GENERAL NOTES

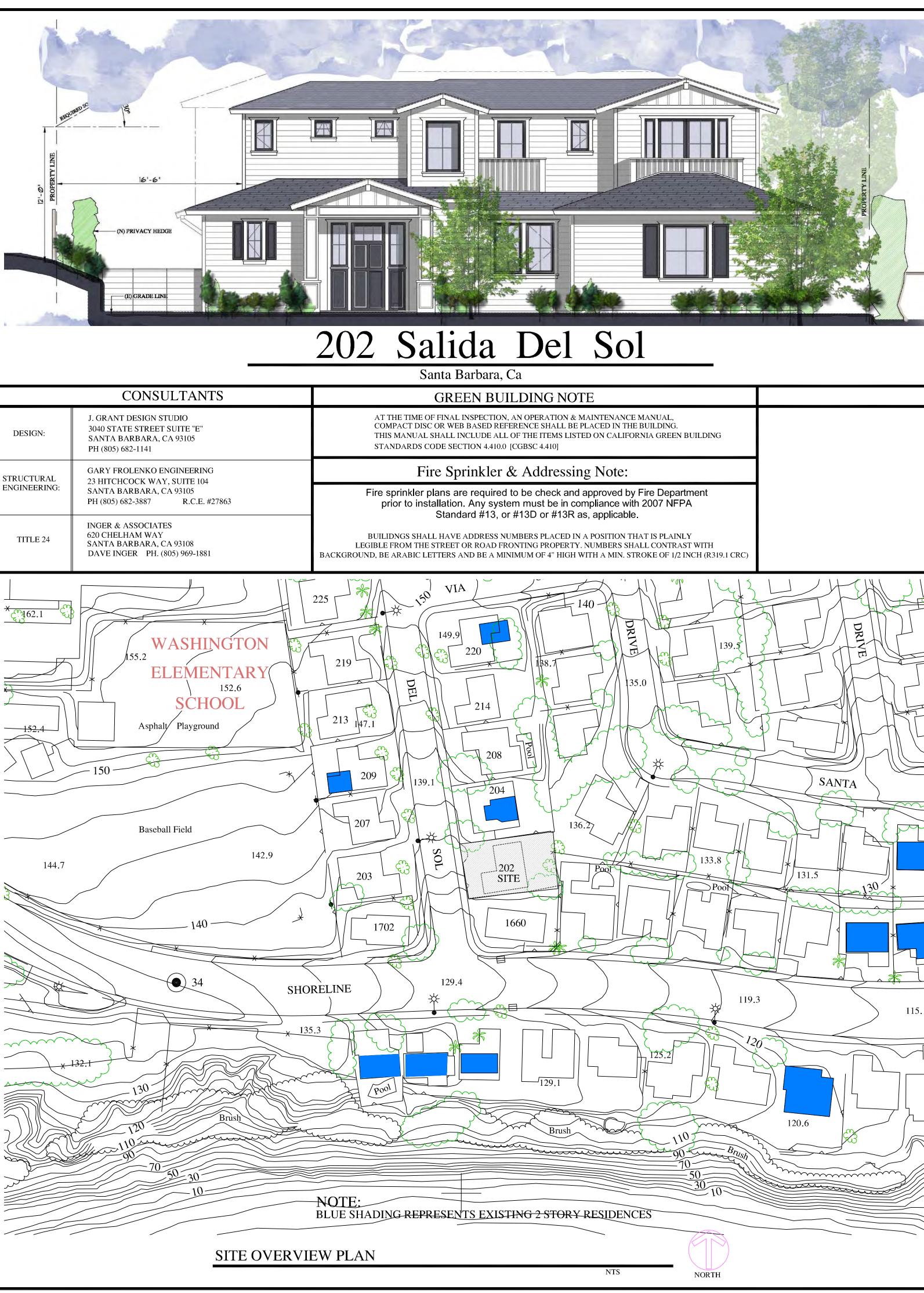
- 1. ALL CONSTRUCTION SHALL COMPLY WITH CALIFORNIA BUILDING CODE, 2022 EDITION; THE CALIFORNIA PLUMBING CODE, 2022 EDITION; THE CALIFORNIA ELECTRICAL CODE, 2022 EDITION; THE CALIFORNIA MECHANICAL CODE, 2022 EDITION; THE CALIFORNIA FIRE CODE, 2022 EDITION; THE CALIFORNIA ENERGY CODE, 2022 EDITION, CALIFORNIA GREEN BUILDING STANDARDS CODE 2022 2022 EDITION AND ALL AMENDMENTS AS ADOPTED IN SANTA BARBARA CITY ORDINANCE 5919
- IT SHALL BE THE SUB-CONTRACTORS RESPONSIBILITY TO NOTIFY THE OWNER AND DESIGNER OF ANY INCONSISTENCIES IN THE CONSTRUCTION DOCUMENTS DISCOVERED WHILE BIDDING AND CLARIFICATION SHALL BE MADE PRIOR TO THE START OF CONSTRUCTION.
- 3. ALL MATERIALS, STAIN AND PAINT COLORS AND TEXTURES SHALL BE SELECTED BY THE DESIGNER PRIOR TO FABRICATION OR INSTALLATION.
- 4. EACH SUB-CONTRACTOR IS TO CLOSELY EXAMINE THE CONTRACT DOCUMENTS TO DETERMINE THE EXTENT OF THE EXISTING ELEMENTS TO REMAIN. WHERE QUESTIONS OR DISCREPANCIES ARISE, CONSULT THE DESIGNER ABOUT THE EXTENT AND/OR INTENT OF THE REQUIRED DIRECTION, BEFORE COMMENCING THE WORK.
- 5. ALL DIMENSIONS ARE TO FACE OF STUD, CONCRETE OR MASONRY UNLESS NOTED OTHERWISE.
- 6. EACH SUB-CONTRACTOR SHALL REMOVE ALL DEBRIS AND RUBBISH CREATED BY HIS TRADE OR HIS EMPLOYEES, FROM HIS PORTION OF THE WORK DESCRIBED HEREIN AND DEPOSIT IN THE ON-SITE CONTAINER.
- WHERE ANY EXISTING WORK IS DAMAGED BY REMOVAL OF ADJACENT WORK OR ANY OTHER CONSTRUCTION OPERATION, IT SHALL BE REPAIRED OR REPLACED, BY THE SUB-CONTRACTOR WHO HAS CAUSED THE DAMAGE, WITH NEW MATERIALS TO MATCH EXISTING AS APPROVED BY THE DESIGNER.
- 8. ALL GLAZING SHALL COMPLY WITH THE STANDARDS OF THE U.S. CONSUMER PRODUCT SAFETY COMMISSION. MANUFACTURER TO SUPPLY CERTIFICATE OF COMPLIANCE TO OWNER.
- 9. SUBSTITUTIONS, REVISIONS OR CHANGES MAY BE ALLOWED ONLY IF SUCH ITEMS ARE SUBMITTED TO THE DESIGNER IN A TIMELY MANNER IN WRITING AND SUBSEQUENTLY APPROVED BY THE DESIGNER IN WRITING. ALL SUBSTITUTIONS MUST BE AT LEAST OF EQUAL QUALITY, DESIGN AND PERFORMANCE. THE DESIGNER SHALL RESERVE THE RIGHT TO REJECT ANY REQUEST FOR A SUBSTITUTION FOR ANY REASON.
- 10. ALL ELECTRICAL, PLUMBING, MECHANICAL AND STRUCTURAL WORK SHALL CONFORM TO THE REQUIREMENTS OF ALL LEGAL CONSTITUTED AUTHORITIES HAVING JURISDICTION AND TO ALL OF THE STANDARDS OF THEIR RESPECTIVE ASSOCIATIONS OR COUNCILS.
- 11. GENERAL LIGHTING FIXTURES IN KITCHENS AND BATHROOMS SHALL BE FLUORESCENT OR APPROVED EQUAL
- 12. LIGHTING FIX IN SHOWER ENCL SHALL BE SUITABLE FOR WET USE PER NEC 410-4.
- 13. WATER CLOSETS SHALL BE "ULTRA LOW FLUSH" WITH 1.28 GAL MAX PER FLUSH
- 14. CONTROL VALVES FOR SHOWERS AND TUB/SHOWERS SHALL BE THERMOSTATIC OR PRESSURE BALANCING VALVE TYPE
- 15. IT WILL BE THE PROPERTY OWNERS/CONTRACTORS RESPONSIBILITY TO HAVE A LICENSED SURVEYOR LAYOUT PROPOSED STRUCTURES WHEN THEY ARE LOCATED ON OR NEAR SETBACK LINES.
- 16. CONSTRUCTION WASTE MANAGEMENT REQUIREMENTS OF CRC R324.1 WILL BE MET RECYCLE AND/OR SALVAGE FOR REUSE A MINIMUM OF 50 PERCENT OF THE NONHAZARDOUS CONSTRUCTION AND DEMOLITION WASTE IN ACCORDANCE WITH CGBC CHAPT.4 DIVISION 4.5
- 17. FINISH MATERIALS INCLUDING ADHESIVES, SEALENTS, CAULKS, PAINTS AND COATINGS, AEROSOL PAINTS AND COATINGS SHALL MEET THE VOLATILE ORGANIC COMPOUND (VOC) EMISSION LIMITS IN SCCORDANCE WITH CGBC CHPT. 4, 4.5 (CAL GREEN)

NEIGHBORING F.A.R. STATISTICS

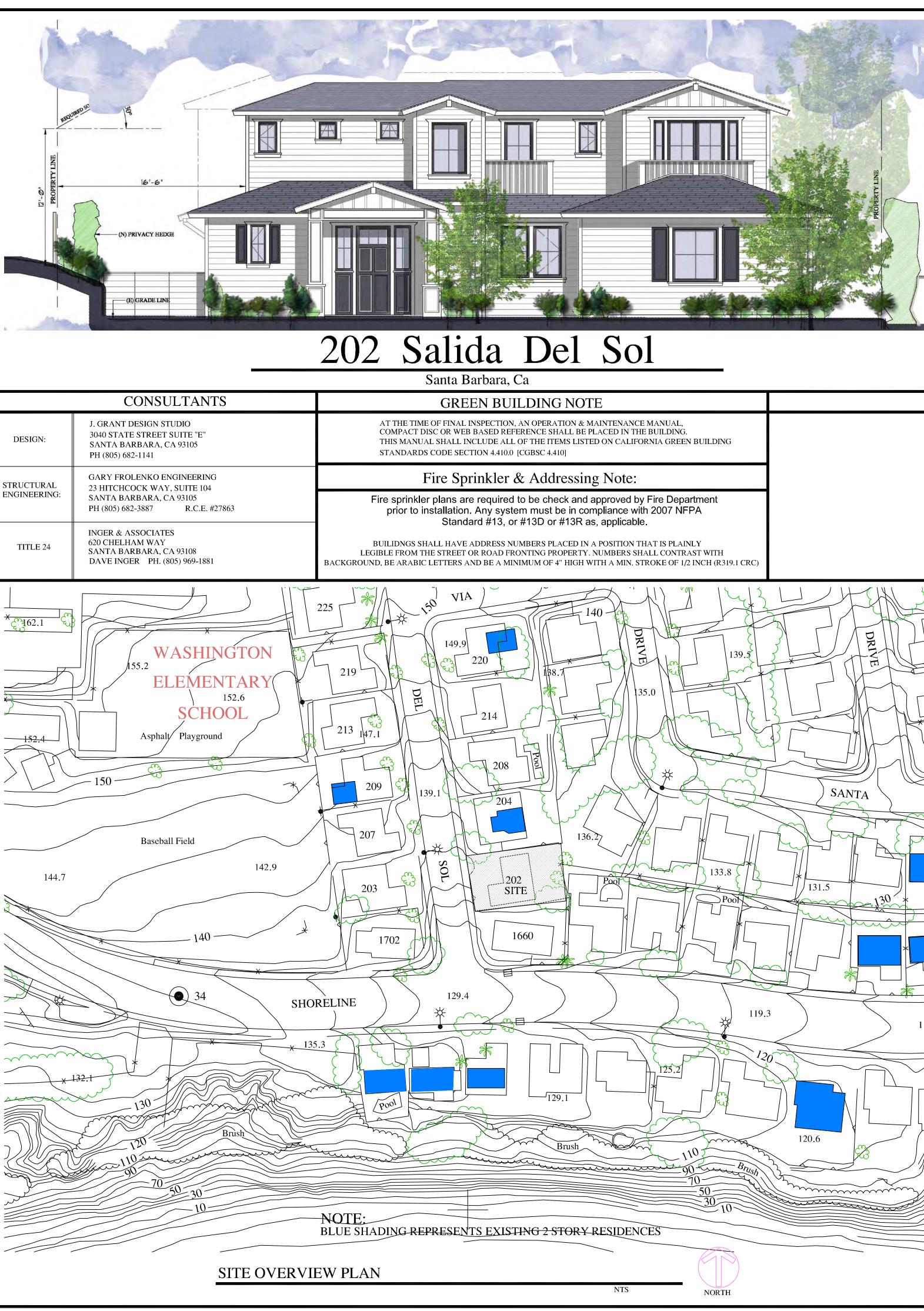
ADDRESS	LIVING S.F. + GARAGE = TOTAL S.F.	LOT S.F.	F.A.R.
1660 SHORLINE DR.	2,175 + 420 = 2,595	8,712	77%
1702 SHORELINE DR.	1,590 + 441 = 2,031	8,276	63%
203 SALIDA DEL SOL	2,063 + 441 = 2,504	7,405	83%
204 SALIDA DEL SOL	3,177 + 420 = 3,597	8,276	111%
207 SALIDA DEL SOL	1,928 + 441 = 2,369	7,840	75%
208 SALIDA DEL SOL	2,119 + 441 = 2,560	7,840	82%
209 SALIDA DEL SOL	2,333 + 420 = 2,753	7,405	91%
213 SALIDA DEL SOL	2,085 + 441 = 2,526	7,840	80%
214 SALIDA DEL SOL	1,643 + 441 = 2,084	8,276	64%
219 SALIDA DEL SOL	1,590 + 441 = 2,031	8,276	63%
220 SALIDA DEL SOL	2,674 + 484 = 3,158	8,712	94%
225 SALIDA DEL SOL	2,107 + 435 = 2,542	7,405	84%

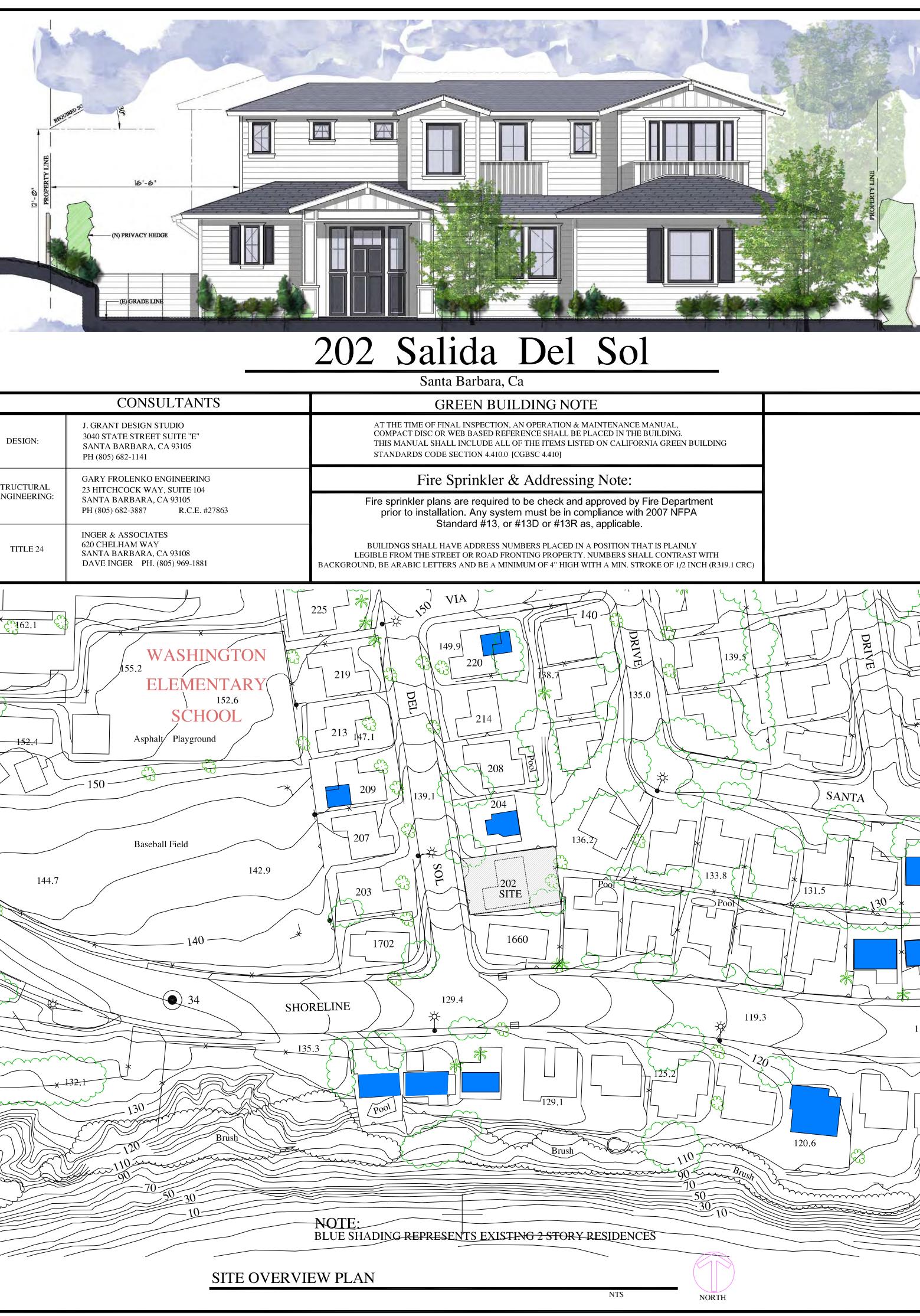
F.A.R. CALCULATOR

ENTER Project Address:	202 Salida Del Sol
Is there a basement or cellar existing or proposed?	No
ENTER Proposed TOTAL Net FAR Floor Area (in sq. ft.):	2,934
ENTER Zone ONLY from drop-down list:	E-3 or RS-7.5
ENTER Net Lot Area (in sq. ft.):	7,968
Is the height of existing or proposed buildings 17 feet or greater?	Yes
Are existing or proposed buildings two stories or greater?	Yes
The FAR Requirements are:	REQUIRED**
ENTER Average Slope of Lot:	7.00%
Does the height of existing or proposed buildings exceed 25 feet?	No
Is the site in the Hillside Design District?	No
Does the project include 500 or more cu. yds. of grading outside the main building footprint?	No
An FAR MOD is not required per SB	MC §28.15 or §30.20.030
FLOOR AREA RATIO (FAR):	0.368
Lot Size Range:	4 ,000 - 9,999 sq .ft.
MAX FAR Calculation (in sq. ft.):	1,200 + (0.25 x lot size in sq.ft.)
100% MAX FAR:	0.401
100% MAX FAR (in sq. ft.):	3,192
85% of MAX FAR (in sq. ft.):	2,713
80% of MAX FAR (in sq. ft.):	2,554
The 2934 square foot proposed total	is 92% of the MAX FAR.*
<u>NOTE:</u> Percentage total is rounded up. <u>NOTE:</u> If your project is located on a site with multiple or overlay zones, nitations are "Required" or "Guideline".	please contact Planning Staff to confirm whether the F/
Acreage Conversion C	alculator
ENTER Acreage to Convert to square footage:	1.00
Net Lot Area (in sq. ft.):	43560



	CONSULTANTS
DESIGN:	J. GRANT DESIGN STUDIO 3040 STATE STREET SUITE "E" SANTA BARBARA, CA 93105 PH (805) 682-1141
STRUCTURAL ENGINEERING:	GARY FROLENKO ENGINEERING 23 HITCHCOCK WAY, SUITE 104 SANTA BARBARA, CA 93105 PH (805) 682-3887 R.C.E. #275
TITLE 24	INGER & ASSOCIATES 620 CHELHAM WAY SANTA BARBARA, CA 93108 DAVE INGER PH. (805) 969-1881
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	/58 R. M. Bk. 45 , Pg. 31	PACIFIC - Pacific Estates	NOTE-RECORD TITLE ALONG SHORE OF PACIFIC OCEAN SHALL BE CONSTRUED TO REACH NEAD HIGH MATER BOARD OF SUDERVISION MINUTES 8/2/30, BK 3,) IO		
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	PROPERTY OWN	ER: SCOTT &	HILARY OUINN	11.41	STUDIO IS		
			TELEPHÒNE: (805) 682-	-1141			/ER
	PARCEL NUMBE				GRANT DESIGN		10
	LAND USE ZONE PARCEL SIZE:		3 (ONE-FAMILY RESIDE ES; APPROX. 7,968 S.F.	NCE/COASTAL OVERLAY)			Ŭ
	AVERAGE SLOP				N OF J.		
	SETBACKS:	REQUIRE	D: FRONT; 20' SIDE	YARD; 6' REAR YARD; 6'	PERMISSION	NOL	
	EXISTING PARKI PROPOSED PARK	-		VIDED: 2 COVERED		DESCRIPTION	
	HIGH FIRE ZONE				WITHOUT WRITTEN	DESC	
4 1	EROSION CONTR	ROL: YES			OUT W	SHEET	
	SWMP REQUIREN				L - WITH	SH	
	EXISTING RES		AREA STATISTICS 1,565 S.F. (NET)	1,640 S.F. (GROSS)	ETC		
K	EXISTING GAI	RAGE	402 S.F. (NET)	428 S.F. (NET)	NICAL,		(+)
	EXISTING TO	ΓAL	1,967 S.F. (NET)	2,068 S.F. (NET)	 MECHANICAL,		
	LOWER FLOO	DR ADDITION	21 S.F. (NET)	26 S.F. (GROSS)	ប <u>ំ</u>		¥
X	UPPER FLOO		946 S.F. (NET)	1,024 S.F. (GROSS)	ELECTRONI		
	PROPOSED L	IVING TOTAL	2,934 S.F. (NET)	3,118 S.F. (GROSS)			S(RA
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	SHT A-1	SITE PLAN			DUCTIC	ADDRESS	
	SHT A-2		WITH PROPOSED OVER	LAY	REPRODUCTION	_ `	
	SHT A-3 SHT A-4	PROPOSED FLOC	OR PLANS F PLAN & BUILDING SEG	CTIONS		PROJECT	
	SHT A-5		ATION RENDERINGS		RESERVED	Ч	REVISIONS
.5.1	SHT A-6		ERIOR ELEVATIONS		RIGHTS I		
	SHT A-7 	PROPOSED EXTE	ERIOR ELEVATIONS		ALL R	3-26-24	ADDRESS PLANNER COMMENTS SFDB PROJECT APPROVAL
1	SHT D-1	ARCHITECTURA				7-18-24	COMPLETE BID SET
	SHT D-2	ARCHITECTURA				8-01-24	ARCH FINAL APPROVAL SET
	SHT E-1 SHT E-2	FIRST FLOOR EL	ECTRICAL PLAN				
	SHT E-2 SHT E-3	TITLE 24 DOCUM			┨╏		
	SHT L-1	EXISTING & PRO	POSED LANDSCAPE PL	AN	11	JOB #	202
	SHT T-1	EXISTING SITE D				CAD FILE	202PLAN16.DWG
	SHT T-2 SHT S-1	TIER 2 SITE DRA				DATE	7-28-24
	SHT S-2	FOUNDATION PL				SHEET	
	SHT S-3	LOWER LEVEL L]		
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California 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE RESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2023)

Y N/A RESPON. PARTY		RESPON. PARTY	
	GREEN BUILDING SECTION 301 GENERAL		4.106.4.2 New multifan When parking is provide requirements of Section whole number. A parking
	301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7.		space shall count as at l applicable minimum par for further details. 4.106.4.2.1Multifamily
	301.1.1 Additions and alterations. [HCD] The mandatory provisions of Chapter 4 shall be applied to additions or alterations of existing residential buildings where the addition or alteration increases the building's conditioned area, volume, or size. The requirements shall apply only to and/or within the specific area of the addition or alteration.		than 20 sleeping units The number of dwelling this section. 1.EV Capable. To
	The mandatory provision of Section 4.106.4.2 may apply to additions or alterations of existing parking facilities or the addition of new parking facilities serving existing multifamily buildings. See Section 4.106.4.3 for application.		of parking facilitie EVSE. Electrical I system, including EVs at all required
	Note: Repairs including, but not limited to, resurfacing, restriping and repairing or maintaining existing lighting fixtures are not considered alterations for the purpose of this section. Note: On and after January 1, 2014, residential buildings undergoing permitted alterations, additions, or		The service pane for future EV cha Exceptions:
	improvements shall replace noncompliant plumbing fixtures with water-conserving plumbing fixtures. Plumbing fixture replacement is required prior to issuance of a certificate of final completion, certificate of occupancy or final permit approval by the local building department. See Civil Code Section 1101.1, et seq., for the definition of a noncompliant plumbing fixture, types of residential buildings affected and other important enactment dates.		1.When EV ch of EV capable 2.When EV cl
	301.2 LOW-RISE AND HIGH-RISE RESIDENTIAL BUILDINGS. [HCD] The provisions of individual sections of CALGreen may apply to either low-rise residential buildings high-rise residential buildings, or both. Individual sections will be designated by banners to indicate where the section applies specifically to low-rise only (LR) or high-rise only (HR). When the section applies to both low-rise and high-rise buildings, no banner will be used.		Notes: a.Construction future EV charge
	SECTION 302 MIXED OCCUPANCY BUILDINGS		b.There is no EV chargers a
	 302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy. Exceptions: [HCD] Accessory structures and accessory occupancies serving residential buildings shall comply with Chapter 4 and Appendix A4, as applicable. [HCD] For purposes of CALGreen, live/work units, complying with Section 419 of the California 		2.EV Ready . Two Level 2 EV charg dwelling unit whe Exception: Areas
	Building Code, shall not be considered mixed occupancies. Live/Work units shall comply with Chapter 4 and Appendix A4, as applicable. DIVISION 4.1 PLANNING AND DESIGN		4.106.4.2.2 Multifamily sleeping units or gues The number of dwelling this section.
	ABBREVIATION DEFINITIONS:HCDDepartment of Housing and Community DevelopmentBSCCalifornia Building Standards CommissionDSA-SSDivision of the State Architect, Structural SafetyOSHPDOffice of Statewide Health Planning and DevelopmentLRLow RiseHRHigh Rise		1.EV Capable . Te of parking facilitie EVSE. Electrical I system, including EVs at all required
	AA Additions and Alterations N New CHAPTER 4		The service pane for future EV char Exception: Wh parking space
	RESIDENTIAL MANDATORY MEASURES SECTION 4.102 DEFINITIONS		reduced by a Notes: a.Constructior
	 4.102.1 DEFINITIONS The following terms are defined in Chapter 2 (and are included here for reference) FRENCH DRAIN. A trench, hole or other depressed area loosely filled with rock, gravel, fragments of brick or similar pervious material used to collect or channel drainage or runoff water.		b.There is no i EV chargers a 2.EV Ready. Twe
	WATTLES. Wattles are used to reduce sediment in runoff. Wattles are often constructed of natural plant materials such as hay, straw or similar material shaped in the form of tubes and placed on a downflow slope. Wattles are also used for perimeter and inlet controls.		Level 2 EV charg dwelling unit whe Exception: Are
	 4.106 SITE DEVELOPMENT 4.106.1 GENERAL. Preservation and use of available natural resources shall be accomplished through evaluation and careful planning to minimize negative effects on the site and adjacent areas. Preservation of slopes, management of storm water drainage and erosion controls shall comply with this section. 		3.EV Chargers. F Where common u area and shall be
	4.106.2 STORM WATER DRAINAGE AND RETENTION DURING CONSTRUCTION. Projects which disturb less than one acre of soil and are not part of a larger common plan of development which in total disturbs one acre or more, shall manage storm water drainage during construction. In order to manage storm water drainage during construction, one or more of the following measures shall be implemented to prevent flooding of adjacent property, prevent erosion and retain soil runoff on the site.		When low power an automatic load capacity to each s shall have sufficie served by the ALI have a capacity o capacity to the re
	 Retention basins of sufficient size shall be utilized to retain storm water on the site. Where storm water is conveyed to a public drainage system, collection point, gutter or similar disposal method, water shall be filtered by use of a barrier system, wattle or other method approved by the enforcing agency. Compliance with a lawfully enacted storm water management ordinance. 		4.106.4.2.2.1 Electr Electric vehicle charg Exception: Electric
	Note: Refer to the State Water Resources Control Board for projects which disturb one acre or more of soil, or are part of a larger common plan of development which in total disturbs one acre or more of soil.		shall not be require requirements. 4.106.4.2.2.1.1 Loca
	 (Website: https://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.html) 4.106.3 GRADING AND PAVING. Construction plans shall indicate how the site grading or drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following: 		EVCS shall comply v 1.The charging the California B
	 Swales Water collection and disposal systems French drains 		2.The charging Chapter 2, to th Exception: Elec
	 Water retention gardens Other water measures which keep surface water away from buildings and aid in groundwater recharge. 		Build ⁱ ng Code, 4.106.4.2.2.1.2 4.106.4.2.2.1.2 Elec
	 Exception: Additions and alterations not altering the drainage path. 4.106.4 Electric vehicle (EV) charging for new construction. New construction shall comply with Sections 4.106.4.1 or 4.106.4.2 to facilitate future installation and use of EV chargers. Electric vehicle supply equipment (EVSE) shall be installed in accordance with the <i>California Electrical Code</i>, Article 625. 		The charging spac 1.The minimum ler 2.The minimum wi
	Exceptions: 1. On a case-by-case basis, where the local enforcing agency has determined EV charging and infrastructure are not feasible based upon one or more of the following conditions:		3.One in every 25 aisle. A 5-foot (152 12 feet (3658 mm)
	 1.1 Where there is no local utility power supply or the local utility is unable to supply adequate power. 1.2 Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 4.106.4, may adversely impact the construction cost of the project. 		a.Surface slope for percent slope) in a 4.106.4.2.2.1.3 Acc
	 2. Accessory Dwelling Units (ADU) and Junior Accessory Dwelling Units (JADU) without additional parking facilities. 4.106.4.1 New one- and two-family dwellings and townhouses with attached private garages. For each 		In addition to the rec comply with the acce spaces and EVCS in 1109A.
	4.106.4.1 New one- and two-ramity owenings and townhouses with attached private garages. For each dwelling unit, install a listed raceway to accommodate a dedicated 208/240-volt branch circuit. The raceway shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall originate at the main service or subpanel and shall terminate into a listed cabinet, box or other enclosure in close proximity to the proposed location of an EV charger. Raceways are required to be continuous at enclosed, inaccessible or concealed areas and spaces. The service panel and/or subpanel shall provide capacity to install a 40-ampere 208/240-volt minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overcurrent protective device.		4.106.4.2.3 EV space 1.Single EV space recircuit. The raceway originate at the main proximity to the loca raceway termination have a 40-ampere ministalled or space(s
	Exemption: A raceway is not required if a minimum 40-ampere 208/240-volt dedicated EV branch circuit is installed in close proximity to the proposed location of an EV charger at the time of original construction in accordance with the <i>California Electrical Code</i> .		installed, or space(s Exception: A racev installed in close p construction in acc
	4.106.4.1.1 Identification. The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE".		2.Multiple EV spaces location of installed of information on ampe electrical load calcula raceways and related

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u duallinga batala and matala and now regidential narking facilities	Y	N/A	RESPON. PARTY	Exception: A raceway is not required if a minimum installed in close proximity to the location or the pr construction in accordance with the California Elec	oposed location of the EV space at the time of c
y dwellings, hotels and motels and new residential parking facilities. parking spaces for new multifamily dwellings, hotels and motels shall meet the 4.106.4.2.1 and 4.106.4.2.2. Calculations for spaces shall be rounded up to the nearest space served by electric vehicle supply equipment or designed as a future EV charging				4.106.4.2.4 Identification. The service panel or subpanel circuit directory shall iden future EV charging purposes as "EV CAPABLE" in accor	
ast one standard automobile parking space only for the purpose of complying with any ng space requirements established by a local jurisdiction. See Vehicle Code Section 22511.2				4.106.4.2.5 Electric Vehicle Ready Space Signage . Electric vehicle ready spaces shall be identified by signate	ge or pavement markings, in compliance with Ca
evelopment projects with less than 20 dwelling units; and hotels and motels with less r guest rooms. hits, sleeping units or guest rooms shall be based on all buildings on a project site subject to				Traffic Operations Policy Directive 13-01 (Zero Emission successor(s).	
				4.106.4.3 Electric vehicle charging for additions and alte multifamily buildings. When new parking facilities are added, or electrical syste	ems or lighting of existing parking facilities are a
(10) percent of the total number of parking spaces on a building site, provided for all types shall be electric vehicle charging spaces (EV spaces) capable of supporting future Level 2 ad calculations shall demonstrate that the electrical panel service capacity and electrical ny on-site distribution transformer(s), have sufficient capacity to simultaneously charge all EV spaces at a minimum of 40 amperes.				altered and the work requires a building permit, ten (10) altered shall be electric vehicle charging spaces (EV spa Notes:	
r subpanel circuit directory shall identify the overcurrent protective device space(s) reserved ng purposes as "EV CAPABLE" in accordance with the California Electrical Code.				1.Construction documents are intended to demonstrate EV charging.2.There is no requirement for EV spaces to be construct	
gers (Level 2 EVSE) are installed in a number equal to or greater than the required number baces.				DIVISION 4.2 ENERGY EFFICIE 4.201 GENERAL	
gers (Level 2 EVSE) are installed in a number less than the required number of EV capable number of EV capable spaces required may be reduced by a number equal to the number of installed.				4.201.1 SCOPE. For the purposes of mandatory energy ef Commission will continue to adopt mandatory standard	ls.
				4.303 INDOOR WATER USE	CY AND CONSERVATION
ocuments are intended to demonstrate the project's capability and capacity for facilitating ng.				4.303.1 WATER CONSERVING PLUMBING FIXTURES AN urinals) and fittings (faucets and showerheads) shall o and 4.303.4.4.	
quirement for EV spaces to be constructed or available until receptacles for EV charging or installed for use.					t is required prior to issuance of a certificate of t
y-five (25) percent of the total number of parking spaces shall be equipped with low power g receptacles. For multifamily parking facilities, no more than one receptacle is required per more than one parking space is provided for use by a single dwelling unit.				completion, certificate of occupancy, or final pe Code Section 1101.1, et seq., for the definition buildings affected and other important enactme	
parking facilities served by parking lifts.				4.303.1.1 Water Closets. The effective flush volume flush. Tank-type water closets shall be certified to the Specification for Tank-type Toilets.	
evelopment projects with 20 or more dwelling units, hotels and motels with 20 or more rooms. Tooms. hits, sleeping units or guest rooms shall be based on all buildings on a project site subject to				Note : The effective flush volume of dual flush to ftwo reduced flushes and one full flush.	toilets is defined as the composite, average flus
(10) percent of the total number of parking spaces on a building site, provided for all types shall be electric vehicle charging spaces (EV spaces) capable of supporting future Level 2				4.303.1.2 Urinals. The effective flush volume of wal The effective flush volume of all other urinals shall no	
and calculations shall demonstrate that the electrical panel service capacity and electrical ny on-site distribution transformer(s), have sufficient capacity to simultaneously charge all EV spaces at a minimum of 40 amperes.				4.303.1.3 Showerheads.	
r subpanel circuit directory shall identify the overcurrent protective device space(s) reserved ng purposes as "EV CAPABLE" in accordance with the California Electrical Code.				4.303.1.3.1 Single Showerhead. Showerhea gallons per minute at 80 psi. Showerheads sha WaterSense Specification for Showerheads.	
The Purposes as "Level 2 EVSE) are installed in a number greater than five (5) percent of equired by Section 4.106.4.2.2, Item 3, the number of EV capable spaces required may be mber equal to the number of EV chargers installed over the five (5) percent required.				showerhead, the combined flow rate of all the s	ne shower . When a shower is served by more showerheads and/or other shower outlets contro minute at 80 psi, or the shower shall be designe time.
ocuments shall show locations of future EV spaces.				Note: A hand-held shower shall be cons	sidered a showerhead.
quirement for EV spaces to be constructed or available until receptacles for EV charging or installed for use.					he maximum flow rate of residential lavatory fat
y-five (25) percent of the total number of parking spaces shall be equipped with low power g receptacles. For multifamily parking facilities, no more than one receptacle is required per				not exceed 1.2 gallons per minute at 60 psi. The not be less than 0.8 gallons per minute at 20 ps 4.303.1.4.2 Lavatory Faucets in Common ar	
nore than one parking space is provided for use by a single dwelling unit. s of parking facilities served by parking lifts.					eas (outside of dwellings or sleeping units) in res
e (5) percent of the total number of parking spaces shall be equipped with Level 2 EVSE. e parking is provided, at least one EV charger shall be located in the common use parking vailable for use by all residents or guests.				more than 0.2 gallons per cycle.	ets when installed in residential buildings shall r
evel 2 EV charging receptacles or Level 2 EVSE are installed beyond the minimum required, nanagement system (ALMS) may be used to reduce the maximum required electrical				per minute at 60 psi. Kitchen faucets may tem to exceed 2.2 gallons per minute at 60 psi, and	flow rate of kitchen faucets shall not exceed 1.8 porarily increase the flow above the maximum ra I must default to a maximum flow rate of 1.8 gall
ace served by the ALMS. The electrical system and any on-site distribution transformers capacity to deliver at least 3.3 kW simultaneously to each EV charging station (EVCS) S. The branch circuit shall have a minimum capacity of 40 amperes, and installed EVSE shall not less than 30 amperes. ALMS shall not be used to reduce the minimum required electrical				minute at 60 psi. Note : Where complying faucets are unavailabl reduction.	e, aerators or other means may be used to ach
ired EV capable spaces. vehicle charging stations (EVCS). g stations required by Section 4.106.4.2.2, Item 3, shall comply with Section 4.106.4.2.2.1.				Efficiency Regulations), Sections 1605.1 (h)(4)	the <i>California Code of Regulations</i> , Title 20 (Ap Table H-2, Section 1605.3 (h)(4)(A), and Section
to comply with this section. See California Building Code, Chapter 11B, for applicable				Code of Regulations, Title 20 (Appliance Efficie	and code section have been reprinted from the ency Regulations),Section 1605.1 (h)(4) and Sec
on. h at least one of the following options:				1605.3 (h)(4)(A).	
ace shall be located adjacent to an accessible parking space meeting the requirements of ding Code, Chapter 11A, to allow use of the EV charger from the accessible parking space.				TABLE H-2 STANDARDS FOR COMMERCIA	
ace shall be located on an accessible route, as defined in the California Building Code, building.				VALUES MANUFACTURED ON (
vehicle charging stations designed and constructed in compliance with the California apter 11B, are not required to comply with Section 4.106.4.2.2.1.1 and Section em 3.				PRODUCT CLASS [spray force in ounce force (ozf)]	MAXIMUM FLOW RATE (gpm)
c vehicle charging stations (EVCS) dimensions. shall be designed to comply with the following:				Product Class 1 (\leq 5.0 ozf) Product Class 2 (> 5.0 ozf and \leq 8.0 ozf)	1.00
h of each EV space shall be 18 feet (5486 mm).				Product Class 3 (> 8.0 ozf)	1.28 prerinse spray values manufactured on or after v
of each EV space shall be 9 feet (2743 mm). arging spaces, but not less than one, shall also have an 8-foot (2438 mm) wide minimum				1, 2006, shall have a minimum spray force of n 4.303.2 Submeters for multifamily buildings and dwellin	ot less than 4.0 ounces-force (ozf)[113 grams-fo
nm) wide minimum aisle shall be permitted provided the minimum width of the EV space is				buildings. Submeters shall be installed to measure water usage California Plumbing Code.	-
is EV space and the aisle shall not exceed 1 unit vertical in 48 units horizontal (2.083 direction.				4.303.3 Standards for plumbing fixtures and fittings. Plu accordance with the <i>California Plumbing Code</i> , and shall me	
sible EV spaces. rements in Sections 4.106.4.2.2.1.1 and 4.106.4.2.2.1.2, all EVSE, when installed, shall sibility provisions for EV chargers in the California Building Code, Chapter 11B. EV ready nultifamily developments shall comply with California Building Code, Chapter 11A, Section				1701.1 of the <i>California Plumbing Code</i> . NOTE: THIS TABLE COMPILES THE DATA IN SECTION 4	
requirements.				TABLE - MAXIMUM FIXTURE WATER	
uired. Install a listed raceway capable of accommodating a 208/240-volt dedicated branch all not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall ervice or subpanel and shall terminate into a listed cabinet, box or enclosure in close				FIXTURE TYPE	FLOW RATE
n or the proposed location of the EV space. Construction documents shall identify the bint, receptacle or charger location, as applicable. The service panel and/ or subpanel shall imum dedicated branch circuit, including branch circuit overcurrent protective device device device				SHOWER HEADS (RESIDENTIAL)	1.8 GMP @ 80 PSI MAX. 1.2 GPM @ 60 PSI MIN. 0.8 GPM @
eserved to permit installation of a branch circuit overcurrent protective device. It is not required if a minimum 40-ampere 208/240-volt dedicated EV branch circuit is cimity to the location or the proposed location of the EV space, at the time of original				LAVATORY FAUCETS (RESIDENTIAL)	0.5 GPM @ 60 PSI MIN. 0.8 GPM @ PSI
anity to the location of the proposed location of the EV space, at the time of original dance with the California Electrical Code.				USE AREAS KITCHEN FAUCETS	1.8 GPM @ 60 PSI
future EV spaces, receptacles or EV chargers. Construction documents shall also provide ge of installed or future receptacles or EVSE, raceway method(s), wiring schematics and				METERING FAUCETS WATER CLOSET	0.2 GAL/CYCLE 1.28 GAL/FLUSH
ons. Plan design shall be based upon a 40-ampere minimum branch circuit. Required components that are planned to be installed underground, enclosed, inaccessible or in paces shall be installed at the time of original construction.				URINALS	0.125 GAL/FLUSH

Concealed areas and spaces shall be installed at the time of original construction. DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.

Y	=	YES
N/A	=	NOT APPLICABLE
RESPON. PARTY	=	RESPONSIBLE PARTY (ie: ARCHIT
		OWNER, CONTRACTOR, INSPECT

	RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINE OWNER, CONTRACTOR, INSPECTOR ETC.)
Y N/A RESP PAR	
	 4.304 OUTDOOR WATER USE 4.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Residential developments shall comply will a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water
	Efficient Landscape Ordinance (MWELO), whichever is more stringent.
	NOTES:
	1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the <i>California Code Regulations,</i> Title 23, Chapter 2.7, Division 2. MWELO and supporting documents, including water budget calculator, a
	available at: https://www.water.ca.gov/
	DIVISION 4.4 MATERIAL CONSERVATION AND RESOURCE
	4.406 ENHANCED DURABILITY AND REDUCED MAINTENANCE
	4.406.1 RODENT PROOFING. Annular spaces around pipes, electric cables, conduits or other openings in sole/bottom plates at exterior walls shall be protected against the passage of rodents by closing such
	openings with cement mortar, concrete masonry or a similar method acceptable to the enforcing agency.
	4.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING 4.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65
	percent of the non-hazardous construction and demolition waste in accordance with either Section 4.408.2, 4.408.3 or 4.408.4, or meet a more stringent local construction and demolition waste
	management ordinance.
	Exceptions: 1. Excavated soil and land-clearing debris.
	 Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist or are not located reasonably
	close to the jobsite.3. The enforcing agency may make exceptions to the requirements of this section when isolated in basis and the basis because the section of the diverging facility.
	jobsites are located in areas beyond the haul boundaries of the diversion facility. 4.408.2 CONSTRUCTION WASTE MANAGEMENT PLAN . Submit a construction waste management plan
	in conformance with Items 1 through 5. The construction waste management plan shall be updated as necessary and shall be available during construction for examination by the enforcing agency.
	1. Identify the construction and demolition waste materials to be diverted from disposal by recycling,
	reuse on the project or salvage for future use or sale.2. Specify if construction and demolition waste materials will be sorted on-site (source separated) or bulk mixed (single stream).
	 Identify diversion facilities where the construction and demolition waste material collected will be taken.
	 Identify construction methods employed to reduce the amount of construction and demolition waste generated.
	Specify that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.
	4.408.3 WASTE MANAGEMENT COMPANY. Utilize a waste management company, approved by the enforcing agency, which can provide verifiable documentation that the percentage of construction and
	demolition waste material diverted from the landfill complies with Section 4.408.1.
	Note: The owner or contractor may make the determination if the construction and demolition waste materials will be diverted by a waste management company.
	4.408.4 WASTE STREAM REDUCTION ALTERNATIVE [LR]. Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed 3.4
	lbs./sq.ft. of the building area shall meet the minimum 65% construction waste reduction requirement in Section 4.408.1
	4.408.4.1 WASTE STREAM REDUCTION ALTERNATIVE. Projects that generate a total combined
	weight of construction and demolition waste disposed of in landfills, which do not exceed 2 pounds per square foot of the building area, shall meet the minimum 65% construction waste reduction requirement in Section 4.408.1
	4.408.5 DOCUMENTATION . Documentation shall be provided to the enforcing agency which demonstrates
	compliance with Section 4.408.2, items 1 through 5, Section 4.408.3 or Section 4.408.4
	Notes: 1. Sample forms found in "A Guide to the California Green Building Standards Code
	(Residential)" located at www.hcd.ca.gov/CALGreen.html may be used to assist in documenting compliance with this section.
	 Mixed construction and demolition debris (C & D) processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).
	4.410 BUILDING MAINTENANCE AND OPERATION 4.410.1 OPERATION AND MAINTENANCE MANUAL. At the time of final inspection, a manual, compact
	disc, web-based reference or other media acceptable to the enforcing agency which includes all of the following shall be placed in the building:
	1. Directions to the owner or occupant that the manual shall remain with the building throughout the
	 life cycle of the structure. 2. Operation and maintenance instructions for the following: a. Equipment and appliances, including water-saving devices and systems, HVAC systems,
	 Equipment and appliances, including water-saving devices and systems, HVAC systems, photovoltaic systems, electric vehicle chargers, water-heating systems and other major appliances and equipment.
	b. Roof and yard drainage, including gutters and downspouts.c. Space conditioning systems, including condensers and air filters.
	 d. Landscape irrigation systems. e. Water reuse systems. 3. Information from local utility, water and waste receivery providers on methods to further reduce.
	 Information from local utility, water and waste recovery providers on methods to further reduce resource consumption, including recycle programs and locations. Public transportation and/or carpool options available in the area.
	 Educational material on the positive impacts of an interior relative humidity between 30-60 percent and what methods an occupant may use to maintain the relative humidity level in that range.
	 Information about water-conserving landscape and irrigation design and controllers which conserve water.
	 Instructions for maintaining gutters and downspouts and the importance of diverting water at least 5 feet away from the foundation. Information on required routine maintenance measures, including, but not limited to, caulking,
	painting, grading around the building, etc. 9. Information about state solar energy and incentive programs available.
	 A copy of all special inspections verifications required by the enforcing agency or this code. Information from the Department of Forestry and Fire Protection on maintenance of defensible
	space around residential structures. 12. Information and/or drawings identifying the location of grab bar reinforcements.
	4.410.2 RECYCLING BY OCCUPANTS. Where 5 or more multifamily dwelling units are constructed on a building site, provide readily accessible area(s) that serves all buildings on the site and are identified for the
	depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waster, and metals, or meet a lawfully enacted local recycling
	ordinance, if more restrictive.
	Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code Section 42649.82 (a)(2)(A) et seq. are note required to comply with the organic waste portion of this section.
	DIVISION 4.5 ENVIRONMENTAL QUALITY
	SECTION 4.501 GENERAL
	4.501.1 Scope The provisions of this chapter shall outline means of reducing the quality of air contaminants that are odorous, irritating and/or harmful to the comfort and well being of a building's installers, occupants and neighbors.
	SECTION 4.502 DEFINITIONS
	5.102.1 DEFINITIONS The following terms are defined in Chapter 2 (and are included here for reference)
	AGRIFIBER PRODUCTS. Agrifiber products include wheatboard, strawboard, panel substrates and door cores, not including furniture, fixtures and equipment (FE&E) not considered base building elements
	cores, not including furniture, fixtures and equipment (FF&E) not considered base building elements. COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and
	medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, prefabricated
	wood I-joists or finger-jointed lumber, all as specified in California Code of regulations (CCR), title 17, Section 93120.1.
	DIRECT-VENT APPLIANCE. A fuel-burning appliance with a sealed combustion system that draws all air for combustion from the outside atmosphere and discharges all flue gases to the outside atmosphere.
	combustion from the outside atmosphere and discharges all flue gases to the outside atmosphere.

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N/A						
	RESPON. PARTY				Y N/A RESPON. PARTY	
						TABLE
		MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change compound to the "Base Reactive Organic Gas (ROG) Mixture" per weigh	in weight of ozone formed nt of compound added, exp	by adding a pressed to		(Less Wa
		hundredths of a gram (g O ³ /g ROC). Note: MIR values for individual compounds and hydrocarbon solvents are hydrocarbon solvents and hydrocarbon solvents are hydrocarbon s	e specified in CCR, Title 17	7, Sections 94700		SEALAN
		and 94701.	orcontage of the weight of	the even dry wood		ARCHIT
		MOISTURE CONTENT. The weight of the water in wood expressed in p PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for	č	•		MARINE
		article. The PWMIR is the total product reactivity expressed to hundredth product (excluding container and packaging).				ROADW
		Note: PWMIR is calculated according to equations found in CCR, Title 1	7, Section 94521 (a).			SINGLE
		REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the ozone formation in the troposphere.	e potential, once emitted, to	o contribute to		OTHER
		VOC. A volatile organic compound (VOC) broadly defined as a chemica	compound based on carbo	on chains or rings		SEALAN
		with vapor pressures greater than 0.1 millimeters of mercury at room ter hydrogen and may contain oxygen, nitrogen and other elements. See C				NON
		4.503 FIREPLACES 4.503.1 GENERAL . Any installed gas fireplace shall be a direct-vent se	aled-combustion type Any	installed		POR
		woodstove or pellet stove shall comply with U.S. EPA New Source Performance applicable, and shall have a permanent label indicating they are certified	ormance Standards (NSPS I to meet the emission limit) emission limits as		MODIFIE
		pellet stoves and fireplaces shall also comply with applicable local ordina	ances.			MARINE
		4.504 POLLUTANT CONTROL 4.504.1 COVERING OF DUCT OPENINGS & PROTECTION OF MECH CONSTRUCTION. At the time of rough installation, during storage on the				
		startup of the heating, cooling and ventilating equipment, all duct and ot openings shall be covered with tape, plastic, sheet metal or other method	ner related air distribution c	omponent		
		reduce the amount of water, dust or debris which may enter the system.				
		4.504.2 FINISH MATERIAL POLLUTANT CONTROL. Finish materials				TABI
		4.504.2.1 Adhesives, Sealants and Caulks. Adhesives, sealant requirements of the following standards unless more stringent loc				ARC
		management district rules apply:	sealants coolent nime	and coulke		GRAM
		 Adhesives, adhesive bonding primers, adhesive primers shall comply with local or regional air pollution control or applicable or SCAQMD Rule 1168 VOC limits, as show 	r air quality management d	istrict rules where		СОАТ
		Such products also shall comply with the Rule 1168 pro compounds (chloroform, ethylene dichloride, methylene	hibition on the use of certa	in toxic		FLAT
		tricloroethylene), except for aerosol products, as specif				NON- NONF
		 Aerosol adhesives, and smaller unit sizes of adhesives units of product, less packaging, which do not weigh me 	pre than 1 pound and do no	ot consist of more		SPEC
		than 16 fluid ounces) shall comply with statewide VOC prohibitions on use of certain toxic compounds, of <i>Calif</i>	standards and other require	ements, including		ALUM
_		commencing with section 94507.				BASE
		4.504.2.2 Paints and Coatings. Architectural paints and coating the ARB Architectural Suggested Control Measure, as shown in T apply. The VOC content limit for coatings that do not meet the de	able 4.504.3, unless more	stringent local limits		BITUN
		listed in Table 4.504.3 shall be determined by classifying the coat coating, based on its gloss, as defined in subsections 4.21, 4.36,	ing as a Flat, Nonflat or No	nflat-High Gloss		BONE
		Board, Suggested Control Measure, and the corresponding Flat, I Table 4.504.3 shall apply.				CON
		4.504.2.3 Aerosol Paints and Coatings. Aerosol paints and coa	tings shall meet the Produc	ct-weighted MIR		CON
		Limits for ROC in Section 94522(a)(2) and other requirements, incompounds and ozone depleting substances, in Sections 94522(e)	luding prohibitions on use	of certain toxic		DRIV
		<i>Regulations</i> , Title 17, commencing with Section 94520; and in are Quality Management District additionally comply with the percent	as under the jurisdiction of	the Bay Area Air		
		Quality Management District additionally comply with the percent 8, Rule 49.	as under the jurisdiction of VOC by weight of product I	the Bay Area Air imits of Regulation		FAUX FIRE F
		Quality Management District additionally comply with the percent	as under the jurisdiction of VOC by weight of product I n shall be provided at the r	the Bay Area Air imits of Regulation		FAUX FIRE F FLOO
		Quality Management District additionally comply with the percent 8, Rule 49.4.504.2.4 Verification. Verification of compliance with this section	as under the jurisdiction of VOC by weight of product I n shall be provided at the r	the Bay Area Air imits of Regulation		FAUX FIRE F
		 Quality Management District additionally comply with the percent 8, Rule 49. 4.504.2.4 Verification. Verification of compliance with this section enforcing agency. Documentation may include, but is not limited 1. Manufacturer's product specification. 	as under the jurisdiction of VOC by weight of product I n shall be provided at the r	the Bay Area Air imits of Regulation		FAUX FIRE I FLOO FORM
		 Quality Management District additionally comply with the percent 8, Rule 49. 4.504.2.4 Verification. Verification of compliance with this section enforcing agency. Documentation may include, but is not limited 1. Manufacturer's product specification. 	as under the jurisdiction of VOC by weight of product I n shall be provided at the r to, the following:	the Bay Area Air imits of Regulation		FAUX FIRE I FLOO FORM GRAP HIGH INDUS
		 Quality Management District additionally comply with the percent 8, Rule 49. 4.504.2.4 Verification. Verification of compliance with this section enforcing agency. Documentation may include, but is not limited 1. Manufacturer's product specification. 2. Field verification of on-site product containers. 	as under the jurisdiction of VOC by weight of product I n shall be provided at the r to, the following:	the Bay Area Air imits of Regulation		FAUX FIRE I FLOO FORM GRAP HIGH INDUS LOW S
		Quality Management District additionally comply with the percent 8, Rule 49. 4.504.2.4 Verification. Verification of compliance with this section enforcing agency. Documentation may include, but is not limited 1. Manufacturer's product specification. 2. Field verification of on-site product containers. TABLE 4.504.1 - ADHESIVE VOC LIMIT (Less Water and Less Exempt Compounds in Grams percentations)	as under the jurisdiction of VOC by weight of product I n shall be provided at the r to, the following: 1,2 er Liter) VOC LIMIT	the Bay Area Air imits of Regulation		FAUX FIRE I FLOO FORM GRAP HIGH
		Quality Management District additionally comply with the percent 8, Rule 49. 4.504.2.4 Verification. Verification of compliance with this section enforcing agency. Documentation may include, but is not limited 1. Manufacturer's product specification. 2. Field verification of on-site product containers. TABLE 4.504.1 - ADHESIVE VOC LIMIT (Less Water and Less Exempt Compounds in Grams p ARCHITECTURAL APPLICATIONS INDOOR CARPET ADHESIVES	as under the jurisdiction of VOC by weight of product I n shall be provided at the r to, the following: 1,2 er Liter) VOC LIMIT 50	the Bay Area Air imits of Regulation		FAUX FIRE I FLOO FORM GRAP HIGH INDUS LOW S
		Quality Management District additionally comply with the percent 8, Rule 49. 4.504.2.4 Verification. Verification of compliance with this section enforcing agency. Documentation may include, but is not limited 1. Manufacturer's product specification. 2. Field verification of on-site product containers. TABLE 4.504.1 - ADHESIVE VOC LIMIT (Less Water and Less Exempt Compounds in Grams percentations)	as under the jurisdiction of VOC by weight of product I n shall be provided at the r to, the following: 1,2 er Liter) VOC LIMIT	the Bay Area Air imits of Regulation		FAUX FIRE I FLOO FORM GRAP HIGH INDUS LOW 3 MAGN MAST META MULT
		Quality Management District additionally comply with the percent 8, Rule 49. 4.504.2.4 Verification. Verification of compliance with this section enforcing agency. Documentation may include, but is not limited 1. Manufacturer's product specification. 2. Field verification of on-site product containers. TABLE 4.504.1 - ADHESIVE VOC LIMIT (Less Water and Less Exempt Compounds in Grams p ARCHITECTURAL APPLICATIONS INDOOR CARPET ADHESIVES CARPET PAD ADHESIVES	as under the jurisdiction of VOC by weight of product I n shall be provided at the r to, the following: 1,2 er Liter) VOC LIMIT 50 50	the Bay Area Air imits of Regulation		FAUX FIRE I FLOO FORM GRAP HIGH INDUS LOW S MAGN MAST META MULT PRET
		Quality Management District additionally comply with the percent 8, Rule 49. 4.504.2.4 Verification. Verification of compliance with this section enforcing agency. Documentation may include, but is not limited 1. Manufacturer's product specification. 2. Field verification of on-site product containers. TABLE 4.504.1 - ADHESIVE VOC LIMIT (Less Water and Less Exempt Compounds in Grams p ARCHITECTURAL APPLICATIONS INDOOR CARPET ADHESIVES OUTDOOR CARPET ADHESIVES WOOD FLOORING ADHESIVES RUBBER FLOOR ADHESIVES	as under the jurisdiction of VOC by weight of product I n shall be provided at the r to, the following: 1,2 er Liter) VOC LIMIT 50 50 150 150 60	the Bay Area Air imits of Regulation		FAUX FIRE FLOO FORM GRAF HIGH INDUS LOW MAGN MAST META MULT PRET PRIMI
		Quality Management District additionally comply with the percent 8, Rule 49. 4.504.2.4 Verification. Verification of compliance with this section enforcing agency. Documentation may include, but is not limited 1. Manufacturer's product specification. 2. Field verification of on-site product containers. TABLE 4.504.1 - ADHESIVE VOC LIMIT (Less Water and Less Exempt Compounds in Grams p ARCHITECTURAL APPLICATIONS INDOOR CARPET ADHESIVES OUTDOOR CARPET ADHESIVES WOOD FLOORING ADHESIVES RUBBER FLOOR ADHESIVES SUBFLOOR ADHESIVES	as under the jurisdiction of VOC by weight of product I n shall be provided at the r to, the following: 1,2 er Liter) VOC LIMIT 50 50 150 100 60 50	the Bay Area Air imits of Regulation		FAUX FIRE FLOO FORM GRAF HIGH INDUS LOW MAGN MAST META MULT PRET PRIM REAC
		Quality Management District additionally comply with the percent 8, Rule 49. 4.504.2.4 Verification. Verification of compliance with this section enforcing agency. Documentation may include, but is not limited 1. Manufacturer's product specification. 2. Field verification of on-site product containers. TABLE 4.504.1 - ADHESIVE VOC LIMIT (Less Water and Less Exempt Compounds in Grams p ARCHITECTURAL APPLICATIONS INDOOR CARPET ADHESIVES OUTDOOR CARPET ADHESIVES WOOD FLOORING ADHESIVES RUBBER FLOOR ADHESIVES	as under the jurisdiction of VOC by weight of product I n shall be provided at the r to, the following: 1,2 er Liter) VOC LIMIT 50 50 150 150 60	the Bay Area Air imits of Regulation		FAUX FIRE FLOO FORM GRAF HIGH INDUS LOW MAGN MAST META MULT PRET PRIM REAC RECY ROOF
		Quality Management District additionally comply with the percent 8, Rule 49. 4.504.2.4 Verification. Verification of compliance with this sectio enforcing agency. Documentation may include, but is not limited 1. Manufacturer's product specification. 2. Field verification of on-site product containers. TABLE 4.504.1 - ADHESIVE VOC LIMIT (Less Water and Less Exempt Compounds in Grams p ARCHITECTURAL APPLICATIONS INDOOR CARPET ADHESIVES OUTDOOR CARPET ADHESIVES WOOD FLOORING ADHESIVES RUBBER FLOOR ADHESIVES SUBFLOOR ADHESIVES CERAMIC TILE ADHESIVES	as under the jurisdiction of VOC by weight of product I n shall be provided at the r to, the following: I.2 er Liter) VOC LIMIT 50 50 50 150 60 50 65	the Bay Area Air imits of Regulation		FAUX FIRE FLOC FORM GRAF HIGH INDUS LOW MAGN MAST META MULT PRET PRIM REAC RECY ROOF
		Quality Management District additionally comply with the percent 8, Rule 49. 4.504.2.4 Verification. Verification of compliance with this sectio enforcing agency. Documentation may include, but is not limited 1. Manufacturer's product specification. 2. Field verification of on-site product containers. TABLE 4.504.1 - ADHESIVE VOC LIMIT (Less Water and Less Exempt Compounds in Grams p ARCHITECTURAL APPLICATIONS INDOOR CARPET ADHESIVES OUTDOOR CARPET ADHESIVES OUTDOOR CARPET ADHESIVES RUBBER FLOOR ADHESIVES SUBFLOOR ADHESIVES CERAMIC TILE ADHESIVES VCT & ASPHALT TILE ADHESIVES DRYWALL & PANEL ADHESIVES COVE BASE ADHESIVES	as under the jurisdiction of VOC by weight of product I n shall be provided at the r to, the following: 1,2 er Liter) VOC LIMIT 50 50 50 60 60 50 65 50 50 50 50 50 50 50	the Bay Area Air imits of Regulation		FAUX FIRE FLOC FORM GRAF HIGH INDUS LOW MAGN MAST META MULT PRET PRIM REAC RECY ROOF RUST SHEL
		Quality Management District additionally comply with the percent 8, Rule 49. 4.504.2.4 Verification. Verification of compliance with this section enforcing agency. Documentation may include, but is not limited 1. Manufacturer's product specification. 2. Field verification of on-site product containers. TABLE 4.504.1 - ADHESIVE VOC LIMIT (Less Water and Less Exempt Compounds in Grams p ARCHITECTURAL APPLICATIONS INDOOR CARPET ADHESIVES OUTDOOR CARPET ADHESIVES OUTDOOR CARPET ADHESIVES RUBBER FLOOR ADHESIVES RUBBER FLOOR ADHESIVES SUBFLOOR ADHESIVES VCT & ASPHALT TILE ADHESIVES VCT & ASPHALT TILE ADHESIVES DRYWALL & PANEL ADHESIVES MULTIPURPOSE CONSTRUCTION ADHESIVE	as under the jurisdiction of VOC by weight of product I n shall be provided at the r to, the following: 1,2 er Liter) VOC LIMIT 50 50 50 65 50 65 50 50 50 50 50 50 50 50 70	the Bay Area Air imits of Regulation		FAUX FIRE FLOC FORM GRAF HIGH INDU LOW MAGI MAST META MULT PRET PRIM REAC RECY ROOF RUST SHEL CLEA
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2022 CALIFORNIA GREEN BUILDING STANDARDS CODE RESIDENTIAL MANDATORY MEASURES, SHEET 2 (January 2023)

E 4.504.2 - SEALANT VOC LIMI	1.504.2 - SEALANT VOC LIMIT					
ater and Less Exempt Compounds in Gran	nd Less Exempt Compounds in Grams per Liter)					
NTS	VOC LIMIT					
ECTURAL	250					
DECK	760					
MBRANE ROOF	300					
ΙΑΥ	250					
-PLY ROOF MEMBRANE	450					
	420					
NT PRIMERS						
ECTURAL						
-POROUS	250					
OUS	775					
ED BITUMINOUS	500					
DECK	760					
	750					

TABLE 4.504.3 - VOC CONTENT LIMIT ARCHITECTURAL COATINGS23	IS FOR
GRAMS OF VOC PER LITER OF COATING, LESS V	WATER & LESS EXEMP
	VOC LIMIT
	50
NON-FLAT COATINGS	100
NONFLAT-HIGH GLOSS COATINGS	150
SPECIALTY COATINGS	
	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
	350
CONCRETE/MASONRY SEALERS	100
	50
DRY FOG COATINGS	150
	350
TIRE RESISTIVE COATINGS	350
LOOR COATINGS	100
ORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH TEMPERATURE COATINGS	420
NDUSTRIAL MAINTENANCE COATINGS	250
OW SOLIDS COATINGS1	120
AGNESITE CEMENT COATINGS	450
ASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
IULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, & UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS	
CLEAR	730
DPAQUE	550
SPECIALTY PRIMERS, SEALERS & JNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
WIMMING POOL COATINGS	340
RAFFIC MARKING COATINGS	100
UB & TILE REFINISH COATINGS	420
VATERPROOFING MEMBRANES	250
VOOD COATINGS	275
NOOD PRESERVATIVES	350
	340
. GRAMS OF VOC PER LITER OF COATING, INC	

. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.

. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

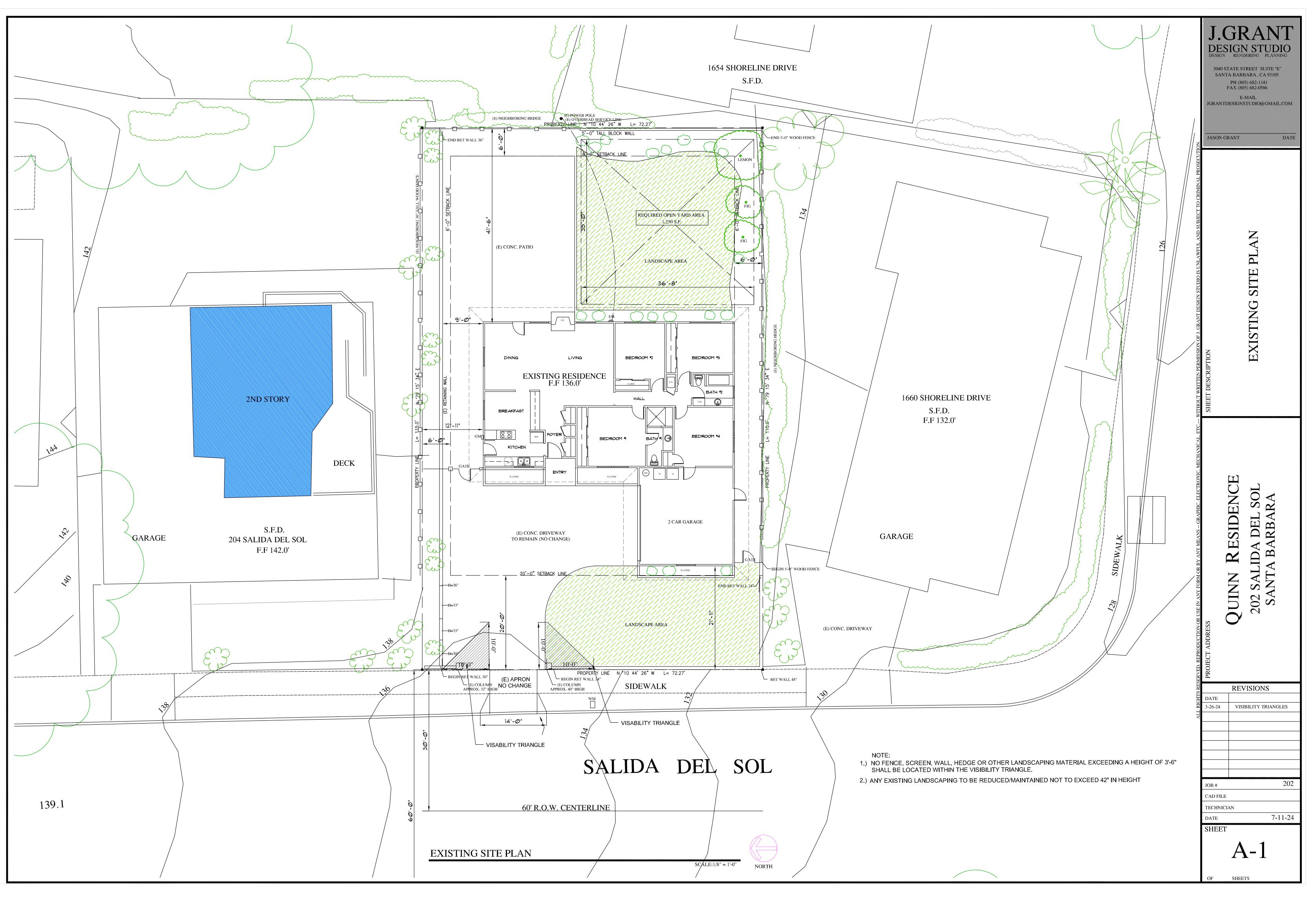
	L (January 2023)		OWNER, CONTRACTOR, INSPECTOR ETC.)
Y N/A RESPON. PARTY		RESPON. PARTY	
	TABLE 4.504.5 - FORMALDEHYDE LIMITS		CHAPTER 7
	MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION		INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS
	PRODUCT CURRENT LIMIT		702 QUALIFICATIONS
	HARDWOOD PLYWOOD VENEER CORE 0.05		702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or
	HARDWOOD PLYWOOD COMPOSITE CORE 0.05		certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC system Examples of acceptable HVAC training and certification programs include but are not limited to the following:
	PARTICLE BOARD 0.09 MEDIUM DENSITY FIBERBOARD 0.11		1. State certified apprenticeship programs.
	THIN MEDIUM DENSITY FIBERBOARD20.131. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED		 Public utility training programs. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations. Programs sponsored by manufacturing organizations.
	BY THE CALIF. AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIF.		 Other programs acceptable to the enforcing agency. 702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or
	CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12. 2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16" (8 MM).		other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may considered by the enforcing agency when evaluating the qualifications of a special inspector:
	DIVISION 4.5 ENVIRONMENTAL QUALITY (continued) 4.504.3 CARPET SYSTEMS. All carpet installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01350)		 Certification by a national or regional green building program or standard publisher. Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors. Successful completion of a third party apprentice training program in the appropriate trade. Other programs acceptable to the enforcing agency.
	See California Department of Public Health's website for certification programs and testing labs.		 Notes: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate
	https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx.		homes in California according to the Home Energy Rating System (HERS).
	4.504.3.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01350)		[BSC] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance w this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from
	See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx.		recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency. Note: Special inspectors shall be independent entities with no financial interest in the materials or the
	4.504.3.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 4.504.1.		Note: Special inspectors shall be independent entities with no financial interest in the materials of the project they are inspecting for compliance with this code.
	4.504.4 RESILIENT FLOORING SYSTEMS. Where resilient flooring is installed, at least 80% of floor area receiving		703 VERIFICATIONS
	resilient flooring shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01350)		703 VERIFICATIONS 703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is no limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific
	See California Department of Public Health's website for certification programs and testing labs. hhtps://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx.		documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.
	4.504.5 COMPOSITE WOOD PRODUCTS. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure for Composite Wood (17 CCR 93120 et seq.), by or before the dates specified in those sections, as shown in Table 4.504.5		
	4.504.5.1 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:		
	 Product certifications and specifications. Chain of custody certifications. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.). Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269, European 636 3S standards, and Canadian CSA 0121, CSA 0151, CSA 0153 and CSA 0325 standards. Other methods acceptable to the enforcing agency. 		
	4.505 INTERIOR MOISTURE CONTROL 4.505.1 General. Buildings shall meet or exceed the provisions of the <i>California Building Standards Code</i> .		
	4.505.2 CONCRETE SLAB FOUNDATIONS. Concrete slab foundations required to have a vapor retarder by California Building Code, Chapter 19, or concrete slab-on-ground floors required to have a vapor retarder by the California Residential Code, Chapter 5, shall also comply with this section.		
	4.505.2.1 Capillary break. A capillary break shall be installed in compliance with at least one of the following:		
	 A 4-inch (101.6 mm) thick base of 1/2 inch (12.7mm) or larger clean aggregate shall be provided with a vapor barrier in direct contact with concrete and a concrete mix design, which will address bleeding, shrinkage, and curling, shall be used. For additional information, see American Concrete Institute, ACI 302.2R-06. Other equivalent methods approved by the enforcing agency. A slab design specified by a licensed design professional. 		
	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 percent moisture content. Moisture content shall be verified in compliance with the following:		
	 Moisture content shall be determined with either a probe-type or contact-type moisture meter. Equivalent moisture verification methods may be approved by the enforcing agency and shall satisfy requirements found in Section 101.8 of this code. 		
	 Moisture readings shall be taken at a point 2 feet (610 mm) to 4 feet (1219 mm) from the grade stamped end of each piece verified. At least three random moisture readings shall be performed on wall and floor framing with documentation acceptable to the enforcing agency provided at the time of approval to enclose the wall and floor framing. 		
	Insulation products which are visibly wet or have a high moisture content shall be replaced or allowed to dry prior to enclosure in wall or floor cavities. Wet-applied insulation products shall follow the manufacturers' drying recommendations prior to enclosure.		
	4.506 INDOOR AIR QUALITY AND EXHAUST 4.506.1 Bathroom exhaust fans. Each bathroom shall be mechanically ventilated and shall comply with the following:		
	 Fans shall be ENERGY STAR compliant and be ducted to terminate outside the building. Unless functioning as a component of a whole house ventilation system, fans must be controlled by a humidity control. 		
	 a. Humidity controls shall be capable of adjustment between a relative humidity range less than or equal to 50% to a maximum of 80%. A humidity control may utilize manual or automatic means of adjustment. b. A humidity control may be a separate component to the exhaust fan and is not required to be integral (i.e., built-in) 		
	 Notes: 1. For the purposes of this section, a bathroom is a room which contains a bathtub, shower or tub/shower combination. 2. Lighting integral to bathroom exhaust fans shall comply with the <i>California Energy Code</i>. 		
	4.507 ENVIRONMENTAL COMFORT 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: 1. The heat loss and heat gain is established according to ANSI/ACCA 2 Manual J - 2011 (Residential		
	 Load Calculation), ASHRAE handbooks or other equivalent design software or methods. Duct systems are sized according to ANSI/ACCA 1 Manual D - 2014 (Residential Duct Systems), ASHRAE handbooks or other equivalent design software or methods. Select heating and cooling equipment according to ANSI/ACCA 3 Manual S - 2014 (Residential Equipment Selection), or other equivalent design software or methods. 		

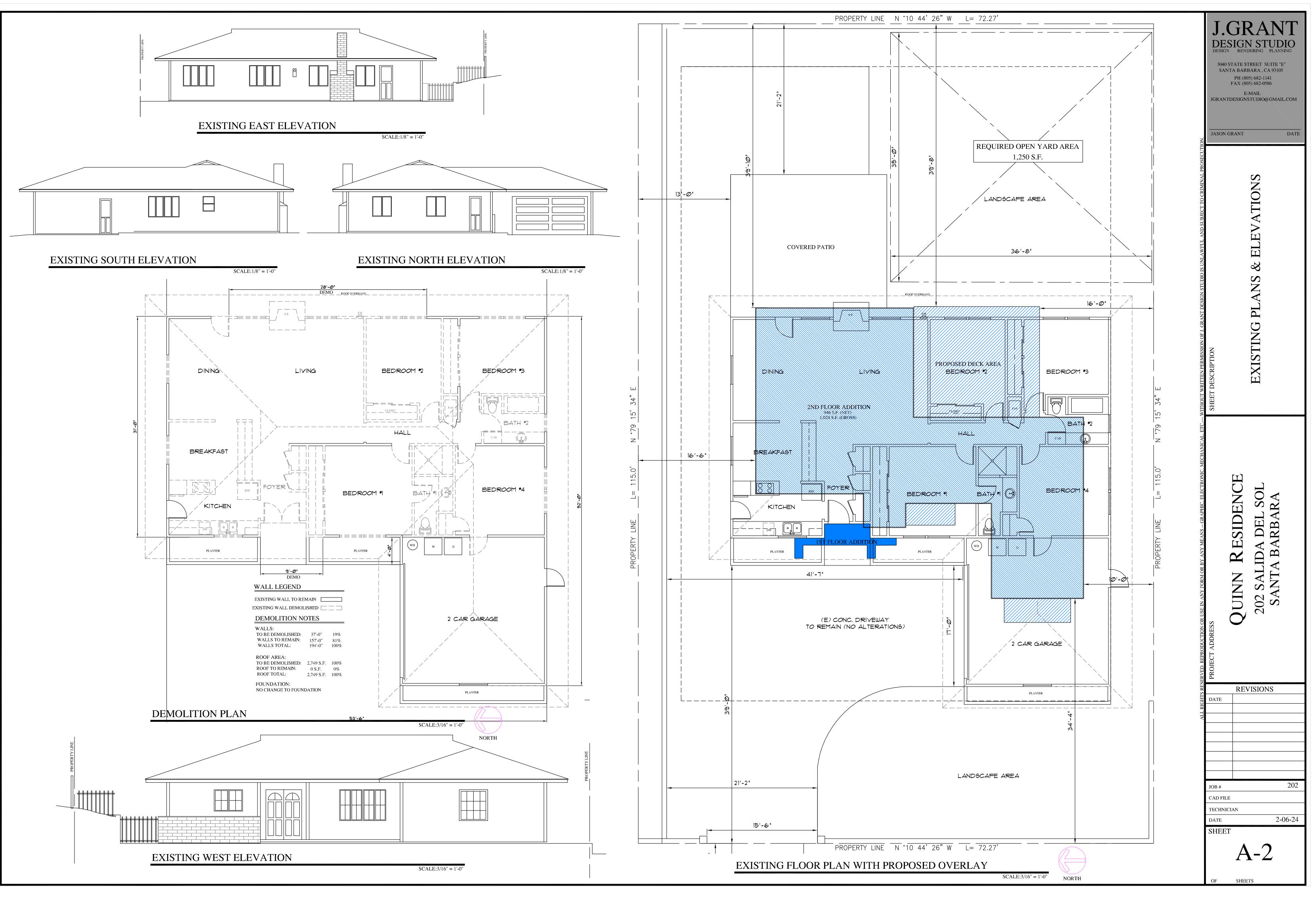
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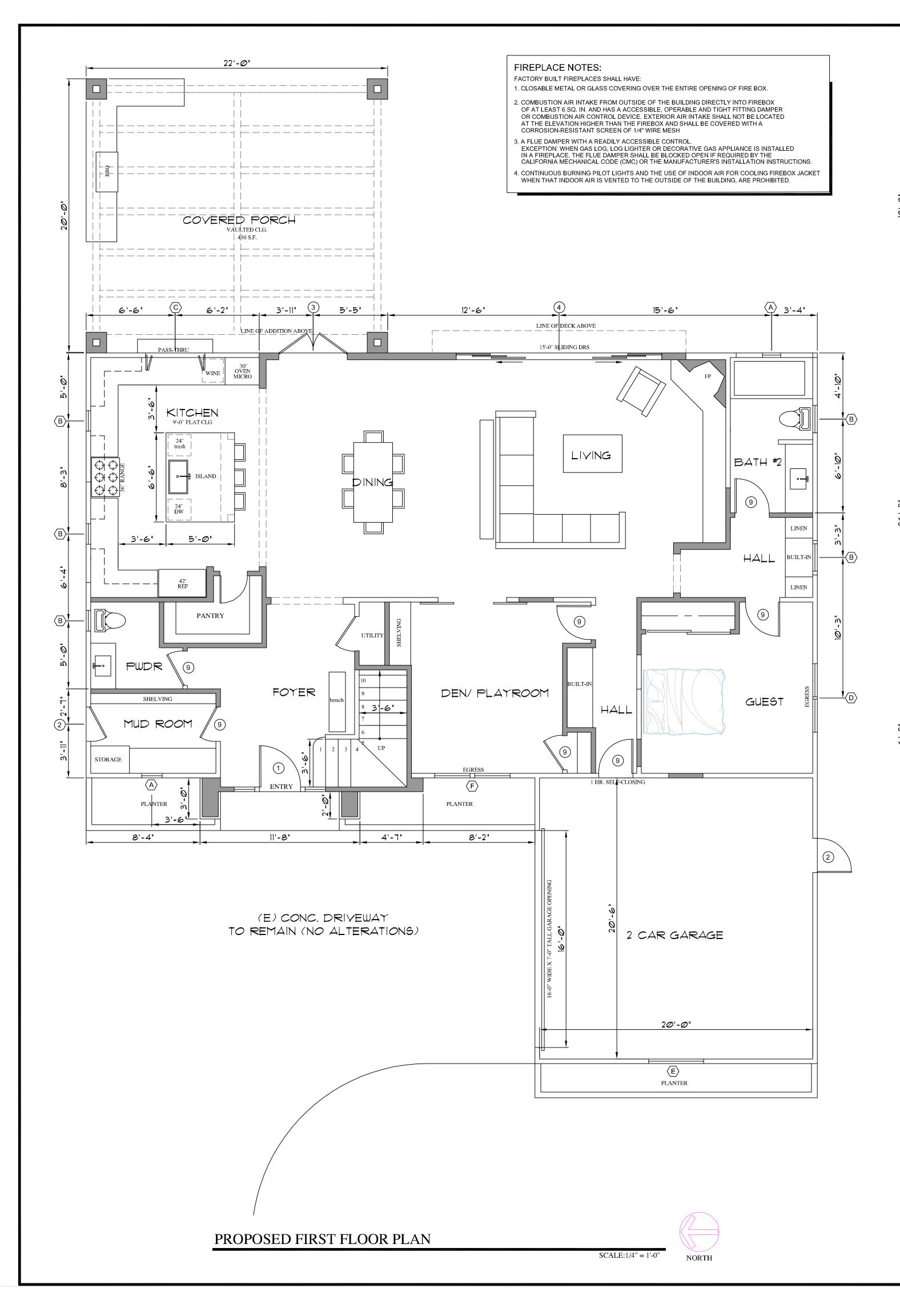
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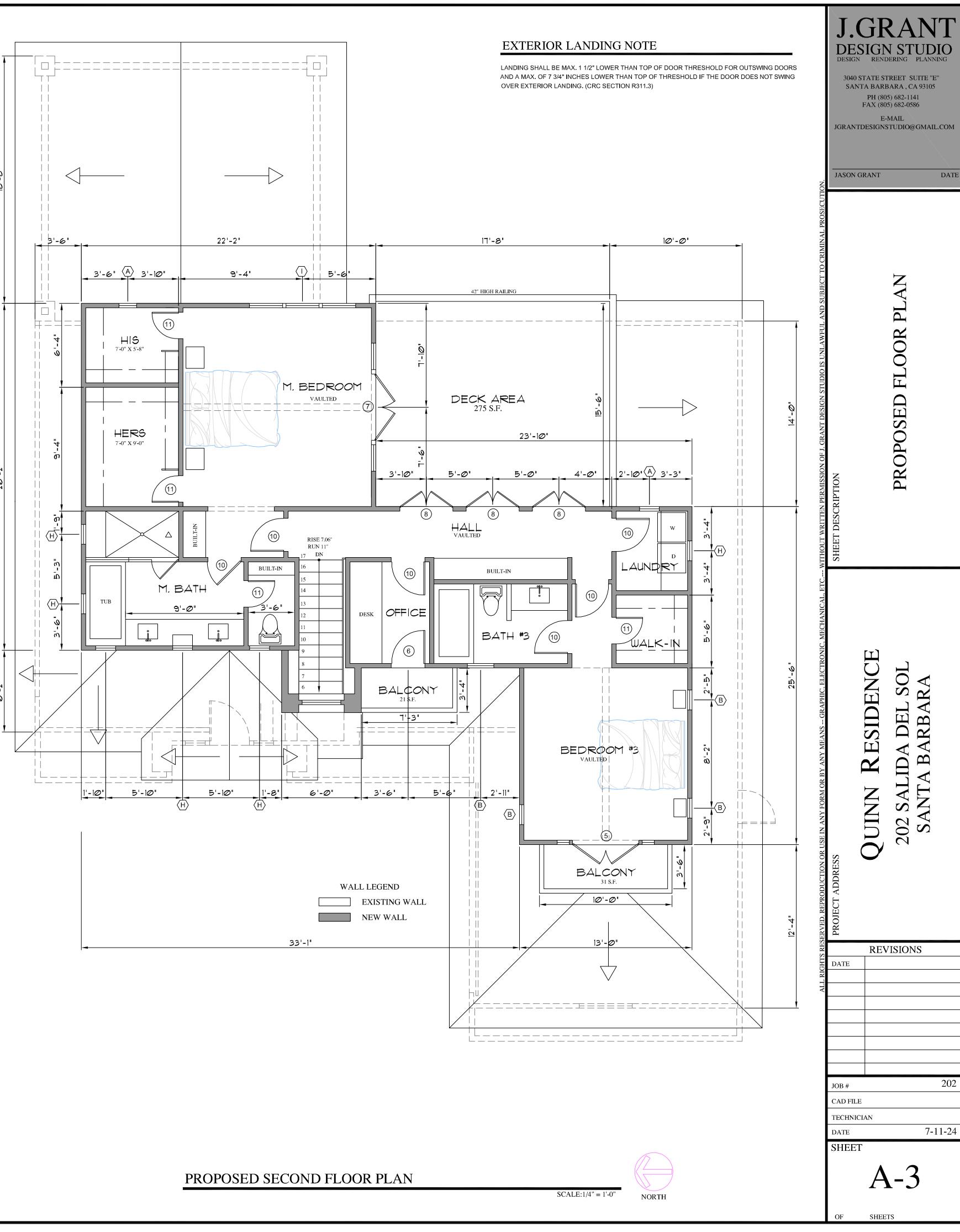
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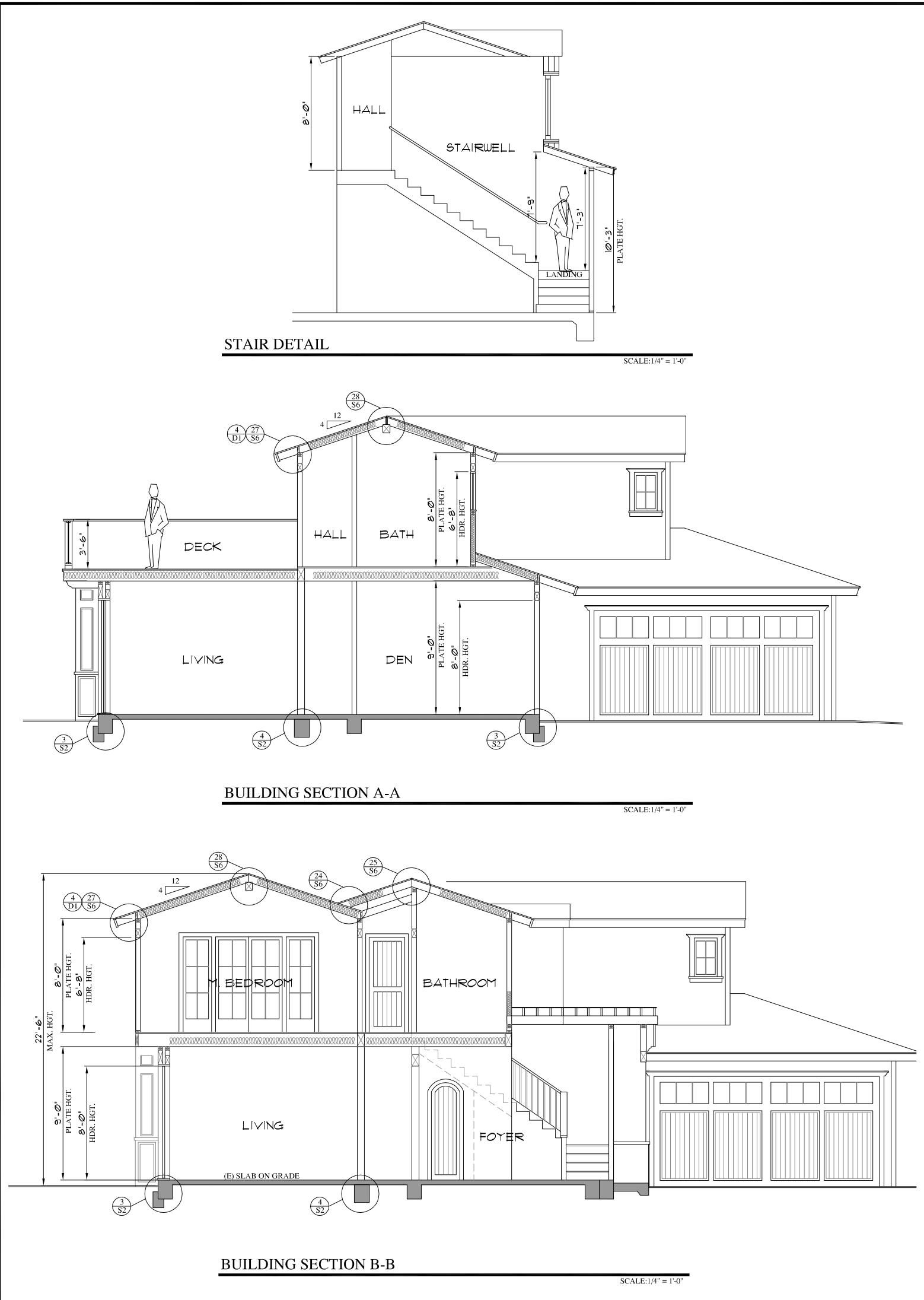
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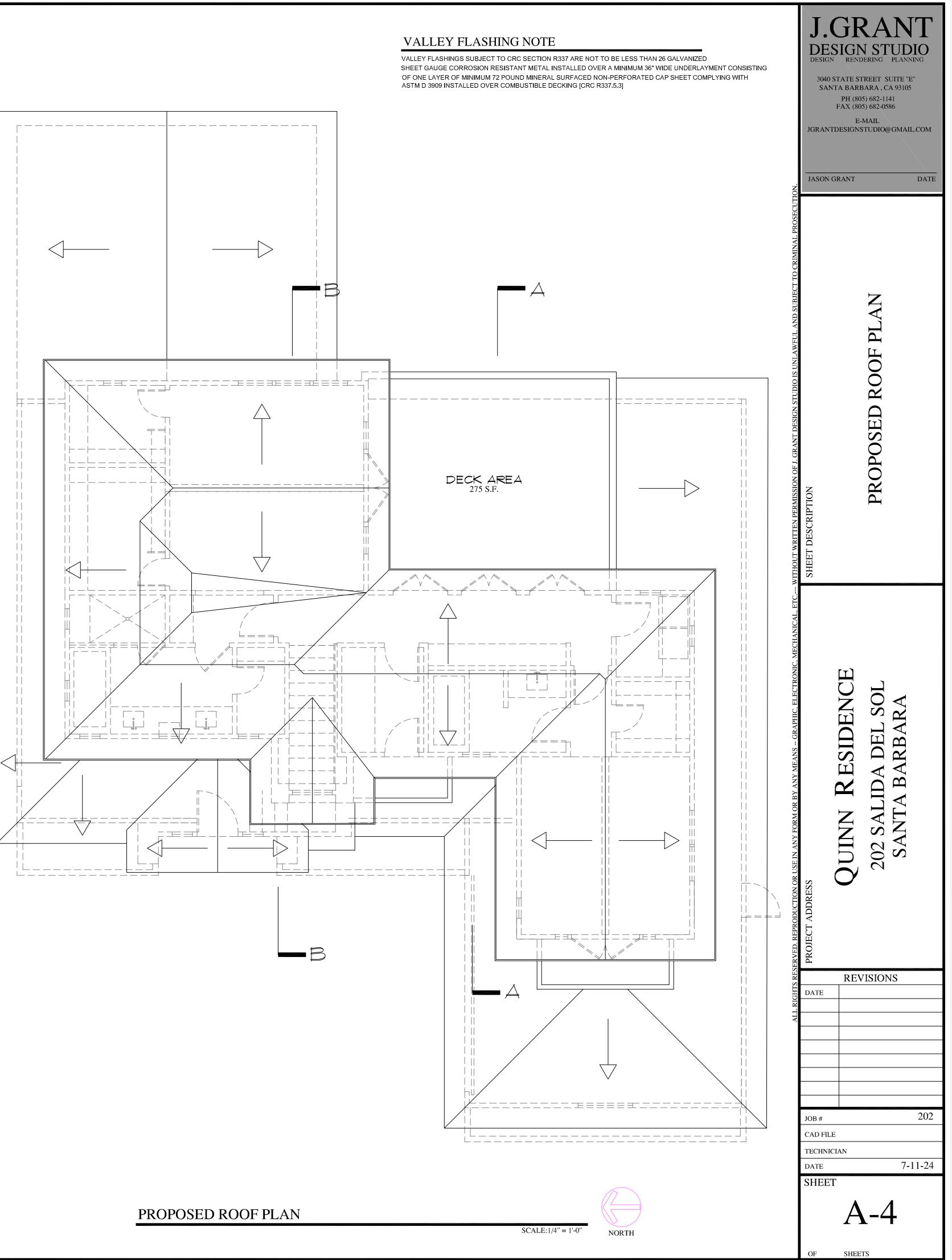


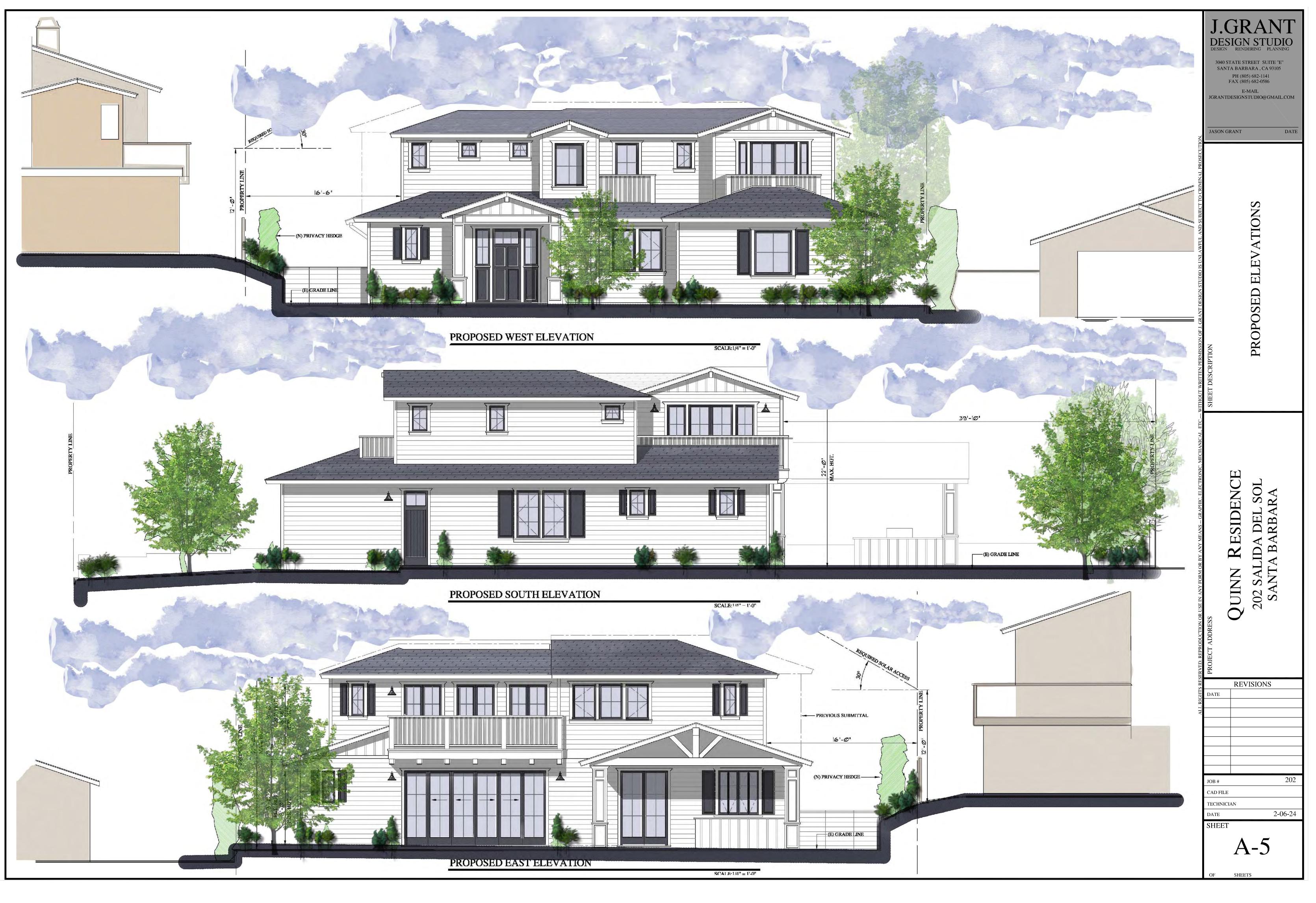










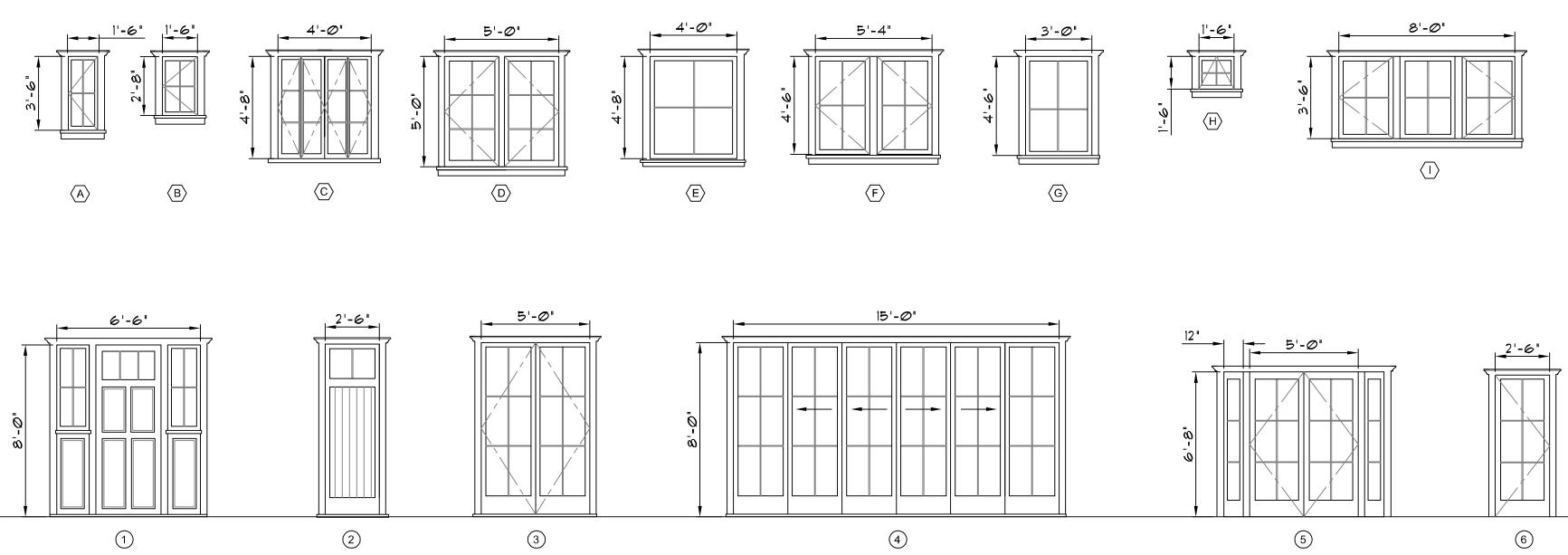


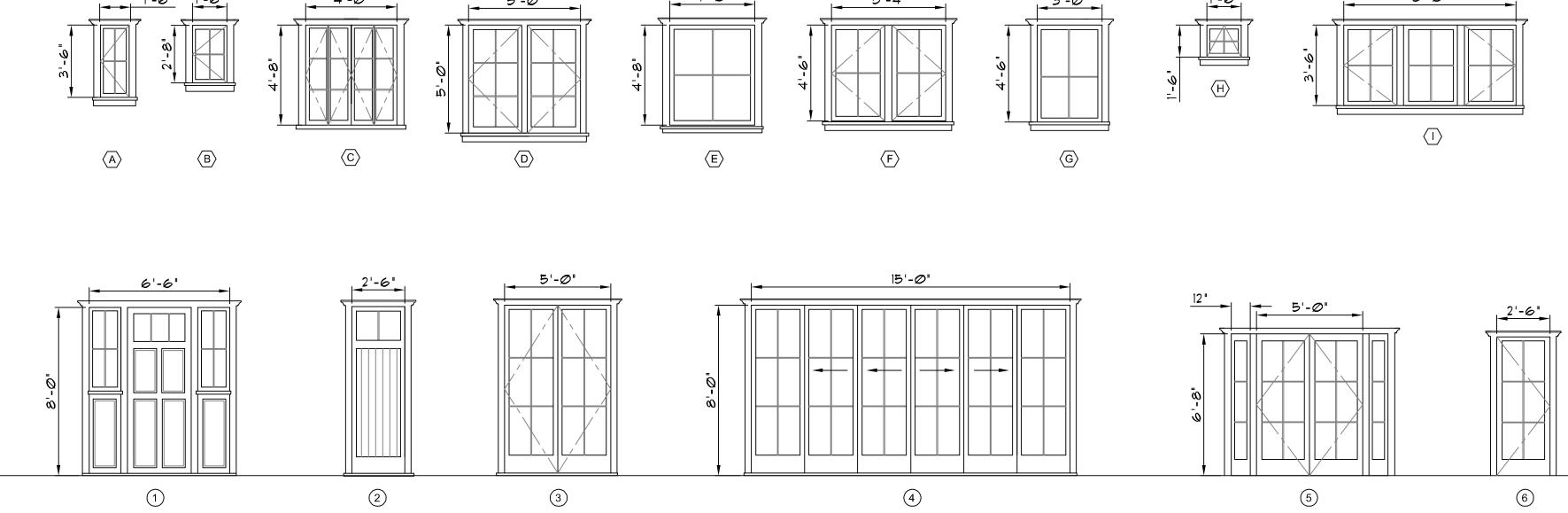
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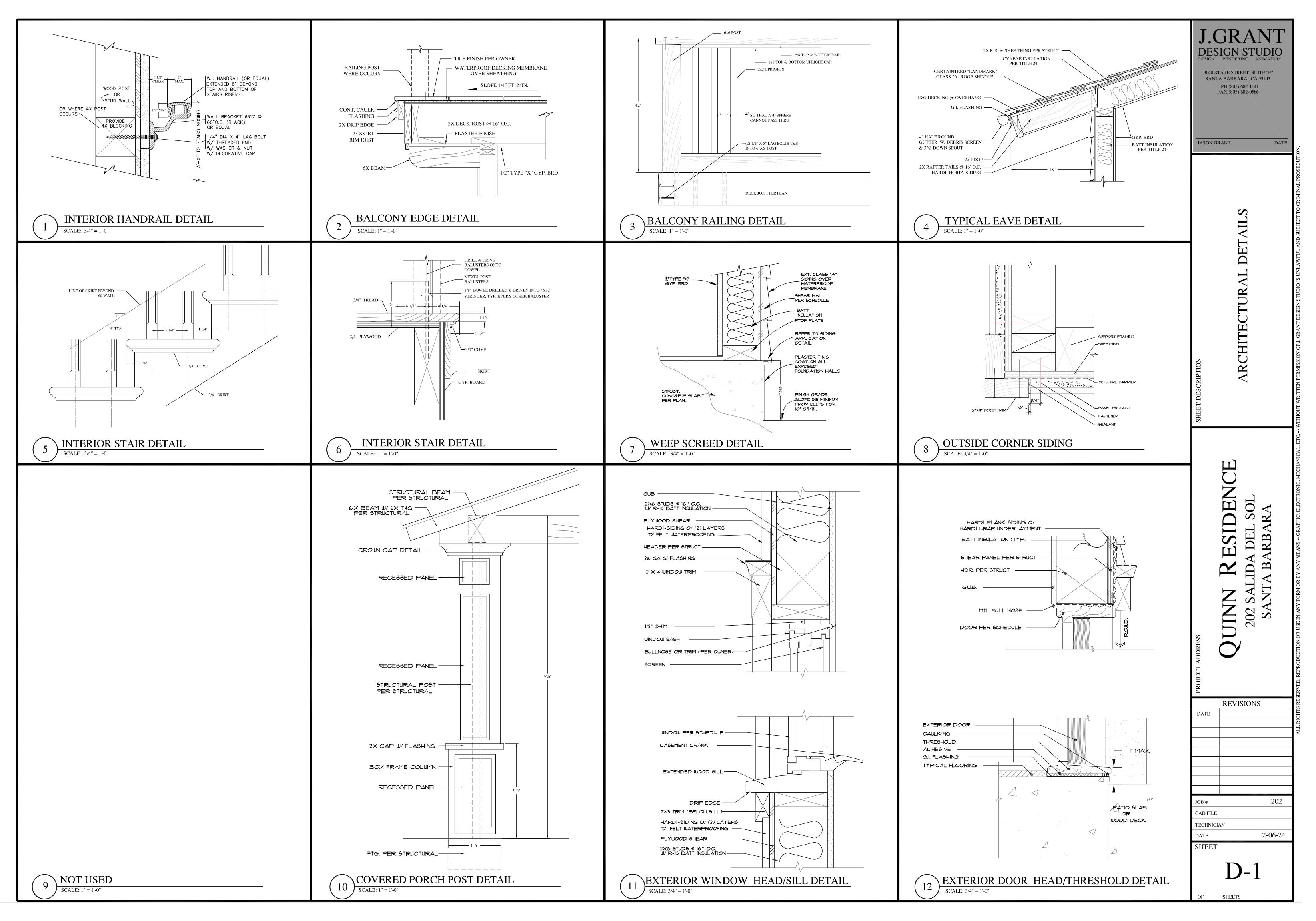
		SCHE		ED	UI	LE OF DOORS						
BOL		ш		SIZE		H		DETAIL	5	GLS.	DED	REMARKS GLAZED DOORS TO HAVE A MAX U. FACTOR = .30
SYMBOL	ατΥ.	ТУРЕ	w	Н	тн	HDR.	HD	JMB	SILL	TEMP	LEADED	AND MAX. SHGC = .25 LABELS MUST REMAIN UNTIL FINAL INSPECTION
1	1		6	5'-6" X 8'-	0"	8'-0''	WO	OD		X		CUSTOM ENTRY DOOR W/ SIDE LITES (PER OWNER)
2	2		2	'-6" X 8'-	0"	8'-0"	WO	OD W/ C	LAD	X		FRENCH DOOR
3	1		5	'-0'' X 8'-	0"	8'-0''	WO	OD W/ C	LAD	x		FRENCH DOORS
4	1		1	5'-0" X 8	'-0''	8'-0"	WO	OD W/ C	LAD	X		6 PANEL SLIDING DOOR SYSTEM
5	1		5	'-0'' X 6'-	·8''	6'-8"	WO	OD W/ C	LAD	x		FRENCH DOORS W/ 12" WIDE SITE LITES
6	1		2	'-6" X 6'-	-8''	6'-8''	WO	OD W/ C	LAD	x		FRENCH DOOR
7	1		5	'-0'' X 6'-	·8''	6'-8''	WO	OD W/ C	LAD	X		FRENCH DOORS W/ 24" WIDE OPERABLE SIDE LITES
8	3		4	-'-0'' X 6'-	-8''	6'-8"	WO	OD W/ C	LAD	X		FRENCH DOORS
9	7		2	2'-6'' X 8'-	0"	8'-0''	SO	LID COI	RE			3 PANEL INTERIOR DOOR (PER OWNER)
(10)	6		2	'-6" X 6'-	-8''	6'-8''	SO	LID COI	RE			3 PANEL INTERIOR DOOR (PER OWNER)
(11)	4		2	2'-2'' X 6'-	8''	6'-8''	SO	LID COI	RE			3 PANEL INTERIOR DOOR (PER OWNER)
(12)												

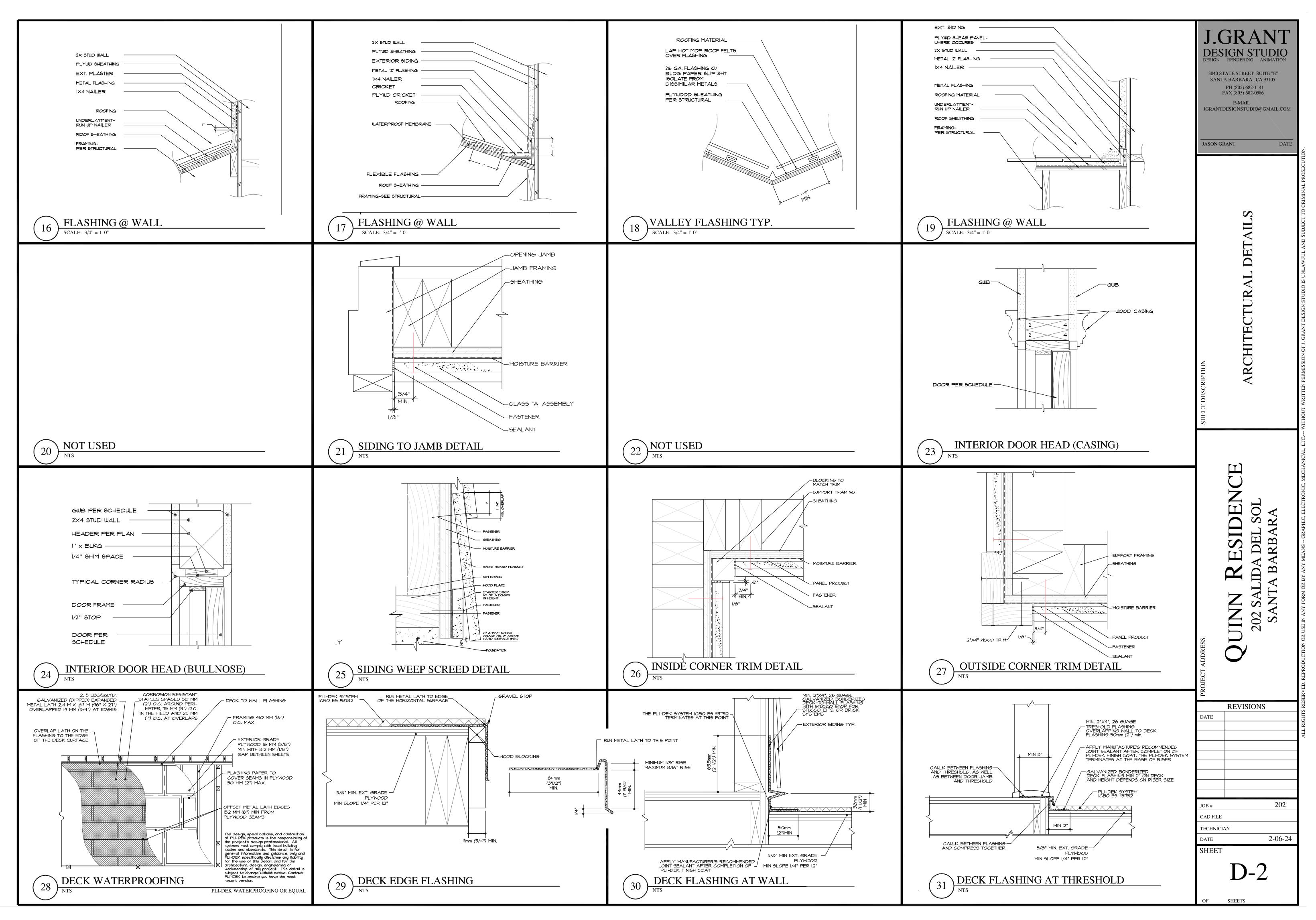




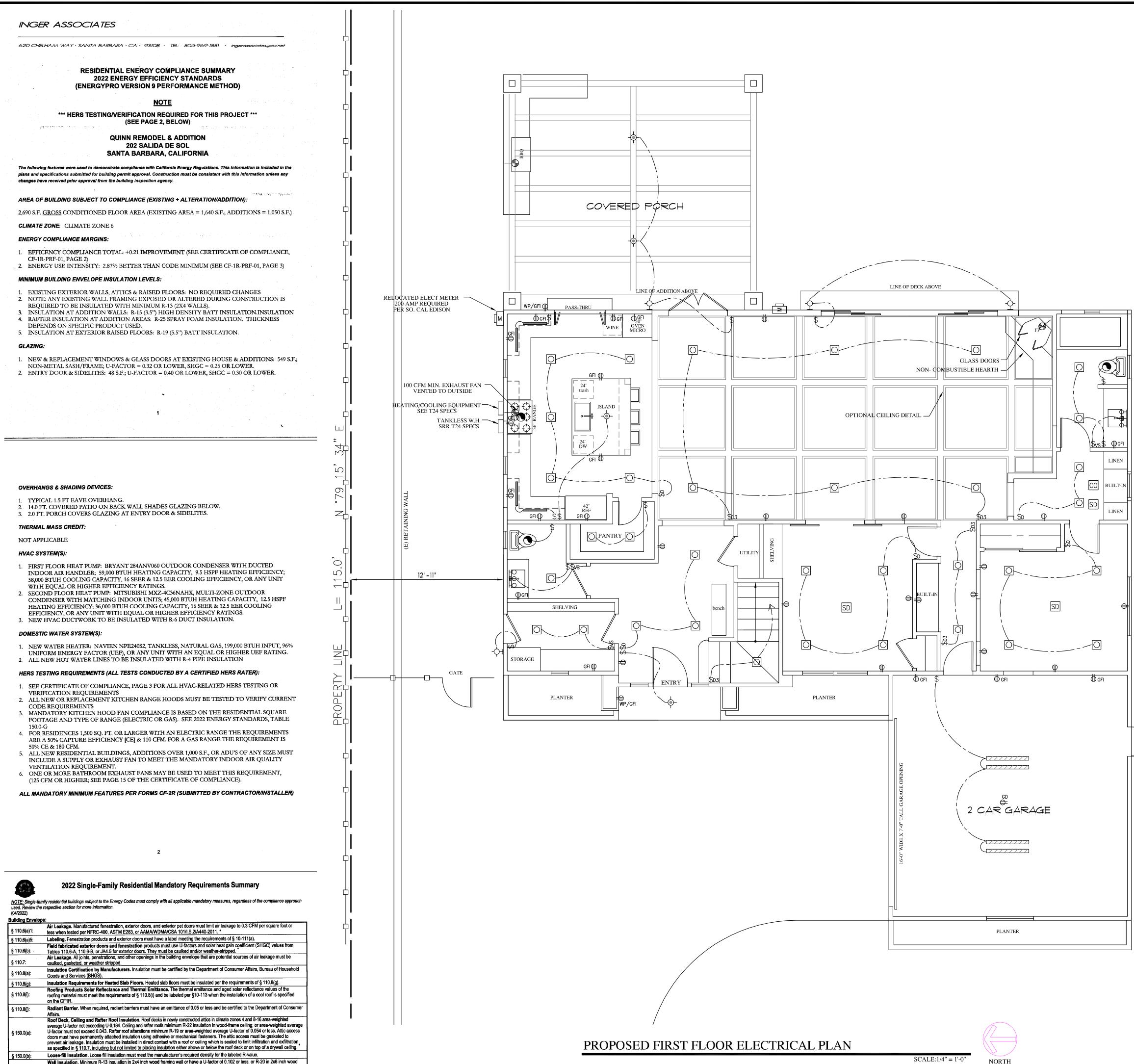
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E	1		4	'-0" X 4'-	8"	8'-0"	WO	OD
F	1		5	'-4" X 4'-	6"	8'-0"	WO	OD
G	1		3	'-0" X 4'-	6"	6'-8"	WO	DC
H	5		1	'-6" X 1'-	6"	V	WO	OD
$\langle I \rangle$	1		8	'-0" X 3'-	6"	6'-8"	WO	OD
$\langle J \rangle$								

SCHI	ED	UI	LE OF WINDOWS		J.GRANT
ETAILS	TEMP	LEADED	REMARKS GLAZED DOORS TO HAVE A MAX U. FACTOR = .30 AND MAX. SHGC = .25		DESIGN RENDERING PLANNING 3040 STATE STREET SUITE "E" SANTA BARBARA, CA 93105
D W/ CLAD	г Х		LABELS MUST REMAIN UNTIL FINAL INSPECTION CASEMENT		PH (805) 682-1141 FAX (805) 682-0586
D W/ CLAD	X		CASEMENT		E-MAIL JGRANTDESIGNSTUDIO@GMAIL.COM
DW/CLAD	X		4 PANEL BI-FOLD SYSTEM		
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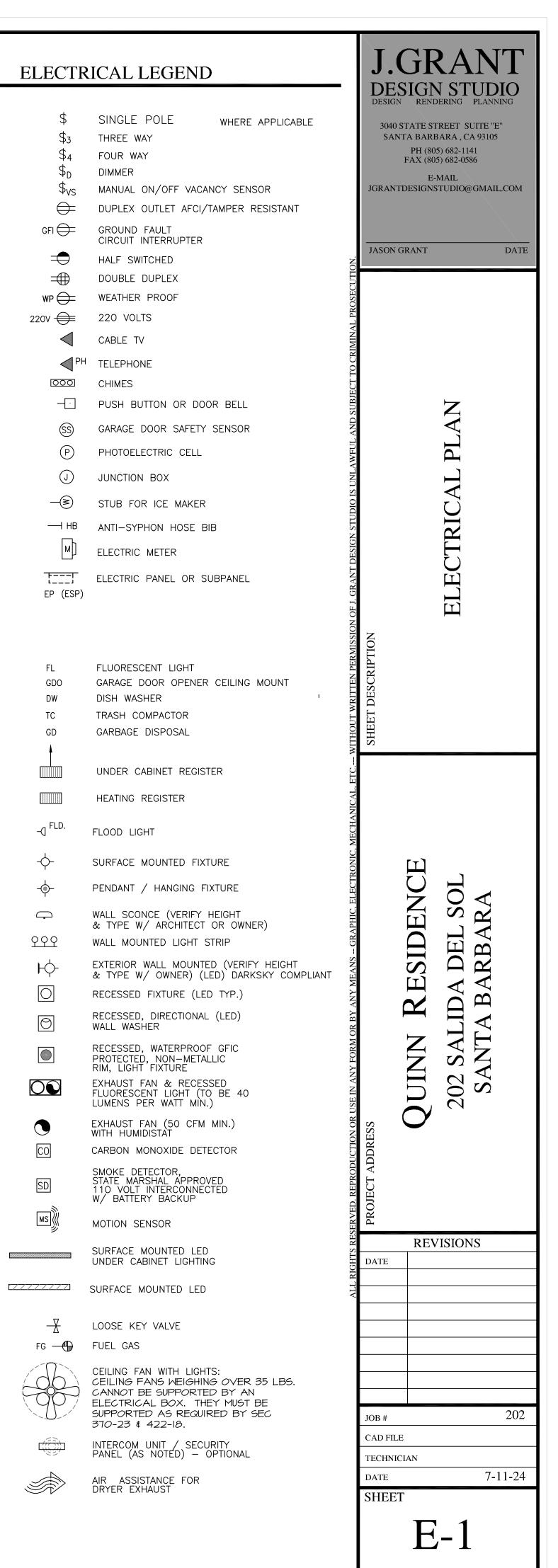


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§ 150.0(c):

Wall Insulation. Minimum R-13 insulation in 2x4 inch wood framing wall or have a U-factor of 0.102 or less, or R-20 in 2x6 inch wood framing or have a U-factor of 0.071 or less. Opaque non-framed assemblies must have an overall assembly U-factor not exceeding 0.102. Masonry wails must meet Tables 150.1-A or B.*



SHEETS

	2022 Single-Family Residential Mandatory Requirements Summary
§ 110.5:	Pilot Lights. Continuously burning pilot lights are prohibited for natural gas: fan-type central furnaces; household cooking appliances (except appliances without an electrical supply voltage connection with pilot lights that consume less than 150 Btu per hour); and pool and
	spa heaters.
§ 150.0(h)1:	Building Cooling and Heating Loads. Heating and/or cooling loads are calculated in accordance with the ASHRAE Handbook, Equipment Volume, Applications Volume, and Fundamentals Volume; the SMACNA Residential Comfort System Installation Standards Manual; or the ACCA Manual J using design conditions specified in § 150.0(h)2.
§ 150.0(h)3A:	Clearances. Air conditioner and heat pump outdoor condensing units must have a clearance of at least five feet from the outlet of any dryer.
§ 150.0(h)3B:	Liquid Line Drier. Air conditioners and heat pump systems must be equipped with liquid line filter driers if required, as specified by the manufacturer's instructions.
§ 150.0(j)1:	Water Piping, Solar Water-heating System Piping, and Space Conditioning System Line Insulation. All domestic hot water piping must be insulated as specified in § 609.11 of the California Plumbing Code. *
§ 150.0(j)2:	Insulation Protection. Piping insulation must be protected from damage, including that due to sunlight, moisture, equipment' maintenance, and wind as required by §120.3(b). Insulation exposed to weather must be water retardant and protected from UV light (no adhesive tapes). Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space must include, or be protected by, a Class I or Class II vapor retarder. Pipe insulation buried below grade must be installed in a waterproof and non-crushable casing or sleeve.
§ 150.0(n)1:	Gas or Propane Water Heating Systems. Systems using gas or propane water heaters to serve individual dwelling units must designate a space at least 2.5' x 2.5' x 7' suitable for the future installation of a heat pump water heater, and meet electrical and plumbing requirements, based on the distance between this designated space and the water heater location; and a condensate drain no more than 2' higher than the base of the water heater
§ 150.0(n)3:	Solar Water-heating Systems. Solar water-heating systems and collectors must be certified and rated by the Solar Rating and Certification Corporation (SRCC), the International Association of Plumbing and Mechanical Officials, Research and Testing (IAPMO R&T), or by a listing agency that is approved by the executive director.
ucts and Fans:	
§ 110.8(d)3:	Ducts. Insulation installed on an existing space-conditioning duct must comply with § 604.0 of the California Mechanical Code (CMC). If a contractor installs the insulation, the contractor must certify to the customer, in writing, that the insulation meets this requirement.
§ 150.0(m)1:	CMC Compliance. All air-distribution system ducts and plenums must meet CMC §§ 601.0-605.0 and ANSI/SMACNA-006-2006 HVAC Duct Construction Standards Metal and Flexible 3rd Edition. Portions of supply-air and return-air ducts and plenums must be insulated to R-6.0 or higher; ducts located entirely in conditioned space as confirmed through field verification and diagnostic testing (RA3.1.4.3.8) do not require insulation. Connections of metal ducts and inner core of flexible ducts must be mechanically fastened. Openings must be sealed with mastic, tape, or other duct-closure system that meets the applicable UL requirements, or aerosol sealant that meets UL 723. The combination of mastic and either mesh or tape must be used to seal openings greater than ½r, if mastic or tape is used. Building cavities, air handler support platforms, and plenums designed or constructed with materials other than sealed sheet metal, duct board or flexible duct must not be used to convey conditioned air. Building cavities and support platforms may contain ducts; ducts installed in
§ 150.0(m)2:	these spaces must not be compressed. Factory-Fabricated Duct Systems. Factory-fabricated duct systems must comply with applicable requirements for duct construction, connections, and closures; joints and seams of duct systems and their components must not be sealed with cloth back rubber adhesive duct tapes unless such tape is used in combination with mastic and draw bands.
§ 150.0(m)3:	Field-Fabricated Duct Systems. Field-fabricated duct systems must comply with applicable requirements for: pressure-sensitive tapes, mastics, sealants, and other requirements specified for duct construction.
§ 150.0(m)7:	Backdraft Damper. Fan systems that exchange air between the conditioned space and outdoors must have backdraft or automatic dampers.
§ 150.0(m)8:	Gravity Ventilation Dampers. Gravity ventilating systems serving conditioned space must have either automatic or readily accessible, manually operated dampers in all openings to the outside, except combustion inlet and outlet air openings and elevator shaft vents.
§ 150.0(m)9:	Protection of Insulation. Insulation must be protected from damage due tosunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather must be suitable for outdoor service (e.g., protected by aluminum, sheet metal, painted canvas, or plastic cover). Cellular foam insulation must be protected as above or painted with a water retardant and solar radiation-resistant coating.
§ 150.0(m)10:	Porous Inner Core Flex Duct. Porous inner cores of flex ducts must have a non-porous layer or air barrier between the inner core and outer vapor barrier.
§ 150.0(m)11:	Duct System Sealing and Leakage Test. When space conditioning systems use forced air duct systems to supply conditioned air to an occupiable space, the ducts must be sealed and duct leakage tested, as confirmed through field verification and diagnostic testing, in accordance with Reference Residential Appendix RA3.1.
§ 150.0(m)12:	Air Filtration. Space conditioning systems with ducts exceeding 10 feet and the supply side of ventilation systems must have MERV 13 or equivalent filters. Filters for space conditioning systems must have a two inch depth or can be one inch if sized per Equation 150.0-A. Clean-filter pressure drop and labeling must meet the requirements in §150.0(m)12. Filters must be accessible for regular service. Filter racks or grilles must use gaskets, sealing, or other means to close gaps around the inserted filters to and prevents air from bypassing the filter. *

5/6/22

2022 Single-Family Residential Mandatory Requirements Summary

Space Conditioning System Airflow Rate and Fan Efficacy. Space conditioning systems that use ducts to supply cooling must have a hole for the placement of a static pressure probe, or a permanently installed static pressure probe in the supply plenum. Airflow must be ≥ 350 CFM per ton of nominal cooling capacity, and an air-handling unit fan efficacy ≤ 0.45 watts per CFM for gas furnace air handlers and ≤ 0.58 watts per CFM for all others. Small duct high velocity systems must provide an airflow ≥ 250 CFM per ton of nominal cooling unit fan efficacy ≤ 0.62 watts per CFM. Field verification testing is required in accordance with Reference Residential Appendix RA3.3. *

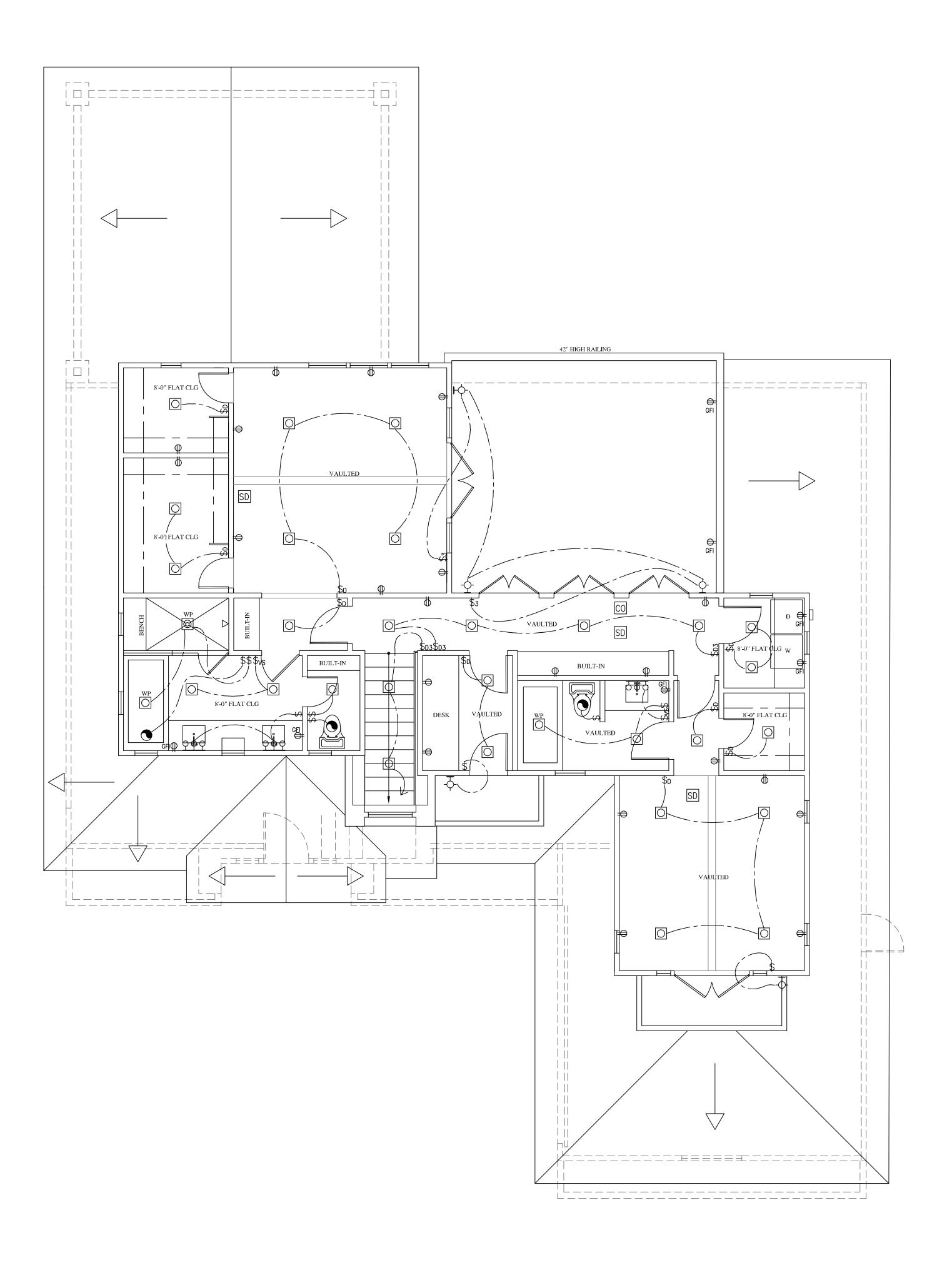
Ventilation and Indoor Air Quality: Requirements for Ventilation and Indoor Air Quality. All dwelling units must meet the requirements of ASHRAE Standard 62.2, Ventilation and Acceptable Indoor Air Quality in Residential Buildings subject to the amendments specified in § 150.0(o)1.* § 150.0(o)1: Central Fan Integrated (CFI) Ventilation Systems. Continuous operation of CFI air handlers is not allowed to provide the whole-§ 150.0(o)1B: dwelling unit ventilation airflow required per §150.0(o)1C. A motorized damper(s) must be installed on the ventilation duct(s) that prevents all airflow through the space conditioning duct system when the damper(s) is closed and controlled per §150.0(o)1Bili&iv. CFI entilation systems must have controls that track outdoor air ventilation run time, and either open or close the motorized damper(s) for compliance with §150.0(o)1C. Whole-Dwelling Unit Mechanical Ventilation for Single-Family Detached and townhouses . Single-family detached dwelling units and attached dwelling units not sharing ceilings or floors with other dwelling units, occupiable spaces, public garages, or commercial § 150.0(o)1C: spaces must have mechanical ventilation airflow specified in § 150.0(o)1Ci-iii. Local Mechanical Exhaust. Kitchens and bathrooms must have local mechanical exhaust; nonenclosed kitchens must have demand-§ 150.0(o)1G: 8150.0(o)1Giji enclosed kit continuous exhaust meeting §150.0(o)1Giii-iv. Airflow must be measured by the installer per §150.0(o)1Gv, and rated for sound per §150.0(o)1Gvi. * § 150.0(o)1H&I: Airflow Measurement and Sound Ratings of Whole-Dwelling Unit Ventilation Systems. The airflow required per § 150.0(o)1C must be measured by using a flow hood, flow grid, or other airflow measuring device at the fan's inlet or outlet terminals/grilles per Reference Residential Appendix RA3.7. Whole-Dwelling unit ventilation systems must be rated for sound per ASHRAE 62.2 §7.2 at no less than the minimum airflow rate required by §150.0(o)1C. Field Verification and Diagnostic Testing. Whole-Dwelling Unit ventilation airflow, vented range hood airflow and sound rating, and HRV and ERV fan efficacy must be verified in accordance with Reference Residential Appendix RA3.7. Vented range hoods § 150.0(o)2: must be verified per Reference Residential Appendix RA3.7.4.3 to confirm if it is rated by HVI or AHAM to comply with the airflow rates and sound requirements per §150.0(o)1G Pool and Spa Systems and Equipment: Certification by Manufacturers. Any pool or spa heating system or equipment must be certified to have all of the following: compliance \$ 110.4(a): with the Appliance Efficiency Regulations and listing in MAEDbS; an on-off switch mounted outside of the heater that allows shutting off the heater without adjusting the thermostat setting; a permanent weatherproof plate or card with operating instructions; and must not use electric resistance heating. * Piping. Any pool or spa heating system or equipment must be installed with at least 36 inches of pipe between the filter and the heater, or § 110.4(b)1: dedicated suction and return lines, or built-in or built-up connections to allow for future solar heating. Covers. Outdoor pools or spas that have a heat pump or gas heater must have a cover. § 110.4(b)2: Directional Inlets and Time Switches for Pools. Pools must have directional inlets that adequately mix the pool water, and a time § 110.4(b)3: switch that will allow all pumps to be set or programmed to run only during off-peak electric demand periods. Pilot Light. Natural gas pool and spa heaters must not have a continuously burning pilot light. § 110.5: Pool Systems and Equipment Installation. Residential pool systems or equipment must meet the specified requirements for pump § 150.0(p): sizing, flow rate, piping, filters, and valves. Lighting: Lighting Controls and Components. All lighting control devices and systems, ballasts, and luminaires must meet the applicable § 110.9: requirements of § 110.9.* Luminaire Efficacy. All installed luminaires must meet the requirements in Table 150.0-A, except lighting integral to exhaust fans, kitchen § 150.0(k)1A: range hoods, bath vanity mirrors, and garage door openers; navigation lighting less than 5 watts; and lighting internal to drawers, cabinets, and linen closets with an efficacy of at least 45 iumens per watt. § 150.0(k)1B: Screw based luminaires. Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA8.* Recessed Downlight Luminaires in Cellings. Luminaires recessed into ceilings must not contain screw based sockets, must be airtight, and must be sealed with a gasket or caulk. California Electrical Code § 410.116 must also be met. Light Sources in Enclosed or Recessed Luminaires. Lamps and other separable light sources that are not compliant with the JA8 § 150.0(k)1C: § 150.0(k)1D: evated temperature requirements, including marking requirements, must not be installed in enclosed or recessed turninaires. Blank Electrical Boxes. The number of electrical boxes that are more than five feet above the finished floor and do not contain a § 150.0(k)1E: luminaire or other device shall be no more than the number of bedrooms. These boxes must be served by a dimmer, vacancy sensor control, low voltage wiring, or fan speed control.
Lighting Integral to Exhaust Fans. Lighting integral to exhaust fans (except when installed by the manufacturer in kitchen exhaust hoods) must meet the applicable requirements of § 150.0(k). § 150.0(k)1F:

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2022 Single-Family Residential Mandatory Requirements Summary

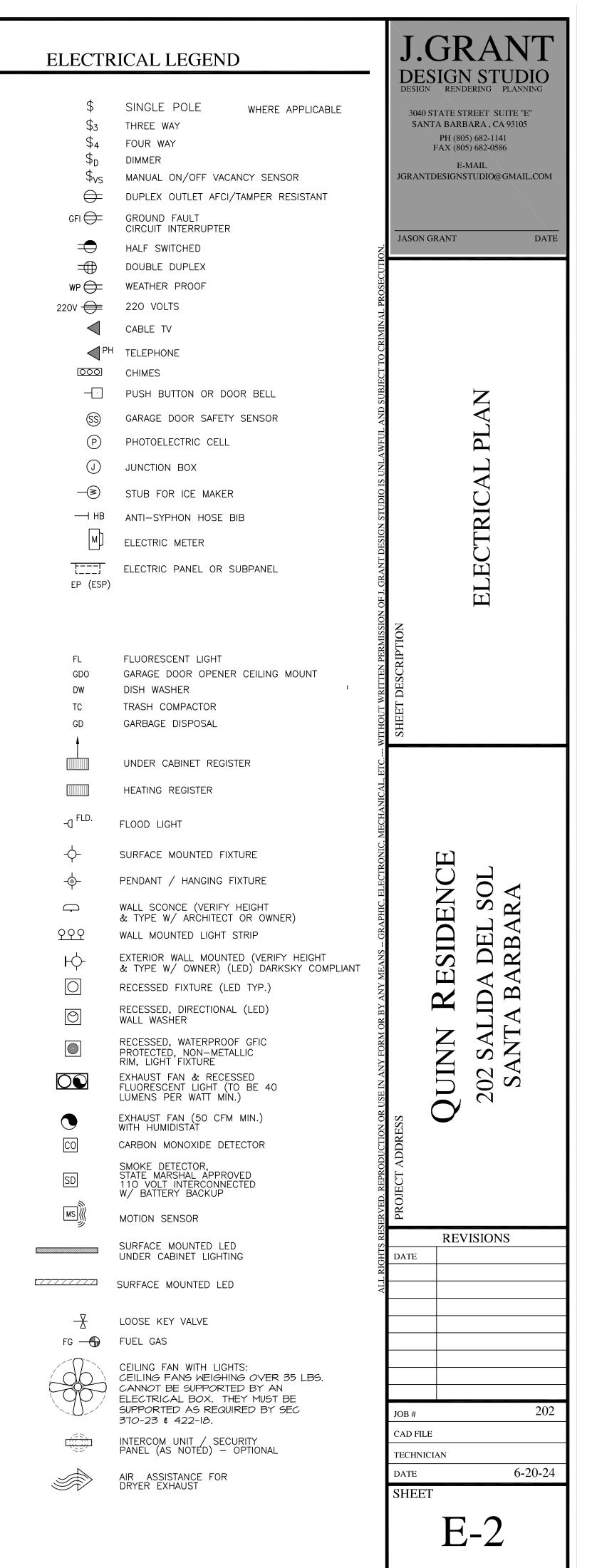
	2022 Single-Family Residential Mandatory Requirements Summary
§ 150.0(k)1G:	Screw based luminaires. Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA8.*
§ 150.0(k)1H:	Light Sources in Enclosed or Recessed Luminaires. Lamps and other separable light sources that are not compliant with the JA8 elevated temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires.
§ 150.0(k)11:	Light Sources in Drawers, Cabinets, and Linen Closets. Light sources internal to drawers, cabinetry or linen closets are not required to comply with Table 150.0-A or be controlled by vacancy sensors provided that they are rated to consume no more than 5 watts of power, emit no more than 150 lumens, and are equipped with controls that automatically turn the lighting off when the drawer, cabinet or linen closet is closed.
§ 150.0(k)2A:	Interior Switches and Controls. All forward phase cut dimmers used with LED light sources must comply with NEMA SSL 7A.
§ 150.0(k)2B:	Interior Switches and Controls. Exhaust fans must be controlled separately from lighting systems.
§ 150.0(k)2A:	Accessible Controls. Lighting must have readily accessible wall-mounted controls that allow the lighting to be manually turned on and off. *
§ 150.0(k)2B:	Multiple Controls. Controls must not bypass a dimmer, occupant sensor, or vacancy sensor function if the dimmer or sensor is installed to comply with § 150.0(k).
§ 150.0(k)2C:	Mandatory Requirements. Lighting controls must comply with the applicable requirements of § 110.9.
§ 150.0(k)2D:	Energy Management Control Systems. An energy management control system (EMCS) may be used to comply with dimming, occupancy, and control requirements if it provides the functionality of the specified control per § 110.9 and the physical controls specified in § 150.0(k)2A.
§ 150.0(k)2E:	Automatic Shutoff Controls. In bathrooms, garages, laundry rooms, utility rooms and walk-in closets, at least one installed luminaire must be controlled by an occupancy or vacancy sensor providing automatic-off functionality. Lighting inside drawers and cabinets with opaque fronts or doors must have controls that turn the light off when the drawer or door is closed.
§ 150.0(k)2F:	Dimmers. Lighting in habitable spaces (e.g., living rooms, dining rooms, kitchens, and bedrooms) must have readily accessible wall- mounted dimming controls that allow the lighting to be manually adjusted up and down. Forward phase cut dimmers controlling LED light sources in these spaces must comply with NEMA SSL 7A.
§ 150.0(k)2K:	Independent controls. Integrated lighting of exhaust fans shall be controlled independently from the fans. Lighting under cabinets or shelves, lighting in display cabinets, and switched outlets must be controlled separately from ceiling-installed lighting.
§ 150.0(k)3A:	Residential Outdoor Lighting. For single-family residential buildings, outdoor lighting permanently mounted to a residential building, or to other buildings on the same lot, must have a manual on/off switch and either a photocell and motion sensor or automatic time switch control) or an astronomical time clock. An energy management control system that provides the specified control functionality and meets all applicable requirements may be used to meet these requirements.
§ 150.0(k)4:	Internally illuminated address signs. Internally illuminated address signs must either comply with § 140.8 or consume no more than 5 watts of power.
§ 150.0(k)5:	Residential Garages for Eight or More Vehicles. Lighting for residential parking garages for eight or more vehicles must comply with the applicable requirements for nonresidential garages in §§ 110.9, 130.0, 130.1, 130.4, 140.6, and 141.0.
Solar Readiness	
§ 110.10(a)1:	Single-family Residences. Single-family residences located in subdivisions with 10 or more single-family residences and where the application for a tentative subdivision map for the residences has been deemed complete and approved by the enforcement agency, which do not have a photovoltaic system installed, must comply with the requirements of § 110.10(b)-(e).
	Minimum Solar Zone Area. The solar zone must have a minimum total area as described below. The solar zone must comply with access, pathway, smoke ventilation, and spacing requirements as specified in Title 24, Part 9 or other parts of Title 24 or in any



PROPOSED SECOND FLOOR ELECTRICAL PLAN



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



SHEETS

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W-1.1	Window	WEST WALL	Front	265	1.5	3.5	1 5.	.3 0.3	2 N/	FRC 0.	25	NFRC	Bug Sc	reen	New	NA
W-1.2	Window	WEST WALL	+	265	2.5	4.5		1.2 0.3		FRC 0.		NFRC	Bug Sc		New	NA
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D-1.A	Window	EAST WALL	Back	85	5	8		40 0.3		FRC 0.		NFRC	Bug So		New	NA
D-1.8	Window	EAST WALL	Back	85	5	8		20 0.3			.25	NFRC	Bug Sc		New	NA
W-1.8	Window	EAST WALL	Back	85	'	\vdash		5.3 0.3 1.2			.25	NFRC	Bug Sc	reen	New	NA
W-1.9	Window	SOUTH WALL	Right	175	2.5	4.5	1 11	1.2 9 0.3	2 NF	FRC 0.	.25	NFRC	Bug So	reen	New	NA
W-1.10	Window	SOUTH WALL	Right	175	2.5	4.5		1.2 9 0.3	2 N	FRC 0.	.25	NFRC	Bug Sc	reen	New	NA
W-1.11	Window	SOUTH	Right	175	1.5	2.5		3.8 0.3	2 1	FRC 0.	.25	NFRC	Bug Sc	reen	New	NA
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D-2.C		1.5 0.5	_	6	0	0	0	D	0	0	0	0		New	NA	
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CA Building Energy Efficiency Standards - 2022 Residential Compliance Report Version: 2022.0.000 Scheme Version: rev 20220901 2022 Single-Family Residential Ma
 S 150.0(k)1G: Screw based luminaires. Screw based luminaires must con
 Light Sources in Enclosed or Recessed Luminaires. Lam
 elevated temperature requirements, including marking require 2022 Single-Family Residential Mandatory Requirements Summary NOTE: Single-family residential buildings subject to the Energy Codes must comply with all applicable mandatory measures, regardless of the compliance approach used. Review the respective section for more information. (04/2022)

 (04/2022)

 Building Envelope:

 Air Leakage. Manufactured fenestration, exterior doors, and exterior pet doors must limit air leakage to 0.3 CFM per square foot or less when tested per NFRC-400, ASTM E283, or AAMA/WDMA/CSA 101/LS.2/A440-2011.*

 § 110.8(a)1:
 Labeling. Fenestration products and exterior doors must have a label meeting the requirements of § 10-111(a).

 § 110.8(a)5:
 Labeling. Fenestration products and exterior doors must have a label meeting the requirements of § 10-111(a).

 § 110.8(b):
 Tables 110.6-A, 110.6-B, or JAA.5 for exterior doors. They must be called and/or weather stripped.

 Air Leakage. All joints, penetrations, and other openings in the building envelope that are potential sources of air leakage must be called, gasketed, gaskete Light Sources in Drawers, Cabinets, and Linen Closets.
 S 150.0(k)11: to comply with Table 150.0-A or be controlled by vacancy se
 power, emit no more than 160 lumens, and are equipped wi
 inen close 1/s closed.
 S 150.0(k)2A: Interior Swfiches and Controls. All forward phase cut dime
 of the Autor.

 § 150.0(k)22:
 Interior Switches and Controls. Al forward phase cut dimme

 § 150.0(k)22:
 Interior Switches and Controls. Exhaust fans must be controls. (sphing must have readily accessible von and off.*

 § 150.0(k)22:
 Multiple Controls. Controls must not bypass a dimmer, occup (sphing function). (sphing must have readily accessible von and off.*

 § 150.0(k)22:
 Multiple Controls. Controls must not bypass a dimmer, occup (sphing function). (sphing controls must comply with (sphing function). (sphing controls must comply with (sphing function). (sphing controls must comply with (sphing function). (sphing controls must have control requirements if it provides the functione in § 150.0(k)2A.

 Automatic Shudoff Controls. In bathrooms, garages, laundry (sphing function). (sphi Kadiant Barrier, When required, radiant barriers must have an emittance of 0.05 or less and be certified to the Department of Consumer
 Affairs.
 Roof Deck, Ceiling and Rafter Roof Insulation. Roof decks in newly constructed attics in climate zones 4 and 8-16 area-weighted
 average U-factor not exceeding U-0.184. Ceiling and rafter roofs minimum R-22 insulation in wood-farme ceiling; or area-weighted average
 U-factor not exceeding U-0.184. Ceiling and rafter roofs minimum R-22 insulation in wood-farme ceiling; or area-weighted average
 U-factor not exceeding U-0.184. Ceiling and rafter roofs minimum R-22 insulation in wood-farme ceiling; or area-weighted average
 U-factor must not exceed 0.043. Rafter roof alterations or nor an average U-factor 0.056 or less. Attle access
 doors must have permanently attached insulation using adhesive or mechanical Easteners. The aftle access must be gasketed to
 prevent at leakage. Insulation must be installed In direct contact with a roof or ceiling which is sealed to limit infiltration and extiltration
 as specified in § 110.7, incluing but not limited to placing insulation either above or below the roof deck or on top of a dynvall ceiling.
 § 150.0(b): Locee-fill Insulation. Locee fill insulation must meet the manufacturer's required density for the labeled R-value.
 Wall Insulation. Minimum R-13 insulation in 2x4 inch wood farming wall or have a U-factor of 0.102 or less, or R-20 in 2x6 inch wood
 farming or have a U-factor of 0.071 or less. Opeque non-framed assemblies must have an overall assembly U-factor not exceeding 0.102.
 Masonry walls must meet Tables 150.1-A or B.*
 Masonry wells must meet Tables 150.1-A or B.*

 § 150.0(c):
 Raised-floor insulation. Minimum R-19 insulation in raised wood framed floor or 0.037 maximum U-factor.*

 Stab Edge Insulation. Stab edge insulation must meet all of the following: have a water absorption rate, for the insulation material alone without featings, on greater than 0.3 percent, have a water vapor permeance no greater than 2.0 perm per inch; be protected from physical damage and UV light deterioration; and, when installed as part of a headed slab floor, meet the requirements of § 110.8(g).

 Vapor Retarder. In climate zones 1 through 16, the earth floor of unvented crawl space must be covered with a Class I or Class II vapor retarder. This requirement also applies to controlled ventilation ravel space for buildings complying with the exception to \$ 150.0(g):

 vapor Retarder. In climate zones 14 and 16, a Class I or Class II vapor retarder must be installed on the conditioned space side of all insulation in all exterior wells, vented attics, and unvented attics with air-permetable insulation.

 Fenestration Products. Fenestration, including skylights, separating conditioned space or outdoors must have a maximum U-factor 0.40; or 10.40; everighted average U-factor of all fenestration must not exceed 0.45.

 Finealaces. Decorative Gas Appliances, and Gas Log:
 Masonry walls must meet Tables 150.1-A or B.*
 Fireplaces, Decorative Gas Appliances, and Gas Log:

 § 110.5(e)
 Pilot Light. Continuously burning pilot lights are not allowed for indoor and outdoor fireplaces.

 § 150.0(e)1:
 Closable Doors. Masonry or factory-built fireplaces must have a closable metal or glass door covering the entire opening of the firebox.

 § 150.0(e)2:
 area and is equipped with a readity accessible, operable, and tight-fitting damper or combustion-air control device.
 located on the roof or overhang of the building and have a t § 110.10(b)2: Azimuth. All sections of the solar zone located on steep-slo
 § 110.10(b)2:
 Azimuth. All sections of the solar zone located on steep-slope

 \$ shading. The solar zone must not contain any obstructions, in

 \$ 110.10(b)3:
 Shading. The solar zone must not contain any obstructions, in

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 Shading. Any obstruction located on the roof or any other part of

 \$ 110.10(b)3:
 Shading. Any obstruction located on the roof or any other part of

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 \$ 110.10(b)4:
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 Interconnection Pathways. The construction documents mu

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 Main Electrical Service Panel. The main electrical service part or

 \$ 110.10(e):
 Main Electrical Service Panel. The main electrical service part or
 § 150.0(e)3: Flue Damper. Masonry or factory-built fireplaces must have a flue damper with a readily accessible control.*

 § 150.0(9)3:
 Flue Damper. Masonry or ractory-oullit imparters must have a new campes must is user, and a second provide the second provide provide the second provide provid

 § 110.2(c):
 Thermostats. All heating or cooling systems not controlled by a central energy management control system (EMCS) must have a setback thermostat.

 § 110.2(c):
 Insulation. Unfind service water heater storage tanks and solar water-heating backup tanks must have adequate insulation, or tank surface heat loss rating.

 § 110.3(c)3:
 Isolation Valves. Instantaneous water heaters with an input rating greater than 6.8 kBtu per hour (2 kW) must have isolation valves with hose bibbs or other fittings on both cold and hot water lines to allow for flushing the water heater when the valves are closed.

 5/6/22 5/6/22

Registration Number: 224-P010090105A-000-000-0000000-0000

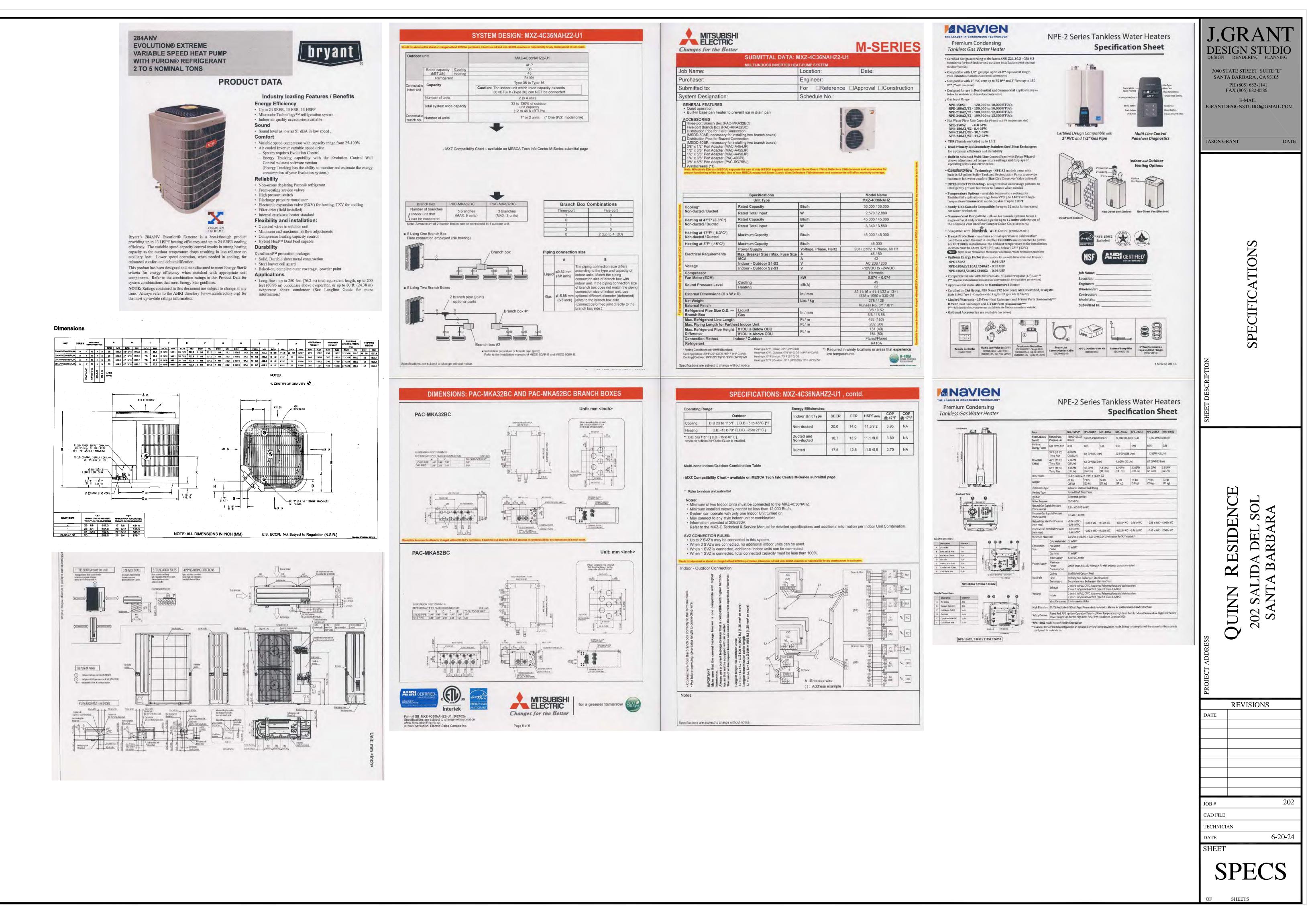
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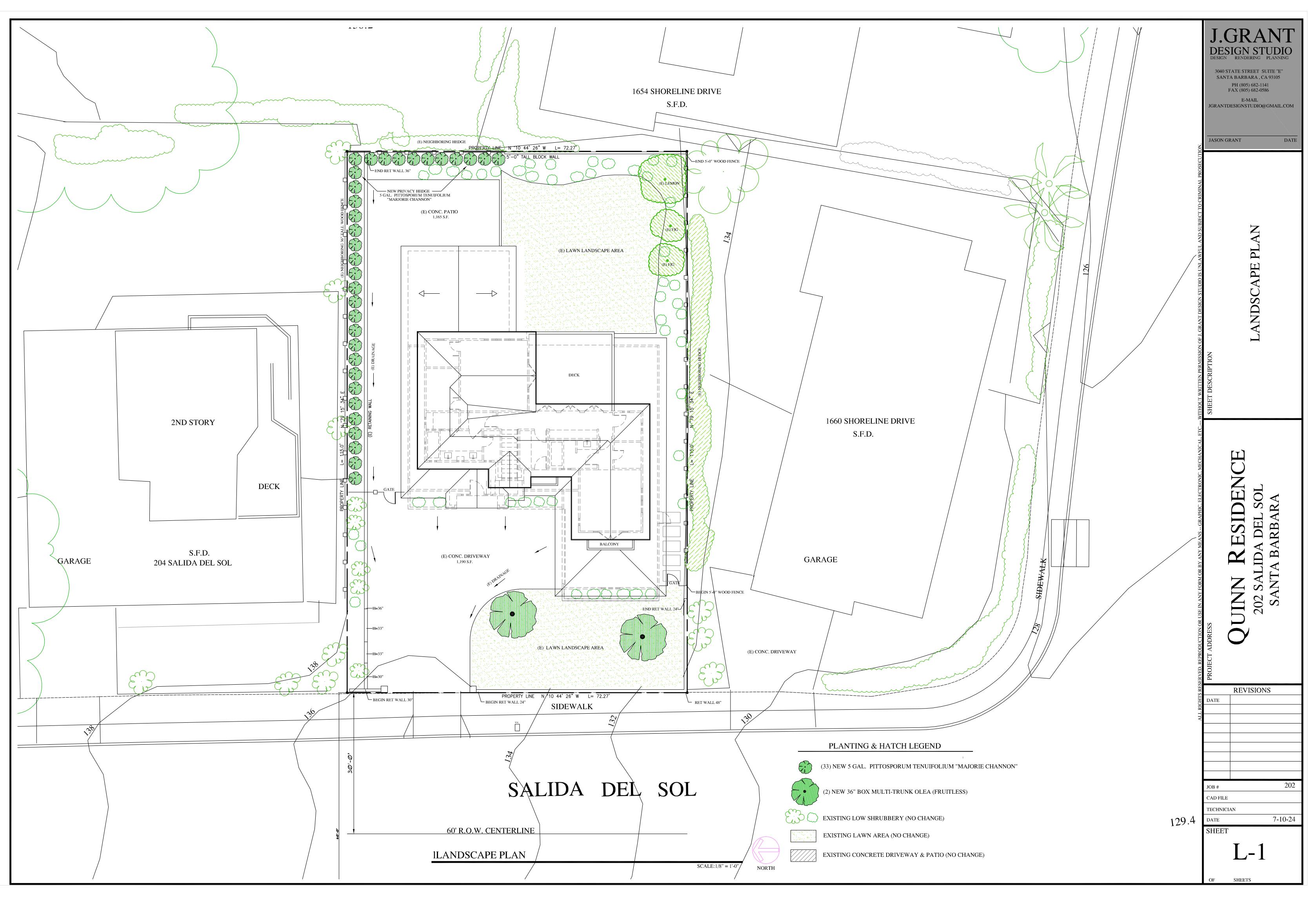
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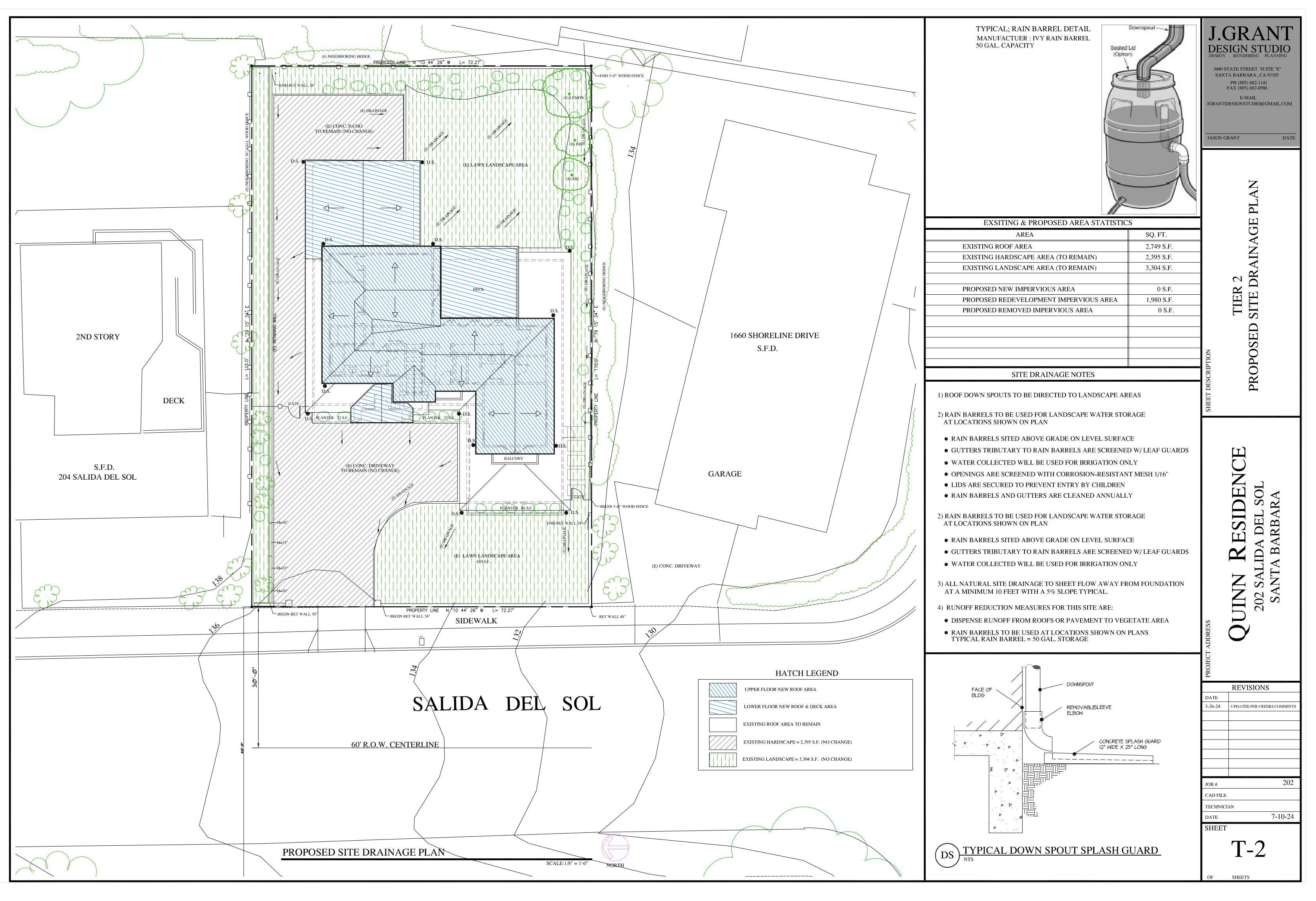
SHEETS







BEST MANAGEMENT PRACTICES: ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ON SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES OR WIND. STOCKPILES OF EARTH AND OTHER CONSTRUCTION RELATED MATERIALS MUST BE PROTECTED FORM BEING TRANSPORTED FORM THE SITE BY THE FORCES OF WIND OR WATER FUELS, OILS, SOLVENTS AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND ARE NOT TO CONTAMINATE THE SOIL AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MAY NOT BE WASHED INTO THE DRAINAGE SYSTEM. EXCESS OR WASTE CONCERTE MAY NOT BE WASHED INTO THE PUBLIC WAY OR ANY OTHER DRAINAGE SYSTEM. PROVISIONS MUST BE MADE TO RETAIN CONCRETE WASTES ON SITE UNTIL THEY CAN BE DISPOSED OF AS A SOLID WASTE. TRASH AND CONSTRUCTION RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED	J.G.G.R.A.D.T.C.DESIGNRENDERINGPLANNINGPLANNINGSAUSTATE STREET SUITE "E" SANTA BARBARA, CA 93105DH (805) 682-1141 BAX (805) 682-0586LF (805) 682-0586LF MAIL JGRANTDESIGNSTUDIO@GMAIL.COM
RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND. SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO INHIBIT SEDIMENTS FORM BEING DEPOSITED INTO THE PUBLIC WAY. ACCIDENTAL DEPOSITIONS MUST BE SWEPT UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS. ANY SLOPES WITH DISTURBED SOILS OR DEMANDED OF VEGETATION MUST BE STABILIZED SO AS TO INHIBIT EROSION BY WIND OR WATER.	SHEFT DESCRIPTION EXISTING SITE DRAINAGE PLAN
	SUBURCE STREET



NOTICE TO OWNER

The engineer does not warrant or guarantee the accuracy and completeness of the work herein beyond a reasonable diligence and this structural design has incorporated a reasonable assumption of economy of design. If any omissions, mistakes, or discrepancies are found to exist within the work product, the engineer shall be promptly notified so that he may have the opportunity to take whatever steps necessary to resolve them. Failure to promptly notify the engineer of such conditions shall absolve him from any responsibility for the consequences of such failure. The contractor shall be licensed and insured, otherwise the engineer does not assume any responsibility for the engineers work product. Contractor shall verify all dimensions, elevations and shall evaluate the existing site and design conditions prior to starting any work. The contractor shall promptly and before such conditions are disturbed, notify the design professionals in writing of subsurface or latent physical conditions at the site differing materially from those indicated in the documents or unknown physical conditions at the site of an unusual nature differing materially from those ordinarily encountered and generally recognized as inherent in the work of the character provided for in this product.

Additions & Remodels:

This report does not cover latent defects or the evaluations of geological conditions, exterior drainage or household pests and no assurance is given that the subject home or its systems are built or maintained in accordance with building codes. The contractor shall supervise and direct the work using his best skill and attention. He shall be solely responsible for all construction means, methods, techniques, sequences and procedures and for coordinating all portions of the work and shall be in strict accordance with the best standard specifications of materials and applications. The owner prior to installation shall approve all finish material. The contractor is responsible for installing all required temporary bracing and shoring to insure the safety of the work until is completed. He shall insure that all applicable safety laws are strictly enforced and shall protect all work and materials from damage.

Engineer always recommends a soils report from the owner. If one is not provided, the engineer shall design footings per CBC2022 (or latest revision). Site observation and site review shall be per separate contract with the owner. Should any dispute arise regarding this work, all parties agree that the sole remedy for any such dispute shall be decided by the procedures provided by the American Arbitration Association and this arbitration shall be binding upon all parties and if the engineer is found to have performed his work per contract or agreement, then the engineer shall be reimbursed for reasonable attorney's fees and in addition if it is found that a "bad faith" claim was filed or owner cardinal changes made, punitive or treble damages shall be recovered from the claimant and said claimant shall be responsible for consequential, direct, impact and loss of efficiency damages to the engineer. Under no circumstances shall engineer pay claimant attorney fees or other costs associated with this project.

CONCRETE SPECIFICATIONS

- . All Concrete per ACI 318. Concrete Strength to be 2500 PSI UNO. Per CBC
- 2. #4 and Smaller Bars to be Grade 40 Steel. #5 & Larger to be Grade 60. 3. All Reinforcing Steel shall be of Intermediate Grade Billet Steel as per ASTI
- per ASTM A305.
- . All Bar Splices shall be 48 Bar Diameters unless Noted Otherwise. Splices of Reinforcing Bars shall be Staggered Whenever Possible & Conform to ACI 3
- 5. Anchor Bolts shall be a Minimum Embedment of 7 Inches.
- 6. Do Not Use Aggregates Known to Cause Excessive Shrinkage.
- 7. Cement Conforming to ASTM C-150. Aggregate per ASTM C-33.
- 8. Interior and Exterior Slabs on Grade shall be Reinforced with Welded Wire F in Center of Slab UNO.
- 9. All Anchor Bolts, Reinforcing Steel, Dowels, Inserts etc. shall be Well Secur Prior to Concrete Pour.
- 10. Footings per CBC 2022 Must be Poured Against Undisturbed Natural Soil v Minimum Depth into Firm Natural Soil. UNO.
- 1. It is the Contractors Responsibility to Verify Soil Conditions Unless a Soils I Consulted.
- 2. Welded Wire Fabric per ASTM A185. Bending per ACI 318 & ACI 301.
- 13. Concrete Protection for Reinforcement shall be as Follows: Concrete Placed Against Ground Formed Concrete Exposed to Ground Slabs and Walls Not Exposed to Ground or Weather 3/4"
- 14. No Pipes or Ducts shall be Placed in Concrete Unless Specifically Detailed.
- 5. Slab on Grade shall be Placed in Checkerboard Manner: Each Area of Pour I
- 600 Sq. Ft. or a Maximum Run of 40' Linear Ft.
- 16. Horizontal Wall Bar Splices shall be Staggered 4 Ft. Min.

HOLD DOWN ANCHORS

- 17. All Anchor Bolts and Hold-Down Anchors shall be Placed 1.75 Inches Min. Embedment of Hold-Down Bolts shall be 16 Inches. UNO
- 18. Corner Installation. Where Hold-Down is Installed Less Than 5 Inches from Bar shall be Placed Outside of HD-Bolt, 6 Inches Below Top of Slab and sha Inches in Both Directions from Center.
- 19. In No Case shall Hold-Down Anchors be Closer than 2.5 In. End Distance

							N.D.S.					
n	Structur	al 1		/all ming	Application	Maximum Allowable Shear						
						Seismic	Wind					
7	<u>15"</u> 32"		2:	x4	Apply One		340#/Ft.	475#/Ft.				
3					Side		510#/Ft.	715#/Ft.				
7							665#/Ft.	930#/Ft.				
<u>></u>	•		3:	x4	▼		870#/Ft.	1217#/Ft.				
	Max. Shear			ling Schedu		A1	or Bolt	Retro-Fit - Threade				
	Used		r Panel . /Edge	Interim Field	Sill Plate Nailing .		or Bolt)" O.C.	W/ 7" Embedment Simpson "Set X				
\overline{V}	340#/FT	10d @	6" O.C.	12" O.C.	16d @ 4" O.C.	5/ 8 "Ø @) 32" O.C.	5/8"ø @ 32" O.C	2.			
7	510#/FT	Ĭ	4" O.C.		**SDS @ 6" O.C. w/1 3/4" Comp. Lumber	@	24" O.C.	@ 24" O.C				
7	665#/FT		3" O.C.		**SDS @ 6" O.C. w/1 3/4" Comp. Lumber	a) 16" O.C.	@ 16" O.C	•			
<u>}</u>	870#/FT	♦@	2" O.C.	↓	**SDS @ 6" O.C. w/3 1/2" Comp. Lumber	↓ @) 16" O.C.					
lote lav 1	s: Use 3x4 Studs in	n Liew of	2x6 Studs						- - —1/2"			
**	3x Sill w/ SDS Per Shear Scheo	1/4" x 6"	Self Drillin	g Screws.				3/8"	3/8"			
**1	ntinuous 3/4" Structural 3 1/2" Structural	Composi	te Lumber	@ Schedule	<u>م</u>				LPT5 Per Details.			
Use Mu	a 3x Blocking at Striple 2x is According tagger Nailing	t all Panel	Edges.				6 (° 17					
	Minim	um Siz	e for Sq	uare Plate	Washers		Section Vi		-			
te N	Washers shall be	e Providec	l for all Ply	wood Shear	Wall Sill Plate Anchor Bol	ts. Flo	or Joist		Ŧ			
	Bolt Size			Plate	Size 13/4"	Structural site Lumber		7	1 3" Min.			
	5/8 "Ø			.229 x 3		@ Schedule	<u>∕</u> ⊅∖		End Dist.			
	3/4 "Ø			5/16" x			DS Screws Per e Plate ———	Schedule	6" Min. ↓			
	7/8 "Ø			5/16" x	3" x 3"	2000			7/8"			
							<u>Plan View</u>					

REINFORCING STEEL

CONCRETE AND CMU BLOCK REINFORCING STEEL

<u>REFER</u>	RENCE STANDARDS:
(2) A (3) C (4) A (5) C (6) A (7) C	To: CI 318-19"Standard Specifications for Structural Concrete", Section 3 "Reinforcement Suppor CI SP-66 "ACI Detailing Manual" Including ACI 315 "Details and Detailing of Concrete Reinfo RSI MSP- "Manual of Standard Practice." NS/AWS D1.4 "Structural Welding Code - Reinforcing Steel." BC Chapter 19 - Concrete. CI 318 - Latest Edition. (318-19) onform to ASTM A-185, For Welded Wire Fabric. ITTALS:
Conform	to ACI Sec. 3.11 "Submittals, Data and Drawings." Submit Placing Drawings Showing Fabrica tions for Placement of Reinforcement and Reinforcement Supports.
MATE	RIALS:
Bar Supp Tie Wire Fibrous I	ing BarsASTM A615, and Supplement S1 Grade 60, Deformed Bars, Fy = 60,000 PSI oortsCRSI MSP -, Chapter 3 "Bar Supports."
<u>FABRI</u>	CATION:

Conform to ACI 318-19'Fabrication", and ACI SP-66 "ACI Detailing Manual."

WELDING:

Bars Shall Not Be Welded Unless Authorized. When Authorized, Conform to ACI 301, "Welding" and Pr A706, Grade 60 Reinforcement.

PLACING:

- 1. Conform to ACI 318- "Placement." Placing Tolerances Shall Conform to Sec. 3.3.2.1 "Tolerances." 2. No Bars Partially Embedded in Hardened Concrete Shall Be Field Bent Unless Specifically So Details
- By the Stractural Engineer. 3. Concrete Wall Reinforcing -- Provide the Following Unless Detailed Otherwise

-	Concrete Wall Reinforcing Provide the Following Unless Detailed Otherwise:			
	6" Walls	#4 @ 16" Horizontal	#4 @ 18" Vertical	1 Curtain
	8" Walls	#4 @ 18" Horizontal	#4 @ 18" Vertical	2 Curtains
	10" Walks	#5 @ 18" Horizontal	#5 @ 18" Vertical	2 Curtains
	12" Walls	#5 @ 16" Horizontal	#5 @ 18" Vertical	2 Curtains

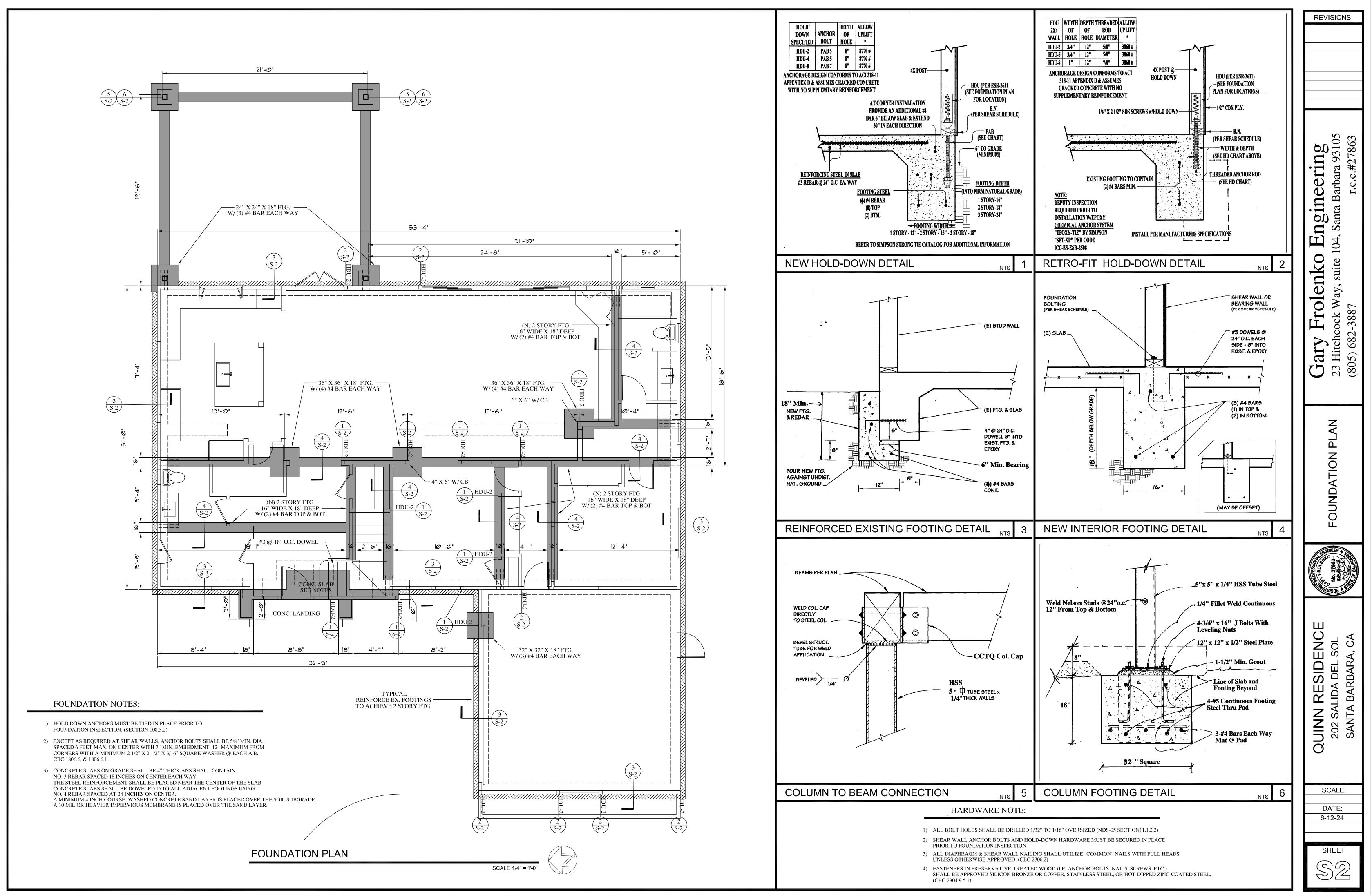
4. Reinforcing Steel Shall Bae Detailed (Including Hooks and Bends) In Accordance With ACI 315 & 3

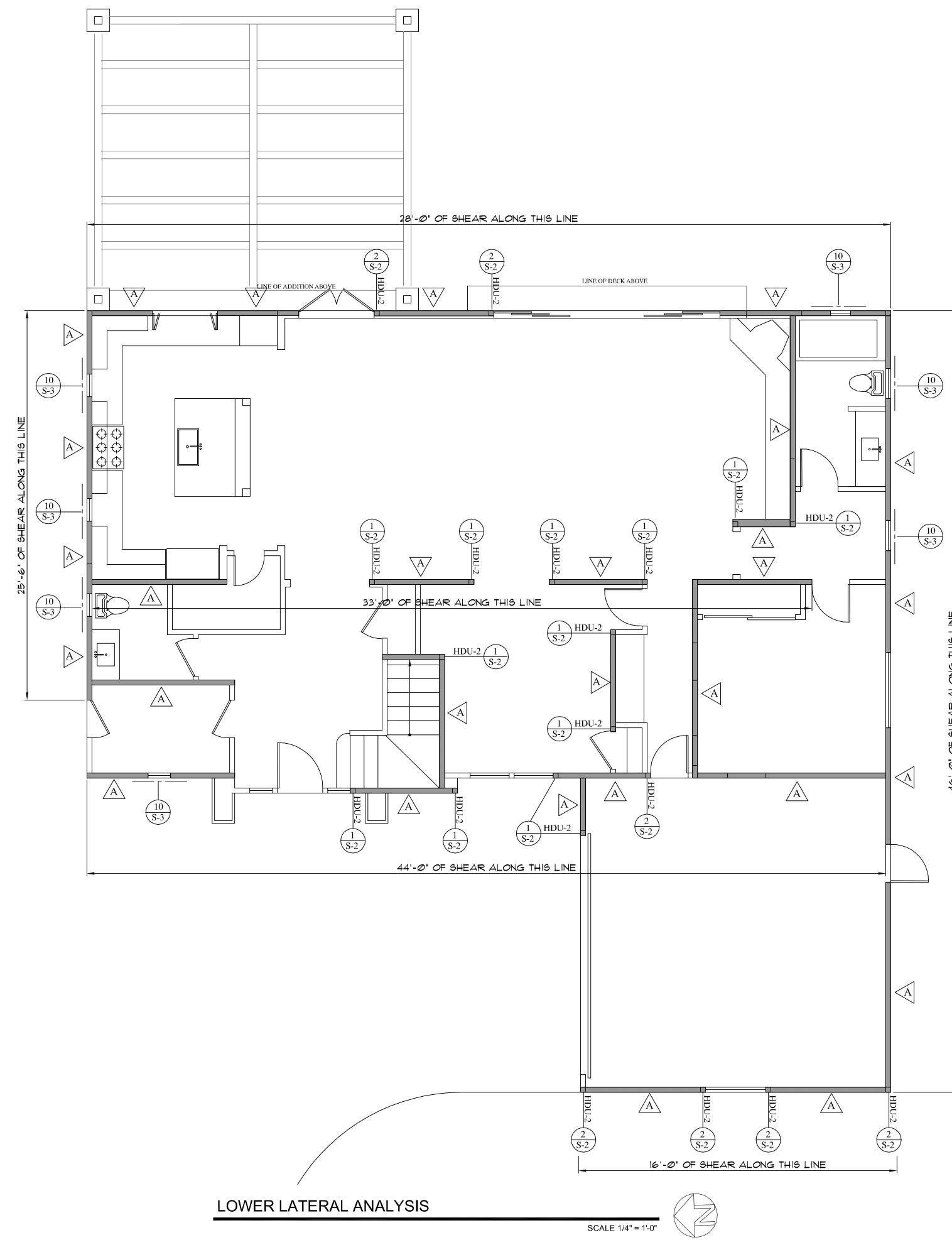
CONCRETE COVER: Conform to the Following Cover Requirements From ACI 318-14:

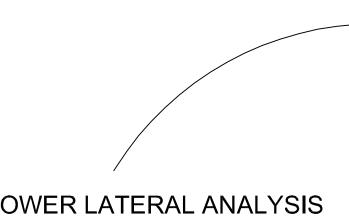
• •	
Concrete Cast Against Earth	. 3"
Concrete Exposed to Earth or Weather	2''
Ties in Columns and Beams	1 1/2"
Bars in Slabs and Walls	.3/4"
Exterior Bars in Tilt-Up Panels	

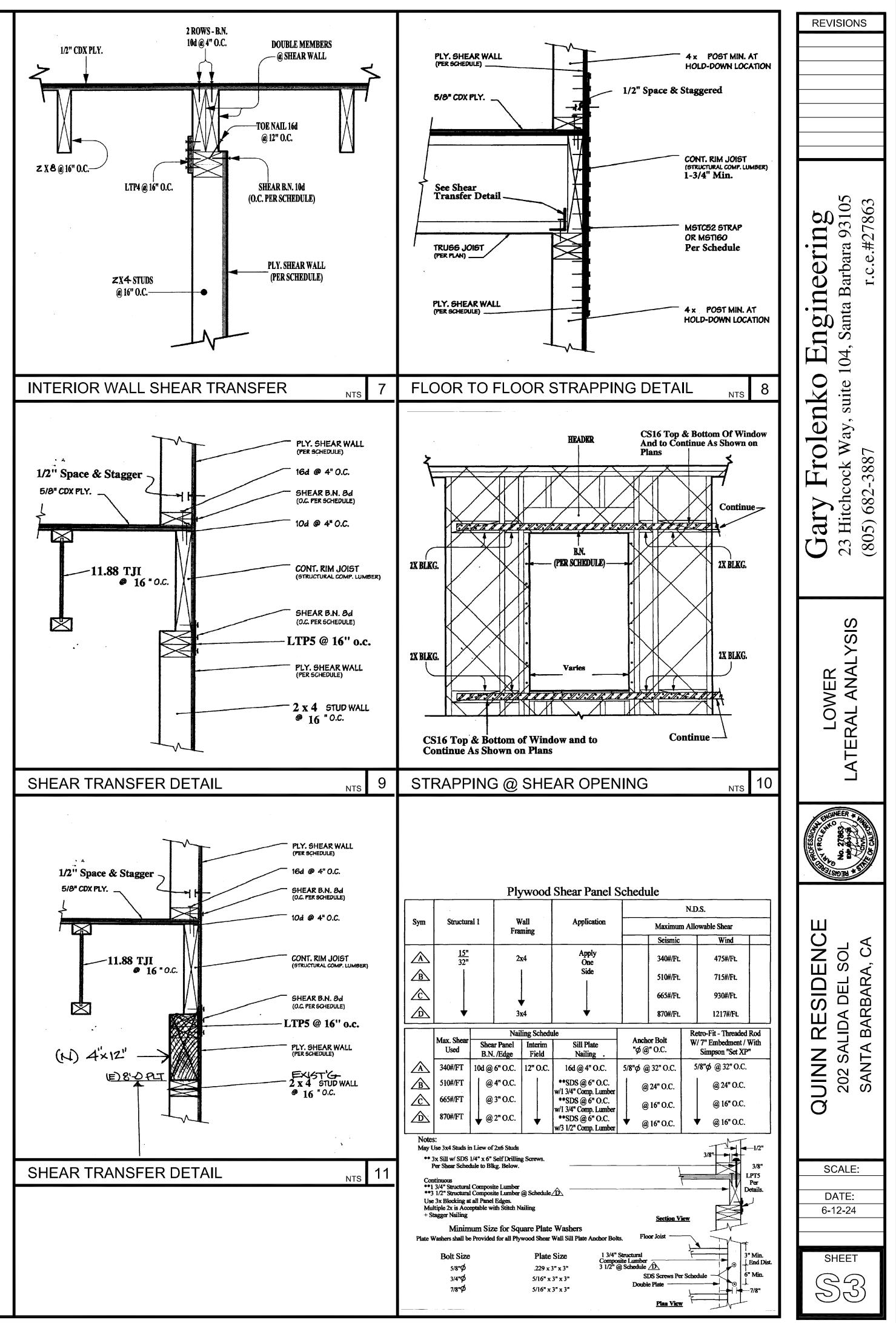
×	Timber & Lumber	Timbon & Lymphon (Com
C Table 1808.8.1	1. Material Specifications: (Use UNO-Table Below Governs) DOC. PS20	<u>Timber & Lumber (Con</u>
M-615. Deformed	Dimension Lumber Douglas Fir-Larch, No. 1 S4S, (Studs, Joists, Rafters & Ledgers)	 Lap Splice All Double Top Plates At the Top of All Walls V Splice. Provide (8) 16d Nails Each Side of Each Splice.
of Adjacent 318-19	Timbers ————————————————————————————————————	7. Provide Doubled Framing Members, Same Size as Adjacent Partitions Parallel to Joists or Rafters.
	Other Dimension Lumber – Douglas Fir-Larch, No. 2 S4S, (2 x 4 Studs, Stripping, Blocking & Etc.) PlywoodDouglas Fir, Structural 1, DOC PS2 (Interior Type, Exterior Glue) Grade C-D, 5 Ply Minimun	 All Holes For Bolts Shall Be 1/16" Larger Diameter Than the Washers For All Bolts Thru Wood Members.
Fabric and Placed	Minimum Sheet Size 2 Ft. x 4 Ft. APA Rated Sheathing May Also Be Used See Framing Sheets for Specific Call Outs.	 Anchor Non-Structural Walls With 1/2" Diameter Anchor B Out Below Slab to Provide 3" Minimum Coverage. Place Below
red in Position	Nails Common Bolts and Threaded Rod ASTM A307	Center. Use Powder Driven Pins @ 32" On Center as an Alt Anchorage. Powder Driven Pins Shall Extend 1" Minimum
with 12 in.	2. Sill Plates on Concrete: 3" Nominal Thick (4" @ V>350 PLF) With ACZA Pressure	10. For Minimum Nailing, Refer to the Nailing Schedule In The
Engineer is	Treatment. Bolt to Concrete With 5/8" Diameter x 12" Long Anchor Bolts (7" Minimum Embedment) At 4' 0" Maximum Spacing Center to Center. See Sections & Details for Specific Information Regarding the Spacing. Place First Bolt 9" From End of Sill Plate. This Does Not Apply to Holdown Bolts. All Washers for	 Machine Applied Nailing is Acceptable, But Satisfactory Pe Be Demonstrated During Installation. Acceptance is Subject Satisfactory Performance.
	Anchor Bolts are Simpson BP 5/8" Washers Square Cut, 3" x 3" x 0.229". Sill Pl. 4" @ Nail Sp. 4" or Closer. Anchor Bolts & Fasteners Into Green Seal Pressure Treated Plates Shall Be Hot Dipped Galvanized or Stainless Steel.	 2 x 6 T&G Decking May Be Used. Decking is 4 Span Minim Nailed to the Supports with (2) 16d Nails. Butt Splice the De Supports.
Not to Exc ee d	3. Where Stud Walls Frame to Concrete or Concrete Block Walls, Anchor the End Stud to the Wall 12" From the Top and Bottom of the Stud, and Above and Below the Fire Blocking. 4 Bolts Total Are Required. The Bolts Shall Be 5/8" Diameter and Be Embedded 5" Into the Concrete or Concrete Block.	13. Sheet Metal Connectors Are As Manufactured By the Simps Approved Equivalent. Nails Shall Be Those Furnished By th the Specific Use Shown. The Connector Type is Furnished, Insures the Hanger Dimensions Fit the Appropriate Application
	4. Do Not Cut Structural Framing, (Joists, Beams, Studs, Sills or Etc.) For Pipes, Vents, Ducts, Conduit or Other Items Unless Specifically Instructed on the	14. Shear Wall Lengths are Within 10% of Constructed Lenth U
	Construction Documents. Install Horizontal Framing Crown Up.	15. Connector Plates & Hardware May Be Dapped, Rotated & S
. Edge Distance.	5. Place 2 x Solid Blocking Between All Joists and Rafters at All Points of Support and Under All Supported Transverse Partitions. 2 x Solid Blocking, Full Depth,	Final Constructed Condition.
n Corner, a #4 nall Extend 30	Shall Be Placed Between All Joists and Rafters Greater than 8" In Depth as Follows: Roof Rafters - 10' Intervals, Floor Joists - 8' Intervals. Metal Joist Bridging in the Preceeding Locations May Be Used as Required.	16. The Contractor Shall Be Responsible For Installing Wood B That are Free of Emmission of Harmful or Caustic Fumes as Chemical, Moisture or Thermal Processes Associated With Products.
ris." orcement."	SPLICES Conform To ACI 318-19, Refer To "Lap Splice" 48 Bar Dia. Typical Splices. The Splices Indicated On Individual Sheets Control Over the Schedule. Use Class B Splices Unless Noted. Mechanical Connections May Be Used When Approved By the Engineer. FIELD BENDING	<u>Timber & Lumber (Con</u> <u>Plywood Span Index</u> Shall Be 32/16 For Roof, 48/24 For Floors U.N.O. <u>Roof Diaphragms</u> To Be Min. 1/2" CDX Plywood Nailed Wit
	Conform To ACI 318-19, "Field Bending Or Straightening." Bar Sizes #3 Through #5 May Be Field Bent Cold the First Time. Other Bars Require Preheating. Do Not Twist Bars.	8d @ 4" O.C. Boundary 8d @ 6" O.C. Edge (See Arch Plans for Roof Material) 8d @12" O.C. Field.
tion Dimensions	 CORROSION PROTECTION Metal In Contact With Moisture and Treatment Products Shall Be Protected Against Corrosion. Protection Can Be Paint, Galvanization, Or Use Of Stainless Steel, (Not Type 304). 	Floor Diaphragms To Be Min. 5/8" CDX Plywood Nailed With 10d @ 4" O.C. Boundary 10d @ 6" O.C. Edge 10d @ 10" O.C. Field
	3. This Includes, But is Not Limited To: Reinforcing Steel Sheet Metal	17. All 2 x Members That Are Part of the Floor Framing System Sh Grade or Better, Douglas Fir. 85% of Material Shall Have a Mo 15% Or Less. Maximum Moisture Shall Be 19%. Each Piece Sh Indicating Kiln Dried With a Stamp Mark "S-Dry".
Provide ASTM	Fasteners & Nails Nuts, Bolts, Washers, Screws & Lag Bolts Shapes, Plates & Bars 4. Processes Shall Be In Accordance With ASTM 153, ASTM 123, ASTM B695, Or ASTM A653.	 Non-Bearing 2 x 4 Stud Walls, Stripping, Blocking, Backing & Lumber Shall Be No. 2 Grade or Better Douglas Fir, or Standard Fir, S4S.
	PRODUCT GALVANIZING THICKNESS OR AMOUNT	19. All Nails Shall Be Common Size.
" led or Approved	SHAPESA12310 MILS DFTPLATESA12310 MILS DFT	20. Holes in Wood for Bolts Shall Be Drilled 1/16" Larger Than the Bolt.
	BARSA12310 MILS DFTSHEET METAL CONNECTORSA1232 0Z PER SF	21. All Bolts Shall Have Malleable Iron or Plate Washers Under He
	FASTENERSA1232 0Z PER SFNAILSTUMBLEDN/A	Schedule For Sizes.
518 Current Edition.	 5. Factory Coatings of G185, For Sheet Metal Products is Acceptable. 6. The Following Standards Shall Apply: A143 B487 F1789 A767 A780 B6 A384 	22. All Joists Shall Be Solid Blocked at Points of Bearing. Wood Cr Less Than 2 Inches by 3 Inches (2" x 3") Nominal, Metal Cross Strength, or Solid Blocking Shall Be Placed Between Joists Wh Exceeds Eight (8) Feet. The Distance Between Lines of Bridgin
	A90 E367 A47 7. Connector Assemblies Primarily Nuts, Bolts, and Washers Shall Be Shipped Assembled To Ensure Proper Fit.	 Bridging and Bearing Shall Not Exceed Eight (8) Feet. Crossbrid Omitted For Roof and Ceiling Joists Eight Inches (8") and Less 23. Minimum Dimension of Any Plywood Sheet Shall Be 24" and the statement of the statement
	8. Alter Threaded Product Dimension to Ensure Fit After Galvanization.	Be Six (6) Square Feet. 24. Use Double Floor Joists Under Parallel Walls Above.
		Timber & Lumber (Con
		25. Machine Applied Nailing: Satisfactory Installation Shall Be Job and the Acceptance of the Field Representative of the O and/or Structural Engineer Shall be Obtained Before the Use Nails Can Be Approved. Approval is Subject To Continued
		26. All Nails and Timber Connectors Shall Be Galvanized.
		27. Steel Joists Hangers, Fasteners and Other Such Connection I Standard Manufacture, Having a Current ICC Approval, of t By the Drawings. Nails Shall Be Those Furnished By the M Specific Use. Devices Shall Be Galvanized. Simpson Part N Drawings; Equivalent Union Stamping, KC Are Acceptable.
		 28. All Plywood Flooring Shall Be Glued to the Floor Joists. Glueavy Duty Subfloor Adhesive as Manufactured By Contect

		REVISIONS
nt.) With a 4' 0" Minimum	QUINN RES. ADDITION 202 Salida Del Sol - Santa Barbara, CA. Architect/Designer - J. Grant Design	
ent Members, Under All the Bolt. Provide	FRAMING DESIGN All calculations per 2022 CBC, 2021 IBC,ASCE 7-16, NDS 2018, ACI 318-19 15% repeditive member reduction taken where applicable	
Bolts 6" Long, Scoop Bolts At 4' 0" On Alternate Method of	All calculations are for simply supported beams with uniform loads U.N.O. Joists, Rafters and 4 x Beams to be No.1 D.F. or better Fb=1150 PSI Fv=180 PSI E=1.8 M.P.S.I. Other Beams and Stringers Fb=1350 PSI FV=170 PSI E=1.6 M.P.S.I.	
n Into Concrete. he Typical Details. Performance Shall	Micro-Lam Beams, and Parallam Beams to be 28F Stress Fb=2800 P.S.I. Fc=500 P.S.I. Fv=285 P.S.I. E=2.0 M.P.S.I. (minimum values) "Equal or better" product may be substituted for Micro-Lam Beams	Cering trbara 93105 .c.e.#27863
ect to Continued nimum in Length and is Decking At the	ROOF / Composition Shingles 34 PSF TOTAL LOADLoads: Live Load = 20 PSF Framing Dead Load = 10 PSF Roofing Dead Load = 4 PSF	leering Barbara 931(r.c.e.#2786
pson Company or the Manufacturer For i, the Contractor	FLOOR / WoodLoads: Live Load = 40 PSF50 PSF TOTAL LOADFraming Dead Load = 6 PSFFloor Dead Load = 4 PSFFloor Dead Load = 4 PSFDECK / TileLoads: Live Load = 60 PSF	ngin Santa B
uno.	82 PSF TOTAL LOAD Framing Dead Load = 10 PSF Deck Dead Load = 12 PSF	104, 104,
2 Straps Rotated to Fit Building Products as a Result of	FOUNDATION DESIGN Design Foundation per 2021 IBC, 2022 CBC; Table 1806.2 Design soil bearing value = 1000 PSF	lenkc ay, suite
h Those Building		Gary Fro 23 Hitchcock W (805) 682-3887
<u>nt.)</u>	 STEEL SPECIFICATIONS All Steel shall Conform to <u>ASTM A-36</u> and be Fabricated in Accordance with the Specifications of the AISC. 	
/ith	 All Bolts shall Conform to <u>ASTM A-37</u>. Steel Pipe Columns shall be Grade "B" Conforming to <u>ASTM A-53</u>. Structural Steel Work Does Require Shop Painting. Where Steel Column is Embedded in a Masonry or Concrete Wall: Reinforcing Bars shall be Welded 	SPECS
ith	 to the Column to Match the Horizontal Wall Reinforcing. 6. Where a Steel Column Occurs at the Intersection or End of a Wood Stud Wall: 1/2" Threaded Nelson Studs shall be Welded to the Column at 24" O.C. U.N.O. 7. All Welding shall be Done by the Shielded Arc Method. All Welders shall be Properly Qualified. Surplus Metal shall be Dressed Off to Smooth-Even Surfaces Where Welds are Exposed to View. 	RAL SF
Shall Be Kiln Dried, #2 foisture Content of Shall Be Grade Marked	 8. Use Low Hydrogen Electrodes for Welding Reinforcing Steel. 9. Drypack Under Base Plates shall be Mixed in Proportions of 1 Part Portland Cement to 2-1/2 Parts Sand. Minimum Dimensions per Drawings. 	UCTU
& Other Non-Structural ard or Better Douglas	 All Field Welding of Structural Steel shall be Performed Under <u>Continuous Inspection</u> by an Inspector Representing a Testing Laboratory and Paid by Owner. Steel Fabricator shall Follow Guidelines Presented by FEMA-267, Section 8.2 and Quality Assurance per FEMA- Chapter 9.2.7 	STRU
he Nominal Size of the	 12. At the Cut Edge of the Reduced Section, the Beam Flange should be Ground Parallel to the Flange to a Mirror Finish (Surface Roughness<1000 per ANSI B46,1) 12. The State Flange is a probability of the Flange is a flange of the Flange is a flange in the Flange in the Flange is a flange in the Flange in	
Head & Nuts. See Washer Crossbridging, Not	 The Steel Fabricator is to Prepare a Project Welding Procedure Specification (WPS) per AWS D1.1, Chapter 5 for Review by the Inspector. Weld Filler Materials are to Have a Rated Toughness, Recommended at 20 Ft-Lbs. Absorbed Energy at - 20 Degree F per Charpy V-Notch Test. 	
ssbridging of Equal here the Joist Span ing or Between bridging May Be	 Pre-Heat and Interpass Temperatures are to be Strictly Observed per AWS D1.1, Chapter 4.2 and Verified by the Project Inspector. Weld Dams are Prohibited, and Back-Up Bars, if Used, Should Be Removed, the Weld Back-Gouged, 	, cA
ss Depth. I the Minimum Area Shall	and Reinforced With a Fillet Weld. 17. All Complete Penetration Welds shall be Examined/Inspected for Their Full Length.	N RESIDENCE SALIDA DEL SOL ITA BARBARA, CA
<u>nt.)</u>		UIN 202 SAN
Be Demonstrated On the OSA and the Architect Jse of Machine-Applied d Satisfactory Performance.		Ø
n Devices Shall Be of f the Types Required		SCALE:
Manufacturer For This Numbers are Shown on le. Glue Shall Be PL400		DATE: 6-12-24
eck Co.		SHEET
		51

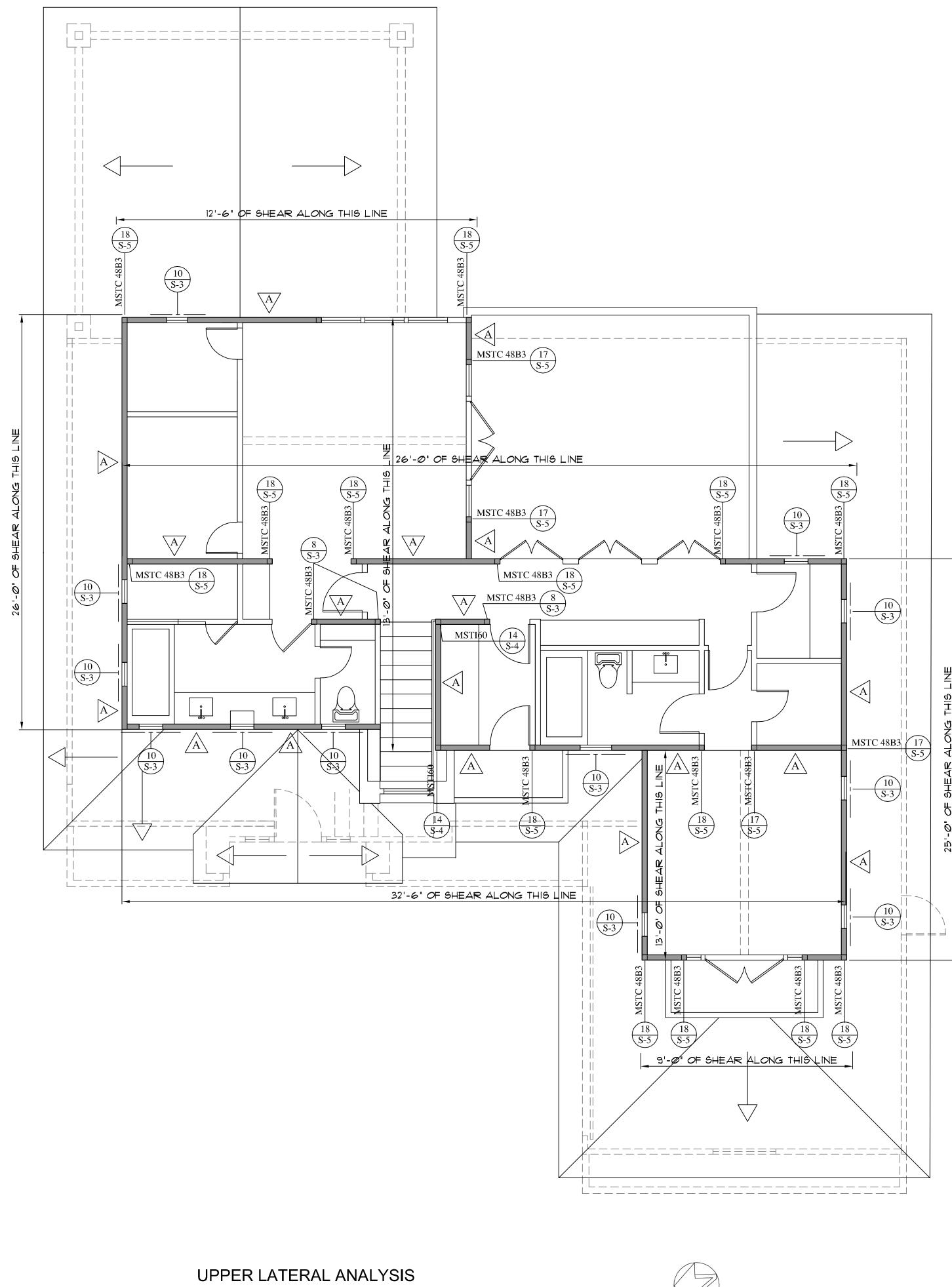




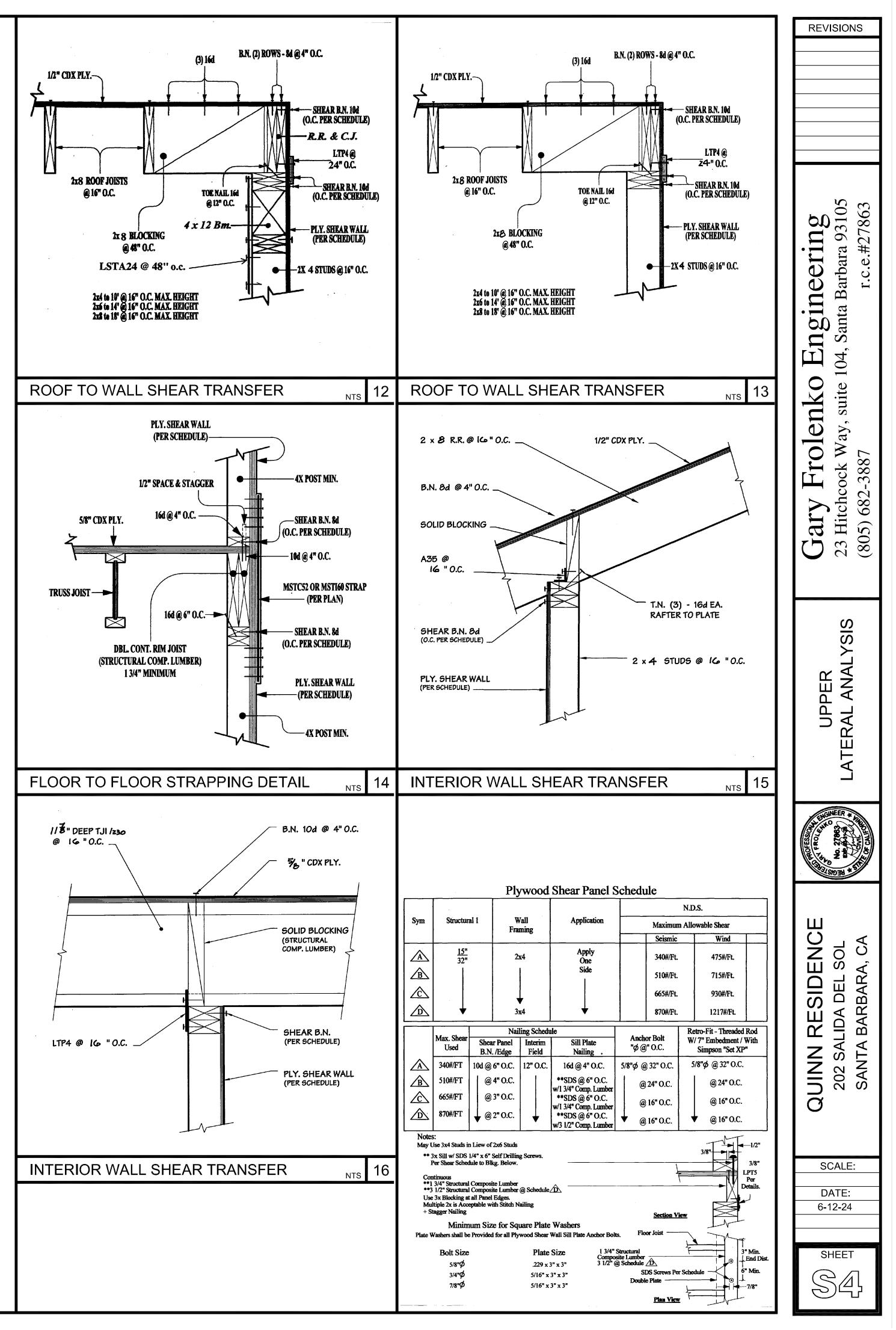


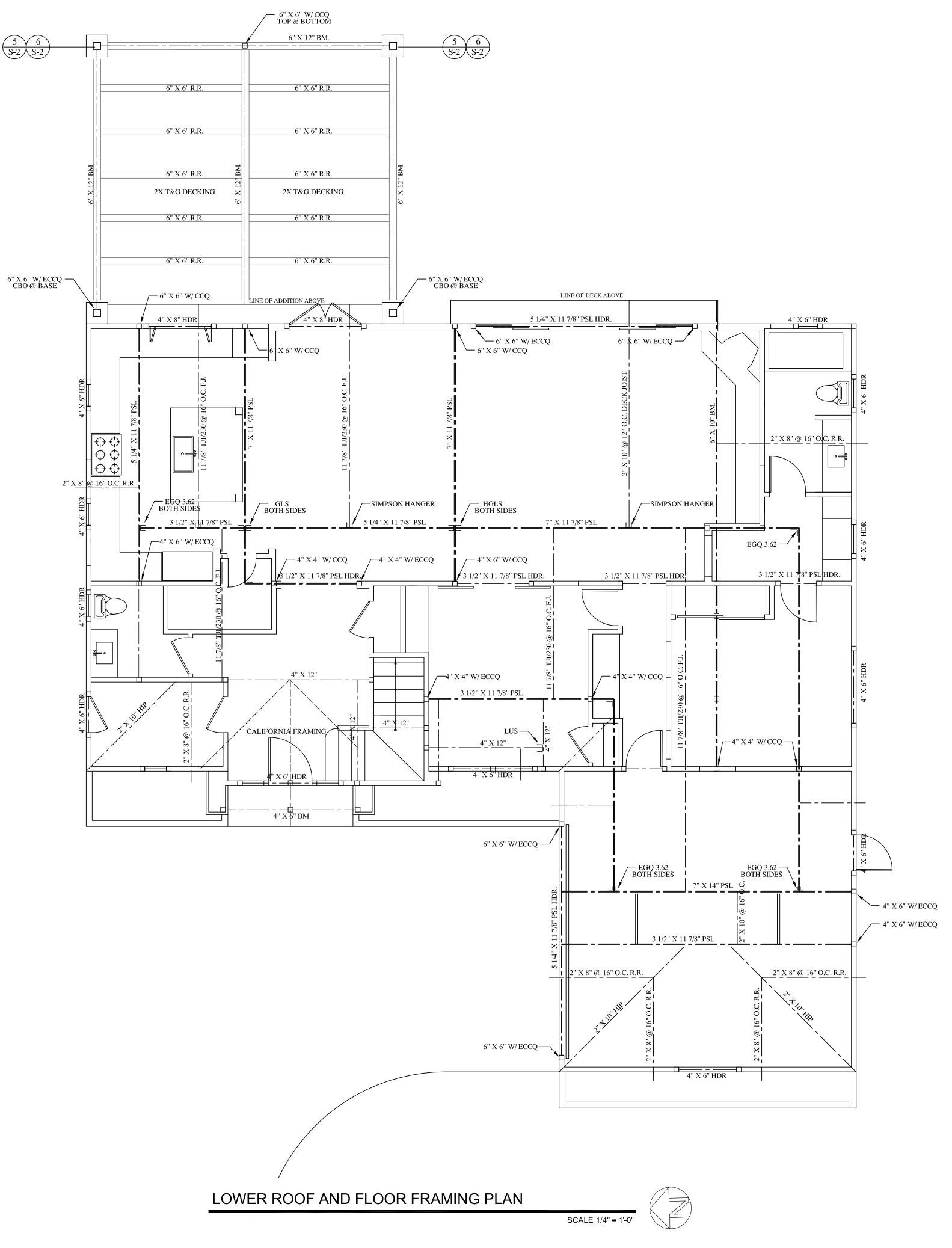


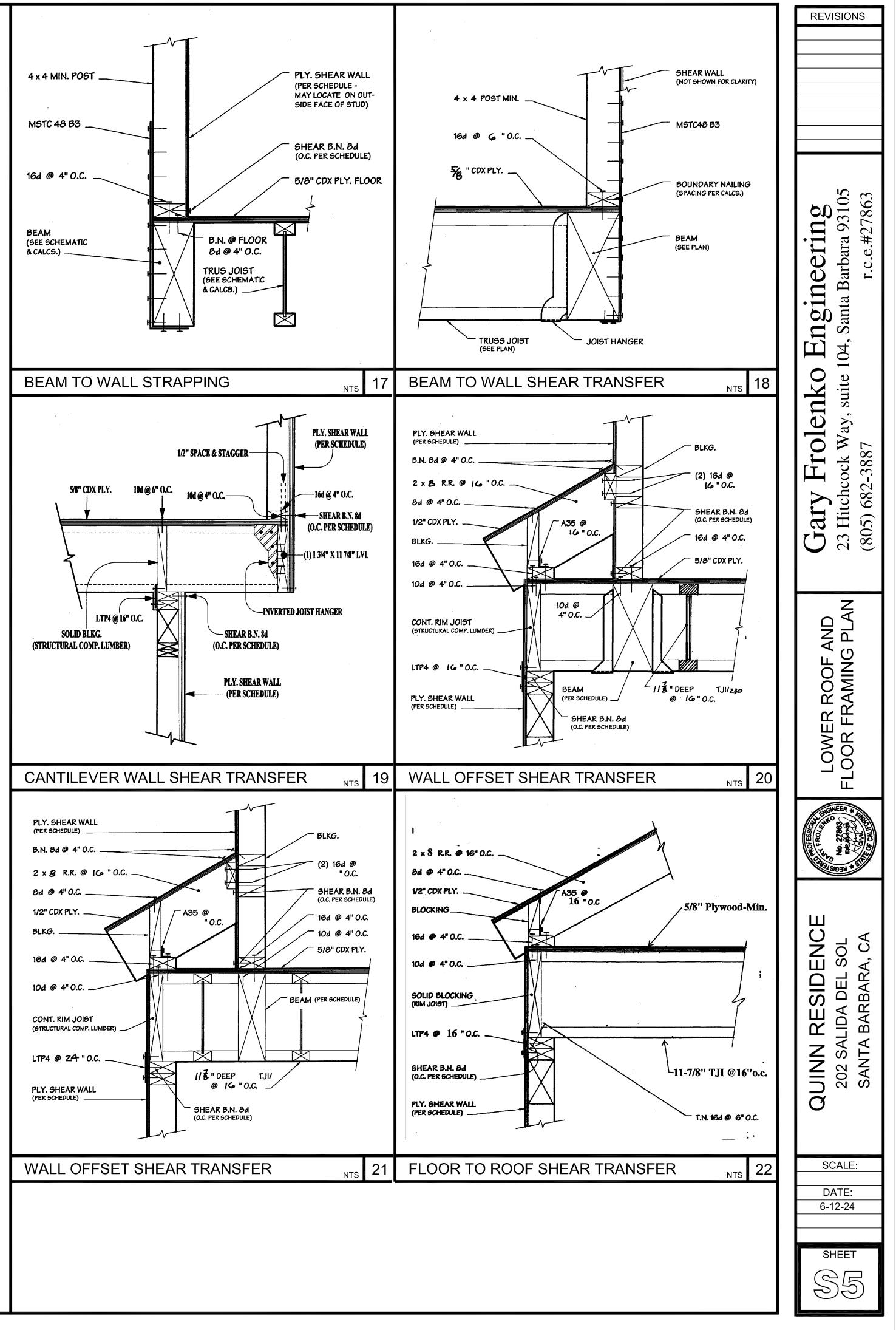
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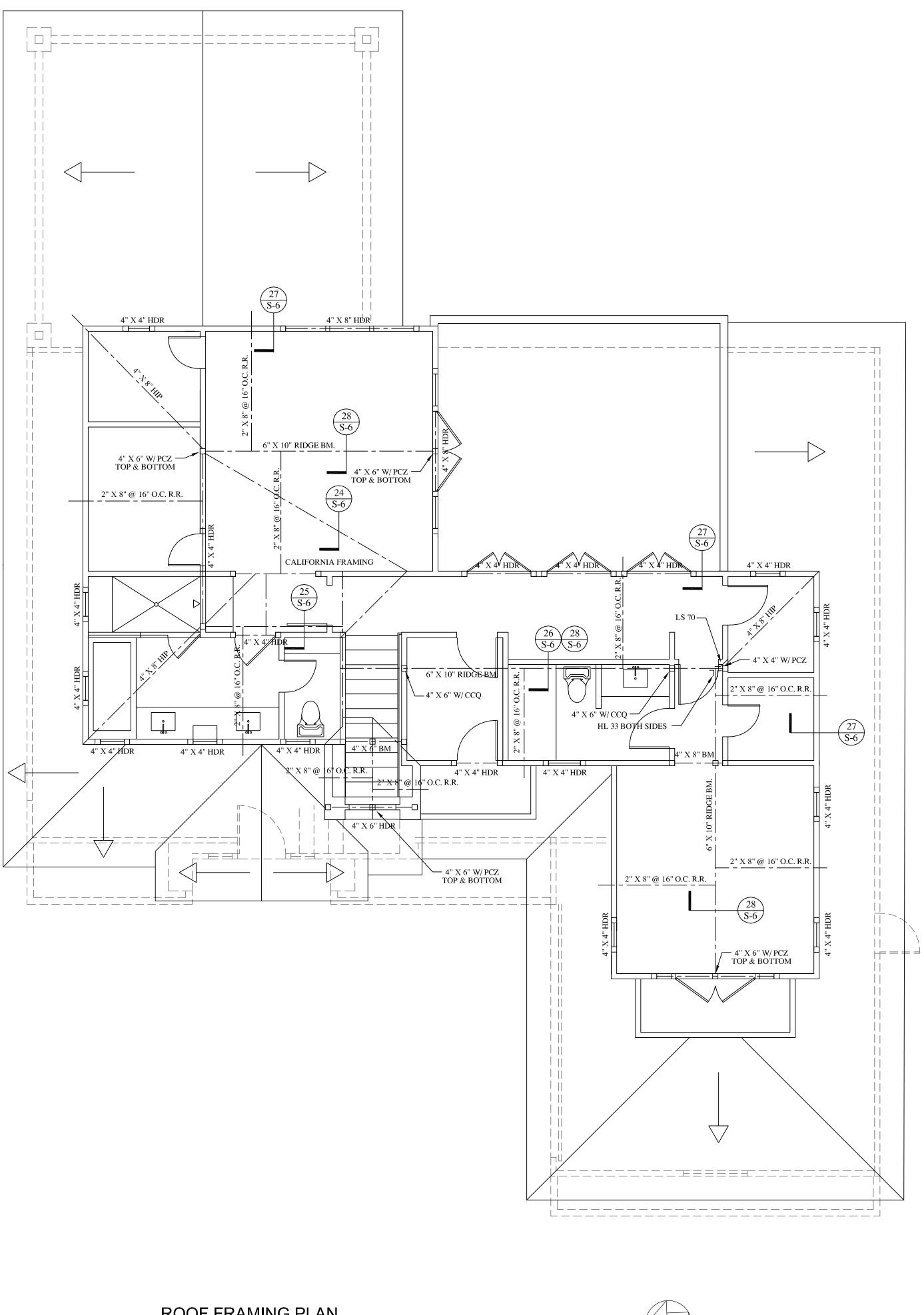


SCALE 1/4" = 1'-0"



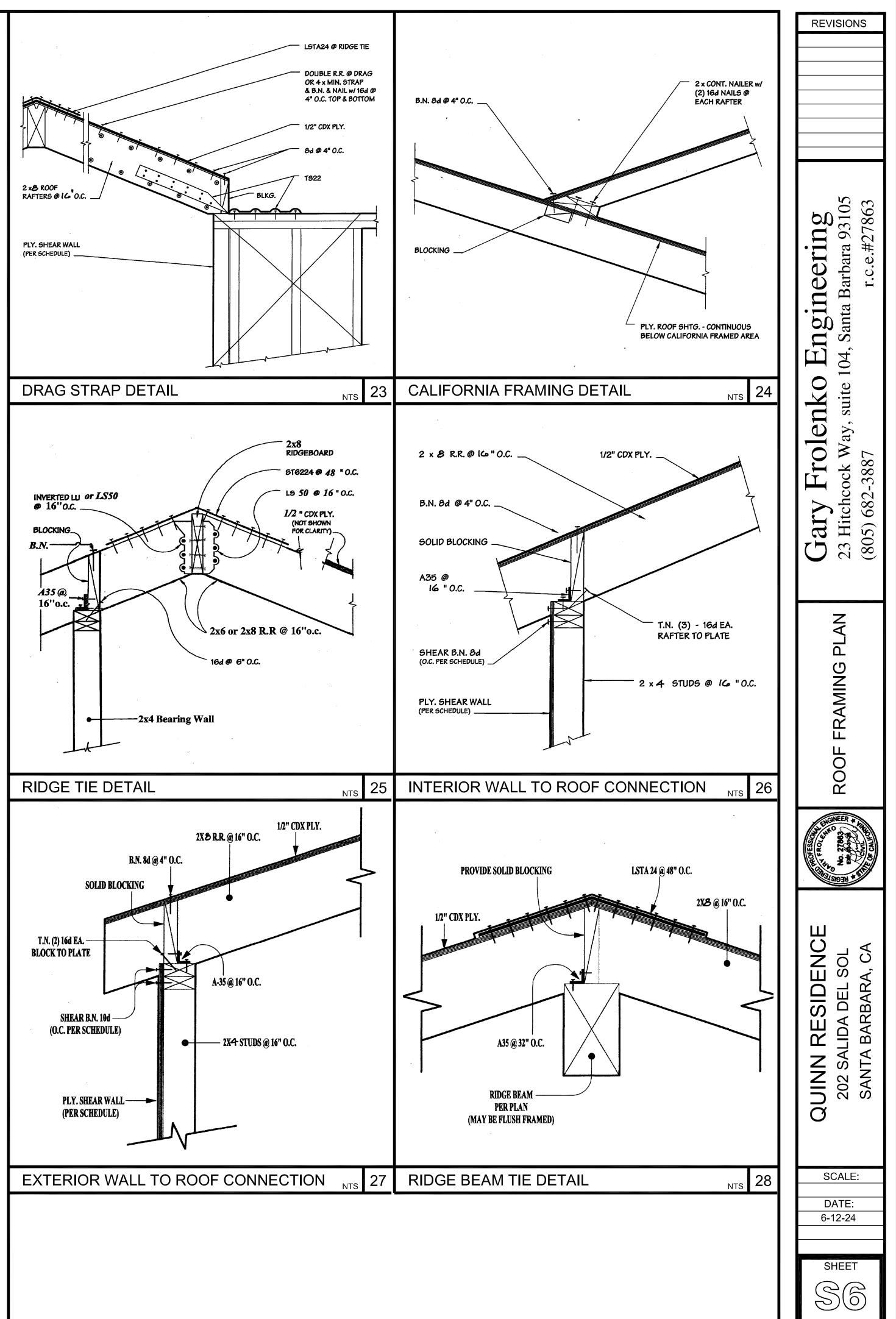






SCALE 1/4" = 1'-0"

ROOF FRAMING PLAN







COMMUNITY DEVELOPMENT DEPARTMENT 630 GARDEN ST. SANTA BARBARA, CA 93101

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FINAL APPROVAL CHECKLIST SUPPLEMENTAL APPLICATION





WHAT IS FINAL APPROVAL?

Final approval is the last level of design review before applying for a Building Permit (BLD) application. Final approval generally occurs at a separate hearing, after project design approval, and includes a complete set of working drawings with all details, color samples, door hardware, and exterior lighting fixtures for review. Applicants may also request project design approval and final approval on the same hearing date, if sufficient details are provided.

HOW DOES THE PROCESS WORK?

Once a project receives project design approval, it shall constitute the substantive design approval of the project. If substantial changes to the plans are proposed after project design approval, a new project design approval will be required. Design review comments on final approval should only address whether the design substantially conforms to the project design approval, and comments on details and landscaping.

WHEN IS A COMPLETED CHECKLIST REQUIRED?

A completed **Final Approval Submittal Checklist** is required when you submit for final approval. To resubmit an application, upload documents, like plans and letters, into the record in the City's Accela Citizen Access Portal (ACA) system, along with the <u>Resubmittal Form</u>. All forms must be completed, signed, and submitted as a PDF attachment to your electronic submittal.

I) FINAL APPROVAL CHECKLIST

Provide required details and sheet references with your submittal for final approval. Fill in the blank or indicate N/A if "not applicable". Final approval does not permit the omission of any required information.

PROJECT ADDRESS:	PLN RECORD ID:
PRUJEUTADDRESS:	

ALL	BUILDING ELEVATIONS	Sheet #			Sheet #
	Exterior Details			Paint or Stain Color (trim, etc.)	
	Exterior Finishes			Materials (roofing, plaster, etc.)	
	Parapet Heights			Exterior Lighting (incl. cut sheets)	
	Roof/Attic/Understory Vents			Specification Sheets, as applicable	
CON	ISTRUCTION DETAILS	Sheet #			Sheet #
	Retaining Wall			Ironwork	
	Window/Door detail			Stairs	
	Roof Details (eaves)			Handrails	
	Decks			Skylights	
	Fences/Arbors/Trellis			Awnings	
	Trash/Recycling Enclosures			Gutters and Down Spouts	
ELE	CTRICAL/MECHANICAL/PLUMB	ING EQUIPI	MENT		Sheet #
	Transformer Vault				
	Utility Service Meter				
	Screening Elements				
	Generators/Electrical/Mechanical/HVAC (including cut sheets & dBA at property lines)				
	Fire Valves (Verify Fire Sprinkler Ordinance per SBMC §8.04 requirements)				
	Cross Connection Control Devices (backflow device)				
CONSULTANT/ENGINEER SHEETS Sheet # State S			Sheet #		
	Electrical			Structural	
	Mechanical			Plumbing	

ROOFTOP ARCHITECTURAL DETAILS			
	HVAC Equipment (exhaust fans, condensing units, air conditioning units, etc.)		
	Dimensions of equipment and screening		
	Mission tile roofing installation specifications		
	Specification Sheets, if applicable		
	Parapet Height		
	Screens		
	Chimney Caps		
	Flashing		
	Gutters/ Scuppers		
	Solar panel location or potential future solar panel installation (if applicable)		
	High fire roof coverings, valleys, gutters		
COLOR AND MATERIAL BOARDS Sheet			

COLOR AND MATERIAL BOARDS

Paint and Stain Color Names and Numbers

Material Type, Brand and Inventory Number

LANDSCAPE PLAN

Irrigation Plan		High Fire/Defensible Space	
Plant Species/Number/Sizes		Water Conservation Standards	
Planters, Pots, Furniture		Site Walls (materials and color)	
Paving Materials		Backflow Device	
Erosion Control Measures		Rooftop Garden/Landscaped Roof	

Sheet #

Storm Water Management Program (SWMP) Sheet # Location of filtration devices Cross-section details Drainage flow from all impervious areas Amounts of new, replaced, or removed impervious areas

Hydrology/Storm Water Report

Sheet #