

**GENERAL NOTES**

THESE DRAWINGS HAVE BEEN PREPARED FROM THE LATEST INFORMATION AVAILABLE ON EXISTING:

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO STARTING WORK AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OBSERVED.
2. THE CONTRACTOR AND HIS SUBCONTRACTORS ARE RESPONSIBLE FOR REVIEWING THE CONTRACT DOCUMENTS IN DETAIL INCLUDING DIMENSIONS FOR THE PURPOSE OF DETERMINING THAT CAN BE PERFORMED AS SHOWN PRIOR TO PROCEEDING WITH THE WORK. IF ANY CONFLICTS ARISE, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ARCHITECT PRIOR PROCEEDING WITH THE WORK IN QUESTION OR WITH RELATED WORK.
3. DIMENSIONS ARE TO THE FACE OF STUDS UNLESS OTHERWISE INDICATED TO BE FINISH DIMENSIONS.
4. "TYPICAL" MEANS IDENTICAL FOR ALL SAME CONDITIONS UNLESS OTHERWISE NOTED. "SIMILAR" MEANS COMPARABLE CHARACTERISTICS FOR THE CONDITIONS NOTED. VERIFY DIMENSIONS AND ORIENTATION ON THE PLANS. ALL WORK NOT DETAILED OR NOTED SHALL BE CONSTRUCTED IN ACCORDANCE WITH OTHER SIMILAR WORK SHOWN ON THE DRAWINGS AND TYPICAL DETAILS.
5. THE CONTRACTOR SHALL PROVIDE PROTECTIONS OF ALL EXISTING SURFACES, FINISHED, APPLIANCES AND EQUIPMENT NOT INDICATED TO BE DEMOLISHED ANY SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF ANY SUCH ITEMS DAMAGES DURING THE PERFORMANCE OF THE WORK.
6. MANUFACTURERS' SUGGESTED INSTALLATION METHODS AND SPECIFICATIONS SHALL BE FOLLOWED EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE.
7. UTILITIES EXISTING OR TEMPORARY SHALL BE LOCATED AND MARKED BY THE CONTRACTOR TO AVOID DAMAGE OR PERSONAL INJURY.
8. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OR DESIGNER OF ANY SITE CONDITIONS NOT REFLECTED ON THE WORKING DRAWINGS OR DIFFERENCE FROM MAXIMUM OR MINIMUM DIMENSIONS INDICATED. INCLUDING RETAINED EARTH HEIGHT, CONFLICT IN GRADES, ADVERSE SOIL CONDITIONS, GROUND WATER PRESENT, DEEPEDED FOOTINGS, UNCOVERED AND UNEXPECTED UTILITY LINES, ETC.....

**GENERAL NOTES**

9. DRAWINGS AND SPECIFICATIONS REPRESENT FINISHED STRUCTURE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION INCLUDING SHORING AND TEMPORARY BRACING. HE SHALL TAKE ALL NECESSARY MEASURES TO INSURE THE SAFETY OF ALL PERSONS AND STRUCTURES AT THE SITE AND ADJACENT TO THE SITE. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT OR ENGINEER SHALL NOT INCLUDE REVIEW OF THESE MEASURES.
10. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST APPROVED CALIFORNIA BUILDING CODE.
11. THE DRAFTER ON RECORD SHALL HAVE NO LIABILITY WITH RESPECT TO THE STRUCTURAL, MECHANICAL, PLUMBING OR ELECTRICAL SYSTEMS DESIGN DEPICTED HEREIN. CONTRACTOR SHALL VERIFY ALL CODE COMPLIANCE AND FIELD CONDITIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY OWNER OR OWNER'S REPRESENTATIVE IN WRITING SHOULD ANY DISCREPANCIES, UNFORESEEN CONDITIONS, OR CONFLICTS COME TO HIS TENSION. USE OF THESE PLANS SIGNIFY COMPLIANCE AND AGREEMENT WITH THESE TERMS.
12. ALL WORK AND CONSTRUCTION SHALL COMPLY WITH REQUIREMENTS OF "CAL-OSHA". ALL CONSTRUCTION A DEMOLITION FOR THE PROTECTION OF PEDESTRIANS SHALL COMPLY WITH REQUIREMENTS OF THE CURRENT CALIFORNIA BUILDING CODE.
13. GENERAL CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO COMMENCING WORK.
14. CONTRACTOR SHALL DETERMINE, COORDINATE, AND ACCOMMODATE ALL UNDERGROUND SERVICES (ELECTRICAL, GAS, TELEPHONE, ETC.....)
15. PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION CONTRACTOR SHALL VERIFY EXISTENCE AND LOCATION OF ALL ABOVE AND BELOW GRADE UTILITIES (I.E. PLUMBING, ELECTRICAL, TELEPHONE, CATV, GAS, ECT...) ANY DISCREPANCIES IS ASSUMED UTILITY LOCATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
16. NO HAZARDOUS MATERIALS WILL USED ON SITE

**REQUIRED SPECIAL FEATURE**  
SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE, WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

**NOTE**  
NEW AND EXISTING BUILDINGS SHALL HAVE APPROVED ADDRESS NUMBERS, BUILDING NUMBERS OR APPROVED BUILDING IDENTIFICATION PLACED IN A POSITION THAT IS PLAINLY LEGIBLE AND VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. THESE NUMBERS SHALL CONTRAST IN COLOR TO BACKGROUND. NUMBERS SHALL BE A MINIMUM OF 4" HIGH WITH A MINIMUM STROKE WIDTH OF 1/2" INCH. CFC SECTION 505.1.

**CODE COMPLIANCE**  
PROJECT DESIGNED BASED ON THE FOLLOWING CODES:  
2019 CALIFORNIA ELECTRICAL CODE (CEC)  
2019 CALIFORNIA MECHANICAL CODE (CMC)  
2019 CALIFORNIA PLUMBING CODE (CPC)  
2019 CALIFORNIA FIRE CODE (CFC)  
2019 CALIFORNIA BUILDING CODE (CBC)  
2017 NATIONAL ELECTRICAL CODE (NEC)  
2019 CALIFORNIA ENERGY CODE  
2019 CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) AND ALL CITY OF NATIONAL CITY AMENDMENTS.

ALL WORK PERFORMED UNDER THIS PROJECT SHALL CONFORM TO THE 2019 EDITION OF THE CALIFORNIA BUILDING CODE (CBC), AND ALL OTHER APPLICABLE LOCAL AND/OR STATE CODES AND ORDINANCES.

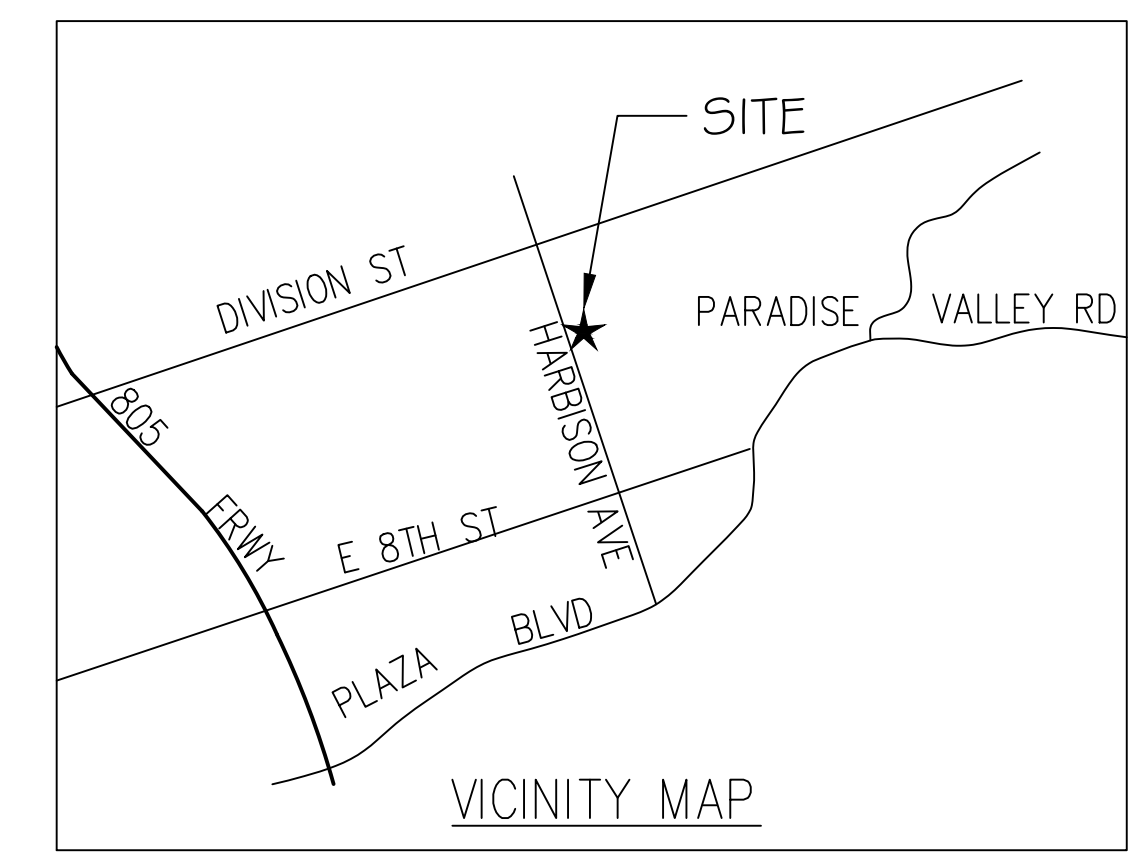
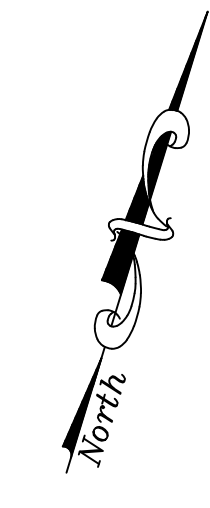
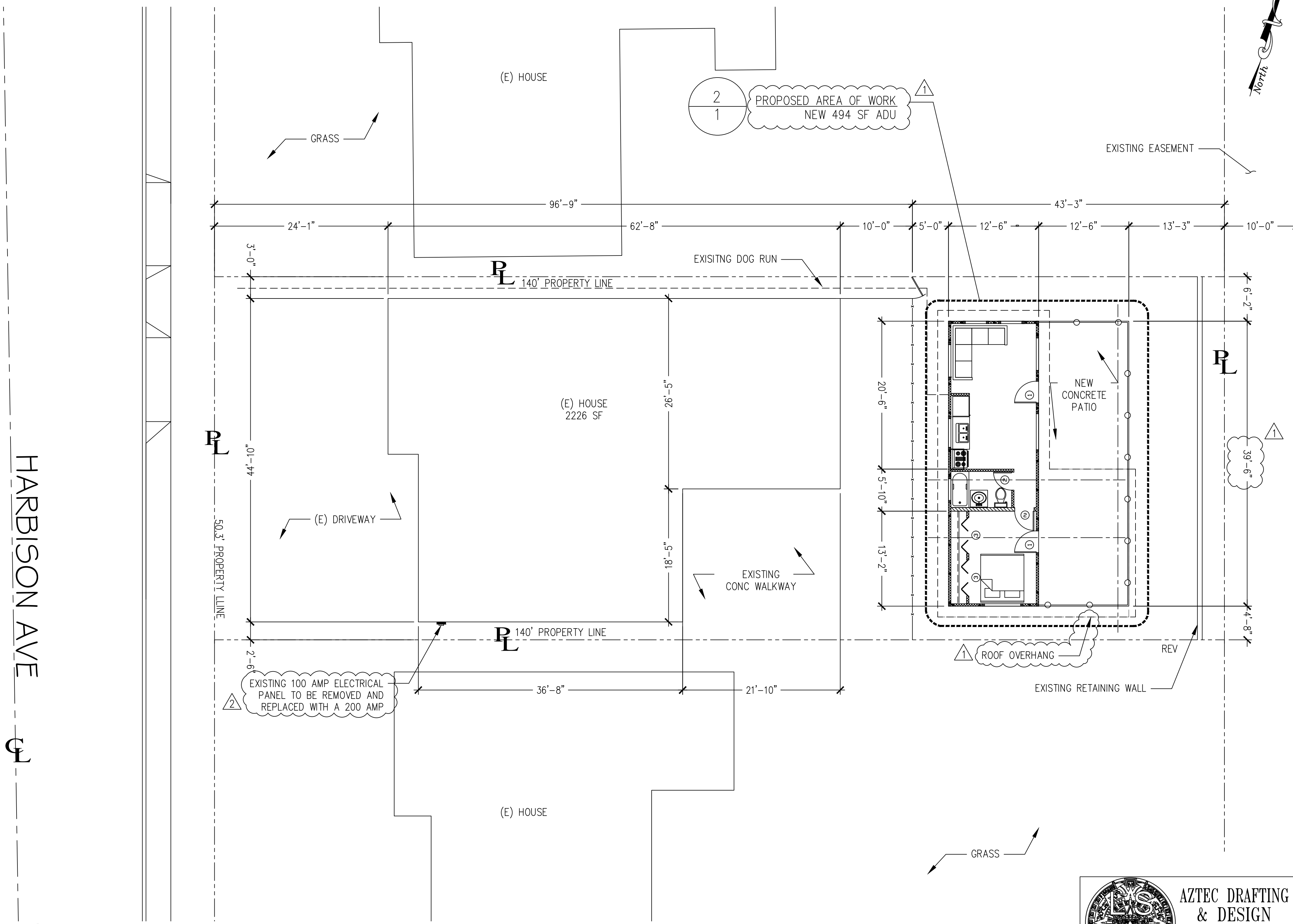
COMPLIANCE WITH THE DOCUMENTATION REQUIREMENTS OF THE 2019 ENERGY EFFICIENCY STANDARDS IS NECESSARY FOR THIS PROJECT. REGISTERED SIGNED, AND DATED COPIES OF THE APPROPRIATE CFIR, CF2R, AND CF3R FORMS SHALL BE MADE AVAILABLE AT NECESSARY INTERNALS FOR BUILDING INSPECTOR REVIEW. FINAL COMPLETED FORMS WILL BE AVAILABLE FOR THE BUILDING OWNER.

**DRAWING LEGENDS:**

- CS - COVER SHEET & SITE PLAN
- 1 - FLOOR PLAN
- 2 - ELEVATIONS
- 3 - ELEVATIONS
- 4 - ELECTRICAL PLAN
- 5 - ROOF PLANS & TRUSS LAYOUT LOCATION
- 6 - SECTIONS
- 7 - FOUNDATION PLAN & DETAILS
- 8 - UTILITY LAYOUT PLAN
- 9 - DETAILS
- 10 - TITLE 24

**PROJECT INFORMATION**

**OWNER NAME:** IRENE SANCHEZ  
**OWNER TELEPHONE:** 619-616-5492  
**PROJECT ADDRESS:** 315 S HARBISON AVE, NATIONAL CITY, CA 91950  
**APN:** 554-112-07-00  
**ZONE:** RS-2  
**(E) LOT AREA:** 2,226 S.F.  
**(E) TENANT AREA:** 2,226 S.F.  
**PROPOSED AREA:** 494 S.F.  
**CONSTRUCTION TYPE:** TYPE V-B (NON-SPRINKLED)  
**OCCUPANCY GROUP:** R-3



**SPECIFY AS INDICATED IN CFIR FORM (TITLE 24): HERS FEATURE SUMMARY**

**BUILDING-LEVEL VERIFICATIONS:**

- INDOOR AIR QUALITY VENTILATION
- KITCHEN RANGE HOOD
- COOLING SYSTEM VERIFICATION: --NONE--
- HEATING SYSTEM VERIFICATIONS:
- VERIFIED HEAT PUMP RATED HEATING CAPACITY
- HVAC DISTRIBUTION SYSTEM VERIFICATIONS: --NONE--
- DOMESTIC HOT WATER SYSTEM VERIFICATIONS: --NONE--

**SCOPE OF WORK**  
PROPOSED 494 SF DETACHED ACCESSORY DWELLING UNIT

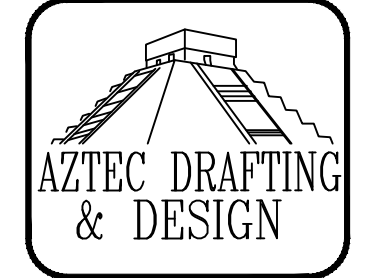
NOTE: ALL WORK IS WITHIN THE EXISTING PROPERTY. SEE SHEET 1 FOR FLOOR PLAN

**1 SITE PLAN**  
1/8"=1'-0"

**AZTEC DRAFTING & DESIGN**  
DESIGNER: LERONEL SOLIS  
EMAIL: LERONEL28@GMAIL  
PHONE: 619-414-8506

I AM THE DESIGNER/OWNER IN RESPONSIBLE CHARGE OF THIS TENANT IMPROVEMENT PROJECT I HAVE INSPECTED THE SITE/PREMISES AND DETERMINED THAT EXISTING CONDITIONS ARE IN FULL COMPLIANCE WITH CURRENT SITE ACCESSIBILITY REQUIREMENTS TO THE EXTENT REQUIRED BY LAW.

PRINTED NAME: \_\_\_\_\_  
SIGNATURE: \_\_\_\_\_  
DATE: \_\_\_\_\_



DRAWINGS PROVIDED BY:  
**AZTEC DRAFTING & DESIGN**  
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EMAIL: LERONEL28@GMAIL.COM  
CELL: 619-414-8506

**315 S HARBISON DETACH DWELLING UNIT**  
554-112-07-00 315 S HARBISON AVENUE, NATIONAL CITY, CALIFORNIA 91950

*Signature*

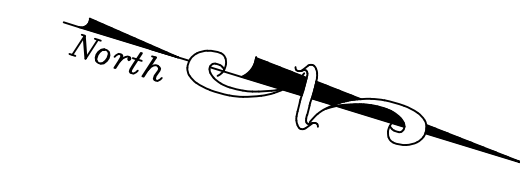
**COVER SHEET**  
**SITE PLAN**

REVISION		
0	-	12/08/21
1	-	07/10/22
2	-	09/26/22
3	-	11/01/22

PROJECT NO. P011  
SHEET NO. CS

**ELECTRICAL NOTES**

- KITCHENS REQUIRE EXHAUST FANS WITH A MINIMUM 100 CFM DUCTED TO THE EXTERIOR. DETAIL COMPLIANCE BY INCLUDING A COMPLYING EXHAUST FAN OR A DUCTED RANGE HOOD TO THE EXTERIOR.
- BATHROOMS REQUIRE EXHAUST FANS (MINIMUM 50 CFM) TO BE DUCTED TO THE EXTERIOR. A BATHROOM IS DEFINED "AS A ROOM WITH A BATHTUB, SHOWER, OR SPA OR SOME SIMILAR SOURCE OF MOISTURE".
- RESIDENTIAL BATHROOM EXHAUST FANS SHALL BE ENERGY STAR RATED AND SHALL BE CONTROL BY A HUMIDISTAT CAPABLE OF AN ADJUSTMENT BETWEEN 50 AND 80% HUMIDITY. CALGREEN 4.506.1. EXCEPTION: CONTROL BY A HUMIDISTAT IS NOT REQUIRED IF THE BATHROOM EXHAUST FAN IS ALSO THE DWELLING WHOLE HOUSE VENTILATION.
- MECHANICAL WHOLE HOUSE VENTILATION MUST BE PROVIDED. IDENTIFY THE FAN PROVIDING THE WHOLE HOUSE VENTILATION (COMPLETE WITH CFM AND SONE RATING) ON THE FLOORPLANS. FOR ADDITIONS 1,000 SQUARE FEET OR LESS, WHOLE HOUSE VENTILATION IS NOT REQUIRED. FOR ADDITIONS OVER 1,000 SQUARE FEET, THE WHOLE HOUSE VENTILATION CFM SHALL BE BASED UPON THE ENTIRE (EXISTING AND ADDITION) SQUARE FOOTAGE, NOT JUST THE ADDITION.
- ALL FANS INSTALLED TO MEET ALL OF THE PRECEDING VENTILATION REQUIREMENTS MUST BE SPECIFIED AT A NOISE RATING OF A MAXIMUM 1 SONES (CONTINUOUS USE) OR 3 SONES (INTERMITTENT).
- THE FOLLOWING SPECIFICATIONS FOR ELECTRICAL DEVICES INSTALLED IN DWELLINGS: CEC ARTICLE 210 & 406
- SEPARATE ADU REQUIRES A SEPARATE GROUND ELECTRODE SYSTEM PER CEC 250.32



**UTILITY PLAN NOTES**

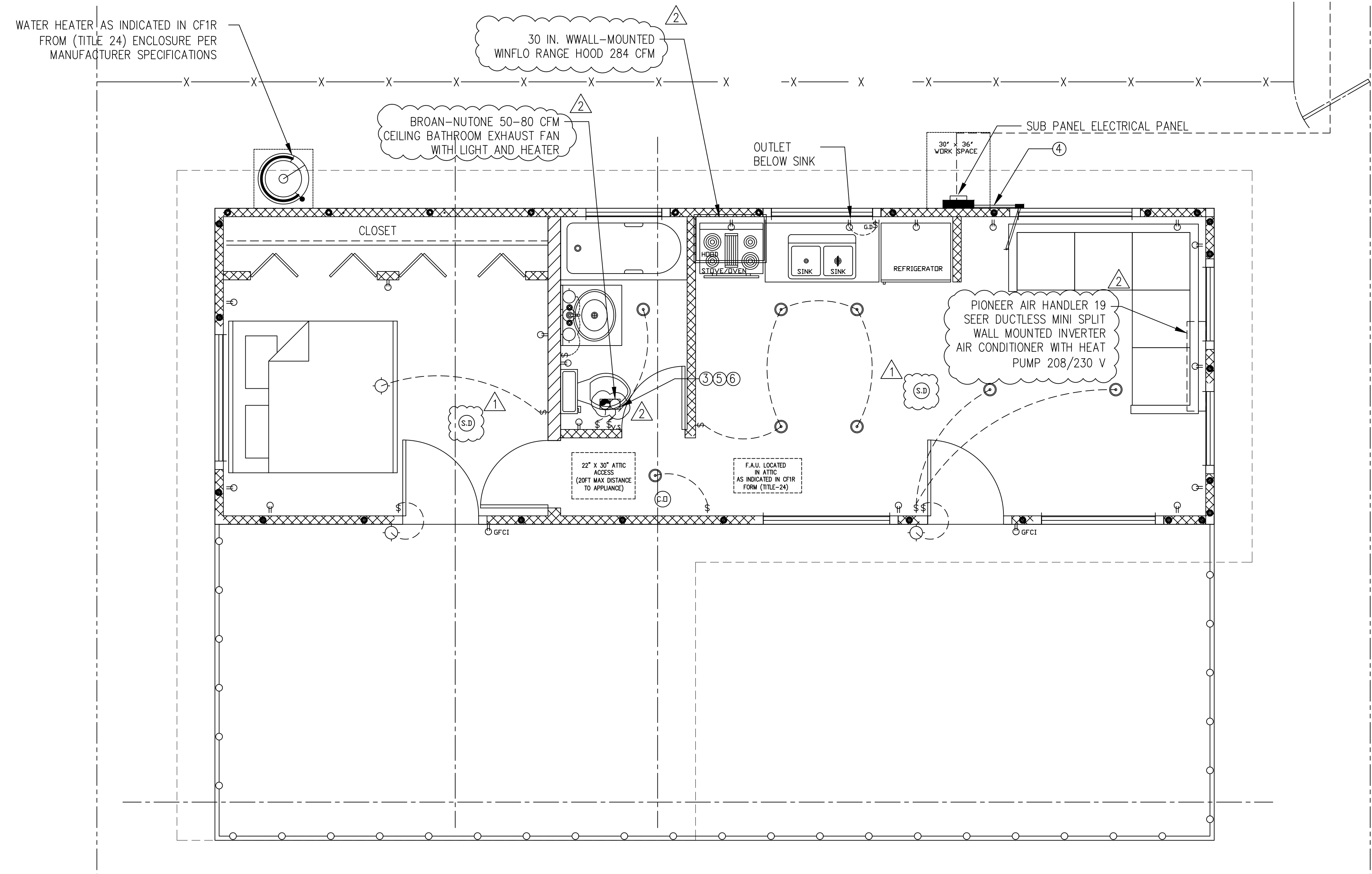
- LOCAL EXHAUST FANS TO PROVIDE MINIMUM 50 CFM INTERMITTENT OR 20 CFM CONTINUOUS VENTILATION.
- SMOKE DETECTORS TO BE INTERCONNECTED PER CRC R314.4 AND HARD-WIRED WITH BATTERY BACK-UP PER CRC R314.6
- CARBON MONOXIDE ALARMS TO BE INTERCONNECTED PER CRC R315.7 AND HARD-WIRED WITH BATTERY BACK-UP PER CRC R315.5
- 4" Ø DRYER VENT WITH MAXIMUM 14 FOOT COMBINED HORIZONTAL AND VERTICAL LENGTH WITH TWO 90 DEGREE ELBOWS.
- A MECHANICAL EXHAUST VENTILATION SYSTEM, SUPPLY VENTILATION SYSTEM, OR COMBINATION THEREOF SHALL BE INSTALLED FOR EACH DWELLING UNIT TO PROVIDE WHOLE-BUILDING VENTILATION WITH OUTDOOR AIR IN COMPLIANCE WITH ASHRAE STANDARD 62.2 AS ADOPTED BY THE CALIFORNIA ENERGY COMMISSION.
- AN INTERMITTENTLY OR CONTINUOUSLY OPERATING LOCAL MECHANICAL EXHAUST VENTILATION SYSTEM SHALL BE INSTALLED IN EACH BATHROOM WITH A BATHTUB, SHOWER, OR SIMILAR MOISTURE SOURCE AND IN EACH KITCHEN IN COMPLIANCE WITH ASHRAE STANDARD 62.2 AS ADOPTED BY THE CALIFORNIA ENERGY COMMISSION. INTERMITTENT LOCAL EXHAUST VENTILATION AIRFLOW RATES SHALL BE 50 CFM IN BATHROOMS AND 100 CFM IN KITCHENS. CONTINUOUS LOCAL EXHAUST VENTILATION AIRFLOW RATES SHALL BE 20 CFM IN BATHROOMS AND 5 AIR CHANGES PER HOUR IN KITCHENS BASED ON KITCHEN VOLUME.
- WATER HEATER OR FURNACE SHALL BE A DIRECT-VENT APPLIANCE
- LISTED GASKETED SELF CLOSING DOOR REQUIRED FOR GAS FAU

**LIGHTING PLAN NOTES**

- ALL LUMINAIRES SHALL BE HIGH-EFFICACY IN ACCORDANCE WITH CBEE'S TABLE 150.0-A  
1.1. LUMINAIRES MUST HAVE A LABEL CERTIFIED FOR AIRTIGHT CONSTRUCTION
- ALL LED LUMINAIRES AND LAMPS SHALL BE MARKED "JA8-2016" AND LISTED IN THE CALIFORNIA ENERGY COMMISSION DATABASE AT [HTTPS://CACERTAPPLIANCES.ENERGY.CA.GOV/PAGES/APPLIANCESEARCH.ASPX](https://CACERTAPPLIANCES.ENERGY.CA.GOV/PAGES/APPLIANCESEARCH.ASPX)
- ALL RECESSED DOWNLIGHT AND ENCLOSED LUMINAIRES SHALL BE MARKED "JA8-2016-E" AND LISTED IN THE CALIFORNIA ENERGY COMMISSION DATABASE AT [HTTPS://CACERTAPPLIANCES.ENERGY.CA.GOV/PAGES/APPLIANCESEARCH.ASPX](https://CACERTAPPLIANCES.ENERGY.CA.GOV/PAGES/APPLIANCESEARCH.ASPX)
- RECESSED DOWNLIGHT LUMINAIRES IN CEILINGS SHALL BE IC LISTED, AIR-TIGHT LABELED, AND NOT EQUIPPED WITH A STANDARD SCREW-BASED SHELL LAMP HOLDER. ES 150.0(K)
- BATHROOMS, GARAGES, LAUNDRY ROOMS, AND UTILITY ROOMS: AT LEAST ONE LUMINAIRE IN EACH SPACE SHALL BE CONTROLLED BY A VACANCY SENSOR
- ALL LUMINAIRES REQUIRING "JA8-2016" OR "JA8-2016-E" MARKING SHALL BE CONTROLLED BY A DIMMER OR VACANCY SENSOR  
EXCEPTION: CLOSETS LESS THAN 70 S.F. & HALLWAYS
- OUTDOOR LIGHTING PERMANENTLY MOUNTED TO BUILDINGS SHALL BE CONTROLLED BY ONE OF THE FOLLOWING:
  - PHOTOCONTROL AND MOTION SENSOR
  - PHOTOCONTROL AND AUTOMATIC TIME-SWITCH CONTROL
  - ASTRONOMICAL TIME CLOCK
  - ENERGY MANAGEMENT CONTROL SYSTEM PER CBEE'S 150.0(K)3AIIIC

**SOLAR READY KEY NOTES**

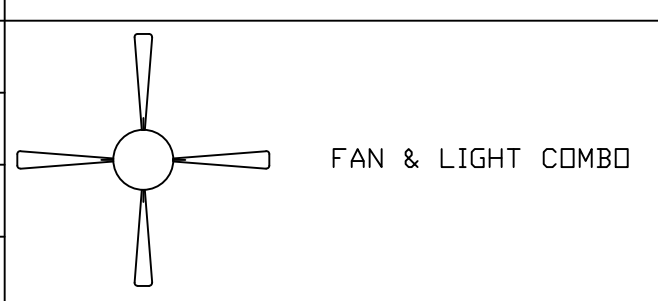
- THE MAIN ELECTRICAL SERVICE PANEL SHALL NOT BE OF A TYPE WITH A CENTER-FED MAIN CIRCUIT BREAKER AND SHALL INCLUDE RESERVED SPACE ALLOWING FOR INSTALLATION OF DOUBLE-POLE CIRCUIT BREAKERS FOR A FUTURE SOLAR PHOTOVOLTAIC SYSTEM. SUCH RESERVED SPACE SHALL BE POSITIONED AT THE OPPOSITE (LOAD) END FROM THE INPUT FEEDER OR MAIN CIRCUIT BREAKER LOCATION. THE RESERVED SPACE SHALL BE PERMANENTLY AND VISIBLY MARKED AS "FOR FUTURE SOLAR PHOTOVOLTAIC"
- APPROVED MINIMUM 4-INCH SQUARE ELECTRICAL JUNCTION BOX LOCATED WITHIN 72 INCHES HORIZONTALLY AND 12 INCHES VERTICAL OF MAIN ELECTRICAL SERVICE PANEL
- MINIMUM 1 INCH DIAMETER LISTED ELECTRICAL METALLIC RACEWAY ORIGINATING AT READILY ACCESSIBLE ATTIC LOCATION WITH PROXIMITY TO SOLAR ZONE AREA AND TERMINATING AT THE REQUIRED ELECTRICAL JUNCTION BOX
- MINIMUM 1 INCH DIAMETER LISTED ELECTRICAL METALLIC RACEWAY ORIGINATING AT THE REQUIRED ELECTRICAL JUNCTION BOX AND TERMINATING AT THE MAIN ELECTRICAL SERVICE PANEL
- ELECTRICAL JUNCTION BOX AND SEGMENT OF METALLIC RACEWAY IN THE ATTIC SHALL BE PERMANENTLY AND VISIBLY MARKED AS "FOR FUTURE SOLAR PHOTOVOLTAIC"



ELECTRICAL LEGEND	
⊖	DUPLEX OUTLET
⊕	WALL SWITCH
⊕ <sub>GD</sub>	GARBAGE DISPOSAL SWITCH
⊕ <sub>V.S</sub>	VACANCY SENSOR
⊕ <sub>4"</sub>	4" DIA. DRYER VENT
⊕ <sub>SD</sub>	SMOKE DETECTOR
⊕ <sub>CD</sub>	CARBON MONOXIDE ALARM
⊕ <sub>FL</sub>	FAN AND LIGHT COMBINATION
⊕	HIGH EFFICACY LIGHT FIXTURE
⊕	HIGH EFFICACY RECESSED LIGHT
⊕	GARBAGE DISPOSAL

**WALL LEGEND**

- 2X4 WALL
- 2X6 WALL



**2 ELECTRICAL PLAN**  
1/4"=1'-0"



DRAWINGS PROVIDED BY:  
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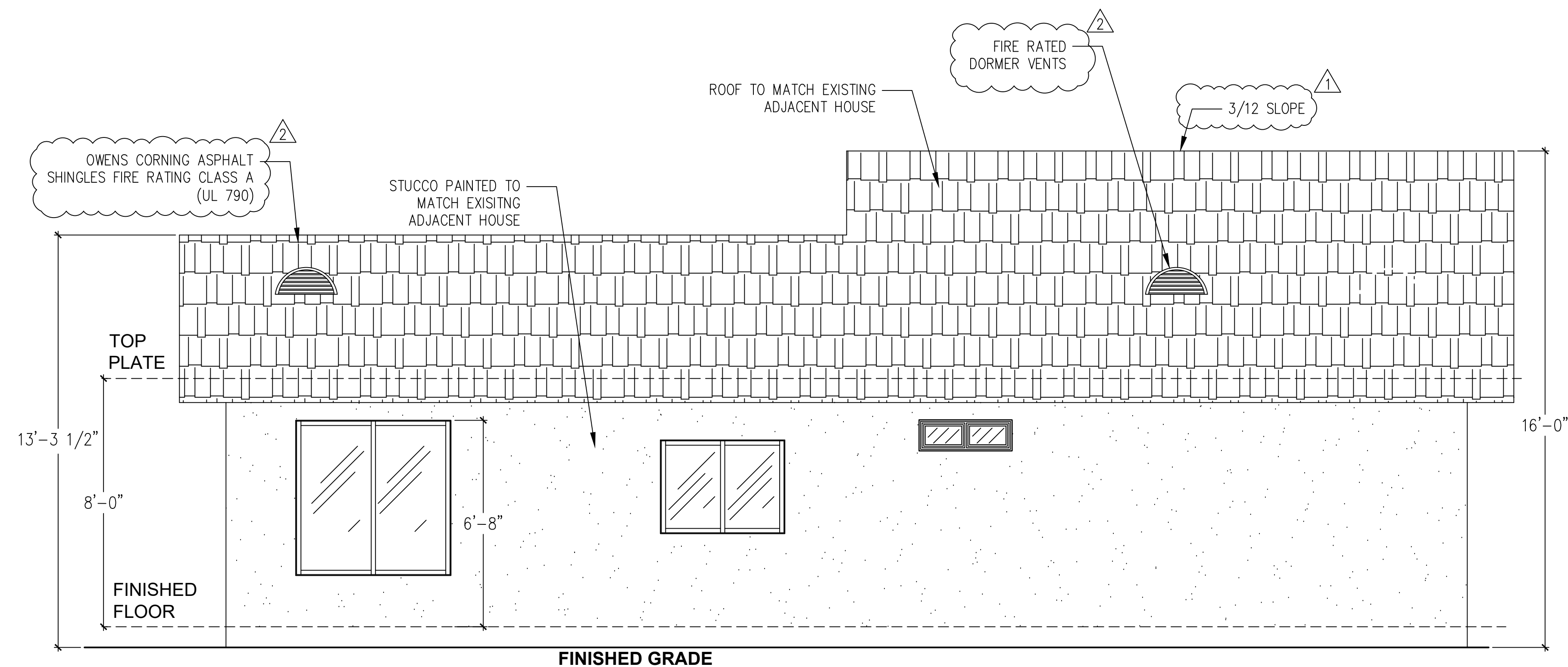
**315 S HARBISON DETACH DWELLING UNIT**  
554-112-07-0 315 S HARBISON AVENUE,  
NATIONAL CITY, CALIFORNIA 91950

*Seavolt*

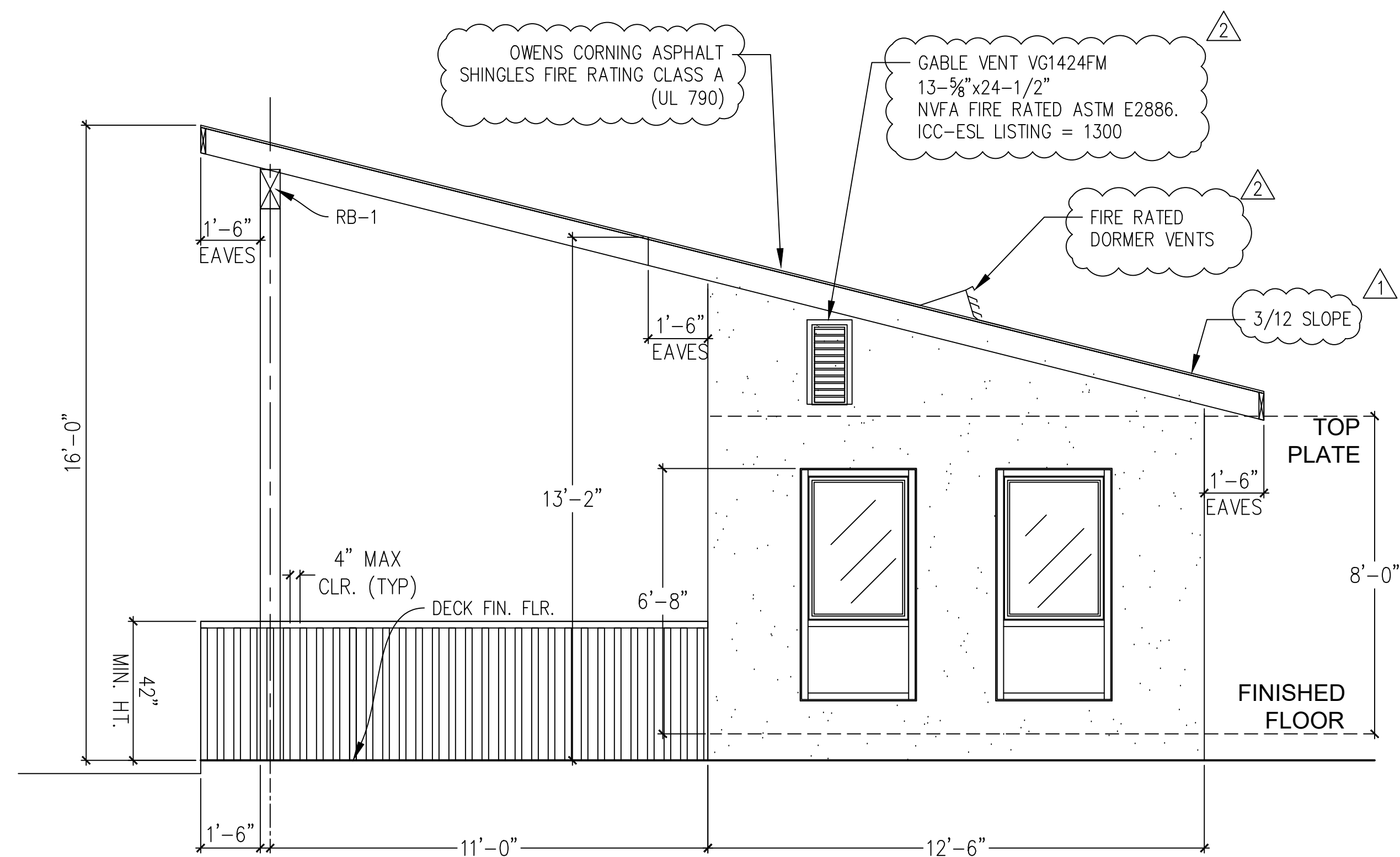
**ELECTRICAL PLANS**

REVISION		
0	-	12/08/21
1	-	07/10/22
2	-	09/26/22
3	-	11/01/22

PROJECT NO.  
**P011**  
SHEET NO.



**3 ADU WEST ELEVATION**  
3/8"=1'-0"



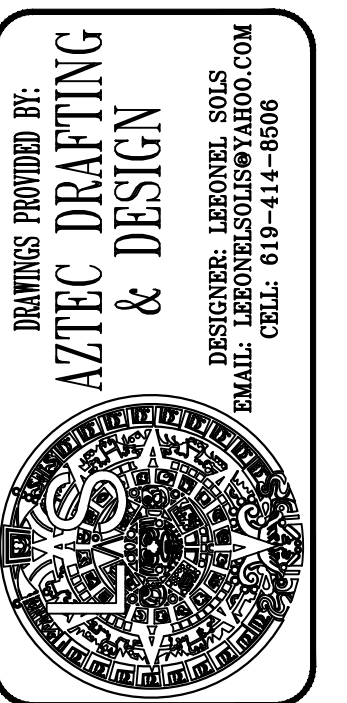
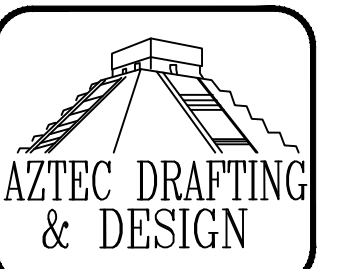
**4 ADU NORTH ELEVATION**  
3/8"=1'-0"

**GENERAL PLAN NOTES**

- ATTIC VENTILATION OPENINGS SHALL BE COVERED WITH CORROSION-RESISTANT METAL MESH WITH 1/16" MINIMUM TO 1/4" MAXIMUM OPENINGS. SECTION R806.1

**WILDFIRE ZONE PLAN NOTES**

- IN ROOF COVERINGS WHERE THE PROFILE CREATES SPACE BETWEEN THE ROOF COVERING AND COMBUSTIBLE ROOF DECKING, SPECIFY ONE OF THE FOLLOWING MEANS OF PROTECTING SPACES AT EAVES ENDS.
  - FIRE-STOPPING WITH APPROVED MATERIALS
  - ONE LAYER OF 72 POUND (32.4 KG) MINERAL-SURFACED NON-PERFORATED CAP SHEET COMPLYING WITH ASTM D 3909 INSTALLED OVER THE COMBUSTIBLE DECKING
  - OTHERWISE CONSTRUCTED TO PREVENT INTRUSION OF FLAMES AND EMBERS
- EXPOSED VALLEY FLASHINGS SHALL BE CONSTRUCTED WITH NOT LESS THAN 0.019-INCH (NO. 26 GALVANIZED SHEET GAGE) CORROSION-RESISTANT METAL INSTALLED OVER A MINIMUM 36-INCH-WIDE UNDERLAYMENT CONSISTING OF ONE LAYER OF NO. 72 ASTM CAP SHEET RUNNING THE FULL LENGTH OF THE VALLEY.
- ANY ROOF GUTTERS SHALL BE PROVIDED WITH MEANS TO PREVENT ACCUMULATION OF LEAVES AND DEBRIS.
- SKYLIGHTS SHALL BE TEMPERED GLASS.
- ALL VENTS (ROOF, FOUNDATION, COMBUSTION-AIR, ETC) SHALL RESIST THE INTRUSION OF FLAMES AND EMBERS
- VENTILATION OPENINGS FOR ENCLOSED CRAWLSPACES, EAVE SOFFIT SPACES, ENCLOSED RAFTER SPACES FORMED WHERE CEILINGS ARE APPLIED DIRECTLY TO THE UNDERSIDE OF ROOF RAFTERS, UNDER FLOOR VENTILATION OPENINGS, AND VENT OPENINGS IN EXTERIOR WALLS AND EXTERIOR DOORS SHALL BE LISTED TO ASTM E 2886 AND COMPLY WITH ALL OF THE FOLLOWING:
  - THERE SHALL BE NO FLAMING IGNITION OF THE COTTON MATERIAL DURING THE EMBER INTRUSION TEST
  - THERE SHALL BE NO FLAMING IGNITION DURING THE INTEGRITY TEST PORTION OF THE FLAME INTRUSION TEST
  - THE MAXIMUM TEMPERATURE OF THE UNEXPOSED SIDE OF THE VENT SHALL NOT EXCEED 662 DEGREES FAHRENHEIT (350 DEGREES CELSIUS)
- EXTERIOR WALL FINISH SHALL COMPLY WITH ONE OF THE FOLLOWING:
  - NON-COMBUSTIBLE MATERIAL (STUCCO, CEMENT FIBER BOARD, ETC)
    - STUCCO AND CEMENT PLASTER USED AS AN EXTERIOR WALL COVERING SHALL BE 7/8-INCH THICK
    - NONCOMBUSTIBLE OR FIRE-RETARDANT-TREATED WOOD SHAKE USED AS AN EXTERIOR WALL COVERING SHALL HAVE AN UNDERLAYMENT OF MINIMUM 1/2-INCH FIRE-RATED GYPSUM SHEATHING THAT IS TIGHTLY BUTTED, OR TAPED AND MUDDED, OR AN UNDERLAYMENT OF OTHER IGNITION-RESISTANT MATERIAL APPROVED BY THE BUILDING OFFICIAL.
  - IGNITION-RESISTANT MATERIAL
- PATIO COVER, CARPORT AND TRELLIS CONSTRUCTION WITH ALL EXPOSED ELEMENTS SHALL COMPLY WITH ANY OF THE FOLLOWING:
  - NON-COMBUSTIBLE MATERIAL
  - 1-HOUR FIRE-RESISTANT-RATED MATERIAL
  - APPROVED EXTERIOR FIRE-RETARDANT TREATED WOOD
  - MODIFIED HEAVY TIMBER (MIN 2X TONGUE-AND-GROOVE SHEATHING, 4X6 RAFTERS/BEAMS, 6X6 POSTS)
- DECK, BALCONY, AND EXTERIOR STAIR CONSTRUCTION, WITH ALL EXPOSED ELEMENTS SHALL COMPLY WITH THE FOLLOWING:
  - FRAMING
    - NON-COMBUSTIBLE MATERIAL
    - 1-HOUR FIRE-RESISTANT-RATED MATERIAL
    - APPROVED EXTERIOR FIRE-RETARDANT TREATED WOOD
    - MODIFIED HEAVY TIMBER (MIN 4X8 JOISTS, 4X10 OR 6X8 BEAMS, 6X6 POSTS)
  - DECKING AND TREAD MATERIAL (ANY OF THE FOLLOWING):
    - NON-COMBUSTIBLE MATERIAL
    - 1-HOUR FIRE-RESISTANT-RATED MATERIAL
    - APPROVED EXTERIOR FIRE-RETARDANT TREATED WOOD
    - APPROVED ALTERNATIVE DECKING MATERIAL MEETING TESTS REQUIREMENTS OF COUNTY BUILDING CODE 92.1.709A.1.4)
- EXTERIOR GARAGE DOORS SHALL RESIST THE INTRUSION OF EMBERS INTO THE GARAGE BY LIMITING THE SIZE OF ANY GAPS AT THE BOTTOM, SIDES, AND TOP OF THE DOOR TO 1/8 INCH OR LESS USING ONE OF THE FOLLOWING METHODS
  - WEATHER-STRIPPING PRODUCTS WITH TENSILE STRENGTH AND FLAMMABILITY RATING PER CBC 708A.4
  - DOOR OVERLAPS ONTO JAMBS AND HEADERS
  - GARAGE DOOR JAMBS AND HEADERS COVERED WITH METAL FLASHING
- PAPER-FACED INSULATION PROHIBITED IN CRAWLSPACE OR OTHER VENTILATED SPACES.
- FENCES OR ANY STRUCTURE WITHIN 5 FEET OF BUILDING SHALL BE CONSTRUCTED PER ONE OF THE FOLLOWING:
  - NON-COMBUSTIBLE MATERIAL
  - APPROVED EXTERIOR FIRE-RETARDANT TREATED WOOD
  - MATERIAL MEETING SAME FIRE-RESISTIVE STANDARDS AS EXTERIOR WALLS OF BUILDINGS



**315 S HARBISON DETACH DWELLING UNIT**  
554-112-07-0 315 S HARBISON AVENUE, NATIONAL CITY, CALIFORNIA 91950

*Signature*

**ELEVATIONS**

REVISION		
0	-	12/08/21
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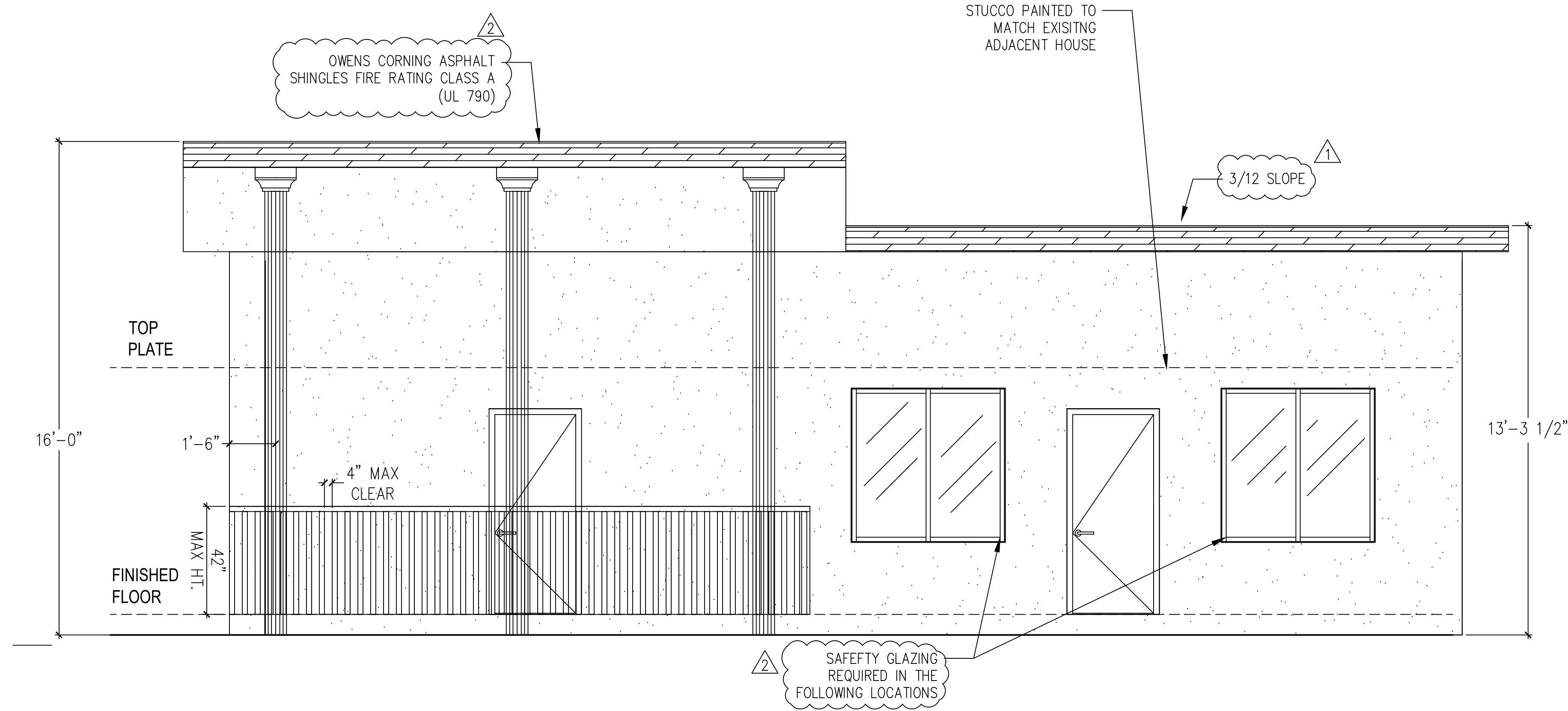
PROJECT NO. P011  
SHEET NO. 2

**GENERAL PLAN NOTES**

- ATTIC VENTILATION OPENINGS SHALL BE COVERED WITH CORROSION-RESISTANT METAL MESH WITH 1/16" MINIMUM TO 1/4" MAXIMUM OPENINGS. SECTION R806.1
- SAFETY GLAZING MATERIAL IN ACCORDANCE WITH SECTION R308.4:B GLAZING ADJACENT TO A DOOR WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60" ABOVE THE WALKING SURFACE. AND IT MEETS EITHER OF THE FOLLOWING CONDITIONS: WHERE THE GLAZING IS WITHIN 24" OF EITHER SIDE OF THE DOOR IN THE PLANE OF THE DOOR IN A CLOSED POSITION. WHERE THE GLAZING IS ON A WALL LESS THAN 180 DEGREES FROM THE PLANE OF THE DOOR IN A CLOSED POSITION AND WITHIN 24" OF THE HINGE SIDE OF AN IN-SWINGING DOOR.

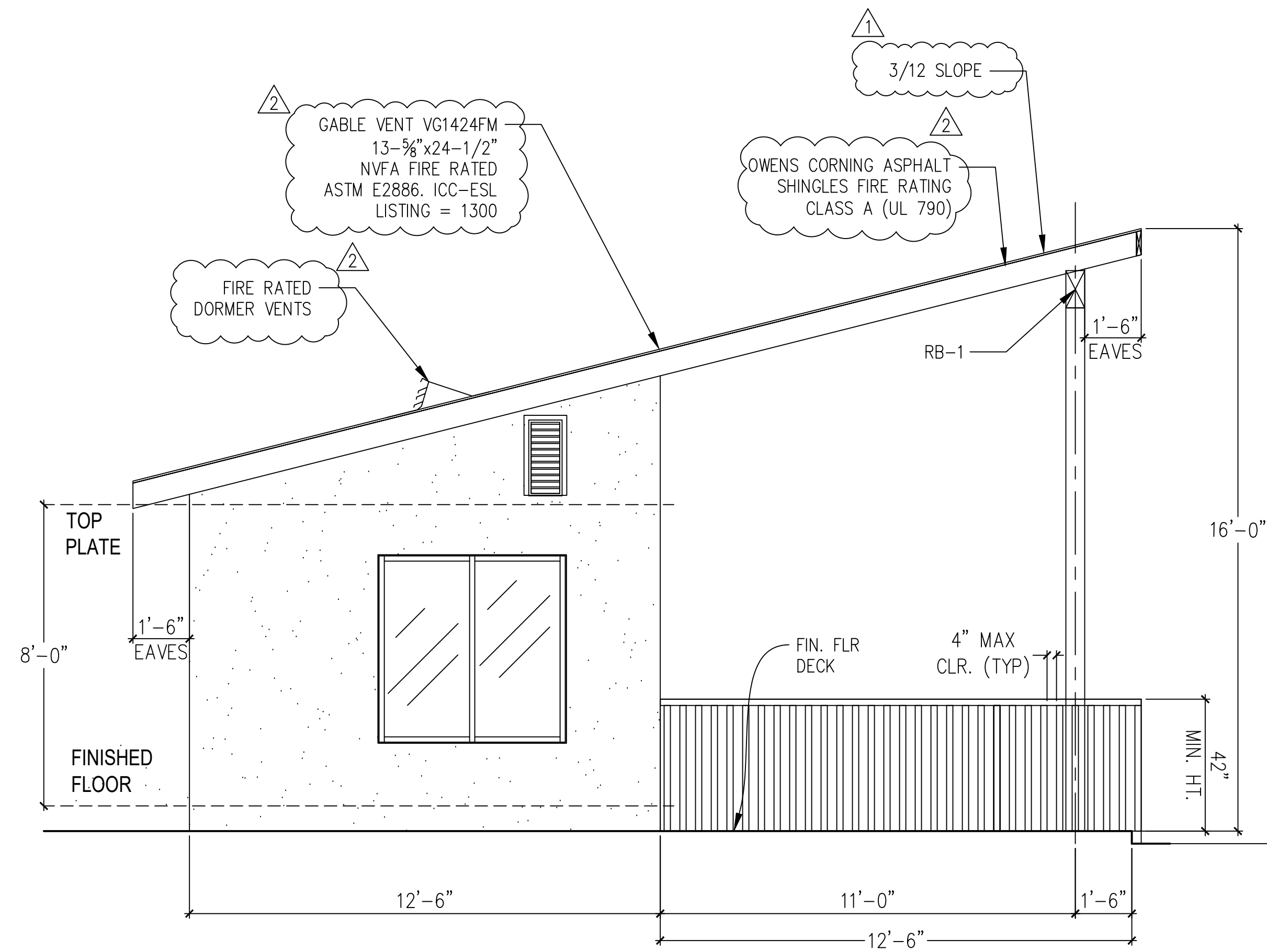
**WILDFIRE ZONE PLAN NOTES**

- IN ROOF COVERINGS WHERE THE PROFILE CREATES SPACE BETWEEN THE ROOF COVERING AND COMBUSTIBLE ROOF DECKING, SPECIFY ONE OF THE FOLLOWING MEANS OF PROTECTING SPACES AT EAVES ENDS.
  - FIRE-STOPPING WITH APPROVED MATERIALS
  - ONE LAYER OF 72 POUND (32.4 KG) MINERAL-SURFACED NON-PERFORATED CAP SHEET COMPLYING WITH ASTM D 3909 INSTALLED OVER THE COMBUSTIBLE DECKING
  - OTHERWISE CONSTRUCTED TO PREVENT INTRUSION OF FLAMES AND EMBERS
- EXPOSED VALLEY FLASHINGS SHALL BE CONSTRUCTED WITH NOT LESS THAN 0.019-INCH (NO. 26 GALVANIZED SHEET GAGE) CORROSION-RESISTANT METAL INSTALLED OVER A MINIMUM 36-INCH-WIDE UNDERLAYMENT CONSISTING OF ONE LAYER OF NO. 72 ASTM CAP SHEET RUNNING THE FULL LENGTH OF THE VALLEY.
- ANY ROOF GUTTERS SHALL BE PROVIDED WITH MEANS TO PREVENT ACCUMULATION OF LEAVES AND DEBRIS.
- SKYLIGHTS SHALL BE TEMPERED GLASS.
- ALL VENTS (ROOF, FOUNDATION, COMBUSTION-AIR, ETC) SHALL RESIST THE INTRUSION OF FLAMES AND EMBERS
- VENTILATION OPENINGS FOR ENCLOSED *crawlspace*, EAVE SOFFIT SPACES, ENCLOSED RAFTER SPACES FORMED WHERE CEILINGS ARE APPLIED DIRECTLY TO THE UNDERSIDE OF ROOF RAFTERS, UNDERFLOOR VENTILATION OPENINGS, AND VENT OPENINGS IN EXTERIOR WALLS AND EXTERIOR DOORS SHALL BE LISTED TO ASTM E 2886 AND COMPLY WITH ALL OF THE FOLLOWING:
  - THERE SHALL BE NO FLAMING IGNITION OF THE COTTON MATERIAL DURING THE EMBER INTRUSION TEST
  - THERE SHALL BE NO FLAMING IGNITION DURING THE INTEGRITY TEST
  - THE MAXIMUM TEMPERATURE OF THE UNEXPOSED SIDE OF THE VENT SHALL NOT EXCEED 662 DEGREES FAHRENHEIT (350 DEGREES CELSIUS)
- EXTERIOR WALL FINISH SHALL COMPLY WITH ONE OF THE FOLLOWING:
  - NON-COMBUSTIBLE MATERIAL (STUCCO, CEMENT FIBER BOARD, ETC)
    - STUCCO AND CEMENT PLASTER USED AS AN EXTERIOR WALL COVERING SHALL BE 7/8-INCH THICK
  - NONCOMBUSTIBLE OR FIRE-RETARDANT-TREATED WOOD SHAKE USED AS AN EXTERIOR WALL COVERING SHALL HAVE AN UNDERLAYMENT OF MINIMUM 1/2-INCH FIRE-RATED GYPSUM SHEATHING THAT IS TIGHTLY BUTTED, OR TAPED AND MUDDED, OR AN UNDERLAYMENT OF OTHER IGNITION-RESISTANT MATERIAL APPROVED BY THE BUILDING OFFICIAL.
- PATIO COVER, CARPORT AND TRELLIS CONSTRUCTION WITH ALL EXPOSED ELEMENTS SHALL COMPLY WITH ANY OF THE FOLLOWING:
  - NON-COMBUSTIBLE MATERIAL
  - 1-HOUR FIRE-RESISTANT-RATED MATERIAL
  - APPROVED EXTERIOR FIRE-RETARDANT TREATED WOOD
  - MODIFIED HEAVY TIMBER (MIN 2X TONGUE-AND-GROOVE SHEATHING, 4X6 RAFTERS/BEAMS, 6X6 POSTS)
- DECK, BALCONY, AND EXTERIOR STAIR CONSTRUCTION, WITH ALL EXPOSED ELEMENTS SHALL COMPLY WITH THE FOLLOWING:
  - FRAMING
    - NON-COMBUSTIBLE MATERIAL
    - 1-HOUR FIRE-RESISTANT-RATED MATERIAL
    - APPROVED EXTERIOR FIRE-RETARDANT TREATED WOOD
    - MODIFIED HEAVY TIMBER (MIN 4X8 JOISTS, 4X10 OR 6X8 BEAMS, 6X6 POSTS)
  - DECKING AND TREAD MATERIAL (ANY OF THE FOLLOWING):
    - NON-COMBUSTIBLE MATERIAL
    - 1-HOUR FIRE-RESISTANT-RATED MATERIAL
    - APPROVED EXTERIOR FIRE-RETARDANT TREATED WOOD
    - APPROVED ALTERNATIVE DECKING MATERIAL MEETING TESTS REQUIREMENTS OF COUNTY BUILDING CODE 92.1.709A.1.4)
- EXTERIOR GARAGE DOORS SHALL RESIST THE INTRUSION OF EMBERS INTO THE GARAGE BY LIMITING THE SIZE OF ANY GAPS AT THE BOTTOM, SIDES, AND TOP OF THE DOOR TO 1/8 INCH OR LESS USING ONE OF THE FOLLOWING METHODS
  - WEATHER-STRIPPING PRODUCTS WITH TENSILE STRENGTH AND FLAMMABILITY RATING PER CBC 708A.4
  - DOOR OVERLAPS ONTO JAMBS AND HEADERS
  - GARAGE DOOR JAMBS AND HEADERS COVERED WITH METAL FLASHING
- PAPER-FACED INSULATION PROHIBITED IN *crawlspace* OR OTHER VENTILATED SPACES.
- FENCES OR ANY STRUCTURE WITHIN 5 FEET OF BUILDING SHALL BE CONSTRUCTED PER ONE OF THE FOLLOWING:
  - NON-COMBUSTIBLE MATERIAL
  - APPROVED EXTERIOR FIRE-RETARDANT TREATED WOOD
  - MATERIAL MEETING SAME FIRE-RESISTIVE STANDARDS AS EXTERIOR WALLS OF BUILDINGS



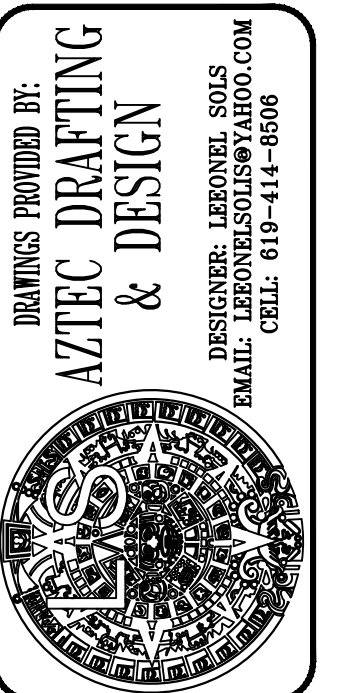
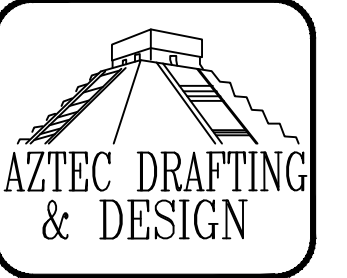
**5 ADU EAST ELEVATION**

1/4"=1'-0"



**6 ADU SOUTH ELEVATION**

1/4"=1'-0"



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*Seawall*

ELEVATIONS

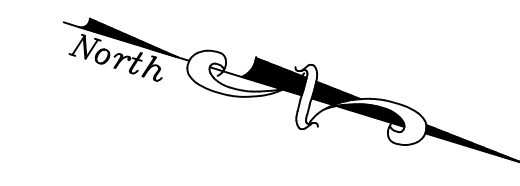
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**ELECTRICAL NOTES**

- KITCHENS REQUIRE EXHAUST FANS WITH A MINIMUM 100 CFM DUCTED TO THE EXTERIOR. DETAIL COMPLIANCE BY INCLUDING A COMPLYING EXHAUST FAN OR A DUCTED RANGE HOOD TO THE EXTERIOR.
- BATHROOMS REQUIRE EXHAUST FANS (MINIMUM 50 CFM) TO BE DUCTED TO THE EXTERIOR. A BATHROOM IS DEFINED "AS A ROOM WITH A BATHTUB, SHOWER, OR SPA OR SOME SIMILAR SOURCE OF MOISTURE".
- RESIDENTIAL BATHROOM EXHAUST FANS SHALL BE ENERGY STAR RATED AND SHALL BE CONTROL BY A HUMIDISTAT CAPABLE OF AN ADJUSTMENT BETWEEN 50 AND 80% HUMIDITY. CALGREEN 4.506.1. EXCEPTION: CONTROL BY A HUMIDISTAT IS NOT REQUIRED IF THE BATHROOM EXHAUST FAN IS ALSO THE DWELLING WHOLE HOUSE VENTILATION.
- MECHANICAL WHOLE HOUSE VENTILATION MUST BE PROVIDED. IDENTIFY THE FAN PROVIDING THE WHOLE HOUSE VENTILATION (COMPLETE WITH CFM AND SONE RATING) ON THE FLOORPLANS. FOR ADDITIONS 1,000 SQUARE FEET OR LESS, WHOLE HOUSE VENTILATION IS NOT REQUIRED. FOR ADDITIONS OVER 1,000 SQUARE FEET, THE WHOLE HOUSE VENTILATION CFM SHALL BE BASED UPON THE ENTIRE (EXISTING AND ADDITION) SQUARE FOOTAGE, NOT JUST THE ADDITION.
- ALL FANS INSTALLED TO MEET ALL OF THE PRECEDING VENTILATION REQUIREMENTS MUST BE SPECIFIED AT A NOISE RATING OF A MAXIMUM 1 SONES (CONTINUOUS USE) OR 3 SONES (INTERMITTENT).
- THE FOLLOWING SPECIFICATIONS FOR ELECTRICAL DEVICES INSTALLED IN DWELLINGS: CEC ARTICLE 210 & 406
- SEPARATE ADU REQUIRES A SEPARATE GROUND ELECTRODE SYSTEM PER CEC 250.32



**UTILITY PLAN NOTES**

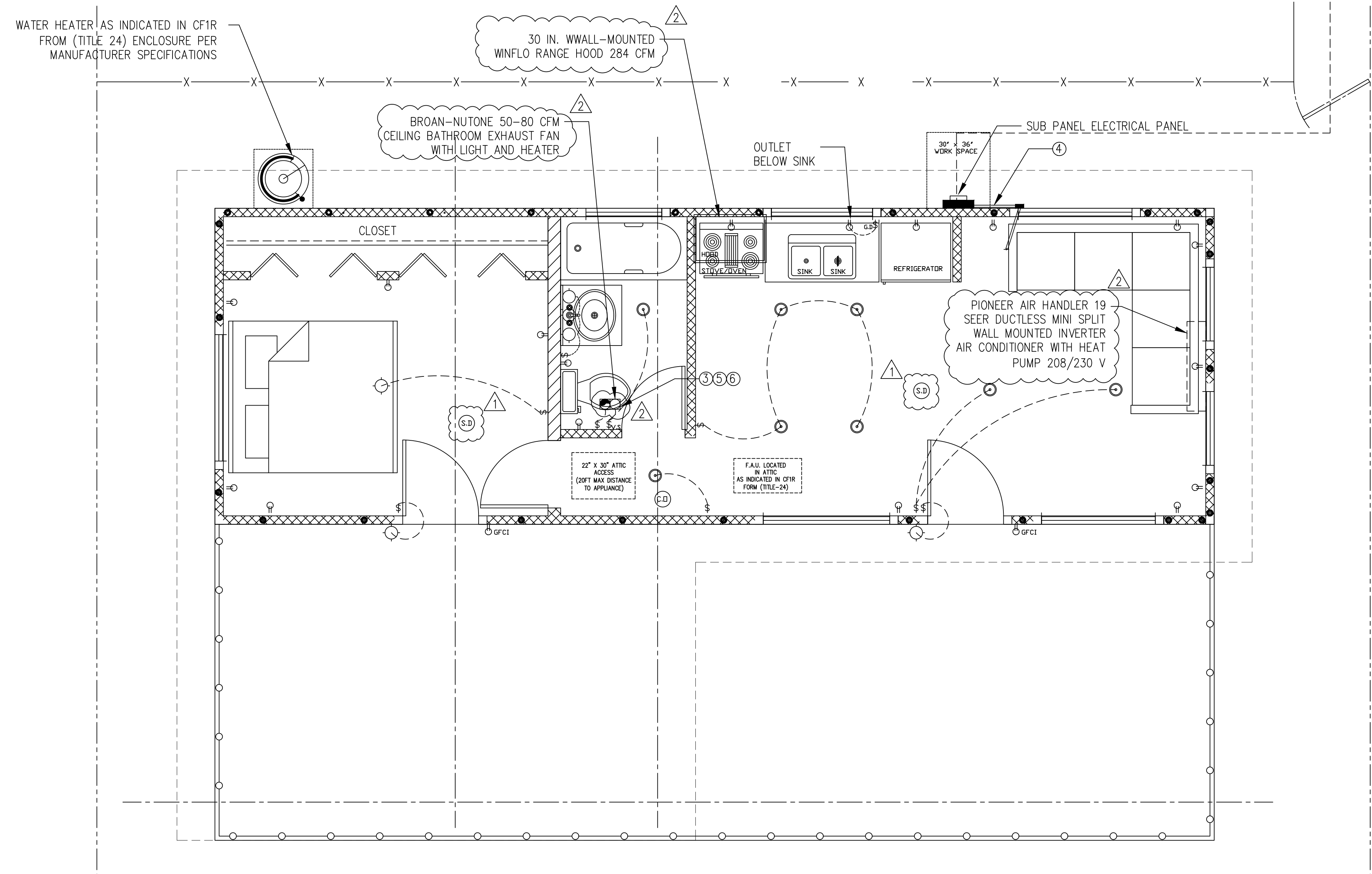
- LOCAL EXHAUST FANS TO PROVIDE MINIMUM 50 CFM INTERMITTENT OR 20 CFM CONTINUOUS VENTILATION.
- SMOKE DETECTORS TO BE INTERCONNECTED PER CRC R314.4 AND HARD-WIRED WITH BATTERY BACK-UP PER CRC R314.6
- CARBON MONOXIDE ALARMS TO BE INTERCONNECTED PER CRC R315.7 AND HARD-WIRED WITH BATTERY BACK-UP PER CRC R315.5
- 4" Ø DRYER VENT WITH MAXIMUM 14 FOOT COMBINED HORIZONTAL AND VERTICAL LENGTH WITH TWO 90 DEGREE ELBOWS.
- A MECHANICAL EXHAUST VENTILATION SYSTEM, SUPPLY VENTILATION SYSTEM, OR COMBINATION THEREOF SHALL BE INSTALLED FOR EACH DWELLING UNIT TO PROVIDE WHOLE-BUILDING VENTILATION WITH OUTDOOR AIR IN COMPLIANCE WITH ASHRAE STANDARD 62.2 AS ADOPTED BY THE CALIFORNIA ENERGY COMMISSION.
- AN INTERMITTENTLY OR CONTINUOUSLY OPERATING LOCAL MECHANICAL EXHAUST VENTILATION SYSTEM SHALL BE INSTALLED IN EACH BATHROOM WITH A BATHTUB, SHOWER, OR SIMILAR MOISTURE SOURCE AND IN EACH KITCHEN IN COMPLIANCE WITH ASHRAE STANDARD 62.2 AS ADOPTED BY THE CALIFORNIA ENERGY COMMISSION. INTERMITTENT LOCAL EXHAUST VENTILATION AIRFLOW RATES SHALL BE 50 CFM IN BATHROOMS AND 100 CFM IN KITCHENS. CONTINUOUS LOCAL EXHAUST VENTILATION AIRFLOW RATES SHALL BE 20 CFM IN BATHROOMS AND 5 AIR CHANGES PER HOUR IN KITCHENS BASED ON KITCHEN VOLUME.
- WATER HEATER OR FURNACE SHALL BE A DIRECT-VENT APPLIANCE
- LISTED GASKETED SELF CLOSING DOOR REQUIRED FOR GAS FAU

**LIGHTING PLAN NOTES**

- ALL LUMINAIRES SHALL BE HIGH-EFFICACY IN ACCORDANCE WITH CBEE'S TABLE 150.0-A  
1.1. LUMINAIRES MUST HAVE A LABEL CERTIFIED FOR AIRTIGHT CONSTRUCTION
- ALL LED LUMINAIRES AND LAMPS SHALL BE MARKED "JA8-2016" AND LISTED IN THE CALIFORNIA ENERGY COMMISSION DATABASE AT [HTTPS://CACERTAPPLIANCES.ENERGY.CA.GOV/PAGES/APPLIANCESEARCH.ASPX](https://cacertappliances.energy.ca.gov/pages/appliancesearch.aspx)
- ALL RECESSED DOWNLIGHT AND ENCLOSED LUMINAIRES SHALL BE MARKED "JA8-2016-E" AND LISTED IN THE CALIFORNIA ENERGY COMMISSION DATABASE AT [HTTPS://CACERTAPPLIANCES.ENERGY.CA.GOV/PAGES/APPLIANCESEARCH.ASPX](https://cacertappliances.energy.ca.gov/pages/appliancesearch.aspx)
- RECESSED DOWNLIGHT LUMINAIRES IN CEILINGS SHALL BE IC LISTED, AIR-TIGHT LABELED, AND NOT EQUIPPED WITH A STANDARD SCREW-BASED SHELL LAMP HOLDER. ES 150.0(K)
- BATHROOMS, GARAGES, LAUNDRY ROOMS, AND UTILITY ROOMS: AT LEAST ONE LUMINAIRE IN EACH SPACE SHALL BE CONTROLLED BY A VACANCY SENSOR
- ALL LUMINAIRES REQUIRING "JA8-2016" OR "JA8-2016-E" MARKING SHALL BE CONTROLLED BY A DIMMER OR VACANCY SENSOR  
EXCEPTION: CLOSETS LESS THAN 70 S.F. & HALLWAYS
- OUTDOOR LIGHTING PERMANENTLY MOUNTED TO BUILDINGS SHALL BE CONTROLLED BY ONE OF THE FOLLOWING:
  - PHOTOCONTROL AND MOTION SENSOR
  - PHOTOCONTROL AND AUTOMATIC TIME-SWITCH CONTROL
  - ASTRONOMICAL TIME CLOCK
  - ENERGY MANAGEMENT CONTROL SYSTEM PER CBEE'S 150.0(K)3AIIIC

**SOLAR READY KEY NOTES**

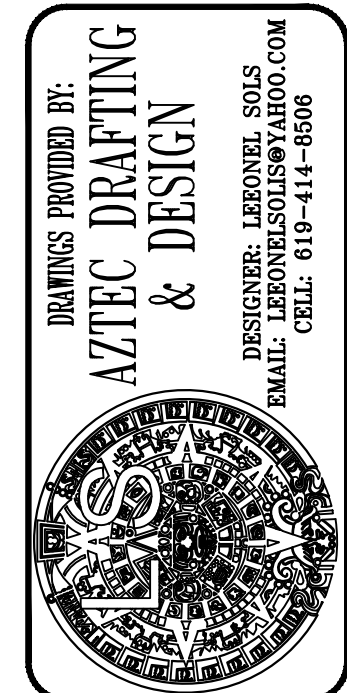
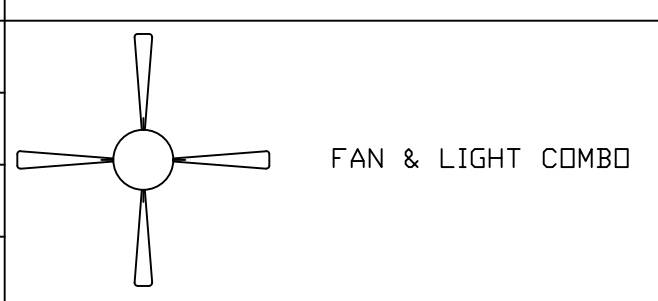
- THE MAIN ELECTRICAL SERVICE PANEL SHALL NOT BE OF A TYPE WITH A CENTER-FED MAIN CIRCUIT BREAKER AND SHALL INCLUDE RESERVED SPACE ALLOWING FOR INSTALLATION OF DOUBLE-POLE CIRCUIT BREAKERS FOR A FUTURE SOLAR PHOTOVOLTAIC SYSTEM. SUCH RESERVED SPACE SHALL BE POSITIONED AT THE OPPOSITE (LOAD) END FROM THE INPUT FEEDER OR MAIN CIRCUIT BREAKER LOCATION. THE RESERVED SPACE SHALL BE PERMANENTLY AND VISIBLY MARKED AS "FOR FUTURE SOLAR PHOTOVOLTAIC"
- APPROVED MINIMUM 4-INCH SQUARE ELECTRICAL JUNCTION BOX LOCATED WITHIN 72 INCHES HORIZONTALLY AND 12 INCHES VERTICAL OF MAIN ELECTRICAL SERVICE PANEL
- MINIMUM 1 INCH DIAMETER LISTED ELECTRICAL METALLIC RACEWAY ORIGINATING AT READILY ACCESSIBLE ATTIC LOCATION WITH PROXIMITY TO SOLAR ZONE AREA AND TERMINATING AT THE REQUIRED ELECTRICAL JUNCTION BOX
- MINIMUM 1 INCH DIAMETER LISTED ELECTRICAL METALLIC RACEWAY ORIGINATING AT THE REQUIRED ELECTRICAL JUNCTION BOX AND TERMINATING AT THE MAIN ELECTRICAL SERVICE PANEL
- ELECTRICAL JUNCTION BOX AND SEGMENT OF METALLIC RACEWAY IN THE ATTIC SHALL BE PERMANENTLY AND VISIBLY MARKED AS "FOR FUTURE SOLAR PHOTOVOLTAIC"



ELECTRICAL LEGEND	
⊕	DUPLEX OUTLET
⊕	HIGH EFFICACY RECESSED LIGHT
⊕	WALL SWITCH
⊕	GARBAGE DISPOSAL
⊕ <sub>G.D.</sub>	GARBAGE DISPOSAL SWITCH
⊕ <sub>V.S.</sub>	VACANCY SENSOR
⊕	4" DIA. DRYER VENT
⊕ <sub>S.D.</sub>	SMOKE DETECTOR
⊕ <sub>C.D.</sub>	CARBON MONOXIDE ALARM
⊕	FAN AND LIGHT COMBINATION
⊕	HIGH EFFICACY LIGHT FIXTURE

**WALL LEGEND**

- 2X4 WALL
- 2X6 WALL



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**ELECTRICAL PLANS**

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**VENTILATION REQUIRED**

NET FREE CROSS VENTILATION AREA =  $\frac{300}{100}$   
 VENT AREA REQ'D =  $494 \text{ ft}^2 / 300 = 1.66 \text{ ft}^2 \times 144 = 237 \text{ in}^2$

**FIRE RATED GABLE VENTS**

NFVA =  $115 \text{ in}^2$  QTY = 2 VENTS VENT AREA PROVIDED =  $3 \times 115 \text{ in}^2 = 230 \text{ in}^2$

**4" DIA VENTS W/ SCREEN @ 48" O.C.**

NFVA:  $23 \text{ in}^2$  QTY = 10 VENTS VENT AREA PROVIDED =  $10 \times 23 \text{ in}^2 = 230 \text{ in}^2$

**FIRE RATED DORMER VENTS**

NFVA =  $90 \text{ in}^2$  QTY = 2 VENTS VENT AREA PROVIDED =  $2 \times 90 \text{ in}^2 = 180 \text{ in}^2$

**TOTAL VENT AREA PROVIDED**

$(213 \text{ in}^2) + (230 \text{ in}^2) + (180 \text{ in}^2) = 640 \text{ in}^2 > 237 \text{ in}^2$

**MECHANICAL NOTE:**

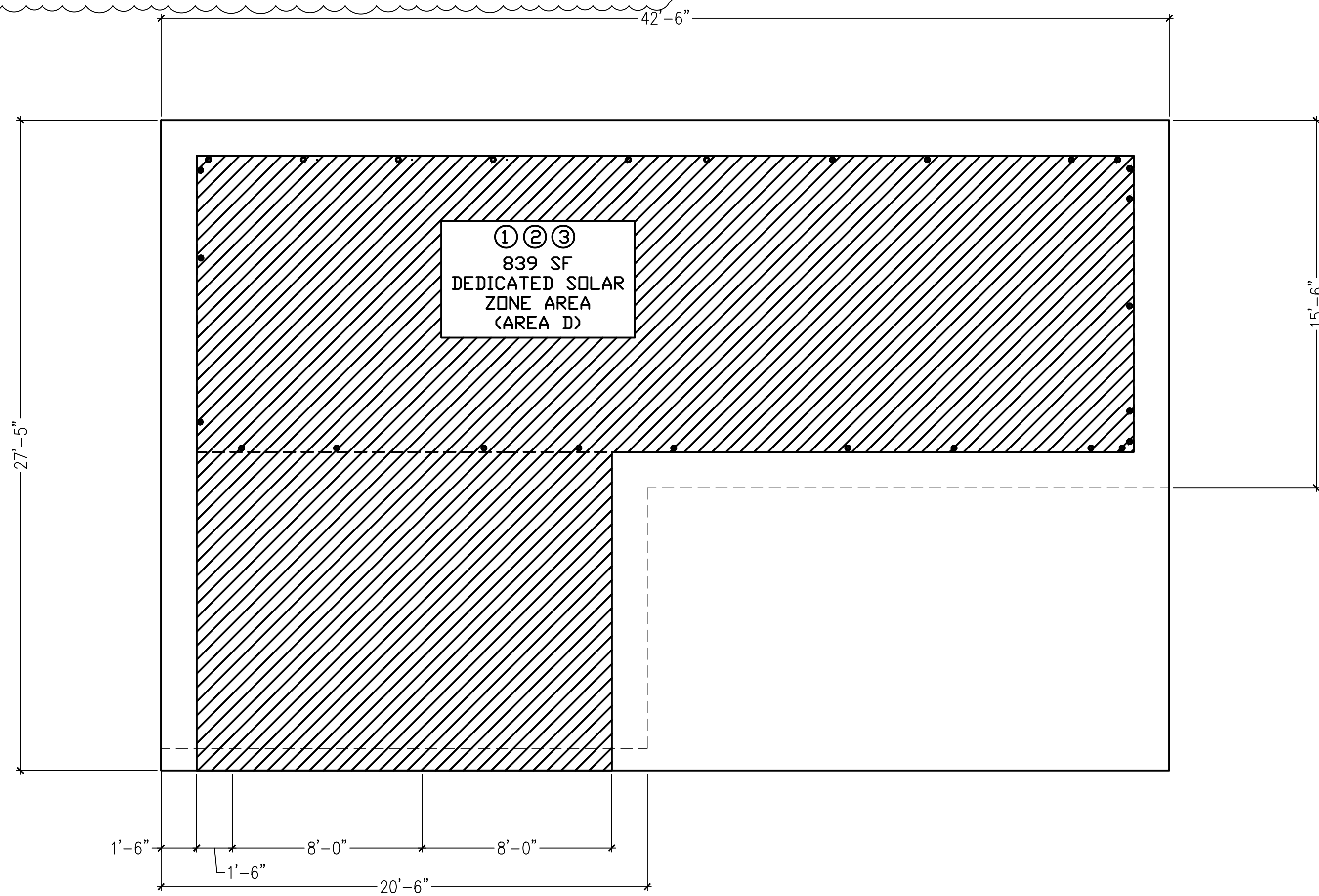
- PASSAGEWAY TO THE MECHANICAL EQUIPMENT IN THE ATTIC SHALL BE UNOBSTRUCTED, HAVE CONTINUOUS SOLID FLOORING NOT LESS THAN 24 INCHES WIDE, AND BE NOT MORE THAN 20 FEET IN LENGTH FROM THE ACCESS OPENING TO THE APPLIANCE. - CMC SECTION 304.4.1.

**LEGEND**

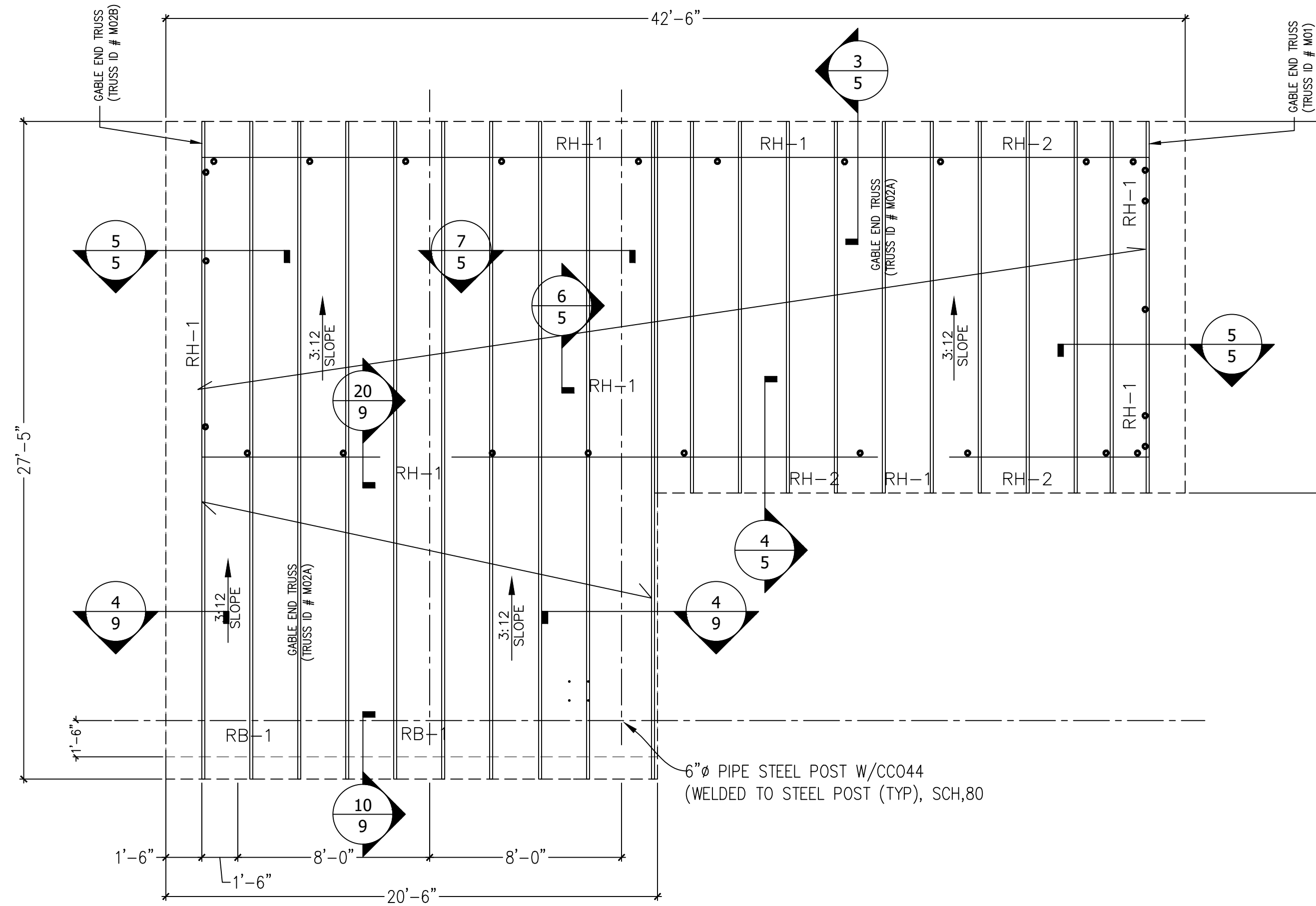
- RH-1 ROOF HEADER - 4" X 6", DF-L #1 AND BETTER
- RH-2 ROOF HEADER - 4" X 8", DF-L #1 AND BETTER
- RB-1 ROOF BEAM - 3.5" X 11.875", PARALLAM PSL 2.0E
- 4 SHEAR PANEL SYMBOL/WIDTH PER SHEAR WALL SCHEDULE ON SHEET 9
- 2-2"x4" OR 4" X 4" POST, WITH EPC44 OR PC44, UNLESS OTHERWISE NOTED
- RF-1 ROOF RAFTER - 4"x10", PF-LH&BETTER @ 2' O.C.

**SOLAR READY KEY NOTES**

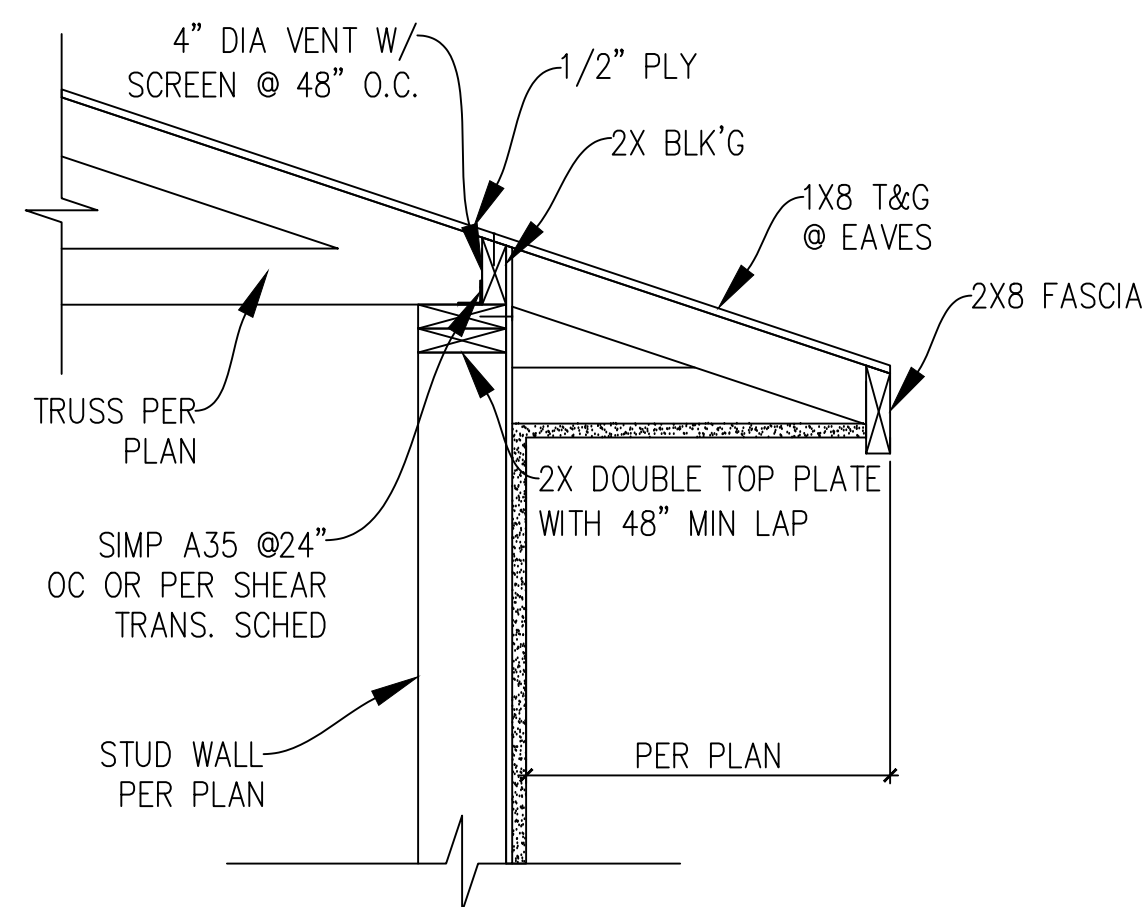
- MIN 250 S.F. SOLAR ZONE AREA
- DEDICATED SOLAR ZONE AREA LOCATED BETWEEN 110 AND 270 DEGREES OF TRUE NORTH - USE AREA A OR B AS NEEDED.
- NO OBSTRUCTIONS - INCLUDING VENTS, CHIMNEYS, SKYLIGHTS, ARCHITECTURAL FEATURES, ROOF-MOUNTED EQUIPMENT - LOCATED WITHIN SOLAR ZONE.
- 3" MIN FIRE FIGHTER ACCESS
- 1'-6" SMOKE VENTILATION SETBACK AT RIDGES



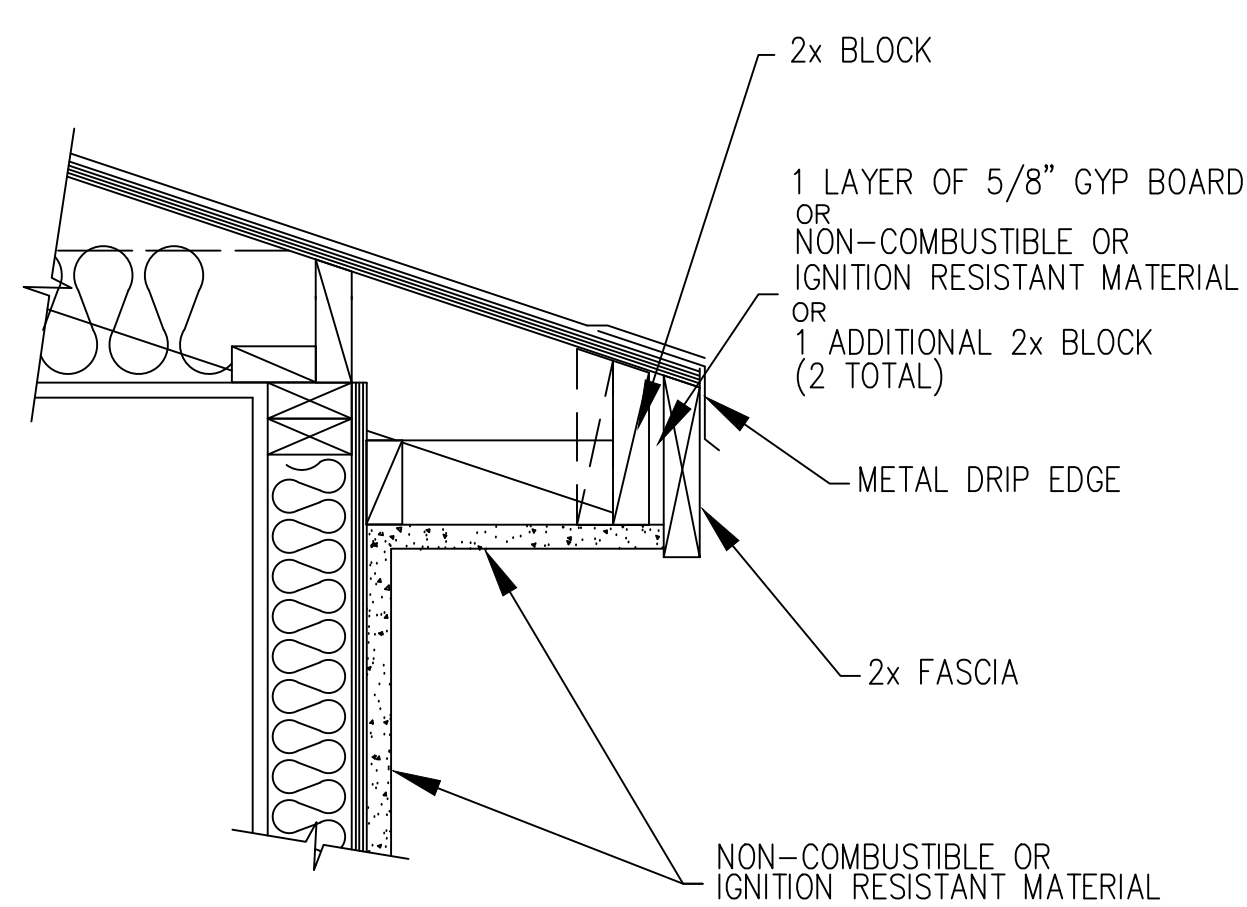
**1 ROOF PLAN**  
1/4"=1'-0"



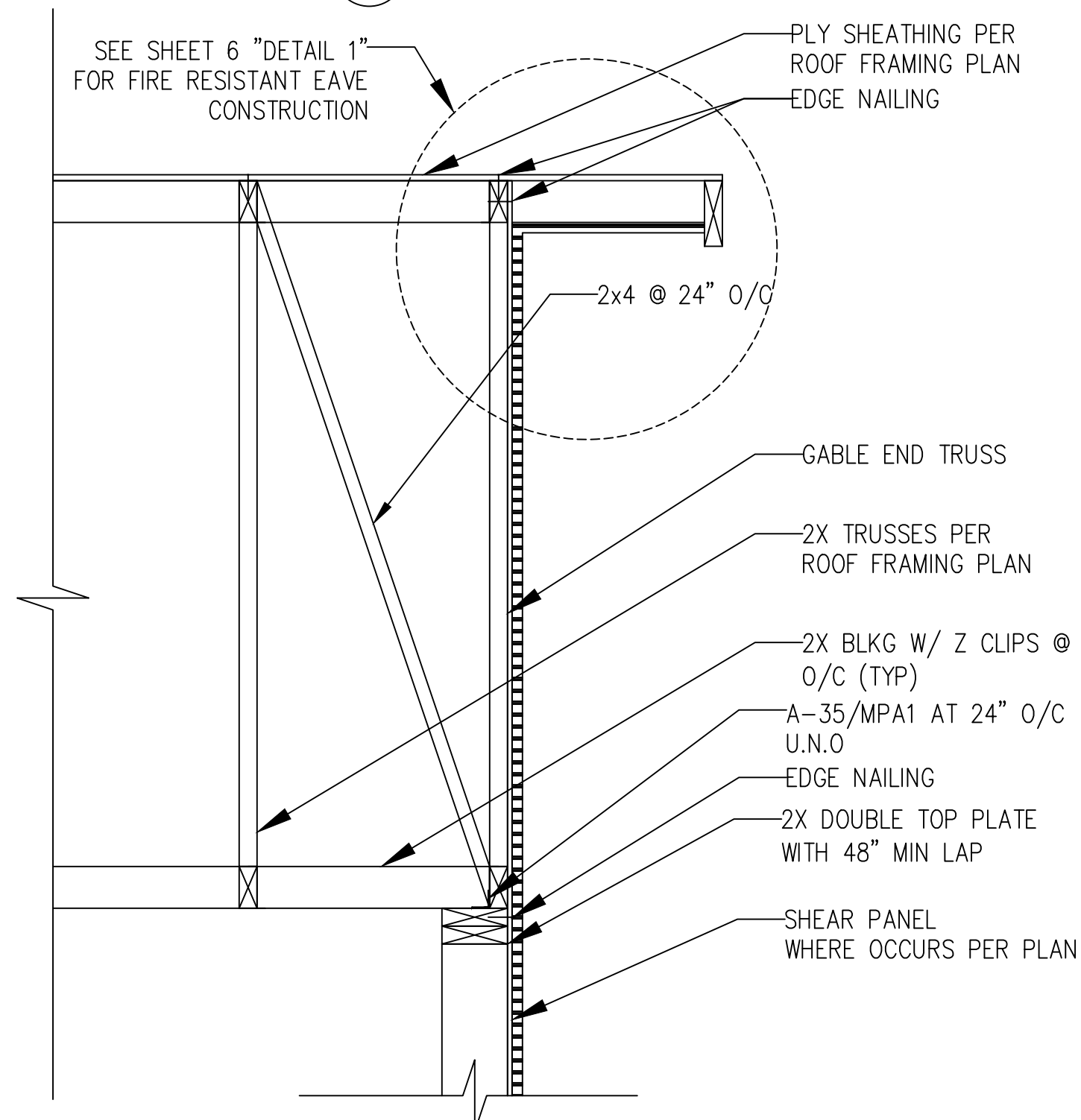
**2 ROOF FRAMING PLAN & TRUSS LAYOUT**  
1/4"=1'-0"



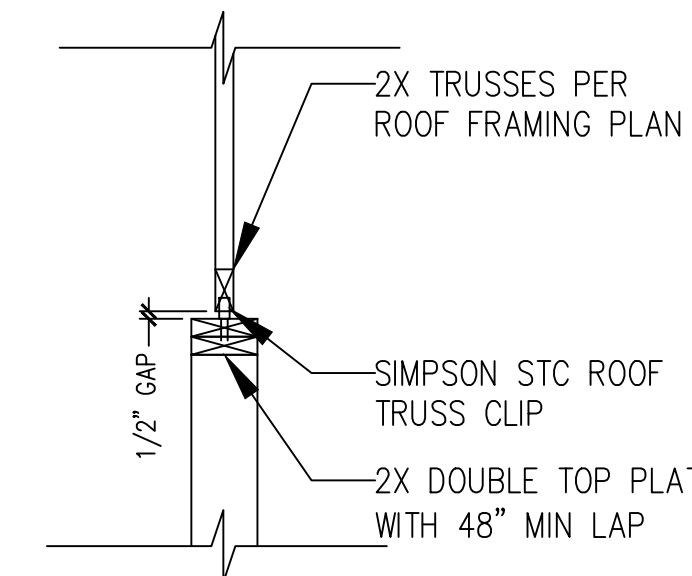
**3 SHEAR TRANSFER DETAIL**  
1"=1'-0"



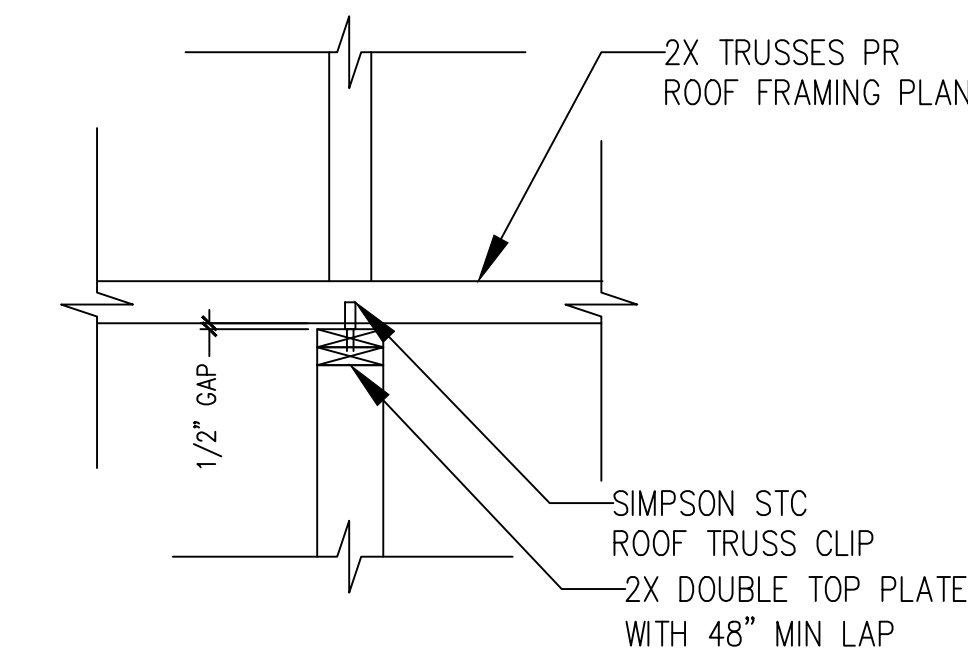
**4 SHEAR TRANSFER DETAIL**  
1"=1'-0"



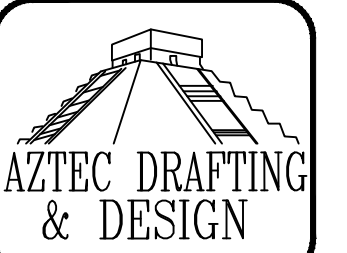
**5 SHEAR TRANSFER DETAIL**  
1"=1'-0"



**6 TRUSS PERPENDICULAR TO FRAMING MEMBER**  
1"=1'-0"



**7 TRUSS PARALLEL TO FRAMING MEMBER**  
1"=1'-0"



DRAWINGS PROVIDED BY:  
**AZTEC DRAFTING & DESIGN**  
 DESIGNER: LERONEL SOLIS  
 EMAIL: LERONEL@AZTECDD.COM  
 CELL: 619-414-8506



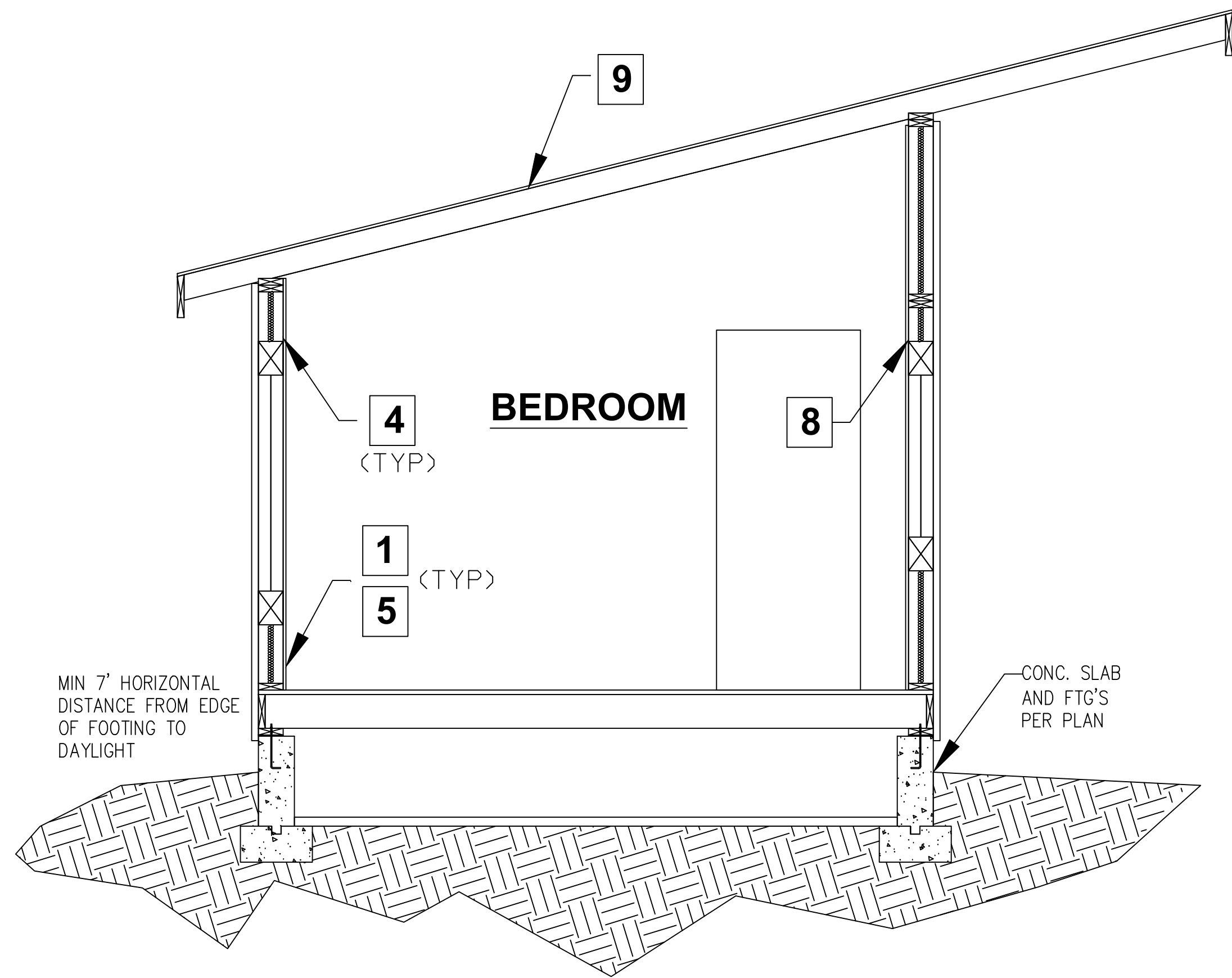
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**ROOF PLAN & DETAILS**  
**TRUSS LAYOUT & DETAILS**

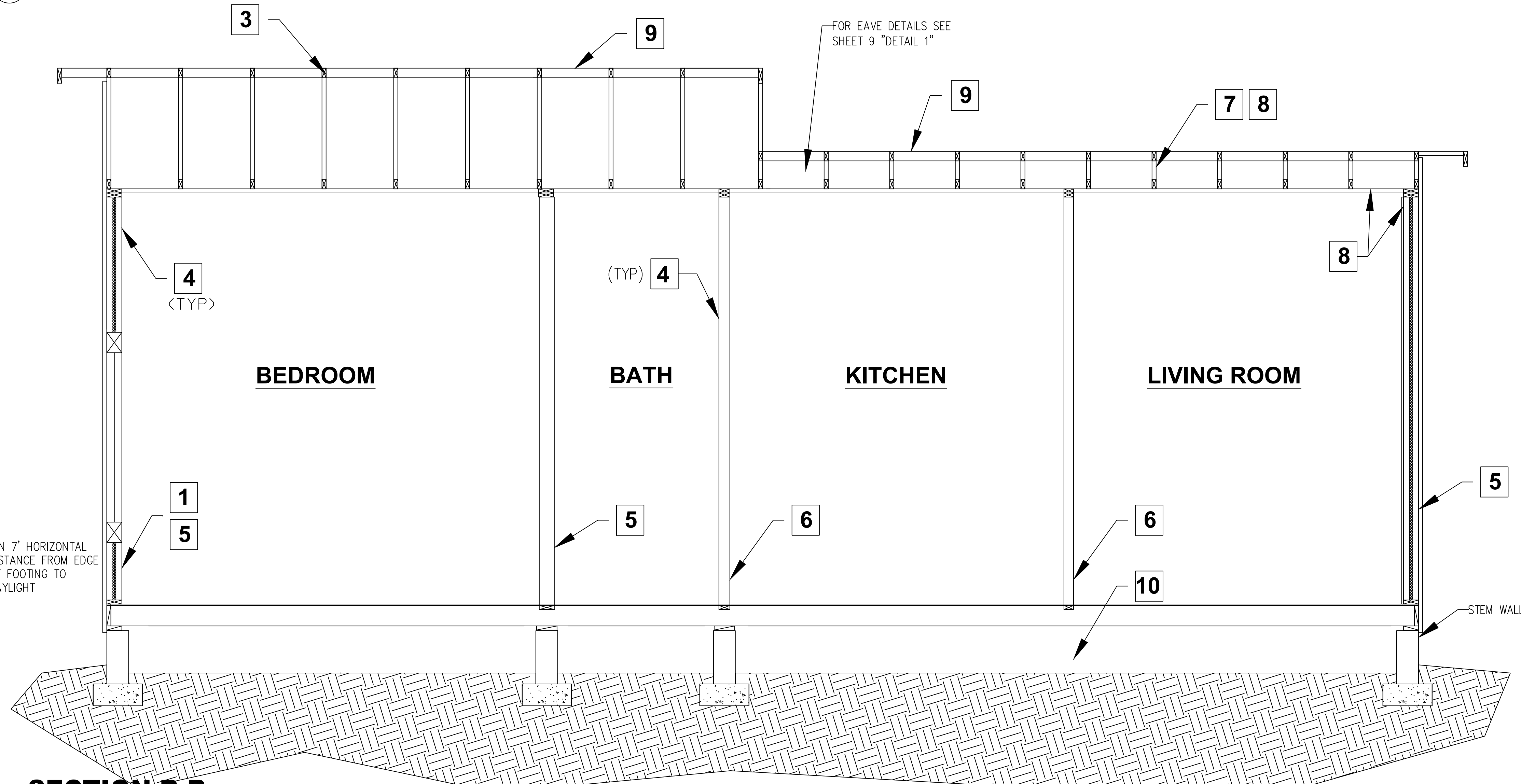
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**SECTION A-A**

5 1/2"=1'-0"



**SECTION B-B**

6 1/2"=1'-0"

**SECTION KEY NOTES**

1. WALL INSULATION: R13 INSULATION
2. CEILING INSULATION: R30 INSULATION
3. ROOF (TOP CHORD) INSULATION: \_\_\_\_\_
4. INTERIOR FINISH: 1/2" GYPSUM BOARD
5. EXTERIOR WALL/PLUMBING WALL: 2X6 STUD WALL
6. INTERIOR WALL: 2X4 STUD WALL
7. RADIANT BARRIER IS REQUIRED
8. CLIMATE ZONE 14 PROJECT ( Y or N) if yes, see below:  
A CLASS I OR II VAPOR RETARDER SHALL BE INSTALLED ON THE CONDITIONED SPACE SIDE OF ALL INSULATION IN ALL EXTERIOR WALLS AND VENTED CRAWLSPACE
9. MANUFACTURED TRUSSES
10. FLOOR CRAWL MINIMUM 18" HEIGHT: R-19

**ENERGY CONSERVATION**

1. KITCHENS REQUIRE EXHAUST FANS WITH MINIMUM 100 CFM DUCTED TO THE EXTERIOR. DETAIL COMPLIANCE BY INCLUDING A COMPLYING EXHAUST FAN OR A DUCTED RANGE HOOD TO THE EXTERIOR.
2. BATHROOMS REQUIRE EXHAUST FANS (MINIMUM 50 CFM) TO BE DUCTED TO THE EXTERIOR. A BATHROOM IS DEFINED "AS A ROOM WITH A BATHTUB, SHOWER, OR SPA OR SOME SIMILAR SOURCE OF MOISTURE."
3. RESIDENTIAL BATHROOM EXHAUST FANS SHALL BE ENERGY STAR RATED AND SHALL BE CONTROL BY HUMIDISTAT CAPABLE OF AN ADJUSTMENT BETWEEN 50 AND 80% HUMIDITY. CALGREEN 4.506.1.



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**SECTIONS**

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**FLOOR PLAN NOTES**

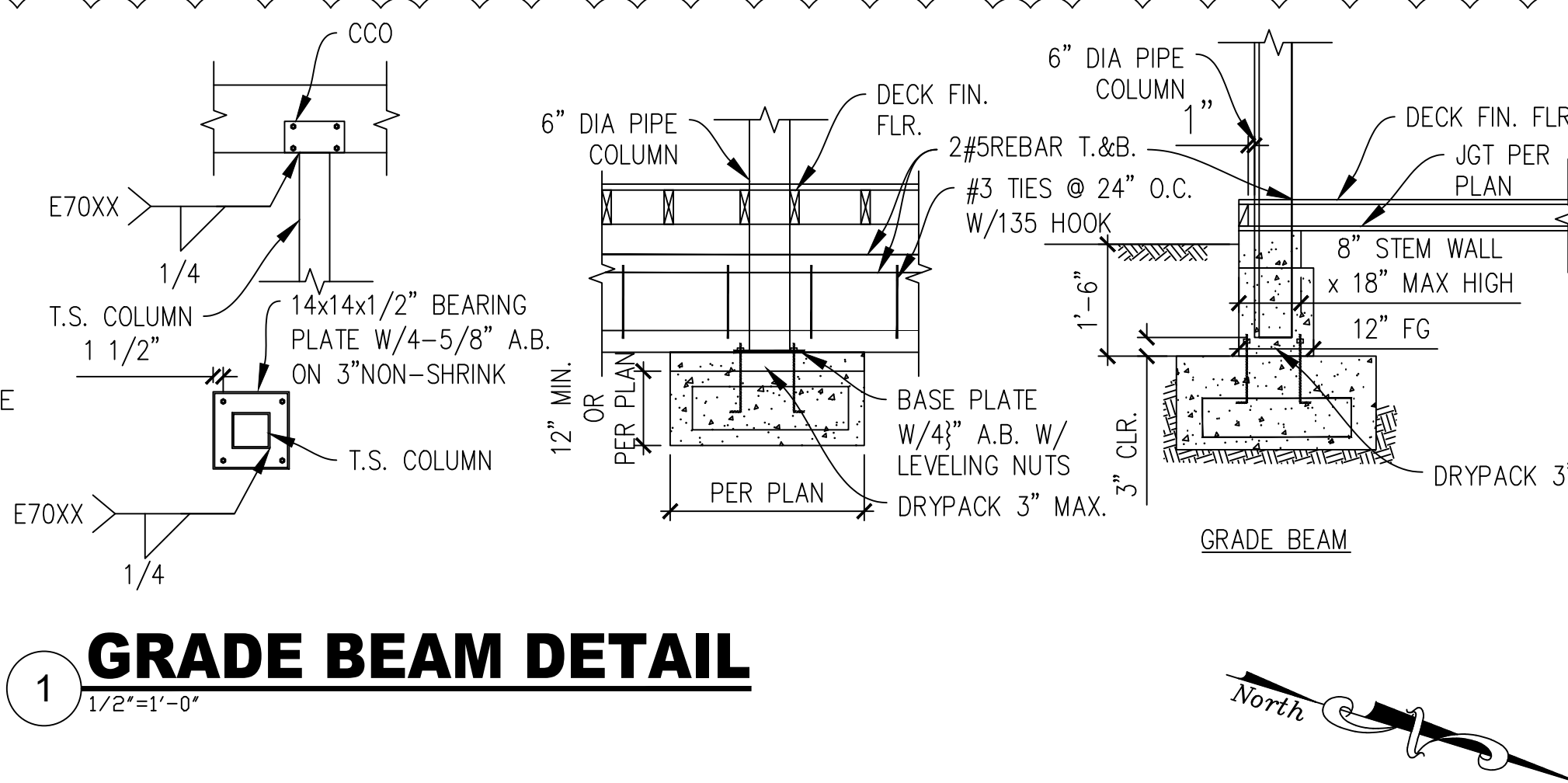
- EXTERIOR WALLS WITHIN 3 FEET OF PROPERTY LINE (SPRINKLERS) OR 5 FEET OF PROPERTY LINE (WITHOUT SPRINKLERS) REQUIRE 1-HOUR FIRE RATING FOR EXPOSURE TO BOTH SIDES
- PROJECTIONS:
  - PROHIBITED WITHIN 2 FEET OF PROPERTY LINE
  - 1-HOUR FIRE RATING ON THE UNDERSIDE WITHIN 3FT OF PROPERTY LINE (SPRINKLERS)
  - 1-HOUR FIRE RATING ON THE UNDERSIDE WITHIN 5FT OF PROPERTY LINE (WITHOUT SPRINKLERS)
- OPENINGS:
  - PROHIBITED WITHIN 3FT OF PROPERTY LINE
  - MAXIMUM 25% OF WALL AREA WITHIN 5 FEET OF PROPERTY LINE (WITHOUT SPRINKLERS)
- PENETRATIONS:
  - 1-HOUR FIRE-RATED PENETRATIONS OF WALLS WITHIN 3FT OF PROPERTY LINE (SPRINKLERS)
  - 1-HOUR FIRE-RATED PENETRATIONS OF WALLS WITHIN 5FT OF PROPERTY LINE (WITHOUT SPRINKLERS)
- CONCRETE LANDING WITH MIN 3/8" DEPTH AND A MAXIMUM OF 1-1/2" LOWER THAN TOP OF DOOR THRESHOLD

**LEGEND**

- 2-2"x4" OR 4" X 4" POST, WITH EPC44 OR PC44, UNLESS OTHERWISE NOTED
- ISOLATED FOOTING - 24" x 24" x 12" THK. CONC. WITH 3-#4 BARS AT EQUAL SPACES (TOP AND BOTTOM)
- 6" DIA. PIPE POST, SCH. 80, WITH WELDED BASE PLATE 1/2" THK. x 12" SQ., SA-36 WITH 4-5/8" DIA. ANCHOR BOLTS x 12" LONG EMBED ENTIRE BASE PLATE 4" BELOW TOP OF CONCRETE SURFACE
- SHEAR PANEL SYMBOL/WIDTH PER SHEAR WALL SCHEDULE ON SHEET 9
- FJ-1 FLOOR JOIST - 2"x10" AT 16" O.C. DF-L 1 AND BETTER
- DJ-1 DECK JOIST - 2"x10" AT 16" O.C DF-L#1 AND BETTER.
- 5/8" A.B.

**GRADE BEAM DETAIL**

1/2"=1'-0"

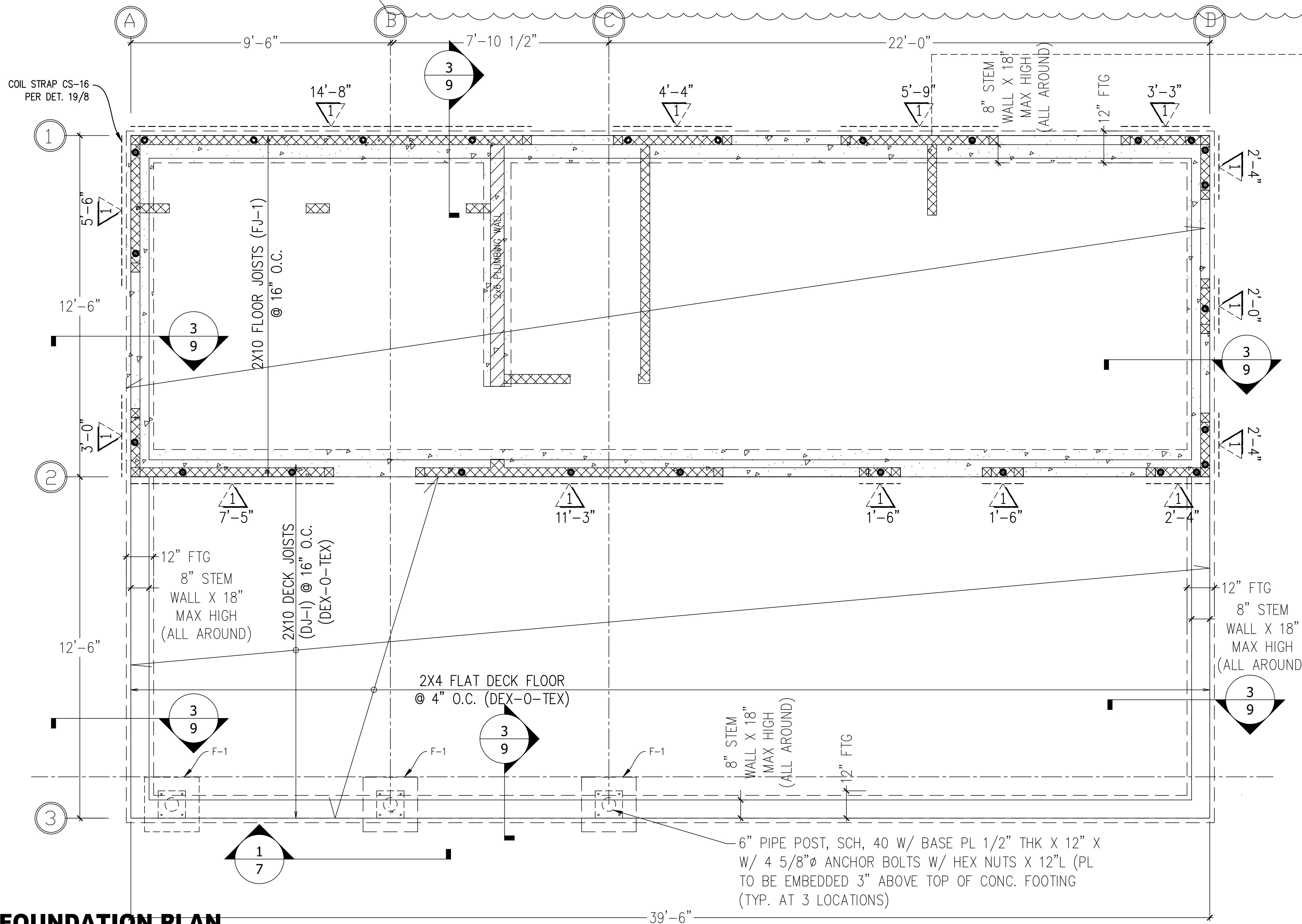


**FOUNDATION NOTES**

- FOUNDATION DESIGN IS BASED ON 1500 PSI
- IF THE BUILDING INSPECTOR SUSPECTS FILL. EXPANSIVE SOILS OR ANY OTHER GEOLOGICAL INSTABILITY BASED UPON OBSERVATION OF THE FOUNDATION EXCAVATION, A SOILS OR GEOLOGY REPORT, AND SUBMITTAL OF PLANS TO PLAN CHECK TO VERIFY THAT THE REPORT RECOMMENDATIONS HAVE BEEN INCORPORATED, MAY BE REQUIRED.
- ALL HOLDDOWNS TO BE TIED IN PLACE PRIOR TO CALLING FOR FOUNDATION INSPECTION
- NO PLUMBING PIPES OVER ON INCH DIAMETER TO PENETRATE SHEAR WALL PANELS.
- ALL HOLDDOWNS ON 4X4 POST OR 2 2X STUDS U.O.N.
- CONCRETE SLABS TO BE 4" THICK (2500 PSI @28 DAYS) WITH #3 @ 18" O.C. EW IN MIDDLE OF SLAB PROVIDE 10 MIL VISQUEEN UNDER SLAB.
- WOOD TO BE MINIMUM OF 8" ABOVE FINISHED GRADE.
- ANCHOR BOLTS TO BE 5/8" DIA X 12" LONG (WITH 3" X 3" X 1/4" WASHERS)
  - MINIMUM 1 INCH EMBEDMENT INTO CONCRETE OR MASONRY.
  - MINIMUM TWO BOLTS PER SILL PLATE SECTION WITH ONE BOLT LOCATED WITHIN 12" OF EACH PLATE END & MINIMUM SEVEN BOLT DIAMETERS FROM EACH END OF EACH SECTION.
  - BOLTS TO BE LOCATED IN MIDDLE THIRD OF THE SILL PLATE WIDTH
  - ANCHOR BOLT SPACING @ 48" O.C. UNLESS NOTED OTHERWISE IN SHEAR PANEL SCHEDULE BOLTS SHALL BE INSTALLED WITH PROPERLY TIGHTENED NUTS A WASHERS.
- FASTENERS INCLUDING NUTS AND WASHERS FOR PRESERVATIVE-TREATED WOOD (IN ALL APPLICATIONS) AND FIRE RETARDANT-TREATED WOOD SHALL BE NOT DIPPED ZINC-COATED GALVANIZED STEEL STAINLESS STEEL SILICON BRONZE OR COPPER THE COATING WEIGHTS FOR ZINC-COATED STEEL WITH COATING WEIGHTS IN ACCORDANCE WITH ASTM B (95 CLASS 55 MINIMUM FASTENERS OTHER THAN NAILS, WOOD SCREWS AND LAG SCREWS MAY BE MECHANICALLY DEPOSITED ZINC IN ACCORDANCE WITH ASTM B -75 CLASS 55.
- IF A SHEAR WALL OCCURS ON BOTH SIDES OF A FOOTING THEN THE ANCHOR BOLT SPACING IS TO BE REDUCED BY 1/2.
- FOR INTERIOR NON-BEARING WALLS USE RAMSET POWER DRIVEN PINS #2330, 5/8" X 3" @ 32" O.C. PER ICB#147
- A CERTIFICATE OF SATISFACTORY COMPLETION OF WORK REQUIRING SPECIAL INSPECTION MUST BE COMPLETED AND SUBMITTED TO THE INSPECTION DIVISION.
- ALL SURFACE WATER TO DRAIN AWAY FROM BUILDING AND PROPERTY LINE TO ALLEY OR STREET.
- VERIFY ALL UTILITY LOCATIONS (EXISTING & NEW) PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR TO COMPLY WITH ALL OSHA REQUIREMENTS.
- ANCHOR BOLTS AND SILLS. FOUNDATION PLATES OR SILLS SHALL BE BOLTED OR ANCHORED TO THE FOUNDATION OR FOUNDATION WALL PER THE FOLLOWING
  - MINIMUM 1/2-INCH-DIAMETER STEEL BOLTS
  - BOLTS EMBEDDED AT LEAST 7 INCHES INTO CONCRETE OR MASONRY
  - BOLTS SPACED MAXIMUM 6 FEET ON CENTER
  - MINIMUM TWO BOLTS PER PLATE/SILL PIECE WITH ONE BOLT LOCATED
    - MAXIMUM 12 INCHES AND MINIMUM 7 BOLT DIAMETERS FROM EACH END OF EACH SILL PLATE/PIECE
    - MINIMUM 3-INCH BY 3-INCH BY 0.299-INCH STEEL PLATE WASHER BETWEEN SILL AND NUT ON EACH BOLT

**REINFORCING STEEL**

- BAR REINFORCEMENT SHALL BE ASTM A675. GRADE 60 FOR #5 AND LARGER AND GRADE 40 FOR EA AND SMALLER
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A183 AND SHALL BE LAPPED 12-INCHES MINIMUM
- MINIMUM LAP SPLICES OF REINFORCING BARS SHALL BE AS FOLLOW:
  - CONCRETE CLASS B AS DEFINED IN ACI 313.89
  - MASONRY 40 BAR DIAMETERS OR 18" MINIMUM
- VERTICAL BARS IN CONCRETE WALLS SHALL BE ACCURATELY POSITIONED AT THE CENTER OF THE WALL UNLESS NOTED OTHERWISE.
- REINFORCING DETAILING, BENDING, AND PLACING SHALL BE IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL INSTITUTE MANUAL OF STANDARD PRACTICE LATEST EDITION
- REINFORCING STEEL SHALL BE PROVIDED WITH THE FOLLOWING AMOUNTS OF COVER FOR CAST IN PLACE CONCRETE
  - CONCRETE DEPOSITED AGAINST EARTH 3"
  - CONCRETE SURFACE (FORMED) EXPOSED TO EARTH OR WEATHER #5 BAR & SMALLER 1-1/2"
- ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS, AND INSERTS SHALL BE WELL SECURED IN POSITION WITH WIRE POSITIONERS BEFORE PLACING CONCRETE OR GROUT
- DOWELS BETWEEN FOOTINGS AND WALLS SHALL BE THE SAME GRADE, SIZE, AND SPACING AS VERTICAL WALL REINFORCING
- FURNISH #3 SPACER TIES AT APPROXIMATELY 2'-6" O.C. IN ALL SECURE REINFORCING IN PLACE.



**FOUNDATION PLAN**

1/2"=1'-0"



DRAWINGS PROVIDED BY:  
**AZTEC DRAFTING & DESIGN**  
 DESIGNER: LERONEL SOLIS  
 EMAIL: LERONEL@AZTECD.COM  
 CELL: 619-414-8506

**315 S HARBISON DETACH DWELLING UNIT**  
 554-112-07-0 315 S HARBISON AVENUE,  
 NATIONAL CITY, CALIFORNIA 91950

*Seawall*

**FOUNDATION PLAN DETAILS**

REVISION		
0	-	12/08/21
1	-	07/10/22
2	-	09/26/22
3	-	11/01/22

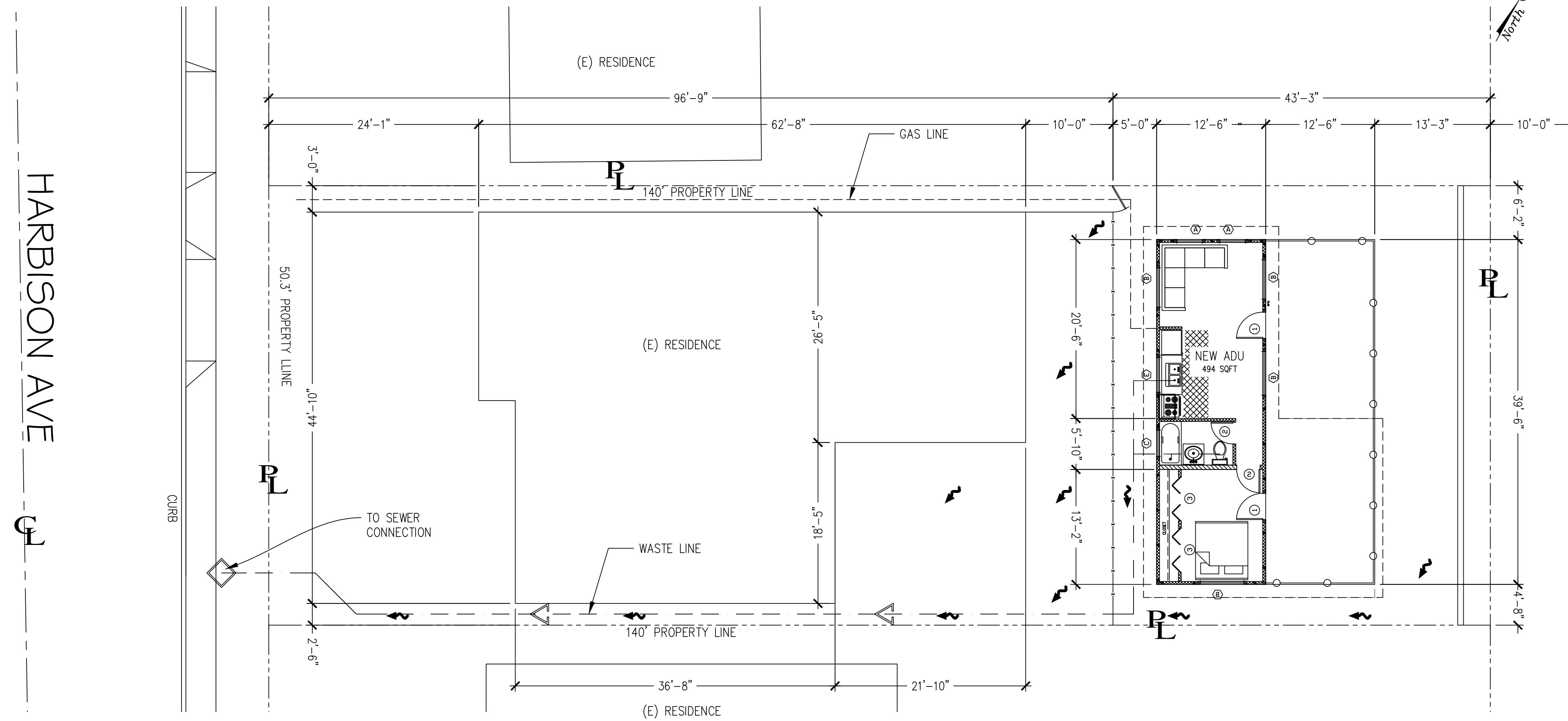
PROJECT NO.  
**P011**  
 SHEET NO.



GENERAL NOTE  
 UTILITIES EXISTING OR TEMPORARY SHALL BE  
 LOCATED AND MARKED BY THE CONTRACTOR TO  
 AVOID DAMAGE OR PERSONAL INJURY.

LEGEND

-  DRAINAGE
-  CENTER LINE OF ROAD
-  PROPERTY LINE
-  WASTE DIRECTION
-  SEWER CONNECTION



1 **LAYOUT PLAN - GAS LINES & SEWAGE WASTE LINES**  
 1/8"=1'-0"



DRAWINGS PROVIDED BY:  
**AZTEC DRAFTING & DESIGN**  
 DESIGNER: LERONEL SOLIS  
 EMAIL: LERONELSO@YAHOO.COM  
 CELL: 619-414-8606



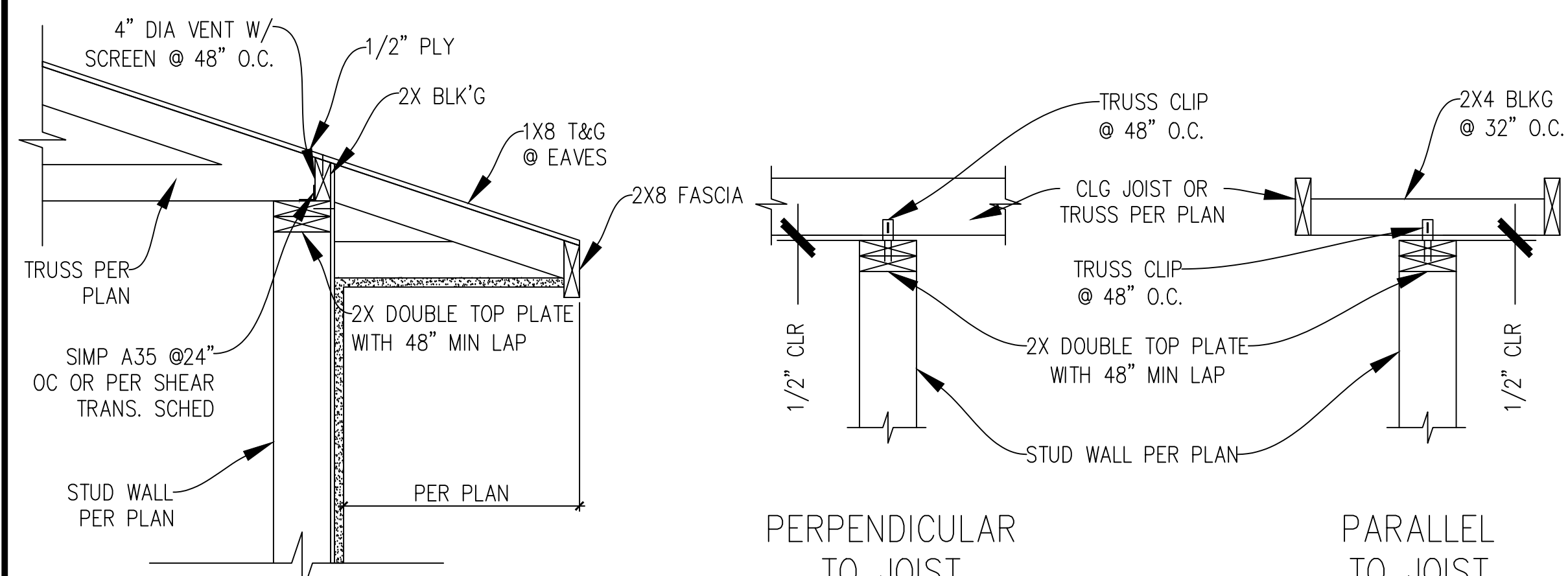
**315 S HARBISON  
 DETACH DWELLING UNIT**  
 554-112-07-0 315 S HARBISON AVENUE,  
 NATIONAL CITY, CALIFORNIA 91950

*Leronel Solis*

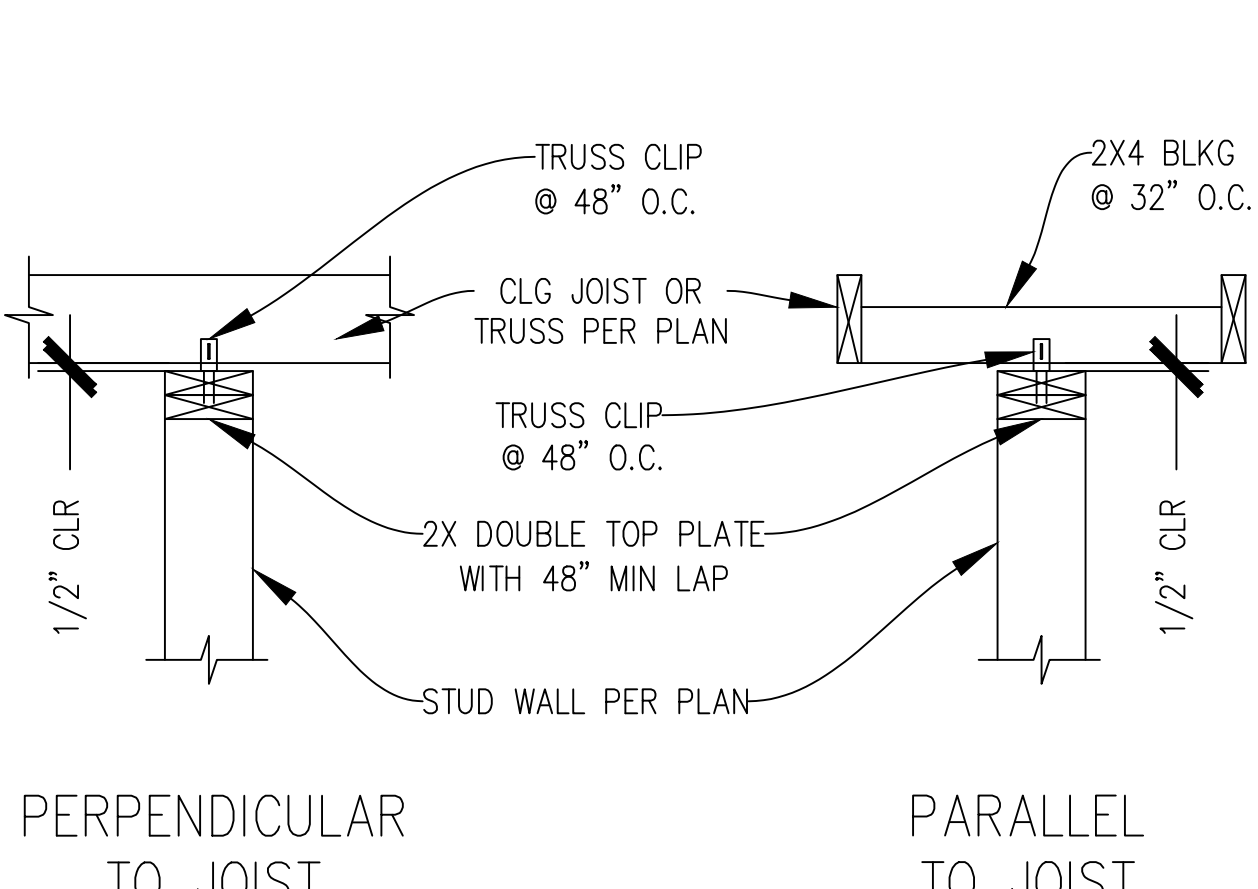
UTILITY LAYOUTS - SEWER

REVISION		
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2	-	09/26/22
3	-	11/01/22

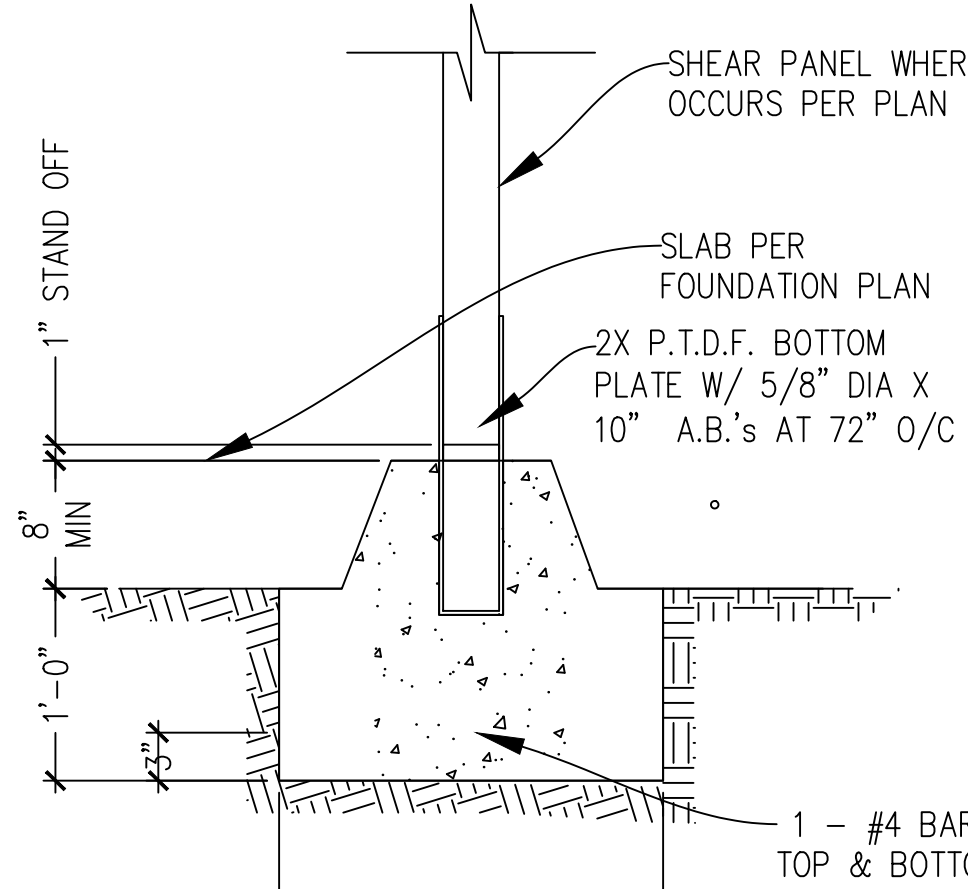
PROJECT NO.  
**P011**  
 SHEET NO.



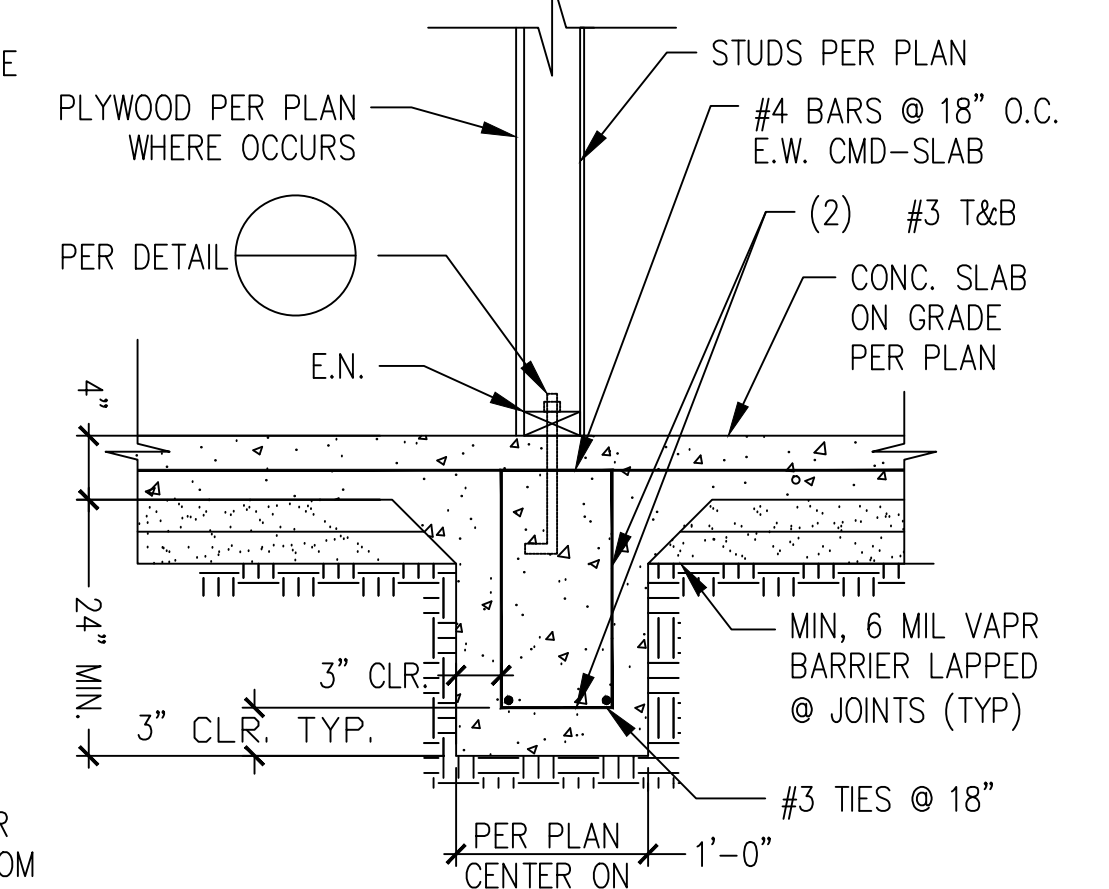
1 SHEAR TRANSFER DETAIL



5 NON-BEARING WALL ANCH.



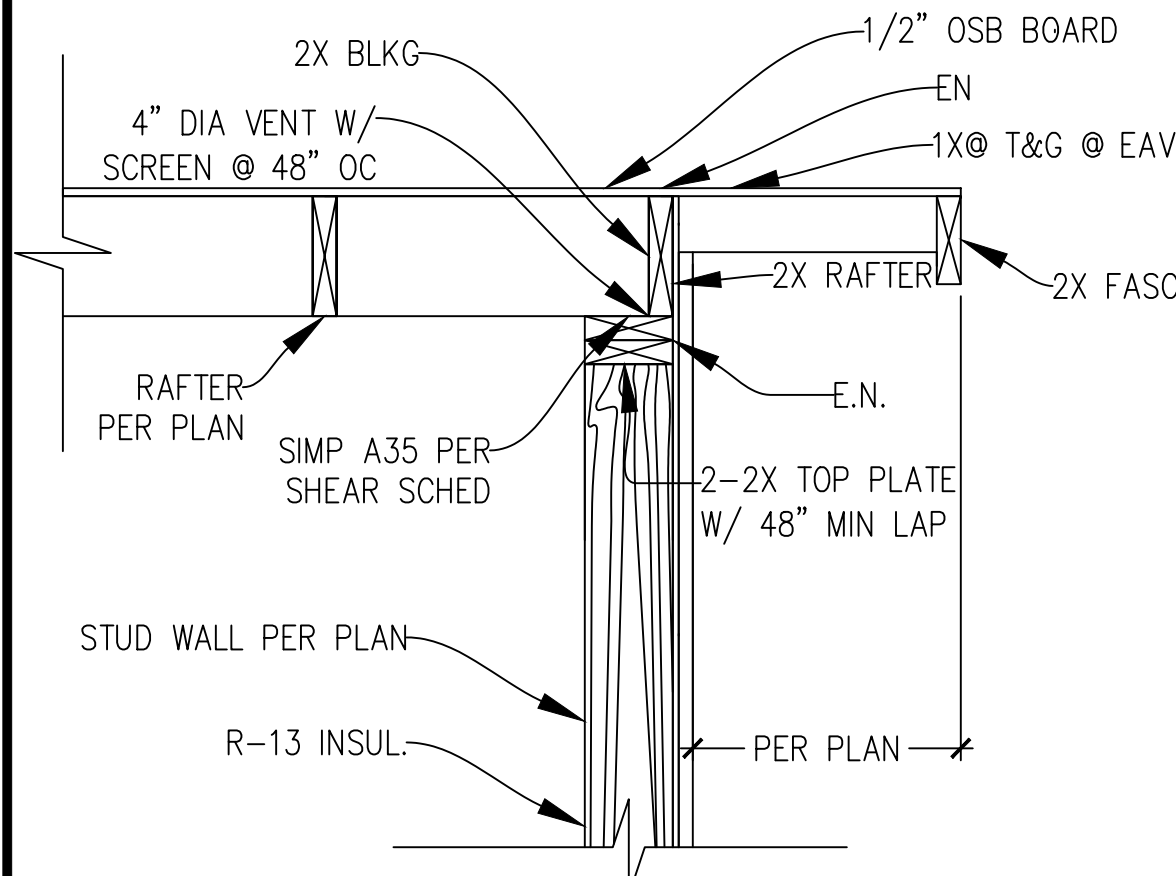
9 POST TO FOOTING



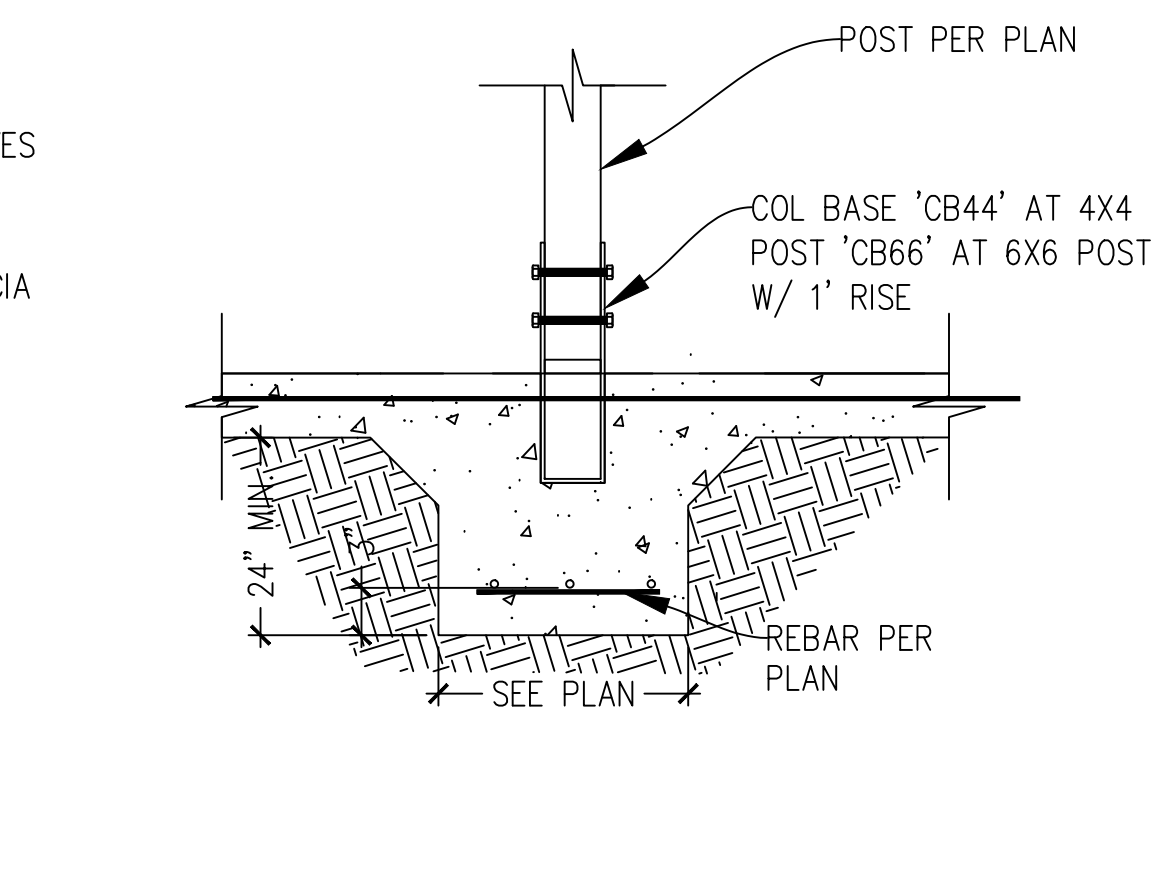
13 INTERIOR FOOTING DETAIL

SHEAR WALL SCHEDULE								
MARKS	SHEATHING MATERIAL (INDEX)	ALLOW LOAD	MIN. FRAMING G W/ (EN)	EDGE NAIL	FIELD NAIL	ANCHOR BOLT	SILL NAILING	SHEAR TRANSFER NAILING
1	7/8" THK STUCCO W/ PORTLAND CEMENTION OVER WOVEN WIRE MESH	180	2x	NAILING: NO. 11 GA 1-1/2" LONG 7/16" HEAD @ 6" O.C.		3/8" A.B. x 12" @ 48" O.C.	16d @ 6" O.C.	ABS @ 24" O.C.
2	3/8" STRUCT 1 (24/0)	250	2x	8d @ 6"	8d @ 12"	3/8" A.B. x 12" @ 48" O.C.	16d @ 6" O.C.	ABS @ 16" O.C.
3	3/8" STRUCT 1 (24/0)	350	3x	8d @ 4"	8d @ 12"	3/8" A.B. x 12" @ 48" O.C.	16d @ 6" O.C.	ABS @ 12" O.C.
4	3/8" STRUCT 1 (24/0)	600	3x	8d @ 3"	8d @ 12"	3/8" A.B. x 12" @ 48" O.C.	16d @ 4" O.C.	ABS @ 8" O.C.
5	3/8" STRUCT 1 (24/0)	732	3x	8d @ 2"	8d @ 12"	3/8" A.B. x 12" @ 48" O.C.	16d @ 8" O.C.	ABS @ 6" O.C.
6	1/2" STRUCT 1 (24/0)	870	3x	10d @ 2"	10d @ 12"	3/8" A.B. x 12" @ 16" O.C.	16d @ 2" O.C.	ABS @ 6" O.C.
7	3/8" STRUCT 1 (24/0)	840	3x	8d @ 4"	8d @ 12"	3/8" A.B. x 12" @ 48" O.C.	16d @ 2" O.C.	ABS @ 6" O.C.
8	3/8" STRUCT 1 (24/0)	1104	3x	8d @ 3"	8d @ 12"	3/8" A.B. x 12" @ 48" O.C.	16d @ 2 1/4" O.C.	ABS @ 8" O.C.
9	3/8" STRUCTURAL 1 RATED PLYWOOD	550	3x	8d @ 3"	8d @ 12"	3/8" A.B. x 12" @ 48" O.C.	16d @ 2 1/4" O.C.	ABS @ 8" O.C.
10	3/8" STRUCTURAL 1 PLYWOOD	730	3x	8d @ 3"	8d @ 12"	3/8" A.B. x 12" @ 48" O.C.	3/8" d x 6" LAGS @ 8" O.C.	ABS @ 12" O.C.
11	3/8" STRUCTURAL 1 RATED PLYWOOD	870	3x	8d @ 3"	10d @ 12"	3/8" A.B. x 12" @ 48" O.C.	3/8" d x 6" LAGS @ 8" O.C.	ABS @ 8" O.C.
12	13/32" STRUCTURAL 1 RATED PLYWOOD (APPLIED TO BOTH SIDES OF WALL)	1280	3x	8d @ 3"	10d @ 12"	3/8" A.B. x 12" @ 48" O.C.	3/8" d x 6" LAGS @ 8" O.C.	ABS @ 6" O.C.

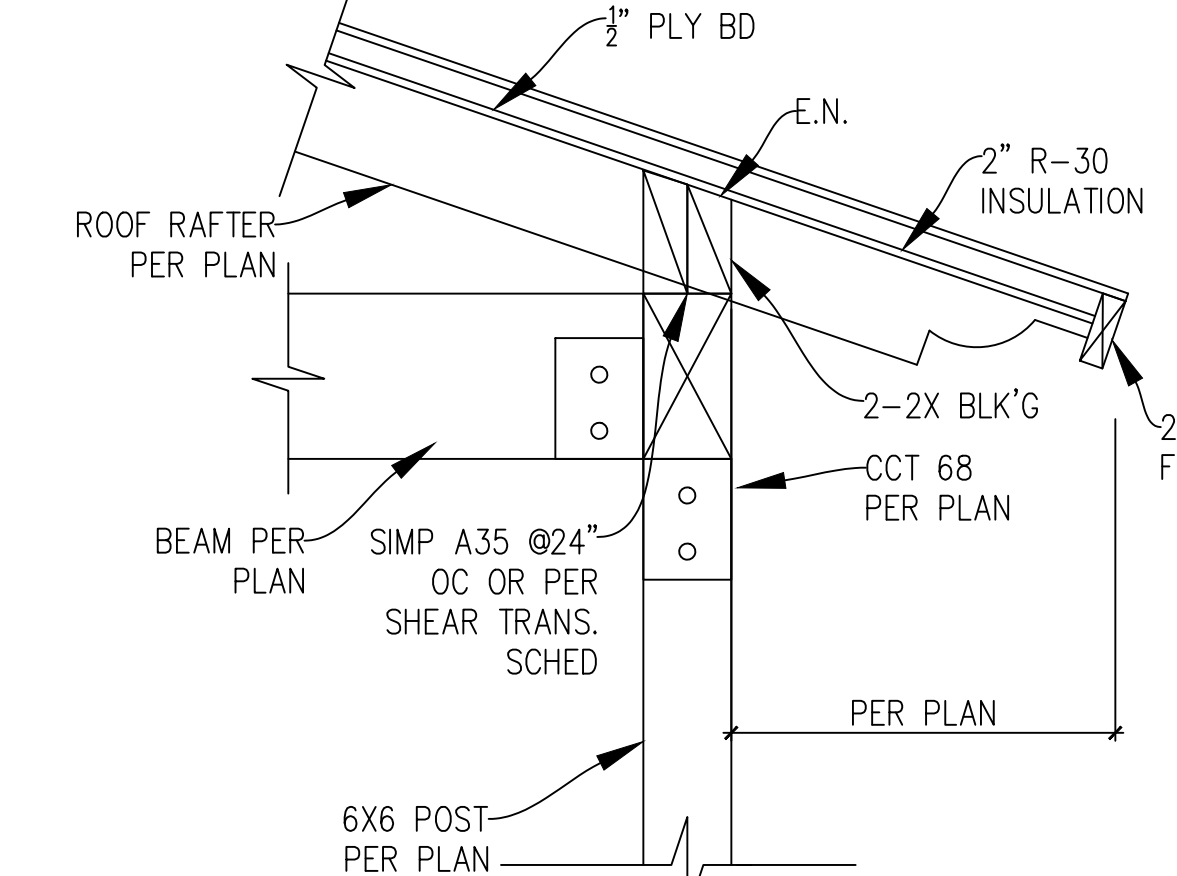
- NOTES:
- FIELD NAILS @ 12" O.C. ALL PANEL EDGES BLK'ED.
  - ALL NAILING TO BE WITH COMMON NAILS
  - Ø ANCHOR BOLTS MIN. PER SHEAR WALL SILL PLATES. EXCEPT FOR SHEAR WALLS LESS OR EQUAL THAN 3'-0" PROVIDE 2 A.B. MIN. NOT INCLUDING HD ANCHOR.
  - ALL SHEAR WALL TYPES WITH 8x STUDS AT EDGE NAILING SHALL HAVE 8x BLOCKING AND 8x FRAMING AT ALL TOP AND BOTTOM PLATES. FOR PLYWOOD APPLIED ON TWO SIDES PROVIDE DOUBLE 8x PLATES WITH STAGGERING NAILING ON EACH PLATE WHERE EDGE NAILING IS LESS THAN 3" O.C., NAILS MUST BE STAGGERED.
  - 2x4 MIN. STUDS AT 16" O.C. WITH 4x4 MIN. POST AT END U.N.O.
  - HOLDOWN AT SECOND FLOOR SUE MST48 U.N.O.
  - FOR DBL SIDED SHEAR PANELS, USE (1) 3x + (1) 2x DOUBLE TOP PLATES, 8x SILL PLATES & 3x STUD FRAMING. EXCEPT AT SHEAR WALL TYPE 12-13 USE 4x BLK'S & 4x EDGE NAILING STUD.
  - WHERE 8x PLATES ARE USED, USE 20d NAILS IN PRE-DRILLED HOLES IN LIEU OF 16d NAILS INDICATED PER SHEAR WALL
  - PROVIDE 2-11/16" TIMBERSTRAND LSL RIM JOIST FOR SILL NAILING LESS THAN 3" OTHERWISE 1 1/2" TIMBERSTRAND LSL RIM JOIST U.N.O.
  - PROVIDE 2x2x8/16 WASHER PLATE AT ALL ANCHOR BOLTS.
  - SHEAR 12-13 USE RFS#5x10 @ 32" O.C. AND SHEAR 13-14 USE RFS#5x16 @ 24" O.C. DO NOT USE ABS WITH TJI REFER TO TJI DETAILS CONNECTION.



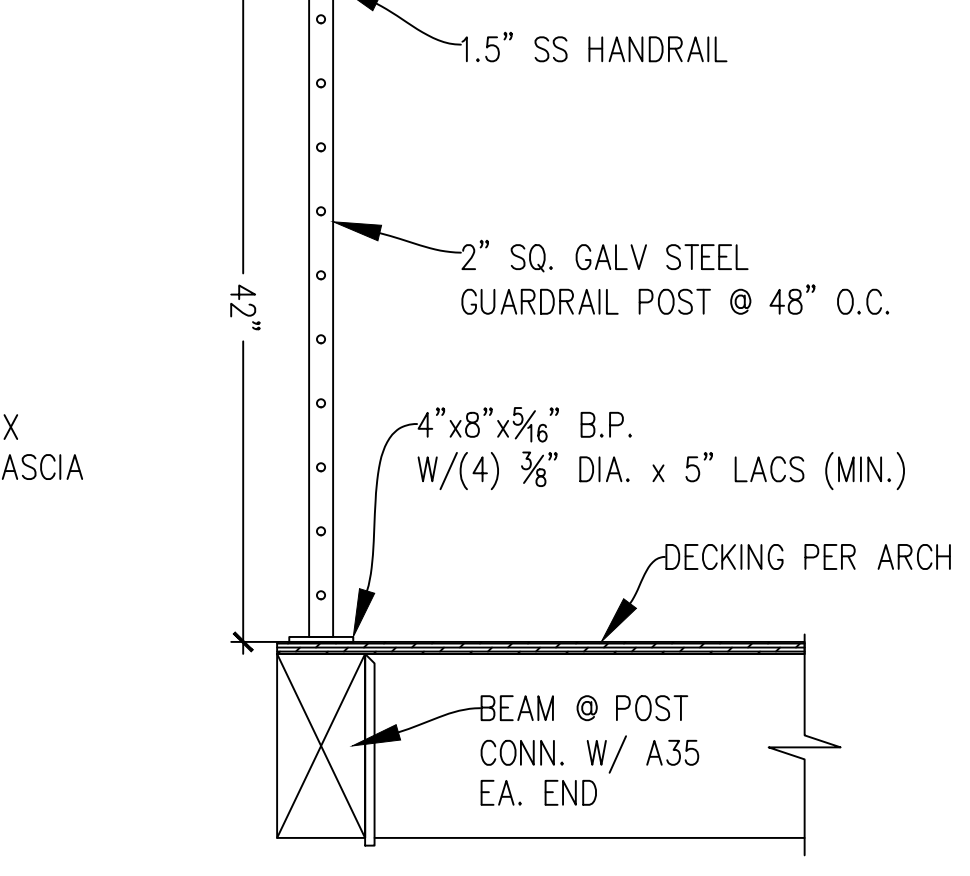
2 SHEAR TRANSFER DETAIL



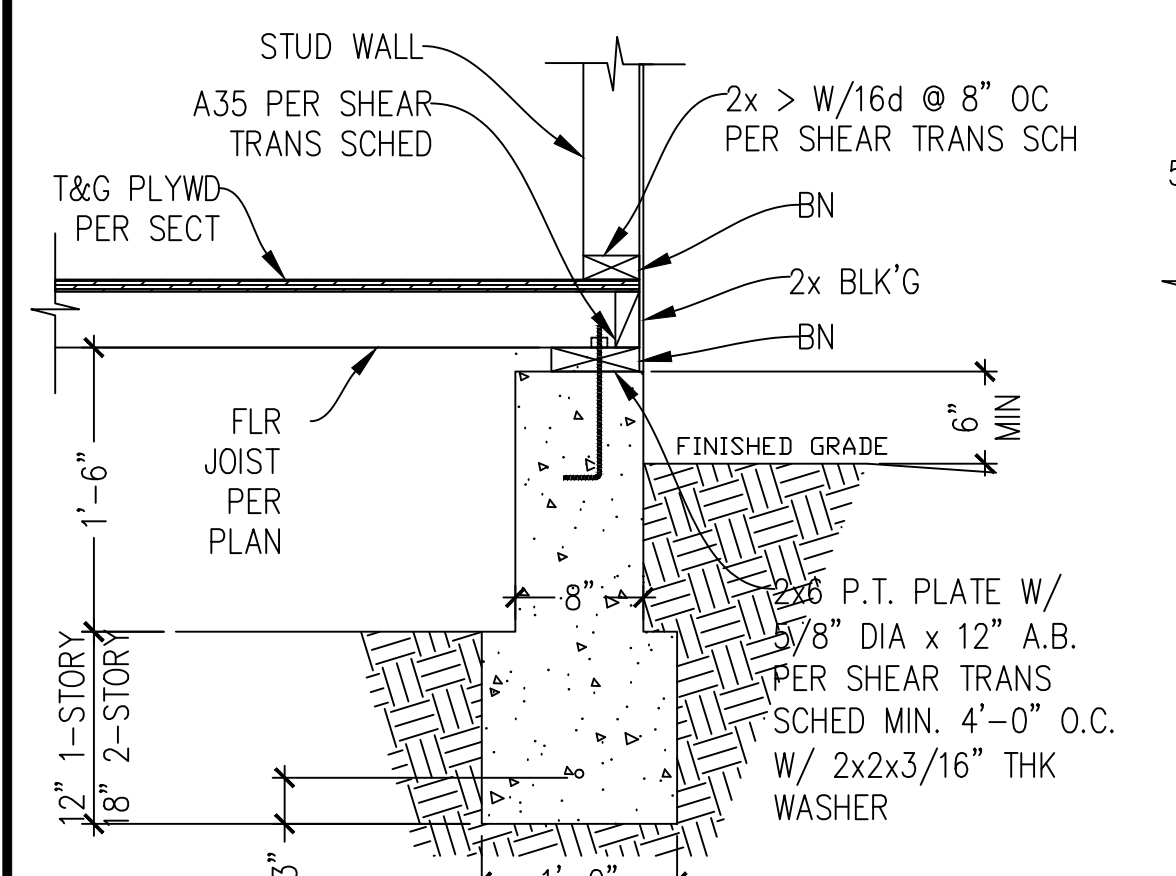
6 POST TO FOOTING CONN.



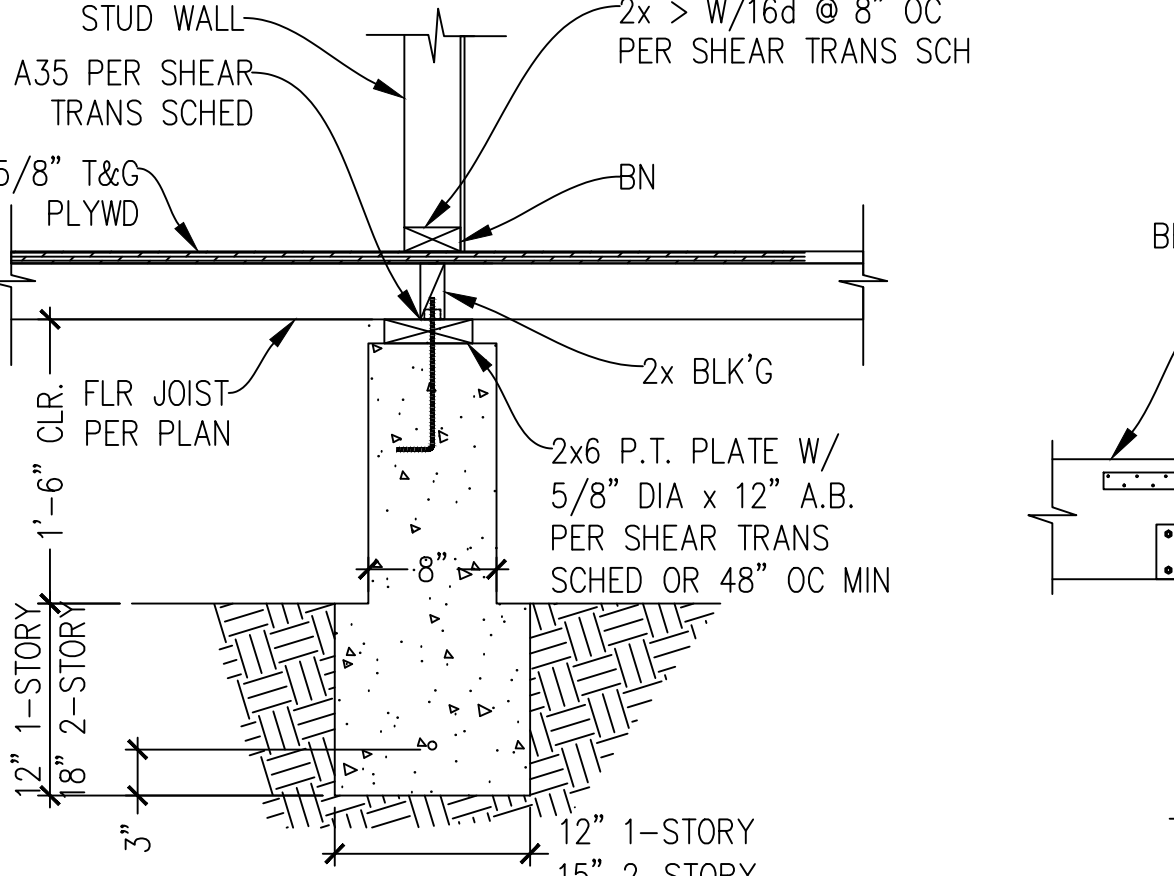
10 SHEAR TRANSFER DETAIL



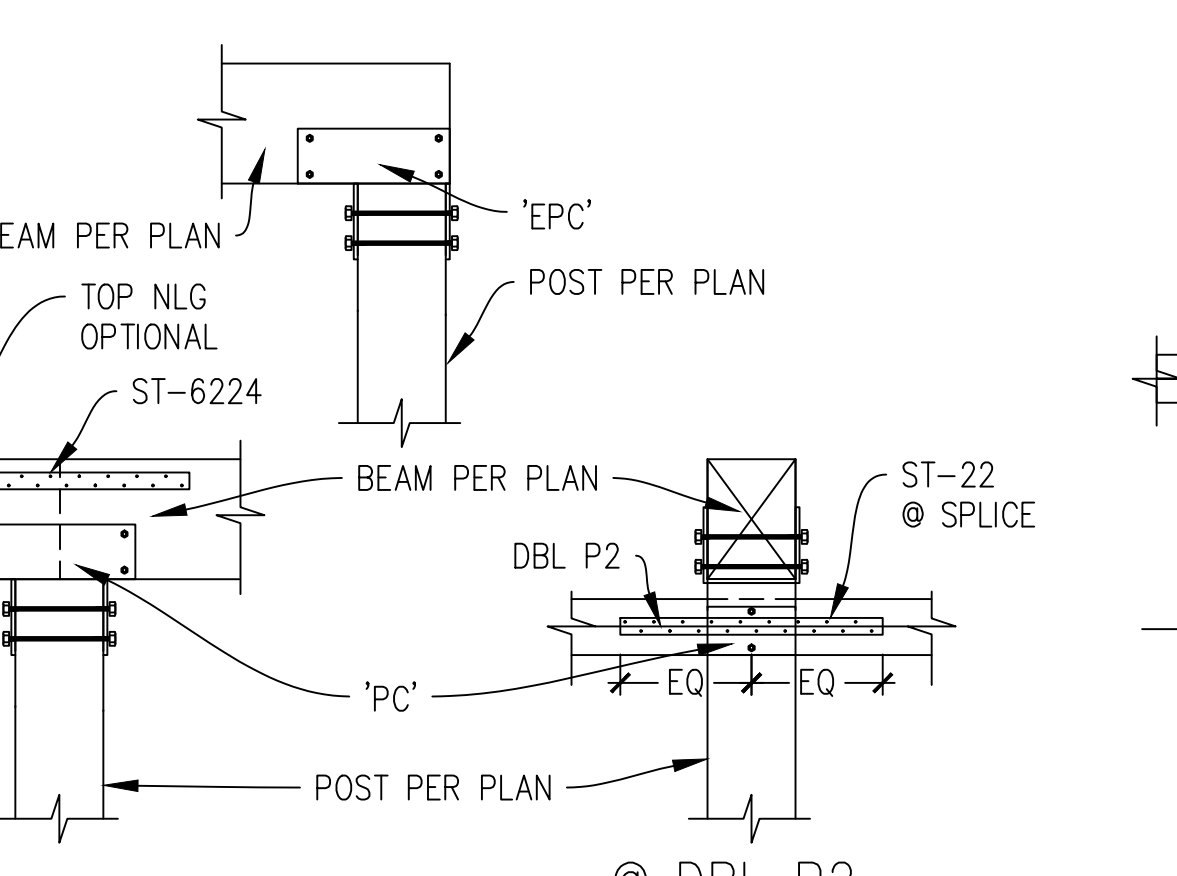
14 SHEAR TRANSFER



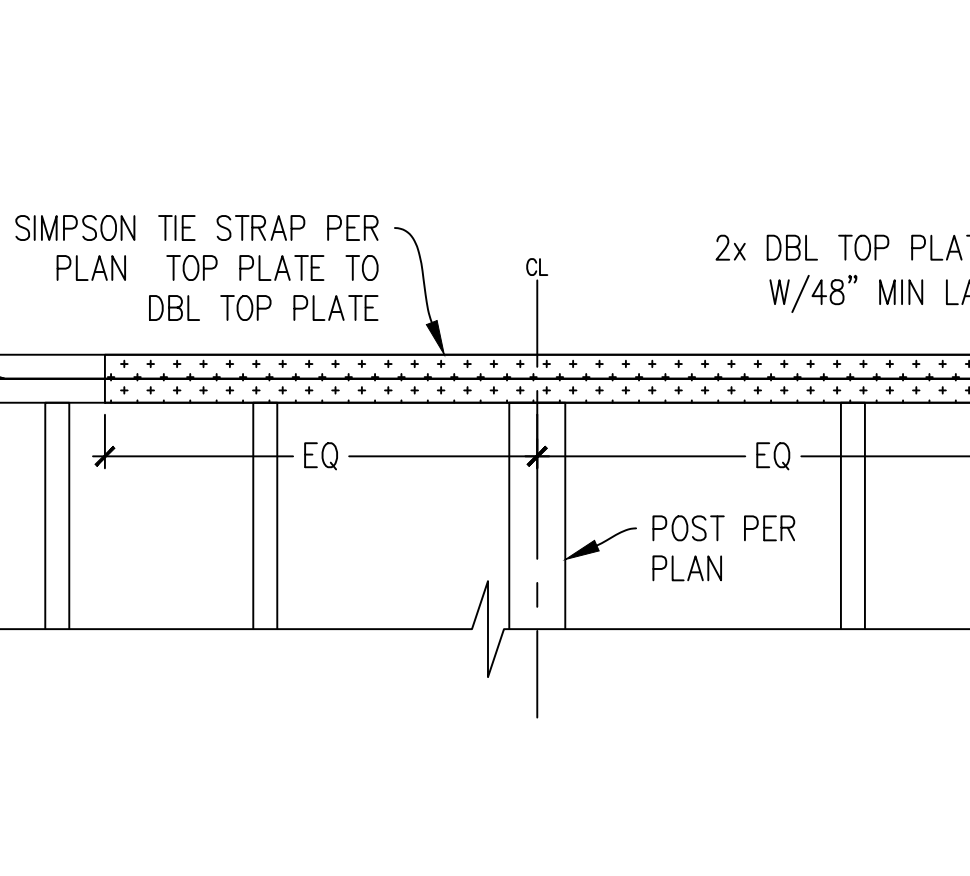
3 EXTERIOR FOOTING



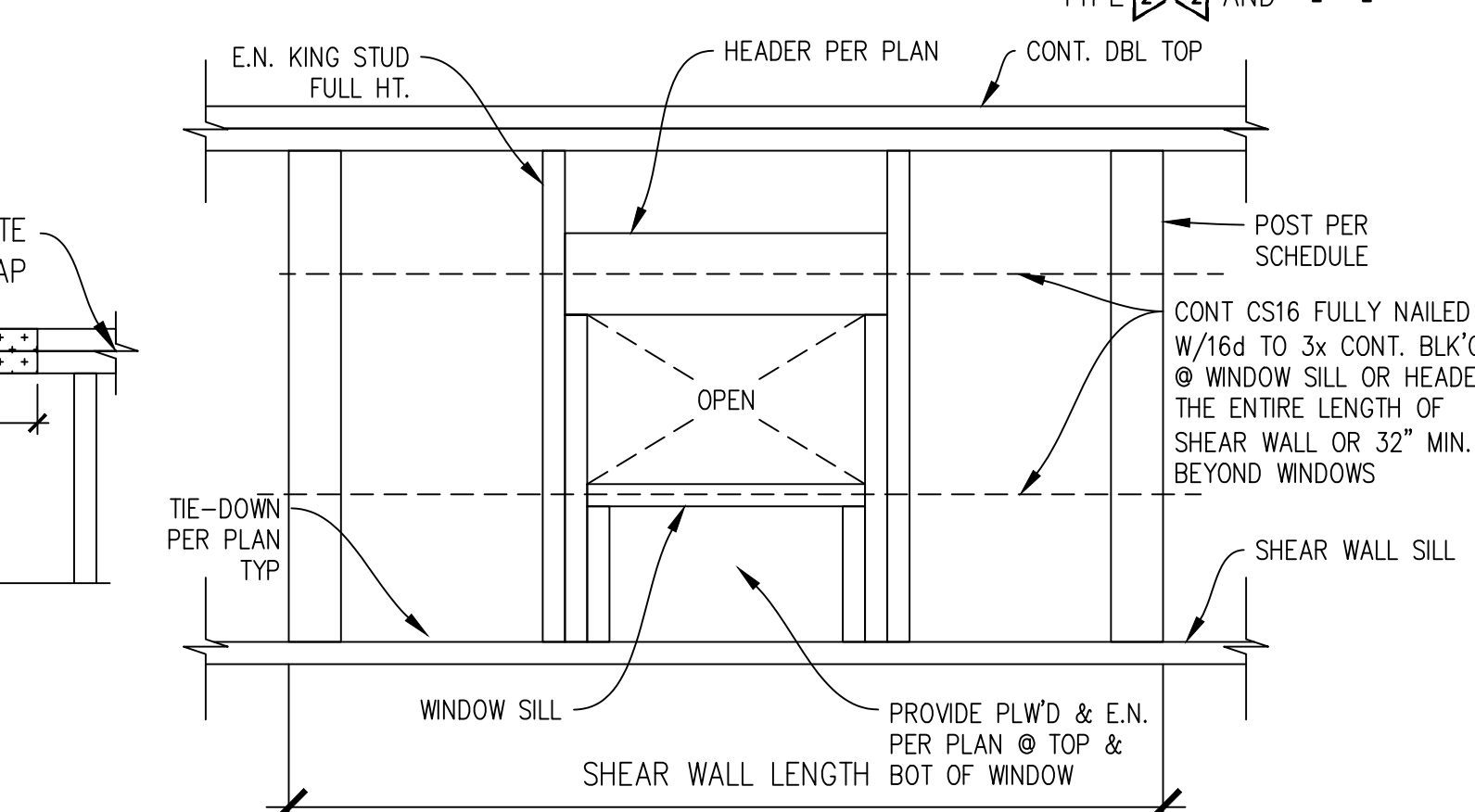
7 BEARING WALL FOOTING



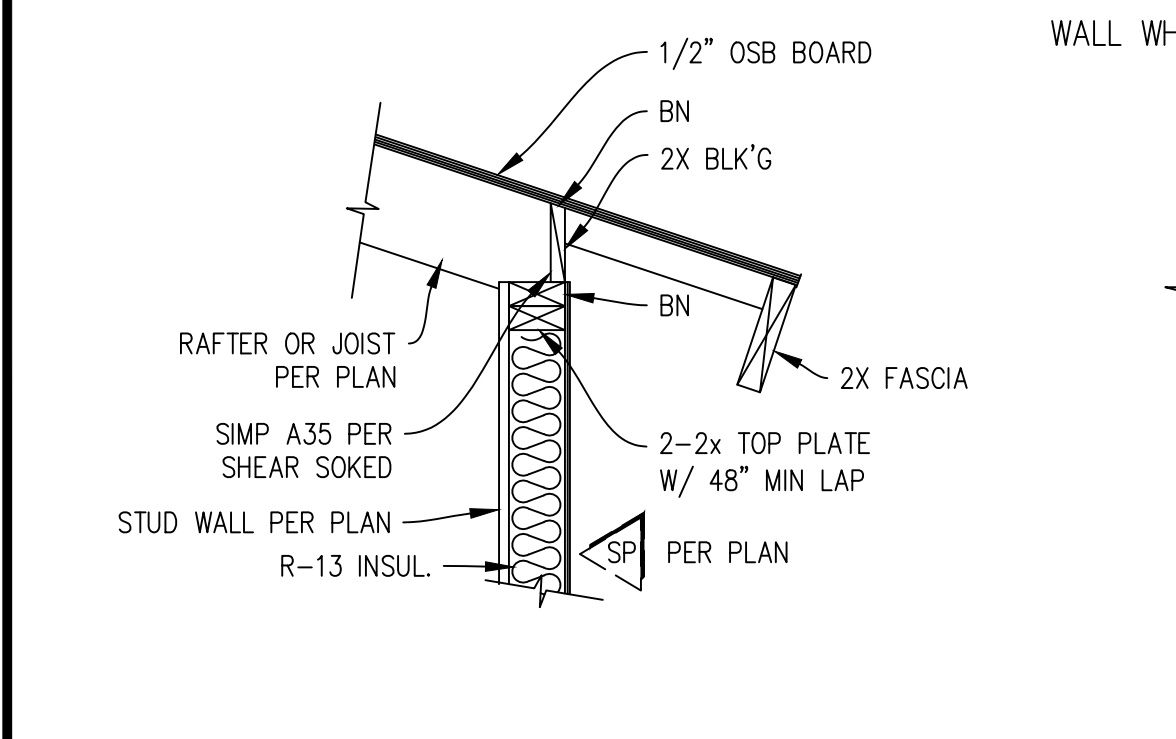
11 POST TO BEAM DETAIL



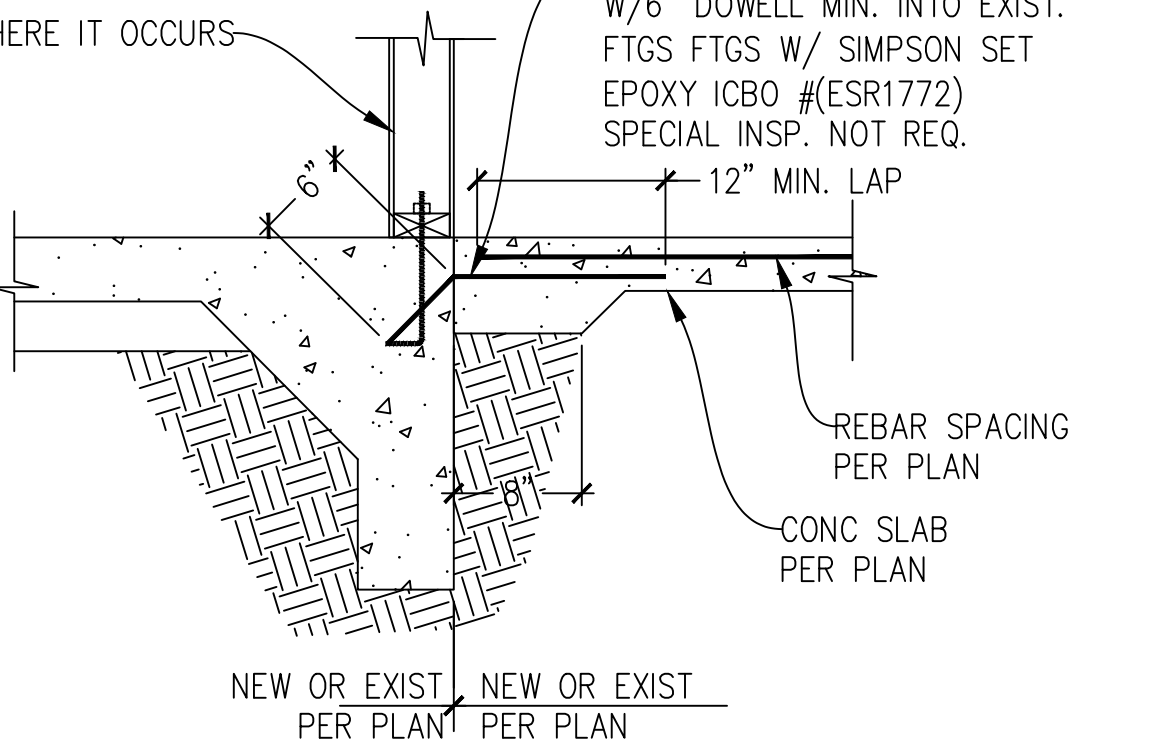
15 HORIZONTAL STRAP DETAIL



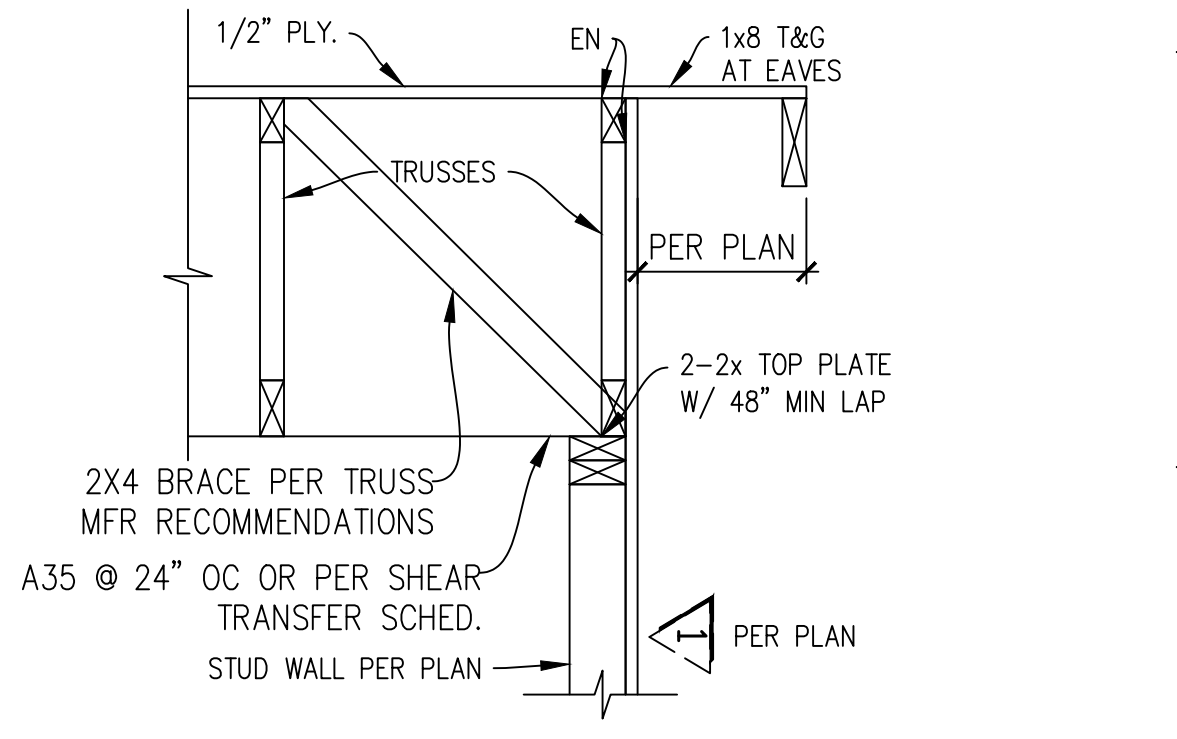
19 TYP. SHEAR WALL WINDOW STRAP



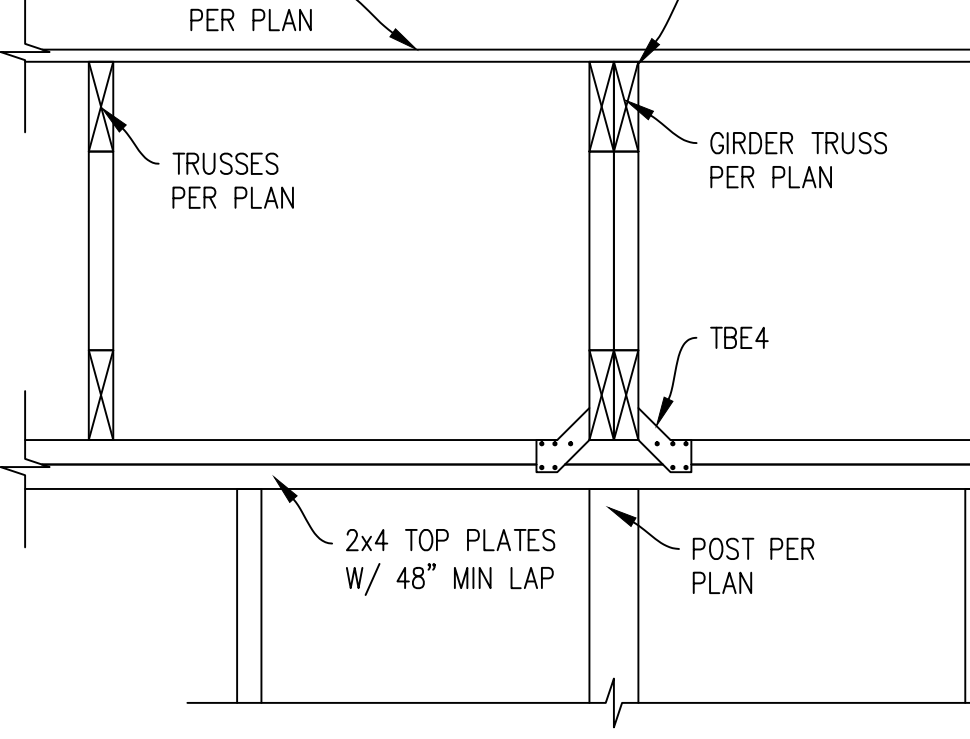
4 SHEAR TRANSFER DETAIL



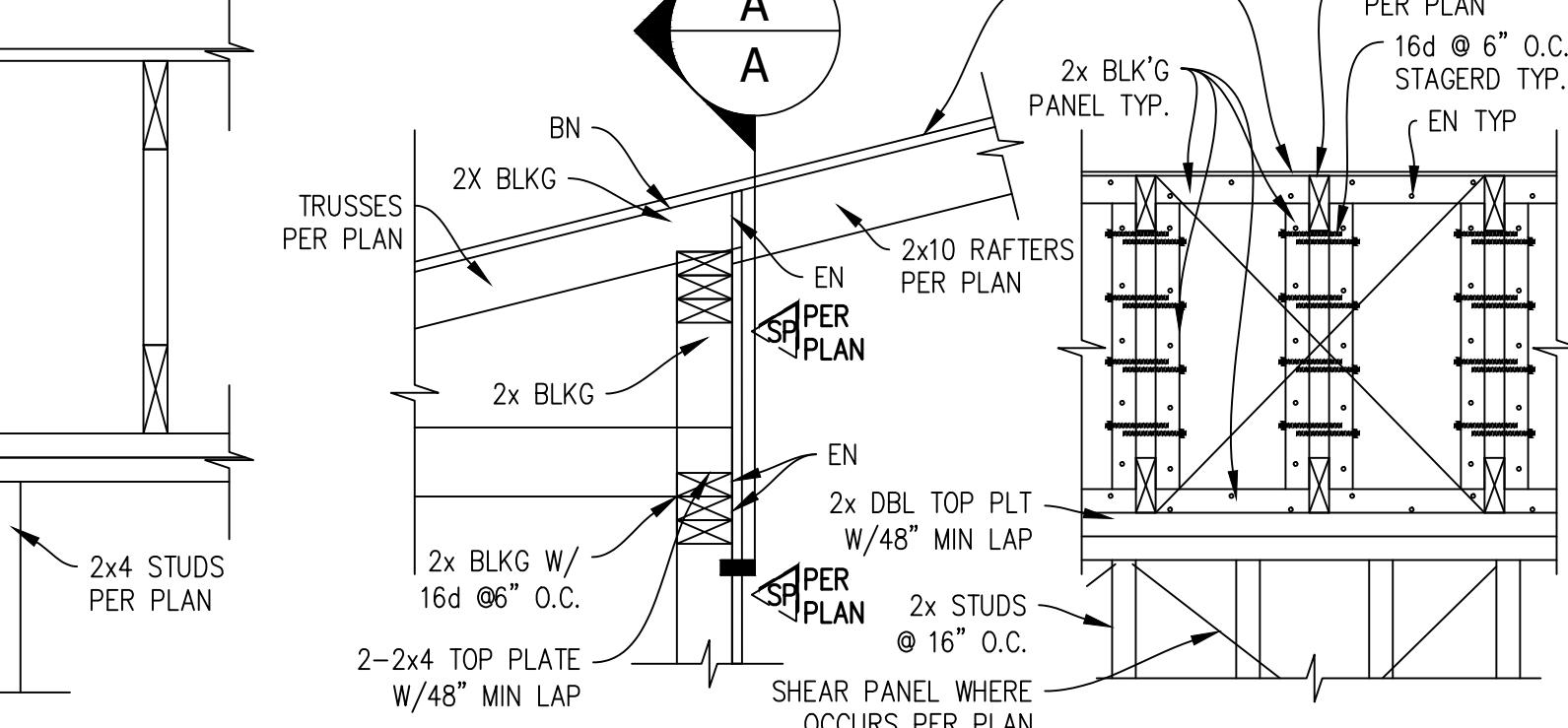
8 SLAB CONNECTION



12 SHEAR TRANSFER DETAIL



16 STRAP DETAIL



20 SHEAR TRANSFER



DRAWINGS PROVIDED BY:  
**AZTEC DRAFTING & DESIGN**  
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EMAIL: LERONEL@AZTECDD.COM  
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**315 S HARBISON DETACH DWELLING UNIT**  
554-112-07-0 315 S HARBISON AVENUE,  
NATIONAL CITY, CALIFORNIA 91950

*Seawall*

**ROOF PLAN & DETAILS TRUSS LAYOUT & DETAILS**

REVISION		
0	-	12/08/21
1	-	07/10/22
2	-	09/26/22
3	-	11/01/22

PROJECT NO.  
**P011**  
SHEET NO.



The truss drawing(s) referenced below were prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Mission Truss Company.

Pages or sheets covered by this seal: R73024304 thru R73024308

My license renewal date for the state of California is June 30, 2024.

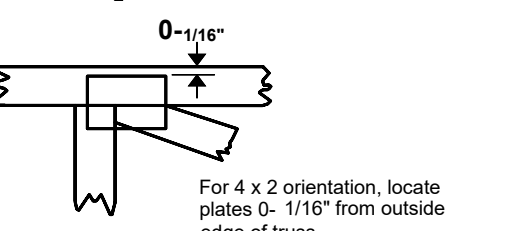
D. Baxter, David

October 11, 2022

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSITP 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included for MiTek or TRENCO's customers is for reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the design for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSITP 1, Chapter 2.

Symbols

PLATE LOCATION AND ORIENTATION
Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



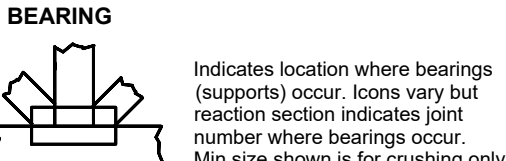
This symbol indicates the required direction of slots in connector plates.

\* Plate location details available in MiTek 2020 software or upon request.

PLATE SIZE

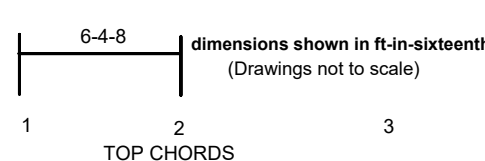
4 x 4
The first dimension is the plate width measured perpendicular to live loads. Second dimension is the length parallel to live loads.

LATERAL BRACING LOCATION
Indicated by symbol shown and/or by text in the bracing section of the output. Use T or B for truss top or bottom.



Industry Standards: ANSITP 1: National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing, Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS LETTERS.

PRODUCT CODE APPROVALS
ICC-ES Reports: ESR-1311, ESR-1352, ESR-1888, ESR-3907, ESR-2362, ESR-1397, ESR-3282

Lumber design values are in accordance with ANSITP 1 section 6.3. These truss designs rely on lumber values established by others.

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- 1. Additional stability bracing for truss system, e.g. diagonal bracing, is always required. See S301.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral bracing members may require bracing or alternatives.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSITP 1.
7. Design assumes trusses will be suitably protected from the environment in accordance with ANSITP 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of the truss fabricator. General practices to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species, grade, size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided as stipulated on drawing.
14. Bottom chords require lateral bracing at 10 ft spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, webs and plates) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacturer in accordance with ANSITP 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

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MiTek Engineering Reference Sheet: MIT-7473 rev. 5/19/2020

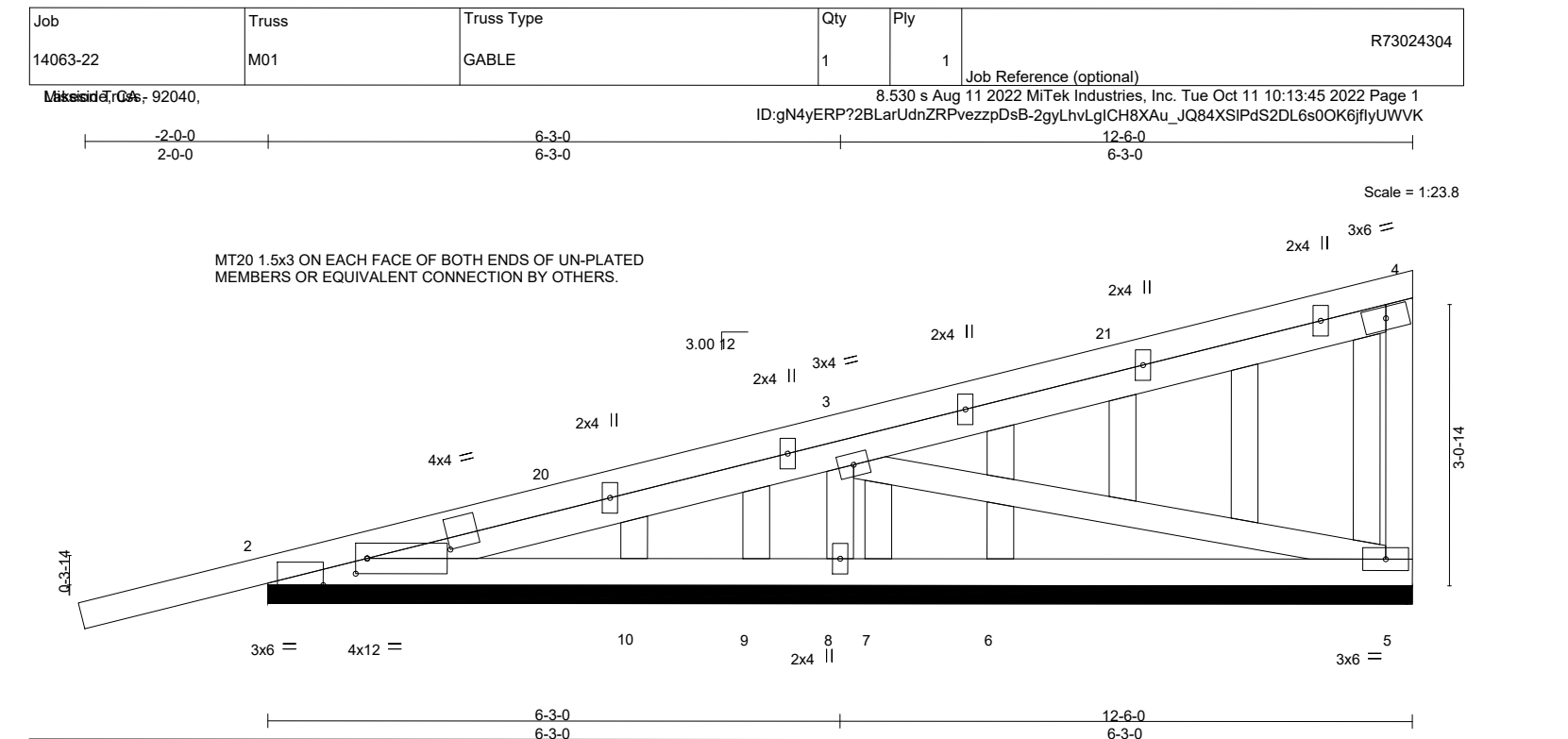


Table with columns: LOADINGS (psf), SPACING, CSL, DEF, VERT, HORIZ, PLATES, GRIP. Includes LUMBER, BRACING, and REACTIONS data.

NOTES: 1) Wind: ASCE 7-16; Valt=110mph (3-second gust) Vasd=87mph. TC=8.4psf; BCDL=6.0psf; h=25ft; B=45ft; L=37ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(E); 2-0 to 1-7.6; Exterior(Z) 1-7.6 to 12-4.4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.25 plate grip DOL=1.25

October 11, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEX REFERENCE PAGE MI-7473 rev. 5/19/2020 BEFORE USE. Design used for one only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss webs and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITP Quality Criteria, DSB-S and BCB Building Component Safety Information available from Truss Plate Institute, 2070 CRAIN HIGHWAY, SUITE 203 WAUSD, MD 20801

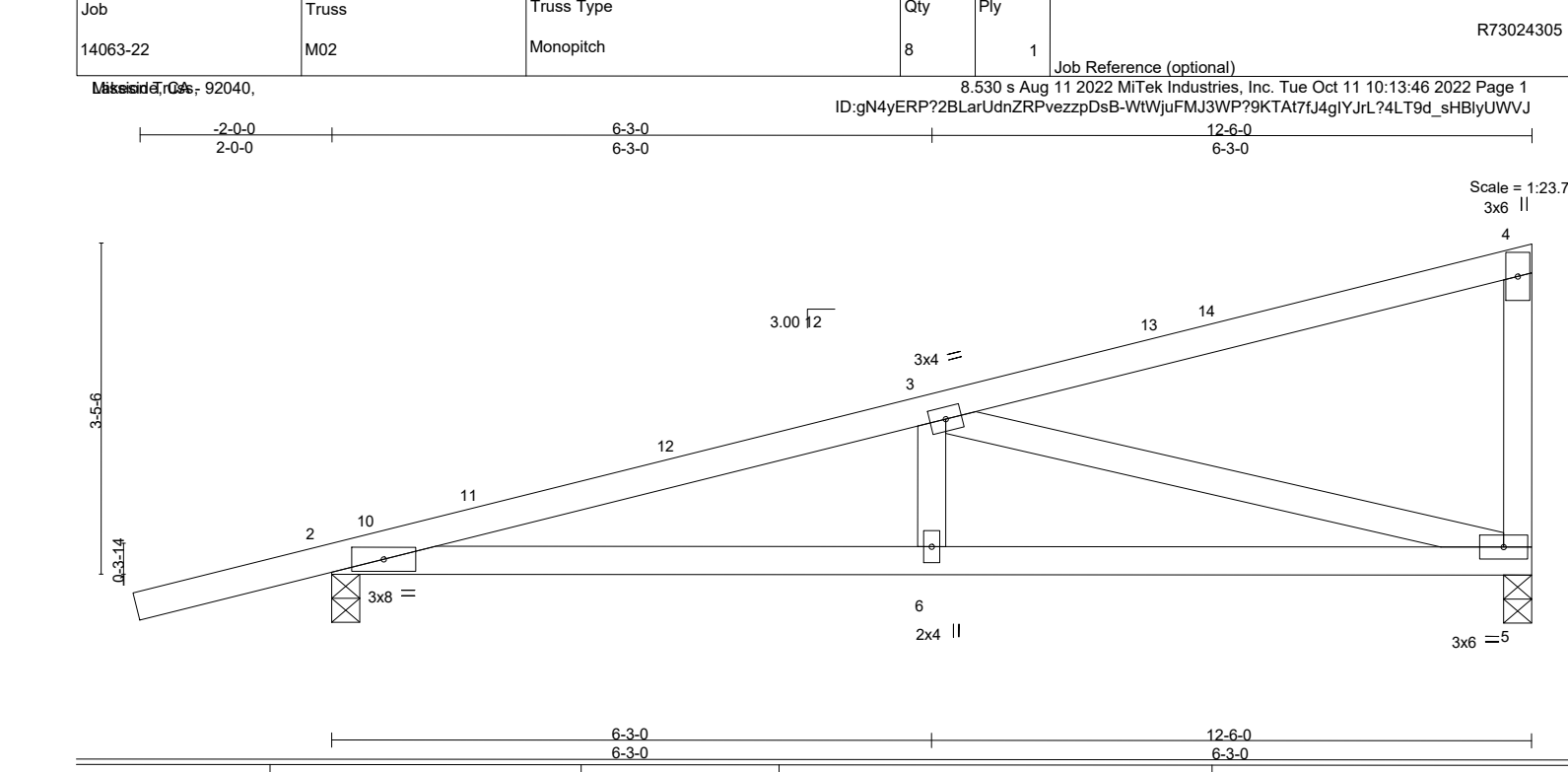


Table with columns: LOADINGS (psf), SPACING, CSL, DEF, VERT, HORIZ, PLATES, GRIP. Includes LUMBER, BRACING, and REACTIONS data.

NOTES: 1) Wind: ASCE 7-16; Valt=110mph (3-second gust) Vasd=87mph. TC=8.4psf; BCDL=6.0psf; h=25ft; B=45ft; L=37ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(ZE); 2-0 to 1-7.6; Interior(I) 1-7.6 to 12-4.4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.25 plate grip DOL=1.25

October 11, 2022

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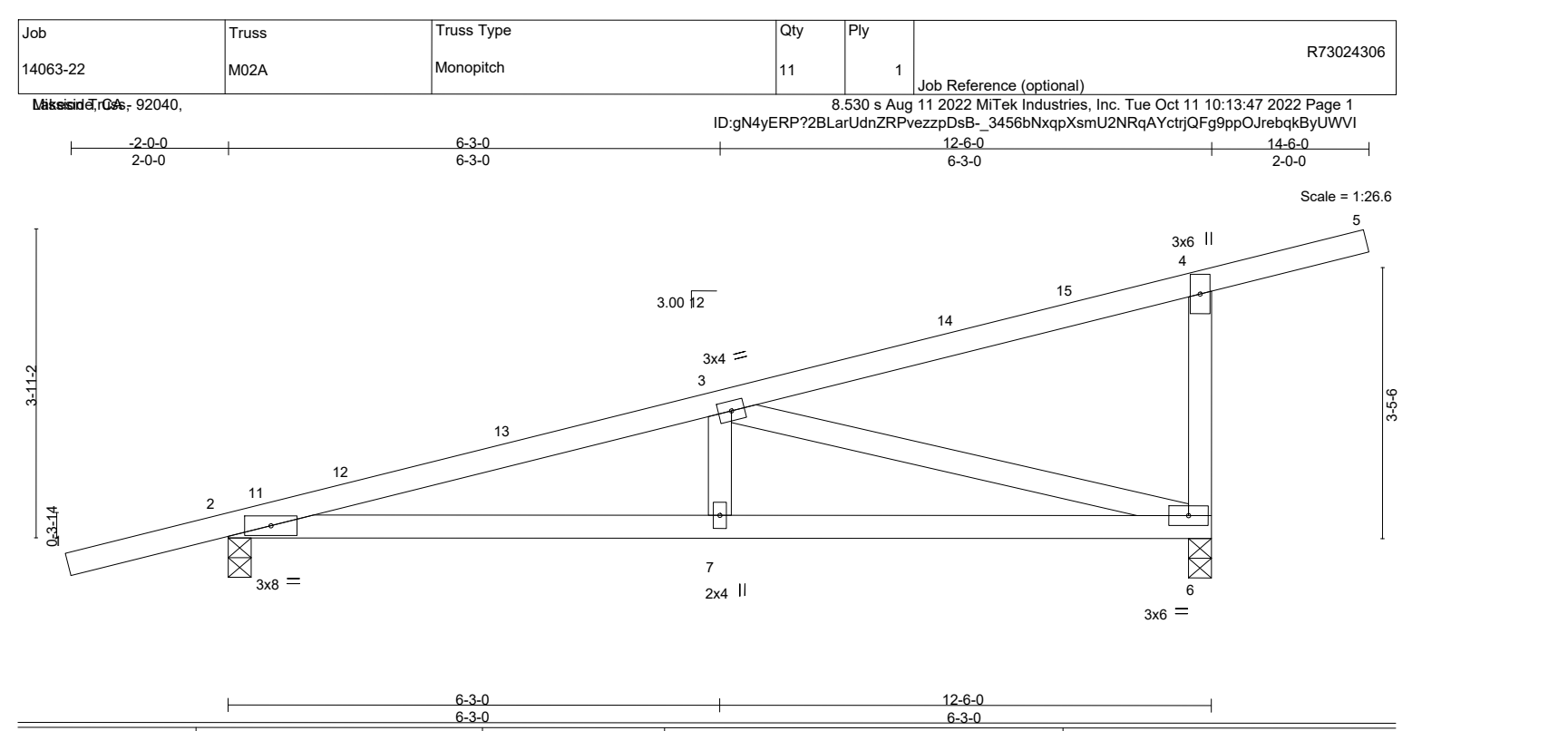


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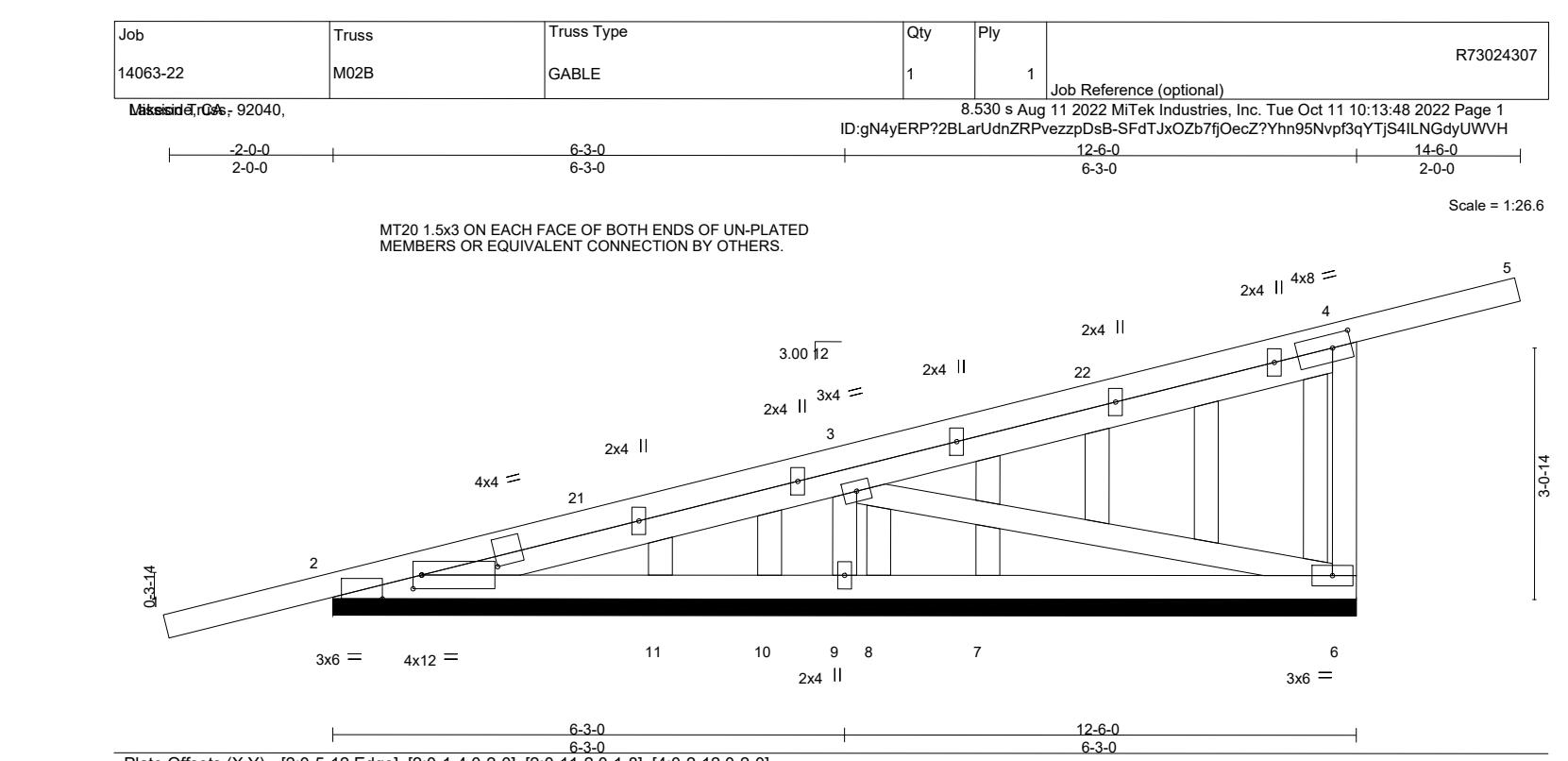


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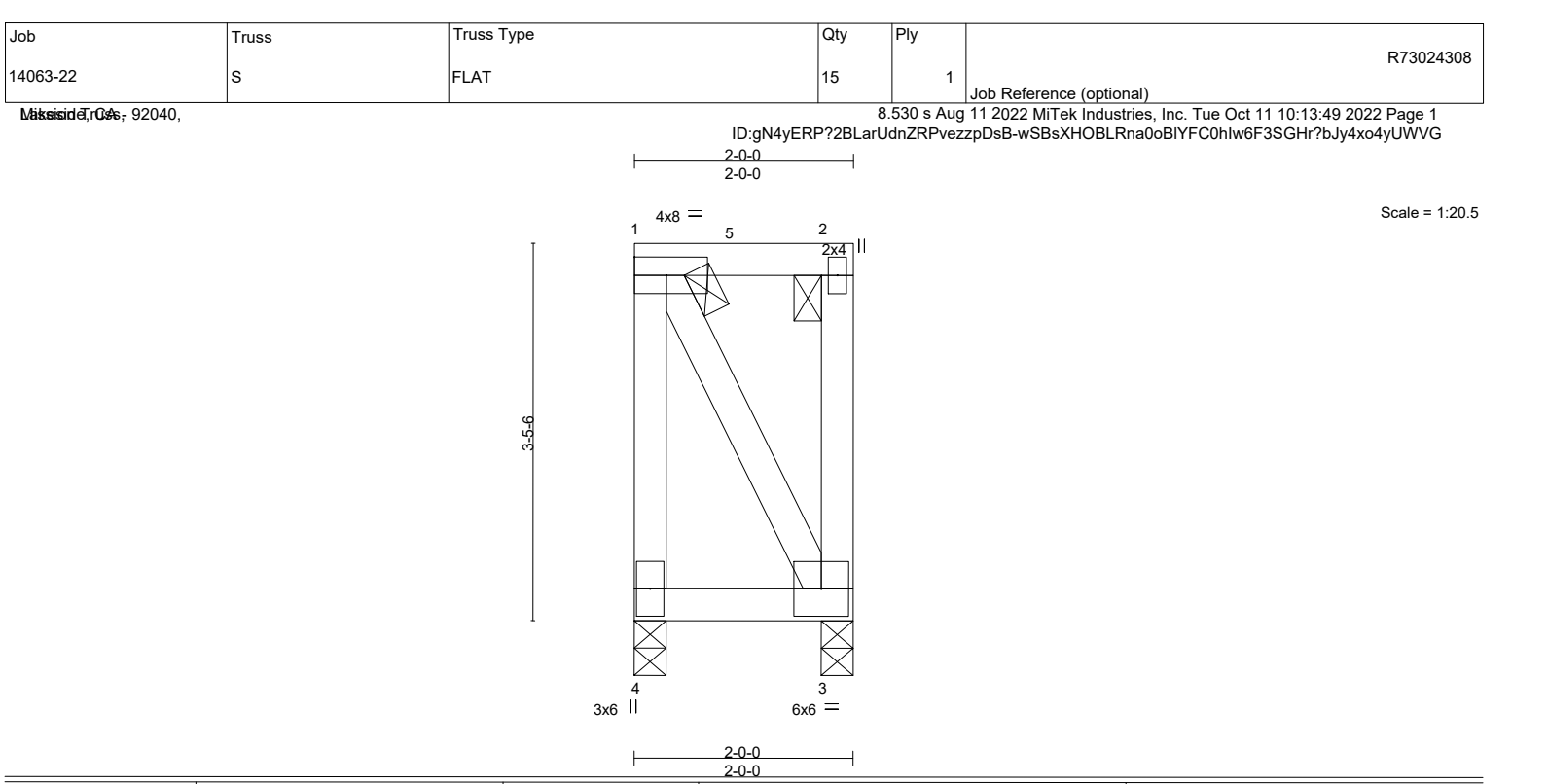


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315 S HARBISON DETACH DWELLING UNIT



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554-112-07-0 315 S HARBISON AVENUE, NATIONAL CITY, CALIFORNIA 91950

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Table with columns: REVISION, PROJECT NO. P011, SHEET NO. 11