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LICENSED PROFESSIONAL ENGINEER
286782
ANN N. TIEU
02/03/22
STATE OF UTAH

Ann N. Tieu
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Date: 2022.02.02 11:19:52 -08'00'

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SUITE #200
RENTON, WA 98057
PHONE 425-970-3750
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TEI-ENGINEERING.COM

NEW WAREHOUSE

NE Corner of 1000 West & 1000 North
Logan, UT

COSTCO WHOLESALE

#____

TEI #: 21-361
PM: CP
CHECKED BY: PKR/ANT
ISSUED: 02/03/22

MAIN MECHANICAL PLAN

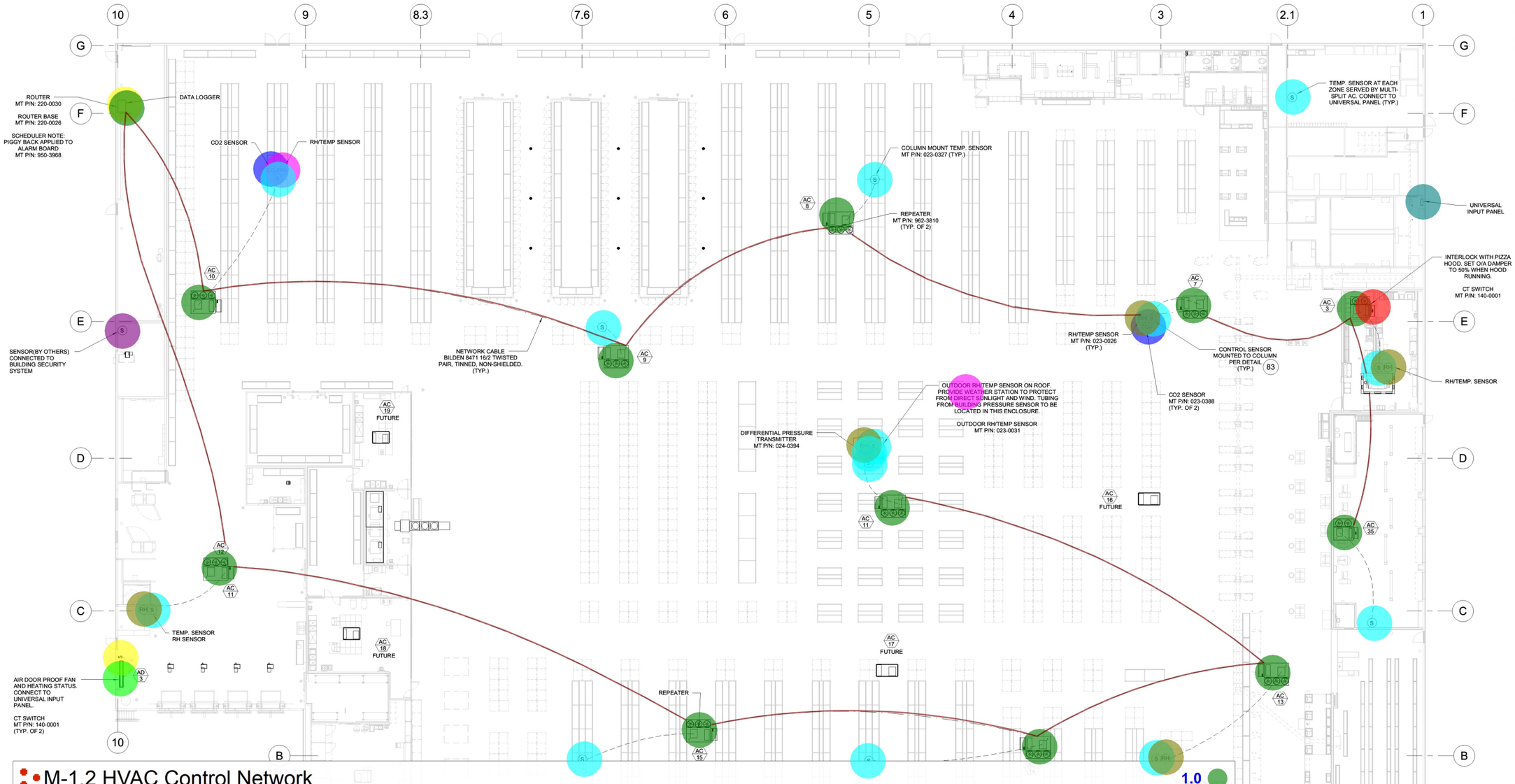
M-1.1

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- M-1.1 Main Mechanical Plan
- Main Mechanical Plan
- Air Conditioner (AC-3) Manufacturer: AAON RN-015-30 EB09-2F2
- Air Conditioner (AC-7) Manufacturer: AAON RN-030-30 EB09-2C2
- Air Conditioner (AC-8) Manufacturer: AAON RN-030-30 EB09-2C2
- Air Conditioner (AC-9) Manufacturer: AAON RN-030-30 EB09-2C2
- Air Conditioner (AC-10) Manufacturer: AAON RN-030-30 EB09-2C2
- Air Conditioner (AC-11) Manufacturer: AAON RN-030-30 EB09-2C2
- Air Conditioner (AC-12) Manufacturer: AAON RN-030-30 EB09-2C2
- Air Conditioner (AC-13) Manufacturer: AAON RN-030-30 EB09-2C2
- Air Conditioner (AC-14) Manufacturer: AAON RN-030-30 EB09-2C2
- Air Conditioner (AC-15) Manufacturer: AAON RN-030-30 EB09-2C2
- AC-16 Future
- AC-17 Future
- AC-18 Future
- AC-19 Future
- AC-28 Future
- Air Conditioner (AC-35) Manufacturer: Sterling GG075
- Gravity Ventilator (GV-1) Manufacturer: Cook GI 48X48GI Elect: 120V
- Gravity Ventilator (GV-2) Manufacturer: Cook GI 24X24GI Elect: 120V
- Exhaust Fan (EF-2) Manufactur: Cook ACE-D 180C10D Elect: 3/4HP 120V
- Exhaust Fan (EF-30) Manufacturer: Cook ACRU-B 402R1OB Elect: 1/8HP 208V
- Exhaust Fan (EF-31) Manufacturer: Cook ACRU-B 402R1OB Elect: 1/8HP 208V
- Control Panel (FCP-1) Manufacturer: Micro Thermo Elect: 208V
- Unit Heater (UH-3) Manufacturer: Sterling GG075
- Unit Heater (UH-8) Manufacturer: Sterling XC200
- Unit Heater (UH-9) Manufacturer: Sterling XC200
- Unit Heater (UH-10) Manufacturer: Sterling XC200
- Unit Heater (UH-11) Manufacturer: Sterling XC200
- Air Door (AD-1) Manufacturer: Power Aire ETD-2-96E
- Air Door (AD-2) Manufacturer: Power Aire ETD-2-96E
- Air Door (AD-3) Manufacturer: Power Aire ETD-3-120E
- Air Door (AD-5) Manufacturer: Power Aire ETD-2-96E
- Air Door (AD-6) Manufacturer: Power Aire TIG 3-120-FI-AVD
- Ceiling Fan (CF-1) Manufacturer: SERCO Elect: 208V/1.5HP
- Ceiling Fan (CF-2) Manufacturer: SERCO Elect: 208V/1.5HP
- Ceiling Fan (CF-3) Manufacturer: Macroair Airlite Elect: 120V/3/4HP
- Ceiling Fan (CF-6) Manufacturer: Macroair Airius Air Pear A-25-SP Elect: 120V/0.32 FLA 35 Watts
- Ceiling Fan (CF-7) Manufacturer: Macroair Airius Air Pear A-25-SP Elect: 120V/0.32 FLA 35 Watts
- Ceiling Fan (CF-8) Manufacturer: Macroair Airius Air Pear A-25-SP Elect: 120V/0.32 FLA 35 Watts
- Ceiling Fan (CF-9) Manufacturer: Macroair Airius Air Pear A-25-SP Elect: 120V/0.32 FLA 35 Watts
- Ceiling Fan (CF-10) Manufacturer: Macroair Airius Air Pear A-25-SP Elect: 120V/0.32 FLA 35 Watts
- Ceiling Fan (CF-11) Manufacturer: Macroair Airius Air Pear A-25-SP Elect: 120V/0.32 FLA 35 Watts
- Ceiling Fan (CF-12) Manufacturer: Macroair Airius Air Pear A-25-SP Elect: 120V/0.32 FLA 35 Watts
- Ceiling Fan (CF-13) Manufacturer: Macroair Airius Air Pear A-25-SP Elect: 120V/0.32 FLA 35 Watts
- Ceiling Fan (CF-14) Manufacturer: Macroair Airius Air Pear A-25-SP Elect: 120V/0.32 FLA 35 Watts
- Infrared Heater (RH-1) Manufacturer: RG Vantage CTH3-80
- Infrared Heater (RH-2) Manufacturer: RG Vantage CTH3-150
- Infrared Heater (RH-3) Manufacturer: RG Vantage CTH3-150
- Infrared Heater (RH-4) Manufacturer: RG Vantage CTH3-150
- Infrared Heater (RH-5) Manufacturer: RG Vantage CTH3-80
- Infrared Heater (RH-6) Manufacturer: RG Vantage CTH3-80
- Air Conditioner (CU-1) Manufacturer: LG LMU600HV
- Air Conditioner (CU-2) Manufacturer: LG LMU600HV
- Air Conditioner (CU-3) Manufacturer: LG LMU600HV
- Air Conditioner (CU-4) Manufacturer: LG LMU600HV
- Time Switch (TS-1) Manufacturer: Tork EW101B Elect: 120V
- Leak Sensor and Coil Status by Refrigeration Contractor
- Install Curb and Cap for Future AC unit
- Thermostat (W/Locking Cover)
- Pull Station Ventilation Override (PS)
- Switch
- Thermostat

1 1/4" Condensate Drain	1,171.8 FT	
1 1/2" Condensate Drain	111.4 FT	
2" Condensate Drain	102.4 FT	
1" Condensate Drain	15.2 FT	

MAIN MECHANICAL PLAN
SCALE: 1/16" = 1'-0"



M-1.2 HVAC Control Network	1.0
HVAC Controls Network Diagram	1.0
Data Logger	1.0
CO2 Sensor	2.0
RH/Temprature Sensor	1.0
Sensor	13.0
Humidistat Sensor	5.0
CT Switch MT P/N: 140-0001	1.0
Universal Input Panel	1.0
Router MT P/N: 220-0030, Router Base MT P/N: 220-0026 Scheduler Note: Piggy Back Applied To Alarm Board MT P/N: ...	1.0
Air Door Proof Fan And Heating Status Connect To Universal Input Panel,	1.0
Interlock With Pizza Hood. Set O/A Damper To 50% When Hood Running CT Switch MT P/N: 140-0001	1.0
Provide Weather Station To Protect From Direct Sunlight and Wind	1.0
Differential Pressure Transmitter	1.0
Repeater MT P/N: 962-3810	11.0
Sensor (By Others) Connected To Building Security System	1.0
Network Cable Bilden 8471 16/2 Twisted Pair, Tinned, Non-Shilded	1,286.5 FT

26 WAGO CONNECTOR DETAIL
SCALE: N.T.S.

83 SENSOR MOUNTING DETAIL
SCALE: N.T.S.

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Logan, UT

COSTCO WHOLESALE

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HVAC CONTROL NETWORK

M-1.2

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ENLARGED MECHANICAL PLANS

M-2.1

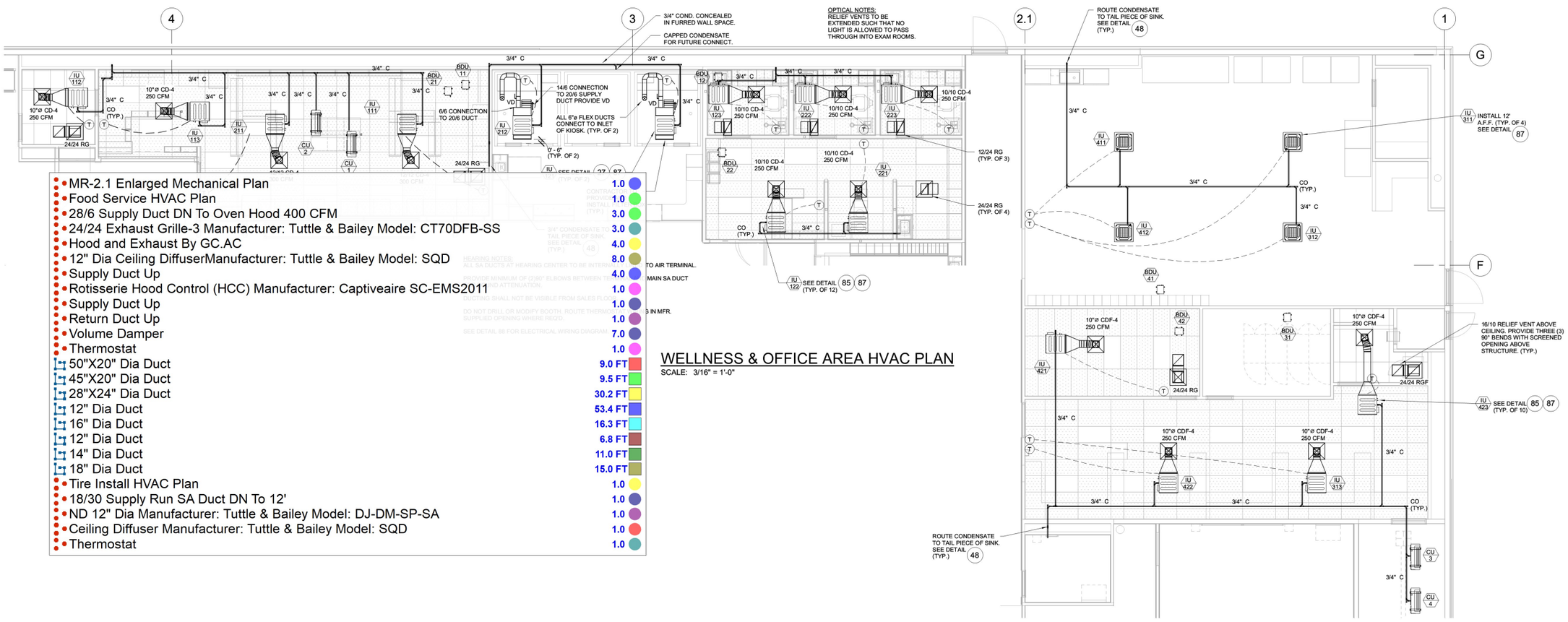
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RECEIVING HVAC PLAN
SCALE: 3/16" = 1'-0"

TIRE INSTALL HVAC PLAN
SCALE: 3/16" = 1'-0"

FRESH LINE HVAC PLAN
SCALE: 1/8" = 1'-0"

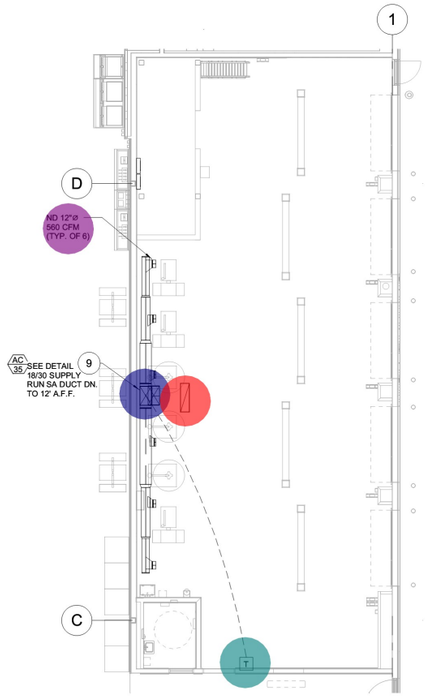
FOOD SERVICE & RESTROOM HVAC PLAN
SCALE: 3/16" = 1'-0"



- MR-2.1 Enlarged Mechanical Plan 1.0
- Food Service HVAC Plan 1.0
- 28/6 Supply Duct DN To Oven Hood 400 CFM 3.0
- 24/24 Exhaust Grille-3 Manufacturer: Tuttle & Bailey Model: CT70DFB-SS 3.0
- Hood and Exhaust By GC.AC 4.0
- 12" Dia Ceiling DiffuserManufacturer: Tuttle & Bailey Model: SQD 8.0
- Supply Duct Up 4.0
- Rotisserie Hood Control (HCC) Manufacturer: Captiveaire SC-EMS2011 1.0
- Supply Duct Up 1.0
- Return Duct Up 1.0
- Volume Damper 7.0
- Thermostat 1.0
- 50"X20" Dia Duct 9.0 FT
- 45"X20" Dia Duct 9.5 FT
- 28"X24" Dia Duct 30.2 FT
- 12" Dia Duct 53.4 FT
- 16" Dia Duct 16.3 FT
- 12" Dia Duct 6.8 FT
- 14" Dia Duct 11.0 FT
- 18" Dia Duct 15.0 FT
- Tire Install HVAC Plan 1.0
- 18/30 Supply Run SA Duct DN To 12' 1.0
- ND 12" Dia Manufacturer: Tuttle & Bailey Model: DJ-DM-SP-SA 1.0
- Ceiling Diffuser Manufacturer: Tuttle & Bailey Model: SQD 1.0
- Thermostat 1.0

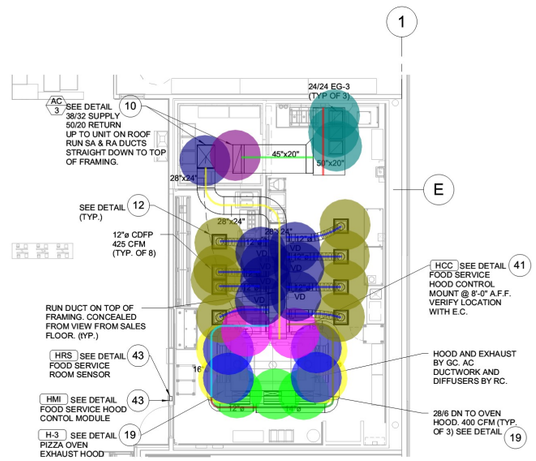
WELLNESS & OFFICE AREA HVAC PLAN

SCALE: 3/16" = 1'-0"



TIRE INSTALL HVAC PLAN

SCALE: 1/8" = 1'-0"



FOOD SERVICE HVAC PLAN

SCALE: 1/8" = 1'-0"

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LICENSED PROFESSIONAL ENGINEER 285782 ANN N. TIEU 02/03/22 STATE OF UTAH

Ann N. Tieu

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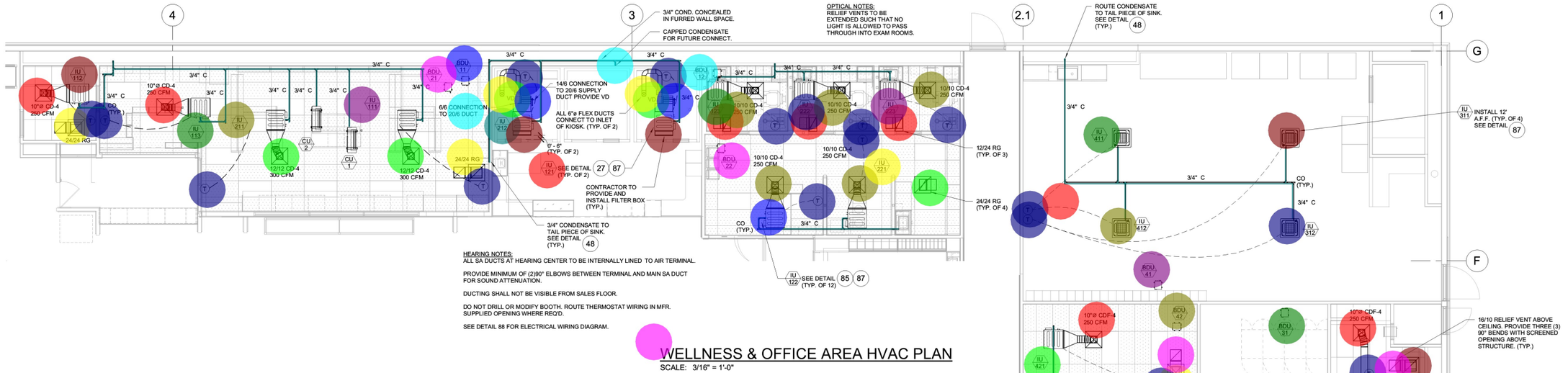
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ENLARGED MECHANICAL PLAN

MR-2.1

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HEARING NOTES:
ALL SA DUCTS AT HEARING CENTER TO BE INTERNALLY LINED TO AIR TERMINAL.

PROVIDE MINIMUM OF (2)90° ELBOWS BETWEEN TERMINAL AND MAIN SA DUCT FOR SOUND ATTENUATION.

DUCTING SHALL NOT BE VISIBLE FROM SALES FLOOR.

DO NOT DRILL OR MODIFY BOOTH. ROUTE THERMOSTAT WIRING IN MFR. SUPPLIED OPENING WHERE REQ'D.

SEE DETAIL 88 FOR ELECTRICAL WIRING DIAGRAM.

WELLNESS & OFFICE AREA HVAC PLAN

SCALE: 3/16" = 1'-0"

MR-2.1 Enlarged Mechnical Plan	1.0
Wellness & Office Area HVAC Plan	1.0
Mode Control Unit (BDU-11) Manufacturer: LG #PMBD363D Service: Pharmacy	1.0
Mode Control Unit (BDU-12) Manufacturer: LG #PMBD3630 Service: Optical	1.0
Mode Control Unit (BDU-21) Manufacturer: LG #PMBD3630 Service: Pharmacy/Hearing	1.0
Mode Control Unit (BDU-22) Manufacturer: LG #PMBD3630 Service: Optical	1.0
Mode Control Unit (BDU-31) Manufacturer: LG #PMBD3630 Service: Employee Lounge Office	1.0
Mode Control Unit (BDU-41) Manufacturer: LG #PMBD3620 Service: Employee Lounge	1.0
Mode Control Unit (BDU-42) Manufacturer: LG #PMBD3630 Service: Office	1.0
Air Conditioner (IU-111) Manufacturer: LG #LDN127HV4 Service: Pharmacy	1.0
Air Conditioner (IU-112) Manufacturer: LG #LDN097HV4 Service: Pharmacy	1.0
Air Conditioner (IU-113) Manufacturer: LG #LDN097HV4 Service: Pharmacy	1.0
Air Conditioner (IU-121) Manufacturer: LG #LDN097HV4 Service: Hearing	1.0
Air Conditioner (IU-122) Manufacturer: LG #LDN097HV4 Service: Optical	1.0
Air Conditioner (IU-123) Manufacturer: LG #LDN097HV4 Service: Optical	1.0
Air Conditioner (IU-211) Manufacturer: LG #LDN127HV4 Service: Pharmacy	1.0
Air Conditioner (IU-212) Manufacturer: LG #LDN097HV4 Service: Hearing	1.0
Air Conditioner (IU-221) Manufacturer: LG #LDN097HV4 Service: Optical	1.0
Air Conditioner (IU-222) Manufacturer: LG #LDN097HV4 Service: Optical	1.0
Air Conditioner (IU-223) Manufacturer: LG #LDN097HV4 Service: Optical	1.0
Air Conditioner (IU-311) Manufacturer: LG #LCN188HV4 Service: Employee Lounge	1.0
Air Conditioner (IU-312) Manufacturer: LG #LCN188HV4 Service: Employee Lounge	1.0
Air Conditioner (IU-313) Manufacturer: LG #LDN097HV4 Service: Office	1.0
Air Conditioner (IU-411) Manufacturer: LG #LCN188HV4 Service: Employee Lounge	1.0
Air Conditioner (IU-412) Manufacturer: LG #LCN188HV4 Service: Employee Lounge	1.0
Air Conditioner (IU-411) Manufacturer: LG #LDN097HV4 Service: Office	1.0
Air Conditioner (IU-422) Manufacturer: LG #LDN097HV4 Service: Office	1.0
Air Conditioner (IU-423) Manufacturer: LG #LDN097HV4 Service: Vault	1.0
10" Dia Ceiling Diffuser-4 Manufacturer: Tuttle & Bailey Model: SQD	2.0
12/12 Ceiling Diffuser-4 Manufacturer: Tuttle & Bailey Model: SQD	2.0
24/24 Return Grille Manufacturer: Tuttle & Bailey Model: PR	3.0
6/6 Connection to 20/6 Duct	1.0
Thermostat	17.0
Volume Damper	2.0
6" Dia Flex Ducts Connect to Inlet of KIOSK	2.0
14/6 Connection To 20/6 Supply Duct Provide VD	2.0
Contractor to Provide and Install Filter Box	2.0
10/10 Ceiling Diffuser-4 Manufacturer: Tuttle & Bailey Model: SQD	5.0
12/24 Return Grille Manufacturer: Tuttle & Bailey Model: PR	4.0
24/24 Return Grille with Fire Damper Manufacturer: Tuttle & Bailey Model: PR	1.0
24/24 Return Grille Manufacturer: Tuttle & Bailey Model: PR	1.0
16/10 Relief Vent above Ceiling. Provide Three 90 Degree Bends With Screened Opening	2.0
Capped Condensate for Future Connect	1.0
10" Dia Ceiling Diffuser With Fire Damper-4 250 CFM	4.0
3/4" Condensate Drain	345.8 FT

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MR-2.1

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