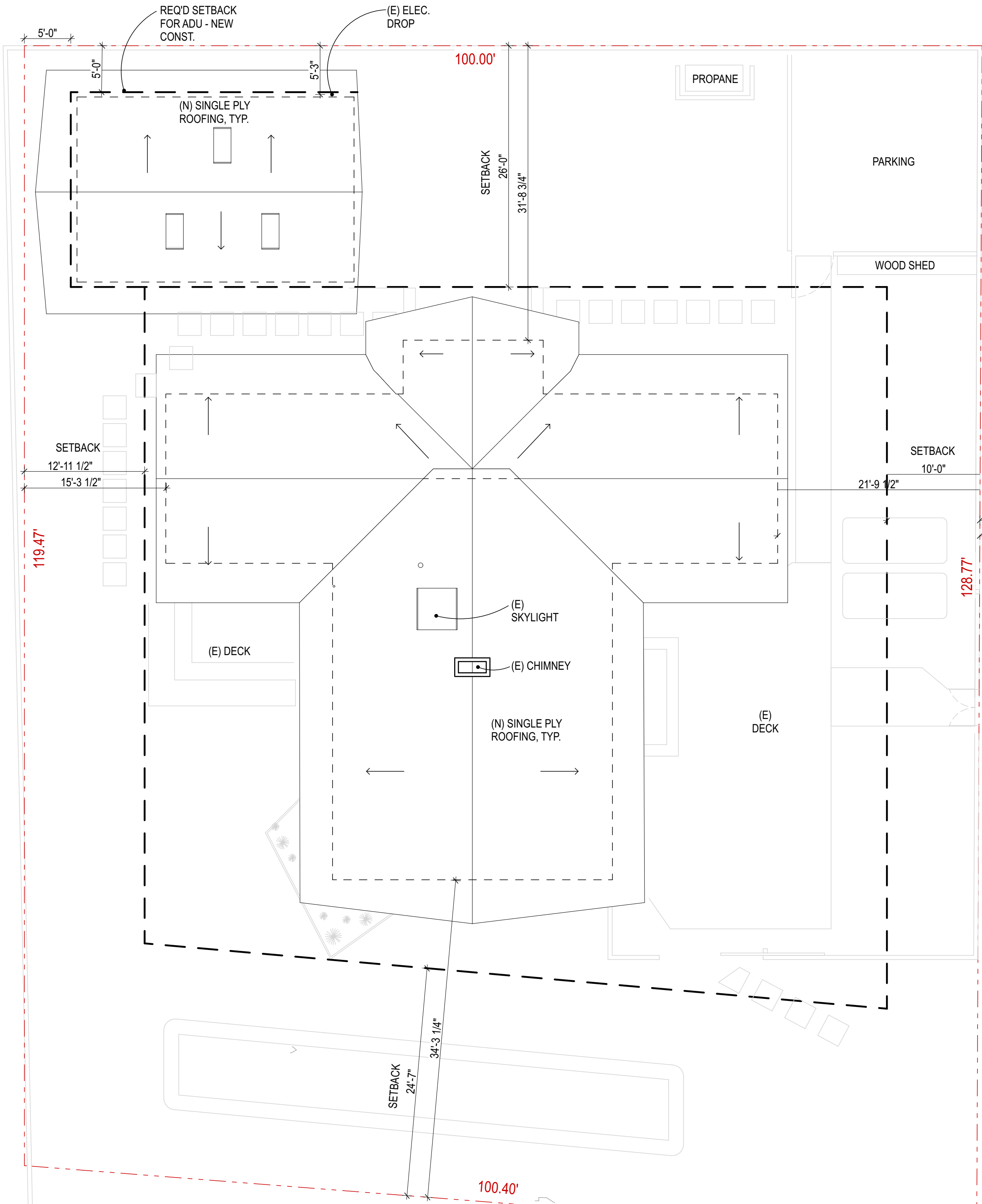


1 (E) SITE PLAN

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



OCEAN P'WAY
PUBLIC 100' R.O.W

SCOPE OF WORK

PROPERTY INFORMATION
SITE ADDRESS: 230 OCEAN PARKWAY
BOLINAS, CA 94924
APN: 191-161-05
LOT: 14,393 sq ft (PER CAD)

PROJECT SCOPE:
AN INTERIOR REMODEL TO EXISTING SINGLE-FAMILY RESIDENCE, NEW DETACHED CATEGORY 4 ACCESSORY DWELLING UNIT, AND NEW ACCESSORY STRUCTURE ~420 SF. WORK TO SFR INCLUDES REMODEL OF 2 EXISTING BATHROOMS, REMOVE AND REPLACE FINISHES, FIXTURES, AND WINDOWS/DOORS THROUGHOUT THE HOUSE (INCLUDING EXISTING KITCHEN), NEW CATEGORY 1 ADU INVOLVES CONVERSION OF AN EXISTING OUTBUILDING (GARAGE/STUDIO) WITH ~60 SF ADDITION TO PROVIDE ACCESS (EGRESS) TO THE UNIT.

NOTE:
IF THIS PROJECT INVOLVES EXCAVATION, DRILLING, OR OTHER EARTHWORK OR ANY BARE GROUND IS EXPOSED BETWEEN OCTOBER 15 AND APRIL 15, EROSION CONTROL MEASURES MUST BE IN PLACE AND MAINTAINED CONTINUOUSLY DURING THOSE PERIODS. A SIGNED COPY OF THE EROSION CONTROL PLAN MUST BE POSTED AT THE SITE, ALONG WITH THE BUILDING PERMIT.

APPLICABLE CODES
ALL WORK SHALL CONFORM TO:
2022 CALIFORNIA BUILDING CODE
2022 CALIFORNIA RESIDENTIAL CODE
2022 CALIFORNIA ELECTRICAL CODE
2022 CALIFORNIA MECHANICAL CODE
2022 CALIFORNIA PLUMBING CODE
2022 CALIFORNIA FIRE CODE
2022 CALIFORNIA ENERGY CODE
2022 CALIFORNIA GREEN BUILDING CODE AND MARIN COUNTY ALL APPLICABLE LOCAL APPLICABLE.

DEFERRED SUBMITTALS
FIRE SPRINKLERS
SOLAR PANELS

PROJECT DIRECTORY
OWNER: JOHN AND HOLLY HANKE
58 CREST RD,
PIEDMONT, CA 94611
holly.hanke@gmail.com
PHONE: 510-520-6651

DESIGNED BY: BUILDING LAB INC.
MARCO HYMAN-ROMERO
999 43RD ST.
OAKLAND, CA 94608
Marco@buildinglab.com
PHONE: 775-450-3085

STRUCT ENG: MOSSWOOD ENGINEERING
NATE WILLIAMS
3360 ADELINE ST,
BERKELEY, CA 94703
nate@mosswoodengineering.com
PHONE: 510-470-9495

JURISDICTION: MARIN COUNTY

PROJECT DATA

ZONING & PLANNING INFORMATION
GLOBAL COORDINATES: 37.899120, -122.700630

T24 ZONE: CZ3
WUI ZONE: YES
FLOOD ZONE: NO

ZONING: C-RA-B2
NEIGHBORHOOD: BOLINAS QUAIL REFUGE
HEIGHT LIMIT: 25' MAIN
15' ACCESSORY

FRONT SETBACK: 25'
BACK SETBACK: 10'
SIDE SETBACK: 20% LOT/25' MAX

OCCUPANCY: R-3; U
BLDG TYPE: VB
FIRE SPRINKLERS: EXISTING: NOT SPRINKLERED
PROPOSED: SPRINKLERED

MAIN HOUSE FLOOR AREA
EXISTING: 2,331 SF
PROPOSED: ~10 SF
TOTAL: 2,321 SF

ADU FLOOR AREA (SEE OTHER PERMIT)
EXISTING: 587 SF
PROPOSED: 60 SF
TOTAL: 647 SF

MISCELLANEOUS
WOOD SHED: 30 SF

FLOOR AREA RATIO (FAR)
EXISTING: 0.20
PROPOSED: 0.21

DECK FLOOR AREA
EXISTING: 1216 SF
PROPOSED: 726 SF
TOTAL: 1942 SF

ACCESSORY STRUCTURE
SHOWER/STORAGE: 95 SF
TRELLIS: 102 SF
TOTAL: 197 SF

IMPERVIOUS SURFACE AREA
EXISTING: 2918 SF
PROPOSED: 186 SF
TOTAL: 3104 SF

ABBREVIATIONS

| | | | |
|-------------|-------------------------------|----------|-------------------------|
| Ø | DIAMETER | LAV. | LAVATORY |
| AB. | ABOVE | MAX. | MAXIMUM |
| A.F.F. | ABOVE FINISHED FLOOR | MTR. | METER |
| AFCI | ARC FAULT CIRCUIT INTERRUPTOR | MECH. | MECHANICAL |
| ALT. | ALTERNATE | MED | MEDIUM |
| ARCH. | ARCHITECTURAL | MEMB. | MEMBRANE |
| BD. | BOARD | MFR. | MANUFACTURER |
| BLDG. | BUILDING | MIN. | MINIMUM |
| B.O. | BOTTOM OF | MISC. | MISCELLANEOUS |
| | | M.R. | MOISTURE RESISTANT |
| | | MS | MOTION SENSOR |
| | | MTL | METAL |
| | | N | NORTH |
| | | (N) | NEW |
| | | N.I.C. | NOT IN CONTRACT |
| | | NO. OR # | NUMBER |
| | | N.T.S. | NOT TO SCALE |
| | | O' | OVER |
| | | O.C. | ON CENTER |
| | | O.D. | OUTSIDE DIAMETER (DIM.) |
| | | O.P.N.G. | OPENING |
| | | OPP. | OPPOSITE |
| D. | DRYER | | |
| DBL. | DOUBLE | | |
| DEPT. | DEPARTMENT | | |
| D.F. | DOUGLAS FIR | PERF. | PERFORATED |
| DI. | DOWN | P.L.Y. | PLYWOOD |
| DN. | DOWN | PROJ. | PROJECT |
| DTL. | DETAIL | PROP. | PROPERTY |
| DW. | DISHWASHER | PTD. | PAINTED |
| DWG. | DRAWING | P.T. | PRESSURE TREATED |
| D.S. | DOWNSPOUT | | |
| (E) | EXISTING | (R) | REMODELED |
| EA | EACH | R | RISER |
| ELEV. | ELEVATION | R.C.P. | REFLECTED CEILING PLAN |
| ELEC. | ELECTRICAL | REF. | REFRIGERATOR |
| EQ. | EQUAL | REQD. | REQUIRED |
| EQUIP. | EQUIPMENT | RM. | ROOM |
| EST. | ESTIMATE | R.O. | ROUGH OPENING |
| EXH. | EXHAUST | R.O.W. | RIGHT OF WAY |
| EXT. | EXTERIOR | (RS) | REPLACEMENT SASH |
| | | S | SURFACED 4 SIDES |
| FA | FIRE ALARM | S.4.S. | SCHEDULE |
| FAU | FORCED AIR UNIT | S.D. | SMOKE DETECTOR |
| F.D. | FLOOR DRAIN | SEL | SELECT |
| FDN. | FOUNDATION | SHWR | SHOWER |
| F.F. | FINISH FLOOR | SM. | SIMILAR |
| FIN. | FINISH | SM. | SEWER MANHOLE |
| FIXT. | FIXTURE | SPEC | SPECIFICATION(S) |
| FLR. | FLOOR(ING) | SQ | SQUARE |
| FLUOR. | FLUORESCENT | SSD | SEE STRUCTURAL |
| F.O.C. | FACE OF CONCRETE | DRAWINGS | |
| F.O.F. | FACE OF FINISH | S.S. | STAINLESS STEEL |
| F.O.S. | FACE OF STUD | STD. | STANDARD |
| FT or (') | FEET OR FOOT | STL | STEEL |
| FV | FOUNDATION VENT | STOR | STORAGE |
| GA. | GAUGE | STRUC. | STRUCTURAL |
| GM | GAS METER | | |
| GALV. | GALVANIZED | T | TREAD |
| G.C. | GENERAL CONTRACTOR | T&G | TONGUE AND GROOVE |
| GFCI | GROUND FAULT CIRCUIT | TEL. | TELEPHONE |
| INTERRUPTER | | THRU. | THROUGH |
| G.S.M. | GALVANIZED SHEET METAL | T.O. | TOP OF |
| GWB. | GYPSON WALL BOARD | T.O.W. | TOP OF WALL |
| | | TV | TELEVISION |
| HB | HOSE BIB | TYP | TYPICAL |
| HDWR. | HARDWARE | | |
| HORIZ. | HORIZONTAL | U.O. | UNDERSIDE OF |
| HWD. | HARDWOOD | U.O.N. | UNLESS OTHERWISE NOTED |
| HT. | HEIGHT | | |
| H.W. | HOT WATER | VERT. | VERTICAL |
| | | V.I.F. | VERIFY IN FIELD |
| | | VS | VACANCY SENSOR |
| (I) | INSERT WINDOW | | |
| I.D. | INSIDE DIAMETER (DIM.) | W. | WEST |
| IN. OR (') | INCH | W/ | WITH |
| INCL. | INCLUDE | W/O | WITHOUT |
| INSUL. | INSULATION | W.C. | WATER CLOSET |
| INT. | INTERIOR | WD. | WOOD |
| | | W.H. | WATER HEATER |
| | | WP. | WATERPROOF |
| | | WMM | WATER METER MANHOLE |
| JT. | JOINT | | |

SYMBOLS/LEGEND

| | |
|--|------------------------------------|
| | WALL |
| | LINE BELOW |
| | LINE OVERHEAD OR HIDDEN |
| | (N) WALL |
| | DEMO WALL |
| | DEMO |
| | TO FACE OF FRAMING |
| | TO FACE OF FINISH |
| | PROPERTY LINE |
| | SETBACK |
| | ROOM NAME/NUMBER |
| | GENERIC NOTE |
| | ALIGNMENT NOTE |
| | STRUCTURAL LINE |
| | POINT ELEVATION |
| | ELEVATION HEIGHT MARKER |
| | ELEVATION INDICATOR |
| | INTERIOR ELEVATION INDICATOR |
| | BUILDING SECTION |
| | DETAIL SECTION |
| | DETAIL INDICATOR |
| | CONSTRUCTION ASSEMBLY |
| | REVISION SYMBOL |
| | CENTERLINE |
| | NEW WINDOW SASH IN (E) WINDOW JAMB |
| | NEW REPLACEMENT WINDOW OR DOOR |
| | NEW WINDOW OR DOOR |

DRAWING INDEX

| ID | Name |
|------|--|
| A0.1 | TITLE SHEET |
| A0.2 | T24 COMPLIANCE - MAIN HOUSE REMODEL |
| A0.3 | T24 COMPLIANCE - MAIN HOUSE REMODEL |
| A0.4 | T24 COMPLIANCE - ADU |
| A0.5 | T24 COMPLIANCE - ADU |
| A0.6 | MARIN CALGREEN CHECKLIST |
| A0.7 | MARIN CALGREEN CHECKLIST |
| A0.8 | CALGreen NOTES |
| A1.0 | VEGETATION MANAGEMENT PLAN |
| A1.0 | SITE PLAN |
| A1.2 | MAIN HOUSE - DEMO PLAN |
| A1.3 | MAIN HOUSE - FLOOR PLAN |
| A1.4 | ADU - FLOOR PLANS |
| A2.0 | (E) & (N) NORTH ELEVATION |
| A2.1 | (E) & (N) EAST ELEVATION |
| A2.2 | (E) & (N) SOUTH ELEVATION |
| A2.3 | (E) & (N) WEST ELEVATION |
| A3.0 | SECTIONS A, B & C |
| A3.1 | SECTIONS D & E |
| A3.2 | SECTIONS F, G & H |
| A5.1 | WINDOW DETAILS |
| A5.2 | DETAILS |
| A5.4 | ROOFING DETAILS |
| A7.1 | SELECTION SCHEDULE |
| A7.1 | WINDOW AND DOOR SCHEDULE |
| A8.1 | (N) MEP GROUND FLOOR PLAN - MAIN HOUSE |
| A8.2 | (N) MEP GROUND FLOOR PLAN - ADU |
| S1.0 | STRUCTURAL NOTES |
| S2.1 | FLOOR FRAMING/FOUNDATION PLAN |
| S2.2 | ROOF FRAMING PLAN |
| S2.3 | ADU STRUCTURAL PLANS |
| S3.1 | CONCRETE DETAILS |
| S3.2 | CONCRETE DETAILS |
| S4.1 | TYPICAL FRAMING DETAILS |
| S4.2 | FRAMING DETAILS |

PARCEL MAP

LOCATION MAP

building Lab

design / construction / fabrication

www.buildinglab.com

HANKE RESIDENCE

230 OCEAN PARKWAY
BOLINAS, CA 94924

APN: 191-161-05

Owner

JOHN AND HOLLY HANKE
230 OCEAN PARKWAY
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T: 510-520-6651

Designed / Prepared

BUILDING LAB INC.
MARCO HYMAN-ROMERO
999 43RD ST.
OAKLAND, CA 94608
E: Marco@buildinglab.com
T: 775-450-3085

issue

BLDG. PERMIT 24.06.26

R1 RESPONSE 24.10.04

R2 RESPONSE 24.12.18

issue

date

drawn by

checked by

TITLE SHEET

sheet no.

A0.1

| RESIDENTIAL MEASURES SUMMARY | | | | | | | | | | RMS-1 | |
|--|--|--|--|---|--|------------------|--|--------------------|--|---------------------|--|
| Project Name Ocean Parkway Remodel | | Building Type | | <input checked="" type="checkbox"/> Single Family <input type="checkbox"/> Addition Alone | | Date | | 6/24/2024 | | | |
| Project Address 230 Ocean Parkway Bolinas | | California Energy Climate Zone CA Climate Zone 03 | | Total Cond. Floor Area 2,321 | | Addition | | 0 | | # of Units 1 | |
| INSULATION | | | | | | | | | | | |
| Construction Type | | Cavity | | Area (ft ²) | | Special Features | | Status | | | |
| Floor Wood Framed w/Steel Space | | - no insulation | | 2,321 | | Existing | | Existing | | | |
| Wall Wood Framed | | - no insulation | | 324 | | Existing | | Existing | | | |
| Wall Wood Framed | | - no insulation | | 308 | | Existing | | Existing | | | |
| Wall Wood Framed | | - no insulation | | 405 | | Existing | | Existing | | | |
| Wall Wood Framed | | - no insulation | | 311 | | Existing | | Existing | | | |
| Roof Wood Framed Attic | | R-11 | | 2,285 | | Existing | | Existing | | | |
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| FENESTRATION | | | | | | | | | | | |
| Orientation | | Area(ft ²) | | Total Area | | 720 | | Glazing Percentage | | 31.0% | |
| U-Fac | | SHGC | | Overhang | | Sidelights | | Exterior Shades | | Status | |
| Front (SB) | | 220.1 | | 0.300 | | 0.35 | | none | | N/A | |
| Left (SW) | | 163.8 | | 0.300 | | 0.35 | | none | | N/A | |
| Rear (NW) | | 139.3 | | 0.300 | | 0.35 | | none | | N/A | |
| Right (NE) | | 160.9 | | 0.300 | | 0.35 | | none | | N/A | |
| Daylight | | 38.6 | | 0.300 | | 0.35 | | none | | N/A | |
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| HVAC SYSTEMS | | | | | | | | | | | |
| Qty. | | Min. Eff | | Cooling | | Min. Eff | | Thermostat | | Status | |
| 1 | | Combined Hydronic | | see DMF | | No Cooling | | 14.0 SEER | | Setback Existing | |
| | | | | | | | | | | | |
| HVAC DISTRIBUTION | | | | | | | | | | | |
| Location | | Heating | | Cooling | | Duct Location | | Duct R-Value | | Status | |
| HVAC System | | Radiant Floor | | Ductless | | N/A | | N/A | | Existing | |
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| WATER HEATING | | | | | | | | | | | |
| Qty. | | Type | | Gallons | | Min. Eff | | Distribution | | Status | |
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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Ocean Parkway ADU
Calculation Date/Time: 2024-06-20T12:56:20-07:00
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| GENERAL INFORMATION | | | | | | | | | | | |
|---------------------|---------------------------------|--|----------------------------|----|-----------------------------------|--|---------------|--|--|--|--|
| 01 | Project Name | | Ocean Parkway ADU | | | | | | | | |
| 02 | Run Title | | Title 24 Analysis | | | | | | | | |
| 03 | Project Location | | 230 Ocean Parkway | | | | | | | | |
| 04 | City | | Bollinas | 05 | Standards Version | | 2022 | | | | |
| 06 | Zip code | | 94924 | 07 | Software Version | | EnergyPro 9.3 | | | | |
| 08 | Climate Zone | | 3 | 09 | Front Orientation (deg/ Cardinal) | | 135 | | | | |
| 10 | Building Type | | Single family | 11 | Number of Dwelling Units | | 1 | | | | |
| 12 | Project Scope | | Addition and/or Alteration | 13 | Number of Bedrooms | | 1 | | | | |
| 14 | Addition Cond. Floor Area (ft²) | | 61 | 15 | Number of Stories | | 1 | | | | |
| 16 | Existing Cond. Floor Area (ft²) | | 587 | 17 | Fenestration Average U-factor | | 0.3 | | | | |
| 18 | Total Cond. Floor Area (ft²) | | 648 | 19 | Glazing Percentage (%) | | 30.71% | | | | |
| 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 | Building does not incorporate Special Features |

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| OPAQUE SURFACES | | | | | | | | | | | |
|------------------|---------------------------------------|-----------------------|---------|-------------|------------------|----------------------------|------------|-----------------|----------|-----------------------------|--|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | |
| Name | Zone | Construction | Azimuth | Orientation | Gross Area (ft²) | Window and Door Area (ft²) | Tilt (deg) | Wall Exceptions | Status | Verified Existing Condition | |
| Front Wall | Existing Living Area | R-0 Wall | 135 | Front | 152 | 0 | 90 | none | Existing | No | |
| Left Wall | Existing Living Area | R-0 Wall | 225 | Left | 168 | 0 | 90 | none | Existing | No | |
| Rear Wall | Existing Living Area | R-0 Wall | 315 | Back | 224 | 22 | 90 | none | Existing | No | |
| Right Wall | Existing Living Area | R-0 Wall | 45 | Right | 168 | 136 | 90 | none | Existing | No | |
| Front Wall 2 | New Living Area | R-15 Wall | 135 | Front | 72 | 20 | 90 | Extension | New | n/a | |
| Left Wall 2 | New Living Area | R-15 Wall | 225 | Left | 48 | 0 | 90 | Extension | New | n/a | |
| Right Wall 2 | New Living Area | R-15 Wall | 45 | Right | 48 | 21 | 90 | Extension | New | n/a | |
| Interior Surface | New Living Areas>Existing Living Area | R-0 Wall1 | n/a | n/a | 72 | 0 | n/a | | New | n/a | |
| Roof | Existing Living Area | R-11 Roof Attic | n/a | n/a | 587 | n/a | n/a | | Existing | No | |
| Roof 2 | New Living Area | R-30 Roof Attic | n/a | n/a | 61 | n/a | n/a | | New | n/a | |
| Raised Floor | Existing Living Area | R-0 Floor Crawlspace | n/a | n/a | 587 | n/a | n/a | | Existing | No | |
| Raised Floor 2 | New Living Area | R-19 Floor Crawlspace | n/a | n/a | 61 | n/a | n/a | | New | n/a | |

| ATTIC | | | | | | | | | | |
|----------------------------|--------------------------------|------------|---------------------|------------------|----------------|-----------------|-----------|----------|-----------------------------|--|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | |
| Name | Construction | Type | Roof Rise (x in 12) | Roof Reflectance | Roof Emittance | Radiant Barrier | Cool Roof | Status | Verified Existing Condition | |
| Attic Existing Living Area | Attic RoofExisting Living Area | Ventilated | 3 | 0.1 | 0.85 | No | No | Existing | No | |
| Attic New Living Area | Attic RoofNew Living Area | Ventilated | 3 | 0.1 | 0.85 | Yes | No | New | n/a | |

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| WATER HEATING SYSTEMS | | | | | | | | | | | |
|-----------------------|--------------------------|-------------------|-------------------|-----------------|----------------------|----------------------|-------------------|-----------------------|--------|-----------------------------|-------------------------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |
| Name | System Type | Distribution Type | Water Heater Name | Number of Units | Solar Heating System | Compact Distribution | HERS Verification | Water Heater Name (H) | Status | Verified Existing Condition | Existing Water Heating System |
| DHW Sys 1 | Domestic Hot Water (DHW) | Standard | DHW Heater 1 | 1 | n/a | None | n/a | DHW Heater 1 (1) | New | NA | |

| WATER HEATERS | | | | | | | | | | | | | | |
|---------------|----------------------|------------------------|------------|-----------------|-------------------------|------------|------------------|-----------------------------------|------------------------------|-----------------------------|---------------|--------|-----------------------------|----|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 |
| Name | Heating Element Type | Tank Type | # of Units | Tank Vol. (gal) | Heating Efficiency Type | Efficiency | Rated Input Type | Tank Insulation R-value (Int/Ext) | Standby Loss or Recovery Eff | 1st Hc. Rating or Flow Rate | Tank Location | Status | Verified Existing Condition | |
| DHW Heater 1 | Gas | Consumer Instantaneous | 1 | 0 | UEF | 0.93 | Btu/Hr | 200000 | 0 | n/a | n/a | New | n/a | |

| WATER HEATING - HERS VERIFICATION | | | | | | | 07 |
|-----------------------------------|-----------------|-----------------|----------------------|---------------------------|-----------------------|----------------------------------|----|
| 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 | 10 | 11 | 12 |
| Name | System Type | Heating Unit Name | Heating Equipment Count | Cooling Unit Name | Cooling Equipment Count | Fan Name | Distribution Name | Required Thermostat Type | Status | Verified Existing Condition | Existing HVAC System |
| HVAC System1 | Heating and cooling system other | Heating Component 1 | 1 | Cooling Component 1 | 1 | n/a | n/a | Setback | New | No | |

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| 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 | 0 | 75.06 | 0 | 76.31 | 0 | -1.25 |
| Space Cooling | 0 | 21.75 | 0 | 20.3 | 0 | 1.45 |
| IAQ Ventilation | 0 | 0 | 0 | 0 | 0 | 0 |
| Water Heating | 0 | 50.09 | 0 | 45.47 | 0 | 4.62 |
| Self Utilization/Flexibility Credit | | | | 0 | | 0 |
| Efficiency Compliance Total | 0 | 146.9 | 0 | 142.08 | 0 | 4.82 |
| Photovoltaics | 0 | | 0 | | | |
| Battery | | | | 0 | | |
| Flexibility | | | | | | |
| Indoor Lighting | 0 | 10.61 | 0 | 10.61 | | |
| Appl. & Cooking | 0 | 48.42 | 0 | 48.42 | | |
| Plug Loads | 0 | 58.96 | 0 | 58.96 | | |
| Outdoor Lighting | 0 | 2.05 | 0 | 2.05 | | |
| TOTAL COMPLIANCE | 0 | 266.94 | 0 | 262.12 | | |

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| FENESTRATION / GLAZING | | | | | | | | | | | | | | | |
|------------------------|--------|--------------|-------------|---------|------------|-------------|-------|------------|----------|-----------------|------|-------------|------------------|---------|-----------------------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| Name | Type | Surface | Orientation | Azimuth | Width (ft) | Height (ft) | Mult. | Area (ft²) | U-factor | U-factor Source | SHGC | SHGC Source | Exterior Shading | Status | Verified Existing Condition |
| 23N | Window | Rear Wall | Back | 315 | | | 1 | 22 | 0.3 | NFRC | 0.35 | NFRC | Bug Screen | Altered | No |
| Door 13N | Window | Right Wall | Right | 45 | | | 1 | 136 | 0.3 | NFRC | 0.35 | NFRC | Bug Screen | Altered | No |
| Door 14N | Window | Front Wall 2 | Front | 135 | | | 1 | 20 | 0.3 | NFRC | 0.35 | NFRC | Bug Screen | New | NA |
| 21N | Window | Right Wall 2 | Right | 45 | | | 1 | 21 | 0.3 | NFRC | 0.35 | NFRC | Bug Screen | New | NA |

| 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-0 Wall | Exterior Walls | Wood Framed Wall | 2x4 @ 16 in. O. C. | R-0 | None / None | 0.361 | Inside Finish: Gypsum Board Cavity / Frame: no insul. / 2x4 Exterior Finish: 3 Coat Stucco |
| R-15 Wall | Exterior Walls | Wood Framed Wall | 2x4 @ 16 in. O. C. | R-15 | None / None | 0.095 | Inside Finish: Gypsum Board Cavity / Frame: R-15 / 2x4 Exterior Finish: 3 Coat Stucco |
| R-0 Wall1 | Interior Walls | Wood Framed Wall | 2x4 @ 16 in. O. C. | R-0 | None / None | 0.277 | Inside Finish: Gypsum Board Cavity / Frame: no insul. / 2x4 Other Side Finish: Gypsum Board |
| Attic RoofExisting Living Area | Attic Roofs | Wood Framed Ceiling | 2x4 @ 24 in. O. C. | R-0 | None / 0 | 0.644 | Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: no insul. / 2x4 |

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| HVAC - HEATING UNIT TYPES | | | | |
|---------------------------|------------------|-----------------|--------------------|--------------------|
| 01 | 02 | 03 | 04 | 05 |
| Name | System Type | Number of Units | Heating Efficiency | Heating Unit Brand |
| Heating Component 1 | Gas wall furnace | 1 | AFUE - 75 | n/a |

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| ENERGY USE INTENSITY | | | | |
|----------------------|---------------------------------|---------------------------------|-----------------------------------|-------------------|
| | Standard Design (kBtu/ft² - yr) | Proposed Design (kBtu/ft² - yr) | Compliance Margin (kBtu/ft² - yr) | Margin Percentage |
| Gross EU1 | 51.61 | 50.57 | 1.04 | 2.02 |
| Net EU1 | 51.61 | 50.57 | 1.04 | 2.02 |

Notes
1. Gross EU1 is Energy Use Total (not including PV) / Total Building Area.
2. Net EU1 is Energy Use Total (including PV) / Total Building Area.

REQUIRED SPECIAL FEATURES
The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis.
• NO SPECIAL FEATURES REQUIRED

| 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 |
| Ocean Parkway ADU | 648 | 1 | 1 | 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 |
| Existing Living Area | Conditioned | HVAC System1 | 587 | 8 | DHW Sys 1 | Existing Unchanged |
| New Living Area | Conditioned | HVAC System1 | 61 | 8 | DHW Sys 1 | New |

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| 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 |
| Attic RoofNew Living Area | Attic Roofs | Wood Framed Ceiling | 2x4 @ 24 in. O. C. | R-0 | None / 0 | 0.644 | Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Siding/sheathing/decking C |

MARIN COUNTY GREEN BUILDING FORM
STANDARDS FOR SINGLE-FAMILY RENOVATIONS 750 SQUARE FEET OR MORE

The provisions of this checklist apply to projects where the cumulative scope of the permitted work is 750 square feet or more. These green building standards have been established to ensure that single-family residential (one- and two-family dwellings and townhouses) undergoing renovations (like additions and alterations) in Marin County are healthy for occupants, have limited impact on the environment, reduce demand for energy, and result in cost savings from building operations. Requirements were adopted November 2022 and enforced starting January 1, 2023, ending December 31, 2025. The three-step process below helps applicants understand and comply with the County's green building requirements. Please reference [Title 19.04 and 19.07 of the Marin County Building Code](#) to comply.

GREEN BUILDING PROJECT PROCESS

- PROJECT DESIGN**
It is important for project owners, architects, engineers, and designers to understand the applicable state and local green building requirements prior to project design. Early consideration of these standards allows for design of buildings and systems that are compliant, energy efficient, and cost effective, and minimize back and forth.
- PLANNING APPLICATION (IF REQUIRED)**
If your project is subject to planning review, be prepared to identify in your planning application what compliance methods you've selected and how you plan to meet the requirements. If you anticipate difficulties meeting the requirements outlined in the Green Building Checklist, these concerns and any requests for exemptions should be identified in your planning application.
- INITIAL BUILDING PERMIT SUBMITTAL**
All the following MUST be included with your initial application for a building permit:
 - Completed [Marin County Green Building Checklist](#) (page 2-9)
 - Completed [Marin County CALGreen Tier 1 Checklist](#) (pages 4-15), with plan sheet references where applicable.
 - Completed [Marin County Energy Checklist](#) (unless exempt, pages 16-22)
 - Energy Code compliance documents as required under State Energy Code

DEFINITION OF "NEW CONSTRUCTION"
Removal or substantial modification of more than 75 percent of the linear sum of a building's exterior walls for each story shall be considered demolition of the building. County of Marin Development Code Chapter 22.130.030, triggering the new construction requirements. If your renovation (addition and alteration) project meets this definition, please see the guide for new construction.

FOR PROJECTS SUBMITTED ON OR AFTER JANUARY 1, 2023 1

A4.106.2 Site Development (ELECTIVE) – Postconstruction landscape designs accomplish one or more of the following (check at least one):

- Areas disrupted during construction are restored to be consistent with native vegetation species and patterns.
- Utilize 75 percent of native California or drought tolerant plant and tree species appropriate for the climate zone region.

A4.106.6 Site Development (ELECTIVE) – Install a vegetated roof for at least 50 percent of roof area and shall comply with requirements for roof gardens and landscaped roofs in California Building Code, Chapter 15-16.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) N/A

A4.106.7 Site Development (ELECTIVE) – Reduce rooftop heat islands for 50 percent of sidewalks, patios, driveways or other paved areas by using one or more of the methods listed.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) N/A

A4.106.9 Site Development (ELECTIVE) – Provide bicycle parking facilities as noted below or meet a local ordinance as per section A4.106.9.1, A4.106.9.2, or A4.106.9.3
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) N/A

A4.306.1 Innovative Concepts and Local Environmental Conditions (ELECTIVE)
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) N/A

DIVISION 4.2 ENERGY EFFICIENCY

☒ All measures marked as **(MANDATORY)** are required unless not in project scope.
☒ Use the Checkboxes (8) to mark as Completed, Not Applicable (N/A), or the measure selected.

COMPLETE ENERGY CHECKLIST (MANDATORY) Building meets or exceeds the energy efficiency, electric readiness, and electrification requirements illustrated in the [Marin County Energy Checklist](#) (page 16) and in accordance with [Marin County Building Code, Chapter 19.04.130](#) which amends Title 24, part 6 of the California Building Energy Efficiency Standards.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) T1.1

FOR PROJECTS SUBMITTED ON OR AFTER JANUARY 1, 2023 7

A4.407.6 Water Resistance and Moisture Management (ELECTIVE) – Exterior doors to the dwelling are protected to prevent water intrusion.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) N/A

A4.407.7 Water Resistance and Moisture Management (ELECTIVE) – A permanent overhang or awning at least 2 feet in depth is provided.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) N/A

A4.411.1 Innovative Concepts and Local Environmental Conditions (ELECTIVE)
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) N/A

DIVISION 4.5 ENVIRONMENTAL QUALITY

☒ All measures marked as **(MANDATORY)** are required unless not in project scope.
☒ For all measures marked as **(ELECTIVE)**, a minimum of ONE **ELECTIVE** measure must be selected for this division.
☒ Use the Checkboxes (8) to mark as Completed, Not Applicable (N/A), or the measure selected.

4.503.1 Fireplaces (MANDATORY) – Any installed gas fireplace shall be a direct-vent sealed-combustion type. Any installed woodstove or pellet stove shall comply with the 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 in accordance with [Marin County Building Code, Chapter 19.08](#).
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) N/A

4.504.1 Pollutant Control (MANDATORY) – Duct openings and other related air distribution component openings shall be covered during construction.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) T24.6

4.504.2.1 Pollutant Control (MANDATORY) – Adhesives, sealants and caulks shall be compliant with VOC and other toxic compound limits.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) T24.6

4.504.2.2 Pollutant Control (MANDATORY) – Paints, stains and other coatings shall be compliant with VOC limits.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) T24.6

FOR PROJECTS SUBMITTED ON OR AFTER JANUARY 1, 2023 13

MARIN COUNTY GREEN BUILDING CHECKLIST
STANDARDS FOR SINGLE-FAMILY RENOVATIONS 750 SQUARE FEET OR MORE

PROJECT ADDRESS: 230 Ocean Parkway, Bolinas, CA
APN: 191-161-05 APPLICANT NAME: Marco Hyman-Romero

- GREEN BUILDING AND EV READINESS**
 - Complete this Marin County Green Building Checklist AND [CALGreen Tier 1 Checklist](#).
 - VERIFICATION:** Checklists must be signed by a qualified building professional, such as an architect, engineer, or a qualified green building professional and attached to your application.
- ENERGY EFFICIENCY AND ELECTRIFICATION** (Check One of the Following)
 - Complete the [Marin County Energy Checklist](#).
 - VERIFICATION:** Checklist must be signed by a qualified building professional, such as an architect, engineer, or a qualified green building professional and attached to your application.
 - Newer Vintage Building Exemption (Constructed on or after January 1, 2011).
 - VERIFICATION:** Provide evidence of the original permit date for construction of your building
 - All-Electric Exemption
Proposed design includes ALL the following: All-electric end uses, no natural gas, and no electric resistance space or water heat. Gas meters or propane infrastructure are not allowed, except that infrastructure is not required to be removed after being capped.
- LOW CARBON CONCRETE** (Check One of the Following)
 - Permit application includes completed Cement or Embodied Carbon limit compliance forms that can be found on the [County's Low-Carbon Concrete Requirements](#) webpage.
 - VERIFICATION:** Compliance forms must be signed re-submitted after completion of poured concrete along with batch (proof) receipts.
 - Not applicable; the project does not include pouring new concrete.

4. PROJECT VERIFICATION
This form and all references herein have been completed by Marco Hyman-Romero (name) of building Lab (company), the party responsible for this building permit application for the above listed project who affirms under penalty of perjury that it accurately represents the project plans. Applicant still must complete the CALGreen Tier 1 Checklist, Energy Checklist, and/or Low Carbon Concrete form, as applicable.

Marco Hyman-Romero 6/25/24
Signature Date
Marco Hyman-Romero
Name (Please Print)

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DIVISION 4.3 WATER EFFICIENCY AND CONSERVATION
☒ All measures marked as **(MANDATORY)** are required unless not in project scope.
☒ For all measures marked as **(ELECTIVE)**, a minimum of TWO **ELECTIVE** measures must be selected.
☒ Use the Checkboxes (8) to mark as Completed, Not Applicable (N/A), or the measure selected.

4.303.1 Indoor Water Use (MANDATORY) Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) installed in residential buildings shall comply with the prescriptive requirements of Sections 4.303.1.1 through 4.303.1.4.5.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) T24.6

4.303.1.4.3 Indoor Water Use (MANDATORY) – Metering fixtures in residential buildings shall not deliver more than 0.2 gallons per cycle.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) N/A

4.303.2 Indoor Water Use (MANDATORY) – Submeters for multifamily building and dwelling units in mixed-use residential-commercial buildings. Submeters shall be installed to measure water usage of individual rental dwelling units in accordance with the California Plumbing Code.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) N/A

4.303.3 Indoor Water Use (MANDATORY) – Plumbing fixtures and fittings required in Section 4.303.1 shall be installed in accordance with the California Plumbing Code and shall meet the applicable referenced standards.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) T24.6

4.303.4 Outdoor Water Use (MANDATORY) – Residential developments shall comply with local water efficient landscape ordinance or the current California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) T24.6

4.305.1 Water Reuse Systems (MANDATORY) – Newly constructed residential developments, where disinfected treated recycled water is available from a municipal source to a construction site, may be required to have recycled water supply systems installed, allowing the use of recycled water for residential landscape irrigation systems.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) N/A

A4.303.1 Indoor Water Use (ELECTIVE) – The maximum flow rate of kitchen faucets shall not exceed 1.5 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 1.5 gallons per minute at 60 psi. Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) N/A

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4.504.2.3 Pollutant Control (MANDATORY) – Aerial paints and coatings shall be compliant with product weighted MHW Limits for VOC and other toxic compounds.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) T24.6

4.504.2.4 Pollutant Control (MANDATORY) – Documentation shall be provided to verify that compliant VOC limit finish materials have been used.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) T24.6

4.504.3 Pollutant Control (MANDATORY) – Carpets and carpet systems shall be compliant with VOC limits.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) T24.6

4.504.4 Pollutant Control (MANDATORY) – 80 percent of floor area receiving resilient flooring shall comply with specified VOC criteria.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) T24.6

4.504.5 Pollutant Control (MANDATORY) – Particleboard, medium density fiberboard (MDF), and hardwood plywood used in interior finish systems shall comply with low formaldehyde emission standards.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) T24.6

A4.504.2 Pollutant Control (MANDATORY) – Install VOC compliant resilient flooring systems. Ninety (90) percent of floor area receiving resilient flooring shall comply with the VOC-emission limits established in section A4.504.2.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) T24.6

A4.504.3 Pollutant Control (MANDATORY) – Thermal insulation installed in the building shall be in compliance with VOC limits.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) T24.6

4.505.2 Interior Moisture Control (MANDATORY) – Vapor retarder and capillary break is installed at slab on grade foundations.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) T24.6

4.505.3 Interior Moisture Control (MANDATORY) – Moisture control of building materials used in wall and floor framing is checked before enclosure.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) T24.6

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- 5. SUMMARIZING ENERGY END USE (CHECK BOXES AND INPUT VALUES):**
- ☐ Total Conditioned Floor Area within the Project Scope 2,969 square feet
- SELECT either the Performance or Prescriptive-based Compliance Pathway below and submit appropriate documentation as requested (Check One of the Following):
- ☐ For projects using the Performance Based Pathway to Compliance, submit data extract in .xml format from the 2022 Energy Code Compliance Software (CEBCC or EnergyPro)
- ☐ For projects using the Prescriptive Based Pathway to Compliance (Check One of the Following):
- ☐ Submit data extract in .xml format from the 2022 Energy Code Compliance Software (CEBCC or EnergyPro), OR
- ☐ If Energy Code Compliance Software was not used, please select the following measures planned for installation in Table 1 below, within the scope of your project (check all that apply):

| Table 1: Measures and Appliances Installed | | | |
|--|---|--------------------------|---|
| Check All That Apply | Measures Installed | Check All That Apply | Measures Installed |
| <input type="checkbox"/> | Air Sealing | <input type="checkbox"/> | Heat Pump Water Heater, High Efficiency, NEEA Tier 3 |
| <input type="checkbox"/> | Cool Roof | <input type="checkbox"/> | Hot water pipe and tank insulation, low-flow fixtures |
| <input type="checkbox"/> | Duct Sealing | <input type="checkbox"/> | Induction Cooktop |
| <input type="checkbox"/> | Exterior Photoselector | <input type="checkbox"/> | LED lamp vs CFL |
| <input type="checkbox"/> | Heat Pump Dryer | <input type="checkbox"/> | New Ducts |
| <input type="checkbox"/> | Heat Pump HVAC | <input type="checkbox"/> | R-49 Attic Insulation |
| <input type="checkbox"/> | Heat Pump HVAC, High Efficiency, SEER 21 or greater; HSPF 11 or greater | <input type="checkbox"/> | Solar PV _____ kW DC |
| <input type="checkbox"/> | Heat Pump Water Heater | <input type="checkbox"/> | Battery (storage) _____ kWh |
| <input type="checkbox"/> | Other (please describe): | | |

VERIFICATION: Compliance will be verified by 1) submitting 2022 Energy Code Compliance Software data extract (.xml) and attaching Title 24 Energy Reports that comply with State minimum energy code, OR 2) completing Table 1 above.

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A4.305.3 Indoor Water Use (ELECTIVE) – Alternate water sources for nonpotable applications. Alternate nonpotable water sources are used for indoor potable water reduction. Alternate nonpotable water sources shall be installed in accordance with the California Plumbing Code.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) N/A

A4.305.3 Indoor Water Use (ELECTIVE) – Install at least one qualified ENERGY STAR dishwasher or clothes washer.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) T24.6

A4.305.4 Indoor Water Use (ELECTIVE) – Nonwater urinals and waterless toilets are installed.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) N/A

A4.403.2 Indoor Water Use (ELECTIVE) – One- and two-family dwellings shall be equipped with a demand hot water recirculation system.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) T24.6

A4.304.1 Outdoor Water Use (ELECTIVE) – A rainwater capture system is designed and installed.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) N/A

A4.304.2 Outdoor Water Use (ELECTIVE) – A landscape design is installed that eliminates the use of potable water.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) N/A

A4.304.3 Outdoor Water Use (ELECTIVE) – For new water service connections, landscaped irrigated areas less than 5,000 square feet shall be provided with separate submeters or metering devices for outdoor potable water use.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) N/A

A4.305.1 Water Reuse Systems (ELECTIVE) – Piping is installed to permit future use of a graywater irrigation system served by the clothes washer or other fixtures.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) N/A

A4.305.2 Water Reuse Systems (ELECTIVE) – Recycled water piping is installed.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) N/A

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4.506.1 Indoor Air Quality and Exhaust (MANDATORY) – Each bathroom shall be provided with the following:

- ENERGY STAR fans ducted to terminate outside the building.
- Fans must be controlled by a humidity control (Separate or built-in). OR Functioning as a component of a whole-house ventilation system.
- Humidity controls with manual or automatic means of adjustment, capable of adjustment between a relative humidity range of 50 percent to a maximum of 80 percent.

Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) T24.6

4.507.2 Environmental Comfort (MANDATORY) – Dust systems are sized, designed, and equipment is selected using the following methods:

- Establish heat loss and heat gain values according to ANSI/ACCA 2 Manual J-2016 or equivalent.
- Size duct systems according to ANSI/ACCA 1 Manual D – 2015 or equivalent.
- Select heating and cooling equipment according to ANSI/ACCA 3 Manual S-2014 or equivalent.

Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) N/A

A4.504.1 Pollutant Control (ELECTIVE) – Use composite wood products made with either California Air Resources Board approved no-added formaldehyde (NAF) resins or ultra-low emitting formaldehyde (ULEF) resins.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) N/A

A4.506.2 Indoor Air Quality and Exhaust (ELECTIVE) – Provide filters on return air openings rated MERV 8 or higher during construction when it is necessary to use HVAC equipment.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) T24.6

A4.506.3 Indoor Air Quality and Exhaust (ELECTIVE) – Direct-vent appliances shall be used when equipment is located in conditioned space, or the equipment must be installed in an isolated mechanical room.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) T24.6

A4.509.1 Innovative Concepts and Local Environmental Conditions (ELECTIVE)
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) N/A

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MARIN COUNTY CALGREEN TIER 1 CHECKLIST
STANDARDS FOR SINGLE-FAMILY RENOVATIONS 750 SQUARE FEET OR MORE

This checklist is effective January 1, 2023 and applies to additions and alterations of one- and two-family dwellings and townhouses with attached private garages.

The provisions of this checklist apply to projects where the cumulative scope of the permitted work being added to or altered is 750 square feet or more. Existing site and landscaping improvements that are not otherwise disturbed are not subject to CALGreen.

Submit this CALGreen Tier 1 checklist accompanied with the [Marin County Green Building Checklist](#) (page 2 above) with your plans to demonstrate compliance with the green building ordinance. This checklist includes modifications specific to Marin County. For more information on the County's Green Building requirements, please visit [www.marincgreenguilding.org](#)

For more information on CALGreen and complete measure language, see [Marin County Building Code, Chapter 19.04.130, Subchapter 2](#) which requires (with amendments) CALGreen [Chapters 4](#) and [Appendix A.4](#).

PROJECT DETAILS

230 Ocean Parkway, Bolinas, CA 191-161-05
Project Address APN
Marco Hyman-Romero
Applicant Name (Please Print)

PROJECT VERIFICATION
The green building professional¹ has reviewed the plans and certifies that the mandatory and elective measures listed below are hereby incorporated into the project plans and will be implemented into the project in accordance with the requirements set forth in the 2022 California Green Building Standards Code as amended by the County of Marin.

Marco Hyman-Romero 6/25/24
Signature Date
Marco Hyman-Romero
Name (Please Print)

¹ A qualified building professional can be an architect, engineer, contractor, or qualified green building professional, such as a CALGreen Special Inspector or LEED AP.
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A4.305.3 Water Reuse Systems (ELECTIVE) – Recycled water is used for landscape irrigation.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) N/A

A4.306.1 Innovative Concepts and Local Environmental Conditions (ELECTIVE) – Items that address innovative concepts or local environmental conditions.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) N/A

DIVISION 4.4 MATERIAL CONSERVATION & RESOURCE EFFICIENCY
☒ All measures marked as **(MANDATORY)** are required unless not in project scope.
☒ For all measures marked as **(ELECTIVE)**, a minimum of TWO **ELECTIVE** measures must be selected.
☒ Use the Checkboxes (8) to mark as Completed, Not Applicable (N/A), or the measure selected.

A4.403.2 Foundation Systems (MANDATORY) – Cement used in foundation mix design is reduced in accordance with [Marin County Building Code, Chapter 19.07 – Carbon Concrete Requirements](#). Select one Pathway and submit the appropriate compliance forms during Plan Review AND for Final Inspection:

- Cement Limit Pathway
- For Plan Review: [Design Team \(Structural Engineer/Architect\) Low Carbon Concrete Compliance Form](#)
- For Final Inspection: [Contractor Low Carbon Concrete Cement Compliance Form](#) accompanied by batch receipts from ready-mix supplier

A4.403.3 Foundation Systems (ELECTIVE) – Frost protected foundation systems is designed and constructed.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) N/A

A4.403.4 Foundation Systems (ELECTIVE) – Frost protected foundation systems is designed and constructed.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) N/A

A4.403.5 Material Sources (MANDATORY) – Postconsumer or preconsumer recycled content value (RCV) materials are used on the project, not less than a 10 percent recycled content value.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) T24.6

4.406.1 Enhanced Durability and Reduced Maintenance (MANDATORY) – Annular spaces around pipes, electric cables, conduits, or other openings in plates at exterior walls shall be protected against the passage of rotors by closing such openings with cement mortar, concrete masonry or similar method acceptable to the enforcing agency.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) T24.6

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MARIN COUNTY ENERGY CHECKLIST
STANDARDS FOR SINGLE-FAMILY RENOVATIONS 750 SQUARE FEET OR MORE

This checklist is effective January 1, 2023 and applies to additions and alterations of one- and two-family dwellings and townhouses being added to or altered when the cumulative square footage of the project is 750 square feet or more.

Submit this checklist accompanied with the [Green Building Checklist](#) with your plans to demonstrate compliance with the green building ordinance.

PROJECT DETAILS

230 Ocean Parkway, Bolinas 191-161-05
Project Address APN
Marco Hyman-Romero
Applicant Name (Please Print)

PROJECT VERIFICATION
The green building professional¹ has reviewed the plans and certifies that the measures indicated in this form are incorporated into the project plans and will be implemented into the project in accordance with the requirements set forth in the 2022 California Energy Code as amended by the County of Marin.

Marco Hyman-Romero 6/25/24
Signature Date
Marco Hyman-Romero
Name (Please Print)

¹ A qualified building professional can be an architect, engineer, contractor, or qualified green building professional, such as a CALGreen Special Inspector or LEED AP.
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DIVISION 4.1 PLANNING AND DESIGN
☒ All measures marked as **(MANDATORY)** are required unless not in project scope.
☒ For all measures marked as **(ELECTIVE)**, a minimum of TWO **ELECTIVE** measures must be selected.
☒ Use the Checkboxes (8) to mark as Completed, Not Applicable (N/A), or the measure selected.

4.106.2 (MANDATORY) A plan is developed and implemented to manage stormwater runoff from the construction activities through compliance with the [County of Marin's Stormwater Runoff Pollution Prevention Ordinance](#).
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) N/A

4.106.3 (MANDATORY) Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) N/A

A4.106.2.3 (MANDATORY) Displaced topsoil shall be stockpiled for reuse in a designated area and covered or protected from erosion.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) N/A

A4.106.4 (MANDATORY) Permeable paving is utilized for not less than 20 percent of the total parking, walking, or patio surfaces.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) N/A

A4.106.5 (MANDATORY) Roofing materials shall have a minimum 3-year aged solar reflectance and thermal emittance or a minimum Solar Reflectance Index (SRI) equal to or greater than the values specified in Tables A4.106.5.1(3).
In Marin County, this measure does not apply to low-rise residential. This measure applies only to high-rise residential buildings, hotels, and motels with a roof slope >12:12.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) N/A

A4.106.8.1 (MANDATORY) For one- and two-family dwellings and townhouses with attached private garages, if the project scope includes an upgrade of the electrical service panel, install a dedicated 208/240-volt branch circuit, including an overcurrent protective device rated at least 60 amperes minimum per dwelling unit for future EV charging, in accordance with [CALGreen Measure A4.106.8.1 Tier 1 and Tier 2](#).
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) N/A

A4.103.1 Site Selection (ELECTIVE) – A site which complies with at least one of the following characteristics (check at least one):

- Infill
- Greyfield
- EPA-recognized Brownfield

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4.408.1 Construction Waste Reduction, Disposal and Recycling (MANDATORY) – Recycle and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition waste in accordance with the reporting standards outlined by [Zero Waste Matters](#).
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) T24.6

A4.408.1 Construction Waste Reduction, Disposal and Recycling (MANDATORY) – Construction waste generated at the site is diverted to recycle or salvage in compliance with at least a 65 percent reduction. Any mixed recyclables that are sent to mixed-waste recycling facilities shall include a qualified third party verified facility average diversion rate. Verification of diversion rates shall meet minimum certification eligibility guidelines, acceptable to the local enforcing agency.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) T24.6

4.410.1 Building Maintenance and Operation (MANDATORY) – An operation and maintenance manual shall be provided to the building occupants or owner.
Completed ☐ N/A ☐ [Plan sheet reference \(if applicable\):](#) T24.6

4.410.2 Building Maintenance and Operation (MANDATORY) – Where 5 or more multifamily dwelling units are constructed on a building site, provide readily accessible areas that serve all buildings on the site and is identified for depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance if more

4. SUMMARY OF RESULTS (from Table 2 Above)

Complete a, b., and c. listed below in Table 3. Summary of Results.

| Table 3. Summary of Results | |
|--------------------------------------|---|
| a. | 6 Target Score (from Table 2, Step 2 where CZ 2 = 8 points and CZ 3 = 6 points) |
| b. | 12 Total Points Claimed (from Table 2, Step 6) |
| c. | 0 Subtract line a from line b. (must be greater than or equal to 0 to comply) |
| *You have completed your application | |

5. LIST OF MEASURE SPECIFICATIONS

| Table 4. List of Measure Specifications | |
|---|---|
| ID | Measure Specification |
| Energy Measures | |
| E1 | Lighting Measures – Replace all interior and exterior screw-in incandescent, halogen, and compact fluorescent lamps with LED lamps. Install photocell controls on all exterior lighting luminaires. |
| E2 | Water Heating Package: Add exterior insulation meeting a minimum of R-6 to existing storage water heaters. Insulate all accessible hot water pipes with pipe insulation a minimum of 1/2 inch thick. This includes insulating the supply pipe leaving the water heater, piping to faucets underneath sinks, and accessible pipes in attic spaces or crawlspaces. Upgrade fittings in sinks and showers to meet current California Green Building Standards Code (Title 24, Part 11) Section 4.303 water efficiency requirements. Exception 1: Water heater blanket is not required on water heaters less than 20 gallons. Exception 2: Water heater blanket not required if application of a water heater blanket voids the warranty on the water heater. Exception 3: Upgraded fixtures are not required if existing fixtures have rated or measured flow rates of no more than ten percent greater than 2022 California Green Building Standards Code (Title 24, Part 11) Section 4.303 water efficiency requirements. Exception 4: Water heaters with factory installed insulation of R-24 or greater |
| E3 | Air Sealing: Seal all accessible cracks, holes, and gaps in the building envelope at walls, floors, and ceilings. Pay special attention to penetrations including plumbing, electrical, and mechanical vents, recessed can light luminaires, and windows. Weather-strip doors if not already present. Verification shall be conducted following a prescriptive checklist that outlines which building aspects need to be addressed by the permit applicant and verified by an inspector. Compliance can also be demonstrated with blower door testing conducted by a certified HERS Rater no more than three years prior to the permit application date that either: a) shows at least a 30 percent reduction from pre-retrofit conditions; or b) shows that the number of air changes per hour at 50 Pascals pressure difference (ACH50) does not exceed ten. If combustion appliances are located within the pressure boundary of the building, conduct a combustion safety test by a professional certified by the Building Performance Institute in accordance with the ANSI/BPI-1200-S-2017 Standard Practice for Basic Analysis of Buildings ¹ , the Whole House Combustion Appliance Safety Test Procedure for the Comfortable Home Rebates Program 2020 or the California Community Services and Development Combustion Appliance Safety Testing Protocol. |

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| | |
|---|---|
| E4 | R-49 Attic Insulation: Attic insulation shall be installed to achieve a weighted assembly U-factor of 0.020 or insulation installed at the ceiling level shall have a thermal resistance of R-49 or greater for the insulation alone. Recessed downlight luminaires in the ceiling shall be covered with insulation to the same depth as the rest of the ceiling. Luminaires not rated for insulation contact must be replaced or fitted with a fire-proof cover that allows for insulation to be installed directly over the cover. Exception: In buildings where existing R-30 is present and existing recessed downlight luminaires are not rated for insulation contact, insulation is not required to be installed over the luminaires. |
| E5 | Duct Sealing: Air seal all space conditioning ductwork to meet the requirements of the 2022 Title 24 Section 150.2(b)(1)E. The duct system must be tested by a HERS Rater no more than three years prior to the Covered Single Family Project permit application date to verify the duct sealing and confirm that the requirements have been met. This measure may not be combined with the New Ducts and Duct Sealing measure in this Table. |
| E6 | New Ducts + Duct Sealing: Replace existing space conditioning ductwork with new R-8 ducts that meet the requirements of 2022 Title 24 Section 150.0(m)(1). This measure may not be combined with the Duct Sealing measure in this Table. To qualify, a preexisting measure must have been installed no more than three years before the Covered Single Family Project permit application date. |
| E7 | Windows: Replace all existing windows with high performance windows with an area-weighted average U-factor no greater than 0.32. |
| E8 | R-13 Wall Insulation: Install wall insulation in all exterior walls to achieve a weighted U-factor of 0.102 or install wall insulation in all exterior wall cavities that shall result in an installed thermal resistance of R-13 or greater for the insulation alone. |
| Fuel Substitution Measures | |
| FS1 | Heat Pump Water Heater (HPWH): Replace all existing electric resistance and natural gas storage water heaters with heat pump water heaters. |
| FS2 | High Efficiency Heat Pump Water Heater (HPWH): Replace all existing electric resistance and natural gas storage water heaters with heat pump water heaters with a Northwest Energy Efficiency Alliance (NEEA) Tier 3 or higher rating. |
| FS3 | HVAC Heat Pump: Replace all existing gas space heating system and existing electric resistance heating systems with electric heat pump systems. |
| FS4 | High Efficiency HVAC Heat Pump: Replace all existing gas space heating system and existing electric resistance heating systems with electric heat pump systems with a SEER rating of 21 or greater and an HSPF rating of 11 or greater. |
| FS5 | Heat Pump Clothes Dryer: Replace all existing gas and electric resistance clothes dryers with heat pump dryers with no resistance element and cap the gas lines. |
| FS6 | Induction Cooktop: Replace all existing gas and electric resistance stove tops with inductive stove tops and cap the gas lines. |
| Solar PV and Electric-Readiness Measures | |
| ER1 | PV+ Electric Ready Pre-Wire: For New PV Systems: Install a new solar PV system that meets the requirements of 2022 Title 24 Section 150.1(c)(1)F and upgrade the service panel to meet the requirements of ER2.G. and install any two of the other measures from ER2.A – ER2.F. For Existing PV Systems: If the home already has an existing PV system that meets the requirements above, to claim credit for this measure, ER1, upgrade the service panel to |

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| | |
|-----|--|
| | meet the requirements of ER2.G. and install any two of the other measures from ER2.A – ER2.F. |
| ER2 | Electric Readiness Measures: The size of the system may be reduced to the maximum allowable under NEM requirements. To claim credit for Item ER1, in addition to the solar PV system installed, upgrade the panelboard to meet the requirements of Item ER2.G and install any two of the other measures ER2.A – ER2.F, below to allow for installation of electric appliances at a future date. If the service panel is being upgraded, install any two of the other measures below: If the laundry room is being remodeled, comply with Item ER2.D and upgrade the panelboard to meet the requirements of Item ER2.G. If the kitchen is being remodeled, comply with Item ER2.C and upgrade the service panel to meet the requirements of Item ER2.G. A. Heat Pump Water Heater Ready, as specified in Section 150.0(n)(1). B. Heat Pump Space Heater Ready, as specified in Section 150.0(u). C. Electric Cooktop Ready, as specified in Section 150.0(v). D. Electric Clothes Dryer Ready, as specified in Section 150.0(v). E. Energy Storage Systems (ESS) Ready, as specified in Section 150.0(p). F. EV Charger Ready: Install a listed raceway for an EV charger, that meets the requirements of the California Green Building Standards Code (Title 24, Part 11) Section 44.16(b.5, 1, Tier 1 and 2, which otherwise applies to new construction. G. Upgrade the panelboard serving the individual dwelling to either: (i) a minimum 200 amp panel with a minimum 225 amp busbar rating to accommodate future connection of electric appliances, including heat pump water heaters, heat pump space heaters, electric cooktops, electric clothes dryers as specified in California Energy Code Section 150.0 (n), (l), (u) and (v) and Level 2 electric vehicle supply equipment, or, (ii) provide electrical load calculations and appliance specifications for serving all of these end-uses with a minimum 100-amp panel. Exception: If an electrical permit is not otherwise required for the project other than compliance with this Item, ER2. |

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| Table 5. Climate Zone by Zip Code | | | |
|-----------------------------------|--------------|-----------------|--------------|
| Marin Zip Codes | Climate Zone | Marin Zip Codes | Climate Zone |
| 94901 | 2 | 94917 | 2 |
| 94903 | 2 | 94948 | 2 |
| 94904 | 2 | 94949 | 2 |
| 94912 | 2 | 94960 | 3 |
| 94913 | 2 | 94962 | 2 |
| 94914 | 2 | 94966 | 3 |
| 94915 | 2 | 94967 | 2 |
| 94920 | 3 | 94960 | 2 |
| 94924 | 3 | 94963 | 2 |
| 94925 | 3 | 94964 | 2 |
| 94929 | 3 | 94965 | 3 |
| 94930 | 2 | 94966 | 3 |
| 94933 | 3 | 94970 | 3 |
| 94937 | 3 | 94971 | 3 |
| 94938 | 3 | 94973 | 2 |
| 94939 | 2 | 94974 | 2 |
| 94940 | 3 | 94976 | 3 |
| 94941 | 3 | 94977 | 3 |
| 94942 | 3 | 94978 | 2 |
| 94945 | 2 | 94979 | 2 |
| 94946 | 2 | 94988 | 2 |

If the climate zone can't be found using Table 5, visit and use the [California Energy Commission climate zone tool finder](#).

FOR PROJECTS SUBMITTED ON OR AFTER JANUARY 1, 2023

22

building Lab

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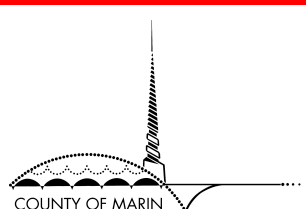
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| △ R1 RESPONSE | | 24.10.04 |
| △ R2 RESPONSE | | 24.12.18 |

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MARIN CALGREEN
CHECKLIST

sheet no.

A0.7



Reviewed for Code Compliance
As Verified by Field Inspection
Permit Number: 178617
Date: 2/6/2025

2022 CALGREEN MANDATORY MEASURES NOTES

A4.106.2.3 DISPLACED TOPSOIL SHALL BE STOCKPILED FOR REUSE IN A DESIGNATED AREA AND COVERED OR PROTECTED FROM EROSION.

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 ATER 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.

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 FOLLOWINGS:

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.

4.303.1 INDOOR WATER USE PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) INSTALLED IN RESIDENTIAL BUILDINGS SHALL COMPLY WITH THE PRESCRIPTIVE REQUIREMENTS OF SECTIONS 4.303.1.1 THROUGH 4.303.1.4.5.

4.303.1 INDOOR WATER USE PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) INSTALLED IN RESIDENTIAL BUILDINGS SHALL COMPLY WITH THE FOLLOWING PRESCRIPTIVE REQUIREMENTS

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 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.

4.303.1.4.1 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 80 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.

4.303.3 INDOOR WATER USE PLUMBING FIXTURES AND FITTINGS REQUIRED IN SECTION 4.303.1 SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE AND SHALL MEET THE APPLICABLE REFERENCED STANDARDS.

4.303.3 INDOOR WATER USE PLUMBING FIXTURES AND FITTINGS REQUIRED IN SECTION 4.303.1 SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE AND SHALL MEET THE APPLICABLE REFERENCED STANDARDS.

A4.303.3 INDOOR WATER USE INSTALL AT LEAST ONE QUALIFIED ENERGY STAR DISHWASHER OR CLOTHES WASHER.

A4.303.5 INDOOR WATER USE - ONE- AND TWO-FAMILY DWELLINGS SHALL BE EQUIPPED WITH A DEMAND HOT WATER RECIRCULATION SYSTEM.

A4.405.3 MATERIAL SOURCES - POSTCONSUMER OR PRECONSUMER RECYCLED CONTENT VALUE (RCV) MATERIALS ARE USED ON THE PROJECT, NOT LESS THAN A 10 PERCENT RECYCLED CONTENT VALUE.

4.406.1 ENHANCED DURABILITY AND REDUCED MAINTENANCE. 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.

4.408.1 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING. RECYCLE AND/OR SALVAGE FOR REUSE A MINIMUM OF 65 PERCENT OF THE NONHAZARDOUS CONSTRUCTION AND DEMOLITION WASTE IN ACCORDANCE WITH THE REPORTING STANDARDS OUTLINED BY ZERO WASTE MARIN.

A4.408.1 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING - CONSTRUCTION WASTE GENERATED AT THE SITE IS DIVERTED TO RECYCLE OR SALVAGE IN COMPLIANCE WITH AT LEAST A 65 PERCENT REDUCTION. ANY MIXED RECYCLABLES THAT ARE SENT TO MIXED-WASTE RECYCLING FACILITIES SHALL INCLUDE A QUALIFIED THIRD PARTY VERIFIED FACILITY AVERAGE DIVERSION RATE. VERIFICATION OF DIVERSION RATES SHALL MEET MINIMUM CERTIFICATION ELIGIBILITY GUIDELINES, ACCEPTABLE TO THE LOCAL ENFORCING AGENCY.

4.410.1 OPERATION AND MAINTENANCE MANUAL. AN OPERATION AND MAINTENANCE MANUAL SHALL BE PROVIDED TO THE BUILDING OCCUPANT OR OWNER.

4.504.1 POLLUTANT CONTROL. DUCT OPENINGS AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED DURING CONSTRUCTION.

4.504.2.1 POLLUTANT CONTROL. ADHESIVES, SEALANTS AND CAULKS SHALL BE COMPLIANT WITH VOC AND OTHER TOXIC COMPOUND LIMITS.

4.504.2.2 POLLUTANT CONTROL. PAINTS, STAINS AND OTHER COATINGS SHALL BE COMPLIANT WITH VOC LIMITS.

4.504.2.3 POLLUTANT CONTROL. AEROSOL PAINTS AND COATINGS SHALL BE COMPLIANT WITH PRODUCT WEIGHTED MIR LIMITS FOR ROC AND OTHER TOXIC COMPOUNDS.

4.504.2.4 POLLUTANT CONTROL. DOCUMENTATION SHALL BE PROVIDED TO VERIFY THAT COMPLIANT VOC LIMIT FINISH MATERIALS HAVE BEEN USED.

4.504.3 POLLUTANT CONTROL. CARPET AND CARPET SYSTEMS SHALL BE COMPLIANT WITH VOC LIMITS.

4.504.4 POLLUTANT CONTROL. 80 PERCENT OF FLOOR AREA RECEIVING RESILIENT FLOORING SHALL COMPLY WITH SPECIFIED VOC CRITERIA.

4.504.5 POLLUTANT CONTROL. PARTICLEBOARD, MEDIUM DENSITY FIBERBOARD (MDF), AND HARDWOOD PLYWOOD USED IN INTERIOR FINISH SYSTEMS SHALL COMPLY WITH LOW FORMALDEHYDE EMISSION STANDARDS.

A4.504.2 POLLUTANT CONTROL. INSTALL VOC COMPLIANT RESILIENT FLOORING SYSTEMS. NINETY (90) PERCENT OF FLOOR AREA RECEIVING RESILIENT FLOORING SHALL COMPLY WITH THE VOC-EMISSION LIMITS ESTABLISHED IN SECTION A4.504.2.

A4.504.3 POLLUTANT CONTROL. THERMAL INSULATION INSTALLED IN THE BUILDING SHALL BE IN COMPLIANCE WITH VOC LIMITS.

4.505.2 INTERIOR MOISTURE CONTROL. VAPOR RETARDER AND CAPILLARY BREAK IS INSTALLED AT SLAB ON GRADE FOUNDATIONS.

4.505.3 INTERIOR MOISTURE CONTROL. MOISTURE CONTENT OF BUILDING MATERIALS USED IN WALL AND FLOOR FRAMING IS CHECKED BEFORE ENCLOSURE.

4.506.1 INDOOR AIR QUALITY AND EXHAUST. EACH BATHROOM SHALL BE PROVIDED WITH THE FOLLOWING:

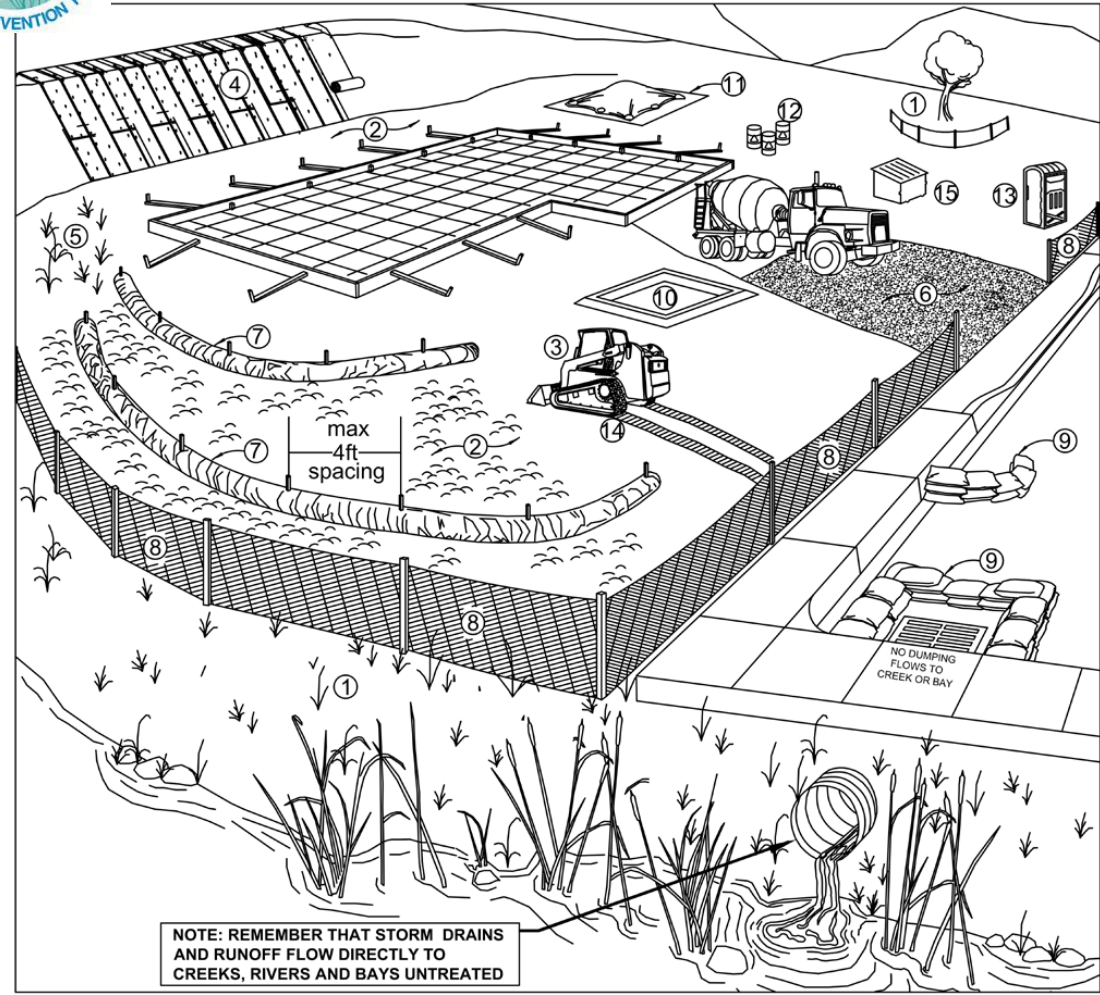
1. ENERGY STAR FANS DUCTED TO TERMINATE OUTSIDE THE BUILDING.
2. FANS MUST BE CONTROLLED BY A HUMIDITY CONTROL (SEPARATE OR BUILT-IN); OR FUNCTIONING AS A COMPONENT OF A WHOLE-HOUSE VENTILATION SYSTEM.
3. HUMIDITY CONTROLS WITH MANUAL OR AUTOMATIC MEANS OF ADJUSTMENT, CAPABLE OF ADJUSTMENT BETWEEN A RELATIVE HUMIDITY RANGE OF ≤ 50 PERCENT TO A MAXIMUM OF 80 PERCENT.

A4.506.2 INDOOR AIR QUALITY AND EXHAUST. PROVIDE FILTERS ON RETURN AIR OPENINGS RATED MERV 8 OR HIGHER DURING CONSTRUCTION WHEN IT IS NECESSARY TO USE HVAC EQUIPMENT

A4.506.3 INDOOR AIR QUALITY AND EXHAUST. DIRECT-VENT APPLIANCES SHALL BE USED WHEN EQUIPMENT IS LOCATED IN CONDITIONED SPACE; OR THE EQUIPMENT MUST BE INSTALLED IN AN ISOLATED MECHANICAL ROOM



Marin County Stormwater Pollution Prevention Program
Minimum Control Measures
For Small Construction Projects



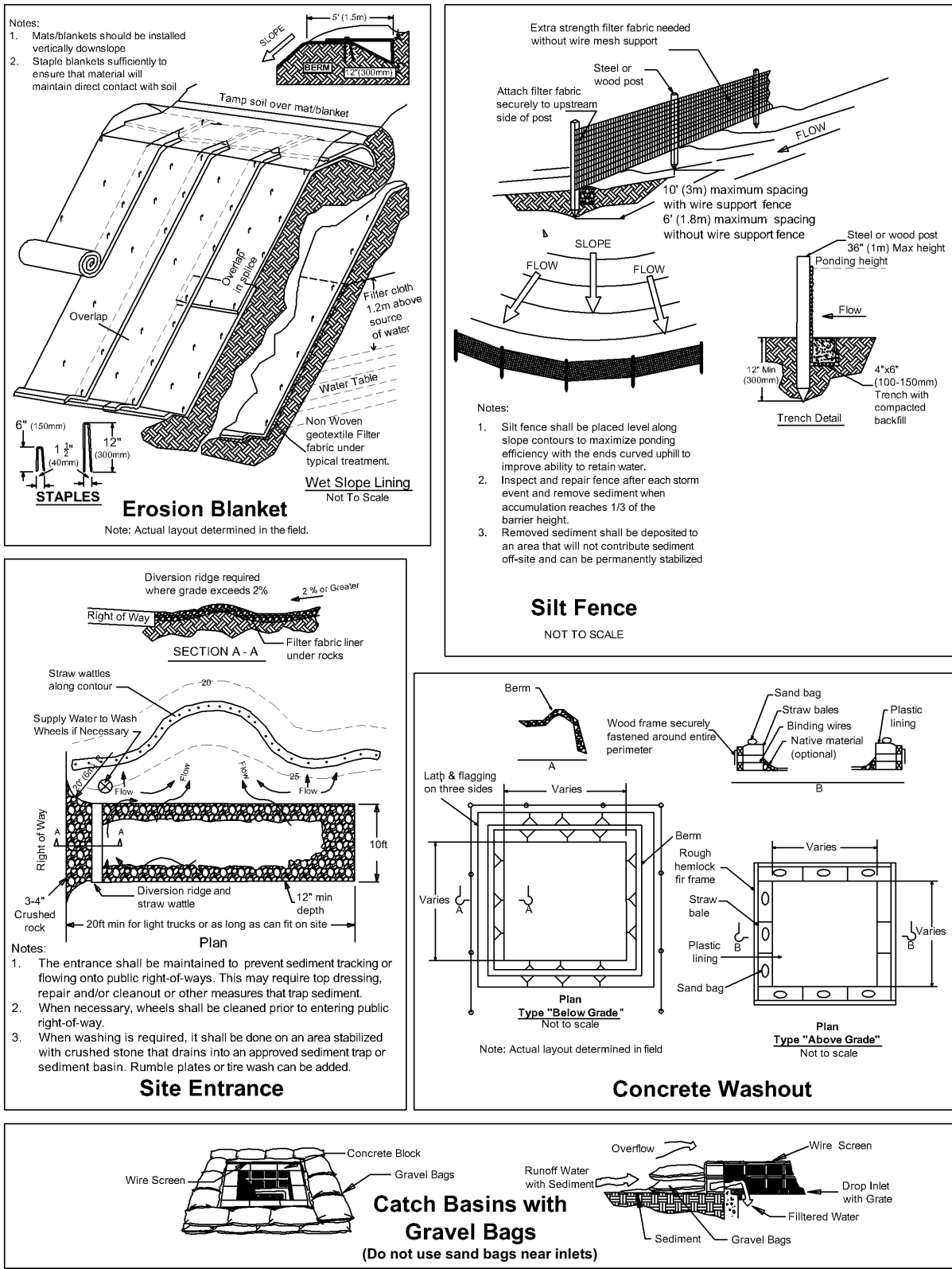
| Erosion Controls | Sediment Controls | Good Housekeeping |
|--|---------------------------|---------------------------------------|
| NS: Scheduling | 6. Tracking Controls | 10. Concrete Washout |
| 1. Preserve Vegetation & Creek Set Backs | 7. Fiber Rolls | 11. Stockpile Management |
| 2. Soil Cover | 8. Silt Fence | 12. Hazardous Material Management |
| 3. Soil Preparation/ Roughening | 9. Drain Inlet Protection | 13. Sanitary Waste Management |
| 4. Erosion Control Blankets | NS: Trench Dewatering | 14. Equipment and Vehicle Maintenance |
| 5. Revegetation | | 15. Litter and Waste Management |

NS=not shown on graphic

Note: Select an effective combination of control measures from each category. Erosion Control, Sediment Control, and Good Housekeeping. Control measures shall be **continually implemented and maintained throughout the project** until activities are complete, disturbed areas are stabilized with permanent erosion controls, and the local agency has signed off on permits that may have been required for the project. **Inspect and maintain the control measures** before and after rain events, and as required by the local agency or state permit.

More detailed information on the BMPs can be found in the related California Stormwater Quality Association (CASQA) and California Department of Transportation (Caltrans) BMP Factsheets. CASQA factsheets are available by subscription in the California Best Management Practices Handbook Portal: Construction at <http://www.casqa.org>. Caltrans factsheets are available in the Construction Site BMP Manual March 2003 at <http://www.dot.ca.gov/hq/construct/stormwater/manuals.htm>. Visit www.msclopp.org for more information on construction site management and Erosion and Sediment Control Plans.

If you require materials in alternative formats, please contact:
415-473-4381 voice/TTY or disabilityaccess@co.marin.ca.us



| Control Measure | General Description |
|--|---|
| Erosion Control Best Management Practices | |
| N/A | Scheduling Plan the project and develop a schedule showing each phase of construction. Schedule construction activities to reduce erosion potential, such as scheduling ground disturbing activities during the summer and phasing projects to minimize the amount of area disturbed. <i>For more info see the following factsheets:</i> CASQA: EC-1; or Caltrans: SS-1. |
| 1 | Preserve Existing Vegetation and Creek Setbacks Preserve existing vegetation to the extent possible, especially along creek buffers. Show creek buffers on maps and identify areas to be preserved in the field with temporary fencing. Check with the local Planning and Public Works Departments for specific creek setback requirements. <i>For more info see the following factsheets:</i> CASQA: EC-2; or Caltrans: SS-2. |
| 2 | Soil Cover Cover exposed soil with straw mulch and tackifier (or equivalent). <i>For more info see the following factsheets:</i> CASQA: EC-3; EC-4; EC-5; EC-6; EC-7; EC-8; EC-14; EC-16; or Caltrans: SS-2; SS-4; SS-5; SS-7; SS-8. |
| 3 | Soil Preparation/ Roughening Soil preparation is essential to vegetation establishment and BMP installation. It includes soil testing and amendments to promote vegetation growth as well as roughening surface soils by mechanical methods (decomposing, scarifying, stair stepping, etc.). <i>For more info see the following factsheets:</i> CASQA: EC-15. |
| 4 | Erosion Control Blankets Install erosion control blankets (or equivalent) on disturbed sites with 3:1 slopes or steeper. Use wide-friendly blankets made of biodegradable natural materials. Avoid using blankets made with plastic netting or fixed aperture netting. See: http://www.coastal.ca.gov/npa/Villde-Friendly_Products.pdf . <i>For more info see the following factsheets:</i> CASQA: EC-7; or Caltrans: SS-7. |
| 5 | Revegetation Re-vegetate areas of disturbed soil or vegetation as soon as practical. <i>For more info see the following factsheets:</i> CASQA: EC-4; or Caltrans: SS-4. |
| Sediment Control Best Management Practices | |
| 6 | Tracking Controls Stabilize site entrance to prevent tracking soil offsite. Inspect streets daily and sweep street as needed. Require vehicles and workers to use stabilized entrance. Place crushed rock 12-inches deep over a geotextile, using angular rock between 4 and 6-in. Make the entrance as long as can be accommodated on the site, ideally long enough for 2 revolutions of the maximum tire size (15-20 feet long for most light trucks). Make the entrance wide enough to accommodate the largest vehicle that will access the site, ideally 10 feet wide with sufficient radii for turning in and out of the site. Run tire pads or rumble rocks can be used in lieu of or in conjunction with rock entrances. Wheel washes may be needed where space is limited or where the site entrance and sweeping is not effective. <i>For more info see the following factsheets:</i> CASQA: TC-1; TC-3; or Caltrans: TC-1; TC-3. |
| 7 | Fiber Rolls Use fiber rolls as a perimeter control measure, along contours of slopes, and around soil stockpiles. On slopes space rolls 10 to 20 feet apart (using closer spacing on steeper slopes). Install parallel to contour. If more than one roll is used in a row overlap roll do not abut. J-hook end of roll upslope. Install rolls per either Type 1 (stake rolls into shallow trenches) or Type 2 (stake in front and behind roll and lash with rope). Use wide-friendly fiber rolls made of biodegradable natural materials. Avoid using fiber rolls made with plastic netting or fixed aperture netting. See: http://www.coastal.ca.gov/npa/Villde-Friendly_Products.pdf . Manufactured linear sediment control or compost socks can be used in lieu of fiber rolls. <i>For more info see the following factsheets:</i> CASQA: SE-5 (Type 1); SE-12; SE-13; or Caltrans: SC-5 (Type 1 and Type 2). |
| 8 | Silt Fence Use silt fence as a perimeter control measure, and around soil stockpiles. Install silt fence along contours. Key silt fence into the soil and stake. Do not use silt fence for concentrated water flows. Install fence at least 3 feet back from the slope to allow for sediment storage. Wire backed fence can be used for extra strength. Avoid installing silt fence on slopes because they are hard to maintain. Manufactured linear sediment control can be used in lieu of silt fences. <i>For more info see the following factsheets:</i> CASQA: SE-1; SE-12; or Caltrans: SC-1. |
| 9 | Drain Inlet Protection Use gravel bags, (or similar product) around drain inlets located both onsite and in gutter as a last line of defense. Bags should be made of a woven fabric resistant to photo-degradation filled with 0.5-1-in washed crushed rock. Do not use sand bags or silt fence fabric for drain inlet protection. <i>For more info see the following factsheets:</i> CASQA: SE-10; or Caltrans: SC-10. |
| N/A | Trench Dewatering Follow MCSOPPP BMPs for trench dewatering. http://www.marincounty.org/deptsw/development/mcsoppp/development-media/Files/Departments/PW/mcsoppp/development/TrenchingSW/Rea/MCSOPPPFinal_0.pdf . <i>For more info see the following factsheets:</i> CASQA: NS-2; or Caltrans: NS-2. |
| Good Housekeeping Best Management Practices | |
| 10 | Concrete Washout Construct a lined concrete washout site away from storm drains, waterbodies, or other drainages. Ideally, place adjacent to stabilized entrance. Clean as needed and remove at end of project. <i>For more info see the following factsheets:</i> CASQA: WM-5; or Caltrans: WM-5. |
| 11 | Stockpile Management Cover all stockpiles and landscape material and berm properly with fiber rolls or sand bags. Keep behind the site perimeter control and away from waterbodies. <i>For more info see the following factsheets:</i> CASQA: WM-3; or Caltrans: WM-3. |
| 12 | Hazardous Material Management Hazardous materials must be kept in closed containers that are covered and within secondary containment; do not place containers directly on soil. <i>For more info see the following factsheets:</i> CASQA: WM-6; or Caltrans: WM-6. |
| 13 | Sanitary Waste Management Place portable toilets near stabilized site entrance, behind the curb and away from gutters, storm drain inlets, and waterbodies. Tie or stake portable toilets to prevent tipping and secure units with overliep pathway (most vendors provide ties). <i>For more info see the following factsheets:</i> CASQA: WM-9; or Caltrans: WM-9. |
| 14 | Equipment and Vehicle Maintenance Prevent equipment fluid leaks onto ground by placing drip pans or plastic trays under equipment. Immediately clean up any spills or drips. <i>For more info see the following factsheets:</i> CASQA: NS-8; NS-9; and NS-10; or Caltrans: NS-8; NS-9; and NS-10. |
| 15 | Litter and Waste Management Designate waste collection areas on site. Use watertight dumpsters and trash cans; inspect for leaks. Cover at the end of each work day and when it is raining or windy. Arrange for regular waste collection. Pick up site litter daily. <i>For more info see the following factsheets:</i> CASQA: WM-5; or Caltrans: WM-5. |

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issue

BLDG. PERMIT 24.06.26

△ R1 RESPONSE 24.10.04

△ R2 RESPONSE 24.12.18

issue

date

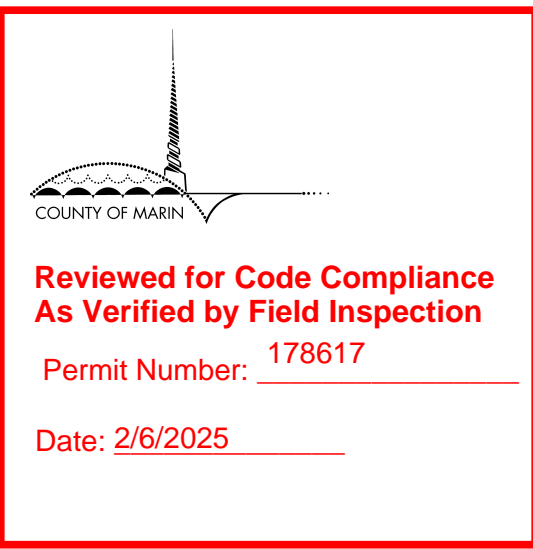
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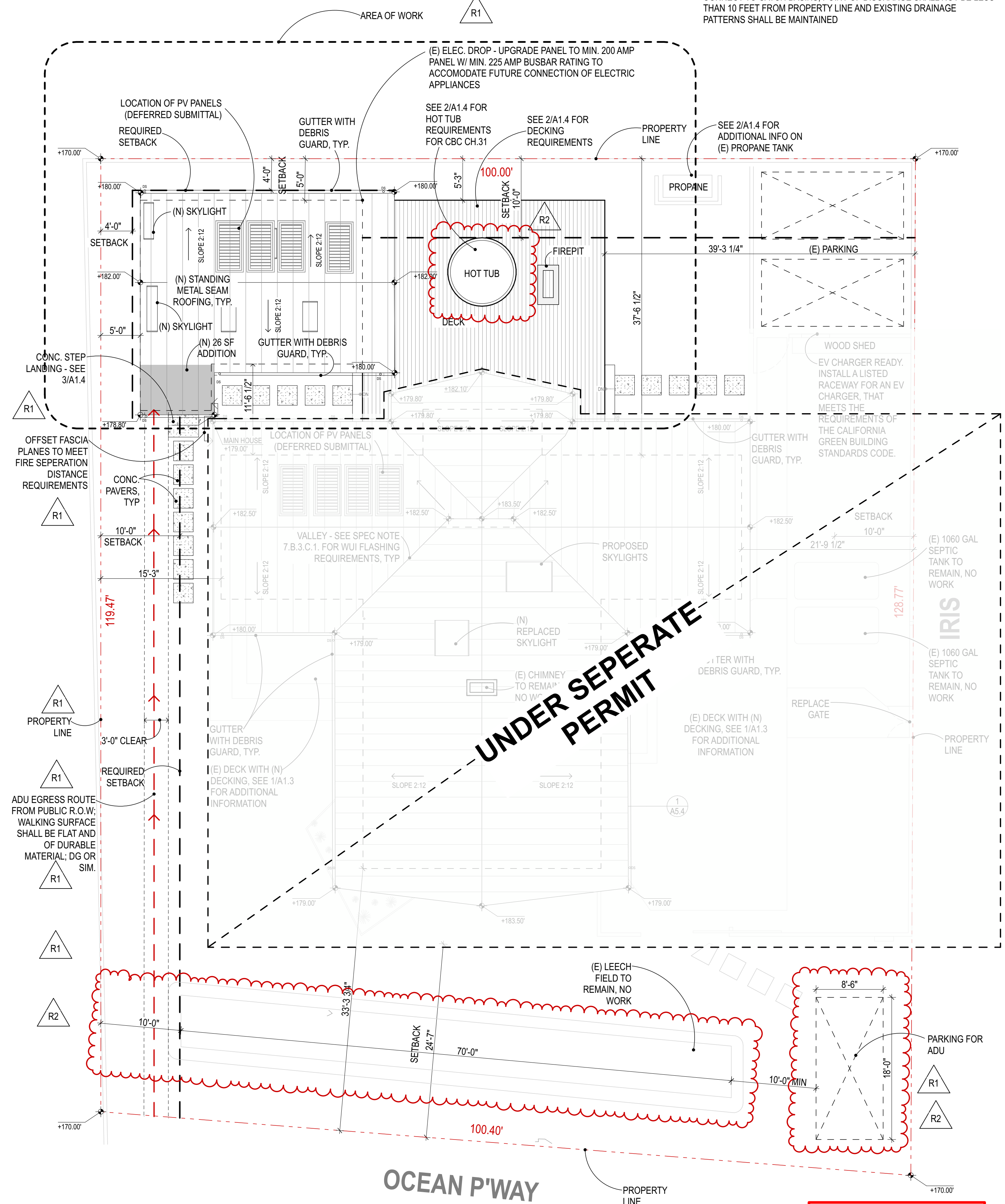
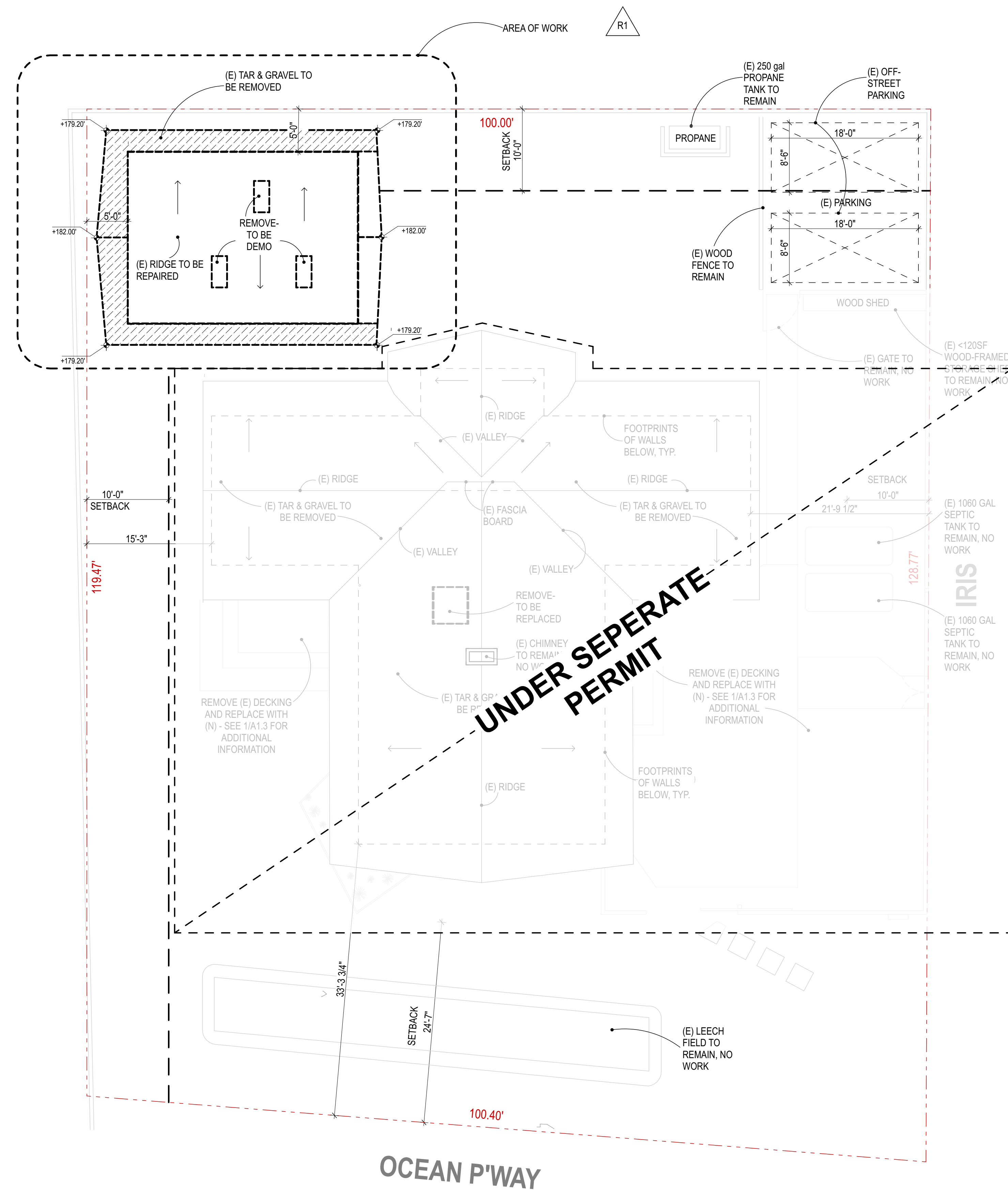
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CALGreen NOTES

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SITE PLAN NOTES:
1. SLOPE EXISTING GROUND MIN. 5% AWAY FROM BUILDING FOUNDATIONS.
2. NEW DOWNSPOUTS SHALL DISPERSE ON SPLASH BLOCKS OR CONNECT TO CATCH BASINS, POINT OF DISCHARGE SHALL NOT BE LESS THAN 10 FEET FROM PROPERTY LINE AND EXISTING DRAINAGE PATTERNS SHALL BE MAINTAINED

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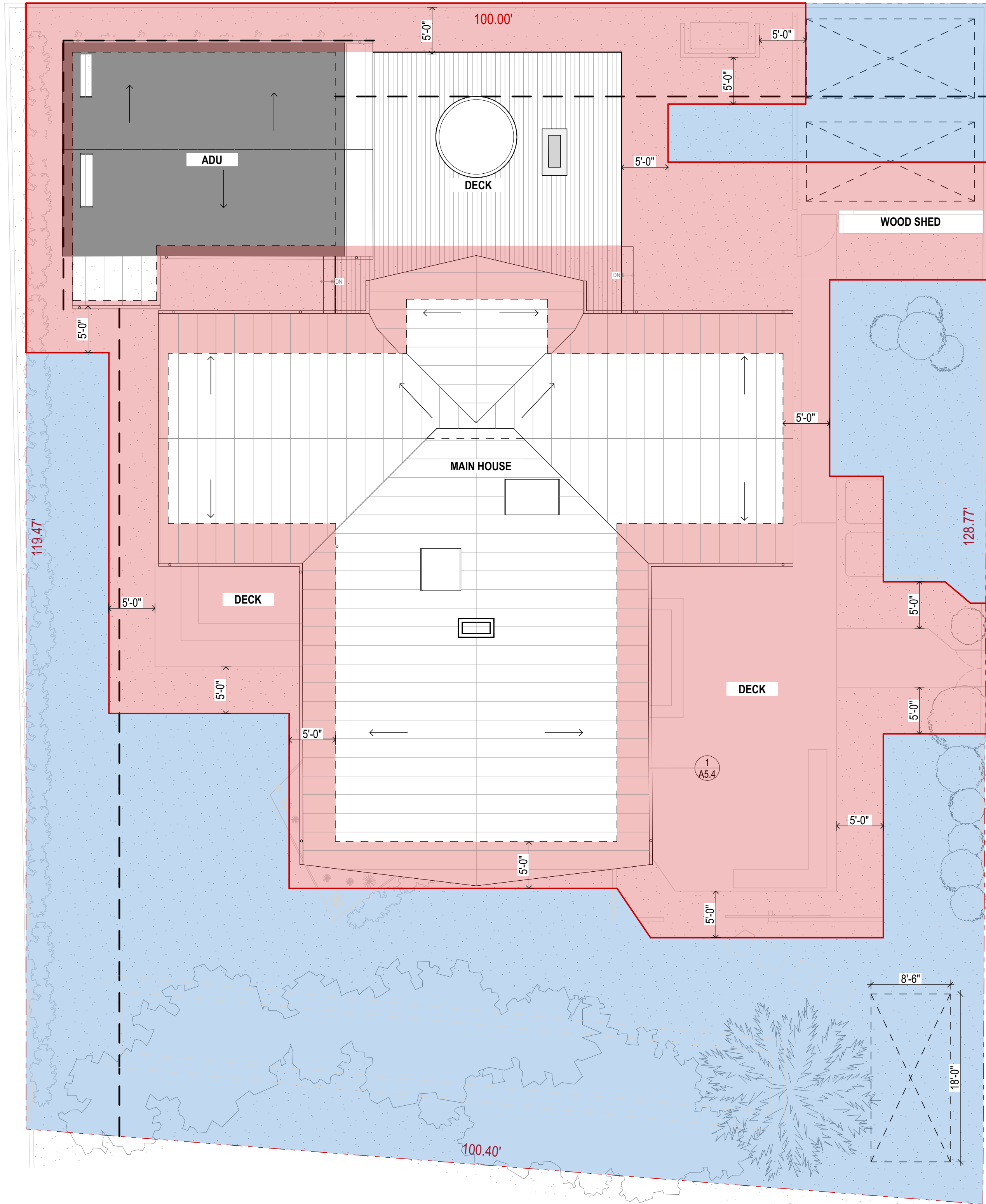
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| ⚠ | R2 RESPONSE | 24.12.18 |

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SITE PLAN

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- LEGEND**
- IMMEDIATE ZONE-
MOST VULNERABLE, NON-COMBUSTIBLE
NO VEGETATION RECOMMENDED
 - INTERMEDIATE ZONE-
"LEAN, CLEAN AND GREEN"
REDUCE IMPACT AND SPREAD

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VEGETATION
MANAGEMENT
PLAN

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VEGETATION MANAGEMENT PLAN

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

COUNTY OF MARY

PLAN

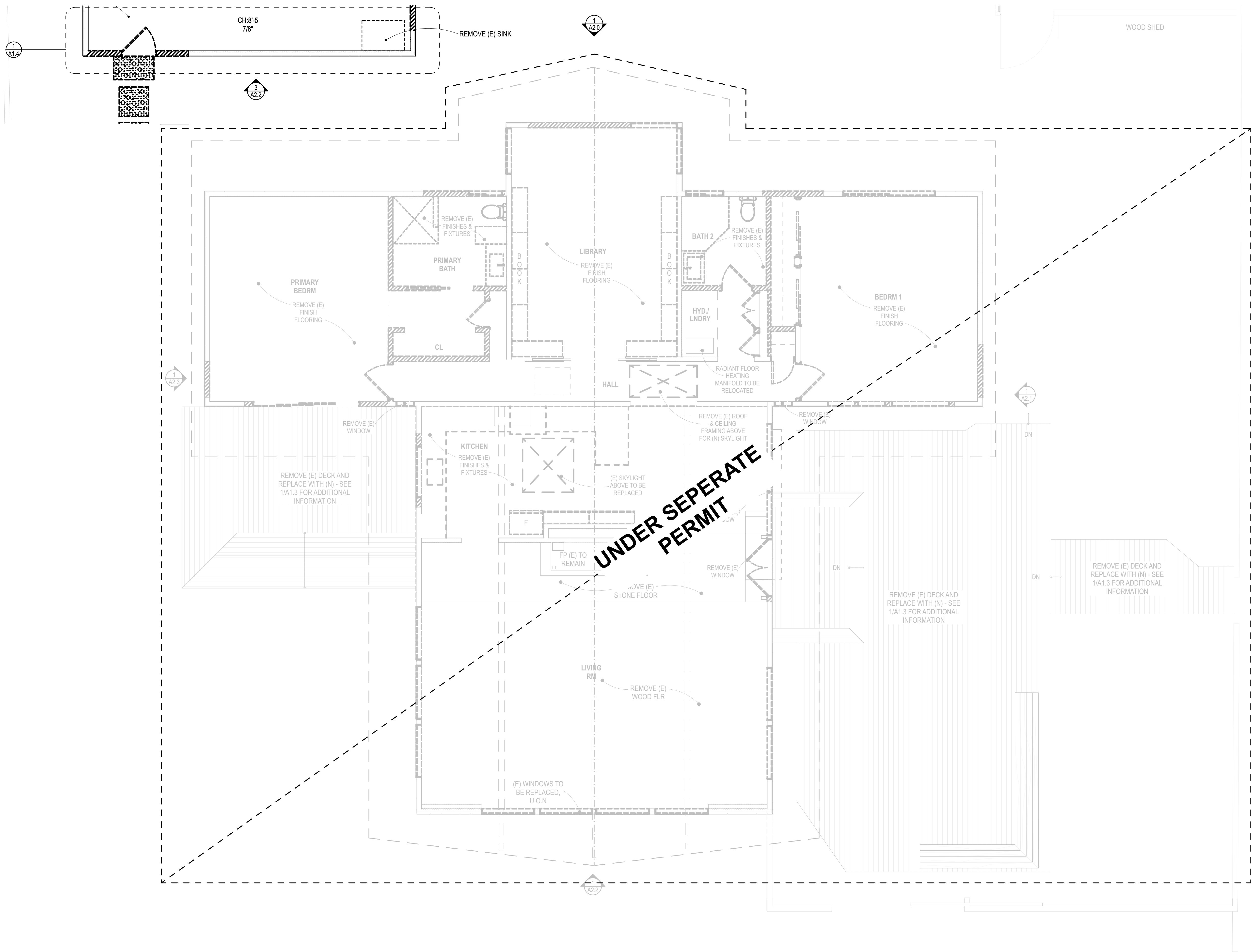
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DEMO FLOOR PLAN LEGEND

- (E) WALLS TO REMAIN
- WALLS & ELEMENTS TO BE REMOVED
- ELEMENTS BELOW
- ELEMENTS ABOVE

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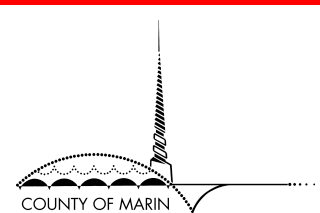
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MAIN HOUSE - DEMO PLAN

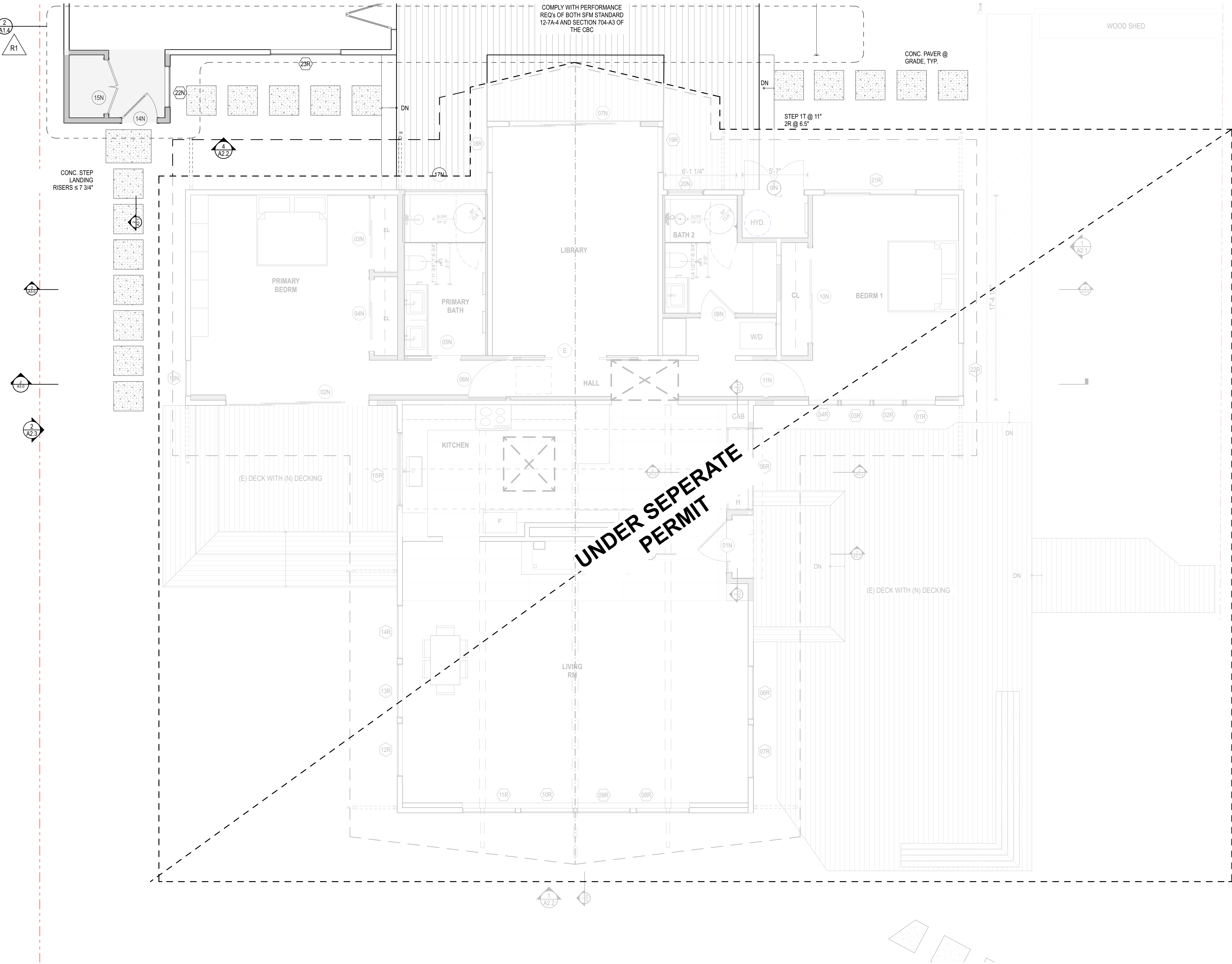
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A1.2

1 (E)/DEMO FLOOR PLAN - GROUND FLOOR
SCALE: 1/4" = 1'-0"



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- FLOOR PLAN LEGEND**
- (E) WALLS TO REMAIN
 - NEW WALLS
 - ELEMENTS BELOW
 - ELEMENTS ABOVE
 - X → WALL TYPES, SEE

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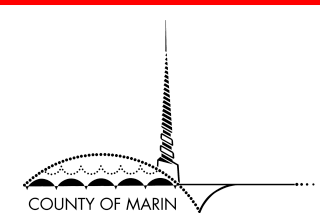
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MAIN HOUSE -
FLOOR PLAN

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A1.3



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1 (N)/PROPOSED FLOOR PLAN - GROUND FLOOR

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



ADU FLOOR PLAN LEGEND

- (E) WALLS TO REMAIN
- WALLS & ELEMENTS TO BE REMOVED
- NEW WALLS
- ELEMENTS BELOW
- ELEMENTS ABOVE
- X WALL TYPES, SEE

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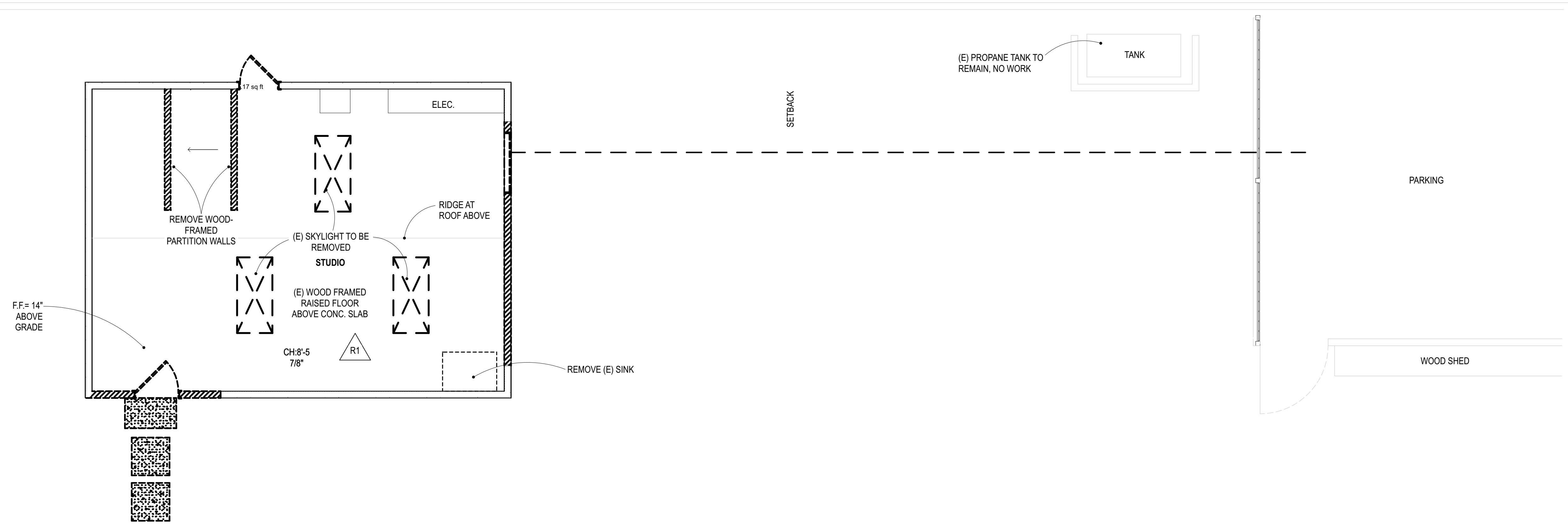
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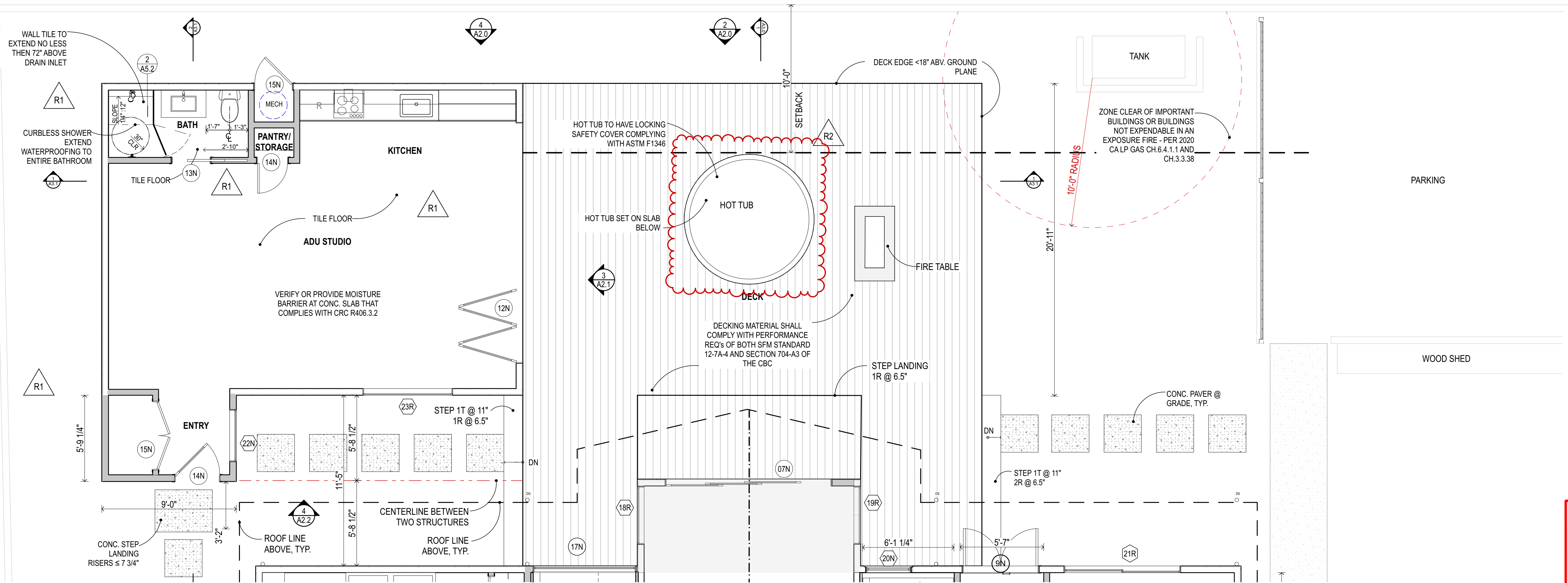
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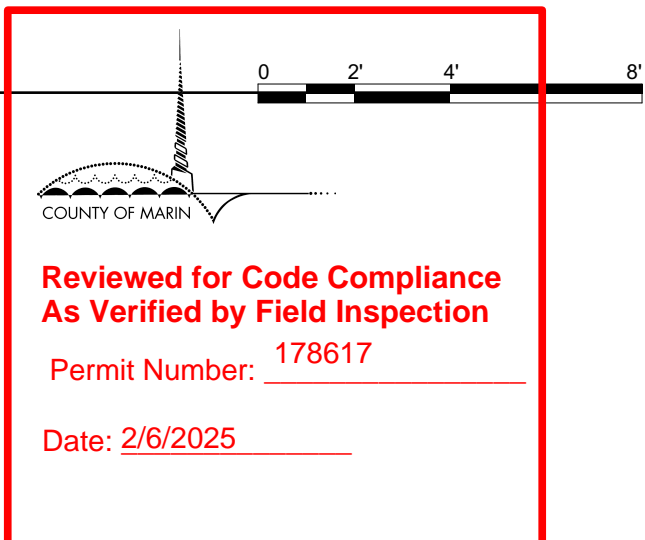
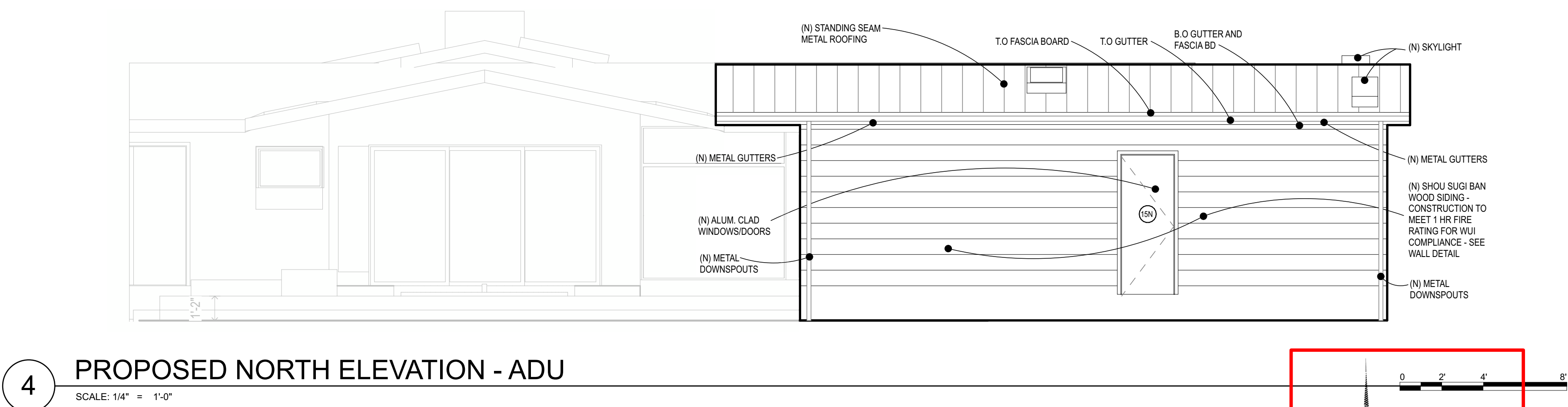
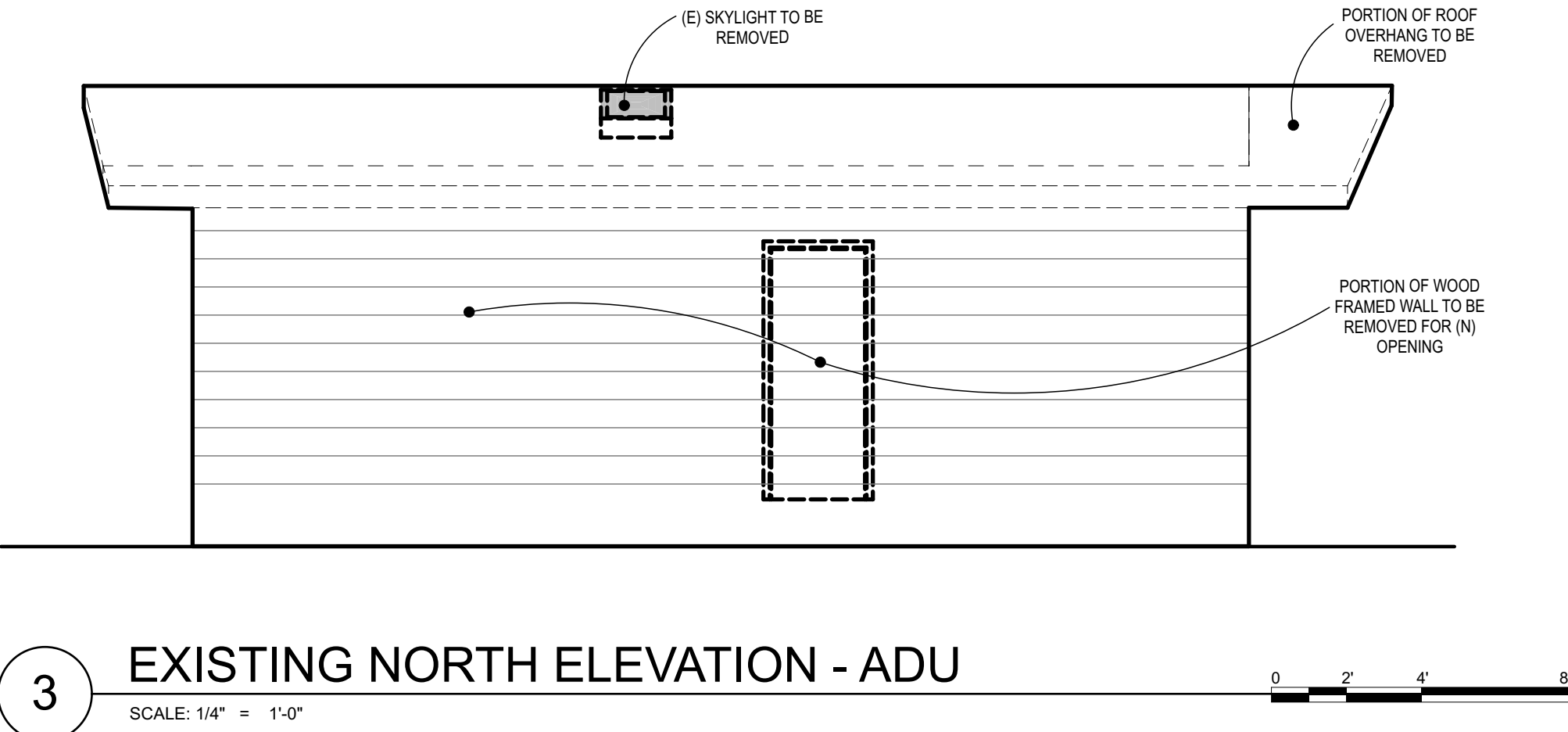
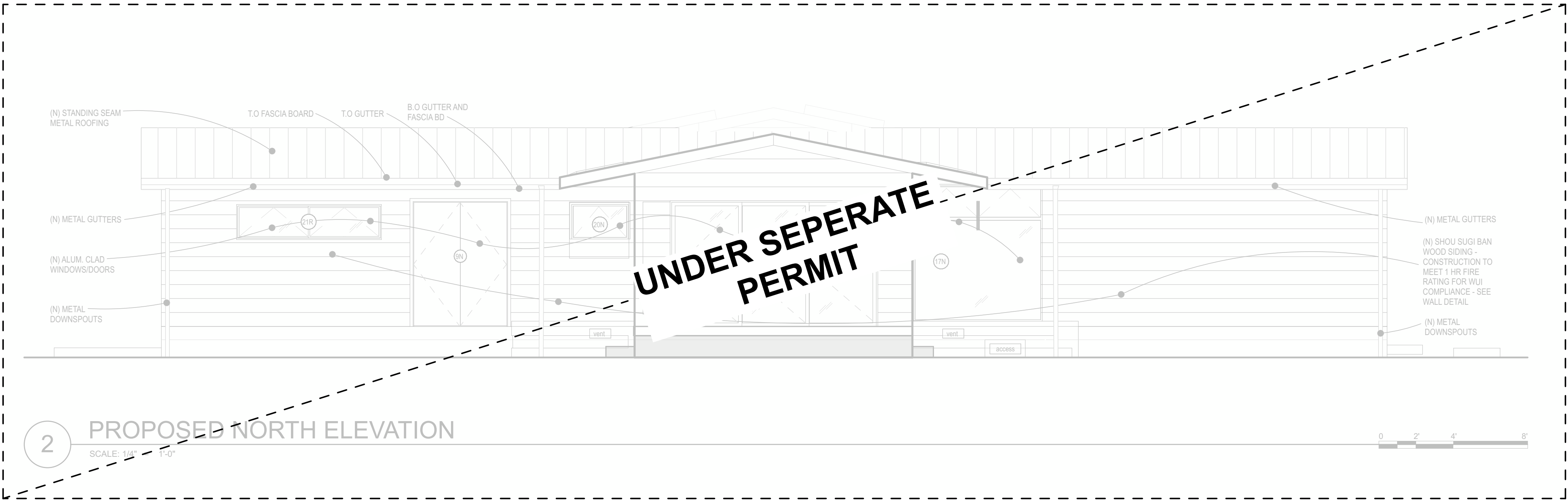
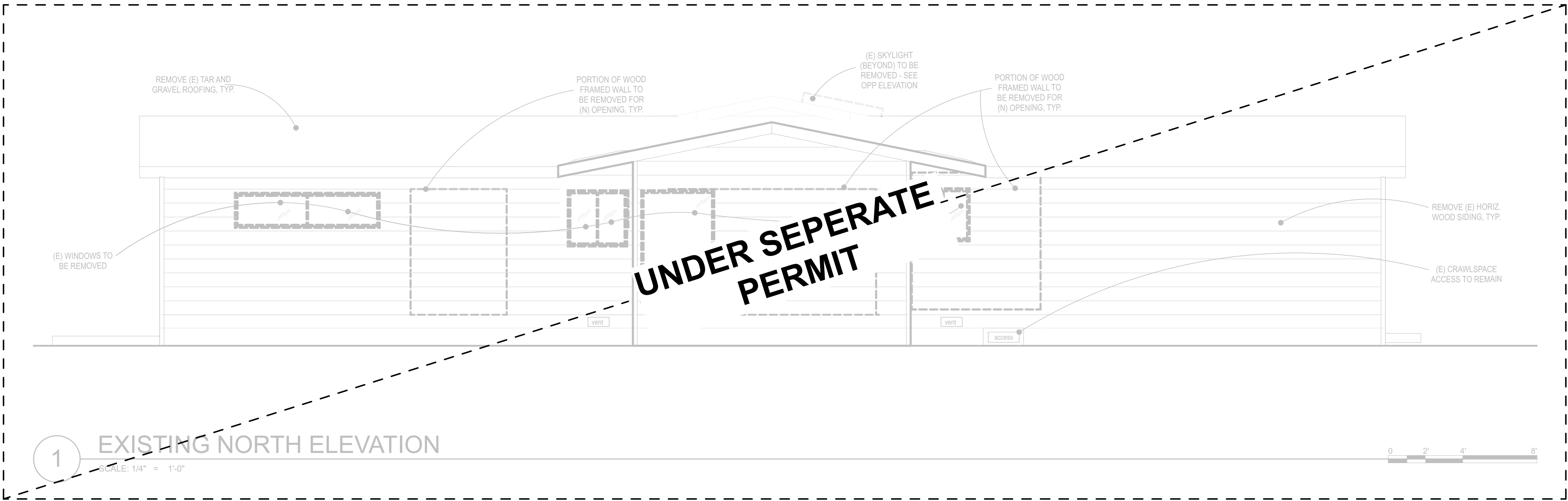


1 (E)/DEMO FLOOR PLAN - ADU
SCALE: 1/4" = 1'-0"



2 (N)/PROPOSED FLOOR PLAN - ADU
SCALE: 1/4" = 1'-0"

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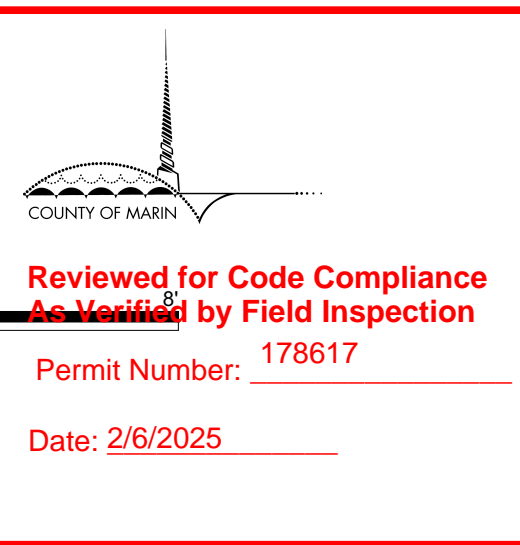
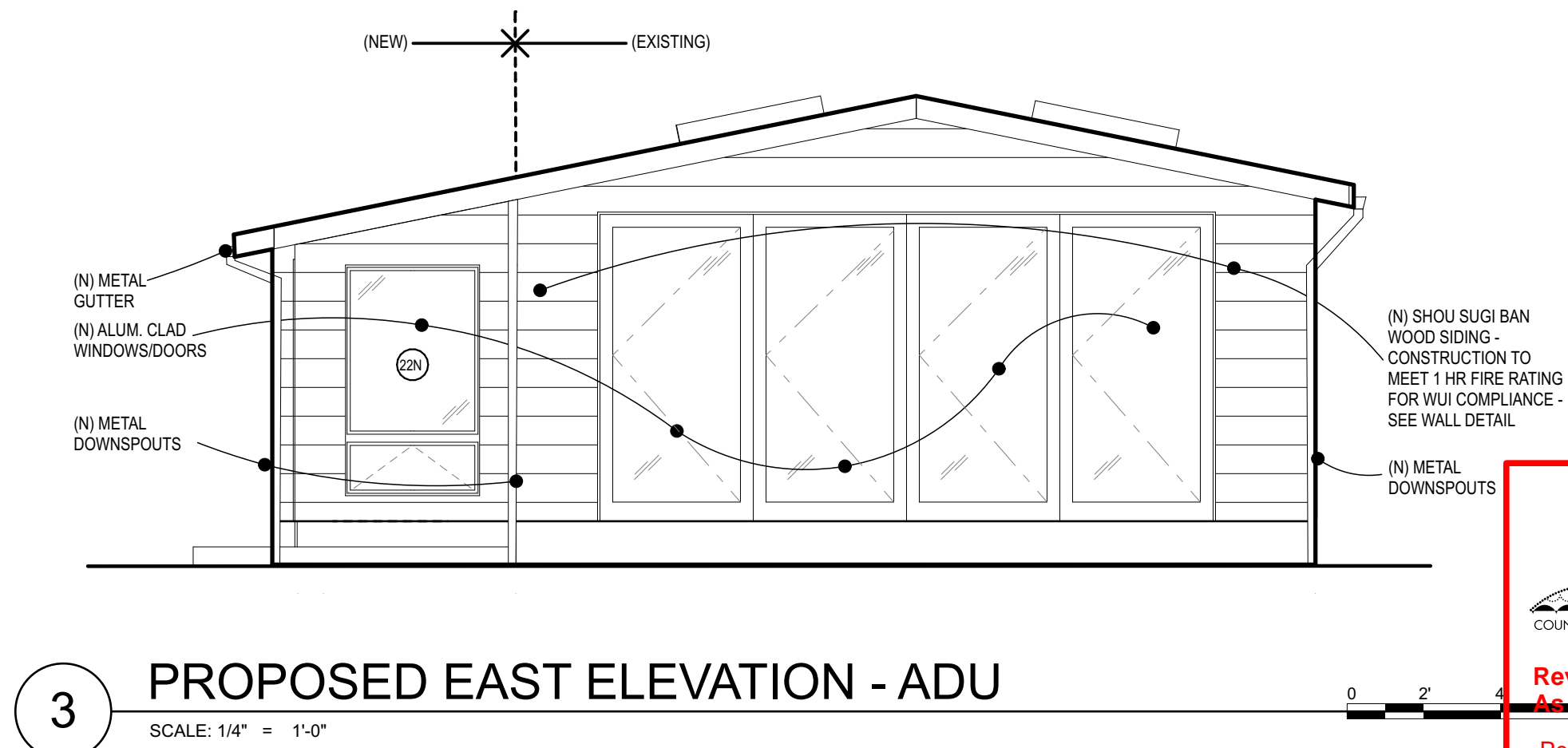
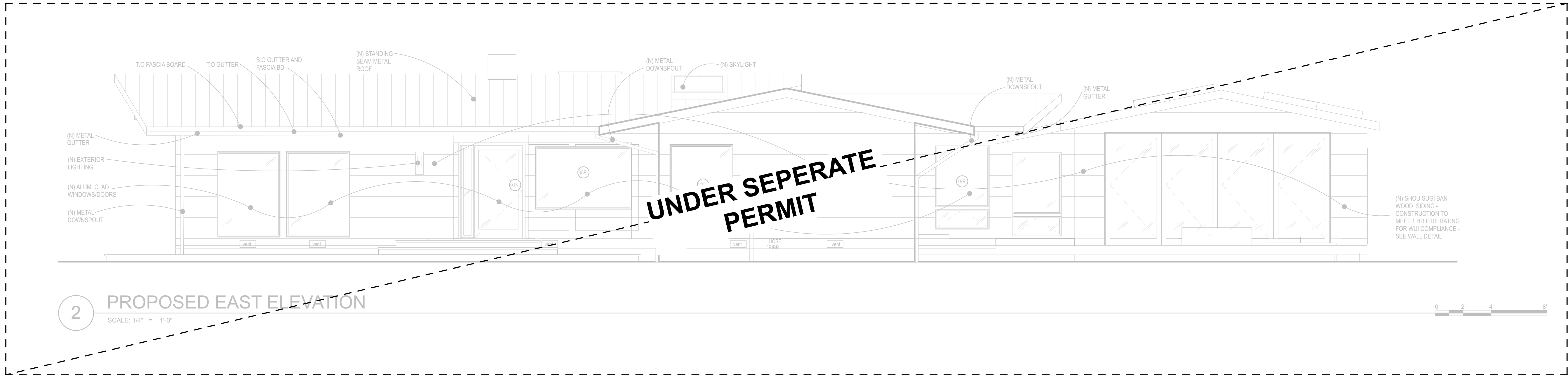
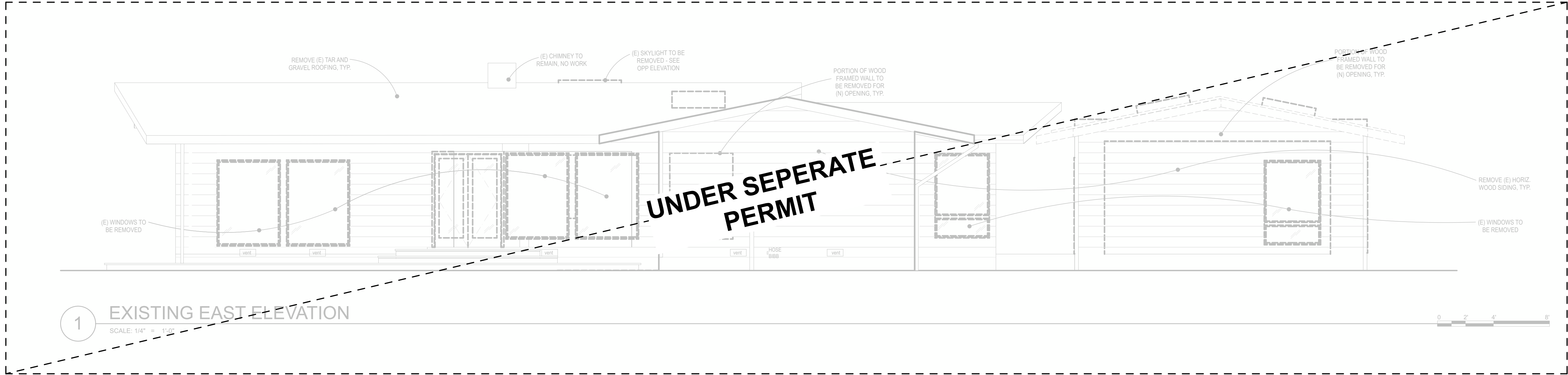
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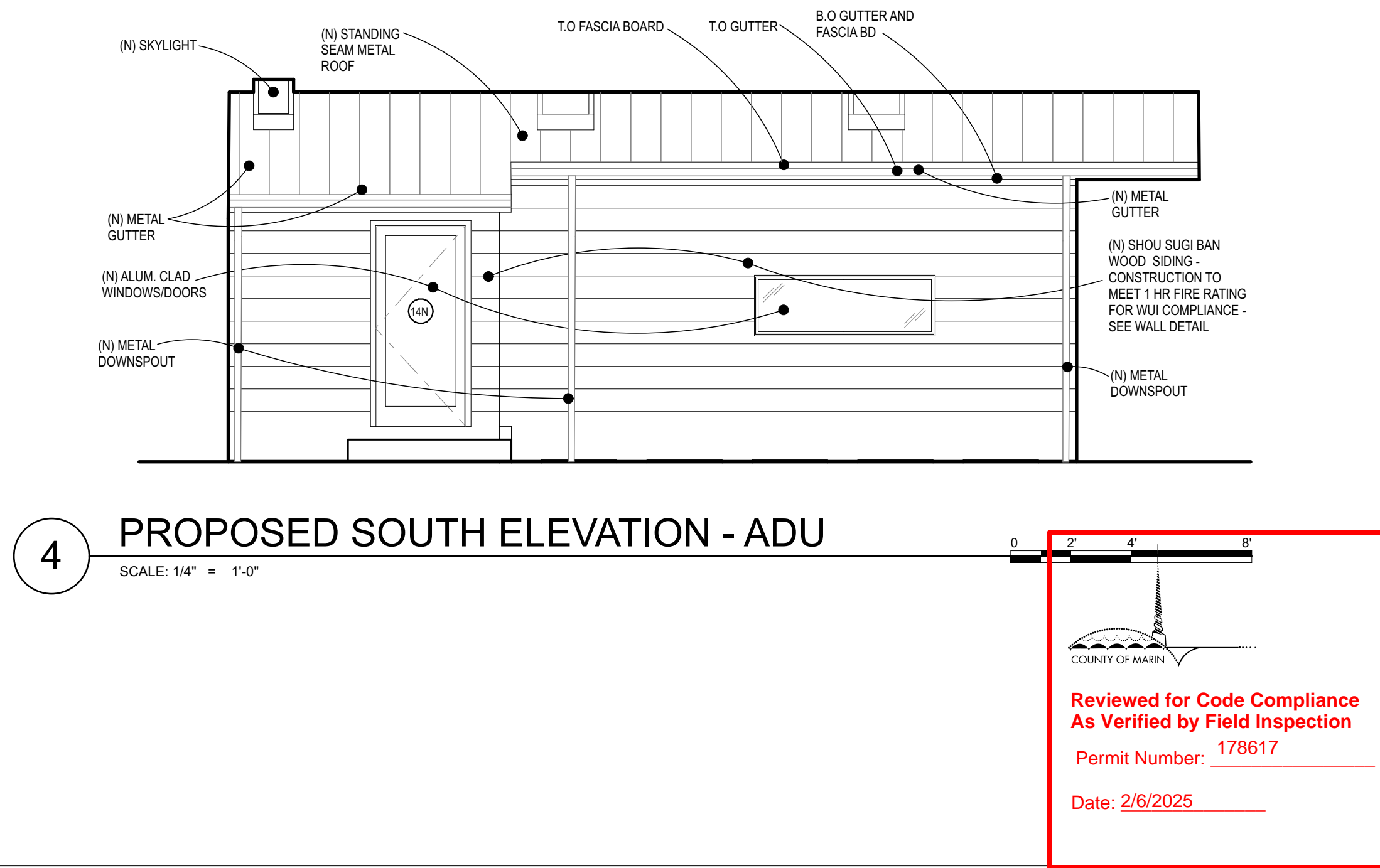
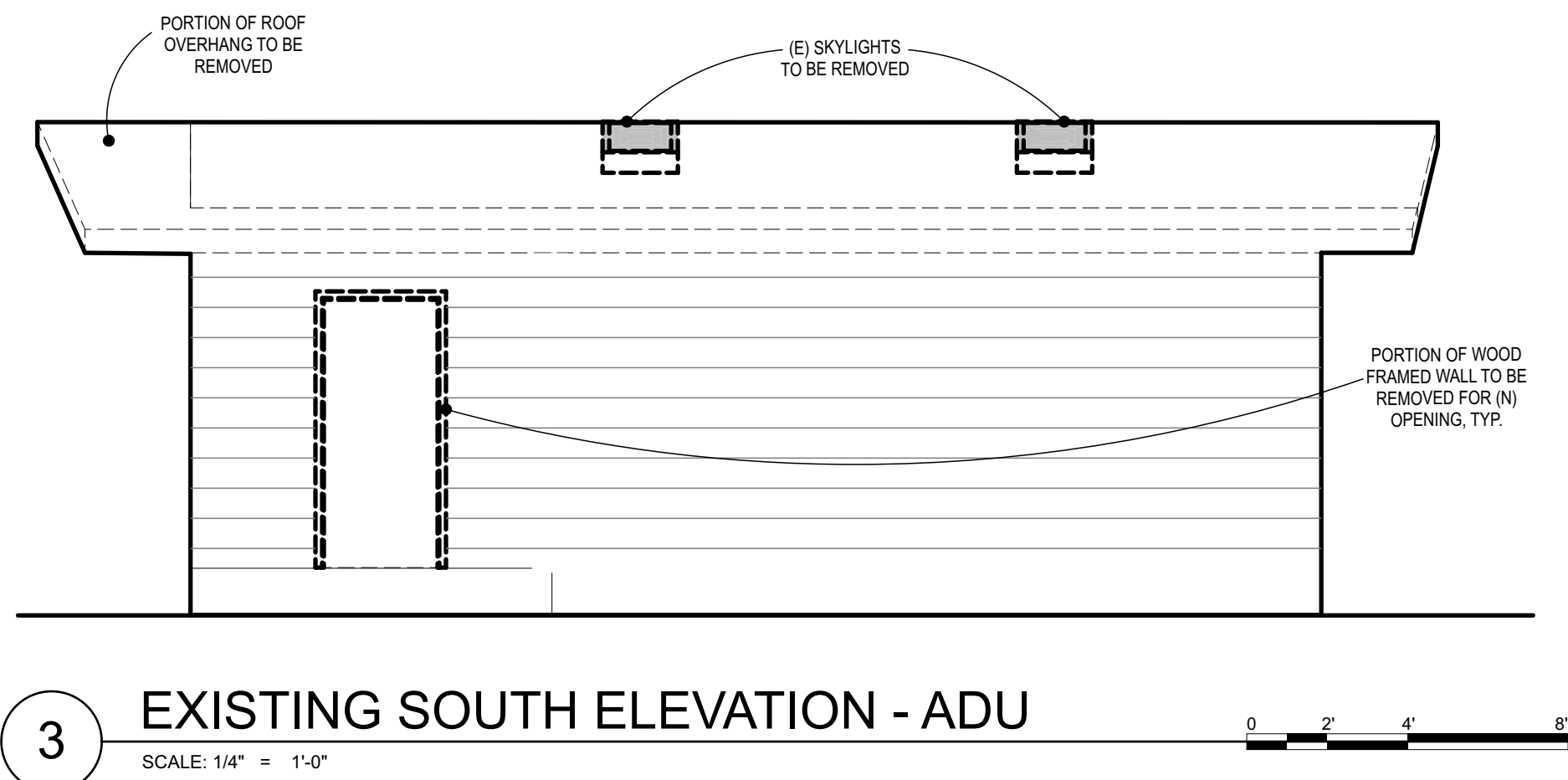
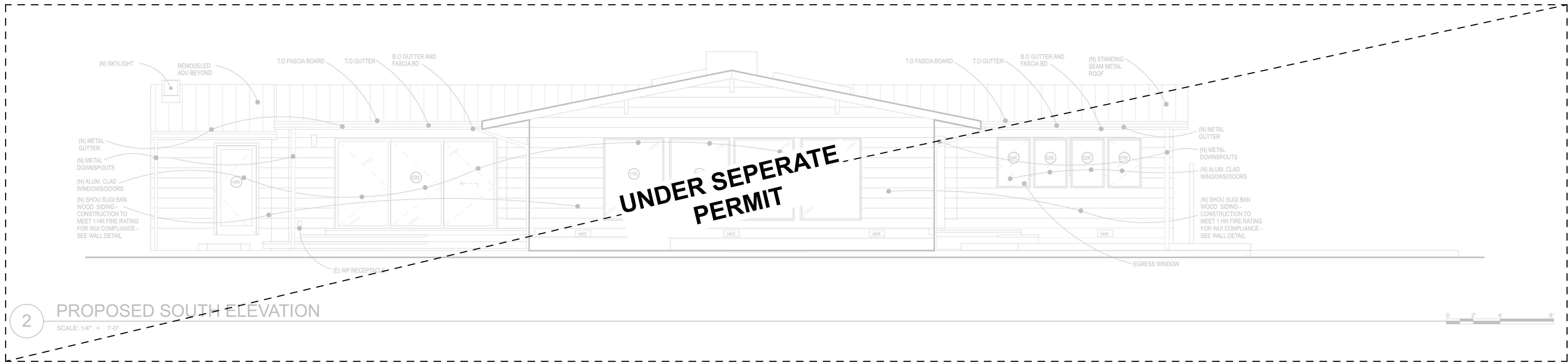
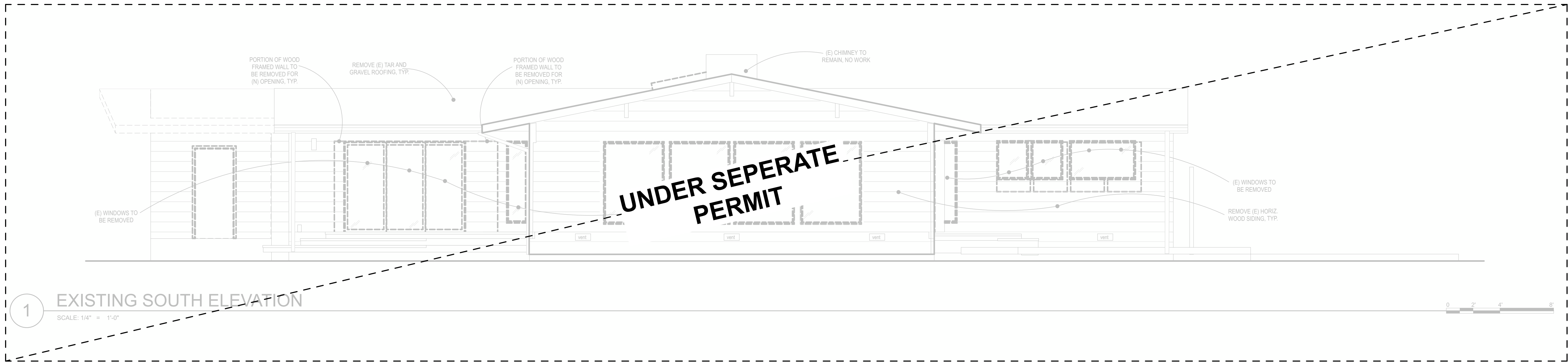
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(E) & (N) NORTH ELEVATION

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A2.0





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(E) & (N) SOUTH ELEVATION

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A2.2

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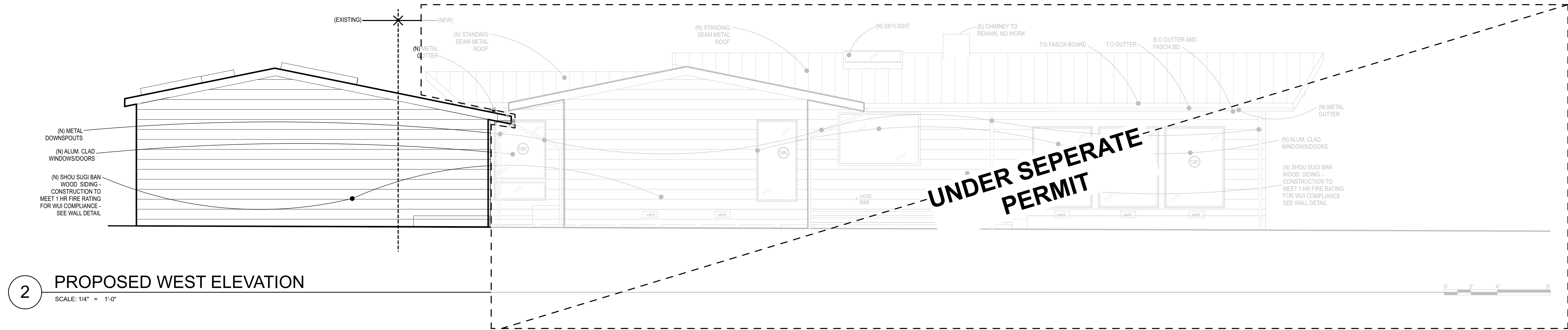
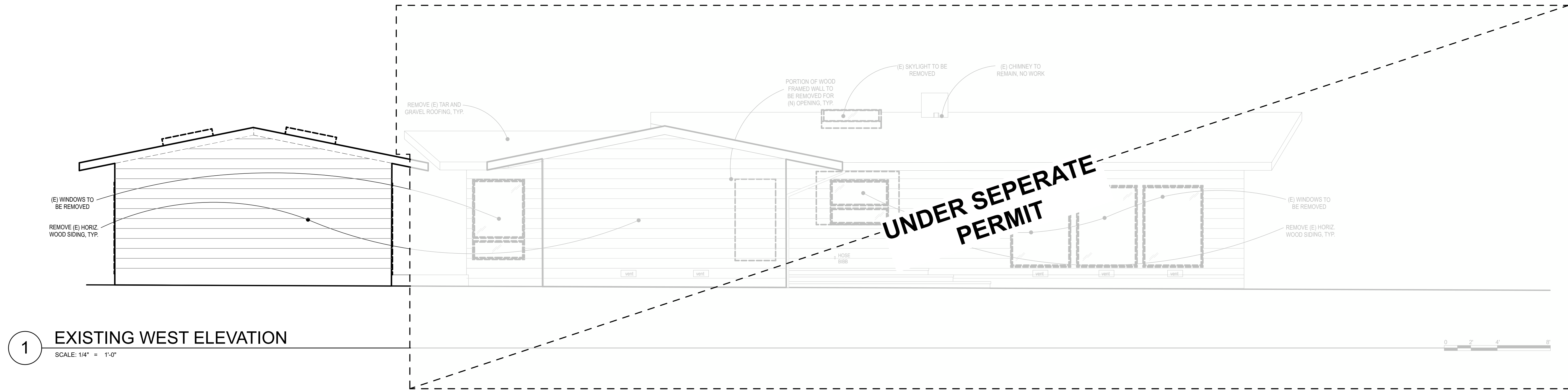
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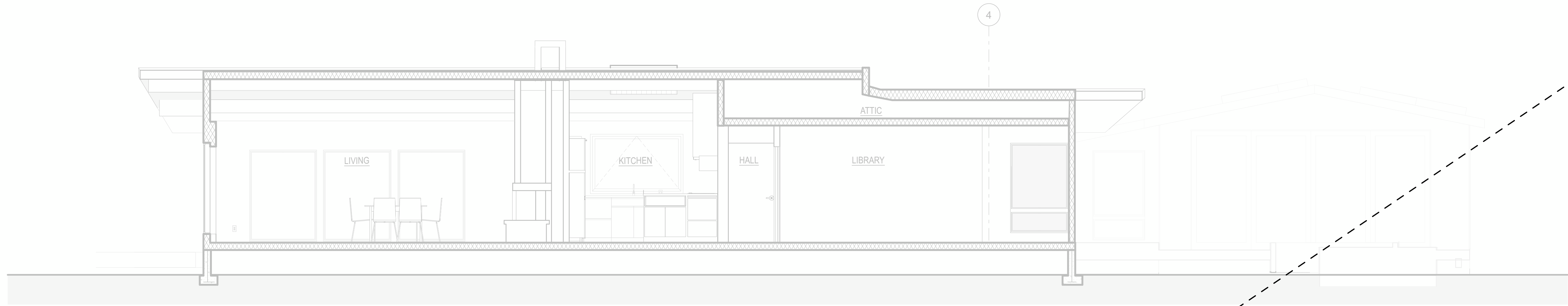
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(E) & (N) WEST
ELEVATION

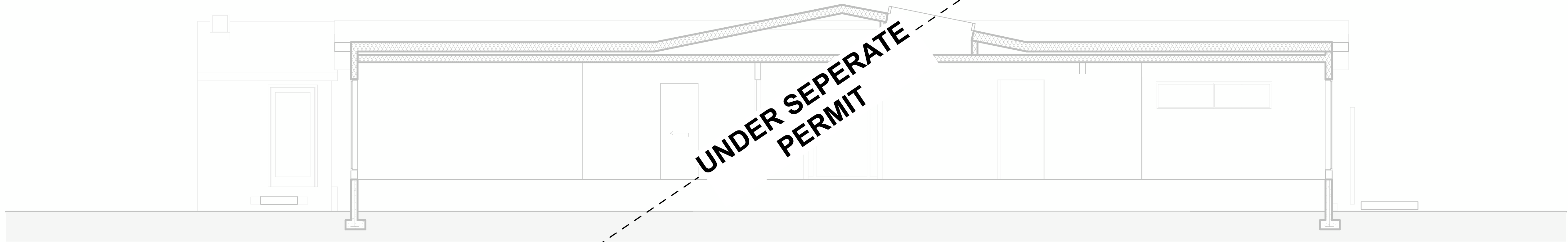
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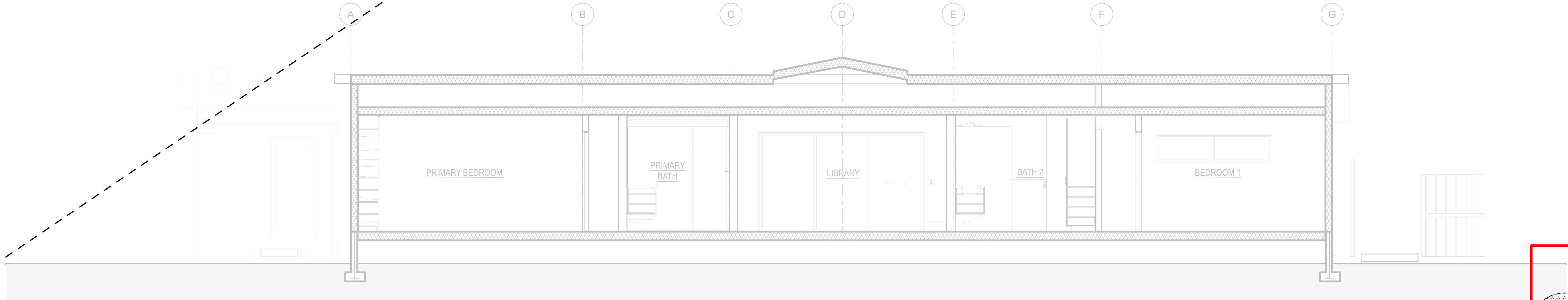




1 SECTION A-A'
SCALE: 1/4" = 1'-0"

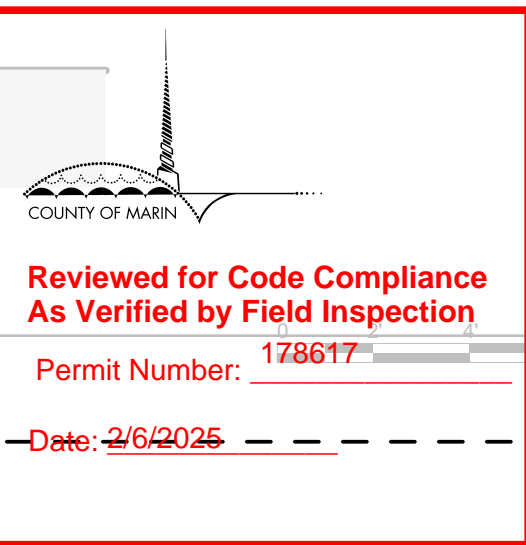


2 SECTION B-B'
SCALE: 1/4" = 1'-0"



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

UNDER SEPERATE
PERMIT



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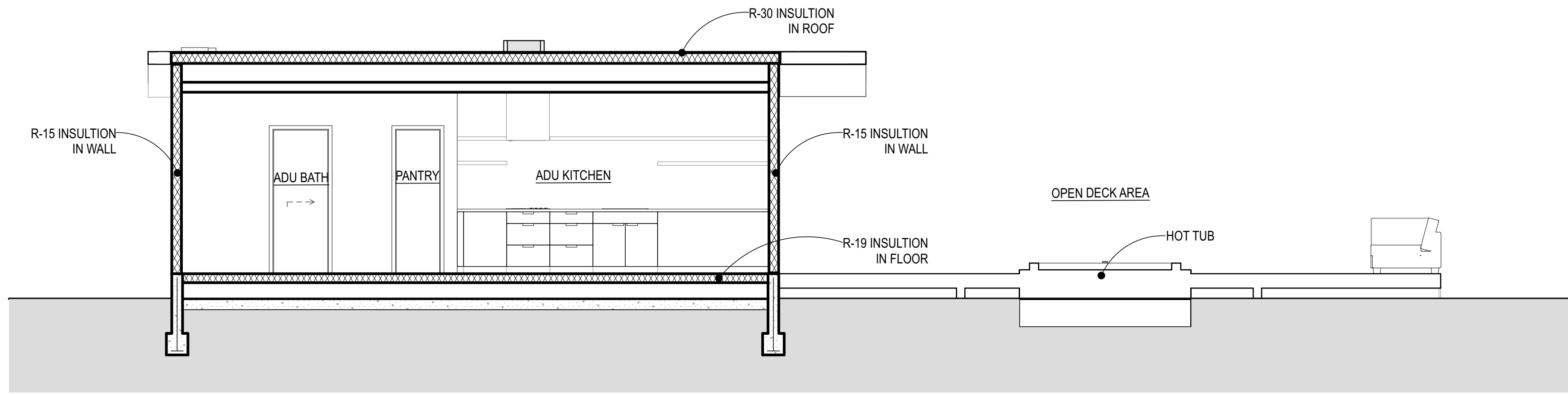
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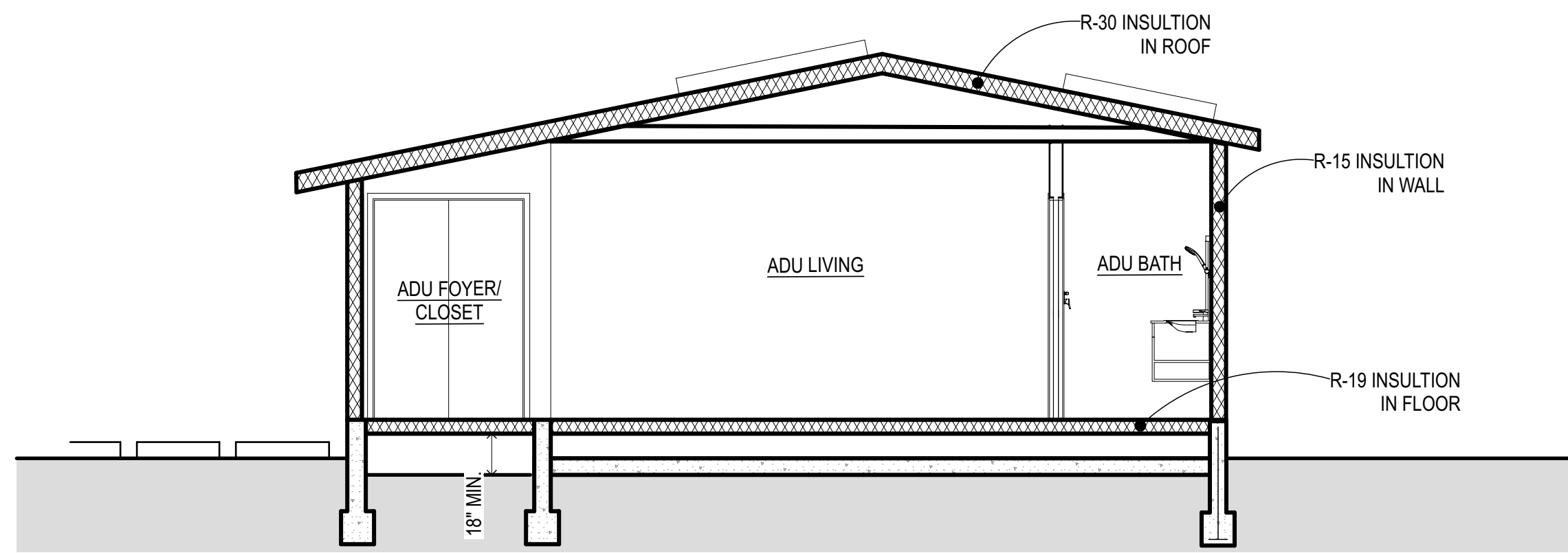
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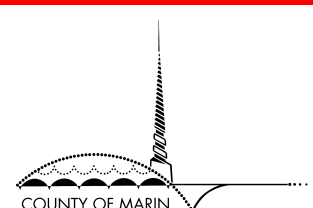
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1 SECTION D-D'
SCALE: 1/4" = 1'-0"



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


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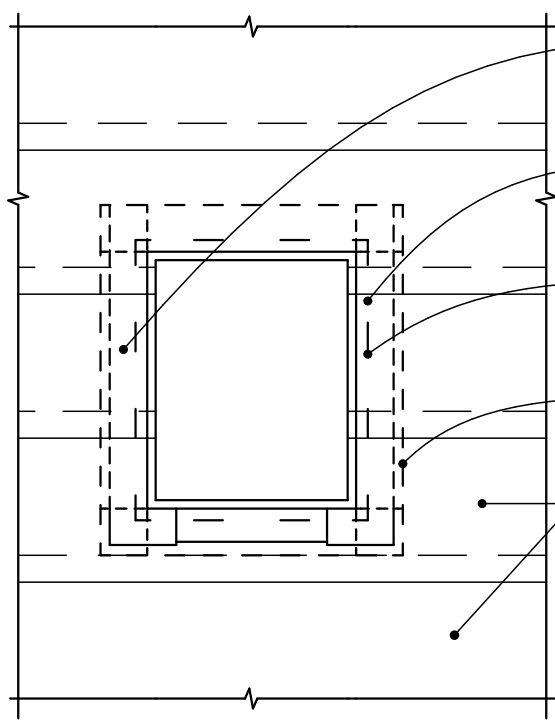
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SECTIONS D & E

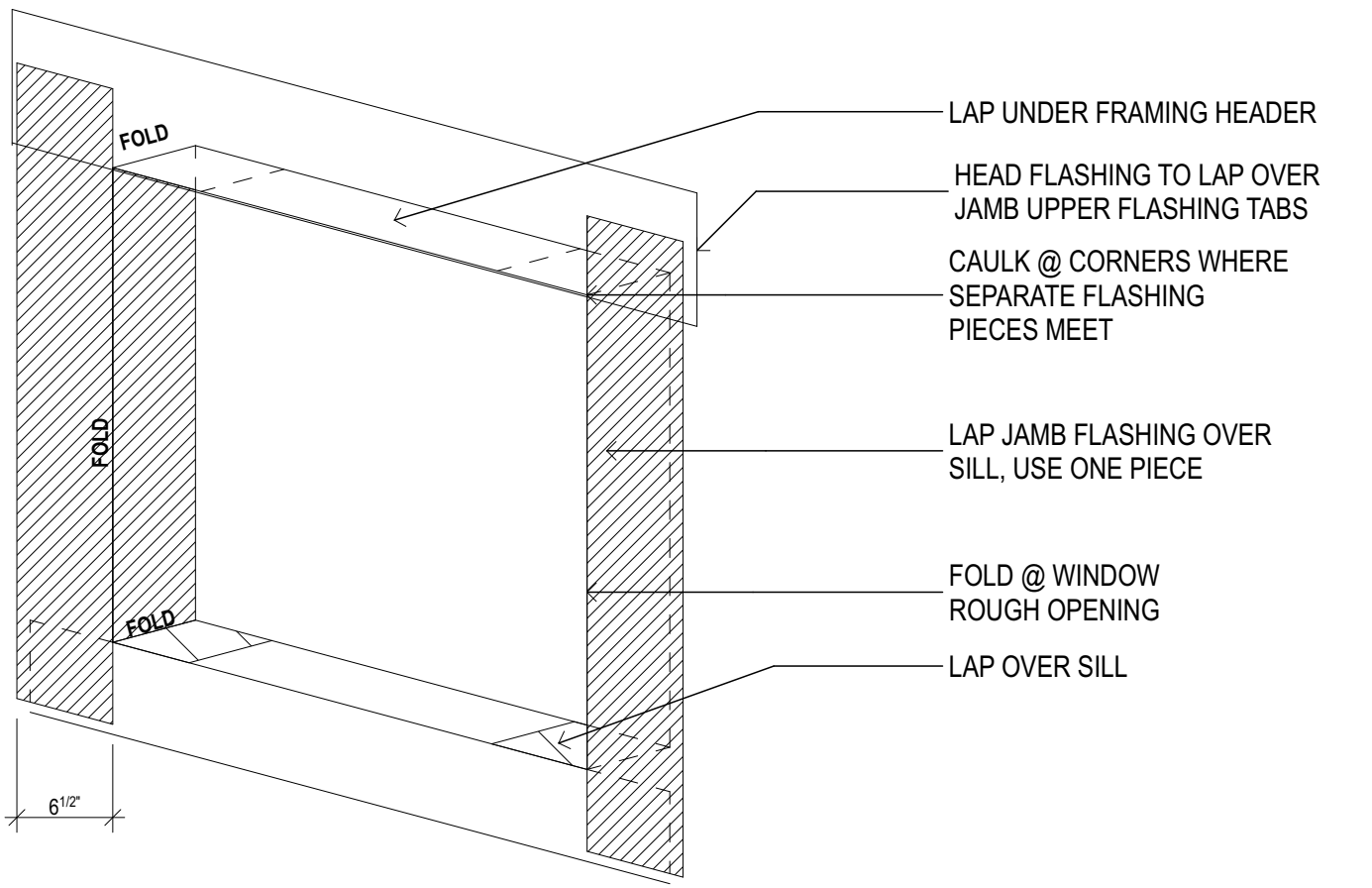
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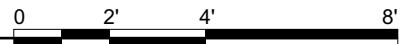


- STEP 1 - APPLY SELF-HEALING MEMBRANE AROUND ROUGH OPENING. FIRST @ SILL, SECOND @ JAMBS. LAP BLDG. PAPER UNDER SILL FLASHING.
- STEP 2 - APPLY SEALANT AND FLANGE OF WINDOW UNIT TO EDGE OF ROUGH OPENING.
- STEP 3 - APPLY LIQUID MEMBRANE OVER HEAD AND JAMB OF WINDOW UNIT FLANGES. DO NOT APPLY TO SILL FLANGE.
- STEP 4 - INSTALL SECOND COURSE OF SELF-HEALING MEMBRANE OVER WINDOW FLANGES @ SILL, JAMB & HEAD.
- STEP 5 - INSTALL REMAINING BUILDING PAPER COURSES IN SHINGLE FASHION OVER SELF-HEALING MEMBRANE JAMB AND HEAD FLASHING.

NOTE:
ARCHITECT TO REVIEW INSTALLATION OF BUILDING PAPER & WINDOW FLASHING WITH SIDING CONTRACTOR & WINDOW INSTALLER.



- LAP UNDER FRAMING HEADER
- HEAD FLASHING TO LAP OVER JAMB UPPER FLASHING TABS
- CAULK @ CORNERS WHERE SEPARATE FLASHING PIECES MEET
- LAP JAMB FLASHING OVER SILL, USE ONE PIECE
- FOLD @ WINDOW ROUGH OPENING
- LAP OVER SILL



1

FLASHING DETAILS

SCALE: 3" = 1'-0"

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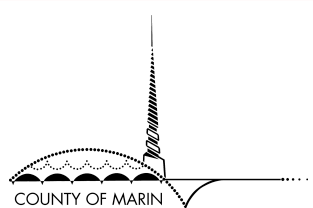
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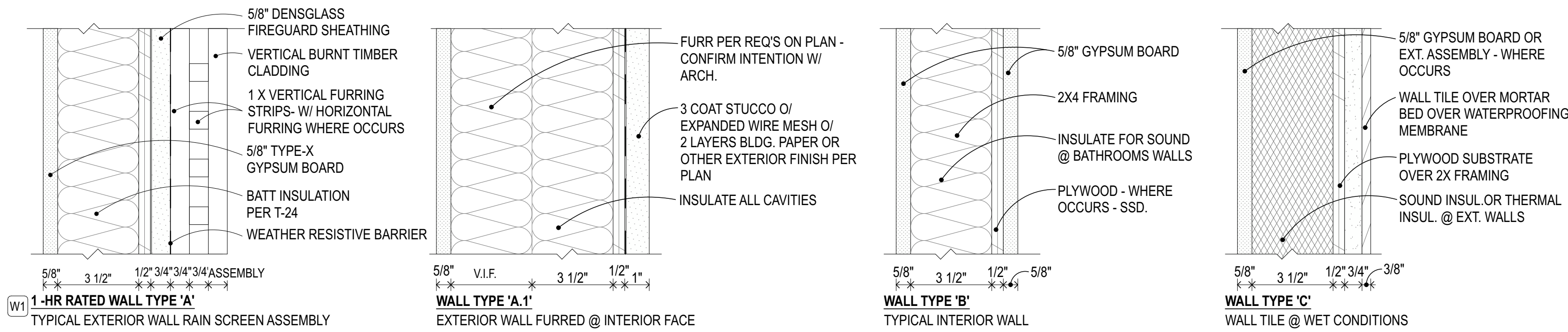
WINDOW DETAILS

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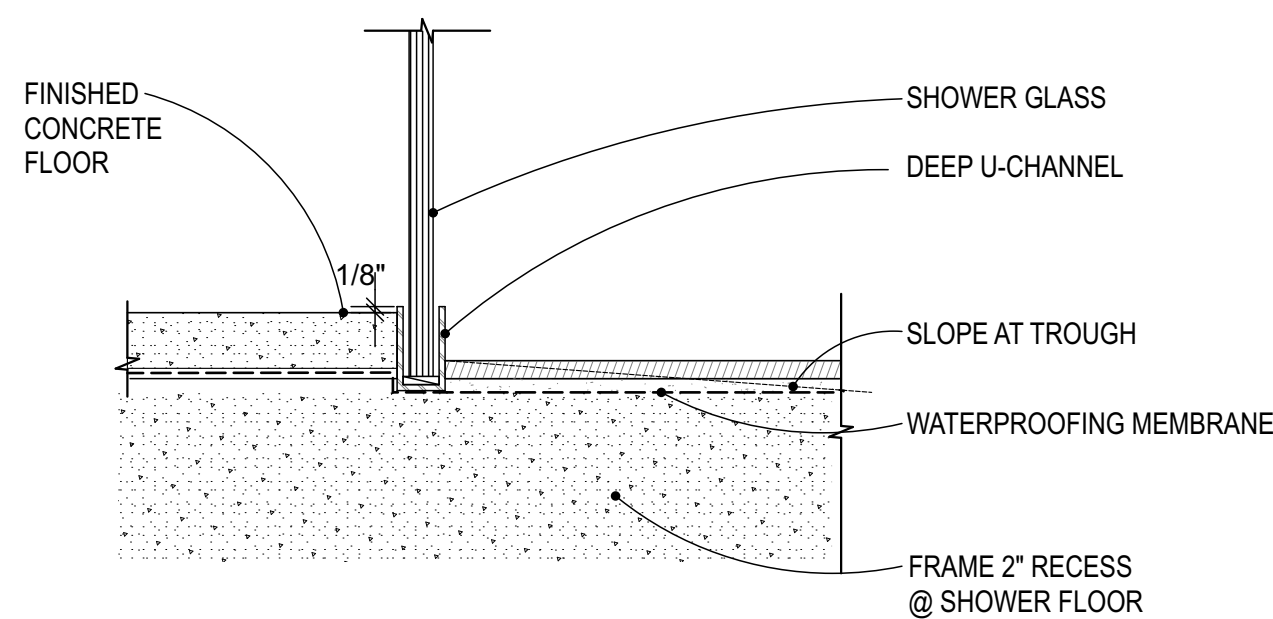
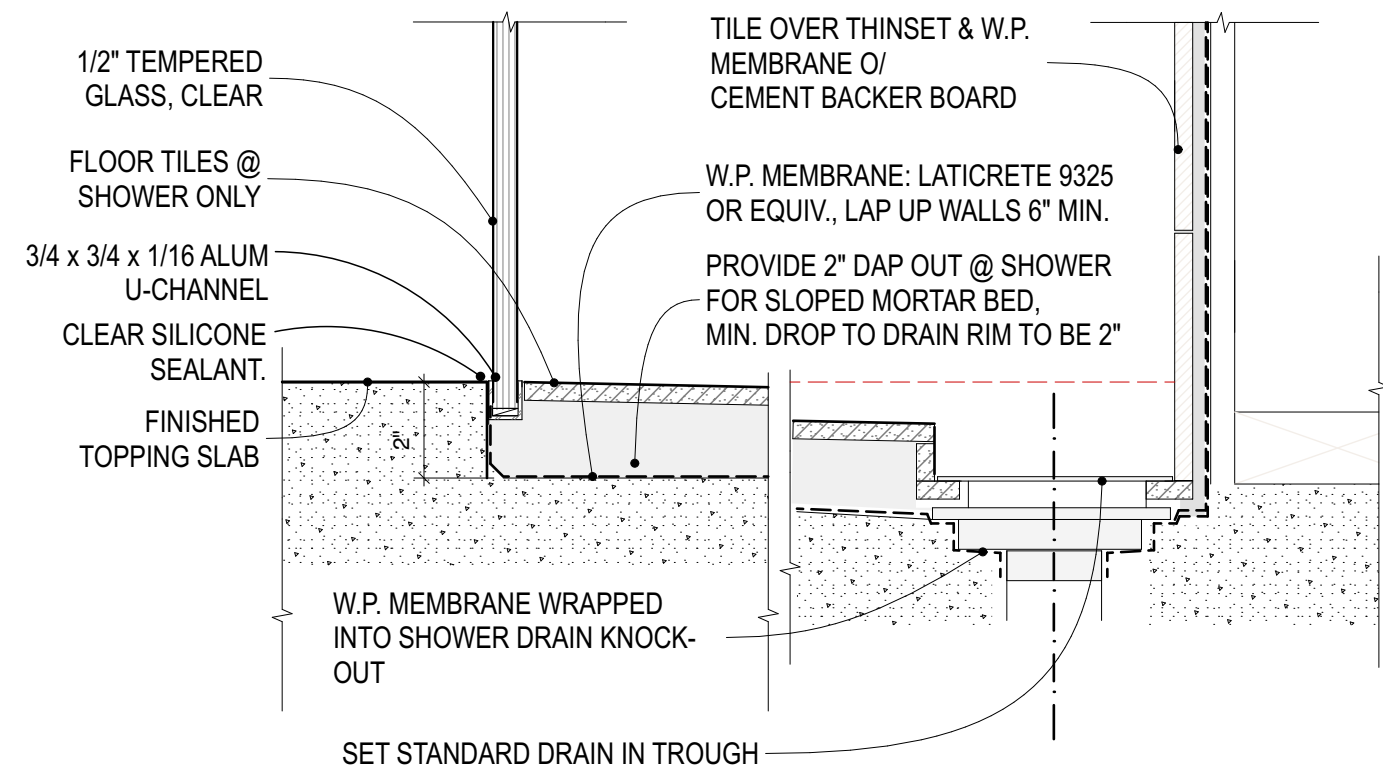
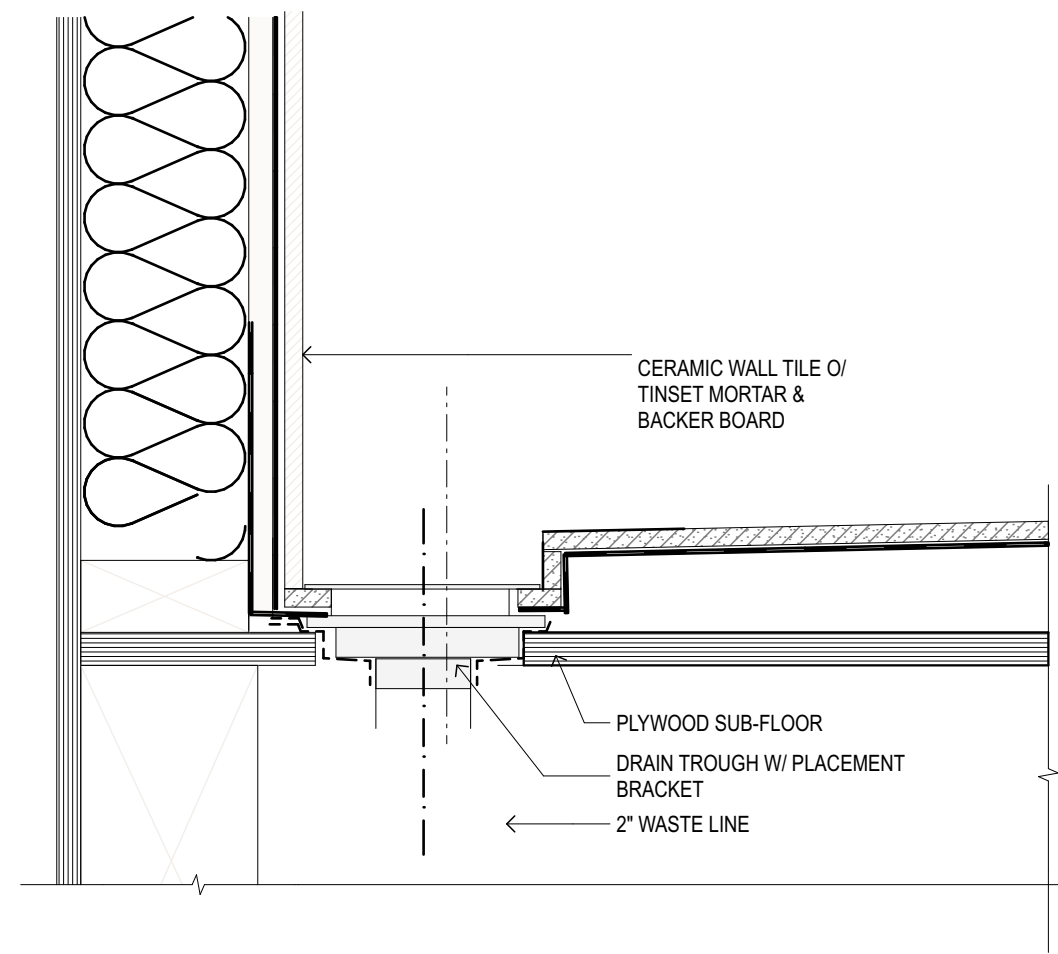


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1 WALL TYPE

SCALE: 3" = 1'-0"



SHOWER GLASS @ MH MASTER BATH2

2 CURBLESS SHOWER DETAIL

SCALE: 3" = 1'-0"

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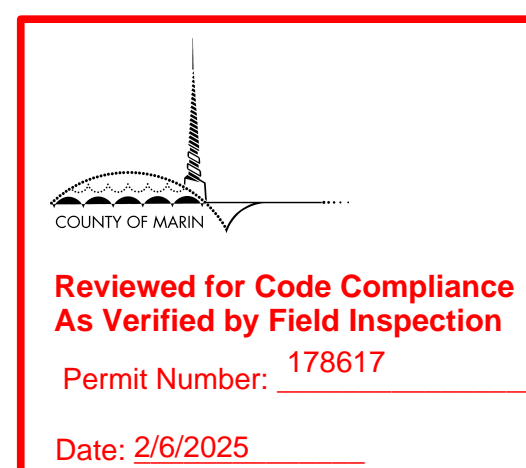
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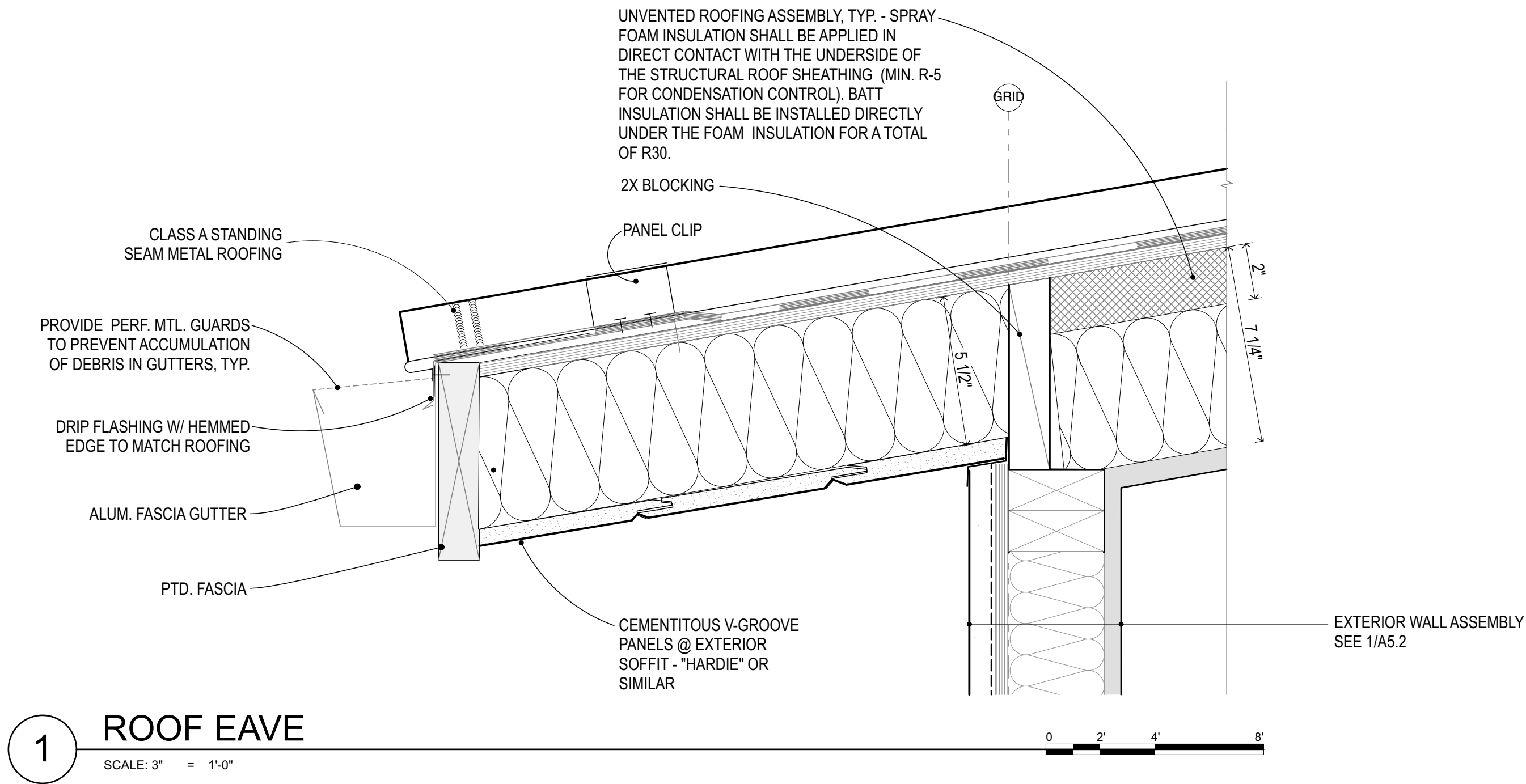
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DETAILS

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ROOFING DETAILS

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A5.4

WINDOW/ DOOR NOTES:

1. "ESCAPE OR RESCUE WINDOWS (WINDOWS LOCATED IN A SLEEPING ROOM) SHALL INCLUDE THE FOLLOWING:

- BOTTOM OF THE CLEAR OPENING SHALL NOT GREATER BE THAN 44 INCHES MEASURED FROM THE FLOOR.
- A MINIMUM NET CLEAR OPENING OF 5.7 SQUARE FEET.
- MINIMUM NET CLEAR OPENING HEIGHT SHALL BE 24 INCHES
- MINIMUM NET CLEAR OPENING WIDTH SHALL BE 20 INCHES
- OPERATIONAL FROM THE INSIDE OF THEROOM WITHOUT THE USE OF KEYS, TOOLS OR SPECIAL KNOWLEDGE."

CRC R310.1, R310.1.1, R310.2, R310.2.1, R310.2.2, R310.2.3, R310.2.3.1, R310.2.3.2 (AS APPLICABLE)

2. A "SLEEPING ROOM", AS INTERPRETED BY THE CITY OF MILL VALLEY PLANNING AND BUILDING DEPARTMENT, IS A HABITABLE SPACE OTHER THAN A KITCHEN OR DINING ROOM THAT HAS A DOOR THAT SEPARATES IT FROM ADJOINING HABITABLE OR NON-HABITABLE AREAS AND THAT COULD REASONABLY BE CONSIDERED AS A ROOM WHO'S FUNCTIONS COULD INCLUDE USE FOR SLEEPING PURPOSES.

3. OPENINGS BETWEEN THE GARAGE AND RESIDENCE SHALL BE EQUIPPED WITH SELF-CLOSING AND SELF-LATCHING DEVICES OR AUTOMATIC-CLOSING AND SELF-LATCHING DEVICE.

4. FOR ALL PROPOSED OR ALTERED WINDOWS AND DOORS:
WUI REQUIREMENT: "EXTERIOR WINDOW AND DOOR GLAZING OF ANY TYPE MUST CONTAIN AT LEAST ONE PANE OF TEMPERED GLASS." CRC R337.8.2.1

THIS INCLUDES:

1. EXTERIOR WINDOWS.
2. EXTERIOR GLAZED DOORS.
3. GLAZED OPENINGS WITHIN EXTERIOR DOORS.
4. GLAZED OPENINGS WITHIN EXTERIOR GARAGE DOORS.
6. SKYLIGHTS.
7. VENTS (IF APPLICABLE)

5. ALL PROPOSED (NEWLY-INSTALLED) DOORS SHALL COMPLY WITH ONE OF THE FOLLOWING PER CRC R337.8.3:

- (A).THE EXTERIOR SURFACE SHALL BE TESTED TO MEET THE PERFORMANCE REQUIREMENTS OF SFM STANDARD 12-7A-1 OR
(B). THE EXTERIOR SURFACE OR CLADDING SHALL BE OF NONCOMBUSTABLE MATERIAL OR IGNITION RESISTANT MATERIAL OR
(C). CONSTRUCTED OF SOLID CORE WOOD AND NOT HAVE STILES AND RAILS NOT BE LESS THAN 1 3/8" THICK WITH INTERIOR FIELD PANELS NO LESS THAN 1 1/4" THICK OR
(D). HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 20 MIN. WHEN TESTED ACCORDING TO NFPA 252

6. EXTERIOR GARAGE DOORS (IF APPLICABLE) SHALL RESIST THE INTRUSION OF EMBERS FROM ENTERING BY PREVENTING GAPS BETWEEN DOORS AND DOOR OPENINGS, AT THE BOTTOM, SIDES AND TOPS OF DOORS, FROM EXCEEDING 1/8 INCH. GAPS BETWEEN DOORS AND DOOR OPENINGS SHALL BE CONTROLLED BY ONE OF THE FOLLOWING METHODS PER CRC R337.8.4:

WEATHER STRIPPING PRODUCTS MADE OF MATERIALS THAT:

(A) HAVE BEEN TESTED FOR TENSILE STRENGTH IN ACCORDANCE WITH ASTM D638 AFTER EXPOSURE TO ASTM G155 FOR A PERIOD OF 2,000 HOURS, WHERE THE MAXIMUM ALLOWABLE DIFFERENCE IN TENSILE STRENGTH VALUES BETWEEN EXPOSED AND NON-EXPOSED SAMPLES DOES NOT EXCEED 10% AND

(B) EXHIBIT A V-2 OR BETTER FLAMMABILITY RATING WHEN TESTED TO UL 94, STANDARD FOR TESTS FOR FLAMMABILITY OF PLASTIC MATERIALS FOR PARTS IN DEVICES AND APPLIANCES." CRC R337.8.4

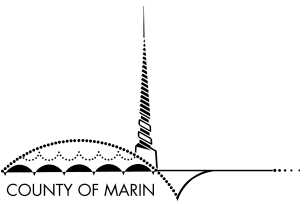
6. SKYLIGHT SHALL COMPLY WITH **WUI REQUIREMENTS** (TEMPERED GLASS/OTHER TO MAINTAIN CLASS A ASSEMBLY @ ROOF). *OPERABLE SKYLIGHTS SHALL BE PROTECTED BY A NON COMBUSTABLE MESH SCREEN WHERE THE DIMENSIONS OF THE OPENINGS IN THE SCREEN SHALL NOT EXCEED 1/8" " R337.8.2.2

| ADU DOOR SCHEDULE | | | | | | | | | | | | | |
|-------------------|--------------|-----------|--------------|------|----------|----------------|------------------|------|-------------|----------|---------|--------|--------|
| ID | ROOM | TYPE | OPERATION | W | HT | DOOR THICKNESS | MATERIAL/FINISH | MFGR | GLZ | U/SHGC | HDW SET | HAND'G | NOTE: |
| 12N | STUDIO ADU | FOLDING | 4 STACK LEFT | 192" | 96 1/16" | 1 3/8" | ALUM/ BLCK | TBD | TEMP. CLEAR | 0.3/0.23 | | | |
| 13N | ADU BATH | FLUSH | HINGED | 30" | 80" | 1 3/4" | WD/ PT | -- | | | | | |
| 14N | ADU PANTRY | FLUSH | HINGED | 24" | 80" | 1 3/8" | WD/ PT | -- | -- | | | | |
| 14N | STUDIO ENTRY | SNGL LITE | HINGED | 36" | 80" | 1 3/8" | ALUM/ BLCK | -- | TEMP. CLEAR | 0.3/0.23 | | | EGRESS |
| 15N | CL - ADU | FLUSH | SLIDING | 54" | 80" | 1 3/8" | WD/ PT | -- | -- | | | | |
| 15N | MECH | FLUSH | HINGED | 30" | 80" | 1 3/8" | FIBERGLASS/ PTD. | -- | -- | | | | |

| ADU WINDOW SCHEDULE | | | | | | | | | | | |
|---------------------|-------------|----------|--------|------------|--------------|------------------|------------|-------------------------------------|---------|--------|------------------|
| ID | ROOM | NET SIZE | | TYPE | MFGR / MODEL | MATERIAL/ FINISH | GLAZING | | | SCREEN | REMARKS/ DETAILS |
| | | WIDTH | HEIGHT | | | | CLR/ OBSC? | Tempered | U/ SHGC | | |
| 22N | ADU - ENTRY | 42" | 72" | FIXED/ AWN | tbd | ALUM/ BLCK | CLR | <input checked="" type="checkbox"/> | | | |

| MAIN HOUSE DOOR SCHEDULE | | | | | | | | | | | | | |
|--------------------------|--------------|--------------------------|-----------|-----------|-----|----------------|------------------|------|-------------|--------|---------|--------|--------|
| ID | ROOM | TYPE | OPERATION | W | HT | DOOR THICKNESS | MATERIAL/FINISH | MFGR | GLZ | U/SHGC | HDW SET | HAND'G | NOTE: |
| 01N | ENTRY DOOR | SNGL LITE + SIDE LITE | HINGED | 42" | 80" | 1 3/8" | ALUM/ BLCK | TBD | TEMP. CLEAR | | --- | | |
| 02N | P. BDRM | SLIDING | OXX | 144" | 80" | 1 1/4" | ALUM/ BLCK | TBD | TEMP. CLEAR | | --- | | |
| 03N | CL - P. BDRM | FLUSH | SLIDING | 72" | 80" | 1 3/8" | WD/ PT | -- | -- | | --- | | |
| 04N | CL - P. BDRM | FLUSH | SLIDING | 72" | 80" | 1 3/8" | WD/ PT | -- | -- | | --- | | |
| 05N | P. BATH | FLUSH | POCKET | 30" | 80" | 1 3/4" | WD/ PT | -- | | | --- | | |
| 06N | P. BDRM | FLUSH | HINGED | 38 1/4" | 80" | 1 3/8" | WD/ PT | -- | -- | | --- | | |
| 07N | LIBRARY | SLIDING | XXO | 132" | 80" | 1 1/4" | ALUM/ BLCK | | TEMP. CLEAR | | --- | | EGRESS |
| 08N | BATH 2 | FLUSH | HINGED | 34" | 80" | 1 3/8" | WD/ PT | -- | -- | | --- | | |
| 9N | UTILITY | FLUSH | HINGED | 60" | 80" | 1 3/4" | FIBERGLASS/ PTD. | | | | --- | | |
| 10N | CL - BDRM 1 | FLUSH | SLIDING | 96" | 80" | 1 3/8" | WD/ PT | -- | -- | | --- | | |
| 11N | BDRM 1 | FLUSH | HINGED | 37 15/16" | 80" | 1 3/8" | WD/ PT | -- | -- | | --- | | |

| MAIN HOUSE WINDOW SCHEDULE | | | | | | | | | | | |
|----------------------------|------------|-----------|---------|-------------|--------------|------------------|------------|--------------------------|-------------|--------|------------------|
| ID | ROOM | NET SIZE | | TYPE | MFGR / MODEL | MATERIAL/ FINISH | GLAZING | | | SCREEN | REMARKS/ DETAILS |
| | | WIDTH | HEIGHT | | | | CLR/ OBSC? | Tempered | U/ SHGC | | |
| 01R | BDRM 1 | 30" | 44" | CASEMENT | tbd | ALUM/ BLCK | CLR | <input type="checkbox"/> | 0.30 / 0.23 | | |
| 02R | BDRM 1 | 30" | 44" | FIXED | tbd | ALUM/ BLCK | CLR | <input type="checkbox"/> | 0.30 / 0.23 | | |
| 03R | BDRM 1 | 30" | 44" | FIXED | tbd | ALUM/ BLCK | CLR | <input type="checkbox"/> | 0.30 / 0.23 | | |
| 04R | BDRM 1 | 30" | 44" | CASEMENT | tbd | ALUM/ BLCK | CLR | <input type="checkbox"/> | 0.30 / 0.23 | | EGRESS |
| 05R | ENTRY | 82 15/16" | 54" | FIXED | tbd | ALUM/ BLCK | CLR | <input type="checkbox"/> | 0.30 / 0.23 | -- | |
| 06R | LIVING RM. | 54" | 73 3/8" | FIXED/ AWN. | tbd | ALUM/ BLCK | CLR | <input type="checkbox"/> | 0.30 / 0.23 | | |
| 07R | LIVING RM. | 54" | 73 3/8" | FIXED/ AWN. | tbd | ALUM/ BLCK | CLR | <input type="checkbox"/> | 0.30 / 0.23 | | |
| 08R | LIVING RM. | 54" | 73 3/8" | FIXED | tbd | ALUM/ BLCK | CLR | <input type="checkbox"/> | 0.30 / 0.23 | | |
| 09R | LIVING RM. | 54" | 73 3/8" | FIXED | tbd | ALUM/ BLCK | CLR | <input type="checkbox"/> | 0.30 / 0.23 | | |
| 10R | LIVING RM. | 54" | 73 3/8" | FIXED | tbd | ALUM/ BLCK | CLR | <input type="checkbox"/> | 0.30 / 0.23 | | |
| 11R | LIVING RM. | 54" | 73 3/8" | FIXED | tbd | ALUM/ BLCK | CLR | <input type="checkbox"/> | 0.30 / 0.23 | | |
| 12R | LIVING RM. | 54" | 73 3/8" | FIXED/ AWN. | tbd | ALUM/ BLCK | CLR | <input type="checkbox"/> | 0.30 / 0.23 | | |
| 13R | LIVING RM. | 54 1/2" | 73 3/8" | FIXED/ AWN. | tbd | ALUM/ BLCK | CLR | <input type="checkbox"/> | 0.30 / 0.23 | | |
| 14R | LIVING RM. | 54" | 73 3/8" | FIXED/ AWN. | tbd | ALUM/ BLCK | CLR | <input type="checkbox"/> | 0.30 / 0.23 | | |
| 15R | KITCHEN | 74 1/4" | 47 3/4" | AWNING | tbd | ALUM/ BLCK | CLR | <input type="checkbox"/> | 0.30 / 0.23 | | |
| 16N | P. BDRM | 36 5/8" | 73 3/8" | FIXED | tbd | ALUM/ BLCK | CLR | <input type="checkbox"/> | 0.30 / 0.23 | | |
| 17N | P. BATH | 82 1/2" | 88" | AWN./ FIXED | tbd | ALUM/ BLCK | OBSC. | <input type="checkbox"/> | 0.30 / 0.23 | | |
| 18R | LIBRARY | 46 5/8" | 72" | FIXED | tbd | ALUM/ BLCK | CLR | <input type="checkbox"/> | 0.30 / 0.23 | | |
| 19R | LIBRARY | 46 1/2" | 72" | FIXED | tbd | ALUM/ BLCK | CLR | <input type="checkbox"/> | 0.30 / 0.23 | | |
| 20N | BATH 2 | 36" | 22" | AWNING | tbd | ALUM/ BLCK | CLR | <input type="checkbox"/> | 0.30 / 0.23 | | |
| 21R | BDRM 1 | 93 1/2" | 22 3/8" | SLIDER | tbd | ALUM/ BLCK | CLR | <input type="checkbox"/> | 0.30 / 0.23 | | |
| 22R | BDRM 1 | 54" | 73 3/8" | FIXED | tbd | ALUM/ BLCK | CLR | <input type="checkbox"/> | 0.30 / 0.23 | | |



**Reviewed for Code Compliance
As Verified by Field Inspection**

Permit Number: 178617

Date: 2/6/2025

building Lab

design / construction / fabrication

www.buildinglab.com

HANKE RESIDENCE

APN: 191-161-05

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issue

BLDG. PERMIT

24.06.26

△ R1 RESPONSE

24.10.04

△ R2 RESPONSE

24.12.18

issue

date

drawn by

checked by

WINDOW AND DOOR SCHEDULE

sheet no.

A7.1

MEP LEGEND

NOTE:
1: LAYOUT OF OUTLETS PER CODE. V.I.F.
2: ALL NEW LIGHTING FIXTURES TO BE LED

ABBREVIATIONS
(E) EXISTING
(R) REPLACE (E)
WP WATER PROOF

ELECTRICAL MECHANICAL PLUMBING SYMBOL LEGEND:

LED RECESSED LIGHT

PENDANT LIGHT

LED CEILING MOUNT LIGHT

WALL MOUNTED LIGHT

LED STRIP LIGHT

LED DIRECTIONAL RECESSED LIGHT

LED STEP LIGHT

LED SPOT LIGHT ON FLOOR

LED TRACK LIGHT

LED PANEL LIGHT

LOCATE ITEM IN CABINET OR HIDDEN SWITCH

3 WAY SWITCH

DIMMER SWITCH

VACANCY SENSOR SWITCH

HUMIDISTAT SWITCH

JAMB SWITCH

AIR SWITCH

ASTRONOMICAL SWITCH

WIRE PASS-THRU PLATE

ELEC. DUPLEX RECEPTACLE (WALL) ARC FAULT CIRCUIT INTERRUPTER RECEPTACLE

ELEC. DUPLEX RECEPTACLE (WALL) GFCI WATERPROOF

ELEC. QUAD RECEPTACLE (WALL)

ELEC. OUTLET (FLR)

ELEC. OUTLET (CEILING)

GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE

PLUGMOLD

BLANK PLATE

ELEC. METER

ELEC. MAIN PANEL

ELEC. SUBPANEL

TRANSFORMER

THERMOSTAT

DOOR OR GATE OPERATOR

SECURITY ALARM KEYPAD

TELEPHONE JACK

DATA (CAT 5 ETHERNET CABLE)

TV CABLE

HDMI CABLE

RECESSED MEDIA PLATE

DOOR BUZZER OR INTERCOM

DOOR CHIME

ALARM BELL

MOTION DETECTOR

CABLE MODEM

VACUUM INLET

COMB. OF CARBON MONOXIDE / SMOKE DETECTOR, HARDWIRED

SMOKE DETECTOR, HARDWIRED

CARBON MONOXIDE DETECTOR, HARDWIRED

BATTERY OPERATED

SPEAKER

ITEM ON WALL

SUPPLY OR RETURN AIR GRILLE ON FLOOR

SUPPLY OR RETURN AIR GRILLE ON WALL

SUPPLY OR RETURN AIR GRILLE ON CEILING

FAN

FAN W/ LIGHT

WATER METER

MAIN WATER SHUT OFF

COLD WATER SHUT OFF

HOT WATER SHUT OFF

DRAIN

WATER BIB

GARBAGE DISPOSER

GAS METER

GAS SHUTOFF

DOWN SPOUT

FLR DRAIN

CLEAN OUT

IN LINE WATER FILTER

FIRE SPRINKLER

WATER

GAS

SANITARY SEWER

ELECTRIC LINE

EJECTOR PUMP

FOUNDATION DRAIN PER S.S.D.

TRENCH DRAIN

SURFACE DRAIN

SOLID ABS PIPE

ENERGY DISSIPATOR

SLOPE (UP OR DN) DIRECTION OF FLOW

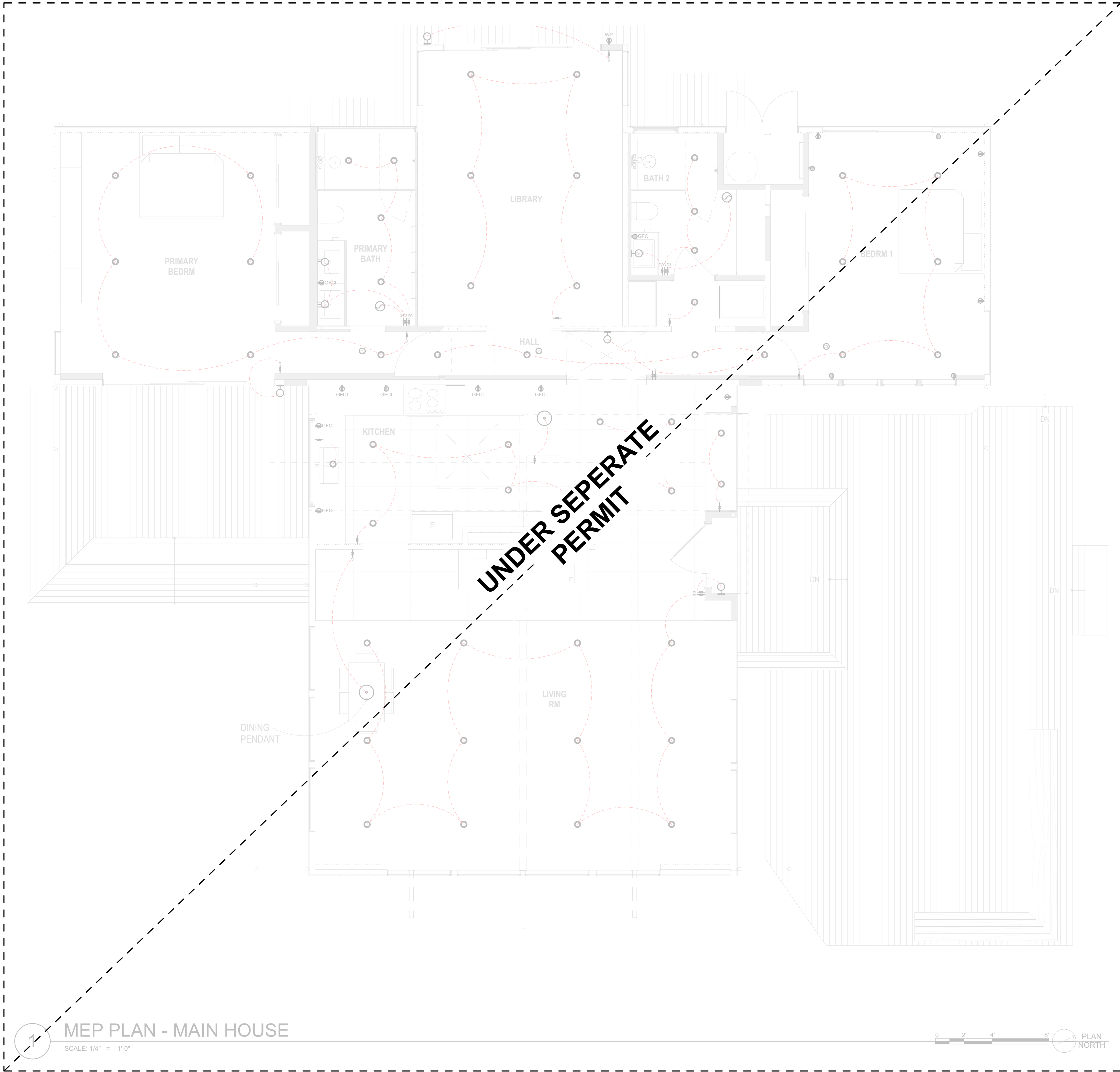
OVERLAP-NON-INTERSECTING LOCATION OF INVERSION

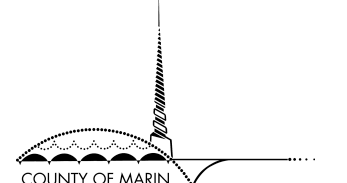
DOWNSPOUT

CLEAN OUT

ELECTRICAL & LIGHTING NOTES

- GENERAL:
- SEE GENERAL NOTES FOR APPLICABLE BUILDING CODES. REFER TO T24 ENERGY COMPLIANCE DOCUMENTATION FOR SPECIFIC REQUIREMENTS.
 - ALL ELECTRICAL SYSTEMS TO BE DESIGN/BUILD BY THE ELECTRICAL SUBCONTRACTOR.
 - ALL EQUIPMENT SHALL BE INSTALLED AND USED IN ACCORDANCE WITH THE LISTING REQUIREMENTS AND MANUFACTURERS INSTRUCTIONS.
 - ELECTRICAL SUBCONTRACTOR TO PROVIDE ALL PRODUCT INSTALLATION AND USAGE MANUALS FOR ALL EQUIPMENT AND MATERIALS INSTALLED. INSTRUCT OWNERS ON OPERATION OF ALL EQUIPMENT.
 - ALL ELECTRICAL EQUIPMENT, METAL BOXES, COVER PLATES AND PLASTER RINGS SHALL BE GROUNDED. ALL ELECTRICAL OUTLETS TO BE GFCI PROTECTED AT BATHROOMS, GARAGES, AT-GRADE STORAGE AND WORK AREAS, EXTERIOR LOCATIONS, CRAWL SPACES, UNFINISHED BASEMENT WORK AND STORAGE AREAS, KITCHEN COUNTERTOP RECEPTACLES, LAUNDRY, UTILITY, AND WET BAR RECEPTACLES WITHIN 6 FT. OF SINK EDGE.
 - LOCATION OF ALARM CONTROLS TO BE VERIFIED WITH BUILDING LAB IN THE FIELD.
 - 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)
 - PROVIDE A MINIMUM OF ONE 20 AMP RECEPTACLE IN AREAS DESIGNATED FOR LAUNDRY EQUIPMENT. (CEC 210.52F)
 - 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)
 - 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)
 - 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)
 - BOND ALL METAL GAS AND WATER PIPES TO GROUND. ALL GROUND CLAMPS MUST BE ACCESSIBLE AND OF AN APPROVED TYPE. (CEC 250.104)
 - 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)
 - 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)
 - 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)
 - 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)
 - 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)
 - 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)
 - BATHROOMS TO HAVE MECHANICAL VENTING, MIN. 50 CUBIC FEET PER MINUTE, EXHAUSTED THROUGH THE ROOF. EACH BATHROOM (WITH TUB OR SHOWER) SHALL INCLUDE THE FOLLOWING:
 - ENERGY STAR FANS DUCTED TO THE OUTSIDE OF THE BUILDING AND
 - FANS MUST BE CONTROLLED BY A HUMIDITY CONTROLLER OR FUNCTIONING AS A COMPONENT OF A WHOLE HOUSE VENTILATION SYSTEM AND
 - HUMIDITY CONTROLS MUST HAVE A MANUAL OR AUTOMATIC MEANS OF ADJUSTMENT, CAPABLE OF ADJUSTING BETWEEN A RELATIVE HUMIDITY RANGE OF LESS THAN OR EQUAL TO 50% UP TO A MAXIMUM OF 80%.
 - PROVIDE AT LEAST ONE 20-AMP CIRCUIT FOR BATHROOM OUTLETS, WITH NO OTHER OUTLETS ON THE CIRCUIT. §210.11(C)(3).





Reviewed for Code Compliance
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Permit Number: 178617
Date: 2/6/2025

building Lab

design / construction / fabrication

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issue

BLDG. PERMIT 24.06.26

R1 RESPONSE 24.10.04

R2 RESPONSE 24.12.18

issue

date

drawn by

checked by

(N) MEP GROUND FLOOR PLAN - MAIN HOUSE

sheet no.

A8.1

MEP LEGEND

NOTE:
1: LAYOUT OF OUTLETS PER CODE. V.I.F.
2: ALL NEW LIGHTING FIXTURES TO BE LED

ABBREVIATIONS
(E) EXISTING
(R) REPLACE (E)
WP WATER PROOF

ELECTRICAL MECHANICAL PLUMBING SYMBOL LEGEND:

LED RECESSED LIGHT

PENDANT LIGHT

LED CEILING MOUNT LIGHT

WALL MOUNTED LIGHT

LED STRIP LIGHT

LED DIRECTIONAL RECESSED LIGHT

LED STEP LIGHT

LED SPOT LIGHT ON FLOOR

LED TRACK LIGHT

LED PANEL LIGHT

LOCATE ITEM IN CABINET OR HIDDEN SWITCH

3 WAY SWITCH

DIMMER SWITCH

OCCUPANCY SENSOR SWITCH

VACANCY SENSOR SWITCH

HUMIDISTAT SWITCH

JAMB SWITCH

AIR SWITCH

ASTRONOMICAL SWITCH

WIRE PASS-THRU PLATE

ELEC. DUPLEX RECEPTACLE (WALL) ARC FAULT CIRCUIT INTERRUPTER RECEPTACLE

ELEC. DUPLEX RECEPTACLE (WALL) GFCI WATERPROOF

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GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE

PLUGMOLD

BLANK PLATE

ELEC. METER

ELEC. MAIN PANEL

ELEC. SUBPANEL

TRANSFORMER

THERMOSTAT

DOOR OR GATE OPERATOR

SECURITY ALARM KEYPAD

TELEPHONE JACK

DATA (CAT 5 ETHERNET CABLE)

TV CABLE

HDMI CABLE

RECESSED MEDIA PLATE

DOOR BUZZER OR INTERCOM

DOOR CHIME

ALARM BELL

MOTION DETECTOR

CABLE MODEM

VACUUM INLET

COMB. OF CARBON MONOXIDE / SMOKE DETECTOR, HARDWIRED

SMOKE DETECTOR, HARDWIRED

CARBON MONOXIDE DETECTOR, HARDWIRED

BATTERY OPERATED

SPEAKER

ITEM ON WALL

SUPPLY OR RETURN AIR GRILLE ON FLOOR

SUPPLY OR RETURN AIR GRILLE ON WALL

SUPPLY OR RETURN AIR GRILLE ON CEILING

FAN

FAN W/ LIGHT

WATER METER

MAIN WATER SHUT OFF

COLD WATER SHUT OFF

HOT WATER SHUT OFF

DRAIN

WATER BIB

GARBAGE DISPOSER

GAS METER

GAS SHUTOFF

DOWN SPOUT

FLR DRAIN

CLEAN OUT

IN LINE WATER FILTER

FIRE SPRINKLER

WATER

GAS

SANITARY SEWER

ELECTRIC LINE

EJECTOR PUMP

FOUNDATION DRAIN PER S.S.D.

TRENCH DRAIN

SURFACE DRAIN

SOLID ABS PIPE

ENERGY DISSIPATOR

SLOPE (UP OR DN) DIRECTION OF FLOW

OVERLAP-NON-INTERSECTING LOCATION OF INVERSION

DOWNSPOUT

CLEAN OUT

22. CLOTHES CLOSET LIGHT FIXTURE CLEARANCES SHALL CONFORM TO §410.16. INCANDESCENT FIXTURES WITH OPEN OR PARTIALLY ENCLOSED LAMPS AND PENDANT FIXTURES OR LAMP HOLDERS ARE NOT ALLOWED IN CLOSETS.

23. LIGHT FIXTURES WITHIN THE OUTSIDE DIMENSION OF TUB OR SHOWER ENCLOSURES OR LESS THAN 8" VERTICALLY FROM THE TOP OF THE BATHTUB RIM OR SHOWER THRESHOLD, OR IN OTHER WET/DAMP LOCATIONS SHALL BE LABELED "SUITABLE FOR DAMP LOCATIONS" (OR "SUITABLE FOR WET LOCATIONS" IF SUBJECT TO SHOWER SPRAY OR RAIN. §410.10(A) AND (D)

24. SMOKE AND CARBON MONOXIDE DETECTORS SHALL BE EQUIPPED WITH BATTERY BACKUP PER CRC §R314 AND §R315.

25. ALL PLUMBING FIXTURES WITHIN THE BUILDING THAT ARE NON-COMPLIANT SHALL BE UPGRADED WITH WATER CONSERVING PLUMBING FIXTURES.

26. IF LIGHTING IS TO BE NEWLY INSTALLED- NEWLY INSTALLED LUMINAIRES INSTALLED IN WET OR DAMP LOCATIONS SHALL BE INSTALLED SUCH THAT WATER CANNOT ENTER OR ACCUMULATE IN WIRING COMPARTMENTS, LAMPHOLDERS, OR OTHER ELECTRICAL PARTS. IF LUMINAIRE IS TO BE NEWLY INSTALLED ADD THE FOLLOWING NOTE TO THE PLANS: "ALL LUMINAIRES INSTALLED IN WET LOCATIONS SHALL BE MARKED "SUITABLE FOR WET LOCATIONS." ALL LUMINAIRES INSTALLED IN DAMP LOCATIONS SHALL BE RATED "SUITABLE FOR WET LOCATIONS" OR "SUITABLE FOR DAMP LOCATIONS." CEC 410.10(A)

27.THE SCOPE OF THIS PROJECT IS SUCH THAT IT WILL BE UNSAFE TO OCCUPY THE BUILDING DURING THE COURSE OF CONSTRUCTION. STATE ONE OF THESE TWO OPTIONS ON THE TITLE SHEET OF THE PLANS:

"THE EXISTING ELECTRIC SERVICE PANEL MAY REMAIN IN PLACE BUT THE PANEL'S INTERIOR ENERGIZING COMPONENTS SHALL BE REMOVED AND REPLACED BY NO GREATER THAN (3) 120V AND (1) 220V"TWIST-LOCK" RECEPTACLES. INSPECTION OF THE ALTERED PANEL AS DESCRIBED SHALL BE THE FIRST INSPECTION REQUESTED. THERE SHALL BE NO FURTHER INSPECTIONS UNTIL THE TEMPORARY POWER INSTALLATION HAS BEEN APPROVED BY THE CITY OF MILL VALLEY."

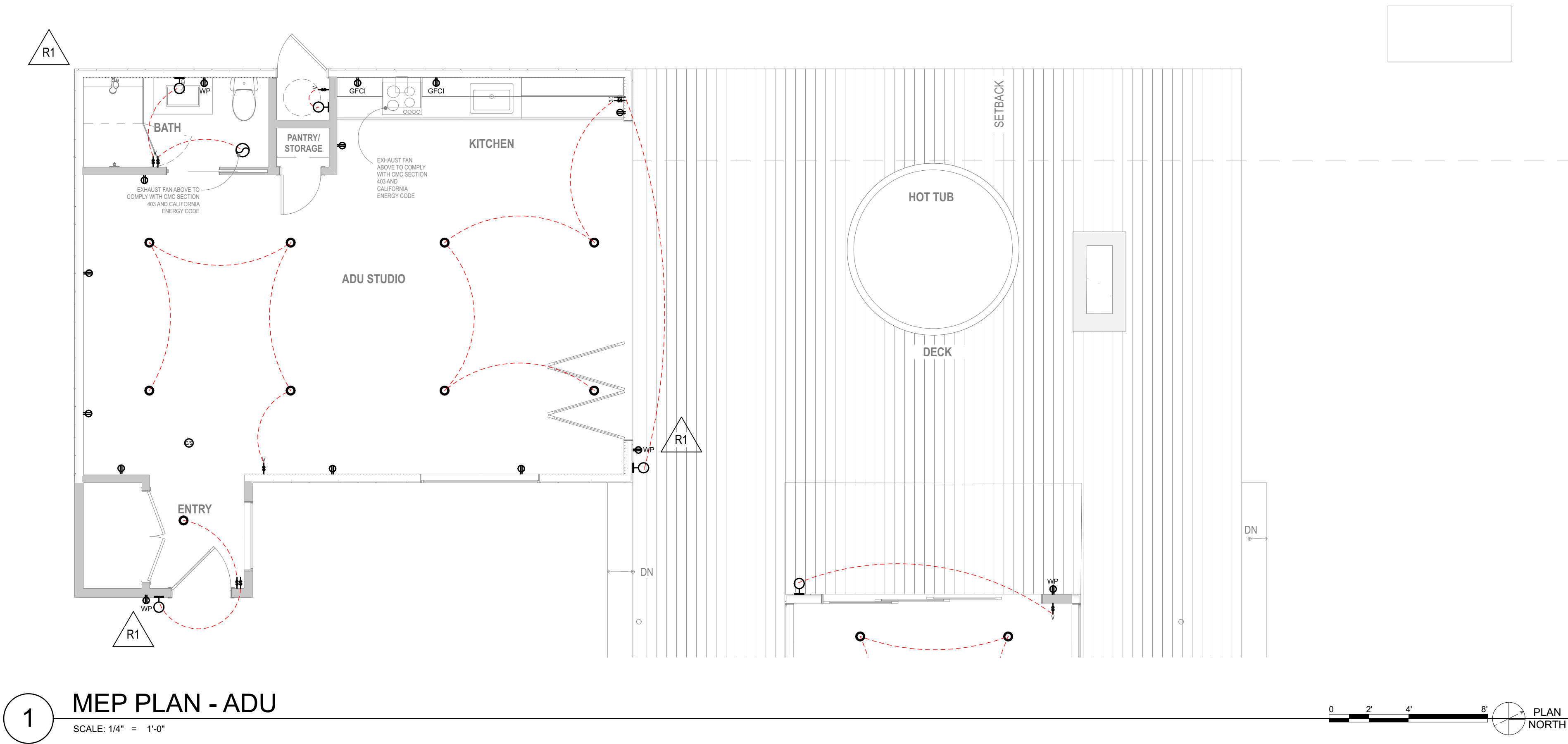
28. "PRODUCT AND UL (OR OTHER RECOGNIZED AGENCY) LISTING INFORMATION FOR ALL APPLIANCES SHALL BE SUBMITTED TO AND APPROVED BY THE CITY OF MILL VALLEY PLANNING AND BUILDING DEPARTMENT PRIOR TO INSTALLATION."

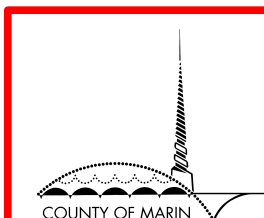
ENERGY EFFICIENCY
4.201.1 SCOPE. BUILDING MEETS OR EXCEEDS THE REQUIREMENTS OF THE CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS.

WATER EFFICIENCY AND CONSERVATION
4.303.1 PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) INSTALLED IN RESIDENTIAL BUILDINGS SHALL COMPLY WITH THE FOLLOWING PRESCRIPTIVE REQUIREMENTS:
• WATERS CLOSETS: ≤ 1.28 GAL/FLUSH
• URINALS: ≤ 0.125 GAL/FLUSH
• SINGLE SHOWERHEADS: ≤ 1.8 GPM @ 80 PSI
• MULTIPLE SHOWERHEADS: COMBINED FLOW RATE OF ALL SHOWERHEADS AND/OR OTHER SHOWER OUTLETS CONTROLLED BY A SINGLE VALVE SHALL NOT EXCEED 1.8 GPM @ 80 PSI OR ONLY ONE SHOWER OUTLET IS TO BE IN OPERATION AT A TIME
• RESIDENTIAL LAVATORY FAUCETS: ≤ 1.2 GPM @ 60 PSI
• KITCHEN FAUCETS: ≤ 1.8 GPM @ 60 PSI
4.303.2 PLUMBING FIXTURES AND FITTINGS REQUIRED IN SECTION 4.303.1 SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE, AND SHALL MEET THE APPLICABLE REFERENCED STANDARDS.

ENVIRONMENTAL QUALITY
4.507.2: HEATING AND AIR CONDITIONING SYSTEM DESIGN: MECHANICAL DESIGNER OR INSTALLER TO PROVIDE ACCA J, D, & S CALCULATIONS TO SPECIAL INSPECTOR FOR VERIFICATION.

4.507.2: HEATING AND AIR CONDITIONING SYSTEM DESIGN: MECHANICAL DESIGNER OR INSTALLER TO PROVIDE ACCA J, D, & S CALCULATIONS TO SPECIAL INSPECTOR FOR VERIFICATION





COUNTY OF MARIN

Reviewed for Code Compliance
As Verified by Field Inspection

Permit Number: 178617

Date: 2/6/2025

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issue

BLDG. PERMIT

24.06.26

△ R1 RESPONSE

24.10.04

△ R2 RESPONSE

24.12.18

issue

date

drawn by

checked by

(N) MEP GROUND FLOOR PLAN - ADU

sheet no.

A8.2

STRUCTURAL NOTES

1. GENERAL

- A. ALL CONSTRUCTION SHALL CONFORM TO THE CALIFORNIA BUILDING CODE, 2022 EDITION AND ANY APPLICABLE LOCAL ORDINANCES.
- B. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT JOB SITE BEFORE COMMENCING WORK AND SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT.
- C. OMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE DRAWINGS, NOTES, AND DETAILS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER AND RESOLVED BEFORE PROCEEDING WITH THE WORK.
- D. DO NOT USE SCALED DIMENSIONS; USE WRITTEN DIMENSIONS OR WHERE NO DIMENSION IS PROVIDED, CONSULT THE ARCHITECT FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
- E. DETAILS SHOWN SHALL BE INCORPORATED INTO THE PROJECT AT ALL APPROPRIATE LOCATIONS WHETHER SPECIFICALLY CALLED OUT OR NOT.
- F. THESE DRAWINGS ARE TO SHOW STRUCTURAL INFORMATION ONLY. FOR ALL NON-STRUCTURAL INFORMATION AND DETAILS INCLUDING BUT NOT LIMITED TO WATERPROOFING, DRAINAGE, FINISHES, ACCESSIBILITY, FIRE PROTECTION, ETC. REFER TO ARCHITECT'S DRAWINGS.
- G. HOLES AND OPENINGS THROUGH WALLS AND FLOOR DUCTS, PIPING, AND VENTILATION SHALL BE CHECKED BY THE CONTRACTOR, WHO SHALL VERIFY SIZES AND LOCATION OF SUCH HOLES OR OPENINGS WITH THE PLUMBING, HEATING, VENTILATION AND ELECTRICAL DRAWINGS AND THESE SUBCONTRACTORS.
- H. DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY SHORING AND MEANS AND METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL UNDERTAKE ALL NECESSARY MEASURES TO INSURE SAFETY OF ALL PERSONS AND STRUCTURES AT THE SITE AND ADJACENT TO THE SITE. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT/ENGINEER SHALL NOT RELIEVE THE CONTRACTOR OF SUCH RESPONSIBILITY.
- I. AS EXCAVATION PROGRESSES, CONDITIONS MAY DEVELOP REQUIRING CHANGES. CONTACT THE ENGINEER OF RECORD.
- J. WHEREVER PRACTICAL, EXCAVATIONS SHALL BE MADE AS NEAR AS POSSIBLE TO THE NEAT LINES REQUIRED BY THE SIZE AND SHAPE OF THE STRUCTURE. NO MATERIAL IS TO BE EXCAVATED UNNECESSARILY.

2. DESIGN CRITERIA

- A. STRUCTURAL DESIGN PER CHAPTER 16 OF THE CALIFORNIA BUILDING CODE, EDITION 2022 USING ALLOWABLE STRESS DESIGN (ASD).
- B. DEAD LOADS
- | | |
|--------|--------|
| ROOF: | 15 PSF |
| FLOOR: | 15 PSF |
| DECK: | 8 PSF |
- C. LIVE LOADS (REDUCIBLE)
- | | |
|---------------|--------|
| ROOF: | 20 PSF |
| FLOOR/STAIRS: | 40 PSF |
| DECK: | 60 PSF |
- D. LATERAL LOADS
1. SEISMIC (DESIGN CATEGORY D)
- EQUVALENT LATERAL FORCE PROCEDURE
 $V = C_s W$ $C_s = S_{DS} / R_1$ $S_{DS} = 1.51$ $R = 6.5$ $I = 1.0$
2. WIND (91 MPH, EXPOSURE D) ENVELOPE PROCEDURE

3. EXISTING CONDITIONS

- A. EXISTING STRUCTURAL ELEMENTS SHOWN ON THESE DRAWINGS ARE REPRESENTED BASED ON EXISTING DRAWINGS (IF AVAILABLE), DOCUMENTATION BY OTHERS, AND KNOWN CONSTRUCTION PRACTICES. MOSSWOOD ENGINEERING DOES NOT WARRANT THAT THESE CONDITIONS ARE REPRESENTATIVE OF THOSE EXISTING. THE OWNER AND CONTRACTOR SHALL INVESTIGATE EXISTING CONDITIONS PRIOR TO START OF CONSTRUCTION.
- B. WHERE DRAWINGS INDICATE EXISTING CONDITIONS, OR VERIFY IN FIELD (V.I.F.), IT IS REQUIRED THAT THE CONTRACTOR EITHER VERIFY THE EXISTING CONDITION, PROVIDE NEW MATERIALS TO CREATE SUCH CONDITION, OR NOTIFY THE ENGINEER OF CONFLICTING CONDITIONS.
- C. THE CONTRACTOR SHALL IMMEDIATELY INFORM THE ENGINEER IF VISUAL OBSERVATION OR DEMOLITION EXPOSE CONDITIONS THAT CONFLICT WITH THE DRAWING.

1. GEOTECHNICAL NOTES

- A. FOUNDATION DESIGN PER SOILS REPORT BY: SALEM HOWES ASSOCIATES
1202 GRANT AVENUE, STE F
NOVATO, CA 94945
(415) 892-8528
- B. MINIMUM FOUNDED DEPTH OF FOOTINGS:
- | | |
|-----------------------------|-----------|
| BELOW LOWEST EXTERIOR GRADE | 18 INCHES |
|-----------------------------|-----------|
- C. MINIMUM WIDTH OF FOOTINGS:
- | | |
|----------------------------|-------------|
| CONTINUOUS SPREAD FOOTINGS | 12 INCHES |
| ISOLATED SPREAD FOOTINGS | NOT ALLOWED |
- D. ALLOWABLE BEARING PRESSURES:
- | | |
|-----------------------|----------|
| DEAD LOAD + LIVE LOAD | 3000 PSF |
| TOTAL LOAD | 4000 PSF |
- E. ALL FOUNDATIONS SHALL BEAR ON FIRM, UNDISTURBED, NATIVE SOILS OR ENGINEERED FILLS AT, OR EXCEEDING, DEPTHS SHOWN ON THE DRAWINGS.
- F. ALL FOOTING EXCAVATIONS SHALL BE NEAT. OVER EXCAVATIONS IN DEPTH AND WIDTH SHALL BE FILLED WITH CONCRETE. ALL LOOSE SOILS SHALL BE REMOVED FROM EXCAVATIONS PRIOR TO PLACEMENT OF CONCRETE.
- G. SOIL REMOVAL AND RECOMPACTION SHALL BE PER GEOTECHNICAL INVESTIGATION AND CONTRACT DOCUMENTS. SOILS WORK SHALL BE OBSERVED AND TESTED BY THE GEOTECHNICAL ENGINEER.

- H. GEOTECHNICAL ENGINEER SHALL OBSERVE FOOTING EXCAVATIONS BEFORE PLACEMENT OF REINFORCING OR CONCRETE. FOOTING OBSERVATION AND COMPACTION REPORTS SHALL BE SENT TO THE ENGINEER AND BUILDING OFFICIAL.
- I. ROOF AND AREA DRAINAGE SHALL BE DIRECTED AWAY FROM THE FOUNDATIONS.
- J. EXCAVATIONS SHALL BE PROPERLY BACKFILLED. BACKFILL FOR WALLS SHALL BE PERVIOUS MATERIAL ACCEPTABLE TO THE GEOTECHNICAL ENGINEER. DO NOT PLACE BACKFILL BEHIND WALLS BEFORE THEY HAVE ATTAINED THEIR DESIGN STRENGTH. SHORE AND PROTECT WALLS FROM LATERAL LOADS UNTIL THE SUPPORTING MEMBERS ARE IN PLACE AND HAVE DEVELOPED SPECIFIED STRENGTHS.

5. CONCRETE

- A. REINFORCE ALL CONCRETE. INSTALL ALL INSERTS, BOLTS, ANCHORS, AND REINFORCING AND SECURELY TIE PRIOR TO PLACING CONCRETE.
- B. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150 TYPE II, LOW ALKALI. CEMENT QUANTITY TO COMPLY WITH LOW CARBON REQUIREMENTS. SEE SHEET S2.3 FOR REQUIREMENTS.
- C. CONCRETE SHALL BE HARDROCK CONCRETE AND SHALL ATTAIN THE FOLLOWING ULTIMATE COMPRESSIVE STRENGTHS AT 28 DAYS.
- | LOCATION | MIN. STRENGTH
@ 28 DAYS -- PSI | MAX. AGG.
SIZE -- INCHES | MAX. SLUMP --
INCHES |
|--------------------------|-----------------------------------|-----------------------------|-------------------------|
| FOOTINGS | 2500 | 3/4 | 4 |
| MAT SLAB/ GRADE BEAMS | 3000* | 3/4 | 4 |
| SLAB ON GRADE | 2500 | 3/8 | 4 |
- *DESIGNED FOR 2500 PSI. NO SPECIAL INSPECTION REQUIRED.

- D. CONCRETE SHALL BE CONTINUOUSLY CURED FOR 10 DAYS AFTER PLACING IN ANY APPROVED MANNER, INCLUDING CURING COMPOUND, CURING PAPER, ETC. NOTE: FOOTINGS ARE EXCEPTED FROM THIS REQUIREMENT.
- E. WHEN PLACING NEW CONCRETE OR SHOTCRETE AGAINST EXISTING CONCRETE OR MASONRY, ROUGHEN SURFACE OF EXISTING MATERIAL BY EITHER SANDBLASTING OR SCARIFYING TO 1/4" AMPLITUDE AND APPLY BONDING AGENT. BONDING AGENT SHALL BE LARSEN PRODUCTS CORPORATION'S WELD-CRETE OR APPROVED EQUIVALENT. AT EXISTING BRICK, ROUGHENING NOT REQUIRED IF EXISTING BRICK HAS A NATURAL ROUGH SURFACE. BONDING AGENT IS NOT REQUIRED AT EXISTING BRICK SURFACE UNLESS OTHERWISE NOTED ON PLANS AND/OR DETAILS.

6. REINFORCING STEEL

- A. ALL REINFORCING STEEL BARS EXCEPT AS NOTED BELOW SHALL CONFORM WITH THE STANDARD SPECIFICATIONS FOR DEFORMED BILLET-STEEL FOR CONCRETE REINFORCEMENT, ASTM DESIGNATION A615 LATEST EDITION, GRADE 60.
- B. WELDING OF REINFORCEMENT BARS SHALL COMPLY WITH AWS SECTION D1.4. USE GRADE A706 UNLESS SHOWN OTHERWISE.
- C. SUITABLE DEVICES OF STANDARD MANUFACTURER SHALL BE USED TO HOLD REINFORCEMENTS IN ITS TRUE HORIZONTAL AND VERTICAL POSITIONS. THESE DEVICES SHALL BE SUFFICIENTLY RIGID AND NUMEROUS TO PREVENT DISPLACEMENT OF THE REINFORCING DURING PLACING OF CONCRETE.
- D. LAP SPLICE ALL BARS A MINIMUM OF 48 BAR DIAMETERS, UNLESS OTHERWISE NOTED. STAGGER ALL LAPS A MINIMUM OF 24 INCHES.
- E. UNLESS OTHERWISE NOTED, MAINTAIN COVERAGE TO FACE OF BARS AS FOLLOWS (PER ACI 318, SECTION 1905):
1. 3" FOR CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH.
2. 2" FOR #6 AND LARGER, 1-1/2" FOR #5 AND SMALLER, FOR CONCRETE EXPOSED TO EARTH OR WEATHER.
3. 3/4" FOR #11 AND SMALLER, FOR SLABS, WALLS & JOISTS. FOR CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND.

7. SAWN LUMBER

- A. SAWN LUMBER SHALL CONFORM TO WEST COAST LUMBER INSPECTION BUREAU OR WESTERN WOOD PRODUCTS ASSOCIATION GRADING RULES. FSC CERTIFIED LUMBER IS PREFERRED.
- B. LUMBER SHALL BE THE SPECIES AND GRADE NOTED BELOW UNLESS OTHERWISE NOTED ON PLAN:
- | USE | SPECIES/GRADE | F _b (PSI) |
|----------------------------|---------------------|----------------------|
| STUDS 2" AND WIDER | DF-LARCH STUD GRADE | 700 |
| DIM. LUMBER 2" TO 4" THICK | DF-LARCH #1 | 1000 |
| BEAMS 5" x 5" AND GREATER | DF-LARCH #1 | 1350 |
| POSTS 5"x5" AND GREATER | DF-LARCH #1 | 1250 |
- C. ALL LUMBER IN CONTACT WITH CONCRETE OR CMU SHALL BE PRESSURE TREATED, UNLESS AN APPROVED MOISTURE BARRIER IS PROVIDED.
- D. FRAMING ACCESSORIES AND STRUCTURAL FASTENERS SHALL BE MANUFACTURED BY SIMPSON STRONG TIE (OR APPROVED EQUAL) AND OF THE SIZE AND TYPE SHOWN ON THE DRAWINGS. ALL NAIL HOLES SHALL BE FILLED WITH STRUCTURAL FASTENERS, UNLESS NOTED OTHERWISE ON THE DRAWINGS. FASTENERS SHALL BE INSTALLED FOLLOWING ALL MANUFACTURER'S REQUIREMENTS. ALLOWABLE LOADS FOR THE SUBSTITUTED ACCESSORIES SHALL HAVE AN EQUAL OR GREATER CAPACITY THAN THE SIMPSON ACCESSORIES. FASTENERS FOR PRESSURE TREATED WOOD SHALL BE HOT-DIPPED ZINC COATED GALVANIZED, STAINLESS STEEL, SILICON BRONZE, OR COPPER PER CBC 2304.10.5.

- E. ALL FRAMING NAILS SHALL BE OF THE SIZE AND NUMBER INDICATED ON THE DRAWINGS AND CONFORM TO ASTM F 1667, "STANDARD SPECIFICATION OF DRIVEN FASTENERS: NAILS, SPIKES, AND STAPLES" AND NER-272 "POWER-DRIVEN STAPLES AND NAILS FOR USE IN ALL TYPES OF BUILDING CONSTRUCTION." NAILS SHALL BE IDENTIFIED BY LABELS (ATTACHED TO THEIR CONTAINERS) THAT SHOW THE MANUFACTURER'S NAME AND NES REPORT NUMBER, NAIL SHANK DIAMETER, AND LENGTH. NAILING NOT SHOWN SHALL BE AS INDICATED ON 2022 CBC TABLE 2304.10.1. THE FOLLOWING NAIL SIZES SHALL BE USED:

| NAIL TYPE | SHANK DIAMETER (IN.) | MINIMUM PENETRATION INTO FRAMING MEMBER (IN.) |
|-----------|----------------------|---|
| 8d | 0.131 | 1.625 |
| 10d | 0.148 | 1.75 |
| 16d | 0.162 | 2 |

- F. BOLTS AND LAG SCREWS SHALL CONFORM TO ANSI/ASME STANDARD B18.2.1-1981. ALL BOLTS AND LAG SCREWS SHALL BE INSTALLED WITH STANDARD CUT WASHERS. ALL A307 BOLTS SHALL HAVE CUT THREADS.

- G. STRUCTURAL SCREWS TO BE "RSS RUGGED STRUCTURAL SCREW" BY GRK FASTENERS, A DIVISION OF ILLINOIS TOOL WORKS, INC. SIMPSON SDS SCREWS OF THE SAME LENGTH MAY BE SUBSTITUTED.

- H. SALVAGED LUMBER SHALL BE GRADES BY AN APPROVED GRADING AGENCY PRIOR TO USE AND SHALL MEET THE MINIMUM BENDING STRESSES SHOWN ABOVE.

8. WOOD STRUCTURAL PANELS

- A. UNLESS NOTED OTHERWISE, PANELS SHALL BE APA RATED SHEATHING, STRUCTURAL 1, OF THE THICKNESS AND SPAN RATING SHOWN ON THE DRAWINGS.
- B. WOOD STRUCTURAL PANEL INSTALLATION SHALL BE IN CONFORMANCE WITH APA RECOMMENDATIONS. ALLOW 1/8" SPACING AT PANEL ENDS AND EDGES, UNLESS OTHERWISE RECOMMENDED BY THE PANEL MANUFACTURER.
- C. ALL ROOF SHEATHING AND SUB-FLOORING SHALL BE INSTALLED WITH FACE GRAIN PERPENDICULAR TO SUPPORTS, EXCEPT AS INDICATED ON THE DRAWINGS.
- D. NEW EXTERIOR WALLS NOT NOTED AS SHEARWALLS SHALL BE SHEATHED WITH ½" CD-X SHEATHING w/ 8d @ 6" o.c. EDGE NAILING AND 8d @ 12" o.c. FIELD NAILING.

9. STRUCTURAL COMPOSITE LUMBER (SCL)

- A. ENGINEERED COMPOSITE WOOD PRODUCTS SUCH AS LAMINATED VENEER LUMBER (MICROLAM), PARALLEL STRAND LUMBER (PARALLAM), AND LAMINATED STRAND LUMBER (TIMBERSTRAND) SHALL BE OF THE SIZE AND TYPE SHOWN ON THE DRAWINGS, MANUFACTURED BY TRUS JOIST MCMILLAN OR AN APPROVED EQUAL.

- B. MEMBERS SHALL HAVE THE FOLLOWING MINIMUM DESIGN PROPERTIES:

| COMPOSITE LUMBER TYPE | MODULUS OF ELASTICITY (PSI) | FLEXURAL STRESS* (PSI) |
|-----------------------|-----------------------------|------------------------|
| PSL | 2,200,000 | 2,900 |
| LVL | 2,000,000 | 2,600 |
| LSL | 1,500,000 | 2,000 |

*FLEXURAL STRESSES ARE FOR A 12-INCH MEMBER. DEEPER MEMBERS SHALL BE DESIGNED FOR REDUCED STRESSES PER THE MANUFACTURER'S REQUIREMENTS.

10. INSTALLING EPOXY-SET DOWELS AND ANCHOR BOLTS

- A. EPOXY OR RESIN ADHESIVE SHALL BE USED IN ALL LOCATIONS WHERE EITHER ALL-THREAD ROD OR REBAR ARE BEING EMBEDDED INTO EXISTING CONCRETE OR MASONRY.
- B. CONTRACTOR SHALL MIX AND INSTALL RESIN AND HARDENER.
- C. HOLES SHALL BE DRILLED WITH ROTARY DRILL. FOR HOLES IN BRICK MASONRY, A HAMMER ACTION DRILL SHALL NOT BE USED. SIZE SHALL BE PER MANUFACTURER'S RECOMMENDATION.
- D. HOLES IN CONCRETE SHALL NOT BE CORE-DRILLED UNLESS SPECIFICALLY NOTED IN THE DETAILS.
- E. EXISTING REINFORCEMENT SHALL NOT BE CUT OR DAMAGED UNLESS PERMITTED IN WRITING BY THE ENGINEER.
- F. IMMEDIATELY BEFORE APPLYING ADHESIVE, HOLES SHALL BE REAMED WITH A CIRCULAR WIRE BRUSH ATTACHED TO A DRILL MOTOR AND THEN BLOWN OUT WITH OIL-FREE COMPRESSED AIR.
- G. ADHESIVE SHALL BE SIMPSON STRONG-TIE'S SET-XP (ICC ESR NO. 2508) OR HILTI'S HIT-RE500 (ICC ESR-2322) ADHESIVE FOR ALL SEISMIC APPLICATIONS INCLUDING SHEARWALL AND HOLDDOWN ANCHOR BOLTS TO EXISTING CONCRETE. SIMPSON STRONG-TIES SET ADHESIVE OR HILTI'S HIT-HY-150 MAX ADHESIVE MAY BE USED FOR ALL OTHER CONDITIONS. ALTERNATES WILL BE CONSIDERED UPON REQUEST AND SUBMISSION OF SPECIFICATIONS AND EVALUATION REPORT.

11. HELICAL PIERS

- A. THE CONTRACTOR SHALL FURNISH ALL NECESSARY ENGINEERING AND DESIGN SERVICES, SUPERVISION, LABOR, TOOLS, MATERIALS, AND EQUIPMENT TO PERFORM ALL WORK NECESSARY TO INSTALL A HELICAL PIER SYSTEM THAT CAN DEVELOP THE LOAD CAPACITIES AS DETAILED ON THESE DRAWINGS AND PER THE GEOTECHNICAL REPORT.
- B. INSTALLERS SHALL HAVE DOCUMENTED CERTIFICATION FROM THE MANUFACTURER AND SHALL HAVE EXPERIENCE IN PERFORMING DESIGN AND CONSTRUCTION OF HELICAL PIERS.
- C. MANUFACTURER TO HAVE IN EFFECT INDUSTRY RECOGNIZED WRITTEN QUALITY CONTROL FOR ALL MATERIALS AND MANUFACTURING PROCESSES.
- D. ALL WELDING TO BE DONE BY WELDERS CERTIFIED UNDER THE AWS CODE.
- E. A HELICAL PIER TESTING PROGRAM SHALL BE COMPLETED PER THE GEOTECHNICAL REPORT.

- F. PER THE GEOTECHNICAL REPORT, THE GEOTECHNICAL ENGINEER SHALL BE PRESENT ON A FULL-TIME BASIS DURING THE INSTALLATION OF THE HELICAL PIERS, TO OBSERVE DRIVING OF EACH OF THE HELICAL PIERS, TO DOCUMENT THE DRIVING PRESSURE AND TORQUE, TO ESTIMATE THE ACTUAL DOWNWARD CAPACITY OF EACH PIER, AND TO DETERMINE THE ACTUAL REQUIRED DEPTH FOR EACH PIER BASED ON THE MINIMUM DESIGN CAPACITY REQUIREMENTS.

- G. PRIOR TO COMMENCING HELICAL PILE INSTALLATION, CONTRACTOR SHALL INSPECT THE WORK OF ALL OTHER TRADES AND VERIFY THAT ALL SAID WORK IS COMPLETED TO THE POINT WHERE HELICAL PIERS MAY COMMENCE WITHOUT RESTRICTION. THE CONTRACTOR SHALL VERIFY THAT ALL HELICAL PIERS MAY BE INSTALLED IN ACCORDANCE WITH ALL PERTINENT CODES AND REGULATIONS REGARDING SUCH ITEMS AS UNDERGROUND OBSTRUCTIONS, RIGHT-OF-WAY LIMITATIONS, UTILITIES, ETC. IF THE HELICAL PIER IS REFUSED OR DEFLECTED BY A SUBSURFACE OBSTRUCTION, THE INSTALLATION SHALL BE TERMINATED AND THE PIER REMOVED. THE OBSTRUCTION SHALL BE REMOVED IF FEASIBLE, AND THE HELICAL PIER RE-INSTALLED. IF THE OBSTRUCTION CANNOT BE REMOVED, THE HELICAL PIER SHALL BE INSTALLED AT AN ADJACENT LOCATION, SUBJECT TO REVIEW AND ACCEPTANCE BY THE OWNER.

- H. TOLERANCES:

1. HELICAL PIER PLUMBNESS SHALL BE WITHIN TWO DEGREES OF DESIGN ALIGNMENT.
- A. TOP ELEVATION OF HELICAL PIER SHALL BE WITHIN +1 TO -2 INCHES OF THE DESIGN VERTICAL ELEVATION.

- I. ALL HELICAL PIERS SHALL BE CORROSION PROTECTED BY HOT-DIP GALVANIZATION. HOT-DIP GALVANIZE PER ASTM A123, LATEST EDITION AND PER THE GEOTECHNICAL REPORT.

- J. INSTALLATION UNITS SHALL CONSIST OF A ROTARY TYPE TORQUE MOTOR WITH FORWARD AND REVERSE CAPABILITIES, AND SHALL BE ELECTRIC OR HYDRAULIC POWERED.

- K. HELICAL PIERS SHALL BE DRIVEN TO A CAPACITY EQUAL TO TWICE THE DESIGN DOWNWARD LOAD. THE HELICAL PIER SHAFT CAN BE DRIVEN TO A MAXIMUM ALLOWABLE TORQUE OF 11,000 FOOT-POUNDS, WITH A CORRESPONDING MAXIMUM ULTIMATE AXIAL CAPACITY OF 100 KIPS PER PIER, WITHOUT ANY SAFETY FACTOR.

| HELICAL PIER DESIGN LOAD SCHEDULE | |
|-----------------------------------|-----------------------|
| PIER | DEAD LOAD + LIVE LOAD |
| TYPICAL VERTICAL PIER | 8 KIPS |

- L. THE HELICAL PIERS SHALL HAVE THREE HELICES. THE HELICAL PIERS SHOULD BE DRIVEN UNTIL THE UPPER HELIX HAS PENETRATED THREE FEET BELOW THE GROUND SURFACE AND THE HELICAL PIER DEVELOPS THE REQUIRED DOWNWARD CAPACITY. THE ACTUAL DEPTHS WILL BE DETERMINED DURING THE TESTING PROGRAM AND INSTALLATION. SEE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.

- M. SPACE HELIX PIERS A MINIMUM OF 5 HELIX DIAMETERS (USING THE DIAMETER OF THE LARGEST HELIX) APART IF DRIVEN VERTICALLY. SPACE HELIX PIERS A MINIMUM OF 2 HELIX DIAMETERS (USING THE DIAMETER OF THE LARGEST HELIX) APART IF HELICAL PIERS ARE BATTERED. SEE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.

12. TESTS, INSPECTIONS, AND OBSERVATIONS

- A. TESTS AND INSPECTIONS SHALL BE PROVIDED FOR ALL ITEMS AS REQUIRED BY THE CBC, CHAPTER 17.
- B. THE OWNER SHALL BE RESPONSIBLE FOR RETAINING AN INDEPENDENT TESTING AND INSPECTION LABORATORY TO PERFORM ALL REQUIRED TESTING AND INSPECTION.
- C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE TESTING AND INSPECTION LABORATORY WITH CONSTRUCTION SCHEDULES TO ENSURE PROPER COORDINATION OF WORK.
- D. THE FOLLOWING ITEMS SHALL BE INSPECTED BY AN APPROVED TESTING AND INSPECTION LABORATORY:
1. SOILS (CBC 1705.6). MAY BE PERFORMED BY GEOTECHNICAL ENGINEER OF RECORD.
2. HOLDDOWN ANCHOR BOLTS CONNECTED TO CONCRETE WITH ADHESIVE (CBC 1705.3). MAY BE PERFORMED BY ENGINEER OF RECORD.
3. NAILING, BOLTING, ANCHORING AND OTHER FASTENING COMPONENTS OF SHEARWALLS WITH EDGE NAILING SPACING OF 4" o.c. OR LESS (CBC 1705.11.1 AND 1705.12.2). MAY BE PERFORMED BY ENGINEER OF RECORD.
4. HELICAL PIERS
- E. IN ADDITION TO ANY SPECIAL INSPECTIONS, THE FOLLOWING SPECIFIED ITEMS SHALL HAVE PERIODIC STRUCTURAL OBSERVATION BY THE ENGINEER OF RECORD:
1. REINFORCING STEEL PRIOR TO CONCRETE POUR
2. HOLDOWNS IN WALLS AND CONCRETE
3. WOOD FRAMING AND CONNECTIONS
4. NAILING OF PLYWOOD ON WALLS, FLOORS, AND ROOFS
- F. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD OR INSPECTOR A MINIMUM OF 48 HOURS (EXCLUDING WEEKENDS) PRIOR TO THE TIME OF A REQUIRED INSPECTION OR OBSERVATION.

| LEGEND | | | |
|--------|---|--|---------------------------------------|
| | WALL BELOW | | POST BELOW |
| | WALL ABOVE | | POST ABOVE (OR ABOVE & BELOW) |
| | SHEARWALL BELOW | | HOLDOWN @ POST (2-2x MIN. IF NO POST) |
| | SHEARWALL ABOVE | | BEAM w/ HANGER PER SCHEDULE |
| | SHEARWALL TYPE AND MINIMUM LENGTH | | CONCEALED FLANGE HGR, HUC UNO |
| | JOISTS BEARING ON WALL/BEAM | | STRAP BELOW FRM'G |
| | FLUSH FRAMED JOIST, PROVIDE HGR PER SCHED | | STRAP ABOVE FRM'G |
| | | | STRAP TO F.O. FRM'G |

| HANGER SCHEDULE (TYP U.O.N.) | | | |
|---|-------------------------|-------------------------|-------------------------|
| SAWN LUMBER MEMBER SIZE | FACE MOUNT ² | I-JOIST/SCL MEMBER SIZE | FACE MOUNT ² |
| 2x ¹ | LUS ¹ | I-JOIST | IUS |
| 4x8 or SMALLER | HUS | 1 3/4" x LVL | HU |
| 4x10 or LARGER | HHUS | 3 1/2" x LVL/PSL | HHUS |
| 6x6 | HUS | 5 1/4" x LVL/PSL | HHUS |
| 6x8 or LARGER | HHUS | 7" x LVL/PSL | HGUS |
| NOTES: 1. USE ROUGH SAWN LUMBER HANGER PER 2017 SIMPSON CATALOG FOR (E) 2x MEMBERS WITH THICKNESS GREATER THAN 1-1/2" 2. CONTACT E.O.R. FOR TOP FLANGE HANGER OPTION IF DESIRED | | | |

STRAP SCHEDULE

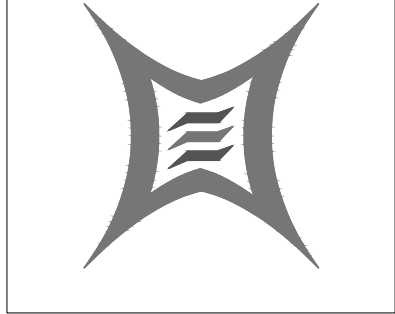
| | | | |
|----|---------------------|----|--------------------|
| S1 | LSTA24 ¹ | S4 | MST27 ² |
| S2 | LSTA30 ¹ | S5 | MST37 ² |
| S3 | MSTA36 ¹ | S6 | MST48 ² |

1. USE 2x OR 1 3/4" SCL BLK'G
2. USE 4x OR 3 1/2" SCL BLK'G

ABBREVIATIONS

| | | | |
|------------|--|------------------------|---|
| AB | ANCHOR BOLT | LSL | LAMINATED STRAND LUMBER |
| ACI | AMERICAN CONCRETE INSTITUTE | LVL | LAMINATED VENEER LUMBER |
| ADD'L | ADDITIONAL | MAX | MAXIMUM |
| AISC | AMERICAN INSTITUTE OF STEEL CONSTRUCTION | MFR | MANUFACTURER |
| ALT | ALTERNATE | MIN | MINIMUM |
| ASTM | AMERICAN SOCIETY FOR TESTING AND MATERIALS | MISC (N) | MISCELLANEOUS NEW |
| AWS | AMERICAN WELDING SOCIETY | NTS | NOT TO SCALE |
| BLD'G | BUILDING | o/c | ON CENTER |
| BM | BEAM | OPPOSITE HAND | OPPOSITE HAND |
| BN | BOUNDARY NAILING | OP'NG | OPENING |
| BOT | BOTTOM | PCF | POUNDS PER CUBIC FOOT |
| B.O. | BOTTOM OF | PERIM | PERIMETER |
| c.c. | CENTER TO CENTER | PERP | PERPENDICULAR |
| C.B. | CEILING BEAM | PL | PLATE |
| CBC | CALIFORNIA BUILDING CODE | PLYWD | PLYWOOD |
| C.J. | CEILING JOIST | PSF | POUNDS PER SQUARE FOOT |
| CL | CENTERLINE | PSI | POUNDS PER SQUARE INCH |
| CLR | CLEAR | PSL | PARALLEL STRAND LUMBER |
| COL | COLUMN | PT | PRESSURE TREATED |
| CONC | CONCRETE | REF | REFERENCE |
| CONN | CONNECTION | REINF | REINFORCING |
| CONSTR | CONSTRUCTION | REQ'D | REQUIRED |
| CONT | CONTINUOUS | S.A.D. | SEE ARCHITECTURAL DRAWINGS |
| DBL | DOUBLE | SCHED | SCHEDULE |
| DIA, Ø | DIAMETER | SCL | STRUCTURAL COMPOSITE LUMBER |
| DIAG | DIAGONAL | SHRWL | SHEARWALL SHEET |
| DJ | DOUBLE JOIST | SHT | SHEET |
| DL | DEAD LOAD | SHT'G | SHEATHING |
| DTL | DETAIL | SIM | SIMILAR |
| DWG | DRAWING | SN | SILL NAILING |
| (E), EXIST | EXISTING | S.O.G. | SLAB ON GRADE |
| EA | EACH | SPEC | SPECIFICATION |
| EMBED | EMBEDMENT | SQ | SQUARE |
| EN | EDGE NAILING | SS | STAINLESS STEEL |
| EOR | ENGINEER OF RECORD | STD | STANDARD |
| EQ | EQUAL | STL | STEEL |
| EXT | EXTERIOR | STRUCT | STRUCTURAL |
| FDN | FOUNDATION | S.W. | SHEARWALL |
| FN | FIELD NAILING | SYM | SYMMETRY |
| FLR | FLOOR | THRU TO T&G TS | THROUGH TOP OF TONGUE AND GROOVE TUBE STEEL |
| FT | FOOT | TYP | TYPICAL |
| FTG | FOOTING | U.O.N. | UNLESS NOTED OTHERWISE |
| GA | GAUGE | UNLESS NOTED OTHERWISE | UNLESS NOTED OTHERWISE |
| GALV | GALVANIZED | | |
| GLB | GLUE-LAMINATED BEAM | | |
| H&G | HOT-DIPPED GALVANIZED | | |
| HGR | HANGER | | |
| HORIZ | HORIZONTAL | | |
| ICBO | INTERNATIONAL CONFERENCE OF BUILDING MATERIALS | | |
| IN | INCH | | |
| INT | INTERIOR | | |
| K | KIPS | | |
| KSF | KIPS PER SQUARE FOOT | | |
| KSI | KIPS PER SQUARE INCH | | |
| LB | POUND | | |
| LL | LIVE LOAD | | |

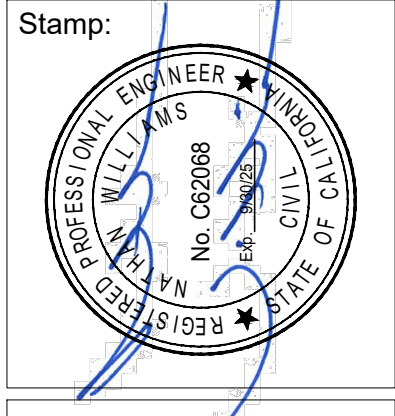
Reviewed for CBC Compliance As Verified by Permit Inspection
w/ Permit Number: 17-0000000000
Date: 6/2025
WF WIDE FLANGE
W/ WITHOUT
WP WORK POINT
WWF WELDED WIRE FABRIC



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Stamp:



HANKE RESIDENCE
230 OCEAN PARKWAY
BOLINAS, CA 94924

Revisions:

| | | |
|---|------------|----|
| 2 | 12/19/2024 | NW |
|---|------------|----|

Sheet Title:
STRUCTURAL NOTES

Date: --/--/--

Project No: 24002

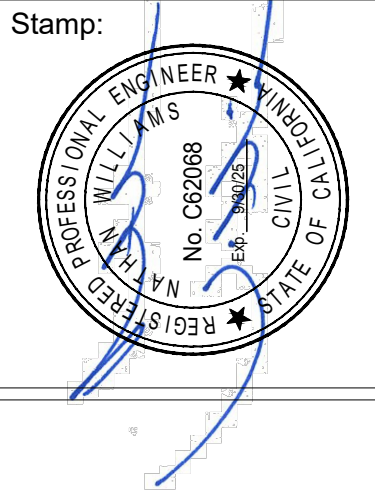
Drawn By: TES

Checked By: NW

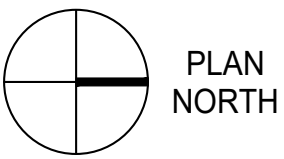
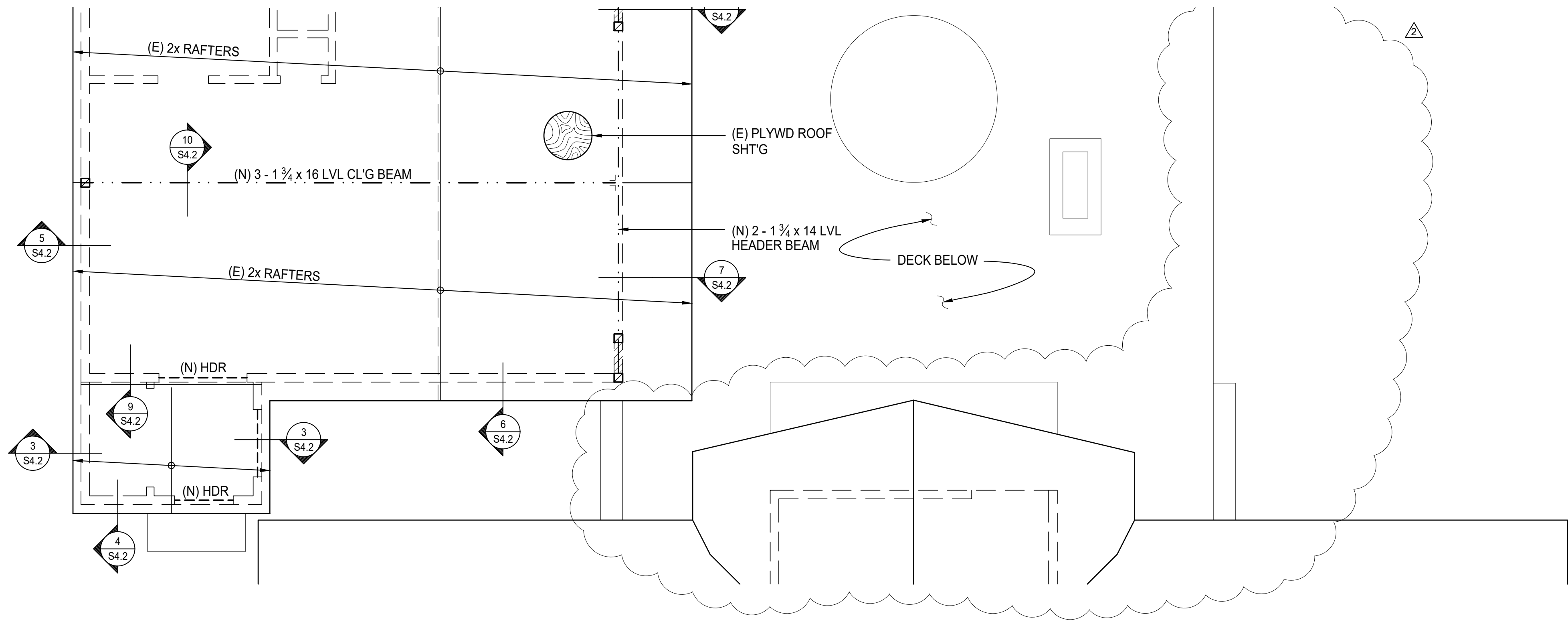
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S1.0

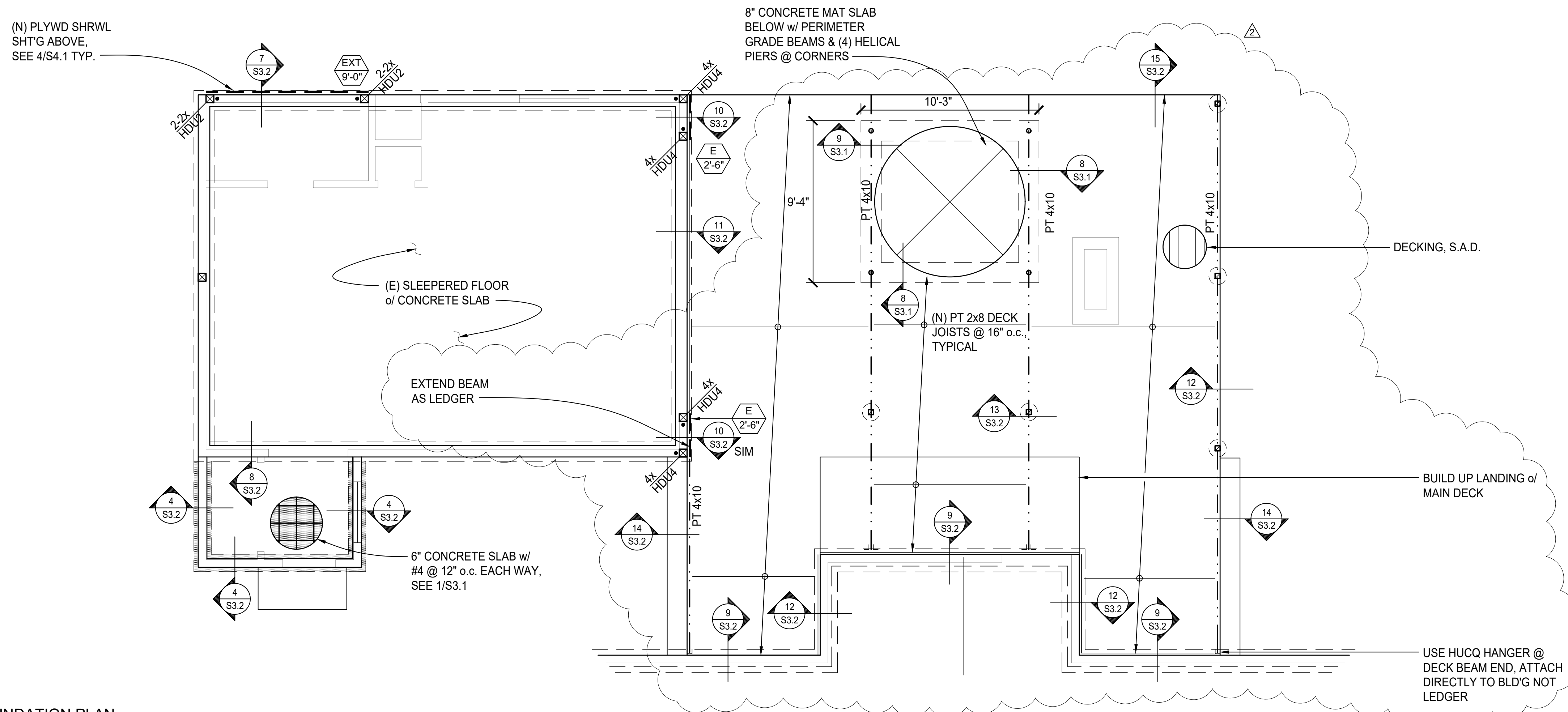
CALL ENGINEER OF RECORD FOR PRE-CONSTRUCTION MEETING AFTER DRYWALL DEMO.



HANKE RESIDENCE
230 OCEAN PARKWAY
BOLINAS, CA 94924



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



1 FLOOR FRAMING/ FOUNDATION PLAN
1/4"=1'-0"

Design Professional: Low Carbon Concrete Compliance Form
Cement Limit Pathway

Project Name: HANKE RESIDENCE
Project Address: 230 OCEAN PARKWAY, BOLINAS, CA

THE STRUCTURAL ENGINEER OR RESPONSIBLE APPLICANT ON THE DESIGN TEAM SHALL COMPLETE AND SUBMIT TO THE BUILDING DEPARTMENT FOR PLAN CHECK TO REVIEW.

| Application (e.g., foundation, slab, sidewalks, pool, etc.) | If Applicable, Pre-qualified Mix Design (County Reference No.) | Specified Strength (psi) | Allowable Cement See 2018-12/12/2023 (psf, lbs per sq. ft., lbs per sq. yd.) | If Applicable, Allowable Cement High Early Strength-add (psi) | STEPS |
|---|--|--------------------------------|--|--|--|
| ex. Sidewalks | ex. 00001 | ex. 3000 | ex. 410 | ex. 533 | 1) Provide Date, Company Information, and Signature |
| Foundation | | 2500 | 362 | | 2) Provide information for ALL unique concrete mix designs used on the project. |
| | | | | | 3) If Ready-Mix Design Number has been pre-qualified, provide County issued pre- qualified reference number. See pre-qualified mixes at https://marincounty.org/lowcarbonconcretecodes |
| | | | | | 4) Place or print this compliance form within structural plans. If a licensed professional is present, that person MUST stamp the mix design to ensure it complies, otherwise a signature of the responsible applicant will suffice. |

ex. Last Updated 10/10/2023

**Reviewed for Code Compliance
As Verified by Field Inspection**
Permit Number: 17861
Date: 2/6/2025


PLAN NORTH

Revisions:

| | | |
|---|------------|----|
| 2 | 12/19/2024 | NW |
|---|------------|----|

Sheet Title:
ROOF AND FLOOR
FRAMING/ FOUNDATION
PLANS


Date: --/--/--
Project No: 24002
Drawn By: TES
Checked By: NW
Sheet:
S2.1


COUNTY OF MARIN

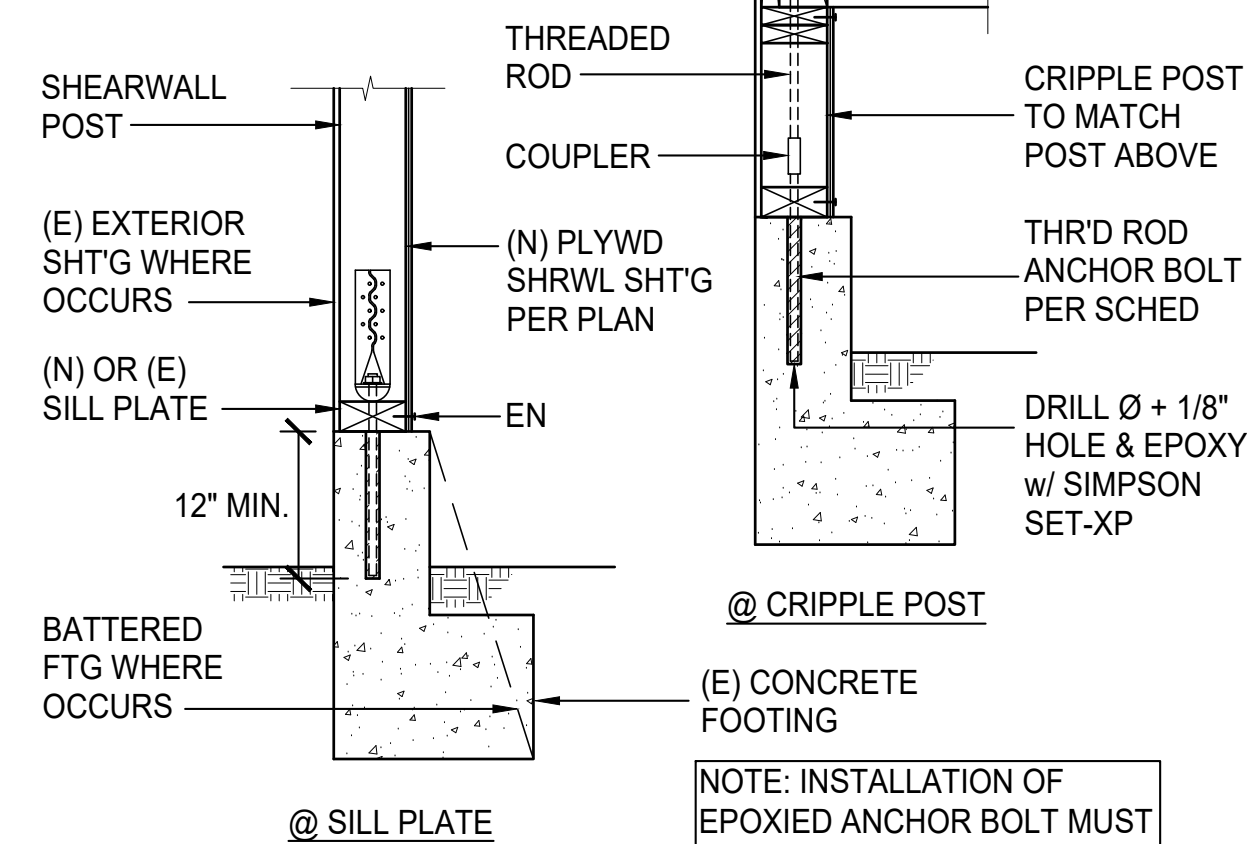
**Reviewed for Code Compliance
As Verified by Field Inspection**

Permit Number: 178617

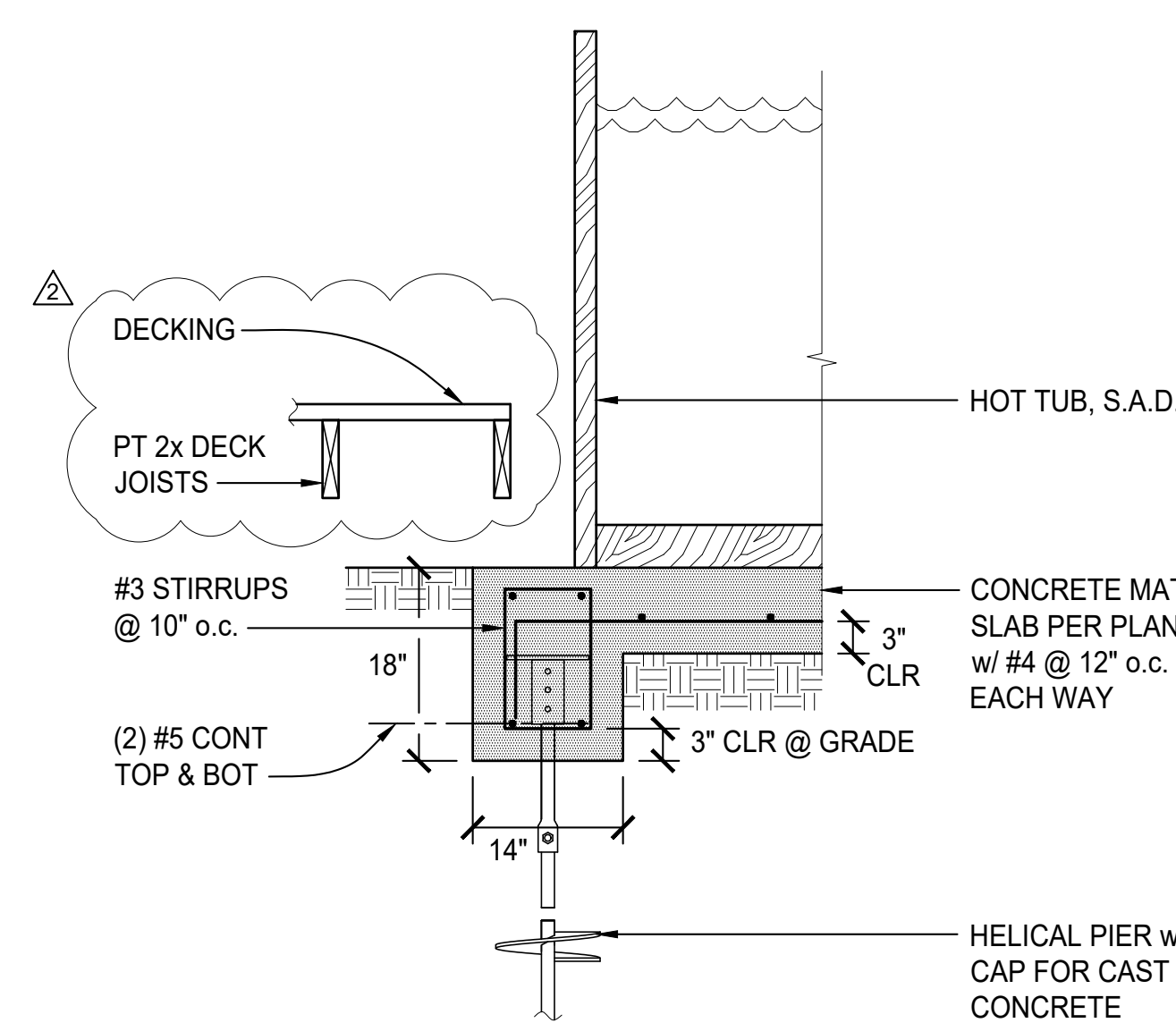
Date: 06/20/2025

 PLAN
NORTH

| ANCHOR BOLT SCHEDULE | |
|----------------------|--------|
| HOLDOWN | A.B. Ø |
| HDU2, HDU4, HDU5 | 5/8" |
| HDU8, HDQ8 | 7/8" |
| HDU11, HDU14 | 1" |

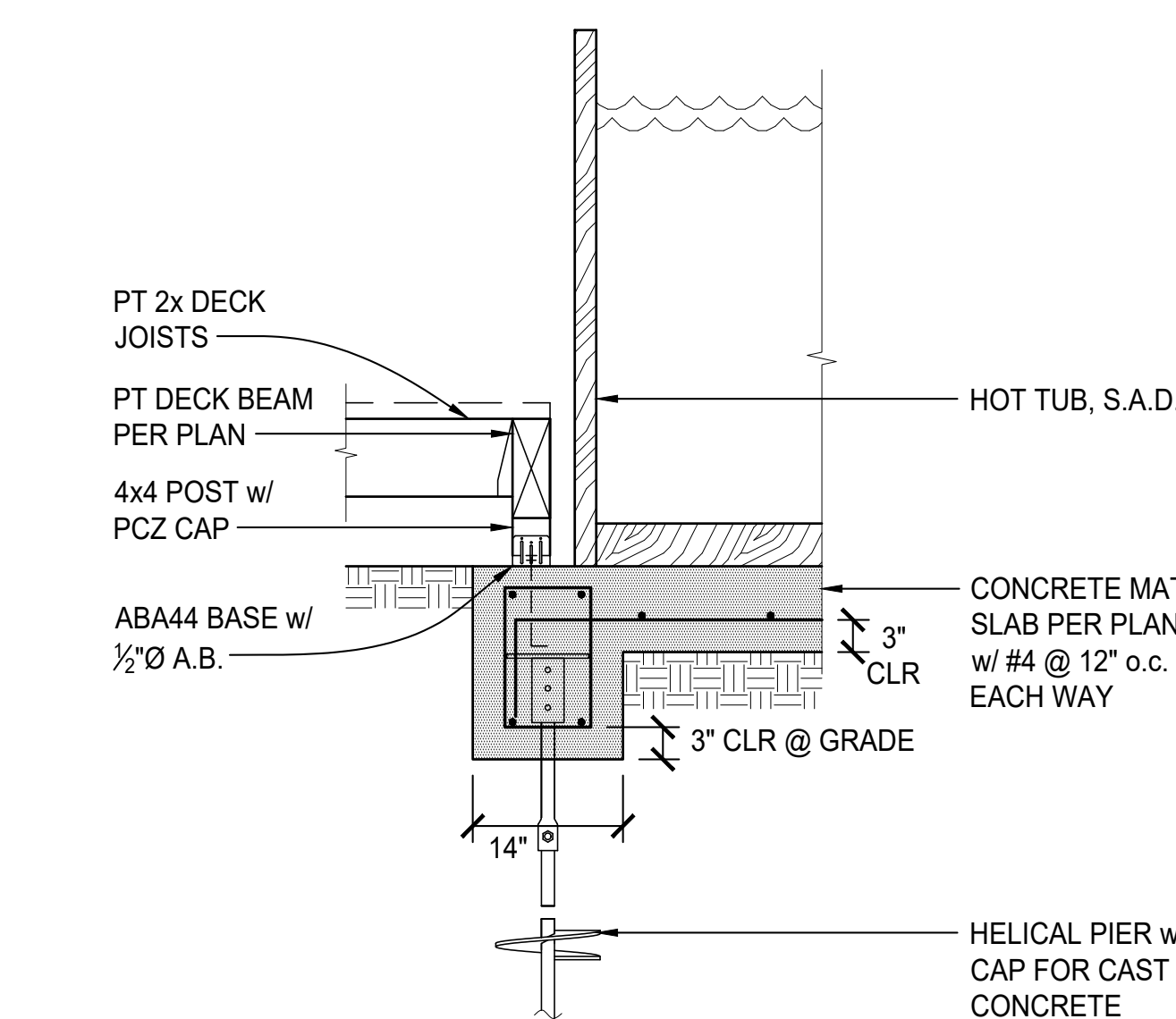


| | |
|---|---|
| 7 | HOLDOWN TO EXISTING FOOTING 3/4"=1'-0" |
|---|---|

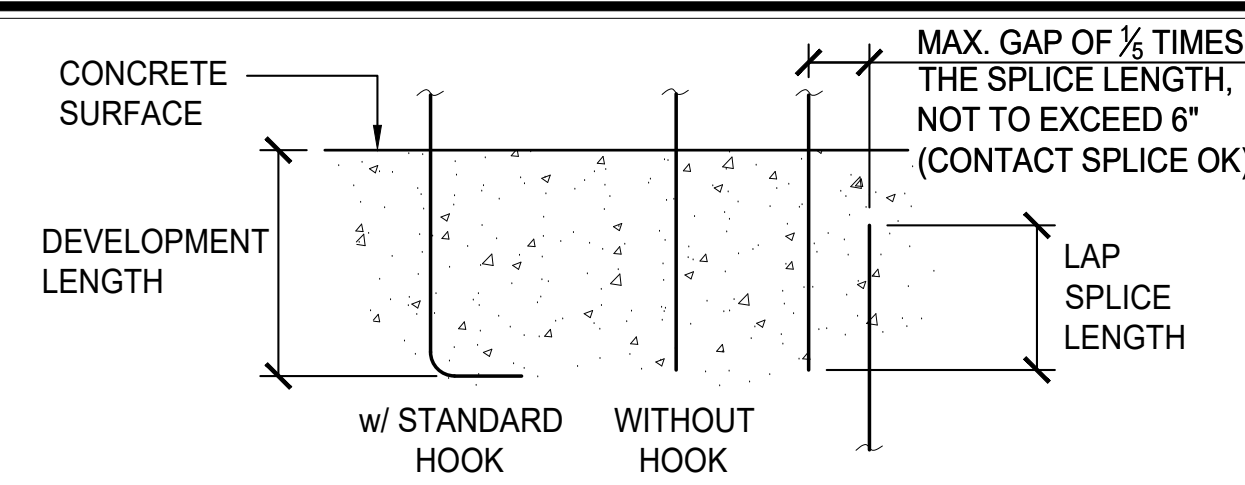


| | |
|---|--------------------|
| 8 | MAT SLAB @ HOT TUB |
| | 3/4"=1'-0" |

FOR INFORMATION NOT
NOTED, SEE DETAIL 8/-



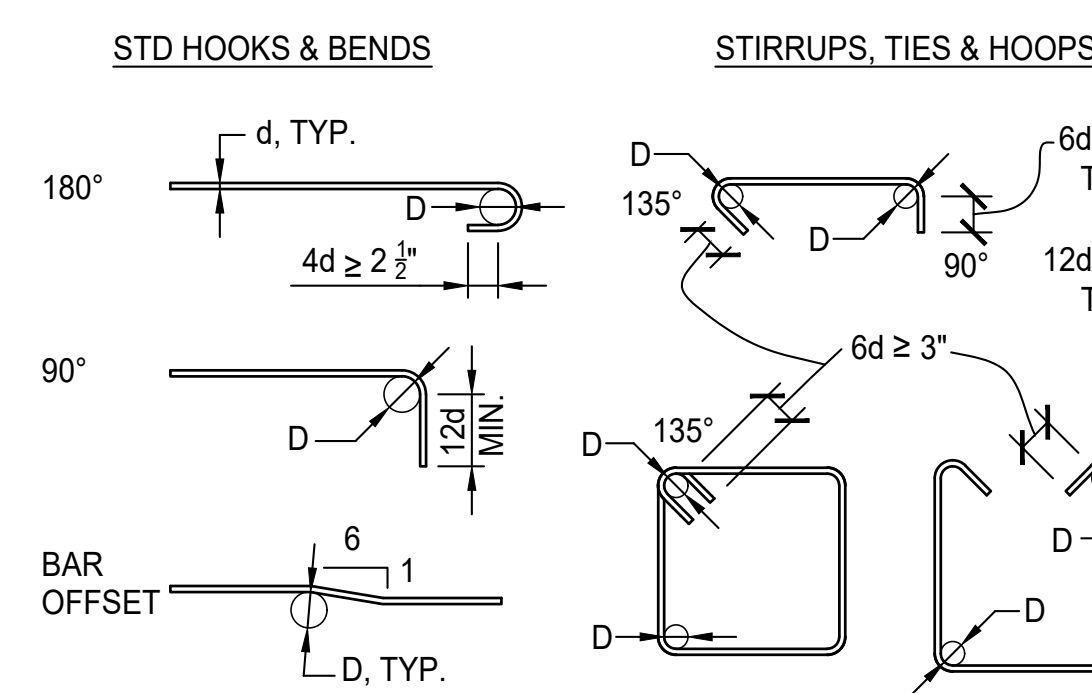
| | |
|---|----------------------------------|
| 9 | MAT SLAB @ HOT TUB 3/4"=1'-0" |
|---|----------------------------------|



| BAR SIZE | HORIZ. BARS w/ MORE THAN 12" OF FRESH CONC. BELOW | | | ALL OTHER BARS | | |
|----------|---|--------------|-------------------|----------------|--------------|-------------------|
| | DEVELOPMENT | | LAP SPLICE LENGTH | DEVELOPMENT | | LAP SPLICE LENGTH |
| | w/ STD. HOOK | WITHOUT HOOK | | w/ STD. HOOK | WITHOUT HOOK | |
| #3 | 9" | 14" | 19" | 9" | 12" | 15" |
| #4 | 12" | 19" | 25" | 12" | 15" | 18" |
| #5 | 15" | 25" | 32" | 15" | 19" | 25" |
| #6 | 18" | 36" | 46" | 18" | 27" | 36" |
| #7 | 21" | 60" | 78" | 21" | 46" | 60" |
| #8 | 24" | 78" | 102" | 24" | 60" | 78" |

1. ALL REINFORCING STEEL SHALL BE SPACING 60 w/ 1 1/2" MIN. FROM CENTER OF BAR TO F.O. CONC. AND MIN. SPACING OF 3 TIMES THE BAR DIAMETER
2. THE ABOVE LENGTHS ARE FOR CAST-IN-PLACE AND PRECAST CONCRETE w/ MIN. CONCRETE STRENGTH, $f_c \geq 2,500$ PSI (LENGTHS SHOWN WILL BE CONSERVATIVE FOR GREATER CONCRETE STRENGTHS)
3. IF BARS BEING LAPPED HAVE DIFFERENT DIAMETERS, THE LAP SPLICE LENGTH IS TAKEN AS THE GREATER OF THE DEVELOPMENT OF THE LARGER BAR OR THE SPLICE LENGTH OF THE SMALLER BAR.

| | |
|---|--|
| 4 | REBAR DEVELOPMENT & SPLICE LENGTHS N.T.S. |
|---|--|



NOTE:

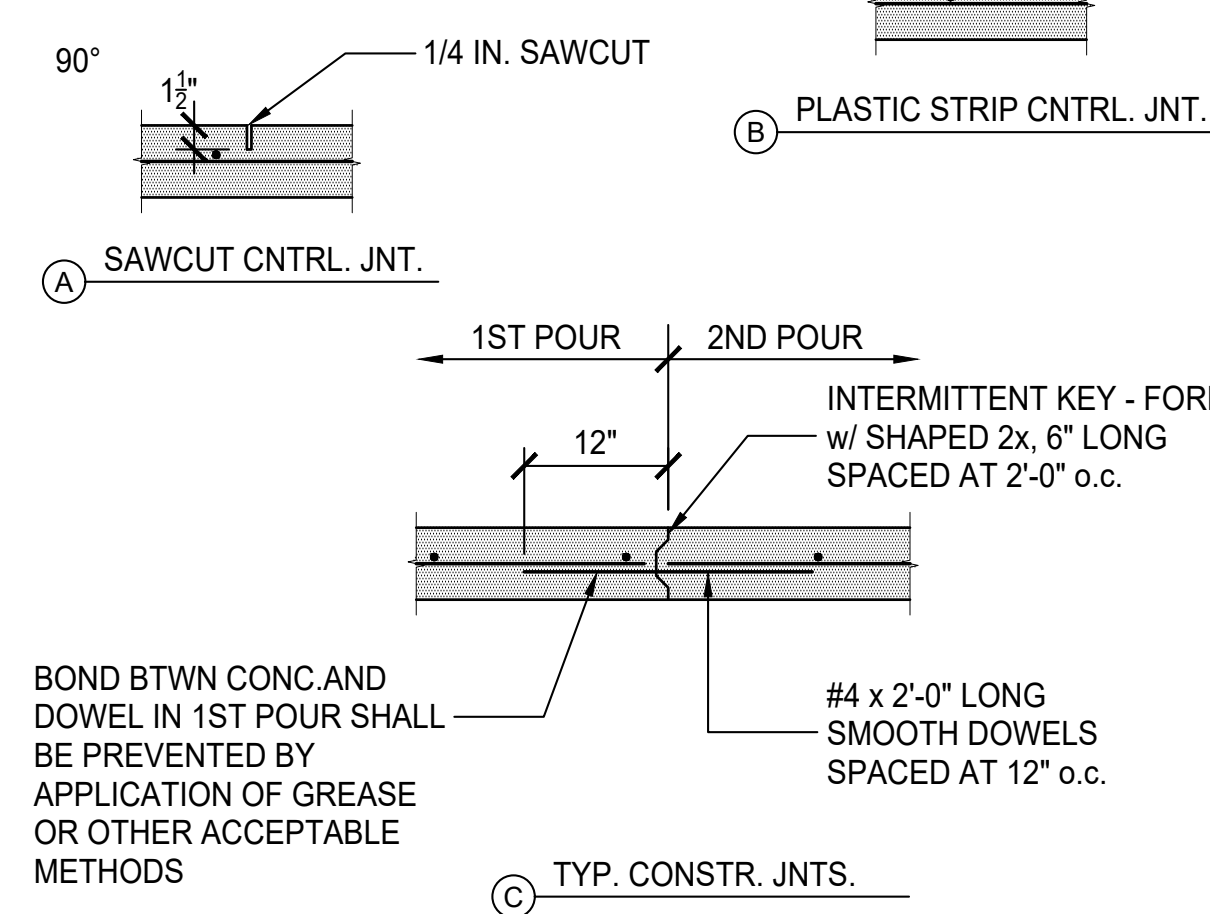
1. DO NOT FIELD BEND REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE.

| BEND DIAMETER, D | | |
|------------------|-------------------|-----------------------|
| BAR SIZE | STD HOOKS & BENDS | STIRRUPS, TIE & HOOPS |
| #3 THRU #5 | 6d | 4d |
| #6 THRU #8 | 6d | 6d |
| #9 THRU #11 | 8d | NA |
| #14 THRU #18 | 10d | NA |

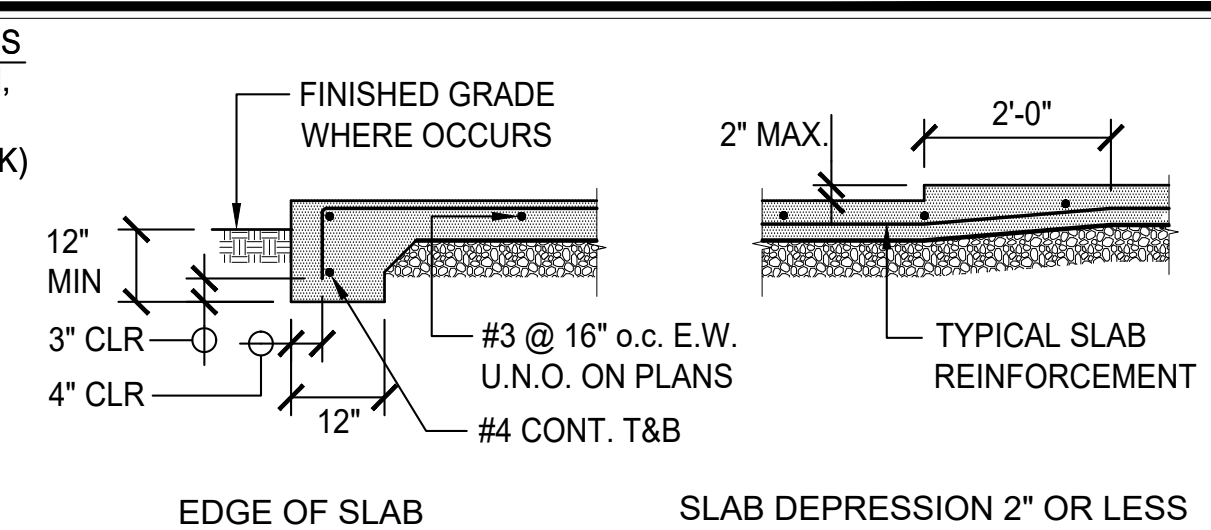
| | |
|---|-------------------------|
| 5 | HOOKS & BENDS N.T.S. |
|---|-------------------------|

NOTES:

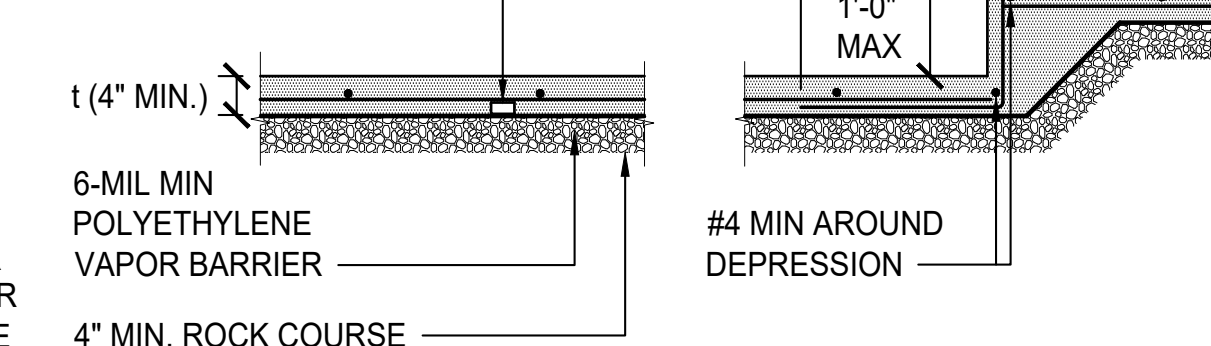
1. AT CONTRACTOR'S OPTION USE EITHER SAWCUT OR PLASTIC STRIP CNTRL JNTS.
2. LOCATE CNTRL AND CONSTR. JNTS TO ENCLOSE APPROXIMATELY SQUARE AREAS (WIDTH TO LENGTH RATIOS OF ENCLOSED AREAS SHALL NOT EXCEED 1.33) NO GREATER THAN 300 SQUARE FEET.



| | |
|---|---------------------------------|
| 6 | CONSTRUCTION AND CONTROL JOINTS |
| | 3/4"=1'-0" |

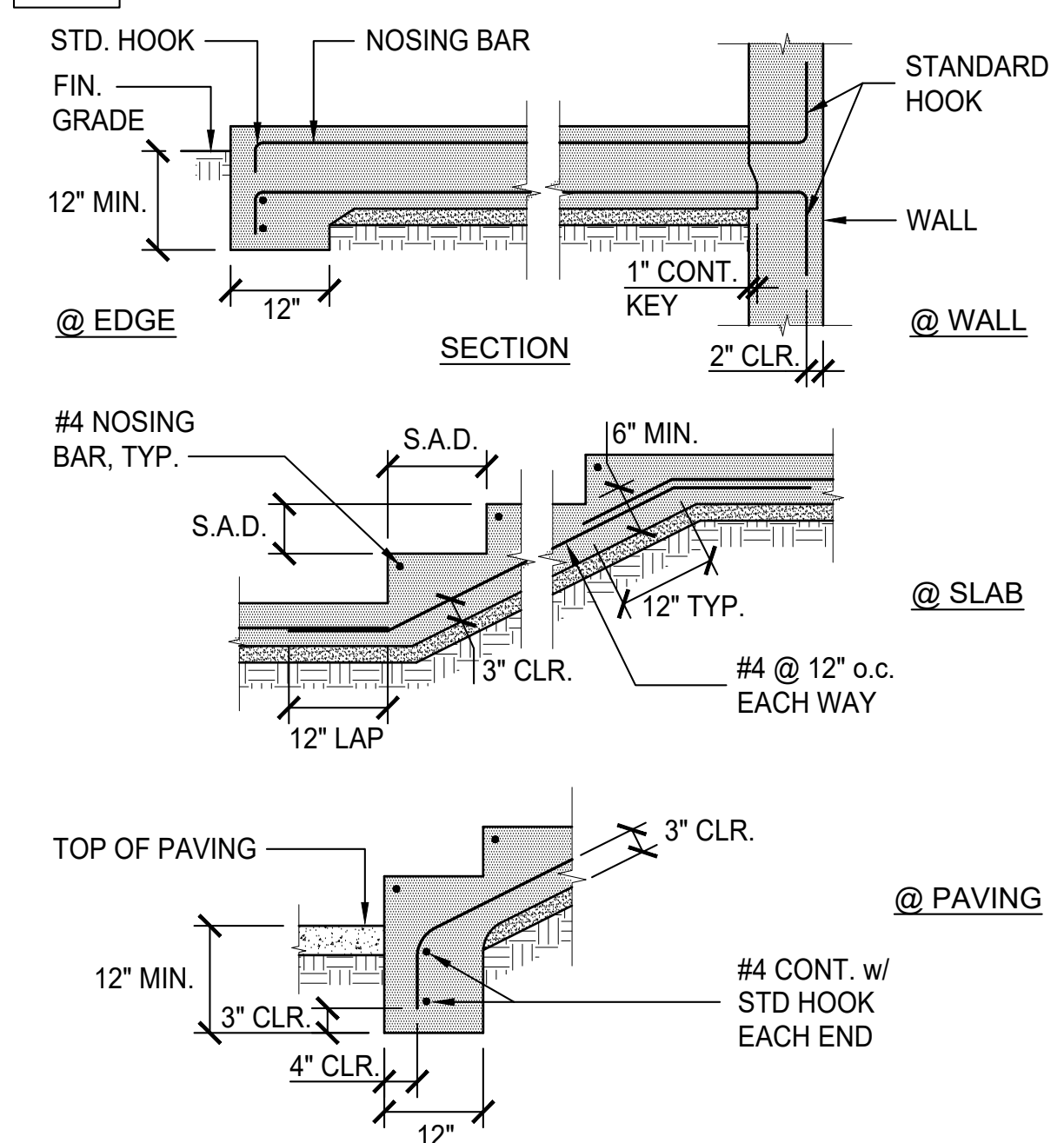


REINFORCING TO
BE SUPPORTED ON
PRECAST CONC.
BLOCKS (DOBIES)
3 x 3 x 1/2 @ 4'-0" o.c.
EACH WAY _____

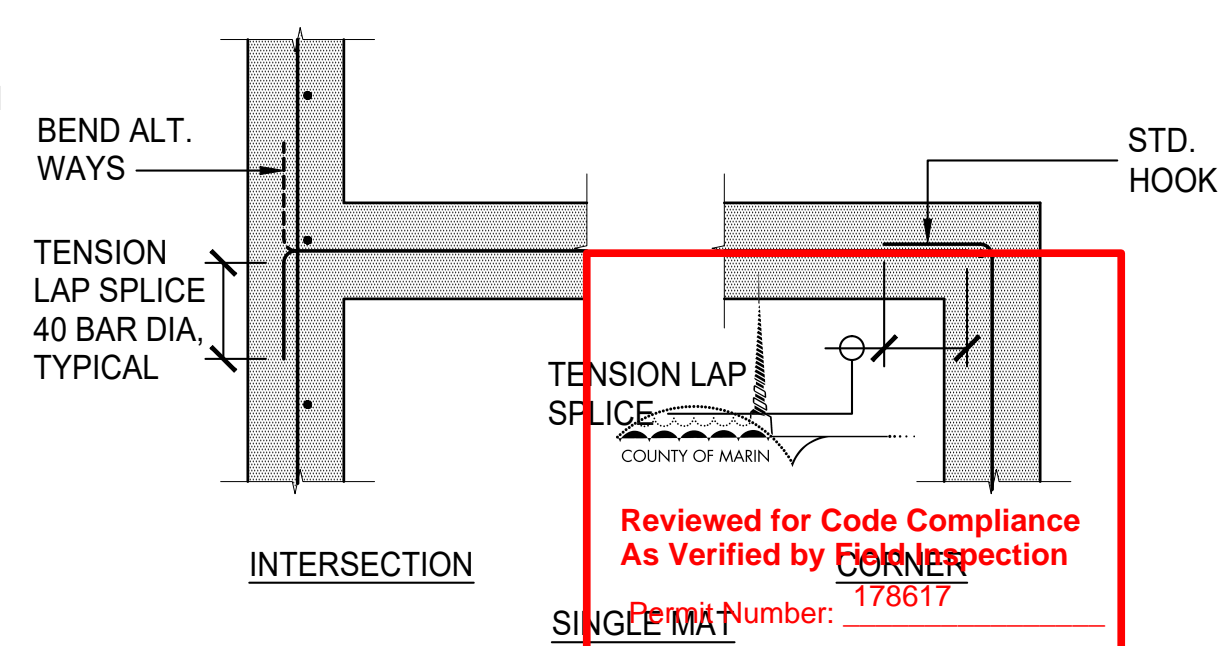
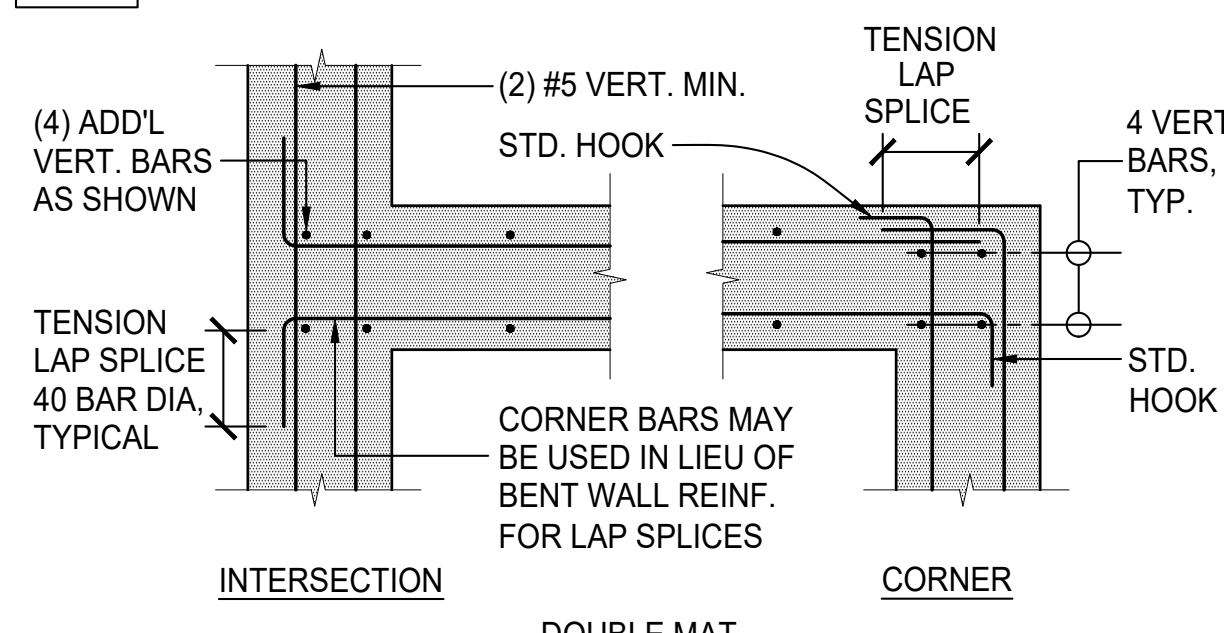


| TYPICAL SLAB-ON-GRADE | SLAB DEPRESSION GREATER THAN 2" |
|-----------------------|---------------------------------|
|-----------------------|---------------------------------|

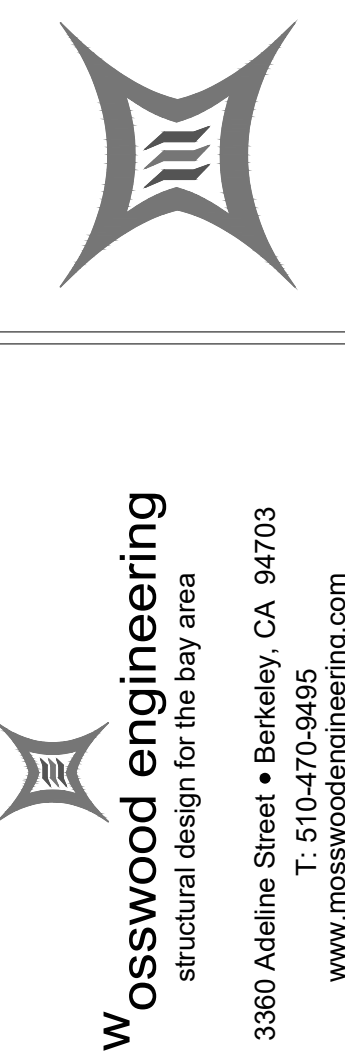
| | |
|---|-----------------------|
| 1 | SLAB-ON-GRADE DETAILS |
| | 3/4"=1'-0" |




| | |
|---|--|
| 2 | CONCRETE STAIRS ON GRADE 3/4"=1'-0" |
|---|--|



| | | |
|---|---|----------------|
| 3 | TYP. INTERSECTION OF CONC. WALLS AND FTGS | Date: 2/6/2025 |
| | 3/4"=1'-0" | |



Stamp:

A circular professional engineer seal for the State of Illinois. The outer ring contains the text "REGISTERED PROFESSIONAL ENGINEER" at the top and "STATE OF ILLINOIS" at the bottom, separated by two stars. The inner circle contains the name "N. WILLIAMS" on the left, "No. C62068" in the center, and "Exp. 12/31/2023" on the right. The seal is stamped in blue ink on a white background.

HANKE RESIDENCE
230 OCEAN PARKWAY
BOLINAS, CA 94924

| | | |
|------------|------------|----|
| Revisions: | | |
| 2 | 12/19/2024 | NW |

Sheet Title:
CONCRETE DETAILS

Date: --/--/--

Project No: 24002

Drawn By: TES

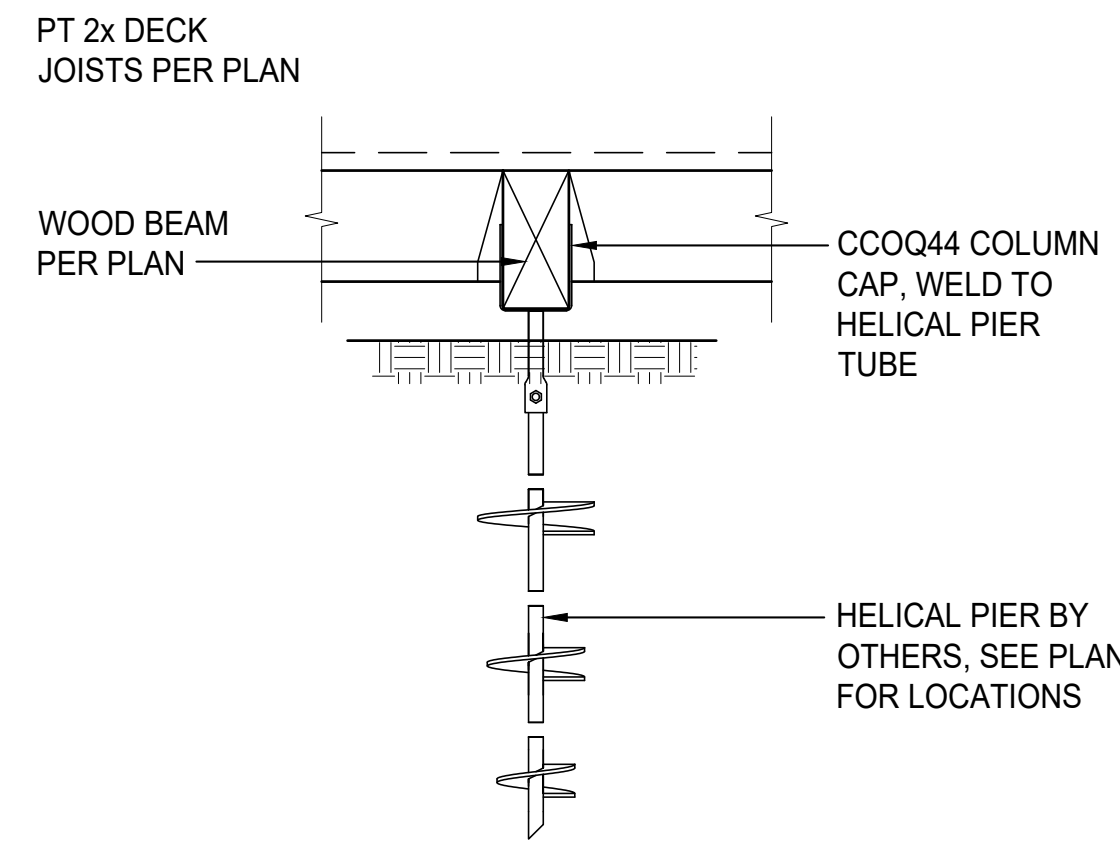
Checked By: NW

Sheet:

33 1

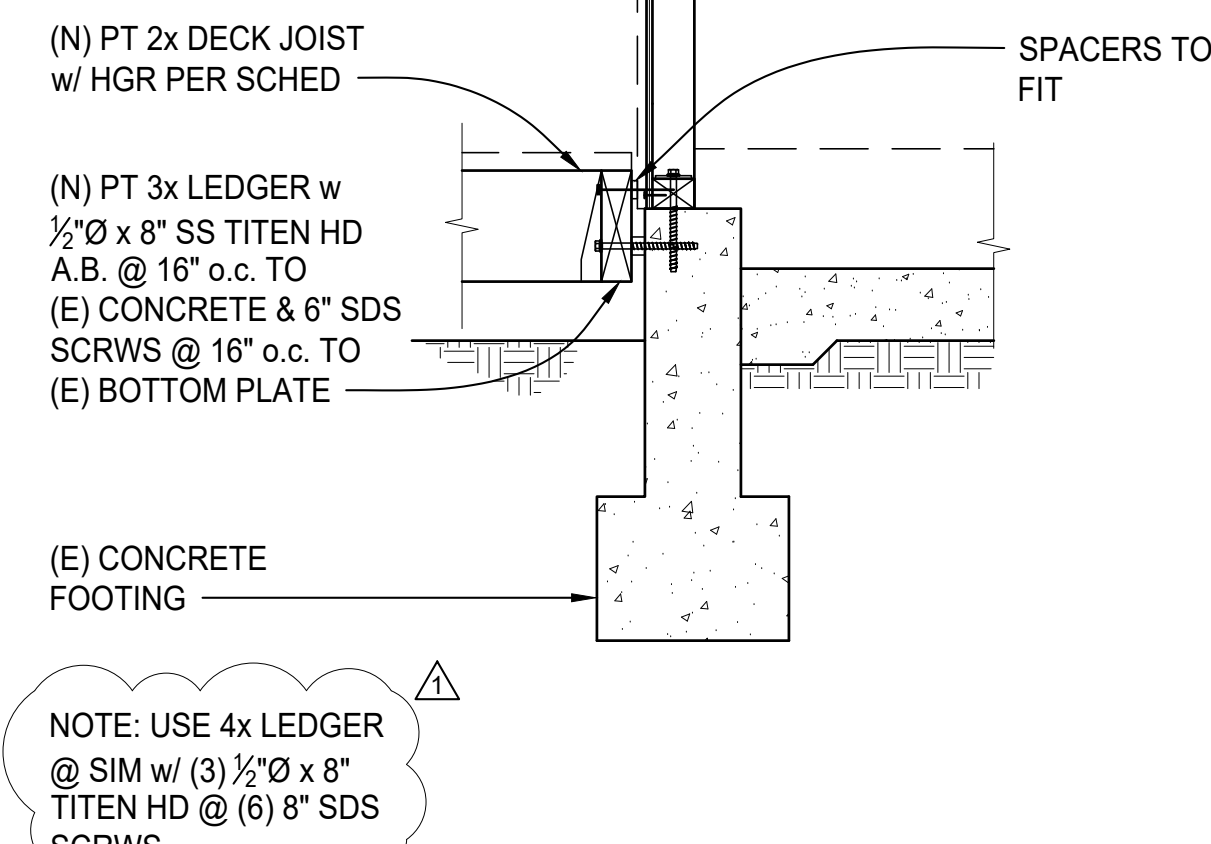
S3.1

FOR INFORMATION NOT NOTED, SEE DETAIL 7/-



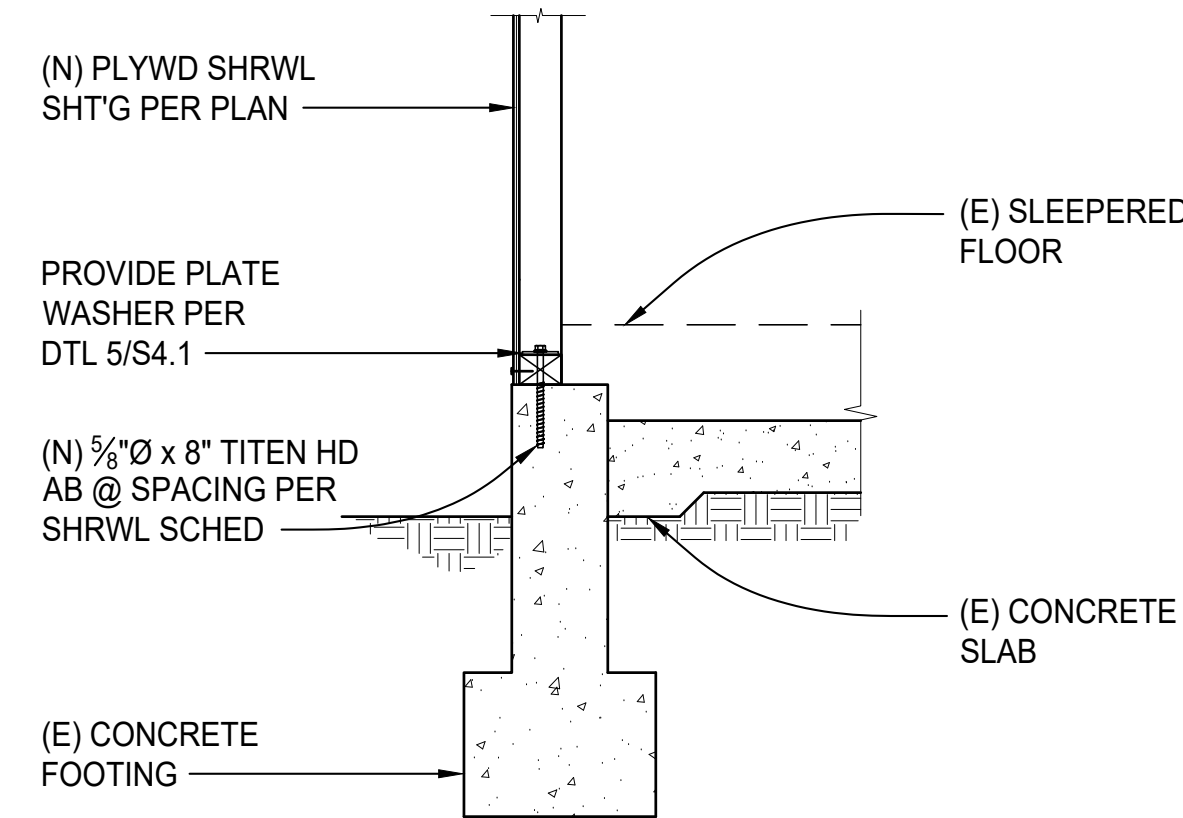
13 DECK BEAM @ HELICAL PIER
3/4"=1'-0"

FOR INFORMATION NOT NOTED, SEE DETAIL 13/-



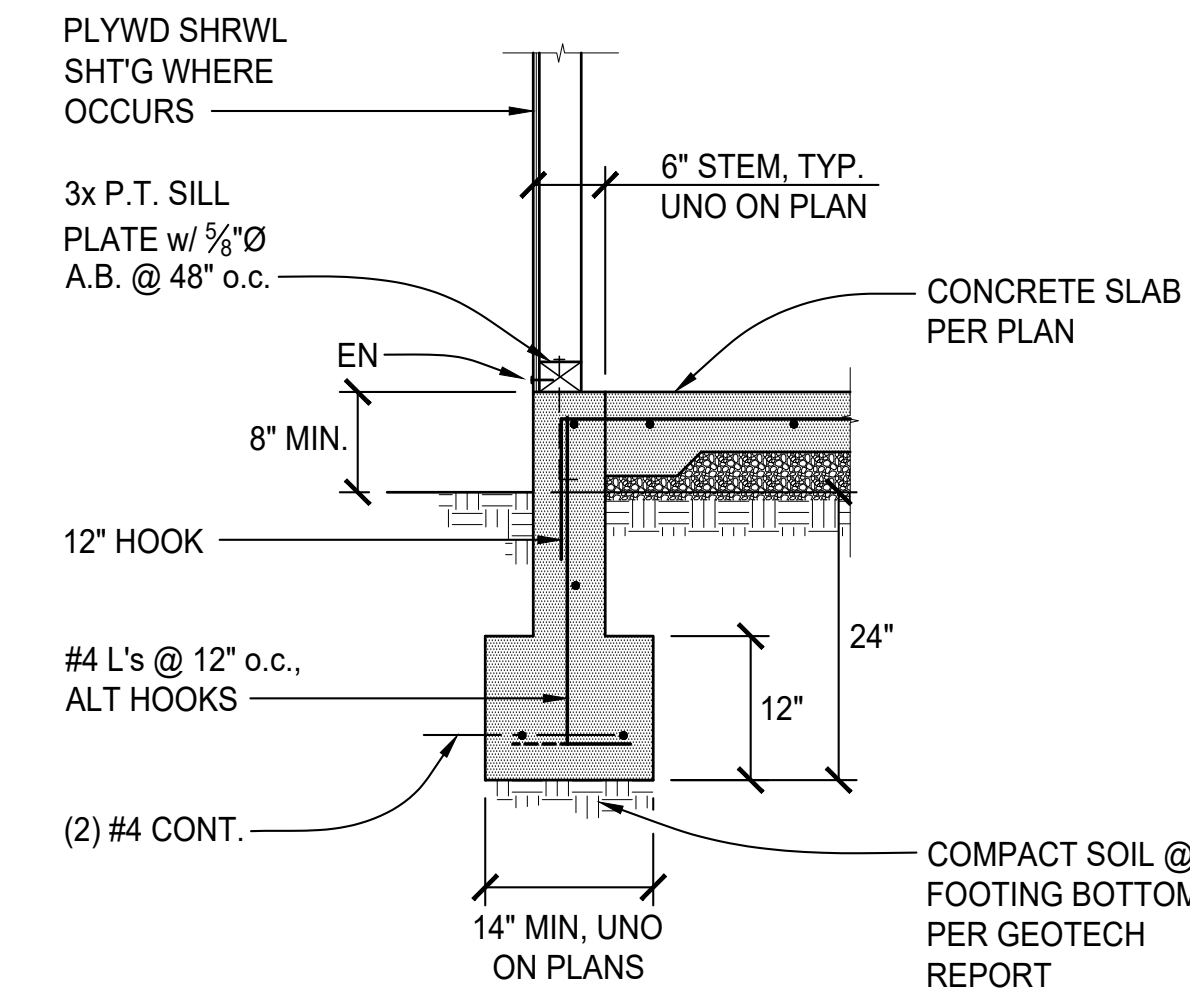
10 (N) DECK CONNECTION
3/4"=1'-0"

FOR INFORMATION NOT NOTED, SEE DETAIL 10/-



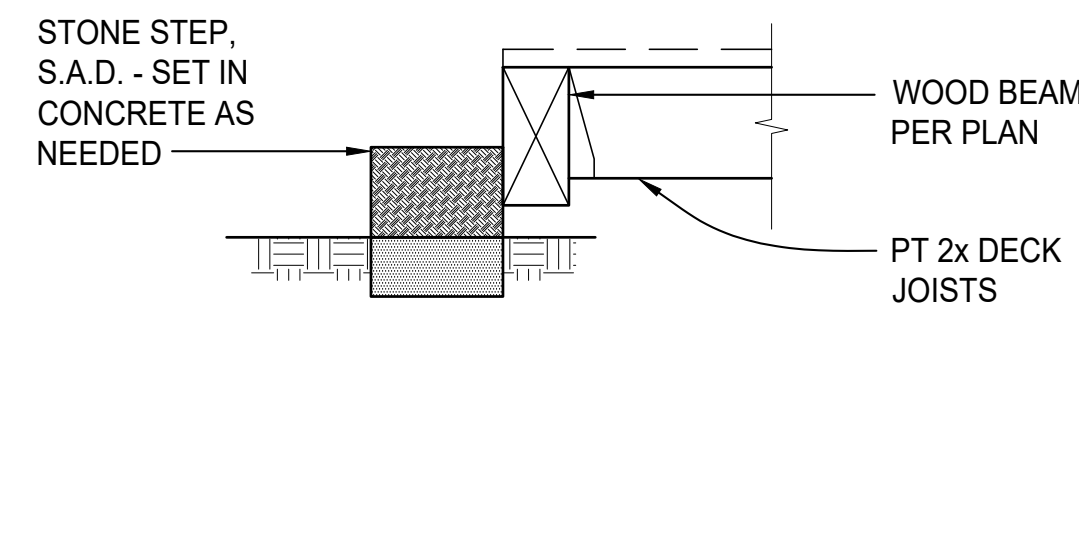
7 (N) SHEARWALL @ (E) SLEEPERED FLOOR
3/4"=1'-0"

FOR INFORMATION NOT NOTED, SEE DETAIL 7/-

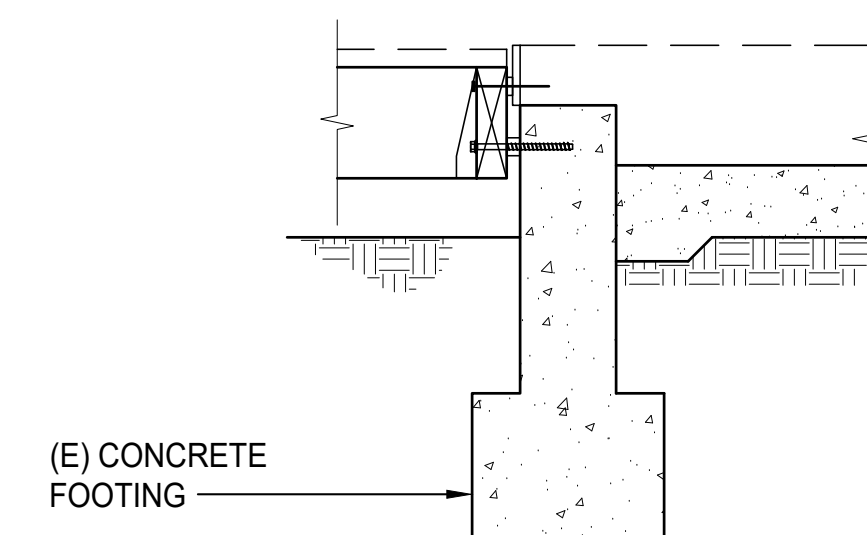


4 EXTERIOR WALL FOOTING
3/4"=1'-0"

1 NOT USED
3/4"=1'-0"

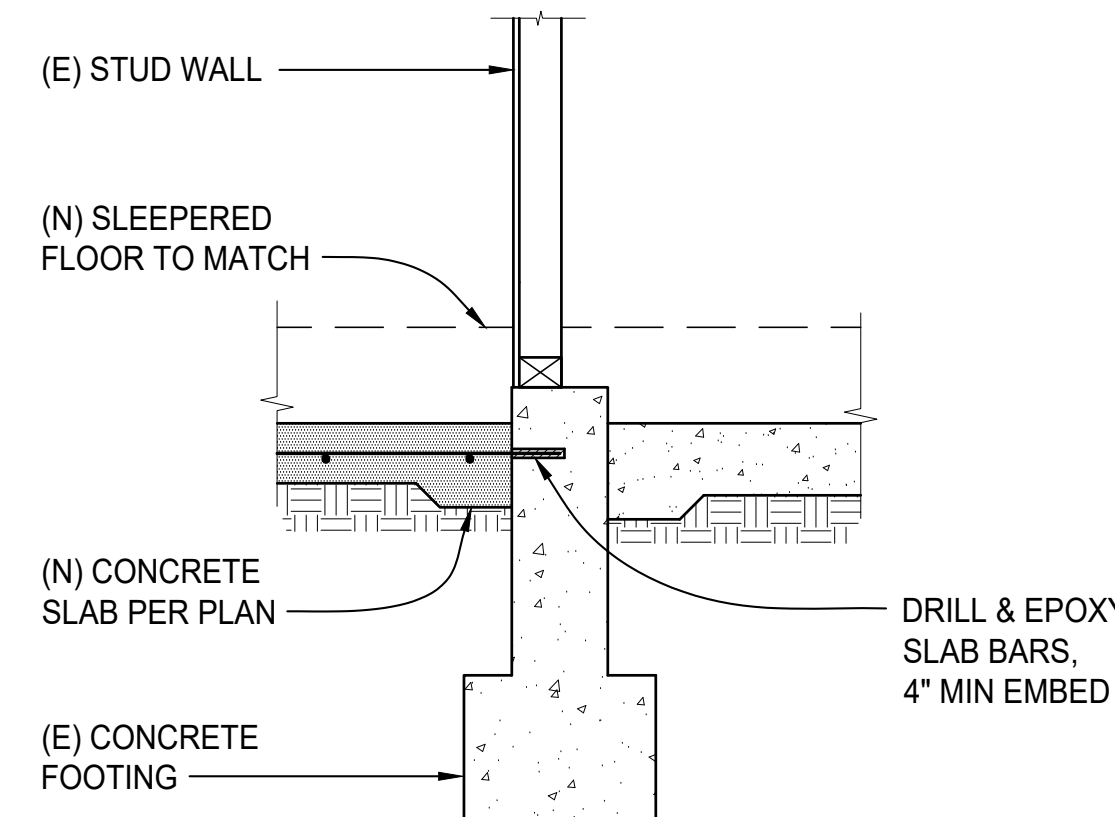


14 DECK STEPS
3/4"=1'-0"



11 (N) DECK CONNECTION
3/4"=1'-0"

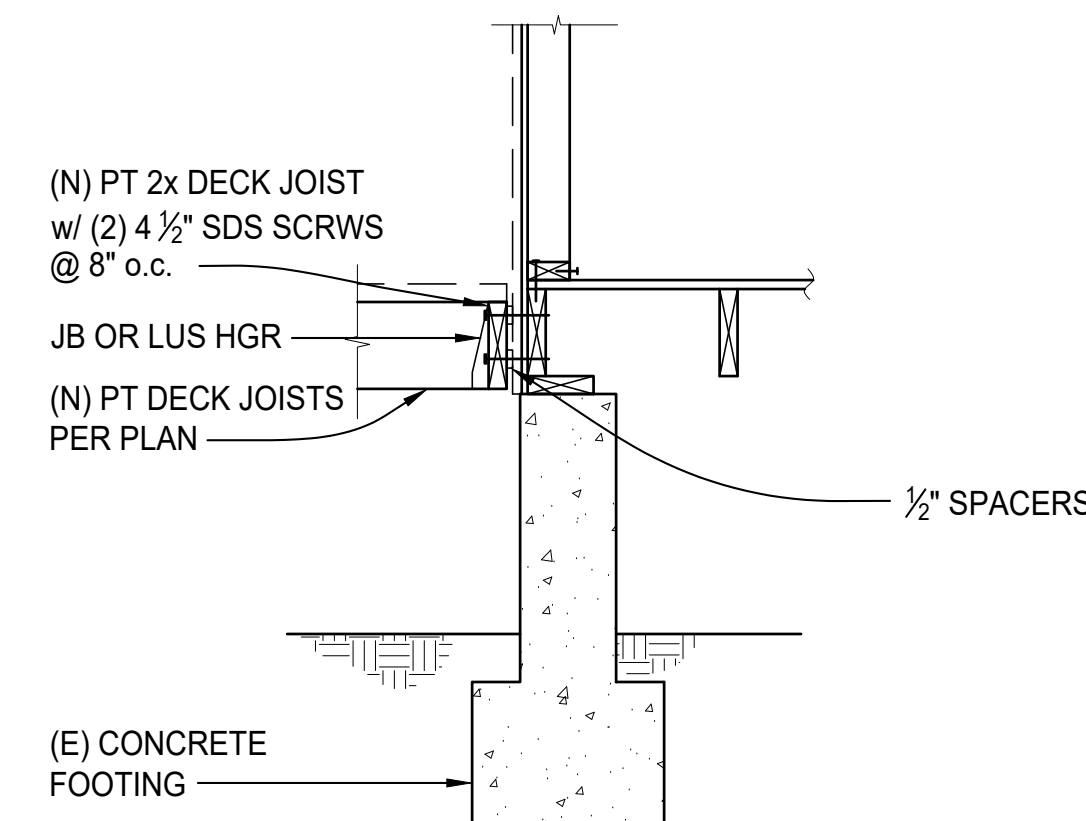
FOR INFORMATION NOT NOTED, SEE DETAIL 9/-



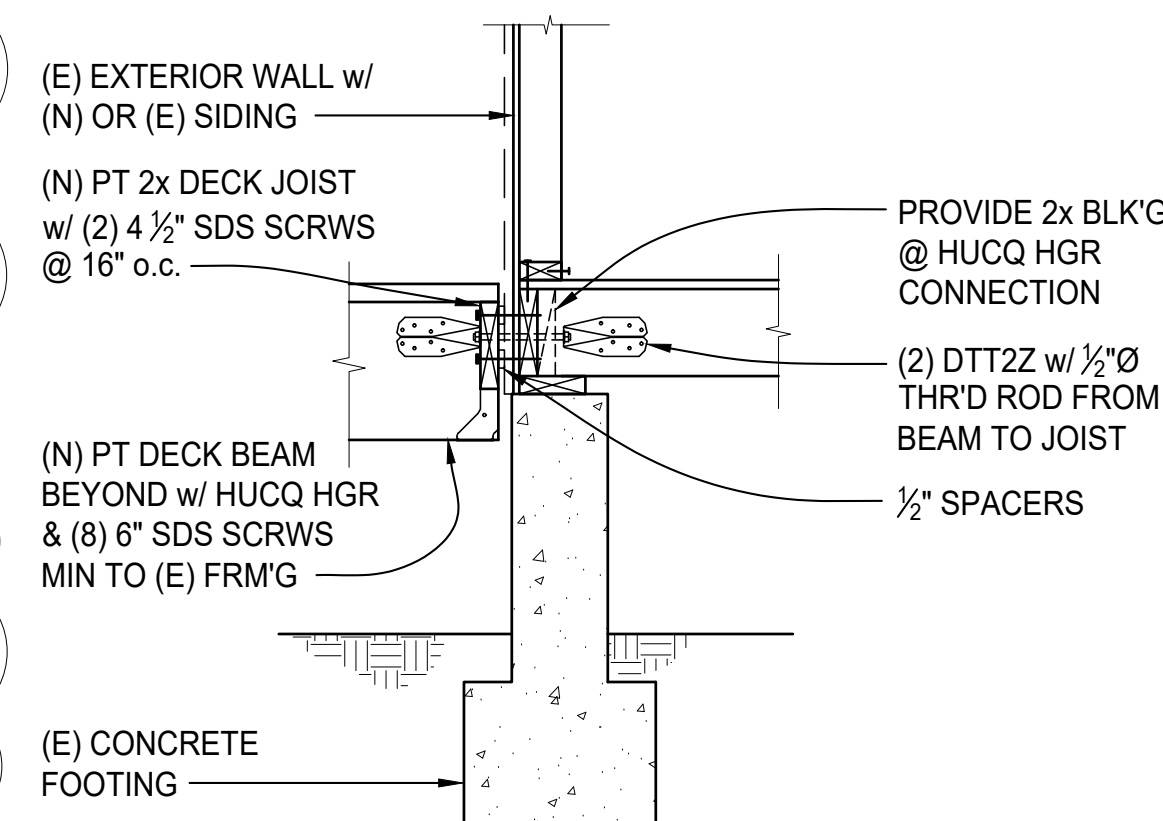
8 (N) SLAB CONNECTION
3/4"=1'-0"

5 NOT USED
3/4"=1'-0"

2 NOT USED
3/4"=1'-0"



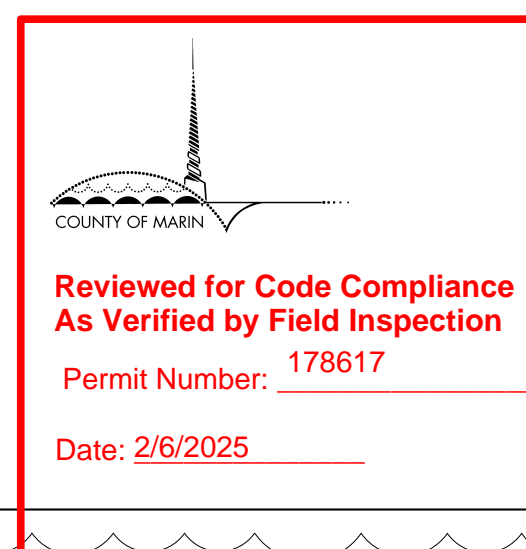
12 (N) DECK CONNECTION
3/4"=1'-0"



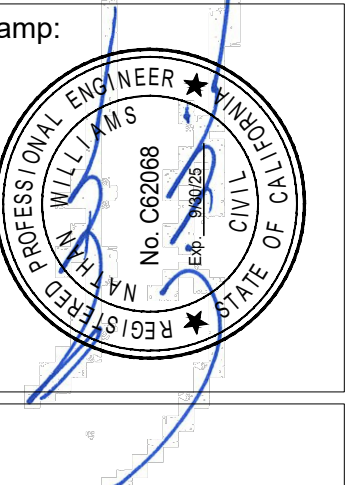
9 (N) DECK CONNECTION
3/4"=1'-0"

6 EXTERIOR WALL MONO FOOTING
3/4"=1'-0"

3 NOT USED
3/4"=1'-0"



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BOLINAS, CA 94924

Revisions:
2 12/19/2024 NW

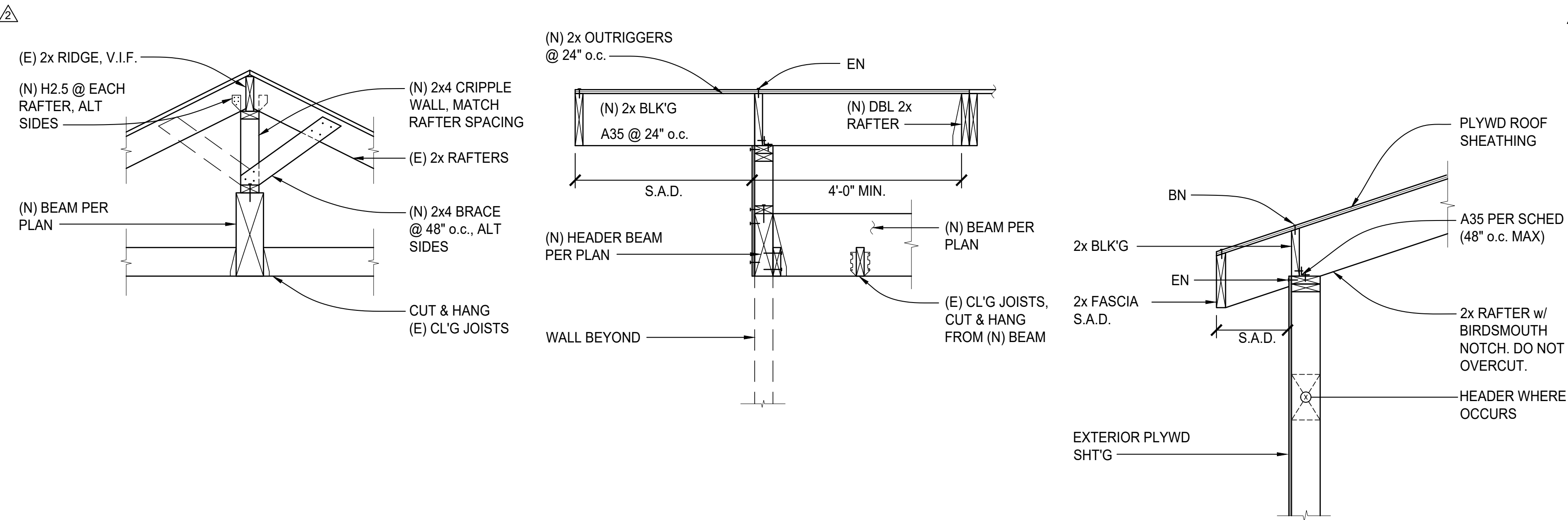
Sheet Title:
CONCRETE DETAILS

Date: --/--/--
Project No: 24002
Drawn By: TES
Checked By: NW

Sheet:

S3.2

S4.1

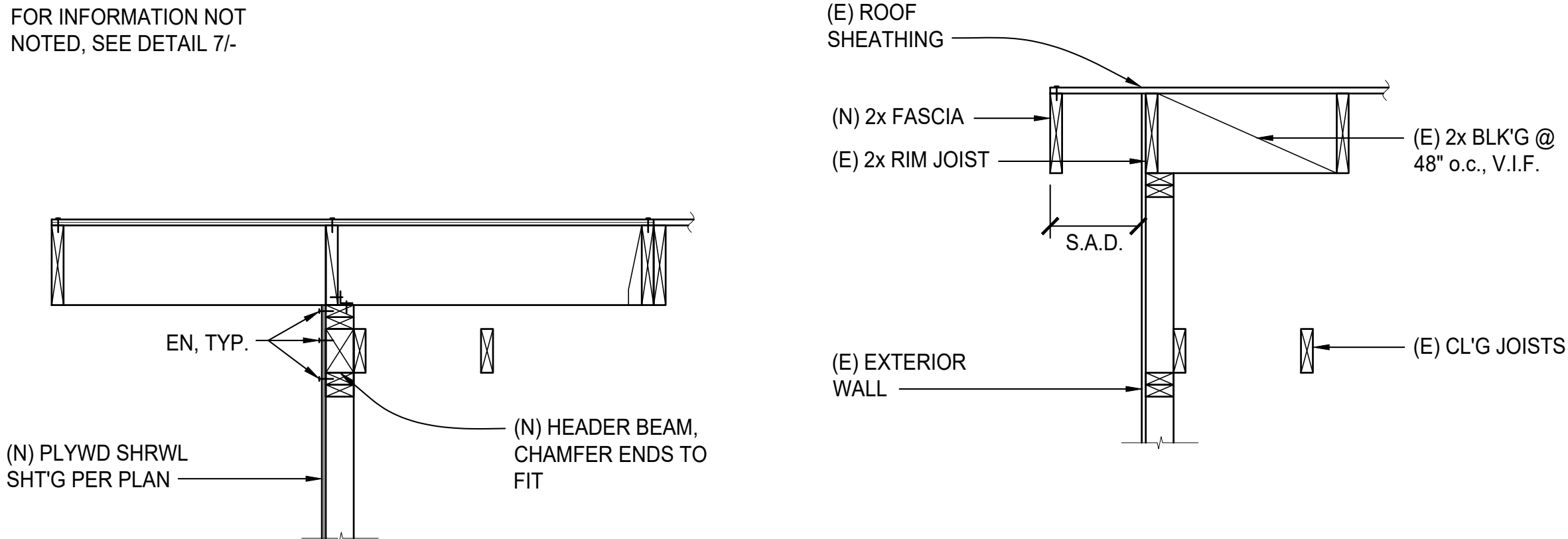


10 (N) CEILING BEAM
3/4"=1'-0"

7 (N) GABLE END OVERHANG
3/4"=1'-0"

4 RAFTERS PERPENDICULAR
3/4"=1'-0"

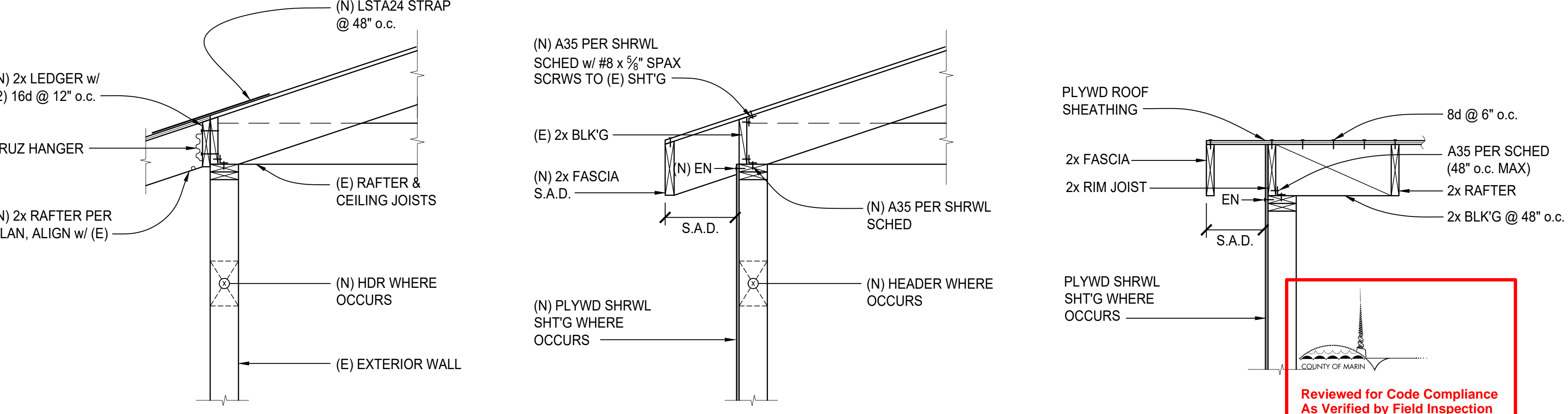
1 NOT USED
1"=1'-0"



8 (N) GABLE END OVERHANG @ SHEARWALL
3/4"=1'-0"

5 (E) RAFTERS PARALLEL
3/4"=1'-0"

2 NOT USED
1"=1'-0"



9 (N) ROOF CONNECTION
3/4"=1'-0"

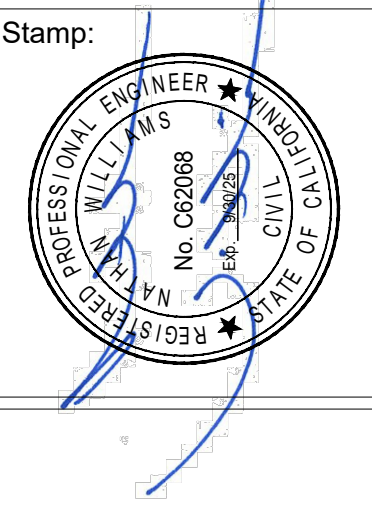
6 (E) RAFTERS/CEILING JOISTS PARALLEL
3/4"=1'-0"

3 RAFTERS PARALLEL
3/4"=1'-0"

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As Verified by Field Inspection
Permit Number: 178617
Date: 2/6/2025



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Revisions:

| | | |
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| 2 | 12/19/2024 | NW |
|---|------------|----|

Sheet Title:
FRAMING DETAILS

Date: --/--/--
Project No: 24002
Drawn By: TES
Checked By: NW

Sheet:

S4.2