**Report By:**

**National TAB**
**1329 E. KEMPER ROAD**
**SUITE 4210**
**CINCINNATI, OH 45246**

**Report: CERTIFIED TAB REPORT**

**Function: Test, Adjust, & Balance**

**Date: 11/27/2024**

**Completed By: National TAB**

# PROJECT

## PROJECT MAVERICK (FALLON, NV)

1221 NEW RIVER PARKWAY

FALLON, NV 89406

Client

PANATONNI DEVELOPMENT COMPANY, INC.

# National TAB

**Project: PROJECT MAVERICK (FALLON, NV)**

## Table Of Contents

# National TAB

**Project: PROJECT MAVERICK (FALLON, NV)**

## System/Unit: AHU/RTU

**Asset: RTU1** AREA:EMPLOYEE AREAS

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | AAON | AAON |
| **Serial Num** | - | 202410-ANEH32304 |
| **Model Num** | RN-008 | RN-008-3-0-E80E-133 |
| **Type** | RTU | RTU |
| **Configuration** | HORIZONTAL DISCHARGE | HORIZONTAL |
| **Num OA Filters 1** | - | 1 |
| **OA Filter Size 1** | - | 32X17 |
| **Num Final Filter 1** | - | 4 |
| **Final Filter Size 1** | - | 16X20X2 |
| **Num Final Filter 2** | - | |
| **Final Filter Size 2** | - | |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | NL |
| **Frame** | - | NL |
| **Horsepower** | 2 | 2 |
| **Motor Rpm** | 1760 | 1760 |
| **Phase** | 3 | 3 |
| **Rated Voltage** | 460 | 460 |
| **Rated Amperage** | - | 3.4 |

| Electrical | |
|---|---|
| | **Actual** |
| **VFD Max Setpt** | 60HZ |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **SF CFM** | 2500 | 1976 |
| **SF RPM** | 2130 | 1760 |
| **RA CFM** | - | 1474 |
| **OA CFM** | 515 | 502 |
| **ABS MIN OA** | 215 | 233 |
| **ABS MIN OA DAMPER POSITION** | - | ~8% |
| **RL Voltage** | - | 488/488/487 |
| **RL Amperage** | - | 2.1/2.0/1.9 |
| **SF Rotation** | - | CCW |
| **RA Damper Position** | - | ~80% |
| **Min OA Damper Position** | - | ~20% |
| **Min OA Damper Type** | - | MOTORIZED |

| Performance Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MA Plenum SP** | - | -0.98"" |
| **Fan Suction SP** | - | -1.35" |
| **Fan Discharge SP** | - | 0.33" |
| **Total ESP** | 1.00" | 1.31" |

| General | |
|---|---|
| | **Actual** |
| **Fan Rotation Correct** | YES |
| **Unit Filters Clean** | YES |

Completed By: Zack Eismin on 11/26/2024

Notes:
AIRFLOW IS BELOW DESIGN AT 60HZ. THERE IS AMPERAGE LEFT ON THE MOTOR TO INCREASE SPEED BUT BMS WAS NOT STARTED UP YET. FAN SPEED NEEDS TO BE INCREASED TO 68.3 HZ TO ACHIEVE 90% OF DESIGN OR 76 HZ TO ACHIEVE 100% OF DESIGN.

OA DAMPER MANUALLY SET. BMS NOT STARTED UP.

Written By: Will Turnbough on 12/02/2024

# National TAB

**Project:PROJECT MAVERICK (FALLON, NV)**

## AHU/RTU

**Diffuser Supply (GRD)**

**RTU1/EMPLOYEE AREAS**

| Asset | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Asset Name** | **Location** | **Type** | **Size** | **DESIGN CFM** | **AK** | **CFM(1)** | **CFM(2)** | **FINAL CFM** | **% to design** |
| SGRD1 | 104 OFFICE | CSD1 | 8" | 150 | 1 | 105 | 115 | 115 | 76.7 |
| SGRD2 | 116 SPACE | CSD2 | 8" | 150 | 1 | 141 | 111 | 111 | 74.0 |
| SGRD3 | 122 MULTI-FAITH ROOM | CSD2 | 8" | 150 | 1 | 109 | 117 | 117 | 78.0 |
| SGRD4 | 100 ASSOCIATE ENTRY | CSD2 | 10" | 350 | 1 | 309 | 279 | 279 | 79.7 |
| SGRD5 | 102 BREAKROOM | CRG1 | 14" | 425 | 1 | 341 | 341 | 341 | 80.2 |
| SGRD6 | 102 BREAKROOM | CRG1 | 14" | 425 | 1 | 333 | 333 | 333 | 78.4 |
| SGRD7 | 102 BREAKROOM | CRG1 | 14" | 425 | 1 | 329 | 329 | 329 | 77.4 |
| SGRD8 | 102 BREAKROOM | CRG1 | 14" | 425 | 1 | 355 | 351 | 351 | 82.6 |
| Total | | | | 2500 | | 2022 | 1976 | 1976 | 79.04% |

# National TAB

**Project: PROJECT MAVERICK (FALLON, NV)**

## System/Unit: AHU/RTU

**Asset: RTU2** AREA:WAREHOUSE

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | AAON | AAON |
| **Serial Num** | - | 202410-BNEP32308 |
| **Model Num** | RNA-020 | RNA-020-C-A-3-DJB0C-B06FY |
| **Type** | RTU | RTU |
| **Configuration** | HORIZONTAL DISCHARGE | HORIZONTAL |
| **Num OA Filters 1** | - | 1 |
| **OA Filter Size 1** | - | 52X29 |
| **Num Final Filter 1** | - | 6 |
| **Final Filter Size 1** | - | 20X25X2 |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | NL |
| **Frame** | - | NL |
| **Horsepower** | 10 HP | 10 |
| **Motor Rpm** | 1170 | 1170 |
| **Phase** | 3 | 3 |
| **Rated Voltage** | 460 | 460 |
| **Rated Amperage** | - | 14 |

| Electrical | |
|---|---|
| | **Actual** |
| **VFD Max Setpt** | 60HZ |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **SF CFM** | 9600 | 9298 |
| **SF RPM** | 1306 | 1170 |
| **MOTOR RPM** | - | 1170 |
| **RA CFM** | - | 7357 |
| **OA CFM** | 1935 | 1941 |
| **ABS MIN OA** | 1935 | 1941 |
| **ABS MIN OA DAMPER POSITION** | - | ~20% |
| **RL Voltage** | - | 488/488/488 |
| **RL Amperage** | - | 9.8/9.9/9.8 |
| **SF Rotation** | - | CCW |
| **RA Damper Position** | - | ~80% |
| **Min OA Damper Position** | - | ~20% |
| **Min OA Damper Type** | - | MOTORIZED |

| Performance Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MA Plenum SP** | - | -0.36" |
| **Fan Suction SP** | - | -0.55" |
| **Fan Discharge SP** | - | 0.18" |
| **Total ESP** | 0.50" | 0.54" |

| General | |
|---|---|
| | **Actual** |
| **Fan Rotation Correct** | YES |
| **Unit Filters Clean** | YES |

Completed By: Zack Eismin on 11/26/2024

Notes:
TOTAL FLOW SET FOR THE UNIT. UNABLE TO BALANCE INDIVIDUAL DIFFUSERS DUE TO RACKS IN THE WAY. SERVES OPEN WAREHOUSE AREA AND NOT ANTICIPATED TO CAUSE ANY COMFORT ISSUES.

DAMPER POSITION MANUALLY SET. BMS NOT STARTED UP YET.

Written By: Will Turnbough on 12/02/2024

# National TAB

**Project: PROJECT MAVERICK (FALLON, NV)**

## System/Unit: FAN - Exhaust

**Asset: EF1** AREA:RESTROOMS

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | GREENHECK | GREENHECK |
| **Model Num** | SQ-120-VG | SQ-120-VG |
| **Serial Num** | - | 25563354 |
| **Type** | UPBLAST | INLINE |
| **Configuration** | VERTICAL | HORIZONTAL |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | NL |
| **Frame** | - | NL |
| **Horsepower** | 1/2 | 0.5 |
| **Motor Rpm** | 1725 | 1725 |
| **Phase** | 1 | 1 |
| **Voltage (rated)** | 115 | 115 |
| **Amperage (rated)** | - | 6.4 |
| **Service Factor** | - | NL |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **CFM** | 675 | 729 |
| **Fan RPM** | 1107 | 1035 |
| **Fan Rotation** | - | CCW |
| **Motor RPM** | - | 1035 |
| **System SetPt** | - | 6 |
| **RL Voltage** | - | NA |
| **RL Amperage** | - | NA |
| **Total ESP** | 0.5" | 0.56" |
| **Fan Inlet SP** | - | -0.56" |
| **Fan Discharge SP** | - | ATM |

Completed By: Zack Eismin on 11/26/2024

# National TAB

**Project:PROJECT MAVERICK (FALLON, NV)**

## FAN - Exhaust

**Diffuser Ret/Exh (GRD)**

**EF1/RESTROOMS**

| Asset | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Asset Name** | **Type** | **Size** | **DESIGN CFM** | **AK** | **CFM(1)** | **CFM(2)** | **FINAL CFM** | **% to design** |
| EGRD1 | CEG1 | 10" | 250 | 1 | 630 | 273 | 273 | 109.2 |
| EGRD2 | CEG1 | 10" | 250 | 1 | 536 | 267 | 267 | 106.8 |
| EGRD3 | CEG1 | 8" | 175 | 1 | 322 | 189 | 189 | 108.0 |
| Total | | | 675 | | 1488 | 729 | 729 | 108% |

# National TAB

**Project: PROJECT MAVERICK (FALLON, NV)**

## System/Unit: FAN - Exhaust

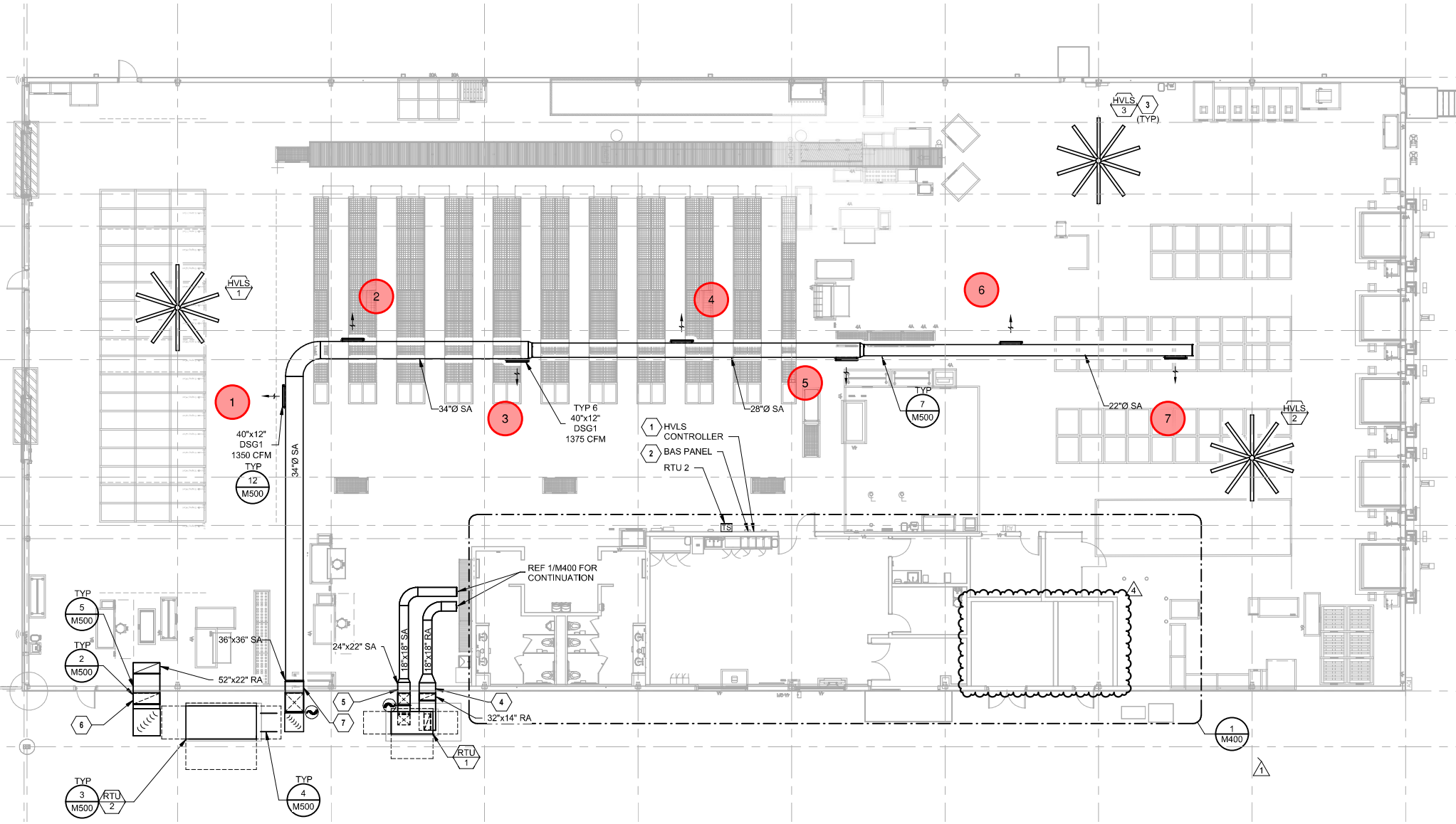
**Asset: EF2** AREA:119 FIRE RISER

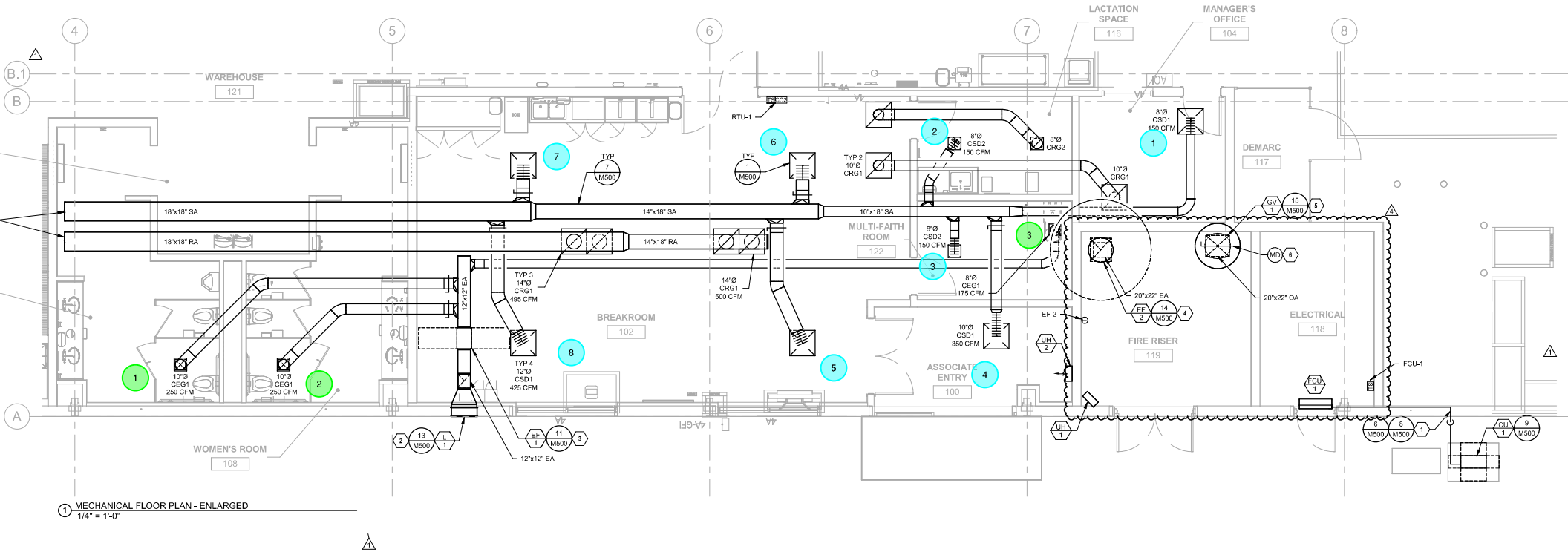
| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | GREENHECK | GREENHECK |
| **Model Num** | GB-180 | GB-180 |
| **Serial Num** | - | 25432292 |
| **Type** | UPBLAST | UPBLAST |
| **Configuration** | VERTICAL | VERTICAL |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | VARI-GREENGREEN |
| **Frame** | - | NL |
| **Horsepower** | 1 | 1 |
| **Motor Rpm** | - | 1750 |
| **Phase** | 1 | 1 |
| **Voltage (rated)** | 115 | 115 |
| **Amperage (rated)** | - | 11.5 |
| **Service Factor** | - | NL |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **CFM** | 2730 | 2653 |
| **Fan RPM** | 906 | 1225 |
| **Fan Rotation** | - | CCW |
| **Motor RPM** | - | 1225 |
| **System SetPt** | - | 7 |
| **RL Voltage** | - | NA |
| **RL Amperage** | - | NA |
| **Total ESP** | 0.50" | 0.44" |
| **Fan Inlet SP** | - | -0.44" |
| **Fan Discharge SP** | - | ATM |

Completed By: Zack Eismin on 11/26/2024






1 MECHANICAL FLOOR PLAN - ENLARGED
1/4" = 1'-0"