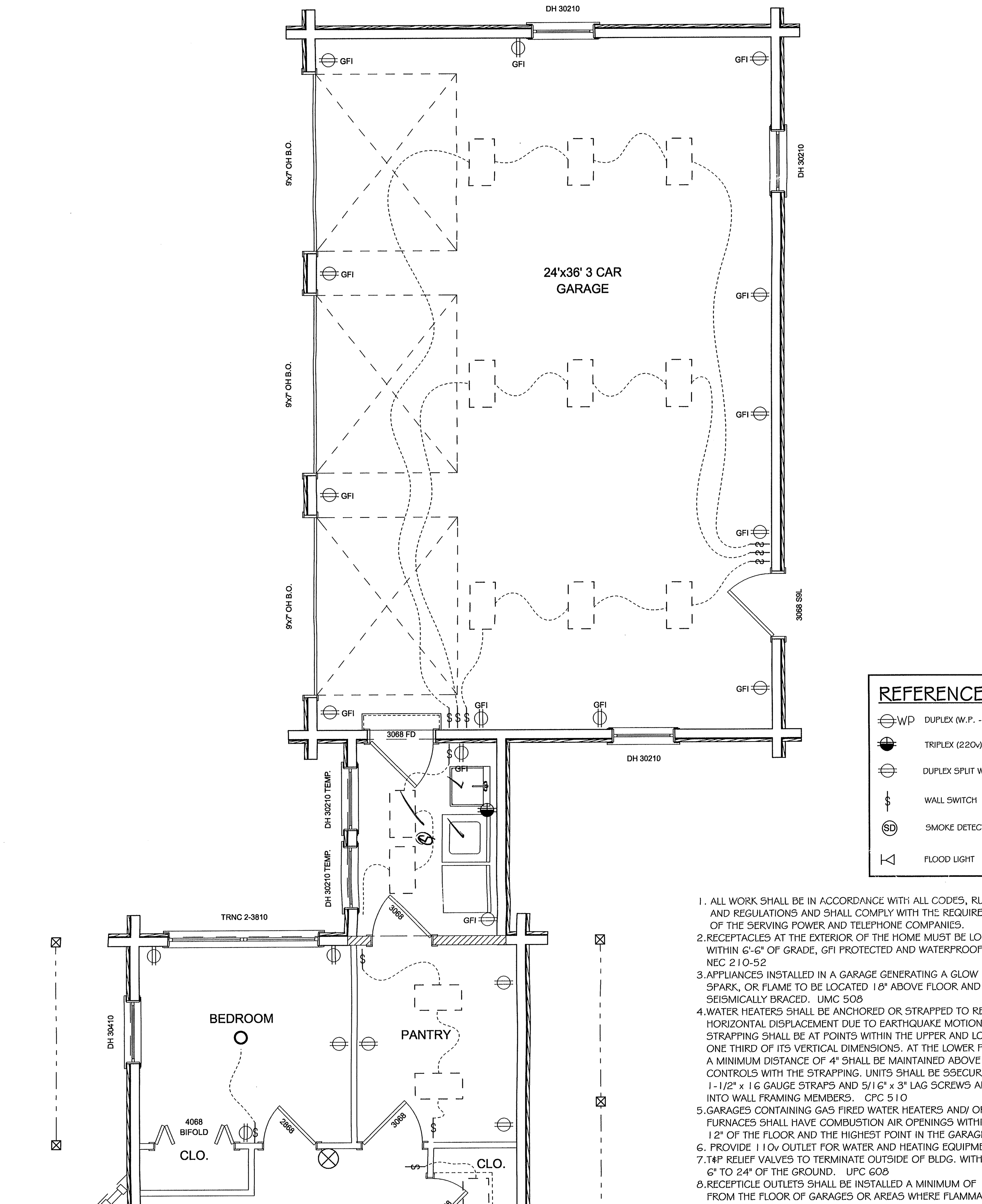

FIRST FLOOR ELECTRICAL PLAN

REFERENCE SYMBOLS:

WP	DUPLEX (W.P. - WEATHERPROOF)		CEILING MOUNTED LIGHT FIXTURE
	TRIPLEX (220v)		WALL MOUNTED LIGHT FIXTURE
	DUPLEX SPLIT WIRE		RECESSED LIGHT FIXTURE
$	WALL SWITCH		EXHAUST FAN
SD	SMOKE DETECTOR		EXHAUST FAN AND LIGHT
	FLOOD LIGHT		FLUORESCENT FIXTURE
	CEILING FAN		200 AMP PANEL

1. ALL WORK SHALL BE IN ACCORDANCE WITH ALL CODES, RULES AND REGULATIONS AND SHALL COMPLY WITH THE REQUIREMENTS OF THE SERVING POWER AND TELEPHONE COMPANIES.
2. RECEPTACLES AT THE EXTERIOR OF THE HOME MUST BE LOCATED WITHIN 6'-6" OF GRADE, GFI PROTECTED AND WATERPROOF PER NEC 210-52
3. APPLIANCES INSTALLED IN A GARAGE GENERATING A GLOW SPARK, OR FLAME TO BE LOCATED 18" ABOVE FLOOR AND SEISMICALLY BRACED. UMC 508
4. WATER HEATERS SHALL BE ANCHORED OR STRAPPED TO RESIST HORIZONTAL DISPLACEMENT DUE TO EARTHQUAKE MOTION. STRAPPING SHALL BE AT POINTS WITHIN THE UPPER AND LOWER ONE THIRD OF ITS VERTICAL DIMENSIONS. AT THE LOWER POINT A MINIMUM DISTANCE OF 4" SHALL BE MAINTAINED ABOVE THE CONTROLS WITH THE STRAPPING. UNITS SHALL BE SSECURED BY 1-1/2" x 16 GAUGE STRAPS AND 5/16" x 3" LAG SCREWS ANCHORED INTO WALL FRAMING MEMBERS. CPC 510
5. GARAGES CONTAINING GAS FIRED WATER HEATERS AND/ OR FURNACES SHALL HAVE COMBUSTION AIR OPENINGS WITHIN 12" OF THE FLOOR AND THE HIGHEST POINT IN THE GARAGE.
6. PROVIDE 110v OUTLET FOR WATER AND HEATING EQUIPMENT
7. T&P RELIEF VALVES TO TERMINATE OUTSIDE OF BLDG. WITHIN 6" TO 24" OF THE GROUND. UPC 608
8. RECEPTICLE OUTLETS SHALL BE INSTALLED A MINIMUM OF 18" FROM THE FLOOR OF GARAGES OR AREAS WHERE FLAMMABLE VAPORS MAY EXIST.
9. ALL ELECTRICAL OUTLETS LOCATED ON THE OPPOSITE SIDE OF RATED FIRE WALLS SHALL HAVE A MIN. 24" HORIZONTAL SEPERATION. NEC 4304E-2
10. PROVIDE ACCESS AND CLEARANCE AT WATER HEATER UPC 1311
11. PROVIDE GFI PROTECTION FOR RECEPTACLES IN THE BATHROOM, KITCHEN & GARAGE. GFI PROTECTION IS REQUIRED FOR ALL KITCHEN COUNTER RECEPTACLES. NEC 210-8(1,2&6)
12. AT THE DISHWASHER AND GARBAGE DISPOSAL. AN AIR-GAP IS TO BE INSTALLED TO CONFORM w/ UBC 608A.
13. A NON-REMOVABLE BACK FLOW PREVENTION DEVICE IS TO BE PROVIDED AT ALL EXT. ON HOSE BIBS. UPC 603
14. DROP-EARED FITTINGS SHALL BE INSTALLED ON ALL FIXTURES AND HOSE BIB OUTLETS AND SECURELY FASTENED TO ADEQUATE BACKING WITH SCREWS.
15. DRAINAGE SYSTEM SHALL BE TESTED WITH A MINIMUM 8'-0" OF HEAD ABOVE FLOOR LEVEL. SECOND FLOOR TUBS SHALL BE TESTED TO A LEVEL ABOVE TUB OVERFLOW.
16. "P" TRAPS INSTALLED BETWEEN FLOORS AND CONCEALED INSIDE WALLS SHALL HAVE A SOLID CONNECTION IN THE TRAP SEAL.
17. ALL WATER SUPPLY PIPING FOR A BUILDING SUPPLY FOR RESIDENTIAL STRUCTURES SHALL BE A MINIMUM OF 1"
18. WATER CLOSET TO BE MAX. 1.6 GAL. PER FLUSH PER CALIF. HEALTH AND SAFETY CODE.
19. SHOWER AND TUB-SHOWER COMBINATIONS SHALL BE PROVIDED WITH INDIVIDUAL CONTROL VALVES OF THE PRESSURE BALANCE OR THE THERMOSTATIC MIXING VALVE TYPE UPC 420.0
20. THE DRYER EXAUST TO BE SMOOTH METAL DUCT EXTENDING TO THE OUTSIDE AND EQUIPPED WITH A BACK DRAFT DAMPER. UMC 504, 908.
21. PROVIDE SWITCHED OUTLETS 18" ABOVE FLOOR FOR GARBAGE DISPOSAL.
22. CLOSET LIGHTING SHALL BE 18" MIN. FROM COMBUSTABLES MEASURED BOTH VERTICALLY AND HORIZONTALLY.
23. INSTALL SMOKE DETECTORS ON PERMANENTLY WIRED CIRCUIT (NOT GFI) AT LOCATION INDICATED ON THE ELECTRICAL PLAN. ALL SMOKE DETECTORS SHALL BE HARDWIRED AND EQUIPPED WITH A BATTERY BACK-UP, PER SECTION 310.9.1,CBC. ** ALL SMOKE DETECTORS SHALL BE INTERCONNECTED TO ACTIVATE ALL ALARMS IN DWELLING.
24. USE ONLY CEC CERTIFIED APPLIANCES, SHOWER HEAD, AND FAUCETS.
25. ALL INSTALLATION INSTRUCTIONS FOR ALL LISTED EQUIPMENT SHALL BE PROVIDED TO THE FIELD INSPECTOR AT THE TIME OF INSPECTION. UMC 303.1
26. TERMINATION OF ALL ENVIRONMENTAL AIR DUCTS SHALL BE MINIMUM OF 3'-0" FROM PROPERTY LINES OR ANY OPENINGS IN THE BUILDING (i.e. DRYERS, BATHS AND UTILITY FANS, ETC. MUST BE 3'-0" AWAY FROM DOORS, WINDOWS, OPENING SKYLIGHTS OR ATTIC VENTS. UMC 504.6
27. FACTORY-MADE FLEXIBLE AIR DUCTS ARE TO BE INSTALLED ACCORING TO THEIR INSTALLATION INSTRUCTIONS AND STANDARDS SET BY THE CODE AND ARE TO USE UL 1810 TAPE. UMC 601.2
28. CONDUCTOR WIRES WITH AN ISULATED NEUTRAL AND A FOUR-PRONG OUTLET ARE REQ'D. FOR DRYERS AND COOKING UNITS. NEC 250-60.
29. SUPPLY TWO SMALL APPLIANCE BRANCH CIRCUITS FOR THE KITCHEN THAT ARE LIMITED TO SUPPLYING WALL AND COUNTER SPACE OUTLETS. THEY CANNOT SERVE THE DINING ROOM, OUTSIDE PLUGS, RANGE HOOD DISPOSALS, DISHWASHERS OR MICROWAVES-ONLY THE REQUIRED COUNTER-TOP/ WALL OUTLETS INCLUDING THE REFRIDGEERATOR NEC 210-52(b).
30. PROVIDE A DEDICATED 20 AMP CIRCUIT TO SERVE THE BATHROOM OUTLETS. ALSO PROVIDE A DEDICATED 20 AMP CIRCUIT TO SERVE THE LAUNDRY OUTLETS. THESE CIRCUITS SHALL SERVE NO OTHER OUTLETS. NEC 210-11(2),(3)
31. PROVIDE 20'-LONG CONCRETE ENCASED ELECTRODE IN PERIMETER FOOTING. NEC 250-81(c)
32. PROVIDE EAVE MOUNTED WP/GFI OUTLETS FOR OUTSIDE CHRISTMAS LIGHTS AT BUILDING FRONT AND REAR. SUCH OUTLETS TO BE SWITCH OPERATED.
33. ALL INCANDESCENT FIXTURES RECESSED INTO INSULATED AREAS SHALL BE APPROVED FOR ZERO CLEARANCE INSULATION COVER.
34. ALL BRANCH CIRCUITS SUPPLYING 125-v, SINGLE-PHASE, 15-20 AMP OUTLETS IN BEDROOMS SHALL BE PROTECTED BY ARC-FAULT CIRCUIT INTERRUPTERS. NEC210-12(b)

NOTE: 1
WA. STATE VENTILATION & INDOOR AIR QUALITY CODE 2003

CONSTRUCTION MUST COMPLY WITH THE "PRESCRIPTIVE" VENTILATION REQUIREMENTS VIAQC 303 OR SUBMIT ENGINEERING CALCULATIONS TO SHOW COMPLIANCE WITH VIAQC 302.

INCOMING AIR:

1. OUTDOOR AIR IS REQUIRED TO BE SUPPLIED TO ALL HABITABLE ROOMS FOR ALL WHOLE HOUSE VENTILATION SYSTEMS.
2. IF "INTEGRATED FORCED-AIR VENTILATION" SYSTEM IS USED IT SHALL HAVE AN OUTDOOR AIR INLET. PROVIDE OUTDOOR AIR INLET DUCT CONNECTING TO THE RETURN AIR PLENUM OF THE FORCED AIR SYSTEM INCLUDING DAMPER. (VIAQC 303.4.2.1)
3. IF INDIVIDUAL ROOM OUTDOOR AIR INLETS ARE USED PROVIDE WINDOW PORTS OR OUTDOOR AIR INLETS WITH SCREENED AND SECURE OPENINGS NOT LESS THAN FOUR SQUARE INCHES. (VIAQC 303.4.1.5-c)

OUT GOING AIR:

4. PROVIDE WHOLE HOUSE VENTILATION SYSTEM PER (VIAQC 303.4).
   - SINGLE WHOLE HOUSE EXHAUST FAN ON TIMER.
   - SINGLE WHOLE HOUSE EXHAUST FAN INTEGRATED w/ FORCED-AIR SYSTEM.
   - COMBINED SOURCE SPECIFIC FANS FOR WHOLE HOUSE EXHAUST INTEGRATED w/ FORCED-AIR SYSTEM.
5. PROVIDE SOURCE SPECIFIC FANS USING (VIAQC TABLE 3-1).
6. OUTDOOR AIR INLETS SHALL NOT BE PLACED IN THE FOLLOWING LOCATIONS: (VIAQC 303.4.2.4).
   a. CLOSER THAN 10' FROM AN APPLIANCE VENT, UNLESS SUCH VENT OUTLET IS 3' ABOVE INLET.
   b. WHERE IT WILL PICK UP OBJECTIONABLE ODORS, FUMES OR FLAMMABLE VAPORS.
   c. A HAZARDOUS OR UNSANITARY LOCATION.
   d. A ROOM OR SPACE HAVING ANY FUEL-BURNING APPLIANCES.

APPROVED

No.	REVISIONS	DATE
6		
5		
4		
3		
2		
1	PLAN CHECK # 1	8/27/07

0 1" 2" 3"

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Scale	1/4"= 1'-0"
Date	3-20-07
Order No.	0728004-630
Cad File	Pfeifer.pln

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