

- MECHANICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START.
- POSITION ALL UNITS & FANS TO PROVIDE ADEQUATE CLEARANCE FOR MAINTENANCE AND PER CODE.
- C. COORDINATE ALL MECHANICAL WORK FOR POTENTIAL CONFLICTS WITH OTHER TRADES.
- D. MAIN DUCT PENETRATIONS SHALL BE FULL SIZE RIGID SHEET MET. DOWN BELOW ROOF WITH ADEQUATE LENGTH TO ATTACH DUCT RUNS AND SMOKE DETECTOR.

### **KEYNOTES**

- TERMINATE WITH BIRD SCREEN
- 2 EXHAUST AIR DUCT UP THROUGH ROOF.
- ROUTE 12'9 OUTSIDE AIR DUCT FROM ABOVE TO RETUN DUCT BACK TO FAN COIL UNIT. INSTALL BALANCING DAMPER AND BALANCE OUTSIDE AIRFO.WT OT THE VALUE SHOWN IN THE OUTSIDE AIR SCHEDULE ON SHEET MU.10. PROVIDE APPROVED CAP ABOVE ROOT MANTIAM MINIMM 10°0" CLEARANCE FROM ANY EXHAUST OR VENT
- ROUTE 10°9 OUTSIDE AIR DUCT FROM ABOVE TO RETUN DUCT BACK TO FAN COIL UNIT. INSTALL BRAJANCING DAMPER AND BALANCE OUTSIDE AIRCUN'TO THE VALUE SHOWN IN THE OUTSIDE AIR SCHEDDLE ON SHEET MIS TO PROVIDE APPROVED CAP ABOVE ROOF.
- PROVIDE CTI GG-CO-NO2 SENSOR OR EQUIVALANT WITH MINIMUM 50 RANGE, INSTALL COINOX SENSOR AT 46° ABOVE FINISHED FLOOR.
- PROVIDE CTI GG-CO-NO2 SENSOR OR EQUIVALANT WITH MINIMUM 50' RANGE. INSTALL COINOX SENSOR AT 48" ABOVE FINISHED FLOOR.
- COORDINATE PLACEMENT OF CEILING FAN WITH DUCTWORK TO ACHIEVE REQUIRED CLEARANCE.



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> **NLV FIRE STATION #51** 2626 E CAREY AVE NORTH LAS VEGAS, NV 89030

& GYM

HVAC PLAN - BAY

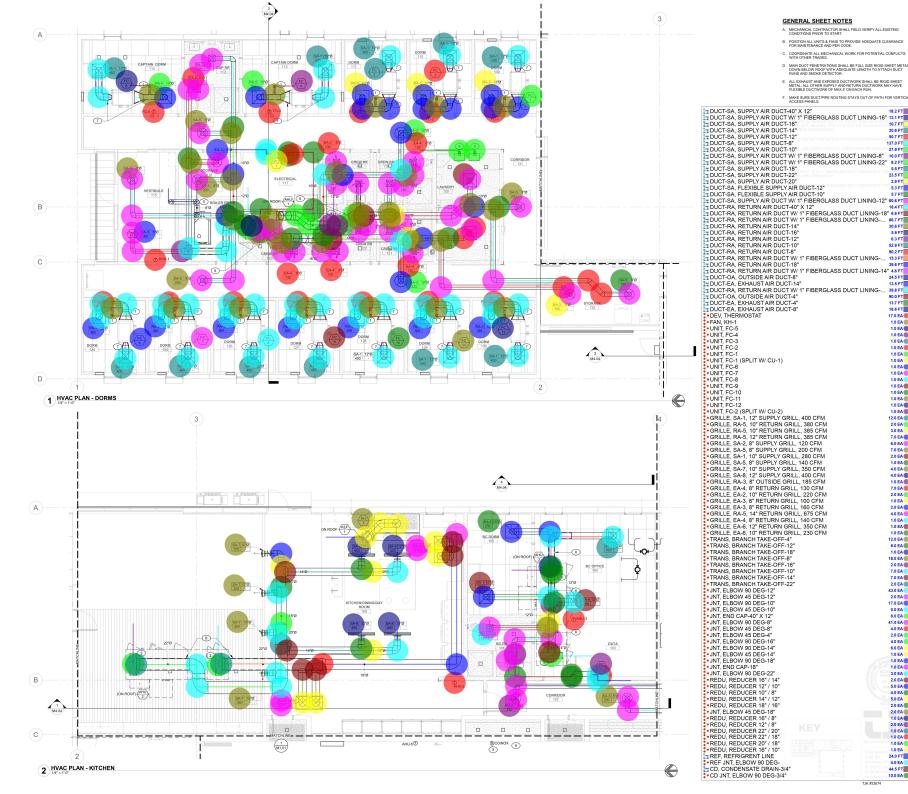
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06/14/2024 NO. T.IK #23074

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- MECHANICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START.
- POSITION ALL UNITS & FANS TO PROVIDE ADEQUATE OF FOR MAINTENANCE AND PER CODE.
- COORDINATE ALL MECHANICAL WORK FOR POTENTIAL CONFLICTS WITH OTHER TRADES.
- MAIN DUCT PENETRATIONS SHALL BE FULL SIZE RIGID SHEET META DOWN BELOW ROOF WITH ADEQUATE LENGTH TO ATTACH DUCT RUNS AND SMOKE DETECTOR.
- ALL EXHAUST AND EXPOSED DUCTWORK SHALL BE RIGID SHEET METAL. ALL OTHER SUPPLY AND RETURN DUCTWORK MAY HAVE FLEXIBLE DUCTWORK OF MAX 5' ON EACH RUN.
- F. MAKE SURE DUCT/PIPE ROUTING STAYS OUT OF PATH FOR VERTICAL ACCESS PANELS.

30.6 FT 50.7 FT 27.9 FT 5.5 FT 23.5 FT 2.9 FT 5.7 FT

30.6 FT

5.9 FT 6.3 FT

52 9 FT

39.8 FT

13.7 FT

16.6 FT

10 FA

1.0 EA

1.0 EA

1.0 EA

1.0 EA

1.0 EA 1.0 EA

1.0 EA

1.0 EA

1.0 EA 1.0 EA

12.0 EA 2.0 EA

3.0 EA 7.0 EA

6.0 EA

7.0 EA 2.0 EA

1.0 EA 4.0 EA 4.0 EA

1.0 EA 7.0 EA

2.0 EA 1.0 EA

2.0 EA 4.0 EA 1.0 EA

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12.0 EA 8.0 EA

10 FA

18.0 EA

7.0 EA 7.0 EA

2.0 EA 43.0 EA

2.0 EA

17.0 EA 0.0 EA

6.0 FA

41.0 EA

4.0 EA 2.0 EA

4.0 EA

6.0 EA 1.0 EA

1.0 EA 1.0 EA

3.0 EA

2.0 EA 6

4.0 EA

5.0 EA

2.0 EA

2.0 EA 1.0 EA

1.0 EA

1.0 EA

24.0 FT

44 5 FT

2.0 EA 1.0 EA

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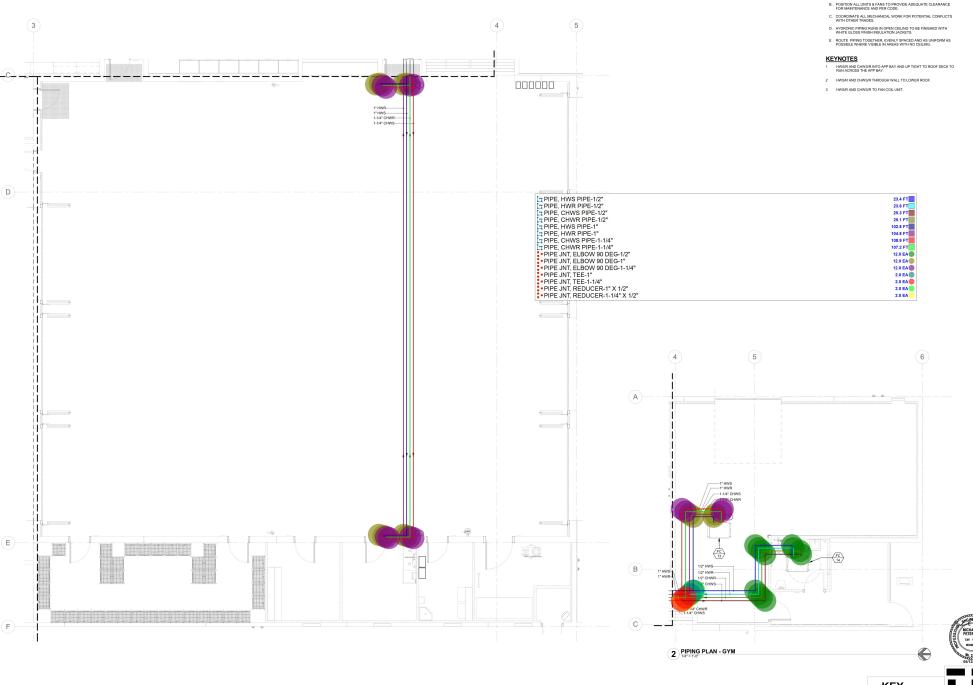
SELLERS CARPENTER

HVAC PLAN - DORMS & KITCHEN **NLV FIRE STATION #51** 2626 E CAREY AVE NORTH LAS VEGAS, NV 89030

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1 PIPING PLAN - BAY

GENERAL SHEET NOTES

- MECHANICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START.

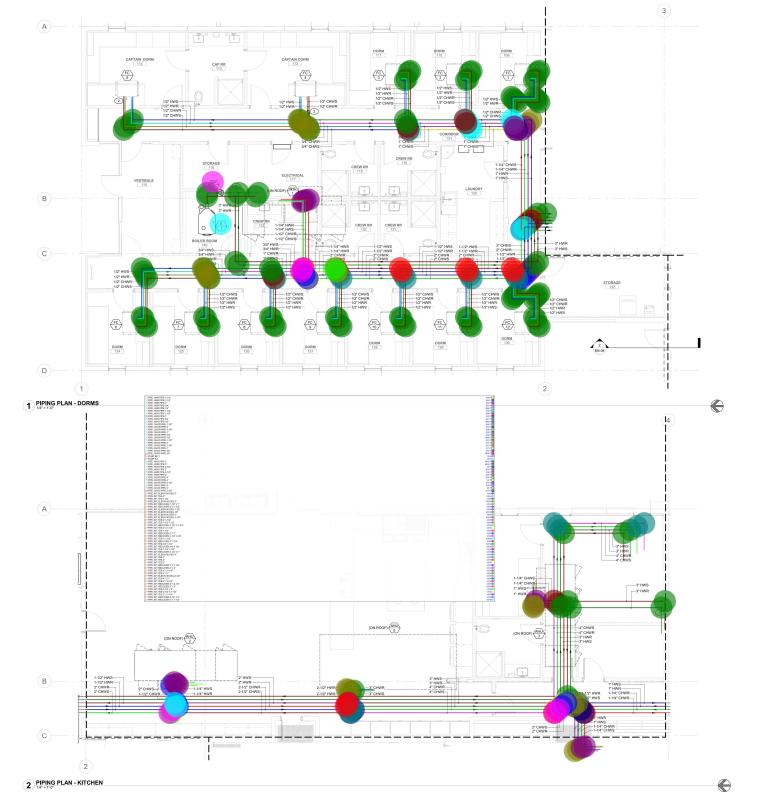
CARPENTER SELLERS DEL CANTO

PIPING PLAN - BAY & GYM NLV FIRE STATION #51 2626 E CAREY AVE NORTH LAS VEGAS, NV 89030

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- MECHANICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START.

# **KEYNOTES**

- 2 HWS/R AND CHWS/R TO FAN COIL UNIT.
- 3 HWS/R UP TO HIGH LEVEL RUN TIGHT TO ROOF DECK









PIPING PLAN - DORMS & KITCHEN NLV FIRE STATION #51 2626 E CAREY AVE NORTH LAS VEGAS, NV 89030



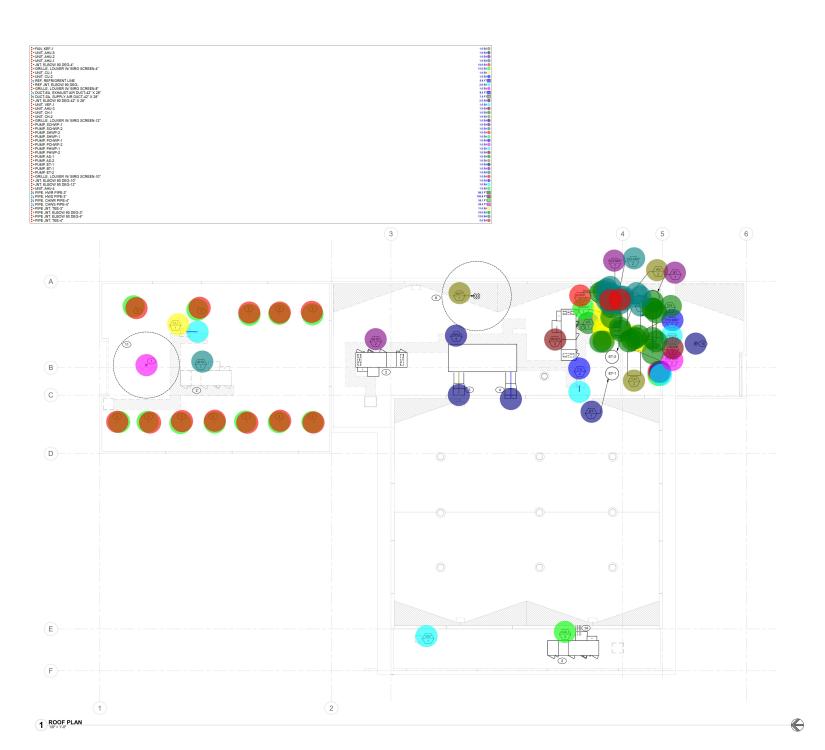


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<sub>DB NO:</sub> TJK #23074



- MECHANICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START.
- B. POSITION ALL UNITS & FANS TO PROVIDE ADEQUATE CLEARANCE FOR MAINTENANCE AND PER CODE.

## **KEYNOTES**

- 1 FLUE DUCT FROM BELOW UP THROUGH ROOF.
- 2 EXHAUST AND SUPPLY DUCTS DOWN FROM MECHANICAL UNIT ON ROOF.
- 3 SUPPLY DUCT FROM MECHANICAL UNIT THROUGH SIDE WALL.

- 6 10'-0" CLEARANCE ZONE FROM EXHAUST FAN.

- 13 CHW & HW S/R TO BELOW.
- 14 HWS/R AND CHWS/R PIPING THROUGH WALL TO AHU ON LOWER ROOF.
- 15 HW SUPPLU AND RETURN TO BELOW.



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ROOF PLAN



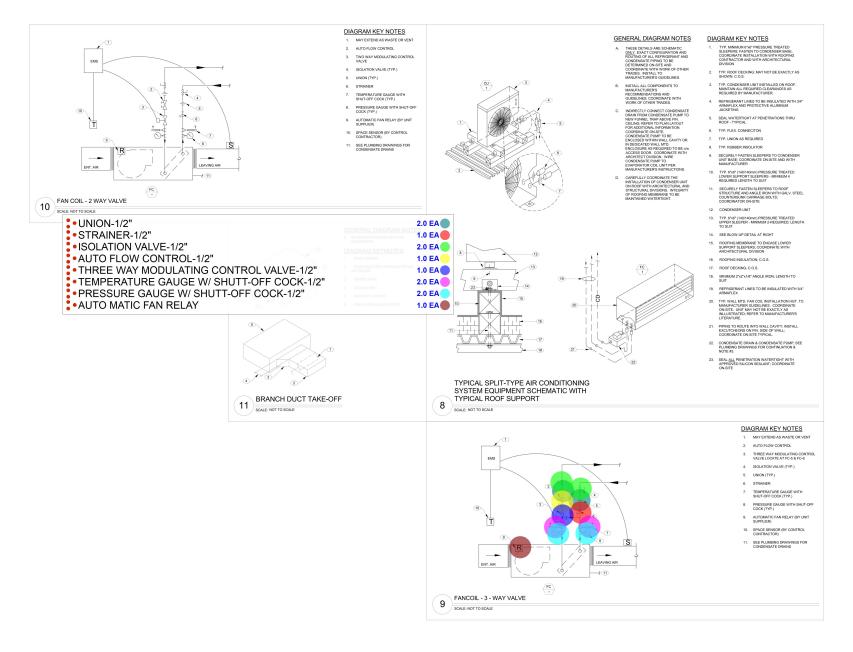


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CARPENTER SELLERS DEL CANTO

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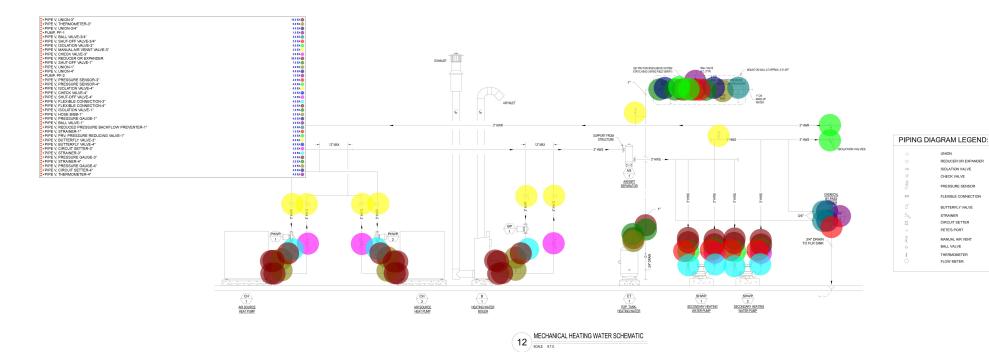
DIAGRAMS



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CH 2 AIR SOURCE HEAT PUMP

CH 1 AIR SOURCE HEAT PUMP

CHRPENTER SELLERS DEL GATTO

NLV FIRE STATION #51 2626 E CAREY AVE NORTH LAS VEGAS, NV 89030 DIAGRAMS

GENERAL NOTE

PROVIDE COMBINATION PUMP DISCHARGE VALVE ON DISCHARGE SIDE OF PUMPS.

REDUCER OR EXPANDER ISOLATION VALVE CHECK VALVE PRESSURE SENSOR FLEXIBLE CONNECTION BUTTERFLY VALVE STRAINER CIRCUIT SETTER PETE'S PORT

MANUAL AIR VENT BALL VALVE THERMOMETER FLOW METER

ET 2 EXP. TANK-CHILLED WATER BT 1 CHILLED WATER BUFFER TANK SCHWP 1 SECONDARY CHLLED WATER PUMP SCHWP 2 SECONDARY CHILLED WATER PLWP

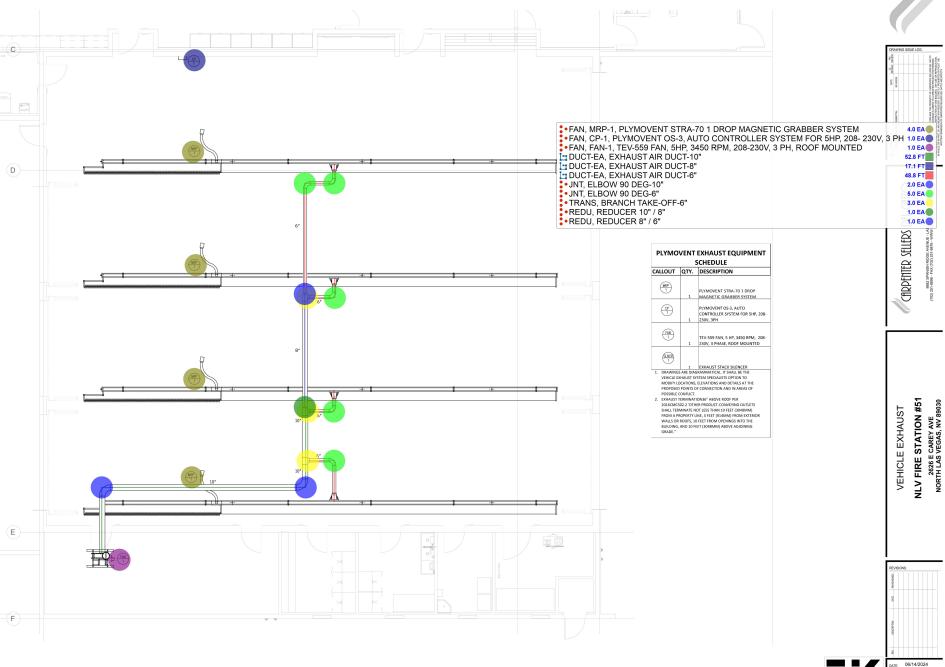
MECHANICAL CHILLED WATER SCHEMATIC

SCHE NTS

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INFORMATION PROVIDED ON THIS SHEET IS FOR REFERENCE ONLY AND IS FO CORDINATION PURPOSES. CONTRACTOR SHALL COORDINATE VEHICLE EXHA



FOR REFERENCE tik consulting engineers

tik consulting engineers, inc. 8728 Spanish Ridge Avenue, Sulle 100 Las Vegas, NV 89148 P: 702.871.3821 F: 702.871.8353 www.tykengineers.com

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