYLILY - PINK	2'T X 2'W	2'-3'
MEDIUM	HEM RED	1 GAL	HEMEROCALLIS 'RED VELVET'	DAYLILY - RED	2'T X 2'W	2'-3'
MEDIUM	HEU MAX	1 GAL	HEUCHERA MAXIMA	ISLAND ALUM ROOT	2'T X 3'W	3'-4'
LOW	LAV ANG	5 GAL	LAVANDULA ANGUSTIFOLIA	ENGLISH LAVENDER	2'T X 2'W	2'-3'
LOW	LAV INT	5 GAL	LAVANDULA X. 'PROVENCE'	PROVENCE LAVENDER	2'T X 3'W	3'-4'
LOW	NAN SIE	5 GAL	NANDINA D. MONFAR 'SIENNA SUNRISE'	HEAVENLY BAMBOO	3'T X 2'W *	2'-3'
VERY LOW	NAS PUL	1 GAL	NASELLA PULCHRA	PURPLE NEEDLE GRASS	3'T X 2'W	3'-4'
LOW	PHO MAO	5 GAL	PHORMIUM C. 'MAORI QUEEN'	DWARF FLAX - MAORI QUEEN	3'T X 4'W	4'-5'
LOW	RHU OVA	5 GAL	RHUS OVATA	SUGAR BUSH	10'T X 4'W	4'
LOW	ROS FLO	5 GAL	ROSA FLORIBUNDA 'ICEBERG'	ICEBERG ROSE	3'T X 4'W *	4'-5'
LOW	SAL NEM	1 GAL	SALVIA NEMOROSA 'OSTERFRIELAND'	SALVIA	2'T X 2'W	2'-3'
VINES						
MEDIUM	CLE ARM	15 GAL	CLEMATIS ARMANDII	EVERGREEN CLEMATIS VINE		
GROUND COVERS						
LOW	DYM MAR		DYMONDIA MARGARETAE	DYMONDIA	3" T X 20" W	18" O.C.
			BARK MULCH - 3" COVER IN ALL PLANTERS NOT PLANTED AND FILLED IN AROUND ALL PLANTS, TYPICAL.			

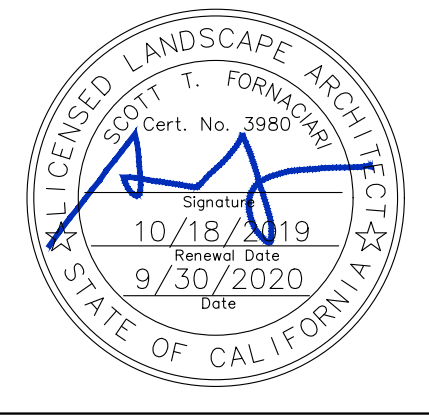
NOTE: PLANT SIZE REFERENCES SOURCED FROM SUNSET WESTERN GARDEN BOOK.
* PLANT SIZE REFERENCED FROM MONROVIA NURSERY, SUNSET GARDEN BOOK DID NOT HAVE INFORMATION
NOTE: STREET TREES SHALL BE PLANTED ACCORDING TO THE CITY STANDARD DETAIL SD-122



LANDARC

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1900 S. Norfolk Street
Suite 350
San Mateo, CA 94403
CA RLA # 3980



PROJECT: 24997 O'NEIL AVENUE
HAYWARD, CALIFORNIA 94554

OWNER: MR. PAWAN KUMAR
24997 O'NEIL AVENUE
HAYWARD, CALIFORNIA 94554

REVISIONS		
MARK	DATE	DESCRIPTION
1	11.27.19	CITY COMMENTS
2	04.14.20	CITY COMMENTS

DRAWING TITLE

CONCEPTUAL
LANDSCAPE PLAN

DATE: 3/12/19

JOB NUMBER: 1902

DRAWN: SF CHECKED: SF

SCALE: 1" = 10'-0"

SHEET NUMBER

L1.1

SHEET OF

IRRIGATION NOTES

1. THESE NOTES ARE FOR GENERAL REFERENCE IN CONJUNCTION WITH AND AS A SUPPLEMENT TO THE WRITTEN SPECIFICATIONS, DETAILS, ADDENDA AND CHANGE ORDERS ASSOCIATED WITH THE CONTRACT DOCUMENTS.
2. CONTRACTOR SHALL BECOME FAMILIAR WITH THE LOCATION OF EXISTING AND FUTURE UNDERGROUND SERVICES. CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800) 642-2444 PRIOR TO BEGINNING WORK. CONTACT OWNERS REPRESENTATIVE SHOULD ANY CONFLICTS ARISE.
3. THE IRRIGATION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH ALL LOCAL CODES AND REGULATIONS.
4. THIS SYSTEM IS DESIGNED TO OPERATE AT 75 PSI AND 20 GPM MAXIMUM AT EACH VALVE LOCATION. CONTRACTOR SHALL VERIFY PRESSURE AND FLOW PRIOR TO BEGINNING OF WORK. CONTACT OWNERS REPRESENTATIVE IMMEDIATELY SHOULD CONFLICTS ARISE.
5. THE IRRIGATION SYSTEM DESIGN IS DIAGRAMMATIC. WHERE PIPING, VALVES, ETC. ARE SHOWN OUTSIDE OF PLANTING AREAS, THE INTENT IS FOR PIPING, VALVES, ETC. TO BE INSTALLED WITHIN PLANTING AREAS UNLESS OTHERWISE NOTED AND DETAILED.
6. CONTRACTOR SHALL COORDINATE IRRIGATION INSTALLATION WITH OTHER TRADES. CONTRACTOR TO COORDINATE AND VERIFY ALL SLEEVEING, PIPING, ELECTRICAL SUPPLY, POINT OF CONNECTION, ETC.
7. CONTRACTOR IS RESPONSIBLE FOR COMPLETE AND UNIFORM COVERAGE OF ALL PLANTING AND TURF AREAS. CONTRACTOR TO THROTTLE THE FLOW CONTROL AT EACH VALVE TO OBTAIN OPTIMUM OPERATING PRESSURE FOR EACH CIRCUIT. ADJUST SPRAY HEADS AND NOZZLES FOR OPTIMUM COVERAGE WHILE PREVENTING OVERSPRAY ONTO WALKWAYS AND STRUCTURES.
8. CONTRACTOR TO MAP "AS-BUILT" CONDITIONS OF THE IRRIGATION SYSTEM. PROVIDE DIMENSIONS FOR MAINLINE FROM NEAREST PAVED SURFACE OR BUILDING. REDUCE PLAN TO A LEGIBLE FORMAT, ENCASE IN PLASTIC AND PLACE IN CONTROLLER ENCLOSURE.
9. REFER TO SPECIFICATIONS AND IRRIGATIONS DETAILS
10. CONTRACTOR SHALL TOOL-TIGHTEN ALL POP-UP SPRAY NOZZLES AND CAPS.
11. CONTRACTOR SHALL PROTECT EXISTING VALVE WIRES FOR REUSE ON NEW CIRCUITING, IF / WHERE OCCURS.
12. CONTRACTOR SHALL FIELD VERIFY EXTENT OF EXISTING IRRIGATION TO BE DEMOLISHED. CHECK AND DOCUMENT OPERATIONAL CONDITION OF EXISTING SYSTEM WITH OWNER REPRESENTATIVE PRESENT PRIOR TO BEGINNING WORK.
13. CONTRACTOR SHALL REMOVE ALL EXISTING IRRIGATION HEADS AND UNDERGROUND PIPING OR COMPONENTS THAT ARE NOT REQUIRED FOR NEW IRRIGATION SYSTEM AND EXISTING TO REMAIN IRRIGATION.
14. CONTRACTOR RESPONSIBLE TO PROVIDE CONTINUOUS OPERATION OF REMAINING IRRIGATION SYSTEM OUTSIDE OF PROJECT AREA. NOTIFY OWNER REPRESENTATIVE OF ANY DISRUPTIONS OF WATER SERVICE. CONTRACTOR TO PROVIDE SUPPLEMENTAL WATER TO PLANT MATERIAL WITHIN PROJECT AREA DURING CONSTRUCTION AS REQUIRED.
15. CONTRACTOR SHALL USE MANUFACTURER-PROVIDED DEVICE TO PREVENT LOW END DRAINAGE, WHERE LOW END DRAINAGE MAY OCCUR WITH GRADE CHANGE. IN THE EVENT THAT THE DEVICE DOESN'T CONTAIN DRAINAGE, CONTRACTOR SHALL MAKE USE OF A KING BROTHERS, INC. SPRING OR FLOW CHECK VALVE AS NECESSARY.

HYDROZONE LEGEND

- ZONE 1
LAWN AREA
TOTAL = 0 SF
- ZONE 2
PLANTER SPRAY AREA
TOTAL = 0 SF
- ZONE 3
PLANTER DRIP AREA
TOTAL = 1,309 SF
- ZONE 4
TREE DRIP AREA
7 SF EACH TREE
TOTAL = 63 SF

SECTION B. WATER BUDGET CALCULATIONS

Section B1. Maximum Applied Water Allowance (MAWA)

The project's Maximum Applied Water Allowance shall be calculated using this equation:

$$MAWA = (Eto) (0.62) [(0.45 \times LA) + (0.3 \times SLA)]$$

where:

- MAWA = Maximum Applied Water Allowance (gallons per year)
Eto = Reference Evapotranspiration from Appendix A (inches per year)
0.45 = ET Adjustment Factor (ETAF)
LA = Landscape Area includes Special Landscape Area (square feet)
0.62 = Conversion factor (to gallons per square foot)
SLA = Portion of the landscape area identified as Special Landscape Area (square feet)
0.3 = the additional ET Adjustment Factor for the Special Landscape Area (1.0 - 0.7 = 0.3)

Maximum Applied Water Allowance = 16,919 gallons per year

Show calculations.

$$(44.2) (0.62) [(0.45 \times 1,372) + (0.3) \times 0] = 16,919$$

City of Hayward

LANDSCAPE WATER USE STATEMENT

Project Name Multi-family residential
Project Address 24977 Oneil ave.
Hayward, CA 94554

Prepared by:
Landarc Associates PLLC RLA 3980
1900 S. Norfolk Street Suite 350
San Mateo, CA 94403 408-361-8085

PART ONE Landscape Water Allowance

Total Irrigated Landscaped Area (square feet) Box A 1,372
X 20.80

Landscaped Water Allowance (Gallons per Year) Box B 28,538

PART TWO Estimated Landscape Water Use

$$*ELWU = LZ \times PF \times 26 IE$$

Landscape Zone	Area (LZ) (square feet)	Plant Factor (PF)	Irrigation Efficiency (IE)	ELWU (Gallons/Year)
1	39	0.2	0.81	250
2	256	0.4	0.81	3,287
3	126	0.4	0.81	1,618
4	357	0.4	0.81	4,584
5	531	0.2	0.81	3,409
6	63	0.2	0.81	404
TOTAL	1,372			13,552

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE COMPLIANCE

I AGREE TO COMPLY WITH THE REQUIREMENTS OF THE WATER EFFICIENT LANDSCAPE ORDINANCE AND SUBMIT A COMPLETE LANDSCAPE DOCUMENTATION PACKAGE. TITLE 23 CH. 2.7 SECTION 492.3

SCOTT FORNARI
CALIFORNIA REGISTERED LANDSCAPE ARCHITECT #3980
DATE 10/18/19

SITE GRADING NOTE:

LANDSCAPE GRADING FOR THE SITE IS SHOWN ON THE CIVIL ENGINEERING SITE IMPROVEMENT PLAN(S).

SITE IRRIGATION NOTES:

1. PROJECT SHALL HAVE A SEPARATE WATER METER, SEE CIVIL ENGINEERING PLANS
2. PROJECT SHALL HAVE A SEPARATE REDUCED PRESSURE BACKFLOW PREVENTER FOR IRRIGATION
3. PROJECT STATIC WATER PRESSURE AT THIS LOCATION IS 75 PSI

HYDROZONE INFORMATION TABLE

HYDROZONE TYPE	ZONE	IRRIGATION METHOD	SQUARE FOOTAGE	% OF LANDSCAPE AREA
ZONE 3	1	DRIP	39	2
ZONE 3	2	DRIP	256	19
ZONE 3	3	DRIP	126	9
ZONE 3	4	DRIP	357	26
ZONE 3	5	DRIP	531	39
ZONE 3	6	DRIP	63	5

DRIP PLANTER AREA,
WESTERN EXPOSURE
IRRIGATION ZONE 4

DRIP PLANTER AREA,
SUN / SHADE
EXPOSURE IRRIGATION
ZONE 3

PROPOSED WATER METER
LOCATION

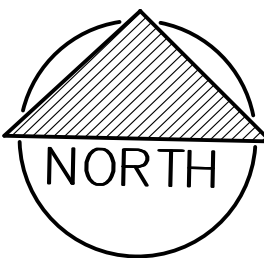
PROPOSED IRRIGATION
BACKFLOW LOCATION

DRIP PLANTER AREA,
BUILDING FRONTAGE
EASTERN EXPOSURE
IRRIGATION ZONE 2

3/4" IRRIGATION METER, SEE CIVIL
ENGINEERING PLANS

IRRIGATION BACKFLOW, SEE CIVIL
ENGINEERING PLANS. BACKFLOW SHALL
CONFORM TO THE CITY STANDARD DETAIL
SD-202. MANUAL SHUTOFF BALL VALVE
SHALL BE INSTALLED AFTER THE
BACKFLOW DEVICE. STATIC PRESSURE OF
60 PSI REQUIRED FOR IRRIGATION SYSTEM
OPERATION.

DRIP PLANTER AREA, STREET PLANTING
IRRIGATION ZONE 1



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2	04.14.20	CITY COMMENTS

DRAWING TITLE
HYDROZONE
PLAN

DATE: 3/12/19

JOB NUMBER: 1902

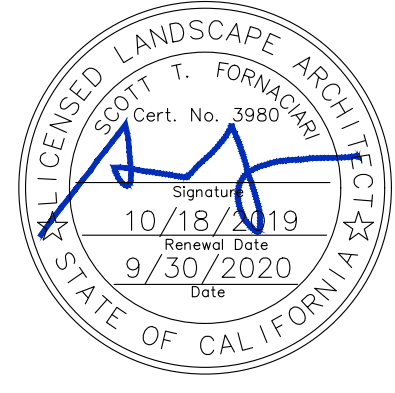
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SCALE: 1"=10'-0"

SHEET NUMBER

L2.1

SHEET OF



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