

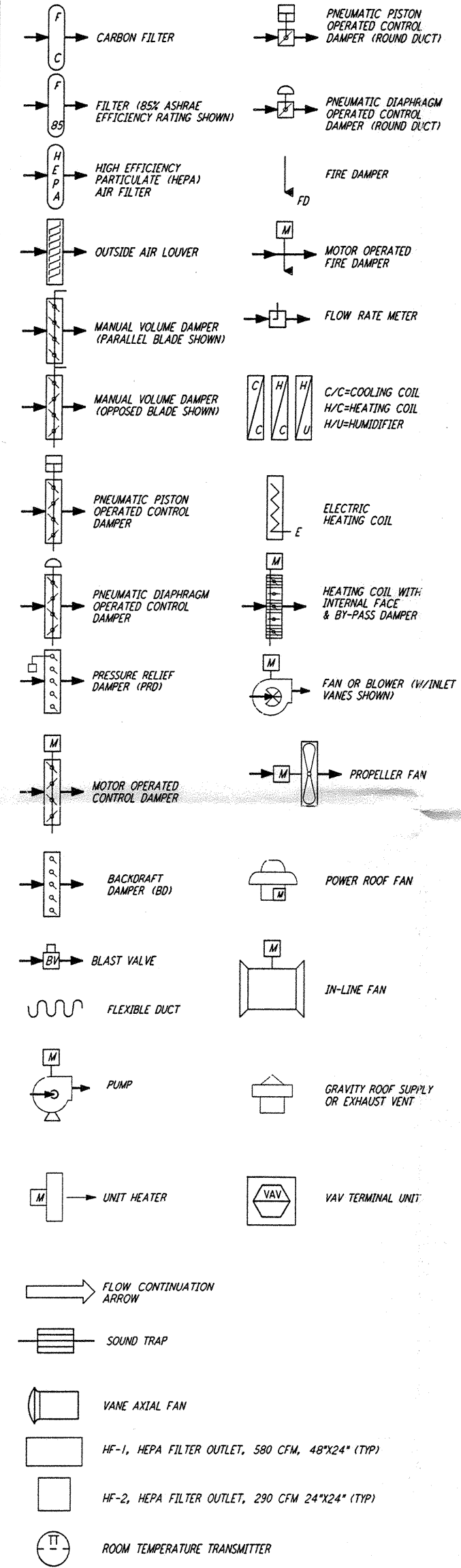
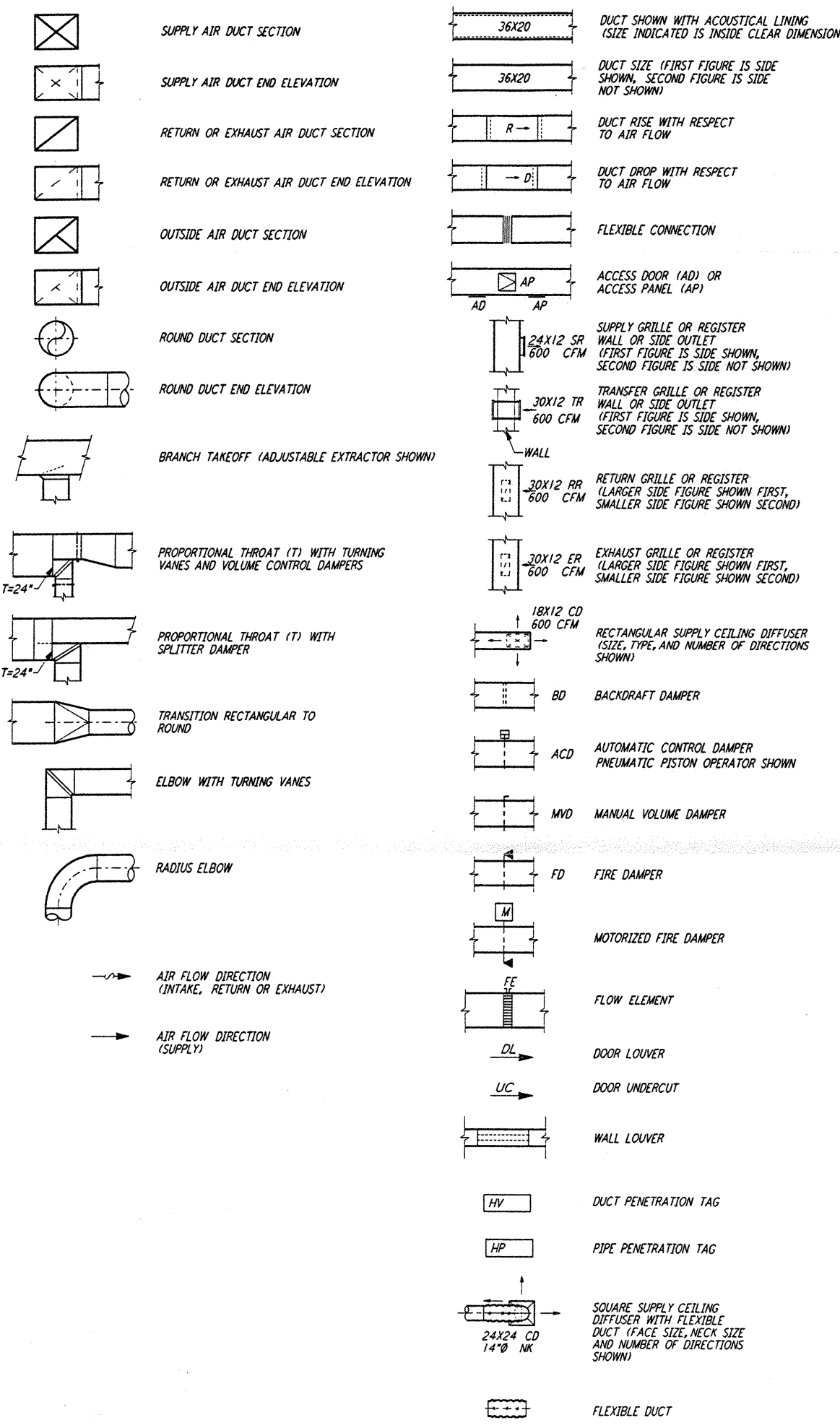
HEATING, VENTILATING AND AIR CONDITIONING LEGEND, SYMBOLS AND ABBREVIATIONS

DOUBLE LINE

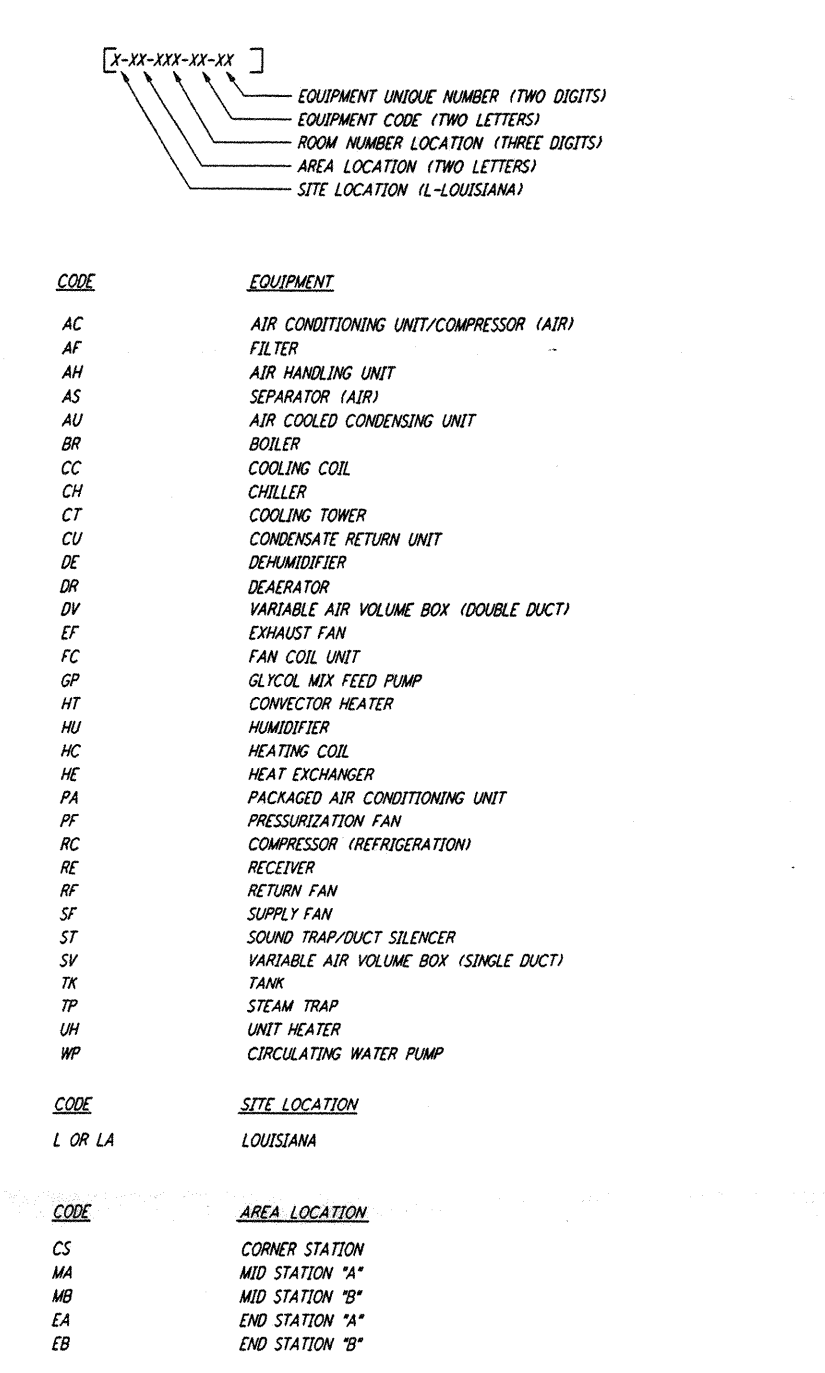
SINGLE LINE

ABBREVIATIONS

EQUIPMENT IDENTIFICATION



| ABBREY | WORD OR TERM | ABBREY | WORD OR TERM |
|-----------------|---|---------|---|
| ABV | ABOVE | IN (") | INCH |
| AC | AIR CONDITIONING | INFIL | INFILTRATION |
| ACFM | ACTUAL CUBIC FEET PER MINUTE | INSTR | INSTRUMENT |
| ACH | AIR CHANGES/HR | INSUL | INSULATION |
| AFF | ABOVE FINISHED FLOOR | IN WC | INCHES WATER COLUMN |
| AFMS | AIR FLOW MEASURING STATION | IN WG | INCHES WATER GAUGE |
| AI | ANALOG IN | KW | KILOWATT |
| AO | ANALOG OUT | LB | POUND |
| APPROX | APPROXIMATE | LGTH | LENGTH |
| ARCH | ARCHITECTURAL | LRA | LOCKED ROTOR AMPERES |
| ATM | ATMOSPHERE | LVS | LEAVING |
| AUTO | AUTOMATIC | MAIN | MAINTENANCE |
| BD | BACKDRAFT DAMPER | MAX | MAXIMUM |
| BEL | BELOW | MBH | THOUSAND BRITISH THERMAL UNITS PER HOUR |
| BF | BOTTOM FLAT | MCC | MOTOR CONTROL CENTER |
| BHP | BRAKE HORSEPOWER | MECH | MECHANICAL |
| BLOG | BUILDING | MFR | MANUFACTURER |
| BOD | BOTTOM OF DUCT | MIN | MINIMUM |
| BOG | BOTTOM OF GRILLE | MNT | MOUNTED |
| BOL | BOTTOM OF LOUVER | MTC | MOUNTING |
| BOP | BOTTOM OF PIPE | MTR | MOTOR |
| BOR | BOTTOM OF REGISTER | NC | NORMALLY CLOSED |
| BOT | BOTTOM | NEG | NEGATIVE |
| BOU | BOTTOM OF UNIT | NIC | NOT IN CONTRACT |
| BTUH | BRITISH THERMAL UNITS PER HOUR | NK | NORMALLY OPEN |
| C | CENTER LINE | NO. (*) | NUMBER |
| C | DEGREES CENTIGRADE | NTS | NOT TO SCALE |
| COMP | COMPRESSED AIR | OA | OUTSIDE AIR |
| CAP | CAPACITY | OBD | OPPOSED BLADE DAMPER |
| CCW | COUNTERCLOCKWISE | OC | ON CENTER |
| CD | CEILING DIFFUSER | OD | OUTSIDE DIAMETER |
| CFM | CUBIC FEET PER HOUR | ODP | OPEN DRIP PROOF |
| CFM | CUBIC FEET PER MINUTE | OPER | OPERATING / OPERATOR |
| CG | CEILING GRILLE | OPNG | OPENING |
| CHR | CHILLED WATER RETURN | ORD | ORDER |
| CHS | CHILLED WATER SUPPLY | PD | PRESSURE DROP |
| CL | CENTRIFUGAL COLUMN | PENET | PENETRATIONS |
| COL | CONCRETE | PF | PREFILTER |
| COND | CONDENSATE | PH | PHASE |
| CONN | CONNECTION | PL | PLATE |
| CONT | CONTINUATION OR CONTROL | PNEU | PNEUMATIC |
| CR | CEILING REGISTER/CONDENSATE RETURN | PNL | PANEL |
| CS | CARBON STEEL (GALVANIZED) | POC | POINT OF CONNECTION |
| CW | CLOCKWISE | POS | POSITIVE |
| CWR | CONDENSER WATER RETURN | PRESS | PRESSURE |
| CWS | CONDENSER WATER SUPPLY | PSIG | POUNDS PER SQUARE INCH GAUGE |
| D | DRAIN | P | PRESSURE DIFFERENTIAL |
| DA | DIRECT ACTING | QTY | QUANTITY |
| DDC | DIRECT DIGITAL CONTROL | R | ROWS |
| DDCP | DIRECT DIGITAL CONTROL PANEL | RA | RETURN AIR |
| DET | DETAIL | RD | REFRIGERANT DISCHARGE |
| DISCH | DISCHARGE | REF | REFERENCE |
| DN | DOWN | REG | REGISTER |
| DO | DIGITAL OUT | REQD | REQUIRED |
| DP | DRIP PROOF | RET | RETURN |
| DWG | DRAWING | RGT | REFRIGERANT |
| D/DIA | DIAMETER | RG | RETURN GRILLE |
| EA | EACH | RH | RELATIVE HUMIDITY |
| EFF | EFFICIENCY | RHC | REFRIGERANT LIQUID |
| EG | ENTERING GRILLE | RLA | RATED LOAD AMPERES |
| EL | ELEVATION | RM | ROOM |
| ELB | ELBOW | RM | ROOM |
| ELECT | ELECTRICAL | RP | REVOLUTIONS PER MINUTE |
| ENT | ENTERING | RS | RETURN REGISTER |
| EP | EXPLOSION PROOF | RS | REFRIGERANT SUCTION |
| EQUIP | EQUIPMENT | RV | REFRIGERANT VENT |
| ER | EXHAUST REGISTER | SA | SUPPLY AIR |
| ESP | EXTERNAL STATIC PRESSURE | SCFM | STANDARD CUBIC FEET PER MINUTE |
| EXFIL | EXFILTRATION | SCHED | SCHEDULE |
| EXH | EXHAUST | SD | SMOKE DETECTOR |
| F | DEGREES FAHRENHEIT | SEC | SECONDARY |
| F DB | DEGREES FAHRENHEIT, DRY BULB (AIR) | SG | SUPPLY FAN |
| F WB | DEGREES FAHRENHEIT, WET BULB (AIR) | SG | SUPPLY GRILLE |
| FC | FAIL CLOSED | SHT | SHEET |
| FD | FIRE DAMPER | SL | SOUND LINING |
| FIN | FINISHED | SP | STATIC PRESSURE |
| FL | FAIL LOCKED | SPEC | SPECIFICATION |
| FLA | FULL LOAD AMPERES | SR | SUPPLY REGISTER |
| FLEX | FLEXIBLE | SS | STAINLESS STEEL |
| FLG | FLANGE | STD | STANDARD |
| FLR | FLOOR | STL | STEEL |
| FLTR | FILTER | STM | STEAM |
| FO | FAIL OPEN | STRCT | STRUCTURAL |
| FP | FIRE PROTECTION | SV | SOLENOID VALVE |
| FPI | FINS PER INCH | SW | SWITCH |
| FPM | FEET PER MINUTE | TA | THROW AWAY |
| FT | FEET | TEFC | TOTALLY ENCLOSED FAN COOLED |
| FT ² | SQUARE FEET | TEMP | TEMPERATURE |
| FT ³ | CUBIC FEET | TG | TRANSFER GRILLE |
| FURN | FURNISHED | TOC | TOP OF CONCRETE |
| FWD CRV | FORWARD CURVED | TOS | TOP OF DUCT |
| GA | GALLON | TR | TRANSFER REGISTER |
| GAL | GALLON | TRANSF | TRANSFER |
| GALV | GALVANIZED | TSP | TOTAL STATIC PRESSURE |
| GFE | GOVERNMENT FURNISHED EQUIPMENT | TYP | TYPICAL |
| GPM | GALLONS PER MINUTE | UC | UNDERCUT DOOR |
| H | HIGH | UG | UNDERGROUND |
| HD | HEAD | UV | UNIT VENTILATOR |
| HDR | HEADER | V | VENT |
| HEPA | HIGH EFFICIENCY PARTICULATE AIR FILTER | VEL | VELOCITY |
| HF | HEPA FILTER OUTLET | VERT | VERTICAL |
| HDA | HAND/OFF/AUTO | VFD | VARIABLE FREQUENCY DRIVE |
| HORIZ | HORIZONTAL | VIV | VARIABLE INLET VANES |
| HP | HORSEPOWER | W | WITH |
| HR | HOUR | WC | WATER COLUMN |
| HT | HEIGHT | WG | WATER GAUGE |
| HTG | HEATING | WKM | WORK |
| HVAC | HEATING, VENTILATING AND AIR CONDITIONING | WN | WELD NECK |
| HWR | HEATING HOT WATER RETURN | WP | WORKING POINT |
| HWS | HEATING HOT WATER SUPPLY | WT | WEIGHT |
| HZ | HERTZ | WTR | WATER |
| ID | INSIDE DIAMETER | | |
| I.E. | THAT IS | | |



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| NO. | DATE | BY | CHKD | ENGR | PROJ | DESCRIPTION |
|-----|----------|-----|------|------|------|---------------------------|
| B | 8-14-96 | CLP | ME | AA | TCM | FINAL DESIGN REVIEW |
| A | 10-31-95 | CLP | ME | AA | TCM | PRELIMINARY DESIGN REVIEW |

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| DRAWN | CLP |
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LASER INTERFEROMETER
GRAVITATIONAL-WAVE OBSERVATORY
SITE NO.2 - LIVINGSTON, LOUISIANA

HVAC LEGEND & ABBREVIATIONS

SCALE: NONE

CONTRACT NUMBER: PPI150969

PROJECT NUMBER: 8094

SHEET NUMBER: LA-H-001