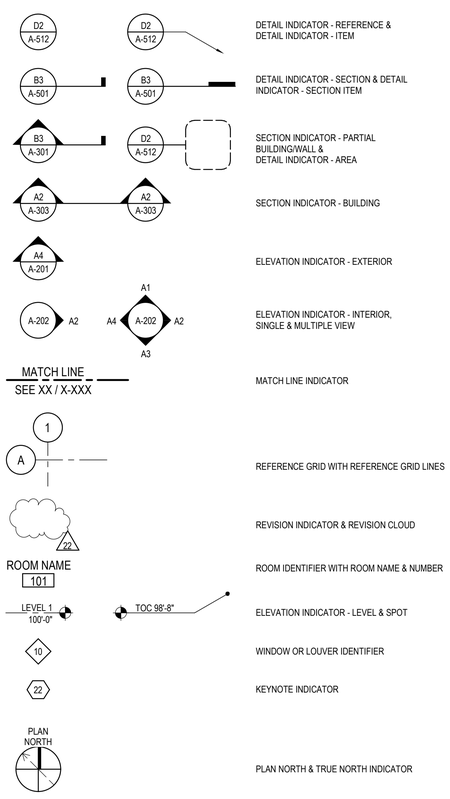
GENERAL NOTES

1. PRIOR TO SUBMITTING COST PROPOSAL, THE CONTRACTOR/OWNER SHALL VERIFY EXISTING CONDITIONS ON SITE & REVIEW MODIFICATIONS AND DIMENSIONS REQUIRED TO SUIT THE CONTRACT DOCUMENTS.
2. CONTRACT DOCUMENTS ARE COMPLEMENTARY, WHAT IS CALLED FOR ON ANY DOCUMENT WILL BE BINDING AS IF CALLED FOR ON ALL DOCUMENTS. ALL WORK SHOWN OR REFERENCED ON ANY CONSTRUCTION DOCUMENT SHALL BE PROVIDED AS THOUGH SHOWN ON ALL RELATED DOCUMENTS.
3. THE CONTRACTOR/OWNER SHALL EXAMINE, READ AND BE THOROUGHLY FAMILIAR WITH ALL OF THE CONTRACT DOCUMENTS. SHOULD THE CONTRACTOR/OWNER FIND DISCREPANCIES IN OR OMISSIONS FROM THE DRAWINGS AND SPECIFICATIONS, OR SHOULD BE IN DOUBT AS TO THEIR INTENT OR MEANING, HE SHALL NOTIFY THE ARCHITECT IMMEDIATELY FOR CLARIFICATION OR INTERPRETATION.
4. SHOULD A DISCREPANCY APPEAR IN DRAWINGS OR SPECIFICATIONS, OR IN WORK DONE BY OTHERS AFFECTING THIS WORK, NOTIFY DESIGN EVEREST AT ONCE FOR INSTRUCTION AS TO PROCEDURE. IF CONTRACTOR/OWNER PROCEEDS WITH WORK AFFECTED WITHOUT INSTRUCTION FROM THE DESIGNER, THE CONTRACTOR SHALL MAKE GOOD ANY RESULTING DAMAGE OR DEFECT.
5. SHOULD CONFLICT OCCUR IN OR BETWEEN DRAWINGS AND SPECIFICATION OR WHERE DETAIL REFERENCES ON CONTRACT DRAWINGS HAVE BEEN OMITTED, CONTRACTOR/OWNER IS DEEMED TO HAVE ESTIMATED THE MOST EXPENSIVE MATERIALS AND CONTRACTOR INVOLVED .
6. ALL WORK SHALL MEET FEDERAL, STATE AND LOCAL BUILDING CODES AND ORDINANCES IN EFFECT AT THE TIME OF CONSTRUCTION IN ADDITION TO ADA REQUIREMENTS. SOLE REFERENCE SHALL MEET THE EDITIONS SPECIFIED ON THIS SHEET AND AS AMENDED BY THE STATE OF CALIFORNIA AND LOCAL JURISDICTION.
7. CONTRACTOR/OWNER SHALL CONFIRM DURING THE PRICING PERIOD ON-SITE DELIVERY DATES OF ALL MATERIALS SPECIFIED IN THE CONTRACT DOCUMENTS AND IMMEDIATELY NOTIFY THE DESIGNER IN WRITING OF POTENTIAL DELAYS TO THE COMPLETION OF THE PROJECT. IF THE CONTRACTOR/OWNER FAILS TO ORDER MATERIALS IN SUFFICIENT TIME FOR ORDERLY INSTALLATION, THE DESIGNER WILL NOT ENTERTAIN ANY REQUESTS FOR MATERIAL SUBSTITUTION.
8. THE CONTRACTOR SHALL REMOVE ALL RUBBISH AND WASTE MATERIALS ON A REGULAR BASIS, AND SHALL EXERCISE STRICT CONTROL OVER JOB CLEANING TO PREVENT ANY DIRT, DEBRIS OR DUST FROM AFFECTING FINISHED AREAS IN OR OUTSIDE OF THE JOB SITE. THE BUILDING REFUSE FACILITIES SHALL NOT BE USED FOR THIS PURPOSE WITHOUT PERMISSION FROM BUILDING OWNER.
9. THE CONTRACTOR SHALL CONFINE OPERATIONS AT THE SITE TO AREAS PERMITTED BY LAW, ORDINANCES, PERMITS AND CONTRACT DOCUMENTS, AND SHALL NOT UNREASONABLY ENCUMBER THE SITE WITH ANY MATERIALS OR EQUIPMENT.
10. THE CONTRACTOR SHALL LEAVE THE PREMISES AND ALL AREAS CLEAN AND IN AN ORDERLY MANNER READY FOR OCCUPANCY AT THE END OF THE PROJECT.
11. THE CONTRACTOR/OWNER SHALL SUBMIT TO THE OWNER FOR APPROVAL, A DETAILED CONSTRUCTION SCHEDULE SHOWING PHASING AND TIME ALLOTMENT OF WORK.
12. THE CONTRACTOR/OWNER, OR SUBCONTRACTORS, SHALL SECURE AND PAY FOR ALL PERMITS, GOVERNMENTAL FEES AND LICENSES REQUIRED FOR PROPER COMPLETION OF THE
13. NO PORTION OF THE WORK REQUIRING A SHOP DRAWING OR SAMPLE SUBMISSION SHALL BE COMMENCED UNTIL THE SUBMISSION HAS BEEN REVIEWED AND ACTED UPON BY THE ARCHITECT ALL SUCH PORTIONS OF THE WORK SHALL BE IN ACCORDANCE WITH THE REVIEWED SHOP DRAWINGS AND SAMPLES.
14. CONSTRUCTION LIABILITY: CONSTRUCTION CONTRACTOR AND HIS SUBCONTRACTORS AGREE THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR AND HIS SUBCONTRACTORS WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR AND HIS SUBCONTRACTORS FURTHER AGREE TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL
15. DATUM IS SET AT +0'-0" FOR REFERENCE PURPOSES (TOP OF SLAB) ALL ELEVATIONS SHOWN ON PLANS, ELEVATIONS AND SECTIONS (EXCEPT FOR GRADING PLANS) ARE REFERENCED TO THIS DATUM.
16. CONTRACTOR/OWNER SHALL BE RESPONSIBLE FOR ACCURATE LOCATION OF PLOT LINES, BOUNDARIES, AND FOR MAINTAINING PROPER RELATIONSHIPS TO SUCH AS INDICATED ON CIVIL DRAWINGS IF APPLICABLE.
17. THE CONTRACTOR/OWNER SHALL PROVIDE POSITIVE DRAINAGE OF SURFACE WATER WITHOUT PONDING OF WATER ADJACENT TO BUILDING OR ON PAVEMENTS. DRAINAGE OF PAVED AREAS TO BE AS SHOWN ON CIVIL ENGINEER'S DRAWINGS.
18. ALL PATCHING, REPAIRING AND REPLACING OF MATERIALS AND SURFACES CUT OR DAMAGED IN EXECUTION OF WORK SHALL BE DONE WITH APPLICABLE MATERIALS SO THAT SURFACES REPLACED WILL, UPON COMPLETION, MATCH SURROUNDING SIMILAR SURFACES.
19. ALL VENTS THROUGH ROOF SHALL BE KEPT AT A MINIMUM HEIGHT CONSISTENT WITH APPLICABLE CODES.
20. ALL OPEN JOINTS, PENETRATIONS AND OTHER OPENINGS IN THE BUILDING ENVELOPE SHALL BE SEALED, CAULKED, GASKETED OR WEATHERSTRIPPED TO LIMIT AIR LEAKAGE.
21. ELECTRICAL, MECHANICAL, AND PLUMBING SYSTEMS ARE "DESIGN/BUILD." PERFORMANCE SPECIFICATIONS AS WELL AS EQUIPMENT SIZES ARE TO BE REVIEWED BY THE DESIGNER AND OWNER PRIOR TO THE COMMENCEMENT OF ANY WORK.
22. ALL MECHANICAL, ELECTRICAL AND PLUMBING LOCATIONS SHOWN ON DESIGNERS PLANS ARE FOR DESIGN INTENT ONLY. ALL ELECTRICAL, MECHANICAL AND PLUMBING WORK ARE TO BE PROVIDED AS PART OF THIS PACKAGE PER THE LOCAL JURISDICTION.
23. PLUMBING AND EQUIPMENT VENTING: WHERE FEASIBLE, VENT ALL PLUMBING FIXTURES, EXHAUST VENTS, FURNACE, AND WATER HEATER TO ROOF. VERIFY ALL LOCATIONS OF VENTS WITH DESIGNER AND OWNER PRIOR TO INSTALLATION.
24. PROVIDE WATER-RESISTANT GYPSUM BOARD AT ALL BATH, TOILET, AND LAUNDRY ROOM WALLS THAT WILL BE PAINTED. PROVIDE WONDER BOARD AT ALL WALL AND CEILING SURFACES THAT MAY BE FINISHED WITH TILE OR STONE.
25. THE CONTRACTOR/OWNER SHALL COORDINATE ALL WORK WITH MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS, AND REPORT TO JM3DESIGN OR OWNER REPRESENTATIVE ANY DISCREPANCIES FOR CORRECTION OR ADJUSTMENT. NO ALLOWANCE WILL BE MADE FOR INCREASED COSTS INCURRED DUE TO LACK OF PROPER COORDINATION.
26. NOISE REDUCTION: CONSTRUCTION CONTRACTORS SHALL MUFFLE AND SHIELD INTAKES AND EXHAUSTS, SHROUD OR SHIELD IMPACT TOOLS, AND USE ELECTRIC-POWERED RATHER THAN DIESEL-POWERED CONSTRUCTION EQUIPMENT (AS FEASIBLE). ALL STATIONARY NOISE-GENERATING EQUIPMENT SHALL BE LOCATED AS FAR AWAY AS POSSIBLE FROM NEIGHBORING PROPERTY LINES. ALL CONSTRUCTION EQUIPMENT SHALL BE MAINTAINED AND OPERATED ACCORDING TO MANUFACTURER'S MAINTENANCE SCHEDULES AND RECOMMENDATIONS TO MINIMIZE NOISE AND EXHAUST EMISSIONS (PARTICULARLY NITROGEN OXIDES).
27. CONTRACTOR/OWNER TO COORDINATE WITH OWNER FOR OWNER-PROVIDED MATERIALS AND PRODUCTS.
28. ANY AND ALL MATERIALS SUPPLIED BY OWNER SHALL BE INSTALLED BY CONTRACTOR/OWNER (I.B.C.), UNLESS OTHERWISE NOTED. CONTRACTOR/OWNER SHALL COORDINATE WITH OWNER FOR REQUIRED SCHEDULING AND ORDERING INFORMATION. CONTRACTOR/OWNER SHALL ASSIST IN DETERMINING QUANTITIES WHEN REQUIRED.
29. FOR ALL MATERIALS PROVIDED BY CONTRACTOR/OWNER WHICH REQUIRE COLOR OR FINISH SELECTION, CONTRACTOR/OWNER SHALL CONTACT DESIGNER AND OWNER FOR ALL DECISIONS.
30. ADEQUATE PREPARATION OF THE SUBSTRATE IS IMPERATIVE TO PROPER BONDING OF THE PAINT. PREP EACH SUBSTRATE AS RECOMMENDED BY MANUFACTURER. THOROUGHLY
31. ALL WOOD SHALL BE PAINTED AS FOLLOWS: EXTERIOR - THREE COAT (STAIN AND SEAL WHERE INDICATED), INTERIOR: TWO COAT (STAIN AND SEAL WHERE INDICATED)
32. COLORS WILL BE PROVIDED AND SELECTED BY OWNER. FINAL ACCEPTANCE OF COLORS WILL BE FROM JOB-APPLIED SAMPLES. PROVIDE FULL-COAT FINISH SAMPLES ON SURFACE WITH A MINIMUM SIZE OF 25 S.F. FOR APPROVAL BY OWNER.
33. INSTALLATION INSTRUCTIONS FOR ALL LISTED EQUIPMENT SHALL BE PROVIDED TO THE FIELD INSPECTOR AT TIME OF INSPECTION. CMC 303.1.
34. PER SECTION 704A.5.1. DETACHED ACCESSORY STRUCTURES SHALL COMPLY WITH REQUIREMENTS OF CHAPTER 7A FOR ALL PROJECTS LOCATED IN THE WILDLAND URBAN INTERFACE.
35. ROOFING ASSEMBLIES
    A. ROOFING ASSEMBLIES SHALL BE DESIGNED TO PREVENT THE INTRUSION OF FLAMES AND EMBERS BETWEEN THE ROOF COVERING AND THE ROOF DECKING.
    B. ROOF VALLEY FLASHING SHALL BE MADE OF NOT LESS THAN 26-GAUGE GALVANIZED SHEET METAL INSTALLED OVER A MINIMUM 36" WIDE UNDERLAYMENT OF ONE LAYER OF 72" CAP SHEET RUNNING THE FULL LENGTH OF THE VALLEY.
    C. ROOF GUTTERS SHALL BE DESIGNED TO PREVENT THE ACCUMULATION OF LEAVES AND DEBRIS INTHE GUTTER.
36. ATTIC VENTILATION
    A. ROOF ATTIC VENTS SHALL BE DESIGNED TO RESIST THE INTRUSION OF FLAMES AND EMBERS INTO THE ATTIC OF A STRUCTURE, OR SHALL BE PROTECTED WITH CORROSION RESISTANT, NONCOMBUSTIBLE WIRE MESH WITH 1/4" OPENINGS, OR EQUIVALENT.
    B. EAVE AND CORNICE VENTS SHALL BE DESIGNED TO RESIST THE INTRUSION OF FLAMES AND EMBERS INTO THE ATTIC OF A STRUCTURE, OR SHALL BE PROTECTED WITH CORROSION-RESISTANT, NONCOMBUSTIBLE WIRE MESH WITH 1/4" OPENINGS, OR EQUIVALENT.
    C. EAVE PROTECTION - EAVES AND SOFFITS SHALL BE PROTECTED BY IGNITION-RESISTANT MATERIALS OR NONCOMBUSTIBLE CONSTRUCTION ON THE EXPOSED UNDERSIDE.
37. EXTERIOR WALLS
    A. EXTERIOR WALLS SHALL BE DESIGNED USING IGNITION-RESISTANT MATERIALS, NONCOMBUSTIBLE CONSTRUCTION, HEAVY TIMBER, LOG WALL CONSTRUCTION OR EQUIVALENT.
    B. EXTERIOR WALL COVERINGS SHALL EXTEND FROM THE TOP OF THE FOUNDATION TO THE ROOF, AND TERMINATE AT 2" NOMINAL SOLID WOOD BLOCKING BETWEEN RAFTERS AT ALL ROOF OVERHANGS, OR TERMINATE ATE AT AN EAVE ENCLOSURE.
    C. EXTERIOR WALL VENTS SHALL BE DESIGNED TO RESIST INTRUSION OF FLAME AND EMBERS INTO THE STRUCTURE, OR SHALL BE PROTECTED WITH A CORROSION RESISTANT, NONCOMBUSTIBLE WIRE MESH WITH 1/4" OPENINGS, OR EQUIVALENT.
    D. EXTERIOR WINDOW, WINDOW WALL, AND GLAZED DOOR ASSEMBLIES SHALL HAVE A 20-MINUTE FIRE-RESISTANT RATING, OR BE DESIGNED USING INSULATING-GLASS UNITS WITH A MINIMUM OF ONE TEMPERED PANE, OR GLASS BLOCK UNITS.
    E. EXTERIOR DOOR ASSEMBLIES SHALL HAVE A 20-MINUTE FIRE RESISTANT RATING, OR BE DESIGNED USING NONCOMBUSTIBLE CONSTRUCTION, OR BE CONSTRUCTED OF SOLID-CORE WOOD HAVING STILES AND RAILS NOT LESS THAN 1 3/8" THICK, AND FIELD PANELS NOT LESS THAN 1 14" THICK.
    F. EXTERIOR VEHICLE ACCESS DOORS SHALL BE NON-COMBUSTIBLE OR EXTERIOR FIRE-RETARDANT TREATED WOOD.
38. THE CONSTRUCTION SHALL NOT RESTRICT A FIVE FOOT CLEAR AND UNOBSTRUCTED ACCESS TO ANY WATER OR POWER DISTRIBUTION FACILITIES (POWER POLES, PULL BOXES, TRANSFORMERS, VAULTS, PUMPS, VALVES, METERS, APPURTENANCES, ETC.)OR THE LOCATION OF THE HOOK UP . THE CONSTRUCTION SHALL NOT BE WITHIN TEN FEET OF ANY POWER LINES WHETHER OR NOT THE LINES ARE LOCATED ON THE PROPERTY. FAILURE TO COMPLY MAY CAUSE CONSTRUCTION DELAYS AND/OR ADDITIONAL EXPENSES.
39. AN APPROVED SEISMIC GAS SHUTOFF VALVE WILL BE INSTALLED ON THE FUEL GAS LINE ON THE DOWNSTREAM SIDE OF HE UTILITY METER AND BE RIGIDLY CONNECTED TO THE EXTERIOR OF THE BUILDING OR STRUCTURE CONTAINING THE FUEL GAS PIPING. (PER ORDINANCE 170,158) (SEPARATE PLUMBING PERMIT IS REQUIRED).
40. PLUMBING FIXTURES ARE REQUIRED TO BE CONNECTED TO A SANITARY SEWER OR TO AN APPROVED SEWAGE DISPOSAL SYSTEM (R306.3).
41. KITCHEN SINKS, LAVATORIES , BATHTUBS, SHOWERS, BIDETS, LAUNDRY TUBS AND WASHING MACHINE OUTLETS SHALL BE PROVIDED WITH HOT AND COLD WATER AND CONFECTED TO AN APPROVED WATER SUPPLY (R306.4)
42. BATHTUB AND SHOWER FLOORS , WALLS ABOVE BATHTUBS WITH A SHOWERHEAD , AND SHOWER COMPARTMENTS SHALL BE FINISHED WITH A NONABSORBENT SURFACE. SUCH WALL SURFACED SHALL EXTEND TO A HEIGHT OF NOT LESS THAN 6 FEET ABOVE THE FLOOR (R307.2).
43. PROVIDE ULTRA-LOW FLUSH WATER CLOSETS FOR ALL NEW CONSTRUCTION. EXISTING SHOWER HEADS ND TOILETS MUST BE ADAPTED FOR LOW WATER CONSUMPTION.
44. WATER HEATER MUST BE STRAPPED TO WALL.
45. AUTOMATIC GARAGE DOOR OPENERS, IF PROVIDED, SHALL BE LISTED IN ACCORDANCE WITH UL 325. (R309.4).
46. SMOKE DETECTORS SHALL BE PROVIDED FOR ALL DWELLING UNITS INTENDED FOR HUMAN OCCUPANCY ,WHERE A PERMIT IS REQUIRED FOR ALTERATIONS, REPAIRS, OR ADDITIONS. (R314.6.2).
47. WHERE A PERMIT IS REQUIRED OR ALTERATIONS ,REPAIRS OR ADDITIONS ,EXISTING DWELLING OR SLEEPING UNITS THAT HAVE ATTACHED GARAGES OR FUEL-BURNING APPLIANCES SHALL BE PROVIDED WITH A CARBON MONOXIDE ALARM IN ACCORDANCE WITH SECTION R315.2. CARBON MONOXIDE ALARMS SHALL ONLY BE REQUIRED IN THE SPECIFIC DWELLING UNIT OR SLEEPING UNIT FOE WHICH THE PERMIT WAS OBTAINED. (R315.2.2).
48. EVERY SPACE INTENDED FOR HUMAN OCCUPANCY SHALL BE PROVIDED WITH NATURAL LIGHT BY MEANS OF EXTERIOR GLAZED OPENINGS IN ACCORDANCE WITH SECTION R303.1 OR SHALL BE PROVIDED WITH ARTIFICIAL LIGHT THAT IS ADEQUATE TO PROVIDE AN AVERAGE ILLUMINATION OF 6 FOOT CANDLES OVER THE AREA OF THE ROOM AT A HEIGHT OF 30 INCHED ABOVE THE FLOOR LEVEL (R303.1).
49. A COPY OF THE EVALUATION REPORT AND/OR CONDITIONS OF LISTING SHALL BE MADE AVAILABLE AT THE JOB SITE.
50. EVERY HOLDER OF A DEMOLITION PERMIT AND/OR BUILDING PERMIT SHALL COMPLETELY ENCLOSE BY FENCING THE CONSTRUCTION SITE PRIOR TO THE START OF DEMOLITION OR CONSTRUCTION. SEE ALSO CHAPTER 33 OF THE U.B.C. REGARDING PROTECTION OF PEDESTRIANS. IF EXCAVATING, CONTRACTOR SHALL NOTIFY THE UNDERGROUND SERVICE ALERT (USA 1-800-422- 4133) PRIOR TO ANY EXCAVATION.
51. A CONSTRUCTION SITE NOTIFICATION IS REQUIRED IF THE BUILDING VALUATION IS GREATER THAN $50,000.

ARCHITECTURAL SYMBOLS LEGEND



DETAIL INDICATOR - REFERENCE & DETAIL INDICATOR - ITEM

DETAIL INDICATOR - SECTION & DETAIL INDICATOR - SECTION ITEM

SECTION INDICATOR - PARTIAL BUILDING/WALL & DETAIL INDICATOR - AREA

SECTION INDICATOR - BUILDING

ELEVATION INDICATOR - EXTERIOR

ELEVATION INDICATOR - INTERIOR, SINGLE & MULTIPLE VIEW

MATCH LINE INDICATOR

REFERENCE GRID WITH REFERENCE GRID LINES

REVISION INDICATOR & REVISION CLOUD

ROOM IDENTIFIER WITH ROOM NAME & NUMBER

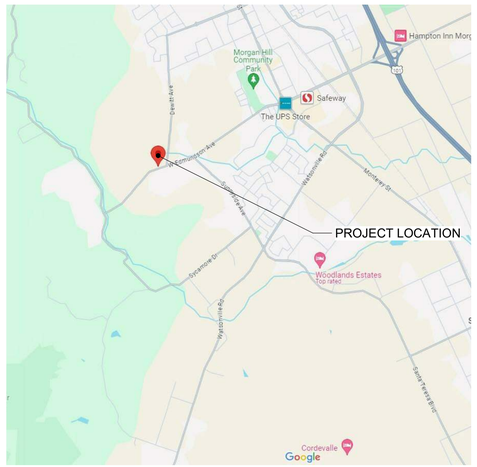
ELEVATION INDICATOR - LEVEL & SPOT

WINDOW OR LOUVER IDENTIFIER

KEYNOTE INDICATOR

PLAN NORTH & TRUE NORTH INDICATOR

VICINITY MAP



SHEET INDEX

GENERAL
A-001 COVER SHEET
A-002A TITLE 24
A-002B TITLE 24
A-003 GENERAL NOTES
A-004 RMS
A-005 CAL GREEN
A-006 CAL GREEN
A-007 SPECIFICATIONS

ARCHITECTURAL
A-100 SITE PLAN
A-101 1ST FLOOR PLAN
A-102 ACCESSORY STORAGE
A-103 1ST FLOOR CEILING PLAN
A-105 ROOF PLAN & DETAILS
A-106 1ST FLOOR POWER PLAN
A-200 EXTERIOR ELEVATIONS
A-201 EXTERIOR ELEVATIONS
A-202 INTERIOR ELEVATIONS
A-500 BUILDING SECTIONS
A-501 BUILDING SECTIONS
A-502 TYPICAL DETAILS
A-503 DETAILS
A-504 MECHANICAL DETAILS
A-505 PLUMBING DETAILS

STRUCTURAL
S0.0 NOTES
S0.0A NOTES
S0.1 TYPICAL DETAILS
S1 FOUNDATION PLAN
S2 FIRST FLOOR FRAMING PLAN
S3 LOWER ROOF & SECOND FLOOR FRAMING PLAN
S4 HIGH ROOF FRAMING PLAN
SD1 DETAILS
SD2 DETAILS
SD3 DETAILS
SD4 DETAILS
SD5 DETAILS
SD6 DETAILS

CODES & REGULATIONS

TITLE 24: (PART 2) 2022 CALIFORNIA BUILDING CODE
TITLE 24: (PART 2.5) 2022 CALIFORNIA RESIDENTIAL CODE
TITLE 24: (PART 3) 2022 CALIFORNIA ELECTRICAL CODE
TITLE 24: (PART 4) 2022 CALIFORNIA MECHANICAL CODE
TITLE 24: (PART 5) 2022 CALIFORNIA PLUMBING CODE
TITLE 24: (PART 6) 2022 CALIFORNIA ENERGY CODE
TITLE 24: (PART 9) 2022 CALIFORNIA FIRE CODE
TITLE 24: (PART 11) 2022 CALIFORNIA GREEN BUILDING STANDARDS
SANTA CLARA COUNTY MUNICIPAL CODE

DEFERED SUBMITTALS

1- FIRE SPRINKLER
2- SOLAR PANEL
3- SWIMMING POOL

PROJECT DIRECTORY

ARCHITECT/ENGINEER
ALI JABER ARCHITECT
PHONE: 949-264-3320
EMAIL: ali@alijaberarch.com

OWNER
TREVAR & CAMILA SHYSHKA
1285 W EDMUNDSON AVE
MORGAN HILL, CA 95037
PHONE: 408-500-6229
EMAIL: trevar@clearskybuildersinc.com

SCOPE OF PROJECT

THE PROJECT CONSISTS OF A NEW SINGLE FAMILY HOME AND ATTACHED GARAGE RE-BUILD IN A PREVIOUSLY DEVELOPED PROPERTY THAT WAS DESTROYED DUE TO A FIRE. ALSO PROSED IS THE LEGALIZATION OF AN EXISTING 30 YEAR OLD ACCESSORY STRUCTURE

PROJECT DATA

LEGAL DESCRIPTION:
APN # 773-11-010
TRACT # 87018
GROSS LOT AREA - 39,050 SQ FT (0.91 ACRES)
NET LOT AREA - 37,825 SQ FT (0.87 ACRES)
CONSTRUCTION TYPE - V-B
ZONE - RR-d1-sr (RESIDENTIAL)
FIRE HAZARD - VHFHSZ
HCP RURAL DEVELOPMENT - IN
OCCUPANCY R-3 (RESIDENTIAL) / U (GARAGE)
SPRINKLER - YES (DEFFERED SUBMITTAL)
STORIES - 1
FEMA FLOOD ZONE: D

ZONING:
REQUIRED SETBACKS PRIMARY STRUCTURE: FRONT (30FT) , SIDE (20FT UNDER 1 ACRE) , REAR (30FT)
BUILDING HEIGHT: 35 FT MAX , 25'-6" PROVIDED

FLOOR AREA:
(N) 1ST FLOOR: 3,950 SF
(N) ABOVE CEILING STORAGE : 405 SF
(N) GARAGE: 519 SF
TOTAL BUILDING AREA: 4,924 SF

(N) COVERED PORCH: 50 SF

(N) UNCOVERED REAR PATIO: 1,012 SF

(E) ACCESSORY STRUCTURES = 1,950 SF
(E) ACCESSORY STRUCTURE (TO BE LEGALIZED)= 1,440 SF
LOT COVERAGE = 3,950 + 519 + 150 +1,012 + 3,335 / 39,050 = 22.9%

FLOOR AREA BREAKDOWN:

GROSS LOT AREA: **39,050 SF**
NET LOT AREA: **37,825 SF**

FLOOR AREA CALCULATIONS -
(N) PRIMARY RESIDENCE: 3,950 SF
(N) GARAGE: 519 SF
(N) COVERED PORCH: 50 SF
(N) ABOVE CEILING STORAGE : 405 SF
TOTAL: 4,924 SF

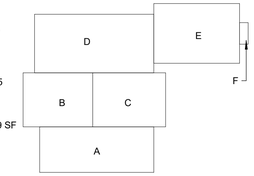
(E) ACCESSORY STRUCTURES: 3,335 SF
TOTAL: 3,335 SF

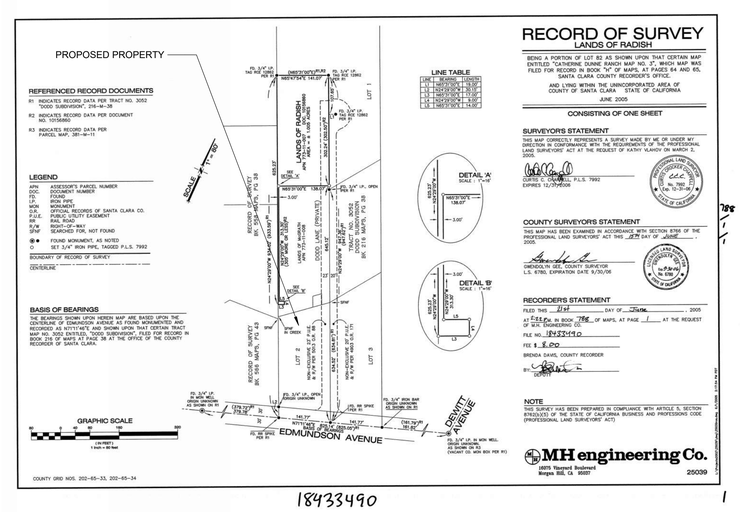
GRAND TOTAL: 8,259 SF

F.A.R : **.22**

GRADING QUANTITIES :	CUT	FILL	NET	MAX CUT HT	MAX FILL HT
BUILDING PADS:	125 CY			18 IN	
DRIVEWAY:	15 CY			4 IN	
SITE GRADING:		0			
RETAINING WALL:					

AREA DESIGNATION	DIMENSION	AREA
A	20 X 48	960
B	23 X 29	667
C	23 X 30	690
D	24.5 X 50	1,225
E	25 X 36	900
F	3 X 9	27
TOTAL		4,469 SF





RECORD OF SURVEY
LANDS OF RADISH

BEING A PORTION OF LOT 82 AS SHOWN UPON THAT CERTAIN MAP ENTITLED "CATHERINE DANE RANCH NO. 3", WHICH MAP WAS FILED FOR RECORD IN BOOK "H" OF MAPS, AT PAGES 64 AND 65, SANTA CLARA COUNTY RECORDER'S OFFICE.

AND LYING WITHIN THE UNINCORPORATED AREA OF COUNTY OF SANTA CLARA STATE OF CALIFORNIA

JUNE 2005

CONSISTING OF ONE SHEET

SURVEYOR'S STATEMENT

THIS MAP CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECTION IN CONFORMANCE WITH THE REQUIREMENTS OF THE PROFESSIONAL LAND SURVEYORS' ACT AT THE REQUEST OF KATHY VLAHOV ON MARCH 3, 2005.

CURTIS C. CRABB, P.L.S. 7992
EXPIRES 12/31/2006

COUNTY SURVEYOR'S STATEMENT

THIS MAP HAS BEEN EXAMINED IN ACCORDANCE WITH SECTION 8766 OF THE PROFESSIONAL LAND SURVEYORS' ACT THIS 27TH DAY OF JUNE, 2005

GWENDOLYN GEE, COUNTY SURVEYOR
L.S. 8780, EXPIRATION DATE 9/30/06

RECORDERS STATEMENT

FILED THIS 21st DAY OF July, 2005
AT 4:55 P.M. IN BOOK 786 OF MAPS, AT PAGE 1, AT THE REQUEST OF M.H. ENGINEERING CO.
FILE NO. 18433490
FEE $ 8.00
BRENDA DAVIS, COUNTY RECORDER
BY: DEPUTY

NOTE

THIS SURVEY HAS BEEN PREPARED IN COMPLIANCE WITH ARTICLE 5, SECTION 8761(A)(3) OF THE STATE OF CALIFORNIA BUSINESS AND PROFESSIONS CODE (PROFESSIONAL LAND SURVEYORS' ACT)

MH engineering Co.
16975 Vineyard Boulevard
Morgan Hill, CA 95037
25039

ALI JABER ARCHITECT
4212 W.BURBANK BLVD
BURBANK, CA 91505
P: 949.264.3320
WWW.alijaberarch.com

LICENSED ARCHITECT ALI JABER C38901 REN 01-31-25 STATE OF CALIFORNIA

SEAL

DATE: 11/05/2024

PROJECT
SHYSHKA RESIDENCE

1285 W. EDMUNDSON
MORGAN HILL, CA 95037

CLIENT
TREVAR & CAMILA SHYSHKA

ISSUED

MARK	DATE	DESCRIPTION

TITLE
COVER SHEET

SHEET
A-001

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD **CF1R-PRF-01-E**

Project Name: 1285 W Edmundson **Calculation Date/Time:** 2024-06-18T11:56:25-07:00 **(Page 1 of 17)**

Calculation Description: Title 24 Analysis **Input File Name:** 240297_RD.ribd22x

GENERAL INFORMATION					
01	**Project Name**	1285 W Edmundson			
02	**Run Title**	Title 24 Analysis			
03	**Project Location**	1285 W Edmundson			
04	**City**	Morgan Hill	05	**Standards Version**	2022
06	**Zip code**	95037	07	**Software Version**	EnergyPro 9.2
08	**Climate Zone**	4	09	**Front Orientation (deg/ Cardinal)**	45
10	**Building Type**	Single family	11	**Number of Dwelling Units**	1
12	**Project Scope**	Newly Constructed	13	**Number of Bedrooms**	3
14	**Addition Cond. Floor Area (ft²)**	0	15	**Number of Stories**	1
16	**Existing Cond. Floor Area (ft²)**	n/a	17	**Fenestration Average U-factor**	0.33
18	**Total Cond. Floor Area (ft²)**	3,950	19	**Glazing Percentage (%)**	25.90%
20	**ADU Bedroom Count**	n/a	21	**ADU Conditioned Floor Area**	n/a
22	**Fuel Type**	Natural gas	23	**No Dwelling Unit:**	No

COMPLIANCE RESULTS	
01	**Building Complies with Computer Performance**
02	**This building incorporates features that require field testing and/or verification by a certified HERS rater under the supervision of a CEC-approved HERS provider.**
03	**This building incorporates one or more Special Features shown below**

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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD **CF1R-PRF-01-E**

Project Name: 1285 W Edmundson **Calculation Date/Time:** 2024-06-18T11:56:25-07:00 **(Page 2 of 17)**

Calculation Description: Title 24 Analysis **Input File Name:** 240297_RD.ribd22x

ENERGY DESIGN RATINGS

	Energy Design Ratings			Compliance Margins		
	Source Energy (EDR1)	Efficiency[1] EDR (EDR2efficiency)	Total[2] EDR (EDR2total)	Source Energy (EDR1)	Efficiency[1] EDR (EDR2efficiency)	Total[2] EDR (EDR2total)
Standard Design	36.7	44.5	29.6			
Proposed Design	23.5	42.9	28	13.2	1.6	1.6

RESULT[3]: PASS

[1]Efficiency EDR includes improvements like a better building envelope and more efficient equipment
[2]Total EDR includes efficiency and demand response measures such as photovoltaic (PV) system and batteries
[3]Building complies when source energy, efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded

- Standard Design PV Capacity: 3.39 kWdc
- PV System resized to 3.39 kWdc (a factor of 3.388) to achieve 'Standard Design PV' PV scaling

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Project Name: 1285 W Edmundson **Calculation Date/Time:** 2024-06-18T11:56:25-07:00 **(Page 3 of 17)**

Calculation Description: Title 24 Analysis **Input File Name:** 240297_RD.ribd22x

ENERGY USE SUMMARY

Energy Use	Standard Design Source Energy (EDR1) (kBtu/ft² -yr)	Standard Design TDV Energy (EDR2) (kTDV/ft² -yr)	Proposed Design Source Energy (EDR1) (kBtu/ft² -yr)	Proposed Design TDV Energy (EDR2) (kTDV/ft² -yr)	Compliance Margin (EDR1)	Compliance Margin (EDR2)
Space Heating	4.23	18.82	2.23	16.8	2	2.02
Space Cooling	0.32	18.46	0.38	21.32	-0.06	-2.86
IAQ Ventilation	0.26	2.81	0.26	2.81	0	0
Water Heating	0.58	6.13	0.34	3.99	0.24	2.14
Self Utilization/Flexibility Credit				-0.42		0.42
Efficiency Compliance Total	**5.39**	**46.22**	**3.21**	**44.5**	**2.18**	**1.72**
Photovoltaics	-0.58	-19.5	-0.58	-20.54		
Battery			-0.56	0		
Flexibility						
Indoor Lighting	0.5	4.96	0.5	4.96		
Appl. & Cooking	1.1	7.1	1.1	7.11		
Plug Loads	1.06	11.08	1.06	11.08		
Outdoor Lighting	0.15	1.32	0.15	1.32		
TOTAL COMPLIANCE	**7.62**	**51.18**	**4.88**	**48.43**		

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Project Name: 1285 W Edmundson **Calculation Date/Time:** 2024-06-18T11:56:25-07:00 **(Page 4 of 17)**

Calculation Description: Title 24 Analysis **Input File Name:** 240297_RD.ribd22x

ENERGY USE INTENSITY

	Standard Design (kBtu/ft² - yr)	Proposed Design (kBtu/ft² - yr)	Compliance Margin (kBtu/ft² - yr)	Margin Percentage
Gross EUI[1]	9.86	7.21	2.65	26.88
Net EUI[2]	6.28	3.63	2.65	42.2

Notes
1. Gross EUI is Energy Use Total (not including PV) / Total Building Area.
2. Net EUI is Energy Use Total (including PV) / Total Building Area.

REQUIRED PV SYSTEMS

01	02	03	04	05	06	07	08	09	10	11	12
DC System Size (kWdc)	**Exception**	**Module Type**	**Array Type**	**Power Electronics**	**CFI**	**Azimuth (deg)**	**Tilt Input**	**Array Angle (deg)**	**Tilt: (x in 12)**	**Inverter Eff. (%)**	**Annual Solar Access (%)**
3.39	NA	Standard (14-17%)	Fixed	none	true	150-270	n/a	n/a	<=7:12	96	98

BATTERY SYSTEMS

01	02	03	04	05	06	07
Control	**Capacity (kWh)**	**Charging**		**Discharging**		**Round Trip Efficiency**
		Charging Efficiency	**Charging Rate (kW)**	**Discharging Efficiency**	**Discharging Rate (kW)**	
Basic	5	0.85	n/a	0.85	n/a	0.9

REQUIRED SPECIAL FEATURES

The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis.

- Battery System: 5 kWh (Self Utilization Credit taken)
- Insulation below roof deck
- Window overhangs and/or fins
- Northwest Energy Efficiency Alliance (NEEA) rated heat pump water heater; specific brand/model, or equivalent, must be installed

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Project Name: 1285 W Edmundson **Calculation Date/Time:** 2024-06-18T11:56:25-07:00 **(Page 5 of 17)**

Calculation Description: Title 24 Analysis **Input File Name:** 240297_RD.ribd22x

HERS FEATURE SUMMARY

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

- Quality insulation installation (QII)
- Indoor air quality ventilation
- Kitchen range hood
- Minimum Airflow
- Verified SEER/SEER2
- Verified Refrigerant Charge
- Fan Efficacy Watts/CFM
- Verified HSPF2
- Verified heat pump rated heating capacity
- Duct leakage testing

BUILDING - FEATURES INFORMATION

01	02	03	04	05	06	07
Project Name	**Conditioned Floor Area (ft²)**	**Number of Dwelling Units**	**Number of Bedrooms**	**Number of Zones**	**Number of Ventilation Cooling Systems**	**Number of Water Heating Systems**
1285 W Edmundson	3,950	1	3	2	0	1

ZONE INFORMATION

01	02	03	04	05	06	07
Zone Name	**Zone Type**	**HVAC System Name**	**Zone Floor Area (ft²)**	**Avg. Ceiling Height**	**Water Heating System 1**	**Status**
1st Floor Zone	Conditioned	New HVAC1	3950	9.83	DHW Sys 1	New
2nd Floor Zone	Conditioned	New HVAC1	1166	9.83	DHW Sys 1	New

OPAQUE SURFACES

01	02	03	04	05	06	07	08
Name	**Zone**	**Construction**	**Azimuth**	**Orientation**	**Gross Area (ft²)**	**Window and Door Area (ft2)**	**Tilt (deg)**
Northwest Wall (New)	1st Floor Zone	R-21 Wall	315	Right	718	179.8	90
Northeast Wall (New)	1st Floor Zone	R-21 Wall	45	Front	1042	314.4	90

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Project Name: 1285 W Edmundson **Calculation Date/Time:** 2024-06-18T11:56:25-07:00 **(Page 6 of 17)**

Calculation Description: Title 24 Analysis **Input File Name:** 240297_RD.ribd22x

OPAQUE SURFACES

01	02	03	04	05	06	07	08
Name	**Zone**	**Construction**	**Azimuth**	**Orientation**	**Gross Area (ft²)**	**Window and Door Area (ft2)**	**Tilt (deg)**
Southeast Wall (New)	1st Floor Zone	R-21 Wall	135	Left	718	64	90
Southwest Wall (New)	1st Floor Zone	R-21 Wall	225	Back	1042	245.4	90
Northwest Wall (New) 2	2nd Floor Zone	R-21 Wall	315	Right	462	250	90
Northeast Wall (New) 2	2nd Floor Zone	R-21 Wall	45	Front	541	160.9	90
Southeast Wall (New) 2	2nd Floor Zone	R-21 Wall	135	Left	462	0	90
Southwest Wall (New) 2	2nd Floor Zone	R-21 Wall	225	Back	541	0	90
Roof 3	1st Floor Zone	R-38 Ceiling + R-21 Roof	n/a	n/a	2655	n/a	n/a
Roof 4	2nd Floor Zone	R-38 Ceiling + R-21 Roof	n/a	n/a	1079	n/a	n/a
Raised Floor	1st Floor Zone	R-19 Floor Crawlspace	n/a	n/a	3950	n/a	n/a
Interior Surface	1st Floor Zone	Interior Ceiling	n/a	n/a	1166	n/a	n/a
Interior Surface 2	2nd Floor Zone	Interior Floor	n/a	n/a	1166	n/a	n/a

OPAQUE SURFACES - CATHEDRAL CEILINGS

01	02	03	04	05	06	07	08	09	10	11
Name	**Zone**	**Construction**	**Azimuth**	**Orientation**	**Area (ft²)**	**Skylight Area (ft²)**	**Roof Rise (x in 12)**	**Roof Reflectance**	**Roof Emittance**	**Cool Roof**
Roof	1st Floor Zone	R-38 Ceiling + R-21 Roof1	0	n/a	129.1	129	1	0.1	0.85	No
Roof 2	2nd Floor Zone	R-38 Ceiling + R-21 Roof1	0	n/a	87.1	87	1	0.1	0.85	No

ATTIC

01	02	03	04	05	06	07	08
Name	**Construction**	**Type**	**Roof Rise (x in 12)**	**Roof Reflectance**	**Roof Emittance**	**Radiant Barrier**	**Cool Roof**
Attic 1st Floor Zone	Attic Roof1st Floor Zone	Ventilated	1	0.1	0.85	No	No

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Calculation Description: Title 24 Analysis **Input File Name:** 240297_RD.ribd22x

ATTIC

01	02	03	04	05	06	07	08
Name	**Construction**	**Type**	**Roof Rise (x in 12)**	**Roof Reflectance**	**Roof Emittance**	**Radiant Barrier**	**Cool Roof**
Attic 2nd Floor Zone	Attic Roof2nd Floor Zone	Ventilated	1	0.1	0.85	No	No

FENESTRATION / GLAZING

01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	**Type**	**Surface**	**Orientation**	**Azimuth**	**Width (ft)**	**Height (ft)**	**Mult.**	**Area (ft²)**	**U-factor**	**U-factor Source**	**SHGC**	**SHGC Source**	**Exterior Shading**
Northwest Window (New)	Window	Northwest Wall (New)	Right	315			1	24	0.3	NFRC	0.23	NFRC	Bug Screen
Northwest Window (New) 2	Window	Northwest Wall (New)	Right	315			1	8	0.3	NFRC	0.23	NFRC	Bug Screen
Northwest Window (New) 3	Window	Northwest Wall (New)	Right	315			1	25.5	0.3	NFRC	0.23	NFRC	Bug Screen
Northwest Window (New) 4	Window	Northwest Wall (New)	Right	315			1	45	0.3	NFRC	0.23	NFRC	Bug Screen
Northwest Door (New)	Window	Northwest Wall (New)	Right	315			1	77.3	0.3	NFRC	0.23	NFRC	Bug Screen
Northeast Window (New)	Window	Northeast Wall (New)	Front	45			1	37	0.3	NFRC	0.23	NFRC	Bug Screen
Northeast Window (New) 2	Window	Northeast Wall (New)	Front	45			1	37	0.3	NFRC	0.23	NFRC	Bug Screen
Northeast Window (New) 3	Window	Northeast Wall (New)	Front	45			1	25.5	0.3	NFRC	0.23	NFRC	Bug Screen

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FENESTRATION / GLAZING

01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	**Type**	**Surface**	**Orientation**	**Azimuth**	**Width (ft)**	**Height (ft)**	**Mult.**	**Area (ft²)**	**U-factor**	**U-factor Source**	**SHGC**	**SHGC Source**	**Exterior Shading**
Northeast Window (New) 4	Window	Northeast Wall (New)	Front	45			1	25.5	0.3	NFRC	0.23	NFRC	Bug Screen
Northeast Window (New) 5	Window	Northeast Wall (New)	Front	45			1	24.2	0.3	NFRC	0.23	NFRC	Bug Screen
Northeast Door (New)	Window	Northeast Wall (New)	Front	45			1	77.3	0.3	NFRC	0.23	NFRC	Bug Screen
Northeast Window (New) 6	Window	Northeast Wall (New)	Front	45			1	24.2	0.3	NFRC	0.23	NFRC	Bug Screen
Northeast Window (New) 7	Window	Northeast Wall (New)	Front	45			1	9	0.3	NFRC	0.23	NFRC	Bug Screen
Southeast Window (New)	Window	Southeast Wall (New)	Left	135			1	20	0.3	NFRC	0.23	NFRC	Bug Screen
Southeast Window (New) 2	Window	Southeast Wall (New)	Left	135			1	20	0.3	NFRC	0.23	NFRC	Bug Screen
Southwest Window (New)	Window	Southwest Wall (New)	Back	225			1	10	0.3	NFRC	0.23	NFRC	Bug Screen
Southwest Window (New) 2	Window	Southwest Wall (New)	Back	225			1	41	0.3	NFRC	0.23	NFRC	Bug Screen
Southwest Window (New) 3	Window	Southwest Wall (New)	Back	225			1	41	0.3	NFRC	0.23	NFRC	Bug Screen

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FENESTRATION / GLAZING

01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	**Type**	**Surface**	**Orientation**	**Azimuth**	**Width (ft)**	**Height (ft)**	**Mult.**	**Area (ft²)**	**U-factor**	**U-factor Source**	**SHGC**	**SHGC Source**	**Exterior Shading**
Southwest Window (New) 4	Window	Southwest Wall (New)	Back	225			1	41	0.3	NFRC	0.23	NFRC	Bug Screen
Southwest Door (New)	Window	Southwest Wall (New)	Back	225			1	27	0.3	NFRC	0.23	NFRC	Bug Screen
Southwest Window (New) 5	Window	Southwest Wall (New)	Back	225			1	24.2	0.3	NFRC	0.23	NFRC	Bug Screen
Southwest Window (New) 6	Window	Southwest Wall (New)	Back	225			1	24.2	0.3	NFRC	0.23	NFRC	Bug Screen
Southwest Window (New) 7	Window	Southwest Wall (New)	Back	225			1	10	0.3	NFRC	0.23	NFRC	Bug Screen
Northwest Window (New) 5	Window	Northwest Wall (New) 2	Right	315	10	8	1	80	0.3	NFRC	0.23	NFRC	Bug Screen
Northwest Window (New) 6	Window	Northwest Wall (New) 2	Right	315	10	8	1	80	0.3	NFRC	0.23	NFRC	Bug Screen
Northwest Door (New) 2	Window	Northwest Wall (New) 2	Right	315	10	9	1	90	0.3	NFRC	0.23	NFRC	Bug Screen
Northeast Window (New) 8	Window	Northeast Wall (New) 2	Front	45			1	15.3	0.3	NFRC	0.23	NFRC	Bug Screen

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SEAL

DATE: 11/05/2024

PROJECT
SHYSHKA RESIDENCE

1285 W. EDMUNDSON
MORGAN HILL, CA 95037

CLIENT
TREVAR & CAMILA SHYSHKA

ISSUED

MARK	DATE	DESCRIPTION

TITLE
TITLE 24

SHEET
A-002A

FENESTRATION / GLAZING

01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Type	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft^2)	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading
Northeast Window (New) 9	Window	Northeast Wall (New) 2	Front	45			1	15.3	0.3	NFRC	0.23	NFRC	Bug Screen
Northeast Window (New) 10	Window	Northeast Wall (New) 2	Front	45			1	56.3	0.3	NFRC	0.23	NFRC	Bug Screen
Northeast Window (New) 11	Window	Northeast Wall (New) 2	Front	45			1	37	0.3	NFRC	0.23	NFRC	Bug Screen
Northeast Window (New) 12	Window	Northeast Wall (New) 2	Front	45			1	37	0.3	NFRC	0.23	NFRC	Bug Screen
Skylight (New)	Skylight	Roof		0			1	9	0.47	NFRC	0.25	NFRC	
Skylight (New) 2	Skylight	Roof		0			1	9	0.47	NFRC	0.25	NFRC	
Skylight (New) 3	Skylight	Roof		0			1	18	0.47	NFRC	0.25	NFRC	
Skylight (New) 4	Skylight	Roof		0			1	9	0.47	NFRC	0.25	NFRC	
Skylight (New) 5	Skylight	Roof		0			1	18	0.47	NFRC	0.25	NFRC	
Skylight (New) 6	Skylight	Roof		0			1	16	0.47	NFRC	0.25	NFRC	
Skylight (New) 7	Skylight	Roof		0			1	16	0.47	NFRC	0.25	NFRC	

FENESTRATION / GLAZING

01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Type	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft^2)	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading
Skylight (New) 8	Skylight	Roof		0			1	16	0.47	NFRC	0.25	NFRC	
Skylight (New) 9	Skylight	Roof		0			1	18	0.47	NFRC	0.25	NFRC	
Skylight (New) 10	Skylight	Roof 2		0			1	78	0.47	NFRC	0.25	NFRC	
Skylight (New) 11	Skylight	Roof 2		0			1	9	0.47	NFRC	0.25	NFRC	

OPAQUE DOORS

01	02	03	04
Name	Side of Building	Area (ft^2)	U-factor
Solid Core Door	Northeast Wall (New)	54.7	0.2
Solid Core Door 2	Southeast Wall (New)	24	0.2
Solid Core Door 3	Southwest Wall (New)	27	0.2

OVERHANGS AND FINS

01	02	03	04	05	06	07	08	09	10	11	12	13	14
Window	Overhang					Left Fin				Right Fin			
	Depth	Dist Up	Left Extent	Right Extent	Flap Ht.	Depth	Top Up	Dist L	Bot Up	Depth	Top Up	Dist R	Bot Up
Northwest Window (New) 5	7	0.1	7	7	0	0	0	0	0	0	0	0	0
Northwest Window (New) 6	7	0.1	7	7	0	0	0	0	0	0	0	0	0
Northwest Door (New) 2	7	0.1	7	7	0	0	0	0	0	0	0	0	0

OPAQUE SURFACE CONSTRUCTIONS

01	02	03	04	05	06	07	08
Construction Name	Surface Type	Construction Type	Framing	Total Cavity R-value	Interior / Exterior Continuous R-value	U-factor	Assembly Layers
R-21 Wall	Exterior Walls	Wood Framed Wall	2x6 @ 16 in. O. C.	R-21	None / None	0.069	Inside Finish: Gypsum Board Cavity / Frame: R-21 / 2x6 Exterior Finish: 3 Coat Stucco
R-38 Ceiling + R-21 Roof1	Cathedral Ceilings	Wood Framed Ceiling	2x4 @ 24 in. O. C.	R-38	21 / None	0.018	Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: R-38 / 2x4 Sheathing / Insulation: R-21 Sheathing Inside Finish: Gypsum Board
Attic Roof1st Floor Zone	Attic Roofs	Wood Framed Ceiling	2x6 @ 24 in. O. C.	R-21	None / 0	0.051	Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: R-20.4 / 2x6 Around Roof Joists: R-0.6 insul.
Attic Roof2nd Floor Zone	Attic Roofs	Wood Framed Ceiling	2x6 @ 24 in. O. C.	R-21	None / 0	0.051	Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: R-20.4 / 2x6 Around Roof Joists: R-0.6 insul.
R-19 Floor Crawlspace	Floors Over Crawlspace	Wood Framed Floor	2x6 @ 16 in. O. C.	R-19	None / None	0.05	Floor Surface: Carpeted Floor Deck: Wood Siding/sheathing/decking Cavity / Frame: R-19 in 5-1/2 in. (R-18) / 2x6
R-38 Ceiling + R-21 Roof	Ceilings (below attic)	Wood Framed Ceiling	2x4 @ 24 in. O. C.	R-38	None / None	0.025	Over Ceiling Joists: R-28.9 insul. Cavity / Frame: R-9.1 / 2x4 Inside Finish: Gypsum Board

OPAQUE SURFACE CONSTRUCTIONS

01	02	03	04	05	06	07	08
Construction Name	Surface Type	Construction Type	Framing	Total Cavity R-value	Interior / Exterior Continuous R-value	U-factor	Assembly Layers
Interior Floor	Interior Floors	Wood Framed Floor	2x12 @ 16 in. O. C.	R-0	None / None	0.196	Floor Surface: Carpeted Floor Deck: Wood Siding/sheathing/decking Cavity / Frame: no insul. / 2x12 Ceiling Below Finish: Gypsum Board
Interior Ceiling	Interior Ceiling	Wood Framed Ceiling	2x4 @ 16 in. O. C.	R-0	None / None	0.202	Floor Surface: Carpeted Floor Deck: Wood Siding/sheathing/decking Cavity / Frame: no insul. / 2x4 Ceiling Below Finish: Gypsum Board

BUILDING ENVELOPE - HERS VERIFICATION

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

WATER HEATING SYSTEMS

01	02	03	04	05	06	07	08	09
Name	System Type	Distribution Type	Water Heater Name	Number of Units	Solar Heating System	Compact Distribution	HERS Verification	Water Heater Name (#)
DHW Sys 1	Domestic Hot Water (DHW)	Standard	DHW Heater 1	1	n/a	None	n/a	DHW Heater 1 (1)

WATER HEATERS - NEEA HEAT PUMP

01	02	03	04	05	06	07	08
Name	# of Units	Tank Vol. (gal)	NEEA Heat Pump Brand	NEEA Heat Pump Model	Tank Location	Duct Inlet Air Source	Duct Outlet Air Source
DHW Heater 1	1	80	Rheem	PROPH80 T2 RH37515 (80 gal, JA13)	Outside	1st Floor Zone	1st Floor Zone

WATER HEATING - HERS VERIFICATION

01	02	03	04	05	06	07
Name	Pipe Insulation	Parallel Piping	Compact Distribution	Compact Distribution Type	Recirculation Control	Shower Drain Water Heat Recovery
DHW Sys 1 - 1/1	Not Required	Not Required	Not Required	None	Not Required	Not Required

SPACE CONDITIONING SYSTEMS

01	02	03	04	05	06	07	08	09
Name	System Type	Heating Unit Name	Heating Equipment Count	Cooling Unit Name	Cooling Equipment Count	Fan Name	Distribution Name	Required Thermostat Type
New HVAC1	Heat pump heating cooling	Heat Pump System 1	2	Heat Pump System 1	2	HVAC Fan 1	Air Distribution System 1	Setback

HVAC - HEAT PUMPS

01	02	03	04	05	06	07	08	09	10	11	12	13
Name	System Type	Number of Units	Heating				Cooling			Zonally Controlled	Compressor Type	HERS Verification
			Heating Efficiency Type	HSPF/HSPF2/COP	Cap 47	Cap 17	Cooling Efficiency Type	SEER/SEER2	EER/EER2/CEER			
Heat Pump System 1	Central split HP	2	HSPF2	9.5	60000	48000	EER2SEER2	15	11.7	Not Zonal	Single Speed	Heat Pump System 1-hers-htpump

HVAC HEAT PUMPS - HERS VERIFICATION

01	02	03	04	05	06	07	08	09
Name	Verified Airflow	Airflow Target	Verified EER/EER2	Verified SEER/SEER2	Verified Refrigerant Charge	Verified HSPF/HSPF2	Verified Heating Cap 47	Verified Heating Cap 17
Heat Pump System 1-hers-htpump	Required	350	Not Required	Required	Yes	Yes	Yes	Yes

HVAC - DISTRIBUTION SYSTEMS

01	02	03	04	05	06	07	08	09	10	11	12
Name	Type	Design Type	Duct Ins. R-value		Duct Location		Surface Area		Bypass Duct	Duct Leakage	HERS Verification
			Supply	Return	Supply	Return	Supply	Return			
Air Distribution System 1	Unconditioned attic	Non-Verified	R-6	R-6	Attic	Attic	n/a	n/a	No Bypass Duct	Sealed and Tested	Air Distribution System 1-hers-dist

HVAC DISTRIBUTION - HERS VERIFICATION

01	02	03	04	05	06	07	08	09
Name	Duct Leakage Verification	Duct Leakage Target (%)	Verified Duct Location	Verified Duct Design	Buried Ducts	Deeply Buried Ducts	Low-leakage Air Handler	Low Leakage Ducts Entirely in Conditioned Space
Air Distribution System 1-hers-dist	Yes	5.0	Not Required	Not Required	Not Required	Credit not taken	Not Required	No

HVAC - FAN SYSTEMS

01	02	03	04
Name	Type	Fan Power (Watts/CFM)	Name
HVAC Fan 1	HVAC Fan	0.45	HVAC Fan 1-hers-fan

HVAC FAN SYSTEMS - HERS VERIFICATION

01	02	03
Name	Verified Fan Watt Draw	Required Fan Efficacy (Watts/CFM)
HVAC Fan 1-hers-fan	Required	0.45

INDOOR AIR QUALITY (IAQ) FANS

01	02	03	04	05	06	07	08	09
Dwelling Unit	Airflow (CFM)	Fan Efficacy (W/CFM)	IAQ Fan Type	Includes Heat/Energy Recovery?	IAQ Recovery Effectiveness - SRE/ASRE	Includes Fault Indicator Display?	HERS Verification	Status
SFam IAQVentRpt	174	0.35	Exhaust	No	n/a / n/a	No	Yes	

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Raffi Dar	Documentation Author Signature: Raffi Dar
Company: Precise Green Consulting Inc.	Signature Date: 06/18/2024
Address: 140 Smith Dr	CEA/ HERS Certification Identification (If applicable):
City/State/Zip: Claremont, CA 91711	Phone: 818-291-3919

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

1. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design identified on this Certificate of Compliance.
2. I certify that the energy features and performance specifications identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
3. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

Responsible Designer Name: Ali Jaber	Responsible Designer Signature: Ali Jaber
Company: Ali Jaber Architect	Date Signed: 06/18/2024
Address: 4212 W Burbank Blvd	License:
City/State/Zip: Burbank, CA 91505	Phone: 9492643320

Digitally signed by California Home Energy Efficiency Rating Services (CHEERS). This digital signature is provided in order to secure the content of this registered document, and in no way implies Registration Provider responsibility for the accuracy of the information.

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BURBANK, CA 91505
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LICENSED ARCHITECT ALI JABER C38901 REN 01-31-25 STATE OF CALIFORNIA

SEAL

DATE: 11/05/2024

PROJECT
SHYSHKA RESIDENCE

1285 W. EDMUNDSON
MORGAN HILL, CA 95037

CLIENT
TREVAR & CAMILA SHYSHKA

ISSUED

MARK	DATE	DESCRIPTION

TITLE
TITLE 24

SHEET
A-002B

PLAN NOTES

2. LIGHT, VENTILATION, ROOM DIMENSIONS
2.1 REQUIRED WINDOW AREA FOR LIGHT SHALL BE NOT LESS THAN 8 PERCENT OF THE FLOOR AREA OF THE ROOM SERVED; THE MINIMUM OPENABLE AREA TO THE OUTDOORS SHALL BE 4 PERCENT OF THE FLOOR AREA BEING VENTILATED. THE GLAZED AREA NEED NOT BE OPENABLE FOR VENTILATION WHEN A WHOLE-HOUSE VENTILATION SYSTEM IS INSTALLED. (R303.1)
2.2 EVERY SLEEPING ROOM AND ANY BASEMENT MUST HAVE AT LEAST ONE OPENABLE WINDOW OR DOOR APPROVED FOR EMERGENCY RESCUE WITH A MINIMUM NET CLEAR OPENING OF 5.7 SQUARE FEET, EXCEPT THE WINDOWS AT THE GRADE FLOOR SHALL HAVE A MINIMUM NET AREA OF 5.0 SQUARE FEET. THE MINIMUM NET VERTICAL OPENING DIMENSION SHALL BE 24". THE MINIMUM NET CLEAR OPENING WIDTH DIMENSION SHALL BE 20". THE BOTTOM OF THE CLEAR OPENING SHALL BE NO MORE THAN 44" FROM THE FLOOR. (R 310.1)
2.3 BATHROOMS, WATER CLOSET COMPARTMENTS AND SIMILAR ROOMS SHALL HAVE WINDOW AT LEAST 3 SQ. FEET IN AREA, HALF OF WHICH MUST BE OPENABLE, OR MECHANICAL VENTILATION MUST BE PROVIDED. (R303.3)
2.4 EACH BATHROOM CONTAINING A BATHING FACILITY SHALL BE MECHANICALLY VENTILATED FOR THE PURPOSES OF HUMIDITY CONTROL. (R303.3.1)
2.5 PROVIDE VENTILATION FOR PRODUCTS OF COMBUSTION TO OUTSIDE AIR. (CMC 802.0)
2.6 ATTIC VENTILATION: 1/150 OF ATTIC AREA. IF 40% – 50% OF THE VENTS ARE NO MORE THAN 3 FEET BELOW THE RIDGE OR HIGHEST POINT OF THE ROOF AREA: THEN THE RATIO MAY BE REDUCED TO 1/300. (R806.2) UNVENTED ATTICS MAY BE ALLOWED IF MEETING THE REQUIREMENTS OF R806.5.
2.7 ENCLOSED RAFTER SPACES SHALL HAVE A MINIMUM 1" SPACE BETWEEN THE INSULATION AND ROOF SHEATHING AND AT THE LOCATION OF ALL EAVE AND CORNICE VENTS. (R806.3)
2.8 UNDERFLOOR SPACE SHALL HAVE A VENTILATION OPENING AREA OF 1/150 SQUARE FEET OF UNDERFLOOR AREA. IF A CLASS I VAPOR RETARDER IS USED THE RATIO MAY BE REDUCED TO 1/1500. ONE OPENING SHALL BE PLACED WITHIN 3 FEET OF EACH BUILDING CORNER. OPENINGS SHALL BE COVERED
WITH A COVERING HAVING OPENINGS NO GREATER THAN 1/4". (R408.2)
2.9 HEATING SYSTEM IS REQUIRED TO MAINTAIN 68 DEGREES AT 3 FEET ABOVE FLOOR LEVEL AND 2 FEET FROM EXTERIOR WALLS IN ALL HABITABLE ROOM. (R303.9)
2.10 AIR INFILTRATION, INSULATION, SPACE HEATING, SPACE COOLING, WATER HEATING, ETC SHALL MEET CA ENERGY COMMISSION STANDARDS.
2.11 ALL HABITABLE ROOMS EXCEPT KITCHENS SHALL BE AT LEAST 70 SQUARE FEET IN AREA AND SHALL HAVE A WIDTH OF AT LEAST 7 FEET. IN ADDITION THERE SHALL BE AT LEAST ONE ROOM WITH A MINIMUM OF 120 SQUARE FEET IN EACH DWELLING. MINIMUM CEILING HEIGHT SHALL BE 7 FEET. SEE CRC FOR
EXCEPTIONS. (R304/R305)
3. DOORS, STAIRWAYS AND LANDINGS (INCLUDING DECKS)
3.1. REQUIRED EGRESS DOOR SHALL BE SIDE HINGED AND HAVE A MINIMUM NET CLEAR WIDTH OF 32" AND A MINIMUM HEIGHT OF 78". (R311.2)
3.2. THERE SHALL BE A LANDING AT EACH SIDE OF ALL DOORS NOT MORE THAN 1 1/2" LOWER THAN THE THRESHOLD AT THE REQUIRED EGRESS DOOR, AND NOT MORE THAN 7 3/4" FOR OTHER EXTERIOR DOORS. THE LANDING SHALL BE AT LEAST AS WIDE AS THE DOOR SERVED AND 36" MINIMUM LENGTH MEASURED IN THE DIRECTION OF TRAVEL. A LANDING IS NOT REQUIRED AT DOORS OTHER THAN THE REQUIRED EGRESS DOOR WHERE A STAIRWAY OF TWO OR FEWER RISERS IS LOCATED ON THE EXTERIOR OF THE DOOR, AND THE DOOR DOES NOT SWING OVER THE STAIRWAY. (R311.3)
3.3. STAIRWAY RISE SHALL BE 4" MIN AND 7.75" MAX. RUN SHALL BE 10" MIN. HEADROOM SHALL BE 80" MINIMUM. WIDTH SHALL BE 36" MINIMUM.
HANDRAILS SHALL PROVIDE GRASPABILITY AND BE 34"–38" ABOVE TREAD NOSING WITH OPENINGS LESS THAN 4 3/8" CLEAR, EXCEPT OPENINGS FORMED BY THE
RISER, TREAD, AND BOTTOM RAIL OF THE GUARD MAY BE 6" MAXIMUM DIAMETER. (R 311.7 & R312.1.3 EX. 1 & 2)
3.4. ENCLOSED USEABLE SPACE UNDER INTERIOR STAIRS SHALL BE FINISHED WITH 1/2" MIN. TYPE X GYPSUM BOARD (R302.7)
3.5. FIREBLOCKING IS REQUIRED IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN. (R302.11)
3.6. THERE SHALL BE A FLOOR OR LANDING AT THE TOP AND BOTTOM OF EACH STAIRWAY. THE WIDTH AND LENGTH OF LANDINGS SHALL BE NOT LESS THAN THE WIDTH OF THE STAIRWAY SERVED. A FLOOR OR LANDING IS NOT REQUIRED AT THE TOP OF AN INTERIOR FLIGHT OF STAIRS, INCLUDING STAIRS IN AN ENCLOSED GARAGE, PROVIDED A DOOR DOES NOT SWING OVER THE STAIRS. (R311.7.6)
3.7. GUARDS SHALL BE LOCATED ALONG OPEN SIDED WALKING SURFACES, INCLUDING STAIRS, RAMPS, LANDINGS, AND DECKS, THAT ARE MORE THAN 30" ABOVE THE FLOOR OR GRADE, MEASURED AT ANY POINT WITHIN 36" HORIZONTALLY. REQUIRED GUARDS SHALL BE NOT LESS THAN 42" ABOVE THE ADJACENT WALKING SURFACE. EXCEPT THAT HANDRAILS MAY BE CONSIDERED AS GUARDS AT STAIRWAYS. OPENINGS IN GUARDS SHALL NOT EXCEED 4". (R312)
3.8. EXTERIOR DECK SUPPORT POSTS SHALL BE CROSS BRACED IN TWO DIRECTIONS FOR LATERAL STABILITY.
3.9. FOR POSTS OVER 30" IN HEIGHT PROVIDE MECHANICAL CONNECTION AT POST BASE.
3.10. PROVIDE DETAIL AT JUNCTION OF EXTERIOR DECKING, WALL AND INTERIOR FLOOR FRAMING. SHOW ELEVATIONS, FLASHING, AND ANCHORAGE. DECK FRAMING SHALL BE POSITIVELY ATTACHED TO BUILDING FRAMING AT A MINIMUM OF 2 LOCATIONS WITHIN 24" OF EACH END OF THE DECK WITH HOLD-DOWN TENSION DEVICES HAVING AN ALLOWABLE DESIGN CAPACITY OF NOT LESS THAN 1500 POUNDS EACH, OR AT A MINIMUM OF 4 LOCATIONS WITH HOLD-DOWN TENSION DEVICES OF NOT LESS THAN 750 POUNDS ALLOWABLE DESIGN CAPACITY. (R507.2.4)
3.11. DECK FRAMING AND SUPPORT POSTS TO BE OF PRESERVATIVE TREATED OR NATURALLY DURABLE LUMBER. (R317.1) HARDWARE AND FASTENERS SHALL BE HOT-DIPPED GALVANIZED, STAINLESS STEEL, SILICON BRONZE, OR COPPER. (R317.3.1)
4. WEATHER AND CORROSION DAMAGE PREVENTION MEASURES
4.1. NATURALLY DURABLE WOOD OR PRESERVATIVE TREATED WOOD, PER AWPA U1, SHALL BE REQUIRED IN THE FOLLOWING LOCATIONS (R317.1):
A. WOOD JOISTS AND GIRDERS CLOSER THAN 18" OR 12", RESPECTIVELY, TO THE EXPOSED GROUND.
B. WOOD FRAMING MEMBERS THAT REST ON CONCRETE OR MASONRY AND ARE LESS THAN 8" FROM THE EXPOSED GROUND.
C. SILLS AND SLEEPERS ON A CONCRETE OR MASONRY SLAB THAT IS IN DIRECT CONTACT WITH THE GROUND UNLESS SEPARATED BY AN IMPERVIOUS MOISTURE BARRIER.
5. GARAGE & CARPORT
5.1. COMMON WALL BETWEEN GARAGE AND DWELLING SHALL HAVE 1/2" GYPSUM BOARD APPLIED ON THE GARAGE SIDE. GARAGE CEILING WITH HABITABLE SPACE ABOVE SHALL HAVE 5/8" TYPE X GYP BOARD APPLIED TO THE CEILING. CARPORTS WITH NO ENCLOSED USES ABOVE DO NOT NEED PROTECTION. (R302.6)
5.2. NO OPENINGS MAY BE PROVIDED BETWEEN A GARAGE AND A SLEEPING ROOM. OTHER OPENINGS SHALL BE EQUIPPED WITH SOLID WOOD OR STEEL DOORS 1 3/8" IN THICKNESS AND SHALL BE SELFCLOSING AND SELF-LATCHING. (R302.5.1)
5.3. GARAGE AND CARPORT FLOOR SURFACES SHALL BE OF APPROVED NONCOMBUSTIBLE MATERIAL. ASPHALTIC SURFACES SHALL BE PERMITTED AT GROUND LEVEL IN CARPORT. (R309.1 & R309.2)
5.4. APPLIANCES AND RECEPTACLES INSTALLED IN GARAGES AND CARPORTS GENERATING A GLOW, SPARK, OR FLAME SHALL BE LOCATED 18" MIN. ABOVE THE FLOOR UNLESS LISTED AS FLAMMABLE VAPOR IGNITION RESISTANT. PROVIDE PROTECTIVE BOLLARD OR OTHER IMPACT BARRIER OR LOCATED OUT OF THE NORMAL PATH FOR VEHICLES. (CMC 305.1)
6. ELECTRICAL
6.1. DO NOT INSTALL ELECTRICAL PANELS LARGER THAN 16 SQUARE INCHES IN RATED FIRE WALLS. GARAGE TO DWELLING UNIT SEPARATION IS NOT A RATED FIRE WALL. (R302.4.2) NEVER INSTALL ELECTRICAL PANELS IN CLOSET. MAINTAIN A CLEARANCE OF 36" IN FRONT OF THE PANELS. (CEC 110.26)
6.2. PROVIDE A MINIMUM OF ONE 20 AMP RECEPTACLE IN AREAS DESIGNATED FOR LAUNDRY EQUIPMENT. (CEC 210.52F)
6.3. KITCHENS AND DINING AREAS MUST HAVE A MINIMUM OF TWO 20 AMP CIRCUITS. KITCHEN COUNTER OUTLETS MUST BE INSTALLED IN EVERY COUNTER SPACE 12" OR WIDER, NOT GREATER THAN 4' O.C. AND WITHIN 24" OF THE END OF ANY COUNTER SPACE. (CEC 210.52)
6.4. GFCI OUTLETS ARE REQUIRED FOR ALL KITCHEN RECEPTACLES THAT ARE DESIGNED TO SERVE COUNTERTOP SURFACES, IN BATHROOMS, IN UNDERFLOOR SPACES AT OR BELOW GRADE LEVEL, IN EXTERIOR OUTLETS, IN LAUNDRY AREAS, AND IN ALL GARAGE OUTLETS NOT DEDICATED TO A SINGLE DEVICE OR APPLIANCE. (CEC 210.8) ALL DWELLINGS MUST HAVE AT LEAST ONE EXTERIOR OUTLET AT THE FRONT AND THE BACK OF THE DWELLING. (CEC 210.52E)
6.5. RECEPTACLES MUST BE INSTALLED AT 12' O.C. MAXIMUM IN WALLS. WALLS LONGER THAN 2 FEET AND HALLS LONGER THAN 10' MUST HAVE A RECEPTACLE. A RECEPTACLE MUST BE PROVIDED WITHIN 3' OF BATHROOM SINKS. (CEC 210.52)
6.6. BOND ALL METAL GAS AND WATER PIPES TO GROUND. ALL GROUND CLAMPS MUST BE ACCESSIBLE AND OF AN APPROVED TYPE. (CEC 250.104)
6.7. FURNACES INSTALLED IN ATTICS AND CRAWL SPACES MUST HAVE AN ACCESS PLATFORM (CATWALK IN ATTICS), LIGHT, LIGHT SWITCH, AND RECEPTACLE IN THE SPACE. (CMC 904.10)
6.8. NEW DWELLINGS MUST HAVE A 120V POWERED SMOKE ALARM IN EVERY SLEEPING ROOM, OUTSIDE EACH SLEEPING ROOM, ON EVERY STORY OF THE DWELLING, INCLUDING BASEMENTS AND HABITABLE ATTICS, BUT NOT INCLUDING CRAWL SPACES OR UNINHABITABLE ATTICS. (R314.3)
6.9. WHEN MORE THAN ONE SMOKE ALARM OR CARBON MONOXIDE ALARM IS REQUIRED THE ALARM DEVICES SHALL BE INTERCONNECTED. IF THE PROPOSED SCOPE OF WORK DOES NOT RESULT IN THE REMOVAL OF WALL AND CEILING FINISHES EXPOSING AREAS REQUIRING INSTALLATION, IN BUILDINGS BUILT PRIOR TO JANUARY 1, 2011, DEVICES MAY BE BATTERY OPERATED. (R314.4 & R315.7)
6.10. WHEN ALTERATIONS, REPAIRS, OR ADDITIONS REQUIRE A PERMIT OR SLEEPING ROOMS ARE ADDED OR CREATED, SMOKE ALARMS SHALL BE INSTALLED WHERE REQUIRED IN NEW DWELLINGS. (R314.2.2)
6.11. FOR NEW CONSTRUCTION AND WORK IN AN EXISTING DWELLING, WHERE AN ADDITION IS MADE TO AN EXISTING DWELLING OR A FUEL-BURNING APPLIANCE IS ADDED, CARBON MONOXIDE ALARMS SHALL BE INSTALLED IN SLEEPING ROOMS WITHIN WHICH FUEL- BURNING APPLIANCES ARE INSTALLED,
OUTSIDE OF EACH SLEEPING AREA, AND ON EACH OCCUPIABLE LEVEL. CARBON MONOXIDE ALARMS ARE NOT REQUIRED IN DWELLINGS WHERE THERE IS NO FUEL-FIRED APPLIANCE OR ATTACHED GARAGE. (R315.1; R315.2)
6.12. ALL 120-VOLT 15 AND 20 AMP BRANCH CIRCUITS IN DWELLING UNITS EXCEPT THOSE IN BATHROOMS, UNFINISHED BASEMENTS, GARAGES AND OUTDOORS SHALL HAVE AFCI PROTECTION. (CEC 210.12)
8.5. THICKNESS OF FOOTING 6" 6" DEPTH BELOW UNDISTURBED GROUND SURFACE 12" 12"
8.6. CONCRETE SLABS SHALL BE 3.5" THICK MINIMUM. (R506.1) 8.7. PROVIDE ADEQUATE SETBACKS FROM SLOPES GREATER THAN 33% GRADIENT EQUAL TO HALF THE HEIGHT OF THE SLOPE (NEED NOT EXCEED 15 FEET) FOR AN ADJACENT ASCENDING SLOPE SURFACE, AND ONE THIRD THE HEIGHT OF THE SLOPE (NEED NOT EXCEED 40 FEET) FOR AN ADJACENT DESCENDING SLOPE SURFACE. IF THESE SETBACKS CANNOT BE MET A GEOTECHNICAL REPORT JUSTIFYING SOIL CHARACTERISTICS AND SUITABILITY OF THE PROPOSED BUILDING SITE SHALL BE PROVIDED. (R403.1.7) THICKNESS OF FOOTING 6" 6" DEPTH BELOW UNDISTURBED GROUND SURFACE 12" 12"
8.8. ANCHOR BOLTS SHALL BE MINIMUM 1/2" X 10" PLACED AT 6' O.C. MAXIMUM. EMBED BOLTS 7" MIN. LOCATE END BOLTS NEITHER LESS THAN 3.5" NOR MORE THAN 12" FROM ENDS OF SILL MEMBERS. (R 403.1.6) PROVIDE 3" X 3" X 0.229" PLATE WASHERS ON EACH BOLT. (R602.11.1)
9. FLOORS
9.1. FLOOR JOIST SIZE, SPACING AND GRADE SHALL CONFORM TO TABLE R502.3.1; OR SHALL BE DESIGNED BY A LICENSED PROFESSIONAL. REV DATE REMARKS
NOTES AND SPECIFICATIONS
D. WOOD SIDING, SHEATHING AND WALL FRAMING ON THE EXTERIOR OF THE BUILDING HAVING A CLEARANCE OF LESS THAN 6" FROM THE GROUND OR LESS THAN 2" FROM A HORIZONTAL CONCRETE SURFACE.
E. ALL WOOD IN CONTACT WITH THE GROUND.
F. ALL WOOD EMBEDDED IN CONCRETE THAT IS IN DIRECT CONTACT WITH THE GROUND OR EXPOSED TO WEATHER AND THAT SUPPORTS STRUCTURES INTENDED FOR HUMAN OCCUPANCY.
4.2. EXPOSED GLU-LAMS SHALL BE PRESERVATIVE TREATED, APPLIED BY THE MANUFACTURER, OR MADE FROM NATURALLY DURABLE WOOD.
4.3. WEATHERPROOFING OF EXTERIOR SURFACES ABOVE AND BELOW GRADE IS REQUIRED. (R406 & R703)
4.4. CONCRETE SLABS SHALL BE SEPARATED FROM EARTH BY A MINIMUM 6-MIL VAPOR RETARDER, WITH EDGES LAPPED A MINIMUM OF 6". THIS MAY BE OMITTED IF THE SPACE ABOVE IS NOT HEATED AND IS NOT LIKELY TO BECOME HEATED IN THE FUTURE. (R506.2.3)
4.5. A CAPILLARY BREAK SHALL BE INSTALLED WHEN CONCRETE SLAB-ON-GROUND FLOORS ARE REQUIRED TO HAVE A VAPOR RETARDER. THIS CAPILLARY BREAK SHALL BE A 4" THICK BASE OF 1/2" OR
LARGER CLEAN AGGREGATE WITH A VAPOR RETARDER IN DIRECT CONTACT WITH CONCRETE. THE CONCRETE MIX DESIGN SHALL ADDRESS BLEEDING, SHRINKAGE, AND CURLING, IN ACCORDANCE WITH ACI 302.2R-06. AS AN ALTERNATIVE THE SLAB DESIGN MAY BE PREPARED BY A LICENSED DESIGN PROFESSIONAL. (CALGREEN 4.505.2.1)
4.6. THE GROUND ADJACENT TO THE FOUNDATION SHALL BE SLOPED SO THAT THE GRADE SHALL FALL A MINIMUM OF 6" WITHIN THE FIRST 10'. IMPERVIOUS SURFACES MAY BE SLOPED AT 2% MINIMUM. (R401.3)
4.7. ALL FASTENERS USED FOR ATTACHMENT OF SIDING SHALL BE CORROSION-RESISTANT. (R703.3.2) 4.8. CORROSION RESISTANT FLASHING SHALL BE PROVIDED AT OPENINGS AND INTERSECTIONS/ATTACHMENTS. (R703.4) 4.9. ALL ROOF AREAS OF BUILDINGS SHALL BE PROVIDED WITH GUTTERS OR ROOF DRAINS. PROVIDE ADEQUATE ROOF SLOPE FOR DRAINAGE (1/4" PER FOOT, MIN.) OR SUBMIT DEFLECTION AND PONDING CALCULATIONS. PRIMARY ROOF DRAINS SHALL BE DESIGNED BASED ON A 60 MINUTE STORM WITH A 100 YEAR RETURN PERIOD, PER TABLE D OF THE CPC. SECONDARY ROOF DRAINS SHALL BE PROVIDED NOT LESS THAN 2" ABOVE THE ROOF SURFACE. (CPC 1101.12) 6.13. RECEPTACLES ON 120-VOLT 15 AND 20 AMP CIRCUITS SHALL BE TAMPER RESISTANT. EXCEPT WHEN
LOCATED MORE THAN 5.5' ABOVE THE FLOOR OR WHEN PART OF A LUMINAIRE OR APPLIANCE. (CEC 406.12)
7. MISCELLANEOUS LIFE-SAFETY
7.1. PROVIDE PRESSURE RELIEF VALVE WITH DRAIN TO OUTSIDE FOR WATER HEATER. (CPC 608.3) PROVIDE SEISMIC STRAPPING OR ANCHORAGE RESISTING OVERTURNING OF WATER HEATER. (CPC 507.2, CRC R301.2.2.3.7)
7.2. LIQUEFIED PETROLEUM GAS (LPG) APPLIANCES SHALL NOT BE INSTALLED IN A PIT, BASEMENT OR SIMILAR LOCATION. LPG APPLIANCES SHALL NOT BE INSTALLED IN AN ABOVE GRADE UNDERFLOOR SPACE OR BASEMENT UNLESS SUCH LOCATION IS PROVIDE WITH AN APPROVED MEANS FOR REMOVAL OF UNBURNED GAS (CMC 303.7.1)
7.3. PROVIDE COMBUSTION AIR FOR ALL GAS FIRED APPLIANCES. (CMC CHAPTER 7)
7.4. FUEL BURNING WATER HEATER IS NOT ALLOWED IN BEDROOM OR BATHROOM UNLESS DIRECT VENT TYPE OR COMPLYING WITH CPC 504.1.
7.5. VENT CLOTHES DRYER TO OUTSIDE OF BUILDING (NOT TO UNDERFLOOR AREA). VENT LENGTH SHALL BE 14' MAXIMUM AND THE VENT DIAMETER SHALL NOT BE LESS THAN 4". (CMC 504.4.2)
7.6. WATER CLOSET SHALL BE LOCATED IN A SPACE NOT LESS THAN 30" IN WIDTH WITH 24" MINIMUM CLEARANCE IN FRONT. (CPC 402.5)
7.7. SHOWERS AND TUBS WITH SHOWERS REQUIRE A NON-ABSORBENT SURFACE UP TO 72" ABOVE THE FLOOR. (R307.2). PROVIDE CURTAIN ROD OR APPROVED ENCLOSURE MATERIAL.
7.8. PROVIDE BACKFLOW PREVENTERS ON ALL HOSE BIBS. (CPC 603.5.7)
7.9. SAFETY GLAZING SHALL BE REQUIRED WITHIN 24" OF A DOOR EDGE OR WITHIN 36" OF A STAIRWAY, LANDING OR RAMP WHEN THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 60" FROM THE FLOOR OR WALKING SURFACE. (R308.4.2 & R308.4.3)
7.10. SAFETY GLAZING IS REQUIRED IN ALL FIXED AND OPERABLE PANELS OF SWINGING, SLIDING AND BIFOLD DOORS. (R308.4.1)
7.11. SAFETY GLAZING IS REQUIRED IN ENCLOSURES AND WALLS FACING HOT TUBS, SAUNAS, STEAM ROOMS, SHOWERS AND TUBS WHERE THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 60" FROM ANY STANDING OR WALKING SURFACE. (R308.4.5)
7.12. WOOD BURNING APPLIANCES SHALL BE EPA PHASE II CERTIFIED IN THE NORTHERN SONOMA COUNTY AIR POLLUTION CONTROL DISTRICT. IN THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT WOOD BURNING APPLIANCES ARE NOT ALLOWED. (SONOMA COUNTY ORDINANCE)
7.13. PROVIDE 18" X 24" FOUNDATION ACCESS WITHIN 5' OF ALL PLUMBING CLEANOUTS. (R408.4; CPC 707.9)
7.14. FIREBLOCKING SHALL BE PROVIDED IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES, AND PARALLEL ROWS OF STUDS OR STAGGERED STUDS; VERTICALLY AT FLOOR AND CEILING LEVELS, HORIZONTALLY AT INTERVALS NOT TO EXCEED 10'. (R302.11)
7.15. SHOW MINIMUM 22" X 30" ACCESS OPENING TO ATTIC. (CMC 304.4; R807.1) IN ATTICS IN WHICH AN APPLIANCE IS INSTALLED, AN OPENING AND PASSAGEWAY AT LEAST AS LARGE AS THE LARGEST COMPONENT OF THE APPLIANCE SHALL BE REQUIRED. (CMC 903.2.3)
7.16. ROOF CONSTRUCTION AND COVERING SHALL COMPLY WITH R905 AND LOCAL ORDINANCE. ALL ROOFING SHALL BE OF CLASS A FIRE RESISTIVE MATERIAL, SUPPORTED BY SOLID SHEATHING (CHAPTER 7 SONOMA COUNTY CODE).
7.17. STORAGE USE OR PLACEMENT OF A FUEL BURNING APPLIANCE IN AN UNDERFLOOR AREA MAY TRIGGER THE REQUIREMENT FOR A 1/2 INCH GYPSUM WALLBOARD OR 5/8 INCH WOOD PANEL MEMBRANE ON THE UNDERSIDE OF THE FLOOR FRAMING MEMBER. SEE SECTION R302.13 OF THE CRC FOR EXCEPTIONS.
8. FOUNDATIONS AND CONCRETE
8.1. CONCRETE SHALL BE 2500 PSI MINIMUM FOR FOUNDATION AND RETAINING WALLS (INCLUDING STEM WALLS), GARAGE FLOOR SLABS, AND PORCHES OR STEPS EXPOSED TO WEATHER AND 2500 PSI MINIMUM FOR ALL OTHER CONCRETE. (R402.2; TABLE R402.2; R608.5.1.5) UNLESS OTHERWISE NOTE ON STRUCTURAL DRAWINGS AND CALCULATIONS.
8.3. HORIZONTAL REINFORCING AT FOOTING AND STEM WALL: ONE NUMBER 4 REBAR WITHIN TOP 12" OF STEM WALL AND ONE NUMBER 4 REBAR 3–4 INCHES FROM BOTTOM OF FOOTING (R403.1.3.1)
8.4. WHEN THE STEM WALL AND FOOTING ARE NOT POURED MONOLITHICALLY A NUMBER 4 REBAR SHALL BE INSTALLED VERTICALLY AT NOT MORE THAN 4' O.C. THE VERTICAL BAR SHALL EXTEND TO 3" CLEAR FROM THE BOTTOM OF THE FOOTING, HAVE A STANDARD HOOK, AND EXTEND A MINIMUM OF 14 INCHES
INTO THE STEM WALL. (R403.1.3.1) STEPPED FOOTINGS SHALL BE USED WHEN SLOPE OF FOOTING BOTTOM IS GREATER THAN 10:1 (H:V). STEP FOOTING DETAIL SHALL BE SHOWN ON BUILDING ELEVATIONS AND FOUNDATION PLAN. (R403.1.5)
9.2. JOISTS UNDER AND PARALLEL TO BEARING PARTITIONS SHALL BE DOUBLED. (R502.4)
9.3. BEARING PARTITIONS PERPENDICULAR TO JOISTS SHALL NOT BE OFFSET FROM SUPPORTING GIRDERS, WALLS OR PARTITIONS MORE THAN THE JOIST DEPTH. (R502.4)
9.4. GIRDERS FOR SINGLE-STORY CONSTRUCTION OR SUPPORTING ONE FLOOR SHALL BE 4" X 6" FOR SPANS 6' OR LESS, WITH GIRDERS SPACED AT 8' O.C. FOR OTHER SIZES AND SPANS SEE TABLE R602.7 (1, 2, & 3).
9.5. NAIL SPACING FOR FLOOR PLYWOOD SHEATHING: 6" O.C. AT EDGES, 12" O.C. IN FIELD (UNLESS CLOSER NAILING IS SPECIFIED). TABLE R602.3(1)
9.6. PROVIDE DETAIL OF CONNECTION OF FLOOR GIRDER AT FOUNDATION WALL.
9.7. SOLID BLOCK ALL JOISTS AT ENDS AND INTERMEDIATE SUPPORTS WITH FULL-DEPTH SOLID BLOCKING NOT LESS THAN 2" NOMINAL THICKNESS. (R502.7)
9.8. AT FLOOR OPENINGS WHERE HEADER JOIST SPAN EXCEEDS 4' SHOW DOUBLE TRIMMER JOISTS AND HEADERS. APPROVED HANGERS SHALL BE USED FOR THE HEADER JOIST TO TRIMMER JOIST CONNECTIONS WHEN THE HEADER JOIST SPAN EXCEEDS 6'. (R502.10)
10. WALLS
10.1. SHOW STUD SIZE, HEIGHT, GRADE AND SPACING. (TABLE R602.3(5)) EXTERIOR AND INTERIOR STUDS SHALL BE CONTINUOUS FLOOR TO ROOF UNLESS BRACED AT CEILING.
10.2. BALLOON FRAME GABLE END WALLS OR PROVIDE SOFTWALL BRACING DETAIL.
10.3. MINIMUM HEADER SIZES SHALL BE ACCORDING TO TABLE R602.7(1,2,&3).
10.4. DOUBLE TOP PLATES SHALL HAVE A MINIMUM LAP OF 24". NAIL WITH EIGHT 16D COMMON NAILS ON EACH SIDE OF THE JOINT, UNLESS ADDITIONAL NAILING IS SPECIFIED FOR INTERSECTIONS WITH BEARING WALLS AND CORNERS SHALL ALSO BE OVERLAPPED. (TABLE R602.3)
10.5. SOLE PLATE TO JOIST OR BLOCKING SHALL BE 16D COMMON NAILS AT 16" O.C. AND 2-16D COMMON NAILS AT 16" AT BRACED WALL PANELS. (TABLE R602.3 ITEM 14) 10.6. FOUNDATION CRIPPLE WALLS SHALL BE FRAMED OF STUDS NOT LESS IN SIZE THAN THE STUDS OF THE WALL ABOVE. CRIPPLE WALLS EXCEEDING 4' IN HEIGHT SHALL BE FRAMED OF STUDS AS REQUIRED FOR AN ADDITIONAL STORY. CRIPPLE WALLS SHALL BE SHEATHED OVER PER R602.10.9.1
10.9 & R602.10.9.1. CRIPPLE WALLS LESS THAN 14" IN HEIGHT SHALL BE CONTINUOUSLY SHEATHED OR CONSTRUCTED OF SOLID BLOCKING. (R602.9)
10.7. MINIMUM WOOD STRUCTURAL PANEL SHEATHING NAILING: 6" O.C. AT EDGES AND 12" O.C. IN FIELD. (TABLE R602.3) NAILING SHALL BE INSPECTED PRIOR TO COVERING.
10.8. PROVIDE ONE LAYER OF NO. 15 ASPHALT FELT OR OTHER APPROVED MATERIAL UNDER EXTERIOR SIDING. MATERIAL SHALL HAVE UPPER LAYER LAPPED 2" MIN OVER LOWER LAYER WITH 6" MIN LAPS AT JOINTS. (R703.2) PROVIDE 2 LAYERS OF GRADE D PAPER, OR EQUIVALENT, BETWEEN WOOD SHEATHING AND STUCCO LATH. (R703.7.3)
10.9. BRACED WALL LINES SHALL BE SIZED AND CONFIGURED IN ACCORDANCE WITH SECTION R602.10 IN ITS ENTIRETY. PROVIDE AND LABEL A LAYOUT OF ALL BRACED WALL LINES COMPLETE WITH REQUIRED VALUES FOR WIND AND SEISMIC FOR THE SPECIFIED WALL TYPE.
10.10. SPACING BETWEEN BRACED WALL LINES SHALL NOT EXCEED 25' (INTERIOR & EXTERIOR) UNLESS LENGTH OF REQUIRED BRACING, PER TABLE R602.10.3(3) IS ADJUSTED IN ACCORDANCE WITH TABLE R602.10.3(4). (R602.10.1.3)
11. ROOF
11.1. SHOW ROOF RAFTERS AND CEILING JOISTS. SPANS SHALL BE PER TABLES R802.4(1) & (2) FOR CEILING JOISTS AND TABLES R802.5.1(1) & (2) FOR RAFTERS. INCLUDE THE SIZE, SPACING AND GRADE OF ALL MEMBERS.
11.2. NAIL RAFTERS TO ADJACENT PARALLEL CEILING JOISTS. WHERE NOT PARALLEL, USE RAFTER TIES AT 4' O.C. MAX. (R802.3.1) CONNECT TIES PER TABLE R602.5.1(9). RAFTER TIES SHALL USE ADJUSTMENT FACTOR IN FOOTNOTE H., FOR THE HEIGHT ABOVE SUPPORTING WALL AND THE LOCATION OF THE CONSTRUCTION MUST BE IN LOWER THIRD OF ATTIC SPACE
11.3. WHERE CEILING JOISTS OR RAFTER TIES ARE NOT PROVIDED TRUSSES SHALL BE USED OR ENGINEERING SHALL BE PROVIDED. (R802.3.1 & R802.10)
11.4. SOLID BLOCK ALL RAFTERS AND TRUSSES AT EXTERIOR WALLS. (R802.8) NAIL BLOCKING TO TOP PLATE WITH (3) 8D TOE NAILS PER BLOCK OR PROVIDE CLIPS.
11.5. FOR ROOFS SHALLOWER THAN 3:12 RIDGES, HIPS AND VALLEYS SHALL REQUIRE ENGINEERING. (R802.2)
11.6. WOOD STRUCTURAL PANEL SHEATHING WHEN DESIGNED TO BE PERMANENTLY EXPOSED IN OUTDOOR APPLICATIONS, SHALL BE OF AN EXTERIOR EXPOSURE DURABILITY. WOOD STRUCTURAL PANEL ROOF SHEATHING EXPOSED TO THE UNDERSIDE MAY BE IDENTIFIED AS EXPOSURE 1. (R803.2) MINIMUM NAILING PER TABLE R602.3(1) IS 6" AT EDGES AND 12" IN THE FIELD, 8D COMMON, BOX OR CASING. NAIL PANELS TO BLOCKING BETWEEN RAFTERS.
12. GREEN BUILDING AND ENERGY
12.1. NEW CONSTRUCTION AND ADDITIONS/ALTERATIONS INCREASING A BUILDING'S CONDITIONED FLOOR AREA SHALL COMPLY WITH APPLICABLE PROVISIONS OF CALGREEN. (CALGREEN 301.1) MANDATORY PROVISIONS SHALL APPLY ONLY TO THE SPECIFIC AREA OF THE ADDITION OR ALTERATION. (CALGREEN 301.1.1)
12.2. THE RESIDENTIAL CALIFORNIA GREEN BUILDING CHECKLIST SHALL BE FILLED OUT AND ALL MANDATORY AND ELECTIVE FEATURES SELECTED SHALL BE IDENTIFIED WITH ADEQUATE NOTATIONS AND DETAILS ON THE PROPOSED PROJECT PLANS. AN APPROVED 3RD PARTY CALGREEN SPECIAL INSPECTOR
SHALL REVIEW THE PROPOSED CHECKLIST AND PROJECT PLANS AND PROVIDE VERIFICATION THAT ALL APPLICABLE MANDATORY AND ELECTIVE ELEMENTS IDENTIFIED IN THE CHECKLIST HAVE BEEN ADEQUATELY INCORPORATED INTO THE PROPOSED PROJECT PLANS AND DETAILS. THE FIELD VERIFICATION OF THE REQUIRED CALGREEN ELEMENTS SHALL ALSO BE ACHIEVED BY THE 3RD PARTY CALGREEN SPECIAL INSPECTOR DURING THE CONSTRUCTION AND INSPECTION PROCESS.
12.3. RESIDENTIAL BUILDINGS UNDERGOING PERMITTED ALTERATIONS, ADDITIONS OR IMPROVEMENTS SHALL REPLACE NONCOMPLIANT PLUMBING FIXTURES WITH WATER-CONSERVING PLUMBING FIXTURES. (CALGREEN 301.1.1)
12.4. ENERGY CODE DOCUMENTATION SHALL BE PROVIDED FOR ANY ADDITIONS AND ALTERATIONS TO THE CONDITIONED ENVELOPE, SPACE-CONDITIONING SYSTEMS, OR LIGHTING SYSTEMS. ENERGY CODE DOCUMENTATION SHALL BE REGISTERED WITH THE CALIFORNIA ENERGY COMMISSION PRIOR TO PERMIT
ISSUANCE. (CALIFORNIA ENERGY CODE SECTION 100(B))
13. FIRE RESISTANT CONSTRUCTION
13.1. NEW STRUCTURES AND REMODELS AND ADDITIONS TO EXISTING STRUCTURES SHALL MEET THE REQUIREMENTS OF THE PRMD PLANNING DIVISION, BASED ON PARCEL SPECIFIC ZONING, USE, AND SETBACK REQUIREMENTS.
13.2. EXTERIOR WALLS WITHIN 5' (OR 3' WH

RESIDENTIAL MEASURES SUMMARY — RMS-1

Project Name	Building Type	Date
1285 W Edmundson	☑ Single Family ☐ Addition Alone ☐ Multi Family ☐ Existing+ Addition/Alteration	6/18/2024

Project Address	California Energy Climate Zone	Total Cond. Floor Area	Addition	# of Units
1285 W Edmundson Morgan Hill	CA Climate Zone 04	3,950	n/a	1

INSULATION

Construction	Type	Cavity	Area (ft²)	Special Features	Status
Wall	Wood Framed	R 21	4,312		New
Door	Opaque Door	R-5	106		New
Floor	Wood Framed w/Crawl Space	R 19	3,950		New
Roof	Wood Framed Attic	R 38	3,734	Add=R-21.0	New
Demising	Wood Framed Rafter	- no insulation	1,166		New
Demising	Wood Framed w/o Crawl Space	- no insulation	1,166		New

FENESTRATION

Total Area: 1,325 | Glazing Percentage: 25.9% | Now/Altered Average U-Factor: 0.33

Orientation	Area(ft²)	U-Fac	SHGC	Overhang	Sidefins	Exterior Shades	Status
Right (NW)	102.5	0.300	0.23	none	none	N/A	New
Right (NW)	77.3	0.300	0.23	none	none	N/A	New
Front (NE)	343.3	0.300	0.23	none	none	N/A	New
Front (NE)	77.3	0.300	0.23	none	none	N/A	New
Left (SE)	40.0	0.300	0.23	none	none	N/A	New
Rear (SW)	191.4	0.300	0.23	none	none	N/A	New
Rear (SW)	27.0	0.300	0.23	none	none	N/A	New
Skylight	216.0	0.470	0.25	none	none	N/A	New
Right (NW)	160.0	0.300	0.23	7.0	none	N/A	New
Right (NW)	90.0	0.300	0.23	7.0	none	N/A	New

HVAC SYSTEMS

Qty.	Heating	Min. Eff	Cooling	Min. Eff	Thermostat	Status
2	Electric Heat Pump	9.50 HSPF2	Split Heat Pump	15.0 SEER2	Setback	New

HVAC DISTRIBUTION

Location	Heating	Cooling	Duct Location	Duct R-Value	Status
New HVAC	Ducted	Ducted	Attic	6.0	New

WATER HEATING

Qty.	Type	Gallons	Min. Eff	Distribution	Status
1	Heat Pump	80	3.20	Standard	New

5/6/22

2022 Single-Family Residential Mandatory Requirements Summary

NOTE: Single-family residential buildings subject to the Energy Codes must comply with all applicable mandatory measures, regardless of the compliance approach used. Review the respective section for more information. (04/2022)

Building Envelope:

§ 110.6(a)1:	**Air Leakage.** Manufactured fenestration, exterior doors, and exterior pet doors must limit air leakage to 0.3 CFM per square foot or less when tested per NFRC-400, ASTM E283, or AAMA/WDMA/CSA 101/I.S.2/A440-2011. *
§ 110.6(a)5:	**Labeling.** Fenestration products and exterior doors must have a label meeting the requirements of § 10-111(a).
§ 110.6(b):	**Field fabricated exterior doors and fenestration** products must use U-factors and solar heat gain coefficient (SHGC) values from Tables 110.6-A, 110.6-B, or JA4.5 for exterior doors. They must be caulked and/or weather-stripped. *
§ 110.7:	**Air Leakage.** All joints, penetrations, and other openings in the building envelope that are potential sources of air leakage must be caulked, gasketed, or weather stripped.
§ 110.8(a):	**Insulation Certification by Manufacturers.** Insulation must be certified by the Department of Consumer Affairs, Bureau of Household Goods and Services (BHGS).
§ 110.8(g):	**Insulation Requirements for Heated Slab Floors.** Heated slab floors must be insulated per the requirements of § 110.8(g).
§ 110.8(i):	**Roofing Products Solar Reflectance and Thermal Emittance.** The thermal emittance and aged solar reflectance values of the roofing material must meet the requirements of § 110.8(i) and be labeled per §10-113 when the installation of a cool roof is specified on the CF1R.
§ 110.8(j):	**Radiant Barrier.** When required, radiant barriers must have an emittance of 0.05 or less and be certified to the Department of Consumer Affairs.
§ 110.0(a):	**Roof Deck, Ceiling and Rafter Roof Insulation.** Roof decks in newly constructed attics in climate zones 4 and 8-16 area-weighted average U-factor not exceeding U-0.184. Ceiling and rafter roofs minimum R-22 insulation in wood-frame ceiling; or area-weighted average U-factor must not exceed 0.043. Rafter roof alterations minimum R-19 or area-weighted average U-factor of 0.054 or less. Attic access doors must have permanently attached insulation using adhesive or mechanical fasteners. The attic access must be gasketed to prevent air leakage. Insulation must be installed in direct contact with a roof or ceiling which is sealed to limit infiltration and exfiltration, as specified in § 110.7, including but not limited to placing insulation either above or below the roof deck or on top of a drywall ceiling. *
§ 150.0(b):	**Loose-fill Insulation.** Loose fill insulation must meet the manufacturer's required density for the labeled R-value.
§ 150.0(c):	**Wall Insulation.** Minimum R-13 insulation in 2x4 inch wood framing wall or have a U-factor of 0.102 or less, or R-20 in 2x6 inch wood framing or have a U-factor of 0.071 or less. Opaque non-framed assemblies must have an overall assembly U-factor not exceeding 0.102. Masonry walls must meet Tables 150.1-A or B. *
§ 150.0(d):	**Raised-floor Insulation.** Minimum R-19 insulation in raised wood framed floor or 0.037 maximum U-factor. *
§ 150.0(f):	**Slab Edge Insulation.** Slab edge insulation must meet all of the following: have a water absorption rate, for the insulation material alone without facings, no greater than 0.3 percent; have a water vapor permeance no greater than 2.0 perm per inch; be protected from physical damage and UV light deterioration; and, when installed as part of a heated slab floor, meet the requirements of § 110.8(g).
§ 150.0(g)1:	**Vapor Retarder.** In climate zones 1 through 16, the earth floor of unvented crawl space must be covered with a Class I or Class II vapor retarder. This requirement also applies to controlled ventilation crawl space for buildings complying with the exception to §150.0(d).
§ 150.0(g)2:	**Vapor Retarder.** In climate zones 14 and 16, a Class I or Class II vapor retarder must be installed on the conditioned space side of all insulation in all exterior walls, vented attics, and unvented attics with air-permeable insulation.
§ 150.0(q):	**Fenestration Products.** Fenestration, including skylights, separating conditioned space from unconditioned space or outdoors must have a maximum U-factor of 0.45; or area-weighted average U-factor of all fenestration must not exceed 0.45.

Fireplaces, Decorative Gas Appliances, and Gas Log:

§ 110.5(e)	**Pilot Light.** Continuously burning pilot lights are not allowed for indoor and outdoor fireplaces.
§ 150.0(e)1:	**Closable Doors.** Masonry or factory-built fireplaces must have a closable metal or glass door covering the entire opening of the firebox.
§ 150.0(e)2:	**Combustion Intake.** Masonry or factory-built fireplaces must have a combustion outside air intake, which is at least six square inches in area and is equipped with a readily accessible, operable, and tight-fitting damper or combustion-air control device.
§ 150.0(e)3:	**Flue Damper.** Masonry or factory-built fireplaces must have a flue damper with a readily accessible control. *

Space Conditioning, Water Heating, and Plumbing System:

§ 110.0-§ 110.3:	**Certification.** Heating, ventilation, and air conditioning (HVAC) equipment, water heaters, showerheads, faucets, and all other regulated appliances must be certified by the manufacturer to the California Energy Commission.
§ 110.2(a):	**HVAC Efficiency.** Equipment must meet the applicable efficiency requirements in Table 110.2-A through Table 110.2-K. *
§ 110.2(b):	**Controls for Heat Pumps with Supplementary Electric Resistance Heaters.** Heat pumps with supplementary electric resistance heaters must have controls that prevent supplementary heater operation when the heating load can be met by the heat pump alone; and in which the cut-on temperature for compression heating is higher than the cut-on temperature for supplementary heating, and the cut-off temperature for compression heating is higher than the cut-off temperature for supplementary heating. *
§ 110.2(c):	**Thermostats.** All heating or cooling systems not controlled by a central energy management control system (EMCS) must have a setback thermostat. *
§ 110.3(c)3:	**Insulation.** Unlined service water heater storage tanks and solar water-heating backup tanks must have adequate insulation, or tank surface heat loss rating.
§ 110.3(c)6:	**Isolation Valves.** Instantaneous water heaters with an input rating greater than 6.8 kBtu per hour (2 kW) must have isolation valves with hose bibbs or other fittings on both cold and hot water lines to allow for flushing the water heater when the valves are closed.

5/6/22

2022 Single-Family Residential Mandatory Requirements Summary

§ 110.5:	**Pilot Lights.** Continuously burning pilot lights are prohibited for natural gas: fan-type central furnaces; household cooking appliances (except appliances without an electrical supply voltage connection with pilot lights that consume less than 150 Btu per hour); and pool and spa heaters. *
§ 150.0(h)1:	**Building Cooling and Heating Loads.** Heating and/or cooling loads are calculated in accordance with the ASHRAE Handbook, Equipment Volume, Applications Volume, and Fundamentals Volume; the SMACNA Residential Comfort System Installation Standards Manual; or the ACCA Manual J using design conditions specified in § 150.0(h)2.
§ 150.0(h)3A:	**Clearances.** Air conditioner and heat pump outdoor condensing units must have a clearance of at least five feet from the outlet of any dryer.
§ 150.0(h)3B:	**Liquid Line Drier.** Air conditioners and heat pump systems must be equipped with liquid line filter driers if required, as specified by the manufacturer's instructions.
§ 150.0(j)1:	**Water Piping, Solar Water-heating System Piping, and Space Conditioning System Line Insulation.** All domestic hot water piping must be insulated as specified in § 609.11 of the California Plumbing Code. *
§ 150.0(j)2:	**Insulation Protection.** Piping insulation must be protected from damage, including that due to sunlight, moisture, equipment' maintenance, and wind as required by §120.3(b). Insulation exposed to weather must be water retardant and protected from UV light (no adhesive tapes). Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space must include, or be protected by, a Class I or Class II vapor retarder. Pipe insulation buried below grade must be installed in a waterproof and non-crushable casing or sleeve.
§ 150.0(n)1:	**Gas or Propane Water Heating Systems.** Systems using gas or propane water heaters to serve individual dwelling units must designate a space at least 2.5' x 2.5' x 7' suitable for the future installation of a heat pump water heater, and meet electrical and plumbing requirements, based on the distance between this designated space and the water heater location; and a condensate drain no more than 2" higher than the base of the water heater.
§ 150.0(n)3:	**Solar Water-heating Systems.** Solar water-heating systems and collectors must be certified and rated by the Solar Rating and Certification Corporation (SRCC), the International Association of Plumbing and Mechanical Officials, Research and Testing (IAPMO R&T), or by a listing agency that is approved by the executive director.

Ducts and Fans:

§ 110.8(d)3:	**Ducts.** Insulation installed on an existing space-conditioning duct must comply with § 604.0 of the California Mechanical Code (CMC). If a contractor installs the insulation, the contractor must certify to the customer, in writing, that the insulation meets this requirement.
§ 150.0(m)1:	**CMC Compliance.** All air-distribution system ducts and plenums must meet CMC §§ 601.0-605.0 and ANSI/SMACNA-006-2006 HVAC Duct Construction Standards Metal and Flexible 3rd Edition. Portions of supply-air and return-air ducts and plenums must be installed to R-6.0 or higher; ducts located entirely in conditioned space as confirmed through field verification and diagnostic testing (RA3.1.4.3.8) do not require insulation. Connections of metal ducts and inner core of flexible ducts must be mechanically fastened. Openings must be sealed with mastic, tape, or other duct-closure system that meets the applicable UL requirements, or aerosol sealant that meets UL 723. The combination of mastic and either mesh or tape must be used to seal openings greater than ¼", if mastic or tape is used. Building cavities, air handler support platforms, and plenums designed or constructed with materials other than sealed sheet metal, duct board or flexible duct must not be used to convey conditioned air. Building cavities and support platforms may contain ducts; ducts installed in these spaces must be compressed. *
§ 150.0(m)2:	**Factory-Fabricated Duct Systems.** Factory-fabricated duct systems must comply with applicable requirements for duct construction, connections, and closures; joints and seams of duct systems and their components must not be sealed with cloth back rubber adhesive duct tapes unless such tape is used in combination with mastic and draw bands.
§ 150.0(m)3:	**Field-Fabricated Duct Systems.** Field-fabricated duct systems must comply with applicable requirements for: pressure-sensitive tapes, mastics, sealants, and other requirements specified for duct construction.
§ 150.0(m)7:	**Backdraft Damper.** Fan systems that exchange air between the conditioned space and outdoors must have backdraft or automatic dampers.
§ 150.0(m)8:	**Gravity Ventilation Dampers.** Gravity ventilating systems serving conditioned space must have either automatic or readily accessible, manually operated dampers in all openings to the outside, except combustion inlet and outlet air openings and elevator shaft vents.
§ 150.0(m)9:	**Protection of Insulation.** Insulation must be protected from damage due tosunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather must be suitable for outdoor service (e.g., protected by aluminum, sheet metal, painted canvas, or plastic cover). Cellular foam insulation must be protected as above or painted with a water retardant and solar radiation-resistant coating.
§ 150.0(m)10:	**Porous Inner Core Flex Duct.** Porous inner cores of flex ducts must have a non-porous layer or air barrier between the inner core and outer vapor barrier.
§ 150.0(m)11:	**Duct System Sealing and Leakage Test.** When space conditioning systems use forced air duct systems to supply conditioned air to an occupiable space, the ducts must be sealed and duct leakage tested, as confirmed through field verification and diagnostic testing, in accordance with Reference Residential Appendix RA3.1.
§ 150.0(m)12:	**Air Filtration.** Space conditioning systems with ducts exceeding 10 feet and the supply side of ventilation systems must have MERV 13 or equivalent filters. Filters for space conditioning systems must have a two inch depth or can be one inch if sized per Equation 150.0-A. Clean-filter pressure drop and labeling must meet the requirements in §150.0(m)12. Filters must be accessible for regular service. Filter racks or grilles must use gaskets, sealing, or other means to close gaps around the inserted filters to and prevents air from bypassing the filter. *

5/6/22

2022 Single-Family Residential Mandatory Requirements Summary

§ 150.0(m)13:	**Space Conditioning System Airflow Rate and Fan Efficacy.** Space conditioning systems that use ducts to supply cooling must have a hole for the placement of a static pressure probe, or a permanently installed static pressure probe in the supply plenum. Airflow must be ≥ 350 CFM per ton of nominal cooling capacity, and an air-handling unit fan efficacy ≤ 0.45 watts per CFM for gas furnace air handlers and ≤ 0.58 watts per CFM for all others. Small duct high velocity systems must provide an airflow ≥ 250 CFM per ton of nominal cooling capacity, and an air-handling unit fan efficacy ≤ 0.62 watts per CFM. Field verification testing is required in accordance with Reference Residential Appendix RA3.3. *

Ventilation and Indoor Air Quality:

§ 150.0(o)1:	**Requirements for Ventilation and Indoor Air Quality.** All dwelling units must meet the requirements of ASHRAE Standard 62.2, Ventilation and Acceptable Indoor Air Quality in Residential Buildings subject to the amendments specified in § 150.0(o)1. *
§ 150.0(o)1B:	**Central Fan Integrated (CFI) Ventilation Systems.** Continuous operation of CFI air handlers is not allowed to provide the whole-dwelling unit ventilation airflow required per §150.0(o)1C. A motorized damper(s) must be installed on the ventilation duct(s) that prevents all airflow through the space conditioning duct system when the damper(s) is closed andcontrolled per §150.0(o)1BiiiAiv. CFI ventilation systems must have controls that track outdoor air ventilation run time, and either open or close the motorized damper(s) for compliance with §150.0(o)1C.
§ 150.0(o)1C:	**Whole-Dwelling Unit Mechanical Ventilation for Single-Family Detached and townhouses .** Single-family detached dwelling units, and attached dwelling units not sharing ceilings or floors with other dwelling units, occupiable spaces, public garages, or commercial spaces must have mechanical ventilation airflow specified in § 150.0(o)1Ci-iii.
§ 150.0(o)1G:	**Local Mechanical Exhaust.** Kitchens and bathrooms must have local mechanical exhaust; nonenclosed kitchens must have demand-controlled exhaust system meeting requirements of §150.0(o)1Giii.enclosed kitchens and bathrooms can use demand-controlled or continuous exhaust meeting §150.0(o)1GiiiA-iv. Airflow must be measured by the installer per §150.0(o)1Gv, and rated for sound per §150.0(o)1Gvi. *
§ 150.0(o)1H&I:	**Airflow Measurement and Sound Ratings of Whole-Dwelling Unit Ventilation Systems.** The airflow required per § 150.0(o)1C must be measured by using a flow hood, flow grid, or other airflow measuring device at the fan's inlet or outlet terminals/grilles per Reference Residential Appendix RA3.7. Whole-Dwelling unit ventilation systems must be rated for sound per ASHRAE 62.2 §7.2 at no less than the minimum airflow rate required by §150.0(o)1C.
§ 150.0(o)2:	**Field Verification and Diagnostic Testing.** Whole-Dwelling Unit ventilation airflow, vented range hood airflow and sound rating, and HRV and ERV fan efficacy must be verified in accordance with Reference Residential Appendix RA3.7. Vented range hoods must be verified per Reference Residential Appendix RA3.7.4.3 to confirm if it is rated by HVI or AHAM to comply with the airflow rates and sound requirements per §150.0(o)1G

Pool and Spa Systems and Equipment:

§ 110.4(a):	**Certification by Manufacturers.** Any pool or spa heating system or equipment must be certified to have all of the following: compliance with the Appliance Efficiency Regulations and listing in MAEDBS; an on-off switch mounted outside of the heater that allows shutting off the heater without adjusting the thermostat setting; a permanent weatherproof plate or card with operating instructions; and must not use electric resistance heating. *
§ 110.4(b)1:	**Piping.** Any pool or spa heating system or equipment must be installed with at least 36 inches of pipe between the filter and the heater, or dedicated suction and return lines, or built-in or built-up connections to allow for future solar heating.
§ 110.4(b)2:	**Covers.** Outdoor pools or spas that have a heat pump or gas heater must have a cover.
§ 110.4(b)3:	**Directional Inlets and Time Switches for Pools.** Pools must have directional inlets that adequately mix the pool water, and a time switch that will allow all pumps to be set or programmed to run only during off-peak electric demand periods.
§ 110.5:	**Pilot Light.** Natural gas pool and spa heaters must not have a continuously burning pilot light.
§ 150.0(p):	**Pool Systems and Equipment Installation.** Residential pool systems or equipment must meet the specified requirements for pump sizing, flow rate, piping, filters, and valves.

Lighting:

§ 110.9:	**Lighting Controls and Components.** All lighting control devices and systems, ballasts, and luminaires must meet the applicable requirements of § 110.9. *
§ 150.0(k)1A:	**Luminaire Efficacy.** All installed luminaires must meet the requirements in Table 150.0-A, except lighting integral to exhaust fans, kitchen range hoods, bath vanity mirrors, and garage door openers; navigation lighting less than 5 watts; and lighting internal to drawers, cabinets, and linen closets with an efficacy of at least 45 lumens per watt.
§ 150.0(k)1B:	**Screw based luminaires.** Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA8. *
§ 150.0(k)1C:	**Recessed Downlight Luminaires in Ceilings.** Luminaires recessed into ceilings must not contain screw based sockets, must be airtight, and must be sealed with a gasket or caulk. California Electrical Code § 410.116 must also be met.
§ 150.0(k)1D:	**Light Sources in Enclosed or Recessed Luminaires.** Lamps and other separable light sources that are not compliant with the JA8 elevated temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires.
§ 150.0(k)1E:	**Blank Electrical Boxes.** The number of electrical boxes that are more than five feet above the finished floor and do not contain a luminaire or other device shall be no more than the number of bedrooms. These boxes must be served by a dimmer, vacancy sensor control, low voltage wiring, or fan speed control.
§ 150.0(k)1F:	**Lighting Integral to Exhaust Fans.** Lighting integral to exhaust fans (except when installed by the manufacturer in kitchen exhaust hoods) must meet the applicable requirements of § 150.0(k).

5/6/22

2022 Single-Family Residential Mandatory Requirements Summary

§ 150.0(s)	**Energy Storage System (ESS) Ready.** All single-family residences must meet all of the following: Either ESS-ready interconnection equipment with backed up capacity of 60 amps or more and four or more ESS supplied branch circuits, or a dedicated raceway from the main service to a subpanel that supplies the branch circuits in § 150.0(s); at least four branch circuits must be identified and have their source collocated at a single panelboard suitable to be supplied by the ESS, with one circuit supplying the refrigerator, one lighting circuit near the primary exit, and one circuit supplying a sleeping room receptacle outlet; main panelboard must have a minimum busbar rating of 225 amps; sufficient space must be reserved to allow future installation of a system isolation equipment/transfer switch within 3' of the main panelboard, with raceways installed between the panelboard and the switch location to allow the connection of backup power source.
§ 150.0(t)	**Heat Pump Space Heater Ready.** Systems using gas or propane furnaces to serve individual dwelling units must include: A dedicated unobstructed 240V branch circuit wiring installed within 3' of the furnace with circuit conductors rated at least 30 amps with the blank cover identified as '240V ready;" and a reserved main electrical service panel space to allow for the installation of a double pole circuit breaker permanently marked as "For Future 240V use."
§ 150.0(u)	**Electric Cooktop Ready.** Systems using gas or propane cooktop to serve individual dwelling units must include: A dedicated unobstructed 240V branch circuit wiring installed within 3' of the cooktop with circuit conductors rated at least 50 amps with the blank cover identified as "240V ready;" and a reserved main electrical service panel space to allow for the installation of a double pole circuit breaker permanently marked as "For Future 240V use."
§ 150.0(v)	**Electric Clothes Dryer Ready.** Clothes dryer locations with gas or propane plumbing to serve individual dwelling units must include: A dedicated unobstructed 240V branch circuit wiring installed within 3' of the dryer location with circuit conductors rated at least 30 amps with the blank cover identified as "240V ready;" and a reserved main electrical service panel space to allow for the installation of a double pole circuit breaker permanently marked as "For Future 240V use."

*Exceptions may apply.

5/6/22

HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY

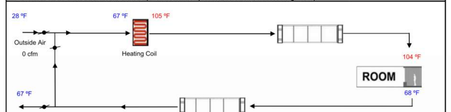
Project Name	Date
1285 W Edmundson	6/18/2024
System Name	Floor Area
New HVAC	3,950

ENGINEERING CHECKS	
Number of Systems	2
Heating System	
Output per System	60,000
Total Output (Btuh)	120,000
Output (Btuh/sqft)	23.5
Cooling System	
Output per System	60,000
Total Output (Btuh)	120,000
Total Output (Tons)	10.0
Total Output (sqft/Ton)	511.6
Air System	
CFM per System	0
Airflow (cfm)	0
Airflow (cfm/sqft)	0.00
Airflow (cfm/Ton)	0.0
Outside Air (%)	0.0%
Outside Air (cfm/sqft)	0.00
Note: values above given at ARI conditions	

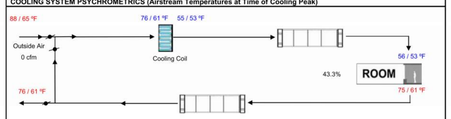
SYSTEM LOAD	COIL COOLING PEAK CFM	COIL COOLING PEAK Sensible	COIL COOLING PEAK Latent	COIL HTG. PEAK CFM	COIL HTG. PEAK Sensible
Total Room Loads	2,551	52,403	1,446	1,346	51,933
Return Vented Lighting		0			0
Return Air Ducts		2,377			2,884
Return Fan		0			0
Ventilation	0	0	0	0	0
Supply Fan		0			0
Supply Air Ducts		2,377			2,884
TOTAL SYSTEM LOAD		57,157	1,446		57,701

HVAC EQUIPMENT SELECTION			
Heat Pump HVAC	112,649	0	79,082
Total Adjusted System Output (Adjusted for Peak Design conditions)	112,649	0	79,082
TIME OF SYSTEM PEAK	Aug 3 PM		Jan 1 AM

HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak)



COOLING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Cooling Peak)



2022 Single-Family Residential Mandatory Requirements Summary

§ 150.0(k)1G:	**Screw based luminaires.** Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA8. *
§ 150.0(k)1H:	**Light Sources in Enclosed or Recessed Luminaires.** Lamps and other separable light sources that are not compliant with the JA8 elevated temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires.
§ 150.0(k)1I:	**Light Sources in Drawers, Cabinets, and Linen Closets.** Light sources internal to drawers, cabinetry or linen closets are not required to comply with Table 150.0-A or be controlled by vacancy sensors provided that they are rated to consume no more than 5 watts of power, emit no more than 150 lumens, and are equipped with controls that automatically turn the lighting off when the drawer, cabinet or linen closet is closed.
§ 150.0(k)2A:	**Interior Switches and Controls.** All forward phase cut dimmers used with LED light sources must comply with NEMA SSL 7A.
§ 150.0(k)2B:	**Interior Switches and Controls.** Exhaust fans must be controlled separately from lighting systems. *
§ 150.0(k)2A:	**Accessible Controls.** Lighting must have readily accessible wall-mounted controls that allow the lighting to be manually turned on and off. *
§ 150.0(k)2B:	**Multiple Controls.** Controls must not bypass a dimmer, occupant sensor, or vacancy sensor function if the dimmer or sensor is installed to comply with § 150.0(k).
§ 150.0(k)2C:	**Mandatory Requirements.** Lighting controls must comply with the applicable requirements of § 110.9.
§ 150.0(k)2D:	**Energy Management Control Systems.** An energy management control system (EMCS) may be used to comply with dimming, occupancy, and control requirements if it provides the functionality of the specified control per § 110.9 and the physical controls specified in § 150.0(k)2A.
§ 150.0(k)2E:	**Automatic Shutoff Controls.** In bathrooms, garages, laundry rooms, utility rooms and walk-in closets, at least one installed luminaire must be controlled by an occupancy or vacancy sensor providing automatic-off functionality. Lighting inside drawers and cabinets with opaque fronts or doors must have controls that turn the light off when the drawer or door is closed.
§ 150.0(k)2F:	**Dimmers.** Lighting in habitable spaces (e.g., living rooms, dining rooms, kitchens, and bedrooms) must have readily accessible wall-mounted dimming controls that allow the lighting to be manually adjusted up and down. Forward phase cut dimmers controlling LED light sources in these spaces must comply with NEMA SSL 7A.
§ 150.0(k)2K:	**Independent controls.** Integrated lighting of exhaust fans shall be controlled independently from the fans. Lighting under cabinets or shelves, lighting in display cabinets, and switched outlets must be controlled separately from ceiling-installed lighting.
§ 150.0(k)3A:	**Residential Outdoor Lighting.** For single-family residential buildings, outdoor lighting permanently mounted to a residential building, or to other buildings on the same lot, must have a manual on/off switch and either a photocell and motion sensor or automatic time switch control) or an astronomical time clock. An energy management control system that provides the specified control functionality and meets all applicable requirements may be used to meet these requirements.
§ 150.0(k)4:	**Internally illuminated address signs.** Internally illuminated address signs must either comply with § 140.8 or consume no more than 5 watts of power.
§ 150.0(k)5:	**Residential Garages for Eight or More Vehicles.** Lighting for residential parking garages for eight or more vehicles must comply with the applicable requirements for nonresidential garages in §§ 110.9, 130.0, 130.1, 130.4, 140.6, and 141.0.

Solar Readiness:

§ 110.10(a)1:	**Single-family Residences.** Single-family residences located in subdivisions with 10 or more single-family residences and where the application for a tentative subdivision map for the residences has been deemed complete and approved by the enforcement agency, which do not have a photovoltaic system installed, must comply with the requirements of § 110.10(b)-(e).
§110.10(b)1A:	**Minimum Solar Zone Area.** The solar zone must have a minimum total area as described below. The solar zone must comply with access, pathway, smoke ventilation, and spacing requirements as specified in Title 24, Part 9 or other parts of Title 24 or in any requirements adopted by a local jurisdiction. The solar zone total area must be comprised of areas that have no dimension less than 5 feet and are no less than 80 square feet each for buildings with roof areas less than or equal to 10,000 square feet or no less than 160 square feet each for buildings with roof areas greater than 10,000 square feet. For single-family residences, the solar zone must be located on the roof or overhang of the building and have a total area no less than 250 square feet. *
§ 110.10(b)2:	**Azimuth.** All sections of the solar zone located on steep-sloped roofs must have an azimuth between 90-300° of true north.
§ 110.10(b)3A:	**Shading.** The solar zone must not contain any obstructions, including but not limited to: vents, chimneys, architectural features, and roof mounted equipment.
§ 110.10(b)3B:	**Shading.** Any obstruction located on the roof or any other part of the building that projects above a solar zone must be located at least twice the horizontal distance of the height difference between the highest point of the obstruction and the horizontal projection of the nearest point of the solar zone, measured in the vertical plane.
§ 110.10(b)4:	**Structural Design Loads on Construction Documents.** For areas of the roof designated as a solar zone, the structural design loads for roof dead load and roof live load must be clearly indicated on the construction documents.
§ 110.10(c):	**Interconnection Pathways.** The construction documents must indicate: a location reserved for inverters and metering equipment and a pathway reserved for routing of conduit from the solar zone to the point of interconnection with the electrical service; and for single-family residences and central water-heating systems, a pathway reserved for routing plumbing from the solar zone to the water-heating system.
§ 110.10(d):	**Documentation.** A copy of the construction documents or a comparable document indicating the information from § 110.10(b)-(c) must be provided to the occupant.
§ 110.10(e)1:	**Main Electrical Service Panel.** The main electrical service panel must have a minimum busbar rating of 200 amps.
§ 110.10(e)2:	**Main Electrical Service Panel.** The main electrical service panel must have a reserved space to allow for the installation of a double pole circuit breaker for a future solar electric installation. The reserved space must be permanently marked as "For Future Solar Electric."

Electric and Energy Storage Ready:

5/6/22

ALI JABER ARCHITECT
4212 W.BURBANK BLVD
BURBANK, CA 91505
P: 949.264.3320
WWW.alijabearch.com

LICENSED ARCHITECT ALI JABER C38901 REN 01-31-25 STATE OF CALIFORNIA

SEAL

DATE: 11/05/2024

PROJECT
SHYSHKA RESIDENCE

1285 W. EDMUNDSON
MORGAN HILL, CA 95037

CLIENT
TREVAR & CAMILA SHYSHKA

ISSUED

MARK	DATE	DESCRIPTION

TITLE
RMS

SHEET
A-004

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

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: 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 *CA*lGreen, 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 pervious material used to collect or channel drainage or runoff water.

WATTLES. 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)

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 or 4.106.4.2 to facilitate future installation and use of EV chargers. Electric vehicle supply equipment (EVSE) shall be installed in accordance with the *California Electrical Code,* Article 625.

Exceptions:
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 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.

Exemption: 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, parking spaces 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.

4.106.4.2.1Multifamily 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 amperes.

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 amperes.

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 amperes, and installed EVSE shall have a capacity of not less than 30 amperes. 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 4.303.4.4.

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 20 psi.

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

4.303.1.4.3 Metering Faucets. Metering faucets when installed in residential buildings shall not deliver more than 0.2 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 shall be equipped with an integral automatic shutoff.

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).

TABLE H-2

STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY VALVES MANUFACTURED ON OR AFTER JANUARY 28, 2019

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 prerinse spray values 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.

TABLE - MAXIMUM FIXTURE WATER USE

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.
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 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 an occupant 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 waster, 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 42649.82 (a)(2)(A) et seq. are note 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 wheatboard, strawboard, agrifiber, panel substrates and door cores, not including furniture, fixtures and equipment (FF&E) not considered base building elements.

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

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

DISCLAIMER:*THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.*

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LICENSED ARCHITECT ALI JABER C38901 REN 01-31-25 STATE OF CALIFORNIA

SEAL

DATE: 11/05/2024

PROJECT
SHYSHKA RESIDENCE
1285 W. EDMUNDSON
MORGAN HILL, CA 95037

CLIENT
TREVAR & CAMILA SHYSHKA

ISSUED

MARK	DATE	DESCRIPTION

TITLE
CAL GREEN

SHEET
A-005

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
RESIDENTIAL MANDATORY MEASURES, SHEET 2 (January 2023)

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

Y	N/A	RESPON. PARTY

MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base Reactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundredths of a gram (g O^3/g ROC).
Note: MIR values for individual compounds and hydrocarbon solvents are specified in CCR, Title 17, Sections 94700 and 94701.

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

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

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

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

4.503 FIREPLACES

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

4.504 POLLUTANT CONTROL

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

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

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

1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable or SCAQMD Rule 1168 VOC limits, as shown in Table 4.504.1 or 4.504.2, as applicable. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products, as specified in Subsection 2 below.
2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than 1 pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of *California Code of Regulations*, Title 17, commencing with section 94507.

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

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

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

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

TABLE 4.504.1 - ADHESIVE VOC LIMIT[1,2]

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

ARCHITECTURAL APPLICATIONS	VOC LIMIT
INDOOR CARPET ADHESIVES	50
CARPET PAD ADHESIVES	50
OUTDOOR CARPET ADHESIVES	150
WOOD FLOORING ADHESIVES	100
RUBBER FLOOR ADHESIVES	60
SUBFLOOR ADHESIVES	50
CERAMIC TILE ADHESIVES	65
VCT & ASPHALT TILE ADHESIVES	50
DRYWALL & PANEL ADHESIVES	50
COVE BASE ADHESIVES	50
MULTIPURPOSE CONSTRUCTION ADHESIVE	70
STRUCTURAL GLAZING ADHESIVES	100
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250
OTHER ADHESIVES NOT LISTED	50
SPECIALTY APPLICATIONS	
PVC WELDING	510
CPVC WELDING	490
ABS WELDING	325
PLASTIC CEMENT WELDING	250
ADHESIVE PRIMER FOR PLASTIC	550
CONTACT ADHESIVE	80
SPECIAL PURPOSE CONTACT ADHESIVE	250
STRUCTURAL WOOD MEMBER ADHESIVE	140
TOP & TRIM ADHESIVE	250
SUBSTRATE SPECIFIC APPLICATIONS	
METAL TO METAL	30
PLASTIC FOAMS	50
POROUS MATERIAL (EXCEPT WOOD)	50
WOOD	30
FIBERGLASS	80

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.

2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.

TABLE 4.504.2 - SEALANT VOC LIMIT

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

SEALANTS	VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NON-POROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

TABLE 4.504.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS[2,3]

GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS

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

1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS

2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.

3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

TABLE 4.504.5 - FORMALDEHYDE LIMITS[1]

MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION

PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLE BOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD[2]	0.13

1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIF. AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIF. CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.

2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16" (8 MM).

DIVISION 4.5 ENVIRONMENTAL QUALITY (continued)

4.504.3 CARPET SYSTEMS. All carpet installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01350)

See California Department of Public Health's website for certification programs and testing labs.

https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx.

4.504.3.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01350)

See California Department of Public Health's website for certification programs and testing labs.

https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx.

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

4.504.4 RESILIENT FLOORING SYSTEMS. Where resilient flooring is installed , at least 80% of floor area receiving resilient flooring shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01350)

See California Department of Public Health's website for certification programs and testing labs.

https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx.

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

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

1. Product certifications and specifications.
2. Chain of custody certifications.
3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.).
4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269, European 636 3S standards, and Canadian CSA 0121, CSA 0151, CSA 0153 and CSA 0325 standards.
5. Other methods acceptable to the enforcing agency.

4.505 INTERIOR MOISTURE CONTROL

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

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

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

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

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

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

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

4.506 INDOOR AIR QUALITY AND EXHAUST

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

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

Notes:

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

4.507 ENVIRONMENTAL COMFORT

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

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

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

CHAPTER 7
INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

702 QUALIFICATIONS

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

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

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

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

Notes:

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

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

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

703 VERIFICATIONS

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

DISCLAIMER: *THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.*

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LICENSED ARCHITECT ALI JABER C38901 REN 01-31-25 STATE OF CALIFORNIA

SEAL

DATE: 11/05/2024

PROJECT
SHYSHKA RESIDENCE
1285 W. EDMUNDSON
MORGAN HILL, CA 95037

CLIENT
TREVAR & CAMILA SHYSHKA

ISSUED

MARK	DATE	DESCRIPTION

TITLE
CAL GREEN

SHEET
A-006

AUGUST 2018

insite. Building Design Information

JamesHardie

James Hardie Fire-Resistance Rated Wall Assembly Quick Reference Guide

Technical Brief 11

James Hardie® products installed as indicated in the Fire Resistance Rated Assembly table below, can achieve a 1 or 2 hour fire resistance assembly rating. Each assembly meets the requirements for ASTM-E119[1], CAN/ULC-S101[2], NFPA-251[3], and UL 263[4]. In addition to the system ratings, James Hardie fiber cement siding products are non-combustible when tested in accordance with ASTM E136. The siding products also have a flame-spread index of 0 and a smoke developed index of 0 when tested in accordance with ASTM E84.

FIRE RESISTANCE ASSEMBLY

Assembly Design No.	Product List	Wall Frame	Stud Spacing	Exposure Rating	Type X Gypsum (Interior)	Type X Gypsum (Exterior)	Fire Exposure	Wood Sheathing	Furring
JHFCS 60-01	HardieBacker® Backerboard, HardiePanel® Vertical Siding, HardiePlank® Lap Siding, Reveal® Panel System, Artisan® Lap Siding & Artisan® Siding with Lock Joint System	Steel	24" oc max	1 hour	5/8"	1/2" or 5/8"	Both	Optional	Optional
JHFCS 60-02	HardiePanel Vertical Siding, HardiePlank® Lap Siding, Reveal® Panel System, Artisan® Lap Siding & Artisan Siding with Lock Joint System	Wood	16" oc	1 hour	5/8"	5/8"	Both	Optional	Optional
JHFCS 60-03	HardiePanel Vertical Siding & Reveal Panel System	Wood	24" oc	1 hour	5/8"	5/8"	Both	Optional	Optional
JHFCS 60-04	HardiePlank Lap Siding, Artisan Lap Siding & Artisan Siding with Lock Joint System	Wood	24" oc	1 hour	5/8"	5/8"	Both	Optional	Optional
JHFCS 60-05	HardieBacker Backerboard	Steel	24" oc max	1 hour	1/2"	1/2"	Both	Optional	Optional
JHFCS 60-06	HardieBacker Backerboard with tile finish	Steel	16" oc	1 hour	5/8"	None	Both	Optional	Optional
JHFCS 60-07	HardieBacker Backerboard with tile finish	Wood	16" oc	1 hour	5/8"	None	Both	Optional	Optional
JHFCS 120-01	HardiePanel vertical siding & Reveal Panel System	Steel	16" oc	2 hour	1-1⅛"	1-1⅛"	Both	Optional	Optional
JHFCS 120-02	HardiePanel vertical siding & Reveal Panel System	Wood	16" oc	2 hour	1-1⅛"	1-1⅛"	Both	Optional	Optional

The latest 3D assembly drawings along with additional UL Fire Design Assemblies can be received by using the FireAssembly Tool located at www.jhinsite.com/tools/.

- ASTM-E119 = Standard Methods of Fire Tests of Building Construction and Materials.
- CAN/ULC-S101= Standard Methods of Fire Endurance Tests of Building Construction and Materials.
- UL 263 = Fire Tests of Building Construction and Materials.
- UL 263 = Fire Tests of Building Construction and Materials.

P1

JamesHardie

Additional Installation Information, Warranties, and Safety Information are available at JamesHardie.com

1 866 442 7343 | www.JHinsite.com

IMPORTANT: Failure to follow James Hardie written installation instructions and comply with applicable building codes may violate local laws, affect building envelope performance and may affect warranty coverage. It is the user's responsibility to comply with all heath and safety regulations when cutting and installing this product may result in personal injury.

DESIGN ADVICE: Any information or assistance provided by James Hardie in relation to specific projects must be approved by the relevant specialists engaged for the project (eg. builder, architect or engineer). James Hardie will not be responsible for the use of any such information or assistance.

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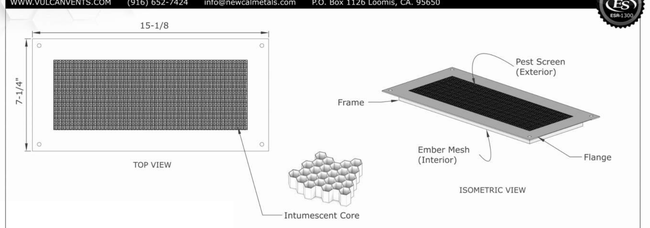
VULCAN VENT® FIRE & EMBER SAFE VENTS

Revision Date: October 11, 2021

Approved for use in the Wildland Urban Interface (W.U.I.)
Chapter 7A compliant: Tested and listed to ASTM E2886. **ICC-ESL** listing: 1300

WWW.VULCANVENTS.COM (916) 652-7424 info@newcalmetals.com P.O. Box 1126 Loomis, CA. 95650

ESR-1300



Proudly Manufactured By: NEW CAL METALS INC. www.newcalmetals.com

VFS614FF PRODUCT SPECIFICATION & DATA SHEET

Model Description	**Foundation/Soffit Vent**	Flange Type	**Flange Front**
Model Number	**VFS614FF**	NFVA	**41 sq. in.**
Model Size	**13-1/2" x 5-1/2"**		

Frame & Flange	**G90 Galvanized Steel - 26GA**
Intumescent Core	**5mm Hexagonal Matrix - Aluminum with intumescent coating**
Ember Mesh	**14 Mesh - 304 Stainless Steel** (Faces interior)
Pest Screen	**Galvanized Steel Screen - 1/8"** (Faces exterior)

Handi Foam

TECHNICAL DATA SHEET

HANDIFOAM® E84 LOW PRESSURE SPRAY FOAM

LOW PRESSURE POLYURETHANE FOAM INFORMATION

Description	Low pressure, medium density, two-component spray polyurethane foam
SPF	Spray Polyurethane Foam
Applications	Designed to fill and seal various size voids, deaden sound or reduce vibration. Conforms to the requirements of ASTM E84 as a Class 1 (A) system.
Preparation for use	Substrate must be clean, dry, firm, free of loose particles, and free of dust, grease and mold release agents. Protect surfaces not to be foamed. Read SDS, Operating Instructions, and Product Stewardship Guidelines. For additional information go to www.icpadhesives.com
Use	Conditioning between 75-85°F (24-29°C). Follow instructions for set-up found in the operating instructions.
PPE	Recommend using in a well-ventilated area with certified respiratory protection or a powered air purifying respirator (PAPR). Wear protective glasses with side shields or goggles, nitrile gloves, and clothing that protects against dermal exposure. Read all instructions and SDS (Section 8) prior to use of any product.
Note	FOR PROFESSIONAL USE ONLY. Always check the local building code before use. Cured low pressure polyurethane foam is non-toxic and inert.
Temperature	Please see chart located on page 2
Product Storage	Store in a dry area. Do not expose the kits or tanks to open flame or temperatures above 90°F (32°C). Excessive heat can cause premature aging of components resulting in a shorter shelf-life.
Disposal	Refer to SDS (Section 13) for instructions. Always dispose of empty cylinders according to applicable federal, state, provincial and local regulations.
Shelf-life	12 months
Compatibility	Cured low pressure polyurethane foam is chemically inert and non-reactive in approved applications, and will not harm electrical wire insulations, extruded polystyrene foams, Romex®, rubber, PVC, polyethylene (i.e. PEX) or other plastics. The product is not resistant to UV rays; if left exposed the product should be coated or painted.

TECHNICAL DATA

	STANDARD	RESULTS
Density Free Rise	ASTM D1622	1.75 lbs/ft³ (28 kg/m³)
Density In-place		2.12 lbs/ft³ (34 kg/m³)
K-factor- Initial	ASTM C518	0.139 BTU·inch/ft²·h·°F
Aged 90 days 140°F (60°C)		0.166 BTU·inch/ft²·h·°F
Aged 90 days 140°F (60°C)		0.083 BTU·inch/ft²·h·°F
R-Value- Initial	ASTM C518	7.2 at 1 inch thickness
Aged 90 days 140°F (60°C)		6.0 at 1 inch thickness
Aged 90 days 140°F (60°C)		12.0 at 2 inch thickness
Air Barrier Properties Tested at 1 inch thickness @1.57 psf (75Pa)	ASTM E283	0.003 cfm/ft² (0.02 L/s/m²)
Air Permeance Tested at 2 Inch Boards	ASTM E2178	0.02 L/s/m²
Compressive Strength	ASTM D1621	26 lbf/in² (182 kPa) Parallel 16 lbf/in² (110 kPa) Perpendicular
Dimensional Stability	ASTM D2126	+/- 5%
Tack-Free/Expansion Time	Tack-Free/Expansion Time	30-60 seconds
Closed-Cell Content	ASTM D2856	95%

TECHNICAL DATA (Continued)

Tensile Strength	ASTM D1623	OSB 20 lbf/in2 (137 kPa) CMU 25 lbf/in2 (172 kPa) Steel 22 lbf/in2 (152 kPa)
Cuttable		2-5 minutes
Fungi Resistance	ASTM G21	No Growth
Perm Rating- Method A		
1" Thick (2.54 cm)	ASTM E96	1.67 (100 ng/(m²·Pa·s)) - Class III Vapor Retarder
2" Thick (5.08 cm)		1.44 (82 ng/(m²·Pa·s)) - Class III Vapor Retarder
3" Thick (7.62 cm)		1.00 (57 ng/(m²·Pa·s)) - Class II Vapor Retarder
Water Absorption	ASTM D2842	2.9%
Fire Rating- Tested at 2" Thickness	ASTM E84	Flame Spread Index 20 Smoke Developed 400
Fire Rating- Tested at 2" Beads	CAN/ULC S102	Flame Spread Index 9 Smoke Developed 43
Fire Rating	FM/VSS 302/ CM/VSS 302	Meets/ Burn Rate ti/60 min

APPROVALS/STANDARDS/CLASSIFICATIONS

ESR- 2717	Conforms to the requirements of AC 377
CCMC #13455-L	Conforms to the requirements of CAN/ULC S711.01
NFPA 286	Testing for use in roof/wall junctions and attic/wall penetrations at 2" thickness x 6" wide with unlimited length without a thermal barrier.
NFPA 286-Modified	Tested with No Burn Plus XD Ignition Barrier. Can be used in attic and crawlspace applications when certain qualifying conditions are met.
ULe GREENGUARD	Gold Certification

GREENGUARD GOLD CERTIFIED FOR LOW CHEMICAL EMISSIONS FOR CHILDREN & SCHOOLS UL GREENGUARD

TEMPERATURE GUIDELINES

Chemical Storage Temperature	Optimum 75-85°F (24-29°C) but not <60°F (16°C) or >90°F (32°C)
Outside Application Temperature	40-100°F (4-38°C)
Process Core Chemical Temperature	75-85°F (24-29°C)
Surface Temperature (Substrate)	40-100°F (4-38°C)
Cured Foam	-200°F to 240°F (-129°C to +116°C)

YIELD[1] (1.75 Density)

	Weight (Including packaging)	Board Feet	Cubic Feet	Linear Feet	Linear Feet
II-105 P10705	26.4 lbs	105 (9.8 m²)	8.75 ft³ (.25 m³)	1603 at 1 inch bead	400 at 2 inch bead
II-205 P10726	41 lbs	205 (19 m²)	17 ft³ (.48 m³)	3132 at 1 inch bead	783 at 2 inch bead
II-605 P10762	115.7 lbs	605 (56.2 m²)	50 ft³ (1.42 m³)	9236 at 1 inch bead	2309 at 2 inch bead

[1] Yield is based on free-rise density. We state our core density/free-rise density when describing the foam. Applying foam into a cavity may result in higher in-place densities due to packing effects. These higher densities may result in lower yields.

HardieSoffit®

HardieSoffit® Panel Product Description

HARDIESOFFIT® PANELS

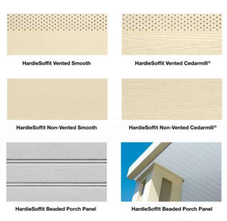
HardieSoffit® panels are 8 ft. and 12 ft. long, ¼ in. thick factory-primed fiber-cement panels designed to be used on the underside of eaves as soffit material. HardieSoffit panels are available as vented or non-vented boards. Vented HardieSoffit panels provide 5 sq. in. and VentedPlus™ provides 12.6 in. of net free ventilation per lineal foot of soffit.

James Hardie offers HardieSoffit panels in a range of time-saving pre-cut widths common to rake and eave applications. HardieSoffit panels come in either a smooth finish or Select Cedarmill® textured finish. Check with your local dealer for product availability. HardieSoffit panels can be combined with HardieTrim® Fascia boards used for fascia rakes and frieze applications to complete the eaves detailing.

HardieSoffit panels are also available with ColorPlus® Technology. The ColorPlus® coating is a factory-applied, oven-baked finish available on a variety of James Hardie® siding and trim products. See your local dealer for details and availability of products, colors and accessories.

HARDIESOFFIT® BEADED PORCH PANEL

HardieSoffit Beaded Porch Panel is a decorative fiber cement panel to be used as ceiling on the underside of porches or eaves as exterior panel materials. HardieSoffit beaded porch panel is ¼ in. thick, 4 ft. wide, 8 ft. in length, and has 2 in. o.c. beads, and comes with PrimePlus® factory primer and sealer. Must be finished with 100% acrylic paint. See your local dealer for details and availability of products, colors and accessories.



ADHERO 3000



Self-adhering, monolithic, vapor permeable membrane, and a durable weather resistive barrier and roof underlayment.

ADVANTAGES & PROPERTIES

ADHERO 3000 is a self-adhering, air barrier and vapor permeable water resistive barrier and roof underlayment. ADHERO 3000 delivers the first class safety and durability of every Pro Clima membrane, and is easy to install with its 10" (250 mm) top release strip, fully self-adhered backing and cutting guides.

- Unique monolithic, non-porous membrane that is actively vapor open which offers enhanced protection compared to microporous membranes
- Extremely high tear resistance and UV resistant cover fleece
- Reliable bonding on all standard construction materials thanks to excellent adhesive properties and full coverage with Pro Clima acrylic adhesive
- Split release paper strips allows for easy two-step installation
- Very waterproof and suitable for roofs with a water column of >32 ft (10m)
- Self-sealing around point penetrations (screws/nails) in walls
- Living Building Challenge Compliant – Red List Free

SIZES & DIMENSIONS

	STANDARD (1AR01513)
Roll Width	59" (1.5 m)
Roll Length	98'5" (30 m)
Roll Area	484 ft² (45 m²)

TECHNICAL DATA	
Protective and Covering Fleece	Polypropylene microfiber fleece
Membrane	Monolithic TEEE
Adhesive	Full surface acrylic adhesive

475

475 High Performance Building Supply
email: info@475.supply **phone**: 800-995-6329 **website (US/CAN)**: www.475.supply

ADHERO 3000

TECHNICAL DATA (continued)	
Color	Dark blue
Application Temperature	From 15 °F (-10 °C)

Attribute	Norm	Value
Surface weight	EN 1849-2	240 g/m² ; 0.79 oz/ft²
Thickness	EN 1849-2	0.70 mm ; 28 mils
Vapor permeance	E96 EN ISO 12572	8 perms 11 perms
Fire behavior	ASTM E84	Class A (FS:10 - SDI: 15)
Maximum recommended UV Exposure time		Climate Zone 4-8: 4 months on roofs, 6 months on walls Climate Zone 1-3: 3 months on roofs, 4 months on walls
Weather protection for mass timber		See ADHERO VISTO
Water Column	EN 20811	> 32' 10" (10 m)
Water Resistance	E331	Passed 2 hours a 300pa (6.24PSF)
Airtightness	ASTM E2357	0.0009 CFM/ft2 penetrated wall
Tensile strength	EN 12311-1	250 N/5 cm / 200 N/5 cm ; 29 lb/in / 23 lb/in
Nail tear resistance MD/CD	EN 12310-1	>45 lbf / >34 lbf ; >200 N / >150 N (depending on substrate)
Self sealing around nails / peel adhesion / weathering/thermal	AMAA 711	Passed / passed on several substrates / passed
Durability	EN 1297 EN 1296	Passed artificial ageing at 212 °F (100 °C)

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ADHERO 3000

CODE COMPLIANCE	
IBC - 1403.2 IRC - R703.1	Complies per ASTM E331 for 2 hours at 6.24PSF
IBC - 1404.2 IRC - R703	Passed AC38 testing as approved material
NBC 2015 5.4.1	Passed air leakage <0.02 L/(s·m²) @75 Pa (ASTM E2178)
NBC 2015 9.36.2.9 (c)	Passed air leakage <0.2 L/(s·m²) @75 Pa (ASTM E2357)
NBC 2020 9.27.3.2	CAN/CGSB 51.32M (Sheathing membrane): passed
NBC 2020 9.26.2	CAN/CGSB 51.32M (Sheathing membrane): passed

APPLICATION & SUBSTRATES

The ADHERO 3000 membrane is adhered directly to the exterior wall/roof (plywood, OSB, exterior gypsum, concrete etc) and creates a lasting bond by pressurizing the adhesive with a PRESSFIX. Overlaps of at least 6' (15 cm) are recommended on vertical and horizontal joints - guides are printed on the membrane. For durable bonds the substrate should be stable, dry, smooth and free of dust, silicones and grease. It can not adhere to frozen substrates. The installer is responsible for checking the suitability of the substrate. When in doubt an adhesion test is recommended. To connect to rough/uneven substrates, CONTEGA HF adhesive is recommended.

After membrane is applied cover with rainscreen/roof battens or exterior insulation as soon as possible. Please note: watertight and airtight seals can only be achieved on WRB membranes that have been laid without folds or creases and are correctly pressurized on properly prepared substrates. Certain exterior gypsum boards with factory applied water repellent coating require pre-treatment with a primer to increase adhesion for field verification. Please contact technical@475.supply for assistance.

For wood fiberboard (GUTEX etc) use Pro Clima TESCON Primer RP at top 8" (200mm) release paper strips. Pretreatment with TESCON Primer RP is necessary in the case of rough or porous surfaces such as wood fiber board insulation, rough/oily OSB, or substrates with insufficient stability (CMU, masonry and concrete). When in doubt, verify adhesion with an adhesion test.

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ADHERO 3000

GENERAL CONDITIONS

Use the full Pro Clima airtightness system to qualify for a 10 year comprehensive warranty.

Roof Underlayment: ADHERO 3000 can be used on roof pitches above 3:12 (14°) because of its monolithic TEEE layer, and as a long term roof underlayment with properly sealed penetrations, valleys and junctions.

Additional requirements for pitches below 3:12 :

- Clay tile roof below 14° require NAIDECK down to 2:12 (9.5°)
- Standing seam metal roofs do not require NAIDECK down to 2:12 (9.5°)
- Standing seam metal roofs require NAIDECK down to 1:12 (4.8°)
- Corrugated metal roofs with NAIDECK and primed overlaps using TESCON PRIMER RP down to 2:12 (9.5°). Gasketed screws must be used in the ridge of the metal roof. Do not screw in the valley
- Corrugated metal roofs with NAIDECK and primed overlaps using TESCON PRIMER RP down to 1:12 (4.8°) in CZ 2B, 3B, and 4B. Gasketed screws must be used in the ridge of the metal roof. Do not screw in the valley

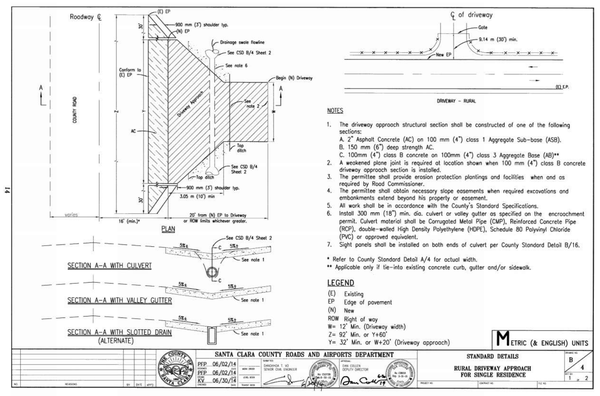
Temporary weather protection for roofs:
ADHERO can be used to protect roofs of buildings against precipitation during construction. They are not recommended as temporary roofing over occupied/finished spaces as leaks from application errors, unnoticed punctures, heavy wind/rain can force water into enclosure. Pro Clima and 475 High Performance Building Supply are not responsible for damages occurring as a result of water getting behind ADHERO membranes. If it is required to prevent all precipitation from entering the enclosure, we recommend additional measures (tarps) to keep your roof waterproof until the final roof is installed.

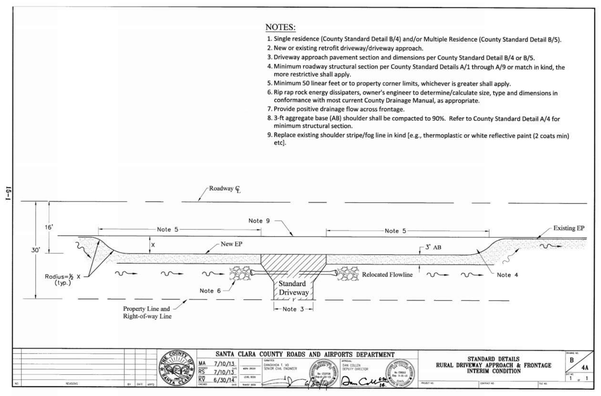
CLT Protection: See ADHERO VISTO

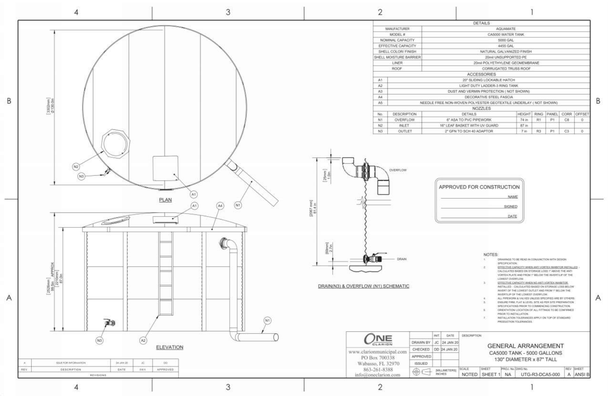




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UPDATED 2024







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WWW.alijaberarch.com

LICENSED ARCHITECT ALI JABER C38901 REN 01-31-2025 STATE OF CALIFORNIA

SEAL

DATE: 11/05/2024

PROJECT
SHYSHKA RESIDENCE
1285 W. EDMUNDSON
MORGAN HILL, CA 95037

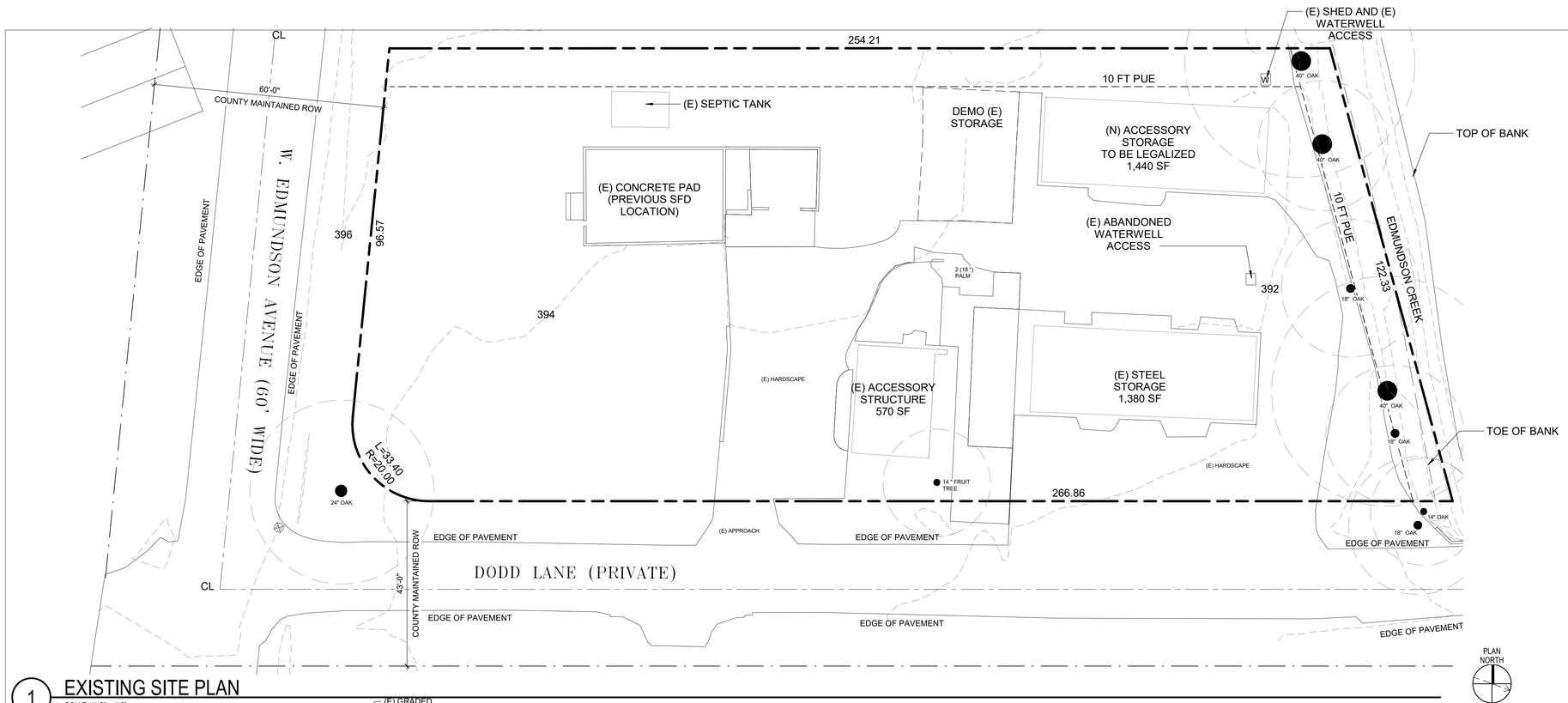
CLIENT
TREVAR & CAMILA SHYSHKA

ISSUED

MARK	DATE	DESCRIPTION

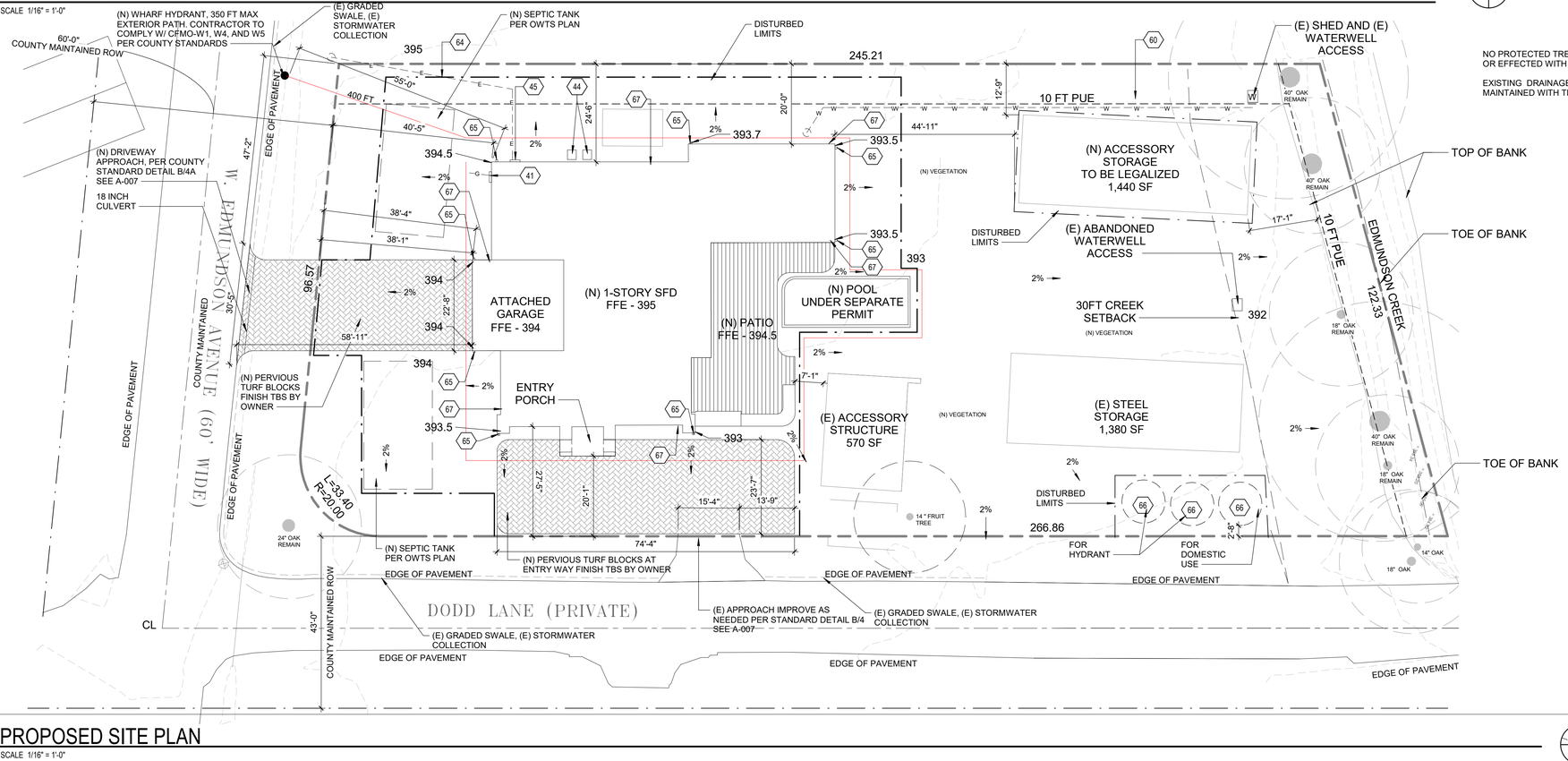
TITLE
SPECIFICATIONS

SHEET
A-007



1 EXISTING SITE PLAN

SCALE 1/16" = 1'-0"



2 PROPOSED SITE PLAN

SCALE 1/16" = 1'-0"

NO PROTECTED TREES SHALL BE REMOVED OR EFFECTED WITH THE PROPOSED WORK

EXISTING DRAINAGE PATTERNS ARE TO BE MAINTAINED WITH THE PROPOSED WORK

IMPERVIOUS AREA CALC.

(E) BUILDING AREA (DAMAGED BY FIRE): 1,015 SF
(E) ACCESSORY STRUCTURES = 1,950 SF
(E) ASPHALT PAVEMENT = 7,000 SF (TO BE REMOVED)

(E) IMPERVIOUS AREA = 9,965

(N) TOTAL BUILDING AREA: 4,469 SF
(N) COVERED PORCH: 50 SF
(N) REAR PATIO: 1,012 SF
(N) WATER TANKS: 250 SF
(N) ACCESSORY STRUCTURE = 1,440 SF
(E) ACCESSORY STRUCTURES = 1,950 SF

(N) IMPERVIOUS AREA = 9,171 SF

NET CHANGE PERVIOUS AREA = -794 SF

SHEET KEYNOTES

41	GAS METER
44	AC CONDENSING UNIT, FINAL LOCATION TBD BY OWNER
45	ELECTRICAL MAIN 200 AMP PANEL, FINAL LOCATION TBD BY OWNER
60	EXTEND AND RE-CONFIGURE (E) WATER WELL LINE CONNECTION. CONTRACTOR TO COORDNIATE WITH (E) CONDITIONS IN THE FIELD PER COUNTY STANDARDS AND CODE.
64	EXTEND (E) UNDERGROUND POWER SERVICE FROM (E) POWER POLE TO (N) PANEL AT HOUSE, IN ACCORDANCE WITH PG&E STANDARDS AND CBC. COORDINATE CONNECTION POINTS WITH PG&E.
65	STORMWATER DOWNSPOUT. FINAL LOCATION TBS BY OWNER. DRAIN AWAY FROM FOUNDATION AT TERMINATION POINT, 2% MINIMUM
66	5K GALLON STEEL WATER STORAGE TANK. FINAL PLACEMENT TBD BY OWNER AND CONTRACTOR.
67	HOSE BIB, FINAL LOCATION TBS BY OWNER

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LICENSED ARCHITECT ALI JABER C38901 REN 01-31-25 STATE OF CALIFORNIA

SEAL

DATE: 11/05/2024

PROJECT
SHYSHKA RESIDENCE

1285 W. EDMUNDSON
MORGAN HILL, CA 95037

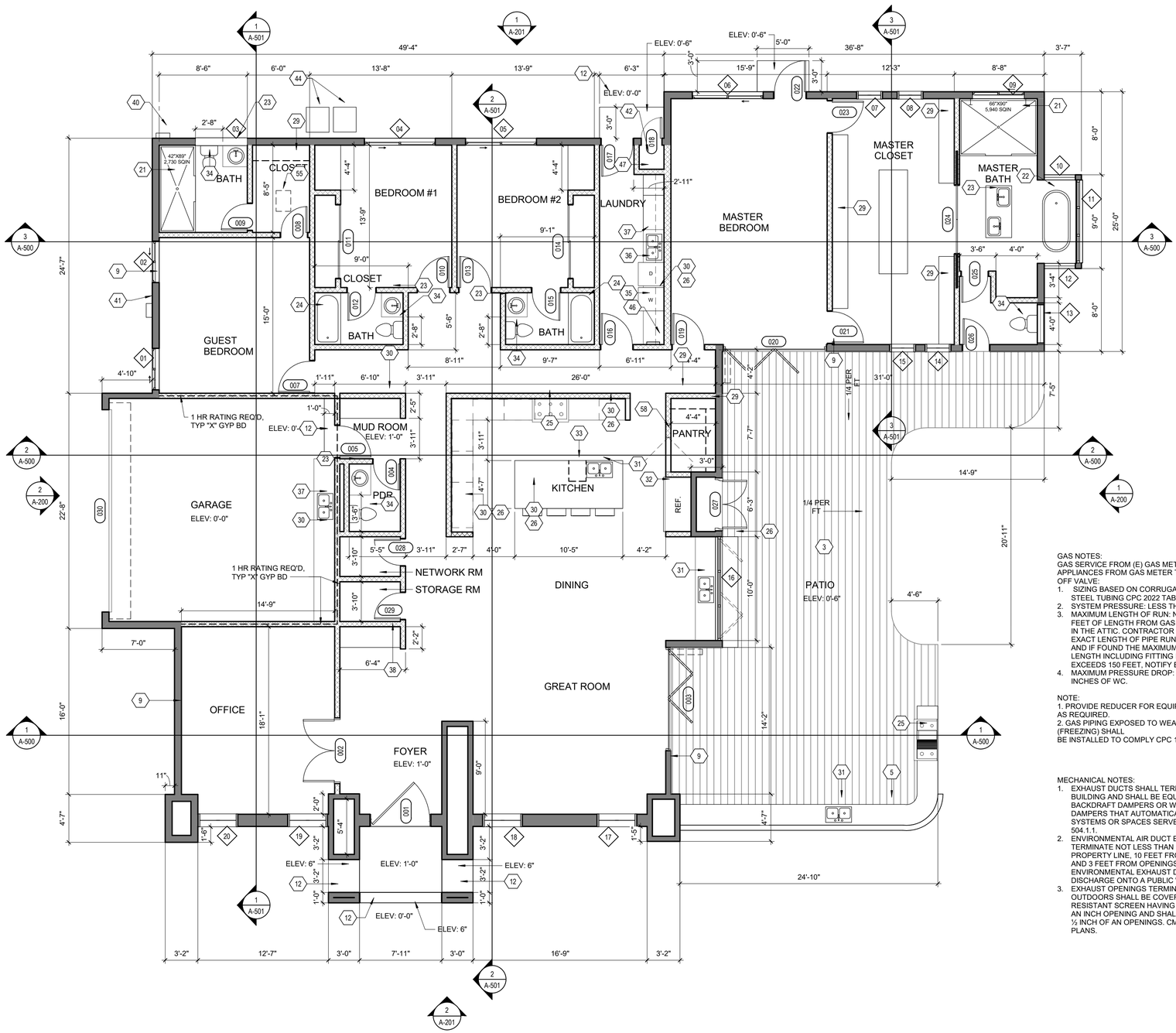
CLIENT
TREVAR & CAMILA SHYSHKA

ISSUED

MARK	DATE	DESCRIPTION

TITLE
SITE PLAN

SHEET
A-100



GAS NOTES:
GAS SERVICE FROM (E) GAS METER SERVING TO APPLIANCES FROM GAS METER TO APPLIANCE SHUT-OFF VALVE:

1. SIZING BASED ON CORRUGATED STAINLESS STEEL TUBING CPC 2022 TABLE 1215.1.3
2. SYSTEM PRESSURE: LESS THAN 2 PSI.
3. MAXIMUM LENGTH OF RUN: NOT TO EXCEED 150 FEET OF LENGTH FROM GAS METER TO FURNACE IN THE ATTIC. CONTRACTOR TO FIELD VERIFY THE EXACT LENGTH OF PIPE RUN UP TO FURNACE AND IF FOUND THE MAXIMUM TOTAL DEVELOPED LENGTH INCLUDING FITTING PRESSURE LOSSES EXCEEDS 150 FEET, NOTIFY ENGINEER.
4. MAXIMUM PRESSURE DROP: NOT TO EXCEED 0.5 INCHES OF WC.

NOTE:
1. PROVIDE REDUCER FOR EQUIPMENT CONNECTION AS REQUIRED.
2. GAS PIPING EXPOSED TO WEATHER CONDITION (FREEZING) SHALL BE INSTALLED TO COMPLY CPC 1210.1.4

MECHANICAL NOTES:

1. EXHAUST DUCTS SHALL TERMINATE OUTSIDE THE BUILDING AND SHALL BE EQUIPPED WITH BACKDRAFT DAMPERS OR WITH MOTORIZED DAMPERS THAT AUTOMATICALLY SHUT WHERE THE SYSTEMS OR SPACES SERVED ARE NOT IN USE. CMC 504.1.1.
2. ENVIRONMENTAL AIR DUCT EXHAUST SHALL TERMINATE NOT LESS THAN 3 FEET FROM PROPERTY LINE, 10 FEET FROM A FORCED AIR INLET, AND 3 FEET FROM OPENINGS INTO THE BUILDINGS. ENVIRONMENTAL EXHAUST DUCT SHALL NOT DISCHARGE ONTO A PUBLIC WALKWAY. CMC 502.2.1.
3. EXHAUST OPENINGS TERMINATING TO THE OUTDOORS SHALL BE COVERED WITH A CORROSION RESISTANT SCREEN HAVING NOT LESS THAN ¼ OF AN INCH OPENING AND SHALL HAVE NOT MORE THAN ½ INCH OF AN OPENINGS. CMC 502.1. ADD NOTE ON PLANS.

3 1ST FLOOR PLAN

SCALE 3/16" = 1'-0"

FLOOR PLAN LEGEND

- PARTITION TYPE INDICATOR
- 10 — WINDOW OR LOUVER IDENTIFIER
- 22 — KEYNOTE INDICATOR
- 234 — FURNITURE, FIXTURE & EQUIPMENT INDICATOR
- 11 — SIGNAGE INDICATOR
- 101A — DOOR OPENING IDENTIFIER
- PLAN NORTH — PLAN NORTH & TRUE NORTH INDICATOR
- OUTLET
- GFCI — GFCI - A.C (ABOVE COUNTER), WEATHER PROTECT (WP)
- QUAD OUTLET
- $ — SWITCH
- (N) DOOR
- DOOR TO BE DEMOLISHED
- (E) DOOR

WALL ASSEMBLY LEGEND

NEW EXTERIOR WALL OF 2X @ 16" O.C. WOOD STUDS W/ 1 LAYER OF 5/8 GYP.BD. ON THE INSIDE AND STUCCO ON THE OUTSIDE

NEW INTERIOR WALL OF 2X @ 16" O.C. WOOD STUDS W/ 1 LAYER OF 5/8 GYP.BD. ON BOTH SIDES

NOTE:
ALL WALLS ARE EXISITING TO REMAIN, UNLESS NOTED OTHERWISE ON PLANS OR ELEVATIONS. 1 HOUR RATING, TYP"X" GYP BD REQUIRED WHEN ASJACENT TO GARAGE

SHEET KEYNOTES

3	2X6 COMPOSITE DECKING, TO COMPLY W/ R507.1
5	OUTDOOR BBQ, CONTRACTOR TO PROVIDE GAS, ELECTRICAL AND PLUBMING CONNECTIONS
9	PROVIDE 2X8 FRAMING
12	6" CONCRETE STEP
21	TILED SHOWER,CONTRACTOR TO PROVIDE HOOKUPS AS REQ'D BY CODE. FINISH AND STYLE TBS BY OWNER. TEMPERED GLASS REUQUIRED FOR GLASS DOOR
22	FREE STANDING TUB TBS BY OWNER
23	VANITY SINK TBS BY OWNER
24	TUB AND SHOWER COMBO, CONTRACTOR TO PROVIDE HOOKUPS AS REQ'D
25	GAS RANGETOP W/HOOD, CONTRACTOR TO PROVIDE HOOKUPS AS REQ'D
26	COUNTERTOP AND BACKSPLASH TBS BY OWNER
29	WOOD SHELVING. COLOR,FINISH AND PLACEMENT TBS BY OWNER
30	BASE/UPPER CABINETS TBS BY OWNER
31	KITCHEN SINK TBS BY OWNER, CONTRACTOR TO PROVIDE PLUMBING HOOKUPS AS REQ'D
32	REFRIGERATOR, CONTRACTOR TO PROVIDE ELECTRICAL AND WATER HOOKUPS AS REQ'D
33	DISHWASHER, CONTRACTOR TO PROVIDE ELECTRICAL AND WATER HOOKUPS AS REQ'D
34	TOILET AND VENT ABOVE.
35	WASHER, CONTRACTOR TO PROVIDE ELECTRICAL AND WATER HOOKUPS AS REQ'D
36	DRYER, CONTRACTOR TO PROVIDE ELECTRICAL AND GAS HOOKUPS AS REQ'D. VENT DIRECTLY OUTSIDE
37	UTILITY SINK TBS BY OWNER, CONTRACTOR TO PROVIDE PLUMBING HOOKUPS AS REQ'D
38	TALL CABINET TBS BY OWNER
40	200 AMP ELECTRICAL METER
41	GAS METER
42	WATER HEATER PER TITLE 24 SPECIFICATIONS
44	AC CONDENSING UNIT, FINAL LOCATION TBD BY OWNER
46	ELECTRICAL 100 AMP SUBPANEL, LOCATION TO BE CONFIRMED BY OWNER
47	DOG WASH, CONTRACTOR TO PROVIDE PLUMBING HOOKUPS AS REQ'D
55	18X24 CRAWLSPACE ACCESS, OWNER TO CONFIRM FINAL LOCATION W/ CONTRACTOR
58	CUSTOM HIDDEN DOOR/SHELVING COMBO, STYLE AND FINISH TBS BY OWNER

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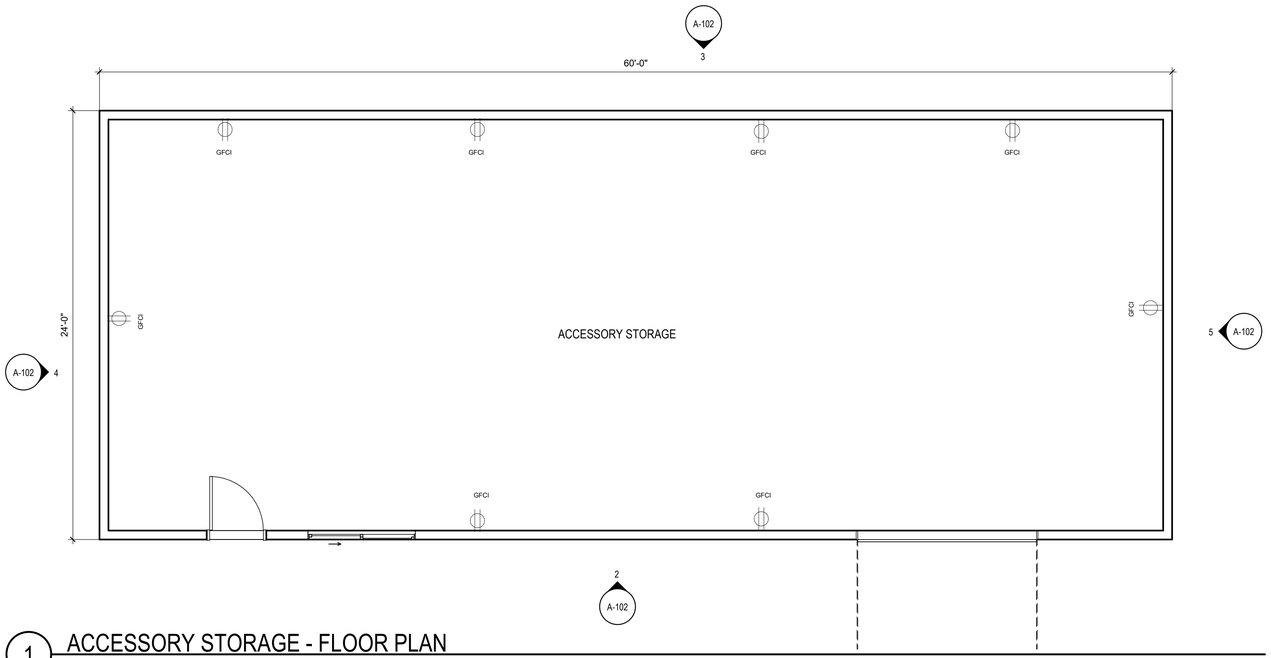
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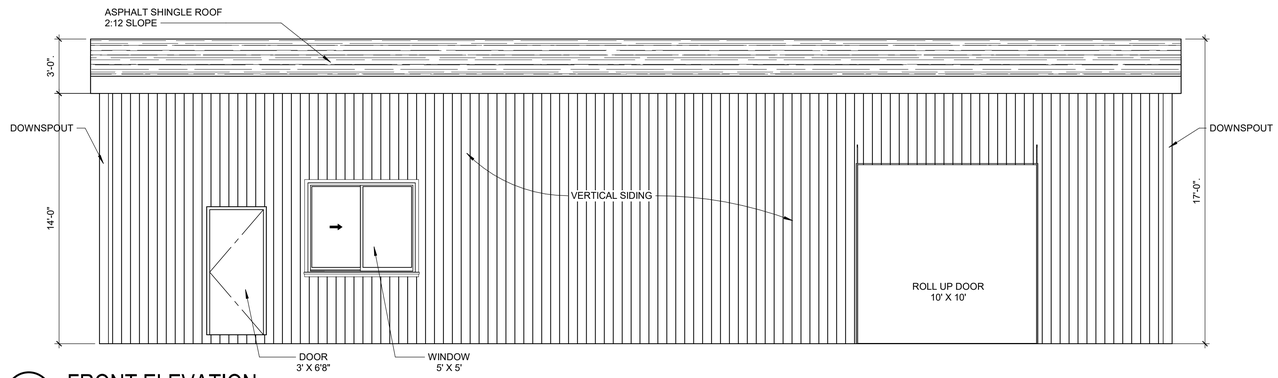
TITLE
1ST FLOOR PLAN

SHEET
A-101



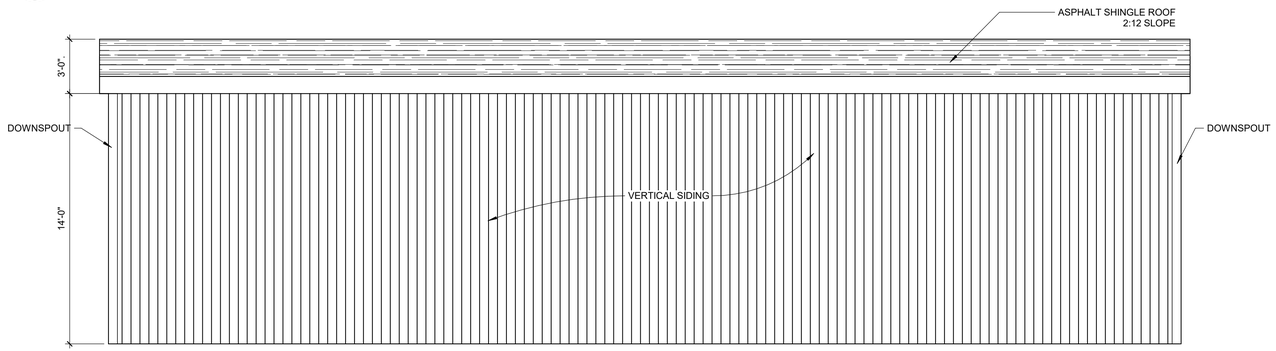
1 ACCESSORY STORAGE - FLOOR PLAN

SCALE 1/4" = 1'-0"



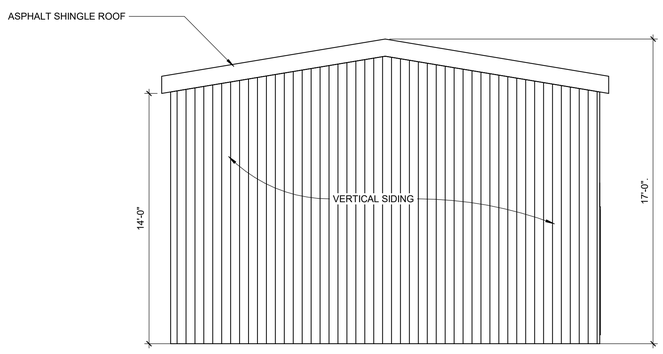
2 FRONT ELEVATION

SCALE 1/4" = 1'-0"



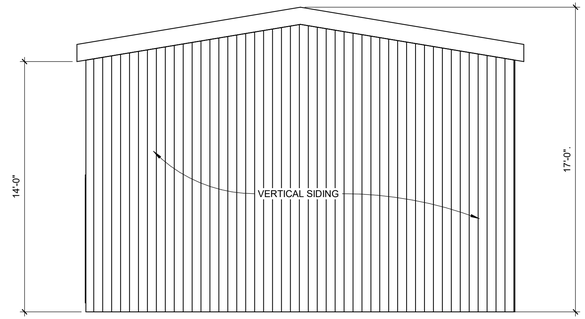
3 REAR ELEVATION

SCALE 1/4" = 1'-0"



4 SIDE ELEVATION 1

SCALE 1/4" = 1'-0"



5 SIDE ELEVATION 2

SCALE 1/4" = 1'-0"

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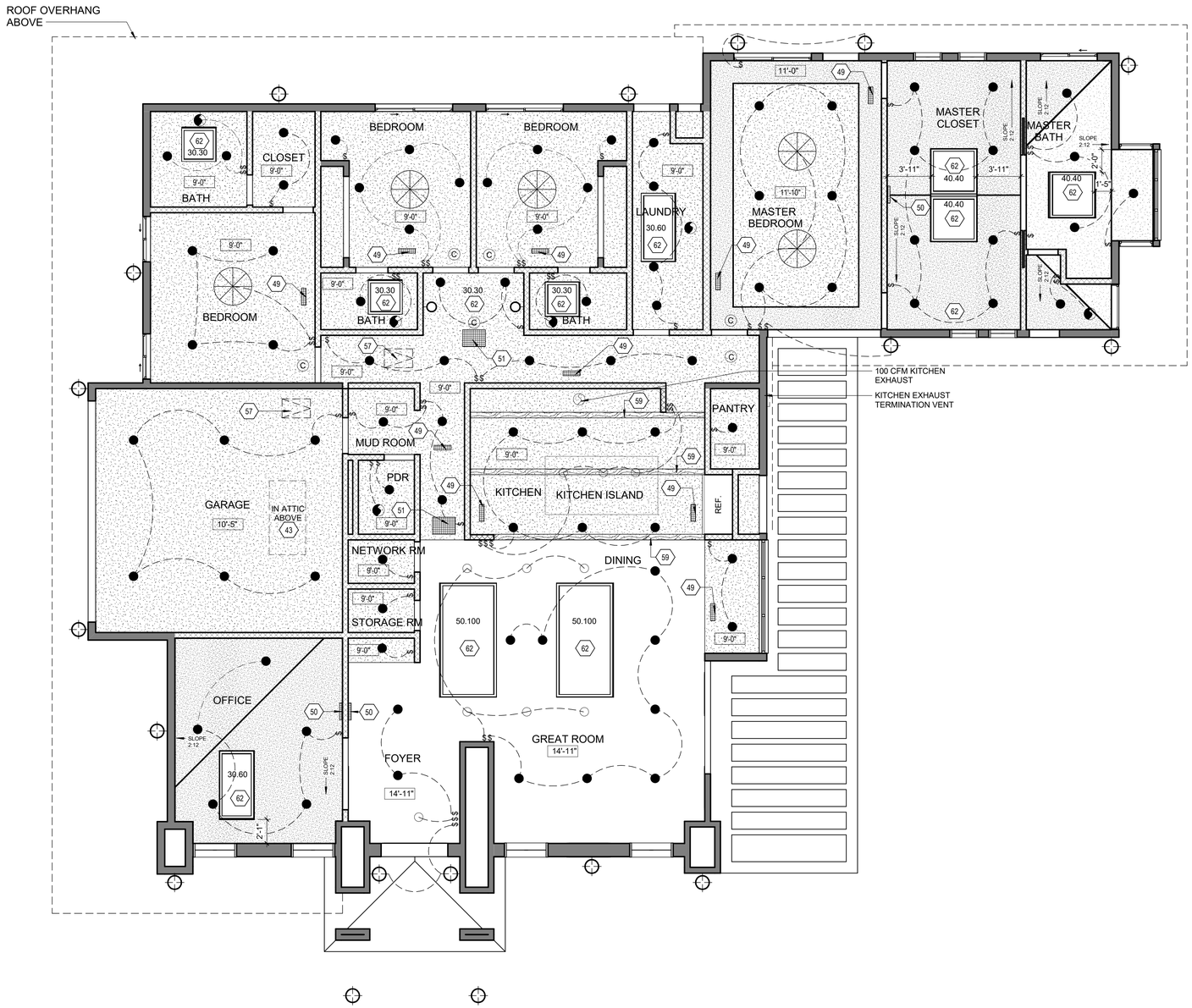
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MARK	DATE	DESCRIPTION

TITLE
ACCESSORY STORAGE

SHEET
A-102



1 FIRST FLOOR CEILING PLAN

SCALE 3/16" = 1'-0"

CEILING LEGEND

	NEW GYP BD CEILING
	FAN 50 CFM EXHAUSTED DIRECTLY TO THE OUTSIDE
	LIGHTING, TBS BY OWNER
	OUTLET
GFCI	GFCI, WEATHER PROTECT (WP)
	QUAD OUTLET
$	DIMMABLE SWITCH (X) MULTIWAY. CONFIRM STYLE AND COLOR W/ OWNER
C	SMOKE DETECTOR/CARBON MONOXIDE COMBO
	SWITCHING
	EXTERIOR LIGHTING W/ FLOOD LIGHTS TO BE CONTROLLED VIA A MASTER SWITCH, TBS BY OWNER
8'-0" CEILING HEIGHT	CEILING TAG
	CEILING FAN, TBS BY OWNER
	WALL SCONE, TBS BY OWNER
	PENDANT LIGHTING, TBS BY OWNER

SHEET KEYNOTES

43	FURNACE AND ERV SYSTEM PER TITLE 24 SPECIFICATIONS. FIELD VEIRFY CONNECTIONS AND CUTING IN FIELD
49	CEILING MOUNTED SUPPLY DIFFUSER, OWNER TO CONFIRM FINAL LOCATION. CONTRACTOR TO FIELD VERIFY BEST DUCT ROUTING.
50	WALL MOUNTED SUPPLY DIFFUSER, OWNER TO CONFIRM FINAL LOCATION. CONTRACTOR TO FIELD VERIFY BEST DUCT ROUTING.
51	CEILING MOUNTED RETURN AIR DIFFUSER, OWNER TO CONFIRM FINAL LOCATION. CONTRACTOR TO FIELD VERIFY BEST DUCT ROUTING.
57	22X30 ATTIC ACCESS W/ PULL DOWN LADDER, LOCATION TO BE FINALISED BY CONTRACTOR
59	EXPOSED BEAM, FINISH AND WRAP TBS BY OWNER
62	SKYLIGHT REFER TO ROOF PLAN FOR SIZE , SPECIFICATIONS PER TITLE 24. MODEL TBS BY OWNER

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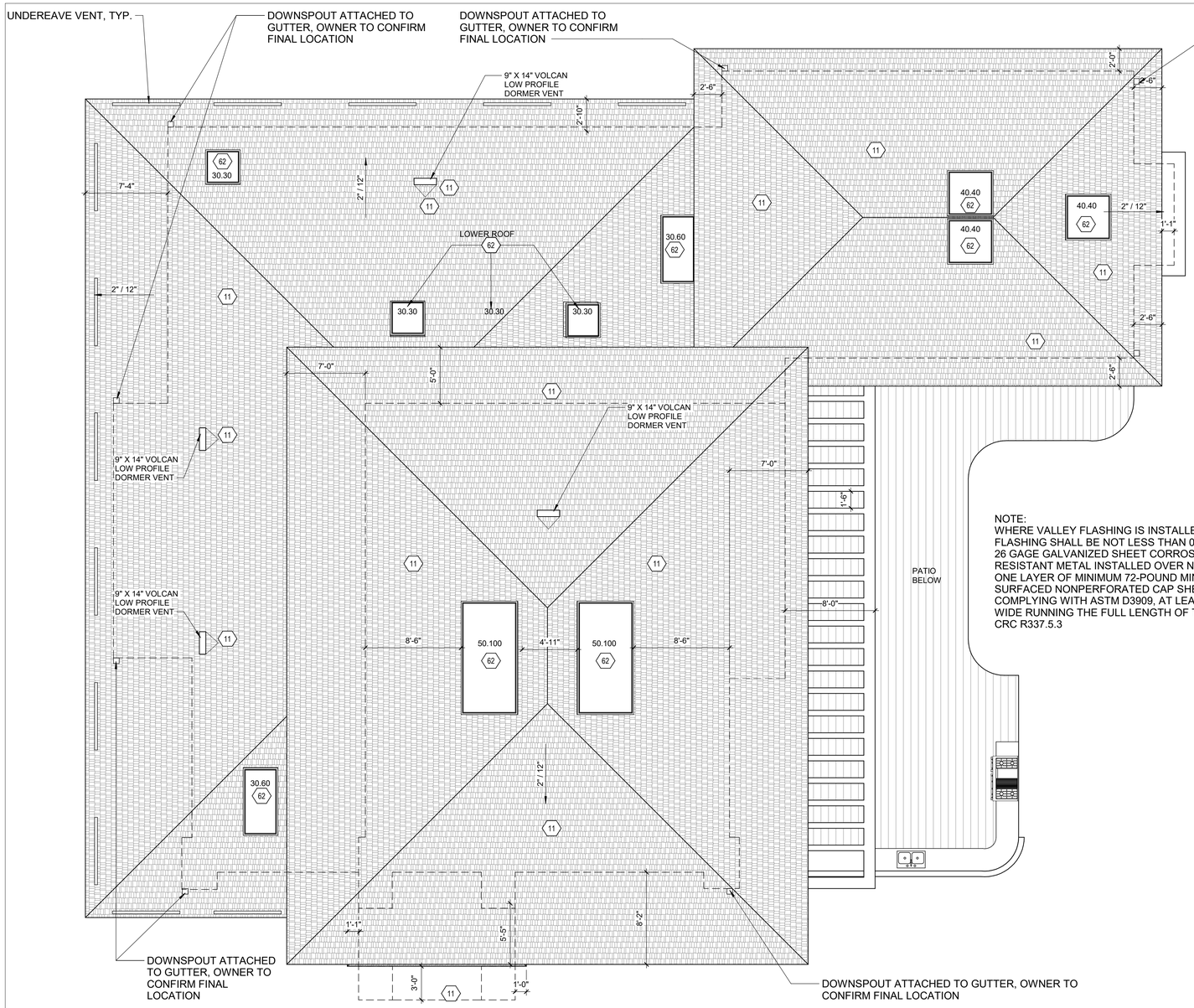
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MARK	DATE	DESCRIPTION

TITLE
1ST FLOOR CEILING PLAN

SHEET
A-103



NOTE:
WHERE VALLEY FLASHING IS INSTALLED, THE FLASHING SHALL BE NOT LESS THAN 0.019-INCH NO. 26 GAGE GALVANIZED SHEET CORROSION RESISTANT METAL INSTALLED OVER NOT LESS THAN ONE LAYER OF MINIMUM 72-POUND MINERAL-SURFACED NONPERFORATED CAP SHEET COMPLYING WITH ASTM D3909, AT LEAST 36-INCH-WIDE RUNNING THE FULL LENGTH OF THE VALLEY. CRC R337.5.3

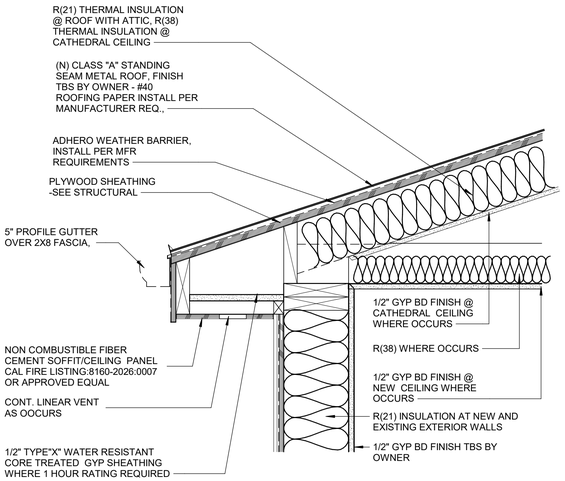
1 ROOF PLAN

SCALE 3/16" = 1'-0"

SHEET KEYNOTES

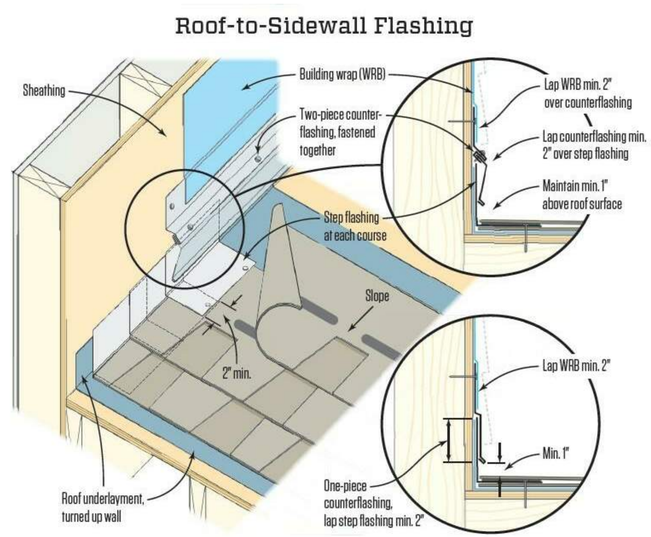
11 CLASS (A) COMPOSITE ROOF, FINISH TBS BY OWNER. INSTALL PER MFR REQUIREMENTS

62 SKYLIGHT REFER TO ROOF PLAN FOR SIZE , SPECIFICATIONS PER TITLE 24. MODEL TBS BY OWNER



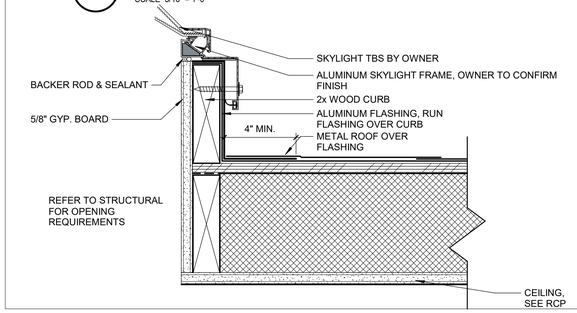
2 TYP EXTERIOR ROOF DETAIL

NTS



3 ROOF FLASHING DETAIL

NTS



4 SKYLIGHT CURB DETAIL

NTS

ROOF ATTIC VENTILATION:

VENT REQUIRED FOR ATTIC AREAS:
ROOF = 2525 /150 = 16.8 SF

PROPOSED CONT. EAVE VENTS : = 13 X (1.5 SF) 19 s.f.
9"X14" LOW PROFILE DORMER VENT (.875 s.f.) x 4 = 3.5 s.f.

TOTAL ATTIC VENTILATION = 22.5 s.f. PROVIDED

NOTE:
OPENINGS SHALL HAVE CORROSION-RESISTANT, WIRE MESH WITH 1/8" MIN & 1/4" MAX. OPENINGS (TYP.) CLASS (A) MATERIAL ROOF GUTTERS SHALL BE DESIGNED TO PREVENT THE ACCUMULATIONOF LEAVES & DEBRIS A MINIMUM OF 1" AIRSPACE SHALL BE PROVIDED BETWEEN INSULATION & ROOFING SHEATHING

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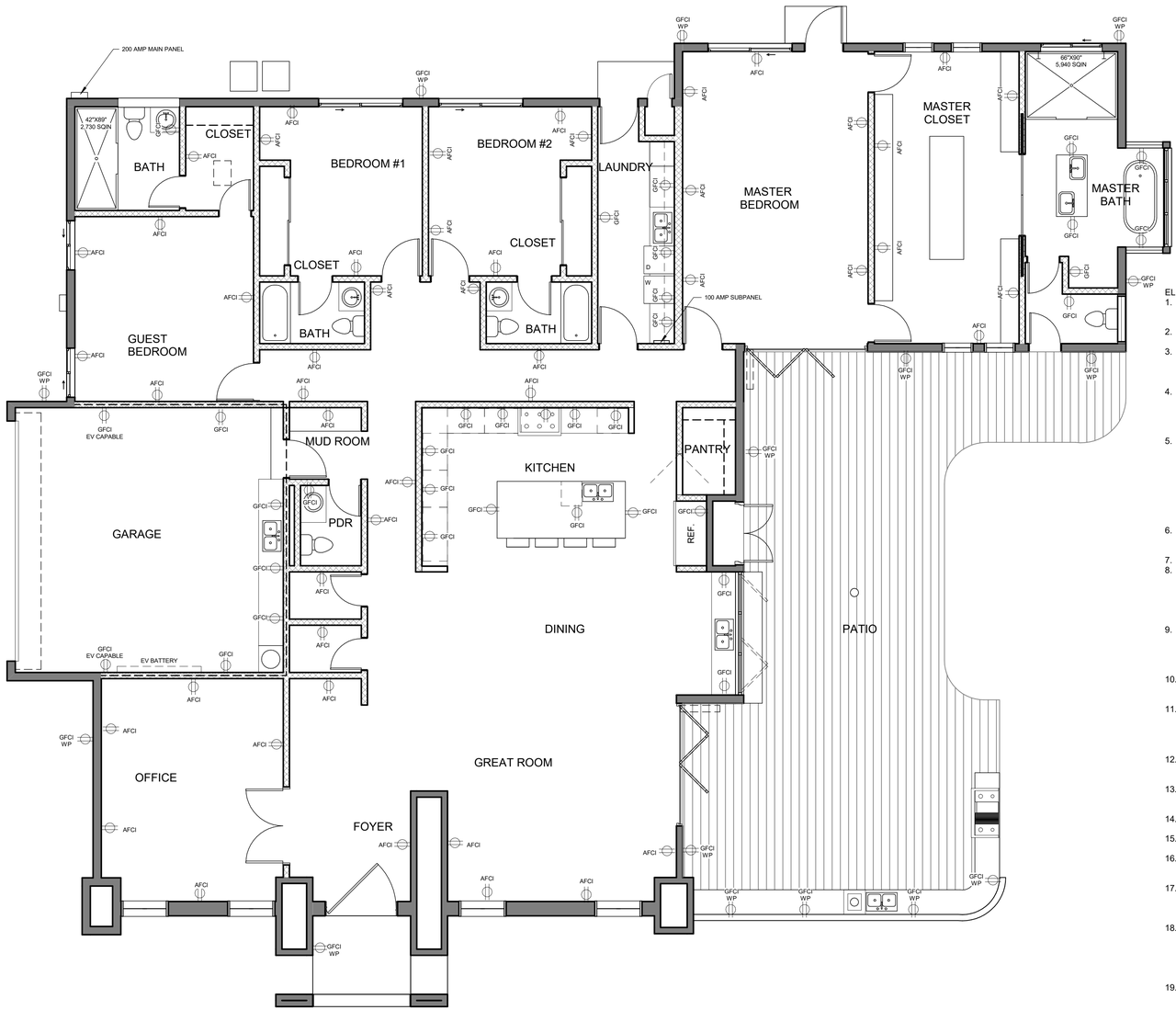
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TITLE
ROOF PLAN & DETAILS

SHEET
A-105



1 1ST FLOOR POWER PLAN

SCALE 3/16" = 1'-0"

ELECTRICAL NOTES:

1. SMOKE DETECTORS SHALL BE EQUIPPED WITH A BATTERY BACK-UP AND SOUND AN ALARM AUDIBLE IN ALL SLEEPING AREA.
2. KITCHEN LIGHTING SHALL BE HIGH EFFICACY LUMINARIES.
3. RECESSED LUMINARIES INSTALLED IN INSULATED CEILING SHALL BE "IC" RATED (AIR TIGHT) AND "AT" RATED (AIR TIGHT) AND SHALL BE SEALED AND/OR GASKETED BETWEEN CEILING AND HOUSING.
4. OUTDOOR LIGHTING ATTACHED TO THE BUILDING SHALL BE HIGH EFFICACY LUMINARIES OR CONROLLED BE A MOTION SENSOR WITH INTEGRATED PHOTO-CONTROL CERTIFIED TO COMPLY WITH SECTION 119(d).
5. ALL 120-VOLT, SINGLE PHASE, 15 AND 20 AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN DWELLING UNIT FAMILY ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER, COMBINATION TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT.
6. LIGHTING IN GARAGES, LAUNDRY ROOMS AND UTILITY ROOMS SHALL BE HIGH EFFICACY AND MUST BE CONTROLLED WITH A VACANCY SENSOR.
7. ALL LUMINAIRS SHALL BE HIGH EFFICACY
8. VERIFY THAT A SMOKE DETECTOR IS PROVIDED IN EACH SLEEPING ROOM AND IN EACH CORRIDOR OR AREA GIVING ACCESS TO EACH SLEEPING AREA. SMOKE DETECTORS SHALL SOUND AN AUDIBLE ALARM IN ALL SLEEPING AREARS OF THE DWELLING UNIT IN WHICH THEY ARE LOCATED.
9. IN THE KITCHEN AND DINING ROOM , PROVIDE RECEPTACALE OUTLETS AT EACH WALL COUNTER SPACE 12-in OR WIDER; AND INSTALLED SO THAT NO POINT ALONG THE WALL LINE IS MORE THAN 24-in FROM AN OUTLET
10. PROVIDE GROUND-FAULT CIRCUIT - INTERRUPTER PROTECTION (GFCI) FOR ALL 125-VOLT , SINGLE-PHASE 20 AMPERE RECEPTACLES.
11. **2022 CEC 406.12 TAMPER-RESISTANCE RECEPTACLES IN DWELLING UNITS**. IN ALL AREAS SPECIFIED IN 210.52, ALL NONLOCKING-TYPE 125 VOLT, 15- AND 20- AMPERE RECEPTACLES SHALL BE LISTED TAMPER-RESISTANCE RECEPTACLES.
12. PROVIDE A MINIMUM OF 2-20 AMP. SMALL APPLIANCE CIRCUITS FOR THE KITCHEN COUNTER TOPS. SUCH CIRCUIT SHALL HAVE NO OTHER OUTLETS.
13. PROVIDE A MINIMUM OF 1-20 AMP. LAUNDRY BRANCH CIRCUIT. SUCH CIRCUIT SHALL HAVE NO OTHER OUTLETS.
14. PROVIDE UFER OR OTHER APPROVED GROUND PER CEC 250-50.
15. 8. ALL NEW RECEPTACLES SHALL BE AS LISTED TAMPERED RESISTANCE
16. ALL BATHROOM EXHAUST FANS MUST BE CONTROLLED BY A HUMIDISTAT WHICH SHALL BE READILY ACCESSIBLE.
17. GFI OUTLETS SHALL BE PROVIDED IN BATHROOMS, GARAGES, BASEMENTS, CRAWL SPACES, OUTSIDE, SINKS AND AT ALL KITCHEN COUNTERS AND ISLANDS.
18. ALL POWER AND LIGHTING OUTLETS IN FAMILY ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, HALLWAYS AND SIMILAR AREAS ARE TO BE PROTECTED BY A "AFCI BREAKER". KITCHEN, BATHROOMS, AND BASEMENTS ARE EXEMPT.
19. BATHROOMS AND POWDER ROOMS ARE REQUIRED TO HAVE AT LEAST ONE GFI RECEPTACLE OUTLET WITHIN 36" OF EACH LAVATORY.

CEILING LEGEND

- NEW GYP BD CEILING
- FAN 50 CFM EXHAUSTED DIRECTLY TO THE OUTSIDE
- LIGHTING, TBS BY OWNER
- OUTLET
- GFCI — GFCI, WEATHER PROTECT (WP)
- QUAD OUTLET
- $ — DIMMABLE SWITCH (X) MULTIWAY. CONFIRM STYLE AND COLOR W/ OWNER
- C — SMOKE DETECTOR/CARBON MONOXIDE COMBO
- SWITCHING
- EXTERIOR LIGHTING W/ FLOOD LIGHTS TO BE CONTROLLED VIA A MASTER SWITCH, TBS BY OWNER
- 8'-0" — CEILING HEIGHT — CEILING TAG
- CEILING FAN, TBS BY OWNER
- WALL SCONE, TBS BY OWNER
- PENDANT LIGHTING, TBS BY OWNER

WALL ASSEMBLY LEGEND

- NEW EXTERIOR WALL OF 2X @ 16" O.C. WOOD STUDS W/ 1 LAYER OF 5/8 GYP.BD. ON THE INSIDE AND STUCCO ON THE OUTSIDE
- NEW INTERIOR WALL OF 2X @ 16" O.C. WOOD STUDS W/ 1 LAYER OF 5/8 GYP.BD. ON BOTH SIDES

NOTE:
ALL WALLS ARE EXISITING TO REMAIN, UNLESS NOTED OTHERWISE ON PLANS OR ELEVATIONS. 1 HOUR RATING, TYP"X" GYP BD REQUIRED WHEN ASJACENT TO GARAGE

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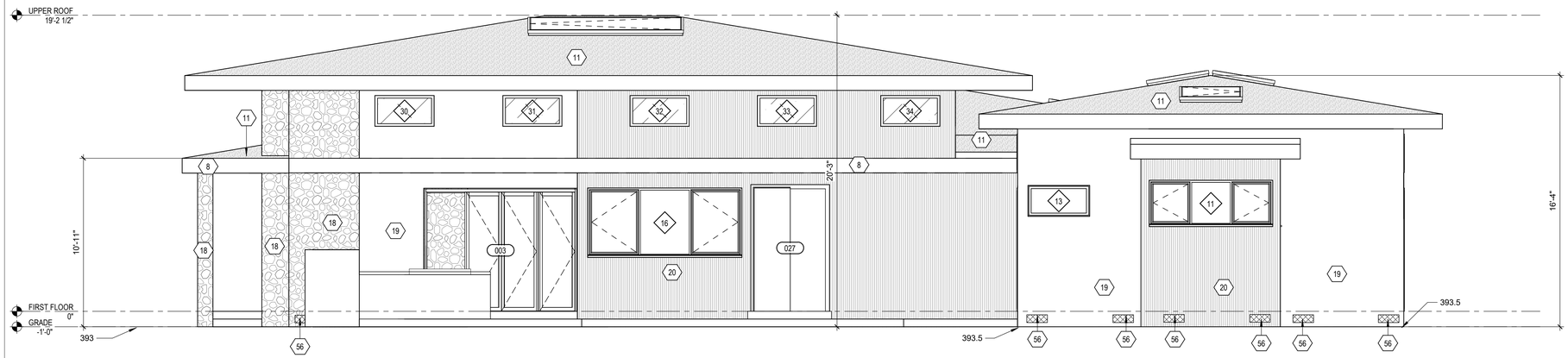
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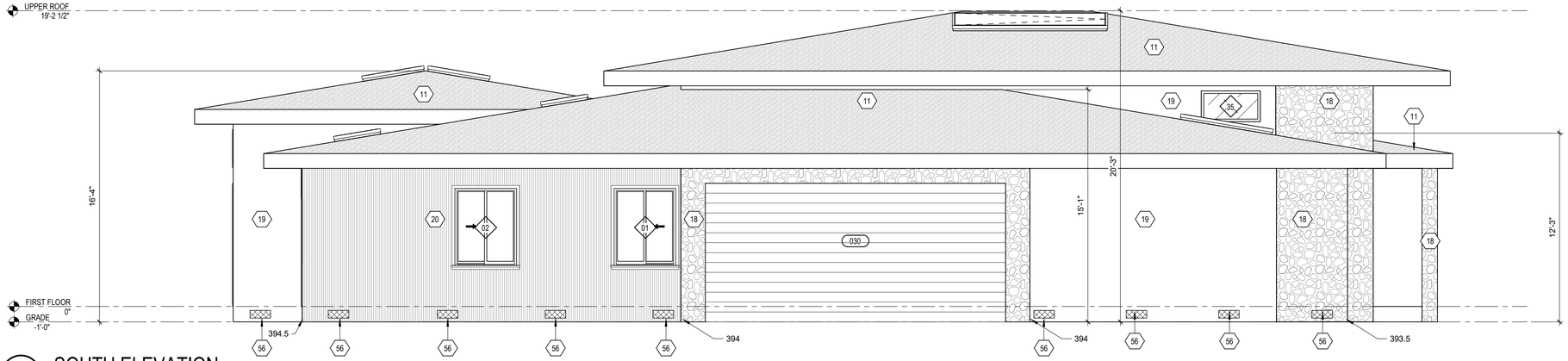
TITLE
1ST FLOOR POWER PLAN

SHEET
A-106



1 NORTH ELEVATION

SCALE 1/4" = 1'-0"



2 SOUTH ELEVATION

SCALE 1/4" = 1'-0"

CRAWL SPACE VENTILATION:

VENT REQUIRED FOR CRAWL SPACE AREAS:
(N) CRAWL SPACE AREA = 3,950 SF /150 = 26.3 SF

PROPOSED VENTS :
6"x16" VENT (0.66 S.F.) x 40 = 26.4 s.f.

TOTAL CRAWL SPACE VENTILATION = 26.4 s.f. PROVIDED

NOTE:
OPENINGS SHALL HAVE CORROSION-RESISTANT, WIRE MESH WITH 1/8" MIN & 1/4" MAX. OPENINGS (TYP.) CLASS (A) MATERIAL

FLOOR PLAN LEGEND

ROOF----------GAF COMP. SHINGLE, TIMBERLINE HDZ - BLACK
EXTERIOR WALL----------SBP, SMOOTH ACRYLIC STUCCO (CREAM FINISH)
EXTERIOR DOOR---------- ANDERSON E-SERIES - BLACK FRAME FINISH
EXTERIOR WINDOW----------ANDERSON E-SERIES - BLACK FRAME FINISH
EXTERIOR ACCENT WALL-------K2STONE - BERKSHIRE LIMESTONE VENEER

SHEET KEYNOTES

8	TRIM, FINISH TBS BY OWNER
11	CLASS (A) COMPOSITE ROOF. FINISH TBS BY OWNER. INSTALL PER MFR REQUIREMENTS
18	EXTERIOR WALL STONE FINISH, SEE A-501 FOR TYPICAL DETAILS. FINISHES TBS BY OWNER
19	EXTERIOR WALL STUCCO FINISH, SEE A-501 FOR TYPICAL DETAILS. FINISHES TBS BY OWNER
20	EXTERIOR WALL WOOD SIDING FINISH, SEE A-501 FOR TYPICAL DETAILS. FINISHES TBS BY OWNER
56	6X16 CRAWLSPACE VENTILATION VENTS, VENTS SHALL BE CORROSIVE RESISTANT WIRE MESHW/ 1/8" MIN AND 1/4" MAX OPENINGS TYP. CLASS A MATERIAL

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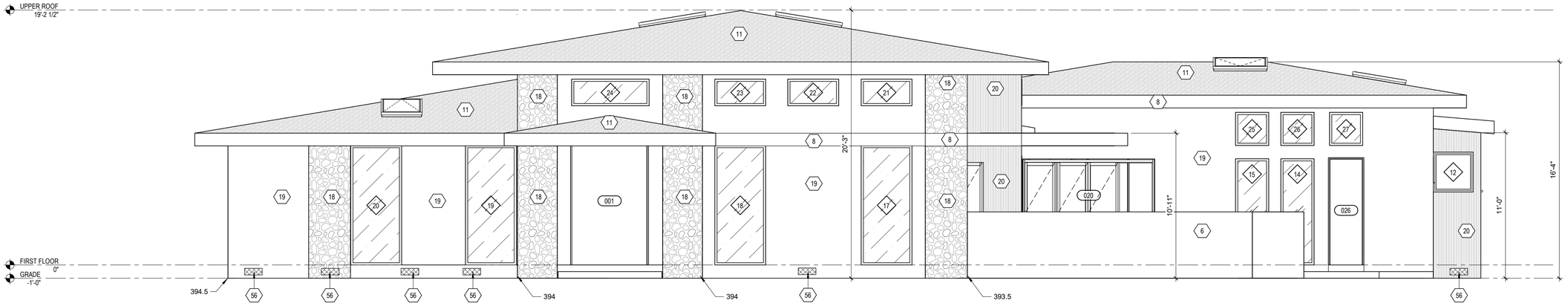
CLIENT
TREVAR & CAMILA SHYSHKA

ISSUED

MARK	DATE	DESCRIPTION

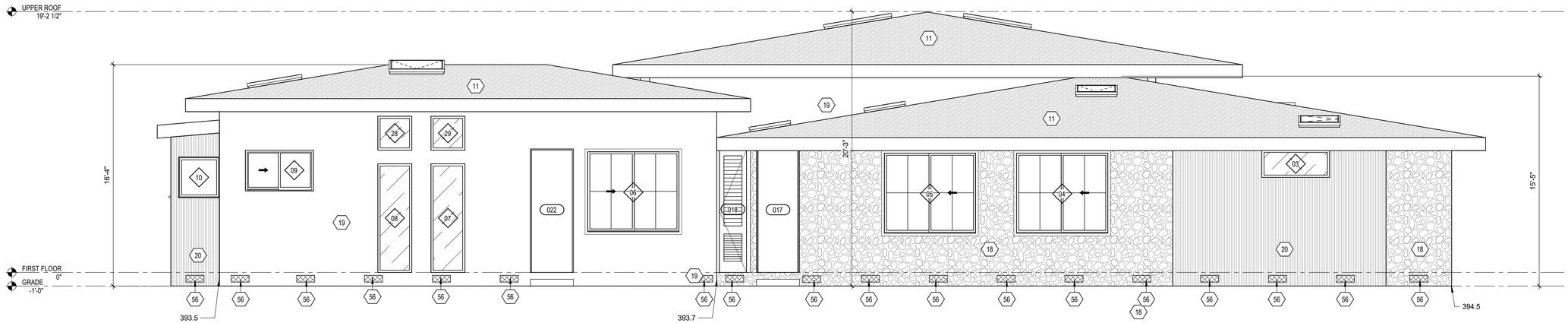
TITLE
EXTERIOR ELEVATIONS

SHEET
A-200



2 EAST ELEVATION

SCALE 1/4" = 1'-0"



1 WEST ELEVATION

SCALE 1/4" = 1'-0"

SHEET KEYNOTES

6	5 FT TALL OUTDOOR SITE WALL, FINISH TBS BY OWNER
8	TRIM, FINISH TBS BY OWNER
11	CLASS (A) COMPOSITE ROOF, FINISH TBS BY OWNER. INSTALL PER MFR REQUIREMENTS
18	EXTERIOR WALL STONE FINISH, SEE A-501 FOR TYPICAL DETAILS. FINISHES TBS BY OWNER
19	EXTERIOR WALL STUCCO FINISH, SEE A-501 FOR TYPICAL DETAILS. FINISHES TBS BY OWNER
20	EXTERIOR WALL WOOD SIDING FINISH, SEE A-501 FOR TYPICAL DETAILS. FINISHES TBS BY OWNER
56	6X16 CRAWLSPACE VENTILATION VENTS, VENTS SHALL BE CORROSIVE RESISTANT WIRE MESHW/ 1/8" MIN AND 1/4" MAX OPENINGS TYP. CLASS A MATERIAL

FLOOR PLAN LEGEND

ROOF----------GAF COMP. SHINGLE, TIMBERLINE HDZ - BLACK
EXTERIOR WALL----------SBP, SMOOTH ACRYLIC STUCCO (CREAM FINISH)
EXTERIOR DOOR---------- ANDERSON E-SERIES - BLACK FRAME FINISH
EXTERIOR WINDOW----------ANDERSON E-SERIES - BLACK FRAME FINISH
EXTERIOR ACCENT WALL------K2STONE - BERKSHIRE LIMESTONE VENEER

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LICENSED ARCHITECT ALI JABER C38901 REN 01-31-25 STATE OF CALIFORNIA

SEAL

DATE: 11/05/2024

PROJECT
SHYSHKA RESIDENCE

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MORGAN HILL, CA 95037

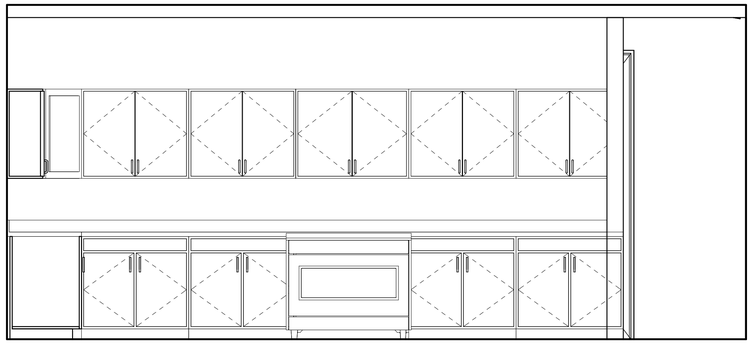
CLIENT
TREVAR & CAMILA SHYSHKA

ISSUED

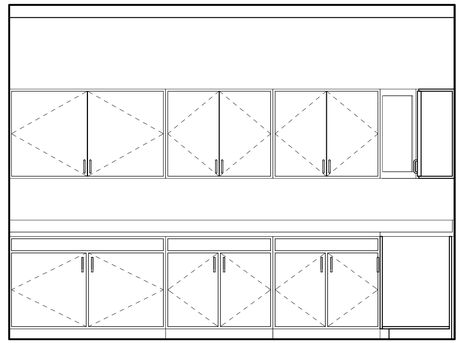
MARK	DATE	DESCRIPTION

TITLE
EXTERIOR ELEVATIONS

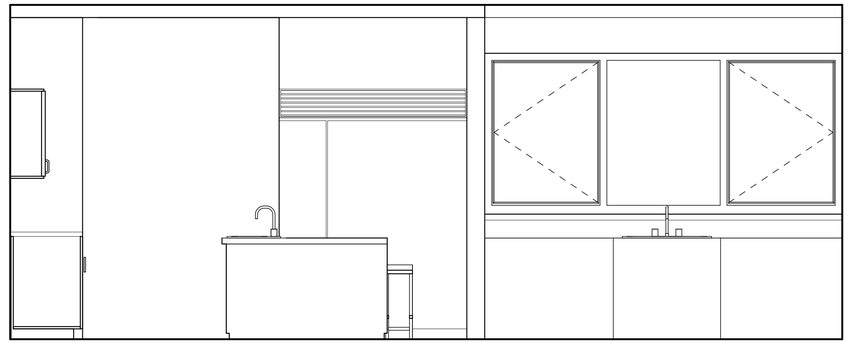
SHEET
A-201



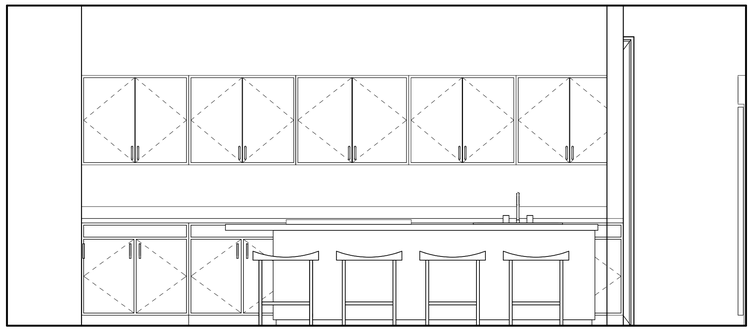
1 KITCHEN ELEVATION 1
SCALE 1/2" = 1'-0"



2 KITCHEN ELEVATION 2
SCALE 1/2" = 1'-0"



3 KITCHEN ELEVATION 3
SCALE 1/2" = 1'-0"



4 KITCHEN ELEVATION 4
SCALE 1/2" = 1'-0"

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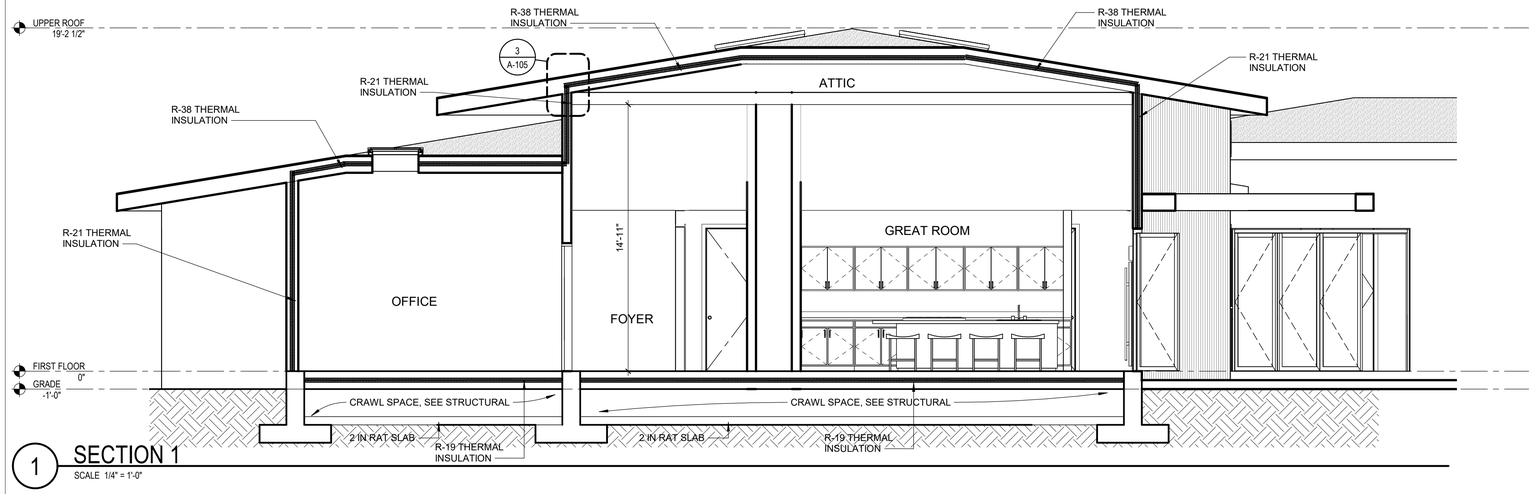
CLIENT
TREVAR & CAMILA SHYSHKA

ISSUED

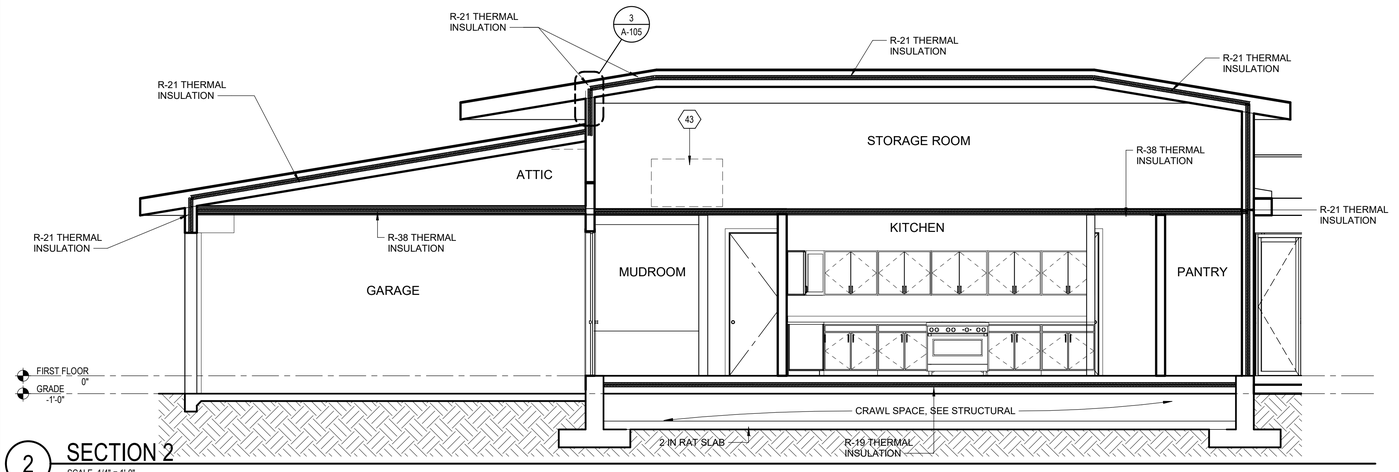
MARK	DATE	DESCRIPTION

TITLE
INTERIOR
ELEVATIONS

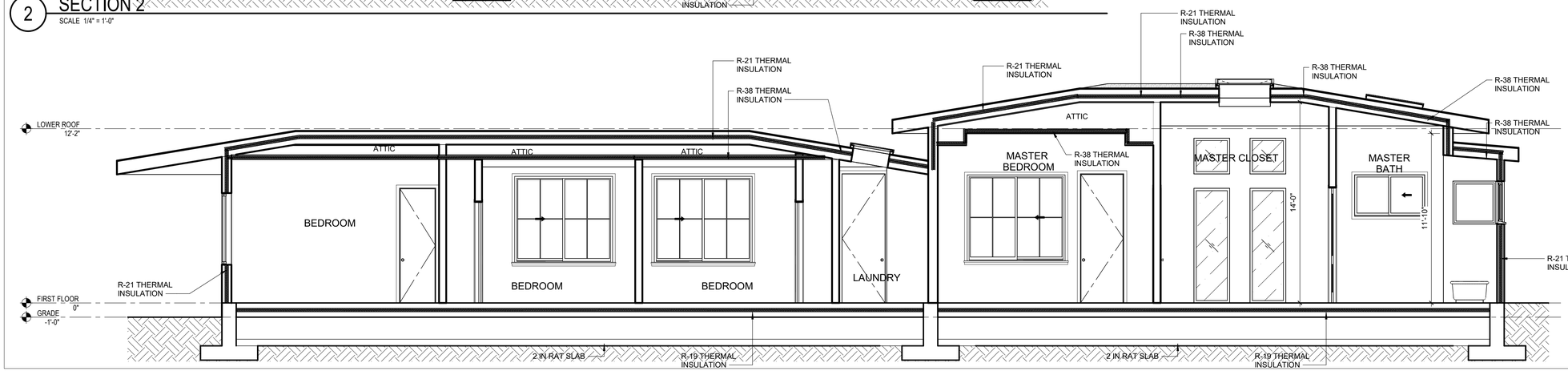
SHEET
A-202



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



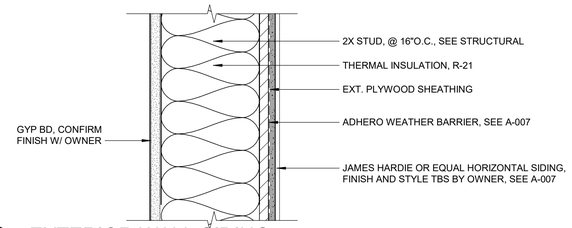
2 SECTION 2
SCALE 1/4" = 1'-0"



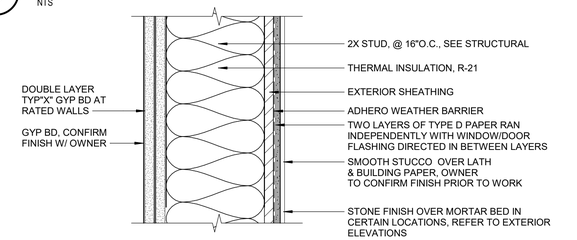
3 SECTION 3
SCALE 1/4" = 1'-0"

SHEET KEYNOTES

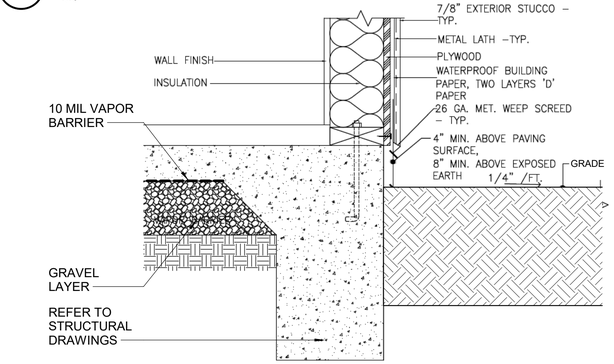
43 FURNACE AND ERV SYSTEM PER TITLE 24 SPECIFICATIONS. FIELD VEIRFY CONNECTIONS AND CUTING IN FIELD



6 EXTERIOR WALL SIDING
NTS



5 EXTERIOR WALL STUCCO & STONE
NTS



4 WEEP CREED DETAIL1
NTS

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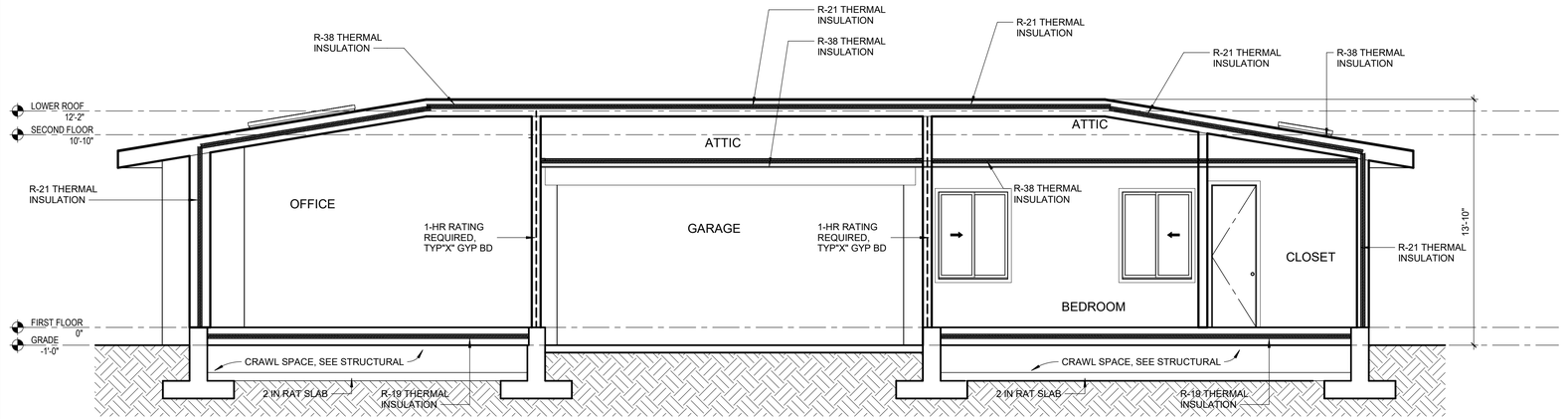
CLIENT
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ISSUED

MARK	DATE	DESCRIPTION

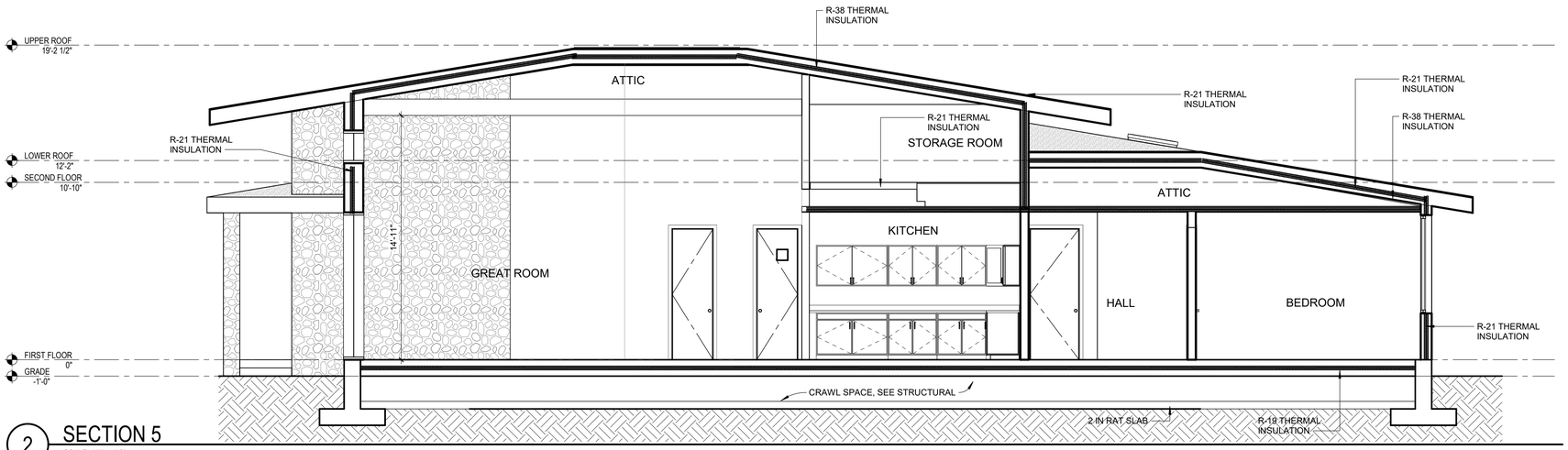
TITLE
BUILDING SECTIONS

SHEET
A-500



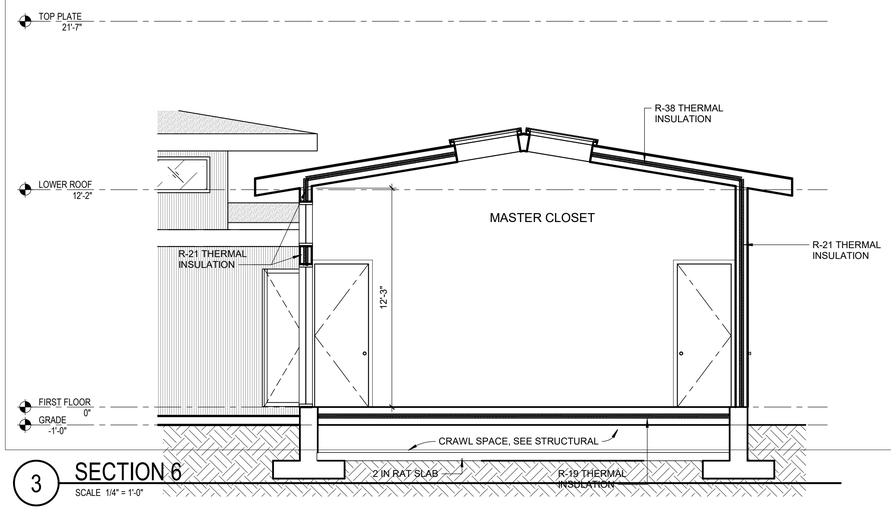
1 SECTION 4

SCALE 1/4" = 1'-0"



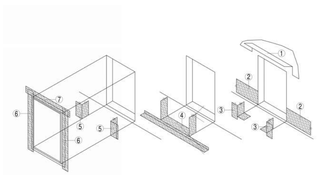
2 SECTION 5

SCALE 1/4" = 1'-0"



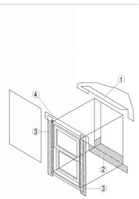
3 SECTION 6

SCALE 1/4" = 1'-0"



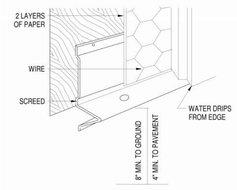
1. CUT, FOLD UP AND TEMPORARILY SECURE BUILDING PAPER HOUSEWRAP OR FELT (WHERE IT OCCURS)
2. APPLY FLEXIBLE FLASHING STRIP TO EXTERIOR WALL AS SHOWN. (SIZE STRIP TO RUN ENTIRE LENGTH OF DECK/SLAB
3. APPLY FLEXIBLE FLASHING STRIPS (BITUTHENE OR EQUAL) AT BOTTOM OF JAMB OPENINGS BY FIRST FOLDING STRIPS IN HALF BOTH DIRECTIONS. THEN SLICING ENDS UP TO HORIZONTAL FOLDS. WHEN SIZING STRIPS, ALLOW FOR A 6" MIN. EXTENSION FROM BOTTOM OF THRESHOLD ETC. APPLY STRIP AT INSIDE OF JAMBS FIRST. THEN WRAP DOWN AND AROUND AS SHOWN.
4. APPLY FLEXIBLE FLASHING STRIP (BITUTHENE OR EQUAL) TO THRESHOLD BY FIRST FOLDING STRIP INTO THIRDS TO MATCH STEP AT THRESHOLD ETC. NEXT, SLICE STRIP AT UPPER FOLD. ALLOW FOR A MINIMUM 3" OVERLAP PAST ALREADY APPLIED FLASHING AT JAMB. SIZE STRIP TO RUN ENTIRE LENGTH OF DECK/SLAB.
5. APPLY FLEXIBLE FLASHING STRIPS (BITUTHENE OR EQUAL) TO INSIDE JAMS AS SHOWN. ALLOW 3" MIN. LAP PAST ALREADY APPLIED FLASHING AT JAMBS.
6. APPLY FLEXIBLE FLASHING (BITUTHENE OR EQUAL) TO EXTERIOR JAMB OPENINGS OVER JAMB FLANGES AS SHOWN. ALLOW FOR 4" MIN. OVERLAP PAST SILL FLANGE WHEN SIZING STRIP.
7. APPLY FLEXIBLE FLASHING STRIP (BITUTHENE OR EQUAL) TO EXTERIOR WINDOW HEAD FLANGE AS SHOWN. WHEN SIZING STRIP, ALLOW FOR A MIN. OVERLAP OF 3" PAST EACH JAMB FLASHING. UNFOLD BUILDING PAPER, HOUSEWRAP OR FELT OVER FLASHING AND TAPE EDGES.

TYPICAL DOOR OPENING AT SIDING OR STUCCO



1. CUT, FOLD UP AND TEMPORARILY SECURE BUILDING PAPER HOUSEWRAP OR FELT (WHERE IT OCCURS)
2. APPLY FLEXIBLE FLASHING STRIP (BITUTHENE OR EQUAL) TO OPENING AT WINDOW SILL BY FIRST FOLDING STRIP IN HALF LENGTHWISE, THEN SLIDING ENDS ALONG FOLD. ALLOW FOR 3" MIN. OVERLAP PAST JAMB WHEN SIZING STRIP. APPLY FLASHING OVER BOTTOM WINDOW SILL AT WALL THEN FOLD INTO WINDOW OPENING AS SHOWN.
3. APPLY FLEXIBLE FLASHING STRIP (BITUTHENE OR EQUAL) TO EXTERIOR JAMB OPENINGS OVER JAMB FLANGES AS SHOWN. ALLOW FOR MIN. 3" OVERLAP PAST HEAD FLANGE AND MIN. 3" OVERLAP PAST SILL FLANGE WHEN SIZING STRIP.
4. APPLY FLEXIBLE FLASHING STRIP (BITUTHENE OR EQUAL) TO EXTERIOR WINDOW HEAD OVER HEAD FLANGE AS SHOWN. WHEN SIZING STRIP, ALLOW FOR MIN. OVERLAP OF 3" PAST EACH JAMB FLASHING. UNFOLD BUILDING PAPER, HOUSE WRAP OR FELT OVER FLASHING AND TAPE EDGES.

TYPICAL WINDOW OPENING AT SIDING OR STUCCO



X FLASHING

4 FLASHING REQUIREMENTS

NTS

SHEET KEYNOTES

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CLIENT

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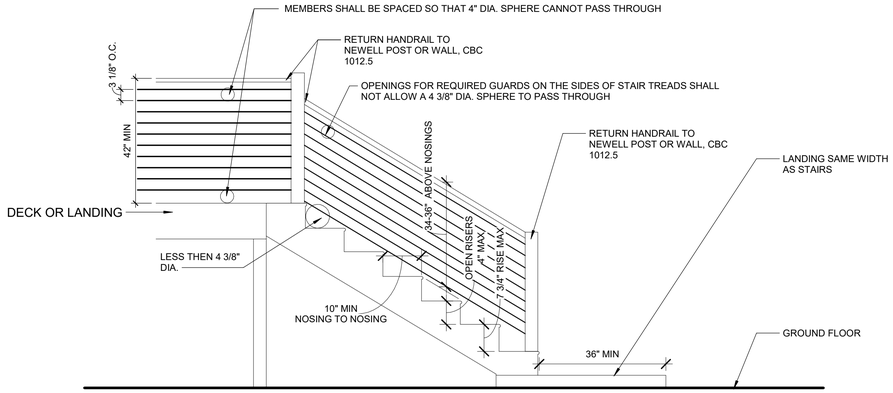
MARK	DATE	DESCRIPTION

TITLE

BUILDING SECTIONS

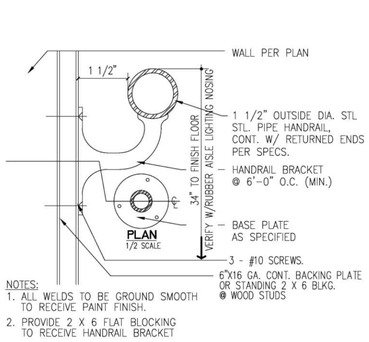
SHEET

A-501



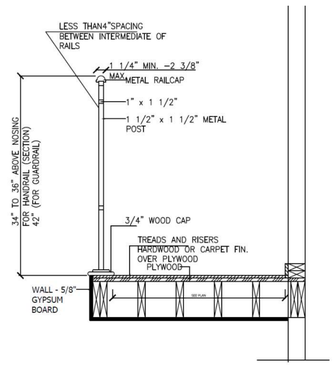
STAIRWAY NOTES:
1. STAIRWAYS SHALL BE NOT LESS THAN 36" IN WIDTH
2. STAIRWAYS RISES SHALL BE NOT GREATER THAN 7 3/4"
3. STAIRWAY TREADS SHALL HAVE A MINIMUM RUN OF 10"
4. THE LENGTH OF RUN AND THE HEIGHT OF RISER SHALL NOT VARY MORE THAN 3/8" IN THE ENTIRE RUN OF THE STAIR
5. STAIRS ARE REQ'D TO BE ILLUMINATED
6. OPEN RISERS PERMITTED IF OPENING IS LESS THAN 4"
7. A NOSING NOT LESS THAN 3/4" BUT NOT MORE THAN 1 1/4" SHALL BE PROVIDED ON STAIRWAYS WITH SOLID RISERS, AND LESS THAN 11"
8. 2x12 D.F NO. 1 STRINGER, REFER TO STURCTURAL FOR ADDITIONAL DETAILS

1 STAIR REQUIREMENTS DIAGRAM1
NTS

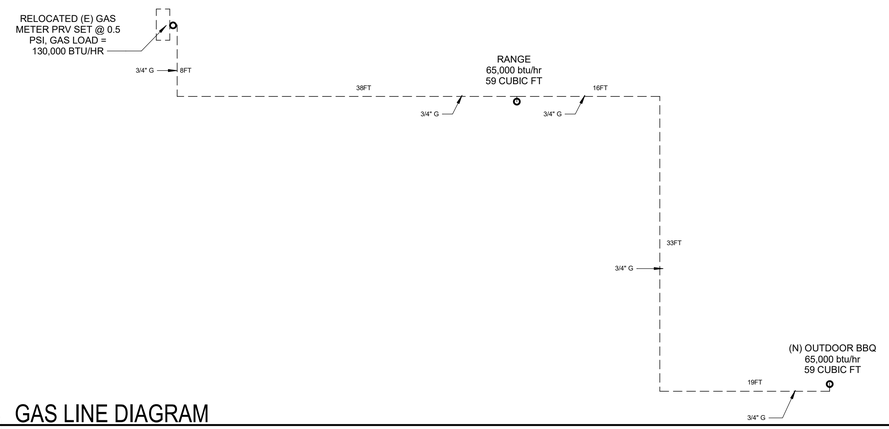


NOTES:
1. ALL WELDS TO BE GROUND SMOOTH TO RECEIVE PAINT FINISH.
2. PROVIDE 2 X 6 FLAT BLOCKING TO RECEIVE HANDRAIL BRACKET

4 TYPICAL HANDRAIL DETAIL
NTS



3 TYPICAL GUARDRAIL DETAIL
NTS



2 GAS LINE DIAGRAM
NTS

TABLE 1215.2(1)
SCHEDULE 40 METALLIC PIPE (NFPA 54 TABLE 6.2(b))[1, 2]

GAS:	NATURAL
INLET PRESSURE:	LESS THAN 2 psi
PRESSURE DROP:	0.5 in. w.c.
SPECIFIC GRAVITY:	0.60

PIPE SIZE (inch)												
NOMINAL:	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12
ACTUAL ID:	0.622	0.824	1.049	1.380	1.610	2.067	2.469	3.068	4.026	5.047	6.065	7.981	10.020	11.938
LENGTH (feet)	CAPACITY IN CUBIC FEET OF GAS PER HOUR													
10	172	360	678	1390	2090	4020	6400	11 300	23 100	41 800	67 600	139 000	252 000	399 000
20	118	247	466	957	1430	2760	4400	7780	15 900	28 700	46 500	95 600	173 000	275 000
30	95	199	374	768	1150	2220	3530	6250	12 700	23 000	37 300	76 700	139 000	220 000
40	81	170	320	657	985	1900	3020	5350	10 900	19 700	31 900	65 600	119 000	189 000
50	72	151	284	583	873	1680	2680	4740	9660	17 500	28 300	58 200	106 000	167 000
60	65	137	257	528	791	1520	2430	4290	8760	15 800	25 600	52 700	95 700	152 000
70	60	126	237	486	728	1400	2230	3950	8060	14 600	23 600	48 500	88 100	139 000
80	56	117	220	452	677	1300	2080	3670	7490	13 600	22 000	45 100	81 900	130 000
90	52	110	207	424	635	1220	1950	3450	7030	12 700	20 600	42 300	76 800	122 000
100	50	104	195	402	600	1160	1840	3260	6640	12 000	19 500	40 000	72 600	115 000
125	44	92	173	355	532	1020	1650	2890	5900	10 600	17 200	35 400	64 300	102 000
150	40	83	157	322	482	928	1480	2610	5350	9650	15 600	32 100	58 300	92 300
175	37	77	144	296	445	854	1360	2410	4915	8880	14 400	29 500	53 600	84 900
200	34	71	134	275	412	794	1270	2240	4565	8240	13 400	27 500	49 900	79 000

GAS NOTES:
GAS SERVICE FROM (E) GAS METER SERVING TO APPLIANCES FROM GAS METER TO APPLIANCE SHUT-OFF VALVE:
1. SIZING BASED ON CORRUGATED STAINLESS STEEL TUBING CPC 2019 TABLE 1215.1.3
2.SYSTEM PRESSURE: LESS THAN 2 PSI.
3.MAXIMUM LENGTH OF RUN: NOT TO EXCEED 150 FEET OF LENGTH FROM GAS METER TO FURNACE IN THE ATTIC. CONTRACTOR TO FIELD VERIFY THE EXACT LENGTH OF PIPE RUN UP TO FURNACE AND IF FOUND THE MAXIMUM TOTAL DEVELOPED LENGTH INCLUDING FITTING PRESSURE LOSSES EXCEEDS 150 FEET, NOTIFY ENGINEER.
4.MAXIMUM PRESSURE DROP: NOT TO EXCEED 0.5 INCHES OF WC.
NOTE:
1. PROVIDE REDUCER FOR EQUIPMENT CONNECTION AS REQUIRED.
2. GAS PIPING EXPOSED TO WEATHER CONDITION (FREEZING) SHALL BE INSTALLED TO COMPLY CPC 1210.1.4

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TREVAR & CAMILA SHYSHKA

ISSUED

MARK	DATE	DESCRIPTION

TITLE
TYPICAL DETAILS

SHEET
A-502

DOOR SCHEDULE

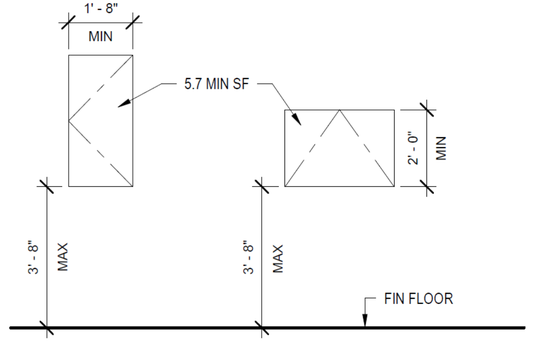
DOOR NO	WIDTH	FRAME MATERIAL	HEIGHT	COMMENTS
001	5'-8"	WOOD	9'-8"	ENTRY PIVOT DOOR, FINISH AND STYLE TBS BY OWNER
002	6'-0"	ALUM	7'-0"	DOUBLE SWING DOOR, FINISH AND STYLE TBS BY OWNER. TEMPERED GLASS DOOR
003	9'-8"	ALUM	8'-0"	BI-FOLD DOOR, FINISH AND STYLE TBS BY OWNER. TEMPERED GLASS REQ'D
004	2'-6"	WOOD	8'-0"	SWING DOOR, FINISH AND STYLE TBS BY OWNER
005	3'-0"	WOOD	8'-0"	SWING DOOR, FINISH AND STYLE TBS BY OWNER. 20 MIN FIRE RATING REQ'D
007	3'-0"	WOOD	8'-0"	SWING DOOR, FINISH AND STYLE TBS BY OWNER
008	2'-6"	WOOD	8'-0"	SWING DOOR, FINISH AND STYLE TBS BY OWNER
009	2'-6"	WOOD	8'-0"	SWING DOOR, FINISH AND STYLE TBS BY OWNER
010	3'-0"	WOOD	8'-0"	SWING DOOR, FINISH AND STYLE TBS BY OWNER
011	7'-0"		7'-0"	SLIDING CLOSET DOOR, FINISH AND STYLE TBS BY OWNER
012	2'-8"	WOOD	8'-0"	SWING DOOR, FINISH AND STYLE TBS BY OWNER
013	3'-0"	WOOD	8'-0"	SWING DOOR, FINISH AND STYLE TBS BY OWNER
014	7'-0"		7'-0"	SLIDING CLOSET DOOR, FINISH AND STYLE TBS BY OWNER
015	2'-8"	WOOD	8'-0"	SWING DOOR, FINISH AND STYLE TBS BY OWNER
016	3'-0"	WOOD	8'-0"	SWING DOOR, FINISH AND STYLE TBS BY OWNER
017	3'-0"	WOOD	9'-0"	SWING DOOR, FINISH AND STYLE TBS BY OWNER
018	2'-0"	WOOD	9'-0"	SWING DOOR, FINISH AND STYLE TBS BY OWNER
019	3'-0"	WOOD	8'-0"	SWING DOOR, FINISH AND STYLE TBS BY OWNER
020	9'-8"	ALUM	8'-0"	BI-FOLD DOOR, FINISH AND STYLE TBS BY OWNER. TEMPERED GLASS REQ'D
021	3'-0"	WOOD	8'-0"	SWING DOOR, FINISH AND STYLE TBS BY OWNER
022	3'-0"	ALUM	9'-0"	SLIDING PATIO DOOR, FINISH AND STYLE TBS BY OWNER. TEMPERED GLASS DOOR
023	3'-0"	WOOD	8'-0"	SWING DOOR, FINISH AND STYLE TBS BY OWNER
024	6'-6"	WOOD	8'-0"	DOUBLE POCKET DOOR, FINISH AND STYLE TBS BY OWNER
025	2'-6"	WOOD	8'-0"	SWING DOOR, FINISH AND STYLE TBS BY OWNER
026	2'-6"	WOOD	8'-0"	SWING DOOR, FINISH AND STYLE TBS BY OWNER
027	4'-8"	WOOD	8'-0"	DOUBLE SWING DOOR, FINISH AND STYLE TBS BY OWNER
028	2'-6"	WOOD	8'-0"	SWING DOOR, FINISH AND STYLE TBS BY OWNER
029	2'-6"	WOOD	8'-0"	SWING DOOR, FINISH AND STYLE TBS BY OWNER
030	19'-6"	ALUM	9'-0"	GARAGE DOOR AND WIRELESS REMOTE OWNER. FINISH AND STYLE TBS BY OWNER
031	2'-6"		8'-0"	
032	2'-6"		8'-0"	
033				
034	3'-0"		7'-0"	
035	3'-0"		7'-0"	

CONTRACTOR TO CONFIRM ALL DOOR STYLES, FINISHES, AND HARDWARE W/ OWNER. ALL EXTERIOR DOORS SHALL BE SOLID COREWOOD MINIMUM 1-3/8" THICK. SEE GENERAL NOTES 4 FOR MORE REQUIREMENTS.

WINDOW SCHEDULE

MARK	SIZE WIDTH	SIZE HEIGHT	Sill Height	MATL	COMMENTS
01	4'-0"	5'-0"	2'-8"	ALUM	SLIDING WINDOW, FINISH AND STYLE TBS BY OWNER
02	4'-0"	5'-0"	2'-8"	ALUM	SLIDING WINDOW, FINISH AND STYLE TBS BY OWNER
03	5'-0"	2'-0"	7'-0"	ALUM	AWNING WINDOW, FINISH AND STYLE TBS BY OWNER
04	6'-10"	6'-0"	2'-10"	ALUM	SLIDING WINDOW, FINISH AND STYLE TBS BY OWNER
05	6'-10"	6'-0"	2'-10"	ALUM	SLIDING WINDOW, FINISH AND STYLE TBS BY OWNER
06	6'-10"	6'-0"	2'-11 1/4"	ALUM	SLIDING WINDOW, FINISH AND STYLE TBS BY OWNER
07	2'-6"	8'-0"	0"	ALUM	PICTURE WINDOW, FINISH AND STYLE TBS BY OWNER. TEMPERED GLASS REQUIRED
08	2'-6"	8'-0"	0"	ALUM	PICTURE WINDOW, FINISH AND STYLE TBS BY OWNER. TEMPERED GLASS REQUIRED
09	5'-0"	3'-0"	6'-0"	ALUM	SLIDER WINDOW, FINISH AND STYLE TBS BY OWNER. TEMPERED GLASS REQ'D
10	3'-0"	3'-0"	5'-6"	ALUM	PICTURE WINDOW, FINISH AND STYLE TBS BY OWNER. TEMPERED GLASS REQUIRED
11	8'-0"	3'-0"	5'-6"	ALUM	PICTURE WINDOW, FINISH AND STYLE TBS BY OWNER. TEMPERED GLASS REQUIRED
12	3'-0"	3'-0"	5'-6"	ALUM	PICTURE WINDOW, FINISH AND STYLE TBS BY OWNER. TEMPERED GLASS REQUIRED
13	4'-0"	2'-0"	6'-2"	ALUM	AWNING WINDOW, FINISH AND STYLE TBS BY OWNER
14	2'-6"	8'-0"	0"	ALUM	PICTURE WINDOW, FINISH AND STYLE TBS BY OWNER. TEMPERED GLASS REQUIRED
15	2'-6"	8'-0"	0"	ALUM	PICTURE WINDOW, FINISH AND STYLE TBS BY OWNER. TEMPERED GLASS REQUIRED
16	10'-0"	4'-6"	3'-6"	ALUM	BI-FOLD THREE PANEL WINDOW. FINISH AND STYLE TBS BY OWNER, TEMPERED GLASS REQUIRED
17	3'-10"	9'-0"	0"	ALUM	PICTURE WINDOW, FINISH AND STYLE TBS BY OWNER. TEMPERED GLASS REQUIRED
18	3'-10"	9'-0"	0"	ALUM	PICTURE WINDOW, FINISH AND STYLE TBS BY OWNER. TEMPERED GLASS REQUIRED
19	3'-10"	9'-0"	0"	ALUM	PICTURE WINDOW, FINISH AND STYLE TBS BY OWNER. TEMPERED GLASS REQUIRED
20	3'-10"	9'-0"	0"	ALUM	PICTURE WINDOW, FINISH AND STYLE TBS BY OWNER. TEMPERED GLASS REQUIRED
21	3'-10"	2'-0"	12'-0"	ALUM	BI-FOLD THREE PANEL WINDOW. FINISH AND STYLE TBS BY OWNER. TEMPERED GLASS REQUIRED
22	3'-10"	2'-0"	12'-0"	ALUM	PICTURE WINDOW, FINISH AND STYLE TBS BY OWNER. TEMPERED GLASS REQUIRED
23	3'-10"	2'-0"	12'-0"	ALUM	PICTURE WINDOW, FINISH AND STYLE TBS BY OWNER. TEMPERED GLASS REQUIRED
24	5'-10"	2'-0"	12'-0"	ALUM	PICTURE WINDOW, FINISH AND STYLE TBS BY OWNER. TEMPERED GLASS REQUIRED
25	2'-6"	2'-6"	9'-0"	ALUM	PICTURE WINDOW, FINISH AND STYLE TBS BY OWNER. TEMPERED GLASS REQUIRED
26	2'-6"	2'-6"	9'-0"	ALUM	PICTURE WINDOW, FINISH AND STYLE TBS BY OWNER. TEMPERED GLASS REQUIRED
27	2'-6"	2'-6"	9'-0"	ALUM	PICTURE WINDOW, FINISH AND STYLE TBS BY OWNER. TEMPERED GLASS REQUIRED
28	2'-6"	2'-6"	9'-0"	ALUM	PICTURE WINDOW, FINISH AND STYLE TBS BY OWNER. TEMPERED GLASS REQUIRED
29	2'-6"	2'-6"	9'-0"	ALUM	PICTURE WINDOW, FINISH AND STYLE TBS BY OWNER. TEMPERED GLASS REQUIRED
30	3'-10"	2'-0"	12'-0"	ALUM	PICTURE WINDOW, FINISH AND STYLE TBS BY OWNER. TEMPERED GLASS REQUIRED
31	3'-10"	2'-0"	12'-0"	ALUM	PICTURE WINDOW, FINISH AND STYLE TBS BY OWNER. TEMPERED GLASS REQUIRED
32	3'-10"	2'-0"	12'-0"	ALUM	PICTURE WINDOW, FINISH AND STYLE TBS BY OWNER. TEMPERED GLASS REQUIRED
33	3'-10"	2'-0"	12'-0"	ALUM	PICTURE WINDOW, FINISH AND STYLE TBS BY OWNER. TEMPERED GLASS REQUIRED
34	3'-10"	2'-0"	12'-0"	ALUM	PICTURE WINDOW, FINISH AND STYLE TBS BY OWNER. TEMPERED GLASS REQUIRED
35	3'-10"	2'-0"	12'-0"	ALUM	PICTURE WINDOW, FINISH AND STYLE TBS BY OWNER. TEMPERED GLASS REQUIRED
36	6'-0"	5'-0"	4'-0"		

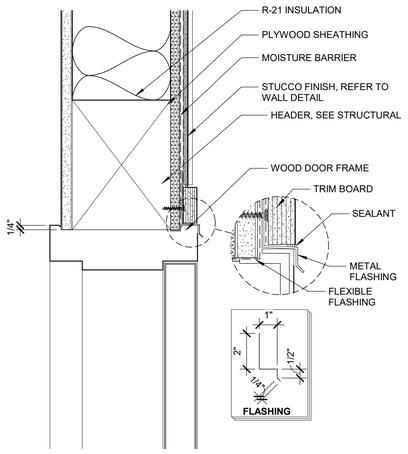
EXTERIOR WINDOWS, GLAZING IN DOORS: DETAIL/SPECIFY ON THE PLANS THAT ALL (INCLUDING GARAGES) GLAZING IS INSULATED GLASS WITH A MINIMUM OF ONE-TEMPERED PANE OF GLASS MEETING THE REQUIREMENTS OF CBC SECTION 2406 OR GLASS BLOCK OR BE 20MINUTE RATED TESTED IN ACCORDANCE WITH NFPA 257OR LISTED UNDER SFM 12-7A-2. EACH WINDOW ON THE PLANS SHALL BE TEMPERED TEMPERED



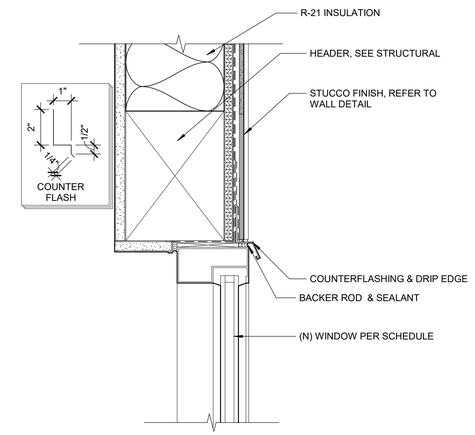
MIN SIZE WINDOW FOR 20" CLEAR WIDTH

MIN SIZE WINDOW FOR 24" CLEAR HEIGHT

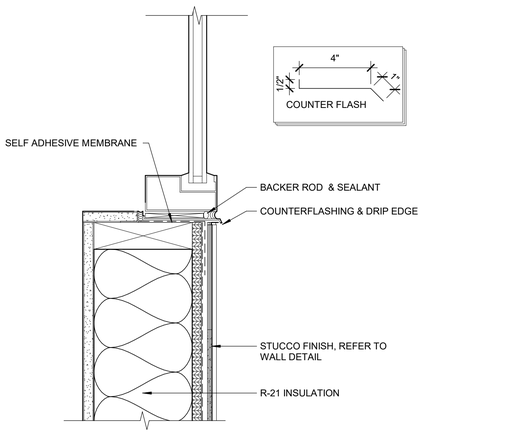
1 EGRESS WINDOW
NTS



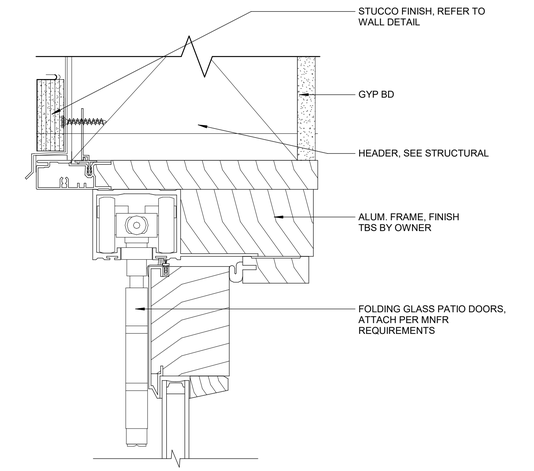
2 EXTERIOR DOOR HEAD DETAIL
SCALE 3" = 1'-0"



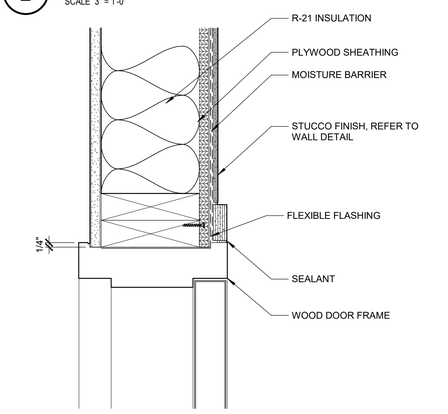
4 EXTERIOR WINDOW HEAD DETAIL
SCALE 3" = 1'-0"



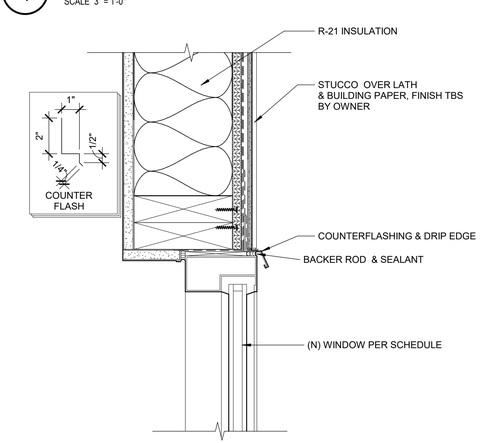
5 EXTERIOR WINDOW SILL DETAIL
SCALE 3" = 1'-0"



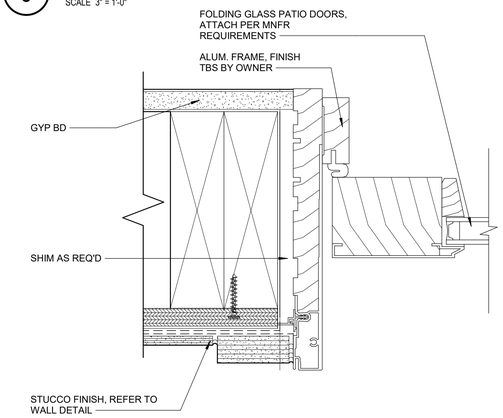
3 EXTERIOR FOLDING DOOR HEAD DETAIL
SCALE 6" = 1'-0"



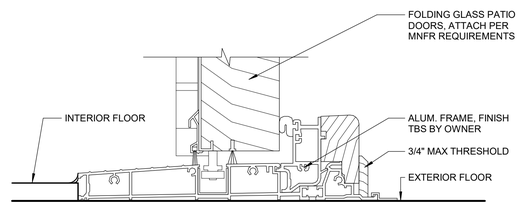
8 EXTERIOR DOOR JAMB DETAIL
SCALE 3" = 1'-0"



9 EXTERIOR WINDOW JAMB DETAIL
SCALE 3" = 1'-0"



6 EXTERIOR FOLDING DOOR JAMB DETAIL
SCALE 6" = 1'-0"



7 EXTERIOR FOLDING DOOR SILL DETAIL
SCALE 6" = 1'-0"

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SEAL

DATE: 11/05/2024

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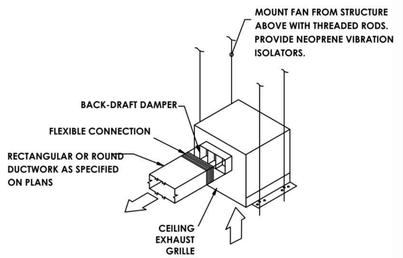
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MARK	DATE	DESCRIPTION

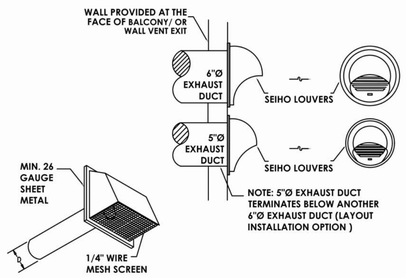
TITLE
DETAILS

SHEET
A-503

MECHANICAL GENERAL DETAILS



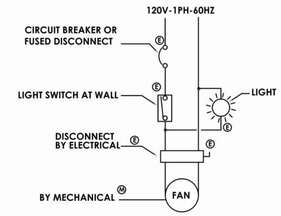
CEILING EXHAUST FAN DETAIL | SCALE NONE | 1



WALL JACK

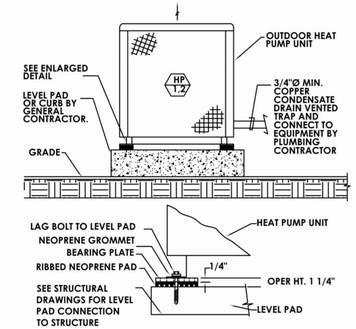
NOTES:
1. TYPICAL FOR EXHAUST TERMINATION
2. SIMILAR FOR DRYER VENT EXCEPT ADDITION
3. TERMINATION MUST BE MINIMUM 3'-0" AWAY WIRE MESH SCREEN. OF A BACK-DRAFT DAMPER & REMOVAL OF FROM ANY OPENINGS OR AIR INTAKE INTO THE BUILDING.

VENT TERMINATION DETAIL | SCALE NONE | 2

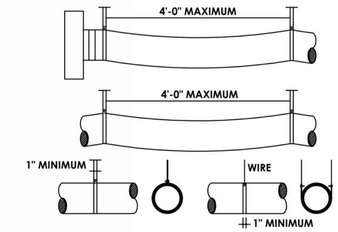


(E) FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
(M) FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR.

TOILET EXHAUST FAN CONNECTIONS | SCALE NONE | 3

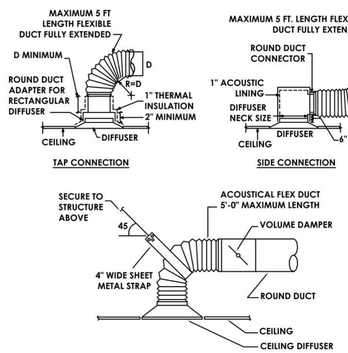


HEAT PUMP UNIT INSTALLATION | SCALE NONE | 4

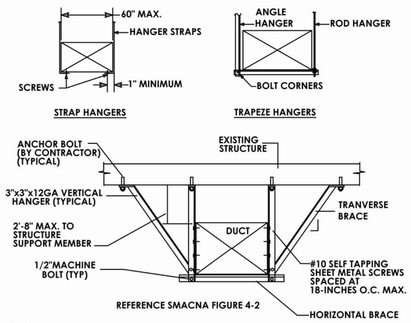


NOTES:
1. DUCT SHOULD EXTEND STRAIGHT FOR SEVERAL INCHES FROM CONNECTION BEFORE BENDING.
2. MAXIMUM SAG 1/2" PER. FOOT OF SUPPORT SPACING.
3. SUPPORT SYSTEM MUST NOT DAMAGE DUCT OR CAUSE OUT OF ROUND SHAPE.
4. SEE MANUFACTURER'S SPECIFICATIONS.

FLEXIBLE DUCT SUPPORT DETAIL | SCALE NONE | 5

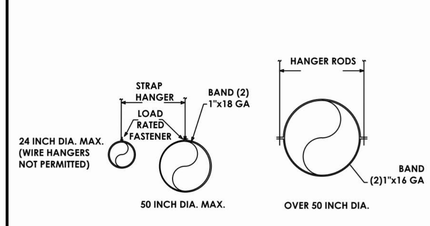


CEILING DIFFUSER CONNECTION DETAIL | SCALE NONE | 6



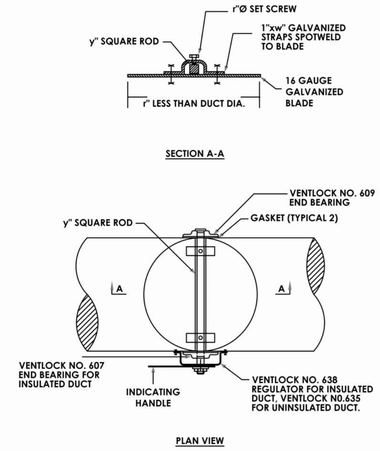
NOTES:
1. FOR HANGERS SIZE AND SPACING, SEE SMACNA HVAC DUCT CONSTRUCTION STANDARDS TABLE 4-1.
2. STANDARDS FIG.4-1 & FIG.4-2. APPROVAL.
3. FOR BRACING AND OTHER SEISMIC REQUIREMENTS, SEE GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS & PLUMBING PIPING SYSTEMS PUBLISHED BY SMACNA AND PPIC AS APPROVED BY OFFICE OF THE TEXAS STATE ARCHITECT 10/31/82.OSHPD PRE APPROVED R0010. ALSO REFER TO NATIONAL UNIFORM SEISMIC INSTALLATION GUIDELINES (NUSIG)

DUCT SUPPORT DETAIL | SCALE NONE | 7

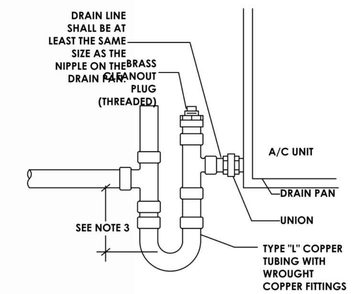


NOTES:
1. FOR HANGER SIZE AND SPACING, SEE SMACNA HVAC DUCT CONSTRUCTION STANDARDS TABLE 4.2.
2. FOR UPPER ATTACHMENT TO BUILDING SEE SMACNA HVAC DUCT CONSTRUCTION STANDARDS FIG. 4-1 AND FIG. 4-2 WITH SPECIFIC BUILDING STRUCTURAL ENGINEER APPROVAL.
3. FOR BRACING AND OTHER SEISMIC REQUIREMENTS SEE GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS PUBLISHED BY SMACNA AND PPIC. ALSO REFER TO NATIONAL UNIFORM SEISMIC INSTALLATION GUIDELINES (NUSIG).

HORIZONTAL ROUND DUCT SUPPORT | SCALE NONE | 8

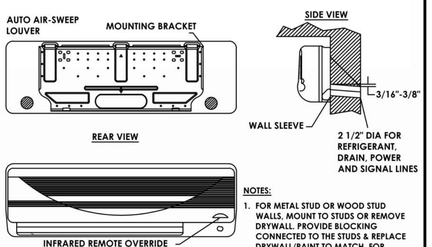


ROUND VOLUME DAMPER | SCALE NONE | 9



NOTES:
1. ALL CONDENSATE DRAIN LINES WITHIN BUILDING SHALL BE INSULATED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 15400, PLUMBING SPECIFICATIONS.
2. SEE DRAWING FOR SIZES.
3. TRAP DEPTH SHALL BE EQUAL TO THE A/C UNIT TOTAL STATIC PRESSURE PLUS 1-INCH BUT NOT LESS THAN 2-INCHES.
4. SOME UNITS MAY NOT REQUIRE A 4 TRAP AS SHOWN. FIELD VERIFY.

CONDENSATE DRAIN DETAIL | SCALE NONE | 10



NOTES:
1. FOR METAL STUD OR WOOD STUD WALLS, MOUNT TO STUDS OR REMOVE DRYWALL. PROVIDE BLOCKING CONNECTED TO THE STUDS & REPLACE DRYWALL/PAINT TO MATCH. FOR WOOD, INSTALL WITH 1/4" WOOD SCREWS 2" LONG. FOR METAL STUDS, INSTALL WITH 1/4" SHEET METAL SCREWS, 1 1/2" LONG.
2. REFRIGERANT, DRAIN, AND POWER CONNECTIONS MAY BE MADE IN UNIT, REAR, BOTTOM, LEFT SIDE OR RIGHT SIDE. INSTALL UNIT AS INSTRUCTED BY MANUFACTURER.
3. FOR ANCHORAGE SEE STRUCTURAL DETAILS.

WALL MOUNTED FAN COIL SUPPORT | SCALE NONE | 11

VENTILATION REQUIREMENTS

VENTILATION REQUIREMENTS FOR MAIN RESIDENCE:
Required O/A = 0.03 x A + 7.5 (Nb. of Bedrooms + 1)

- **FOR FIRST FLOOR:**
- A = 3,950 , #BD.R. = 4
- **Required O/A =** 148

VENTILATION REQUIREMENT TO BE MET BY RUNNING EF-01 & 02 & 03 CONTINUOUSLY WHEN THE FLOOR IS OCCUPIED.

- **FOR SECOND FLOOR:**
- A = 1,166 , #BD.R. = 0
- **Required O/A =** 34.83

VENTILATION REQUIREMENT TO BE MET BY RUNNING EF-05 & 08 & 10 CONTINUOUSLY WHEN THE FLOOR IS OCCUPIED.

DUCT SIZING SCHEDULE

RECTANGULAR DUCTS				ROUND DUCTS			
S.N.	Duct Size	CFM Range	Velocity (FPM)	S.N.	Duct Size	CFM Range	Velocity (FPM)
1	6"x6"	15 to 100	300 to 500	1	4" Dia	15 to 50	300 to 500
2	8"x8"	115 to 200	300 to 500	2	6" Dia	50 to 115	300 to 500
3	10"x8"	150 to 250	300 to 500	3	8" Dia	115 to 200	300 to 500
4	12"x8"	180 to 300	300 to 500	4	10" Dia	200 to 300	300 to 500
5	14"x8"	200 to 350	300 to 500	5	12" Dia	300 to 450	300 to 500
6	16"x8"	240 to 400	300 to 500	6	14" Dia	450 to 600	300 to 500
7	20"x8"	300 x 480	300 to 500	7	16" Dia	600 to 800	300 to 500
8	10"x10"	200 to 300	300 to 500	8	18" Dia	800 to 1000	300 to 500
9	12"x10"	230 to 380	300 to 500	9	20" Dia	1000 to 2000	500 to 800
10	14"x10"	260 to 440	300 to 500	10	22" Dia	1500 to 2400	500 to 800
11	16"x10"	300 to 500	300 to 500	11	24" Dia	1800 to 3000	500 to 800
12	18"x10"	330 to 550	300 to 500	12	26" Dia	2100 to 3400	500 to 800
13	20"x10"	370 to 620	300 to 500	13	28" Dia	2500 to 3800	500 to 800
14	22"x10"	400 to 660	300 to 500	14	30" Dia	2800 to 4600	500 to 800
15	12"x12"	300 to 450	300 to 500				
16	14"x12"	320 to 530	300 to 500				
17	16"x12"	360 to 600	300 to 500				
18	18"x12"	400 to 670	300 to 500				
19	20"x12"	450 to 750	300 to 500				
20	22"x12"	500 to 820	300 to 500				
21	24"x12"	530 to 900	300 to 500				

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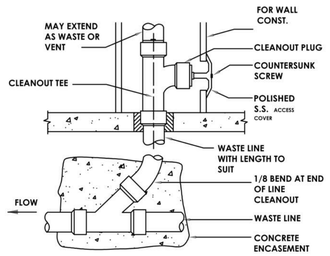
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MARK	DATE	DESCRIPTION

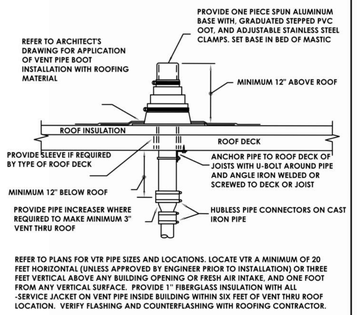
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MECHANICAL DETAILS

SHEET
A-504

PLUMBING GENERAL DETAILS

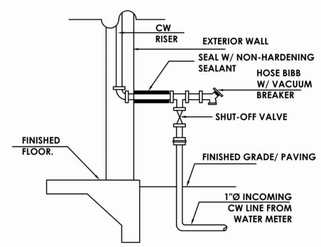


WALL CLEAN-OUT DETAIL — SCALE NONE — 1

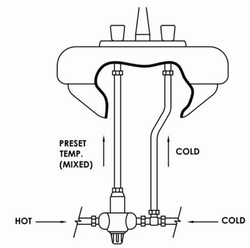


REFER TO PLANS FOR VTR PIPE SIZES AND LOCATIONS. LOCATE VTR A MINIMUM OF 20 FEET HORIZONTAL (UNLESS APPROVED BY ENGINEER PRIOR TO INSTALLATION) OR THREE FEET VERTICAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE, AND ONE FOOT FROM ANY VERTICAL SURFACE. PROVIDE 1" FIBERGLASS INSULATION WITH ALL -SERVICE JACKET ON VENT PIPE INSIDE BUILDING WITHIN SIX FEET OF VENT THRU ROOF LOCATION. VERIFY FLASHING AND COUNTERFLASHING WITH ROOFING CONTRACTOR.

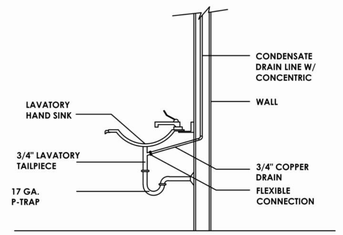
VENT THROUGH ROOF DETAIL — SCALE NONE — 2



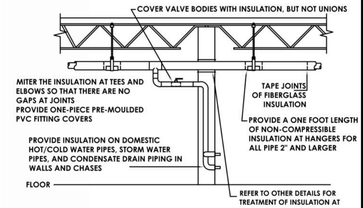
WATER ENTRY DETAIL — SCALE NONE — 3



ANTI-SCALD MIXING VALVE — SCALE NONE — 4



CONDENSATE INTO TAILPIECE DETAIL — SCALE NONE — 5



PROVIDE FIBERGLASS INSULATION WITH ALL-SERVICE JACKET WITH VAPOR BARRIER ON ALL COLD/HOT WATER PIPING AND CONDENSATE DRAIN PIPE REFER TO SPECIFICATIONS FOR FURTHER INFORMATION REGARDING INSULATION INSTALL ALL ITEMS PER SPECIFICATIONS AND MANUFACTURERS INSTRUCTIONS MAINTAIN VAPOR BARRIER ON COLD PIPING BY MEANS OF SEALANT AND TAPE FLAME-SPREAD AND SMOKE-DEVELOPED INDEXES SHALL NOT EXCEED 25/50 SEAL EXPOSED ENDS OF FIBERGLASS INSULATION WITH ADHESIVE MASTIC

PIPE INSULATION DETAIL — SCALE NONE — 6

PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. MAKE PIPE SAME SIZE AS TANK FITTING. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION PROCEDURE. VERIFY PROPER OPERATION WHEN INSTALLED. EXPANSION TANK INSTALLATION SHALL OCCUR ONLY WHEN THERE IS A BACKFLOW PREVENTION DEVICE INSTALLED WITHIN THE TENANT SPACE WATER SYSTEM OR BUILDING WATER SYSTEM.

EXPANSION TANK DETAIL — SCALE NONE — 7

NOTE:
CLEAN-OUT COVER FLUSH WITH TILE OR WITH CONCRETE FLOOR IN AREA FLUSH WITH NO TILE.

FLOOR CLEAN-OUT DETAIL — SCALE NONE — 8

HUB DRAIN DETAIL — SCALE NONE — 9



T&P DRAIN CONNECTION — SCALE NONE — 10

PROVIDE UPPER ATTACHMENT AS REQUIRED FOR CASES NOT SHOWN HERE. DO NOT INSTALL HANGER INSIDE INSULATION OR OTHERWISE PENETRATE VAPOR BARRIER. DO NOT HANG ONE PIPE FROM ANOTHER EXCEPT IN CHASES. TRAPEZE HANGERS MAY BE USED FOR MUL PLE PARALLEL PIPES. HANGER SPACING FOR PIPE SIZE: COPPER: 4"=12'-0"; 3"=11'-0"; "=10'-0"; 2"=9'-0"; 1½"=8'-0"; 1¼"=7'-0"; 1" & ¾"=6'-0"; ½"=5'-0". CAST IRON: 10'-0" AND ONE NEAR ALL JOINTS. STEEL: 4"=14'-0"; 3"=12'-0"; 2½"=11'-0"; 2"=10'-0"; 1½"=9'-0"; 1"=7'-0"; "=6'-0"; ½"=5'-0". LOCATE HANGERS AS CLOSE AS POSSIBLE TO TURNS AND TEES OF PIPE. PROVIDE SUPPLEMENTARY STEEL STRUTS BETWEEN JOISTS IF REQUIRED. LOCATE HANGERS TO TAKE LOAD OFF OF EQUIPMENT CONNECTIONS. ANCHOR WATER PIPE AGAINST SWAYING DUE TO CHANGES IN WATER VELOCITY. PROVIDE SEISMIC BRACING IF/AS REQUIRED BY LOCAL AUTHORITIES. CHAINS OR PERFORATED STRAP IRON OR STEEL IS NOT ACCEPTABLE. REFER TO CODES FOR FURTHER INFORMATION.

PIPE HANGERS DETAIL — SCALE NONE — 11



WATER HEATER SEISMIC SUPPORT DETAIL — SCALE NONE — 12

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LICENSED ARCHITECT ALI JABER C38901 REN 01-31-25 STATE OF CALIFORNIA

SEAL

DATE: 11/05/2024

PROJECT
SHYSHKA RESIDENCE

1285 W. EDMUNDSON
MORGAN HILL, CA 95037

CLIENT
TREVAR & CAMILA SHYSHKA

ISSUED

MARK	DATE	DESCRIPTION

TITLE
PLUMBING DETAILS

SHEET
A-505

GENERAL

A. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE 2022 EDITION OF THE CALIFORNIA BUILDING CODE AND STANDARDS AND ALL PUBLICATIONS NOTED HEREIN.
B. DETAILS SHOWN ON THE STRUCTURAL DRAWINGS ARE TYPICAL AND SIMILAR. DETAILS APPLY TO SIMILAR CONDITIONS. SPECIFIC NOTES AND DETAILS ON THE DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
C. DIMENSIONS SHOWN SHALL TAKE PRECEDENCE OVER SCALE ON PLANS AND DETAILS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.
D. THE REVIEW OF SHOP DRAWINGS BY THE ENGINEER IS FOR GENERAL COMPLIANCE WITH THE DRAWINGS AND SPECIFICATIONS.
E. ALL DETAIL CHANGES DESIRED SHALL BE SUBMITTED TO THE ENGINEER IN WRITING. SHOP DRAWINGS DO NOT CONSTITUTE CHANGES IN WRITING. ALONG WITH A LETTER, THE SHOP DRAWINGS SHALL SHOW ALL PROPOSED CHANGES.
F. COORDINATE STRUCTURAL DRAWINGS WITH EQUIPMENT DRAWINGS FOR CONSTRUCTION DETAILS.
G. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS & SITE CONDITIONS PRIOR TO THE START OF CONSTRUCTION & NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR INCONSISTENCIES THAT ARE FOUND. NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS--DO NOT SCALE DRAWINGS.
H. IF CONTRACTOR FINDS ANY DISCREPANCY IN STRUCTURAL DRAWINGS, CONTRACTOR SHALL NOTIFY EOR OF THE SAME PRIOR TO CONSTRUCTION.

STRUCTURAL DESIGN CRITERIA:

ROOF LOAD: (ROOF TRUSSES)
LIVE LOAD 20 PSF
DEAD LOAD 20 PSF

ROOF LOAD: (ROOF RAFTERS)
LIVE LOAD 20 PSF
DEAD LOAD 15 PSF

FIRST FLOOR LOAD:
LIVE LOAD 40 PSF
DEAD LOAD 15 PSF

DEFLECTION FACTOR L/360 FOR LIVE LOAD
L/240 FOR TOTAL LOAD

WIND VALUES
A.ULTIMATE DESIGN WIND SPEED, VULT AND NOMINAL DESIGN WIND SPEED VASD : 92 MPH
B.RISK CATEGORY : II
C.WIND EXPOSURE : B
D.APPLICABLE INTERNAL PRESSURE COEFFICIENT.:--

LATERAL LOADS

SEISMIC VALUES:
LATITUDE=+37.104918° NORTH, LONGITUDE= -121.663401° WEST
Ss=1.5g S1=0.6g IMPORTANCE FACTOR,I=1.0,
OCCUPANCY CATEGORY II, SITE CLASS D SDs =1.2g SD1 =0.68g
SEISMIC DESIGN CATEGORY (SDC) = D
R =6.5 (LIGHT FRAME BEARING WALLS WITH WOOD PANELS)
Ω_0 = 2.5
REDUNDANCY FACTOR = 1.3
SEISMIC RESPONSE COEFFICIENT: C_S = 0.24 W (LRFD), 0.171 W (ASD)
BASE SHEAR: 32227 LB

FOUNDATION

1. A SOILS REPORT WAS PROVIDED FOR THIS PROJECT BY "SILICON VALLEY SOIL ENGINEERING 1916 O'TOOLE WAY, SAN JOSE" REPORT SV2755, DATED 3/24/24, THEREFORE THE FOUNDATION WILL BE BASED ON RECOMMENDATIONS ON THE PROJECT GEOTECHNICAL ENGINEER.
2. MAXIMUM SOIL PRESSURE: 2,500 PSF FOR DEAD LOAD PLUS LIVE LOADS. THE ALLOWABLE BEARING PRESSURE MAY BE INCREASED BY ONE THIRD WHEN CONSIDERING LOADING OF SHORT DURATION SUCH AS WIND OR SEISMIC FORCES.
3. FOOTING SHALL EXTEND A MINIMUM DEPTH OF 1'-6" BELOW FINISHED GRADE AND 1'-0" INCHES IN WIDTH SHALL BEAR ENTIRELY ON PROPERLY COMPACTED SOILS OR NATIVE SOILS.
4. SPECIAL INSPECTION AND TESTING IS REQUIRED IN ACCORDANCE WITH SECTIONS 1704, 1707 AND 1708 OF THE CALIFORNIA BUILDING CODE AND THE "STATEMENT OF SPECIAL INSPECTIONS" ON THESE CONSTRUCTION DOCUMENTS.
5. ANCHOR BOLTS, DOWELS AND HOLDOWN ANCHORS SHALL BE TIED IN PLACE PRIOR TO FOUNDATION INSPECTION.
6. SLABS ON GRADE THAT RESTRAIN THE BOTTOM OF RETAINING WALLS SHALL BE IN PLACE PRIOR TO BACKFILLING OF THE WALLS.
7. MINIMUM FOOTING REINFORCEMENT SHOULD CONSIST OF A MINIMUM OF (4) #5 REINFORCING BARS TWO INSTALLED NEAR THE TOP AND TWO NEAR THE BOTTOM OF THE FOOTING.

EPOXY ADHESIVES

1. TYPE: SIMPSON SET-3G, ESR-4057 OR APPROVED EQUAL.
2. EPOXY ANCHORED EMBEDMENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND THE REQUIREMENTS OF THE APPLICABLE ICC REPORT.
3. EPOXY ADHESIVE SHALL BE INSTALLED WHILE CONCRETE IS DRY AND ALLOWED TO CURE FULLY PRIOR TO REINTRODUCING WATER TO SYSTEM.
4. EPOXY ANCHOR BOLTS SHALL BE TIGHTENED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

CONCRETE

1. ALL CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH ACI318, "SPECIFICATION FOR STRUCTURAL CONCRETE FOR BUILDINGS" AND CBC CODES.
2. DETAILING OF REINFORCEMENT SHALL BE GOVERNED BY THE "ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURE", UNO.
3. MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS.
FOUNDATIONS - 2,500 PSI, FLOOR SLAB-ON-GRADE - 2,500 PSI WITH FIBER
4. TYPE II CEMENT SHALL BE USED IN CONCRETE FOR SLAB-ON-GRADE.
5. TYPE I CEMENT SHALL BE USED IN ALL OTHER CONCRETE.
6. DESIGN MIX FOR CONCRETE SHALL BE PROPORTIONED TO RESULT IN CONCRETE SLUMP AT THE POINT OF DISCHARGE NOT TO EXCEED 3 INCHES.
7. FLOOR SLAB SURFACE SHALL RECEIVE A STEEL TROWEL FINISH.
8. A WET CURED METHOD SHALL BE USED FOR CURING THE FLOOR SLAB-ON-GRADE WHICH SHALL RECEIVE A SURFACE HARDENER AND DUST PROOFER, SUCH AS "SURFHARD," AS MANUFACTURED BY THE EUCLID CHEMICAL COMPANY, OR APPROVED SUBSTITUTE. THE PRODUCT SHALL BE APPLIED IN STRICT ACCORDANCE WITH THE INSTRUCTIONS OF THE MANUFACTURER.
9. FINISHED CONCRETE WITH SURFACE, WHICH WILL BE EXPOSED TO WEATHER, SHALL BE OF AIR-ENTRAINED TYPE. TOTAL AIR CONTENT SHALL BE 5 PERCENT PLUS OR MINUS 1 PERCENT.
10. REINFORCING STEEL SHALL CONFORM TO ASTM-A615, GRADE 60.
11. REINFORCING BARS IN FOOTING SHALL BE CONTINUOUS AROUND CORNERS.
12. REINFORCING BAR SPLICES SHALL BE CLASS C TENSION LAP SPLICE. HOOKS TO BE ACI STANDARD.
13. CONSTRUCTION JOINTS AND CONTROL JOINTS SHALL BE PROVIDED IN FOUNDATION WORK AND SLABS ON GRADE AS SHOWN ON THE DRAWINGS. ADDITIONAL JOINTS OR CHANGES IN JOINT LOCATIONS MUST BE APPROVED BY THE ENGINEER.

STRUCTURAL WOOD

1. ALL FRAMING LUMBER SHALL BE DOUGLAS FIR-LARCH WITH GRADE AS FOLLOWS, UNLESS OTHERWISE NOTED:
LIGHT FRAMING - "STANDARD" AND "STUD"
POSTS & BEAMS - "NO. 1"
BEARING STUDS & HEADERS - "NO. 2"
JOIST, RAFTERS, PLATES - "NO. 1"
2. SPECIAL INSPECTION AND TESTING IS REQUIRED IN ACCORDANCE WITH SECTIONS 1704, 1707, AND 1708 OF THE CALIFORNIA BUILDING CODE AND THE "STATEMENT OF SPECIAL INSPECTIONS" ON THESE CONSTRUCTION DOCUMENTS.
3. SILL PLATES ON CONCRETE SHALL BE DOUGLAS FIR, PRESSURE TREATED WITH SBX/DOT AND ZINC BORATE AND SHALL HAVE ⅝" DIAMETER x 12" ANCHOR BOLTS AT 4'-0" MAXIMUM, UNLESS OTHERWISE NOTED. UPSET THREADS ARE NOT PERMITTED IN ANCHOR BOLTS. PRESERVATIVE SHALL BE SB4/DOT AND Z1NC BORATE.
4. CUTS AND HOLES IN PRESSURE TREATED LUMBER SHALL BE TREATED PER AWPA M 84.
5. ALL LUMBER WITH A LEAST DIMENSION OF 2" (NOMINAL) SHALL BE STAMPED SURFACE-DRY AND SHALL HAVE A MOISTURE CONTENT WHEN SURFACED AND WHEN INSTALLED OF NOT MORE THAN 19%. LUMBER WITH A LEAST DIMENSION OF 4" (NOMINAL) OR GREATER SHALL BE STAMPED SURFACE-GREEN AND AIR DRIED TO A MOISTURE CONTENT OF NOT MORE THAN 19% PRIOR TO ITS USE IN THE STRUCTURE.
6. ALL STUD WALLS SHOWN ON STRUCTURAL DRAWINGS SHALL HAVE THEIR LOWER PLATES ATTACHED TO WOOD FRAMING BELOW WITH 16d NAILS AT 12" O.C. STAGGERED, OR BOLTED TO CONCRETE WITH ⅝" DIAMETER x 12" HEADED BOLTS WITH 3"x3"x ¼" STEEL PLATE WASHERS AND 7" MINIMUM EMBEDMENT @ 4'-0" MAXIMUM SPACING, UNLESS OTHERWISE NOTED.
7. TOP PLATES OF ALL STUD WALLS SHALL BE DOUBLED, SAME SIZE AS STUDS. LAP PLATES 4'-0" MINIMUM. WITH AT LEAST 12-16d NAILS AT 4" O.C. MAXIMUM, EACH SIDE OF SPLICE.
8. ALL WOOD FRAMING DETAILS NOT SHOWN OTHERWISE SHALL BE CONSTRUCTED TO THE MINIMUM STANDARDS OF THE CALIFORNIA BUILDING CODE (CBC). MINIMUM NAILING SHALL CONFORM TO CBC TABLE 2304.10.2.
9. SOLID BLOCK STUDS AT 10'-0" VERTICAL INTERVALS AND ALSO COMPLY WITH CBC SECTION 2308.5.7 FOR BRIDGING.
10. PLACE 2x SOLID BLOCKING BETWEEN ALL JOISTS AND RAFTERS AT SUPPORTS AND UNDER ALL PARTITIONS.
11. ROOF JOISTS OR RAFTERS OF MORE THAN 8" DEPTH AND FLOOR JOISTS OF MORE THAN 4" DEPTH SHALL BE PROVIDED WITH BRIDGING TO DISTRIBUTE SUPERIMPOSED LOADS. FLOOR JOISTS SHALL BE BRIDGED EVERY 8'-0", ROOF JOISTS OR RAFTERS EVERY 10'-0" BY SOLID BLOCKING 2" THICK AND THE FULL DEPTH OF THE JOIST OR RAFTER, OR NAILED METAL CROSS BRIDGING OF EQUAL STRENGTH. WHERE CROSS BRIDGING IS USED, THE LOWER ENDS OF SUCH CROSS BRIDGING SHALL BE DRIVEN UP AND NAILED AFTER THE FLOOR, SUBFLOOR, OR ROOF HAS BEEN NAILED.
12. BOLTS SHALL HAVE 7 DIAMETER MINIMUM END DISTANCE AND 4 DIAMETER MINIMUM EDGE DISTANCE.
13. ALL BOLTS HEADS AND NUTS BEARING ON WOOD SHALL BE FITTED WITH STANDARD CUT WASHERS. BOLT HOLES IN WOOD SHALL BE BORED WITH A BIT 1/32" TO 1/16" LARGER THAN THE NOMINAL BOLT DIAMETER.
14. STEEL FRAMING CONNECTORS SHALL BE MANUFACTURED BY THE "SIMPSON STRONG-TIE COMPANY, INC.", CATALOG # C-C-2021.
15. PLYWOOD FLOOR SHEATHING SHALL BE GLUED TO ALL FRAMING MEMBERS WITH AN A.P.A. APPROVED ADHESIVE.
16. WHERE 20d NAILS ARE USED, NAILS SHALL BE PLACED IN PRE-DRILLED HOLES. PILOT HOLES SHALL HAVE A DIAMETER OF APPROXIMATELY 90% OF NAIL SHANK DIAMETER.
17. NAILS CONNECTED TO PRESSURE TREATED MATERIAL OR FIRE RETARDANT WOOD, SUCH AS PLYWOOD SILL NAILING STUD NAILING, ETC. AND NAILS EXPOSED TO THE EXTERIOR SHALL BE CORROSION RESISTANT AND SHALL HAVE A HOT-DIPPED ZINC GALVANIZED COATING OF NOT LESS THAN 1.0 OUNCES OF ZINC PER SQUARE FOOT OR SHALL BE FABRICATED OF STAINLESS STEEL. THE PRESSURE TREATMENT CHEMICALS SHALL BE COMPATIBLE WITH THE HOT-DIPPED GALVANIZED OR STAINLESS STEEL NAILS. ANCHOR BOLTS AND PLATE WASHERS MAY BE OF PLAIN CARBON STEEL IN SBX/DOT AND ZINC BORATE PERSERVATIVE-TREATED WOOD IN DRY, INTERIOR ENVIRONMENT. FASTENERS OTHER THAN NAILS, TIMBER RIVETS, WOOD SCREWS, AND LAG SCREWS MAY BE MECHANICALLY DEPOSITED ZINC-COATED STEEL.
18. UNLESS OTHERWISE NOTED ON THE PLANS, ROOF & FLOOR SHEATHING SHALL BE LAID UP WITH GRAIN PERPENDICULAR TO SUPPORTS AND NAILED WITH 10d NAILS @ 6" O.C. TO FRAMED PANEL EDGES AND OVER STUD WALLS SHOWN ON PLANS, AND AT 12" O.C. TO INTERMEDIATE SUPPORTS. FLOOR SHEATHING EDGES SHALL HAVE APPROVED TONGUE-AND-GROOVE JOINTS OR SHALL BE SUPPORTED WITH SOLID BLOCKING. TOE NAIL BLOCKING TO SUPPORTS WITH 16d NAILS, UNLESS OTHERWISE NOTED.
19. SHEATHING NAILS SHALL BE DRIVEN SO THEIR HEAD IS FLUSH WITH, BUT SHALL NOT FRACTURE, THE SURFACE OF THE SHEATHING.
20. CUTTING, NOTCHING, OR DRILLING OF JOISTS OR BEAMS SHALL BE PERMITTED ONLY AS DETAILED OR SPECIFICALLY APPROVED BY THE ENGINEER AND/OR PER CBC SECTION 2308.5.9 OR 2308.5.10 OR 2308.7.4.
21. PROVIDE BACKING AS REQUIRED FOR HANDRAILS, DRYWALL, ETC. AS REQUIRED BY OTHER TRADES. SEE ARCHITECTURAL DRAWINGS.
22. AT PRE-BORED HOLES FOR LAG SCREWS, THE CLEARANCE HOLE FOR THE SHANK, SHOULD HAVE THE SAME DIAMETER AS THE SHANK AND THE SAME DEPTH OF PENETRATION AS THE LENGTH OF UNTHREADED SHANK. THE LEAD HOLE FOR THREADED PORTION SHALL HAVE A DIAMETER EQUAL TO 40% TO 70% OF THE SHANK DIAMETER. THE HIGHER PERCENTAGE APPLIES TO LAG SCREWS OF LARGER DIAMETERS.
23. ALL HEADERS AND BEAMS SHALL BEAR OVER THE POST/JACK STUDS U.N.O.

TYPICAL NAILING SCHEDULE PER CBC TABLE NO. 2304.10.2

DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION
ROOF		
1. BLOCKING BETWEEN CEILING JOISTS, RAFTERS OR TRUSSES TO TOP PLATE OR OTHER FRAMING BELOW	3-8d COMMON 3-10d BOX 3-3"x0.131" NAILS	EACH END, TOENAIL
BLOCKING BETWEEN RAFTERS OR TRUSS NOT AT THE WALL TOP PLATE, TO RAFTER OR TRUSS	2-8d COMMON 2-3"x0.131" NAILS	EACH END, TOENAIL
	2-16d COMMON 3-3"x0.131" NAILS	END NAIL
FLAT BLOCKING TO TRUSS AND WEB FILLER	16d COMMON @ 6" O.C. 3-3"x0.131" NAILS @ 6" O.C.	FACE NAIL
2. CEILING JOISTS TO TOP PLATE	3-8d COMMON 3-10d BOX 3-3"x0.131" NAILS	EACH JOIST, TOENAIL
3. CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS (NO THRUST) (SEE SECTION 2308.7.3.1, TABLE 2308.7.3.1)	3-16d COMMON 4-10d BOX 4-3"x0.131" NAILS	FACE NAIL
4. CEILING JOISTS ATTACHED TO PARALLEL RAFTER (HEEL JOINT) (SEE SECTION 2308.7.3.1, TABLE 2308.7.3.1)	PER TABLE 2308.7.3.1	FACE NAIL
5. COLLAR TIE TO RAFTER	3-10d COMMON 4-10d BOX 4-3"x0.131" NAILS	FACE NAIL
6. RAFTER OR ROOF TRUSS TO TOP PLATE (SEE SECTION 2308.7.5, TABLE 2308.7.5)	3-10d COMMON 3-16d BOX, 4-10d BOX 4-3"x0.131" NAILS	TOENAIL[a]
7. ROOF RAFTERS TO RIDGE VALLEY OR HIP RAFTERS; OR ROOF RAFTER TO 2" RIDGE BEAM	2-16d COMMON 3-10d BOX 3-3"x0.131" NAILS	END NAIL
	3-10d COMMON 3-16d BOX, 4-10d BOX 4-3"x0.131" NAILS	TOENAIL

TYPICAL NAILING SCHEDULE PER CBC TABLE NO. 2304.10.2 (CONTD.)

WALL		
8. STUD TO STUD (NOT AT BRACED WALL PANELS)	16d COMMON	24" O.C. FACE NAIL
	10d BOX 3"x0.131" NAILS	16" O.C. FACE NAIL
9. STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS (AT BRACED WALL PANELS)	16d COMMON	16" O.C. FACE NAIL
	16d BOX	12" O.C. FACE NAIL
	3"x0.131" NAILS	12" O.C. FACE NAIL
10. BUILT-UP HEADER (2" TO 2" HEADER)	16d COMMON	16" O.C. EACH EDGE, FACE NAIL
	16d BOX	12" O.C. EACH EDGE, FACE NAIL
11. CONTINUOUS HEADER TO STUD	4-8d COMMON 4-10d BOX	TOENAIL
12. TOP PLATE TO TOP PLATE	16d COMMON	16" O.C. FACE NAIL
	10d BOX 3"x0.131" NAILS	12" O.C. FACE NAIL
13. TOP PLATE TO TOP PLATE, AT END JOINTS	8-16d COMMON 12-10d BOX 12-3"x0.131" NAILS	EACH SIDE OF END JOINT, FACE NAIL (MIN 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)
14. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS)	16d COMMON	16" O.C. FACE NAIL
	16d BOX 3"x0.131" NAILS	12" O.C. FACE NAIL
15. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING AT BRACED WALL PANELS	2-16d COMMON 3-16d BOX 4-3"x0.131" NAILS	16" O.C. FACE NAIL
16. STUD TO TOP OR BOTTOM PLATE	4-8d COMMON 4-10d BOX 4-3"x0.131" NAILS	TOENAIL
	2-16d COMMON 3-10d BOX 3-3"x0.131" NAILS	END NAIL
17. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	2-16d COMMON 3-10d BOX 3-3"x0.131" NAILS	FACE NAIL
18. 1" BRACE TO EACH STUD AND PLATE	2-8d COMMON 2-10d BOX 2-3"x0.131" NAILS	FACE NAIL
19. 1"x6" SHEATHING TO EACH BEARING	2-8d COMMON 2-10d BOX	FACE NAIL
20. 1"x8" AND WIDER SHEATHING TO EACH BEARING	3-8d COMMON 3-10d BOX	FACE NAIL
FLOOR		
21. JOIST TO SILL, TOP PLATE, OR GIRDER	3-8d COMMON 3-10d BOX 3-3"x0.131" NAILS	TOENAIL
22. RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR OTHER FRAMING BELOW	8d COMMON 10d BOX 3"x0.131" NAILS	6" O.C., TOENAIL
23. 1"x6" SUBFLOOR OR LESS TO EACH JOIST	2-8d COMMON 2-10d BOX	FACE NAIL
24. 2" SUBFLOOR TO JOIST OR GIRDER	2-16d COMMON	FACE NAIL
25. 2" PLANKS (PLANK & BEAM - FLOOR & ROOF)	2-16d COMMON	EACH BEARING, FACE NAIL
26. BUILT UP GIRDERS AND BEAMS, 2" LUMBER LAYERS	20d COMMON	32" O.C. FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES
	10d BOX 3"x0.131" NAILS	24" O.C. FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES
	AND: 2-20d COMMON 3-10d BOX 3-3"x0.131" NAILS	ENDS AND AT EACH SPLICE, FACE NAIL
27. LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	3-16d COMMON 4-10d BOX 4-3"x0.131" NAILS	EACH JOIST OR RAFTER, FACE NAIL
28. JOIST TO BAND JOIST OR RIM JOIST	3-16d COMMON 4-10d BOX 4-3"x0.131" NAILS	END NAIL
29. BRIDGING OR BLOCKING TO JOIST, RAFTER OR TRUSS	2-8d COMMON 2-10d BOX 2-3"x0.131" NAILS	EACH END, TOENAIL

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11-04-2024	SUBMISSION
DATE	REVISION
DATE	REVISION
DATE	REVISION

LICENSED PROFESSIONAL ENGINEER
AMARENDRA PRASAD
C 68517
EXP. 09/30/25
CIVIL
STATE OF CALIFORNIA

SHYSHKA RESIDENCE

1285 W EDMUNDSON
MORGAN HILL, CA 95037

Sheet Title:
NOTES

Project No.#:

Sheet:
S0.0

STATEMENT OF SPECIAL INSPECTIONS:

1. WHERE CONTINUOUS SPECIAL INSPECTION IS REQUIRED, THE SPECIAL INSPECTOR SHALL CONTINUOUSLY PROVIDE FULL-TIME VERIFICATION OF THE WORK.
2. WHERE PERIODIC SPECIAL INSPECTION IS REQUIRED, THE SPECIAL INSPECTOR NEED NOT BE CONTINUOUSLY PRESENT DURING THE WORK WHERE PERIODIC INSPECTION IS INDICATED. AS A MINIMUM, PERIODIC SPECIAL INSPECTION SHALL OCCUR DAILY.
3. SPECIAL INSPECTIONS SHALL MEET THE REQUIREMENTS OF THE CBC CHAPTER 17 AND SHALL BE PERFORMED BY A QUALIFIED INSPECTOR OR TESTING AGENCY, RETAINED BY THE OWNER AND APPROVED BY THE BUILDING OFFICIAL TO ACT AS A SPECIAL INSPECTOR. THEY SHALL PERFORM INSPECTIONS PER CBC SECTIONS 1704, 1707, & 1708.
4. THE SPECIAL INSPECTOR SHALL CONTINUOUSLY INSPECT THE INITIAL INSTALLATION OF EACH TYPE AND SIZE OF ADHESIVE ANCHOR BY EACH INSTALLER. SUBSEQUENT INSTALLATIONS OF THE SAME TYPE AND SIZE OF ANCHOR BY THE SAME INSTALLER MAY BE PERFORMED ON A PERIODIC BASIS.

SUMMARY OF SPECIAL INSPECTIONS	
DESCRIPTION OF TYPE OF INSPECTION REQUIRED, LOCATION, REMARKS, ETC.	DESIGN STRENGTHS
STRUCTURAL WOOD. (SEE NOTE S.)	
SIMPSON WOOD PREFABRICATED SHEARWALL	ICC ESR-2652

STATEMENT OF SPECIAL INSPECTIONS NOTES:

A. THE CONSTRUCTION INSPECTIONS LISTED ARE IN ADDITION TO THE CALLED INSPECTIONS REQUIRED BY CBC. THE SPECIAL INSPECTIONS IDENTIFIED ON PLANS ARE, IN ADDITION TO, AND NOT A SUBSTITUTE FOR, THOSE INSPECTIONS REQUIRED TO BE PERFORMED BY A CITY'S BUILDING INSPECTOR. SPECIALLY INSPECTED WORK WHICH IS INSTALLED OR COVERED WITHOUT THE APPROVAL OF THE CITY INSPECTOR IS SUBJECT TO REMOVAL OR EXPOSURE.

B. SPECIAL INSPECTION IS REQUIRED DURING THE PERFORMANCE OF THE WORK PER CBC REFERENCED ABOVE.

C. IT IS THE RESPONSIBILITY OF THE OWNER OR CONTRACTOR TO NOTIFY THE SPECIAL INSPECTOR OR INSPECTION AGENCY AT LEAST TWO WORKING DAYS PRIOR TO PERFORMING ANY WORK THAT REQUIRES SPECIAL INSPECTION. ALL WORK PERFORMED WITHOUT SPECIAL INSPECTION IS SUBJECT TO REMOVAL.

D. A CERTIFICATE OF SATISFACTORY COMPLETION OF WORK REQUIRING SPECIAL INSPECTION MUST BE COMPLETED AND SUBMITTED TO THE FIELD INSPECTION DIVISION.

F. THE SPECIAL INSPECTOR MUST BE CERTIFIED BY THE LOCAL BUILDING JURISDICTION, DEVELOPMENT SERVICES, IN THE CATEGORY OF WORK REQUIRED TO HAVE SPECIAL INSPECTION.

G. AN APPLICATION TO PERFORM OFF-SITE FABRICATION MUST BE SUBMITTED TO THE INSPECTION SERVICES DIVISION FOR APPROVAL PRIOR TO COMMENCEMENT OF FABRICATION.

H. THE CONSTRUCTION MATERIALS TESTING LABORATORY MUST BE APPROVED BY THE LOCAL BUILDING JURISDICTION, DEVELOPMENT SERVICES, FOR TESTING OF MATERIALS, SYSTEMS, COMPONENTS AND, EQUIPMENT.

I. A PROPERTY OWNER'S FINAL REPORT FORM FOR WORK REQUIRED TO HAVE SPECIAL INSPECTIONS, TESTING AND STRUCTURAL OBSERVATIONS MUST BE COMPLETED BY THE PROPERTY OWNER, PROPERTY OWNER'S AGENT OF RECORD, ARCHITECT OF RECORD OR, ENGINEER OF RECORD AND SUBMITTED TO THE INSPECTION SERVICES DIVISION.

J. FABRICATOR MUST BE REGISTERED AND APPROVED BY THE LOCAL BUILDING JURISDICTION, DEVELOPMENT SERVICES FOR THE FABRICATION OF MEMBERS AND ASSEMBLIES ON THE PREMISES OF THE FABRICATOR'S SHOP. FABRICATOR SHALL SUBMIT AN 'APPLICATION TO PERFORM OFF-SITE FABRICATION' TO THE INSPECTION SERVICES DIVISION FOR APPROVAL PRIOR TO COMMENCEMENT OF FABRICATION. FABRICATOR SHALL SUBMIT A 'CERTIFICATE OF COMPLIANCE FOR OFF-SITE FABRICATION' TO THE INSPECTION SERVICES DIVISION PRIOR TO ERECTION OF FABRICATED ITEMS AND ASSEMBLIES.

K. SPECIAL INSPECTION IS REQUIRED FOR FABRICATION OF MEMBERS AND ASSEMBLIES DONE IN A SHOP OF A FABRICATOR WHICH IS NOT APPROVED BY INSPECTION SERVICES. AN APPLICATION TO PERFORM OFF-SITE FABRICATION MUST BE SUBMITTED TO AND APPROVED BY INSPECTION SERVICES. (SECTION 1704.2.5.1 AND BLDG-17-6).

L. SPECIAL INSPECTOR SHALL VERIFY THAT FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL OF THE WORKMANSHIP AND FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. THE SPECIAL INSPECTOR SHALL REVIEW THE PROCEDURES FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENTS FOR FABRICATOR'S SCOPE OF WORK.

M. FABRICATION OF MEMBERS AND ASSEMBLIES DONE IN A FABRICATOR'S SHOP APPROVED BY INSPECTION SERVICES NEED NOT HAVE CONTINUOUS OR PERIODIC SPECIAL INSPECTION. AT COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT THE 'CERTIFICATE OF COMPLIANCE' FORM TO INSPECTION SERVICES. (SECTION 1704.2.5.1 AND BLDG-17-6).

N. STRUCTURAL WOOD: THE FASTENER SPACING OF THE SHEATHING FOR WOOD SHEAR WALLS, SHEAR PANELS AND DIAPHRAGM IS SPECIFIED AT 4 INCHES OR LESS ON CENTER. SPECIFY PERIODIC SPECIAL INSPECTION FOR NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF COMPONENTS WITHIN THE SEISMIC-FORCE-RESISTING SYSTEM INCLUDING WOOD SHEAR WALLS, DIAPHRAGMS, DRAG STRUTS, BRAZCES, SHEAR PANELS, AND HOLD-DOWNS

O. WELDS DONE IN A FABRICATOR'S SHOP, APPROVED BY INSPECTION SERVICES, NEED NOT HAVE CONTINUOUS OR PERIODIC SPECIAL INSPECTION. THE APPROVED FABRICATOR MUST SUBMIT A CERTIFICATE OF COMPLIANCE IN ACCORDANCE WITH CBC SECTION 1704.2.5.1. SPECIAL INSPECTION IS REQUIRED FOR WELDS DONE IN A SHOP WHICH IS NOT AN APPROVED FABRICATOR AND APPLICATION TO PERFORM OFF-SITE FABRICATION MUST BE SUBMITTED TO AND APPROVED BY THE CITY.

P. PROVIDE SPECIAL INSPECTION FOR HIGH-STRENGTH BOLTED CONNECTIONS WITH A325 & A490 BOLTS. INSPECTIONS SHALL BE DONE PER APPROVED NATIONALLY RECOGNIZED STANDARDS AND THE REQUIREMENTS OF CBC SECTION 1705.2.3 WHILE THE WORK IS IN PROGRESS, THE SPECIAL INSPECTOR SHALL DETERMINE THE BOLTS, NUTS, WASHERS AND PAINT, BOLTED PARTS, AND INSTALLATION AND TIGHTENING MEET THE STANDARDS REQUIREMENTS. PERIODIC INSPECTIONS MAY BE PERFORMED FOR "SNUG-TIGHTENED" CONNECTIONS.

Q. THE SPECIAL INSPECTOR FOR HIGH-STRENGTH BOLTED CONNECTIONS SHALL OBSERVE THE CALIBRATION PROCEDURES WHEN SUCH PROCEDURES ARE REQUIRED BY THE PLANS OR SPECIFICATIONS AND SHALL MONITOR THE INSTALLATION OF BOLTS TO DETERMINE THAT ALL PLIES OF CONNECTED MATERIALS HAVE BEEN DRAWN TOGETHER AND THAT THE SELECTED PROCEDURE IS PROPERLY USED TO TIGHTEN ALL BOLTS..

S. STRUCTURAL WOOD: THE FASTENER SPACING OF THE SHEATHING FOR WOOD SHEAR WALLS, SHEAR PANELS AND DIAPHRAGM IS SPECIFIED AT 4 INCHES OR LESS ON CENTER. SPECIFY PERIODIC SPECIAL INSPECTION FOR NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF COMPONENTS WITHIN THE SEISMIC-FORCE-RESISTING SYSTEM INCLUDING WOOD SHEAR WALLS, DIAPHRAGMS, DRAG STRUTS, BRACES, SHEAR PANELS, AND HOLD-DOWNS.

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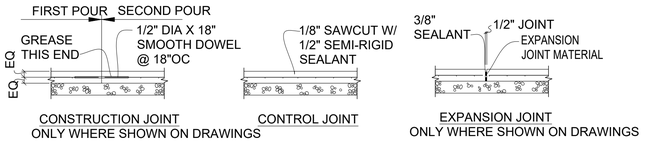
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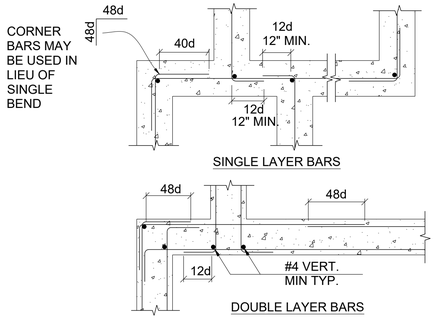
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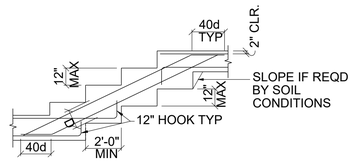
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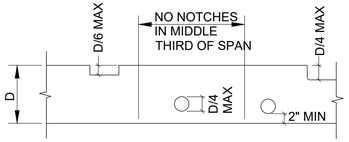
NOTE:
CONSTRUCTION JOINTS & CONTROL JOINT SHALL DIVIDE SLAB INTO AREAS NOT EXCEEDING 225 SQFT WITHOUT REENTRANT CORNERS AND WITH LENGTH TO WIDTH RATIOS NOT EXCEEDING 1 1/2 TO 1. CONTRACTOR SHALL SUBMIT LAYOUT PLAN SHOWING PROPOSED CONTROL AND CONSTRUCTION JOINT LOCATIONS. JOINT SPACING SHALL NOT EXCEED 20 FEET IN EITHER DIRECTION. SEMI-RIGID SEALANT TO BE METZGER/MCGUIRE "MM-80" OR EQUAL.

1 - SLAB JOINTS
NO SCALE





2 - STEPPED FTG
NO SCALE



NOTES:
1. PREDRILL CORNERS OF NOTCHES SO AS NOT TO OVER CUT.
2. NOTCHES ON THE ENDS OF JOISTS AND HEADERS SHALL NOT EXCEED 1/4 OF THE JOIST DEPTH.
3. NOTCHES IN THE BOTTOM OF THE JOISTS ALLOWED ONLY WHERE SPECIFICALLY SHOWN ON THE DRAWINGS.
4. NOTCHES IN THE TOP OF JOISTS SHALL NOT EXCEED 1/4 OF THE DEPTH AND SHALL NOT BE LOCATED IN THE MIDDLE 1/3 OF THE SPAN.
5. HOLES BORED IN THE JOIST SHALL NOT BE WITHIN 2 INCHES OF THE TOP OR BOTTOM AND SHALL NOT HAVE A DIAMETER LARGER THAN 1/4 OF THE DEPTH OF THE JOIST.

3 - CONCRETE CORNERS
NO SCALE

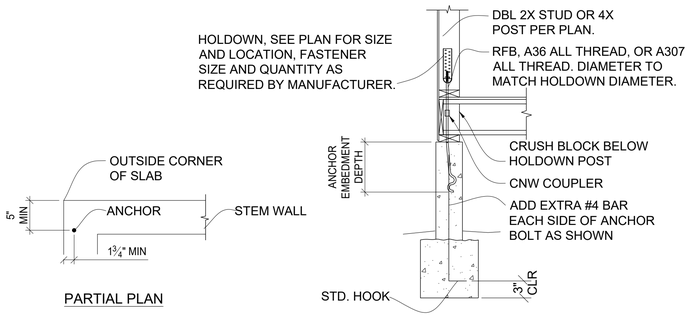
4 - NOTCHES IN WOOD
NO SCALE

SAWN LUMBER ONLY

ANCHORAGE TO CONCRETE STEMWALL			
	ALTERNATE ALL THREAD ANCHOR		
ANCHOR AS NOTED	DIAMETER	MIN. CONCRETE EMBEDMENT	MIN. EPOXY EMBEDMENT
SSTB 14	5/8"	11"	10"
SSTB 16	5/8"	13"	10"
SSTB 20	5/8"	18"	13"
SSTB 24	5/8"	21"	15"
SSTB 28	7/8"	25"	18"
SSTB 34	7/8"	30"	18"
SSTB 36	7/8"	30"	18"
1" ALL THREAD	1"	30"	20"

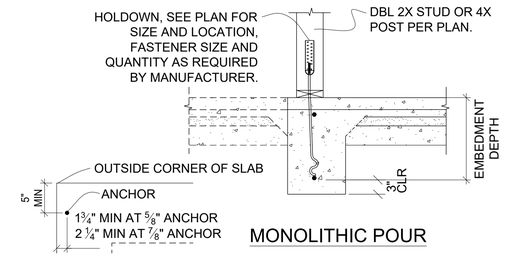
HOLDOWN NOTES:
1. ALL THREAD, ANCHOR BOLTS AND HEX HEAD BOLTS TO BE ASTM A36 OR A307.
2. EPOXY TO BE SIMPSON SET-3G INSTALLED IN ACCORDANCE WITH ICC ESR-4057
3. EXTEND FOOTING DEPTH 12" MIN EACH SIDE OF ANCHOR AS REQUIRED TO PROVIDE 3" CLR COVER.
4. THREADED ROD TERMINATED WITH DBL NUT TIGHTENED EA SIDE OF STD WASHER, HEX HEAD BOLT, OR EPOXY SET ALL THREAD MAY BE USED AS A SUBSTITUTE FOR SSTB ANCHOR.

ANCHORAGE TO CONCRETE SLAB FOUNDATION			
	ALTERNATE ALL THREAD ANCHOR		
ANCHOR AS NOTED	DIAMETER	MIN. CONCRETE EMBEDMENT	MIN. EPOXY EMBEDMENT
SSTB 14	5/8"	10"	10"
SSTB 16	5/8"	12"	12"
SSTB 20	5/8"	12"	12"
SSTB 24	5/8"	12"	12"
SSTB 28	7/8"	14"	17"
SSTB 34	7/8"	14"	17"
SSTB 36	7/8"	14"	17"
1" ALL THREAD	1"	16"	18"



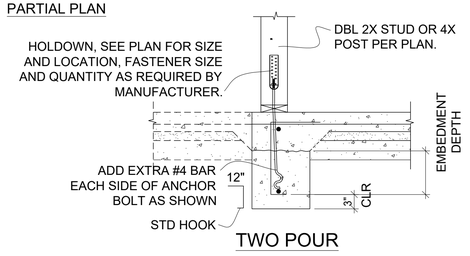
PARTIAL PLAN

HOLDOWN AT STEMWALL



MONOLITHIC POUR

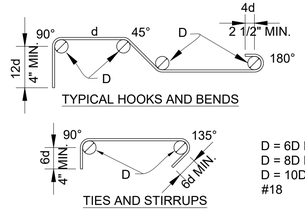
PARTIAL PLAN



TWO POUR

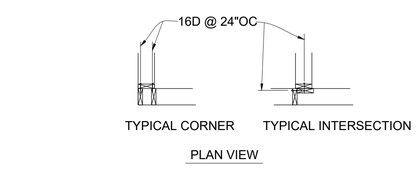
HOLDOWN AT SLAB FOUNDATION

5 - HOLDOWNS
NO SCALE



D = 6D FOR #3 THRU #8
D = 8D FOR #9 THRU #11
D = 10D FOR #14 THRU #18

8 - REBAR BENDS
NO SCALE



9 - CORNER FRAMING
NO SCALE

NOTES: THE NAILING SHOWN ABOVE IS REQUIRED AT ALL EXTERIOR WALLS AND OVER ENTIRE LENGTH OF ANY WALL CONTAINING A SHEARWALL.

6 - TOP PLATE SPLICE
NO SCALE

7 - OVERBUILD FRAMING
NO SCALE

10 - INT. NON-BEARING
NO SCALE

11 - SHEARWALL ELEVATION
NO SCALE

12 - WALL ELEVATION
NO SCALE

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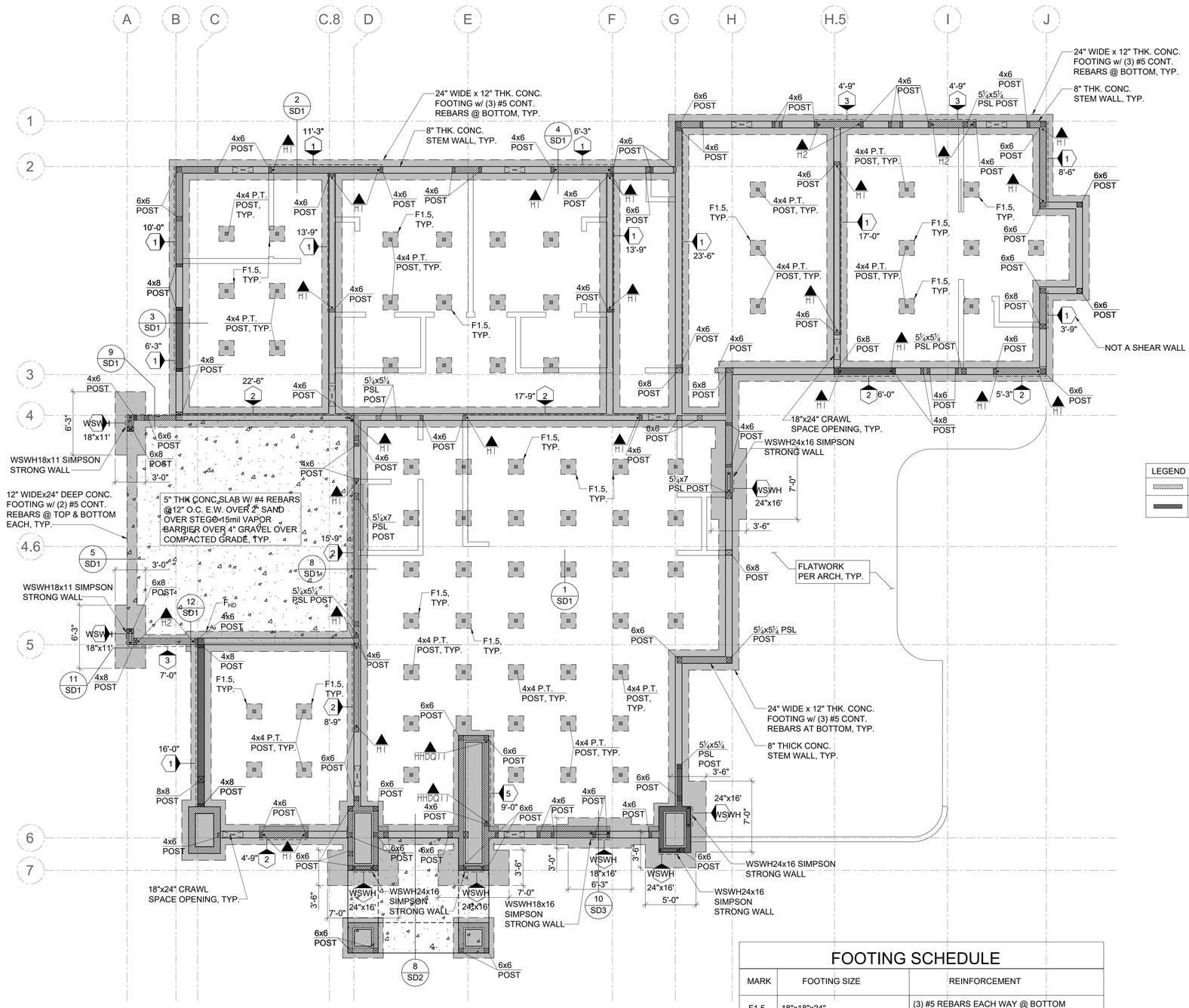
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TYPICAL DETAILS

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FOUNDATION PLAN

SCALE: 3/16" = 1'-0"

LEGEND	
	2x6 EXTERIOR STUD WALL @ 12" O.C.
	2x8 EXTERIOR STUD WALL @ 16" O.C.

SHEARWALL SCHEDULE

TYPE	APA RATED[1] SHEATHING	SILL PLATE (FND.)	ANCHOR[2] BOLT SPACING	FRAMING MEMBER AT PANEL EDGE[3]	SOLE[4] PLATE TO RIM	BLK'G/RIM BD. TO TOP/SILL PLATE
1 260 PLF	½" ONE FACE W/ 8d @ 6" O.C. EDGE 12" O.C. FIELD	2x	⅝" Ø x 10" A.B. @ 32" O.C.	2x	16d @ 6" O.C.	A35 CLIP @ 24" O.C.
2 380 PLF	½" ONE FACE W/ 8d @ 4" O.C. EDGE 12" O.C. FIELD	2x	⅝" Ø x 10" A.B. @ 32" O.C.	2x	16d @ 4" O.C.	A35 CLIP @ 16" O.C.
3 490 PLF	½" ONE FACE W/ 8d @ 3" O.C. EDGE 12" O.C. FIELD	3x	⅝" Ø x 10" A.B. @ 32" O.C.	3x	16d @ 3" O.C.	A35 CLIP @ 16" O.C.
4 640 PLF	½" ONE FACE W/ 8d @ 2" O.C. EDGE 12" O.C. FIELD	3x	⅝" Ø x 10" A.B. @ 24" O.C.	3x	A35 CLIP @ 12" O.C.	A35 CLIP @ 12" O.C.
5 760 PLF	½" BOTH FACE W/ 8d @ 4" O.C. EDGE 12" O.C. FIELD	3x	⅝" Ø x 10" A.B. @ 16" O.C.	3x	A35 CLIP @ 8" O.C.	A35 CLIP @ 8" O.C.
6 980 PLF	½" BOTH FACE W/ 8d @ 3" O.C. EDGE 12" O.C. FIELD	3x	⅝" Ø x 10" A.B. @ 12" O.C.	3x	A35 CLIP @ 6" O.C.	A35 CLIP @ 6" O.C.
7 1280 PLF	½" BOTH FACE W/ 8d @ 2" O.C. EDGE 12" O.C. FIELD	3x	¾" Ø x 10" A.B. @ 16" O.C.	3x	A35 CLIP @ 6" O.C.	A35 CLIP @ 6" O.C.

1. SHEATHING TO BE 4'-0"x8'-0" MIN. EXCEPT AT BOUNDARIES OR AT CHANGES IN FRAMING WHERE MIN. WIDTH IS TO BE 24" (TYP.)
2. MIN. 7" EMBEDMENT INTO CONC., PROVIDE 3"x3"x¼" PLATE WASHER AT EACH BOLT. MIN. (2) BOLTS PER SHEARWALL.
3. 3x FRAMING MEMBERS ARE TO BE SINGLE MEMBERS AND REQUIRE STAGGERED NAILING.
4. SOLE PLATE TO BE 2x U.N.O. SOLE PLATE TO RIM CONNECTION OCCURS ABOVE FOUNDATION PLATE LEVEL AT RAISED FLOOR AND SECOND FLOOR APPLICATIONS.

ANCHOR HOLDOWN SCHEDULE

TYPE	SIMPSON TYPE	MIN. HD[1] POST	HD TO POST CONNECTION	HOLDOWN ANCHOR	MIN. ANCHOR EMBEDMENT[2] "SSTB" ANCHOR	MIN. ANCHOR EMBEDMENT[2] THREADED ROD ANCHOR	MIN. FOOTING SIZE[2,3]
H1 3,075#	HDU2-SDS2.5	DBL 2x STUD	(6) SDS ¼x2½ WOOD SCREWS	⅝"Ø A.B.	"SSTB20" 18"	-	24"x24"x24"
H2 4,565#	HDU4-SDS2.5	DBL 2x STUD	(6) SDS ¼x2½ WOOD SCREWS	⅝"Ø A.B.	"SSTB24" 21"	-	24"x24"x24"
H3 5,645#	HDU5-SDS2.5	DBL 2x STUD	(14) SDS ¼x2½ WOOD SCREWS	¾"Ø A.B.	"SSTB24" 21"	-	24"x24"x24"
H4	HDU8-SDS2.5	(2)2x -5,980#	(20) SDS ¼x2½ WOOD SCREWS	⅞"Ø A.B.	"SSTB34" 30"	-	24"x24"x24"
		4x POST-6,970#		⅞"Ø A.B.			
		(3)2x -7,870#		⅞"Ø A.B.			
H5	HDU11-SDS2.5	6x POST-9,535#	(30) SDS ¼x2½ WOOD SCREWS	1"Ø A.B.	-	1"Ø 9"	30"x30"x24"
		8x POST-11,175#		1"Ø A.B.		1"Ø 10"	

1. CONNECT MULTI 2x HOLDOWN STUDS TOGETHER WITH (24) 16d OVER LENGTH OF STUD.
2. THE A.B. EMBEDMENT AND FOOTING SIZE IS BASED UPON CHAPTER 17, AC318-19.
3. THE ANCHOR BOLT EMBEDMENT NOTED SHOULD BE IN CONTINUOUS FOOTING OR WIDENED FOOTING OF THE SIZE AS NOTED ABOVE UNO AND EXCLUDES EMBEDMENT IN STEM WALL. FOR TURNDOWN SLAB FOOTING, WIDEN THE FOOTING TO THE SIZE AS NOTED ABOVE UNO. THE SIZE OF FOOTING NOTED HERE TO BE COORDINATED WITH SIZE NOTED ON FOOTING PLAN AND PROVIDE LARGER SIZE.

TABLE 1 - ANCHORAGE SELECTION GUIDE FOR HOLDOWNS ATTACHED TO DF/SP LUMBER

HOLDOWN ON DF/SP LUMBER	STEMWALL WIDTH (IN.)	STEMWALL: WIND AND SEISMIC DESIGN CATEGORY A&B: MIDWALL/ CORNER	STEMWALL: WIND AND SEISMIC DESIGN CATEGORY A&B: END WALL	STEMWALL: SEISMIC DESIGN CATEGORY C-F: MIDWALL/ CORNER	STEMWALL: SEISMIC DESIGN CATEGORY C-F: END WALL	SLAB ON GRADE: WIND AND SEISMIC DESIGN CATEGORY A&B: MIDWALL/ CORNER	SLAB ON GRADE: WIND AND SEISMIC DESIGN CATEGORY A&B: GARAGE CURB	SLAB ON GRADE: SEISMIC DESIGN CATEGORY C-F: MIDWALL/ CORNER	SLAB ON GRADE: SEISMIC DESIGN CATEGORY C-F: GARAGE CURB
HDU2	6	SSTB16		SSTB24		SSTB16		SSTB16	SSTB20* (2,960)
HDU4	6	SB5/8X24		SB5/8X24		SSTB16	SB5/8X24	SSTB20	SB5/8X24
HDU5	6	SB5/8X24		SB5/8X24		SSTB20	SB5/8X24	SSTB24	SB5/8X24
HDU8	8	SSTB28	PAB7	SB7/8X24* (7,855)	PAB7	SSTB28		SSTB28	
HDQ8	8	SB7/8X24* (8,980)	PAB7	PAB7	PAB7	SSTB28		SSTB28	PAB7
HDU11	—	PAB8		PAB8		SB1x30		SB1X30	
HHDQ11	—								
HDU14	—	PAB8		PAB8		SB1x30		SB1X30 (See Note 4)	
HHDQ14	—								
LTTP2	6	SSTB16		SSTB16 * (2,550)		SSTB16		SSTB16	
LTTI31	6								
HTT4	6	SSTB24* (4,295)		SB5/8X24		SSTB16	SSTB24* (4,295)	SSTB20	SB5/8X24
HTT5	6	SB5/8X24		SB5/8X24		SSTB16	SB5/8X24	SSTB24	SB5/8X24
HD3B	6	SSTB16		SSTB24		SSTB16		SSTB16	SSTB24
HD5B	6	SB5/8X24		SB5/8X24	SB5/8X24	SSTB16	SB5/8X24	SSTB24	SB5/8X24
HD7B	8	SSTB28* (7,310)		SSTB28* (7,315)	PAB7	SSTB28		SSTB28	
HD9B	—	PAB7		PAB7		SSTB28		SSTB28	PAB7
HD12	—	PAB8		PAB8		SB1X30		SB1X30 (See Note 4)	

FOOTING SCHEDULE

MARK	FOOTING SIZE	REINFORCEMENT
F1.5	18"x18"x24"	(3) #5 REBARS EACH WAY @ BOTTOM
F2	24"x24"x24"	(3) #5 REBARS EACH WAY @ BOTTOM
F3	36"x36"x24"	(6) #5 REBARS EACH WAY @ BOTTOM
F3.5	42"x42"x24"	(6) #5 REBARS EACH WAY @ BOTTOM
F4	48"x48"x24"	(7) #5 REBARS EACH WAY @ BOTTOM
F_{HD}	24"x24"x24"	(3) #5 REBARS EACH WAY @ BOTTOM

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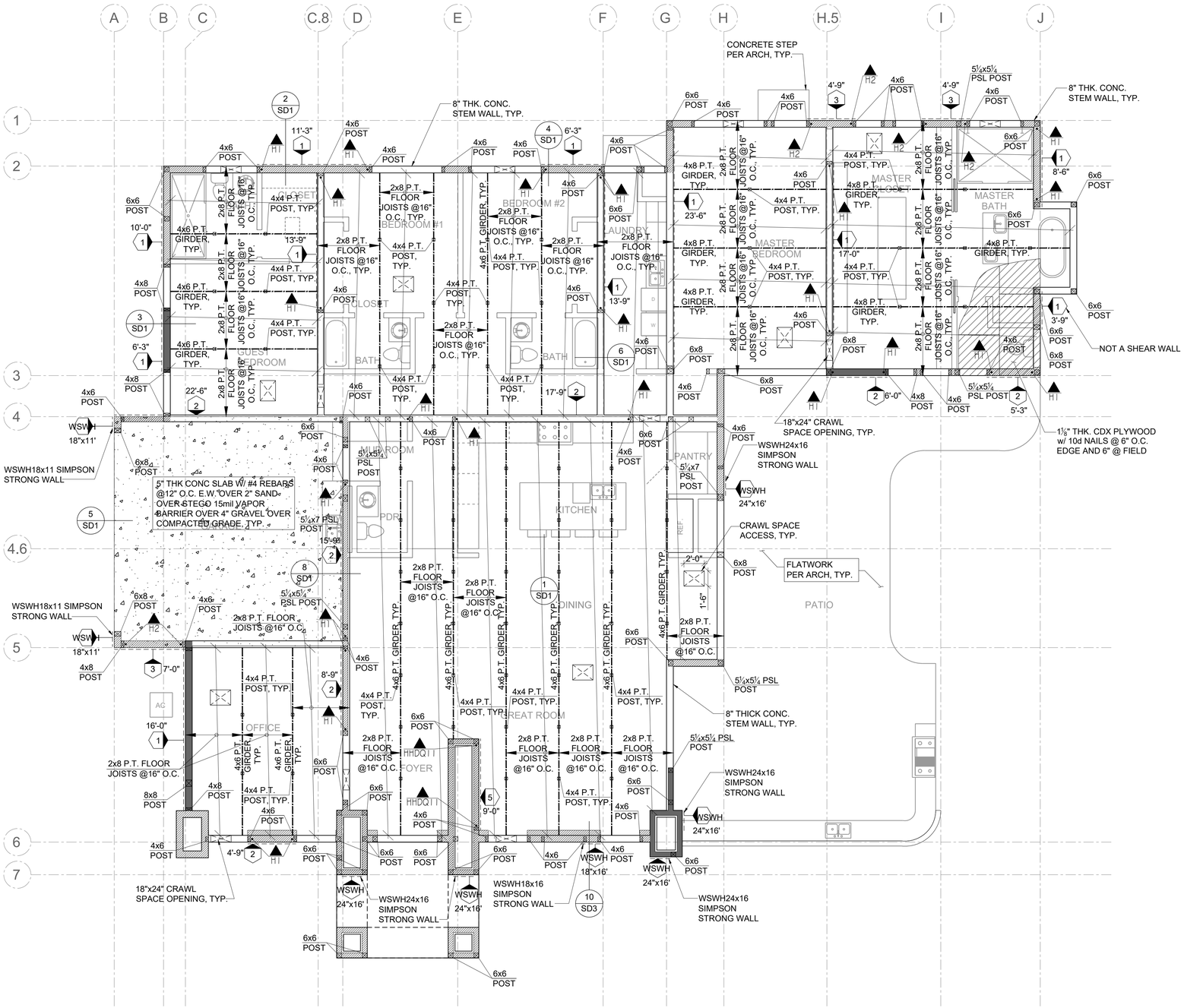
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FOUNDATION PLAN

Project No.#:

Sheet:
S1



FIRST FLOOR FRAMING PLAN

SCALE: 3/16" = 1'-0"

SHEARWALL SCHEDULE

TYPE	APA RATED[1] SHEATHING	SILL PLATE (FND.)	ANCHOR[2] BOLT SPACING	FRAMING MEMBER AT PANEL EDGE[3]	SOLE[4] PLATE TO RIM	BLK'G/RIM BD. TO TOP/SILL PLATE
1 260 PLF	⅜" ONE FACE W/ 8d @ 6" O.C. EDGE 12" O.C. FIELD	2x	⅝" Ø x 10" A.B. @ 32" O.C.	2x	16d @ 6" O.C.	A35 CLIP @ 24" O.C.
2 380 PLF	⅜" ONE FACE W/ 8d @ 4" O.C. EDGE 12" O.C. FIELD	2x	⅝" Ø x 10" A.B. @ 32" O.C.	2x	16d @ 4" O.C.	A35 CLIP @ 16" O.C.
3 490 PLF	⅜" ONE FACE W/ 8d @ 3" O.C. EDGE 12" O.C. FIELD	3x	⅝" Ø x 10" A.B. @ 32" O.C.	3x	16d @ 3" O.C.	A35 CLIP @ 16" O.C.
4 640 PLF	⅜" ONE FACE W/ 8d @ 2" O.C. EDGE 12" O.C. FIELD	3x	⅝" Ø x 10" A.B. @ 24" O.C.	3x	A35 CLIP @ 12" O.C.	A35 CLIP @ 12" O.C.
5 760 PLF	⅜" BOTH FACE W/ 8d @ 4" O.C. EDGE 12" O.C. FIELD	3x	⅝" Ø x 10" A.B. @ 16" O.C.	3x	A35 CLIP @ 8" O.C.	A35 CLIP @ 8" O.C.
6 980 PLF	⅜" BOTH FACE W/ 8d @ 3" O.C. EDGE 12" O.C. FIELD	3x	⅝" Ø x 10" A.B. @ 12" O.C.	3x	A35 CLIP @ 6" O.C.	A35 CLIP @ 6" O.C.
7 1280 PLF	⅜" BOTH FACE W/ 8d @ 2" O.C. EDGE 12" O.C. FIELD	3x	¾" Ø x 10" A.B. @ 16" O.C.	3x	A35 CLIP @ 6" O.C.	A35 CLIP @ 6" O.C.

1. SHEATHING TO BE 4'-0"x8'-0" MIN. EXCEPT AT BOUNDARIES OR AT CHANGES IN FRAMING WHERE MIN. WIDTH IS TO BE 24" (TYP.)
2. MIN. 7" EMBEDMENT INTO CONC., PROVIDE 3"x3"x¼" PLATE WASHER AT EACH BOLT. MIN. (2) BOLTS PER SHEARWALL.
3. 3x FRAMING MEMBERS ARE TO BE SINGLE MEMBERS AND REQUIRE STAGGERED NAILING.
4. SOLE PLATE TO BE 2x U.N.O. SOLE PLATE TO RIM CONNECTION OCCURS ABOVE FOUNDATION PLATE LEVEL AT RAISED FLOOR AND SECOND FLOOR APPLICATIONS.

ANCHOR HOLDOWN SCHEDULE

TYPE	SIMPSON TYPE	MIN. HD[1] POST	HD TO POST CONNECTION	HOLDOWN ANCHOR	MIN. ANCHOR EMBEDMENT[2] "SSTB" ANCHOR	MIN. ANCHOR EMBEDMENT[2] THREADED ROD ANCHOR	MIN. FOOTING SIZE[2,3]
H1 3,075#	HDU2-SDS2.5	DBL 2x STUD	(6) SDS ¼x2½ WOOD SCREWS	⅝"Ø A.B.	"SSTB20" 18"	-	24"x24"x24"
H2 4,565#	HDU4-SDS2.5	DBL 2x STUD	(6) SDS ¼x2½ WOOD SCREWS	⅝"Ø A.B.	"SSTB24" 21"	-	24"x24"x24"
H3 5,645#	HDU5-SDS2.5	DBL 2x STUD	(14) SDS ¼x2½ WOOD SCREWS	¾"Ø A.B.	"SSTB24" 21"	-	24"x24"x24"
H4	HDU8-SDS2.5	(2)2x -5,980#	(20) SDS ¼x2½ WOOD SCREWS	⅞"Ø A.B.	"SSTB34" 30"	-	24"x24"x24"
		4x POST-6,970#		⅞"Ø A.B.			
		(3)2x -7,870#		⅞"Ø A.B.			
H5	HDU11-SDS2.5	6x POST-9,535#	(30) SDS ¼x2½ WOOD SCREWS	1"Ø A.B.	-	1"Ø 9"	30"x30"x24"
		8x POST-11,175#		1"Ø A.B.		1"Ø 10"	

1. CONNECT MULTI 2x HOLDOWN STUDS TOGETHER WITH (24) 16d OVER LENGTH OF STUD.
2. THE A.B. EMBEDMENT AND FOOTING SIZE IS BASED UPON CHAPTER 17, ACI318-19.
3. THE ANCHOR BOLT EMBEDMENT NOTED SHOULD BE IN CONTINUOUS FOOTING OR WIDENED FOOTING OF THE SIZE AS NOTED ABOVE UNO AND EXCLUDES EMBEDMENT IN STEM WALL. FOR TURNDOWN SLAB FOOTING, WIDEN THE FOOTING TO THE SIZE AS NOTED ABOVE UNO. THE SIZE OF FOOTING NOTED HERE TO BE COORDINATED WITH SIZE NOTED ON FOOTING PLAN AND PROVIDE LARGER SIZE.

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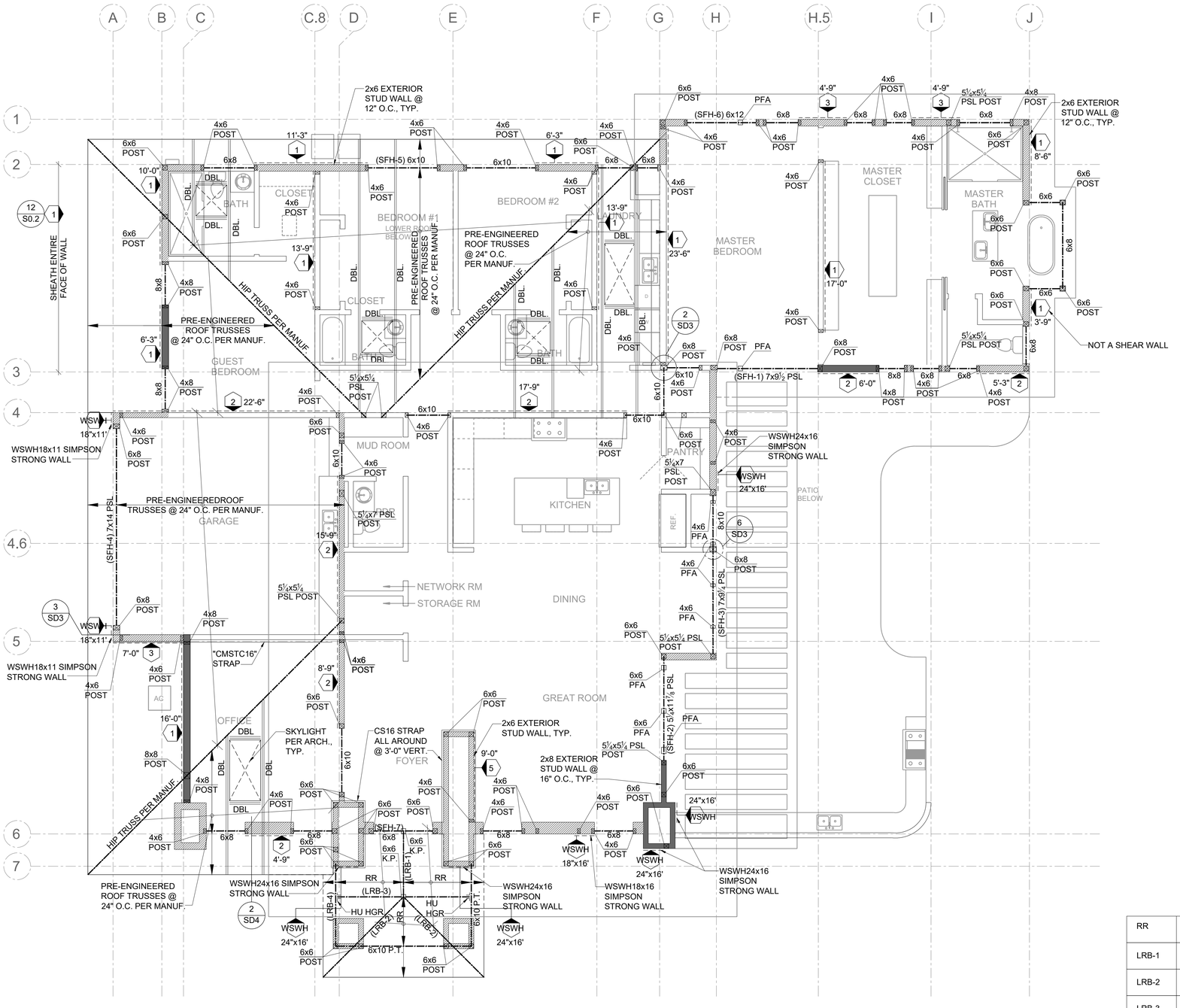
SHYSHKA RESIDENCE

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Sheet Title:
FIRST FLOOR FRAMING PLAN

Project No.#:

Sheet:
S2



LOW ROOF FRAMING PLAN

SCALE: 3/16" = 1'-0"

RR	2x8 P.T. LOW ROOF RAFTERS @ 16" O.C.
LRB-1	6x8 P.T.
LRB-2	6x8 P.T.
LRB-3	5¼x9¼ PSL PLUS
LRB-4	6x10 P.T.

LEGEND

	2x6 EXTERIOR STUD WALL @ 12" O.C.
	2x8 EXTERIOR STUD WALL @ 16" O.C.

SHEARWALL SCHEDULE

TYPE	APA RATED[1] SHEATHING	SILL PLATE (FND.)	ANCHOR[2] BOLT SPACING	FRAMING MEMBER AT PANEL EDGE[3]	SOLE[4] PLATE TO RIM	BLK'G/RIM BD. TO TOP/SILL PLATE
1 260 PLF	⅜" ONE FACE W/ 8d @ 6" O.C. EDGE 12" O.C. FIELD	2x	⅝" Ø x 10" A.B. @ 32" O.C.	2x	16d @ 6" O.C.	A35 CLIP @ 24" O.C.
2 380 PLF	⅜" ONE FACE W/ 8d @ 4" O.C. EDGE 12" O.C. FIELD	2x	⅝" Ø x 10" A.B. @ 32" O.C.	2x	16d @ 4" O.C.	A35 CLIP @ 16" O.C.
3 490 PLF	⅜" ONE FACE W/ 8d @ 3" O.C. EDGE 12" O.C. FIELD	3x	⅝" Ø x 10" A.B. @ 32" O.C.	3x	16d @ 3" O.C.	A35 CLIP @ 16" O.C.
4 640 PLF	⅜" ONE FACE W/ 8d @ 2" O.C. EDGE 12" O.C. FIELD	3x	⅝" Ø x 10" A.B. @ 24" O.C.	3x	A35 CLIP @ 12" O.C.	A35 CLIP @ 12" O.C.
5 760 PLF	⅜" BOTH FACE W/ 8d @ 4" O.C. EDGE 12" O.C. FIELD	3x	⅝" Ø x 10" A.B. @ 16" O.C.	3x	A35 CLIP @ 8" O.C.	A35 CLIP @ 8" O.C.
6 980 PLF	⅜" BOTH FACE W/ 8d @ 3" O.C. EDGE 12" O.C. FIELD	3x	⅝" Ø x 10" A.B. @ 12" O.C.	3x	A35 CLIP @ 6" O.C.	A35 CLIP @ 6" O.C.
7 1280 PLF	⅜" BOTH FACE W/ 8d @ 2" O.C. EDGE 12" O.C. FIELD	3x	¾" Ø x 10" A.B. @ 16" O.C.	3x	A35 CLIP @ 6" O.C.	A35 CLIP @ 6" O.C.

1. SHEATHING TO BE 4'-0"x8'-0" MIN. EXCEPT AT BOUNDARIES OR AT CHANGES IN FRAMING WHERE MIN. WIDTH IS TO BE 24" (TYP.)
2. MIN. 7" EMBEDMENT INTO CONC., PROVIDE 3"x3"x¼" PLATE WASHER AT EACH BOLT. MIN. (2) BOLTS PER SHEARWALL.
3. 3x FRAMING MEMBERS ARE TO BE SINGLE MEMBERS AND REQUIRE STAGGERED NAILING.
4. SOLE PLATE TO BE 2x U.N.O. SOLE PLATE TO RIM CONNECTION OCCURS ABOVE FOUNDATION PLATE LEVEL AT RAISED FLOOR AND SECOND FLOOR APPLICATIONS.

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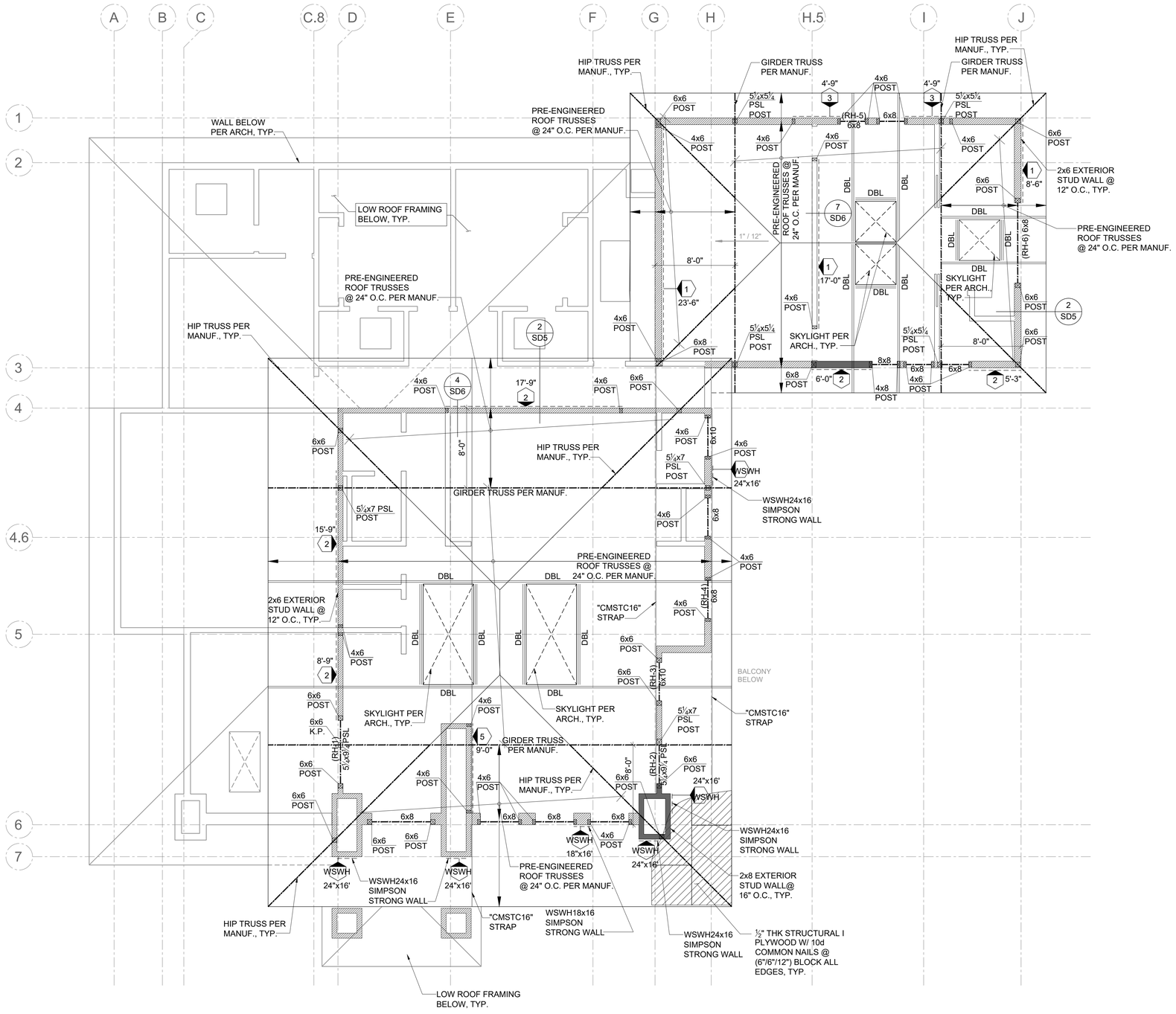
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Sheet Title:
LOW ROOF FRAMING PLAN

Project No.#:

Sheet:
S3



HIGH ROOF FRAMING PLAN

SCALE: 3/16" = 1'-0"

LEGEND	
	2x6 EXTERIOR STUD WALL @ 12" O.C.
	2x8 EXTERIOR STUD WALL @ 16" O.C.

SHEARWALL SCHEDULE

TYPE	APA RATED[1] SHEATHING	SILL PLATE (FND.)	ANCHOR[2] BOLT SPACING	FRAMING MEMBER AT PANEL EDGES[3]	SOLE[4] PLATE TO RIM	BLK'G/RIM BD. TO TOP/SILL PLATE
1 260 PLF	15/32" ONE FACE W/ 8d @ 6" O.C. EDGE 12" O.C. FIELD	2x	⅝" Ø x 10" A.B. @ 32" O.C.	2x	16d @ 6" O.C.	A35 CLIP @ 24" O.C.
2 380 PLF	15/32" ONE FACE W/ 8d @ 4" O.C. EDGE 12" O.C. FIELD	2x	⅝" Ø x 10" A.B. @ 32" O.C.	2x	16d @ 4" O.C.	A35 CLIP @ 16" O.C.
3 490 PLF	15/32" ONE FACE W/ 8d @ 3" O.C. EDGE 12" O.C. FIELD	3x	⅝" Ø x 10" A.B. @ 32" O.C.	3x	16d @ 3" O.C.	A35 CLIP @ 16" O.C.
4 640 PLF	15/32" ONE FACE W/ 8d @ 2" O.C. EDGE 12" O.C. FIELD	3x	⅝" Ø x 10" A.B. @ 24" O.C.	3x	A35 CLIP @ 12" O.C.	A35 CLIP @ 12" O.C.
5 760 PLF	15/32" BOTH FACE W/ 8d @ 4" O.C. EDGE 12" O.C. FIELD	3x	⅝" Ø x 10" A.B. @ 16" O.C.	3x	A35 CLIP @ 8" O.C.	A35 CLIP @ 8" O.C.
6 980 PLF	15/32" BOTH FACE W/ 8d @ 3" O.C. EDGE 12" O.C. FIELD	3x	⅝" Ø x 10" A.B. @ 12" O.C.	3x	A35 CLIP @ 6" O.C.	A35 CLIP @ 6" O.C.
7 1280 PLF	15/32" BOTH FACE W/ 8d @ 2" O.C. EDGE 12" O.C. FIELD	3x	¾" Ø x 10" A.B. @ 16" O.C.	3x	A35 CLIP @ 6" O.C.	A35 CLIP @ 6" O.C.

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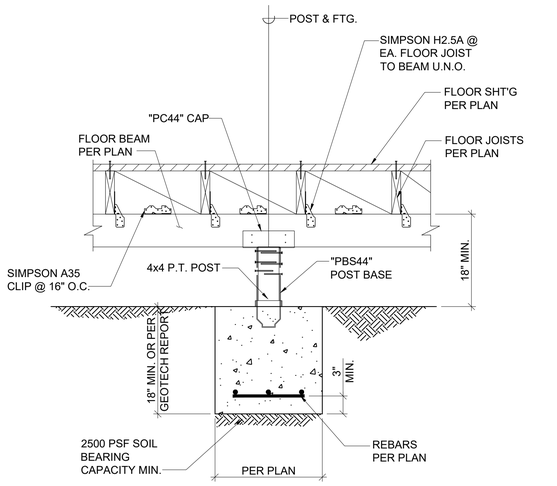
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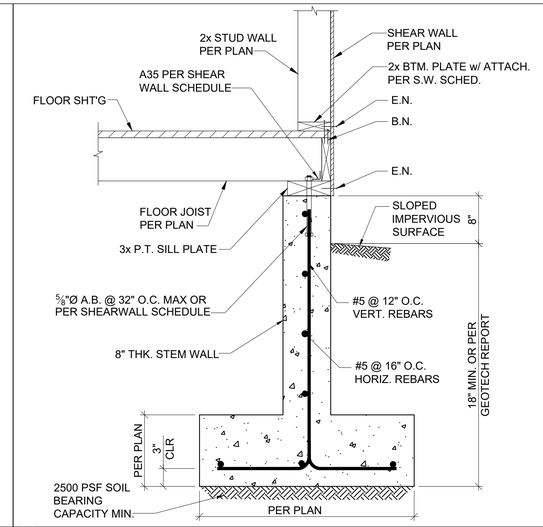
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HIGH ROOF FRAMING PLAN

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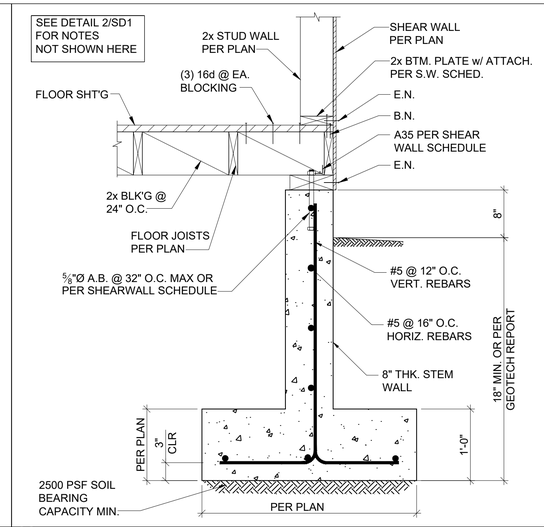
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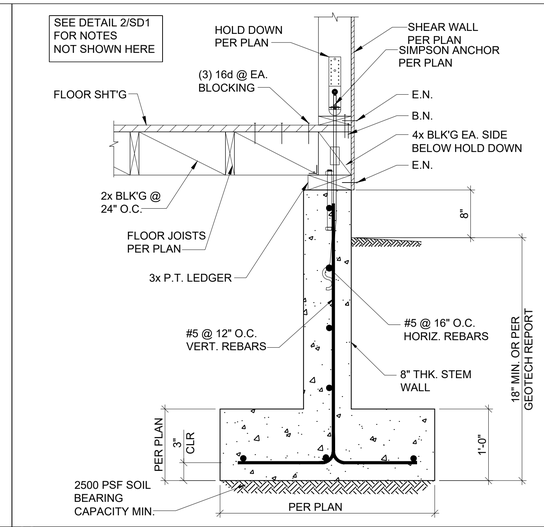
1 DETAIL @ FIRST FLOOR FRAMING & FOOTING



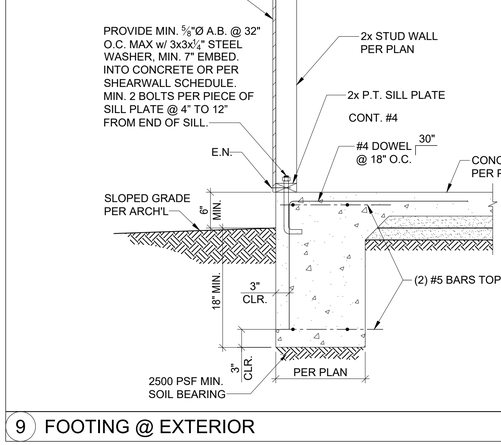
2 EXTERIOR FOOTING (PERPENDICULAR JOIST)



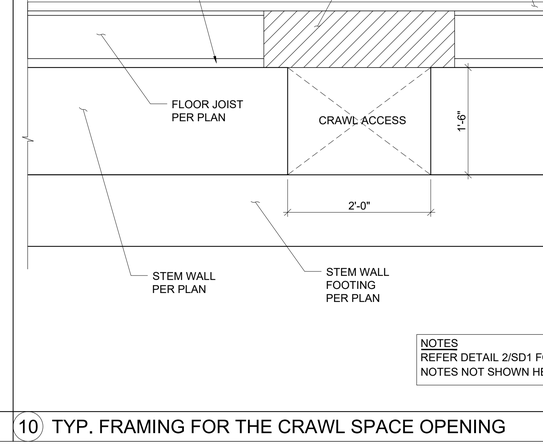
3 EXTERIOR FOOTING (PARALLEL JOIST)



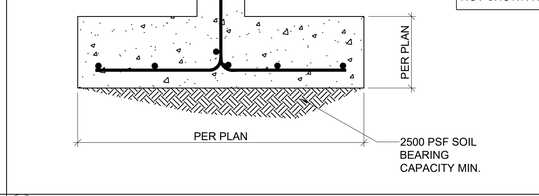
4 EXTERIOR FOOTING @ HOLD DOWN



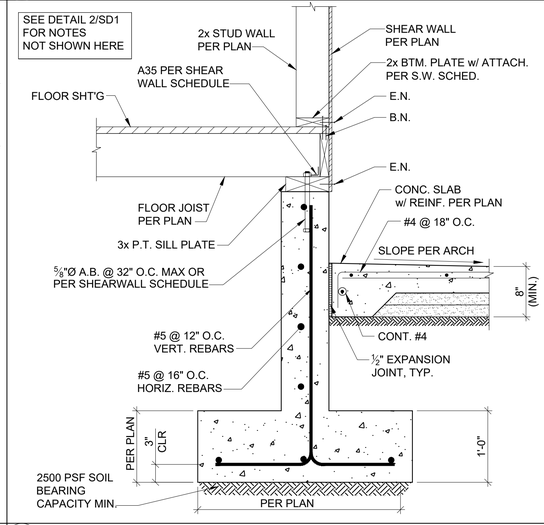
5 DETAIL @ TURNDOWN FOOTING



6 INTERIOR FOOTING (PERPENDICULAR JOIST)



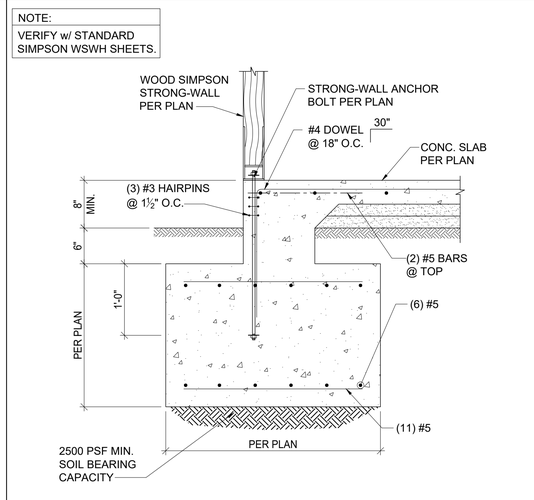
7 STEEL COLUMN BASE



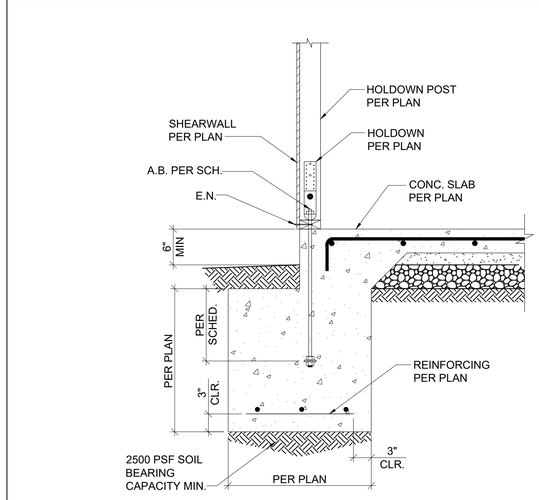
8 CONC.STEM WLL TO GARAGE SLAB CONNECTION

9 FOOTING @ EXTERIOR

10 TYP. FRAMING FOR THE CRAWL SPACE OPENING



11 FOOTING @ SIMPSON STRONG WALL



12 HOLDOWN FOOTING @ EXTERIOR WALL

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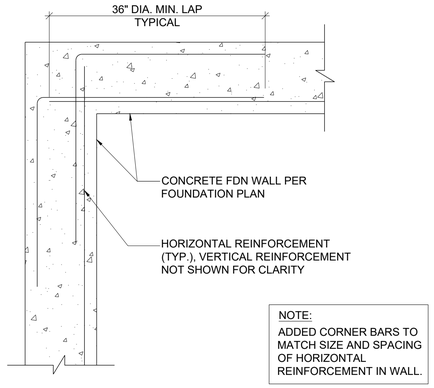
SHYSHKA RESIDENCE

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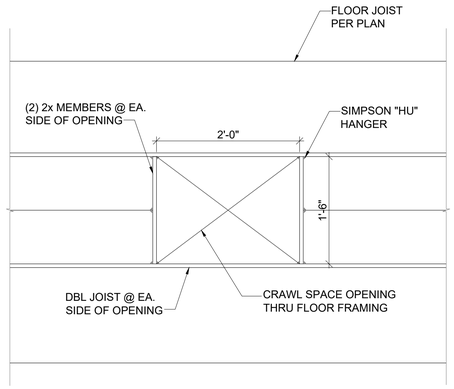
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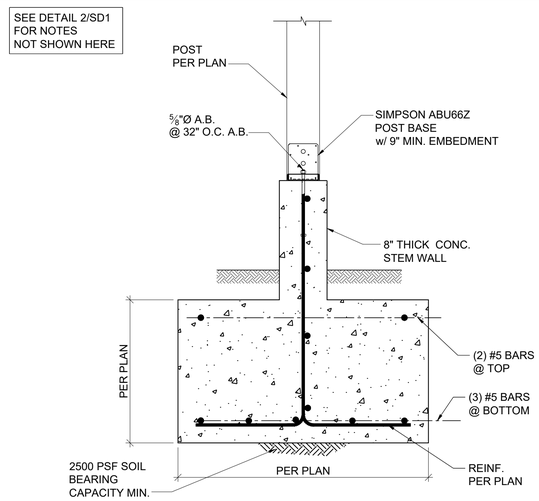
CORNER DETAIL (PLAN VIEW)

1 TYPICAL CONCRETE WALL CORNER DETAIL

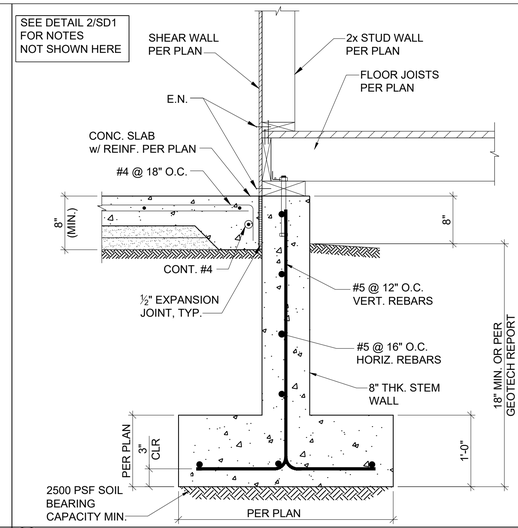


PLAN VIEW:

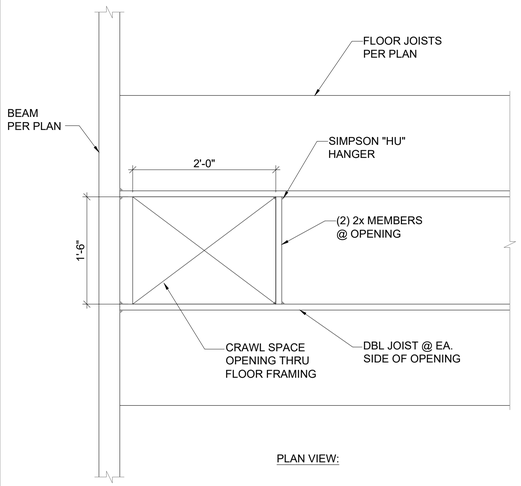
2 TYP. FRAMING FOR THE CRAWL SPACE ACCESS



3 TYP. STEM WALL FOOTING FOR POST

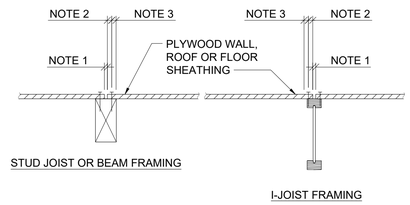


4 CONCRETE STEPS TO STEM WALL FOOTING



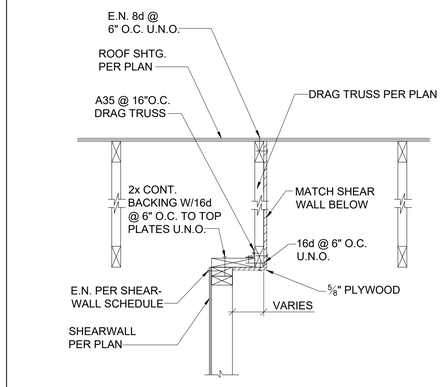
PLAN VIEW:

5 TYP. FRAMING FOR THE CRAWL SPACE ACCESS

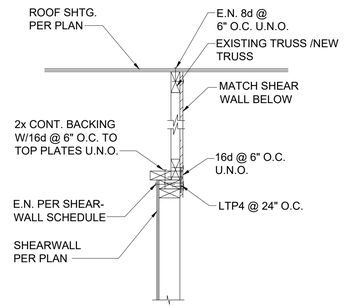


NOTES:
1. CLEARANCE PER PANEL MFG. ⅛" TYP.
2. ⅜" MIN. PANEL EDGE DISTANCE.
3. 5/16 MIN. LUMBER EDGE DISTANCE.

6 TYP. MIN. NAILING EDGE DISTANCES FOR SHT'G

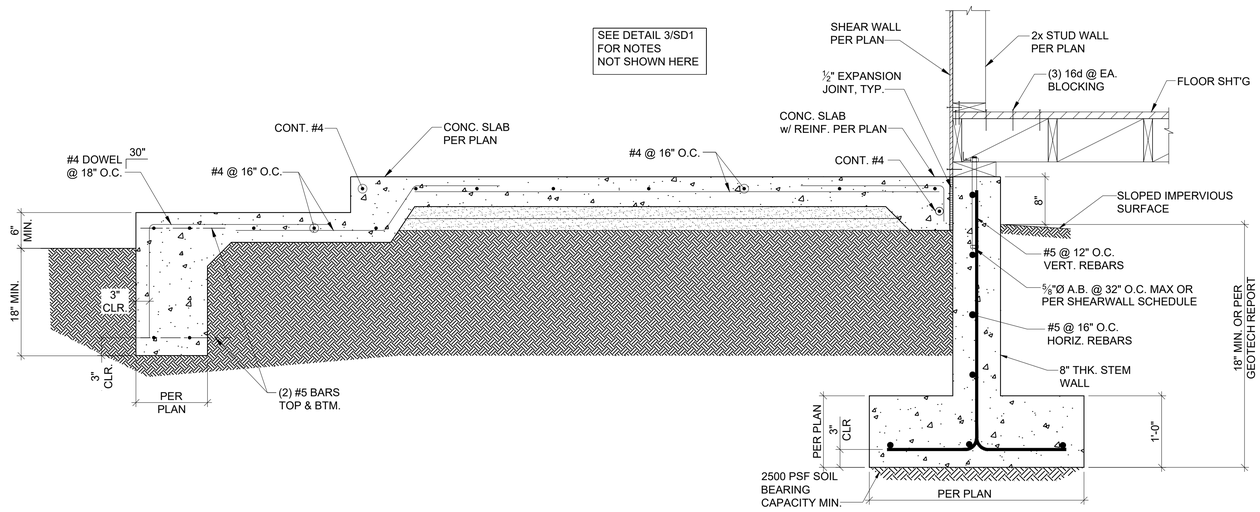


OFFSET DRAG TRUSS

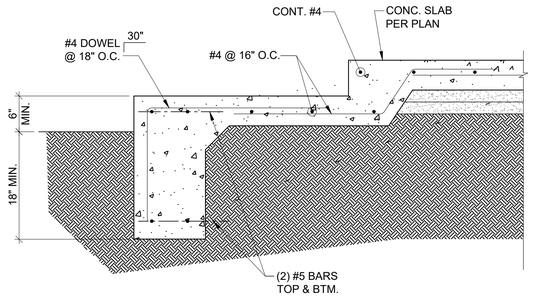


IN PLANE DRAG TRUSS

7 TYP. SHEAR TRANSFER @ PARALLEL CONDITION



8 FOOTING @ CONCRETE STEPS



9 DETAIL @ CONCRETE STEPS

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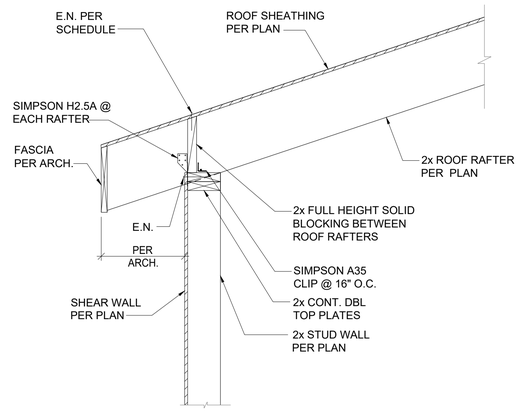
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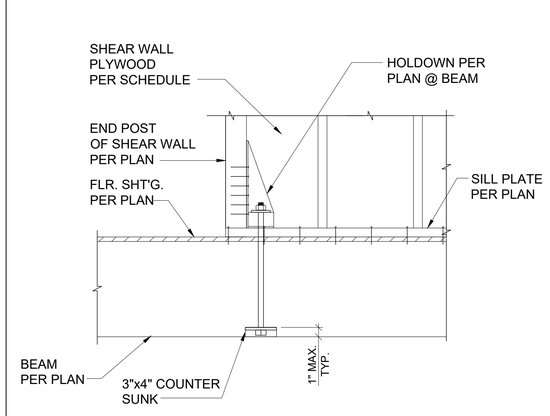
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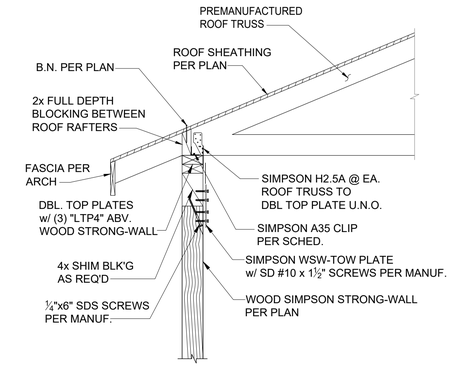
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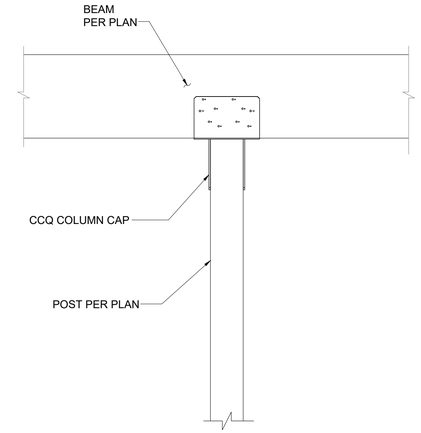
1 ROOF RAFTERS TO WALL BEARING CNXN



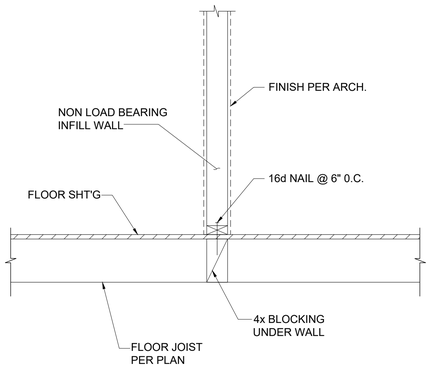
2 TYP. HOLDOWN CONNECTION TO BEAM



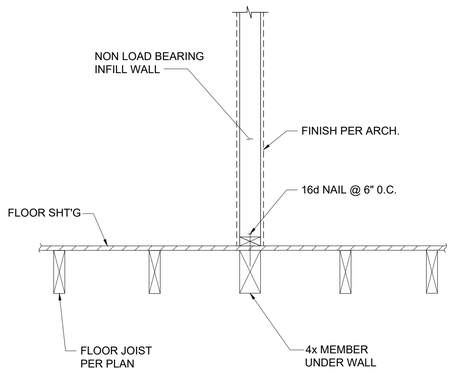
3 ROOF TRUSSES TO STRONG WALL CONNECTION



4 TYPICAL BEAM TO POST CONNECTION

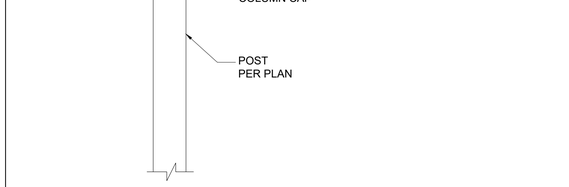


PARALLEL TO FRAMING

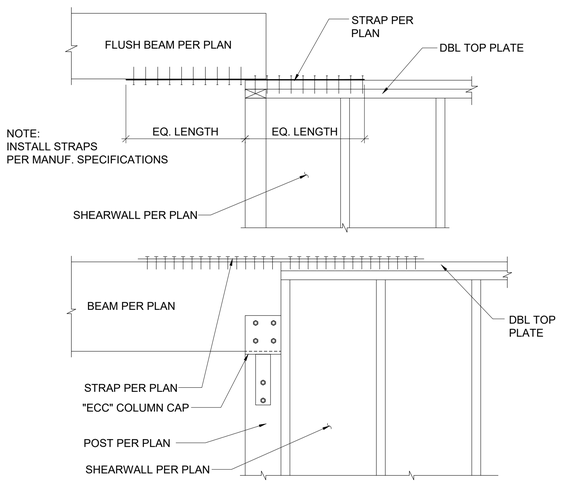


PERPENDICULAR TO FRAMING

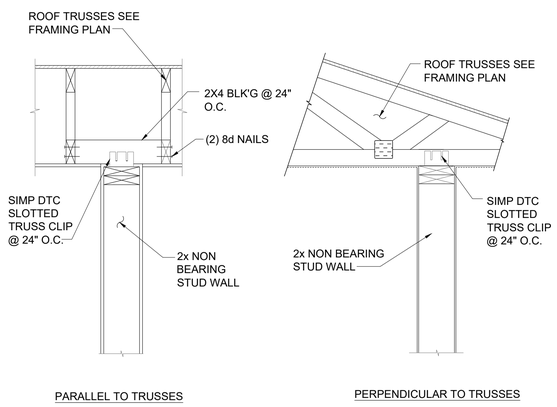
5 TYP. NON-LOAD BEARING WALL BOTTOM CONNECTION



6 DETAIL @ BEAM TO POST CONNECTION

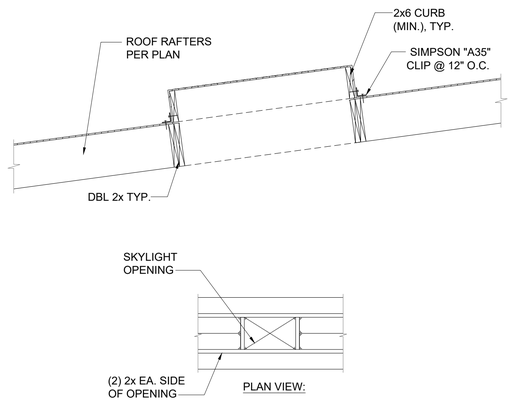


7 TYP. DETAIL @ DRAG BEAM- FLUSH & DROPPED

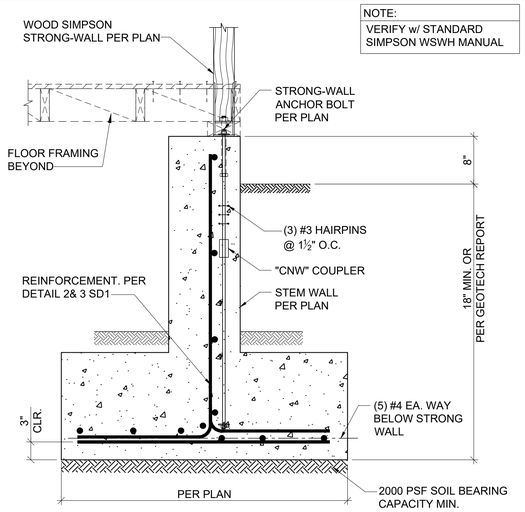


PARALLEL TO TRUSSES PERPENDICULAR TO TRUSSES

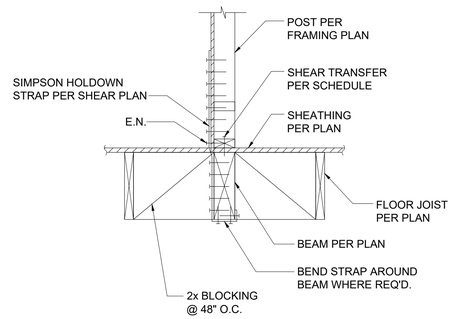
8 TYPICAL DETAIL @ NON BRG WALL



9 TYPICAL SKYLIGHT FRAMING DETAIL



10 SIMPSON STRONG WALL TO STEM WALL CONNECTION



11 TYP. HOLDOWN STRAP CONNECTION @ INTERIOR BEAM

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CIVIL
STATE OF CALIFORNIA

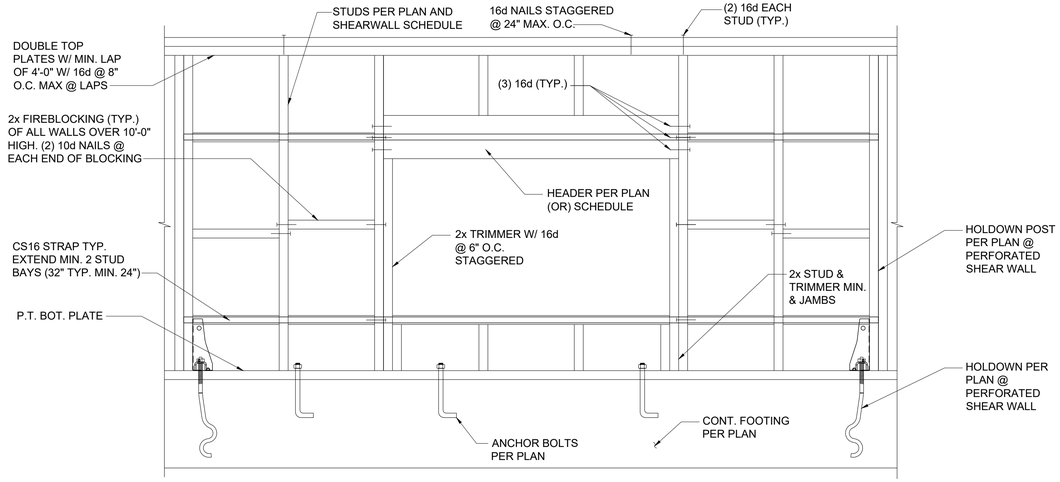
SHYSHKA RESIDENCE

1285 W EDMUNDSON
MORGAN HILL, CA 95037

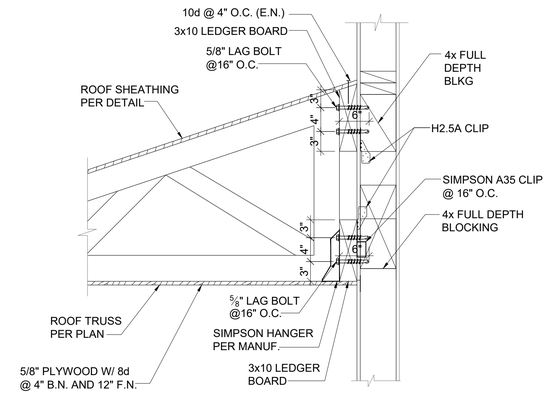
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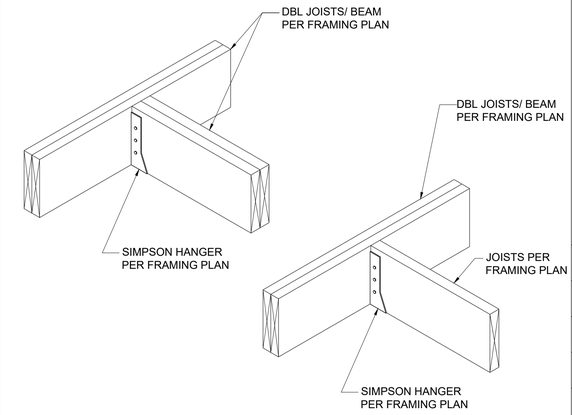
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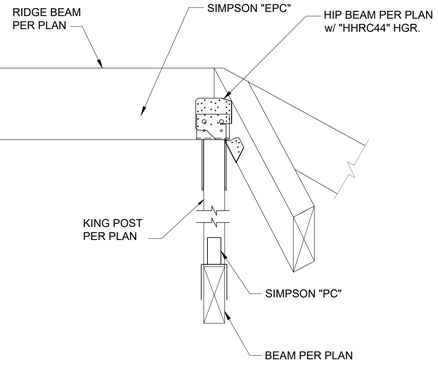
1 TYPICAL WINDOW FRAMING & PERFORATED SHEARWALL FRAMING DETAIL



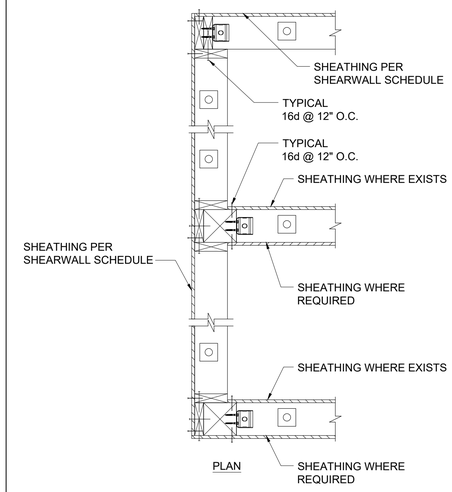
2 LOW ROOF TRUSS TO WALL CONNECTION



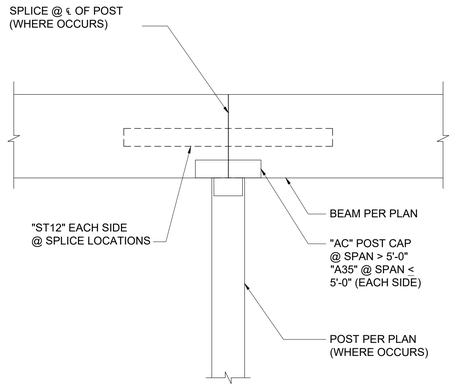
3 TYPICAL DETAIL @ BEAM TO BEAM CONNECTION



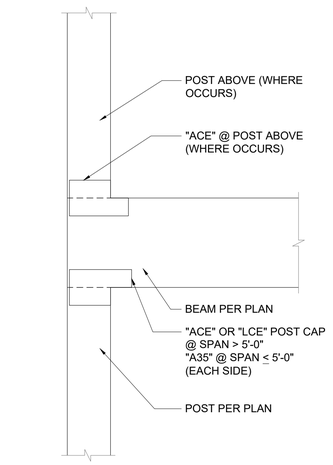
4 TYP. HIP BEAM TO RIDGE BEAM CONNECTION



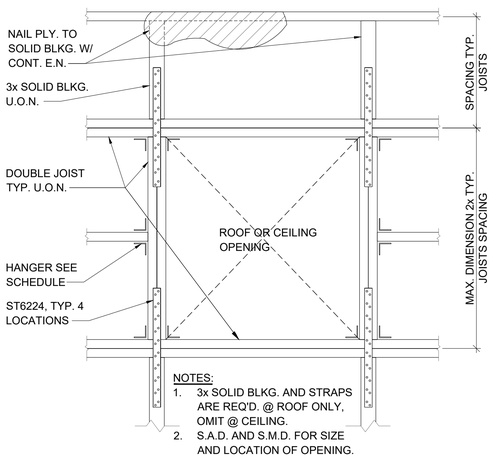
5 TYP. STUD WALL @ INTERSECTIONS



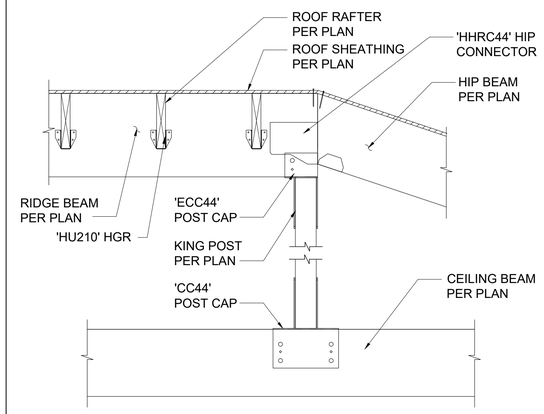
6 TYP. INTERIOR BEAM TO POST CONNECTION



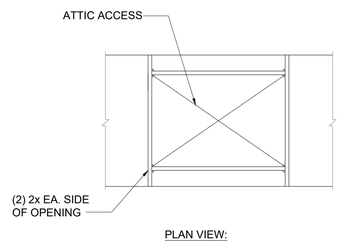
7 TYPICAL END POST CONNECTION



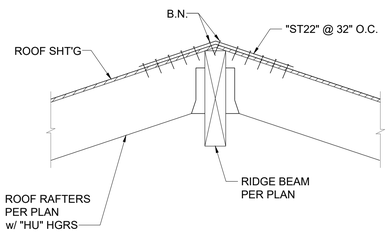
8 TYPICAL SKYLIGHT FRAMING DETAIL



9 TYP. HIP BEAM TO RIDGE BEAM CONNECTION



10 TYP. ATTIC OPENING DETAIL



11 RIDGE BEAM & RAFTER CONNECTION

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C 68517
EXP. 09/30/25
CIVIL
STATE OF CALIFORNIA

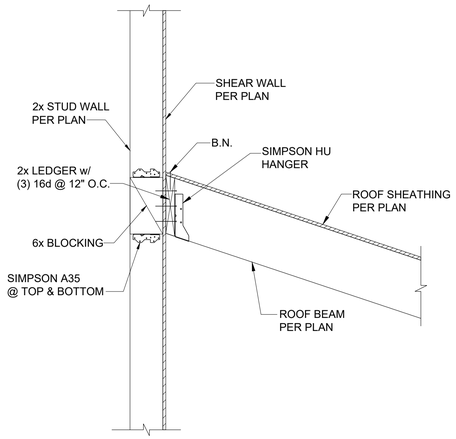
SHYSHKA RESIDENCE

1285 W EDMUNDSON
MORGAN HILL, CA 95037

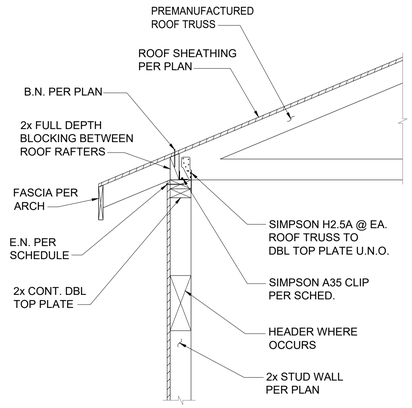
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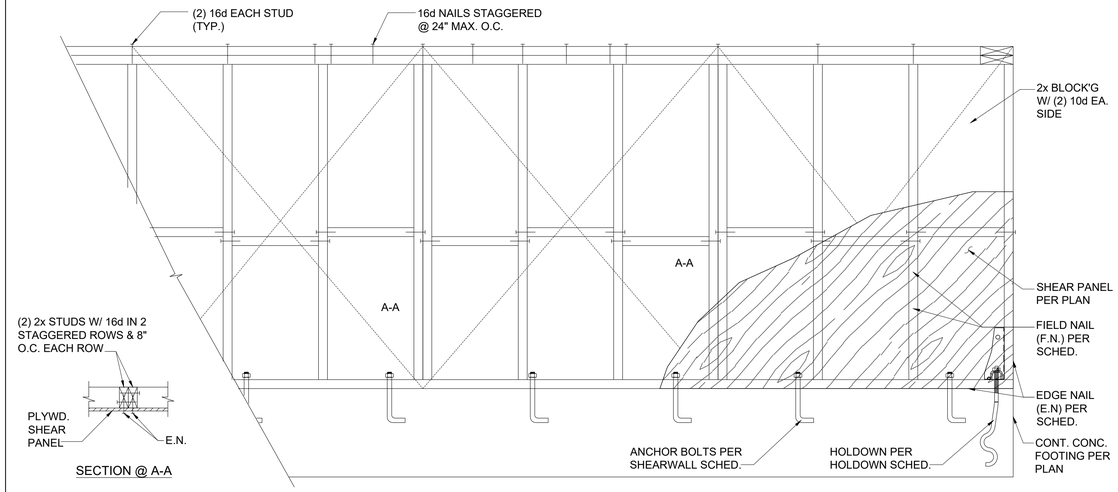
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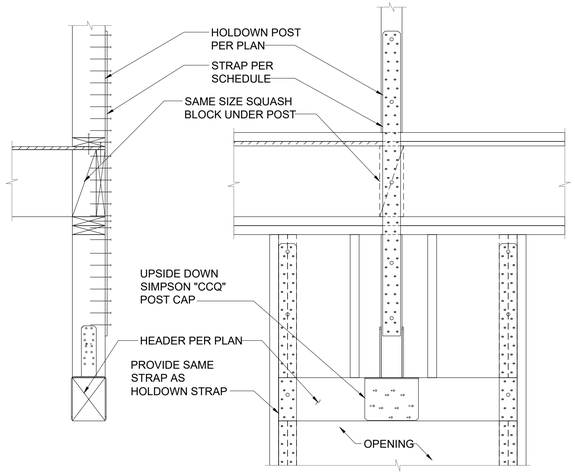
1 LOW ROOF BEAM TO WALL CONNECTION

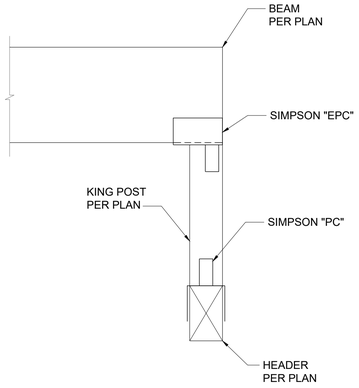


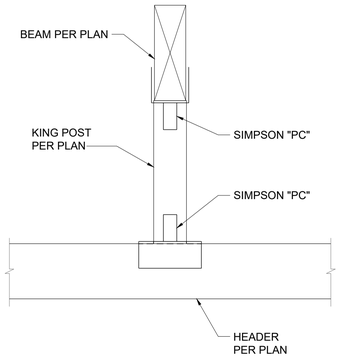
2 TRUSS DETAIL @ EXTERIOR WALL (PERPENDICULAR)



3 TYPICAL DETAIL @ SHEAR WALL



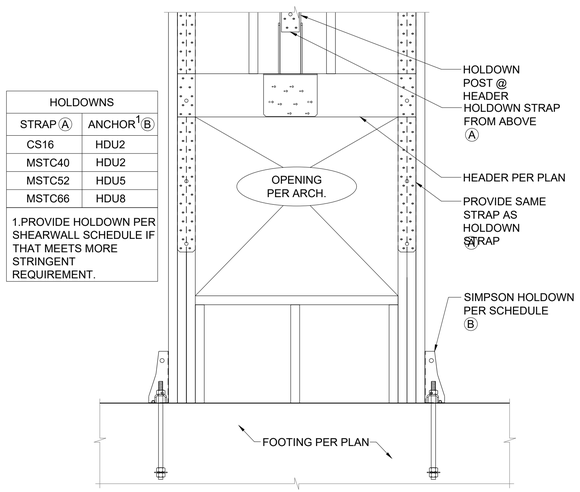




4 TYPICAL BEAM TO KING POST CONNECTION

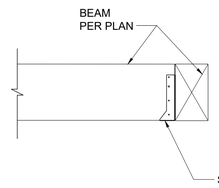
HOLDOWNS	
STRAP Ⓐ	ANCHOR[1] Ⓑ
CS16	HDU2
MSTC40	HDU2
MSTC52	HDU5
MSTC66	HDU8

1.PROVIDE HOLDOWN PER SHEARWALL SCHEDULE IF THAT MEETS MORE STRINGENT REQUIREMENT.



5 TYP. HOLDOWN STRAP @ HEADER TO FOUNDATION CONNECTION

6 NOT USED



7 BEAM TO BEAM CONNECTION

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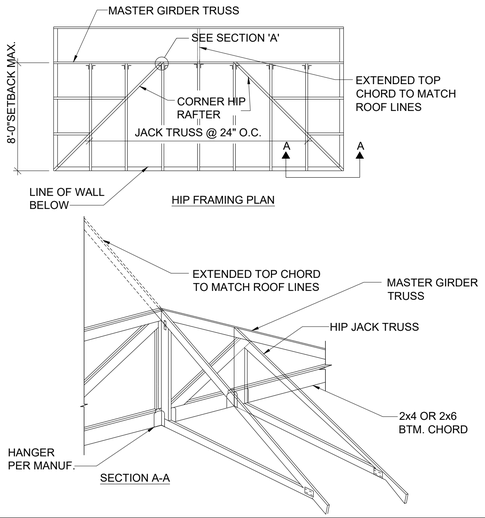
SHYSHKA RESIDENCE

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MORGAN HILL, CA 95037

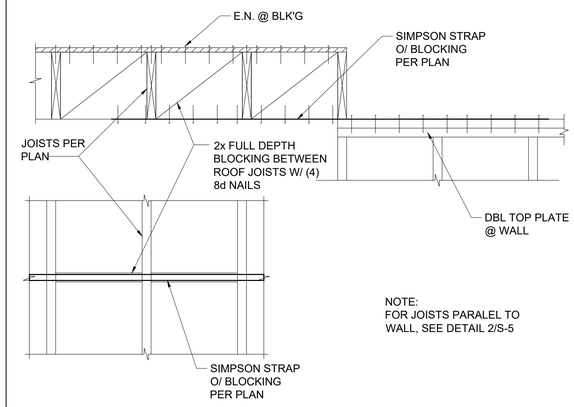
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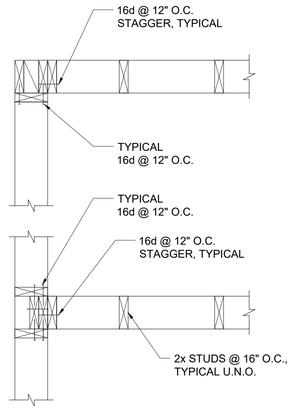
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1 TYPICAL HIP FRAMING DETAIL

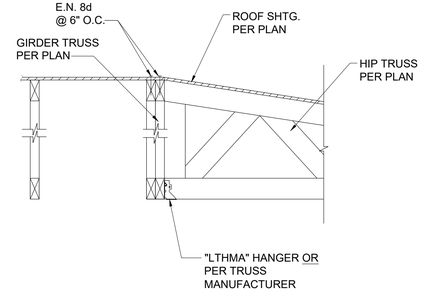


2 TYP. SIMPSON STRAP O/ BLOCKING

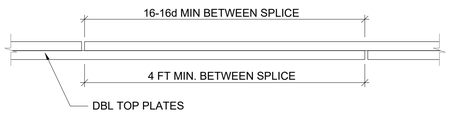


PLAN

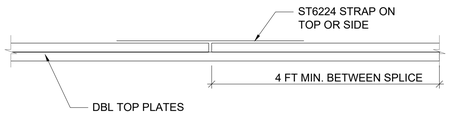
3 TYPYCAL STUD WALL @ INTERSECTION DETAIL



4 HIP TRUSS TO GIRDER TRUSS CONECTION

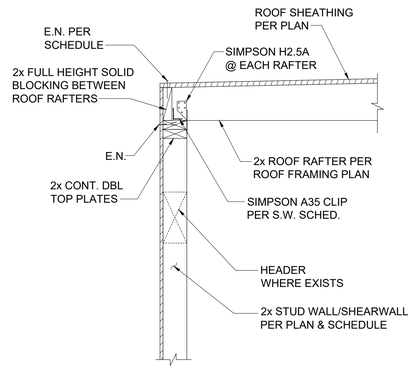


ALTERNATE #1



ALTERNATE #2

5 TYPICAL DETAIL @ TOP PLATE SPLICE



6 DETAIL @ LOW ROOF RAFTERS TO WALL BEARING

7 NOT USED

8 NOT USED

9 NOT USED

10 NOT USED

11 NOT USED

12 NOT USED

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