## AIR OUTLET SCHEDULE

| DESIG. | USE | UNIT SIZE | NECK SIZE | THROW | SLOTS | FINISH | BASIS OF DESIGN |
|---|---|---|---|---|---|---|---|
| SD-1 | SUPPLY | 48" | 10"ø | 2-WAY | 3 | WHITE | TRANE MODEL VSLD |
| SD-2 | SUPPLY | 48" | 10"ø | 2-WAY | 2 | WHITE | TRANE MODEL VSLD |
| SD-3 | SUPPLY | 24" | 8"ø | 2-WAY | 2 | WHITE | TRANE MODEL VSLD |
| SD-4 | SUPPLY | – | 16"ø | – | – | WHITE | TITUS MODEL TMRA |
| RG-1 | RETURN | 24"x24" | – | – | – | WHITE | TITUS MODEL BR WITH 24" T-BAR FOR INSTALLATION IN SUSPENDED CEILING |
| RG-2 | RETURN | 10"x10" | – | – | – | WHITE | TITUS MODEL BR |

## HEATING COIL SCHEDULE

| DESIGNATION | SYS. | MBH | ACFM | SIZE W/H (IN.) | FACE VEL. (FPM) | ENTER AIR TEMP (°F) | LEAVE AIR TEMP (°F) | AIR PRESS DROP (IN WG) | GPM | ENTER LIQ TEMP (°F) | LEAVE LIQ TEMP (°F) | LIQ PRESS DROP (FT) | FIN SPACE (FPI) | COIL ROWS | COIL TURB | BASIS OF DESIGN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20MC72H16(E) | 20MC3SA12(E) | 1036 | 10,000 | 72/48 | 417 | -55 | 40 | 0.5 | 77 | 180 | 150 | – | – | – | – | – |
| 20MC72H23 | 20MC3SA12(E) | 218 | 10,000 | 72/48 | 417 | 35 | 55 | 0.1 | 16 | 180 | 150 | – | 8 | 1 | YES | PACE |

NOTES:
1. HEATING COIL MEDIUM SHALL BE 50% PROPYLENE GLYCOL AND 50% WATER SOLUTION.

## CONTROL VALVE SCHEDULE

| DESIGNATION | SERVICE | FLOW MEDIUM | CONN. SIZE | FLOW RATE | CV RATING | VALVE LOCATION | BASIS OF DESIGN |
|---|---|---|---|---|---|---|---|
| CV-14(E) | 20MC72H16(E) | 50/50 P.G./WATER | 2-1/2" | 77 | – | FAN RM. E201 PHC | HONEYWELL |
| CV-24 | 20MC72H23 | 50/50 P.G./WATER | – | 16 | – | FAN RM. E201 HC | HONEYWELL |
| SMALL RHC/RP | FOR GPM <1.8 | 50/50 P.G./WATER | 1/2 | VARIES | 1.0 | VARIES | HONEYWELL V-5011 |
| LARGE RHC/RP | FOR GPM >1.8 | 50/50 P.G./WATER | 1/2 | VARIES | 1.6 | VARIES | HONEYWELL V-5011 |

## REHEAT COIL SCHEDULE*

| FNSB/SD NUMBER | LOCATION | CLG CFM (MAXIMUM VAV SETPOINT) | HTG CFM (MINIMUM VAV SETPOINT) | LEAVING AIR TEMP. °F | MBTU/H | GPM |
|---|---|---|---|---|---|---|
| 20MC7RH33 | FOREIGN LANGUAGE H110 | 310 | 150 | – | 6.0 | 0.67 |
| 20MC7RH34 | FOREIGN LANQUAGE H110 | 450 | 300 | – | 11.9 | 1.33 |
| 20MC7RH35 | BUSINESS ED H108 | 580 | 450 | – | 11.9 | 1.33 |
| 20MC7RH36 | ELECTRICAL STORAGE H104A | 450 | 110 | – | 3.0 | 0.33 |
| 20MC7RH37 | THEATER SEATING H104 | 2280 | 660 | – | 20.9 | 2.33 |
| 20MC7RH38 | THEATER SEATING H104 | 2280 | 660 | – | 20.9 | 2.33 |
| 20MC7RH39 | STAGE H140 | 1700 | 480 | – | 15.0 | 1.67 |
| 20MC7RH40 | CHEMISTRY LAB H135 | 1200 | 675 | – | 18.0 | 2.00 |
| 20MC7RH41 | PHYSICS LAB H128 | 1200 | 440 | – | 15.0 | 1.67 |
| 20MC7RH42 | SCIENCE PREP H137 | 300 | 120 | – | 9.0 | 1.00 |
| 20MC7RH43 | BIOTECH LAB H139 | 1200 | 440 | – | 15.0 | 1.67 |
| 20MC7RH44 | ART CLASSROOM H136 | 200 | 60 | – | 3.0 | 0.33 |
| 20MC7RH45 | ART CLASSROOM H136 | 1875 | 1000 | – | 57.0 | 6.33 |

*NOTE: ENTERING AIR TEMP. = 65°F, ENTERING LIQUID TEMP. = 180°F
LEAVING LIQUID TEMP. = 160°F, FLUID = 50/50 P.G./WATER

## MECHANICAL EQUIPMENT SCHEDULE

| DESIGNATION | EQUIPMENT | CAPACITY | LOCATION | ELECTRICAL | REMARKS | MANUFACTURER AND MODEL (OR APPROVED EQUAL) |
|---|---|---|---|---|---|---|
| 20MC7CT03 | EXPANSION TANK | 110 GAL. TOTAL, 34 GAL. ACCEPTANCE | – | – | – | AMTROL MODEL AX240 |
| 20MC7CT04 | EXPANSION TANK | 110 GAL. TOTAL, 34 GAL. ACCEPTANCE | – | – | – | AMTROL MODEL AX240 |
| 20MC7CT05 | EXPANSION TANK | 110 GAL. TOTAL, 34 GAL. ACCEPTANCE | – | – | – | AMTROL MODEL AX240 |

## FAN SCHEDULE

| DESIGNATION | LOCATION | SERVICE | TYPE | S.C.F.M. | S.P. | ELECTRICAL HP, VOLTS, PHASE | REMARKS | MANUFACTURER AND MODEL (OR PREAPPROVED EQUAL) |
|---|---|---|---|---|---|---|---|---|
| 20MC3RA02(E) | FAN ROOM E201 | EXISTING ROOMS OF AREA E | RETURN | – | – | 10, –, – | REMOVE FAN INLET VANES | PROVIDE NEW VFD CONTROLLER |
| 20MC3SA11(E) | FAN ROOM E144 | EAST SIDE OF AREA E | VENT/COOLING | – | – | 5, 208, 3 | EXISTING | PACE |
| 20MC3SA12(E) | FAN ROOM E201 | EXISTING ROOMS OF AREA E | VENT/COOLING | – | – | 25, 208, 3 | REMOVE FAN INLET VANES | PROVIDE NEW VFD CONTROLLER |
| | | | | | | | | |
| 20MC3EF14(E) | HOME EC. H142 | RANGE HOOD | EXHAUST | – | – | –, 115, 1 | EXISTING | GENERAL ELECTRIC |
| 20MC3EF15(E) | HOME EC. H142 | RANGE HOOD | EXHAUST | – | – | –, 115, 1 | EXISTING | GENERAL ELECTRIC |
| 20MC3EF16(E) | HOME EC. H142 | RANGE HOOD | EXHAUST | – | – | –, 115, 1 | EXISTING | GENERAL ELECTRIC |
| 20MC3EF28(E) | FAN ROOM E201 | WOMEN'S E121/MEN'S E126 | EXHAUST | – | – | 1/2, 115, 1 | EXISTING | PACE |
| 20MC3EF29(E) | FAN ROOM E201 | CHEMISTRY LAB E116 | EXHAUST | – | – | 3/4, 208, 3 | EXISTING | PACE |
| 20MC3EF30(E) | FAN ROOM E201 | SCIENCE PREP E119 | EXHAUST | – | – | 3/4, 208, 3 | EXISTING | PACE |
| 20MC3EF35(E) | FAN ROOM E144 | EAST SIDE OF AREA E | RELIEF | 4860 | 0.25 | 3/4, 208, 1 | WALL MTD | GREENHECK MODEL SBE-2L20-7 |
| 20MC3EF37(E) | KILN H136C | GENERAL | COOLING | 1241 | 0.5 | 812W, 115, 1 | W/ LEK-TROL | PENN MODEL Z102H – CEILING MOUNTED |
| 20MC3EF38 | KILN H136C | KILN | COOLING/EXHAUST | 60 | 0.5 | 130W, 115, 1 | KILN MTD | SKUTT ENVIROMENTAL |
| 20MC3EF50 | KILN H136C | KILN | COOLING/EXHAUST | 60 | 0.5 | 130W, 115, 1 | KILN MTD | SKUTT ENVIROMENTAL |
| 20MC3EF55 | ART ROOM H136 | SPRAY BOOTH | EXHAUST | 773 | 3/4" | 1/3, 110, 1 | – | SEE ARCHITECTURAL |
| 20MC3EF56 | LOUNGE D130 | KITCHEN RANGE | CARBON FILTER | – | – | –, 110, 1 | – | NON-DUCTED RANGE HOOD |
| 20MC3EF57(E) | CHEMISTRY H135 | FUME BOOTH | EXHAUST | – | – | – | RECONNECT ELECTRICAL | KEWAUNEE |
| 20MC3EF58(E) | CONCESSION H112 | KITCHEN RANGE | – | – | – | –, 110, 1 | RE-USE EXISTING | – |

## PLUMBING FIXTURE CONNECTION SCHEDULE

| NO. | FIXTURE | TRAP | WASTE | VENT | CW | HW | REMARKS |
|---|---|---|---|---|---|---|---|
| P-1 | EYEWASH/SHOWER | – | – | – | 1-1/4" | – | EMERGENCY |
| P-2 | SINK (1 COMPARTMENT) | 1-1/2" | 1-1/2" | 1-1/4" | 1/2" | 1/2" | |
| P-3 | SINK (2 COMPARTMENT) | 1-1/2" | 1-1/2" | 1-1/4" | 1/2" | 1/2" | WITH GARGABE DISPOSER |
| P-4 | ART ROOM SINK | 1-1/2" | 1-1/2" | 1-1/4" | 1/2" | 1/2" | |
| FD-1 | FLOOR DRAIN | 2" | 1-1/2" | 1-1/2" | – | – | |
| DF-1 | DRINKING FOUNTAIN WITH CHILLER | 1-1/2" | 1-1/4" | 1-1/4" | 1/2" | – | HANDICAPPED ACCESSIBLE |

## ROOF HOOD SCHEDULE

| SYMBOL | LOCATION | FUNCTION | ROUGH OPENNG THROUGH ROOF (INCHES) | MOTORIZED DAMPER | BACKDRAFT DAMPER | SERVICE | BASIS OF DESIGN |
|---|---|---|---|---|---|---|---|
| RH-1 | ARTS ROOM H136 | EXHAUST | 20/20 | NO | YES | 20MC3EF55 | PENN AIRETTE |

## BASEBOARD SCHEDULE

| DESIGNATION | AVG. LIQUID TEMP (°F) | ENTER. AIR TEMP (°F) | TEMP. C.F. | LIQUID VEL. C.F. | GLYCOL C.F. | TIERS | FACTORED BTU/LF | ELEMENT CATALOG NUMBER (COPPER-ALUMINUM) | ELEMENT SIZE | ELEMENT ENCLOSURE | BASIS OF DESIGN |
|---|---|---|---|---|---|---|---|---|---|---|---|
| BB-1 | 170 | 65 | .61 | 0.95 | 0.9 | 2 | 1315 | C 3/4 435 | 4-1/4"x3-5/8", 50 FPF | FLAT TOP | STERLING VB AR20 |

| REV. | DATE | C.O. | ACTION | DESCRIPTION | BY | APP'D. |
|---|---|---|---|---|---|---|

CONTRACT NO.
CONTRACTOR
CITY STATE
RECOMMENDED: PRIME CONTRACTOR
APPROVED: RESIDENT ENGINEER
DATE:

USKH — A quarter century of design for Alaskans

ALASKA DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

DESIGNED: SVB
DRAWN: LDS
TRACED:
CHECKED: SVB
SUBMITTED:
CHI. SECT.

BEN EIELSON JR./SR. HIGH SCHOOL – PHASE 3
EIELSON AIR FORCE BASE, ALASKA
MECHANICAL
SCHEDULES

RECOMMENDED: CHIEF, MILITARY TECHNICAL ENGINEERING BRANCH
APPROVED: CHIEF ENGINEERING DIVISION
DATE:
SCALE: NONE
SPEC. NO.
DRAWING NUMBER 29-02-38
SHEET OF

REFERENCE NO. M1.1

507202M11 (1=1)