

EXISTING AIR HANDLER SCHEDULE

| EQUIPMENT ID  | SPECIFICATION SECTION | DESCRIPTION  | MANUFACTURER / MODEL NUMBER       | CAPACITIES   | HEATING COIL PRESSURE DROP AIR / FLUID ( in H2O / ft H2O ) | COOLING COIL PRESSURE DROP AIR / FLUID ( " OF WATER COLUMN ) | HEATING CAPACITY (MBH) / FLOW RATE (GPM) | COOLING CAPACITY (MBH) / FLOW RATE (GPM) | ACCESSORIES   | ELECTRICAL LOAD                     | ELECTRICAL SERVICE | WEIGHT      | REMARKS  |
|---|-----------------------|--|-----------------------------------|--|--|--|--|--|---|-------------------------------------|--------------------|-------------|--|
| AHU 5<br>(EXISTING UNIT W/ DUCTWORK DROPS TO 1ST FLOOR CEILING ONLY)  | 23 74 13              | MODULAR AIR HANDLER FOR VARIABLE AIR VOLUME APPLICATION, HORIZONTAL DISCHARGE & RETURN CONFIGURATION WITH RETURN / EXHAUST AIR FAN, 100% AIRSIDE ECONOMIZER, CHILLED WATER AND HOT WATER COILS, AND COMBINATION MIXING BOX, BAG & ELECTRONIC AIR FILTER SECTIONS. OUTSIDE AIRFLOW MONITORING STATION | INSTALLED UNDER PREVIOUS CONTRACT | COOLING COIL: 4 ROWS, 125 FINS PER FOOT, 352.15 MBH TOTAL AND 352.15 MBH SENSIBLE @ 77.60°F EDB, 51.60°F EWB, 54.20°F LDB, 41.57°F LWB<br>HEATING COIL: 1 ROW, 80 FINS PER FOOT, 428.67 MBH TOTAL CAPACITY @ 36.00°F EDB AND 64.60°F LDB, & 180° F EWT, 160° F LWT @ 42.81 GPM<br>SUPPLY FAN DATA: 16,300 CFM @ 1.25" ESP, 1,449 RPM +/-, 13,466 BHP, 2,347 CFM OSA<br>RETURN FAN DATA: 16,300 CFM @ 0.75" ESP, 625 RPM +/-, 9,296 BHP | 0.05 in / 3.67 ft  | 0.34 in / 2.31 ft  | 429 MBH / 43 GPM                         | 352 MBH / 70 GPM                         | SPRING INTERNAL ISOLATION OF ALL FANS, COMB. MIXING BOX & FILTER SECTION w/ MERV-13 SHORT BAG PRE-FILTERS, ELECTRONIC DYNAMIC FILTER, CABINET MOUNTED VARIABLE FREQUENCY DRIVE (VFD FURNISHED BY TEMPERATURE CONTROL CONTRACTOR), INTEGRAL DRAIN PANS, INSULATED DOUBLE WALL UNIT CASING AND ACCESS DOORS | S.A. FAN = 15HP<br>R.A. FAN = 10HP  | 460V / 3-PH        | 10,500 LBS. | EXISTING UNIT SERVING BUILDING 1-5               |
| AHU 3B<br>(EXISTING UNIT W/ DUCTWORK DROPS TO 1ST FLOOR CEILING ONLY) | 23 74 13              | MODULAR AIR HANDLER FOR VARIABLE AIR VOLUME APPLICATION, HORIZONTAL DISCHARGE & RETURN CONFIGURATION WITH RETURN / EXHAUST AIR FAN, 100% AIRSIDE ECONOMIZER, CHILLED WATER AND HOT WATER COILS, AND COMBINATION MIXING BOX, BAG & ELECTRONIC AIR FILTER SECTIONS. OUTSIDE AIRFLOW MONITORING STATION | INSTALLED UNDER PREVIOUS CONTRACT | COOLING COIL: 4 ROWS, 124 FINS PER FOOT, 283.27 MBH TOTAL AND 283.27 MBH SENSIBLE @ 76.60°F EDB, 51.0°F EWB, 54.20°F LDB, 41.32°F LWB<br>HEATING COIL: 1 ROW, 80 FINS PER FOOT, 360.29 MBH TOTAL CAPACITY @ 41.70°F EDB AND 70.50 F LDB, & 180° F EWT, 160° F LWT @ 35.98 GPM<br>SUPPLY FAN DATA: 13,700 CFM @ 1.25" ESP, 1,308 RPM +/-, 9,802 BHP, 1,925 CFM OSA<br>RETURN FAN DATA: 13,700 CFM @ 0.75" ESP, 569 RPM +/-, 6,385 BHP   | 0.05 in / 2.84 ft  | 0.30 in / 1.73 ft  | 360 MBH / 36 GPM                         | 283 MBH / 56 GPM                         | SPRING INTERNAL ISOLATION OF ALL FANS, COMB. MIXING BOX & FILTER SECTION w/ MERV-13 SHORT BAG PRE-FILTERS, ELECTRONIC DYNAMIC FILTER, CABINET MOUNTED VARIABLE FREQUENCY DRIVE (VFD), INTEGRAL DRAIN PANS, INSULATED DOUBLE WALL UNIT CASING AND ACCESS DOORS   | S.A. FAN = 10HP<br>R.A. FAN = 7.5HP | 460V / 3-PH        | 8,000 LBS.  | EXISTING UNIT SERVING SOUTH SIDE OF BUILDING 1-3 |

DIFFUSER REGISTER SCHEDULE

| UNIT DESIGNATION | DESCRIPTION   | MANUFACTURER / MODEL NUMBER                                 | NECK/CONNECTION SIZE | OBD | FINISH/MATERIAL               | REMARKS                          |
|------------------|---|---|----------------------|-----|-------------------------------|----------------------------------|
| 1                | SQUARE CEILING LAY-IN DIFFUSER, ROUND NECK, HIGH PERFORMANCE WITH MINIMUM THREE CONES                                     | LOUVERED DIFFUSER SUBMITTED BY CONTRACTOR FOR APPROVAL      | AS SHOWN ON PLANS    | NO  | OFF-WHITE BAKED ENAMEL, STEEL | STANDARD 24" X 24" LAY-IN MODULE |
| 2                | CEILING RETURN/EXHAUST GRILLE, "EGC15" 1/2"x1/2"x1" ALUM. EGGRATE   | EGGRATE GRILLE SUBMITTED BY CONTRACTOR FOR APPROVAL         | AS SHOWN ON PLANS    | YES | OFF-WHITE BAKED ENAMEL, STEEL | STANDARD 24" X 24" LAY-IN MODULE |
| 3                | ROUND CEILING DIFFUSER, ADJUSTABLE, ROUND NECK, HIGH PERFORMANCE WITH MINIMUM FOUR CONES                                  | ROUND CEILING DIFFUSER SUBMITTED BY CONTRACTOR FOR APPROVAL | AS SHOWN ON PLANS    | NO  | OFF-WHITE BAKED ENAMEL, STEEL | DUCT MOUNTED DIFFUSER            |
| 4                | TRANSFER GRILLE, STEEL WITH 3/4" BLADE SPACING, 0° DEFLECTION, BLADES PARALLEL TO LONG DIMENSION, FRAME FOR SURFACE MOUNT | TRANSFER GRILLE SUBMITTED BY CONTRACTOR FOR APPROVAL        | AS SHOWN ON PLANS    | NO  | OFF-WHITE BAKED ENAMEL, STEEL | WALL MOUNTED UNIT                |

NEW MECHANICAL EQUIPMENT SCHEDULE

| EQUIPMENT ID      | DESCRIPTION  | MANUFACTURER / MODEL NUMBER               | CAPACITIES   | ACCESSORIES  | ELECTRICAL LOAD                         | ELECTRICAL SERVICE  | WEIGHT     | REMARKS  |
|-------------------|--|---|--|--|---|---------------------|------------|--|
| FC 1              | HORIZONTAL MOUNTED CABINET FAN COIL UNIT, CONSTANT FLOW, SUSPENDED WITH ALL THREAD ROD FROM BOTTOM OF ROOF STRUCTURE   | UNIT SUBMITTED BY CONTRACTOR FOR APPROVAL | NOMINAL 5-TON UNIT FOR 53.0 MBH T.C. & 40.6 S.C. AT 80/67°F E.A.T., 7.5 KW HEATING ELEMENT, 2000 CFM @ 0.25" W.C. E.S.P. ON MEDIUM HIGH SPEED, 200 CFM O.S.A.                            | FURNISH WITH WALL MOUNTED AUTO-CHANGEOVER THERMOSTAT, R-IN-S ISOLATOR HANGING KIT, MINIMUM MERV 8 1" THICK T.A. AIR FILTER, AND ELECTRIC HEATING COIL  | 48.3 MCA W/ NOM. 7.5 KW ELEC. HTG. COIL | 208V / 3-PH / 60 HZ | 200 LBS.   | SERVING GROUND FLOOR CORRIDOR                      |
| HP 1              | OUTDOOR SPLIT-SYSTEM HEAT PUMP, ROOF MOUNTED   | UNIT SUBMITTED BY CONTRACTOR FOR APPROVAL | NOMINAL 5-TON UNIT FOR 53.0 MBH T.C. AT 95°F AMBIENT, 13.0 SEER, 29.8 MBH HTG AT 47°F AMBIENT  | FURNISH WITH LOW-AMBIENT HARD-START KIT, THERMAL EXPANSION VALVE, AND R410A REFRIGERANT  | 37.5 MCA                                | 208V / 1-PH / 60 HZ | 265 LBS.   | CONNECT TO FC-1                                    |
| FC 2              | HORIZONTAL MOUNTED CABINET FAN COIL UNIT, CONSTANT FLOW, SUSPENDED WITH ALL THREAD ROD FROM BOTTOM OF ROOF STRUCTURE   | UNIT SUBMITTED BY CONTRACTOR FOR APPROVAL | NOMINAL 5-TON UNIT FOR 53.0 MBH T.C. & 40.6 S.C. AT 80/67°F E.A.T., 7.5 KW HEATING ELEMENT, 2000 CFM @ 0.25" W.C. E.S.P. ON MEDIUM HIGH SPEED, 200 CFM O.S.A.                            | FURNISH WITH WALL MOUNTED AUTO-CHANGEOVER THERMOSTAT, R-IN-S ISOLATOR HANGING KIT, MINIMUM MERV 8 1" THICK T.A. AIR FILTER, AND ELECTRIC HEATING COIL  | 48.3 MCA W/ NOM. 7.5 KW ELEC. HTG. COIL | 208V / 3-PH / 60 HZ | 200 LBS.   | SERVING SECOND FLOOR CORRIDOR                      |
| HP 2              | OUTDOOR SPLIT-SYSTEM HEAT PUMP, ROOF MOUNTED   | UNIT SUBMITTED BY CONTRACTOR FOR APPROVAL | NOMINAL 5-TON UNIT FOR 53.0 MBH T.C. AT 95°F AMBIENT, 13.0 SEER, 29.8 MBH HTG AT 47°F AMBIENT  | FURNISH WITH LOW-AMBIENT HARD-START KIT, THERMAL EXPANSION VALVE, AND R410A REFRIGERANT  | 37.5 MCA                                | 208V / 1-PH / 60 HZ | 265 LBS.   | CONNECT TO FC-2                                    |
| MAU 1             | MAKEUP AIR UNIT, OUTDOOR, INDIRECT FIRED, NATURAL GAS HEATING WITH EVAPORATIVE COOLING MODULE FOR MIN. 88% EFFICIENCY, POWER VENTED, HORIZONTAL DISCHARGE            | UNIT SUBMITTED BY CONTRACTOR FOR APPROVAL | NOMINAL 350 MBH HEATING SECTION FOR 232.5 MBH OUTPUT (DERATED) WITH 85°F TEMPERATURE RISE @ 3,000 CFM 1.50" W.C. ESP. EVAPORATIVE COOLING MODULE FOR MINIMUM 88% EFFICIENCY AT 3,000 CFM | FURNISH WITH AIR FILTER SECTION & 2" THICK T.A. FILTERS, INLET AIR HOOD, 100% OSA CONFIGURATION, AND PRE-MANUFACTURED ROOF CURB TO SUPPORT ENTIRE UNIT | 14.0 FLA WITH 2.0 HP DRIVE              | 208V / 1-PH / 60 HZ | 1,400 LBS. | UNIT SERVES KITCHEN                                |
| KEF 3             | FLAT BLADE UTILITY SET, UPBLAST DISCHARGE CENTRIFUGAL EXHAUST VENTILATOR FAN FOR TYPE 1 KITCHEN GREASE HOODS APPLICATION, BELT DRIVE, ALUMINUM HOUSING, BOTTOM DRAIN | UNIT SUBMITTED BY CONTRACTOR FOR APPROVAL | 2,335 CFM EXHAUST AT 1.75" W.C. E.S.P., 2,290 FAN RPM, 90 DBA  | FURNISH WITH EXTENDED LUBE LINES, DRAIN, GREASE TROUGH RESERVOIR, AND PRE-MANUFACTURED VENTILATED ROOF CURB  | 1.5 HP DRIVE                            | 208V / 1-PH / 60 HZ | 250 LBS.   | UNIT SERVES TYPE 1 KITCHEN HOODS ITEMS K-20 & K-30 |
| KEF 4             | INLINE CENTRIFUGAL EXHAUST FAN, BELT DRIVE, MIXED FLOW, HORIZONTAL MOUNT FOR DISHWASHER HOOD APPLICATION   | UNIT SUBMITTED BY CONTRACTOR FOR APPROVAL | 525 CFM EXHAUST AT 0.30" W.C. E.S.P., 1,352 FAN RPM  | INLINE MOUNTED, BELT DRIVE, BACK DRAFT DAMPER, UL 705, AMCA CERTIFIED, OPEN DRIP-PROOF MOTOR WITH PERMANENTLY LUBRICATED SEALED BEARINGS               | 1/2-HP DRIVE                            | 120V / 1-PH / 60 HZ | 150 LBS.   | UNIT SERVES TYPE 2 DISHWASHER HOOD ITEM K-90       |
| EF 5<br>2 (REQ'D) | INLINE CENTRIFUGAL EXHAUST FAN, DIRECT DRIVE, FORWARD CURVE POLYPROPYLENE FAN WHEEL  | UNIT SUBMITTED BY CONTRACTOR FOR APPROVAL | 350 CFM SUPPLY AT 0.125" E.S.P.  | INLINE MOUNTED, DIRECT DRIVE, BACKDRAFT DAMPER, UL 705, AMCA CERTIFIED, OPEN DRIP PROOF TYPE PERMANENTLY LUBRICATED SEALED BEARINGS                    | 171 WATTS                               | 120V / 1-PH / 60 HZ | 32 LBS.    | SERVES MENS, WOMENS, AND HVAC ROOM                 |

LOUVER SCHEDULE

| UNIT DESIGNATION | DESCRIPTION  | MANUFACTURER / MODEL NUMBER                   | ACCESSORIES   | WEIGHT  | REMARKS                                 |
|------------------|--|---|---|---------|---|
| L 1              | LOUVER, STATIONARY, EXTRUDED ALUMINUM, DRAINABLE, 24"x12"H FOR MAXIMUM 500 FPM | TO BE SUBMITTED ON BY CONTRACTOR FOR APPROVAL | BACK DRAFT DAMPER, FINISH TO MATCH SURROUNDING STRUCTURE, INSECT SCREEN | 20 LBS. | INSTALL PER MANUFACTURER'S INSTRUCTIONS |

Variable Air Volume Single Duct Terminal Units Schedule Report

| TAGS  | MANUFACTURER & MODEL NO.             | PRIMARY INLET     | MAX INLET SP (in H2O) | DESIGN COOLING AIRFLOW (cfm) | MIN COOLING AIRFLOW (cfm) | APD @ COOLING AIRFLOW (in. H2O) | COOLING INLET VELOCITY (ft/min) | VALVE HEATING AIRFLOW (cfm) | PRIMARY EDB (deg. F) | UNIT LAT (deg. F) | HEATING DELTA T (deg. F) | HEATING ENTERING FLUID TEMP. (deg. F) | HEATING FLOW RATE (gpm) | COIL HEATING CAPACITY (Mbh) | COIL FLUID PRESSURE DROP (ft H2O) | COIL TYPE | MINIMUM Cv VALUE | UNIT CONTROL TYPE | MAX WEIGHT (lbs) | NOISE CRITERIA-DISCHARGE (NC) | NOISE CRITERIA-RADIATED (NC) |
|-------|--------------------------------------|-------------------|-----------------------|------------------------------|---------------------------|---------------------------------|---------------------------------|-----------------------------|----------------------|-------------------|--------------------------|---------------------------------------|-------------------------|-----------------------------|-----------------------------------|-----------|------------------|-------------------|------------------|-------------------------------|------------------------------|
| VAV-1 | SUBMITTED BY CONTRACTOR FOR APPROVAL | 5" (127mm) inlet  | 0.75                  | PER PLANS                    | 100                       | 0.14                            | 2200                            | 100                         | 55                   | 145.4             | 16.4                     | 180.0                                 | 2.00                    | 8.31                        | 0.63                              | 2-ROW     | 4.00             | 3-WAY VALVE       | 35               | 31                            | 26                           |
| VAV-2 | SUBMITTED BY CONTRACTOR FOR APPROVAL | 8" (203mm) inlet  | 0.75                  | PER PLANS                    | 200                       | 0.29                            | 1719                            | 200                         | 55                   | 124.9             | 25.5                     | 180.0                                 | 1.50                    | 12.90                       | 0.10                              | 2-ROW     | 4.00             | 3-WAY VALVE       | 35               | 22                            | 24                           |
| VAV-3 | SUBMITTED BY CONTRACTOR FOR APPROVAL | 10" (254mm) inlet | 0.75                  | PER PLANS                    | 330                       | 0.38                            | 2017                            | 330                         | 55                   | 128.7             | 29.9                     | 180.0                                 | 2.50                    | 22.45                       | 0.41                              | 2-ROW     | 4.00             | 3-WAY VALVE       | 35               | 24                            | 29                           |
| VAV-4 | SUBMITTED BY CONTRACTOR FOR APPROVAL | 10" (254mm) inlet | 0.75                  | PER PLANS                    | 330                       | 0.38                            | 2017                            | 330                         | 55                   | 128.7             | 29.9                     | 180.0                                 | 2.75                    | 22.45                       | 0.41                              | 2-ROW     | 4.00             | 3-WAY VALVE       | 35               | 24                            | 29                           |
| VAV-5 | SUBMITTED BY CONTRACTOR FOR APPROVAL | 10" (254mm) inlet | 0.75                  | PER PLANS                    | 330                       | 0.38                            | 2017                            | 330                         | 55                   | 128.7             | 29.9                     | 180.0                                 | 1.25                    | 22.45                       | 0.41                              | 2-ROW     | 4.00             | 3-WAY VALVE       | 35               | 24                            | 29                           |
| VAV-6 | SUBMITTED BY CONTRACTOR FOR APPROVAL | 10" (254mm) inlet | 0.75                  | PER PLANS                    | 330                       | 0.38                            | 2017                            | 330                         | 55                   | 128.7             | 29.9                     | 180.0                                 | 0.50                    | 22.45                       | 0.41                              | 2-ROW     | 4.00             | 3-WAY VALVE       | 35               | 24                            | 29                           |
| VAV-7 | SUBMITTED BY CONTRACTOR FOR APPROVAL | 10" (254mm) inlet | 0.75                  | PER PLANS                    | 330                       | 0.38                            | 2017                            | 330                         | 55                   | 128.7             | 29.9                     | 180.0                                 | 2.00                    | 22.45                       | 0.41                              | 2-ROW     | 4.00             | 3-WAY VALVE       | 35               | 24                            | 29                           |
| VAV-8 | SUBMITTED BY CONTRACTOR FOR APPROVAL | 10" (254mm) inlet | 0.75                  | PER PLANS                    | 330                       | 0.38                            | 2017                            | 330                         | 55                   | 128.7             | 29.9                     | 180.0                                 | 0.50                    | 22.45                       | 0.41                              | 2-ROW     | 4.00             | 3-WAY VALVE       | 35               | 24                            | 29                           |
| VAV-9 | SUBMITTED BY CONTRACTOR FOR APPROVAL | 10" (254mm) inlet | 0.75                  | PER PLANS                    | 330                       | 0.38                            | 2017                            | 330                         | 55                   | 128.7             | 29.9                     | 180.0                                 | 2.00                    | 22.45                       | 0.41                              | 2-ROW     | 4.00             | 3-WAY VALVE       | 35               | 24                            | 29                           |

FULLY SPRINKLERED

|  |  |  |   |  |  |                                     |  |
|--|--|--|---|--|--|-------------------------------------|--|
| <b>CONSULTANTS:</b><br><br>DINTER<br>ENGINEERING CONFIDENCE<br>Airfield Electrical Mechanical<br>385 Gentry Way<br>Reno, NV 89502<br>Ph: 775.826.4044<br>Fax: 775.826.4190<br>www.dinter.com J-4217.6 | <br>THOMAS P. FEDERICI<br>PROFESSIONAL ENGINEER<br>LICENSE NO. 4976 | <b>ARCHITECT/ENGINEERS:</b><br><br>vern martin design associates<br>(a Nevada Corporation)<br>Food Facilities Design<br>760 Robin St., Reno, Nevada 89509<br>P:(775) 240-2637 F:(775) 201-0066<br>E:vern@martinreno.com | <br>VanWoert<br>Bigotti<br>architects<br>1400 S. Virginia St. Suite C<br>Reno, Nevada 89502<br>P:775.328.1010<br>F:775.328.1020<br>info@vwarchitects.com | Drawing Title<br><b>MECHANICAL SCHEDULES</b> | Project Title<br><b>VA SIERRA NEVADA HEALTH CARE SYSTEM - CANTEEN RELOCATION DESIGN - , RENO, NEVADA</b> | Project Number<br><b>654-11-227</b> | Office of<br>Construction<br>and Facilities<br>Management<br> |
|  |  |  |   | Approved Project Director                    | Location<br><b>975 KIRMAN AVE. RENO, NEVADA 89502</b>  | Building Number<br><b>1</b>         |  |
| Revisions:   | Date   | Date   | Date  | Date   | Date   | Date                                | Date   |