

WHITE PAPER

ANYTIME FITNESS

THE INTELLECTUAL PROPERTY
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OVERVIEW OF CHALLENGE IN THE PROJECT

Anytime Fitness was in a plan to open a new gym and training centre at Winfield, Indiana in an existing commercial building. The building was shared occupancy where the second floor was occupied by another tenant.

Anytime fitness centre had a big white box space of around 7,500 sq. ft. with existing base building services such as water and electric power supply. The Tenant on the second floor was partially occupying the Anytime Fitness's roof space.

We had two main challenges while designing this fitness centre -

- 1.Placing outdoor air conditioning units to keep minimum exposed duct work at fitness centre's ceiling
- 2.Overcoming difficulties in MEP design caused due to shared building services

YOUR ONE STOP
SHOP FOR ALL
MEP DESIGN
NEEDS

OUR CUSTOM SOLUTION

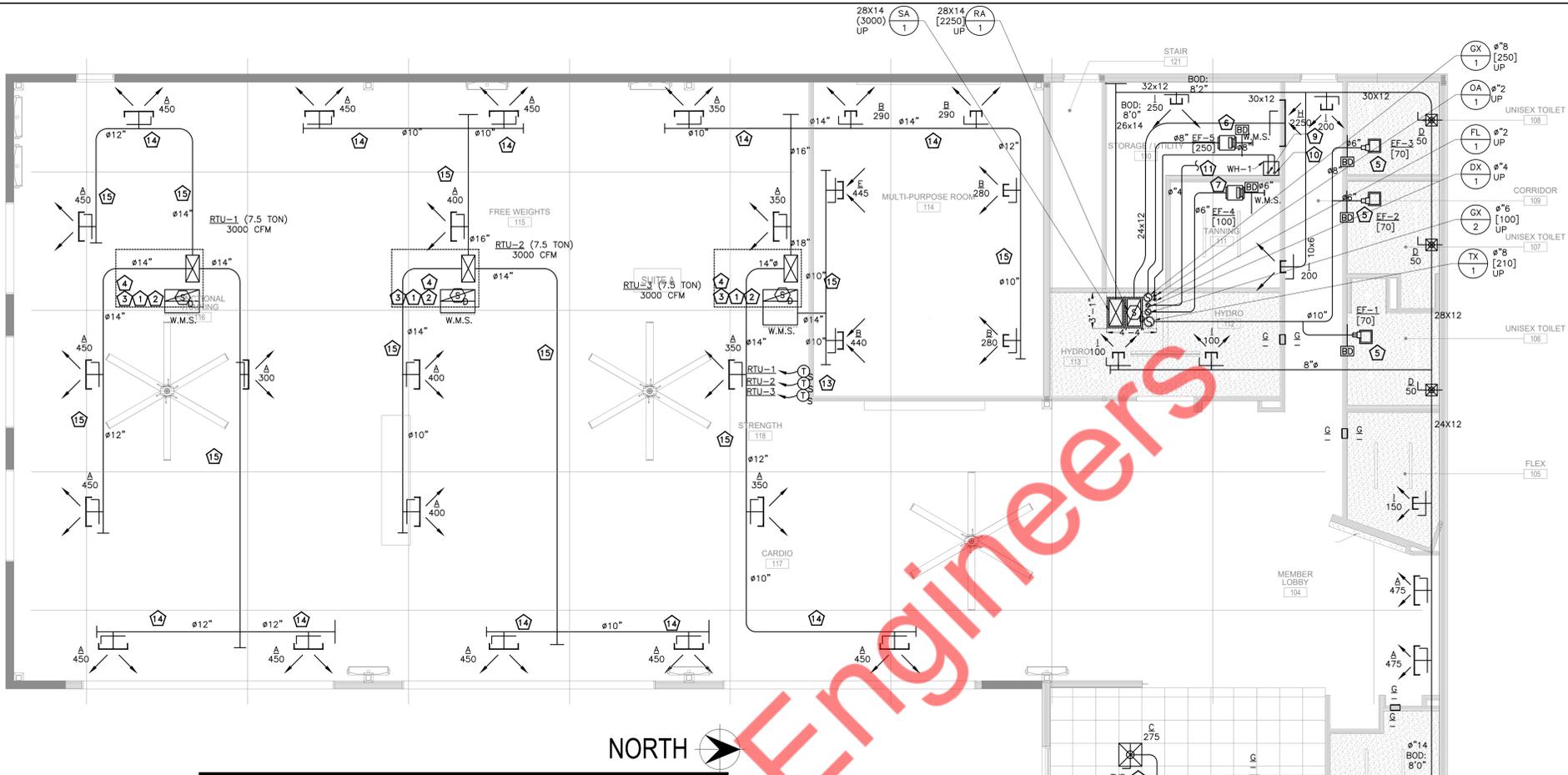
Our team of engineers calculated the new electrical power and water requirement for the existing services to meet all local and franchise standards.

To overcome the space crunch on the roof, our team designed the MEP system for Anytime Fitness where additional units were placed on the second floor roof. We coordinated with the second floor occupant and a new common shaft was added through which a duct was placed for air flow.

By successfully designing this complicated project, we managed to utilize existing roof space, reduce the duct work and saved the cost for the owner. The entire franchise was designed within 2 weeks, at an affordable cost.

AREA - 7,500 Sq. Ft.

Services Used - Mechanical, Electrical, Plumbing



1ST FLOOR MECHANICAL FLOOR PLAN (TENANT#1)

| HVAC LEGEND | | MECHANICAL NOTES | | DRAWING CODED NOTES | | DRAWING CODED NOTES | |
|-------------|-----------------------------|---|--|--|--|---------------------|--|
| SYMBOL | DESCRIPTION | 1. ALL EQUIPMENT, INSTALLATION AND MATERIALS SHALL COMPLY WITH ALL APPLICABLE LANDLORD CRITERIA. | ① NEW ROOF TOP UNITS TO BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION. SEE SCHEDULE FOR AIR BALANCING AND SPECIFICATION. VERIFY EXACT LOCATION ON SITE. | ⑦ FURNISH AND INSTALL NEW TANNING ROOM EXHAUST FAN EF-4. SUPPORT FROM STRUCTURE ABOVE. CONNECT WITH #8" RIGID DUCT W/BACK DRAFT DAMPER. | ⑦ FURNISH AND INSTALL NEW TANNING ROOM EXHAUST FAN EF-4. SUPPORT FROM STRUCTURE ABOVE. CONNECT WITH #8" RIGID DUCT W/BACK DRAFT DAMPER. | | |
| □ | SUPPLY AIR DIFFUSER | 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING, PRIOR TO FINAL BID, ALL EXISTING STUB-INS, TAPS, ETC. FOR PLUMBING AND MECHANICAL SYSTEMS WITHIN TENANT SPACE. | ② ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL NEW DUCT SMOKE DETECTOR IN RETURN MAIN DUCT AND REMOTE TEST STATION WITH VISIBLE AND AUDIBLE ALARM. SMOKE DETECTOR SHALL SHUT DOWN HVAC UNIT UPON DETECTION OF SMOKE. COORDINATE FINAL LOCATION OF REMOTE TEST STATION WITH AHU. | ⑧ TENANT CONTRACTOR SHALL COORDINATE INSTALLATION OF DUCT DROP TO DIFFUSER LOCATED IN LAY-IN CEILING IN A MANNER TO LIMIT FLEX DUCT TO A MAXIMUM OF 14'-0". FLEX DUCT SHALL NOT BE VISIBLE FROM OPEN AREAS WITHIN TENANT SPACE. | ⑧ TENANT CONTRACTOR SHALL COORDINATE INSTALLATION OF DUCT DROP TO DIFFUSER LOCATED IN LAY-IN CEILING IN A MANNER TO LIMIT FLEX DUCT TO A MAXIMUM OF 14'-0". FLEX DUCT SHALL NOT BE VISIBLE FROM OPEN AREAS WITHIN TENANT SPACE. | | |
| □ | SUPPLY AIR DIFFUSER | 3. NO FIBERGLASS DUCT BOARD ALLOWED. | ③ ROUTE FULL SIZE SUPPLY AIR DUCT DROP DOWN FROM SUPPLY AIR ROOF CURB OPENING AND TRANSITION INTO DUCTWORK AS SHOWN ON PLAN. VERIFY ROUTING, SIZE AND LOCATION ON SITE. BOTTOM OF SUPPLY AIR DUCT DROP SHALL TERMINATE AS HIGH AS POSSIBLE. | ⑨ 2" WATER HEATER AIR INTAKE PIPE UP THROUGH ROOF. | ⑨ 2" WATER HEATER AIR INTAKE PIPE UP THROUGH ROOF. | | |
| □ | RETURN AIR GRILLE | 4. BRANCH DUCT RUN OUTS TO DIFFUSERS SHALL BE SAME SIZE AS DIFFUSER NECK UNLESS OTHERWISE SPECIFIED. | ④ ROUTE FULL SIZE RETURN AIR DUCT DROP FROM RETURN AIR ROOF CURB OPENING AND PROVIDE 90° ELBOW AND TERMINATE AS HIGH AS POSSIBLE. COVER OPEN END OF RETURN DUCT WITH 1/2" MESH HARDWARE. CLOTH IN REMOVABLE METAL FRAME. BOTTOM OF RETURN AIR DUCT DROP SHALL TERMINATE AS HIGH AS POSSIBLE. | ⑩ 2" WATER HEATER EXHAUST VENT PIPE UP THROUGH ROOF. | ⑩ 2" WATER HEATER EXHAUST VENT PIPE UP THROUGH ROOF. | | |
| □ | CEILING MOUNTED EXHAUST FAN | 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINAL CONNECTIONS TO THE LANDLORD'S BASE SYSTEMS. COORDINATE ALL SYSTEMS IN THE FIELD. | ⑤ FURNISH AND INSTALL NEW EXHAUST FANS AND CONNECT WITH #8" RIGID DUCT W/BACKDRAFT DAMPERS. | ⑪ ROUTE #4" RIGID DUCT UP FROM CLOTHES DRYER AND TERMINATE AT THE ROOF. TERMINATE WITH GOOSENECK AND BIRD SCREEN. | ⑪ ROUTE #4" RIGID DUCT UP FROM CLOTHES DRYER AND TERMINATE AT THE ROOF. TERMINATE WITH GOOSENECK AND BIRD SCREEN. | | |
| ⊙ | THERMOSTAT | 6. VERIFY LOCATION OF ANY PENETRATION OF ROOF WITH LANDLORD. ALL ROOF PENETRATIONS, PATCHING MID FLASHING SHALL BE BY LANDLORD APPROVED ROOFING CONTRACTOR AT TENANT CONTRACTOR'S EXPENSE. | ⑥ FURNISH AND INSTALL NEW UTILITY ROOM EXHAUST FAN EF-5. SUPPORT FROM STRUCTURE ABOVE. CONNECT WITH #10" RIGID DUCT W/BACK DRAFT DAMPER. | ⑫ INSTALL AND WIRE NEW 7-DAY PROGRAMMABLE THERMOSTAT. COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN. | ⑫ INSTALL AND WIRE NEW 7-DAY PROGRAMMABLE THERMOSTAT. COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN. | | |
| — | VOLUME DAMPER | 7. PVC PIPING IS PROHIBITED. | | ⑬ PROVIDE AVERAGING SPACE TEMPERATURE SENSORS FOR THERMOSTAT SERVING DESIGNATED ROOF TOP UNIT. MOUNT AVERAGING SPACE TEMPERATURE SENSOR AT 48" ABOVE FINISHED FLOOR IN LOCATIONS SHOWN. PROVIDE INSULATED BASE WHEN LOCATED ON AN EXTERIOR WALL. | ⑬ PROVIDE AVERAGING SPACE TEMPERATURE SENSORS FOR THERMOSTAT SERVING DESIGNATED ROOF TOP UNIT. MOUNT AVERAGING SPACE TEMPERATURE SENSOR AT 48" ABOVE FINISHED FLOOR IN LOCATIONS SHOWN. PROVIDE INSULATED BASE WHEN LOCATED ON AN EXTERIOR WALL. | | |
| — | FLEXIBLE DUCT | 8. ALL FIRE PROTECTION AND SPRINKLER WORK SHALL BE PERFORMED BY LANDLORD-APPROVED ARE PROTECTION CONTRACTOR AT THE TENANT'S EXPENSE. | | ⑭ DUCTS RUNNING THROUGH THE TRUSS OPENING. | ⑭ DUCTS RUNNING THROUGH THE TRUSS OPENING. | | |
| — | FIRE DAMPER | 9. CONTRACTOR SHALL SUBMIT AIR BALANCE REPORT INCLUDING ALL ASSOCIATED AIR TEMPERATURES AND PRESSURES AS APPLICABLE. SEND TWO COPIES TO OWNER FOR APPROVAL. | | ⑮ DUCTS RUNNING BETWEEN THE TRUSSES. | ⑮ DUCTS RUNNING BETWEEN THE TRUSSES. | | |
| — | FIRE & SMOKE DAMPER | 10. EXPOSED DUCTWORK SHALL BE STANDARD SPIRAL ROUND GALVANIZED SHEET METAL DUCTWORK 24 GAUGE UP TO 30", 22 GAUGE - 32" TO 50". ALL EXPOSED SPIRAL DUCTWORK SHALL BE INSTALLED AS HIGH AS POSSIBLE. COORDINATE ROUTING IN FIELD WITH OTHER TRADES PRIOR TO INSTALLATION. CONTACT ARCH. IF THERE ARE ANY FIELD DISCREPANCIES AND CONFLICTS. | | | | | |
| — | DUCT SMOKE DETECTOR | | | | | | |

| UNIT TAG | LOCATION | TENANT | TR | SUPPLY AIRFLOW (CFM) | OUTSIDE AIR (CFM) | ESP (IN. OF W.C.) | MAX.FAN BHP | MCA/MOP (A) | V/PH/HZ | COOLING CAPACITY TOTAL (MBH) | COOLING CAPACITY SENSIBLE (MBH) | HEATING CAPACITY MBH INPUT | HEATING CAPACITY MBH OUTPUT | NATURAL GAS PRESS. INCH OF WC | MANUFACTURER & MODEL NO. | IEER | THERMAL EFF.(%) | EER | WEIGHT (LBS.) | REMARKS |
|----------|----------------|------------------|-----|----------------------|-------------------|-------------------|-------------|-------------|--------------|------------------------------|---------------------------------|----------------------------|-----------------------------|-------------------------------|--------------------------|------|-----------------|-----|---------------|---------|
| RTU-1 | 1ST FLOOR ROOF | 1ST FLOOR TENANT | 7.5 | 3000 | 900 | 1 | 1.6 | 41/60 | 208-230/3/60 | 88 | 62.7 | 150 | 121.5 | 5-10.5 | DAIKIN MPSA07DGC | 14.8 | 81 | 11 | 1031 | NEW |
| RTU-2 | 1ST FLOOR ROOF | 1ST FLOOR TENANT | 7.5 | 3000 | 900 | 1 | 1.6 | 41/60 | 208-230/3/60 | 88 | 62.7 | 150 | 121.5 | 5-10.5 | DAIKIN MPSA07DGC | 14.8 | 81 | 11 | 1031 | NEW |
| RTU-3 | 1ST FLOOR ROOF | 1ST FLOOR TENANT | 7.5 | 3000 | 655 | 1 | 1.6 | 41/60 | 208-230/3/60 | 88 | 62.7 | 150 | 121.5 | 5-10.5 | DAIKIN MPSA07DGC | 14.8 | 81 | 11 | 1031 | NEW |
| RTU-4 | 2ND FLOOR ROOF | 1ST FLOOR TENANT | 7.5 | 3000 | 415 | 1 | 1.6 | 41/60 | 208-230/3/60 | 88 | 62.7 | 150 | 121.5 | 5-10.5 | DAIKIN MPSA07DGC | 14.8 | 81 | 11 | 1031 | NEW |
| RTU-5 | 2ND FLOOR ROOF | 2ND FLOOR TENANT | 7.5 | 3000 | 240 | 1 | 1.6 | 41/60 | 208-230/3/60 | 88 | 62.7 | 150 | 121.5 | 5-10.5 | DAIKIN MPSA07DGC | 14.8 | 81 | 11 | 1031 | NEW |

| TAG | SERVICE | MOUNTING TYPE | DIMENSION (IN.) | ACCESSORIES | FINISH | MANUF. | MODEL NO. |
|-----|---------|---------------|-----------------|-------------|----------|--------|-----------|
| A | SUPPLY | DUCT MTD. | 30"x6" | OBD | SEE NOTE | TITUS | 300RL |
| B | SUPPLY | DUCT MTD. | 12"x8" | OBD | SEE NOTE | TITUS | 300RL |
| C | SUPPLY | LAY-IN | 24"x24" | OBD | SEE NOTE | TITUS | TMS |
| D | SUPPLY | LAY-IN | 12"x12" | OBD | SEE NOTE | TITUS | TMS |
| E | RETURN | DUCT MTD. | 18"x6" | OBD | SEE NOTE | TITUS | 350RL |
| F | RETURN | DUCT MTD. | 30"x6" | OBD | SEE NOTE | TITUS | 350RL |
| G | RETURN | DUCT MTD. | 10x6 | OBD | SEE NOTE | TITUS | 300RL |
| H | RETURN | DUCT MTD. | 48X10 | OBD | SEE NOTE | TITUS | 300RL |
| I | SUPPLY | DUCT MTD. | 10X6 | OBD | SEE NOTE | TITUS | 350RL |
| J | RETURN | LAY-IN | 24"x24" | OBD | SEE NOTE | TITUS | TMS |
| K | RETURN | LAY-IN | 30"x8" | OBD | SEE NOTE | TITUS | 350RL |

- REMARKS-
- PROVIDE DISCONNECT SWITCH.
 - PROVIDE NON-POWERED GFI OUTLET.
 - PROVIDE HINGED ACCESS PANELS AND EXTERNAL GAUGE PORTS/PRESSURE RESISTS.
 - PROVIDE 14" ROOF CURB.
 - BOTTOM SUPPLY AND RETURN DUCTS FOR RTU-1,2,3&5 AND HORIZONTAL SUPPLY AND RETURN DUCT FOR RTU-4.
 - PROVIDE ENTHALPY ECONOMIZER WITH 100% BAROMETRIC RELIEF.
 - ALL T-STAT PROVIDED WITH LOCKING COVERS.
 - 7 DAYS PROGRAMMABLE THERMOSTAT.
 - PROVIDE HOT GAS BYPASS SYSTEM. THE CAPACITY OF HOT GAS BYPASS SHALL BE LIMITED TO 50% OF TOTAL UNIT CAPACITY.
 - PROVIDE REHEAT MODE TO CONTROL HUMIDITY.

| FAN TAG | SERVICE | AIRFLOW (CFM) | ESP (IN.WG) | ELECTRIC POWER | V/PH. | MANUF. & MODEL NO. | WEIGHT (LBS) | REMARK |
|---------|-----------------|---------------|-------------|----------------|-------|--------------------|--------------|--------|
| EF-1 | UNISEX TOILET | 70 | 0.3 | 6 WATTS | 115/1 | GREENHECK SP-80-VG | 12 | 1-2 |
| EF-2 | UNISEX TOILET | 70 | 0.3 | 6 WATTS | 115/1 | GREENHECK SP-80-VG | 12 | 1-2 |
| EF-3 | UNISEX TOILET | 70 | 0.3 | 6 WATTS | 115/1 | GREENHECK SP-80-VG | 12 | 1-2 |
| EF-4 | TANNING | 100 | 0.3 | 1/15 HP | 115/1 | GREENHECK SQ-60-VG | 32 | 1-2 |
| EF-5 | STORAGE/UTILITY | 250 | 0.3 | 1/10 HP | 115/1 | GREENHECK SQ-80-VG | 49 | 1-2 |

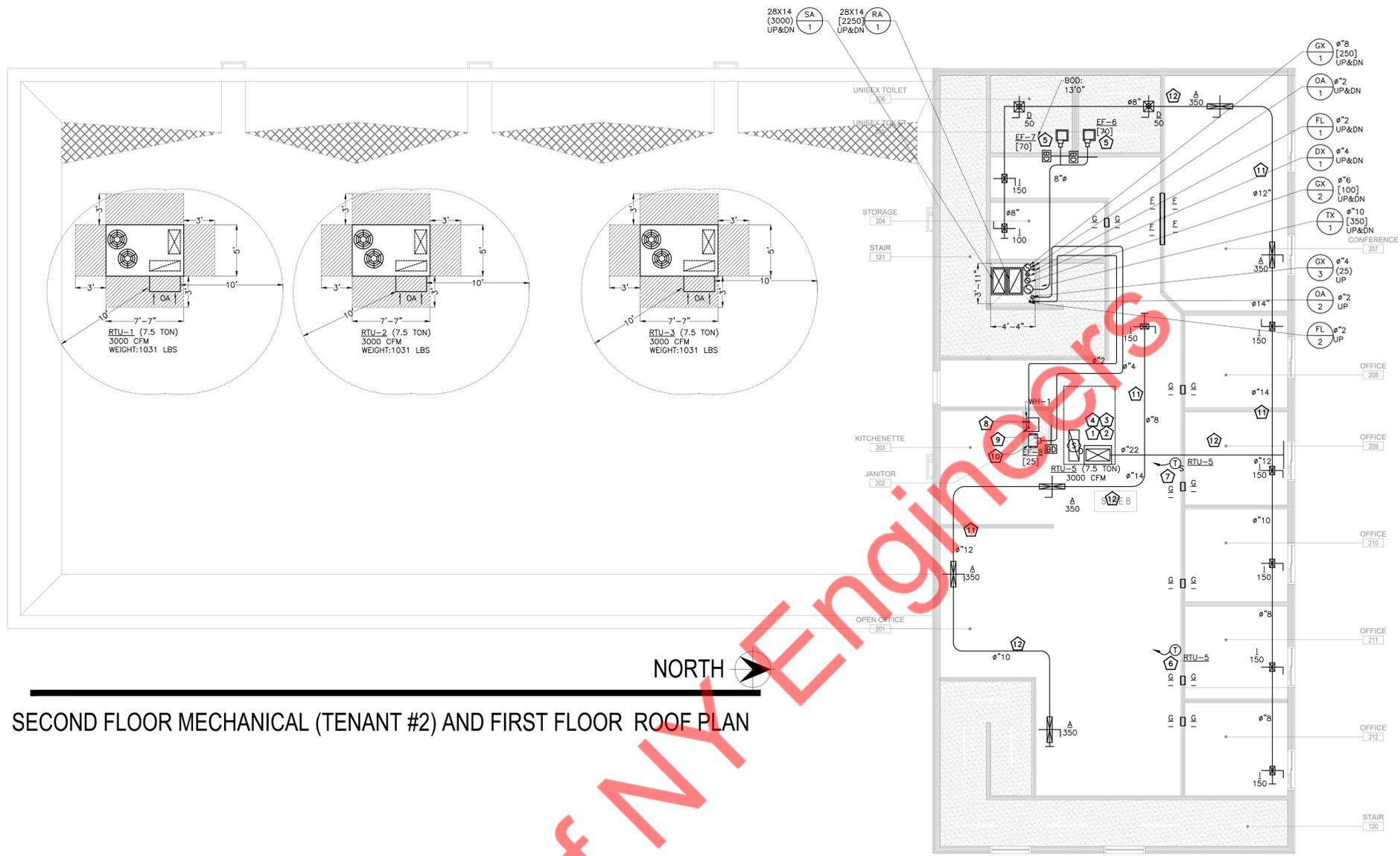
- REMARKS-
- DISCONNECT SWITCH GRAVITY BACKDRAFT DAMPER, FLEXIBLE DUCT COLLAR CONNECTION.
 - ELECTRICAL CONTRACTOR SHALL INTERLOCK WITH ROOM LIGHT CONTROLLED VIA LIGHT SWITCH IN RESTROOM

- NOTES-
- ALL GRILLES, REGISTERS & DIFFUSERS MUST BE PAINTED TO MATCH CEILING TILE COLOR. VERIFY EXACT COLOR WITH ARCHITECT.
 - APPROVED EQUALS ACCEPTED.

| ROOM NAME | AREA (SQ.FT.) | NUMBER OF PEOPLE/1000sq.ft AS PER 2012 IMC | NUMBER OF PEOPLE 2012 IMC | NUMBER OF CHAIR | FINAL PEOPLE NO. | MIN OUTSIDE AIR AS PER 2012 IMC CFM/PEOPLE | CFM/SQ.FT | REQ. OA (CFM) | PROVIDED OA (CFM) | EXHAUST AIRFLOW RATE (CFM/SQ.FT OR/FIXTURE) | REQ. EXHAUST (CFM) | PROV. EXHA. (CFM) |
|-------------------------|---------------|--|---------------------------|-----------------|------------------|--|-----------|---------------|-------------------|---|--------------------|-------------------|
| 115 FREE WEIGHT | 2695 | 10 | 27 | 55 | 55 | 20 | 0.06 | 1262 | 1280 | 0 | 0 | 0 |
| 116 FUNCTIONAL TRAINING | 780 | 10 | 8 | 17 | 17 | 20 | 0.06 | 387 | 390 | 0 | 0 | 0 |
| 117 CARDIO | 1130 | 10 | 12 | 23 | 23 | 20 | 0.06 | 528 | 530 | 0 | 0 | 0 |
| 118 MULTI PURPOSE | 540 | 10 | 6 | 11 | 11 | 20 | 0.06 | 252 | 255 | 0 | 0 | 0 |
| TOTAL | | | | | | | | 2429 | 2455 | - | 0 | 0 |

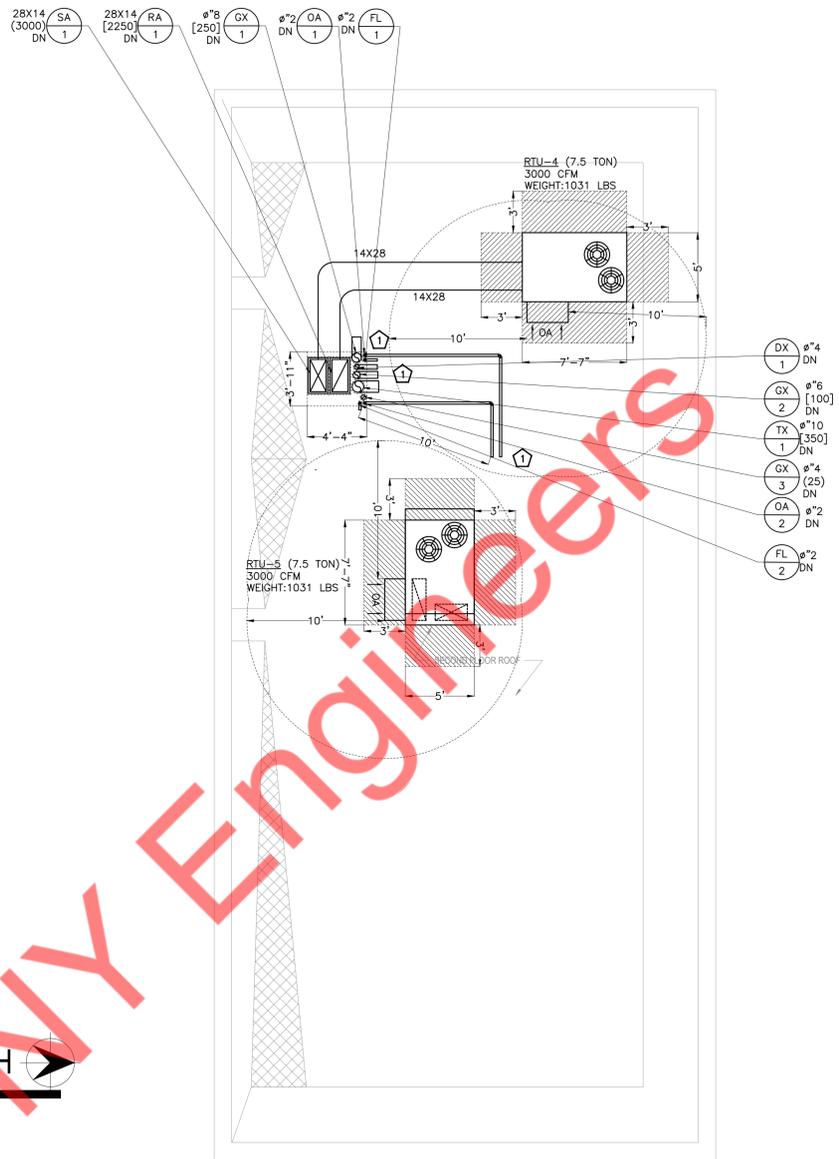
| ROOM NAME | AREA (SQ.FT.) | NUMBER OF PEOPLE/1000sq.ft AS PER 2012 IMC | NUMBER OF PEOPLE 2012 IMC | NUMBER OF CHAIR | FINAL PEOPLE NO. | MIN OUTSIDE AIR AS PER 2012 IMC CFM/PEOPLE | CFM/SQ.FT | REQ. OA (CFM) | PROVIDED OA (CFM) | EXHAUST AIRFLOW RATE (CFM/SQ.FT OR/FIXTURE) | REQ. EXHAUST (CFM) | PROV. EXHA. (CFM) |
|---------------------|---------------|--|---------------------------|-----------------|------------------|--|-----------|---------------|-------------------|---|--------------------|-------------------|
| 101 GUEST LOBBY | 335 | 30 | 11 | 4 | 11 | 7.5 | 0.18 | 143 | 150 | 0 | 0 | 0 |
| 102 OFFICE | 100 | 5 | 1 | 1 | 1 | 5 | 0.06 | 11 | 15 | 0 | 0 | 0 |
| 103 THERAPY | 150 | 10 | 2 | 2 | 2 | 20 | 0.06 | 49 | 50 | 0 | 0 | 0 |
| 104 MEMBERS LOBBY | 240 | 30 | 8 | 3 | 8 | 7.5 | 0.18 | 103 | 110 | 0 | 0 | 0 |
| 105 FLEX | 85 | 5 | 1 | 2 | 2 | 5 | 0.06 | 15 | 20 | 0 | 0 | 0 |
| 106 UNISEX TOILET | 73 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 70 | 70 | |
| 107 UNISEX TOILET | 73 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 70 | 70 | |
| 108 UNISEX TOILET | 64 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 70 | 70 | |
| 109 CORRIDOR | 143 | 5 | 1 | 0 | 1 | 5 | 0.06 | 14 | 20 | 0 | 0 | 0 |
| 110 UTILITY/STORAGE | 255 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 255 | |
| 111 TANNING | 87 | 10 | 1 | 2 | 2 | 20 | 0.06 | 45 | 50 | 1 | 87 | |
| TOTAL | | | | | | | | 380 | 415 | - | 552 | 560 |

| ROOM NAME | AREA (SQ.FT.) | NUMBER OF PEOPLE/1000sq.ft AS PER 2012 IMC | NUMBER OF PEOPLE 2012 IMC | NUMBER OF CHAIR | FINAL PEOPLE NO. | MIN OUTSIDE AIR AS PER 2012 IMC CFM/PEOPLE | CFM/SQ.FT | REQ. OA (CFM) | PROVIDED OA (CFM) | EXHAUST AIRFLOW RATE (CFM/SQ.FT OR/FIXTURE) | REQ. EXHAUST (CFM) | PROV. EXHA. (CFM) |
|-----------------|---------------|--|---------------------------|-----------------|------------------|--|-----------|---------------|-------------------|---|--------------------|-------------------|
| OPEN OFFICE | 930 | 5 | 5 | 5 | 5 | 5 | 0.06 | 81 | 90 | 0 | 0 | 0 |
| KITCHENETTE | 35 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| UNISEX TOILET | 58 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 70 | 70 | |
| UNISEX TOILET | 58 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 70 | 70 | |
| JANITOR | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.0 | 2 | |
| STORAGE | 61 | 0 | 0 | 0 | 0 | 0 | 0.12 | 7 | 10 | 0 | 0 | |
| CONFERENCE ROOM | 272 | 50 | 14 | 14 | 14 | 5 | 0.06 | 86 | 90 | 0 | 0 | |
| OFFICE 1 | 90 | 5 | 1 | 1 | 1 | 5 | 0.06 | 10 | 10 | 0 | 0 | |
| OFFICE 2 | 90 | 5 | 1 | 1 | 1 | 5 | 0.06 | 10 | 10 | 0 | 0 | |
| OFFICE 3 | 90 | 5 | 1 | 1 | 1 | 5 | 0.06 | 10 | 10 | 0 | 0 | |
| OFFICE 4 | 90 | 5 | 1 | 1 | 1 | 5 | 0.06 | 10 | 10 | 0 | 0 | |
| OFFICE 5 | 90 | 5 | 1 | 1 | 1 | 5 | 0.06 | 10 | 10 | 0 | 0 | |
| TOTAL | | | | | | | | 226 | 240 | - | - | 16 |



SECOND FLOOR MECHANICAL (TENANT #2) AND FIRST FLOOR ROOF PLAN

| MECHANICAL NOTES | DRAWING CODED NOTES | DRAWING CODED NOTES | EXHAUST FAN SCHEDULE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|--|----------------|---------|--------------------|--------------|----------------|-------|--------------------|--------------|--------|------|---------------|----|-----|---------|-------|--------------------|----|-----|------|---------------|----|-----|---------|-------|--------------------|----|-----|------|---------|----|-----|----------|-------|------------------|----|-----|
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| FAN TAG | SERVICE | AIRFLOW (CFM) | ESP (IN.WG) | ELECTRIC POWER | V/PH. | MANUF. & MODEL NO. | WEIGHT (LBS) | REMARK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EF-6 | UNISEX TOILET | 70 | 0.3 | 6 WATTS | 115/1 | GREENHECK SP-80-VG | 12 | 1-2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EF-7 | UNISEX TOILET | 70 | 0.3 | 6 WATTS | 115/1 | GREENHECK SP-80-VG | 12 | 1-2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EF-8 | JANITOR | 25 | 0.3 | 12 WATTS | 115/1 | GREENHECK SP-A70 | 12 | 1-2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



2ND FLOOR ROOF PLAN

| MECHANICAL NOTES | DRAWING CODED NOTES |
|---|---|
| <ol style="list-style-type: none"> ALL EQUIPMENT, INSTALLATION AND MATERIALS SHALL COMPLY WITH ALL APPLICABLE LANDLORD CRITERIA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING, PRIOR TO FINAL BID, ALL EXISTING STUB-INS, TAPS, ETC. FOR PLUMBING AND MECHANICAL SYSTEMS WITHIN TENANT SPACE. NO FIBERGLASS DUCT BOARD ALLOWED. BRANCH DUCT RUN OUTS TO DIFFUSERS SHALL BE SAME SIZE AS DIFFUSER NECK UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINAL CONNECTIONS TO THE LANDLORD'S BASE SYSTEMS. COORDINATE ALL SYSTEMS IN THE FIELD. VERIFY LOCATION OF ANY PENETRATION OF ROOF WITH LANDLORD. ALL ROOF PENETRATIONS, PATCHING AND FLASHING SHALL BE BY LANDLORD APPROVED ROOFING CONTRACTOR AT TENANT CONTRACTOR'S EXPENSE. PVC PIPING IS PROHIBITED. ALL FIRE PROTECTION AND SPRINKLER WORK SHALL BE PERFORMED BY LANDLORD-APPROVED FIRE PROTECTION CONTRACTOR AT THE TENANT'S EXPENSE. CONTRACTOR SHALL SUBMIT AIR BALANCE REPORT INCLUDING ALL ASSOCIATED AIR TEMPERATURES AND PRESSURES AS APPLICABLE. SEND TWO COPIES TO OWNER FOR APPROVAL. EXPOSED DUCTWORK SHALL BE STANDARD SPIRAL ROUND GALVANIZED SHEET METAL DUCTWORK 24 GAUGE UP TO 30", 22 GAUGE - 32" TO 50". ALL EXPOSED SPIRAL DUCTWORK SHALL BE INSTALLED AS HIGH AS POSSIBLE. COORDINATE ROUTING IN FIELD WITH OTHER TRADES PRIOR TO INSTALLATION. CONTACT ARCH. IF THERE ARE ANY FIELD DISCREPANCIES AND CONFLICTS. | <p>ROUTE EXHAUST DUCT UP THRU ROOF AND TERMINATE WITH A GOOSENECK W/ BIRD SCREEN 24" ABOVE ROOF. MAINTAIN A MINIMUM OF 10'-0" DISTANCE FROM OUTDOOR AIR INTAKES. VERIFY ROUTING AND LOCATION ON SITE.</p> |