

Staff Report to the Zoning Administrator

Application Number: 221217

Applicant: Michael Helm Agenda Date: November 18, 2022

Owner: Alex Vecchiet
APN: 027-103-19
Agenda Item #:
Time: After 9:00 a.m.

Site Address: 380 7th Avenue, Santa Cruz

Project Description: Proposal to construct a two-story addition of approximately 774 square feet of new floor area to an existing single-family dwelling on-site with an existing 418 square foot accessory dwelling unit (ADU). Requires a Coastal Development Permit, Minor Exception to exceed the 50 percent floor area ratio (FAR) requirement to 54.7 percent, and a Minor Exception to exceed the 40 percent lot coverage requirement to 49.7 percent.

Location: The property is located on the east side of 7th Avenue at its intersection with Dolores Street (380 7th Avenue) in Santa Cruz.

Permits Required: Coastal Development Permit & Minor Exceptions

Supervisorial District: First District (District Supervisor: Manu Koenig)

Staff Recommendation:

- Determine that the proposal is exempt from further Environmental Review under the California Environmental Quality Act.
- Approval of Application 221217, based on the attached findings and conditions.

Setting & Project Description

The subject property is located on the east side of 7th Avenue at its intersection with Dolores Street, in the Harbor Area Special Community of the Live Oak Planning Area. The property is accessed via Dolores Street which runs along the northern property boundary. To the east, at the rear of the property, there is a "paper-alley" that extends mid-block from Dolores Street at the north to Carmel Street at the south. The alley exists legally in that it has never been formally abandoned and is shown on the Assessor's Parcel Map, but twelve of the twenty parcels on the subject block have split the alley for expanded rear yards and many structures, fences, and landscaping have been located in the alley over the years.

The Harbor Area Special Community is an area characterized by small parcels developed with a wide variety of one- and two-story homes, including older structures from the early part of the 20th Century. Where new homes or additions have been constructed or where older homes have

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been remodeled and upgraded, most of this development conforms to some degree to the special design criteria for the Harbor Area Special Community as set out in the Local Coastal Program. The majority of buildings, including those on the subject parcel, exhibit characteristics of older dwellings in the area, are small in scale, have clean lines, pitched roofs, and are constructed to include wood siding or exterior materials that resemble wood.

The property is developed with an existing one-story 752 square foot single-family dwelling containing two bedrooms and one bathroom, a detached garage, and an existing 419 square foot Accessory Dwelling Unit (ADU) located over the garage.

The project includes constructing a two-story addition of approximately 774 square feet of new floor area to the single-family dwelling. On the first story, the addition would consist of a new entry, kitchen, and dining room of approximately 387.5 square feet. On the second story, the addition would consist of a new bedroom, bathroom, and walk-in closet of approximately 378.5 square feet. Though the completed residence would be larger than the existing home, the project would not result in a net increase in the number of bedrooms. At completion, the project would result in a two-story residence measuring approximately 1,526 square feet containing two bedrooms and three bathrooms.

The project would remove a large hedge wrapping along portions of the 7th Avenue and Dolores Street frontages, as well as a palm tree located near the corner of 7th Avenue and Dolores Street measuring approximately 14 inches diameter at breast height (d.b.h). The removed palm tree would be replaced with two crape myrtle trees to be planted along the Dolores Street frontage.

A Coastal Development Permit is required to construct an addition of more than 500 square feet in the Coastal Zone.

A Minor Exception is required to exceed the 50 percent floor area ratio (FAR) requirement to 54.7 percent, and a Minor Exception is required to exceed the 40 percent lot coverage requirement to 49.7 percent.

Project Background

The existing home was constructed on the parcel in 1933 and the detached garage was constructed in 1937 prior to zoning requirements and is nonconforming to setbacks.

Building Permit No. 0049056M-00136413 was finalized on January 12, 2004, recognizing the 419 square foot ADU located above the detached garage.

Zoning & General Plan Consistency

The subject property is a 3,000 square foot lot, located in the R-1-3.5 (Single Family Residential - 3,500 square feet) zone district, a designation which allows residential uses. The proposed addition to an existing single family dwelling is permitted within the zone district and the zoning is consistent with the site's R-UH (Urban High Density Residential) General Plan designation.

The site standards for the R-1-3.5 zone district for the subject lot are demonstrated in the chart below:

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	R-1-3.5 Site Standards	Existing	Proposed
Front yard setback (7 th Ave)	15'	About 11'3"	No Change
Front yard setback (alley)	15'	0'	No Change
Street side yard setback (Dolores St)	10'	0'	6'8"
Side yard setback (interior)	5'	About 7'	5'
Maximum height	28'	About 13'6" (SFD) About 21'4" (ADU)	About 22'8" (SFD) No Change (ADU)
Maximum lot coverage	40%	41.4%	49.7%
Maximum FAR	50%	28.9%	54.7%
Maximum number of stories	2	1 (SFD) 2 (ADU)	2 SFD No Change - ADU
Parking (2 Bedroom SFD, ADU)	3 spaces required, 0 existing ADU	1 space in garage	No Change
Minimum distance to garage entrance (from edge of R/W)	20'	About 4'7"	No Change

The lot fronts on three different rights-of-way, these are: 7th Avenue to the west, Dolores Street to the north, and a "paper" alleyway to the east; thus, the lot qualifies as a "double-frontage" lot with front yard setbacks of 15 feet as measured from both 7th Avenue as well as from the unnamed alley at the east. The frontage adjacent to Dolores Street qualifies as a 10-foot street side yard setback, and the interior five-foot setback is applied on the opposite side of the lot from Dolores Street.

The existing home is nonconforming in that the existing structure encroaches into required setbacks. The proposed addition would meet all setback requirements and would be fully contained within the buildable area of the lot. Additionally, an existing portion of the home (an existing laundry/utility room) that currently encroaches into the 10-foot street side yard setback fronting on Dolores Street, would be demolished up to the existing north wall of the residence, thus reducing the overall encroachment of the home into the street side yard setback. The project would then result in a more conforming home in regard to setbacks, and no increase in any nonconforming dimension of the existing dwelling is proposed.

Although the existing home meets other site and development standards, it does not conform to the required front setback or the street side yard setback. The dwelling is therefore a nonconforming structure. The existing ADU/garage accessory structure on the parcel is also a nonconforming structure in that it does not conform to minimum required distance to the garage entrance, the street side yard setback, or the front yard setback as measured from the alley at the rear of the lot.

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As set out in County Code Section 13.10.262 – "Nonconforming Structures", structural alterations may be made to an existing nonconforming structure where such modifications do not constitute reconstruction, which is defined by County Code Section 13.10.260(B)(6) as modifications that alter 65 percent or more of the major structural components. Additionally, conforming additions that do not increase the nonconforming dimensions of the structure may be constructed, subject only to the issuance of a building permit. A Modifications Worksheet has been submitted by the Applicant indicating that neither the proposed remodel of the dwelling nor the accessory structure will result in a greater than 65 percent modification to these existing structures. In addition, the proposed addition will conform to all required site and development standards for the zone district other than lot coverage and floor area ratio requirements, for which findings for Minor Exceptions can be made.

The lot is also nonconforming in regard to parking, in that only one parking space exists on the parcel – located within the garage. For the reason that the proposed addition would not add any additional bedrooms, additional parking spaces are not required to be provided on the lot. It is noted however, that the project would construct a new four-foot-wide sidewalk with curb and gutter along Dolores Street, which will result in improved neighborhood walkability and onstreet parking functionality.

Minor Exceptions – Lot Coverage and FAR

Pursuant to County Code Section 13.10.235, a Minor Exception may be granted for up to a 10 percent increase in the total allowable 40 percent lot coverage for lots 6,000 square feet or less, allowing up to 50 percent total lot coverage subject to findings required per County Code Section 13.10.230(C). The proposed increase of the lot coverage requirement to 49.7% is within the 10 percent allowance to qualify for a Minor Exception per County Code Section 13.10.235.

Similarly, a Minor Exception may be granted for up to a 7.5 percent increase in the total allowable 50 percent FAR for lots 4,000 square feet or less, allowing up to 57.5 percent total FAR subject to findings required per County Code Section 13.10.230(C). An increase of the lot coverage requirement to 54.7% is within the 7.5 percent allowance to qualify for a Minor Exception per County Code Section 13.10.235.

It is noted that the floor area, totaling 419 square feet, associated with the ADU is exempt from the calculation of lot area and FAR per County Code Section 13.10.681(D)(7)(c)(i).

Design Review & Harbor Area Special Community

The proposed addition to the single family dwelling complies with the requirements of the County Design Review Ordinance, in that the proposed project will incorporate site and architectural design features such as incorporating a pitched roof and concentrating the massing of the addition within the middle of the lot to reduce the visual impact of the proposed development on surrounding land uses and the natural landscape.

The subject property is located within the Harbor Area Special Community. Parcels within the Harbor Area Special Community shall incorporate the characteristics of older dwellings in the area and shall be of smaller scale with clean lines, pitched roofs, and wood-type siding materials. The proposed addition will be consistent with the architectural and design styles of residences

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within the surrounding neighborhood and will include clean lines, a pitched roof, and wood-type (fiber cement) siding materials.

Local Coastal Program Consistency

The proposed addition to the existing single family dwelling is in conformance with the County's certified Local Coastal Program, in that the structure is sited and designed to be visually compatible, in scale with, and integrated with the character of the surrounding neighborhood. Developed parcels in the area contain single family dwellings. Size and architectural styles vary in the area, and the design submitted is consistent with the existing range of styles. The project site is not located between the shoreline and the first public road and is not identified as a priority acquisition site in the County's Local Coastal Program. Consequently, the proposed project will not interfere with public access to the beach, ocean, or other nearby body of water.

Conclusion

As proposed and conditioned, the project is consistent with all applicable codes and policies of the Zoning Ordinance and General Plan/LCP. Please see Exhibit "B" ("Findings") for a complete listing of findings and evidence related to the above discussion.

Staff Recommendation

- Determine that the proposal is exempt from further Environmental Review under the California Environmental Quality Act.
- APPROVAL of Application Number 221217, based on the attached findings and conditions.

Supplementary reports and information referred to in this report are on file and available for viewing at the Santa Cruz County Planning Department, and are hereby made a part of the administrative record for the proposed project.

The County Code and General Plan, as well as hearing agendas and additional information are available online at: www.sccoplanning.com

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Exhibits

- A. Categorical Exemption (CEQA determination)
- B.
- Findings Conditions C.
- Project plans D.
- Assessor's, Location, Zoning and General Plan Maps E.
- Parcel Information F.

CALIFORNIA ENVIRONMENTAL QUALITY ACT NOTICE OF EXEMPTION

The Santa Cruz County Planning Department has reviewed the project described below and has determined that it is exempt from the provisions of CEQA as specified in Sections 15061 - 15332 of CEQA for the reason(s) which have been specified in this document.

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Assessor Parcel Number: 027-103-19

Project Location: 380 7th Avenue, Santa Cruz
Project Description: Proposal to construct a two-story addition of approximately 774 square feet of new floor area to an existing one-story single-family dwelling on-site with an existing 418 square foot ADU.
Person or Agency Proposing Project: Michael Helm
Contact Phone Number: 831-476-5386
 A The proposed activity is not a project under CEQA Guidelines Section 15378. B The proposed activity is not subject to CEQA as specified under CEQA Guidelines Section 15060 (c). C Ministerial Project involving only the use of fixed standards or objective measurements without personal judgment. D Statutory Exemption other than a Ministerial Project (CEQA Guidelines Section 15260 to 15285).
E. X Categorical Exemption
Specify type: Class 1 - Existing Facilities (Section 15301)
F. Reasons why the project is exempt:
The Class 1 Exemption includes additions to residential structures located within a residential neighborhood.
In addition, none of the conditions described in Section 15300.2 apply to this project.
Jonathan DiSalvo, Project Planner

Coastal Development Permit Findings

1. That the project is a use allowed in one of the basic zone districts that are listed in LCP Section 13.10.170(D) as consistent with the LCP Land Use Plan designation of the site.

This finding can be made, in that the property is zoned R-1-3.5 (Single Family Residential - 3,500 square feet), a designation which allows residential uses. The proposed addition to an existing single family residential dwelling is permitted within the zone district, and the zoning is consistent with the site's R-UH (Urban High Density Residential) General Plan designation.

2. That the project does not conflict with any existing easement or development restrictions such as public access, utility, or open space easements.

This finding can be made, in that no such easements or restrictions are known to encumber the project site. Additionally, the project would not construct any new structures or propose any modifications to structures within the paper alley.

3. That the project is consistent with the design criteria and special use standards and conditions of this chapter pursuant to SCCC 13.20.130 and 13.20.140 et seq.

This finding can be made, in that the proposed addition to the existing dwelling will result in a small-scale home that will include characteristics of older dwellings in the surrounding neighborhood as well as other newer or remodeled homes. As required by the special design criteria for the Harbor Area Special Community, the remodeled and expanded dwelling will have clean lines, a pitched roof, and will be utilize siding materials that resemble wood. The dwelling will be integrated with the character of the surrounding neighborhood, and the design submitted for the proposed addition is consistent with the existing range of architectural styles. The site is surrounded by lots developed to an urban density; the colors will be complementary to the site and neighborhood; and the development site is not on a prominent ridge, beach, or bluff top. Although the proposed addition will result in an increased overall height of the home, the project will not have a significantly different visual impact than the existing home on the parcel or other two-story homes in the neighborhood.

4. That the project conforms with the public access, recreation, and visitor-serving policies, standards and maps of the LCP Land Use Plan, including Chapter 2: Section 2.5 and Chapter 7.

This finding can be made, in that the project site is not identified as a priority acquisition site in the County Local Coastal Program and public beach access is available at Twin Lakes State Beach.

5. That the project conforms to all other applicable standards of the certified LCP.

This finding can be made, in that the structure is sited and designed to be visually compatible and integrated with the character of the surrounding neighborhood. Additionally, residential uses are permitted in the R-1-3.5 (Single Family Residential - 3,500 square feet) zone district, as well as the General Plan and Local Coastal Program land use designation. Developed parcels in the area contain two-story single-family dwellings. Size and architectural styles vary in the area, and the

design submitted is consistent with the pattern of development within the surrounding neighborhood. Further, the addition will result in a small-scale single-family structure that will retain many of the characteristics of the original older dwellings in the neighborhood. As required by the special design criteria for the Harbor Area Special Community, the proposed addition will result in a home with clean lines, a pitched roof, and will utilize siding materials that resemble wood.

6. If the project is located between the nearest through public road and the sea or the shoreline of any body of water located within the Coastal Zone, that the project conforms to the public access and public recreation policies of Chapter 3 of the Coastal Act.

This finding can be made, in that the project site is not located between the shoreline and the first public road. Consequently, the addition to the existing single family dwelling will not interfere with public access to the beach, ocean, or any nearby body of water. Further, the project site is not identified as a priority acquisition site in the County Local Coastal Program.

Residential Development Permit Findings

1. That the proposed location of the project and the conditions under which it would be operated or maintained will not be detrimental to the health, safety, or welfare of persons residing or working in the neighborhood or the general public, and will not result in inefficient or wasteful use of energy, and will not be materially injurious to properties or improvements in the vicinity.

This finding can be made, in that the project is located in an area designated for residential uses. Construction will comply with prevailing building technology, the California Building Code, and the County Building ordinance to ensure the optimum in safety and the conservation of energy and resources.

2. That the proposed location of the project and the conditions under which it would be operated or maintained will be consistent with all pertinent County ordinances and the purpose of the zone district in which the site is located.

This finding can be made, in that the proposed location of the addition to the single-family dwelling and the conditions under which it would be operated or maintained will be consistent with all pertinent County ordinances and the purpose of the R-1-3.5 (Single Family Residential - 3,500 square feet) zone district as the primary use of the property will continue to be one single-family dwelling. The proposed addition will meet all current site standards for the zone district save for Minor Exceptions to lot coverage and FAR standards for which required findings have been made.

The subject property is located within the Harbor Area Special Community. New residential development within the Harbor Area Special Community (as specified in County Code Section 13.20.144(B)) shall incorporate the characteristics of older dwellings in the area (e.g., small scale, clean lines, pitched roofs, predominately wood construction, wood or wood-like (including cementitious) siding, or shingles that resemble wood). The proposed addition will be consistent with the design requirements of the Harbor Area Special Community.

3. That the proposed use is consistent with all elements of the County General Plan and with any specific plan which has been adopted for the area.

This finding can be made, in that the proposed residential use is consistent with the use and density requirements specified for the R-UH (Urban High Density Residential) land use designation in the County General Plan.

The proposed addition to the existing single family dwelling will not adversely impact the light, solar opportunities, air, and/or open space available to other structures or properties and meets all current site and development standards for the zone district as specified in Policy 8.1.3 (Residential Site and Development Standards Ordinance), in that the single family dwelling will not adversely shade adjacent properties The proposed addition will meet all current site standards for the zone district save for Minor Exceptions to lot coverage and FAR standards for which required findings have been made.

The proposed addition to the existing single family dwelling will be properly proportioned to the parcel size and the character of the neighborhood as specified in General Plan Policy 8.6.1 (Maintaining a Relationship Between Structure and Parcel Sizes), in that the proposed addition will comply with the site standards for the R-1-3.5 zone district (other than lot coverage and FAR for which findings for Minor Exceptions have been made) and will result in a structure consistent with a design that could be approved on any similarly sized lot in the vicinity.

A specific plan has not been adopted for this portion of the County. The proposed addition will be consistent with the design requirements of the Harbor Area Special Community.

4. That the proposed use will not overload utilities, and will not generate more than the acceptable level of traffic on the streets in the vicinity.

This finding can be made, in that the proposed addition to the existing single-family dwelling is to be constructed on an existing developed lot. The addition would not increase the existing level of traffic. The expected level of traffic generated by the existing single-family dwelling and ADU is estimated to remain at only two peak trips per day (one peak trip per dwelling unit). The addition is not anticipated to increase traffic thus the project would not adversely impact existing roads or intersections in the surrounding area. It is noted that the project would construct a new four-foot-wide sidewalk with curb and gutter along Dolores Street, which will result in improved neighborhood walkability and on-street parking functionality.

5. That the proposed project will complement and harmonize with the existing and proposed land uses in the vicinity and will be compatible with the physical design aspects, land use intensities, and dwelling unit densities of the neighborhood.

This finding can be made, in that the existing single-family dwelling is located in a mixed neighborhood containing a variety of architectural styles, and the proposed addition is consistent with the architecture of the main home and the land use intensity and density of the neighborhood. The proposed addition will also be consistent with the design requirements of the Harbor Area Special Community.

6. The proposed development project is consistent with the Design Standards and Guidelines (sections 13.11.070 through 13.11.076), and any other applicable requirements of this chapter.

This finding can be made, in that the proposed addition will be of an appropriate scale and type of design that will enhance the aesthetic qualities of the surrounding properties and will not reduce or visually impact available open space in the surrounding area. Additionally, the addition will meet the five-foot interior side yard setback on the south side of the lot. The neighboring one-story single-family residence to the south of the subject property at 370 7th Avenue is located approximately 10 feet south of the shared property line between the two properties; therefore, the neighboring home would be separated by approximately 15 feet from the proposed two-story addition on the subject lot. This separation would minimize any impacts to light, air, and privacy on the neighboring parcel.

Minor Exception Findings

1. That because of special circumstances applicable to the property, including size, shape, topography, location, and surrounding existing structures, the strict application of the Zoning Ordinance deprives such property of privileges enjoyed by other property in the vicinity and under identical zoning classification.

This finding can be made, in that the subject lot is constrained in regard to size. The subject parcel measures approximately 3,049 square feet in size (less than the 3,500 square foot minimum for the R-1-3.5 zone district), thus granting a Minor Exception for the proposed 9.7 percent increase in lot coverage to 49.7 percent, and 4.7 percent increase of FAR to 54.7 percent, would be allowable per County Code Section 13.10.235.

2. That the granting of the minor exceptions will be in harmony with the general intent and purpose of zoning objectives and will not be materially detrimental to public health, safety, or welfare or injurious to property or improvements in the vicinity.

This finding can be made, in that the proposed addition will not adversely impact the light, solar opportunities, air, and/or open space available to other structures or properties and would meet all current site and development standards for the zone district except for minor increases in lot coverage and FAR for which findings for Minor Exceptions can be made. The proposed addition is not expected to be materially detrimental to public health safety or welfare, or injurious to property or improvements in the vicinity. The addition would be located approximately 15 feet way from the nearest residence.

The project is located in an area designated for residential uses. Construction will comply with prevailing building technology, the California Building Code, and the County Building ordinance to insure the optimum in safety and the conservation of energy and resources.

3. That the granting of such minor exceptions shall not constitute a grant of special privileges inconsistent with the limitations upon other properties in the vicinity and zone in which such is situated.

This finding can be made, in that the proposed location of the addition and the conditions under which it would be operated or maintained will be consistent with all pertinent County ordinances and the purpose of the R-1-3.5 (Single-Family Residential – 3,500 square foot minimum) zone district. The granting of minor exceptions for lot coverage and FAR would allow a substandard, constrained lot to enjoy privileges shared by other properties in the same zone district. Due to the physical constraints of the subject lot, granting the minor exceptions will not constitute a grant of special privileges inconsistent with the limitations upon other properties in the same zone district.

4. That there is no increase in stormwater leaving the property as a result of additional impermeable area created by a minor increase in lot coverage. The project as approved incorporates measures or conditions that direct runoff to the landscape, use permeable paving material, reduce existing impermeable area, or incorporate other low impact drainage design practices to control any increase in stormwater runoff.

This finding can be made, in that the project has been reviewed by the Stormwater Management Division of the Community Development and Infrastructure Department, and as conditioned, will meet all applicable requirements pertaining to stormwater management. The design also utilizes permeable pavers along the Dolores Street frontage, and in the home's backyard. Additionally, the project would construct a new four-foot-wide sidewalk with curb and gutter along Dolores Street, which will result in improved off-site stormwater management along Dolores Street.

Conditions of Approval

Exhibit D: Project plans, prepared by Michael Helm, dated May 3, 2022.

- I. This permit authorizes the construction of an addition to an existing single-family dwelling as indicated on the approved Exhibit "D" for this permit. This approval does not confer legal status on any existing structure(s) or existing use(s) on the subject property that are not specifically authorized by this permit. Prior to exercising any rights granted by this permit including, without limitation, any construction or site disturbance, the applicant/owner shall:
 - A. Sign, date, and return to the Planning Department one copy of the approval to indicate acceptance and agreement with the conditions thereof.
 - B. Obtain a Demolition Permit from the Santa Cruz County Building Official.
 - C. Obtain a Building Permit from the Santa Cruz County Building Official.
 - 1. Any outstanding balance due to the Planning Department must be paid prior to making a Building Permit application. Applications for Building Permits will not be accepted or processed while there is an outstanding balance due.
 - D. Obtain an Encroachment Permit from the Department of Public Works for all offsite work performed in the County road right-of-way.
- II. Prior to issuance of a Building Permit the applicant/owner shall:
 - A. Submit final architectural plans for review and approval by the Planning Department. The final plans shall be in substantial compliance with the plans marked Exhibit "D" on file with the Planning Department. Any changes from the approved Exhibit "D" for this development permit on the plans submitted for the Building Permit must be clearly called out and labeled by standard architectural methods to indicate such changes. Any changes that are not properly called out and labeled will not be authorized by any Building Permit that is issued for the proposed development. The final plans shall include the following additional information:
 - 1. A copy of the text of these conditions of approval incorporated into the full-size sheets of the architectural plan set.
 - 2. One elevation shall indicate materials and colors as they were approved by this Discretionary Application. If specific materials and colors have not been approved with this Discretionary Application, in addition to showing the materials and colors on the elevation, the applicant shall supply a color and material sheet in 8 1/2" x 11" format for Planning Department review and approval.

- 3. Grading, drainage, and erosion control plans.
- 4. The building plans must include detailed elevations and cross-sections which clearly depict the total height of the proposed structure. Maximum height is 28 feet.
- 5. Details showing compliance with fire department requirements. If the proposed structure(s) are located within the State Responsibility Area (SRA) the requirements of the Wildland-Urban Interface code (WUI), California Building Code Chapter 7A, shall apply.
- B. Meet all requirements of the County Public Works Division, Stormwater Management Section, including the following:
 - 1. This project proposal includes a sump pump for a subsurface drainage system due to high groundwater levels and space constraints on the subject property. In coordination with civil improvements plans for the right-of-way, the project civil engineer shall evaluate a safe discharge location and flow path for the groundwater sump pump. Please evaluate that the flow path will not adversely impact the pedestrian pathway.
 - 2. The final geotechnical approval letter shall include health and safety justifications for why a sump pump is needed for this project.
 - 3. Drainage fees will be assessed on the net increase in impervious area.
- C. Meet all requirements of the County Public Works Division, Road Engineering Section, including the following:
 - 1. Plans prepared by a civil engineer shall be submitted for improvements in the County right-of-way for review and approval by the Road Engineering Section.
 - 2. The sidewalk driveway wraparound on Dolores Street may be 3 feet wide.
- D. Meet all requirements of the Santa Cruz Water District.
- E. Meet all requirements of the Santa Cruz County Sanitation District including the following:
 - 1. Project shall satisfy all Santa Cruz County Sanitation District Code, County Design Criteria, and Santa Cruz County Code requirements and pay all sanitary sewer fees. Prior to building permit issuance, the private sanitary sewer lateral shall be video inspected and submitted to the District for review. District identified defects to the private sewer lateral shall be repaired and included as part of this applications scope of work. Plans shall show the approximate location of the existing private sewer lateral and how the proposed improvements are compliant with District code.

- F. Meet all requirements of the Environmental Planning Section of the Planning Division, including the following:
 - 1. A signed and stamped copy of the accepted soils report and update(s) shall be provided.
 - 2. Building Permit plans shall reference the soils report and update(s), include contact information for the geotechnical engineer, and include a statement that the project shall conform to the recommendations of the geotechnical engineer.
 - 3. Building Permit plans shall clearly represent all proposed grading, including any overexcavation and recompaction as recommended by the geotechnical engineer.
 - 4. The applicant shall submit a stormwater pollution control plan that meets the requirements set forth in the County's Construction Site Stormwater Pollution Control BMP Manual, available here: http://www.sccoplanning.com/Portals/2/County/Planning/env/ConstructionStormwaterBMPManual-Oct%20312011version.pdf.
 - 5. The applicant shall submit a drainage plan that complies with the requirements set forth in 2019 California Building Code (CBC) Section 1804.4 and the recommendations of the soils engineer.
 - 6. The applicant shall submit a signed and stamped Soils (Geotechnical) Engineer Plan Review Form to Environmental Planning. The plan review form shall reference each reviewed sheet of the final plan set by its last revision date. Any updates to the soils report recommendations necessary to address conflicts between the report and plans must be provided via a separate addendum to the soils report. The author of the report shall sign and stamp the completed form. An electronic copy of this form may be found on our website: www.sccoplanning.com, under "Environmental", "Geology & Soils", "Assistance & Forms", "Soils Engineer Plan Review Form".
 - 7. Replacement trees shall be planted on the site at a 2:1 ratio for each tree removed.
- G. Meet all requirements and pay any applicable plan check fee of the Central Fire Protection District.
- H. Submit 3 copies of plan review letters prepared and stamped by the project Geotechnical Engineer.

- I. Pay the current fees Child Care mitigation. Currently, these fees are \$0.74 per square foot for single family dwellings.
- J. Pay the current fees for Parks mitigation. Currently, these fees are \$4.51 per square foot for single family dwellings.
- K. Pay the current Affordable Housing Impact Fee. The fees are based on unit size and the current fee for additions to a dwelling up to 2,000 square feet is \$2 per square foot.
- L. Provide required off-street parking for one car. Parking spaces must be 8.5 feet wide by 18 feet long and must be located entirely outside vehicular rights-of way. Parking must be clearly designated on the plot plan.
- M. Submit a written statement signed by an authorized representative of the school district in which the project is located confirming payment in full of all applicable developer fees and other requirements lawfully imposed by the school district.
- III. All construction shall be performed according to the approved plans for the Building Permit. Prior to final building inspection, the applicant/owner must meet the following conditions:
 - A. All site improvements shown on the final approved Building Permit plans shall be installed.
 - B. All inspections required by the building permit shall be completed to the satisfaction of the County Building Official.
 - C. The project must comply with all recommendations of the approved soils reports.
 - D. Pursuant to Sections 16.40.040 and 16.42.080 of the County Code, if at any time during site preparation, excavation, or other ground disturbance associated with this development, any artifact or other evidence of an historic archaeological resource or a Native American cultural site is discovered, the responsible persons shall immediately cease and desist from all further site excavation and notify the Sheriff-Coroner if the discovery contains human remains, or the Planning Director if the discovery contains no human remains. The procedures established in Sections 16.40.040 and 16.42.080, shall be observed.

IV. Operational Conditions

A. In the event that future County inspections of the subject property disclose noncompliance with any Conditions of this approval or any violation of the County Code, the owner shall pay to the County the full cost of such County inspections, including any follow-up inspections and/or necessary enforcement actions, up to and including permit revocation.

V. Indemnification

- The applicant/owner shall indemnify, defend with counsel approved by the A. COUNTY, and hold harmless the COUNTY, its officers, employees, and agents from and against any claim (including reasonable attorney's fees, expert fees, and all other costs and fees of litigation), against the COUNTY, its officers, employees, and agents arising out of or in connection to this development approval or any subsequent amendment of this development approval which is requested by the applicant/owner, regardless of the COUNTY's passive negligence, but excepting such loss or damage which is caused by the sole active negligence or willful misconduct of the COUNTY. Should the COUNTY in its sole discretion find the applicant's/owner's legal counsel unacceptable, then the applicant/owner shall reimburse the COUNTY its costs of defense, including without limitation reasonable attorney's fees, expert fees, and all other costs and fees of litigation. The applicant/owner shall promptly pay any final judgment rendered against the COUNTY (and its officers, employees, and agents) covered by this indemnity obligation. It is expressly understood and agreed that the foregoing provisions are intended to be as broad and inclusive as is permitted by the law of the State of California and will survive termination of this development approval.
- B. The COUNTY shall promptly notify the applicant/owner of any claim, action, or proceeding against which the COUNTY seeks to be defended, indemnified, or held harmless. The COUNTY shall cooperate fully in such defense.
- C. Nothing contained herein shall prohibit the COUNTY from participating in the defense of any claim, action, or proceeding if both of the following occur:
 - 1. COUNTY bears its own attorney's fees and costs; and
 - 2. COUNTY defends the action in good faith.
- D. <u>Settlement</u>. The applicant/owner shall not be required to pay or perform any settlement unless such applicant/owner has approved the settlement. When representing the COUNTY, the applicant/owner shall not enter into any stipulation or settlement modifying or affecting the interpretation or validity of any of the terms or conditions of the development approval without the prior written consent of the COUNTY.
- E. <u>Successors Bound</u>. The "applicant/owner" shall include the applicant and/or the owner and the successor'(s) in interest, transferee(s), and assign(s) of the applicant and/or the owner.

Minor variations to this permit which do not affect the overall concept or density may be approved by the Planning Director at the request of the applicant or staff in accordance with Chapter 18.10 of the County Code.

Please note: This permit expires three years from the effective date listed below unless a building permit (or permits) is obtained for the primary structure described in the development permit (does not include demolition, temporary power pole or other site preparation permits, or accessory structures unless these are the primary subject of the development permit). Failure to exercise the building permit and to complete all of the construction under the building permit, resulting in the expiration of the building permit, will void the development permit, unless there are special circumstances as determined by the Planning Director.

Approval Date:	
Effective Date:	
Expiration Date:	
	Steve Guiney Deputy Zoning Administrator
	1 0

Appeals: Any property owner, or other person aggrieved, or any other person whose interests are adversely affected by any act or determination of the Zoning Administrator, may appeal the act or determination to the Planning Commission in accordance with chapter 18.10 of the Santa Cruz County Code.

General Notes

Provide combustion air for all gas-fired appliances. (CMC Chapter 7)

Vent dryer to outside of building (not to under-floor area). Vent length shall be 14' maximum or vent size shall be increased. (CMC 504.3)

Provide Tempered glass at all hazardous locations per CBC 2406.4 & CRC 308.4

Safety glazing is required in all fixed and operable panels of swinging, sliding and bi-fold doors.

Safety glazing shall be required within 24" of a door edge or within 36" of a stairway, landing or ramp when the bottom edge of the glazing is less than 60" from the floor or walking surface.

Skylights shall comply with CRC R 308.6

Safety glazing is required in enclosures and walls facing hot tubs, saunas, steam rooms, showers and tubs where the bottom edge of the glazing is less than 60" from any standing or walking surface.

Fire blocking shall be provided in concealed spaces of stud walls and partitions, including furred spaces, and parallel rows of studs or staggered studs; vertically at floor and ceiling levels, horizontally at intervals not to exceed 10'. Openings around gas vents, ducts, chimneys and fireplaces at ceiling and floor levels shall have fire blocking per CBC 717.1 &

Provide minimum 22" x 30" access opening to attic. In attics in which an appliance is installed, an opening and passageway at least as large as the largest component of the appliance shall be required. (CMC 904.11)

Floor and ceiling assemblies shall be draft stopped so that the area of concealed space does not exceed 1000 SF. The draft stops shall divide the concealed space into approximately equal spaces per CBC 718.2 & CRC 302.12.

Provide ventilation for products of combustion to outside air. (CMC 801.1)

Attic ventilation: 1/150 of attic area. If a Class I or II vapor barrier is applied to warm-in winter side of ceiling, or, if 50% -80% of the vents are at least 3' above the eaves and the remaining vents are in the eaves then the ratio may be reduced to 1/300. Enclosed rafter spaces shall have cross ventilation (min. 1" clear)

Under-floor space shall have a ventilation opening area of 1/150 square feet of underfloor area. If a Class I vapor retarder is used the ratio may be reduced to 1/1500. One opening shall be placed within 3 feet of each building corner. Openings shall be covered with a covering having openings no greater than 1/4".

Air infiltration, insulation, space heating& cooling, water heating, etc shall meet CA Energy Commission Standards. Stairways shall comply with CBC 1009 & CRC R311.7

A nosing of not less than ¾ inch, but not more than 1 and ¼ inches, shall be provided on stairways with solid risers and treads less than 11 inches in depth per CRC R311.7.5.3

Required egress door shall be side hinged and have a minimum net clear width of 32" and a minimum height of 78".

There shall be a landing at each side of all doors. The landing shall be at least as wide as the door served and 36"min length measured in the direction of travel. There may one step down of no more than 7.75" provided the door does not swing over the landing.

Stairway rise shall be 4" min and 7.75" max. Run shall be 10" min. Headroom shall be 80" min. Width shall be 36" min. Handrails shall be 34" to 38" above tread nosing with openings less than 4-3/8" clear.

There shall be a floor or landing at the top and bottom of each stairway. Width and length of landings shall be not less than the width of the stairway and shall be at least 36" in the direction of travel. A floor or landing is not required at the top of an interior flight of stairs, including stairs in an enclosed garage, provided a door does not swing over the stairs. Guardrails shall comply with CBC 1013.4 & CRC R 312. Guards shall be located along open sided walking surfaces, including stairs, ramps, landings, and decks, that are more than 30" above the floor or grade. Required guards shall be not less than 42" above the adjacent walking surface. Except that handrails may be considered as guards at stairways. Openings in guards shall not exceed 4". Handrails shall comply with CBC 1012 & CRC R 311.7

Naturally durable wood or preservative treated wood shall be required in the following locations:

- Wood joists and girders closer than 18" or 12" respectively, to the exposed ground.
- Wood framing members that rest on concrete or masonry and are less than 8" from the exposed ground.
- Sills and sleepers on a concrete or masonry slab that is in direct contact with the ground unless separated by an impervious moisture barrier.
- Wood siding, sheathing and wall framing on the exterior of the building having a clearance of less than 6" from the ground or less than 2" from a horizontal concrete surface.

Appliances and receptacles installed in garages and carports generating a glow, spark, or flame shall be located 18" min. above the floor. Provide protective bollard or other impact barrier. (CMC 307.1

Provide a minimum of one 20 Amp receptacle in laundry areas. (CEC 210.52(F))

Kitchens and dining areas must have a minimum of two 20 Amp circuits. Kitchen counter outlets must be installed in every counter space 12" or wider, not greater than 4' o.c. and within 24" of the end of any counter space. (CEC 210.52)

GFCI outlets are required for all kitchen receptacles that are designed to serve countertop surfaces, in bathroom, in under-floor spaces or below grade level, in exterior outlets, and in all garage outlets not dedicated to a single device or appliance. (CEC 210.8) All dwellings must have at least one exterior outlet at the front and the back of the dwelling. (CEC

Receptacles must be installed at 12' o.c. maximum in walls. Walls longer than 2 feet and halls longer than 10' must have a receptacle. A receptacle must be provided within 3' of bathroom sinks. (CEC 210.52)

Bond all metal gas and water pipes to ground. All ground clamps must be accessible and of an approved type. (CEC

Provide smoke detectors per CBC 907.2.10.2 & CRC R 314 & carbon monoxide detectors per CBC 420.6 & CRC R 315.

For new construction & work in an existing dwelling where the value of the work exceeds \$1000 carbon monoxide alarms shall be installed in all dwelling units and in sleeping rooms within which fuel-burning appliances are installed and in dwelling units that have attached garages.

All 120-volt 15 & 20 amp branch circuits in dwelling units except those in kitchens, bathrooms, unfinished basements, garages and outdoors shall have AFCI protection. (CEC 210.12)

Receptacles on 120- volt 15 & 20 amp circuits shall be listed tamper resistant. (CEC 406.11) Except when located more than 5.5' above the floor; within cabinets or cupboards; or when part of a luminaire or appliance.

Kitchen lighting shall be high efficacy or up to 50% of lighting can be low efficacy. High efficacy & low efficacy must be

Lighting in bathrooms, garages, laundry, utility rooms to be high efficacy or low efficacy with manual on occupancy

Lighting in all other interior rooms like living, dining, bedrooms, etc. (except closets of less than 70 sq. ft.) shall be high efficacy or low efficacy with manual on occupancy switches or dimmers.

Outdoor lighting attached to the building shall be high efficacy or low efficacy with motion sensor with photo control.

Water closet shall be located in a space not less than 30" in width with 24" minimum clearance in front. (CPC 407.5)

Provide 18" x 24" foundation access within 20' of plumbing cleanout. (CPC 707.9) Provide anti-siphon valves on all hose bibs. (CPC 603.4.7) Strap water heater at points within upper and lower third of

Copper, galvanized or plastic piping shall not be installed under building slab. All solder joints to be lead free. Type M copper tubing shall not be used for water piping.

Provide low flow showerheads with max. 1.8 gpm at 80 psi (CGBSC 4.403.1.3 & CPC 408.2) and water closets consuming 1.28 gallons per flush or less. (CPC 402.2.2).

Showers shall be finished with a smooth, hard non-absorbent surface to a height of at least 72 in. above the drain outlet

per CBC 1210.3 & CRC R 307.2. Provide curtain rod or approved enclosure material. The contractor must install or verify the existence of smoke alarms and carbon monoxide alarms outside each bedroom as well as one on every level. An additional smoke alarm is required inside each bedroom. Alarms in existing areas

where access to the area above the ceiling is not possible may be powered by a D/C battery source. In areas of new

source with a battery backup and be interconnected per CRC 314, 315 Bathtub and shower floors and walls above bathtubs with installed shower heads and in shower compartments shall be

construction or existing rooms where the area above the ceiling is accessible, alarms must be powered by an A/C power

finished with an non-absorbent surface extending not less than 6 feet above the floor per CRC R 307.2

Ceramic tile surfaces shall be installed in accordance with ANSI A108.1, A108.4 through A108.6, A108.11, A118.1, A118.3, A136.1, and A137.1 CRC R702.4.1

Fiber-cement fiber-reinforced cementitious backer units, glass mat gypsum backers or fiber-reinforced gypsum backers in compliance with ASTM C1288, C1325, C1178 or C1278 respectively and installed in accordance with manufacture's recommendations shall be used as backers for wall tile in tub and shower areas and wall panels in shower areas per CRC R702.4.2

Do not remove manufacture's labeling for all exterior doors and windows in order to demonstrate compliance with CRC R612.3. All new windows and glazing in doors shall have a maximum U-value of 0.30 per CA energy Code Table 150.1-A

Provide protection for the toilet exhaust per CRC R303.6

The shower valve shall be a pressure balance type, thermostatic mixing type or a combination pressure balance/thermostatic mixing type per CPC R408.3

The bathroom exhaust fan to be Energy Star per Cal Green Section 4.506.1 Bathroom Exhaust Fans

The waste outlet and tailpiece for the shower shall be a minimum 2" diameter per CPC 408.4

REMODEL / ADDITION PLANS FOR: VECCHIET RESIDENCE APN 027-103-19

380 - 7th AVENUE - SANTA CRUZ, CALIFORNIA

FIRE DEPARTMENT NOTES

These plans are in compliance with the California Building and Fire Codes (2019 edition) and Santa Cruz County Central Fire Protection District Amendments

Building Construction

The FIRE SPRINKLER SYSTEM drawings must be prepared and submitted for approval by a California State Licensed Contractor (Class A, or C-16) meeting the requirements of NFPA 13, "Standard for the Installation of Fire Sprinkler Systems". Designer/installer shall submit two (2) sets of plans and calculations to the Santa Cruz County Central Fire Protection District for approval

An UNDERGROUND FIRE PROTECTION SYSTEM WORKING DRAWING must be prepared and submitted for approval by a California State Licensed Contractor (Class A, C-16 or C-34). The plans shall comply with NFPA 24. "Standard for the Installation of Private Fire Service Mains and Their Appurtenances". Designer/installer shall submit two (2) sets of plans and calculations to the Santa Cruz County Central Fire Protection District for approva

Automatic fire sprinkler systems shall be supervised by an approved Central, Proprietary, or Remote Station or an approved local alarm which will give an audible signal at a constantly (24 hour) attended location

The building shall be protected by an approved fire alarm system complying with the currently adopted edition of NFPA 72, and adopted standards of the Central Fire Protection District.

Building numbers shall be provided. Numbers shall be a minimum of six (6) inches in height on a contrasting background and visible from the street. Where numbers are not visible from the street. additional numbers shall be installed on a directional sign at the property driveway and the street.

Roof coverings shall be no less than Class "B" fire rated roof.

Install smoke detectors per CBC sections 907.2.10.1.1 & CRC R 314. Install carbon-monoxide detectors per CBC 420 & CRC R 315.2

The job copies of the building and fire system plans and permits must be on-site during inspections.

As a condition of submittal of these plans, the submitter, designer and installer certify that these plans and details comply with applicable Specifications, Standards, Codes and Ordinances agree that they are solely responsible for compliance with applicable Specifications, Standards, Codes and Ordinances, and further agree to correct any deficiencies noted by this review, subsequent review, inspection or other source and, to hold harmless and without prejudice, the reviewer and reviewing agency.

GREEN BUILDING NOTES

- Conduct Pre-construction Green Building Conference.
- Provide Construction Waste Management Plan for 65% Recycling Job Site Construction & Demolition Waste.
- **Donate Unused materials**
- Protect annular spaces around openings in plates at exterior wall per
- Substitution of solid sawn lumber with engineered lumber for Structural Beams and Headers including non-structural Headers is acceptable. Acquire final approval by Architect & Structural Engineer where applicable.
- Substitution of Plywood with OSB for sheathing is acceptable. Acquire final approval by Architect & Structural Engineer where applicable
- Install Energy Star Appliances (Dishwasher, Refrigerator) in Kitchen.
- Install built-in recycling center in Kitchen cabinetry.
- Install Insulation after building is Weather-Tight and outside of the rainy season.
- Cover duct openings/ air distribution openings during construction.
- Clean ducts before occupancy. Use Duct Mastic on all duct joints.
- Check moisture content materials for walls & floor before enclosure. Install Low VOC carpet systems (where applicable).
 - Develop Homeowner Manual including Green Measures & Benefits.

ARCHEOLOGICAL NOTES

Any person exercising a development permit or building permit who, at any time in the preparation for or process of excavating or otherwise disturbing earth, discovers any human remains of any age or any artifact or any other object which reasonably appears to be evidence of an archaeological/cultural resource or

paleontological resource, shall: Immediately cease all further excavation, disturbance, and work on the Cause staking to be placed completely around the area of discovery by visible stakes not more than ten feet apart forming a circle having a radius of

not less than one hundred feet from the point of discovery; provided, that such staking need not take place on adjoining property unless the owner of the adjoining property authorizes such staking Notify the Santa Cruz County sheriff-coroner and the city of Santa Cruz planning director of the discovery unless no human remains have been

discovered, in which case the property owner shall notify only the planning Grant permission to all duly authorized representatives of the sheriff-coroner and the planning director to enter onto the property and to take all actions consistent with this section

DEFERRED SUBMITTAL

SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER OF RECORD, WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALI NOT BE INSTALLED UNTIL THE DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL. THE FOLLOWING ITEMS WILL BE SUBMITTED SEPARATELY FOR

PROVIDE COMPLETE DESIGN CALCULATIONS, DRAWINGS AND SPECIFICATIONS FOR FIRE SPRINKLER SYSTEM FOR APPROVAL PRIOR TO INSTALLATION

PROVIDE DESIGN AND DOCUMENTATION FOR A COMPLETE HEATING SYSTEM PLANS AND SPECIFICATIONS TO INCLUDE APPLIANCE MODELS, SPECIFICATIONS, BTU VALUES, DUCT LAYOUT, MATERIALS AND SIZES, ETC. HEATING AND/OR AIR-CONDITIONING SYSTEMS SHALL BE SIZED, DESIGNED AND HAVE THE EQUIPMENT SELECTED USING THE FOLLOWING METHODS:

THE HEAT LOSS AND HEAT GAIN IS ESTABLISHED ACCORDING TO ANSI/ACCA 2 MANUAL J-2011, ASHRAE HANDBOOKS OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS.

DUCT SYSTEMS ARE SIZED ACCORDING TO ANSI/ACCA 1 MANUAL D-2014, ASHRAE HANDBOOKS OR OTHER EQUIVALENT DESIGN SOFTWARE SELECT HEATING AND COOLING EQUIPMENT ACCORDING TO ANSI/ACCA 3 MANUAL S-2014 OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS.

HERS registered forms are required by installing mechanical contractor for the central furnace. Installing contractor to register project with HERS provider and submit CF2Rs & CF3Rs to jurisdiction before beginning work; HERS duct testing is required and must pass with ducts having less than 5% leakage. HERS certification is required for indoor air quality ventilation.

HERS inspection and certification is required for installation of Kitchen cooktop exhaust hood.

HERS registered forms are required by installing mechanical contractor for the heat pump system. Installing contractor to register project with HERS provider and submit CF2Rs & CF3Rs to jurisdiction before beginning work; HERS certification is required for indoor air quality ventilation. HERS inspection and certification is required for cooling system; verified SEER, Verified Refrigerant Charge, Airflow in Habitable rooms (SC3.1.4.1.7). HERS inspection and certification is required for Heating System; verified HSPF, verified heat pump rated heating capacity, wall-mounted thermostat in zones greater than 150 ft2 (SC3.4.5), ductless indoor units located entirely in conditioned space (SC3.1.4.1.8).

PROJECT CONSULTANTS

Michael Helm, Architect

Michael Helm & Associates 200 Seventh Ave., #110 Santa Cruz, CA 95062 831-476-5386

George Reynolds, S. E. 111 Younglove Ave.

831-426-3637

Santa Cruz, CA 95060

Civil Consultants Group, Inc. 4444 Scotts Valley Drive, Suite 6 Scotts Vally, CA 95066 831-438-4420

ENERGY Monterey Energy Group 26465 Carmel Rancho Blvd., #8 Carmel, CA 93923

ARCHITECT

831-372-8328 SOILS CMAG Engineering, Inc. P.O. Box 640 Aptos, CA 95001 831-475-1411

<u>SOILS REPORT</u>

ALL SOILS WORK AND FOUNDATION PLACEMENT SHALL CONFORM TO THE RECOMMENDATIONS IN THE GEOTECHNICAL INVESTIGATION, PROJECT NO. 22-116-SC, DATED May 26, 2022, BY CMAG ENGINEERING INC.

APPLICABLE CODES

ALL WORK INDICATED ON THE PLANS SHALL COMPLY WITH THE FOLLOWING GOVERNING CODES:

2019 CALIFORNIA BUILDING CODE 2019 CALIFORNIA RESIDENTIAL CODE 2019 CALIFORNIA ELECTRICAL CODE 2019 CALIFORNIA PLUMBING CODE 2019 CALIFORNIA MECHANICAL CODE 2019 CALIFORNIA ENERGY CODE 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

COUNTY OF SANTA CRUZ MUNICIPAL CODE. **ENVIRONMENTAL HEALTH & FIRE STANDARDS**

SHEET INDEX

COVER SHEET TOPOGRAPHIC MAP

SITE PI AN STORMWATER POLLUTION PREVENTION PLAN **EXISTING - FLOOR PLANS & ELEVATIONS EXISTING - EXTERIOR ELEVATIONS**

DEMOLITION PLANS PROPOSED - FLOOR PLANS PROPOSED - EXTERIOR **ELECTRICAL SCHEMATIC PLANS MECHANICAL NOTES** MECHANICAL SCHEMATIC PLANS

2019 CALIFORNIA FIRE CODE

ARCHITECTURAL SPECIFICATIONS STRUCTURAL NOTES FOUNDATION / FLOOR FRAMING PLANS ROOF FRAMING PLAN CONSTRUCTION DETAILS CONSTRUCTION DETAILS **CONSTRUCTION DETAILS**

ENERGY COMPLIANCE FORMS ENERGY COMPLIANCE FORMS ENERGY COMPLIANCE FORMS

GREEN BUILDING STANDARDS

GREEN BUILDING STANDARDS

STORMWATER MAINTENANCE AGREEMENT NOTES

OWNER CONSENTS AND AGREES TO INSPECT AND MAINTAIN ANNUALLY 'PRIOR TO THE RAINY SEASON' THE ON-SITE DRAINAGE SYSTEMS AND STORMWATER MANAGEMENT FACILITIES ON THE SUBJECT PROPERTY.

MAINTENANCE SCHEDULE FOR ON-SITE DRAINAGE SYSTEMS AND STORMWATER MANAGEMENT FACILITIES

ROOF GUTTERS AND DOWNSPOUTS - SHALL BE CLEANED AS REQUIRED PRIOR TO RAINY SEASON ANNUALLY.

PERCOLATION TRENCHES - INSPECT VIA CLEAN-OUTS / INSPECTION PORTS, DRAIN PIPES AND OVERFLOW FISERS PRIOR TO THE RAINY SEASON ANNUALLY TO ASSURE DRAINAGE PERCOLATION SYSTEMS FUNCTIONS PROPERLY

THERE ARE NO EXISTING STORMWATER (DRAINAGE) ISSUES ON OR NEAR THE SITE AND THERE ARE NO STORMWATER (DRAINAGE) ISSUES ANTICIPATED RESULTING FROM THE PROPOSED IMPROVEMENTS

OWNER

PROJECT DATA

VICINITY MAP

500

Aldo's Santa Cruz

0

Santa Cruz Breakwater

(Walton) Lighthouse

Santa Cruz Smal

Graft Harbor

Cafe El Palomai

Santa Cruz

Harbor Beach

380 - 7TH AVENUE SANTA CRUZ, CA 95062

Twin Lakes

State Beach

Harbor Cafe

L&L Hawaiian 8arbecue

Lagoor

831-818-2004 APN 027-103-19 OCCUPANCY CL. R-3/U

Eaton St

FIRE RATING SPRINKLERED LOT AREA 3,000 SF

LOT COVERAGE 50% MAX. ALLOWED = 1500 SF WITH MINOR EXCEPTION 1030

GARAGE BATH / UTILITY COVERED PORCHES 1497.75 SF = 49.7% 1243.5 SF = 41.4% 50% MAX. ALLOWED = 1500 SF VARIANCE REQUIRED

UPPER FLR 378.5 GARAGE (343 - 225 CREDIT) 118 118 TOTAL HOUSE + GARAGE 869.5 SF = 28.9% 1643.5 SF = 54.7%

BUILDING AREA

PROPOSED UN-HEATED AREA BATH / UTILITY 343

3,000 square feet

7TH Avenue / Dolores Street

Soils Report - REQUIRED

Not a mapped constraint

No Grading required

Not a mapped resource

Existing drainage adequate

R-UH (Urban High Residential) R-1-3.5 (Single-family residential,

3,500 Square foot minimum parcel size)

Not mapped/ no physical evidence on site

Not mapped/ no physical evidence on site

Not mapped/ no physical evidence on site

Residential

Live Oak

2287.5 SF

No Grading is required for this project. Areas disrupted during Construction shall be restored to be consistent with native vegetation species and patterns.

TOTAL HOUSE + GAR + ADU 1630.5 SF

PARCEL INFORMATION

Parcel Size: Existing Land Use - Parcel: Existing Land Use – Surrounding: Project Access: Planning Area:

Land Use Designation: Zone District: Coastal Zone: **ENVIRONMENTAL INFORMATION**

Fire Hazard: Env. Sen. Habitat: Grading: Tree Removal: Scenic:

Geologic Hazards:

Archeology: **SERVICES INFORMATION**

Urban/Rural Services Line:

Water Supply: Sewage Disposal: Fire District: **Drainage District:**

Drainage:

City of Santa Cruz County of Santa Cruz Central Fire Protection District

PROJECT DESCRIPTION

The project consists of remodeling, alterations and additions to an existing one-story 751.5 SF 2 bedroom / 1 bathroom, single family residence with an existing detached 460 SF garage with bathroom and utility room.

Lower floor additions consist of a new entry, kitchen and dining room of approximately 387.5 SF. Upper floor additions consist of a new bedroom, bathroom & walk-in closet of approximately 378.5 SF. The completed two-story main residence would consist of 2 bedrooms, 3 bathrooms, entry, living

dining, and utility room of approximately 1525.5 SF with an attached garage of approximately 343 SF.

The project also consists of recognizing the existing 419 SF studio ADU above the garage.

EXHIBIT D

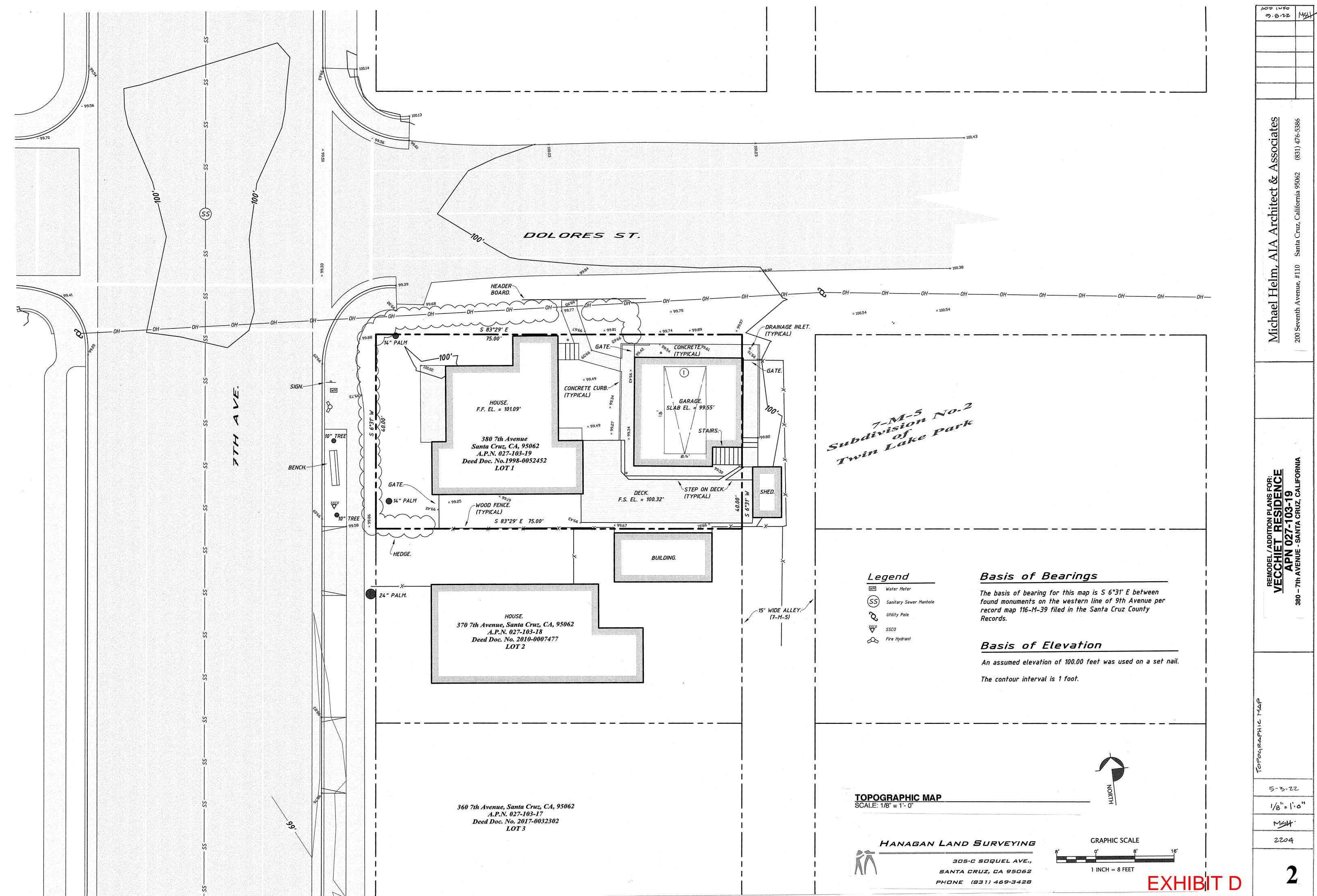
RESIDER 7-103-19

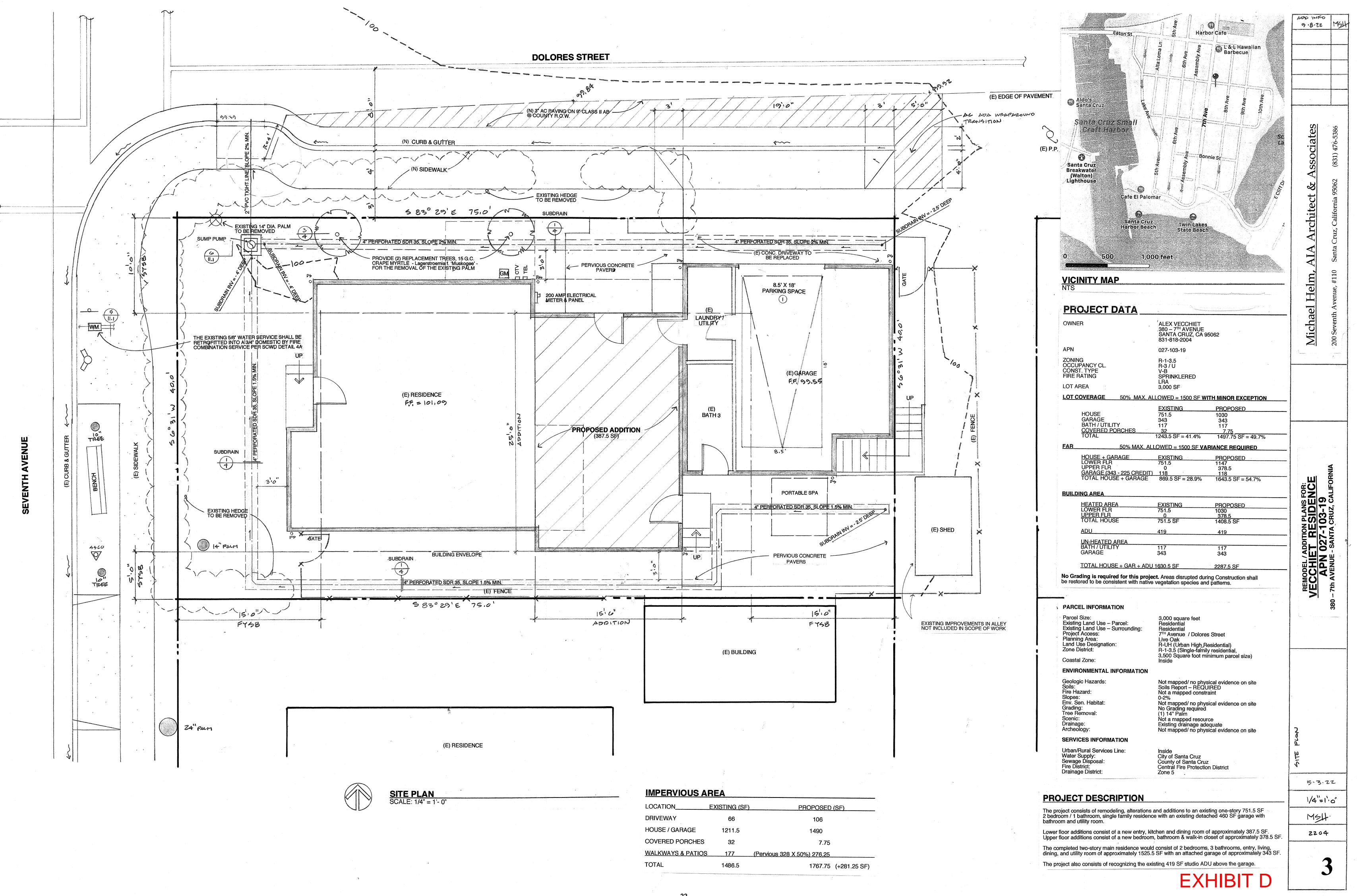
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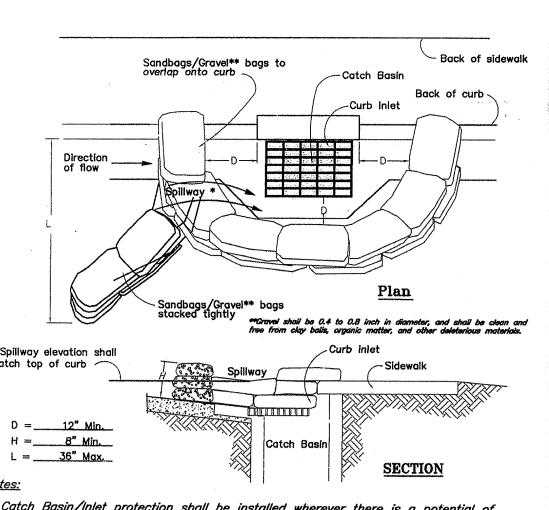
9.8.22

5-3.22

NT5 MSH.





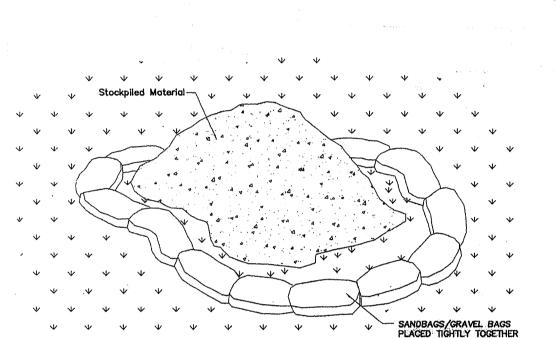


1. Catch Basin/Inlet protection shall be installed wherever there is a potential of stormwater or non-stormwater being discharged into it. 2. Inlet protection is required along with other pollution prevention measures such as; erosion control, soil stabilization, and measures to prevent tracking onto

paved surfaces. 3. Modify inlet protection as needed to avoid creating traffic hazards.
4. Include inlet protection measures at hillside v—ditches and misc. drainage swales.
5. Inlet protection shall be inspected and accumulated sediments removed. Sediment shall be disposed of properly and in a manner that assures that the sediment

does not enter the storm drain system 6. Damaged bags shall be replaced immediately. 7. Additional sandbag sediment traps shall be placed at intervals as indicated on

(A) CATCH BASIN/INLET PROTECTION



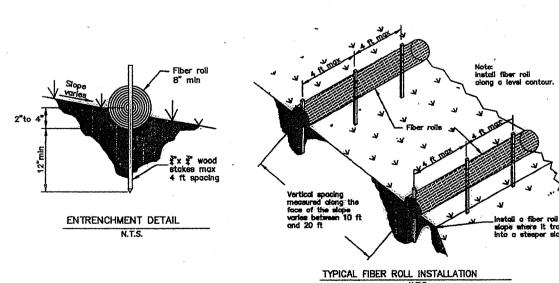
Stockpile management procedures and practices are designed to reduce or eliminate air and storm water pollution from stockpiles of soil, and paving materials such as portland cement concrete (PCC) rubble, asphalt concrete (AC), asphalt concrete rubble, aggregate base, aggregate subbase or pre-mixed aggregate, asphalt binder (i.e. cold mix) and pressure treated wood.

1. Protection of stockpiles is a year-round requirement. 2. Locate stockpiles a minimum of 50 feet away from concentrated flows of storm water, drainage courses, and drain inlets.

Implement wind erosion/transport control practices as appropriate.

4. All stockpiles shall be covered, stabilized, or protected with a temporary linear barrier (i.e. sandbags, etc.) prior to the onset of precipitation.





Notes:

1. Place along the toe, top, face, and at grade breaks of exposed and erodible

Place on the down-slope of exposed soil areas. 3. Place around temporary stockpiles.

4. Place along the perimeter of a project. 5. Slopes greater than 1:5 may require the use of 20 inch diameter fiber rolls at the top of slopes.

6. Fiber rolls shall be either prefabricated or rolled tubes of erosion control blankets with a minimum 8 inch diameter.

7. Slopes 1:4 or flatter require fiber rolls to be placed no more than 20 feet

apart.
8. Slopes 1:4 to 1:2 require fiber rolls to be placed no more than 15 feet apart. 9. Slopes 1:2 or greater require fiber rolls to be placed no more than 10 feet

10. Fiber rolls shall be placed in a 2 to 4 inch deep trench. 11. Wooden commercial grade stakes, 3," X 3,", shall be used to secure the fiber

roll to the ground surface. Stakes shall be a minimum length of 24 inches and driven a minimum of 12 inches. 12. A single-stake installation requires the stakes to be placed no more than 2

13. If more than one fiber roll is placed in a row, the rolls shall be overlapped,

not abutted, a minimum of 1 foot. PERMEABLE INTERLOCKING CONCRETE POVERS

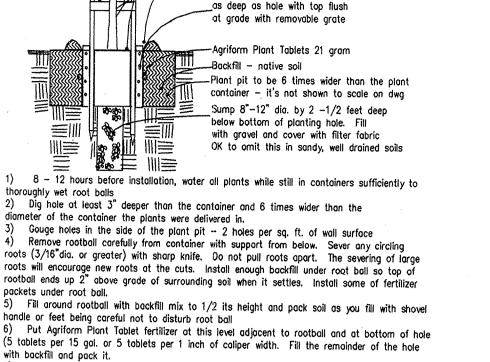
SUBAVESDE EXTENOS

BEYOND WILB TO

PROVIDE WORKING

PLOTFORM FOR

NATALLATION



lean in to each other

3

dia. Lodge Pole or equivalent - 18"

in solid ground placed outside rootball

Mulch (2" deep) pulled 3 inches away

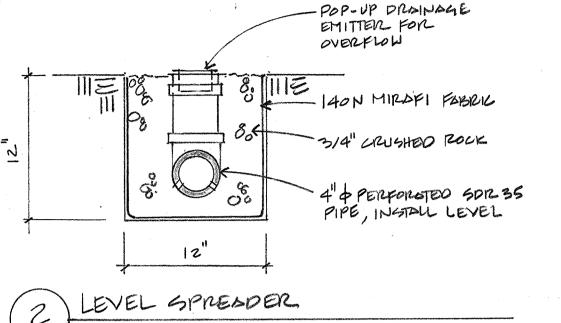
4" high berm for water basin at edge of

2 - 4" dia. perforated drain pipes

-1x4 RWD brace, nailed to stakes but

not touching tree trunk

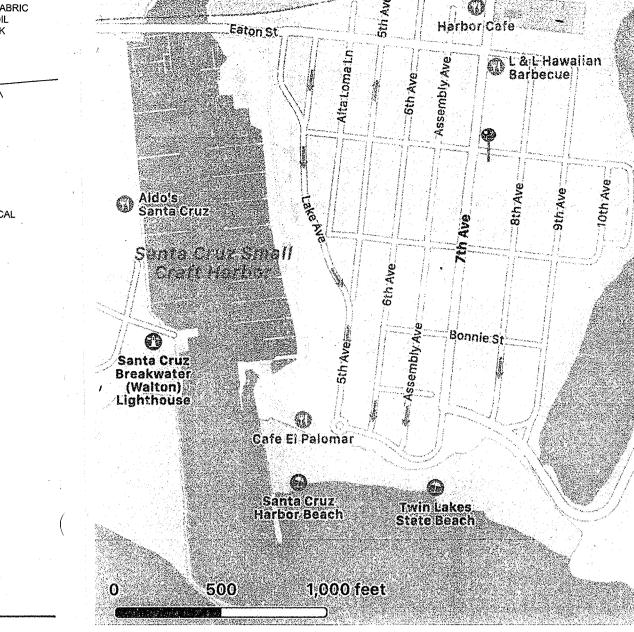
7) Water tree thoroughly by filling the basin and allowing the water to percolate in, doing this 3 times or more until root ball and backfill is wet 8) Install stakes such that the stakes and the tree ties won't damage the tree and the 12 stakes won't lean toward each other. Cut off tops of stakes if necessary to lower below branches that could be rubbed by stakes. Install stakes so they are straight up and don't LEVEL SPREADER Best backfill for palms is 100% washed plaster sand



- MIRAFI 140N FILTERFABRIC BETWEEN NATIVE SOIL CAP AND DRAIN ROCK 8" NATIVE SOIL CAP ---CALTRANS CLASS 2 -PERMEABLE MINIMUM DEPTH PER GEOTECHNICAL 4" PERFORATED -REPORT SDR 35 OR **APPROVED** EQUIVALENT, .44. 4 4

> 1. DRAWING IS NOT TO SCALE 2. 2+ PERCENT TO PIPE AND TRENCH BOTTOM B. PERFORATED SDR 35 PVC PIPE, OR APPROVED EQUIVALENT, CONNECTED TO CLOSED CONDUITS THAT DISCHARGE TO AN APPROVED LOCATION 4. INSTALL CLEAN OUTS AT APPROVED LOCATIONS

PERLIMETER SUBDRAIN



9.8.22

e

N S

VECCHIET RESIDE APN 027-103-19

5.3.22

1/8=110

2204

EXHIBIT D

VICINITY MAP

PROJECT DATA

ALEX VECCHIET OWNER 380 - 7TH AVENUE SANTA CRUZ, CA 95062 831-818-2004 APN 027-103-19 ZONING R-1-3.5 **OCCUPANCY CL** R-3/U CONST. TYPE FIRE RATING SPRINKLERED SRA LOT ARŒA 3,000 SF

All loose stockpiled construction materials that are not actively being used (i.e.

- spoils, aggregate, fly-ash, stucco, hydrated lime, etc.) shall be covered and bermed. · All chemicals shall be stored in watertight containers (with appropriate secondary containment to prevent any spillage or leakage) or in a storage shed (completely
- · Exposure of construction materials to precipitation shall be minimized. This does not include materials and equipment that are designed to be outdoors and exposed to environmental conditions (i.e. poles, equipment pads, cabinets, conductors, insulators,
- · Best Management Practices to prevent the off-site tracking of loose construction and landscape materials shall be implemented.

Waste Management

· Disposal of any rinse or wash waters or materials on impervious or pervious site surfaces or into the storm drain system shall be prevented.

- · Sanitation facilities shall be contained (e.g., portable toilets) to prevent discharges of pollutants to the storm water drainage system or receiving water, and shall be located a minimum of 20 feet away from an inlet, street or driveway, stream, riparian area or other drainage facility. · Sanitation facilities shall be inspected regularly for leaks and spills and cleaned or
- replaced as necessary.
- Cover waste disposal containers at the end of every business day and during a rain event. · Discharges from waste disposal containers to the storm water drainage system or receiving water shall be prevented. • Stockpiled waste material shall be contained and securely protected from wind and rain at
- all times unless actively being used. • Procedures that effectively address hazardous and non-hazardous spills shall be
- Equipment and materials for cleanup of spills shall be available on site and that spills and leaks shall be cleaned up immediately and disposed of properly; and
- Concrete washout areas and other washout areas that may contain additional pollutants shall be contained so there is no discharge into the underlying soil and onto the surrounding areas.

Vehicle Storage and Maintenance

- Measures shall be taken to prevent oil, grease, or fuel to leak in to the ground, storm drains or surface waters.
- · All equipment or vehicles, which are to be fueled, maintained and stored onsite shall be in a designated area fitted with appropriate BMPs.
- · Leaks shall be immediately cleaned and leaked materials shall be disposed of properly.

Landscape Materials Contain stockpiled materials such as mulches and topsoil when they are not active

· Contain fertilizers and other landscape materials when they are not actively being used.

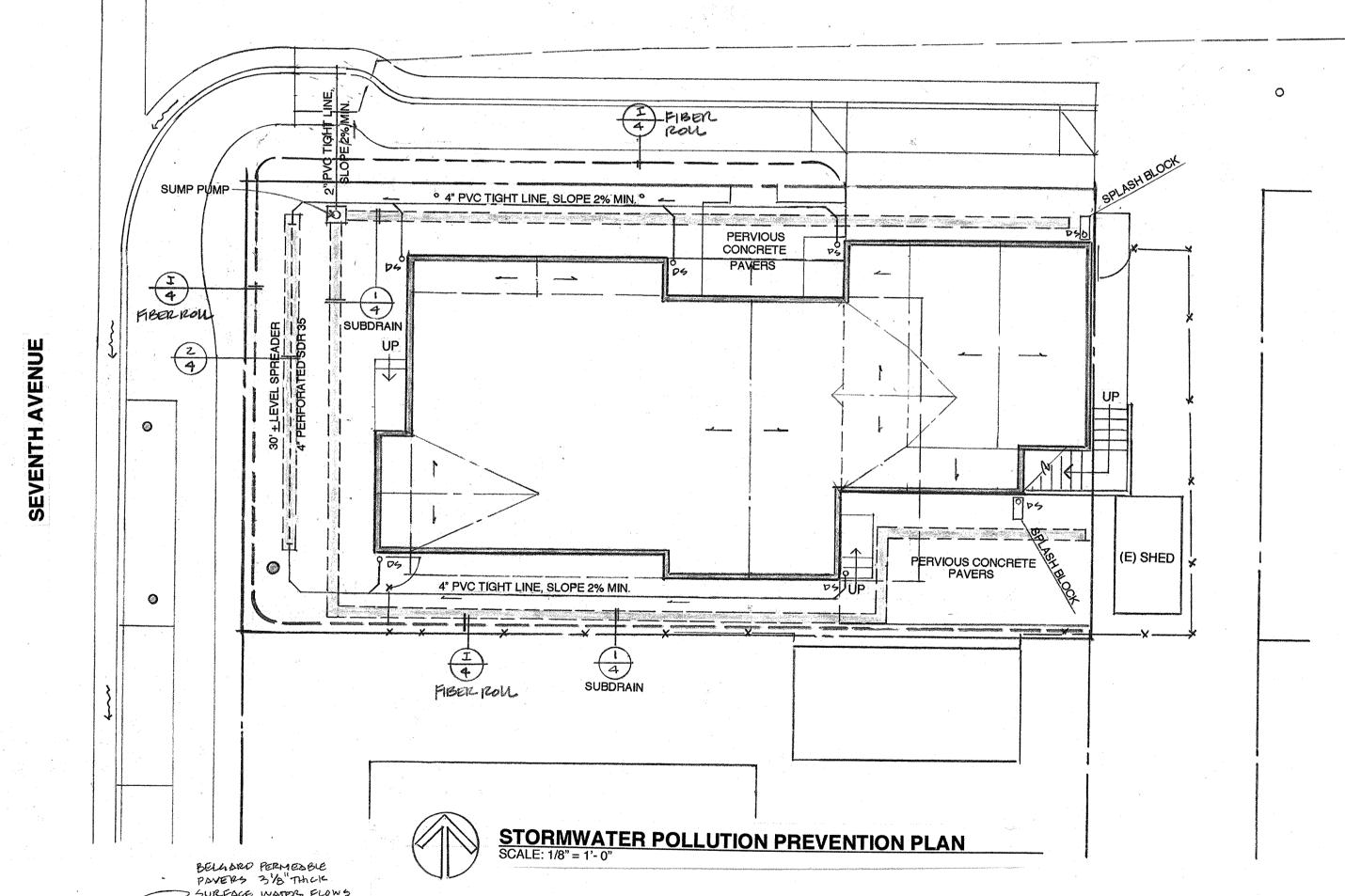
EROSION CONTROL NOTES

- 1 Erosion control planting or permanent landscaping shall be completed by October 15.
- 2 Permanent landecape areae require auto-irrigation.
- Hydro-mulching is the best effective seeding method for large areas. Best time for planting is September-October, unless there is a sprinkler system.
- Broadcast is approved for small areas. In this case apply fertilizer before seeding, after seeding apply straw or hay mulch.
- Apply erosion control material on all drainage swales, cuts and fill, also any
- location where any existing vegetation has been removed. 6 If mulching, seeding, or fertilizing manually, mulch with straw or hay at

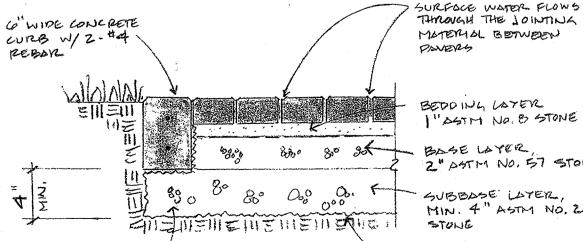
4000 lbs/acre. Fertilize with Ammonium Phosphate with Sulphur (16-20-0) at 350 lbs/acre. If Hydro-mulching, use wood fiber mulch at 2000 lbs/acre.

GRASS/LEGUME SEED MIX FOR EROSION CONTROL

Seed Mix	Rate of Application
Blando Brome	15 Ibe/acre
Rose Clover	12 lbe/acre
Zorro Annual Feecue	3 lbe/acre
Creeping Red Feacue	5 lbe/acre
Apply seed mix at rate of	35 lbe/acre <u>or</u> 8 lbe/ 10,000 Sq. Ft. <u>or</u> 3/ lbe/ 1000 Sq. Ft.
Fertilizer (16-20-0)	350 lbe/acre <u>or</u> 8 lbe/1000 Sq. Ft.



DOLORES STREET



2" ASTM NO. 57 STONE SUBBASE LATER. MIN. 4" ASTM NO. 2 NON-WOVEN GEOTIEXTILE

US FABRICS, INC. USBONWON BOTTOM & SIDES OF OPEN GRADED BAGE

DRAINAGE PERCOLATION SYSTEMS FUNCTIONS PROPERLY THERE ARE NO EXISTING STORMWATER (DRAINAGE) ISSUES ON OR NEAR THE SITE AND THERE ARE NO STORMWATER (DRAINAGE) ISSUES ANTICIPATED RESULTING FROM THE PROPOSED IMPROVEMENTS

STORMWATER MAINTENANCE AGREEMENT NOTES

OWNER CONSENTS AND AGREES TO INSPECT AND MAINTAIN

ANNUALLY 'PRIOR TO THE RAINY SEASON' THE ON-SITE DRAINAGE

MAINTENANCE SCHEDULE FOR ON-SITE DRAINAGE
SYSTEMS AND STORMWATER MANAGEMENT FACILITIES

<u>PERCOLATION TRENCHES</u> – INSPECT VIA CLEAN-OUTS / INSPECTION PORTS, DRAIN PIPES AND OVERFLOW RISERS

PRIOR TO THE RAINY SEASON ANNUALLY TO ASSURE

SYSTEMS AND STORMWATER MANAGEMENT FACILITIES ON THE

IMPERVIOUS AREA

EXISTING (SF) LOCATION_ PROPOSED (SF) DRIVEWAY 66 HOUSE / GARAGE 1211.5 1490 **COVERED PORCHES** 32 7.75 WALKWAYS & PATIOS (Pervious 328 X 50%) 276.25

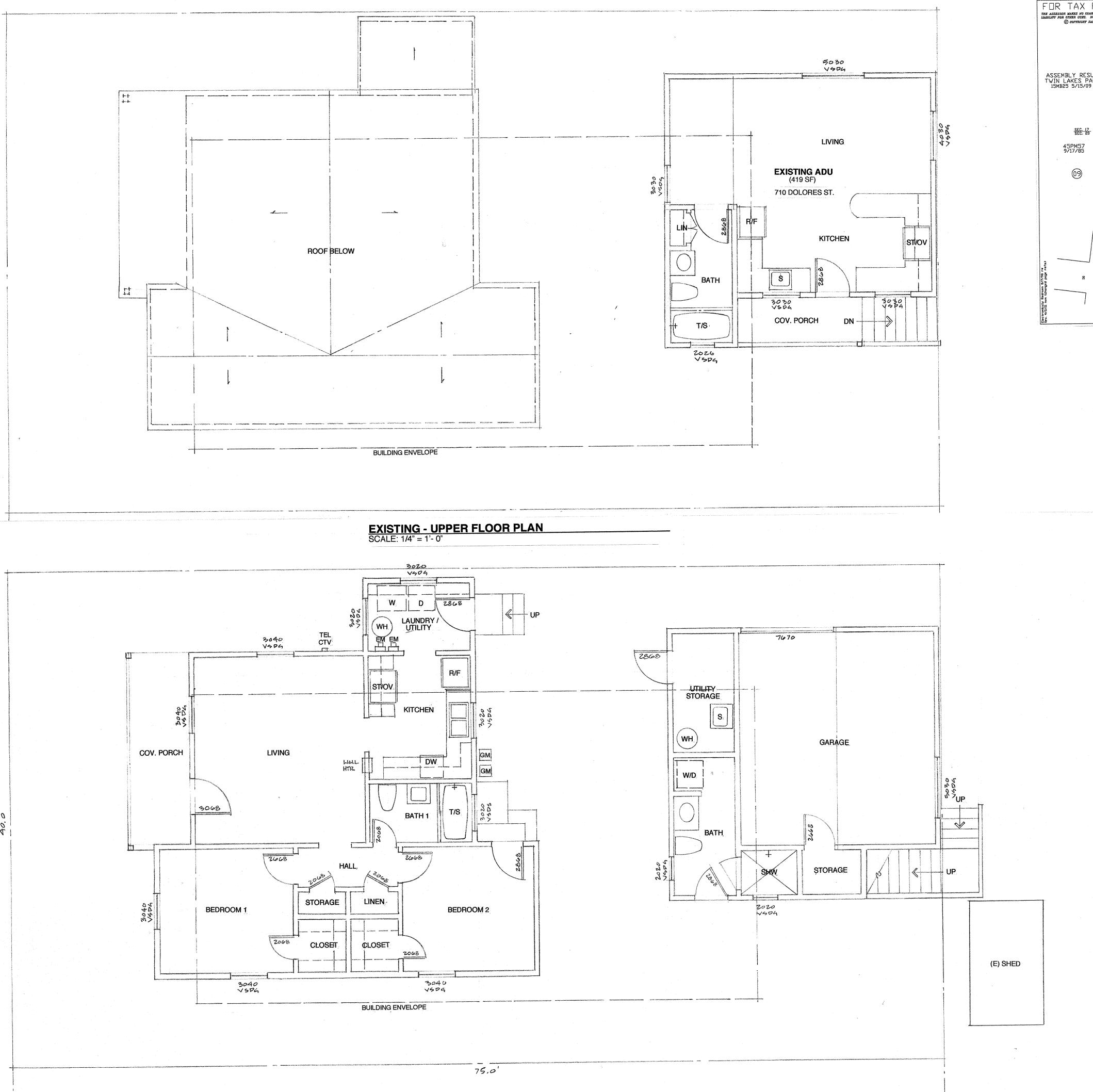
1767.75 (+281.25 SF)

1486.5

(I) FIBER ROLL

23

SUBJECT PROPERTY.



EXISTING - LOWER FLOOR PLAN SCALE: 1/4" = 1'- 0"

07 Tax Area Code 82-040 POR. OF SEC. 17 & 20, T.11S., R.1W., M.D.B. & M. FOR TAX PURPOSES ONLY

THE ASSESSOR MAKES NO CUARANTEE AS TO MAP ACCURACY NOR ASSUMES ANY
LIABILITY FOR OTHER USES. NOT TO BE REPRODUCED. ALL RICHTS RESERVED.

© COPYRIGHT SANTA CRUZ COUNTY ASSESSOR 1998

55 08) 20 1 ASSEMBLY RESUB. TWIN LAKES PARK 15MB25 5/15/09 18 s 19 ② (17) ₃ SEC. 17 SEC. 20 16 4 17 (4) 16 (5) (15) ₅ TWIN LAKES PARK SUB, ND, 2 7MB5 8/26/90 2 15 6 14 7 8 (18) 13 (8) Assessor's Map No. 27-10 County of Santa Cruz, Calif August, 1998 Note - Assessor's Parcel & Block Numbers Shown in Circles. PARCEL MAP



Parcel Info			
APN	Situs Address	Class	
02710319	380 7TH AVE, SANTA CRUZ , 95062-4609	031-TWO SFRS/1 APN	

Site Information					
			R-UH URBAN	<u> </u>	
Parcel #	02710319	General Plan	HIGH	Zone	R-1-3.5
View	NO VIEW		RESIDENTIAL	Water	PUBLIC WATER
Topography	LEVEL	Parcel Size (sqr-ft)	3,049		PUBLIC
Other Buildings	N/A	Parcel Size	0.0700	Sanitation	SEWER
		(acres)	•		

Year Built	1933	Main Area	740	Deck	
Effective Year	1933	Room Count	5	Porch	
# of Units	1	Bedrooms	2	Pool	
Condition	N/A	Bathrooms (F/H)	1/0	spa	
Concrete	o	Roof	N/A	Garage	
Fireplaces	0	Heat	N/A	Carport	
Building 2 ▼					
Year Built	1937	Main Area	420	Deck	

i nopiacoo				<u> </u>	
Building 2 ▼					
Year Built	1937	Main Area	420	Deck	0
Effective Year	1937	Room Count	o	Porch	0
# of Units	. 1	Bedrooms	o	Pool	N
Condition	N/A	Bathrooms (F/H)	0/0	spa	N
Concrete	0	Roof	- N/A	Garage	0
Fireplaces	o	Heat	N/A	Carport	0

Santa Cruz County Assessor's Office

Parcel Info		
APN	Situs Address	Class
02710319	380 7TH AVE, SANTA CRUZ , 95062-4609	031-TWO SFRS/1 APN
Parcel Addresses		
Situs	Mailing	
380 7TH AVE, SANTA CRUZ , 95062-4609 (Primary)	710 DOLORES ST, SANTA CRUZ CA, 95062	
710 DOLORES ST, SANTA CRUZ , 95062-4609	710 DOLORES ST, SANTA CRUZ CA, 95062	

LUDIT D

5.3.22

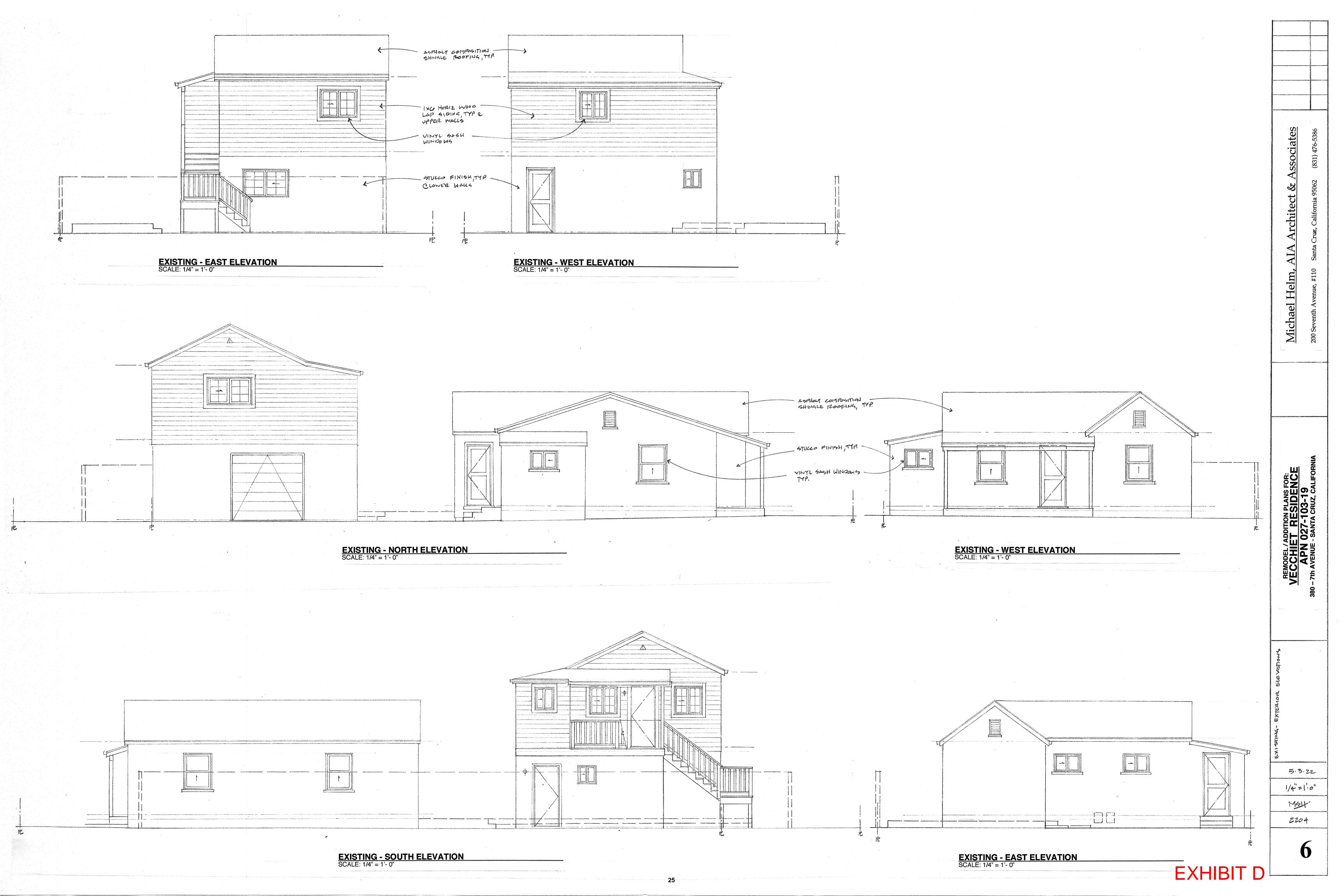
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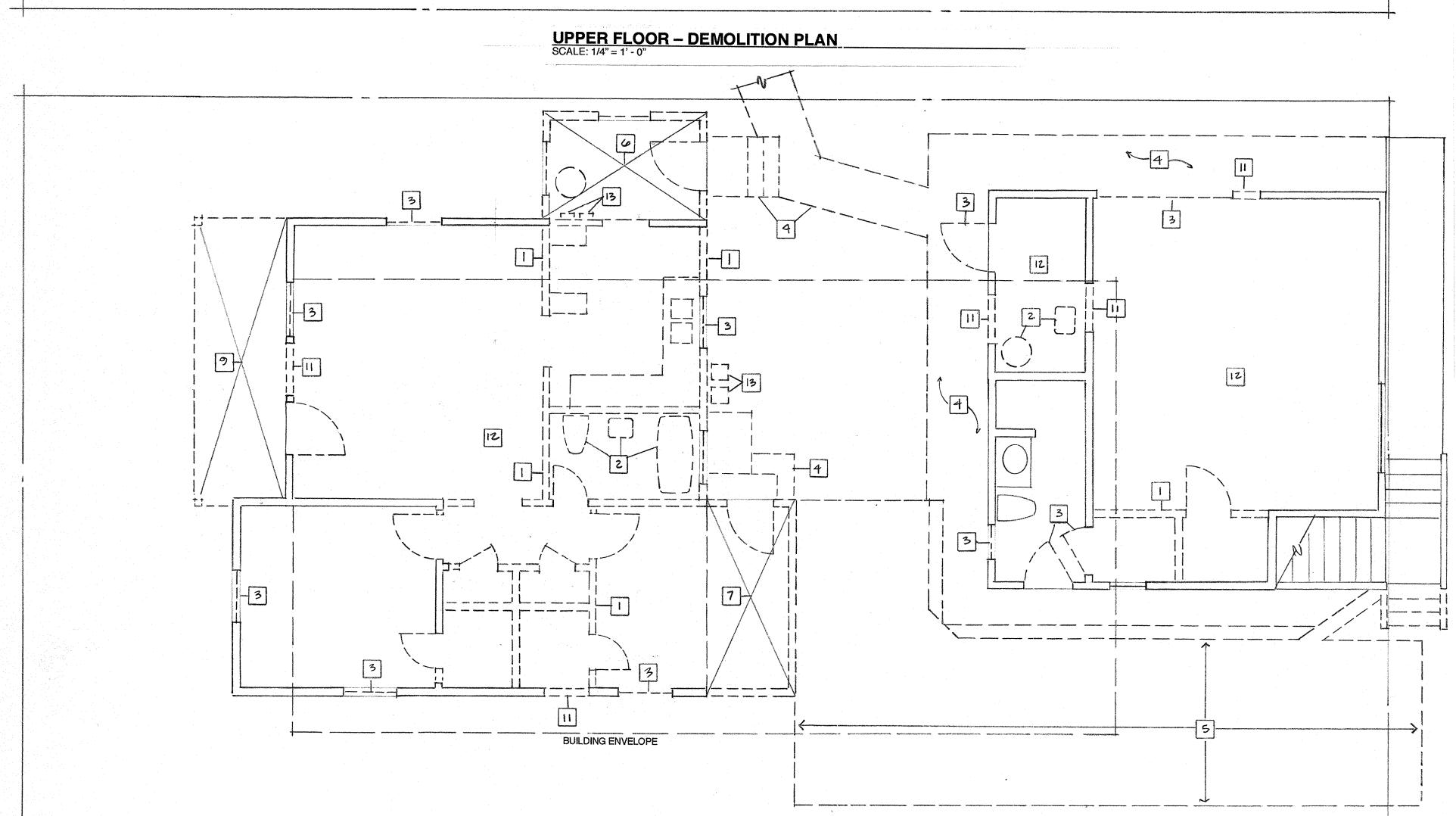
MSH.

2204

Michael Helm,

EXHIBIT D





Modification Worksheet

To be used in association with evaluating the extent of proposed modifications of the major structural components of a nonconforming structure or structure accomodating a nonconforming use, and for a determination whether a structure may be considered development per the Geologic Hazards Ordinance and thus may be required to prepare a geologic report or geologic assessment.

How to use this calculator:

For each building component (roof, exterior walls, floor framing or foundation), you may enter either an estimated percentage to be modified or you can enter the actual measurements and use the calculator to obtain the percent modification of that component. Enter values only in the green fields. The result is given in the blue box a the bottom of the spreadsheet.

For spreadsheet guidelines, click the index tab (below page margin at bottom of this page) called "User Guide".

Estimated % of exterior walls to be modified

Total length of existing exterior walls

Total length of modified exterior walls

<u>oof</u>		Do not enter	<u>Calculation Tips</u>
	Enter either	words or symbols	
	Estimated % of roof to be modified	22.0	Roof Calculation Notes:
	or		Measure as a flat plane, neglecting slope. Do not count
	Area of Existing Roof	1289 SI	deck roofs or eaves. Do count sealed decks that are part
	Total Modified Area of Roof	292 SI	of the main roof system. On most one-story structures,
		22.6	the roof area will equal the floor area.
xterior Walls			
	Enter either		Exterior walls Calculation Notes:

39.3

215

84.5

39.3

Modified segments wrap around corners and have no

do not count. To assist with measuring modified

segments in multiples of four feet, use the wall

modification calculator.

minimum separation. Attic walls and most cripple walls

FIGUIS			
Enter either		Floor Calculation Notes:	
Estimated % of floor area to be modified	9	The modified area of each structural member	
or		halfway to each adjacent member. For cross p	
Total area of <u>existing</u> floors	1211	SF diagonal members, the modified area extends	16 inches
Total area of <u>modified</u> floors	109	on either side. Exclude decks and additions. D	o not use
	タ	FAR guidelines.	

Foundations

33.0]	Foundation Calculation Notes:
		Foundation Calculation Notes:
		Modification of a perimeter and pier and grade beam foundations are measured as percentage of length;
してフ	LF	Touridations are measured as percentage of length,
42	LF	Modification of a slab is measured as percentage of area
751	SF	iviodification of a stab is measured as percentage of area
		Whose view are added as sainfared secretary, the
460	SF	Where piers are added or reinforced, multiply the
Ð	SF	number of modified piers by the average spacing. Where
460	SF	one pier or anchor is added, count as a modification of 4
		NA difference of an anisting form deticate and analysis
	LF	Modification of an existing foundation to enable an
	LF	addition is included, but not a separate addition
	SF	foundation.
33.0	7	·
	751 460 0	751 SF 460 SF 0 SF 460 SF LF LF SF

Summary		For Planning Staff Only
Roof Modification (15%) 22・6 メ いち	3.39	If structural modifications exceed the level of
		modification indicated below, a discretionary application
Exterior Wall Modification (65%) ろり、多メ、65	25.5	is required.
Floor Framing Modification (10%) 9×1	' ව	☐ 65% ☐ Other*
Foundation Modification (10%) 33 ★ . \	3.3	☐ 50% ☐ No Maximum*
	33.09	*Explain:

APN: 027-103-19	Owner Name: ALEX VECCHIET	Date: 4.26.22
I certify that this worksheet is ac	curate. I understand that when the worksheet is	evaluated as part of the application review, if the proposed work exceeds
the established threshold, additi	onal permits, information, and fees may be requ	ired for my project.
Mrw	Frances	MICHAEL HEM - ARCHITECT
Signature		Print Name

DEMOLITION NOTES

- EXISTING WALL TO BE DEMOLISHED. REMOVE ALL ELECTRICAL AND PLUMBING BACK TO NEAREST JUNCTION AND CAP. COORDINATE WITH REQUIREMENTS OF NEW CONSTRUCTION.
- EXISTING PLUMBING FIXTURES AND FINISHES TO BE REMOVED. COORDINATE WITH REQUIREMENTS OF NEW CONSTRUCTION.
- REMOVE EXISTING WINDOW / DOOR. COORDINATE WITH REQUIREMENTS OF NEW CONSTRUCTION.
- DEMOLISH EXISTING CONCRETE SLAB, WALKWAY OR STEPS.
- DEMOLISH EXISTING WOOD DECK.
- DEMOLISH EXISTING NON-CONFORMING LAUNDRY / UTILITY ROOM WALLS, FLOOR, FOUNDATION AND ROOF (54 SF).
- DEMOLISH PORTION OF EXISTING BEDROOM 2 WALLS, FLOOR, FOUNDATION & ROOF (55 SF).

REMOVE EXISTING PORCH ROOF (62 SF). COORDINATE WITH REQUIREMENTS OF NEW

- REMOVE EXISTING ROOF FRAMING (176 SF). COORDINATE WITH REQUIREMENTS OF NEW CONSTRUCTION.
- DEMOLISH EXISTING NON-CONFORMING PORCH CONCRETE SLAB (78 SF).
- DEMOLISH EXISTING WALL AS REQUIRED FOR NEW OPENING. COORDINATE WITH REQUIREMENTS OF NEW CONSTRUCTION.
- EXISTING FLOOR FINISHES TO BE REMOVED. CLEAN SUBFLOOR AND PREPARE FOR NE FINISHES, TYPICAL.



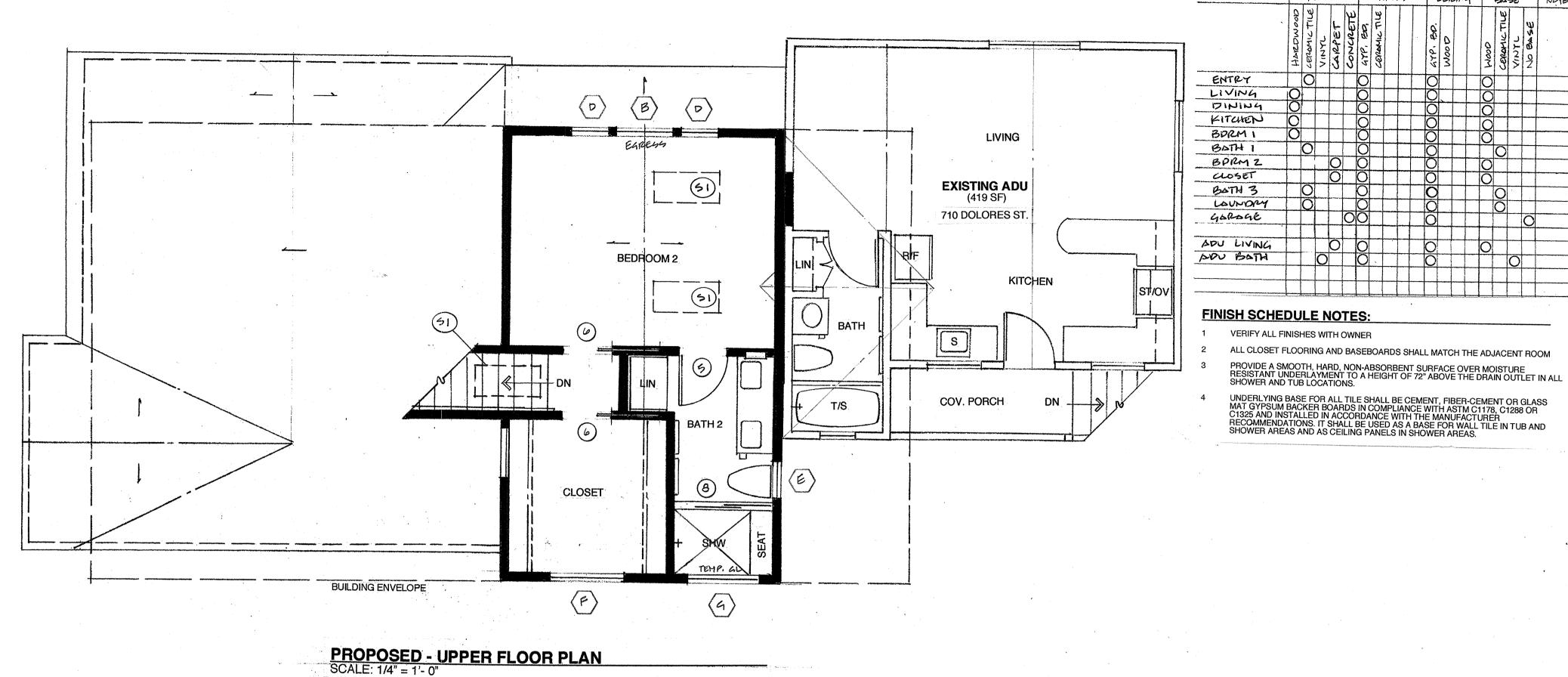
<u>LOWER FLOOR – DEMOLITION PLAN</u> SCALE: 1/4" = 1' - 0"

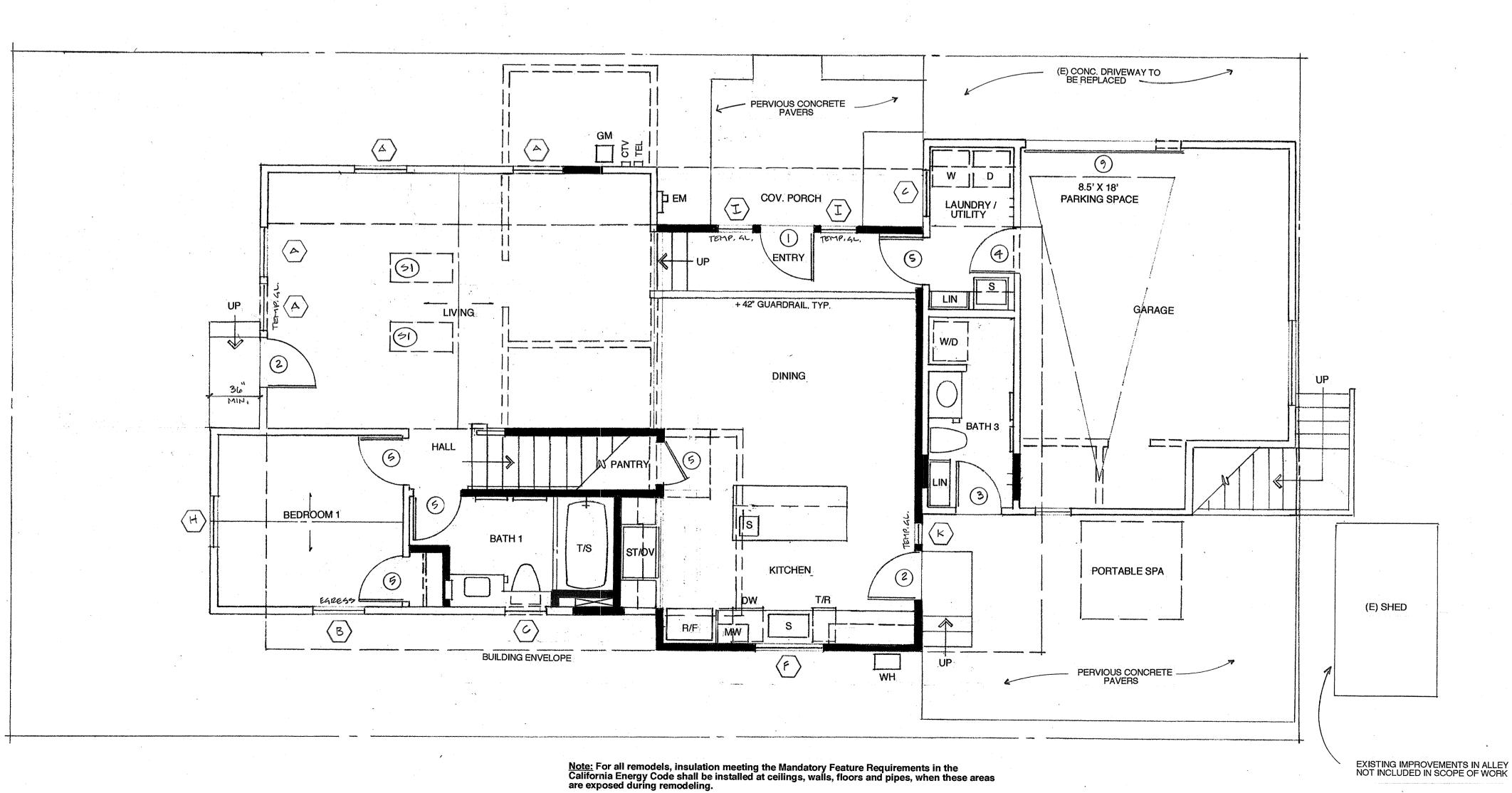
EXHIBIT D

Michael Helm

5-3.22 1/4=10

MEH.





PROPOSED - LOWER FLOOR PLAN
SCALE: 1/4" = 1'- 0"

DOOR SCHEDULE FINISH SCHEDULE

1200M NAME	FLOOR	WALLS	CEILING	BASE	NOTES	SYM	SIZE	TYPE	QUAN.	REMARKS
	HARDWOOD LEROMICTILE VINTL CARPET	1200 11c 71c	000	WOOD CERCANCTIVE VINTO NO BASE		1	3680	Custom Exterior Entry Door	1	Solid Core, Stain Grade Wood To be Owner approved
	HAPEDI LEPAMIL VINYL CARPE CONCE	47P, BY	MOOD T	WOOD CORONIC VINTE		(2)	3068	Ext., Single lite French Door	2	Clad/wood Sash, Tempered , Low E Dbl. Insulated glass
entry Living Dining	0		0	0 0		3	2868	Ext., Single lite French Door	1	Clad/wood Tempered , Low E Dbl. Insulated glass Obscure rain glass
BORM I BOTH I			0	0		4	2868	Interior, Garage Door	1	Paint Grade, Flat Flush, 20 min. labeled, solid core w/ self-closer & Weatherstrip
BPRM Z CLOSET			Ŏ	0		5	2868	Interior, MDF 3-panel	6	Paint grade solid core by Sun Mountain, Inc.
BOTH 3 LOUNDRY GORDGE			0	0 0		6	2868	Interior, MDF 3-panel Pocket Door	2	Paint grade solid core by Sun Mountain, Inc. Use Heavy-Duty Track & Roller
ADU LIVING	0 0	2	0	0		7	2860	Custom, Shower Door	1	3/8" Clr. 'Frameless' Tempered glass with chrome pull & hinges
adu Bath			0	0		8	5660	Custom, Bi-pass Shower Door	1	3/8" Clr. 'Frameless' Tempered glass with chrome pull
FINISH SCHE						9	9070	Sectional Garage 'Carriage Style'	1	Paint grade w/ frosted glass lite To be Owner approved

SYM MFG/SIZE TYPE

SKYLIGHT SCHEDULE VERIFY ALL FINISHES WITH OWNER

S 1	Velux, FSE-C06 21" X 45-3/4"	Deck mounted Electric 'Fresh Air'	5	Dbl. Insulated, tinted, Low-E w/ Laminated glass & blind
<u>WIN</u>	NDOW SC	HEDULE	international and committé devaité assentique les jours avec amin étéronise au contra de la suive	and the state of t
SYM	SIZE	TYPE	QUAN.	REMARKS
A	3046	Casement	4	Clad / wood Sash, Dbl. Insulated Low-E glass
В	3040	Casement	2	Clad / wood Sash, Dbl. Insulated Low-E glass
$\langle c \rangle$	2636	Casement	2	Clad / wood Sash, Dbl. Insulated Low-E glass
(D)	2040	Casement	2	Clad / wood Sash, Dbl. Insulated Low-E glass
E	2036	Casement	1	Clad / wood Sash, Dbl. Insulated Low-E glass
(F)	4030	Dbl. Casement	1	Clad / wood Sash, Dbl. Insulated Low-E glass
G	4020	Slider OX	1	Clad / wood Sash, Dbl. Insulated Low-E glass
(H)	3030	Fixed 4-lite	1	Clad / wood Sash, Dbl. Insulated Low-E glass
	2066	Dbl. Hung	1	Clad / wood Sash, Dbl. Insulated Low-E glass

REMARKS

Clad / wood Sash, Dbl. Insulated

Low-E glass

Jeld – Wen clad/wood windows overall standards comply with ANSI/ AAMA/ NWWDA/ 101/1.S.2.

a. All units are Gold Label Certified with label attached to frame per AAMA requirements, installation per AAMA 2400.

b. All insulated glass units conform to ASTM E2188 / E2190,

NFRC certified and labeled.

Note: The NFRC label which states the required U-value and SGHC for all fenestration products shall not be removed prior to inspection or the removal by a building inspector and shall reflect the values listed in the energy report.

CONST	TRUCTION	SCHE	DUIF

,	1	í
FOUNDATIONS	(N) 8" wide perimeter concrete stem wall with 8" X 16" Footing CONCRETE SLABS: 5" thick concrete slab w/ #4 bars @ 16" o.c. each way, on 15 mil vapor barrier on 6" crushed rock. CONCRETE MIX: Substitute Portland Cement with recycled flyash, 35% by volume, typical. Keep receipts for Inspector verification. TREATED LUMBER: Substitute ACQ pressure treatment for CCA products, typical. FORM BOARDS: Clean and re-use for scaffolding, forms, blocking, etc FORM RELEASE AGENT: Use Non-toxic soy based 0-VOC form release agent by BIO-GUARD CO. or Architect approved equal.	
FLOORS	2X DF #1 FJ's @ 16" o.c., with ¾" T&G plywood subfloor glued and nailed w/ 10d @ 6" o.c. edges & 10" o.c. field, U.N.O. with R-19 batt insulation.	
LOWER WALLS	7/8" Stucco finish over two layers of grade 'D' paper over 1/2" CDX plywood sheathing, nailed 10d @ 6" o.c. edges and 12" o.c. field, U.N.O., on 2X6 studs @ 16" o.c. with R-21 Insulation, 1/2" gypsum board interior finish, typical. Use low/No VOC exterior/interior paints.	
UPPER WALLS	5/16" James Hardie fiber cement lap siding over 'TYVEK' house wrap on 1/2" CDX plywood sheathing, nailed 10d @ 6" o.c. edges and 12" o.c. field, U.N.O., on 2X6 studs @ 16" o.c. with R-21 batt insulation, 1/2" gypsum board interior finish, typical. Use low/No VOC exterior/interior paints.	~~~
ROOF	Class B (min.) Asphalt Composition Shingle Roofing, install per mfg.	

Class B (min.) Asphalt Composition Shingle Roofing, install per mfg. specs over Dbl. layer 30 lb. felt over 5/8" CDX plywood sheathing nailed w/ nailed 10d @ 6" o.c. edges and 12" o.c. field, U.N.O., to 2X10 DF #1 rafters @ 24" o.c. with R-30 closed cell polyurethane foam insulation. Use plywood clips at all unsupported edges, 5/8" gypsum board interior finish, typical. Use low/No VOC exterior/interior paints.typical. Underlayment for asphalt shingles shall comply with ASTM D226 Type I; ASTM Type I, II, III or IV; ASTM D6757, and shall bear a label indicating compliance to the standard designation.

GUTTERS & DOWNSPOUTS 16 oz. copper half round gutters with 2" round downspouts. Downspouts are to deposit onto existing landscape areas to be absorbed on-site.

ROOF / WALL 16 oz. copper where shown or required. Pan flash all ext. door sills with 16 oz. copper solder all joints, typical FLASHINGS WINDOWS & EXT. GLASS DRS. Jeld - Wen - clad / wood sash with Dbl. insulated Low-E glass, Provide screens at all operable windows.

INSULATION FLOORS EXT. WALLS INT. WALLS

ROOFS

(N) R-19 fiberglass batts
(N) R-21 fiberglass batts
(N) 3-1/2" fiberglass sound batts
(N) R-30 closed cell polyurethane foam

Provide neoprene gaskets and 16 oz. copper roof jack / rain cap, typical. All exhaust vents shall be located a min. of 4' from or 1' above all roof or wall openings per CMC. All plumbing vents shall be located a min. of 10' from or 3' above all roof or wall openings per CPC. **ROOF JACKS** Use weatherproof wall jacks by QUICKFLASH or approved equal for plumbing, electrical and mechanical penetrations. **PENETRATIONS**

PAINTS, STAINS, ADHESIVES & SEALERS HVAC

Use Low / No VOC, water based products and solvent-free adhesives, Install gas-fired furnace with >90% AFUE, provide High Efficiency Filter

Provide ENERGY STAR rated, typical, provide cut sheets for inspector **APPLIANCES**

PLUMBING Install Low-flow toilets. Install Low-flow shower heads with the litters. CABINETS & Use formaldehyde-free particle board and MDF by MEDITE or approved equal for all cabinets and trim applications.

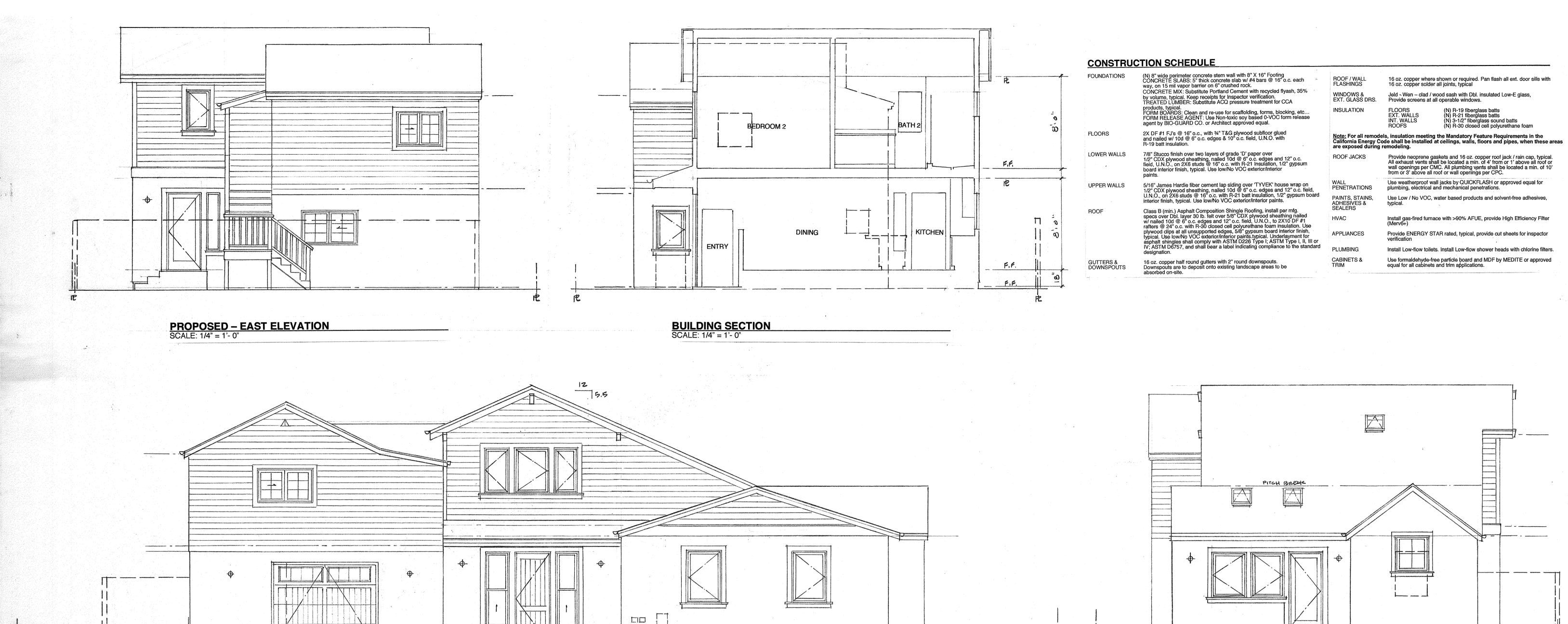
VECCHIET RESIDENCE
APN 027-103-19

- 7th AVENUE - SANTA CRUZ, CALIFOR

ssociates

5-3-22 1/4"=1:0"

MSH 2204



PROPOSED - NORTH ELEVATION
SCALE: 1/4" = 1'-.0"



MATERIALS / COLORS

PROPOSED - WEST ELEVATION SCALE: 1/4" = 1'- 0"

ASPHALT COMPOSITION SHINGLE ROOFING COLOR: CHARCOAL

GUTTERS: 4" – 16 OZ. COPPER – HALF ROUND

2X FIBER CEMENT COLOR: WHITE & TRIM

WALLS:

JAMES HARDIE HORIZONTAL FIBER CEMENT LAP SIDING, PAINTED COLOR: WHITE

LOWER WALLS: 7/8" STUCCO, PAINTED COLOR: LIGHT BEIGE

CLAD/WOOD SASH W/ DBL. INSUL GLASS COLOR: DARK BRONZE

STUCCO NOTE

3 coat, 7/8" Stucco finish over two layers of grade 'D' paper on 'TYVEK' house wrap on 7/16" CDX plywood or OSB sheathing, nailed w/10d @ 6" o.c. edges and 12" o.c. field, U.N.O., on 2 X 6 studs @ 16" o.c. with R-21 high density batt insulation. Provide a minimum 26 gauge galvanized corrosion resistant weep screed with a minimum vertical attachment of 3-1/2" provided at or below the foundation plate line at the exterior walls. The screed shall be placed a minimum of 4 inches above earth or 2 inches above paved areas.

CRAWL SPACE NOTE

PROVIDE 15 MIL VAPOR BARRIER ON THE EXISTING CRAWL SPACE SUB-GRADE. PROVIDE TAPE SEAL ON ALL SEAMS, AROUND ALL PIERS AND UP THE FOUNDATION STEM WALL TO CONTROL MOISTURE FROM MIGRATING UP INTO THE RESIDENCE.

EXHIBIT D

(N) R-19 fiberglass batts (N) R-21 fiberglass batts (N) 3-1/2" fiberglass sound batts (N) R-30 closed cell polyurethane foam

VECCHIET RESIDENCE
APN 027-103-19

- 7th AVENUE - SANTA CRUZ, CALIFOR

5-3.22

1/4"=1'0" Melt

Exterior lighting attached to any building shall be high efficacy, controlled by a manual ON and OFF switch that does not override to ON, and controlled by a motion sensor with photocontrol, or other methods allowed by CEnC 150.0(k)3

Ground-Fault Circuit-Interrupter (GFCI) protected receptacles shall be installed in bathrooms,

the front and the back of the dwelling. (CEC 210.52(E) GFCI outlets are required for all kitchen receptacles that are designed to serve countertop surfaces, in bathroom, in under-floor spaces or below grade level, in exterior outlets, and in all garage outlets

in readily accessible locations. (A) Where Required. All 15A or 20A, 120V branch circuits in dwelling units supplying outlets or devices in kitchens, family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, closets, hallways, laundry areas,

or similar rooms or areas. Cabinetry or being dedicated to appliances does not exempt

Exterior Outlets @ Grade: At least one readily accessible outlet from grade and not more than 6-1/2 feet above grade level shall be installed at the front and back of dwelling, be GFCI protected, and have a weatherproof enclosure.

Exterior Outlets @ Balconies, Decks, and Porches: Each balcony, deck, and porch shall have at least one readily accessible outlet not more than 6-1/2 feet above the walking surface, be GFCI protected, and have a weatherproof enclosure.

All recessed light fixtures shall be IC listed per CEnC 150.0(k)8

Fixtures installed in wet or damp locations shall be installed so that water cannot enter or accumulate in wiring compartments, lamp holders, or other electrical parts. Fixtures in wet or damp locations will be marked for such use. Lighting fixtures located within 3 feet horizontally and 8 feet vertically of the bathtub rim or shower stall threshold shall be listed for a damp location, or listed for wet locations where cubicated to the part was to call the listed for a damp location, or listed for

JA8 marking is required for the following:

All lighting must be high efficacy. High efficacy luminaires may require JA8-2016 or JA8-20160-E labeling. Per CEnE 150.0(k)1A, 150.0(K)1G, 150.0(K)2K Table 150.0-A

Recessed Down-light Luminaires in Ceilings: Recessed downlight luminaires in ceilings must be installed per CEnC150.0(k)1C, be listed IC rated, labeled for air leakage less than 2.0 CFM, be sealed with a gasket or caulk to the ceiling, have accessible ballasts/drivers if hardwired, not contain a screw base sockets, comply with JA8, and marked JA8-2016-E as specified in Reference Appendix JA8.

as specified in Reference Joint appendix JA8. Light sources not marked 'JA8-2016-E' shall not

that use bayonet mount-like twist-lock 2-pin connector instead of an Edison screw fitting. Any light source not otherwise listed above and certified to the Commission as complying with

outside each bedroom as well as one on every level. An additional smoke alarm is required inside each bedroom. Alarms in existing areas where access to the area above the ceiling is not possible may be powered by a D/C battery source. In the areas of new construction or existing rooms where the area above the ceiling is accessible, alarms must be powered by an A/C power source with a battery back-up and be interconnected.(CRC 314, 315).

Smoke detector/ alarms are to be provided with battery back-up and audible in all sleeping areas

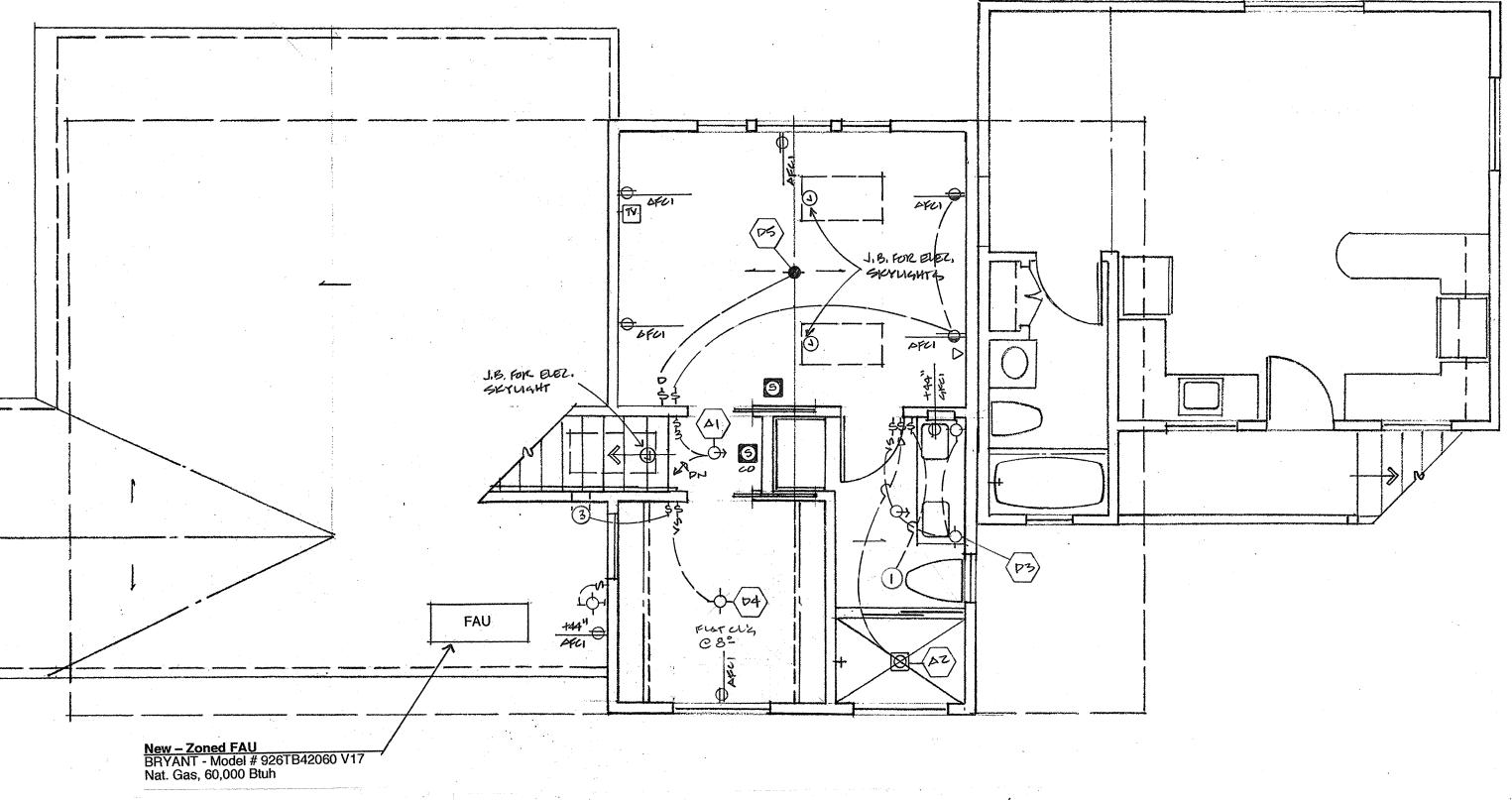
Provide exhaust fans in kitchen and each bathroom vented to outside and sized as follows. Kitchen: >/= 100 CFM intermittent, >/= 5 AC/h continuous with a tested static pressure of 25 wc, rated @ =/<3 sones. Fans to be attached to a minimum 5" diameter smooth duct, <70 lin. ft., subtract 15' of allowed length for each elbow.

Bathrooms: >/= 50 CFM intermittent, >/= 20 CFM continuous with a tested static pressure of 25 wc, rated @ =/<3 sones. Fans to be attached to a minimum 4" diameter smooth duct, <70 lin. ft., subtract 15' of allowed length for each elbow. Exhaust fan ratings to be </= 1 sone continuous, </= 3 sones intermittent Bath fans to be Energy Star compliant and equipped with humidistat controls for adjustment of relative humidity from 50 to 80%, per CalGreen code 4.506.1.

Provide a whole-building mechanical exhaust system to outdoor air at the minimum rate of

0.03 X 408 SF Htd. Area + 7.5 X (2 bedrms + 1) = 64,7 CFM req

Furnaces installed in attics and crawl spaces must have an access platform (catwalk in attics), light, light switch, and receptacle in the space.



ELECTRICAL SYMBOL LEGEND

DUPLEX OUTLET W/ ARC FAULT INTERRUPT CIRCUIT

DUPLEX OUTLET W/ WATERPROOF COVER

LIGHT SWITCH, 3 WAY

LIGHT, PENDANT

LIGHT SWITCH W/ DIMMER

LIGHT SWITCH W/ VACANCY SENSOR

LIGHT, CEILING SURFACE MOUNTED

LIGHT, WALL SURFACE MOUNTED

LIGHT, RECESSED DOWNLIGHT

LIGHT, RECESSED WALL WASHER

LIGHT, RECESSED ADJUSTABLE

LIGHT, RECESSED STEE

LIGHT, LINEAR STRIP

FAN/ LIGHT COMBO

GARBAGE DISPOSER

SMOKE DETECTOR

COMBO SMOKE/ CO DETECTOR

THERMOSTAT @ +60" ABOVE FIN. FLR.

EXHAUST FAN

TELEPHONE OUTLET

TV OUTLET

O----- DATA OUTLET

DUPLEX OUTLET W/ 1/2 SWITCHED SPECIAL PURPOSE 220 V. OUTLET

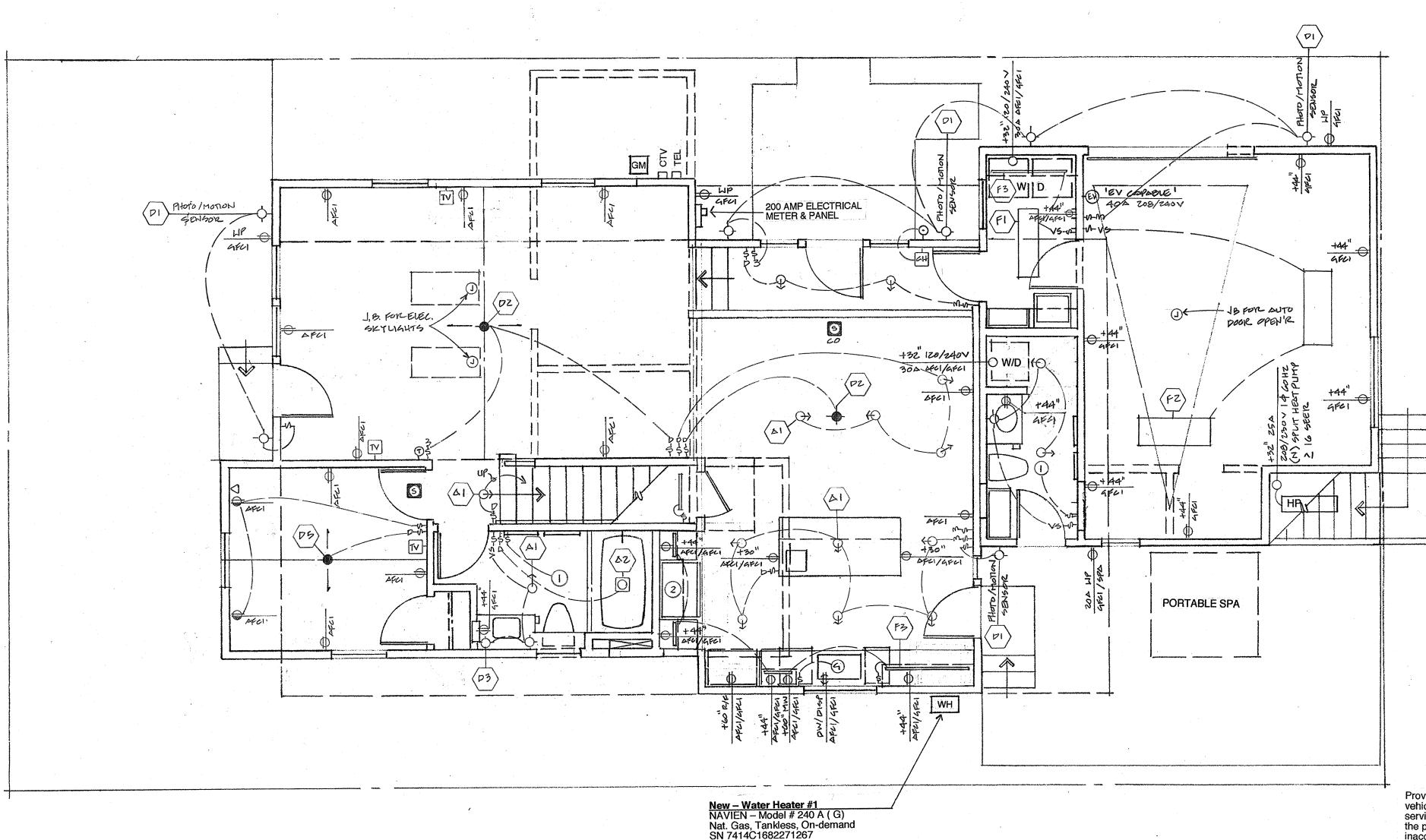
LIGHT SWITCH, +42" ABOVE FIN. FLR. TYPICAL

DUPLEX OUTLET, +12" ABOVE FIN. FLR., TAMPER RESISTANT, TYPICAL

DUPLEX OUTLET W/ GROUND FAULT INTERRUPT CIRCUIT

DUPLEX OUTLET W/ GROUND FAULT & ARC FAULT INTERRUPT CIRCUIT

UPPER FLOOR ELECTRICAL SCHEMATIC



LOWER FLOOR ELECTRICAL SCHEMATIC SCALE: 1/4" = 1'- 0"

An emergency switch for spa pools shall be clearly labeled for control of both the recirculation system and aeration and/or jet system shall be installed adjacent to the spa pool per CEC The power for the spa whether plug-cord or direct connected 120V through 240V shall be provided with GFCI protection per CEC 680.21(c) and 680.42. Not less than one 120V/15-20A receptacle outlet with GFCI protection shall be provided adjacent to the spa not closer than 6 feet nor further than 20 feet from the spa per CEC 680.22 (A)(1) & (4).

Installation shall conform all electrical requirements of CEC Article 680 Pools & Spas.

The disconnecting means for the power to the spa (100A sub-panel) shall not be less than 5 feet from the water's edge of the spa per CEC 680.12.

PORTABLE SPA NOTES

GROUNDING ELECTRODE (UFER) TO MAIN SERVICE EQUIPMENT COPPER BONDING WIRE - COPPER GROUNDING **ELECTRODE CONDUCTOR** GROUND: - TWO-GANG RING CLAMP GASKET, AND COVER — APPROVED GROUND CONNECTOR WATER PIPE -SEE DETAIL BELOW FOR CONNECTION TWO-BAR CONNECTION INSTALL SECOND 20'-0" UFER -PLACE STAKES OR GROUND FOR 201 AMPS TO 600 EQUAL FOR SUPPORT AMPS AT 90° OR 180° FROM FIRS SPACE EQUALLY ALONG

TWO-UFER BAR CONNECTION

UFER GROUND, OVER 600 AMPS

REFER TO NEC TABLE 250-66

NOTE: TO COMPLETE BONDING OF METALLIC PIPING SYSTEM INSIDE STRUCTURE A COLD WATER PIPE AT THE WATER HEATER TO THE GAS PIPING.

20 FOOT UFER WIRE OR

REBAR. SECURE IN PLACE

BEFORE PLACING CONCRETE

-- 1/2" REBAR OR #4 BARE

COPPER, 20-FOOT LONG

FOOTING FOR 200 AMPS

VENTILATION NOTES All **bathroom fans** are to be used for **Local Ventilation Exhaust**. Minimum 50 CFM fan tested at a static pressure of .25 wc and rated @ 3 sones or less required to be installed. Fan must be attached to a minimum 4" duct and no longer than 70' of **flex** duct. Subtract 15' of

All **kitchen range hoods** are to be used for **Local Ventilation Exhaust**. Minimum 100 CFM tested at a static pressure of .25 wc and rated @ 3 sones or less required to be installed. Fan must be attached to a minimum 5" **smooth** duct and no longer than 85'. Subtract 15' of allowed length for each elbow.

FER GROUNDING DETAIL

This fan is to be used for Whole Building Ventilation. Minimum 65 CFM fan tested at a static pressure of .25 wc and rated @ 1 sone or less required to be installed. Fan must be attached to a minimum 5" duct and no longer than 70'. Subtract 15' of allowed length for each elbow. Switch for fan must be labeled to indicate the fan's required function such as "Fan is to be left on to ensure indoor air quality".

LIGHTING FIXTURE SCHEDULE

Surface mounted 1' X 4' wrap around for (2) - F32 T8 lamps with electronic ballast. Manufacturer: Lithonia, Litepuffs 10640 GE F32 T8 / SPX 35 Electronic

Surface mounted 1.5' X 4' wrap around for (4) – F32 T8 lamps with electronic ballast. Manufacturer: Lithonia, Litepuffs 10642 Lamp & Mfg: GE F32 T8 / SPX 35 Lamp & Mfg: Ballast:

Surface mounted under cabinet task LED light. Manufacturer: WAC Lighting, Line, 3000K and & Mfg: 30" LN-LED30-30AL 24" LN-LED24-30-AL

Recessed adjustable retractable LED downlight. Manufacturer: WAC Lighting, Precision Multiples, 3000K Housing, MT-4LD116N-S-30-BK Trim, MT-4LD116T-WT

Recessed 4" LED shower light with opal lens Manufacturer: Lamp & Mfg: Remarks: Halo, **To be determined** 3500K Order with bar hangers

Wall mounted LED exterior light fixture. Manufacturer: To be determined Lamp & Mfg: Provide photo/motion sensor on exterior circuits,

Verify location of sensor prior to installation Owner approval required prior to ordering. Ceiling pendant mounted decorative light fixture. Manufacturer: Johnson Art Studio, Forged Tri-pod 122204 - 22" dia. Crystal sandblasted Disc shade, Black patina

Owner approval required prior to ordering Verify overall height prior to ordering Wall mounted LED decorative bath strip light. Manufacturer: Lamp & Mfg: Remarks: WAC Lighting, Brink, WS-77618-AL 3000K Mount vertically, Owner approval requ Mount vertically, Owner approval required prior to ordering.

(3) Luminance L7510 LED Lamps

Ceiling mounted decorative light fixture. Manufacturer: Johnson Art Studio, Ceiling Mount Disc shade 081805 - 18" dia. Crystal sandblasted Disc shade, Black patina
(3) Luminance L7510 LED Lamps Owner approval required prior to ordering

Ceiling pendant mounted decorative light fixture Manufacturer: Johnson Art Studio, Forged Tri-pod 121804 - 18" dia. Crystal sandblasted Disc shade, Black patina (3) Luminance L7510 LED Lamps Owner approval required prior to ordering Verify overall height prior to ordering

Provide a listed raceway to accommodate a dedicated 208/240-volt branch circuit for electric vehicle charging not less than 1" nominal inside diameter. The raceway shall originate at the main service or subpanel and shall terminate in a listed cabinet, box or enclosure in close proximity to the proposed location of the EV charger. Raceways are required to be continuous at enclosed, inaccessible or concealed areas and spaces. The raceway termination location shall be permanently and visibly marked as "EV CAPABLE". The service panel and/or subpanel shall provide capacity to install a 40-amp, minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overcurrent protective device. The service panel or subpanel shall identify the overcurrent protective device space(s) reserved for future EV charging as "EV CAPABLE". The charging circuit must be rated for continuous duty at 125% of load. All Electrical Vehicle Supply Equipment (EVSE) shall be installed in accordance with the California Electrical

Central heating equipment shall be supplied by an individual branch circuit. Verify electrical requirements for all mechanical equipment.

ELECTRICAL NOTES

All exterior, garage, kitchen and bathroom circuits shall be on GFCI circuits. Combination AFCI/GFCI outlets are required at kitchen and laundry areas. All 120-volt 15 & 20 amp branch circuits in dwelling units except those in kitchens, bathrooms, unfinished basements, garages and outdoors shall have AFCI protection. (CEC 210.12)

All Electrical work to comply with the latest adopted edition of the California Electrical Code.

One 20A circuit shall be provided to supply the bathroom receptacle outlets. Such circuit shall have no other outlets CEC 210.11(C).

Provide two small appliance branch circuits for Kitchen refrigerator and counter outlets only, not to include outside plugs, range hood, disposal, dishwasher or microwave Provide a dedicated 20 amp circuit to serve the required bathroom outlets. This circuit cannot

Provide a dedicated 20 amp circuit to supply laundry receptacle outlets. Dryer and cooking units shall have a four-prong outlet with four conductor wires with an insulated neutral.

Wall switches to be 42" @ centerline above finish floor. All outlets to be 12" @ centerline above finish floor, unless noted otherwise.

Dimmers or vacancy sensors shall control all luminaires required to have light source compliant with Reference Joint Appendix JA8 per Table 150.0-A Exceptions are provided for closets smaller than 70 sq. ft. floor area and light fixtures in hallways per CA Energy 150.0(k)3. At least one luminaire in bathrooms, garages, laundry rooms, and utility rooms shall be controlled by a vacancy sensor. (CEnC 150.0(k)2J)

Receptacles on 125-volt 15 & 20 amp circuits shall be listed tamper resistant. (CEC 406.12) Except when located more than 5.5' above the floor; within cabinets or cupboards; or when part of a

Receptacles must be installed at 12' o.c. maximum in walls. Walls longer than 2 feet and halls longer than 10' must have a receptacle. A receptacle must be provided within 3' of bathroom sinks. (CEC 210.52). Spacing of kitchen and dining room countertop receptacles shall meet minimum requirements of CEC 210.52(C), Parts 1-5.

garages, outdoors, crawl spaces, kitchen, unfinished basements, and receptacles within 6 ft. of the outside edge of laundry, utility, and wet sinks. All dwellings must have at least one exterior outlet at

not dedicated to a single device or appliance. (CEC 210.8) Arc-Fault Circuit-Interrupter (AFCI) protected receptacles shall be installed in all rooms not requiring GFCI protection. The maximum length of the branch circuit to the AFCI is 50 feet for 14 AWG conductors or 70 feet for a 12 AWG conductor. Arc-fault circuit interrupter protection must be provided in accordance with CEC 210.12(A), (B) and (C). AFCI devices shall be installed

Lighting in bathrooms, garages, laundry rooms & utility rooms must be controlled by a vacancy sensor per CA Energy Standard 150.0(k)2.K. Lighting in all other interior rooms like living, dining, bedrooms, etc. (except closets of less than 70 sq. ft.) shall be high efficacy with manual on occupancy switches or dimmers.

All installed lighting shall be high efficacy in accordance with Table 150.0-A of the California Energy Code. Exterior lighting shall be high efficacy or controlled by a photo/motion sensor per CEnC

All LED lighting shall be California Energy Commission certified to quality as high efficacy.

wet locations where subject to shower spray per CEC 410.10

Fixtures recessed into ceilings shall be listed for zero clearance insulation contact (IC) have a label that certifies that the fixture is airtight with air leakage less than 2.0CFMN at 75 Pascal's (AT), be sealed with a gasket or caulk to the ceiling, have an accessible ballasts/drivers if hardwired, and not contain a screw base socket. They shall contain light sources that comply with Reference Joint Appendix JA8, including the elevated temperature requirements, and that are marked "JA8-2106-E" Per CenC 150.0(K)(1)(C).

Screw Based Luminaires: Screw based luminaires shall be high efficacy and controlled by dimmers or vacancy sensors. Installed lamps shall be marked with 'JA8-2026' or JA8-2016-E'

11 A GU-24 lamp fitting is a 2-pin connector for compact fluorescent lamps (CFL) or LED lamps

Contractor must install or verify the existence of smoke alarms and carbon monoxide alarms

and shall be hard-wired and inter-connected per CRC R314.5.

An approved carbon monoxide alarm shall be installed in dwellings within which fuel-burning appliances are installed, and in dwellings with an attached garage. Carbon monoxide detector/alarms on all habitable levels and shall be hard-wired and inter-connected per CRC R315.1

Bathroom exhaust fans shall be switched separately from lighting system per CA Energy Code 70 CFM with a tested static pressure of .25 wc, rated @ =/<3 sones. Fans to be attached to a minimum 5" diameter smooth duct, <70 lin. ft., subtract 15' of allowed length for each elbow.

System to have an accessible off/on switch that is properly labeled. Covers and louvers for the whole house ventilation fan(s) shall be provided so that they close when the system is turned off. Covers or louvers shall have min. R 4.2 insulation value. Switch for fan must be labeled such as "Fan is to be left on to ensure indoor air quality".

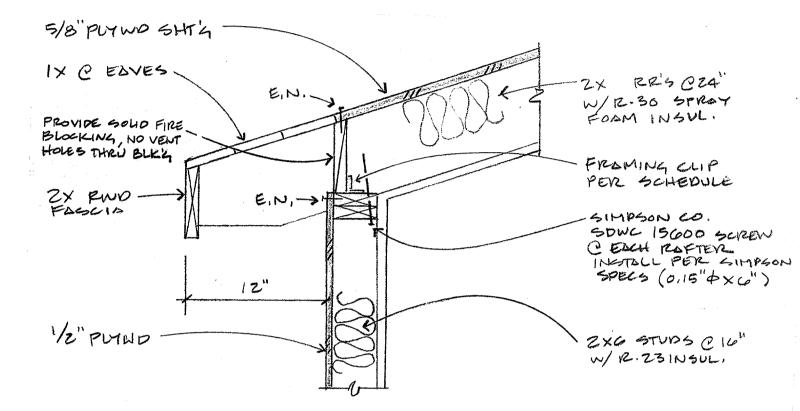
WHOLE HOUSE VENTILATION CALCULATION per CEC 150 (O) & ASHRAE 62.2 The thermal capacity of electric floor warming matt in bathrooms shall rot exceed 2 hillow the or 7,000 BTU/HR and shall be controlled by a time-limiting device not exceeding 30 r limits. Provide a dedicated circuit with GFCI protection.

RESIDEN 7-103-19

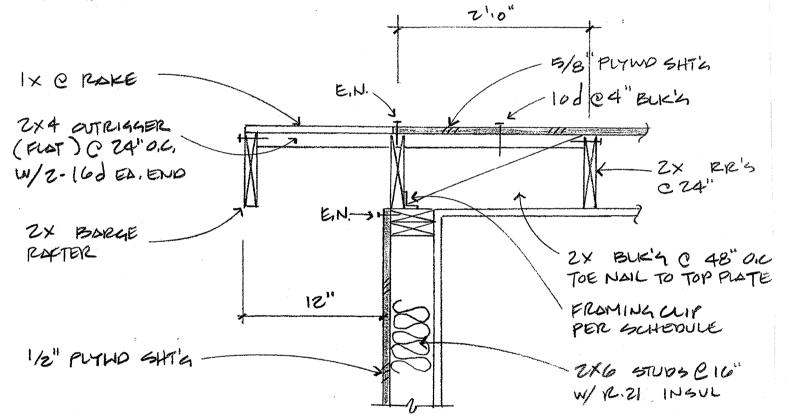
REMODEL / AC FCCHIET APN 0

5-3-22 1/4"=1:0"

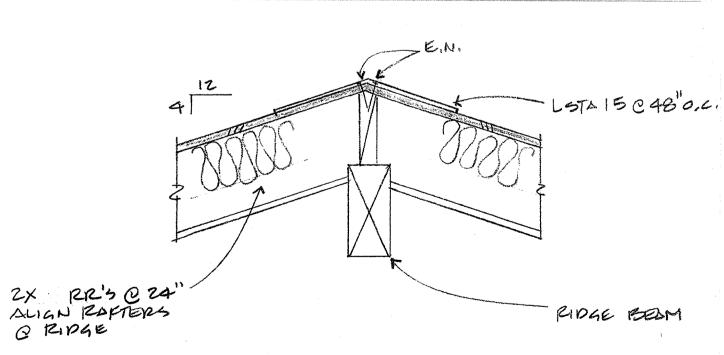
TANKLESS WATER HESTER - INSTALLATION SCHEMATIC



(2)	TYPICOL	EDVE	DETAIL
	1"=1'0"		



TYPICAL PAKE DETAIL



TYPICAL PIDGE DETAIL

GAS FIRED EQUIPMENT

MARK	HEAT IN	KBH	TOTAL	CFM ESP	OA	FAN RPM	M HP	OTOR V/PH	WT LBS	AFUE	MANUFACTURER AND MODEL	IANUFACTURER COMMENTS		
<u>F-1</u>	26 40	25	850	0.5	0	VAR	1/2	115/1	145	96	BRYANT 926TA36040V17	1 2 3		

- (1) PROVIDE DYNAMIC AIR FILTER IN STANDARD FILTER RACK, SEE WWW.DYNAMICAQS.COM. MERV 13 EQUIVALENT
- (2) 2-STAGE EQUIPMENT. PROVIDE HONEYWELL PRESTIGE IAQ THERMOSTAT.
- (3) EQUIPMENT SIZES APPROVED BY ACCA TO MEET ALL REQUIREMENTS OF MANUAL S 8TH EDITION

FANS

MARK	LOCATION	CFM	ESP	CFM CONT.		SONES OR TIP SPEED		OTOR V/PH	FAN RPM	MAX AMPS		CFM/ WATTS	MANUFACTURER MODEL		COMMENTS	
<u>EF-1</u>	BATH 1	80	0.25"	30	0.25"	0.4	NA.	120/1	1131	0.27	16.1	10.2	PANASONIC FV-05-11VKS1	1 2	4	

- (1) CEC IAQ REQUIRED VENTILATION-DO NOT MODIFY. PROVIDE MULTI SPEED AND TIME DELAY MODULE
- 2 PROVIDE OPTIONAL LUTRON OCCUPANCY SENSOR MODEL # MS-OPS5AM, OR EQUAL PER ARCH, AND LED NIGHT LIGHT & MOTION SENSOR MODULE
- 3 PROVIDE CONDENSATION SENSOR MODULE TO SATISFY HUMIDISTAT CONTROL PER 2019 CAL GREEN CODE SECTION 4.506
- (4) FAN SHALL BE ENERGY STAR RATED AND HAVE BUILT IN BACKDRAFT DAMPER

BRASS OR SCH-80 FVC
PIPE EXTENDING BEYOND
BACK OF WALK OR
PROPERTY LINE FOR FIRE &
DOMESTIC SERVICES.

REDWOOD OR PRESSURE

TREATED 2x4's UNDER SHORT OR LONG SIDES OF BOX

- INSTALL DUAL CHECK VALVE BACKFLOW DEVICE (SIZE TO MATCH METER)

- FIRE SERVICE

- DOMESTIC SERVICE

CUSTOMER-OPERABLE BRASS FIP x FIP CURE

STOP W/HANDLE &

DETAIL 4A

DOMESTIC BY FIRE COMBINATION SERVICE INSTALLATION

NOT TO SCALE

16 I.D. CHRISTY

PRE-CAST M.H.

W/ BOR GROTING

Z" PVC DISCHORGE PIPE THRU CURB

PUMP: GOULD MODEL DSP

6"CONCRETE PAD

W/#4@160GEW.

1/3 HP, 115V, 14 2400 APH & 10' HESD

CITY CUSTOMER
RESPONSIBILITY RESPONSIBILITY

ELEVATION VIEW

PLAN VIEW

BOX TYPE

BOX TYPE NON-TRAFFIC TRAFFIC

TYPE "16" CHRISTY B16 BOX W/ N16R LID OR EQUAL CHRISTY B1324 BOX W/ B1324-51JH LID OR EQUAL

TYPE "36" CHRISTY N36 BOX W/ FL36D LID OR EQUAL CHRISTY B1730 BOX W/ B1730-51JH LID OR EQUAL

WATER METER UPGRODE - SCWP 4A

SANTA CRUZ

Hudi R Luckentech

METER WILL BE SUPPLIED BY SCWD

NUTES

1. BRASS FITTINGS, VALVES AND PIPE SHALL CONSIST OF LOW-LEAD BRASS ALLOY AND SHALL HAVE A MINIMUM WORKING PRESSURE OF 150 PSI.

1. FIRE SERVICE LINE SHALL BE TESTED FOR LEAKS PRIOR TO BACKFILLING.

2. CUSTOMER SIDE FIRE SERVICE PIPE TYPE AND CONNECTION SHALL MEET LOCAL FIRE AGENCY REQUIREMENTS.

SUMP PUMP DETAIL

PERLIMETER GUBARAIN

FIN, GR

රිට

W/4" \$ LOVE 35 PERF. DISSINGINE

SEE DET. 1/3

CONSTRUCT LATERAL TRENCH PER DETAIL 14 LATERAL SIZE TBD BY FS SYSTEM DESIGNER

(5) WITH FACTORY LINT TRAP KIT. WIRE PER INSTALLATION GUIDELINES WITH DRYER CIRCUIT, PROVIDE ACCESS.

SHEET NOTES

- CONTRACTOR SHALL LABEL WHOLE HOUSE VENTILATION SYSTEM AND PROVIDE INSTRUCTIONS ON ITS USE.
- CONTRACTOR SHALL HAVE A COMPLETED FORM CF2R-MCH-27-H ON-SITE AT THE TIME OF INSPECTION.
- ALL EXHAUST OUTLETS SHALL MAINTAIN A MIN. 3' CLEARANCE FROM ANY OPERABLE OPENING. EXHAUST DUCTS SHALL BE EQUIPPED WITH BACK-DRAFT DAMPER PER SEC. 504.1.1 CMC
- ALL EXHAUST FANS SHALL BE EQUIPPED WITH FACTORY OR FIELD INSTALLED BACKDRAFT DAMPERS PER CMC 504.1. WHERE EXHAUST FAN DUCTS ARE COMBINED TO SERVE A SINGLE OUTLET, AN ADDITIONAL FIELD INSTALLED BACKDRAFT DAMPER SHALL BE USED TO PROVIDE GREATER PROTECTION
- RANGE HOOD SHALL VENT TO THE OUTSIDE PER MANUFACTURER'S REQUIREMENTS. IF OPEN COMBUSTION APPLIANCE OR FIREPLACE IS PRESENT, MAKE UP AIR MAY BE REQUIRED. CONFIRM RANGE HOOD SPECIFICATION.
- 6 PROVIDE MIN (2) 90 TURNS FOR SOUND ATTENUATION

DUCT SYSTEM INSTALLATION

- Duct installation shall be in conformance with chapter 6 of the 2019 CMC or as recommended by ACCA manuals D, J, S, SMACNA manuals, and/or the ASHRAE handbook if approved by officials having jurisdiction. Care shall be exercised to seal all joints and seams to prevent air leakage.
- Where shown on the mechanical plan and if necessary for other locations, provide rectangular duct of equivalent cross sectional area to the round duct shown to clear obstructions. Provide smooth transitions when the duct shape
- Flexible vibration isolation connectors shall be installed in sheet metal ductwork at the unit in both the supply and air intake; these shall not exceed 10.0 inches in length. Ductwork shall be properly aligned at these connectors without
- Metal ductwork shall be installed in a workman-like manner in accordance with acceptable practice given in the ASHRAE handbook or the SMACNA "low pressure duct construction standards" manual. Rigid sheet metal ducts shall be at least the minimum thickness required for their largest dimension and/or the static pressure to which they shall be subjected; they shall be provided with turning vanes or long radius bends both to reduce the pressure loss and to provide a more uniform velocity distribution downstream from the bend. All duct seams and joints shall be airtight and smooth fitting. These shall be sealed with products such as mastic and/or foil-backed tape recommended by the manufacturer for the location where they will be used.
- Rigid ductwork exposed to view shall be installed in such a manner as to present a neat appearance. The ducts shall
- be parallel to adjacent architectural surfaces and have as few joints as possible. All metal ducts shall be securely supported, hung, or suspended by metal hangers, straps, or brackets and the support material in contact with the duct, or external insulation, shall not be less than 0.75 inches wide. The hanger spacing for metal duct shall not be more than 10 feet for rectangular duct or 12 feet for round duct. Hangers exposed to view shall be plumb and neat in appearance. All rectangular metal ducts 24 inches or wider and all exterior ducts shall be cross broken or beaded to provide additional support. Ducts shall be insulated with fiberglass duct insulation to provide a minimum duct insulation value of r-6. Wye branches and diffuser boots shall be insulated on their exterior surfaces unless they are exposed to the weather, are exposed to view, or could be damaged during occupancy of the building. Any insulating material used shall meet the appropriate specifications required by ASTM e-84, c-553; NEPA 90b; and UL 181. Such insulation shall have 100% coverage and be installed in accordance with the manufacturer's

rchitect

Michael Helm

VECCHIET RESIDENCE
APN 027-103-19

- 7th AVENUE - SANTA CRUZ, CALIFOR

5-3.22

NTS

MSH

2204

- instructions. Flexible air duct shall be UL listed class 1 air duct made with a polyester interior, a moisture impervious sleeve and insulation having an overall r-value no less than 6. Foil covered duct shall be used in locations where high radiant heat loads may be expected. Performance and assembly shall be in strict accordance with details listed in the flexible ductwork manufacturer's applications manual or the SMACNA "flexible duct performance standards and flexible duct installation standards". Tight fitting mechanical clamps and mastic recommended for the location shall be used to seal all joints. Particular attention shall be taken to avoid kinks, sharp bends, or other such obstructions in the duct. Factory made flexible air ducts shall be installed according to their installation instructions and standards set by the code. Duct work shall use pressure-sensitive tapes, mastics, aerosol sealants or other closure systems meeting applicable UL 181A and B requirements. Drawbands used with flexible ducts shall be either stainless-steel, worm driven hose clamps or UV-resistant nylon duct ties. In addition, drawbands must have a minimum tensile strength rating of 150 pounds an db tightened as recommended by the manufacturer.
- Flexible air duct shall be supported at the manufacturer's recommended intervals but in no case shall the intervals between hangers exceed 4.0 ft. The hanger material shall be not less than 2.0 inch wide. The maximum permissible sag shall be 0.5 inch per foot of spacing between supports. Collars shall be used to attach flexible duct and shall be a minimum of 2.0 inches in length. Collars shall be inserted into the flexible duct a minimum of 1.0 inch before
- Readily accessible balancing or volume control dampers with outside locking devices shall be provided as shown on the mechanical plans and/or as needed to regulate the air flow to each register.
- 10. Supply and return plenums shall be covered with insulation having a value of r-6 or greater on their internal surfaces. Any insulating material used shall meet the appropriated specifications required by ASTM e-84, c-553; NEPA 90b; and UL 181. Such insulation shall have 100% coverage and be installed in accordance with the manufacturer's
- instructions. 11. Ductwork shall be installed so that it will not contact the ground.
- 12. Return air grill may be substituted, as desired, based on equal face area. 13. Boot area shall match grill area in all cases. If necessary, boots should be lined with acoustical lining to reduce noise
- 14. Plenum shall be lined with acoustical lining. 15. Flat ducts for wall registers shall be 3-1/4"x14" unless shown on the plans.
- 16. Termination of all environmental air ducts including direct vent termination kits shall be a minimum of 3 feet from or any openings into the building (i.e., dryers, bath and utility fans, etc., .must be 3 feet away from doors, windows, opening skylights or attic vents). .
- 17. Mechanical equipment and duct openings shall be protected during storage and rough installation per 2019 CAL Green section 4.504.1 to reduce the amount of dust or debris which may collect in the system.
- 18. Heating, ventilating and air conditioning systems (including hydronic systems) shall be balanced in accordance 2019 CMC Section 317.1 using the ACCA Manual B method.
- 19. Unless otherwise noted all accessible supply branches shall have manual volume control dampers for balancing, where inaccessible all supply grilles shall have factory OBD (opposed blade damper) for volume balancing.

- Air quantities shall be based on the 2019 California Mechanical Code. If located in a confined space, that space shall be provided with two permanent openings one within 12 inches of the top and one within 12 inches of the bottom of the enclosure. The openings shall communicate directly, or by ducts with the outdoors. When communication with the outdoors is through vertical ducts, each opening shall have a minimum free area of 1.0 square inch per 4000 btu per hour of total input rating of all equipment in the enclosure. When communication with the outdoors is through horizontal ducts, each opening shall have a minimum free area of 1.0 square inch per 2000 btu per hour of total input rating of all equipment in the enclosure. If approved by the administrative authority having jurisdiction, communication directly through an exterior wall may be considered as a vertical duct.
- 2. Duct openings shall be screened with metal mesh having openings of 1/4 inch. Provisions shall be made for the reduction in duct area due to the effects of screens, louvers, etc.

- Piping shall be new, standard weight wrought iron or steel (exterior-only galvanized or black), with malleable iron fittings. Approved PE (poly-ethylene) pipe may be used in exterior buried piping systems. 2. Exterior piping shall be protected by approved, machine applied protective coating. Field wrapping shall be limited to
- sections at joints and shall provide equivalent protection to the machine applied coating. 3. Gas lines may not be installed on or under the ground under buildings; they must be at least 6 inches above the
- 4. Gas lines shall be wrapped with insulation and sleeved where passing through concrete. Piping shall be protected
- where passing through framing using metal straps designed for the purpose.

MAJOR EQUIPMENT INSTALLATION

- 1. Installation shall meet all local and national codes pertaining to the installation and operation of plumbing equipment. Unless otherwise required by these standards, the equipment shall be installed in accordance with the equipment manufacturer's recommendations.
- 2. If "or equal" equipment is to be used, it must meet the performance specifications for the equipment listed, and shall receive prior approval from the mechanical engineer. All requests for substitution shall be furnished with sufficient engineering data to demonstrate that the proposed equipment full meets all the performance levels of the equipment originally specified. The contractor shall be responsible for all costs associated with the engineering for structural, electrical, duct sizing, etc. Caused by any substitution.
- 3. Units shall be installed to provide the clearance or clearances specified by the manufacturer or required by the authority having jurisdiction.
- 4. Units shall have suitable support to prevent transmission of objectionable noise or vibration generated by the equipment to the structure. Outdoor, ground mounted, units shall be located on a level, one piece, concrete pad.
- 5. Provide and install low voltage control wiring in conduit installed by the mechanical or plumbing contractor using methods contained in the electrical specifications. All wiring of line voltage controls to be accomplished by the
- sure that all electrical accessories such as motor a fully functional systems are provided.

R	E	G	15	T	E	R	S

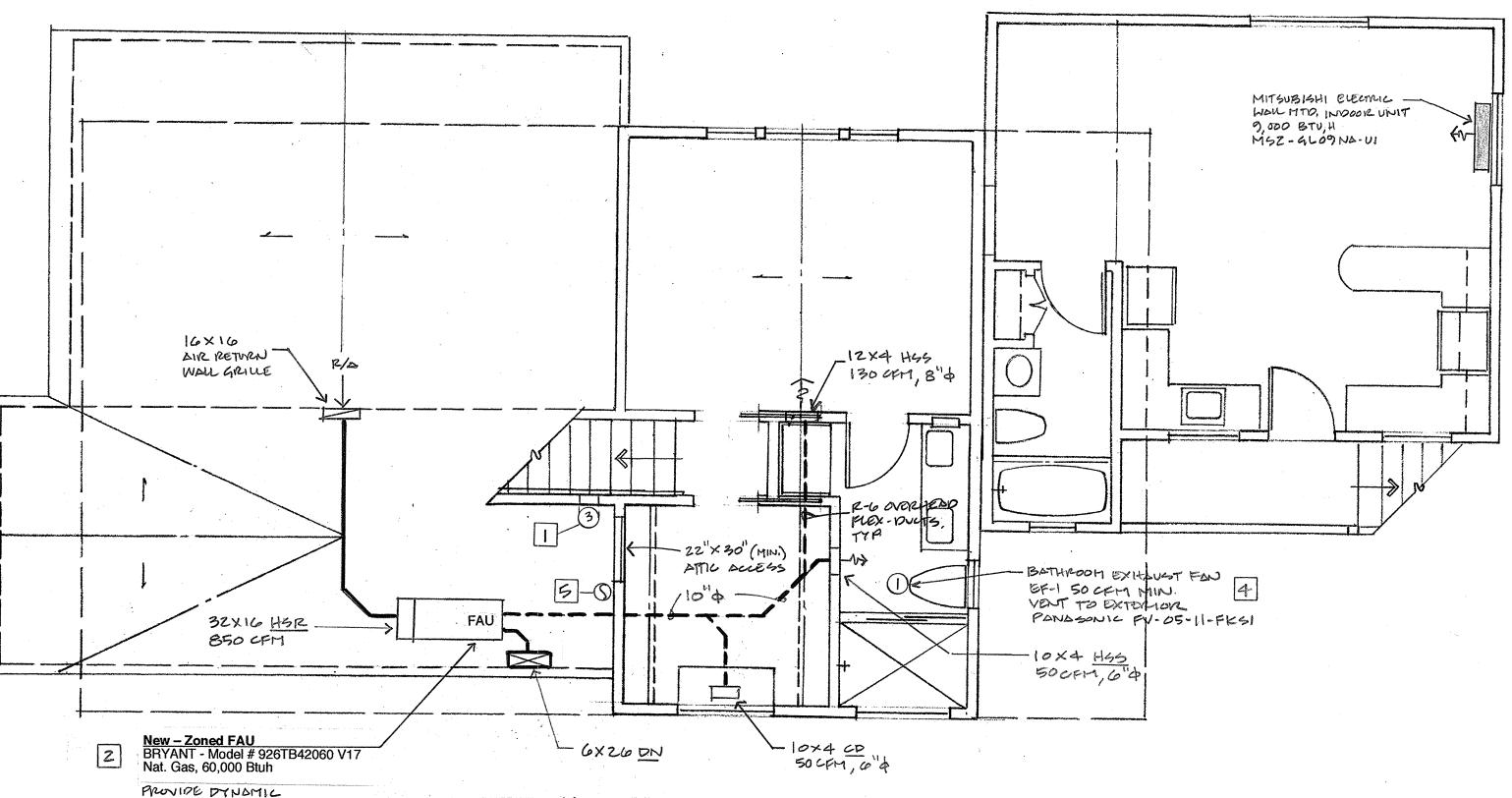
MARK	TYPE	MANUFACTURER MODEL	COMMENTS
CR	CEILING RETURN	TITUS CT-480 3 26 N 00-000 0	1
<u>CD</u>	CEILING DIFFUSER	TITUS CT-480 3 26 N 00-000 0	①
HSR	HIGH SIDE RETURN	TITUS CT-480 3 26 N 00-000 0	1
<u>HSS</u>	HIGH SIDE SUPPLY	TITUS CT-480 3 26 N 00-000 0	1
<u>TK</u>	TOE KICK	TITUS CT-480 4 26 N 00-000 0	1
LSR	LOW SIDE RETURN	TITUS CT-480 3 26 N 00-000 0	1
<u>FD</u>	FLOOR DIFFUSER	ПТUS CT-480 6 26 N 00-000 H	1

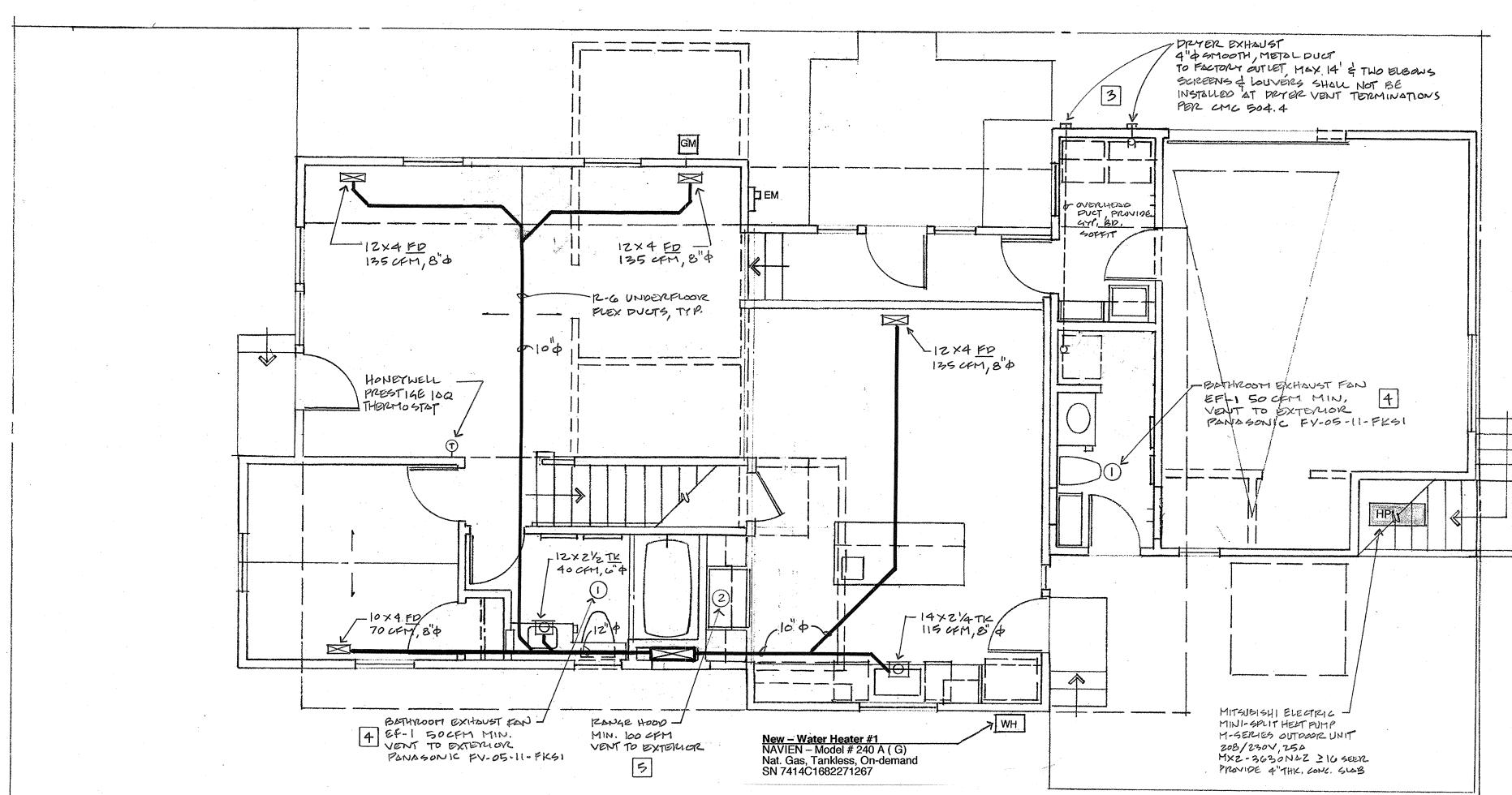
1 PROVIDE MILL FINISH OR CUSTOM PAINT COLOR SPECIFIED BY ARCH.

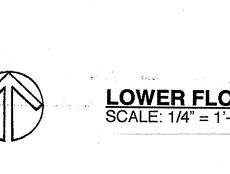
6. Cor	etrical contractor. ntractors shall co-ordinate with th ters, control relays, circuit breake	
		REGISTE
MARK	TYPE	MANUFACTURE MODEL
CR	CEILING RETURN	TITUS CT-480 3 26 N 00
<u>CD</u>	CEILING DIFFUSER	TITUS CT-480 3 26 N 00-
HSR	HIGH SIDE RETURN	TITUS CT-480 3 26 N 00
<u>HSS</u>	HIGH SIDE SUPPLY	TITUS CT-480 3 26 N 00
7717	707 1404	TITUS

1/4"=1:0"

2204

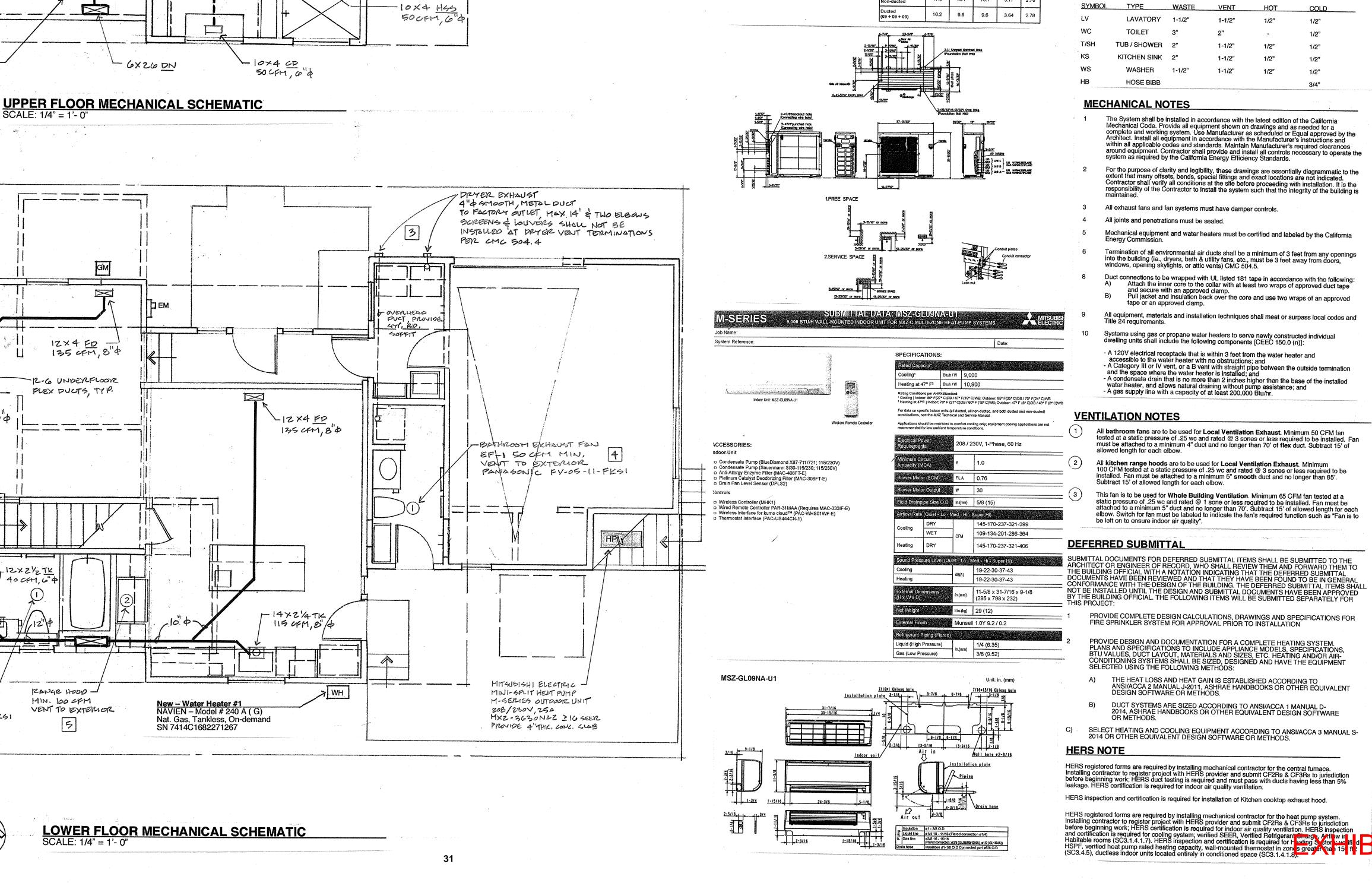


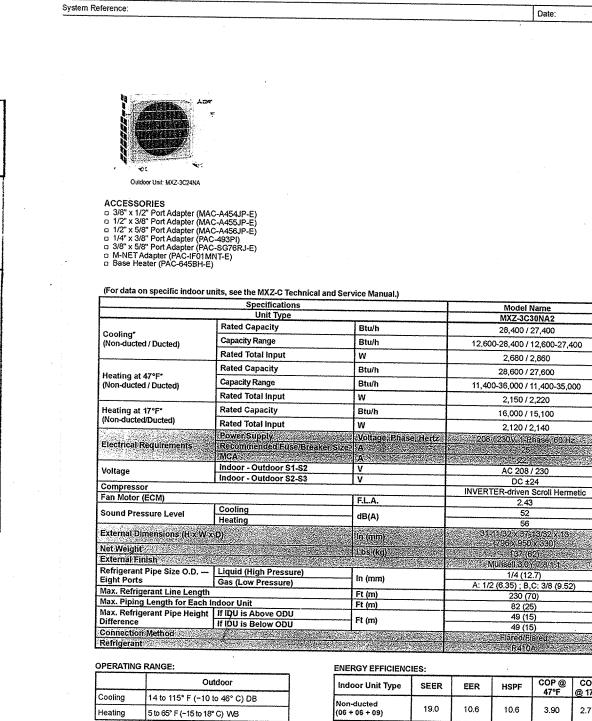




SIR FILTER

MERN 13 BOUNDLENT





M-SERIES

SUBMITACIONAVAVIVO PARA DINICA PARA DE MINICA PARA

PLUMBING NOTES

spray per CPC 408.9

WASHER

HOSE BIBB

TOILET

LAVATORY FAUCETS

KITCHEN FAUCETS

TUB / SHOWER VALVES

within all applicable codes and standards.

above the ground and pointed downward.

The Plumbing System shall be installed in accordance with the latest edition of the Plumbing Code. Provide all equipment as shown on drawings and as needed for a complete and working system. Use Manufacturer as scheduled or Equal approved by the Architect. Install all equipment in accordance with the Manufacturer's instructions and

Provide clean outs for every aggregate change in direction exceeding 135 degrees. If the water supply pressure exceeds 80 PSI, install an approved pressure regulator in an accessible location to reduce the service pressure to 60 PSI or less. Hose bibbs shall be protected by a backflow prevention device. Pressure relief valve shall extend to the outside of the building and terminate not more than two feet nor less than six inches

For the purpose of clarity and legibility, these drawings are essentially diagrammatic to the extent that many offsets, bends, special fittings and exact locations are not indicated. Contractor shall verify all conditions at the site before proceeding with installation. It is the

responsibility of the Contractor to install the system such that the integrity of the building

Provide pressure balance, thermostatic or combination pressure balance/thermostatic mixing valves at showers and tub-showers that provide scald and thermal shock protection (120 F max.). Verify at rough plumbing inspection per CPC sec. 408.3.

Water lines shall be insulated per CA Energy Code as follows; Install a minimum 1.5 inch thick insulation on all hot water pipes, all piping with a nominal diameter of 3/4 inch or larger, piping associated with recirculation systems regardless of pipe diameter, and cold water pipes for the first 5 feet from a storage tank, piping buried below grade, all hot water pipes from heating source to kitchen fixtures. Hot water pipes buried below grade must be installed in a waterproof and population putside.

grade must be installed in a waterproof and non-crushable casing or sleeve. Insulation outside conditioned space shall be protected per CEnC 150.0(j)2., Table 120.3-A, CPC 609.11

No domestic dishwashing machine shall be directly connected to a drainage system or food

Control valves and shower heads shall be located on the sidewall of shower compartment or otherwise arranged so that the shower head does not discharge directly at the entrance to the compartment and the bather can adjust the valves prior to stepping into the shower

PLUMBING FIXTURE MAXIMUM FLOW RATES

PLUMBING FIXTURE CONNECTION SCHEDULE

waste disposer without the use of an approved dishwasher air gap fitting on the discharge side of the dishwashing machine. Listed air gaps shall be installed with the flood-level (FL) marking at or above the flood level of the sink or drainboard, whichever is higher. CPC 807.3

1.28 GPF

1.2 GPM @ 60 PSI

1.8 GPM @ 80 PSI

1.8 GPM @ 60 PSI

Provide "DSA Certified" earthquake actuated shut-off valve at gas meter or regulator.

All building water supply systems in which quick acting valves (washing machines, dishwashers, etc., are installed, shall be provided with devices to absorb high pressures resulting from the quick closing of these valves.

Waste lines shall be ABS. Water supply piping shall be Type L copper below grade and Type L copper within the building. Gas piping shall be Schedule 40 black iron.

HERS registered forms are required by installing mechanical contractor for the central furnace. Installing contractor to register project with HERS provider and submit CF2Rs & CF3Rs to jurisdiction before beginning work; HERS duct testing is required and must pass with ducts having less than 5% leakage. HERS certification is required for indoor air quality ventilation.

HERS inspection and certification is required for installation of Kitchen cooktop exhaust hood.

HERS registered forms are required by installing mechanical contractor for the heat pump system. Installing contractor to register project with HERS provider and submit CF2Rs & CF3Rs to jurisdiction before beginning work; HERS certification is required for indoor air quality ventilation. HERS inspection and certification is required for cooling system; verified SEER, Verified Refrigerant Grange, Artiple in Habitable rooms (SC3.1.4.1.7). HERS inspection and certification is required for Heating System; verified HSPF, verified heat pump rated heating capacity, wall-mounted thermostat in zones greater than 155 ft? (SC3.4.5), ductless indoor units located entirely in conditioned space (SC3.1.4.1.8).

ARCHITECTURAL SPECIFICATIONS

GENERAL REQUIREMENTS

The Work under this contract includes furnishing all labor, equipment's, appliances, and materials required for construction of this home in strict accordance with these specifications and the applicable drawings subject to the terms of the contract.

GENERAL CONDITIONS

Before commencing any work under this contract, the CONTRACTOR shall have in his possession the necessary and required insurance as governed by the State of California; policies as follows:

a. Workmen's Compensation Insurance's: This policy shall cover the full liability of the contractor and his workmen. Each sub-contractor shall be required to provide the same for his workmen.

b. Public Liability Insurance: This policy shall cover the full liability and claims for damages for personal injury including accidental death.

- The Construction of this building shall comply with all applicable requirements and regulations set forth by the latest of the California Building Code; and all applicable requirements and regulations set forth by Labor Codes and local Ordinances.
- The CONTRACTOR shall inspect the site and familiarize himself with all local conditions and take full responsibility for maintaining ingress to and egrees from the site at all times.
- Temporary water and electricity shall be provided by the CONTRACTOR and he shall pay all installation and meter charges.
- Temporary toilet facilities shall be installed and maintained by the CONTRACTOR.
- The CONTRACTOR shall provide, procure, and pay for all building permits required for the execution of the contract and the completion of the job.
- During the execution of the work called for on the plane and in these specifications, the CONTRACTOR will be held responsible for any and all damage to existing adjacent property, structures, sidewalks, curbe, and autters.
- Upon the completion of the work, the building shall be broom cleaned and ready for occupancy. Finished surfaces scratched or damaged shall be refinished, resurfaced or replaced, as the case may be. The entire premises shall be clean and free from all debris and evidence of construction. Temporary facilities, construction and equipment shall be removed.
- 9. All concrete slabs, walls and driveways shall be adequately protected from damage from any source until acceptance of the work.
- The CONTRACTOR shall check and verify drawings as to scale and dimensions; and if errors appear in the drawings or conflicts in these specifications, the CONTRACTOR shall bring them to the attention of the OWNER.
- THE CONTRACTOR shall layout the building in accordance with the general location of the building as shown on the drawings. The CONTRACTOR shall furnish all engineering services necessary to the proper layout and construction of the building.
- The CONTRACTOR shall make no deviations from the drawings unless such deviations are approved by the OWNER.

EXCAVATION, GRADING, AND PAVING

See plane for extent of work. In general, this consists of preparing the site, excavation of foundation trenches, all fills and backfills, removal of excess material to area designated, spreading same and finish grading and paving on areas designated. Slope finish grade to drain away from building. All filled areas are to be keyed into hillside and compacted as required.

CONCRETE WORK

1. MATERIALS

The quality of the materials used in the concrete and the quality of the concrete shall conform to the physical and chemical properties as specified in C.B.C.

- a. Reinforcing wire Welded wire fabric 6" x 6" #10 (ASTM A185) b. Design mix for 2,500 pounds per square inch concrete at 28 days. (unless noted otherwise)
- c. Sill anchors to be 5/8" x 12" anchor bolts embedded 9" minimum, and located 3'-0" O.C. for two story structures and 4'-0" O.C. for single story structures. Place anchors within 12" of corners.
- d. Reinforcing steel shall be deformed, intermediate grade, conforming to ASTM A615-40

FIREPLACE AND BLOCK WORK

See plans for extent of masonry work to be included in this building OWNER is to select type of rocks or bricks prior to construction. The Masonry Contractor will design the lintel and flue as required by code.

FRAMING MATERIALS

All framing lumber shall be graded in conformance with the West Coast Lumber Inspection Bureau Grading Rules No. 16 as amended to date. Grades to be as follows unless noted otherwise on the plans:

- Mudeille-foundation grade redwood or equivalent treated materials.
- Posts and Beams- 4" & thicker D.F. #1(Para. 130-b) F.O.H.C.
- Joists and rafters- 2" to 4" thick, 6" & wider construction grade Douglas Fir #2 (Para. 125-c)
- Girders- construction grade Douglas Fir #1
- Stude- construction grade Douglas Fir #2 (Para 121-c)
- Plywood Flooring 3/4" Douglas Fir T & G exterior plywood CDX
- 7. Sub-flooring- Douglas Fir 2" x 6" T & G utility decking

- Exposed beams- Douglas Fir #1 select F.O.H.C. (Para. 130-b)
- Exposed ceiling -select Pine T & G decking
- Exterior decking- select "A" grade Redwood
- Sheathing Paper- #30 Bldg. paper Kraft type or equal

GENERAL FRAMING NOTES

- Floors to be level within 3/16" + all around.
- Structural members shall not be cut for pipes, etc. unless specifically shown or noted.
- Provide washers for all bolts.
- Use aluminum or galvanized nails for all exterior siding or trim.
- Use anchor hold type nails for all plywood flooring.
- All plywood floors and exterior decking to be glued with P.L-400 or
- Use cement coated 16^d sinker nails for framing.
- Provide an 18" x 24" minimum access area to underside of home.
- Provide access for bath tub trap; 20' maximum distance to all plumbing in crawl area.
- All stairways to have a maximum rise of 8" and a minimum tread width of 10". Provide headroom clearance of 7'-0" min. Install handrails as required 34" to 38" above treads.
- Unless indicated otherwise all headers are to be 4" x 12" D.F. #2.
- Double floor joists under all parallel wall partitions.
- All required handrails are to be 36" high and constructed to withstand a horizontal force of 20 pounds per lineal foot, applied at the top of the railing. Maximum spacing in handrails shall not exceed 6".
- 14. Provide an attic access of a t least 22" x 30".
- 15. Open flame for furnace and water heater shall be 18" above floor level if they are to be located in the garage.
- 16. Provide combustion air for furnace and water heaters required. Combustion air intakes to be located within 6" of floor and ceiling. Provide 6" clearance between furnace and combustibles.
- 17. If home has an underfloor crawl area, provide 2 square feet of vent space per each 25 linear feet of exterior wall.
- 18. Provide fire blocking at floor, ceiling, coves, and mid-height of walls over 10'-0" in height.
- 19. Provide 50 square inches of fixed vents per car to outside air within 6" of garage floor.

TRIM WORK

All external fascias shall be scarfed. No butt joints or spaced boards will be allowed. All trim connections should be tight and fit flush against the

All exterior redwood decking is to be installed in a craftsmanlike manner. Sand all mitered corners and exposed edges. Remove all sharp edges from handrails.

1/2" x 5/4" MDO PAINTARADE

CASING: 5/8" X 3" MOO PAINTGRADE

- a. Shelves 3/4" plywood or particle board with glued-on solid edge or
- plastic lid. Solid pine shelves may be used as a substitute. Clothee Pole-Hardwood 1-3/8" diameter. Provide an intermediate
- support for spans longer than 4'-0".
- Hook Strip 1" x 4" acts also as shelf support. d. Floor:

UNDERLAYMENT: Use 3/8" particle board under all resilient flooring except for slab areas. Nail 3" at edge 1/2" in and 6" in field each way.

DRYWALL:

Includes a complete gypsum board wall and ceiling installation as indicated on the drawings. Wall board shall be 5/8" recessed edge type board such as manufactured by U.S. Gypsum Co. or equal. Nails 5d-13 1/2 gauge, cement coated, flathead, 15/8" long. Taping, "Perfstape" joint reinforcing tape and cement as manufactured by U.S. Gypsum Co. Use 5/8", type"X" one hour fire-rated gypsum board between garage and home where indicated on the drawings, and under stairways.

All Exterior corners to have metal edges. The best workmanship and construction practices are required. In the event the Drywall Contractor finds crooked walls or bad joints occurring in the frame structure then these should not be covered but brought to the attention of the CONTRACTOR so they may be fixed prior to covering with drywall. Special care must be taken to protect and preserve the finish wood surfaces. All doors and window sills to be trimmed flush with openings. All scraps to be hauled away within 3 days of hanging. Do not break joints at plates in stairwells, header connections, or at plates on two story high walls. All recessed kitchen lights to have clean straight lines. Keep sheetrock within 3/16" of all rough in boxes.

THERMAL INSULATION:

P-30 CLOSED CELL POLY METHENE FORM

Ceiling: R-30 C FLOT CUAS

R-21 C 2x6 WALLS / R-15 C 2x4 WALLS

R-19 @ POISONS

Weather-stripping: At all windows and doors, typical.

Special Notes: Provide 3-1/2" sound insulation between floors and in walls around all bathrooms, all bedrooms and laundry room.

SHEET METAL:

All sheet metal shall be 16 Oz. Copper unless indicated otherwise on the drawings. Sheet metal work includes chimney saddles, gutters, downspouts, flashing, counter flashing and all other sheet metal not specifically a part of other trades. Fabrication and installation in accordance with the best workmanship standards is required. Soldered joints shall have continuous solder and be watertight. Free edges projecting from adjoining surfaces shall have metal bent on itself. Nails shall be copper.

Downspouts shall be of round design unless noted otherwise. Offsets shall be fully soldered. Connection to gutter shall be rigid and watertight. Fascia autter to be straight with all intersection soldered. Do not use short pieces.

Provide vents to kitchen fans, bath fans, gas ranges, gas heaters, and any other areas indicated on the drawings.

SPECIAL NOTES:

ROOFING:

SPECIAL NOTES:

SOPHOLI COMPUSITION SHINGLE ROBFING

TO BE OWNER / DRUMMENT APPROVED

DOORS:

See drawings for size, location, and type of doors needed. Interior doors shall be 13/8" solid core flush type unless indicated otherwise. Provide 13/8 " solid core door with self-closing hinge between home and garage. Sliding doors shall have tempered glass panels with operable screen panel. Sizes as indicated on drawings. Pocket door frames to be Nordal or

SPECIAL NOTES:

WINDOWS:

JELD-WEN CLOD MOOD See drawings for size and location of windows. Windows to be 🤄 🛆 . or approved equal. Provide ecreens for all openings. Windows shall be straight.

plumb, and true, and shall operate easily without binding.

SPECIAL NOTES:

FIXED GLASS:

See drawinge for size and location of fixed glass. All glazing shall be guaranteed water tight and any glass which leaks shall be re-glazed. Size glass to meet minimum C. B. C. requirements.

SPECIAL NOTES:

SHOWER DOORS AND MIRRORS:

See drawings for size and location of shower doors and mirrors. Shower doors to have approved shatter-proof glass. Mirrors to be 1/4 " polished plate glaøø.

SPECIAL NOTES:

HARDWARE:

An allowance of \$ 2500 is to be made for finish hardware. This is to include all door knobe, cabinet handlee, door, pulls, towel bare, paper holdere, etc. SPECIAL NOTES:

PAINTING:

MATERIALS: Paint materials shall be as manufactured by the Kelly-Moore Co. or an approved equal, unless otherwise noted.

WORKMANSHIP: No painting or finishing shall be done under conditions which jeopardize the quality of the work. Surfaces to be finished shall be in proper condition to receive same. Each coat shall be applied at the proper consistency, free of runs, sags, brush marks, spattering, or any other evidence of poor workmanship. Surfaces shall be sanded smooth. Nail holes and imperfections in the wood shall be filled with material of the same color as the finish. All items having factory finish will not be painted. All other surfaces shall be painted or finished whether specifically mentioned herein or not.

EXTERIOR SURFACES: Wood siding, trim, fascia, decks, beams, railings, treat with a semi-transparent or heavy body penetrating stain unless noted otherwise. Exterior doors use two coats of exterior type spar varnish. Prime all galvanized metal and coat with exterior flat enamel.

INTERIOR SURFACES: Natural woods use semi-transparent stain and sealer. Cabinets and wood doors to be sanded, stained, sealed, and lacquered. Drywall in kitchen and bath areas to be sealed and stippled. Other drywall areas to have one coat of interior flat latex wall finish. Special care should be taken to preserve natural woodwork. Work shall be neat, clean and accurate so as not to damage finish of natural wood surfaces. All surfaces not intended to have paint shall be left in clean

COLOR /PAINT TYPE TO BE OWNER APPROVED

TILE:

Tile shall be installed in accordance with the best methods and construction practices. Tiles are to be soaked before applying and joints are to be kept neat, symmetrical and all lines true and straight. Joints and tile shall be thoroughly washed. Owner to select color.

TO BE OWNER APPROVED

FLOORING MATERIALS:

An allowance of \$ 80/50.70. is to be made for floor coverings. This is to include all resilient flooring, carpete, and wood floors used in the project. Ceramic tile floore are not included in this allowance.

SPECIAL NOTES:

KITCHEN APPLIANCES:

Furnish and install the following: TO RE OWNER APPROVED

PLUMBING:

The Plumbing Contractor shall design and install a complete plumbing system as indicated on the drawings. Pipes shall be sized adequately to accommodate the fixtures served. The Plumbing Contractor shall make all necessary connections to utilities shown on plot plan and install all piping. etc. required. Stop valves should be at each fixture or appliance. Plumb system for future soft water system. Plumb for a least 4 exterior hose bibs or more if the size of the house indicates. Provide plumbing for automatic dishwasher. Provide a pressure relief valve at water heater. Provide a pressure reducer if water pressure exceeds 50 PSI.

SPECIAL NOTES: ATTINGS & FIXTURES TO BE OWNER APPROVED

ELECTRICAL:

The Electrical Contractor will design his system for a complete and operating system. The drawings show only the location and type of outlets. lighting, including control switches. No extra charges will be paid for furnishing items not specified in the plans but required by the local electrical codes. Provide doorbell as standard item. Provide all recessed, under counter, and soffit lighting if indicated on plans.

ELECTRICAL FIXTURES:

Provide an allowance of \$ 100/PER for fixtures not specified on plans and normal installation.

HEATING SYSTEM:

This system to be designed and installed by the Contractor doing the installation. Type of system:

GOS-FIRED FOU C MAIN RESIDENCE

ELEC, MINI-SPLIT HEAT PUMP @ ADU

GENERAL NOTES:

1. The CONTRACTOR and all sub-contractors shall guarantee and be responsible for and make good all defects due to faults of labor or materials in the work included in the contract for one year following the completion of the structure.

2. All sub-contractors will be responsible for damages caused by: poor workmanship, system failures, breakage, or their employees' irresponsibilities that cause additional time and expense to the general contractor. Sub-contractors will be charged for such items as they may occur for a period of one year after the home is completed.

EXHIBIT

32

VECCHIET RESIDENCE
APN 027-103-19
- 7th AVENUE - SANTA CRUZ, CALIFOR

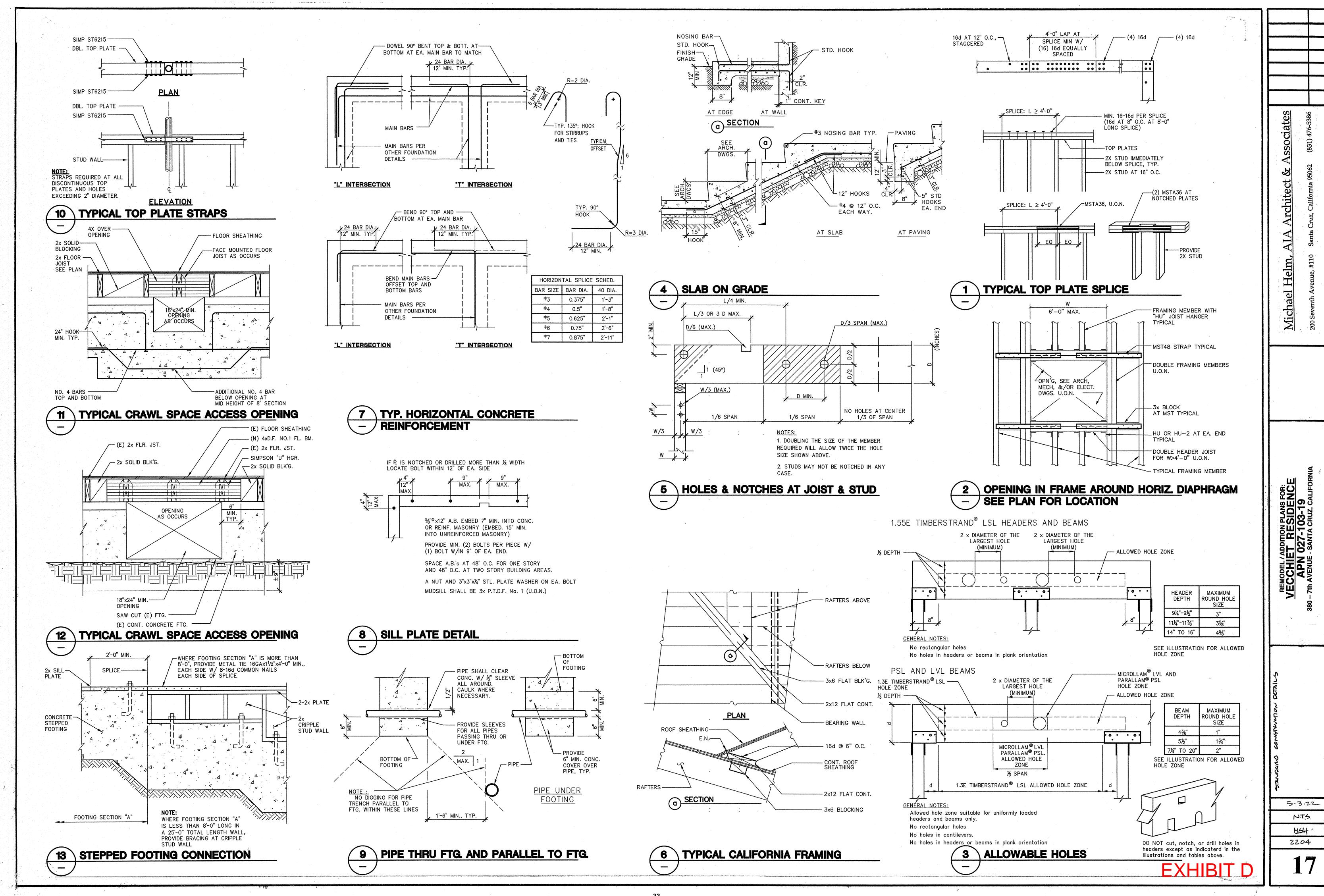
Architect

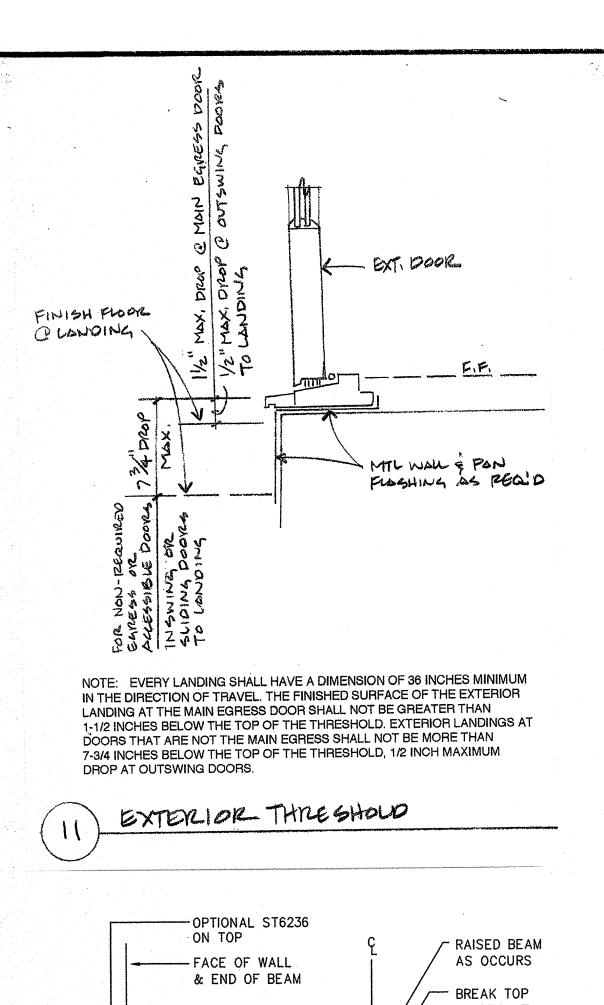
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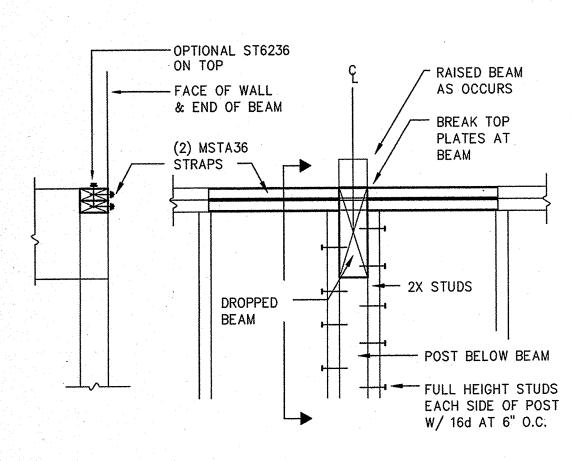
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5-3.22 NITIS.

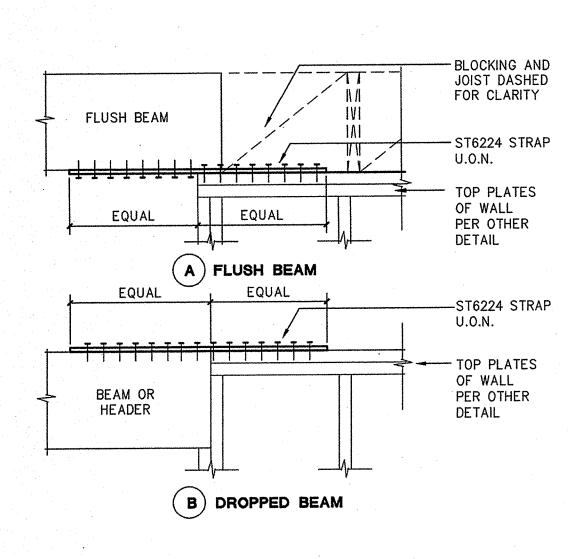
MEH. 2204



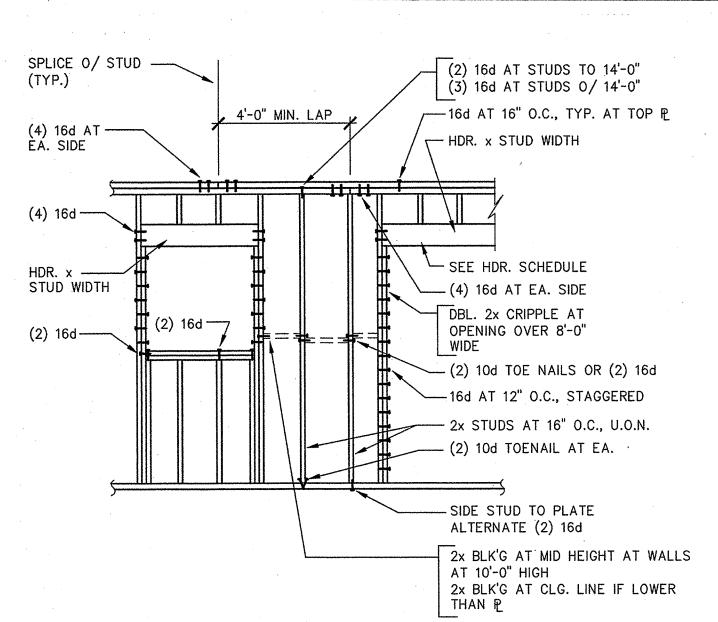








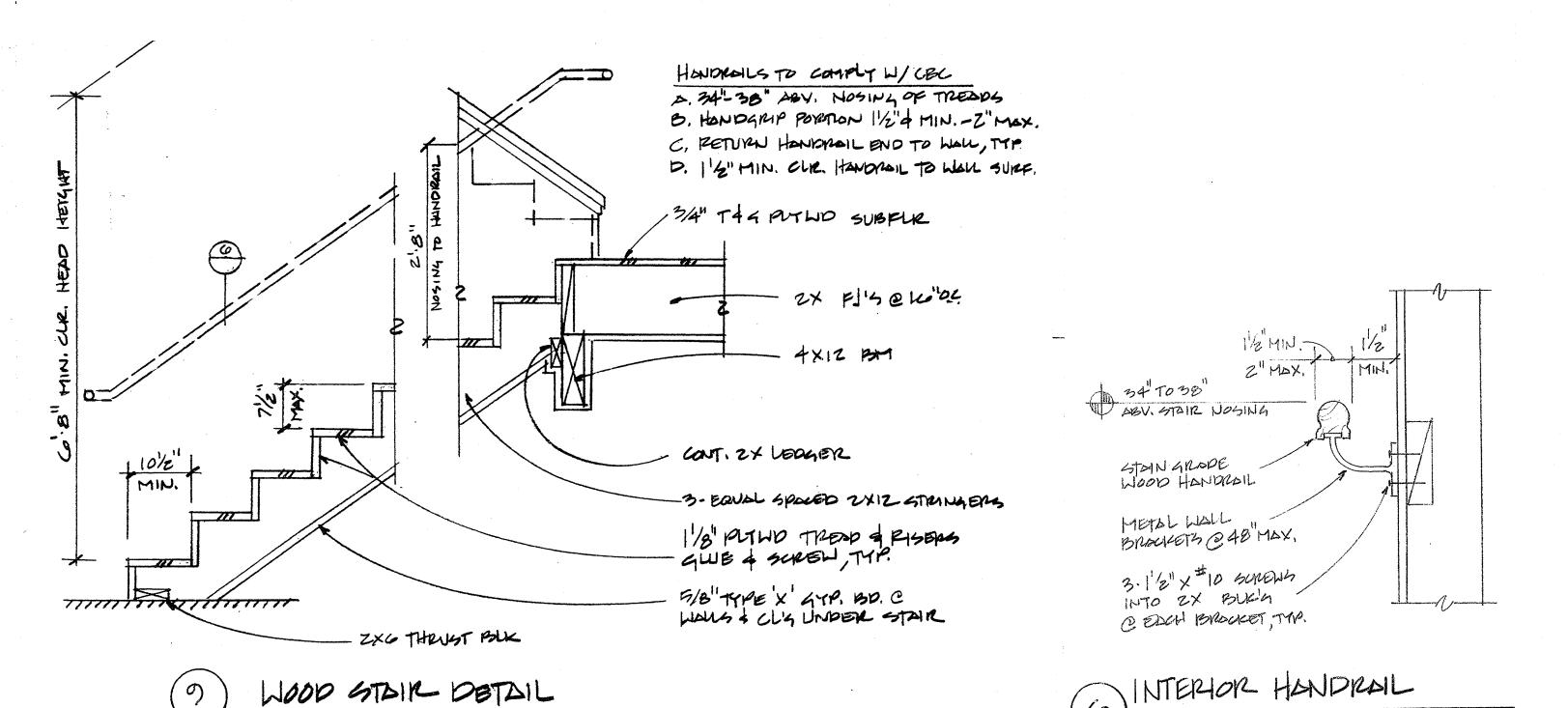
TYPICAL SHEAR COLLECTOR STRAP



TYPICAL STUD WALL DETAIL

LTP4 —— AT DOOR OPENING

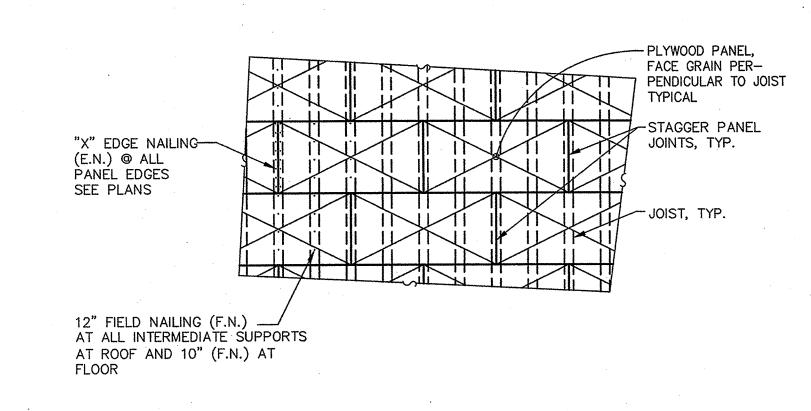
BEAM AND POST CONNECTION



3/4"= 10" ¢ COL. & BM. SPLICE - STAGGER HORIZ. PANEL JOINTS, TYP. OR USE FULL HEIGHT SHEETS WHERE POSSIBLE ... 24" PARTIAL SHEET AT MIN. WALL END ONLY - MST48 STRAP EDGE NAIL TO TOP PLATES STAGGER NAILS WHERE OCCURS SEE PLAN (U.O.N.) FULL SIZE PLYWOOD SHEET TYP. U.O.N. -BLK'G. AT PANEL EDGES SAME SIZE AS PANEL EDGE STUD CONTINUOUS BEAM -BEAM PER PLAN AT SIM. -FIELD NAILING POST AT HD -COLUMN CAP ROTATE STRAP TO @ 12" O.C. - ROTATE STRAPS AS REQ'D. TO CONCEAL EDGE NAIL TO HOLD DOWN HIDE IN FINISH ✓ EDGE NAIL AT BOLTS IN WALL, TYP. PANEL EDGES POST --6x POST, U.O.N. ANCHOR BOLTS POST END CAP b POST CAP SEE SCHEDULE . -PLYWOOD FACE GRAIN PARALLEL TO STUD EDGE NAIL TO SILL --EDGE NAIL TO - A35 EA. SIDE. SILL PLATE (USE LTP4 AT DOOR OPENING.) -SILL PLATE NAILING SEE SCHED. 7" MIN.— CONCRETE WOOD FLOOR

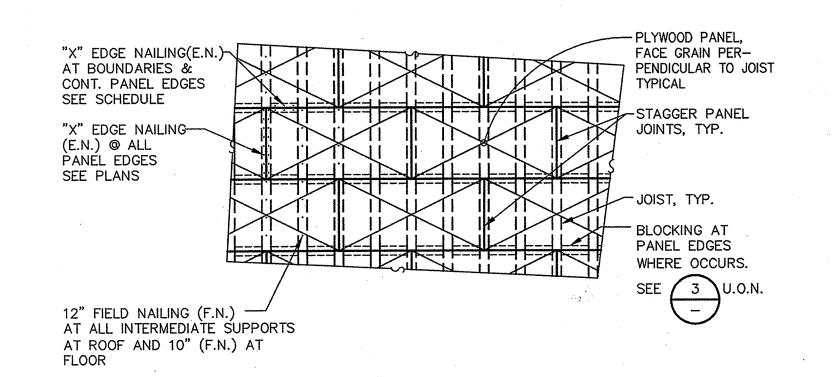
SHEAR WALL FRAMING ELEVATION

FLOOR CONDITION \ CONDITION



1. USE 10d COMMON NAILS AT FLOORS; 8d COMMON NAILS AT ROOFS. 2. GLUE PLYWOOD TO FLOOR FRAMING MEMBERS PRIOR TO NAILING. 3. MINIMUM PLYWOOD WIDTH IS 24". 4. SEE GENERAL NOTES FOR PLYWOOD THICKNESS & GRADE.

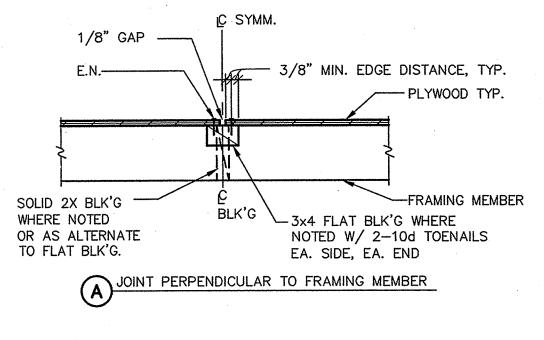
PLYWOOD SHEATHING AT ROOF AND FLOORS UNBLOCKED

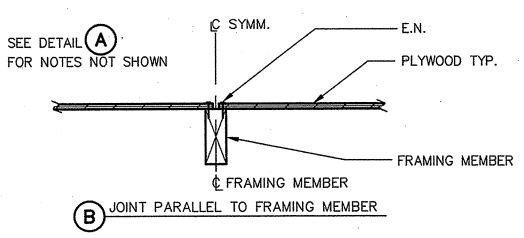


1. USE 10d COMMON NAILS AT FLOORS; 8d COMMON NAILS AT ROOFS. 2. GLUE PLYWOOD TO FLOOR FRAMING MEMBERS PRIOR TO NAILING 3. MINIMUM PLYWOOD WIDTH IS 24".

4. SEE GENERAL NOTES FOR PLYWOOD THICKNESS & GRADE.

PLYWOOD SHEATHING AT ROOF AND FLOORS REQUIRING SPECIAL BLOCKING AND EDGE NAIL SEE PLAN FOR LOCATION





PLYWOOD NAILING

EXHIBIT D

34

VECCHIET RESIDENCE
APN 027-103-19
- 7th Avenue - Santa CRUZ, CALIFOR

ssociates

Michael

5-3.22 NIT.S.

MEH 2204



2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

RESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2020, Includes August 2019 Supplement)

Y NVA RESPON. CHAPTER 3 **GREEN BUILDING SECTION 301 GENERAL** 301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7. 301.1.1 Additions and alterations. [HCD] The mandatory provisions of Chapter 4 shall be applied to additions or alterations of existing residential buildings where the addition or alteration increases the building's conditioned area, volume, or size. The requirements shall apply only to and/or within the specific area of the addition or alteration. Note: On and after January 1, 2014, residential buildings undergoing permitted alterations, additions, o improvements shall replace noncompliant plumbing fixtures with water-conserving plumbing fixtures. Plumbing fixture replacement is required prior to issuance of a certificate of final completion, certificate of occupancy or final permit approval by the local building department. See Civil Code Section 1101.1, et seq., for the definition of a noncompliant plumbing fixture, types of residential buildings affected and other important enactment dates. 301.2 LOW-RISE AND HIGH-RISE RESIDENTIAL BUILDINGS. [HCD] The provisions of individual sections of CALGreen may apply to either low-rise residential buildings high-rise residential buildings, or both. Individual sections will be designated by banners to indicate where the section applies specifically to low-rise only (LR) or high-rise only (HR). When the section applies to both low-rise and high-rise buildings, no banner will be used. **SECTION 302 MIXED OCCUPANCY BUILDINGS** 302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy. **ABBREVIATION DEFINITIONS:** Department of Housing and Community Development California Building Standards Commission Division of the State Architect, Structural Safety Office of Statewide Health Planning and Developmen Low Rise Additions and Alterations **CHAPTER 4 RESIDENTIAL MANDATORY MEASURES** DIVISION 4.1 PLANNING AND DESIGN **SECTION 4.102 DEFINITIONS** 4.102.1 DEFINITIONS The following terms are defined in Chapter 2 (and are included here for reference) FRENCH DRAIN. A trench, hole or other depressed area loosely filled with rock, gravel, fragments of brick or similar pervious material used to collect or channel drainage or runoff water. WATTLES. Wattles are used to reduce sediment in runoff. Wattles are often constructed of natural plant materials such as hay, straw or similar material shaped in the form of tubes and placed on a downflow slope. Wattles are also used for perimeter and inlet controls. 4.106 SITE DEVELOPMENT 4.106.1 GENERAL. Preservation and use of available natural resources shall be accomplished through evaluation and careful planning to minimize negative effects on the site and adjacent areas. Preservation of slopes, nanagement 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 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 adjace property, prevent erosion and retain soil runoff on the site. Retention basins of sufficient size shall be utilized to retain storm water on the site. 2. 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.

3. 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 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) 4.106.3 GRADING AND PAVING. Construction plans shall indicate how the site grading or drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following: 2. Water collection and disposal systems 3. French drains 5. Other water measures which keep surface water away from buildings and aid in groundwater Exception: Additions and alterations not altering the drainage path. 4.106.4 Electric vehicle (EV) charging for new construction. New construction shall comply with Sections 4.106.4.1, 4.106.4.2, or 4.106.4.3 to facilitate future installation and use of EV chargers. Electric vehicle supply equipment (EVSE) shall be installed in accordance with the California Electrical Code, Article 625. 1. On a case-by-case basis, where the local enforcing agency has determined EV charging and infrastructure are not feasible based upon one or more of the following conditions: 1.1 Where there is no commercial power supply. 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 dwelling unit. 2. Accessory Dwelling Units (ADU) and Junior Accessory Dwelling Units (JADU) without additional 4.106.4.1 New one- and two-family dwellings and townhouses with attached private garages. For each dwelling unit, install a listed raceway to accommodate a dedicated 208/240-volt branch circuit. The raceway shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall originate at the main service or subpanel and shall terminate into a listed cabinet, box or other enclosure in close proximity to the proposed location of an EV charger. Raceways are required to be continuous at enclosed, inaccessible or concealed areas and spaces. The service panel and/or subpanel shall provide capacity to install a 40-ampere minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overcurrent 4.106.4.1.1 Identification. The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE". 4.106.4.2 New multifamily dwellings. If residential parking is available, ten (10) percent of the total number of 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. 1. Construction documents are intended to demonstrate the project's capability and capacity for facilitating future EV charging.

2. There is no requirement for EV spaces to be constructed or available until EV chargers are installed

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.

or facilitating future EV charging.

2. There is no requirement for EV spaces to be constructed or available until EV chargers 4.106.4.3.1 Number of required EV spaces. The number of required EV spaces shall be based stations in the California Building Code, Chapter 11B.

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: 1. 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. 2. 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: Electric Vehicle charging stations serving public housing are required to comply with the California 4.106.4.2.2 Electric vehicle charging space (EV space) dimensions. The EV space shall be designed to comply with the following: 1. The minimum length of each EV space shall be 18 feet (5486 mm). 2. The minimum width of each EV space shall be 9 feet (2743 mm). 3. 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). 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. 4.106.4.2.3 Single EV space required. Install a listed raceway capable of accommodating a 208/240volt dedicated 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 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 capacity to install a 40-ampere minimum dedicated branch circuit and space(s) reserved to permit istallation of a branch circuit overcurrent protective device. 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 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 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 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 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 1. Construction documents are intended to demonstrate the project's capability and capacity

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 TABLE 4.106.4.3.1 NUMBER OF REQUIRED EV SPACES SPACES 10-25 26-50 2 4 76-100 101-150 151-200 10 6 percent of total

4.106.4.3.2 Electric vehicle charging space (EV space) dimensions. The EV spaces shall be designed to

1. The minimum length of each EV space shall be 18 feet (5486mm). 2. The minimum width of each EV space shall be 9 feet (2743mm)

4.106.4.3.3 Single EV space required. When a single EV space is required, the EV space shall be designed

4.106.4.3.4 Multiple EV spaces required. When multiple EV spaces are required, the EV spaces shall be designed in accordance with Section 4.106.4.2.4.

4.106.4.3.5 Identification. The service panels or sub-panels shall be identified in accordance with Section

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

DIVISION 4.2 ENERGY EFFICIENCY

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.

DIVISION 4.3 WATER EFFICIENCY AND CONSERVATION

4.303 INDOOR WATER USE 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,

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

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.

Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume

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

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

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 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.

Note: A hand-held shower shall be considered a showerhead.

4.303.1.4 Faucets.

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.

4.303.1.4.2 Lavatory Faucets in Common and Public Use Areas. The maximum flow rate of lavatory 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.

4.303.1.4.3 Metering Faucets. Metering faucets when installed in residential buildings shall not deliver

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

Note: Where complying faucets are unavailable, aerators or other means may be used to achieve

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 1701.1 of the California Plumbing Code.

> THIS TABLE COMPILES THE DATA IN SECTION 4.303.1. AND IS INCLUDED AS A CONVENIENCE FOR THE USER.

TABLE - MAXIMUM FIXTURE WATER USE			
FIXTURE TYPE	FLOW RATE		
SHOWER HEADS (RESIDENTIAL)	1.8 GMP @ 80 PSI		
LAVATORY FAUCETS (RESIDENTIAL)	MAX. 1.2 GPM @ 60 PSI MIN. 0.8 GPM @ 20 PSI		
LAVATORY FAUCETS IN COMMON & PUBLIC USE AREAS	0.5 GPM @ 60 PSI		
KITCHEN FAUCETS	1.8 GPM @ 60 PSI		
METERING FAUCETS	0.2 GAL/CYCLE		
WATER CLOSET	1.28 GAL/FLUSH		
URINALS	0.125 GAL/FLUSH		

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 Efficient Landscape Ordinance (MWELO), whichever is more stringent.

1. 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 available at: https://www.water.ca.gov/

DIVISION 4.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

4,406 ENHANCED DURABILITY AND REDUCED MAINTENANCE 4.406.1 RODENT PROOFING. Annular spaces around pipes, electric cables, conduits or other openings in sole/bottom plates at exterior walls shall be protected against the passage of rodents by closing such openings with cement mortar, concrete masonry or a similar method acceptable to the enforcing

4.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING 4.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65 percent of the non-hazardous construction and demolition waste in accordance with either Section 4.408.2, 4.408.3 or 4.408.4, or meet a more stringent local construction and demolition waste

Excavated soil and land-clearing debris. 2. 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

3. 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.

4.408.2 CONSTRUCTION WASTE MANAGEMENT PLAN. Submit a construction waste management plan in conformance with Items 1 through 5. The construction waste management plan shall be updated as necessary and shall be available during construction for examination by the enforcing agency.

1. Identify the construction and demolition waste materials to be diverted from disposal by recycling reuse on the project or salvage for future use or sale. 2. Specify if construction and demolition waste materials will be sorted on-site (source separated) or

bulk mixed (single stream). 3. Identify diversion facilities where the construction and demolition waste material collected will be

4. Identify construction methods employed to reduce the amount of construction and demolition waste

5. Specify that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.

4.408.3 WASTE MANAGEMENT COMPANY. Utilize a waste management company, approved by the enforcing agency, which can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with Section 4.408.1.

Note: The owner or contractor may make the determination if the construction and demolition waste materials will be diverted by a waste management company.

4.408.4 WASTE STREAM REDUCTION ALTERNATIVE [LR]. Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed 3.4 lbs./sq.ft. of the building area shall meet the minimum 65% construction waste reduction requirement in

4.408.4.1 WASTE STREAM REDUCTION ALTERNATIVE. Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed 2 pounds per square foot of the building area, shall meet the minimum 65% construction waste reduction requirement in Section 4.408.1

4.408.5 DOCUMENTATION. Documentation shall be provided to the enforcing agency which demonstrates compliance with Section 4.408.2, items 1 through 5, Section 4.408.3 or Section 4.408.4..

1. Sample forms found in "A Guide to the California Green Building Standards Code (Residential)" located at www.hcd.ca.gov/CALGreen.html may be used to assist in documenting compliance with this section.

2. Mixed construction and demolition debris (C & D) processors can be located at the California epartment of Resources Recycling and Recovery (CalRecycle).

4.410 BUILDING MAINTENANCE AND OPERATION

4.410.1 OPERATION AND MAINTENANCE MANUAL. At the time of final inspection, a manual, compact disc, web-based reference or other media acceptable to the enforcing agency which includes all of the

1. Directions to the owner or occupant that the manual shall remain with the building throughout the life cycle of the structure.

2. Operation and maintenance instructions for the following:

Equipment and appliances, including water-saving devices and systems, HVAC systems, photovoltaic systems, electric vehicle chargers, water-heating systems and other major

appliances and equipment.

b. Roof and yard drainage, including gutters and downspouts.

c. Space conditioning systems, including condensers and air filters.

d. Landscape irrigation systems.

e. Water reuse systems.

3. Information from local utility, water and waste recovery providers on methods to further reduce 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 and what methods an occupant may use to maintain the relative humidity level in that range. 6. Information about water-conserving landscape and irrigation design and controllers which conserve

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,

painting, grading around the building, etc. 9. Information about state solar energy and incentive programs available.

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 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

Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code Section 42649.82 (a)(2)(A) et seq. are note required to comply with the organic waste portion of

DIVISION 4.5 ENVIRONMENTAL QUALITY

SECTION 4.501 GENERAL 4.501.1 Scope

The provisions of this chapter shall outline means of reducing the quality of air contaminants that are odorous, irritating and/or harmful to the comfort and well being of a building's installers, occupants and neighbors.

SECTION 4.502 DEFINITIONS 5.102.1 DEFINITIONS

The following terms are defined in Chapter 2 (and are included here for reference)

AGRIFIBER PRODUCTS. Agrifiber products include wheatboard, strawboard, panel substrates and door cores, not including furniture, fixtures and equipment (FF&E) not considered base building elements.

COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, prefabricated wood I-joists or finger-jointed lumber, all as specified in California Code of regulations (CCR), title 17, Section

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.

EXHIBIT D

5-3.22

NTS

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2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

TABLE 4.504.2 - SEALANT VOC LIMIT

SEALANTS

ARCHITECTURAL

NONMEMBRANE ROOF

SEALANT PRIMERS

ARCHITECTURAL

NON-POROUS

MARINE DECK

OTHER

MODIFIED BITUMINOUS

COATING CATEGORY

FLAT COATINGS

SINGLE-PLY ROOF MEMBRANE

MARINE DECK

ROADWAY

OTHER

(Less Water and Less Exempt Compounds in Grams per Liter)

TABLE 4.504.3 - VOC CONTENT LIMITS FOR

GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT

ARCHITECTURAL COATINGS2,3

IANDATORY MEASURES, SHEET 1 (January 2020, Includes August 2019 Supplement)

VOC LIMIT

250

760

300

250

450

420

250

775

500

760

750

VOC LIMIT

100

150

sociates

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٧	N/A	RESPON. PARTY	
			MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base Reactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundredths of a gram (g O³/g ROC). Note: MIR values for individual compounds and hydrocarbon solvents are specified in CCR, Title 17, Sections 94700
		•	and 94701. MOISTURE CONTENT. The weight of the water in wood expressed in percentage of the weight of the oven-dry wood.
			PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging).
			Note: PWMIR is calculated 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
			ozone formation in the troposphere. VOC. A volatile organic compound (VOC) broadly defined as a chemical compound based on carbon chains or ring with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically containly drogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a).
	0		4.503 FIREPLACES 4.503.1 GENERAL. Any installed gas fireplace shall be a direct-vent sealed-combustion type. Any installed woodstove or pellet stove shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits applicable, and shall have a permanent label indicating they are certified to meet the emission limits. Woodstoves, pellet stoves and fireplaces shall also comply with applicable local ordinances.
	0		4.504 POLLUTANT CONTROL 4.504.1 COVERING OF DUCT OPENINGS & PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION. At the time of rough installation, during storage on the construction site and until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheet metal or other methods acceptable to the enforcing agency to reduce the amount of water, dust or debris which may enter the system.
_	-		4.504.2 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with this section.
0			4.504.2.1 Adhesives, Sealants and Caulks. Adhesives, sealant and caulks used on the project shall meet requirements of the following standards unless more stringent local or regional air pollution or air quality management district rules apply:
			1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules wher applicable or SCAQMD Rule 1168 VOC limits, as shown in Table 4.504.1 or 4.504.2, as applicable Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and tricloroethylene), except for aerosol products, as specified in Subsection 2 below.
			2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than 1 pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of California Code of Regulations, Title 17, commencing with section 94507.
			4.504.2.2 Paints and Coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Suggested Control Measure, as shown in Table 4.504.3, unless more stringent local lir apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categorie listed in Table 4.504.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in subsections 4.21, 4.36, and 4.37 of the 2007 California Air Resource Board, Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 4.504.3 shall apply.
			4.504.2.3 Aerosol Paints and Coatings. Aerosol paints and coatings shall meet the Product-weighted MIR Limits for ROC in Section 94522(a)(2) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(e)(1) and (f)(1) of California Code of Regulations, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Al Quality Management District additionally comply with the percent VOC by weight of product limits of Regulati 8, Rule 49.

4.504.2.4 Verification. Verification of compliance with this section shall be provided at the request of the

Manufacturer's product specification.

ARCHITECTURAL APPLICATIONS

INDOOR CARPET ADHESIVES

OUTDOOR CARPET ADHESIVES

WOOD FLOORING ADHESIVES

RUBBER FLOOR ADHESIVES

CERAMIC TILE ADHESIVES

VCT & ASPHALT TILE ADHESIVES

DRYWALL & PANEL ADHESIVES

STRUCTURAL GLAZING ADHESIVES

OTHER ADHESIVES NOT LISTED

SPECIALTY APPLICATIONS

PLASTIC CEMENT WELDING

CONTACT ADHESIVE

TOP & TRIM ADHESIVE

METAL TO METAL

PLASTIC FOAMS

WOOD

FIBERGLASS

ADHESIVE PRIMER FOR PLASTIC

SPECIAL PURPOSE CONTACT ADHESIVE

STRUCTURAL WOOD MEMBER ADHESIVE

SUBSTRATE SPECIFIC APPLICATIONS

POROUS MATERIAL (EXCEPT WOOD)

QUALITY MANAGEMENT DISTRICT RULE 1168.

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

PVC WELDING

CPVC WELDING

ABS WELDING

MULTIPURPOSE CONSTRUCTION ADHESIVE

SINGLE-PLY ROOF MEMBRANE ADHESIVES

SUBFLOOR ADHESIVES

COVE BASE ADHESIVES

CARPET PAD ADHESIVES

2. Field verification of on-site product containers.

TABLE 4.504.1 - ADHESIVE VOC LIMIT_{1.2}

(Less Water and Less Exempt Compounds in Grams per Liter)

ation may include, but is not limited to, the following:

VOC LIMIT

150

70

100

250

50

510

490

325

250

550

250

140

250

30

50

NON-FLAT COATINGS NONFLAT-HIGH GLOSS COATINGS SPECIALTY COATINGS ALUMINUM ROOF COATINGS BASEMENT SPECIALTY COATINGS BITUMINOUS ROOF COATINGS **BITUMINOUS ROOF PRIMERS BOND BREAKERS** CONCRETE CURING COMPOUNDS CONCRETE/MASONRY SEALERS DRIVEWAY SEALERS DRY FOG COATINGS FAUX FINISHING COATINGS FIRE RESISTIVE COATINGS FLOOR COATINGS FORM-RELEASE COMPOUNDS HIGH TEMPERATURE COATINGS INDUSTRIAL MAINTENANCE COATINGS LOW SOLIDS COATINGS: MAGNESITE CEMENT COATINGS MASTIC TEXTURE COATINGS METALLIC PIGMENTED COATINGS **MULTICOLOR COATINGS** PRETREATMENT WASH PRIMERS PRIMERS. SEALERS. & UNDERCOATERS REACTIVE PENETRATING SEALERS RECYCLED COATINGS **ROOF COATINGS** RUST PREVENTATIVE COATINGS SHELLACS CLEAR OPAQUE SPECIALTY PRIMERS, SEALERS & UNDERCOATERS

400 400 50 350 350 350 100 50 150 350 350 100 250 GRAPHIC ARTS COATINGS (SIGN PAINTS) 500 420 250 120 450 100 500 250 420 100 350 250 50 250 730 550 100 250 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** 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.

TABLE 4.504.5 - FORMALDEHYDE LIMITS MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION **CURRENT LIMIT** HARDWOOD PLYWOOD VENEER CORE 0.05 HARDWOOD PLYWOOD COMPOSITE CORE 0.05 **PARTICLE BOARD** 0.09 MEDIUM DENSITY FIBERBOARD THIN MEDIUM DENSITY FIBERBOARD2 1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIF. AIR RESOURCES BOARD, AIR TOXICS CONTROL WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIF. CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH

THICKNESS OF 5/16" (8 MM).

DIVISION 4.5 ENVIRONMENTAL QUALITY (continued) 4.504.3 CARPET SYSTEMS. All carpet installed in the building interior shall meet the testing and product requirements of at least one of the following:

2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM

1. Carpet and Rug Institute's Green Label Plus Program. 2. California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers" Version 1.1, February 2010 (also known as Specification 01350).

3. NSF/ANSI 140 at the Gold level. 4. Scientific Certifications Systems Indoor Advantagety Gold

4.504.3.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute's Green Label program

4.504.3.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 4.504.1.

4.504.4 RESILIENT FLOORING SYSTEMS. Where resilient flooring is installed, at least 80% of floor area receiving resilient flooring shall comply with one or more of the following:

Products compliant with the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.1, February 2010 (also known as Specification 01350), certified as a CHPS Low-Emitting Material in the Collaborative for High Performance Schools (CHPS) High Performance Products Database.

Products certified under UL GREENGUARD Gold (formerly the Greenguard Children & Schools program).

Certification under the Resilient Floor Covering Institute (RFCI) FloorScore program.

Meet the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers", Version 1.1, February 2010 (also known as Specification 01350).

4.504.5 COMPOSITE WOOD PRODUCTS. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure for Composite Wood (17 CCR 93120 et seq.), by or before the dates specified in those sections, as shown in Table 4.504.5

4.504.5.1 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:

Product certifications and specifications. 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

1. A 4-inch (101.6 mm) thick base of 1/2 inch (12.7mm) or larger clean aggregate shall be provided with a vapor barrier in direct contact with concrete and a concrete mix design, which will address bleeding, shrinkage, and curling, shall be used. For additional information, see American Concrete Institute,

2. Other equivalent methods approved by the enforcing agency. 3. A slab design specified by a licensed design professional.

4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS. Building materials with visible signs of water damage shall not be installed. Wall and floor framing shall not be enclosed when the framing members exceed 19 percent moisture content. Moisture content shall be verified in compliance with the following:

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

4.506 INDOOR AIR QUALITY AND EXHAUST 4.506.1 Bathroom exhaust fans. Each bathroom shall be mechanically ventilated and shall comply with the

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

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

b. A humidity control may be a separate component to the exhaust fan and is not required to be integral (i.e., built-in)

ecommendations prior to enclosure.

1. For the purposes of this section, a bathroom is a room which contains a bathtub, shower or 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:

The heat loss and heat gain is established according to ANSI/ACCA 2 Manual J - 2011 (Residential Load Calculation), ASHRAE handbooks or other equivalent design software or methods.
 Duct systems are sized according to ANSI/ACCA 1 Manual D - 2014 (Residential Duct Systems),

. Select heating and cooling equipment according to ANSI/ACCA 3 Manual S - 2014 (Residential

Exception: Use of alternate design temperatures necessary to ensure the system functions are

CHAPTER 7

INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

702 QUALIFICATIONS

702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:

2. Public utility training programs. 3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations.

4. Programs sponsored by manufacturing organizations. 5. Other programs acceptable to the enforcing agency.

702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:

Certification by a national or regional green building program or standard publisher.
 Certification by a statewide energy consulting or verification organization, such as HERS raters, building

performance contractors, and home energy auditors.

Successful completion of a third party apprentice training program in the appropriate trade.
 Other programs acceptable to the enforcing agency.

Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

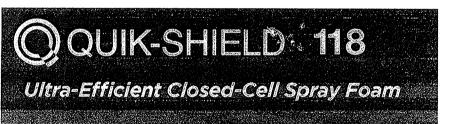
2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS)

[BSC] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.

Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

703 VERIFICATIONS

703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.



QUIK-SHIELD® 118 is the first Ultra-Efficient closed-cell, spray foam on the market today. It is specially formulated to increase jobsite efficiency, decrease labor and overhead costs, reduce jobsite risk, and deliver the lowest cost installed EXCEPTIONAL CONTRACTOR VALUE: Ultra lift—up to 8" applications Up to 50% increase in jobsite Keeps making good foam, even Long-Range Application

 Up to 20' application range TYPICAL PHYSICAL PROPERTIES*. PROCEDURE Core Density (minimum, lb/ft3) Water Vapor Permeance at 1.2" (perms/in) Water Absorption (%) D-2126 D-1623 Dimensional Stability (%) Tensile Strength (psi) D-1621 E-283

A SIDE (ISO)

< 0.02

B SIDE (RESIN)

Air Permeance at 1" (L/s.m²) E2178-13 THERMAL BARRIER DC 315 (wet mils) NFPA 286 RELATIVE INSULATION VALUES (aged): R-value per inch at >3.5"

Air Leakage (L/s.m²)

HANDLING PROPERTIES at 77°F (25°C):

- B-Side (resin): 6 months

RECOMMENDED PROCESSING INFORMATION (ADDITIONAL DETAILS ON BACK): Dispensing Ratio 115-140°F (46-60° C) Hose Heaters

115-140°F (46-60° C Dynamic Pressure (A&B) 1000 psi minimum Ambient Temperature² 25 - 130°F (-4 - 54° C) Drum Conditioning Temperature 55 - 80°F (12 - 27° C)

MIXING (ADDITIONAL DETAILS ON BACK): Do not mix

RECOMMENDED STORAGE AND SHELF LIFE (ADDITIONAL DETAILS ON BACK): Storage temperatures 40-100°F** (4-38° C). See back for preconditioning of material. Shelf life from date of manufacture (unopened containers)

Keep container tightly sealed. Store out of direct sunlight, in a cool dry place, avoid freezing.

Properties achieved in a lab environment at 77°F. Field conditions may cause variation in properties. * Caution: If the drum temperature is 80°F (26.6°C) or higher, use caution when opening the drum! The contents will be under pressure. ar entre a company de mandre de la company d

IBC, IRC, IECC: 2009, 2012, 2015

Appendix X compliant - no ignition

AC377 compliant

barrier needed

PACKAGING:

55 Gallon Drum

LEED INFORMATION:

FINISHED PRODUCT COLOR:

Type I-V construction

E-84, NFPA 285, E-119

INDUSTRY LEADING TEMPERATURES

Continuous use temperature ca

be as high as 257°F (125°C) and

Solid performance in all climates

including extreme heat and cold,

White to off-white (UV exposure will

Quik-Shield® 118 has a minimum of

5.2% post-consumer recycled

1.6% rapidly renewable

9% total renewable/recycle content

IEQ Credit-Low Emitting Materials

cause discoloration, discoloration

by itself is not a sign of product

it is dimensionally stable down to

5-3.22

NTS

2204

VECCHIET | APDIT | APDIT | APN 027 |

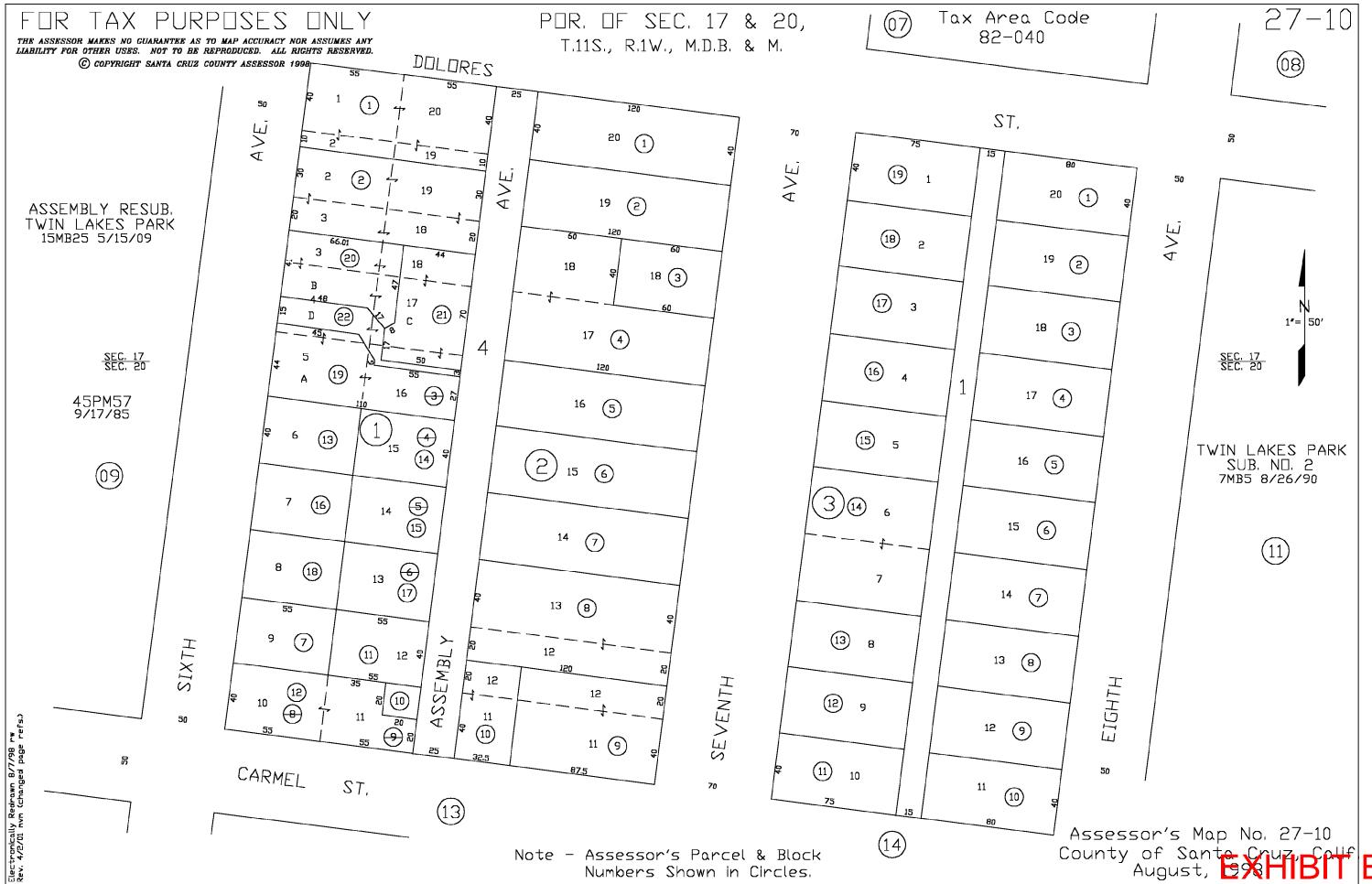
EXHIBIT D

ASHRAE handbooks or other equivalent design software or methods.

Equipment Selection), or other equivalent design software or methods.

DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE 2016 CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.

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TISSO.

SANTA CRUZ COUNTY PLANNING DEPARTMENT

Parcel Location Map





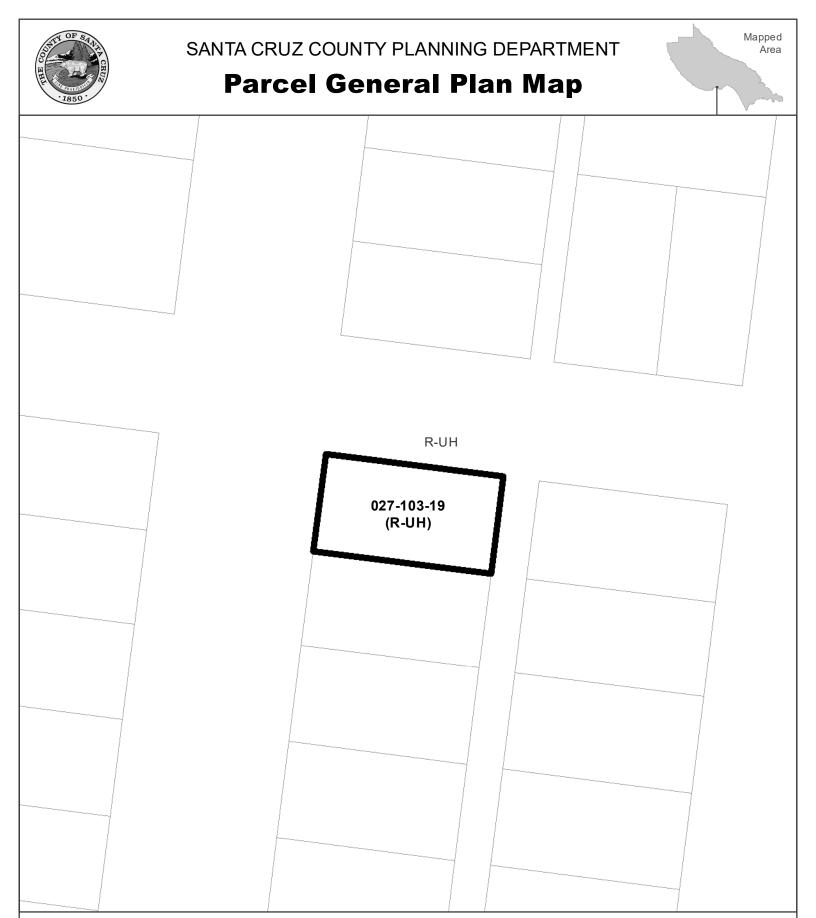
Parcel: 02710319

Study Parcel

Assessor Parcel Boundary

EXHIBIT E









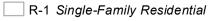


SANTA CRUZ COUNTY PLANNING DEPARTMENT

Parcel Zoning Map









Parcel Information

Services Information

Urban/Rural Services Line: X Inside Outside

Water Supply: City of Santa Cruz

Sewage Disposal: Santa Cruz County Sanitation District

Fire District: Central Fire Protection District

Drainage District: Zone 5

Parcel Information

Parcel Size: 3,000 square feet

Existing Land Use - Parcel: Residential
Existing Land Use - Surrounding: Residential
Project Access: Dolores Street
Planning Area: Live Oak

Land Use Designation: R-UH (Urban High Density Residential)

Zone District: R-1-3.5 (Single family residential - 3,500 square feet)

Coastal Zone: X Inside Outside
Appealable to Calif. Coastal Yes X No

Comm.

Technical Reviews: Soils Report Review (REV221177)

Environmental Information

Geologic Hazards: Not mapped/no physical evidence on site

Fire Hazard: Not a mapped constraint

Slopes: 0-2%

Env. Sen. Habitat: Not mapped/no physical evidence on site

Grading: No grading proposed

Tree Removal: One 14-inch d.b.h. palm tree to be removed

Scenic: Not a mapped resource

Archeology: Not mapped/no physical evidence on site