

PRELIMINARY  
NOT FOR  
CONSTRUCTION

STRONG ARCHITECTURE, INC.  
1577 Plaza West, Prescott, AZ 86303  
(928) 771-0548

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

90% PROGRESS SET 6-28-24

REVISION

SHEET

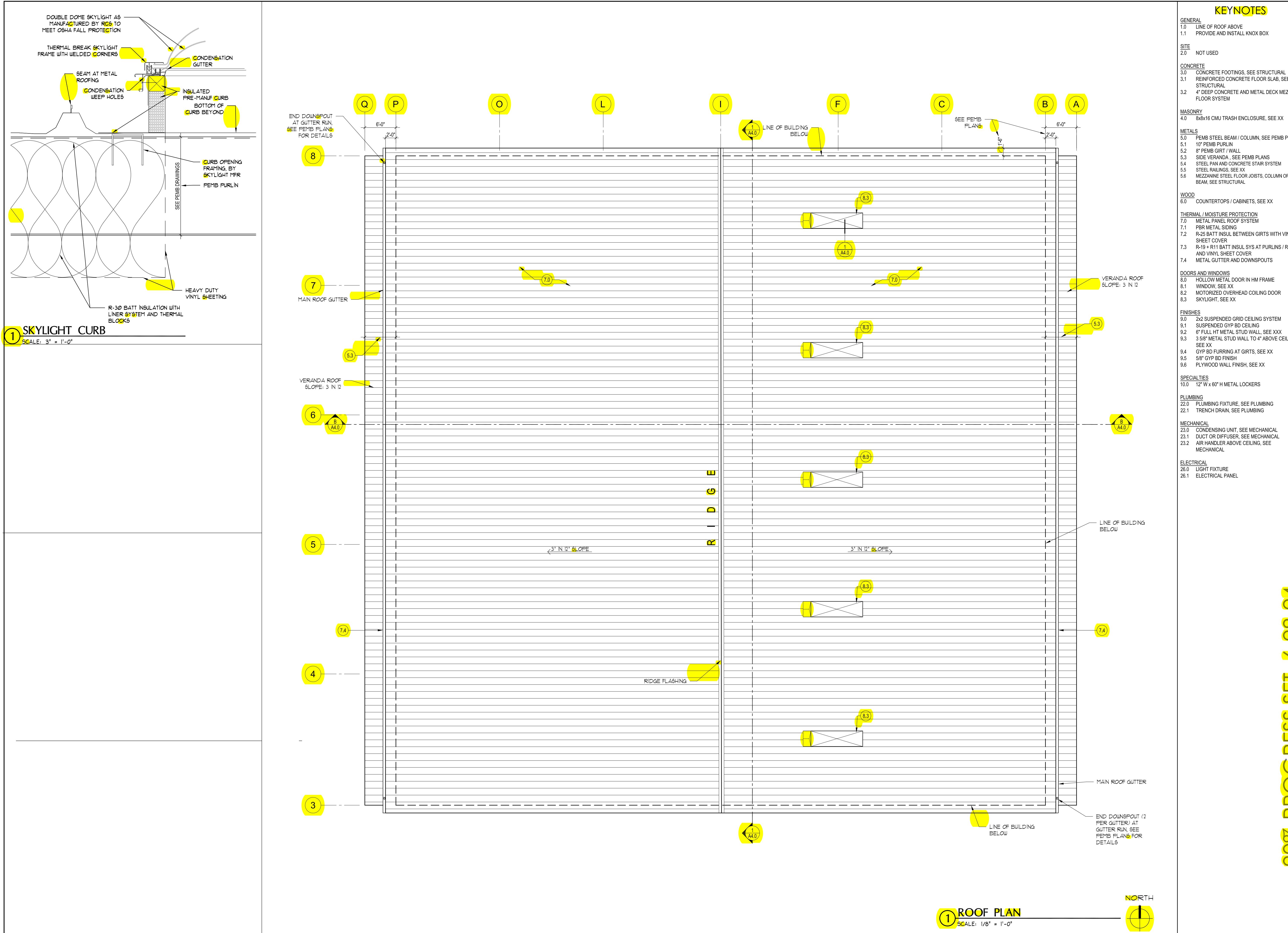
ROOF  
PLAN

A2.3

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

### 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 VERAANDA, 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 3/8" FULL HT METAL STUD WALL, SEE XXX
  - 9.3 3/8" 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



This document is an instrument of service prepared solely for Kimley-Horn's client and for a particular purpose. Any other use or reliance is without liability to Kimley-Horn.

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
FFM	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	INTEGRAL 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
MCCP	MAXIMUM OVER CURRENT PROTECTION
N/A	NOT APPLICABLE
N/C	NORMALLY CLOSED
NO	NORMALLY OPEN
NEC	NATIONAL ELECTRIC CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIS	NOT IN SCOPE
NTS	NOT TO SCALE
OCFI	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	STANDARD SIZING
TDH	TOTAL DYNAMIC HEAD
TFA	TO FLOOR ABOVE
TFB	TO FLOOR BELOW
TP	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	REFRIGERANT SUCTION AND LIQUID LINE SET/PIPING

MECHANICAL ANNOTATIONS		
SYMBOL	ABBREVIATION	DESCRIPTION
	#	MECHANICAL EQUIPMENT - (SEE MECHANICAL SCHEDULE)
		DETAIL REFERENCE CALLOUT, DETAIL NUMBER AND SHEET
		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: <b>CD-1</b> DESCRIPTION: (TYPE) (NECK SIZE) / (CFM)
	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:

- (FOR RENOVATIONS OR REMODELS) THE INFORMATION INDICATED WITHIN THE DRAWINGS AS EXISTING WAS TAKEN FROM THE PROFESSIONAL INFORMATION WHICH AS-FOUND 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.
- (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 IN CONFLICT WITH NEW SYSTEMS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ANY RELOCATIONS WITH THE APPROPRIATE SUBCONTRACTOR.
- MECHANICAL WORK SHALL CONFORM WITH THE LATEST ADOPTED LOCAL CODES, ORDINANCES, AND DESIGN REQUIREMENTS UNLESS OTHERWISE APPROVED BY THE AUTHORITY HAVING JURISDICTION (AHJ).
- CONTRACTOR SHALL COORDINATE WITH STRUCTURAL REQUIREMENTS BEFORE DRILLING OR CUTTING ANY CMU WALLS, CEILING JOISTS OR STRUCTURAL ELEMENTS.
- 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.
- CONTRACTOR TO PROVIDE ALL REQUIRED PERMITS AND FEES TO COMPLETE THE PROJECT.
- 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.
- DUE TO THE SMALL SCALE OF THE DRAWINGS, IT IS NOT FEASIBLE TO SHOW ALL REQUIRED OFFSETS, ELEVATIONS, ETC., IT IS THEREFORE THE CONTRACTOR'S 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.
- ALL INFORMATION SHOWN ON SCHEDULES ARE BASED ON AVAILABLE PRODUCT INFORMATION AT THE TIME OF DESIGN.
- 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.
- 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.
- ANY DISCREPANCIES DURING BID SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER/ARCHITECT AND RESOLVED PRIOR TO FINALIZATION OF THE CONSTRUCTION CONTRACT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL TRADE.
- EXACT LOCATION OF ACCESS PANELS SHALL BE COORDINATED WITH FINAL PLACEMENT OF ALL VALVES, DAMPERS, AND ANY OTHER COMPONENT IDENTIFIED ON THE DRAWINGS.
- FINISH AND COLOR OF EXTERNAL SURFACES FOR EXPOSED UNITS, DUCTWORK, OR PIPING SHALL BE APPROVED BY THE ARCHITECT.
- 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 SETPOINTS:  
OCCUPIED: HEATING: 75°F  
COOLING: 70°F

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

CITY OF PRESCOTT  
STREETS DIVISION ADMINISTRATION BUILDING  
SUNDOG ROAD, PRESCOTT, AZ

### CLIENT PROJECT INFO

NO:	DATE	DRAWING ISSUE DESCRIPTION
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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

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

**PRELIMINARY DRAWINGS**  
 DO NOT USE FOR CONSTRUCTION

**CITY OF  
PRESCOTT**
**STREETS  
DIVISION  
ADMINISTRATION  
BUILDING**

 SUNDOG ROAD,  
 PRESCOTT, AZ

## CLIENT PROJECT INFO


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 FILENAME:

**MECHANICAL  
SCHEDULES (1 OF  
2)**

M0.2

**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	SUPPLY FAN	COOLING COIL				HEATING COIL				ELECTRICAL				ASSOCIATED UNIT	WEIGHT	MANUFACTURER	MODEL	NOTES	
					AIRFLOW (CFM)	MIN OSA	ESP (IN W.C.)	TOTAL CAP (MBH)	EAT DB (°F)	EAT WB (°F)	LAT DB CLG	LAT WB CLG	TOTAL CAP (MBH)	EAT (°F)	LAT HTG	VOLTAGE	PHASE	Hz	AMPERAGE			
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				HEATING			ELECTRICAL				WEIGHT	MANUFACTURER	MODEL	NOTES	
	TOTAL CAP (MBH)	SUMMER AMBIENT DB (°F)	WB (°F)	EER	REFRIGERANT TYPE	TOTAL CAP (MBH)	WINTER AMBIENT DB (°F)	VOLTAGE	PHASE	Hz	MCA	MOCP				
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 RECEPTACLE 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		COOLING COIL				HEATING COIL (HEAT PUMP)				ELECTRICAL				OPERATING WEIGHT (LBS)	MANUFACTURER	MODEL	NOTES
			AIRFLOW (CFM)																	

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# UNIT HEATER SCHEDULE (ELECTRIC)

#### NOTES:

- OTES:  
MOUNT 10 FEET ABOVE FINISHED FLOOR WITHOUT OBSTRUCTING AIRFLOW.  
PROVIDE WITH UNIT MOUNTED THERMOSTAT.  
PROVIDE NECESSARY MOUNTING BRACKET AND ACCESSORIES FOR WALL MOUNTING.

Provide necessary mounting bracket and accessories for wall mounting.												
Mark	Location	Airflow (CFM)	Heating	Electrical					Weight	Manufacturer	Model	Notes
			Capacity (KW)	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**

ES

- OVIDE WITH 6" TO 4" ROUND REDUCES.  
OVIDE WALL CAL WITH INTEGRAL BACKDRAFT DAMPER.  
N TO OPERATE OFF ROOMS LIGHT SWITCH, SEE ELECTRICAL DRAWINGS.  
N SHALL BE OPERATED INTEGRATED TO GAS DETECTION SYSTEM TO ACTIVATE BASED ON CO AND NO<sub>2</sub> DETECTION.  
OVIDE WITH BIDSCREEN OVER OPENING AND GRAVITY BACKDRAFT DAMPER.  
N TO OPERATE CONTINUOUSLY, SEE ELECTRICAL FOR WALL SWITCH LOCATION.

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

# CITY OF PRESCOTT

# STREETS DIVISION ADMINISTRATION BUILDING

SUNDOG ROAD,  
PRESCOTT, AZ

## CLIENT PROJECT INFO

DESIGNED BY: Designer

DRAWN BY: Author

CHECKED BY: Checker

**SCALE:** \_\_\_\_\_

**DATE:** 03/21/2024

PROJECT NO: 091345049

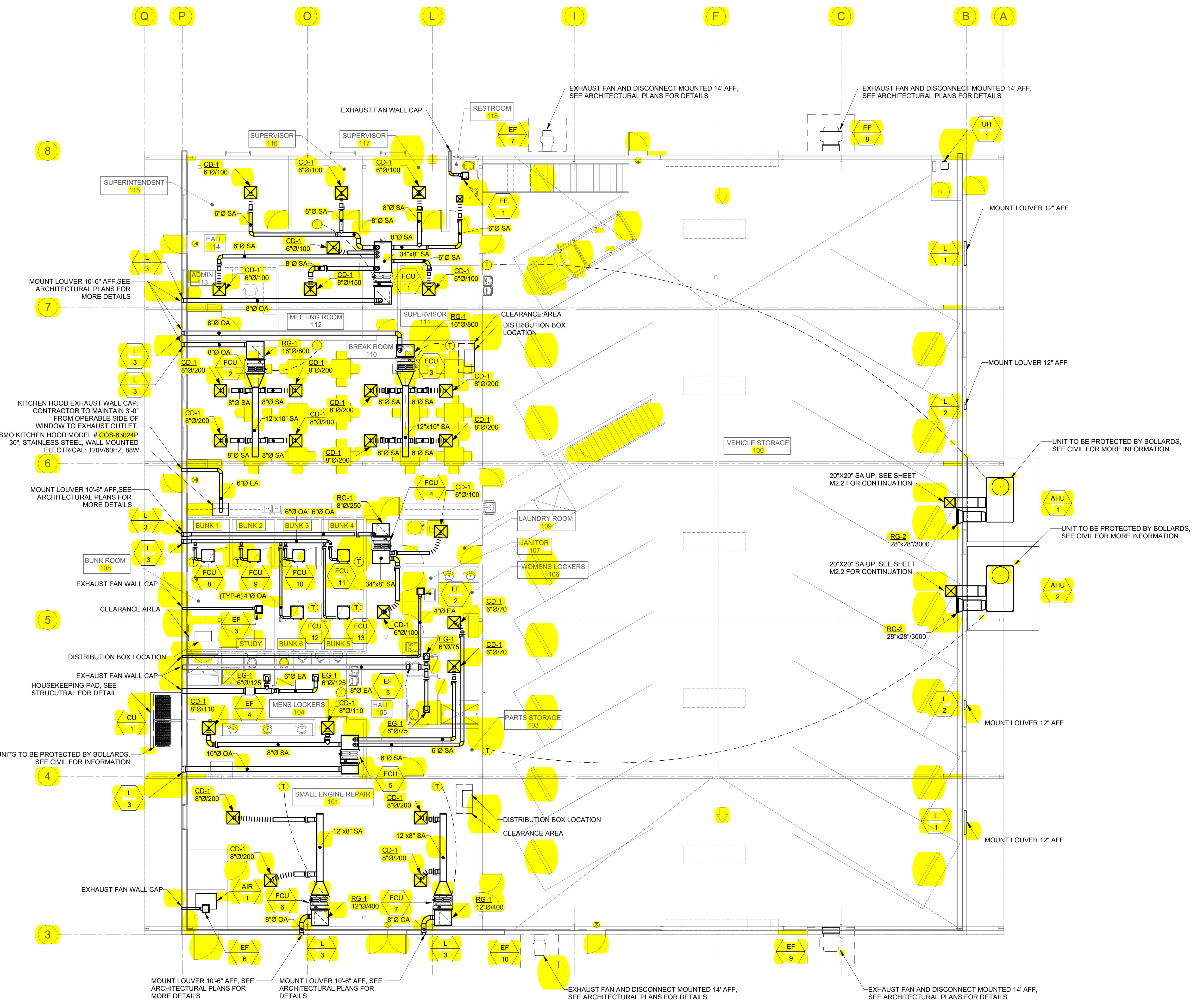
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# MECHANICAL SCHEDULES (2 OF 2)

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## MECHANICAL VENTILATION CALCULATION

VEHICLE STORAGE AREA:	<u>9,461 FT<sup>2</sup></u>
EMERGENCY EXHAUST RATE PER 2018 IMC:	<u>.75 CFM/FT<sup>2</sup></u>
REQUIRED VENTILATION:	<u>7095 CFM</u>
PROPOSED VENTILATION:	<u>7100 CFM</u>
MIN. CONTINUOUS VENTILATION:	<u>.06 CFM/FT<sup>2</sup></u>
REQUIRED VENTILATION:	<u>567 FT<sup>2</sup></u>
PROPOSED VENTILATION:	<u>600 FT<sup>2</sup></u>



# MECHANICAL - GROUND FLOOR

**1/8" = 1'-0"**

M2.1

# MECHANICAL FLOOR PLAN - GROUND FLOOR

DESIGNED BY: Designer

DRAWN BY: Author

CHECKED BY: Checker

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

**DATE:** 03/21/2024

PROJECT NO: 091345049

FILENAME:

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# **ELIMINARY DRAWINGS**

**NOT USE FOR CONSTRUCTION**

# CITY OF PRESCOTT

# STREETS DIVISION ADMINISTRATION BUILDING

SUNDOG ROAD,  
PRESCOTT, AZ

## IT PROJECT INFO

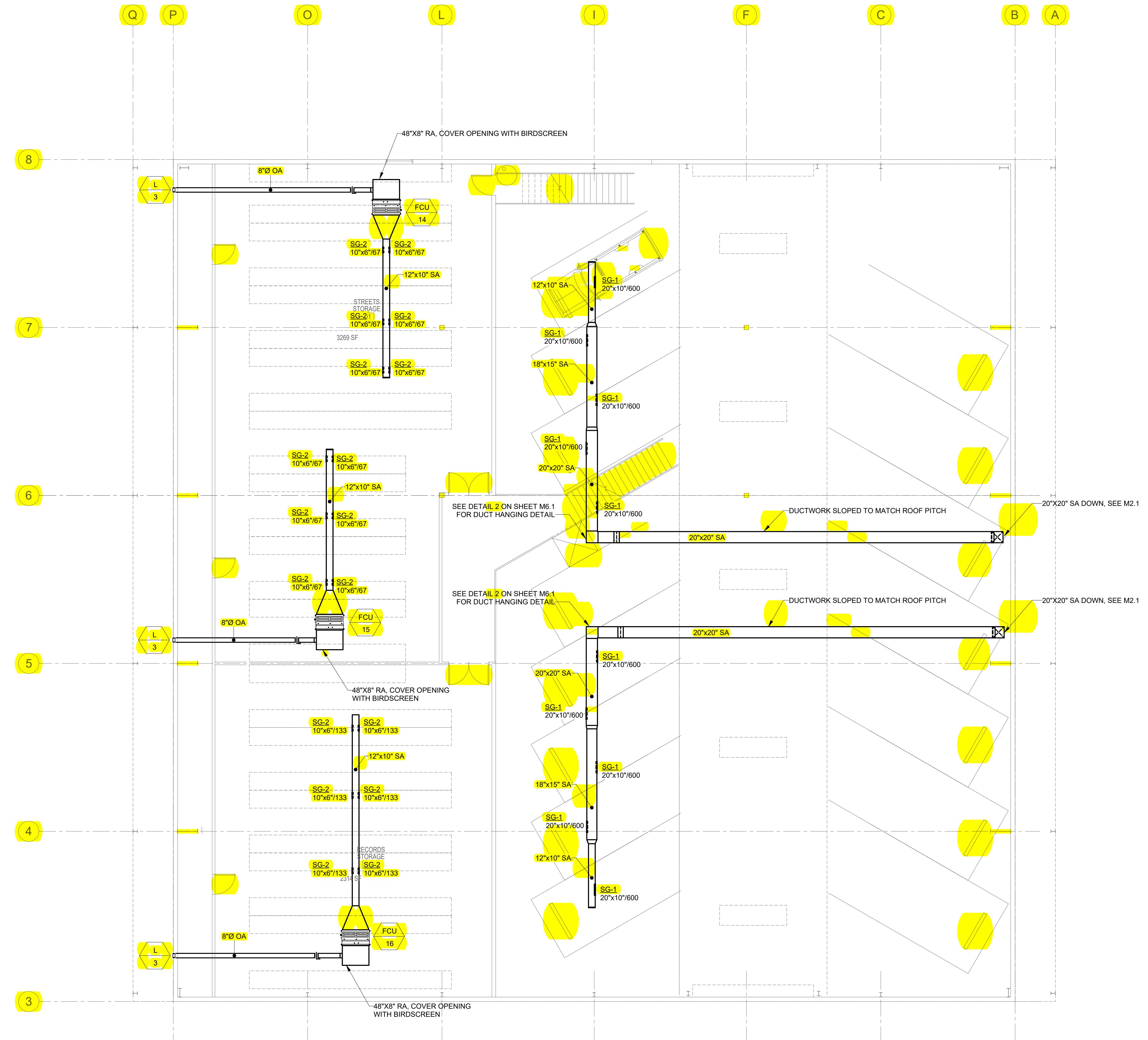
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<b>DATE</b>	<b>DRAWING ISSUE DESCRIPTION</b>

NED BY: Designer  
N BY: Author  
KED BY: Checker  
E: 1/8" = 1'-0"  
Y: 03/21/2024  
ECT NO: 091345049  
AME:

# MECHANICAL FLOOR PLAN - MEZZANINE

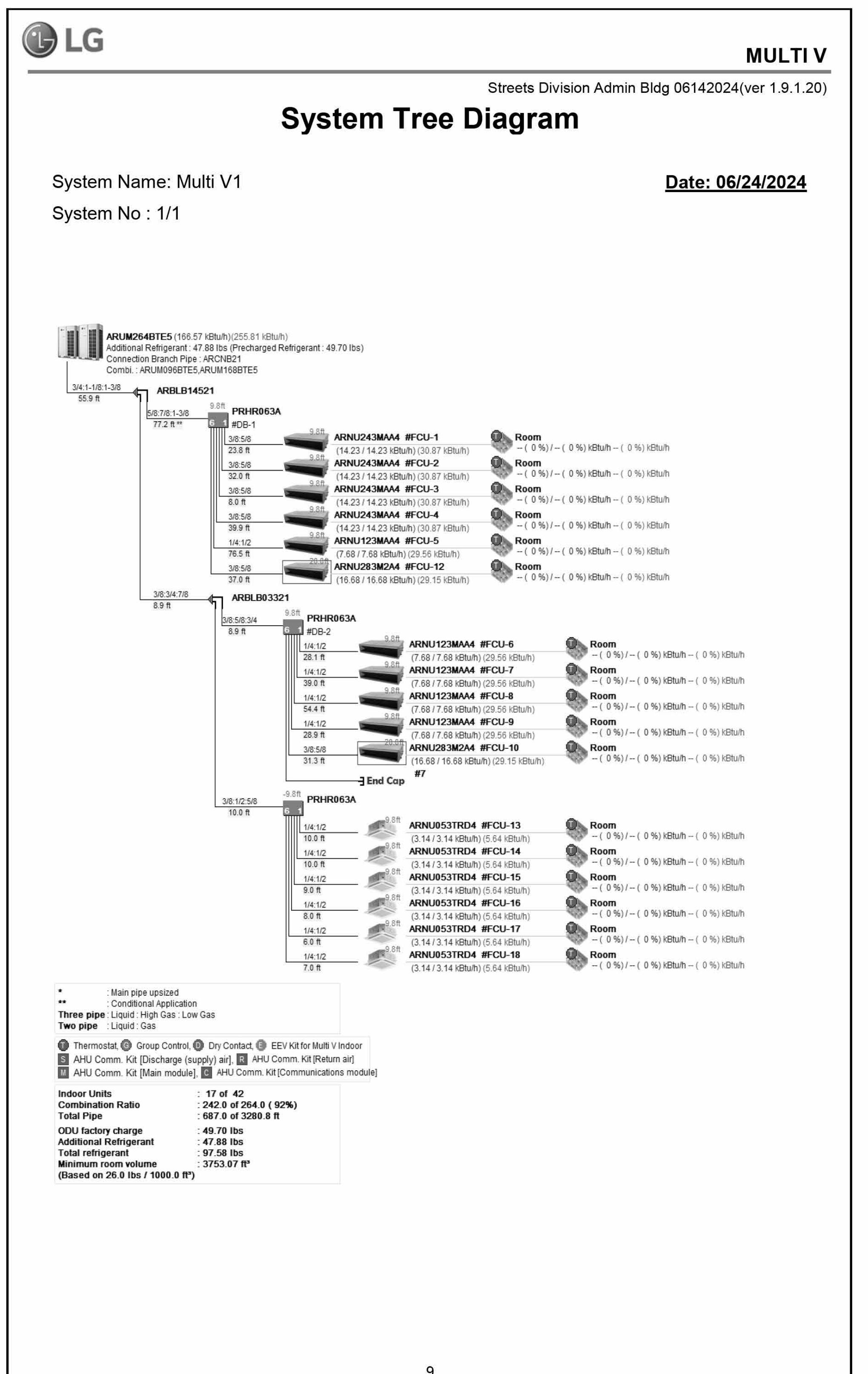
# M2.2



# **MECHANICAL - MEZZANINE**

**1/8" = 1'-0"**

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# **RELIMINARY DRAWINGS**

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# STREETS DIVISION ADMINISTRATION BUILDING

SUNDOG ROAD,  
PRESCOTT, AZ

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CHECKED BY: Checker

**SCALE:** \_\_\_\_\_

**DATE:** 03/21/2024

PROJECT NO: 091345049

**FILENAME:** \_\_\_\_\_

# MECHANICAL PIPING PLAN - GROUND FLOOR

# M2.3

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**SEALS**  
**PRELIMINARY DRAWINGS**  
DO NOT USE FOR CONSTRUCTION

CITY OF  
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STREETS  
DIVISION  
ADMINISTRATION  
BUILDING

SUNDOG ROAD,  
PRESCOTT, AZ

CLIENT PROJECT INFO

NO.	DATE	DRAWING ISSUE DESCRIPTION

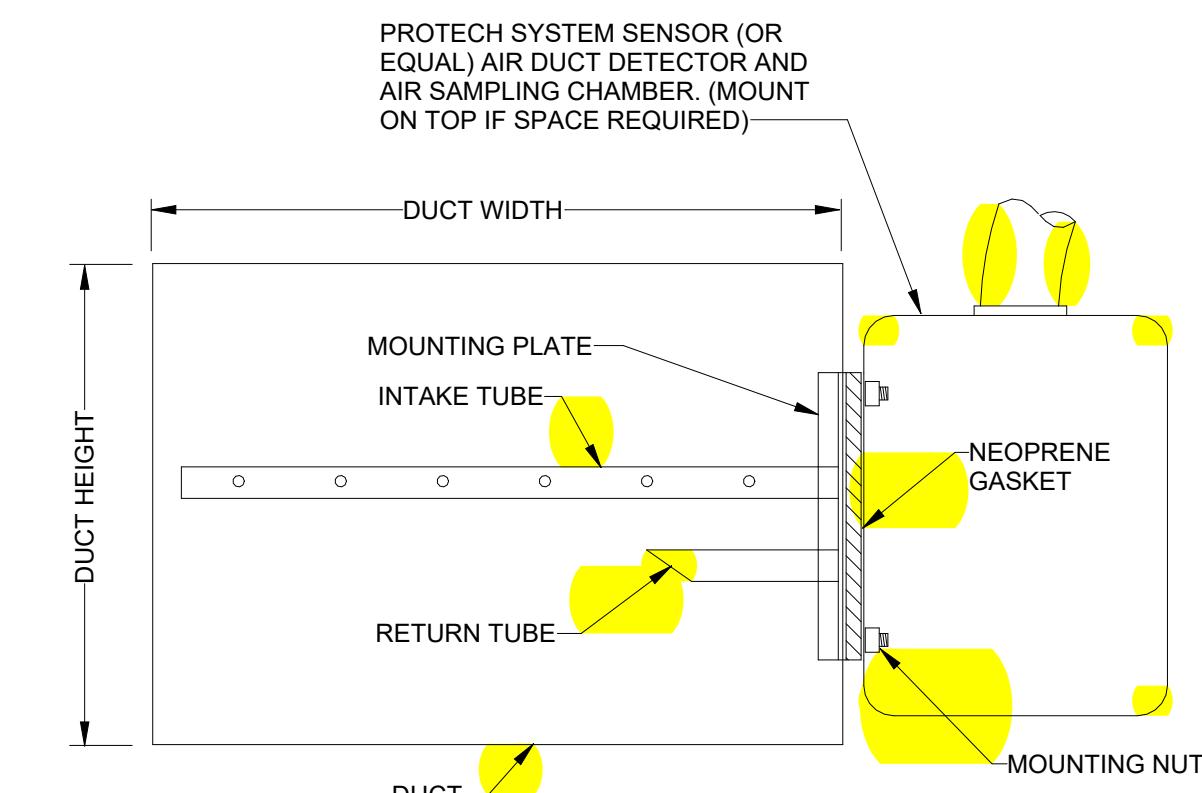
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DRAWN BY: Author  
CHECKED BY: Checker  
SCALE: 1/8" = 1'-0"  
DATE: 03/21/2024  
PROJECT NO: 091345049  
FILENAME:

MECHANICAL  
DETECTION PLAN

M2.5

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

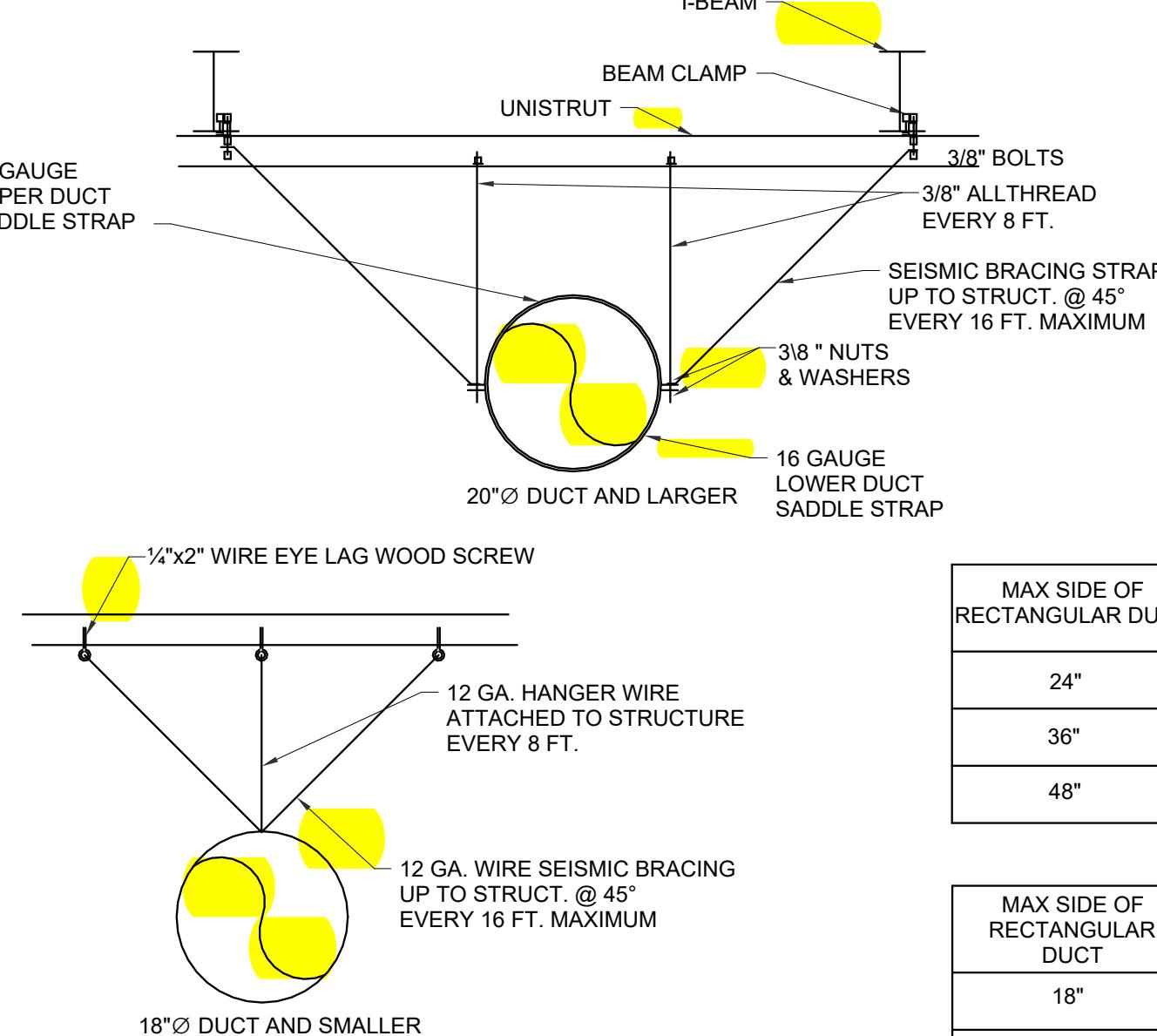
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- NOTES:**
1. SMOKE DETECTOR FURNISHED AND MOUNTED BY MECHANICAL CONTRACTOR AND WIRING BY ELECTRICAL CONTRACTOR.
  2. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
  3. PROVIDE ACCESS DOOR AT SAMPLING TUBES.
  4. DETECTOR 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	

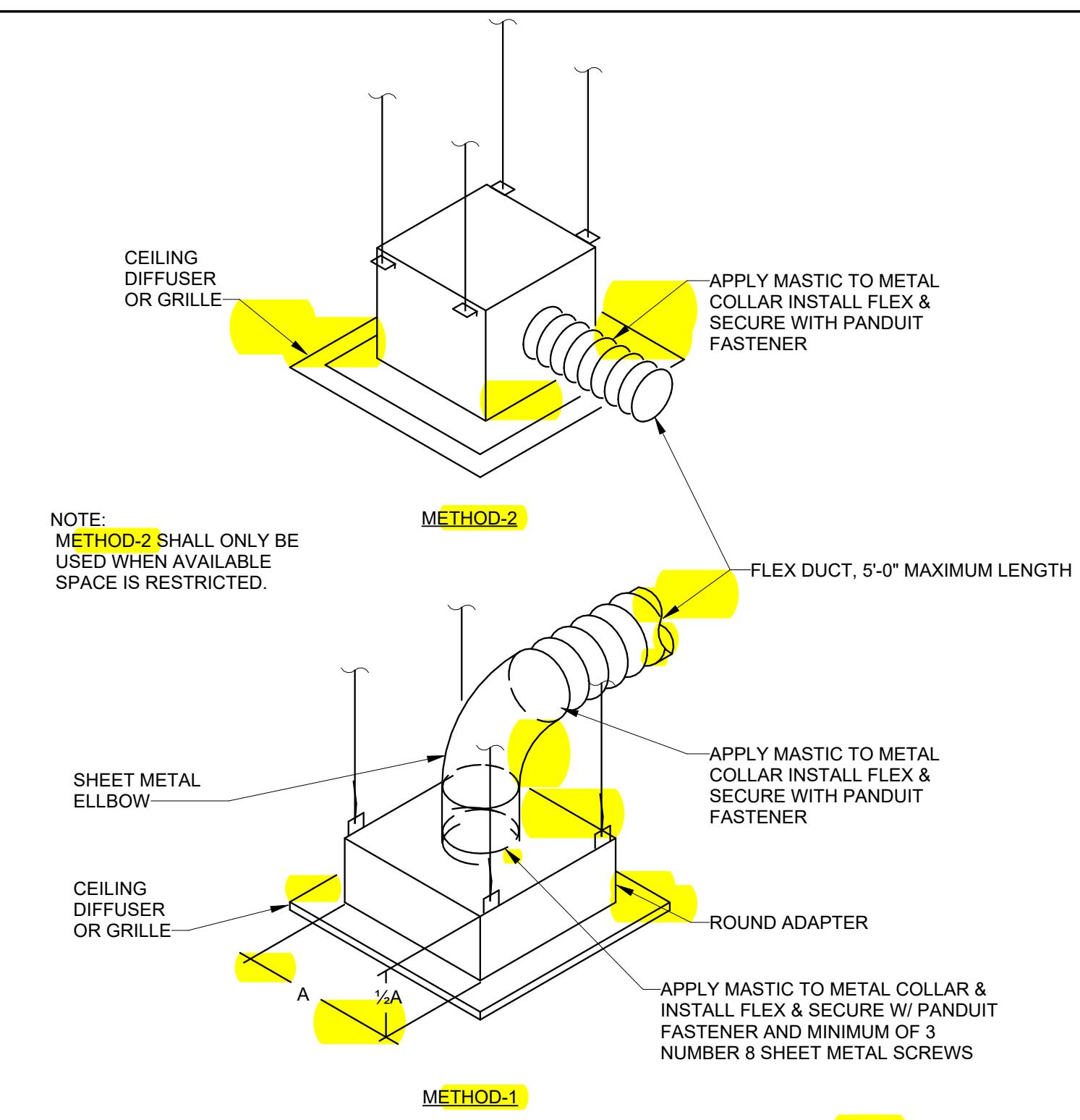
## A. VERTICAL DUCTS

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" (16GA.) 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

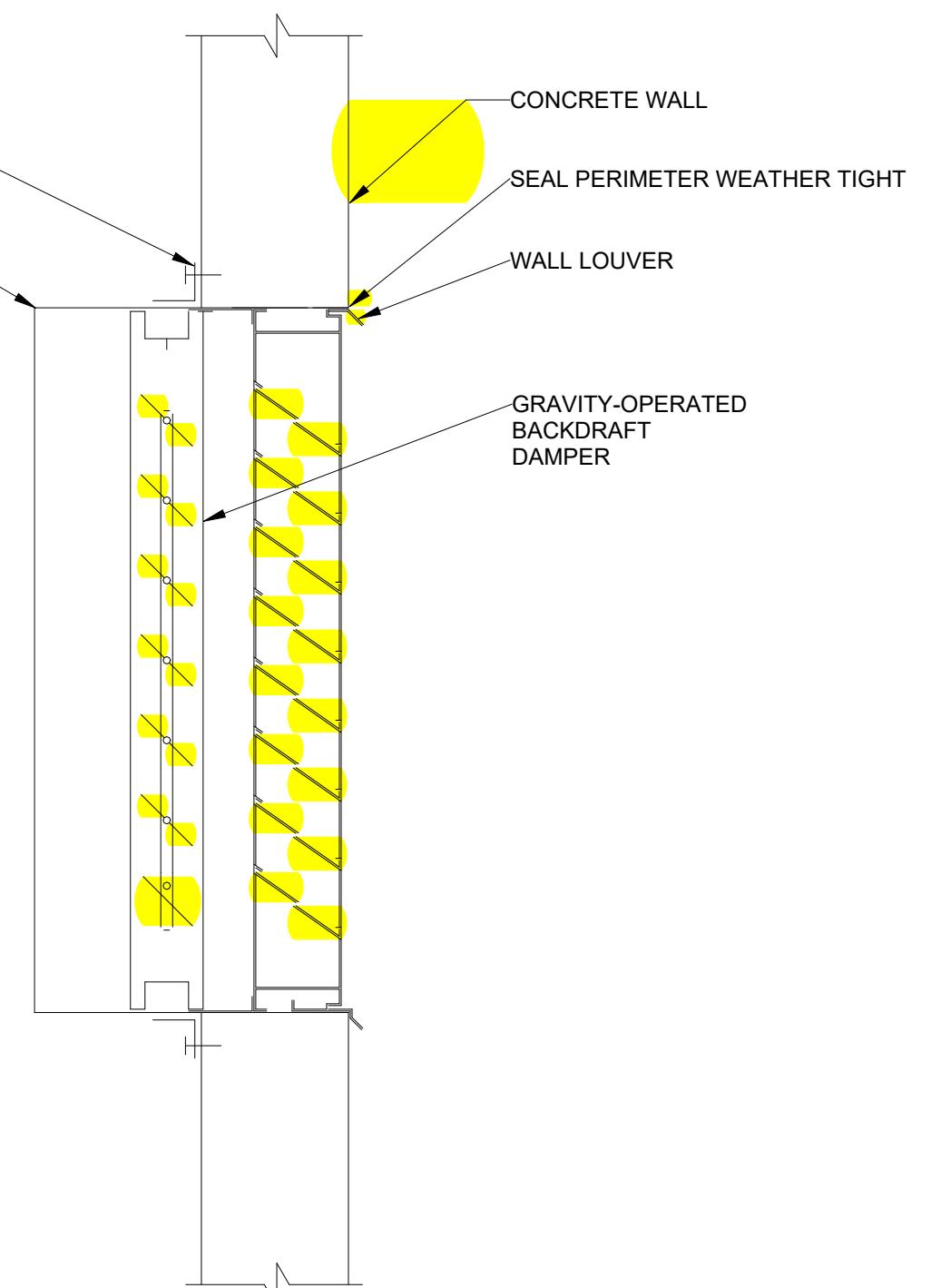
MAX SIDE OF RECTANGULAR DUCT	METAL STRAP OR ANGLE BRACKET	MAX DIAMETER OF ROUND DUCTS	STRAP
18"	1" x 18 GA.	10"	SAME GAUGE AS GAL. STEEL DUCT, 1" WIDE OR 18GA GAL. STEEL WIRE ON 10" CENTERS
30"	1" x 18 GA.		
48"	1" x 1/8"	20"	SAME GAUGE AS GAL. STEEL DUCT, 1" WIDE OR 18GA GAL. STEEL WIRE ON 10" CENTERS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

\*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.



## 3 LAY-IN CEILING DIFFUSER DETAIL

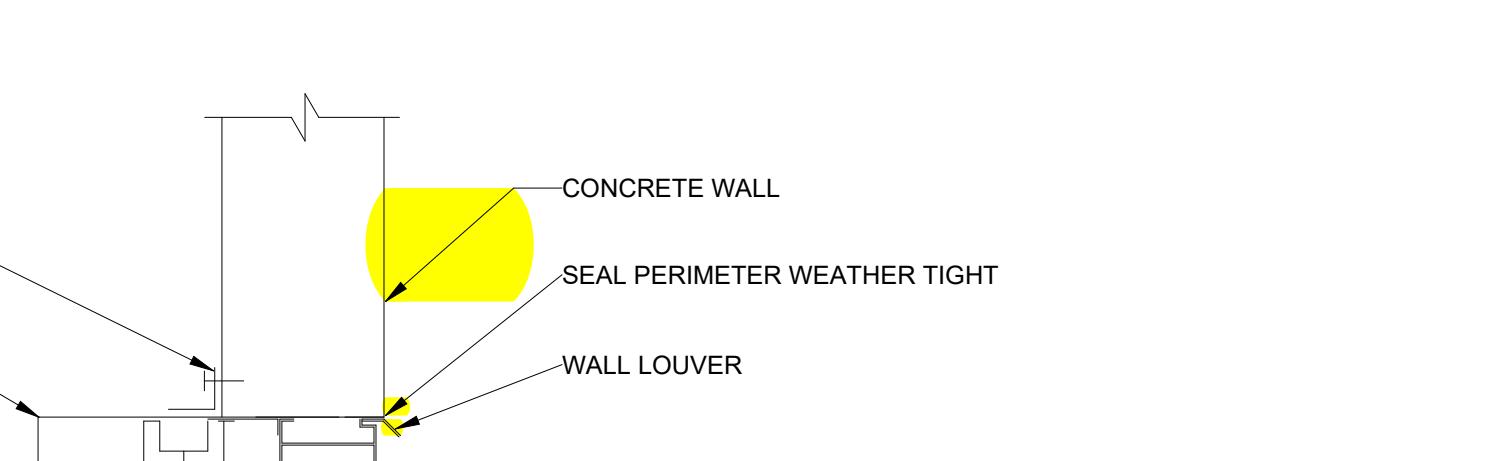
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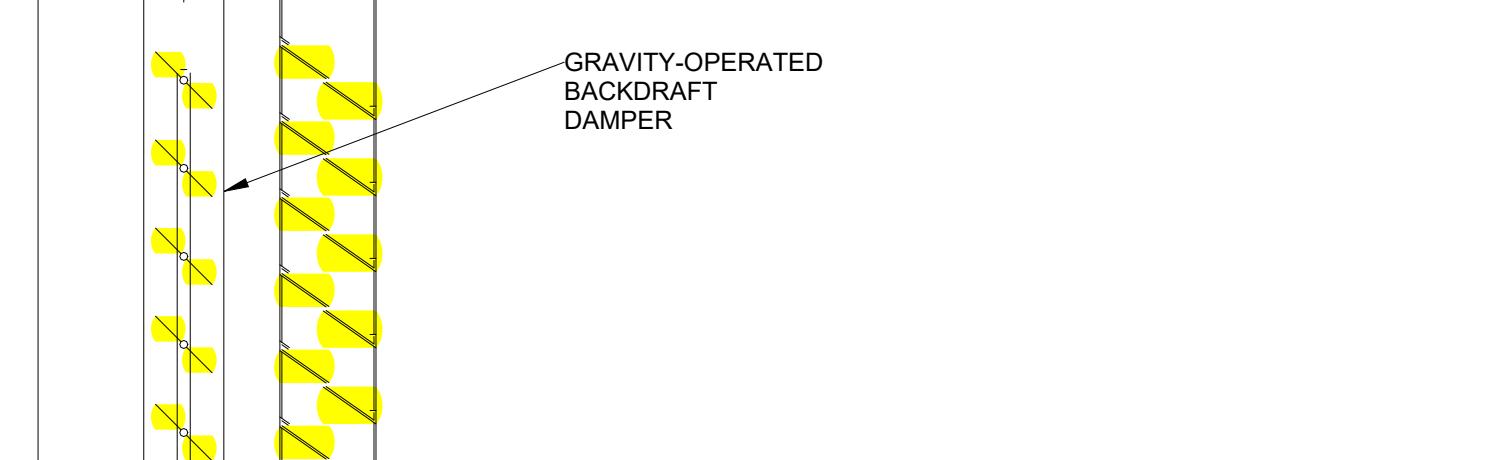
N.T.S



N.T.S



N.T.S



N.T.S



N.T.S

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:	12" = 1'-0"	
DATE:	03/21/2024	
PROJECT NO:	091345049	
FILENAME:		

MECHANICAL  
DETAILS

M6.1