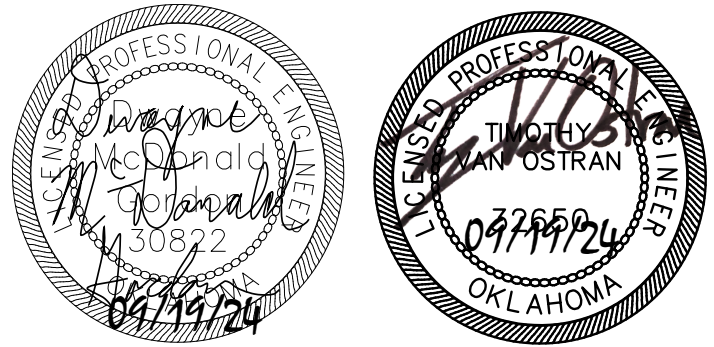


Construction Bulletin # 04

Client: Abla Griffin Partnership
 Project Name: Red Oak Campus Renovation
 Project Number: 2024-02321-00

September 19, 2024

Requested by: Owner
 Contractor:
 Salas O'Brien:



To: Mike Abla, Clay Griffin

This Construction Bulletin is issued to:

- Offer additional information for clarification or supplemental drawings for layout assistance.
- Request cost and time impact to initiate a change to the Contract Documents. Owner approval is required, do not commence with revisions unless directed in writing. Avoid Work in areas that may be affected by proposed change until approved or rejected. Once approved, forward Change Order documentation as required by the Contract Documents.
- Direct a required change in the Contract Documents. Proceed with change(s) as indicated. Forward Change Order documentation as required by the Contract Documents.
- Response to RFI _____.

Item No.	Description	Attachment
1	Refer to clouds and deltas for changes.	M101
2	Refer to clouds and deltas for changes.	M201
3	Refer to clouds and deltas for changes.	M601
4	Refer to clouds and deltas for changes.	E101
5	Refer to clouds and deltas for changes.	E201
6	Refer to clouds and deltas for changes.	E202
7	Refer to clouds and deltas for changes.	E601
8	Refer to clouds and deltas for changes.	T201

END OF CB-04



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MA
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MAY 2024
date

revisions	
1	ADDENDUM #1
2	CB-3
3	9-23-24

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RED OAK
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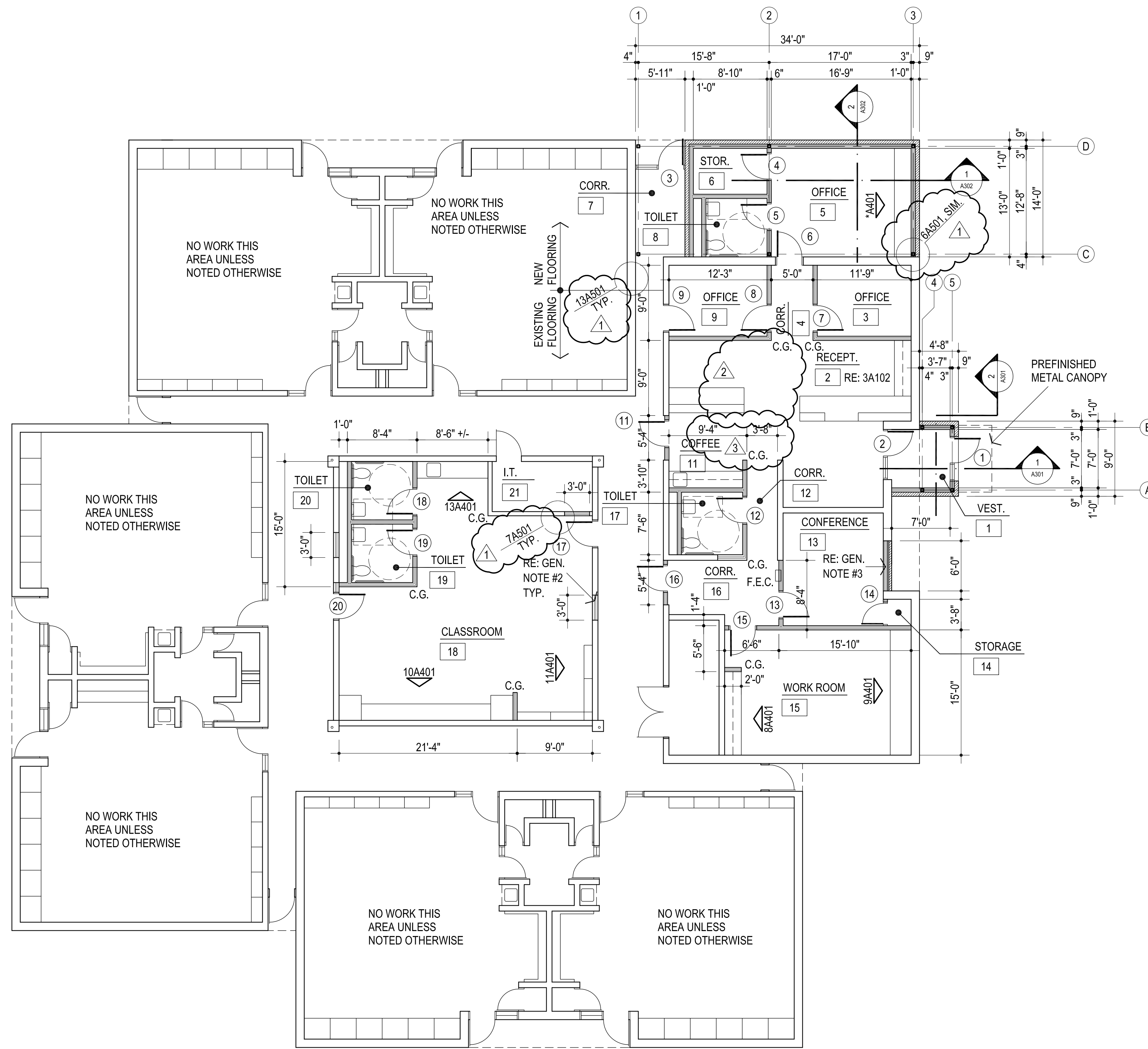
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A102

FLOOR PLAN

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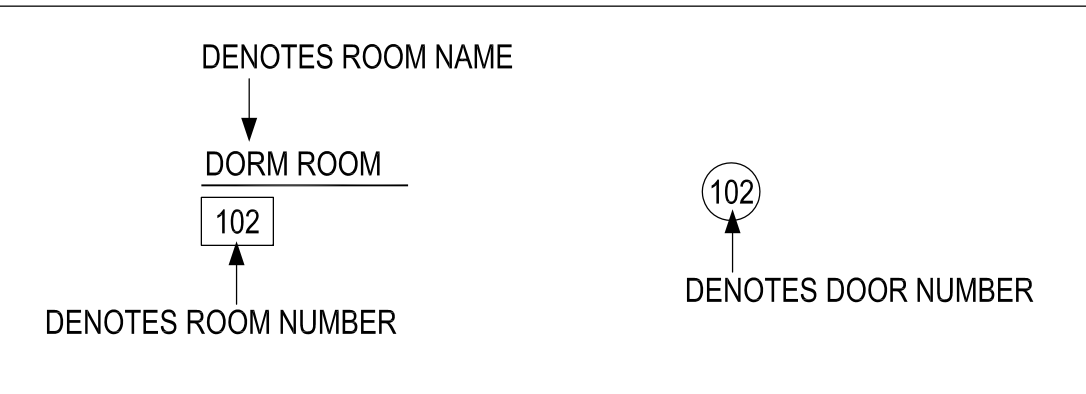
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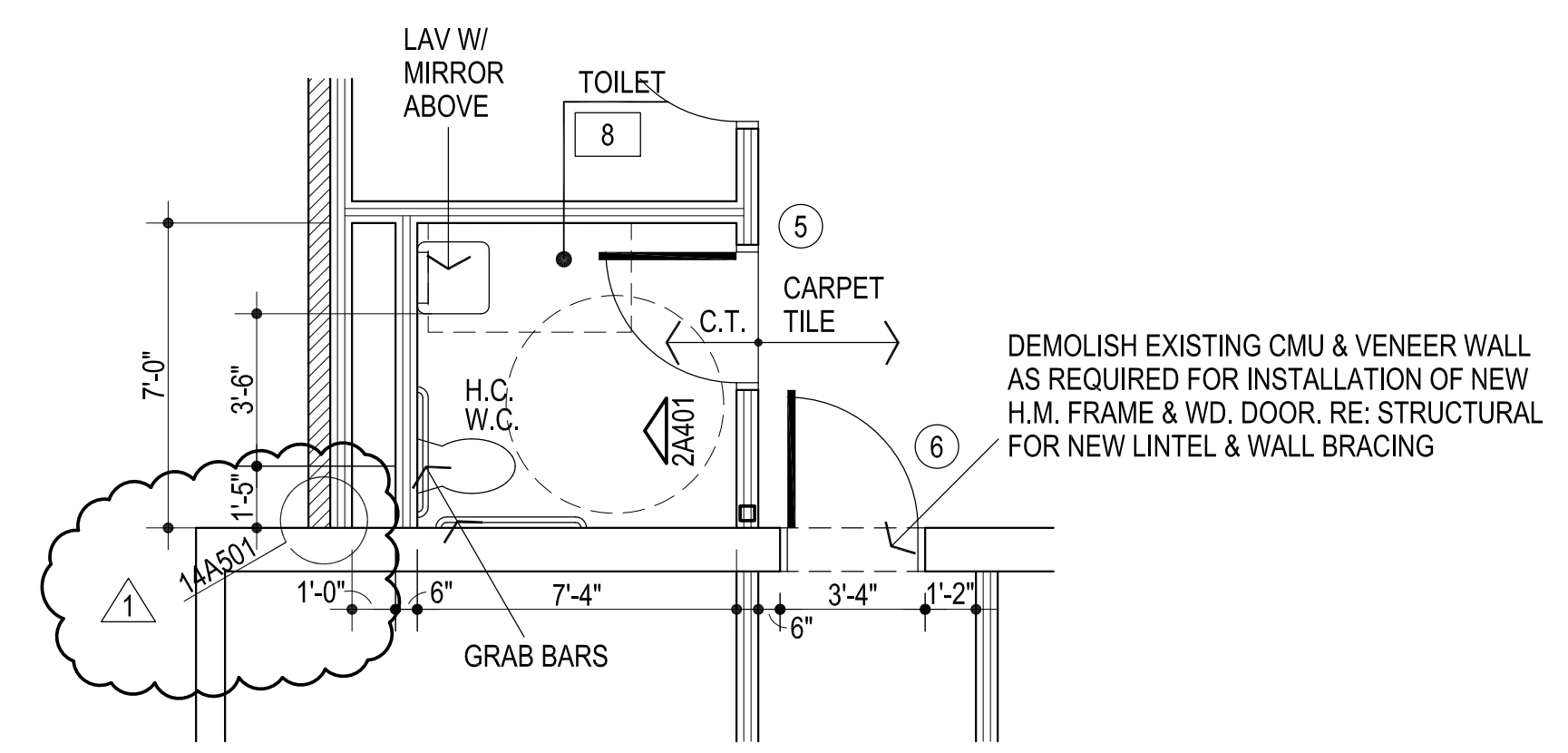
1 FLOOR PLAN
1/8" = 1'-0"

- GENERAL NOTES:
- F.E.C. - FIRE EXTINGUISHER AND CABINET
 - REMOVE EXISTING H.M. FRAME & WD. DOOR AND PREPARE OPENING TO RECEIVE NEW STUD IN FILL WITH GYP. BD EACH SIDE MATCH EXISTING WALL THICKNESS COORDINATE WITH ARCHITECT. PAINT ENTIRE WALL AT EXISTING CORRIDOR SIDE. RE: ROOM FINISH SCHEDULE
 - REMOVE EXISTING H.M. DOOR & FRAME AND PREPARE OPENING TO RECEIVE NEW STUD IN FILL WITH GYP. BD & BRICK VENEER MATCH EXISTING WALL THICKNESS COORDINATE WITH ARCHITECT

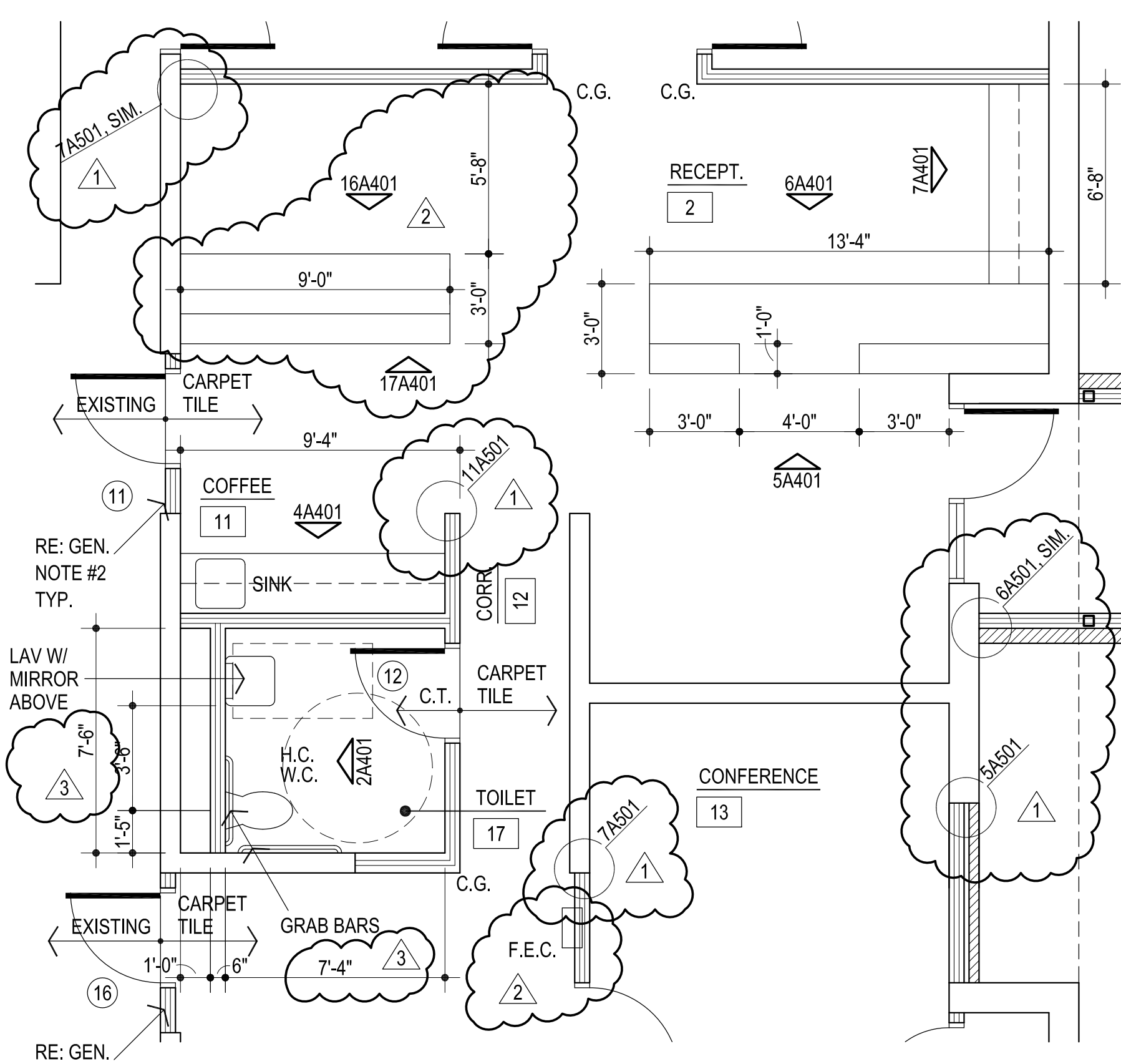
- PROVIDE WOOD BLOCKING AT ALL WALL MOUNTED ITEMS IN NEW STUD WALLS, RE: 21A501
- ADD CORNER GUARDS (C.G.) AT ALL INTERIOR LOCATIONS NOTED



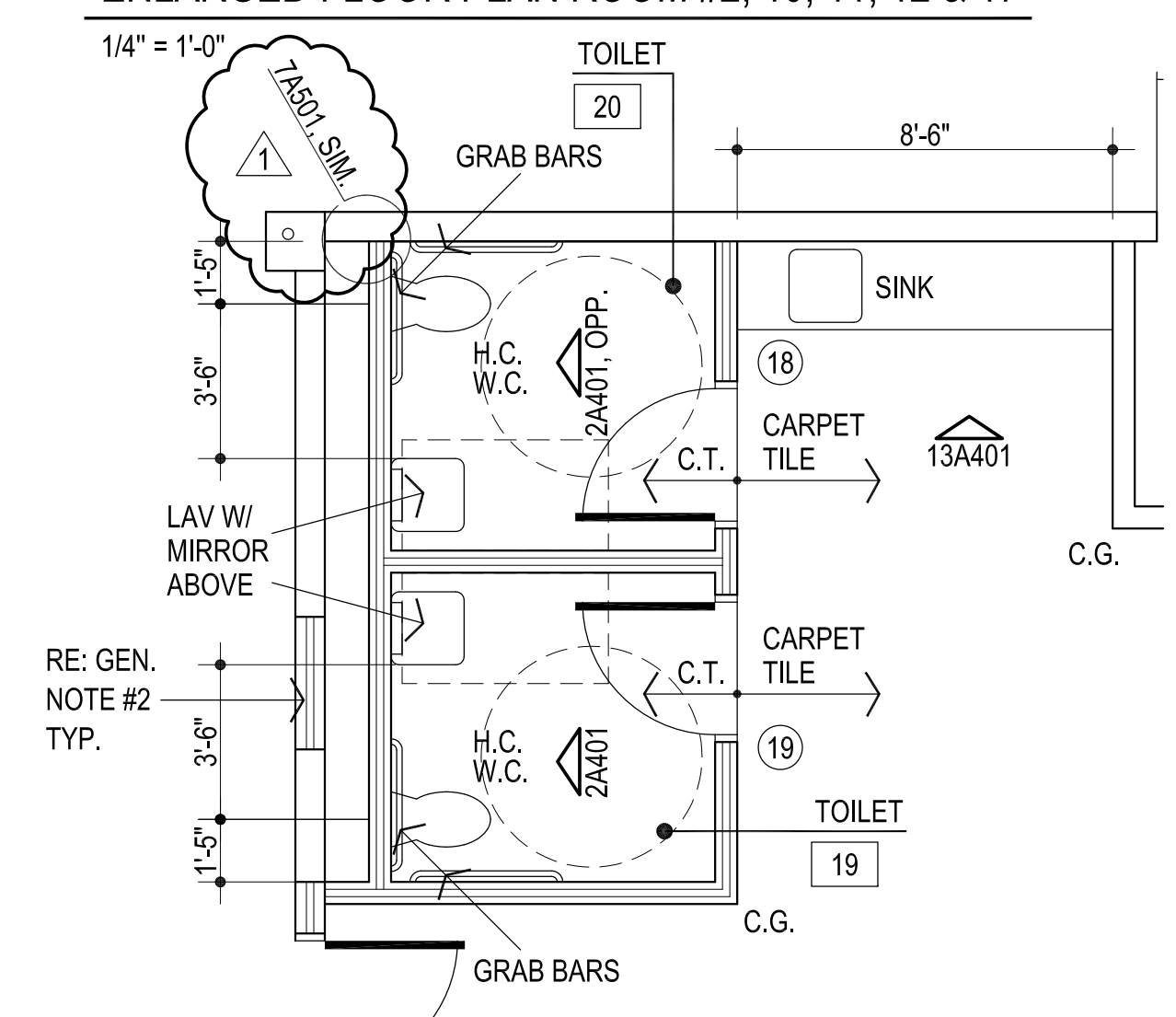
NOTE: CONTRACTOR TO VERIFY THAT THE MOUNTING HEIGHTS OF ALL WALL MOUNTED FIXTURES (I.E. PLUMBING FIXTURES, GRAB BARS, MIRRORS, ETC.) MEET ALL APPLICABLE CODES & STANDARDS PRIOR TO INSTALLATION.



2 ENLARGED FLOOR PLAN ROOM #8
1/4" = 1'-0"



3 ENLARGED FLOOR PLAN ROOM #2, 10, 11, 12 & 17
1/4" = 1'-0"



4 ENLARGED FLOOR PLAN ROOM #19 & 20
1/4" = 1'-0"



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RED OAK
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SECURITY UPGRADES

sheet no:

M101

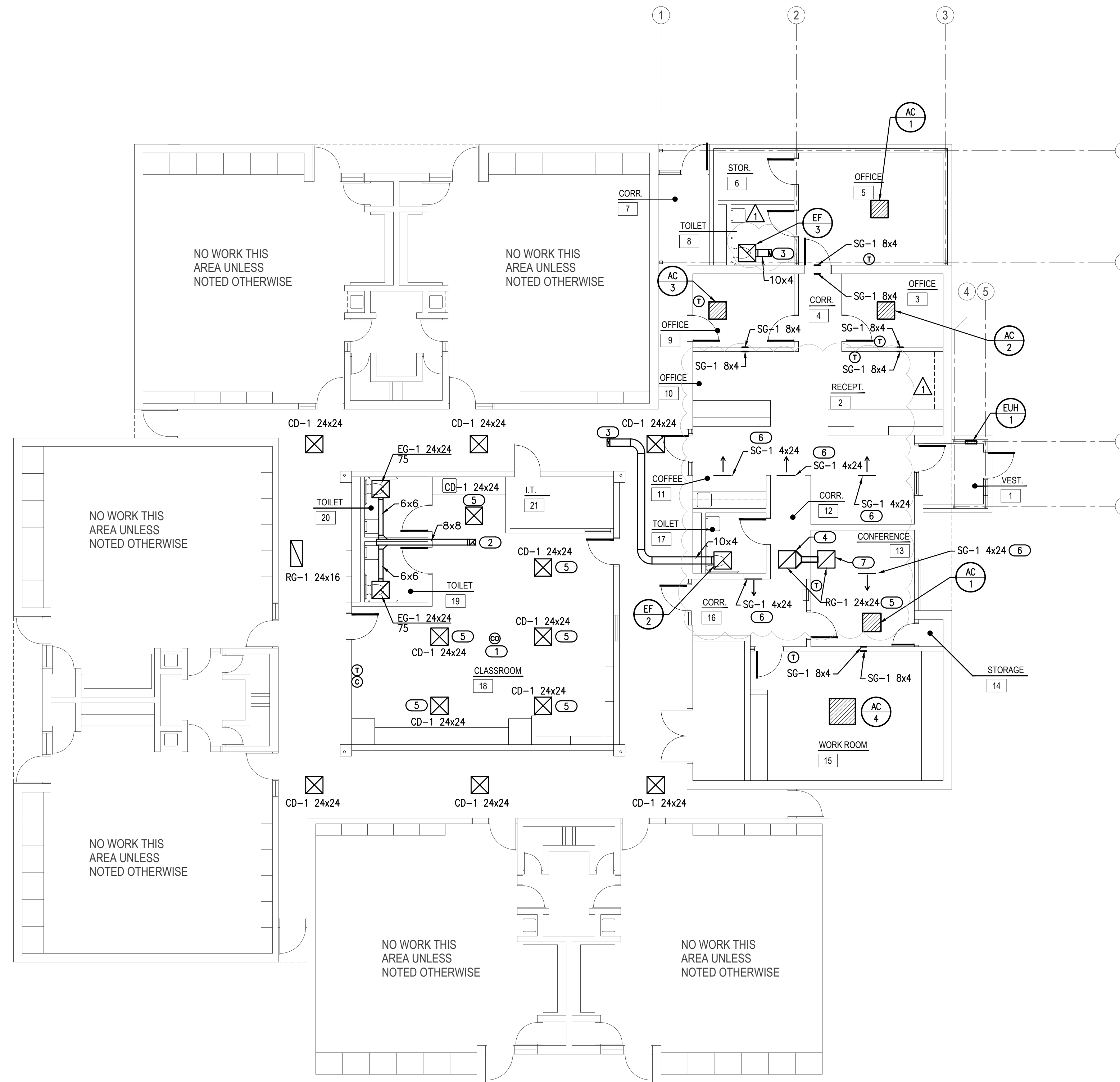
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GENERAL NOTES

- COORDINATE INSTALLATION OF EQUIPMENT AND DUCTWORK WITH ALL TRADES.
- COORDINATE LOCATION OF THERMOSTATS WITH E.C. ROUGH-IN BY E.C.
- M.C. SHALL PROVIDE CARBON MONOXIDE SENSORS WHERE NEEDED PER CODE FOR EXISTING EQUIPMENT THROUGHOUT THE ENTIRE BUILDING. M.C. IS RESPONSIBLE FOR SURVEYING ENTIRE BUILDING AND LOCATING FUEL BURNING HVAC EQUIPMENT FOR SENSOR LOCATIONS. COORDINATE WITH E.C. FOR POWER CONNECTIONS.
- THERMOSTAT EXISTING TO REMAIN. M.C. SHALL COORDINATE WITH G.C. IN NEW LOCATION IF EXISTING WALL STAT IS DEMOLISHED.
- ALL DOORS IN ADMIN AREA SHALL BE UNDERCUT IN LIEU OF UNDERCUT LOUVER ON DOOR IS REQUIRED. COORDINATE WITH ARCHITECT AND G.C. FOR FINAL DIRECTION.
- ROUTE CONDENSATE LINE TO THE NEAREST OPEN SITE DRAIN. SLOPE PER CODE.
- CASSETTE UNIT SHALL BE A MAXIMUM HEIGHT OF 10". ANY MANUFACTURER UNITS HIGHER THAN 10" WILL NOT FIT IN LIMITED CEILING SPACE. M.C. TO VERIFY PRIOR TO PURCHASE AND INSTALLATION THE MAX HEIGHT OF CASSETTE IN CEILING SPACE.

KEYED NOTES

- CARBON MONOXIDE DETECTOR TO BE INSTALLED ACCORDING TO ALL APPLICABLE CODES. DETECTOR SHALL BE INSTALLED CENTRALLY ON CEILING. ALSO INCLUDE BATTERY BACKUP IN EVENT PRIMARY POWER IS INTERRUPTED. ALARM SIGNAL SHALL BE ROUTED TO ADMINISTRATION OFFICE. COORDINATE WITH E.C. WITH PRIMARY POWER CONNECTION AND SYSTEM CONNECTION.
- ROUTE 8x8 DUCT UP TO CONNECT TO THROAT OPENING OF EXHAUST FAN.
- ROUTE 10x4 DUCT UP TO CONNECT TO THROAT OPENING OF ROOF CAP.
- M.C. SHALL INSTALL BYPASS DUCTWORK AND MOTORIZED DAMPER CONNECTING SUPPLY AND RETURN DUCTWORK.
- REBALANCE NEW GRILLE CFM.
- REBALANCE NEW SIDEWALL GRILLE CFM.
- RETURN DUCT SHALL ROUTE BETWEEN CMU WALL AND SUPPLY DUCT TO THEN TRANSITION TO CONNECT TO RETURN PLENUM. SIZE RETURN DUCT TO MAXIMIZE PLENUM SPACE WITH MINIMUM OF 8"x8".



1 MECHANICAL DUCTWORK PLAN

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



Salas O'Brien
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Norman, OK 73072
Salas O'Brien Registration: CA# 7058
Expiration Date: 6/30/2023
Salas O'Brien Project Number: 2024-02321

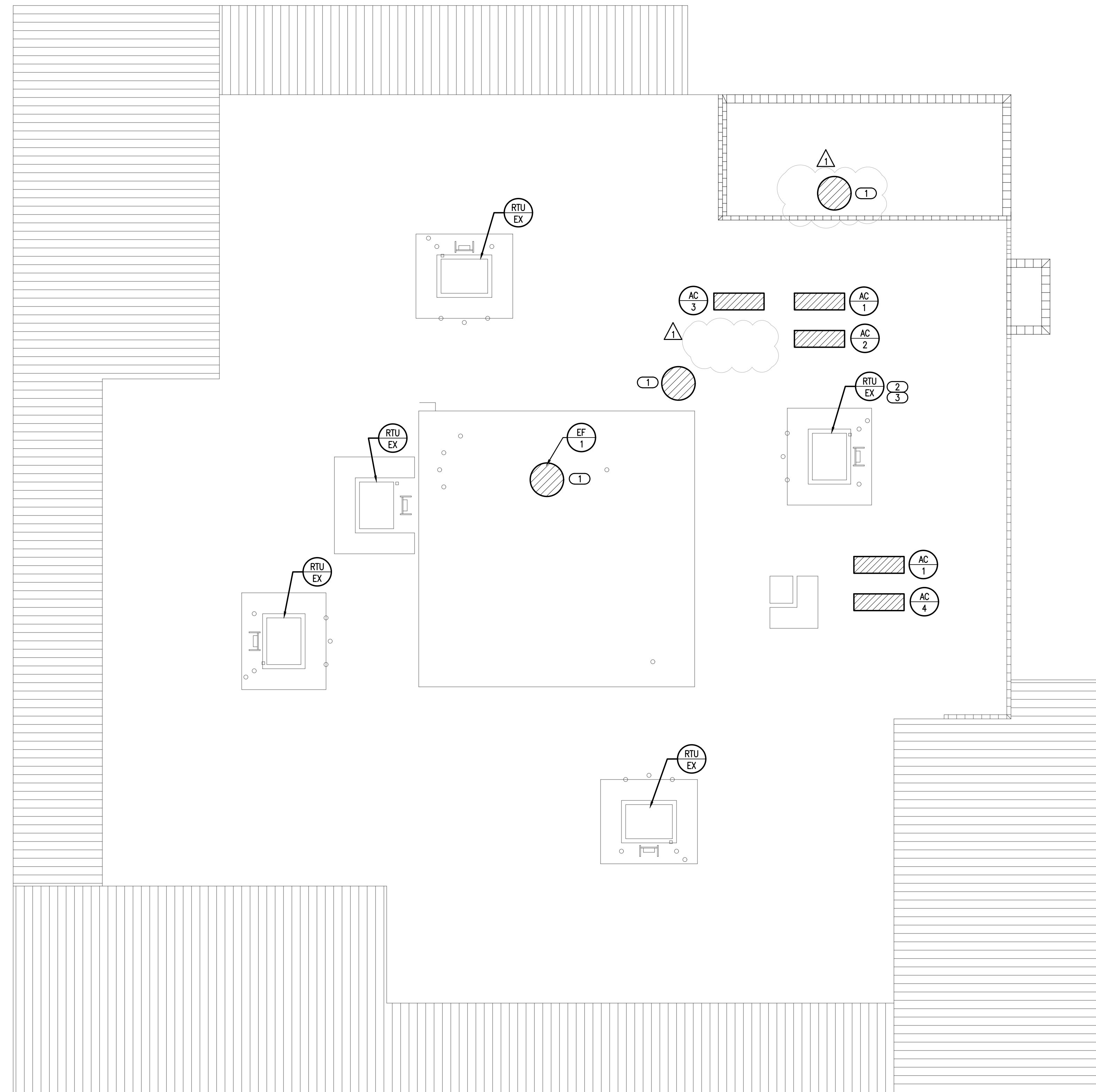


GENERAL NOTES

1. ALL ROOF TOP EQUIPMENT TO BE LOCATED A MINIMUM 10'-0" AWAY FROM ROOF EDGE.
2. MAINTAIN A MINIMUM OF 10'-0" HORIZONTAL CLEARANCE BETWEEN ALL EXHAUST OUTLETS AND ANY FRESH AIR INTAKES.
3. ALL ROOF SUPPORT SYSTEMS ARE TO BE MANUFACTURED FOR THE ROOF MATERIAL/SYSTEM TO BE INSTALLED. REFER TO ARCHITECTURAL PLANS FOR THE ROOF SYSTEM, CURB INSTALLATION TO BE WARRANTED BY ROOFING CONTRACTOR.

KEYED NOTES

- 1 ROOF CAP, M.C. SHALL PROVIDE CURB AND ROOF CAP GREENHECK GRSI OR APPROVED EQUAL.
- 2 M.C. SHALL PROVIDE AND INSTALL RAWAL APR CONTROL DEVICE TO BE RETROFITTED IN REFRIGERANT SYSTEM FOR MODULATION CAPABILITIES.
- 3 M.C. SHALL REBALANCE EXISTING AIRFLOW TO LOWEST SETTING BASE ON 350 CFM PER TON OF COOLING.



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1 MECHANICAL ROOF PLAN

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



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GRILLE, REGISTER, AND DIFFUSER SCHEDULE					
PLAN SYMBOL	DESCRIPTION	MANUFACTURER & MODEL NO.	MATERIAL	FINISH	NOISE CRITERIA
CD-1	SQUARE FACE, ROUND NECK, 4-WAY DEFLECTION CEILING DIFFUSER, SPRING LOCK INNER CORE, FOR LAY-IN CEILING INSTALLATION.	PRICE SCD (4C)	STEEL	WHITE	-
SG-1	DOUBLE DEFLECTION SIDEWALL GRILLE, ADJUSTABLE DEFLECTION BLADES, 3/4" O.C. FLAT FRAME WITH 1 1/4" MARGIN, HORIZONTAL FRONT	PRICE 520	STEEL	COLOR BY ARCHITECT	-
RG-1	FIXED CORE OF 1/2"x1/2"x1/2" FABRICATED ALUMINUM SQUARES, FLAT FRAME WITH 1 1/4" MARGIN, FOR CEILING INSTALLATION.	PRICE 80	ALUMINUM	WHITE	-
EG-1	FIXED CORE OF 1/2"x1/2"x1/2" FABRICATED ALUMINUM SQUARES, FLAT FRAME WITH 1 1/4" MARGIN, FOR CEILING INSTALLATION.	PRICE 80	ALUMINUM	WHITE	-

NOTES:
SEE PLANS FOR QUANTITY AND SIZES.
M.C. TO FIELD VERIFY CEILING TYPE FOR ALL GRD BEFORE PURCHASING EQUIPMENT. PROVIDE REQUIRED MOUNTING.

DUCTWORK/INSULATION SCHEDULE												
SYSTEM	LOW PRESSURE SEAL			MED. PRESS.		HIGH PRESS.		INSULATION				NOTES
	MAX. PRES.	A	B	MAX. PRES.	SEAL A	MAX. PRES.	SEAL A	INTERNAL	THICKNESS	EXTERNAL	THICKNESS	
EXHAUST AIR	2"	-	X	-	-	-	-	NO	-	YES	2" FSK	-

NOTES:

MINI SPLIT HEAT PUMP SCHEDULE - INDOOR & OUTDOOR UNIT															
AC #	NOMINAL TON	OUTDOOR UNIT					INDOOR UNIT							NOTES	
		ELEC. CHAR	SEER	MCA	MOP	COMPRESSOR TYPE	MANUFACTURER & MODEL NUMBER	COOLING/HEATING	CFM	MCA	MOP	TYPE	CONDENSATE PUMP		MANUFACTURER & MODEL NUMBER
1	1.5	208/1	20.5	20	30	INVERTER	LG LUU180HV	BOTH	388	20	30	CASSETTE	YES	LG LCN188HV4	ALL
2	1.0	208/1	19.4	12.3	15	INVERTER	LG LUU120HV	BOTH	247	12.3	15	CASSETTE	YES	LG LCN128HV4	ALL
3	0.75	208/1	20.2	11.9	15	INVERTER	LG LUU090HV	BOTH	230	11.9	15	CASSETTE	YES	LG LCN098HV4	ALL
4	2	208/1	20	22	30	INVERTER	LG LUU240HV	BOTH	600	22	30	CASSETTE	YES	LG LCN249HV	ALL

NOTES: M.C. IS RESPONSIBLE FOR PROVIDING ALL NECESSARY DIMENSION, ELECTRICAL, MECHANICAL, AND STRUCTURAL ALTERATIONS NECESSITATED BY PROVIDING ALTERNATE EQUIPMENT.
1. M.C. PROVIDE DISCONNECTS FOR INSTALLATION BY E.C.
2. PROVIDE AND INSTALL CONDENSATE PUMP. ROUTE CONDENSATE TO NEAREST OPEN SITE.
3. PROVIDE CONDENSER COIL HAIL GUARD.
4. M.C. SHALL PROVIDE HARD WIRED THERMOSTAT.
5. INDOOR UNIT POWERED SEPARATELY FROM OUTDOOR UNIT. COORDINATE POWER REQUIREMENTS WITH E.C.

EXHAUST FAN SCHEDULE															
EF #	LOCATION	SYSTEM	CFM	SP	FAN RPM	MOTOR H.P.	ELEC CHAR	AMPS	DAMPER BDD OR MOD	DRIVE	FAN TYPE	INTERLOCK/CONTROL	WEIGHT	MANUFACTURER & MODEL NUMBER	NOTES
1	ROOF	RR	150	0.5	1254	1/4	120/1	-	MOD	DIRECT	PRV	LIGHT	45	GREENHECK G-097-VG	1-4
2	CEILING	RR	75	0.3	900	FRAC.	120/1	-	MOD	DIRECT	CEILING	LIGHT	12	GREENHECK SP-A90	1-4
3	CEILING	RR	75	0.3	900	FRAC.	120/1	-	MOD	DIRECT	CEILING	LIGHT	12	GREENHECK SP-A90	1-4

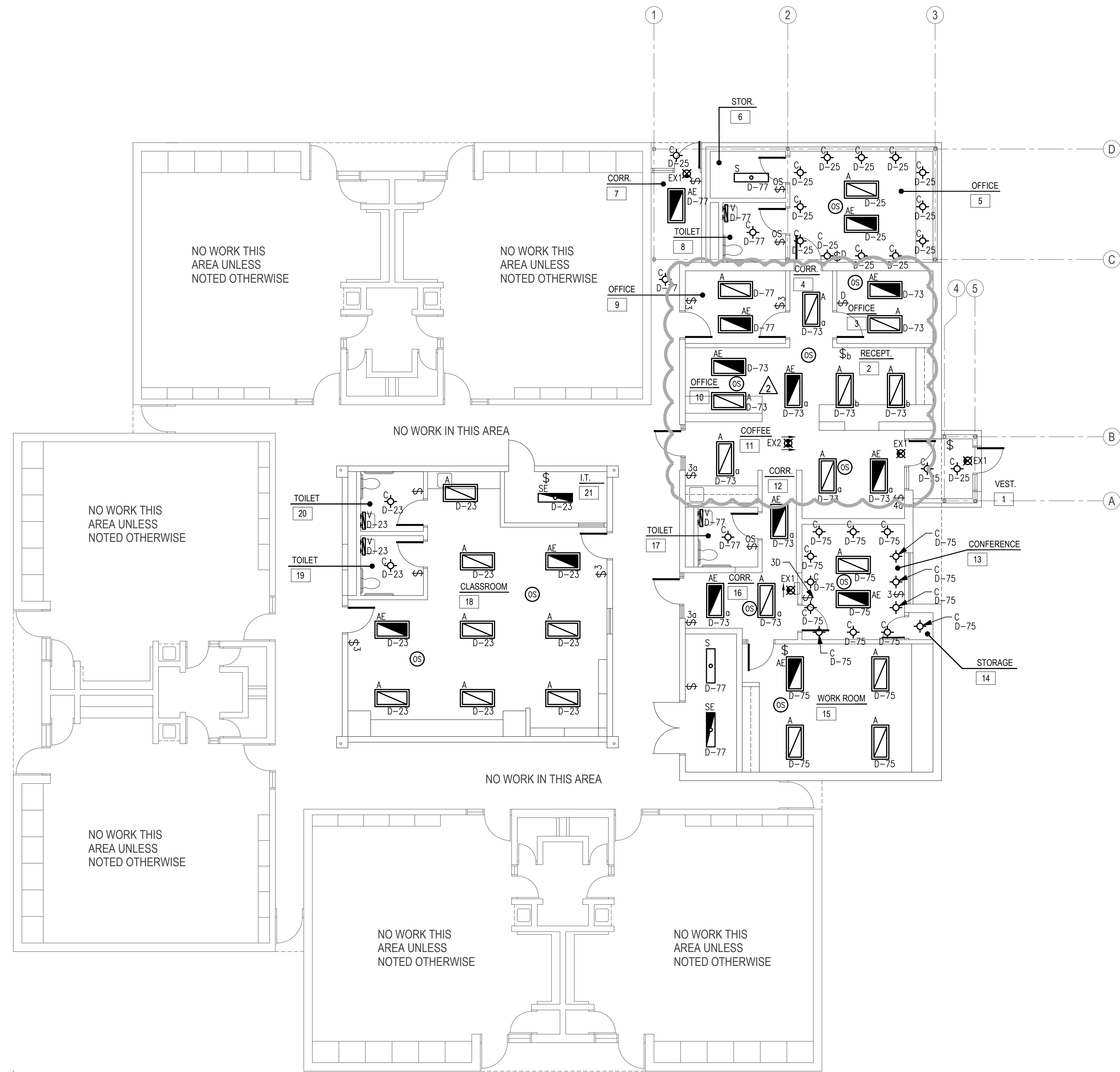
NOTES:
M.C. IS RESPONSIBLE FOR PROVIDING ANY AND ALL NECESSARY DIMENSIONAL, ELECTRICAL, MECHANICAL, AND STRUCTURAL ALTERATIONS NECESSITATED BY PROVIDING ALTERNATE EQUIPMENT.
1. PROVIDE ELECTRONIC SPEED CONTROL MOUNTED ABOVE ACCESSIBLE CEILING.
2. M.C. SHALL PROVIDE LOW VOLTAGE MOTORIZED DAMPER.
3. OPERATION OF DEVICE ON OCCUPIED MODE OF RTU OR SWITCH WITH LIGHTS. SEE INTERLOCK/CONTROL COLUMN FOR TYPE.
4. PROVIDE WEATHER HOOD AND BIRD SCREEN.

ELECTRIC FAN FORCED HEATER SCHEDULE												
ETH #	ROOM NO.	CFM	WALL OR CEILING	KW	MOUNTING	ELECTRICAL CHAR	AMPS	SPEEDS	CONTROL	RPM	MANUFACTURER & MODEL NUMBER	NOTES
1	VEST	100	WALL	1.5	RECESSED	208/1	7.2	1	INT STAT	-	BERKO FRC4024	1-3

NOTES:
M.C. IS RESPONSIBLE FOR PROVIDING ANY AND ALL NECESSARY DIMENSIONAL, ELECTRICAL, MECHANICAL, AND STRUCTURAL ALTERATIONS NECESSITATED BY PROVIDING ALTERNATE EQUIPMENT.
1. PROVIDE INTERNAL THERMOSTAT.
2. RECESSED MOUNTED UNIT. PROVIDE RECESSED MOUNTING KIT.
3. PROVIDE BUILT-IN DISCONNECT.
4. SURFACE MOUNTED UNIT. PROVIDE SURFACE MOUNTING KIT.
5. PROVIDE WALL MOUNTING BRACKET.



- ### LIGHTING GENERAL NOTES
- OCCUPANCY SENSOR LOCATIONS SHOWN ARE FOR DESIGN INTENT ONLY. LOCATE OCCUPANCY SENSORS PER MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
 - CONNECT BATTERY PACKS TO UNSWITCHED HOT OF LOCAL LIGHTING CIRCUIT.
 - COORDINATE WITH ALL ASSOCIATED TRADES FOR THE EXACT LOCATIONS OF LIGHT FIXTURES WITH HVAC EQUIPMENT AND OTHER DEVICES/EQUIPMENT.
 - COORDINATE WITH THE ARCHITECT, OWNER, AND ASSOCIATED TRADES FOR THE EXACT HEIGHT/LOCATION OF EXTERIOR MOUNTED LIGHTING FIXTURES PRIOR TO ROUGH-IN.
 - LABEL SWITCH PLATES AND J-BOXES WITH CIRCUIT PER SPECS.
 - COORDINATE LIGHT SWITCHES WITH THERMOSTATS AND OTHER WALL MOUNT DEVICES.



1 ELECTRICAL LIGHTING PLAN

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

△ FULL SHEET

- JV
drawn by
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MAY 2024
date
- revisions
- △ 8/22/24 RFI-07
 - △ 9/20/24 CB-04

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Salas O'Brien

2600 Van Buren St., Suite 2635
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Salas O'Brien Project Number: 2024-02321

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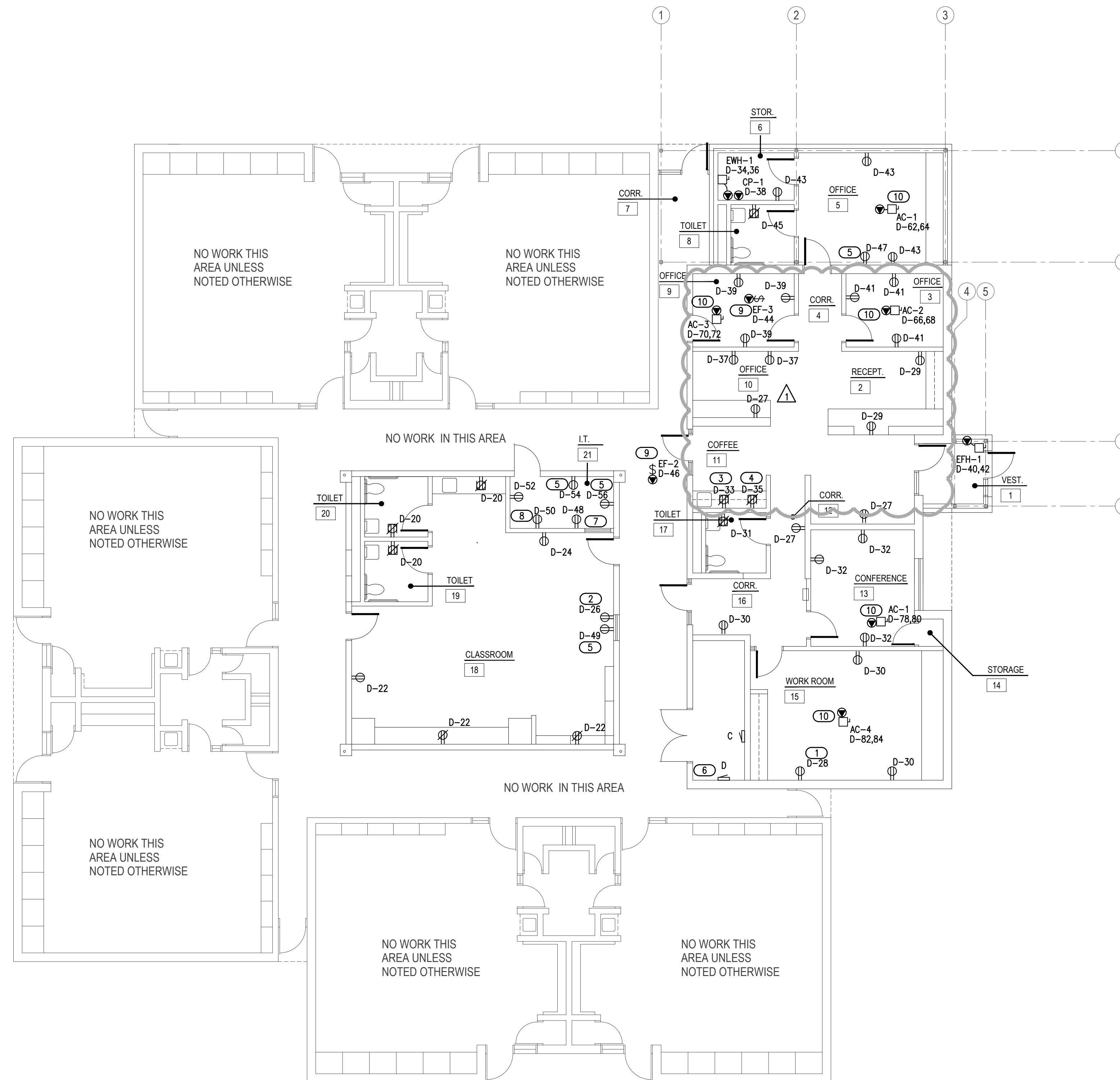
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POWER GENERAL NOTES

- COORDINATE EXACT LOCATIONS OF DEVICES SHOWN WITH OTHER EQUIPMENT. COORDINATE EXACT LOCATION OF CEILING MOUNTED DEVICES WITH LIGHTS, HVAC EQUIPMENT, AND OTHER DEVICES.
- COORDINATE WITH MECHANICAL CONTRACTOR AND PROVIDE ALL RELAYS, CONNECTIONS, AND ALL DEVICES NECESSARY TO INTERLOCK EXHAUST FANS, DAMPERS, ETC WITH PROPER CONTROL DEVICES.
- COORDINATE EXACT LOCATION OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR. REFER TO MECHANICAL PLANS AND MANUFACTURER FOR ADDITIONAL INFORMATION.
- COORDINATE EXACT LOCATION OF PLUMBING EQUIPMENT WITH PLUMBING CONTRACTOR. REFER TO PLUMBING PLANS AND MANUFACTURER FOR ADDITIONAL INFORMATION.
- ALL RECEPTACLES LOCATED AT COUNTERTOP HEIGHT SHALL BE ORIENTED HORIZONTALLY.
- RE-USE/EXTEND EXISTING CIRCUITS TO POWER NEW DEVICES. PROVIDE NEW CONDUIT AND FEEDERS AS NEEDED FOR A COMPLETE CONNECTION.
- EXISTING CIRCUITS MAY BE REUSED IF IN SERVICEABLE CONDITIONS, OTHERWISE PROVIDE NEW CIRCUITS AS REQUIRED. NEW DEVICES AND FIXTURES SHALL BE CIRCUITED TO NEW PANELS AS INDICATED. EC SHALL FIELD VERIFY EXISTING CONDITIONS AND REPORT ANY ANOMALIES TO THE ARCHITECT AND ENGINEER PRIOR TO PROCEEDING.

POWER KEYED NOTES

- PROVIDE 120V SCANNER/COPPER/PRINTER DEDICATED CONNECTION. COORDINATE WITH THE ARCHITECT, OWNER, AND MANUFACTURER FOR THE EXACT LOCATION AND CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN.
- PROVIDE 120V SMARTBOARD DEDICATED CONNECTION. COORDINATE WITH THE ARCHITECT, OWNER, AND MANUFACTURER FOR THE EXACT LOCATION AND CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN.
- PROVIDE 120V MICROWAVE DEDICATED CONNECTION. COORDINATE WITH THE ARCHITECT, OWNER, AND MANUFACTURER FOR THE EXACT LOCATION AND CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN.
- PROVIDE 120V COFFEE MAKER DEDICATED CONNECTION. COORDINATE WITH THE ARCHITECT, OWNER, AND MANUFACTURER FOR THE EXACT LOCATION AND CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN.
- PROVIDE 120V I.T. EQUIPMENT CONNECTION. COORDINATE WITH THE ARCHITECT, TECHNOLOGY CONTRACTOR, AND MANUFACTURER FOR THE EXACT LOCATION AND CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN.
- NEW 208V 600A PANEL. EC PROVIDE NEW FEEDERS AND CONDUIT FOR NEW PANEL. REFER TO 'E010' AND 'E401' FOR ADDITIONAL INFORMATION.
- PROVIDE 120V FACP CONNECTION. COORDINATE WITH THE ARCHITECT, TECHNOLOGY CONTRACTOR, AND MANUFACTURER FOR THE EXACT LOCATION AND CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN.
- PROVIDE 120V ACP CONNECTION. COORDINATE WITH THE ARCHITECT, TECHNOLOGY CONTRACTOR, AND MANUFACTURER FOR THE EXACT LOCATION AND CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN.
- NEW 120V/1PH CONNECTION FOR EXHAUST FAN. EC TO COORDINATE EXACT LOCATION AND CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR.
- NEW 208V/1PH CONNECTION FOR INTERIOR MINI-SPLIT UNITS. EC TO COORDINATE EXACT LOCATION AND CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR.



1 ELECTRICAL POWER PLAN

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



2600 Van Buren St., Suite 2635
Norman, OK 73072
Salas O'Brien Registration: CA# 7058
Expiration Date: 6/30/2023
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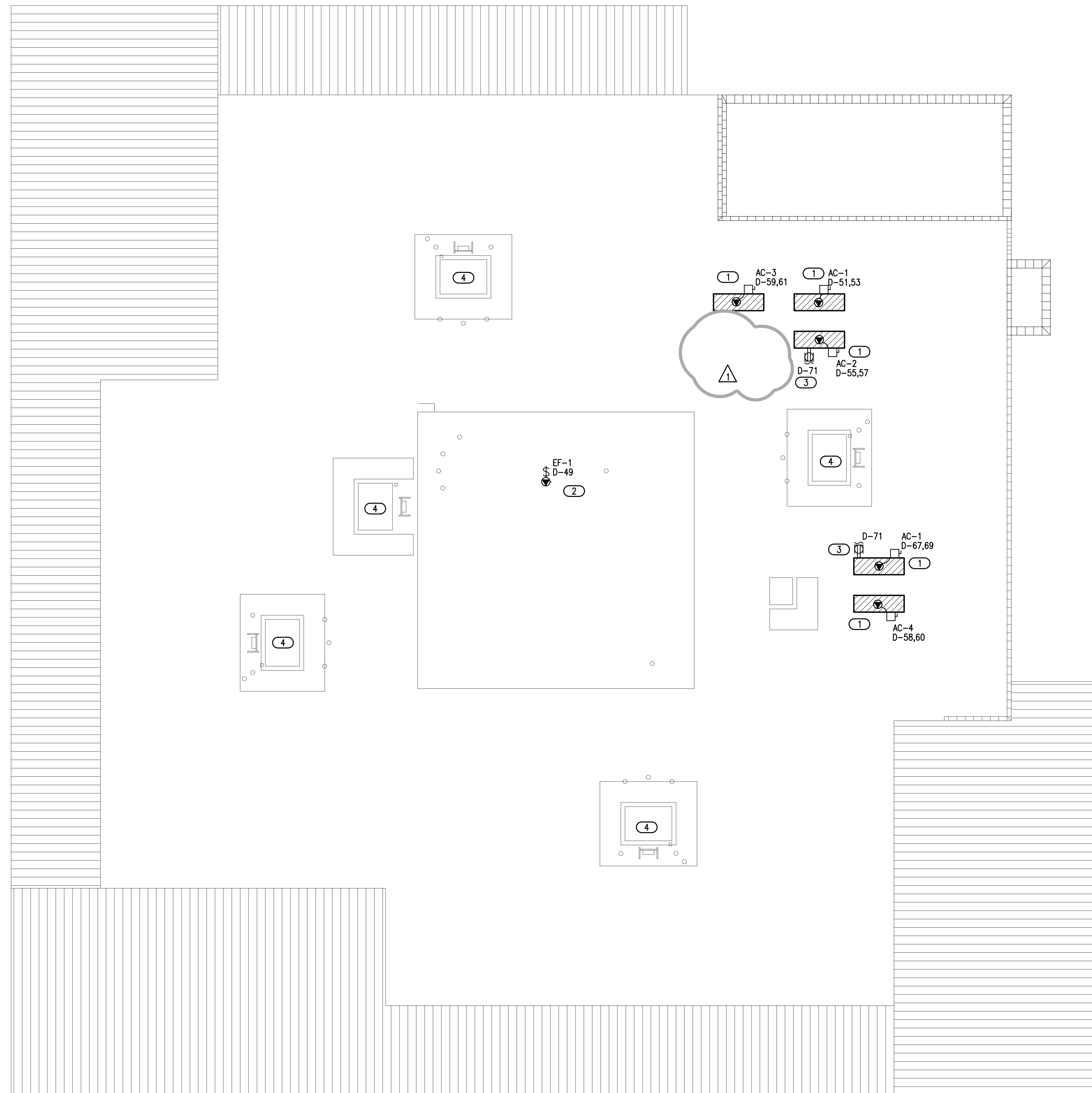
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- ### GENERAL NOTES
- FIELD VERIFY EXISTING CONDITIONS PRIOR TO ALL WORKS.
 - COORDINATE EXACT LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR.
 - COORDINATE WITH THE MECHANICAL CONTRACTOR FOR THE INSTALLATION OF REMOTE TEST STATION FOR FACTORY-INSTALLED RETURN DUCT SMOKE DETECTOR AND ANY REQUIRED CO DETECTORS. EC RESPONSIBLE FOR INTEGRATING DEVICES INTO EXISTING FIRE ALARM SYSTEM. REFER TO FIRE ALARM NOTES ON SHEET E000 FOR ADDITIONAL INFORMATION.
 - EC SHALL UPDATE CIRCUIT DIRECTORIES IN EXISTING PANELS AS REQUIRED FOR NEW EQUIPMENT. NEW CIRCUIT DIRECTORIES ARE TO BE TYPED AND PRINTED.
 - PULL ALL UNUSED WIRING AND CONDUIT BACK TO SOURCE PANEL AND LABEL BREAKER AS SPARE.
 - FIRMLY MOUNT WEATHERPROOF 120V CONVENIENCE OUTLET ON UNISTRUT/KINDORF. COORDINATE WITH OTHER TRADES PRIOR TO ROUGH-IN. REDUNDANT RECEPTACLES WHETHER STAND-ALONE OR INTEGRAL TO A UNIT MAY BE OMITTED SO LONG AS ALL THE REQUIREMENTS OF NEC 210.63 ARE SATISFIED.

- ### KEYED NOTES
- NEW 208/1PH CONNECTION FOR EXTERIOR MINI-SPLIT UNITS. EC TO COORDINATE EXACT LOCATION AND CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR.
 - NEW 120/1PH CONNECTION FOR EXHAUST FAN. EC TO COORDINATE EXACT LOCATION AND CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR.
 - NEW 120V CONNECTION FOR WEATHERPROOF CONVENIENCE OUTLETS.
 - EXISTING ROOFTOP UNIT TO REMAIN AS IS.



1 ELECTRICAL ROOF PLAN

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



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SALAS O'BRIEN
PLUMBING / MECHANICAL / ELECTRICAL



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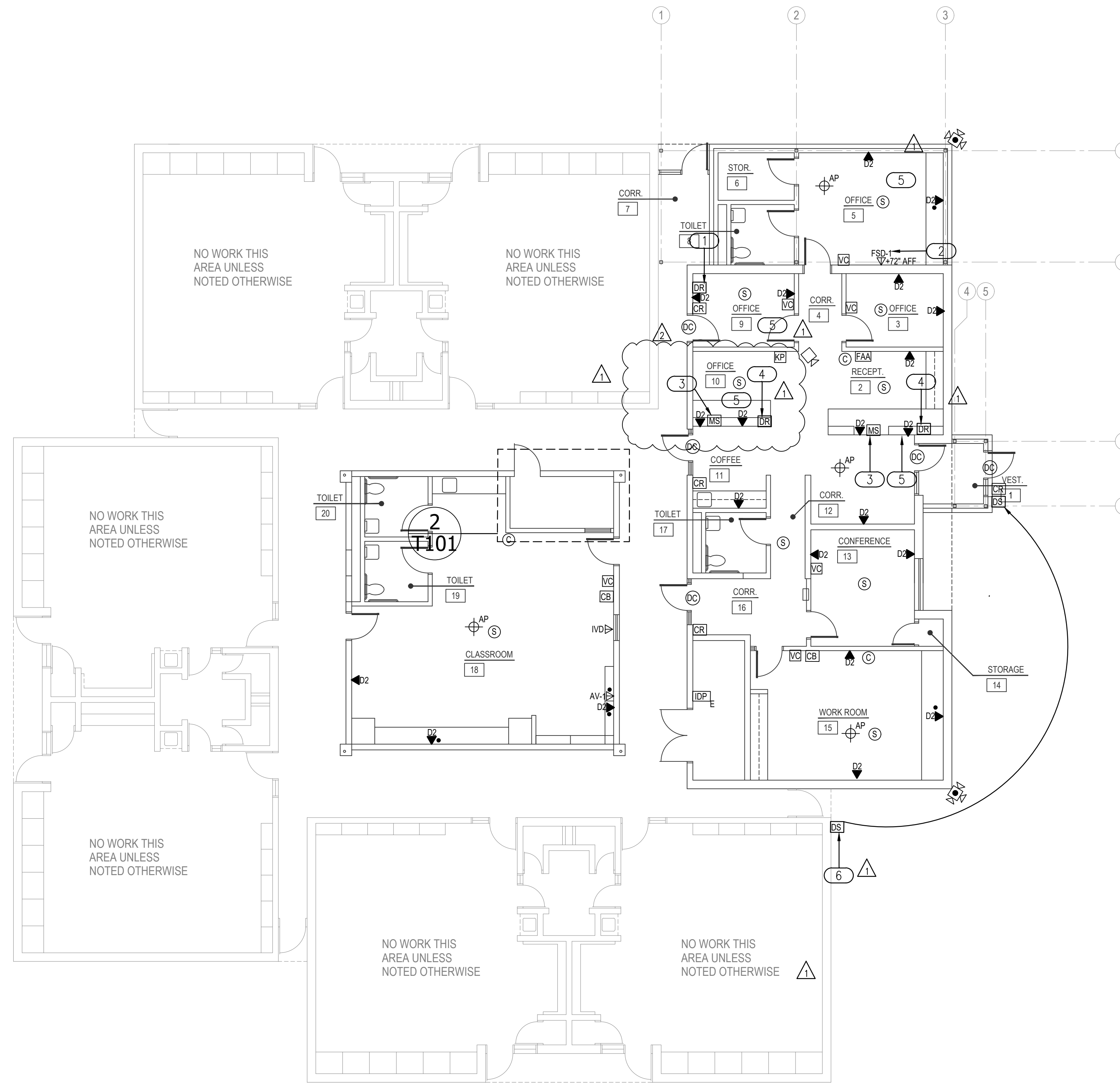
MECHANICAL EQUIPMENT SCHEDULE									
CALLOUT	DESCRIPTION	VOLTS	KVA	MCA	MOCP	WIRE CALLOUT	DISCONNECT	DISC PROV BY	DISC INST BY
AC-1	EXTERIOR MINI-SPLIT	208/120V 2P 3W	1.92	20	30	3/4"C,2#12,#12N,#12G	NON-FUSED	MC	EC
AC-1	INDOOR MINI-SPLIT	208/120V 2P 3W	3.33	20	30	3/4"C,2#12,#10N,#10G	NON-FUSED	MC	EC
AC-1	INDOOR MINI-SPLIT	208/120V 2P 3W	3.33	20	30	3/4"C,2#12,#12N,#12G	NON-FUSED	MC	EC
AC-1	EXTERIOR MINI-SPLIT	208/120V 2P 3W	1.92	20	30	3/4"C,2#12,#12N,#12G	NON-FUSED	MC	EC
AC-2	EXTERIOR MINI-SPLIT	208/120V 2P 3W	2.05	12.3	15	3/4"C,2#12,#12N,#12G	NON-FUSED	MC	EC
AC-2	INDOOR MINI-SPLIT	208/120V 2P 3W	2.05	12.3	15	3/4"C,2#10,#10N,#10G	NON-FUSED	MC	EC
AC-3	EXTERIOR MINI-SPLIT	208/120V 2P 3W	1.98	11.9	15	3/4"C,2#12,#12N,#12G	NON-FUSED	MC	EC
AC-3	INDOOR MINI-SPLIT	208/120V 2P 3W	1.98	11.9	15	3/4"C,2#12,#12N,#12G	NON-FUSED	MC	EC
AC-4	EXTERIOR MINI-SPLIT	208/120V 2P 3W	3.66	22	30	3/4"C,2#10,#10N,#10G	NON-FUSED	MC	EC
AC-4	INDOOR MINI-SPLIT	208/120V 2P 3W	3.66	22	30	3/4"C,2#10,#10N,#10G	NON-FUSED	MC	EC
CP-1	CIRCULATION PUMP	120V 1P 2W	0.24	2	15	3/4"C,1#10,#10N,#10G	HARDWIRED CONNECTION	EC	EC
EF-1	EXHAUST FAN	120V 1P 2W	0.7	7.25	15	3/4"C,1#12,#12N,#12G	TOGGLE SWITCH	EC	EC
EF-1	EXHAUST FAN	120V 1P 2W	0.7	7.25	15	3/4"C,1#12,#12N,#12G	TOGGLE SWITCH	EC	EC
EF-2	EXHAUST FAN	120V 1P 2W	0.15	2	15	3/4"C,1#12,#12N,#12G	TOGGLE SWITCH	EC	EC
EF-3	EXHAUST FAN	120V 1P 2W	0.15	2	15	3/4"C,1#12,#12N,#12G	TOGGLE SWITCH	EC	EC
EFH-1	ELECTRIC FAN FORCED HEATER	208/120V 2P 3W	1.5	9	15	3/4"C,2#10,#10N,#10G	NON-FUSED	MFR	EC
EW-1	ELECTRIC WATER HEATER	208/120V 2P 3W	2.11	22	30	3/4"C,2#10,#10N,#10G	NON-FUSED	EC	EC

Panel		ROOM	ELECTRIC RM	VOLTS	208Y/120V 3P 4W	AIC	65,000	
D		MOUNTING	SURFACE	BUS AMPS	600	MAIN BKR	600	
		FED FROM	UTILITY	NEUTRAL	100%	LUGS	STANDARD	
NOTE								
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	
1	100/3	14	EXISTING RTU LOAD	a	2	100/3	14	EXISTING RTU LOAD
3				b	4			
5	100/3	14	EXISTING RTU LOAD	c	6			
7				d	8	100/3	14	EXISTING LOAD
9				b	10			
11	100/3	14	EXISTING RTU LOAD	c	12			
13				a	14	20/1	0.2	EXISTING LOAD
15				b	16	20/1	0.2	EXISTING LOAD
17	225/3	30	EXISTING PANEL C	c	18	20/1	0.2	EXISTING LOAD
19				d	20	20/1	0.54	TOILETS 19 AND 20
21				b	22	20/1	0.54	CLASSROOM 18
23	20/1	0.896	LIGHTING	c	24	20/1	0.18	CLASSROOM 18
25	20/1	1.09	LIGHTING	d	26	20/1	0.18	TV
27	20/1	0.54	COFFEE 11	b	28	20/1	0.18	WORK RM 15
29	20/1	0.36	RECEPTION 2	c	30	20/1	0.54	CORRIDOR 16
31	20/1	0.18	TOILET 17	d	32	20/1	0.54	CONFERENCE 32
33	20/1	0.18	ABOVE COUNTER	b	34	30/2	2.11	EW-1
35	20/1	0.18	ABOVE COUNTER	c	36			
37	20/1	0.36	OFFICE RM 10	d	38	15/1	0.24	CP-1
39	20/1	0.54	OFFICE RM 9	b	40	15/2	1.5	EFH-1
41	20/1	0.54	OFFICE RM 3	c	42			
43	20/1	0.54	OFFICE RM 5	d	44	15/1	0.15	EF-3
45	20/1	0.18	TOILET RM 8	b	46	15/1	0.846	EF-2
47	20/1	0.18	IT RECEPTACLES	c	48	20/1	0.18	FACP
49	15/1	0.686	EF-1	d	50	20/1	0.18	ACP
51	30/2	1.92	AC-1	b	52	20/1	0.18	IT RECEPTACLE
53				c	54	20/1	0.18	IT RECEPTACLE
55	15/2	2.05	AC-2	d	56	20/1	0.18	IT RECEPTACLE
57				b	58	30/2	3.66	AC-4
59	15/2	1.88	AC-3	c	60			
61				d	62	30/2	3.33	AC-1
63	20/2	0	SPACE	b	64			
65				c	66	15/2	2.05	AC-2
67	30/2	1.92	AC-1	d	68			
69				b	70	15/2	1.98	AC-3
71	20/1	0.36	ROOFTOP RECEPTACLES	c	72			
73	20/1	0.896	LIGHTING	d	74	20/2	0	SPACE
75	20/1	1.22	LIGHTING	b	76			
77	20/1	0.704	LIGHTING	c	78	30/2	3.33	AC-1
79	20/1	0	SPACE	d	80			
81	20/1	0	SPACE	b	82	30/2	3.66	AC-4
83	20/1	0	SPACE	c	84			

	CONN KVA	CALC KVA		CONN KVA	CALC KVA		
LIGHTING	4.8	6	(125%)	MOTORS	31.4	31.4	(100%)
LARGEST MOTOR	14	3.5	(25%)	RECEPTACLES	38.3	24.2	(50%>10)
				COOLING	70	70	(100%)
				TOTAL LOAD		135	
				BALANCED 3-PHASE LOAD		375 A	
				PHASE A		96.7%	
				PHASE B		102%	
				PHASE C		102%	

EXISTING LOADS ARE APPROXIMATIONS. EC TO FIELD VERIFY EXISTING LOADS PRIOR TO BEGINNING WORK.

Salas O'Brien
2600 Van Buren St., Suite 2635
Norman, OK 73072
Salas O'Brien Registration: CA# 7058
Expiration Date: 6/30/2023
Salas O'Brien Project Number: 2024-02321



- GENERAL NOTES**
- A. COORDINATE ALL FINAL MOUNTING HEIGHTS, FOR WALL MOUNTED DEVICES, PRIOR TO ROUGH-IN. COORDINATE WITH ARCHITECT, OWNER AND ENGINEER.
 - B. COORDINATE ALL CEILING DEVICE LOCATIONS WITH ARCHITECTURAL DRAWINGS AND INTERIOR DESIGN CONSULTANT (IF APPLICABLE) PRIOR TO ROUGH-IN.
 - C. REFERENCE TECHNOLOGY PLANS, COMPOSITE PLANS, NOTES & LEGENDS, ELECTRICAL PLAN AND INFORMATION AND DEVICE/OUTLET LOCATIONS.
 - D. CONTRACTOR TO COORDINATE ALL DROP LOCATIONS WITH FURNITURE. COORDINATE WITH ARCHITECT AND OWNER FOR MORE INFORMATION.
 - E. EACH WIRELESS ACCESS POINT SHOWN ON DRAWINGS SHALL RECEIVE TWO(2) NETWORK CABLES.

- KEYED NOTES**
- 1 DOOR RELEASE BUTTON TO UNLOCK THIS OFFICE DOOR
 - 2 RELOCATE EXISTING PRINCIPAL TV TO THIS LOCATION.
 - 3 RELOCATE EXISTING INTERCOM MASTER STATION TO THIS LOCATION.
 - 4 DOOR RELEASE TO UNLOCK ROOM 11 DOOR.
 - 5 RELOCATE WIRELESS HOLD UP BUTTONS TO LOCATION/ROOM INDICATED. TOTAL OF 4 EXISTING BUTTONS.
 - 6 EXISTING AVIGILON DOOR STATION AND MODULE LIGHT. MODULE WILL BE RELOCATED AND WIRED TO NEW KEYSKAN CONTROLLER AND OPERATOR.

NY
drawn by
NY
checked by
MAY 2024
date
09/20/24 CB04
revisions
06/19/24 ADDENDUM 02

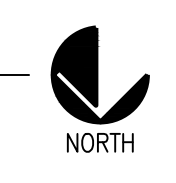
MOORE PUBLIC SCHOOLS
BOARD OF EDUCATION
MOORE, OKLAHOMA



RED OAK
ELEMENTARY SCHOOL
SECURITY UPGRADES

sheet no:
T201

1 TECHNOLOGY FLOOR PLAN
SCALE: 1/8" = 1'-0"



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