

# SHEET INDEX

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# GENERAL NOTES

- ALL EXTERIOR DOORS TO BE WEATHER STRIPPED.
- ALL INTERIOR FINISHES, PAINT, WALL COVERING, WALL PANELING ETC. TO HAVE A MINIMUM FLAME SPREAD CLASSIFICATION OF 1 1 1, AS PER TABLE 8-A, 8-B OF UBC 904 CODE, LATEST EDITION.
- GUTTERS, DOWNSPOUTS AND FLASHING TO BE .027 GALVANIZED SHEET METAL.
- ALL WORK SHALL CONFORM TO:
  - 2022 CALIFORNIA RESIDENTIAL CODE
  - CALIFORNIA BUILDING CODE 2022 EDITION
  - CALIFORNIA MECHANICAL CODE 2022 EDITION
  - CALIFORNIA PLUMBING CODE 2022 EDITION
  - CALIFORNIA FIRE CODE 2022 EDITION
  - CALIFORNIA ELECTRICAL CODE 2022 EDITION
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  - CALIFORNIA GREEN BUILDING STANDARDS CODE 2022 EDITION
  - CALIFORNIA GREEN BUILDING STANDARDS CODE 2022 (CALGREEN)
  - SAN DIEGO BUILDING REGULATIONS 2022
- ALL APPLICABLE REGULATIONS, ORDINANCES, OR SPECIAL PROVISIONS.
- ONE WINDOW IN EACH SLEEPING ROOM SHALL PROVIDE A MIN OPERABLE AREA OF 5.7SF.
- 1.6 GAL MAX PER FLUSH AT TOILETS; 2.5 GPM MAX AT SHOWER HEAD; 2.2 GPM AT LAVATORY.
- BATHROOM RECEPTACLE OUTLETS SHALL BE SUPPLIED BY AT LEAST ONE 20AMP CIRCUIT. SUCH CIRCUITS SHALL HAVE NO OTHER OUTLETS.
- PROVIDE 5/8" TYPE 'X' GYP BOARD AT ALL WALLS, CEILING, POST & BEAM AT GARAGE - TAPE

# PROJECT NOTES

- "DURING CONSTRUCTION, AT LEAST ONE EXTINGUISHER SHALL BE PROVIDED ON EACH FLOOR LEVEL AT EACH STAIRWAY, IN ALL STORAGE AND CONSTRUCTION SHEDS, IN LOCATIONS WHERE FLAMMABLE OR COMBUSTIBLE LIQUIDS ARE STORED OR USED, AND WHERE OTHER SPECIAL HAZARDS ARE PRESENT PER CFC SECTION 3315.1"
- BUILDINGS UNDERGOING CONSTRUCTION, ALTERATION, OR DEMOLITION SHALL CONFORM TO CFC CHAPTER 33, WELDING, CUTTING, AND OTHER HOT WORK SHALL BE IN CONFORMANCE WITH CFC CHAPTER 33.
- IN ACCORDANCE WITH CALIFORNIA BUILDING CODE 2021 THE EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. EXIT DOORS SHALL NOT BE LOCKED, OR OTHERWISE RENDERED UNUSABLE. ALL LOCKING DEVICES SHALL BE OF AN APPROVED TYPE. EXCEPTION: KEY LOCKING DEVICES MAY BE USED ON THE MAIN EXIT ONLY IF A DURABLE SIGN ON OR ADJACENT TO THE FRONT DOOR STATING, "THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS" THE SIGN SHALL BE IN LETTERS NOT LESS THAN ONE INCH HIGH ON A CONTRASTING BACKGROUND. THE LOCKING DEVICE MUST BE OF A TYPE THAT WILL BE READILY DISTINGUISHABLE AS LOCKED. NO THUMB LATCH OR KEYS. CYLINDERS/DEADLOCKS ARE ALLOWED ON OTHER DOORS UNLESS OPERATED BY A SINGLE ACTION WITH A LEVER ACTION.
- A "1000-4000" KEY SECURITY LOCK BOX IS REQUIRED FOR THIS PROJECT. FORMS FOR THE BOX MAY BE OBTAINED FROM THE MONTEREY FIRE DEPARTMENT PRIOR TO FINAL OCCUPANCY SO THAT IT MAY BE INSTALLED IN TIME FOR FINAL INSPECTION OF THE COMPLEX. ALL BUILDINGS SHALL HAVE A PERMANENTLY POSTED ADDRESS, WHICH SHALL BE PLACED AT EACH DRIVEWAY ENTRANCE AND VISIBLE FROM BOTH DIRECTIONS OF TRAVEL ALONG THE ROAD. IN ALL CASES, THE ADDRESS SHALL BE POSTED AT THE BEGINNING OF CONSTRUCTION AND SHALL BE MAINTAINED THEREAFTER, AND THE ADDRESS SHALL BE VISIBLE AND LEGIBLE FROM THE ROAD ON WHICH THE ADDRESS IS LOCATED.
- SIZE OF LETTERS, NUMBERS AND SYMBOLS FOR ADDRESSES SHALL BE A MINIMUM OF 3 INCH LETTER HEIGHT, 3/8 INCH STROKE, CONTRASTING WITH THE BACKGROUND COLOR OF THE SIGN. FIRE SPRINKLER REQUIRED. THE RESIDENCES SHALL BE PROTECTED WITH AUTOMATIC FIRE SPRINKLER SYSTEMS. FIRE SPRINKLERS ARE REQUIRED IN ATTACHED GARAGES. INSTALLATION, APPROVAL, AND MAINTENANCE BE IN COMPLIANCE WITH APPLICABLE NATIONAL FIRE PROTECTION ASSOCIATION STANDARD 136 AND LOCAL AMENDMENTS, THE EDITION(S) OF WHICH SHALL BE DETERMINED BY THE ENFORCING JURISDICTION. PLANS FOR FIRE SPRINKLER SYSTEMS MUST BE SUBMITTED AND APPROVED PRIOR TO INSTALLATION. ROUGH-IN INSPECTIONS MUST BE COMPLETED PRIOR TO REQUESTING A FRAMING INSPECTION FROM THE BUILDING INSPECTION DEPARTMENT. FIRE ALARM FLOW SWITCH - SHALL BE WIRED TO THE KITCHEN REFRIGERATOR CIRCUIT. ANY DEVIATIONS REQUIRE APPROVAL FROM THE FIRE DEPARTMENT. ADDRESS NUMBERS TO BE POSTED - BEFORE CONSTRUCTION BEGINS, TEMPORARY OR PERMANENT ADDRESS NUMBERS SHALL BE POSTED. PERMANENT ADDRESS NUMBERS SHALL BE POSTED PRIOR TO THE REQUEST FOR FINAL INSPECTION. ALL ADDRESS NUMBERS (PERMANENT OR TEMPORARY) SHALL BE POSTED ON THE DRIVEWAY OR ACCESS ROAD TO THE PROPERTY. ADDRESS NUMBERS POSTED SHALL BE "ARABIC" (1,2,3 ETC) NOT "ROMAN" (I,II,III ETC) OR WRITTEN OUT IN WORDS. ADDRESS NUMBERS POSTED SHALL BE A MINIMUM NUMBER HEIGHT OF 3 INCHES, 3/8" INCH WIDE STROKE, AND CONTRASTING WITH THE BACKGROUND COLORS OF THE SIGN. NOTE: IF THE NUMBERS ARE NOT POSTED, BUILDING INSPECTORS WILL NOT GRANT A FINAL INSPECTION. ROOFING CLASS "A" OR "B" REQUIRED. ROOF CONSTRUCTION SHALL BE CLASS "A" OR CLASS "B" BUILDUP, AS DEFINED BY UNIFORM BUILDING CODE STANDARD 15.2. THIS REQUIREMENT SHALL APPLY TO ALL NEW CONSTRUCTION AND 100% PERCENT OR MORE OF AN EXISTING ROOF IS REPLACED WITHIN A ONE-YEAR PERIOD. CLEAR VEGETATION - ALL FLAMMABLE VEGETATION OTHER COMBUSTIBLE GROWTH SHALL AT ALL TIMES MAINTAIN CLEAR DISTANCE OF NOT LESS THAN 30 FEET ON EACH SIDE FROM STRUCTURES OR BUILDINGS. THIS SHALL NOT APPLY TO SINGLE SPECIMENS OF TREES, ORNAMENTAL SHRUBBERY OR SIMILAR PLANTS USED AS GROUND COVERS, PROVIDED THAT THEY DO NOT FORM A MEANS OF RAPIDLY TRANSMITTING FIRE FROM THE NATIVE GROWTH TO AN STRUCTURE. ADDITIONAL FIRE PROTECTION OR FIREBREAKS MAY BE REQUIRED WHEN, BECAUSE OF EXTRA HAZARDOUS CONDITIONS, A FIREBREAK OF ONLY 30 FEET AROUND SUCH STRUCTURE IS NOT SUFFICIENT TO PROVIDE REASONABLE FIRE SAFETY. ENVIRONMENTALLY SENSITIVE AREA MAY REQUIRE ALTERNATE FIRE PROTECTION, TO BE DETERMINED BY THE FIRE CHIEF AND DIRECTOR OF PLANNING AND BUILDING. THIS PROJECT REQUIRES \_\_\_\_\_ FEET CLEARANCE. ACCESS DRIVEWAYS - GENERAL - ACCESS DRIVEWAYS SHALL BE ALL-WEATHER DRIVING SURFACE CAPABLE OF SUPPORTING FIRE APPARATUS (2 TON) NOT LESS THAN 12 WIDE OF UNOBSTRUCTED WIDTH. A MINIMUM OF 15' OR 150' VERTICAL CLEARANCE, AND A MAXIMUM 15% GRADE ON DRIVEWAYS AND ACCESS ROADS HAVING A SLOPE OF 8% OR MORE THE FINISH SURFACE SHALL BE PAVING OR CONCRETE. EXCEPTION: WHEN BUILDING ARE PROTECTED BY AN APPROVED AUTOMATIC FIRE SPRINKLER SYSTEM, THE PROVISIONS OF THIS SECTION MAY BE MODIFIED, SUBJECT TO THE APPROVAL OF THE LOCAL JURISDICTION. DRIVEWAY TURNOUT REQUIRED - DRIVEWAYS SHALL NOT BE LESS THAN 12 FEET WIDE UNOBSTRUCTED. ALL DRIVEWAYS EXCEEDING 150 FEET IN LENGTH, BUT LESS THAN 800 FEET IN LENGTH, SHALL PROVIDE A TURNOUT NEAR THE MIDPOINT OF THE DRIVEWAY. WHERE THE DRIVEWAY EXCEEDS 800 FEET, TURNOUTS SHALL BE PROVIDED AT NO GREATER THAN 400 FOOT INTERVALS. (SEE EXAMPLE 'A') ACCESS ROADS - TURN AROUND REQUIRED - ALL DEAD-END ACCESS ROADS IN EXCESS OF 150 FEET IN LENGTH SHALL BE PROVIDED WITH APPROVED PROVISIONS FOR THE TURNING AROUND OF THE APPARATUS. (SEE EXAMPLE 'B') PRICING GATES - ELECTRIC GATES SHALL BE PROVIDED WITH A KEYSWITCH MEETING FIRE DEPARTMENT SPECIFICATIONS. MANUAL GATES SHALL BE PROVIDED WITH FIRE DEPARTMENT PADLOCKS MEETING FIRE DEPARTMENT SPECIFICATIONS. GATE ENTRANCES SHALL BE AT LEAST THE WIDTH OF THE TRAFFIC LANE, BUT IN NO CASE LESS THAN 12 FEET WIDE UNOBSTRUCTED VERTICAL CLEARANCE SHALL NOT BE LESS THAN 15'. BRIDGES - ALL NEW AND RECONSTRUCTED BRIDGES SHALL BE AT LEAST THE WIDTH OF THE EXISTING ROADBED AND BERMS BUT IN NO CASE LESS THAN 12 FEET WIDE. BRIDGE WIDTH ON ALL ROADS EXCEEDING TERTIARY STANDARDS SHALL NOT BE LESS THAN THE WIDTH OF TWO LANES WITH BERMS. ALL BRIDGES SHALL BE DESIGNED FOR HS 20-44 LOADING (STANDARD SPECIFICATION FOR HIGHWAY BRIDGES) AND HAVE GUARDRAILS. SETBACK FOR STRUCTURE DEFENSIBLE SPACE (30 FEET) - ALL PARCELS 1 ACRE AND LARGER SHAL PROVIDE A MINIMUM 30-FOOT SETBACK FOR BUILDINGS AND ACCESSORY BUILDINGS FROM ALL PROPERTY LINES AND/OR THE CENTER OF THE ROAD FOR PARCELS LESS THAN 1 ACRE. OR WHEN A 30 FOOT MINIMUM SETBACK CANNOT BE REACHED, ALTERNATE FUEL MODIFICATIONS STANDARDS MAY BE IMPOSED BY THE LOCAL FIRE JURISDICTION TO PROVIDE THE SAME PRACTICAL EFFECT. MEASUREMENTS ALL MEASUREMENTS PROVIDED BY OWNER.

CONDITIONS ADOPTED BY LOCAL GOVERNING AGENCIES.

# VICINITY MAP



# SYMBOLS

- WALL LINE
- NUMBERS VERTICAL
- LETTERS HORIZONTAL
- DOORS SYMBOL NUMBERS
- WINDOW TYPE-NUMBERS
- DETAIL
- DETAIL IDENTIFICATION SHEET WHERE DETAIL IS DRAWN
- SECTION
- SECTION IDENTIFICATION SHEET WHERE SECTION IS DRAWN
- ELEVATION
- ELEVATION IDENTIFICATION SHEET WHERE ELEVATION IS DRAWN
- ROOM IDENTIFICATION
- ROOM NAME
- NUMBER
- REVISIONS-NUMBERS
- CLOUD AROUND REVISION OPTIONAL
- MATCH LINE
- SHADED PORTION IS THE SIDE CONSIDERED
- WORK POINT
- CONTROL OR DATUM POINT
- GRADE
- NEW OR FINISHED GRADE AT EXTERIOR
- FINISH FLOOR ELEVATION AT INTERIOR (EXISTING GRADE)
- SECURITY IDENTIFICATION
- PROPERTY LINE
- CENTER LINE
- F.O.S
- FACE OF STUD OR FINISHED
- FLOOR ELEVATION
- H-WALL HARDY WALL

# MATERIALS

- EARTH
- SAND, MORTAR, PLASTER
- ROCK FILL
- CONCRETE
- BRICK
- CONCRETE BLOCK
- METAL
- WOOD, FINISH
- WOOD, FRAMING (THRU MEMBER)
- WOOD FRAMING (INTERRUPTED MEMBER)
- PLYWOOD
- GYPNUM BOARD (OMIT DOUBLE)
- INSULATION, BATT
- INSULATION RIGID
- CERAMIC TILE TILE PROFILE ONLY SHOWN

# CONSULTANT DIRECTORY

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# TITLE 24

- TITLE 24 ENERGY COMPLIANCE STANDARD DOCUMENTATION: MANDATORY MEASURES CHECKLIST MAY NOT APPLY TO ALL PROJECTS.
- MINIMUM R19 CEILING INSULATION.
  - LOOSE FILL INSULATION - MANUFACTURER'S LABELED R-VALUE.
  - MINIMUM R-13 WALL INSULATION IN FRAMED WALLS (DOES NOT APPLY TO EXTERIOR MASS WALLS.)
  - MINIMUM R-13 RAISED FLOOR INSULATION IN FRAMED FLOORS. MINIMUM R-8 IN CONCRETE RAISED FLOORS.
  - S LAB EDGE: WATER ABSORPTION RATE NO GREATER THAN 0.3%; WATER VAPOR TRANSMISSION RATE NO GREATER THAN 2.0 PERM/INCH.
  - INSULATION SPECIFIED OR INSTALLED MEETS CALIFORNIA ENERGY COMMISSION QUALITY STANDARDS.
  - FENESTRATION PRODUCTS, EXTERIOR DOORS AND INFILTRATION/ EXFILTRATION CONTROLS: -DOORS AND WINDOWS BETWEEN CONDITIONED AND UNCONDITIONED SPACES DESIGNED TO LIMIT AIR LEAKAGE. -MANUFACTURED FENESTRATION PRODUCTS HAVE LABEL WITH CERTIFIED U-VALUE, AND INFILTRATION CERTIFICATE. -EXTERIOR DOORS AND WINDOWS WEATHER STRIPPED; ALL JOINTS AND PENETRATIONS CAULKED AND SEALED.
  - VAPOR BARRIERS MANDATORY IN CLIMATE ZONES 14 AND 16 ONLY.
  - SPECIAL INFILTRATION BARRIER INSTALLED TO COMPLY WITH #151 MEETS COMMISSION QUALITY STANDARDS.
  - INSTALLATION OF FIREPLACES, DECORATIVE GAS APPLIANCES AND GAS LOGS: MASONRY AND FACTORY-BUILT FIREPLACES HAVE -CLOSEABLE METAL OR GLASS DOOR -OUTSIDE AIR INTAKE WITH DAMPER CONTROL -FLUE DAMPER AND CONTROL NO PROVIDE SUFFICIENT BURNING GAS PILOTS ALLOWED
  - HVAC EQUIPMENT, WATER HEATERS, SHOWERHEADS AND FAUCETS CERTIFIED BY COMMISSION.
  - SETBACK THERMOSTAT ON ALL APPLICABLE HEATING SYSTEMS.
  - PIPE AND TANK INSULATION: -INDIRECT HOT WATER TANKS (E.G. UNFIRED STORAGE TANKS, OR BACKUP SOLAR HOT WATER TANKS) HAVE INSULATION (R-12 OR GREATER) OR COMBINED INTERIOR/EXTERIOR INSULATION OF R-16 OR GREATER. -FIRST 5' OF PIPES CLOSEST TO WATER HEATER TANK, NON-RECIRCULATING SYSTEMS, INSULATED WITH R-4 OR GREATER. -ALL BURIED OR EXPOSED PIPING INSULATED IN RECIRCULATING SECTIONS OF HOT WATER SYSTEM. -COOLING SYSTEM PIPING BELOW 55 DEGREES F TO BE INSULATED. -PIPING INSULATED BETWEEN HEATING SOURCE AND HOT WATER TANK.
  - DUCTS CONSTRUCTED, INSTALLED AND SEALED TO COMPLY WITH UMC SECTIONS 1002 AND 1004; DUCTS INSULATED TO A MINIMUM INSTALLED VALUE OF R-4.2 OR DUCTS ENCLOSED ENTIRELY WITHIN CONDITIONED SPACE.
  - EXHAUST FAN SYSTEMS HAVE BACKDRAFT OR AUTOMATIC DAMPERS.
  - GRAVITY VENTILATING SYSTEMS SERVING CONDITIONED SPACE HAVE EITHER AUTOMATIC OR READILY ACCESSIBLE MANUALLY OPERATED DOORS.
  - GAS FIRED CENTRAL FURNACE, POOL HEATER, SPA HEATER OR HOUSEHOLD COOKING APPLIANCE HAVE NO CONTINUOUSLY BURNING PILOT LIGHT. (EXCEPTION: NON-ELECTRICAL COOKING APPLIANCE WITH PILOT <150 BTU/HR.)
  - LIGHTING MEASURES: 40 LUMENS/WATT OR GREATER FOR GENERAL LIGHTING IN KITCHENS AND ROOMS WITH WATER CLOSETS; RECESSED CEILING FIXTURES IC (INSULATION COVER) APPROVED.

# PROJECT DATA

PROJECT OWNER: CHESTER HOWE  
ADDRESS: 5605 FRIARS RD # 306, SAN DIEGO, CA 92110

YEAR BUILT: 1981  
EMPLOYEE COUNT: NA  
OCCUPANCY GROUP (EXISTING): GROUP B  
OCCUPANCY GROUP (PROPOSED): GROUP B  
PROJECT DESCRIPTION: CONDOMINIUM REMODEL  
A.P.N.: 436611538  
ZONING: R-2  
TYPE OF CONSTRUCTION (EXISTING): 1  
LOT NUMBER: SPRINKLERED  
LEGAL DESCRIPTION: US306PER DOCT9-365511&UND INT IN LOT 1 TR 9084 SAN DIEGO CITY

ZONING ORDNANCE: 1  
EXISTING LOT SIZE: 300,803 SQUARE FT.  
EXISTING RESIDENCE TOTAL AREA: 854 SQ.FT.  
EXISTING RESIDENCE AREA 1ST LEVEL: 854 SQ.FT.  
EXISTING RESIDENCE AREA MAIN LEVEL: SQ.FT.  
EXISTING GARAGE AREA SECOND LEVEL: SQ.FT.  
EXISTING DECKING: SQ.FT.  
EXISTING DECKING (COVERED): SQ.FT.  
EXISTING OUTBUILDINGS: 1  
EXISTING LANDSCAPING: 4  
EXISTING F.A.R.: 1  
LOT COVERAGE: 4  
LEVELS: 4

**EXISTING WALL CALCULATIONS:**  
EXISTING EXTERIOR WALLS LENGTHS IN LINEAR FEET:

**EXISTING CONCRETE CALCULATIONS:**  
CONCRETE DRIVEWAY:  
CONCRETE WALKWAY:

**PROPOSED AREA CALCULATIONS:**  
LOT 1  
PROPOSED AREA MAIN LEVEL JADU: SQ.FT.  
PROPOSED AREA FIRST LEVEL ADU: SQ.FT.  
LOT 2  
PROPOSED AREA MAIN LEVEL RESIDENCE 1: SQ.FT.  
PROPOSED AREA FIRST LEVEL RESIDENCE 2: SQ.FT.  
PROPOSED AREA MAIN LEVEL ADU 1: SQ.FT.  
PROPOSED AREA FIRST LEVEL JADU 2: SQ.FT.

PROPOSED 1ST FLOOR PORCH (UNDER 2ND FLOOR DECK): % OF MAX FAR (IN SQ. FT.):  
PROPOSED 2ND FLOOR DECKING:  
PROPOSED FENCING:  
PROPOSED OUTBUILDINGS, LAUNDRY:  
PROPOSED F.A.R. MAX - FAR CALCULATION (IN SQ. FT.): SQ.FT.  
PROPOSED LOT COVERAGE:  
PROPOSED WALLS LENGTHS IN LINEAR FEET:

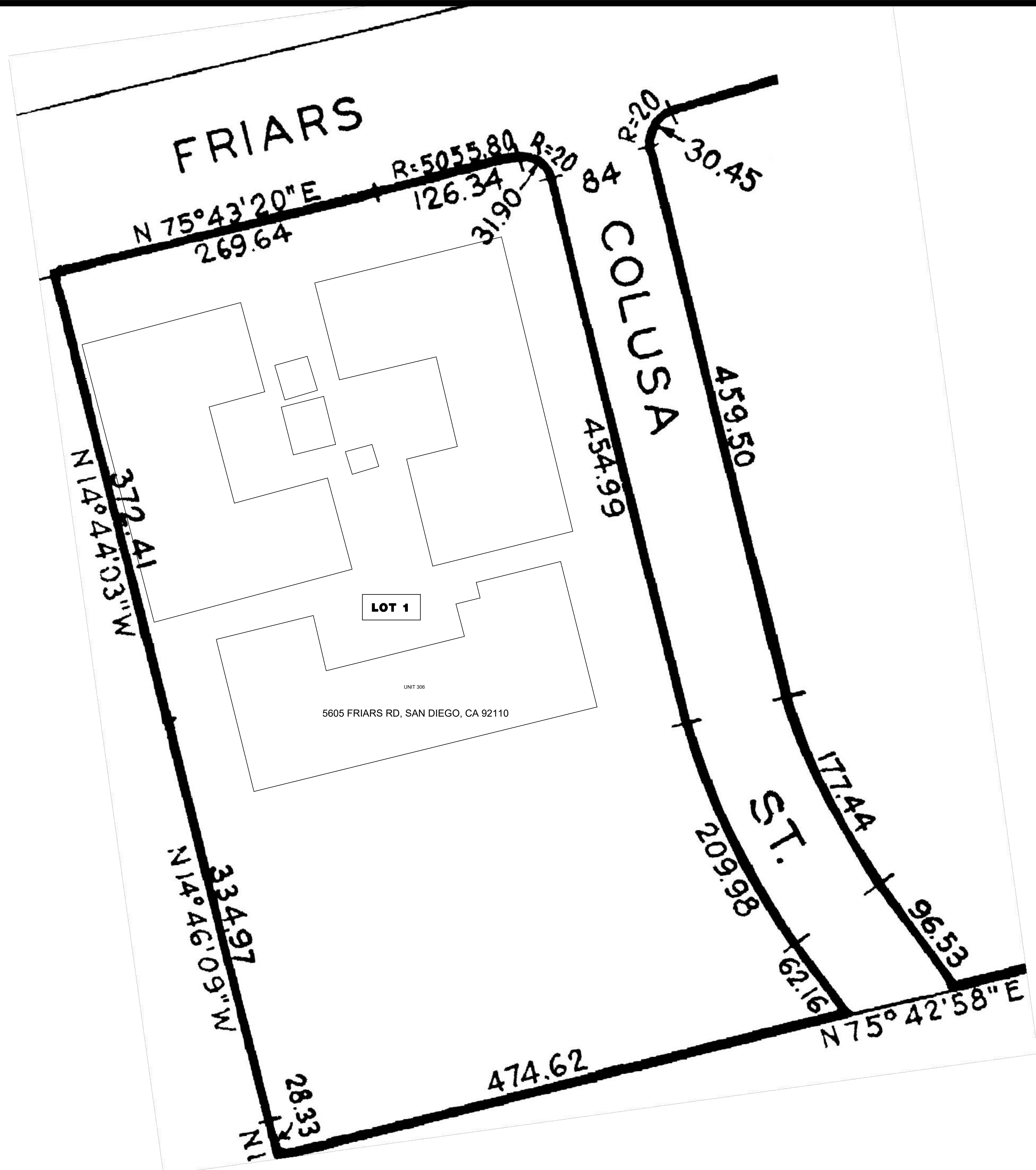
**PROPOSED WALL CALCULATIONS:**  
DEMO TWO WALLS 4'  
INSTALL TWO WALLS 10'  
DEMO PARTIAL WALL 1'-6"

**PROPOSED SCOPE OF WORK TO INCLUDE:**  
1) ENLARGE CLOSET AND INSTALL NEW LIGHTING.  
2) REMOVE PARTIAL KITCHEN WALL AND INSTALL NEW BREAKFAST BAR.  
3) INSTALL NEW WASHER/DRYER COMBO (VENTLESS) WITH STANDARD 120V.

**TOTAL AREA OF WORK:**  
KITCHEN 112.77 SQUARE FT., PERIMETER = 42'-5 15/16"10'  
CLOSET 73.1076 SQUARE FT., PERIMETER = 34'-2 7/16" 4

# ABBREVIATIONS

- @ at
- L angle
- centerline
- channel
- FUT future
- # number
- d penny
- di perpendicular
- PL plate
- property line
- round
- ACC access
- APT access panel
- AC acoustical
- ACPL acoustical plaster
- ACT acoustical tile
- ACR acrylic plastic
- ADD addendum
- ADH adhesive
- ADJ adjacent
- ACR adjustable
- AGG aggregate
- ALT alternate
- AC air conditioning
- AL aluminum
- AB asphalt
- ANOD anodized
- APX approximate
- ARCH architectural
- AD area drain
- ASB asbestos
- ASPT asphalt
- AT asphalt tile
- AUTO automatic
- B5MT basement
- BPL bearing plate
- BM bench mark
- BETN between
- BVL beveled
- BIT bituminous
- BLK block
- BLKG blocking
- BOB board
- BOT bottom
- BRK brick
- BLDC building
- BUR built up roofing
- BBD bulletin board
- CAB cabinet
- KIT kitchen
- CSMT casement
- LAB laboratory
- CIPC cast-in-place concrete
- CB catch basin
- CS caulk(sing)
- CLG ceiling
- CEM cement
- CT ceramic tile
- CEM ceramic
- CT ceramic tile
- CHBD chalkboard
- CHAM chamfer
- BOB board
- CLR clearance
- CLS closure
- COL column
- COMB combination
- CON construction
- COMPO combination (site)
- CONC concrete
- CMU concrete masonry unit
- CONN connection
- CONST construction
- CONT continuous or continue
- CONTR contractor
- CTL control line
- CT control unit
- COFR congested
- CTR counter
- CTR counter
- CS countersink
- CS countersink
- CSK countersink screw
- CRS courses
- DPR damper
- DP damproofing
- DEM demolition
- DMT demountable
- DET detail
- DIAG diagonal
- DIA diameter
- DIM dimension
- DISP dispenser
- DIV division
- DR door
- DH double hung
- DTA dovetail anchor
- DT double anchor slot
- DS downspout
- D drain
- DRE drain board
- DT drain tile
- DWR drawer
- DWD drawing
- DF drinking fountain
- EF each face
- E east
- ELEC electrical
- EP electric panel board
- EWC EWC electric water cooler
- EL elevation
- EMER emergency
- ENCL enclosure
- EQ equal
- EQPT equipment
- EST estimate
- EXCA excavate
- EXH exhaust
- EXGT existing
- EB expansion bolt
- EXPO exposed
- EXT exterior
- FB face brick
- FCC face of concrete
- FF face of finish
- FOM face of masonry
- FOS face of study
- FF factory fishish
- FAS fasten, fastener
- FN fence
- FBD fiberboard
- FGL fiberglass
- FIN finished
- FFE finished floor elevation
- FIN finished floor line
- FA fire alarm
- FE fire extinguisher
- FEQ fire extinguisher cabinet
- FHS fire hose station
- FP fireproof
- FRC fire-resistant coating
- FRT fire retardant
- FLG flashing
- FMS finished machine screw
- FLOO floor cleanout
- FD floor drain
- FLUR fluorescent
- FJ flush joint
- FTG footing
- FND foundation
- FR frame(s), (ing)
- FRA fresh air
- FS full size
- FBO furnished by others
- FUR furred(ing)
- FUT future
- GA gauge
- GALV galvanized
- GI galvanized iron
- GP galvanized pipe
- GSS galvanized steel sheet
- GSK gasket (ed)
- GC general contractor
- GL glass, glazing
- GB grab bar
- GD grade, grading
- GVL grave
- GPW gypsum drywall
- GPPL gypsum plaster
- HW handle
- HBD hardboard
- HW hardware
- HWD hardwood
- HJT head joint
- HDR header
- HTG heating
- HVAC heating/ventilating/air conditioning
- HD heavy duty
- HGT height
- HX hexagonal
- HC hollow cone
- HM hollow metal
- HK hook(s)
- HRHZ horizontal
- HB hose bibb
- HWH hot water heater
- INCL include(d), (ing)
- ID inside diameter
- INT interior
- NTM intermediate
- INV inside
- IPS iron pipe size
- JT joint
- JF joint filler
- J joint
- KCTL Keene's cement plaster
- KIT kitchen
- KN knobout
- LBL label
- LAB laboratory
- LAD lag load
- LB lag bolt
- LAM laminated
- LAV lavatory
- LC left hand
- L length
- LT light
- LW lightweight
- LWC lightweight concrete
- LTL lintel
- LLD load
- LVR louver
- LPT low point
- M machine bolt
- MH manhole
- MCU masonry cure(ure)
- MAS masonry
- MO masonry opening
- MTL maximum
- MAX maximum
- MC medicine cabinet
- MED medium
- MET metal
- MIR mirror
- MIS miscellaneous
- MOD modular
- MLD molding
- MND moulded, (ing)
- MOV movable
- MULL mullion
- NAT natural
- NR noise reduction
- NRC noise reduction coefficient
- NOI nominal
- NIC not in contract
- NTS not to scale
- OBS obscure
- CC on center(s)
- OPC opening
- OPP opposite
- OPH opposite hand
- OD outside diameter
- OA overall
- OH overhead
- PNT paint (ed)
- PNL panel
- PB panic bar
- PAR parallel
- PK parking
- PTN partition
- PERF perforate(d)
- PERI perimeter
- PLAS plaster
- PLAM plastic laminate
- PL plate
- PG, plate glass
- PHD plywood
- PT point
- PVC poly(vinyl) chloride
- PSF pounds per square foot
- PSI pounds per square inch
- PCO precast concrete
- PBF prefabricate(d)
- PSC pre stressed concrete
- QR quarry tile
- RAD radius
- REF reference
- RLF reflect (ed), (ing)
- REFR refrigerator
- REG register
- REIN reinforcement (d), (ing)
- RCP reinforced concrete pipe
- REM remove
- RESIL resilient
- RET return
- RA return air
- REV revision(s), reverse(d)
- RH right hand
- R riser
- RD roof drain
- RFH roof hatch
- FRG roofing
- RM room
- RO rough opening
- SPGL safety glass
- SCH schedule
- STG seating
- SECT section
- RAD radius
- REF reference
- RLF reflect (ed), (ing)
- REFR refrigerator
- REG register
- REIN reinforcement (d), (ing)
- RCP reinforced concrete pipe
- REM remove
- RESIL resilient
- RET return
- RA return air
- REV revision(s), reverse(d)
- RH right hand
- R riser
- RD roof drain
- RFH roof hatch
- FRG roofing
- RM room
- RO rough opening
- SPGL safety glass
- SCH schedule
- STG seating
- SECT section
- RAD radius
- REF reference
- RLF reflect (ed), (ing)
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- REG register
- REIN reinforcement (d), (ing)
- RCP reinforced concrete pipe
- REM remove
- RESIL resilient
- RET return
- RA return air
- REV revision(s), reverse(d)
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BMP LEGEND	
PDS 659	BROW DITCH
PDS 659	BERM
DIRECTION OF LOT DRAINAGE	
MATERIALS & WASTE MANAGEMENT BMPs:	
WM-1	MATERIAL DELIVERY & STORAGE
WM-4	SPILL PREVENTION AND CONTROL
WM-8	CONCRETE WASTE MANAGEMENT
WM-5	SOLID WASTE MANAGEMENT
WM-9	SANITARY WASTE MANAGEMENT
WM-6	HAZARDOUS WASTE MANAGEMENT
TEMPORARY RUNOFF CONTROL BMPs:	
SS-2	PRESERVATION OF EXISTING VEGETATION
SS-3	BONDED OR STABILIZED FIBER MATRIX (WINTER)
SS-4	HYDROSEEDING (SUMMER)
SS-6 / SS-8	STRAW OR WOOD MULCH
SS-7	PHYSICAL STABILIZATION (WINTER)
SS-10	ENERGY DISSIPATOR
SC-1	SILT FENCE
SC-2	SEDIMENT / DESILTING BASIN
SC-5	FIBER ROLLS
SC-6 / SC-8	GRAVEL OR SAND BAGS
SC-7	STREET SWEEPING AND VACUUMING
SC-10	STORM DRAIN INLET PROTECTION
NS-2	DEWATERING FILTRATION
TC-1	STABILIZED CONSTRUCTION ENTRANCE
TC-2	CONSTRUCTION ROAD STABILIZATION
TC-3	ENTRANCE / EXIT TIRE WASH
POST-CONSTRUCTION SITE DESIGN BMPs	
4.3.1	MAINTAIN NATURAL DRAINAGE PATHWAYS AND HYDROLOGIC FEATURES
4.3.2	CONSERVE NATURAL AREAS, SOILS, AND VEGETATION
4.3.3	MINIMIZE IMPERVIOUS AREA
4.3.4	MINIMIZE SOIL COMPACTION
4.3.5	IMPERVIOUS AREA DISPERSION
4.3.6	RUNOFF COLLECTION
4.3.7	LANDSCAPING WITH NATIVE OR DROUGHT TOLERANT SPECIES
4.3.8	HARVESTING AND USING PRECIPITATION
POST CONSTRUCTION SOURCE CONTROL BMPs	
4.2.1	PREVENTION OF ILLICIT DISCHARGES INTO THE MS4
4.2.2	STORM DRAIN STENCILING AND POSTING OF SIGNAGE
4.2.3	PROTECTED OUTDOOR MATERIALS STORAGE AREAS
4.2.4	PROTECT MATERIALS STORED IN OUTDOOR WORK AREAS
4.2.5	PROTECT TRASH STORAGE AREAS
4.2.6	ADDNL BMPs BASED ON POTENTIAL RUNOFF POLLUTANTS:
A	ON-SITE STORM DRAIN INLETS
B	INTERIOR FLOOR DRAINS & ELEVATOR SHAFT SUMPS
C	INTERIOR PARKING GARAGES
D	NEED FOR FUTURE INDOOR & STR. PEST CONTROL
E	LANDSCAPE/OUTDOOR PESTICIDE USE
F	POOLS, SPAS, PONDS, FOUNTAINS, & WATER FEATURES
G	FOOD SERVICE
H	TRASH OR REFUSE AREAS
I	INDUSTRIAL PROCESSES
J	OUTDOOR STORAGE OF EQUIP. OR MATERIALS
K	VEHICLE AND EQUIPMENT CLEANING
L	VEHICLE/EQUIPMENT REPAIR AND MAINTENANCE
M	FUEL DISPENSING AREAS
N	LOADING DOCKS
O	FIRE SPRINKLER TEST WATER
P	MISCELLANEOUS DRAIN OR WASH WATER
Q	PLAZAS, SIDEWALKS, DRIVEWAYS, AND PARKING LOTS

SHEET INDEX	
Sheet No.	SHEET NAME
SP-1	SITE PLAN
A1	FLOOR PLAN
A2	ELECTRICAL PLAN
A3	ELEVATIONS - FRONT & BACK
A4	ELEVATIONS - RIGHT & LEFT
A5	ROOF PLAN / TRUSS LAYOUT
A6	SECTIONS
S1	FOUNDATION PLAN
S2	ROOF FRAMING
CS-1	MIN. CONSTRUCTION SPECIFICATIONS

**GENERAL CODES**

THIS PROJECT SHALL COMPLY WITH THE FOLLOWING BUILDING CODES AND ASSOCIATED COUNTY OF SAN DIEGO AMENDMENTS:

- 2019 CALIFORNIA RESIDENTIAL CODE
- 2019 CALIFORNIA BUILDING CODE
- 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE
- 2019 CALIFORNIA ELECTRICAL CODE
- 2019 CALIFORNIA MECHANICAL CODE
- 2019 CALIFORNIA PLUMBING CODE
- 2019 CALIFORNIA FIRE CODE
- 2019 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS

**DESIGN BASIS**

CONVENTIONAL LIGHT FRAME CONSTRUCTION

ROOF LIVE LOAD: 20 PSF  
 ULTIMATE WIND SPEED: 110 MPH  
 EXPOSURE CATEGORY: C  
 SITE CLASS: D  
 RISK CATEGORY: II  
 Spg: 1.25  
 SEISMIC DESIGN CATEGORY: D<sub>s</sub>  
 ALLOW SOIL VERTICAL BEARING PRESSURE: 1500 PSF  
 ALLOW SOIL LATERAL BEARING PRESSURE: 100 PSF/FT

**ENERGY EFFICIENCY SPECIAL FEATURES**

SPECIFY AS INDICATED IN CF1R FORM (TITLE 24):

- 
- 
- 

**ENERGY EFFICIENCY HERS VERIFICATION**

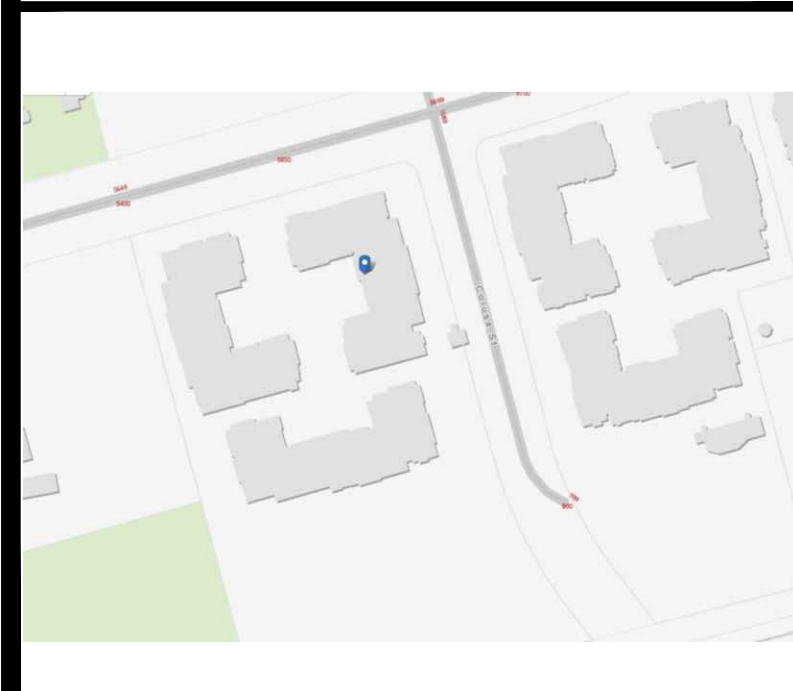
SPECIFY AS INDICATED IN CF1R FORM (TITLE 24):

- DUCT SEALING (Y or N)
- REFRIGERANT CHARGE (Y or N)
- COOLING SYSTEM AIRFLOW (Y or N)
- COOLING SYSTEM UNIT FAN EFFICACY (Y or N)
- COOLING SYSTEM SEER AND/OR EER ABOVE MIN. (Y or N)
- WHOLE-BUILDING VENTILATION AIRFLOW (Y or N)
- BUILDING ENVELOPE AIR LEAKAGE (Y or N)
- QUALITY INSULATION INSTALLATION (Y or N)
- OTHER (SPECIFY BELOW)

PROPERLY COMPLETED AND SIGNED CERTIFICATES OF INSTALLATION (CF2R FORMS) SHALL BE PROVIDED TO THE INSPECTOR IN THE FIELD. FOR PROJECTS REQUIRING HERS VERIFICATION, THE CF2R FORMS SHALL BE REGISTERED WITH A CALIFORNIA-APPROVED HERS PROVIDER DATA REGISTRY. CF2R FORMS ARE AVAILABLE AT [HTTP://WWW.SDCOUNTY.CA.GOV/PDS/BLDG/ENERGY-STDs.HTML](http://www.sdcountry.ca.gov/pds/BLDG/ENERGY-STDs.HTML). (CBES 10-103)

PROPERLY COMPLETED CERTIFICATES OF VERIFICATION (CF3R FORMS) SHALL BE PROVIDED TO THE INSPECTOR IN THE FIELD FOR ITEMS REQUIRING HERS VERIFICATION. CF3R FORMS SHALL BE REGISTERED WITH A CALIFORNIA-APPROVED HERS PROVIDER DATA REGISTRY. CF3R FORMS ARE AVAILABLE AT [HTTP://WWW.SDCOUNTY.CA.GOV/PDS/BLDG/ENERGY-STDs.HTML](http://www.sdcountry.ca.gov/pds/BLDG/ENERGY-STDs.HTML). (CBES 10-103)

**VICINITY MAP**



**OWNER INFORMATION**

NAME: CHESTER HOWE

ADDRESS: 5605 FRIARS RD # 306, SAN DIEGO, CA 92110

PHONE: 1 (619) 992-3709

EMAIL: CHESTERHOWE@ZOHOMAIL.COM

**CONTACT INFORMATION**

NAME: CHESTER HOWE

ADDRESS: 5605 FRIARS RD # 306, SAN DIEGO, CA 92110

PHONE: 1 (619) 992-3709

EMAIL: CHESTERHOWE@ZOHOMAIL.COM

**PARCEL INFORMATION**

APN: 436-611-15-38

SITE ADDRESS: 5605 Friars Rd Unit 306 San Diego, CA 92110  
 PROPERTY CONNECTED TO THE ELECTRICAL GRID (Y or N)

PROPERTY SERVICED BY PROPANE (Y or N) IF YES, SHOW TANK ON PLOT PLAN

PROPERTY SERVICED BY NATURAL GAS (Y or N)

ENTIRE LOT IS FUEL MODIFIED (Y or N) IF NO, DIMENSION 100' FUEL MODIFICATION ZONE

**PERVIOUS AREA INFORMATION**

PERVIOUS SURFACE AREA TABLE				
SITE ID	PERVIOUS ITEM	DIMENSIONS	AREA (sf)	NOTES

PERVIOUS ELEMENT MANUFACTURER: \_\_\_\_\_  
 PERVIOUS ELEMENT SLOPE AND DIRECTION OF SLOPE: \_\_\_\_\_  
 MAINTENANCE PROGRAM: \_\_\_\_\_  
 PERVIOUS ELEMENT CROSS SECTION LOCATED IN SHEET: \_\_\_\_\_

CONSTRUCTED PERVIOUS SURFACES SHALL NOT BE SEALED

**IMPERVIOUS AREA INFORMATION**

IMPERVIOUS SURFACE AREA TABLE				
SITE ID	IMPERVIOUS ITEM	DIMENSIONS	NEW OR REPLACED AREA (sf)	EXISTING AREA (sf)
1				
2				
3				
4				

LAND DISTURBANCE: \_\_\_\_\_ SF

**SHEET TITLE**

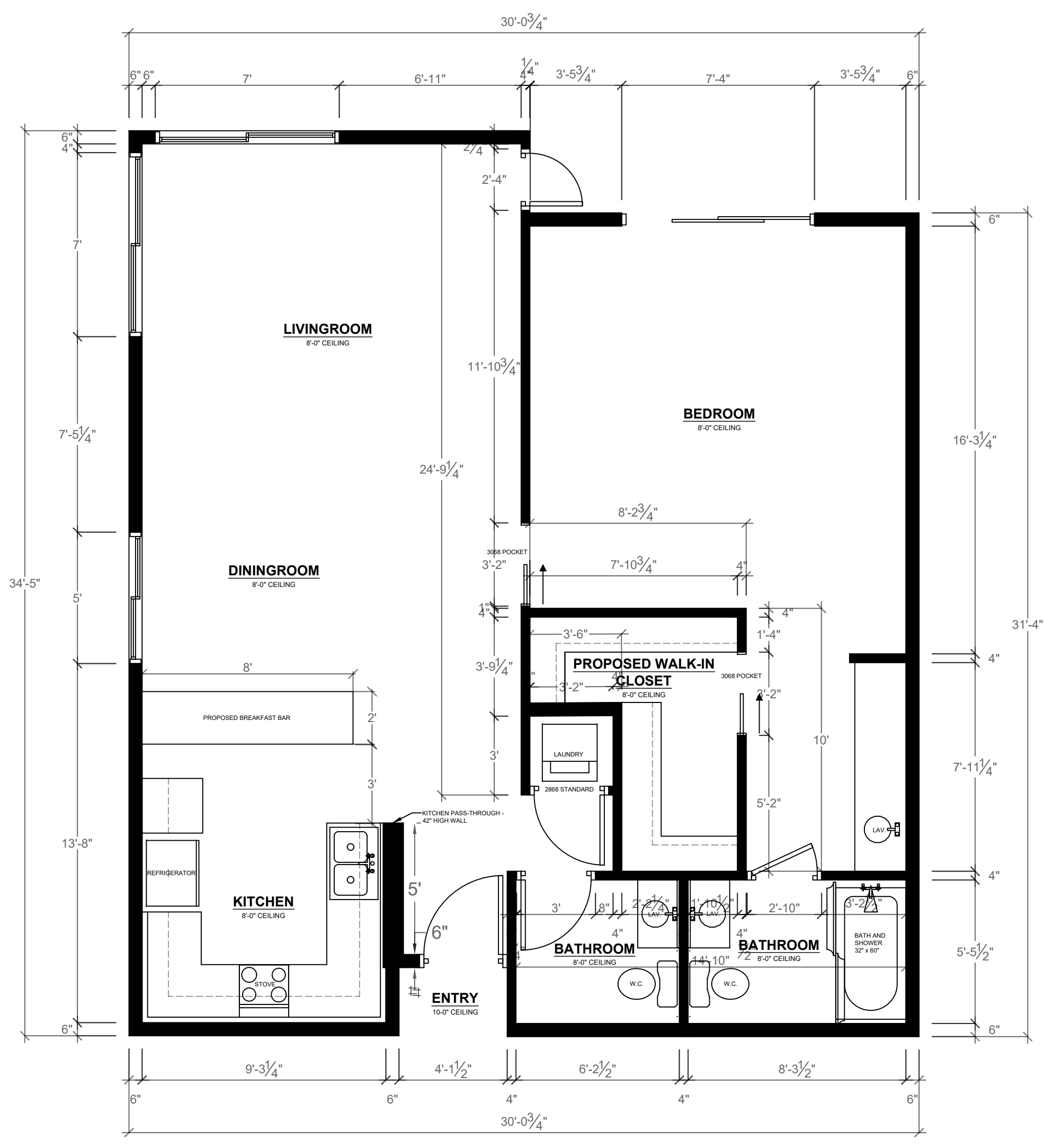
**SITE PLAN**

**SHEET NUMBER**

**SP-1**







**PROPOSED THIRD LEVEL UNIT #306-FLOOR/DIMENSION PLANS**



WINDOW SCHEDULE				
MARK	DIMENSION	TYPE	TEMPERED	NOTES
	6'-0" x 6'-0"	PICTURE		
	6'-0" x 6'-0"	PICTURE		
	6'-0" x 6'-0"	PICTURE	Y	
	6'-0" x 6'-0"	PICTURE		
	6'-0" x 6'-0"	PICTURE		
	6'-0" x 6'-0"	PICTURE		

DOOR SCHEDULE				
MARK	DIMENSION	TYPE	TEMPERED	NOTES
①	3'-0" x 6'-8"	STANDARD		1-3/8" SOLID CORE
②	3'-0" x 6'-8"	STANDARD		4FT CLOSET
③		BI-FOLD		6FT CLOSET
④		POCKET	Y	BATHROOM
⑤		POCKET	Y	BATHROOM

**WALL LEGEND**

	2 X 4 WALL PROPOSED		NON-PERMITTED		EXISTING PERMITTED
	2 X 6 WALL PROPOSED		TO BE REMOVED		ASPHALT
	2 X 8 WALL PROPOSED		DECK		PAVING/CONCRETE
	2 X 4 WALL EXISTING		CONCRETE		ADA COMPLIANCE
	2 X 6 WALL EXISTING				
	2 X 8 WALL EXISTING				

EXTERIOR WINDOWS, EXTERIOR GLAZED DOORS, GLAZED OPENINGS WITHIN EXTERIOR DOORS, GLAZED OPENINGS WITHIN EXTERIOR GARAGE DOORS, AND EXTERIOR STRUCTURAL GLASS VENEER SHALL COMPLY WITH ONE OF THE FOLLOWING (SELECT ONE)  
 A. MULTIPANE GLAZING WITH A MINIMUM OF ONE TEMPERED PANE MEETING THE REQUIREMENTS OF SECTION 2406 SAFETY GLAZING, AND WHERE ANY GLAZING FRAMES MADE OF VINYL MATERIALS SHALL HAVE WELDED CORNERS, METAL REINFORCEMENT IN INTERLOCK AREA, AND BE CERTIFIED TO ANIAW/MANCSA 1011(S) 2140  
 B. MINIMUM 20-MIN FIRE-RESISTANCE-RATED  
 C. MEET PERFORMANCE REQUIREMENTS OF SPM STANDARD 12-7A-2

EXTERIOR DOORS SHALL COMPLY WITH ONE OF THE FOLLOWING (SELECT ONE)  
 A. EXTERIOR SURFACE OR GLAZING OF NON-COMBUSTIBLE OR IGNITION-RESISTANT MATERIAL  
 B. SOLID CORE WOOD COMPLYING WITH THE FOLLOWING:  
 - STILES AND RAILS MINIMUM 1-3/8 INCHES THICK  
 - RAISED PANELS MINIMUM 1-1/4 INCHES THICK  
 EXCEPTION: EXTERIOR PERIMETER OF RAISED PANEL MAY TAPER TO A TONGUE MINIMUM 3/8 INCHES THICK  
 C. MINIMUM 20-MIN FIRE-RATED WHEN TESTED PER NFPA 252  
 D. MEET PERFORMANCE REQUIREMENTS OF SPM STANDARD 12-7A-1

FLOOR PLAN NOTES

OPTIONAL ROLL-IN SHOWER PLAN NOTES

**PROPOSED REMODEL FOR  
 CHESTER HOWE  
 5605 FRIARS RD # 306,  
 SAN DIEGO, CA 92110**

**FLOOR PLAN**

No.	Revision/Issue	Date
1	CLIENT REVIEW	6/21/2023
2	ARJL	
3	PLAN CHECK	
4	CORRECTIONS	
5	PERMIT	
6		
7		

**ADVANCED DEVELOPMENT**  
 RESIDENTIAL COMMERCIAL INDUSTRIAL

7877 GARDEN AVE SUITE 106  
 LA JOLLA, CA 92037  
 LICENSE# 905815  
 EMAIL: INFO@ADVANCEDDEVELOPMENT.NET  
 WEBSITE: WWW.ADVANCEDDEVELOPMENT.NET

Project	436611538	Sheet	<b>A1.2</b>
Date	06/2023		
Scale			

UTILITY PLAN NOTES

LIGHTING PLAN NOTES

SOLAR READY KEY NOTES

GENERAL ELECTRICAL NOTES

#	DESCRIPTION
1	GENERAL CONTRACTOR SHALL VERIFY FIELD CONDITIONS BEFORE SUBMITTING BID.
2	ALL WORK SHALL BE DONE IN ACCORDANCE WITH 2019 NEC, AS AMENDED BY 2019 ELECTRICAL CODE, 2019 ENERGY CODE AND ANY ADDITIONAL STATE OR LOCAL CODES WHICH MAY APPLY.
3	GENERAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, CERTIFICATES, ETC. REQUIRED.
4	GENERAL CONTRACTOR SHALL OBTAIN AND PAY FOR BOTH ROUGH AND FINAL UNDER-WRITERS OR OTHER APPROVED INSPECTION AGENCY CERTIFICATES "ELECTRICAL INSPECTION". THESE CERTIFICATES SHALL BE PRESENTED WITH REQUEST FOR FINAL PAYMENT.
5	IT IS THE INTENT OF THESE PLANS TO PROVIDE A COMPLETE OPERATING ELECTRICAL SYSTEM. THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL WIRING, EQUIPMENT, MATERIAL, ETC. REQUIRED, EXCEPT WHERE SPECIFICALLY NOTED AS BEING FURNISHED BY OTHERS. SHOULD THERE BE ANY QUESTIONS CONCERNING RESPONSIBILITY, THEY SHALL BE ADDRESSED TO ARCHITECT PRIOR TO BID. NO EXTRA CHARGES WILL BE ALLOWED.
6	ELECTRICAL SERVICE SHALL BE COORDINATED WITH THE EXISTING FIELD CONDITIONS.
7	CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO ALL CONTROLS, OWNER-SUPPLIED EQUIPMENT, MECHANICAL AND PLUMBING EQUIPMENT AS REQUIRED.
8	REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATION DETAILS. ALL FIXTURE AND DEVICE LOCATIONS SHOWN ON ARCHITECTURAL DRAWINGS SUPERSEDE THOSE SHOWN ON ELECTRICAL PLANS.
9	CIRCUIT NUMBER ON THE DRAWINGS ARE FOR IDENTIFICATION ONLY AND DO NOT INDICATE THE POSITION ON THE PANEL BOARD. CONNECT THE CIRCUITS WITH THE LIGHTEST LOADS AND THE RECEPTACLE CIRCUITS NEAR THE TOP OF THE PANEL, AND THE MORE HEAVILY LOADED CIRCUITS NEAR THE BOTTOM. BALANCE ALL CIRCUITS EVENLY BETWEEN PHASE SO THAT FEEDER WIRES CARRY APPROXIMATELY EQUAL CURRENT. ALL PHASES MUST BE BALANCED WITHIN 10% OR LESS. G.C. SHALL REBALANCE IF NECESSARY.
10	BRANCH CIRCUIT CONDUCTOR INSULATION SHALL BE COLOR CODED AND SHALL BE 600 VOLT, TYPE THHN/THWN.
11	CABLES IN HIGH TEMPERATURE AREAS SHALL HAVE INSULATION TYPE SUITABLE FOR THE TEMPERATURE. CABLES USED IN SPACES FOR ENVIRONMENTAL AIR SHALL CONFORM WITH APPLICABLE N.E.C. REQUIREMENTS.
12	ALL WIRING USED IN RETURN OR DISCHARGE AIR PLENUMS SHALL BE PLENUM RATED OR INSTALLED PER METHODS APPROVED BY THE LATEST EDITION OF THE N.E.C. FOR SUCH APPLICATION.
13	ALL WIRE AND CABLE CONDUCTORS SHALL BE COPPER WITH INSULATION RATED 600V. CONDUCTORS SIZED #10 AWG AND SMALLER SHALL BE SOLID OR STRANDED, AND CONDUCTORS SIZED LARGER THAN #10 AWG SHALL BE STRANDED WIRE.
14	BRANCH CIRCUITS FOR POWER AND LIGHTING SHALL NOT BE LESS THAN #12 AWG, OR AS NOTED. WIRES ARE TO BE SIZED FOR THE APPROPRIATE VOLTAGE DROPS. SEE WIRE SIZE SCHEDULE ON THIS SHEET.
15	ALL DATA CABLES SHALL BE "CAT6, PLENUM RATED," TO BE PROVIDED BY OWNER SELECTED VENDOR. ELECTRICAL WORK SHALL BE TO PROVIDE OUTLET BOXES AND "RING AND STRING" FOR PULLING OF CABLES IN CONCEALED SPACES.
16	CONTROL WIRING SHALL NOT BE LESS THAN #14 AWG UNLESS OTHERWISE NOTED.
17	HOMERUNS SHOWN ARE SCHEMATIC. CONTRACTOR MAY ORIGINATE HOMERUNS FROM DIFFERENT LOCATIONS. ALL WIRE INCLUDING HOMERUNS SHALL BE DELINEATED ON AS-BUILT DRAWINGS.
18	ALL WIRING INSTALLED UNDER THIS CONTRACT SHALL BE TESTED FOR PROPER CONNECTIONS AND SHORT CIRCUITS PRIOR TO THE TURNING OVER OF WORK AS A COMPLETE UNIT.
19	PROVIDE ALL ELECTRICAL SYSTEM GROUNDING IN ACCORDANCE WITH N.E.C. REQUIREMENTS EVEN IF IT IS NOT SHOWN ON THE DRAWINGS. INCLUDE ADDITIONAL GROUNDING CONDUCTORS IN ALL RACEWAYS EVEN THROUGH THE DRAWINGS SHOW ONLY CIRCUIT AND/OR NEUTRALS CONDUCTORS. THE PLUMBING AND PIPING SYSTEM SHALL NOT BE USED AS A GROUND. ALL TRANSFORMER NEUTRALS SHALL BE GROUND TO BUILDING STEEL IN ACCORDANCE WITH NEC 250-70.
20	ALL CONDUITS PASSING THROUGH PARTITIONS ARE TO BE APPROPRIATELY SLEEVED AND SEALED.
21	FURNISH AND INSTALL ALL CONDUIT WITH PULL WIRES AS REQUIRED. ALL OUTLET BOXES SHALL BE STEEL, EXTRA DEEP WITH GROUNDING PIGTAILS. GROUNDING PUSH-CLIPS ARE NOT ACCEPTABLE.
22	ALL PENETRATIONS SHALL BE INSTALLED AND SEALED PER NATIONAL STATE AND LOCAL CODES.
23	DO NOT MAKE ANY CHANGES OR SUBSTITUTIONS WITHOUT SPECIFIC WRITTEN APPROVAL FROM THE ARCHITECT OR ENGINEER.
24	GUARANTEE ALL WORK, MATERIAL AND EQUIPMENT FOR A PERIOD OF ONE YEAR FROM THE DATE OF APPROVAL AND FINAL ACCEPTANCE.
25	THIS DESIGN IS BASED ON INITIAL DESIGN DATA. GENERAL CONTRACTOR TO SUPPLY AND INSTALL FEEDERS, FUSES AND CIRCUIT BREAKERS TO MATCH THE NAMEPLATE RATING OF ALL EQUIPMENT. THIS SHALL BE INCLUDED IN THE INITIAL BID PROPOSAL AND NO EXTRAS SHALL BE ENTERTAINED.
26	LABEL ALL JUNCTION BOXES, OUTLETS, LIGHT SWITCH, ETC. WITH CIRCUIT NUMBER ON INTERIOR OR COVER PLATE. USE SELF-ADHESIVE "DYMO" LABEL 1/8" HIGH LETTERS.
27	GENERAL CONTRACTOR SHALL PROVIDE SEISMIC RESTRAINTS AND SUPPORTS FOR ALL FLOOR, WALL, AND CEILING MOUNTED ELECTRICAL EQUIPMENT TO RESIST EARTHQUAKE EFFECTS DETERMINED IN ACCORDANCE WITH THE BUILDING CODE.
28	THE G.C. SHALL PROVIDE ALL EQUIPMENT, MATERIALS AND LABOR TO COMPLETE ALL ELECTRICAL WORK IN A NEAT AND WORKMANLIKE MANNER AND IN ACCORDANCE WITH GOOD COMMERCIAL PRACTICE INCLUDING THE INSTALLATION OF ALL THE EQUIPMENT MATERIALS AND SYSTEMS AND THE FINAL CONNECTIONS TO THE OWNER'S EQUIPMENT AND FIXTURES AS REQUIRED BY THE OWNER. THE G.C. SHALL ALSO FURNISH TEMPORARY WIRING AND LIGHTING TO PROVIDE A MINIMUM OF 25 FC IN WORK AREAS FOR USE OF ALL THE TRADES DURING CONSTRUCTION AND THE INSTALLATION OF THE OWNERS FIXTURES. THE G.C. IS RESPONSIBLE TO REMOVE ALL TEMPORARY WIRING UPON COMPLETION OF CONSTRUCTION OF ALL TRADES.
29	THIS CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL SUPPLEMENTARY SUPPORT, INCLUDING SUPPORT STEEL AS REQUIRED TO HANG ALL EQUIPMENT AND LIGHTING FROM THE EXISTING STRUCTURE IN ACCORDANCE WITH THE ARCHITECTURAL/STRUCTURAL SUPPORT AND CRITERIA.
30	IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO PROVIDE FULLY DIMENSIONED COORDINATION DRAWINGS FOR ALL OF HIS RESPECTIVE WORK. THESE DRAWINGS MUST BE FULLY COORDINATED WITH ALL EXISTING CONDITIONS: ALL HVAC, PLUMBING, FIRE PROTECTION, ELECTRICAL, LIGHTING, STRUCTURAL AND ARCHITECTURAL SYSTEMS PRIOR TO PREPARING COMPOSITE MULTI-DISCIPLINE COORDINATION DRAWINGS.
31	ALL DISCONNECTING MEANS AND EQUIPMENT INDICATED ON THE DRAWING SHALL BE IDENTIFIED BY NAMEPLATE IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE 110-22.
32	ALL WIRING FOR THE EMERGENCY LIGHTING AND EMERGENCY SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE ARTICLE 700.
33	THE WIRING METHODS AND MATERIALS INDICATED IN THE SPECIFICATIONS AND ON THE DRAWINGS SHALL BE INSTALLED AND CONNECTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE ARTICLE 300.

GENERAL ELECTRICAL NOTES

#	DESCRIPTION
33	THE WIRING METHODS AND MATERIALS INDICATED IN THE SPECIFICATIONS AND ON THE DRAWINGS SHALL BE INSTALLED AND CONNECTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE ARTICLE 300.
34	THE ELECTRICAL SERVICE AND DISTRIBUTION SYSTEM AS INDICATED ON THE RISER DIAGRAM AND MATERIALS INDICATED IN THE SPECIFICATIONS SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE ARTICLE 230, SERVICES.
35	ALL OVER CURRENT PROTECTION SHALL BE IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE SECTION 240, OVERCURRENT PROTECTION.
36	ALL GROUNDING REQUIREMENTS OF THE COMPLETE ELECTRICAL DISTRIBUTION SYSTEM AND AS INDICATED IN THE SPECIFICATIONS SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE ARTICLE 250, GROUNDING AND BONDING.
37	PRIOR TO ANY REQUIRED "CUTTING AND PATCHING OF CONCRETE FLOOR" AND/OR CUTTING OF ROOF, CONTRACTOR SHALL COORDINATE WITH BUILDING ENGINEER FOR ALL LIGHTING FIXTURES MOUNTED IN HUNG CEILING. THE GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL INDIVIDUAL SUPPORT AT EACH CORNER OR CROSSED LIGHTING TRAFFER CONNECTED TO BUILDING STEEL ABOVE ALL CONDUIT AND MC CABLE MOUNTED ABOVE HUNG CEILING SHALL BE INDIVIDUALLY SUPPORTED IN THE SAME FASHION AS PER NEC REQUIREMENTS.
38	DO NOT SCALE FROM THESE DRAWINGS.
39	PLANS ARE PREPARED WITH REQUIRED BRANCH CIRCUITS INDICATED BY CIRCUIT NUMBERS. PROVIDE AND INSTALL ALL CONDUITS, CONDUCTORS, BOXES, MISCELLANEOUS FITTINGS, ETC. FOR A COMPLETE AND OPERABLE SYSTEM (HOME RUN SHOWN). BRANCH CIRCUIT INSTALLATION SHALL COMPLY WITH SPECIFICATIONS AND N.E.C.
40	ELECTRICAL RECEPTACLE SWITCH AND CONTROL HEIGHTS (CBC-1136A.1).
41	RECEPTACLE HEIGHTS: ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUITS OF 30 AMPERES OR LESS AND COMMUNICATING SYSTEM RECEPTABLES SHALL BE LOCATED NO MORE THAN 48 INCHES (1219MM) MEASURED FROM THE TOP OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING NOR LESS THAN 15 INCHES (381MM) MEASURED FROM THE BOTTOM OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING TO THE LEVEL OF FINISHED FLOOR OR WORKING PLATFORM. IF THE REACH IS OVER AN OBSTRUCTION (FOR EXAMPLE, A KITCHEN BASE CABINET) BETWEEN 20 AND 25 INCHES (508 AND 635MM) IN DEPTH, THE MAXIMUM HEIGHT MEASURED AT THE BOX IS REDUCED TO 44 INCHES (1118MM) FOR FORWARD APPROACH, OR 46 INCHES (1168MM) FOR SIDE APPROACH, PROVIDED THE OBSTRUCTION IS NO MORE THAN 24 INCHES (610MM) IN DEPTH. OBSTRUCTION SHALL NOT EXCEED MORE THAN 25 INCHES (635MM) FROM THE WALL BENEATH THE RECEPTACLE.
42	SWITCH AND CONTROL HEIGHTS: (CBC-1136A.2). CONTROL OR SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES, ALARMS OR COOLING, HEATING AND VENTILATING EQUIPMENT SHALL BE LOCATED NO MORE THAN 48 INCHES (1219MM) MEASURED FROM THE TOP OF THE OUTLET BOX NOR LESS THAN 15 INCHES (381MM) MEASURED FROM THE BOTTOM OF THE OUTLET BOX TO THE LEVEL OF THE FINISHED FLOOR OR WORKING PLATFORM. IF THE REACH IS OVER A PHYSICAL BARRIER OR AN OBSTRUCTION (FOR EXAMPLE, A KITCHEN BASE CABINET) BETWEEN 20 AND 25 INCHES (508 AND 635MM) IN DEPTH, THE MAXIMUM HEIGHT IS REDUCED TO 44 INCHES (1118MM) FOR FORWARD APPROACH, OR 46 INCHES (1168MM) FOR SIDE APPROACH, PROVIDED THE OBSTRUCTION IS NO MORE THAN 24 INCHES (610MM) IN DEPTH. PHYSICAL BARRIERS OR OBSTRUCTIONS SHALL NOT EXTEND MORE THAN 25 INCHES (635MM) FROM THE WALL BENEATH A CONTROL.

ELECTRICAL LEGEND

	LED WALL FIXTURE (OR MANUFACTURER'S RECOMMENDED SURFACE CEILING FIXTURE)		LED EXTERIOR WALL FIXTURE (OR MANUFACTURER'S RECOMMENDED EXTERIOR WALL FIXTURE)
	RECESSED LED JUNCTION BOX (OR MANUFACTURER'S RECOMMENDED SURFACE CEILING JUNCTION BOX)		HARDWIRED SMOKE/CO DETECTOR (MOUNTED ON ALARM AT ONE IS ALARM AT ALL)
	CEILING MOUNTED JUNCTION BOX		HARDWIRED SMOKE DETECTOR (MOUNTED ON ALARM AT ONE IS ALARM AT ALL)
	LED LIGHT/FAN COMBO. SEE NOTES AT COVER/FAN SYMBOL.		200 AMP ELEC. METER AND DISCONNECT (SEE NOTES REGARDING GROUND ROD, MAIN ELECTRIC SERVICE AND UNDERGROUNDING)
	THERMOSTAT		AIR CONDITIONING COMPRESSOR/CONDENSER
	PHONE JACK		CEILING MOUNTED LIGHT/FAN WIRE SWITCH/ADAPTER (OR WIRE SWITCH MOUNTED TO OUTLET BOX)
	TELEVISION CABLE OUTLET		DEDICATED CIRCUIT (20 AMP)
	120 VOLT DUPLEX OUTLET		PUSH BUTTON
	120 VOLT DUPLEX GROUND-FLOOR DUPLEX OUTLET		AUTO-OFF MOTOR SENSOR SWITCH (SEE NOTES BELOW)
	120 VOLT SINGLE FLOOR OUTLET		SINGLE POLE SWITCH
	120 VOLT CEILING OUTLET		DIMMER SWITCH
	120 VOLT DUPLEX GROUND FLOOR INTERRUPT DUPLEX OUTLET		SINGLE POLE 3-WAY SWITCH
	240 VOLT OUTLET		3-WAY DIMMER SWITCH
	UNDERCOUNTER OR SHELF 120 VOLT DUPLEX GROUND INTERRUPT DUPLEX OUTLET		4-WAY DIMMER SWITCH
	120 VOLT DUPLEX GROUND INTERRUPT DUPLEX OUTLET		240 VOLT BREAKER WITH FUSED DISCONNECT FOR AIR CONDITIONING CONDENSER
	120 VOLT DUPLEX OUTLET (ARC FAULT INTERRUPT)		DOORBELL CHIMES
	1/2 HPF 120 VOLT DUPLEX OUTLET (ARC FAULT INTERRUPT)		EXHAUST FAN TO OUTSIDE AIR EXHAUST FAN (SEE NOTES REGARDING PERM. AIR)
	1/2 HPF 120V COMMENCEMENT OUTLET		3-WAY DIMMER SWITCH
	3-WAY DIMMER SWITCH		HIGH SPEED DATA LINE
	RECEPTACLE		FLOOR MOUNTED TEL. JACK
	DIMMER SWITCH		THERMOSTAT CONTROL
	SURFACE LIGHTING OUTLET (CEILING)		DUPLEX OUTLET RECESSED INTO WALL
	DOWN LIGHTING FIXTURE		FLOOR MOUNTED OUTLET
	POWER TRACK AND HEADS		FLOOR MOUNTED OUTLET
	DOOR CHIME		DOORBELL
	EXHAUST FAN		WATERPROOF OUTLET(EXTERIOR)
	FAN/LIGHT COMBINATION		2\"/>
	HEAT LAMP		2\"/>
	SMOKE DETECTOR		2\"/>
	TV OUTLET		2\"/>
	PHONE OUTLET		2\"/>

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	SINGLE POLE SWITCH AND BOX, WALL MOUNTED +44" AFF. LOWER CASE LETTER INDICATES CIRCUIT CONTROLLED BY SWITCH.
	WALL MOUNTED DIMMER SWITCH, 0-10V DIMMING WITH ON-OFF SWITCH.
	WALL MOUNTED 3 WAY ON, CENTER OFF LOW VOLTAGE SWITCH FOR LCP CONTROLLER LIGHTS.
	RECEPTACLE, DUPLEX 20A, 120V GRD, NEMA 5-20R +18" AFF U.O.N. (WP=WEATHERPROOF, GFI=GROUND FAULT CIRCUIT INTERRUPTER)
	DEDICATE RECEPTACLE, DUPLEX 20A, 120V GRD, NEMA 5-20R +18" AFF U.O.N. (WP=WEATHERPROOF, GFI=GROUND FAULT CIRCUIT INTERRUPTER)
	US3 US3 RECEPTACLE, DUPLEX 20A, 120V GRD, NEMA 5-20R +42" AFF U.O.N.
	RECEPTACLE, SINGLE, 20A, 120V GRD, NEMA 5-20R +18" AFF UON
	RECEPTACLE, DOUBLE DUPLEX (2) 20A, 120V, GRD - NEMA (2) 5-20R +18" AFF U.O.N.
	RECEPTACLE DUPLEX 20A, 120V GRD NEMA 5-20R FLOOR MOUNTED.
	RECEPTACLE DOUBLE DUPLEX (2) 20A, 120V GRD, NEMA 5-20R UON. FLOOR MOUNTED.
	2 PORT VOICE/ DATA OUTLET, WALL MOUNT +18" AFF PROVIDE RING & STRING TO PULL CABLES THRU HOLLOW WALL. VOICE/ DATA WIRING BY TELECOM SYSTEM INSTALLER.
	TV OUTLET, WALL MOUNT +60" AFF PROVIDE RING & STRING TO PULL CABLES THRU HOLLOW WALL.
	COMBINATION 4-PLX RECEPTACLE, NEMA 5-20R DOUBLE DUPLEX (1) DUPLEX AUTO CONTROLLED BY OCCUPANCY SENSOR PER T24, (1) DUPLEX UNCONTROLLED), & TYPE 6 VOICE/DATA OUTLET, FLOOR MOUNTED. PROVIDE MIN. 3/4" TEL/DATA CONDUIT WITH PULL WIRES.
	4-PLX RECEPTACLE, NEMA 5-20R DOUBLE DUPLEX (1) DUPLEX AUTO CONTROLLED BY OCCUPANCY SENSOR PER T24, (1) DUPLEX UNCONTROLLED), +18" AFF. U.O.N. SEE NOTE 2.
	DUPLEX RECEPTACLE, NEMA 5-20R OCCUPANCY SENSOR CONTROLLED, +18" AFF. SEE NOTE 2.
	GFCI DUPLEX RECEPTACLE ABOVE COUNTER LEVEL, NEMA 5-20R.
	GFCI DUPLEX RECEPTACLE ABOVE COUNTER LEVEL, VACANCY SENSOR CONTROLLED, NEMA 5-20R.
	SPECIAL PURPOSE CONNECTION FOR ELECTRICAL EQUIPMENT. VERIFY CONNECTION TYPE AND WIRING REQUIREMENTS PRIOR TO RIGUP-IN.
	CLASS 1, DIVISION 1 RATED EXPLOSION-PROOF OUTLET. SEE ADDITIONAL NOTES ON SHEET E3.1.
	RECEPTACLE, 120V/240V, 3PH, 4W, GRD, RATING AS INDICATED IN PLANS.
	RECEPTACLE 20A, 480V, 3PH, 4W, GRD, NEMA L22-20R, +18" AFF UON.
	DUPLEX RECEPTACLE 20A, 120V, GND (5-20R U.O.N.), SUSPENDED BY TYPE S.O. CORD WITH GRIPS AT EACH END.
	DOUBLE DUPLEX RECEPTACLE 20A, 120V, GND (5-20R U.O.N.), SUSPENDED BY TYPE S.O. CORD WITH GRIPS AT EACH END.
	TWIST-LOCK RECEPTACLE 20, 250V, SINGLE PHASE (16-20R U.O.N.), SUSPENDED BY TYPE S.O. CORD WITH GRIPS AT EACH END.
	OCCUPANCY SENSOR LOW VOLTAGE CEILING MOUNTED FOR ROOM CONTROLLER.
	OCCUPANCY SENSOR LOW VOLTAGE WALL MOUNTED FOR ROOM CONTROLLER.
	CEILING MOUNTED DAYLIGHT SENSOR.
	JUNCTION BOX CEILING MOUNTED, SIZE TO CODE, TAPE AND TAG WIRES.
	JUNCTION BOX WALL MOUNTED, SIZE TO CODE, TAPE AND TAG WIRES.
	ELECTRICAL PANELBOARD, SURFACE OR FLUSH MOUNTED (277/480V).
	ELECTRICAL PANELBOARD, SURFACE OR FLUSH MOUNTED (120/208V).
	SPECIAL PURPOSE ELECTRICAL PANELBOARD, SURFACE OR FLUSH MOUNTED.
	TRANSFORMER - DRY TYPE.
	FUSED DISCONNECT SWITCH WITH DUAL ELEMENT FUSES. SWITCH AND FUSES RATING PER NAMEPLATE OF SERVED UNIT.
	NON-FUSED DISCONNECT SWITCH, RATING PER NAMEPLATE OF SERVED UNIT.
	MAGNETIC MOTOR STARTER, NEMA RATING AS REQUIRED PER SERVED UNIT.
	WALL MOUNTED JUNCTION BOX FOR PRE-WIRED FURNITURE POWER SYSTEM CONNECTION. PROVIDE POWER WHIP WITH TERMINATION PLUS TO MATCH FURNITURE SYSTEM CONNECTOR. LOCATE BOX AS LOW AS POSSIBLE. FIELD COORDINATE FINAL LOCATION.
	COMBINATION TELEPHONE AND DATA OUTLET, WALL MOUNTED AS LOW AS POSSIBLE FOR FLEXIBLE CONNECTION TO FURNITURE SYSTEM.
	FLOOR MOUNTED FURNITURE FEEDS W/POWER & TELE/DATA PORT CAPACITY FOR ELECTRIFIED DESKS PER CLIENT'S REQUIREMENTS.
	POWER POLES W/POWER & TELE/DATA PORT CAPACITY FOR ELECTRIFIED DESKS PER CLIENT'S REQUIREMENTS.
	Smoke Detector
	Carbon Monoxide Detector
	LEGEND NOTES: 1. MOUNTING HEIGHT INDICATED ARE AFF TO CENTER OF PLATE. 2. INCREASE OF CONFLICT, GENERAL NOTES 41 & 42 SHALL PREVAIL. 3. NOT ALL SYMBOLS AND ABBREVIATIONS ARE NECESSARILY USED IN THIS PROJECT.

WIRE SCHEDULE AND NOTES

LOAD PER PH (KVA)	WIRE SIZE (AWG)	MAXIMUM LENGTH OF BRANCH CIRCUIT PER UTILIZATION VOLTAGE	NOTES AND REMARKS
		(120, 1PH, MAX V.D. 3%)	
		(240, 1PH, MAX V.D. 3%)	
		(240, 3PH, MAX V.D. 3%)	
< 1.92	#12	56 FT	5
	#10	94 FT	5
	#8	144 FT	5
	#6	230 FT	5
< 1.44	#12	75 FT	5
	#10	125 FT	5
	#8	192 FT	5
	#6	306 FT	5
< 1.26	#12	86 FT	5
	#10	143 FT	5
	#8	220 FT	5
	#12	100 FT	5
< 1.08	#10	167 FT	5
	#8	256 FT	5
< 0.9	#12	120 FT	5
	#10	200 FT	5
< 0.72	#12	150 FT	5
	#10	250 FT	5

ABBREVIATIONS AND TAGS

ABB.	DESCRIPTION	ABB.	DESCRIPTION
EWH	ELECTRIC WATER HEATER	SD	SMOKE DETECTOR
(E)	EXISTING TO REMAIN	TEL	TELEPHONE
EC	ELECTRICAL CONTRACTOR	TX	TRANSFORMER
ELV	ELECTRICAL VEHICLE CHARGING	TV	TELEVISION
FMT	FLEXIBLE METALLIC TUBING	UAC	UNDER ANOTHER CONTRACT
GC	GENERAL CONTRACTOR	UAS	UNDER ANOTHER SECTION
GFI	GROUND FAULT INTERRUPTER	UON	UNLESS OTHERWISE NOTED
IG	ISOLATED GROUND	V.D.	VOLTAGE DROP
LL	LANDLORD	W	WIRE
LV	LOW VOLTAGE	WP	WEATHERPROOF
	MECHANICAL TAG. SEE MECHANICAL DRAWINGS FOR ADDITIONAL DESCRIPTION.		DETAIL TAG. REFER TO DETAIL ON SHEET NUMBER E-4.

SHEET INDEX

ELECTRICAL DRAWINGS

E0 - COVER

E1.0 - FLOOR PLANS, LIGHTING

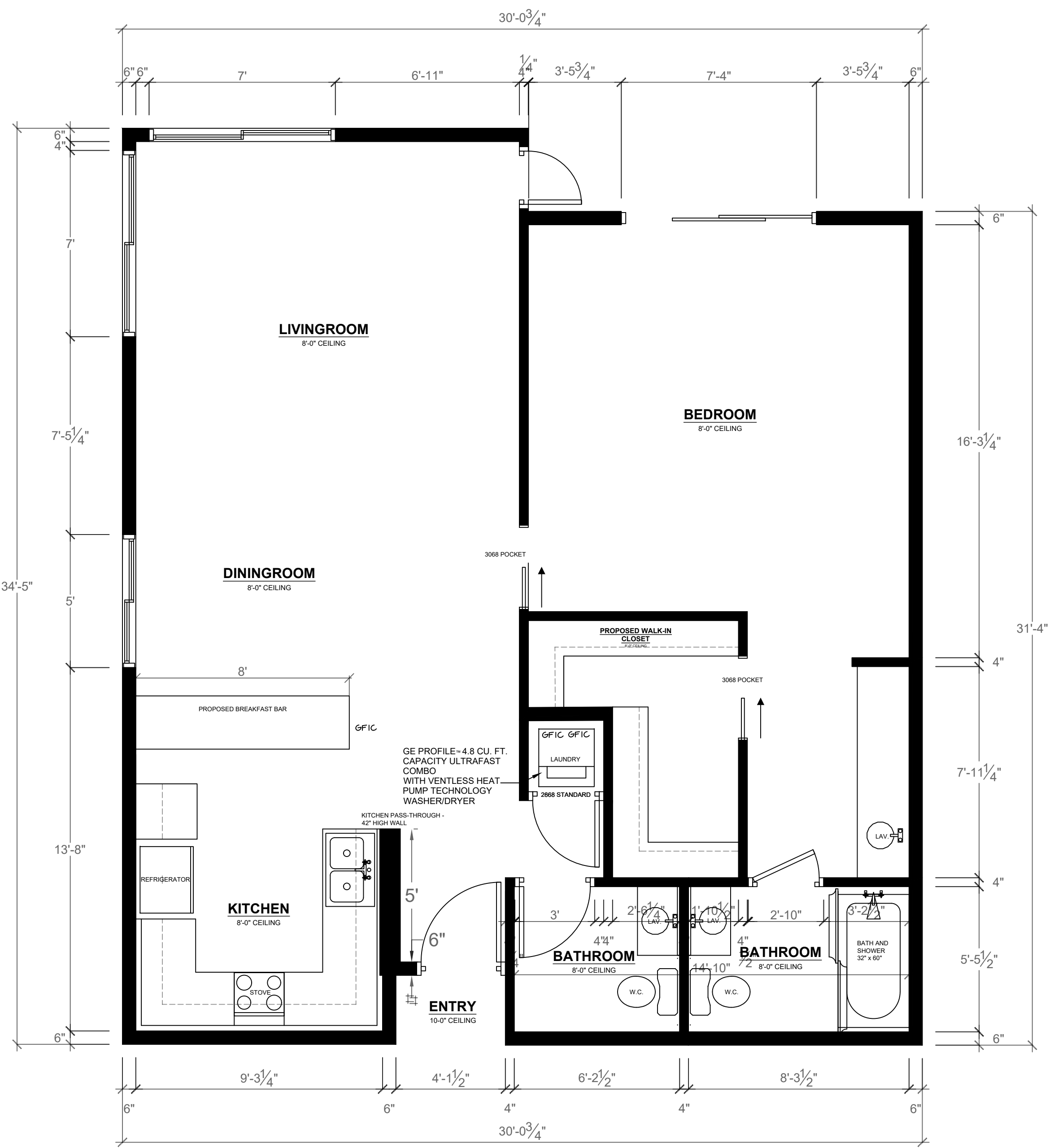
NOTE: NOT ALL OF THE PAGES ARE NECESSARILY USED IN THIS WORK.

PLAN DESIGN NOTES

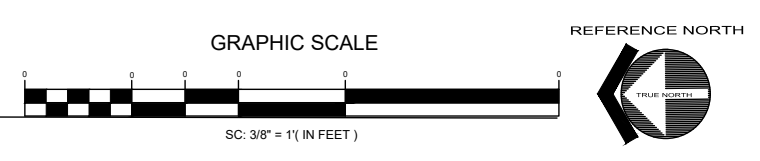
PLAN DESIGN NOTES  
ALL INSTALLED LUMINAIRES SHALL BE HIGH-EFFICACY IN ACCORDANCE WITH ES TABLE 150.4  
IN BATHROOMS, GARAGES, LAUNDRY ROOMS, AND UTILITY ROOMS AT LEAST ONE LUMINAIRE SHALL BE CONTROLLED BY A VACANCY SENSOR.  
DIMMERS OR VACANCY SENSORS SHALL CONTROL ALL LED STYLE LUMINAIRES. TWO EXCEPTIONS: FIXTURES INSTALLED IN HALLWAYS OR (CLOSETS UNDER 70 SQUARE FEET). RECESSED CAN LIGHT HIGH EFFICIENCY FIXTURES SHALL BE IC, LISTED, AIR-TIGHT LABELED, AND NOT BE EQUIPPED WITH A STANDARD MEDIUM BASE SCREW SHELL LAMP HOUSERS, ES 150.0(K)  
LIGHT SOURCES THAT ARE NOT MARKED "AS-2016-E" SHALL NOT BE INSTALLED IN ENCLOSED LUMINAIRES, ES 150.0(K)  
OUTDOOR LIGHTING FIXTURES THAT ARE ATTACHED TO A BUILDING ARE REQUIRED TO BE HIGH EFFICACY. BE MANUALLY ON/OFF SWITCH CONTROLLED AND HAVE BOTH MOTION SENSOR AND PHOTOCELL CONTROL. SEE ES 150.0(K) 3 FOR ADDITIONAL CONTROL OPTIONS.  
ELECTRIC VEHICLE CHARGING: NOTE ON THE PLANS THAT ELECTRICAL VEHICLE SUPPLY EQUIPMENT (EVE) ROUGH-IN ONLY IS REQUIRED IN ONE- AND TWO-FAMILY DWELLINGS AND TOWNHOMES WITH ATTACHED GARAGES. THE EVE ROUGH-IN CONSISTS OF A MINIMUM 1" CONDUIT EXTENDING FROM THE MAIN PANEL TO A JUNCTION BOX WHERE THE EVE RECEPTACLE BOX WILL BE PROVIDED. THE MAIN SERVICE PANEL MUST BE SIZED TO ACCOMMODATE A FUTURE 208/240 VOLT 40 AMPERE DEDICATED BRANCH CIRCUIT. CALIFORNIA GREEN CODE 4.106.4. CURRENTLY THERE IS NO PNL SCHEDULE AND/OR LOAD CALCULATION PROVIDED TO CONFIRM COMPLIANCE. MANDATORY (CES 150.0(K))  
- PROVIDE ON UTILITY PLANS A COMPLETE LIGHTING FIXTURE SCHEDULE.  
- ALL LUMINAIRES SHALL BE HIGH-EFFICACY IN ACCORDANCE WITH CES TABLE 150.0-A  
- ALL LED LUMINAIRES AND LAMPS SHALL BE MARKED "AS-2016" AND LISTED IN THE CALIFORNIA ENERGY COMMISSION DATABASE AT <https://aces.eaplan.com>  
- RECESSED DOWNLIGHT LUMINAIRES IN CEILING SHALL NOT BE SCREW-BASED.  
- BATHROOMS, GARAGES, LAUNDRY ROOMS, AND UTILITY ROOMS AT LEAST ONE LUMINAIRE IN EACH SPACE SHALL BE CONTROLLED BY A VACANCY SENSOR.  
- ALL LUMINAIRES REQUIRING "AS-2016" OR "AS-2016-E" MARKING SHALL BE CONTROLLED BY A DIMMER OR VACANCY SENSOR.  
EXCEPTION: CLOSETS LESS THAN 70 S.F.  
EXCEPTION: HALLWAYS  
- OUTDOOR LIGHTING PERMANENTLY MOUNTED TO BUILDING SHALL BE CONTROLLED BY ONE OF THE FOLLOWING:  
- PHOTOCONTROL AND MOTION SENSOR  
- PHOTOCONTROL AND AUTOMATIC TIME-SWITCH CONTROL  
- ASTRONOMICAL TIME CLOCK  
PROVIDE TAMPER RESISTANT RECEPTABLES FOR ALL LOCATIONS IN DWELLING AS DESCRIBED IN CEC 210.52

SPECIFIC PLAN NOTES

ARC-FAULT PROTECTION FOR ALL OUTLETS (NOT JUST RECEPTABLES) LOCATED IN ROOMS DESCRIBED IN NEC 210.12(A) (KITCHENS, LAUNDRY AREAS, FAMILY, LIVING, BEDROOMS, DINING, HALLS, ETC.)  
ALL INSTALLED LUMINAIRES SHALL BE HIGH-EFFICACY IN ACCORDANCE WITH ES TABLE 150.4  
IN BATHROOMS, GARAGES, LAUNDRY ROOMS, AND UTILITY ROOMS AT LEAST ONE LUMINAIRE SHALL BE CONTROLLED BY A VACANCY SENSOR.  
DIMMERS OR VACANCY SENSORS SHALL CONTROL ALL LED STYLE LUMINAIRES. TWO EXCEPTIONS: FIXTURES INSTALLED IN HALLWAYS OR (CLOSETS UNDER 70 SQUARE FEET). RECESSED CAN LIGHT HIGH EFFICIENCY FIXTURES SHALL BE IC, LISTED, AIR-TIGHT LABELED, AND NOT BE EQUIPPED WITH A STANDARD MEDIUM BASE SCREW SHELL LAMP HOUSERS, ES 150.0(K)  
LIGHT SOURCES THAT ARE NOT MARKED "AS-2016-E" SHALL NOT BE INSTALLED IN ENCLOSED LUMINAIRES, ES 150.0(K)  
OUTDOOR LIGHTING FIXTURES THAT ARE ATTACHED TO A BUILDING ARE REQUIRED TO BE HIGH EFFICACY. BE MANUALLY ON/OFF SWITCH CONTROLLED AND HAVE BOTH MOTION SENSOR AND PHOTOCELL CONTROL. SEE ES 150.0(K) 3 FOR ADDITIONAL CONTROL OPTIONS.  
ELECTRIC VEHICLE CHARGING: NOTE ON THE PLANS THAT ELECTRICAL VEHICLE SUPPLY EQUIPMENT (EVE) ROUGH-IN ONLY IS REQUIRED IN ONE- AND TWO-FAMILY DWELLINGS AND TOWNHOMES WITH ATTACHED GARAGES. THE EVE ROUGH-IN CONSISTS OF A MINIMUM 1" CONDUIT EXTENDING FROM THE MAIN PANEL TO A JUNCTION BOX WHERE THE EVE RECEPTACLE BOX WILL BE PROVIDED. THE MAIN SERVICE PANEL MUST BE SIZED TO ACCOMMODATE A FUTURE 208/240 VOLT 40 AMPERE DEDICATED BRANCH CIRCUIT. CALIFORNIA GREEN CODE 4.106.4. CURRENTLY THERE IS NO PNL SCHEDULE AND/OR LOAD CALCULATION PROVIDED TO CONFIRM COMPLIANCE. MANDATORY (CES 150.0(K))  
- PROVIDE ON UTILITY PLANS A COMPLETE LIGHTING FIXTURE SCHEDULE.  
- ALL LUMINAIRES SHALL BE HIGH-EFFICACY IN ACCORDANCE WITH CES TABLE 150.0-A  
- ALL LED LUMINAIRES AND LAMPS SHALL BE MARKED "AS-2016" AND LISTED IN THE CALIFORNIA ENERGY COMMISSION DATABASE AT <https://aces.eaplan.com>  
- RECESSED DOWNLIGHT LUMINAIRES IN CEILING SHALL NOT BE SCREW-BASED.  
- BATHROOMS, GARAGES, LAUNDRY ROOMS, AND UTILITY ROOMS AT LEAST ONE LUMINAIRE IN EACH SPACE SHALL BE CONTROLLED BY A VACANCY SENSOR.  
- ALL LUMINAIRES REQUIRING "AS-2016" OR "AS-2016-E" MARKING SHALL BE CONTROLLED



### THIRD LEVEL UNIT #306 - ELECTRICAL PLAN



### UTILITY PLAN NOTES

1. LOCAL EXHAUST FANS TO EXTERIOR TO PROVIDE MINIMUM 50 CFM INTERMITTENT OR 20 CFM CONTINUOUS VENTILATION.
2. SMOKE DETECTORS TO BE INTERCONNECTED PER CRC R314.4 AND HARD-WIRED WITH BATTERY BACK-UP PER CRC R314.6
3. CARBON MONOXIDE ALARMS TO BE INTERCONNECTED PER CRC R314.4 HARD-WIRED WITH BATTERY BACK-UP PER CRC R315.5
4. 4" Ø DRYER VENT WITH MAXIMUM 14 FOOT COMBINED HORIZONTAL AND VERTICAL LENGTH WITH TWO 90 DEGREE ELBOWS.
5. A MECHANICAL EXHAUST VENTILATION SYSTEM, SUPPLY VENTILATION SYSTEM, OR COMBINATION THEREOF SHALL BE INSTALLED FOR EACH DWELLING UNIT TO PROVIDE WHOLE-BUILDING VENTILATION WITH OUTDOOR AIR IN COMPLIANCE WITH ASHRAE STANDARD 62.2 AS ADOPTED BY THE CALIFORNIA ENERGY COMMISSION.
6. AN INTERMITTENTLY OR CONTINUOUSLY OPERATING LOCAL MECHANICAL EXHAUST VENTILATION SYSTEM SHALL BE INSTALLED IN EACH BATHROOM WITH A BATHTUB, SHOWER, OR SIMILAR MOISTURE SOURCE AND IN EACH KITCHEN IN COMPLIANCE WITH ASHRAE STANDARD 62.2 AS ADOPTED BY THE CALIFORNIA ENERGY COMMISSION. INTERMITTENT LOCAL EXHAUST VENTILATION AIRFLOW RATES SHALL BE 50 CFM IN BATHROOMS AND 100 CFM IN KITCHENS. CONTINUOUS LOCAL EXHAUST VENTILATION AIRFLOW RATES SHALL BE 20 CFM IN BATHROOMS AND 5 AIR CHANGES PER HOUR IN KITCHENS BASED ON KITCHEN VOLUME.
7. WATER HEATER OR FURNACE SHALL BE A DIRECT-VENT APPLIANCE LISTED AS GASKETED SELF CLOSING DOOR REQUIRED FOR GAS FAULT DETECTION. GE PROFILE™ 4.8 CU. FT. CAPACITY ULTRAFAST COMBO WITH VENTLESS HEAT PUMP TECHNOLOGY WASHER/DRYER.
8. DRYER VENTS SHALL BE EQUIPPED WITH BACK-DRAFT DAMPERS PER SECTION 504.1.1 CMC.
9. 1/4" PER FOOT SLOPE FOR WASTE PIPE PER SECTION 708 CPC.
10. "BUILDING DRAIN AND VENT PIPING MATERIALS SHALL COMPLY WITH SECTIONS 701.0 AND 903.0 OF THE CALIFORNIA PLUMBING CODE."
11. ALL SANITARY SYSTEM MATERIALS SHALL BE LISTED BY AN APPROVED LISTING AGENCY."
12. DOMESTIC HOT WATER PIPING SHALL BE INSULATED PER SECTION 602.0 CPC.
13. ELECTRIC HIGH EFFICIENT CLOTHES DRYER.

### LIGHTING PLAN NOTES

1. ALL LUMINAIRES SHALL BE HIGH-EFFICACY IN ACCORDANCE WITH CBEES TABLE 150.0-A
2. ALL LED LUMINAIRES AND LAMPS SHALL BE MARKED "JA8-2016" AND LISTED IN THE CALIFORNIA ENERGY COMMISSION DATABASE AT [HTTPS://CACERT.APPLIANCES.ENERGY.CA.GOV/PAGES/APPLIANCESEARCH.ASPX](https://cacert.appliances.energy.ca.gov/pages/appliancesearch.aspx)
3. ALL RECESSED DOWNLIGHT AND ENCLOSED LUMINAIRES SHALL BE MARKED "JA8-2016-E" AND LISTED IN THE CALIFORNIA ENERGY COMMISSION DATABASE AT [HTTPS://CACERT.APPLIANCES.ENERGY.CA.GOV/PAGES/APPLIANCESEARCH.ASPX](https://cacert.appliances.energy.ca.gov/pages/appliancesearch.aspx)
4. RECESSED DOWNLIGHT LUMINAIRES IN CEILINGS SHALL NOT BE SCREW-BASED
5. BATHROOMS, GARAGES, LAUNDRY ROOMS, AND UTILITY ROOMS: AT LEAST ONE LUMINAIRE IN EACH SPACE SHALL BE CONTROLLED BY A VACANCY SENSOR
6. ALL LUMINAIRES REQUIRING "JA8-2016" OR "JA8-2016-E" MARKING SHALL BE CONTROLLED BY A DIMMER OR VACANCY SENSOR EXCEPT - CLOSETS LESS THAN 70 S.F. & HALLWAYS
7. OUTDOOR LIGHTING PERMANENTLY MOUNTED TO BUILDINGS SHALL BE CONTROLLED BY ONE OF THE FOLLOWING: - PHOTOCONTROL AND MOTION SENSOR - PHOTOCONTROL AND AUTOMATIC TIME-SWITCH CONTROL - ASTRONOMICAL TIME CLOCK - ENERGY MANAGEMENT CONTROL SYSTEM PER CBEES 150.0(K)3A11IC
8. ALL SHOWN RECEPTACLES TO BE NEW.
9. LIGHTING IN HABITABLE SPACES, INCLUDING BUT NOT LIMITED TO LIVING ROOMS, DINING ROOMS, KITCHENS AND BEDROOMS, SHALL HAVE READILY ACCESSIBLE WALL-MOUNTED DIMMING CONTROLS THAT ALLOW THE LIGHTING TO BE MANUALLY ADJUSTED UP AND DOWN. (2022 CENC 160.5(A)2.F.)
10. IN BATHROOMS, GARAGES, LAUNDRY ROOMS, UTILITY ROOMS AND WALK-IN CLOSETS, AT LEAST ONE INSTALLED LUMINAIRE SHALL BE CONTROLLED BY AN OCCUPANCY OR VACANCY SENSOR PROVIDING AUTOMATIC-OFF FUNCTIONALITY. (2022 CENC 160.5(A)2.E.1.)
11. ALL LUMINAIRES INSTALLED IN RESIDENTIAL KITCHENS, BATHROOMS, GARAGES, LAUNDRY AND UTILITY ROOMS SHALL BE HIGH EFFICACY TYPE.

### SOLAR READY KEY NOTES

**PROPOSED REMODEL FOR  
CHESTER HOWE  
5605 FRIARS RD # 306,  
SAN DIEGO, CA 92110**

### ELECTRICAL PLAN

No.	Revision/Issue	Date
1	CLIENT REVIEW	6/21/2023
2	A.R.R.	
3	PLAN CHECK	
4	CORRECTIONS	
5	PERMIT	
6		
7		

**ADVANCED DEVELOPMENT**  
 RESIDENTIAL COMMERCIAL INDUSTRIAL

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License# 906815

Project	436611538	Sheet	A2.1
Date	06/2023		
Scale			

### ELECTRICAL LEGEND

LED WALL FIXTURE (7W MAX RULB)	LED EXTERIOR WALL FIXTURE WITH MANUAL ON - AUTO OFF/MOTION DETECTOR & PHOTOCELL CONTROLS	120 VOLT CEILING OUTLET	PUSH BUTTON	SURFACE LIGHTING OUTLET (CEILING)	THERMOSTAT CONTROL
DECORATIVE SURFACE CEILING FIXTURE	HARDWIRED SMOKE / CO DETECTOR INTERCONNECTED TO ALL DETECTORS INTERCONNECTED TO AN ALARM AT ONE IS AUDIBLE AT ALL	120 VOLT DUPLEX GROUND FAULT CIRCUIT INTERRUPT OUTLET	AUTO-OFF MOTION SENSOR SWITCH (SEE NOTES BELOW)	SURFACE LIGHTING OUTLET (WALL)	DUPLEX OUTLET RECESSED INTO WALL
RECESSED LED CEILING FIXTURE (7W MAX RULB)	UNDERCOUNTER OR SHELF 120 VOLT GROUND FAULT CIRCUIT INTERRUPT DUPLEX OUTLET	240 VOLT OUTLET	SINGLE POLE SWITCH	DOWN LIGHTING FIXTURE	FLOOR MOUNTED OUTLET
CEILING MOUNTED JUNCTION BOX	120 VOLT DUPLEX GROUND FAULT CIRCUIT INTERRUPT OUTLET WEATHERPROOF TYPE	UNDERCOUNTER OR SHELF 120 VOLT GROUND FAULT CIRCUIT INTERRUPT DUPLEX OUTLET	DIMMER SWITCH	POWER TRACK AND HEADS	FLOOR MOUNTED OUTLET
LED LIGHT/FAN COMBO. (SEE NOTES AT EXHAUST FAN SYMBOL BELOW)	200 AMP ELEC. METER AND SERVO PANEL, PROVIDE LIFE-GROUND ROD, MAIN ELECTRIC SERVICE SHALL BE UNDERGROUND.	120 VOLT DUPLEX OUTLET (ARC FAULT INTERRUPT)	SINGLE POLE 3-WAY SWITCH	DOOR CHIME	DOORBELL
THERMOSTAT	120 VOLT DUPLEX OUTLET (ARC FAULT INTERRUPT)	1/2 HOT 120 VOLT DUPLEX OUTLET (ARC FAULT INTERRUPT)	SINGLE POLE 4-WAY SWITCH	EXHAUST FAN	WATERPROOF OUTLET(EXTERIOR)
PHONE JACK	1/2 HOT 120V CONVENIENCE OUTLET	3 - WAY DIMMER SWITCH	3-WAY DIMMER SWITCH	DOORBELL CHIMES	2" TWO LAMP (F40) DECORATIVE FLUORESCENT
TELEVISION CABLE OUTLET	CEILING MOUNTED LIGHT/FAN WIRE SWITCH/OUTLET	3 - WAY DIMMER SWITCH	4-WAY DIMMER SWITCH	FAN/LIGHT COMBINATION	4" TWO LAMP (F40) FLUORESCENT FIXTURE
120 VOLT DUPLEX OUTLET	DEDICATED CIRCUIT (20 AMPS)	SWITCHABLE RECEPTACLE	DIMMER SWITCH	HEAT LAMP	6" TANDEM (2 EA. F40 4" LAMPS END TO END)
UNDERCOUNTER/UNDER-SHELF 120 VOLT DUPLEX OUTLET				SMOKE DETECTOR/CARBON MONOXIDE DETECTOR	8" TANDEM (2 EA. F40 4" LAMPS END TO END)
120 VOLT SINGLE FLOOR OUTLET				TV OUTLET	LOW PROFILE UNDERCABINET FLUORESCENT FIXTURE
				PHONE OUTLET	

**PFQ97HSPVDS**  
GE Profile™ 4.8 cu. ft. Capacity UltraFast Combo  
with Ventless Heat Pump Technology Washer/Dryer

**DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)**

<b>ELECTRIC RATING</b>
120V   11.0A, 60Hz

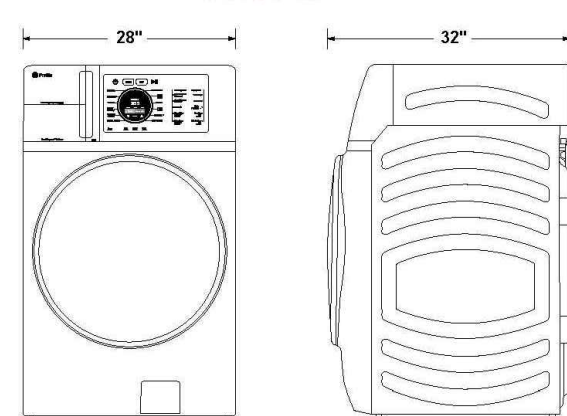
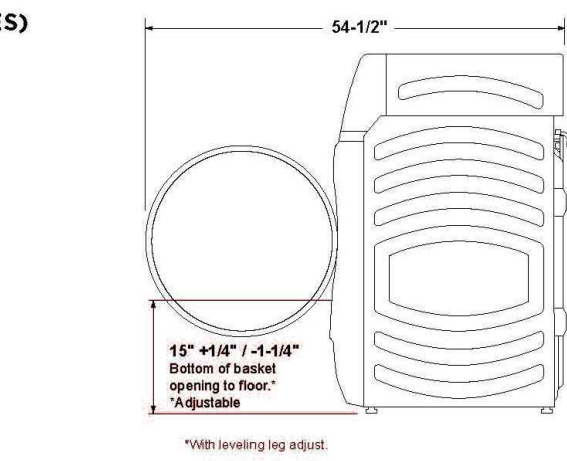
**INSTALLATION INFORMATION:** For complete information, see installation instructions packed with your Combo.

**CIRCUIT REQUIREMENTS:** An individual, properly grounded branch circuit, protected by a 15-amp circuit breaker or a time-delay fuse, is required.

**NOTE:** Combo wall outlet must be located within 36" of service cord entry and accessible when combo is mounted in position.

**INCLUDED POWER CORD LENGTH -** Up to 66"

**INCLUDED DRAIN HOSE LENGTH -** Up to 60"



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with Ventless Heat Pump Technology Washer/Dryer

**ALCOVE OR CLOSET INSTALLATION:**

-Approved for closet installation. Closet doors must be louvered or otherwise ventilated and have at least 60 square inches (3871 cm<sup>2</sup>) of open area.

**-No Venting Required.**

-Minimum clearances between Combo cabinet and adjacent walls or other surfaces are: 0" all sides and top.\*

**MINIMUM CLEARANCE OTHER THAN ALCOVE OR CLOSET INSTALLATIONS:**

-Minimum clearances to combustible surfaces 0" all sides and top.\*

**WEIGHT**

-Carbon Weight: 323 lbs  
-Product weight: 302 lbs

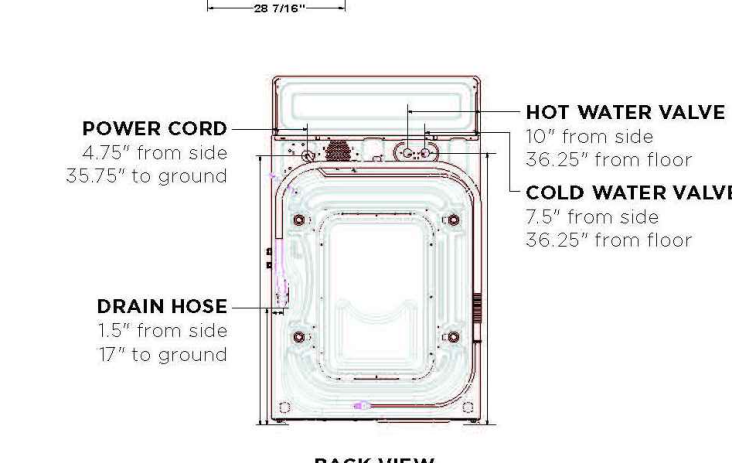
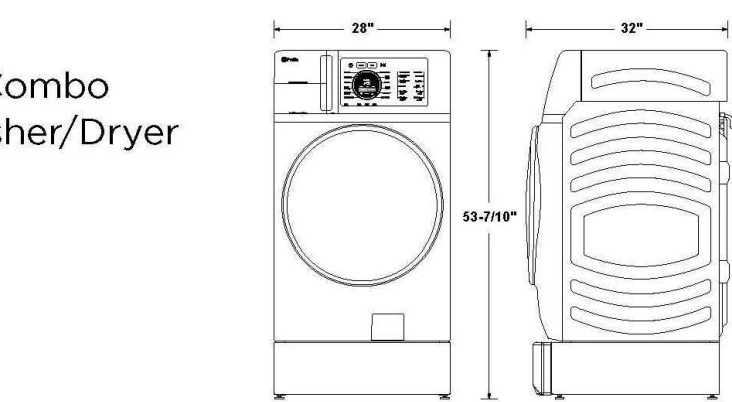
\*For improved performance, a 1/2" clearance is suggested on each side.

**ACCESSORIES**

Fill Hoses	WH41X10207 (sold separately)
Optional Riser	GF80729PTDS (sold separately)
Sink Latchcup Hook-Up	WH41X27468 (sold separately)
Drain Hose Extension Kit - Approx. 44"	WH49X2316 (sold separately)
Universal low profile washer floor tray	PM7X2 (sold separately)
Touch-Up Paint - 0.6 OZ.	WR97X27706 (sold separately)

**WARRANTY**

Labor Warranty	Limited 1-year entire appliance
Parts Warranty	Limited 1-year entire appliance Limited 5-year sealed system Limited 10-year motor



**PFQ97HSPVDS**  
GE Profile™ 4.8 cu. ft. Capacity UltraFast Combo  
with Ventless Heat Pump Technology Washer/Dryer

**FEATURES AND BENEFITS**

**2-in-1 Washer/Dryer** - Wash & Dry a large load of laundry in about 2 hours without the hassle of transferring clothes from the washer to the dryer.\*

**High-Airflow Ventless Drying System** - Recirculated high-speed filtered airflow lets you gently dry activewear, denim and other delicate items so you don't have to hang dry.

**Easy Installation & Space-Saving Solutions** - Rethink your laundry space and location with a 120V, all-in-one Ventless Combo design that takes up half the space of two separate units.

**Greater Energy Savings\*\*** - 50% more energy efficient drying\*\* with Ventless Heat Pump.

**Adaptive SmartDispense™ Technology** - Save time and effort with an intelligent dispenser that holds enough detergent and softener for up to 32 loads. Plus, scan the barcode on the detergent or softener bottle with the SmartHQ™ app and the washer will dispense the right amount based on the type of product used.

**Microban® Antimicrobial Technology** - Provides antimicrobial protection on the gasket, dispenser, and draining system, to help prevent odors and ensuring your Combo stays fresh and clean load after load.

**Smart Features Powered by SmartHQ™** - When connected to the SmartHQ™ app, the Combo allows you to select detergents, download specialty cycles, receive cycle status notifications, and initiate updates.

**Large Wash Capacity** - Large, 4.8-cu.-ft. capacity lets you clean large sized loads, even clean a king-size comforter.

**Limited Warranty** - Rest assured knowing your unit is backed by a 10-year limited warranty on the motor and a 5-year limited warranty on the sealed drying system.

**EZ Access Lint Filter System** - An exclusive, easy-to-reach lint filter system allows you to remove lint and micro particles, ensuring your Combo operates at the highest levels of efficiency.

**Sanitize with Oxi** - Remove 99% of bacteria with a dedicated cycle that uses an Oxi additive to boost your detergent's cleaning power, while keeping fabrics looking and feeling their best.

**Eco Cool™ Cycle** - Save energy with a specially designed cold-water wash and efficient Dry cycle that delivers comparable cleaning performance to the normal warm water wash cycle.



\*Based on completing the Normal Wash + Dry cycle with Eco Dry on using a 10-lb. DOE or Mixed Load in about 2 hours. See Use & Care Manual for details.

\*\*Efficiency rating as compared to the requirements for ENERGY STAR qualification for standard electric dryers.

**UTILITY PLAN NOTES**

- LOCAL EXHAUST FANS TO EXTERIOR TO PROVIDE MINIMUM 50 CFM INTERMITTENT OR 20 CFM CONTINUOUS VENTILATION.
- SMOKE DETECTORS TO BE INTERCONNECTED PER CRC R314.4 AND HARD-WIRED WITH BATTERY BACK-UP PER CRC R314.6
- CARBON MONOXIDE ALARMS TO BE INTERCONNECTED PER CRC R315.7 AND HARD-WIRED WITH BATTERY BACK-UP PER CRC R315.5
- 4" Ø DRYER VENT WITH MAXIMUM 14 FOOT COMBINED HORIZONTAL AND VERTICAL LENGTH WITH TWO 90 DEGREE ELBOWS.
- A MECHANICAL EXHAUST VENTILATION SYSTEM, SUPPLY VENTILATION SYSTEM, OR COMBINATION THEREOF SHALL BE INSTALLED FOR EACH DWELLING UNIT TO PROVIDE WHOLE-BUILDING VENTILATION WITH OUTDOOR AIR IN COMPLIANCE WITH ASHRAE STANDARD 62.2 AS ADOPTED BY THE CALIFORNIA ENERGY COMMISSION.
- AN INTERMITTENTLY OR CONTINUOUSLY OPERATING LOCAL MECHANICAL EXHAUST VENTILATION SYSTEM SHALL BE INSTALLED IN EACH BATHROOM WITH A BATHTUB, SHOWER, OR SIMILAR MOISTURE SOURCE AND IN EACH KITCHEN IN COMPLIANCE WITH ASHRAE STANDARD 62.2 AS ADOPTED BY THE CALIFORNIA ENERGY COMMISSION. INTERMITTENT LOCAL EXHAUST VENTILATION AIRFLOW RATES SHALL BE 50 CFM IN BATHROOMS AND 100 CFM IN KITCHENS. CONTINUOUS LOCAL EXHAUST VENTILATION AIRFLOW RATES SHALL BE 20 CFM IN BATHROOMS AND 5 AIR CHANGES PER HOUR IN KITCHENS BASED ON KITCHEN VOLUME.
- WATER HEATER OR FURNACE SHALL BE A DIRECT-VENT APPLIANCE LISTED GASKETED SELF CLOSING DOOR REQUIRED FOR GAS FAU.
- GE PROFILE™ 4.8 CU. FT. CAPACITY ULTRAFAST COMBO WITH VENTLESS HEAT PUMP TECHNOLOGY WASHER/DRYER
- DRYER VENTS SHALL BE EQUIPPED WITH BACK-DRAFT DAMPERS PER SECTION 504.11.01C.
- 1/4" PER FOOT SLOPE FOR WASTE PIPE PER SECTION 708 CPC.
- \*BUILDING DRAIN AND VENT PIPING MATERIALS SHALL COMPLY WITH SECTIONS 701.0 AND 903.0 OF THE CALIFORNIA PLUMBING CODE.
- ALL SANITARY SYSTEM MATERIALS SHALL BE LISTED BY AN APPROVED LISTING AGENCY.\*
- DOMESTIC HOT WATER PIPING SHALL BE INSULATED PER SECTION 609.12.2 CPC.
- ELECTRIC HIGH EFFICIENT CLOTHES DRYER.

Project Name and Address  
**PROPOSED REMODEL FOR  
 CHESTER HOWE  
 5606 FRIARS RD # 306,  
 SAN DIEGO, CA 92110**

**SHEET TITLE**  
**MECHANICAL**

	CLIENT REVIEW	6/21/2023
	APR	
	PLAN CHECK	
	CORRECTIONS	
	PERMIT	
No.	Revision/Issue	Date

**ADVANCED DEVELOPMENT**  
RESIDENTIAL COMMERCIAL INDUSTRIAL

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License# 905815  
@ 2023 ADV

Project: 436611538  
Date: 06/2023  
Scale: **M1.0**

**PROPOSED THIRD LEVEL UNIT #306-MECHANICAL PLAN**



A. General

Applicable codes. All projects shall comply with the 2019 California Building Code (CBC) and/or California Residential Code (CRC), 2019 California Green Building Standards Code (CALGreen), 2019 California Electrical Code (CEC), 2019 California Mechanical Code (CMC), 2019 California Plumbing Code (CPC), 2019 California Fire Code (CFC), 2019 California Building Energy Efficiency Standards (CBEEBS), and all County of San Diego amendments.

A. Electrical, Plumbing, and Mechanical

- 1. Exterior lighting. All projects shall comply with the County of San Diego lighting ordinance.
2. GFCI outlets. Ground Fault Circuit Interrupter (GFCI) outlets are required in bathrooms, all kitchen countertops, at laundry and wet bar sinks, in garages, in crawlspaces, in unfinished basements, and outdoors. (CEC 210.8).
3. AFCI outlets. Electrical circuits in bedrooms, living rooms, dining rooms, dens, closets, hallways, or similar rooms must be protected by Arc Fault Circuit Interrupters (AFCI). (CEC 210.12)
4. Luminaire requirements. Installed luminaires shall meet the efficacy and fixture requirements of CBEEBS 150.0(k).
5. Smoke detectors in building remodels. Smoke detectors are required in each existing sleeping room, outside each separate sleeping area in the immediate vicinity of sleeping rooms, and on each story of a dwelling including basements. Battery-operated detectors are acceptable in existing areas with no construction taking place and in alterations not resulting in removal of interior wall or ceiling finishes and without access via an attic, crawl space, or basement. (CRC R313.4)
6. Carbon monoxide detectors in building remodels. Carbon monoxide detectors are required outside each separate sleeping area in the immediate vicinity of sleeping rooms and on each story of a dwelling including basements. Battery-operated detectors are acceptable in existing areas with no construction taking place and in alterations not resulting in removal of interior wall or ceiling finishes and without access via an attic, crawl space, or basement. (CRC R313.5)
7. Water heater seismic strapping. Minimum two 3/4-inch-by-24-gauge straps required around water heaters, with 1/4-inch-by-3-inch lag bolts attached directly to framing. Straps shall be at points within upper third and lower third of water heater vertical dimension. Lower connection shall occur minimum 4 inches above controls. (CPC 507.2)
8. Gas appliances in garages. Water heaters and heating/cooling equipment capable of igniting flammable vapor shall be placed on minimum 18-inch-high platform unless listing report number provided showing ignition-resistant appliance. (CPC 507.13 and CMC 305.1)
9. Water closet clearance. Minimum 30-inch-wide by 24-inch-deep clearance required at front of water closets. (CPC 402.5)
10. Shower size. Shower compartments shall have minimum area of 1024 square inches and be able to encompass a 30-inch-diameter circle. Shower doors shall have a minimum 22-inch unobstructed width. (CPC 408.5 and CPC 408.6)
11. Fireplace appliances. Fireplaces with gas appliances are required to have the flue damper permanently fixed in the open position and fireplaces with LPG appliances are to have no 'pif' or 'sump' configurations. (CMC 303.7.1)
12. Chimney clearance. Minimum 2-foot chimney clearance required above building within 10-foot horizontally of chimney. The chimney shall extend minimum 3 feet above highest point where chimney passes through roof. (CRC R103.9)

C. Mechanical Ventilation and Indoor Air Quality (ASHRAE 62.2-2010)

- 1. Transfer air. Ventilation air shall be provided directly from the outdoors and not as transfer air from adjacent dwelling units or other spaces, such as garages, unconditioned crawlspaces, or unconditioned attics. (CBEEBS 150.0(i))
2. Instructions and labeling. Ventilation system controls shall be labeled and the home owner shall be provided with instructions on how to operate the system. (CBEEBS 150.0(o))
3. Combustion and solid-fuel burning appliances. Combustion appliances shall be properly vented and air systems shall be designed to prevent back drafting. (CBEEBS 150.0(o))
4. Garages. The wall and openings between occupiable spaces and the garage shall be sealed. HVAC systems that include air handlers or return ducts located in garages shall have total air leakage of no more than 6% of total fan flow when measured at 0.1 in. w.c. using California Title 24 or equivalents. (CBEEBS 150.0(i))
5. Minimum filtration. Mechanical systems supplying air to occupiable space through ductwork shall be provided with a filter having a minimum efficiency of MERV 6 or better. (CBEEBS 150.0(i))
6. Air inlets. Air inlets (not exhaust) shall be located away from known contaminants. (CBEEBS 150.0(i))
7. Air moving equipment. Air moving equipment used to meet either the whole-building ventilation requirement or the local ventilation exhaust requirement shall be rated in terms of airflow and sound. (CBEEBS 150.0(i))
8. Intermittently operated local exhaust fans shall be rated at maximum of 1.0 sone.
9. Intermittently operated local exhaust fans shall be rated at maximum of 3.0 sone.
10. Remotely located air-moving equipment (mounted outside of habitable spaces) need not meet sound requirements if at least 4 feet of ductwork between fan and intake grid.

D. Foundation and Underfloor

- 1. Foundation reinforcement. Continuous footings and stem walls shall be provided with a minimum two longitudinal No. 4 bars, one at the top and one at the bottom of the footing. (CRC R403.1.3.3)
2. Shear wall foundation support. Shear walls shall be supported by continuous foundations. (CRC 403.1.2)
3. Concrete slabs-on-grade. Slabs-on-grade shall be minimum 3-1/2-inches thick. (CRC R506.1)
4. Vapor retarder. A 6-mil polyethylene or approved vapor retarder with joints lapped minimum 6 inches shall be placed between a concrete slab-on-grade and the base course or subgrade. (CRC 506.2.3)
5. Anchor bolts and sills. Foundation plates or sills shall be bolted or anchored to the foundation or foundation wall per the following (CRC R403.1.6 and CRC R602.11.1):
a. Minimum 1/2-inch-diameter steel bolts
b. Bolts embedded at least 7 inches into concrete or masonry
c. Bolts spaced maximum 6 feet on center
d. Minimum two bolts per plate/sill with one both lotted maximum 12 inches and minimum 7-bolt diameters from each end of each sill plate/plate
e. Minimum 3-inch by 3-inch by 0.299-inch steel plate washer between sill and nut on each bolt
6. Hold-downs. All hold-downs must be tied in place prior to foundation inspection.
7. Protection of wood against decay. Naturally durable or preservative-treated wood shall be provided in the following locations (CRC R313.1):
a. All wood in contact with ground, embedded in concrete in direct contact with ground, or embedded in concrete exposed to weather
b. Wood joints within 18 inches and wood girders within 12 inches of the exposed ground in crawl spaces shall be of naturally durable or preservative-treated wood
c. Wood framing members that rest on concrete or masonry exterior foundation walls and are less than 8 inches from exposed earth shall be of naturally durable or preservative-treated wood
d. Wood framing, sheathing, and siding on the exterior of the building and having clearance less than 6 inches from the exposed ground or less than 2 inches vertically between concrete steps, porch slabs, patio slabs, and similar horizontal surface exposed to weather
e. Sills and sleepers on concrete or masonry slab in direct contact with ground unless separated from such slab by impervious moisture barrier

D. Foundation and Underfloor (Continued)

- f. Ends of wood girders extending masonry or concrete walls with clearances less than 1/2 inch on top, sides, and ends
g. Wood structural members supporting moisture-permeable floors or roofs exposed to weather, such as concrete or masonry slabs, unless separated from such floors or roofs by an impervious moisture barrier
h. Wood framing strips or other wood framing members attached directly to interior of exterior concrete or masonry walls below grade except where vapor retarder applied between wall and framing strips or framing members
8. Underfloor ventilation. Underfloor areas shall have ventilation openings through foundation walls or exterior walls, with minimum net area of ventilation openings of 1 square foot for each 150 square feet of underfloor area. On such ventilation opening shall be within 3 feet of each corner of the building. (CRC R408.1)
9. Underfloor access. Underfloor areas shall be provided with a minimum 18-inch by 24-inch access opening. (CRC R408.4)

E. Wood Framing

- 1. Fastener requirements. The number, size, and spacing of fasteners connecting wood members/elements shall not be less than that set forth in CRC Table R602.3(1). (CRC R502.9, CRC R602.3, and CRC R802.2)
2. Stud size, height, and spacing. The size, height, and spacing of studs shall be in accordance with CRC Table R602.3(1). (CRC R602.3.1)
3. Sill plate. Studs shall have full bearing on nominal 2-inch thick or larger sill plate with width at least equal to stud width. (CRC R602.3.4)
4. Bearing studs. Where joists, trusses, or rafters are spaced more than 16 inches on center and the bearing studs below are spaced 24 inches on center, such members shall bear within 5 inches of the studs beneath. (CRC R602.3.3)
5. Drilling and notching of studs. Any stud in an exterior wall or bearing partition may be cut or notched to a depth not exceeding 25% of its width. Studs in nonbearing partitions may be notched to a depth not to exceed 40% of a single stud width. Any stud may be bored or drilled, provided the diameter of the resulting hole is no more than 60% of the stud width, the edge of the hole is no more than 5/8 inch to the edge of the stud, and the hole is not located in the same section as a cut or notch. Studs located in exterior wall or bearing partitions drilled over 40% and up to 60% shall also be doubled with no more than two successive studs bored. (CRC R602.6)
6. Top plate. Wood stud walls shall be capped with a double top plate installed to provide overlying partitions and intersections with other partitions. End joints in double top plates shall be offset at least 24 inches. Joints in plates need not occur over studs. Plates shall be minimum nominal 2 inches thick and have width at least equal to width of studs. (CRC R602.3.2)
7. Top plate splices. Top plate lap splices shall be face-nailed with minimum 8 16d nails on each side of splice. (CRC R602.10.8.1)
8. Drilling and notching of top plate. 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% of its width, a galvanized metal tie not less than 0.054-inch thick and 1-1/2 inches wide shall be fastened across and to the plate at each side of the opening with not less than 8 10d nails having a minimum length of 1-1/2 inches at each side or equivalent. The tie metal tie must extend minimum 6 inches past the opening. (CRC R602.6.1)
9. Cripple walls. Foundation cripple walls shall be framed of studs not less in size than the standing above. Cripple walls more than 4 feet in height shall have studs sized as required for an additional story. Cripple walls with stud height less than 14 inches shall be sheathed on at least one side with a wood structural panel fastened to both the top and bottom plates in accordance with Table R602.3(1), or the cripple walls shall be constructed of solid blocking. Cripple walls shall be supported on continuous foundations. (CRC R602.9)
10. Wall bracing. Buildings shall be braced in accordance with the methods allowed per CRC R602.10.2, CRC R602.10.4, and/or CRC R602.10.5.
11. Braced wall line spacing. Spacing between braced wall lines shall not exceed 20 feet or alternate provisions of CRC R602.10.1.3.
12. Shear wall cumulative length. The cumulative length of shear walls within each braced wall line shall meet the provisions of CRC Table R602.10.3(1) for wind loads and CRC Table R602.10.3(2) for seismic loads. (CRC R602.10.1.1)
13. Shear wall spacing. Shear walls shall be located not more than 25 feet on center. (CRC R602.10.2.2)
14. Shear wall offset. Shear walls may be offset out-of-plane not more than 4 feet from the designated braced wall line and not more than 8 feet from any other offset wall considered part of the same braced wall line. (CRC R602.10.1.2)
15. Shear wall location. Shear walls shall be located at the ends of each braced wall line or meet the alternate provisions of CRC R602.10.2.2.
16. Individual shear wall length. Shear walls shall meet minimum length requirements of CRC R602.10.6.5.1.
17. Cripple wall bracing. Cripple walls shall be braced per CRC R602.10.11.
18. Shear wall and diaphragm nailing. All shear walls, roof diaphragms, and floor diaphragms shall be nailed to supporting construction per CRC Table R602.3(1). (CRC R604.3)
19. Shear wall joints. All vertical joints in shear wall sheathing shall occur over, and be fastened to, common studs. Horizontal joints in shear walls shall occur over, and be fastened to, minimum 1-1/2-inch-thick blocking. (CRC R602.10.10)
20. Framing over openings. Headers, double joists, or trusses of adequate size to transfer loads to floor members shall be provided over window and door openings in load-bearing walls and partitions. (CRC 2304.3.2)
21. Joists under bearing partitions. Joists under parallel bearing partitions shall be of adequate size to support the load. Double joists, sized to adequately support the load, that are separated to permit the installation of piping or vents shall be full-depth solid-blocking with minimum 2-inch nominal lumber spaced at maximum 4 feet on center. Bearing partitions perpendicular to joists shall not be offset from supporting girders, walls, or partitions more than the joist depth unless such joists are of sufficient size to carry the additional load. (CRC R502.4)
22. Joists above or below shear walls. Where joists are perpendicular to a shear wall above or below, a rim joist, band joist, or blocking shall be provided along the entire length of the shear wall. Where joists are parallel to a shear wall above or below, a rim joist, end joist, or other parallel framing shall be provided directly above and/or below the shear wall. Where a parallel framing member cannot be located directly above and/or below the shear wall, full-depth blocking at 16-inch spacing shall be provided between the parallel framing members to each side of the shear wall. (CRC R602.10.8)
23. Floor member bearing. The ends of each floor joist, beam, or girder shall have minimum 1-1/2 inches of bearing on wood or metal and minimum 3 inches of bearing on masonry or concrete except where supported on a 1-inch-by-4-inch ribbon strip and nailed to the adjoining stud or by the use of approved joist hangers. (CRC R502.6)
24. Floor joist lap. Floor joists framing opposite sides over a bearing support shall lap minimum 3 inches and shall be nailed together within minimum 3 10d face nails. A wood or metal splice with strength equal to or greater than that provided by the lap is permitted. (CRC R502.6.1)
25. Floor joist-to-girder support. Floor joists framing into the side of a wood girder shall be supported by approved framing anchors or on ledger strips minimum nominal 2 inches by 2 inches. (CRC R502.8.2)
26. Floor joist lateral restraint. Floor joists shall be supported laterally at ends and each intermediate support by minimum 2-inch full-depth blocking, by attachment to full-depth header, band joist, or rim joist, to an adjoining stud, or shall be otherwise provided with lateral support to prevent rotation. (CRC R502.7)
27. Floor joist bridging. Floor joists exceeding nominal 2 inches by 12 inches shall be supported laterally by solid blocking, diagonal bridging (wood or metal), or a continuous 1/4-inch-by-3-inch wood strip nailed across the rafters or ceiling joists at maximum 8-foot intervals. (CRC R502.7.1)
28. Framing of floor openings. Openings in floor framing shall be framed with a header and trimmer joists. When the header joist span does not exceed 4 feet, the header joist may be a single member the same size as the floor joist. Single trimmer joists may be used to carry a single header joist located within 3 feet of the trimmer joist bearing. When the header joist span exceeds 4 feet, the trimmer joists and header joist shall be doubled and of sufficient cross section to support the floor joists framing into the header. Approved hangers shall be used for the header-joist-to-trimmer-joist connections when the header joist span exceeds 6 feet. Tail joists over 12 feet long shall be supported at the header by framing anchors or on ledger strips minimum 2 inches by 2 inches. (CRC R502.10)

E. Wood Framing (Continued)

- 29. Girders. Girders for single-story construction or girders supporting loads from a single floor shall not be less than 4 inches by 6 inches for spans 6 feet or less, provided that girders are spaced not more than 8 feet on center. Other girders shall be designed to support the loads specified in the CBC. Girder end joints shall occur over supports. Where a girder is spliced over a support, an adequate tie shall be provided. The ends of beams or girders supported on masonry or concrete shall not have less than 3 inches of bearing. (CRC 2308.7)
30. Ridges, hips, and valleys. Rafters shall be framed to a ridge board or to each other with a gusset plate as a tie. Ridge boards shall be minimum 1-inch nominal thickness and not less in depth than the cut end of the rafter. At all valley and hips, there shall be a valley or hip rafter not less than 2-inch nominal thickness and not less in depth than the cut end of the rafter. Hip and valley rafters shall be supported at the ridge by a brace to a bearing partition or be designed to carry and distribute the specific load at that point. Where the roof pitch is less than 3:12 slope (25% gradient), structural members that support rafters and ceilings joists, such as ridges, hips, and valleys, shall be designed as beams. (CRC R602.3)
31. Ceiling joist and rafter connections. Ceiling joists and rafters shall be nailed to each other per CRC Table R602.5.1(9), and the rafter shall be nailed to the wall top plate per CRC Table R602.3(1). Ceiling joists shall be continuous or securely joined per CRC Table R602.5.1(9) where they meet over interior partitions and are nailed to adjacent rafters to provide a continuous tie across the building when such joists are parallel to rafters. Where ceiling joists are not connected to the rafters at the wall top plate, joists connected higher than the attic shall be installed as rafter ties, or rafter ties shall be installed to provide a continuous tie. Where ceiling joists are not parallel to rafters, rafter ties shall be installed. Rafter ties shall be minimum 2 inches by 4 inches nominal, installed per CRC Table R602.5.1(9), or connections of equivalent capacities shall be provided. Where ceiling joists or rafter ties are not provided, the ridge formed by these rafters shall be supported by a wall or engineer-designed girder. (CRC R602.3.1)
32. Ceiling joists lapped. Ends of ceiling joists shall be lapped minimum 3 inches or butted over bearing partitions or beams and toenailed to the bearing element. Where ceiling joists provide resistance to rafter thrust, lapped joists shall be nailed together per CRC Table R602.3(1) and butted joists shall be tied together in a manner to resist such thrust. (CRC R602.3.2)
33. Collar ties. Collar ties or ridge straps to resist wind uplift shall be connected in the upper third of the attic space. Collar ties shall be a minimum 1 inch by 4 inches nominal and spaced at maximum 4 feet on center. (CRC R402.3.1)
34. Purins. Purins installed to reduce the span of rafters shall be sized not less than the required size of the rafters they support. Purins shall be continuous and shall be supported by 2-inch-by-4-inch nominal braces installed to bearing walls at a minimum 45-degree slope from horizontal. The braces shall be spaced maximum 4 feet on center with a maximum 8-foot unbraced length. (CRC R602.5.1)
35. Roofing member bearing. The ends of each rafter or ceiling joist shall have not less than 1-1/2 inches of bearing on wood or metal and not less than 3 inches of bearing on masonry or concrete. (CRC R602.6)
36. Roofing member lateral support. Roof framing members and ceiling joists with a nominal depth-to-thickness ratio exceeding 5:1 shall be provided with lateral support at points of bearing to prevent rotation. (CRC R602.8)
37. Roofing bridging. Rafters and ceiling joists with a nominal depth-to-thickness ratio exceeding 5:1 shall be supported laterally by solid blocking, diagonal bridging (wood or metal), or a continuous 1/4-inch-by-3-inch wood strip nailed across the rafters or ceiling joists at maximum 8-foot intervals. (CRC R602.8.1)
38. Framing of roof/ceiling openings. Openings in roof and ceiling framing shall be framed with a header and trimmer joists. When the header joist span does not exceed 4 feet, the header joist may be a single member the same size as the ceiling joist or rafter. Single trimmer joists may be used to carry a single header joist located within 3 feet of the trimmer joist bearing. When the header joist span exceeds 4 feet, the trimmer joists and header joist shall be doubled and of sufficient cross section to support the ceiling joists or rafters framing into the header. Approved hangers shall be used for the header-joist-to-trimmer-joist connections when the header joist span exceeds 6 feet. Tail joists over 12 feet long shall be supported at the header by framing anchors or on ledger strips minimum 2 inches by 2 inches. (CRC R502.10)
39. Roof framing above shear walls. Rafters or roof trusses shall be connected to top plates of shear walls with blocking between the rafters or trusses. (CRC R602.10.8)
40. Roof diaphragm wall fill framing. Roof plywood shall be continuous under California fill framing.
41. Roof diaphragm at ridges. Minimum 2-inch nominal blocking required for roof diaphragm nailing at ridges.
42. Blocking of roof trusses. Minimum 2-inch nominal blocking required between trusses at ridge lines and at points of bearing at exterior walls.
43. Truss clearance. Minimum 1/2-inch clearance required between top plates of interior non-bearing partitions and bottom chords of trusses.
44. Drilling, cutting, and notching of roof/ceiling framing. Notches in solid lumber joists, rafters, blocking, and beams shall not exceed one-sixth the member depth, shall be not longer than one-third the member depth, and shall not be located in the middle one-third of the span. Notches at member ends shall not exceed one-fourth the member depth. The tension side of members 4 inches or greater in nominal thickness shall not be notched except at member ends. The diameter of holes bored or cut into members shall not exceed one-third the member depth. Holes shall not be closer than 2 inches to the top or bottom of the member or to any other hole located in the member. Where the member is also notched, the hole shall not be closer than 2 inches to the notch. (CRC R502.8.1)
45. Exterior landings, decks, balconies, and stairs. Such elements shall be positively anchored to the primary structure to resist both vertical and lateral forces or shall be designed to be self-supporting. Attachment shall not be accomplished by use of toenails or nails subject to withdrawal. (CRC R313.3)
46. Fireblocking. Fireblocking shall be provided in the following locations (CRC R302.11 and CRC R1003.19):
a. In concealed spaces of stud walls and partitions, including furred spaces, and parallel rows of studs or staggered studs, as follows:
i. Vertically at the ceiling and floor levels
ii. Horizontally at intervals not exceeding 10 feet
b. At all intersections between concealed vertical and horizontal spaces such as occur at soffits, drop ceilings, and cover ceilings
c. In concealed spaces between stair stringers at the top and bottom of the run
d. At openings around vents, pipes, ducts, cables and wires at ceiling and floor level, with an approved material to resist the free passage of flame and products of combustion
e. At chimneys and fireplaces per Item E.49
f. Cornices of a two-family dwelling at the line of dwelling-unit separation
47. Fireblocking materials. Except as otherwise specified in Items E.48 and E.49, fireblocking shall consist of the following materials with the integrity maintained (CRC R302.11.1):
a. Two-inch nominal lumber
b. Two thicknesses of one-inch nominal lumber with broken lap joints
c. One thickness of 23/32-inch wood structural panel with joints backed by 23/32-inch wood structural panel
d. One thickness of 3/4-inch particleboard with joints backed by 3/4-inch particleboard
e. 1/2-inch gypsum board
f. 1/4-inch cement-based mineral
g. Batts or blankets of mineral or glass fiber or other approved materials installed in such a manner as to be securely retained in place. Batts or blankets of mineral or glass fiber or other approved non-rigid materials shall be permitted for compliance with the 10-foot horizontal fireblocking in walls constructed using parallel rows of studs or staggered studs. Unfaced fiberglass batt insulation used as fireblocking shall fill the entire cross-section of the wall cavity to a minimum height of 16 inches measured vertically. When piping, conduit, or similar obstructions are encountered, the insulation shall be packed tightly around the obstruction. Loose-fill insulation material shall not be used as a fireblock unless specifically tested in the form and manner intended for use to demonstrate its ability to remain in place and to retard the spread of fire and hot gases.
48. Fireblocking at openings around vents, pipes, ducts, cables, and wires at ceiling and floor level. Such openings shall be fireblocked with an approved material to resist the free passage of flame and products of combustion. (CRC R302.11)

E. Wood Framing (Continued)

- 49. Fireblocking of chimneys and fireplaces. All spaces between chimneys and floors and ceilings through which chimneys pass shall be fireblocked with noncombustible material securely fastened in place. The fireblocking of spaces between chimneys and wood joists, beams, or headers shall be self-supporting or be placed on strips of metal or metal lath laid across the spaces between combustible material and the chimney. (CRC R1003.19)
50. Draftstopping. In combustible construction where there is usable space both above and below the concealed space of a floor/ceiling assembly, draftstops shall be installed so that the area of the concealed space does not exceed 1000 square feet. Draftstopping shall divide the concealed space into approximately equal areas. Where the assembly is enclosed by a fire membrane above and a ceiling membrane below, draftstopping shall be provided in floor/ceiling assemblies under the following circumstances (CRC R302.12):
a. Ceiling is suspended under the floor framing
b. Floor framing is constructed of truss-type open-web or perforated members
51. Draftstopping materials. Draftstopping shall not be less than 1/2-inch gypsum board, 3/8-inch wood structural panels, or other approved materials adequately supported. Draftstopping shall be installed parallel to the floor framing members unless otherwise approved by the building official. The integrity of draftstops shall be maintained. (CRC R302.12.1)
52. Combustible insulation clearance. Combustible insulation shall be separated minimum 3 inches from recessed luminaires, fan motors, and other heat-producing devices. (CRC R302.14)

F. General Material Specifications

- 1. Lumber. All joists, rafters, beams, and posts 2-inches to 4-inches thick shall be No. 2 grade Douglas Fir-Larch or better. All posts and beams 5 inches and thicker shall be No. 1 grade Douglas Fir-Larch or better. Studs not more than 8 feet long shall be stud-grade Douglas Fir-Larch or better when supporting not more than one floor, roof, and ceiling. Studs longer than 8 feet shall be No. 2 grade Douglas Fir-Larch or better.
2. Concrete. Concrete shall have a minimum compressive strength of 2,500 psi at 28 days and shall consist of 1 part cement, 3 parts sand, 4 parts 1-inch maximum size rock, and not more than 7-1/2 gallons of water per sack of cement. (CRC R402.2)
3. Mortar. Mortar used in construction of masonry walls, foundation walls, and retaining walls shall conform to ASTM C 270 and shall consist of 1 part portland cement, 2-1/4 to 3 parts sand, and 1/4 to 1/2 part hydrated lime. (CBC 2103.2)
4. Grout. Grout shall conform to ASTM C 476 and shall consist of 1 part portland cement, 1/10 part hydrated lime, 2-1/4 to 3 parts sand, and 1 to 2 parts gravel. Grout shall attain a minimum compressive strength of 2,000 psi at 28 days. (CBC 2103.3)
5. Masonry. Masonry units shall comply with ASTM C 90 for load-bearing concrete masonry units. (CBC 2103.1)
6. Reinforcing steel. Reinforcing steel used in construction of reinforced masonry or concrete structures shall be deformed and comply with ASTM A 615. (CBC 2103.4)
7. Structural steel. Steel used as structural shapes such as wide-flange sections, channels, plates, and angles shall comply with ASTM A36. Pipe columns shall comply with ASTM A53. Structural tubes shall comply with ASTM A500, Grade B.
8. Fasteners for preservative-treated wood. Fasteners for preservative-treated and fire-retardant-treated wood - including nuts and washers - shall be of hot dipped zinc-coated galvanized steel, stainless steel, silicon bronze, or copper. (CRC R317.3.1)
Exception: 1/2-inch diameter or greater steel bolts
Exception: Fasteners other than nails and trim rivets may be of mechanically deposited zinc-coated steel with coating weights in accordance with ASTM B 695, Class 55 minimum
Exception: Plain carbon steel fasteners acceptable in SBX/ODT and zinc borate preservative-treated wood in an interior, dry environment
9. Fasteners for fire-retardant-treated wood. Fasteners for fire-retardant-treated wood used in exterior applications shall be of hot dipped zinc-coated galvanized steel, stainless steel, silicon bronze, or copper. (CRC R317.3.3)

G. Roofing and Weatherproofing

- 1. Roof covering. All roof covering shall be installed per applicable requirements of CBC 1507. Roof coverings shall be at least Class A rated in accordance with ASTM E 108 or UL 790, which shall include coverings of slate, clay or concrete roof tile, exposed concrete roof deck, ferrous or copper shingles or sheets. (County Building Code 92.11505.1)
2. Roof flashing. Flashing shall be installed at wall and roof intersections, at gutters, wherever there is a change in roof slope or direction, and around roof openings. Where flashing is of metal, the metal shall be corrosion-resistant with a thickness of not less than 0.019 inch (No. 26 galvanized sheet). (CRC R903.2.1)
3. Crickets and saddles. A cricket or saddle shall be installed on the ridge side of any chimney or penetration more than 30 inches wide as measured perpendicular to the slope. Cricket or saddle covering shall be sheet metal or the same material as the roof covering. (CRC R903.2.2)
4. Water-resistive barrier. A minimum of one layer of No. 15 asphalt felt shall be attached to studs or sheathing of all exterior walls. Such felt or material shall be applied horizontally, with the upper layer lapped over the lower layer minimum 2 inches. Where joints occur, felt shall be lapped minimum 6 inches. The felt shall be continuous to the top of walls and terminated at penetrations and building appendages in a manner to maintain a weather-resistive exterior wall envelope. (CRC R703.2)
5. Wall flashing. Approved corrosion-resistant flashing shall be applied shingle fashion at the following locations to prevent entry of water into the wall cavity or penetration of water to the building structural framing components (CRC R703.8):
a. Exterior door and window openings, extending to the surface of the exterior wall finish or to the water-resistive barrier for subsequent drainage
b. At the intersection of chimneys or other masonry construction with frame or stucco walls, with projecting joists on both sides under stucco copings
c. Under and at the ends of masonry, wood, or metal copings and sills
d. Continuously above all projecting wood trim
e. Where exterior porches, decks, or stairs attach to a wall or floor assembly of wood-frame construction
f. At wall and roof intersections
g. At built-in gutters
6. Dampproofing. Dampproofing materials for foundation walls enclosing usable space below grade shall be installed on the exterior surface of the wall, and shall extend from the top of the footing to finished grade. (CRC R406.1)
7. Weep screed. A minimum 0.019-inch (No. 26 galvanized sheet gage), corrosion-resistant weep screed or plastic weep screed with a minimum vertical attachment flange of 3-1/2 inches shall be provided at or below the foundation plate line on exterior stud walls in accordance with ASTM C 92. The weep screed shall be placed a minimum 4 inches above the earth or 2 inches above paved areas and shall be of a type allowing trapped water to drain to the exterior of the building. (CRC R703.7.2.1)
8. Dampproofing materials for foundation walls enclosing usable space below grade shall be installed on the exterior surface of the wall, and shall extend from the top of the footing to finished grade. (CRC R406.1)
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**GENERAL NOTES AND SPECIFICATIONS**

**WOOD**

- WOOD FRAMING GENERAL:
  - PROVIDE DOUBLE JOISTS UNDER AND PARALLEL TO ALL BEARINGS PARTITIONS.
  - ALL BOLT HOLES SHALL BE DRILLED 1/32" TO 1/16" OVERSIZED.
  - 2x12 JOISTS SHALL BE BLOCKED AT THE SUPPORTS AND AT 8 FEET o.c. (AND RAFTERS GREATER THAN 10" DEPTHS AT THE SUPPORTS AND AT 10 FEET O.C.) WITH SOLID 2x BLOCKING 2" SHALLOWER THAN JOISTS OR APPROVED METAL CROSS BRIDGING.
- WOOD FRAMING MEMBERS: DOUGLAS FIR-LARCH N°2 UNLESS OTHERWISE MARKED ON THE PLANS.
- RAFTER TIES SPACED AT 4 FEET (MAX.) ON CENTER ARE REQUIRED IMMEDIATELY ABOVE CEILING JOISTS WHICH ARE NOT PARALLEL TO THE RAFTERS.

**NAILING SCHEDULE TABLE**

JOIST TO SILL OR GIRDER, TOENAIL	3-8d
BRIDGING TO JOIST, TOENAIL EACH END	2-8d
1"x6" SUBFLOOR OR LESS TO EACH JOIST, FACE NAIL	2-8d
WIDER THAN 1"x6" SUBFLOOR TO EACH JOIST, FACE NAIL	3-8d
2" SUBFLOOR TO JOIST OR GIRDER, BLIND AND FACE NAIL	2-16d
SOLE PLATE TO JOIST OR BLOCKING, TYPICAL FACE NAIL	16d @16" o.c.
SOLE PLATE TO JOIST OR BLOCKING, AT BRACED WALL PANELS	3-16d per 16"
TOP PLATE TO STUD, END NAIL	2-16d
STUD TO SOLE PLATE	4-8d, TOENAIL OR 2-16d, END NAIL
DOUBLE STUDS FACE NAIL	16d @24" o.c.
DOUBLED TOP PLATES, TYPICAL FACE NAIL	16d @16" o.c.
DOUBLE TOP PLATES, LAP SPLICE	8-16d
BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE, TOENAIL	3-8d
RIM JOIST TO TOP PLATE, TOENAIL	8d @6" o.c.
TOP PLATES, LAPS AND INTERSECTIONS, FACE NAIL	2-16d
CONTINUOUS HEADER, TWO PIECES	16d @ o.c. along each edge
CEILING JOISTS TO PLATE, TOENAIL	3-8d
CONTINUOUS HEADER TO STUD, TOENAIL	4-8d
CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	3-16d
CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	3-16d
RAFTER TO PLATE, TOENAIL	3-8d
1"x BRACE TO EACH STUD AND PLATE, FACE NAIL	2-8d
1"x8" SHEATHING OR LESS TO EACH BEARING, FACE NAIL	2-8d
WIDER THAN 1"x8" SHEATHINGS TO EACH BEARING, FACE NAIL	3-8d
BUILT IT-UP CORNER STUDS	16d @24" o.c.
BUILT-UP GIRDER & BEAMS 20d @32" o.c. AT TOP & BOTTOM & STAGGERED	2-20d @ ENDS
2"x PLANKS	2-16d @ EACH BEARING

**WOOD SHEAR AND DIAPHRAGMS:**

- COMMON NAILS SHALL BE USED FOR ALL DIAPHRAGMS AND SHEAR WALL NAILING.
- ROOF SHEATHING: 1/2" THICK PLYWOOD CDX WITH INDEX 32/16. 8d NAILS @ 6" o.c. AT PANELS EDGES, AND 8d NAILS @ 12" o.c. AT PANEL FIELD. ALLOW 1/8" SPACING AT PANEL EDGES, UNLESS OTHERWISE RECOMMENDED BY THE PANEL MANUFACTURER.
- FLOOR SHEATHING: 3/4" THICK PLYWOOD CDX WITH INDEX 32/16. USE 10d COMMON NAILS AT 6" o.c. AND @ PANEL EDGES AND 10" o.c. IN THE FIELD. ALLOW 1/8" SPACING AT PANEL EDGES, UNLESS OTHERWISE RECOMMENDED BY THE PANEL MANUFACTURER.
- PLYWOOD DIAPHRAGMS: PRODUCT STANDARD PS 1-95, DOUGLAS FIR-LARCH.
- WATERPROOFING: STUCCO OVER PLYWOOD SHEAR WALL WILL BE WATERPROOFED WITH A MINIMUM OF TWO 15# (GRADE D) UNDERLAYMENTS.
- ROOF DIAPHRAGM NAILING TO BE INSPECTED BEFORE COVERING. FACE GRAIN OF PLYWOOD SHALL BE PERPENDICULAR TO SUPPORTS. FLOOR SHALL HAVE TONGUE AND GROOVE OR BLOCKED PANELS EDGES. PLYWOOD SPANS SHALL CONFORM WITH TABLE 2304.7.

**WOOD CONSTRUCTION**

- STRUCTURAL LUMBER SHALL BE GRADE-MARKED DOUGLAS FIR-LARCH
 

RAFTERS	2 TO 4 WIDE UP TO 6 DEEP	No. 2
	2 TO 4 WIDE, 8" OR LARGER	No. 2
JOISTS	2 TO 4 WIDE, 6 AND DEEPER	No. 2
BEAMS, PURLINS	OVER 4 WIDE	No. 1
SUB-PURLINS	2 TO 4 WIDE, 4 DEEP	No. 1
LEDGERS		No. 2
STUDS	2x4 OR 3x4	No. 2
STUDS	2x6	No. 2
POSTS		No. 2
SILLS, PLATES AND BLOCKING		No. 2
- SILLS OR PLATES BEARING ON CONCRETE OR MASONRY WHICH IS WITHIN 48" OF EARTH SHALL BE PRESSURE TREATED, OR EQUAL, WOOD SILL PLATES SHALL BE BOLTED TO THE FOUNDATION WITH 5/8" DIAMETER x 10" BOLTS 4"-0" o.c. 12" MIN. FROM ENDS, OR 2 BOLTS MIN. PER PIECE. WHERE DIFFERENT SIZES AND/OR SPACING ARE REQUIRED, THEY SHALL GOVERN. INSTALL WITH 3"x3"x1/4" (OR 2"x2"x3/16") PLATE WASHER AT EACH ANCHOR BOLT.
- PARALLAM BEAMS MUST BE FABRICATED IN A LADBS LICENSED SHOP.
- JOISTS SHALL BE BLOCKED AT SUPPORTS AND BRIDGED OR BLOCKED AT INTERVALS OF 8 FT WHERE JOISTS ARE 2x12 OR DEEPER.
- JOISTS UNDER NON-BEARING PARTITIONS SHALL BE DOUBLED, EXCEPT AS NOTED.
- LAGBOLTS (& SCREWS) SHALL BE PRE-DRILLED TO SHANK DIAMETER AND FULL DEPTH AND SCREWED (NOT DRIVEN) INTO PLACE.
- CUT WASHERS SHALL BE PLACED UNDER HEADS AND NUTS OF ALL BOLTS AND UNDER HEADS OF LAGBOLTS. ONE CUT WASHER SHALL BE USED FOR BOLTS CONNECTING WOOD LEDGERS TO CONCRETE OR MASONRY WALLS.
- ALL HARDWARE USED FOR WOOD CONNECTION SHALL BE SIMPSON STRONG-TIE PRODUCTS. INSTALL PER MANUFACTURERS RECOMMENDATIONS. ALTERNATE PRODUCTS WILL ONLY BE PERMITTED IF WRITTEN APPROVAL AND ACCEPTANCE IS OBTAINED BY ENGINEER.
- ALL LUMBER SHALL HAVE A MOISTURE CONTENT NOT TO EXCEED 19% AT THE TIME OF FABRICATION OR CONSTRUCTION.
- PROVIDE LEAD HOLE 40%-70% OF THREADED SHANK DIA. AND FULL DIA. FOR SMOOTH SHANK PORTION.
- PLACE 2" FIREBLOCKING IN STUD WALLS AT CEILING AND FLOOR LEVELS, AT EACH 10" HEIGHT OF STUDS, AND BETWEEN STAIR STRINGERS AT SUPPORTS.
- ALL DIAPHRAGMS AND SHEAR NAILING SHALL UTILIZE COMMON NAILS OR GALVANIZED BOX.

**PARAMETERS DESIGN CBC 2019**

**WIND DESIGN**

- BASIC WIND SPEED (3-SECOND GUST), MILES PER HOUR = 95
- WIND IMPORTANCE FACTOR, I=1.0 AND OCCUPANCY CATEGORY = II
- WIND EXPOSURE CATEGORY: C (CASE 1)
- THE APPLICABLE INTERNAL PRESSURE COEFFICIENT = 0.18

**SEISMIC DESIGN**

- SEISMIC IMPORTANCE FACTOR, I=1.0, AND OCCUPANCY CATEGORY = II
- MAPPED SPECTRA RESPONSE ACCELERATIONS, Ss=170.10%g AND S1=63.80%g
- SITE CLASS = D
- SPECTRA RESPONSE COEFFICIENTS, Sps=1.134g AND Sp1=0.638g
- SEISMIC DESIGN CATEGORY=D
- BASIC SEISMIC-FORCE-RESISTING SYSTEM(S)=BEARING WALL SYSTEM DESIGN
- BASE SHEAR = 36841 LBS
- TOTAL ADDITION BUILDING WEIGHT = 162439 LBS
- SEISMIC RESPONSE COEFFICIENT(S), Cs=0.174
- RESPONSE MODIFICATION FACTOR(s), R = 6.5
- ANALYSIS PROCEDURE USED : EQUIVALENT LATERAL FORCE PROCEDURE
- REDUNDANCY FACTOR USED: 1.3
- THE DESIGN LOAD BEARING VALUE OF SOILS = 1500 PSF.

**BASIS OF DESIGN**

- ROOF DEAD LOAD = 15 PSF
- CEILING DEAD LOAD = 7 PSF
- FLOOR DEAD LOAD = 15 PSF
- EXT. WALL DEAD LOAD = 11 PSF
- INT. WALL DEAD LOAD = 8 PSF
- ROOF LIVE LOAD = 20 PSF
- CEILING LIVE LOAD = 10 PSF
- FLOOR LIVE LOAD = 40 PSF

**CONCRETE NOTES**

**CONCRETE FOUNDATION, FLOOR SLABS,**

- ALL CONCRETE SHALL ATTAIN THE FOLLOWING MINIMUM STRENGTHS AT 28 DAYS: FOOTINGS AND SLAB-ON-GRADE = 2500 PSI
- BAR SPLICES IN CONCRETE SHALL BE LAP 40 BAR DIAMETERS MINIMUM, AND MAY BE WIRED TOGETHER, UNLESS OTHERWISE NOTED ON PLANS.

**RESEARCH REPORT**

**ICC-ES REPORT #**

HDU	ESR-2330
CC COLUMN CAP	ESR-2604
SHOT PINS	ESR-1799
U HANGER	ESR-2549
FRAMING CLIPS	ESR-2606
PARALLAM	ESR-1387

STRUCTURAL OBSERVATION/ SIGNIFICANT CONSTRUCTION STAGES (Only Checked items are required)		
Firm or Individual to be responsible for the "Structural Observation": Registered Engineer: <input type="checkbox"/> <input type="checkbox"/> California Registration Number: <input type="checkbox"/> <input type="checkbox"/>		
CONSTRUCTION STAGE	Construction Type	Elements/Connections to be observed
Foundation	<input checked="" type="checkbox"/> Footing, Stem Walls, Piers	Rebar Size & Placement
	<input type="checkbox"/> Mat Foundation <input type="checkbox"/> Caisson, Pile, Grade beams <input type="checkbox"/> Stepping/Retaining <input type="checkbox"/> Foundation, Hillside Special <input type="checkbox"/> Anchors <input type="checkbox"/> Others:	
Wall	<input type="checkbox"/> Concrete <input type="checkbox"/> Masonry	Shear Wall, Framing Connections
	<input checked="" type="checkbox"/> Wood <input type="checkbox"/> Others:	
Frame	<input type="checkbox"/> Steel Moment Frame <input type="checkbox"/> Steel Braced Frame <input type="checkbox"/> Concrete Moment Frame <input type="checkbox"/> Masonry Moment Frame <input type="checkbox"/> Others:	
	Diaphragm	<input type="checkbox"/> Concrete <input type="checkbox"/> Steel Deck <input checked="" type="checkbox"/> Wood <input type="checkbox"/> Others:
Others		

**DECLARATION BY OWNER OR OWNER'S REPRESENTATIVE**

I, the owner of the project the owner's representative, declare that the above listed firm or individual is hired by me to be the Structural Observer.

Signature

Date

**DECLARATION BY ARCHITECT OR ENGINEER OF RECORD** ( required if the Structural Observer is different from the Architect or Engineer of Record)

I, the Architect or Engineer of Record for the project, declare that the above listed firm or individual is designated by me to be responsible for the "Structural Observation").

Signature

Date

License No.

**ADDITIONAL NOTES**

- CONTRACTORS RESPONSIBLE FOR THE CONSTRUCTION OF A WIND OR SEISMIC FORCE RESISTING SYSTEM/COMPONENT LISTED IN THE "STATEMENT OF SPECIAL INSPECTION" SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE LADBS INSPECTORS AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON SUCH SYSTEM OR COMPONENT PER SEC. 1709.1.

- IF ADVERSE SOIL CONDITIONS ARE ENCOUNTERED, A SOILS INVESTIGATION REPORT MAY BE REQUIRED.

- PERIODIC SPECIAL INSPECTION IS REQUIRED FOR WOOD SHEAR WALLS, SHEAR PANELS, AND DIAPHRAGMS, INCLUDING NAILING, BOLTING, ANCHORING, AND OTHER FASTENING COMPONENTS OF THE SEISMIC FORCE RESISTING SYSTEM. SPECIAL INSPECTION BY A DEPUTY INSPECTOR IS REQUIRED WHERE THE FASTENER SPACING OF THE SHEATHING IS 4 INCHES ON CENTER OR LESS.

- FOUNDATION SILLS SHALL BE NATURALLY DURABLE OR PRESERVATIVE-TREATED WOOD.

- FIELD WELDING TO BE DONE BY WELDERS CERTIFIED BY THE LADBS FOR STRUCTURAL STEEL. CONTINUOUS INSPECTION BY A DEPUTY INSPECTOR IS REQUIRED.

- SHOP WELDS MUST BE PERFORMED IN A LADBS LICENSED FABRICATOR'S SHOP.

- LADBS LICENSED FABRICATOR IS REQUIRED FOR STRUCTURAL STEEL.

- PROVIDE LEAD HOLE 40%-70% OF THREADED SHANK DIA. AND FULL DIA. FOR SMOOTH SHANK PORTION.

- A COPY OF THE CALIFORNIA RESEARCH REPORT AND/OR CONDITIONS OF LISTING SHALL BE MADE AVAILABLE AT THE JOB SITE.

- HOLD-DOWN CONNECTOR BOLTS INTO WOOD FRAMING REQUIRE APPROVED PLATE WASHERS; AND HOLD-DOWNS SHALL BE FINGER TIGHT AND 1/2 WRENCH TURN JUST PRIOR TO COVERING THE WALL FRAMING. CONNECTOR BOLTS INTO WOOD FRAMING REQUIRE STEEL PLATE WASHERS IN ACCORDANCE WITH TABLE 2305.5 OF THE CALIFORNIA BUILDING CODE.

- ROOF DIAPHRAGM NAILING TO BE INSPECTED BEFORE COVERING. FACE GRAIN OF PLYWOOD SHALL BE PERPENDICULAR TO SUPPORTS. FLOOR SHALL HAVE TONGUE AND GROOVE OR BLOCKED PANEL EDGES. PLYWOOD SPANS SHALL CONFORM WITH TABLE 2304.7.

- ALL DIAPHRAGM AND SHEAR WALL NAILING SHALL UTILIZE COMMON NAILS OR GALVANIZED BOX.

- ALL BOLT HOLES SHALL BE DRILLED 1/32" TO 1/16" OVERSIZED.

- HOLD-DOWN HARDWARE MUST BE SECURED IN PLACE PRIOR TO FOUNDATION INSPECTION.

**GENERAL NOTES FOR STRUCTURAL OBSERVATION:**

- STRUCTURAL OBSERVATION IS REQUIRED FOR THE STRUCTURAL SYSTEM IN ACCORDANCE WITH THE INFORMATION BULLETIN NO. P/BC 2002-024 STRUCTURAL OBSERVATION IS THE VISUAL OBSERVATION AT THE CONSTRUCTION SITE OF THE ELEMENTS AND CONNECTIONS OF THE STRUCTURAL SYSTEM AT SIGNIFICANT CONSTRUCTION STAGES AND THE COMPLETE STRUCTURE FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS. STRUCTURAL OBSERVATION DOES NOT WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED OF THE BUILDING INSPECTOR OR THE DEPUTY INSPECTOR.

- THE OWNER SHALL EMPLOY A STATE OF CALIFORNIA REGISTERED CIVIL OR STRUCTURAL ENGINEER OR LICENSED ARCHITECT TO PERFORM THE STRUCTURAL OBSERVATION. THE DEPARTMENT OF BUILDING AND RECOMMENDS THE USE OF THE ENGINEER OR ARCHITECT RESPONSIBLE FOR THE (LADBS) SAFETY STRUCTURAL DESIGN WHO ARE INDEPENDENT OF THE CONTRACTOR.

- THE STRUCTURAL OBSERVER SHALL PROVIDE EVIDENCE OF EMPLOYMENT BY THE OWNER OR THE OWNER'S REPRESENTATIVE. A LETTER FROM THE OWNER, THE OWNER'S REPRESENTATIVE, OR A COPY OF THE AGREEMENT FOR SERVICES SHALL BE SENT TO THE BUILDING INSPECTOR BEFORE THE FIRST SITE VISIT.

- THE OWNER OR OWNER'S REPRESENTATIVE SHALL COORDINATE AND CALL FOR A MEETING BETWEEN THE ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL DESIGN, STRUCTURAL OBSERVER, CONTRACTOR, AFFECTED SUBCONTRACTORS AND DEPUTY INSPECTORS. THE PURPOSE OF THE MEETING SHALL BE TO IDENTIFY THE MAJOR STRUCTURAL ELEMENTS AND CONNECTIONS THAT AFFECT THE VERTICAL AND LATERAL LOAD SYSTEMS OF THE STRUCTURE AND TO REVIEW SCHEDULING OF THE REQUIRED OBSERVATIONS. A RECORD OF THE MEETING SHALL BE INCLUDED IN THE FIRST OBSERVATION REPORT SUBMITTED TO THE BUILDING INSPECTOR.

- THE STRUCTURAL OBSERVER SHALL PERFORM SITE VISITS AT THOSE STEPS IN THE PROGRESS OF THE WORK THAT ALLOW FOR CORRECTION OF DEFICIENCIES WITHOUT SUBSTANTIAL EFFORT OR UNCOVERING OF THE WORK INVOLVED. AT A MINIMUM, THE LISTED SIGNIFICANT CONSTRUCTION STAGES ON THE FOLLOWING STRUCTURAL OBSERVATION/SIGNIFICANT CONSTRUCTION STAGES TABLE REQUIRE A SITE VISIT AND AN OBSERVATION REPORT FROM THE STRUCTURAL OBSERVER.

- THE STRUCTURAL OBSERVER SHALL PREPARE A REPORT OF THE STRUCTURAL OBSERVATION REPORT FORM IN/FORM.08 (PART 1) FOR EACH SIGNIFICANT STAGE OF CONSTRUCTION OBSERVED. THE ORIGINAL OF THE STRUCTURAL OBSERVATION REPORT SHALL BE SENT TO THE BUILDING INSPECTOR'S OFFICE AND SHALL BE SIGNED AND SEALED (WET STAMP) BY THE RESPONSIBLE STRUCTURAL OBSERVER. ONE COPY OF THE OBSERVATION REPORT SHALL BE ATTACHED TO THE APPROVED PLANS. THE COPY ATTACHED TO THE PLANS SHALL BE SIGNED AND SEALED (WET STAMP) BY THE RESPONSIBLE STRUCTURAL OBSERVER OR THEIR DESIGNEE. COPIES OF THE REPORT SHALL ALSO BE GIVEN TO THE OWNER, CONTRACTOR, AND DEPUTY INSPECTOR. ANY DEFICIENCY NOTED ON THE OBSERVATION REPORT WILL BECOME THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER OF RECORD TO VERIFY ITS COMPLETION BY HIM (HER), OR BY A REGISTERED DEPUTY INSPECTOR AT THE DISCRETION OF THE STRUCTURAL OBSERVER.

- A FINAL OBSERVATION REPORT AND THAT OF THE REGISTERED DEPUTY INSPECTOR MUST BE SUBMITTED WHICH SHOWS THAT ALL OBSERVED DEFICIENCIES WERE RESOLVED AND STRUCTURAL SYSTEM GENERALLY CONFORMS WITH THE APPROVED PLANS AND SPECIFICATIONS. THE DEPARTMENT OF BUILDING AND SAFETY WILL NOT ACCEPT THE STRUCTURAL WORK WITHOUT THIS FINAL OBSERVATION REPORT AND THAT OF THE REGISTERED DEPUTY INSPECTOR (WHEN PROVIDED) AND THE CORRECTION OF SPECIFIC DEFICIENCIES NOTED DURING NORMAL BUILDING INSPECTION.

- THE STRUCTURAL OBSERVER SHALL PROVIDE THE ORIGINAL STAMPED AND SIGNED STRUCTURAL DEPARTMENT OF BUILDING AND SAFETY BUILDING THE COUNTY OF LOS ANGELES OBSERVATION REPORT TO INSPECTOR.

- WHEN THE OWNER ELECTS TO CHANGE THE STRUCTURAL OBSERVER OF RECORD, THE OWNER SHALL:
  - NOTIFY THE BUILDING INSPECTOR IN WRITING BEFORE THE NEXT INSPECTION BY SUBMITTING COMPLETED "STRUCTURAL OBSERVATION PROGRAM AND DESIGNATION OF THE STRUCTURAL OBSERVER" FORM IN/FORM.08 (PART 2)
  - CALL AN ADDITIONAL RECONSTRUCTION MEETING.
  - FURNISH THE REPLACEMENT STRUCTURAL OBSERVER WITH A COPY OF ALL PREVIOUS OBSERVATION REPORTS. THE REPLACEMENT STRUCTURAL OBSERVER SHALL APPROVE THE CORRECTION OF THE ORIGINAL OBSERVED DEFICIENCIES UNLESS OTHERWISE APPROVED BY PLAN CHECK SUPERVISION. THE POLICY OF THE DEPARTMENT SHALL BE TO CORRECT ANY PROPERTY NOTED DEFICIENCIES WITHOUT CONSIDERATION OF THEIR SOURCE.

- THE ENGINEER OR ARCHITECT OF RECORD SHALL DEVELOP ALL CHANGES RELATING TO THE STRUCTURAL SYSTEMS. THE BUILDING DEPARTMENT SHALL REVIEW AND APPROVE ALL CHANGES TO THE APPROVED PLANS AND SPECIFICATIONS.

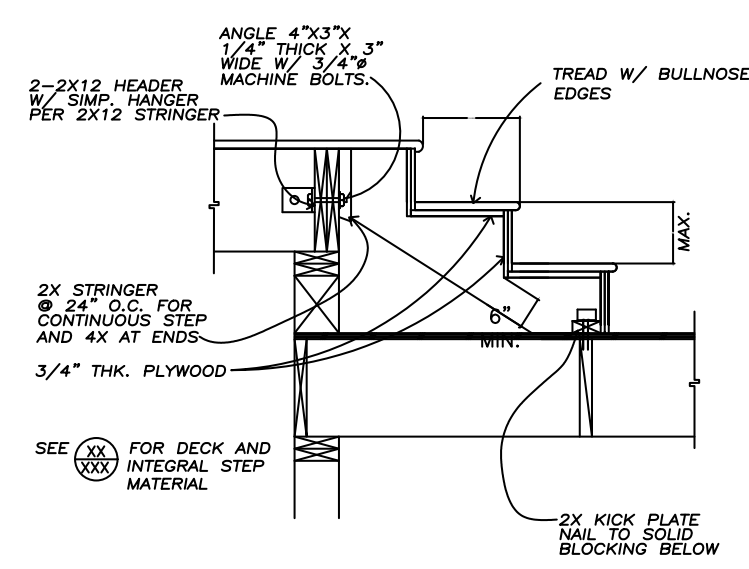
**PROPOSED REMODEL FOR  
CHESTER HOWE  
5606 FRIARS RD # 306,  
SAN DIEGO, CA 92110**

**PROJECT TITLE**  
**STRUCTURAL**

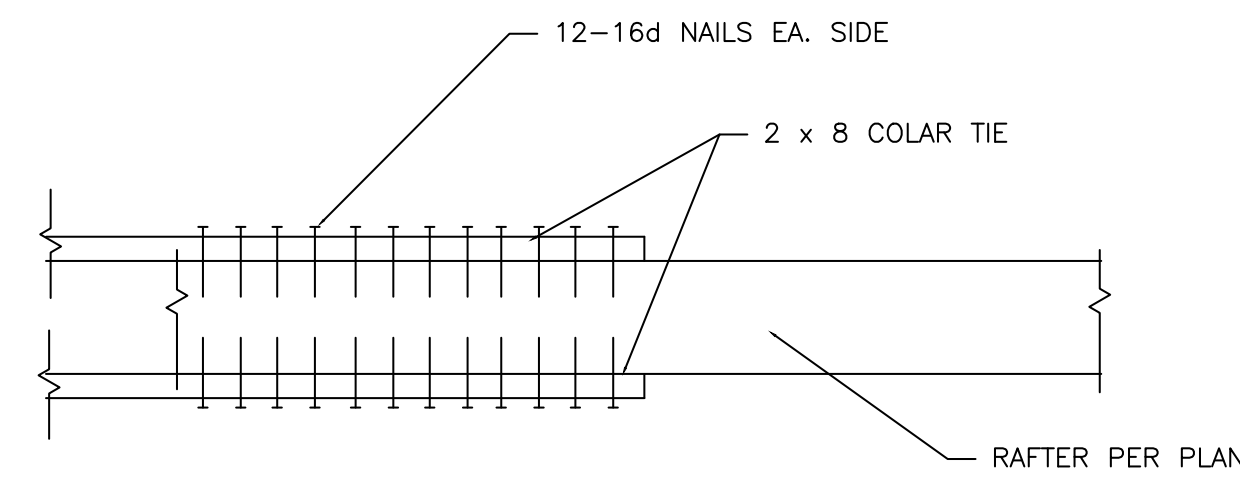
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	APR.	
	PLAN CHECK	
	CORRECTIONS	
	PERMIT	
No.	Revised/Issue	Date

**ADVANCED DEVELOPMENT**  
 RESIDENTIAL COMMERCIAL INDUSTRIAL  
 7877 BIRARD AVE SUITE 106  
 LA JOLLA, CA 92037  
 PH: 619-593-0909  
 FAX: 619-593-0909  
 EMAIL: info@advanceddevelopment.net  
 WEBSITE: WWW.ADVANCEDDEVELOPMENT.NET  
 License# 905815

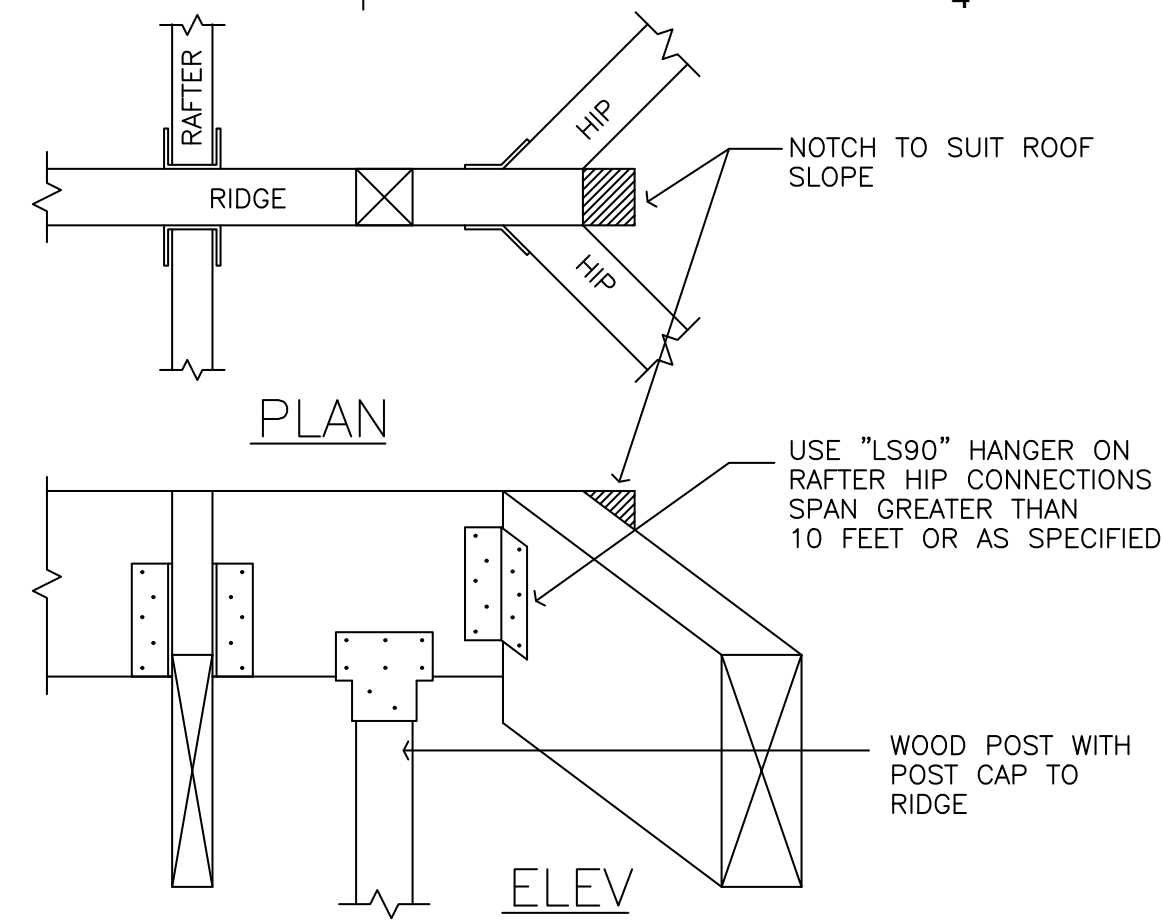
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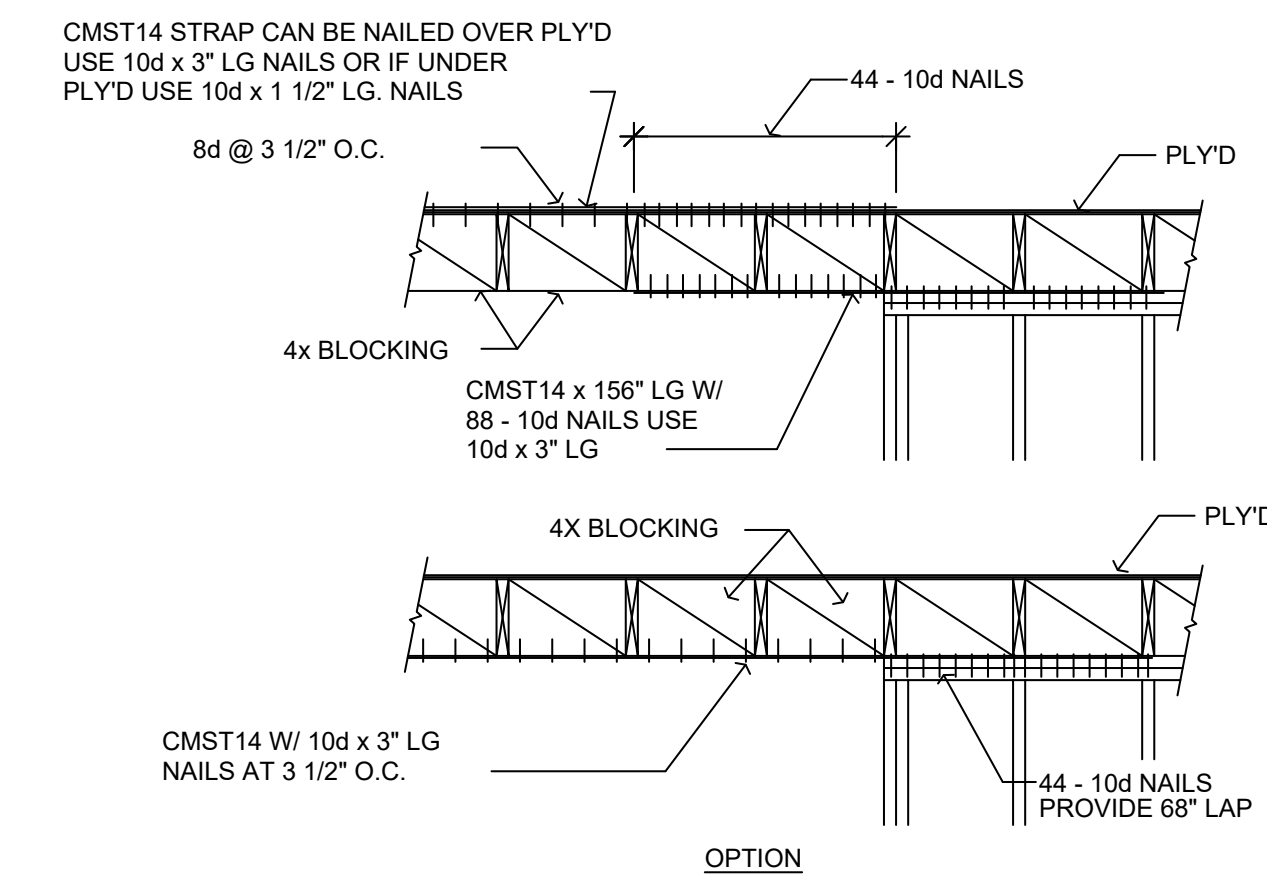
**1 STEP DETAIL**  
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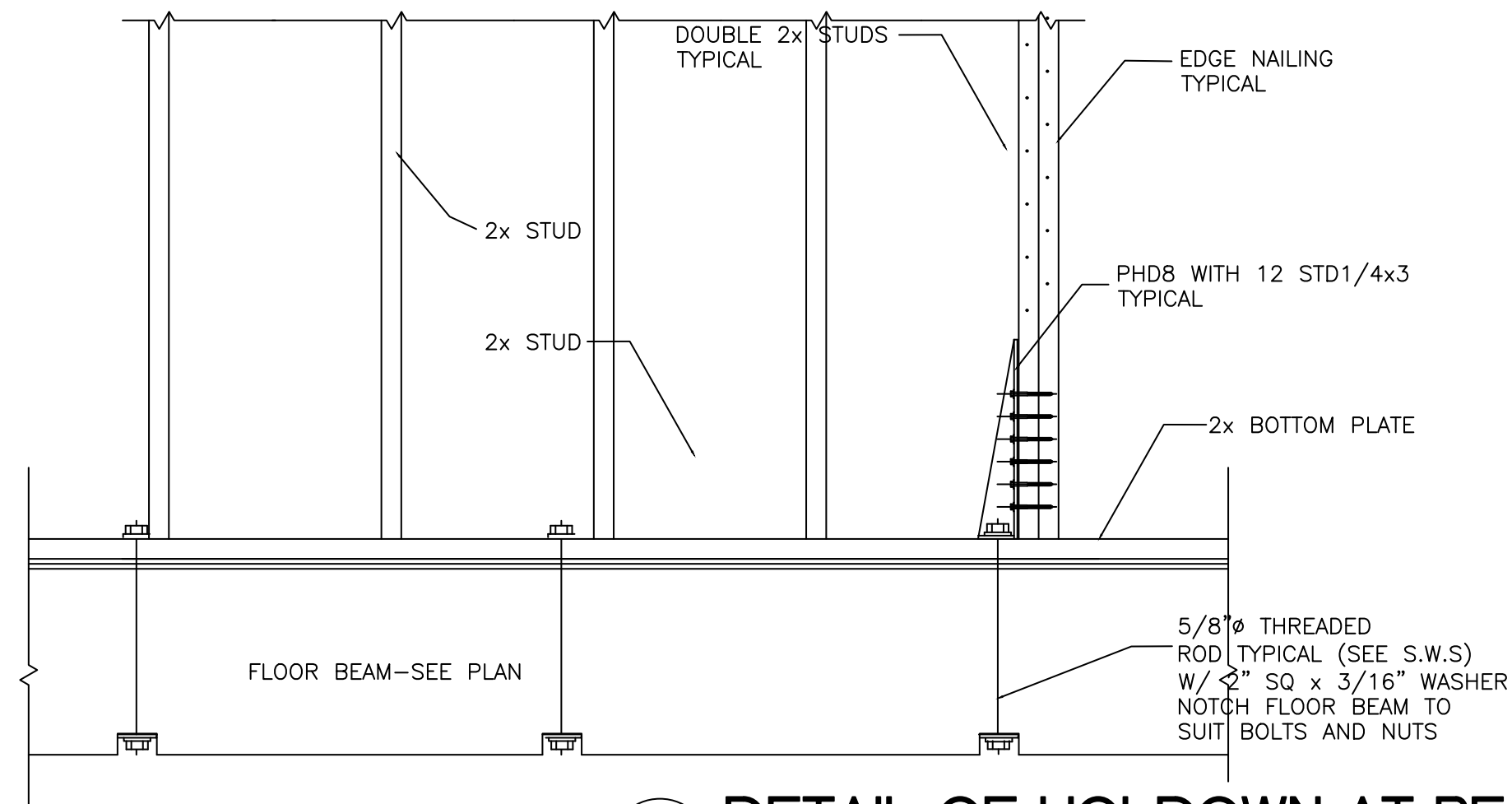
**9 DETAIL OF COLAR TIE AT ROOF**  
1"=1'-0"



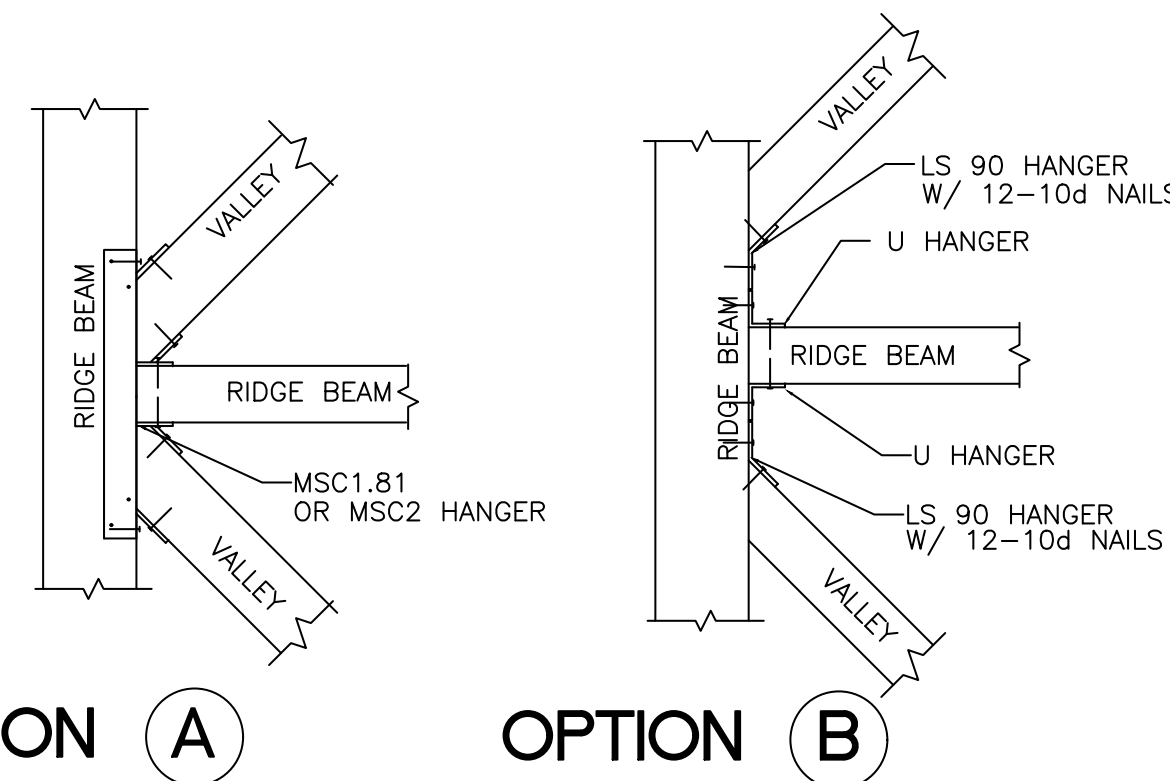
**5 CONN. OF RIDGE TO HIP**  
1"=1'-0"



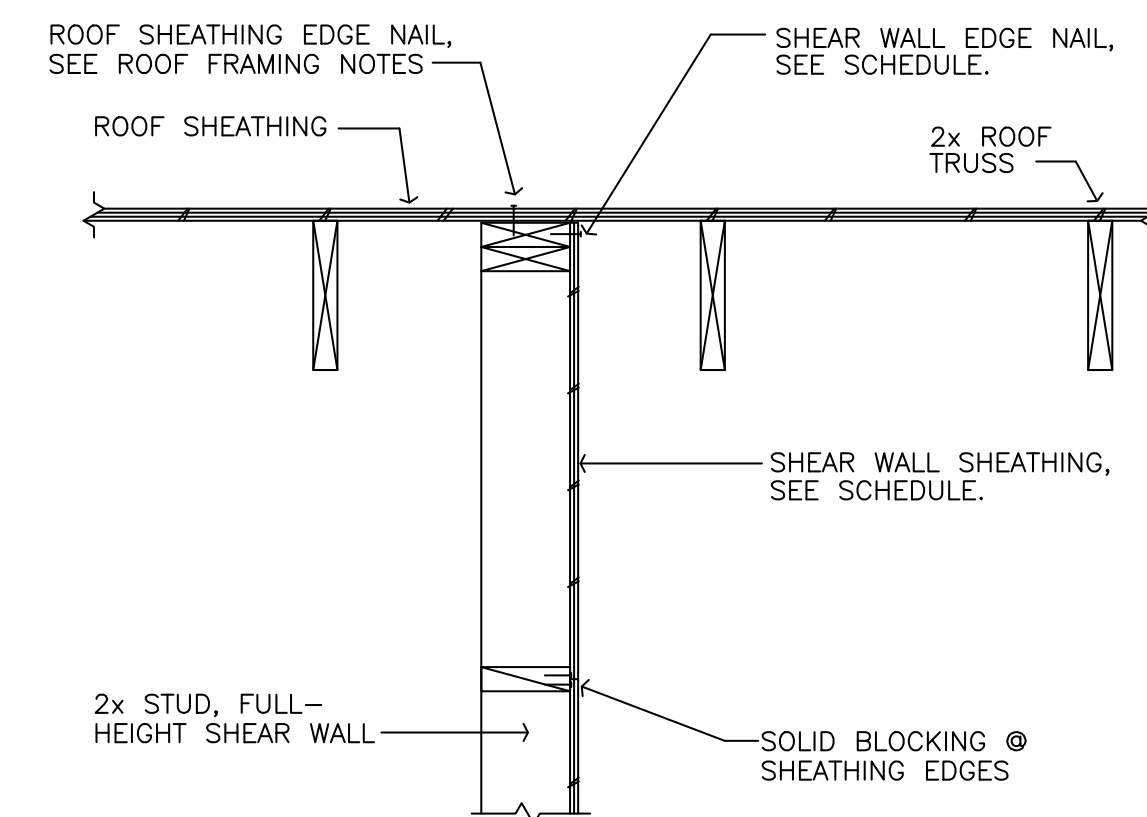
**11 CMST14 DRAG TIE STRAP**  
1/2"=1'-0"



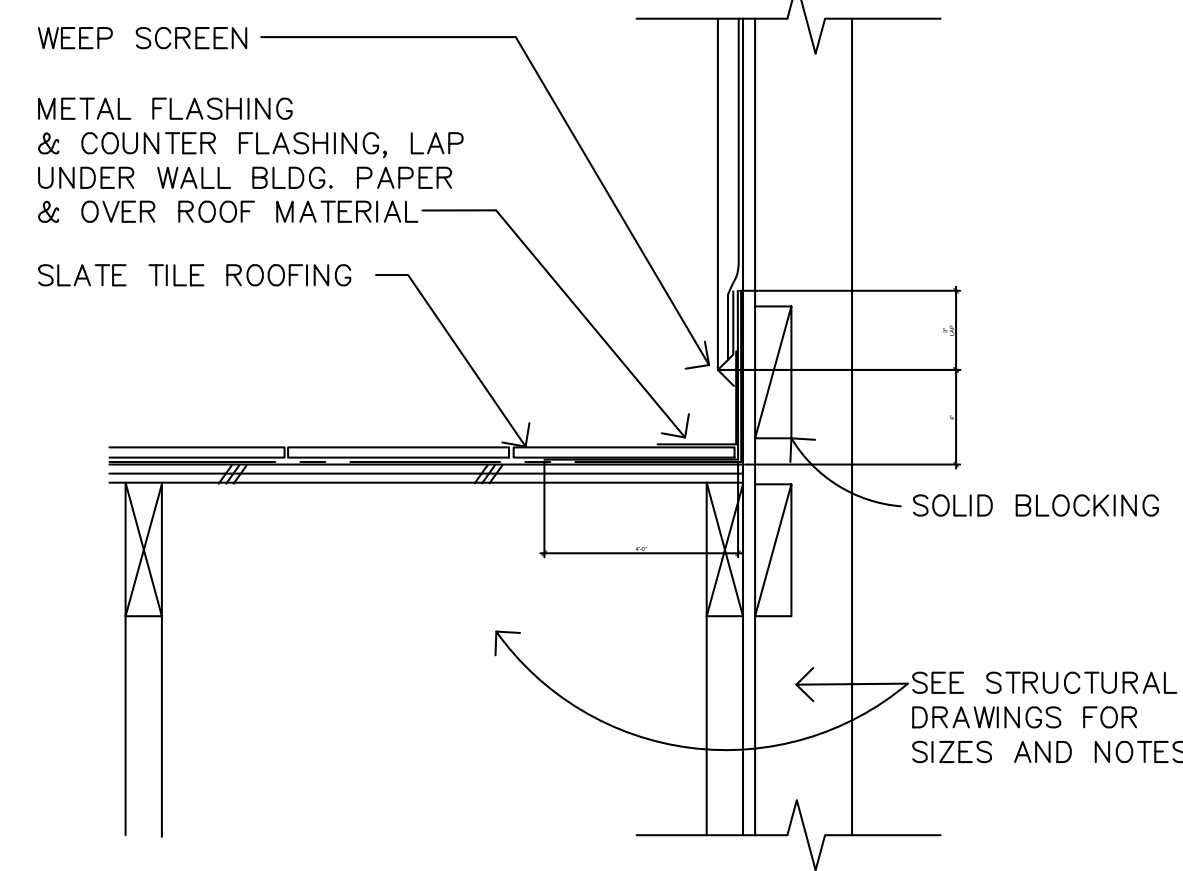
**2 DETAIL OF HOLDOWN AT BEAM**  
1"=1'-0"



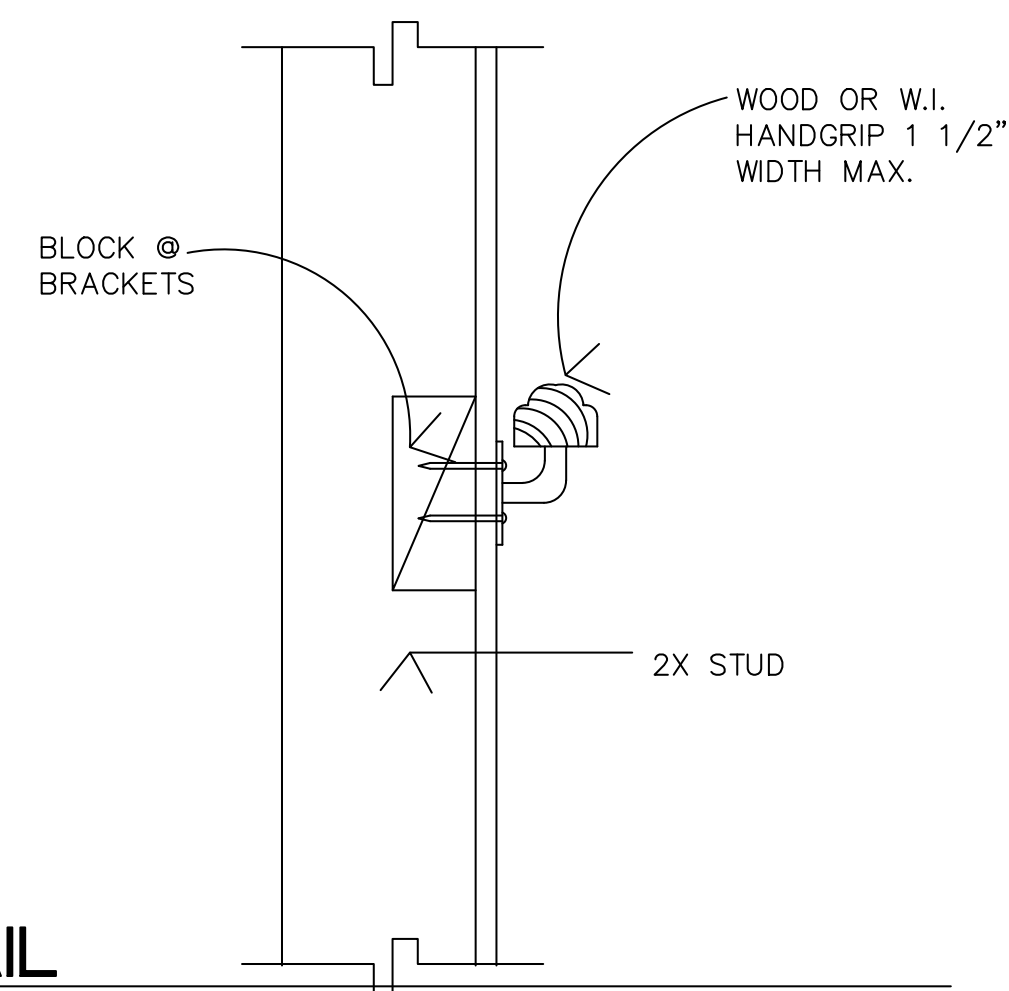
**6 CONN. OF R.B.'S AND V.B.'S AT ROOF**  
1"=1'-0"



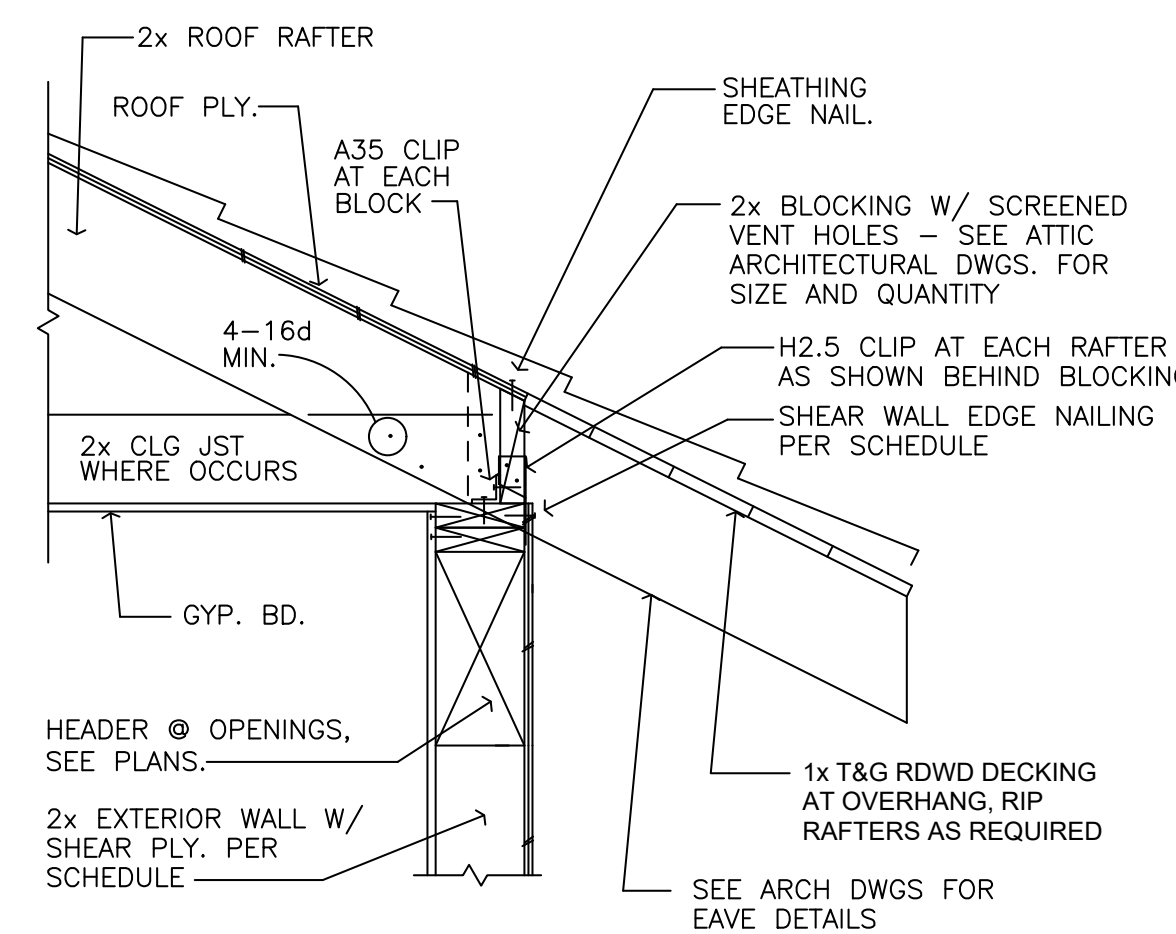
**12 INT. SHEAR WALL AT ROOF**  
1"=1'-0"



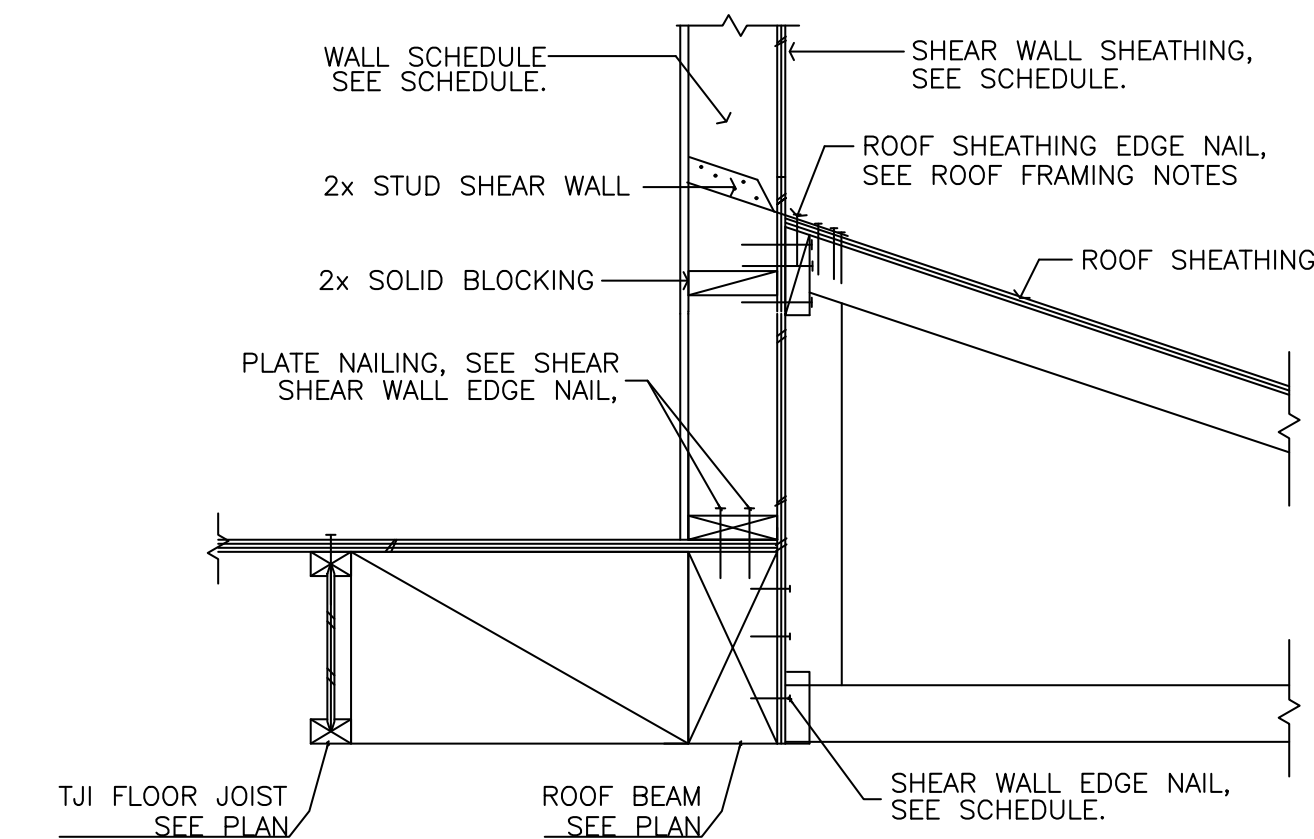
**3 DETAIL**  
1"=1'-0"



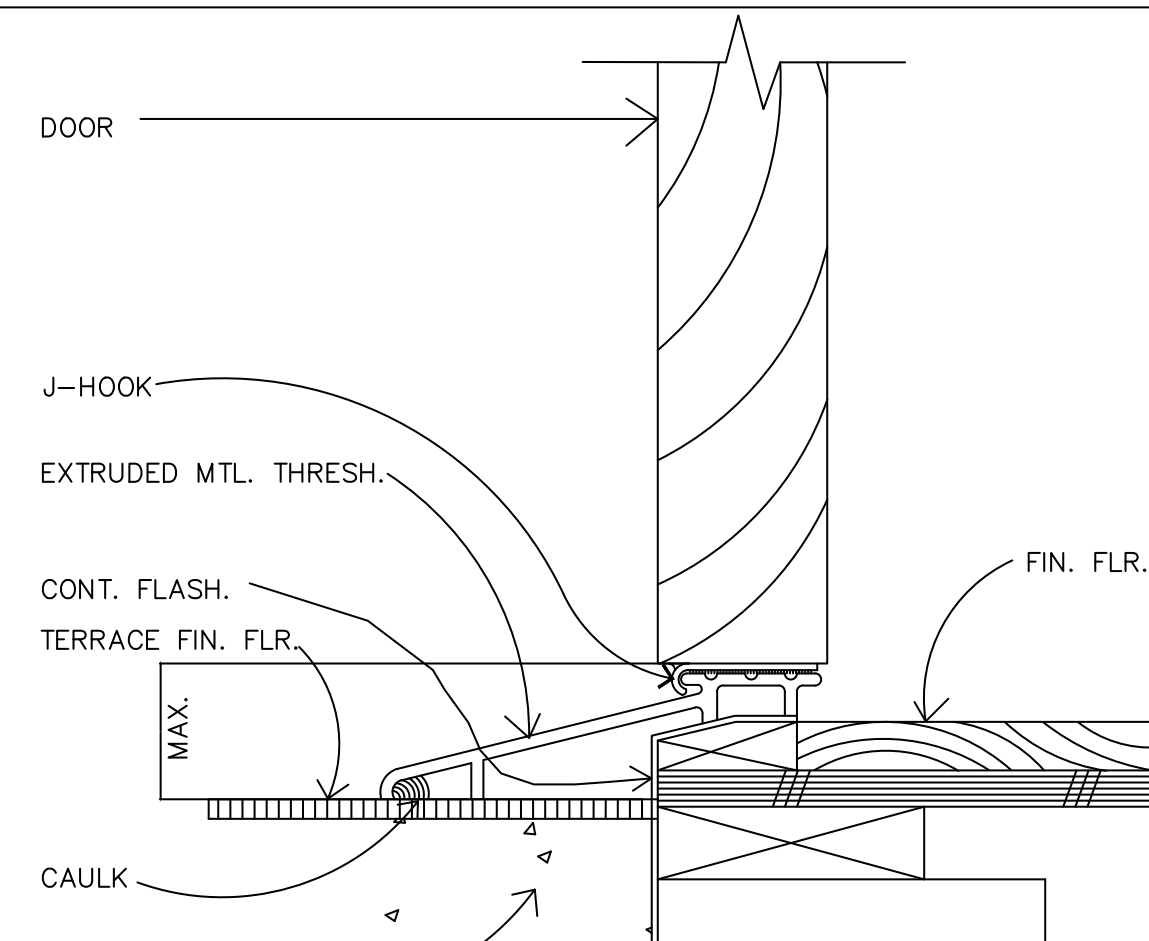
**7 DETAIL**  
1"=1'-0"



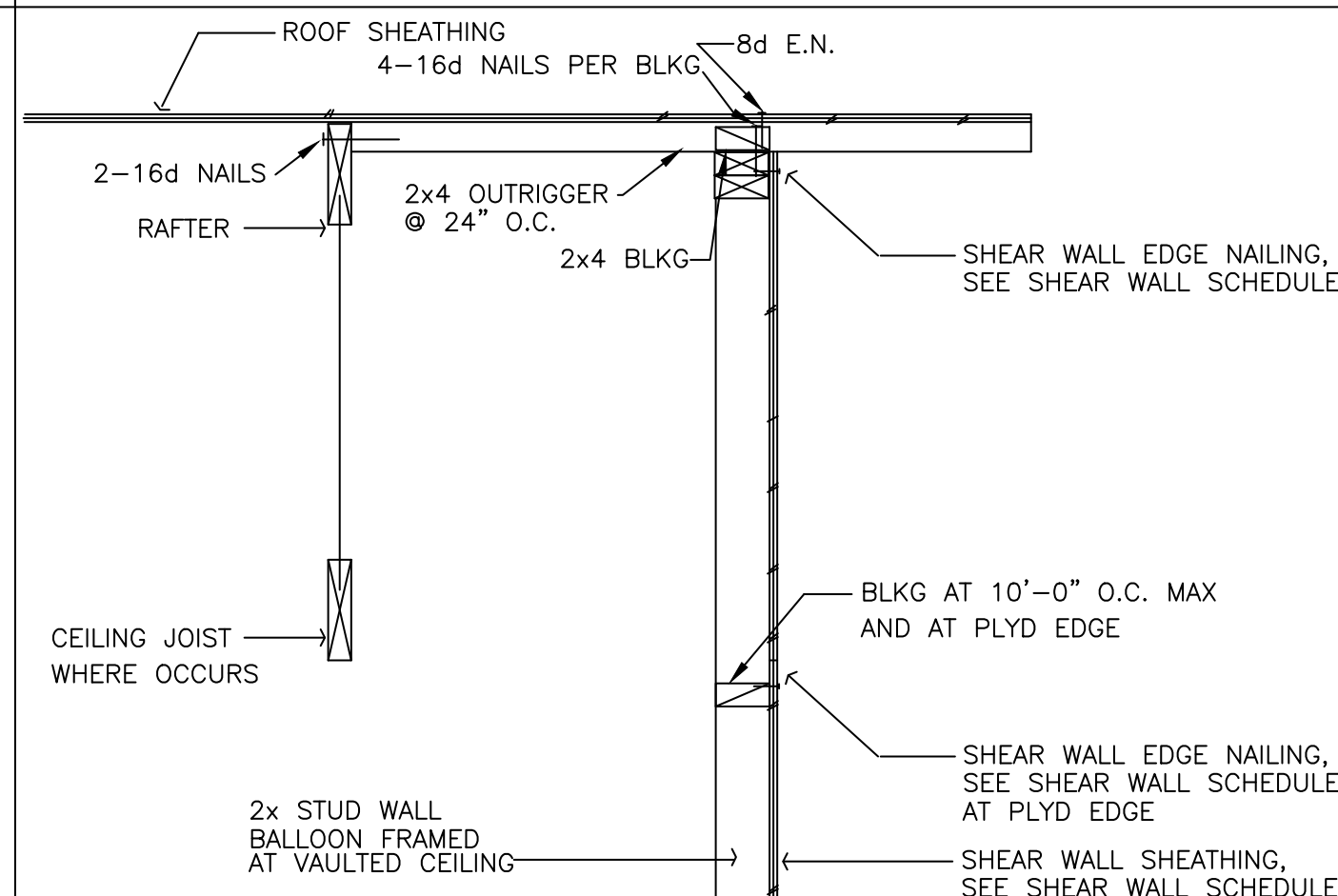
**9 TYPICAL EAVES**  
1"=1'-0"



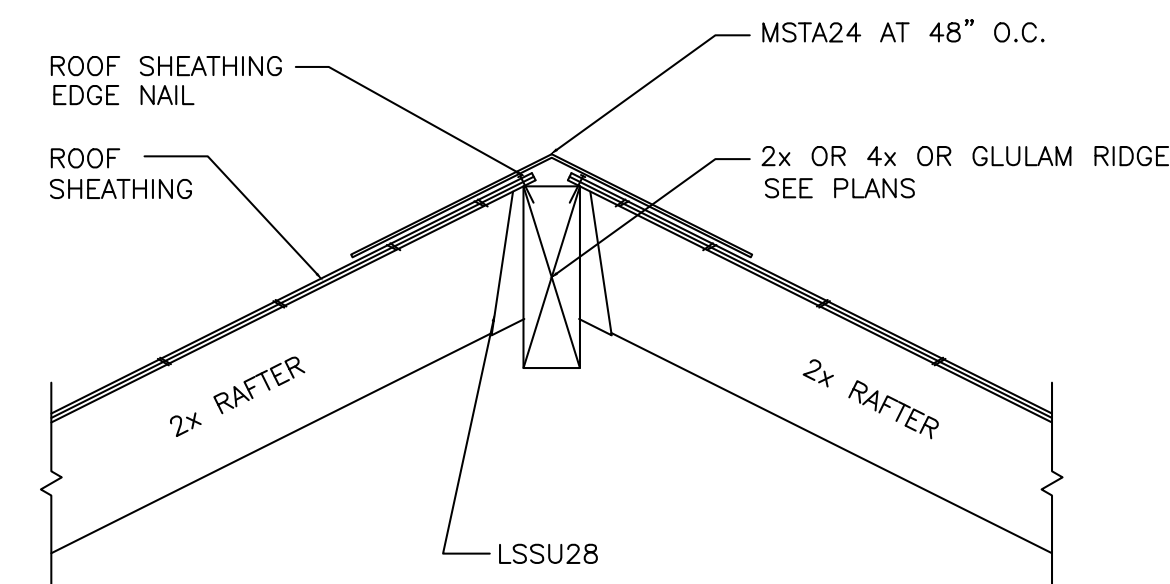
**13 LEDGER AT EXTERIOR WALL**  
1"=1'-0"



**4 THRESHOLD**  
1"=1'-0"



**8 RAKE DETAIL**  
1"=1'-0"



**10 TYP. RIDGE BOARD**  
1"=1'-0"



**14**  
1"=1'-0"

**PROPOSED REMODEL FOR  
CHESTER HOWE  
5606 FRIARS RD # 306,  
SAN DIEGO, CA 92110**

**STRUCTURAL**

NO.	REVISION/ISSUE	DATE
1	CLIENT REVIEW	6/21/2023
2	APR.	
3	PLAN CHECK	
4	CORRECTIONS	
5	PERMIT	
6		
7		

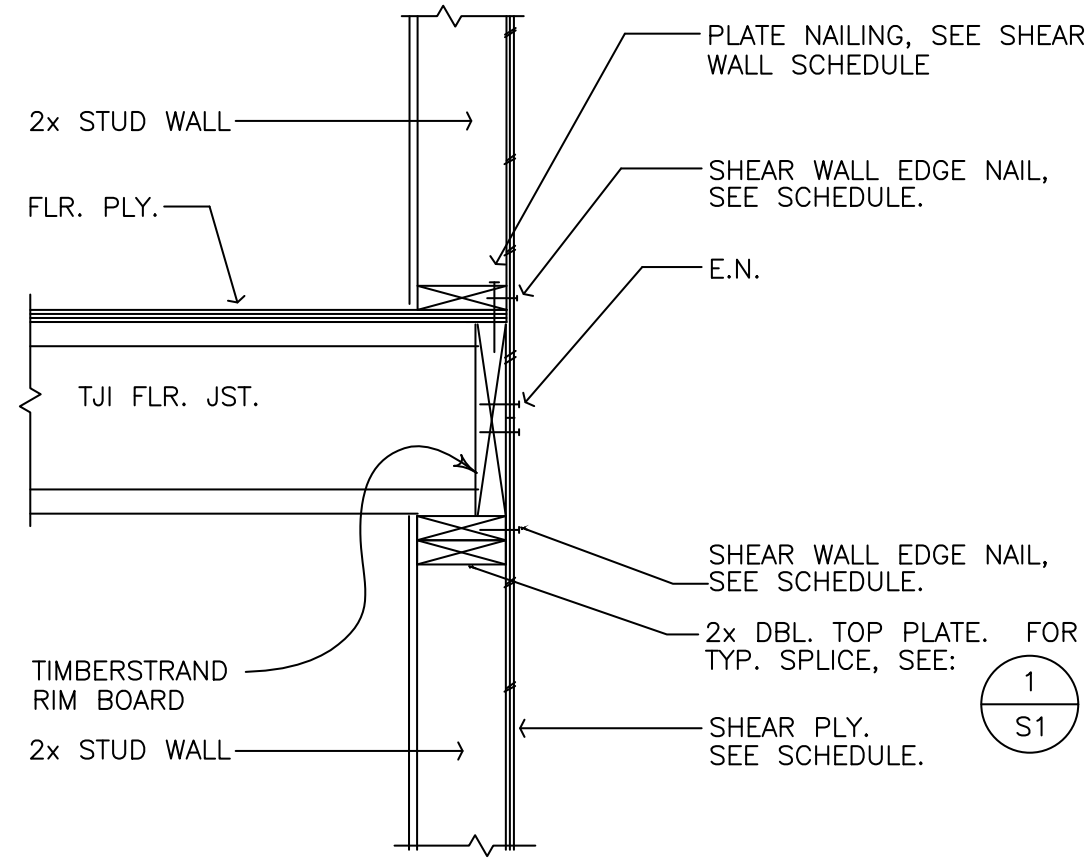
**ADVANCED DEVELOPMENT**  
RESIDENTIAL COMMERCIAL INDUSTRIAL

7877 BIRARD AVE SUITE 106  
LA JOLLA, CA 92037  
PHONE: 858-593-9999  
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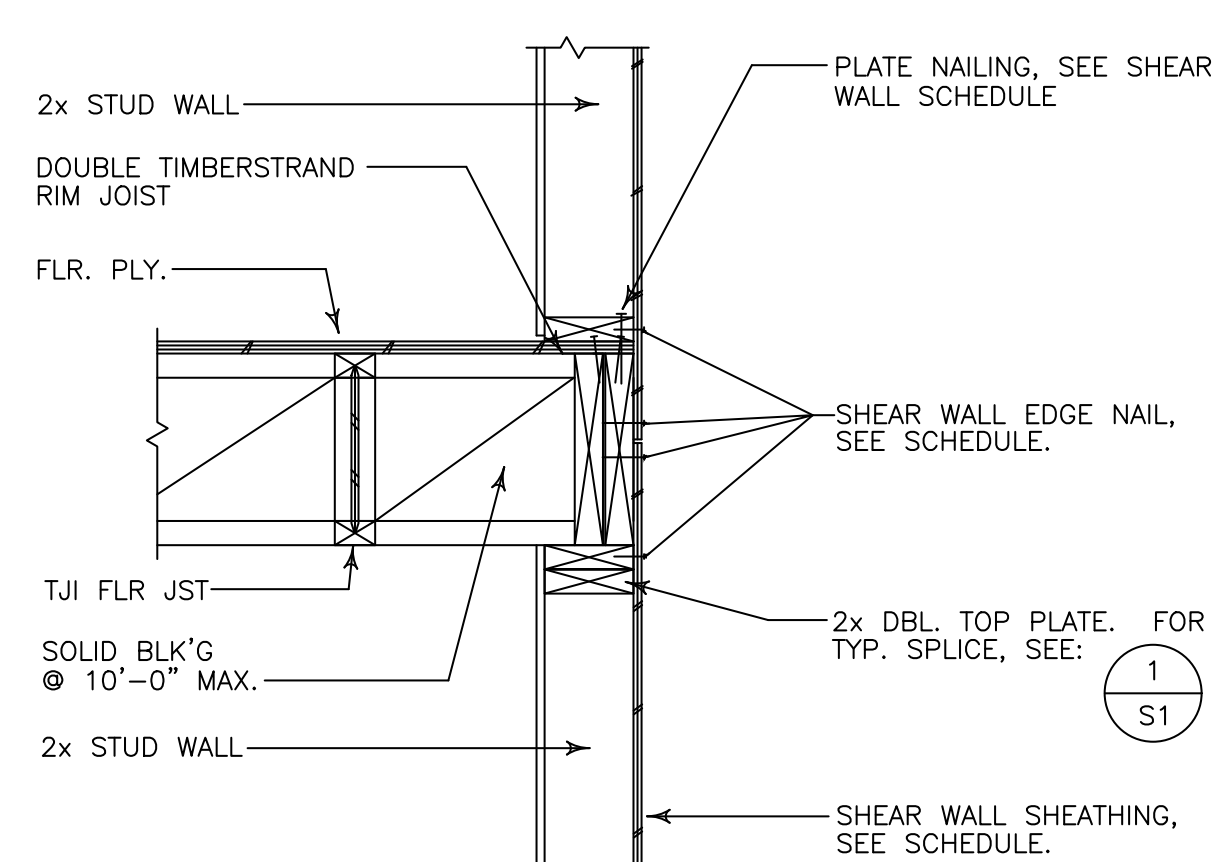
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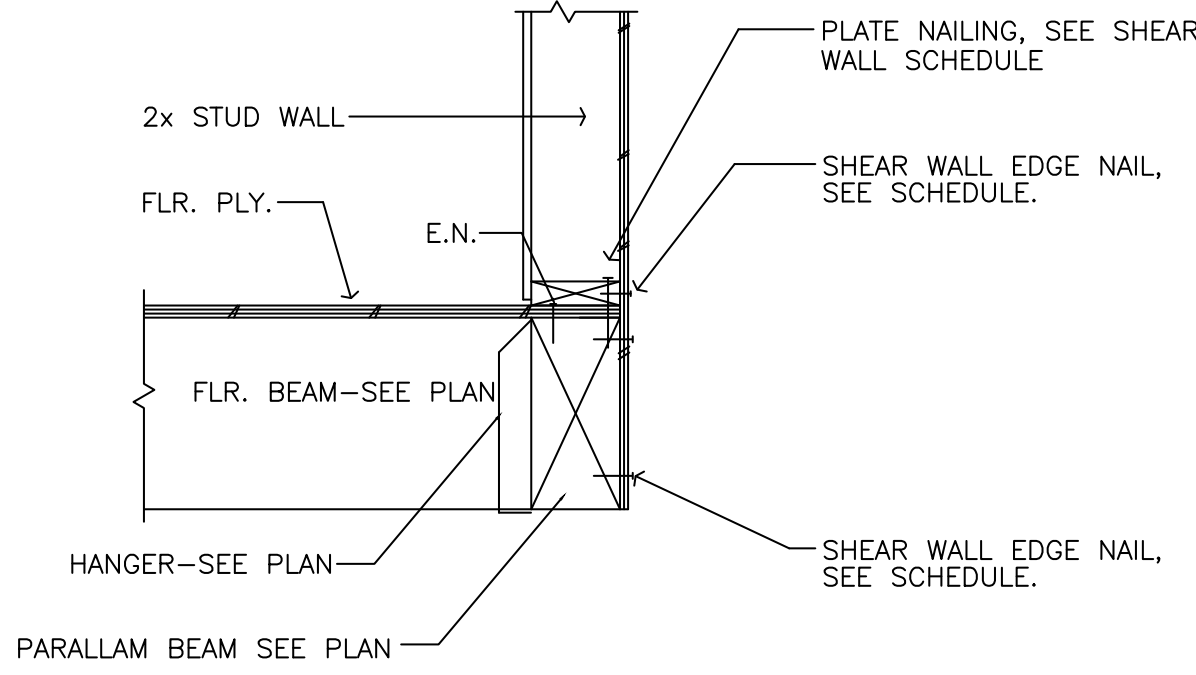
**1 SECOND FLOOR AT EXT. WALL**  
1"=1'-0"



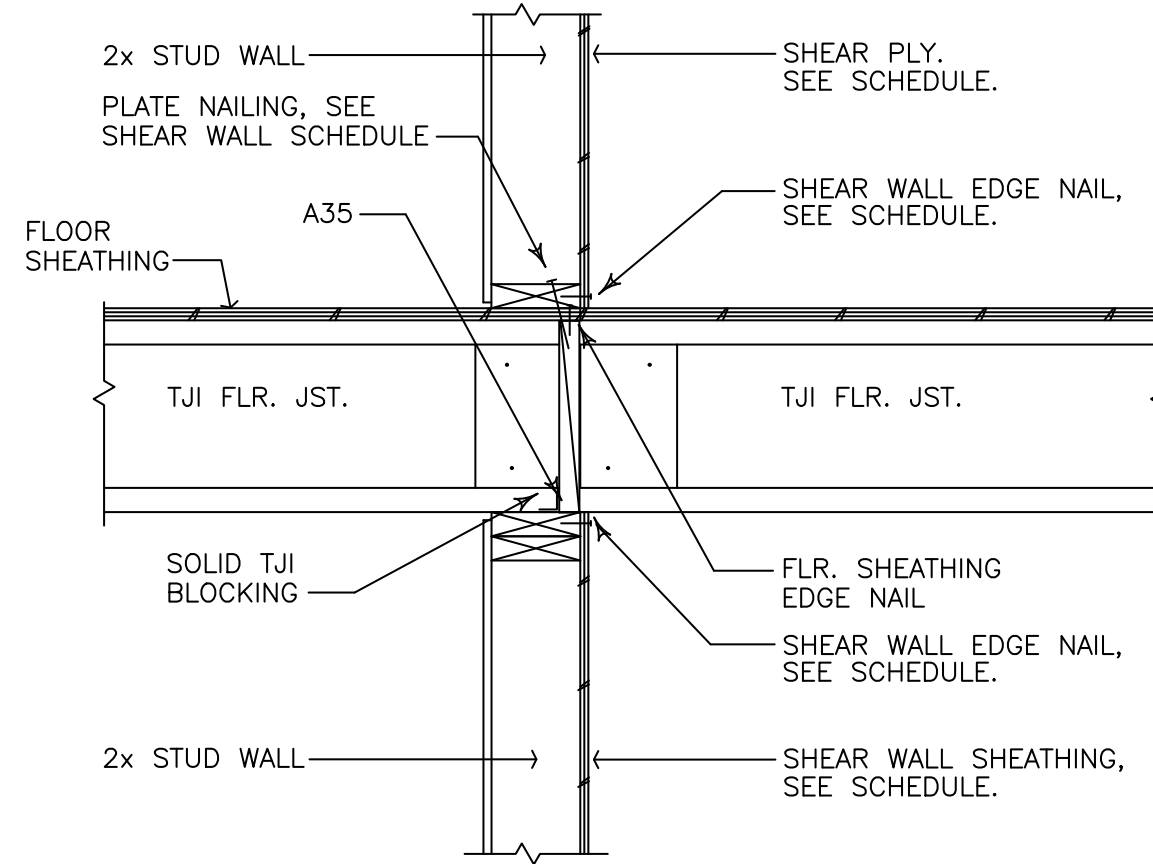
**5 SECOND FLOOR AT EXT. WALL**  
1"=1'-0"



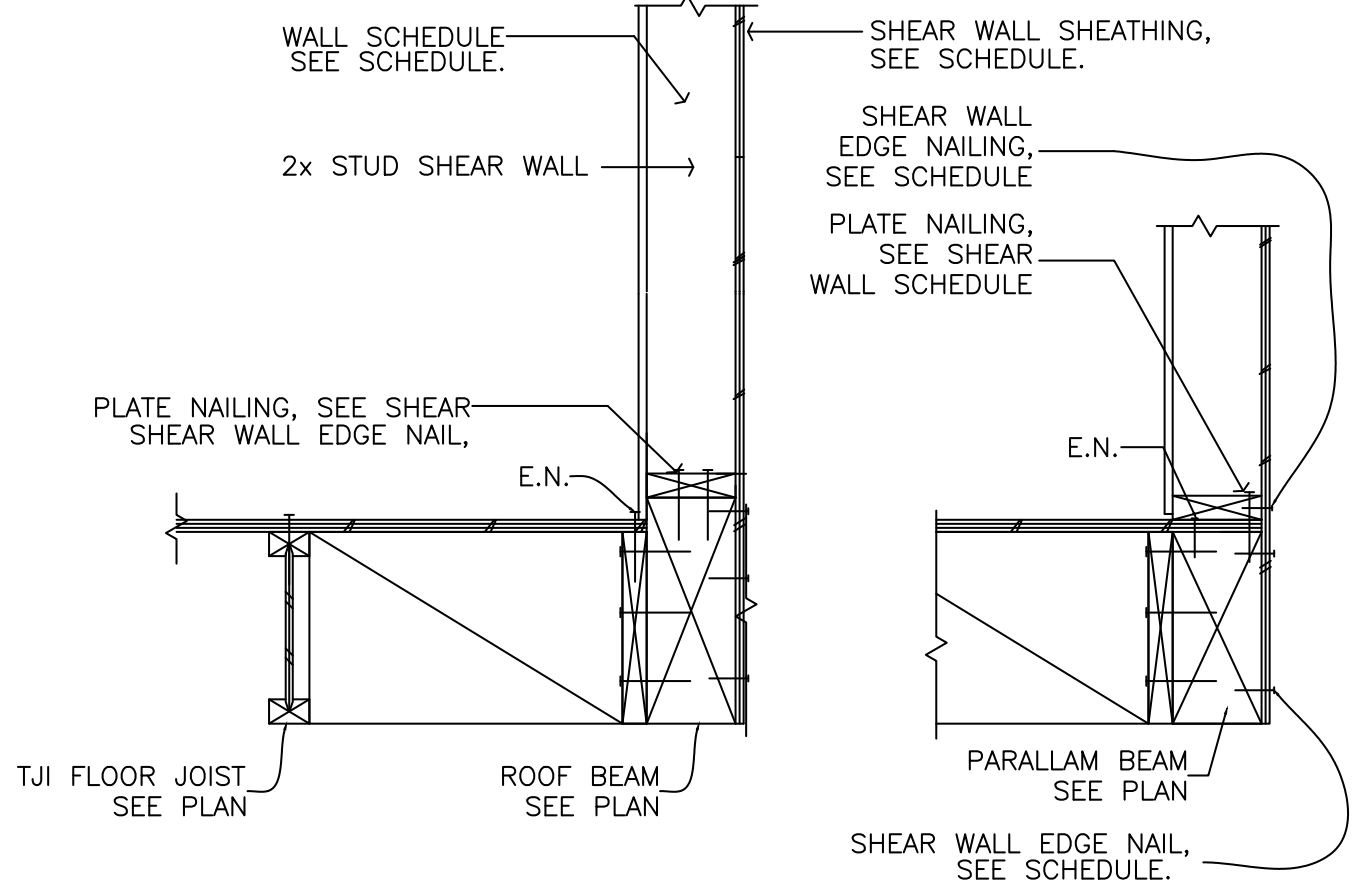
**2 FLOOR AT BEAMS**  
1"=1'-0"



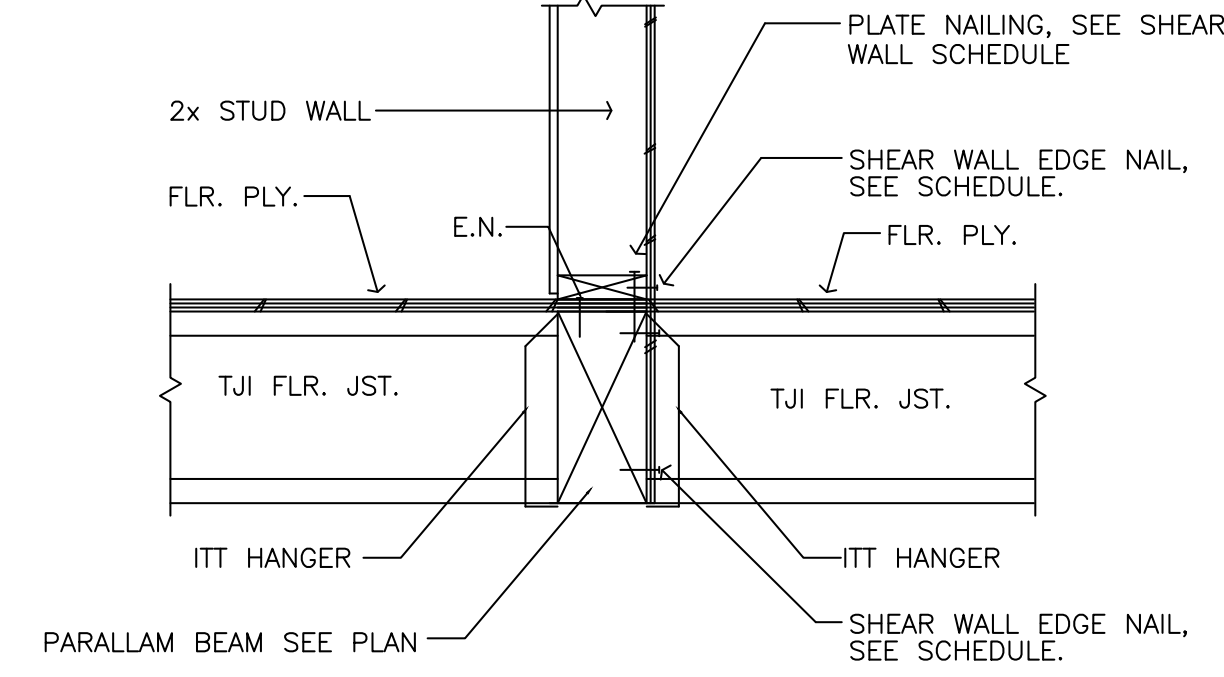
**6 FLOOR AT INT. WALL**  
1"=1'-0"



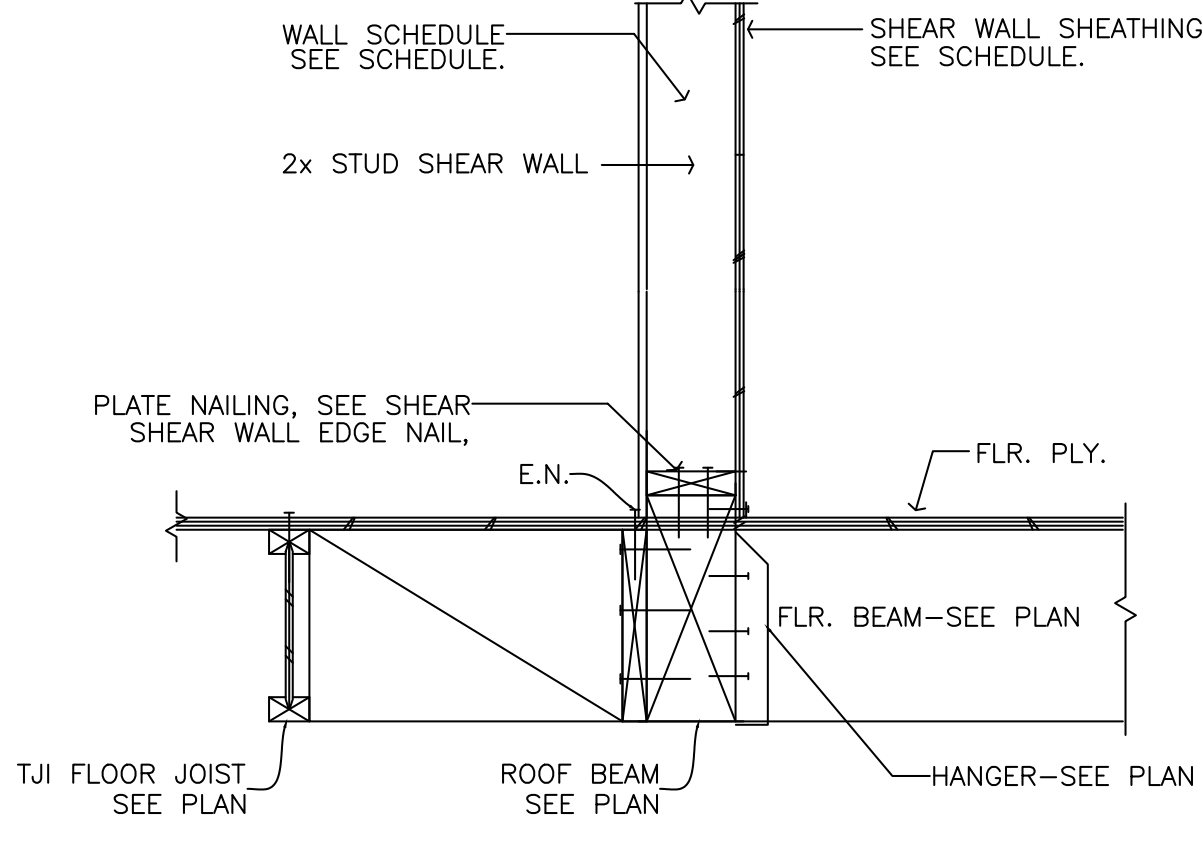
**3 FLOOR BEAM @ EXTERIOR WALL**  
1"=1'-0"



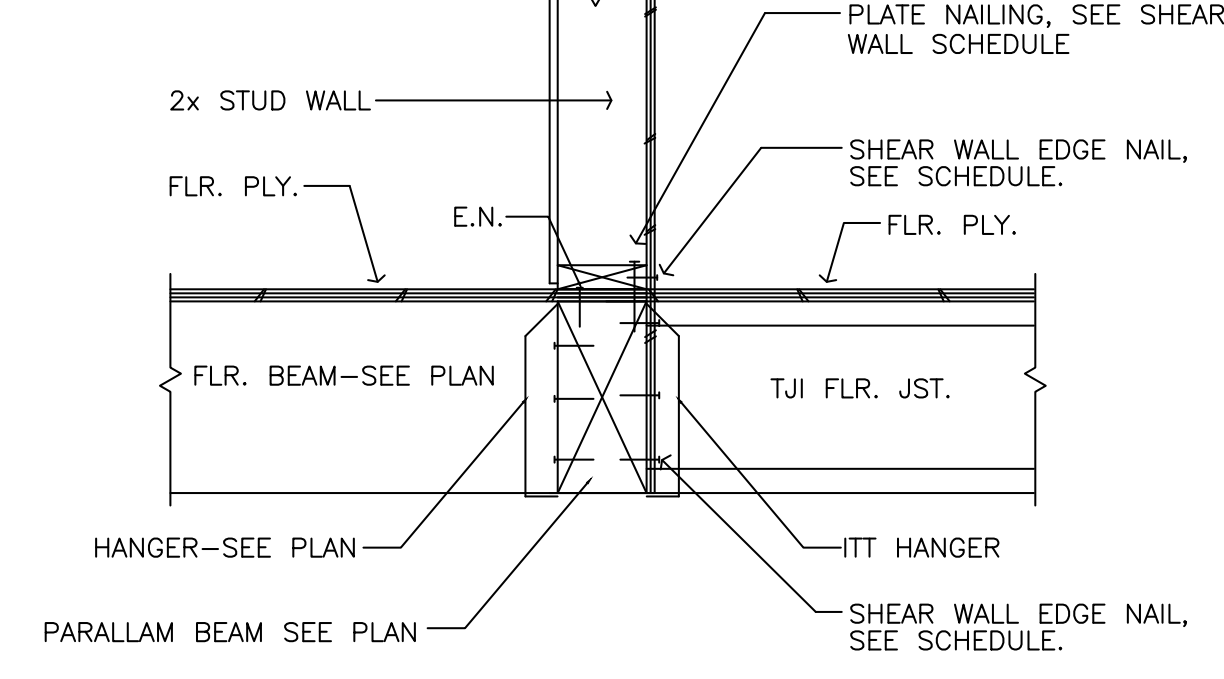
**7 FLOOR AT BEAM**  
1"=1'-0"



**4 FLOOR AT BEAM**  
1"=1'-0"



**8 FLOOR AT BEAM**  
1"=1'-0"

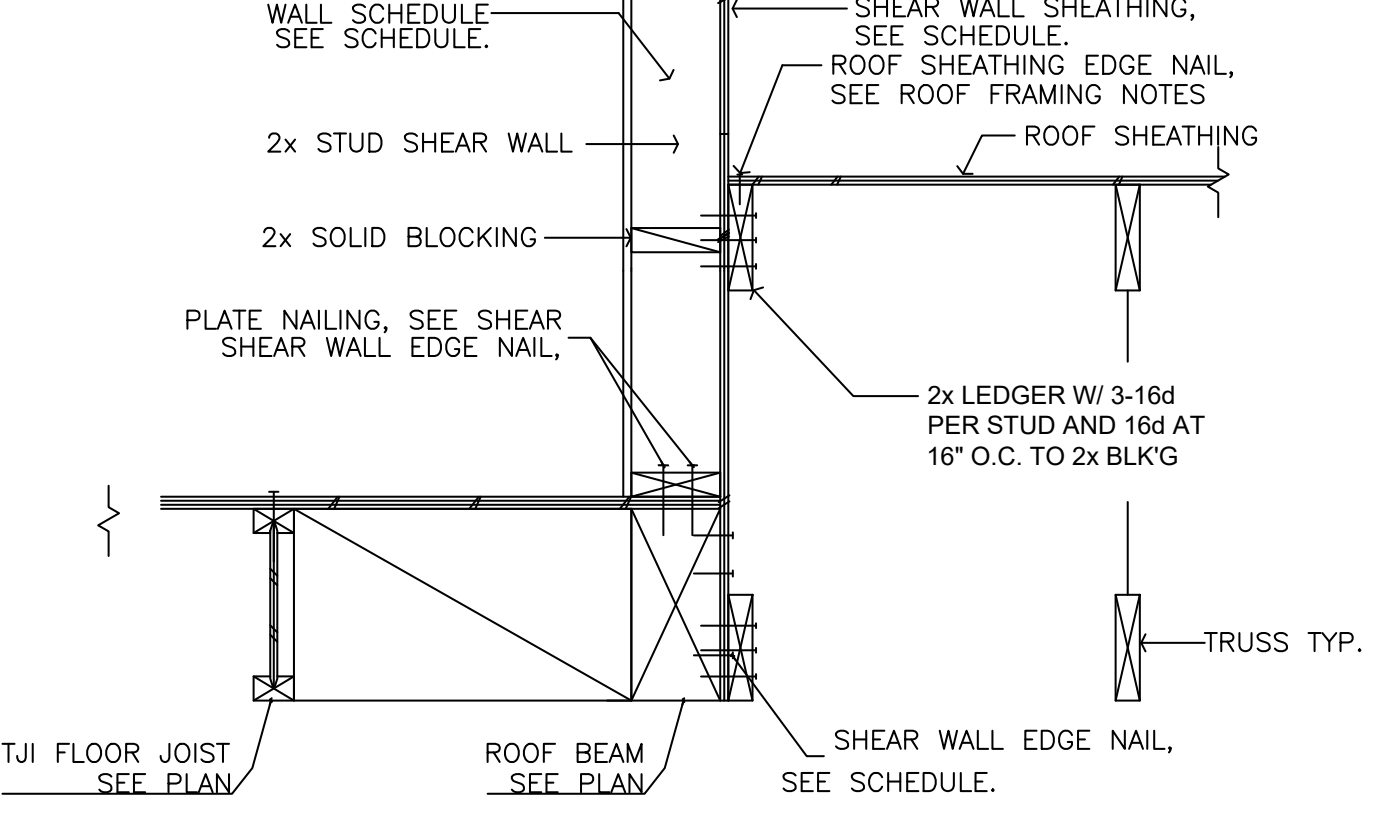


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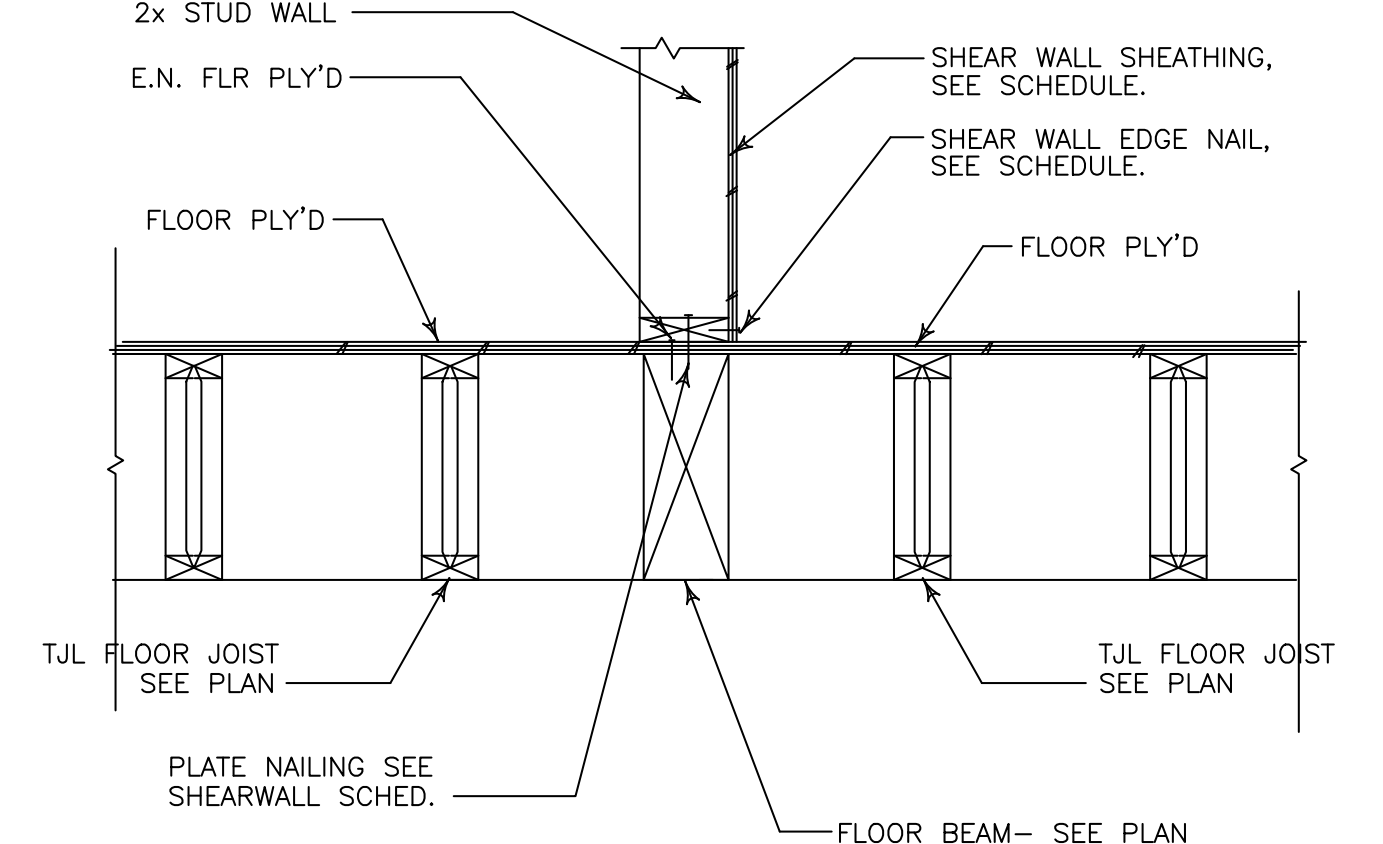
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3

**6 LEDGER AT EXTERIOR WALL**  
1"=1'-0"

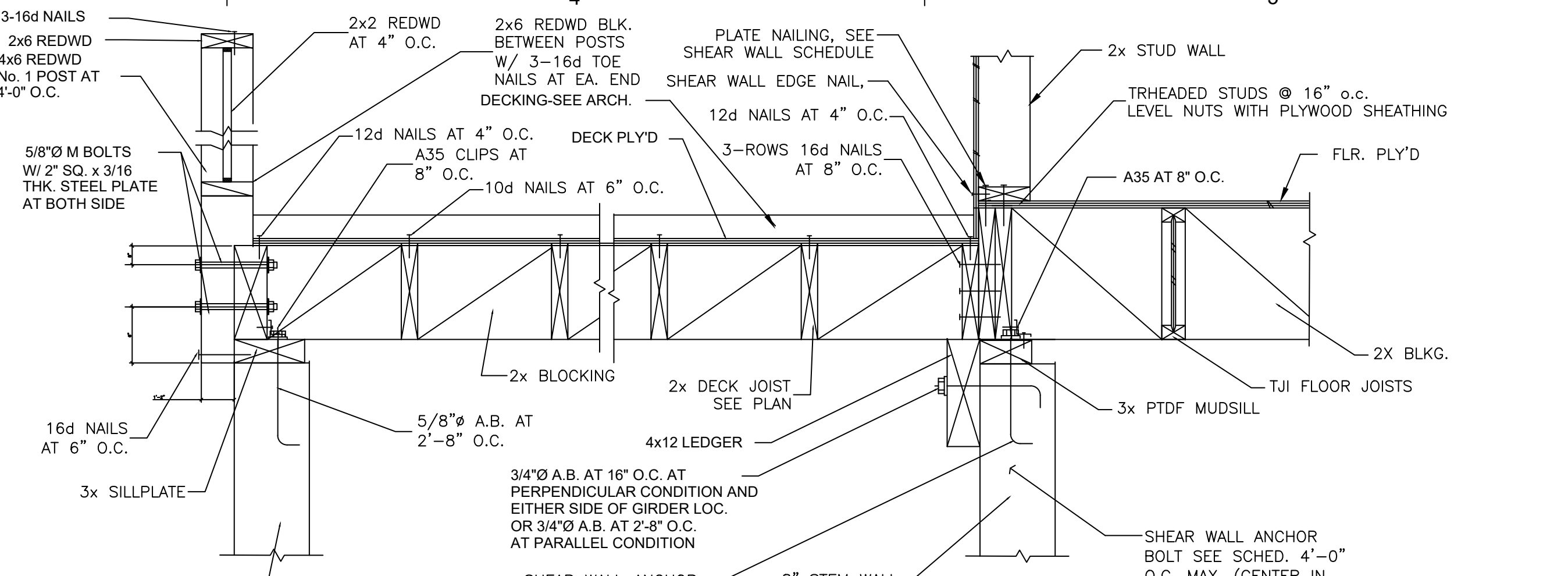


**8 CONN. OF FLR JOISTS AND FLR BM.**  
1"=1'-0"

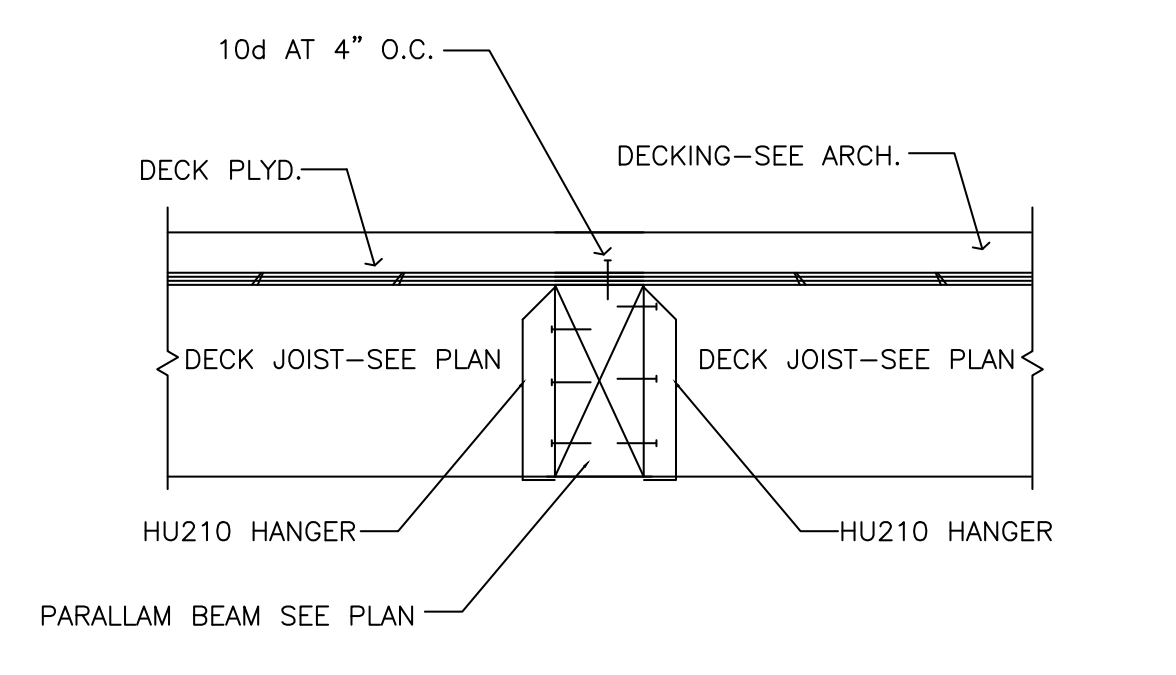


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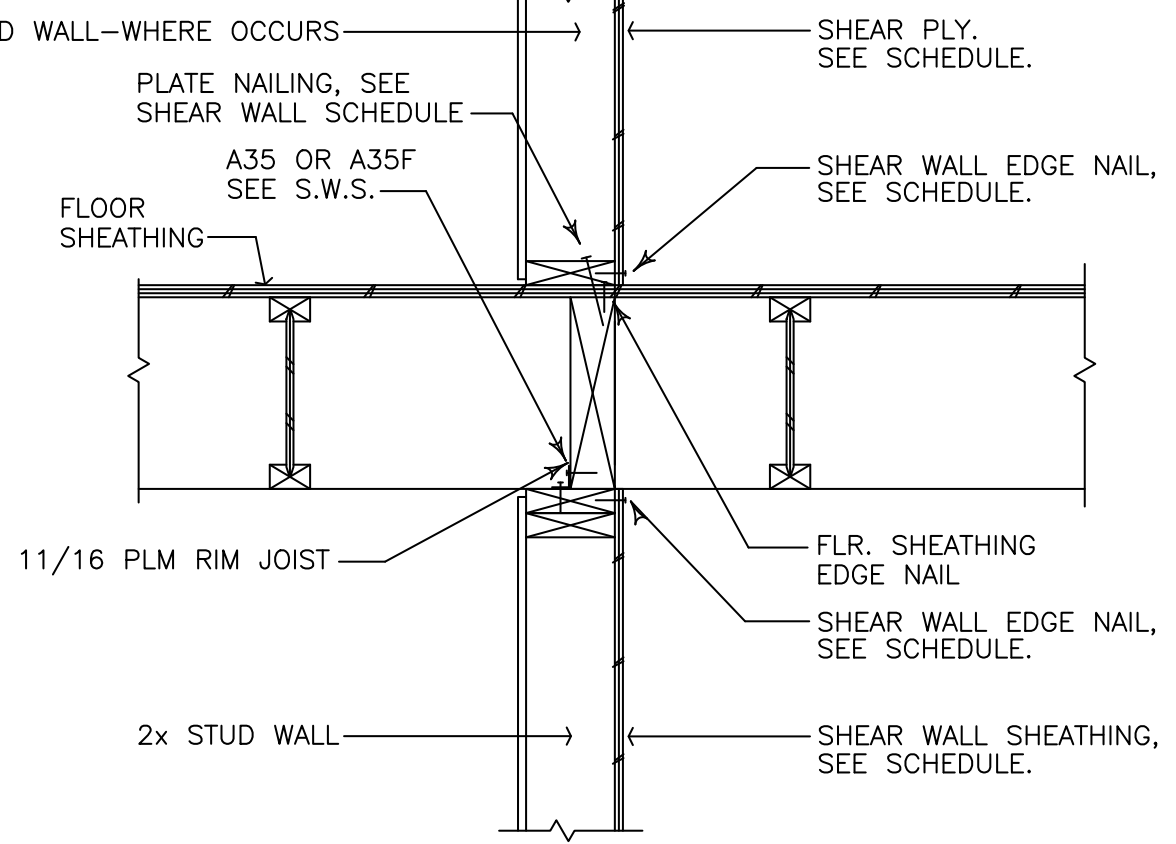
**9 DECK**  
1"=1'-0"



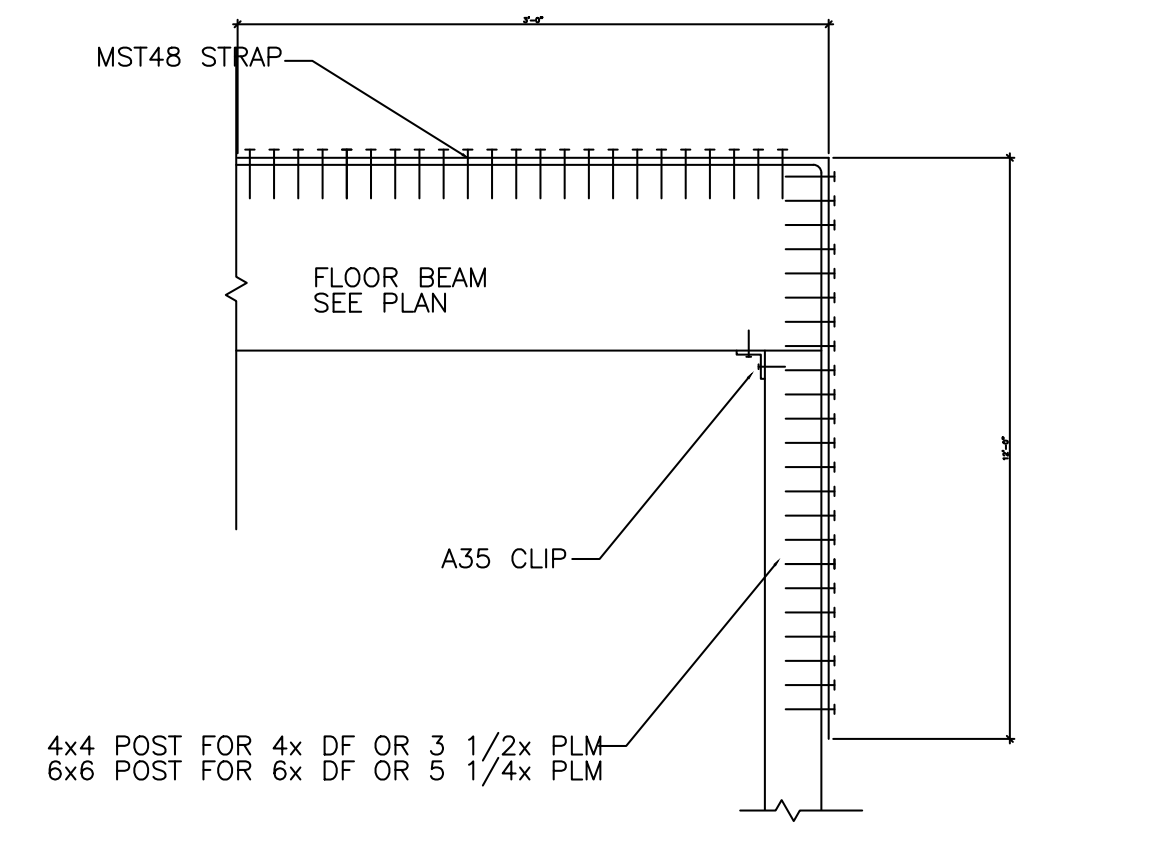
**10 DECK JOIST AT BEAM**  
1"=1'-0"



**11 FLOOR AT INT. WALL**  
1"=1'-0"



**12 CONN. OF FLOOR BEAM TO POST**  
1"=1'-0"



5

**PROPOSED REMODEL FOR  
CHESTER HOWE  
5606 FRIARS RD # 306,  
SAN DIEGO, CA 92110**

**STRUCTURAL**

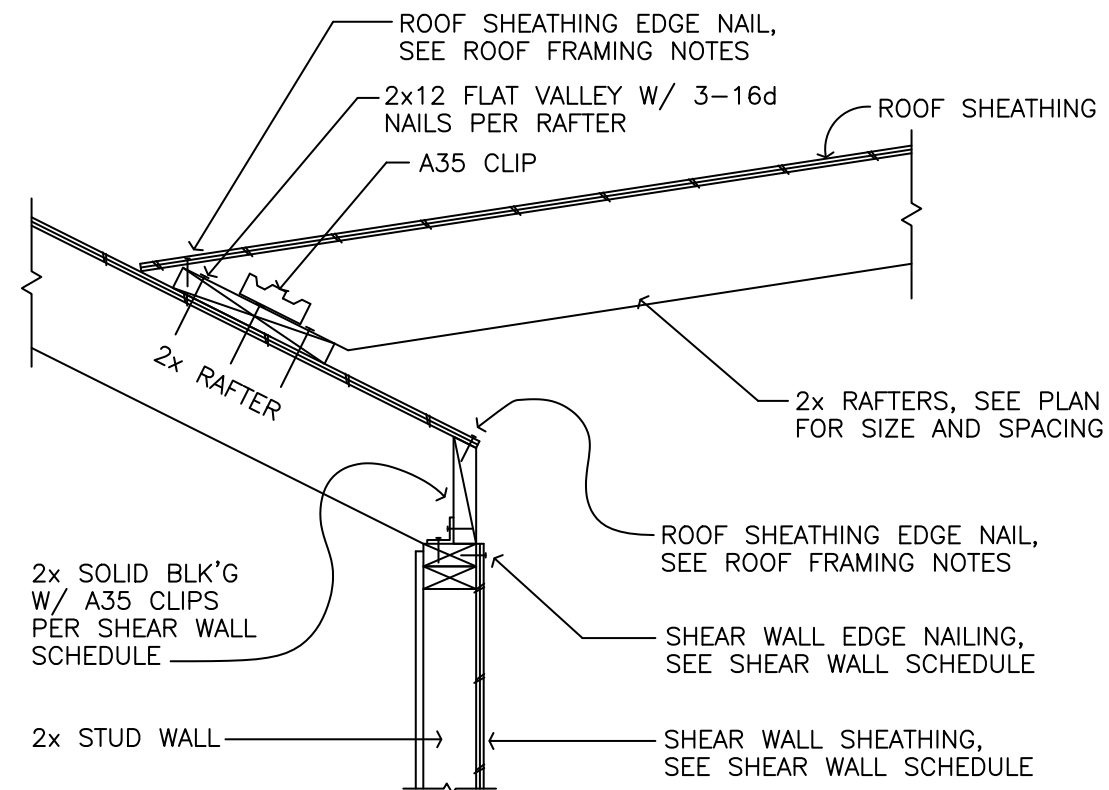
NO.	REVISION/ISSUE	DATE
1	CLIENT REVIEW	6/21/2023
2	APR.	
3	PLAN CHECK	
4	CORRECTIONS	
5	PERMIT	

**ADVANCED DEVELOPMENT**  
RESIDENTIAL COMMERCIAL INDUSTRIAL

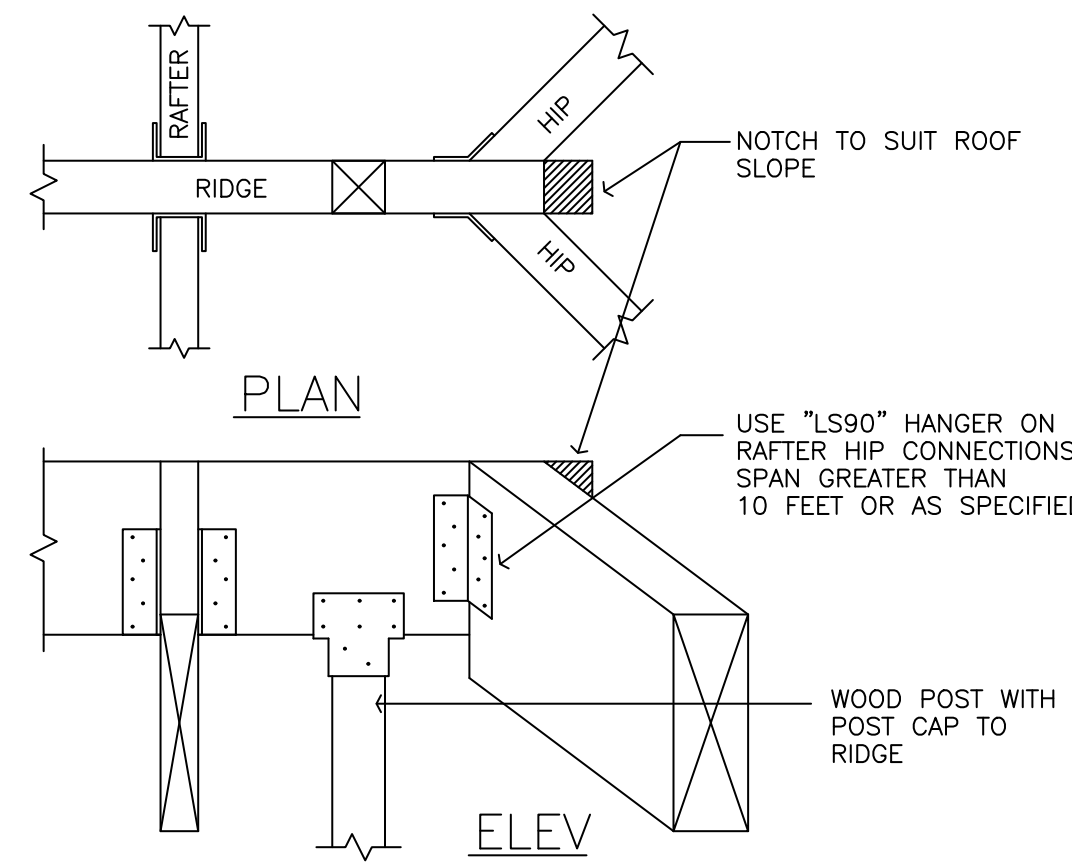
7877 BIRARD AVE SUITE 106  
LA JOLLA, CA 92037  
TEL: 858-592-9999  
EMAIL: INFO@ADVANCEDDEVELOPMENT.NET  
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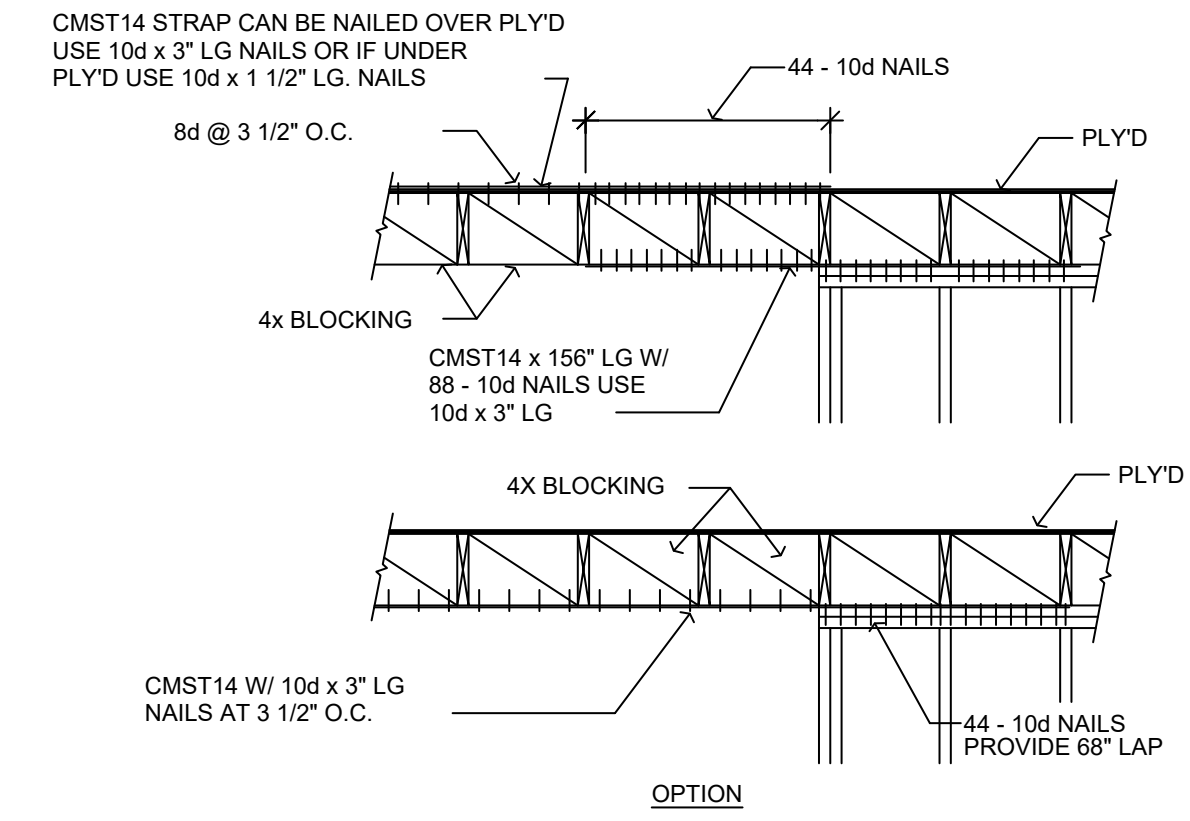
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Date	06/2023		
Scale			



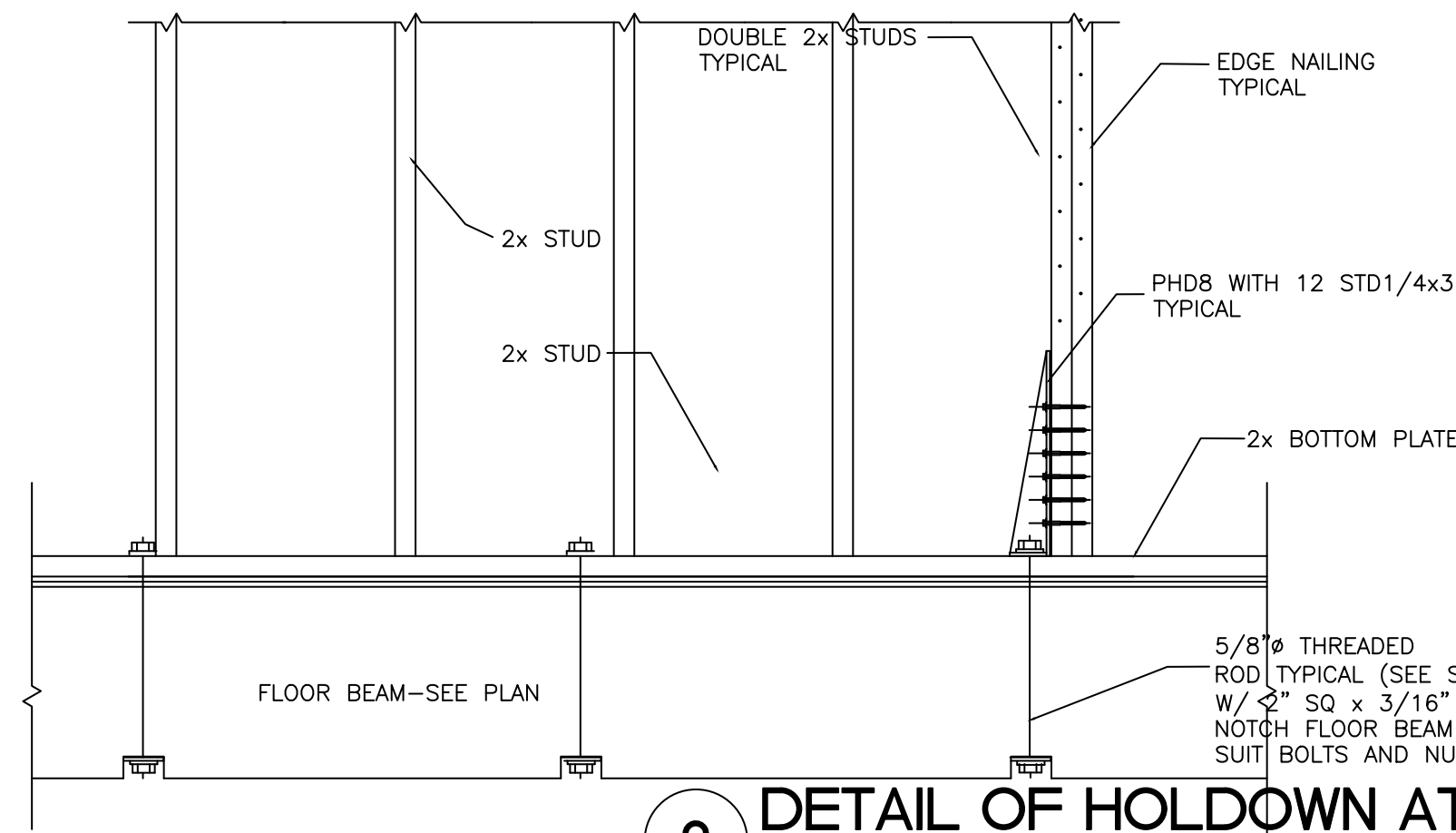
**1 CALIFORNIA FRAMING**  
1"=1'-0"



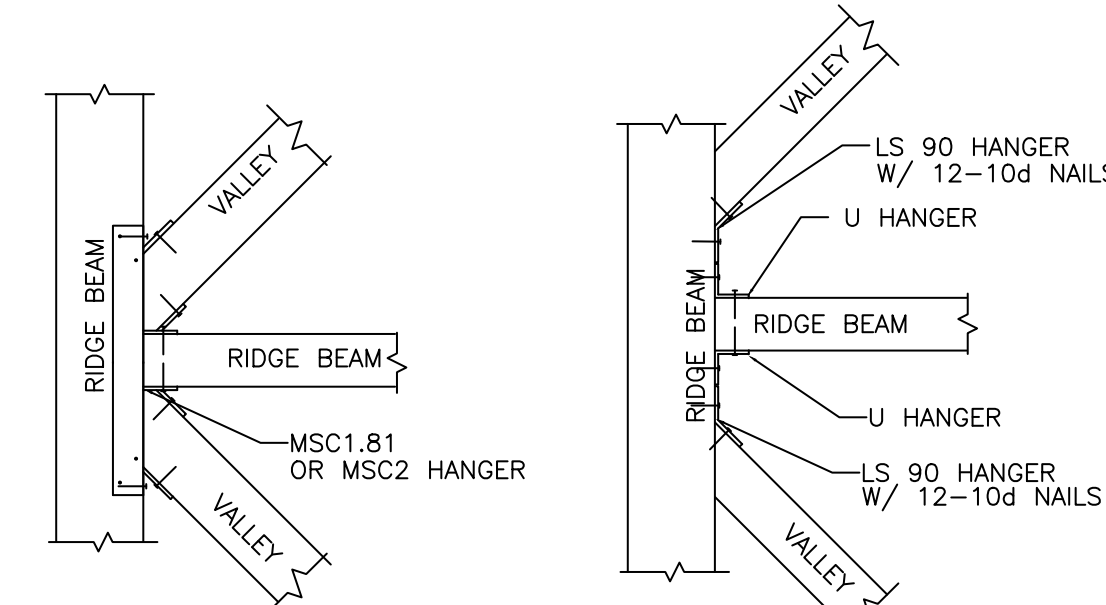
**9 CONN. OF RIDGE TO HIPS**  
1"=1'-0"



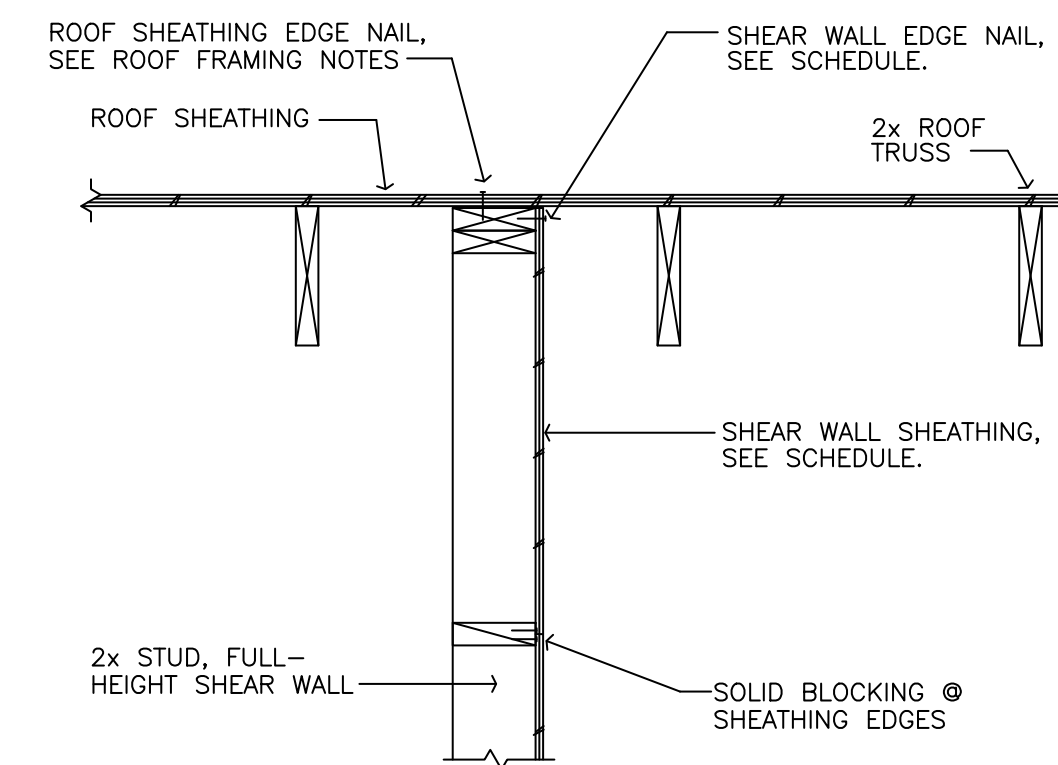
**13 CMST14 DRAG TIE STRAP**  
1/2"=1'-0"



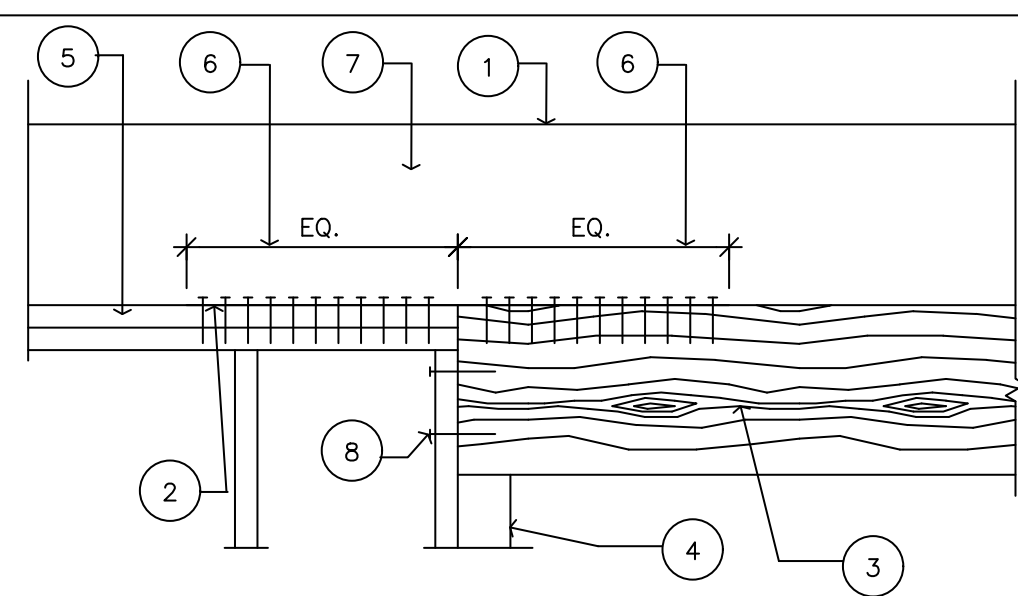
**2 DETAIL OF HOLDOWN AT BEAM**  
1"=1'-0"



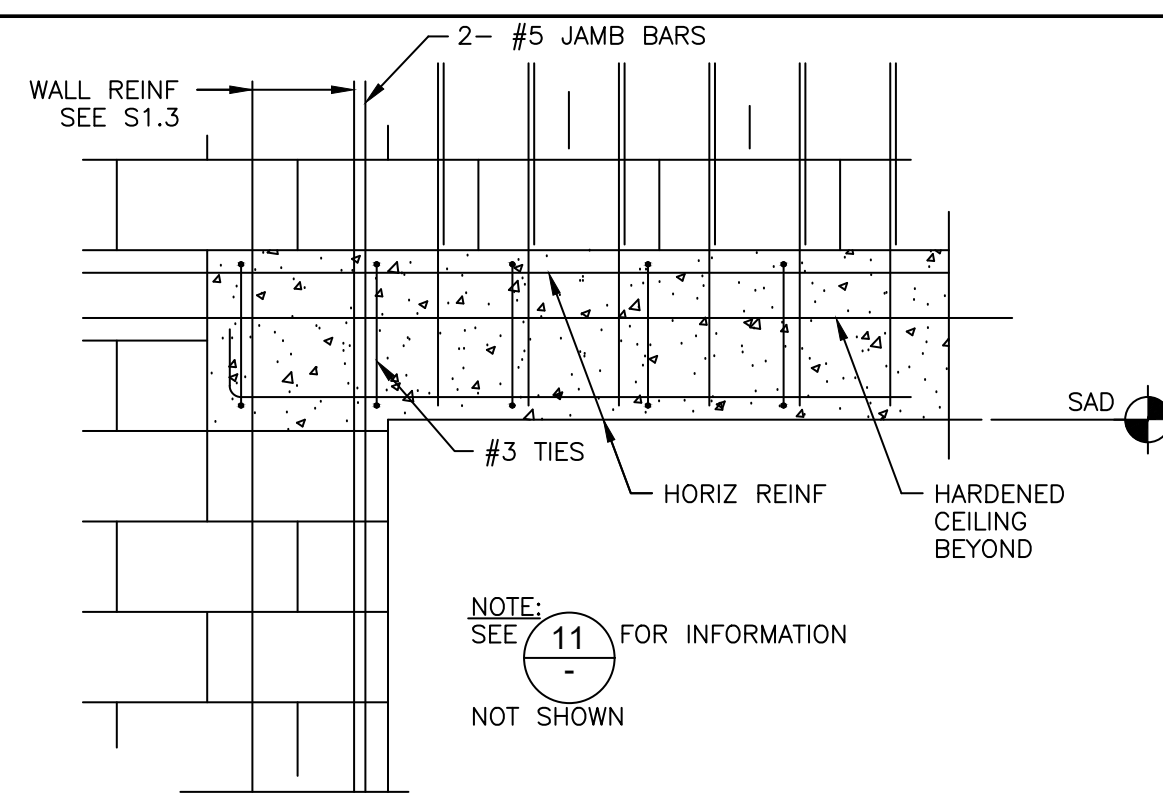
**10 CONN. OF R.B.'S AND V.B.'S AT ROOF**  
1"=1'-0"



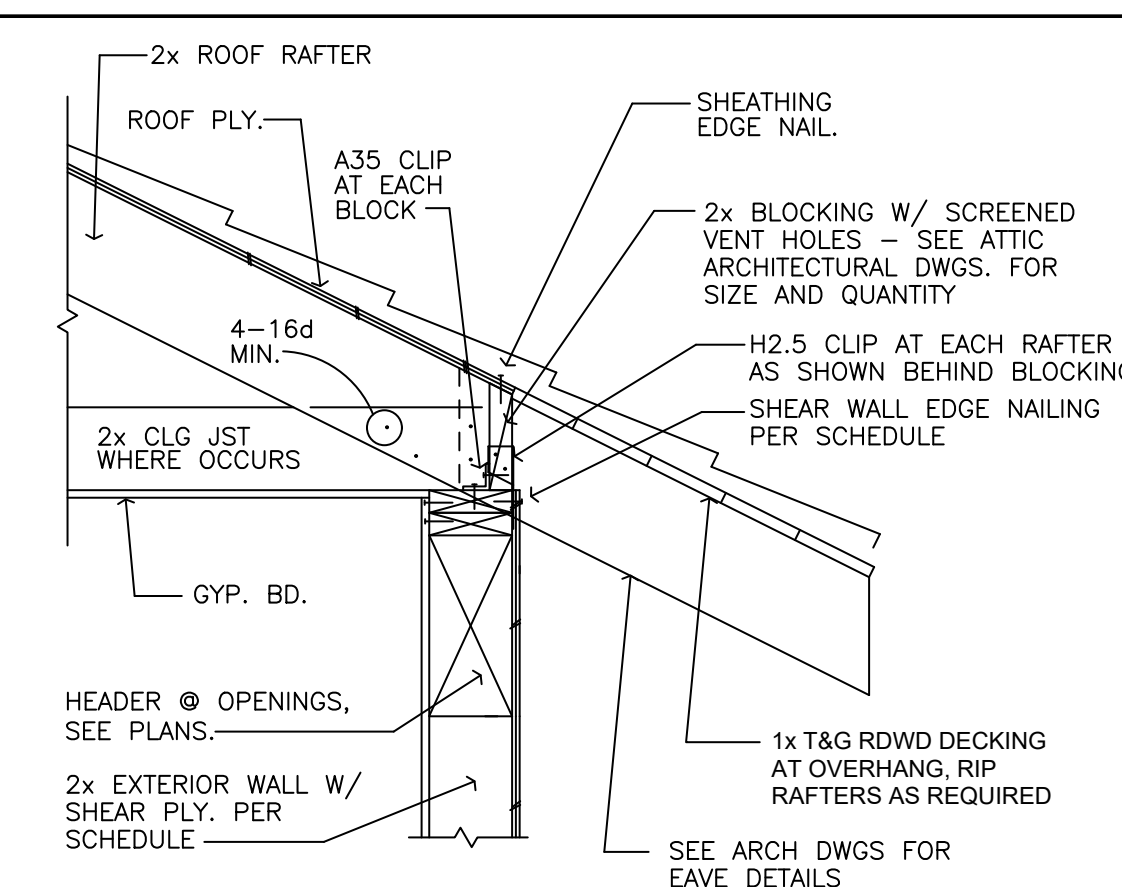
**14 INT. SHEAR WALL AT ROOF**  
1"=1'-0"



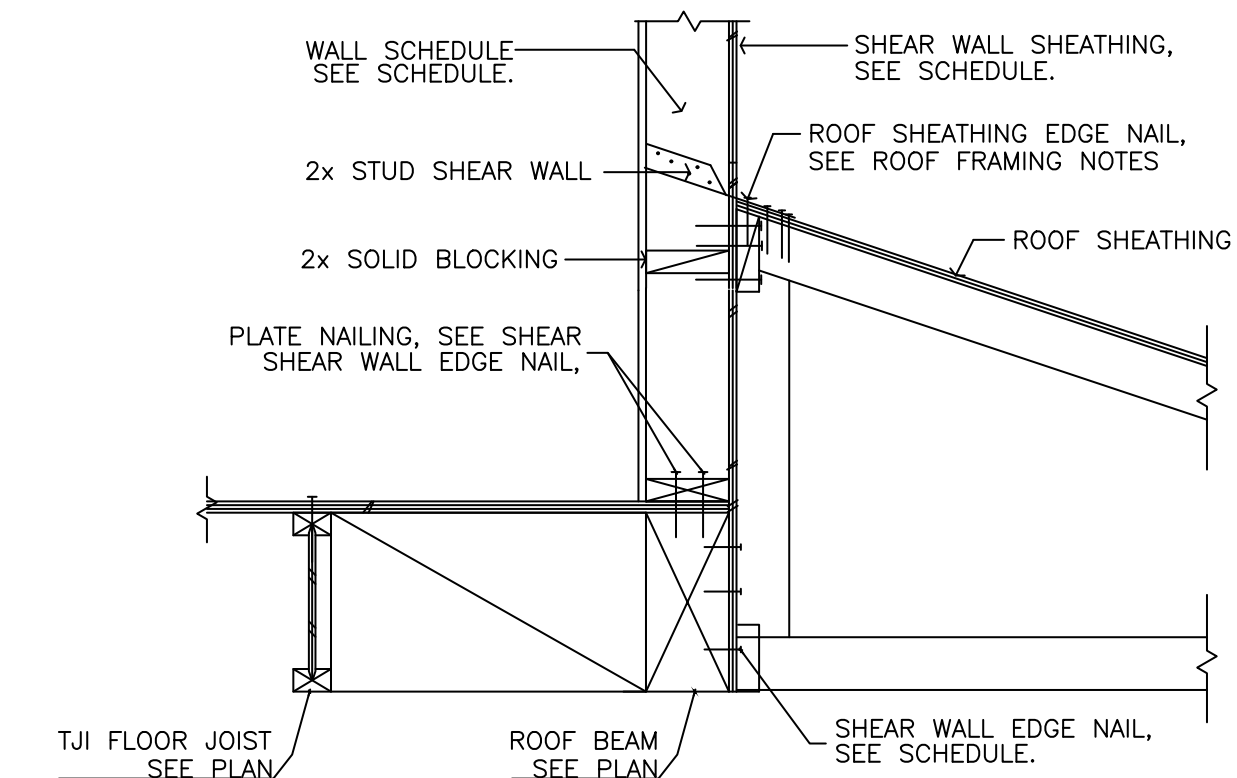
**3 DRAG DETAIL**  
1"=1'-0"



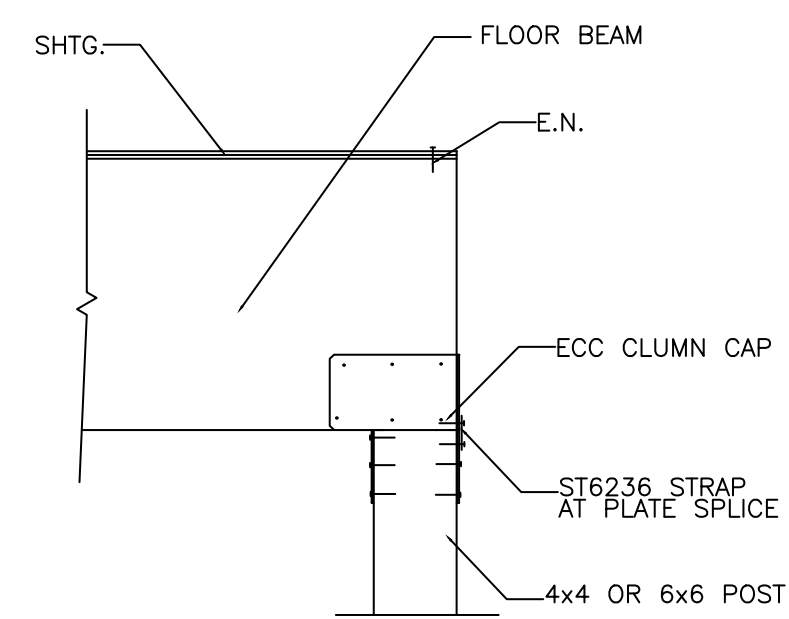
**7 DETAIL**  
1"=1'-0"



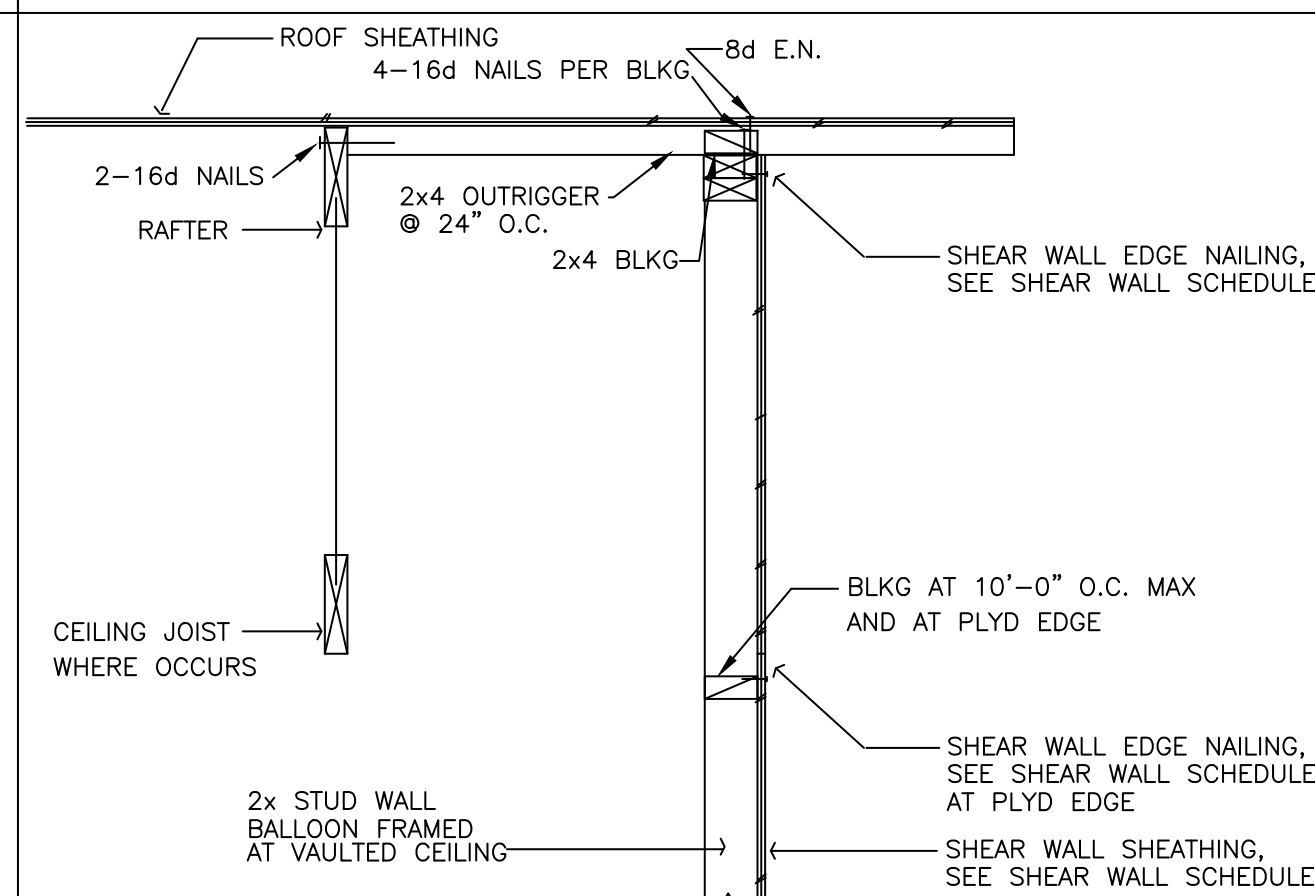
**11 TYPICAL EAVES**  
1"=1'-0"



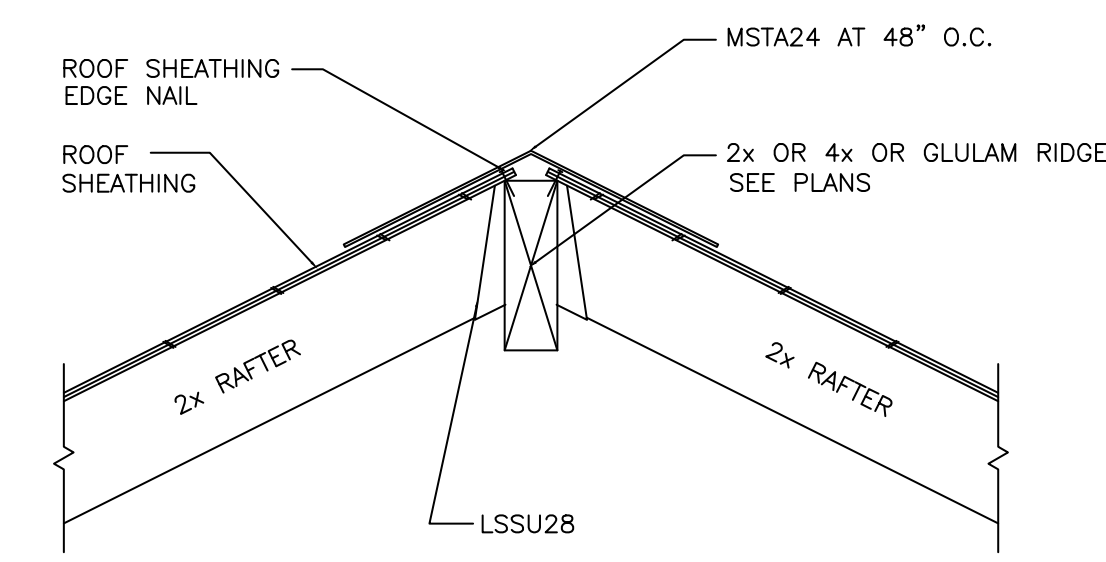
**15 LEDGER AT EXTERIOR WALL**  
1"=1'-0"



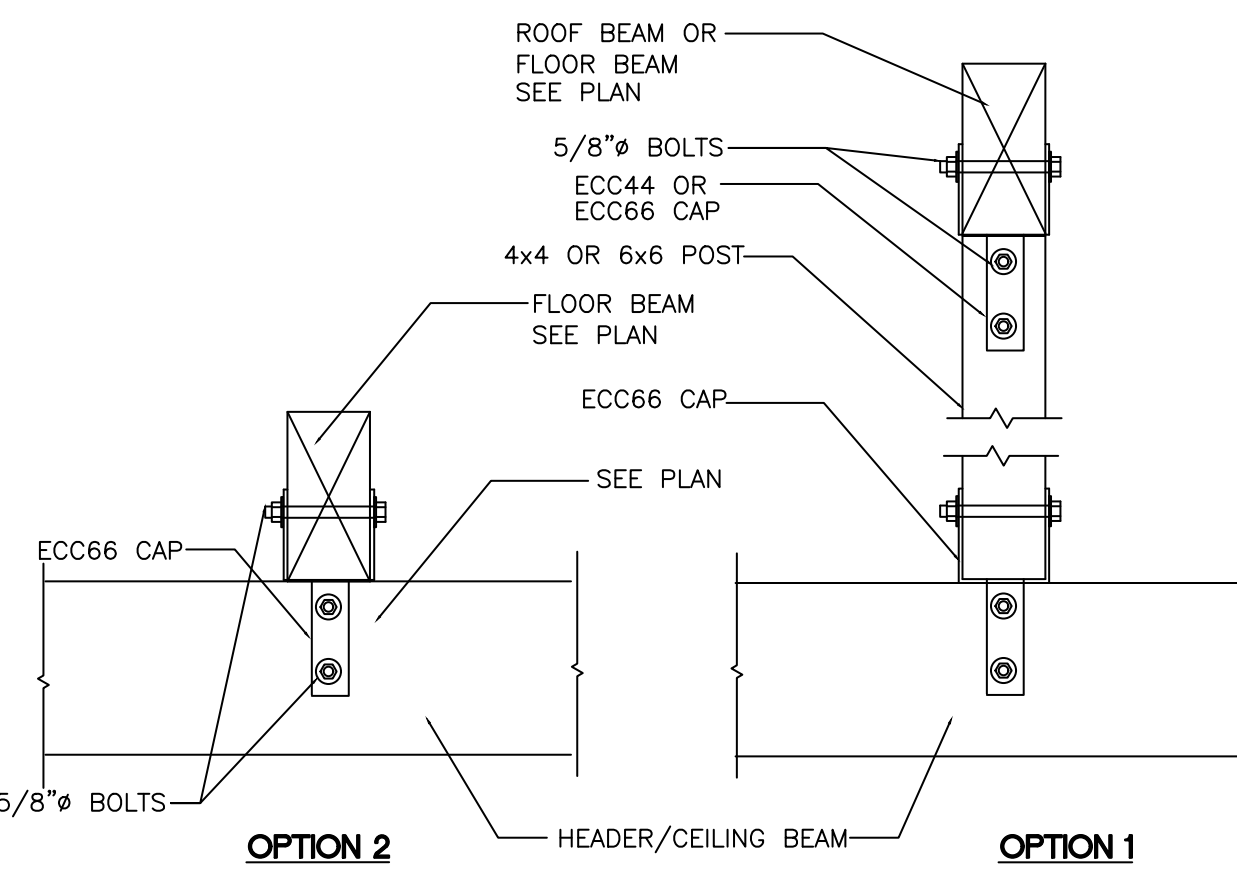
**4 CONN. OF BEAM TO POST**  
1"=1'-0"



**8 RAKE DETAIL**  
1"=1'-0"



**12 TYP. RIDGE BOARD**  
1"=1'-0"



**16 CONN. OF BEAM TO BEAM**  
1"=1'-0"

Project Name and Address  
**PROPOSED REMODEL FOR  
CHESTER HOWE  
5606 FRIARS RD # 306,  
SAN DIEGO, CA 92110**

**STRUCTURAL**

Symbol	Client Review	Date
▲	CLIENT REVIEW	6/21/2023
▲	APR.	
▲	PLAN CHECK	
▲	CORRECTIONS	
▲	PERMIT	
▲		
▲		
No.	Revisions	Date

**ADVANCED DEVELOPMENT**  
RESIDENTIAL COMMERCIAL INDUSTRIAL



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Project	436611538	Sheet	<b>\$1.4</b>
Date	06/2023		
Scale			

# 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE RESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2023)

Y = YES APPLICABLE  
N/A = NOT APPLICABLE  
RESPON. PARTY = RESPONSIBLE PARTY (i.e. ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR, ETC.)

**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.  
The mandatory provision of Section 4.106.4.2 may apply to additions or alterations of existing parking facilities or the addition of new parking facilities serving existing multifamily buildings. See Section 4.106.4.3 for application.  
**Note:** Repairs including, but not limited to, resurfacing, restriping and repairing or maintaining existing lighting fixtures are not considered alterations for the purpose of this section.  
**Note:** On and after January 1, 2014, residential buildings undergoing permitted alterations, additions, or improvements shall replace noncompliant plumbing fixtures with water-conserving plumbing fixtures. Plumbing fixture replacement is required prior to issuance of a certificate of final completion, certificate of occupancy or final permit approval by the local building department. See Civil Code Section 1101.1, et seq., for the definition of a noncompliant plumbing fixture, types of residential buildings affected and 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.  
**Exceptions:**  
1. [HCD] Accessory structures and accessory occupancies serving residential buildings shall comply with Chapter 4 and Appendix A4, as applicable.  
2. [HCD] For purposes of CALGreen, live/work units, complying with Section 419 of the California Building Code, shall not be considered mixed occupancies. Live/work units shall comply with Chapter 4 and Appendix A4, as applicable.  
**DIVISION 4.1 PLANNING AND DESIGN**  
**ABBREVIATION DEFINITIONS:**  
HCD Department of Housing and Community Development  
BSC California Building Standards Commission  
DSA-SS Division of the State Architect, Structural Safety  
OSHPD Office of Statewide Health Planning and Development  
LR Low Rise  
HR High Rise  
AA Additions and Alterations  
N New  
**CHAPTER 4 RESIDENTIAL MANDATORY MEASURES**  
**SECTION 4.102 DEFINITIONS**  
**4.102.1 DEFINITIONS**  
The following terms are defined in Chapter 2 (and are included here for reference)  
**FRENCH DRAIN.** A trench, hole or other depressed area loosely filled with rock, gravel, fragments of brick or similar porous material used to collect or channel drainage or runoff water.  
**WATTLE.** Wattles are used to reduce sediment in runoff. Wattles are often constructed of natural plant materials such as hay, straw or similar material shaped in the form of tubes and placed on a downflow slope. Wattles are also used for perimeter and inlet controls.  
**4.106 SITE DEVELOPMENT**  
**4.106.1 GENERAL.** Preservation and use of available natural resources shall be accomplished through evaluation and careful planning to minimize negative effects on the site and adjacent areas. Preservation of slopes, 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.  
1. Retention basins of sufficient size shall be utilized to retain storm water on the site.  
2. Where storm water is conveyed to a public drainage system, collection point, gutter or similar disposal method, water shall be filtered by use of a barrier system, wattle or other method approved by the enforcing agency.  
3. Compliance with a lawfully enacted storm water management ordinance.  
**Note:** Refer to the State Water Resources Control Board for projects which disturb one acre or more of soil, or are part of a larger common plan of development which in total disturbs one acre or more of soil.  
(Website: [https://www.waterboards.ca.gov/water\\_issues/programs/stormwater/construction.html](https://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.html))  
**4.106.3 GRADING AND PAVING.** Construction plans shall indicate how the site grading or drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:  
1. Swales  
2. Water collection and disposal systems  
3. French drains  
4. Water retention gardens  
5. 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 through 4.106.4.3 to facilitate future installation and use of EV chargers. Electric vehicle supply equipment (EVSE) shall be installed in accordance with the California Electrical Code, Article 625.  
**Exceptions:**  
1. On a case-by-case basis, where the local enforcing agency has determined EV charging and infrastructure are not feasible based upon one or more of the following conditions:  
1.1 Where there is no local utility power supply or the local utility is unable to supply adequate power.  
1.2 Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 4.106.4, may adversely impact the construction cost of the project.  
2. Accessory Dwelling Units (ADU) and Junior Accessory Dwelling Units (JADU) without additional parking facilities.  
**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 EV spaces. The service panel and/or subpanel shall provide capacity to install a 40-ampere 208/240-volt minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overcurrent protective device.  
**Exception:** A raceway is not required if a minimum 40-ampere 208/240-volt dedicated EV branch circuit is installed in close proximity to the proposed location of an EV charger at the time of original construction in accordance with the California Electrical Code.  
**4.106.4.1.1 Identification.** The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE".

**4.106.4.2 New multifamily dwellings, hotels and motels and new residential parking facilities.** When parking is provided for new multifamily dwellings, hotels and motels shall meet the requirements of Sections 4.106.4.2.1 and 4.106.4.2.2. Calculations for spaces shall be rounded up to the nearest whole number. A parking space served by electric vehicle supply equipment or designed as a future EV charging space shall count as at least one standard automobile parking space only for the purpose of complying with any applicable minimum parking space requirements established by a local jurisdiction. See Vehicle Code Section 22511.2 for further details.  
**4.106.4.2.1 Multifamily development projects with less than 20 dwelling units; and hotels and motels with less than 20 sleeping units or guest rooms.** The number of dwelling units, sleeping units or guest rooms shall be based on all buildings on a project site subject to this section.  
**1.EV Capable.** Ten (10) percent of the total number of parking spaces on a building site, provided for all types of parking facilities, shall be electric vehicle charging spaces (EV spaces) capable of supporting future Level 2 EVSE. Electrical load calculations shall demonstrate 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 a minimum of 40 ampere.  
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.  
**Exceptions:**  
1. When EV chargers (Level 2 EVSE) are installed in a number equal to or greater than the required number of EV capable spaces.  
2. When EV chargers (Level 2 EVSE) are installed in a number less than the required number of EV capable spaces, the number of EV capable spaces required may be reduced by a number equal to the number of EV chargers installed.  
**Notes:**  
a. Construction documents are intended to demonstrate the project's capability and capacity for facilitating future EV charging.  
b. There is no requirement for EV spaces to be constructed or available until receptacles for EV charging or EV chargers are installed for use.  
**2.EV Ready.** Twenty-five (25) percent of the total number of parking spaces shall be equipped with low power Level 2 EV charging receptacles. For multifamily parking facilities, no more than one receptacle is required per dwelling unit when more than one parking space is provided for use by a single dwelling unit.  
**Exception:** Areas of parking facilities served by parking lifts.  
**4.106.4.2.2 Multifamily development projects with 20 or more dwelling units, hotels and motels with 20 or more sleeping units or guest rooms.** The number of dwelling units, sleeping units or guest rooms shall be based on all buildings on a project site subject to this section.  
**1.EV Capable.** Ten (10) percent of the total number of parking spaces on a building site, provided for all types of parking facilities, shall be electric vehicle charging spaces (EV spaces) capable of supporting future Level 2 EVSE. Electrical load calculations shall demonstrate 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 a minimum of 40 ampere.  
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.  
**Exception:** When EV chargers (Level 2 EVSE) are installed in a number greater than five (5) percent of parking spaces required by Section 4.106.4.2.2, Item 3, the number of EV capable spaces required may be reduced by a number equal to the number of EV chargers installed over the five (5) percent required.  
**Notes:**  
a. Construction documents shall show locations of future EV spaces.  
b. There is no requirement for EV spaces to be constructed or available until receptacles for EV charging or EV chargers are installed for use.  
**2.EV Ready.** Twenty-five (25) percent of the total number of parking spaces shall be equipped with low power Level 2 EV charging receptacles. For multifamily parking facilities, no more than one receptacle is required per dwelling unit when more than one parking space is provided for use by a single dwelling unit.  
**Exception:** Areas of parking facilities served by parking lifts.  
**3.EV Chargers.** Five (5) percent of the total number of parking spaces shall be equipped with Level 2 EVSE. Where common use parking is provided, at least one EV charger shall be located in the common use parking area and shall be available for use by all residents or guests.  
When low power Level 2 EV charging receptacles or Level 2 EVSE are installed beyond the minimum required, an automatic load management system (ALMS) may be used to reduce the maximum required electrical capacity to each space served by the ALMS. The electrical system and any on-site distribution transformers shall have sufficient capacity to deliver at least 3.3 kW simultaneously to each EV charging station (EVCS) served by the ALMS. The branch circuit shall have a minimum capacity of 40 ampere, and installed EVSE shall have a capacity of not less than 30 ampere. ALMS shall not be used to reduce the minimum required electrical capacity to the required EV capable spaces.  
**4.106.4.2.2.1 Electric vehicle charging stations (EVCS).** Electric vehicle charging stations required by Section 4.106.4.2.2, Item 3, shall comply with Section 4.106.4.2.2.1.  
**Exception:** Electric vehicle charging stations serving public accommodations, public housing, motels and hotels shall not be required to comply with this section. See California Building Code, Chapter 11B, for applicable requirements.  
**4.106.4.2.2.1.1 Location.** EVCS shall comply with at least one of the following options:  
1. The charging space shall be located adjacent to an accessible parking space meeting the requirements of the California Building Code, Chapter 11A, to allow use of the EV charger from the accessible parking space.  
2. The charging space shall be located on an accessible route, as defined in the California Building Code, Chapter 2, to the building.  
**Exception:** Electric vehicle charging stations designed and constructed in compliance with the California Building Code, Chapter 11B, are not required to comply with Section 4.106.4.2.2.1.1 and Section 4.106.4.2.2.1.2, Item 3.  
**4.106.4.2.2.1.2 Electric vehicle charging stations (EVCS) dimensions.** The charging spaces shall be designed to comply with the following:  
1. The minimum length of each EV space shall be 18 feet (5486 mm).  
2. The minimum width of each EV space shall be 9 feet (2743 mm).  
3. One in every 25 charging spaces, but not less than one, shall also 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).  
a. Surface slope for this EV space and the aisle shall not exceed 1 unit vertical in 48 units horizontal (2.083 percent slope) in any direction.  
**4.106.4.2.2.1.3 Accessible EV spaces.** In addition to the requirements in Sections 4.106.4.2.2.1.1 and 4.106.4.2.2.1.2, all EVSE, when installed, shall comply with the accessibility provisions for EV chargers in the California Building Code, Chapter 11B, EV ready spaces and EVCS in multifamily developments shall comply with California Building Code, Chapter 11A, Section 1109A.  
**4.106.4.2.3 EV space requirements.**  
1. 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 location or the proposed location of the EV space. Construction documents shall identify the raceway termination point, receptacle or charger location, as applicable. The service panel and/or subpanel shall have a 40-ampere minimum dedicated branch circuit, including branch circuit overcurrent protective device installed, or space(s) reserved to permit installation of a branch circuit overcurrent protective device.  
**Exception:** A raceway is not required if a minimum 40-ampere 208/240-volt dedicated EV branch circuit is installed in close proximity to the location or the proposed location of the EV space, at the time of original construction in accordance with the California Electrical Code.  
2. Multiple EV spaces required. Construction documents shall indicate the raceway termination point and the location of installed or future EV spaces, receptacles or EV chargers. Construction documents shall also provide information on amperage of installed or future receptacles or EVSE, raceway method(s), wiring schematics and electrical load calculations. Plan design shall be based upon a 40-ampere minimum branch circuit. Required raceways and related components that are planned to be installed underground, enclosed, inaccessible or in concealed areas and spaces shall be installed at the time of original construction.

**Exception:** A raceway is not required if a minimum 40-ampere 208/240-volt dedicated EV branch circuit is installed in close proximity to the location or the proposed location of the EV space at the time of original construction in accordance with the California Electrical Code.  
**4.106.4.2.4 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.  
**4.106.4.2.5 Electric Vehicle Ready Space Signage.** Electric vehicle ready spaces shall be identified by signage or pavement markings, in compliance with Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its successor(s).  
**4.106.4.3 Electric vehicle charging for additions and alterations of parking facilities serving existing multifamily buildings.** When new parking facilities are added, or electrical systems or lighting of existing parking facilities are added or altered and the work requires a building permit, ten (10) percent of the total number of parking spaces added or altered shall be electric vehicle charging spaces (EV spaces) capable of supporting future Level 2 EVSE.  
**Notes:**  
1. Construction documents are intended to demonstrate the project's capability and capacity for facilitating future EV charging.  
2. There is no requirement for EV spaces to be constructed or available until EV chargers are installed for use.  
**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 sections 4.303.1.1, 4.303.1.2, 4.303.1.3, and 4.303.1.4.  
**Note:** All noncompliant plumbing fixtures in any residential real property shall be replaced with water-conserving plumbing fixtures. Plumbing fixture replacement is required prior to issuance of a certificate of final completion, certificate of occupancy, or final permit approval by the local building department. See Civil Code Section 1101.1, et seq., for the definition of a noncompliant plumbing fixture, types of residential buildings affected and other important enactment dates.  
**4.303.1.1 Water Closets.** The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-type Toilets.  
**Note:** The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.  
**4.303.1.2 Urinals.** The effective flush volume of wall mounted urinals shall not exceed 0.125 gallons per flush. The effective flush volume of all other urinals shall not exceed 0.5 gallons per flush.  
**4.303.1.3 Showerheads.**  
**4.303.1.3.1 Single Showerhead.** Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA 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 1.8 gallons per minute at 80 psi, or the shower shall be designed to only allow one shower outlet to be in operation at a time.  
**Note:** A hand-held shower shall be considered a showerhead.  
**4.303.1.4 Faucets.**  
**4.303.1.4.1 Residential Lavatory Faucets.** The maximum flow rate of residential lavatory faucets shall not exceed 1.2 gallons per minute at 60 psi. The minimum flow rate of residential lavatory faucets shall not be less than 0.8 gallons per minute at 60 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 0.2 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.  
**4.303.1.4.5 Pre-rinse spray valves.** When installed, shall meet the requirements in the California Code of Regulations, Title 20 (Appliance Efficiency Regulations), Sections 1605.1 (h)(4) Table H-2, Section 1605.3 (h)(4)(A), and Section 1607 (d)(7) and be equipped with an integral automatic shut-off.  
**FOR REFERENCE ONLY:** The following table and code section have been reprinted from the California Code of Regulations, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) and Section 1605.3 (h)(4)(A).  

PRODUCT CLASS [spray force in ounce force (ozf)]	MAXIMUM FLOW RATE (gpm)
Product Class 1 (≤ 5.0 ozf)	1.00
Product Class 2 (> 5.0 ozf and ≤ 8.0 ozf)	1.20
Product Class 3 (> 8.0 ozf)	1.28

Title 20 Section 1605.3 (h)(4)(A): Commercial pre-rinse spray valves manufactured on or after January 1, 2006, shall have a minimum spray force of not less than 4.0 ounces-force (ozf) [113 grams-force (gf)]

**4.303.2 Submeters for multifamily buildings and dwelling units in mixed-used residential/commercial buildings.** Submeters shall be installed to measure water usage of individual rental dwelling units in accordance with the California Plumbing Code.  
**4.303.3 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.  

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

**4.304 OUTDOOR WATER USE**  
**4.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS.** Residential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.  
**NOTES:**  
1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code Regulations, Title 23, Chapter 2.7, Division 2. MWELO and supporting documents, including water budget calculator, are available at: <https://www.water.ca.gov/>  
**DIVISION 4.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY**  
**4.406 ENHANCED DURABILITY AND REDUCED MAINTENANCE**  
**4.406.1 RODENT PROOFING.** Annular spaces around pipes, electric cables, conduits or other openings in sole/bottom plates at exterior walls shall be protected against the passage of rodents by closing such openings with cement mortar, concrete masonry or a similar method acceptable to the enforcing 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:**  
1. Excavated soil and land-clearing debris.  
2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist or are not located reasonably close to the jobsite and diversion facilities where the construction and demolition waste material collected will be taken.  
3. The enforcing agency may make exceptions to the requirements of this section when isolated jobsites are located in areas beyond the haul boundaries of the diversion facility.  
**4.408.2 CONSTRUCTION WASTE MANAGEMENT PLAN.** Submit a construction waste management plan in conformance with Items 1 through 5. The construction waste management plan shall be updated as necessary and shall be available during construction for examination by the enforcing agency.  
1. Identify the construction and demolition waste materials to be diverted from disposal by recycling, reuse on the project or salvage for future use or sale.  
2. Specify if construction and demolition waste materials will be sorted on-site (source separated) or bulk mixed (single stream).  
3. Identify diversion facilities where the construction and demolition waste material collected will be taken.  
4. Identify construction methods employed to reduce the amount of construction and demolition waste generated.  
5. Specify that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.  
**4.408.3 WASTE MANAGEMENT COMPANY.** Utilize a waste management company, approved by the enforcing agency, which can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with Section 4.408.1.  
**Note:** The owner or contractor may make the determination if the construction and demolition waste materials will be diverted by a waste management company.  
**4.408.4 WASTE STREAM REDUCTION ALTERNATIVE [LR].** Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed 3.4 lbs./sq. ft. of the building area shall meet the minimum 65% construction waste reduction requirement in 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 pounds per square foot of the building area, shall meet the minimum 65% construction waste reduction requirement in Section 4.408.1.  
**4.408.5 DOCUMENTATION.** Documentation shall be provided to the enforcing agency which demonstrates compliance with Section 4.408.2, Items 1 through 5, Section 4.408.3 or Section 4.408.4.  
**Notes:**  
1. Sample forms found in "A Guide to the California Green Building Standards Code (Residential)" located at [www.hcd.ca.gov/CALGreen.html](http://www.hcd.ca.gov/CALGreen.html) may be used to assist in documenting compliance with this section.  
2. Mixed construction and demolition debris (C & D) processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).  
**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:  
1. Directions to the owner or occupant that the manual shall remain with the building throughout the life cycle of the structure.  
2. Operation and maintenance instructions for the following:  
a. Equipment and appliances, including water-saving devices and systems, HVAC systems, photovoltaic systems, electric vehicle chargers, water-heating systems and other major appliances and equipment.  
b. Roof and yard drainage, including gutters and downspouts.  
c. Space conditioning systems, including condensers and air filters.  
d. Landscape irrigation systems.  
e. Water reuse systems.  
3. Information from local utility, water and waste recovery providers on methods to further reduce resource consumption, including recycle programs and locations.  
4. Public transportation and/or carpool options available in the area.  
5. Educational material on the positive impacts of an interior relative humidity between 30-60 percent and what methods occupants may use to maintain the relative humidity level in that range.  
6. Information about water-conserving landscape and irrigation design and controllers which conserve water.  
7. Instructions for maintaining gutters and downspouts and the importance of diverting water at least 5 feet away from the foundation.  
8. Information on required routine maintenance measures, including, but not limited to, caulking, painting, grading around the building, etc.  
9. Information about state solar energy and incentive programs available.  
10. A copy of all special inspections verifications required by the enforcing agency or this code.  
11. Information from the Department of Forestry and Fire Protection on maintenance of defensible space around residential structures.  
12. Information and/or drawings identifying the location of grab bar reinforcements.  
**4.410.2 RECYCLING BY OCCUPANTS.** Where 5 or more multifamily dwelling units are constructed on a building site, provide readily accessible area(s) that serves all buildings on the site and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals, or meet a lawfully enacted local recycling ordinance, if more restrictive.  
**Exception:** Rural jurisdictions that meet and apply for the exemption in Public Resources Code Section 42849.82 (a)(2)(A) et seq. are not required to comply with the organic waste portion of this section.  
**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 sheetrock, 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 hardwood, 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 93210.1.  
**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.

**PROPOSED REMODEL FOR  
CHESTER HOWE  
5606 FRIARS RD # 306,  
SAN DIEGO, CA 92110**

Project Name and Address

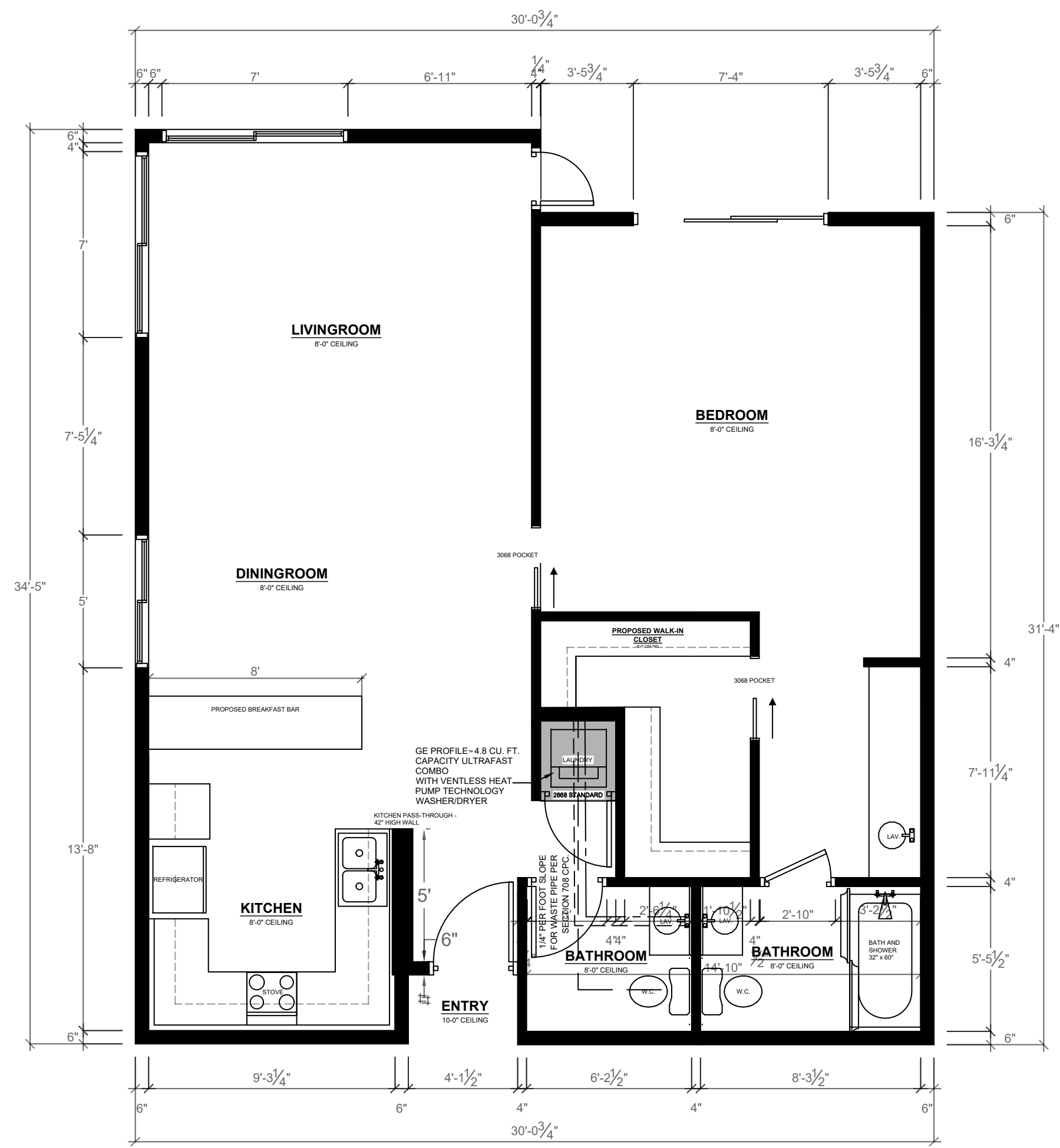
**40 ADVANCED DEVELOPMENT**  
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License# 905815

REVISION	DATE	DESCRIPTION
1	6/21/2023	CLIENT REVIEW
2		APR
3		PLAN CHECK
4		CORRECTIONS
5		PERMIT
No.	Revised/Issue	Date

Project: 436611538  
Date: 06/2023  
Scale: CG1.0





**PROPOSED THIRD LEVEL UNIT #306-PLUMBING PLAN**

**UTILITY PLAN NOTES**

1. LOCAL EXHAUST FANS TO EXTERIOR TO PROVIDE MINIMUM 50 CFM INTERMITTENT OR 20 CFM CONTINUOUS VENTILATION.
2. SMOKE DETECTORS TO BE INTERCONNECTED PER CRC R314.4 AND HARD-WIRED WITH BATTERY BACK-UP PER CRC R314.6
3. CARBON MONOXIDE ALARMS TO BE INTERCONNECTED PER CRC R315.7 AND HARD-WIRED WITH BATTERY BACK-UP PER CRC R315.5
4. 4" Ø DRYER VENT WITH MAXIMUM 14 FOOT COMBINED HORIZONTAL AND VERTICAL LENGTH WITH TWO 90 DEGREE ELBOWS.
5. A MECHANICAL EXHAUST VENTILATION SYSTEM, SUPPLY VENTILATION SYSTEM, OR COMBINATION THEREOF SHALL BE INSTALLED FOR EACH DWELLING UNIT TO PROVIDE WHOLE-BUILDING VENTILATION WITH OUTDOOR AIR IN COMPLIANCE WITH ASHRAE STANDARD 62.2 AS ADOPTED BY THE CALIFORNIA ENERGY COMMISSION.
6. AN INTERMITTENTLY OR CONTINUOUSLY OPERATING LOCAL MECHANICAL EXHAUST VENTILATION SYSTEM SHALL BE INSTALLED IN EACH BATHROOM WITH A BATHTUB, SHOWER, OR SIMILAR MOISTURE SOURCE AND IN EACH KITCHEN IN COMPLIANCE WITH ASHRAE STANDARD 62.2 AS ADOPTED BY THE CALIFORNIA ENERGY COMMISSION. INTERMITTENT LOCAL EXHAUST VENTILATION AIRFLOW RATES SHALL BE 50 CFM IN BATHROOMS AND 100 CFM IN KITCHENS. CONTINUOUS LOCAL EXHAUST VENTILATION AIRFLOW RATES SHALL BE 20 CFM IN BATHROOMS AND 5 AIR CHANGES PER HOUR IN KITCHENS BASED ON KITCHEN VOLUME.
7. WATER HEATER OR FURNACE SHALL BE A DIRECT-VENT APPLIANCE LISTED GASKETED SELF CLOSING DOOR REQUIRED FOR GAS FAU.
8. GE PROFILE™ 4.8 CU. FT. CAPACITY ULTRAFAST COMBO WITH VENTLESS HEAT PUMP TECHNOLOGY WASHER/DRYER
9. DRYER VENTS SHALL BE EQUIPPED WITH BACK-DRAFT DAMPERS PER SECTION 504.11.1 CMC.
10. 1/4" PER FOOT SLOPE FOR WASTE PIPE PER SECTION 708 CPC.
11. \*BUILDING DRAIN AND VENT PIPING MATERIALS SHALL COMPLY WITH SECTIONS 701.0 AND 903.0 OF THE CALIFORNIA PLUMBING CODE.\*
12. ALL SANITARY SYSTEM MATERIALS SHALL BE LISTED BY AN APPROVED LISTING AGENCY.\*
13. DOMESTIC HOT WATER PIPING SHALL BE INSULATED PER SECTION 609.12.2 CPC.
14. ELECTRIC HIGH EFFICIENT CLOTHES DRYER.

**PROPOSED REMODEL FOR  
CHESTER HOWE  
5606 FRIARS RD # 306,  
SAN DIEGO, CA 92110**

**PLUMBING**

No.	Revision/Issue	Date
1	CLIENT REVIEW	6/21/2023
2	APP.	
3	PLAN CHECK	
4	CORRECTIONS	
5	PERMIT	
6		
7		

**ADVANCED DEVELOPMENT**  
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License# 905815

Project	436611538	Sheet	<b>P1.0</b>
Date	06/2023		
Scale			

**PLUMBING SYMBOLS LEGEND**

— — — — —	COLD WATER (CW)	VTR	VENT THRU ROOF
- - - - -W - - - - -	COLD WATER (CW) - BELOW SLAB/GRADE	PC	PLUMBING CONTRACTOR
— — — — —	HOT WATER (HW)	CO	CLEANOUT
— — — — —LPG	LIQUID PETRO. GAS	WCO	WALL CLEANOUT
— — — — —D	CONDENSATE LINE	FFCO/FGCO	FLUSH FLOOR/GRADE CLEANOUT
— — — — —	PLUMBING VENT (V)	BV	BALL VALVE
— — — — —	SANITARY WASTE (SAN) - BELOW SLAB/GRADE	AS	ANGLE STOP
○ — ○	PIPE TURNING UP/DOWN	HD	HUB DRAIN
⊕	GATE VALVE	FD	FLOOR DRAIN
⊕	FIXTURE IDENTIFICATION	RI	ROUGH-IN
⊕	PLAN NOTE	OC	ON CENTERS
AFF/AFG	ABOVE FINISHED FLOOR/GRADE	FPC	FIRE PROTECTION CONTRACTOR
⊕	VALVE IN RISE	MC	MECHANICAL CONTRACTOR
DCOTG	DOUBLE CLEANOUT TO GRADE	EC	ELECTRICAL CONTRACTOR
		BFP	BACKFLOW PREVENTER

**PFG97HSPVDS**  
 GE Profile™ 4.8 cu. ft. Capacity UltraFast Combo  
 with Ventless Heat Pump Technology Washer/Dryer

**DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)**

<b>ELECTRIC RATING</b>
120V   10A, 60Hz

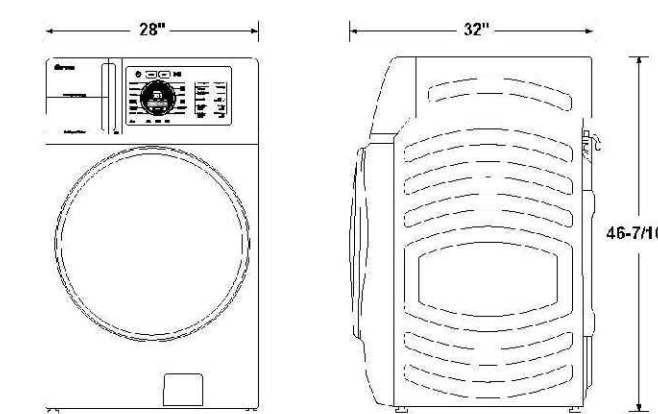
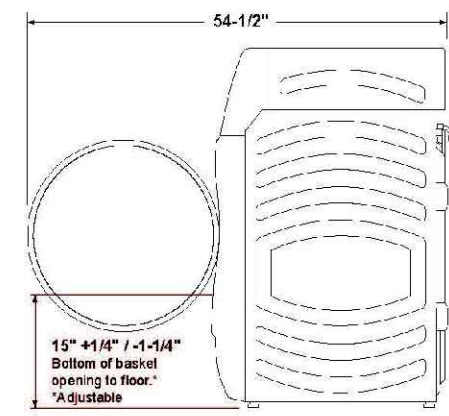
**INSTALLATION INFORMATION:** For complete information, see installation instructions packed with your Combo.

**CIRCUIT REQUIREMENTS:** An individual, properly grounded branch circuit, protected by a 15-amp circuit breaker or a time-delay fuse, is required.

**NOTE:** Combo wall outlet must be located within 36" of service cord entry and accessible when combo is mounted in position.

**INCLUDED POWER CORD LENGTH - Up to 65"**

**INCLUDED DRAIN HOSE LENGTH - Up to 60"**



**PFG97HSPVDS**  
 GE Profile™ 4.8 cu. ft. Capacity UltraFast Combo  
 with Ventless Heat Pump Technology Washer/Dryer

**ALCOVE OR CLOSET INSTALLATION:**

-Approved for closet installation. Closet doors must be louvered or otherwise ventilated and have a least 60 square inches (50% min) of open area.

**-No Venting Required.**

-Minimum clearances between Combo cabinet and adjacent walls or other surfaces are 0" all sides and top.\*

**MINIMUM CLEARANCE OTHER THAN ALCOVE OR CLOSET INSTALLATIONS:**

-Minimum clearances to combustible surfaces 0" all sides and top.\*

**WEIGHT**

-Combo weight: 323 lbs  
 -Product weight: 302 lbs

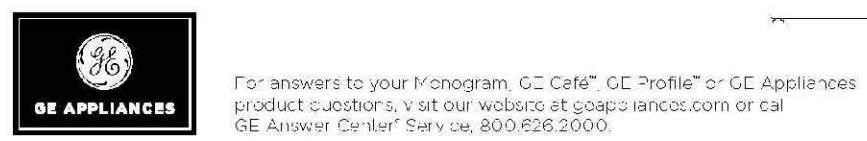
\*For improved durability, a 1/2" clearance is suggested on each side.

**ACCESSORIES**

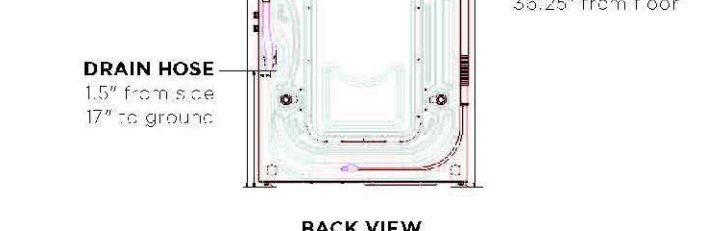
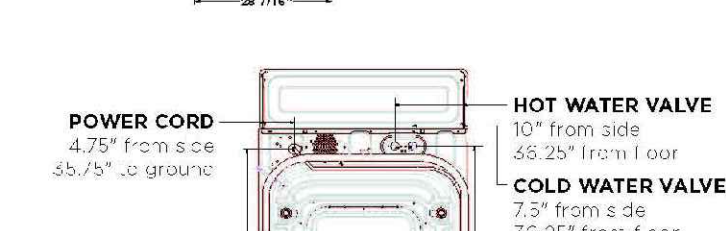
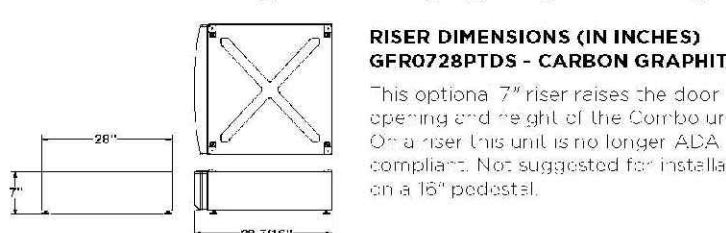
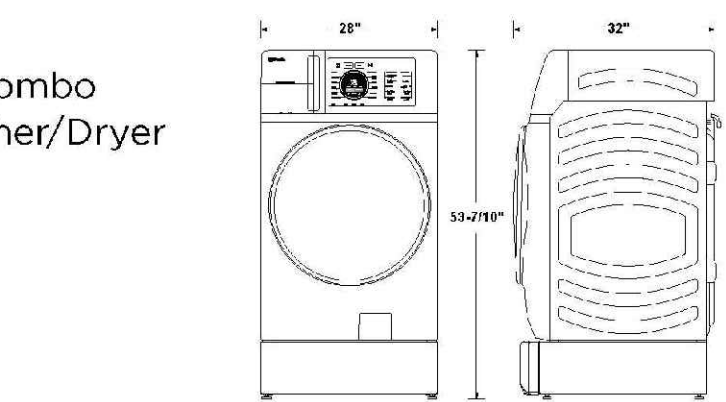
Fill Hoses	WH11X10207 (sold separately)
Optional Filter	GF3072997 (sold separately)
Sink, Hubcap or Hook-up	WH14X2745B (sold separately)
Drain Hose Extension Kit (Approx. 4.4')	WH45X2746 (sold separately)
Inventor Low Profile Washer Floor Tray	FM7X2 (sold separately)
Touch-Up Paint - 0.6 OZ.	WR97X2770E (sold separately)

**WARRANTY**

Labor Warranty	Limited 1-year entire-appliance
Parts Warranty	Limited 1-year entire-appliance Limited 5-year sealed system Limited 10-year motor



Specification Created 1/25



**HOT WATER VALVE**  
 10" from side  
 45.25" from floor

**COLD WATER VALVE**  
 7.5" from side  
 32.25" from floor

**BACK VIEW**

Specification Created 1/25

**PFG97HSPVDS**  
 GE Profile™ 4.8 cu. ft. Capacity UltraFast Combo  
 with Ventless Heat Pump Technology Washer/Dryer

**FEATURES AND BENEFITS**

**2-in-1 Washer/Dryer** - Wash & Dry a large load of laundry in about 2 hours without the hassle of transferring clothes from the washer to the dryer.\*

**High-Airflow Ventless Drying System** - Recirculated high-speed filtered airflow lets you gently dry activewear, denim and other delicate items so you don't have to hang dry.

**Easy Installation & Space-Saving Solutions** - Reconfigure your laundry space and location with a 20V, all-in-one Ventless Combo design that takes up half the space of two separate units.

**Greater Energy Savings\*\*** - 50% more energy efficient drying\*\* with Ventless Heat Pump.

**Adaptive SmartDispense™ Technology** - Save time and effort with an intelligent dispenser that holds enough detergent and softener for up to 32 loads. Plus, scan the barcode on the detergent or softener bottle with the SmartHQ™ app and the washer will dispense the right amount based on the type of product used.

**Microban® Antimicrobial Technology** - Provides antimicrobial protection on the gasket, dispenser and draining system, to help prevent odors and ensure your Combo stays fresh and clean load after load.

**Smart Features Powered by SmartHQ™** - When connected to the SmartHQ™ app, the Combo allows you to select detergents, download specialty cycles, receive cycle status notifications, and initiate updates.

**Large Wash Capacity** - Large, 4.8-cu.-ft. capacity lets you clean large sized loads, even clean a king-size comforter.

**Limited Warranty** - Best assured knowing your unit is backed by a 10-year limited warranty on the motor and a 5-year limited warranty on the sealed drying system.

**EZ Access Lint Filter System** - An exclusive, easy-to-reach lint filter system allows you to remove lint and micro particles, ensuring your Combo operates at the highest levels of efficiency.

**Sanitize with Oxi** - Remove 99% of bacteria with a dedicated cycle that uses an Oxi additive to boost your detergent's cleaning power, while keeping fabrics looking and feeling their best.

**Eco Cool™ Cycle** - Save energy with a specially designed cold-water wash and efficient Dry cycle that delivers comparable cleaning performance to the normal warm water wash cycle.



\*Based on completing the Normal Wash + Dry cycle with Eco Dry on using a 10-lb. DOE or Mixed Load in about 2 hours. See Use & Care Manual for details.  
 \*\*Efficiency rating as compared to the requirements for ENERGY STAR qualification for standard electric dryers.



Specification Created 1/25

- UTILITY PLAN NOTES**
- LOCAL EXHAUST FANS TO EXTERIOR TO PROVIDE MINIMUM 50 CFM INTERMITTENT OR 20 CFM CONTINUOUS VENTILATION.
  - SMOKE DETECTORS TO BE INTERCONNECTED PER CRC R314.4 AND HARD-WIRED WITH BATTERY BACK-UP PER CRC R314.6
  - CARBON MONOXIDE ALARMS TO BE INTERCONNECTED PER CRC R315.7 AND HARD-WIRED WITH BATTERY BACK-UP PER CRC R315.5
  - 4" Ø DRYER VENT WITH MAXIMUM 14 FOOT COMBINED HORIZONTAL AND VERTICAL LENGTH WITH TWO 90 DEGREE ELBOWS.
  - A MECHANICAL EXHAUST VENTILATION SYSTEM, SUPPLY VENTILATION SYSTEM, OR COMBINATION THEREOF SHALL BE INSTALLED FOR EACH DWELLING UNIT TO PROVIDE WHOLE-BUILDING VENTILATION WITH OUTDOOR AIR IN COMPLIANCE WITH ASHRAE STANDARD 62.2 AS ADOPTED BY THE CALIFORNIA ENERGY COMMISSION.
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  - WATER HEATER OR FURNACE SHALL BE A DIRECT-VENT APPLIANCE LISTED GASKETED SELF-CLOSING DOOR REQUIRED FOR GAS FAU.
  - GE PROFILE™ 4.8 CU. FT. CAPACITY ULTRAFAST COMBO WITH VENTLESS HEAT PUMP TECHNOLOGY WASHER/DRYER.
  - DRYER VENTS SHALL BE EQUIPPED WITH BACK-DRAFT DAMPERS PER SECTION 504.11.01C.
  - 1/4" PER FOOT SLOPE FOR WASTE PIPE PER SECTION 708 CPC.
  - \*BUILDING DRAIN AND VENT PIPING MATERIALS SHALL COMPLY WITH SECTIONS 701.9 AND 903.0 OF THE CALIFORNIA PLUMBING CODE.
  - ALL SANITARY SYSTEM MATERIALS SHALL BE LISTED BY AN APPROVED LISTING AGENCY.\*
  - DOMESTIC HOT WATER PIPING SHALL BE INSULATED PER SECTION 609.12.2 CPC.
  - ELECTRIC HIGH EFFICIENT CLOTHES DRYER.

**PROPOSED REMODEL FOR  
 CHESTER HOWE  
 5606 FRIARS RD # 306,  
 SAN DIEGO, CA 92110**

**SHEET TITLE**

**MECHANICAL**

	CLIENT REVIEW	6/21/2023
	APR	
	PLAN CHECK	
	CORRECTIONS	
	PERMIT	
No.	Revision/Issue	Date

Project Name and Address

**ADVANCED DEVELOPMENT**  
 RESIDENTIAL COMMERCIAL INDUSTRIAL

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License# 905815

Project	436611538	Sheet	<b>M1.0</b>
Date	06/2023		
Scale			

**PROPOSED THIRD LEVEL UNIT #306-MECHANICAL PLAN**

