



**COMMUNITY DEVELOPMENT
DEPARTMENT**

Staff Liaison

Sean Moss | 510.215.4330
smoss@ci.el-cerrito.ca.us

AGENDA

REGULAR MEETING OF THE PLANNING COMMISSION

December 20, 2023 at 7:30 p.m.

City Council Chambers, El Cerrito City Hall
10890 San Pablo Avenue
El Cerrito, CA 94530

7:30 p.m. CONVENE REGULAR MEETING

- 1. ROLL CALL –** Chair Joy Navarrete, Vice Chair Daniel Hamilton; Members Brendan Bloom, Erin Gillett, Leslie Mendez, Abhijeet Singh, and Nathan Tinclair
- 2. COUNCIL/STAFF LIAISON ANNOUNCEMENTS AND REPORTS**
The City Council Liaison or City staff may report on matters of general interest to the Planning Commission, Council policies, priorities and significant actions taken by the City Council.
- 3. ORAL COMMUNICATIONS FROM THE PUBLIC**
Remarks are typically limited to three minutes per person, and may be on anything within the subject matter jurisdiction of the body. Remarks on non-agenda items will be heard first, remarks on agenda items will be heard at the time the item is discussed.
- 4. ADOPTION OF THE 2024 REGULAR PLANNING COMMISSION MEETING SCHEDULE**
Adoption of the regular meeting schedule for the 2024 calendar year.
- 5. ADOPTION OF MINUTES**
Adoption of the November 15, 2023 meeting minutes.
- 6. COMMISSIONER COMMUNICATION/CONFLICT OF INTEREST DISCLOSURE**
This time on the agenda is reserved for Commissioners to disclose communications from individuals regarding specific agenda items or to state a potential conflict of interest in relation to a specific agenda item.
- 7. CONDITIONAL USE PERMIT – 7211 VIEW DRIVE**
Application: PL23-0153
Applicant: Ran Haimoff
Location: 7211 View Drive
APN: 505-021-010
Zoning: RS-5 (Single Family Residential)
General Plan: Low Density Residential
Request: Planning Commission consideration of a Conditional Use Permit to allow expanding a nonconforming side setback (Chapter 19.27 and Chapter 19.34, ECMC).

CEQA: This project is categorically exempt from the provisions of CEQA pursuant to Section 15301 of the CEQA Guidelines, Class 1: Existing Facilities.

8. STAFF COMMUNICATIONS

Informational reports on matters of general interest, presented by City staff.

9. ADJOURNMENT

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact Sean Moss at (510) 215-4330. Notification 48 hours prior to the meeting will enable the City to make reasonable arrangements to ensure accessibility to this meeting. (28 CFR 35.102-35.104 ADA Title I).

Any writings or documents provided to a majority of the members regarding any item on this agenda will be made available for public inspection.



2024 Regular Meeting Schedule

City Holiday/Closed

Regular Meeting

Location:

Council Chambers (10890 San Pablo Ave)

Meeting Time:

7:30 p.m.

Planning Commission

JANUARY 2024						
Sun	Mon	Tue	Wed	Thur	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

FEBRUARY 2024						
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MARCH 2024						
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31						

APRIL 2024						
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MAY 2024						
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JUNE 2024						
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JULY 2024						
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AUGUST 2024						
Sun	Mon	Tue	Wed	Thur	Fri	Sat
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SEPTEMBER 2024						
Sun	Mon	Tue	Wed	Thur	Fri	Sat
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OCTOBER 2024						
Sun	Mon	Tue	Wed	Thur	Fri	Sat
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NOVEMBER 2024						
Sun	Mon	Tue	Wed	Thur	Fri	Sat
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DECEMBER 2024						
Sun	Mon	Tue	Wed	Thur	Fri	Sat
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22	23	24	25	26	27	28
29	30	31				



**COMMUNITY DEVELOPMENT
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Staff Liaison

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MINUTES

**REGULAR MEETING OF THE
PLANNING COMMISSION**

November 15, 2023 at 7:30 p.m.

City Council Chambers, El Cerrito City Hall
10890 San Pablo Avenue
El Cerrito, CA 94530

7:30 p.m. CONVENE REGULAR MEETING

1. **ROLL CALL** – Chair Joy Navarrete, Members Erin Gillett, Leslie Mendez, and Nathan Tincclair. Vice Chair Daniel Hamilton had an excused absence. Commissioners Brendan Bloom and Abhijeet Singh were also absent.
2. **COUNCIL/STAFF LIAISON ANNOUNCEMENTS AND REPORTS**
No report was given.
3. **ORAL COMMUNICATIONS FROM THE PUBLIC**
No comments were received.
4. **ADOPTION OF MINUTES**
Moved/Second: Commissioners Mendez/Tincclair. **Action:** Passed a motion to adopt the September 20, 2023 meeting minutes.
Ayes: Gillett, Mendez, Navarrete, Tincclair.
Noes: None.
Abstain: None.
Absent: Bloom, Hamilton, Singh.
5. **COMMISSIONER COMMUNICATION/CONFLICT OF INTEREST DISCLOSURE**
Nothing was reported.
6. **TIER IV DESIGN REVIEW AMENDMENT – 6115 POTRERO AVENUE**
Application: PL23-0043
Applicant: Potrero Avenue Partners, LLC
Location: 11335 San Pablo Avenue, 6111 & 6115 Potrero Avenue
APN: 513-327-015, 513-327-018, 513-327-046
Zoning: Transit Oriented Higher Intensity Mixed Use (TOHIMU)
General Plan: Transit Oriented Higher Intensity Mixed Use (TOHIMU)
Request: Planning Commission consideration of amendments to the conditions of approval with regard to noise attenuation, transportation demand management measures, and the timing of payment of open space in-lieu and public benefit contributions for a previously approved project containing 63 residential dwelling units and approximately 6,220 square feet of ground floor commercial space.

CEQA: This project is consistent with the Program Environmental Impact Report prepared for the San Pablo Avenue Specific Plan, pursuant to CEQA Guidelines Sections 15168(c). The project is also exempt from CEQA pursuant to CEQA Guidelines Section 15182 (Projects Pursuant to a Specific Plan), under subsection (b) (Projects Proximate to Transit).

Planning Manager Sean Moss presented the staff report and answered questions from the Commission.

Buddy Williams, representing the applicant, presented the project and answered questions from the Commission.

The public hearing was opened.

No speakers addressed the Commission.

The public hearing was closed.

Moved/Second: Commissioners Mendez/Navarrete. Action: Passed a motion to approve amendments to the conditions of approval with regard to noise attenuation, transportation demand management measures, and the timing of payment of open space in-lieu and public benefit contributions for a previously approved project at 11335 San Pablo Avenue, 6111 & 6115 Potrero Avenue with the modification that Conditions of Approval 24 & 31 be amended to read "...any Certificate of Occupancy...".

Ayes: Gillett, Mendez, Navarrete, Tincclair.

Noes: None.

Abstain: None.

Absent: Bloom, Hamilton, Singh.

7. STAFF COMMUNICATIONS

Planning Manager Sean Moss updated the Commission about the hiring of a Senior Planner.

8. ADJOURNMENT

8:00 p.m.



Community Development Department
Planning and Building Division
10890 San Pablo Avenue, El Cerrito, CA 94530
(510) 215-4330 | planning@ci.el-cerrito.ca.us

PLANNING COMMISSION STAFF REPORT

December 20, 2023

7211 VIEW AVE – CONDITIONAL USE PERMIT

DETAILS

Application Number: PL23-0153

Applicant: Ran Haimoff

Location: 7211 View Ave

APN: 505-021-010

Zoning: RS-5 (Single Family Residential)

General Plan: Low Density Residential

Request: Planning Commission consideration of a Conditional Use Permit to allow a proposed addition to a single-family house that expands a nonconforming side setback (Chapter 19.27 and Chapter 19.34, ECMC).

CEQA: This project is categorically exempt from the provisions of CEQA pursuant to Section 15301 of the CEQA Guidelines, Class 1: Existing Facilities.

EXECUTIVE SUMMARY

The proposed project includes a 400 sq. ft. addition to an existing 1,783 sq. ft. single-family house which would result in a 2,183 sq. ft. house with four bedrooms, two and a half bathrooms, a living room, a dining room, and a kitchen.

The existing house has a non-conforming side setback of 4 foot 1 inches on the east side of the property. The proposed addition would extend the building along the nonconforming side setbacks and would not project further into the required 5-foot setback than the existing structure. Pursuant to ECMC Section 19.27.050, additions that extend a nonconforming setback require a Conditional Use Permit.

Based on the evidence and analysis contained in this report, staff recommends approval of the Conditional Use Permit.

Background

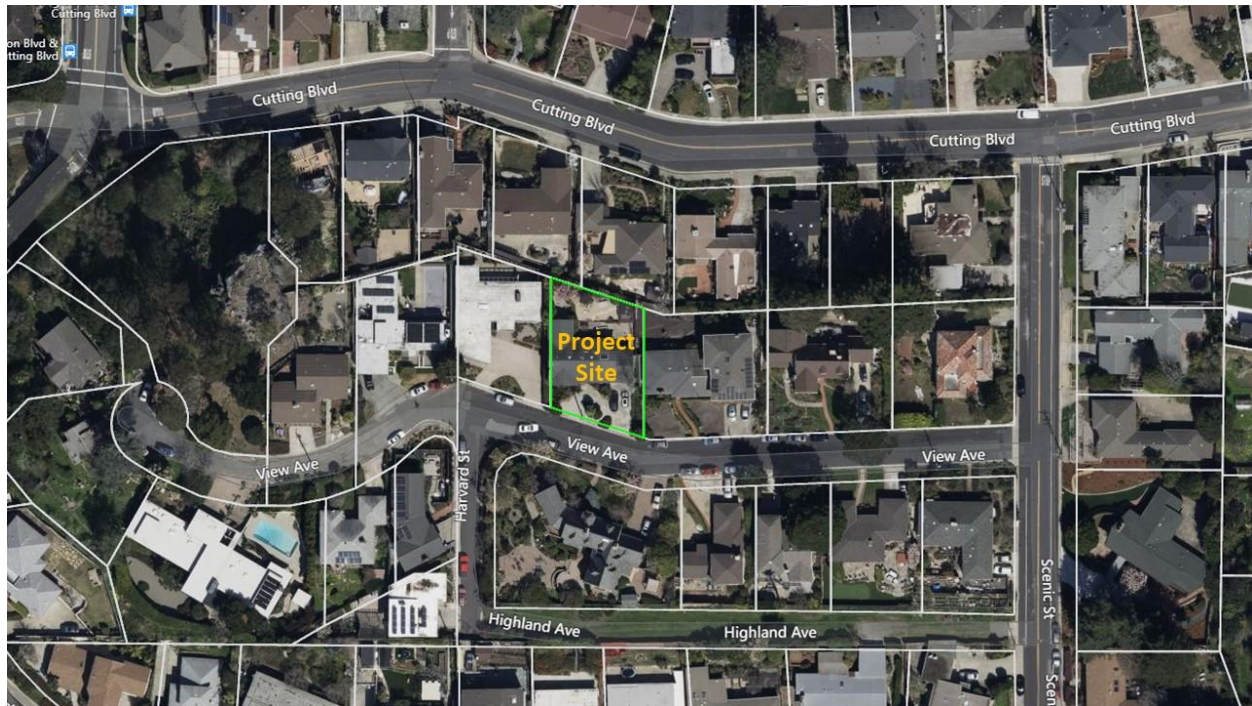
Site Location and Layout

The house at 7211 View Avenue is an approximately 1,783-square-foot single-story house. The house sits on a 7,800-square-foot lot in the RS-5 (Single Family Residential) zoning district. The existing lot coverage of the property is 31 percent.

The existing house has a kitchen, a living room, three bedrooms, and one bathroom. The existing house has a non-conforming side setbacks of 4 foot 1 inches on the east side.

The surrounding neighborhood contains mostly single-family houses. The surrounding houses are a mixture of one-story and two-story houses. On the block of the project site, houses range in size from 2,000 square feet to 4,000 square feet.

Vicinity Map



Site Photo



View of house from View Ave

Adjacent Designations and Land Uses

North: Single Family Residential (RS-5) Zoning and Low Density Residential General Plan designation.
Single family house.

South: Single Family Residential (RS-5) Zoning and Low Density Residential General Plan designation.
Single family house.

West: Single Family Residential (RS-5) Zoning and Low Density Residential General Plan designation.
Single family house.

East: Single Family Residential (RS-5) Zoning and Low Density Residential General Plan designation.
Single family house.

Analysis

Project Description

The applicant is proposing an addition which would add an additional bedroom, a full bathroom, and a half bathroom. The addition would extend the rear of the building by approximately 23 feet. The east side of the proposed addition would extend the east side building wall along the nonconforming setback. The proposed addition would not encroach further into the required side setback than the existing building. The resulting building would have four bedrooms, two and a half bathrooms, a living room, a dining room, and a kitchen.

Consistency with the Zoning District

Section 19.06.030 of the El Cerrito Municipal Code prescribes the development regulations for residential districts, including lot dimensions, building form and location, pedestrian orientation, vehicle accommodation and other standards. As noted in Table 1, the proposed addition is in compliance with the development standards except for the non-conforming side setback.

Table 1: Comparative Development Standards – RS-5 Zone and Proposed Project

Development Standard	Zoning Ord. Requirement	Existing	Proposed	Complies
Height (maximum)	25' maximum	14'-7"	No Change	Yes
Height (at setback lines)	15' maximum	14'-1"	9'	Yes
Setbacks				
Front	10' minimum	16'-10"	No Change	Yes
Side (east)	5' minimum	4'-1"	4'-1"	No. Use Permit required for extending this nonconforming setback
Side (west)	5' minimum	5'-4"	No Change	Yes.
Rear	15' minimum	39'-4"	18'-8"	Yes
Parking spaces (covered)	2 spaces minimum	2 spaces	No change	Yes
Lot Coverage	50% maximum	31.68%	33.37%	Yes

Nonconforming Setback

As described above, the existing house has a non-conforming side setback of 4 feet, 1 inch on the east side of the property. The proposed addition would extend the existing building by approximately 23 feet. The new addition would also be 4 feet, 1 inch from the east side property line and would not extend further into the required side setback than the existing building. Pursuant to ECMC Section 19.27.050, a Conditional Use Permit is required for additions and structural alterations that enlarge and extend a nonconforming structure when such enlargement does not comply with all applicable requirements.

Public Notice and Comment

The required public notice for the project was published in the East Bay Times and mailed to owners of property within 300 feet of the project site on or before December 6, 2023. No public comments were received prior to the publication of this report.

Environmental Review

This project is categorically exempt from the provisions of CEQA pursuant to Section 15301 of the CEQA Guidelines, Class 1: Existing Facilities.

Compliance with the General Plan

The Conditional Use Permit to allow an exception to the side setback and covered parking requirements is consistent with the following policies of the El Cerrito General Plan:

LU1.5: Suitable Housing. Promote suitably located housing and services for all age groups within the City.

The proposed project would add an additional bedroom and bathroom to an existing single-family home, providing suitable housing for a large family or multi-generational household.

CD1.1: Neighborhood Character. Preserve and enhance the character of existing residential neighborhoods by limiting encroachment of new buildings and activities that are out of scale and character with the surrounding uses.

The project would extend one existing nonconforming side setback, but the addition would not project further into the required 5-foot setback than the existing structure. The resulting building would only be 2,183 sq. ft. which still matches the character of the surrounding neighborhood. The project does not exceed the overall height limit for the RS-5 zoning district or the daylight plane requirements.

CD4.1: Compatibility in Building Scale. Avoid big differences in building scale and character between developments on adjoining lots.

The building at 7211 View Ave would comply with the height limit and lot coverage regulations of the RS-5 zone that control building scale and character. The addition's overall height and roof line would be consistent with many of the other single-family buildings on the 7000 block of View Ave. The addition's materials, colors, and design would match those of the existing house.

Required Findings

In order to approve the Conditional Use Permits to allow expanding an existing nonconforming setback, the Planning Commission must make the following findings, contained in Section 19.34.040 of the El Cerrito Municipal Code:

1. The location, size, design, and operating characteristics of the proposed development will be harmonious and compatible with and will not adversely affect the livability or appropriate development of abutting properties and the surrounding neighborhood.

The surrounding neighborhood predominantly contains single-family houses. The surrounding houses are predominantly single-family houses with a mixture of two-story and one-story houses. The proposed addition would increase the floor area of the house by 400 square feet and would result in a 2,183 square foot house on a 7,800 square foot lot. The location, size, and design of the

proposed house addition are consistent with the scale and design of development in the surrounding neighborhood.

2. The location and design of the proposal will provide a convenient and functional living, working, shopping, or civic environment that will be an attractive amenity for the City.

The proposed project would add an additional bedroom, a full bathroom, and a half bathroom to an existing single-family home and would result in four bedrooms, a kitchen, two and half bathrooms, a dining room, and a living room. The resulting house will be an attractive addition to the neighborhood.

3. The proposal is consistent with the purpose of the district where it is located and conforms in all significant respects with the El Cerrito General Plan and with any other applicable plan adopted by the City Council.

The Conditional Use Permit will allow the expansion of a single-family home, which is a permitted land use in the RS-5 district and consistent with the district's intent. The proposed project will implement the following policies of the El Cerrito General Plan: LU1.5: Suitable Housing, CD1.1: Neighborhood Character, and CD4.1: Compatibility in Building Scale.

Staff Recommendation

Based on the information contained in this report, staff recommends approval of Planning Application PL23-0153, as conditioned by the draft resolution in Attachment 1.

Proposed Motion

1. Move adoption of Planning Commission Resolution PC2023-05 approving the Conditional Use Permits to allow an addition expanding a nonconforming side setback to an existing single-family house at 7211 View Ave.

Appeal Period

Within ten (10) calendar days after the date of the decision, the Planning Commission action may be appealed to the City Council.

Attachments

1. Draft resolution
2. Project plans

Planning Commission Resolution PC 2023-05

APPLICATION NO. PL23-0153

A RESOLUTION OF THE CITY OF EL CERRITO PLANNING COMMISSION APPROVING A CONDITIONAL USE PERMIT TO ALLOW AN ADDITION THAT EXTENDS A NONCONFORMING SIDE SETBACK FOR AN EXISTING SINGLE-FAMILY HOUSE AT 7211 VIEW AVE

WHEREAS, the site is located at 7211 View Ave; and

WHEREAS, the existing Assessor's Parcel Number of the site is 505-021-010; and

WHEREAS, the General Plan land use classification of the site is Low Density Residential; and

WHEREAS, the zoning district of the site is RS-5 (Single Family Residential); and

WHEREAS, the project is categorically exempt from the provisions of the California Environmental Quality Act (CEQA) pursuant to Section 15301 of the CEQA Guidelines, Class 1: Existing Facilities; and

WHEREAS, on October 12, 2023, Ran Haimoff (the "applicant") submitted an application for a Conditional Use Permit for an addition extending a nonconforming side setback of an existing single-family house at 7211 View Ave; and

WHEREAS, on December 20, 2023, the Planning Commission, after due consideration of all evidence and reports and application materials offered for review does find and determine the following:

1. The surrounding neighborhood predominantly contains single-family houses. The surrounding houses are predominantly single-family houses with a mixture of two-story and one-story houses. The proposed addition would increase the floor area of the house by 400 square feet and would result in a 2,183 square foot house on a 7,800 square foot lot. The location, size, and design of the proposed house addition are consistent with the scale and design of development in the surrounding neighborhood.
2. The proposed project would add an additional bedroom, a full bathroom, and a half bathroom to an existing single-family home and would result in four bedrooms, a kitchen, two and half bathrooms, a dining room, and a living room. The resulting house will be an attractive addition to the neighborhood.
3. The Conditional Use Permit will allow the expansion of a single-family home, which is a permitted land use in the RS-5 district and consistent with the district's intent. The proposed project will implement the following policies of the El Cerrito General Plan: LU1.5: Suitable Housing, CD1.1: Neighborhood Character, and CD4.1: Compatibility in Building Scale.

NOW, THEREFORE, BE IT RESOLVED, that after careful consideration of maps, facts, exhibits, correspondence, and testimony, and other evidence submitted in this matter, and, in consideration of the findings, the El Cerrito Planning Commission hereby approves Application No. PL23-0055, subject to the following conditions:

Planning Division:

1. The project will be constructed substantially in conformance with the plans received by the City on October 12, 2023. Minor changes may be approved by the Zoning Administrator. All improvements

shall be installed in accordance with these approvals. Once constructed or installed, all improvements shall be maintained as approved.

2. If the applicant constructs buildings or makes improvements in accordance with these approvals, but fails to comply with any of the Conditions of Approval or limitations set forth in these Conditions of Approval and does not cure any such failure within a reasonable time after notice from the City of El Cerrito, then such failure shall be cause for non-issuance of a certificate of occupancy, revocation or modification of these approvals or any other remedies available to the City.
3. These Conditions of Approval shall apply to any successor in interest in the property and Applicant shall be responsible for assuring that the successor in interest is informed of the terms and conditions of this approval.
4. If not exercised, this Conditional Use Permit approval will expire two years after the date of this approval pursuant to El Cerrito Municipal Code Section 19.32.100.

CERTIFICATION

I certify that this resolution was adopted by the El Cerrito Planning Commission at a regular meeting held on December 20, 2023, upon motion of Commissioner _____, second by Commissioner _____:

AYES:

NOES:

ABSTAIN:

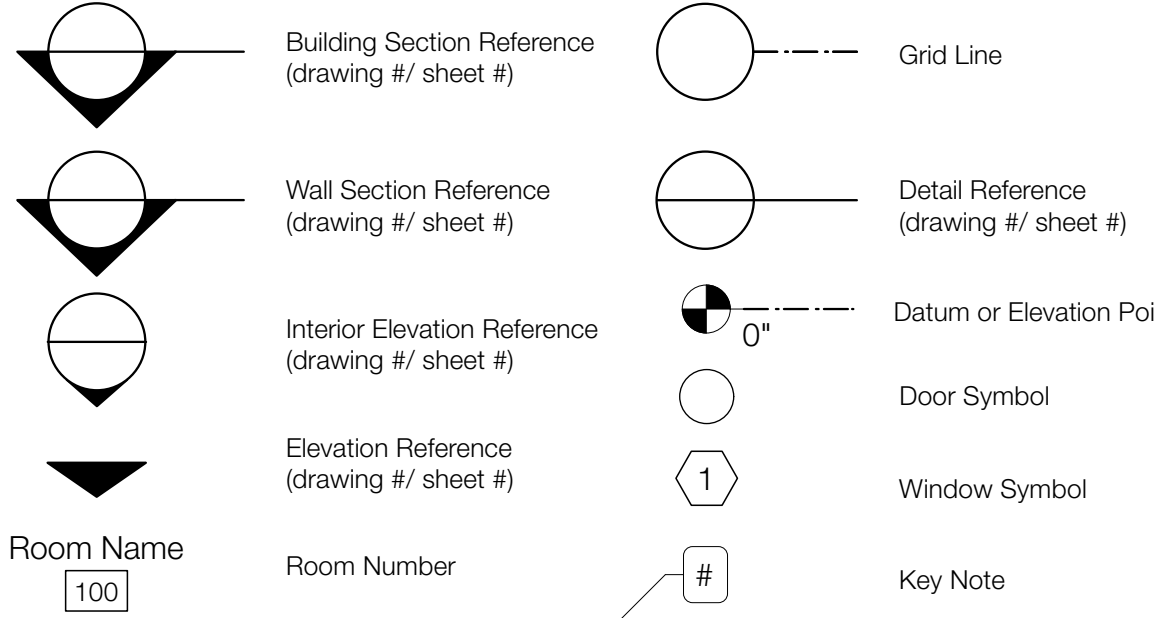
ABSENT:

Sean Moss, AICP
Planning Manager

General Notes

1. All work and materials to conform to the requirements of local and state codes and the specifications of the National Board of Fire Underwriters. All work shall be done in accordance with the requirements of the city and/or appropriate authority having jurisdiction over construction where the project is located.
2. Contractor shall check and verify all plan dimensions and conditions before proceeding with construction and shall report any discrepancies to the Architect for correction before beginning any work.
3. Do not scale drawings. All written dimensions govern.
4. The Architect is not responsible for any deviations from the plans and specification information.
5. The Architect shall not have control or charge of and shall not be responsible for construction means, methods, techniques, sequences, or procedures, for safety precautions and programs in connection with the work, or the acts or omissions of the Contractor, subcontractors, or any other persons performing any work, or for failure of any of them to carry out the work in accordance with the construction documents.
6. The following set of drawings is an instrument of professional service and shall remain the property of Drafting Cafe, whether the project is executed or not. No changes, alterations, or deletions may be made hereto except by the Architect.

Symbol Legend



Abbreviations

AD	Area Drain	MECH	Mechanical
ADJ	Adjustable	MIN	Minimum
AFF	Above Finish Floor	MTL	Metal
AGGR	Aggregate		
ARCH	Architectural	(N)	New
ASPH	Asphalt	NIC	Not In Contract
		NTS	Not To Scale
BLDG	Building		
BLK	Block	OBS	Obscure
BLKG	Blocking	OC	On Center
BO	Bottom Of	OD	Outside Diameter
BW	Bottom of Wall	OPN'G	Opening
CPT	Carpet	PLAM	Plastic Laminated
CAB	Cabinet	PL	Property Line
CJ	Construction Joint	PLT	Steel Plate
CL	Center Line	PLYWD	Plywood
CIQS	Closet	PT	Point
CLG	Ceiling		
CLR	Clear	QTY	Quantity
CO	Clean Out	R	Riser
COL	Column	RAD	Radius
CONC	Concrete	RET	Retaining
CONT	Continuous	R/A	Return Air
CSMT	Casement	RD	Round
CT	Ceramic Tile	RD	Roof Drain
CS	Counter Sink	REF	Refrigerator
		REG	Register
DEMO	Demolition	REINF	Rinforced
DET	Detail	REQ'D	Required
DH	Double Hung	RO	Rough Opening
DF	Douglas Fir	RWD	Redwood
DIAG	Diagonal	RWL	Rain Water Leader
DIM	Dimension		
DWGS	Drawings	SAG	Supply Air Grill
DN	Down	SV	Sheet Vinyl
DS	Downspout	SH	Single Hung
		SHT	Sheet
(E)	Existing	SIM	Similar
EJ	Expansion Joint	SM	Sheet Metal
EL	Elevation	SQ	Square
EQ	Equal	SSD	See Structural Drawings
EXT	Exterior	SS	Stainless Steel
		STD	Standard
FD	Floor Drain	STL	Steel
FF	Finish Floor	STRUC	Structural
FIN	Finish		
FOC	Face Of Concrete	T	Tread
FOS	Face Of Stud	TC	Top Of Curb
FOW	Face Of Wall	TEMP	Tempered Glass
FTG	Footing	TJJ	Truss Joist
		TO	Top Of
GA	Gauge	TOC	Top Of Concrete
GALV	Galvanized	TYP	Typical
GWB	Gypsum Wall Board	TW	Top Of Wall
GL	Glass	TS	Tube Steel
GLU LAM	Glue Laminated		
GSM	Galv. Sheet Metal	UON	Unless Otherwise Noted
HB	Hose Bibb	VERT	Vertical
HGT	Height	VIF	Verify In Field
HM	Hollow Metal	VTO	Vent To Outside
HOR	Horizontal		
HP	High Point	W/	With
		W/C	Water Closet
ID	Inside Diameter	WD	Wood
INSUL	Insulation	W/H	Water Heater
INT	Interior	WP	Waterproof
		WPT	Work Point
JBOX	Junction Box		
JT	Joint	YD	Yard
LAM	Laminated		
LAV	Lavatory		
LP	Low Point		

Code Notes

Residential Building Code (CRC)

1. **Flame spread index and smoke-developed index for insulation.**
Insulation materials shall have a flame spread index not to exceed 25 and smoke-developed index not to exceed 450 where tested in accordance with ASTM E84 or UF 723.

2. **Interior finish materials.**
Wall and ceiling finishes shall have a flame spread index of not greater than 200 and a smoke-developed inde of not greater than 450.

3. **Interior finish materials.**
Interior finish materials shall be installed in a way that prevents them from becoming detached when subjecter to room temperatures of 200°F for at least 30 minutes.

4. **Outside opening protection.**
Air exhaust and intake openings shall be protected with corrosion-resistant screens, louvers or grilles having an opening size of not less than 1/4 inch and a maximum opening size of 1/2 inch, in any dimension.

5. **Bathtub and shower spaces.**
Showers and tub/shower combinations shall be finished with a nonabsorbent surface to at least 6 feet above the floor.

6. **Glazing and Wet Surfaces.**
Tempered glazing shall be provided in walls or enclosures containing bathtubs or showers, or facing tubs where the bottom exposed edge of the glazing is less than 60 inches measured vertically above any standing or walking surface. Exception: Glazing that is more than 60 inches measured horizontally and in a straight line from the water's edge of a bathtub, hot tub, spa or whirlpool.

7. **Alarm listings.**
Smoke alarms shall be listed in accordance with UL 217. Carbon monoxide alarms shall be listed in accordance with UL 2034. Combination smoke and carbon monoxide alarms shall be listed in accordance with both UL 217 and UL 2034.

8. **Alarm interconnection and power.**
Smoke and carbon monoxide alarms are required to be interconnected such that activation of one alarm will activate all of the alarms and shall receive their primary power from the building wiring. Interconnection is not required where repairs or alterations to existing buildings do not result in the removal of wall and ceiling finishes and there is no access by means of attic, basement or crawl space.

Electrical Code(CEC)

1. **Dedicated laundry circuit.**
At least one 20-amp circuit shall be provided for laundry appliances. Laundry lighting shall not be on an outlet circuit.

2. **Bathroom receptacles.**
Receptacles in bathrooms must be supplied by at least one 20-amp circuit that shall have no other outlet. Bathroom lighting shall not be on an outlet circuit.

3. **AFCI protection.**
All branch circuits supplying outlets installed in bedrooms are required to be protected by a listed arc-fault circuit interrupter.

4. **New Receptacles.**
All added/replaced receptacles shall be listed tamper-resistant and shall have a listed combination-type arc-fault circuit interrupter (AFCI) either at the sub-panel or the first receptacle outlet of the existing branch circuit.

5. **Receptacle Outlets.**
Receptacles must be installed every 6 feet along wall sections unbroken by doorways, openings, fireplaces and fixed cabinets.

6. **Bathroom receptacle.**
At least one receptacle shall be provided within 3 feet of the outside edge of each sink and not more than 12 inches below the countertop. Receptacles installed within 6 feet of the outside edge of a sink, bathtub or shower shall be GFCI protected.

7. **Light fixtures in damp locations.**
Light fixtures located within tub or shower enclosures are to be labeled suitable for damp locations.

Plumbing Code(CPC)

1. **Mixing valves.**
Provide showers and tub-shower combinations with individual control valves that are pressure balancing, thermostatic or combination mixing vale type that prevent scald and thermal shock protection. Installer shall adjust such valves per manufacturer's instructions to deliver a maximum mixed water setting of 120°F.

2. **Shower dam or threshold.**
Shower dams and thresholds shall be between 2 inches and 9 inches in depth where measured from the top c the dam or threshold to the top of the drain. The shower floor shall slope no more than 1/4 inch per foot, and not less than 1/8 inch per foot. Control valves and shower heads shall be located on the sidewall of shower compartments or be otherwise arranged so that the showerhead does not discharge directly at the entrance to the compartment. Shower doors shall open outward with a minimum 22 inches unobstructed opening for egress. Shower pan dimensions must be a minimum area of 1024 square inches and a minimum finish dimension of 30 inches in any direction.

3. **Water Hammer.**
Devices such as dishwashers and washing machines that have quick-acting valves require a water hammer arrester installed as close as possible to the device.

Mechanical Code (CMC)

1. **Environmental air vents.**
Termination of all environmental air ducts (e.g., bath fan, dryer vent, range hood, etc.) shall be at least 3 feet from a property line and from openings into the building, and 10 feet from a forced air inlet.

2. **Laundry Makeup Air.**
A minimum opening of 100 square inches for makeup air shall be provided in the laundry closet door or by other approved means. Moisture exhaust duct shall terminate to the outside and shall be equipped with a back draft damper. Exhaust duct length is limited to a combined horizontal and vertical length of 14 feet with 2 elbows. Two feet shall be deducted for each 90 degree elbow in excess of two.

Energy Code(CEnC)

1. **Insulation.**
Exterior wall, floor and roof framing spaces opened up during the course of remodel shall be insulated. R-13 (2x4 wall), R-19 (2x6 wall), R-19 (floor), and R-22 (attic/roof) insulation.

2. **Bathroom exhaust fans.**
Exhaust fans shall be switched separately from lighting system and controlled by a humidistat which shall be readily accessible. Fans shall be Energy Star compliant and ducted to terminate outside the building.

3. **Outdoor lighting.**
Outdoor lighting attached to the building must be high efficacy and controlled by both a manual switch and motion sensor or photocontrol devices (lighting not attached to building is exempt).

4. **Lighting.**
All added or replacement lighting shall be high efficacy in accordance with CA Energy Code, Table 150.0-A.

5. **Vacancy sensor.**
In bathrooms and laundry rooms, at least one luminaire in each of these spaces shall be controlled by a vacancy sensor.

CalGreen(CGBSC)

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 US EPA WaterSense Specification for Tank-type Toilets.

2. **Single showerhead.**
Showers with a single showerhead 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 US EPA WaterSense Specification for Showerheads.

3. **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. **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 minute at 60 psi.

5. **Bathroom Ventilation.**
Fans in bathrooms containing a tub or shower to be controlled by a humidistat and be energy star rated. Humidity controls shall be capable of adjustment between a relative humidity of 50% and 80%. If the bathroom fan provides continuous ventilation as required by the Energy Code it is exempt.

6. **Grading and paving.**
If the project disrupts the existing drainage path, the plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings.

Civil Code

1. **Noncompliant plumbing fixtures**
All noncompliant plumbing fixtures must be replaced to meet current water-conserving standards if property was built before Jan. 1, 1994. (California Civil Code sections 1101.1 through 1101.8).

Drawing List

Architectural

- A0.1 Cover Sheet
- A0.2 Site Maps
- A1.1 Existing Floor Plans
- A1.2 Proposed Floor Plans
- A1.3 Proposed Electrical and Lighting Plan
- A1.4 Existing Floor Area Diagrams
- A1.5 Proposed Floor Area Diagrams
- A2.1 Existing Elevations
- A2.2 Existing Elevations
- A2.3 Proposed Elevations
- A2.4 Proposed Elevations

Title24

- T24.1 T24 Compliance
- T24.2 T24 Compliance & Mandatory Measures
- T24.3 T24 Mandatory Measures

Structural

- S-1.1 Structural Title Sheet
- S-1.2 Structural Specifications & Special Inspections
- S-2.1 Foundation & 1st Floor Framing Plan
- S-2.2 Roof Framing Plan
- S-3.1 Structural Details
- S-3.2 Structural Details

Codes and Regulations

- 2022 California Building Code
- 2022 California Residential Code
- 2022 California Mechanical Code
- 2022 California Electrical Code
- 2022 California Plumbing Code
- 2022 California Green Building Code
- 2022 California Energy Code
- 2022 California Fire Code
- Local codes, amendments and ordinances

Project Description

Addition to rear of garage for primary suite, by reconfiguring adjacent laundry room and bathroom into a powder room, and washer/dryer relocated to garage. Office to be reduced in size and closed off with french doors and glass sidelites. Bedroom to have ensuite bathroom with double vanity and shower, wc, and walk-in closet. Existing pergola to be demolished and new retaining walls added to accomodate addition.

Property Information

APN: 505-021-010

Address: 7211 View Ave.
El Cerrito, CA 94530

Project Team

Owner
Ran Haimoff
7211 View Ave,
El Cerrito, CA 94530
Tel:

Structural Engineer:
Asley and Vance Engineering, Inc.
1610 Harrison St., Suite A
Oakland, CA 94612
Tel: 510-473-2221

Architect:
Drafting Cafe Architects
Ethan Andersen, AIA
484 Lake Park Ave #355
Oakland CA 94610
Tel: 510-251-2511

T24:
TECC
Robert Mao, PE, CEA
6367 Swainland Road
Oakland, CA 94611
Tel: 510-387-2756

Development Information

Zoning District	RS-5		
Fire Severity Zone	Very High		
Flood Zone	X		
Areas	Existing	Proposed	Allowable
Total Lot Area sf	7,800 sf	7,800 sf	
Floor Area (Main Res.)	1,783 sf	2,183 sf	- sf
Total Lot Coverage Area	2,471 sf	2,603 sf	3,900 sf
Lot Coverage (%)	31.68%	33.37%	50%
Floor Area Ratio	-	-	N/A
Development			
# of Dwelling Units	1	1	-
# of Parking Spaces	2	2	-

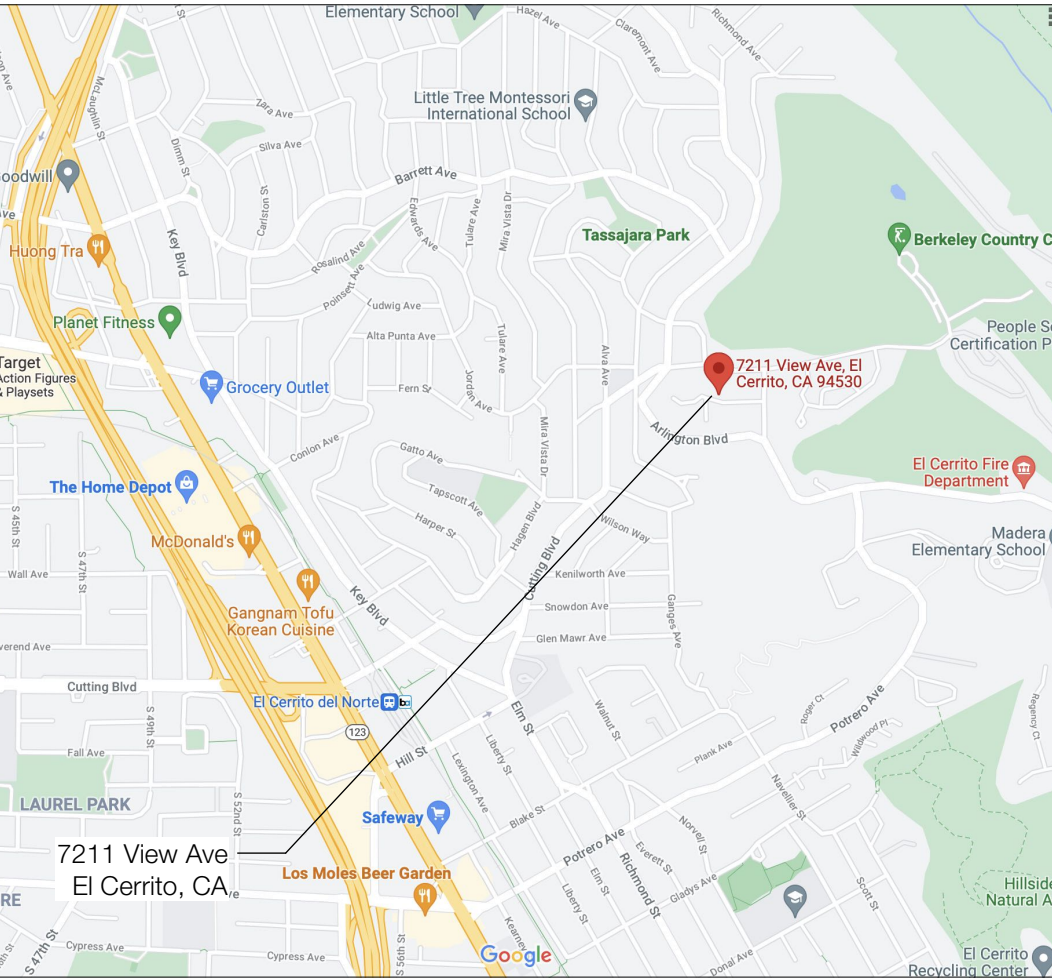
Dwelling is **NOT** equipped with an automatic fire sprinkler system.

California Building Code Notes

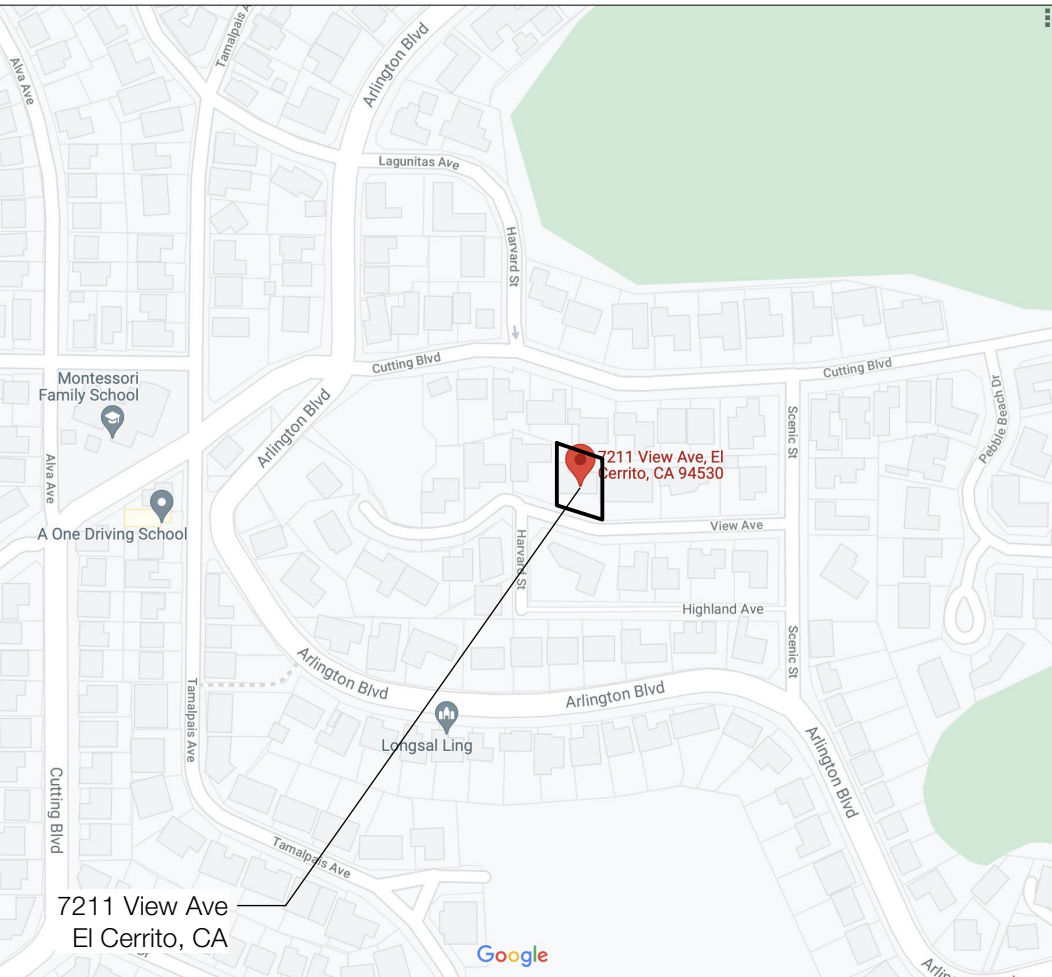
Occupancy Code: Type R-3/U

Construction Type: Type V B

Vicinity Map



Location Map



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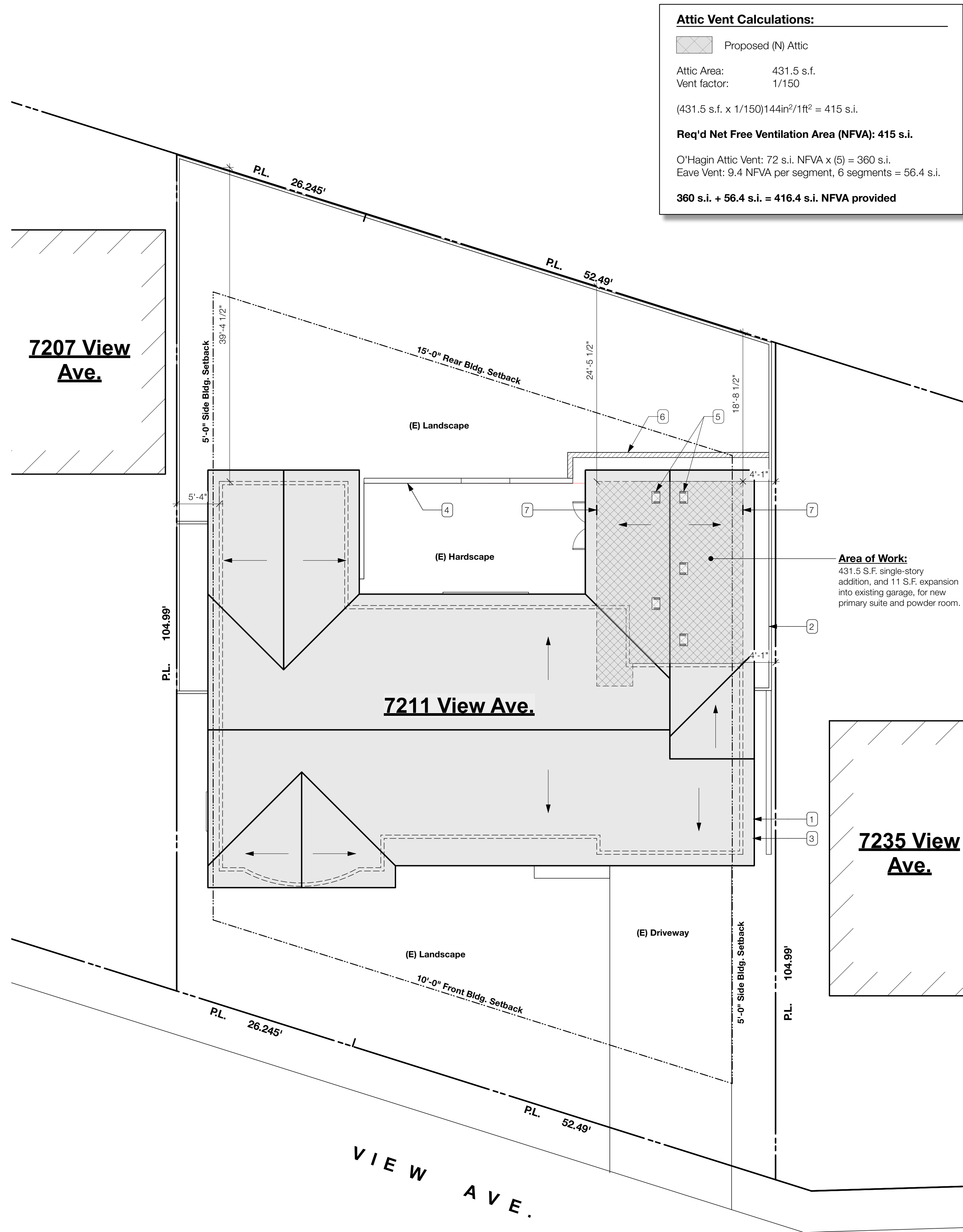
Cover Sheet

DATE Sep 20, 2023

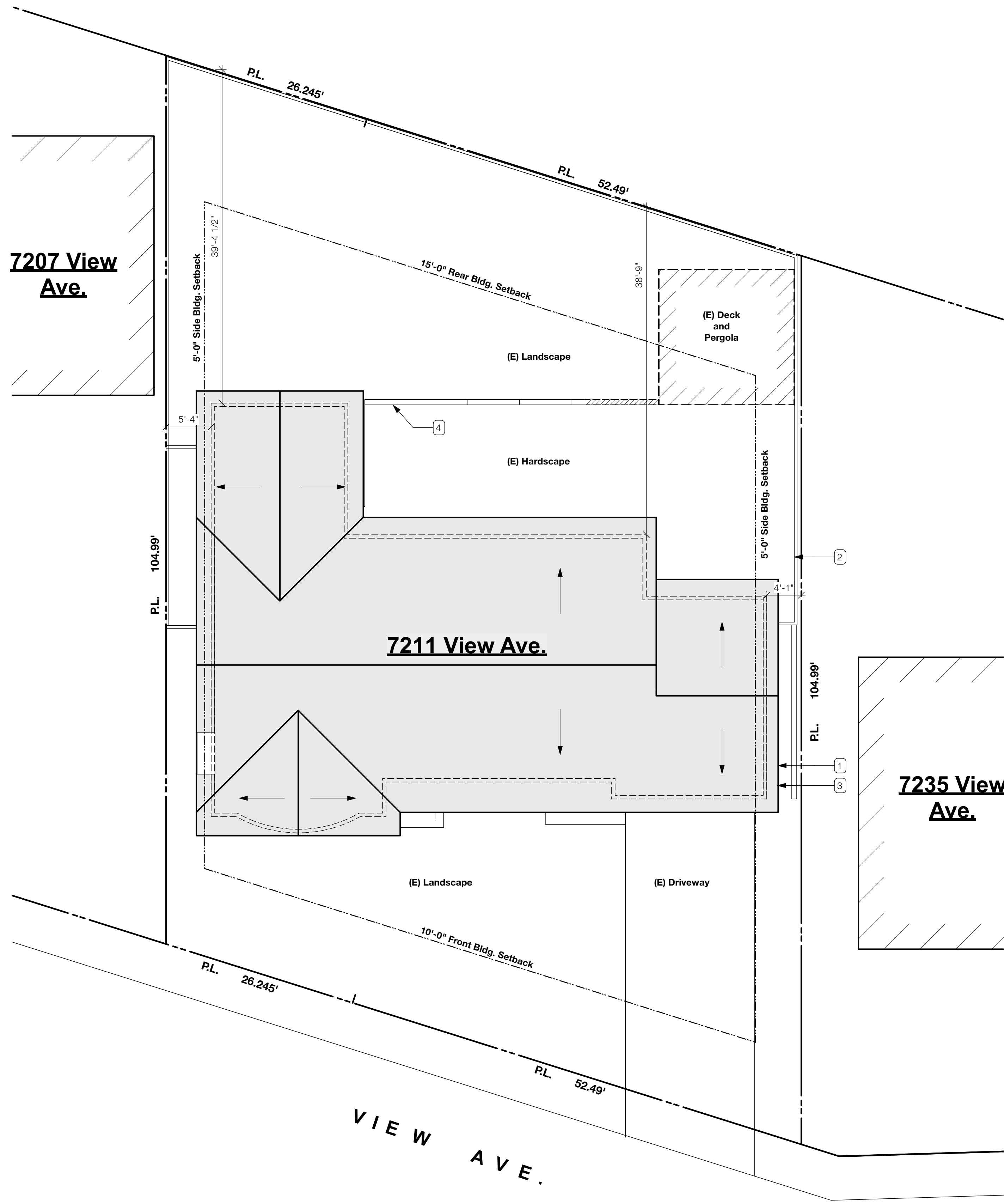
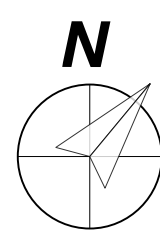
PROJECT 21113

SCALE NTS

A0.1



2 Site Map - Proposed
Scale: 1/8" = 1'-0"



1 Site Map - Existing
Scale: 1/8" = 1'-0"



- Keynotes**
- (E) 200A Electrical Meter
 - (E) Wood Fence
 - (E) Gas Meter
 - (E) Conc. Retaining Walls
 - (N) O'Hagin Attic Vent, Typ. of (5)
 - (N) Retaining Walls
 - (N) Eave Vent. Provide min. of (6)

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Site Maps			
DATE	Sep 20, 2023		
PROJECT	21113		
SCALE	1/8" = 1'-0"		

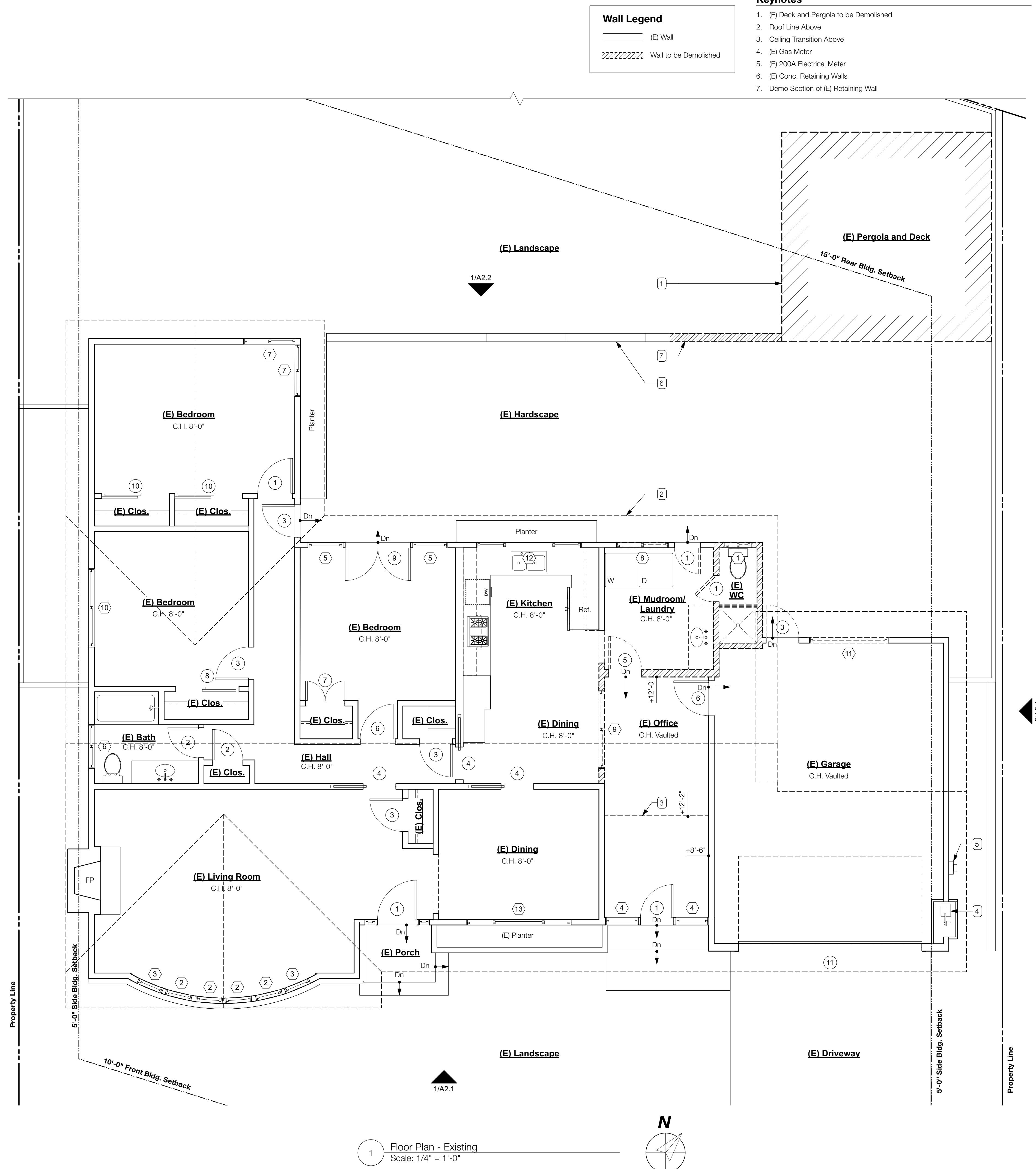
A0.2

EXISTING DOOR SCHEDULE

ID Label	Qty.	Width	Height	Type	Material	Finish	Notes
Existing							
1	2	2'0"	6'8"	Swing Simple			To Be Removed
2	2	2'4"	6'8"	Swing Simple			
3	5	2'6"	6'8"	Swing Simple			To Be Removed
4	3	2'8"	6'8"	Pocket Simple			
5	1	2'8"	6'10"	Swing Simple			To Be Removed
6	2	2'8"	6'8"	Swing Simple			
7	1	3'0"	6'8"	Swing Bi-part			
8	1	4'10"	6'8"	Slider			
9	1	5'0"	6'8"	Swing Bi-part			
10	2	5'2"	6'8"	Slider			
11	1	14'0"	6'8"	Overhead			

EXISTING WINDOW SCHEDULE

Id Label	Qty.	Operation	Width	Height	Manufacturer	Notes
Existing						
1	1	Horizontal Slider	20"	20"		To Be Removed
2	4	Fixed Glass	20"	64"		
3	2	Casement	20"	64"		
4	2	Fixed Glass	26"	310"		
5	2	Fixed Glass	28"	68"		
6	1	Horizontal Slider	34"	22"		
7	2	Horizontal Slider	40"	30"		
8	1	Horizontal Slider	40"	32"		To Be Removed
9	1	Horizontal Slider	60"	22"		To Be Removed
10	1	Horizontal Slider	60"	32"		
11	1	Fixed Glass	60"	34"		To Be Removed
12	1	Picture Window Slider	80"	32"		
13	1	Picture Window Slider	80"	44"		



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NO.	DESCRIPTION	DATE

Existing Floor Plans

DATE Sep 20, 2023

PROJECT	21113
---------	-------

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

A1.1

PROPOSED DOOR SCHEDULE							
ID Label	Qty.	Width	Height	Type	Material	Finish	Notes
Proposed							
1	1	2'6"	6'8"	Swing Simple			
2	2	2'6"	6'8"	Pocket Simple			
3	1	2'8"	6'8"	Swing Simple			
4	1	6'0"	6'8"	Swing Bi-part			
5	2	5'0"	6'8"	Swing Bi-part			Temp. Glass w/ 1'2" sidelites
7	1	2'4"	6'8"	Swing Simple			

PROPOSED WINDOW SCHEDULE								
Id Label	Qty.	Operation	Width	Height	Manufacturer	Egress	Glazing	Notes
Proposed								
1	2	Awning	2'0"	2'6"		No		
2	1	Horizontal Slider	2'8"	3'0"		No		
3	1	Horizontal Slider	6'0"	4'0"		No		

- Keynotes**
- Ceiling Transition Above
 - (E) Gas Meter
 - (E) 200A Electrical Meter
 - (E) Conc. Retaining Walls
 - (E) Washer & Dryer Shown Relocated to Garage
 - Section of (N) Retaining Wall Shown Hatched
 - (N) Crawlspace Area (hatched) = 431.5 SF
 - (N) Crawlspace Access Hatch. 18"x24" min.
 - (N) Attic Access Hatch. 22"x30" min.
 - Raised Floor, SSD

Wall Legend	
	(E) Wall
	(N) Wall
	(N) 1-hr rated fire wall

Crawlspace Vent Calculations:

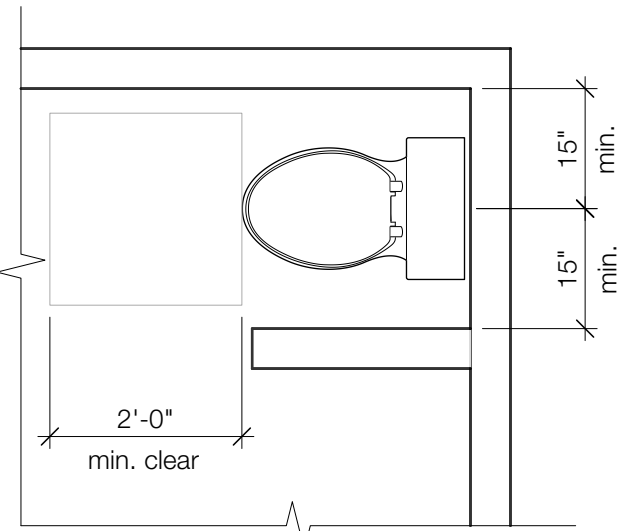
Crawlspace Area: 431.5 s.f.
Vent factor: 1/1500 (Class 1 Vapor Retarder
Material provided over ground surface)

(431.5 s.f. x 1/1500)144in²/1ft² = 41.4 s.i.

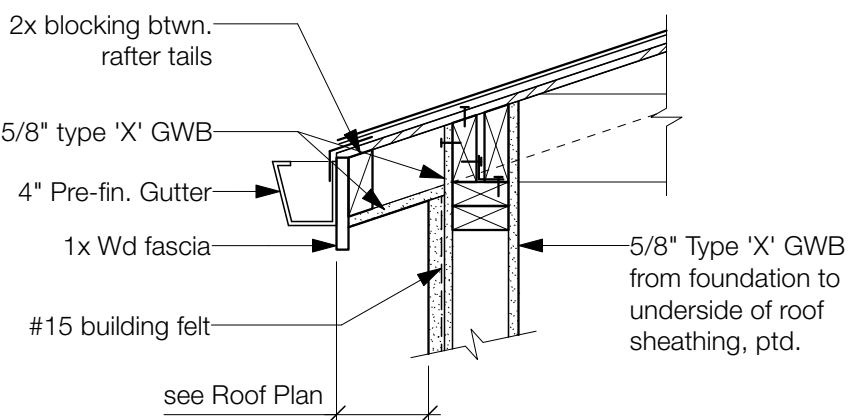
Required Net Free Ventilation Area (NFVA): 41.4 s.i.

16"x8" wall vents = 40 s.i. NFVA

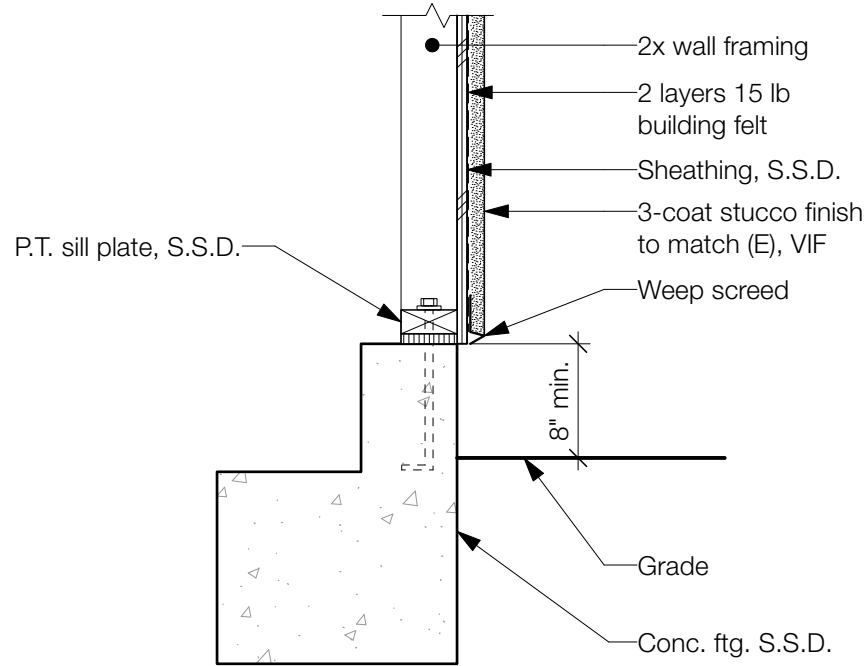
(2) vents required; G.C. to provide min. (2) vents (80 s.i.), distributed to provide adequate cross ventilation throughout crawlspace (new & existing).



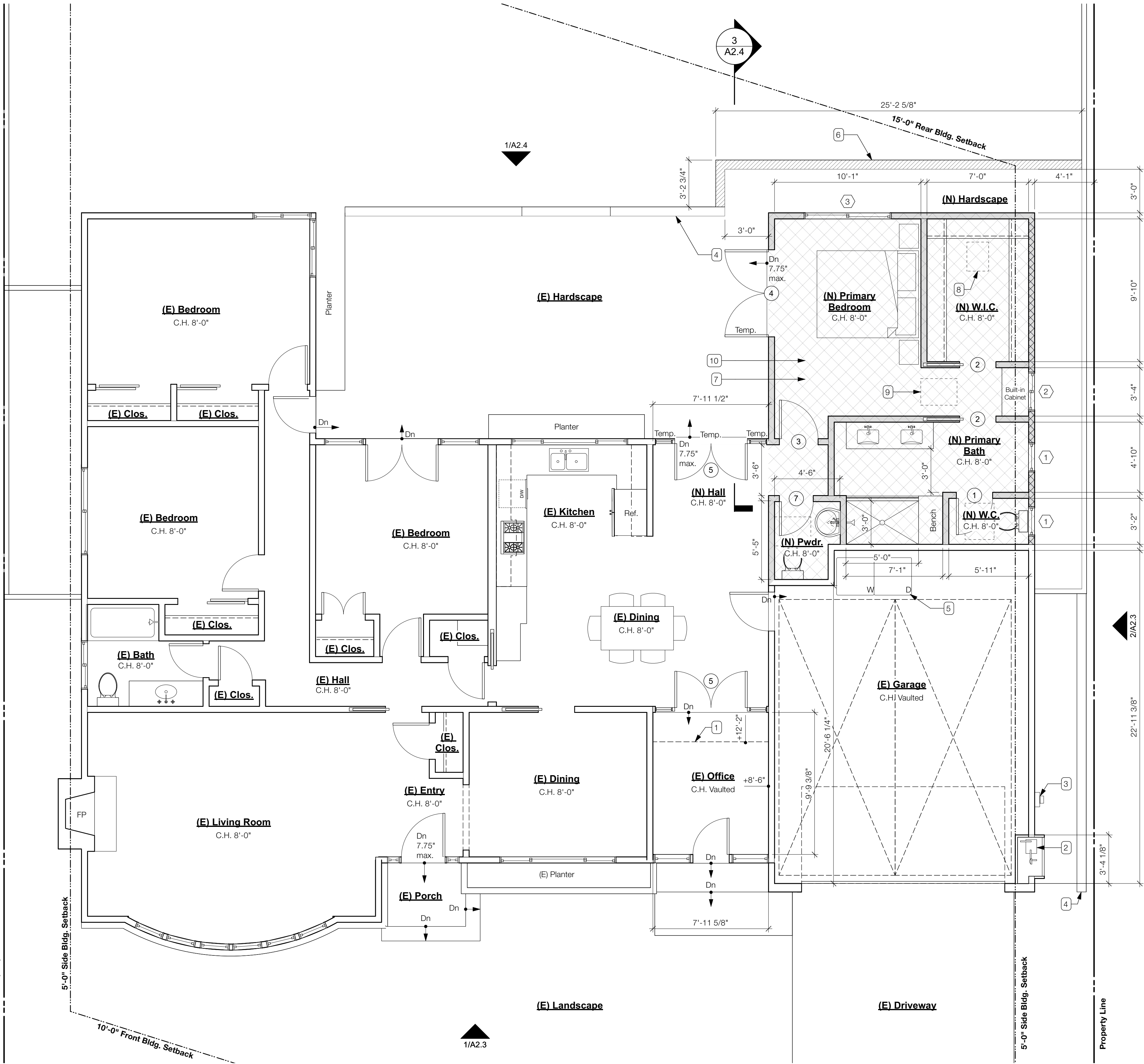
4 Toilet Clearance
Scale: 1/2" = 1'-0"



3 1-Hr. Fire Rated Eave
Scale: 1" = 1'-0"

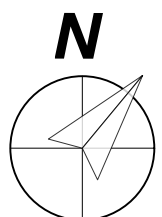


2 Typical Stucco Wall
Scale: 1" = 1'-0"



1 Floor Plan - Proposed
Scale: 1/4" = 1'-0"

Addition = 397 S.F.



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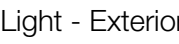
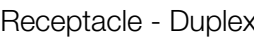
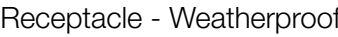
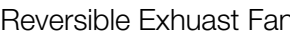
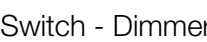
Proposed Floor Plans

DATE Sep 20, 2023

PROJECT 21113

SCALE as noted

A1.2

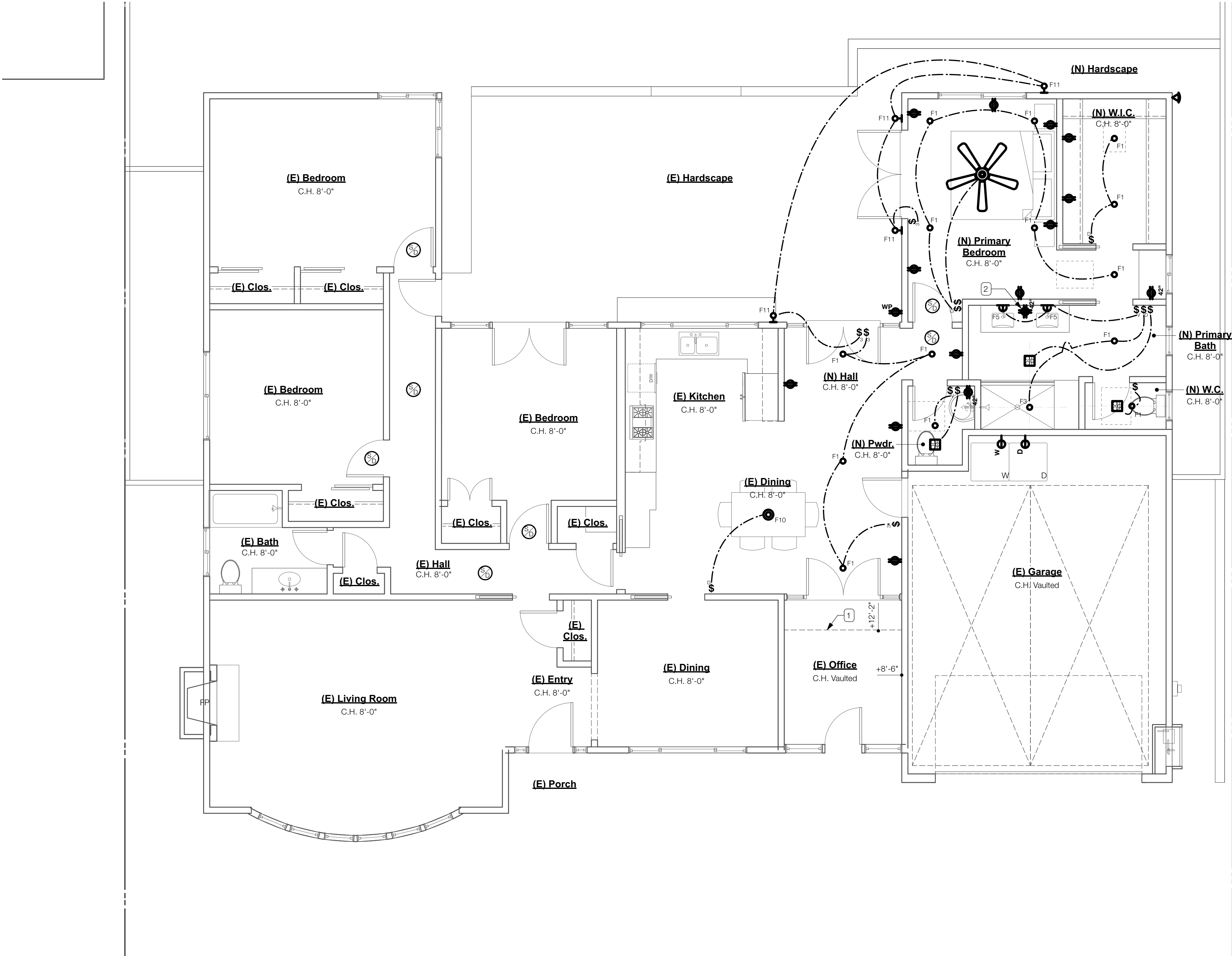
Electrical Symbols Legend	
	Ceiling Fan & Light Combo
	Light - Ceiling Mounted
	Light - Exterior
	Light - Motion Sensor & Photo-controlled Outdoor Light
	Light - Pendant
	Light - Recessed Downlight
	Light - Shower Trim Recessed Downlight
	Light - Wall Mounted Sconce
	Receptacle - Dedicated 20-amp GFCI
	Receptacle - Duplex
	Receptacle - Special Purpose Outlet - 220V Dryer
	Receptacle - Special Purpose Outlet - Washer
	Receptacle - Weatherproof
	Receptacle - Dedicated 20-amp GFCI at 44" A.F.F.
	Reversible Exhaust Fan
	Smoke and Carbon Monoxide Alarms
	Switch
	Switch - Dimmer
	Switch - Three Way w/ Dimmer
	Switch - Three-Way
	Switch - Vacancy Sensor

Lighting Schedule

Contractor to install fixtures and lamping matching these specifications, and complete CF-6R-LTG-01 Installation Certificate. All lighting to be UL listed; all high-efficacy fixtures to be Energy Star certified.					
TYPE	DESCRIPTION	LAMPING	WATTAGE	EFFICACY	NOTES
F1	4 inch, non-adjustable recessed LED lamping in IC-rated housing.	LED 2700k	9.5W	High-Efficacy	CREE EcoSmart 'ECO4' in Halo 'H995ICAT' or similar.
F2	4 inch, adjustable recessed LED lamping in IC-rated housing.	LED 2700k	9.5W	High-Efficacy	
F3	4 inch, non-adjustable recessed LED lamping in IC-rated housing, UL listed for use in wet locations.	LED 2700k	9.5W	High-Efficacy	CREE EcoSmart 'ECO4' in Halo 'H995ICAT' or similar.
F4	Dimmable, hardwired, linkable undercabinet LED; lengths from 9 in. to 30 in.	LED 3000k	3.8W to 12W	High-Efficacy	Juno 'ULL-Series' or similar.
F5	Bathroom sconce on a dimmer	LED 3000k	Varies	High-Efficacy	
F6	Wall sconce on a dimmer.	LED 2700k	Varies	High-Efficacy	
F7	Exterior floodlight, controlled by a motion sensor and photo-control device.	LED 2700k	Varies	High-Efficacy	
F8	Surface-mount ceiling fixture on a dimmer	LED A19 Base 2700k	Varies	High-Efficacy	
F9	Surface-mount ceiling fixture, manual on with a vacancy sensor.	LED A19 Base 2700k	Varies	High-Efficacy	
F10	Decorative pendant.	LED A19 Base 2700k	Varies	High-Efficacy	
F11	Exterior sconce, manual on with vacancy sensor.	LED 3000k	Varies	High-Efficacy	

Keynotes

1. Ceiling Transition Above
2. Quad Outlet



1 Lighting and Electrical Plan - Proposed
Scale: 1/4" = 1'-0"

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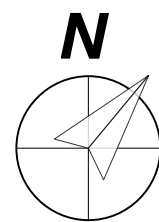
Proposed Electrical and Lighting Plan

DATE	Sep 20, 2023
PROJECT	21113
SCALE	1/4" = 1'-0"

A1.3



1 Floor Area Diagram - Existing
Scale: 1/4" = 1'-0"



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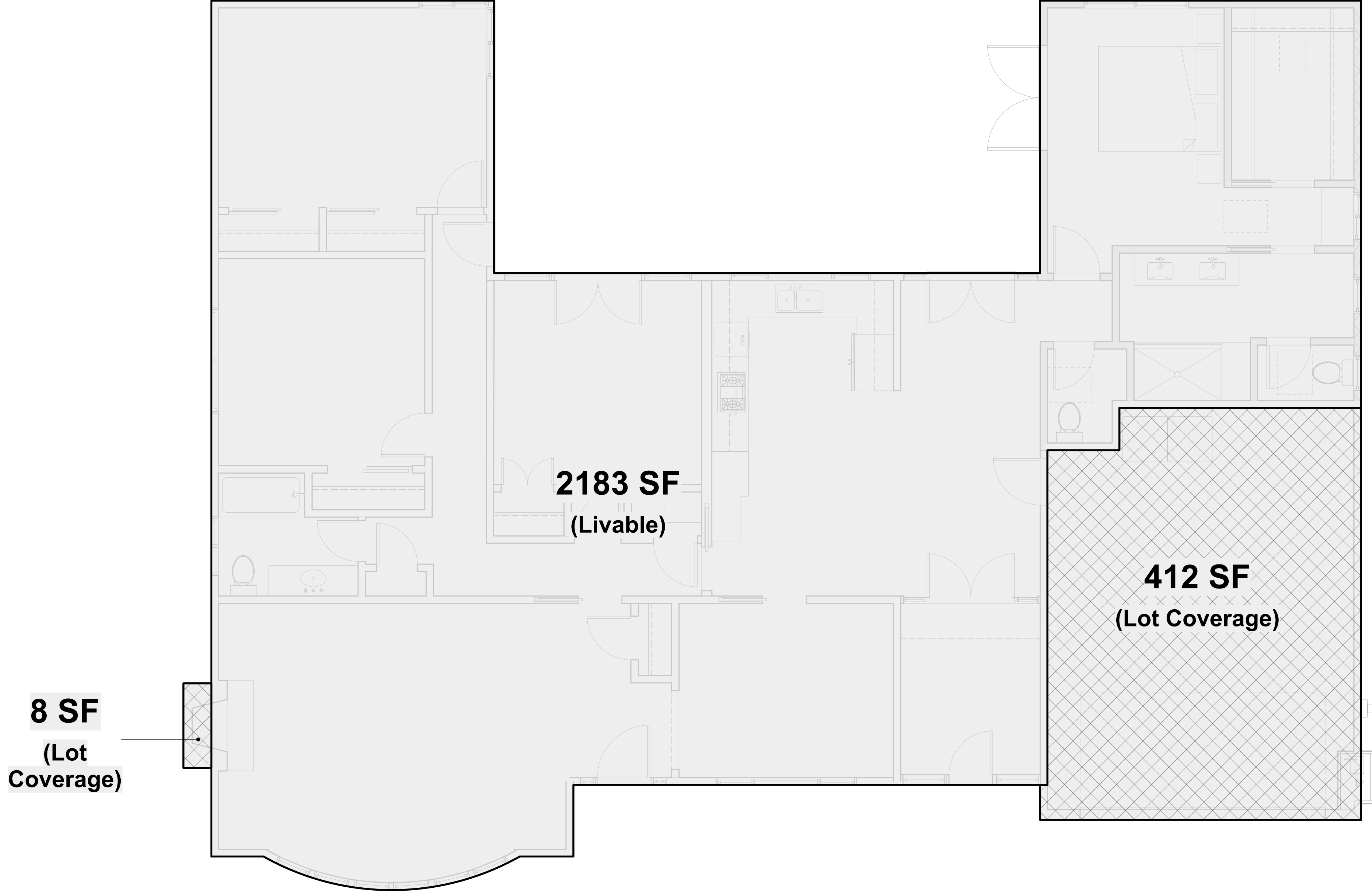
Existing Floor Area
Diagrams

DATE Sep 20, 2023

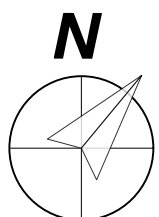
PROJECT 21113

SCALE 1/4" = 1'-0"

A1.4



1 Floor Area Diagram - Proposed
Scale: 1/4" = 1'-0"



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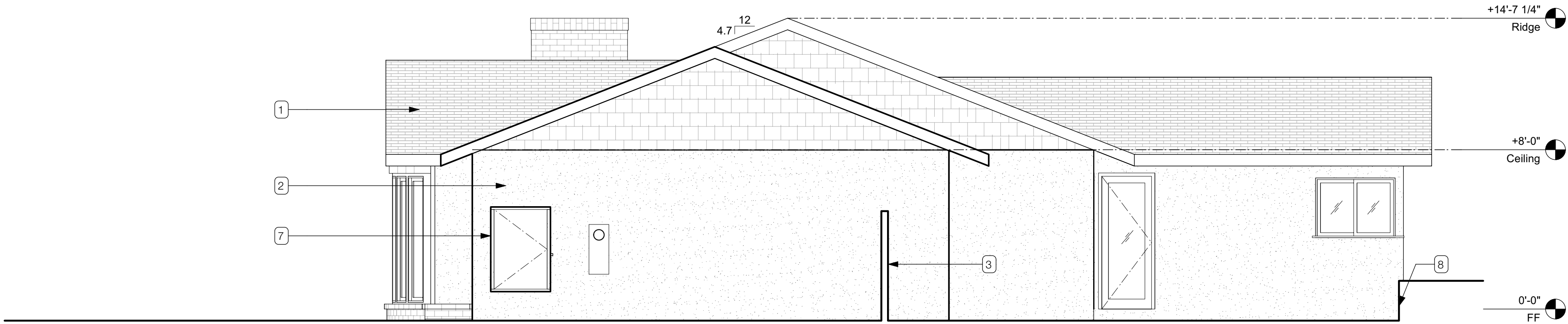
REVISIONS		DATE			
NO.	DESCRIPTION				

Proposed Floor Area Diagrams	
DATE	Sep 20, 2023
PROJECT	21113
SCALE	1/4" = 1'-0"

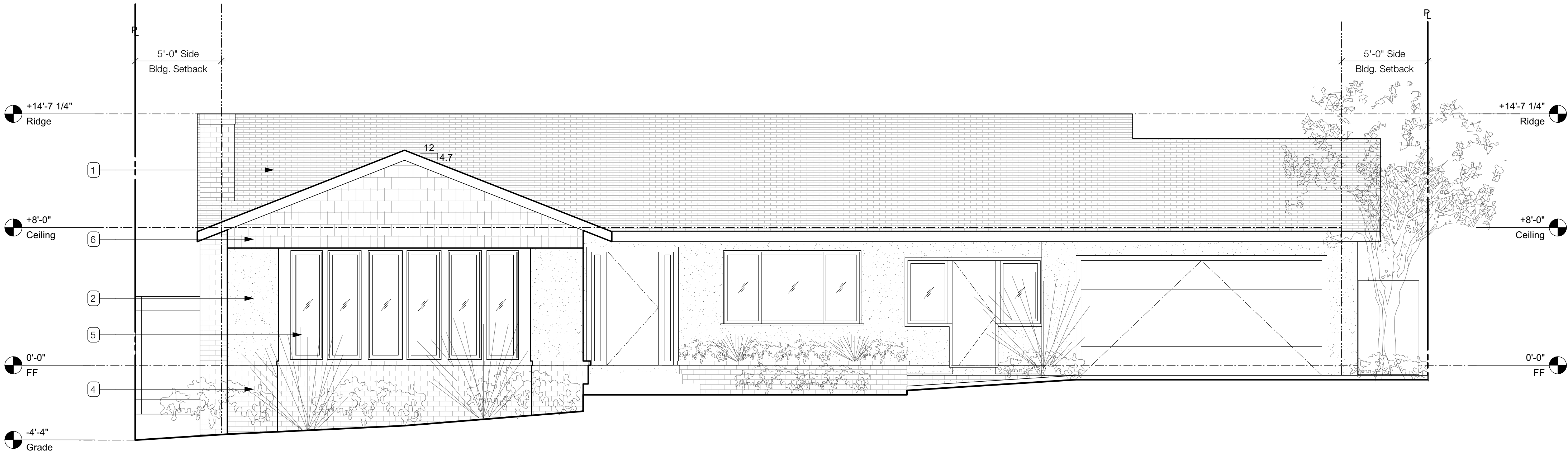
A1.5

Keynotes

- 1. (E) Asphalt Comp. Roof Shingles
- 2. (E) Painted Ext. Cement Plaster Finish
- 3. (E) Wood Fence
- 4. (E) Brick Wainscot
- 5. (E) Vinyl Windows
- 6. (E) Wood Shingle Siding
- 7. (E) Gas and Electrical Meters in Utility Closet
- 8. (E) Conc. Retaining Walls



2 East (Side) Elevation - Existing
Scale: 1/4" = 1'-0"



1 South (Front) Elevation - Existing
Scale: 1/4" = 1'-0"

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Existing Elevations

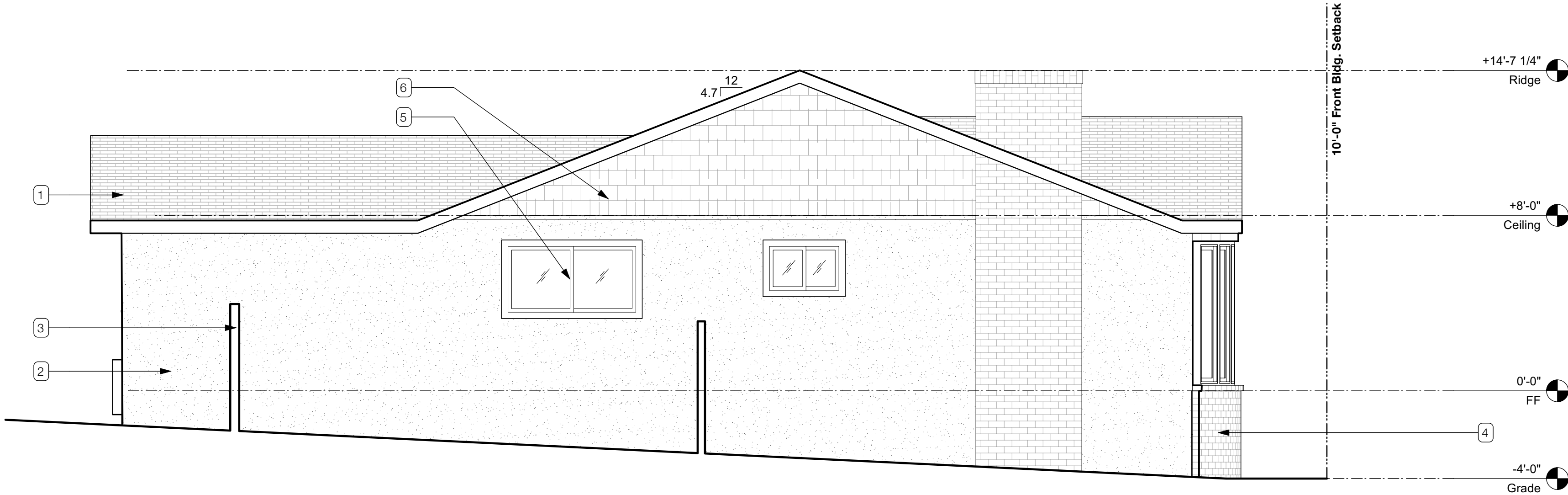
DATE Sep 20, 2023

PROJECT 21113

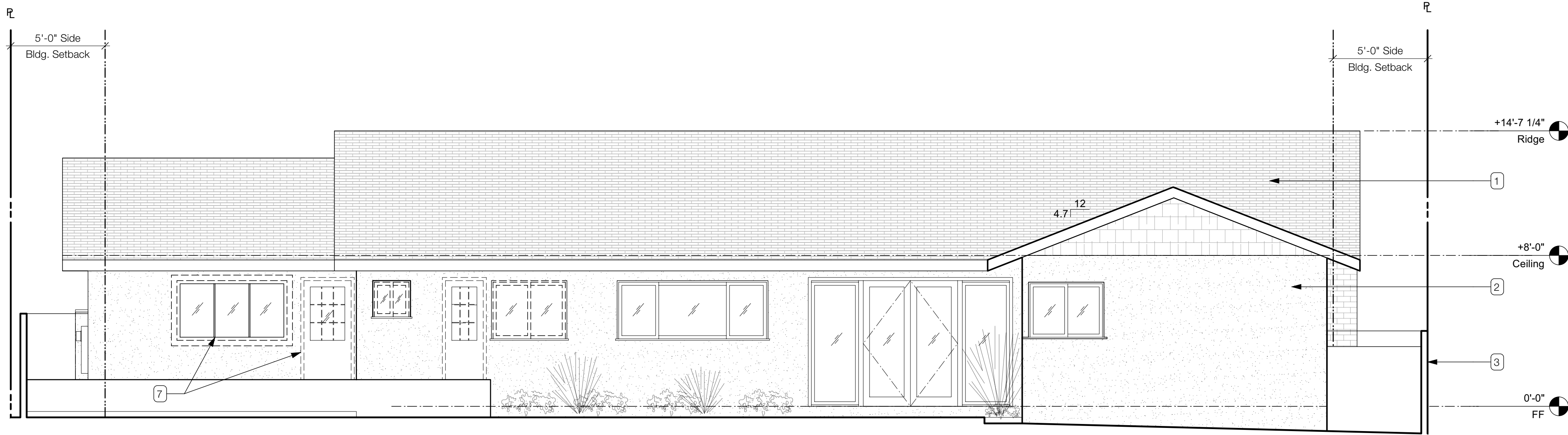
SCALE 1/4" = 1'-0"

A2.1

- Keynotes**
- 1. (E) Asphalt Comp. Roof Shingles
 - 2. (E) Painted Ext. Cement Plaster Finish
 - 3. (E) Wood Fence
 - 4. (E) Brick Wainscot
 - 5. (E) Vinyl Windows
 - 6. (E) Wood Shingle Siding
 - 7. Demo (E) Doors and Windows, Shown Dashed



2 West (Side) Elevation - Existing
Scale: 1/4" = 1'-0"

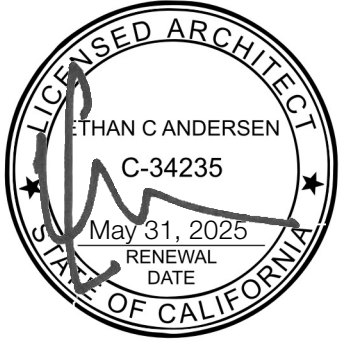


1 North (Rear) Elevation - Existing
Scale: 1/4" = 1'-0"

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Existing Elevations

DATE Sep 20, 2023

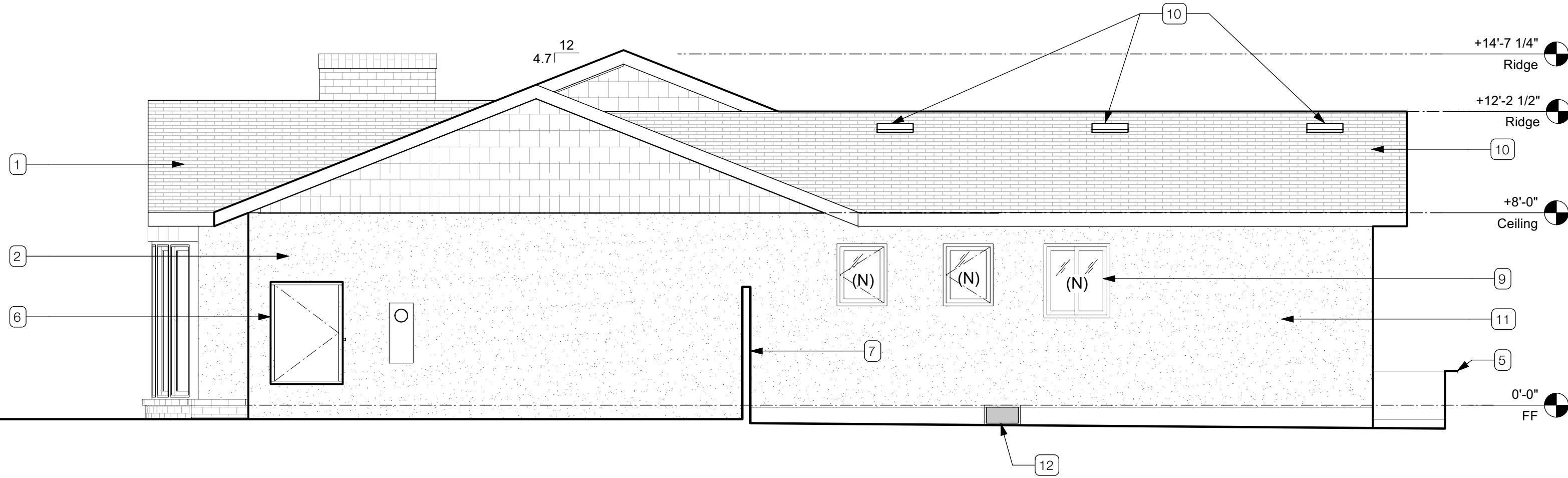
PROJECT 21113

SCALE 1/4" = 1'-0"

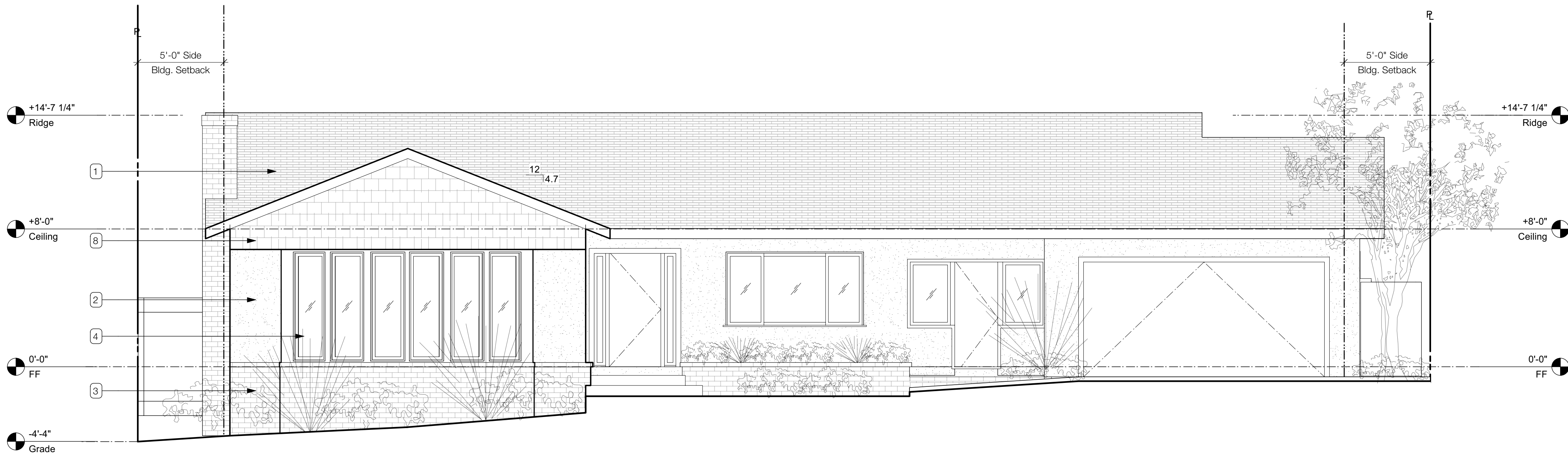
A2.2

- Keynotes**
- 1. (E) Asphalt Comp. Roof Shingles
 - 2. (E) Painted Ext. Cement Plaster Finish
 - 3. (E) Brick Wainscot
 - 4. (E) Vinyl Windows
 - 5. (N) Conc. Retaining Walls
 - 6. (E) Gas and Electrical Meters in Utility Closet
 - 7. (E) Wood Fence
 - 8. (E) Wood Shingle Siding
 - 9. (N) Vinyl Windows to Match (E)
 - 10. (N) Asphalt Comp. Roof Shingles to Match (E)
 - 11. (N) Painted Ext. Cement Plaster Finish to Match (E)
 - 12. (N) 16"x8" Crawlspace Vent

Note: Contractor to verify existing roof slope.
All new roof slopes to match existing.



2 East (Side) Elevation - Proposed
Scale: 1/4" = 1'-0"



1 South (Front) Elevation - Proposed
Scale: 1/4" = 1'-0"

7211 View Ave.
El Cerrito, CA 94530

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REVISIONS	DATE	
	NO.	DESCRIPTION

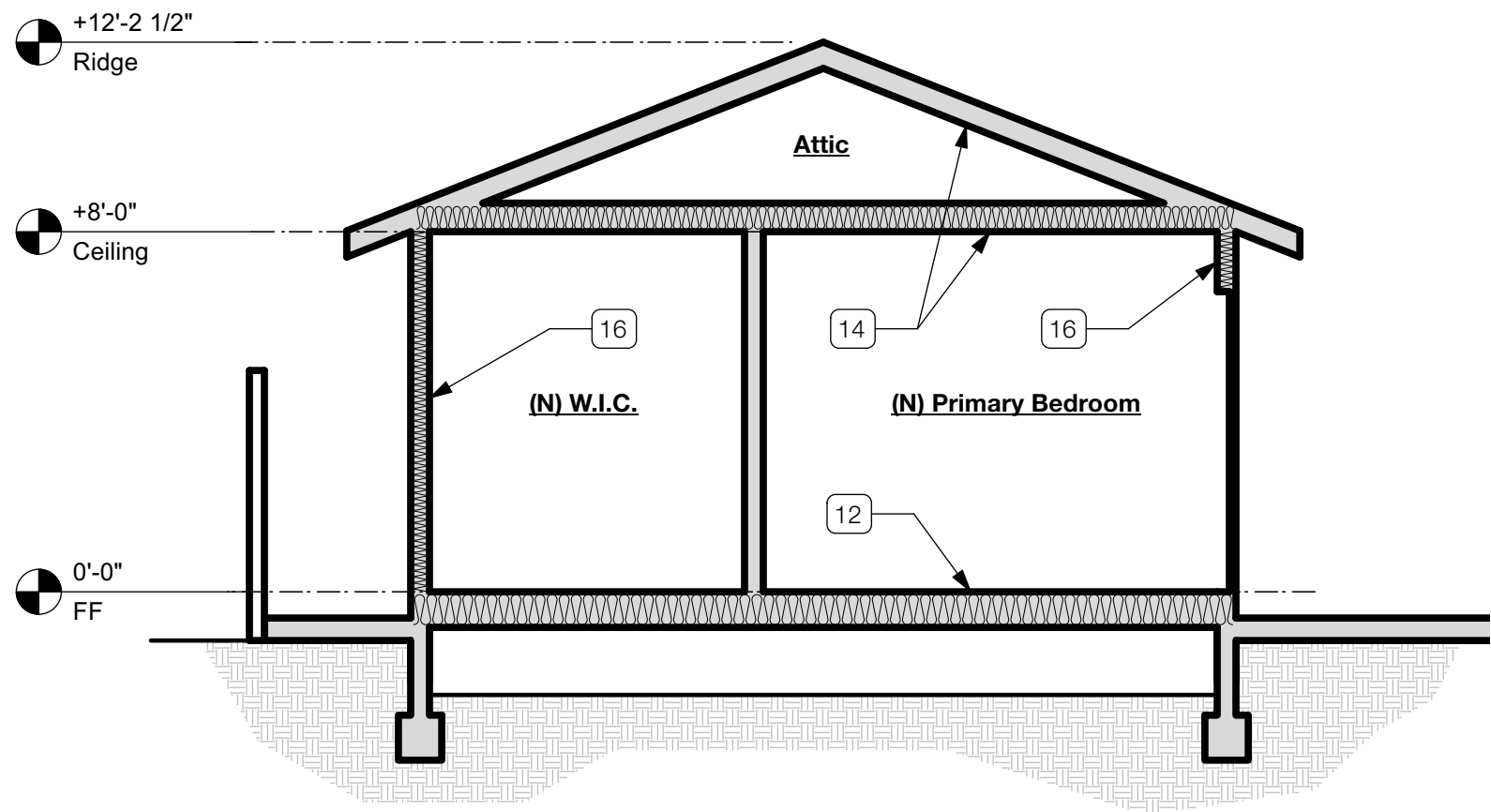
Proposed Elevations

DATE Sep 20, 2023

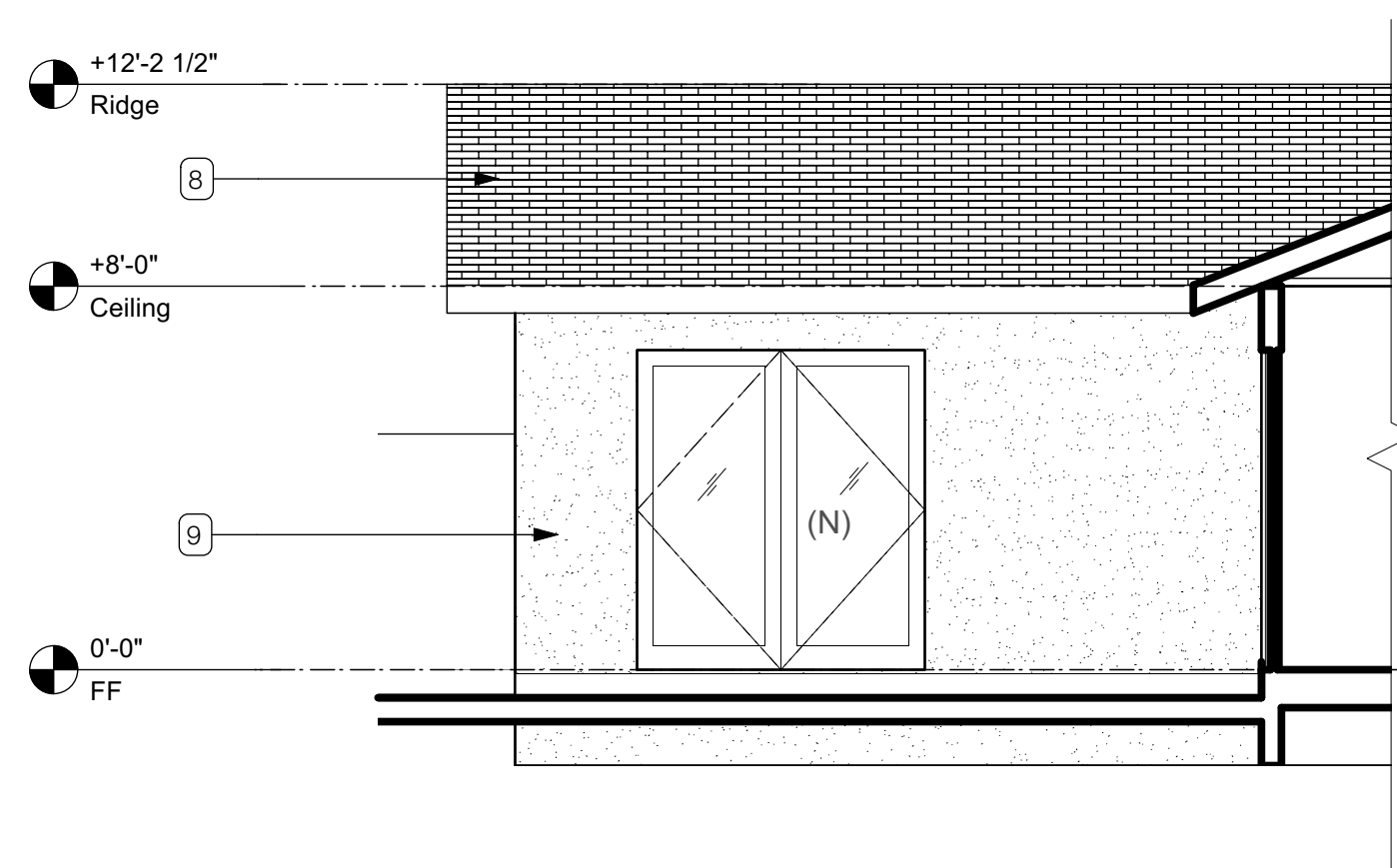
PROJECT 21113

SCALE 1/4" = 1'-0"

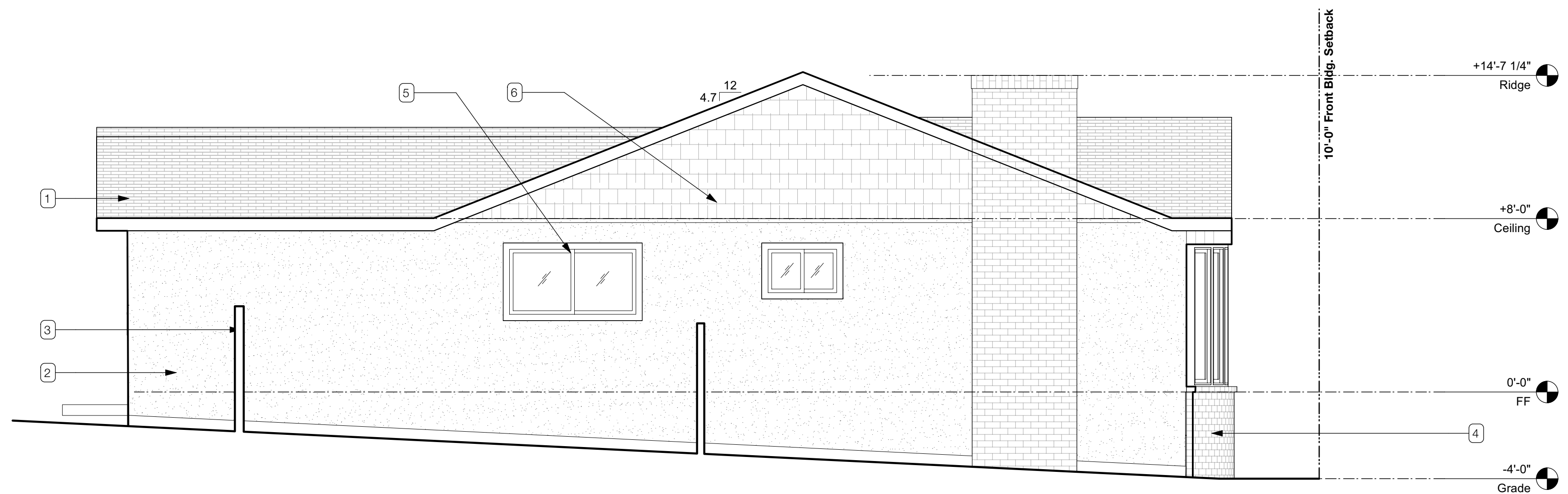
A2.3



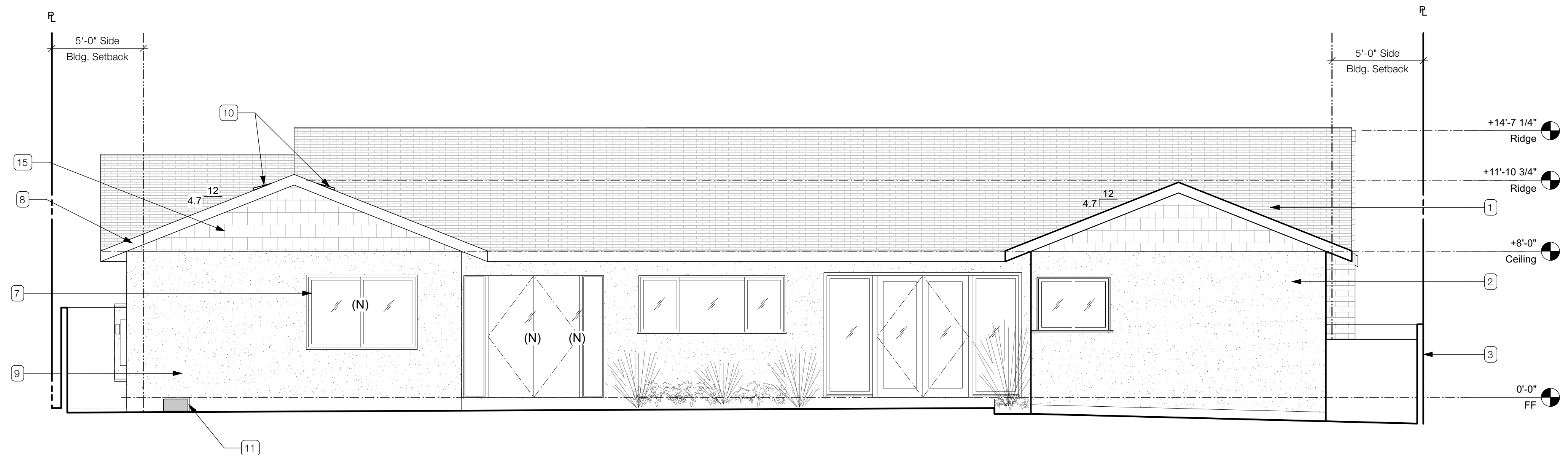
5 Building Cross Section - Addition
Scale: 1/4" = 1'-0"



3 Partial West Elevation - Proposed
Scale: 1/4" = 1'-0"



2 West (Side) Elevation - Proposed
Scale: 1/4" = 1'-0"



1 North (Rear) Elevation - Proposed
Scale: 1/4" = 1'-0"

Keynotes

- (E) Asphalt Comp. Roof Shingles
- (E) Painted Ext. Cement Plaster Finish
- (E) Wood Fence
- (E) Brick Wainscot
- (E) Vinyl Windows
- (E) Wood Shingle Siding
- (N) Vinyl Windows to Match (E)
- (N) Asphalt Comp. Roof Shingles to Match (E)
- (N) Painted Ext. Cement Plaster Finish to Match (E)
- (N) O'Hagin Attic Vent
- (N) 16"x8" Crawlspace Vent
- (N) TJI Floor Joists with R-19 insul., SSD
- N/A
- (N) Prefabricated Roof Trusses with R-30 insul., SSD
- (N) Wood Shingle Siding to Match (E)
- (N) 2x4 Wall Studs with R-15 insul., SSD

Note: Contractor to verify existing roof slope.
All new roof slopes to match existing.

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REVISIONS		
NO.	DESCRIPTION	DATE

Proposed Elevations

DATE Sep 20, 2023

PROJECT 21113

SCALE 1/4" = 1'-0"

A2.4

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

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GENERAL INFORMATION											
01	Project Name		Residential Addition & Remodel								
02	Run Title		Title 24 Analysis								
03	Project Location		7211 View Avenue								
04	City		El Cerrito	05	Standards Version		2022				
06	Zip code		94530	07	Software Version		EnergyPro 9.0				
08	Climate Zone		3	09	Front Orientation (deg/ Cardinal)		135				
10	Building Type		Single family		11	Number of Dwelling Units		1			
12	Project Scope		Addition and/or Alteration		13	Number of Bedrooms		4			
14	Addition Cond. Floor Area (ft²)		400		15	Number of Stories		1			
16	Existing Cond. Floor Area (ft²)		1783		17	Fenestration Average U-factor		0.3			
18	Total Cond. Floor Area (ft²)		2183		19	Glazing Percentage (%)		19.70%			
20	ADU Bedroom Count		n/a								

COMPLIANCE RESULTS	
01	Building Complies with Computer Performance
02	Building does not require field testing or HERS verification
03	This building incorporates one or more Special Features shown below

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ENERGY USE SUMMARY						
Energy Use	Standard Design Source Energy (EDR1) (kBtu/ft² - yr)	Standard Design TDV Energy (EDR2) (kTDV/ft² -yr)	Proposed Design Source Energy (EDR1) (kBtu/ft² -yr)	Proposed Design TDV Energy (EDR2) (kTDV/ft² -yr)	Compliance Margin (EDR1)	Compliance Margin (EDR2)
Space Heating	0	69.55	0	64.32	0	5.23
Space Cooling	0	15.5	0	18.57	0	-3.07
IAQ Ventilation	0	0	0	0	0	0
Water Heating	0	31.09	0	31.09	0	0
Self Utilization/Flexibility Credit						
Efficiency Compliance Total	0	116.14	0	113.98	0	2.16
Photovoltaics	0			0		
Battery				0		
Flexibility						
Indoor Lighting	0	7.14	0	7.14		
Appl. & Cooking	0	17.83	0	17.84		
Plug Loads	0	31.02	0	31.02		
Outdoor Lighting	0	1.77	0	1.77		
TOTAL COMPLIANCE	0	173.9	0	171.75		

Registration Number: CA Building Energy Efficiency Standards - 2022 Residential Compliance
Registration Date/Time: 2022.0.000
Report Version: 2022.0.000
Schema Version: rev 20220901
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ENERGY USE INTENSITY				
	Standard Design (kBtu/ft² - yr)	Proposed Design (kBtu/ft² - yr)	Compliance Margin (kBtu/ft² - yr)	Margin Percentage
Gross EUI¹	35.4	34.31	1.09	3.08
Net EUI²	35.4	34.31	1.09	3.08
Notes 1. Gross EUI is Energy Use Total (not including PV) / Total Building Area. 2. Net EUI is Energy Use Total (including PV) / Total Building Area.				

REQUIRED SPECIAL FEATURES	
The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis.	
• New ductwork added is less than 40 ft. in length	

HERS FEATURE SUMMARY	
The following is a summary of the features that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional detail is provided in the building tables below. Registered CF2Rs and CF3Rs are required to be completed in the HERS Registry	

BUILDING - FEATURES INFORMATION						
01	02	03	04	05	06	07
Project Name	Conditioned Floor Area (ft²)	Number of Dwelling Units	Number of Bedrooms	Number of Zones	Number of Ventilation Cooling Systems	Number of Water Heating Systems
Residential Addition & Remodel	2183	1	4	2	0	1

ZONE INFORMATION						
01	02	03	04	05	06	07
Zone Name	Zone Type	HVAC System Name	Zone Floor Area (ft²)	Avg. Ceiling Height	Water Heating System 1	Status
Existing	Conditioned	(e) FAU1	1783	9	DHW Sys 1	Existing Unchanged
Addition	Conditioned	(e) FAU1	400	9	DHW Sys 1	New

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OPAQUE SURFACES										
01	02	03	04	05	06	07	08	09	10	11
Name	Zone	Construction	Azimuth	Orientation	Gross Area (ft²)	Window and Door Area (ft2)	Tilt (deg)	Wall Exceptions	Status	Verified Existing Condition
Front	Existing	R-0 Wall	135	Front	490	186	90	none	Existing	No
Left	Existing	R-0 Wall	225	Left	450	29	90	none	Existing	No
Rear	Existing	R-0 Wall	315	Back	490	158	90	none	Existing	No
Right	Existing	R-0 Wall	45	Right	290	12	90	none	Existing	No
Front 2	Addition	R-15 Wall	135	Front	140	0	90	Extension	New	n/a
Left 2	Addition	R-15 Wall	225	Left	110	40	90	Extension	New	n/a
Rear 2	Addition	R-15 Wall	315	Back	140	24	90	Extension	New	n/a
Right 2	Addition	R-15 Wall	45	Right	160	18	90	Extension	New	n/a
Roof	Existing	R-19 Roof Attic	n/a	n/a	1783	n/a	n/a		Existing	No
Roof 2	Addition	R-30 Roof Attic	n/a	n/a	400	n/a	n/a		New	n/a
Raised Floor	Existing	R-0 Floor Crawlspace	n/a	n/a	1783	n/a	n/a		Existing	No
Raised Floor 2	Addition	R-19 Floor Crawlspace	n/a	n/a	400	n/a	n/a		New	n/a

ATTIC										
01	02		03	04	05	06	07	08	09	10
Name	Construction		Type	Roof Rise (x in 12)	Roof Reflectance	Roof Emittance	Radiant Barrier	Cool Roof	Status	Verified Existing Condition
Attic Existing	Attic RoofExisting		Ventilated	5	0.1	0.85	No	No	Existing	No
Attic Addition	Attic RoofAddition		Ventilated	5	0.1	0.85	No	No	New	n/a

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FENESTRATION / GLAZING															
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Name	Type	Surface	Orientatio n	Azimuth	Width (ft)	Heigh t (ft)	Mult.	Area (ft ²)	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading	Status	Verified Existing Condition
Window	Window	Front	Front	135			1	150	0.58	Table 110.6-A	0.65	Table 110.6-B	Bug Screen	Existing	No
Window 2	Window	Left	Left	225			1	29	0.58	Table 110.6-A	0.65	Table 110.6-B	Bug Screen	Existing	No
Window 3	Window	Rear	Back	315			1	132	0.58	Table 110.6-A	0.65	Table 110.6-B	Bug Screen	Existing	No
(n) Window	Window	Rear	Back	315			1	26	0.3	NFRC	0.8	NFRC	Bug Screen	New	NA
Window 4	Window	Right	Right	45			1	12	0.58	Table 110.6-A	0.65	Table 110.6-B	Bug Screen	Existing	No
(n) Window 2	Window	Left 2	Left	225			1	40	0.3	NFRC	0.8	NFRC	Bug Screen	New	NA
(n) Window 3	Window	Rear 2	Back	315			1	24	0.3	NFRC	0.8	NFRC	Bug Screen	New	NA
(n) Window 4	Window	Right 2	Right	45			1	18	0.3	NFRC	0.8	NFRC	Bug Screen	New	NA

OPAQUE DOORS					
01	02	03	04	05	06
Name	Side of Building	Area (ft²)	U-factor	Status	Verified Existing Condition
Entry Door	Front	20	0.5	Existing	No
Office Door	Front	16	0.5	Existing	No

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OPAQUE SURFACE CONSTRUCTIONS							
01	02	03	04	05	06	07	08
Construction Name	Surface Type	Construction Type	Framing	Total Cavity R-value	Interior / Exterior Continuous R-value	U-factor	Assembly Layers
R-0 Wall	Exterior Walls	Wood Framed Wall	2x4 @ 16 in. O. C.	R-0	None / None	0.361	Inside Finish: Gypsum Board Cavity / Frame: no insul. / 2x4 Exterior Finish: 3 Coat Stucco
R-15 Wall	Exterior Walls	Wood Framed Wall	2x4 @ 16 in. O. C.	R-15	None / None	0.095	Inside Finish: Gypsum Board Cavity / Frame: R-15 / 2x4 Exterior Finish: 3 Coat Stucco
Attic RoofExisting	Attic Roofs	Wood Framed Ceiling	2x4 @ 24 in. O. C.	R-0	None / 0	0.644	Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: no insul. / 2x4
Attic RoofAddition	Attic Roofs	Wood Framed Ceiling	2x4 @ 24 in. O. C.	R-0	None / 0	0.644	Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: no insul. / 2x4
R-0 Floor Crawlspace	Floors Over Crawlspace	Wood Framed Floor	2x8 @ 16 in. O. C.	R-0	None / None	0.218	Floor Surface: Carpeted Floor Deck: Wood Siding/sheathing/decking Cavity / Frame: no insul. / 2x8
R-19 Floor Crawlspace	Floors Over Crawlspace	Wood Framed Floor	2x10 @ 16 in. O. C.	R-19	None / None	0.046	Floor Surface: Carpeted Floor Deck: Wood Siding/sheathing/decking Cavity / Frame: R-19 / 2x10
R-19 Roof Attic	Ceilings (below attic)	Wood Framed Ceiling	2x4 @ 24 in. O. C.	R-19	None / None	0.049	Over Ceiling Joists: R-9.9 insul. Cavity / Frame: R-9.1 / 2x4 Inside Finish: Gypsum Board

Registration Number: CA Building Energy Efficiency Standards - 2022 Residential Compliance
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OPAQUE SURFACE CONSTRUCTIONS							
01	02	03	04	05	06	07	08
Construction Name	Surface Type	Construction Type	Framing	Total Cavity R-value	Interior / Exterior Continuous R-value	U-factor	Assembly Layers
R-30 Roof Attic	Ceilings (below attic)	Wood Framed Ceiling	2x4 @ 24 in. O. C.	R-30	None / None	0.032	Over Ceiling Joists: R-20.9 insul. Cavity / Frame: R-9.1 / 2x4 Inside Finish: Gypsum Board

BUILDING ENVELOPE - HERS VERIFICATION				
01	02	03	04	05
Quality Insulation Installation (QII)	High R-value Spray Foam Insulation	Building Envelope Air Leakage	CFM50	CFM50
Not Required	Not Required	N/A	n/a	n/a

WATER HEATING SYSTEMS											
01	02	03	04	05	06	07	08	09	10	11	12
Name	System Type	Distribution Type	Water Heater Name	Number of Units	Solar Heating System	Compact Distribution	HERS Verification	Water Heater Name (#)	Status	Verified Existing Condition	Existing Water Heating System
DHW Sys 1	Domestic Hot Water (DHW)	Standard	DHW Heater 1	1	n/a	None	n/a	DHW Heater 1 (1)	Existing	No	

WATER HEATERS														
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
Name	Heating Element Type	Tank Type	# of Units	Tank Vol. (gal)	Heating Efficiency Type	Efficiency	Rated Input Type	Input Rating or Pilot	Tank Insulation R-value (Int/Ext)	Standby Loss or Recovery Eff	1st Hr. Rating or Flow Rate	Tank Location	Status	Verified Existing Condition
DHW Heater 1	Gas	Small Storage	1	50	EF	0.57	Btu/Hr	75000	0	80	n/a		Existing	No

Registration Number: CA Building Energy Efficiency Standards - 2022 Residential Compliance
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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

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CF1R-PRF-01-E

Calculation Description: Title 24 Analysis

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:

Documentation Author Signature:

Robert Mao, PE, CEA

Company:

Signature Date:

The Energy Consulting Company

8/3/2023

Address:

CEA/HERS Certification Identification (if applicable):

6367 Swainland Road

City/State/Zip:

Phone:

Oakland, CA 94611

510-387-2756

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design identified on this Certificate of Compliance.

2. I certify that the energy features and performance specifications identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.

3. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

Responsible Designer Name:

Responsible Designer Signature:

DRAFTING CAFE ARCHITECTS

Company:

Date Signed:

DRAFTING CAFE ARCHITECTS

8.18.2023

Address:

License:

2350 Saratoga Street - #155

C-34235

City/State/Zip:

Phone:

Alameda, CA 94501

510-251-2511

Registration Number:

Registration Date/Time:

HERS Provider:

CA Building Energy Efficiency Standards - 2022 Residential Compliance

Report Version: 2022.0.000

Report Generated: 2023-08-03 08:37:00

Schema Version: rev 20220901

RESIDENTIAL MEASURES SUMMARY										RMS-1						
Project Name Residential Addition & Remodel		Building Type ☒ Single Family ☐ Multi Family		☐ Addition Alone ☒ Existing+ Addition/Alteration		Date 8/3/2023										
Project Address 7211 View Avenue El Cerrito		California Energy Climate Zone CA Climate Zone 03		Total Cond. Floor Area 2,183		Addition 400		# of Units 1								
INSULATION		Area		Special Features		Status										
Construction	Type	Cavity	(ft²)													
Wall	Wood Framed	R 15	140			New										
Wall	Wood Framed	R 15	70			New										
Wall	Wood Framed	R 15	116			New										
Wall	Wood Framed	R 15	142			New										
Roof	Wood Framed Attic	R 30	400			New										
Floor	Wood Framed w/Crawl Space	R 19	400			New										



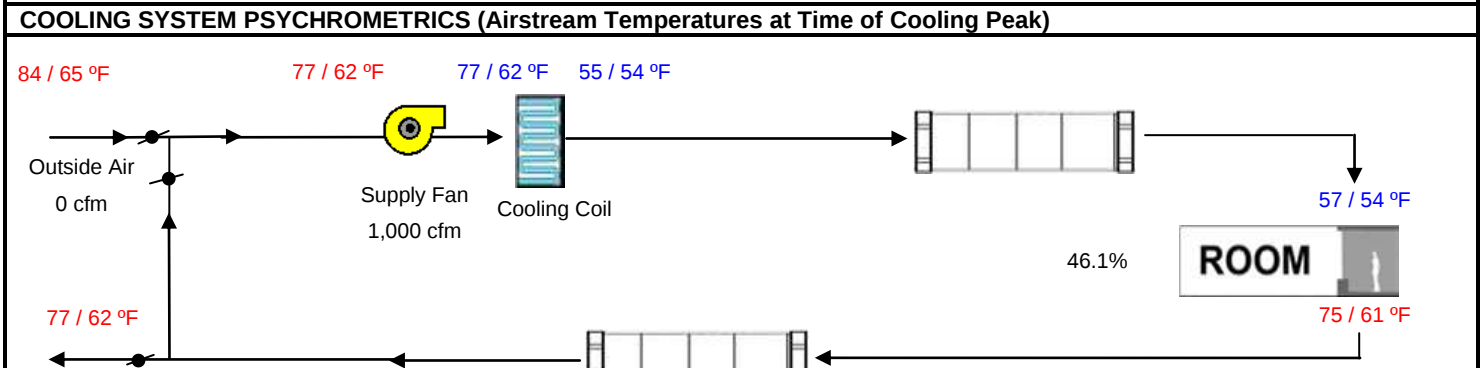
Solar Readiness:	
	Single-family Residences. Single-family residences located in subdivisions with 10 or more single-family residences and where the application for a tentative subdivision map for the residences has been described and approved by the enforcement agency. Each of the following items must be included in the construction documents, must comply with the requirements of § 110.100(e) and must be included in the construction documents: Minimum Solar Zone Area. The solar zone must have a minimum total area as described below. The solar zone must comply with access, pathway, smoke ventilation, and spacing requirements as specified in Title 24, Part 9 or other parts of Title 24 or in any requirements adopted by a local jurisdiction. The solar zone total area must be comprised of areas that have no dimension less than 5 feet and are no less than 80 square feet each for buildings with roof areas less than or equal to 10,000 square feet or no less than 160 square feet each for buildings with roof areas greater than 10,000 square feet. For single-family residences, the solar zone must be located on the roof or overhang of the building and have a total area no less than 250 square feet.
§ 110.100(f)(1)	
§ 110.100(f)(2)	Azimuth. All sections of the solar zone located on steep-sloped roofs must have an azimuth between 90-300° of true north.
§ 110.100(f)(3)	Shading. The solar zone must not contain any obstructions, including but not limited to: vents, chimneys, architectural features, and roof-mounted equipment.
§ 110.100(f)(3B)	Shading. Any obstruction located on the roof or any other part of the building that projects above a solar zone must be located at least twice the horizontal distance of the height difference between the highest point of the obstruction and the horizontal projection of the nearest point of the solar zone, measured in the vertical plane.
§ 110.100(f)(4)	Structural Design Loads on Construction Documents. For areas of the roof designated as a solar zone, the structural design loads for roof dead load and roof live load must be clearly indicated on the construction documents.
§ 110.100(f)(5)	Interconnection Pathways. The construction documents must indicate: a location reserved for inverters and metering equipment and a pathway reserved for routing of conduit from the solar zone to the point of interconnection with the electrical service; and for single-family residences and central water-heating systems, a pathway reserved for routing plumbing from the solar zone to the water-heating system.
§ 110.100(f)(6)	Documentation. A copy of the construction documents or a comparable document indicating the information from § 110.100(f)(2)-(6) must be provided to the occupant.
§ 110.100(f)(7)	Main Electrical Service Panel. The main electrical service panel must have a minimum busbar rating of 200 amps.
§ 110.100(f)(8)	Main Electrical Service Panel. The main electrical service panel must have a reserved space to allow for the installation of a double pole circuit breaker for a future solar electric installation. The reserved space must be permanently marked as "For Future Solar Electric."

5/6/22



*Exceptions may apply.

Air System					
CFM per System	1,000	HVAC EQUIPMENT SELECTION			
Airflow (cfm)	1,000	Gas FAU	0	0	55,000
Airflow (cfm/sqft)	0.46				
Airflow (cfm/Ton)	0.0				
Outside Air (%)	0.0		0	0	55,000
Outside Air (cfm/sqft)	0.00	Total Adjusted System Output (Adjusted for Peak Design conditions)			



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REVISIONS		
NO.	DESCRIPTION	DATE

DATE Sep 20, 2023

PROJECT 21113

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

T24.3

STATEMENT OF SPECIAL INSPECTIONS

- This Statement of Special Inspection is submitted in fulfillment of the requirements of the Governing Building Code, section 1704 and 1705.
- Special Inspections and Testings will be performed in accordance with the approved plans and specifications, this statement and the Governing Building Code, Section 1704 , 1705 , 1707 , and 1708.
- The schedule of Special Inspections summarizes the Special Inspections and tests required. Special Inspectors will refer to the approved plans and specifications for detailed special inspection requirements. Any additional tests and inspections required by the approved plans and specifications will also be performed.
- Interim reports will be submitted to the Building Official and the Registered Design Professional in Responsible Charge in accordance with the Governing Building Code Section 1704.2.4.
- A Final Report of Special Inspections documenting required Special Inspections, testing and correction of any discrepancies noted in the inspections shall be submitted prior to issuance of a Certificate of Use and Occupancy (Section 1704.2.4). The Final Report will document:
 - Required special inspections.
 - Correction of discrepancies noted in inspections.
- The Owner recognizes his or her obligation to ensure that the construction complies with the approved permit documents and to implement this program of special inspections. In partial fulfillment of these obligations, the Owner will retain and directly pay for the Special Inspections as required in the Governing Building Code, Section 1704.2.
- 1704.4 Contractor responsibility. Each contractor responsible for the construction of a main wind- or seismic force-resisting system, designated seismic system or a wind- or seismic force-resisting component listed in the statement of special inspections shall submit a written statement of responsibility to the building official and the owner or the owner's authorized agent prior to the commencement of work on the system or component. The contractor's statement of responsibility shall contain acknowledgement of awareness of the special requirements contained in the statement of special inspection.

SCHEDULE OF SPECIAL INSPECTIONS

Column Header Notation Used in Table:

C Indicates continuous inspection is required.

P Indicates periodic inspections are required. The notes and/or contract documents should clarify.

Box Entry Notation Used in Table:

X Is placed in the appropriate column to denote either "C" continuous or "P" periodic inspections.

-- Denotes a one-time activity or one whose frequency is defined in some other manner. Additional details regarding inspections are provided in the project specifications or notes on the drawings.

Verification & Inspection	C	P	Notes
1705.3 - Concrete			
4. Inspect anchors post-installed in hardened concrete			
a. Adhesive anchors ¹ installed in horizontally or upwardly included orientations to resist sustained tension			
b. Mechanical anchors ² and adhesive anchors ¹ not defined in 4.a	X		
FOOTNOTES:			
1. Prior to epoxy placement, it must be verified that the hole is clean, dry, and free of loose debris			
2. Periodic inspection shall take place such that the installation of a minimum of two (2) anchors per each shear wall be observed			
1705.13.2 - Seismic Resistance - Structural Wood			
2. Inspect nailing, bolting, anchoring, and other fastening of elements of the main seismic force-resisting system, including wood shear walls, wood diaphragms, collectors (drag struts), braces, shear panels, and hold-downs	X		Inspection of shear walls and diaphragms with fasteners spaced greater than 4" oc is not required panels, and hold-downs

SEISMIC REQUIREMENTS (Section 1705.13)

Description of seismic-force-resisting system and designated seismic systems subject to special inspections per Section 1705.13:

Light-framed walls sheathed with wood structural panels rated for shear resistance or steel sheets (ASCE 7, Table 12.2-1, Line A.15)

The extent of the main seismic-force-resisting system is defined in more detail in the construction documents.

NOTE: The Engineer of Record Shall Observe the Following Items:

- Reinforcing Placement
- Shearwalls and Floor Systems Used as Shear Diaphragms
- Holdowns and Anchor Bolts

*At the Discretion of the Building Department, the Engineer of Record may be Retained to Perform the Required Visual Special Inspection for Epoxy Anchors

GENERAL NOTES

- The following notes, details, schedules & specifications shall apply to all phases of this project unless specifically noted otherwise. Notes and details on the structural plans shall take precedence over general notes and typical details. Where no details are given, construction shall be as shown for similar work.
- All drawings are considered to be part of the contract documents. The Contractor shall be responsible for the review and coordination of all drawings and specifications prior to the start of construction. Any discrepancies shall be brought to the attention of the Engineer prior to the start of construction so that a clarification can be issued. Any work performed in conflict with the contract documents or any applicable code requirements shall be corrected by the Contractor at no expense to the Owner or Engineer.
- All information on existing conditions shown on the structural plans are based on best present knowledge available, but without guarantee of accuracy. The Contractor shall be responsible for the verifications of all dimension and conditions at the site. Any discrepancies between actual site conditions and information shown on the drawings or in the specifications shall be brought to the attention of the EOR prior to the start of construction.
- Refer to the Architectural plans for the following:
 - Dimensions
 - Size and location of all interior and exterior wall locations.
 - Size and location of all floor, roof and wall openings
 - Size and location of all drains, slopes, depressions, steps, etc.
 - Specification of all finishes & waterproofing
 - For all other non-structural elements
- Refer to the mechanical, electrical and plumbing plans for the following:
 - Size and location of all equipment
 - Pipe runs, sleeves, hangers and branches
 - All other mechanical, electrical or plumbing related elements
- DO NOT** scale structural plans. Contractor shall use all written dimensions on Architectural plans.
- Construction materials shall be uniformly spread out if placed on floor or roof so as to not overload the framing. Load shall not exceed the design live load per square foot. It is the Contractor's responsibility to provide adequate shoring and/or bracing as required.
- Specifications and detailing of all waterproofing and drainage items, while sometimes shown on the structural plans for general information purposes only, are solely the design responsibility of others.
- The Engineer will not be responsible for and will not have control or charge of construction means, methods, techniques, sequences or procedures, or for safety precautions and programs in connection with the construction delineated by these plans. It should be understood that the Contractor or his/her agent(s) shall supervise and direct all work and shall be solely and completely responsible for all construction means, methods, techniques, sequences, procedures and conditions on the job site, including safety of all persons and property during the entire period of construction. Periodic observations by the Engineer, his staff or representatives are not intended to include verification of dimensions or review the adequacy of the Contractor's safety measures on or near the construction site.
- Modifications of the plans, notes, details and specifications shall not be permitted without prior approval from the Engineer.
- All workmanship shall conform to the best practice prevailing in the various trades performing the work. The Contractor shall be responsible for coordinating the work of all trades.
- It is the Contractor's responsibility to ensure that only approved structural plans are used during the course of construction. The use of unapproved documents shall be at the contractor's own risk. Corrections of all work based on such documents shall be performed at the Contractor's expense.
- These plans and specifications represent the structural design only. No information nor warranty is provided for the work of any other Contractor (Architect, Mechanical, Electrical, etc.). This includes, but is not limited to, waterproofing, drainage, ventilation, accessibility, or dimensions.

FOUNDATIONS

- Refer to Structural Design Parameters section on sheet S-1.1 for all soil design values used in calculations.
- Soils values per Table 1806.2 of the latest edition of the Governing Building Code.
- Unexpected Soil Conditions: At the discretion of the engineer of record, or the local building department, a soils report may be required in the event that substandard material is discovered on site. If this occurs, contact Engineer of Record for further guidance.
- All compaction, fill, backfilling and site preparation shall be performed in accordance with project soils report or the Governing Building Code Chapter 18 & Appendix J. All such work shall be performed under the supervision of the building official.
- Excavate to required depths & dimensions (as indicated in the drawings), cut square and smooth with firm level bottoms. Care shall be taken not to over-excavate foundation at lower elevation and prevent disturbance of soils around high elevation.
- Foundations shall be poured in neat excavations.
- Excavate all foundations to required depths into compacted fill or natural soil (as per plans and details) and as verified by the building official.
- All foundations shall be inspected and approved by the appropriate building official prior to forming and placement of reinforcing or concrete.
- Foundations shall not be poured until all required reinforcing steel, framing hardware, sleeves, inserts, conduits, pipes, etc. and formwork is properly placed and inspected by the appropriate building official/inspector(s).
- It is the responsibility of the contractor in charge of framing to properly position all holdown bolts, anchor bolts, column bases, and all other cast-in-place hardware. Refer to typical details. All hardware to be secured prior to foundation inspections.
- The sides and bottoms of dry excavations must be moistened to optimum moisture content or just above, just prior to placing concrete. Conversely, de-water footings as required to remove standing water and to maintain optimum working conditions.
- The Contractor shall be solely responsible for all excavation procedures including lagging, shoring, and the protection of adjacent property, structures, streets, and utilities in accordance with all federal, state and local safety ordinances. The Contractor shall provide for the design and installation of all cribbing, bracing and shoring required.

ROD AND REBAR EPOXY INSTALLATION

- Special inspection is required, unless specifically noted otherwise. Special inspection services shall conform to the Governing Building Code, Chapter 17 and shall be provided by an ICC certified inspector or Building Department approved engineer. The Building Department reserves the right to waive or require special inspections. Nothing in these plans waives the Building Department's right to require special inspection at any point and on any material.
- Epoxy for anchoring bolts, rods, and reinforcing bars shall be as follows:
 - Concrete: Hilti HIT RE 500 v3 (ICC ESR-3814), Hilti HY 200 (ICC ESR-3187), or Simpson SET-3G (ICC ESR-4057).
 - Full Grouted Masonry: Hilti HY 200 (ICC ESR-3187), or Hilti HY 270 (ICC 2682), or Simpson SET-3G (ICC ESR-4057).
 - Hollow Cell Masonry Units and Unreinforced Masonry: Hilti HY 270 (ICC 2682), or Simpson ET-HP (ICC ESR 3372).
- Anchors shall be installed in accordance with the manufacturer's printed installation instructions by qualified personnel trained to install epoxy anchors.
- Holes for post-installed anchors shall be drilled with a carbide tipped concrete/masonry drill bit using an electro-pneumatic hammer drill bit set in "rotation and hammer" mode. Hole diameter shall be 1/8" larger than the anchor diameter specified, unless noted otherwise. For installation in brick or hollow cell masonry units with a screen tube, the hole diameter shall be 1/4" larger than the anchor diameter, unless noted otherwise.
- DO NOT drill through existing reinforcing. A small diameter test hole shall be drilled at the installation location. If existing reinforcing is encountered, the installation location shall be relocated to avoid conflict and the abandoned hole shall be filled with non-shrink grout or drypack. For holes drilled into columns and beams, remove the rebar cover in order to positively identify the rebar location such that the holes avoid the rebar. Other non-destructive means may be used to identify the positions and depth of reinforcing.
- Holes shall be cleaned of dust and debris by blowing with 90 psi oil-free compressed air, brushing with a wire brush two times, and blowing with compressed air again to achieve a relatively dust-free wall surface.
- The base material shall be a minimum of 28 days old, within a temperature range of 50°F - 100°F, and dry at the time of epoxy installation. The base material shall have a minimum strength as follows:
 - Concrete: 2,500 psi
 - Full Grouted Masonry: 2,000 psi
- Fill each hole 1/2 - 2/3 full with epoxy, starting from the bottom of the hole to prevent air pockets. Withdraw the nozzle as the hole fills up with epoxy. Insert clean, oil-free anchor, turning slowly until the anchor contacts the bottom of the hole. DO NOT disturb anchor until fully cured. Cure time shall be per the manufacturer's installation instructions.

CONCRETE

- All concrete shall have:
 - an ultimate compressive strength (f'c) of 3,000 psi at 28 days (UNO).
 - a maximum slump of 5" at point of placement.
 - a W/C ratio of 0.55 or less for all slabs, walls, and columns, and 0.60 or less for all footings.
 - a normal dry-weight density (UNO).
- Special inspection is **NOT** required as the foundations have been *designed* with f'c = 2,500 psi in accordance with the Governing Building Code, section 1705.3, exceptions 1, 2.1, and 2.3, unless explicitly specified herein, on the structural plans, or by the Building Department. At a minimum, special inspection is always required on:
 - structural slabs, flat plates
 - walls, columns, beams
 - piles, caissons
 - welding of reinforcement, installation of mechanical bar splice devices, epoxy applicationWhen required or specified, special inspection services shall conform to the Governing Building Code, Chapter 17 and shall be provided by an ICC certified inspector or Building Department approved engineer. The Building Department reserves the right to waive or require special inspections. Nothing in these plans waives the Building Department's right to require special inspection at any point and on any material.
- Testing of materials used in concrete construction must be performed as noted on structural plans or at the request of the Building Department to determine if materials are quality specified. Tests of materials and of concrete shall be made by an approved agency and at the expense of the contractor; such tests shall be made in accordance with the standards listed in the Governing Building Code, Table 1705.3. When testing of concrete is required, four (4) test cylinders shall be taken from each 150 yards, or fraction thereof, poured in any one day. One (1) cylinder shall be tested at seven (7) days; two (2) at 28 days; one (1) shall be held in reserve. Where 4x8 cylinders are used, (5) test cylinders shall be taken, with (3) cylinders tested at 28 days. If Contractor elects to have additional tests performed for "early-break" results, additional test cylinders must be taken. At no time shall the Contractor instruct the testing agency to perform tests on a schedule different than above without the prior authorization of the Engineer. Contractor is responsible for complying with applicable testing requirements of the Building Department. Copies of all test reports shall be provided to Engineer and Building Department for review in a timely manner.
- The Contractor shall remove and replace any concrete which fails to attain specified 28 day compressive strength if so directed by the Engineer. Any defects in the hardened concrete shall be repaired to the satisfaction of the Engineer and/or Architect or the hardened concrete shall be replaced at the Contractor's expense.
- All concrete work shall conform with the Governing Building Code, Chapter 19.
- All cement shall be Portland Cement Type I or II and shall conform to ASTM C150.
- All aggregates shall conform to ASTM C33. Maximum aggregate sizes:
 - Footings: 1-1/2"
 - All other work: 3/4"
- Where not specifically detailed, the minimum concrete cover on reinforcing steel shall be:
 - Permanently exposed to earth or weather
 - Cast against earth: 2"
 - Cast against forms: 3"
 - Not exposed to earth or weather
 - Slabs, walls, joists: 3/4"
 - Beams, girders, columns: 1-1/2"
- The minimum lap splice length for all reinforcing steel shall be as noted in the typical details and sheet S-1.1. All lap splices to be staggered.
- All reinforcing steel, anchor bolts, dowels, inserts, and any other hardware to be cast in concrete shall be well secured in position prior to foundation inspection. All hardware to be installed in accordance with respective manufacturer's specifications. Refer to architectural and structural plans for locations of embedded items.
- Locations of all construction joints, other than specified on the structural plans, shall be approved by the Architect and Engineer prior to forming. Construction joints shall be thoroughly air and water cleaned and heavily roughened so as to expose coarse aggregates. All surfaces to receive fresh concrete shall be maintained continuously wet at least three (3) hours in advance of concrete placement. Unless specifically detailed or otherwise noted, construction and control joints shall be provided in all concrete slabs-on-grade. Joints shall be located such that the area does not exceed 400 sq. feet.
- The Architect, Engineer and appropriate inspectors shall be notified in a timely manner for a reinforcement inspection prior to the placement of any concrete.
- The Contractor shall obtain approval from the Architect and the Engineer prior to placing sleeves, pipes, ducts, chases, coring and opening or on through structural concrete beams, walls, floors, and roof slabs unless specifically detailed or noted on the plans. All piles or conduits passing through concrete members shall be sleeved with standard steel pipe sections.
- The Contractor is responsible for design, installation, maintenance and removal of all formwork. Forms shall be properly constructed, sufficiently tight to prevent leakage, sufficiently strong and braced to maintain their shape and alignment until no longer needed for concrete support. Joints in formwork shall be tightly fitted and blocked, and shall produce a finished concrete surface that is true and free from blemishes. Forms for exposed concrete shall be pre-approved by the Architect to ensure conformance with design intent.
- Remove formwork in accordance with the following schedule:
 - Forms at slab edge: 1 day
 - Side forms at footings: 2 days
 - All other vertical surfaces: 7 days
 - Beams, columns, girders: 15 days
 - Elevated slabs: 28 daysEngineer reserves the right to modify removal schedule above based on field observations, concrete conditions, and/or concrete test results.
- Retaining walls shall not be backfilled until concrete has set a minimum of 14 days. Refer to structural plans for slab and/or framing installation sequencing.
- All concrete (except slabs-on-grade 6" or less) shall be mechanically vibrated as it is placed. Vibrator to be operated by experienced personnel. The vibrator shall be used to consolidate the concrete. The vibrator shall not be used to convey concrete, nor shall it be placed on reinforcing and/or forms.
- Concrete shall be maintained in a moist condition for a min. of five (5) days after placement.
- Concrete shall not be permitted to free fall more than six (6) feet. For heights greater than six (6) feet, use trowie, pump or other method consistent with applicable standards.
- When specified ultimate compressive strength is greater than 2500 psi, Contractor shall submit mix designs to Architect and Engineer for approval seven (7) days prior to placement. Mix designs shall be prepared by an approved testing laboratory. Sufficient data must be provided for all admixtures.
- Refer to Architectural plans for locations of all dimensions, slab depressions, slopes, drains, curbs, and control joints.

REINFORCEMENT

- Reinforcing steel shall be deformed, clean, free of rust, grease or any other material likely to impair concrete bond.
- All bars shall conform to ASTM A615, Grade 60 minimum (UNO on structural plans). All weld wire fabric (WWF) shall conform via ASTM A185.
- Reinforcing steel that is to be welded shall conform to ASTM A706. All welding of reinforcement shall be subject to special inspection.
- Contractor shall take necessary steps (standard ties, anchorage devices, etc.) to secure all reinforcing steel in their true position and prevent displacement during concrete placement.
- Fabrication, placement and installation of reinforcing steel shall conform to:
 - Concrete Reinforcing Steel Institute (CRSI) Manual of Standard Practice
 - The Governing Building Code
- Shop drawings for fabrication of reinforcing steel shall be approved by the Contractor and submitted to the Architect and Engineer for review and approval prior to fabrication. Shop drawings are not required for slabs-on-grade or foundations unless specifically noted on the structural plans.
- Heating of reinforcing steel to aid in bending and shaping of bars is not permitted. All bends in reinforcing steel are to be made cold. All bend radii shall conform to CRSI Manual of Standard Practice.
- Refer to Concrete and Masonry notes for specific minimum splice length and splice staggering requirements. Lap welded wire fabric (WWF) reinforcement two (2) modules minimum (UNO). All splices are to be staggered.

ROUGH CARPENTRY

- Refer to latest edition of the Governing Building Code, Table 2304.10.2, for all minimum nailing requirements.
- Refer to individual sections for applicable material specifications.
- Fabricate, size, install, connect, fasten, bore, notch, and cut wood and plywood with joints true, tight, and well-nailed, screwed or bolted as required, all members to have solid bearing without being shimmed, unless noted otherwise. Set horizontal members subject to bending with the crown up. Install framing plumb, square, true and cut for full bearing. Splices are not permitted between bearings. Use full lengths unless otherwise specified.
- Metal framing angles, anchor, clips, straps, ties, holdowns, etc. shall be mfg by Simpson Strong-Tie Co. No substitutions shall be permitted without prior approval of the Engineer.
- All walls are to have continuous double 2x top plates spliced as followings unless specifically noted otherwise on the plans and details.
- Wall Studs:
 - Unless specifically noted on the plan and details, use the following guidelines for wall framing:
 - Use 2x4 studs at 16" oc for walls less than 9'-0" tall.
 - Walls 9'-0" to 16'-0" tall shall be constructed of 2x6 studs at 16" oc.
 - Request specifically engineered wall details for walls greater than 16'-0" tall.
- Blocking:
 - Provide min. one row of nominal 2" thick blocking of same width as stud, fitted snugly and spiked into studs at mid-height of partitions or walls over 8' high.
 - All foundation cripple walls (or "pony walls") less than 14" in height shall be solid blocking.
 - Rim blocking/rim board to be 1-1/4" minimum width x full depth at bearing walls, UNO per plans and details. Refer to shearnail section for additional rim/blocking requirements.
- Notching:
 - Is not permitted of any structural member without prior approval
 - In exterior and bearing walls, notches shall not exceed 25% of the stud depth.
 - Non-bearing partition walls, notches shall not exceed 40% of the stud depth.
 - Successive notches in the same member shall be spaced a min of 18" apart.
- Boring:
 - Is not permitted of any structural member without prior approval
 - In exterior and bearing walls, holes shall not exceed 40% of the stud depth.
 - Non-bearing partition walls, may be drilled not greater than 60% of stud depth.
 - Successive holes in the same member shall be spaced a minimum of 18" apart.
- Bearing:
 - Provide a min. of 1-1/2" of bearing for all 2x joists and hdsr 4x10 / 6x8 & smaller.
 - All concrete work shall conform with the Governing Building Code, Chapter 19.
 - Provide a min. of 3" of bearing for all beams and hdsr 4x12 / 6x10 & larger, UNO on plans.
 - Members bearing on prefabricated hangers are to have full bearing and nailing per manufacturer's specifications.
- Posts:
 - Posts inside walls shall bear on sill plates and shall be continuous between top and bottom plates, unless specifically noted otherwise.
 - Provide posts under all beams, girders or double joists equal to the width of the supported member.
 - Posts on upper levels are to be stacked on posts of equal size at levels below, unless a larger post is specified on the plans.
 - Vertically oriented blocking ("squash blocking") shall be used to fully transfer the post area through floors to foundation. Vertical blocking shall be equal to floor thickness plus 1/16".
 - Headers framing into continuous posts without trimmer studs shall be supported in Simpson HUC hangers unless noted otherwise on the plans.
 - Posts when isolated, shall be seated in Simpson post or column bases, unless noted otherwise on the plans
- Roof Framing:
 - Provide wood joists, as specified, laid with the crown up and spaced as indicated.
 - Provide a minimum of 1-1/2" end bearing unless otherwise shown.
 - Provide full depth solid 2x blk or cross-bridging between the joists at 8' oc max.
 - Provide all cricket framing required to achieve positive drainage per Arch.
 - Install plywood panels with the face grain across the framing and close joints and nail at each support. Fully nail with common nails per the plans.
 - Plywood panels shall not be less than 4' x 8' except at boundaries and changes in framing direction, where the minimum panel dimension shall be no less than 24", unless all edges of undersized panels are supported by and fastened to framing members or blocking.
 - Provide Simpson "PSCl" clips at all plywood joints perpendicular to framing. Provide clips midway between framing members at the unsupported edges of plywood when members are spaced at 24" oc or greater. If clips are not used, provide solid blocking for joints perpendicular to framing.
- Floor Framing:
 - Provide wood joists, as specified, laid with the crown up and spaced as indicated.
 - Provide a minimum of 1-1/2" end bearing unless otherwise shown.
 - Provide full depth solid 2x blk or cross-bridging between the joists at 8' oc max. For floors framed with I joists, refer to the mfg's spec's for blk requirements.
 - Provide full depth solid 2x blocking between the joists under all walls and partitions where the wall or partition is perpendicular to the floor framing (including floors framed with I joists)
 - Install plywood sheathing with the face grain across supports, and supports staggered, and the edges of sheets centered over supports. If T&G plywood is used, blocking need not be provided at all plywood edges (UNO per plan). If T&G plywood is not used, blocking shall be provided at all plywood edges. Glue plywood to joists and fully nail with common nails per the plans.
 - Plywood panels shall not be less than 4' x 8' except at boundaries and changes in framing direction, where the minimum panel dimension shall be no less than 24", unless all edges of undersized panels are supported by and fastened to framing members or blocking.
- Shear Walls:
 - Refer to plans for all shearnail locations, length type and nailing.
 - Refer to Shearnail Schedule on title sheet for additional information.
 - Shear wall lengths specified on plans are minimum required.
 - Shear walls to be nailed with common nails. All nails to have minimum 3/8" edge distance to panel or framing member.
 - Where 3x framing is required per the shear wall schedule, stagger edge nailing.
 - Oriented Strand Board (OSB) may be used in lieu of plywood.
 - Typical Rim Board/Blocking at Shearwalls shall be 1-3/4" Min. LSL (refer to Engineered Lumber Section for Material Specifications). Refer to Shearnail Schedule per Plan for Min. Rim/Blkg Width Requirements per Transfer Fasteners.

TIMBER / LUMBER

- All structural lumber shall be Douglas Fir-Larch, S4S and shall conform to the Governing Building Code, section 2303.1.1.
- The minimum lumber grade of each member shall be as follows (unless specifically noted otherwise on plans and details):
 - 2x studs, blocking, plates: Stud
 - 2x joists #2 or better
 - 4x4, 4x6, or 6x6 beams or posts #2 or better
 - 4x8, 6x8, or larger beams or posts #1 or betterIt is recommended (but not required) that all exposed members be Select Structural or better and free of heart center due to visual characteristics.
- All lumber in contact with concrete or masonry shall be pressure treated Douglas Fir. Whenever it is necessary to cut, notch, bore or splice pressure treated material, all newly cut surfaces shall be thoroughly painted with the same preservative.
- Maximum moisture content for all structural members shall not exceed 19%.
- All plywood sheathing shall be CDX grade (or better) Douglas Fir with exterior glue. All sheathing shall conform to the Governing Building Code and grade-marked by the American Plywood Association (APA). Panel index to be 40/20 for floors and 24/0 for roofs unless specifically noted otherwise on the plans and details.

ENGINEERED LUMBER

1. Glu-laminated Beams (GLB):

(a) shall have the following properties:

Use	EWS Combination Symbol	Species/Grade	Flexural Stress, F _b (ksi)	Modulus of Elasticity, E (ksi)	Horiz. Shear Stress, F _v (psi)	Comp. Stress, F _c para. (ksi)	Comp. Stress, F _c perp. (ksi)
Simple Span Bm	24F-V4	DF	+2,400/-1,850	1,800	265	1,650	650
Continuous or Cantilever Bm	24F-V8	DF	+/- 2,400	1,800	265	1,650	650
Columns	2	DF L/2	+/- 1,800	1,300	265	1,600	560

- shall not be notched, cut or drilled without prior approval from the Engineer
 - shall have exterior glue and weather-treatment prior to installation
 - shall be fabricated by an approved manufacturer & in accordance with ANSI A 190.1
 - shall have the factory standard, camber of 3,500-5,000 ft on beams UNO per Plan
- Laminated Veneer Lumber (VLV):
 - shall be 1-3/4" minimum thickness with the following minimum properties:
 - E = 2000 ksi
 - F_b = 2600 psi
 - F_v = 285 psi
 - F_c (parallel) = 2500 psi
 - F_c (perp.) = 750 psi
 - F_t (parallel) = 1500 psi
 - Specific Gravity = 0.50
 - shall be fabricated by an approved manufacturer
 - shall bear a minimum of 3-1/2" on specified supports. Provide full depth solid blocking at all bearing points
 - shall be nailed in accordance with mfg's specifications. Unless otherwise approved, nailing into the top edge shall not be spaced any closer than:
 - 16d @ 6" oc, 10d @ 4" oc, and 8d @ 3" oc
 - When nailing must be reduced, stagger rows a minimum of 1/2" apart while maintaining proper edge distances.
 - shall be, when comprised of multiple members, connected with 16d nail, 1/2" bolts or 1/4" lag screws in accordance with manufacturer's specifications.
 - shall not be cut, notched or drilled without specific written approval of the EOR.
 - Laminated Strand Lumber (LSL):
 - shall be 1-1/4" minimum thickness with the following minimum properties:
 - E = 1550 ksi
 - F_b = 2325 psi
 - F_v = 310 psi
 - F_c (parallel) = 2500 psi
 - F_c (perp.) = 800 psi
 - F_t (parallel) = 1070 psi
 - Specific Gravity = 0.50
 - shall be fabricated by an approved manufacturer
 - shall bear a minimum of 3-1/2" on specified supports. Provide full depth solid blocking at all bearing points
 - shall be nailed in accordance with mfg's specifications. Unless otherwise approved, nailing into the top edge shall not be spaced any closer than:
 - 16d @ 6" oc, 10d @ 4" oc, and 8d @ 3" oc
 - When nailing must be reduced, stagger rows a minimum of 1/2" apart while maintaining proper edge distances.
 - shall be, when comprised of multiple members, connected with 16d nail, 1/2" bolts or 1/4" lag screws in accordance with manufacturer's specifications.
 - shall not be cut, notched or drilled without specific written approval of the EOR.
 - Parallel Strand Lumber (PSL):
 - shall be 2-1/2" minimum thickness with the following minimum properties:
 - E = 2200 ksi
 - F_b = 2900 psi
 - F_v = 290 psi
 - F_c (parallel) = 2900 psi
 - F_c (perp.) = 750 psi
 - F_t (parallel) = 2025 psi
 - Specific Gravity = 0.50
 - shall be fabricated by an approved manufacturer
 - shall bear a minimum of 3-1/2" on specified supports. Provide full depth solid blocking at all bearing points
 - shall be nailed in accordance with manufacturer's specifications. Unless otherwise approved, nailing into the top edge shall not be spaced any closer than:
 - Narrow face: 16d @ 6" oc, 10d @ 4" oc, and 8d @ 3" oc
 - Wide Face: 16d @ 8" oc, and 10d & 8d @ 6" oc
 - When nailing must be reduced, stagger rows a minimum of 1/2" apart while maintaining proper edge distances
 - shall not be cut, notched or drilled without specific written approval of the EOR.
 - Plywood L Joists:
 - Use of a manufacturer shall be clearly noted on the plans. Substitutions shall not be permitted without prior approval of the Engineer.
 - shall be installed in accordance with applicable code approvals and mfg's spec's.
 - shall bear a minimum of 1-3/4" at all end supports, and 3-1/2" at intermediate supports. Provide full depth solid blocking at all bearing points.
 - shall be installed with intermediate blocking or bridging as specified by the Mfr. Only omit intermediate blocking when specifically allowed by the Mfr.
 - shall not be cut, notched or drilled without specific written approval of the EOR.
- #### FASTENERS
- Nails:
 - shall be with "common" nails unless noted otherwise.
 - shall not be driven closer than 1/2 their length nor closer than 1/4 of their length to the edge or end of a member, except for sheathing.
 - shall be installed in pre-drilled lead holes if necessary to avoid splitting.
 - shall be hot-dipped zinc-coated galvanized steel, stainless steel, silicon bronze, or copper when in contact with preservative-treated wood.
 - When used in exterior applications, nails shall have coating types and weights in accordance with the treated wood or bolt manufacturer's Recs. A Min. of ASTM A653, type G185 zinc-coated galvanized steel (or equal) shall be used.
 - When used in an interior, dry environment in SBX/DOT or zinc borate preservative-treated wood, plain carbon nails shall be permitted.
 - All nailing shall conform to the Governing Building Code, Table 2304.10.2.
 - Lag screws:
 - shall be installed into pre-drilled lead holes. Lubricant (or soap) shall be used to facilitate installation and prevent damage to the screws.
 - shall be hot-dipped zinc-coated galvanized steel or stainless steel when in contact with preservative-treated wood.
 - When used in exterior applications, bolts shall have coating types and weights in accordance with the treated wood or bolt manufacturer's rec's. A minimum of ASTM A653, type G185 zinc-coated galvanized steel (or equal) shall be used.
 - When used in dry interior environments in SBX/DOT or zinc borate preservative-treated wood, plain carbon screws, nuts, and washers shall be permitted.
 - Bolts:
 - shall conform to ASTM A307, UNO specifically on plans and details.
 - shall be installed in pre-drilled holes a max of 1/16" larger than the specified bolt dia.
 - when installed against wood surfaces, shall have standard washers under the heads and nuts.
 - shall be hot-dipped zinc-coated galvanized steel or stainless steel when in contact with preservative-treated wood.
 - When used in exterior applications, bolts shall have coating types and weights in accordance with the treated wood or bolt manufacturer's rec's. A minimum of ASTM A653, type G185 zinc-coated galvanized steel (or equal) shall be used.
 - When used in dry interior environments in SBX/DOT or zinc borate preservative-treated wood, plain carbon screws, nuts, and washers shall be permitted.
 - shall be placed a maximum of 12" from wall corners, wall ends, and sill plate splices (but not less than 7 dia.) , and a min. of two bolts per piece of sill plate is required.
 - shall be secured in place prior to foundation inspection.
 - Powder Actuated Shot Pins:
 - shall be installed at all interior non-bearing, non-shearwalls.
 - shall be 0.145x3" with 1.5" diameter steel washers.
 - shall not be spaced greater than 32" o.c.



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Engineer of Record:



7211 View
7211 View Avenue
EI Cerrito, CA 94530

Revision:

△	Permit Set	2 August 2023
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Proj. Engr.: M. Occiano Phone Ext.: 124

Proj. Mngr.: V. Ramos Phone Ext.: 128

Date: 2 August 2023 Scale: 1/4"=1'-0"

A&V Job No.: 230215

STRUCTURAL
SPECIFICATIONS &
SPECIAL
INSPECTIONS

S-1.2

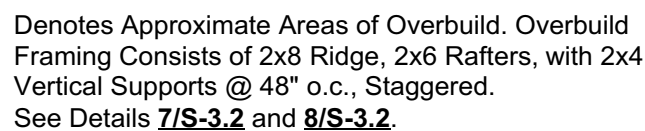
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(N) Beams (per Call-out)

(E) Beams (to Remain)

← Pre-Fabricated Roof Trusses (by Others) @ 24" oc →
All Truss to Truss Hangers per Mfr., Typ. (UNO)

← (N) Roof Joists -- 2x6 D.F. #2 per Plan →
in Simpson LUS Hangers (1 INQ)

Waterproofing, flashing, & finish details per Architecturals.

All dimensions per Architectural plans
Contractor to VERIFY all dimensions w/ Architectural plans

PRIOR to commencement of construction.

Contractor shall verify all existing conditions prior to construction & contact Engineer and Architect regarding any discrepancies.

Stud wall locations per Architecturals.

(E) Wood-Framed Wall to be Removed

(E) Wood-Framed Wall to Remain

(N) Wood-Framed Wall

Wall Thickness per Arch.
Min. 2x4 D.F. Stud @ 16" o.c.

1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Arar and Collins (1971).

All Walls to have Continuous Double Top Plates, All Splices to be per Detail 7/S-1.1

TYPE	HOLD DOWN ¹	MIN. POST	ANCHOR /	DETAILS
------	------------------------	-----------	----------	---------

TABLE	ROBUSTNESS	MIN. T. COV.	EMBEDMENT	DETAILS
1	HDU4	(2) 2x	SSTB24 / 21" Min.	(N) Fig. 8/S-3.1
2	HDU8	4x	SSTB28L / 25" Min.	(E) Fig. 9/S-3.1
3	HDU11	6x6 or 4x8	SB1x30 / 24" Min.	
4	HDU14	6x6 or 4x8	SB1x30 / 24" Min.	
5	HD19	6x6 or 4x8	PAB10 x 36" / 30" Min.	

FOOTNOTES:

1. Shared holdowns to be installed per detail 10/S-1.1, *Typical Shearwall Intersections*, (UNO)

DESCRIPTION					NAILING ¹		TRANSFERS ²					
NO.	MATERIALS	DBL. SIZED	SILL PLATE	PANEL BDRY	SIZE	SPC'G	5/8"Ø3 AB	SDS ⁴ Screw	SDWS ⁵ Screw	A35, LTP4 5,7,8 or LTP5	RBC	16d
6	15/32" Struc. 1 Ply.	N	2x	2x	10d	6"	48"	9"	12"	16"	12"	4"
4	15/32" Struc. 1 Ply.	N	2x	3x	10d	4"	35"	6"	8"	11"	8"	3"
3	15/32" Struc. 1 Ply.	N	2x	3x	10d	3"	26"	5" ¹⁰	6" ¹⁰	8"	6"	-
2	15/32" Struc. 1 Ply.	N	2x	3x	10d	2"	20"	4" ¹⁰	4" ¹⁰	6"	5"	-
44	15/32" Struc. 1 Ply.	Y	3x	3x	10d	4"	22"	3" ¹⁰	4" ¹⁰	5"	-	-
33	15/32" Struc. 1 Ply.	Y	3x	3x	10d	3"	17"	2" ^{10,11}	3" ^{10,11}	4" ¹²	-	-
22	15/32" Struc. 1 Ply.	Y	3x	3x	10d	2"	13"	2" ^{10,11}	2" ^{10,11}	3" ¹²	-	-

FOOTNOTES:

1. All nails to be COMMONS. **DO NOT** use type nails. All "field" nailing to be 12" on. Penetration shall be 1-1/2" min. in framing.
2. All transfers to be installed into min. 1"x12" thick members. Unions where clips are spaced less than 6" oc, stagger clips on each side.
3. All shear walls to have 5/8" anchor bolts, embedded 7' into concrete foundations, with 3"x3"x0.229" thick plate washers. Minimum washers may be spotted (spotted not to exceed 1-3/4") w/ standard cut washer placed beneath plate and washers. Washers shall extend to the edge of the concrete foundation. If the concrete is not casted in one piece, the 5/8" plates, plate washers shall be alternated on each side of plate. [Governing Building Code, Section 2008.3.1] [AFPA SDPWS 4.3.6.4.3] Simpson SDS 1/4"x3" Screws through 2x sill, or SDS 1/4"x3" Screws through 3x sill or double plates. Install into minimum 1-3/4" thick concrete (see ECR 2236)
4. Simpson SDWS 0.225"x" Screws through 2x sill, or SDWS 0.228"x" Screws through 3x sill or double plates. Install into minimum 1-3/4" thick concrete (min anchor blocking). [ICC ECR AC208.3]
5. See details for permitted transfer clips types and locations.
6. Orient LTP4 and LTP5 clips such that the long dimension is horizontal.
7. Where LTP4 clips are installed over shear wall sheathing, fasten to the wall with full length 8d common nails.
8. Orient LTP4 and LTP5 clips such that the long dimension is vertical.
9. 16d common nails through the sill plate to min. member of blocking.
10. Install screws into 3-1/2" wide continuous member, staggered 1-1/2" apart.
11. Install solid sawn members (LVL, LSL, V-LVL or PSL) over 2x6 blocking.
12. Provide both A36 and LTP4 clips on opposite sides of shearwall in order to achieve net resisting capacity.

Revision:

[illegible]

Proj. Engr.: M. Occiano	Phone Ext.: 124
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Proj Mngr : V. Ramos Phone Ext : 128

Date: 2 August 2002	Scale: 1 (1"=11.0"
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A&V Job No.: 230215

ROOF FRAMING PLAN

S-2.2

DO NOT SCALE THESE DRAWINGS. Refer to Architectural plans for all dimensions.

17 NOT USED



19 NOT USED



** Embed Wall Footing into approved material per Soils Report.
Contact EOR if retained heights exceed those on this schedule.

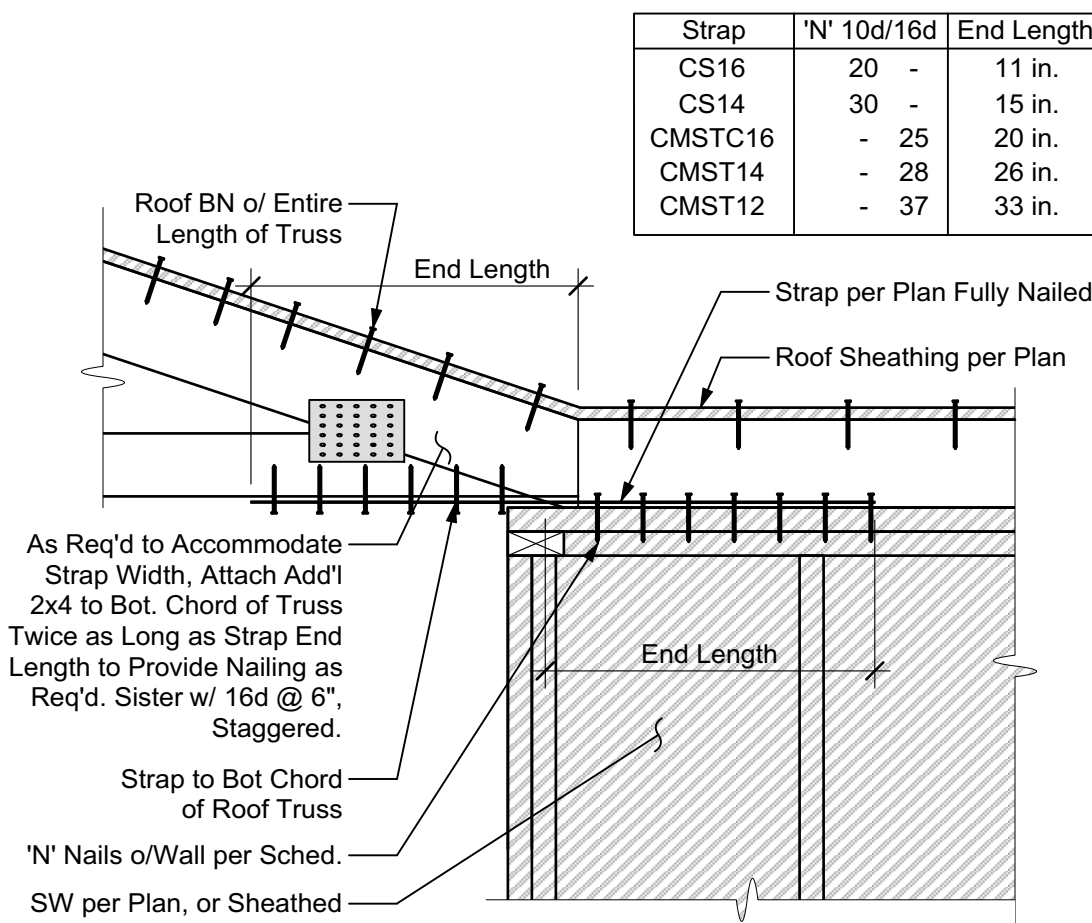


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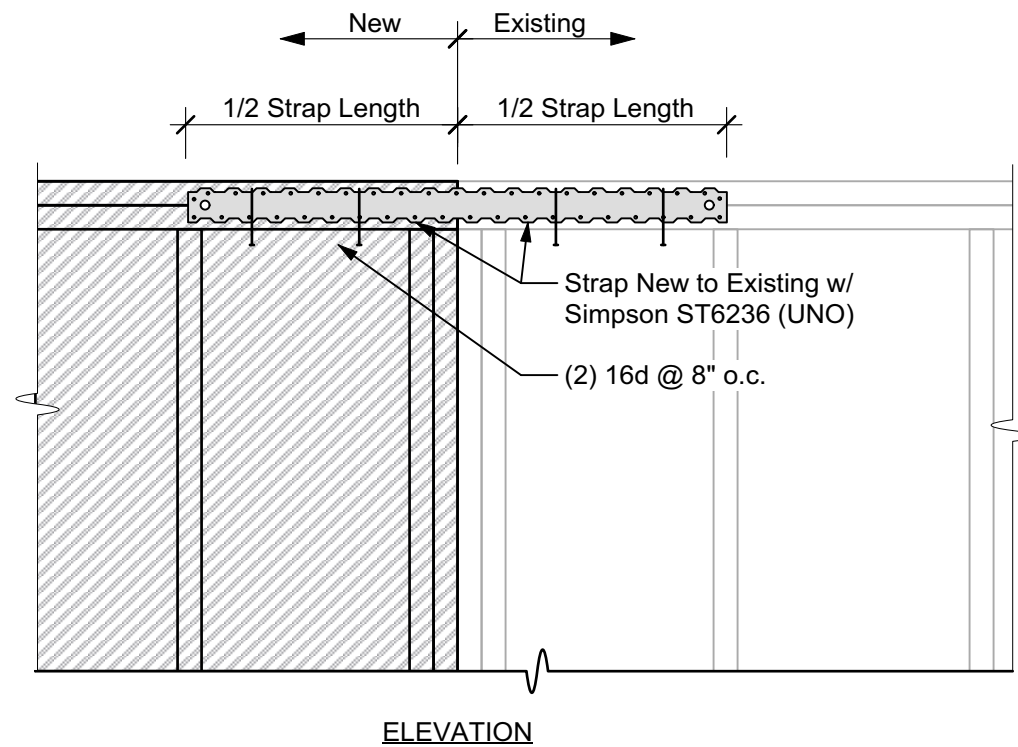
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13 NOT USED

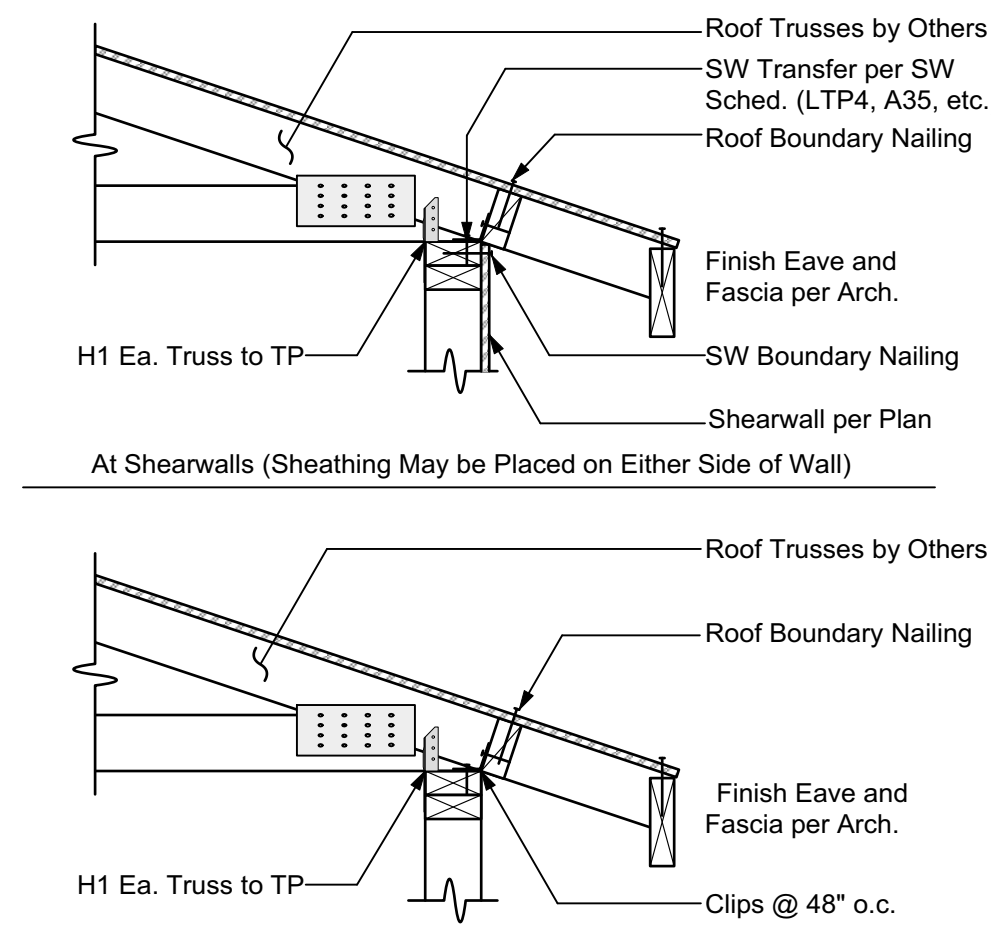
9 DRAG TO ROOF TRUSS



5 NEW WALL TO EXISTING WALL



1 SHEAR TRANSFER TO TRUSSES

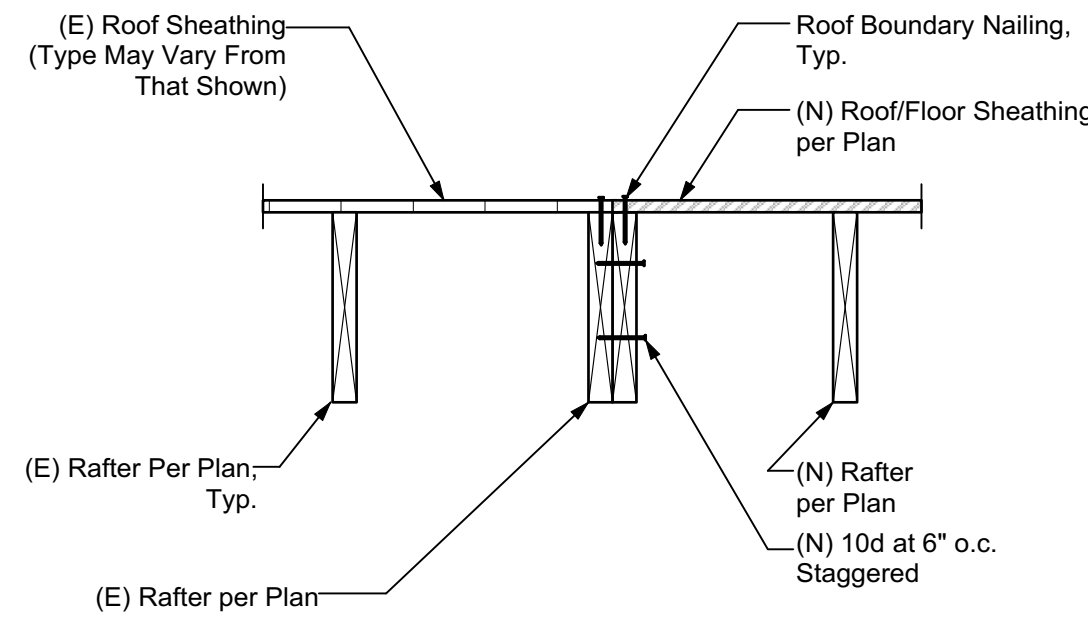


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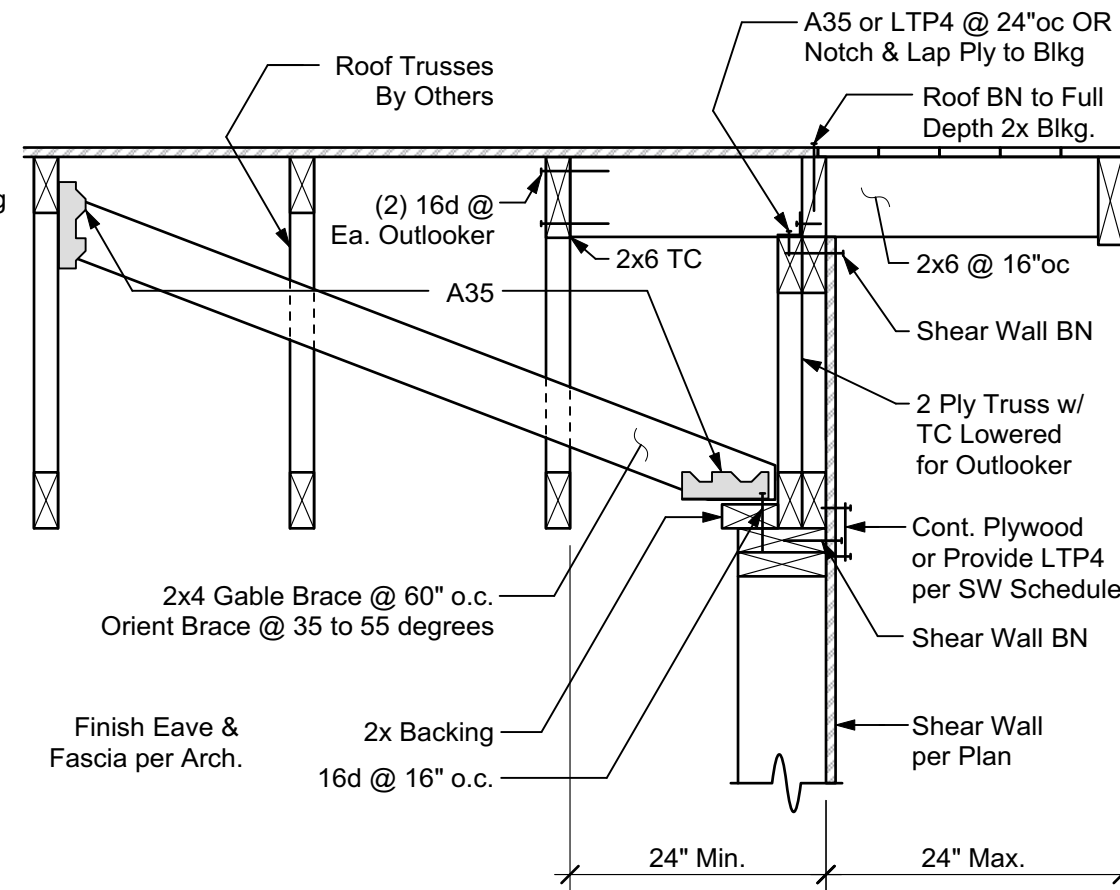
14 NOT USED

10 NOT USED

6 NEW FRAMING TO EXISTING



2 SHEARWALL AT GABLE END

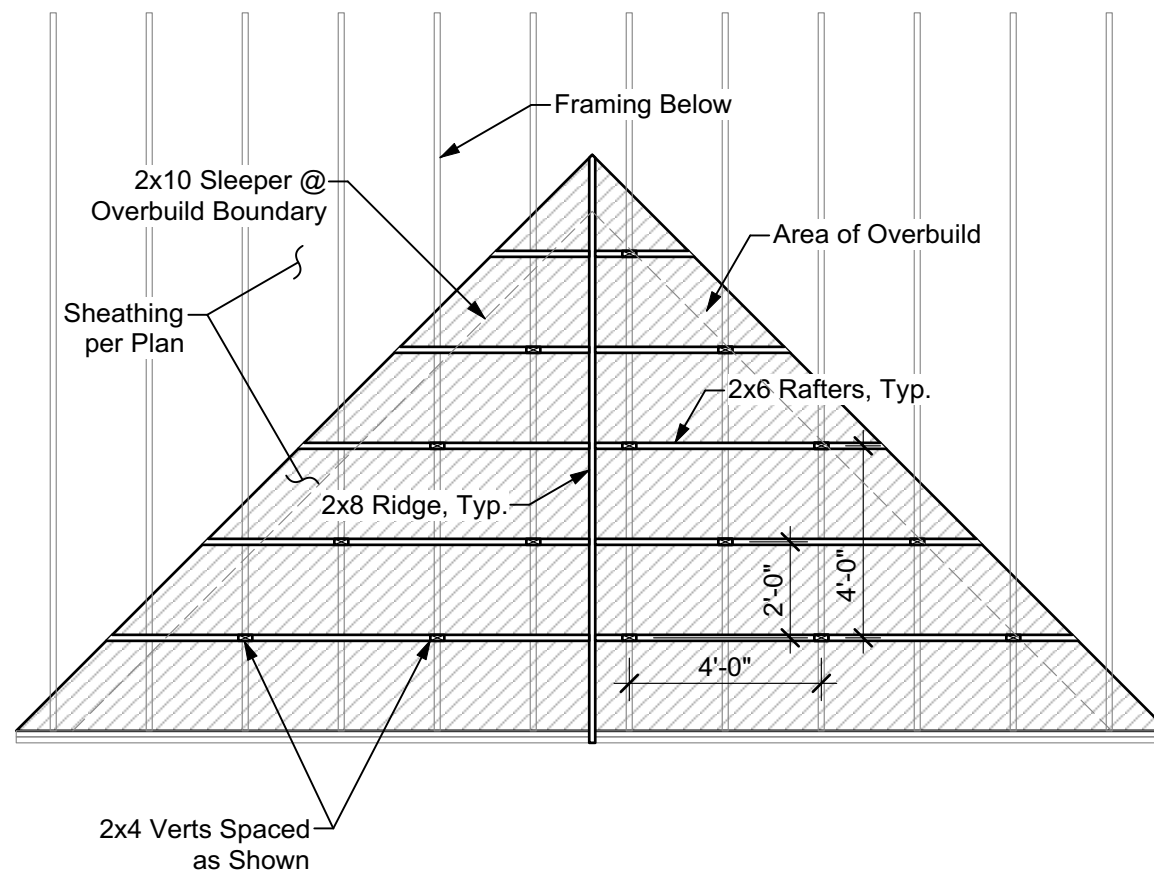


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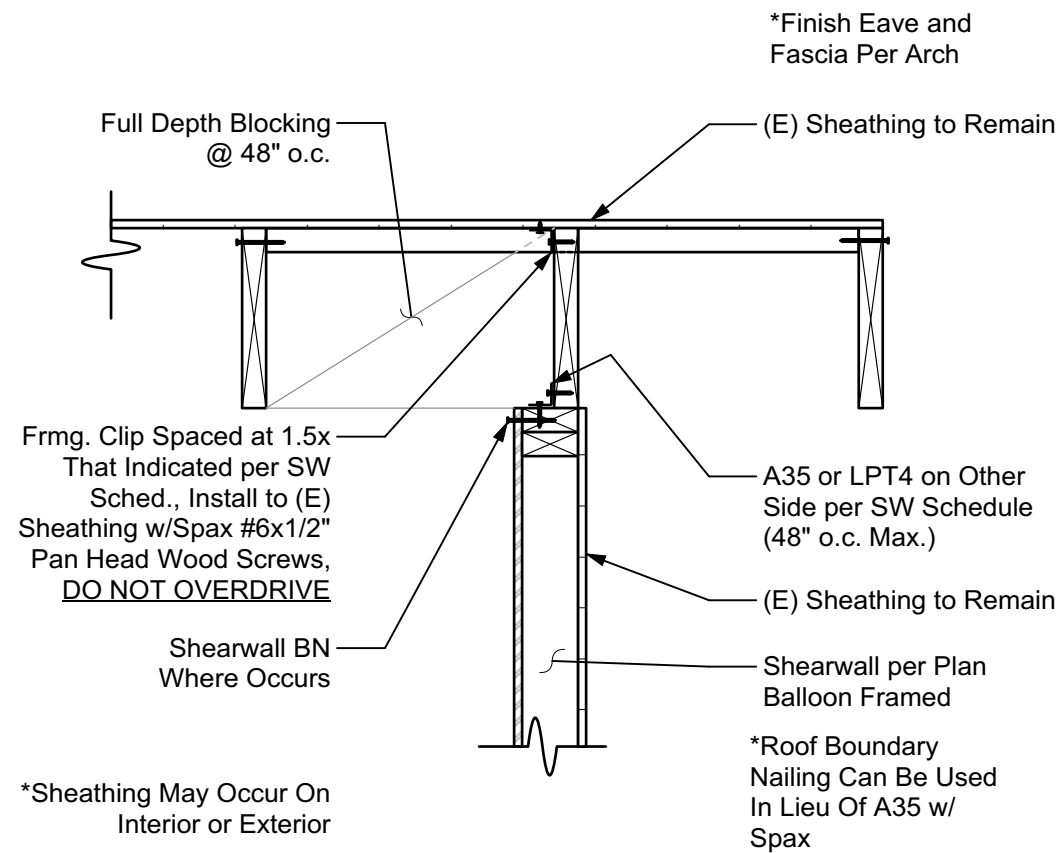
15 NOT USED

11 NOT USED

7 TYP. OVERBUILD FRAMING



3 SHEAR TRANSFER AT (E) GABLE END

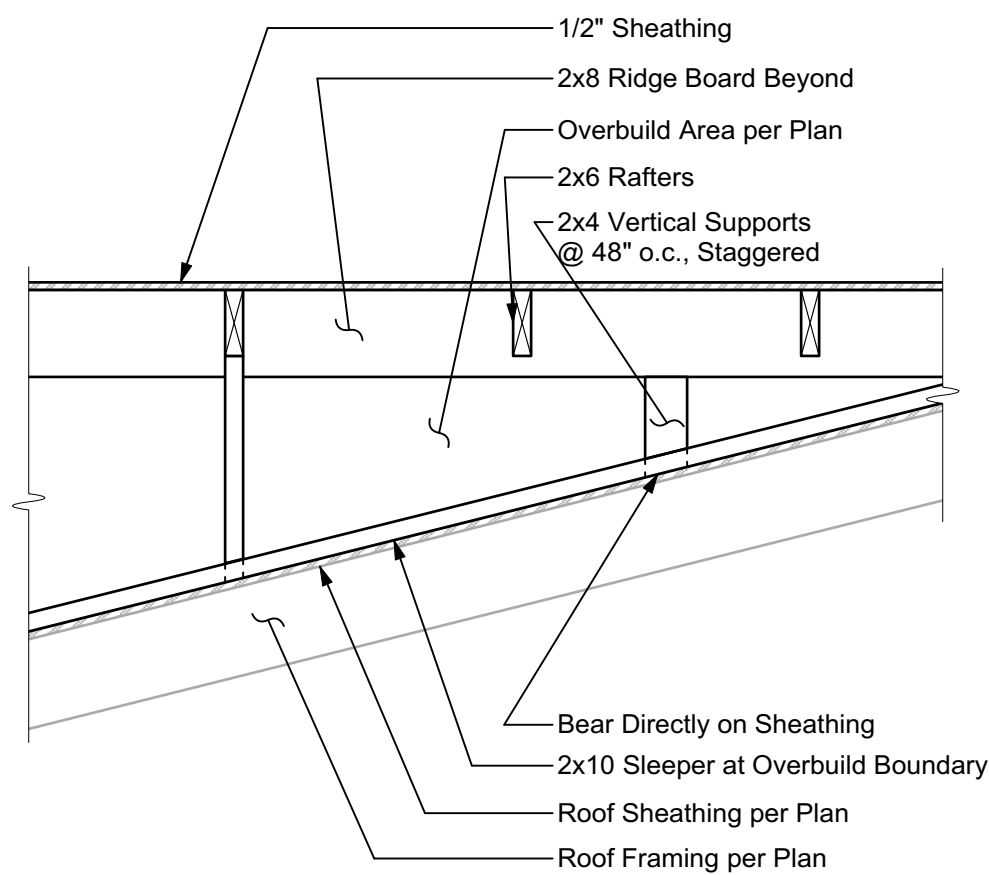


20 NOT USED

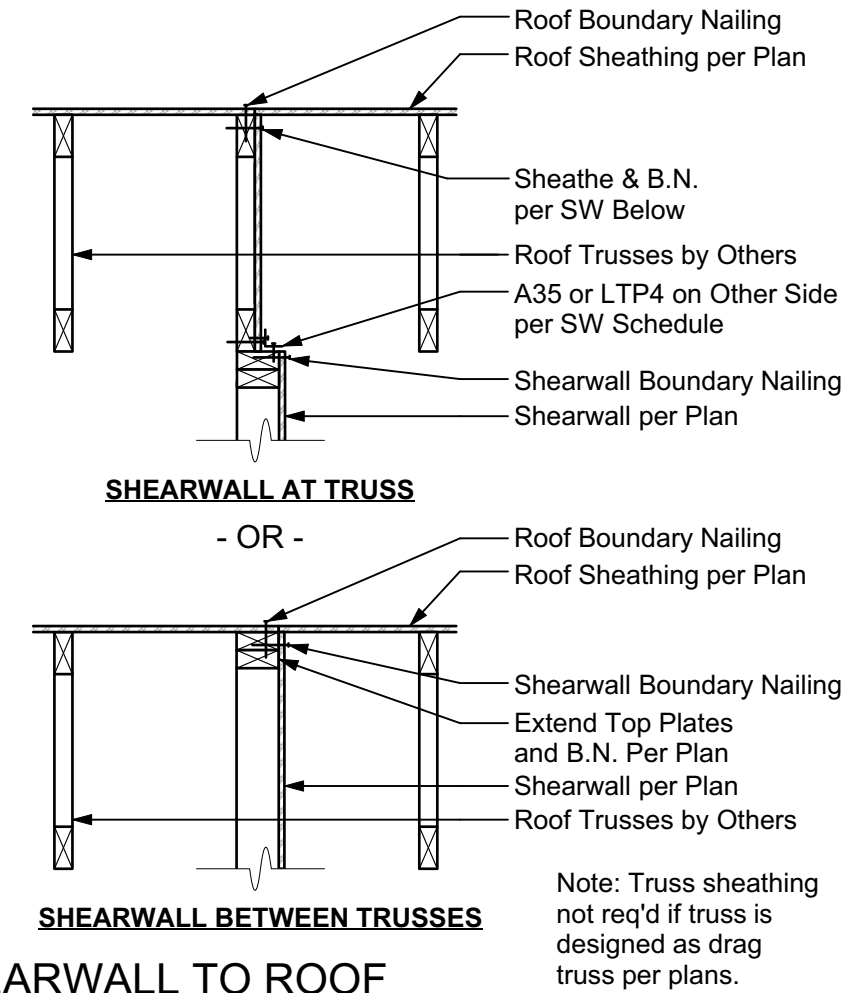
16 NOT USED

12 NOT USED

8 TYP. OVERBUILD FRAMING



4 SHEARWALL TO ROOF



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Proj. Mngr.: V. Ramos Phone Ext.: 128
Date: 2 August 2023 Scale: 1/4"=1'-0"
A&V Job No.: 230215

STRUCTURAL
DETAILS

S-3.2

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