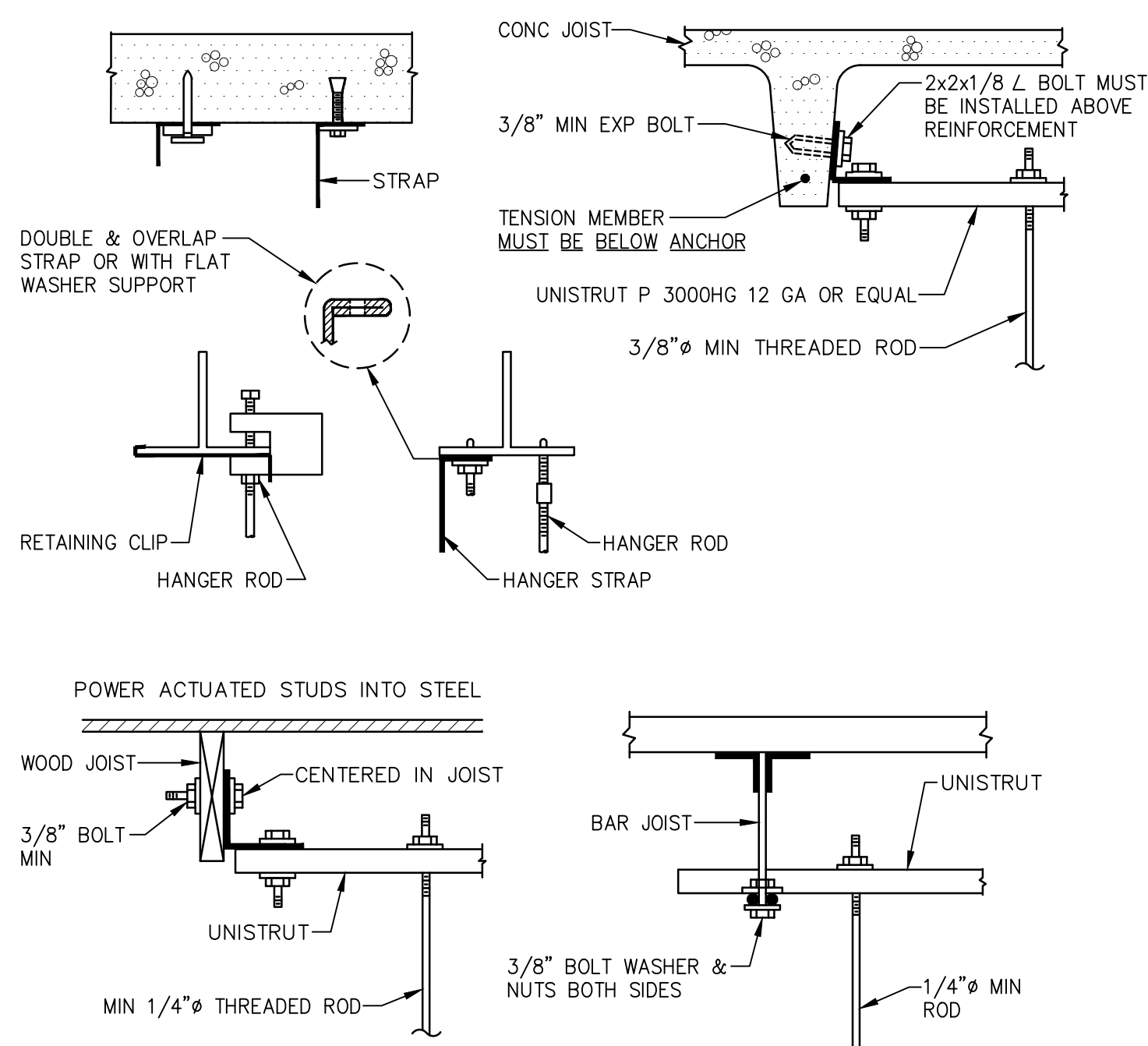
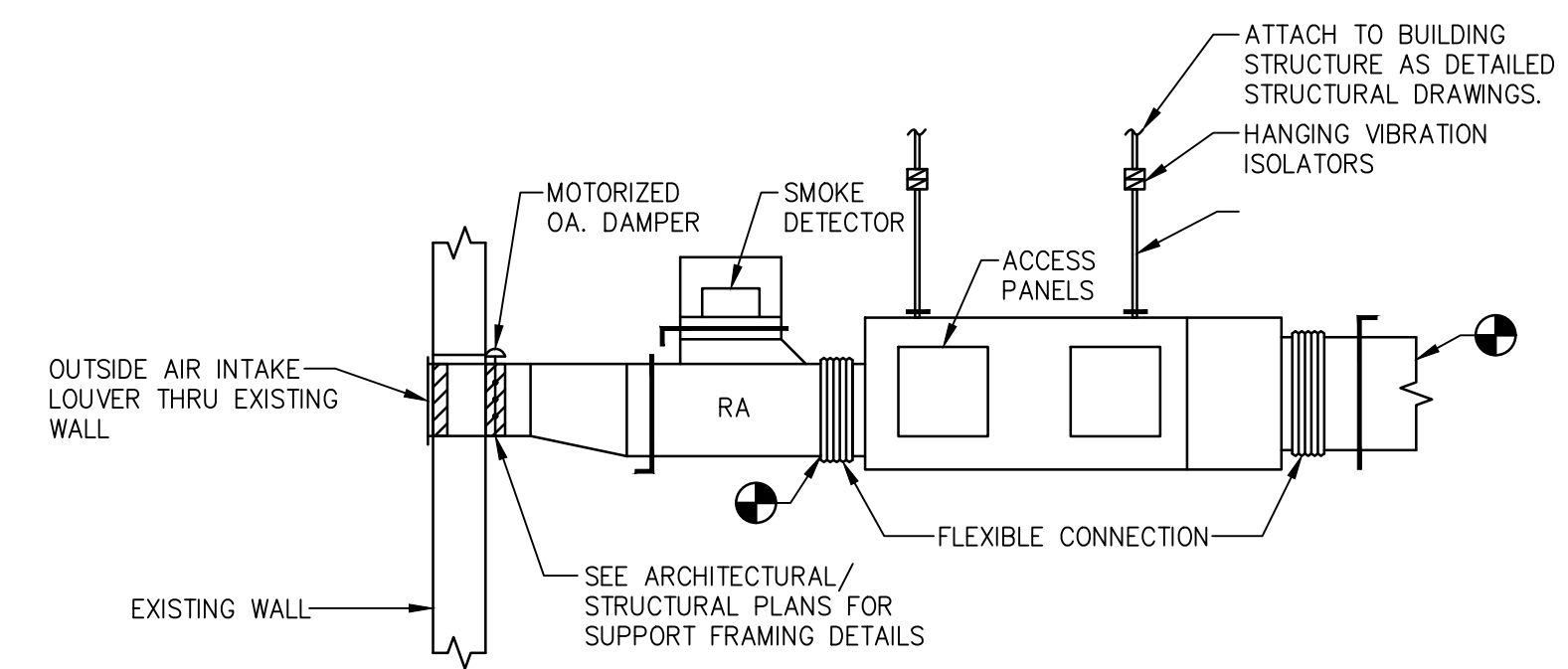


DETAILS OF DUCT LAYOUT
N.T.S.

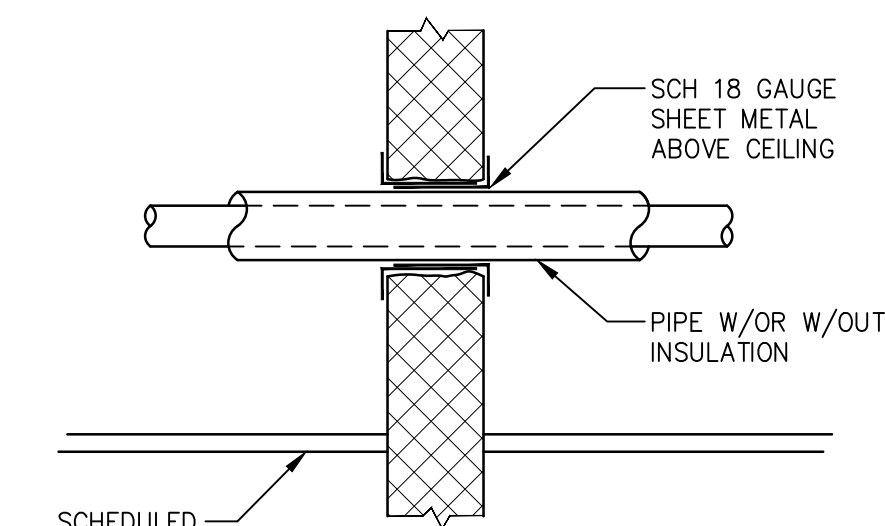


NOTE:
1. ALLOWABLE LOADS AND ELEMENT SIZING SEALED BY REGISTERED ENGINEER IN STATE OF NEW JERSEY.

UPPER ATTACHMENT AND JOIST HANGERS FOR DUCTWORK
N.T.S.

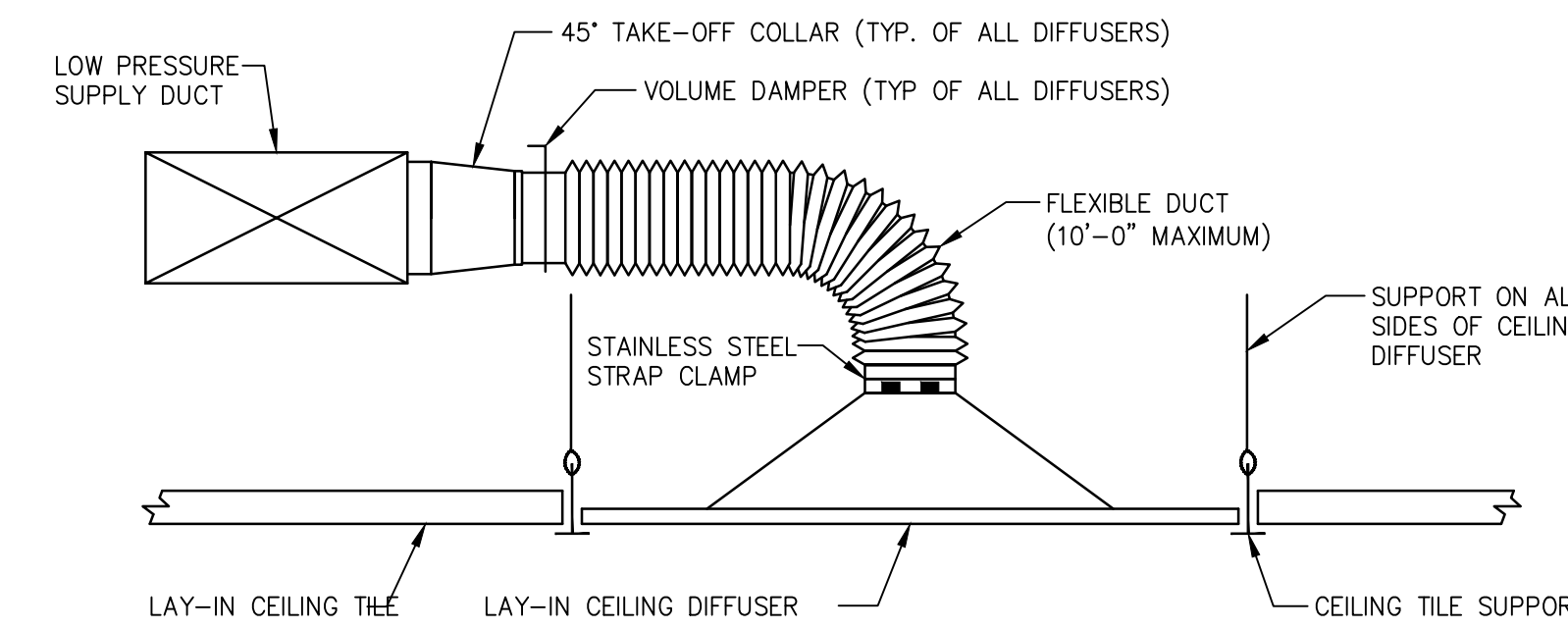


SUSPENDED AHU DETAIL
N.T.S.
(CONTRACTOR TO PROVIDE DUCT TRANSITIONS AS REQUIRED)

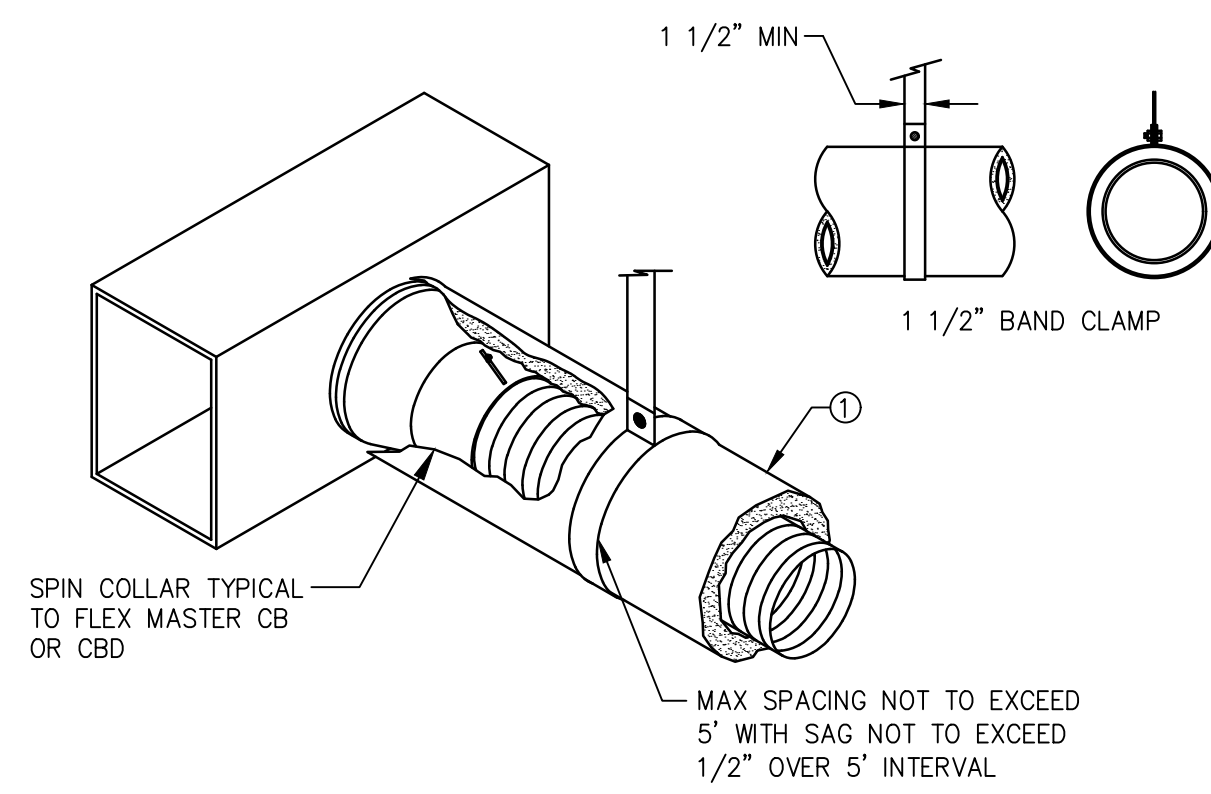


NOTES:
1. TYP FOR NON-INSULATED PIPE AND CONDUIT.
2. TYP FOR MASONRY OR CONCRETE WALL.
3. FIRE RATED WALLS MUST BE SEALED W/APPROPRIATE FIRE RETARDED CAULKING.

PIPE PENETRATION THRU WALL ABOVE CEILING
N.T.S.



FLEXIBLE BRANCH DUCT WORK
N.T.S.

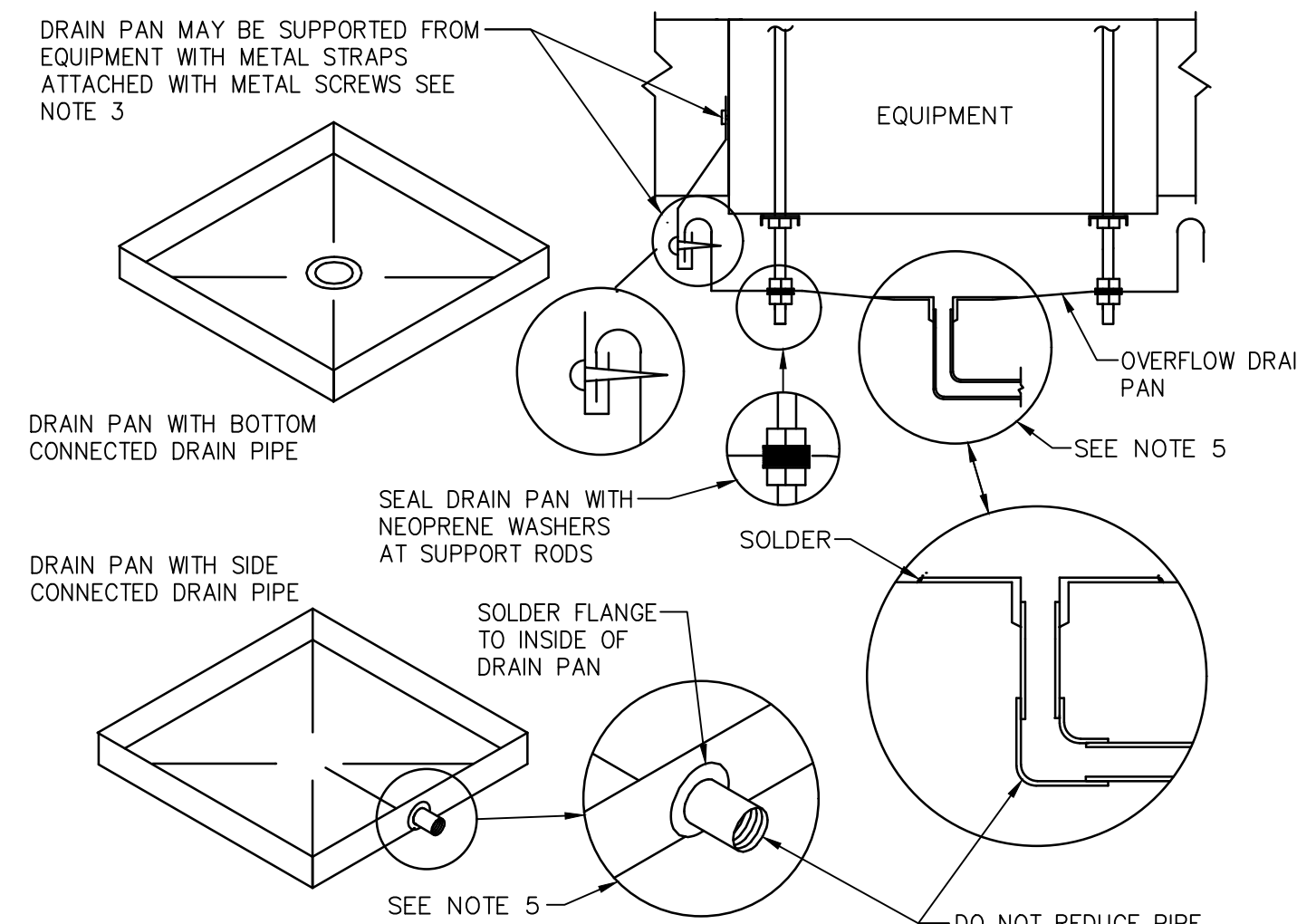


GAUGE	THK.	1" STRAP CAPABILITY	MAXIMUM LOAD
24	.028	840	168
22	.034	1070	216
20	.040	1298	259

* ELASTIC LIMIT ASSUMED 30ksi; RECOMMEND MAX LOAD (20% OF YIELD STRENGTH).

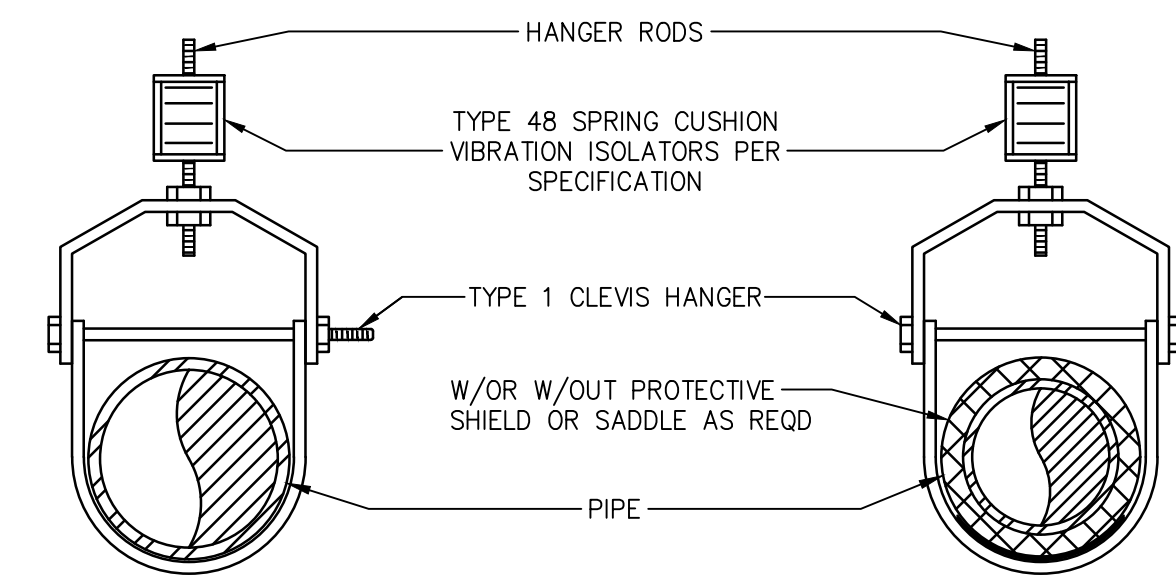
NOTES:
1. FLEX DUCT WITH EXTERNAL INSULATION AND VAPOR BARRIER JACKETING.

SUGGESTED SUPPORT REQUIREMENTS FOR FLEX & STRAIGHT RECTANGULAR DUCT
N.T.S.



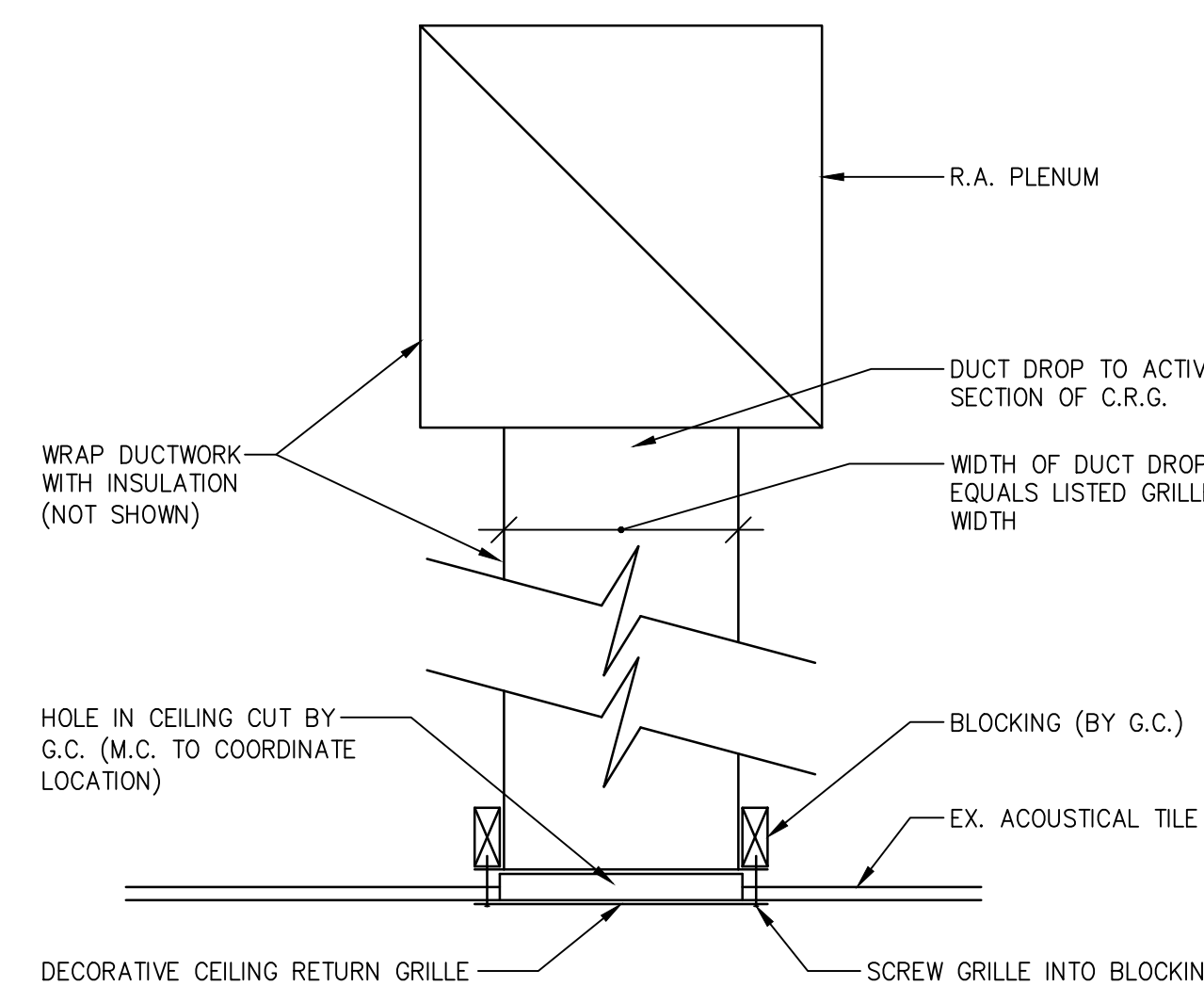
NOTES:
1. CROSS BREAK BOTTOM OF SHEET METAL DRAIN PAN TO PROVIDE SLOPED DRAINAGE TO OUTLET
2. SOLDER OR OTHERWISE SEAL ALL JOINTS TO MAKE DRAIN PAN LEAK TIGHT
3. SUSPEND DRAIN PAN WITH EQUIPMENT SUPPORT RODS WHEN POSSIBLE, OTHERWISE ATTACH WITH STRAPS TO EQUIPMENT
4. FABRICATE DRAIN PAN FROM 24 GA GALV SHEET METAL
5. ROUTE DRAIN TO CODE APPROVED CONSPICUOUS LOCATION AND PIPE SEPARATELY FROM CONDENSATE DRAIN PIPE

CONDENSATE OVERFLOW DRAIN PAN
N.T.S.

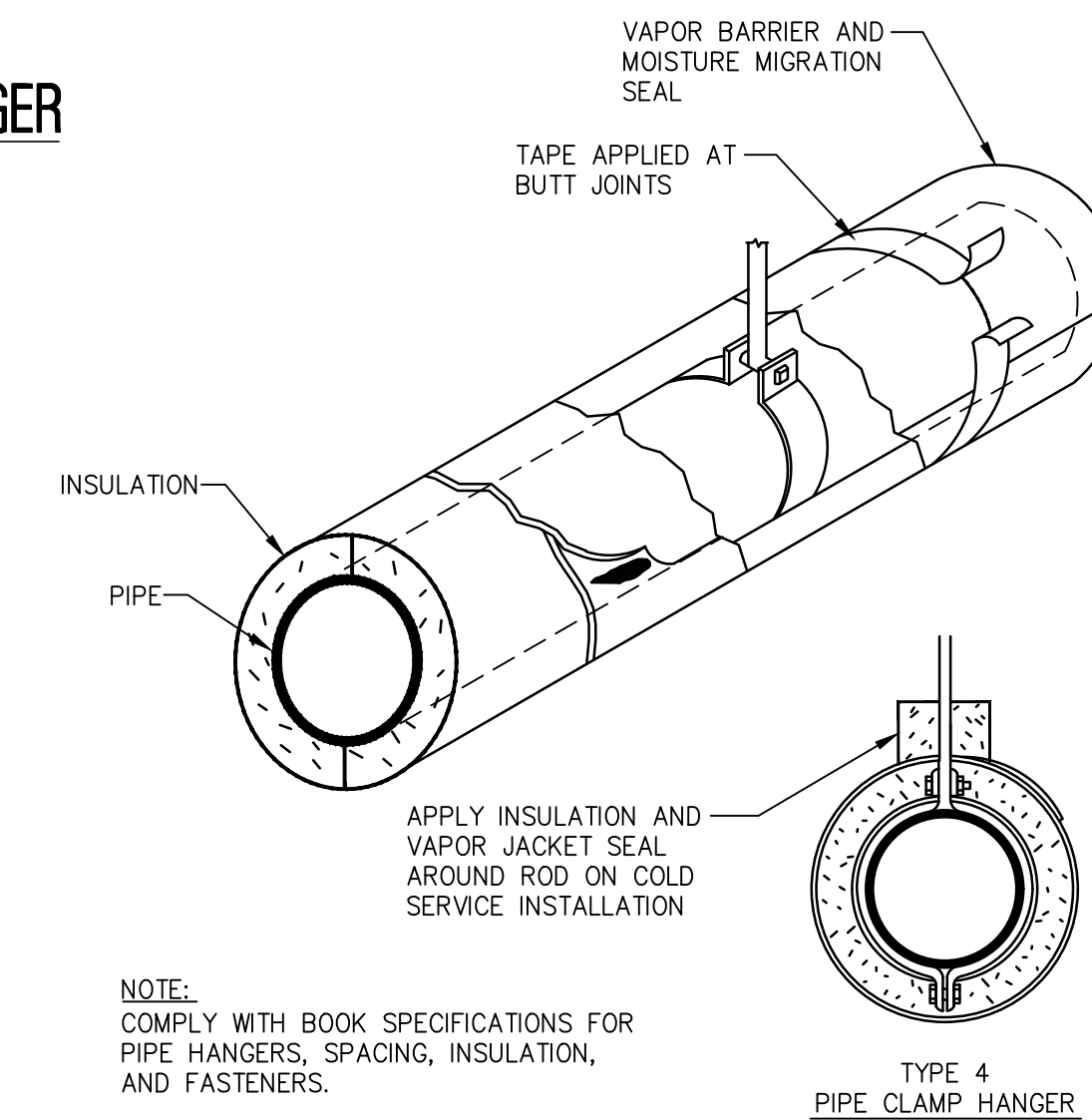


NOTES:
1. INSTALL PLUMB.
2. BORE OF WASHER OR SPRING RETAINER TO BE SAME SIZE AS ROD.
3. WELD WASHER OR SPRING RETAINER TO ROD.

SINGLE PIPE TYPE 1 CLEVIS HANGER
N.T.S.



CEILING RETURN GRILLE DETAIL
N.T.S.



NOTE:
COMPLY WITH BOOK SPECIFICATIONS FOR PIPE HANGERS, SPACING, INSULATION, AND FASTENERS.

HANGER, INSULATION AND VAPOR JACKET DETAIL
N.T.S.

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"ENGINEERING EXCELLENCE"

DATE: 07-11-2023
CHRISTOPHER A. SAPONARO
NJ PROFESSIONAL ENGINEER LIC. No. 40059

ISSUED FOR BID
DATE: 07-11-2023

PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID.

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NO.	REVISION	DATE	BY	CHK

MECHANICAL DETAILS

CITY OF MARGATE
MARGATE MUNICIPAL BUILDING OFFICE IMPROVEMENTS

CITY OF MARGATE ATLANTIC COUNTY NEW JERSEY

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
BZ	MT		AS NOTED
DATE:	3/2023	SHEET No.:	M-4.1
JOB No.:	01-14-C-003		

VENTILATION SCHEDULE - FIRST FLOOR

ROOM NAME	EQUIPMENT TAG NUMBER	APPROX. AREA (SF)	OCCUPANT DENSITY # PEOPLE/1000 SF	NUMBER OF PEOPLE & / OR FIXTURES	VENTILATION AIR REQUIREMENTS (ASHRAE 62, INTERNATIONAL MECH CODE 2021)										OUTDOOR AIR CORRECTED DESIGN TOTAL (CFM) (NOTE 2)	EXHAUST AIR DESIGN TOTAL (CFM)	RETURN AIR DESIGN TOTAL (CFM)	SUPPLY AIR DESIGN TOTAL MAX/MIN (CFM)	
					PEOPLE OUTDOOR AIRFLOW RATE Rp	TOTAL PEOPLE OUTDOOR AIRFLOW (CFM)	AREA OUTDOOR AIRFLOW RATE Ra	TOTAL AREA OUTDOOR AIRFLOW (CFM)	BREATHING ZONE OUTDOOR AIRFLOW (CFM) Vbz	ZONE AIR DISTRIBUTION EFFECTIVENESS (COOLING) Ez	ZONE AIR DISTRIBUTION EFFECTIVENESS (HEATING) Ez	ZONE OUTDOOR AIRFLOW (CFM) Voz	PRIMARY OUTDOOR AIR FRACTION Zp	EXHAUST AIRFLOW RATE					TOTAL EXHAUST AIRFLOW (CFM)
OPEN OFFICE 001	AHU-1 / DC-1	530	5	3 PEOPLE	5 CFM/PERSON	13	0.06 CFM/SQ.FT.	32	45	1.0	0.8	56	1.0	N/A	0	75	0	550	550
OFFICE 002	AHU-1 / DC-2	200	5	1 PEOPLE	5 CFM/PERSON	5	0.06 CFM/SQ.FT.	12	17	1.0	0.8	21	1.0	N/A	0	50	0	250	250
730															0	125	800		

AIR HANDLING UNIT SCHEDULE

TAG	AREA(S) SERVED	APPROX. DIMENSIONS (L" X W" X H")	UNIT WEIGHT (LBS.)	SUPPLY AIRFLOW CFM	RETURN AIRFLOW CFM	MINIMUM OUTSIDE AIR CFM	E.S.P. (IN. W.C.)	T.S.P. (IN. W.C.)	MOTOR HP	CHILLED WATER COOLING COIL					HEATING COIL					ELEC. V/PH/Hz	MCA AMPS	MOPD AMPS	BASIS OF DESIGN	NOTES				
										TOTAL CAPACITY (MBH)	SENS. CAPACITY (MBH)	EAT/DB (DEG. F.)	EAT/WB (DEG. F.)	LAT/DB (DEG. F.)	LAT/WB (DEG. F.)	FLUID FLOW (GPM)	MAX FLUID P.D (FT H2O)	MAX AIR P.D (IN H2O)	MAX FACE VEL (FPM)						CAPACITY (MBH)	EAT/DB (DEG. F.)	LAT/DB (DEG. F.)	ELEC. CAP (KW)
AHU-1	OFFICES	30.1" x 30.0" x 17.0"	199	800	675	125	1.00	2.17	1	26.37	19.73	78	65	55.7	53.7	5.7	6	0.8	480.0	-	-	-	-	208/3/60	23.12	25	TRANE BCHE024	SEE BELOW

NOTES: 1. PROVIDE UNITS WITH 2" FOAM INJECTED R-13 WITH THERMAL BREAK INSULATION.
 2. TEMPERATURES SHOWN ARE LEAVING THE COIL.
 3. PROVIDE UNIT WITH HANGING VIBRATION ISOLATORS AND SUPPORT RODS.
 4. PROVIDE WITH AUXILIARY DRAIN PAN.
 5. PROVIDE WITH 2" THICK MERV 13 FILTERS.
 6. AIR HANDLING UNIT IS NOT PROVIDED WITH HEATING.
 7. PROVIDE WITH COIL DRAIN PANS, CONDENSATE OVERFLOW ALARM, AND FREEZESTAT.
 8. COORDINATE ALL CONTROLS WITH DUCT MOUNTED ELECTRIC REHEAT COILS.
 9. UNIT HAS BEEN PREPURCHASED BY TOWNSHIP.

LOUVER SCHEDULE

TAG	SERVICE	SYSTEM	AIRFLOW (CFM)	DIMENSIONS (W x H INCHES)	FREE AREA (SQ.FT.)	FREE AREA VEL (FPM)	AIR PD (IN. W.G.)	MATERIAL	FINISH	BASIS OF DESIGN	NOTES
L-1	OUTDOOR AIR	AHU-1	125	17" x 12"	0.52	239	0.05	ALUMINUM	BAKED ENAMEL	RUSKIN ELF63750XH	1, 2

NOTES: 1. PROVIDE WITH BIRD SCREEN, INTEGRAL FLANGE AND BAKED ENAMEL FINISH (COORDINATE COLOR WITH ARCHITECT).
 2. PROVIDE WITH RUSKIN CD36 MOTORIZED 120 V DAMPER. DAMPER TO INCLUDE SP100 SWITCH PACKAGE.

ELECTRIC DUCT COIL SCHEDULE

TAG	LOCATION	TYPE	WIDTH (IN)	HEIGHT (IN)	AIRFLOW (CFM)	OUTPUT (KW)	ELECTRICAL (V / Hz / PH)	POWER (AMPS)	STAGES	BASIS OF DESIGN	NOTES
DC-1	OPEN OFFICE 001	SLIP-IN	16	8	550	8	208/60/1	38.5	1	THERMOLEC	1
DC-2	OFFICE 002	SLIP-IN	8	8	250	4	208/60/1	19.2	1	THERMOLEC	1
DC-3	OPEN OFFICE 001	SLIP-IN	30	17	800	10.3	208/60/1	49.5	1	THERMOLEC	1

NOTES: 1. DUCT COIL SHALL BE PROVIDED WITH 24V CONTROL TRANSFORMER, DISCONNECT, AIR PRESSURE SWITCH, BUILT-IN AIRFLOW SENSOR, AUTOMATIC CUT-OUT, MANUAL CUT-OUT, MANUAL HI LIMIT, OVERTEMPERATURE THERMAL LIMIT PROTECTION, AND SCR CONTROL.

DIFFUSER, REGISTER & GRILLE SCHEDULE

TAG	DESCRIPTION	FACE / LENGTH	NECK	DIRECTION	BASIS OF DESIGN		
					MF'R	MODEL	NOTES
A	DIFFUSER	24"x24"	6"ø	SUPPLY	PRICE	ASCD	1,2,3,4,5
B	DIFFUSER	24"x24"	8"ø	SUPPLY	PRICE	ASCD	1,2,3,4,5
C	REGISTER	10"x10"	10"x10"	RETURN	PRICE	630DAL	1,2,3,4,5
D	REGISTER	14"x14"	14"x14"	RETURN	PRICE	630DAL	1,2,3,4,5

NOTES: 1. COORDINATE MOUNTING FRAME WITH CEILING/WALL TYPE.
 2. COORDINATE COLOR & FINISH WITH ARCHITECT.
 3. PROVIDE GRILLE WITH BORDER FLANGE FOR LAY-IN TYPE CEILINGS. SEE PLANS FOR LOCATIONS.
 4. PROVIDE WITH ALUMINUM OPPOSED BLADE DAMPERS.
 5. NC (NOISE CRITERIA) LEVEL MAY BE NO GREATER THAN 20.



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Christopher A. Saponaro
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CHRISTOPHER A. SAPONARO
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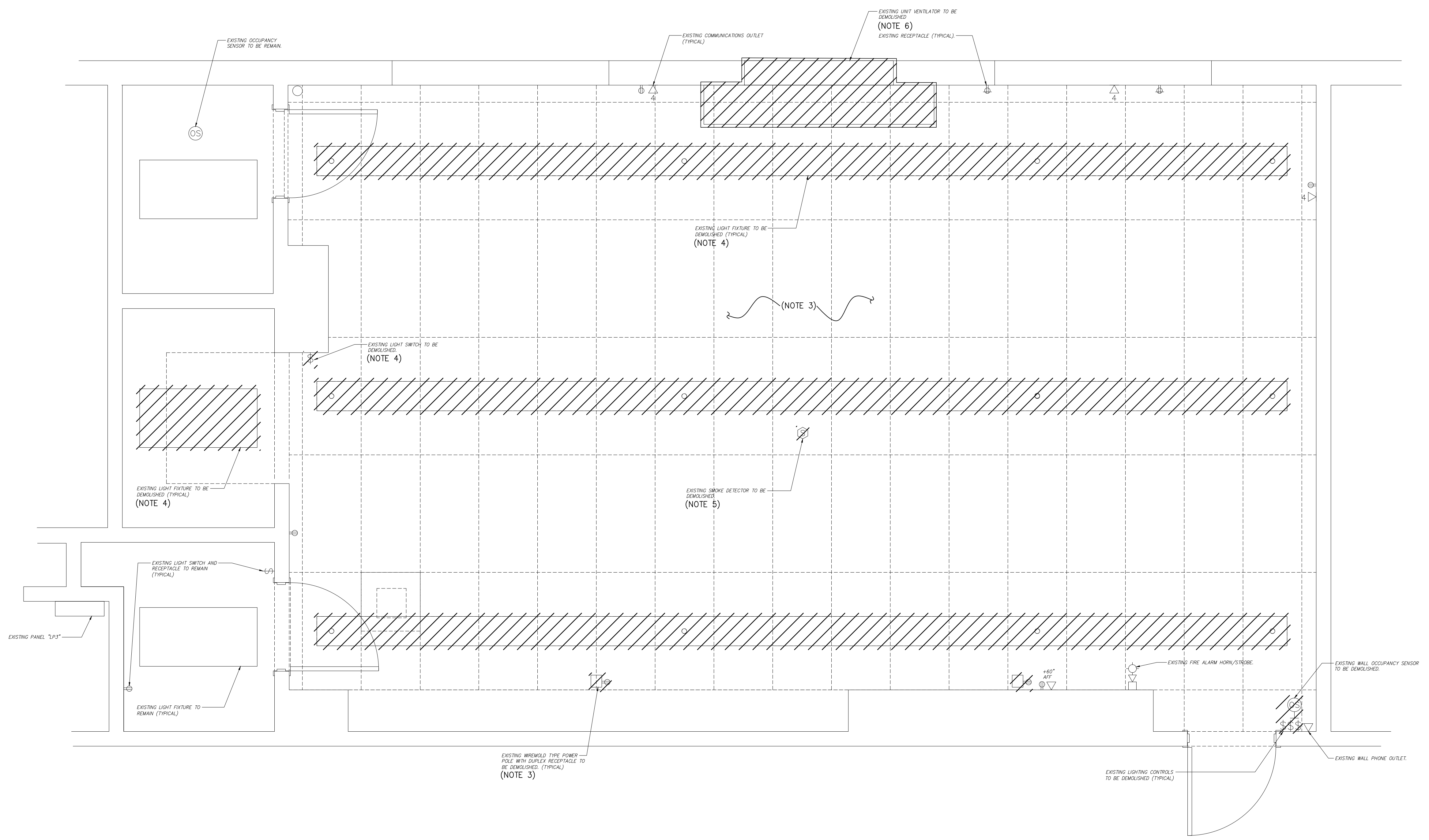
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NO.	DATE	BY	CHK	REVISION

MECHANICAL SCHEDULES
 CITY OF MARGATE
MARGATE MUNICIPAL BUILDING OFFICE IMPROVEMENTS
 CITY OF MARGATE ATLANTIC COUNTY NEW JERSEY

DRAWN BY: B.Z. DESIGN BY: M.T. CHECKED BY: SCALE: AS NOTED
 DATE: 3/2023 SHEET No.: M-5.1
 JOB No.: 01-14-C-003



1 ELECTRICAL FLOOR PLAN - DEMOLITION
SCALE: 1/2"=1'-0"

DEMOLITION NOTES:

1. ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING E-1.0 APPLY TO THIS DRAWING.
2. THIS DEMOLITION PLAN HAS BEEN PROVIDED AS A GUIDE. HOWEVER, ALL DEMOLITION REQUIRED TO SUCCESSFULLY COMPLETE THIS PROJECT SHALL BE INCLUDED IN THE SCOPE OF WORK. IT IS THE INTENT OF THE PLANS AND SPECIFICATIONS TO SECURE A COMPLETELY INTERCONNECTED AND FUNCTIONING SYSTEM AND IF ANY WORKMANSHIP OR MATERIALS ARE REQUIRED WHICH ARE OBVIOUSLY NECESSARY TO CARRY OUT THE FULL INTENT AND MEANING OF THE PLANS AND SPECIFICATIONS OR TO BE REASONABLY INFERRED THEREFROM, THE COST OF SUCH WORKMANSHIP OR MATERIALS SHALL BE INCLUDED IN THE SCOPE OF WORK.
3. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR DEMOLISHING ALL EXISTING SURFACE MOUNTED RACEWAY, DEVICES AND CONDUCTORS BACK TO SOURCE UNLESS OTHERWISE NOTED.
4. ELECTRICAL CONTRACTOR SHALL DEMOLISH EXISTING LIGHT FIXTURE INCLUDING BUT NOT LIMITED TO RACEWAY, CONDUCTORS, JUNCTION BOXES, LIGHT SWITCHES AND OCCUPANCY SENSORS, ETC., BACK TO SOURCE PANELBOARD. CONTRACTOR SHALL FIELD VERIFY WHERE NECESSARY, AND SALVAGE EXISTING ELECTRICAL BOX AND CONDUIT SYSTEM IN AREAS WHERE INACCESSIBLE TO EXISTING PANELBOARD THAT MAY CONSIST OF CONDUITS EMBEDDED IN CONCRETE IN FLOORING OR WALLS.
5. ELECTRICAL CONTRACTOR SHALL DEMOLISH EXISTING SMOKE DETECTOR.
6. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR AND DEMOLISH EXISTING UNIT VENTILATOR ELECTRICAL CIRCUIT INCLUDING BUT NOT LIMITED TO RACEWAY, CONDUCTORS, JUNCTION BOXES, DISCONNECT SWITCHES, ETC. BACK TO SOURCE.

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Kavan Smith
KAVAN SMITH
NJ PROFESSIONAL ENGINEER LIC. No. 56794

ISSUED FOR BID
DATE: 07-11-2023

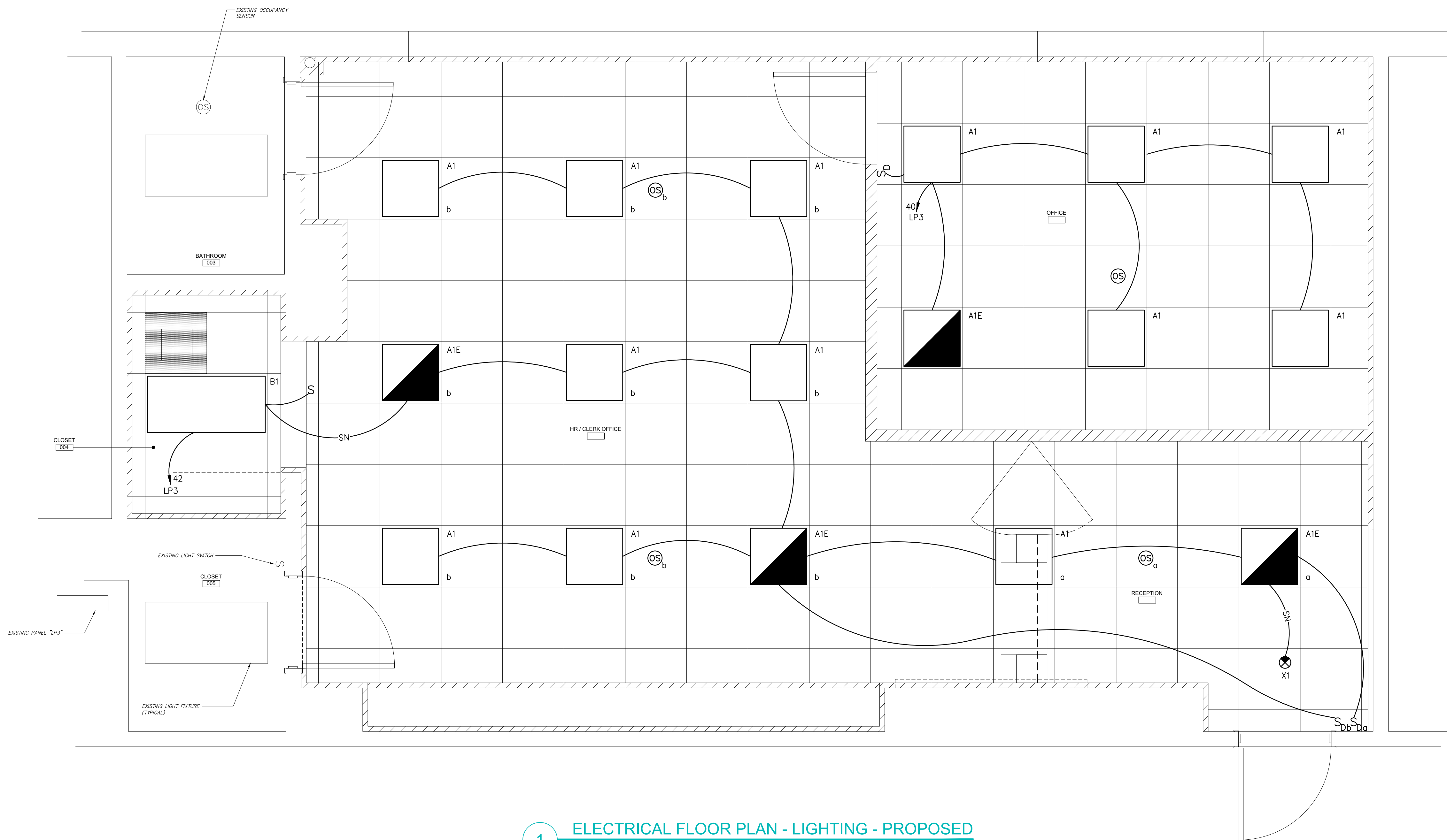
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NO.	REVISION	DATE	BY	CHK

ELECTRICAL FLOOR PLAN - DEMOLITION
CITY OF MARGATE
MARGATE MUNICIPAL BUILDING
OFFICE IMPROVEMENTS
NEW JERSEY
ATLANTIC COUNTY
CITY OF MARGATE

DRAWN BY	DESIGN BY	CHECKED BY	SCALE
R.S.	R.S.	K.S.	AS NOTED
DATE:	3/2023		
JOB No.:	01-14-C-003		
			E-1.1



1 ELECTRICAL FLOOR PLAN - LIGHTING - PROPOSED
SCALE: 1/2"=1'-0"

NOTES:

1. ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING E-1.0 APPLY TO THIS DRAWING.
2. THIS DRAWING IS DIAGRAMMATIC, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM EXISTING CONDITIONS AND INSTALLATION CLEARANCES PRIOR TO SHOP DRAWING SUBMISSIONS AND INSTALLATION. SHOULD THE CONTRACTOR DETERMINE THAT THE INSTALLATION OF ANY ELECTRICAL COMPONENT IS RESTRICTED OR NOT ABLE TO BE INSTALLED IN THE SUGGESTED LOCATION THE CONTRACTOR SHALL READDRESS THE INSTALLATION ACCORDINGLY AND IN COMPLIANCE WITH NEC2020, AT NO ADDITIONAL COST.
3. ALL WORK REQUIRED TO SUCCESSFULLY COMPLETE THIS PROJECT SHALL BE INCLUDED IN THE SCOPE OF WORK. IT IS THE INTENT OF THE PLANS AND SPECIFICATIONS TO SECURE A COMPLETELY INTERCONNECTED AND FUNCTIONING SYSTEM AND IF ANY WORKMANSHIP OR MATERIALS BE REQUIRED WHICH ARE OBVIOUSLY NECESSARY TO CARRY OUT THE FULL INTENT AND MEANING OF THE PLANS AND SPECIFICATIONS OR TO BE REASONABLY INFERRED THEREFROM, THE COST OF SUCH WORKMANSHIP OR MATERIALS SHALL BE INCLUDED IN THE SCOPE OF WORK.
4. CONTRACTOR IS RESPONSIBLE FOR REPAIRING, REPLACING AND RESTORING ANY AREAS OF FLOOR, CEILING AND/OR WALLS DAMAGED AS A RESULT OF NEW WORK, REPAIRED, OR REPLACED, AREAS SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THEIR ORIGINAL CONDITION.
5. REFER TO DRAWING E-3.1 FOR LIGHTING FIXTURE SCHEDULE, LIGHTING CONTROL WIRING DIAGRAMS AND PANELBOARD SCHEDULES.

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DATE: 3/11/2023
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NO.	REVISION	DATE	BY	CHK

ELECTRICAL FLOOR PLAN - LIGHTING - PROPOSED
CITY OF MARGATE
MARGATE MUNICIPAL BUILDING
OFFICE IMPROVEMENTS
NEW JERSEY
ATLANTIC COUNTY

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
R.S.	R.S.	K.S.	AS NOTED
DATE:	3/2023	SHEET No.:	E-2.1
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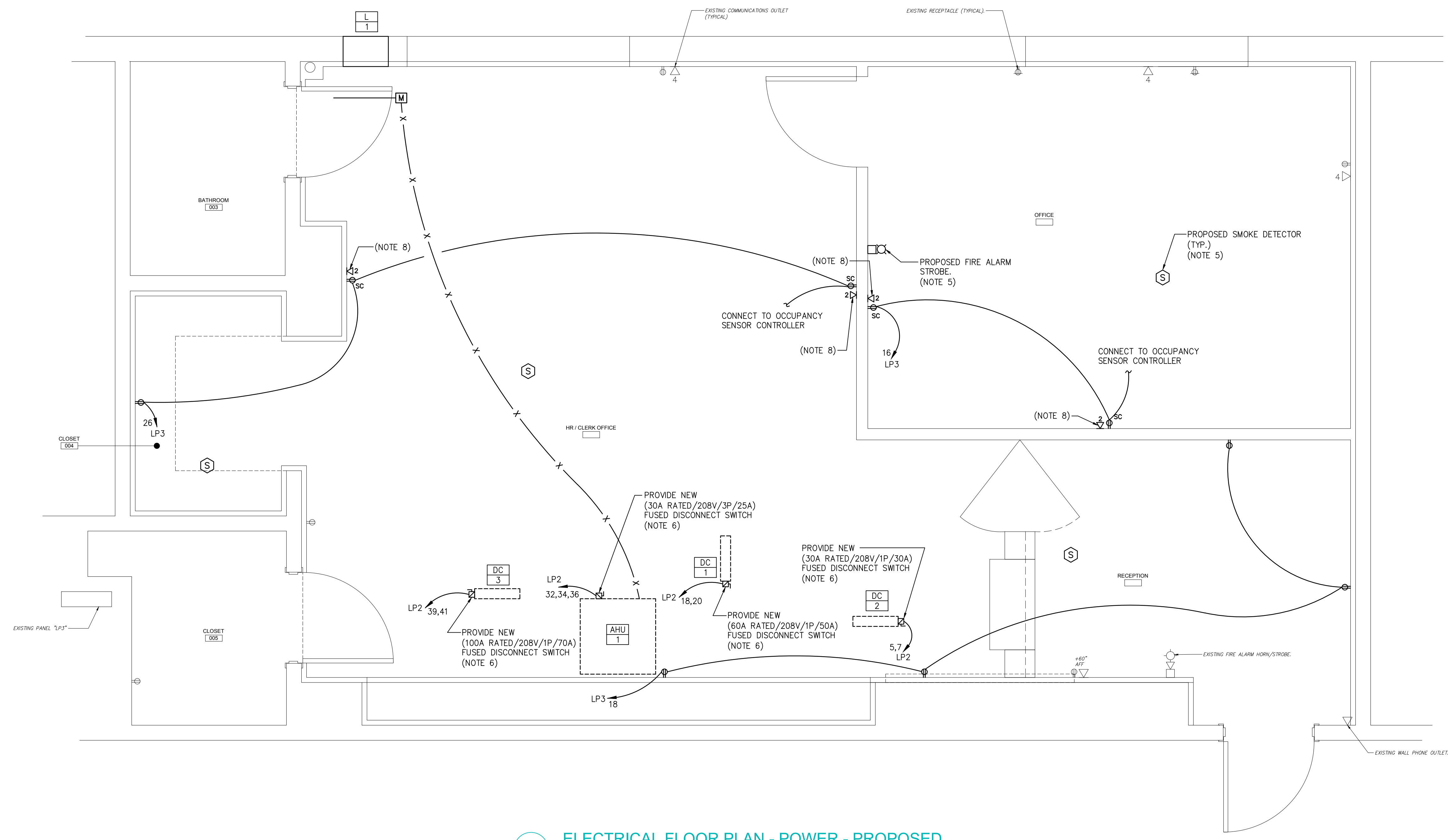
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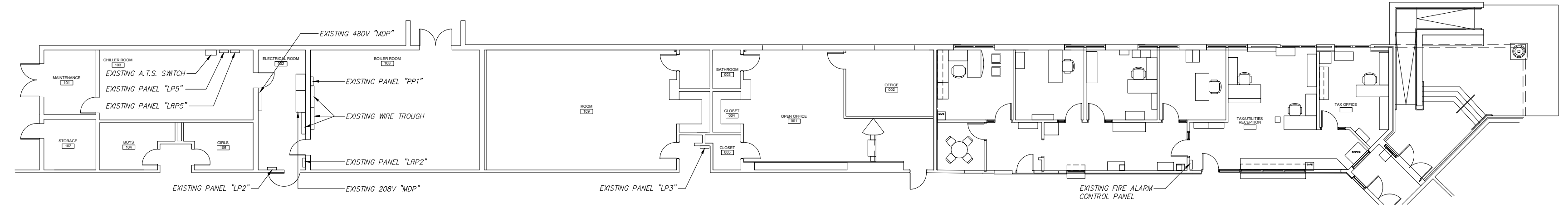
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1 ELECTRICAL FLOOR PLAN - POWER - PROPOSED
 SCALE: 1/2"=1'-0"



2 PARTIAL EXISTING ELECTRICAL POWER PLAN
 SCALE: 1/16"=1'-0"

NOTES:

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- THIS DRAWING IS DIAGRAMMATIC, IT IS THE CONTRACTORS RESPONSIBILITY TO CONFIRM EXISTING CONDITIONS AND INSTALLATION CLEARANCES PRIOR TO SHOP DRAWING SUBMISSIONS AND INSTALLATION. SHOULD THE CONTRACTOR DETERMINE THAT THE INSTALLATION OF ANY ELECTRICAL COMPONENT IS RESTRICTED OR NOT ABLE TO BE INSTALLED IN THE SUGGESTED LOCATION THE CONTRACTOR SHALL READDRESS THE INSTALLATION ACCORDINGLY AND IN COMPLIANCE WITH NEC2020, AT NO ADDITIONAL COST.
- ALL WORK REQUIRED TO SUCCESSFULLY COMPLETE THIS PROJECT SHALL BE INCLUDED IN THE SCOPE OF WORK. IT IS THE INTENT OF THE PLANS AND SPECIFICATIONS TO SECURE A COMPLETELY INTERCONNECTED AND FUNCTIONING SYSTEM AND IF ANY WORKMANSHIP OR MATERIALS BE REQUIRED WHICH ARE OBVIOUSLY NECESSARY TO CARRY OUT THE FULL INTENT AND MEANING OF THE PLANS AND SPECIFICATIONS OR TO BE REASONABLY INFERRED THEREFROM, THE COST OF SUCH WORKMANSHIP OR MATERIALS SHALL BE INCLUDED IN THE SCOPE OF WORK.
- CONTRACTOR IS RESPONSIBLE FOR REPAIRING, REPLACING AND RESTORING ANY AREAS OF FLOOR, CEILING AND/OR WALLS DAMAGED AS A RESULT OF NEW WORK, REPAIRED, OR REPLACED, AREAS SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THEIR ORIGINAL CONDITION.
- PROVIDE ALL WIRING, CONDUIT, PROGRAMMING, TESTING, EXPANSION CARDS, SLAVE FIRE ALARM CONTROL PANELS, ETC. TO CONNECT NEW FIRE ALARM DEVICES INTO THE EXISTING FIRE ALARM SYSTEM IN ACCORDANCE WITH NFPA 72. FIELD VERIFY THE LOCATION, BRAND, CATALOG NUMBER OF ALL EXISTING FIRE ALARM PANELS, CONTROLLERS, DEVICES, ETC. AND INCLUDE ALL COSTS FOR THE CONNECTION OF THE NEW FIRE ALARM DEVICES IN THE CONTRACTOR'S BID. THE EXISTING FIRE ALARM SYSTEM SHALL BE KEPT IN SERVICE DURING CONSTRUCTION. PROVIDE A FIRE WATCH FOR AREAS WHERE DETECTION IS TEMPORARILY REMOVED. PROVIDE TESTING AND INSPECTION AS REQUIRED PER NFPA72 AND THE AUTHORITY HAVING JURISDICTION.
- COORDINATE EXACT LOCATION OF COMBINATION FUSED DISCONNECT SWITCH WITH MANUFACTURER PRIOR TO FINAL ROUGH-IN.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH HVAC CONTROLS CONTRACTOR FOR ALL LOW-VOLTAGE WIRING REQUIRED.
- PROVIDE CAT 5/6 PLENUM RATED CABLE TO NEAREST MDF/IDF CLOSET.

ELECTRICAL FLOOR PLAN - POWER - PROPOSED
 CITY OF MARGATE
 MARGATE MUNICIPAL BUILDING
 OFFICE IMPROVEMENTS
 ATLANTIC COUNTY
 NEW JERSEY

DRAWN BY	DESIGN BY	CHECKED BY	SCALE
R.S.	R.S.	K.S.	AS NOTED
DATE:	3/2023		
JOB No.:	01-14-C-003		E-2.2









Margate Office Renovation - Mechanical-Electrical

Final Audit Report

2023-07-11

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