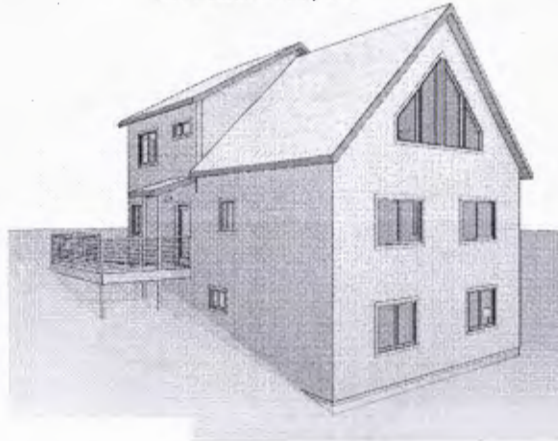


KUHL RESIDENCE

1 BULLARD PLACE (APN: 011-030-058)
POLLOCK PINES, CA



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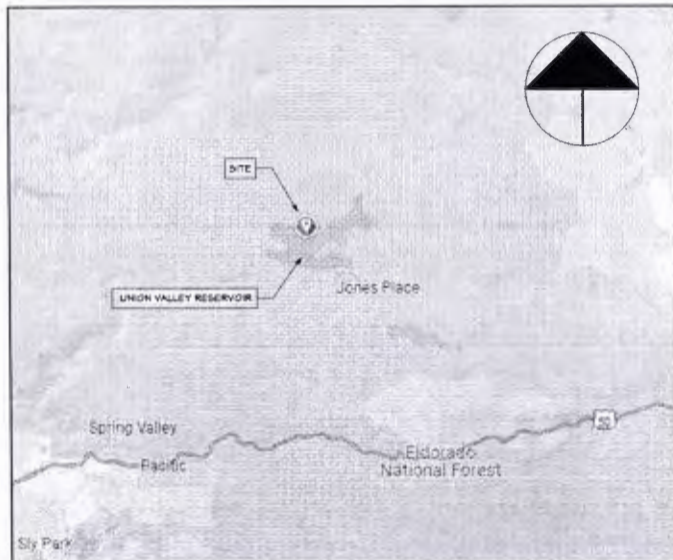
SEP - 9 2024

EL DORADO COUNTY
PLANNING AND BUILDING DEPARTMENT



COVERSHEET
KUHL RESIDENCE
1 BULLARD PLACE (APN: 011-030-058)
POLLOCK PINES, CA

VICINITY MAP



SCOPE OF WORK

CONSTRUCT A NEW RESIDENCE.

SQUARE FOOTAGE SUMMARY

MAIN LEVEL	1120 SF
LOWER LEVEL	788 SF
UPPER LEVEL	635 SF
	2543 SF
ENTRY DECK	179 SF
	179 SF

PROJECT INFORMATION

CONSTRUCTION TYPE: V-B
OCCUPANCY GROUP: R3
SPRINKLERED: YES
STORIES ABOVE GRADE: 3

2022 CALIFORNIA RESIDENTIAL CODE
2022 CALIFORNIA PLUMBING CODE
2022 CALIFORNIA MECHANICAL CODE
2022 CALIFORNIA ELECTRICAL CODE
2022 CALIFORNIA BUILDING CODE
2022 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

SHEET INDEX

A0.0	COVERSHEET
A0.1	ARCHITECTURAL NOTES
A1.0	ARCHITECTURAL FLOOR PLANS
A2.0	ELEVATIONS
A3.0	ARCHITECTURAL ROOF PLAN & SECTIONS
E1.0	ELECTRICAL PLANS
S1.0	GAS PIPING PLAN
S1.0	STRUCTURAL FLOOR PLANS
S2.0	FOUNDATION & MAIN FLOOR FRAMING PLANS
S3.0	UPPER FLOOR FRAMING & ROOF FRAMING PLANS
SD1	STRUCTURAL DETAILS
SD2	STRUCTURAL DETAILS
SD3	STRUCTURAL DETAILS
SH1	STRUCTURAL NOTES
C1 - C4	CIVIL PLANS
FP1	FIRE SPRINKLER PLAN

REVISIONS



SHEET #

A0.0

25-907 Q 11 of 11
CUP24-0011

Project: Kuhl Custom Home, 1 Bullard Place Climate Zone: 16
This Project complies with the Residential 2022 Building Energy Efficiency Standards with the following minimum assemblies and efficiencies.

Project: Kuhl Custom Home, 1 Bullard Place Climate Zone: 16
This Project complies with the Residential 2022 Building Energy Efficiency Standards with the following minimum assemblies and efficiencies.

Exterior Assemblies:
Roofing = Rustic Barrier on Sheathing Not Required. Cool Roof Shingles Not Required
Ceiling = R-38 batt or blown on Lid, Vented Attic, Metal or Corrug Roof
Vaulted Ceiling = R-38 in Vault Ceiling, Sheathing, Corrug or Metal Roof
Walls = 2x6, R-21, Wood Siding or Stucco
Underground Walls = Min. 6" Concrete/Masonry, 2x6 Wood Frame, R-21, Gyp.
Floor = R-30 Railed Floor
Front Door Orientation: 315 degrees (on plot plan)

Glazing:
Average Weighted Total = Wood, Vinyl, or T.B. Metal, Argon, Low-E3 (U=.28 & shgc=.30)
Skylights / Solar Tubes = NA

Whole House Fan = Not Required
Total Zone = 80kbtu Ducted Gas Furnace rated at a minimum 95% stue
NOTE: Pre-wire FAU area for future Electrification, required per Mandatory Measures
Ducting = 8" x 8" Insulated ducts located in crawl space per 2" MERV 13 R13 & HRV Filters
HRV / ERV = Brown B130H60 (or equal) rated at 11cfm, SRE .56, ASRE .62, 69watts
HRV / ERV = All components (supply inlet, filter, cones) are accessible per RACM
Sizing of HVAC equipment is for reference only.
Mechanical Contractor responsible for properly sizing and installing the HVAC system.

Solar P.V.: Minimum 6.0 kWdc / 180 Azimuth / 22deg Array / 4.8 Tilt / 96% Inverter Eff
Battery Storage: Basic Control, 12kWh (60amp), 96% Charging/Discharging Efficiency, StW Rate

- * HERS Indoor Air Quality Balanced HRV (119) or Verification & HRV Requirements
- * HERS Verification of Kitchen Exhaust Hood (per table 150.0-G-H attached & per HVI or AHAM)
- * HERS Duct Leakage Test (<5%)
- * HERS Verification of R-7.2 Hot Water Pipe Insulation

(1) Instantaneous Gas rated at a max. 100Kbtu input and a min. .95 UEF. R-7.2 pipe insulation required on all hot water pipes. No Flack. Pre-wire for future Electrification required per Mandatory Measures

Appliances:
Oven/Stove top = Electric or Gas (Pre-wire for future Electrification required per Mandatory Measures)
Clothes Dryer = Electric or Gas (Pre-wire for future Electrification required per Mandatory Measures)

Over/Slave top = Electric or Gas (Pre-wire for future Electrification required per Mandatory Measures)
Clothes Dryer = Electric or Gas (Pre-wire for future Electrification required per Mandatory Measures)

1. 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. G058C 4.303.1
2. AUTOMATIC IRRIGATION SYSTEMS CONTROLLERS INSTALLED AT THE TIME OF FINAL INSPECTION SHALL BE PROVIDED WITH INTEGRATED SENSORS OR SOIL MOISTURE SENSORS THAT ARE NOT IRRIGATION IN RESPONSE TO CHANGE IN PLANTS' NEEDS AS WEATHER CONDITIONS CHANGE. G058C 4.304
3. ANNUAL SPARES SHOULD INCLUDE PIPES, ELECTRICAL CABLES, CONDUITS OR OTHER OPENINGS IN FLATES AT EXTERIOR WALL SHALL BE PROTECTED AGAINST THE PASSAGE OF RODENTS BY CLOSING SUCH OPENING WITH AN APPROVED HORIZONTAL RODENT EXCLUSION DEVICE. G058C 4.406
4. METHODS. G058C 4.406
5. A MINIMUM OF 50 PERCENT OF THE CONSTRUCTION WASTE GENERATED AT THE SITE SHALL BE DIVERTED TO RECYCLE OR SALVAGE. G058C 4.408.1
6. AN OPERATION AND MAINTENANCE MANUAL SHALL BE PROVIDED FOR AT FINAL INSPECTION. G058C 4.410.1
7. GAS FIREPLACES SHALL BE A DIRECT-VENT SEALED COMBUSTION TYPE. MODEL/TEST STOVES SHALL COMPLY WITH U.S. EPA NEW SOURCE CATEGORY II, NATIONALLY LISTED, AND SHALL BE INSTALLED IN ACCORDANCE WITH DUCT AND VENT OPENINGS SHALL BE COVERED DURING CONSTRUCTION. G058C 4.504.1
8. ADHESIVES, SEALANTS AND CAULK SHALL BE COMPLIANT WITH VOC AND OTHER TOXIC COMPOUND LIMITS. G058C 4.504.2.1
9. PAINTS, STAINS, AND OTHER COATINGS SHALL BE COMPLIANT WITH VOC AND OTHER TOXIC COMPOUND LIMITS. G058C 4.504.2.2
10. AEROSOL PAINTS AND COATINGS SHALL BE COMPLIANT WITH PRODUCTS WEIGHTED HAP LIMITS FOR ROG AND OTHER TOXIC COMPOUNDS. G058C 4.504.2.3
11. DOCUMENTATION SHALL BE PROVIDED TO VERIFY THAT COMPLIANT VOLT LINE FINISH MATERIALS HAVE BEEN USED. G058C 4.504.2.4
12. FLOOR AND CARPET SYSTEMS SHALL BE COMPLIANT WITH VOC LIMITS. G058C 4.504.3
13. 90 PERCENT OF FLOOR AREA RECEIVING RESILIENT FLOORING SHALL COMPLY WITH THE FOLLOWING:
 - A. COLLABORATIVE OF HIGH PERFORMANCE SCHOOLS (CHPS) HIGH PERFORMANCE PRODUCTS DATABASE OR COMPLIANT WITH CHPS CERTIFICATION CERTIFIED BY THE COLLABORATIVE OF SCHOOLS PROGRAM OR BE CERTIFIED UNDER THE RESILIENT FLOOR COVERING INSTITUTE (RFCI) FLOOR COVER PROGRAM OR MEET THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH'S (CDPH) 15% THRESHOLD FOR TESTS AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM FLOOR SOURCES USING ENVIRONMENTAL CHAMBERS." G058C 4.504.4 PARTICLE DENSITY, MEDIUM DENSITY FIBERBOARD (MDF) AND HARDWOOD LAMINATE USED IN INTERIORS SHALL BE COMPLIANT WITH THE CARBON MONOXIDE EMISSION STANDARDS. G058C 4.504.5
 - B. MOISTURE CONTENT OR BUILDING MATERIALS USED IN ENCLOSED WALL OR FLOOR FINISHING SHALL BE COMPLIANT WITH THE FOLLOWING AND EXCEED 19%: G058C 4.505.3
14. DUCT SYSTEMS SHALL BE SIZED AND DESIGNED AND EQUIPMENT SHALL BE SIZED USING THE FOLLOWING:
 - A. ESTABLISH MEAN SDOH AND MEAN GAT VALUES ACCORDING TO ANSACQA MANUAL 325TH OR EQUIVALENT
 - B. DUCT SYSTEMS ACCORDING TO ANSACQA 1 MANUAL D-2018 OR EQUIVALENT
 - C. SELECT HEATING AND COOLING EQUIPMENT ACCORDING TO ANSACQA 3 MANUAL 325TH OR EQUIVALENT

1. WATER CLETETS: ≤ 1.28 gal/flush GBSG 4.303.1
2. SINGLE SHOWERHEADS: ≤ 1.5 gpm @ 80 psi GBSG 4.303.1.3
3. MULTIPLE SHOWERHEAD: COMBINED FLOW RATE OF ALL SHOWERHEADS
4. AND/OR OTHER SHOWER OUTLETS CONTROLLED BY A SINGLE VALVE
5. SHALL NOT EXCEED 1.5 gpm @ 80 psi OR ONLY ONE SHOWER OUTLET IS
6. IN USE IN OPERATION AT A TIME. GBSG 4.303.1.3.2
7. RESIDENTIAL LAVATORY FAUCETS: ≤ 1.2 gpm @ 80 psi GBSG 4.303.1.4.1
8. KITCHEN FAUCETS: ≤ 1.2 gpm @ 80 psi. THE MAXIMUM INCREASE TO 2.2 gpm
9. IS ALLOWED BUT SHALL BE LIMITED TO 1.0 LPM INCREASE. 4.303.1.4.2

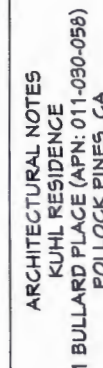
1. WATER HEATER SHALL HAVE ISOLATION VALVES ON BOTH THE COLD WATER SUPPLY AND THE HOT WATER PIPE LEAVING THE WATER HEATER, AND HOSE BIBS OR OTHER FITTINGS ON EACH VALVE FOR FLUSHING THE WATER HEATER.
2. PROVIDE A WATER-TIGHT DRAIN PAN OF CORROSION-RESISTANT MATERIALS BENEATH THE WATER HEATER AT A 3/4" DRAIN TO AN APPROVED LOCAL DRAINAGE SYSTEM OR DRAINAGE PUMP.
3. PROVIDE A VENT PIPE FROM THE TOP OF THE WATER HEATER THAT ALLOWS NATURAL DRAIN WITHOUT PLUMB ASSISTANCE SHALL BE INSTALLED.
4. PROTECTORY ILV OR RAIN CAP SHALL BE INSTALLED ON THE VENT PIPE BETWEEN THE OUTSIDE TERMINAL AND THE SPACE WHERE THE WATER HEATER IS LOCATED SHALL BE INSTALLED
5. TYPE WATER HEATER REQUIRE 2 SEISMIC STRAPS, ONE TRAP WITHIN THE UPPER 1/5 AND THE OTHER WITHIN THE LOWER 1/3 OF THE WATER HEATER. THE LOWER STRAP SHALL NOT BE WITHIN 4' OF THE WALLS. CPC 507
6. STORAGE TYPE WATER HEATER SHALL BE PROVIDED WITHIN AN APPROVED, LISTED, ADEQUATELY SIZED COMBINATION PRESSURE AND TEMPERATURE RELIEF VALVE ASSEMBLY. IF SUCH A DEVICE IS NOT INSTALLED, AN APPROVED, LISTED EXPANSION TANK OR OTHER DEVICE SHALL BE INSTALLED TO CONTROL INTERMITTENT THERMAL EXPANSION. CPC 608
7. WATER HEATERS INSTALLED IN THE GARAGE SHALL BE INSTALLED SO THAT ALL BURNERS AND BURNER-IGNITION DEVICES ARE LOCATED NOT LESS THAN 18" ABOVE THE FLOOR UNLESS LISTED AS FLAMELESS VULNERABLE TO INTERIOR RESISTANT FIRE PROTECTION. PROTECTED BY AUTOMATIC IMPACT. CGC907.13 & 907.13.1
8. WATER HEATERS AND OTHER BURNER & BURNER-IGNITION APPLIANCES THAT ARE INSTALLED IN THE GARAGE AND ADJACENT SPACES THAT OPEN TO THE GARAGE SHALL NOT BE LOCATED NOT LESS THAN 18 INCHES ABOVE THE FLOOR AND SHALL CONFORM WITH ONE OF THE BELOW (PER CHC 909.1.1)
 - a. SHALL BE GUARDED AGAINST DAMAGE BY A PROTECTIVE BARRIER
 - b. SHALL BE LOCATED OUT OF THE NORMAL PATH OF VEHICLES

3. THIS PROJECT IS SUBJECT TO THE MIDLAND URBAN INTERFACE REQUIREMENTS. THE FOLLOWING METHODS FOR EXTERIOR WILDFIRE EXPOSURE UNDER THE FOLLOWING CODE SECTIONS WILL APPLY:
 - 1. EXTERIOR WILDFIRE EXPOSURE: THIS PROJECT IS CONSTRUCTED WITH NON-COMBUSTIBLE OR IGNITION RESISTANT HARDBOARD GEMENT BEING THAT MEET THE PERFORMANCE CRITERIA IN CALIFORNIA FIRE ALARM AND DETECTION CODE SECTION 712.1.1. FLAME CONTACT EXPOSURE TEST SET FORTH IN SFPM STANDARD 12A-1.
 - 2. VENTING-EGRES AND OVERHANGS- VENTILATION OPENINGS FOR ENCLOSED AREAS ARE ENCLOSED WITH NON-COMBUSTIBLE MATERIALS. GLAZES FORMED WHERE CEILINGS ARE APPLIED DIRECTLY TO THE UNDERSIDE OF ROOF RAFTERS, AND UNDERLOOF VENTILATION OPENINGS WILL BE THE FOLLOWING: 1) VENTILATION OPENINGS SHALL BE 1/8" MINIMUM OPENINGS WILL BE A MINIMUM OF 1/16" AND NOT TO EXCEED 1/80". 2) THE MATERIALS USED MUST BE NON-COMBUSTIBLE. 3) THE MATERIALS MUST BE CORROSION RESISTANT. VULCAN VENTS WILL BE USED TO MEET THESE REQUIREMENTS.
 - 3. PENDONT GLAZING AND DOOR PROTECTION: ALL OF THE FOLLOWINGS WILL BE CONSTRUCTED OF DUAL GLAZED TEMPERED PANES MEETING THE REQUIREMENTS OF CALIFORNIA FIRE ALARM AND DETECTION CODE SECTIONS: 1) EXTERIOR GLAZED DOORS. 2) EXTERIOR GLAZED DOORS. 3) GLAZED OPENINGS WITHIN EXTERIOR DOORS. 4) GLAZED OPENINGS WITHIN EXTERIOR GARAGE DOORS. 5) EXTERIOR GLAZED DOORS. 6) EXTERIOR GLAZED DOORS. 7) EXTERIOR GLAZED DOORS. 8) EXTERIOR DOORS: WILL BE A SOLID-CORE, NON-COMBUSTIBLE OR IGNITION RESISTANT MATERIAL PER CIRC 331.8.
 - 4. VEGETATION MANAGEMENT COMPLIANCE: PRIOR TO BUILDING PERMIT APPLICATION, THE PROJECT WILL BE IN COMPLIANCE WITH THE VEGETATION MANAGEMENT REQUIREMENTS PRESCRIBED IN CALIFORNIA PUBLIC RESOURCES CODE 421 OR CALIFORNIA GOVERNMENT CODE SECTION 51132. ADDITIONAL REQUIREMENTS FOR VEGETATION MANAGEMENT AND DOCUMENTATION SHALL BE DETERMINED BY THE ENFORCING AGENCY AND MAY INCLUDE ANY OF THE FOLLOWING: 1) LOCAL STATE OR FEDERAL FIRE AUTHORITY. 2) CALIFORNIA FIRE DEPARTMENT. 3) CALIFORNIA FIRE DEPARTMENT. 4) CALIFORNIA FIRE DEPARTMENT. 5) CALIFORNIA FIRE DEPARTMENT. 6) CALIFORNIA FIRE DEPARTMENT. 7) CALIFORNIA FIRE DEPARTMENT. 8) CALIFORNIA FIRE DEPARTMENT. 9) CALIFORNIA FIRE DEPARTMENT. 10) CALIFORNIA FIRE DEPARTMENT. 11) CALIFORNIA FIRE DEPARTMENT. 12) CALIFORNIA FIRE DEPARTMENT. 13) CALIFORNIA FIRE DEPARTMENT. 14) CALIFORNIA FIRE DEPARTMENT. 15) CALIFORNIA FIRE DEPARTMENT. 16) CALIFORNIA FIRE DEPARTMENT. 17) CALIFORNIA FIRE DEPARTMENT. 18) CALIFORNIA FIRE DEPARTMENT. 19) CALIFORNIA FIRE DEPARTMENT. 20) CALIFORNIA FIRE DEPARTMENT. 21) CALIFORNIA FIRE DEPARTMENT. 22) CALIFORNIA FIRE DEPARTMENT. 23) CALIFORNIA FIRE DEPARTMENT. 24) CALIFORNIA FIRE DEPARTMENT. 25) CALIFORNIA FIRE DEPARTMENT. 26) CALIFORNIA FIRE DEPARTMENT. 27) CALIFORNIA 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ALL EXTERIOR DOORS SHALL BE SOLID CORE w/ STILES AND RAILS NOT LESS THAN 1-3/8" THICK WITH INTERIOR FIELD PANEL THICKNESS NO LESS THAN 1-1/4" OR SHALL HAVE A FIRE RATING OF 20 MINUTES. PER CRC R331.8.3

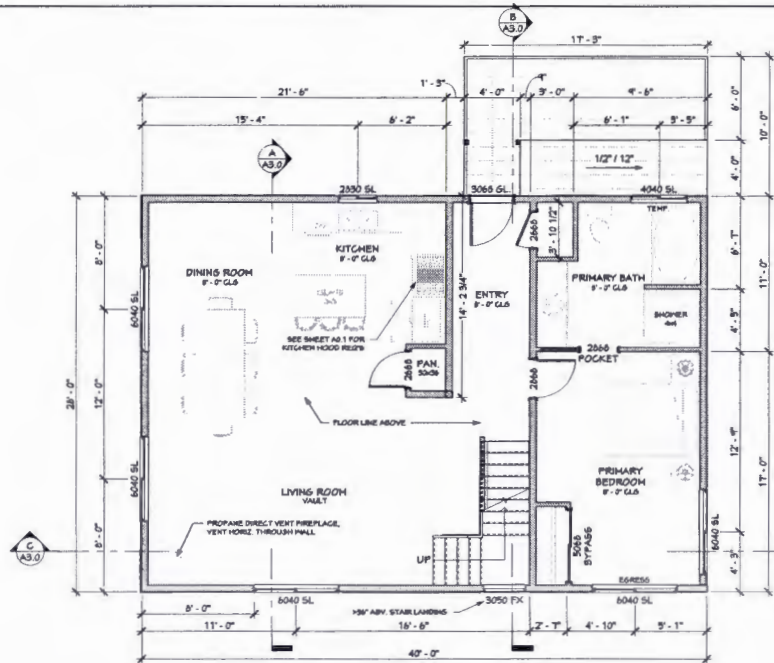
3. GLAZING IN ENCLOSURES FOR OR WALLS/FACING BATHTUBS OR SHOWERS WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 6" A.F.F. AND LESS THAN 60" FROM THE TUB/SHOWERER SHALL BE TEMPERED.
4. GLAZING ADJACENT TO THE STAIRWAY WITHIN 80" HORIZONTALLY OF THE STAIRWAY TREAD SHALL BE TEMPERED.
5. GLAZING ADJACENT TO THE STAIRWAY WHERE THE GLAZING IS LESS THAN 6" A.F.F. AND MEET THE BELOW REQUIREMENTS PER CBC, R308.4:
 - a. A HINGED GLASS DOOR IS WITHIN 24" OF EITHER EDGE OF A DOOR IN THE CLOSED POSITION.
 - b. GLAZING ON A WALL PERPENDICULAR TO THE PLANE OF THE DOOR IN A GLAZED DOOR OR WINDOW WITHIN THE HINGE SIDE OF AN OPENING DOOR.
6. TEMPERED GLASS IS REQUIRED IN AN INDIVIDUAL FIXED OR OPERABLE PANEL THAT MEETS ANY OF THE FOLLOWING CRITERIA:
 - a. THE EXPOSED AREA OF AN INDIVIDUAL PANEL IS LARGER THAN 9 SQUARE FEET.
 - b. THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 13 INCHES ABOVE THE FLOOR.
 - c. THE TOP EDGE OF THE GLAZING IS MORE THAN 36 INCHES ABOVE THE FLOOR.
 - d. ONE OR MORE WALKING SURFACES ARE WITHIN 36 INCHES, MEASURED HORIZONTALLY AND IN A STRAIGHT LINE, OF THE GLAZING.
7. GLAZING IN ALL FIXED AND OPERABLE PANELS OF SPINNING OR SLIDING DOORS:
 - a. GLAZING ADJACENT TO STAIRWAYS OR LANDINGS WHEN THE EXPOSED SURFACE OF THE GLAZING IS LESS THAN 36" ABOVE THE TREAD OF THE ADJACENT PANEL SHALL BE TEMPERED.

1. CLEAR OPENING THAT IS A MINIMUM OF 24" HIGH AND 20" WIDE.
2. NET CLEAR OPENABLE AREA OF NOT LESS THAN 5.7 SQUARE FEET.
 - A. EXCEPTION: GRADE FLOOR OPENINGS OR BELOW GRADE OPENINGS SHALL HAVE A NET CLEAR OPENING AREA OF NOT LESS THAN 5 SQUARE FEET.
3. SILL HEIGHT TO BE A MAXIMUM OF 44" ABOVE THE FLOOR.

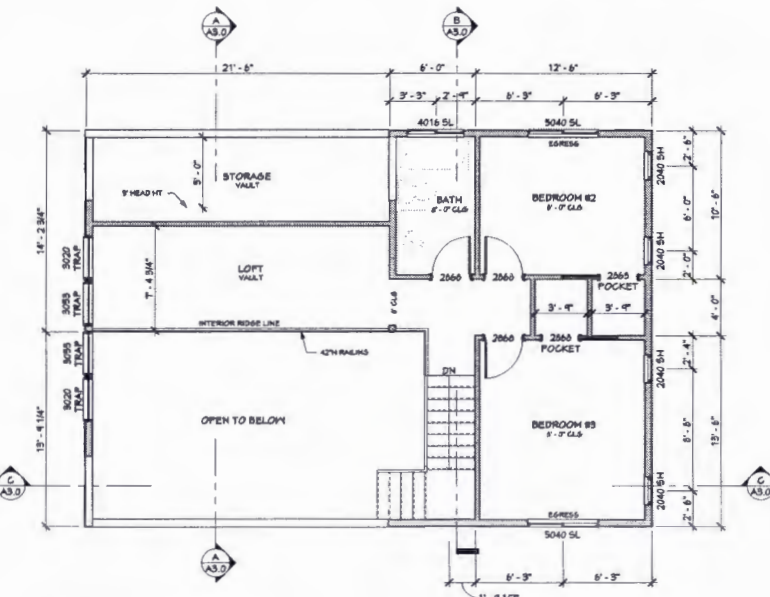


A0.1

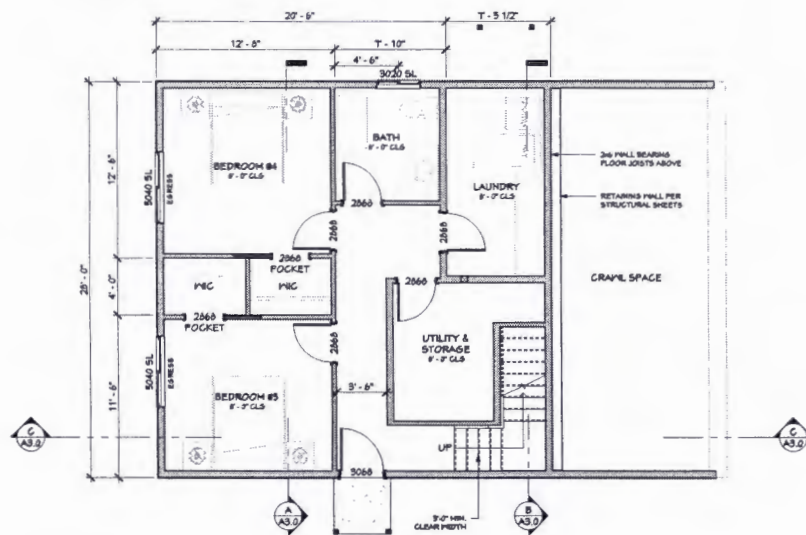
SEE ARCHITECTURAL NOTES ON SHEET A0.1 FOR INFORMATION NOT SHOWN.



2 MAIN LEVEL FLOOR PLAN
1/4" = 1'-0"



1 UPPER LEVEL FLOOR PLAN
1/4" = 1'-0"



3 LOWER LEVEL FLOOR PLAN
1/4" = 1'-0"



ARCHITECTURAL FLOOR PLANS
KUHLE RESIDENCE
1 BULLARD PLACE (APN: 011-030-058)
POLLOCK PINES, CA

REVISIONS



SHEET #
A1.0



ELEVATIONS
 KUHL RESIDENCE
 1 BULLARD PLACE (APN: 011-030-058)
 POLLOCK PINES, CA

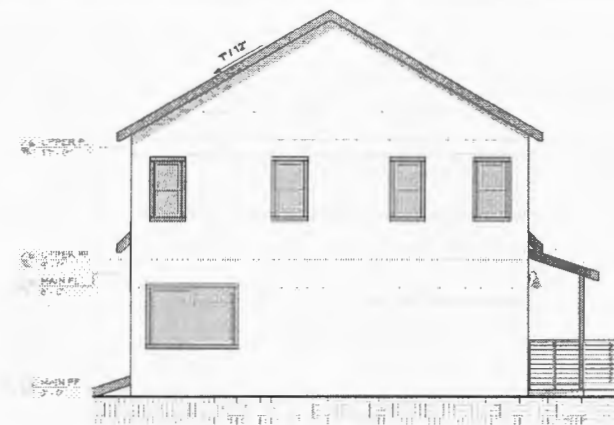
REVISIONS



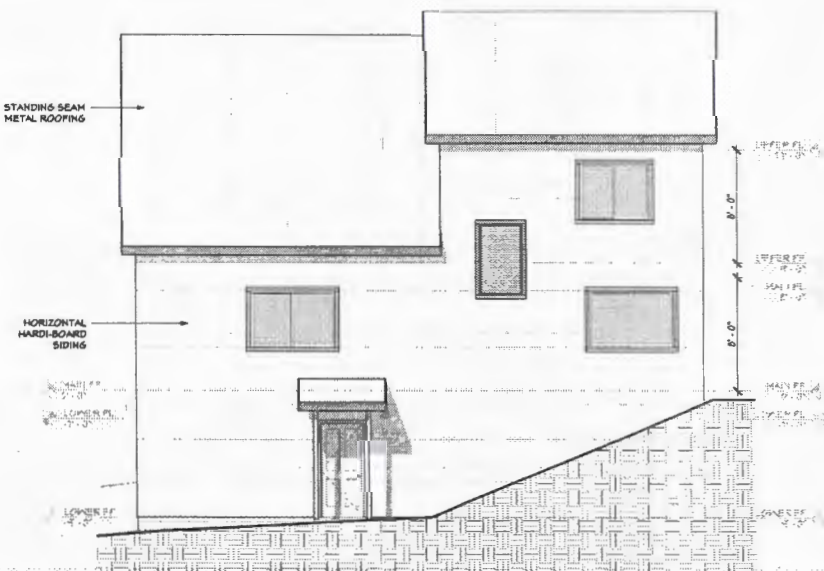
SHEET #
A2.0



FRONT ELEVATION
 1/4" = 1'-0"



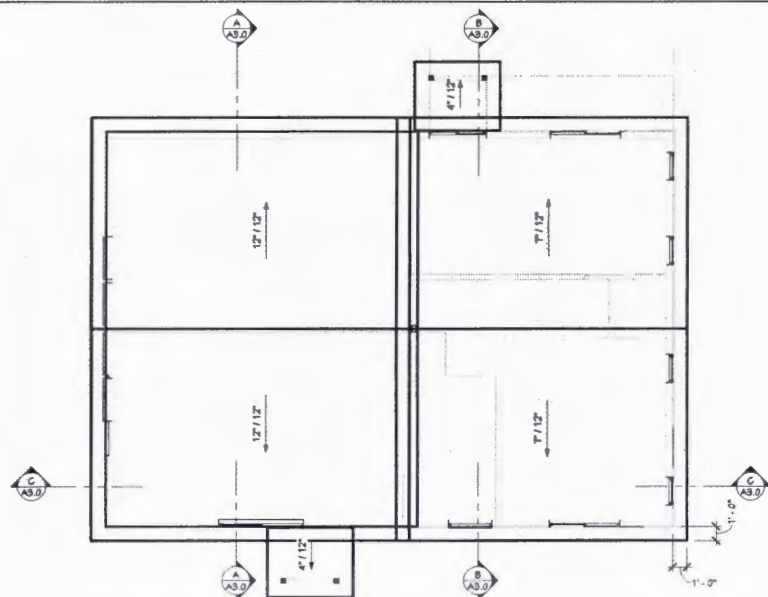
LEFT ELEVATION
 1/4" = 1'-0"



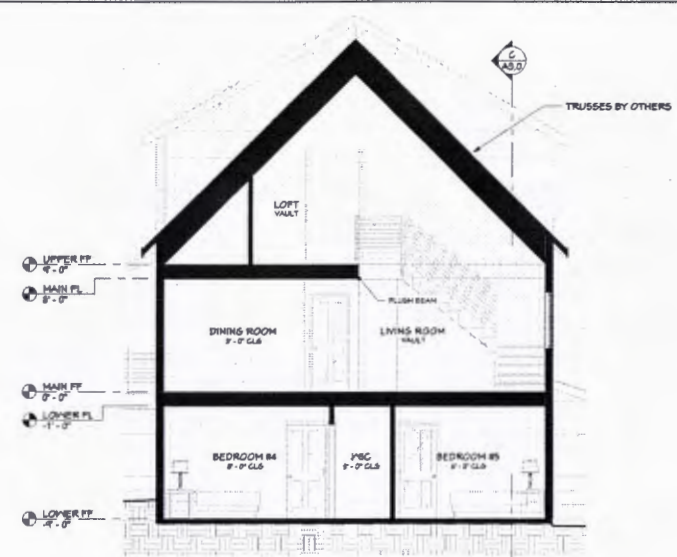
REAR ELEVATION
 1/4" = 1'-0"



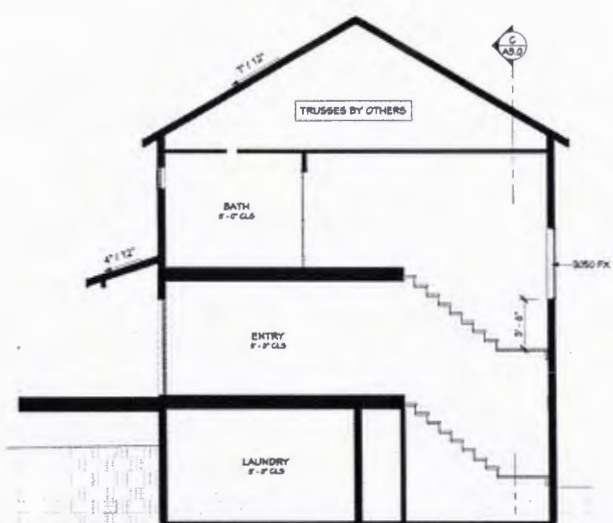
RIGHT ELEVATION
 1/4" = 1'-0"



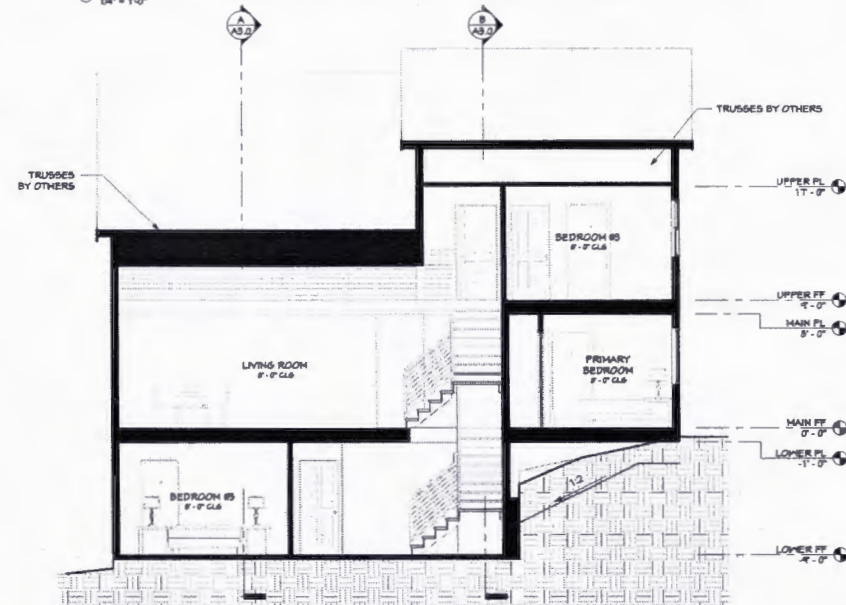
1 ARCHITECTURAL ROOF PLAN
 1/4" = 1'-0"



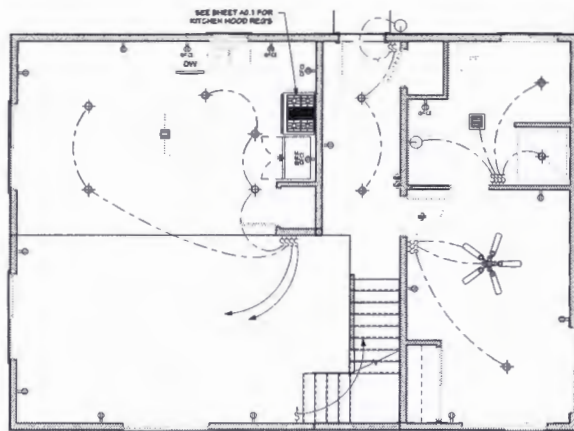
A SECTION A-A
 1/4" = 1'-0"



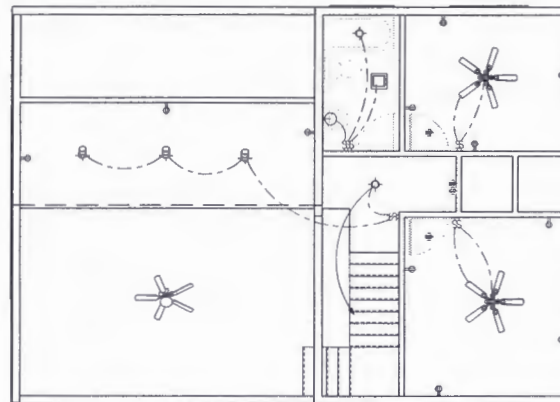
B SECTION B-B
 1/4" = 1'-0"



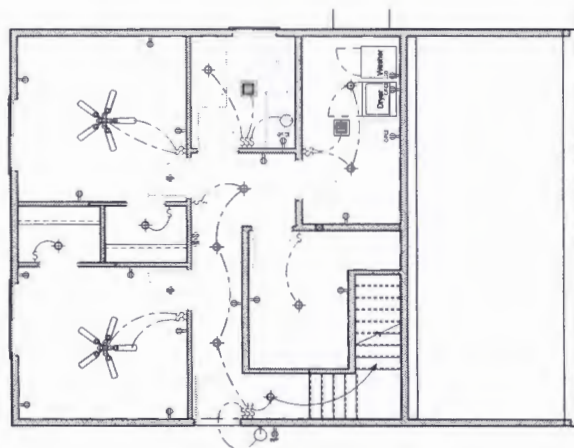
C SECTION C-C
 1/4" = 1'-0"



① MAIN LEVEL ELECTRICAL PLAN
1/4" = 1'-0"



② UPPER LEVEL ELECTRICAL PLAN
1/4" = 1'-0"



③ LOWER LEVEL ELECTRICAL PLAN
1/4" = 1'-0"

ELECTRICAL LEGEND:

- DUPLEX RECEPTACLE
- WEATHERPROOF RECEPTACLE
- 220V RECEPTACLE
- GROUND FAULT CIRCUIT INTERRUPTER
- SWITCH
- 3-WAY SWITCH
- 4-WAY SWITCH
- CEILING MOUNTED LIGHT FIXTURE
- CEILING MOUNTED LIGHT FIXTURE
- CEILING MOUNTED FAN
- PENDANT LIGHT FIXTURE
- WALL MOUNTED LIGHT FIXTURE
- EXHAUST FAN
- SMOKE DETECTOR
- CARBON MONOXIDE DETECTOR

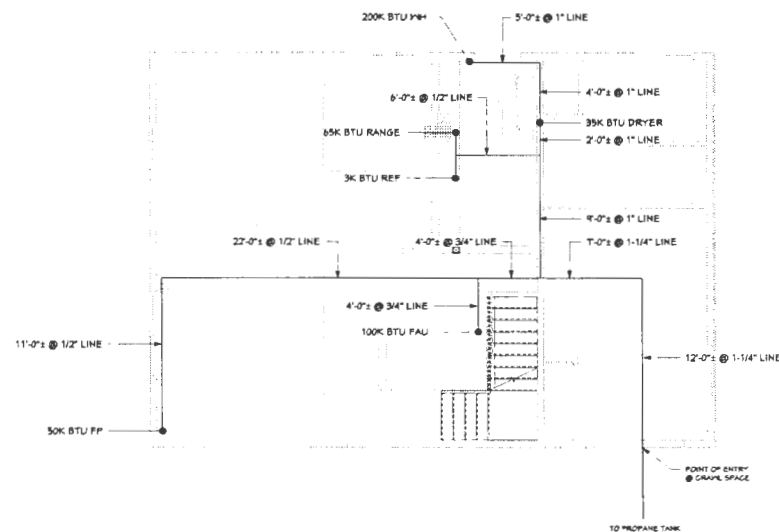
ELECTRICAL NOTES:

- SMOKE DETECTORS / CARBON MONOXIDE DETECTORS PER R314 / R315 SHALL BE INTERCONNECTED, HARDWIRED AND WITH BATTERY BACK-UP. SMOKE DETECTORS TO BE LOCATED AT LEAST 24" FROM RETURN AIR REGISTERS AND AIR DUCTS. SHALL MOUNTED UNITS TO BE WITHIN 12" OF CEILING AND LISTED BY THE STATE FIRE MARSHALL FOR WALL MOUNTING. PROVIDE ONE SMOKE DETECTOR IN EACH SLEEPING AREA.
- CARBON MONOXIDE/SMOKE DETECTORS SHALL BE PROVIDED OUTSIDE EACH SLEEPING AREA AND AT EACH LEVEL OF DWELLING.
- PROVIDE SWITCHED LIGHT AND OUTLET AT ATTIC CRAWL.
- PROVIDE DISCONNECT FOR A/C UNIT.
- ALL 120-VOLT, SINGLE PHASE, 15 - & 20-AMP BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN DWELLING UNIT KITCHEN, DINING ROOM, FAMILY ROOM, LIVING ROOM, PARLORS, LIBRARIES, DEN, BEDROOM, SUNROOMS, REC ROOMS, CLOSETS, LAUNDRY ROOMS, HALLWAYS AND SIMILAR ROOMS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER, COMBINATION TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT.
- AT LEAST ONE LUMINAIRE IN THE BATHROOMS, GARAGES, LAUNDRY ROOMS, AND UTILITY ROOMS SHALL BE CONTROLLED BY A VACANCY SENSOR.
- CEILING FAN LOCATIONS USE ONLY CEC APPROVED ELECTRICAL BOXES RATED FOR SUPPORTING CEILING FANS.
- PROVIDE 30 CFM FOR ALL BATHROOM FANS. FANS MUST BE 3 SONE OR LESS.
- ALL NEW 125-VOLT, 15 AND 20 AMP RECEPTACLES IN THE DWELLING UNIT SHALL BE TAMPER RESISTANT.
- ALL NEW HOT WATER SUPPLY PIPING FROM THE HEATING SOURCE TO THE KITCHEN FIXTURES SHALL BE INSULATED PER CEC SECTION 150.0 (D) 4.
- ALL 15 OR 20 AMP, 125 OR 250 VOLT RECEPTACLES INSTALLED OUTDOORS IN NET LOCATIONS MUST BE LISTED WEATHERPROOF TYPE WHEN THE PLUG IS OR IS NOT INSERTED.
- BRANCH CIRCUITS SERVICING GARAGE RECEPTACLES SHALL NOT SERVE OUTLETS OUTSIDE OF THE GARAGE.
- AT THE A/C EQUIPMENT, ELECTRICAL DISCONNECTS FOR EQUIPMENT SHALL BE WITHIN SIGHT OF THE EQUIPMENT AND NOT OVER 30' FROM THE UNIT.
- A GROUND FAULT CIRCUIT INTERRUPTER (GFCI) IS REQUIRED FOR ALL 15 AND 20-AMP RECEPTACLES INSTALLED IN BATHROOMS, GARAGES, INCLUDING THE GARAGES, INCLUDING THE GARAGE DOOR OPENER RECEPTACLE, ACCESSORY BUILDINGS, OUTDOORS, UNFINISHED BASEMENTS, UNDER-FLOOR AREAS, LAUNDRY, UTILITY, AND KITCHEN COUNTER TOPS AND WITHIN 6' OF A BATH SINK.
- RECEPTACLES SHALL BE INSTALLED SO THAT NO POINT MEASURED HORIZONTALLY ALONG THE FLOOR LINE IN ANY WALL SPACE IS MORE THAN 6' FROM A RECEPTACLE OUTLET. WALL SPACES GREATER THAN 2' IN WIDTH AND UNBROKEN ALONG THE FLOOR LINE BY OPENINGS OR FIREPLACES SHALL BE PROVIDED WITH A RECEPTACLE. THESE RECEPTACLES SHALL BE PROVIDED IN KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, DEN, BEDROOMS, OR SIMILAR ROOMS.
- AT LEAST ONE 120-VOLT, 20-AMPERE BRANCH CIRCUIT SHALL BE PROVIDED TO SUPPLY BATHROOMS & LAUNDRY ROOM OUTLETS WHICH SHALL HAVE NO OTHER OUTLETS.
- KITCHEN EXHAUST HOOD MUST CONFORM TO 2022 TITLE 24 BUILDING ENERGY EFFICIENCY STANDARDS SECTION 150.0 (G) 5, INCLUDING TABLES 150.0-5 & 150.0-4, AND MEETS TESTED TO MEET 2022 REFERENCE APPENDICES R4.1.

LIGHTING REQUIREMENTS:

NOTE: ALL NEW LIGHTING TO BE LED, U.O.N.

- ALL INSTALLED LUMINAIRES SHALL BE HIGH-EFFICACY IN ACCORDANCE W/ TABLE 150.0-A.
- ALL LUMINAIRES REQUIRED TO HAVE LIGHT SOURCE COMPLIANT W/ REFERENCE JOINT APPENDIX JAS, EXCEPT HALLWAYS & CLOSETS OVER 70 W, SHALL BE CONTROLLED BY DIMMERS OR VACANCY SENSORS. THIS APPLIES TO ALL 60-24 LED AND RECESSED LUMINAIRES.)
- IN BATHROOMS, GARAGES, LAUNDRY ROOMS, AND UTILITY ROOMS, AT LEAST ONE LUMINAIRE IN EACH OF THESE SPACES SHALL BE CONTROLLED BY A VACANCY SENSOR.
- OUTDOOR LIGHTING: ALL OUTDOOR LIGHTING SHALL BE CONTROLLED BY A MANUAL ON AND OFF SWITCH THAT DOES NOT OVERRIDE TO ON AND ONE OF THE FOLLOWING: CONTROLLED BY PHOTOCELL AND MOTION SENSOR, PHOTO CONTROL AND AUTOMATIC SWITCH CONTROL, ASTRONOMICAL TIME CLOCK, OR ENERGY MANAGEMENT CONTROL SYSTEM. 150.0 (B).
- LUMINAIRES RECESSED INTO CEILING SHALL MEET ALL OF THE FOLLOWING PER 150.0 (B)(3): LISTED FOR ZERO CLEARANCE INSULATION, LABELED THAT CERTIFIES THE LUMINAIRE IS AIRTIGHT WITH A LEAKAGE LESS THAN 2 CFM AT 75 PASCALS, SEALED WITH A GASKET OR CAULK, ALLOW REPLACEMENT AND MAINTENANCE TO BE READILY ACCESSIBLE FROM BELOW THE CEILING WITHOUT CUTTING HOLES IN THE CEILING. SHALL NOT CONTAIN SCREW BASE SOCKETS, AND SHALL CONTAIN LIGHT SOURCES THAT COMPLY WITH JAS.
- UNDER CABINET LIGHTING SHALL BE SWITCHED SEPARATELY THAN FROM OTHER LIGHTING SYSTEM. 150.0 (D).



1 GAS PIPING PLAN
1/4" = 1'-0"

WATER HEATER NOTES:

1. WATER HEATER SHALL HAVE ISOLATION VALVES ON BOTH THE COLD WATER SUPPLY AND THE HOT WATER PIPE LEAVING THE WATER HEATER, AND HOSE BIBS OR OTHER FITTINGS ON EACH VALVE FOR FLUSHING THE WATER HEATER WHEN THE VALVES ARE CLOSED.
2. PROVIDE A WATER-TIGHT DRIP PAN OF CORROSION-RESISTANT MATERIALS BENEATH THE WATER HEATER WITH A 3/4" DRAIN TO AN APPROVED LOCATION. A CONDENSATE DRAIN THAT IS A MAXIMUM OF 2" HIGHER THAN THE BASE OF THE INSTALLED WATER HEATER THAT ALLOWS NATURAL DRAIN WITHOUT PUMP ASSISTANCE SHALL BE INSTALLED.
3. A CATEGORY III, IV OR A TYPE B VENT WITH A STRAIGHT PIPE BETWEEN THE OUTSIDE TERMINAL AND THE SPACE WHERE THE WATER HEATER IS LOCATED SHALL BE INSTALLED.
4. TANK TYPE WATER HEATER REQUIRES 2 SEISMIC STRAPS, ONE TRAP WITHIN THE UPPER 1/3 AND THE OTHER WITHIN THE LOWER 1/3 OF THE WATER HEATER. THE LOWER STRAP SHALL NOT BE WITHIN 4" OF THE CONTROLS. CPC 501.2
5. STORAGE TYPE WATER HEATER SHALL BE PROVIDED WITHIN AN APPROVED LISTED, ADEQUATELY SIZED COMBINATION PRESSURE AND TEMPERATURE RELIEF VALVE WHERE A PRESSURE REGULATOR IS INSTALLED, AN APPROVED LISTED EXPANSION TANK OR OTHER DEVICE SHALL INSTALLED TO CONTROL INTERMITTENT THERMAL EXPANSION. CPC 605.3 & 605.5
6. WATER HEATERS INSTALLED IN THE GARAGE SHALL BE INSTALLED SO THAT ALL BURNERS AND BURNER-IGNITION DEVICES ARE LOCATED NOT LESS THAN 18" ABOVE THE FLOOR UNLESS LISTED AS FLAMMABLE VAPOR IGNITION RESISTANT. SUCH APPLIANCES SHALL BE PROTECTED FROM AUTO IMPACT. CPC 501.13 & 501.13.1
7. WATER HEATERS AND OTHER BURNER & BURNER-IGNITION APPLIANCES THAT ARE INSTALLED IN THE GARAGE AND ADJACENT SPACES THAT OPEN TO THE GARAGE SHALL NOT BE LOCATED NOT LESS THAN 18 INCHES ABOVE THE FLOOR AND SHALL CONFORM WITH ONE OF THE BELOW (PER CGC 305.1.1):
 - A. SHALL BE GUARDED AGAINST DAMAGE BY A PROTECTIVE BARRIER
 - B. SHALL BE ELEVATED
 - C. SHALL BE LOCATED OUT OF THE NORMAL PATH OF VEHICLES

GAS PIPING NOTES:

TOTAL DEVELOPED LENGTH OF PIPE = 236'-0"
MOST REMOTE OUTLET = 256'-0"
PIPING MATERIAL = SCHEDULE 40 METALLIC PIPE
TOTAL BTU = 495K BTU

MAXIMUM CAPACITY OF PIPE IN THOUSANDS OF BTU PER HOUR FOR GAS PRESSURE OF 11 INCHES WATER COLUMN AND A PRESSURE DROP OF 0.5 INCH WATER COLUMN (BASICALLY BETWEEN SINGLE OR SECOND STAGE LOW PRESSURE REGULATOR) AND APPLIANCE (BASED ON A 1.0 SPECIFIC GRAVITY GAS)

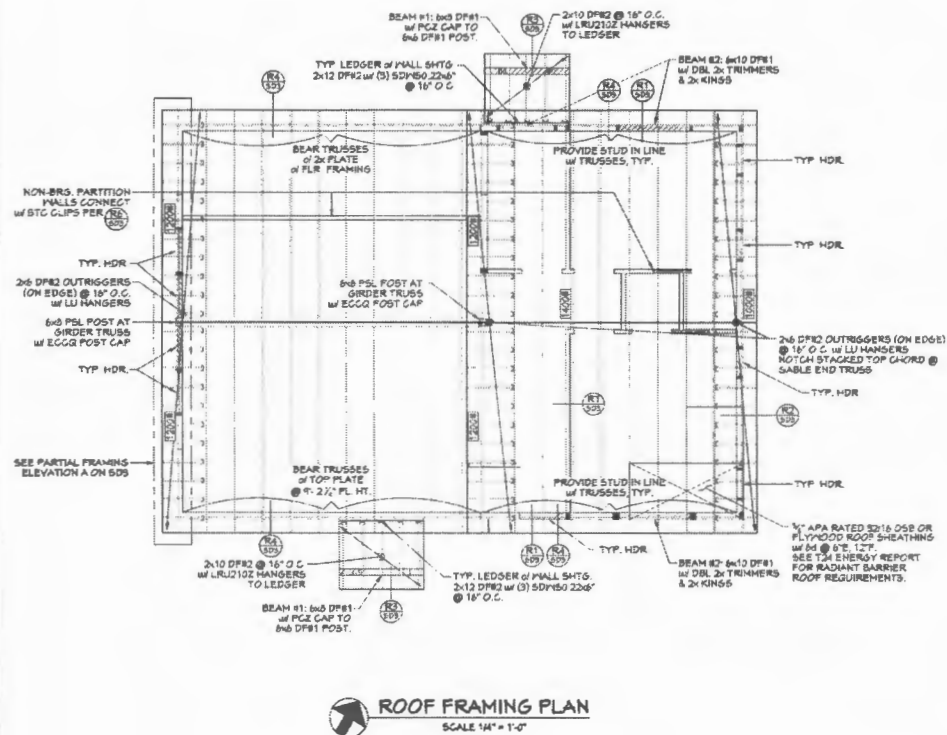
Pipe Length (Feet)	Nominal Pipe Size, Schedule 40									
	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"
10	8,822	8,822	1,048	1,38	1,81	3,087	3,087	3,948	4,808	4,808
20	201	408	1,146	2,352	3,525	4,789	14,136	20,000	26,016	26,016
30	208	413	1,180	2,417	3,621	4,888	14,448	20,320	26,336	26,336
40	193	374	1,106	2,299	3,496	4,741	14,153	19,940	25,956	25,956
50	177	337	1,041	2,181	3,366	4,616	13,858	19,645	25,661	25,661
60	162	300	976	2,063	3,241	4,491	13,563	19,350	25,366	25,366
70	147	263	911	1,945	3,116	4,366	13,268	19,055	25,071	25,071
80	132	226	846	1,827	2,991	4,241	12,973	18,760	24,776	24,776
90	117	189	781	1,709	2,866	4,116	12,678	18,465	24,481	24,481
100	102	152	716	1,591	2,741	3,991	12,383	18,170	24,186	24,186
120	74	115	512	1,167	1,996	2,996	11,311	16,741	22,616	22,616
150	51	81	360	846	1,416	2,166	8,461	12,461	16,616	16,616
200	36	57	221	581	981	1,381	5,811	8,461	11,616	11,616
250	27	43	166	436	736	1,036	4,361	6,461	9,166	9,166
300	21	34	131	341	581	811	3,411	5,011	7,166	7,166
400	14	23	86	226	386	536	2,261	3,361	4,861	4,861



GAS PIPING PLAN
KUHLE RESIDENCE
1 BULLARD PLACE (APN: 011-030-058)
POLLOCK PINES, CA

REVISIONS

SHEET #
G1.0



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

ROOF FRAMING NOTES:

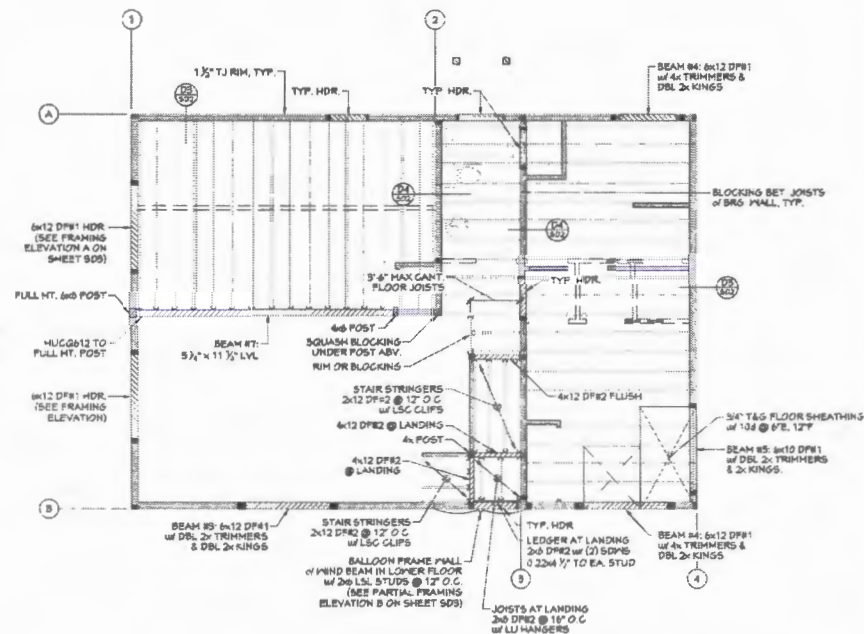
1. NAIL ROOF SHEATHING TO DRAG TRUSS w/ 6d @ 6" O C

TYPICAL ROOF FRAMING U.O.N.

MANUFACTURED TRUSSES DESIGNED BY
OTHERS. SEE TRUSS SPECIFICATIONS FOR
INFORMATION NOT SHOWN

TYPICAL HEADER U.O.N.

USE DBL 2x TRIMMERS EA SIDE FOR HEADERS SPANNING > 5'-0"



UPPER LEVEL FLOOR FRAMING PLAN
SCALE 1/4" = 1'-0"

WALL LEGEND

MAIN LEVEL WALLS
UPPER LEVEL WALLS

TYPICAL HDR @ MAIN LEVEL U.O.N.

6x10 DFB1 w/ 2x TRIMMERS & 2x KINGS
USE DBL 2x TRIMMERS EA SIDE FOR HEADERS
SPANNING > 9'-0"

TYPICAL FLOOR JOISTS U.O.N.

11 1/2" TJI360 @ 16" O.C.
w/ IUS HANGERS WHERE SHOWN.
OK TO USE TJI110s FOR SPANS < 15'-0"



SHEET #:

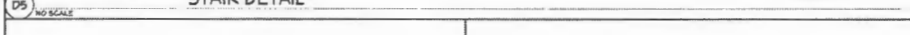
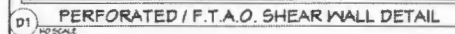
S3.0

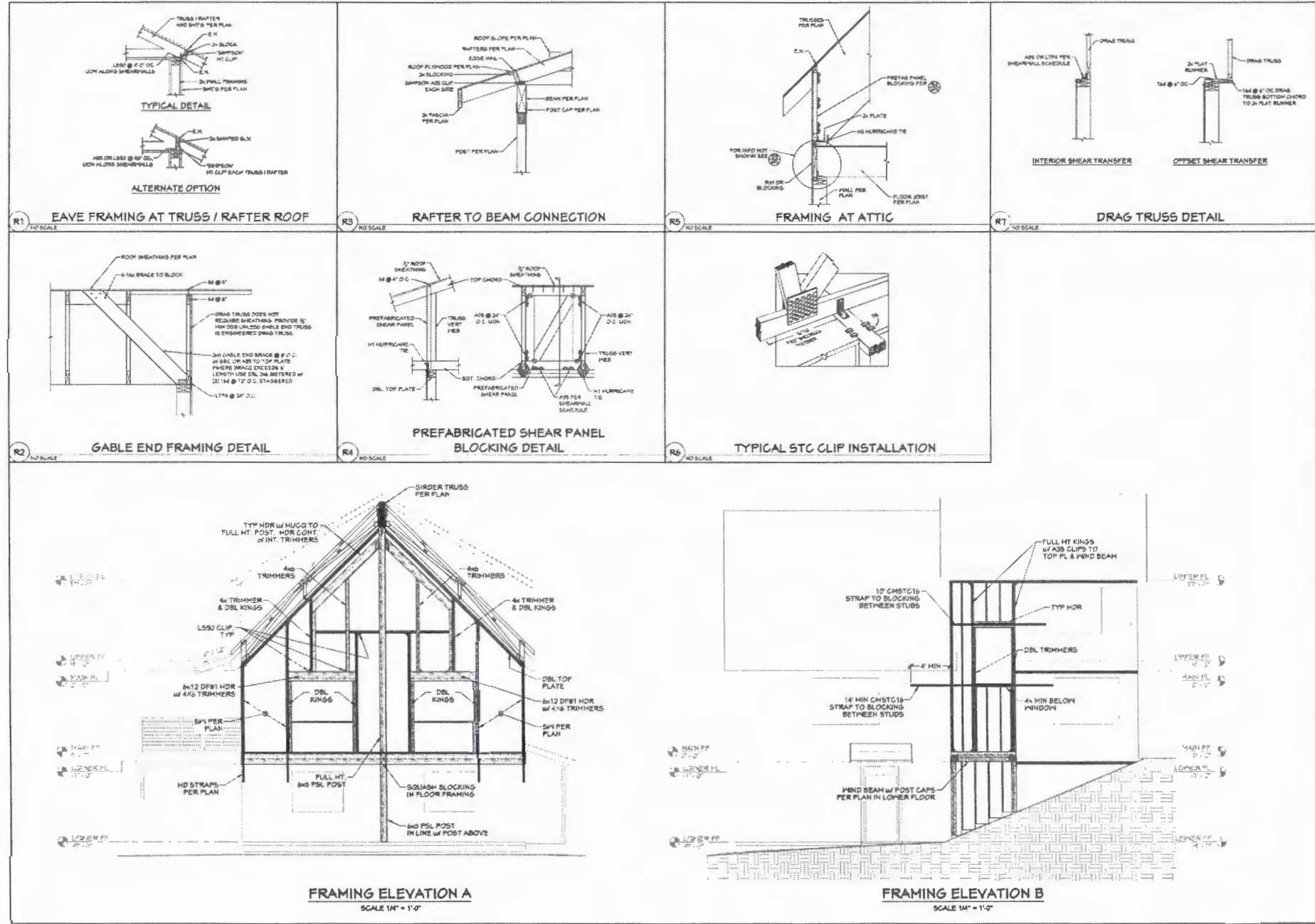


SHEET #.
SD1

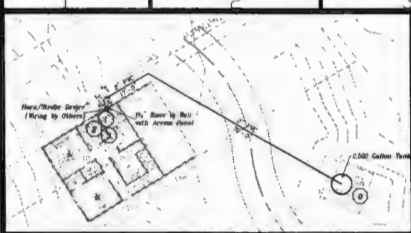


25-0907 C 11 of 16

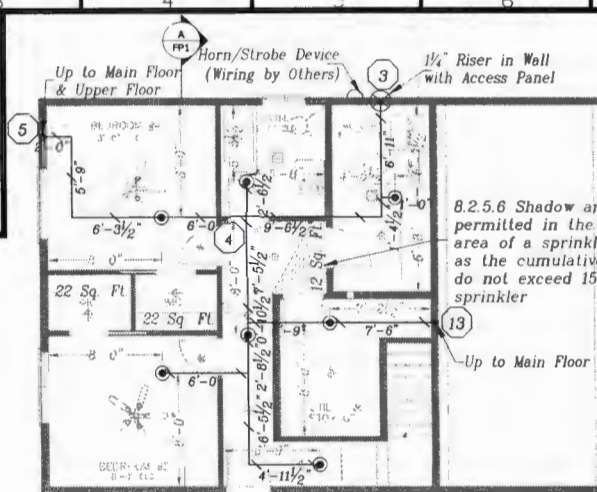




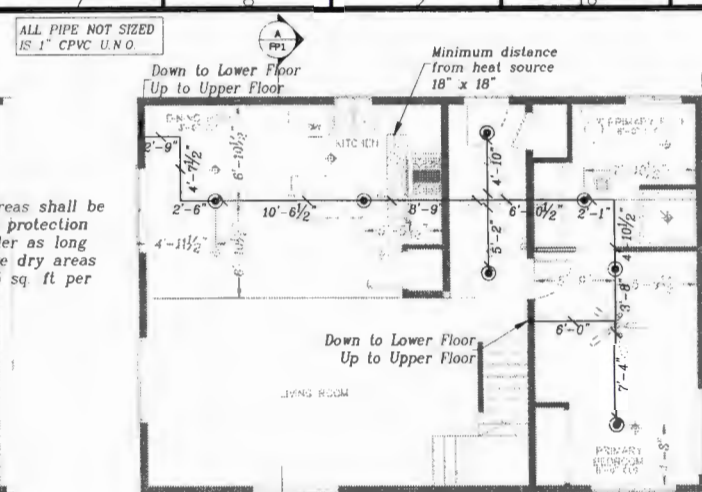
25-0907 C 14 of 16



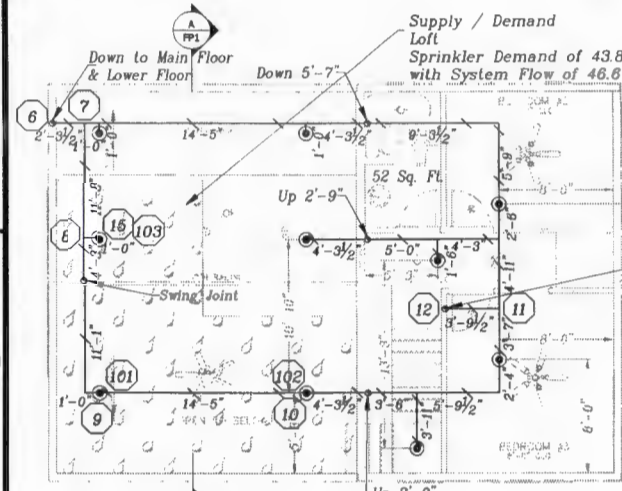
UTILITY PLAN HYDRAULIC REFERENCE ONLY



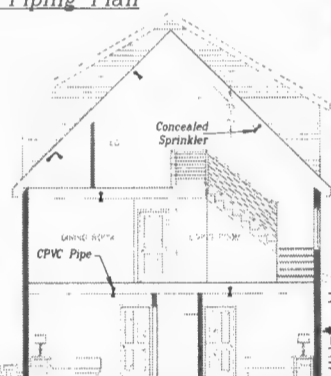
Lower Floor Piping Plan
Scale 1/4" = 1'-0"



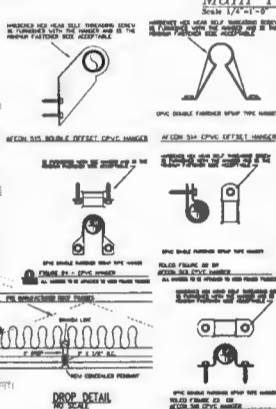
Main Floor Piping Plan
Scale 1/4" = 1'-0"



Upper Floor Piping Plan
Scale 1/4" = 1'-0"



Cross Section A
Scale 3/8" = 1'-0"



Riser Detail
All smoke detectors to be wired on new riser flow switch



SITE AND VICINITY MAP

RESIDENTIAL FIRE SPRINKLER NOTES

1. ALL MATERIALS AND METHODS SHALL CONFORM TO NFPA 13B (2002 EDITION), 2003 CALIFORNIA RESIDENTIAL CODE AND 2003 CALIFORNIA FIRE CODE.
2. NOTE COMPLIANCE WITH EL SERRANO HILLS FIRE DEPARTMENT FIRE PROTECTION STANDARDS (H-DRY, INSTALLATION OF RESIDENTIAL FIRE SPRINKLER SYSTEMS).
3. OCCUPANCY - SINGLE FAMILY DWELLING.
4. SYSTEM TO BE INSTALLED, TESTED & BRANCHED IN ACCORDANCE WITH NFPA 13B (2002 EDITION).
5. ALL MATERIALS TO BE NEW & UL OR FM APPROVED.
6. ALL PIPING AND FITTINGS SHALL BE UL LISTED CPVC PIPE SYSTEM.
7. ACTUAL LOCATIONS OF PIPING MAY VARY DUE TO FIELD CONDITIONS.
8. HANGER LOCATIONS ARE APPROXIMATE AND SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13B (2002 EDITION). THIS CONTRACT DOES NOT INCLUDE ANY INTERVIEW OR SERVICE TO IMPROVE THE STRUCTURAL INTEGRITY OF THE BUILDING AND ITS ABILITY TO CARRY THE LOAD OF THE FIRE SPRINKLER SYSTEM.
9. PROTECTION OF SPRINKLERS FROM PAINT BY OTHERS ONLY.
10. SENSU SPRINKLERS WITH A K-FACTOR MAY BE LOCATED 8 FT FROM WALLS OR 16 FT APART AND 8 FT BETWEEN THE SPRINKLER FOR FLAT AND SLOPED CEILING UP TO 10 PER HYPOTHETICAL CALCULATIONS.
11. THE SPRINKLER SYSTEM SHALL BE VISUALLY INSPECTED AND HYDRAULICALLY TESTED AT 250 PSI FOR 30 MINUTES AND SYSTEM SHALL HAVE A FINAL INSPECTION PRIOR TO THE BUILDING DEPARTMENT'S FINAL PENETRATING OF FIRE RATED WALLS TO BE SEPALED TO MOUNTAIN WALL RATING.
12. ALL ELECTRICAL WORK BY OTHERS ONLY.

The design of this plan/system is owned by Accurate Fire Protection of CA Inc. and all system material and labor will be installed by Accurate Fire Protection of CA Inc. At no time can another C-16 and or plumbing company use this set of plans for their installation, all rights reserved.

Accurate Fire Protection
8880 Bradshaw Road
Elk Grove, Ca. 95624
Office Ph: (916) 381-4101
CA Lic. # C16-827055

Fire Sprinkler Piping Plan Details and Notes

Kuhl Residence
1 Bullard Place
Pollock Pines, CA



REVISION	DESCRIPTION
1	ISSUED FOR PERMITS
2	ISSUED FOR PERMITS
3	ISSUED FOR PERMITS
4	ISSUED FOR PERMITS
5	ISSUED FOR PERMITS
6	ISSUED FOR PERMITS
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11	ISSUED FOR PERMITS
12	ISSUED FOR PERMITS
13	ISSUED FOR PERMITS
14	ISSUED FOR PERMITS