the intent of these documents is to provide necessary information for a complete and functional project, whether or not such information is expresessley shown, it shall be inferred that the Contractor will provide all material and labor required for a complete and functional project, unless specifically noted otherwise.

The Plan Check Fee (if any) has already been paid by the Owner. School Fees (if applicable) will be paid 3. for directly by the Owner. The permit will be taken out in the Contractor's license. Contractor is to provide 4. proof of Workman's Compensation Insurance to both the Owner and the Building Department. Contrator to 5. obtain adn pay for all other permit costs.

Code Compliance

All work shall be in accord with applicable codes and all other local ordinances. By submitting a bid, the 8. Contractor is certifying that he/she is familiair with the local jurisdiction and how any local codes, ordinances may affect the construction. Nothing in these draqings shall be construed as requiring or allowing work in conflict with any applicable codes. In case of mulitiple interpretations, the stricter interpretation shall prevail.

It is imperative that the Contractor (and all relevant subcontractors) visit the job site for purposes of observing the existing conditions that may affect his/her bid. By submitting a bid, the Contracotor is certifying that he/she (and allrelevant subcontractors) have visited the site for the purpose of observing how existing conditions may affect the scope of the work. As a result of this visit, should the Contractor (or 3. any relevant subcontractors) have any questions, consult with the Archtiect prior to formulating and submitting thier bid. You may reach teh Architect at 510 623 9861 or by email at jbarch100@msn.com. Should the Contractor not consult with the Architect, the Contractor will assume all liability for resolving these isses, including time and material expended by the Architect. This shall not apply to "Hidden Conditions."

The Contractor should specifically observe the existing utility meters/ connections and panels to determine, whether they will have to be relocated as a result of this project and whether they are sufficuent in capacity for the project. If it appears that they may have to be relocated or upgraded, the Contractor shall alert the Archtiect who will provide appropriate instructions prior to finalizing and submitting bids.

The Contractor should specifically observe the elevation of the existing sewer lines to determine whether 10. or not the new plumbing fixtures if any) will be able to utilize a gravity flow (per CPC) and tie into the existing sewer line. If this does not appear to be possible, alert the Architect who will provide appropriate 12. instructions prior to submitting bids.

"Hidden Conditions" refers to those conditions that a competant Contractor could not reasonably have observed during a pre-bid visit to the site. For example, the presence of termite damage may be considered a "Hidden Condition"

"Apparent Conditions" refers to those conditions that a competant Contractor could reasonably have observed during a pre-bid visist to the site. For example, the prescence of a tree in the area of the addition. Plumbing Notes The tree must be removed in order to procedd with the project. Whether or not the tree removal is indicated on the documents, it would be considered an "Apparent Condition" which the Contractor should 1. factor into his/her bid.

Contractor to note the possible prescence of any hazardous materials (if readily observable) in the area of 3. the proposed constructin, along with a proposal of how it would be removed, sealed, or otherwise disposed, the proposal shall be in comliance with all applicable codes, ordinances, and laws and shall indicate who would remove/seal/dispose the hazardous material and who would bear the cost for removing/sealing/disposing.

Contractor shall verify all site conditions, dimensions, and setback clearances prior to beginning any excavations or demolition. Should any field condtions conflict with those depicted on the documents, consult with the Architect prior to proceeding.

Hazardous Materials

lead paint) that may be present or affected by the construction. removal of any hazardous materials (if required) shall be done in strict accordance with all local, county, state and or federal ordinces. laws and

**Construction Management** 

Reasonable care has been taken in the preparation of these Documents, However, since many conditions are hidden until construction begins, it is imperative that the Contractor notify the Architect should the field conditions differ from those depicted on the Documents.

In the case of conflicts between the various parts of the Documents, the stricter interpretation shall prevail. Report all conflicts to the Architect for resolution.

The Documents indicate location, dimension, reference and typical details of construction. The documents do not illustrate every condition. Work not specifically detailed shall be of similar construction to corresponding parts that are detailed. Consult with the Archtiect for additional information where required.

Do not scall the documents. Larger scale documents shall goveren over smaller scale documents. Consult with Architect in the casue of any discrepancies.

The Documents and specifications are intended to complement each other. Anything indicated in one and not the other shall be executed in both. In cases of direct conflict, the more restrictive shall take

All work shall be plumb, level, square, true iand in alignment with adjacent floors, walls and ceilings (to industry standards), unless noted otherwise.

Contractor to provide adequate protection for all existing building items and finishes that are to remain. All cutting and demolition of existing materials and finishes shall be done in a manner that does not jeopardize teh existing conditions. Patching or repairing of damage caused by the contractor and/or subcontractors shall be with materials that match kind, quality, and performance of the original.

The Contractor shall be soley responsible for the safety and security of the project site in accordance with applicable laws and ordinances.

All material and equiment to be permanently installed as part of the project shall be new, unless stated

Provide barriers as required to protect asjacent property from construction dirt, dust, and other damage.

Keep the job site premises clean at all times during construction, Contractor shall remove all construction debris, equipment and materials from the site, and thouroughly clean all areas of construction, prior to final acceptance of work by the Owner.

Provide and maintain temporary sanitary facilities for those engaged in the work as required by City and County ordinances. Upon completion of the work, remove all temporary facilities from the site.

Comply with the local jurisdiction's Construction and Demolition recycling ordinance (or similar and if applicable) or any other similar ordince engiorced by the local jurisdiction.

Where products or workmanship is specified by reference to a document not included in the Documents, comply with the requirements of the document, except where more stringent requirements are specified.

American Concrete Institure (ACI) Standards Concrete Reinforcing Steel Institure (CRSI) Standards ASTM A1615-Concrete Reinforcement ASTM C94 Ready Mix Concrete

ASTM C33 Aggregates Wood and Plastics American Institute of Timber Construction (AITC) Standards

National Forest Products Association Design Specifications American Plywood Association (APA) Western Wood Products Association (WWPA) Woodwork Institute of California (WIC): Manual of Wood Work

Thermal and Moisture Protection The California Energy Commission: Procedures for Proper Installation of Insulation. ASTM C1015-Standard Practicefor Installation of Cellulosic and Mineral Fiber Loose-Fill Insulation National Roofing Constructors' Association (NRCA); Roofing and Waterproofing Manual

Sheet Metal and Air Conditioning Contractors National Association (SMACNA); Architectural Sheet Metal and/or ASTM C1193-Standard Guide for Use of Joint Sealers

**Mechanical Electrical and Plumbing Notes** 

1. All work shall conform to all local codes and other applicable ordinances including, but not limited to the California Plumbing Code (2013 edition) California Mechanical Code (2013 Edition), California Electrical Code (2013 Edition), California Building Code (2013 Edition) and Title 24 Standards (2013 Edition).

Mechanical Contractor is responsible for selecting furnace(s) as well as duct sizing and system balancing. Minimum efficiencies for the HVAC system shall be as noted on the Title 24 Documentation prepared for this project. Please review the Title 24 Compliance for any HERS required measures and include them in the scope of your work. If required, scope of work shall include retaining a qualified HERS inspector to verify that the works complies with the requirements. Exhaust fans shall connect directly with the outside air and shall be capable of a minimum of 5 air changes per hour and shall be equipped with a back draft

damper. Termination shall be a minimum of three feet away from any operable doors/windows/skylights or fixed attic vents per CMC Section 504.5 Provide a Carbon Monoxide detector in hallway adjacent to Bedrooms (on each level, if applicable). All appliances/equipment shall be registered and labeled indicating energy usage and efficient per CEC requirements.

Provide and install all grills, registers, and ductwork with dampers. Balance to provide uniform distributuon. Insulate per CMC 2013 Edition. Provide back draft dampers and weather louvers at exhaust ducting and outlets.

Provide combustion air ro the water heater and furnace(s) per CMC and CPC (2013 Editions) All work shall conform to the following insdustry standards:

American Society of Heating Refrigeration and Air Conditioning Engineers (ASHRAE)

Provide and install ground fault circuits and grounding at all outlets, switches, motors etc in kitchen, garage, and baths (within the area of work) per CEC 2013

Dryer vent (if applicable) shall be smooth metal extending to the outside with a back draft damper. Exhaust length and termination shall be in accordance with the

Verify with Owner the style and finish of all new electrical outlets, switches, and other misc trim. At remodels, renovations, and additions, assume that all new switches outlets etc will match existing, however, verify with Owner prior to ordering materials. All wire within the home to be copper, 12 gauge for 20 amp circuits and `14 gauge for 15 amp circuits.

Electrical sub contractor shall arrange a "walk thru" with the Owner (s) a minimum of 72 hours prior to beginning rough in. Purpose is to verify the exact location of provide and/or upgrade power service, meters, panels, sub panels, feeds and other wiring as required by code to meet the requirements of the work. Contractor to pull separate permit for upgrade of Electrical Main Panel (if required) and shall coordinate with the appropriate jurisdictions for al inspections. Power shall be shut

off by appropriate jurisdiction and shall be turned back on only after appropriate inspections and approvals. Receptacle outlets shall be installed in all have=bitable rooms such that any point along a wall shall be within six (6') feet of an outlet. Any point along a kitchen counter shall be within 24 inches of an outlet. Any outlet within six feet of a sinkl shall be on a GFI circuit. Receptacle outlets installed in new rooms and existing rooms being rewired (other than bathrooms and kitchens) shall be on Arc Fault Interrupter (AFCI).

All smoke detectors installed shall be interconnected and shall be 100 volt hard wired with battery backup. See Floor Plan for locations.

Exterior Lights (if indicated on the plans)shall be marked for "wet use"per CEC, 2013 Edition. Closet lights (if indicated on the plans) shall be installed per CEC 2013 Edition.

Exhaust fans with integral lighting shall be switched separately.

California Code of Regulations Title 24 2013 Standards

Recessed lighting in tub/shower or shower compartments shall be "wet listed"type if subject to spray. Provide a separate 20 amp branch circuit serving the required bathroom outlet(s) per CEC Section 210.11 (C)(3). Note that this circuit cannot supply any other

receptacles in the bathroom such as lights, fans etc unless a separate circuit is provided for each bathroom. Provide a minimum of two separate 20-amp small appliance branch circuits serving the kitchen counter outlets per the CEC (2013 Edition).

Provide a 20 amp branch circuit serving the laundry roomoutlets per the CEC, 2013 Edition.

All work shall conform with the following industry standards California Code of Regulations Titel 24 2013 Standards National Electrical Manufacturer;s Association (NEMA)

Underwriter's Laboratory (UL)

Provide and install meter connections, upgrades to meter, water and gas supply piping, waster and vent lines, clean-outs, valves, stops, traps, fittings connections and matching trim for a complete and functional installation.

Size or upsize all lines per code requirements and insure full flow pressure to all users when multiple fixtures are in use in different locations at the same time.

Caulk around all tubs, sinks, toilets, etc with DAP or other approved sealant.

All new water lines to be copper, including water main from the street (if indicated on the plans). Solder used in all joints to be free of lead or cadmium. Drain lines between floors, and in first and second floor walls shall be cast-iron. Drain lines below the lower floor may be ABS if allowed by the local jurisdiction,

Vent lines may be ABS if allowed by local jurisdiction.

All plumbing fixtures shall be IAMPO or UPC approved. Provide nonremovable backflow prevention device on all new hose-bibs.

Provide ultra low flsh toilets (1.28 gallons per flush)at allnew toilets.

the California Plumbing Code (CPC), and all other local codes and ordinances.

The foundation design is based upon a bearing capacity of 1500 psf.

Provide minimum clear cover of concrete over reinforcingf steel as follows:

safety ordinances. Any deviations must be approved prior to proceeding.

Cement shall conform to ASTM C-150, type 1 or type 2.

To formed surfaces

All reinforcing steel shall be lapped as noted below:

Welded wire fabric shall conform to ASTM A82 and A185.

Parallam or Microlam or Versallam beams

All Trus Joists are TJI as manufactured by Trus Joist Corporation...

Ceiling and Floor joists shall have cross bridging at 8' oc maximum

Unless noted otherwise on the documents, plywood sheathing shall be nailed as follows:

Between bars

#5 bars

#6 bars

2x rafters and joists

6x and larger beams

Glued Laminated Beams (Glu-Lams)

Wood Trus Joists

4x and larger posts/columns

3x and 4x beams

REINFORCING STEEL

Placement of concrete shall be in conformance with ACI 301.

To surfaces in contact with earth

Storage gas water heatrers (if within the scope of the work) shall be installed on a min 18 inch high platform whenlocated within the garage. provide seismic anchorage of the water heater including anchors or straps at points within the upper and lower 1/3 of its vertival dimension. The lower strap shall be located a minimum of 4 inches above the controls per CPC, 20103Edition.

All concrete shall have a minimum compressive strength of 2500 psi (28 day ultimate strength), maximum 4 inch slump, and shall have a maximum aggregates size of 3/4 inch.

All reinforcing steel shal conform to ASTM specifications A615 grade 40 for #5 and larger bars and grade 60 for #4 and smaller bars. All bars shall be clean dn free from rust.

support for the individual TJI joists and the entire system until the sheathign has been applied. All framing shall be inspected prior to lywood application.

Wood framing shall be inaccordance with the 2013 California Building Code (CBC) and the standard practices recommended by the American Institute of Timber Constructin (AITC).

Concrete shall be machine mixed and delivered in accordance with ASTM C-94. Submit mix design to the Architect for approval prior to placing concrete.

3 inches

2 inches

2 inches

24 inches for bottom bars and 28 inches for top bars

30 inches for bottom bars and 35 inches for top bars

40 inches for bottom bars and 45 inches for top bars

Unless specifically noted on the documents, all framing members shall be Douglas Fir (DF)and shall have the following grades:

#2 or better

#2 or better

#1 or better

#2 or better

h#2 or better

THI joists shall be sized and detailed as shown on the drawings unless specifcally approved by the Archtiect.

All material shall be stored adequately as recommended by manufacturer to avoid damage due to weather.

Block joists over all supprts and provide double joists under parallel walls. Nail doubled joists with 2 rows of 16d at 16"oc.

Wall Sheathing 1/2" cdx min 8d at 6 inches oc and 12 inches oc at all field areas. See details for nailing around openings etc.

wire nails:holes for nails shall be provided where the wood memebrs tend to split. Split wood members shall be replaced and removed from the job.

All TJI joists shall be manufactured in a plant approved for fabircation by the Building Department.

Contractor shall protect the work from any damages due to weather conditions at the time of construction.

blocking designated as collectors.

Anchor bolts, dowels, and other embedded items shall be firmly secured and tied in place prior to placing concrete.

All wood bearing directly on or incontact with concrete or masonary shall be Pressure Treated Douglas Fir (PTDF).

Plywood sheathing shall be cdx exterior grade and shall be clearly stamped with the DFPA grade mark of the APA.

The Contractor shall verify and be responsible for all dimensions and conditions at the job site and shall notify the Archtiect of any discrepancies between the actual conditions and what is shown on the documents prior to

The Contractor shall be responsible for the safety of the structure during construction and/or demolition. The contractor shall provide adequate shoring and bracing and guys in accordance with all national, state and local

A. Glu-Lam Beams shall be Douglas Fir combination 24F, V-4 or V-8, industrial appearance and shall conform to Voluntary product standards PS56-73. Structural Glued Laminated Timber, unless noted otherwise. Use

Brace and supprt all members for temporary construction loads. Erection bracing in addition to specifed bridging is to be provided to keep the TJI joists straight and plumbas required and to assure adequate lateral

Wood framing members not bearing directly on bearing points shall be supprted by means of framing hardware as manufactured by Simpson Strong Tie or Trus Joist Macmillan. Install and nail hangers in accordacne with the

Wood members shall be connected with nailing per the 2013 CBC unless greater sizes and number of nails are shown and noted on the documents. Nails exposed to weather shall be galvanized. Nails shall be common

Roof Sheathing 1/2" cdx min 8d at 6 inches oc at edge and 12 inches oc at all field areas. Edge nailing occurs over all supported edges, over last rafter aligned over exterior walls, over eave blocking as well as rafters

Floor Sheathing 3//" T.R.C. 10d ring shanks at 6 inches on at edge and 12 inches on at all field areas. Edge pailing occurs over all supported edges and over blocking and framing designated a collectors

All beams shall be stamped with identifying number, accompanied by a certificate od inspection by an approved ICBO testing laboratory and AITC, which shall be submitted to the Archtiect prior to delivery.

All surfaces shall be given one factory coat of moisture sealer and all cut ends coated with end sealer. Beams further cut at the job site shall have the cut surfaces sealed at the job site prior to installation.

All parallam (PSL), microlam (ML), or versallam beams (VSL)shall be as manufactured by Trus Joist MacMillanor equal and shall comly with FHA 689, FHA925, NER 119, NER 126 and NER 292.

Provide a pressure temperature relief valve to outside of all new waste heaters or water heaters to be relocated per CPC 2013 Edition. Provide pressure balance or thermostatic mixing valves at all new tubs and/or showers.

All work shall conform to the 2013 Editions of the California Building Code (CBC), the California Electical Code (CEC),

Concrete shall be regular weight hard rock type (150#/cf). Aggregate shall conform to ASTM C33, unless otherwise noted.

Contractor to test for the presence of any hazardous materials (including but not limited to asbestos and/or 12. Provide approved high-pressure device (hammer) for quick acting valves (at clothes washers, dishwashers) in the water supply line per CPC 2013 Edition.

**Custom Remodel and Renovation** 

**FOR** 

**Arvind and Bharti Goel** 

540 Rockport Drive Sunnyvale CA

Applicable Codes and Ordinances

CALIFORNIA BUILDING CODE **2013 EDITION CALIFORNIA FIRE CODE** CALIFORNIA MECHANICAL CODE 2013 EDITION CALIFORNIA PLUMBING CODE **2013 EDITION 2013 EDITION** CALIFORNIA ELECTRICAL CODE CALIFORNIA GREEN BLDG STANDARDS 2013 EDITION CALIFORNIA ENERGY CODE 2013 EDITION

Scope of Work

Add a ttotal of 738 SF on a single level to an existing single level home. The kitchen will be renovated as will three bathrooms (and one added bathroom). The Entry will be expanded and the Dining Room will be relocated.

PROJECT DATA

540 Rockport Drive Sunnyvale, CA

Owner

**ARCHITECT** 

CONTACT

JBARCH100@MSN.COM

CONTRACTOR

Zoning Lot Area Existing House **Existing Garage** 

**Existing Coverage** 738 S₩ New Living Area 3,168 SF

3,837 SF Proposed Coverage

> One Fire Sprinklers None

540 Rockport Drive Sunnyvale CA

> JOHN BARTON ARCHITECT 359 DE LEON AVENUE FREMONT CA 94539

JOHN BARTON 510 623 9861

TBS

3,793 SF Total Bldg 44 SF Covered Porch

42.0%

R-3/U Type of Construction

Arvind & Bharto Goel

ARCHITE

BARTON

JOHN

G

Bharti

and

vind

Building and Lot Information

9,129 SF 2,430 SF 3,055 SF Total Existing

General Bidding Notes

As stated in the General Notes (Sheet T-1) of the documents, it is imperative that the Contractor (and the relevant subcontractors) visit the job site prior to formulating their bid for the purpose of observing all relevant job-site conditions that may influence the project. The Contractor shall contact the owner directly for the purpose of coodinating access to the existing site and/or building. The expectations is that the Contractor will use his/her knowledge and experience to observe those conditions that might affect the cost of providing a complete, functional, and turen key project. Due to the nature of the competitive bidding process, the Contractor may be tempted to neglect these items when preparing his bid. Do not do so. Include the costs of those items in your bid as a separate line item. An example of how this may be formatted is given below (For illustration purposes only).

Fruit tree at rear yard Plans indicate that the addition will be located in the right rear corner of the existing house. There is currently a fruit tree in this area. Why Necessary This tree will have to be removed

\$500 to remove tree Alternate Action Owner to remove tree

Why Necessary Plans do not specifically indicate any upgrade to the existing furnace. However, due to the size of the addition, it may be necessary to replace the existing furnace with a new (larger/more efficient) unit

SHEET INDEX

T-1 Cover Sheet

A-2 Existing Floor Plan

A-4 Exterior Elevations

A-3 Proposed Floor Plan

A-1 Site Plan

A-5 Roof Plan

Plans ahow the location of the addition. However, in order to locate the new addition per plans, the existing water shut off valve will Why Necessary have to be relocated. The plans fo not indicate this.

\$450 to relocate valve. Alternate Action None

Alternate Action Utilize existing furnace (if allowed by code)

It is imprtant to note that these are just examples and there may be other possibel conditions that should be noted in the Contractor's bid. Contractor understands that unless they specifically note that an item is excluded from the scope of the work, they will be responsible for all material and labor necessary to complete the project, whether or not the item is specifically noted.

It is not uncommon for existing structures to have unexpected costs to remedy existing conditions, not readily observable. For example, the Archtiect did not crawl under the existing structure to recisely locate the existing foundation piers. The direction, size, and spacing of existing framing members may be assumed but is always subject to field verification once demolition is underway. The adequacy of the existing framing cannot be fully known until it is fully exposed. For this reason it is imperative that the Contractor/Bidder notify the Archtiect should any condtions be exposed that may require additional work to disucss possible solutions. If any of the solutions proposed result in an addictional cost to the Owner, the Contractor shall obtain Owner approval prior to proceeding. If the Contractor does not consult with the Archtiect regarding possible solutions, the Architect will assume no liability for the sucess/failure or cost of implementing these changes.

It is possible that there may be some conflicting conditions on he Documents, between what is depicted on the documents and the existing conditions. For example, a beam shown on the Floor Framing Plan may indicate a 4x12 DF #1 while a detail may indicate a 3 1/2" by 11 1/4" PSL. In such cases, the stricter interpretation shall prevail. In the case indicated above, the Contractor should assume the beam to be the PSL, not the DF. In these instances, contact the Archtiect for clarification as soon as the conflict is discovered. The Archtiect assumes no liability for correcting similar situations if the Contractor does not

The Contractor's bid should detail a process or procedure for the removal/sealing/disposal of any hazardous materials that may be present on the job site

Tile Council of North America: Handbook for Ceramice Tile Installations. Master Painters Institute; Archtiectural Painting Specification Manual

NA Drawn B

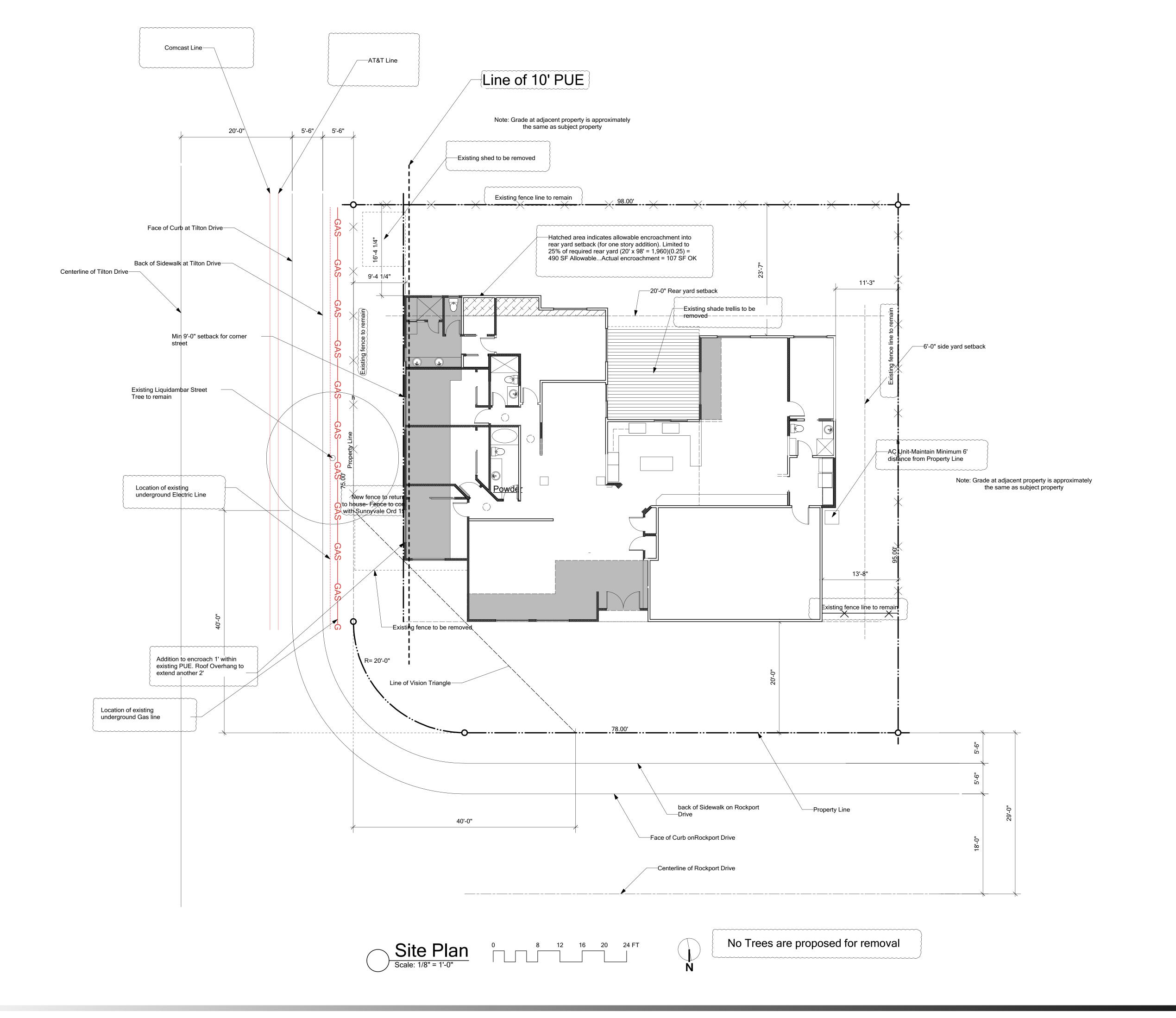
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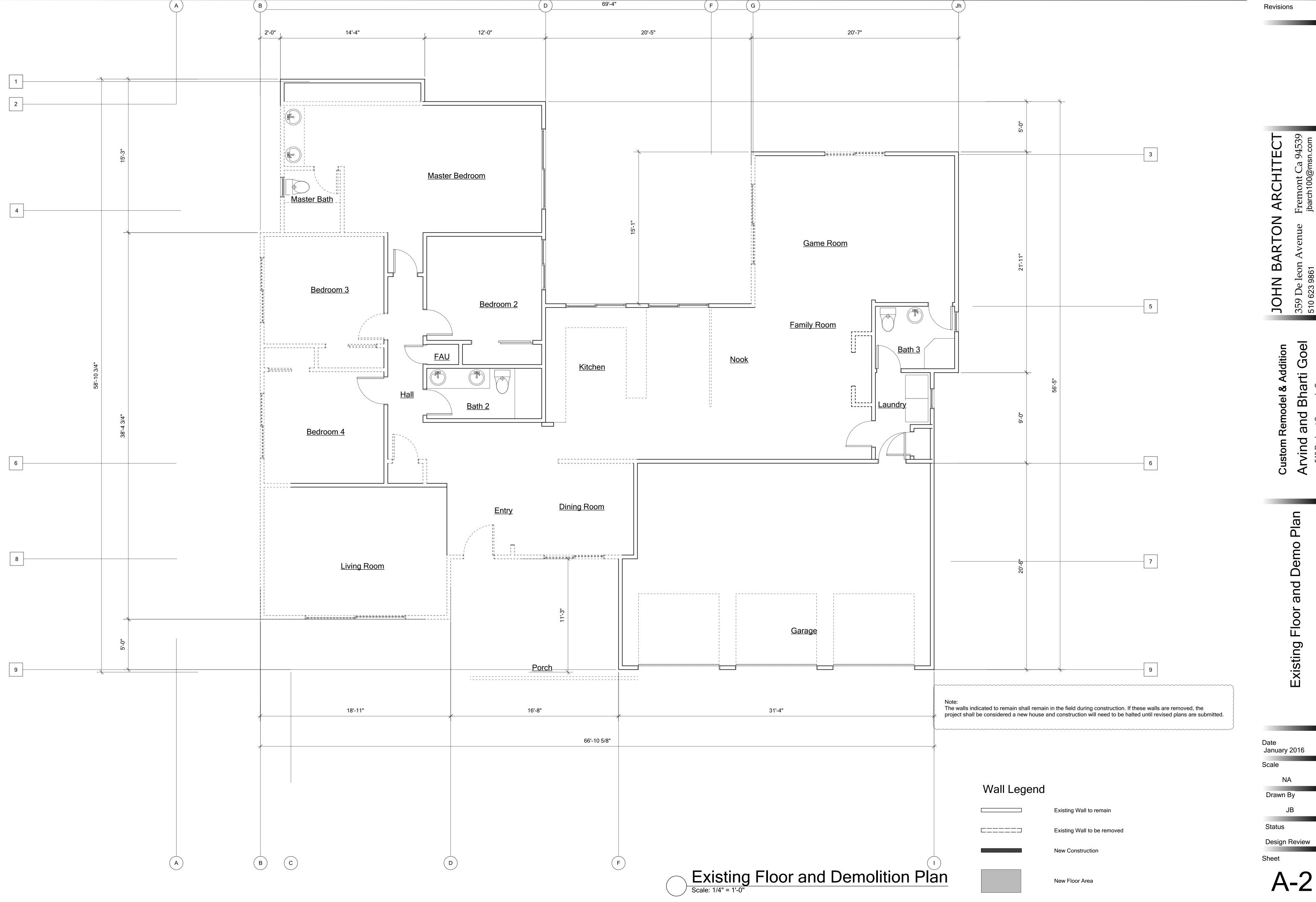
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Design Review
Sheet

A-1

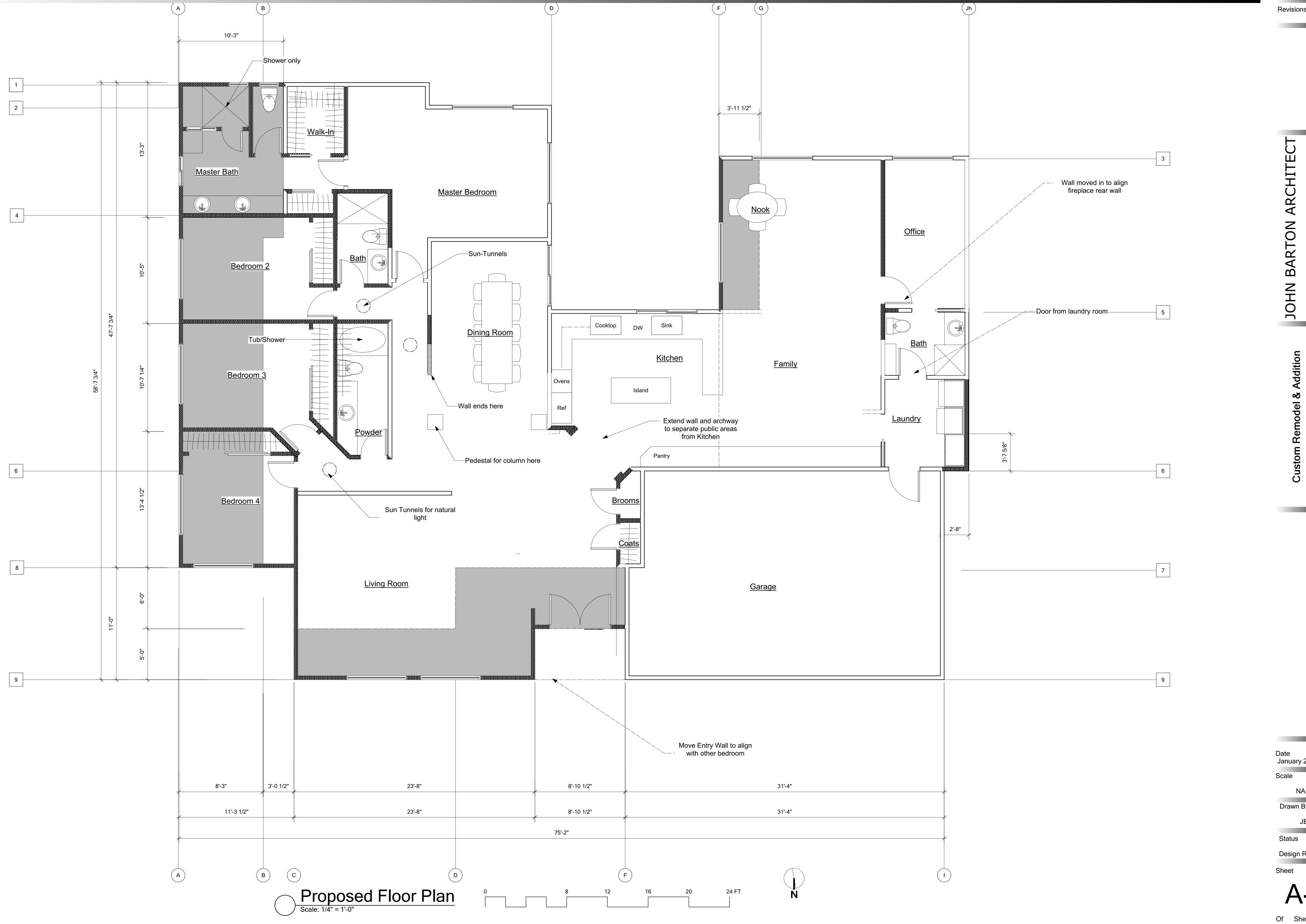
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Date January 2016

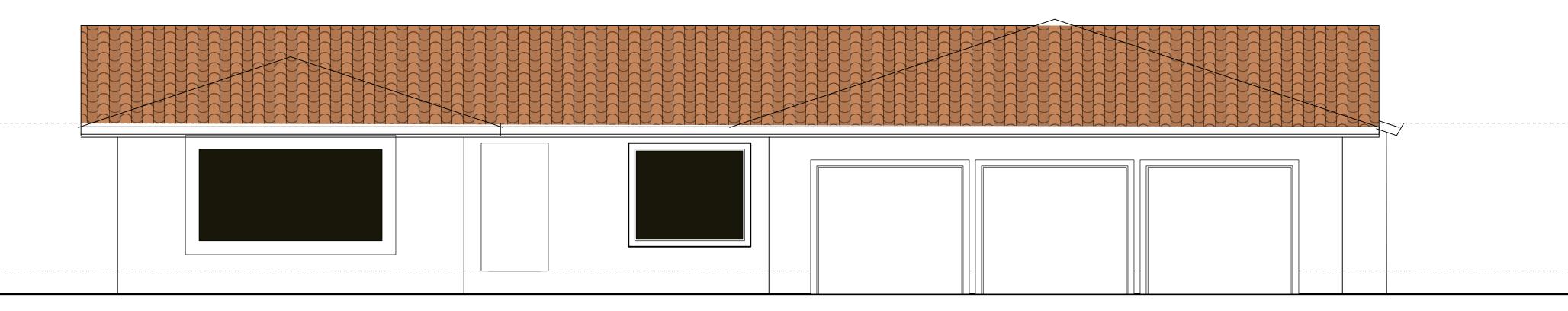
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Revisions

JOHN BARTON A 359 De Jeon Avenue F 510 623 9861 jt



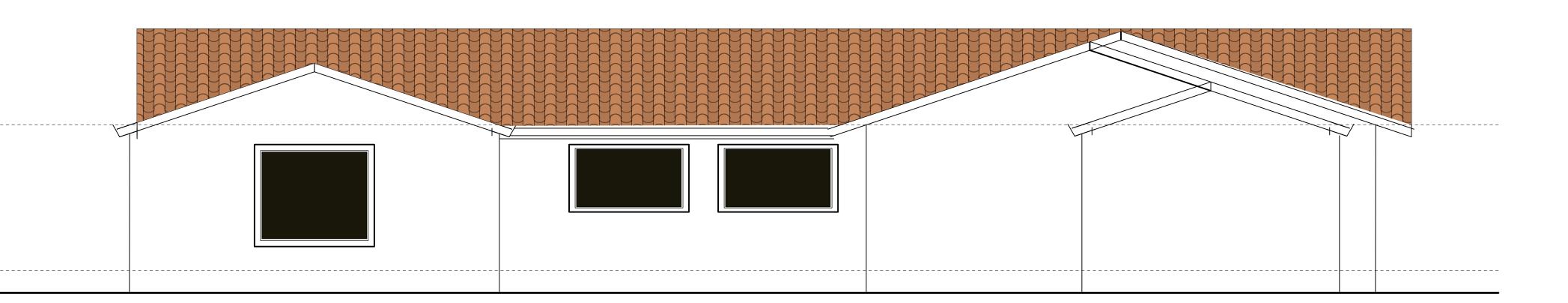


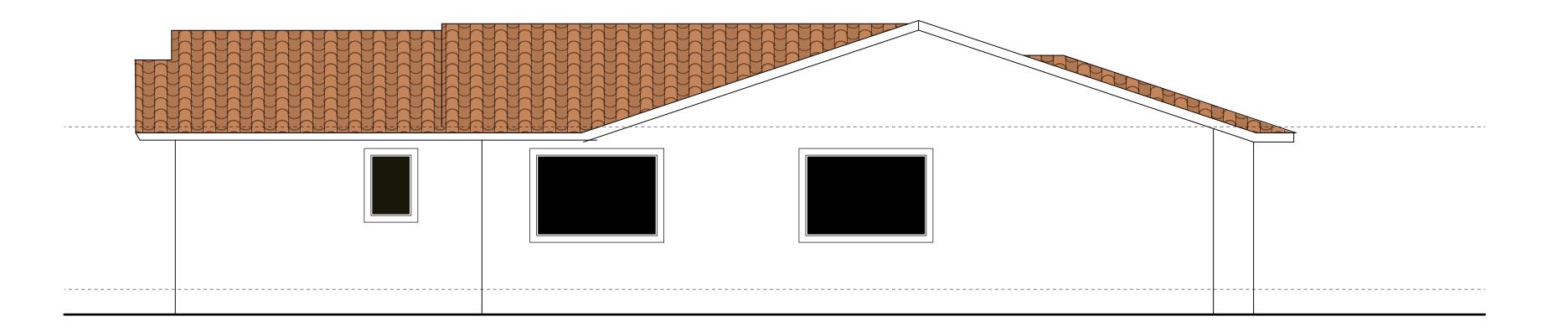
Existing Front Elevation

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

Existing Right Side Elevation

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





Existing Rear Elevation

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

January 2010 Scale

Drawn By

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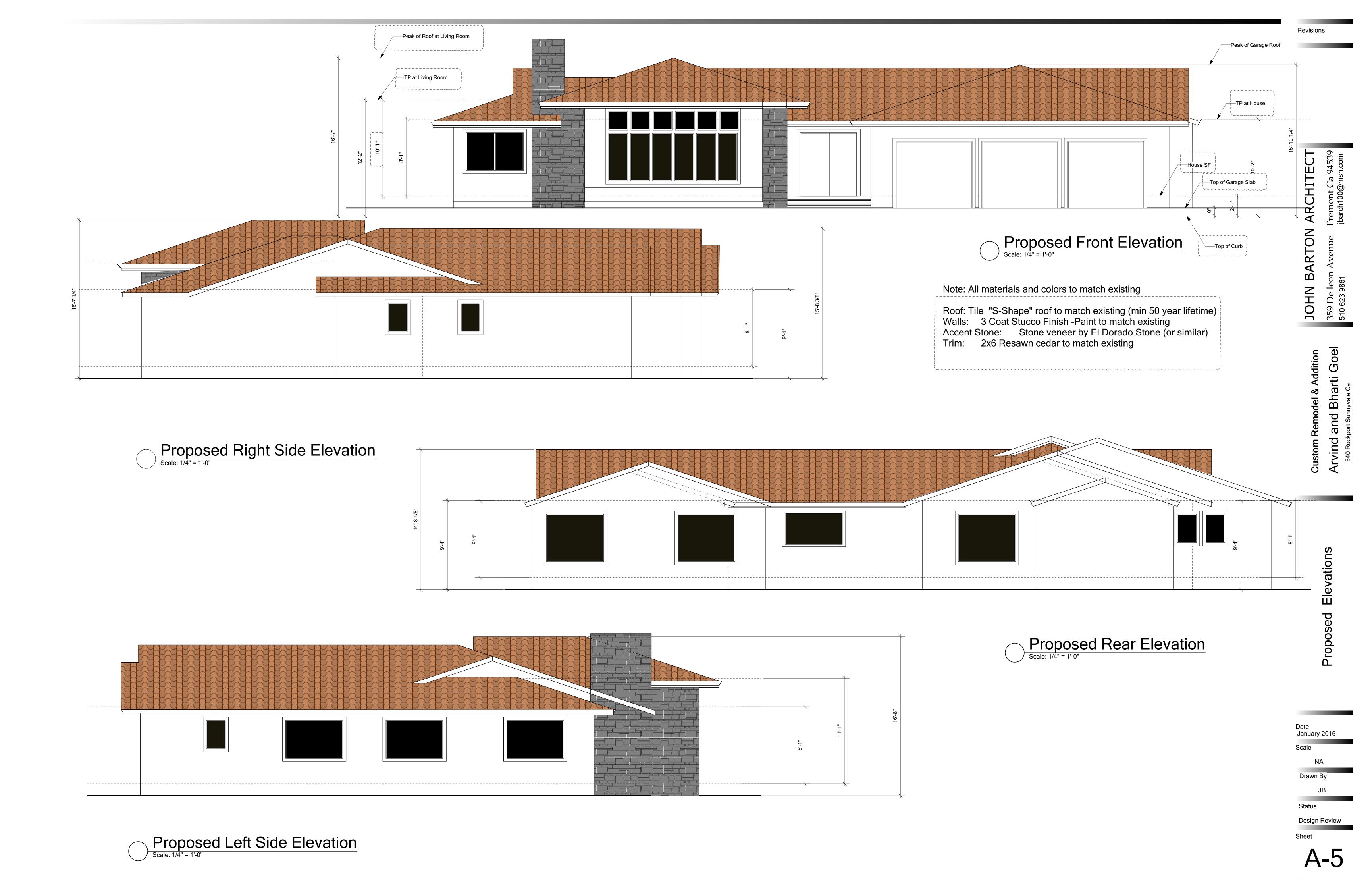
Status Design Review

A-4

Existing Left Side Elevation

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

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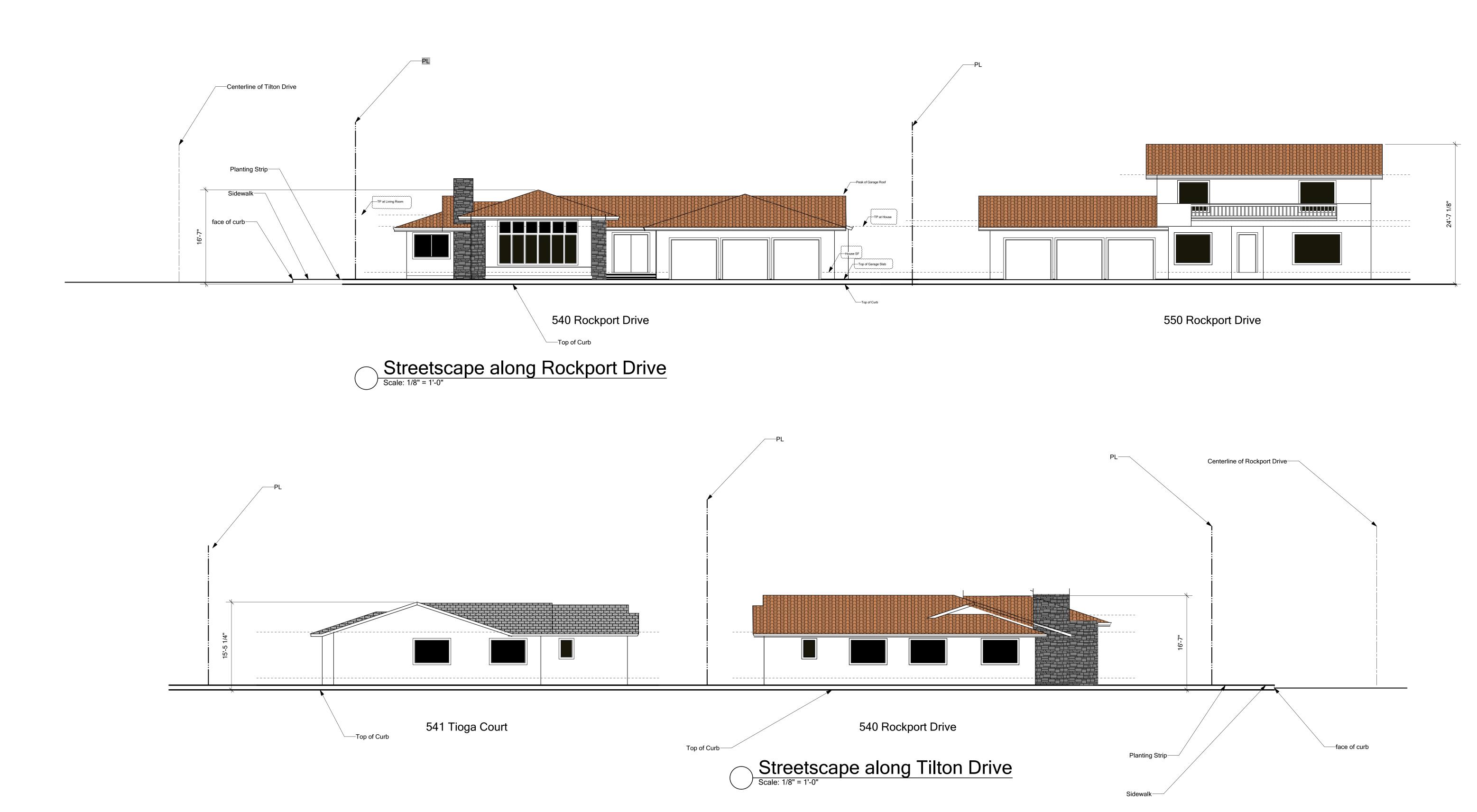
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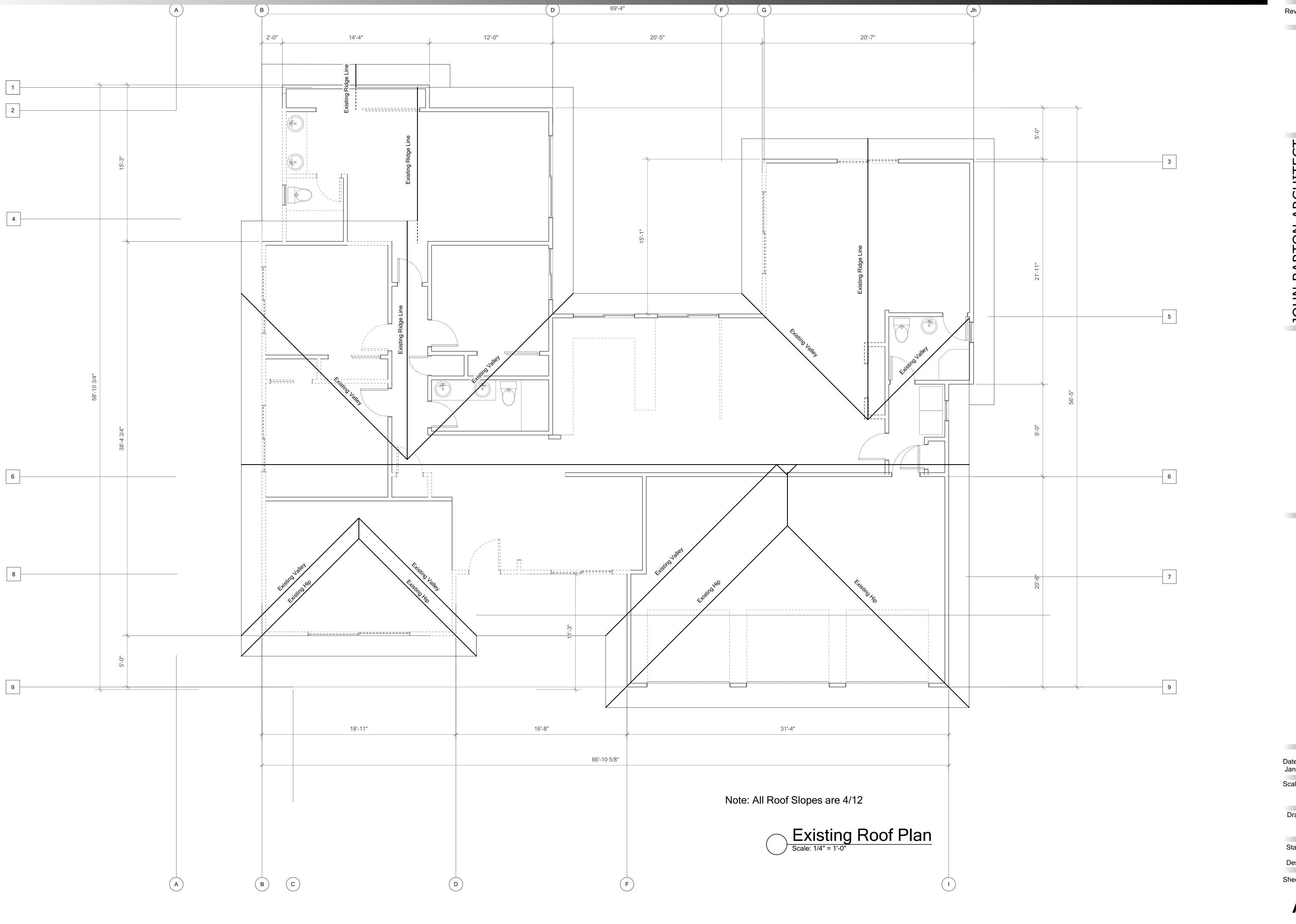
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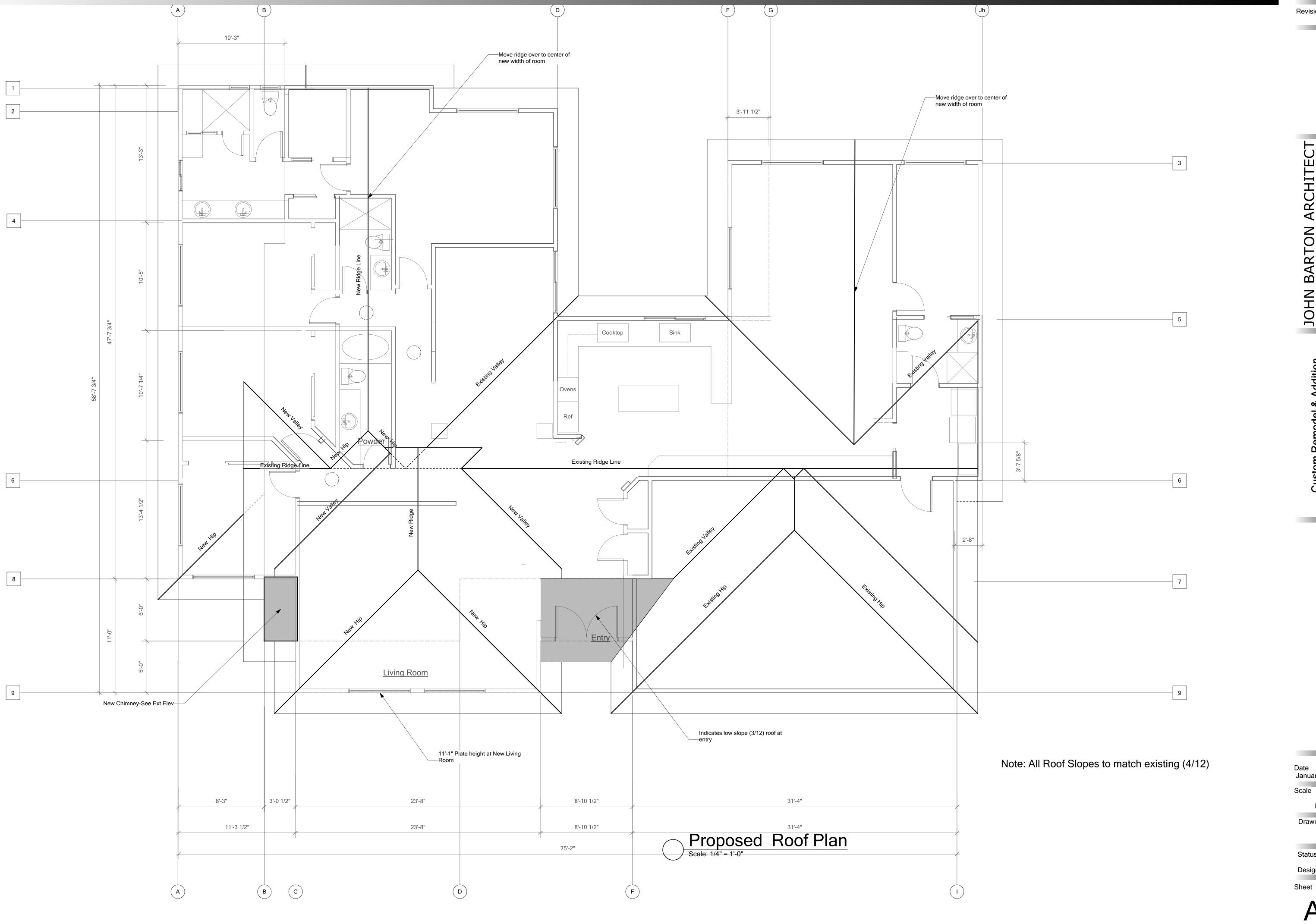
Status

Design Review

A-6







Date January 2016