

	PROJECT D	ΑΤΑ		Revision Date	I.D.
ons of the California Building Code, California california Plumbing Code, California Electrical Code, d California Green Building Standards Code, as able local amendments. ship and materials for a period of one year after ance of his/her work. oordination of all building systems including but not drainage, plumbing, mechanical, and electrical, and fire paid to the coordination of framing with electrical &	LOCATION: ASSESSOR PARCEL NUMBE ZONING: OCCUPANCY: CONSTRUCTION TYPE: SEISMIC DESIGN CATEGOR LOT AREA: EXISTING REAR YARD COVE	513 SAN C. ER: 67-2863-12 R-1 R-3 / U VB Y: D 3,600 SF ERAGE: 13%	ARLOS AVE ALBANY, CA 94706		
oner, as necessary. rchitectural, structural and governmental inspections ovide 10 day min. notice for all site reviews by a required for structural conformance to the approved and specifications. See Spec Div. 1C – Structural	PROPOSED REAR YARD CO ALLOWABLE REAR YARD CO MAXIMUM PROPOSED BUILDING HEIGHT : PARKING SPACES:	VERAGE: 20% DVERAGE: 30% 12'-0" 2 (1 WITHI	N GARAGE, 1 IN FRONT OF GARAGE)		2
ed for this project. Refer to Structural Engineering ructural General Notes [, and Special Inspection ecial Inspections. In the shall be installed per manufacturer's instructions rutions of materials or equipment for those designated ect. premises and take note of existing conditions prior to will be allowed for difficulties encountered, which an examination. Drawings of existing site conditions in various parts of the construction drawing set shall o proceeding with construction. edence over scaled dimensions and line drawings. DO additional dimensions. All dimensions are to face of of bearing, U.O.N. Contractor to verify all specified prought to the immediate attention of the Architect. ed, similar details (or description) shall apply. tion debris at the end of the job and dispose of it	FLOOR AREA CALCULATION PROGRAM PORCH INTERIOR STAIRS LOWER / BASEMENT MAIN LEVEL SECOND-FLOOR ACCESSORY STRUCTURE TOTAL DEDUCTIONS TOTAL LOT SIZE FLOOR AREA RATIO	IS EXISTING 5 SF 69.6 SF N/A 930 SF 940.6 SF 183.8 SF 2,159 SF -60 SF (STAIR) - 183.8 SF (GARAGE) 1,915.2 SF 3,600 SF 53.2 %	PROPOSED 35 SF 69.6 SF N/A 930 SF 940.6 SF 280 SF 2,255.2 SF - 60 SF (STAIR) -220 SF (GARAGE) 1,975.2 SF 54.86 % (55% MAX - 1,980 SF)	ARKIN • ARCHITE Ecological Planning	TILT CTS & Design
b broom clean. Contractor shall reduce construction . Div. 2. or is not required by the Authority Having Jurisdiction, prior to construction to establish foundation location ction staking by a Licensed Land Surveyor to establish construction. At the time of foundation inspection, sed Surveyor, as required by the Building Inspector, to ite plan requirements.] t SCR-0323, dated August 21, 2008, prepared by s of Santa Cruz, CA. All work to conform to the site ns of the Geotechnical Report. adjacent wall is 3" U.O.N.	PROJECT D	ESCRIPTIO	N ESSORY BUILDING (GARAGE)	1101 8th Stree Berkeley, C phone 510.52 info@arkin www.arkin	28.9830 28.9830 28.0206 tilt.com tilt.com
NEIGHBORING BUILDINGS, TYP.	PROJECT D OWNER Patricia O'Regan and 513 San Carlos Ave Albany, CA 94706 T: (510) 207-4033 E: poregan@sbcglob ARCHITECT Arkin Tilt Architects 1101 Eighth Street, St Berkeley, CA 94710 E: david@arkintilt.com T: (510) 528-9830 STRUCTURAL ENGI Verdant Structural Engi 1101 Eighth Street, St Berkeley, California 94 T: 510.428.9237 E: kelsey@verdantstructural	IRECTORY Mike Frauenfelder al.net uite 180 n NEER gineers uite 180 4710 ructural.com		Garage Rebuild for the : O'Regan and Frauenfelder Home 513 San Carlos Ave, Albany CA 94706	APN # 67-2863-12
PATIO SLAB PROPOSED GARAGE FOOTPRINT REPLACED GARAGE, SEE A5 FOR EXISTING ELEVATIONS	DRAWING I ARCHITECTURAL A1 COVER SHER A2 FLOOR, FRA A3 SECTIONS A A5 SITE SURVEY STRUCTURAL S0.0 GENERAL NO S2.0 FOUNDATION S4.0 TYPICAL DET S4.1 TYPICAL DET S4.2 DETAILS	N D E X ET AND SITE PLAN MING, ROOF PLAN A ND DETAILS Y AND EXISTING GA OTES, SHEET LIST, A N & UPPER AND LOW FAILS FAILS	AND ELEVATIONS RAGE ELEVATIONS AND ABBREVIATIONS WER ROOF FRAMING PLANS	DATE: 10/26/2022 JOB: ORS SCALE: AS NOTED DRAWN: KY SHEET: A 1	· · · ·









SHEET:

A 2



A 3 SCALE: 3" = 1'-0"



A 3









111

1 EXISTING SITE SURVEY (INFORMATION FROM MORAN ENGINEERING SEPTEMBER 25, 2009) A 5 SCALE: 1/8" = 1'-0"



GENERAL NOTES

<u>SCOPE</u>

THE SCOPE OF WORK INCLUDES A GARAGE REMODEL

COORDINATION

CONTRACTOR IS TO CONTACT THE ENGINEER AT THE START OF THEIR INVOLVEMENT TO REVIEW PROJECT DETAILING AND TO ENSURE THE MOST EFFICIENT CONSTRUCTION PROCESS.

ALL FEATURES OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME TYPE AND CHARACTER AS SHOWN FOR SIMILAR CONDITIONS. ALL SITE CONDITIONS, DIMENSIONS, ELEVATIONS, ETC. SHALL BE VERIFIED BEFORE STARTING WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE STRUCTURAL ENGINEER BEFORE PROCEEDING. IN THE EVENT OF ANY DISCREPANCIES BETWEEN STRUCTURAL DRAWINGS AND ARCHITECTURAL, MECHANICAL, OR PLUMBING DRAWINGS, NOTIFY THE ARCHITECT BEFORE PROCEEDING.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ADEQUATE BRACING, SHORING, AND SUPPORT OF ALL TEMPORARY CONSTRUCTION, TEMPORARY EXCAVATION, AND PARTIALLY COMPLETED PORTIONS OF THE BUILDING; SUCH BRACING, SHORING AND SUPPORT MUST INSURE THE SAFETY OF THE ADJACENT PROPERTY AND OF ANY PERSONS WHO MAY COME IN CONTACT WITH THE PROJECT.

CODES AND STANDARDS

DESIGN IS BASED ON THE CALIFORNIA BUILDING CODE, 2019 EDITION. ALL CONSTRUCTION SHALL CONFORM TO APPLICABLE SECTIONS OF THIS CODE.

LIVE LOADS

ROOF LIVE 20 PSF

SEISMIC DESIGN

	le Ss S1 SITE CLASS Sds Sd1 SEISMIC DESIGN CATEGORY Cs R ANALYSIS PROCEDURE REDUNDANCY FACTOR	1.0 2.191 0.845 D 1.752 0.958 E 0.245 6.5 (BEARING WALL, LIGHT FRAMED W/ WOOD STRUCTURAL PANELS) EQUIVALENT LATERAL FORCE 1.3
	DESIGN	
	BASIC WIND SPEED, V lw EXPOSURE	92 MPH 1.0 (CATEGORY II) B (URBAN, CLOSELY SPACED CONSTRUCTION)
ſ	MAIN WIND-FORCE RESISTING SYST	TEMS

ASCE 7-16, CHAPTER 27

COMPONENTS & CLADDING

ANALYSIS PROCEDURE

ANALYSIS PROCEDURE ASCE 7-16, CHAPTER 30

SUBMITTALS

THE FOLLOWING SHALL BE SUBMITTED TO THE ENGINEERS FOR REVIEW:

CONTRACTOR PROPOSED CHANGES IN PRODUCTS, MATERIALS, EQUIPMENT, AND METHODS OF CONSTRUCTION FROM THOSE SPECIFIED ON THE STRUCTURAL

DRAWINGS CONCRETE MIX DESIGN TWO WEEKS PRIOR TO CONCRETE POUR

CONCRETE REINFORCING STEEL PLACEMENT DRAWINGS

STRUCTURAL OBSERVATION

STRUCTURAL OBSERVATION WILL BE PROVIDED BY VSE IN ACCORDANCE WITH CBC 2019, CHAPTER 17. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 48 HOURS IN ADVANCE OF TIME WHEN WORK THAT REQUIRES STRUCTURAL OBSERVATION WILL BE COMPLETED.

THE FOLLOWING STRUCTURAL OBSERVATIONS SHALL BE PERFORMED:

- REINFORCING STEEL AND EMBEDDED ANCHORS BEFORE PLACEMENT OF CONCRETE

- WOOD FRAMING BEFORE FINISHES ARE APPLIED:

- GENERAL WOOD FRAMING

- SHEAR WALLS, DIAPHRAGMS, AND CONNECTIONS

SPECIAL INSPECTION

SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH CBC 2019, CHAPTER 17. A SPECIAL INSPECTOR SHALL BE ENGAGED TO PROVIDE SPECIAL INSPECTIONS. UNLESS OTHERWISE SPECIFICALLY INDICATED, THE ENGINEERS SHALL NOT PROVIDE SPECIAL INSPECTION.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE FEASIBILITY OF PERFORMING SPECIAL INSPECTIONS PRIOR TO THE SCHEDULING OF ANY INSPECTIONS. ANY DISCREPANCIES SHALL BE REPORTED TO THE STRUCTURAL ENGINEER.

THE FOLLOWING SPECIAL INSPECTIONS SHALL BE PERFORMED:

- WOOD FRAMING (CBC 1705.12) - PERIODIC INSPECTION OF SHEAR WALLS

FOUNDATIONS

SPREAD FOOTINGS SHALL BEAR ON UNDISTURBED SOIL, ENGINEERED FILL, OR ROCK. FOOTING DESIGN IS BASED ON A MAXIMUM ALLOWABLE SOIL BEARING PRESSURE OF 1500 PSF DEAD PLUS LIVE, AND 2000 PSF TOTAL LOADS, INCLUDING WIND OR SEISMIC.

CONCRETE SLAB ON GRADE (SOG) SHALL BE UNDERLAIN BY CLEAN CRUSHED ROCK, NO FINES. A VAPOR BARRIER OF 10-MIL MIN THICKNESS SHALL BE PLACED ON TOP OF THE GRAVEL.

WATERPROOFING

WHERE STRUCTURAL DETAILS INDICATE ANY WATERPROOFING OR VENTILATION ITEMS, THEY ARE SCHEMATIC ONLY AND FOR THE PURPOSE OF ASSISTING IN SHOWING A COMPLETE STRUCTURAL DETAIL. REFER ONLY TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR THE COMPLETE DESCRIPTION OF ALL REQUIRED WATERPROOFING AND VENTILATION SYSTEMS.

CONCRETE

OTHERWISE NOTED.

CONSTRUCTION JOINTS ARE PERMITTED EXCEPT WHERE LAP-SPLICES OCCUR, UON.

MIX DESIGN

FINES AND AGGREGATES MAY INCLUDE ENGINEERED PRODUCTS SUCH AS ORCA. RECYCLED CONCRETE AGGREGATE (RCA), RETURNED FRESH CONCRETE (RFC), CRUSHED CONCRETE AGGREGATE (CCA) OR EQUIVALENT. CONSULT ENGINEER OR CONCRETE SUPPLIER TO CONFIRM WHERE THESE MIXES ARE APPLICABLE.

CONCRETE SUPPLIER TO SUBMIT ENVIRONMENTAL PRODUCT DECLARATION (EPD) ALONG WITH CONCRETE MIX PROVIDED, IF AVAILABLE. CONCRETE MIX WITH EPD RECOMMENDED.

CONCRETE SUPPLIER WITH NRMCA GREEN-STAR PLANT CERTIFICATION IS RECOMMENDED.

CONSULT VSE IF FAST CURE TIMES ARE ANTICIPATED FOR HEAVILY LOADED AREAS. MATURITY TESTING (SMART CONCRETE SENSORS) MAY BE USED TO MONITOR STRENGTH.

A MINIMUM SCM OF 50% REQUIRED AND UP TO 90% SCM ALLOWED. SCM'S MAY INCLUDE BUT ARE NOT LIMITED TO CARBON CURE, SLAG, FLY ASH, NATURAL GLASS POZZOLANS ETC. CONSULT ENGINEER FOR MORE INFO.

CONCRETE TO COMPLY TO REDUCED CARBON CONCRETE LIMITS. ALL MIXES OF THE FOLLOWING STRENGTHS SHALL BE LIMITED TO THE FOLLOWING CEMENT CONTENT (NOTE: THE ASSOCIATED CURE TIMES FOR THESE STRENGTHS AS THEY RELATE TO SPECIFIC STRUCTURAL ELEMENTS ARE LISTED ABOVE):

COM

OUR REQUIREMENTS DO NOT CERTIFY ANY AESTHETIC OR WORKABILITY OUTCOME OF THE MIX BEYOND STRUCTURAL PERFORMANCE. THIS IS THE RESPONSIBILITY OF THE CONTRACTOR.

HOSE SIZE

IT IS RECOMMENCED TO USE LARGER $\frac{3}{4}$ " & 1" AGGREGATES INSTEAD OF PEA GRAVEL. THE LARGER AGGREGATES CAN REDUCE THE POUNDS OF CEMENT PER YARD OF CONCRETE. USE A HOSE SIZE ADEQUATE FOR THE LARGER AGGREGATE WHEN POSSIBLE.

REINFORCING BARS NOTED OR SHOWN AS CONTINUOUS SHALL RUN IN AS LONG LENGTHS AS PRACTICAL. IN SLAB AND BEAMS LOCATE TOP BAR SPLICES MIDWAY BETWEEN SUPPORTS, BOTTOM BAR SPLICES AT SUPPORTS. BEND AND SPLICE BARS AS NOTED IN THE DETAILS.

UNLESS OTHERWISE NOTED, THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:

CON CONC CON

CAST-IN-PLACE ANCHORS IN NEW CONCRETE

FOR ALL SHEAR WALL SILL ANCHORS INTO NEW CONCRETE USE 5/8" DIAMETER ANCHOR BOLTS WITH 7" MIN EMBEDMENT, UON SPACE ANCHORS PER SHEAR WALL SCHEDULE. PROVIDE MIN 4D CLEARANCE BETWEEN ANCHOR BOLTS AND EDGE OF CONCRETE.

[VSE or BY OTHERS]

PER MANUFACTURER, ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 7 DAYS AT TIME OF ANCHOR INSTALLATION AND 21 DAYS BEFORE FULL LOADING. FOR INSTALLATIONS SOONER THAN 7 DAYS CONSULT ADHESIVE MANUFACTURER.

FOR ALL SHEAR WALL SILL ANCHORS INTO EXISTING CONCRETE USE 5/8" DIAMETER ALL-THREAD-ROD WITH 7" MIN EMBEDMENT, UON SPACE ANCHORS PER SHEAR WALL SCHEDULE.

FOR ALL SHEAR WALL HOLDOWN ANCHORS INTO EXISTING CONCRETE SEE HOLDOWN SCHEDULE FOR ANCHOR TYPE, DIAMETER, AND EMBEDMENT.

STRUCTURAL STEEL

CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 301-19. CONCRETE SHALL BE NORMAL WEIGHT AND SHALL BE REINFORCED UNLESS

CONSULT ENGINEER FOR ACCEPTABLE THERMAL BREAK LOCATIONS.

ALL CONCRETE SHALL BE CONSOLIDATED WITH A MECHANICAL VIBRATOR.

A SLUMP OF 3 TO 4 INCHES IS REQUIRED.

THE FOLLOWING INFORMATION IS SHARED TO PRODUCE A MIX DESIGN THAT MEETS THE STRUCTURAL REQUIREMENTS OF THE PROJECT AND REDUCES THE POUNDS OF CEMENT PER YARD AS MUCH A POSSIBLE.

STRENGTH & CURE TIME

MINIMUM CONCRETE COMPRESSIVE STRENGTHS ARE:

DRILLED PIERS: 2500 PSI COMPRESSIVE STRENGTH @ 84 DAYS FOOTINGS & GRADE BEAMS: 2500 PSI COMPRESSIVE STRENGTH @ 56 DAYS RETAINING WALLS: 2500 PSI COMPRESSIVE STRENGTH @ 14 DAYS SLABS: 2500 PSI COMPRESSIVE STRENGTH @ 56 DAYS SHOTCRETE (IF USED): 2500 PSI COMPRESSIVE STRENGTH @ 14 DAYS

SUPPLEMENTAL CEMENTITIOUS MATERIAL (SCM)

MINIMUM SPECIFIED	MAXIMUM ORDINARY PORTLAND CEMENT CONTENT, (LBS/YD3)			
IPRESSIVE STRENGTH, F'C (PSI)				
	REQUIRED	RECOMMENDED		
UP TO 2500	362	GENERAL: 100-150		
		SLABS: 150-250		

REINFORCING STEEL

REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60.

WELDING OF REINFORCEMENT BARS SHALL COMPLY WITH AWS D1.4 STRUCTURAL WELDING CODE-REINFORCING STEEL. USE GRADE A706 UNLESS SHOWN OTHERWISE.

CRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:	3"
CRETE EXPOSED TO EARTH OR WEATHER:	2"
CRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	
SLABS AND WALLS:	1"
BEAMS AND COLUMNS:	11⁄2"

FOR ALL SHEAR WALL TIE-DOWN ANCHORS INTO NEW CONCRETE SEE TIE-DOWN SCHEDULE FOR ANCHOR TYPE, DIAMETER, AND EMBEDMENT.

ADHESIVE DOWELS TO EXISTING CONCRETE

ADHESIVE ANCHORS SHALL BE ONE OF THE FOLLOWING:

 "SET-3G" ADHESIVE SYSTEM BY SIMPSON STRONG-TIE COMPANY, INC. INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND ICC EVALUATION REPORT ESR-4057. CONTACT ENGINEER FOR "SET-XP".

MINIMUM HOLE SIZE AND EMBEDMENT SHALL BE AS FOLLOWS, U.O.N. ON THE DRAWINGS. HOLE SIZE SHALL BE 1/8" GREATER THAN DIAMETER OF DOWEL/ ALL-THREAD-ROD. REMOVE DUST FROM HOLE WITH COMPRESSED AIR AND A NYLON BRUSH IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.

DETAILS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE LATEST AISC STANDARD SPECIFICATIONS.

STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING: MISCELLANEOUS CHANNELS, ANGLES, AND PLATE: ASTM A36

STEEL NOT RECEIVING FIREPROOFING OR STEEL EXPOSED TO WEATHER SHALL HAVE ONE COAT OF SHOP PRIMER. STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED OR HAVE OTHER APPROVED PROTECTIVE COATING.

BOLTS AND ROD SHALL CONFORM TO THE FOLLOWING: COMMON BOLTS: ASTM A307 USE U.O.N. HIGH STRENGTH BOLTS (H.S.B.): ASTM A325 TYPE N ANCHOR RODS: ASTM F1554 GR. 36

THREADED ROD: ASTM A36

CARPENTRY

IT IS STRONGLY ENCOURAGED THAT ALL LUMBER PRODUCTS ARE EITHER RECLAIMED OR SALVAGED AND CERTIFIED BY THE FOREST STEWARDSHIP COUNCIL (BEARING FSC STAMP) OR THE SUSTAINABLE FORESTRY INITIATIVE (SFI) OR FROM LOCALLY SUSTAINABLE HARVESTED SOURCES. CONSULT ENGINEER IF CLARITY IS DESIRED.

PROVIDE 4X6 OR 6X6 HEADERS OVER ALL EXTERIOR WALL DOOR AND WINDOW OPENINGS UON (6'-0" MAX.). PROVIDE 4X6 OR 6X6 MIN. HEADERS OVER ALL DOOR AND OTHER OPENINGS (6'-0" MAX.) ELSEWHERE UON PROVIDE 2X4 (OR 2X6) CRIPPLE AND FULL HEIGHT STUD AT EACH JAMB.

PROVIDE FULL DEPTH SOLID BLOCKING BETWEEN STUDS @ 10'-0" OC MAX AND BETWEEN JOISTS @ 12'-0" OC MAX.

ALL 2X6 STUDS SHALL BE SPACED AT 2'-0" U.O.N. AT 1'-4" WHEN SUPPORTING TWO FLOORS PLUS A ROOF CEILING OR A HABITABLE A ATTIC: CRC TABLE R602.3(5), THIS REQUIREMENT MAY CHANGE IF STRAW INSULATION IS USED. CONSULT ENGINEER.

ALL 2X4 STUDS SHALL BE SPACED AT 2'-0" U.O.N. AT 1'-4" WHEN SUPPORTING ONE FLOOR PLUS A ROOF CEILING OR A HABITABLE A ATTIC: CRC TABLE R602.3(5). THIS REQUIREMENT MAY CHANGE IF STRAW INSULATION IS USED. CONSULT ENGINEER.

MOISTURE CONTENT AND PROTECTION

ALL FRAMING SHALL HAVE A MOISTURE CONTENT BELOW 19% MAXIMUM UPON INSTALLATION.

MATERIALS SHALL BE PROPERLY STORED ON THE JOB SITE. MATERIALS SHALL BE STORED OFF OF THE GROUND, AND PROTECTED FROM EXPOSURE TO THE ELEMENTS.

PRESERVATIVE TREATMENT

FRAMING MEMBERS EXPOSED TO WEATHER OR IN CONTACT WITH CONCRETE, BUT NOT IN CONTACT WITH THE GROUND SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AWPA STANDARD U1 & M4.

PER CBC 2304.12.2, PRESERVATIVE-TREATED WOOD USED IN INTERIOR LOCATIONS SHALL BE PROTECTED WITH TWO COATS OF URETHANE, SHELLAC, LATEX EPOXY, OR VARNISH UNLESS WATERBORNE PRESERVATIVES ARE USED. PRIOR TO THE APPLICATION OF THE PROTECTIVE FINISH, THE WOOD SHALL BE DRIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

DIMENSIONAL LUMBER

- DIMENSIONAL LUMBER SHALL CONFORM TO THE FOLLOWING MINIMUM GRADES AND SHALL BE DOUGLAS FIR, UON, AS FOLLOWS:
- -SILLS AND LEDGERS ON CONCRETE OR CONCRETE BLOCK DOUGLAS FIR PRESSURE TREATED WITH AN APPROVED PRESERVATIVE OR REDWOOD -RAFTERS, JOISTS, STUDS, PLATES, BLOCKING, ETC. - NO.2 OR BETTER, UON

MANUFACTURED LUMBER

TJI'S, PARALLAMS (PSL'S), MICROLLAMS (LVL'S), AND TIMBERSTRAND (LSL) ARE MANUFACTURED BY ILEVEL WEYERHAEUSER. UON USE:

-BEAMS- 2.2E PARALLAM PSL -RAFTERS AND JOISTS- 2.0E MICROLLAM LVL

-BEAMS AND POSTS 4X AND WIDER - NO.1. UON

-POSTS- 1.8E PARALLAM PSL

SHEATHING

WOOD SHTG PANELS SHALL CONFORM TO PS 1-19 OR PS 2-18, EXPOSURE 1 (OR EXTERIOR GRADE PER ARCHITECTURAL REQUIREMENTS), WHICH CAN INCLUDE PWD AND OSB. FLOOR AND ROOF SHEATHING SHALL BE PLACED WITH LONG AXIS OF PANELS PERPENDICULAR TO SUPPORTS AND WITH STAGGERED END JOINTS.

ROOF - ¹⁹/₃₂" 40/20 APA RATED SHEATHING WITH T&G EDGES (UNBLOCKED, UON), (OR WHEN 15" 40/20 APA RATED SHEATHING WITH T&G EDGES IS PREFERRED USE ONE PLYCLIP PER JOIST SPACE AT ALL UNSUPPORTED EDGES IF JOIST SPACING EXCEEDS 1'-4"). NAIL ALL SUPPORTED EDGES WITH 10d" @ 6"; ALL OTHER INTERMEDIATE BEARINGS WITH 10d" @ 12". OFFSET PANEL GRID IN ONE DIRECTION. WHERE DIAPHRAGMS ARE BLOCKED NAIL ALL PANEL EDGES W/ MIN 10d" @ 6", UON.

FLOORS - 237 24 O.C. APA RATED STURD-I-FLOOR WITH T&G EDGES (UNBLOCKED, UON). NAIL ALL SUPPORTED EDGES WITH 10d" @ 6"; ALL OTHER INTERMEDIATE BEARINGS WITH 10d" @ 12". OFFSET PANEL GRID IN ONE DIRECTION. WHERE DIAPHRAGMS ARE BLOCKED NAIL ALL PANEL EDGES W/ MIN 10d" @ 6", UON.

WALLS - (WHERE SHOWN ON PLANS) ¹⁵/₃₂" 32/16 APA RATED SHEATHING. BLOCK EDGES. NAIL ALL PANEL EDGES PER SHEAR WALL SCHEDULE WHERE INDICATED OR WITH 10d" @ 6" UON; NAIL ALL OTHER INTERMEDIATE BEARINGS WITH 10d" @ 12".

FASTENERS

ALL WOOD CONNECTIONS SHALL BE IN ACCORDANCE WITH TABLE 2304.10.1 OF THE 2019 CBC. NAILS SHALL BE COMMON WIRE NAILS U.O.N. BOLTS AND LAG SCREWS BEARING ON WOOD SHALL HAVE WASHERS. SILLS OR PLATES SHALL BE BOLTED TO CONCRETE WITH 5/8" DIAMETER BOLTS WITH 3X3X1/4" WASHERS, EMBEDDED 7" MINIMUM AT 4'-0" MAXIMUM ON CENTER, UON.

FASTENERS FOR INTERIOR APPLICATIONS PENETRATING PRESSURE-TREATED LUMBER, OR FASTENERS EXPOSED TO WEATHER INCLUDING EXTERIOR APPLICATIONS OF PRESSURE-TREATED LUMBER SHALL BE HOT DIPPED ZINC-COATING GALVANIZED WITH A MINIMUM ASTM A 653 TYPE G185 COATING OR STAINLESS STEEL.

METAL FRAMING ANCHORS SHALL BE MANUFACTURED BY SIMPSON STRONG-TIE COMPANY OR EQUAL. JOIST HANGERS SHALL BE "LUS" SERIES UON ON DRAWINGS. JOIST HANGERS SHALL BE "HU" SERIES WHERE JOISTS ARE SLOPED OR SKEWED. OR WHERE THE HANGER IS TO BE WELDED ONTO THE CARRYING MEMBER.

POST CAPS/BASES ARE NOT REQUIRED UNLESS SPECIFICALLY CALLED OUT ON DRAWINGS. FASTEN BEAM WITH (4) 10d COMMON NAILS TOENAILED TO POST.

S0.0	GENERAL NOTES,
S2.0	FOUNDATION & UP
S4.0	TYPICAL DETAILS
S4.1	TYPICAL DETAILS
S4.2	DETAILS

_____ ·∆ ⊲ _____ _ _ _ _ _ __ _ HD _ _ _ _ _ _ _ _ _____ _____

_ _

SHEET LIST

AL NOTES, SHEET LIST, AND ABBREVIATIONS

ATION & UPPER AND LOWER ROOF FRAMING PLANS

MATERIAL LEGEND			
	(N) CONCRETE		
	(E) CONCRETE		
	(N) FOOTING		
	(E) FOOTING		
->	WOOD SHEAR WALL		
004	TIEDOWN		
	WALL BELOW		
	(N) WOOD BEAM		
	(N) RAFTER OR JOIST		
	(E) MEMBER		
	WOOD POST ABOVE DBL STUD OR 4X, U.O.N.		
	WOOD POST BELOW DBL STUD OR 4X, U.O.N.		
	WOOD POST ABV & BLW DBL STUD OR 4X, U.O.N.		
	STRAP		
1			

HANGE

ABBREVIATIONS

ABV ADDL APPROX ALT ARCH ATR BLW BLDG BLKG BM BN BTWN BOT BP CBC CJ CL CLR CMU CSK COL CONC CONT D DIA DIMS DBL DET DF DTP DWG (E) EA EB EF EJ EL EN ENGR ΕO EQ ES EW EXT FDN FIN FN FOC FOS FS FTAO FTG GA GALV GB GLT GYP BD HDG HDR HF HGR HORZ HSB HSS HT ID INT JST LLH LONG LSL LVL MANU MAX MB MIN (N) N/A NO NS NTS 0/ OC OD OH OPNG OSB PAF PEN PERF PERP PL PSL PSWS PT PVC PWD RDWD REINF RFT REQD RET RO SAD SCD SCHED SLD SMD SHT SHTG SIM SOG SQ SS STD STL STIFF SW SYM T&B TD T&G THRD TN TOS TYP UON VB VERT VIF W W/ WP WPM WS WWR

ANCHOR BOLT ABOVE ADDITIONAL APPROXIMATE ALTERNATE ARCHITECT ALL-THREAD ROD BELOW BUILDING BLOCKING BFAM **BOUNDARY NAIL** BETWEEN BOTTOM **BEARING PLATE** CALIFORNIA BUILDING CODE CONSTRUCTION JOINT; CONTROL JOINT CENTER LINE CLEAR CONCRETE MASONRY UNITS COUNTERSINK COLUMN CONCRETE CONTINUOUS PENNY (NAIL SIZE) DIAMETER DIMENSIONS DOUBLE DETAIL DOUGLAS FIR DOUBLE TOP PLATE DRAWING EXISTING EACH EXPANSION BOLT EACH FACE **EXPANSION JOINT** ELEVATION EDGE NAIL ENGINEER EVERY OTHER EQUAL EACH SIDE FACH WAY EXTERIOR FOUNDATION FINISH FIELD NAIL FACE OF CONCRETE FACE OF STUD FAR SIDE FORCE TRANSFER AROUND OPENING FOOTING GAUGE GALVANIZED GRADE BEAM GLUED-LAMINATED TIMBER GYPSUM WALL BOARD HOT DIP GALVANIZED HEADER HARDY FRAME HANGER HORIZONTAL HIGH STRENGTH BOLTS HOLLOW STRUCTURAL SECTION HEIGHT **INSIDE DIAMETER** INTERIOR JOIST ANGLE SECTION LONG LEG HORIZONTAL LONG LEG VERTICAL LONGITUDINAL LAMINATED STRAND LUMBER LAMINATED VENEER LUMBER MANUFACTURER MAXIMUM MACHINE BOLT MINIMUM NFW NOT APPLICABLE NUMBER NEAR SIDE NOT TO SCALE OVER ON CENTER OUTSIDE DIAMETER OPPOSITE HAND OPENING ORIENTED STRAND BOARD POWDER ACTUATED FASTENERS PENETRATION PERFORATED PERPENDICULAR PI ATF PARALLEL STRAND LUMBER PER SHEAR WALL SCHEDULE PRESSURE TREATED POLYVINYL CHLORIDE PLYWOOD REDWOOD REINFORCEMENT RAFTER REQUIRED RETAINING ROUGH OPENING SEE ARCHITECTURAL DRAWINGS SEE CIVIL DRAWINGS SCHEDULE SEE LANDSCAPE DRAWINGS SEE MECHANICAL DRAWINGS SHEET SHEATHING SIMILAR SLAB ON GRADE SQUARE SELECT STRUCTURAL; STAINLESS STEEL STANDARD STEEL STIFFENER SHEAR WALL SYMMETRICAL TOP AND BOTTOM TIE-DOWN TONGUE AND GROOVE THREADED TOE-NAIL TOP OF SLAB; TOP OF STEEL TYPICAL UNLESS OTHERWISE NOTED VAPOR BARRIER VERTICAL VERIFY IN FIELD WIDE FLANGE SECTION WITH WORKING POINT WATERPROOF MEMBRANE WOOD SCREW WELDED WIRE REINFORCEMENT SIZE OF REINFORCING BAR AT (SPACING)





Sheet 2 of 5





NOT TO SCALE



1. MINIMUM INSIDE BEND DIAMTERS & STANDARD HOOK GEOMETRY ARE BASED ON ACI 318-14 TABLE 25.3.2.



STIRRUPS & TIE HOOKS

2

S4.0

4d,

HOOK

2¹/₂" MIN

+ + +

<u>180° HOOK</u>

TABLE 25.3.1.



CLASS A

STD HOOK

ASS SPL

\SS SPL

4

\S4.0⁄

CLASS B

25.4.2.2, GR. 60 STEEL AND NORMAL WEIGHT AGGREGATE. CLEAR SPACING OF BARS BEING CLEAR COVER NOT LESS THAN db. 2. CLASS A SPLICES ARE LIMITED TO CASES WHERE

ONE-HALF OR LESS OF THE TOTAL REINFORCEMENT IS (STAGGERED SPLICE). SEE ACI COMMENTARY FIGURE R25.5.2.1 FOR CLASS A TENSION LAP SPLICE

SPLICED WITHIN THE REQUIRED LAP LENGTH



STD HOOK

DOUBLE CURTAIN

SINGLE CURTAIN

CONC REINF AT CORNERS & INTERSECTIONS

STD HOOK





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CLASS B

LAP SPLICE

ALTERNATE STD HOOK

NOT TO SCALE

NOT TO SCALE

NOT TO SCALE

HOOKS

 \mathbf{n} AND FF REBUIL any CA any SAN GE 4 Ч. Ш. М. Revision:

AR 3 San C 513 C O Date: 10/26/2022 Scale: AS NOTED RTW Drawn: 22061 Job:

Sheet: S4.0 Sheet 3 of 5

TYPICAL

DETAILS



1³⁄4"

TOP OF

Sheet 4 of 5

MIN STUD/BLKG AT PANEL JOINT (3)	ANCHOR BOLT SPACING (4)	FNDN SILL	FLR SILL CONN TO 2X RIM (5) (6)	SILL AT UPPER FLR	CLIPS TO RIM/BLKG (5)(7)
2x	48"	2x	SDWSX6" @16" O.C.	2x	A35 @24" OR LTP4 @24"
3x OR 2-2x SPLICED	32"	3x	SDWSX6" @12" O.C.	2x	A35 @16" OR LTP4 @16"

