

| FED. ROAD DIST. NO. | STATE | PROJ. NO.    | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | HWY-M-03-91M | 1991        | 6         | 10           |

EQUIPMENT SCHEDULE

CHILLED WATER PUMPS (2 REQUIRED)  
TYPE: SINGLE-STAGE, END SUCTION, CENTRIFUGAL, CLOSE-COUPLED PUMP, BRONZE FITTED, CAST IRON CASING, BALL BEARING AND ENCLOSED MOTOR. "MILORA" 2x2 1/2 x 9, SERIES 340 OR APPROVED EQUAL.  
CAPACITY: 90 GPM AGAINST 70 FT. TOTAL DISCHARGE HEAD. 1750 RPM, 8" DIAMETER IMPELLER, 3 HP MOTOR  
AIR HANDLER  
TYPE: HORIZONTAL, DRAW-THRU, CEILING HUNG UNIT, COMPLETE WITH FACE & BY-PASS DAMPERS, FAN SECTION, COPPER TUBES AND ALUMINUM FINS, WATER COILS, FILTERS, DRIP PAN, MOTOR, DRIVES AND VIBRATION ISOLATORS. INSULATED SECONDARY DRIP PAN TO BE INSTALLED UNDER VALVES. "CARRIER" MODEL OR APPROVED EQUAL.  
CAPACITY:

| UNIT NO. | G.P.M. | TOTAL S.P. IN. OF H <sub>2</sub> O | FAN RPM | COIL FACE VEL.-FPM | H <sub>2</sub> O QUANTITY ENT.@44°F | H <sub>2</sub> O PD. THRU COIL-PT H <sub>2</sub> O | ENT. AIR TEMP °F DB   °F WB | MIN. STK CAP. BTU / HR | MOTOR HP | MODEL CARRIER |
|----------|--------|------------------------------------|---------|--------------------|-------------------------------------|----------------------------------------------------|-----------------------------|------------------------|----------|---------------|
| 1        |        |                                    |         |                    |                                     |                                                    |                             |                        |          |               |
| 2        | 3450   | 0.30                               | 884     | 437                | 22.0                                | 4.36                                               | 77.4   63.4                 | 107,420                | 1.4      | 8L            |
| 3        | 1740   | 0.25                               | 1237    | 479                | 8.0                                 | 1.33                                               | 76.0   63.8                 | 42,900                 | .8       | 3L            |
| 4        | 2450   | 0.30                               | 872     | 415                | 14.0                                | 4.09                                               | 77.4   63.4                 | 74,950                 | .9       | 6L            |
| 5        | 1300   | 0.25                               | 1180    | 478                | 7.0                                 | 1.94                                               | 77.1   65.1                 | 37,240                 | .5       | 3S            |
| 6        | 1700   | 0.25                               | 810     | 403                | 10.0                                | 1.42                                               | 76.1   63.9                 | 30,620                 | .6       | CS            |

POWER: 3160/108V  
EXHAUST FANS NO. 1 & 2, ROOMS 108 & 122  
TYPE: CENTRIFUGAL, CEILING EXHAUST FAN COMPLETE WITH FAN MOTOR, BACKDRAFT DAMPER, HOUSING AND INTAKE GRILLE. ACME OR APPROVED EQUAL.  
CAPACITY:

| FAN NO. | LOCATION    | CFM | S.P. | RPM  | T.S. | HP | MODEL | POWER     |
|---------|-------------|-----|------|------|------|----|-------|-----------|
| NO. 1   | RM. NO. 108 | 140 | 1/4" | 1050 | 1/10 |    | V-150 | 120V/1/60 |
| NO. 2   | RM. NO. 122 | 320 | 1/4" | 871  | 1/10 |    | V-400 | 120V/1/60 |

EXHAUST FAN NO. 4, ROOM 122  
TYPE: CENTRIFUGAL, IN-LINE, CEILING HUNG, BELT-DRIVEN EXHAUST FAN, COMPLETE WITH MOTOR, DRIVES & VIBRATION ISOLATORS "GREENHECK" MODEL 502B OR APPROVED EQUAL.  
CAPACITY:

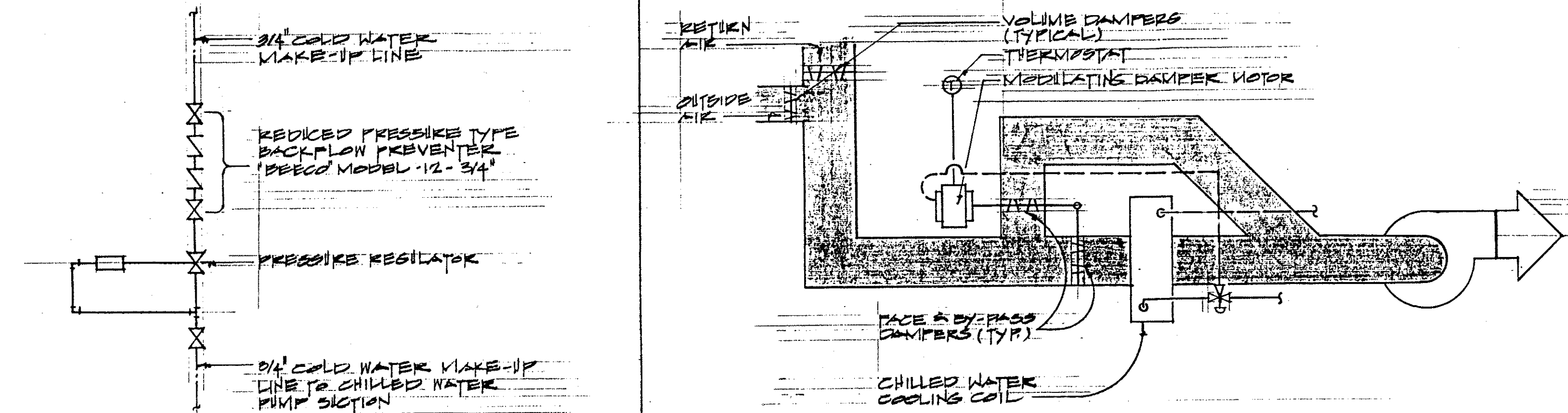
| FAN NO. | LOCATION    | CFM  | S.P. | RPM  | T.S.  | HP  | MODEL    | POWER     |
|---------|-------------|------|------|------|-------|-----|----------|-----------|
| NO. 4   | RM. NO. 122 | 1480 | 3/8" | 1282 | 4.994 | 1/3 | 9RB-14.4 | 120V/1/60 |

6/3/91 Revised Equipment Schedule per ADD. No. 1.

DATE REVISION

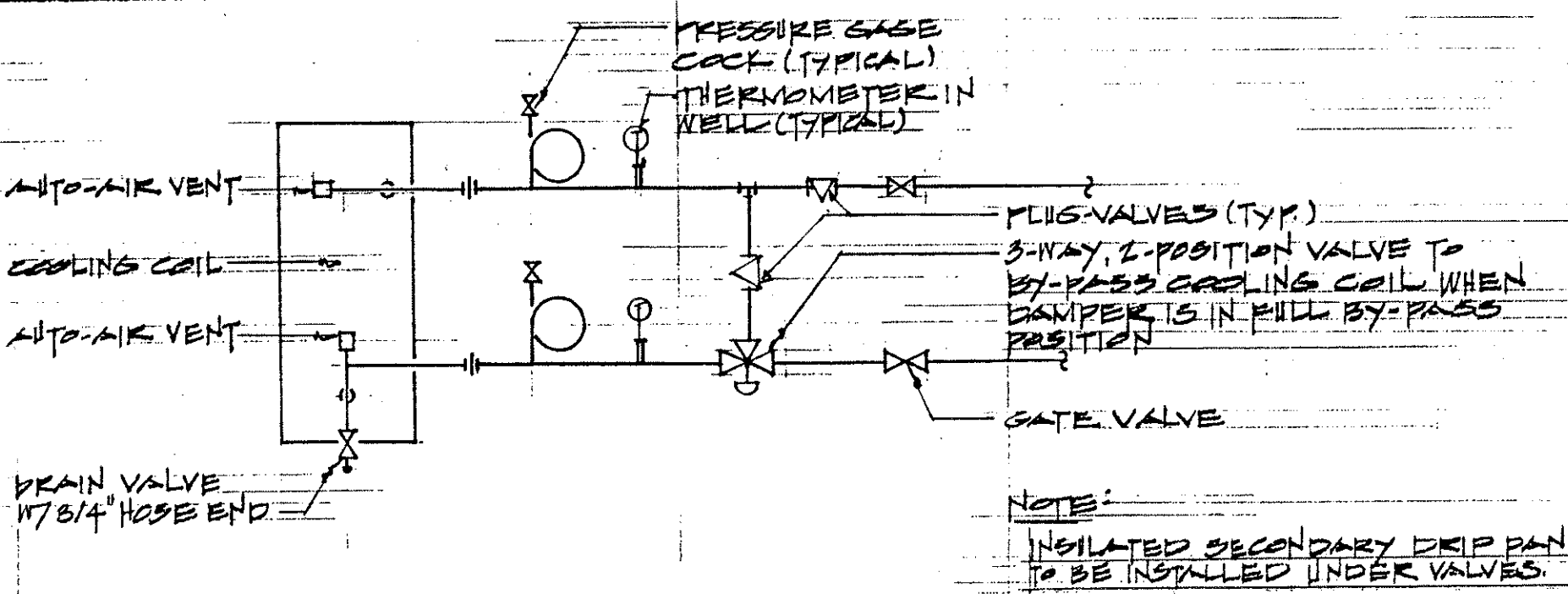
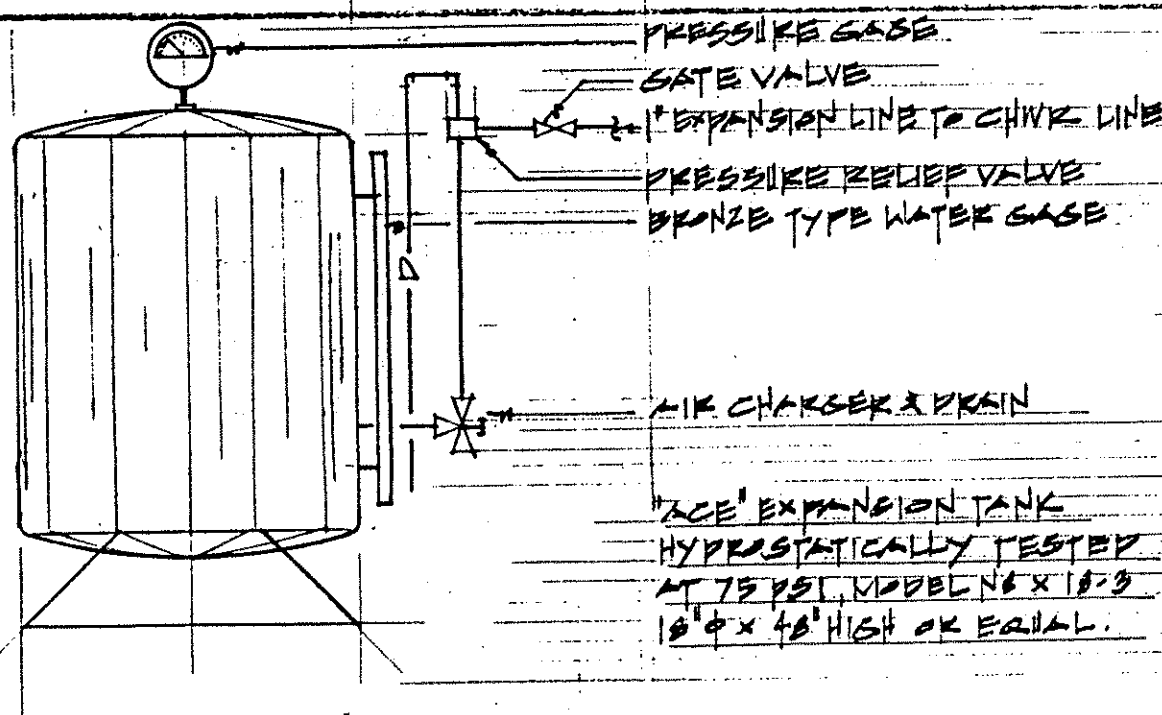
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

TYPICAL DETAILS, DIAGRAMS  
AND EQUIPMENT SCHEDULES  
MAUI DISTRICT BASEYARD  
Administration Building Air Conditioning  
PROJECT NO. HWY-M-03-91M  
Scale: As Shown Date: April, 1991  
SHEET No. 1 OF 1 SHEETS



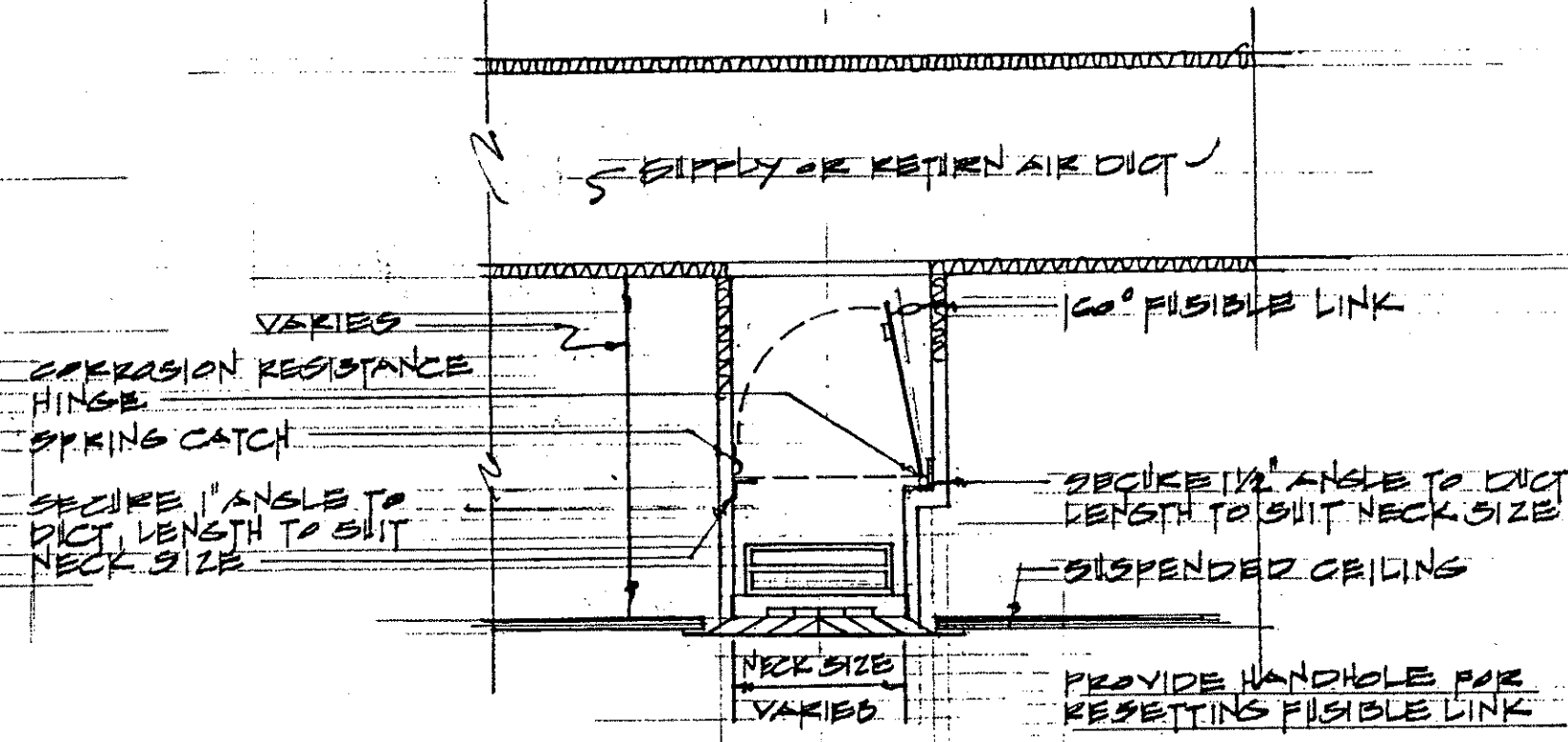
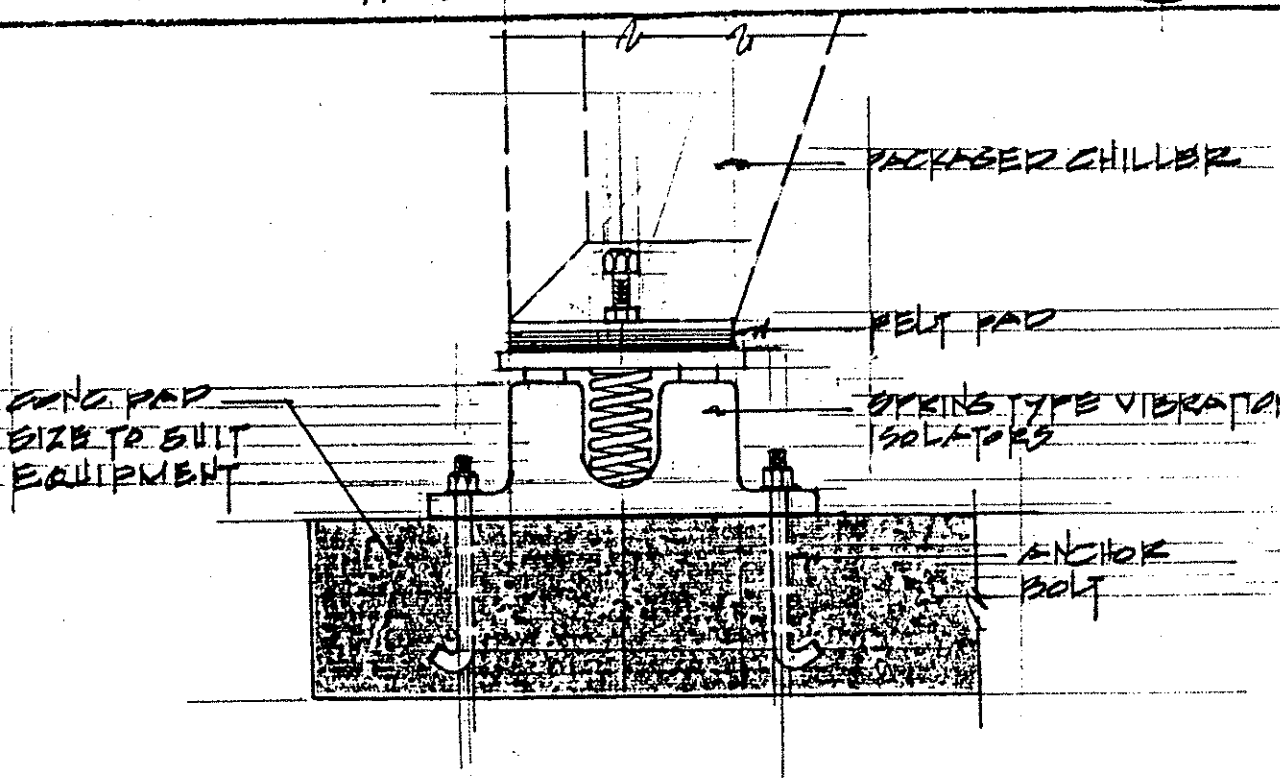
COLD WATER MAKE-UP DIAGRAM FOR CHILLED WATER

TEMPERATURE CONTROL DIAGRAM



AIR HANDLER PIPING DIAGRAM

EXPANSION TANK DETAIL (CLOSED TYPE)



TYPICAL FIRE DAMPER DETAIL

VIBRATION ISOLATOR DETAIL

|             |       |
|-------------|-------|
| DATE        | _____ |
| DESIGNED BY | _____ |
| DRAWN BY    | _____ |
| CHECKED BY  | _____ |
| NOTED BY    | _____ |
| APPROVED BY | _____ |