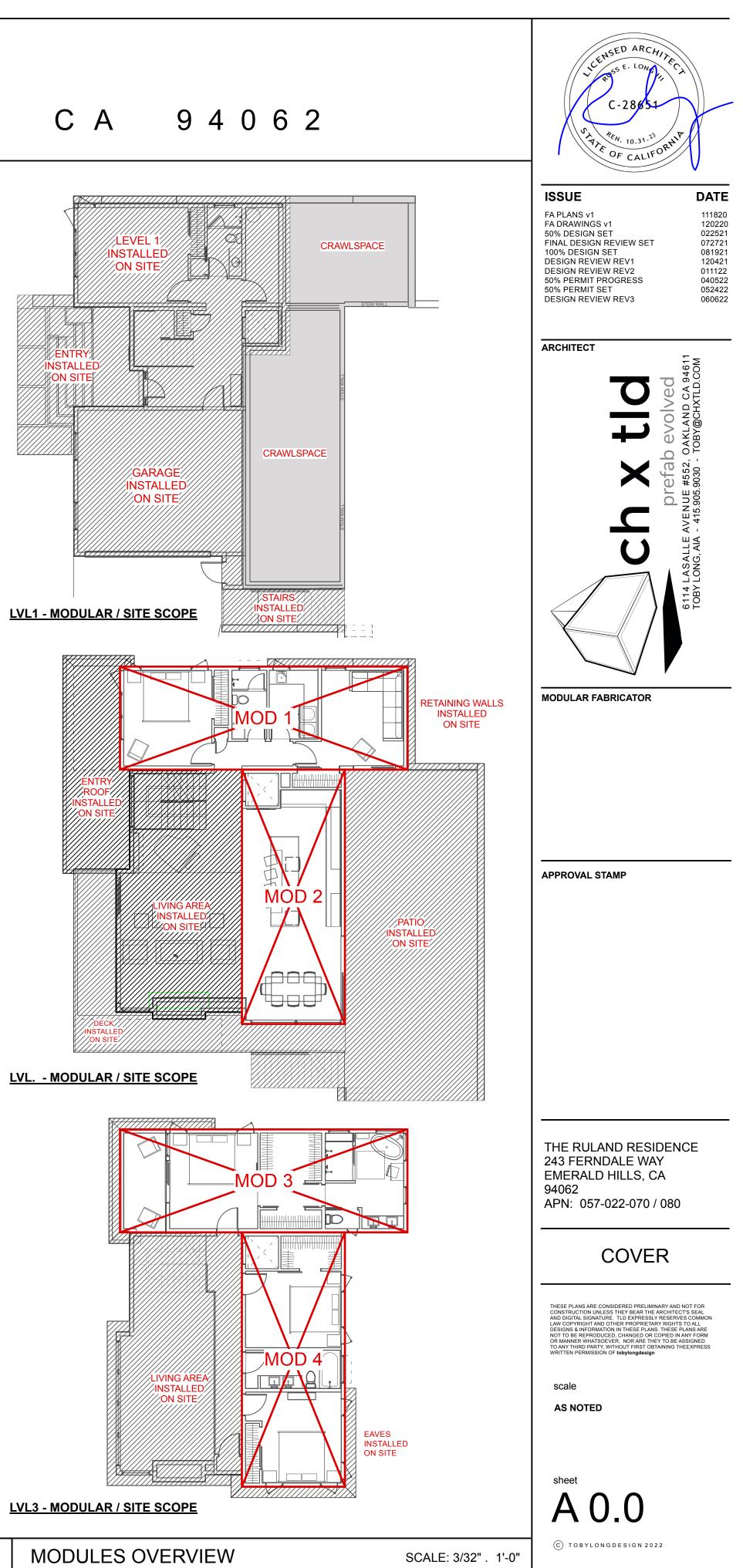
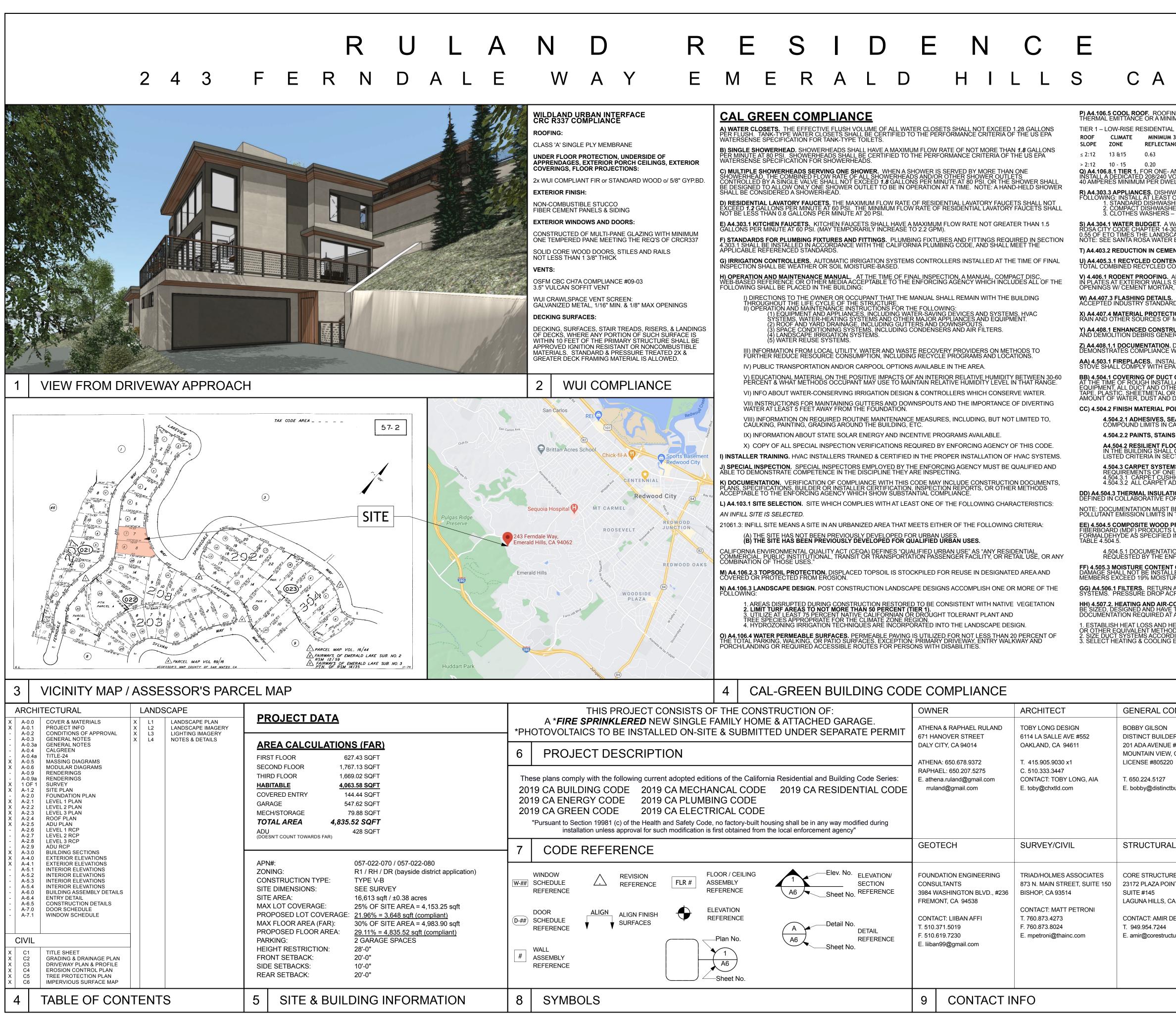


# R E S I D E N C E





## C A 9 4 0 6 2

**P) A4.106.5 COOL ROOF.** ROOFING MATERIALS SHALL HAVE A MINIMUM 3-YEAR AGED SOLAR REFLECTANCE AND THERMAL EMITTANCE OR A MINIMUM SOLAR REFLECTANCE INDEX (SRI) AS SPECIFIED BELOW.

CLIMATE<br/>ZONEMINIMUM 3-YR AGED SOLAR<br/>REFLECTANCETHERMAL EMITTANCESRI13 &150.630.7575

 > 2:12 10 - 15 0.20 0.75 16
 Q) A4.106.8.1 TIER 1. FOR ONE- AND TWO-FAMILY DWELLINGS & TOWNHOUSES WITH ATTACHED PRIVATE GARAGES. INSTALL A DEDICATED 208/240 VOLT BRANCH CIRCUIT, INCLUDING AN OVERCURRENT PROTECTIVE DEVICE RATED AT 40 AMPERES MINIMUM PER DWELLING UNIT.

R) A4.303.3 APPLIANCES. DISHWASHERS & CLOTHES WASHERS IN RESIDENTIAL BUILDINGS SHALL COMPLY WITH THE FOLLOWING: INSTALL AT LEAST ONE QUALIFIED ENERGY STAR APPLIANCE WITH MAXIMUM WATER USE AS FOLLOWS:

 STANDARD DISHWASHERS – 4.25 GALLONS PER CYCLE.
 COMPACT DISHWASHERS – 3.5 GALLONS PER CYCLE
 CLOTHES WASHERS – WATER FACTOR OF 6 GALLONS PER CUBIC FEET OF DRUM CAPACITY.

**S) A4.304.1 WATER BUDGET.** A WATER BUDGET SHALL BE DEVELOPED FOR LANDSCAPE IRRIGATION PER SANTA ROSA CITY CODE CHAPTER 14-30. REDUCE THE USE OF POTABLE WATER TO A QUANTITY THAT DOES NOT EXCEED 0.55 OF ETO TIMES THE LANDSCAPE AREA. (SUPPORT DOCUMENTATION REQUIRED AT APPLICATION SUBMITTAL.) NOTE: SEE SANTA ROSA WATER EFFICIENT LANDSCAPE ORDINANCE

T) A4.403.2 REDUCTION IN CEMENT USE. CEMENT USE IN FOUNDATION MIX REDUCED BY NOT LESS THAN 20 PERCENT.
 U) A4.405.3.1 RECYCLED CONTENT. USE MATERIALS, EQUIVALENT IN PERFORMANCE TO VIRGIN MATERIALS, WITH TOTAL COMBINED RECYCLED CONTENT VALUE, FOR NOT LESS THAN 10% OF TOTAL MATERIAL COST OF PROJECT.
 V) 4.406.1 RODENT PROOFING. ANNULAR SPACES AROUND PIPES, ELECTRIC CABLES, CONDUITS, OTHER OPENINGS IN PLATES AT EXTERIOR WALLS SHALL BE PROTECTED AGAINST PASSAGE OF RODENTS BY CLOSING SUCH OPENINGS W/ CEMENT MORTAR, CONCRETE MASONRY OR SIMILAR METHOD ACCEPTABLE TO ENFORCING AGENCY.
 W) A4.407.3 FLASHING DETAILS. PROVIDE FLASHING DETAILS ON THE BUILDING PLANS AND COMPLY WITH ACCEPTED INDUSTRY STANDARDS OR MANUFACTURERS INSTRUCTIONS.

X) A4.407.4 MATERIAL PROTECTION. PROTECT BUILDING MATERIALS DELIVERED TO THE CONSTRUCTION SITE FROM RAIN AND OTHER SOURCES OF MOISTURE.
 Y) A4.408.1 ENHANCED CONSTRUCTION WASTE REDUCTION. AT LEAST 65% OF NONHAZARDOUS CONSTRUCTION AND DEMOLITION DEBRIS GENERATED AT THE SITE IS DIVERTED TO RECYCLE OR SALVAGE.

AND DEMOLITION DEBRIS GENERATED AT THE SITE IS DIVERTED TO RECYCLE OR SALVAGE. **Z) A4.408.1.1 DOCUMENTATION.** DOCUMENTATION SHALL BE PROVIDED TO THE ENFORCING AGENCY WHICH DEMONSTRATES COMPLIANCE WITH THIS SECTION. DOCUMENTATION SHALL BE COMPLIANCE WITH SECTION 4.408.5.

AA) 4.503.1 FIREPLACES. INSTALL ONLY A DIRECT-VENT OR SEALED-COMBUSTION GAS FIREPLACE. WOOD-PELLET STOVE SHALL COMPLY WITH EPA NEW SOURCE PERFORMANCE STANDARDS (NSPS) OR LOCAL ORDINANCES. BB) 4.504.1 COVERING OF DUCT OPENINGS & PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION. AT THE TIME OF ROUGH INSTALLATION, DURING STORAGE ON THE SITE AND UNTIL FINAL STARTUP OF THE HVAC EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEETMETAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF WATER, DUST AND DEBRIS, WHICH MAY ENTER THE SYSTEM.

CC) 4.504.2 FINISH MATERIAL POLLUTANT CONTROL. FINISH MATERIALS SHALL COMPLY WITH THIS SECTION:
 4.504.2.1 ADHESIVES, SEALANTS AND CAULKS. SHALL BE COMPLIANT WITH VOC AND OTHER TOXIC COMPOUND LIMITS IN CALGREEN TABLE 4.504.1 OR 4.504.2 AS APPLICABLE.
 4.504.2.2 PAINTS, STAINS AND OTHER COATINGS. COMPLIANT W/ VOC LIMITS IN CALGREEN TABLE 4.504.3

**A4.504.2 RESILIENT FLOORING SYSTEMS.** AT LEAST 90% OF THE RESILIENT FLOORING SYSTEMS INSTALLED IN THE BUILDING SHALL COMPLY WITH THE VOC- EMISSION LIMITS DEFINED IN AT LEAST ONE OF THE 4 LISTED CRITERIA IN SECTION A4.504.2

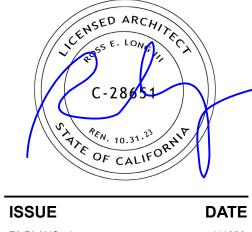
 4.504.3 CARPET SYSTEMS. CARPET AND CARPET SYSTEMS. SHALL MEET THE TESTING AND PRODUCT REQUIREMENTS OF ONE OF THE LISTED ITEMS, 1 – 4 IN SECTION 4.504.3. 4.504.3.1 CARPET CUSHION SHALL MEET REQ'S OF CARPET & RUG INSTITUTE'S GREEN LABEL PROGRAM. 4.504.3.2 ALL CARPET ADHESIVE SHALL MEET THE REQUIREMENTS OF TABLE 4.504.1.
 DD) A4.504.3 THERMAL INSULATION. INSTALL THERMAL INSULATION IN COMPLIANCE WITH THE VOC-EMISSION LIMITS DEFINED IN COLLABORATIVE FOR HIGH PERFORMANCE SCHOOLS (CHPS) LOW-EMITTING MATERIALS LIST.
 NOTE: DOCUMENTATION MUST BE PROVIDED THAT VERIFIES THAT FINISH MATERIALS ARE CERTIFIED TO MEET THE POLLUTANT EMISSION LIMITS IN THIS SECTION.

EE) 4.504.5 COMPOSITE WOOD PRODUCTS. HARDWOOD PLYWOOD, PARTICLEBOARD & MEDIUM DENSITY FIBERBOARD (MDF) PRODUCTS USE ON THE INTERIOR OR EXTERIOR SHALL MEET THE REQUIREMENTS FOR FORMAL DEHYDE AS SPECIFIED IN THE ARB'S AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS SHOWN

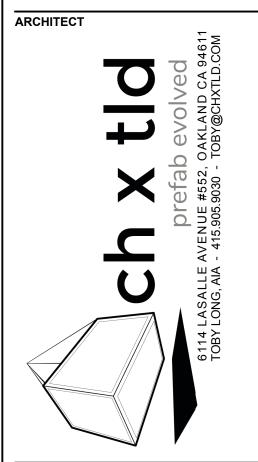
4.504.5.1 DOCUMENTATION. VERIFICATION OF COMPLIANCE WITH THIS SECTION SHALL BE PROVIDED AS REQUESTED BY THE ENFORCING AGENCY. **FF) 4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS.** BUILDING MATERIALS WITH VISIBLE SIGNS OF WATER DAMAGE SHALL NOT BE INSTALLED. WALL AND FLOOR FRAMING SHALL NOT BE ENCLOSED WHEN THE FRAMING MEMBERS EXCEED 19% MOISTURE CONTENT.

GG) A4.506.1 FILTERS. RETURN AIR FILTERS WITH A VALUE GREATER THAN MERV 6 SHALL BE INSTALLED ON HVAC SYSTEMS. PRESSURE DROP ACROSS THE FILTER SHALL NOT EXCEED 0.1 INCHES WATER COLUMN.
HH) 4.507.2. HEATING AND AIR-CONDITIONING SYSTEM DESIGN. HEATING AND AIR- CONDITIONING SYSTEMS SHALL BE SIZED, DESIGNED AND HAVE THEIR EQUIPMENT SELECTED USING THE FOLLOWING METHODS: (SUPPORT DOCUMENTATION REQUIRED AT APPLICATION SUBMITTAL.)

1. ESTABLISH HEAT LOSS AND HEAT GAIN VALUES ACCORDING TO ANSI/ACCA MANUAL J-2011, ASHRAE HANDBOOKS OR OTHER EQUIVALENT METHODS. 2. SIZE DUCT SYSTEMS ACCORDING TO ANSI/ACCA 1 MANUAL D – 2014, ASHRAE HANDBOOKS OR EQUIVALENT. 3. SELECT HEATING & COOLING EQUIPMENT ACCORDING TO ANSI/ACCA 3 MANUAL S – 2014 OR EQUIVALENT.



FA PLANS v1 111820 FA DRAWINGS v1 120220 50% DESIGN SET 022521 FINAL DESIGN REVIEW SET 072721 100% DESIGN SET 081921 DESIGN REVIEW REV 120421 **DESIGN REVIEW REV2** 011122 50% PERMIT PROGRESS 040522 50% PERMIT SET 052422 DESIGN REVIEW REV3 060622



MODULAR FABRICATOR

APPROVAL STAMP

GENERAL CONTRACTOR	ARBORIST/LANDSCAPE		
BOBBY GILSON DISTINCT BUILDERS 201 ADA AVENUE #31 MOUNTAIN VIEW, CA 94043 LICENSE #805220 T. 650.224.5127 E. bobby@distinctbuilders.com	PENNELL PHILLIPS   PRINCIPAL LANDSCAPE ARCHITECT 5602 CERTIFIED ARBORIST WE-6608A 6000 HARWOOD AVENUE   OAKLAND CA 94618 T. 510.655.7674   F 510.655.7673 E. penn@aboutinsideout.com		THE 243 EME 9400 APN
STRUCTURAL	TITLE 24 / MECHANICAL	GEOLOGIST	THESE CONST AND DI LAW C DESIG NOT TO
CORE STRUCTURE, INC. 23172 PLAZA POINTE DRIVE SUITE #145 LAGUNA HILLS, CA 92653 CONTACT: AMIR DEIHIMI T. 949.954.7244 E. amir@corestructure.com	MONTEREY ENERGY GROUP 227 FOREST AVENUE, SUITE 5 PACIFIC GROVE, CA 93950 CONTACT: DAVID KNIGHT T: 831.372.8328 F: 831.372.4613 E: dave@meg4.com	ASSOCIATED TERRA CONSULTANTS, Inc. 1725 DELL AVE CAMPBELL, CA 95008 CONTACT: KATIE BRYANT T: 408.866.1067 E: katie@aterracon.com	or Ma TO ANY WRITTI SC2 NA She

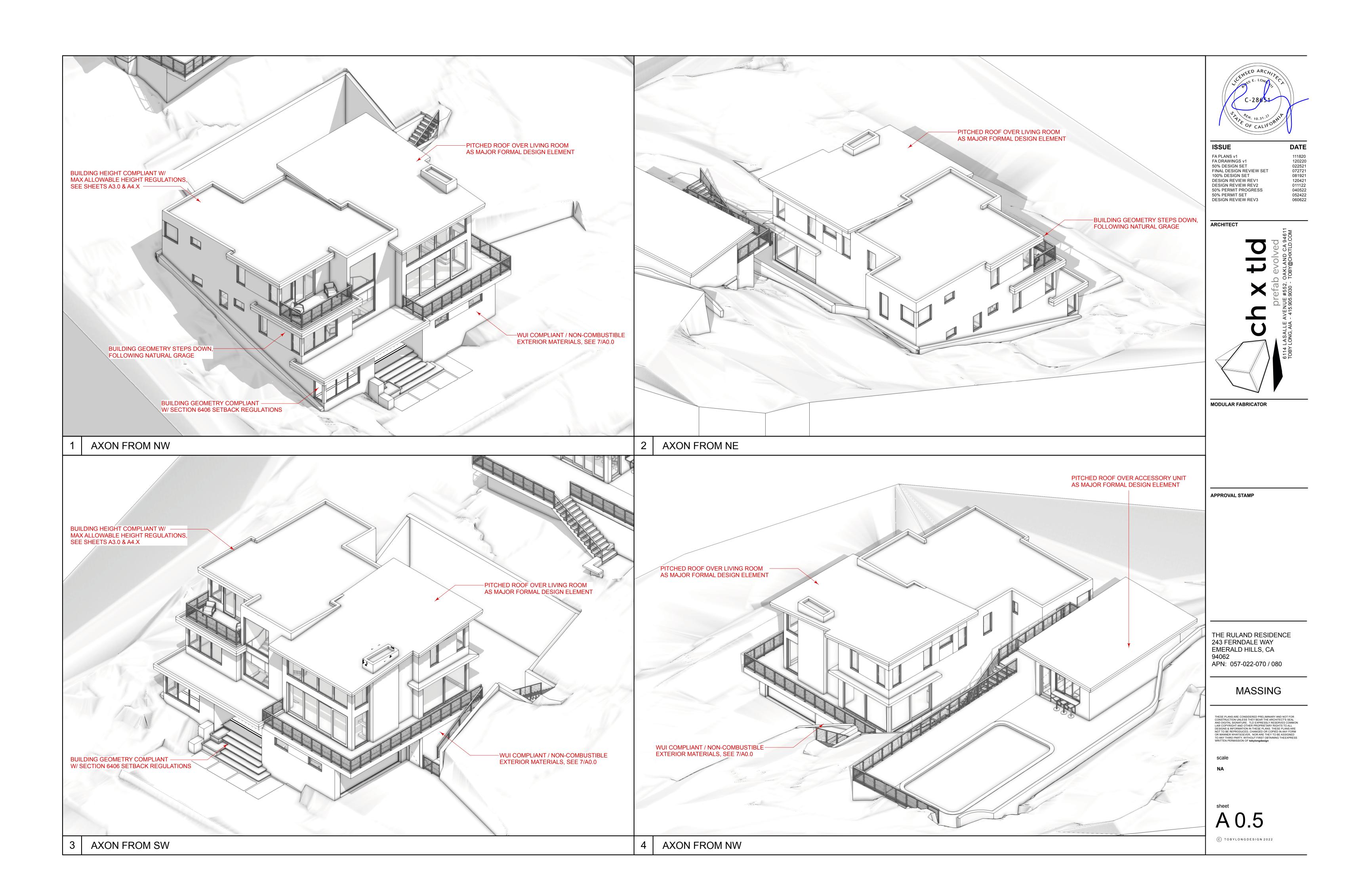
THE RULAND RESIDENCE 243 FERNDALE WAY EMERALD HILLS, CA 94062 APN: 057-022-070 / 080

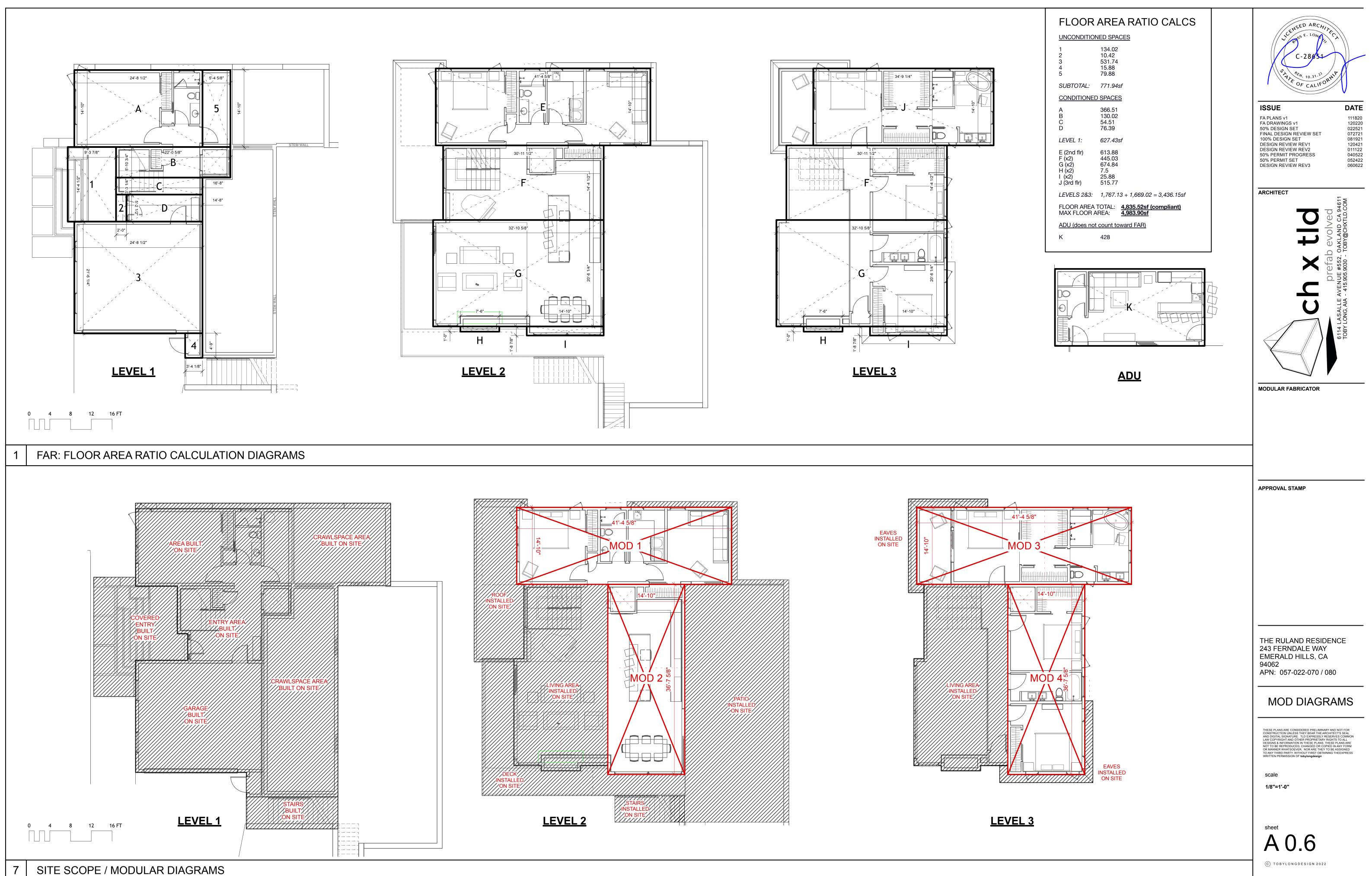
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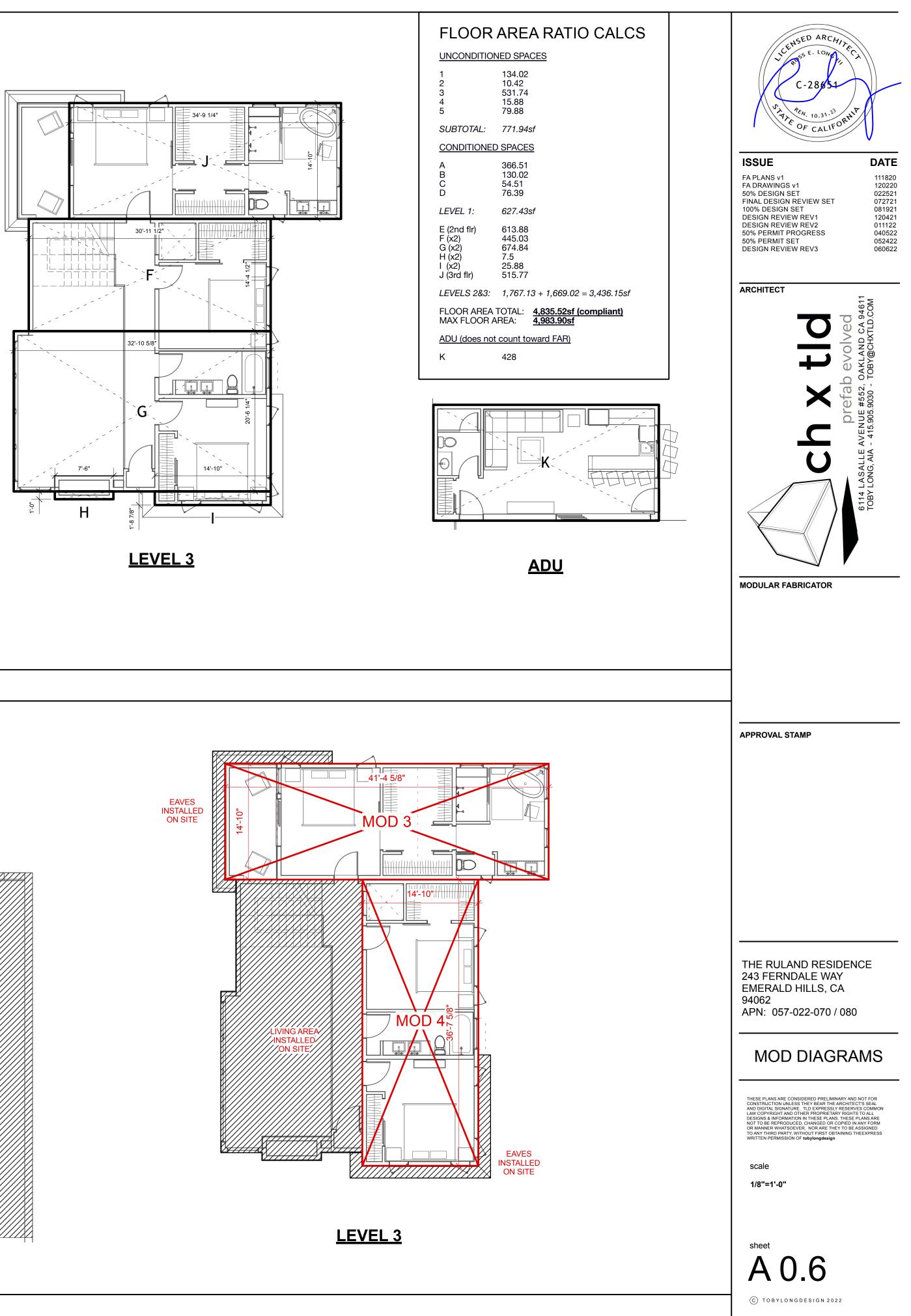
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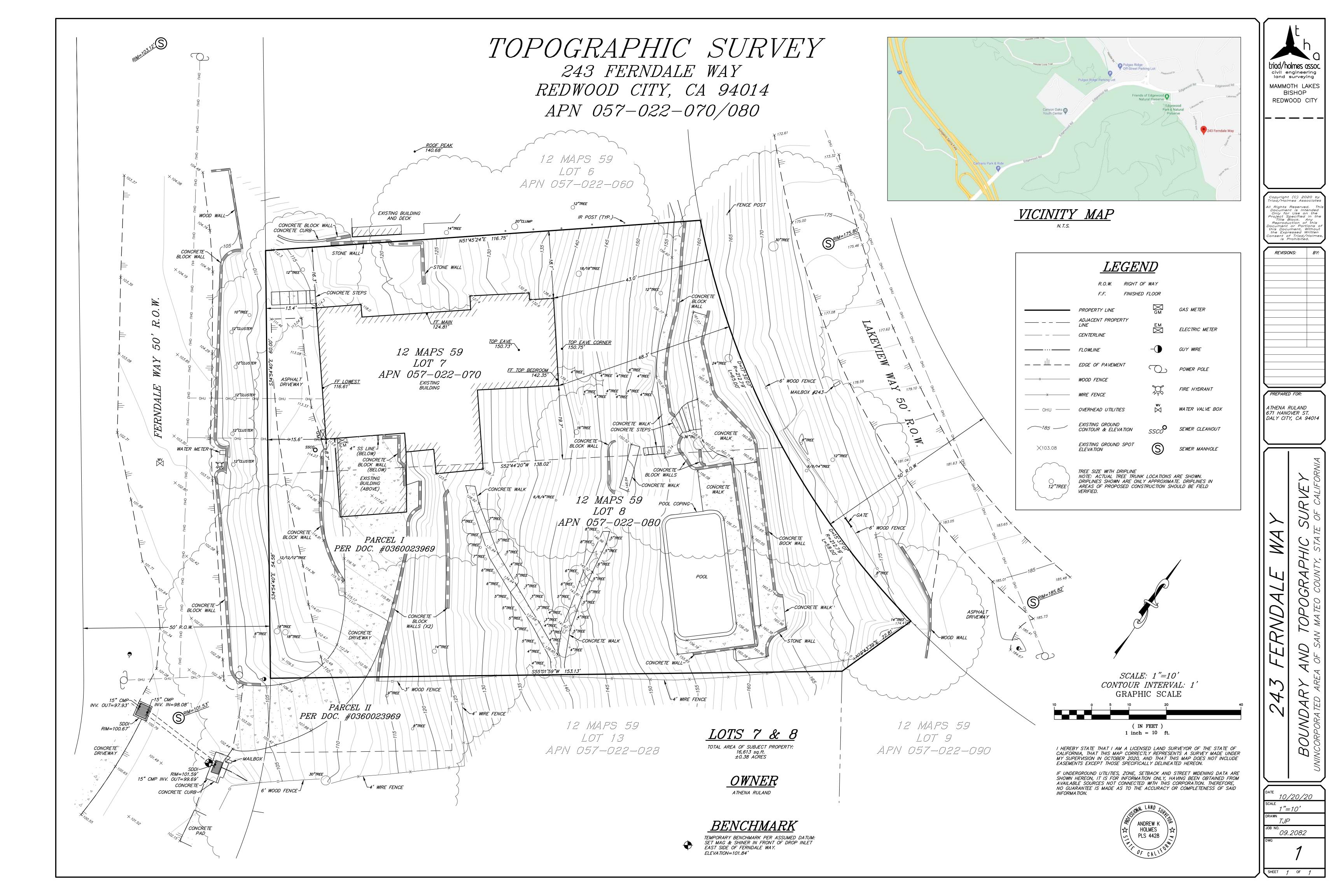
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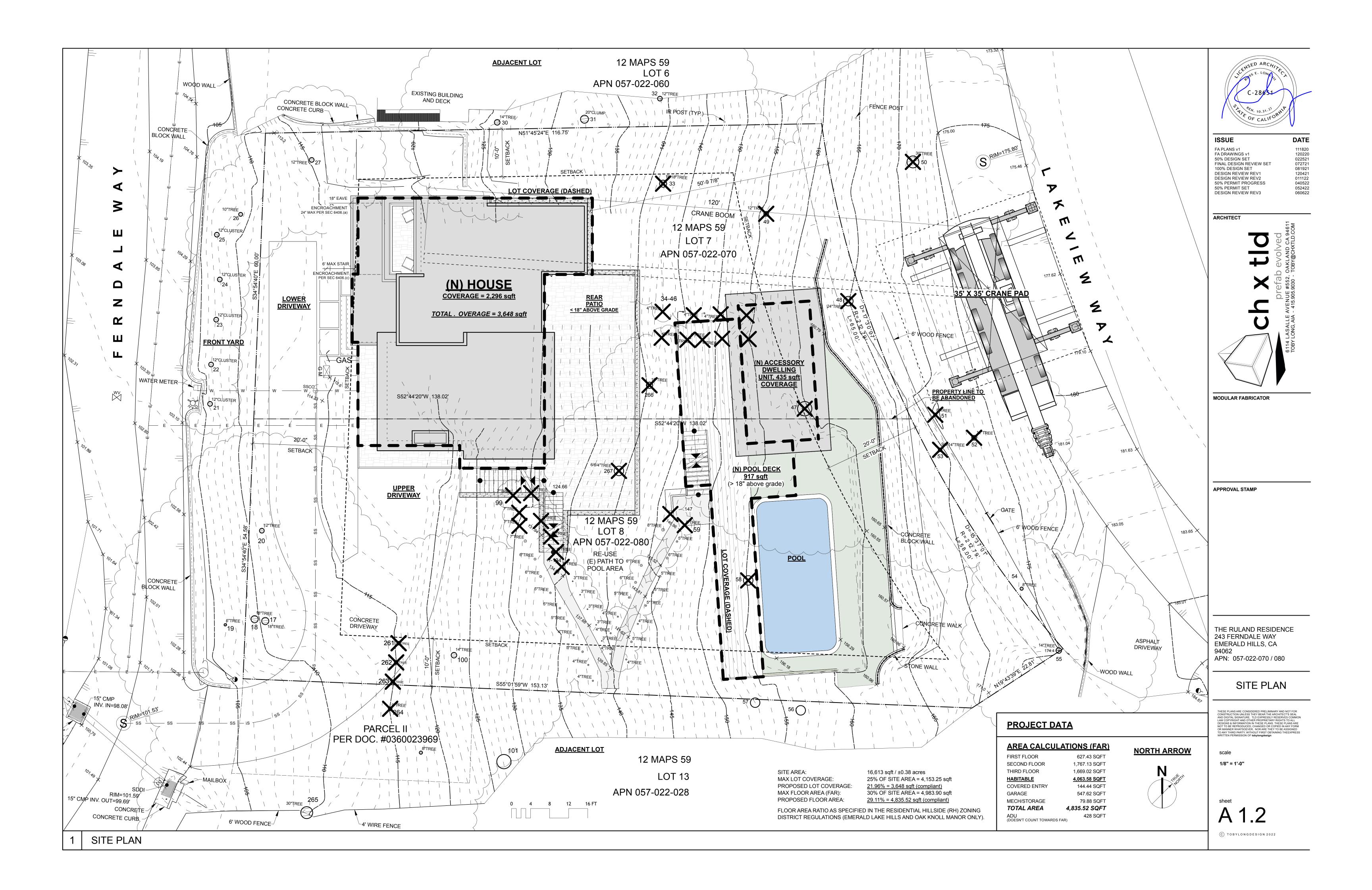
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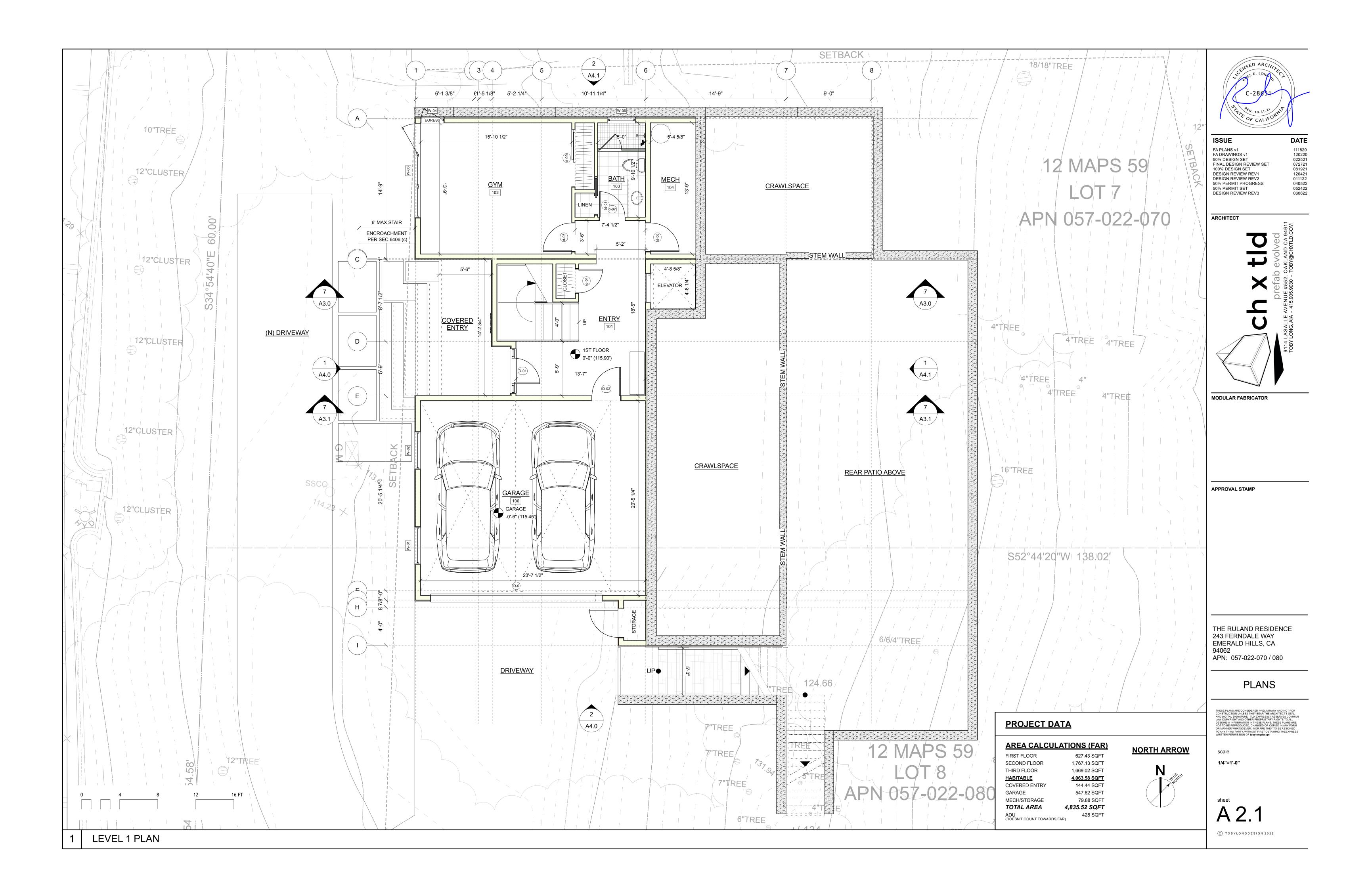


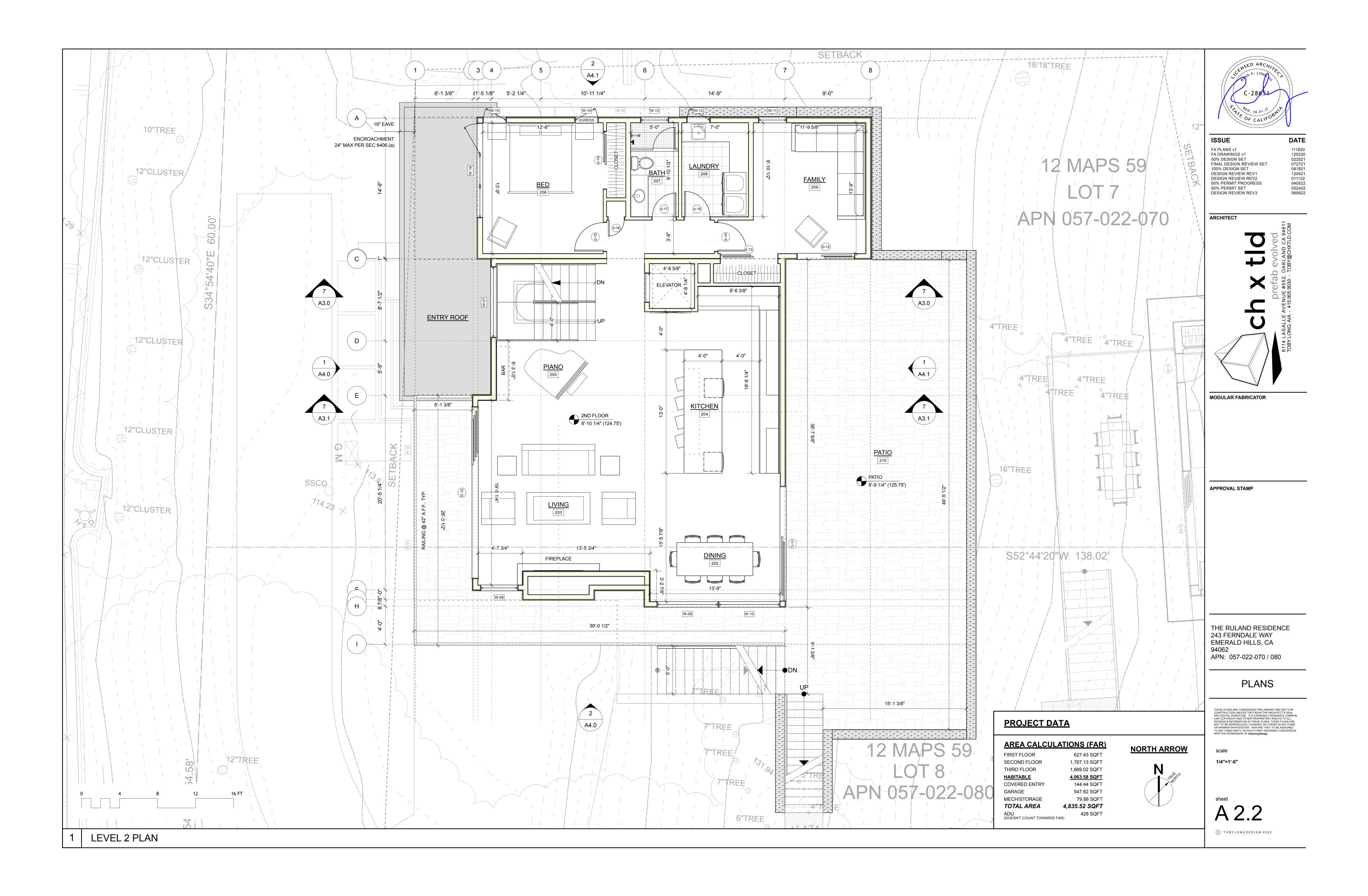


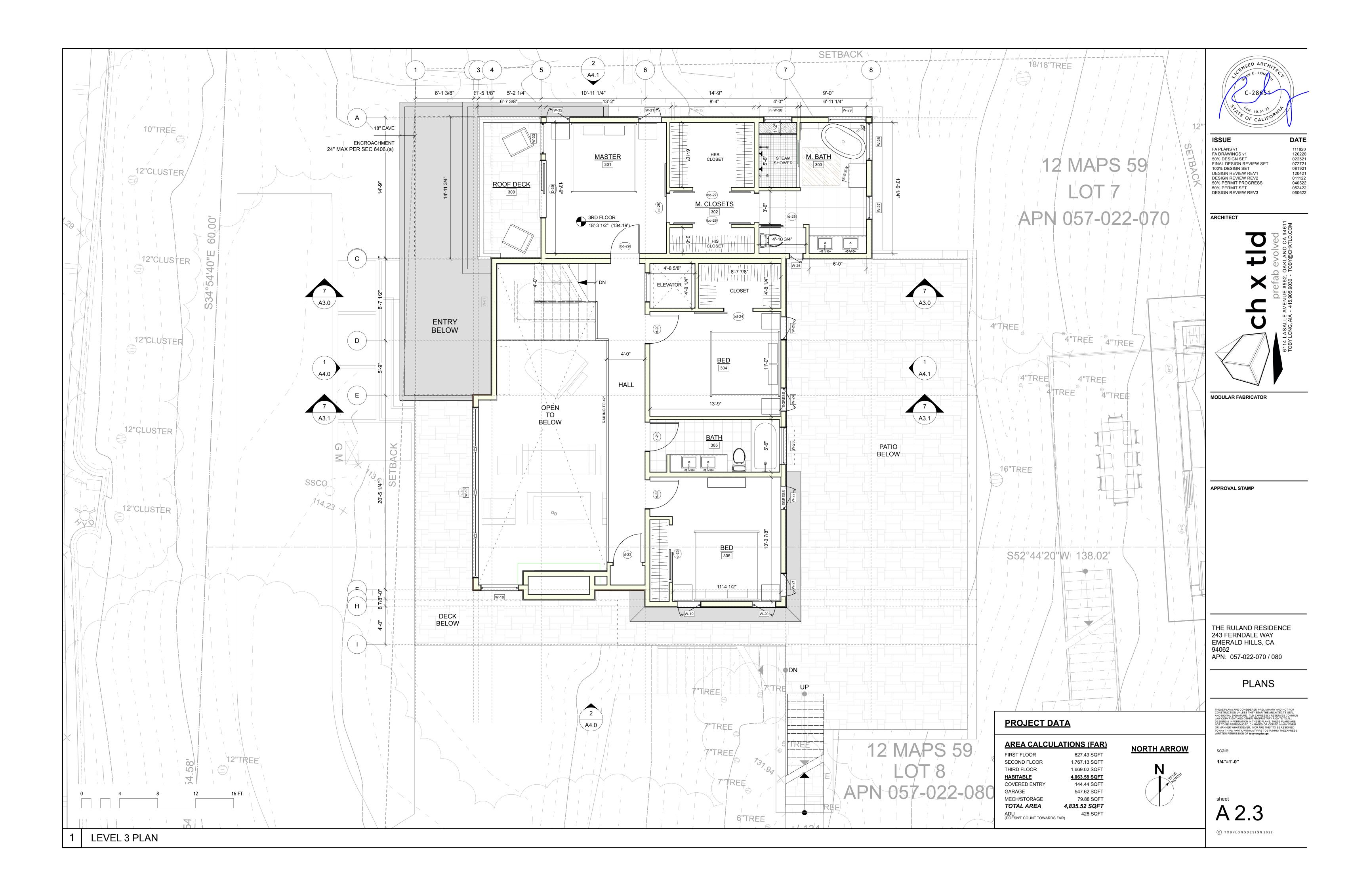




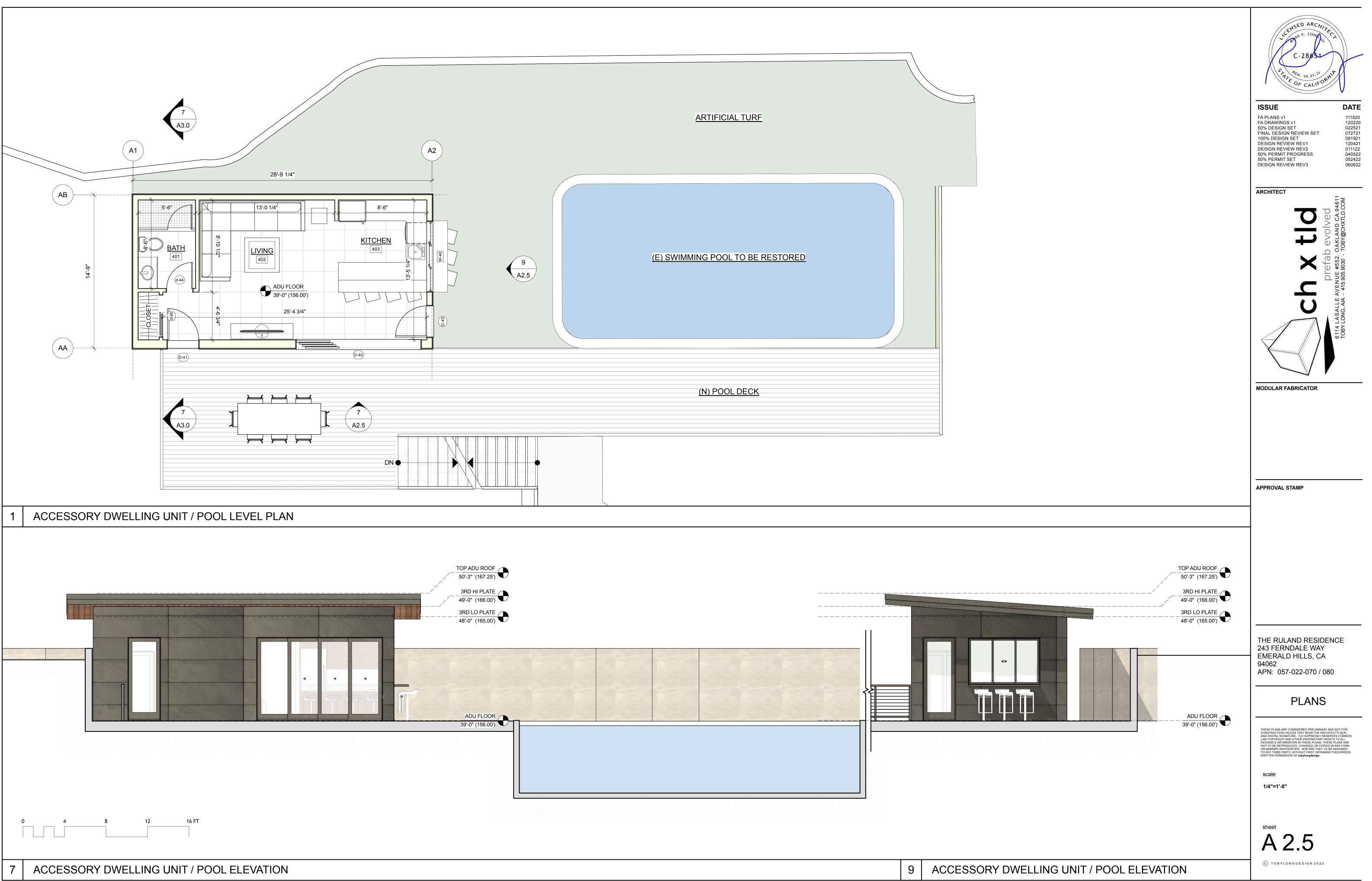




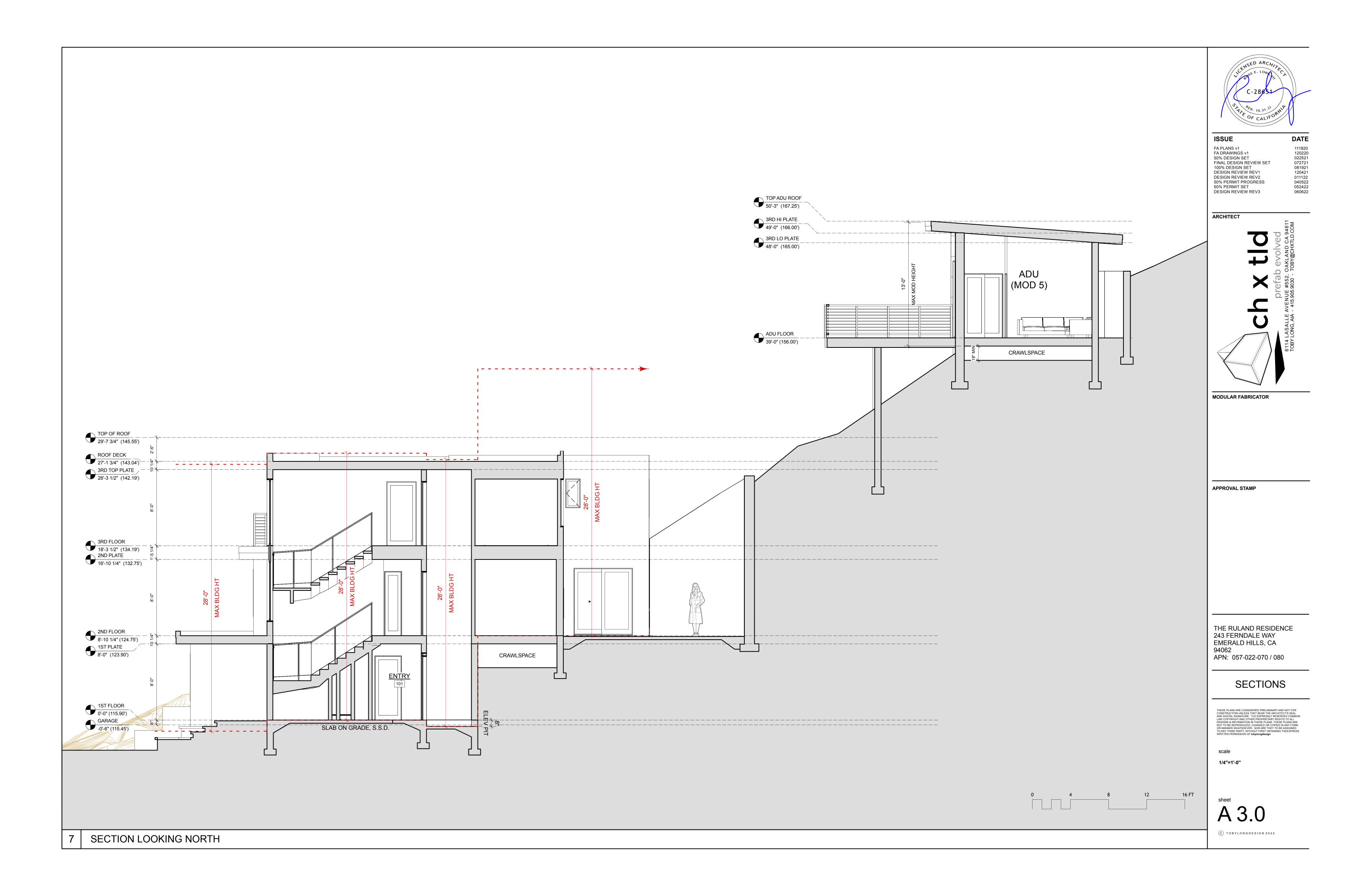














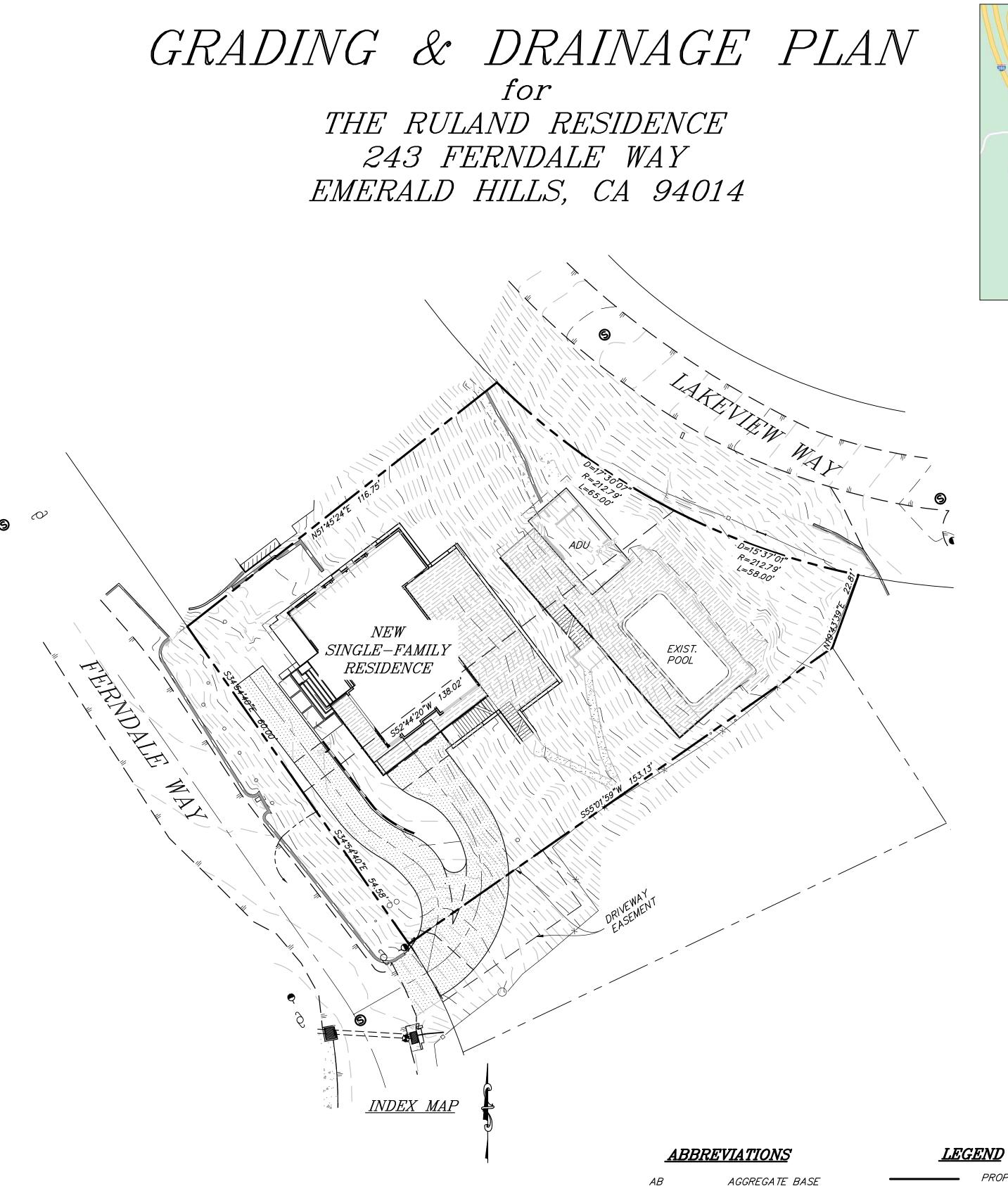


## GRADING GENERAL NOTES

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- 2. ALL WORK SHALL CONFORM TO THE <u>SAN MATEO COUNTY</u> STANDARDS AND REGULATIONS. IN THE EVENT OF CONFLICT BETWEEN THE S.M.C. STANDARDS AND REGULATIONS AND THE PLANS, THE S.M.C. STANDARDS AND REGULATIONS SHALL PREVAIL.
- 3. AREAS TO BE GRADED SHALL BE CLEARED OF BRUSH, VEGETATION, LARGE BOULDERS, AND OTHER DELETERIOUS MATERIALS.
- 4. SUB-GRADE SHALL BE APPROVED BY GEOTECHNICAL ENGINEER PRIOR TO PLACING FILL OR CONSTRUCTING STRUCTURES. SUB\*GRADE IN AREAS TO BE PAVED SHALL BE SCARIFIED, MOISTENED, AND COMPACTED TO A MINIMUM OF 95% OF THE MATERIALS MAXIMUM DRY DENSITY AS DETERMINED BY A.S.T.M. D-1557-78 FOR THE UPPER 12 INCHES. SUBGRADE IN NON-STRUCTURAL FILL AREAS SHALL BE SCARIFIED, MOISTENED, AND COMPACTED TO A MINIMUM OF 85% OF THE MATERIALS MAXIMUM DRY DENSITY AS DETERMINED BY A.S.T.M. D-1557-78 TO A DEPTH OF 12 INCHES.
- 5. CONTRACTOR SHALL TAKE ALL SUCH MEASURES NECESSARY TO CONTROL DUST IN CONSTRUCTION AREAS OR ON ACCESS ROADS. SOIL SURFACES SHALL BE MOISTENED AS REQUIRED TO AVOID ALL EXPOSED NUISANCE CONDITIONS AND INCONVENIENCES FOR LOCAL RESIDENTS AND TRAVELERS OF NEARBY ROADWAYS.
- 6. AGGREGATE BASE SHALL BE CLASS 2, 3/4–INCH MAXIMUM GRADING, AND SHALL CONFORM TO THE PROVISIONS OF SECTION 26, "AGGREGATE BASES," OF CALTRANS STANDARD SPECIFICATIONS AND SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE MATERIALS MAXIMUM DRY DENSITY AS DETERMINED BY A.S.T.M. D-1557-78.
- 7. ASPHALT CONCRETE SHALL BE TYPE B, 1/2–INCH MAXIMUM GRADING AND SHALL CONFORM TO THE PROVISIONS IN SECTION 39, "ASPHALT CONCRETE," OF THE CALTRANS STANDARD SPECIFICATIONS.
- 8. EARTH MATERIAL IMPORTED OR EXCAVATED ON THE PROPERTY MAY BE UTILIZED AS FILL IN STRUCTURAL FILL AREAS, PROVIDED THAT EACH MATERIAL HAS BEEN DETERMINED TO BE SUITABLE BY THE GEOTECHNICAL ENGINEER. ALL FILL SHALL BE FREE OF ORGANIC AND OTHER DELETERIOUS MATERIAL. SOILS OF POOR GRADATION, EXPANSION POTENTIAL, OR STRENGTH CHARACTERISTICS SHALL BE PLACED IN AREAS DESIGNATED BY THE GEOTECHNICAL ENGINEER OR SHALL BE MIXED WITH WITH OTHER SOILS TO SERVICE AS SATISFACTORY SOIL MATERIAL.
- 9. ALL EXISTING STRUCTURES WILL BE REMOVED PRIOR TO ANY IMPROVEMENTS.

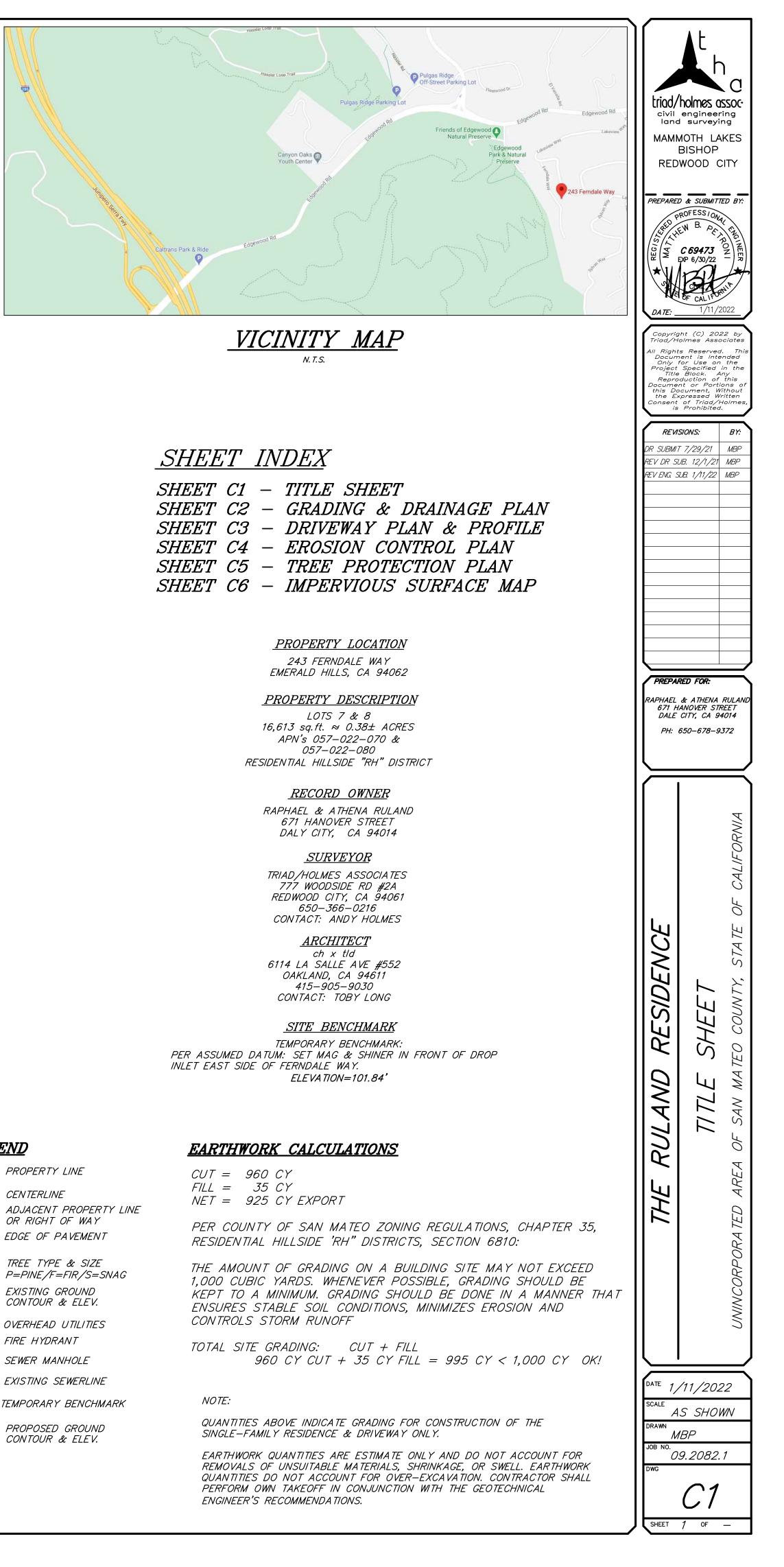
## NOTE:

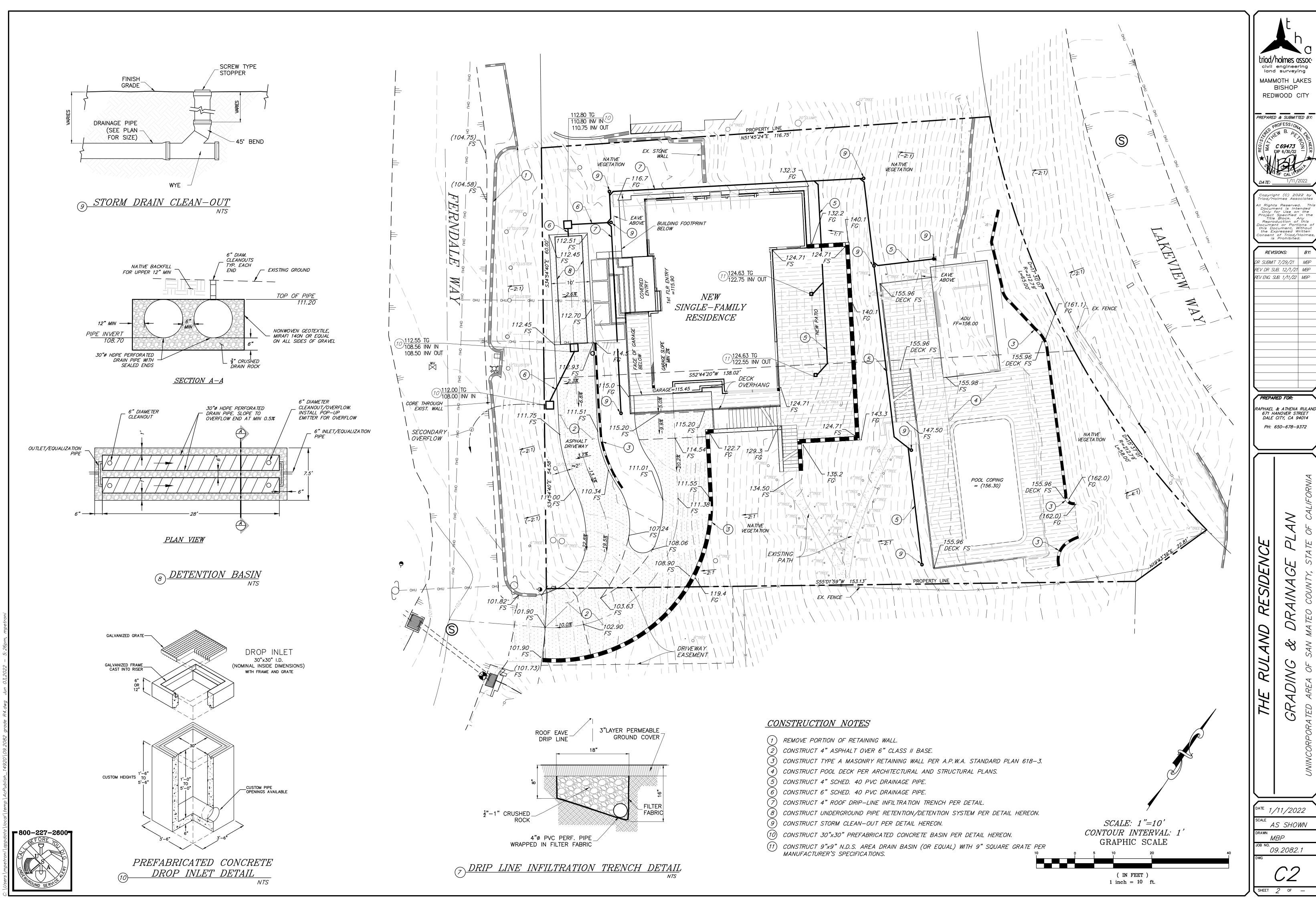
IF UNDERGROUND UTILITIES ARE SHOWN HEREON, IT IS FOR INFORMATION ONLY AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID INFORMATION. FIELD VERIFY LOCATIONS PRIOR TO CONSTRUCTION.

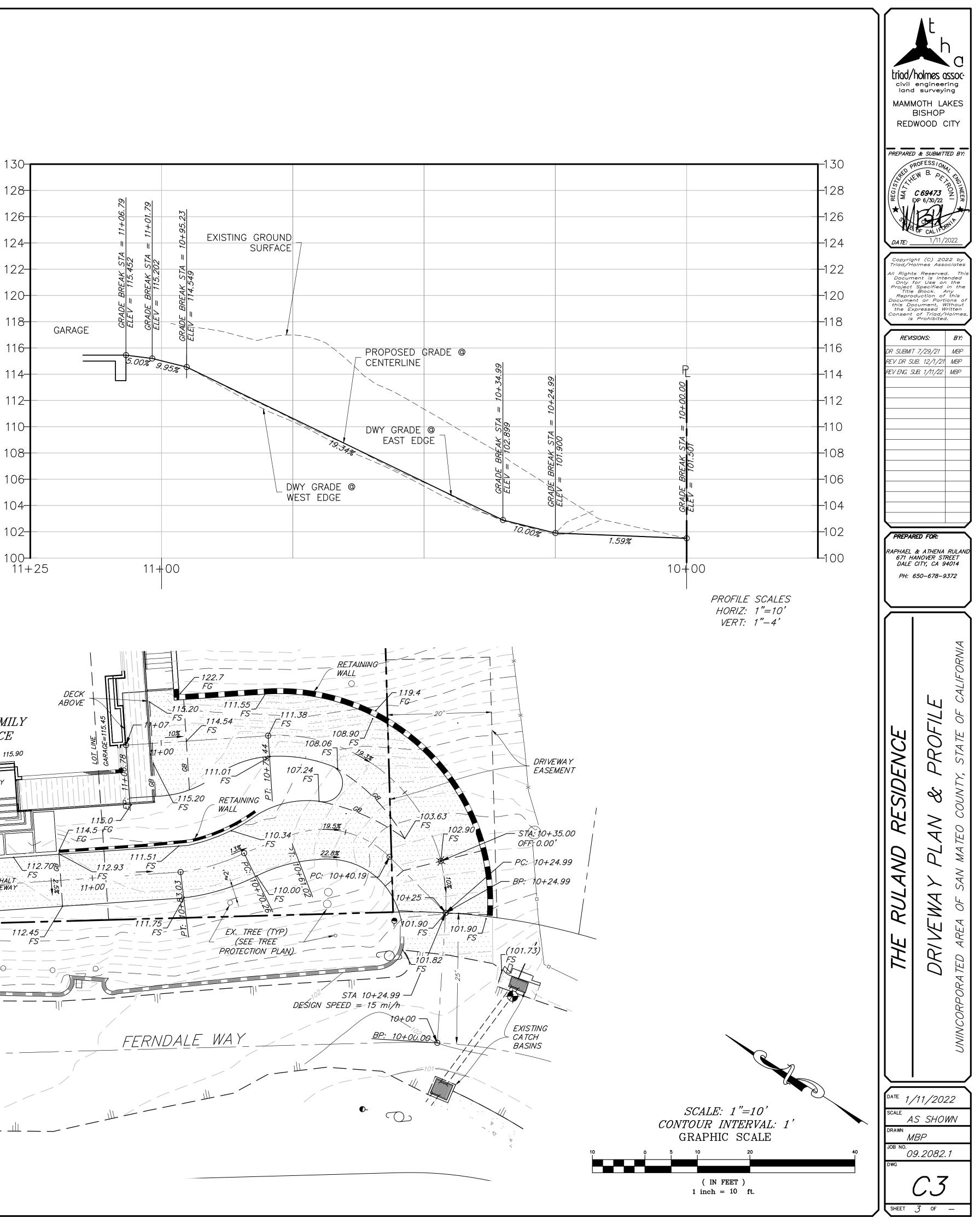


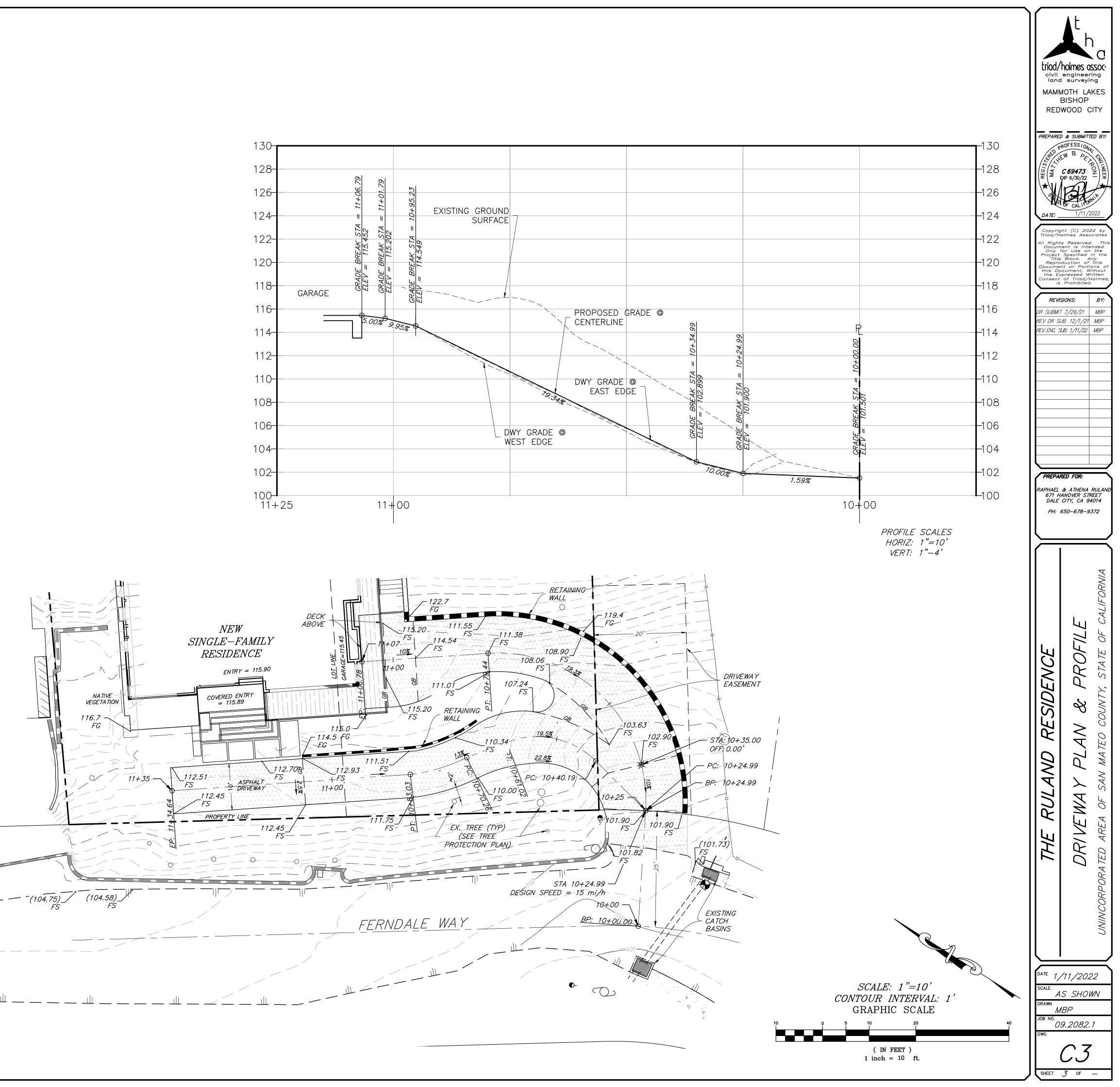
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CMP	CORRUGATED METAL PIPE	Ш	EDGE (
EG EP	EXISTING GRADE EDGE OF PAVEMENT		
EF EX, EXIST	EDGE OF FAVEMENT EXISTING	_12"P	TREE
FG	FINISHED GRADE	0	P=PIN
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SSMH, SMH	SEWER MANHOLE	\$ <del>7</del> 0	FIRE H
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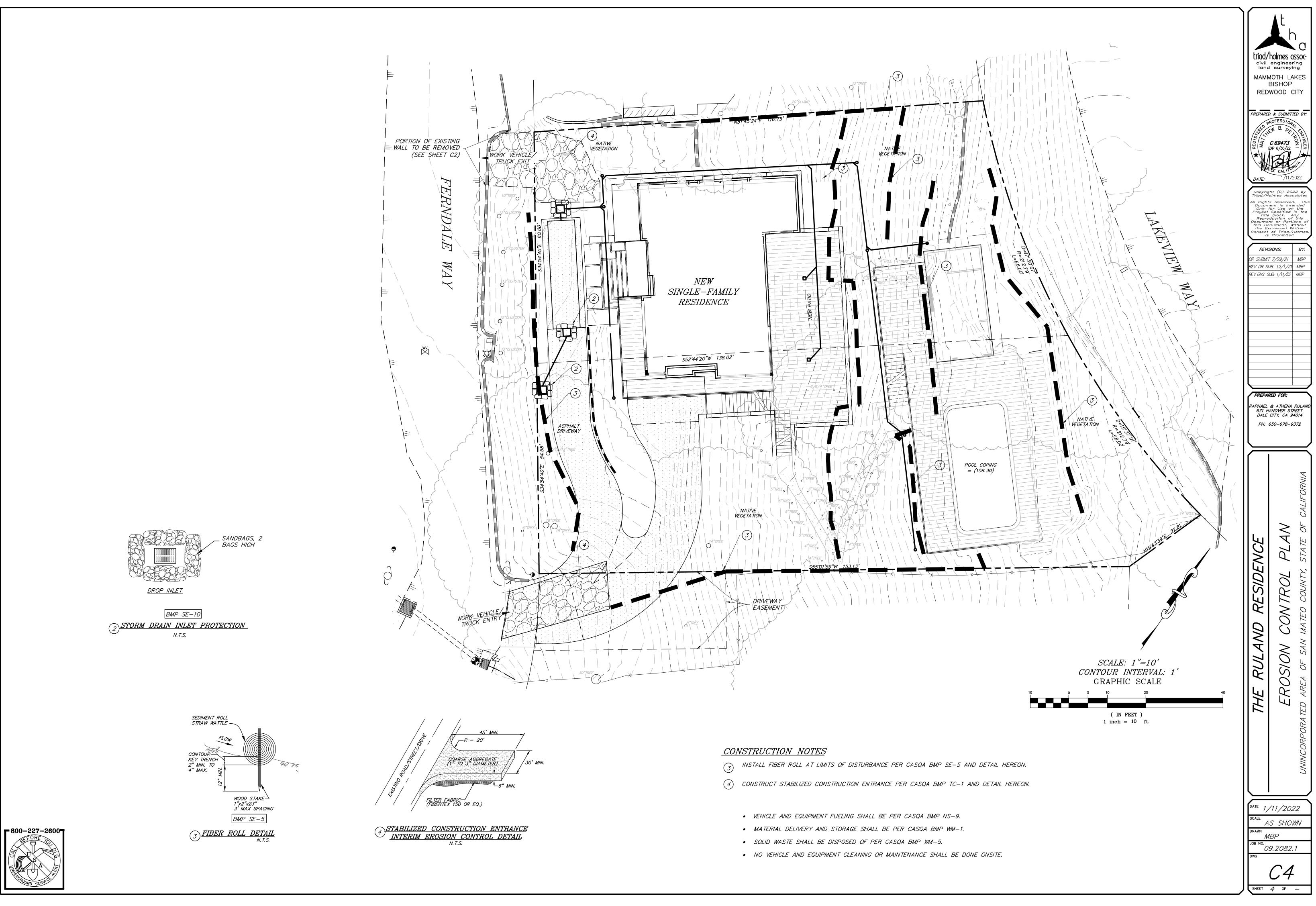
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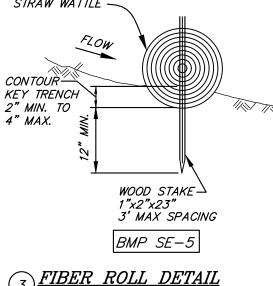


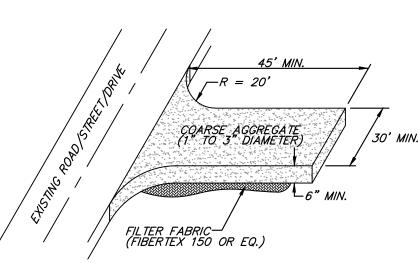












GENERAL TREE PROTECTION AND PRESERVATION GUIDELINES The objective of the tree protection and preservation guidelines is to provide the necessary information to ensure the continued health of existing trees within the proximity of construction dripline of existing trees to remain. and grading activities. Trees selected for preservation should be structurally sound and healthy so that they may survive any adverse impacts due to construction activity. Tree removal recommendations are based on conflicts with the proposed site improvements, noted supervised by the project arborist. deformities and potential failures related to such, and trees that present a hazard.

<u>1.0 Tree Documentation</u> 1.1 Indicate removal or preservation of all existing trees on an appropriately sized plan. Trees shall be identified and numbered as tagged on site. Accurate dripline locations for each tree to remain should be shown on all relevant plans (as shown on the Tree Inventory Plan). See attached.

2.0 Tree Protection 2.1 The majority of the sensitive root structure of a tree is located within the top 6 to 12 inches of soil. This leaves them vulnerable to soil compaction, often due to construction activity, which limits available oxygen leading to stress and potential

demise. This upper region of a tree is known as the critical root zone. 2.2 In an effort to protect the critical root zone, Tree Protective Fencing shall be erected. This temporary fencing will designate the Tree Protection Zone (TPZ). The fencing is a critical component to the preservation of existing trees. 2.3 Tree Protective Fencing should ideally be placed at the dripline of the tree to be protected, or beyond. However, the proximity of existing trees to the likely location of the entry drive and the proposed footprint of the residence, will compromise this objective. The following Tree Protective Fence criteria shall be employed:

2.3.1 Áll protective fencing shall be approved by the project arborist. The fencing is to remain in place until the end of construction activity. 2.3.2 We recommend the fence be aligned with any proposed building/retaining wall at the minimum distance which allows for the necessary excavation for wall installation (see Item 5.0).

2.3.3 Protective fencing shall be continuous orange polymer material ('snow fencing') mounted to steel posts driven firmly into ground (not mounted into concrete bases and set at grade). The spacing of the posts shall not exceed 6 feet in distance.

2.3.4 Protective fencing shall be clearly indicated with a laminated sign reading 'DO NOT ENTER'. The sign shall also indicate that the project arborist is the only designated individual who may open, move or modify the location of the protective fencing.

2.3.5 No excavated fill, chemicals, debris or equipment or any other materials shall be dumped or stored within the TPZ. 2.3.6 Fencing should be orange polymer, secured by metal posts driven a minimum of 24" into the ground.

2.3.7 A minimum 6" layer of mulch shall be applied to all areas within the Tree Protection Zone for trees that fall within 20 feet of site disturbances. The mulch will help alleviate soil compaction and moderate temperatures. 2.3.8 The use of hydrated lime or quick lime shall not be permitted within the vicinity of any existing trees.

3.0 Grading 3.1 The project arborist shall be on-site for all disturbances of grades within the 3.2 The existing grade shall be maintained within the Tree Protection Zone. Any changes in grade (cut or fill) shall be minimized and if undertaken shall be

3.3 Root pruning shall be determined on an individual basis for each tree. 3.4 Supplemental water must be readily available during excavation activities. The project arborist will determine if this is necessary due to construction impacts. Occasional spraying of the foliage with water to wash off dust will also be

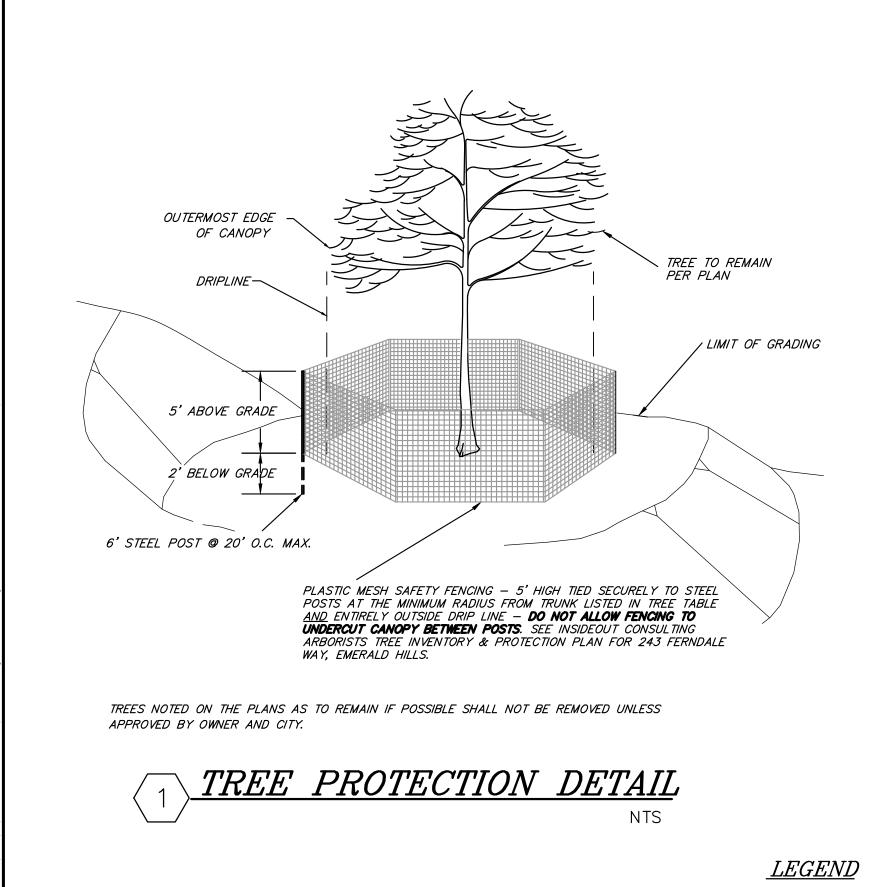
required. (See Item 6.1.4).

<u>4.0 Pruning</u> 4.1 Trees to be pruned for clearance shall be done prior to construction activities to avoid damage. 4.2 All pruning shall be supervised by the project arborist and done in accordance to ISA procedures by certified tree workers or under the supervision of the project arborist.

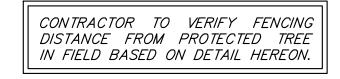
5.0 Retaining Walls and Architectural Foundations 5.1 Soil retention under the dripline of existing trees shall be sensitively designed to minimize root disturbance. 5.2 We recommend a pier and grade beam foundations to achieve minimal disturbance to the critical root zone. If a pier supported foundation wall is utilized, specify a

flexible design to accommodate adjustments in pier locations to avoid potential conflicts with roots as they are encountered in the field. We understand an ideal retaining wall system has associated costs. The costs of such a wall should be germane to the budget of overall site improvements.

TREE TO BE REMOVED





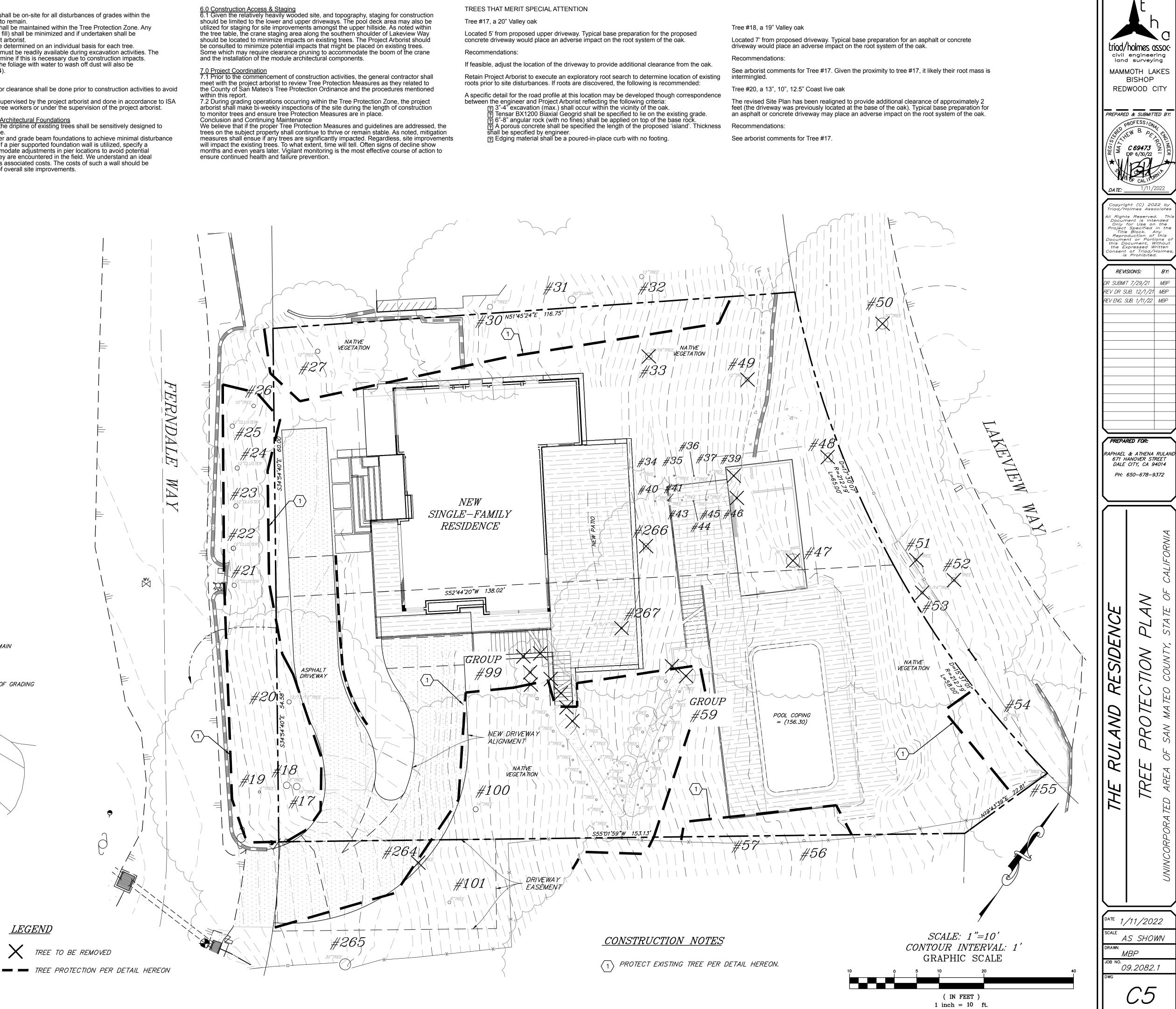




within this report.

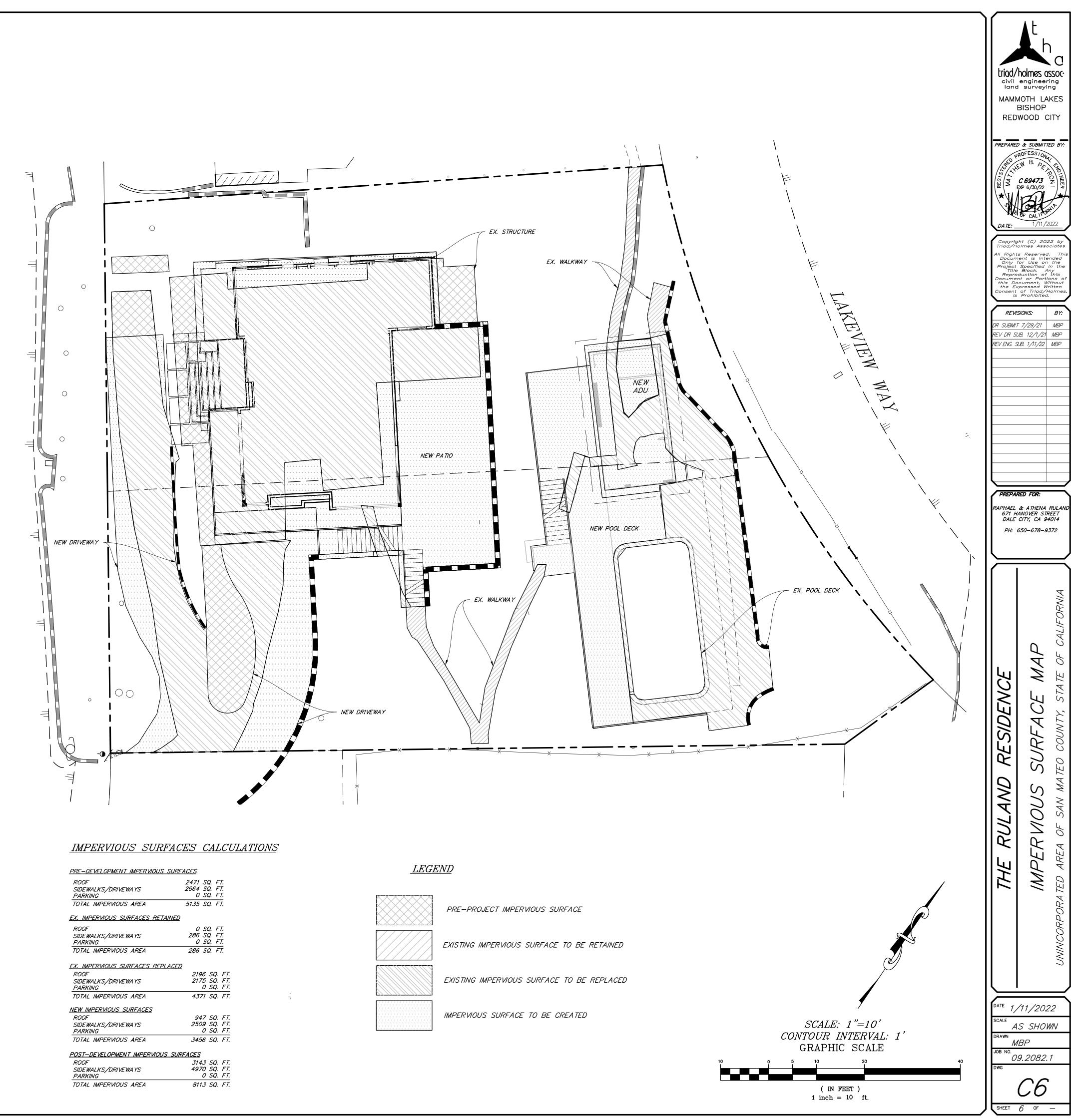
3"-4" excavation (max.) shall occur within the vicinity of the oak.

Edging material shall be a poured-in-place curb with no footing.



SHEET 5 OF -





<u> PRE-DEVELOPMENT IMPERVIOUS</u>	<u>SURFACES</u>
ROOF	2471 SQ. FT.
SIDEWALKS/DRIVEWAYS	2664 SQ. FT.
PARKING	0 SQ. FT.
TOTAL IMPERVIOUS AREA	5135 SQ. FT.
<u>EX. IMPERVIOUS SURFACES RETA</u>	INED
ROOF	0 SQ. FT.
SIDEWALKS/DRIVEWAYS	286 SQ. FT.
PARKING	0 SQ. FT.
TOTAL IMPERVIOUS AREA	286 SQ. FT.
EX. IMPERVIOUS SURFACES REPL	<u>ACED</u>
ROOF	2196 SQ. FT.
SIDEWALKS/DRIVEWAYS	2175 SQ. FT.
PARKING	0 SQ. FT.
TOTAL IMPERVIOUS AREA	4371 SQ. FT.
NEW IMPERVIOUS SURFACES	
ROOF	947 SQ. FT.
SIDEWALKS/DRIVEWAYS	2509 SQ. FT.
PARKING	0 SQ. FT.
TOTAL IMPERVIOUS AREA	3456 SQ. FT.
POST-DEVELOPMENT IMPERVIOUS	SURFACES
ROOF	3143 SQ. FT.
SIDEWALKS/DRIVEWAYS	4970 SQ. FT.
PARKING	0 SQ. FT.
TOTAL IMPERVIOUS AREA	8113 SQ. FT.



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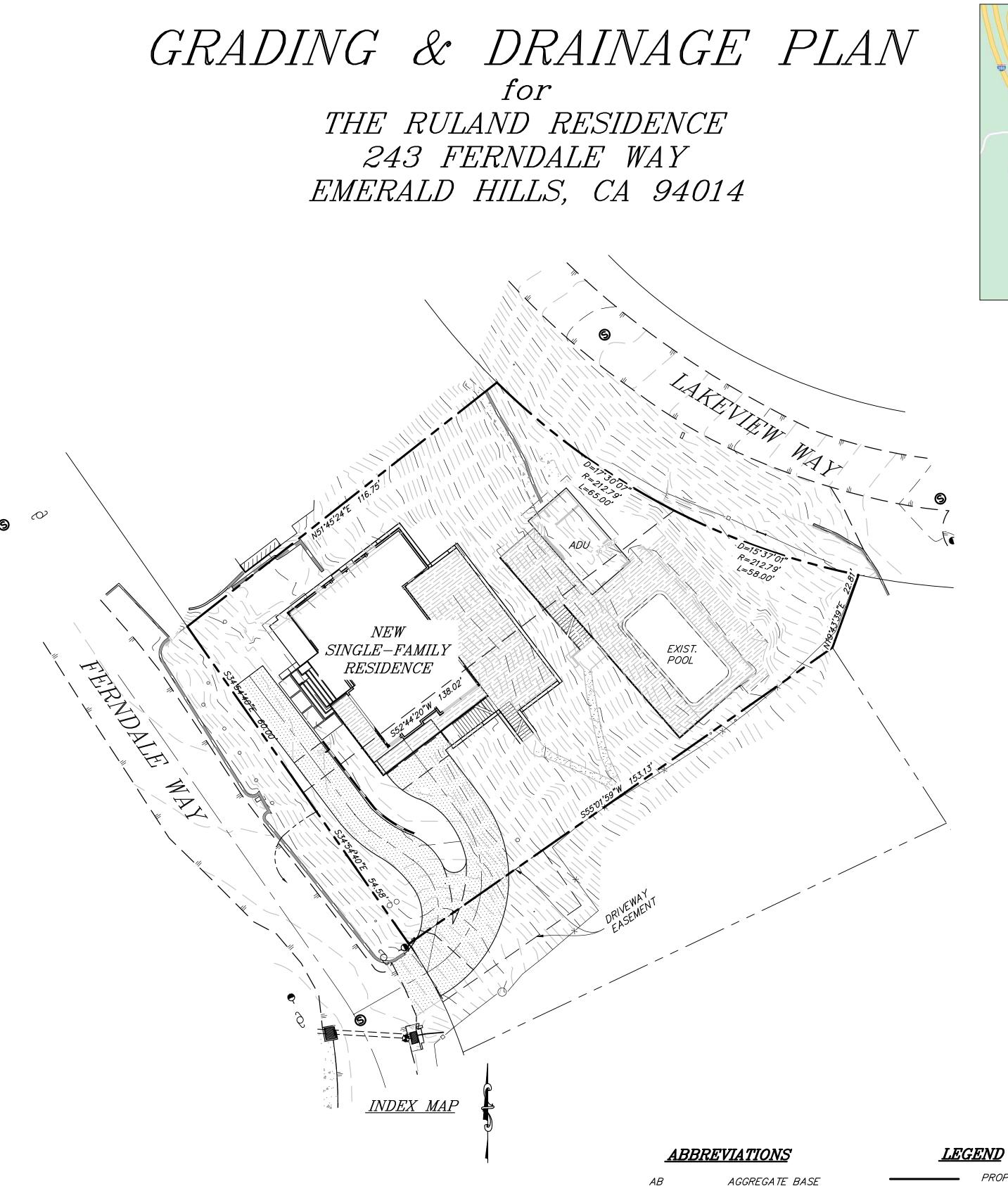
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- 4. SUB-GRADE SHALL BE APPROVED BY GEOTECHNICAL ENGINEER PRIOR TO PLACING FILL OR CONSTRUCTING STRUCTURES. SUB\*GRADE IN AREAS TO BE PAVED SHALL BE SCARIFIED, MOISTENED, AND COMPACTED TO A MINIMUM OF 95% OF THE MATERIALS MAXIMUM DRY DENSITY AS DETERMINED BY A.S.T.M. D-1557-78 FOR THE UPPER 12 INCHES. SUBGRADE IN NON-STRUCTURAL FILL AREAS SHALL BE SCARIFIED, MOISTENED, AND COMPACTED TO A MINIMUM OF 85% OF THE MATERIALS MAXIMUM DRY DENSITY AS DETERMINED BY A.S.T.M. D-1557-78 TO A DEPTH OF 12 INCHES.
- 5. CONTRACTOR SHALL TAKE ALL SUCH MEASURES NECESSARY TO CONTROL DUST IN CONSTRUCTION AREAS OR ON ACCESS ROADS. SOIL SURFACES SHALL BE MOISTENED AS REQUIRED TO AVOID ALL EXPOSED NUISANCE CONDITIONS AND INCONVENIENCES FOR LOCAL RESIDENTS AND TRAVELERS OF NEARBY ROADWAYS.
- 6. AGGREGATE BASE SHALL BE CLASS 2, 3/4–INCH MAXIMUM GRADING, AND SHALL CONFORM TO THE PROVISIONS OF SECTION 26, "AGGREGATE BASES," OF CALTRANS STANDARD SPECIFICATIONS AND SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE MATERIALS MAXIMUM DRY DENSITY AS DETERMINED BY A.S.T.M. D-1557-78.
- 7. ASPHALT CONCRETE SHALL BE TYPE B, 1/2–INCH MAXIMUM GRADING AND SHALL CONFORM TO THE PROVISIONS IN SECTION 39, "ASPHALT CONCRETE," OF THE CALTRANS STANDARD SPECIFICATIONS.
- 8. EARTH MATERIAL IMPORTED OR EXCAVATED ON THE PROPERTY MAY BE UTILIZED AS FILL IN STRUCTURAL FILL AREAS, PROVIDED THAT EACH MATERIAL HAS BEEN DETERMINED TO BE SUITABLE BY THE GEOTECHNICAL ENGINEER. ALL FILL SHALL BE FREE OF ORGANIC AND OTHER DELETERIOUS MATERIAL. SOILS OF POOR GRADATION, EXPANSION POTENTIAL, OR STRENGTH CHARACTERISTICS SHALL BE PLACED IN AREAS DESIGNATED BY THE GEOTECHNICAL ENGINEER OR SHALL BE MIXED WITH WITH OTHER SOILS TO SERVICE AS SATISFACTORY SOIL MATERIAL.
- 9. ALL EXISTING STRUCTURES WILL BE REMOVED PRIOR TO ANY IMPROVEMENTS.

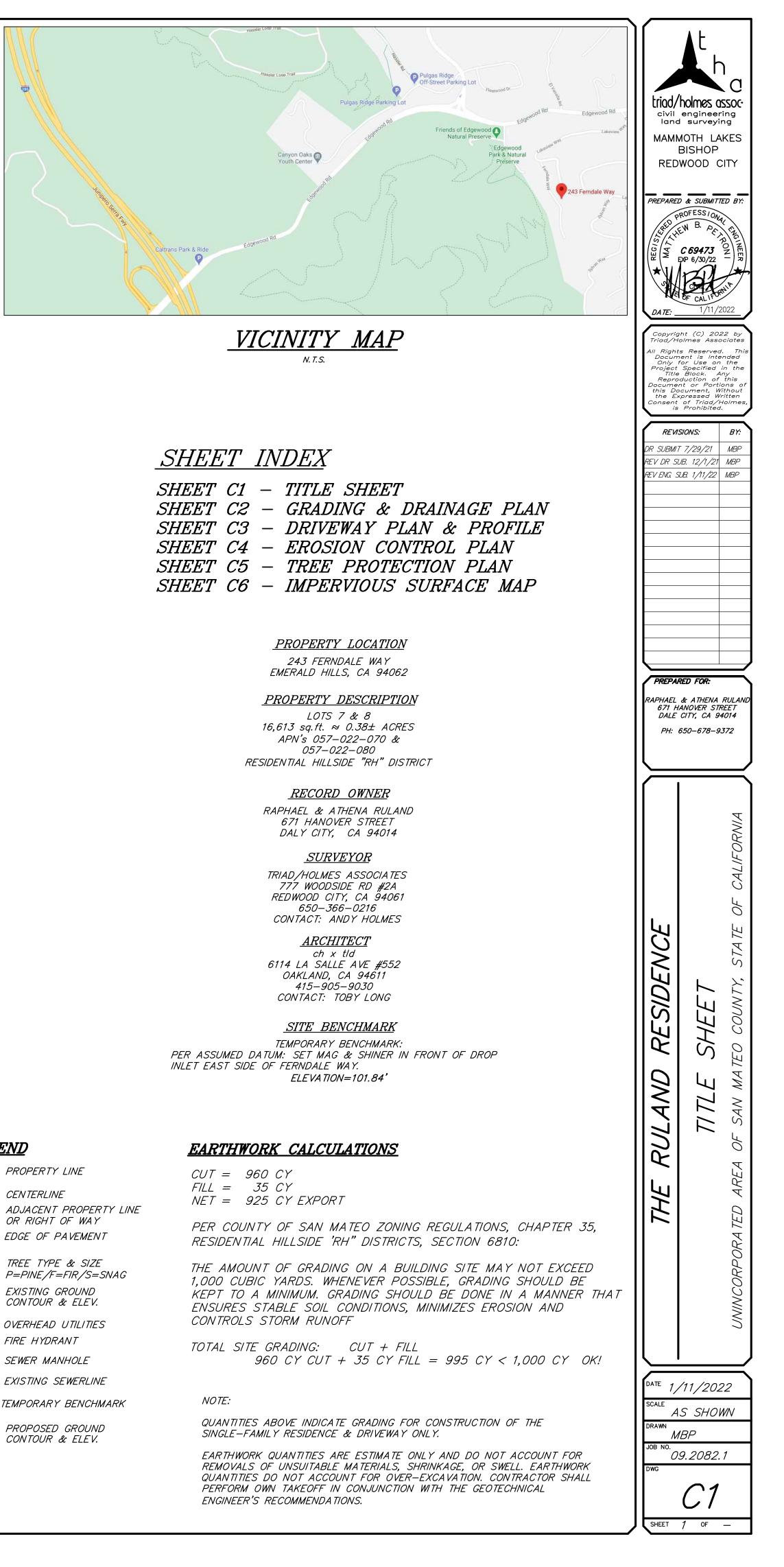
## NOTE:

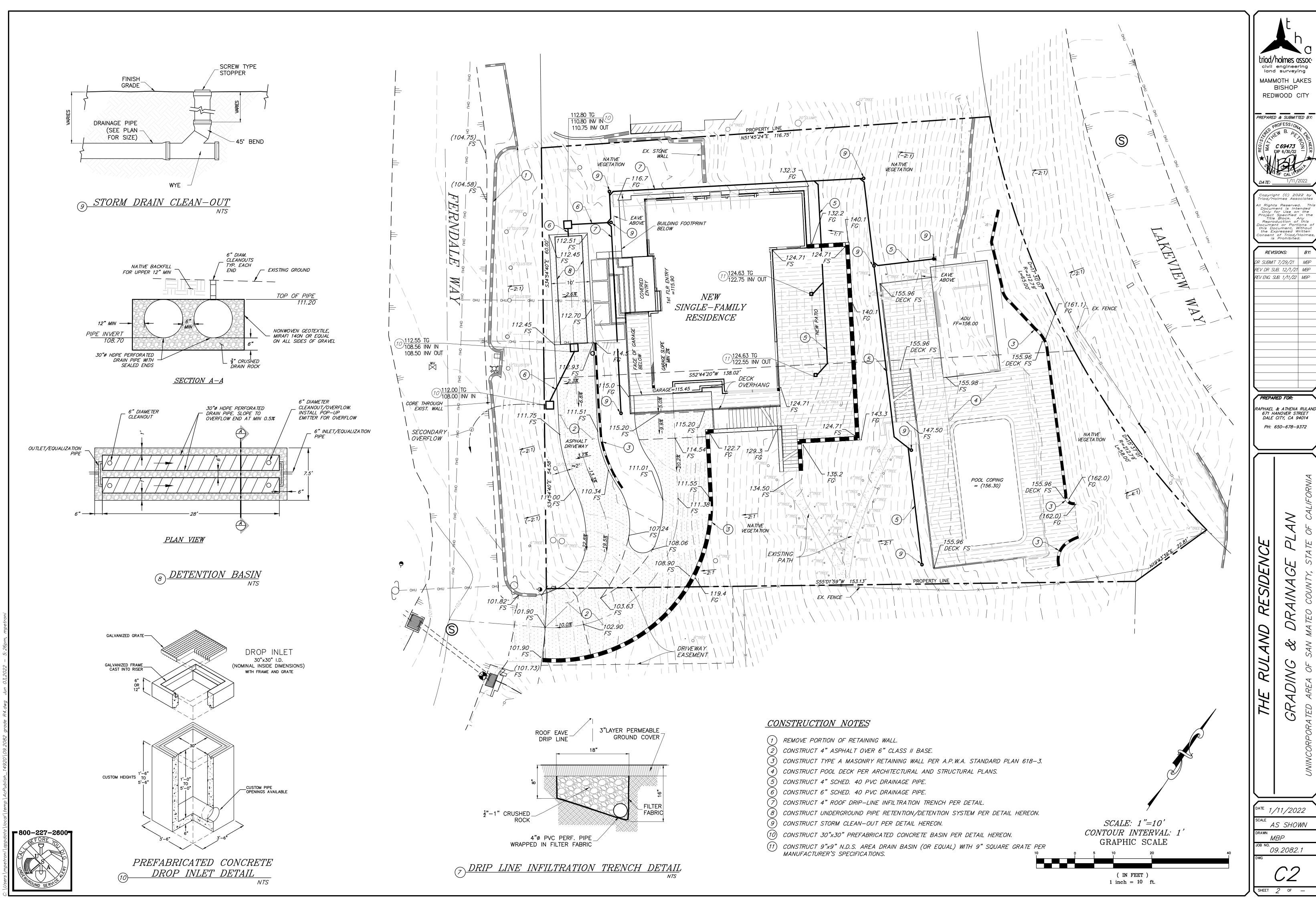
IF UNDERGROUND UTILITIES ARE SHOWN HEREON, IT IS FOR INFORMATION ONLY AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID INFORMATION. FIELD VERIFY LOCATIONS PRIOR TO CONSTRUCTION.

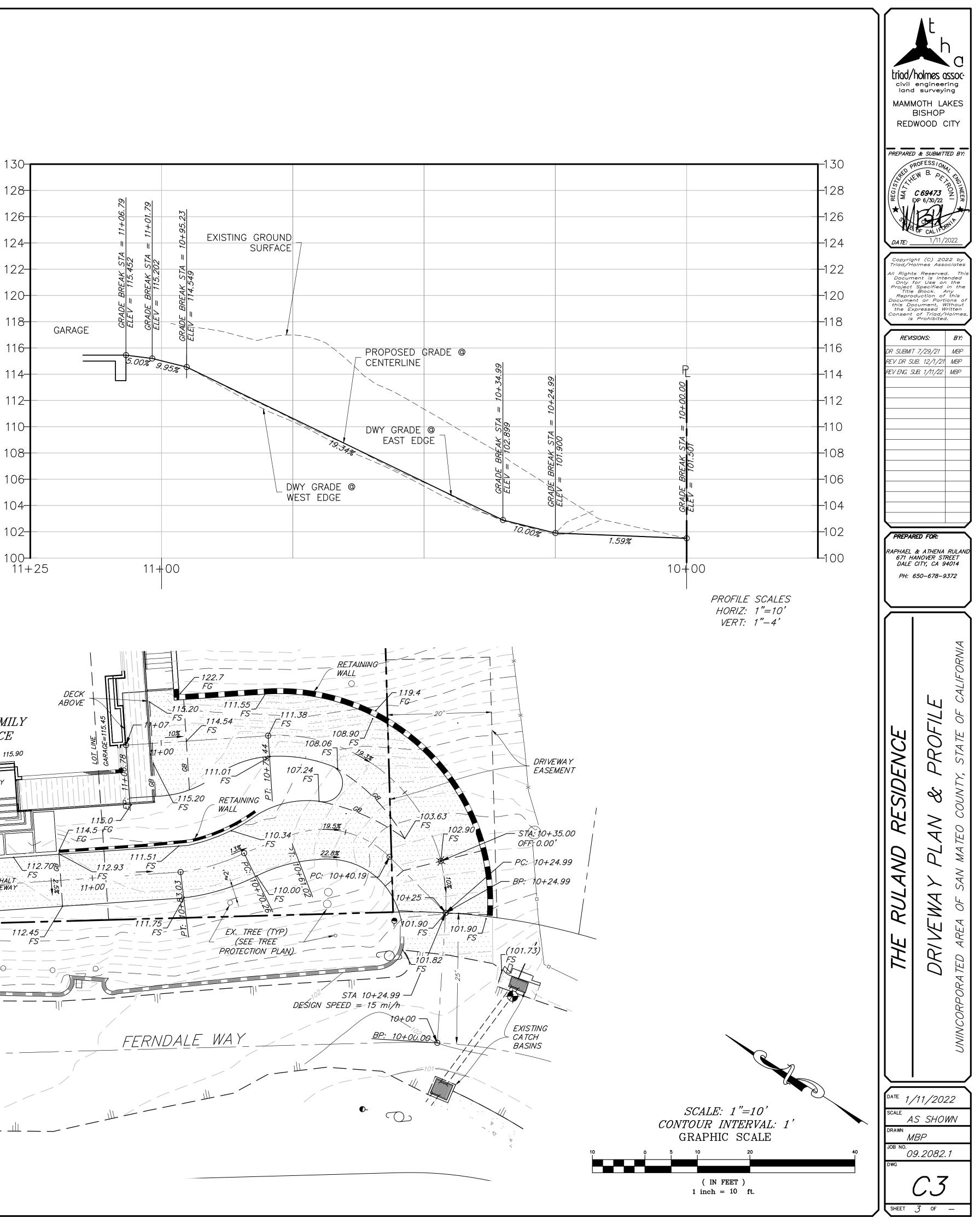


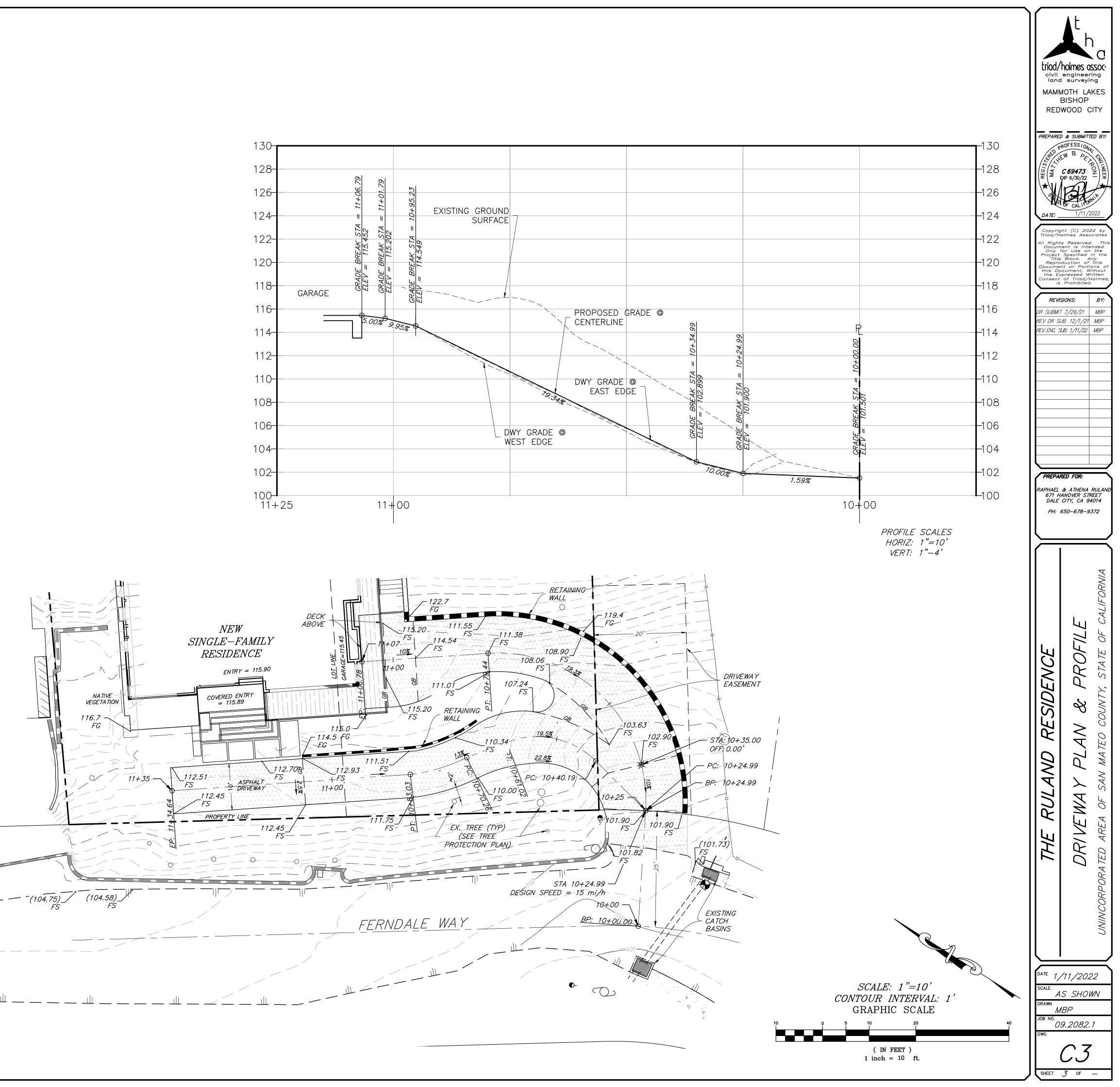
AB	AGGREGATE BASE		PROPE
AC BOS	ASPHALT CONCRETE BOTTOM OF STAIR		CENTE
CL	CENTERLINE		ADJAC
CONC	CONCRETE		OR RIC
CMP	CORRUGATED METAL PIPE	Ш	EDGE (
EG EP	EXISTING GRADE EDGE OF PAVEMENT		
EF EX, EXIST	EDGE OF FAVEMENT EXISTING	_12"P	TREE
FG	FINISHED GRADE	0	P=PIN
FL	FLOW LINE		EXISTII
FS INV	FINISHED SURFACE INVERT	1005	CONTO
NTS	NOT TO SCALE	0144	<u> </u>
PL	PROPERTY LINE	OHU	OVERH
SSMH, SMH	SEWER MANHOLE	\$ <del>7</del> 0	FIRE H
SS TC	SANITARY SEWER TOP OF CURB	S	SEWER
TF	TOP OF FOOTING	0	
TG	TOP OF GRATE	<i>SS</i>	EXISTIN
TOS TW	TOP OF STAIR TOP OF WALL	🕂 твм	TEMPOR
WV	WATER VALVE	Ų IDIM	0/
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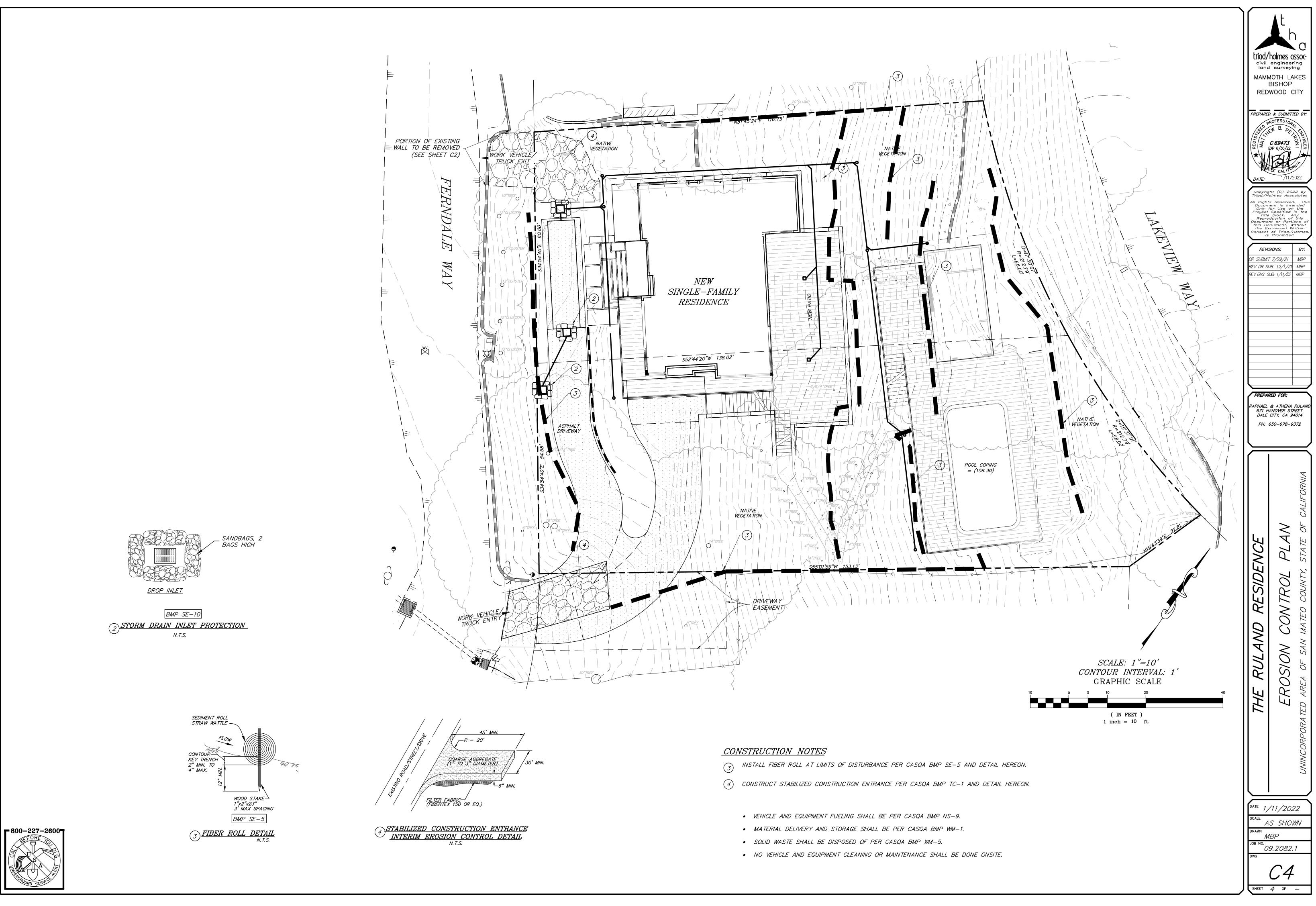
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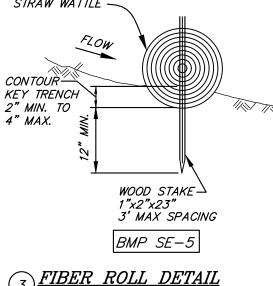


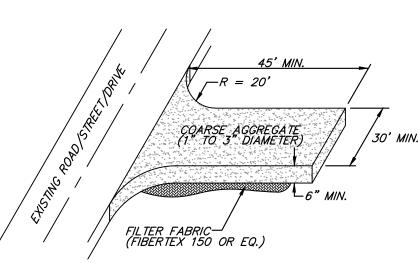












GENERAL TREE PROTECTION AND PRESERVATION GUIDELINES The objective of the tree protection and preservation guidelines is to provide the necessary information to ensure the continued health of existing trees within the proximity of construction dripline of existing trees to remain. and grading activities. Trees selected for preservation should be structurally sound and healthy so that they may survive any adverse impacts due to construction activity. Tree removal recommendations are based on conflicts with the proposed site improvements, noted supervised by the project arborist. deformities and potential failures related to such, and trees that present a hazard.

<u>1.0 Tree Documentation</u> 1.1 Indicate removal or preservation of all existing trees on an appropriately sized plan. Trees shall be identified and numbered as tagged on site. Accurate dripline locations for each tree to remain should be shown on all relevant plans (as shown on the Tree Inventory Plan). See attached.

2.0 Tree Protection 2.1 The majority of the sensitive root structure of a tree is located within the top 6 to 12 inches of soil. This leaves them vulnerable to soil compaction, often due to construction activity, which limits available oxygen leading to stress and potential

demise. This upper region of a tree is known as the critical root zone. 2.2 In an effort to protect the critical root zone, Tree Protective Fencing shall be erected. This temporary fencing will designate the Tree Protection Zone (TPZ). The fencing is a critical component to the preservation of existing trees. 2.3 Tree Protective Fencing should ideally be placed at the dripline of the tree to be protected, or beyond. However, the proximity of existing trees to the likely location of the entry drive and the proposed footprint of the residence, will compromise this objective. The following Tree Protective Fence criteria shall be employed:

2.3.1 Áll protective fencing shall be approved by the project arborist. The fencing is to remain in place until the end of construction activity. 2.3.2 We recommend the fence be aligned with any proposed building/retaining wall at the minimum distance which allows for the necessary excavation for wall installation (see Item 5.0).

2.3.3 Protective fencing shall be continuous orange polymer material ('snow fencing') mounted to steel posts driven firmly into ground (not mounted into concrete bases and set at grade). The spacing of the posts shall not exceed 6 feet in distance.

2.3.4 Protective fencing shall be clearly indicated with a laminated sign reading 'DO NOT ENTER'. The sign shall also indicate that the project arborist is the only designated individual who may open, move or modify the location of the protective fencing.

2.3.5 No excavated fill, chemicals, debris or equipment or any other materials shall be dumped or stored within the TPZ. 2.3.6 Fencing should be orange polymer, secured by metal posts driven a minimum of 24" into the ground.

2.3.7 A minimum 6" layer of mulch shall be applied to all areas within the Tree Protection Zone for trees that fall within 20 feet of site disturbances. The mulch will help alleviate soil compaction and moderate temperatures. 2.3.8 The use of hydrated lime or quick lime shall not be permitted within the vicinity of any existing trees.

3.0 Grading 3.1 The project arborist shall be on-site for all disturbances of grades within the 3.2 The existing grade shall be maintained within the Tree Protection Zone. Any changes in grade (cut or fill) shall be minimized and if undertaken shall be

3.3 Root pruning shall be determined on an individual basis for each tree. 3.4 Supplemental water must be readily available during excavation activities. The project arborist will determine if this is necessary due to construction impacts. Occasional spraying of the foliage with water to wash off dust will also be

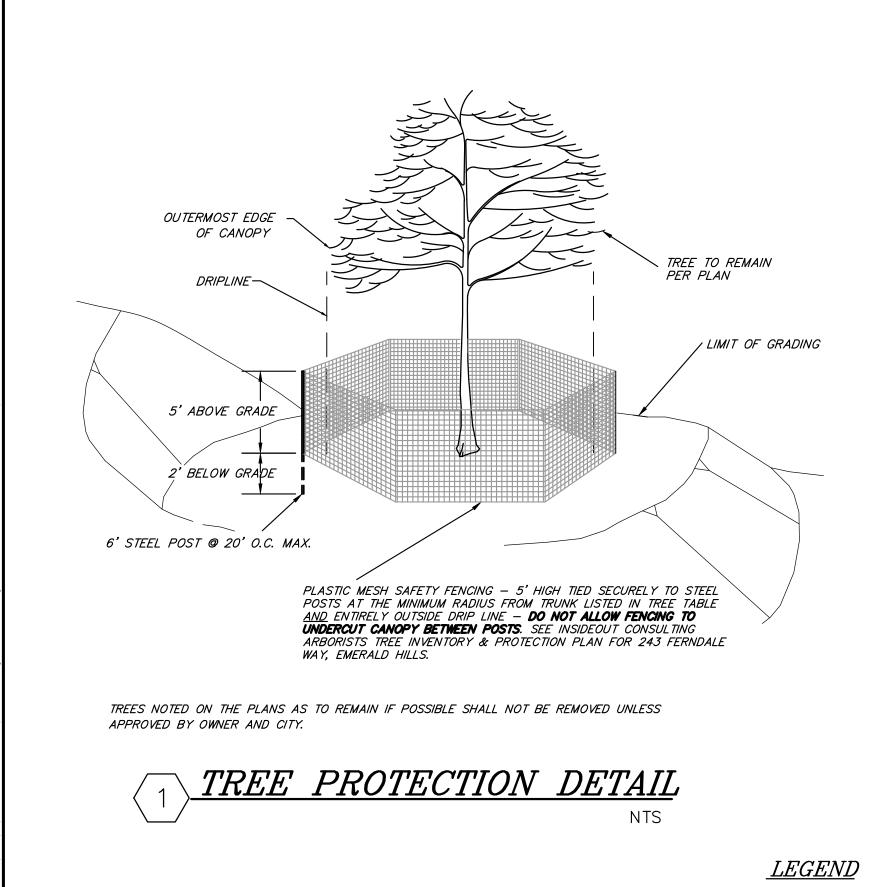
required. (See Item 6.1.4).

<u>4.0 Pruning</u> 4.1 Trees to be pruned for clearance shall be done prior to construction activities to avoid damage. 4.2 All pruning shall be supervised by the project arborist and done in accordance to ISA procedures by certified tree workers or under the supervision of the project arborist.

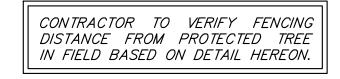
5.0 Retaining Walls and Architectural Foundations 5.1 Soil retention under the dripline of existing trees shall be sensitively designed to minimize root disturbance. 5.2 We recommend a pier and grade beam foundations to achieve minimal disturbance to the critical root zone. If a pier supported foundation wall is utilized, specify a

flexible design to accommodate adjustments in pier locations to avoid potential conflicts with roots as they are encountered in the field. We understand an ideal retaining wall system has associated costs. The costs of such a wall should be germane to the budget of overall site improvements.

TREE TO BE REMOVED





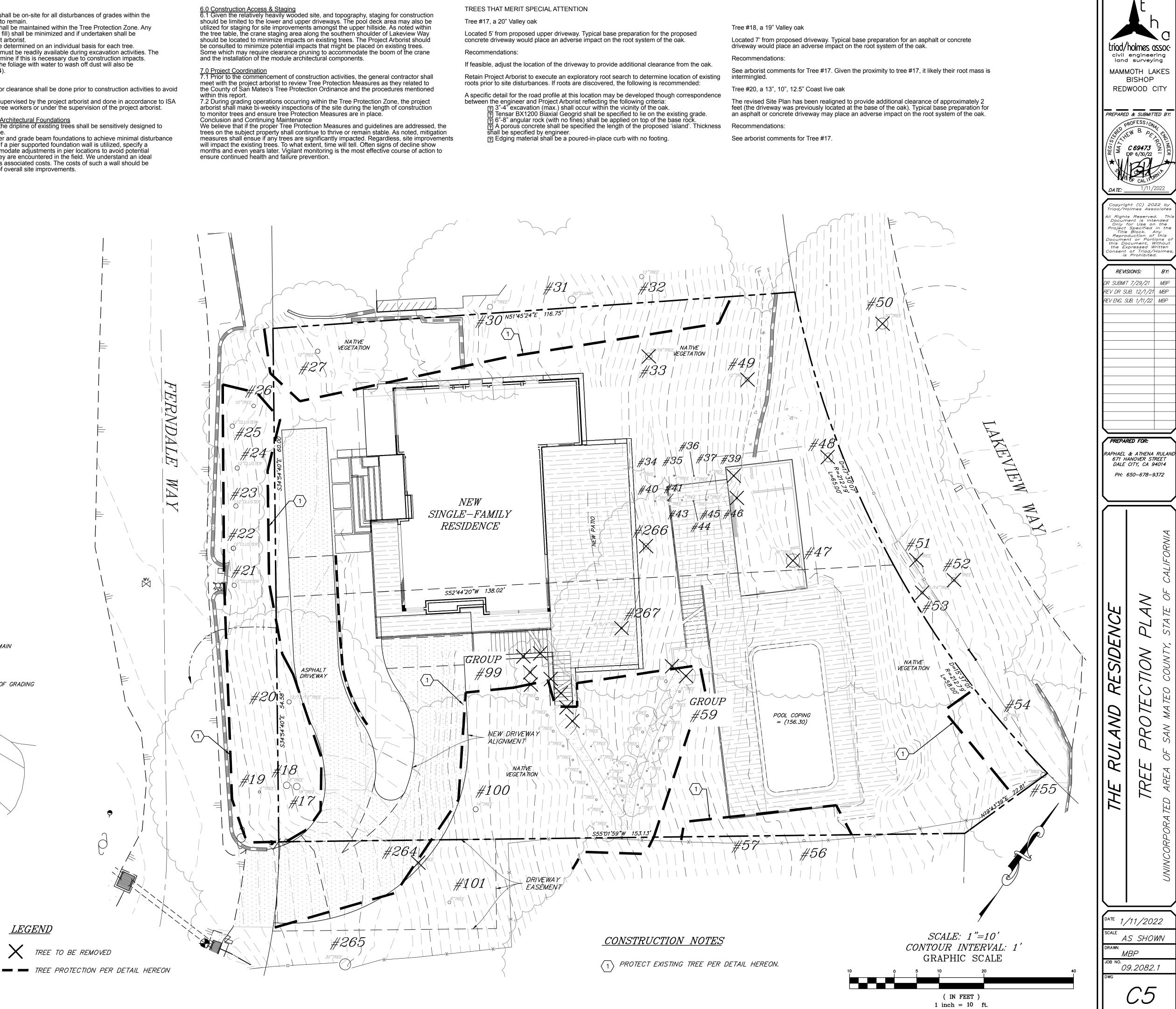




within this report.

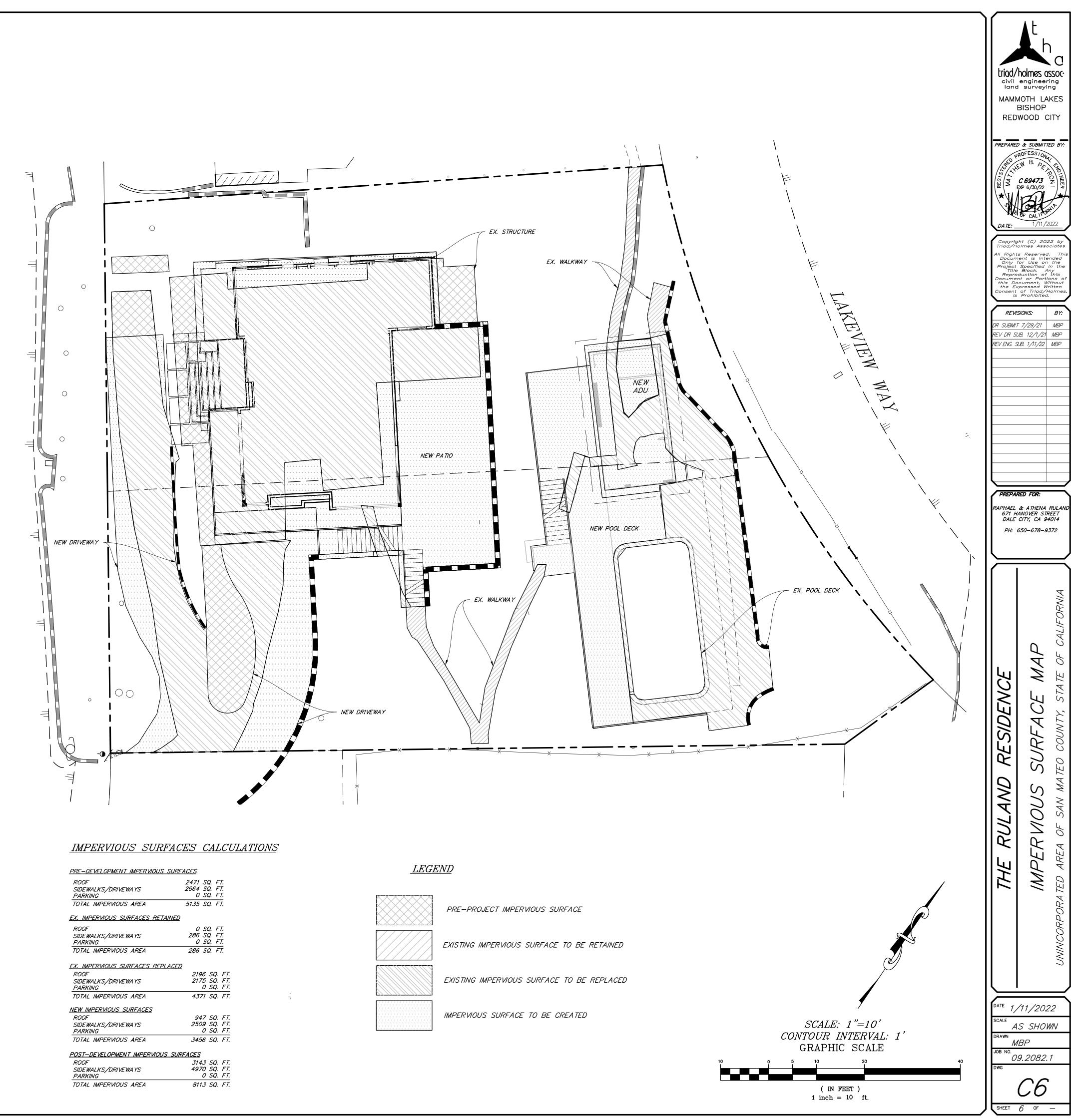
3"-4" excavation (max.) shall occur within the vicinity of the oak.

Edging material shall be a poured-in-place curb with no footing.



SHEET 5 OF -



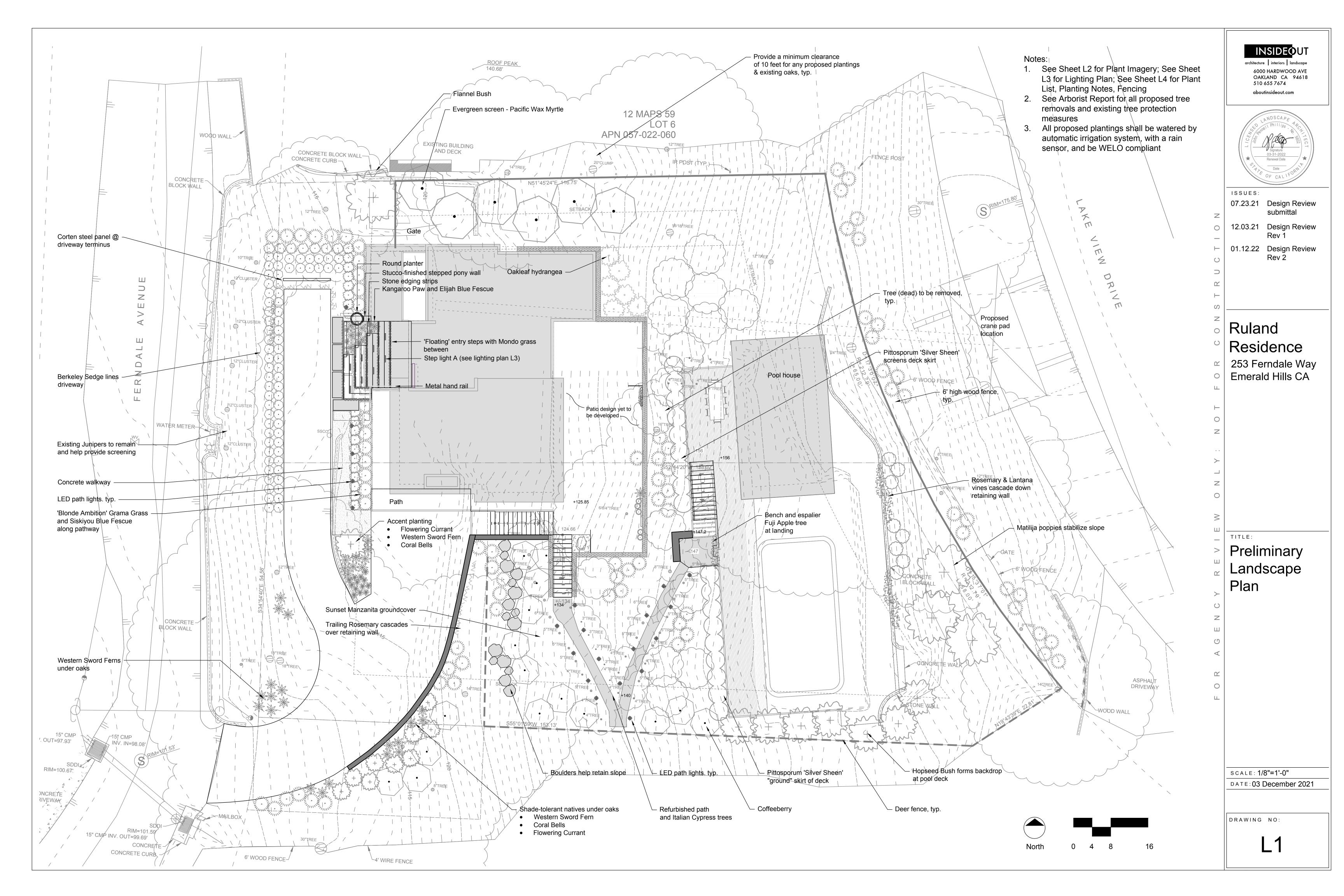


<u> PRE-DEVELOPMENT IMPERVIOUS</u>	<u>SURFACES</u>
ROOF	2471 SQ. FT.
SIDEWALKS/DRIVEWAYS	2664 SQ. FT.
PARKING	0 SQ. FT.
TOTAL IMPERVIOUS AREA	5135 SQ. FT.
<u>EX. IMPERVIOUS SURFACES RETA</u>	INED
ROOF	0 SQ. FT.
SIDEWALKS/DRIVEWAYS	286 SQ. FT.
PARKING	0 SQ. FT.
TOTAL IMPERVIOUS AREA	286 SQ. FT.
EX. IMPERVIOUS SURFACES REPL	<u>ACED</u>
ROOF	2196 SQ. FT.
SIDEWALKS/DRIVEWAYS	2175 SQ. FT.
PARKING	0 SQ. FT.
TOTAL IMPERVIOUS AREA	4371 SQ. FT.
NEW IMPERVIOUS SURFACES	
ROOF	947 SQ. FT.
SIDEWALKS/DRIVEWAYS	2509 SQ. FT.
PARKING	0 SQ. FT.
TOTAL IMPERVIOUS AREA	3456 SQ. FT.
POST-DEVELOPMENT IMPERVIOUS	SURFACES
ROOF	3143 SQ. FT.
SIDEWALKS/DRIVEWAYS	4970 SQ. FT.
PARKING	0 SQ. FT.
TOTAL IMPERVIOUS AREA	8113 SQ. FT.



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## PLANT PALETTE



FRONT YARD - Kangaroo Paw, Blonde Ambition Grama Grass, Blue Fescue, Berkeley Sedge, Coral Bells, Western Sword Fern





BACK YARD - Matilija Poppy, Purple Hopseed Bush, Trailing Rosemary, Fuji Apple Espalier, Grace Smoke Tree



SIDE YARDS - Flannel Bush, Pacific Wax Myrtle, Deer Grass, Wild Lilac





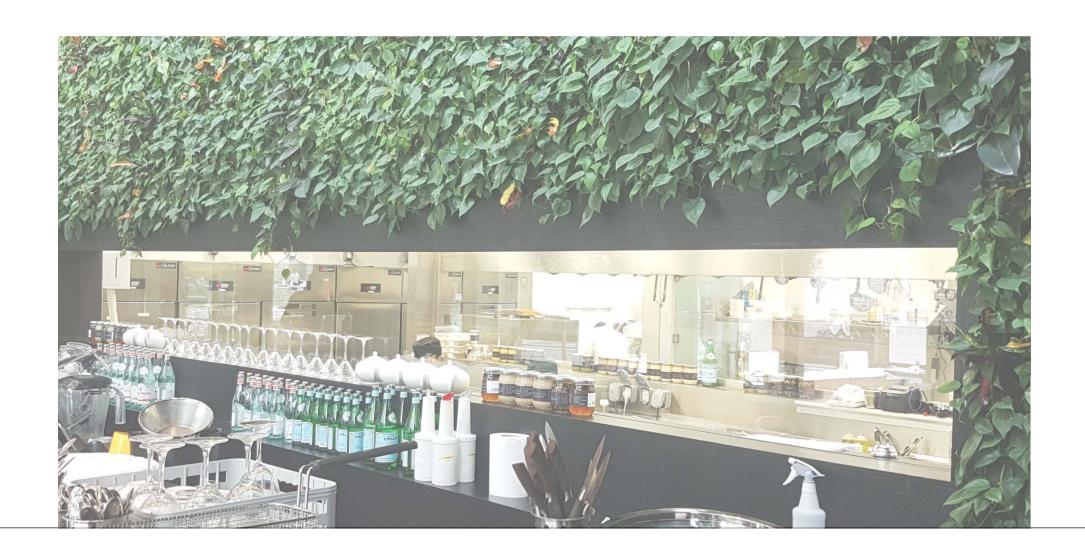








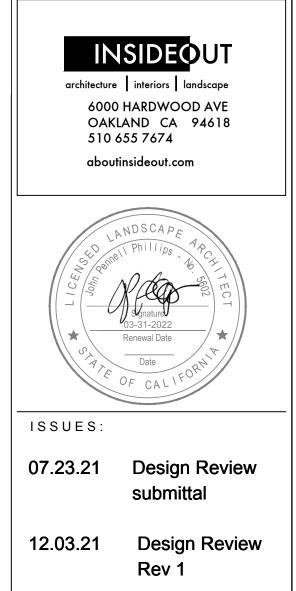
FLORAL CHARACTER - Currant, Lantana, Oakleaf Hydrangea















Ruland Residence

253 Ferndale Way Emerald Hills CA

TITLE:

Landscape Imagery

SCALE: DATE: 23 JULY 2021

DRAWING NO:



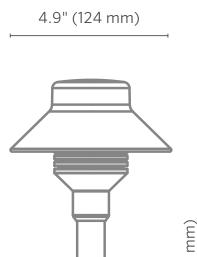
## LIGHTING

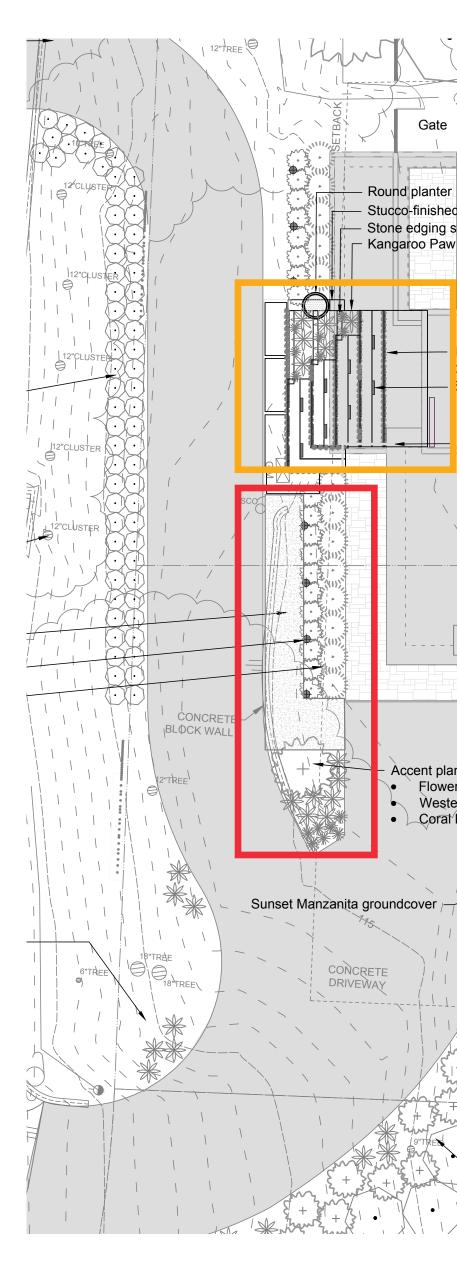


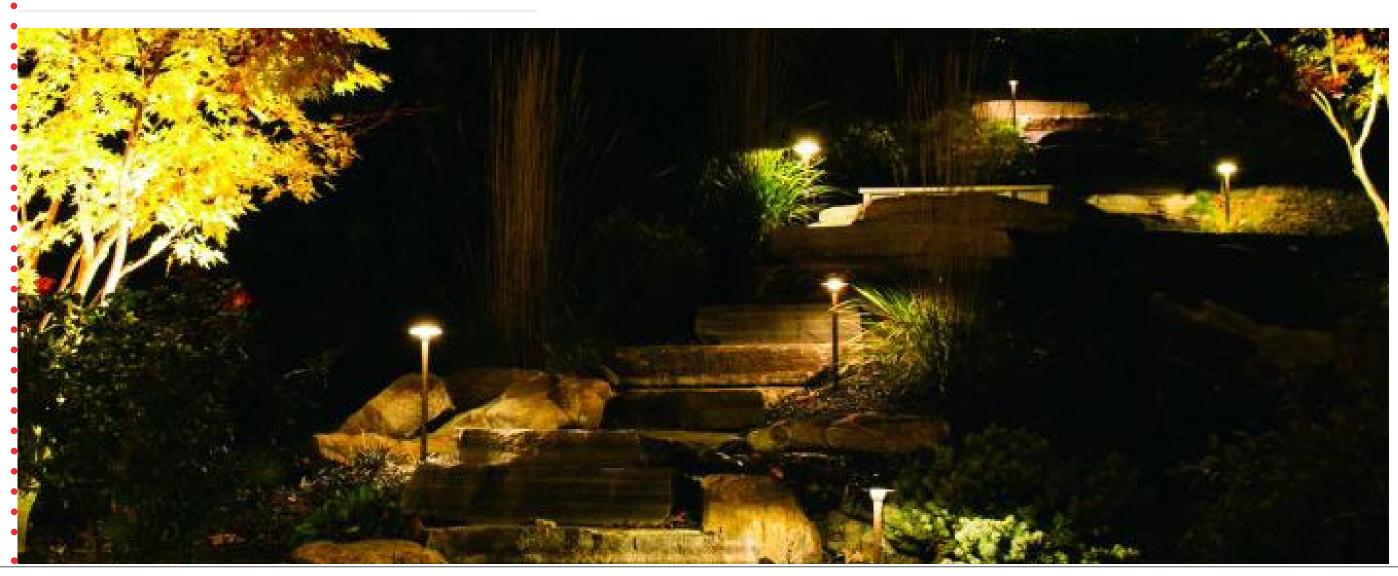
PATHS

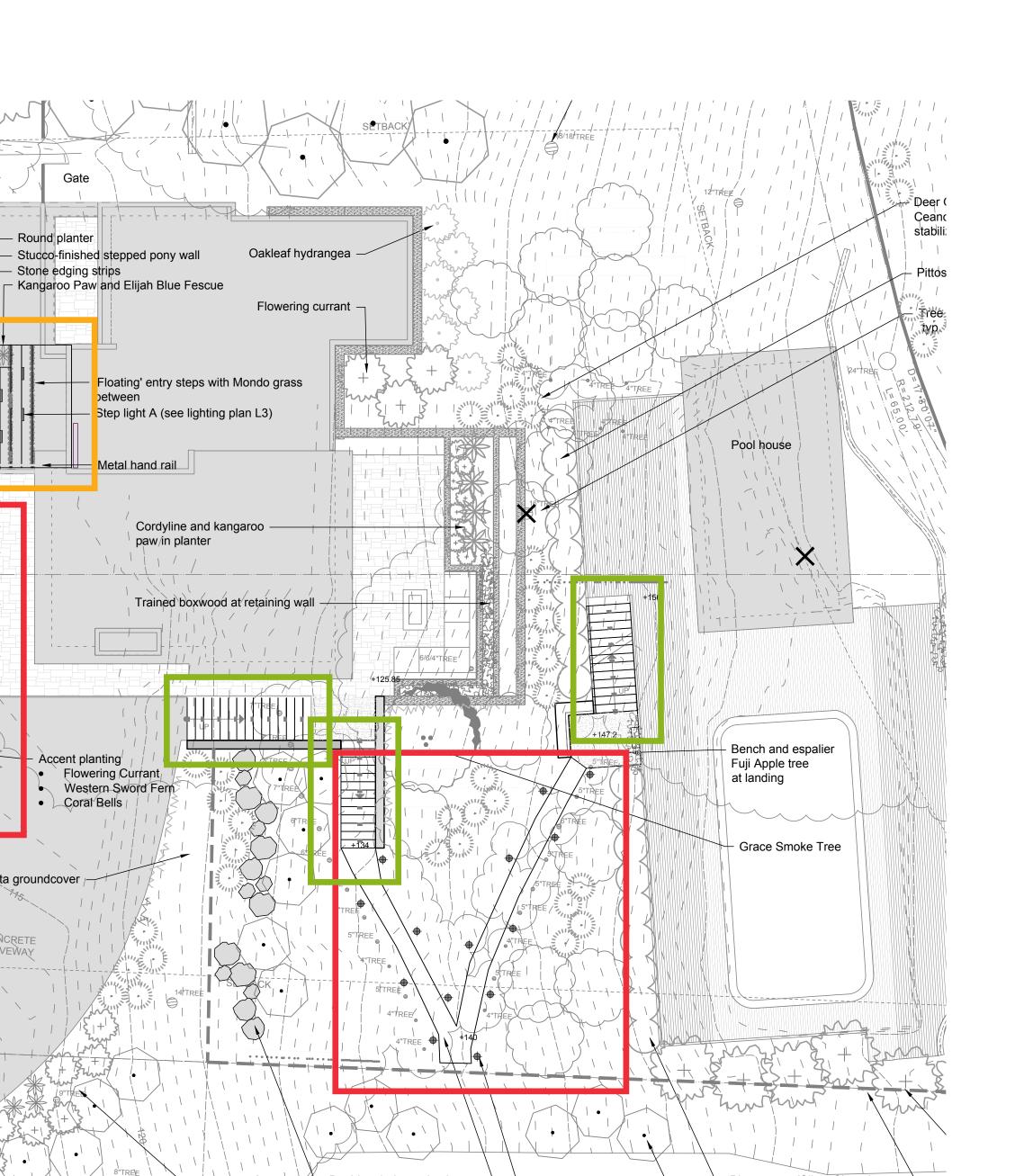


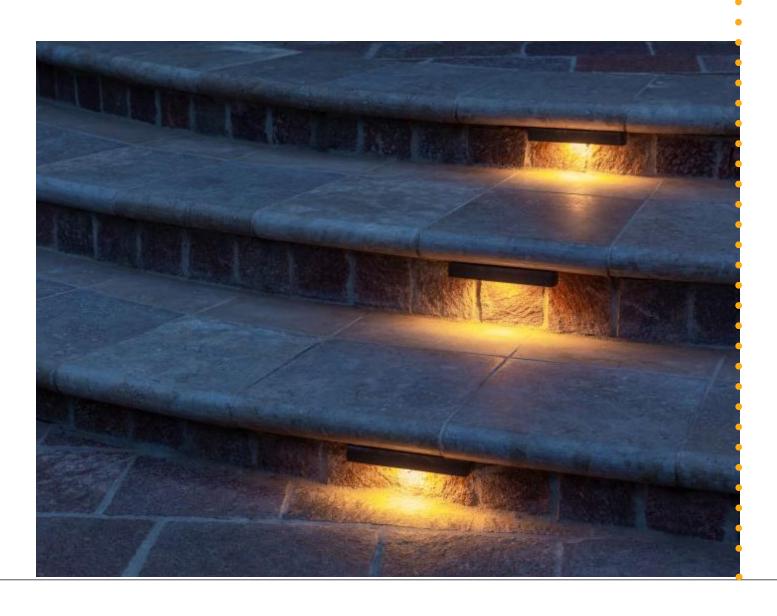
**FX Luminaire -** TM LED Path Light















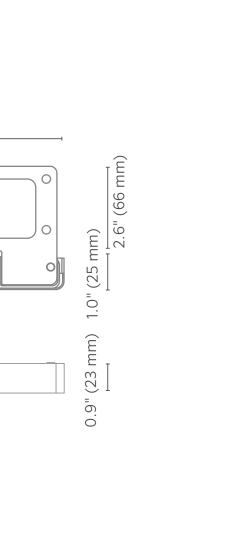
**FX Luminaire** LF LED Wall Light

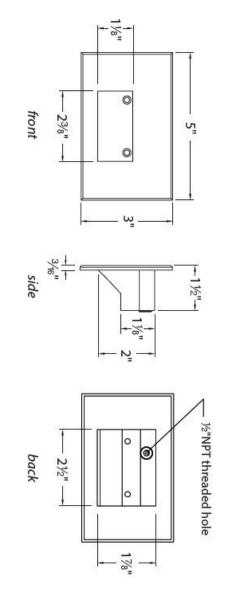
6.7" (170 mm)



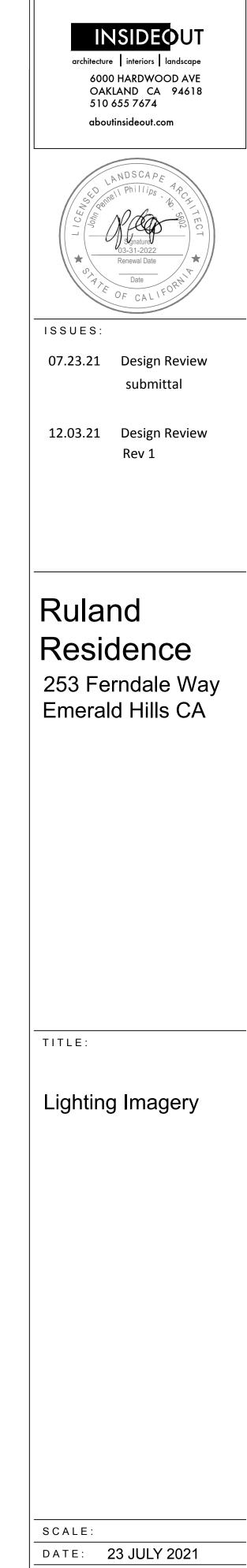
STEPS-a STEPS-b

WAC Lighting LEDme Step Light









DRAWING NO:

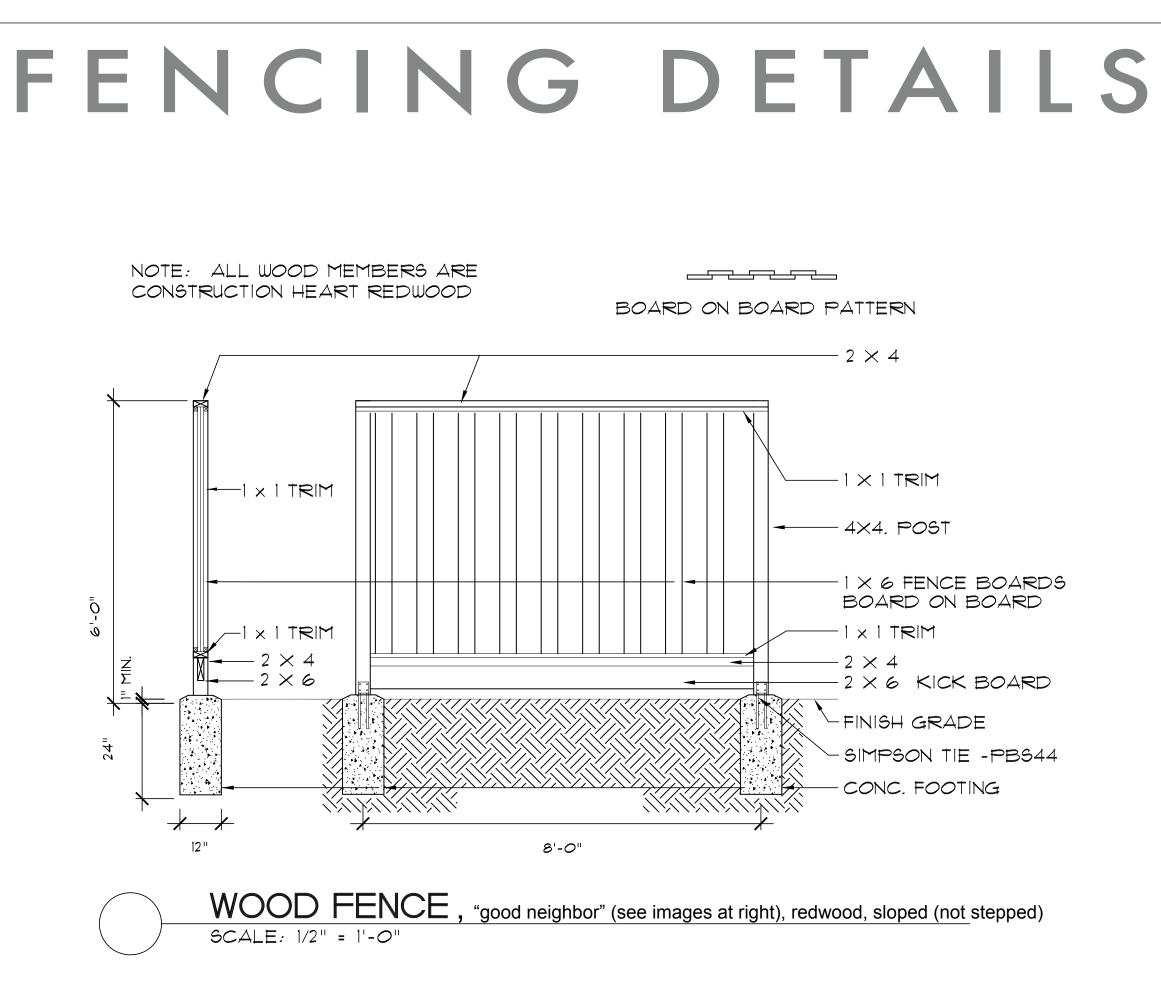
L3

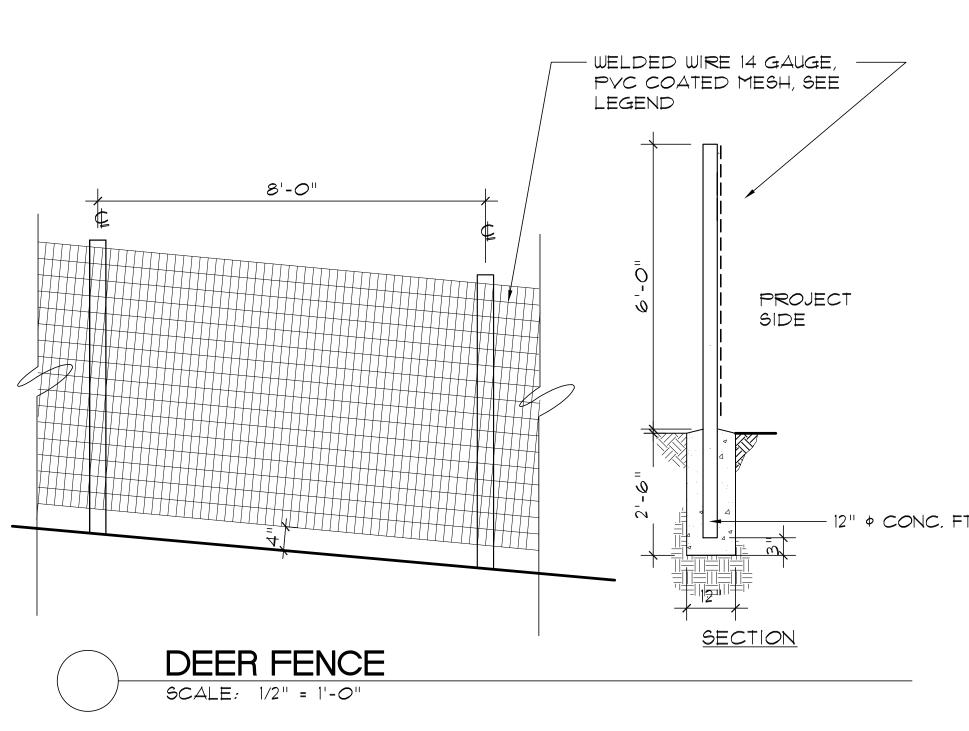
## PLANT LIST

Index	Latin Name	Common Name	Size	Spacing	WELO
Trees					
CG	Cotinus x 'Grace'	Grace Smoke Tree	5 gallon	As Shown	L
FM	Fremontodendren californicum 'Ken Taylor'	Flannel Bush	15 gallon	As Shown	L
MD	Malus domestica 'Fuji'	Fuji Apple	15 gallon	As Shown	Μ
РТ	Pittosporum tenuifolium 'Silver Sheen'	Pittosporum 'Silver Sheen'	5 gallon	4'-0" o.c.	Μ
Shrubs					
AD	Asparagus densiflora	Myer Asparagus Fern	1 gallon	2'-0" o.c.	Μ
AF	Anigozanthos flavidus' Bush Ranger'	Kangaroo Paw	1 gallon	2'-0" o.c.	L
CA	Calamagrostis x acutiflora 'Karl Foerster'	Feather Reed Grass	1 gallon	2'-0" o.c.	Μ
CD	Carex divulsa	Berkeley Sedge	4" pots	2'-0" o.c.	L
CF	Cordyline 'Festival Lime'	NCN	1 gallon	2'-6" o.c.	Μ
DV	Dodonea viscosa 'Purperea'	Hopseed Bush	5 gallon	8'-0" o.c.	L
FC	Frangula californica	Coffeeberry	5 gallon	8'-0" o.c.	L
HQ	Hydrangea quercifolia 'Brido'	Snowflake Oakleaf Hydrangea	5 gallon	4'-0" o.c.	Μ
LC	Loropetalum chinense 'Chang Nian Hong'	Ever Red Fringe Flower	5 gallon	4'-0" o.c.	L
LL	Lomandra longifolia 'Breeze'	Dwarf Mat Rush	1 gallon	2'-0" o.c.	L
LS	Leucadendron salignum 'Blush'	NCN	5 gallon	4'-0" o.c.	L
MC	Myrica californica	Pacific Wax Myrtle	5 gallon	6'-0" o.c.	Μ
MR	Muhlenbergia rigens	Deer Grass	1 gallon	2'-6" o.c.	L
PM	Polystichum minutum	Western Sword Fern	1 gallon	2'-6" o.c.	L
PO	Pennisetum orientale	Fountain Grass	1 gallon	2'-6" o.c.	Μ
RC	Romneya coulteri 'White Cloud'	Matilija Poppy	5 gallon	8'-0" o.c.	L
RS	Ribes sanguineum	Flowering Currant	5 gallon	6'-0" o.c.	L
Groundco	vers & Vines				
AS	Arctostaphylos Sunset	Sunset Manzanita	1 gallon	1'-6" o.c.	L
BG	Bouteloua gracilis 'Blonde Ambition'	Blue Grama Grass	1 gallon	3'-0" o.c.	L
СН	Ceanothus horizontalis 'Carmel Creeper'	Carmel Creeper Wild Lilac	1 gallon	8'-0" o.c.	L
FE	Festuca glauca 'Elijah Blue'	Elijah Blue Fescue	1 gallon	1'-0" o.c.	L
FS	Festuca glauca 'Siskiyou blue'	Siskiyou Blue Fescue	1 gallon	2'-0" o.c.	L
НМ	Heuchera maxima 'Alum Root'	Coral Bells	1 gallon	2'-0" o.c.	Μ
LM	Lantana montevidensis	Trailing Lantana	1 gallon	8'-0" o.c.	L
OJ	Ophiopogon japonicus	Mondo Grass	4 inches	0'-6" o.c.	Μ
RO	Rosemarinus officinalis 'Prostratus'	Trailing Rosemary	1 gallon	6'-0" o.c.	L

## PLANTING NOTES

- 1. All work shall be performed by persons familiar with planting work and under the supervision of a qualifie plant foreman.
- 2. Plant material locations shown are diagrammatic and may be subject to change in the fiel by the Landscape Architect (LA).
- 3. In case of discrepancies contact LA for clarification
- 4. Plant locations are to be adjusted in the fiel as necessary to screen utilities but not to block windows or impede access.
- 5. The LA reserves the right to make substitutions, additions or deletions in the planting scheme as they feel necessary while work is in progress. Such changes are to be accompanied by equitable adjustments in the contract price if/when necessary.
- 6. All trees in formal grouping shall be matching in size and shape.
- 7. Branching heights of trees shall be 6' minimum above finis grade.
- 8. The Landscape Contractor shall secure all vines with to fences wit approved fasteners allowing for two year growth.
- 9. Landscape Contractor shall hire an accredited Soil's Analysis fir to test soil and abide by recommendations within for proper plant growth.
- 10. On grade planting backfil mix shall consist of 50% imported topsoil, 50% native soil, with no rocks larger than 2" diameter.
- 11. All on-grade planting areas are to receive iron and nitrogen stabilized redwood soil conditioner at the rate of 6 cubic yards/ 1000 square feet evenly tilled to a 6" inch depth to finis grade into the soil.
- 12. All street trees to be installed in accordance to the City's standards.
- 13. All planting areas to be top dressed with a 3" layer of fi bark chips with a maximum size of 1" diameter.
- 14. Planting areas shall remain 3' clear of all fir hydrants and fir lanes.
- 15. The Fire Department requires 20' horizontal clearance and 14' vertical clearance for path of travel in fir lanes.
- 16. All plantings shall be watered by a new water conserving irrigation system utilizing bubblers for 15 gallon containers, drip for em mitters for buxwood & Pittosporum plantings (to limit overspray on ramp) and microspray for all other plantings.





1 × 6 FENCE BOARDS BOARD ON BOARD  $-2 \times 6$  KICK BOARD -FINISH GRADE

SIMPSON TIE -PBS44 CONC. FOOTING

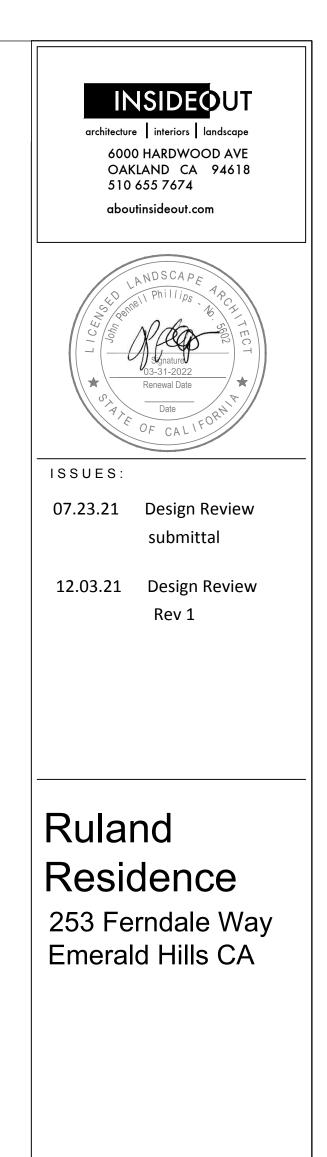




- 12" & CONC, FTG,







Plant List, Plant Notes, Fencing Details	TITLE:	
Plant Notes, Fencing Details		
DATE: 23 JULY 2021	Plant N	Notes,
DATE: 23 JULY 2021		
DATE: 23 JULY 2021		
DATE: 23 JULY 2021		
	SCALE:	
DRAWING NO:		23 JULY 2021
DRAWING NO:	DATE:	
	DATE:	