



4552 TRAFALGAR DRIVE

PROJECT # 03.01.2119

PROJECT TEAM

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4552 TRAFALGAR DRIVE LA
PALMA CA 90623 UNITED STATES

MARGRETTE CLAIRE SIBELL AND
MARIE CLAIRE HALL.

CONTRACTOR

M L HARMON CONSTRUCTION
CSLB# 585649

4552 TRAFALGAR DRIVE LA
PALMA CA 90623 UNITED STATES

PROJECT INFORMATION

SUMMARY OF SCOPE:

- 1-SINGLE STORY ADDITION TO ENTRY 67 GSF.
- 2-RELOCATING HVAC EQUIPMENTS TO THE GARAGE. (ONLY POINT OF CONNECTION TO BE CHANGED. ALL DUCT REMAIN THE SAME)
- 3-RELOCATING THE STAIRS SYSTEM.
- 4-INTERIOR ALTERATION TO (E) GUEST BATHROOM.
- 5- NEW DOOR OPENING TO LAUNDRY ROOM.

PROJECT ADDRESS:

4552 TRAFALGAR DRIVE LA PALMA CA 90623 UNITED STATES

LEGAL JURISDICTION:

CITY OF LA PALMA

EXISTING BUILDING CONSTRUCTION TYPE:

TYPE V – NON – RATED

OCCUPANCY CLASSIFICATION:

GROUP R-1

HANDICAP ACCESSIBILITY:

THIS PROJECT HAS BEEN DESIGNED TO BE COMPLAISANCE WITH THE STATE OF CALIFORNIA TITLE 24ACCESSIBILITY REQUIREMENTS.



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STAIRWAYS

1. EXTERIOR STAIR STRINGERS MUST BE NATURALLY RESISTANT TO DECAY OR PRESSURE TREATED. (CRC R317.1)
2. RISE SHALL BE MAXIMUM 7.75"; RUN SHALL BE 10" MINIMUM; HEADROOM 6'-8" MINIMUM; WIDTH 36" MINIMUM, 31.5" BETWEEN A HANDRAIL ON ONE SIDE AND 27" WITH HANDRAILS ON TWO SIDES. VARIATION BETWEEN RISER HEIGHTS 3/8" MAXIMUM. A NOSING NOT LESS THAN .75 INCHES BUT NOT MORE THAN 1.25 INCHES SHALL BE PROVIDED ON STAIRWAYS WITH SOLID RISERS WHERE THE TREAD DEPTH IS LESS THAN 11 INCHES. THE LEADING EDGE OF TREADS SHALL PROJECT NOT MORE THAN 1.25 INCHES BEYOND THE TREAD BELOW. OPEN RISERS ARE PERMITTED, PROVIDED THE OPENING BETWEEN THE TREADS DOES NOT PERMIT THE PASSAGE OF A 4" SPHERE. (OPENINGS ARE NOT LIMITED WHEN THE STAIR HAS A RISE OF 30" OR LESS). (CRC R311.7)
3. STAIRWAYS WITH 4 OR MORE RISERS SHALL HAVE A HANDRAIL ON ONE SIDE 34" TO 38" ABOVE THE TREAD NOSING. CIRCULAR HANDRAILS SHALL HAVE AN OUTSIDE DIAMETER OF 1.25"-2"; IF NOT CIRCULAR, IT SHALL HAVE A PERIMETER DIMENSION OF 4"-6.25" WITH A MAXIMUM CROSS SECTIONAL DIMENSION OF 2.25". SEE R311.7.8.3 ITEM# 2 FOR TYPE II HANDRAILS WITH A PARAMETER OVER 6.25". A MINIMUM CLEARANCE OF 1.5" SHALL BE MAINTAINED FROM THE WALL OR OTHER SURFACE. HANDRAILS SHALL BE RETURNED, TERMINATE IN NEWEL POSTS, OR SAFETY TERMINALS. (CRC R311.7.8.2)
4. GUARDS SHALL BE 42" MINIMUM HEIGHT (UNLESS ACTING AS A HANDRAIL/GUARD FOR A STAIRWAY; THE GUARD HEIGHT MAY BE 34"-38" IN HEIGHT), WITH OPENINGS LESS THAN 4" INCHES CLEAR (GUARDS ON THE OPEN SIDES OF STAIRS MAY HAVE 4 3/8" OPENINGS). (CRC R312)
5. PROVIDE LANDINGS AT THE TOP/BOTTOM OF THE STAIRWAY THE WIDTH OF THE STAIRWAY. THE DEPTH OF THE LANDING SHALL BE 36" MINIMUM. (SEE CRC R311.7.6 FOR EXCEPTIONS).
6. USABLE SPACES UNDERNEATH ENCLOSED/UNENCLOSED STAIRWAYS SHALL BE PROTECTED BY A MINIMUM OF 1/2" GYPSUM BOARD. (CRC R302.7)

WALLS

1. POSITIVE POST TO BEAM CONNECTION SHALL BE PROVIDED TO ENSURE AGAINST UPLIFT AND LATERAL DISPLACEMENT. (CRC R502.9 & CBC 2304.9.7)
2. ALL FASTENERS USED FOR ATTACHMENT OF SIDING & INTO PRESSURE TREATED LUMBER SHALL BE OF A CORROSION RESISTANT TYPE (CRC R317.3).
3. FIRE-BLOCK IN CONCEALED SPACES OF STUD WALLS/PARTITIONS, VERTICALLY AT CEILING/FLOOR LEVELS, & HORIZONTALLY AT 10FT. INTERVALS. FIRE-BLOCK AT SOFFITS, DROP CEILINGS/SIMILAR LOCATIONS & IN CONCEALED SPACES AT THE TOP/BOTTOM OF STAIR STRINGERS. (CRC R302.11)
4. PROVIDE APPROVED BUILDING PAPER UNDER THE BUILDING SIDING AND APPROVED FLASHING AT EXTERIOR OPENINGS (CRC R703.2). SPECIFY A MINIMUM OF 2 LAYERS OF GRADE D PAPER UNDER STUCCO AND 2 LAYERS OF 15LB FELT (OR EQUIVALENT) UNDER STONE VENEER.
5. STUCCO SHALL HAVE A MINIMUM CLEARANCE TO EARTH OF 4 INCHES AND 2 INCHES TO PAVED SURFACES WITH AN APPROVED WEEP SCREED. (CRC R703.7.2.1) MASONRY STONE VENEER SHALL BE FLASHED BENEATH THE FIRST COURSE OF MASONRY AND PROVIDED WITH WEEP HOLES IMMEDIATELY ABOVE THE FLASHING. (CRC R703.8.5 AND R703.8.6)

ENERGY CODE

1. ALL DUCTS IN CONDITIONED SPACES MUST INCLUDE R-4.2 INSULATION. (CALIFORNIA ENERGY CODE 150.1(C)9)
2. INSULATE THE FIRST 5' OF HOT/COLD WATER LINES, ALL LINES 3/4 INCH IN DIAMETER OR LARGER, ALL RECIRCULATION PIPING, PIPING TO STORAGE TANKS AND ALL HOT WATER PIPES TO KITCHEN FIXTURES FROM THE WATER HEATER. (CALIFORNIA ENERGY CODE 150(J)(2))
3. ISOLATION WATER VALVES REQUIRED FOR INSTANTANEOUS WATER HEATERS 6.8KBTU/HR AND ABOVE. VALVES SHALL BE INSTALLED ON BOTH COLD AND HOT WATER LINES. EACH VALVE WILL NEED A HOSE BIB OR OTHER FITTING ALLOWING FOR FLUSHING THE WATER HEATER WHEN THE VALVES ARE CLOSED. (CEC 110.3(C)7)
4. PROJECT SHALL MEET THE MINIMUM VENTILATION AND ACCEPTABLE INDOOR AIR QUALITY REQUIREMENTS PER ASHRAE STANDARD 62.2. WINDOW OPERATION IS NOT A PERMISSIBLE METHOD OF PROVIDING THE WHOLE BUILDING VENTILATION AIRFLOW REQUIRED. THIS IS SUBJECT TO HERS TESTING. THE FOLLOWING LABEL MUST BE ATTACHED TO THE FAN SWITCH: "TO MAINTAIN MINIMUM LEVELS OF OUTSIDE AIR VENTILATION REQUIRED FOR GOOD HEALTH, THE FAN CONTROL SHOULD BE ON AT ALL TIMES WHEN THE BUILDING IS OCCUPIED, UNLESS THERE IS SEVERE OUTDOOR AIR CONTAMINATION." (CALIFORNIA ENERGY CODE 150.0(O))
5. WILDLAND URBAN INTERFACE (WUI)
6. BUILDINGS CONSTRUCTED AFTER JANUARY 1, 2008
7. EXTERIOR WALL COVERINGS SHALL BE NONCOMBUSTIBLE, IGNITION RESISTANT, HEAVY TIMBER, LOG WALL OR FIRE RESISTIVE CONSTRUCTION. (CRC R337.7)
8. EXTERIOR WALL COVERINGS SHALL EXTEND FROM THE FOUNDATION TO THE ROOF AND TERMINATE AT
9. 2 INCH NOMINAL SOLID BLOCKING BETWEEN RAFTERS AND OVERHANGS. (CRC R337.7.3.1)
10. OPEN/ENCLOSED ROOF EAVES AND SOFFITS, EXTERIOR PORCH CEILINGS, FLOOR PROJECTIONS, UNDER-FLOOR AREAS AND UNDERSIDES OF APPENDAGES TO COMPLY WITH IGNITION RESISTANT CONSTRUCTION REQUIREMENTS. (CRC R337.5-9) (SHOW COMPLIANCE ON THE PLANS).
11. SPACES CREATED BETWEEN ROOF COVERINGS AND ROOF DECKING SHALL BE FIRE STOPPED BY APPROVED MATERIALS OR HAVE ONE LAYER OF MINIMUM 72LB MINERAL SURFACED NONPERFORATED CAP SHEET COMPLYING WITH ASTM D 3909. (CRC R337.5.2)
12. VALLEY FLASHING SHALL BE NOT LESS THAN 26AWG AND INSTALLED OVER NOT LESS THAN ONE LAYER OF MINIMUM 72LB MINERAL SURFACED NON-PERFORATED CAP SHEET COMPLYING WITH ASTM D 3909 AND AT LEAST 36 INCHES WIDE RUNNING THE FULL LENGTH. (CRC R337.5.3)
13. ATTIC GABLE AND EAVES ABOVE 12FT AND UNDER-FLOOR VENTILATION SHALL BE PROVIDED WITH FULLY COVERED METAL WIRE MESH, VENTS, OR OTHER MATERIALS THAT HAVE A MINIMUM 1/16 INCH AND MAXIMUM 1/8 INCH OPENINGS, NON-COMBUSTIBLE AND CORROSION RESISTANT. ALL OTHER EAVE VENTS SHALL BE LISTED/APPROVED TO RESIST THE INTRUSION OF FLAME AND BURNING EMBERS. (CRC R337.6)
14. EXTERIOR DOORS INCLUDING GARAGE DOORS SHALL BE NONCOMBUSTIBLE, IGNITION RESISTANT MATERIAL, MINIMUM 1 3/8 INCH SOLID CORE, MINIMUM 20 MINUTE FIRE RESISTIVE RATING OR SHALL BE TESTED TO MEET THE PERFORMANCE REQUIREMENTS OF SFM STANDARD 12-7A-1. (CRC R337.8.3)
15. THE WALKING SURFACE MATERIAL OF DECKS, PORCHES, BALCONIES AND STAIRS WITHIN 10FT OF GRADE LEVEL SHALL BE IGNITION RESISTANT MATERIAL, EXTERIOR FIRE RETARDANT TREATED WOOD OR NONCOMBUSTIBLE MATERIAL. (CRC R337.9)

EXISTING LOT AREA 4843 SF

EXISTING LOT COVERAGE (RESIDENCE)

(E) 1ST STORY	1290 SF
(E) 2ND STORY	1027 SF
(GARAGE)	500 SF

TOTAL EXISTING 2162 SF

NEW FLOOR AREA COVERAGE (RESIDENCE)

(N) 1ST STORY 70 SF

TOTAL PROPOSED 70 SF

TOTAL 2232 SF

APPLICABLE CODES

- 2019 CALIFORNIA BUILDING CODE (CBC) / 2018 INTERNATIONAL BUILDING CODE (IBC)
- 2019 CALIFORNIA EXISTING BUILDING CODE (CEBC) / 2018 INTERNATIONAL EXISTING BUILDING CODE (IEBC)
- 2019 CALIFORNIA HISTORICAL BUILDING CODE (CHBC)
- 2019 CALIFORNIA RESIDENTIAL CODE (CRC) / 2018 INTERNATIONAL RESIDENTIAL CODE (IRC)
- 2019 CALIFORNIA ELECTRICAL CODE (CEC) / 2017 NATIONAL ELECTRICAL CODE (NEC)
- 2019 CALIFORNIA MECHANICAL CODE (CMC) / 2018 UNIFORM MECHANICAL CODE (UMC)
- 2019 CALIFORNIA PLUMBING CODE (CPC) / 2018 UNIFORM PLUMBING CODE (UPC)
- 2019 CALIFORNIA GREEN BUILDINGS STANDARDS CODE (CALGREEN)
- 2019 CALIFORNIA ENERGY CODE

VICINITY MAP



NOTE

DIMENSIONS TO BE VERIFIED
IN FIELD FOR CODE
COMPLIANCE

SCALE : AS NOTED

DATE 03/25/2021



SHEET TITLE

INDEX SHEET

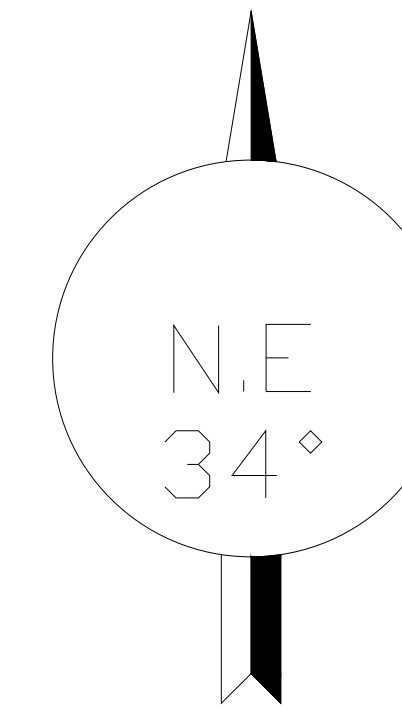
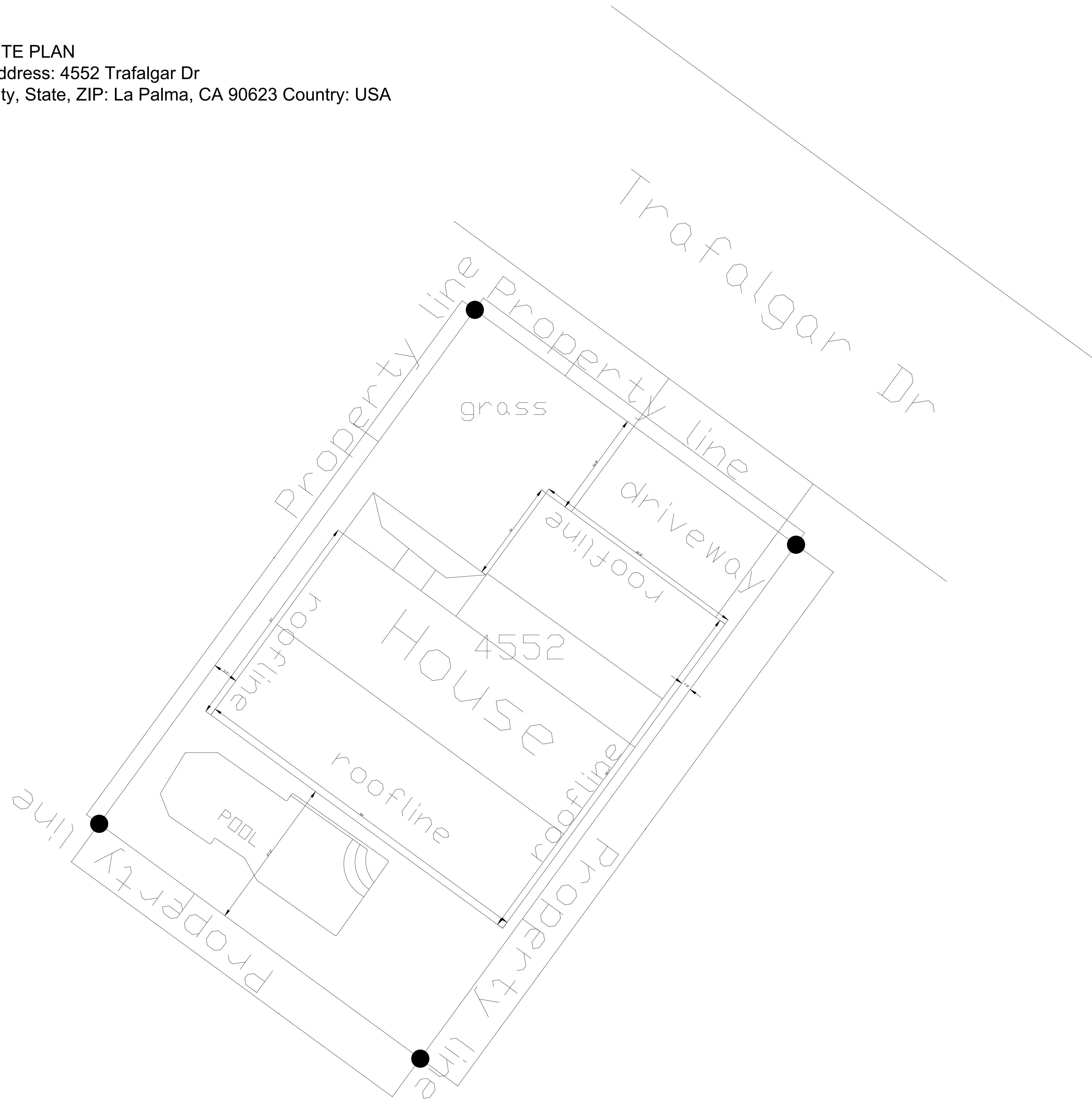
TS-1

4552 TRAFALGAR DRIVE
LA PALMA CA 90623 UNITED STATES

SITE PLAN

Address: 4552 Trafalgar Dr

City, State, ZIP: La Palma, CA 90623 Country: USA



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SITE PLAN

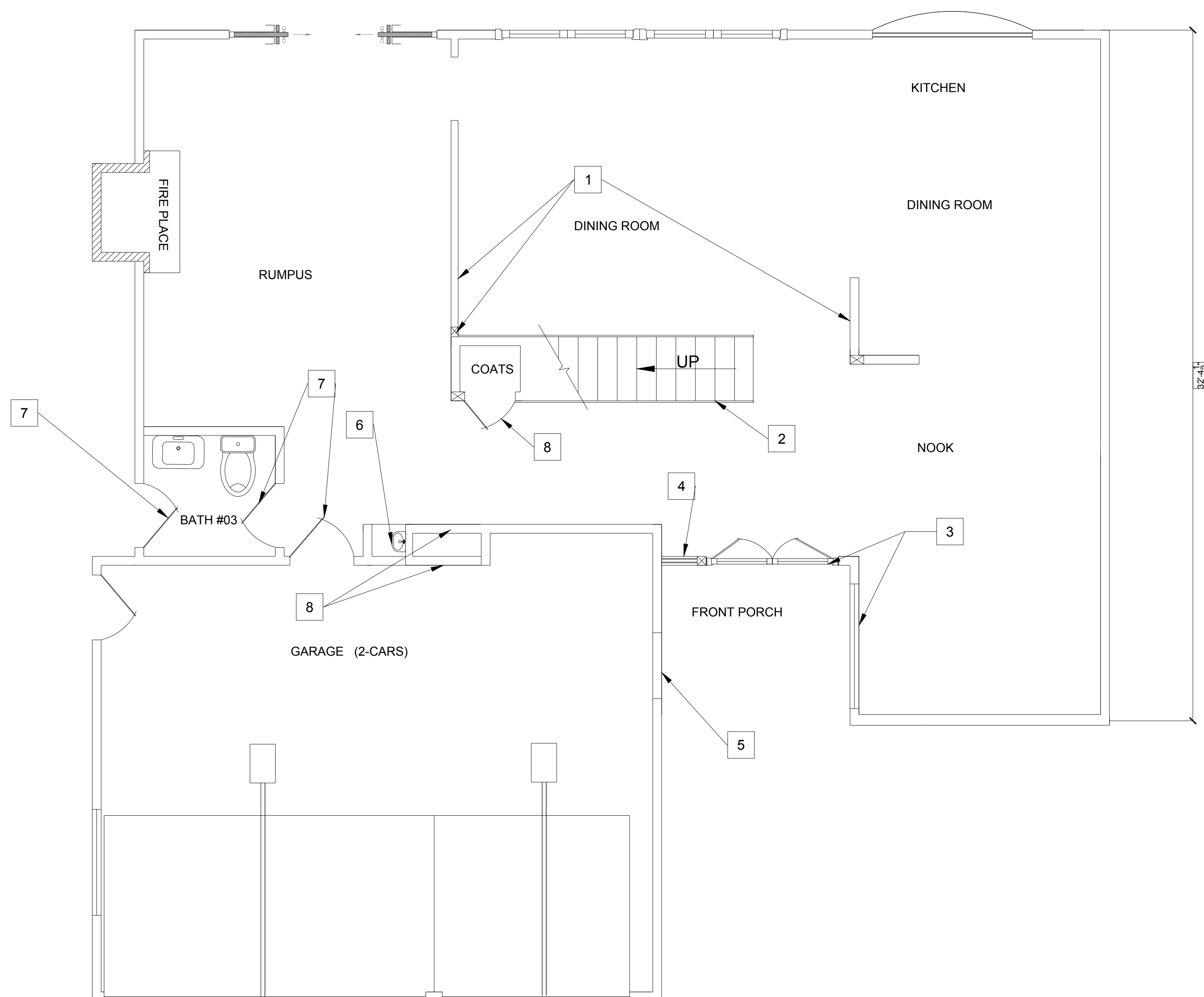
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GENERAL NOTES

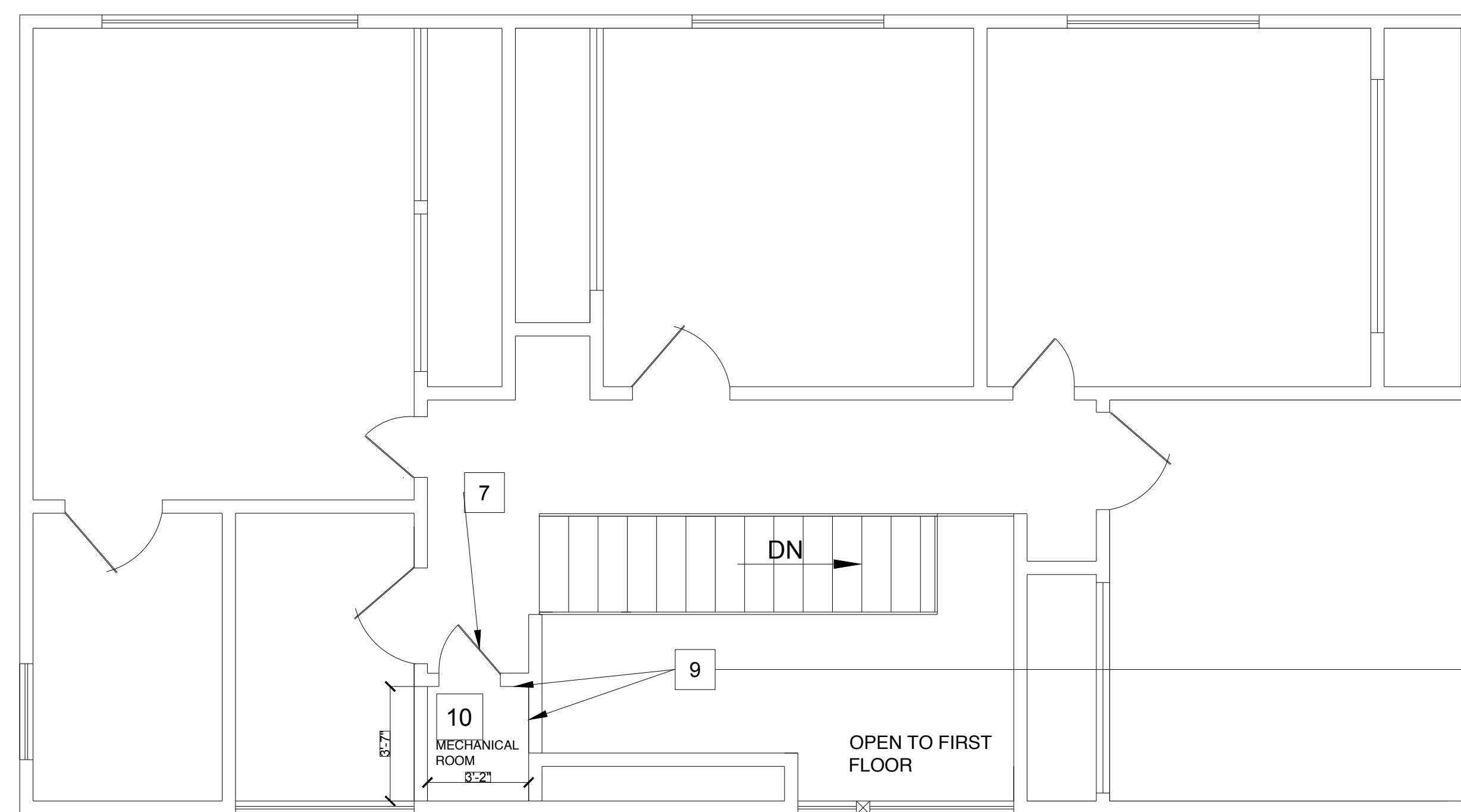
1. ALL FLOOR PLAN ITEMS ARE EXISTING U.N.O.
2. PRIOR TO CONSTRUCTION CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING SITE AND VERIFY EXISTING CONDITIONS.
3. PRIOR TO DEMOLITION OF THE STAIR SYSTEM, CONTRACTOR TO BUILD (N) NEW STAIR SYSTEM PER STRUCTURAL DRAWINGS.

DEMOLITION NOTES

- 1 EXISTING TO REMAIN, PROTECT IN PLACE DURING REMODELING.
- 2 REMOVE EXISTING WOOD STAIR SYSTEM
- 3 REMOVE EXISTING MAIN ENTRY DOUBLE DOOR & EXISTING WINDOW
- 4 REMOVE GLASS SIDELITE
- 5 REMOVE PORTION OF THE EXISTING WALL (34"x84") TO ALLOW FOR NEW DOOR FRAMING
- 6 REMOVE EXISTING HAND SINK, RE-USE PLUMBING PIPES FOR SHOWER WATER.
- 7 REMOVE EXISTING DOOR
- 8 REMOVE WALLS TO ALLOW FOR (R) MECHANICAL EQUIPMENTS
- 9 REMOVE WALL UP TO CEILING JOISTS
- 10 RELOCATE MECHANICAL EQUIPMENTS TO NEW LOCATION



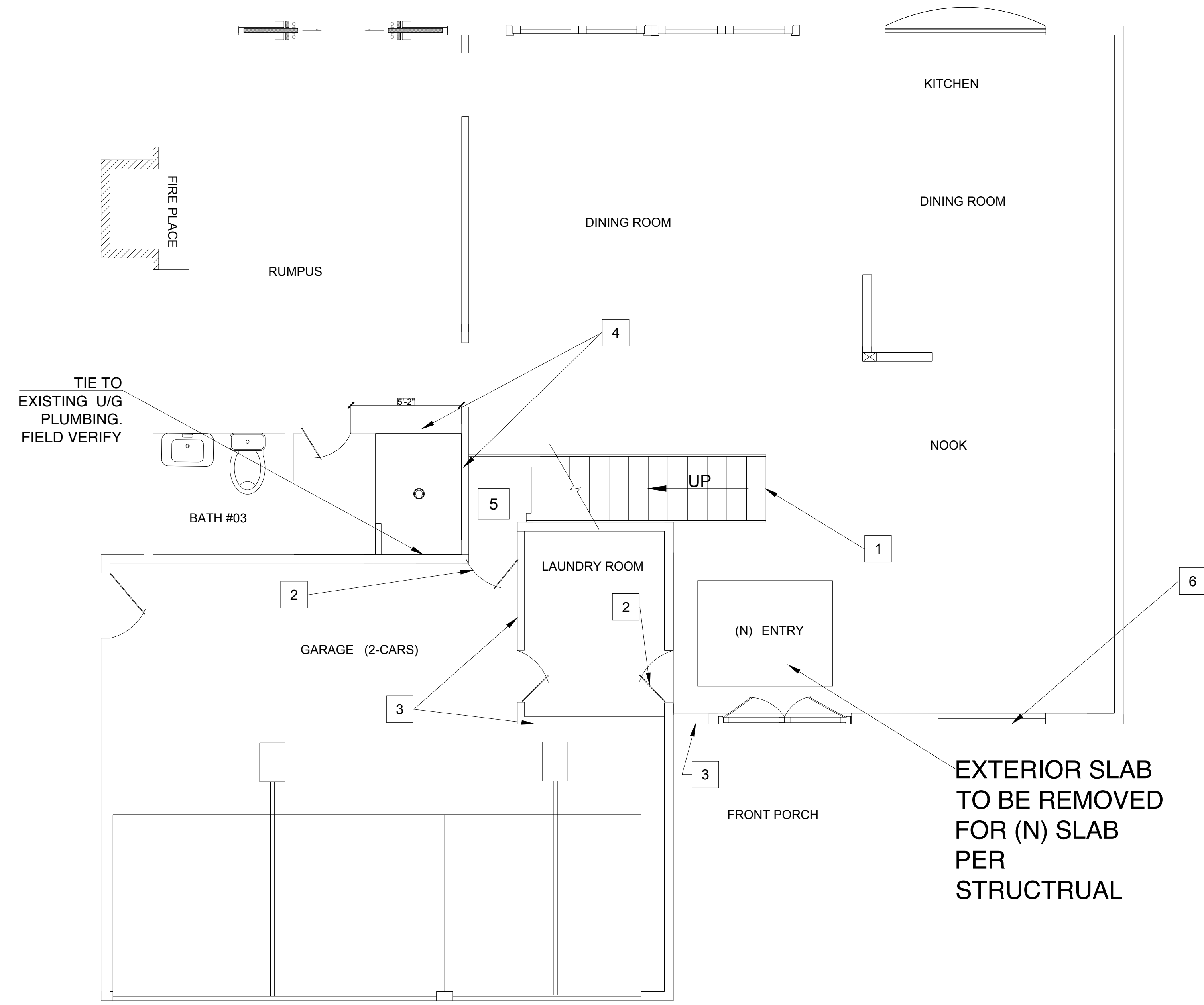
LOWER FLOOR DEMO PLAN



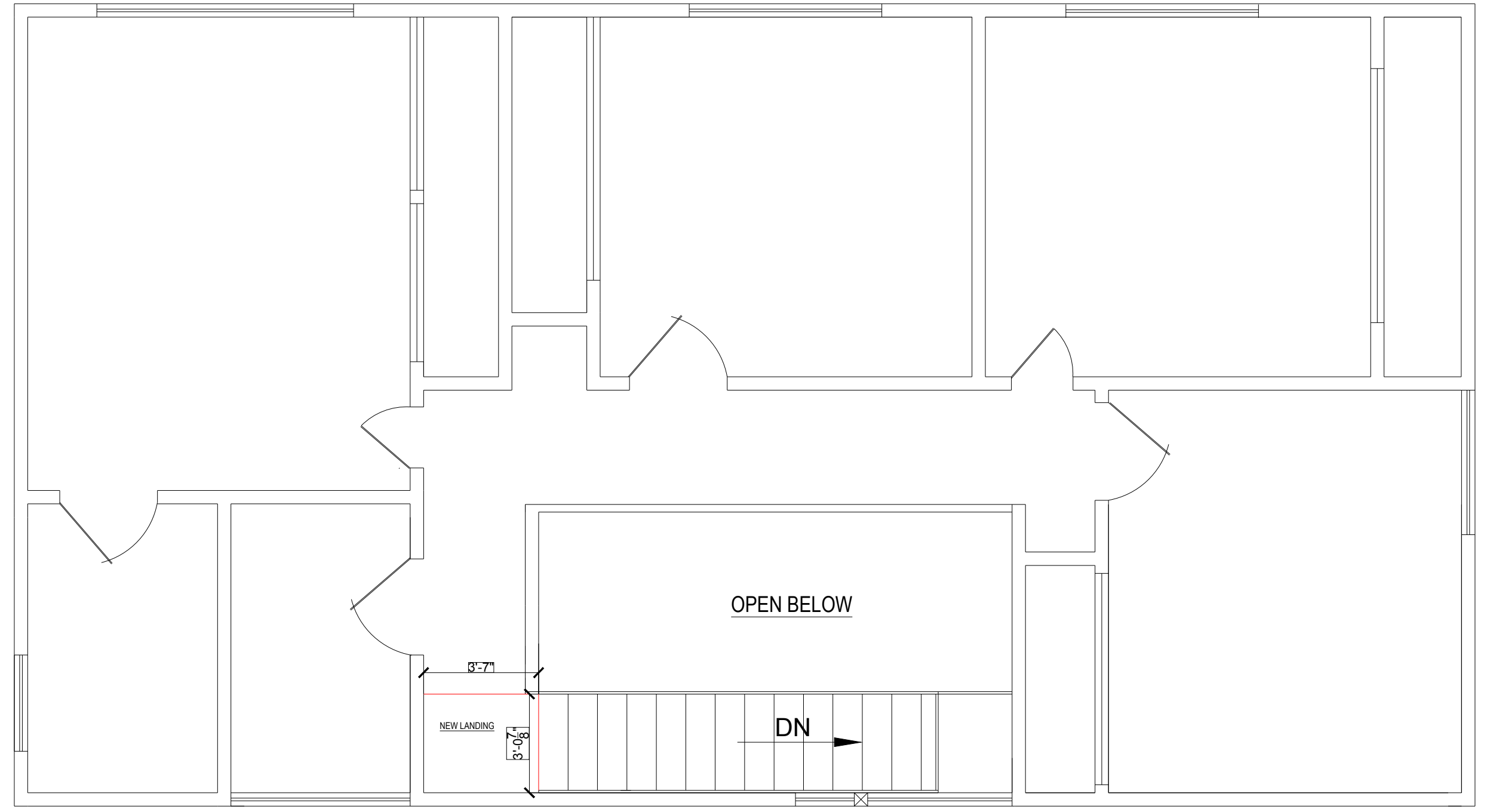
UPPER FLOOR DEMO PLAN



PICTURE OF THE MECHANICAL EQUIPMENTS TO BE RELOCATED, ALL DUCT WORK TO REMAIN THE SAME. FOR REFERENCE



LOWER PROPOSED FLOOR PLAN



UPPER PROPOSED FLOOR PLAN

GENERAL NOTES

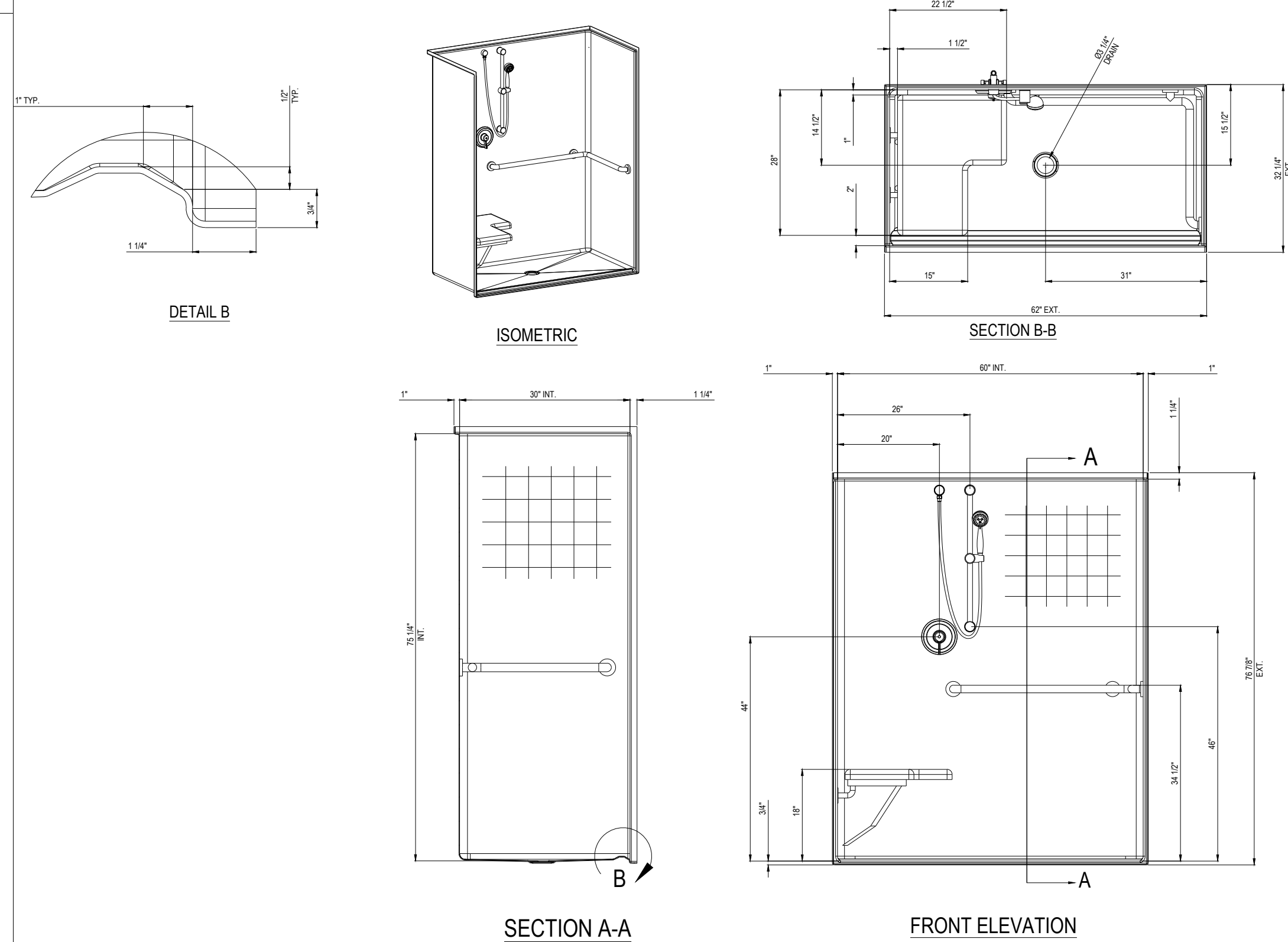
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- 2. PRIOR TO CONSTRUCTION CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING SITE AND VERIFY EXISTING CONDITIONS.

NOTES

- 1 (N) WOOD STAIR SYSTEM SEE STRUCTURAL SHEETS
- 2 (N) DOOR MATCH EXISTING SIZE & FINISH SEE HEADER SCHEDULE
- 3 (N) 2X4 WOOD STUD WALL SEE STRUCTURAL SHEETS
- 4 ENLARGE EXISTING BATHROOM SIZE, SEE MECHANICAL SHEET FOR PLUMBING
- 5 (N) MECHANICAL ROOM, REFER TO MECHANICAL SHEETS
- 6 (N) WINDOW (SEE STRUCTURAL)



PICTURE OF THE STAIRS SYSTEM TO BE RELOCATED FOR REFERENCE



ADA - WALK IN SHOWER DETAIL



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SHEET TITLE
(N) FLOOR PLAN



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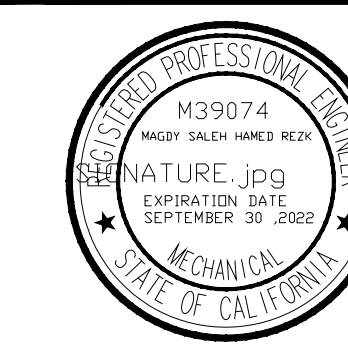
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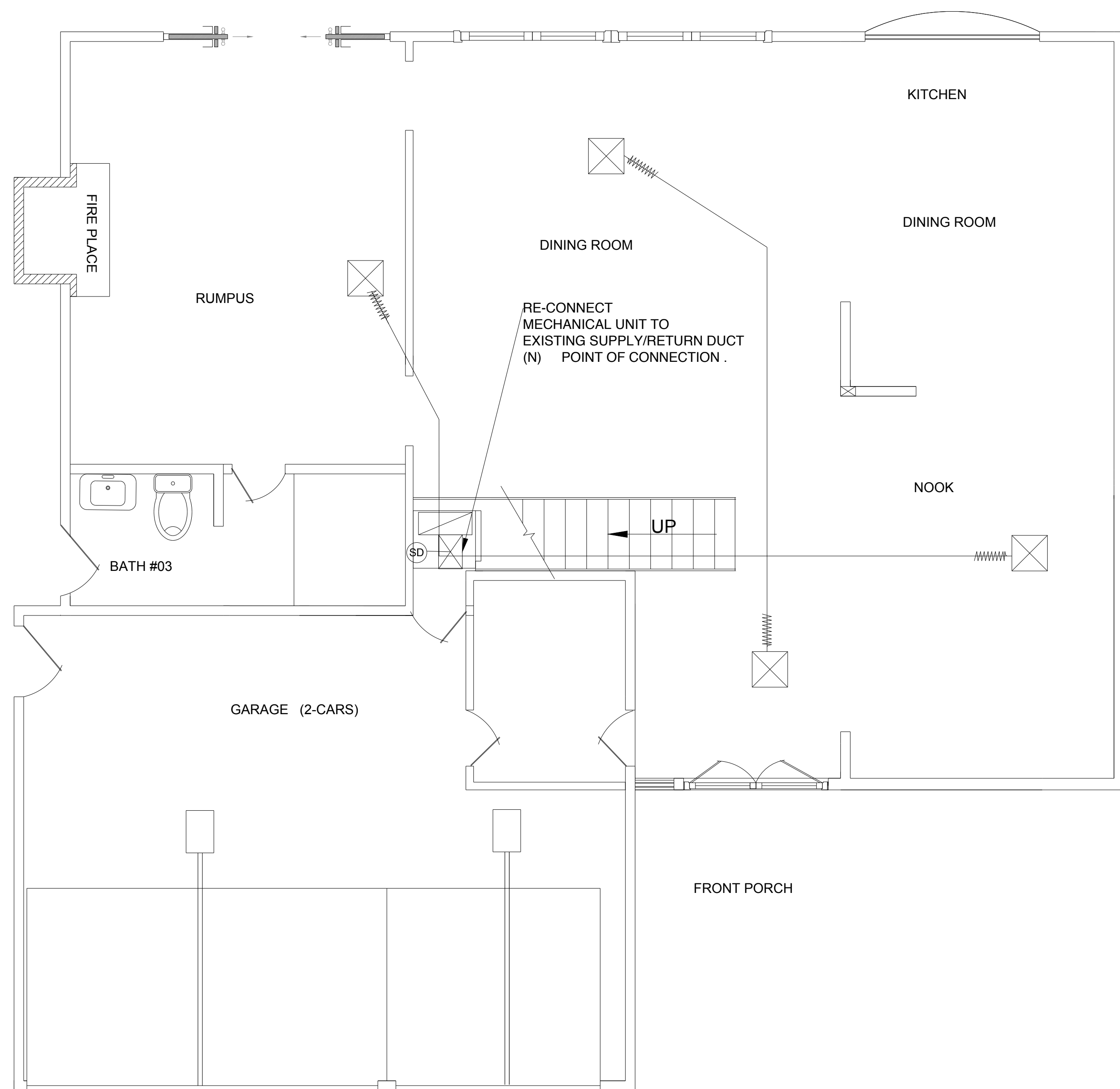
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SHEET TITLE
MECHANICAL
FLOOR PLAN

M-1



PROPOSED MECHANICAL FLOOR PLAN

MECHANICAL, PLUMBING, ELECTRICAL GENERAL NOTES

- Smoke detectors shall be installed in each sleeping room, outside each separate sleeping area in the immediately vicinity of the bedrooms and on each additional story of the dwelling, including basements. In dwellings with split levels, a smoke detector need to be installed only on the upper level provided the lower level is less than 1 full story below the upper level, unless there is a door separating the levels, in which case a detector is required on both levels. All detectors shall be interconnected such that the actuation of one alarm will actuate all the alarms in the individual unit providing an alarm which will be audible in all sleeping areas. Required smoke detectors shall receive their primary power from the building wiring when such wiring is served from a commercial source and when primary power is interrupted, shall receive power from a battery. Wiring shall be permanent and without a disconnecting switch other than those required for overcurrent protection. Sec. 316.1.
- Required smoke detectors shall not be located within kitchens or garages. Ionization smoke detectors shall not be located closer than 3' horizontally from the door to a kitchen; the door to a bathroom containing a tub or shower; or the supply register of a forced air heating or cooling system. A smoke detector installed within 20' (direct linear path) of a cooking appliance shall be photoelectric or the detector shall have an approved alarm silencing means. Sec. 316.1.
- For any additional or alteration requiring a building permit, the entire building shall be provided with smoke detectors located as required for new buildings. Smoke detectors installed under this provision need not be interconnected unless other remodeling considerations require removal of the appropriate wall or ceiling coverings to facilitate concealed interconnection. Sec. 316.1.
- Heating: Each thermostat shall be capable of being set from 55 degrees F--75 degrees F. Cooling equipment: Each thermostat shall be capable of being set for 70 degrees F--85 degrees F only. Sec. C501.3.1

- Free standing or built-in ranges require a vertical clearance above the cooking top not less than 30" to unprotected combustibles or 24" if protected by noncombustible material. Vented ranges hoods shall be vented to the outside by a single-wall pipe constructed of galvanized steel, stainless, copper or other approved material. The duct shall have a smooth interior surface, be substantially airtight and shall be equipped with a back-draft damper. Open top boiler units shall be provided with a hood complying with Sec. 1804 or incorporate an integral exhaust system listed for use without a hood. Self venting ranges or unvented hoods shall be installed in accordance with their listings. Sec. 1802.1, 2201.1, 2202.
- Clothes dryer exhaust vents shall convey products of combustion and moisture to the exterior. They shall not be connected with sheet-metal screws or other fastening means extending into the vent. They shall be equipped with back-draft dampers. Ducts shall be constructed of minimum .016" rigid metal with joints running in the direction of airflow. Transition ducts shall not be concealed within construction. Ducts shall terminate with a full opening exhaust hood. The maximum length of a 4" vent shall not exceed 25' from the dryer location to wall or roof termination. Length reductions of 2.5' for 45 degree bends and 5' for 90 degree bends are required. Installations when this length is exceeded shall be installed in accordance with the MFG's installation instructions. Sec. 1801.
- Wood stoves must be installed as per their installation instructions and must be labeled indicating they meet emissions requirements. Wood stoves installed in an alcove must be specifically approved for such installation. Used wood stoves must comply with Sec. 1307.5
- Fireplaces and masonry chimneys shall be installed per Chapter 10. A minimum 2" clearance to combustible wood framing is
- Gas water heaters shall not be installed in a bedroom, closet, bathroom or utility room unless is a direct vent appliance or complies with Sec. 2307.

MECHANICAL GENERAL NOTES

- THE TOTAL INSTALLATION SHALL COMPLY WITH ANY AND ALL REQUIREMENTS OF THE LEGALLY CONSTITUTED AUTHORITIES HAVING JURISDICTION INCLUDING 2019 CBC (CALIFORNIA BUILDING CODE), 2019 CMCPCC (CALIFORNIA MECHANICAL AND PLUMBING CODE) AND THE 2019 TITLE 24 ENERGY CODE.
- THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID AND SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS UNDER WHICH HE WILL BE REQUIRED TO WORK.
- ALL INDICATED DIMENSIONS ARE APPROXIMATE AND ARE GIVEN FOR ESTIMATE PURPOSES ONLY. BEFORE PROCEEDING WITH THE WORK THIS CONTRACTOR SHALL CAREFULLY CHECK AND VERIFY ALL DIMENSIONS, SIZES, REQUIRED CLEARANCES AND SHALL ASSUME FULL RESPONSIBILITY FOR THE FITTING OF ALL EQUIPMENT AND MATERIALS HEREIN REQUIRED TO OTHER PARTS OF THE WORK OF OTHER TRADES. DUCT DIMENSIONS SHOWN ON PLANS ARE NET INSIDE CLEAR.
- THE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC TO THE EXTENT THAT ALL OFFSETS, BENDS, SPECIAL FITTINGS AND LOCATIONS ARE NOT EXACTLY LOCATED. ALL DUCTWORK DIMENSIONS SHOWN ON THE DRAWINGS ARE NET INSIDE DIMENSIONS. DO NOT FABRICATE DUCTWORK FROM THESE DRAWINGS. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR SUPPLYING SHOP DRAWINGS WHICH REFLECT THE PROPOSED INSTALLATION. THE SHOP DRAWINGS MUST BE APPROVED BY THE ENGINEER PRIOR TO ANY SHEET METAL FABRICATION. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ACCURATE AS-BUILT DRAWINGS AT THE COMPLETION OF THE PROJECT AND SUBMITTING THEM TO THE ENGINEER AND OWNER.
- IN THE PREPARATION OF THESE DOCUMENTS, CERTAIN ASSUMPTIONS ARE MADE REGARDING EXISTING CONDITIONS. SOME OF THESE ASSUMPTIONS MAY NOT BE VERIFIABLE WITHOUT EXPENDING ADDITIONAL SUMS OF MONEY OR DESTROYING OTHERWISE ACCURATE OR SERVICEABLE PORTIONS OF EXISTING BUILDINGS AND/OR EQUIPMENT. THEREFORE, THE ENGINEER SHALL NOT BE HELD RESPONSIBLE FOR ANY CHANGES OR ADDITIONAL COSTS INCURRED DUE TO EXISTING CONDITIONS.
- THE CONTRACTOR SHALL COMPLY WITH ALL CONTRACT DOCUMENTS IN LAYING OUT HIS WORK AND EQUIPMENT. HE SHALL COORDINATE THE WORK OF THIS SECTION WITH THE WORK OF OTHER TRADES AND ALL JOB CONDITIONS.
- PROVIDE MANUAL VOLUME DAMPERS AT UPSTREAM PORTION OF ALL TERMINAL AIR BRANCHES. THESE SHALL BE OF THE LOCKING DAMPANT TYPE, WHERE LOCATED OVER SLATED OR HARD CEILING, PROVIDE BUREAU-DYNE ANGLE GEAR DRIVE OR BOWDEN CABLE CONTROL SYSTEM OR PROVIDE UNITED ENERTECH POWERBALANCE SYSTEM REMOTE PLATE LOCATIONS TO BE LOCATED AS DETERMINED BY ARCHITECT.
- PROVIDE MINIMUM 1" ACOUSTICAL LINING IN ALL DUCTWORK WITHIN 10 FEET OF ALL AIR MOVING EQUIPMENT. PROVIDE BUREAU-DYNE FLEXIBLE CONNECTION AT ALL DUCT AT EQUIPMENT LOCATIONS.
- DUCTS IN AN UNCONDITIONED SPACE OR EXTERIOR DUCT WORK SHALL HAVE A MIN. OF R-8 INSULATION. DUCTS WITHIN THE CONDITIONED ENVELOPE ABOVE A CEILING SHALL HAVE A MIN. OF R-4.2 INSULATION. EXTERIOR DUCTWORK SHALL NOT HAVE INSULATION EXPOSED TO THE ENVIRONMENT.
- WHERE NOT SPECIFICALLY INDICATED OTHERWISE, ALL DUCTWORK AND EQUIPMENT SHALL BE SUPPORTED PER THE SMACNA GUIDELINES FOR SEISMIC RESTRAINT AND CURRENT APPLICABLE UNIFORM MECHANICAL CODE.
- TESTING, ADJUSTING, AND BALANCING (TAB) OF THE AIR CONDITIONING SYSTEMS AND RELATED ANCLLARY EQUIPMENT WILL BE PERFORMED BY A CERTIFIED, INDEPENDENT THIRD PARTY, AACB AGENCY PROCURED BY THE MECHANICAL CONTRACTOR. A COMPLETE AIR-BALANCE REPORT TO BE SUBMITTED TO THE ADMINISTRATIVE AUTHORITY AND TO THE MECHANICAL ENGINEER AND APPROVED PRIOR TO FINAL PAYMENT.
- AIR HANDLING DUCT SYSTEMS SHALL BE CONSTRUCTED, INSTALLED AND INSULATED AS PROVIDED IN CHAPTER 6 OF 2019
- MATERIALS EXPOSED WITHIN DUCTS OR PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE FLAME SPREAD INDEX NOT GREATER THAN 25 AND A SMOKE DEVELOPED INDEX NOT GREATER THAN 50 (2019 CMC SECTION 602.2)
- UNLESS OTHERWISE STATED, MAXIMUM LENGTH FOR FLEXIBLE DUCTWORK SHALL NOT EXCEED FIVE FEET (5'-0"). ALUMINUM FLEX DUCTWORK WILL NOT BE ALLOWED ON ANY PORTION OF THE DUCTWORK SYSTEM.
- ANY SUBSTITUTION MADE BY THE CONTRACTOR THAT IS DIFFERENT FROM WHAT IS SPECIFIED ON THE DRAWINGS SHALL BE CLEARLY INDICATED ON THE SUBMITTAL AS TO ALL THAT IS BEING SUBSTITUTED.

HVAC LEGEND

SYMBOL	ABBREVIATIONS	DESCRIPTION
		SQ. RECT. OR ROUND DUCT AS NOTED
		DUCT WITH ACOUSTICAL LINER
		EXIST. DUCT OR EQUIP. TO REMAIN
		EXIST. DUCT OR EQUIP. TO BE REMOVED
		FLEXIBLE DUCT
		CEILING DIFFUSER, SUPPLY
	CR / CE	CEILING REGISTER, RETURN & EXHAUST
		SECTION THROUGH DUCT
		DUCT DOWN
		DUCT ACCESS DOOR
		DUCT WITH TURNING VANES
	DETAIL No. SHEET No.	DETAIL REFERENCE
	EQUIPMENT ID. No.	EQUIPMENT REFERENCE
	MVD	MANUAL VOLUME DAMPER
	S	SWITCH
	T	THERMOSTAT
	CFM	CUBIC FEET OF AIR PER MINUTE
	O.S.A.	OUTSIDE AIR
	(N)	NEW
	(E) OR EXIST.	EXISTING
	30X10	INDICATES SQUARE DUCT (INCHES)
	10ø	INDICATES ROUND DUCT (INCHES)
	P.O.C.	POINT OF CONNECTION
	P.O.D.	POINT OF DEMOLITION

ANCHORAGE AND BRACING NOTES

- PIPES, DUCTS AND CONDUITS SHALL BE SUPPORTED AND BRACED PER THE SMACNA "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING SYSTEMS", THE "SUPERSTRUT SEISMIC RESTRAINT SYSTEM" FOR PIPES AND CONDUITS ONLY.

AIR DISTRIBUTION SCHEDULE

SYMBOL	DESCRIPTION	MANUFACTURER & MODEL NO.	FINISH	REMARKS
	CEILING DIFFUSER			EXISTING SUPPLY

APPLICABLE CODES

- 2019 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
- 2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. (IBC WITH AMENDMENTS)
- 2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (NEC WITH AMENDMENTS)
- 2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R. (UMC WITH AMENDMENTS)
- 2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. (UPC WITH AMENDMENTS)
- 2019 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. (IFC WITH AMENDMENTS)
- 2019 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
- 2019 TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
- 2019 CALIFORNIA ENERGY CODE (PART 6, TITLE 24 C.C.R.)
- 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CGBSG), PART 11, TITLE 24 C.C.R.
- 2018 INTERNATIONAL BUILDING CODE (IBC)
- 2018 INTERNATIONAL MECHANICAL CODE (IMC)
- 2018 INTERNATIONAL PLUMBING CODE (IPC)

MECHANICAL BASIS OF DESIGN

- CALIFORNIA VENTILATION CRITERIA:
 - COMPLY WITH CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARD.
 - GREATER OF 15 CFM/PERSON OR 0.15 CFM/SF
 - EXHAUST TO OUTDOORS (MINIMUM RATES)
- BUILDING ENVELOPE:
 - REFER TO THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ENVELOPE REQUIREMENTS
 - ALL ENVELOPE COMPONENTS SHALL MEET CALIFORNIA ENERGY CODE MINIMUM PRESCRIPTIVE CRITERIA
- DUCTWORK DESIGN CRITERIA (MAXIMUM ALLOWABLE AIR PRESSURE DROPS AND AIR VELOCITIES) TO MEET HIGH EFFICIENCY OPERATION WITH MINIMAL ACOUSTICAL NOISE. DUCT STATIC PRESSURE FRICTION LOSS SHALL NOT EXCEED 0.2" PER 100 FEET IN MECHANICAL ROOMS AND SHAFTS. LOW PRESSURE SUPPLY AND EXHAUST DUCT STATIC PRESSURE FRICTION LOSS BASED ON A MAXIMUM OF 0.08" PER 100 FEET. LOW PRESSURE RETURN DUCT STATIC PRESSURE FRICTION LOSS BASED ON A MAXIMUM OF 0.05" PER 100 FEET.
 - IN ADDITION, MAXIMUM SUPPLY AND EXHAUST DUCT AIR FLOW VELOCITIES, REGARDLESS OF PRESSURE DROP, SHALL NOT EXCEED THE FOLLOWING CRITERIA:
 - MAINS ABOVE CEILING: 1750 FPM
 - MAINS ABOVE OPEN OCCUPIED SPACES: 1450 FPM
 - BRANCHES ABOVE CEILING: 1400 FPM
 - BRANCHES ABOVE OPEN OCCUPIED SPACES: 1150 FPM
 - RUN-OUTS TO DIFFUSERS: 725 FPM
 - IN SHAFTS: 2500 FPM
 - IN MECHANICAL ROOMS: 3000 FPM
- SEISMIC:
 - ANCHORAGE AND RESTRAINTS ARE A DEFERRED SUBMITTAL BY THE CONTRACTOR AND MUST BE COORDINATED WITH STRUCTURAL ENGINEER AND AUTHORITY HAVING JURISDICTION.

DUCT SUPPORT SCHEDULE

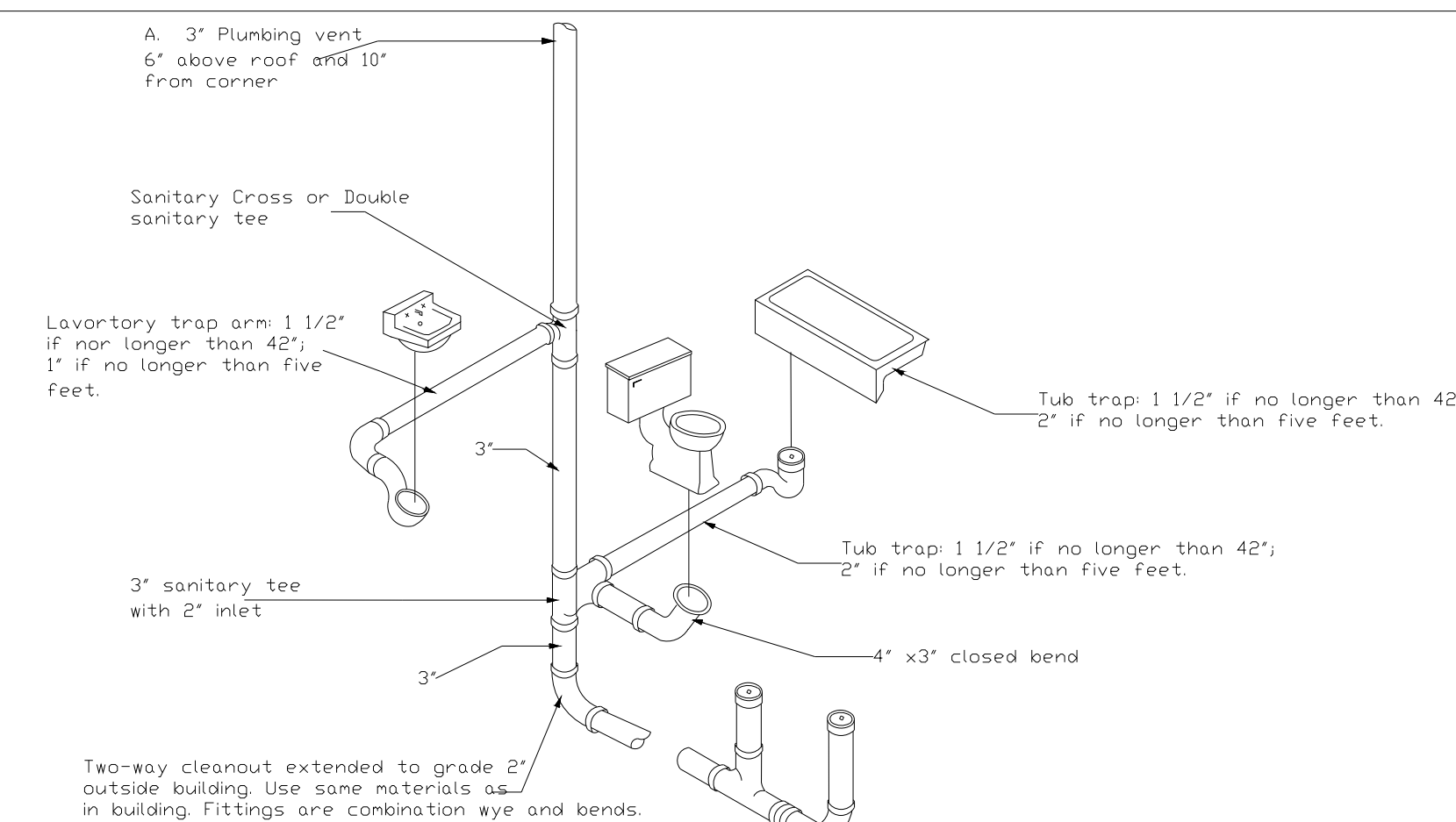
MAX. OF DUCT PER METER/IN.	RECTANGULAR DUCT		ROUND DUCT	
	STRAP	MAX. LOAD EACH HANGER/LBS.	DIAMETER /INCHES	MAX. LOAD EACH HANGER/LBS.
P/2 =72	1"X 20 GA.	20	UP TO 20"	1"X 20 GA. 20
P/2 =96	1"X 18 GA.	30	21" TO 36"	1"X 18 GA. 30

NOTE:

- NO BRACING REQUIRED IF DUCT IS SUSPENDED 12 INCHES OR LESS IN LENGTH.
- FOR TRANSVERSE AND LONGITUDINAL BRACING, FOLLOW 2008 "SMACNA SEISMIC RESTRAINT MANUAL GUIDELINES (TABLE 8)

DIFFUSER RUNOUT SCHEDULE

DIFFUSER NECK SIZE	CFM RANGE	
	MIN.	MAX.
6	0	
8	111	
10	201	
12	401	
14	501	
22x22	701	

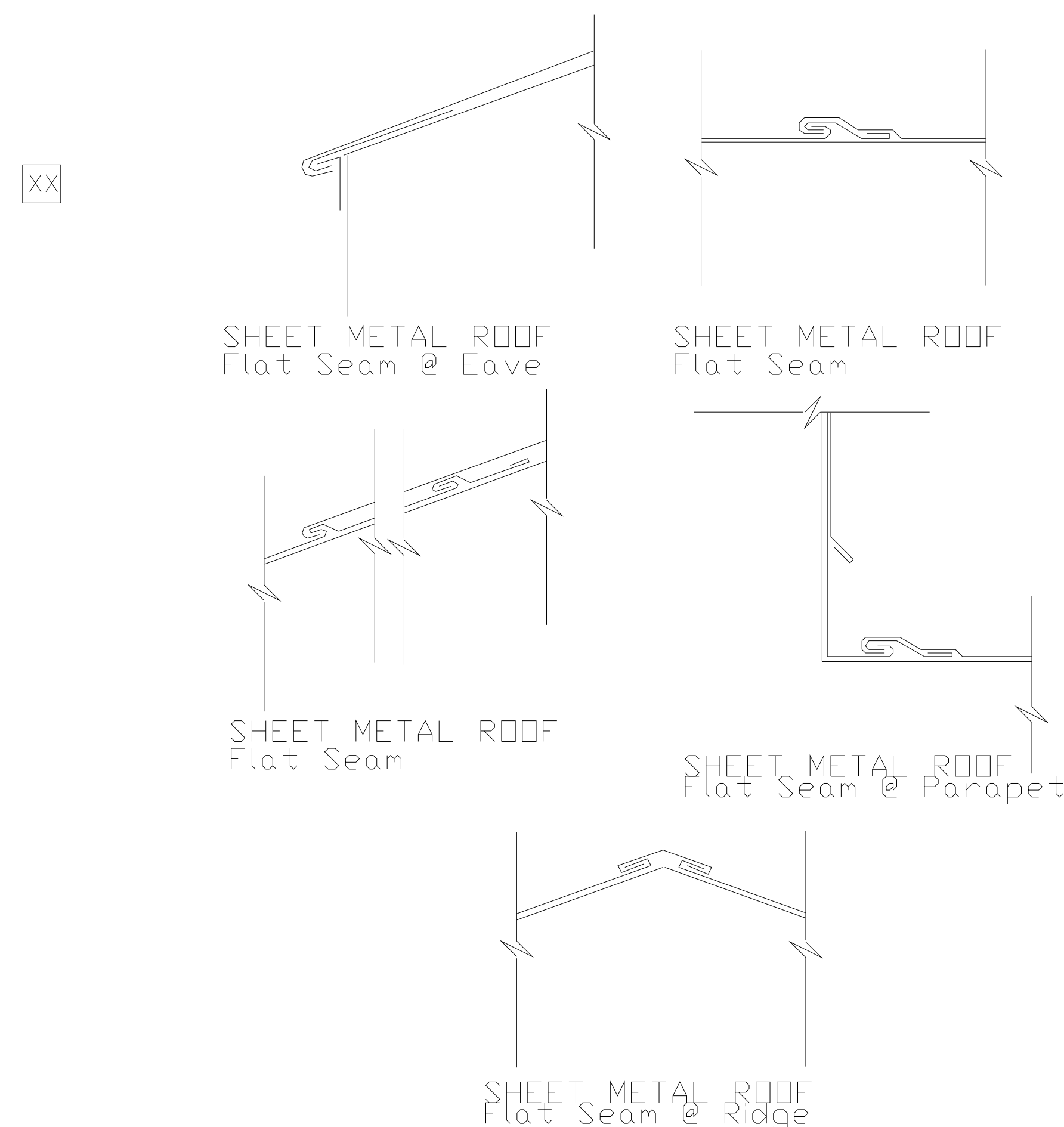


ENLARGED BATH PLUMBING

SHEET METAL ROOFING:

TYPICAL FRAMED ROOF(METAL)
SEE STRUCTURAL SHEET S-0.30 FOR ATTACHMENT DETAIL

ROOF: CUSTOMER CHOICE OF METAL ROOF,
WITH #15 LB ROOFING PAPER OR BETTER BEFORE
INSTALLING ROOF.



NOTATION CHECKLIST,
SAMPLE NOTES
FLAT SEAM
BATTEN
FLASHING
STANDING SEAM
SNAP CAP ANCHOR CLIP
CLEAT
METAL ROOFING
ROOFING FELT
ROOF DECK/INSULATION

ROOF CONSTRUCTION
PREFAB RIDGE PIECE
METAL ROOFING HIP COVER
PLYWOOD SHEATHING
MTL. ROOFING, 1-1/2" w. X 2" H. BATTEN @ 24" O.C.
TYPE "W" VALLEY CONT. FLASH. BY MTL.
ROOFING MFR.
CLOSURE BY MTL. ROOFING MFR.
PEAK LAP BY MTL. ROOFING MFR.
26 GA. GALV. MTL. ROOFING, CLIP & SEAM

EXTERIOR ELEVATION KEY NOTES:

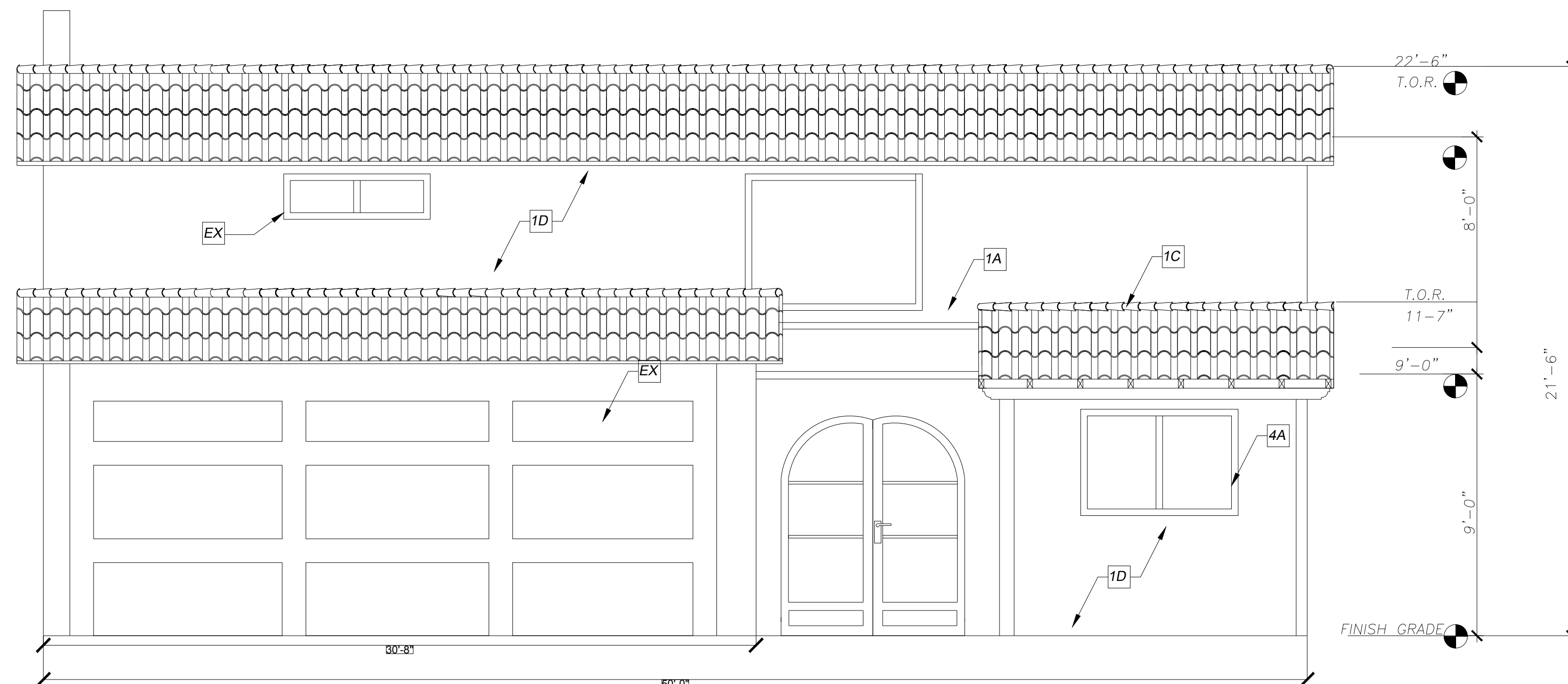
MATERIALS, FINISHES AND COLORS TO
MATCH EXISTING

1. EXTERIOR FINISHES:

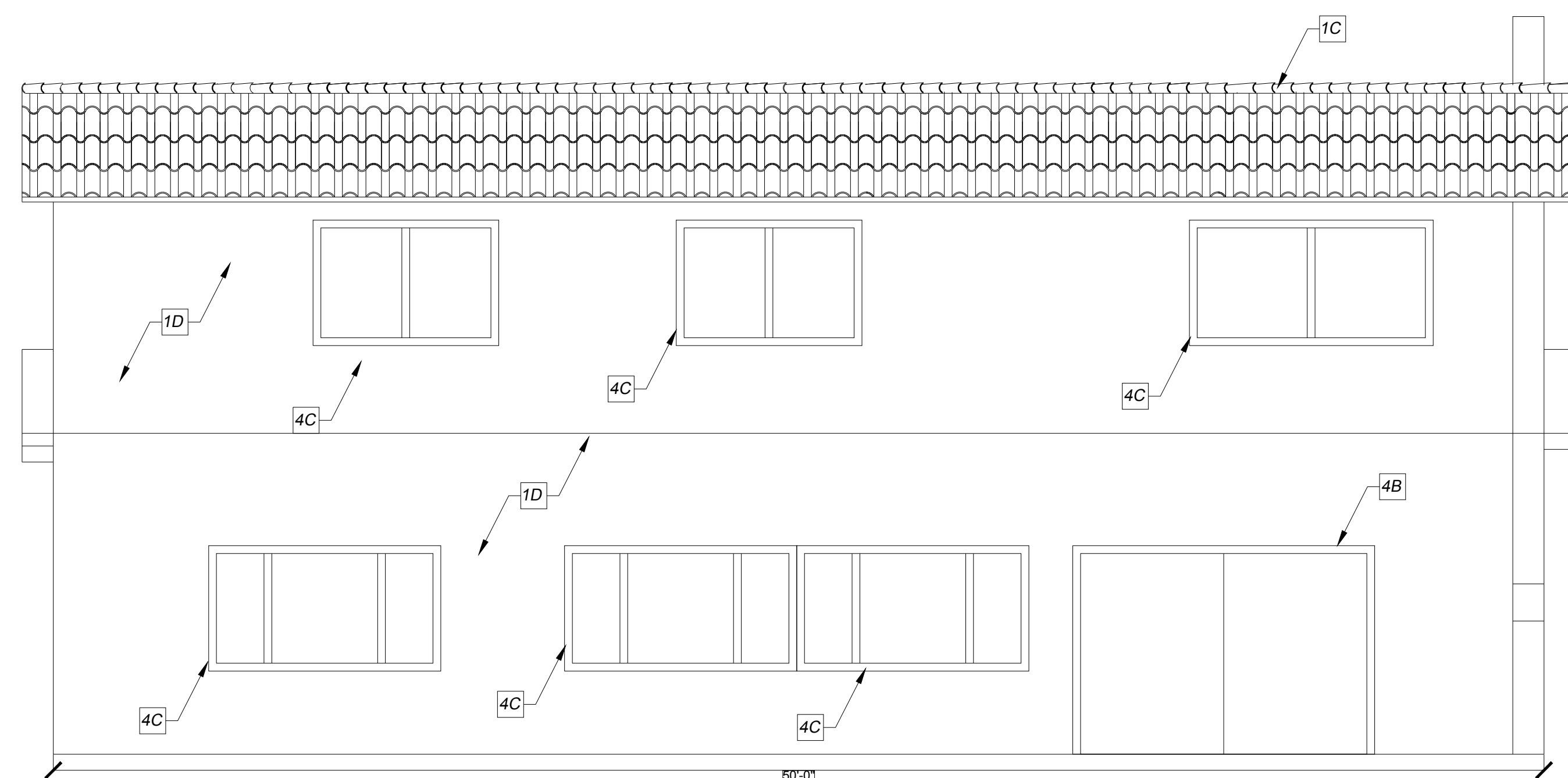
- 1A MATCH EXISTING ROOFING MATERIALS
- 1C EXISTING CLASS "A" ROOFING TO REMAIN
- 1D EXISTING STUCCO TO REMAIN.

4. WINDOWS & DOORS:

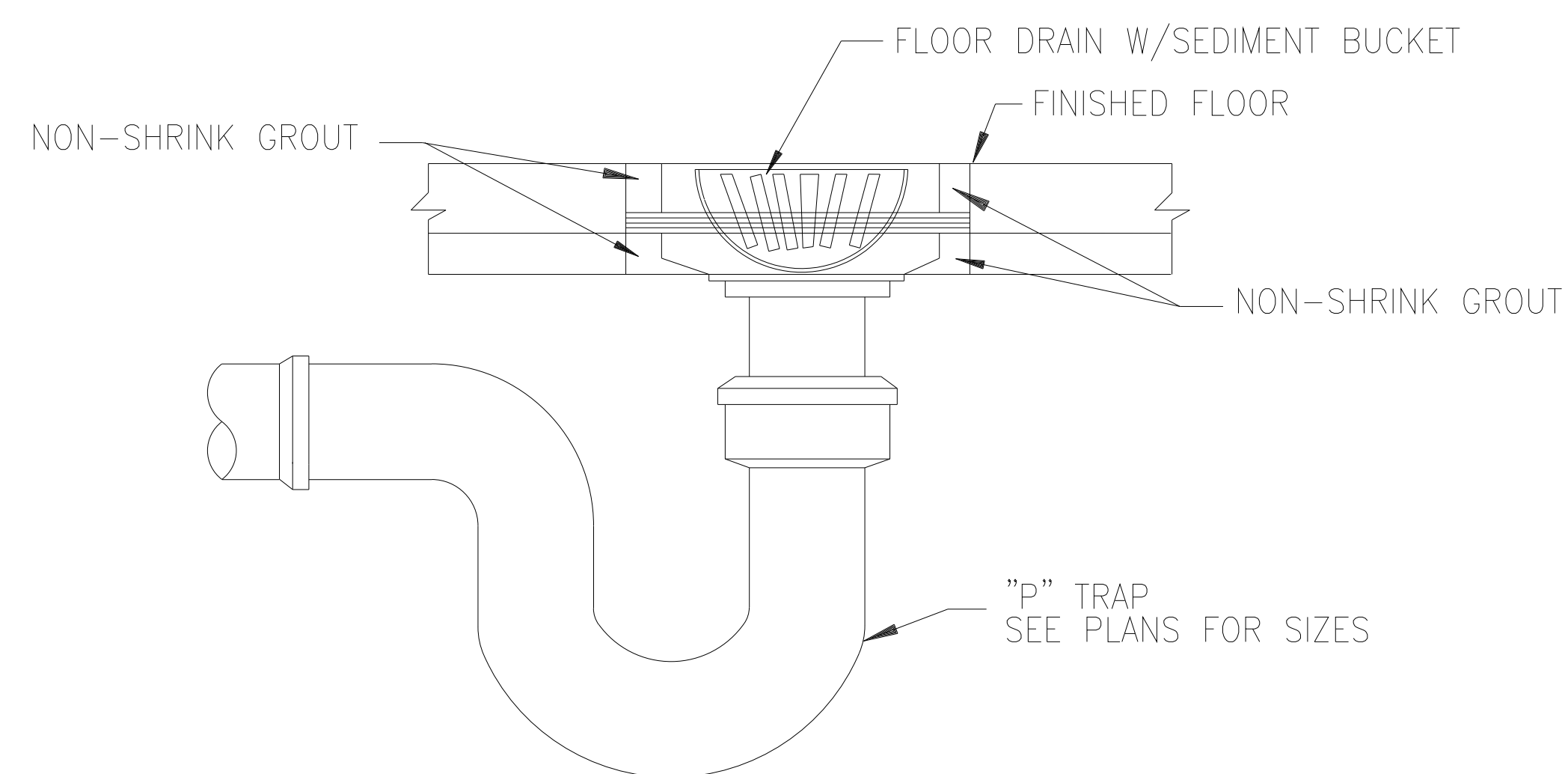
- 4A SLIDER WINDOW DUAL PANE
- 4B EXISTING SLIDING PATIO DOOR TO REMAIN
- 4C EXISTING WINDOW TO REMAIN



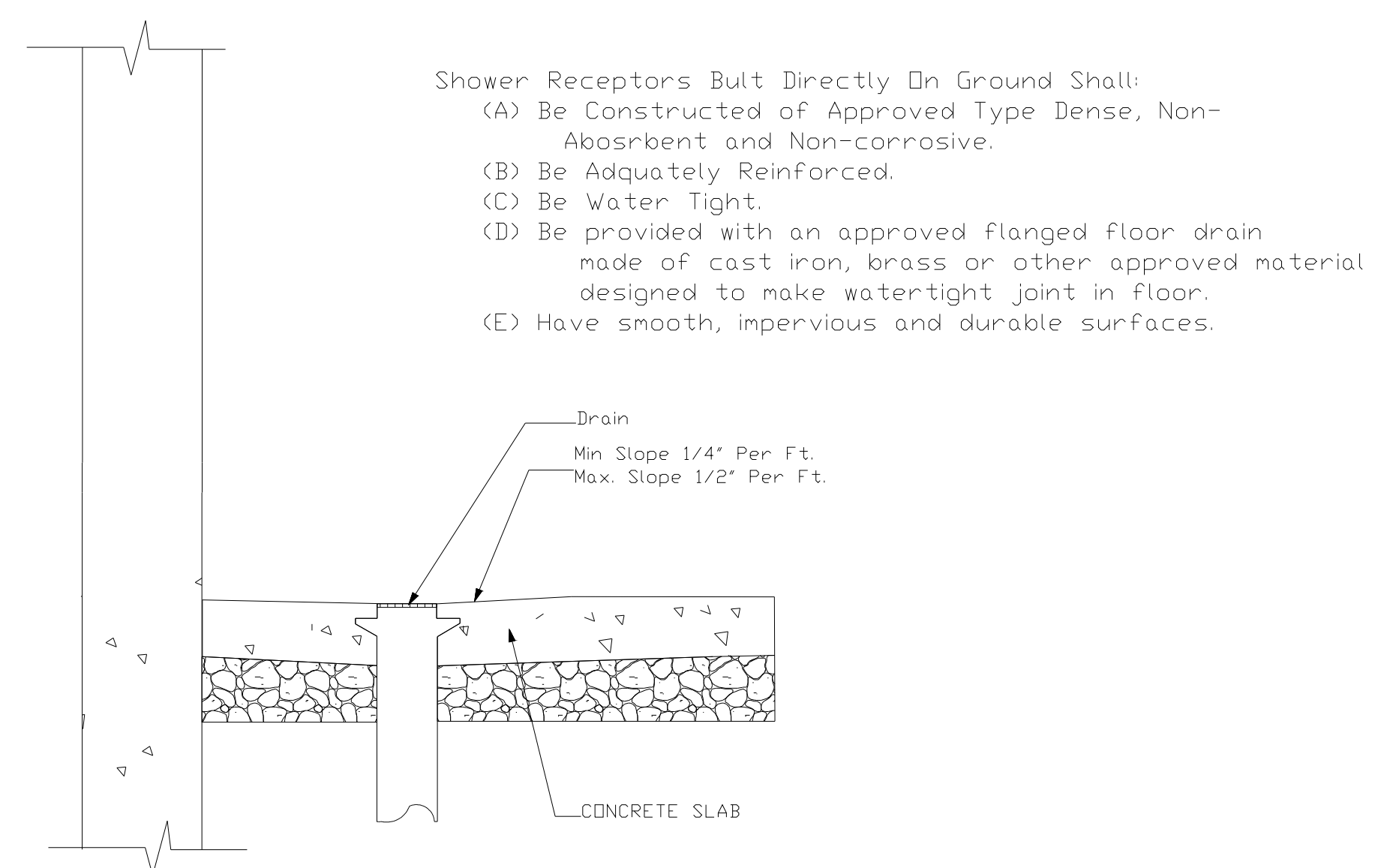
PROPOSED FRONT ELEVATION



REAR ELEVATION



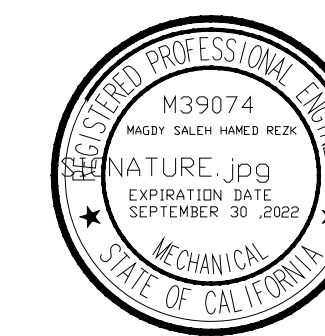
FLOOR DRAIN DETAIL 1
N.T.S.



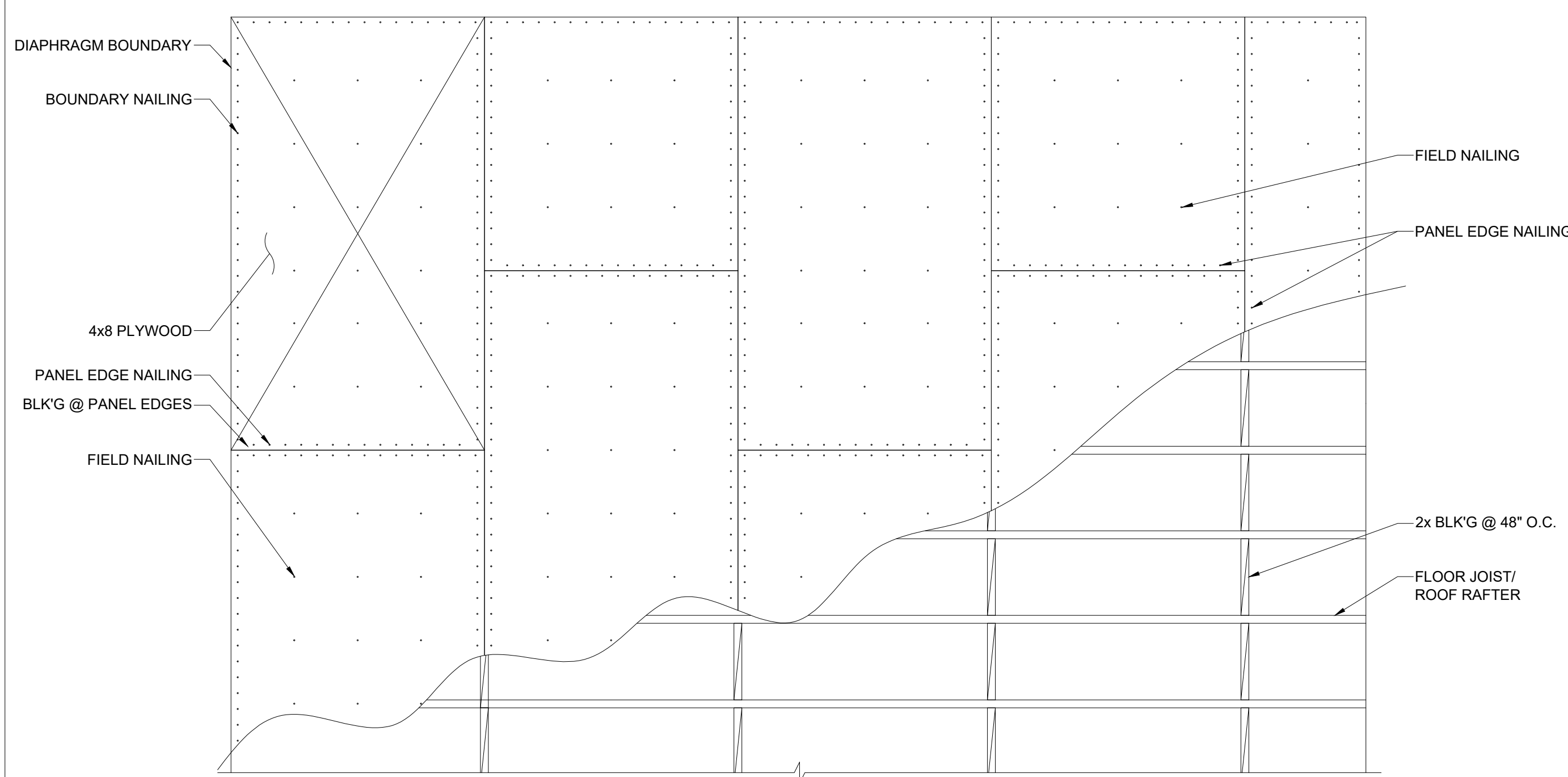
FLOOR DRAIN DETAIL 2
N.T.S.

SCALE : AS NOTED

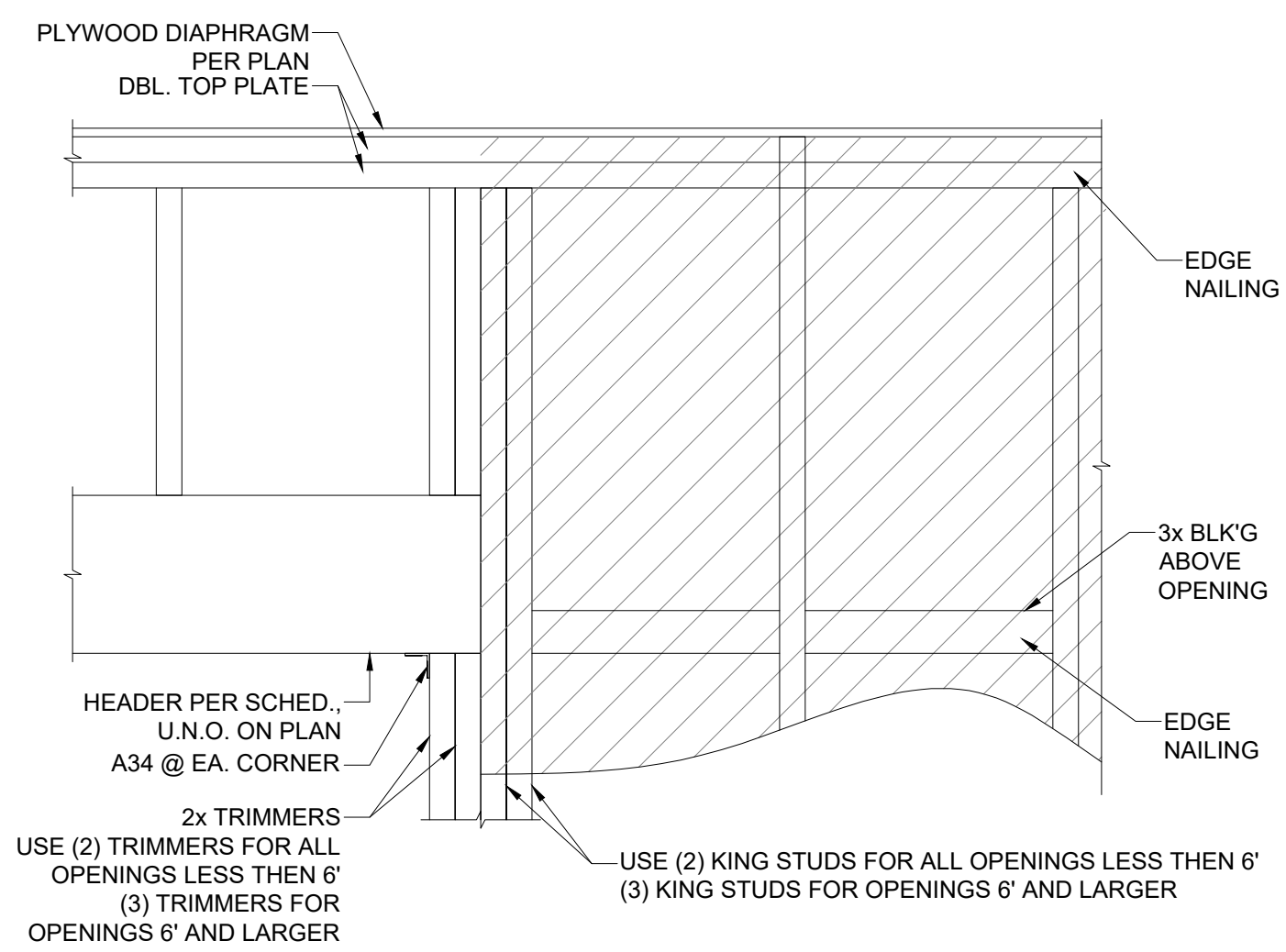
DATE 03/25/2021



SHEET TITLE
CONSTRUCTION
DETAILS



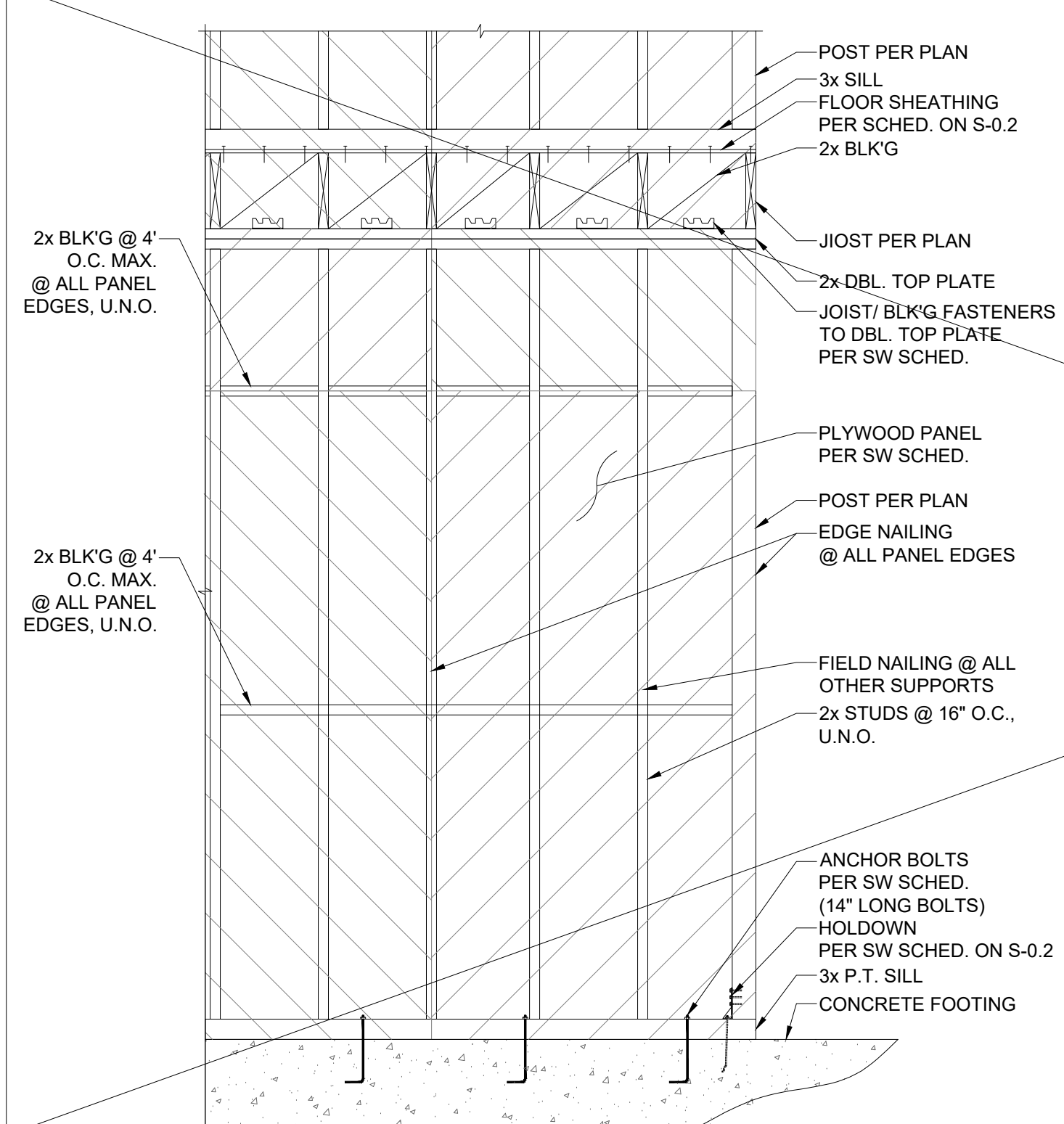
LOCATION	SHEATHING	NAILING
ROOF	EXISTING, NOT A PART.	EXISTING, NOT A PART.
FLOOR	EXISTING, NOT A PART.	EXISTING, NOT A PART.



HEADER SCHEDULE (WHERE NOT SPECIFICALLY IDENTIFIED ON PLANS)	
4' OPENING	4x4
6' OPENING	4x6
8' OPENING	4x8
10' OPENING	4x10
12' OPENING	4x12

1 ROOF AND FLOOR DIAPHRAGM DETAIL

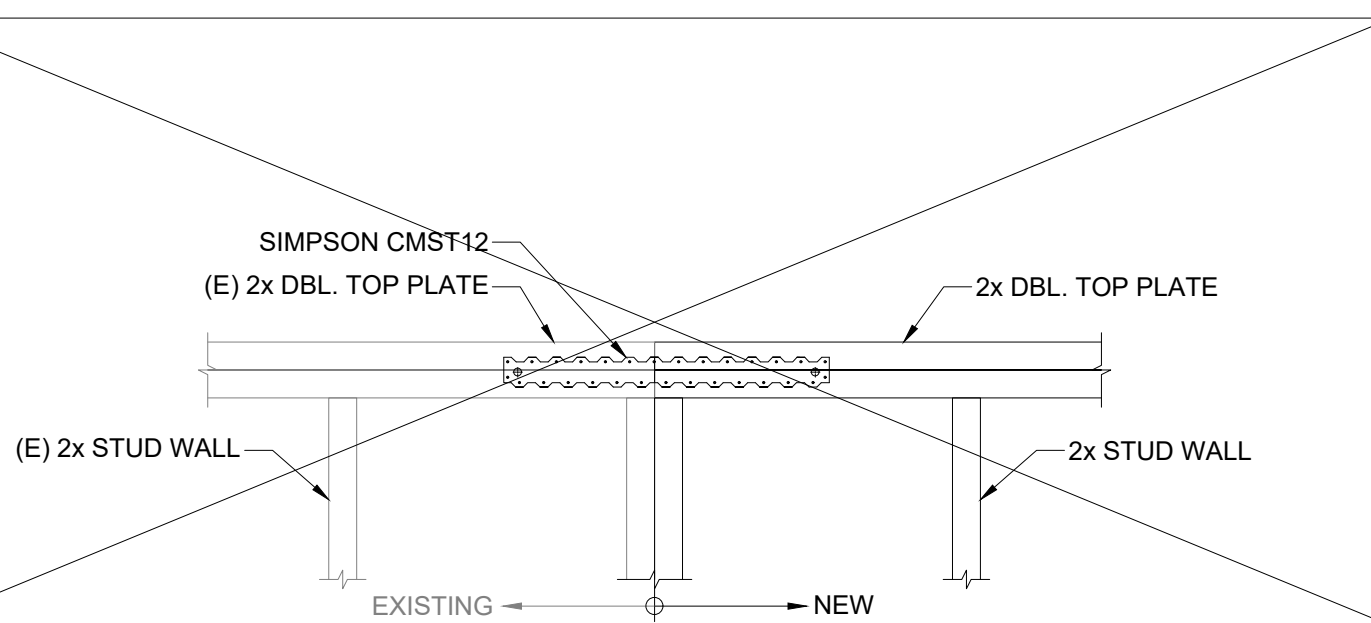
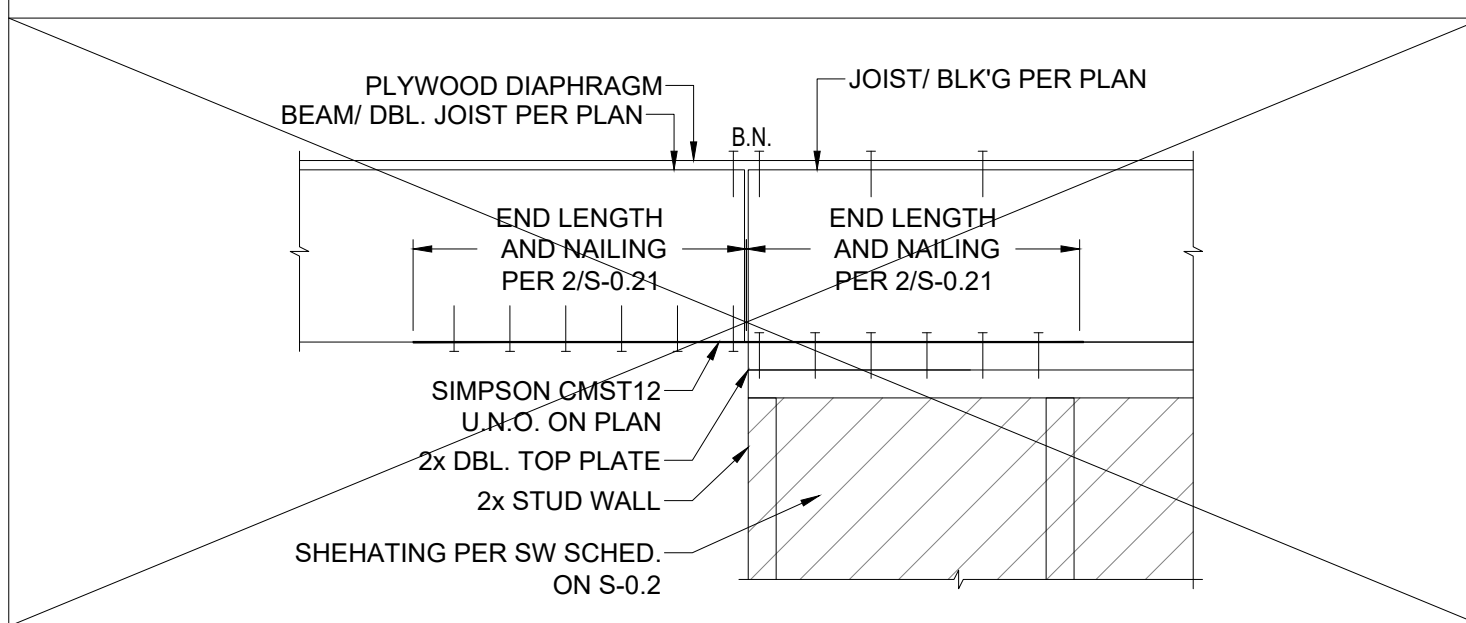
2 TYPICAL HEADER DETAIL AND SCHEDULE



Type	Sheathing/ Nailing	Grade	A35/LTP4 Spacing (in)	1/2" Lag Spacing (in)	5/8" Anchor Bolt Spacing (in)	LRFD Resistance (plf)
Type A	15/32" w/8d nails @6-6-12	Sheathing	24.0	31.0	48.0	300
Type B	15/32" w/8d nails @6-6-12	Sheathing	18.0	23.0	48.0	400
Type C	15/32" w/10d nails @6-6-12	Structural I	14.0	19.0	48.0	500
Type D	15/32" w/8d nails @4-4-12 ⁵	Sheathing	12.0	15.0	43.0	600
Type E	15/32" w/10d nails @4-4-12 ⁵	Structural I	10.0	13.0	36.0	700
Type F	15/32" w/10d nails @4-4-12 ⁵	Structural I	9.0	11.0	32.0	800
Type G	15/32" w/10d nails @3-3-12 ⁵	Structural I	8.0	10.0	28.0	900
Type H	15/32" w/10d nails @3-3-12 ⁵	Structural I	6.0	9.0	24.0	1060
Type I	15/32" w/10d nails @3-3-12 ^{4,5}	Structural I	8.0 ⁴	5.0	16.0	1600
Type J	15/32" w/10d nails @3-3-12 ^{4,5}	Structural I	6.0 ⁴	4.0	12.0	2000

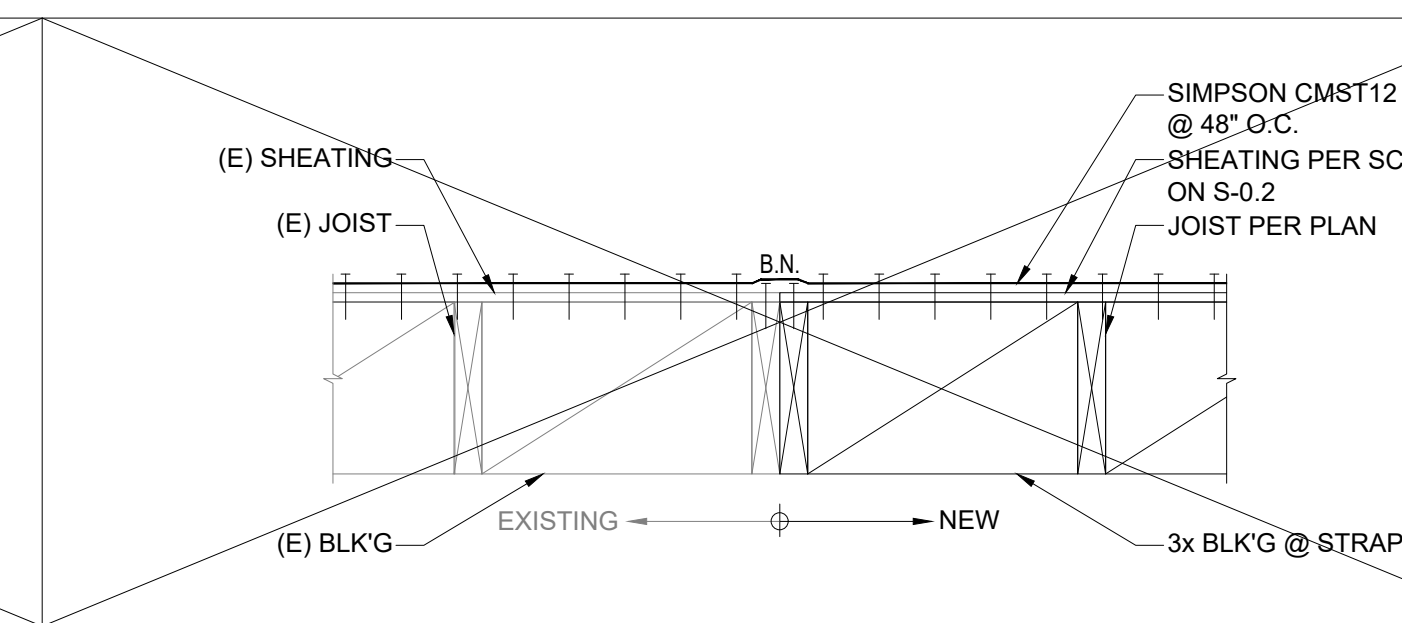
Notes:
 1. Lumber shall be DF-L with Specific Gravity of 0.50 min. All panel edges shall be fastened to 2-inch nominal or wider framing.
 2. Framing at adjoining edges shall be 3 or wider nominal. Nails shall be staggered in two lines along panel edges when nail spacing is 2" o.c., or when 10d common nails spaced 3" o.c. penetrate framing more than 1-5/8".
 3. Min two bolts per piece of sill plate and one located within 12" of each end of each sill plate. Placement of lag bolts: Min edge distance shall be 1.5D; Min end distance shall be 7D, Min spacing shall be 4D. Edge distances, end distances and spacing shall be sufficient to prevent splitting of wood. If splitting occurs, notify the engineer for an alternate product. Min lag screw embedment shall be 5".
 4. Type I and J shearwalls shall have plywood installed on both sides. Install A35/LTP4 staggered on both sides. Blocking and studs at panel edges shall be min 3x in thickness.
 5. Type B, C, D, E, F, G, H shearwalls shall have min. 3x studs at panel edges.

3 SHEARWALL DETAIL AND SCHEDULE

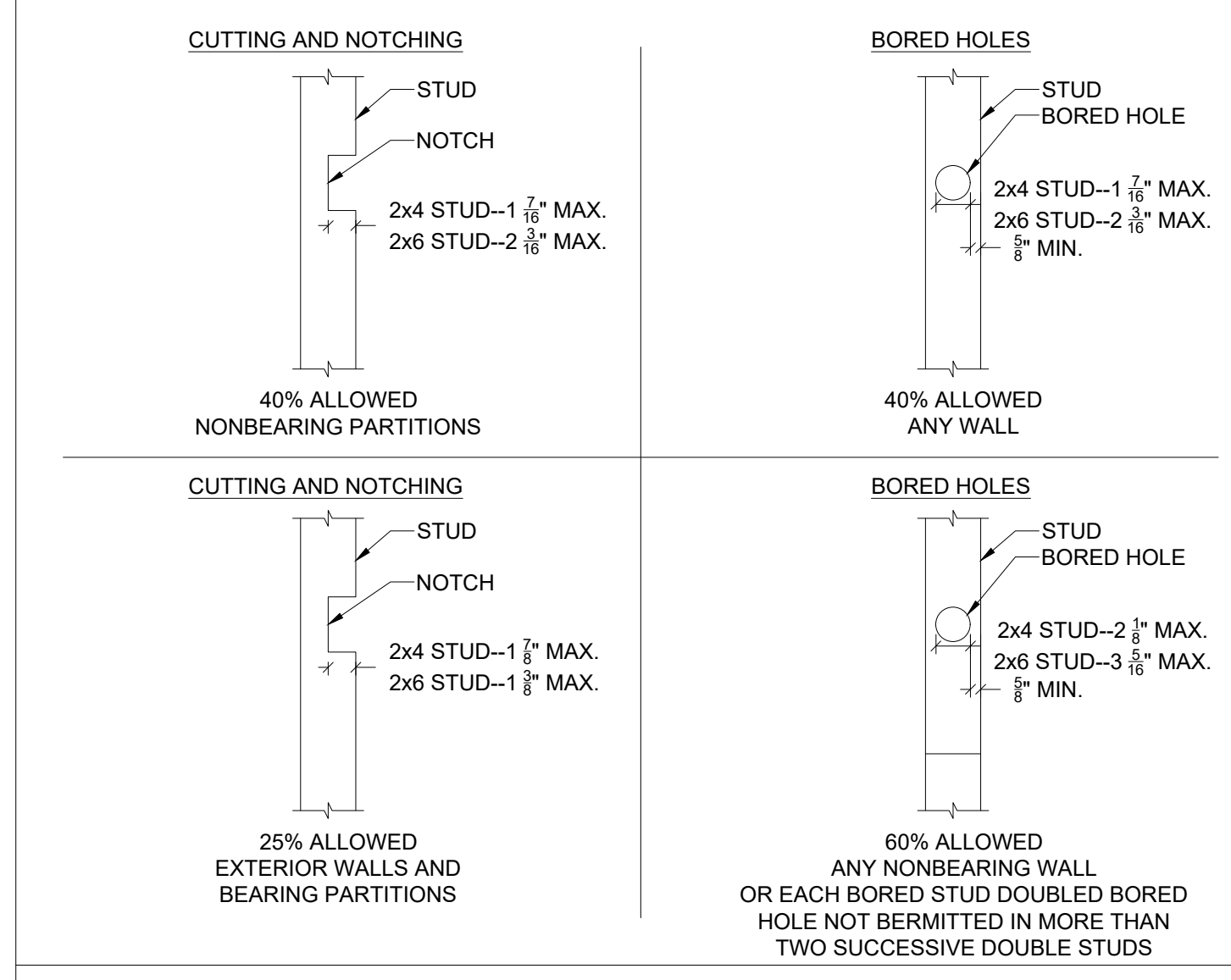


4 TYPICAL COLLECTOR STRAP DETAIL

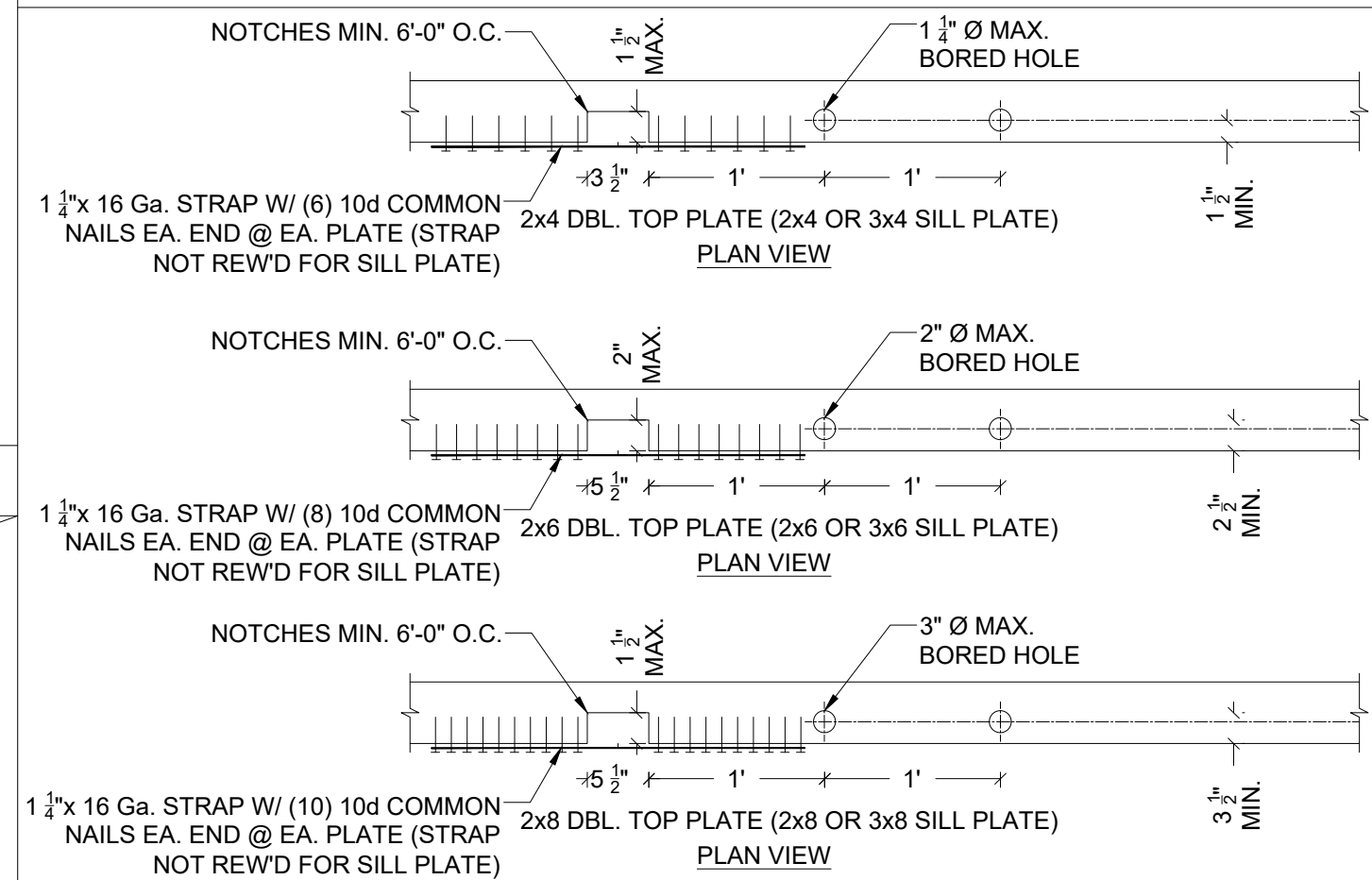
5 (E) TOP PLATE TO (N) TOP PLATE CONNECTION



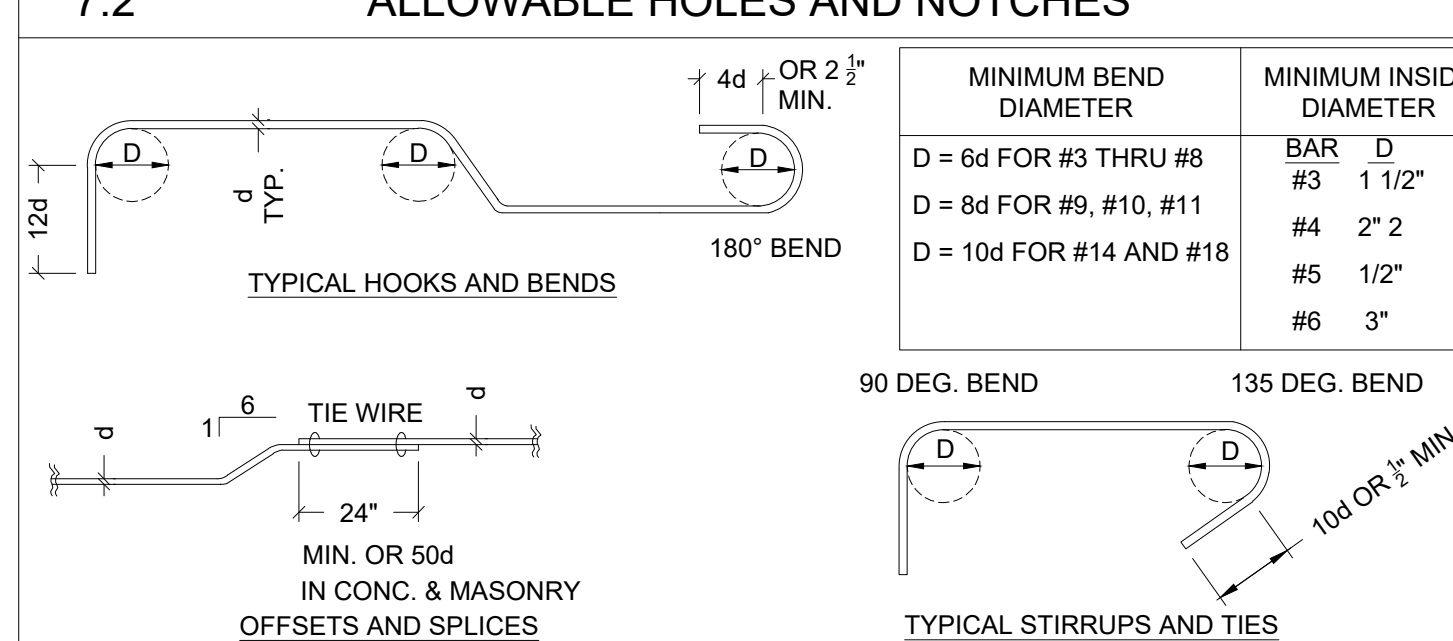
6 (E) DIAPHRAGM TO (N) DIAPHRAGM CONNECTION



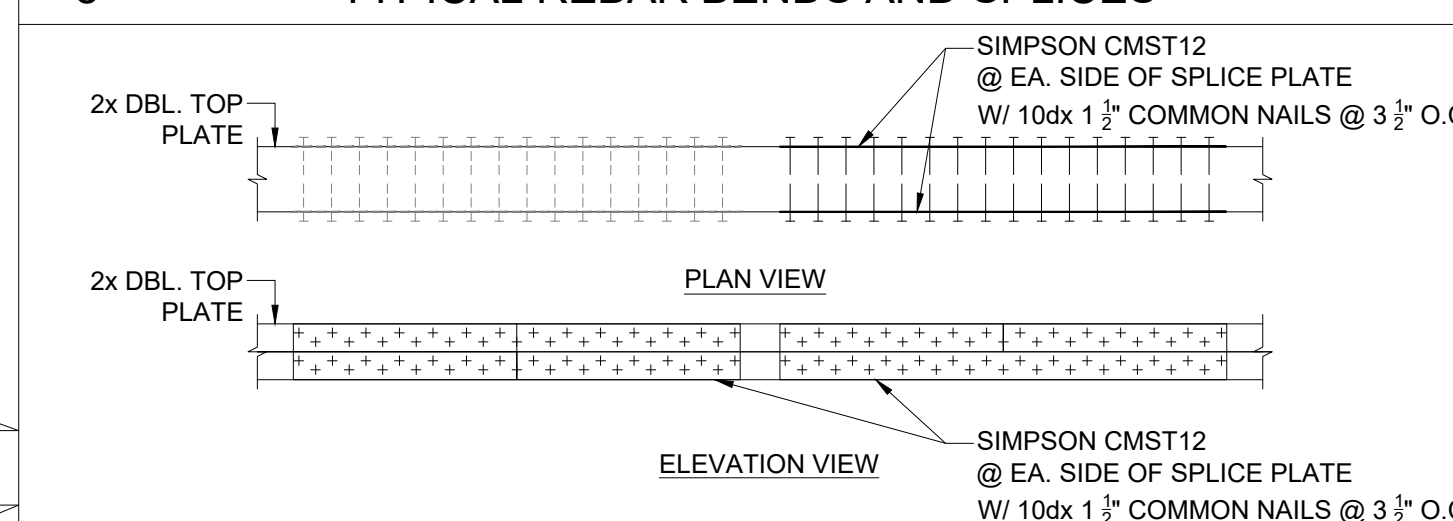
7.1 NOTCHING AND BORING LIMITS FOR WOOD STUDS



7.2 ALLOWABLE HOLES AND NOTCHES



8 TYPICAL REBAR BENDS AND SPLICES

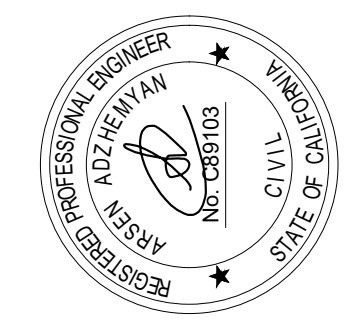


9 TOP PLATE SPLICE DETAIL

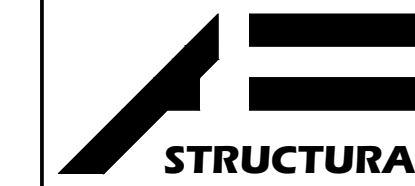
Bar	f _y = 2.5 KSI		f _y = 3.0 KSI		f _y = 4.0 KSI				
	Straight L _d (in)	Hooked L _d (in)	Straight Splice L _s (in)	Hooked Splice L _s (in)	Straight Splice L _s (in)	Hooked Splice L _s (in)			
#3	18	9	23.5	16.5	8.5	21.5	14.5	7.5	18.5
#4	24	12	31.5	22	11	28.5	19	9.5	25
#5	30	15	39	27.5	14	36	24	12	31
#6	36	18	47	33	16.5	43	28.5	14.5	37
#7	52.5	21	68.5	48	19.5	62.5	42	17	54
#8	60	24	78	55	22	71.5	47.5	19	62
#9	67.5	27	88	62	25	80.5	53.5	21.5	69.5
#10	75	30	97.5	68.5	27.5	89.5	59.5	24	77.5

Note: Clear cover and spacing of reinforcement shall satisfy ACI 318-14 25.4.2.2

10 REBAR DEVELOPMENT AND SPLICE SCHEDULE



PROJECT NO: 2021-064
DATE: 04/06/2021



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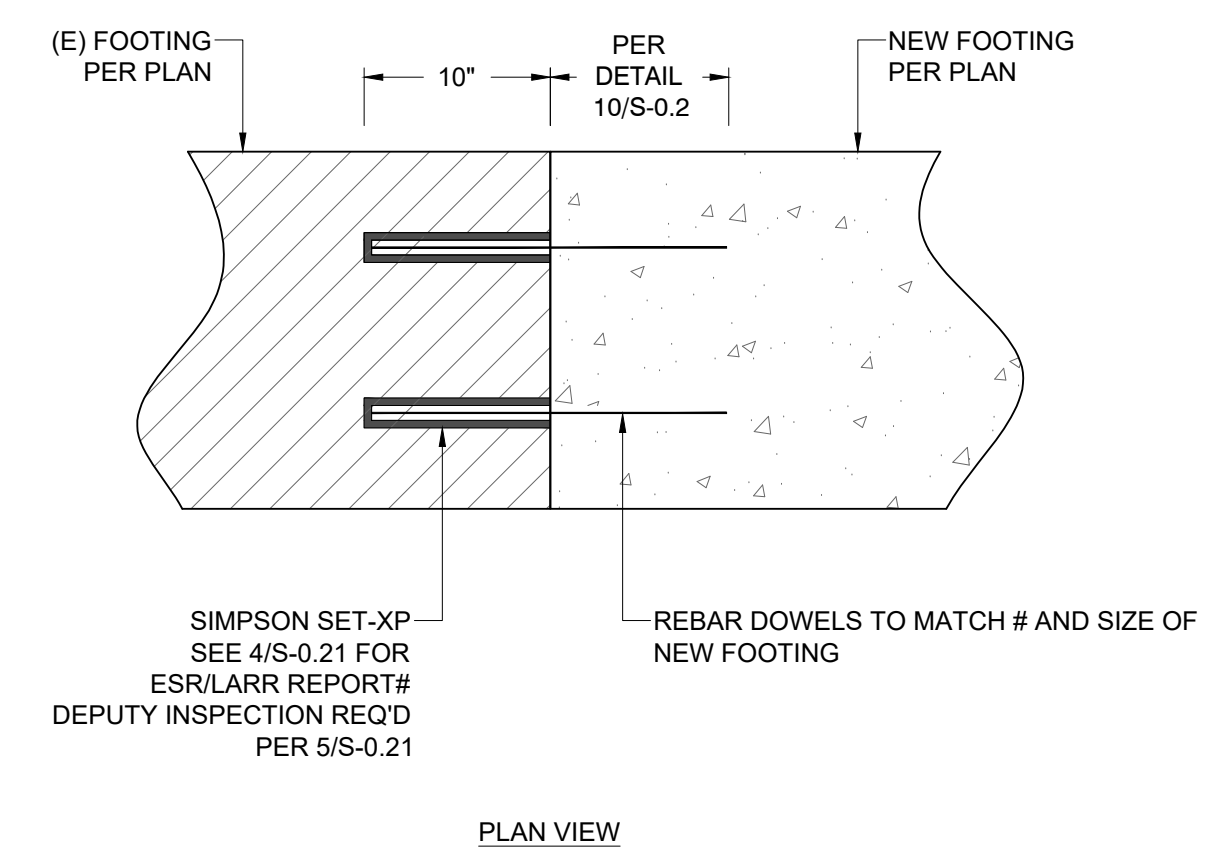
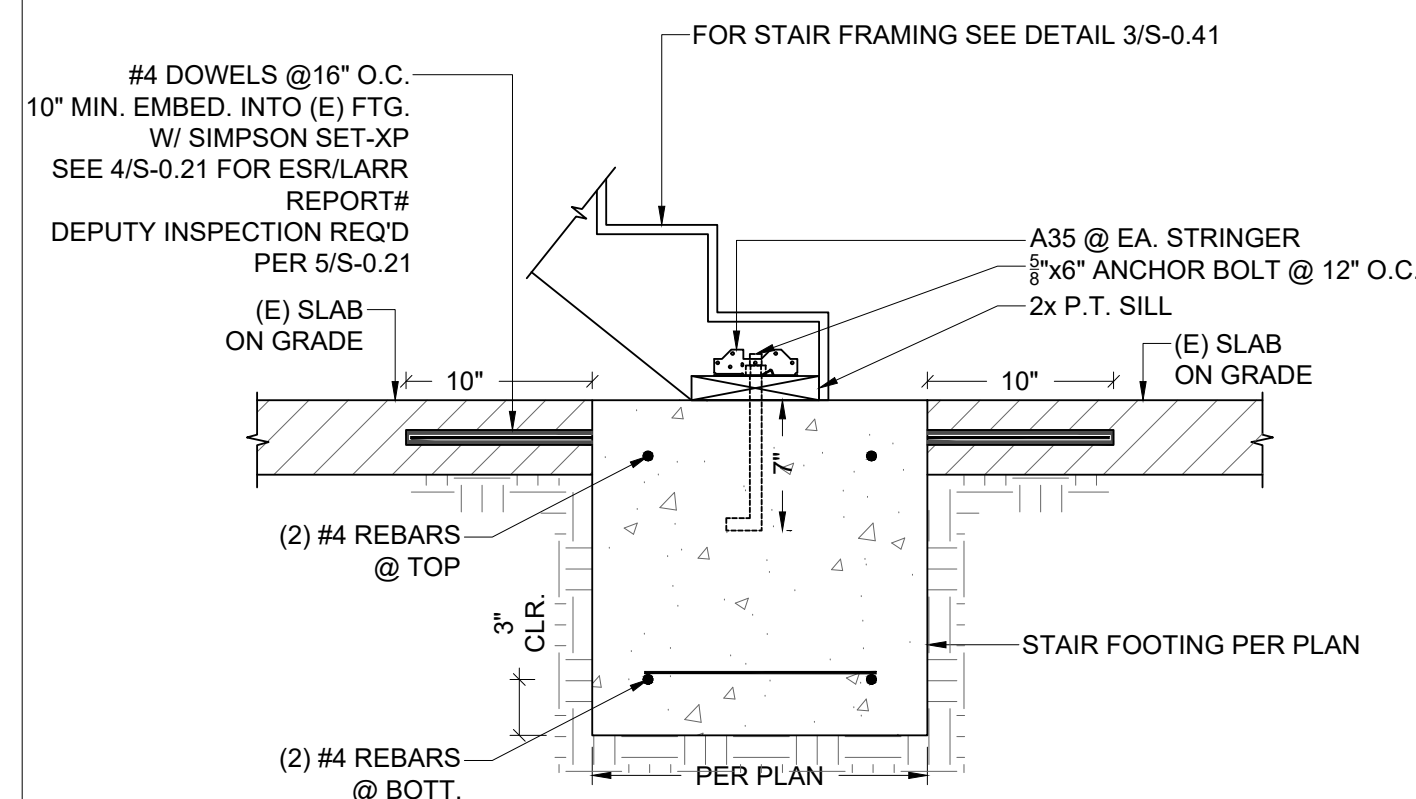
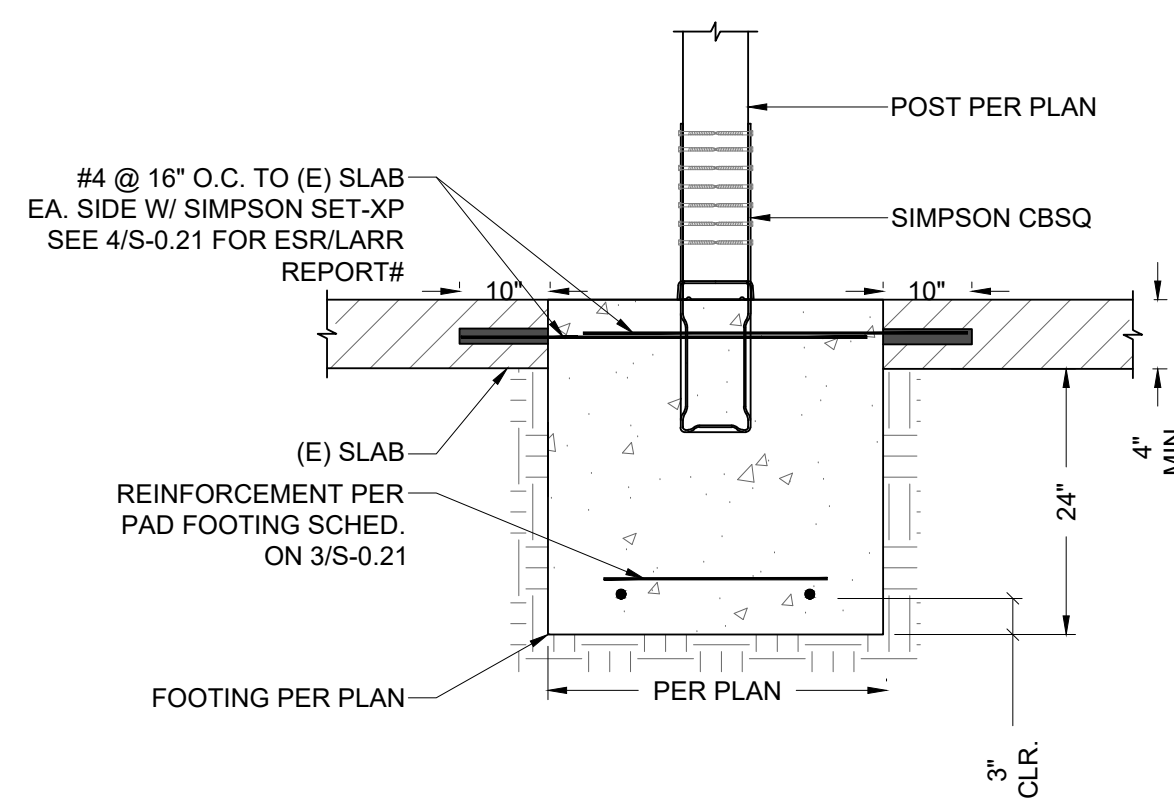
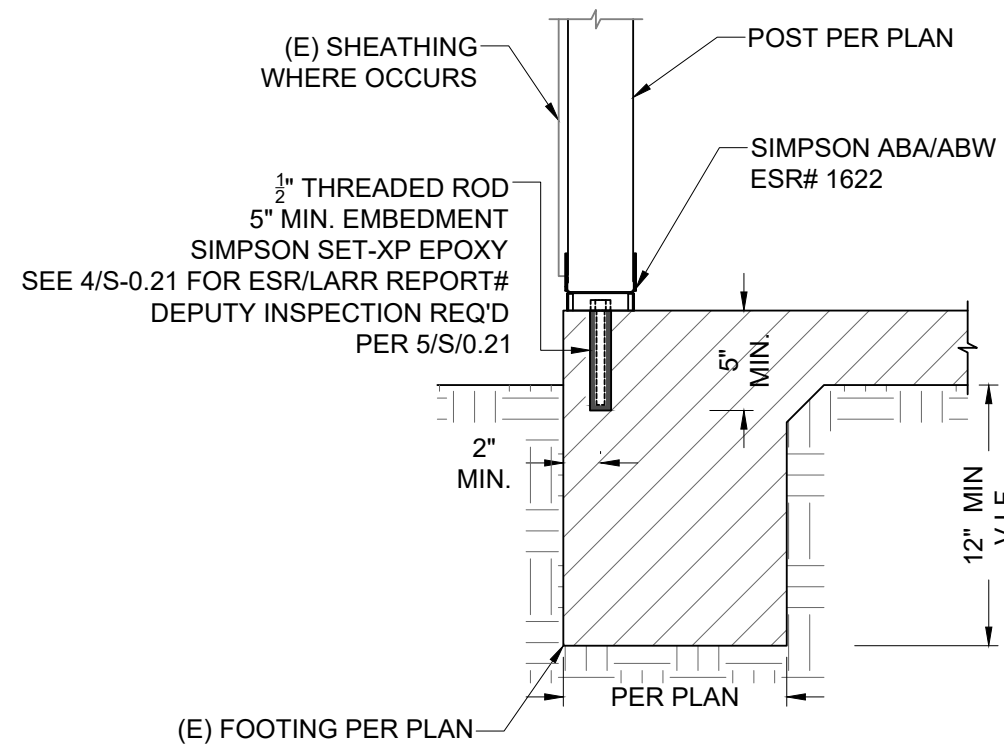
PREPARED FOR:
BEN HAMED
BY
A.A.

PROJECT ADDRESS:
4552 TRAFALGAR DR.
LA PALMA, CA
90623

REV	DATE	DESCRIPTION
1	06-07-2021	ADDRESS PC COMMENTS
2		
3		
4		
5		

STRUCTURAL DETAILS

S-0.2



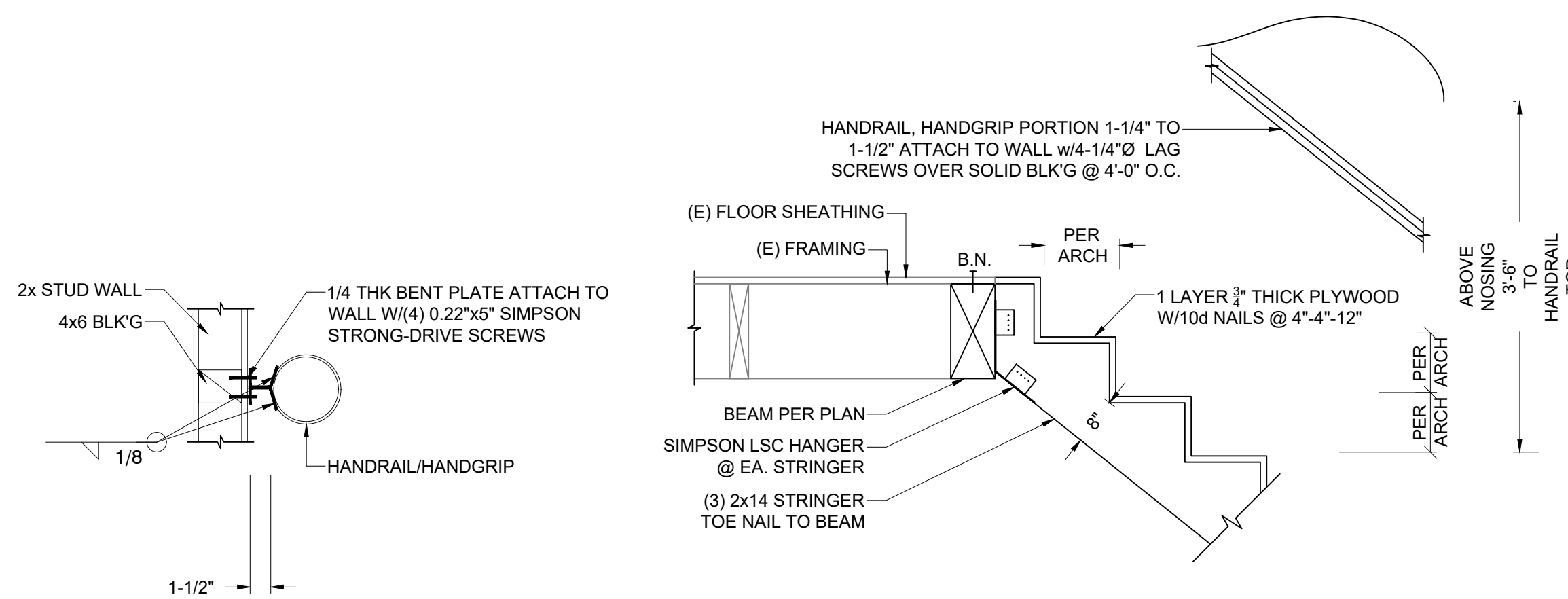
NOTE:
- NEW FOOTING REINFORCEMENTS ARE NOT SHOWN FOR CLARITY.

1 NEW POST ON EXISTING FOOTING (ABA/ABW)

2 NEW POST FOOTING

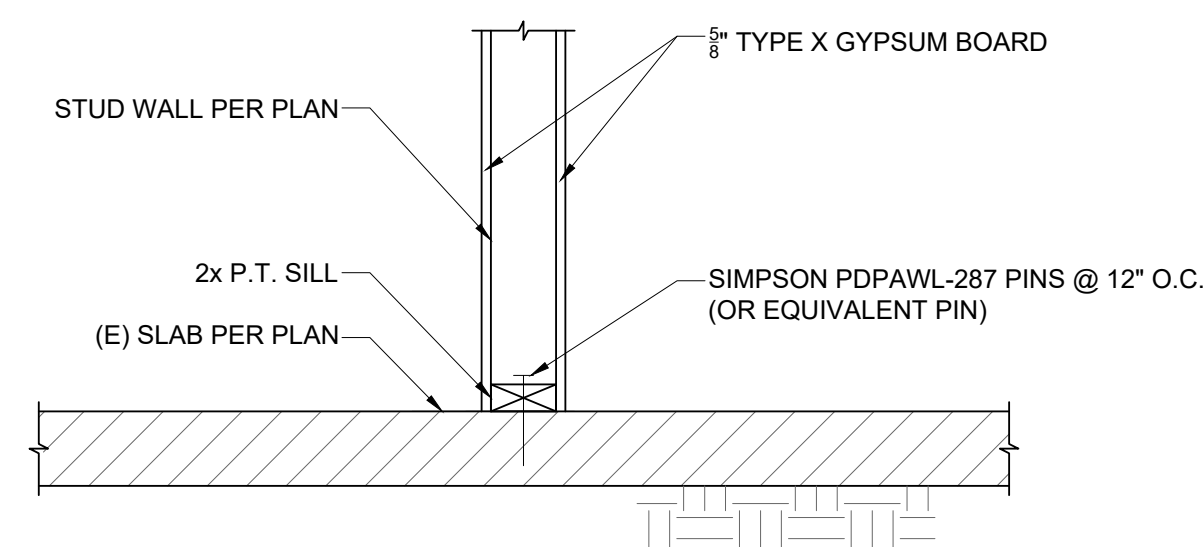
3 STAIR DETAIL

4 NEW FOOTING TO EXISTING CONNECTION

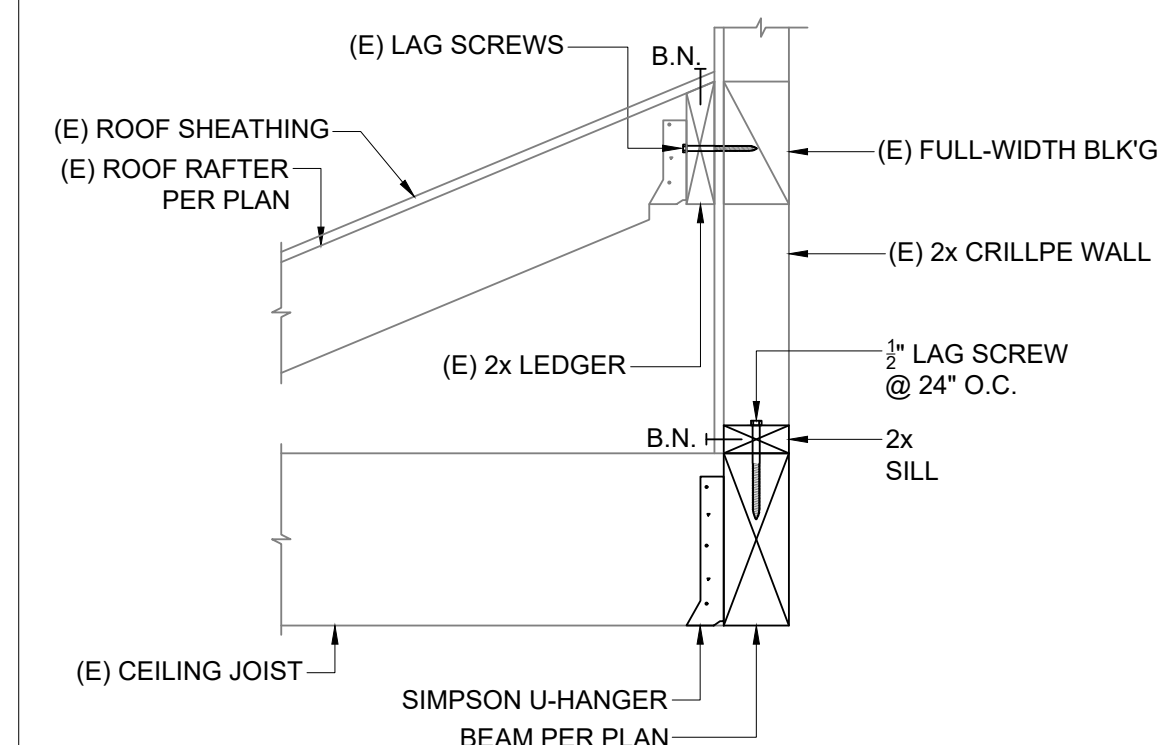


PROVIDE MIN. 6'-8\"/>

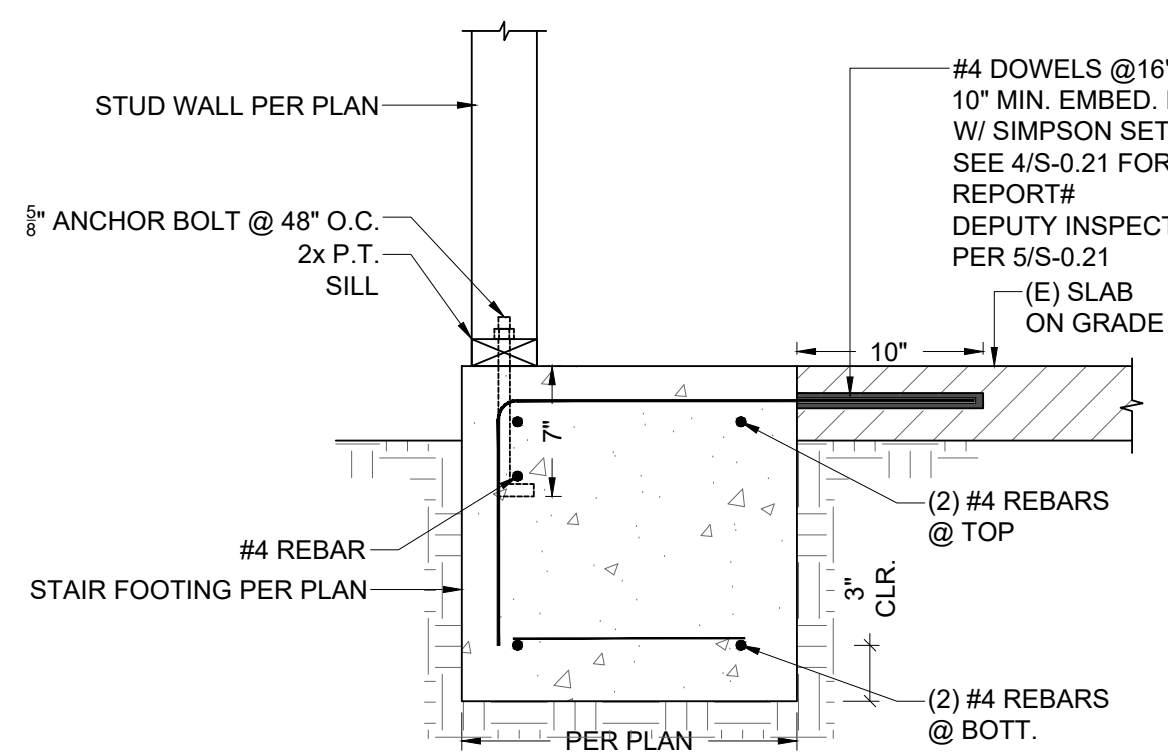
5 STAIR DETAIL



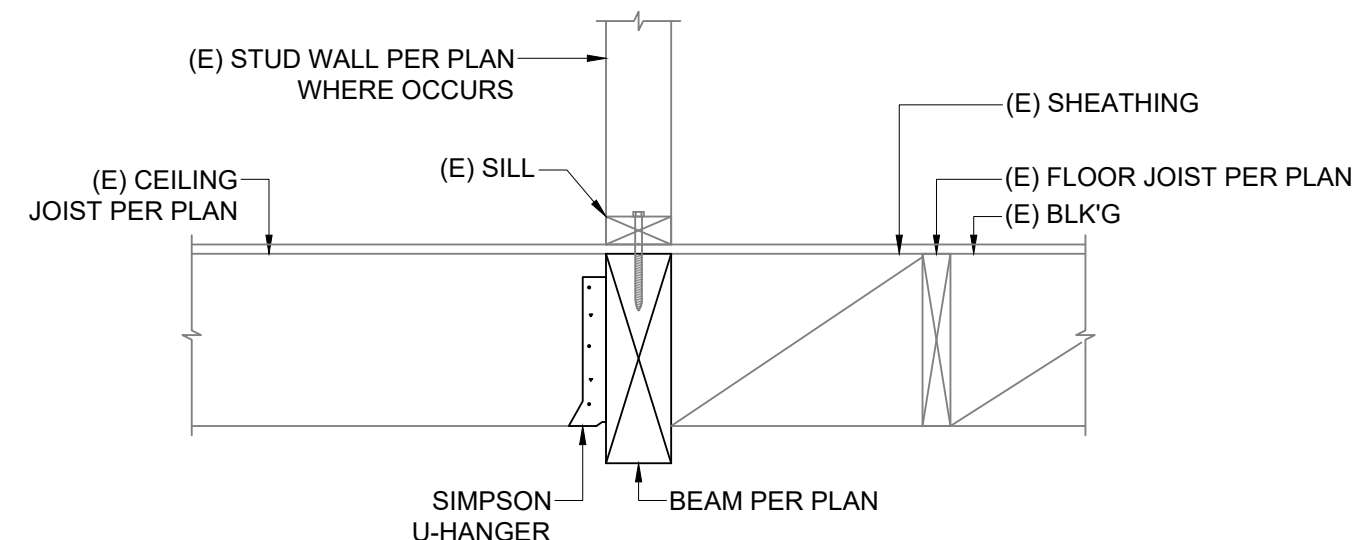
6 INTERIOR NON-LOAD-BEARING WALL ON (E) SLAB



7

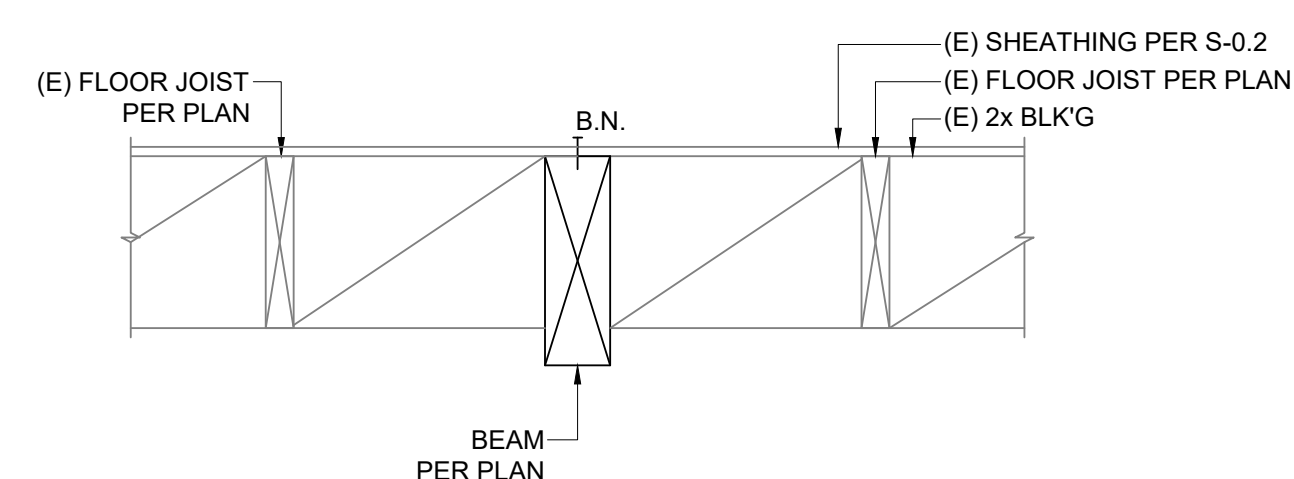


8

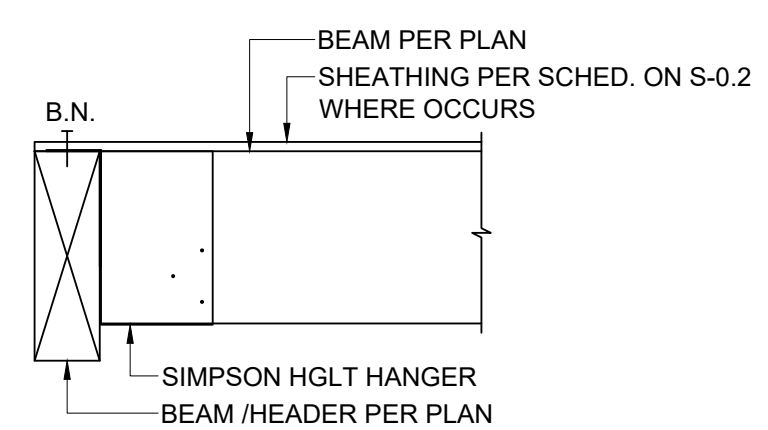


9.1

10.1 WOOD BEAM TO WOOD BEAM CONNECTION (HGLT)

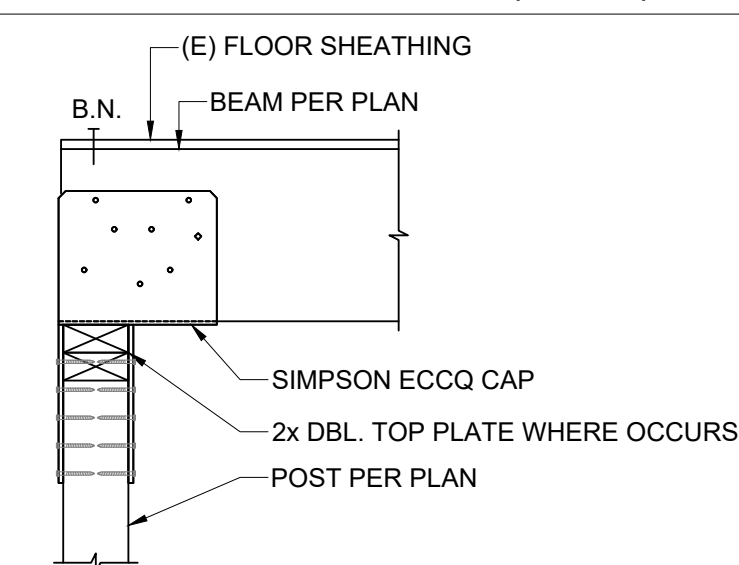


9.2 FLOOR JOIST AT BEAM

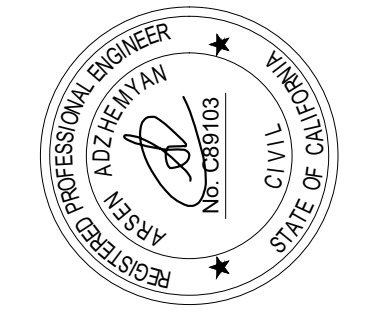


10.2

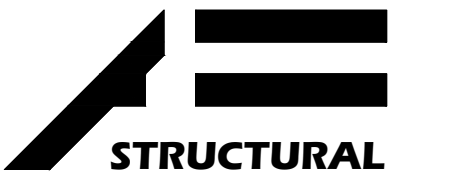
END COLUMN CAP DETAIL (ECCQ)



11



PROJECT NO: 2021-064
DATE: 04/06/2021



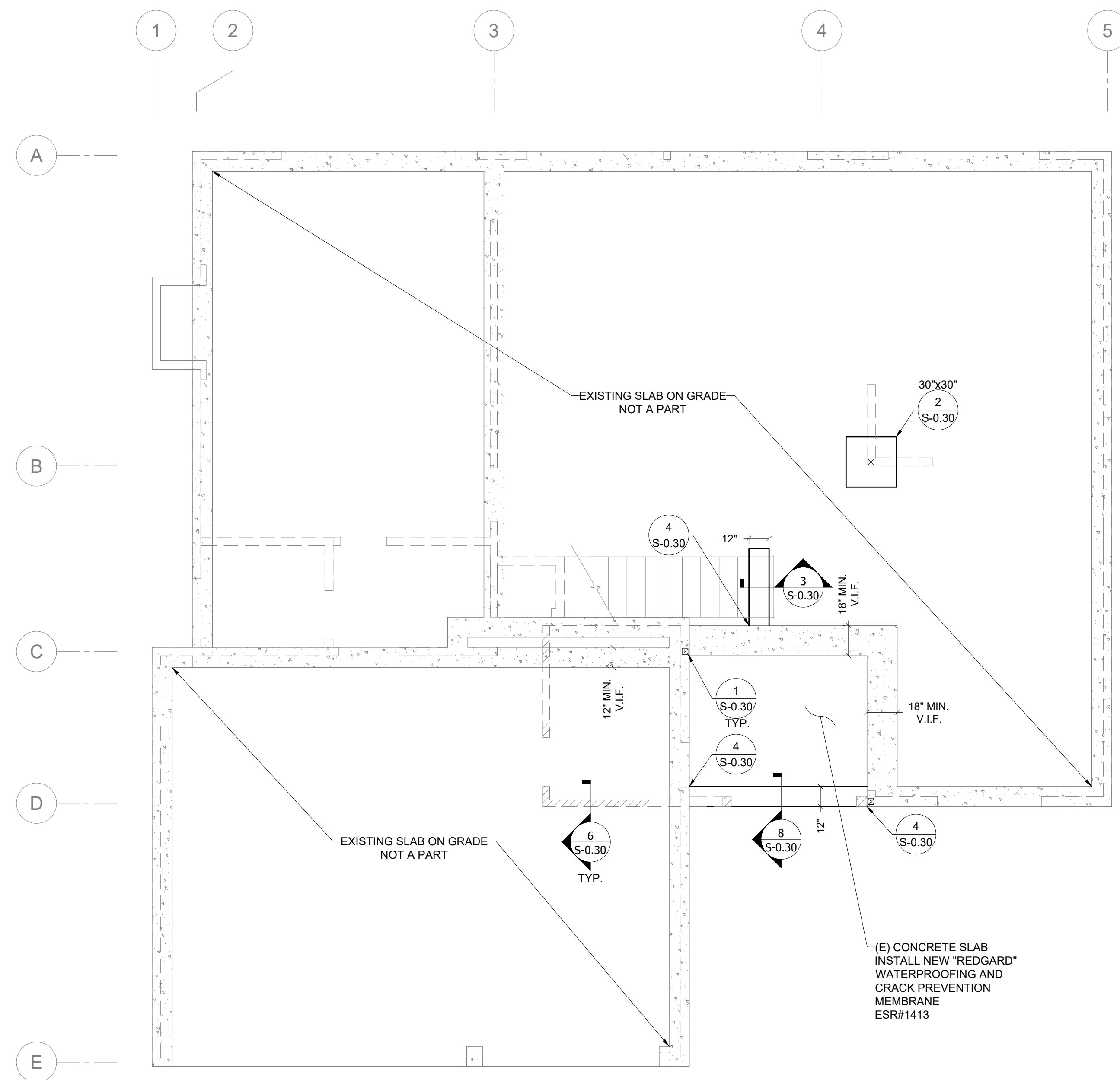
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CHECKED BY: V.V.

REV	DATE	DESCRIPTION	BY
1	06-07-2021	ADDRESS PC COMMENTS	A.A.
2			
3			
4			
5			

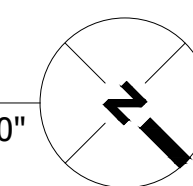
STRUCTURAL DETAILS

S-0.30



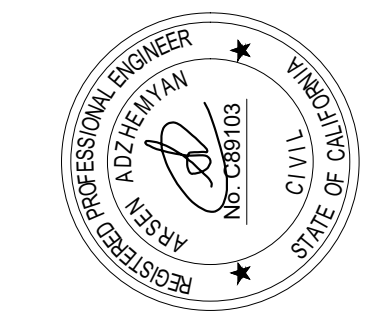
FOUNDATION PLAN

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

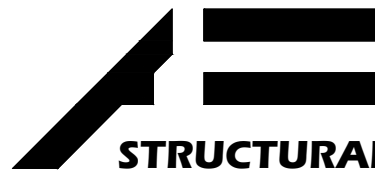


LEGEND	
	NEW FOUNDATION
	EXISTING FOUNDATION
	NEW WALL ABOVE
	EXISTING WALL ABOVE
	NEW POST ABOVE

- NOTE:
- EXISTING FRAMING AND FOUNDATION SHALL REMAIN IN PLACE, U.N.O. ON PLAN.
 - ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES.
 - CENTER POST ON FOOTING.
 - CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO STARTING WORK.
 - FOR LARR AND ESR REPORTS SEE DETAIL 4 ON SHEET S-0.21.
 - UNDERPIN SIZE SHALL BE PER DETAILS.
 - PAD REINFORCEMENT SHALL BE PER 3/S-0.21.



PROJECT NO:2021-064
DATE: 04/06/2021



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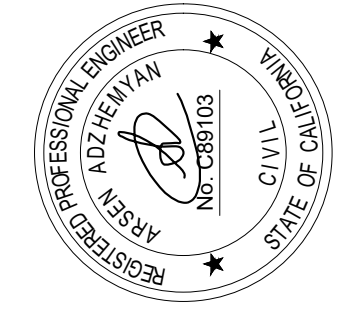
DESIGNED BY: A.A.
CHECKED BY: V.V.

PREPARED FOR:
BEN HAMED

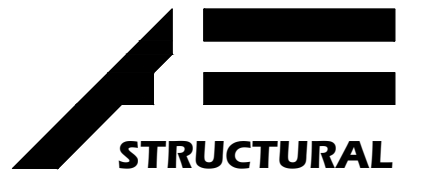
PROJECT ADDRESS:
4552 TRAFALGAR DR.
LA PALMA, CA
90623

REV	DATE	DESCRIPTION	BY
1	06-07-2021	ADDRESS PC COMMENTS	A.A.
2			
3			
4			
5			

FOUNDATION PLAN



PROJECT NO: 2021-064
DATE: 04/06/2021



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DESIGNED BY: A.A.
CHECKED BY: V.V.

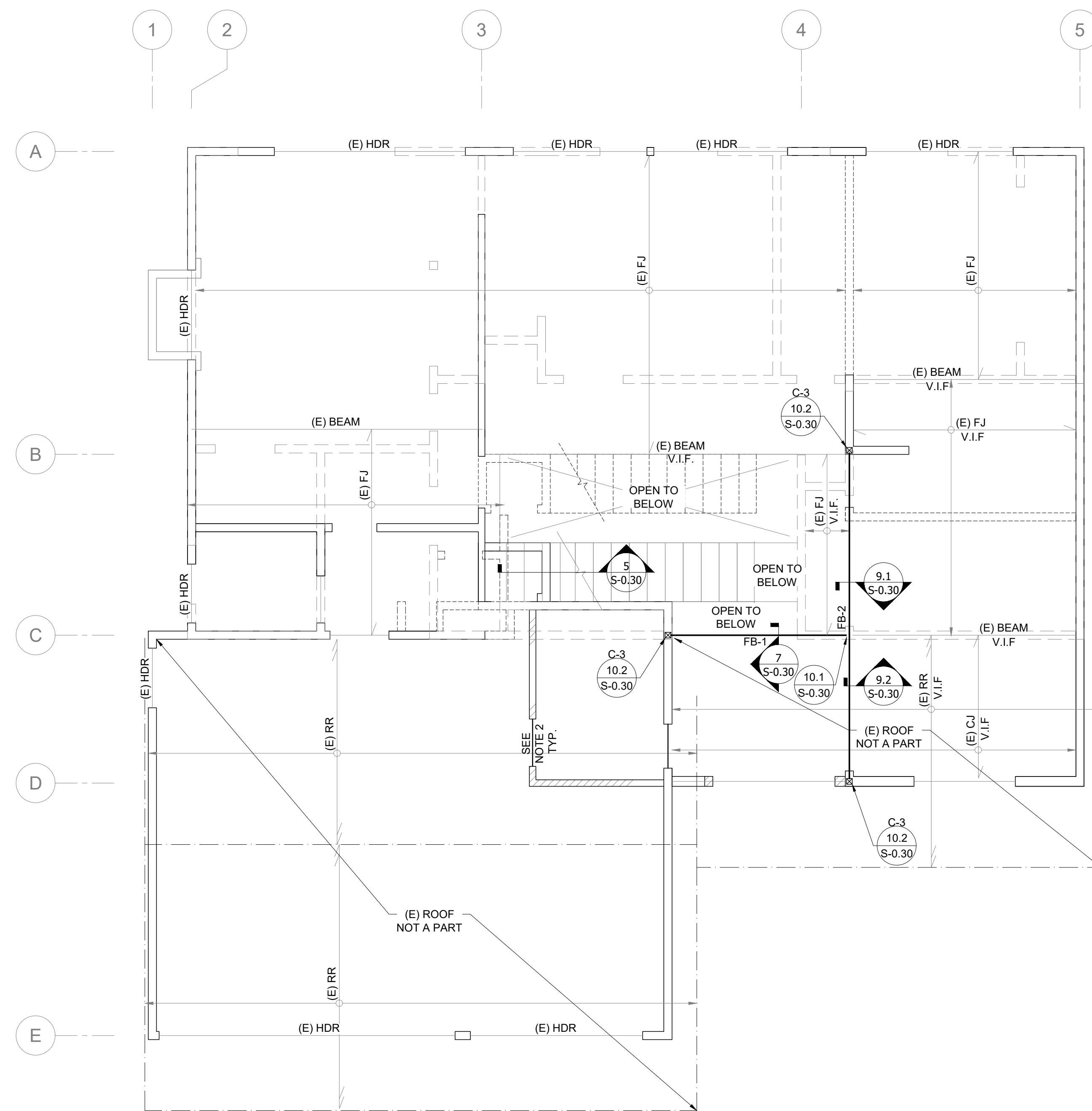
PREPARED FOR:
BEN HAMED

PROJECT ADDRESS:
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LA PALMA, CA
90623

REV	DATE	DESCRIPTION	BY
1	06-07-2021	ADDRESS PC COMMENTS	A.A.
2			
3			
4			
5			

2ND FLOOR FRAMING PLAN

S-2



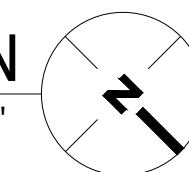
MEMBER SCHEDULE		
Designation	Size	Species and Grade
FB-1	3.5x9.25	Parallam PSL 2.0E
FB-2	7x11.25	Parallam PSL 2.0E
C-2	4x4	DF-L No.2
C-3	4x6	DF-L No.2

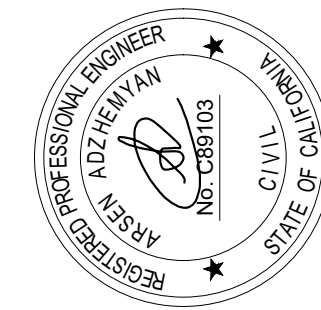
LEGEND	
	WALL BELOW
	NEW WALL BELOW
	WALL ABOVE
	WALL TO BE DEMOLISHED
	POST BELOW

- NOTES:
- FOR SHEATHING INFORMATION SEE SHEET S-0.2.
 - ALL HEADERS SHALL BE PER HEADER SCHEDULE ON SHEET S-0.2, U.N.O. ON PLAN.
 - IF ANY DISCREPANCIES IN MEMBER SIZES OCCUR, LARGER SIZE SHALL GOVERN.
 - FOR LARR AND ESR REPORTS SEE DETAIL 4 ON SHEET S-0.21.
 - FOR STRAPS AND END-LENGTH INFORMATION SEE STRAP SCHEDULE ON DETAIL 2 ON SHEET S-0.21.
 - FOR TYPICAL DETAILS SEE SHEET'S S-0.2 AND S-0.30.
 - ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES.
 - CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO STARTING WORK.
 - CONTRACTOR SHALL VERIFY THAT NONE OF THE WALLS TO BE DEMOLISHED IS SHEAR WALL OR CONNECTED TO THE ROOF DIAPHRAGM.
 - ALL INTERIOR NON-LOAD BEARING WALLS ARE 2x4 STUD WALLS.
 - ALL NEW EXTERIOR WALLS AND PLUMBING WALLS ARE 2x6.

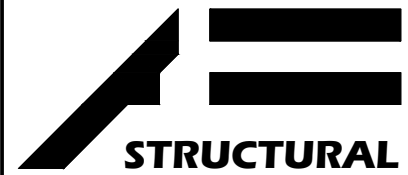
2ND FLOOR FRAMING PLAN

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





PROJECT NO: 2021-064
DATE: 04/06/2021



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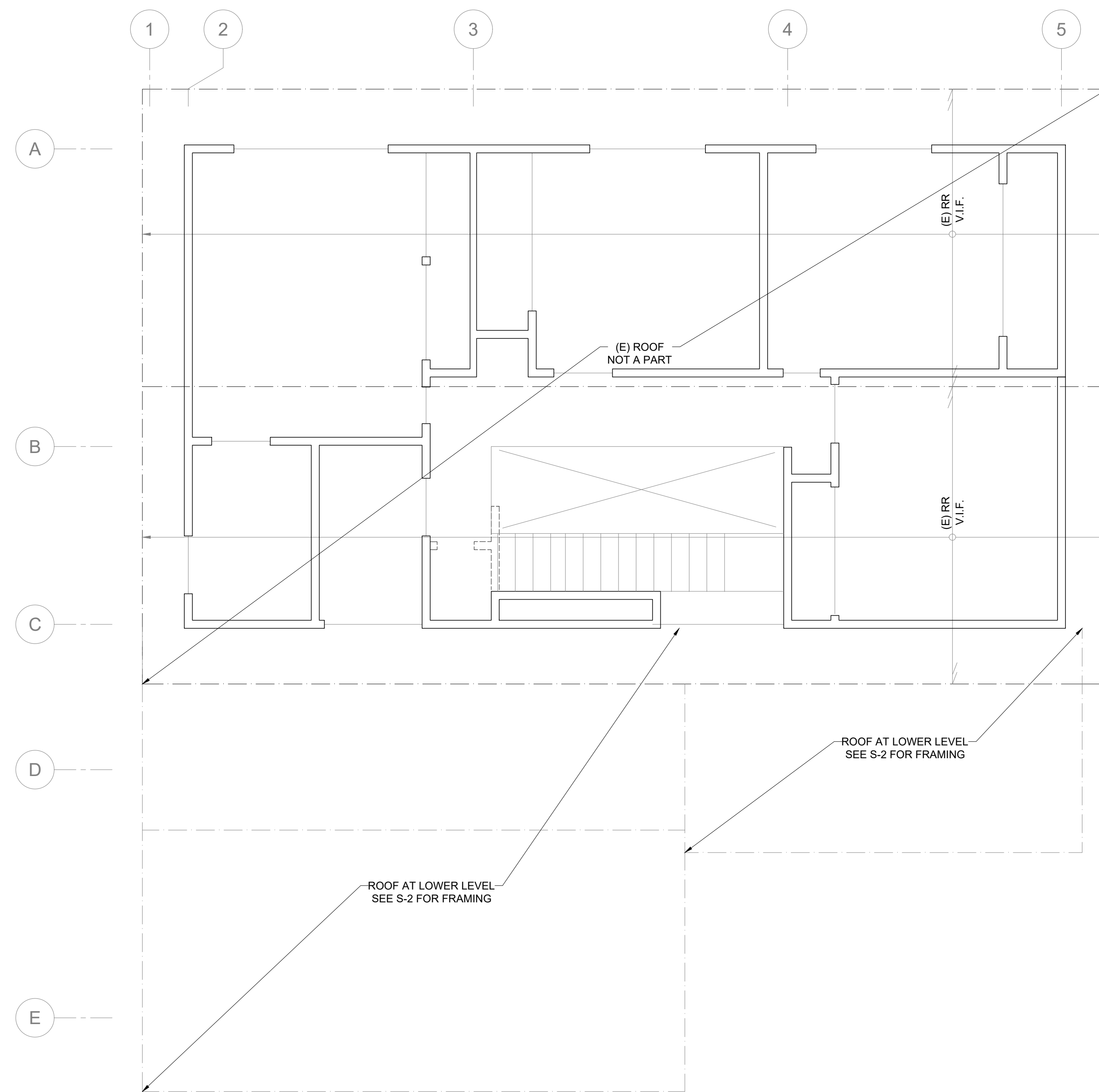
DESIGNED BY: A.A.
CHECKED BY: V.V.

PREPARED FOR:
BEN HAMED
PROJECT ADDRESS:
4552 TRAFALGAR DR.
LA PALMA, CA
90623

REV	DATE	DESCRIPTION	BY
1	06-07-2021	ADDRESS PC COMMENTS	A.A.
2			
3			
4			
5			

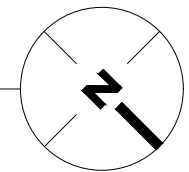
ROOF FRAMING PLAN

S-3



ROOF FRAMING PLAN

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



LEGEND	
	WALL BELOW
	WALL TO BE DEMOLISHED
	ROOF LINE

- NOTES:
- FOR SHEATHING INFORMATION SEE SHEET S-0.2
 - ALL HEADERS SHALL BE PER HEADER SCHEDULE ON SHEET S-0.2, U.N.O. ON PLAN.
 - IF ANY DISCREPANCIES IN MEMBER SIZES OCCUR, LARGER SIZE SHALL GOVERN.
 - ROOF RAFTERS AND CEILING JOISTS SHALL BE SPACED @ 16" O.C., U.N.O. ON PLAN.
 - FOR LARR AND ESR REPORTS SEE DETAIL 4 ON SHEET S-0.21.
 - FOR STRAPS AND END-LENGTH INFORMATION SEE STRAP SCHEDULE ON DETAIL 2 ON SHEET S-0.21.
 - FOR TYPICAL DETAILS SEE SHEETS S-0.2 AND S-0.30.
 - ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES.
 - CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO STARTING WORK.
 - PROTECT EXISTING FRAMING AND FOUNDATION IN PLACE, U.N.O.