## PROJECT DATA

DESCRIPTION REMODEL OF EXISTING ONE STORY

RESIDENCE. ADDITION OF 1550 SQFT TO BE TO BE LOCATED AT ENTRY AND AT LIVING ROOM. REMODEL EXISTING KITCHEN AND UPDATE OF FINISHES THROUGHOUT. REPLACE ALL WINDOWS.

**ADDRESS** 

1970 HAYES LANE SAN MARTIN , CA 95046

779-44-12

R-1-0 ZONING

**BUILDING USE** 

SINGLE FAMILY RESIDENTIAL

SEPTIC SEPTIC/SEWER

## PLANNING DATA AND CALCULATIONS

7648 SQFT

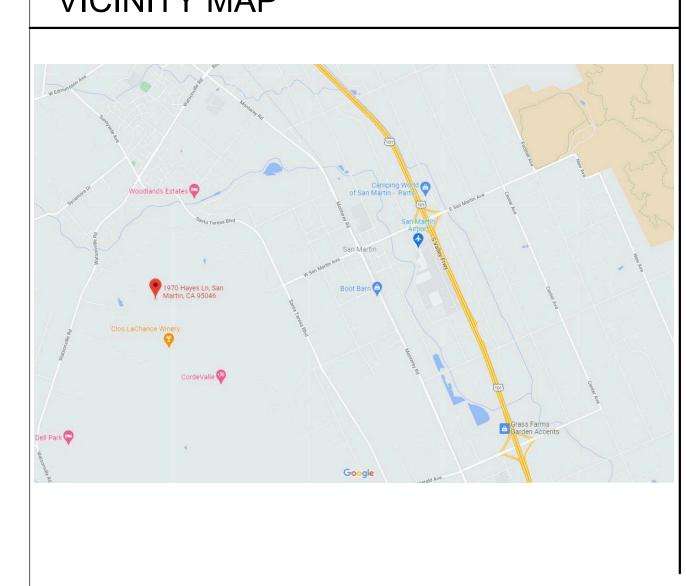
LOT SIZE 20 ACRES/ 871,200 SQFT

6098 SQFT EXISTING BUILDING SQFT 1550 SQFT PROPOSED ADDITION

TOTAL FAR SQFT

MAX HEIGHT OF HOUSE 28'-0

# **VICINITY MAP**





		OFMEDAL MOTEO
SHEET INDEX	APPLICABLE CODES	GENERAL NOTES
GENERAL A0.0 COVER SHEET A0.1 GENERAL NOTES & CAL GREEN NOTES A0.2 GREEN BUILDING NOTES A0.3 GREEN BUILDING NOTES 2 A0.4 MECHANICAL SPECIFICATIONS AND NOTES  ARCHITECTURAL A1.0 PROPOSED SITE PLAN A2.1 EXISTING SITE PLAN A2.2 EXISTING FLOOR PLAN A3.0 ROOF PLAN A4.0 PROPOSED FLOOR PLAN AND ADDITION A5.0 EXTERIOR ELEVATIONS A6.0 EXTERIOR ELEVATIONS A7.0 SECTIONS A8.0 SECTIONS A10.0 WINDOW AND DOOR SCHEDULE A10.0 B WINDOW AND DOOR SCHEDULE  MEP1.0 MECHANICAL, ELECTRICAL, PLUMBING  CIVIL C1.0 EROSION CONTROL PLAN STRUCTURAL S-1 STRUCTURAL NOTES S-2 STRUCTURAL DETAILS S-3 STRUCTURAL DETAILS S-3 STRUCTURAL DETAILS S-4 DECK FRAMING PLAN AND DETAILS S-5 SUBFLOOR-FRAMING AND FOUNDATION PLANS.	APPLICABLE CODES  2019 CA BUILDING CODE  2019 CA MECHANICAL CODE  2019 CA ELECTRICAL CODE  2019 CA PLUMBING CODE  2019 GREEN BUILDING CODE  2019 CA ENERGY CODE  2019 CA FIRE CODE	The Contractor shall furnish all material, labor, scaffolding, utensils, and apparatus required for the work shown on these plans and pay for the full frieghtage cartage, taxes and handling of material associated with the work.  All work shaall comply and conform to all codes and regulations, including the 2019 CBC 2019 CMC, 2019 CPC, 2019 CPC, 2019 CPC, California Energy requirements, and all local, state and federal requirements, codes and regulations, unless otehrwise noted.  Contractor shall be solely responsible for job and worksite saftey.  All work is to be perfirmed in accordance with these plans and specifications and to the satisfaction of the owner.  Bidders shall visit the site and familiarize themselves with all existing conditions, and be prepared to carry out the work within the existing limitations.  Verify all dimensions in the field, written dimensions have precedence over scaled dimensions. Any discrepencies between drawings and/or specifications and actual conditions shall be brought to the attention of the architect/ designer for immediate clarification prior to proceeding with the work.  Change orders shall be in writing.  Substitutions will be considered, but do not substitute materials, equipment, or methods without specific advanced approval by the architect.  Contractor shall notify the architect/designer of all modifications to drawing by the buildir department and of all changes requested by the inspector.  Follow manufacturer's instructions carefully. Manufacturer's operating instructions amd guarentess shall be given to the owner at the end of the job.  All features of construction not fullu shown shall be of the same type and character as the shown for similar conditions. For special conditions or discrepensicies, notify the architect/desinger before bidding or proceeding with work.  All material shall be of the best of their respective kinds, new, and subject to the approve of the owner. All work is to be performed in the best manner by skilled workmen.

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**COVER SHEET** 

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A0.0 Scale 3/16" = 1'-0"

## **GENERAL NOTES**

THE CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR, SCAFFOLDING, UTENSILS, AND APPARATUS REQUIRED FOR THE WORK SHOWN ON THESE PLANS AND PAY FOR THE FULL FRIEGHTAGE CARTAGE, TAXES, AND HANDLING OF MATERIAL ASSOCIATED WITH THE WORK.

ALL WORK SHALL COMPLY AND CONFORM TO ALL CODES AND REGULATIONS, INCLUDING THE 2019 CBC, 2019 CMC, 2019 CPC, 2019 CEC, 2019 CRC, CALIFORNIA ENERGY REQUIREMENTS, AND ALL LOCAL, STATE AND FEDERAL REQUIREMENTS, CODES AND REGULATIONS. UNLESS OTEHRWISE NOTED.

CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB AND WORKSITE SAFTEY.

ALL WORK IS TO BE PERFRMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND TO THE SATISFACTION OF THE OWNER.

BIDDERS SHALL VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH ALL EXISTING CONDITIONS, AND BE PREPARED TO CARRY OUT THE WORK WITHIN THE EXISTING LIMITATIONS.

VERIFY ALL DIMENSIONS IN THE FIELD, WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALED DIMENSIONS. ANY DISCREPENCIES BETWEEN DRAWINGS AND/OR SPECIFICATIONS AND ACTUAL CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ DESIGNER FOR IMMEDIATE CLARIFICATION PRIOR TO PROCEEDING WIH THE WORK.

#### CHANGE ORDERS SHALL BE IN WRITING

SUBSTITUTIONS WILL BE CONSIDERED, BUT DO NOT SUBSTITUTE MATERIALS, EQUIPMENT, OR METHODS WITHOUT SPECIFIC ADVANCED APPROVAL BY THE ARCHITECT.

CONTRACTOR SHALL NOTIFY THE ARCHITECT/DESIGNER OF ALL MODIFICATIONS TO DRAWING BY THE BUILDING DEPARTMENT AND OF ALL CHANGES REQUESTED BY THE INSPECTOR.

FOLLOW MANUFACTURER'S INSTRUCTIONS CAREFULLY.
MANUFACTURER'S OPERATING INSTRUCTIONS AMD GUARENTESS
SHALL BE GIVEN TO THE OWNER AT THE END OF THE JOB.

ALL FEATURES OF CONSTRUCTION NOT FULLU SHOWN SHALL BE OF THE SAME TYPE AND CHARACTER AS THAT SHOWN FOR SIMILAR CONDITIONS. FOR SPECIAL CONDITIONS OR DISCREPENSCIES, NOTIFY THE ARCHITECT/DESINGER BEFORE BIDDING OR PROCEEDING WITH WORK.

ALL MATERIAL SHALL BE OF THE BEST OF THEIR RESPECTIVE KINDS, NEW, AND SUBJECT TO THE APPROVAL OF THE OWNER. ALL WORK IS TO BE PERFORMED IN THE BEST MANNER BY SKILLED WORKMEN.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND SUBCONTRACTORS TO NOTIFY THE ARCHITECT/DESIGNER AND/OR ENGINEER OF ANY DISCREPENCIES, INCONSISTENCIESM ERRORS OR OMISSIONS IN THE PLANS AND SPECIFICATIONS WHICH MIGHT AFFECT THE WORK, PRIOR TO PROCEEDING WITH THE WORK.

#### **MECHANICAL NOTES:**

- 1. DUCTS SIZE REQUIREMENTS SHALL COMPLY WITH MANUFACTURER'S DESIGN CRITERIA FOR AIR FLOW RATING.
- 2. FOR INTERMITTENT LOCAL EXHAUST, THE MINIMUM BATHROOM INTERMITTENT VENTILATION AIRFLOW SHALL BE 50 CFM AND FOR KITCHEN HOOD EXHAUST SHALL BE 100 CFM PER ASHRAE 62.2-2007 SECTION 4.6.4.
  3. CONTINUOUSLY OPERATING LOCAL EXHAUST BATHROOM FANS SHALL PROVIDE 5 AIR CHANGES PER HOUR MINIMUM, PER ASHRAE 62.2-2007 SECTION 4.6.4.
- 4. VENTILATION FAN SOUND RATINGS SHALL BE LESS THAN 1 SONE FOR CONTINUOUS FANS, OR 3 SONE FOR INTERMITTENT FANS UNLESS THEIR MAX. RATED AIRFLOW EXCEEDS 400 CFM.
- 5. BATHROOM EXHAUST FANS SHALL BE ENERGY STAR COMPLIANT AND BE DUCTED TO TERMINATE OUTSIDE THE BUILDING. CGBC SECTION 4.506.
  6. ALL EXHAUST FANS SHALL BE SWITCHED SEPARATELY FROM LIGHTING
- 7. UNLESS PART OF THE WHOLE HOUSE VENTILATION SYSTEM, FANS MUST BE CONTROLLED BY A HUMIDITY CONTROL CAPABLE OF ADJUSTMENT BETWEEN A RELATIVE HUMIDITY RANGE OF 50%-80% AND READILY ACCESSIBLE.
- 8. DESIGN AND INSTALL HVAC SYSTEM TO ACCA MANUAL J, D, AND S RECOMMENDATIONS, INCLUDING TESTING TOTAL SUPPLY AIR FLOW RATES AND THIRD PARTY TESTING OF MECHANICAL VENTILATION RATES.

  9. SUPPLY AND RETURN AIR REGISTERS MUST BE LOCATED ACCORDING TO CBGSC AND CMC 2019.
- 10. PROVIDE 30IN MINIMUM IN DEPTH, WIDTH, AND HEIGHT OF WORKING SPACE IN FRONT OF EQUIPMENT AND APPLIANCES.

### GENERAL PLUMBING NOTES

#### SCOPE

- DOMESTIC HOT AND COLD WATER SYSTEMS.
   FUEL GAS PIPING.
- INSTALLATION OF ALL NEW PLUMBING FIXTURES.
   COMPLETE WASTE AND VENT PIPING SYSTEM.

#### CONDITIONS

- 1. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VISIT THE PROJECT SITE AND ACQUAINT HIMSELF WITH ALL EXISTING CONDITIONS, AS WELL AS ASCERTAIN THE EXTENT OF THE WORK INVOLVED. BY SUBMITTING A BID, THE CONTRACTOR SHALL BE DEEMED TO HAVE MADE SUCH AN EXAMINATION, TO HAVE ACCEPTED SUCH CONDITIONS AND TO HAVE MADE ALL NECESSARY ALLOWANCES IN PREPARING HIS PROPOSAL.
- ALL WORK AND MATERIALS SHALL COMPLY WITH GOVERNING CODES, SAFETY ORDERS AND REGULATIONS.
   PLUMBING CONTRACTOR SHALL DELIVER TO THE OWNER AND GENERAL CONTRACTOR A WRITTEN ONE YEAR GUARANTEE ON ALL WORKMANSHIP, EQUIPMENT AND MATERIALS; REPAIR OR REPLACE ANY SUCH DEFECTIVE ITEMS DURING THIS PERIOD.

#### UTILITIES AND SITE WORK:

1. PRIOR TO COMMENCING WORK, PLUMBING CONTRACTOR SHALL CONSULT REPRESENTATIVES OF LOCAL UTILITIES CONCERNING LOCATIONS AND AVAILABILITY OF UTILITIES. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITY LINES. 2. PLUMBING CONTRACTOR SHALL REROUTE ANY EXISTING UTILITY LINES IN CONFLICT WITH NEW CONSTRUCTION. 3. PLUMBING CONTRACTOR SHALL CONFIRM LOCATIONS AND ELEVATIONS OF ALL EXISTING NEW AND REROUTED MAINS AND METERS ON JOB RECORD DRAWINGS.

#### **BATHROOM NOTES**

- 1. TUB/SHOWER GLASS ENCLOSURES ALL DOORS AND PANELS OF SHOWER AND BATHTUB ENCLOSURES SHALL BE FULLY TEMPERED, LAMINATED SAFETY GLASS OR APPROVED PLASTIC PER CBC SECTION 2406.3.
- 2. TUB/SHOWER WALLS TUB/SHOWER WALLS MUST BE A SMOOTH, HARD, NONABSORBENT SURFACE (E.G., CERAMIC TILE OR FIBERGLASS) OVER A MOISTURE-RESISTANT UNDERLAYMENT (E.G DENS SHIELD) TO A HEIGHT OF 72" ABOVE DRAIN INLET PER CRC R307.2).
- 3. VENTILATION ALL BATHROOMS CONTAINING BATHTUBS AND SHOWERS MUST BE MECHANICALLY VENTILATED PER CBC 1203.4.2/1.
- 4. SHOWER SIZE ALL SHOWERS MUST HAVE MIN. INTERIOR FLOOR AREA OF 1,204 SQ. IN. AND CAPABLE OF ENCOMPASSING 30" CIRCLE AND IT SHALL BE MAINTAINED UP TO 70" ABOVE SHOWER DRAIN INLET.
- 5. SHOWER DOORS MUST OPEN AT LEAST A MIN. OF 22" FOR AN UNOBSTRUCTED EGRESS OPENING PER CPC 411.6.
- 6. SHOWER AND TUB-SHOWER COMIBNATIONS SHALL BE PROVIDED WITH INDIVIDUAL CONTROL VALVES OF THE PRESSURE BALANCE OR THE THERMOSTATIC MIXING VALVE TYPE PER CPC SECITON 418.0.
- 7. ALL LIGHTING IN BATHROOM SHALL BE HIGH EFFICACY OR CONTROLLED BY OCCUPANCY/MOTION SENSORS
- 8. GLAZING IN SHOWERS OR BATHTUB ADACENT WALL OPENINGS WHERE THE BOTTOM OF GLAZING IS LESS THAN 60 INCHES ABOVE A STANDING SURFACE SHALL BE FULLY TEMPERED, LAMINATED SAFETY GLASS OR APPROVED PLASTIC. PER CRC SECTION 4308.4.5.

### DRAIN/ WASTE / VENT NOTES

- 1. ALL WASTE PIPING BELOW 1ST FLOOR SHALL BE SCHEDULE 40 ABS.
- 2. ALL WASTE PIPING SERVING 2ND FLOOR FIXTURES SHALL BE NO-HUB CAST-IRON. (NOTE: P-TRAP AND TRAP-ARM SHALL BE CAST-IRON. NOTE: TRANSITIONS FROM ABS TO NO-HUB PIPING FOR UPSTAIRS BATHS SHALL BE BENEATH FLOOR AT 1ST FLOOR AND TRANSITIONS BACK TO ABS SHALL BE ABOVE 2ND FLOOR PLATE LINE.)

#### 3. ALL VENT PIPING SHALL BE SCHEDULE 40 ABS.

- 4. VENTS SHALL BE COMBINED TO MINIMIZE ROOF PENETRATION WHERE POSSIBLE. CONFIRM ROOF PENETRATION LOCATIONS WITH GENERAL CONTRACTOR/OWNER PRIOR TO INSTALLING.
- 5. CLEANOUTS SHALL BE INSTALLED AT UPPER TERMINALS OF ALL HORIZONTAL WASTE RUNS AS PER UPC.
- 6. PLUMBER SHALL PROVIDE WASTE FOR SOFTENER LOCATION.
- 7. PROVIDE APPROVED AIR GAP FITTING ON THE DISCHARGE SIDE OF THE DISHWASHING MACHINE(S) WHN DIRECTLY CONNECTED TO A DRAINAGE SYSTEM OR FOOD DISPOSER.

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STEVE AND GWEN DORCICH

GENERAL NOTES & GREEN NOTES

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Scale

RESPON. PARTY CHAPTER 3	Y N/A RESPON. PARTY	Y N/A RESPON. PARTY	Y N/A RESPON. PARTY	
GREEN BUILDING SECTION 301 GENERAL		DIVISION 4.2 MATER EFFICIENCY AND CONCERVATION	DIVISION 4.4 MATERIAL CONSERVATION AND RESOURCE	
<b>301.1 SCOPE.</b> 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	4.106.4.2.1.1 Electric Vehicle Charging Stations (EVCS) When EV chargers are installed, EV spaces required by Section 4.106.2.2, Item 3, shall comply with at least one of the following options:	DIVISION 4.3 WATER EFFICIENCY AND CONSERVATION 4.303 INDOOR WATER USE	EFFICIENCY	<u> </u>
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.	The EV space shall be located adjacent to an accessible parking space meeting the requirements of the California Building Code, Chapter 11A, to allow use of the EV charger from the accessible parking space.  The EV space shall be located an an accessible route as defined in the California Building.	4.303.1 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the sections 4.303.1.1, 4.303.1.2, 4.303.1.3, and 4.303.4.4.	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	T.Vess Int
<b>301.1.1 Additions and alterations. [HCD]</b> 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.	The EV space shall be located on an accessible route, as defined in the California Building Code, Chapter 2, to the building.      Exception: Electric vehicle charging stations designed and constructed in compliance with the California Building Code, Chapter 11B, are not required to comply with Section 4.106.4.2.1.1 and	Note: All noncompliant plumbing fixtures in any residential real property shall be replaced 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	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	1 00 m
Note: On and after January 1, 2014, residential buildings undergoing permitted alterations, additions, or 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	Section 4.106.4.2.2, Item 3.  Note: Electric Vehicle charging stations serving public housing are required to comply with the California Building Code, Chapter 11B.	buildings affected and other important enactment dates.  4.303.1.1 Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-type Toilets.	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.	www.tvessinteri
other important enactment dates.	4.106.4.2.2 Electric vehicle charging space (EV space) dimensions. The EV space shall be designed to comply with the following:	Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume	Exceptions:  1. Excavated soil and land-clearing debris.	
<b>301.2 LOW-RISE AND HIGH-RISE RESIDENTIAL BUILDINGS. [HCD]</b> 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.	<ol> <li>The minimum length of each EV space shall be 18 feet (5486 mm).</li> <li>The minimum width of each EV space shall be 9 feet (2743 mm).</li> <li>One in every 25 EV spaces, but not less than one EV space, shall have an 8-foot (2438 mm) wide minimum aisle. A 5-foot (1524 mm) wide minimum aisle shall be permitted provided the minimum width of the EV space is 12 feet (3658 mm).</li> </ol>	of two reduced flushes and one full flush.  4.303.1.2 Urinals. The effective flush volume of wall mounted urinals shall not exceed 0.125 gallons per flush. The effective flush volume of all other urinals shall not exceed 0.5 gallons per flush.  4.303.1.3 Showerheads.	<ol> <li>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.</li> <li>The enforcing agency may make exceptions to the requirements of this section when isolated jobsites are located in areas beyond the haul boundaries of the diversion facility.</li> </ol>	
SECTION 302 MIXED OCCUPANCY BUILDINGS	a. Surface slope for this EV space and the aisle shall not exceed 1 unit vertical in 48 units horizontal (2.083 percent slope) in any direction.	4.303.1.3 Showerheads.  4.303.1.3.1 Single Showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.	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.	
<b>302.1 MIXED OCCUPANCY BUILDINGS.</b> In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy.	4.106.4.2.3 Single EV space required. Install a listed raceway capable of accommodating a 208/240-volt dedicated branch circuit. The raceway shall not be less than trade size 1 (nominal 1-inch inside	4.303.1.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by	<ol> <li>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.</li> <li>Specify if construction and demolition waste materials will be sorted on-site (source separated) or</li> </ol>	
ABBREVIATION DEFINITIONS: HCD Department of Housing and Community Development	diameter). The raceway shall originate at the main service or subpanel and shall terminate into a listed cabinet, box or enclosure in close proximity to the proposed location of the EV space. Construction documents shall identify the raceway termination point. The service panel and/or subpanel shall provide	a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to only allow one shower outlet to be in operation at a time.	bulk mixed (single stream).  3. Identify diversion facilities where the construction and demolition waste material collected will be	
BSC California Building Standards Commission DSA-SS Division of the State Architect, Structural Safety OSHPD Office of Statewide Health Planning and Development	capacity to install a 40-ampere minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overcurrent protective device.	Note: A hand-held shower shall be considered a showerhead.	taken. 4. Identify construction methods employed to reduce the amount of construction and demolition waste generated.	Design Addres Phone e-mail
LR Low Rise HR High Rise	4.106.4.2.4 Multiple EV spaces required. Construction documents shall indicate the raceway termination point and proposed location of future EV spaces and EV chargers. Construction documents	4.303.1.4 Faucets.  4.303.1.4 Pacidential Lavatory Faucets. The maximum flow rate of residential lavatory faucets shall	5. Specify that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.	
AA Additions and Alterations N New	shall also provide information on amperage of future EVSE, raceway method(s), wiring schematics and electrical load calculations to verify that the electrical panel service capacity and electrical system, including any on-site distribution transformer(s), have sufficient capacity to simultaneously charge all EVs at all required EV spaces at the full rated amperage of the EVSE. Plan design shall be based upon a	<ul> <li>4.303.1.4.1 Residential Lavatory Faucets. The maximum flow rate of residential lavatory faucets shall not exceed 1.2 gallons per minute at 60 psi. The minimum flow rate of residential lavatory faucets shall not be less than 0.8 gallons per minute at 20 psi.</li> <li>4.303.1.4.2 Lavatory Faucets in Common and Public Use Areas. The maximum flow rate of lavatory</li> </ul>	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.	
CHAPTER 4 RESIDENTIAL MANDATORY MEASURES	40-ampere minimum branch circuit. Required raceways and related components that are planned to be installed underground, enclosed, inaccessible or in concealed areas and spaces shall be installed at the time of original construction.	faucets installed in common and public use areas (outside of dwellings or sleeping units) in residential buildings shall not exceed 0.5 gallons per minute at 60 psi.	Note: The owner or contractor may make the determination if the construction and demolition waste materials will be diverted by a waste management company.	
DIVISION 4.1 PLANNING AND DESIGN	4.106.4.2.5 Identification. The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging purposes as "EV CAPABLE" in accordance with the California Floatrical Code.	<b>4.303.1.4.3 Metering Faucets.</b> Metering faucets when installed in residential buildings shall not deliver more than 0.2 gallons per cycle.	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 4.102 DEFINITIONS 4.102.1 DEFINITIONS The following terms are defined in Chapter 2 (and are included here for reference)	with the California Electrical Code.	4.303.1.4.4 Kitchen Faucets. The maximum flow rate of kitchen faucets shall not exceed 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per	Section 4.408.1  4.408.4.1 WASTE STREAM REDUCTION ALTERNATIVE. Projects that generate a total combined	
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.	4.106.4.3 New hotels and motels. All newly constructed hotels and motels shall provide EV spaces capable of supporting future installation of EVSE. The construction documents shall identify the location of the EV spaces.	minute at 60 psi.  Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.	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	Consulta Address Address Phone Fax e-mail
<b>WATTLES.</b> 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.	Notes:  1. Construction documents are intended to demonstrate the project's capability and capacity	4.303.2 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures and fittings shall be installed in accordance with the California Plumbing Code, and shall meet the applicable standards referenced in Table	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	
4.106 SITE DEVELOPMENT 4.106.1 GENERAL. Preservation and use of available natural resources shall be accomplished through evaluation	or facilitating future EV charging.  2. There is no requirement for EV spaces to be constructed or available until EV chargers are installed for use.	1701.1 of the California Plumbing Code.	Notes:  1. Sample forms found in "A Guide to the California Green Building Standards Code	
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.  4.106.2 STORM WATER DRAINAGE AND RETENTION DURING CONSTRUCTION. Projects which disturb less	4.106.4.3.1 Number of required EV spaces. The number of required EV spaces shall be based on the total number of parking spaces provided for all types of parking facilities in accordance with Table 4.106.4.3.1. Calculations for the required number of EV spaces shall be rounded up to the	NOTE: THIS TABLE COMPILES THE DATA IN SECTION 4.303.1, AND IS INCLUDED AS A CONVENIENCE FOR THE USER.	(Residential)" located at www.hcd.ca.gov/CALGreen.html may be used to assist in documenting compliance with this section.  2. Mixed construction and demolition debris (C & D) processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).	
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	nearest whole number.  TABLE 4.106.4.3.1	TABLE - MAXIMUM FIXTURE WATER USE	4.410 BUILDING MAINTENANCE AND OPERATION 4.410 OPERATION AND MAINTENANCE MANUAL. At the time of final inspection, a manual, compact	
property, prevent erosion and retain soil runoff on the site.  1. Retention basins of sufficient size shall be utilized to retain storm water on the site.	TOTAL NUMBER OF PARKING NUMBER OF REQUIRED EV SPACES SPACES	FIXTURE TYPE FLOW RATE  SHOWER HEADS (RESIDENTIAL)  1.8 GMP @ 80 PSI	disc, web-based reference or other media acceptable to the enforcing agency which includes all of the following shall be placed in the building:	
<ol> <li>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.</li> </ol>	0-9 0	LAVATORY FAUCETS MAX. 1.2 GPM @ 60 PSI (RESIDENTIAL) MIN. 0.8 GPM @ 20 PSI	<ol> <li>Directions to the owner or occupant that the manual shall remain with the building throughout the life cycle of the structure.</li> <li>Operation and maintenance instructions for the following:</li> </ol>	sultant ess ess ne
Compliance with a lawfully enacted storm water management ordinance.  Note: Refer to the State Water Resources Control Board for projects which disturb one acre or more of soil, or	10-25	LAVATORY FAUCETS IN COMMON & PUBLIC USE AREAS  O.5 GPM @ 60 PSI	a. 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.	Consulta Address Address Phone Fax e-mail
are part of a larger common plan of development which in total disturbs one acre or more of soil.  (Website: https://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.html)	26-50 2	KITCHEN FAUCETS 1.8 GPM @ 60 PSI	<ul><li>b. Roof and yard drainage, including gutters and downspouts.</li><li>c. Space conditioning systems, including condensers and air filters.</li></ul>	COM
4.106.3 GRADING AND PAVING. Construction plans shall indicate how the site grading or drainage system will	51-75 4	METERING FAUCETS 0.2 GAL/CYCLE  WATER CLOSET 1.28 GAL/FLUSH	d. Landscape irrigation systems. e. Water reuse systems. 3. Information from local utility, water and waste recovery providers on methods to further reduce	15008 RIORS
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:	76-100 5 101-150 7	URINALS 0.125 GAL/FLUSH	resource consumption, including recycle programs and locations. 4. Public transportation and/or carpool options available in the area. 5. Educational material on the positive impacts of an interior relative humidity between 30-60 percent	VESS 1377 14, CA 9 16, SSINTEI
<ol> <li>Swales</li> <li>Water collection and disposal systems</li> <li>French drains</li> </ol>	151-200 10 201 and over 6 percent of total	4 204 OUTDOOD WATER USE	<ul> <li>and what methods an occupant may use to maintain the relative humidity level in that range.</li> <li>Information about water-conserving landscape and irrigation design and controllers which conserve water.</li> </ul>	E×H88
4. Water retention gardens 5. Other water measures which keep surface water away from buildings and aid in groundwater recharge.	4.106.4.3.2 Electric vehicle charging space (EV space) dimensions. The EV spaces shall be designed to	4.304 OUTDOOR WATER USE  4.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Residential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water	7. Instructions for maintaining gutters and downspouts and the importance of diverting water at least 5 feet away from the foundation.  8. Information on required routine maintenance measures, including, but not limited to, caulking,	THANH 7 P.O. BO3 CAMPBE 408.813. TV@TVE
Exception: Additions and alterations not altering the drainage path.	comply with the following:  1. The minimum length of each EV space shall be 18 feet (5486mm).	Efficient Landscape Ordinance (MWELO), whichever is more stringent.  NOTES:	painting, grading around the building, etc.  9. Information about state solar energy and incentive programs available.	Consultant Address Address Phone Fax e-mail
4.106.4 Electric vehicle (EV) charging for new construction. New construction shall comply with Sections 4.106.4.1, 4.106.4.2, or 4.106.4.3 to facilitate future installation and use of EV chargers. Electric vehicle supply	2. The minimum width of each EV space shall be 9 feet (2743mm)	The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code Regulations,     Title 23, Chapter 2.7, Division 2. MWELO and supporting documents, including water budget calculator, are	10. A copy of all special inspections verifications required by the enforcing agency or this code.  4.410.2 RECYCLING BY OCCUPANTS. Where 5 or more multifamily dwelling units are constructed on a	Con Addr Addr Phor Fax
equipment (EVSE) shall be installed in accordance with the California Electrical Code, Article 625.  Exceptions:	4.106.4.3.3 Single EV space required. When a single EV space is required, the EV space shall be designed in accordance with Section 4.106.4.2.3.	available at: https://www.water.ca.gov/	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	
<ol> <li>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:</li> <li>1.1 Where there is no commercial power supply.</li> </ol>	<b>4.106.4.3.4 Multiple EV spaces required.</b> When multiple EV spaces are required, the EV spaces shall be designed in accordance with Section 4.106.4.2.4.		ordinance, if more restrictive.  Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code Section	VEN VEN
1.2 Where there is evidence substantiating that meeting the requirements will alter the local utility infrastructure design requirements on the utility side of the meter so as to increase the utility side cost to the homeowner or the developer by more than \$400.00 per	<b>4.106.4.3.5 Identification.</b> The service panels or sub-panels shall be identified in accordance with Section 4.106.4.2.5.		42649.82 (a)(2)(A) et seq. are note required to comply with the organic waste portion of this section.	
dwelling unit.  2. Accessory Dwelling Units (ADU) and Junior Accessory Dwelling Units (JADU) without additional parking facilities.	4.106.4.3.6 Accessible EV spaces. In addition to the requirements in Section 4.106.4.3, EV spaces for hotels/motels and all EVSE, when installed, shall comply with the accessibility provisions for the EV charging stations in the California Building Code, Chapter 11B.			VE AN DORC
4.106.4.1 New one- and two-family dwellings and townhouses with attached private garages. For each			DIVISION 4.5 ENVIRONMENTAL QUALITY	STE\
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	DIVISION 4.2 ENERGY EFFICIENCY 4.201 GENERAL		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,	
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 minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overcurrent	4.201 GENERAL 4.201.1 SCOPE. For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory standards.		irritating and/or harmful to the comfort and well being of a building's installers, occupants and neighbors.  SECTION 4.502 DEFINITIONS	GREEN
protective device.  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			5.102.1 DEFINITIONS The following terms are defined in Chapter 2 (and are included here for reference)	BUILDIN NOTES
location shall be permanently and visibly marked as "EV CAPABLE".			AGRIFIBER PRODUCTS. Agrifiber products include wheatboard, strawboard, panel substrates and door cores, not including furniture, fixtures and equipment (FF&E) not considered base building elements.	
parking spaces on a building site, provided for all types of parking facilities, shall be electric vehicle charging spaces (EV spaces) capable of supporting future EVSE. Calculations for the required number of EV spaces shall be rounded up to the nearest whole number.			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.	
<ul> <li>Notes:</li> <li>1. Construction documents are intended to demonstrate the project's capability and capacity for facilitating future EV charging.</li> <li>2. There is no requirement for EV spaces to be constructed or available until EV chargers are installed</li> </ul>			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.	Date
for use.  4.106.4.2.1 Electric vehicle charging space (EV space) locations. Construction documents shall indicate the location of proposed EV spaces. Where common use parking is provided at least one EV space				
shall be located in the common use parking area and shall be available for use by all residents.				A0.2
				Scale

A RESPON. PARTY	Y N/A RESPON. PARTY	Y N/A RESPON.	Y N/A RESPON.	
MAXIMUM INCREMENTAL REACTIVITY (MIR), The maximum change in weight of come formed by adding a compound so the "Base Reactive Organic das (ROC) Mixture" per veeight of compound added, expressed to hundredthe of a grain in GP3 (ROC). Note (Mix Values for invidual compounds and hydrocarbon solvents are specified in CCR, Tide 17, Sections 94700, Mixture (Will Values for invidual compounds and hydrocarbon solvents are specified in CCR, Tide 17, Sections 94700, Mixture (Powner). The weight of the water in wood expressed in percentage of the weight of the over-dry wood. PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted MIR for all ingredents in a product paging to the arrival of the mixture of the PWMIR is the blood product reactivity ourpressed to hundredthe of a grain of core formed per grain of product (excluding container and packaging).  Note PWMIR is a couldated according to equations found in CCR, Title 17, Section 94521 (a).  REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to construct the compound of the product reactivity of the contribution of the cont	TABLE 4.504.2 - SEALANT VOC LIMIT	TABLE 4.504.5 - FORMALDEHYDE LIMITS:  MAXMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION PRODUCT  HARDWOOD PLYWOOD VENEER CORE  0.05  HARDWOOD PLYWOOD COMPOSITE CORE  0.05  PARTICLE BOADRD  0.09  MEDIUM DENSITY FIBERBOARD  1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALF. ARE RESOURCES SOARD ARE LOXICS CONTROL WITH ASTALL FAIR TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALF. ARE RESOURCES SOARD ARE LOXICS CONTROL WITH ASTALL FAIR TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALF. ARE RESOURCES SOARD ARE LOXICS CONTROL WITH ASTALL FAIR TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALF. ARE RESOURCES SOARD ARE LOXICS CONTROL WITH ASTALL FAIR TABLE ARE THOSE SOARD ARE LOXICS CONTROL WITH ASTALL FAIR TABLE ARE THOSE SOARD ARE LOXICS CONTROL WITH ASTALL FAIR TABLE ARE THOSE SOARD ARE LOXICS CONTROL WITH ASTALL FAIR TABLE ARE THOSE SOARD ARE LOXICS CONTROL WITH ASTALL FAIR TABLE ARE THOSE SOARD ARE LOXICS CONTROL WITH ASTALL FAIR TABLE ARE THOSE SOARD ARE LOXICS CONTROL WITH ASTALL FAIR TABLE ARE THOSE SOARD ARE LOXICS CONTROL WITH ASTALL FAIR TABLE ARE THOSE SOARD ARE LOXICS CONTROL WITH ASTALL FAIR TABLE ARE THOSE SOARD ARE LOXICS CONTROL WITH ASTALL FAIR TABLE ARE THOSE SOARD ARE LOXICS CONTROL WITH ASTALL FAIR TABLE ARE THOSE SOARD ARE LOXICS CONTROL WITH ASTALL FAIR TABLE ARE THOSE SOARD ARE LOXICS CONTROL WITH ASTALL FAIR TABLE ARE THOSE SOARD ARE LOXICS CONTROL WITH ASTALL FAIR TABLE ARE LOXICS CONTROL WITH ASTALL FAIR THOSE SOARD ARE LOXICS CONTROL WITH ASTALL FAIR TABLE ARE LOXICS CONTROL WITH ASTALL FAIR THOSE CONTROL WITH ASTALL FAIR TABLE ARE LOXICS CONTROL WITH ASTAL	CHAPTER 7 INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS 702. QUALIFICATIONS 702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper mediation of info/O system installers of info/O system or contractor installer of info/O system or contractor installer or sale or installer or sale or installer or sale or installer o	Consultant Address Address Address Address Phone Fax e-mail
Regulations, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8, Rule 49.  4.504.2.4 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:  1. Manufacturer's product specification. 2. Field verification of on-site product containers.  TABLE 4.504.1 - ADHESIVE VOC LIMIT <sub>1.2</sub> (Less Water and Less Exempt Compounds in Grams per Liter)  ARCHITECTURAL APPLICATIONS  VOC LIMIT  INDOOR CARPET ADHESIVES  50  CARPET PAD ADHESIVES  50  OUTDOOR CARPET ADHESIVES  150	FAUX FINISHING COATINGS  FIRE RESISTIVE COATINGS  FLOOR COATINGS  FLOOR COATINGS  FORM-RELEASE COMPOUNDS  GRAPHIC ARTS COATINGS (SIGN PAINTS)  HIGH TEMPERATURE COATINGS  INDUSTRIAL MAINTENANCE COATINGS  LOW SOLIDS COATINGS  MAGNESITE CEMENT COATINGS  MASTIC TEXTURE COATINGS  METALLIC PIGMENTED COATINGS  MULTICOLOR COATINGS  350  100  FORM-RELEASE COMPOUNDS  250  HIGH TEMPERATURE COATINGS  420  INDUSTRIAL MAINTENANCE COATINGS  450  MAGNESITE CEMENT COATINGS  100  METALLIC PIGMENTED COATINGS  500  MULTICOLOR COATINGS  250	by the enforcing agency. Documentation shall include at least one of the following:  1. Product certifications and specifications. 2. Chain of custody certifications. 3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.). 4. 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. 5. 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 California Building Standards Code.  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:  1. A 4-inch (101.6 mm) thick base of 1/2 inch (12.7mm) or larger clean aggregate shall be provided with		95008 ERIORS.COM
CERAMIC TILE ADHESIVES   550     VCT & ASPHALT TILE ADHESIVES   50     DRYWALL & PANEL ADHESIVES   50     COVE BASE ADHESIVES   50     MULTIPURPOSE CONSTRUCTION ADHESIVE   70     STRUCTURAL GLAZING ADHESIVES   100     SINGLE-PLY ROOF MEMBRANE ADHESIVES   250     OTHER ADHESIVES NOT LISTED   50     SPECIALTY APPLICATIONS     PVC WELDING   510     CPVC WELDING   490     ABS WELDING   325     PLASTIC CEMENT WELDING   250     ADHESIVE PRIMER FOR PLASTIC   550     CONTACT ADHESIVE   80     SPECIAL PURPOSE CONTACT ADHESIVE   250	ROOF COATINGS 50 RUST PREVENTATIVE COATINGS 250 SHELLACS CLEAR 730 OPAQUE 550 SPECIALTY PRIMERS, SEALERS & 100 UNDERCOATERS STAINS 250 STONE CONSOLIDANTS 450 SWIMMING POOL COATINGS 340 TRAFFIC MARKING COATINGS 100 TUB & TILE REFINISH COATINGS 420 WATERPROOFING MEMBRANES 250 WOOD COATINGS 275 WOOD PRESERVATIVES 350 ZINC-RICH PRIMERS 340	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:      1. 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.      2. 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.      3. 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:  1. Fans shall be ENERGY STAR compliant and be ducted to terminate outside the building.  2. 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.		STEVE AND GWEN Address Address Address Address Phone Fax e-mail
STRUCTURAL WOOD MEMBER ADHESIVE 140  TOP & TRIM ADHESIVE 250  SUBSTRATE SPECIFIC APPLICATIONS  METAL TO METAL 30  PLASTIC FOAMS 50  POROUS MATERIAL (EXCEPT WOOD) 50  WOOD 30  FIBERGLASS 80  1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.  2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.	1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS 2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE. 3. 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.	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 California Energy Code.  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.  2. Duct systems are sized according to ANSI/ACCA 1 Manual D - 2014 (Residential Duct Systems), ASHRAE handbooks or other equivalent design software or methods.  3. Select heating and cooling equipment according to ANSI/ACCA 3 Manual S - 2014 (Residential Equipment Selection), or other equivalent design software or methods.  Exception: Use of alternate design temperatures necessary to ensure the system functions are acceptable.		BUILDING NOTES 2  Date 05.06.2  T.VES  A0.3  Scale

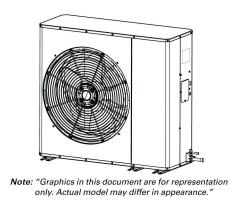


## Side Discharge Variable Speed HP

For coastal applications where units are installed within one (1) mile of salt water, epoxy coated models are recommended. These models have an 8 week lead time after order.

4A6L9048A1000A

**Epoxy Coated Model** 4A6L9048A1COTA



▲ SAFETY WARNING
Only qualified personnel should install and service the equipment. The installation, starting up, and servicing of heating, ventilating, and air-conditioning equipment can be hazardous and requires specific knowledge and training. Improperly installed, adjusted or altered equipment by an unqualified person could result in death or serious injury. When working on the equipment, observe all precautions in the literature and on the tags, stickers, and labels that are attached to the equipment.

4A6L9048A-SUB-1B-EN



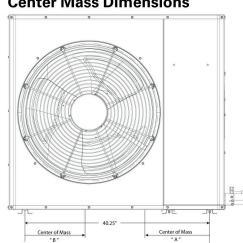
# American Standard. HEATING & AIR CONDITIONING

## **Product Specifications**

OUTDOOR UNIT (a) (b)	4A6L9036A1XXXA
POWER CONNS. — V/PH/HZ (c)	208-230/1/60
MIN. BRCH. CIR. AMPACITY	26.9
BR. CIR. PROT. RTG. — MAX. (AMPS)	30
COMPRESSOR	DURATION®- SCROL
NO. USED — NO. STAGES	1 — Variable
VOLTS/PH/HZ	208-230/1/60
R.L. AMPS (d) — L.R. AMPS	12.4 / 48.9
FACTORY INSTALLED	
START COMPONENTS (e)	NO
INSULATION/SOUND BLANKET	YES
SUMP HEAT	YES
OUTDOOR FAN	PROPELLER
DIA. (IN.) — NO. USED	27.5 — 1
TYPE DRIVE — NO. SPEEDS	DIRECT — VARIABLE
CFM @ 0.0 IN. W.G. (f)	2400
NO. MOTORS — HP	1 — 1/2
MOTOR SPEED R.P.M.	200-1050
VOLTS/PH/HZ	325-385 VDC/3/60
F.L. AMPS	2.3
OUTDOOR COIL — TYPE	PLATE FIN
ROWS — F.P.I.	2-16
FACE AREA (SQ. FT.)	12.88
TUBE SIZE (IN.)	5/16
REFRIGERANT	
LBS. — R-410A (O.D. UNIT) (9)	8 LBS, 0 OZ
FACTORY SUPPLIED	YES
LINE SIZE — IN. O.D. GAS (h)	3/4
LINE SIZE — IN. O.D. LIQ.	3/8
CHARGING SPECIFICATIONS	
SUBCOOLING COOLING MODE	10° F
DIMENSIONS	HXWXD
CRATED (IN.)	42 x 56 x 24
UNCRATED (IN.)	36-3/4 X 47 X 17-1/
WEIGHT	
SHIPPING (LBS.)	250

(a) Certified in accordance with the Air-Source Unitary Air-conditioner Equipment certification program, which is based on AHRI standard 210/240.
(b) Rated in accordance with AHRI standard 275.
(c) Calculated in accordance with Nati. Elec. Codes. Use only HACR circuit breakers or fuses.
(d) This value shown for compressor RLA on the unit nameplate and on this specification sheet is used to compute minimum branch circuit ampacity and max. fuse size. The value shown is the branch circuit selection current.
(e) No means no start components. Yes means quick start kit components. PTC means positive temperature coefficient starter. Optional kit shown.
(f) Standard Air — Dry Coil — Outdoor
(g) This value approximate. For more precise value see unit nameplate.
(h) Reference the outdoor unit ship-with literature for refrigerant piping length and lift guidelines. Reference the refrigerant piping software pub # 32-3312-xx or refrigerant piping application guide SS-APG006-xx for long line sets or specialty applications (xx denotes latest revision).

#### **Center Mass Dimensions**



Model	2 Ton	3 Ton	4/5 Ton
Total Weight	206	228	247
W1 (LB)	135.63	143.03	150.35
Dim "A"	13.75	15.00	15.75
W2 (LB)	70.37	84.97	96.65
Dim "B"	26.50	25.25	24.50
	Total Weight W1 (LB) Dim "A" W2 (LB)	Total Weight 206 W1 (LB) 135.63 Dim "A" 13.75 W2 (LB) 70.37	Total Weight         206         228           W1 (LB)         135.63         143.03           Dim "A"         13.75         15.00           W2 (LB)         70.37         84.97

#### American Standard. HEATING & AIR CONDITIONING

### **Outline Drawing**

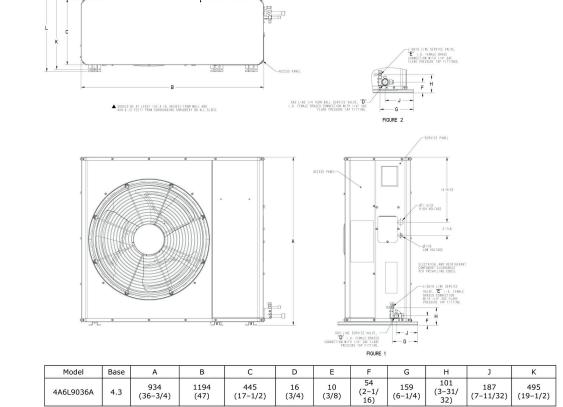


Table SH-3-	C - Platinum 19 R-4	19 R-410A Side Discharge Variable Speed Heat Pump (50-100% capacity)—with AccuLink™ ③						
Model	Dower	Nom. Cap	Uncrated Dimensions(in )	Shipping	Sound** Pating	May	Line Size (in)	

Model	Power	Nom. Cap Cooling		crated nsions	(in.)	Shipping Weight	Sound**	Rating		Max.	Line Si OD	ze (in) OD
Number	Supply	(BTUH)	Н	W	Ď	(lbs.)	(Cool)	(Heat)	MCA*	Fuse*	Gas	Liq.
4A6L9024A1000A①	208/230/1/60	23,800	37	47	18	229	50	49	19.1	25	5/8	3/8
4A6L9036A1000A①	208/230/1/60	36,000	37	47	18	250	48	49	26.9	30	3/4	3/8
4A6L9048A1000A®	208/230/1/60	48,000	43	47	18	269	54	52	31.8	35	7/8	3/8
4A6L9060A1000A①	208/230/1/60	58,600	43	47	18	269	56	57	36.1	40	7/0	3/0

Must use ACONT850, AZONE950 or AZON1050 control.
 Information subject to change. Please confirm with current Product Data/Service Facts for current factory production.
 \*\* Rated in accordance with AHRI Standard 275

Platinum 19 4A6L9036A-SUB-1B-EN (Variable Speed)

### Table 1. 3.0 Ton Heating

# Reflective Surfaces	3' from Property Line	5' from Property Line	from Property Li	
0	46	41		
1	49(*)	44	ý.	
2	52	47	44	

#### Table 2. 3.0 Ton Cooling

	Sound Pressure Level dB(A)	per ARI 275 (Max Cooling)	
# Reflective Surfaces	3' from Property Line	5' from Property Line	7' from Property Line
0	45		
1	48(*)	43	
2	51	46	43

- Measuring place: Hemi-Anechoic chamber Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

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4 of 6

T.Vess Interiors

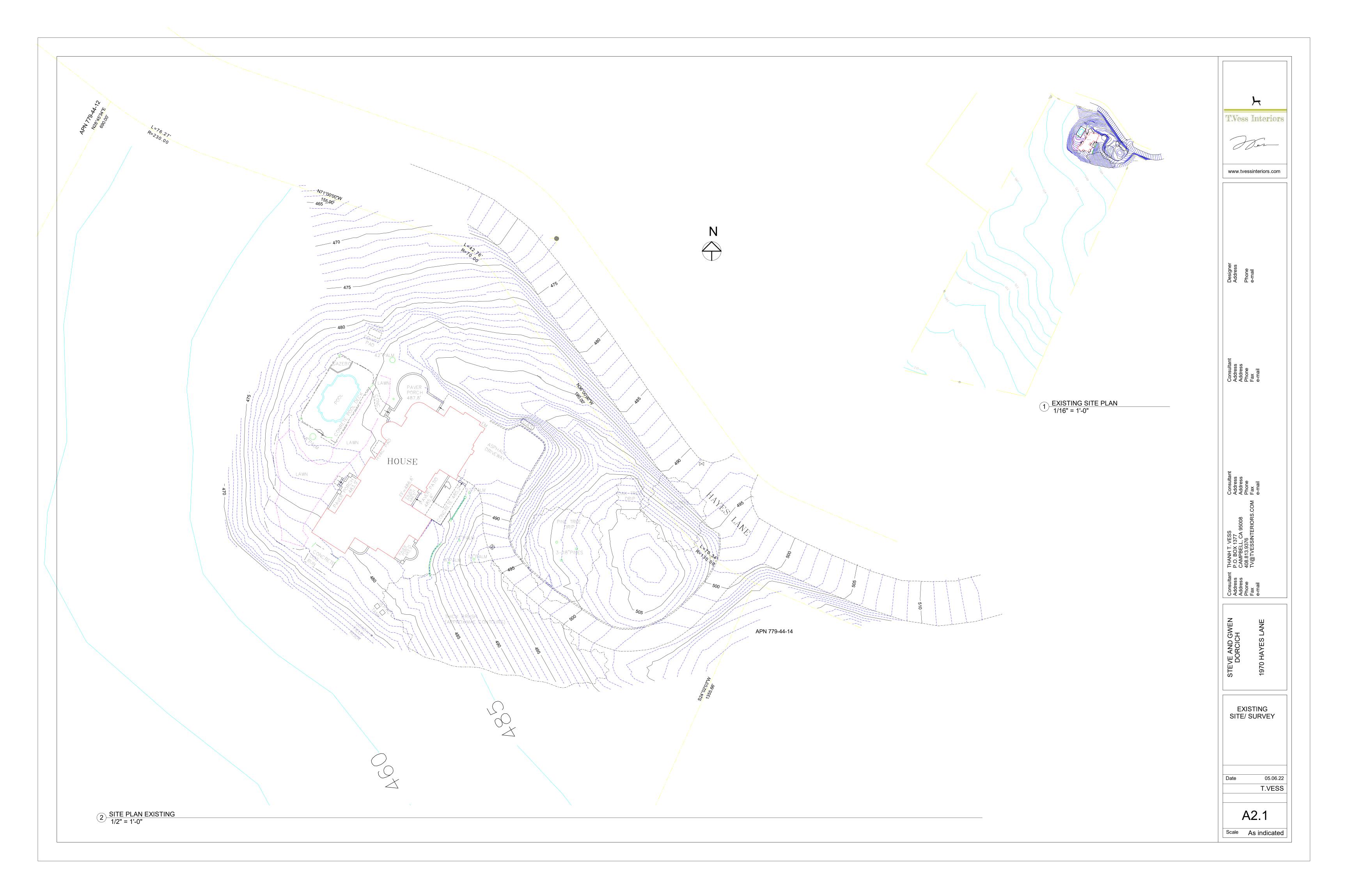
www.tvessinteriors.com

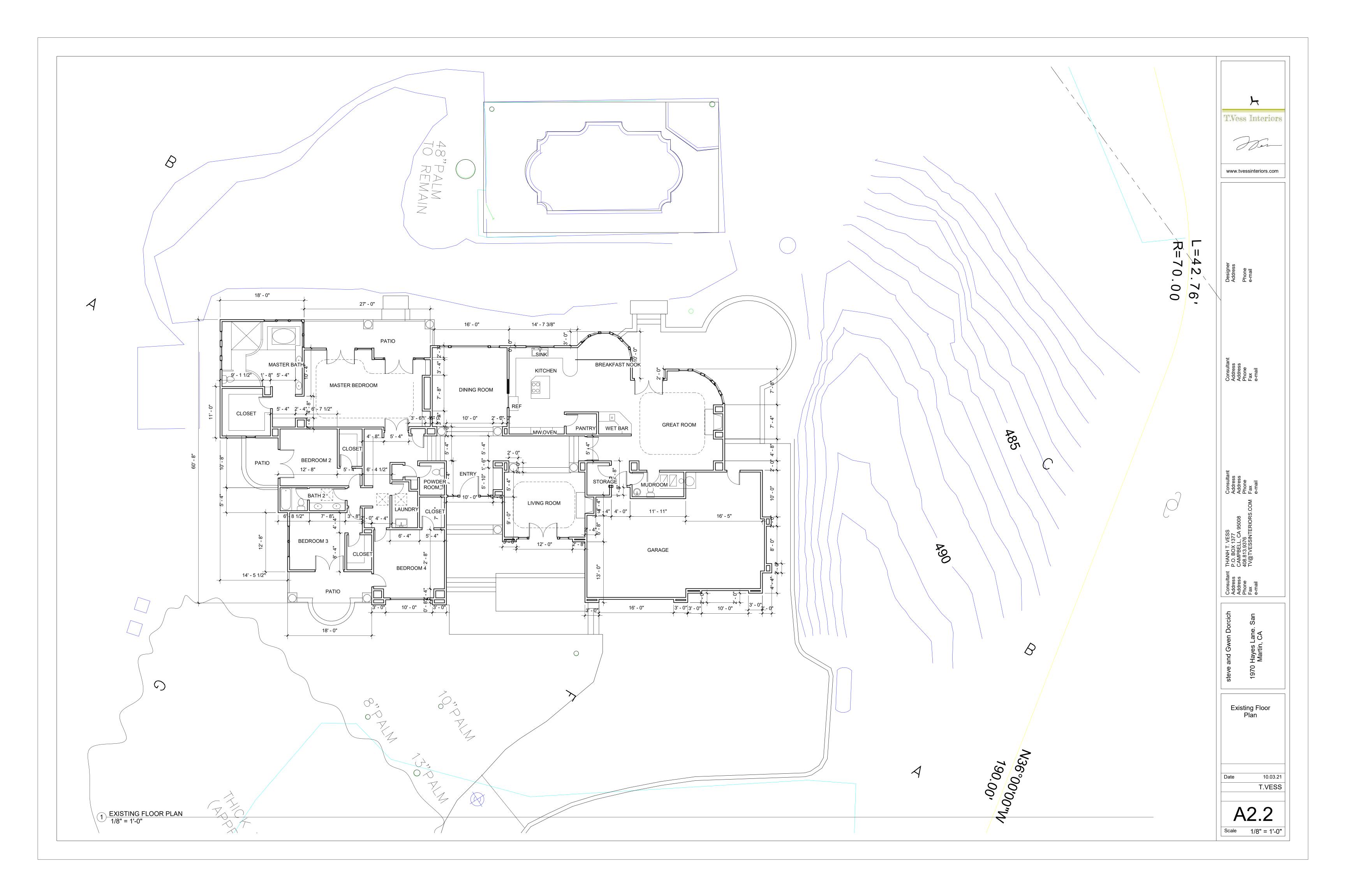
MECHANICAL SPECIFICATIONS AND NOTES

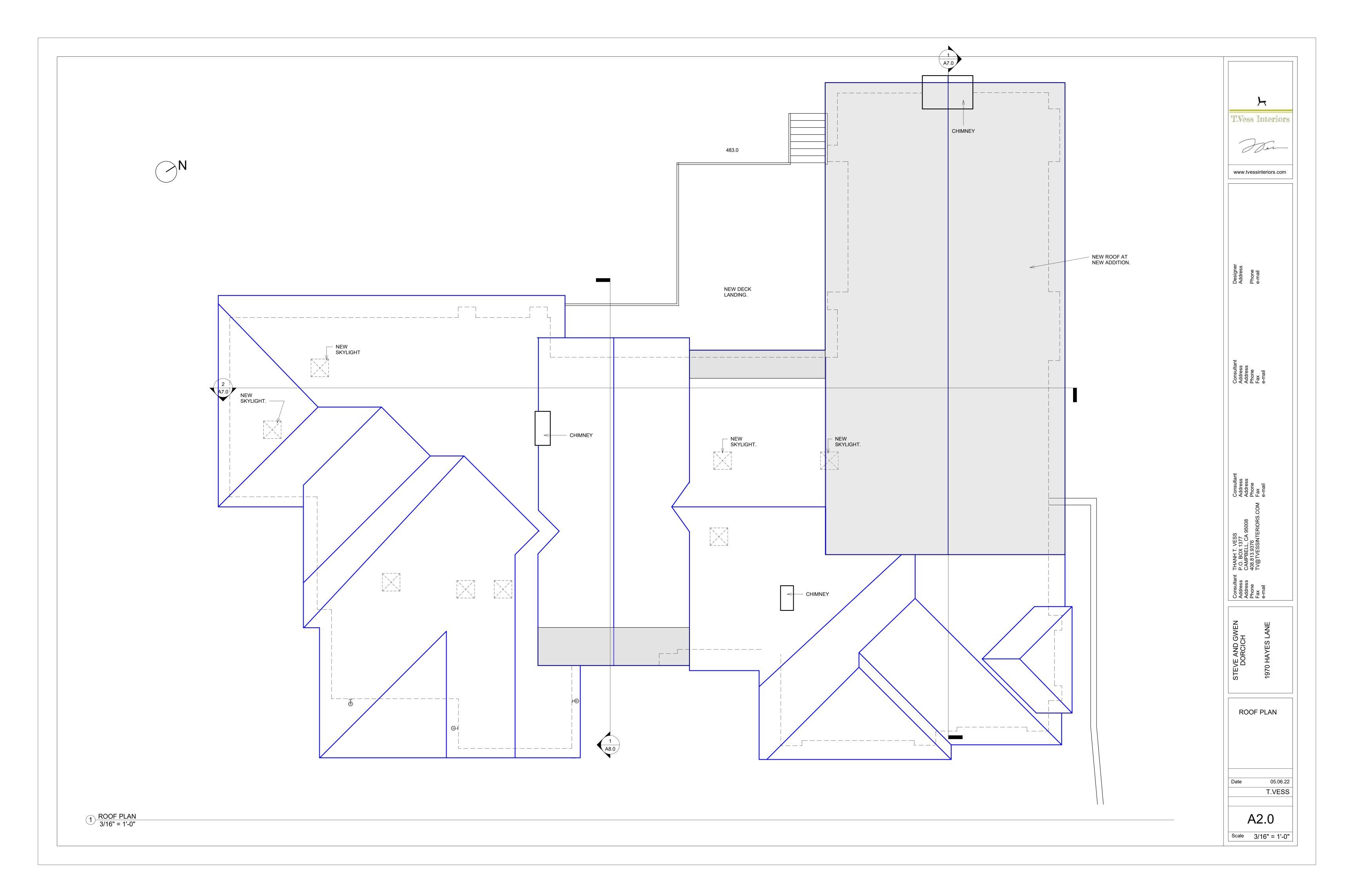
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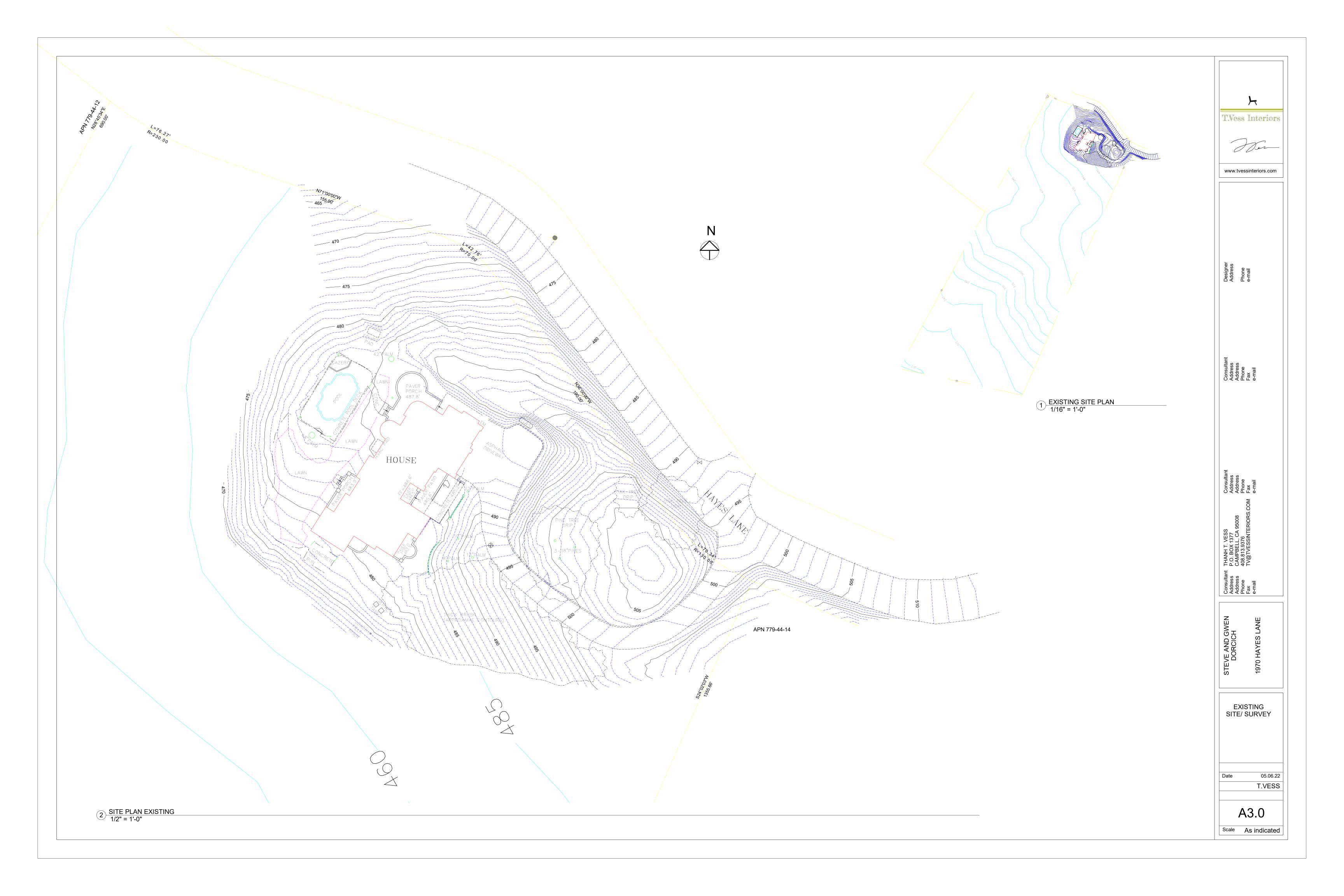
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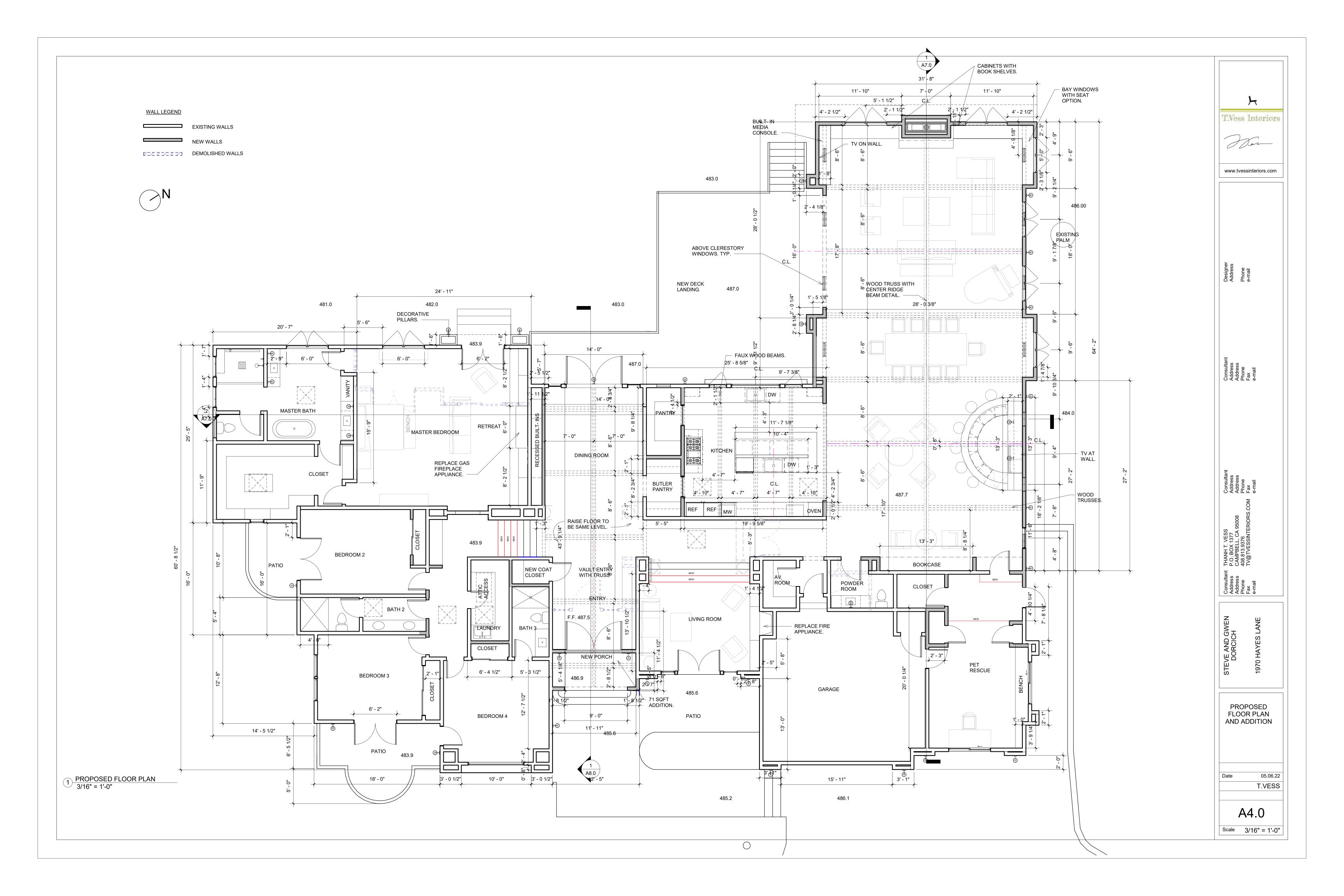


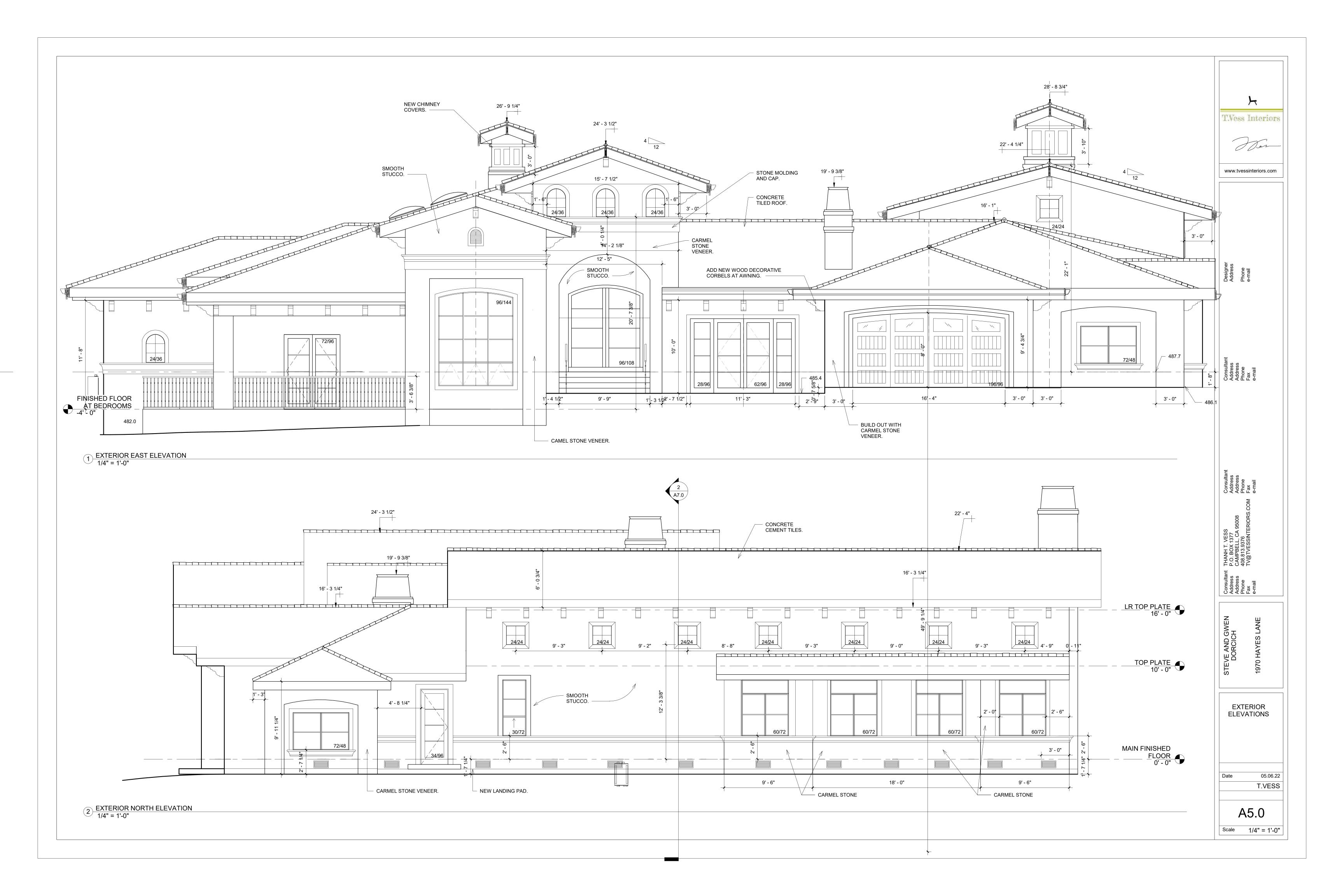




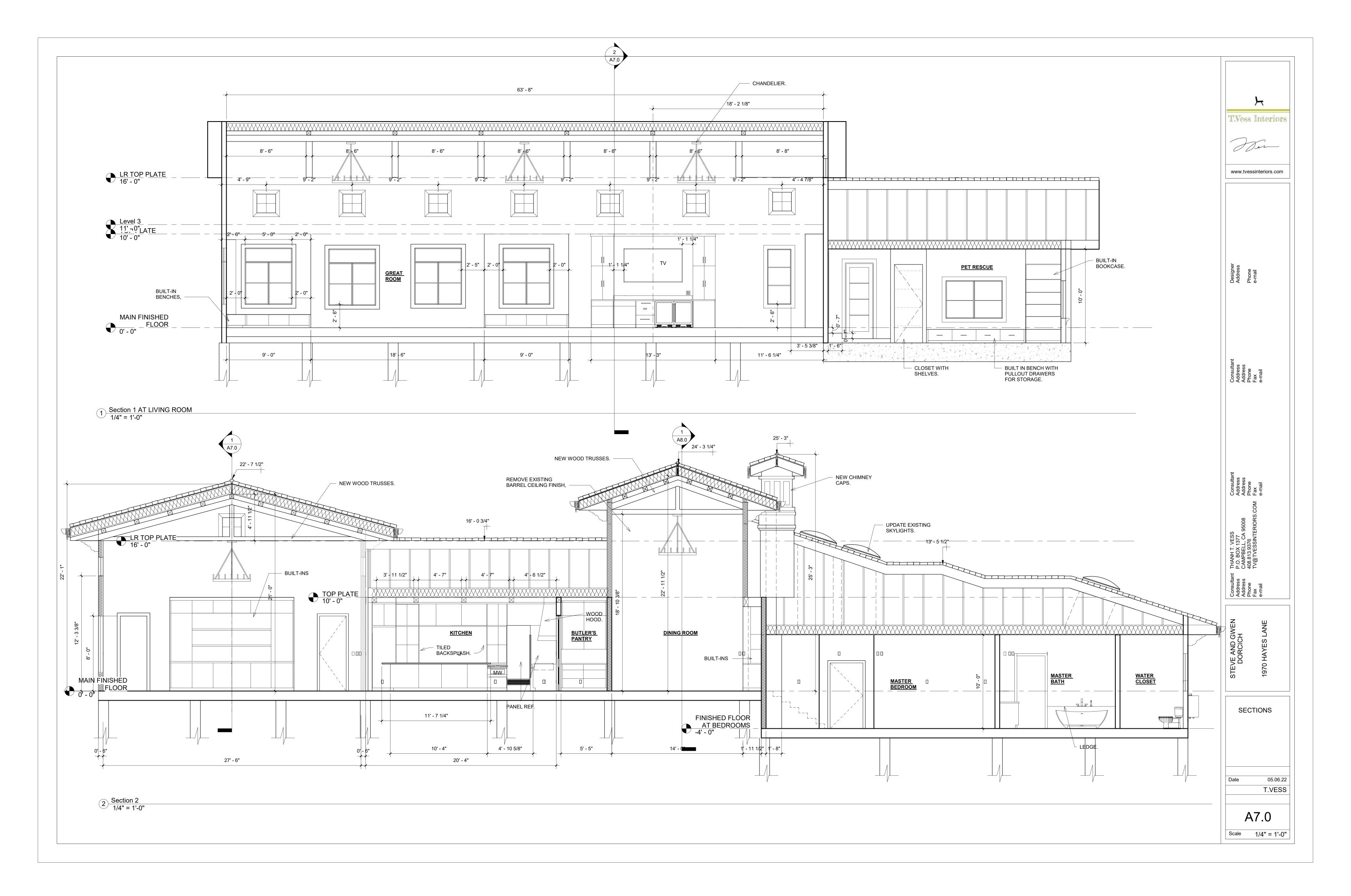


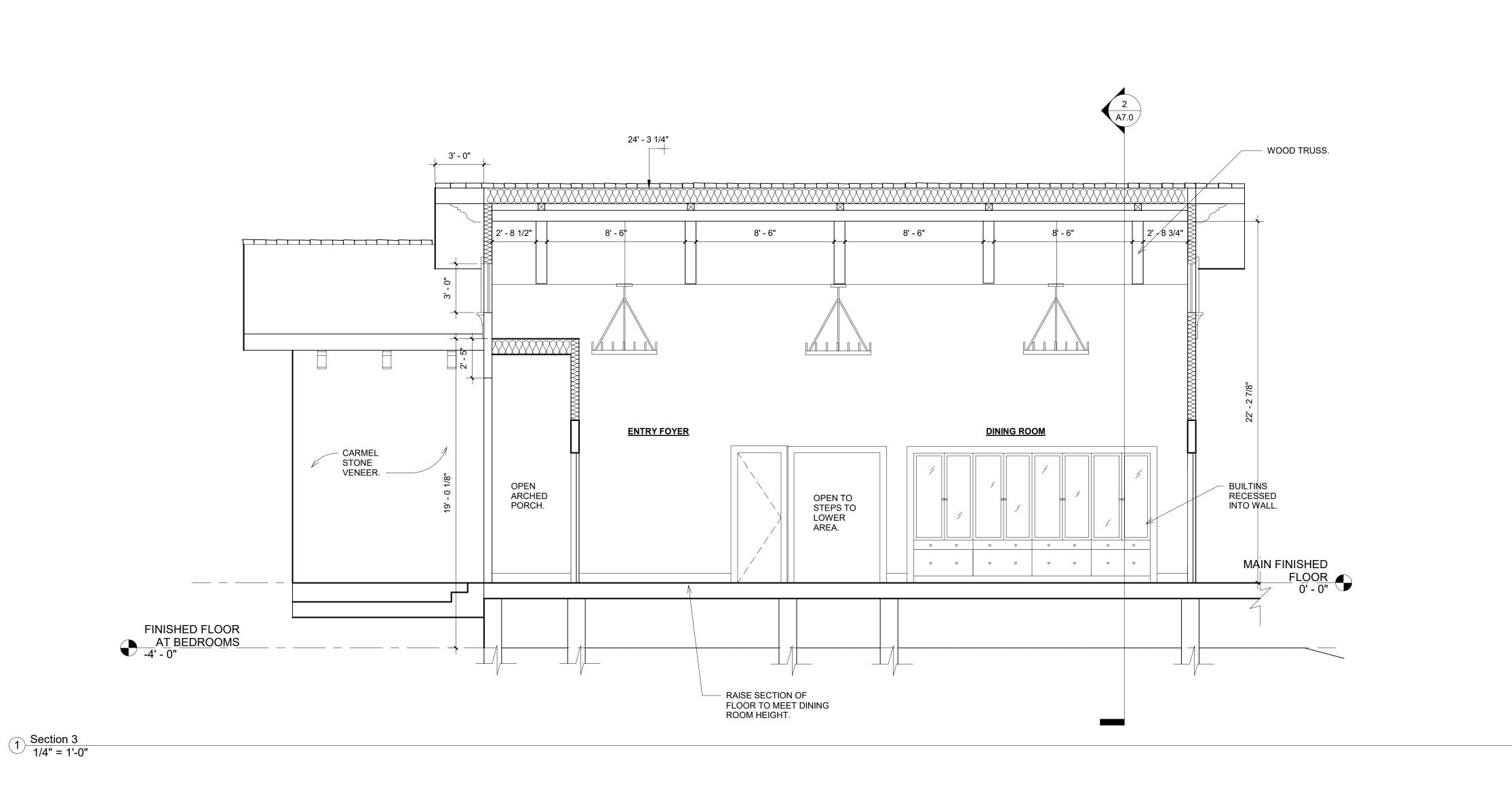












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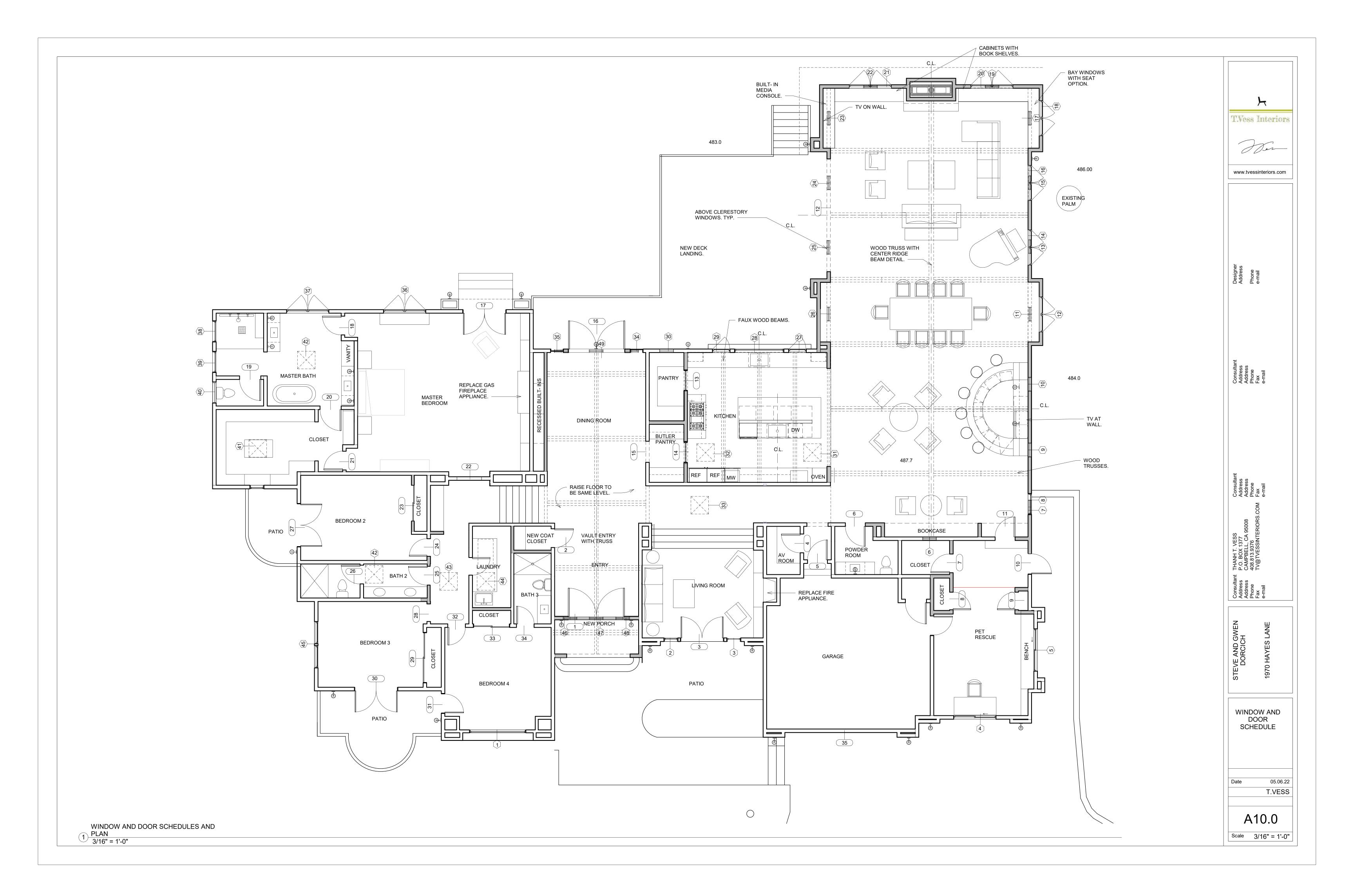
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SECTIONS

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Scale 1/4" = 1'-0"



WC	ROOM NAME	MANUFACTURER	MODEL NUMBER	SIZE IN INCHES	TYPE	SAFTEY GLASS	DIVIDERS	HARDWARE	INTERIOR FINISH	EXTERIOR F
1	BEDROOM 4	LOEWEN	LOW E	96 X 144	ABOVE FIXED/ BOTTOM THREE		GRID/ SEE ELEV	CONTEMPORAR	RICH MAHOGANY	MIDNIGHT BRONZE
2	LIVING ROOM	LOEWEN	LOW E	28 X 96	AWNING. FIXED PICTURE		YES SEE ELEV.	Y/ FAUX BRONZE N/A	RICH	MIDNIGHT
2	LIMBIC DOOM	LOEWEN	LOWE	28 X 96	CIVED DICTUDE		VEC OFF FLEV		MAHOGANY	BRONZE MIDNIGHT
	LIVING ROOM		LOW E		FIXED PICTURE	0	YES SEE ELEV.	N/A	RICH MAHOGANY	BRONZE
4	PET RESCUE	LOEWEN	LOW E	72 X 48	2 DOUBLE HUNG		NO	SASH/ FAUX BRONZE	RICH MAHOGANY	MIDNIGHT BRONZE
5	PET RESCUE	LOEWEN	LOW E	72 X 48	2 DOUBLE HUNG		NO	SASH/FAUX BRONZE	RICH MAHOGANY	MIDNIGHT BRONZE
	GREAT ROOM	LOEWEN	LOW E	24 X 24	FIXED PICTURE		GRID	N/A	RICH MAHOGANY	MIDNIGHT
	CLERESTORY AT GARAGE SIDE									BRONZE
	GREAT ROOM CLERESTORY	LOEWEN	LOW E	24 X 24	FIXED PICTURE		GRID	N/A	RICH MAHOGANY	MIDNIGHT BRONZE
8	GREAT ROOM	LOEWEN	LOW E	30 X 72	BOTTOM SINGLE HUNG		YES SEE ELEV.	SASH/ FAUX BRONZE	RICH MAHOGANY	MIDNIGHT BRONZE
	GREAT ROOM CLERESTORY	LOEWEN	LOW E	24 X 24	FIXED PICTURE		GRID	N/A	RICH MAHOGANY	MIDNIGHT BRONZE
10	GREAT ROOM	LOEWEN	LOW E	24 X 24	FIXED PICTURE		GRID	N/A	RICH	MIDNIGHT
4	GREAT ROOM	LOEWEN	LOW E	24 X 24	FIXED PICTURE		GRID	N/A	MAHOGANY RICH	BRONZE MIDNIGHT
	CLERESTORY GREAT ROOM	LOEWEN	LOW E	24 X 24	FIXED PICTURE		GRID	N/A	MAHOGANY	BRONZE MIDNIGHT
									MAHOGANY	BRONZE
	GREAT ROOM CLERESTORY	LOEWEN	LOW E	24 X 24	FIXED PICTURE		GRID	N/A	RICH MAHOGANY	MIDNIGHT BRONZE
14	GREAT ROOM	LOEWEN	LOW E	24 X 24	FIXED PICTURE		GRID	N/A	RICH MAHOGANY	MIDNIGHT BRONZE
	GREAT ROOM CLERESTORY	LOEWEN	LOWE	24 X 24	FIXED PICTURE		GRID	N/A	RICH MAHOGANY	MIDNIGHT BRONZE
	GREAT ROOM	LOEWEN	LOW E	24 X 24	FIXED PICTURE		GRID	N/A	RICH	MIDNIGHT
	GREAT ROOM	LOEWEN	LOW E	24 X 24	FIXED PICTURE		GRID	N/A	MAHOGANY RICH	BRONZE MIDNIGHT
	CLERESTORY GREAT ROOM	LOEWEN	LOW E	24 X 24	FIXED PICTURE		GRID	N/A	MAHOGANY	BRONZE MIDNIGHT
							1000		MAHOGANY	BRONZE
	GREAT ROOM CLERESTORY	LOEWEN	LOW E	24 X 24	FIXED PICTURE		GRID	N/A	RICH MAHOGANY	MIDNIGHT BRONZE
20	GREAT ROOM	LOEWEN	LOW E	60 X 72	TOP FIXED, 2 DOUBLE HUNG.		NO	SASH, FAUX BRONZE	RICH MAHOGANY	MIDNIGHT BRONZE
21	GREAT ROOM	LOEWEN	LOW E	60 X 72	TOP FIXED, 2 DOUBLE HUNG.		NO	SASH, FAUX BRONZE	RICH MAHOGANY	MIDNIGHT BRONZE
	GREAT ROOM	LOEWEN	LOW E	24 X 24	FIXED PICTURE		GRID	N/A	RICH	MIDNIGHT
23	GREAT ROOM	LOEWEN	LOW E	24 X 24	FIXED PICTURE		GRID	N/A	MAHOGANY RICH	BRONZE MIDNIGHT
	CLERESTORY GREAT ROOM	LOEWEN	LOW E	24 X 24	FIXED PICTURE		GRID	N/A	MAHOGANY	BRONZE
	CLERESTORY								MAHOGANY	BRONZE
	GREAT ROOM CLERESTORY	LOEWEN	LOW E	24 X 24	FIXED PICTURE		GRID	N/A	RICH MAHOGANY	MIDNIGHT BRONZE
	GREAT ROOM CLERESTORY	LOEWEN	LOW E	24 X 24	FIXED PICTURE		GRID	N/A	RICH MAHOGANY	MIDNIGHT BRONZE
27	KITCHEN	LOEWEN	LOW E	30 X 72	CASEMENT		GRID	CRANK CONTEMPORAR	RICH MAHOGANY	MIDNIGHT BRONZE
28	KITCHEN	LOEWEN	LOW E	84 X 72	FIXED PICTURE		NO GRID	Y/ FAUX BRONZE N/A	RICH	MIDNIGHT
20	KITCHEN	LOEWEN	LOW E	30 X 72	CASEMENT		GRID	CRANK	MAHOGANY	BRONZE MIDNIGHT
23	KITCHEN	LOCUVEIN	LOW L	30 X 12	CASLIVILINI		GRID	CONTEMPORAR Y/ FAUX BRONZE	MAHOGANY	BRONZE
30	PANTRY	LOEWEN	LOW E	24 X 24	FIXED PICTURE		GRID	N/A	RICH	MIDNIGHT
31	KITCHEN	VELUX	CURB MOUNT	30 X 30	SOLAR		N/A	N/A	MAHOGANY WHITE	BRONZE MIDNIGHT
	SKYLIGHT KITCHEN	VELUX	CURB MOUNT	30 X 30	OPERATIONAL SOLAR		N/A	N/A	WHITE	BRONZE MIDNIGHT
	SKYLIGHT				OPERATIONAL					BRONZE
	HALLWAY AT LIVING ROOM	VELUX	CURB MOUNT	30 X 30	SOLAR OPERATIONAL		N/A	N/A	WHITE	MIDNIGHT BRONZE
34	DINING ROOM	LOEWEN	LOW E	30 X 114	FIXED PICTURE		YES SEE GRID	N/A	RICH MAHOGANY	MIDNIGHT BRONZE
35	DINING ROOM	LOEWEN	LOW E	30 X 114	FIXED PICTURE		YES SEE GRID	N/A	RICH MAHOGANY	MIDNIGHT BRONZE
	MASTER BEDROOM	LOEWEN	LOWE	72 x 60	FIXED PICTURE		YES SEE GRID	N/A	RICH MAHOGANY	MIDNIGHT BRONZE
	MASTER BATH	LOEWEN	LOW E	72 x 60	FIXED PICTURE		YES SEE GRID	N/A	RICH	MIDNIGHT
38	MATH BATH	LOEWEN	LOW E	36 X 60	DOUBLE HUNG	TEMPERED	NO	N/A	MAHOGANY	BRONZE MIDNIGHT
	SHOWER MASTER BATH	LOEWEN	LOWE	36 X 60	DOUBLE HUNG		NO	N/A	MAHOGANY	BRONZE MIDNIGHT
									MAHOGANY	BRONZE
	MASTER BATH W.C.	LOEWEN	LOW E	36 X 60	DOUBLE HUNG		NO	N/A	RICH MAHOGANY	MIDNIGHT BRONZE
	MASTER BATH CLOSET	LOEWEN	LOW E	36 X 60	DOUBLE HUNG		NO	N/A	RICH MAHOGANY	MIDNIGHT BRONZE
42		VELUX	CURB MOUNT	30 X 30	SOLAR OPERATIONAL		N/A	N/A	WHITE	MIDNIGHT BRONZE
43	HALL AT	VELUX	CURB MOUNT	30 X 30	STATIONARY		N/A	N/A	WHITE	MIDNIGHT
	BEDROOMS LAUNDRY	VELUX	CURB MOUNT	30 X 30	SOLAR		N/A	N/A	RICH	BRONZE MIDNIGHT
200	SKYLIGHT BEDROOM 3	LOEWEN	LOW E	72 x 60	OPERATIONAL 2 DOUBLE HUNG		YES SEE GRID	N/A	MAHOGANY	BRONZE MIDNIGHT
1000			The state of the s					SW 100	MAHOGANY	BRONZE
	ENTRY CLERESTORY	LOEWEN	LOW E	24 X 24	FIXED PICTURE		GRID	N/A	RICH MAHOGANY	MIDNIGHT BRONZE
	and the second s	LOEWEN	LOW E	24 X 24	FIXED PICTURE		GRID	N/A	RICH MAHOGANY	MIDNIGHT BRONZE
47	ENTRY CLERESTORY				10.00				MULIOOUAL	DITOITE
47		LOEWEN	LOW E	24 X 24	FIXED PICTURE		GRID	N/A	RICH MAHOGANY	MIDNIGHT BRONZE

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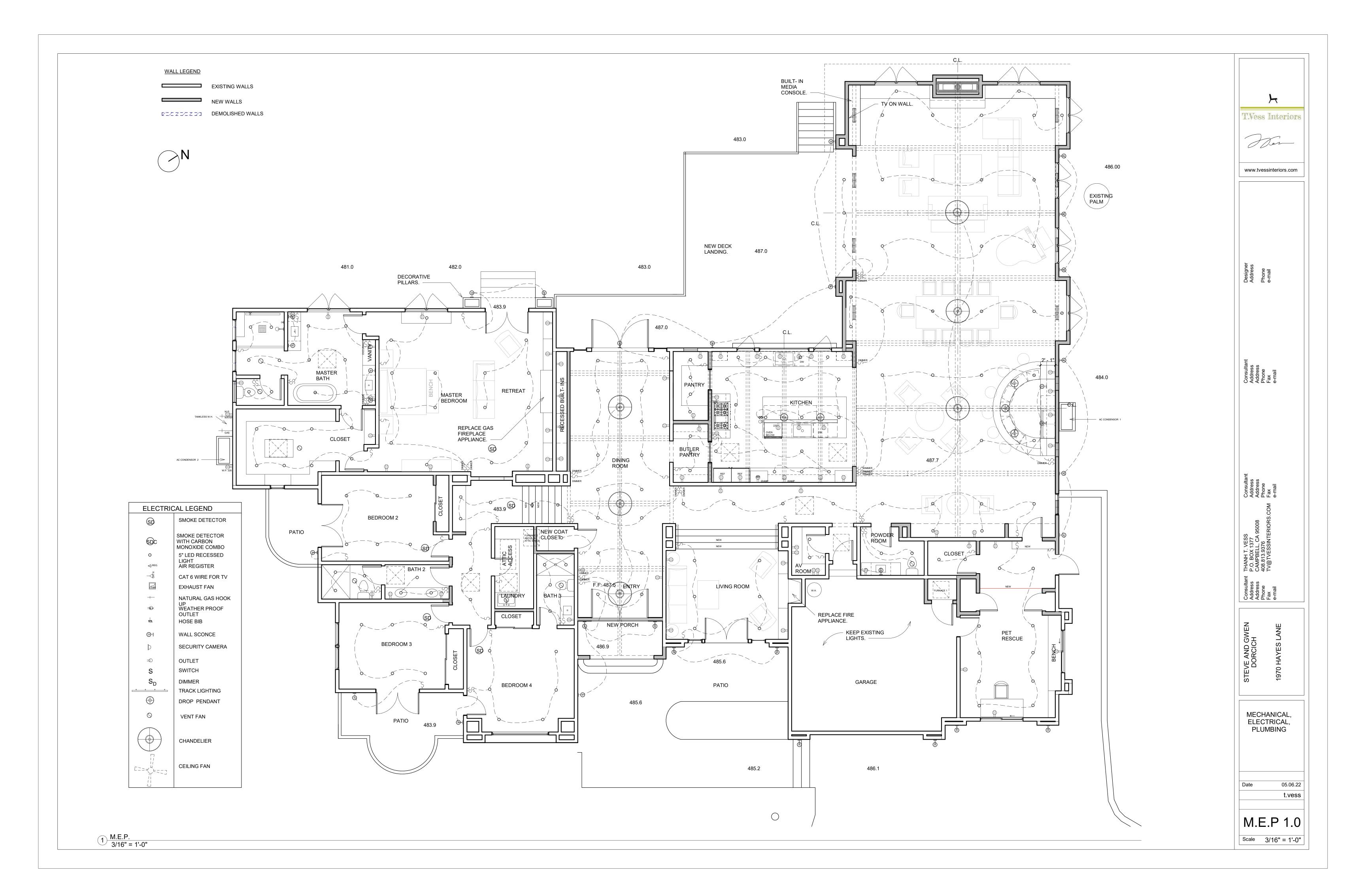
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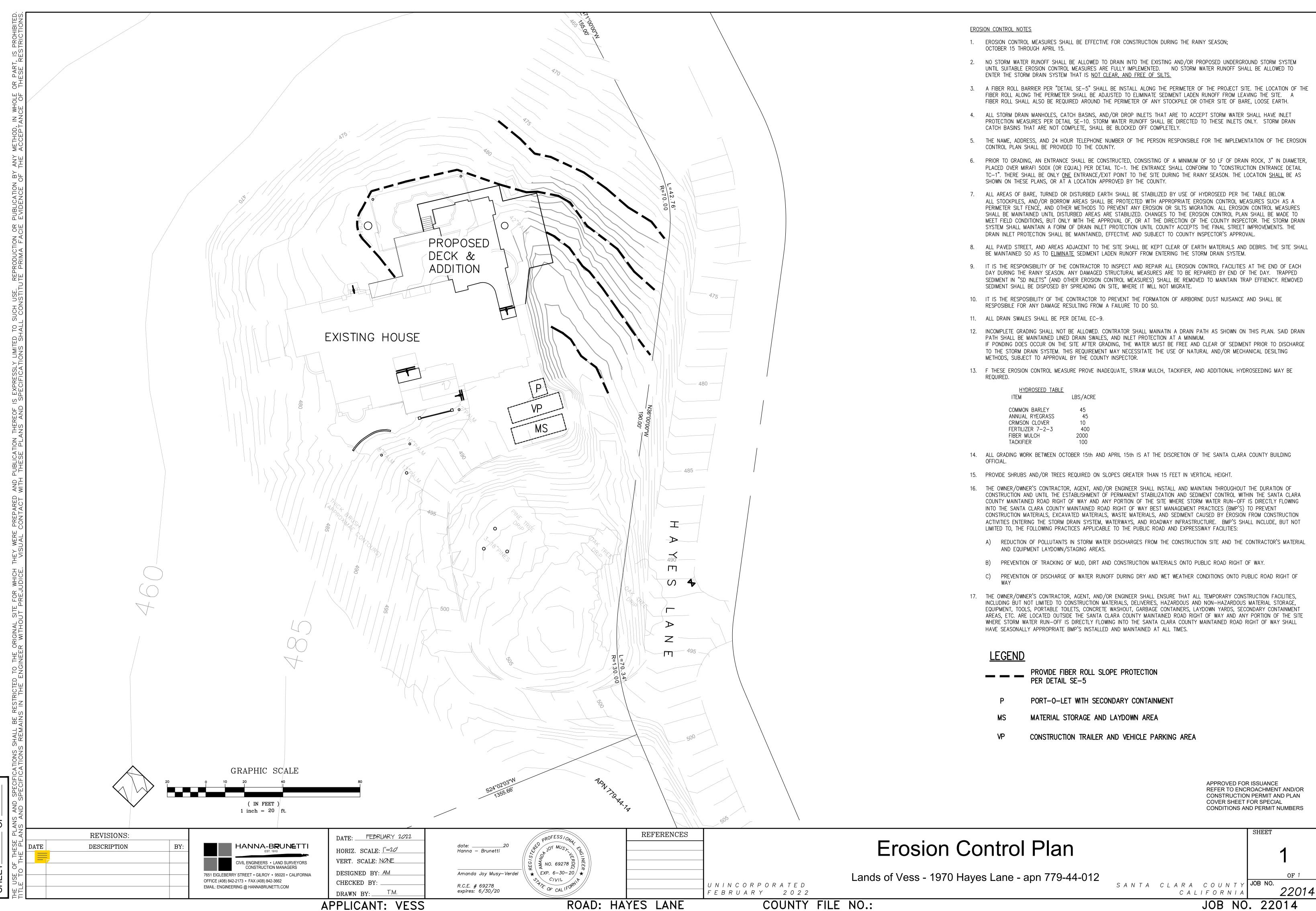
WINDOW AND DOOR SCHEDULE

> e 05.06.22 Author

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Scale





2. ALL WORK PERFORMED SHALL COMPLY WITH THESE GENERAL REQUIREMENTS UNLESS OTHERWISE NOTED ON PLANS OR SPECIFICATIONS. 3. CONTRACTOR SHALL COORDINATE ALL DRAWINGS, VERIFY ALL DIMENSIONS,

ELEVATIONS AND CONNECTIONS REFORE CONSTRUCTION 4. CONTRACTOR SHALL BE RESPONSIBLE FOR ON SITE VERIFICATION OF CONDITIONS. 5. DRAWINGS ARE NOT TO BE SCALED, DIMENSIONS NOT SPECIFIED.

WHEN REQUIRED BY FIELD CONDITION, SHALL BE DETERMINED BY 6. ENGINEER SHALL BE NOTIFIED FOR ANY FIELD CONDITIONS DIFFERENT

FROM THOSE INDICATED ON DRAWINGS. 7. ENGINEER SHALL BE NOTIFIED FOR ANY QUESTION WHICH MAY ARISE

PERTAINING TO THE DRAWINGS AND SPECIFICATIONS. 8. GENERAL CONTRACTOR AND HIS/HER SUBCONTRACTORS ARE RESPONSIBLE FOR ORDER AND MEANS OF CONSTRUCTION AND ALL TEMPORARY BRACING & ERECTION DURING CONSTRUCTION.

9. CONTRACTOR AND HIS/HER SUBCONTRACTORS ARE RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING AND THE PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREET AND UTILITIES.

IO. TYPICAL DETAILS ON THESE SHEETS SHALL APPLY WHERE NO SPECIFIC DETAILS OR SECTIONS ARE GIVEN.

II. MATERIAL NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER THE STRUCTURAL NOTES CONTAINED HEREIN. 12. ALL DRAWINGS AND SUBSEQUENT REVISIONS IF ANY SHALL BE APPROVED BY BUILDING OFFICIAL PRIOR TO STARTING CONSTRUCTION.

13. ALL DRAWINGS AND SUBSEQUENT REVISIONS IF ANY SHALL BE MADE WITH THE WRITTEN APPROVAL OF ENGINEER. 14. CONTRACTOR SHALL VERIFY ALL HEATING, VENTILATING, PLUMBING AND ELECTRICAL OPENINGS AND NOTIFY THE ENGINEER FOR ANY DEVIATIONS

FROM THE DRAWINGS. 15. THE STRUCTURAL DRAWINGS SHOW STRUCTURAL FEATURES ONLY. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND OTHER DRAWINGS FOR NON-STRUCTURAL ITEMS.

16. EXCEPT AS NOTED HEREIN, NO STRUCTURAL MEMBERS SHALL BE OMITTED, NOTCHED, CUT, BLOCKED OUT, OR RELOCATED WITHOUT PRIOR APPROVAL BY THIS ENGINEER.

17. THE STRUCTURAL DRAWINGS FOR THIS PROJECT DESCRIBE THE BUILDING STRUCTURE ONLY, AND ARE NOT INTENDED TO SHOW NON-STRUCTURAL ITEMS. COORDINATION FOR AND INSTALLATION OF MECHANICAL, ELECTRICAL, ARCHITECTURAL AND MISCELLANEOUS NON- STRUCTURAL ITEMS SHOWN ELSEWHERE IN THE PROJECT PLANS SHALL BE THE

RESPONSIBILITY OF THE GENERAL CONTRACTOR. 18. SUBCONTRACTORS FOR STRUCTURAL PORTIONS OF THE BUILDING, INCLUDING BUT NOT LIMITED TO FOUNDATIONS AND STRUCTURAL FRAME, ARE ADVISED TO REVIEW ALL DIVISIONS OF THE PLANS AND SPECIFICATIONS FOR NON-STRUCTURAL ITEMS WHICH MAY BE EMBEDDED IN ATTACHED TO OR OTHERWISE CONNECTED TO THE STRUCTURAL ELEMENTS OF THE BUILDING BEFORE SUBMITTING THEIR BIDS.

-ST6236 STRAP

NOTCHING OF STUDS IS NOT PERMITTED

L - CLEAR SPAN NO HOLES ARE PERMITTED

NOTCHING OF BEAMS IS NOT PERMITTED W/EXCEPTION SHOWN ABOVE (\* SUPPORT).

WHERE "D" IS 5 1/2" OR LESS OR

D - DEPTH OF MEMBER

2. BORE HOLE AT BEAM

TOP PL . PLUMBING

19. IN CASE OF CONFLICT, THE MORE STRINGENT REQUIREMENT SHALL

20. MATERIAL NOTES AND SPECIFICATIONS ON DRAWINGS SHALL TAKE PRECEDENCE OVER THE PROJECT SPECIFICATIONS.

-SSI.5 STUD SHOE

PLUMBING HOLE

STRAP AT PLUMBING NOTCH

#### FRAMING NOTES:

I. CONTRACTOR SHALL REVIEW ALL TYPICAL FRAMING DETAILS (E.G. TOP PLATE SPLICE, WALL CORNER CONNECTIONS, SHEAR PANEL NAILING, DRF ETC....), SILL NAILING AND BLOCK NAILING REQUIREMENTS PER FOOTNOTES IN SHEAR WALL SCHEDULE PRIOR TO STARTING ANY FRAMING WORK.

2. BEAM-TO-POST (ISOLATED) CONNECTIONS SHALL BE PROPERLY ALIGNED AND CONNECTED WITH BC BRACKETS U.O.N. 3. WHERE PARTITION WALLS PARALLEL TO THE FRAMING BELOW, DOUBLE JOISTS SHALL BE PROVIDED BELOW THE WALL, WHERE PERPENDICULAR, 2X BLOCKINGS SHALL BE PROVIDED BETWEEN EACH JOIST.

4. 2X BLOCKINGS SHALL BE PROVIDED BETWEEN THE FLOOR JOISTS AT THE ENDS AND AT EACH SUPPORT OF THE FLOOR JOISTS, SUCH AS BEARING WALL, STRUCTURAL BEAM, ETC. BLOCKINGS MAY BE OMITTED ONLY AS SPECIFIED ON PLAN, OR AT THE ENDS OF THE FLOOR JOISTS WHERE THEY ARE NAILED TO A HEADER, BEAM, OR RIM JOIST. 5. BOTTOM OF POSTS SHALL HAVE FULL BEARING IN A TIGHT-FIT CONDITION

WITH THE SUPPORTING STRUCTURAL MEMBER BELOW. 6. WHERE POSTS TERMINATED ON FLOOR WITH STUD WALLS OR BEAMS BELOW, THE SPACE BETWEEN THE BOTTOM OF THE POST AND THE TOP OF THE PLATE OR THE BEAM SHALL BE SOLIDLY FILLED WITH 2X BLOCKINGS AND THE STUD WALL BELOW SHALL HAVE MATCHING POST AT

SAME LOCATION. 7. U.O.N. BOTTOM OF ISOLATED POSTS WHEN TERMINATED ON FLOOR SHALL BE FIXED TO THE FLOOR DIAPHRAGM BY 2-A35 FRAMING ANCHORS. 8. U.O.N. ALL DOOR AND WINDOW HEADERSSHALL BE 4X8DF #2 GRADE AT 2X4 WALLS OR 6X8 DF #I GRADE AT 2X6

9. CUTTING BEAMS, JOISTS, AND RAFTERS: NOTCHES FROM TOP EDGE AND BORED HOLES SHALL BE: (I)LIMITED TO 1/6 MEMBER DEPTH, (2) OCATED AWAY EPOM REAPING NOT MORE THAN 3 TIMES MEMBER DEPTH. ALL OTHER CUTS, NOTCHES, AND BORED HOLES EXCEEDING 2" DIAMETER ARE PERMITTED ONLY WHEN APPROVED IN ADVANCE. 10. ALL FRAMING, BRACING, NAILING, NOTCHING, DRILLING, OR BORING SHALL

BE IN ACCORDANCE WITH CBC UNLESS MORE STRINGENT REQUIREMENTS ARE SPECIFIED. 11. U.O.N. ALL WINDOW AND DOOR OPENINGS 6 FT AND WIDER SHALL HAVE DOUBLE KING STUDS & TRIMMERS. 12. U.O.N. ALL FLUSH MOUNTED SAWN LUMBER BEAMS OR MULTIPLE JOISTS SHALL HAVE "HHUS" HANGERS WHERE FLUSH MOUNTED, FLUSH

MOUNTED GLULAM BEAMS SHALL BE AS INDICATED ON PLAN. 13. U.O.N. ALL FLUSH MOUNTED SINGLE FLOOR JOISTS SHALL HAVE "LUS210" HANGERS AND ALL FLUSH MOUNTED SINGLE ROOF RAFTERS SHALL HAVE "LSU" HANGERS. 14. ALL EXTERIOR WALL CORNERS SHALL BE TIED WITH ST2215'S. AT SLOPING

PLATES CONDITION. 15. POSTS OR MULTI-STUDS SHALL BE PROVIDED AT LOWER FLOOR UNDER POSTS OR MULTI-STUDS ABOVE. 16. U.O.N. ALL BEARING AND/OR SHEAR WALLS WHICH ARE PLUMBING

17. ALL CALIFORNIA FRAMING SHALL BE 2X6 RAFTERS AT 24" O.C. WITH CRIPPLE WALLS SUPPORT AT 8'-0" O.C. AT HIGH ROOF. 18. PROVIDE A35 CLIP ON EACH SIDE OF GIRDER TRUSS AT BEARING WALLS. 19. PROVIDE 3/8" CDX(OSB) AT FIREPLACE FRAMING.

### MISCELLANEOUS NOTES:

WALLS SHALL BE 2X6.

I. MAXIMUM FLOOR LIVE LOAD IS 40 PSF.

2. MAXIMUM ROOF LIVE LOAD IS 20 PSF. 3. ALL FRAMING ANCHORS, STRAPS, HANGERS, POST CAPS, COLUMN BASES, HOLDOWNS, HINGE CONNECTORS, ANGLES AND CLIPS SHALL BE MANUFACTURED BY SIMPSON OR EQUAL, NAILING SCHEDULE SHALL BE IN ACCORDANCE WITH PRODUCT REQUIREMENTS.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING THE APPROPRIATE SIZE AND CONFIGURATION OF CONNECTORS FROM THE SERIES DESIGNATED ON DRAWINGS, UNLESS NOTED OTHERWISE 5. UNLESS NOTED OTHERWISE ALL NAILS SHALL BE COMMON NAIL 6. ALL TOE NAILING SHALL BE 8D NAILS.

7. ALL NAILS EXPOSED TO THE WEATHER SHALL BE HOT-DIPPED GALVANIZED NAILS. 8. CONVENTIONAL LET-IN BRACINGS ARE NOT REQUIRED IN THIS PROJECT.

9. NELSON STUDS SHALL BE MANUFACTURED AND FABRICATED PER TRW NELSON REQUIREMENTS. O. ALL ITEMS (SPRINKLER PIPES, MECHANICAL EQUIPMENTS... ETC. INTENDED TO BE SUPPORTED ON, OR FROM THE STRUCTURE, UNLESS WITHIN THE STRUCTURAL DRAWINGS, SHALL BE SUBMITTED TO THIS ENGINEER PRIOR TO INSTALLING.

DIMENSIONS, WALKS, RAMPS, PATIOS, ELEVATIONS, ROOF PITCHES, ETC. 12, U.O.N. PROVIDE ST6236 AT PLATES AT PLUMBING PENETRATIONS. 13. ALL SIMPSON CS STRAPS SHALL BE ATTACHED TO FRAMING 8D NAILS IN EVERY OTHER NAIL HOLE IN EACH ROW.

II. UNLESS NOTES OTHERWISE, SEE ARCHITECTURAL DRAWINGS FOR

### <u>SHEATHING NOTES:</u>

I. ANY PLYWOOD SHEATHING PANELS USED ON ROOF, FLOOR AND SHEAR WALLS SHALL NOT BE LESS THAN 4 FT BY 8 FT, EXCEPT AT BOUNDARIES AND CHANGES IN FRAMING WHERE MINIMUM SHEET DIMENSION SHALL BE 24 INCHES UNLESS ALL EDGES OF THE UNDERSIZED SHEETS ARE SUPPORTED BY FRAMING MEMBER OR BLOCKING

2. ROOF PLYWOOD SHALL BE 1/2" CDX(OSB) APA 24/O, FACE GRAIN PERPENDICULAR TO FRAMING MEMBERS BELOW, STAGGER ADJACENT PANELS BY 4 FEET, NAILED WITH 8D COMMON NAILS AT 6" O.C. ALL PLYWOOD PANEL EDGES AND AT 12" O.C. ALL INTERMEDIATE SUPPORTS 3. FLOOR PLYWOOD SHALL BE 3/4" CDX APA 48/24 TONGUE AND GROOVE FACE GRAIN PERPENDICULAR TO FRAMING MENBER BELOW MEMBER

BELOW STAGGER ADJACENT PANELS BY 4 FEET, NAILED WITH IOD COMMON NAILS AT 6" O.C. ALL PLYWOOD PANEL EDGES AND AT 10" O.C. ALL INTERMEDIATE SUPPORTS. (FLOOR TRUSS SPACED • 19.2" O.C.) (USE RING SHANK NAIL AND GLUE.) FLOOR PLYWOOD SHALL BE 3/4" TONGUE AND GROOVE AT FLOOR WHEN JOISTS ARE 16" O.C. OR LESS AND 1 1/8" TONGUE AND GROOVE AT

FLOOR WHEN TRUSSES ARE GREATER THAN 16" O.C. 4. ALL FLOOR PLYWOOD SHALL BE GLUED TO THE JOISTS. THE FIELD-GLUED FLOOR SYSTEM SHALL BE INSTALLED ACCORDING TO THE RECOMMENDATION OF THE APA. GLUE SHALL BE APPLIED TO JOISTS AND TO THE GROOVE IN THE EDGE OF THE TEG PANEL. GLUE SHALL MEET THE REQUIREMENTS OF THE APA ADHESIVE SPEC. AFG-DI. AND SHALL BE APPLIED AS DIRECTED BY THE GLUE MANUFACTURER. GLUE MAY BE APPLIED MANULLY OR WITH PNEUMATIC OR ELECTRIC EQUIPMENT.

5. SHEAR WALL PLYWOOD SHALL BE 3/8"(1/2") CDX(OSB) APA 24/O, ALL PLYWOOD PANEL EDGES BLOCKED AND NAILED PER SHEARWALL SCHEDULE, ALL PLYWOOD PANEL INTERMEDIATE SUPPORTS SHALL BE NAILED WITH 8D (IOD) COMMON OR GALVANIZED BOX NAILS AT

6. SHEAR WALL CDX(OSB) SHALL BE PLACED ON THE DESIGNATED SIDE OF STUDS AS SHOWN ON PLANS. THE CDX MAY BE PLACED ON THE OPPOSITE SIDE PROVIDED: 1) THERE ARE NO PERPENDICULAR WALLS INTERSECTING FULL LENGTH OF SHEAR WALL, 2) SHEARWALL CDX (OSB) IS CONTINUOUSLY PLACED ACROSS PERPENDICULAR WALL FRAMING, OR 3) SHEAR WALL CORNER DETAIL 2/S4 IS PROPERLY FOLLOWED. '. ALL ROOF AND FLOOR BEAMS AND COLLECTORS(COLL) SHALL RECEIVE CDX(OSB) EDGE NAILING ALONG ITS FULL LENGTH.

8. ALL CALIFORNIA ROOF FRAMING SHALL HAVE ROOF CDX(OSB) AT BOTH UPPER AND LOWER ROOFS.

### NAILING SCHEDULE (MINIMUM):

THIS NAILING SCHEDULE TO BE USED ONLY IF NOT SPECIFIED ELSEWHERE IN THESES STRUCTURAL DRAWINGS. I. ALL NAILING SPECIFIED ON DRAWINGS AND THIS SCHEDULE SHALL BE IN ACCORDANCE WITH 2019 CBC TABLE 2304.10.1.

B. BRIDGING TO JOIST, TOENAIL EACH END C. SOLE PLATE TO JOIST OR BLOCKING, TYPICAL FACE NAIL (ALSO SEE SHEAR WALL SCHEDULE) SOLE PLATE TO JOIST OR BLOCKING, AT BRACED WALL PANELS (ALSO SEE SHEAR WALL SCHEDULE) D. TOP PLATE TO STUD, END NAIL E. STUD TO SOLE PLATE F. MULTIPLE STUDS, FACE NAIL

DOUBLE TOP PLATES, LAP SPLICE

RAFTERS TO TOP PLATE, TOENAIL

H. BLOCKING BETWEEN JOISTS OR

I. RIM JOIST TO TOP PLATE, TOENAIL

K. CONTINUOUS HEADER, TWO PIECES

L. CEILING JOISTS TO PLATE, TOENAIL

P. RAFTER TO PLATE, TOENAIL

R. BUILT-UP CORNER STUDS

FACE NAIL

FACE NAIL

FACE NAIL

FACE NAIL

A. JOISTS TO SILL OR GIRDER, TOENAIL

4-8D, TOENAIL OR 2-16D, END NAIL 2-20D, END NAIL • 3X SOLE PLATE 16D AT 12" O.C. G. DOUBLE TOP PLATES, TYPICAL FACE NAIL 16D AT 16" O.C. 8-16D 8D AT 6" O.C. J. TOP PLATES, LAPS AND INTERSECTIONS,

2-8D

2-16D

16D AT 16" O.C.

3-16D PER 16"

16D AT 16" O.C. ALONG EACH EDGE M. CONTINUOUS HEADER TO STUD, TOENAIL 4-8D N. CEILING JOISTS, LAPS OVER PARTITIONS, 3-16D O. CEILING JOISTS TO PARALLEL RAFTERS, 3-16D 3-8D Q. I" BRACE TO EACH STUD AND PLATE, 2-8D 16D AT 24" O.C.

6-16D EACH SIDE OF

SPLICE,

S. BUILT-UP GIRDER AND BEAMS. FOR USING MULTIPLE MEMBERS AND INTERCONNECT ADJACENT PIECES AS FOLLOWS: 2 ROWS 16D • 16" O.C. 2X MEMBERS TO II I/4" DEPTH 2X MEMBERS OVER 1/2"Ø M.B. • 24" O.C. II 1/4" DEPTH STAGGERED, 2" MIN.

FROM EDGES T. STUDS, POSTS OR 2-8D TOE NAILS EACH OR MULLIONS TO BEARING SIDE, EACH END INTO PLATES.

LL TOP PLATES SPLICE. NON-SHEAR WALLS ONLY

V. (PLATES OVERLAPPED NOT 16D AT 16" O.C. STAGGERED ALONG FULL LESS THAN 48") LENGTH W. FACIA TO END OF RAFTER 2-I6D, GALVANIZED

X. COLLAR TIE TO RAFTER 3-IOD FACE NAIL Y. JACK RAFTER TO HIP 3-IOD TOE NAIL Z. ROOF RAFTER TO 2-BY RIDGE BEAM 2-16D TOE NAIL ZI. JOIST TO BAND JOIST 3-I6D FACE NAIL Z2. LEDGER STRIP 3-I6D FACE NAIL 2, ANY CONTINUOUS WALL LINES CONTAINING SHEAR WALL SEGMENTS SHALL

HAVE THEIR TOP PLATES SPLICED ACCORDING TO THE DETAIL I/S2 "TYPICAL CONTINOUS TOP PLATES "LOCATED ON SHEET S-2. 3. ALL MACHINE BOLTS SHALL CONFORM TO ASTM A307. 4. BOLT HOLES SHALL BE 1/32" TO 1/16" LARGER THAN THE BOLT

5. A METAL PLATE, METAL STRAP, OR WASHER NOT LESS THANDIAMETER. STANDARD CUT WASHER SHALL BE BETWEEN THE WOOD AND THE BOLT HEAD AND BETWEEN THE WOOD AND THE NUT. 6. HOLES FOR NAILS SHALL BE PRE-DRILLED WHERE SPLITTING OF WOOD

7. FASTENERS FOR PRESSURE-PRESERVATIVE TREATED AND FIRE-RETARDANT TREATED WOOD SHALL BE OF HOT-DIPPED ZINC COATED GAVANIZED, OR STAINLESS STEEL.

### ADDITION AND REMODELING:

I. EXISTING CONSTRUCTION SHOWN ON DRAWINGS WAS OBTAINED FROM EXISTING DRAWINGS AND/OR BY FIELD MEASUREMENTS. 2. CONTRACTOR SHALL VERIFY ALL EXISTING FIELD CONDITIONS AND

DIMENSIONS PRIOR TO STARTING CONSTRUCTION. 3. CUTTING, DRILLING, REMOVAL ... ETC, OF THE EXISTING CONSTRUCTION SHALL BE PERFORMED IN A GREAT CARE NOT TO DAMAGE THE INTEGRITY OF THE BUILDING.

4. NO EXISTING MEMBERS MAY BE REMOVED UNLESS THE STRUCTURAL PLANS INDICATED OTHERWISE. 5. IF STRUCTURAL MEMBERS NOT INDICATED FOR REMOVAL ARE

INTERFERING WITH THE NEW WORK, THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED. 6. CONTRACTOR SHALL SAFELY SHORE THE EXISTING CONSTRUCTION WHEREVER THE EXISTING SUPPORTS ARE REMOVED TO ALLOW

THE INSTALLATION OF THE NEW WORK. 7. ALL LOCATIONS WHERE NEW STRUCTURE IS ATTACHED TO EXISTING STRUCTURE SHALL BE WATERPROOF AND DAMPPROOF. 8. OWNER OR HIS CONTRACTOR TO ENSURE THAT THE NEW ALTERATION WORKS SHALL NOT CAUSE ANY EXISTING MECHANICAL, ELECTRICAL,

## **LUMBER NOTES:**

I. ALL LUMBER SHALL BE AT A MOISTURE CONTENT OF 19% MAXIMUM AT TIME OF INSTALLATION AND FABRICATION. 2 SILL PLATES, WOOD AGAINST CONCRETE AND OTHER MEMBERS LOCATED WITHIN 8" OF FINISH GRADE SHALL BE PRESSURE TREATED DOUGLAS

3. 2X4 STUDS SHALL BE DOUGLAS FIR LARCH STANDARD GRADE OR

PLUMBING ETC. SYSTEMS UNOPERATIONAL.

4. 2X6 STUDS SHALL BE DOUGLAS FIR LARCH #2 OR BETTER. 5. TOP & SOLE PLATES SHALL BE DOUGLAS FIR LARCH #2 OR BETTER. 6. 3X € 4X POSTS SHALL BE DOUGLAS FIR LARCH #2 OR BETTER 7, 2X & 4X JOISTS AND BEAMS SHALL BE DOUGLAS FIR LARCH #2 OR

8. 6X  $\xi$  8X FRAMING MEMBERS SHALL BE DOUGLAS FIR LARCH #1 OR 9. SIMPLY SUPPORTED GLUED-LAM BEAMS SHALL BE 24F-V4 DFL/DFL

PER CBC. 10. GLUED-LAM BEAMS CANTILEVERED AT ENDS OR CONTINUOUSLY ACROSS SUPPORTS SHALL BE 24F-V8 DFL/DFL PER CBC. 11. GLUED-LAM BEAMS SHALL BEAR AITC CERTIFICATES AND SUBMITTED TO THE BUILDING OFFICIAL

12. SHOP DRAWINGS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW BEFORE FABRICATION. 13. ALL STRUCTURAL COMPOSITE LUMBER, INCLUDE PSL, LVL & GLU LAM BEAM SHALL BE 16% OR LESS FOR THE MOISTURE CONTENT.

FOUNDATION NOTES:

I. FOUNDATION DESIGN IS IN ACCORDANCE WITH:

POLLAK ENGINEERING, INC.

4. SITE GRADING, SUBGRADE PREPARATION, CUTTING SLOPES, EXCAVATION AND PLACEMENT OF ENGINEERED FILL MATERIAL SHALL BE PERFORMED IN ACCORDANCE WITH THE SOILS REPORT AND/OR GRADING PLAN.

SUB-BASE, GRAVEL, SAND, ... ETC. 6. FINISH GRADE SHALL BE SLOPED AWAY FROM THE FOUNDATION AND

7. SITE DRAINAGE REQUIREMENTS INCLUDING FINAL PAD GRADES, ROOF DRAINAGE DOWNSPOUTS SHALL BE REFERRED TO GRADING & PLOT PLANS. 8. THE LOCATION AND DIMENSION OF UNDER-FLOOR VENTILATION,

9. OWNER OF ADJACENT PROPERTY SHALL BE NOTIFIED IN WRITING IN NO LESS THAN IO DAYS BEFORE THE FOUNDATION EXCAVATION ALONG THE

PSF PER SOIL REPORT. VALUE INCREASED 33% FOR WIND OR SEISMIC LOADING.

I. FOUNDATION CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS.

### REINFORCEMENT NOTES:

1. REINFORCING STEEL SHALL BE DEFORMED BARS OF BILLET OR AXLE STEEL BAR ASTM A615 GRADE 40. AS SHOWN.

AGAINST EARTH, 2" CLEARANCE FOR CONCRETE EXPOSED TO EARTH OR WEATHER BUT DEPOSITED AGAINST FORMS, AND 3/4" CLEARANCE FOR SLABS AND WALLS WHERE CONCRETE IS NOT EXPOSED TO EARTH OR WEATHER.

5. LAP ALL REINFORCING SPLICES A MINIMUM 48 BAR DIAMETERS BUT IN NO CASE LESS THAN 48".

7. CONTRACTOR SHALL INFORM ENGINEER 48 HOURS PRIOR TO POURING STRUCTURAL CONCRETE FOR REVIEWING THE WORK.

### ANCHORAGE NOTES:

LLION ON FOUNDATION PLAN SILL PLATES FOR ALL EXTEDIOR INTERIOR BEARING AND SHEAR WALLS SHALL BE ANCHORED TO CONCRETE FOUNDATION WITH 5/8" DIAMETER ANCHOR BOLTS WITH 7" EMBEDMENT MIN.AT MAXIMUM 4 FEET ON CENTER. ANCHOR BOLTS SHALL BE INSTALLED WITH SIMPSON BP 5/8-3 (3"X3"XI/4") BEARING PLATES.

2. BEARING/SHEAR WALL AND/OR EXTERIOR WALL SILLS RECEIVING FASTENERS SHALL HAVE THE FIRST FASTENER AT 6" FROM EACH CUT END OF THE SILL. (TWO FASTENERS MINMUM PER EACH PIECE) 3. INTERIOR NON-BEARING WALL SILLS TO RECEIVE THE FIRST FASTENER AT 6" FROM EACH CUT END OF THE SILL.

7. UNLESS HELD IN PLACE WHEN POURING CONCRETE, FASTENERS TO BE INSTALLED AFTER THE CONCRETE HAS SET FOR 7 DAYS MINIMUM.

8. ANCHOR BOLTS SHALL BE IMBEDDED 7" MINIMUM INTO CONCRETE OR REINFORCED MASONRY AND 15" MINIMUM INTO UNREINFORCED GROUTED MASONRY,

WITH ROUGH FRAMING TO ASSURE PROPER AND ACCURATE INSTALLATION. II. U.O.N., INDIVIDUAL ISOLATED POSTS SHALL BE ANCHORED BY

PB CONNECTORS. 12. HOLDOWNS SHALL BE TIED IN PLACE PRIOR TO INSPECTION. 13. FASTENERS FOR PRESSURE-PRESERVATIVE TREATED AND FIRE-RETARDANT TREATED WOOD SHALL BE OF HOT-DIPPED ZINC COATED GAVANIZED, OR STAINLESS STEEL.

#### WIND DESIGN DATA: ULTIMATE WIND SPEED = 95 MPH NOMINAL WIND SPEED = 74 MPH (EXPOSURE B)

**SEISMIC DESIGN DATA:** USGS METHOD GOVERNS

SEISMIC DESIGN CATAGORY = D BUILDING STORY: I SOIL SITE CLASS = B-ROCK SS = 1.50 G SI = 0.60 G SDS = 0.90 G SDI = 0.32 G

### GRAVITY LOAD PARAMETERS

DEAD LOAD LIVE LOAD TOTAL LOAD ROOF = 15+7 PSF + 20 PSF = 42 PSF (IO PSF NON-CONCURRENTLY (7 PSE FOR CEILING JOIST) WITH TOP CHORD 20 PSF LIVE LOAD)

FLOOR = 15 PSF + 40 PSF = 55 PSF WALL (EXT) = 17 PSF

0.7V = 0.097 W

SOIL REPORT PROVIDED BY

PROJECT NO. 1270, 4 DECEMBER 2021 SHALL BE REFERENCED FOR THIS PROJECT.

2. FOUNDATION PLANS AND PERTINENT DETAILS SHALL BE REVIEWED AND APPROVED BY THE ABOVE SOILS ENGINEER PRIOR TO ANY FOUNDATION 3. SOILS REPORT SHALL TAKE PRECEDENCE OVER STRUCTURAL NOTES AND DETAILS.

5. FOR SLAB-ON-GRADE CONSTRUCTION THE SOILS REPORT SHALL BE REFERENCED REGARDING COMPACTION, SOAKING, MOISTURE BARRIER,

MINIMUM 8" BELOW THE SILL PLATE.

CONCRETE DRIVEWAY, WALKWAY, DOOR PADS AND OTHER SIMILAR ITEMS PER ARCHITECTURAL PLANS.

PROPERTY LINE. IO. ALLOWABLE BEARING PRESSURE UNDER DEAD LOAD PLUS LIVE LOAD IS 2000

### **CONCRETE NOTES:**

2, RE-BARS, DOWELS AND OTHER EMBEDDED ELEMENTS SHALL BE SECURED IN PLACE (AND APPROVED BY THE BUILDING OFFICAL) BEFORE POURING CONCRETE.

3. COLD JOINTS MAY BE USED WHERE SHOWN. JOINTING SURFACE SHALL BE CLEAN, FREE OF FOREIGN MATERIAL AND INTENTIONALLY ROUGHENED. 4. SPECIAL INSPECTIONS REQUIRED WHERE CONCRETE STRENGTH GREATER THAN 2500 PSI IS SPECIFIED.

2. REINFORCEMENT SHALL BE CLEAN AND FREE OF EXTRANEOUS MATERIAL 3. ALL REINFORCEMENT SHALL BE PLACED AND SUPPORTED IN A TRUE LINE

4. 3" CLEARANCE SHALL BE PROVIDED WHERE CONCRETE IS CASTED

6. WELDED WIRE FABRIC SHALL CONFORM TO ASTM AI85.

4. ANCHOR BOLTS MATERIAL SHALL BE ASTM A307. 5. POWDER DRIVEN ANCHOR PINS (HILTI X-DNI72, ICC ESR-2379) MAY BE USED ON INTERIOR NON-SHEAR AND NON-BEARING WALL ONLY. 6. POWDER DRIVEN ANCHOR PINS SHALL BE SPACED AT MAXIMUM

9. U.O.N., HPAHD, HTT, PHD, HDA AND HD HOLDOWNS SHALL BE ATTACHED TO 4X4 POST MIN WITH SHEAR EDGE NAILING ALONG FULL IO. CONTRACTOR IS TO VERIFY LOCATION OF HOLDOWNS AND ANCHOR BOLTS

<u>DESIGN CRITERIA FOR SEISMIC & WIND</u> PER ASCE7-16 AND 2019 CBC

WALL (INT) = 10 PSF

870

A.F.F.

ARCH

BLDG

BM

BOTT

CLG

CTR

CLR

CONC

C.M.U.

CONN

CONT

CSK

DBL

DET

DIAG

FLR

FLOOR JOIST

FACE NAILED

FACE OF STUDS

FOUNDATION

FACE OF CONCRETE

FULL LENGTH OF MEMBER

STRUCTURAL I

I.D. ANCHOR BOLTS SHEAR MATERIAL EDGE NAILLING FIELD NAILING BLOCK NAILING SILL NAILING S-SEIS (INTERMEDIATE) EA 16" O.C. EA 16" O.C. SCHEDULE W-WIN (FOOTNOTE 2) (FOOTNOTE 3) (FOOTNOTE 7) 1/2" CDX (OSB) 5/80 BOLTS • IOD COMMON OR (15/32" NOMINAL 3'-0" O.C OR GALV BOX • 6" O.C. 4-16D 2-8D T.N. + IOD COMMON OR STRUCTURAL I) PER PLAN, (2)-BLOCK ALL EDGES (2)A35 PER RF BLK GALV BOX • 12" BOLTS MIN. 2X (MUD & SOLE) (I)A35 PER FLR BLK IOD COMMON OR 1/2" CDX (OSB) 5/80 BOLTS GALV BOX • 4" O.C. (15/32" NOMINAL IOD COMMON OR | 6-16D IN 2 ROWS 2'-0" O.C OR 2-8D T.N. + STAGGERED, 3X AT STRUCTURAL I) GALV BOX • 12" W/ 4X MEMBER PER PLAN. (2) (2)A35 PER RF BLK ALL ADJOIN'G BELOW DIAPHRAGM (2)A35 PER FLR BLK BOLTS MIN. PANEL EDGES 8 2X SOLE, 3X MUD P4 1/2" CDX (OSB) IOD COMMON OR 5/80 BOLTS . (15/32" NOMINAL GALV BOX • 3" 7-16D IN 2 ROWS 1'-6" O.C OR 2-8D T.N. + LIOD COMMON OR I STRUCTURAL I) STAGGERED, 3X AT W/ 4X MEMBER PER PLAN. (2) (3)A35 PER RF BLK GALV BOX • 12" ALL ADJOIN'G BELOW DIAPHRAGM (2)A35 PER FLR BLK BOLTS MIN. PANEL EDGES 8 2X SOLE, 3X MUD P8 5/8" CDX (OSB) IOD COMMON OR

#### \* FRAMING • ADJOINING PANEL EDGES SHALL BE 3X OR WIDER, NAILS SHALL BE STAGGERED.

GALV BOX • 2"

ALL ADJOIN'G

3X (MUD & SOLE)

PANEL EDGES 8

THICKER AND NAILS ON EACH SIDE SHALL BE STAGGERED.

STAGGERED, 3X AT

I. A) CONTRACTOR SHALL REVIEW ALL TYPICAL SHEAR WALL CONNECTION DETAILS & NOTES BEFORE CONSTRUCTION. B) U.N.O. CONTRACTOR SHALL ENSURE THAT ALL SHEAR MATERIAL SHALL EXTEND FROM HORIZONTAL DIAPHRAGM (PLYWOOD CDX OR EQUAL) TO HORIZONTAL DIAPHRAGM.

IOD COMMON OR

GALV BOX • 12"

(4) 3/8" X 6"

DIAPHRAGM

LAG BOLTS W/ 4X

MEMBER BELOW

2-8D T.N. +

2. A) SILL NAILING IS THE FASTENING OF THE SILL (SOLE) PLATE LOCATED AT THE BOTTOM OF SHEAR WALLS TO THE BLOCKINGS, RIM JOISTS. OR BEAMS BENEATH THE HORIZONTAL DIAPHRAGM (FLOOR SHEATHING CDX), CARE MUST BE TAKEN TO ENSURE THE

PENETRATION TO THESE FASTENERS INTO THE BLOCKING, RIM JOISTS OR BEAM BELOW. B) SILL NAILING DOES NOT APPLY WHEN THE ABOVE MENTIONED SILL PLATE IS RESTING DIRECTLY ON CONCRETE SURFACE, IN THIS CASE, THE SILL ANCHOR REQUIREMENTS AS INDICATED ON THE FOUNDATION PLAN AND DISCUSSED IN THE ANCHORAGE NOTES ON

THIS SHEET SHALL BE FOLLOWED. C) SILL NAILING INDICATED ON SHEAR WALL SCHEDULE MAY BE OMITTED AND REPLACED WITH A MINIMUM OF 2-16D AT 16" O.C. FOR THE FOLLOWING CONDITIONS:

A) AT ALL NON-SHEAR WALLS B) AT PERIMETER SHEAR WALLS WITH THE SHEAR MATERIAL (OF UPPER SHEAR WALL) OCCURRING AT THE EXTERIOR FACE OF BUILDING AND EXTENDING PAST THE MUD SILL(FOUNDATION CONDITION) OR TOP PLATES (UPPER FLOOR CONDITION), EDGE NAILING MUST BE PROVIDED AT BLOCKING OR RIM JOIST OCCURRING AT FLOOR THICKNESS IN ADDITION TO THE EDGE NAILING AT THE

3, A) BLOCK NAILING IS THE FASTENING OF BLOCKINGS, RIM JOISTS OR BEAM DIRECTLY BELOW THE SHEAR WALL TO THE TOP PLATE OR BEAMS IMMEDIATELY BELOW. B) ALL THE BLOCKING OTHER THAN THOSE LOCATED UNDERNEATH THE SHEAR WALL SHALL BE HELD IN PLACE BY A35 PER BLOCK OR

C) BLOCK NAILING INDICATED ON SHEAR SCHEDULE MAY BE OMITTED AND REPLACED WITH 8D TOE NAILS AT 6 INCHES ON CENTER WHERE SHEAR MATERIAL OF LOWER SHEAR WALL IS EXTENDED ABOVE THE TOP PLATES (OR BEAM) AND NAILED INTO BLOCKING OR RIM JOIST. IN ADDITION TO THIS NAILING, EDGE NAILING SHOULD ALSO BE PROVIDED AT THE TOP PLATES (OF LOWER SHEAR WALL). IT SHOULD BE NOTED THAT BLOCK NAILING CAN BE OMITTED FOR STACKED SHEAR WALLS ONLY (LOWER SHEAR WALL

IMMEDIATELY BELOW UPPER SHEAR WALL). D) LTP4 CLIPS MAY BE SUBSTITUTED DIRECTLY FOR A35 CLIPS AS INDICATED IN THE TABLE. 4. A) WHERE PLYWOOD IS APPLIED ON BOTH FACED OF A WALL AND NAIL SPACING IS LESS THAN 6 INCHES ON CENTER ON EITHER SIDE, PANEL JOISTS SHALL BE OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS OR FRAMING SHALL BE 3-INCH NOMINAL OR

B) WHERE PLYWOOD IS APPLIED ON BOTH FACES OF A WALL AND NAIL SPACING IS LESS THAN 6 INCHES ON CENTER ON EITHER SIDE, 3X SILL IS REQUIRED. 5. A) PLYWOOD EDGE AND FIELD NAILING SHALL BE WITH COMMON NAILS OR GALVANIZED BOX NAILS AS INDICATED IN SHEAR WALL

6. FASTENERS FOR PRESSURE-PRESERVATIVE TREATED AND FIRE-RETARDANT TREATED WOOD SHALL BE OF HOT-DIPPED ZINC COATED GAVANIZED OR STAINLESS STEEL.

# ABBREVIATIONS

ROOF

S.G.E.

SECT

SEE ARCH DRW'GS

STRONG BACK

SCHEDULE

SECTION

STRUCTURAL GABLE END

A & B ABOVE AND BELOW FIREPLACE ANCHOR BOLTS FRAM'G FRAMING ABOVE ADJACENT FOOTING ABOVE FINISH FLOOR GALVANIZED AMERICAN PLYWOOD ASSO. GARAGE ARCHITECTURAL GENERAL BUILDING GLU-LAM BEAM **BLOCKING** HEADER BEAM BOTTOM HEIGHT BEARING INFORMATION CAMBER INTERIOR CANTL CANTILEVER JOIST HANGER CEILING JOIST TAIOL CEILING JOIST CENTER KING POST CLEARANCE KING STUD CONCRETE LATERAL(LOAD CONC. MASONARY UNIT LOCATION CONNECT, CONNECTION MANUF. MANUFACTURER CONSTRUCTION MATERIAL CONTINUOUS MAXIMUM COUNTERSINK MACHINE BOLT COLLAR TIE MANUFACTURING DOUBLE MINIMUM DETAIL MTD. MOUNTED DOUGLAS FIR DIAGONAL N/A NOT APPLICABLE DIAPHRAGN NAILING DIMENSION N.T.S. NOT TO SCALE DIRECTION O.C. ON CENTER DOOR FRAME OPPOSITE HAND DRW'G **OPENING** DRAWING EACH OPTIONAL EACH FACE ORIENTED STRAND BOARD **ELEVATION** EMBEDMEN P.E.N. PLYWOOD EDGE NAILING PERIM PERIMETER EDGE NAILING PLATE EACH WAY PLC'S PLACES EACH WAY EACH FACE PLYWD PLYWOOD **EXPANSION** PRESSURE TREATED **EXISTING** RAFTERS FINISH FLOOR REDWOOD FULL HEIGHT REQ'D REQUIRED REQUIREMENT REQ'T FINISH FLOOR RET RETAINING

SHEATHING SHTG SIMPSON COMPANY SPECIFICATIONS SPECS SQUARE SEE STR. DRW'GS STRUCTURAL SHEAR WALL SCHEDULE SHEAR WALL TYPE TOP AND BOTTOM T.B.F.V. TOP OF CONCRETE TOP OF SUB-FLOOR T.O.W. TOP OF WALL TRIMMER TYPICAL U.O.N.

TONGUE AND GROOVE TO BE FIELD VERIFIED TIEDOWN OR HOLDOWN UNLESS NOTED OTHERWISE UNLESS OTHERWISE NOTED WINDOW STEEL WIDE FLANGE WELDED WIRE FABRIC WITHOUT INCHES PARALLEL PERPENDICULAR DIAMETER CENTER LINE HANGER

**APPROXIMATELY** 

WDW.

 $\mathbb{Z}$ \_\_\_ 

 $\mathbb{Z}$ 

5/80 BOLTS

1'-3" O.C OR

(3)A35 PER RF BLK | PER PLAN, (2)

(3)A35 PER FLR BLK | BOLTS MIN.



SHEET TITLE

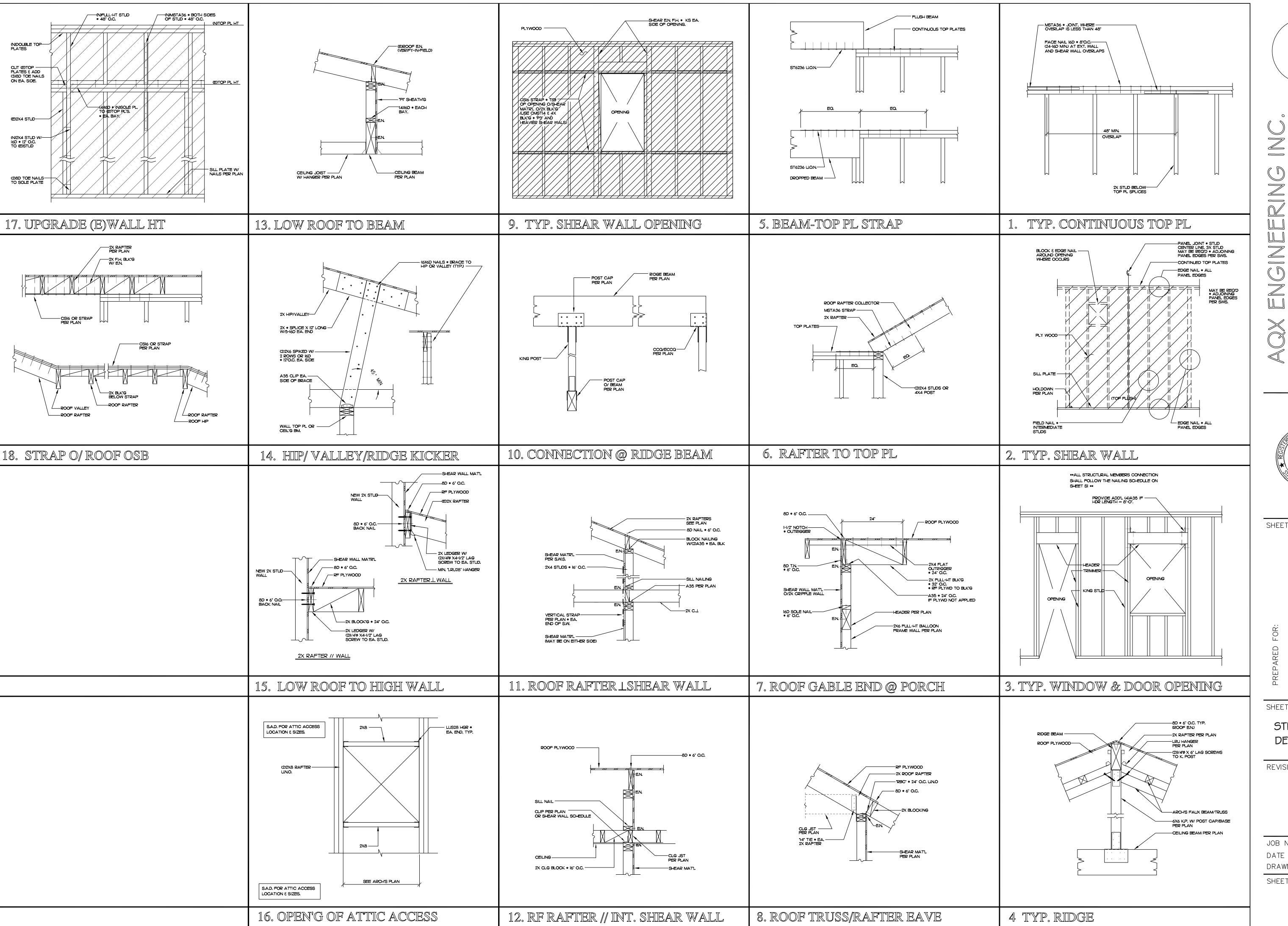
STRUCTURAL NOTES

REVISIONS

JOB NO. 2021-450 DATE 12-28-21

SHEET NUMBER

DRAWN: Joe



12-28-2021

SHEET TITLE

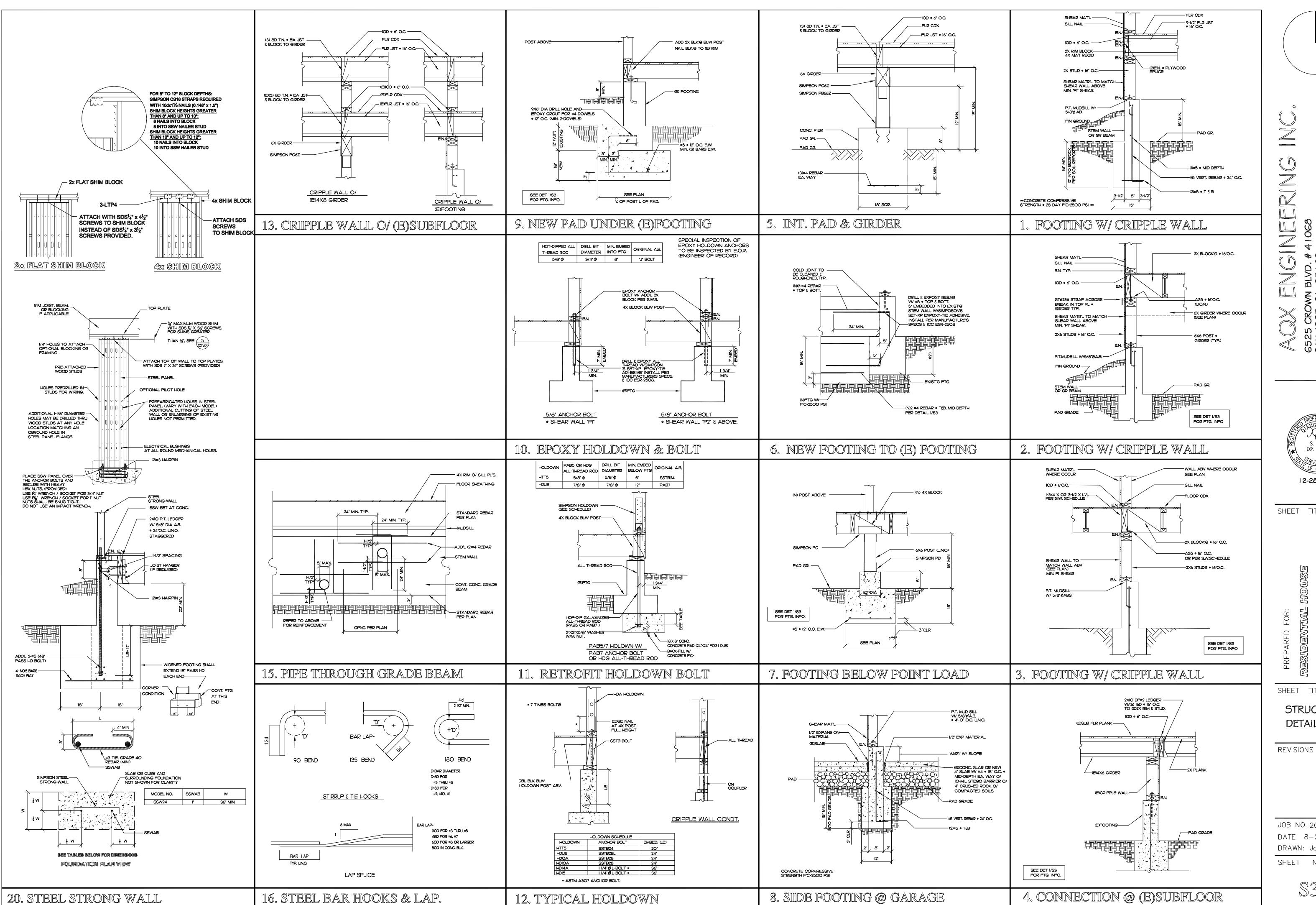
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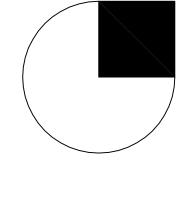
STRUCTURAL DETAILS

REVISIONS

JOB NO. 2021-450 DATE 8-24-21

DRAWN: Joe SHEET NUMBER





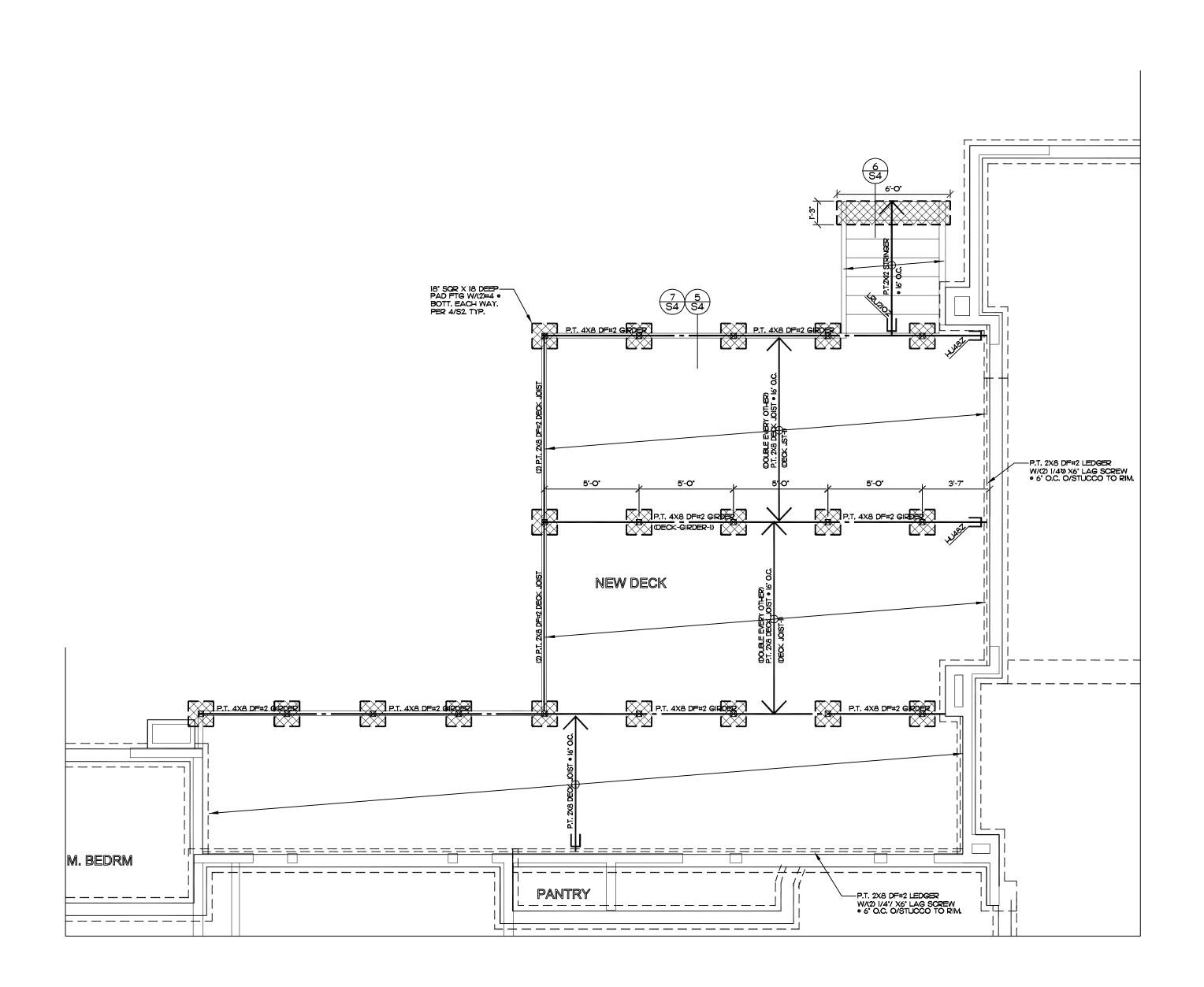
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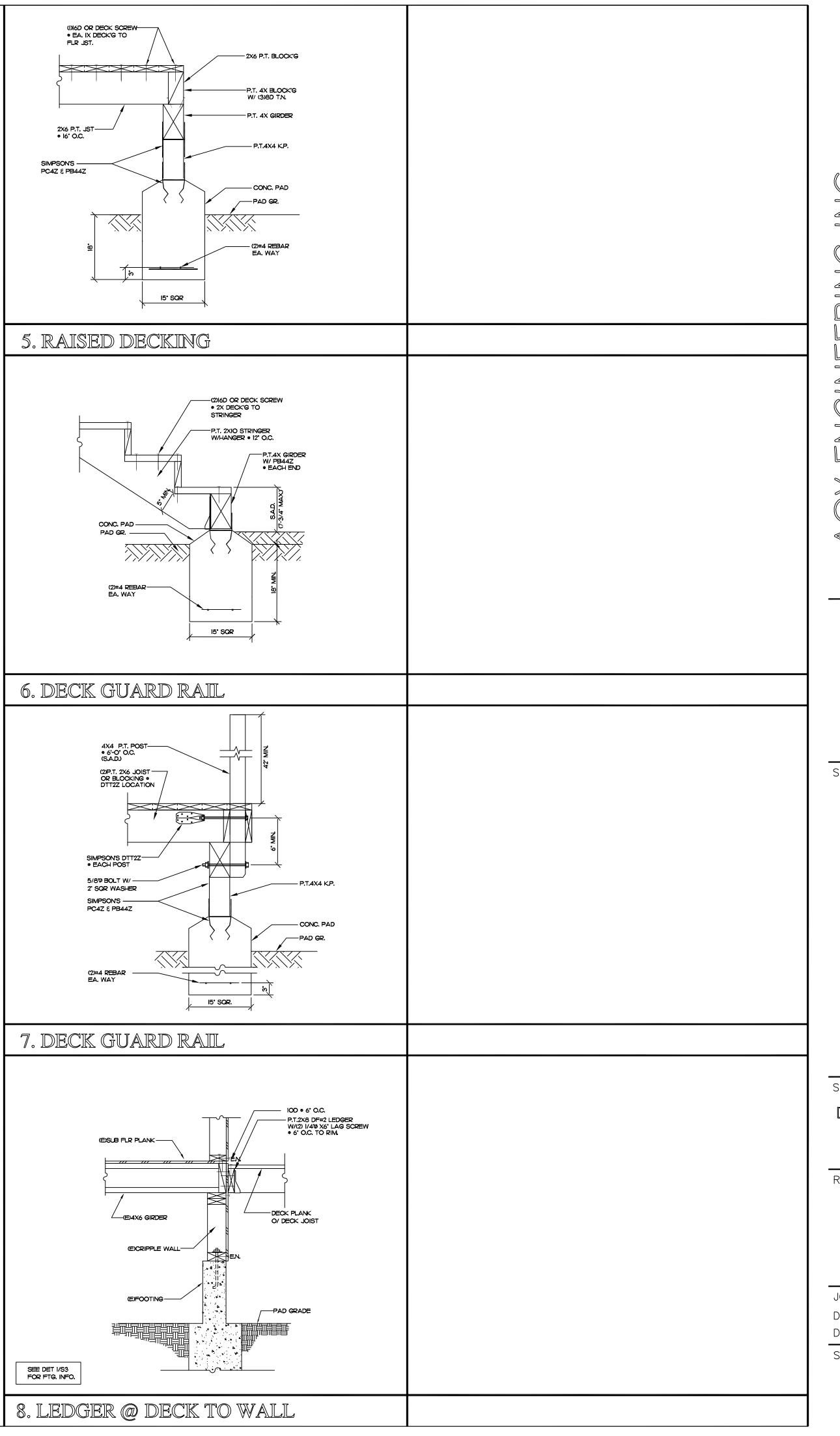
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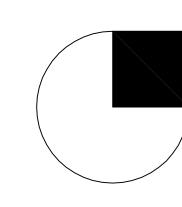
STRUCTURAL DETAILS

JOB NO. 2021-450 DATE 8-24-21 DRAWN: Joe SHEET NUMBER



DECK FRAMING & PARTIAL FOUNDATION SCALE 1/4" = 1'-0" PLAN (REFER TO S5)





S. 5289 EXP. 6/30/22 12-28-2021

SHEET TITLE

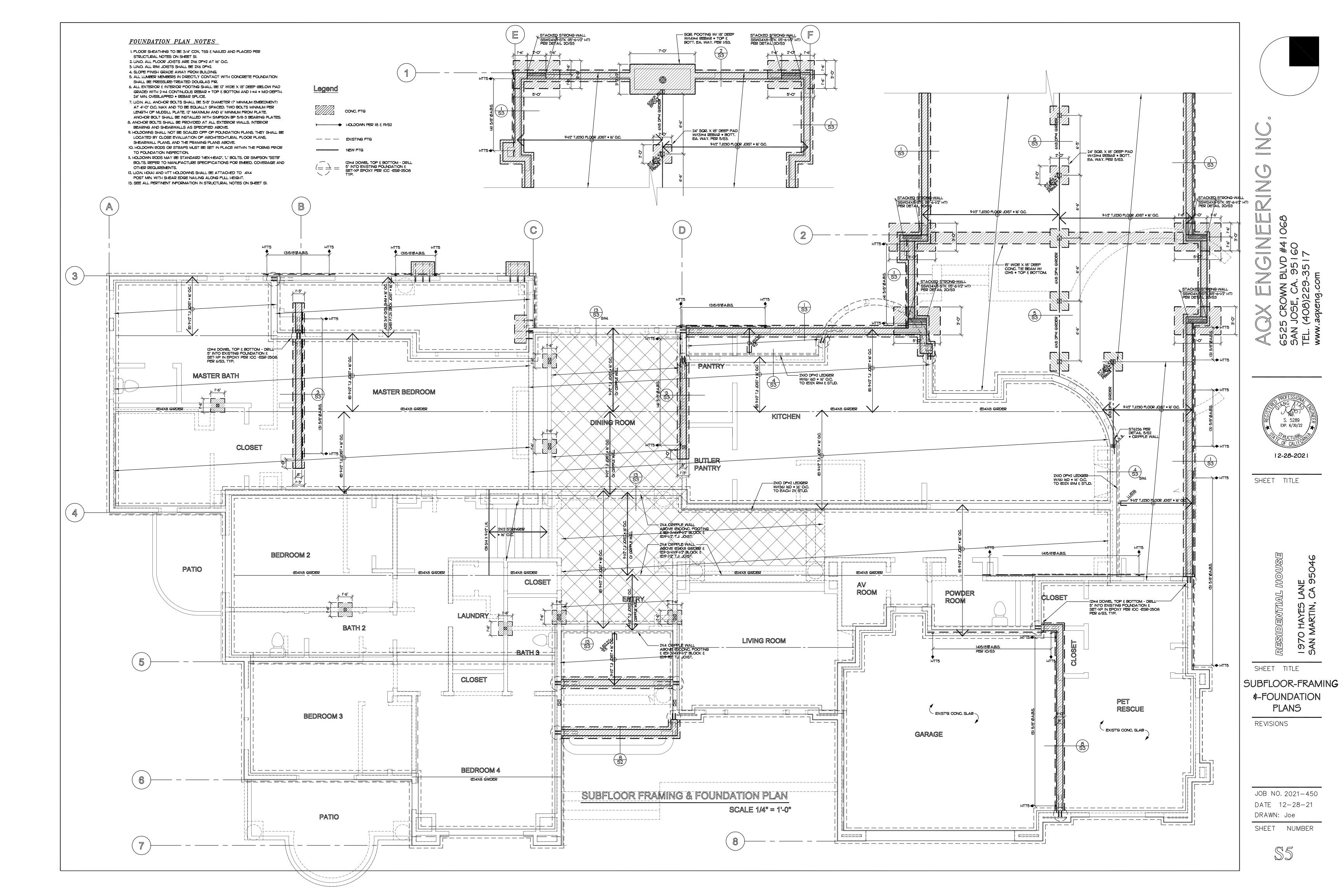
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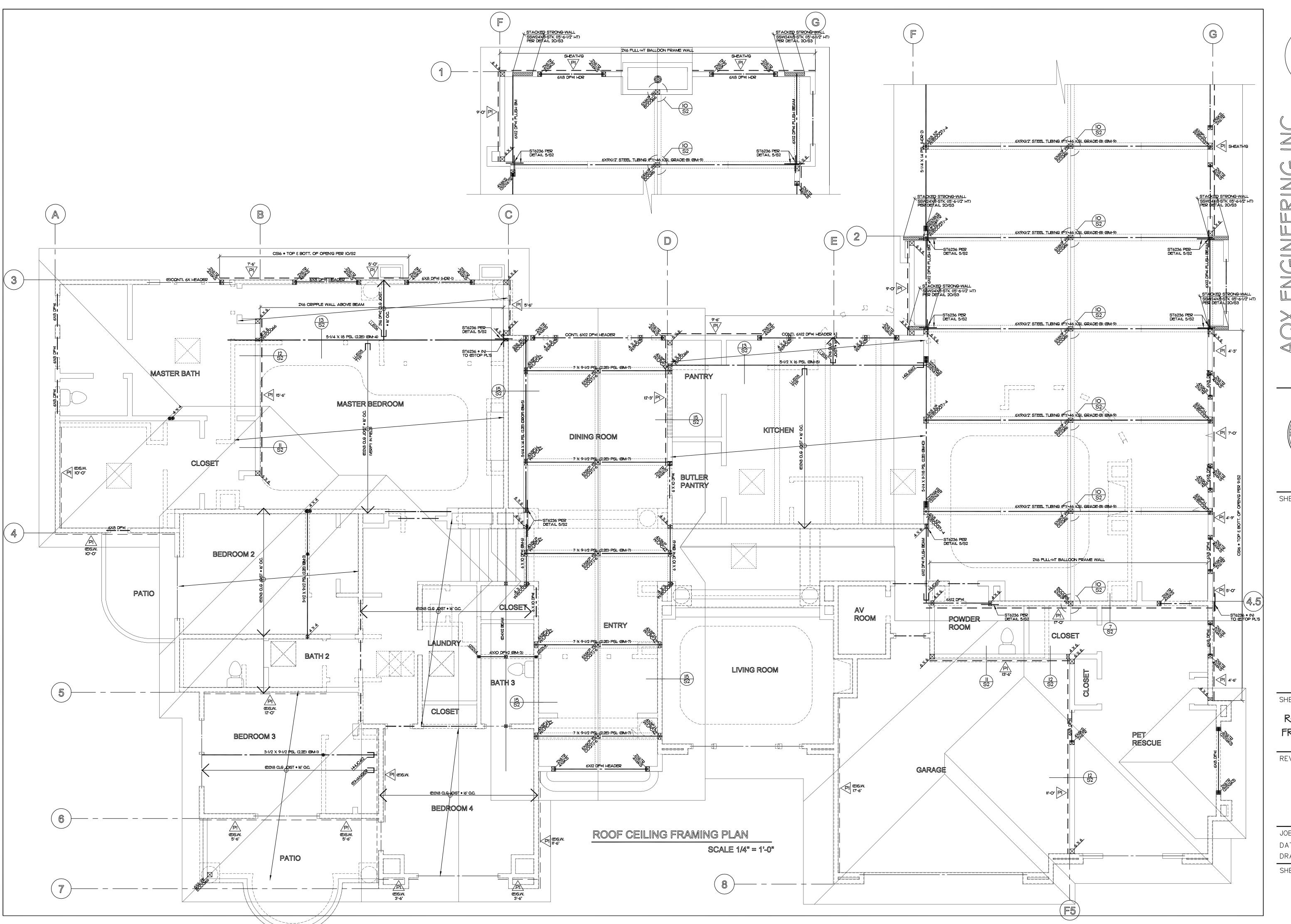
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REVISIONS

JOB NO. 2021-450 DATE 12-28-21 DRAWN: Joe SHEET NUMBER

S4





SHEET TITLE

SHEET TITLE

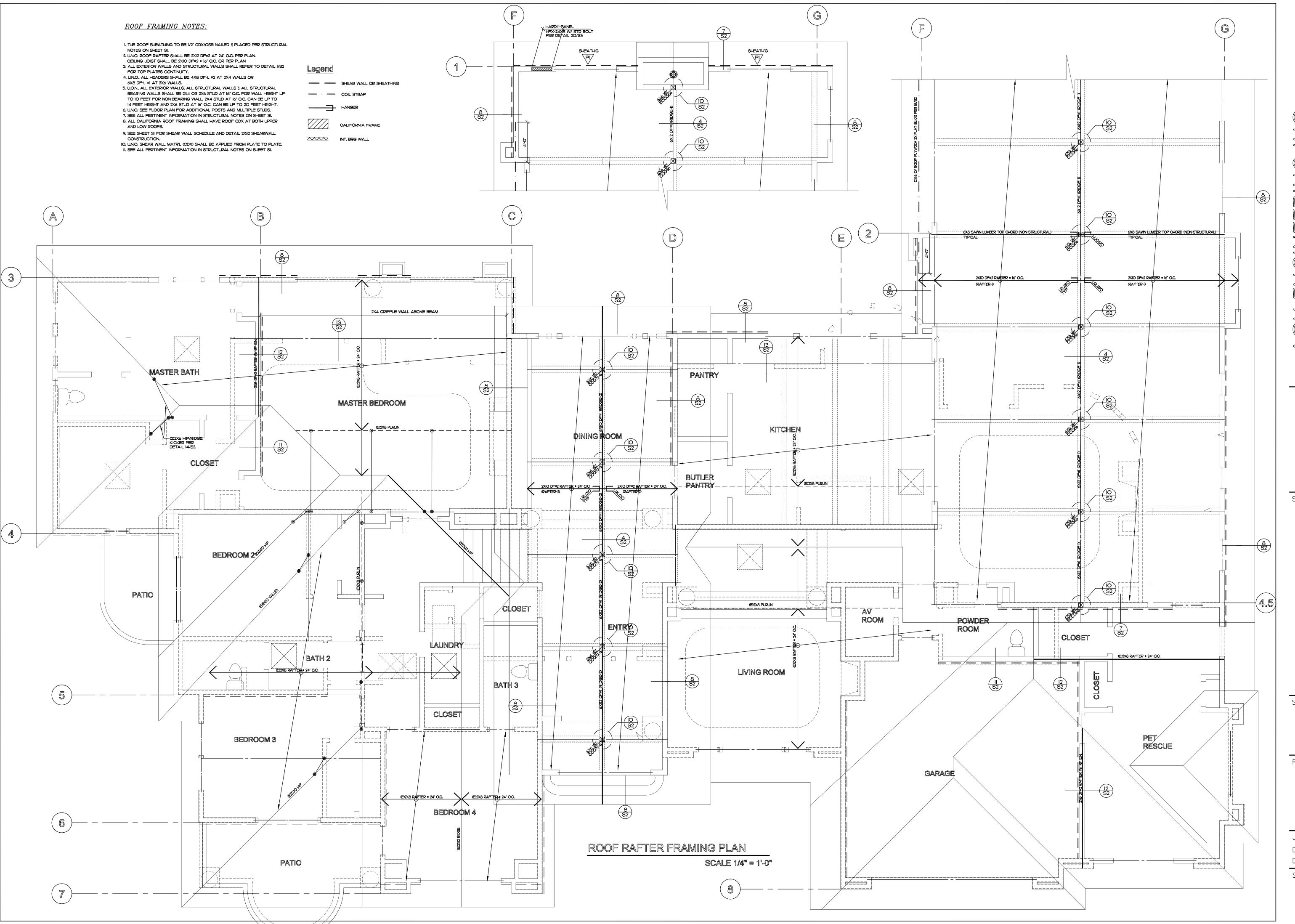
ROOF-CEILING FRAMING-PLAN

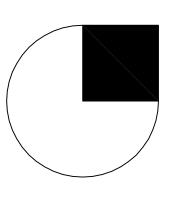
REVISIONS

JOB NO. 2021-450 DATE 12-28-21 DRAWN: Joe

SHEET NUMBER

S6





EXP. 6/30/22 12-28-2021

SHEET TITLE

SHEET TITLE

ROOF-RAFTER FRAMING-PLAN

REVISIONS

JOB NO. 2021-450 DATE 12-28-21 DRAWN: Joe

SHEET NUMBER



