



1627 MAIN STREET, SUITE 600
KANSAS CITY, MO 64108



1627 MAIN STREET, SUITE 100
KANSAS CITY, MO 64108



1301 BURLINGTON STREET
NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT LEE'S SUMMIT AIRPORT

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



09-29-2023

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

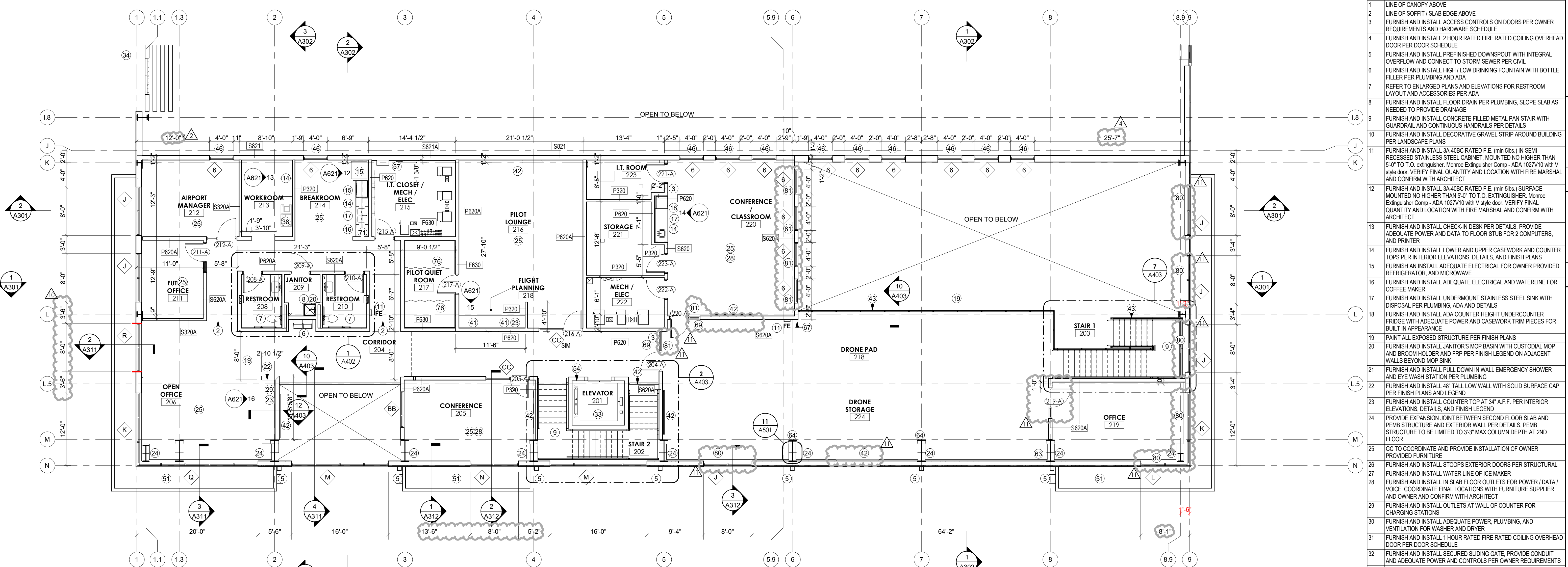
PROJECT NO.:	2219
CAD DWG FILE:	Lee's Summit - Hangar 2.rvt
DESIGNED BY:	DM
DRAWN BY:	DM
CHECKED BY:	WAI
APPROVED BY:	WAI
COPYRIGHT	2023

SHEET TITLE

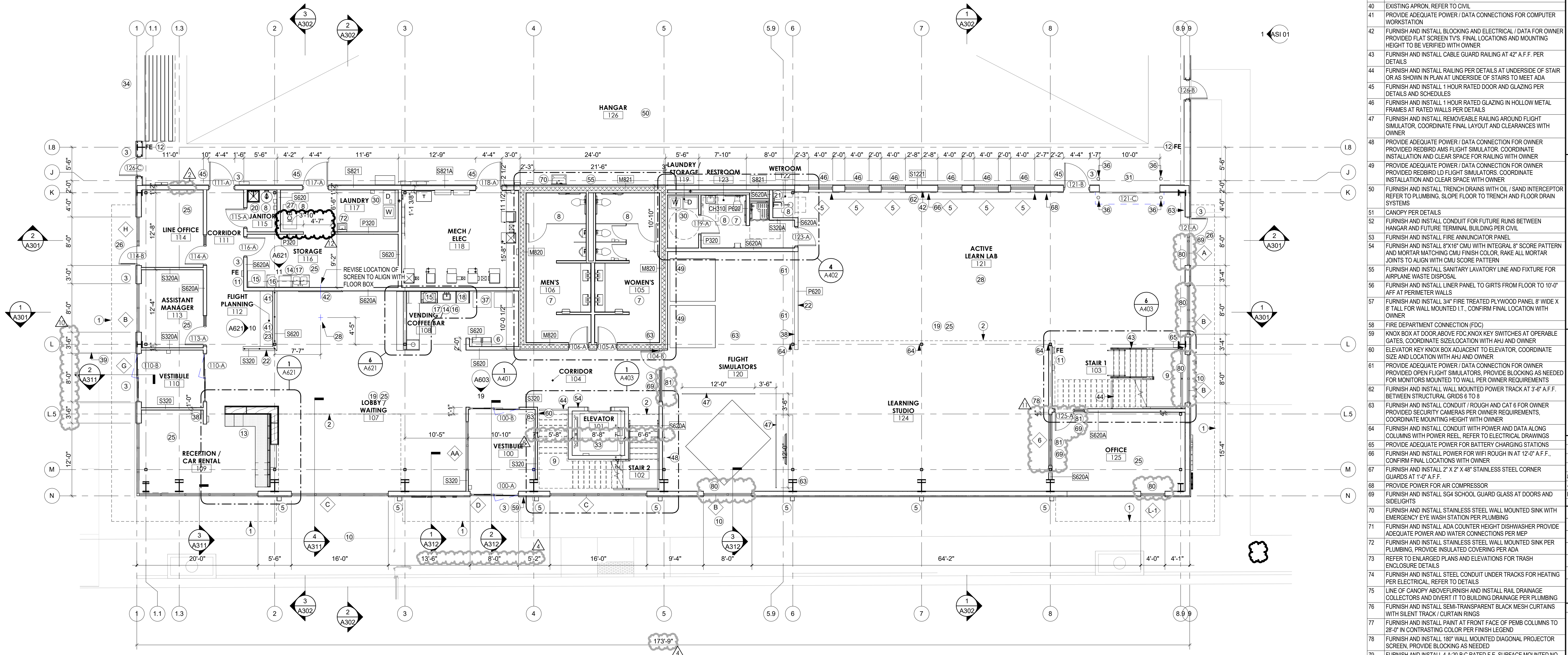
FLOOR PLANS

A102

SHEET OF



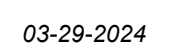
PLAN - LEVEL 2 HANGAR 2
REFERENCED FROM 1 / A201 1/8" = 1'-0" 2



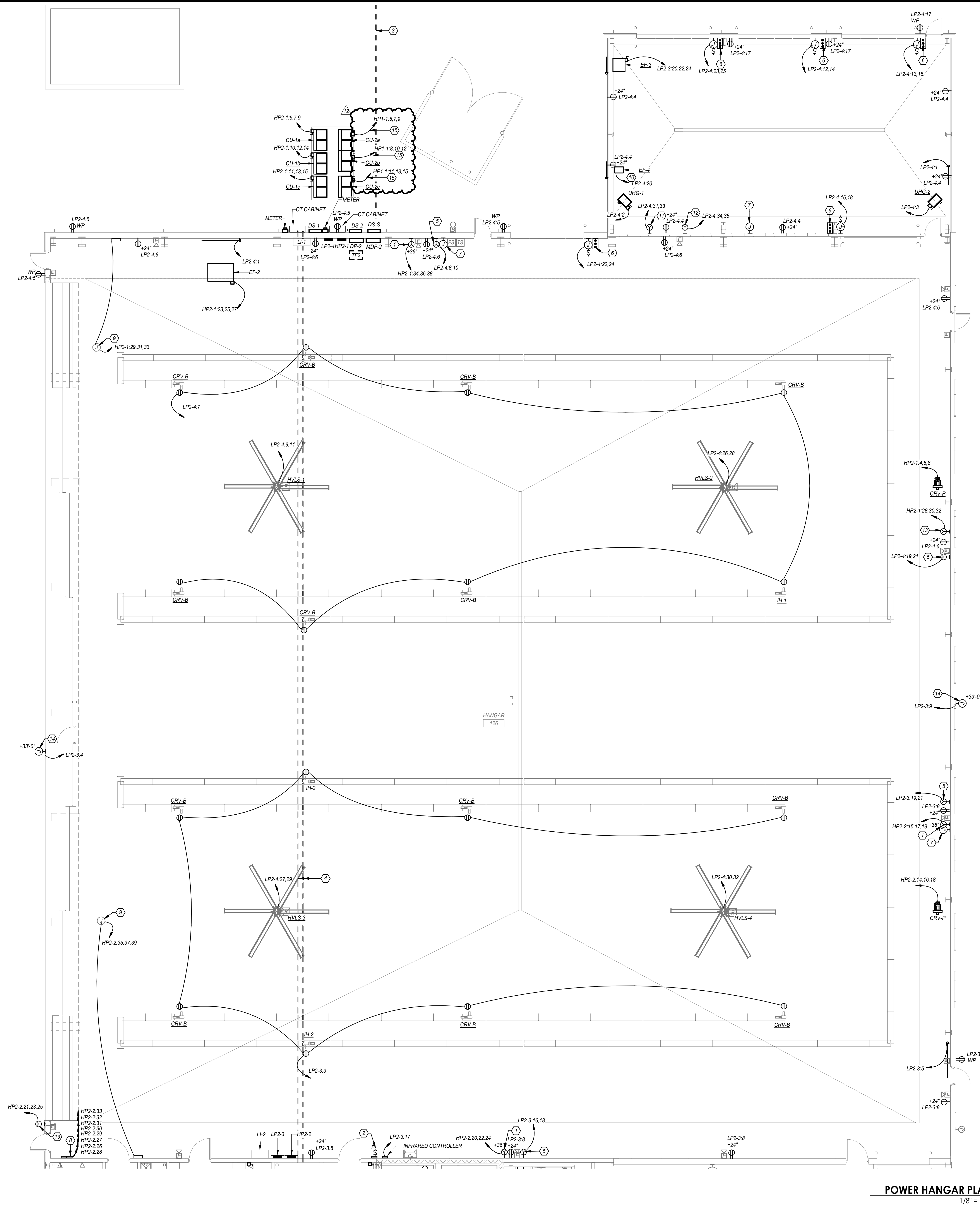
PLAN - LEVEL 1 HANGAR 2
REFERENCED FROM 2 / A100 1/8" = 1'-0" 1



- POWER SECOND FLOOR PLAN** $\frac{1}{8}" = 1'-0"$ **2** 



SHEET OF



ELECTRICAL KEYNOTES

- 1 PROVIDE KILLARK RECEPTACLE VR1041ES OR VR1044ES FOR OWNER PROVIDED GROUND POWER UNIT. REFER TO MANUFACTURER MANUAL FOR EXACT REQUIREMENTS. PROVIDE (3#-42) AND (1#48 GROUND IN 1-1/4" CONDUIT. MOUNT AT 38" A.F.F.
- 2 ROUTE CIRCUIT FOR CEILING FANS THROUGH CONDUIT, KEYPAD.
- 3 SECONDARY FEEDER ROUTED BELOW GRADE FROM UTILITY TRANSFORMER. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
- 4 FEEDER ROUTED BELOW FROM SERVICE ENTRANCE. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
- 5 PROVIDE NEMA 6-30R RECEPTACLE FOR OWNER PROVIDED EQUIPMENT. PROVIDE WITH MANUFACTURER'S EXACT REQUIREMENTS. PROVIDE (2#40 AND 1#416 GROUND IN 0.75" CONDUIT. MOUNT RECEPTACLE AT 24" A.F.F.
- 6 PROVIDE STARTSTOP PUSH BUTTON FOR COILING OVERHEAD DOOR PER MANUFACTURER REQUIREMENT.
- 7 PROVIDE BACK BOX AND 1-1/4" CONDUIT ROUGH-IN FOR OWNER PROVIDED EQUIPMENT. ROUTE EMPTY CONDUIT WITH PULL STRINGS TO NEAREST 200V PANELBOARD.
- 8 PROVIDE CIRCUITS FOR SHOW MELT RELAY PANEL. REFER TO MANUFACTURER FOR ADDITIONAL INFORMATION.
- 9 PROVIDE (3#-810 AND 1#-810 GROUND IN 3/4" CONDUIT FOR HANGER DORMER MOTORS. PROVIDE ADDITIONAL POWER CONNECTIONS TO EACH MOTOR AND OWNER PER MANUFACTURER'S REQUIREMENT. ROUTE LOW VOLTAGE CABLE TO CONTROLLER.
- 10 ROUTE 120V POWER TO HYDROGEN GAS DETECTOR FOR EXHAUST FAN CONTROL. REFER TO HANGER DORMER PLANS AND MANUFACTURER DETAILS FOR ADDITIONAL INFORMATION.
- 11 PROVIDE KILLARK RECEPTACLE VR041ES OR VR044E FOR OWNER PROVIDED TUG WELDER. REFER TO MANUFACTURER MANUAL FOR EXACT REQUIREMENTS. PROVIDE (3#-48) AND 1#-810 GROUND IN 1" CONDUIT. MOUNT AT 38" A.F.F.
- 12 PROVIDE KILLARK RECEPTACLE VR1041ES OR VR1044ES FOR OWNER PROVIDED TUG WELDER. REFER TO MANUFACTURER MANUAL FOR EXACT REQUIREMENTS. PROVIDE (3#-42) AND (1#48 GROUND IN 1-1/4" CONDUIT. MOUNT AT 38" A.F.F.
- 13 PROVIDE KILLARK RECEPTACLE VR943ES OR VR964A FOR OWNER PROVIDED GROUND POWER UNIT. REFER TO MANUFACTURER MANUAL FOR EXACT REQUIREMENTS. PROVIDE (3#-34 AND 1#-48 GROUND IN 1-1/4" CONDUIT. MOUNT AT 38" A.F.F.
- 14 PROVIDE GROUNDING FOR OVERSIZING UNITS CO-2A,B,C SHALL BE RELOCATED TO PANELBOARD HP1.



1627 MAIN STREET, SUITE 60
KANSAS CITY, MO 64108



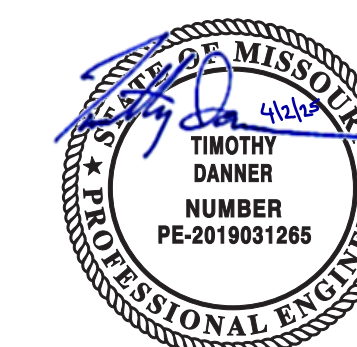
1627 MAIN STREET, SUITE 10
KANSAS CITY, MO 64108

olsson

1301 BURLINGTON STREET
NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



03-29-202.

LEES SUMMIT MUNICIPAL AIRPORT AUTHORITY
LEES SUMMIT, MO

12	4/4/25	PR 10
6	11/8/24	PR-07
5	8/7/24	PR-06
MARK	DATE	DESCRIPTION

S	8/17/24	PK-06
MARK	DATE	DESCRIPTION
PROJECT NO: 022-04268		
CAD DWG FILE: Lee's Summit - Hangar 2.rvt		
DESIGNED BY: SH		
DRAWN BY: OH		
CHECKED BY: AF		
APPROVED BY: TWD		
COPYRIGHT 2023		

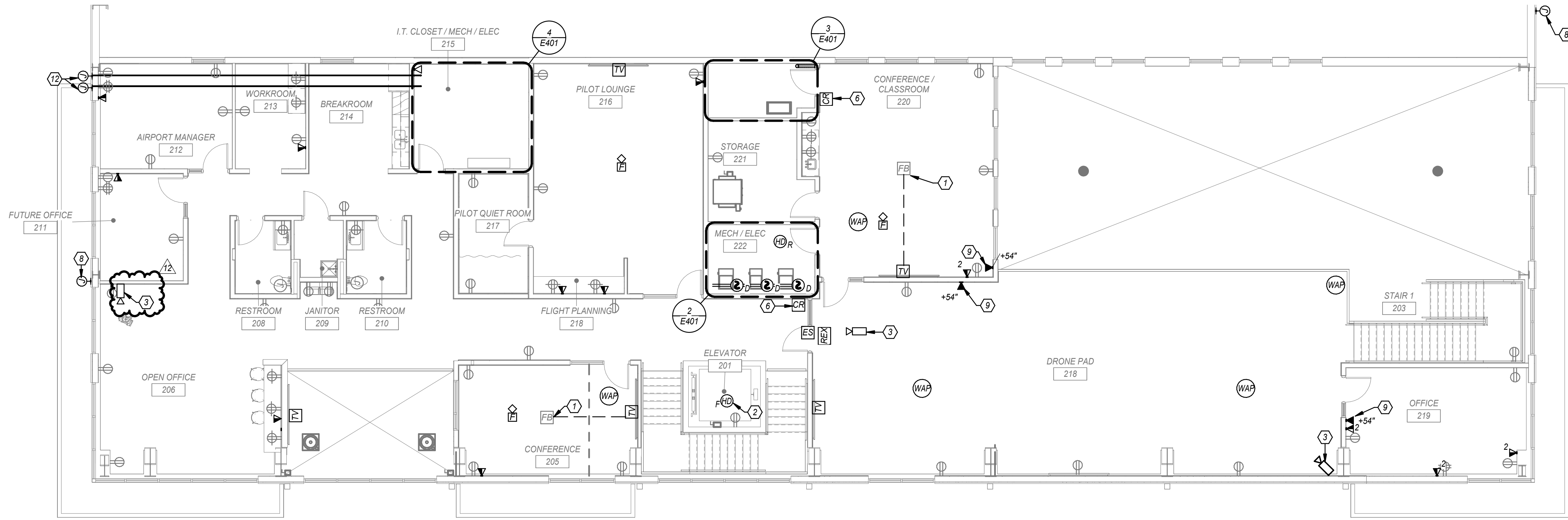
SHEET TITLE

POWER HANGAR PLAN

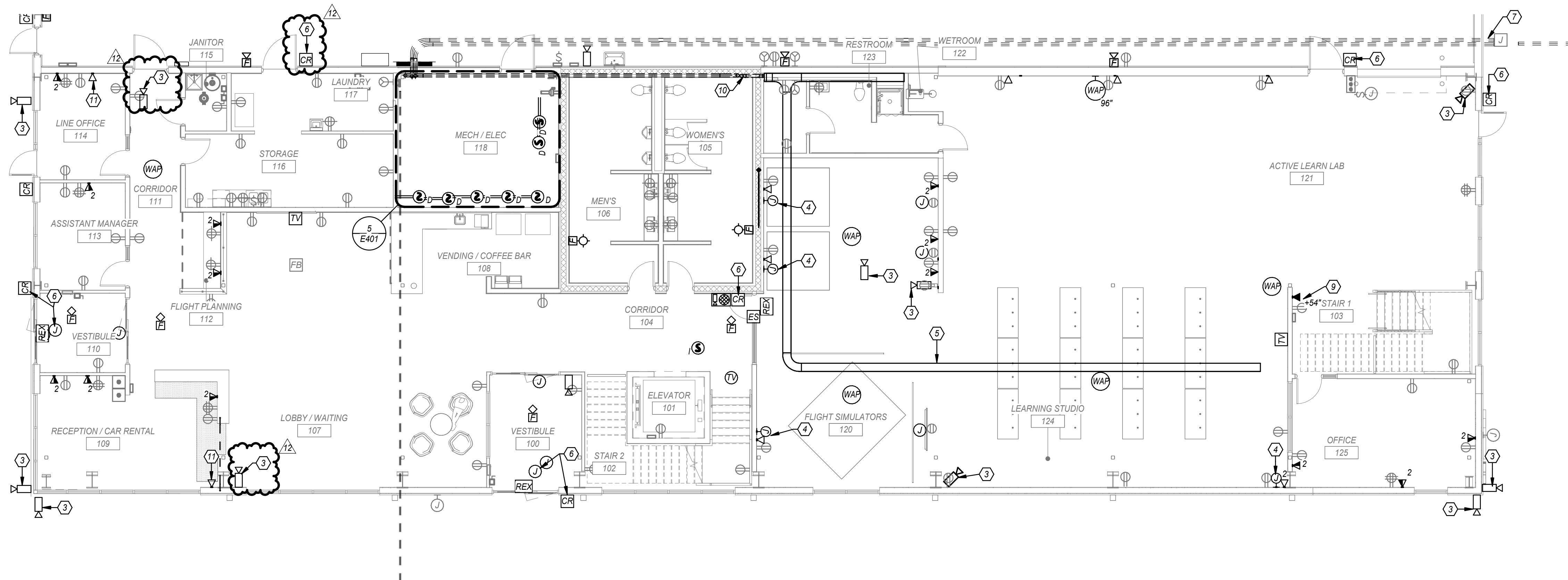
E202

SHEET OF

4/4/2025 11:59:31 AM



SYSTEMS SECOND FLOOR PLAN 2 1/8" = 1'-0"



SYSTEMS FIRST FLOOR PLAN 1 1/8" = 1'-0"

GENERAL SHEET NOTES

- WHERE TELEDATA OUTLET SYMBOL IS SHOWN PROVIDE BACK BOX AND CONDUIT ROUGH IN TO ABOVE ACCESSIBLE CEILING. REFER TO COMMUNICATION ROUGH-IN DETAIL FOR ADDITIONAL INFORMATION.
- COORDINATE ALL TELECOMM DATA DEVICE LOCATION AND MOUNTING HEIGHTS WITH OWNER/ARCHITECT PRIOR TO INSTALLATION.
- PROVIDE TRACER WIRE WITH PULL STRINGS.

ELECTRICAL KEYNOTES

- PROVIDE 1-1/4" CONDUIT FROM FLOOR BOX/POKE-THRU TO TV OUTLET LOCATION FOR DATA AND AV CABLING.
- HEAT DETECTOR IN ELEVATOR SHAFT WITHIN 2FT OF SPRINKLER HEAD. REFER TO ELEVATOR INTERLOCK WITH FIRE ALARM DETAIL FOR ADDITIONAL INFORMATION. COORDINATE LOCATION WITH SPRINKLER PROVIDER.
- PROVIDE JUNCTION BOX AND 3/4" CONDUIT ROUGH IN FOR CAMERA. ROUTE CONDUIT BACK TO IT ROOM. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH OWNER AND SECURITY PROVIDER. IN AREAS WITH NO ABOVE CEILING ROUTE CONDUIT HIGH AND TIGHT TO STRUCTURE ABOVE.
- PROVIDE BOX WITH 1-1/4" CONDUIT WITH TWO (2) HDMI CABLES TO CEILING MOUNTED TV FOR HDMI CONNECTION. COORDINATE WITH OWNER AND ARCHITECT FOR ALL REQUIREMENTS PRIOR TO INSTALLATION. PROVIDE HDMI TERMINATIONS PLATES AND ALL REQUIRED DEVICES FOR A COMPLETE SYSTEM. CEILING DEVICES SHALL BE MOUNTED ABOVE, AT THE STRUCTURE OR CEILING.
- 2"X12" WIRE MESH CABLE TRAY ABOVE ACCESSIBLE CEILING.
- PROVIDE POWER ROUGH IN FOR CARD READER. REFER TO ACCESS CONTROL DETAIL FOR ADDITIONAL INFORMATION.
- (2)-4" EMPTY CONDUITS ROUTED BELOW GRADE FROM TELECOM JUNCTION BOX AND STUBBED UP IN ELECTRICAL ROOM. CAP CONDUITS WITH PULL STRINGS. COORDINATE EXACT LOCATION OF JUNCTION BOX WITH TELECOM SERVICE PROVIDER. PROVIDE TRACER WIRE WITH PULL STRINGS. ROUTE CONDUITS TO SERVICE PROVIDER DEMARC LOCATION. COORDINATE LOCATION WITH SERVICE PROVIDER.
- MOUNT SINGLE BOX AT 15'-0" A.F.G. WITH 1" CONDUIT WITH CAT 6A ROUTED WITHIN STRUCTURE FOR OWNER SUPPLIED EXTERIOR WIFI BOOSTER EQUAL TO CISCO CATALYST 9166 SERIES WITH BRACKET AND ARM. REFER TO MANUFACTURER FOR MOUNTING REQUIREMENTS. PROVIDE BLOCKING AS REQUIRED. COORDINATE EXACT LOCATION WITH OWNER AND ARCHITECT.
- PROVIDE DOUBLE GANG BACK BOX WITH 4" LUG SPACING MATCHING PHONE HARDWARE. REFER TO PHONE MANUFACTURER FOR EXACT MOUNTING REQUIREMENTS. PHONE OWNER SUPPLIED. CONTRACTOR INSTALLED. COORDINATE LOCATION WITH OWNER AND ARCHITECT.
- ROUTE (2)-4" EMPTY CONDUIT TO ABOVE CEILING ON FIRST FLOOR BELOW AND PROVIDE FIRE RATED PENETRATION THRU FIRE WALL. CONDUIT TO STUB OUT WALL TO CABLE TRAY ABOVE CEILING ON FIRST FLOOR.
- ROUTE (1)-1" EMPTY CONDUIT WITH PULL STRINGS TO ROOF FOR COAX CABLE TO ANTENNA. PROVIDE COAX OUTLET WHERE SHOWN. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH OWNER.
- MOUNT SINGLE BOX AT 35'-0" A.F.G. WITH 1" CONDUIT ROUTED TO LOCATIONS SHOWN ON FIRST FLOOR FOR OWNER RELOCATED ANTENNA. PROVIDE BLOCKING AS REQUIRED. COORDINATE EXACT LOCATION WITH OWNER. PROVIDE GROUNDING PER NEC.



1627 MAIN STREET, SUITE 600
KANSAS CITY, MO 64108



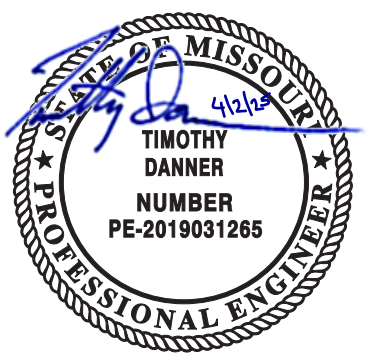
1627 MAIN STREET, SUITE 100
KANSAS CITY, MO 64108



1301 BURLINGTON STREET
NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



03-29-2024

LEES SUMMIT MUNICIPAL AIRPORT AUTHORITY
(LEES SUMMIT, MO)

12	4/4/25	PR 10
11	4/2/25	PR 09
8	11/8/24	PR-07

MARK DATE DESCRIPTION

PROJECT NO: 022-04268
CAD DWG FILE: Lee's Summit - Hangar 2.rvt
DESIGNED BY: SH
DRAWN BY: OH
CHECKED BY: AF
APPROVED BY: TWO
COPYRIGHT 2023

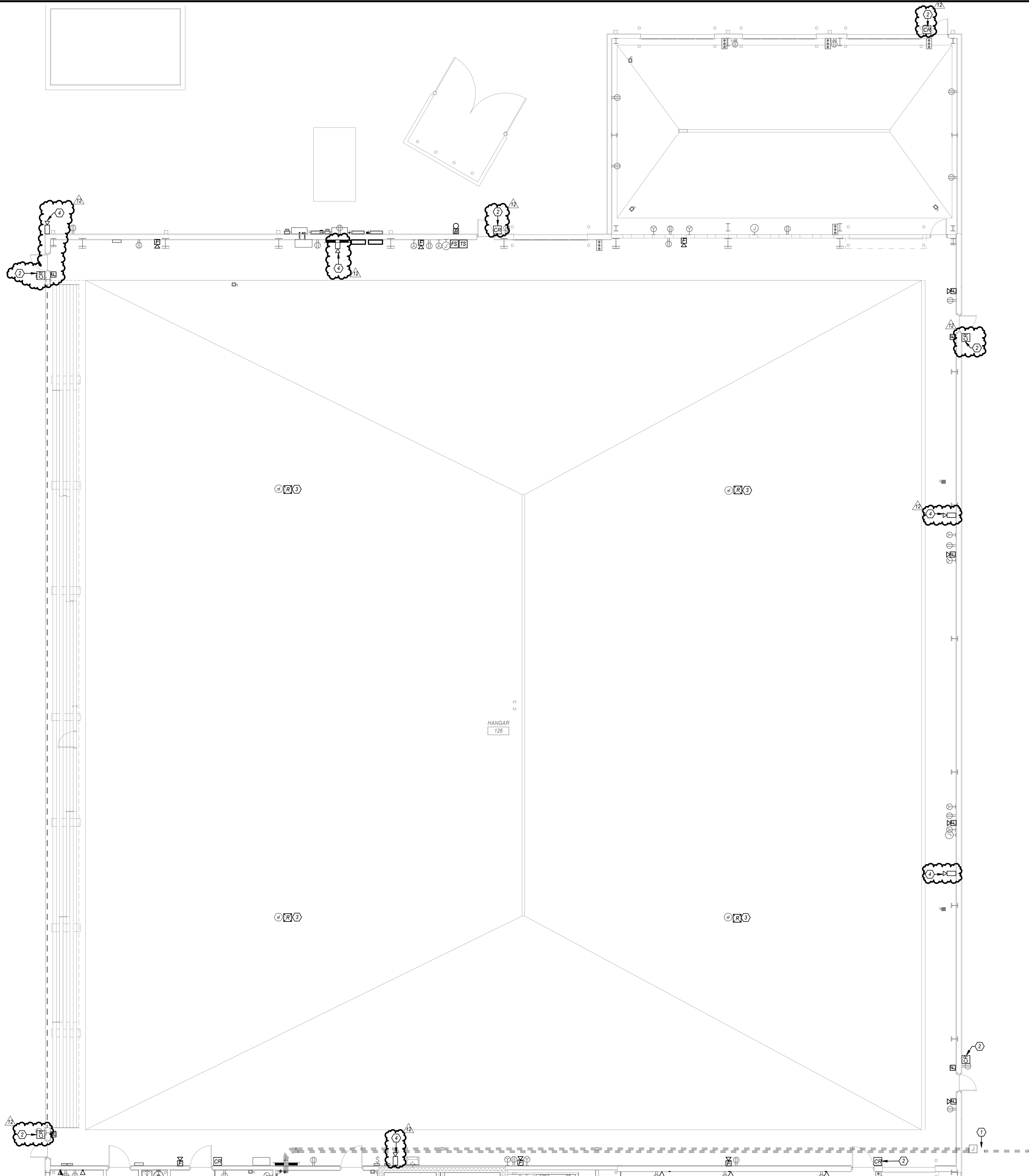
SHEET TITLE

SYSTEMS FLOOR
PLANS

E301

SHEET OF

4/2/2025 8:15:21 AM



ELECTRICAL KEYNOTES

- (2)-4" EMPTY CONDUITS ROUTED BELOW GRADE FROM TELECOM JUNCTION BOX AND STUBBED UP IN ELECTRICAL ROOM. CAP CONDUITS WITH PULL STRINGS. COORDINATE EXACT LOCATION OF JUNCTION BOX WITH TELECOM SERVICE PROVIDER. PROVIDE TRACER WIRE WITH PULL STRINGS. ROUTE CONDUITS TO SERVICE PROVIDER DEMARC LOCATION. COORDINATE LOCATION WITH SERVICE PROVIDER.
- PROVIDE POWER ROUGH IN FOR CARD READER. REFER TO ACCESS CONTROL DETAIL FOR ADDITIONAL INFORMATION.
- PROVIDE FAN SHUT DOWN RELAY TO SHUT FAN DOWN UPON ACTIVATION OF FIRE ALARM SYSTEM.
- PROVIDE JUNCTION BOX AND 3/4" CONDUIT ROUGH IN FOR CAMERA. ROUTE CONDUIT BACK TO IT ROOM. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH OWNER AND SECURITY PROVIDER. IN AREAS WITH NO ABOVE CEILING ROUTE CONDUIT HIGH AND TIGHT TO STRUCTURE ABOVE.



1627 MAIN STREET, SUITE 600
KANSAS CITY, MO 64108



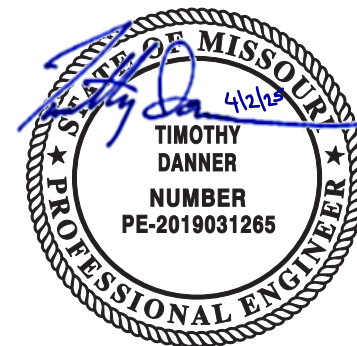
1627 MAIN STREET, SUITE 100
KANSAS CITY, MO 64108



1301 BURLINGTON STREET
NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472



03-29-2024

LEES SUMMIT MUNICIPAL AIRPORT AUTHORITY
LEES SUMMIT, MO

12 4/1/25 PR 10
MARK DATE DESCRIPTION

PROJECT NO: 022-04268
CAD DWG FILE: Lee's Summit - Hangar 2.rvt
DESIGNED BY: SH
DRAWN BY: OH
CHECKED BY: AF
APPROVED BY: TWO
COPYRIGHT 2023

SHEET TITLE

SYSTEMS HANGAR
PLAN

E302

SHEET OF

SYSTEMS HANGAR PLAN

1/8" = 1'-0"

1



LOAD CLASSIFICATIONS	CONNECTE D (VA)	DEMAND FACTOR	DEMAND (VA)		
HVAC	3650 VA	100.00%	3650 VA	CONNECTED LOAD: 252.9 304 MAXIMUM DEMAND: 163.7 197	NOTES: AFCI - ARC FAULT CIRCUIT INTERRUPTION TYPE CIRCUIT BREAKER C# - CONTROL ZONE NUMBER FOR REMOTE CONTROL BMSB - ROUTE CIRCUIT THROUGH BUILDING MANAGEMENT SYSTEM GFCI - GROUND FAULT CIRCUIT INTERRUPTING TYPE CIRCUIT... GPPE - GROUND FAULT PROTECTION EQUIPMENT CIRCUIT BREAKER HLO - HANDLE LOCK ON DEVICE FOR CIRCUIT BREAKER
Lighting	12752 VA	125.00%	15940 VA		
Motor	2829 VA	125.00%	3536 VA		
Non Concurrent	11634 VA	100.00%	11634 VA		
Other	25870 VA	100.00%	25870 VA		
Receptacle	196206 VA	52.55%	103103 VA		

[illegible]

Motor	40111 VA	109.95%	44102 VA	Future Load Growth:
Non Concurrent	23268 VA	100.00%	23268 VA	Min. Panel Rating...
Other	33980 VA	100.00%	33980 VA	Adjusted Demand...
Power	1712 VA	100.00%	1712 VA	Total Adjusted Deman...
Receptacle	402182 VA	51.24%	206091 VA	

1627 MAIN STREET, SUITE 600
KANSAS CITY, MO 64108



1627 MAIN STREET, SUITE 100
KANSAS CITY, MO 64108



1301 BURLINGTON STREET
NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

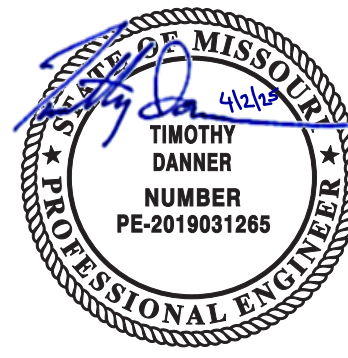
EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472

NOTE	LOAD DESCRIPTION	AMP	P	KCT. NO.	A	B	C	KCT. NO.	P	AMP	LOAD DESCRIPTION	NOTE	
HLO	FIRE ALARM CONTROL PANEL	20 A	1	1	0	200		2	1	20 A	ELEVATOR CAB LIGHTING		
	EXTERIOR SIGN LIGHTING	20 A	1	5		360	720	4	1	20 A	RECEPT. JANOTOR/STORAGE: 115/116		
	RECEPT: MECHELEC - 222	20 A	1	3				540	850	6	1	15 A	GF-2
	RECEPT: VENDING ROOM - 108	20 A	1	7	540	1000		8	1	20 A	RECEPT DISHWASHER		
	RECEPT DISPOSAL	20 A	1	9		1000	1080	12	1	20 A	RECEPT: RM - 114		
	RECEPT LOBBY/EASTRI/III (E - 100)	20 A	1	17				1080	1400	12	1	20 A	RE-5

NOTE	LOAD DESCRIPTION	AMP	P	CKT. NO.	A	B	C	CKT. NO.	P	AMP	LOAD DESCRIPTION	NOTE
	EXTERIOR LIGHTING	20 A	1	1	152 1692			2	1	20 A	LI-1	
	LTG HANGER NORTH	20 A	1	3		4180 943		4	3	20 A	VACUUM PUMP 1	
	CU-1a	25 A	3	5			4567 943	6	--	--		--
--	--	--	--	7	4567 943			8	--	--		--
--	--	--	--	9		4567 4567		10	3	25 A	CU-1b	
	CU-11c	75 A	3	11			4567 4567	12	3	25 A	CU-1c	

NOTE	LOAD DESCRIPTION	AMP	P	CKT. NO.	A	B	C	CKT. NO.	P	AMP	LOAD DESCRIPTION	NOTE
GFCI	RECEPT: 2nd FLR DRINK FOUNTAIN	20 A	1	1	360	540		2	1	20 A	RECEPT IT/MECH/ELEC - 215	
	RECEPT: BIKT RM - 214	20 A	1	3		720	360		4	1	0 A	RECEPT - IT QUAD
	RECEPT: PILOT LOUNGE - 216	20 A	1	5			900	1000	6	1	20 A	RECEPT - WORKROOM PRINTER
	DF-1	20 A	2	7	0	0			8	2	20 A	DF-2
						0	0		10			
									12			
	BEFCPT: BESTRoom - 200/210	20 A	1	11			360	540	12	1	20 A	BEFCPT: RM 211

DATE	LOAD DESCRIPTION	AMP	P	CKT. NO.	A	B	C	CKT. NO.	P	AMP	LOAD DESCRIPTION	NOTE
	RP-1	20 A	1	1	44	90		2	1	20 A	DEF-1	
	RECEPT: INFRARED HEATERS	20 A	1	3		1440	200		4	20 A	WEST HANGER SIGN LYG	
	DAMPER	20 A	1	5				6	1	20 A	RECEPT: WATER FOUNTAIN - 108	GFCI
	GW-1	20 A	1	7	180	1080		3	7	20 A	CHANGES AREAS	
	WEST HANGER SIGN LYG	20 A	1	9		300	720	10	1	20 A	SLIDING DOORS	12
	RECEPT: WASHERS & DRYERS	20 A	1	11				1000	90	12	200	SLIDING DOORS



03-29-202.

LEES SUMMIT MUNICIPAL AIRPORT AUTHORITY
LEES SUMMIT, MO

12	4/4/25	PR 10
----	--------	-------

5	8/7/24	PR-06
MARK	DATE	DESCRIPTION

CAD DWG FILE: Lee's Summit - Hangar 2.rvt

DESIGNED BY: SH

CHECKED BY: AF

APPROVED BY: TWD

SHEET TITLE

ELECTRICAL SCHEDULES

E702

[illegible][illegible]

PANEL <u>LP1-2</u>				PHASE BUS RATING <u>225 A</u>						LOCATION <u>IT CLOSET / MECH / ELEC...</u>			
VOLTAGE <u>208Y/120V 3PH</u>				AIC RATING <u>10K</u>						MOUNTING <u>SURFACE</u>			
MCB OR MLO <u>MLO</u>										NO. OF POLES <u>32</u>			
FED FROM <u>DP-1</u>													
NOTE	LOAD DESCRIPTION	AMP	P	KCT. NO.	A	B	C	KCT. NO.	P	AMP	LOAD DESCRIPTION	NOTE	
	RECEPT: 2nd FLOOR STAIR 1 - 203	20 A	1	3	180	850		2	1	15 A	GF-10		
	RECEPT: CONFERENCE - 220A	20 A	1	3		540	1000		4	1	20 A	RECEPT: 2nd REELS 2	
	RECEPT: CONFERENCE - 220	20 A	1	5			900	900	6	1	20 A	RECEPT: RM 219	
	RECEPT: 2nd REELS 1	20 A	1	7	1180	1115			8	1	15 A	GF-11	
	GF-12	20 A	1	9		1500	88		10	2	20 A	DF-4	
	GF-14	20 A	1	11			1500	88	12	--		--	
	DF-3	20 A	2	13	88	850			14	1	15 A	GF-13	
--		--	--	15		88	850		16	1	15 A	GF-8	
	GF-9	15 A	1	17			850	1000	18	1	20 A	TV DRONE PAD - 218	
	TV CONFERENCE - 220	20 A	1	19	1000	360		20	1	20 A	RECEPT - IT QUAD		
	TV DRONE PAD - 218	20 A	1	21		180	720		22	1	20 A	RECEPT: 2nd IT ROOM	
	EF-1	20 A	1	23				1339	360	24	1	20 A	RECEPT - IT QUAD
	SPARE	20 A	1	25	0	0			26	1	20 A	SPARE	
	SPARE	20 A	1	27		0	0		28	1	20 A	SPARE	
	SPARE	20 A	1	29			0	0	30	1	20 A	SPARE	
	SPARE	20 A	1	31	0	0			32	1	20 A	SPARE	
	SPARE	20 A	1	33		0	0		34	1	20 A	SPARE	
	SPARE	20 A	1	35					36	1	20 A	SPARE	
	SPARE	20 A	1	37	0	0			38	3	30 A	SPD	
	SPARE	20 A	1	39		0	0		40	--		--	
	SPARE	20 A	1	41			0	0	42	--		--	
					KVA AMPS	5.6225 48	KVA AMPS	4.965 41	KVA AMPS	6.9365 59			
LOAD CLASSIFICATIONS		CONNECTE D (VA)	DEMAND FACTOR	DEMAND (VA)									
HVAC	6227 VA	100.00%	6227 VA										
Motor	1680 VA	120.37%	2025 VA										
Other	360 VA	100.00%	360 VA										
Power	1127 VA	100.00%	1127 VA										
Receptacle	7960 VA	100.00%	7960 VA										
					CONNECTED LOAD: 17.524 49								
					MAXIMUM DEMAND: 17.899 52								
					NOTES: AFCI - ARC FAULT CIRCUIT INTERRUPTION TYPE CIRCUIT BREAKER C24 - CONTROL ZONE NUMBER FOR REMOTE CONTROL BMS+ - ROUTE CIRCUIT THROUGH BUILDING MANAGEMENT SYSTEM GFCI - GROUND FAULT CIRCUIT INTERRUPTING TYPE CIRCUIT... GFPE - GROUND FAULT PROTECTION EQUIPMENT CIRCUIT BREAKER HLO - HANDLE LOCK ON DEVICE FOR CIRCUIT BREAKER HPL- PADLOCK ATTACHMENT TO LOCK C/B HANDLE IN OPEN...								