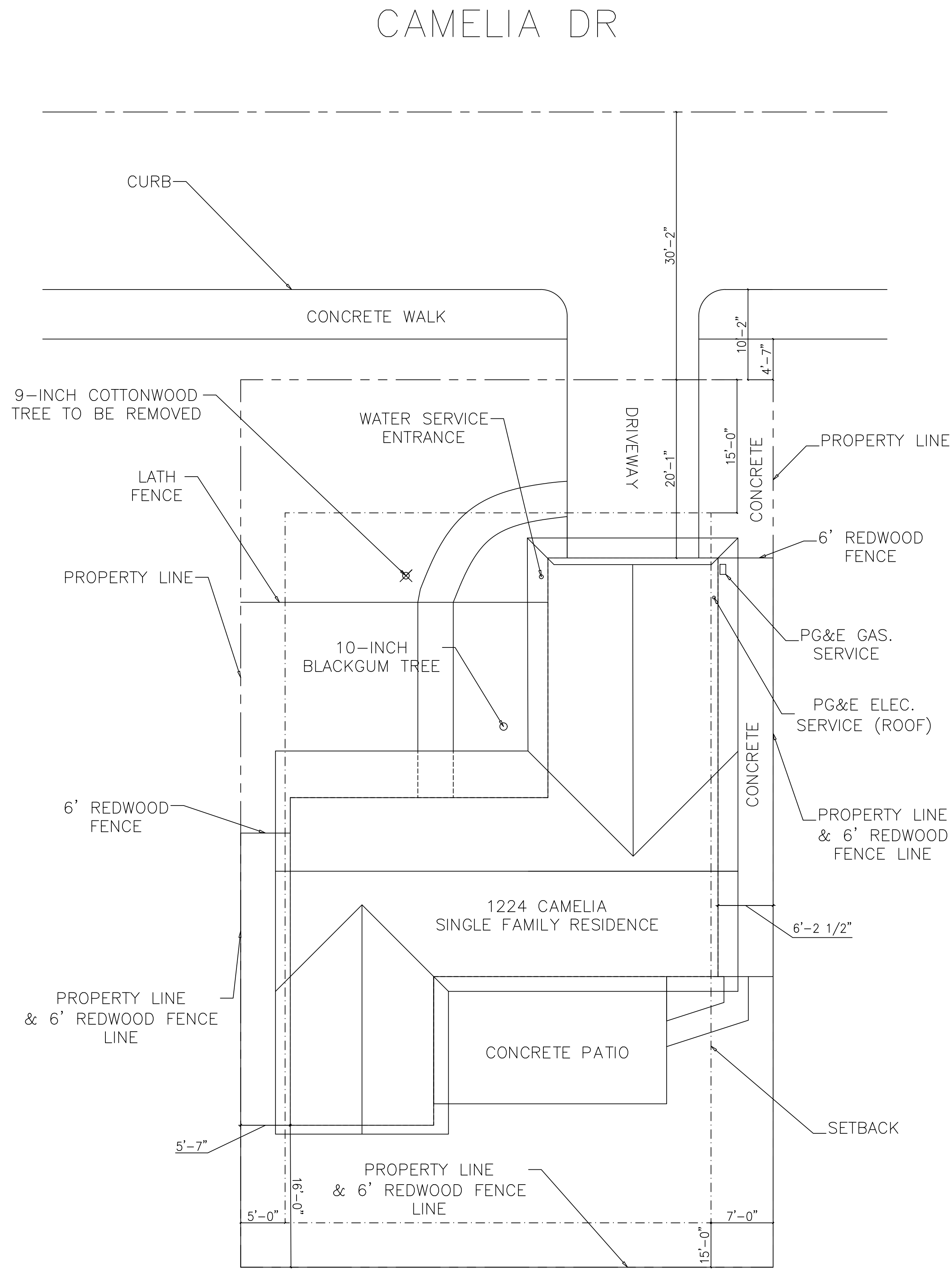
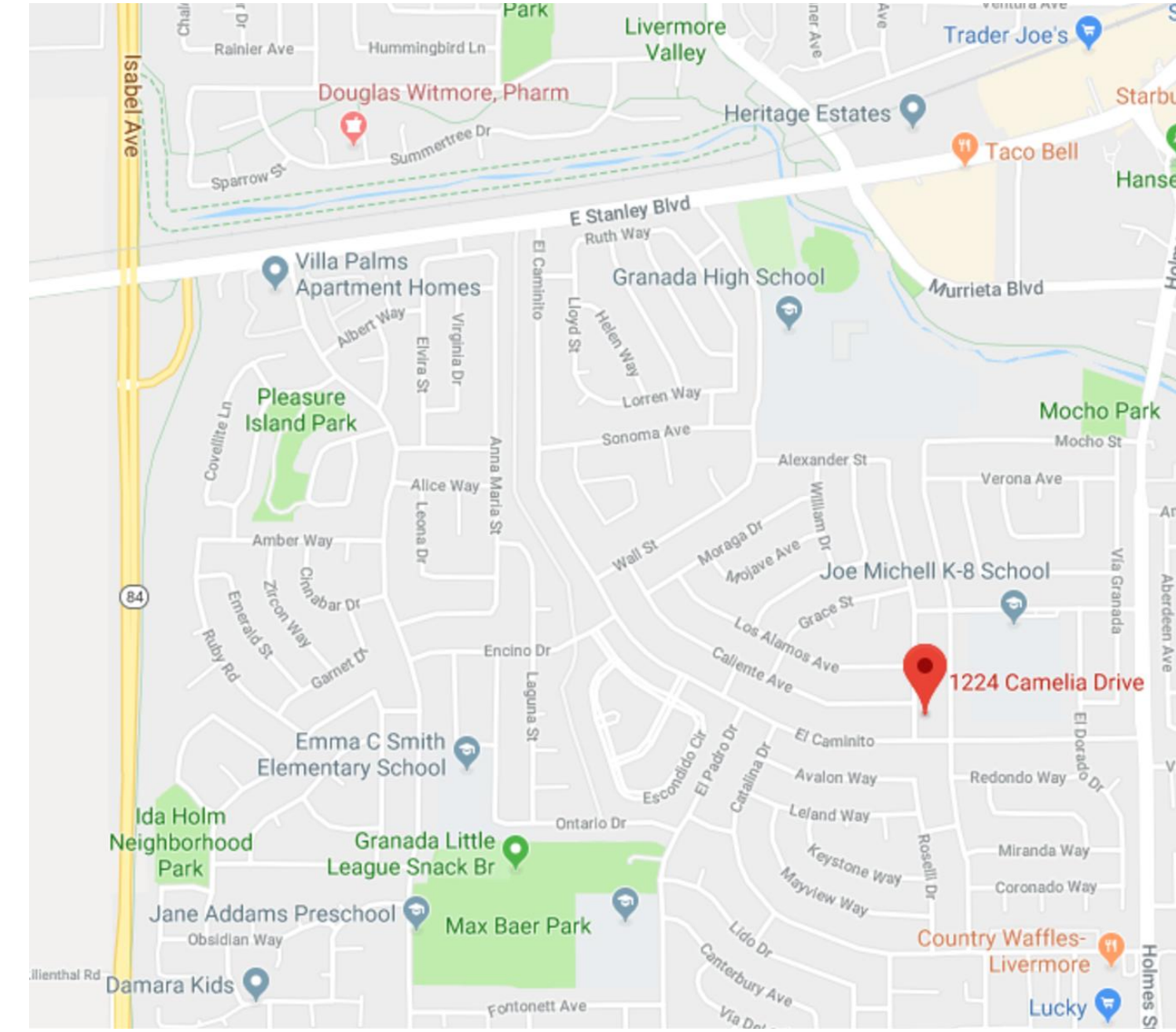


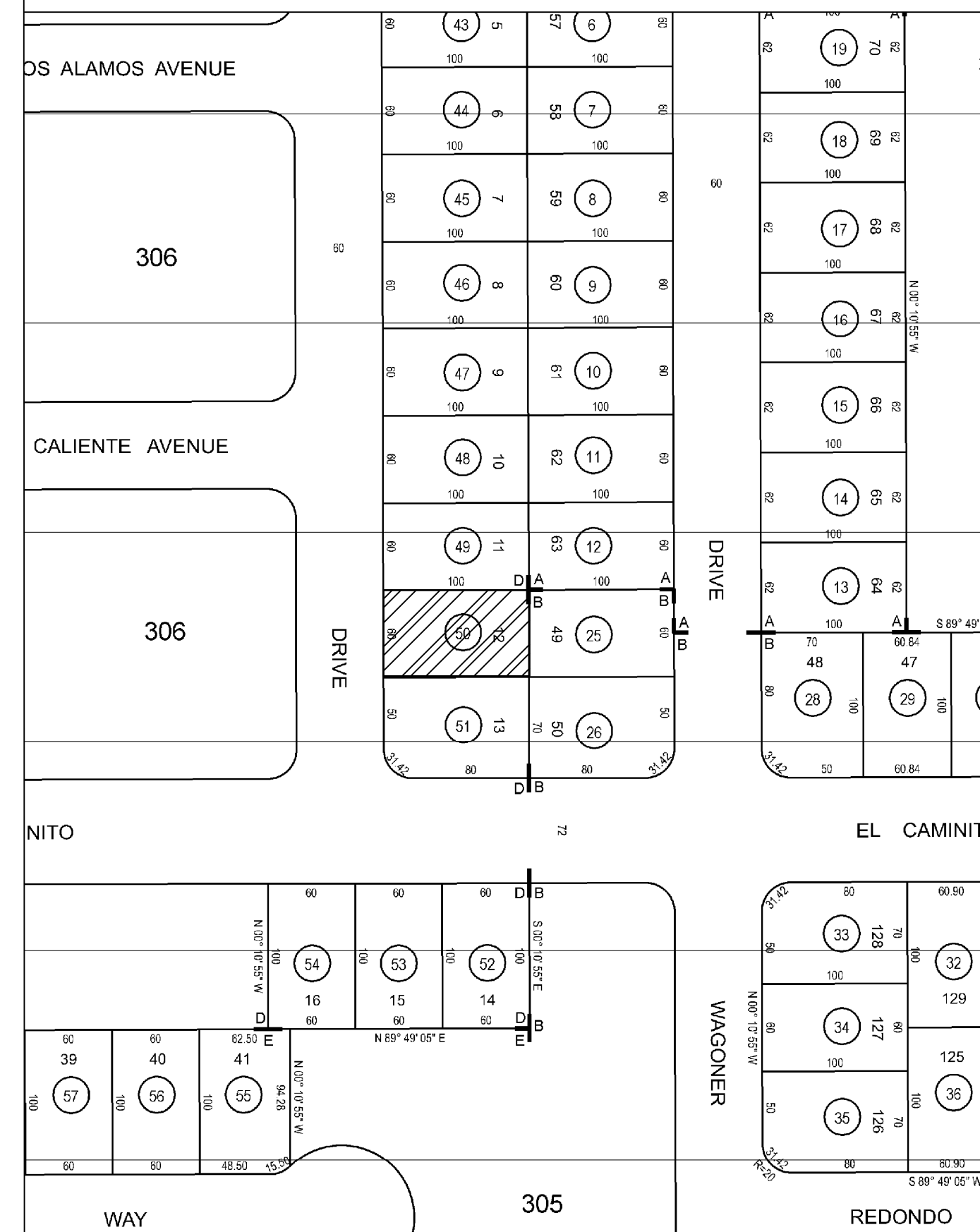
1224 CAMELIA DR, MASTER SUITE ADDITION



SITE PLAN
SCALE: 1/8"=1'-0"



VICINITY MAP



ASSESSORS PARCEL MAP

DESCRIPTION OF WORK:

PROPOSED NEW CONSTRUCTION OF A MASTER BEDROOM SUITE TO THE SOUTH-WEST CORNER OF THE EXISTING STRUCTURE @ 1224 CAMELIA DR.

SHEET INDEX:

A0.1	COVER, PROJECT DATA, SITE PLAN, INDEX
A0.2	CODE & CONSTRUCTION NOTES
G1.0	CAL GREEN REQUIREMENTS - PG 1
G1.1	CAL GREEN REQUIREMENTS - PG 2
A1.10	FLOOR PLANS
A1.12	DEMO PLAN
A1.13	FRAMING PLAN
A1.14	FOUNDATION PLAN & DETAILS
A1.15	BRACED WALL PLAN
A1.30	ROOF PLANS
A3.1	NORTH ELEVATIONS
A3.2	WEST ELEVATIONS
A3.3	SOUTH ELEVATIONS
A5.1	FRAMING NOTES & DETAILS
EMP1.0	DOOR & WINDOW SCHEDULES
T-24A	ELECTRICAL, PLUMBING & MECHANICAL PLANS
T-24B	TITLE 24 PAGE 1
	TITLE 24 PAGE 2

PROJECT DATA:

COUNTY: ALAMEDA
APN#: 099-304-050
YEAR BUILT: 1963
ZONING: RL
OCCUPANCY: R-3
TYPE OF CONSTRUCTION: V-B
SEISMIC CATEGORY "D"
SPRINKLERS: NO
STORIES: 1
BEDROOMS: (E) 3 (N) 4
BATHROOMS: (E) 2 (N) 3

(E) RESIDENCE: 1,289 SQ FT
RESIDENCE ADDITION: 358 SQ FT
(N) LIVING AREA: 1,647 SQ FT

(E) GARAGE: 432 SQ FT
GARAGE ADDITION: 0 SQ FT
(N) GARAGE AREA: 432 SQ FT

(E) BUILDING TOTAL S.F.: 1,721 SQ FT
(N) BUILDING TOTAL S.F.: 2,079 SQ FT
LOT SF: 6,000 SQ FT

DESIGN CRITERIA:

DESIGN LOADS PROVIDED BY THE CITY OF LIVERMORE:
WIND LOAD: EXPOSURE C - 85 MPH Voad 110 MPH Vuit
SEISMIC DESIGN CATEGORY: D
SOIL BEARING VALUE: 1,500 POUNDS PSF (+)
CLIMATE ZONE: 12

STRUCTURE DESIGNED PER CRC SECTION R301. WALL BRACING DETERMINED PER CRC SECTION R602.10. WALL LENGTH DETERMINED AS SPECIFIED USING THE GREATER VALUE DETERMINED FROM TABLE R602.10.3(1) OR R602.10.3(3) AND THE APPLICABLE ADJUSTMENT FACTORS IN TABLE R602.10.3(2) OR R602.10.3(4), RESPECTIVELY.

CALCULATED BRACED WALL LENGTH = 4'3" PER BRACED WALL LINE
REQUIRED TENSION LOAD FOR HOLD DOWNS PER CRC R602.10.6.1 = 1800 LB. TENSION LOAD FOR SPECIFIED SIMPSON STDH14 = 3065 LB

FOUNDATION DESIGNED PER CRC SECTION R402.2 & TABLE R403.1(1) FOR A 1 STORY STRUCTURE WITH A 20LB PER SQ FT LIVE LOAD ON SLAB ON GRADE. FOUNDATION REINFORCEMENT PER CRC SECTION R403.1.3.3 & R608.5.4.5.
SLAB DESIGN PER CRC R506

TRUSS DESIGN TO BE PROVIDED BY TRUSS MANUFACTURER VIA DEFERRED SUBMITTAL

Revision History

	AS-BUILT
	PRELIMINARY DESIGN
	DESIGN
	PERMIT SET
▲	PLAN REVIEW COMMENTS
▲	PLAN REVIEW COMMENTS

REMODEL & ADDITION

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Peter Christopher Klimen

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EMAIL:KLIMEN@ATT.NET DATE: 00/00/00

SITE DATA
SITE PLAN
SHEET INDEX

A0.1

ABBREVIATIONS

&	AND	F.B.	FLAT BAR	QT	QUARRY TILE
?	ANGLE	F.H.W.S.	FLAT HEAD WOOD SCREW		
@	AT	FL.	FLOOR	R.W.L.	RAIN WATER LEADER
?	CENTERLINE	F.D.	FLOOR DRAIN	R.W.	REDWOOD
?	DIAMETER	F.J.	FLOOR JOISTS	RQTR	REGISTER
(E)	EXISTING	FLUOR.	FLUORESCENT	REIN	REINFORCE
(N)	NEW	FT.	FOOT OR FEET	REF	REFERENCE
!	PERPENDICULAR	FTG.	FOOTING	REFG.	REFRIGERATOR
#	FOUND	FAU.	FORCED AIR UNIT	REQ.	REQUIRED
		FDN.	FOUNDATION	RESIL	RESILIENT
		FRAM'G	FRAMING	RESIL.	REDWOOD
ABV.	ABOVE	FLS/FS	FULL SIZE	REV	REVERSE
AB	ANCHOR BOLT	FURR.	FURRING	R.	RISER/ RADIUS
ACOUS.	ACOUSTICAL	FUT.	FUTURE	RM.	ROOM
A.D.	AREA DRAIN			R.O.	ROUGH OPENING
ADJ.	ADJUSTABLE	GALV.	GALVANIZED	S.N.D.	SANITARY NAPKIN
AFF	ABOVE FINISH FLOOR	G1.	GALVANIZED IRON	S.N.R.	SANITARY NAPKIN
AGOR	AGGREGATE	G.S.M.	GALVANIZED SHEET METAL		RECEPTACLE
AL./ALUM.	ALUMINUM	GA.	GAUGE	SCHED.	SCHEDULE
APPROX.	APPROXIMATE	GL.	GLASS	S.C.D.	SEAT COVER DISPENSER
ARCH.	ARCHITECT	G.B.	GRAB BAR	SECT.	SECTION
ARCH'L	ARCHITECTURAL	GR.	GRADE	S.C.E.D.	SEE CIVIL ENGINEER
ASPH.	ASPHALT	GND.	GROUND		DRAWINGS
AWG.	AWIRING	GFI.	GROUND FAULT INTERRUPTER	S.E.D.	SEE ELECTRICAL DRAWINGS
		GYP.	GYPSPUM	S.L.D.	SEE LANDSCAPE DRAWINGS
BM.	BEAM	GYP.BD.	GYPSPUM BOARD	S.M.D.	SEE MECHANICAL DRAWINGS
BITUM.	BITUMINOUS			S.P.D.	SEE PLUMBING DRAWINGS
BLK.	BLOCK			S.S.D.	SEE STRUCTURAL DRAWINGS
BLKG.	BLOCKING	H/C	HANDICAP	S.S.X.	SERVICE SINK
BD.	BOARD	H.D.C.P.	HANDICAP/HANDICAPPED	SHT.	SHEET
BLT.	BOLT	HDWE.	HARDWARE	SHR.	SHOWER
BOT.	BOTTOM	HDWD.	HARDWOOD	SH	SIMILAR
BLDG.	BUILDING	HGT./HT.	HEIGHT	SH	SINGLE HUNG/SHELF
		H.C.	HOLLOW CORE	S.	SINK
CAB.	CABINET	H.M.	HOLLOW METAL	SKYLT	SKYLIGHT
C.O.	CASED OPENING	HORIZ.	HORIZONTAL	SL.	SLIDING/ SLOPE
C.B.	CATCH BASIN	H.B.	HOSE BIB	S.D.	SMOKE DETECTOR
CPT	CARPET	H.P.	HIGH POINT	S.S.	SOAP DISPENSER
CAS	CASEMENT	H.R.	HOOR	S.	SOUTH
CHLK.	CHAIN LINK	H.V.A.C.	HEATING, VENTING & AIR CONDITIONING	SP	SPACE
C.I.	CAST IRON			SPEC.	SPECIFICATION
CLKG.	CEILING			SQ.FT.	SQUARE FOOT
C.J.	CEILING JOISTS	I.D.	INSIDE DIAMETER	SQ.IN.	SQUARE INCH
CLG.	CEILING	INSUL.	INSULATION	SST	STAINLESS STEEL
CEM.	CEMENT	INT.	INTERIOR	STD.	STANDARD
CTR.	CENTER	I.C.B.O.	INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS	STL.	STEEL
CER.	CERAMIC			STOR.	STORAGE
C.T.	CLEAR	JAN.	JANITOR	STR.	STRUCTURAL
CLR.	CLEAR	JT.	JOINT	STRUCT	STRUCTURE
CLO.	CLOSET	K.D.	KILN DRIED	SUSP.	SUSPENDED
CMU	CONCRETE MASONRY UNIT	KIT.	KITCHEN	SYMM.	SYMMETRICAL
COL.	COLUMN			TEL.	TELEPHONE
CONC./C.	CONCRETE	LAB	LABORATORY	T.V.	TELEVISION
CONN.	CONNECTION	LAM	LAMINATE	TEMP.	TEMPERED/TEMPORARY
CONST.	CONSTRUCTION	LAV.	LAVATORY	TERR.	TERRAZZO
CONT.	CONTINUOUS	L.T.	LIGHT	THK./TK	THICK
CORR.	CORRIDOR	LKR.	LOCKER	TILE	TILE
CG	CORNER GAURD			T.P.D.	TOILET PAPER DISPENSER
CTSK	COUNTERSINK			T.G.	TONGUE AND GROOVE
		MB	MACHINE BOLT	T.O.C.	TOP OF CURB
DEPT.	DEPARTMENT	MFR.	MANUFACTURER	T.O.P.	TOP OF PAVEMENT
DET.	DETAIL	MFG	MANUFACTURING	T.O.S.	TOP OF SUBFLOOR/SLAB
D.F.	DOUGLAS FIR	MFX.	MAXIMUM	T.O.SHTG.	TOP OF SHEATHING
D.F.F.	DRINKING FOUNTAIN	MEMB.	MEMBRANE	T.O.P.	TOP OF PLATE
DIA.	DIAMETER	MET.	METAL	T.O.W.	TOP OF WALL/WINDOW
DIM.	DIMENSION	MH.	MAN HOLE	T.B.	TOWEL BAR
DISP.	DISPENSER	MIN.	MINIMUM	TRD.	TREAD
DOR.	DOOR	MIR.	MIRROR	TYP.	TYPICAL
D.O.	DOOR OPENING	MISC.	MISCELLANEOUS		
DBL.	DOUBLE	M.O.	MASONRY OPENING	U.L.	UNDERWRITERS LABORATORY
DH.	DOUBLE HUNG	MTD.	MOUNTED	UNF.	UNFINISHED
DN.	DOWN	MUL.	MULLION	UBC	UNIFORM BUILDING CODE W/ CALIFORNIA AMENDMENTS
DS.	DOWN SPOUT			U.O.N.	UNLESS OTHERWISE NOTED
D.S.P.	DRY STAND PIPE	N.	NORTH	UR.	URINAL
DWR.	DRAWER	NOM.	NOMINAL		
DWG'S	DRAWINGS	N.I.C.	NOT IN CONTRACT		
		N.T.S.	NOT TO SCALE		
		NO or #	NUMBER		
E.	EAST	OBS.	OBSOLETE		
EA.	EACH	O.F.E.	OWNER FURNISHED EQUIPMENT		
E.I.F.S.	EXTERIOR INSULATED FINISH SYSTEM	OFF.	OFFICE	V.I.F.	VERIFY IN FIELD
		O.C.	ON CENTER	VERT.	VERTICAL
E.J.	EXPANSION JOINT	OPNG.	OPENING	V.G.	VERTICAL GRAIN
ELEC.	ELECTRICAL	OPP.	OPPOSITE	VEST.	VESTIBULE
EP.	ELECTRICAL PANELBOARD	O.H.	OPPOSITE HAND	VNL./V	VINYL
EL/ELEV	ELEVATION	O.D.	OUTSIDE DIAMETER (Dig)	VCT	VINYL COMPOSITION TILE
ELEV	ELEVATOR	O/O	OVER		
EMER.	EMERGENCY	O.A.	OVERALL	W.	WEST/WAX
ENCL.	ENCLOSURE	OH.	OVER HANG/OVERHEAD	W.SCT	WAINSCOT
EQ.	EQUAL			W.C.	WATER CLOSET
EQUIPT.	EQUIPMENT	PR	PAIR	WH.	WATER HEATER
E.W.C.	ELECTRICAL WATER COOLER	PTD	PAINTED	WP	WATERPROOF
EXST.	EXISTING	PNL	PANEL	WT.	WEIGHT
EXP.	EXPANSION	P.T.D.	PAPER TOWEL DISPENSER	W/	WITH
EXPO.	EXPOSED	P.T.D/R	PAPER TOWEL DISPENSER AND RECEPTACLE COMBO	W/O.	WITHOUT
EXT.	EXTERIOR			WD.	WOOD
		PTR.	PAPER TOWEL RECEPTACLE		
F.C.	FACE OF CONCRETE	PTN.	PARTITION		
F.B.	FACE OF CONCRETE BLOCK	P.D.	PLANTER DRAIN		
F.O.M.	FACE OF MULLION	PLAS.	PLASTER		
F.D.	FLOOR DRAIN	P.LAM.	PLASTIC LAMINATE		
F.O.F.	FACE OF FINISH	PL.	PLATE		
F.O.S.	FACE OF STUDS	PLUMB	PLUMBING		
F.F.	FALSE FRONT/FINISH FLOOR	PLYWD/PLY	PLYWOOD		
FINISH	FINISH	PT.	POINT/PRESSURE TREATED		
FG	FINISH GRADE	P.P.	POURED IN PLACE		
F.A.	FIRE ALARM	P.PREFAB	PREFABRICATED		
F.E.	FIRE EXTINGUISHER	P/L.	PROPERTY LINE		
F.E.C.	FIRE EXTINGUISHER CAB.	PRCST.	PRE-CAST		
F.H.C.	FIRE HOSE CABINET				
FFRF.	FIREPROOF				
FIX.	FIXED				
FLASH.	FLASHING				

ALL CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE FOLLOWING CODES AND STANDARDS:
 CALIFORNIA BUILDING CODE, 2016 EDITION
 CALIFORNIA RESIDENTIAL CODE, 2016 EDITION
 CALIFORNIA PLUMBING CODE, 2016 EDITION
 CALIFORNIA MECHANICAL CODE, 2016 EDITION
 CALIFORNIA ELECTRICAL CODE, 2016 EDITION
 2016 CALIFORNIA REFERENCED STANDARDS CODE
 2016 CALIFORNIA ENERGY CODE
 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE
 CITY OF LIVERMORE MUNICIPAL CODE
 COUNTY OF ALAMEDA CODES AND ORDINANCES

ALL TRADES MUST FOLLOW MANDATORY CAL GREEN REQUIREMENTS AS DETAILED IN THE FOLLOWING "G" SHEETS - NO EXCEPTIONS OR EXCLUSIONS ACCEPTED

GENERAL NOTES:

- THESE PLANS ARE FOR GENERAL CONSTRUCTION PURPOSES ONLY. THEY ARE NOT EXHAUSTIVELY DETAILED NOR FULLY SPECIFIED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY DIMENSIONS, CONDITIONS, MATERIALS, EQUIPMENT, SELECTIONS, AND TITLE 24 COMPLIANCE.
- THE CONTRACTOR SHALL VERIFY ALL SITE GRADES, EXISTING IMPROVEMENTS, PROPERTY LINES, EASEMENTS, SETBACKS, AND UTILITIES, AND REPORT WHERE DISCREPANCIES OCCUR.
- DO NOT SCALE THE DRAWINGS. DIMENSIONS ARE TO FACE OF FRAMING AND ACTUAL DOOR OPENING WIDTH UNLESS OTHERWISE NOTED (U.O.N.). ALL DIMENSIONS NOTED "CLR" OR "CLR" ARE FOR EQUIPMENT CLEARANCES AND MUST BE STRICTLY MAINTAINED. ALL DIMENSIONS NOTED "VERIFY" OR V. I. F. ARE TO BE CHECKED BY CONTRACTOR PRIOR TO AND DURING CONSTRUCTION. DIMENSIONS TAKE PRECEDENCE OVER SCALE OF THE DRAWING; DO NOT SCALE DRAWINGS.
- MANUFACTURER'S MATERIALS, EQUIPMENT, ETC., SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS (U.O.N.). THE CONTRACTOR ACKNOWLEDGES THAT THE DRAFTER SHALL NOT SUPERVISE, DIRECT, OR HAVE CONTROL OVER THE WORK NOR SHALL THE DRAFTER HAVE ANY RESPONSIBILITY FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES SELECTED BY THE CONTRACTOR NOR THE CONTRACTOR'S SAFETY PRECAUTIONS OR PROGRAMS IN CONNECTION WITH THE WORK. THESE RIGHTS AND RESPONSIBILITIES ARE SOLELY THOSE OF THE CONTRACTOR IN ACCORDANCE WITH THESE CONTRACT DOCUMENTS.
- INSTALLATION INSTRUCTIONS FOR ALL LISTED EQUIPMENT SHALL BE PROVIDED TO THE FIELD INSPECTOR AT TIME OF INSPECTION.
- EXTERIOR WINDOWS AND DOORS SHALL MEET THE DESIGN PRESSURE RATING REQUIREMENTS OF CBC §1714.5.
- DOORS AND WINDOWS TO THE EXTERIOR SHALL BE FULLY WEATHER STRIPPED.
- LANDINGS SHALL NOT BE MORE THAN 7-3/4" LOWER THAN THRESHOLD AND MAINTAIN 1/4" INCH PER FOOT SLOPE AWAY FROM BUILDING FOR DRAINAGE.
- SLOPE ALL GRADES AWAY FROM NEW CONSTRUCTION AT 6" FOR EVERY 5'.
- ALL NEW CONSTRUCTION TO BLEND/MATCH EXISTING.
- ALL WOOD TO BE DOUGLAS FIR #2 OR BETTER, U.O.N.
- ALL CONCRETE TO BE 2,500 P.S.I. @ 28 DAYS U.O.N.
- PROVIDE FIRE DEPARTMENT ACCESS AT ALL TIMES DURING CONSTRUCTION.
- CONTRACTOR IS TO PROVIDE AND INSTALL ALL WORK SHOWN ON DRAWINGS, SUBJECT TO THE LIMITATIONS OF SCOPE OF THE BASE BID, LISTED ABOVE. THE CONTRACTOR SHALL PROVIDE MISCELLANEOUS FASTENERS, BLOCKING AND SEALANTS INCIDENTAL TO COMPLETE THE CONTRACTED WORK. THIS SHALL INCLUDE SUPPLYING AND INSTALLING NECESSARY BACKING INSIDE WALLS FOR THE INSTALLATION OF WALL HANGING ACCESSORIES WHERE INDICATED. ALL WORK SHALL BE INSTALLED AS SHOWN ON DRAWINGS, PLUMB, AND LEVEL, TRUE TO LINE AND SECURELY FASTENED OR ANCHORED.
- CONTRACTOR SHALL REVIEW ALL PLANS AND SPECIFICATIONS TO COORDINATE WITH EXISTING BUILDING CONDITIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BRING ANY FIELD OBSERVED CODE VIOLATIONS, OR INCORRECT EXISTING CONSTRUCTION INCLUDING APPARENT CONFLICTS BETWEEN THE EXISTING CONSTRUCTION AND THE CONTRACT DRAWINGS TO THE IMMEDIATE ATTENTION OF THE DESIGNER. DO NOT SCALE DRAWINGS. CONTACT DESIGNER FOR CLARIFICATION OF DIMENSIONS.
- CONTRACTOR SHALL MAKE EVERY REASONABLE EFFORT TO PROTECT THE POSSESSIONS OF THE OWNER THAT REMAIN IN OR ADJACENT TO THE WORK ARE FROM LOSS OR DAMAGE. ANY PORTION OF THE PROPERTY DAMAGED BY THE CONTRACTOR OR SUBCONTRACTOR DURING THE COURSE OF THE WORK MUST BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER. THE TERM "DAMAGES" SHALL INCLUDE, BUT NOT BE LIMITED TO ANY DAMAGE CAUSED BY CONTRACT OPERATION OR WORKERS DURING CONSTRUCTION TO THE OWNER'S RESIDENCE, FURNISHINGS, CLOTHING, FENCES, ADJOINING PROPERTIES OR TO PUBLIC SPACES.

PLUMBING NOTES:

- SHOWER HEADS SHALL HAVE A MAXIMUM FLOW RATE OF 1.8 GPM MEASURED AT 80 PSI AND MUST COMPLY WITH DIVISION 4.3 OF THE CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN) PER CPC SECTION 408.2.
- SHOWER TO BE PROVIDED WITH PRESSURE BALANCE OR THERMOSTATIC MIXING VALVE CONTROLS
- THE SIZE OF WATER CLOSETS TO BE MAXIMUM 1.28 GALLONS PER FLUSH.
- FAUCETS AT LAVATORIES SHALL HAVE A MAXIMUM WATER SUPPLY FLOW RATE OF 1.2 GPM.
- KITCHEN SINK FAUCETS SHALL HAVE A MAXIMUM FLOW RATE OF 1.8 GPM.
- PROVIDE 1-1/2" DRAIN LINE MINIMUM FROM KITCHEN. CPC 420.3
- PROVIDE A LISTED AIR GAP FOR DISHWASHER. CPC 414.3
- PROVIDE A DEDICATED GAS LINE FROM THE METER TO THE APPLIANCE.
- PROVIDE NON-REMOVABLE BACKFLOW PREVENTION DEVICE ON ALL EXTERIOR HOSE BIBS.
- MINIMUM OF 1/4" PER FOOT (2%) SLOPE FOR ALL HORIZONTAL DRAINAGE PIPING.
- SEISMIC STRAPPING FOR HOT WATER HEATER REQUIRED PER CPC SECTION 508.2.
- THE HOT WATER HEATER TEMPERATURE/PRESSURE RELIEF VALVE SHALL HAVE ATTACHED TO IT A PIPE WHICH WILL RUN OUTSIDE THE BUILDING WITH THE END OF THE PIPE BETWEEN 6 & 24 INCHES ABOVE GRADE & POINTED DOWN

ELECTRICAL NOTES:

- ARC FAULT CIRCUIT INTERRUPTER REQUIRED FOR ALL NEW 120-VOLT, SINGLE-PHASE, 15 AND 20 AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, LAUNDRY ROOMS, GARAGE, HALLWAYS, OR SIMILAR ROOMS OR AREAS.
- PER CEC 406.12, PROVIDE TAMPER-RESISTANT RECEPTACLES IN AREAS SPECIFIED IN CEC 210.52, SPECIFICALLY ALL 125-VOLT, 15- AND 20-AMPERE RECEPTACLES IN AREAS SUCH AS KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, SUNROOMS, BEDROOMS, RECREATION ROOMS, LAUNDRY ROOMS, GARAGE, OR SIMILAR ROOMS OR AREAS OF A DWELLING UNIT.
- RECEPTACLES SHALL BE INSTALLED SUCH THAT NO POINT MEASURED HORIZONTALLY ALONG THE FLOOR LINE OF ANY WALL SPACE IS MORE THAN 6 FEET FROM ANOTHER RECEPTACLE OUTLET.
- PROVIDE SMOKE DETECTORS IN EACH ROOM USED FOR SLEEPING PURPOSES AND ON THE CEILING OR WALL OUTSIDE OF EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS AND ON EACH STORY WITHIN A DWELLING UNIT. ALL SMOKE ALARMS SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTIVATION OF ONE ALARM SHALL ACTIVATE ALL OF THE ALARMS.
- NEW CEILING MOUNTED SMOKE DETECTORS AND CO2 DETECTORS SHALL BE HARD WIRED TO 110 V AND HAVE A BATTERY BACKUP.
- PROVIDE AND INSTALL HARD-WIRED INTERCONNECTED CARBON MONOXIDE DETECTORS WITH BATTERY BACKUPS OUTSIDE OF EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOM(S) AND ON EVERY LEVEL OF A DWELLING UNIT INCLUDING BASEMENTS.
- ANY SMOKE ALARM WITHIN 20 FEET OF A PERMANENTLY INSTALLED COOKING APPLIANCE SHALL BE THE IONIZATION OR PHOTOELECTRIC ALARM TYPE AND HAVE A MINIMUM SPACING OF 10 FEET AWAY.
- THE MINIMUM DISCONNECTION MEANS FOR A SINGLE FAMILY DWELLING IS 100 AMPERES, 3-WIRE.
- PROVIDE ADEQUATE GROUND TO ELECTRICAL SERVICE ENTRY PANEL. VERIFY OR PROVIDE BOND TO METAL GAS AND WATER PIPES.
- ELECTRICAL SUB PANELS SHALL NOT BE LOCATED IN THE VICINITY OF EASILY IGNITABLE MATERIALS SUCH AS CLOTHES CLOSETS.
- STAGGER NEW ELECTRICAL OUTLETS BY AT LEAST 24-INCHES ON THE OPPOSITE SIDE OF THE FIRE-WALL (GARAGE/ HOUSE WALL) PER BUILDING CODE SECTION 712.3.2.
- PROVIDE AND INSTALL RECEPTACLE OUTLETS AT HOUSE EXTERIOR WALLS THAT ARE GFCI PROTECTED, GASKETED-COVER TYPE FOR USE IN WET LOCATIONS.
- PROVIDE AT LEAST ONE GFCI OUTLET WITHIN 3 FEET OF EACH SINK IN THE BATHROOMS.
- AT LEAST ONE NEW LUMINAIRE IN EACH BATHROOM SHALL BE CONTROLLED BY A VACANCY SENOR.
- PER CEC, AT LEAST ONE 20-AMP BRANCH CIRCUIT SHALL BE PROVIDED TO SUPPLY THE BATHROOM RECEPTACLE OUTLETS. THIS CIRCUIT SHALL HAVE NO OTHER OUTLETS. BATHROOM LIGHTING CANNOT BE ON AN OUTLET CIRCUIT.
- A MINIMUM OF (2) 20 AMP GFCI PROTECTED CIRCUITS SHALL SUPPLY ALL KITCHEN COUNTER TOP RECEPTACLES, CEC 210.11 (C)(2), & (C) (3).
- PROVIDE 20 AMP DEDICATED CIRCUITS FOR THE DISHWASHER, GARBAGE DISPOSAL, REFRIGERATOR, MICROWAVE AND RANGE
- RECEPTACLE OUTLETS SHALL BE LOCATED NO MORE THAN 20" ABOVE COUNTER TOP AND NO MORE THAN 12" BELOW IF COUNTER DOES NOT EXTEND MORE THAN 6" FROM BASE. PENINSULA COUNTERTOP SPACES 24" LONG OR GREATER AND SHORT DIMENSION 12" OR GREATER SHALL HAVE AT LEAST ONE RECEPTACLE.
- ALL KITCHEN RECEPTACLES SHALL BE GFCI PROTECTED. CEC 210(A) 5 & 6.
- THE KITCHEN COUNTERTOP WALLS SHALL BE NO MORE THAN 24" FROM A GFCI OUTLET. THIS DOES NOT APPLY TO ANY COUNTERTOP WALLS BEHIND SINKS, RANGES OR MOUNTED COOKTOPS.
- THE UNDERCOUNTER ELECTRICAL OUTLET SERVING THE DISHWASHER SHALL BE GFCI PROTECTED.
- ALL NEW RECESSED LIGHTING SHALL COMPLY WITH THE REFERENCE JOINT APPENDIX JAB AND SHALL NOT CONTAIN SCREW BASE SOCKET. CA ENERGY SECTIONS 150.0 (K) 1 C.
- RECESSED LIGHTING FIXTURES TO BE LISTED FOR ZERO CLEARANCE INSULATION CONTACT (IC) IN ACCORDANCE W/ CEC 150(K)(L)(A).
- ALL PROPOSED LIGHTING TO BE HIGH EFFICACY IN ACCORDANCE WITH CEC 150, 0 (K)(L)(A)
- ALL NEW OUTDOOR LIGHTING, IF ANY, IS TO BE HIGH-EFFICACY, TO BE CONTROLLED BY AN ON/OFF SWITCH AND INCLUDE ONE OF THE FOLLOWING PER CA ENERGY CODE SECTION 150.0 (K) 3A.:
 - PHOTOCELL AND MOTION SENSOR
 - PHOTOCONTROL AND AUTOMATIC TIME SWITCH CONTROL
 - ASTRONOMICAL TIME CLOCK CONTROL.
 - ENERGY MANAGEMENT CONTROL SYSTEM

MECHANICAL NOTES:

- PER CMC, SECTION 502.2.1, ALL NEW EXHAUST DUCTS SHALL TERMINATE AT LEAST 3 FEET FROM ANY OPENING IN THE BUILDING.
- PROVIDE EXHAUST HOOD OVER RANGE/ COOKTOP, 100 CFM MINIMUM AND IT SHALL TERMINATE OUTSIDE.

SITE NOTES:

- NEW DOWNSPOUTS DRAIN TO SPLASH BLOCKS TO VEGETATED AREAS
- STORMWATER MANAGEMENT DURING CONSTRUCTION SHALL FOLLOW SECTION 4.106.2 OF THE GREEN BUILDING CODE

Revision History	
	AS-BUILT
	PRELIMINARY DESIGN
	DESIGN
	PERMIT SET
▲	PLAN REVIEW COMMENTS
▲	PLAN REVIEW COMMENTS

REMODEL & ADDITION	OWNER:
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CODE & CONSTRUCTION NOTES

A0.2

INSPECTOR SIGNOFF
CHAPTER 3 GREEN BUILDING SECTION 301 GENERAL

301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7.

301.1.1 Additions and alterations. [HCD] The mandatory provisions of Chapter 4 shall be applied to additions or alterations of existing residential buildings where the addition or alteration increases the building's conditioned area, volume, or size. The requirements shall apply only to and/or within the specific area of the addition or alteration.

Note: On and after January 1, 2014, residential buildings undergoing permitted alterations, additions, or improvements shall replace non-compliant plumbing fixtures with water-conserving plumbing fixtures. Plumbing fixture replacement is required prior to issuance of a certificate of final completion, certificate of occupancy or final permit approval by the local building department. See Civil Code Section 1101.1, et seq., for the definition of a noncompliant plumbing fixture, types of residential buildings affected and other important enactment dates.

301.2 LOW-RISE AND HIGH-RISE RESIDENTIAL BUILDINGS. [HCD] The provisions of individual sections of CALGreen may apply to either low-rise residential buildings high-rise residential buildings, or both. Individual sections will be designated by banners to indicate where the section applies specifically to low-rise only (LR) or high-rise only (HR). When the section applies to both low-rise and high-rise buildings, no banner will be used.

SECTION 302 MIXED OCCUPANCY BUILDINGS

302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy.

ABBREVIATION DEFINITIONS:

HCD	Department of Housing and Community Development
BSC	California Building Standards Commission
DSA-SS	Division of the State Architect, Structural Safety
OSHDP	Office of Statewide Health Planning and Development
LR	Low Rise
HR	High Rise
AA	Additions and Alterations
N	New

CHAPTER 4 RESIDENTIAL MANDATORY MEASURES

DIVISION 4.1 PLANNING AND DESIGN

SECTION 4.1.2 DEFINITIONS

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

FRENCH DRAIN. A trench, hole or other depressed area loosely filled with rock, gravel, fragments of brick or similar pervious material used to collect or channel drainage or runoff water.

WATTLES. Watties are used to reduce sediment in runoff. Watties are often constructed of natural plant materials such as hay, straw or similar material shaped in the form of tubes and placed on a downflow slope. Watties are also used for perimeter and inlet controls.

4.106 SITE DEVELOPMENT

4.106.1 GENERAL. Preservation and use of available natural resources shall be accomplished through evaluation and careful planning to minimize negative effects on the site and adjacent areas. Preservation of slopes, management of storm water drainage and erosion controls shall comply with this section.

4.106.2 STORM WATER DRAINAGE AND RETENTION DURING CONSTRUCTION. Projects which disturb less than one acre of soil and are not part of a larger common plan of development which in total disturbs one acre or more, shall manage storm water drainage during construction. In order to manage storm water drainage during construction, one or more of the following measures shall be implemented to prevent flooding of adjacent property, prevent erosion and retain soil runoff on the site.

- Retention basins of sufficient size shall be utilized to retain storm water on the site.
- Where storm water is conveyed to a public drainage system, collection point, gutter or similar disposal method, water shall be filtered by use of a barrier system, wattle or other method approved by the enforcing agency.
- Compliance with a lawfully enacted storm water management ordinance.

4.106.3 GRADING AND PAVING. Construction plans shall indicate how the site grading or drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:

- Swales
- Water collection and disposal systems
- French drains
- Water retention gardens
- Other water measures which keep surface water away from buildings and aid in groundwater recharge.

Exception: Additions and alterations not altering the drainage path.

4.106.4 Electric vehicle (EV) charging for new construction. New construction shall comply with Sections 4.106.4.1 and 4.106.4.2 to facilitate future installation and use of EV chargers. Electric vehicle supply equipment (EVSE) shall be installed in accordance with the *California Electrical Code*, Article 625.

Exceptions: On a case-by-case basis, where the local enforcing agency has determined EV charging and infrastructure are not feasible based upon one or more of the following conditions:

- Where there is no commercial power supply.
- Where there is evidence substantiating that manageage system, collection point, gutter or similar infrastructure design requirements on the utility side of the meter so as to increase the utility side cost to the homeowner or developer by more than \$400.00 per unit.

4.106.4.1 New one- and two-family dwellings and townhouses with attached private garages. For each dwelling unit, install a listed raceway to accommodate a dedicated 208/240-volt branch circuit. The raceway shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall originate at the main service or subpanel and shall terminate into a listed cabinet, box or other enclosure in close proximity to the proposed location of an EV charger. Raceways are required to be continuous at enclosed, inaccessible or concealed areas and spaces. The service panel and/or subpanel shall provide capacity to install a 40-ampere minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overcurrent protective device.

4.106.4.1.1 Identification. The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for EV charging as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE".

4.106.4.2 New multifamily dwellings. Where 17 or more multifamily dwelling units are constructed on a building site, 3 percent of the total number of parking spaces provided for all types of parking facilities, but in no case less than one, shall be electric vehicle charging stations (EV spaces) capable of supporting future EVSE. Calculations for the number of EV spaces shall be rounded up to the nearest whole number.

Note: Construction documents are intended to demonstrate the project's capability and capacity for facilitating future EV charging. There is no requirement for EV spaces to be constructed or available until EV chargers are installed for use.

4.106.4.2.1 Electric vehicle charging space (EV space) locations. Construction documents shall indicate the location of proposed EV spaces. At least one EV space shall be located in common use areas and available for use by all residents.

When EV chargers are installed, EV spaces required by Section 4.106.2.2, Item 3, shall comply with at least one of the following options:

- The EV space shall be located adjacent to an accessible parking space meeting the requirements of the *California Building Code*, Chapter 11A, to allow use of the EV charger from the accessible parking space.
- The EV space shall be located on an accessible route, as defined in the *California Building Code*, Chapter 2, to the building.

INSPECTOR SIGNOFF

4.106.4.2.2 Electric vehicle charging space (EV space) dimensions. The EV space shall be designed to comply with the following:

- The minimum length of each EV space shall be 18 feet (5486 mm).
- The minimum width of each EV space shall be 9 feet (2743 mm).
- One in every 25 EV spaces, but not less than one EV space, shall have an 8-foot (2438 mm) wide minimum aisle. A 5-foot (1524 mm) wide minimum aisle shall be permitted provided the minimum width of the EV space is 12 feet (3658 mm).
 - Surface slope for this EV space and the aisle shall not exceed 1 unit vertical in 48 units horizontal (2.083 percent slope) in any direction.

4.106.4.2.3 Single EV space required. Install a listed raceway capable of accommodating a 208/240-volt dedicated branch circuit. The raceway shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall originate at the main service or subpanel and shall terminate into a listed cabinet, box or enclosure in close proximity to the proposed location of the EV spaces. Construction documents shall identify the raceway termination point. The service panel and/or subpanel shall provide capacity to install a 40-ampere minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overcurrent protective device.

4.106.4.2.4 Multiple EV spaces required. Construction documents shall indicate the raceway termination point and proposed location of future EV spaces and EV chargers. Construction documents shall also provide information on amperage of future EVSE, raceway method(s), wiring schematics and electrical load calculations to verify that the electrical panel service capacity and electrical system, including any on-site distribution transformer(s), have sufficient capacity to simultaneously charge all EVs at all required EV spaces at the full rated amperage of the EVSE. Plan design shall be based upon a 40-ampere minimum branch circuit. Raceways and related components that are planned to be installed underground, enclosed, inaccessible or in concealed areas and spaces shall be installed at the time of original construction.

4.106.4.2.5 Identification. The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging purposes as "EV CAPABLE" in accordance with the *California Electrical Code*.

Notes:

- The California Department of Transportation adopts and publishes the "California Manual on Uniform Traffic Control Devices (California MUTCD)" to provide uniform standards and specifications for all official traffic control devices in California. Zero Emission Vehicle Signs and Pavement Markings can be found in the New Policies & Directives Number 13-01. Website: www.dot.ca.gov/trafficops/policy/13-01.pdf
- See Vehicle Code Section 22511 for EV charging space signage in off-street parking facilities and for use of EV charging spaces.
- The Governor's Office of Planning and Research (OPR) published a "Zero-Emission Vehicle Community Readiness Guidebook" which provides helpful information for local governments, residents and businesses. Website: http://opr.ca.gov/docs/ZEV_Guidebook.pdf.

DIVISION 4.2 ENERGY EFFICIENCY

4.201 GENERAL

4.201.1 SCOPE. For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory standards.

DIVISION 4.3 WATER EFFICIENCY AND CONSERVATION

4.303 INDOOR WATER USE

4.303.1 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:

4.303.1.1 Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-type Toilets.

Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.

4.303.1.2 Urinals. The effective flush volume of wall mounted urinals shall not exceed 0.125 gallons per flush. The effective flush volume of all other urinals shall not exceed 0.5 gallons per flush.

4.303.1.3 Showerheads.

4.303.1.3.1 Single Showerhead. Showerheads shall have a maximum flow rate of not more than 2.0 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.

4.303.1.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 2.0 gallons per minute at 80 psi, or the shower shall be designed to only allow one shower outlet to be in operation at a time.

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

4.303.1.4 Faucets.

4.303.1.4.1 Residential Lavatory Faucets. The maximum flow rate of residential lavatory faucets shall not exceed 1.2 gallons per minute at 60 psi. The minimum flow rate of residential lavatory faucets shall not be less than 0.8 gallons per minute at 20 psi.

4.303.1.4.2 Lavatory Faucets in Common and Public Use Areas. The maximum flow rate of lavatory faucets installed in common and public use areas (outside of dwellings or sleeping units) in residential buildings shall not exceed 0.5 gallons per minute at 60 psi.

4.303.1.4.3 Metering Faucets. Metering faucets when installed in residential buildings shall not deliver more than 0.25 gallons per cycle.

4.303.1.4.4 Kitchen Faucets. The maximum flow rate of kitchen faucets shall not exceed 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi.

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

4.303.2 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures and fittings shall be installed in accordance with the *California Plumbing Code*, and shall meet the applicable standards referenced in Table 1701.1 of the *California Plumbing Code*.

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

TABLE - MAXIMUM FIXTURE WATER USE	
FIXTURE TYPE	FLOW RATE
SHOWER HEADS (RESIDENTIAL)	2.0 GPM @ 80 PSI
LAVATORY FAUCETS (RESIDENTIAL)	MAX. 1.2 GPM @ 60 PSI MIN. 0.8 GPM @ 20 PSI
LAVATORY FAUCETS IN COMMON & PUBLIC USE AREAS	0.5 GPM @ 60 PSI
KITCHEN FAUCETS	1.8 GPM @ 60 PSI
METERING FAUCETS	0.25 GAL/CYCLE
WATER CLOSET	1.28 GAL/FLUSH
URINALS	0.125 GAL/FLUSH

INSPECTOR SIGNOFF

4.304 OUTDOOR WATER USE

4.304.1 IRRIGATION CONTROLLERS. Automatic irrigation system controllers for landscaping provided by the builder and installed at the time of final inspection shall comply with the following:

- Controllers shall be weather- or soil moisture-based controllers that automatically adjust irrigation in response to changes in plants' needs as weather conditions change.
- Weather-based controllers without integral rain sensors or communication systems that account for local rainfall shall have a separate wired or wireless rain sensor which connects or communicates with the controller(s). Soil moisture-based controllers are not required to have rain sensor input.

Note: More information regarding irrigation controller function and specifications is available from the Irrigation Association.

DIVISION 4.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

4.406 ENHANCED DURABILITY AND REDUCED MAINTENANCE

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

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

Exceptions:

- Excavated soil and land-clearing debris.
- Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist or are not located reasonably close to the jobsite.
- The enforcing agency may make exceptions to the requirements of this section when isolated jobsite are located in areas beyond the haul boundaries of the diversion facility.

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

- Identify the construction and demolition waste materials to be diverted from disposal by recycling, reuse on the project or salvage for future use or sale.
- Specify if construction and demolition waste materials will be sorted on-site (source separated) or bulk mixed (single stream).
- Identify diversion facilities where the construction and demolition waste material collected will be taken.
- Identify construction methods employed to reduce the amount of construction and demolition waste generated.
- Specify that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.

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

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

4.408.4 WASTE STREAM REDUCTION ALTERNATIVE (LR). Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed 3.4 lbs./sq.ft. of the building area shall meet the minimum 65% construction waste reduction requirement in Section 4.408.1.

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

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

Notes:

- Sample forms found in "A Guide to the California Green Building Standards Code (Residential)" located at www.hcd.ca.gov/CALGreen.html may be used to assist in documenting compliance with this section.
- Mixed construction and demolition debris (C & D) processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).

4.410 BUILDING MAINTENANCE AND OPERATION

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

- Directions to the owner or occupant that the manual shall remain with the building throughout the life cycle of the structure.
- Operation and maintenance instructions for the following:
 - Equipment and appliances, including water-saving devices and systems, HVAC systems, photovoltaic systems, electric vehicle chargers, water-heating systems and other major appliances and equipment.
 - Roof and yard drainage, including gutters and downspouts.
 - Space conditioning systems, including condensers and air filters.
 - Landscape irrigation systems.
 - Water reuse systems.
- Information from local utility, water and waste recovery providers on methods to further reduce resource consumption, including recycle programs and locations.
- Public transportation and/or carpool options available in the area.
- Educational material on the positive impacts of an interior relative humidity between 30-60 percent and what methods an occupant may use to maintain the relative humidity level in that range.
- Information about water-conserving landscape and irrigation design and controllers which conserve water.
- Instructions for maintaining gutters and downspouts and the importance of diverting water at least 5 feet away from the foundation.
- Information on required routine maintenance measures, including, but not limited to, caulking, painting, grading around the building, etc.
- Information about state solar energy and incentive programs available.
- A copy of all special inspections verifications required by the enforcing agency or this [*California Green Building Standards*] code.

4.410.2 RECYCLING BY OCCUPANTS. Where 5 or more multifamily dwelling units are constructed on a building site, provide readily accessible area(s) that serves all buildings on the site and is identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals, or meet a lawfully enacted local recycling ordinance, if more restrictive.

DIVISION 4.5 ENVIRONMENTAL QUALITY

SECTION 4.501 GENERAL

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

SECTION 4.502 DEFINITIONS

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

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

COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, prefabricated wood I-joists or finger-jointed lumber, all as specified in California Code of regulations (CCR), title 17, Section 93120.1.

DIRECT-VENT APPLIANCE. A fuel-burning appliance with a sealed combustion system that draws all air for combustion from the outside atmosphere and discharges all flue gases to the outside atmosphere.

INSPECTOR SIGNOFF

MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base Reactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundredths of a gram (g O₃/g ROG).
Note: MIR values for individual compounds and hydrocarbon solvents are specified in CCR, Title 17, Sections 94700 and 94701.

MOISTURE CONTENT. The weight of the water in wood expressed in percentage of the weight of the oven-dry wood.

PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging).
Note: PWMIR is calculated according to equations found in CCR, Title 17, Section 94521 (a).

REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere.

VOC. A volatile organic compound (VOC) broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a).

4.503 FIREPLACES

4.503.1 GENERAL. Any installed gas fireplace shall be a direct-vent sealed-combustion type. Any installed woodstove or pellet stove shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indication they are certified to meet the emission limits. Woodstoves, pellet stoves and fireplaces shall also comply with applicable local ordinances.

4.504 POLLUTANT CONTROL

4.504.1 COVERING OF DUCT OPENINGS & PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION. At the time of rough installation, during storage on the construction site and until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheet metal or other methods acceptable to the enforcing agency to reduce the amount of water, dust or debris which may enter the system.

4.504.2 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with this section.

4.504.2.1 Adhesives, Sealants and Caulks. Adhesives, sealant and caulks used on the project shall meet the requirements of the following standards unless more stringent local or regional air pollution or air quality management district rules apply:

- Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable or SCAQMD Rule 1168 VOC limits, as shown in Table 4.504.1 or 4.504.2, as applicable. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products, as specified in Subsection 2 below.
- Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than 1 pound and do not consist of more than 10 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of *California Code of Regulations*, Title 17, commencing with section 94507.

4.504.2.2 Paints and Coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Suggested Control Measure, as shown in Table 4.504.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 4.504.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in subsections 4.21, 4.36, and 4.37 of the 2007 California Air Resources Board, Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 4.504.3 shall apply.

4.504.2.3 Aerosol Paints and Coatings. Aerosol paints and coatings shall meet the Product-weighted MIR Limits for ROC in Section 94522(a)(2) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(e)(1) and (f)(1) of *California Code of Regulations*, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8, Rule 49.

4.504.2.4 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:

- Manufacturer's product specification.
- Field verification of on-site product containers.

TABLE 4.504.1 - ADHESIVE VOC LIMIT_{1,2}

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

ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
INDOOR CARPET ADHESIVES	50
CARPET PAD ADHESIVES	50
OUTDOOR CARPET ADHESIVES	150
WOOD FLOORING ADHESIVES	100
RUBBER FLOOR ADHESIVES	60
SUBFLOOR ADHESIVES	50
CERAMIC TILE ADHESIVES	65
VCT & ASPHALT TILE ADHESIVES	50
DRYWALL & PANEL ADHESIVES	50
COVE BASE ADHESIVES	50
MULTIPURPOSE CONSTRUCTION ADHESIVE	70
STRUCTURAL GLAZING ADHESIVES	100
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250
OTHER ADHESIVES NOT LISTED	50

SPECIALTY APPLICATIONS

PVC WELDING	510
CPVC WELDING	490
ABS WELDING	325
PLASTIC CEMENT WELDING	250
ADHESIVE PRIMER FOR PLASTIC	550
CONTACT ADHESIVE	80
SPECIAL PURPOSE CONTACT ADHESIVE	250
STRUCTURAL WOOD MEMBER ADHESIVE	140
TOP & TRIM ADHESIVE	250
SUBSTRATE SPECIFIC APPLICATIONS	
METAL TO METAL	30
PLASTIC FOAMS	50
POROUS MATERIAL (EXCEPT WOOD)	50
WOOD	30
FIBERGLASS	8

INSPECTOR SIGNOFF

TABLE 4.504.2 - SEALANT VOC LIMIT (Less Water and Less Exempt Compounds in Grams per Liter)	
SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NON-POROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

TABLE 4.504.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS _{2,3}	
GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS	
COATING CATEGORY	CURRENT VOC LIMIT
FLAT COATINGS	50
NON-FLAT COATINGS	100
NONFLAT-HIGH GLOSS COATINGS	150
SPECIALTY COATINGS	
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS ₁	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, & UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB & TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC-RICH PRIMERS	340

- GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS
- THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.
- VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

INSPECTOR SIGNOFF

TABLE 4.504.5 - FORMALDEHYDE LIMITS. MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION	
PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLE BOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD ₂	0.13

- VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIF. AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIF. CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.
- THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16" (8 MM).

DIVISION 4.5 ENVIRONMENTAL QUALITY (continued)

4.504.3 CARPET SYSTEMS. All carpet installed in the building interior shall meet the testing and product requirements of at least one of the following:

- Carpet and Rug Institute's Green Label Plus Program.
- California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers" Version 1.1, February 2010 (also known as Specification 01350).
- NSF/ANSI 140 at the Gold level.
- Scientific Certifications Systems Indoor Advantage[®] Gold.

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

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

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

- Products compliant with the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.1, February 2010 (also known as Specification 01350), certified as a CHPS Low-Emitting Material in the Collaborative for High Performance Schools (CHPS) High Performance Products Database.
- Products certified under UL GREENGUARD Gold (formerly the Greenguard Children & Schools program).
- Certification under the Resilient Floor Covering Institute (RFCI) FloorScore program.
- Meet the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers", Version 1.1, February 2010 (also known as Specification 01350).

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

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

- Product certifications and specifications.
- Chain of custody certifications.
- Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.).
- Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269, European 636 35 standards, and Canadian CSA 0121, CSA 0151, CSA 0153 and CSA 0325 standards.
- Other methods acceptable to the enforcing agency.

4.505 INTERIOR MOISTURE CONTROL

4.505.1 General. Buildings shall meet or exceed the provisions of the *California Building Standards Code*.

4.505.2 CONCRETE SLAB FOUNDATIONS. Concrete slab foundations required to have a vapor retarder by California Building Code, Chapter 19, or concrete slab-on-ground floors required to have a vapor retarder by the California Residential Code, Chapter 5, shall also comply with this section.

4.505.2.1 Capillary break. A capillary break shall be installed in compliance with at least one of the following:

- A 4-inch (101.6 mm) thick base of 1/2 inch (12.7mm) or larger clean aggregate shall be provided with a vapor barrier in direct contact with concrete and a concrete mix design, which will address bleeding, shrinkage, and curling, shall be used. For additional information, see American Concrete Institute, ACI 302.2R-06.
- Other equivalent methods approved by the enforcing agency.
- A slab design specified by a licensed design professional.

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

- Moisture content shall be determined with either a probe-type or contact-type moisture meter. Equivalent moisture verification methods may be approved by the enforcing agency and shall satisfy requirements found in Section 101.8 of this code.
- Moisture readings shall be taken at a point 2 feet (610 mm) to 4 feet (1219 mm) from the grade stamped end of each piece verified.
- At least three random moisture readings shall be performed on wall and floor framing with documentation acceptable to the enforcing agency provided at the time of approval to enclose the wall and floor framing.

Insulation products which are visibly wet or have a high moisture content shall be replaced or allowed to dry prior to enclosure in wall or floor cavities. Wet-applied insulation products shall follow the manufacturers' drying recommendations prior to enclosure.

4.506 INDOOR AIR QUALITY AND EXHAUST

4.506.1 Bathroom exhaust fans. Each bathroom shall be mechanically ventilated and shall comply with the following:

- Fans shall be ENERGY STAR compliant and be ducted to terminate outside the building.
- Unless functioning as a component of a whole house ventilation system, fans must be controlled by a humidity control.
 - Humidity controls shall be capable of adjustment between a relative humidity range less than or equal to 50% to a maximum of 80%. A humidity control may utilize manual or automatic means of adjustment.
 - A humidity control may be a separate component to the exhaust fan and is not required to be integral (i.e., built-in)

Notes:

- For the purposes of this section, a bathroom is a room which contains a bathtub, shower or tub/shower combination.
- Lighting integral to bathroom exhaust fans shall comply with the California Energy Code.

4.507 ENVIRONMENTAL COMFORT

4.507.2 HEATING AND AIR-CONDITIONING SYSTEM DESIGN. Heating and air conditioning systems shall be sized, designed and have their equipment selected using the following methods:

- The heat loss and heat gain is established according to ANSI/ACCA 2 Manual J - 2011 (Residential Load Calculation), ASHRAE handbooks or other equivalent design software or methods.
- Duct systems are sized according to ANSI/ACCA 1 Manual D - 2014 (Residential Duct Systems), ASHRAE handbooks or other equivalent design software or methods.
- Select heating and cooling equipment according to ANSI/ACCA 3 Manual S - 2014 (Residential Equipment Selection), or other equivalent design software or methods.

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

INSPECTOR SIGNOFF

**CHAPTER 7
INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS**

702 QUALIFICATIONS

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

- State certified apprenticeship programs.
- Public utility training programs.
- Training programs sponsored by trade, labor or statewide energy consulting or verification organizations.
- Programs sponsored by manufacturing organizations.
- Other programs acceptable to the enforcing agency.

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

- Certification by a national or regional green building program or standard publisher.
- Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors.
- Successful completion of a third party apprentice training program in the appropriate trade.
- Other programs acceptable to the enforcing agency.

Notes:

- Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.
- HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).

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

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

703 VERIFICATIONS

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

INSPECTOR SIGNOFF

Revision History

	AS-BUILT
	PRELIMINARY DESIGN
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▲	PLAN REVIEW COMMENTS
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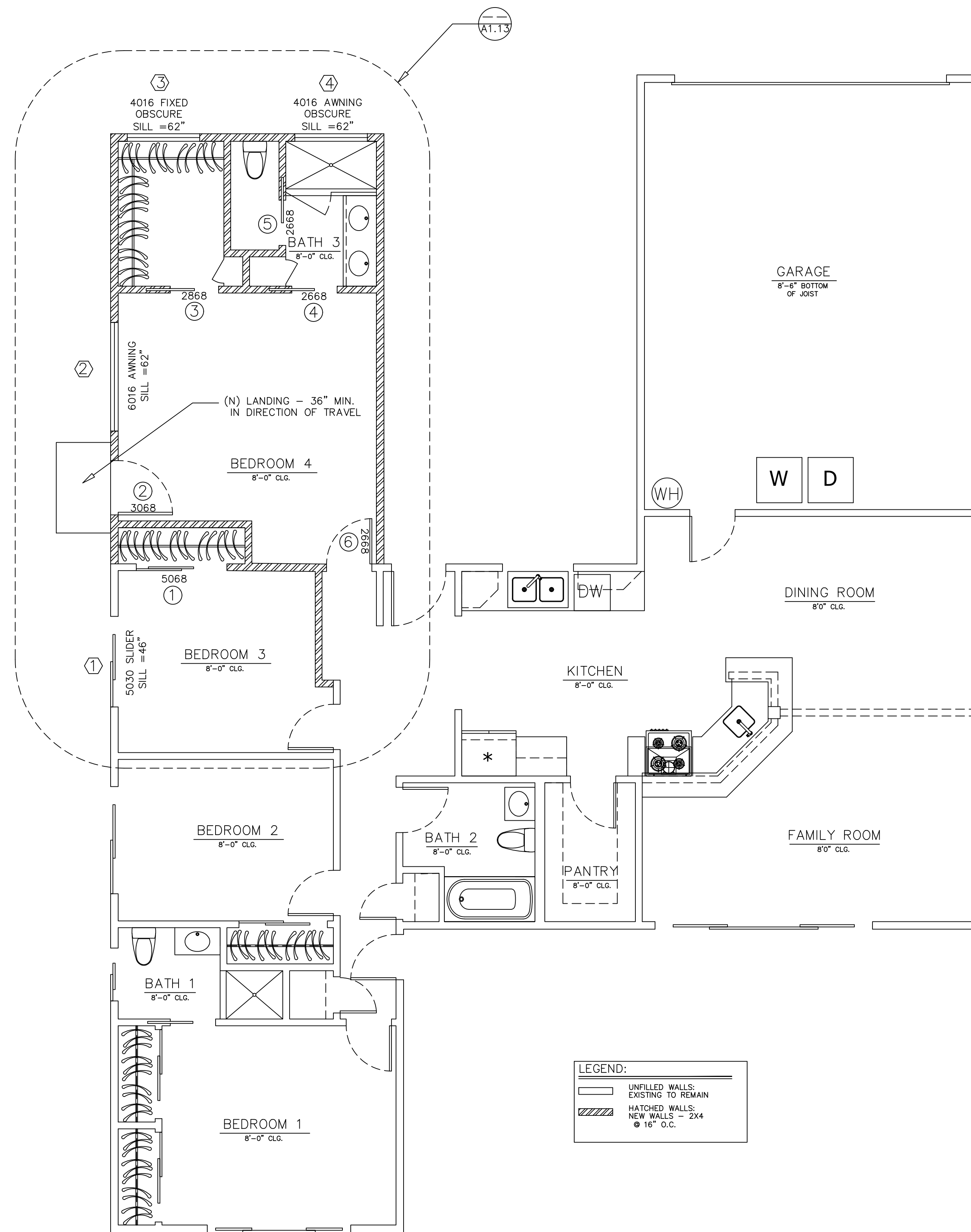
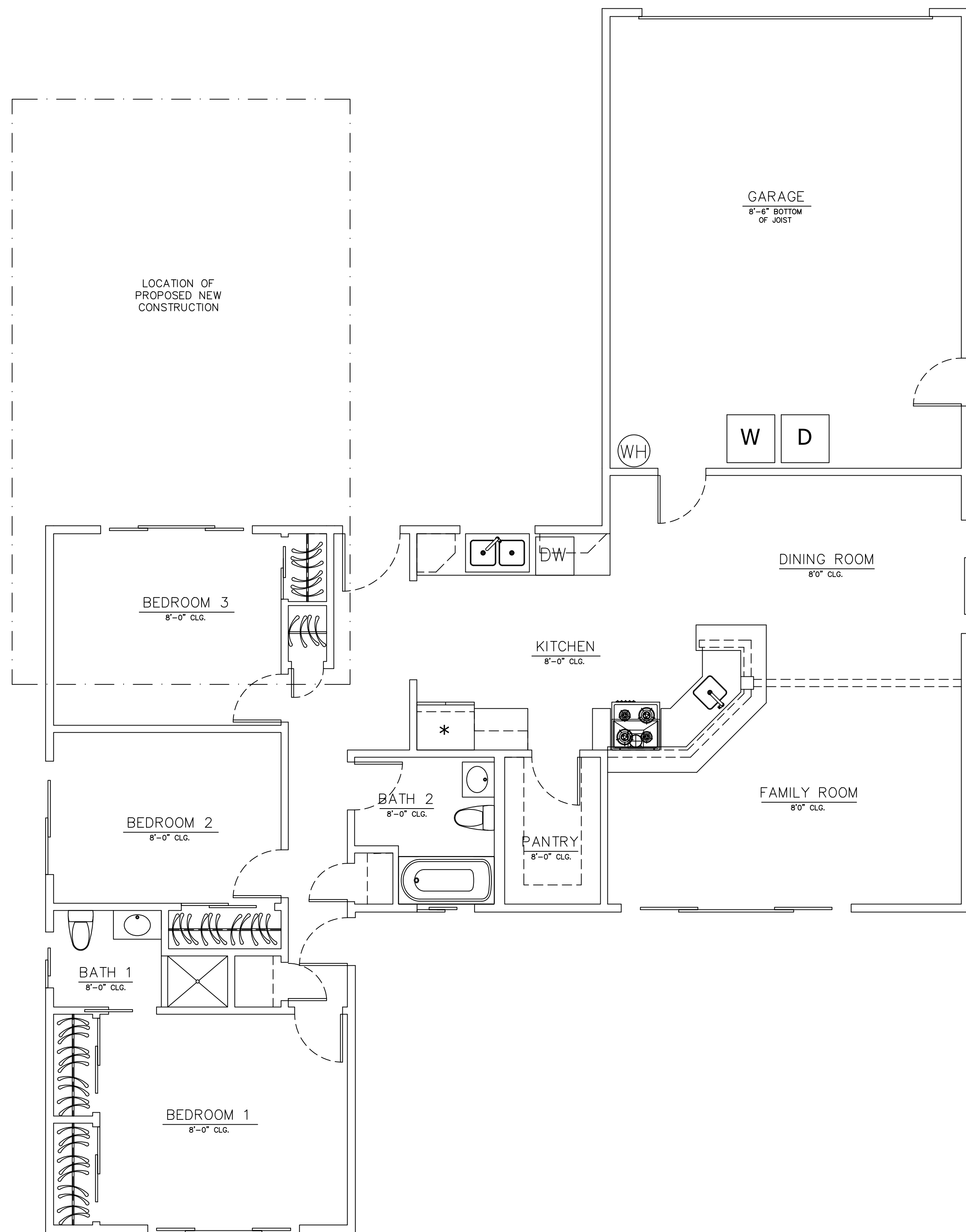
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Peter Christopher Klimen

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CAL GREEN
REQUIREMENTS
PAGE 2

G1.1



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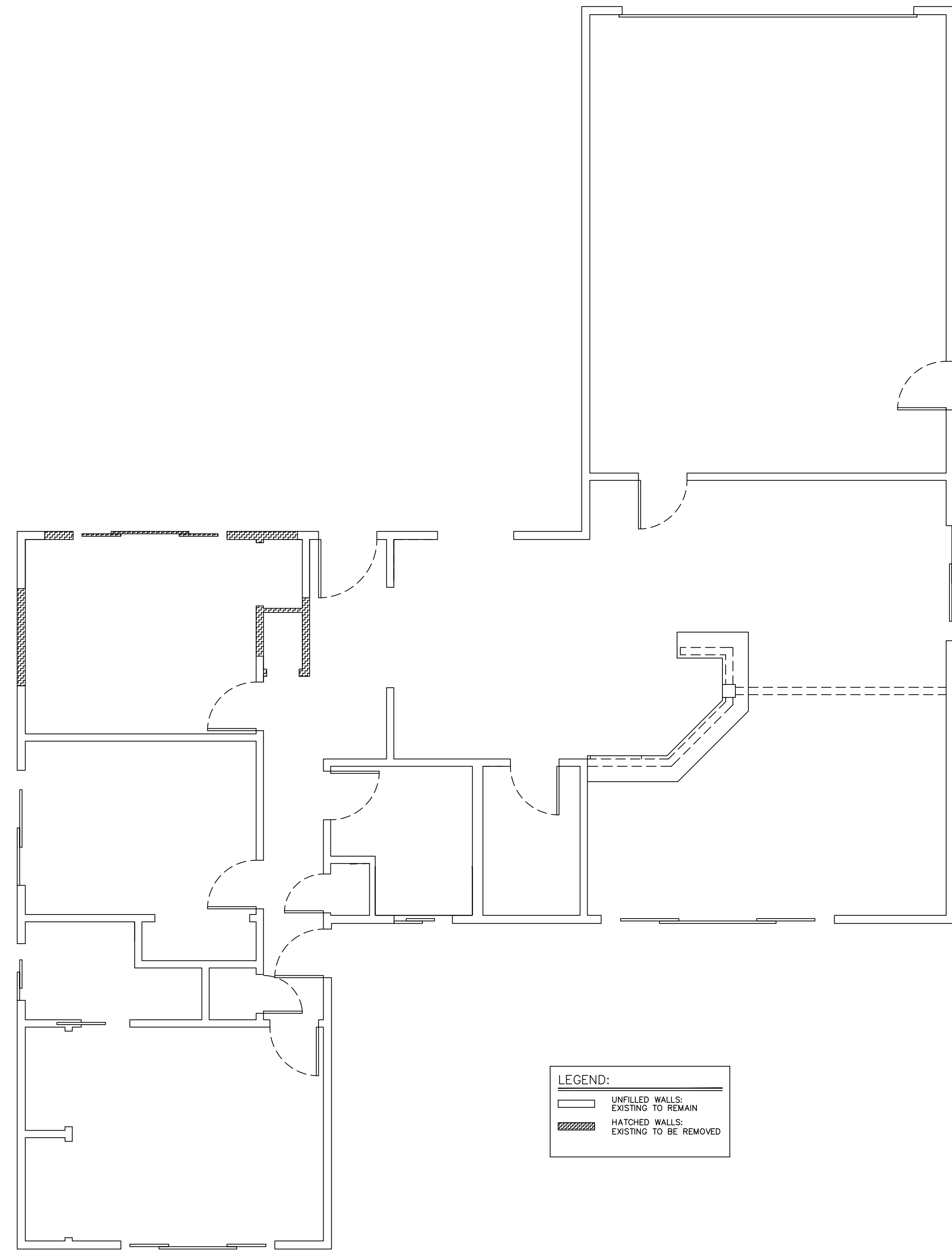
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FLOOR PLAN

A1.10

1 (E) FLOOR PLAN
A1.10 SCALE: 1/4" = 1'-0"

2 (N) FLOOR PLAN
A1.10 1/4" = 1'-0"



LEGEND:
 UNFILLED WALLS:
 EXISTING TO REMAIN
 HATCHED WALLS:
 EXISTING TO BE REMOVED

Revision History	
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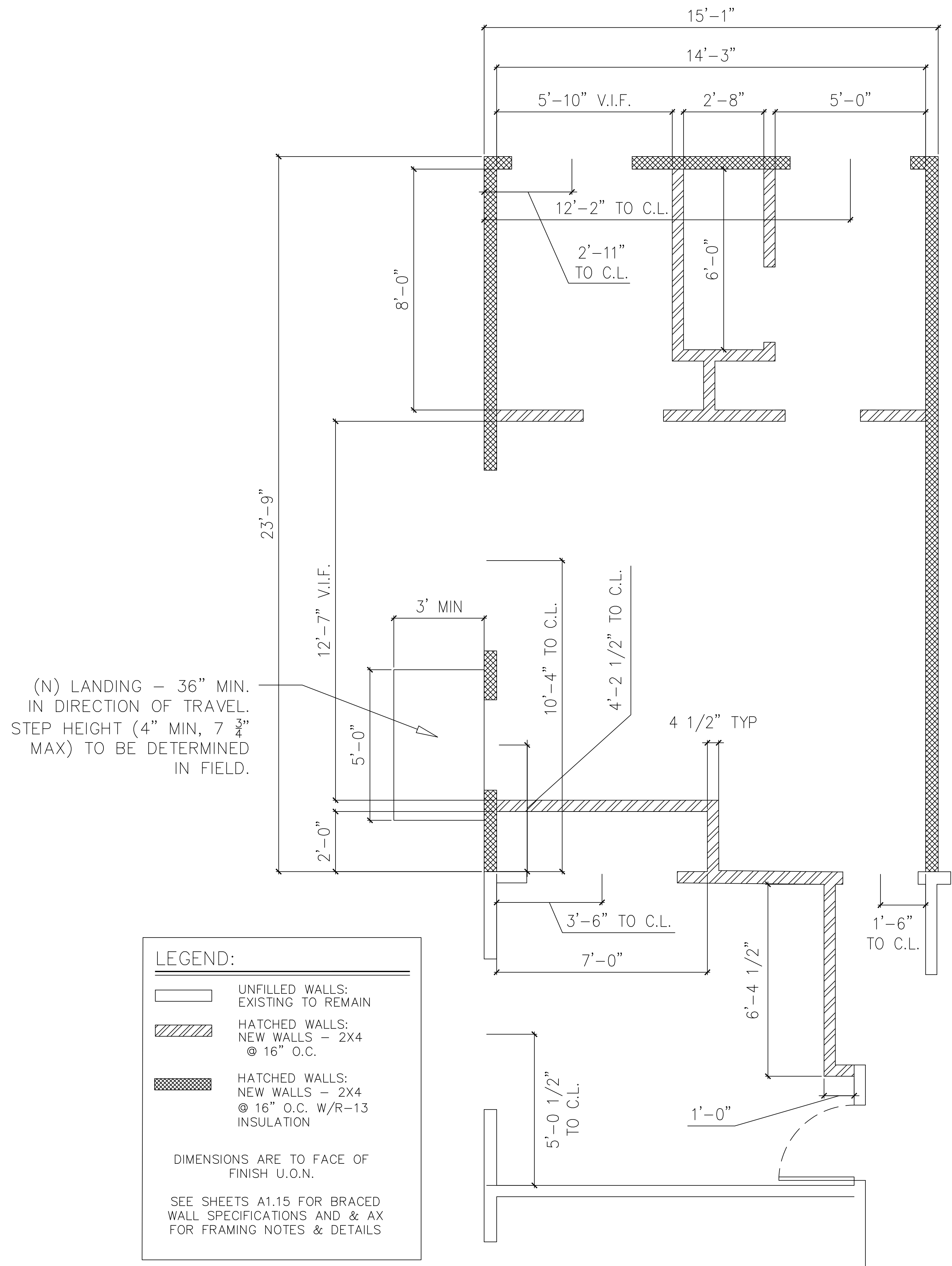
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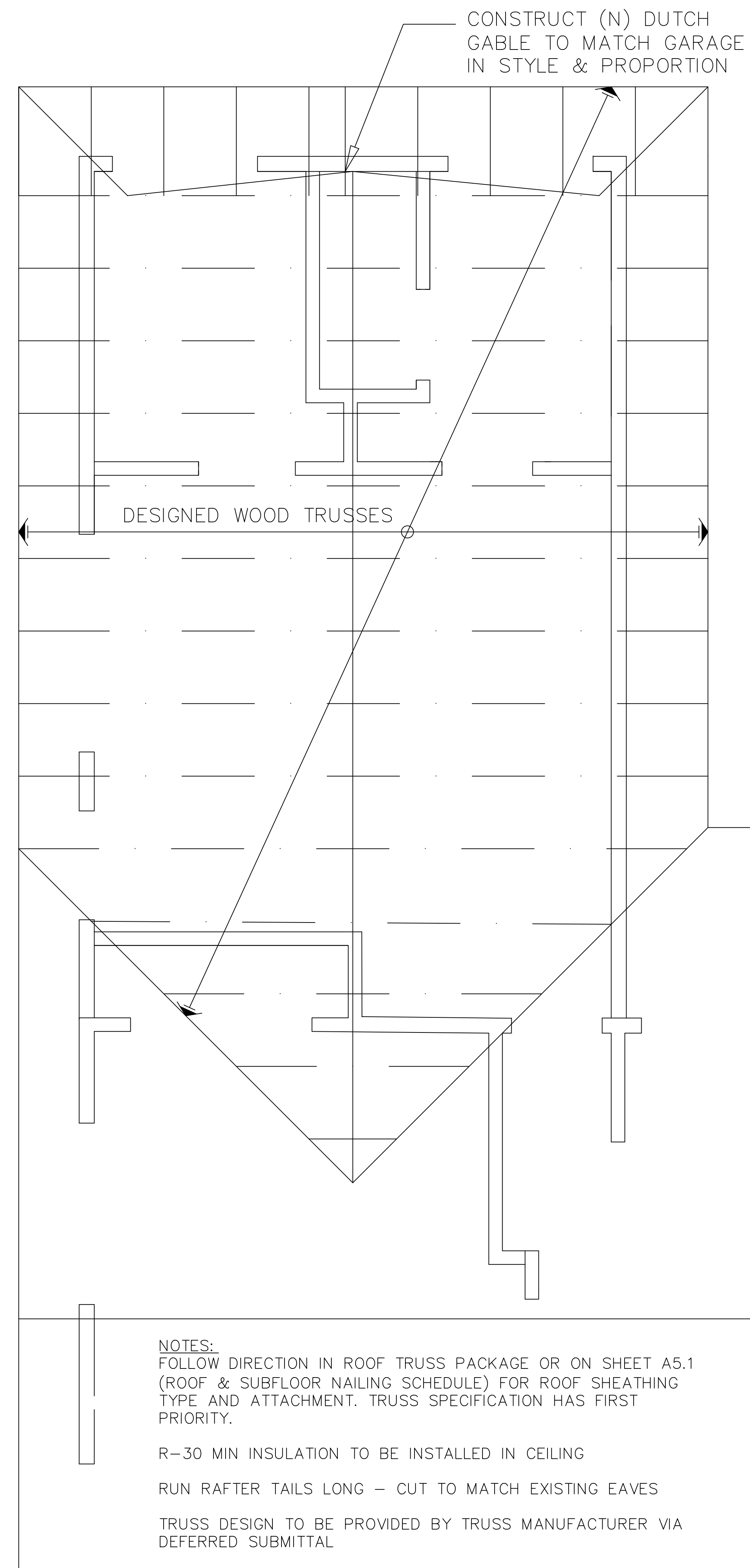
DEMOLITION
 PLAN

1
 A1.12 DEMOLITION PLAN
 SCALE: 1/4"=1'-0"

A1.12



1 FRAMING PLAN
SCALE: 1/2" = 1'-0"



2 ROOF FRAMING PLAN
1/4" = 1'-0"

Revision History	
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	PERMIT SET
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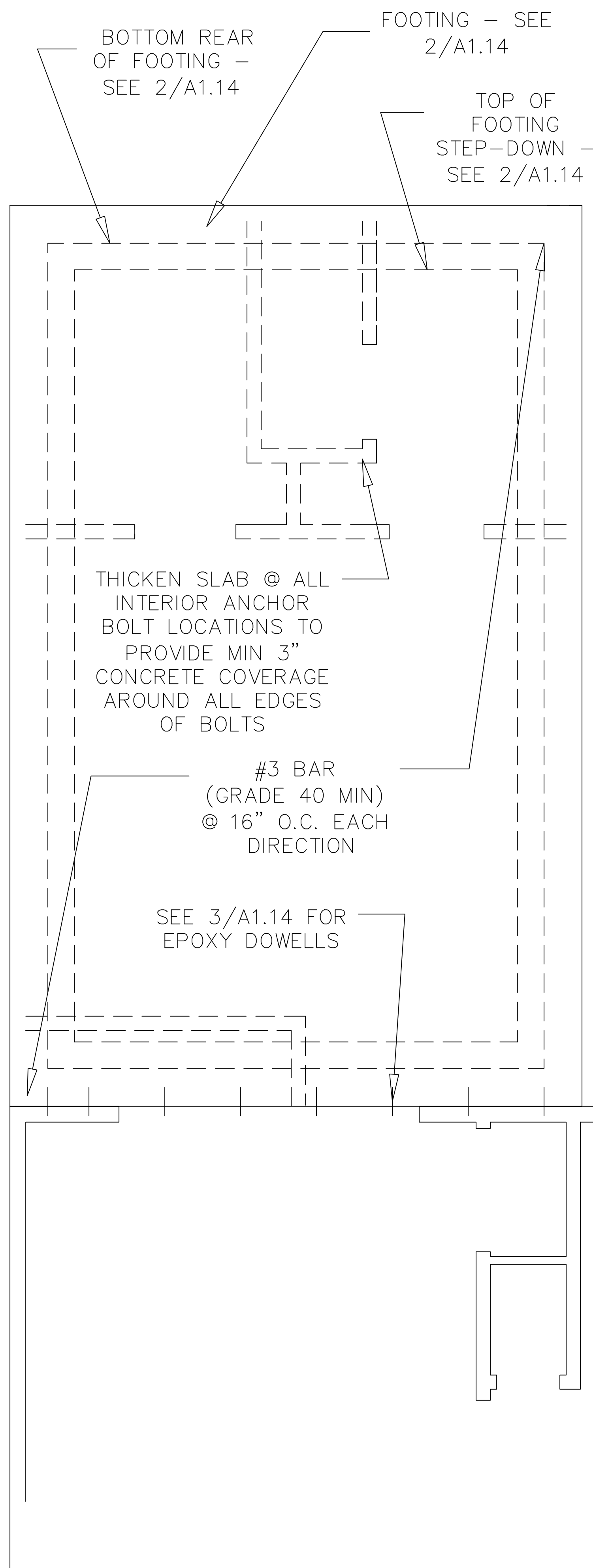
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FRAMING PLANS

A1.13



NOTES:

FINISH GRADE TO SLOPE AWAY FROM BUILDING

CAL GREEN CAPILLARY BREAK REQUIREMENT - A 4-INCH-THICK (102 MM) BASE OF 1/2 INCH (12.7 MM) OR LARGER CLEAN AGGREGATE SHALL BE PROVIDED WITH A VAPOR RETARDER IN DIRECT CONTACT WITH CONCRETE AND A CONCRETE MIX DESIGN, WHICH WILL ADDRESS BLEEDING, SHRINKAGE, AND CURLING, SHALL BE USED. FOR ADDITIONAL INFORMATION, SEE AMERICAN CONCRETE INSTITUTE, ACI 302.2R-06.

A 6-MIL (0.006 INCH; 152 MM) POLYETHYLENE OR APPROVED VAPOR RETARDER WITH JOINTS LAPPED NOT LESS THAN 6 INCHES (152 MM) SHALL BE PLACED BETWEEN THE CONCRETE FLOOR SLAB AND THE BASE COURSE OR THE PREPARED SUBGRADE WHERE NO BASE COURSE EXISTS.

FOOTING & SLAB TO BE POURED MONOLITHICALLY

FOOTING & SLAB CONCRETE 2500 PSI

SLUMP OF CONCRETE PLACED IN REMOVABLE FORMS SHALL NOT EXCEED 6 INCHES (152 MM).

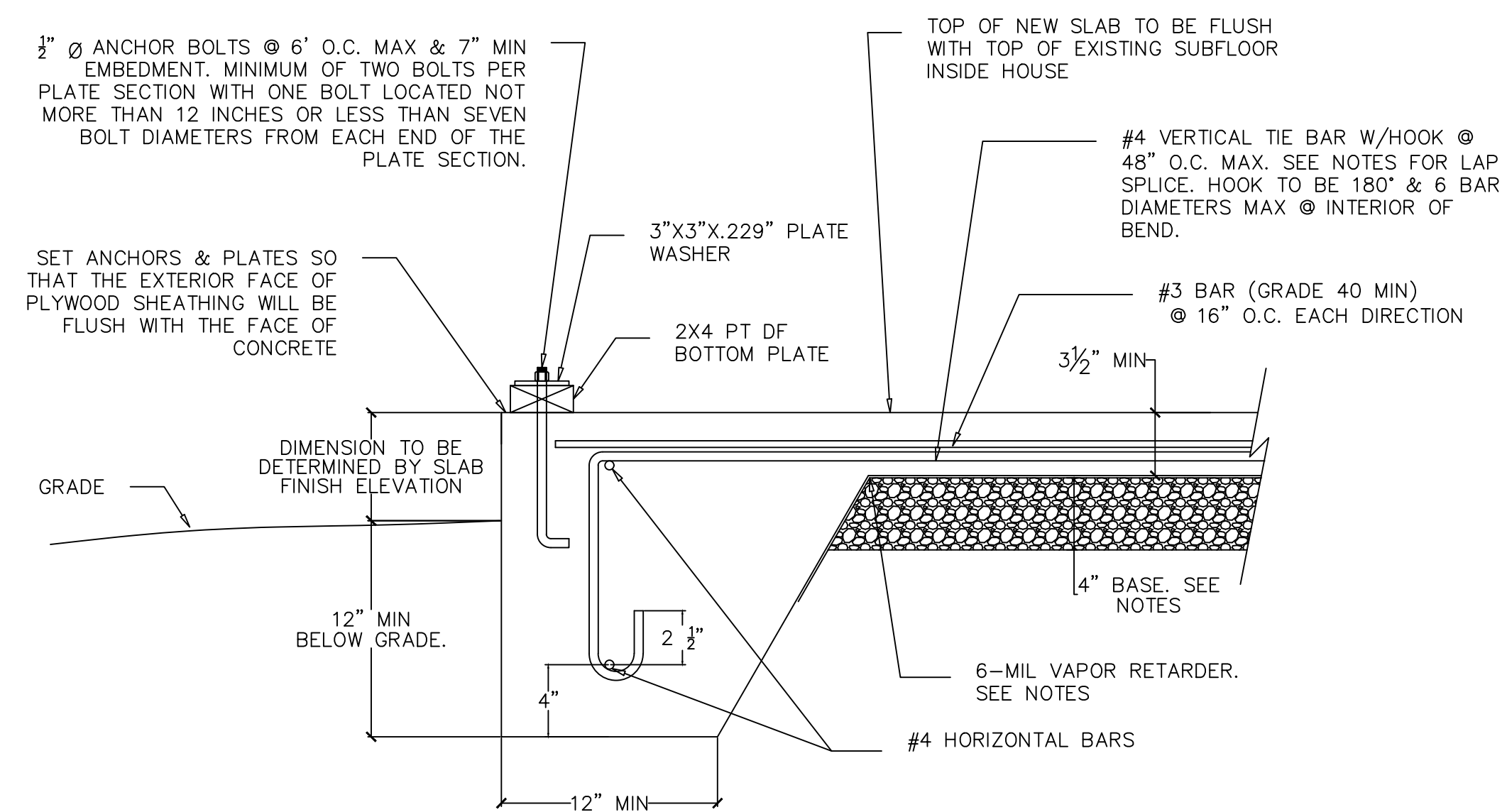
STEEL REINFORCEMENT LAP SPLICE LENGTH:

BAR SIZE	40 GRADE	60 GRADE
#3	21"	33"
#4	21"	33"
#5	26"	39"
#6	32"	47"

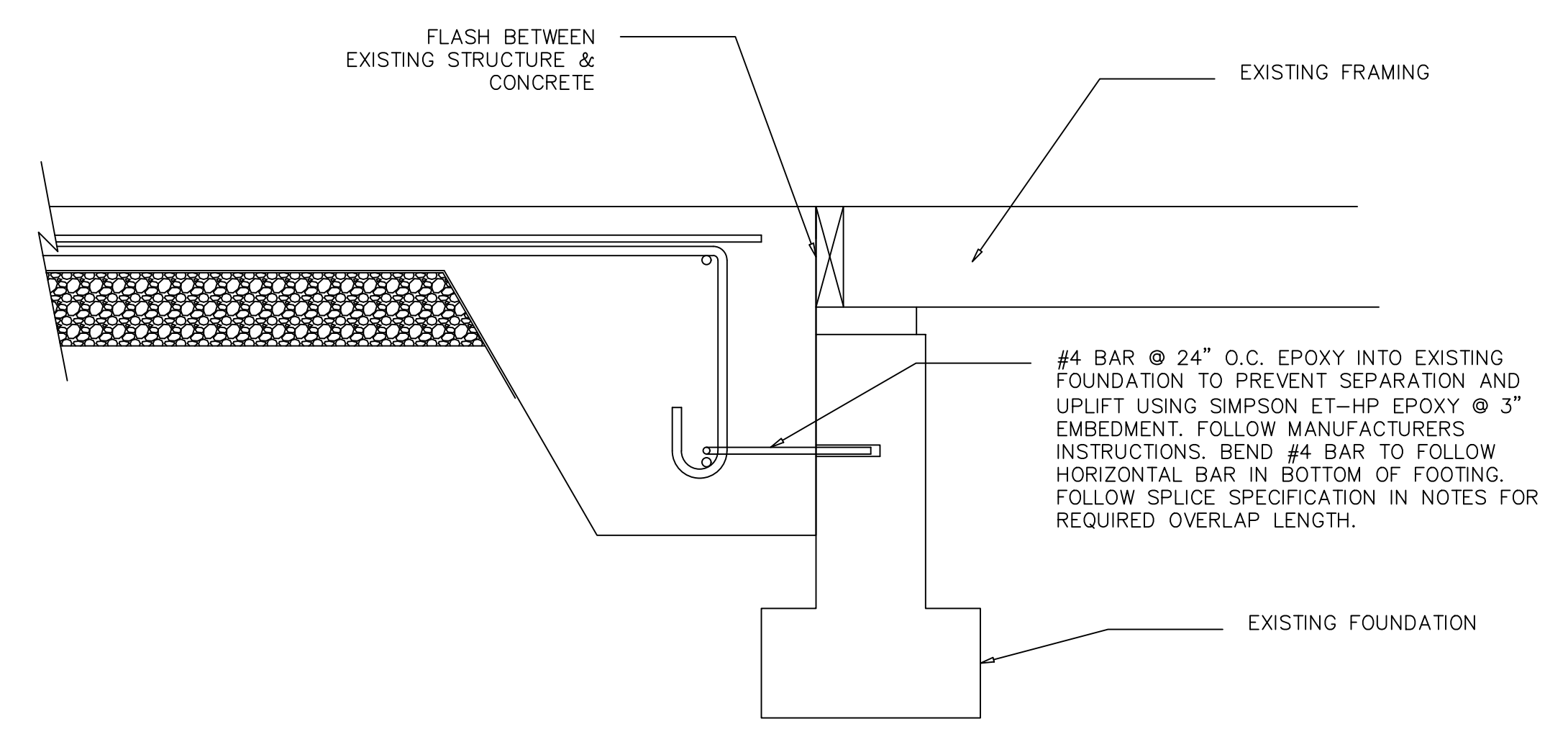
STEEL REINFORCEMENT SHALL BE SECURED IN THE PROPER LOCATION IN THE FORMS WITH TIE WIRE OR OTHER BAR SUPPORT SYSTEM TO PREVENT DISPLACEMENT DURING THE CONCRETE PLACEMENT OPERATION. STEEL REINFORCEMENT IN CONCRETE CAST AGAINST THE EARTH SHALL HAVE A MINIMUM COVER OF 3 INCHES (75 MM). MINIMUM COVER FOR REINFORCEMENT IN CONCRETE CAST IN REMOVABLE FORMS THAT WILL BE EXPOSED TO THE EARTH OR WEATHER SHALL BE 1 1/2 INCHES (38 MM) FOR NO. 5 BARS AND SMALLER, AND 2 INCHES (50 MM) FOR NO. 6 BARS AND LARGER. FOR CONCRETE CAST IN REMOVABLE FORMS THAT WILL NOT BE EXPOSED TO THE EARTH OR WEATHER, AND FOR CONCRETE CAST IN STAY-IN-PLACE FORMS, MINIMUM COVER SHALL BE 3/4 INCH (19 MM).

WHERE PROVIDED IN SLABS-ON-GROUND, REINFORCEMENT SHALL BE SUPPORTED TO REMAIN IN PLACE FROM THE CENTER TO UPPER ONE-THIRD OF THE SLAB FOR THE DURATION OF THE CONCRETE PLACEMENT.

THERE SHALL BE A MINIMUM OF TWO ANCHOR BOLTS PER PLATE SECTION WITH ONE BOLT LOCATED NOT MORE THAN 12 INCHES (305 MM) OR LESS THAN SEVEN BOLT DIAMETERS FROM EACH END OF THE PLATE SECTION.



2 FOOTING DETAIL
A1.14 NOT TO SCALE



3 DOWEL DETAIL
A1.14 NOT TO SCALE

Revision History	
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	DESIGN
	PERMIT SET
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▲	PLAN REVIEW COMMENTS

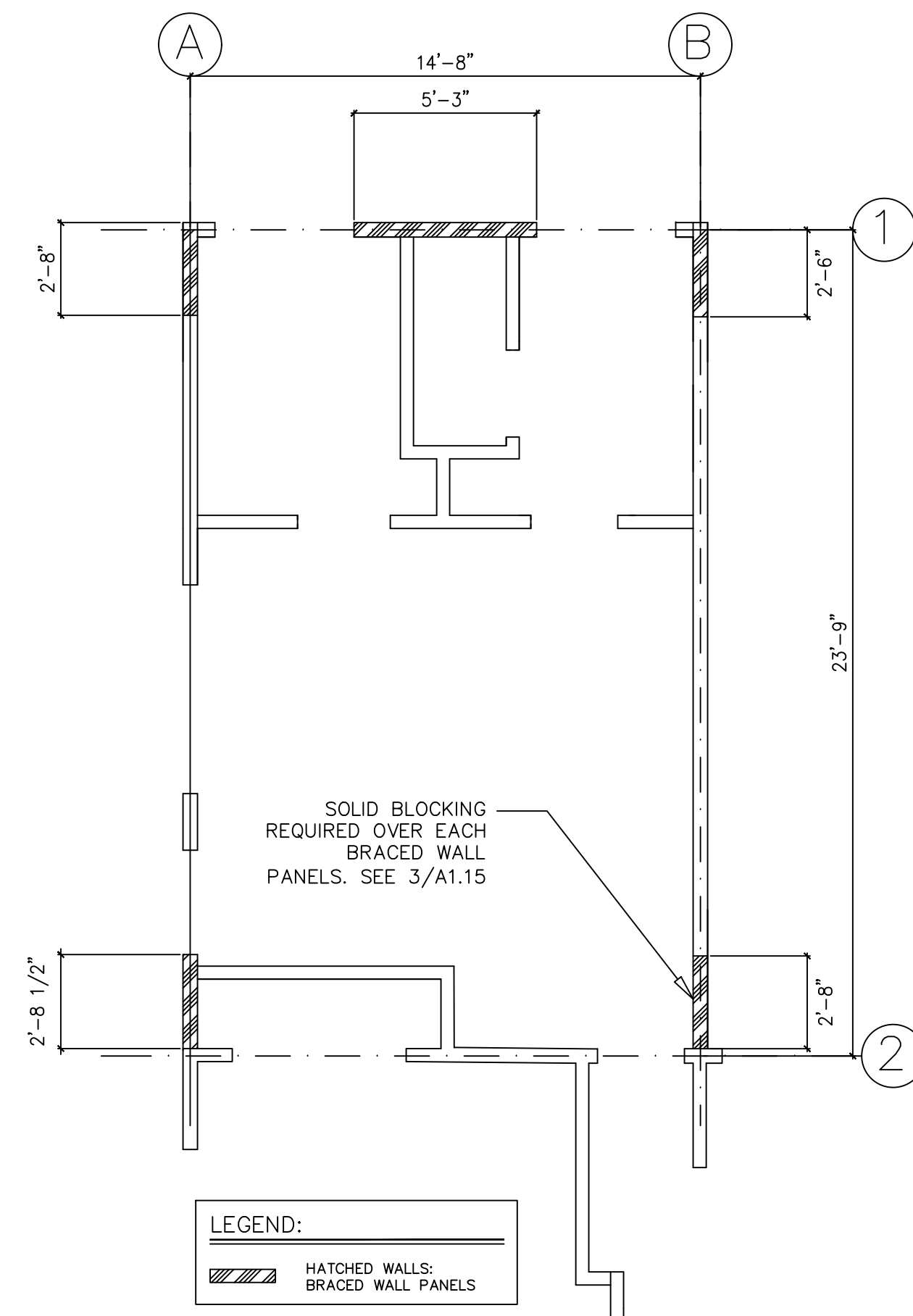
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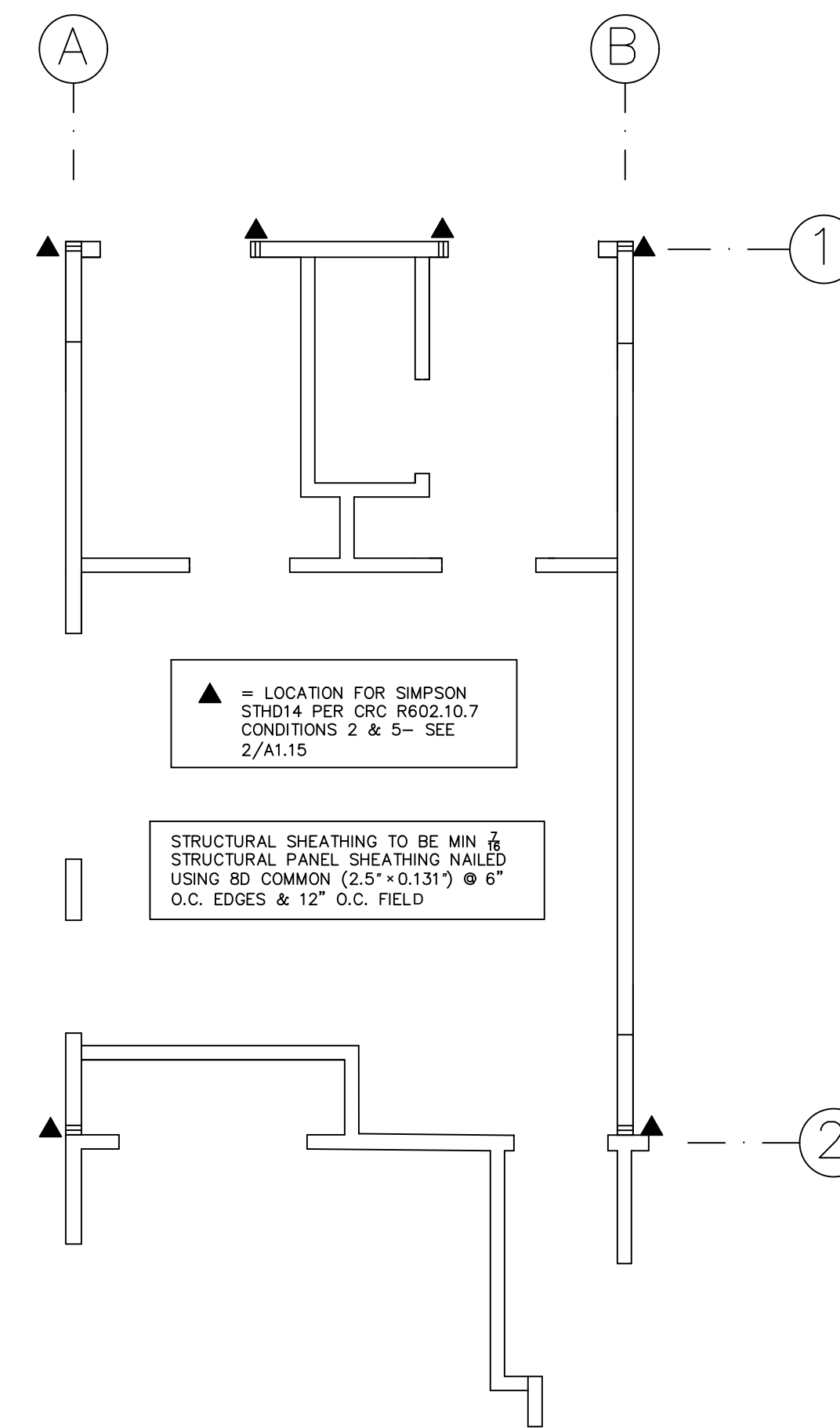
FOUNDATION PLAN

1 FOUNDATION PLAN
A1.14 SCALE: 1/2"=1'-0"

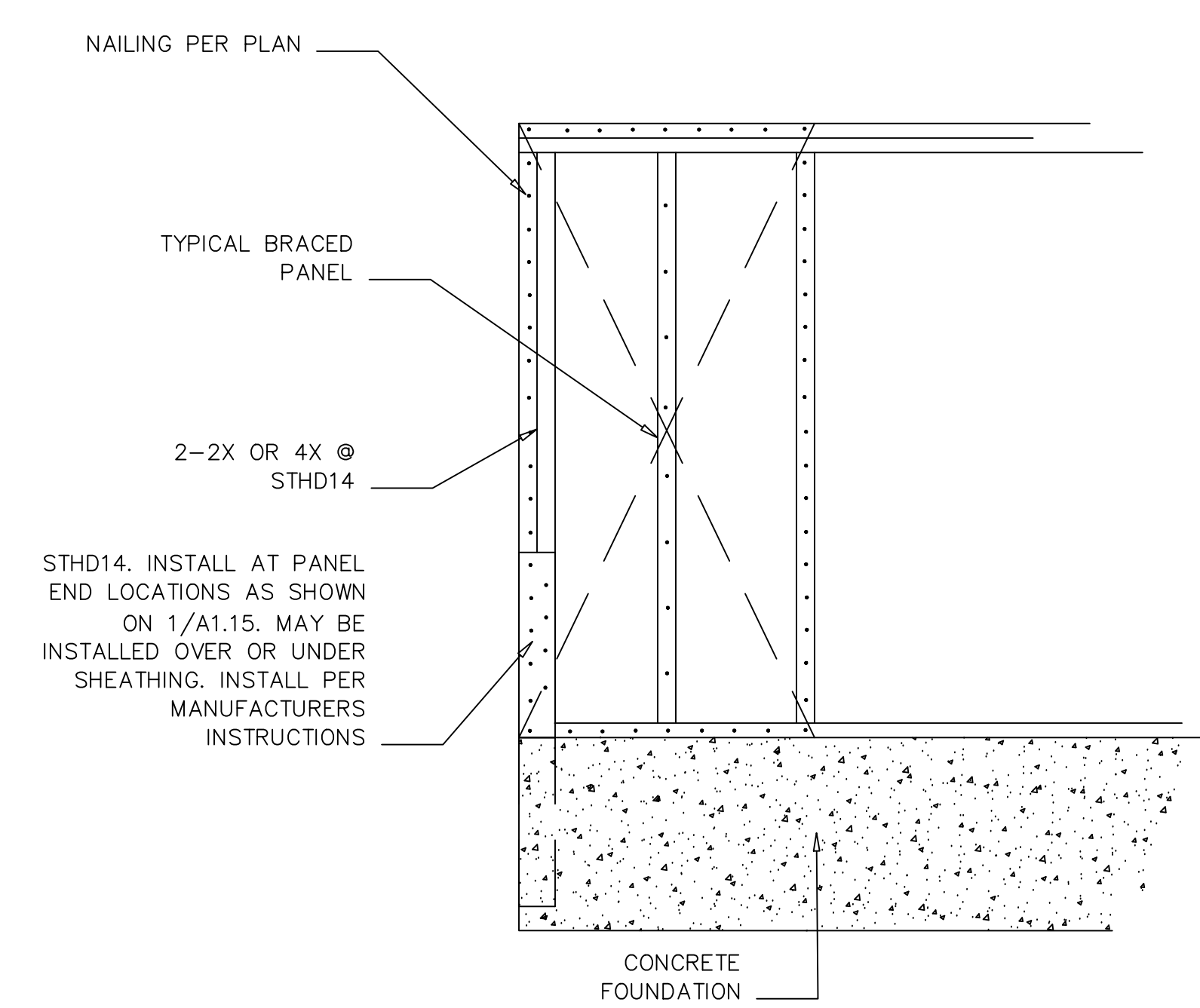
A1.14



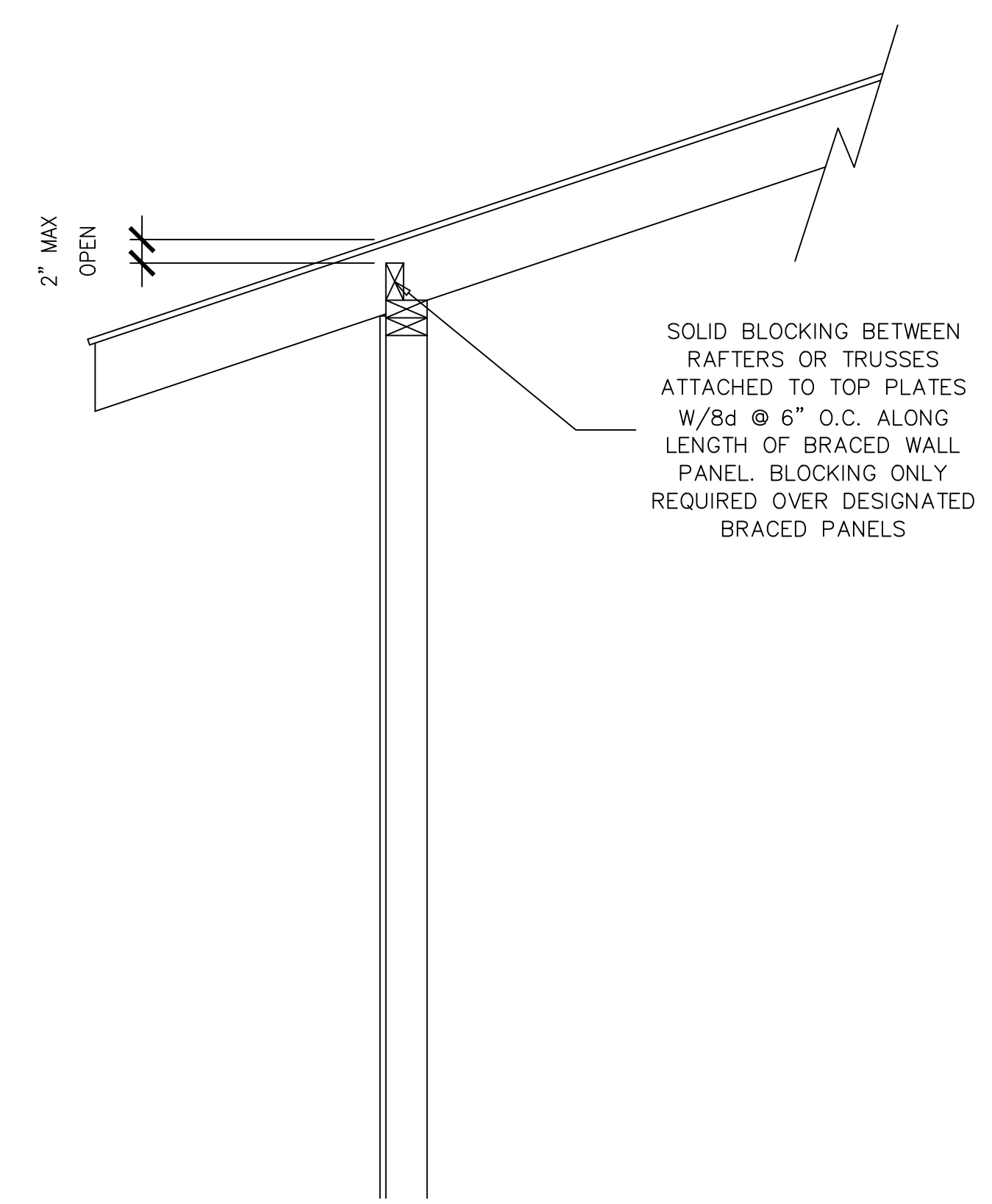
NOTES:
 WALL BRACING DETERMINED PER CRC SECTION R602.10. WALL LENGTH DETERMINED AS SPECIFIED USING THE GREATER VALUE DETERMINED FROM TABLE R602.10.3(1) OR R602.10.3(3) AND THE APPLICABLE ADJUSTMENT FACTORS IN TABLE R602.10.3(2) OR R602.10.3(4), RESPECTIVELY.
 CALCULATED BRACED WALL LENGTH = 4'3" PER BRACED WALL LINE
 STRUCTURAL SHEATHING TO BE MIN $\frac{5}{8}$ " STRUCTURAL PANEL SHEATHING NAILED USING 8D COMMON (2.5" x 0.131") @ 6" O.C. EDGES & 12" O.C. FIELD. FOLLOW MANUFACTURERS RECOMMENDATION REGARDING REQUIRED GAPS BETWEEN SHEETS. ENTIRE PERIMETER OF NEW STRUCTURE TO BE CONTINUOUSLY SHEATHED USING STRUCTURAL PANEL SHEATHING.
 VERTICAL JOINTS OF PANEL SHEATHING SHALL OCCUR OVER DOUBLE STUDS. WHERE ADJOINING PANEL EDGES ARE ATTACHED TO SEPARATE STUDS WITH THE REQUIRED PANEL EDGE FASTENING SCHEDULE, AND THE ADJACENT STUDS ARE ATTACHED TOGETHER WITH TWO ROWS OF 10D BOX NAILS [3 INCHES BY 0.128 INCH (76.2 MM BY 3.25 MM)] AT 10 INCHES O.C. (254 MM).
 WOOD STUD WALLS SHALL BE CAPPED WITH A DOUBLE TOP PLATE INSTALLED TO PROVIDE OVERLAPPING AT CORNERS AND INTERSECTIONS WITH BEARING PARTITIONS. END JOINTS IN TOP PLATES SHALL BE OFFSET NOT LESS THAN 24 INCHES (610 MM). JOINTS IN PLATES NEED NOT OCCUR OVER STUDS. PLATES SHALL BE NOT LESS THAN 2-INCHES (51 MM) NOMINAL THICKNESS AND HAVE A WIDTH NOT LESS THAN THE WIDTH OF THE STUDS. TOP PLATE LAP SPLICES @ BRACED WALL PANELS SHALL BE FACE-NAILED WITH NOT LESS THAN EIGHT 16D NAILS ON EACH SIDE OF THE SPLICE.
 SEE SHEET X/A5.1 FOR FRAMING NOTES AND DETAILS



1
 A1.15 BRACED WALL PLAN
 SCALE: 1/4"=1'-0"



2
 A1.15 BRACED PANEL DETAIL
 NOT TO SCALE



3
 A1.15 BLOCKING DETAIL
 NOT TO SCALE

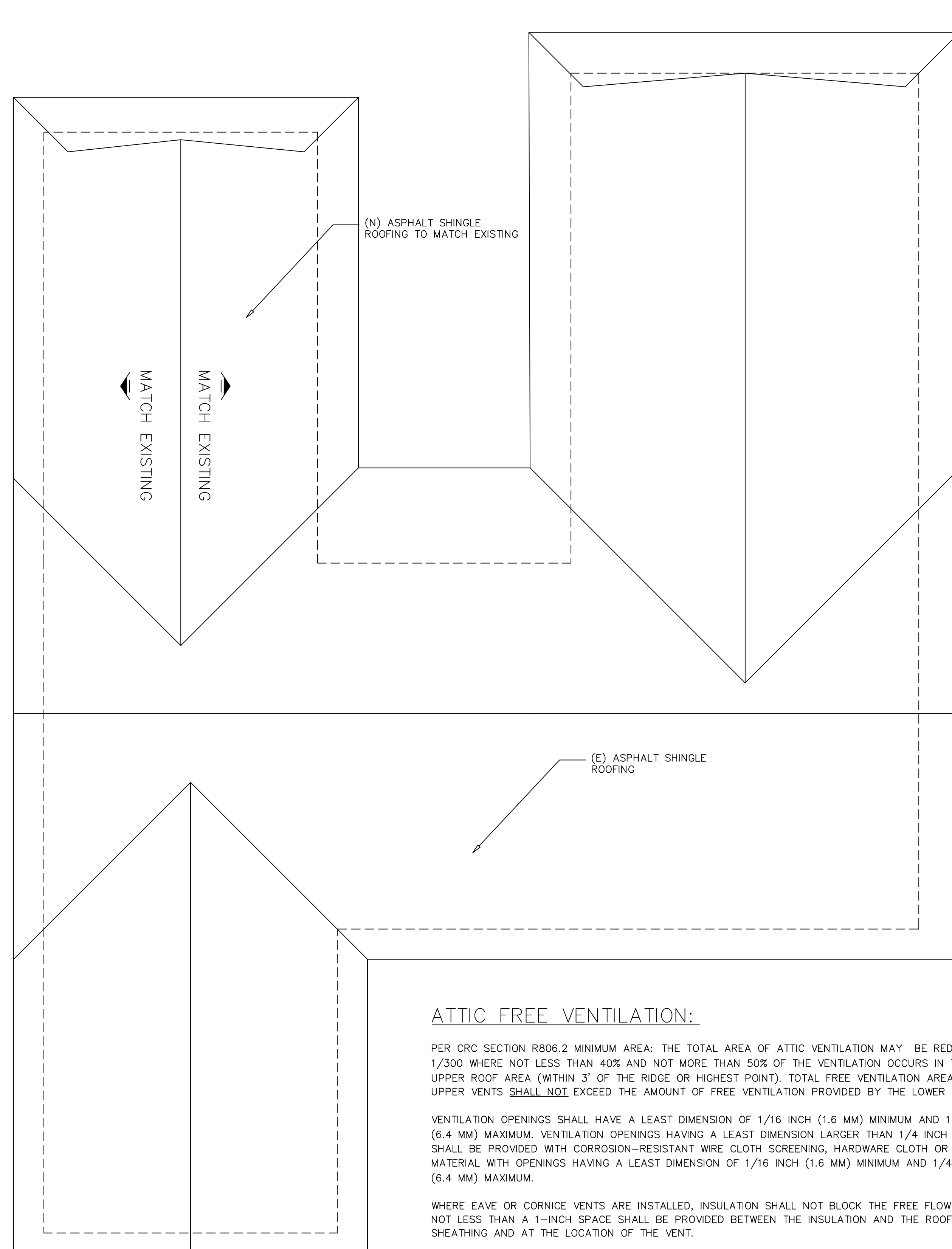
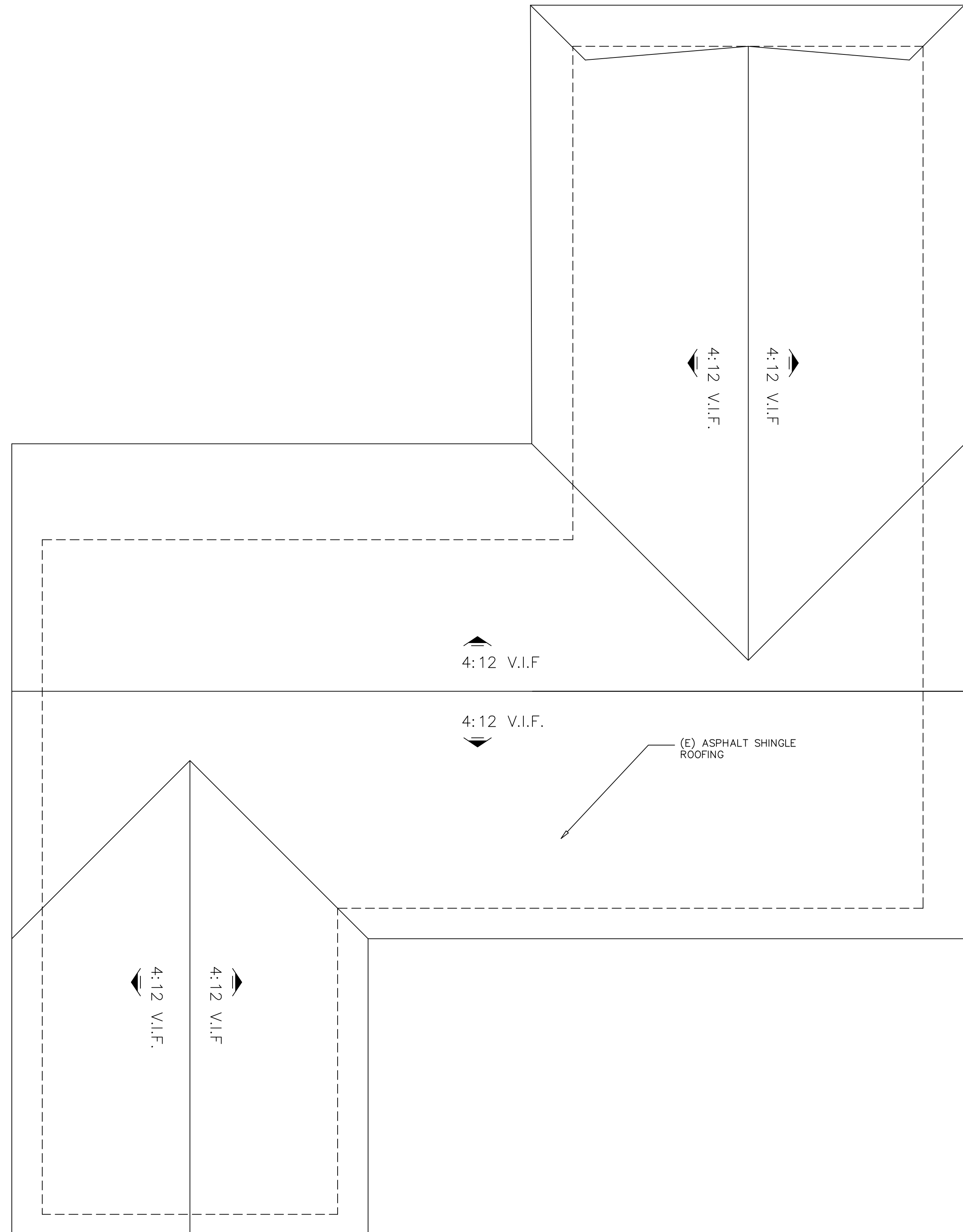
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	AS-BUILT
	PRELIMINARY DESIGN
	DESIGN
	PERMIT SET
▲	PLAN REVIEW COMMENTS
▲	PLAN REVIEW COMMENTS

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BRACED WALL PLAN

A1.15



ATTIC FREE VENTILATION:

PER CRC SECTION R806.2 MINIMUM AREA: THE TOTAL AREA OF ATTIC VENTILATION MAY BE REDUCED TO 1/300 WHERE NOT LESS THAN 40% AND NOT MORE THAN 50% OF THE VENTILATION OCCURS IN THE UPPER ROOF AREA (WITHIN 3' OF THE RIDGE OR HIGHEST POINT). TOTAL FREE VENTILATION AREA AT THE UPPER VENTS SHALL NOT EXCEED THE AMOUNT OF FREE VENTILATION PROVIDED BY THE LOWER VENTS.

VENTILATION OPENINGS SHALL HAVE A LEAST DIMENSION OF 1/16 INCH (1.6 MM) MINIMUM AND 1/4 INCH (6.4 MM) MAXIMUM. VENTILATION OPENINGS HAVING A LEAST DIMENSION LARGER THAN 1/4 INCH (6.4 MM) SHALL BE PROVIDED WITH CORROSION-RESISTANT WIRE CLOTH SCREENING, HARDWARE CLOTH OR SIMILAR MATERIAL WITH OPENINGS HAVING A LEAST DIMENSION OF 1/16 INCH (1.6 MM) MINIMUM AND 1/4 INCH (6.4 MM) MAXIMUM.

WHERE EAVE OR CORNICE VENTS ARE INSTALLED, INSULATION SHALL NOT BLOCK THE FREE FLOW OF AIR. NOT LESS THAN A 1-INCH SPACE SHALL BE PROVIDED BETWEEN THE INSULATION AND THE ROOF SHEATHING AND AT THE LOCATION OF THE VENT.

ADDITION ATTIC SQUARE FEET = 358 S.F.
 $358/300 \times 144 = 172$ SQ. IN. NET FREE VENTILATION AREA (N.F.V.A.) REQUIRED

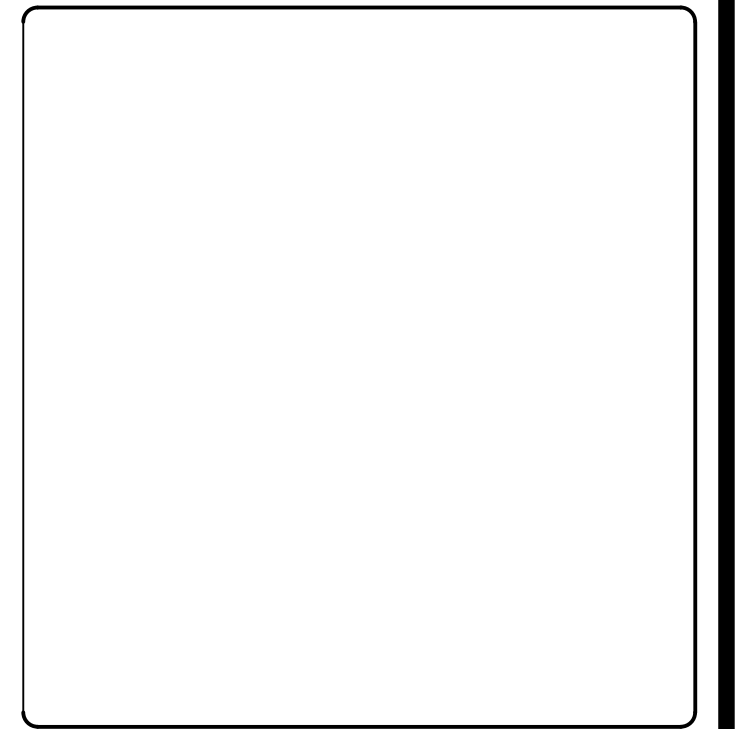
LOWER = 86 SQ. IN. REQUIRED

N.F.V.A 3" SCREENED (3" HOLE DRILLED IN BLOCK W/SCREEN STAPLED TO INSIDE FACE OF BLOCK) = 4.1 SQ. IN. EACH 21 VENTS (HOLES) REQUIRED. DISBURSED EVENLY AROUND THE PERIMETER OF THE INSULATED PORTION OF THE HOUSE.

UPPER = 86 SQ. IN. REQUIRED

ROOF VENTS:
 INSTALL WITHIN 3--FEET OF THE HIGHEST POINT OF ROOF. INSTALL A SUFFICIENT NUMBER OF UNITS TO PROVIDE A MINIMUM TOTAL OF 86 SQ. IN. OF FREE VENTILATION. TOTAL FREE VENTILATION AT THE ROOF VENTS SHALL NOT EXCEED THE AMOUNT OF FREE VENTILATION PROVIDED BY THE FREEZE BLOCK VENTING (INSTALL MORE LOWER VENTS IF NEEDED). FREEZE BLOCK VENTING MUST BE EQUAL TO OR GREATER THAN ROOF VENTING

Revision History	
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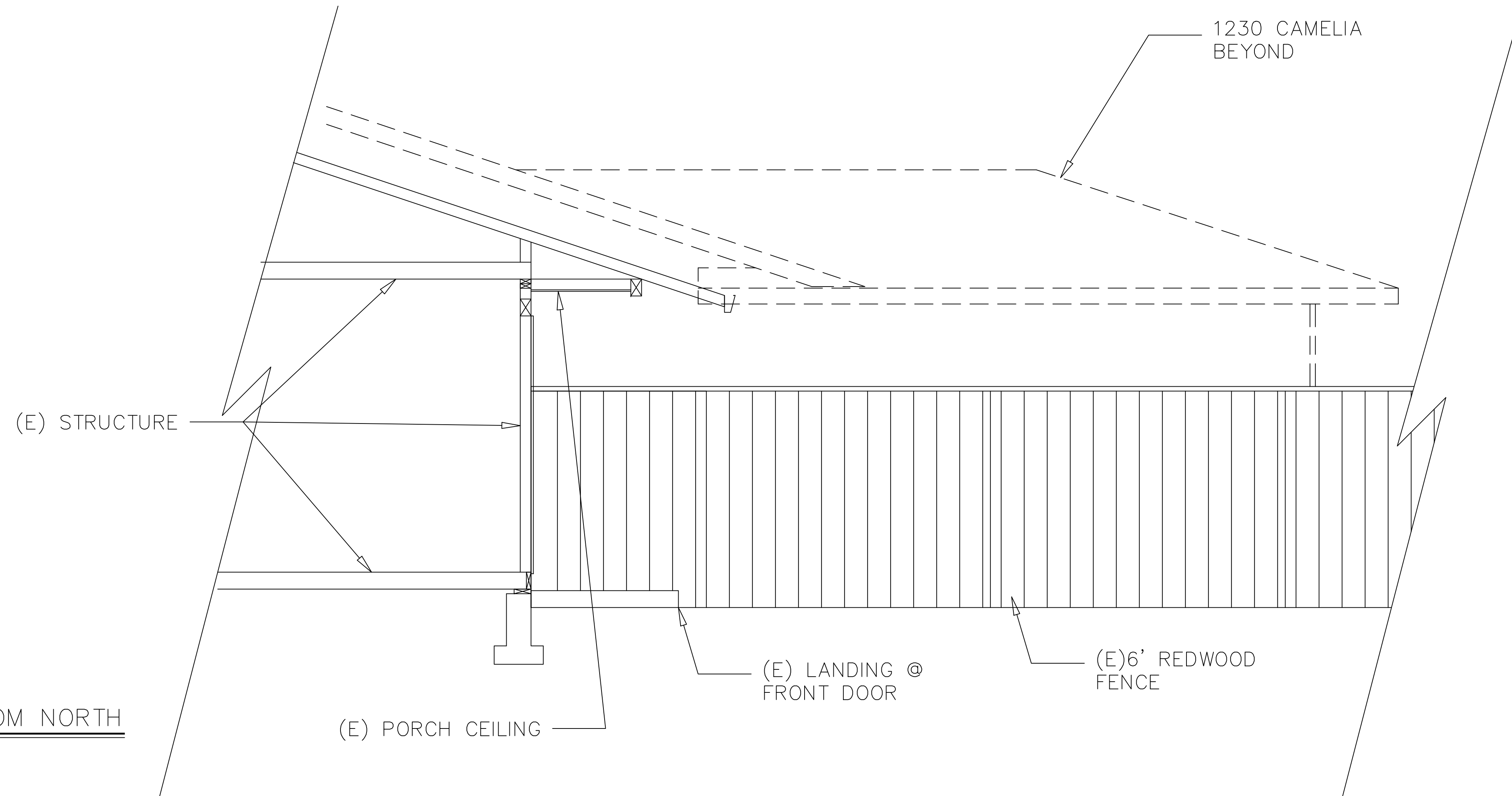


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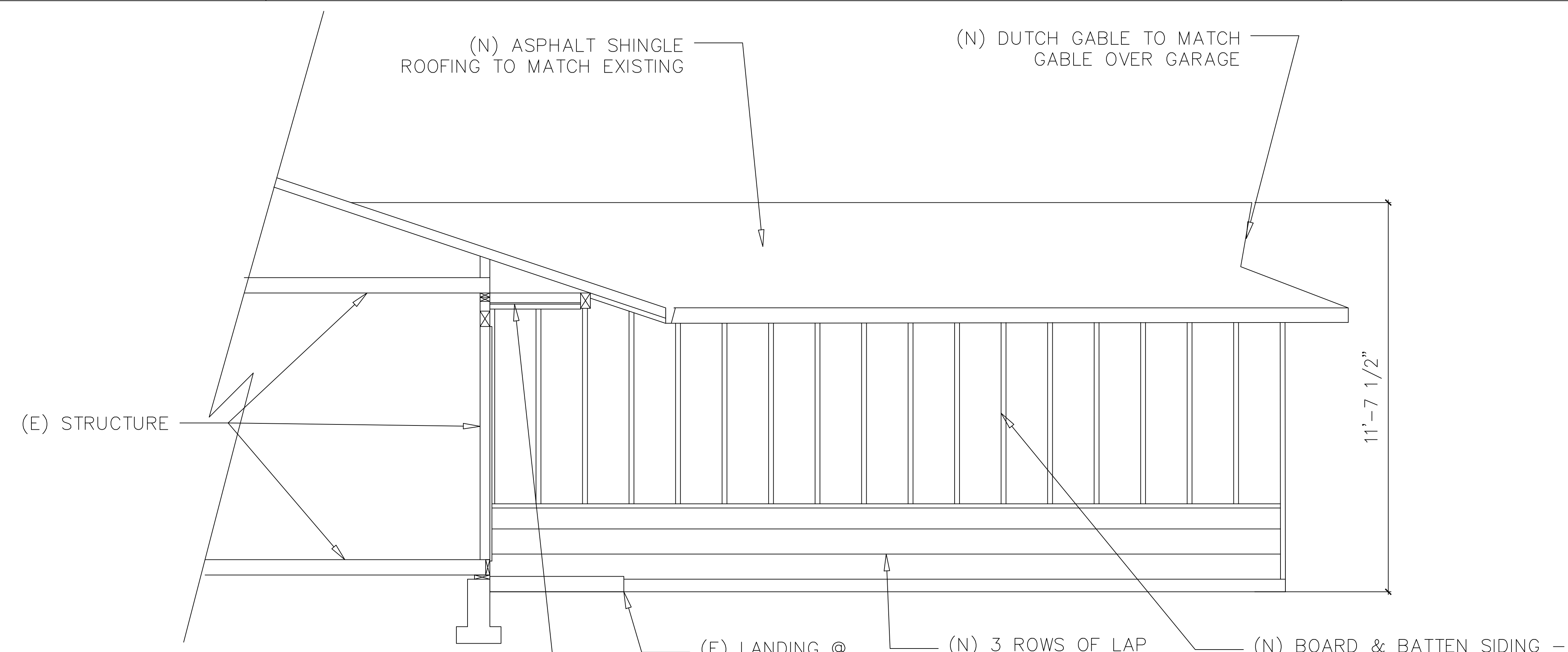
ROOF PLAN

A1.30



1
A3.1

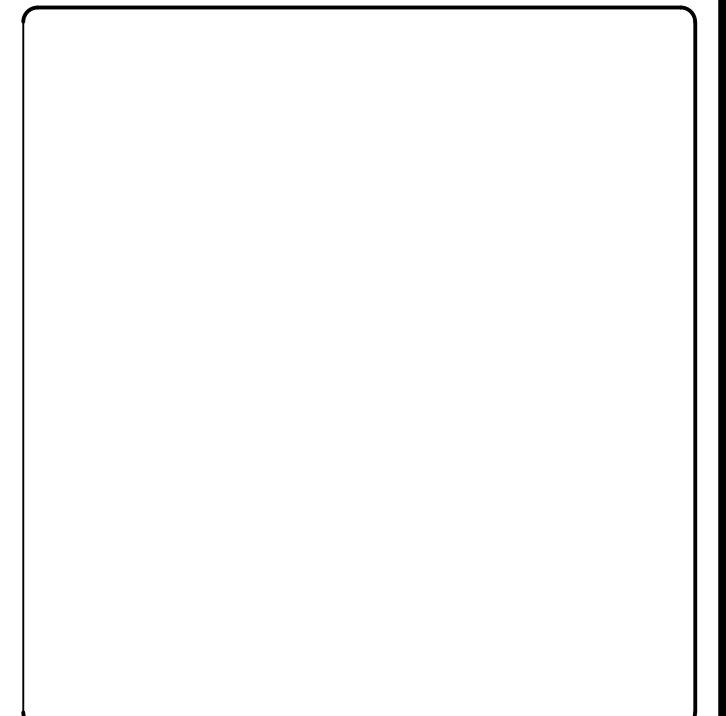
(E) ELEVATION FROM NORTH
SCALE: 1/2"=1'-0"



2
A3.1

(N) ELEVATION FROM NORTH
SCALE: 1/2"=1'-0"

Revision History	
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	DESIGN
	PERMIT SET
▲	PLAN REVIEW COMMENTS
▲	PLAN REVIEW COMMENTS



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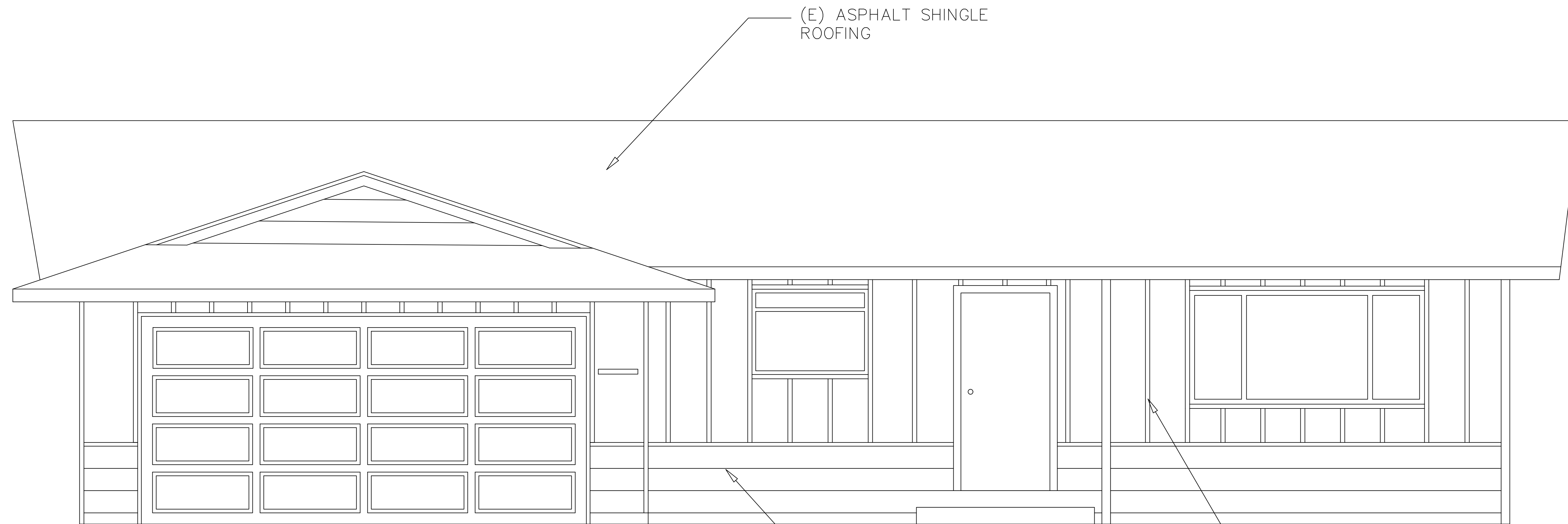
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ELEVATIONS
NORTH

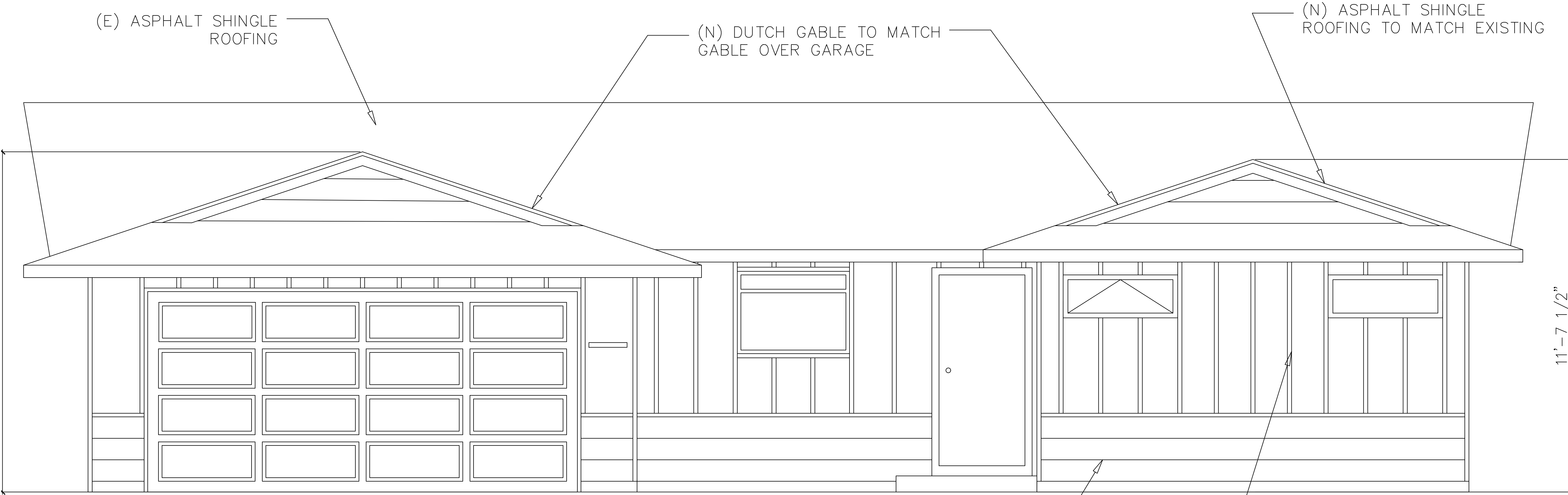
A3.1



1
A3.2 (E) ELEVATION FROM WEST
SCALE: 1/2"=1'-0"

(E) 3 ROWS OF LAP SIDING @ 9" EXPOSURE

(E) BOARD & BATTEN SIDING - SPACING VARIES SLIGHTLY AROUND 16" O.C.

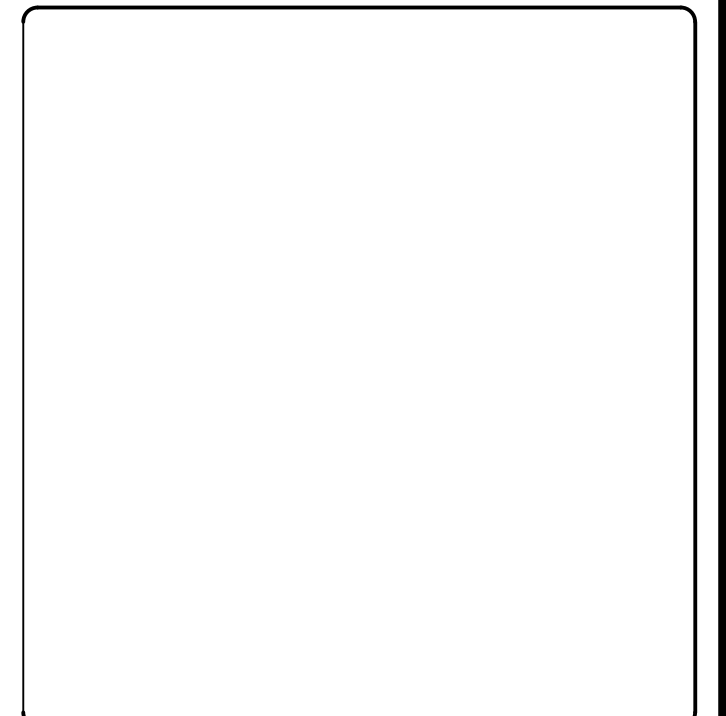


2
A3.2 (N) ELEVATION FROM WEST
SCALE: 1/2"=1'-0"

(N) 3 ROWS OF LAP SIDING @ 9" EXPOSURE

(N) BOARD & BATTEN SIDING - SPACING VARIES SLIGHTLY AROUND 16" O.C.

Revision History	
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	DESIGN
	PERMIT SET
▲	PLAN REVIEW COMMENTS
▲	PLAN REVIEW COMMENTS



REMODEL & ADDITION

OWNER:

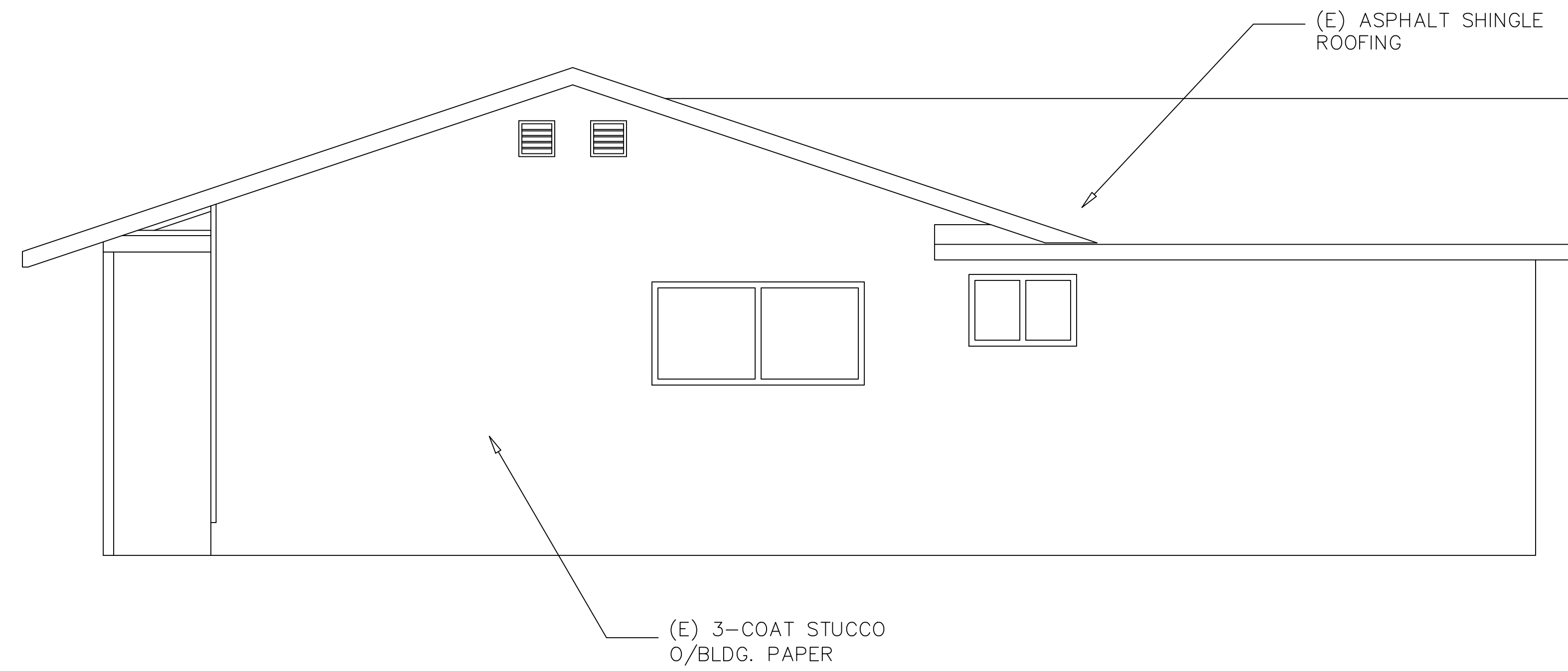
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Peter Christopher Klimen
DIGITALLY SIGNED BY PETER CHRISTOPHER KLIMEN
EMAIL: KLIMEN@ATT.NET DATE: 00/00/00

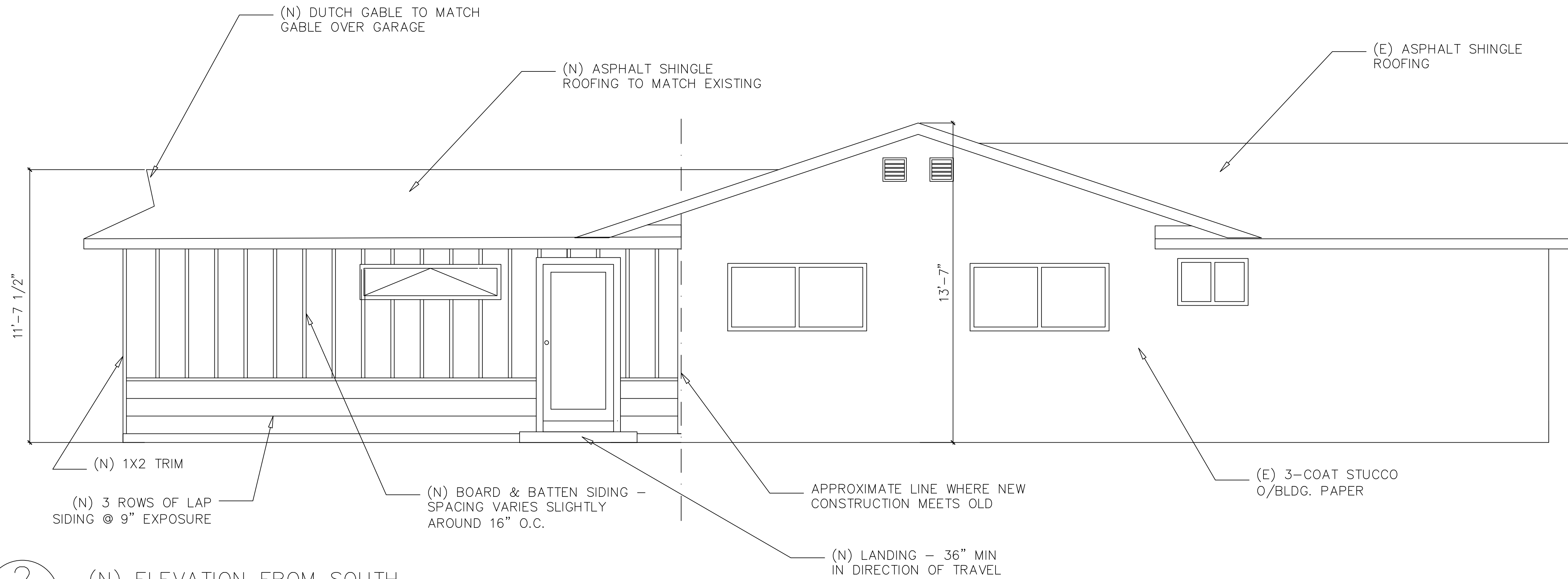
ELEVATIONS
WEST

A3.2

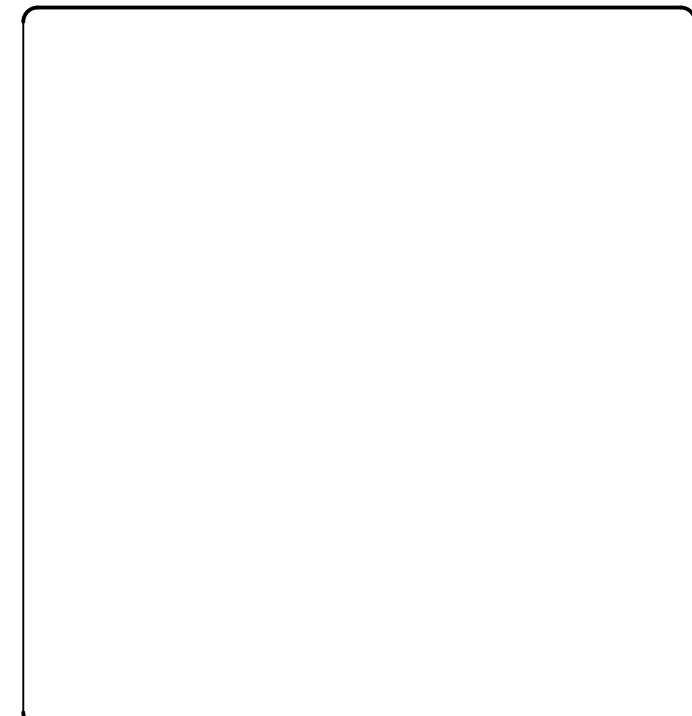
Revision History	
	AS-BUILT
	PRELIMINARY DESIGN
	DESIGN
	PERMIT SET
▲	PLAN REVIEW COMMENTS
▲	PLAN REVIEW COMMENTS



1
A3.3 (E) ELEVATION FROM SOUTH
SCALE: 3/8"=1'-0"



2
A3.3 (N) ELEVATION FROM SOUTH
SCALE: 3/8"=1'-0"



REMODEL & ADDITION

OWNER:

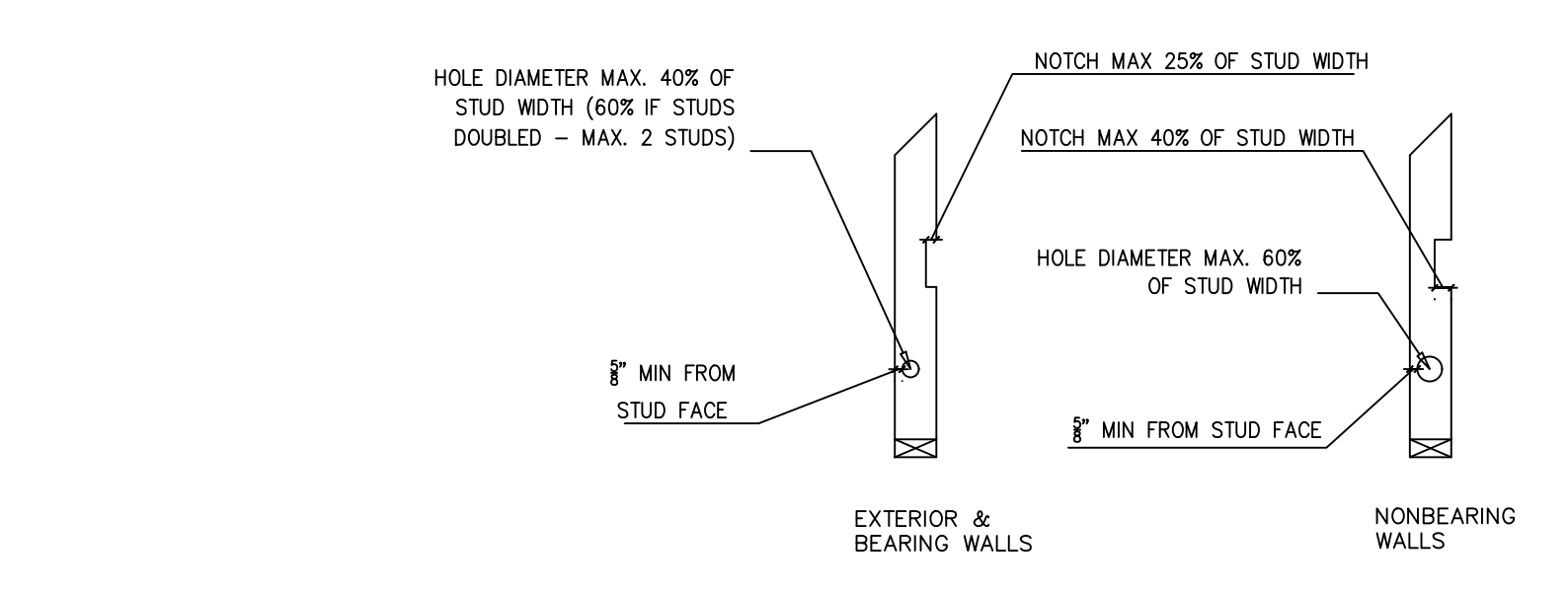
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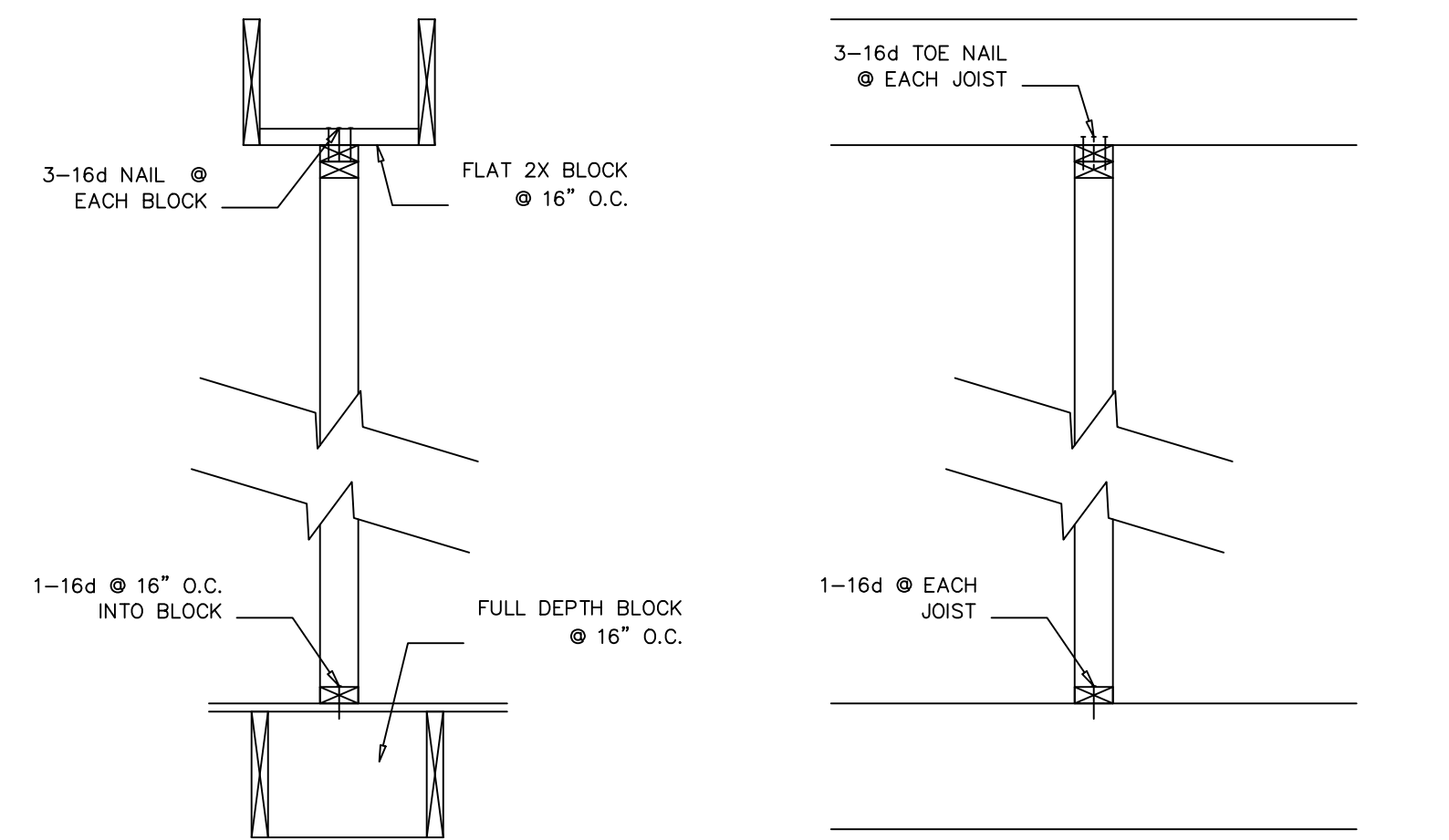
ELEVATIONS
SOUTH

A3.3

2016 CALIFORNIA BUILDING CODE					
TABLE 2304.10.1 FASTENING SCHEDULE					
CONNECTION	FASTENING _{o,m}	LOCATION	CONNECTION	FASTENING _{o,m}	LOCATION
1. JOIST TO SILL OR GIRDER	3-8d COMMON (25 ^o x 0.131") 3-3" x 0.131" NAILS 3-3" 14 GAGE STAPLES	TODENAL	20. 1" DIAGONAL BRACE TO EACH STUD AND PLATE	2-8d COMMON (25 ^o x 0.131") 2-3" x 0.131" NAILS 3-3" 14 GAGE STAPLES	FACE NAIL
2. BRIDGING TO JOIST	2-8d COMMON (25 ^o x 0.131") 2-3" x 0.131" NAILS 2-3" 14 GAGE STAPLES	TODENAL EACH END	21. 1" x 6" SHEATHING TO EACH BEARING	3-8d COMMON (25 ^o x 0.131")	FACE NAIL
3. 1" x 6" SUBFLOOR OR LESS TO EACH JOIST	2-8d COMMON (25 ^o x 0.131")	FACE NAIL	22. WIDER THAN 1" x 6" SHEATHING TO EACH BEARING	3-8d COMMON (25 ^o x 0.131")	FACE NAIL
4. WIDER THAN 1" x 6" SUBFLOOR TO EA. JOIST	3-8d COMMON (25 ^o x 0.131")	FACE NAIL	23. BUILT-UP CORNER STUDS	16d COMMON (35 ^o x 0.162") 3" x 0.131" NAILS 3" 14 GAGE STAPLE	24" O.C. 16" O.C. 16" O.C.
5. 2" SUBFLOOR TO JOIST OR GIRDER	2-16d COMMON (35 ^o x 0.162")	BLIND AND FACE NAIL	24. BUILT-UP GIRDER AND BEAMS	20d COMMON (4" x 0.192") 32" O.C. 3" x 0.131" NAIL AT 24" O.C. 3" 14 GAGE STAPLE AT 24" O.C.	FACE NAIL AT TAB STAGGERED ON OPPOSITE SIDES
6. SOLE PLATE TO JOIST OR BRACING	16d (35 ^o x 0.131") AT 16" O.C. 3" x 0.131" NAILS AT 8" O.C. 3" 14 GAGE STAPLES AT 12" O.C.	TYPICAL FACE NAIL	25. 2" PLANKS	2-20d COMMON (4" x 0.192") 3-3" x 0.131" NAILS 3-3" 14 GAGE STAPLES	FACE NAIL AT ENDS AND AT EACH SPICE
7. TOP PLATE TO STUD	2-16d COMMON (35 ^o x 0.162") 3-3" x 0.131" NAILS 3-3" 14 GAGE STAPLES	END NAIL	26. COLLAR TIE TO RAFTER	3-10d COMMON (3" x 0.148") 4-3" x 0.131" NAILS 4-3" 14 GAGE STAPLES	AT EACH BEARING
8. STUD TO SOLE PLATE	4-8d COMMON (25 ^o x 0.131") 4-3" x 0.131" NAILS 3-3" 14 GAGE STAPLES	TODENAL	27. JACK RAFTER TO HP	3-10d COMMON (3" x 0.148") 4-3" x 0.131" NAILS 4-3" 14 GAGE STAPLES	TODENAL
9. DOUBLE STUDS	2-16d COMMON (35 ^o x 0.162") 3-3" x 0.131" NAILS 3-3" 14 GAGE STAPLES	END NAIL	28. ROOF RAFTER TO 2-BY RIDGE BEAM	2-16d COMMON (35 ^o x 0.162") 3-3" x 0.131" NAILS 3-3" 14 GAGE STAPLES	FACE NAIL
10. DOUBLE TOP PLATES	16d (35 ^o x 0.131") AT 16" O.C. 3" x 0.131" NAIL AT 12" O.C. 3" 14 GAGE STAPLE AT 12" O.C.	TYPICAL FACE NAIL	29. JOIST TO BAND JOIST	3-16d COMMON (35 ^o x 0.162") 4-3" x 0.131" NAILS 4-3" 14 GAGE STAPLES	FACE NAIL
11. DOUBLE TOP PLATES	2-16d COMMON (35 ^o x 0.162") 12-3" x 0.131" NAILS 12-3" 14 GAGE STAPLES	LAP SPICE PER SIDE	30. LEDGER STRIP	3-16d COMMON (35 ^o x 0.162") 4-3" x 0.131" NAILS 4-3" 14 GAGE STAPLES	FACE NAIL
12. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	3-8d COMMON (25 ^o x 0.131") 3-3" x 0.131" NAILS 3-3" 14 GAGE STAPLES	TODENAL	31. WOOD STRUCTURAL PANELS AND PARTICLEBOARD, SUBFLOOR, ROOF AND WALL SHEATHING (TO FRAMING)	1/2" AND LESS 6d 28 ^o x 0.113" NAIL 1 1/2" 18 GAGE	
13. RM JOIST TO TOP PLATE	8d (25 ^o x 0.131") AT 8" O.C. 3" x 0.131" NAIL AT 8" O.C. 3" 14 GAGE STAPLE AT 8" O.C.	TODENAL		3/4" TO 3/8" 8d OR 8d 28 ^o x 0.113" NAIL 2" 18 GAGE	
14. TOP PLATES, LAPS AND INTERSECTIONS	2-16d COMMON (35 ^o x 0.162") 3-3" x 0.131" NAILS 3-3" 14 GAGE STAPLES	FACE NAIL		3/8" TO 1" 10d OR 8d	
15. CONTINUOUS HEADER, TWO PIECES	16d COMMON (35 ^o x 0.162")	16" O.C. ALONG EDGE		1/2" OR LESS 6d 10d OR 8d	
16. CEILING JOISTS TO PLATE	3-8d COMMON (25 ^o x 0.131") 3-3" x 0.131" NAILS 3-3" 14 GAGE STAPLES	TODENAL	32. PANEL SIDING (TO FRAMING)	1/2" OR LESS 6d 8d	
17. CONTINUOUS HEADER TO STUD	4-8d COMMON (2" x 0.131")	TODENAL	33. FIBERBOARD SHEATHING	1/2"	NO.11 GAGE ROOFING NAIL 8d COMMON NAIL (7" x 0.113") NO.18 GAGE STAPLE
18. CEILING JOISTS, LAPS OVER PARTITIONS (SEE SECTION 2308.10.4.1, TABLE 2308.10.4.1)	3-16d COMMON (35 ^o x 0.162") MINIMUM, TABLE 2308.10.4.1 4-3" x 0.131" NAILS 4-3" 14 GAGE STAPLES	FACE NAIL		1/2"	NO.11 GAGE ROOFING NAIL 8d COMMON NAIL (7" x 0.113") NO.18 GAGE STAPLE
19. CEILING JOISTS TO PARALLEL RAFTERS (SEE SECTION 2308.10.4.1, TABLE 2308.10.4.1)	3-16d COMMON (35 ^o x 0.162") MINIMUM, TABLE 2308.10.4.1 4-3" x 0.131" NAILS 4-3" 14 GAGE STAPLES	FACE NAIL		1/2"	NO.11 GAGE ROOFING NAIL 8d COMMON NAIL (7" x 0.113") NO.18 GAGE STAPLE
20. RAFTERS TO PLATE (SEE SECTION 2308.10.1, TABLE 2308.10.1)	3-8d COMMON (25 ^o x 0.131") 3-3" x 0.131" NAILS 3-3" 14 GAGE STAPLES	TODENAL	34. INTERIOR PANELING	1/2" 3/8"	4d 6d



BORING & NOTCHING OF STUDS

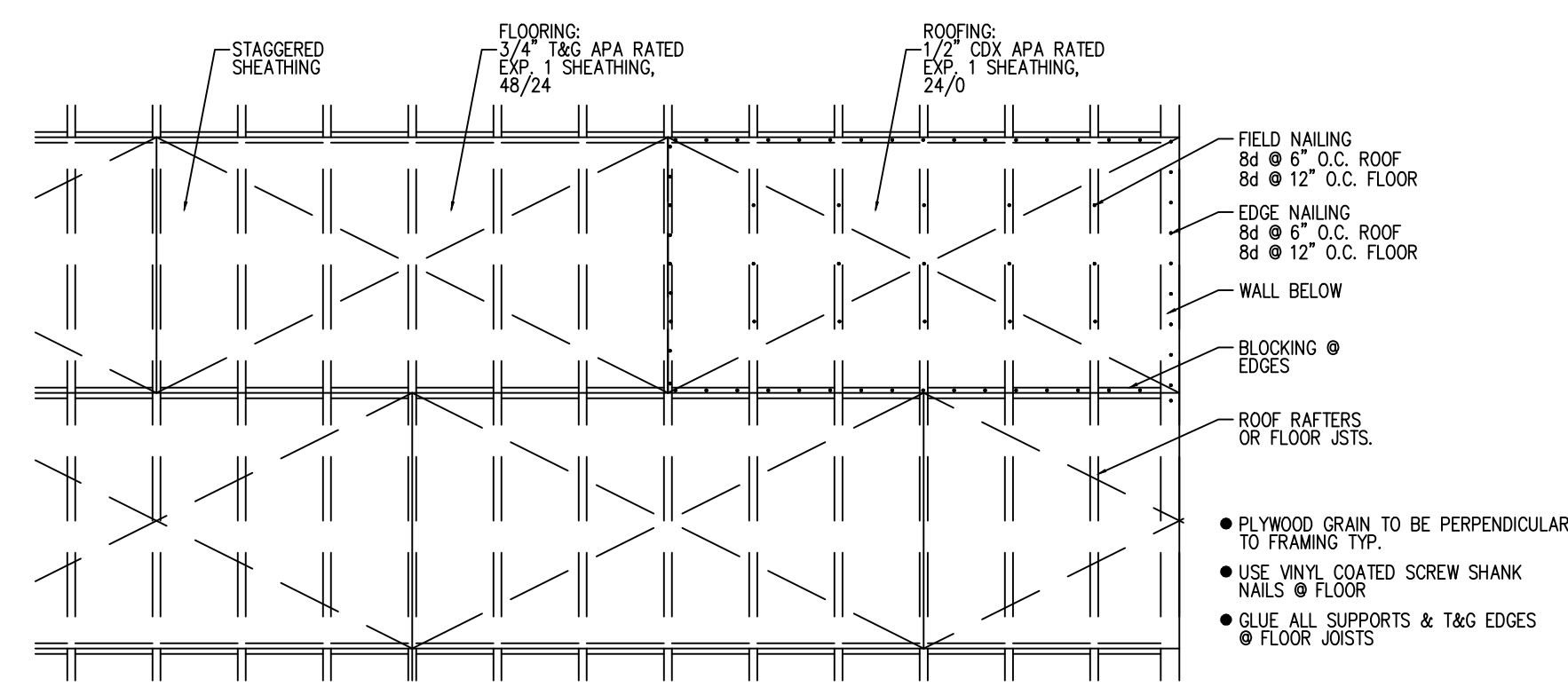
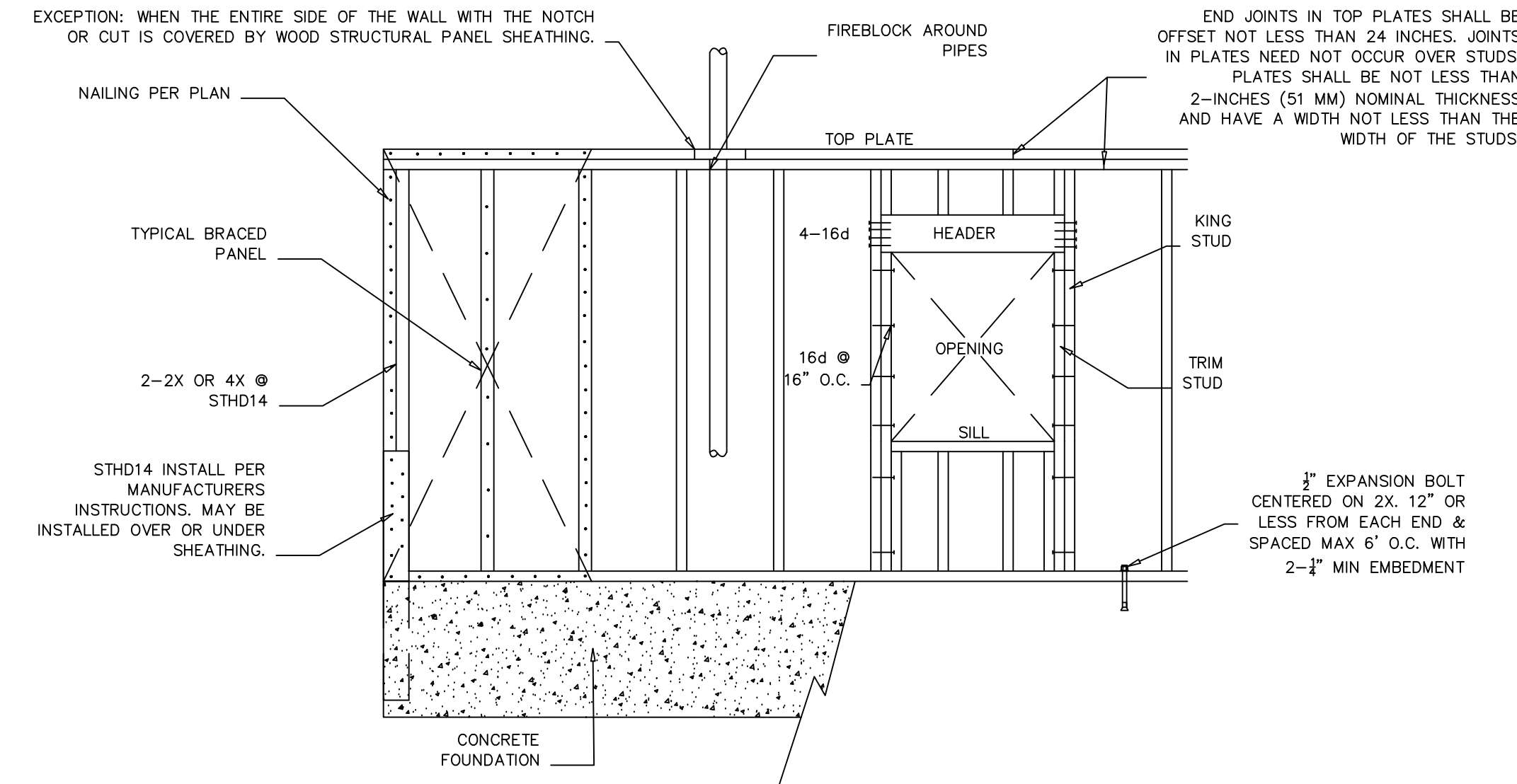


FRAMING PARALLEL TO JOIST

FRAMING PERPENDICULAR TO JOIST

HEADER SPAN (FEET)	MAXIMUM STUD SPACING	
	16"	24"
≤ 3'	1	1
4'	2	1
8'	3	2
12'	5	3
16'	6	4

WHEN PIPING OR DUCTWORK IS PLACED IN OR PARTLY IN AN EXTERIOR WALL OR INTERIOR LOAD-BEARING WALL, NECESSITATING CUTTING, DRILLING OR NOTCHING OF THE TOP PLATE BY MORE THAN 50 PERCENT OF ITS WIDTH, A GALVANIZED METAL TIE NOT LESS THAN 0.054 INCH THICK (16 GA) AND 1/2 INCHES WIDE SHALL BE FASTENED ACROSS AND TO THE PLATE AT EACH SIDE OF THE OPENING WITH NOT LESS THAN EIGHT 100 (0.148 INCH DIAMETER) NAILS HAVING A MINIMUM LENGTH OF 1 1/2 INCHES AT EACH SIDE OR EQUIVALENT. THE METAL TIE MUST EXTEND A MINIMUM OF 6 INCHES PAST THE OPENING.



ROOF & SUBFLOOR NAILING SCHEDULE

1
A5.1
FRAMING NOTES & DETAILS
NOT TO SCALE

NO.	DESCRIPTION
	AS-BUILT
	PRELIMINARY DESIGN
	DESIGN
	PERMIT SET
1	PLAN REVIEW COMMENTS
2	PLAN REVIEW COMMENTS

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2
A5.1
DOOR & WINDOW SCHEDULES
NOT TO SCALE

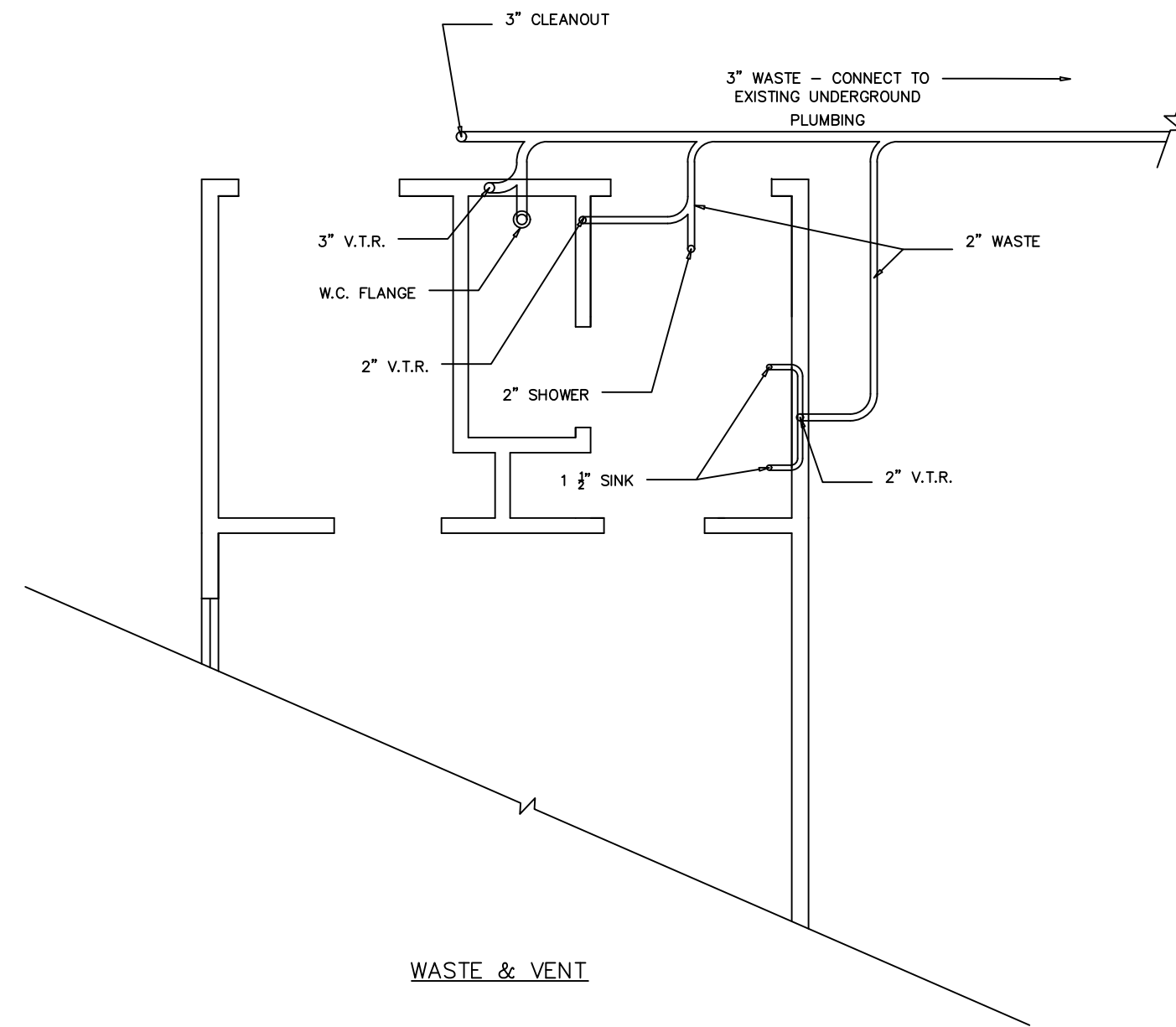
MARK	WIDTH	HEIGHT	TYPE	HEAD	JAMB	SILL	NOTES
1	5'-0"	3'-0"	SLIDER	4X12 #1	2 TRIMMERS & 2 KING STUDS PER SIDE	SINGLE 2X4	
2	6'-0"	1'-6"	AWNING	4X12 #1	2 TRIMMERS & 2 KING STUDS PER SIDE	SINGLE 2X4	
3	4'-0"	1'-6"	FIXED	4X12 #1	2 TRIMMERS PER SIDE	SINGLE 2X4	OBSCURE
4	4'-0"	1'-6"	AWNING	4X12 #1	2 TRIMMERS PER SIDE	SINGLE 2X4	OBSCURE

WINDOW NOTES:
U-FACTOR MUST BE 0.32 OR LOWER & SGHC MUST BE 0.25 OR LOWER

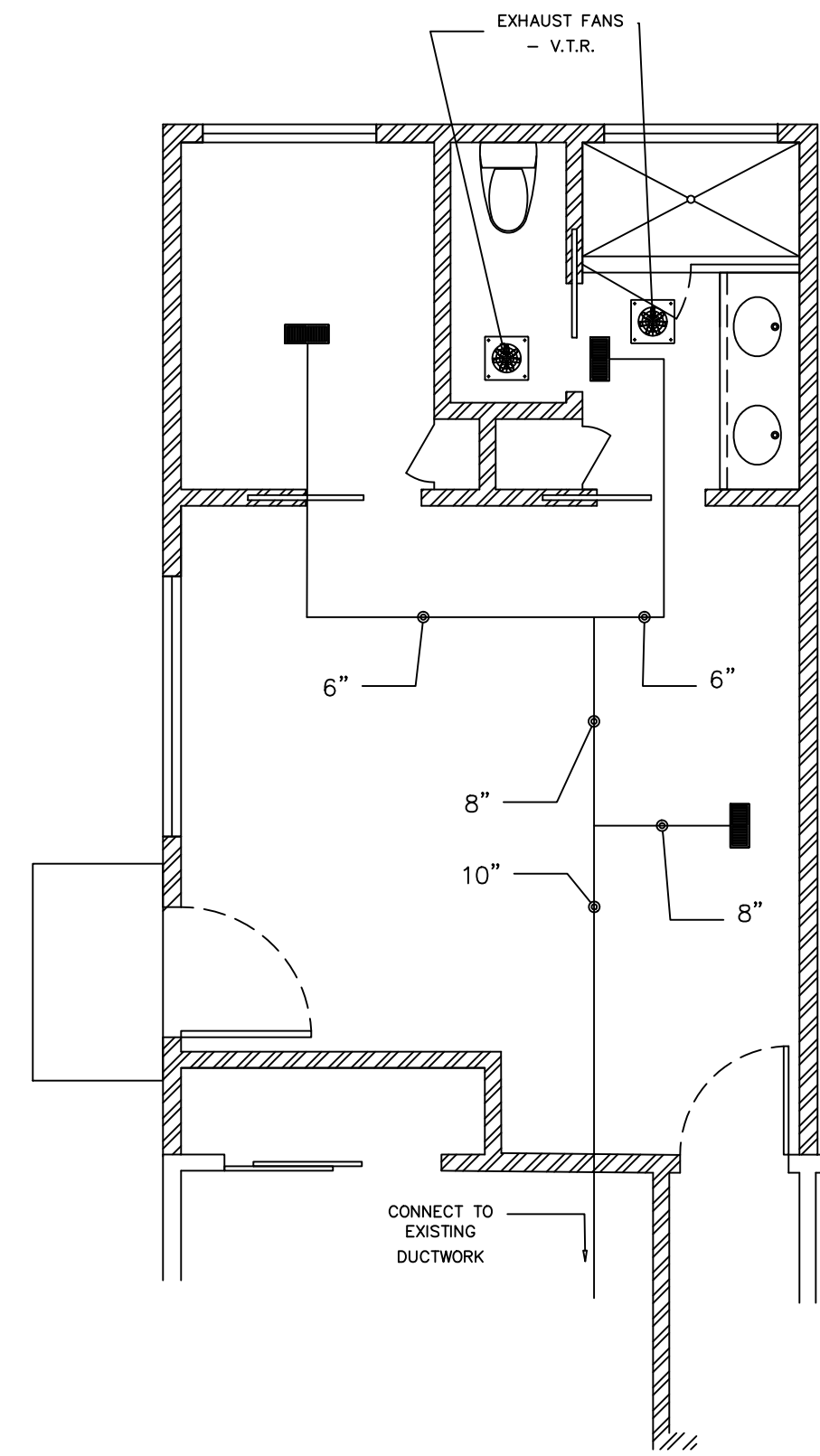
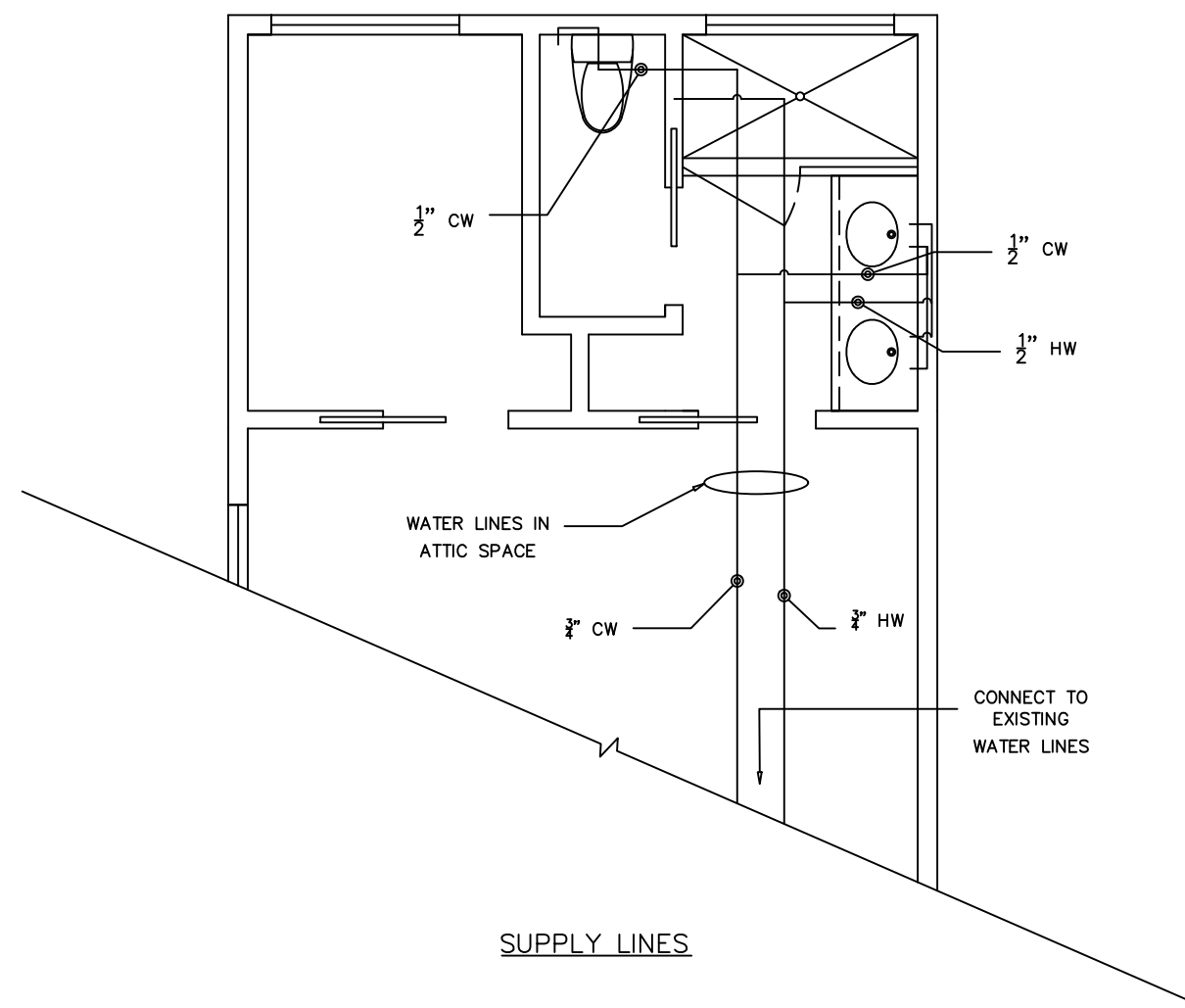
MARK	WIDTH	HEIGHT	TYPE	HEAD	JAMB	SILL	NOTES
1	5'-0"	6'-8"	--	4X12 #1	2 TRIMMERS & 2 KING STUDS PER SIDE		BI-PASS
2	3'-0"	6'-8"	--	4X12 #1	2 TRIMMERS & 2 KING STUDS PER SIDE	ALUMINUM THRESHOLD	EXTERIOR GRADE FRENCH DOOR
3	2'-8"	6'-8"	--	4X8	SINGLE TRIMMER SINGLE KING		POCKET DOOR
4	2'-6"	6'-8"	--	4X8	SINGLE TRIMMER SINGLE KING		POCKET DOOR
5	2'-6"	6'-8"	--	4X8	SINGLE TRIMMER SINGLE KING		POCKET DOOR
6	2'-6"	6'-8"	--	4X12 #1	SINGLE TRIMMER SINGLE KING		

FRAMING NOTES & DETAILS
DOOR & WINDOW SCHEDULES

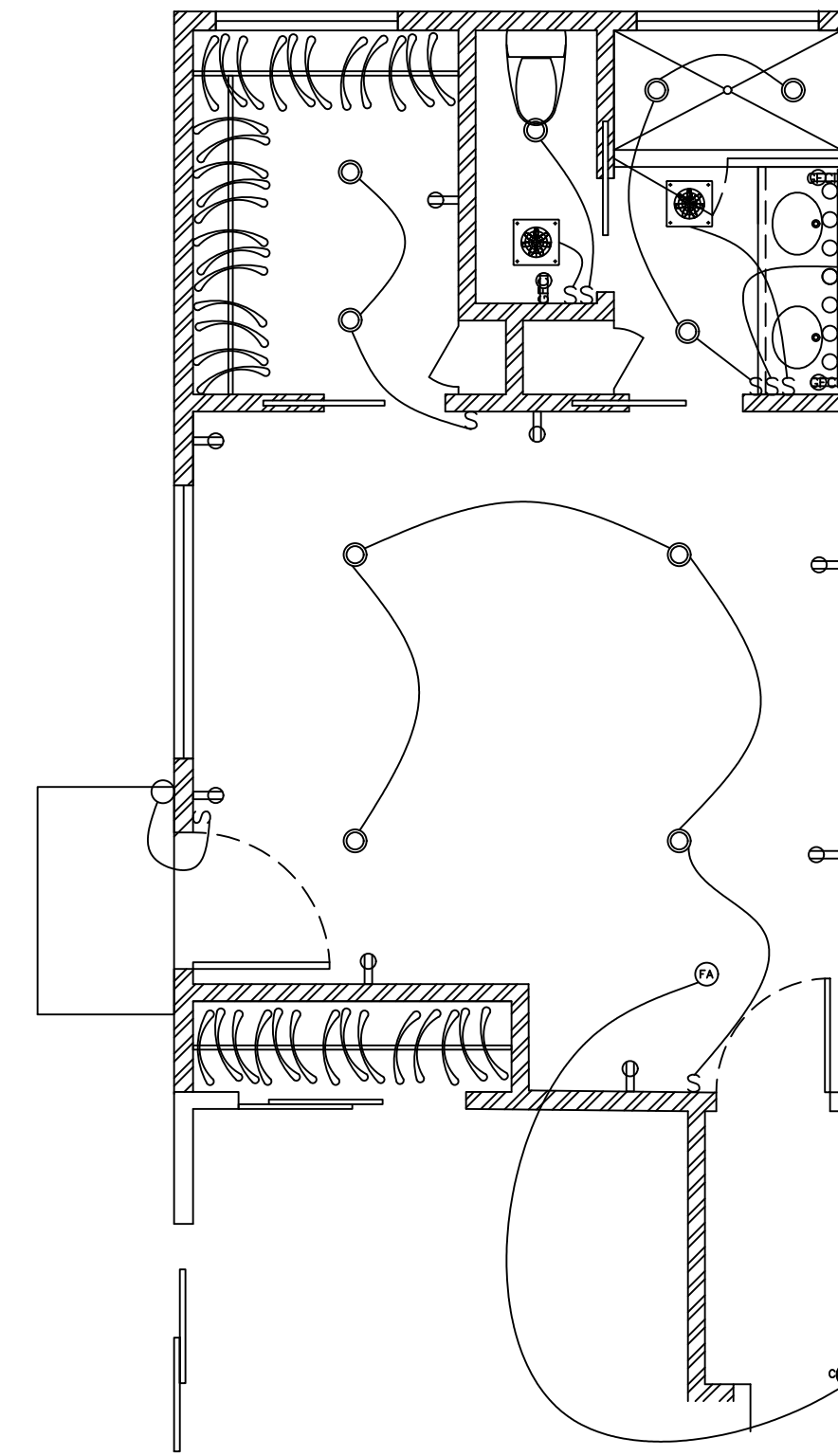
A5.1



NOTES:
SEE PLUMBING NOTES ON SHEET A0.2 & CAL GREEN PLUMBING REQUIREMENTS ON SHEETS G1.0 & G1.1



NOTES:
SEE MECHANICAL NOTES ON SHEET A0.2 & CAL GREEN MECHANICAL REQUIREMENTS ON SHEETS G1.0 & G1.1
SIZES AND LOCATIONS OF PIPING AND REGISTERS ARE DIAGRAMMATICAL. MECHANICAL CONTRACTOR TO DETERMINE EXISTING CAPACITY, DUCT SIZING, REGISTER LOCATIONS, AND REGISTER SIZES TO PROVIDE OPTIMUM VENTILATION
(E) HVAC SYSTEM IS LOCATED IN ATTIC SPACE ABOVE BEDROOM 3 AND THE HALLWAY



NOTES:
SEE ELECTRICAL NOTES ON SHEET A0.2 & CAL GREEN ELECTRICAL REQUIREMENTS ON SHEETS G1.0 & G1.1

- 4" OR 6" LED RECESSED LIGHTING. VERIFY SIZE WITH OWNER. USE FIXTURES SUITABLE FOR DAMP LOCATION IN BATHROOM
- EXHAUST FAN
- Ⓝ (N) FIRE ALARM. NEW FIRE ALARMS TO BE INTERCONNECTED. SMOKE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING PROVIDED THAT SUCH WIRING IS SERVED FROM A COMMERCIAL SOURCE AND SHALL BE EQUIPPED WITH A BATTERY BACKUP. SMOKE ALARMS WITH INTEGRAL STROBES THAT ARE NOT EQUIPPED WITH BATTERY BACKUP SHALL BE CONNECTED TO AN EMERGENCY ELECTRICAL SYSTEM. SMOKE ALARMS SHALL EMIT A SIGNAL WHEN THE BATTERIES ARE LOW. WIRING SHALL BE PERMANENT AND WITHOUT A DISCONNECTING SWITCH OTHER THAN AS REQUIRED FOR OVERCURRENT PROTECTION.
- Ⓝ (N) CARBON MONOXIDE ALARM. CARBON MONOXIDE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING WHERE SUCH WIRING IS SERVED FROM A COMMERCIAL SOURCE AND, WHERE PRIMARY POWER IS INTERRUPTED, SHALL RECEIVE POWER FROM A BATTERY. WIRING SHALL BE PERMANENT AND WITHOUT A DISCONNECTING SWITCH OTHER THAN THOSE REQUIRED FOR OVERCURRENT PROTECTION. COMBINATION CARBON MONOXIDE AND SMOKE ALARMS SHALL BE PERMITTED TO BE USED IN LIEU OF CARBON MONOXIDE ALARMS.

Revision History	
	AS-BUILT
	PRELIMINARY DESIGN
	DESIGN
	PERMIT SET
⚠	PLAN REVIEW COMMENTS
⚠	PLAN REVIEW COMMENTS

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ELECTRICAL
MECHANICAL
PLUMBING
PLANS