## **ADDENDUM NO. 3**

| DATE:         | November 1, 2023                                     |
|---------------|--|
| PROJECT:      | Wake County Public School System                     |
|               | Rand Road Elementary School                          |
|               | Fire Alarm Replacement                               |
| <b>OWNER:</b> | Wake County Public School System                     |
|               | 1551 Rock Quarry Road, Building A, Raleigh, NC 27610 |
| ENGINEER:     | Dewberry Engineers Inc.                              |
|               | 2610 Wycliff Road, Suite 410, Raleigh, NC 27607      |

This Addendum, applicable to the work designated herein, shall be understood to be and is an Addendum to the contract documents and, as such, shall be become a part of and included in the contract.

## **Drawings:**

1. No revised drawings issued.

# **Specifications:**

1. No specifications change.

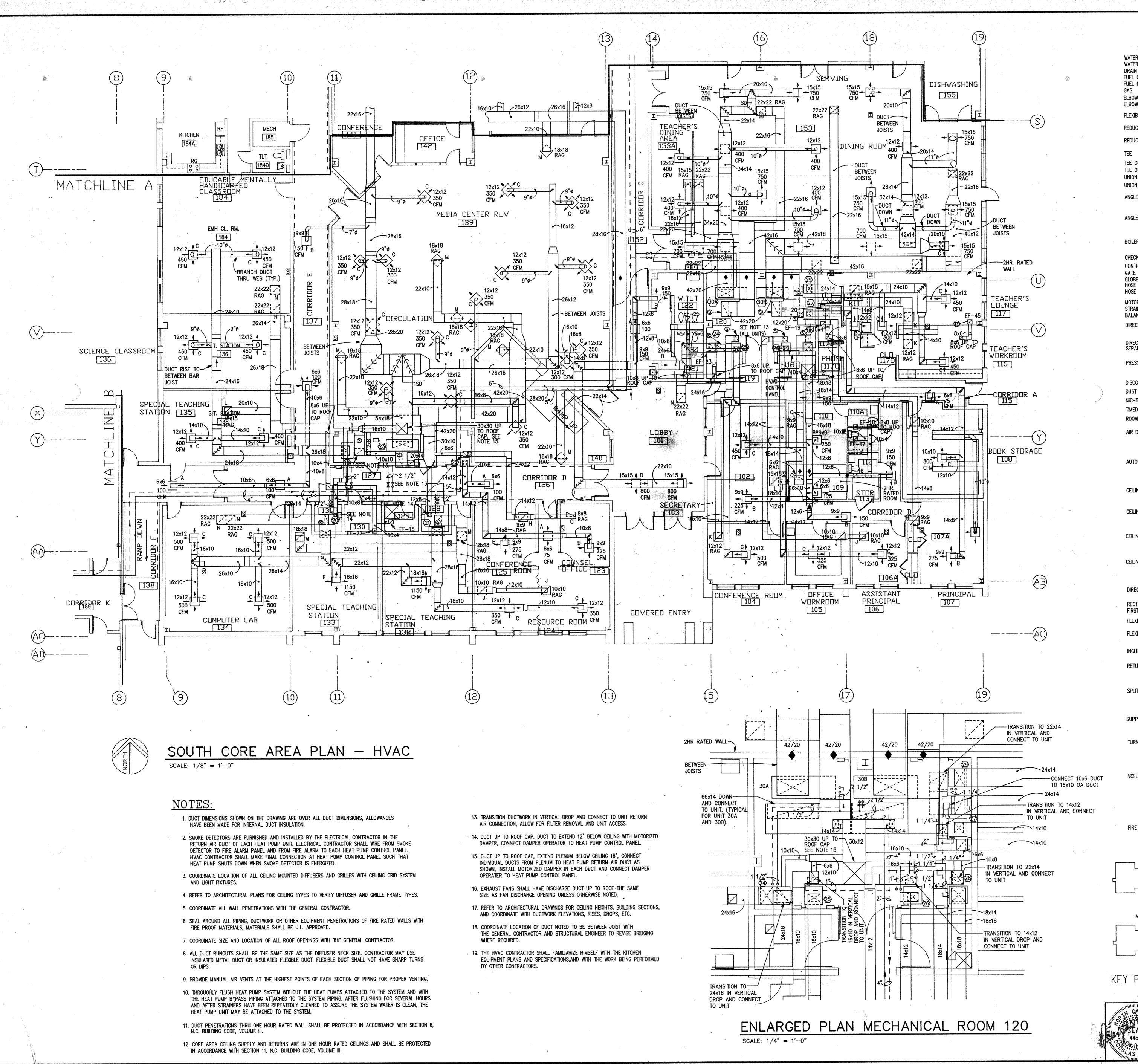
## **Clarifications:**

1. See attached original 1989 signed mechanical drawings for additional information on exhaust fans to be replaced as noted on Sheet FA201, Keynote 7 and Sheet FA202, Keynote 7.

# Attached Documents:

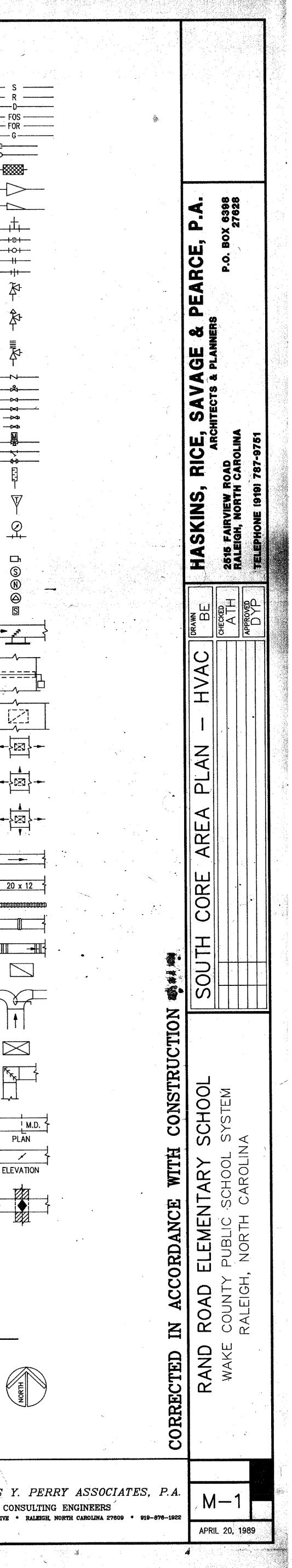
- 1. M-1: SOUTH CORE AREA PLAN HVAC
- 2. M-2R: NORTH CORE AREA PLAN HVAC
- 3. M-6R: GRILL AND DIFFUSER SCHEDULE

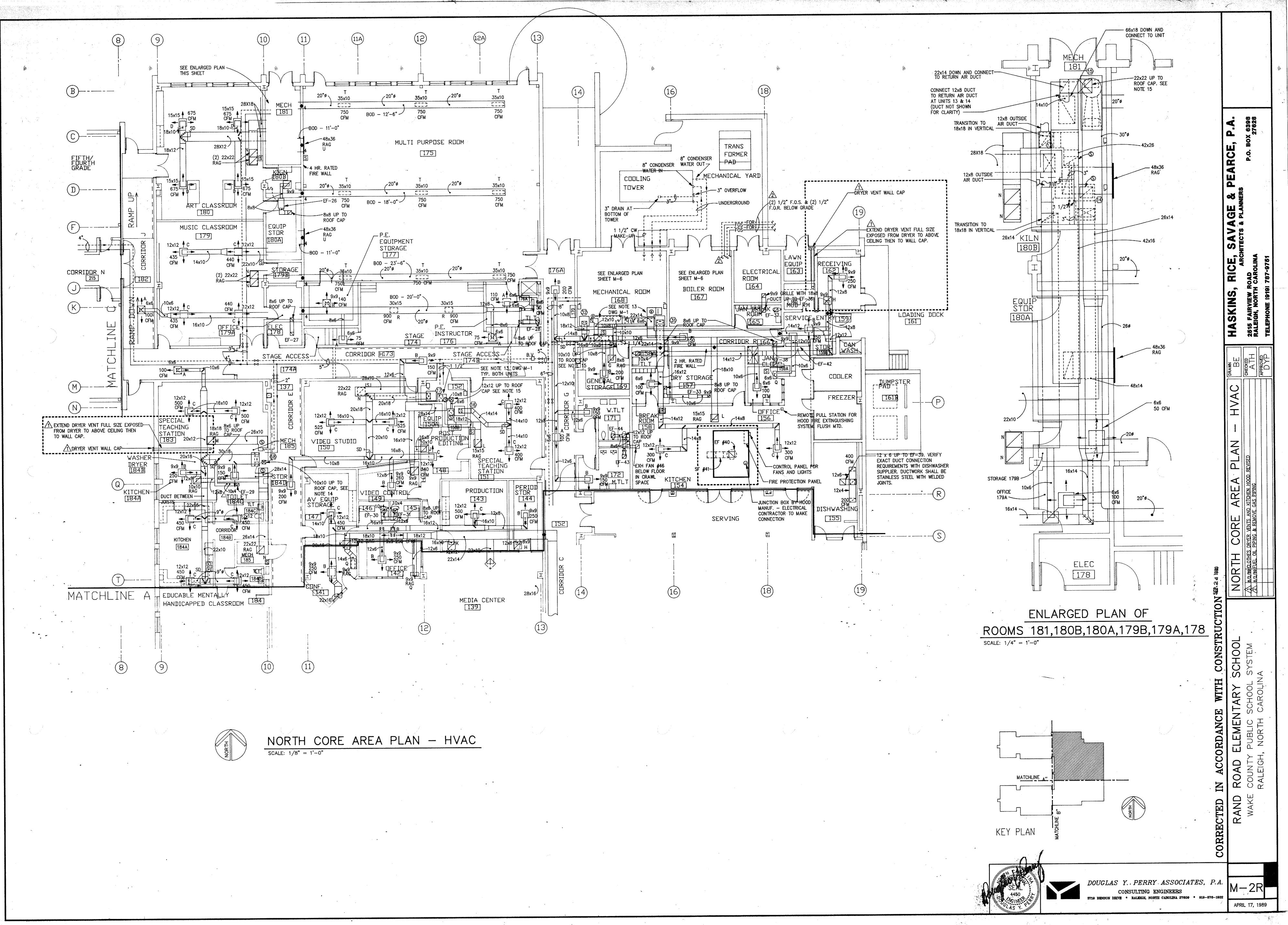
End of Addendum No. 3



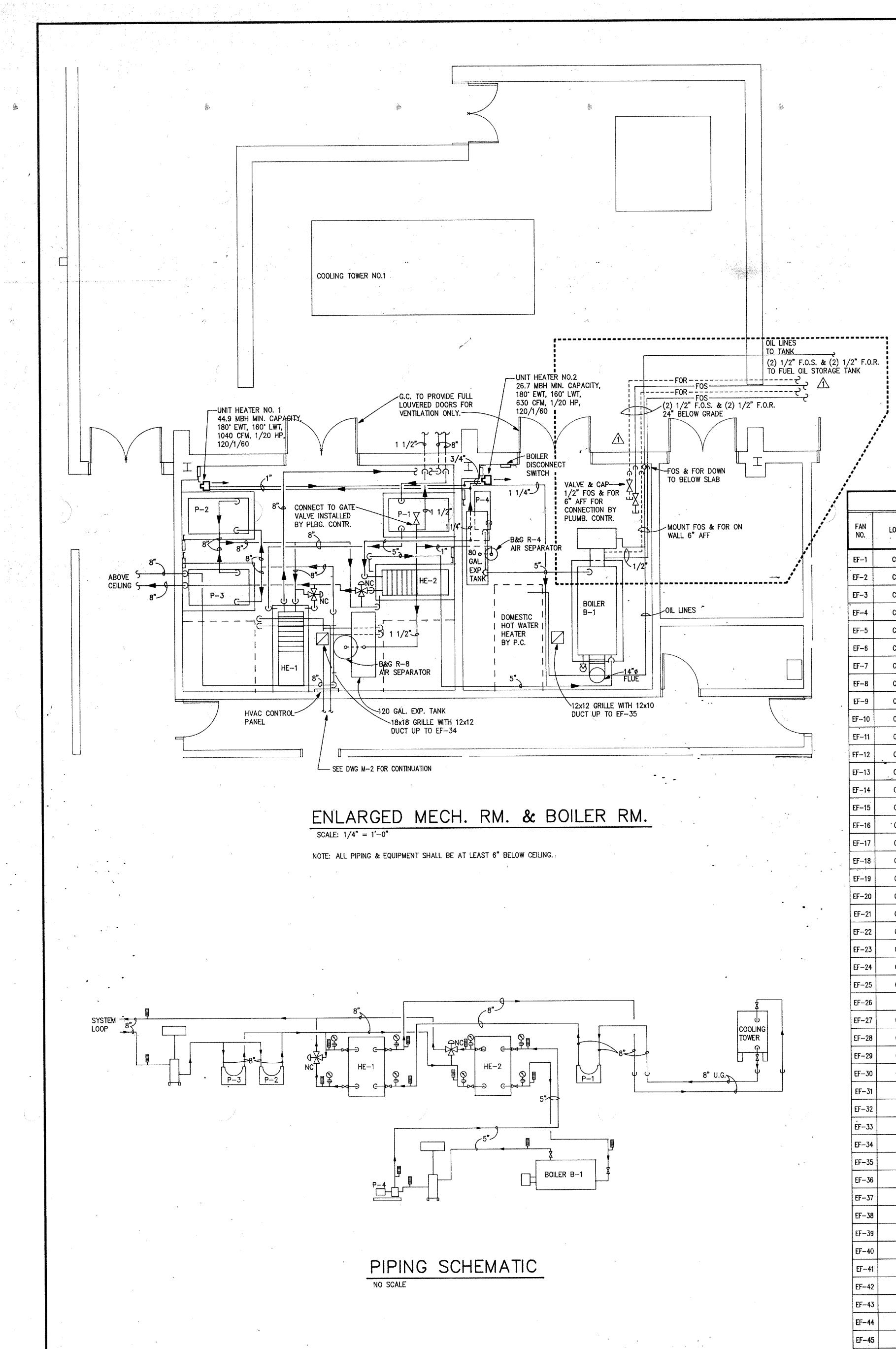
# HVAC LEGEND

|          |  | and an and a second sec |
|----------|--|--|
|          |  |  |
|          | WATER SUPPLY                                     | S<br>R   |
|          | DRAIN  | D<br>FOS   |
|          | FUEL OIL RETURN                                  | FOR  |
|          | ELBOW - TURNED DOWN<br>ELBOW - TURNED UP         | ¢  |
|          | FLEXIBLE CONNECTIONS VIBRATION ELIMINATORS       |  |
|          | REDUCER - CONCENTRIC -                           |  |
|          | 28   |  |
|          | REDUCER - ECCENTRIC                              | <br>_+   |
|          | TEE<br>TEE OUTLET - DOWN                         | <del>       </del>   |
|          | TEE OUTLET - UP                                  | +0+  |
|          | UNION - FLANGED<br>UNION SCREWED                 |  |
|          | ANGLE GLOBE VALVE                                | Ĩ  |
|          |  | ↓<br>▲   |
|          | ANGLE NEEDLE VALVE                               | <i>₽</i>   |
|          |  |  |
|          | BOILER SAFETY PRESSURE RELIEF VALVE              | A  |
|          | CHECK VALVE                                      | <u> </u>   |
|          | CONTROL VALVE                                    |  |
|          | GLOBE VALVE –<br>HOSE GATE VALVE                 |  |
|          | HOSE GLOBE VALVE                                 |  |
|          | MOTOR OPERATED 3-WAY VALVE                       | &  |
|          | BALANCING VALVE WITH FLOW MEASURING -            | →<br>→<br>⊑1   |
|          | DIRECT READING THERMOMETER                       |  |
|          | DIRECT READING THERMOMETER                       | $\overline{\mathbf{V}}$  |
|          | SEPARABLE SOCKET TYPE                            |  |
|          | PRESSURE GAGE                                    |  |
|          |  |  |
|          | DISCONNECT SWITCH<br>DUST MOUNTED SMOKE DETECTOR | s<br>S   |
|          | NIGHT SETBACK THERMOSTAT                         | N  |
|          | TIMED OVERRIDE SWITCH                            |  |
|          | ROOM SENSOR                                      | S  |
|          | AIR DEFLECTOR                                    |  |
|          |  |  |
|          | AUTOMATIC DAMPERS - MOTOR OPERATED               | <u></u>  |
|          |  | $1 - \sqrt{1}$   |
|          |  |  |
|          | CEILING RETURN AIR REGISTER/GRILLE               |  |
|          | CEILING DIFFUSER - SQUARE, 2-WAY THROW           |  |
|          |  | }}   |
|          | CEILING DIFFUSER - SQUARE, 3-WAY THROW           |  |
|          | -  | }}   |
|          | CEILING DIFFUSER - SQUARE, 4-WAY THROW           |  |
|          | CEILING DIFFUSER - SQUARE, 4-MAT INRUM           |  |
| •        |  | 1  |
|          | DIRECTION OF FLOW                                | { <b>-</b>   |
|          | RECTANGULAR SHEET METAL DUCT -                   | 20 x 12  |
|          | FIRST FIGURE WIDTH, SECOND DEPTH                 |  |
|          | · · · · · · ·                                    | J  |
|          | FLEXIBLE CONNECTIONS                             | ŢŴ   |
|          | INCLINED DROP IN DIRECTION OF ARROW              | 4  |
|          | RETURN/EXHAUST DUCTS SECTION                     |  |
|          | ,<br>  |  |
|          | SPLITTER DAMPER                                  | ┶╓┷  |
|          |  | <b></b>  |
|          |  | •  |
|          | SUPPLY DUCT SECTION                              | $\ge$  |
|          | •  | Kr. C  |
|          | TURNING VANES                                    |  |
|          |  |  |
|          |  | <u> </u>   |
|          | VOLUME CONTROL DAMPER (MANUAL)                   | PLAN   |
|          |  |  |
|          |  | ELEVATIO   |
|          |  |  |
| -        | FIRE DAMPER IN DUCT PENETRATION OF WALL          |  |
|          |  | ep .   |
|          |  |  |
| Γ        |  |  |
| ]        |  |  |
|          |  |  |
|          |  |  |
|          | MATCHLINE A"                                     | 1  |
| <b></b>  |  |  |
|          |  |  |
| ]        |  | F  |
| <b>1</b> |  | NORTH  |
| /        | Y PLAN   |  |
| ιĿ       | Y PLAN   |  |
|          |  |  |
| ,IIIIII  | CAAD AND AND AND AND AND AND AND AND AND         | ······································   |
| 29       | DOUGLA   | SY.P   |
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|             | BOILER    | SCHE            | DULE                 | (H.W.)                |                        |
|-------------|-----------|-----------------|----------------------|-----------------------|------------------------|
| UNIT<br>NO. | ТҮРЕ      | TYPE OF<br>FUEL | NET I.B.R.<br>RATING | ENT. WATER<br>TEMP. F | LEAV. WATER<br>TEMP. T |
| B-1         | HOT WATER | GAS             | 2843.5 MBH           | 160                   | 180                    |

| UNIT<br>NO. | GPM MIN. CAP. ENT. AIF |      |        | WATER C | ONDITION | BASIN   | MAX. WTR.          | ELE   | CTRIC SE | RVICE   |
|-------------|------------------------|------|--------|---------|----------|---------|--------------------|-------|----------|---------|
| NO.         | UT M                   | TONS | WBT "F | ENT. F  | LVG. F   | HTR. kW | PRESS. DROP<br>"WG | VOLTS | PHASE    | STARTER |
| 1           | 800                    | 267  | 78     | 85      | 95       | 10      |                    | 480   | 3        |         |

|           | -        | HE             | AT EX(        | CHANG         | ER S     | SCHE     | DULE          |               |             |            |
|-----------|----------|----------------|---------------|---------------|----------|----------|---------------|---------------|-------------|------------|
|           |          |                | hot side syst | EM            | ,        |          | COL           | d side tower  |             |            |
| NO.       | GPM      | INLET TEMP.    | OUTLET TEMP.  | PRESS. DROP   | NOZZLE   | GPM      | INLET TEMP.   | OUTLET TEMP.  | PRESS. DROP | NOZZLE     |
| 1*        | 800      | 100'F          | 90'F          | 14.7 PSI      | 4*       | 800      | 85.8F         | 95.7 <b>F</b> | 15.0 PSI    | 4 <b>"</b> |
| 2*        | 285      | 180 <b>°</b> F | 145F          | 7.2 PSI       | 4*       | 400      | 58 <b>°</b> F | 82F           | 14.4 PSI    | 4*         |
| * SELECTI | ons base | D ON B.A.C. E  | ENER-CHANGER  | , PLATE AND F | RAME HEA | T EXCHAN | GER, MODEL I  | EC.           |             | L          |

|            |          |                       |           |         |            | <u></u>                |                    |               |        |  |               |                                       |                    |
|------------|----------|-----------------------|-----------|---------|------------|------------------------|--------------------|---------------|--------|--|---------------|---------------------------------------|--------------------|
|            |          | T                     | FAN       |         |            |                        | _ <u>E</u>         | 1             | T      |  | ·             | · · · · · · · · · · · · · · · · · · · | <u>\</u>           |
| FAN<br>NO. | LOCATION | SERVICE               | MANUF.    | MODEL   | C.F.M.     | STAT.<br>RESS<br>"W.G. | MAX.<br>Fan<br>RPM | WHEEL<br>Dia. | DRIVE  | MIN.<br>HP.                                  | ELEC<br>VOLTS | TRIC SER                              | CONTR              |
| EF-1       | CEILING  | RM. 198               | GREENHECK | SP-25   | 208        | 0.150                  | 1050               |               | DIRECT | 1/40   | 120           | 1                                     | EMC                |
| EF-2       | CEILING  | RM. 201               | GREENHECK | SP-25   | 208        | 0.150                  | 1050               | _             | DIRECT | 1/40   | 120           | 1                                     | EMC                |
| EF3        | CEILING  | RM. 200               | GREENHECK | SP-8    | 84         | 0.150                  | 1550               |               | DIRECT | 1/125  | 120           | 1                                     | ЕМС                |
| EF-4       | CEILING  | RM. 196A              | GREENHECK | SP-8    | 84         | 0.150                  | 1550               | _             | DIRECT | 1/125  | 120           | 1                                     | EMC                |
| EF-5       | CEILING  | RM. 192A              | GREENHECK | SP-8    | 84         | 0.150                  | 1550               | -             | DIRECT | 1/125  | 120           | 1                                     | ЕМС                |
| EF-6       | CEILING  | RM. 197A              | GREENHECK | SP-8    | 84         | 0.150                  | 1550               |               | DIRECT | 1/125  | 120           | 1                                     | EMC                |
| EF-7       | CEILING  | RM. 193A              | GREENHECK | SP8     | 84         | 0.150                  | 1550               |               | DIRECT | 1/125  | 120           | 1                                     | EMC                |
| EF-8       | CEILING  | RM. 190A              | GREENHECK | SP-8    | 84         | 0.150                  | 1550               | -             | DIRECT | 1/125  | 120           | 1                                     | EMC                |
| EF-9       | CEILING  | RM. 185A              | GREENHECK | SP-8    | 84         | 0.150                  | 1550               |               | DIRECT | 1/125  | 120           | 1                                     | ЕМС                |
| F-10       | CEILING  | RM. 191A              | GREENHECK | SP-8    | 84         | 0.150                  | 1550               |               | DIRECT | 1/125  | 120           | 1                                     | ЕМС                |
| EF11       | CEILING  | RM. 186A              | GREENHECK | SP-8    | 84         | 0.150                  | 1550               |               | DIRECT | 1/125  | 120           | 1                                     | ЕМС                |
| F-12       | CEILING  | RM. 222               | GREENHECK | SP-27   | 335        | .150                   | 1550               |               | DIRECT | 1/15   | 120           | 1                                     | ЕЙС                |
| EF-13      | CEILING  | RM. 223               | GREENHECK | SP-8    | 84         | .150                   | 1550               |               | DIRECT | 1/125  | 120           | 1                                     | EMO                |
| F-14       | CEILING  | RM. 225               | GREENHECK | SP-27   | 335        | .150                   | 1550               | -             | DIRECT | 1/15   | 120           | 1                                     | EMO                |
| EF-15      | CEILING  | RM. 129               | GREENHECK | SP-8    | 84         | .150                   | 1550               | -             | DIRECT | 1/125  | 120           | 1                                     | ĒWO                |
| EF-16      | CEILING  | RM. 112               | GREENHECK | SP-8    | 84         | .150                   | 1550               | _             | DIRECT | 1/125  | 120           | 1                                     | EM                 |
| EF-17      | CEILING  | RM. 113               | GREENHECK | SP-8    | 84         | .150                   | 1550               | _             | DIRECT | 1/125  | 120           | 1                                     | EM                 |
| EF-18      | CEILING  | <sup>2</sup> RM. 110A | GREENHECK | SP-8    | 84         | .150                   | 1550               | -             | DIRECT | 1/125  | 120           | 1                                     | EM                 |
| EF-19      | CEILING  | RM. 117B              | GREENHECK | SP-8    | 84         | .150                   | 1550               | -             | DIRECT | 1/125  | <u>^ 120</u>  | 1                                     | EM                 |
| EF-20      | CEILING  | RM. 117A              | GREENHECK | SP-8    | 84         | .150                   | 1550               | -             | DIRECT | 1/125  | 120           | 1                                     | EM                 |
| EF-21      | CEILING  | RM. 118               | GREENHECK | SP-8    | 84         | .150                   | 1550               | -             | DIRECT | 1/125  | 120           | 1                                     | - EM               |
| EF-22      | CEILING  | RM. 130               | GREENHECK | SP-8    | 84         | .150                   | 1550               | -             | DIRECT | 1/125  | 120           | 1                                     | EM                 |
| EF-23      | CEILING  | RM. 119               | GREENHECK | SP-8    | . 84       | .150                   | 1550               | -             | DIRECT | 1/125  | 120           | 1                                     | EM                 |
| EF-24      | CEILING  | RM. 121               | GREENHECK | SP-25   | 208        | .150                   | 1050               |               | DIRECT | 1/40   | 120           | 1                                     | EM                 |
| EF-25      | CEILING  | RM. 122               | GREENHECK | SP-25   | 208        | .150                   | 1050               | -             | DIRECT | 1/40   | 120           | 1                                     | EM<br>MAN          |
| EF-26      | INLINE   | RM. 180B              | GREENHECK | CSP-27  | 237        | .25                    | 1550               | -             | DIRECT | +  | 120           | 1                                     | SWI                |
| EF-27      | CEILING  | RM. 178               | GREENHECK | SP-8    | 84         | .150                   | 1550               |               | DIRECT | 1/125  | 120           | 1                                     | EM                 |
| EF-28      | CEILING  | RM. 1748              | GREENHECK | SP-8    | 84         | .150                   | 1550               |               | DIRECT | +  |               | 1                                     | EM                 |
| EF-29      | CEILING  | RM. 184C              | GREENHECK |         | 150        | .150                   | 1550               |               | DIRECT |  |               | 1                                     | EM                 |
| EF-30      | CEILING  | RM. 146               | GREENHECK | SP-8    | 84         | .150                   | 1550               |               | DIRECT | <u>                                     </u> | <u> </u>      | 1                                     | EM                 |
| EF31       | CEILING  | RM. 145               | GREENHECK |         | 84         | .150                   | 1550               |               | DIRECT |  |               | 1                                     | EM                 |
| EF-32      | CEILING  | RM. 158A              | GREENHECK |         | 84         | .150                   | 1550               |               | DIRECT | +  |               | 1                                     | EM                 |
| EF-33      | INLINE   | RM. 157               | GREENHECK | 1       | 237        | .25                    | 1550               |               | DIRECT | +  |               | 1                                     | EM                 |
| EF-34      | ROOF     | RM. 168               | GREENHECK |         | 771        | .25                    | 1465               |               | BELT   | 1/4  | 120           | 1                                     | T'S                |
| EF-35      | ROOF     | RM. 167               | GREENHECK |         | 578        | .25                    | 1625               |               | BELT   | 1/4  |               | 1                                     | T'S<br>T'S         |
| EF-36      | ROOF     | RM. 164               | GREENHECK |         | 314        | .25                    | 1800               |               | BELT   | 1/4  | -             | 1                                     | EM                 |
| EF-37      | CEILING  | RM. 165               | GREENHECK |         | 84         | 0.150                  |                    |               | DIRECT | +  | +             | 1                                     | EM                 |
| EF-38      | CEILING  | RM. 159A              | GREENHECK |         | 84         | 0.150                  |                    |               |        |  | -             | 1                                     | MAN                |
| EF-39      | ROOF     | RM. 155               | GREENHECK |         | 1          | .375                   | 1800               |               | BELT   | 1/4  |               | 3                                     | SW                 |
| EF-40      | ROOF     | RM. 154               | GREENHECK |         |            | .75                    | 585                | -             | BELT   | 1 1/2  |               | 3                                     | PAC<br>KITC<br>SYS |
| EF-41      | ROOF     | RM. 154               | GREENHECK | (2)     | 4235       | .50                    | 550                |               | BELT   | 1 1/2  | +             |                                       | MI                 |
| EF-42      | WALL     | RM. 159               | GREENHECK |         | 1700       | 150                    | 1050               | -             | DIRECT | +  |               | 1                                     | SW<br>EM           |
| EF-43      | CEILING  | RM. 172               | GREENHECK |         | 208        | .150                   | 1050               | -             | DIREC  | -  | -             | 1                                     | EN                 |
| EF-44      | CEILING  | RM. 171               | GREENHECK | 1       | 208<br>150 | .150                   | 1050               | _             | DIREC  | +  | +             | 1                                     | 0-6                |
| EF-45      | CEILING  | RM. 117<br>CRAWL      | GREENHECK |         | 1          |                        |                    | -             |        |  |               | 1                                     | TII<br>EA          |
| EF46       | SPACE    | SPACE                 | GREENHEC  | ( SP-17 | 150        | .150                   | 1550               | <u>'  </u>    | DIRE.C | 173  | 1 120         | '                                     |                    |

|                 | MBOL<br>A<br>B | (<br>LOUVI           | TYPE       |  | &                  | [                 | FFL                   | JSE                                    |                |                            | <u></u>      | ULE              |                         |               |  |                     |                      |   |  |
|-----------------|----------------|----------------------|------------|--|--------------------|-------------------|-----------------------|--|----------------|----------------------------|--------------|------------------|-------------------------|---------------|--|---------------------|----------------------|---|--|
|                 | A              | LOUVI                |            |  | -                  | S                 | ERVICE                |  | DA             |                            | 1.           |                  |                         |               |  |                     |                      |   | i an tha   |
|                 |                | LOUV                 | CD CAA     |  |                    |                   |                       |  |                | NEL SIZE                   |              | NECKSIZE         |                         |               |  |                     |                      |   |  |
|                 | <u> </u>       | LOUV                 |            |  |                    |                   | IPPLY                 |  |                | × 24<br>× 24               |              | 6 x 6            |                         | 50-1<br>130-2 |  |                     |                      |   |  |
|                 | c              |                      | ER FAC     |  |                    |                   | IPPLY                 |  |                | x 24                       |              | 12 x 12          | <u>.</u>                | 300-          |  |                     |                      |   |  |
|                 | D              | LOUVI                | ER FAC     | E  |                    | SL                | IPPLY                 |  | . 24           | x 24                       |              | 15 x 15          | 5                       | 550-1         | воо  |                     |                      |   |  |
| - 19<br>        | E              | <u></u>              | ER FAC     | · · ·  |                    |                   | IPPLY                 |  |                | x 24                       |              | 18 x 18          | 3                       | 800-          |  |                     |                      | <b>m m</b>                                |  |
| 1.1             | F<br>G         | - <u>.</u>           |            |  |                    |                   | TURN                  | <u></u>                                |                | × 24<br>× 24               |              | 6 x 6<br>8 x 8   |                         | 50-1<br>130-2 |  |                     | 4                    | P.O. BOX 6398<br>27628                    |  |
|                 | Н              |                      | ORATEL     |  |                    | <u> </u>          | TURN                  |  |                | × 24                       |              | 9 x 9            |                         | 230-          |  |                     | <b>Q.</b>            | X Ca                                      |  |
|                 | J              | PERF                 | ORATEL     | ) FACE   | × .                | RE                | TURN                  |  | 24             | - x 24                     |              | 10 x 10          | )                       | 280-          | 350  |                     | Щ<br>С<br>Ш          | <b>.</b>                                  |  |
|                 | к              | <u>aa (</u>          | ORATEL     |  | ····               |                   | TURN                  |  |                | × 24                       |              | 12 x 12          | •••••••••••             | 350-          |  |                     | AR                   |   |  |
|                 | . <u>L</u> ,   |                      | ORATEL     |  |                    |                   | ETURN                 |  |                | x 24                       |              | 15 x 15          |                         | 550-<br>800-  |  |                     | Щ<br>С<br>"          |   |  |
|                 | N              |                      | ORATEL     |  |                    |                   | ETURN                 |  |                | x 24                       |              | 22 x 2           |                         |               | -1700  |                     | <b>X</b><br>UNERS    |   |  |
|                 | P              | LOUV                 | ER FAC     | ж<br>Ж   |                    | S                 | JPPLY                 |  | 12             | X 24                       |              | 6 x 6            |                         | 50            | 125  |                     | GE                   |   |  |
|                 | Q              | PERF                 | ORATE      | FACE   |                    | -                 | ETURN                 |  | 12             | X 24                       |              | 9 x 9            |                         | 230-          | -  |                     | VA<br>s s            | 1. S. |  |
|                 | R              |                      | -LOUV      |  |                    |                   |                       |  |                |                            |              | 30 x 1<br>35 x 1 |                         | 90<br>75      | -  |                     | <b>SAV</b><br>ITECTS |   |  |
|                 | T<br>U         |                      | GRILLE     | <del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>   |                    |                   | JPPLY<br>ETURN        |  |                |                            |              | 48 x 3           |                         | 450           |  |                     | <b> </b>             | <b>.</b>                                  | 5  |
|                 | v              |                      | GRILLE     |  |                    |                   | ETURN                 |  |                |                            | ·            | 36 x 2           |                         | 205           | 50   | e<br>V              | RICE,<br>Arc         | ROL                                       | 787-9751   |
| <b>1</b>        | ł.             |                      |            |  |                    |                   |                       | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |                |                            |              |                  |                         |               |  |                     |                      | · · · · · ·                               |  |
|                 |                |                      |            |  |                    |                   |                       |  | امر<br>        |                            |              |                  |                         |               |  |                     | ASKINS               | VIEW                                      | IE (919)   |
|                 |                |                      |            |  | P                  | UM                |                       | 1                                      |                |                            |              | SERVICE          |                         | ~             | anna a shara a<br>Anna a shara a s |                     | SK                   | FAIR<br>IGH, -                            | TELEPHONE  |
| ATION           | I SEF          | RVICE                | ŤY         | PE   | GPM                | TOTAL<br>HEAD     | MIN.<br>EFF. <b>%</b> |  |                |                            | VOLTS        | PHASE            | MANU                    | FACTURE       | R - MODEL N  | 10.                 | HA                   | 2515<br>3ALE                              |  |
| H RM.<br>68     |                | OND.<br>ATER         |            | JBLE<br>CTION  | 800                | 60                | 82%                   | 2                                      | 20             | 1750                       | 480          | 3                | B &                     | G, VSC 6      | X 6 X 9 3/4  |                     |                      | ·····                                     |  |
| H RM.<br>68     |                | r pump<br>00p        |            | JBLE<br>CTION  | 800                | 130               | 60%                   | 4                                      | 0              | 1750                       | 480          | 3                | B &                     | G, VSC,       | 8 x 8 x 13B  | 5.                  | Ш                    |   | <u>م</u>   |
| H RM.<br>68     |                | r pump<br>Oop        |            | UBLE   | 800                | 130               | 60%                   | 4                                      | ю              | 1750                       | 480          | 3                | В &                     | : G, VSC,     | 8 x 8 x 13B  |                     | DRAWN                | A TH<br>A PH                              |  |
| er RM<br>167    | 1. H<br>W/     | HOT<br>ATER          | e<br>Su(   | ND<br>CTION  | 285                | 30                | 70%                   |  | 3              | 1750                       | 480          | 3                |                         | B&G, 15       | 510, 4 AC  |                     | V                    |   |  |
| :H RM.<br>168   |                | OND.<br>ATER         |            | UBLE<br>CTION  | 800                | 133               | 60%                   | 4                                      | 10             | 1750                       | 480          | 3                | B &                     | : G, VSC,     | 8 x 8 x 13B  |                     | <b>V</b> A           |   |  |
|                 |                |                      |            |  |                    |                   |                       |  |                |                            |              |                  |                         |               |  |                     |                      |   |  |
|                 |                |                      |            |  |                    |                   |                       | · ·                                    |                |                            |              |                  |                         |               |  |                     |                      |   |  |
|                 |                |                      |            |  |                    |                   |                       |  |                |                            |              |                  |                         |               |  |                     | S                    |   |  |
| D               | LO             | OP                   | HE         | AT   | PL                 | JMF               | ° S                   | CH                                     | ED             | ULE                        | •            |                  |                         |               |  | •                   |                      | •   |  |
| NDITIC<br>EATIN |                | P.D.                 |            | AIR CON<br>DOLING  |                    |                   | CITY<br>HEATING       | 3                                      | I              | F/<br>EXT. S.F<br>IN. WATI | NS<br>TOT. E | ST. S.P.         | ELEC. S                 |               | CLIMATE MAST   |                     | D                    |   |  |
| T               | _VG. • F       | FT. H <sub>2</sub> 0 |            | EWB  | ИВН<br>Г.С.<br>119 | MBH<br>S.C.<br>91 | EDB N                 | ивн<br>125                             | HP<br>2        | IN. WATI<br>(EST.)<br>1.0  | ER IN. W     |                  | VOLTS<br>480            | PHASE<br>3    | MODEL NO.  | · · ·               | <br>上<br>王           | PING                                      | -  |
|                 | 58<br>58       | 13.5<br><br>16.8     | 80         |  | 100                | 78                |                       |  | 2<br>  1/2     | 1.0                        |              |                  | 480                     | 3             | V-120  | · ·                 | S<br>S               | GAS PIPING                                |  |
|                 | 58             | 16.8                 | 80         | 67   | 100                | 78                | 70                    | 104 1                                  | 1 1/2          | 1.0                        |              | -                | 480                     | 3             | V-100  |                     |                      | REMOVE                                    |  |
|                 | 58             | 16.8                 | 80         |  | 100                | 78                |                       |  | 1 1/2          | 1.0<br>1.0                 |              | -                | 480<br>480              | 3<br>3        | V-100<br>V-100   |                     |                      | ~~  |  |
|                 | 58<br>58       | 16.8<br>16.8         | 80<br>80   |  | 100<br>100         | 78<br>78          |                       |  | 1 1/2<br>1 1/2 | 1.0                        |              | -                | 480                     | 3             | V-100<br>V-100   |                     | RM                   | <b>PIPING</b>                             |  |
|                 | 58             | 16.8                 | 80         | 67   | 100                | 78                | 70                    | 104                                    | 1 1/2          | 1.0                        |              | _                | 480                     | 3             | V-100  |                     |                      |   |  |
|                 | 58             | 16.8                 | . 80       |  | 100                | 78                |                       |  | 1 1/2          | 1.0                        |              | -                | 480                     | 3             | V-100  |                     |                      | 8/2/89FUE                                 |  |
|                 | 58<br>58       | 16.8<br>16.8         | 80<br>80   |  | 100<br>100         | 78<br>78          |                       |  | 1 1/2<br>1 1/2 | 1.0<br>1.0                 |              |                  | 480 <sup>.</sup><br>480 | 3<br>3        | V-100<br>V-100   | 01<br>4<br>83<br>83 |                      |   |  |
|                 | 58             | 16.8                 | 80         |  | 100                | 78                |                       |  | 1 1/2          | 1.0                        |              | -                | 480                     | 3             | V100   |                     |                      | <u>tt</u>                                 | <b>b</b>   |
|                 | 58             | 16.8                 | 80         |  | 100                | 78                |                       | 104                                    | 1 1/2          | 1.0                        |              |                  | 480                     | 3             | V-100  |                     |                      |   |  |
| · · · · ·       | 58<br>58       | 12.8<br>12.8         | 80         | 67<br>67   |                    | 47.5<br>47.5      |                       | 74.5<br>74.5                           | 1              | 0.5<br>0.5                 |              |                  | 480<br>480              | 3             | 813-060<br>813-060   | H<br>U<br>H         |                      |   |  |
| · · · ·         | 58<br>58       | 20.3                 | .80<br>.80 |  | 62<br>292          | 47.5<br>222       |                       | 74.5<br>306                            | 3              | 1.2                        |              | _                | 480                     | 3             | V-300  | RU                  | 6                    | Σ.  | -  |
| )               | 58             | 12.6                 | 80         | 67   | 252                | 17.5              | 70                    | 33.4                                   | 1/4            | 0.5                        |              | -                | 208                     | 1             | 803-024  | TST                 | SCHOO                | STEM                                      |  |
|                 | 58             | 12.8                 | 80         | 67   | 67                 | 47.5              |                       | 74.5                                   | 1              | 0.5                        |              |                  | 480<br>480              | 3<br>3        | 813-060<br>V-100   | CONSTRU             | SC                   | N √                                       | .  |
| ;<br>;          | 58<br>         | 16.8<br>16.8         | 80<br>80   | 67<br>67   | 100<br>100         | 78<br>78          | 70<br>70              |  | 1 1/2<br>1 1/2 | 1.0<br>1.0                 |              |                  | 480<br>480              | 3             | V-100<br>V-100   |                     |                      | OOLIN                                     |  |
| ;               | 58             | 12.8                 | 80         | 67   | 62                 | 47.5              |                       | 74.5                                   | 1 1/2          | 0.5                        |              |                  | 480                     | 3             | 813060   |                     | ARY                  | A R A                                     |  |
| ;               | 58             | 16.8                 | 80         | 67   | 100                | 78                |                       | 104                                    | 1              | 1.0                        |              |                  | 480                     | 3             | V100   |                     |                      | ωŪ  |  |
| ;<br>;          | 58<br>58       | 8.7<br>13.5          | 80<br>80   | 67<br>67   | 18.8<br>235        | 13.8              | 70<br>70              | 21.9<br>251                            | 1/6<br>2       | 0.5                        |              | -                | 208<br>480              | 1             | 803-019<br>V-240   | ANCE                | EMENT                | NORTH                                     | ·<br>·   |
| )<br>j          | 58             | 13.5                 | 80         | 67   | 62<br>62           | 47.5              |                       | 74.5                                   |                | 0.5                        |              | -                | 480                     | 3             | 813-060  | - Ad                |                      | PU<br>NO                                  |  |
| 5               | 58             | 5.5                  | 80         | 67   | 14.3               | 10.3              | 70                    | 18.1                                   | 1/12           | 0.4                        |              | -                | 208                     | 1             | 803015   | — X                 |                      | F H                                       | •  |
| 5               | 58             | 8.7                  | 80         | 67   | 18.8               | 13.8              | 70                    | 21.9                                   | 1/6            | 0.4                        |              | -                | 208                     | 1             | 803-019  |                     | OAC                  |   |  |
| 5<br><br>5      | 58<br><br>58   | 8.7<br>22.3          | 80<br>80   | 67<br>67   | 18.8<br>41.0       | 13.8<br>31        | 70<br>70              | 21.9<br>42.5                           | 1/6<br>1/2     | 0.4                        |              | - ·              | 208<br>480              | 1<br>3        | 803-019<br>813-042   |                     | R                    | OR  |  |
| 5               | 58             | 22.3                 | 80         | 67   | 41.0               | 31                | 70                    | 42.5                                   | 1/2            | 0.4                        |              | -                | 480                     | 3             | 813-042  |                     |                      | Т<br>П                                    |  |
| 5               | 58             | 16.8                 | 80         | 67   | 199                | 156               | 70                    | 208                                    | 1 1/2          |                            |              |                  | 480                     | 3             | V-200  |                     | RAND                 | M A                                       |  |
| 5               | 58             | 16.8                 | 80         | 67 .<br>67   | 199<br>35.6        | 156<br>26.6       | 70<br>70              | 208<br>40.5                            | 1 1/2<br>1/2   | 1.2                        |              | -                | 480<br>480              | 3             | V-200<br>813-036   | Ц<br>С              |                      |   |  |
| 5<br>5          | 58<br>58       | 20.5<br>12.6         | 80<br>80   | 67<br>67   | 25.2               | 17.5              | 70                    | 40.5<br>33.4                           | 1/2            | 0.4                        |              | -                | 208                     | 1             | 803-024  | —                   |                      |   |  |
|                 |                |                      | R          | EV   |                    | ED                | <u> </u>              | ······                                 | <u>i</u>       | L                          | 2.           | 198              |                         | . <b>I</b>    | <b>i</b>   | O                   |                      |   |  |
|                 |                |                      |            | Internation of the second seco | CARO               | Hear              | fin in                |  |                |                            | 1            |                  |                         | • .           |  |                     |                      |   |  |
|                 |                | (                    | Multinin,  | 978<br>978   | SAL A              |                   |                       |  |                | DOU                        | JGLAS        |                  |                         |               | SOCIATE  | S, P.A.             | M-                   | -6R                                       |  |
|                 |                |                      | 1.67       | V  | Ma V               | <u>t</u> jë       |                       |  |                |                            |              | CONSUL           |                         |               |  |                     | I I I I              | <b>~!</b> }                               |  |
|                 |                |                      | P          | 1. De  | INE                | 24                |                       | , <b>11.</b>                           | · · ·          | 3719 1                     | JENSON DR    | IVE * RA         | LEIGH. NO               | RTH CARO      | LINA 27609 •   | 919-876-1922        |                      |   | a sectorial.<br>National de la companya de la company |
|                 |                |                      |            | GLA  | INE S Y. P         | P. C. Martin      | ey<br>gynjas ame      |  |                | 3719 1                     | jenson dr    | IVE + RA         | LEIGH. NO               | RTH CARO      | LINA 27609 •   | 919-878-1922        |                      | L 20, 19                                  |  |

| •   | ;   |  |  |   |  |   |   | ¥<br>   |  |   |  |          |  |  |                                     |  |  |  |   |                          |
|---|---|--|--|---|--|---|---|---|--|---|--|----------|--|--|-------------------------------------|--|--|--|---|--------------------------|
|   |   |  |  | G   | RIL  | LE  | &   | DI  | FFU  | SER   | SC   | HE       | DULE   |  |                                     | <u> </u>   |  |  |   |                          |
|   | <i></i>   | SYM  | BOL  |   | TYPE   |   |   | SE  | RVICE  | P   | ANEL SIZE  |          | NECKSI   | ZE   | CF                                  | M and the second se |  |  |   |                          |
|   |   | · /  | L  | OUVER   | FACE   |   |   |   | PLY  |   | 24 x 24  |          | 6 x (  |  | 50-                                 |  | · · · ·  |  |   |                          |
|   |   | f  |  | OUVER   |  |   |   |   | PLY  |   | 24 x 24  |          | ⇒ 9 x 9  |  | 130-                                |  | *  |  |   |                          |
|   |   | (  |  | OUVER   |  |   |   | ·····   |  |   | 24 x 24  |          | 12 x 1   |  | . 300-                              |  |  |  |   |                          |
|   |   |  |  |   | •••••  |   |   |   | PPLY<br>PPLY   |   | 24 x 24<br>24 x 24   |          | 15 x 1   |  | 550-<br>800-                        | ···· , ··· ,   |  |  |   |                          |
|   |   |  | ·····  | LOUVER<br>PERFOR  |  | ACF   |   |   |  |   | 24 x 24  |          | 6 x (  |  | 500                                 |  |  |  | - 00  | Q                        |
|   |   |  |  | PERFOR  |  |   |   |   | TURN   |   | 24 x 24  |          | 8 x 8  |  | 130-                                |  |  |  | F, P.A.                                     |                          |
|   |   |  |  | PERFOR  |  |   |   | RET   | TURN   |   | 24 x 24  |          | 9 x 9  | 9  | 230-                                | -280   |  |  |   |                          |
| • .   |   |  | 1 1  | PERFOR  | ATED F   | ACE   |   | RET   | TURN   | :   | 24 x 24  |          | 10 x "   | 10   | 280-                                | -350   | di na je<br>na serie   |  | U<br>S                                      |                          |
| •<br>• •  | . <sup>1</sup> .  |  | < · · · · ·  | PERFOR  | ATED F   | FACE  | •   | RET   | TURN   |   | 24 x 24  |          | 12 x   | 12   | 350-                                | -550   | * .<br>• • •   |  |   |                          |
|   |   | · · · · · · · · · · · · · · · · · · ·  | · · · · · · · · · · ·  | PERFOR  | ATED F   | ACE   |   | REI   | TURN   |   | 24 x 24  |          | 15 x   | 15   | 550-                                | -800   |  |  | PEA   |                          |
|   | •••   | -  | 4 1  | PERFOR  | ATED F   | FACE  |   | REI   | TURN   |   | 24 x 24  |          | 18 x   | 18   | 800-                                | -1150  | -  |  | <b>S</b>                                    |                          |
|   |   |  |  | PERFOR  | ATED F   | FACE  |   |   | TURN   |   | 24 x 24  |          | 22 x   |  | -                                   | -1700  |  |  | ANNA<br>ANNA                                |                          |
|   |   |  |  | LOUVER  |  |   | ·   |   |  |   | 12 X 24  |          | 6 x  |  |                                     | -125   |  |  | AG<br>* r                                   |                          |
|   |   |  | <u></u>  | PERFOR  |  |   |   |   | TURN<br><br>PPLY   |   | 12 X 24  |          | 9 x<br>30 x                                    |  | 230-                                | -280   |  |  |   |                          |
|   |   |  |  | ROTO-L  |  |   |   |   |  |   | <br>   |          | 35 x   |  |                                     | 50   |  |  | E, SAV<br>Architects                        |                          |
|   |   |  |  | BAR GR  | <u>,</u>   | -   |   |   | TURN   |   |  |          | 48 x   |  | 45                                  |  |  |  | LT E  | 25                       |
|   | ~   |  |  | BAR GR  |  |   |   |   | TURN   |   | <u></u>  |          | 36 x   |  | 20                                  | 50   |  | an a | HASKINS, RICE,<br>ARC<br>2515 FAIRVIEW ROAD | 787-9751                 |
|   |   | L  | h  |   |  |   |   |   |  |   |  |          |  |  |                                     |  |  |  |   | 4 CA                     |
|   |   |  | ·  |   |  |   |   |   |  |   | r'   |          |  |  |                                     |  |  |  | NS.   | 0RTH<br>(919)            |
| Г   |   |  |  |   |  |   | Ρι  | JMF   | > S  | CHE   | DUL  | E        |  |  |                                     |  |  |  |   | X, X<br>ONE              |
| F   | PUMP  | LOCATION   | SERVIO   | CE  | TYPE   | : G   |   |   | MIN.   |   |  |          | RIC SERVIC                                     | MANII  | FACTURE                             | ER – MODE  | EL NO.   |  | HASKINS<br>2515 FAIRVIEW                    | raleign, n'<br>Telephone |
|   | NO.   | MECH RM.   | COND   |   | DOUBL  |   |   |   |  | AOTOR HI  |  | VOLT     |  |  |                                     |  |  |  | T 5   | RA<br>Tel                |
| BID   | ·1″   | 168  | WATE   | R   | SUCTIO   | ON S  |   | 60  | 82%  | 20  | 1750   | 480      |  | :  |                                     | X 6 X 9 3  |  | -<br>-                                   |   |                          |
| F   | 2   | MECH RM.<br>168  | HEAT PL<br>LOOF  | >   | DOUBL  | ON <sup>4</sup>   | 300   | 130   | 60%  | 40  | 1750   | 480      | 3  | Bå   | e G, VSC,                           | 8 x 8 x 1  | 3B   |  | DRAWN<br>BE<br>CHECKED<br>A TH              | APPROVED                 |
|   | 3   | MECH RM.<br>168  | HEAT PL  |   | DOUBI  |   | 300   | 130   | 60%  | 40  | 1750   | 480      | 3  | В 8  | e G, VSC,                           | 8 x 8 x 1  | 3B   | :  | DRAWN<br>BE<br>CHECKED<br>A TH              |                          |
|   | 4   | BOILER RM.<br>167  | HOT<br>WATE  | R   | END<br>SUCTIO  |   | 285   | 30  | 70%  | 3   | 1750   | 480      | ) 3  |  | B&G, 1                              | 510, 4 AC  | •  | •  | U   |                          |
| H—1   | 1   | MECH RM.   | COND   | ).  | DOUBI  | LE  | 300   | 133   | 60%  | 40  | 1750   | 480      | ) 3  | B å  | c G, VSC,                           | 8 x 8 x 1  | 3B   |  | Υ<br>Υ                                      |                          |
| Ĺ   | <b>I</b>  |  | 1  |   |  |   | l   | I   | 1  |   |  | <u>.</u> |  |  | . <u> </u>                          |  |  | •  | III   |                          |
|   |   |  |  |   |  |   |   |   |  |   |  |          |  |  |                                     | ν.   |  | <u>.</u>                                 |   |                          |
|   |   | i.   |  |   |  |   |   |   |  |   |  |          |  |  |                                     |  |  | ·  | ഗ   |                          |
|   |   | SED  |  |   |  | <u>т</u> г  |   |   |  | νμгг  | DULE   |          | u,   |  |                                     |  |  | •  |   |                          |
|   |   |  |  |   |  |   |   |   |  |   |  | -<br>ANS |  | ELEC. S  | ERVICE                              |  |  |  |   |                          |
| OOLING  |   | ER CONDITION<br>HEATING  | FT.  | P.D.  | <u> </u>   | LING  |   | ł   | HEATING  |   | EXT. S.<br>IN. WAT   | P. TOT   | . EST. S.P.<br>. WATER                         | VOLTS  | PHASE                               | CLIMATE I<br>MODEL   |  |  |   |                          |
| F LVG.  | . • F E   | ENT. * F   LV<br>65  | /G. • F  | <u> </u>  | DB EW<br>80 67   | 1.0.  |   |   | DB ME<br>70 12   |   | (EST.)<br>1.0  | IN       | . WAIER  | 480  | 3                                   | V1:  | 20   | •  |   |                          |
|   | 00  | 65   |  |   | 80 67  |   | 7   |   | 70 10  |   |  |          |  | 480  | 3                                   | V10  |  |  | S S P                                       |                          |
| 1(  | 00  | 65   | 58 1   | 16.8  | 80 67  | 7 100   | 7   | 87  | 70 10  | )4  1 1/2   | 2 1.0  |          |  | 480  | 3                                   | V-1(   | 00   | •  | REMOVE                                      |                          |
| 1(  | 00  | 65   | 58 1   | 16.8  | 80 63  | 7 100   | 7   | 87  | 70 10  | 04 1 1/2  | 2 1.0  |          | -  | 480  | 3                                   | V-1(   | 00   |  | . ~   |                          |
| 1(  | 00  | 65   |  |   | 80 67  |   |   |   |  | 04 1 1/2  |  |          |  | 480  | 3                                   | V1   |  |  | PIPING<br>PIPING                            |                          |
|   | 00  | 65   |  |   | 80 6   |   |   |   |  | $1 \frac{1}{2}$   |  |          |  | 480<br>480   | 33                                  | V-1  |  |  |   |                          |
|   | 00  | 65<br>65   |  |   | 80 6<br>80 6   | <u></u>   |   |   |  | 04   1 1/2<br>04   1 1/2  |  |          |  | 480  | 3                                   | V-1  |  |  |   |                          |
|   | 00  | 65   |  |   | 80 6   |   | _   |   |  | 04 1 1/2  |  |          | <u></u>  | 480 <sup>.</sup>   | 3                                   | V-1  | 00   |  | AECH.                                       |                          |
|   | 00  | 65   | 58   | 16.8  | 80 6   | 7 100   | 7   | 78 7  | 70 1   | 04 1 1/2  | 2 1.0  |          | <u>+ + + + + + + + + + + + + + + + </u>        | 480  | 3                                   | V-1  | 00   | 4  | ZK  |                          |
| 1   | 00  | 65   | 58   | 16.8  | 80 6   | 7 100   | 7   | 78 7  | 70 1   | 04 1 1/   | 2 1.0  |          |  | 480  | 3                                   | V1   | 00   | <b>S</b>                                 |   |                          |
| 1   | 00  | 65   | 58   | 16.8  | 80 6   | 7 100   | 7   | 78 7  | 70 1   | 04 1 1/   | 2 1.0  |          |  | 480  | 3                                   | V-1  | 00   | NO                                       |   |                          |
|   | 00  | 65   |  |   | 80 6   |   |   |   |  | 4.5 1   | 0.5  |          |  | 480  | 3                                   | 813-   |  | CT                                       |   |                          |
|   | 00  | 65<br>65   |  |   | 80 6<br>80 6   |   | <u> </u>  |   |  | 4.5 1<br>06 3   | 0.5  |          |  | 480<br>480   | 3                                   | 813-<br>V-3  |  |  | , ~   | •                        |
|   | 00  | 65   |  |   | 80 6   |   |   |   |  | 3.4 1/4   |  |          |  | 208  | 1                                   | 803-   |  | STR                                      | <b>SCHOOI</b><br>SYSTEM                     |                          |
|   | 00  | 65   |  |   | 80 6   |   |   |   | ·  | 4.5 1   | 0.5  | ·        |  | 480  | 3                                   | 813-   | -060   | Ň  |   |                          |
| 1   | 00  | 65   | 58   | 16.8  | 80 6   | 67 100  | ) 7   | 78  | 70 1   | 04 1 1/   | 2 1.0  |          |  | 480  | 3                                   | V1   | 00   | U U                                      |   | NA<br>N                  |
|   | 00  | 65   | 58   | 16.8  | 80 6   | 67 100  |   | 78  |  | 04   1 /  |  |          | <b></b>  | 480  | 3                                   | V1   |  | 두  |   | SOLIN                    |
| 1   | 1   | 05   | 58   |   |  | 62  |   |   |  | 4.5 1 1/  |  |          | <b></b>  | 480  | 3                                   | 813-   |  | ×.                                       |   | CAR                      |
| 1   |   | 65<br>. or   | I  | 16.8  |  | 67 100<br>67 18.  |   |   |  | 04 1<br>1.9 1/6   | 1.0<br>5 0.5   |          |  | 480<br>208   | 3                                   | V1<br>803-   |  | ы  |   |                          |
| 1   | 100   | 65   |  | 87  |  | - 10,   |   |   |  | 251 2   | 1.2  |          |  | 480  | 3                                   | V-2  |  | ANC                                      |   | ORTH                     |
| 1   |   |  | 58   | 8.7<br>13.5   |  | 57 23   | - 1 -   |   |  | 4.5 1   | 0.5  |          | <del></del>                                    | 480  | 3                                   | 813-   | ·····  |  |   | Z                        |
| 1   | 100   | 65<br>65   | 58<br>58   |   | 80 6   | 67 23<br>67 62  |   | 7.5   | /  |   | 1  |          |  |  | [                                   |  | -060   |  |   |                          |
| 1<br>1<br>1<br>1<br>1<br>1  | 100   | 65<br>65<br>65   | 58<br>58   | 13.5  | 80 6<br>80 6   | ··  | 4   |   |  | 8.1 1/1   | 2 0.4  |          | -  | 208  | 1                                   | 803-   |  | SORD                                     |   |                          |
| 1<br>1<br>1<br>1<br>1<br>1<br>1   | 100<br>100<br>100<br>100  | 65<br>65<br>65<br>65   | 58<br>58<br>58   | 13.5<br>12.8  | 80 66<br>80 66<br>80 66  | 57 62   | 4<br>3 1  | 0.3   | 70 1   | 1.9 1/6   | 3 0.4  |          |  | 208  | 1                                   | 803-   | -015<br>-019   | CCO<br>CCO                               | AD E  | EIGH,                    |
| 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1  | 100<br>100<br>100<br>100<br>100<br>100  | 65<br>65<br>65<br>65<br>65<br>65<br>65<br>65   | 58       58       58       58       58       58       58       58       58       58       58   | 13.5       12.8       5.5       8.7       8.7   | 80       6         80       6         80       6         80       6         80       6         80       6         80       6         80       6  | 57         62           57         14.           57         18.           37         18.  | 4<br>3 1<br>8 1<br>8 1  | 0.3<br>3.8<br>3.8   | 70     1       70     2       70     2       70     2  | 1.9 1/6<br>1.9 1/6  | 5 0.4<br>5 0.4   |          |  | 208<br>208   | 1 1 -                               | 803-   | -015<br>-019<br>-019   | ACCO                                     | ROAD E                                      | EIGH,                    |
| 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1  | 100<br>100<br>100<br>100<br>100<br>100  | 65<br>65<br>65<br>65<br>65<br>65<br>65<br>65   | 58       58       58       58       58       58       58       58       58       58       58       58       58   | 13.5       12.8       5.5       8.7       8.7       22.3                                      | 80       6         80       6         80       6         80       6         80       6         80       6         80       6         80       6         80       6         80       6         80       6         80       6  | 57         62           57         14.           57         18.           57         18.           57         41.   | 4<br>3 1<br>8 1<br>8 1<br>0   | 0.3<br>3.8<br>3.8<br>31                                     | 70     1       70     2       70     2       70     2       70     4   | 1.9 1/6<br>1.9 1/6<br>2.5 1/2   | 3     0.4       3     0.4       2     0.5  |          |  | 208<br>208<br>480  | 1<br>1<br>1<br>3<br>3               | 803-<br>803-<br>   | -015<br>-019<br>-019<br>-042   | CCO<br>CCO                               | ROAD E                                      | RALEIGH,                 |
| 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1   | 100<br>100<br>100<br>100<br>100<br>100<br>100<br>100  | 65<br>65<br>65<br>65<br>65<br>65<br>65<br>65<br>65<br>65   | 58       58       58       58       58       58       58       58       58       58       58       58       58       58  | 13.5         12.8         5.5         8.7         8.7         22.3         22.3               | 80       6         80       6         80       6         80       6         80       6         80       6         80       6         80       6         80       6         80       6         80       6         80       6         80       6         80       6  | 57         62           57         14.           57         18.           57         18.           57         18.           57         41.           57         41.   | 4<br>3 1<br>8 1<br>8 1<br>0<br>0  | 0.3<br>3.8<br>3.8<br>31<br>31                               | 70     1       70     2       70     2       70     2       70     4       70     4  | 1.9 1/6<br>1.9 1/6<br>2.5 1/2<br>2.5 1/2  | 3     0.4       3     0.4       2     0.5       2     0.4  |          |  | 208<br>208   | 1<br>1<br>3<br>3<br>3               | 803-<br>803-<br>813-<br>813-   | -015<br>-019<br>-019   | IN ACCO                                  | D ROAD E                                    | RALEIGH,                 |
| 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                | 100<br>100<br>100<br>100<br>100<br>100  | 65<br>65<br>65<br>65<br>65<br>65<br>65<br>65   | 58       58       58       58       58       58       58       58       58       58       58       58       58   | 13.5       12.8       5.5       8.7       8.7       22.3                                      | 80       6         80       6         80       6         80       6         80       6         80       6         80       6         80       6         80       6         80       6         80       6         80       6         80       6         80       6         80       6         80       6         80       6   | 57         62           57         14.           57         18.           57         18.           57         41.   | 4<br>3 10<br>8 1.<br>8 1.<br>0 0<br>9 1   | 0.3<br>3.8<br>3.8<br>31<br>31<br>156                        | 70     1       70     2       70     2       70     2       70     4       70     4       70     2   | 1.9 1/6<br>1.9 1/6<br>2.5 1/2   | 3     0.4       3     0.4       2     0.5       2     0.4       /2     1.2   |          |  | 208<br>208<br>480<br>480   | 3                                   | 803-<br>803-<br>813-<br>813-<br>V  | -015<br>-019<br>-019<br>-042<br>-042   | IN ACCO                                  | D ROAD E                                    | RALEIGH,                 |
| 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                     | 100<br>100<br>100<br>100<br>100<br>100<br>100<br>100  | 65<br>65<br>65<br>65<br>65<br>65<br>65<br>65<br>65<br>65<br>65   | 58         58 | 13.5         12.8         5.5         8.7         22.3         16.8                           | 80       6         80       6         80       6         80       6         80       6         80       6         80       6         80       6         80       6         80       6         80       6         80       6         80       6         80       6         80       6         80       6         80       6         80       6  | 57         62           57         14.           57         18.           57         18.           57         41.           57         41.           57         19  | 4<br>3 1<br>8 1<br>8 1<br>0<br>0<br>9 1<br>9 1  | 0.3<br>3.8<br>3.8<br>31<br>31<br>156<br>156                 | 70     1       70     2       70     2       70     2       70     4       70     4       70     2       70     2       70     4       70     2       70     2       70     2       70     2                               | 1.9     1/6       1.9     1/6       2.5     1/2       2.5     1/2       208     1                                       | 3     0.4       3     0.4       2     0.5       2     0.4       /2     1.2       /2     1.2  |          |  | 208<br>208<br>480<br>480<br>480  | 3                                   | 803-<br>803-<br>813-<br>813-<br>V-:  | -015<br>-019<br>-019<br>-042<br>-042<br>200  | IN ACCO                                  | D ROAD E                                    | RALEIGH,                 |
| 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                | 100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100  | 65<br>65<br>65<br>65<br>65<br>65<br>65<br>65<br>65<br>65<br>65<br>65   | 58         58 | 13.5         12.8         5.5         8.7         8.7         22.3         16.8         16.8  | 80       6         80       6         80       6         80       6         80       6         80       6         80       6         80       6         80       6         80       6         80       6         80       6         80       6         80       6         80       6         80       6         80       6         80       6  | 57       62         57       14.         57       18.         57       18.         57       18.         57       41.         57       41.         57       19         57       19   | 4       3     1       8     1       8     1       0     1       0     1       9     1       9     1       6     2               | 0.3<br>3.8<br>3.8<br>31<br>31<br>156<br>156<br>26.6         | 70     1       70     2       70     2       70     2       70     4       70     4       70     2       70     4       70     2       70     2       70     4       70     2       70     4       70     4       70     4 | 1/6       1/6       2.5       1/2       2.5       1/2       2.5       1/2       208       1       208       1       1/2 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$  |          |  | 208<br>208<br>480<br>480<br>480<br>480<br>480                                    | 3<br>3<br>3                         | 803-<br>803-<br>813-<br>813-<br>V  | -015<br>-019<br>-019<br>-042<br>-042<br>200<br><b>20</b> 0                         | IN ACCO                                  | D ROAD E                                    | RALEIGH,                 |
|   | 100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100 | 65         65 | 58         58 | 13.5         12.8         5.5         8.7         22.3         16.8         16.8         20.5 | 80       6         80       6 | 57       62         57       14.         57       18.         57       18.         57       41.         57       41.         57       19         57       19         57       35  | 4       3     1       8     1       8     1       8     1       0     1       0     1       9     1       6     2       2     1 | 0.3<br>3.8<br>3.8<br>31<br>31<br>156<br>156<br>26.6<br>17.5 | 70     1       70     2       70     2       70     2       70     4       70     4       70     2       70     4       70     2       70     4       70     2       70     3  | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$   | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$  |          |  | 208<br>208<br>480<br>480<br>480<br>480<br>480<br>480                             | 3<br>3<br>3                         | 803-<br>803-<br>813-<br>813-<br>V  | -015<br>-019<br>-019<br>-042<br>-042<br>200<br>200<br>-036                         | ACCO                                     | D ROAD E                                    | RALEIGH,                 |
| 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                     | 100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100 | 65         65 | 58         58 | 13.5         12.8         5.5         8.7         22.3         16.8         16.8         20.5 | 80       6         80       6 | 57       62         57       14.         57       18.         57       18.         57       18.         57       41.         57       41.         57       19         57       19         57       35         67       25 | 4       3     1       8     1       8     1       8     1       0     1       0     1       9     1       6     2       2     1 | 0.3<br>3.8<br>3.8<br>31<br>31<br>156<br>156<br>26.6<br>17.5 | 70     1       70     2       70     2       70     2       70     4       70     4       70     2       70     4       70     2       70     4       70     2       70     3  | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$   | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$  |          |  | 208<br>208<br>480<br>480<br>480<br>480<br>480<br>208                             | 3<br>3<br>3                         | 803-<br>803-<br>813-<br>813-<br>V  | -015<br>-019<br>-019<br>-042<br>-042<br>200<br>200<br>-036                         | IN ACCO                                  | D ROAD E                                    | RALEIGH,                 |
| 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | 100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100 | 65         65 | 58         58 | 13.5         12.8         5.5         8.7         22.3         16.8         16.8         20.5 | 80       6         80       6 | 57       62         57       14.         57       18.         57       18.         57       18.         57       41.         57       41.         57       19         57       19         57       35         67       25 | 4       3     1       8     1       8     1       8     1       0     1       0     1       9     1       6     2       2     1 | 0.3<br>3.8<br>3.8<br>31<br>31<br>156<br>156<br>26.6<br>17.5 | 70     1       70     2       70     2       70     2       70     4       70     4       70     2       70     4       70     2       70     4       70     2       70     3  | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$   | 3     0.4       3     0.4       3     0.4       2     0.5       2     0.4       /2     1.2       /2     1.2       /2     0.4       4     0.4       JST | 2        | -<br>-<br>-<br>-<br>-<br>-<br>-<br>19<br>AS Y. | 208<br>208<br>480<br>480<br>480<br>480<br>480<br>208<br><b>89</b><br><i>PERR</i> | 3<br>3<br>3<br>1<br>Y AS            | 803-<br>803-<br>813-<br>813-<br>V-2<br>813-<br>803-<br>803-  | -015<br>-019<br>-019<br>-042<br>-042<br>200<br>200<br>-036<br>-024                 | CORRECTED IN ACCO                        | RAND ROAD E<br>WAKE COUNTY                  | RALEIGH,                 |
| 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | 100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100 | 65         65 | 58         58 | 13.5         12.8         5.5         8.7         22.3         16.8         16.8         20.5 | 80       6         80       6 | 57       62         57       14.         57       18.         57       18.         57       18.         57       41.         57       41.         57       19         57       19         57       35         67       25 | 4       3     1       8     1       8     1       8     1       0     1       0     1       9     1       6     2       2     1 | 0.3<br>3.8<br>3.8<br>31<br>31<br>156<br>156<br>26.6<br>17.5 | 70     1       70     2       70     2       70     2       70     4       70     4       70     2       70     4       70     2       70     4       70     2       70     3  | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$   | 3     0.4       3     0.4       3     0.4       2     0.5       2     0.4       /2     1.2       /2     1.2       /2     0.4       4     0.4       JST |          | -<br>-<br>-<br>-<br>-<br>-<br>-                | 208<br>208<br>480<br>480<br>480<br>480<br>480<br>208<br>89<br>PERR<br>JLTING 1   | 3<br>3<br>3<br>1<br>Y AS<br>ENGINEE | 803-<br>803-<br>813-<br>813-<br>V-2<br>813-<br>803-<br>803-  | -015<br>-019<br>-019<br>-042<br>-042<br>200<br>200<br>-036<br>-024<br><i>TES</i> , | CORRECTED IN ACCO                        | P-W<br>WAKE COUNTY                          | RALEIGH,                 |
| 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | 100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100 | 65         65 | 58         58 | 13.5         12.8         5.5         8.7         22.3         16.8         16.8         20.5 | 80       6         80       6 | 57       62         57       14.         57       18.         57       18.         57       18.         57       41.         57       41.         57       19         57       19         57       35         67       25 | 4       3     1       8     1       8     1       8     1       0     1       0     1       9     1       6     2       2     1 | 0.3<br>3.8<br>3.8<br>31<br>31<br>156<br>156<br>26.6<br>17.5 | 70     1       70     2       70     2       70     2       70     4       70     4       70     2       70     4       70     2       70     4       70     2       70     3  | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$   | 3     0.4       3     0.4       3     0.4       2     0.5       2     0.4       /2     1.2       /2     1.2       /2     0.4       4     0.4       JST |          | -<br>-<br>-<br>-<br>-<br>-<br>-                | 208<br>208<br>480<br>480<br>480<br>480<br>480<br>208<br>89<br>PERR<br>JLTING 1   | 3<br>3<br>3<br>1<br>Y AS<br>ENGINEE | 803-<br>803-<br>813-<br>813-<br>V-:<br>813-<br>803-<br>803-<br>2 <i>SOCIA</i> :<br>ERS                         | -015<br>-019<br>-019<br>-042<br>-042<br>200<br>200<br>-036<br>-024<br><i>TES</i> , | CORRECTED IN ACCO                        | P-W<br>WAKE COUNTY                          | RALEIGH,                 |

| Image: State of the state | RIC SERVICE         PHASE STARTER         3         QUIRED. (ALT. H–1)         RESS. DROP NOZZLE         15.0 PSI         14.4 PSI  | SYMBOLTYPEALOUVER FACEBLOUVER FACECLOUVER FACEDLOUVER FACEELOUVER FACEFPERFORATED FACEGPERFORATED FACEJPERFORATED FACEJPERFORATED FACEKPERFORATED FACEMPERFORATED FACEMPERFORATED FACENPERFORATED FACEQPERFORATED FACEQPERFORATED FACERROTO-LOUVERTROTO-LOUVERVBAR GRILLE   | DIFFUSERSCHESERVICEPANEL SIZESUPPLY24 × 24SUPPLY24 × 24SUPPLY24 × 24SUPPLY24 × 24RETURN24 × 24SUPPLY12 X 24SUPPLY-SUPPLY-SUPPLY-RETURN-MPSCHEDULETMPSCHEDULE  | NECKSIZECFM $6 \times 6$ $50-125$ $9 \times 9$ $130-280$ $12 \times 12$ $300-550$ $15 \times 15$ $550-800$ $18 \times 18$ $800-1150$ $6 \times 6$ $50-125$ $8 \times 8$ $130-230$ $9 \times 9$ $230-280$ $10 \times 10$ $280-350$ $12 \times 12$ $350-550$ $15 \times 15$ $550-800$ $18 \times 18$ $800-1150$ $22 \times 22$ $1150-1700$ $6 \times 6$ $50-125$ $9 \times 9$ $230-280$ $30 \times 15$ $900$ $35 \times 10$ $750$ $48 \times 36$ $4500$ $36 \times 24$ $2050$  |   | ASKINS, RICE, SAVAGE & PEARCE, P.A.<br>ARCHITECTS & PLANNERS<br>16 FAIRVIEW ROAD<br>LEIGH, NORTH CAROLINA<br>LEPHONE (919) 787-9751 |
|--|---|---|---|--|---|---|
| FAN         SCHEDULE           LOCATION         SERVICE         MANUF.         MODEL         CFJM         STAT         MAX         MAX         ELECTRC SERVICE           LOCATION         SERVICE         MANUF.         MODEL         CFJM         STAT         MAX         MAX         ELECTRC SERVICE           CELING         FNL 201         GREEDHECK         SP-25         208         0.150         1500         -         DRECT         1/46         1/20         1         EMCS           CELING         FNL 201         GREEDHECK         SP-85         84         0.150         1500         -         DRECT         1/22         1         EMCS           CELING         RNL 192A         GREEDHECK         SP-8         84         0.150         1550         -         DRECT 1/125         1/20         1         EMCS           CELING         RNL 192A         GREEDHECK         SP-8         84         0.150         1550         -         DRECT 1/125         1/20         1         EMCS           CELING         RNL 193A         GREEDHECK         SP-8         84         0.150         1556         -         DRECT 1/125         1/20         1         EMCS           CELI   | LOCATION         Fraction No. Columbra         MIN Columbra         GPM Columbra         Columbra <thcolumbra< th=""> <thcolumbra< th="">         C</thcolumbra<></thcolumbra<> | RM.         COND.<br>WATER         DOUBLE<br>SUCTION         800           RM.         HEAT PUMP<br>LOOP         DOUBLE<br>SUCTION         800           RM.         HEAT PUMP<br>LOOP         DOUBLE<br>SUCTION         800           RM.         HEAT PUMP<br>LOOP         DOUBLE<br>SUCTION         800           RM.         COND.<br>WATER         DOUBLE<br>SUCTION         800           RM.         COND.<br>WATER         DOUBLE<br>SUCTION         800           DITION<br>TING         P.D.<br>FT. Hao         ENT. AIR CONDITION 8<br>COOLING         800           DITION<br>STING         P.D.<br>FT. Hao         ENT. AIR CONDITION 8<br>COOLING         MBH         MBH           STING         P.D.<br>SS8         16.8         80         67         100         2010           S58         16.8         80         67         100         2010         201 | MP       SCHEDULE         CAPACITY       FANS         HEATING       EXT. S.P. IN. WATER TO         BH       EDB       MBH       HP         BH       EXT. S.P. IN. WATER TO         CAPACITY       FANS         BH       EXT. S.P. IN. WATER TO         BH       FANS         CAPACITY       FANS         BH       EXT. S.P. IN. WATER TO         BH       FANS         CAPACITY       FANS         BH       EXT. S.P. IN. WATER TO         ID       IN. WATER TO         70       125       2       1.0       1         78       70       104       1 1/2       1.0       1         78       70       104       1 1/2       1.0       1         78       70       104       1 1/2       1.0       1         78       70       104       1 1/2       1.0       1         78       70       104       1 1/2       1.0       1         78       70       104       1 1/2       1.0 <td>0         3         B &amp; G, VSC 6 X 6 X 9 3           0         3         B &amp; G, VSC, 8 x 8 x 13           0         3         B &amp; G, VSC, 8 x 8 x 13           0         3         B &amp; G, VSC, 8 x 8 x 13           0         3         B &amp; G, VSC, 8 x 8 x 13           0         3         B &amp; G, VSC, 8 x 8 x 13           0         3         B &amp; G, VSC, 8 x 8 x 13           0         3         B &amp; G, VSC, 8 x 8 x 13           0         3         B &amp; G, VSC, 8 x 8 x 13           0         3         B &amp; G, VSC, 8 x 8 x 13           0         3         B &amp; G, VSC, 8 x 8 x 13           0         3         B &amp; G, VSC, 8 x 8 x 13           0         3         B &amp; G, VSC, 8 x 8 x 13           0         3         B &amp; G, VSC, 8 x 8 x 13           0         3         B &amp; G, VSC, 8 x 8 x 13           0         3         V-10           -         480         3           0         3         V-10           -         480         3           0         -         480         3           0         -         480         3           0         -         480         3</td> <td>4         3B         AASTER         NO.         3O         3O     &lt;</td> <td>Y SCHOOL<br/>DL SYSTEM<br/>DL SYSTEM<br/>LINA</td> | 0         3         B & G, VSC 6 X 6 X 9 3           0         3         B & G, VSC, 8 x 8 x 13           0         3         B & G, VSC, 8 x 8 x 13           0         3         B & G, VSC, 8 x 8 x 13           0         3         B & G, VSC, 8 x 8 x 13           0         3         B & G, VSC, 8 x 8 x 13           0         3         B & G, VSC, 8 x 8 x 13           0         3         B & G, VSC, 8 x 8 x 13           0         3         B & G, VSC, 8 x 8 x 13           0         3         B & G, VSC, 8 x 8 x 13           0         3         B & G, VSC, 8 x 8 x 13           0         3         B & G, VSC, 8 x 8 x 13           0         3         B & G, VSC, 8 x 8 x 13           0         3         B & G, VSC, 8 x 8 x 13           0         3         B & G, VSC, 8 x 8 x 13           0         3         V-10           -         480         3           0         3         V-10           -         480         3           0         -         480         3           0         -         480         3           0         -         480         3   | 4         3B         AASTER         NO.         3O         3O     <  | Y SCHOOL<br>DL SYSTEM<br>DL SYSTEM<br>LINA  |
|  | 128         3000         330         26.8         90         100         65           127         650         50         5         90         100         65           127         7000         945         63.8         90         100         65           127         7000         945         63.8         90         100         65           120         2000         334         16.4         90         100         65           120         500         80         3.9         90         100         65           120         500         80         3.9         90         100         65           120         650         70         5         90         100         65           120         650         60         5         90         100         65           120         1500         240         10.7         90         100         65           120         1500         180         10.7         90         100         65           120         6000         625         53.6         90         100         65           120         6000         625   | 58         12.8         80         67         62         4           58         16.8         80         67         100         1           58         8.7         80         67         18.8         1           58         8.7         80         67         18.8         1           58         13.5         80         67         235         1           58         13.5         80         67         235         1           58         12.8         80         67         62         1           58         5.5         80         67         14.3         1           58         8.7         80         67         18.8         1           58         8.7         80         67         18.8         1           58         8.7         80         67         18.8         1           58         22.3         80         67         41.0         1           58         22.3         80         67         199         1           58         16.8         80         67         199         1           58         16.8         80   | 78       70       104       1       1.0         3.8       70       21.9       1/6       0.5         182       70       251       2       1.2         17.5       70       74.5       1       0.5         10.3       70       18.1       1/12       0.4         3.8       70       21.9       1/6       0.4         3.8       70       21.9       1/6       0.4         3.8       70       21.9       1/6       0.4         3.8       70       21.9       1/6       0.4         3.8       70       21.9       1/6       0.4         3.1       70       42.5       1/2       0.5         31       70       42.5       1/2       0.4         156       70       208       1       1.2         156       70       208       1       1.2         26.6       70       40.5       1/2       0.4         17.5       70       33.4       1/4       0.4  | - 480 3 V-10<br>- 480 3 813-0<br>- 480 3 V-10<br>- 208 1 803-0<br>- 480 3 V-24<br>- 480 3 813-0<br>- 208 1 803-0<br>- 480 3 813-0<br>- 480 3 813-0<br>- 480 3 813-0<br>- 480 3 V-22<br>- 480 3 V-22<br>- 480 3 813-0<br>- 208 1 803-0<br>- 208 1 803-0<br>- 208 1 803-0<br>- 208 1 803-0<br>- 480 3 813-0<br>- 480 3 813 | 060       III         00       019         40       060         019       40         060       015         019       019         019       019         042       042         042       042         000       036         001       036         0024       000         005       000         0060       000         007       000         008       000         009       000         000       000         000       000         000       000         000       000         000       000         000       000         000       000         000       000         000       000         000       000         000       000         000       000         000       000         000       000         000       000         000       000         000       000         000       000         000       00 | AD ELEMENTAR  |