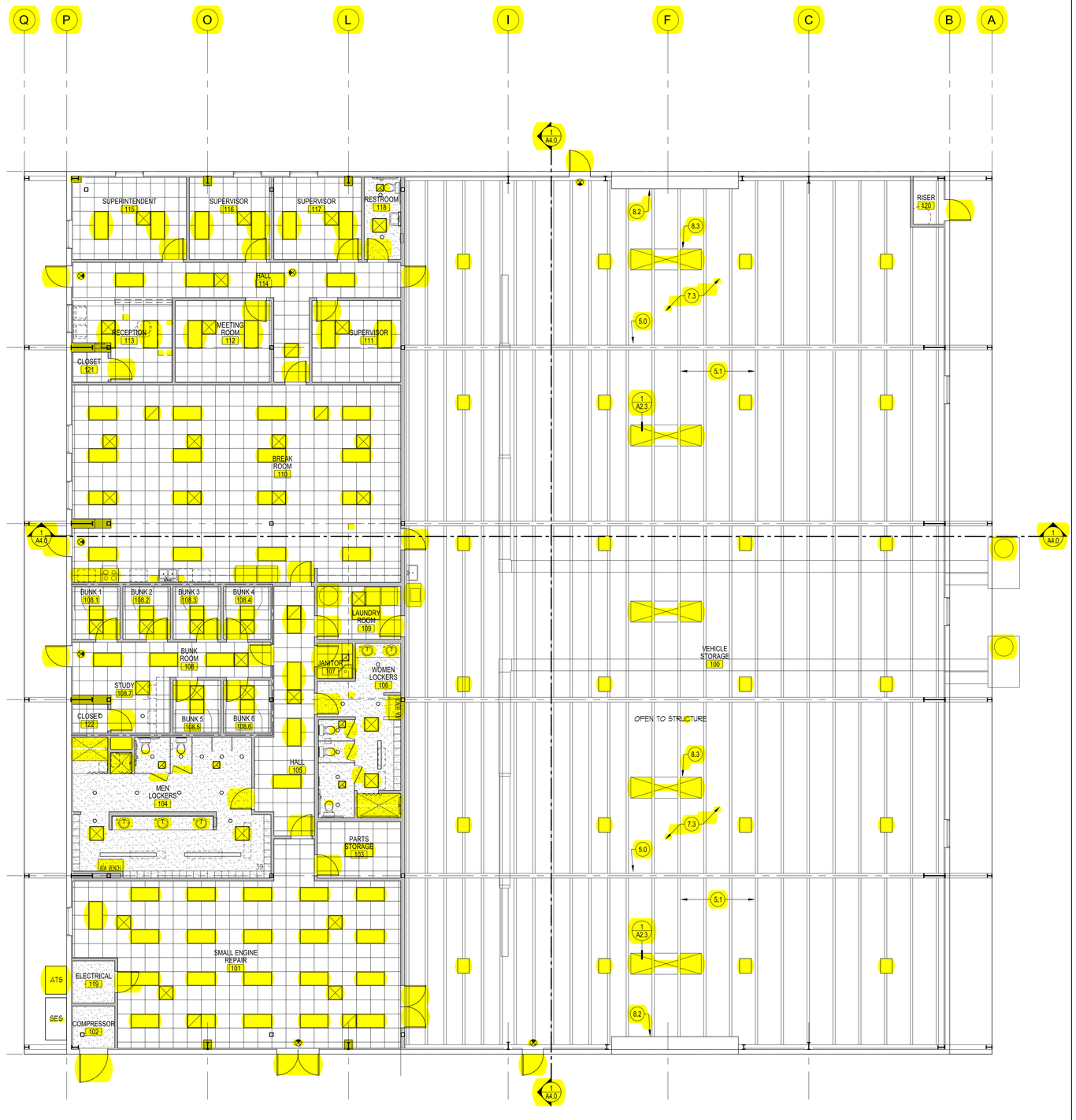
1 MEZZANINE REFLECTED CEILING PLAN

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

NORTH



2 GROUND FLOOR REFLECTED CEILING PLAN

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

NORTH

KEYNOTES

GENERAL
1.0 LINE OF ROOF ABOVE
1.1 PROVIDE AND INSTALL KNOX BOX

SITE
2.0 NOT USED

CONCRETE
3.0 CONCRETE FOOTINGS, SEE STRUCTURAL
3.1 REINFORCED CONCRETE FLOOR SLAB, SEE STRUCTURAL
3.2 4" DEEP CONCRETE AND METAL DECK MEZZ FLOOR SYSTEM

MASONRY
4.0 8x8x16 CMU TRASH ENCLOSURE, SEE XX

METALS
5.0 PEMB STEEL BEAM / COLUMN, SEE PEMB PLANS
5.1 10" PEMB PURLIN
5.2 8" PEMB GIRT / WALL
5.3 SIDE VERANDA , SEE PEMB PLANS
5.4 STEEL PAN AND CONCRETE STAIR SYSTEM
5.5 STEEL RAILINGS, SEE XX
5.6 MEZZANINE STEEL FLOOR JOISTS, COLUMN OR BEAM, SEE STRUCTURAL

WOOD
6.0 COUNTERTOPS / CABINETS, SEE XX

THERMAL / MOISTURE PROTECTION
7.0 METAL PANEL ROOF SYSTEM
7.1 PBR METAL SIDING
7.2 R-25 BATT INSUL BETWEEN GIRTS WITH VINYL SHEET COVER
7.3 R-19 + R11 BATT INSUL SYS AT PURLINS / ROOF AND VINYL SHEET COVER
7.4 METAL GUTTER AND DOWNSPOUTS

DOORS AND WINDOWS
8.0 HOLLOW METAL DOOR IN HM FRAME
8.1 WINDOW, SEE XX
8.2 MOTORIZED OVERHEAD COILING DOOR
8.3 SKYLIGHT, SEE XX

FINISHES
9.0 2x2 SUSPENDED GRID CEILING SYSTEM
9.1 SUSPENDED GYP BD CEILING
9.2 6" FULL HT METAL STUD WALL, SEE XXX
9.3 3 5/8" METAL STUD WALL TO 4" ABOVE CEILING, SEE XX
9.4 GYP BD FURRING AT GIRTS, SEE XX
9.5 5/8" GYP BD FINISH
9.6 PLYWOOD WALL FINISH, SEE XX

SPECIALTIES
10.0 12" W x 60" H METAL LOCKERS

PLUMBING
22.0 PLUMBING FIXTURE, SEE PLUMBING
22.1 TRENCH DRAIN, SEE PLUMBING

MECHANICAL
23.0 CONDENSING UNIT, SEE MECHANICAL
23.1 DUCT OR DIFFUSER, SEE MECHANICAL
23.2 AIR HANDLER ABOVE CEILING, SEE MECHANICAL

ELECTRICAL
26.0 LIGHT FIXTURE
26.1 ELECTRICAL PANEL

CEILING LEGEND

- 2' x 2' SUSPENDED TEE GRID CEILING SYSTEM
- 5/8" TYPE "X" GYP. BOARD CEILING
- EXTERIOR WP LED LIGHT, WALL MOUNTED
- HIGH BAY FIXTURE
- RECESSED DOWN LIGHT
- 2' x 4' LAY IN LIGHT FIXTURE
- SUPPLY AIR DIFFUSER
- RETURN AIR DIFFUSER
- EXHAUST FAN
- ILLUMINATED EXIT SIGN

90% PROGRESS SET 6-28-24

PRELIMINARY NOT FOR CONSTRUCTION

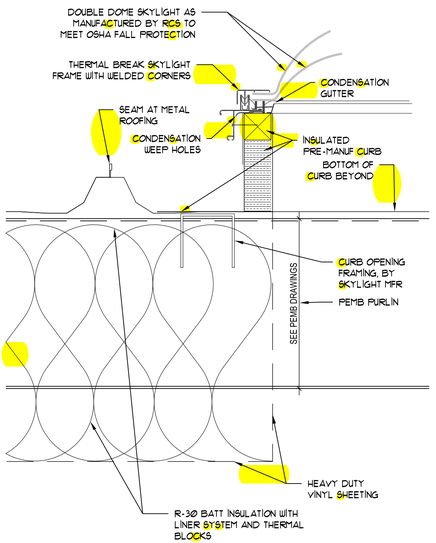
STROH ARCHITECTURE, INC.
1577 Plaza West Drive, Suite B
Prescott, AZ 86303
(928) 771-0548

NEW DESIGN-BUILD PEMB FOR CITY OF PRESCOTT
STREETS DIVISION
ADMINISTRATION BUILDING
SUNDOG ROAD, PRESCOTT, ARIZONA

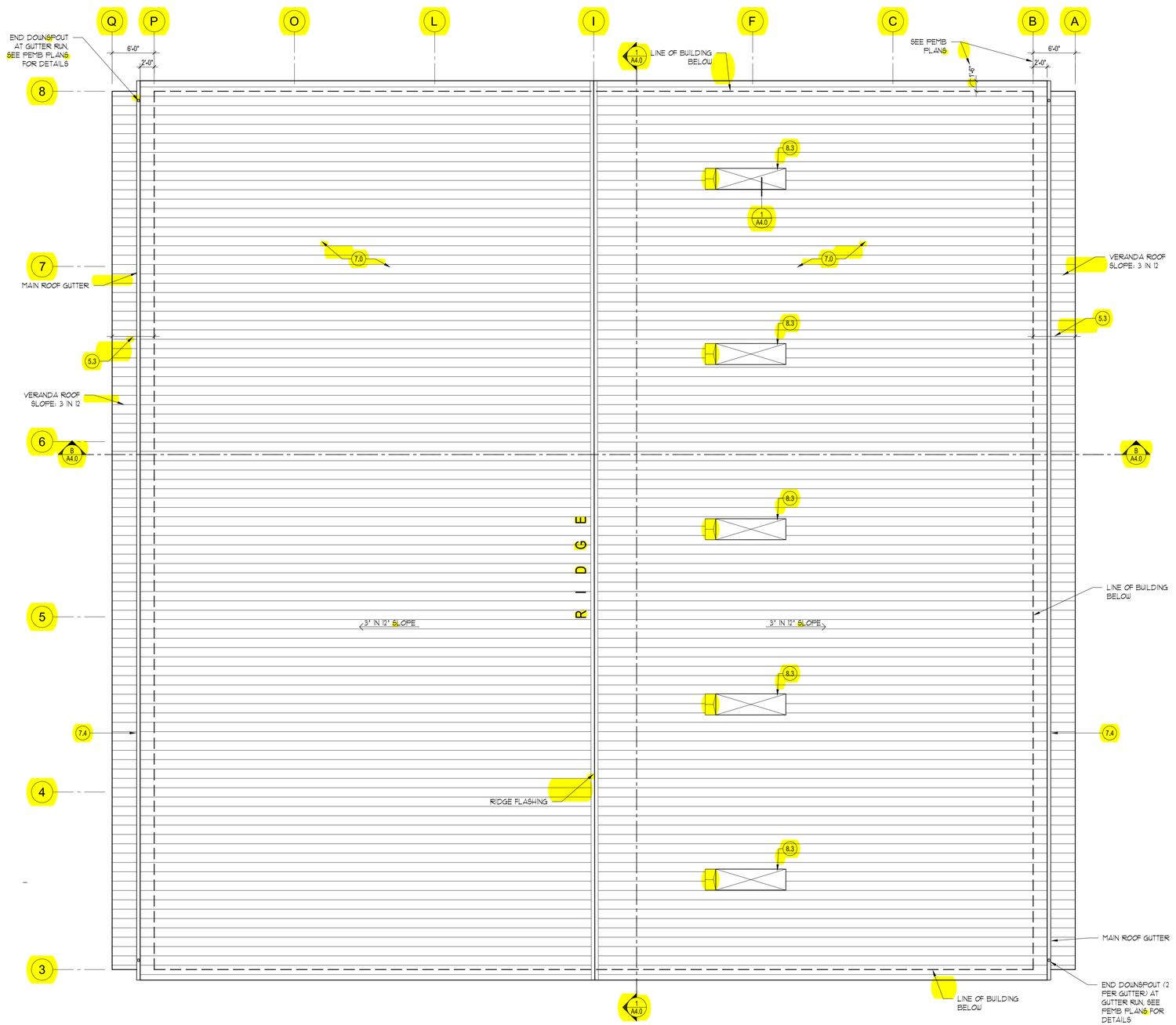
REVISION

SHEET
REFLECTED CEILING PLAN
A2.2

DRAWN BY: XX
CHECKED BY: WXW/DDS
DATE: APRIL 3, 2024
JOB NO.: 23015



1 SKYLIGHT CURB
SCALE: 3" = 1'-0"



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

NORTH

KEYNOTES

GENERAL
1.0 LINE OF ROOF ABOVE
1.1 PROVIDE AND INSTALL KNOX BOX

SITE
2.0 NOT USED

CONCRETE
3.0 CONCRETE FOOTINGS, SEE STRUCTURAL
3.1 REINFORCED CONCRETE FLOOR SLAB, SEE STRUCTURAL
3.2 4" DEEP CONCRETE AND METAL DECK MEZZ FLOOR SYSTEM

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5.4 STEEL PAN AND CONCRETE STAIR SYSTEM
5.5 STEEL RAILINGS, SEE XX
5.6 MEZZANINE STEEL FLOOR JOISTS, COLUMN OR BEAM, SEE STRUCTURAL

WOOD
6.0 COUNTERTOPS / CABINETS, SEE XX

THERMAL / MOISTURE PROTECTION
7.0 METAL PANEL ROOF SYSTEM
7.1 PBR METAL SIDING
7.2 R-25 BATT INSUL BETWEEN GIRTS WITH VINYL SHEET COVER
7.3 R-19 + R11 BATT INSUL SYS AT PURLINS / ROOF AND VINYL SHEET COVER
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DOORS AND WINDOWS
8.0 HOLLOW METAL DOOR IN HM FRAME
8.1 WINDOW, SEE XX
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8.3 SKYLIGHT, SEE XX

FINISHES
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9.5 5/8" GYP BD FINISH
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SPECIALTIES
10.0 12" W x 60" H METAL LOCKERS

PLUMBING
22.0 PLUMBING FIXTURE, SEE PLUMBING
22.1 TRENCH DRAIN, SEE PLUMBING

MECHANICAL
23.0 CONDENSING UNIT, SEE MECHANICAL
23.1 DUCT OR DIFFUSER, SEE MECHANICAL
23.2 AIR HANDLER ABOVE CEILING, SEE MECHANICAL

ELECTRICAL
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90% PROGRESS SET 6-28-24

REVISION

SHEET
ROOF PLAN
A2.3

DRAWN BY: XX
CHECKED BY: WXW/DDS
DATE: APRIL 3, 2024
JOB NO.: 23015

MECHANICAL ABBREVIATIONS

ABBREVIATION	DESCRIPTION
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
APD	AIR PRESSURE DROP
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
BHP	BRAKE HORSE POWER
BTU/H	BRITISH THERMAL UNIT PER HOUR
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
COP	COEFFICIENT OF PERFORMANCE
(D)	DEMOLISHED
DB	DRY BULB TEMPERATURE
DIA	DIAMETER
DL	DOOR LOUVER
DN	DOWN
(E)	EXISTING
EAT	ENTERING AIR TEMPERATURE
EFF	EFFICIENCY
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
°F	DEGREES FAHRENHEIT
FA	FROM ABOVE
FB	FROM BELOW
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
GA	GAGE OR GAUGE
GAL	GALLONS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HD	HEAD PRESSURE
HP	HORSEPOWER
HSPF	HEATING SEASONAL PERFORMANCE FACTOR
IBC	INTERNATIONAL BUILDING CODE
IMC	INTERNATIONAL MECHANICAL CODE
IPC	INTERNATIONAL PLUMBING CODE
IE	INVERT ELEVATION BELOW FINISHED FLOOR
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	ONE THOUSAND BTUH
MCA	MINIMUM CIRCUIT AMPS
MIN	MINIMUM
MOCP	MAXIMUM OVER CURRENT PROTECTION
N/A	NOT APPLICABLE
N/C	NORMALLY CLOSED
N/O	NORMALLY OPEN
NEC	NATIONAL ELECTRIC CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIS	NOT IN SCOPE
NTS	NOT TO SCALE
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
PD	PRESSURE DROP
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
RH	RELATIVE HUMIDITY
RPM	REVOLUTIONS PER MINUTE
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SP	STATIC PRESSURE
SS	STAINLESS STEEL
TDH	TOTAL DYNAMIC HEAD
TFA	TO FLOOR ABOVE
TFB	TO FLOOR BELOW
TYP	TYPICAL
UBC	UNIFORM BUILDING CODE
UL	UNDERWRITERS LABORATORIES, INC.
UMC	UNIFORM MECHANICAL CODE
UPC	UNIFORM PLUMBING CODE
VFD	VARIABLE FREQUENCY DRIVE
WB	WET BULB TEMPERATURE
WC	WATER COLUMN
WG	WATER GAUGE
WPD	WATER PRESSURE DROP

MECHANICAL SYMBOLS AND LEGEND - AIR SIDE

SYMBOL	ABBREVIATION	DESCRIPTION
		SUPPLY AIR DIFFUSER
		RETURN AIR GRILLE
		EXHAUST AIR GRILLE
		ROUND FLEX DUCT
	FD	FIRE DAMPER
	SD	SMOKE DAMPER
	FSD	COMBINATION FIRE/SMOKE DAMPER
		RECTANGULAR DUCT SIZE, TOP LENGTH BY SIDE LENGTH
	MVD	MANUAL VOLUME/BALANCING DAMPER
		DUCT WITH INTERNAL INSULATION
		SQUARE TO ROUND DUCT TRANSITION
		DUCT SIZE TRANSITION
		MITERED ELBOW WITH TURNING VANES
	SA	SUPPLY AIR DUCT DOWN
	SA	SUPPLY AIR DUCT UP
	RA	RETURN AIR DUCT DOWN
	RA	RETURN AIR DUCT UP
	EA	EXHAUST AIR DUCT DOWN
	EA	EXHAUST AIR DUCT UP
	MD	MOTORIZED DAMPER
	OPD	OPPOSED BLADE DAMPER
—RS/RL—	RS/RL	REFRIGERANT SUCTION AND LIQUID LINE SET/PIPING

MECHANICAL ANNOTATIONS

SYMBOL	ABBREVIATION	DESCRIPTION
RTU #		MECHANICAL EQUIPMENT - (SEE MECHANICAL SCHEDULE)
1 M6.1		DETAIL REFERENCE CALLOUT, DETAIL NUMBER AND SHEET
1 M3.1		SECTION VIEW CALLOUT, DETAIL NUMBER AND SHEET
	POC	POINT OF CONNECTION - NEW ITEMS TO EXISTING ITEMS
L-1		PLUMBING FIXTURE SCHEDULE - (SEE SCHEDULE)
?		SHEET NOTES
	AP	ACCESS PANEL
		DIFFUSER / GRILLE / REGISTER TAG EXAMPLE: CD-1 / 12"Ø / 500 DESCRIPTION: (TYPE) / (NECK SIZE) / (CFM)
T	TSTAT	THERMOSTAT
RTS		ROOM TEMPERATURE SENSOR
CO		CARBON MONOXIDE SENSOR
CO2		CARBON DIOXIDE SENSOR
NO2		NITROGEN DIOXIDE SENSOR
BD		BACKDRAFT DAMPER
SD		DUCT MOUNTED SMOKE DETECTOR
TCP		TEMPERATURE CONTROL PANEL
TS		TEMPERATURE SENSOR
DP		DIFFERENTIAL PRESSURE SENSOR
ES		EMERGENCY SHUTDOWN SWITCH

MECHANICAL GENERAL NOTES:

1. (FOR RENOVATIONS OR REMODELS) THE INFORMATION INDICATED WITHIN THE DRAWINGS AS EXISTING WAS TAKEN FROM CLIENT PROVIDED INFORMATION SUCH AS AS-BUILT DRAWINGS, SITE PHOTOS, OR OBSERVED BY THE DESIGN TEAM DURING SITE VISITS. THE ACCURACY OF THE DRAWING IS NOT GUARANTEED BUT ONLY FOR INDICATING, TO THE BEST OF OUR KNOWLEDGE, THE EXISTING SYSTEMS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND FIELD VERIFY SYSTEMS SHOWN ON THE DRAWINGS. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE ADJUSTMENTS TO THE DRAWING INFORMATION AS REQUIRED TO MATCH EXISTING FIELD CONDITIONS.
2. (FOR RENOVATIONS OR REMODELS) THE CONTRACTOR SHALL INSTALL NEW SYSTEMS AROUND EXISTING OBSTACLES SUCH AS BUT NOT LIMITED TO DOMESTIC WATER PIPING, WASTE AND VENT PIPING, FIRE SPRINKLER PIPING, GAS PIPING, DUCTING, AND EXISTING HVAC EQUIPMENT. RELOCATION OF EXISTING SYSTEMS MAY BE REQUIRED IF IN CONFLICT WITH NEW SYSTEMS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ANY RELOCATIONS WITH THE APPROPRIATE SUBCONTRACTOR.
3. MECHANICAL WORK SHALL CONFORM WITH THE LATEST ADOPTED LOCAL CODES, ORDINANCES, AND DESIGN REQUIREMENTS UNLESS OTHERWISE APPROVED BY THE AUTHORITY HAVING JURISDICTION (AHJ).
4. CONTRACTOR SHALL COORDINATE WITH STRUCTURAL REQUIREMENTS BEFORE DRILLING OR CUTTING ANY CMU WALLS, CEILING JOISTS OR STRUCTURAL ELEMENTS.
5. CONTRACTOR TO PROVIDE ALL REQUIRED LABOR, MATERIALS, EQUIPMENT, AND INSURANCES TO COMPLETE THE DESIGN PER THE INTENT OF THE DRAWINGS AND SPECIFICATIONS TO THE SATISFACTION OF THE ENGINEER/ARCHITECT.
6. CONTRACTOR TO PROVIDE ALL REQUIRED PERMITS AND FEES TO COMPLETE THE PROJECT.
7. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH DRAWINGS PROVIDED BY OTHER DISCIPLINES. CONSTRUCTION CONFLICTS ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER/ARCHITECT.
8. DUE TO THE SMALL SCALE OF THE DRAWINGS, IT IS NOT FEASIBLE TO SHOW ALL REQUIRED OFFSETS, ELEVATIONS, ETC., IT IS THEREFORE THE CONTRACTORS RESPONSIBILITY TO VERIFY THE REQUIRED ROUTING, ELEVATION, AND PLACEMENT OF EQUIPMENT AND PROVIDE REQUIRED OFFSETS INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS AND THE SPECIFICATIONS TO MEET THE INTENT OF THE DESIGN. ALL DIMENSIONS AND MEASUREMENTS SHALL BE VERIFIED ONSITE BEFORE FABRICATION AND/OR INSTALLATION OF THE EQUIPMENT.
9. ALL INFORMATION SHOWN ON SCHEDULES ARE BASED ON AVAILABLE PRODUCT INFORMATION AT THE TIME OF DESIGN.
10. THE CONTRACTOR SHALL KEEP INSTALLATION INSTRUCTIONS FOR ALL LISTED EQUIPMENT ON THIS PROJECT AT THE JOBSITE AND SHALL HAVE THEM ACCESSIBLE FOR THE FIELD INSPECTOR UPON REQUEST.
11. PROVIDED DRAWINGS BY THE ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO PROVIDE AN INSTALLATION SUITABLE IN DIMENSION, CONSTRUCTION, FUNCTION AND FINISH FOR THE PURPOSE INTENDED.
12. ANY DISCREPANCIES DURING BID SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER/ARCHITECT AND RESOLVED PRIOR TO FINALIZATION OF THE CONSTRUCTION CONTRACT.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL TRADE.
14. EXACT LOCATION OF ACCESS PANELS SHALL BE COORDINATED WITH FINAL PLACEMENT OF ALL VALVES, DAMPERS, AND ANY OTHER COMPONENT IDENTIFIED ON THE DRAWINGS.
15. FINISH AND COLOR OF EXTERNAL SURFACES FOR EXPOSED UNITS, DUCTWORK, OR PIPING SHALL BE APPROVED BY THE ARCHITECT.
16. CONTRACTOR SHALL PERFORM TESTING AND ADJUSTING AS REQUIRED FOR ALL EQUIPMENT AND/OR SYSTEMS WITHIN THIS SCOPE OF WORK PER THE SPECIFICATIONS.

APPLICABLE CODES:

2018 INTERNATIONAL BUILDING CODE (IBC)
2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
2018 INTERNATIONAL PLUMBING CODE (IPC)
2017 NATIONAL ELECTRIC CODE (NEC)
2018 INTERNATIONAL FIRE CODE (IFC)
2018 INTERNATIONAL MECHANICAL CODE (IMC)
2018 INTERNATIONAL FUEL GAS CODE (IFGC)

DESIGN CONDITIONS:

AMBIENT DESIGN TEMPERATURES
WINTER: 18.2°F db
SUMMER: 94.7°F db / 60.3°F wb

THERMOSTAT SETPIONTS:
OCCUPIED: HEATING: 75°F
COOLING: 70°F

UNOCCUPIED: HEATING: 80°F
COOLING: 50°F

MECHANICAL SHEET LIST

SHEET NUMBER	SHEET NAME
M0.1	MECHANICAL NOTES, SYMBOLS, AND LEGENDS
M0.2	MECHANICAL SCHEDULES (1 OF 2)
M0.3	MECHANICAL SCHEDULES (2 OF 2)
M2.1	MECHANICAL FLOOR PLAN - GROUND FLOOR
M2.2	MECHANICAL FLOOR PLAN - MEZZANINE
M2.3	MECHANICAL PIPING PLAN - GROUND FLOOR
M2.5	MECHANICAL DETECTION PLAN
M6.1	MECHANICAL DETAILS

Kimley»Horn
2022, Ⓒ
7900 RANCHARRAH PARKWAY
SUITE 100
RENO, NV 89511
PHONE: (775) 636-7835

SEALS

PRELIMINARY DRAWINGS
DO NOT USE FOR CONSTRUCTION

CITY OF PRESCOTT

STREETS DIVISION ADMINISTRATION BUILDING

SUNDOG ROAD, PRESCOTT, AZ

CLIENT PROJECT INFO

NO:	DATE	DRAWING ISSUE DESCRIPTION

DESIGNED BY: Designer
DRAWN BY: Author
CHECKED BY: Checker
SCALE: As indicated
DATE: 03/21/2024
PROJECT NO: 091345049
FILENAME:

MECHANICAL NOTES, SYMBOLS, AND LEGENDS

M0.1

SPLIT SYSTEM - INDOOR FAN COIL UNIT

NOTES:
1. PROVIDE WITH MANUFACTURER'S STANDARD REMOTE CONTROLLER (PREMTB100).
2. PROVIDE WITH HIGH EFFICIENCY FILTER BOX (ZFBXM101A).
3.UNIT PROVIDED WITH FACTORY INSTALLED CONDENSATE PUMP.
4. PROVIDE WITH AUXILIARY HEATING KIT (PRAH1).

MARK	UNIT TYPE	LOCATION	SUPPLY FAN AIRFLOW (CFM)	MIN OSA	SUPPLY FAN ESP (IN W.C)	COOLING COIL TOTAL CAP (MBH)	COOLING COIL EAT DB (°F)	COOLING COIL EAT WB (°F)	COOLING COIL LAT DB CLG	COOLING COIL LAT WB CLG	HEATING COIL TOTAL CAP (MBH)	HEATING COIL EAT (°F)	HEATING COIL LAT HTG	ELECTRICAL VOLTAGE	ELECTRICAL PHASE	ELECTRICAL HZ	ELECTRICAL AMPERAGE	ASSOCIATED UNIT	WEIGHT	MANUFACTURER	MODEL	NOTES
FCU-1	DUCTED	HALL 114	800	150 CFM	0.59	24.2	80.5	62.4	55.0 °F	54.0 °F	27.3	63.9	83.8 °F	208 V	1	60 Hz	2.00 A	CU-1	70 lb	LG	ARNU243M1A4	1,2,3
FCU-2	DUCTED	BREAK ROOM 110	800	225 CFM	0.59	24.2	86.7	66.1	54.2 °F	51.7 °F	27.3	57.1	76.9 °F	208 V	1	60 Hz	2.00 A	CU-1	70 lb	LG	ARNU243M1A4	1,2,3
FCU-3	DUCTED	BREAK ROOM 110	800	225 CFM	0.59	24.2	86.7	66.1	54.2 °F	51.7 °F	27.3	57.1	76.9 °F	208 V	1	60 Hz	2.00 A	CU-1	70 lb	LG	ARNU243M1A4	1,2,3
FCU-4	DUCTED	HALL 105	400	30 CFM	0.59	12.3	80.5	62.4	55.0 °F	54.0 °F	13.6	60.1	83.8 °F	208 V	1	60 Hz	1.60 A	CU-1	56 lb	LG	ARNU123M1A4	1,2,3
FCU-5	DUCTED	HALL 105	400	400 CFM	0.59	12.3	104.0	65.0	55.0 °F	54.0 °F	13.6	55.0	83.8 °F	208 V	1	60 Hz	1.60 A	CU-1	56 lb	LG	ARNU123M1A4	1,2,3
FCU-6	DUCTED	SMALL ENGINE REPAIR 101	400	150 CFM	0.47	12.3	91.4	66.2	55.0 °F	50.4 °F	13.6	51.9	85.3 °F	208 V	1	60 Hz	1.60 A	CU-1	56 lb	LG	ARNU123M1A4	1,2,3
FCU-7	DUCTED	SMALL ENGINE REPAIR 101	400	150 CFM	0.47	12.3	91.4	66.2	55.0 °F	50.4 °F	13.6	51.9	85.3 °F	208 V	1	60 Hz	1.60 A	CU-1	56 lb	LG	ARNU123M1A4	1,2,3,4
FCU-8	CASSETTE	BUNK 1 108.1	200	30 CFM	0.00	6.1	63.6	59.4	55.0 °F	51.0 °F	5.5	60.0	79.0 °F	208 V	1	60 Hz	0.25 A	CU-1	7 lb	LG	ARNU053TFD4	1,2,3
FCU-9	CASSETTE	BUNK 2 108.2	200	30 CFM	0.00	6.1	63.6	59.4	55.0 °F	51.0 °F	5.5	60.0	79.0 °F	208 V	1	60 Hz	0.25 A	CU-1	7 lb	LG	ARNU053TFD4	1,2,3
FCU-10	CASSETTE	BUNK 3 108.3	200	30 CFM	0.00	6.1	63.6	59.4	55.0 °F	51.0 °F	5.5	60.0	79.0 °F	208 V	1	60 Hz	0.25 A	CU-1	7 lb	LG	ARNU053TFD4	1,2,3
FCU-11	CASSETTE	BUNK 4 108.4	200	30 CFM	0.00	6.1	63.6	59.4	55.0 °F	51.0 °F	5.5	60.0	79.0 °F	208 V	1	60 Hz	0.25 A	CU-1	7 lb	LG	ARNU053TFD4	1,2,3
FCU-12	CASSETTE	BUNK 5 108.5	200	30 CFM	0.00	6.1	63.6	59.4	55.0 °F	51.0 °F	5.5	60.0	79.0 °F	208 V	1	60 Hz	0.25 A	CU-1	7 lb	LG	ARNU053TFD4	1,2,3
FCU-13	CASSETTE	BUNK 6 108.6	200	30 CFM	0.00	6.1	63.6	59.4	55.0 °F	51.0 °F	5.5	60.0	79.0 °F	208 V	1	60 Hz	0.25 A	CU-1	7 lb	LG	ARNU053TFD4	1,2,3
FCU-14	DUCTED	STREETS STORAGE 201	400	150 CFM	0.59	28.0	66.7	59.5	55.0 °F	51.3 °F	31.5	47.9	74.2 °F	208 V	1	60 Hz	1.60 A	CU-1	56 lb	LG	ARNU123M1A4	1,2,3
FCU-15	DUCTED	STREETS STORAGE 201	400	150 CFM	0.59	28.0	66.7	59.5	55.0 °F	51.3 °F	31.5	47.9	74.2 °F	208 V	1	60 Hz	1.60 A	CU-1	56 lb	LG	ARNU123M1A4	1,2,3
FCU-16	DUCTED	STREETS STORAGE 201	800	150 CFM	0.59	28.0	66.7	59.5	55.0 °F	51.3 °F	31.5	47.9	74.2 °F	208 V	1	60 Hz	2.00 A	CU-1	70 lb	LG	ARNU243M1A4	1,2,3

SPLIT SYSTEM - OUTDOOR CONDENSING UNIT SCHEDULE

NOTES:
1. MANUFACTURER PROVIDES THIS UNIT AS A COMBINATION OF MODELS ARUM096BTE5 AND ARUM168BTE5
2. PROVIDE WITH THREE HEAT RECOVERY UNITS MODEL # PRHR063A (ELECTRICAL INFORMATION: 208V, 1 PHASE, 60 HZ, 0.27 MCA).

MARK	COOLING TOTAL CAP (MBH)	COOLING SUMMER AMBIENT DB (°F)	COOLING SUMMER AMBIENT WB (°F)	COOLING EER	COOLING REFRIGERANT TYPE	HEATING TOTAL CAP (MBH)	HEATING WINTER AMBIENT DB (°F)	ELECTRICAL VOLTAGE	ELECTRICAL PHASE	ELECTRICAL HZ	ELECTRICAL MCA	ELECTRICAL MOCP	WEIGHT	MANUFACTURER	MODEL	NOTES
CU-1	96.0	94.7	60.3	9.7	R410a	108.0	18.2	208 V	3	60 Hz	29 A	40 A	510 lb	LG	ARUM264BTE5	1,2

AIR HANDLING UNIT

NOTES:
1. PROVIDE SINGLE POINT POWER CONNECTION.
2. PROVIDE 120V, 20 AMP DUPLEX CONVENIENCE RECEPTABLE MOUNTED TO UNIT. COORDINATE WITH ELECTRICAL CONTRACTOR.
3. SELECT EQUIPMENT FOR ELEVATION OF 5,300 FEET ABOVE SEA LEVEL.
4. TOTAL HEATING CAPACITY INCLUDES THE HEAT PUMP HEATING COIL CAPACITY AT THE AMBIENT DRY BULB TEMPERATURE LISTED.
5. PROVIDE WITH MANUFACTURER'S 7 DAY PROGRAMMABLE THERMOSTAT.
6. PROVIDE WITH 2" PLEATED MERV 8 FILTERS.
7. PROVIDE WITH SUPPLY AIR SMOKE DAMPER.
8. PROVIDE ECONOMIZER WITH BAROMETRIC RELIEF.

MARK	UNIT TYPE	MIN OSA (CFM)	SUPPLY FAN AIRFLOW (CFM)	SUPPLY FAN ESP (IN W.C.)	COOLING COIL TOTAL CAP (MBH)	COOLING COIL EAT DB (°F)	COOLING COIL EAT WB (°F)	COOLING COIL LAT DB (°F)	COOLING COIL LAT WB (°F)	COOLING COIL AMBIENT CONDITIONS DB (°F)	COOLING COIL AMBIENT CONDITIONS WB (°F)	COOLING COIL EER	HEATING COIL (HEAT PUMP) TOTAL CAP. (MBH)	HEATING COIL (HEAT PUMP) EAT (°F)	HEATING COIL (HEAT PUMP) LAT (°F)	HEATING COIL (HEAT PUMP) AMBIENT DB (°F)	ELECTRICAL VOLTAGE	ELECTRICAL PHASE	ELECTRICAL HZ	ELECTRICAL MCA	ELECTRICAL MOCP	OPERATING WEIGHT (LBS)	MANUFACTURER	MODEL	NOTES
AHU-1	PACKAGED	0	3000	1.03	73.0	78.0	60.0	53.5	51.0	95.0	60.0	11.2	61.5	50.0	72.4	4.0	208 V	3	60 Hz	60 A	60 A	925	TRANE	TSJ090A3S0G	1-8
AHU-2	PACKAGED	0	3000	1.03	73.0	78.0	60.0	53.5	51.0	95.0	60.0	11.2	61.5	50.0	72.4	4.0	208 V	3	60 Hz	60 A	60 A	925	TRANE	TSJ090A3S0G	1-8

LOUVER SCHEDULE

NOTES:
1. PROVIDE 3/4" MESH ALUMINUM BIRD SCREEN.
2. PROVIDE STANDARD MILL FINISH.
3. FRAME SHALL MATCH WALL CONSTRUCTION. COORDINATE WITH ARCHITECT.
4. PROVIDE WITH MANUFACTURER'S BACKDRAFT DAMPER.
5. PROVIDE WITH GREENHECK MODEL BR-42 BACKDRAFT DAMPER.

MARK	SERVICE	SIZE WIDTH	SIZE HEIGHT	AIRFLOW (CFM)	MIN. FREE AREA	MAX VELOCITY	MAX APD (IN W.C.)	MANUFACTURER	MODEL	NOTES
L-1	EMERGENCY INTAKE	3' - 6"	3' - 10"	3700	7.4 ft²	500 FPM	0.07	GREENHECK	ESD-435	1-3,5
L-2	GENERAL INTAKE	1' - 6"	1' - 2"	300	0.6 ft²	500 FPM	0.07	GREENHECK	ESD-435	1-4
L-3	INTAKE OR EXHAUST	0' - 8"	0' - 8"	120	0.5 ft²	500 FPM	0.20	GREENHECK	ESD-435	1-4

GRILLES, REGISTERS, & DIFFUSERS SCHEDULE

NOTES:
1. NECK SIZE SHOWN ON DRAWINGS. PROVIDE BRANCH DUCT TO MATCH NECK SIZE UNLESS OTHERWISE SHOWN ON DRAWINGS.
2. DOUBLE DEFLECTION BARS SHALL BE ADJUSTABLE.
3. FRAME TO MATCH CEILING/WALL CONSTRUCTION, COORDINATE WITH ARCHITECTURAL REFLECTED CEILING/WALL PLAN.
4. PROVIDE OPPOSED BLADE DAMPER ADJUSTABLE FRM FACE OF DEVICE.

MARK	MATERIAL	FACE TYPE	FACE SIZE	MARGIN	FINISH	MAX AIRFLOW	MAX APD (IN W.C.)	MAX NC	MANUFACTURER	MODEL	NOTES
CD-1	STEEL	LOUVERED	24"X24"	LAY-IN	WHITE	1000 CFM	0.10	30	TITUS	TMS	1,4
CD-2	STEEL	LOUVERED	12"X12"	LAY-IN	WHITE	244 CFM	0.10	30	TITUS	TMS	1,4
EG-1	STEEL	LOUVERED	12"X12"	LAY-IN	WHITE	244 CFM	0.10	30	TITUS	PAR	1,4
RG-1	STEEL	PERFORATED	24"X24"	LAY-IN	WHITE	1000 CFM	0.08	30	TITUS	PAR	1,4
RG-2	STEEL	LOUVERED	28"X28"	SURFACE	WHITE	3000 CFM	0.10	30	TITUS	350R	2,3
SG-1	ALUMINUM	DRUM	20"X10"	SURFACE	WHITE	1000 CFM	0.10	30	TITUS	DL-SV	2,3
SG-2	ALUMINUM	DRUM	10"X6"	SURFACE	WHITE	200 CFM	0.10	30	TITUS	DL-SV	2,3

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SEALS

PRELIMINARY DRAWINGS
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CITY OF PRESCOTT

STREETS DIVISION ADMINISTRATION BUILDING

SUNDOG ROAD, PRESCOTT, AZ

CLIENT PROJECT INFO

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DRAWN BY: Author
CHECKED BY: Checker
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FILENAME:

MECHANICAL SCHEDULES (1 OF 2)

M0.2

UNIT HEATER SCHEDULE (ELECTRIC)

NOTES:
1. MOUNT 10 FEET ABOVE FINISHED FLOOR WITHOUT OBSTRUCTING AIRFLOW.
2. PROVIDE WITH UNIT MOUNTED THERMOSTAT.
3. PROVIDE NECESSARY MOUNTING BRACKET AND ACCESSORIES FOR WALL MOUNTING.

MARK	LOCATION	AIRFLOW (CFM)	HEATING CAPACITY (KW)	ELECTRICAL					WEIGHT	MANUFACTURER	MODEL	NOTES
				MCA	MOCP	VOLTAGE	PHASE	HZ				
UH-1	FIRE RISER ROOM	300	6824.0	0 A	0 A	208 V	1	60	20 lb	REZNOR	EGW	1-3

EXHAUST FAN SCHEDULE

NOTES:
1. PROVIDE WITH 6" TO 4" ROUND REDUCES.
2. PROVIDE WALL CAL WITH INTEGRAL BACKDRAFT DAMPER.
3. FAN TO OPERATE OFF ROOMS LIGHT SWITCH, SEE ELECTRICAL DRAWINGS.
4. FAN SHALL BE OPERATED INTEGRATED TO GAS DETECTION SYSTEM TO ACTIVATE BASED ON CO AND NO2 DETECTION.
5. PROVIDE WITH BIDSCREEN OVER OPENING AND GRAVITY BACKDRAFT DAMPER.
6. FAN TO OPERATE CONTINUOUSLY, SEE ELECTRICAL FOR WALL SWITCH LOCATION.

MARK	MOUNTING	AIRFLOW (CFM)	ESP (IN W.C.)	ELECTRICAL				WEIGHT	MANUFACTURER	MODEL	NOTES
				VOLTAGE	PHASE	HZ	MOTOR HP				
EF-1	CELING	60	0.10	115 V	1	60	0.01	12 lb	GREENHECK	SP-A90	1,2,3
EF-2	CEILING	60	0.10	115 V	1	60	0.01	12 lb	GREENHECK	SP-A90	1,2,3
EF-3	CEILING	60	0.10	115 V	1	60	0.01	12 lb	GREENHECK	SP-A90	1,2,3
EF-4	INLINE	250	0.10	115 V	1	60	0.01	51 lb	GREENHECK	SQ-95-VG	1,2,3
EF-5	INLINE	150	0.10	115 V	1	60	0.01	51 lb	GREENHECK	SQ-95-VG	1,2,3
EF-6	CEILING	270	0.13	115 V	1	60	0.01	24 lb	GREENHECK	SP-A250-QD	6
EF-7	WALL	300	0.15	115 V	1	60	0.1	29 lb	GREENHECK	CUE-70-VG	5,6
EF-8	WALL	3700	0.13	115 V	1	60	0.33	174 lb	GREENHECK	CUBE-220-20	4,5
EF-9	WALL	3700	0.13	115 V	1	60	0.33	174 lb	GREENHECK	CUBE-220-20	4,5
EF-10	WALL	300	0.15	115 V	1	60	0.1	29 lb	GREENHECK	CUE-70-VG	5,6

AIR COMPRESSOR SCHEDULE

MARK	TANK SIZE (GAL)	TANK CONFIGURATION	ACFM @ 175 PSIG	RPM	VOLTAGE	PHASE	HZ	WEIGHT	MANUFACTURER	MODEL
AIR-1	120	VERTICAL	35 CFM	968	208 V	3	60 Hz	1000 lb	QUINCY	QT-10

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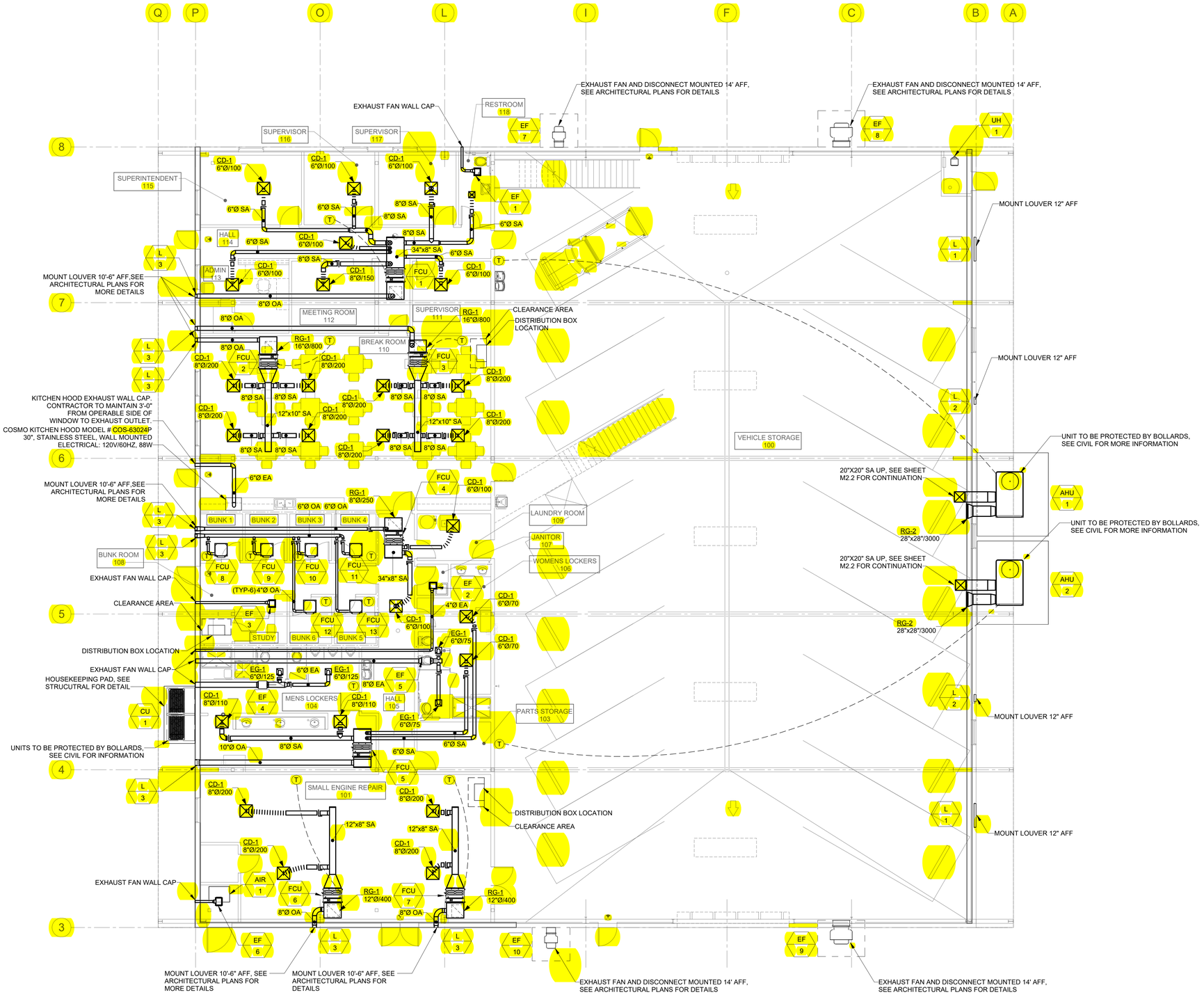
MECHANICAL SCHEDULES (2 OF 2)

M0.3

MECHANICAL VENTILATION CALCULATION

VEHICLE STORAGE AREA:	9,461 FT²
EMERGENCY EXHAUST RATE PER 2018 IMC:	0.75 CFM/FT²
REQUIRED VENTILATION:	7095 CFM
PROPOSED VENTILATION:	7100 CFM
MIN. CONTINUOUS VENTILATION:	.06 CFM/FT²
REQUIRED VENTILATION:	567 FT²
PROPOSED VENTILATION:	600 FT²

A: EXHAUST RATE APPLIES UPON DETECTION OF CO OR NO_2 IN THE AREA.



1 MECHANICAL - GROUND FLOOR
1/8" = 1'-0"

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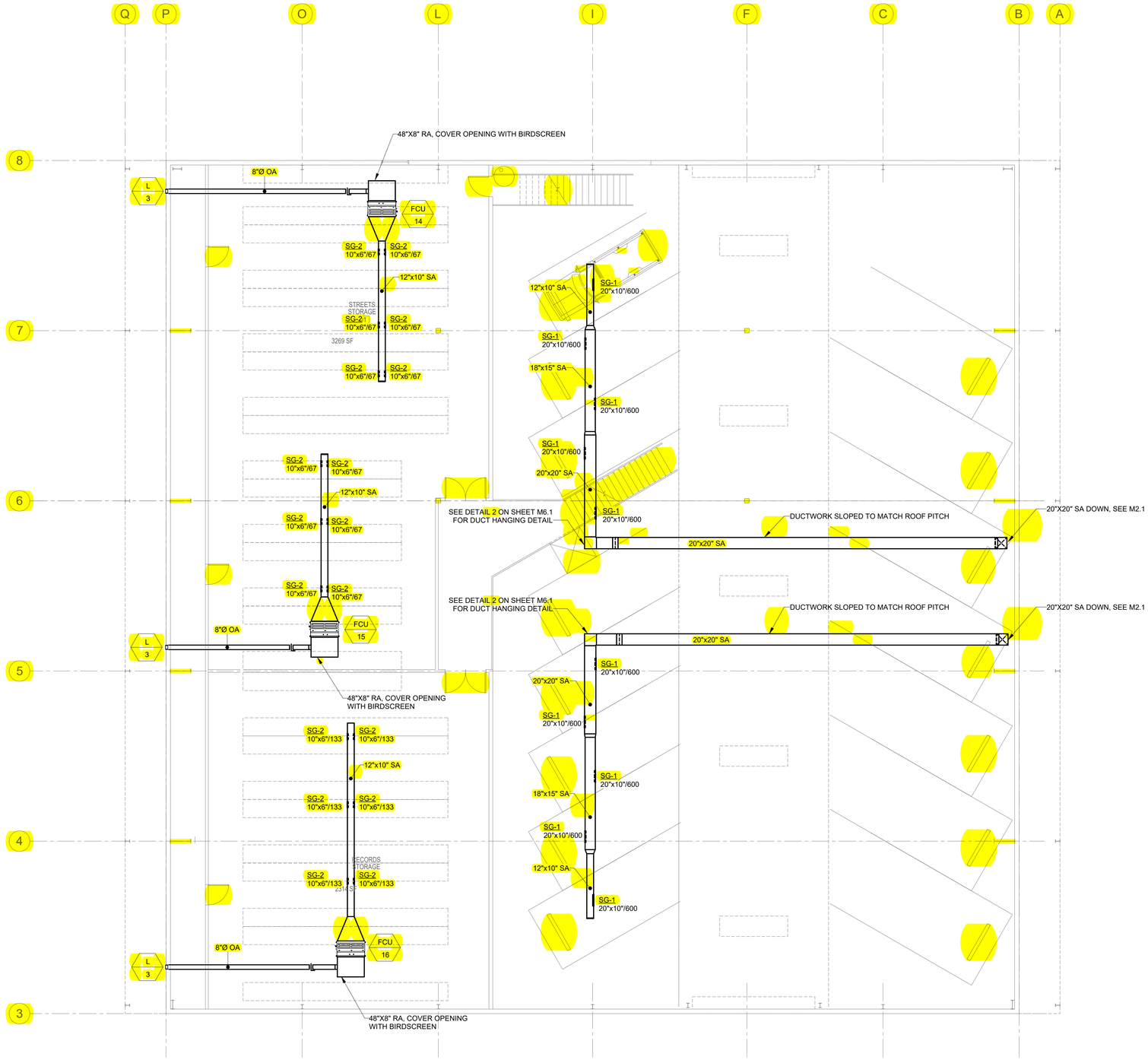
MECHANICAL FLOOR PLAN - GROUND FLOOR

M2.1



1 MECHANICAL - MEZZANINE

1/8" = 1'-0"

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MECHANICAL FLOOR PLAN - MEZZANINE

M2.2

LG

MULTI V

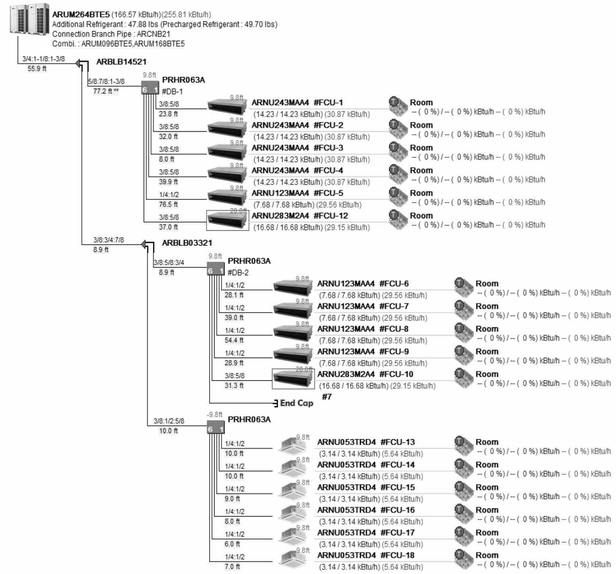
Streets Division Admin Bldg 06142024(ver 1.9.1.20)

System Tree Diagram

System Name: Multi V1

System No : 1/1

Date: 06/24/2024



* : Main pipe upsized
** : Conditional Application
Three pipe : Liquid : High Gas : Low Gas
Two pipe : Liquid : Gas

T Thermostat, G Group Control, D Dry Contact, E EEV Kit for Multi V Indoor
S AHU Comm. Kit [Discharge (supply) air], R AHU Comm. Kit [Return air]
M AHU Comm. Kit [Main module], C AHU Comm. Kit [Communications module]

Indoor Units	**: 17 of 42**
Combination Ratio	**: 242.0 of 264.0 (92%)**
Total Pipe	**: 687.0 of 3280.8 ft**
ODU factory charge	**: 49.70 lbs**
Additional Refrigerant	**: 47.88 lbs**
Total refrigerant	**: 97.58 lbs**
Minimum room volume (Based on 26.0 lbs / 1000.0 ft³)	**: 3753.07 ft³**

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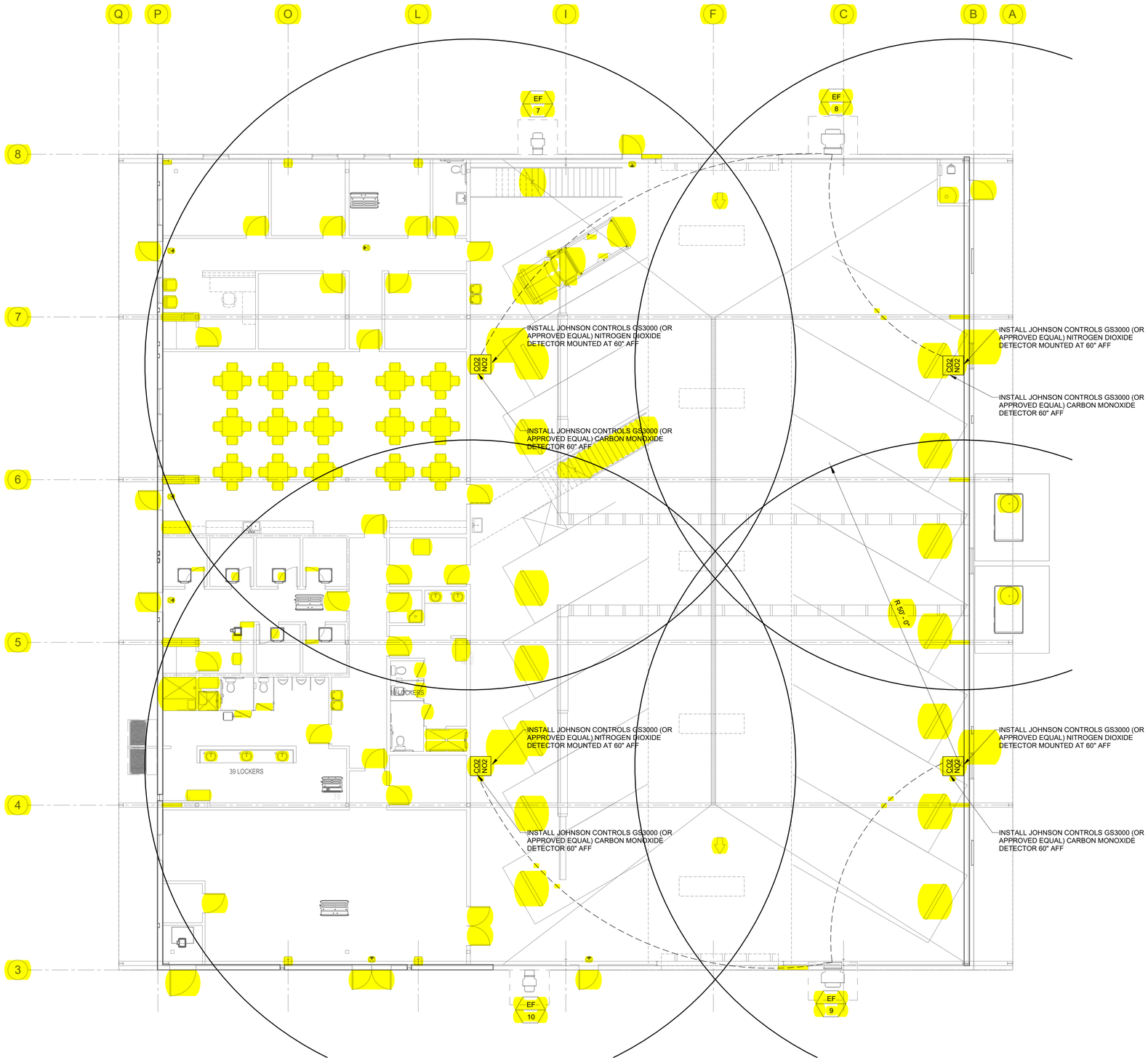
MECHANICAL PIPING PLAN - GROUND FLOOR

M2.3



1 MECHANICAL - GROUND FLOOR DETECTION

1/8" = 1'-0"

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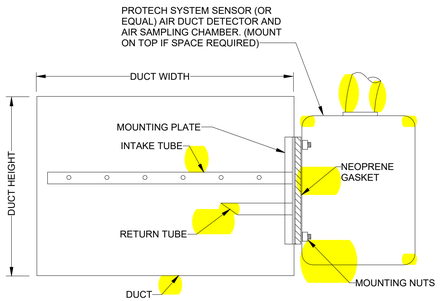
MECHANICAL DETECTION PLAN

M2.5

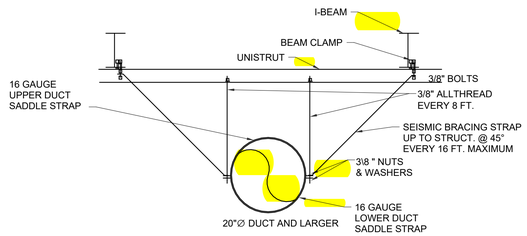


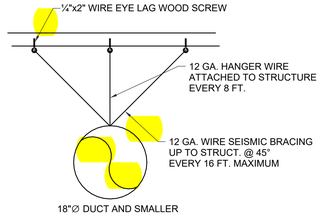
NOTES:

1. SMOKE DETECTOR FURNISHED AND MOUNTED BY MECHANICAL CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR.
2. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
3. PROVIDE ACCESS DOOR AT SAMPLING TUBES.
4. DETECTOR TO BE MOUNTED IN SUPPLY AIR DROP.

1 DUCT MOUNTED SMOKE DETECTOR DETAIL

N.T.S





ROUND DUCT GAUGE (SPIRAL SEAM)	
POSITIVE PRESSURE (+2" W.G.)	
DUCT DIAMETER, IN.	GAUGE
<=8"Ø	28
9"Ø-14"Ø	28
15"Ø-26"Ø	26
27"Ø-36"Ø	24
NEGATIVE PRESSURE (-2" W.G.)	
<=15"Ø	28
16"Ø-17"Ø	26
18"Ø-23"Ø	24
24"Ø-30"Ø	22

PER SMACNA STANDARDS

A. VERTICAL DUCTS

MAX SIDE OF RECTANGULAR DUCT	METAL STRAP OR ANGLE BRACKET	MAX DIAMETER OF ROUND DUCTS	STRAP
24"	1" x 1/8" STRAP	10"	0.047" (18GA.) GAL. STEEL 2" WIDE
36"	1" x 1" x 1/8" ANGLE	20"	0.058" (16GA.) GAL. STEEL 2" WIDE
48"	1-1/8" x 1-1/8" x 1/8" ANGLE	40"	1/8" STEEL x 1-1/2"

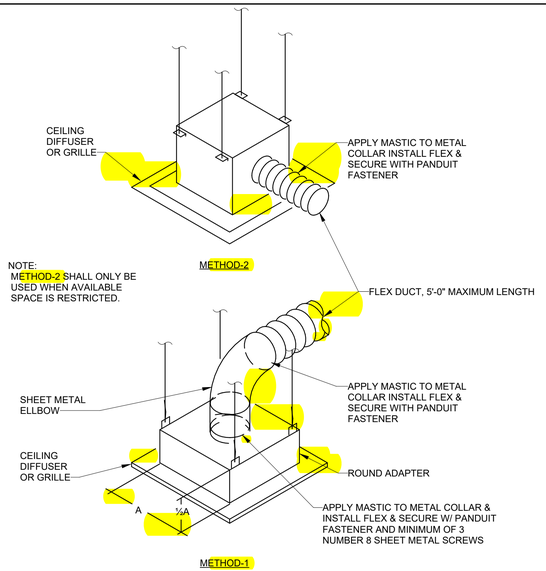
B. HORIZONTAL DUCTS

MAX SIDE OF RECTANGULAR DUCT	METAL STRAP OR ANGLE BRACKET	MAX DIAMETER OF ROUND DUCTS	STRAP
18"	1" x 18 GA.	10"	SAME GAUGE AS GAL. STEEL DUCT, 1" WIDE OR 18GA GAL. STEEL WIRE ON 10' CENTERS
30"	1" x 18 GA.		
48"	1" x 1" x 1/8"	20"	SAME GAUGE AS GAL. STEEL DUCT, 1" WIDE OR 18GA GAL. STEEL WIRE ON 10' CENTERS
60"	1" x 1" x 1/8"	40"	
80"	1" x 1" x 1/8"		

*DUCT MATERIAL AND GAUGE SHOULD COMPLY WITH CHAPTER 6 OF CALIFORNIA MECHANICAL CODE AND CONSTRUCTED IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE.

2 DUCT SUPPORT AND GAUGE

N.T.S

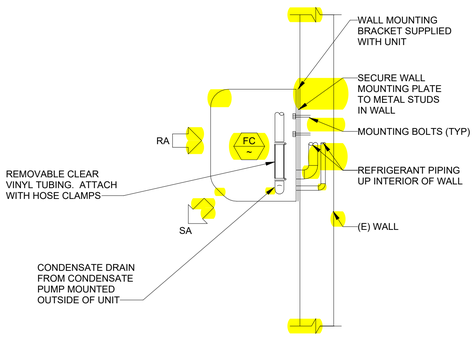


3 LAY-IN CEILING DIFFUSER DETAIL

N.T.S

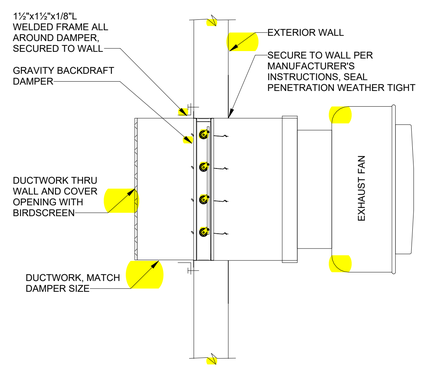
4 HORIZONTAL FAN COIL DETAIL

N.T.S



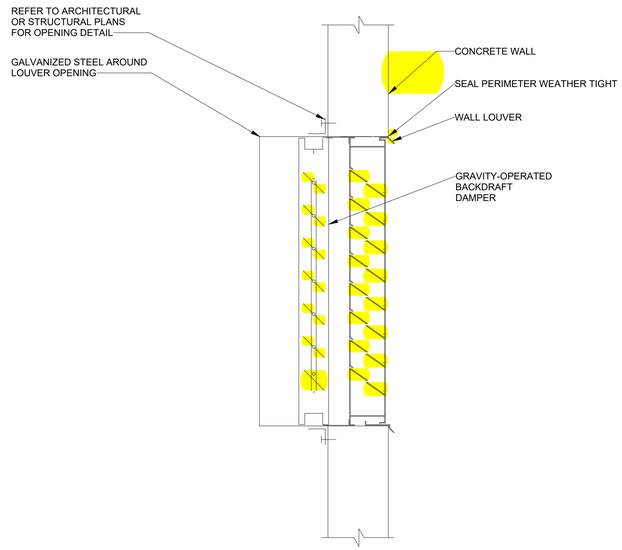
5 WALL MOUNTED FAN COIL DETAIL

N.T.S



6 SIDEWALL EXHAUST FAN DETAIL

N.T.S



7 LOUVER DETAIL

N.T.S

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MECHANICAL DETAILS

M6.1