

ABBREVIATIONS

ABBREV	ABBREVIATION	IB	INVERTED BUCKET TRAP
ABD	ABANDONED	IL	INTERMEDIATE LANDING
ABV	ABOVE	IN	INCH OR INCHES
AC	AIR CONDITIONING	INV	INVERT ELEVATION
AD	ACCESS DOOR		
AFF	ABOVE FINISHED FLOOR	KVA	KILOVOLT AMPERES
AHU	AIR HANDLING UNIT	KW	KILOWATT
ALUM	ALUMINUM		
APD	AIR PRESSURE DROP	L	LENGTH
APPROX	APPROXIMATE	LAT	LEAVING AIR TEMPERATURE
ARCH	ARCHITECT, ARCHITECTURAL	LB(S)	POUND(S)
ARRG	ARRANGEMENT	LDB	LEAVING DRY BULB
AST	ABOVEGROUND STORAGE TANK	LF	LINEAR FEET
ATC	AUTOMATIC TEMPERATURE	LP	LOW PRESSURE
ATM	ATMOSPHERE	LVG	LEAVING
ATR	AIR TEMPERATURE	LWB	LEAVING WET BULB
ATU	AIR TERMINAL UNIT	LWT	LEAVING WATER TEMPERATURE
AVG	AVERAGE	MAX	MAXIMUM
AWT	AVERAGE WATER TEMPERATURE	MECH	MECHANICAL
		MBH	THOUSAND BTU'S PER HOUR
BAS	BUILDING AUTOMATIC SYSTEM	MFR	MANUFACTURER
BWV	BACK WATER VALVE	MIN	MINIMUM
BHP	BRAKE HORSEPOWER	MO	MOTOR OPERATOR
BLDG	BUILDING	MS	MOUNTED
BOP	BOTTOM OF PIPE	MTD	
BTM	BOTTOM	NAT	NATURAL
BTUH	BRITISH THERMAL UNITS PER HOUR	NC	NOISE CRITERIA
BFV	BACKFLOW PREVENTER	N.C.	NORMALLY CLOSED
		NIC	NOT IN CONTRACT
°C	DEGREES CELSIUS	N.O.	NORMALLY OPEN
CAV	CONSTANT AIR VOLUME	NO.	NUMBER
CC	COOLING COIL		
CD	CEILING DIFFUSER	OA	OUTDOOR AIR
CFM	CUBIC FEET PER MINUTE	OC	ON CENTER
CLG	CEILING	OED	OPEN ENDED DUCT
CO	CLEANOUT / CARBON MONOXIDE	OF	OVERFLOW DRAIN
CO ₂	CARBON DIOXIDE	OS&Y	OUTSIDE SCREW AND YOKE
COMP	COMPRESSED		
CONC	CONCRETE	PCU	PRECISION COOLING UNIT
CONN	CONNECTION, CONNECT	PD	PRESSURE DROP
CONT	CONTINUATION	PF	POWER FACTOR
CP	CONDENSATE PUMP	PG	PROPYLENE GLYCOL
COND	CONDENSATE RETURN UNIT	PH	PHASE
CU FT	CUBIC FEET	PHC	PREHEAT COIL
CUH	CABINET TO EXISTING	PLBG	PLUMBING
CY	CONNECT TO EXISTING	PPH	POUNDS PER HOUR (STEAM)
CW	DOMESTIC COLD WATER PIPE	PPM	PARTS PER MILLION
		PRESS	PRESSURE
D	DRAIN OR DEPTH	PRV	PRESSURE REDUCING VALVE
DB	DRY BULB OR DECIBEL	PSIG	POUNDS PER SQUARE INCH (GAGE)
DBA	DECIBAL (REFERENCE "A" SCALE)	PUH	PROPELLER UNIT HEATER
DBL	DOUBLE	PVC	POLYVINYL CHLORIDE
DCP	DIGITAL CONTROL PANEL	QTY	QUANTITY
DDC	DIRECT DIGITAL CONTROL	R	RADIUS
DESIG	DESIGNATION	RA	RETURN AIR
DF	DRINKING FOUNTAIN	RAD	RADIATED
DFU	DRAINAGE FIXTURE UNITS	RD	ROOF DRAIN
DIA	DIAMETER	REQD	REQUIRED
DIFF	DIFFUSER	RH	RELATIVE HUMIDITY
DN	DOWN	RHC	REHEAT COIL
DW	DOMESTIC WATER	RHP	RADIANT HEATING PANEL
DWG	DRAWING	RL	RAILLEADER
		RUF	RELIEF AIR
EA	EXHAUST AIR	RPM	REVOLUTIONS PER MINUTE
EAT	ENTERING AIR TEMPERATURE	RPZ	REDUCED PRESSURE ZONE
EDB	ENTERING DRY BULB	RX	REMOVE EXISTING
EFF	EFFICIENCY	SA	SUPPLY AIR
EG	ETHYLENE GLYCOL	SAF	SQUARE FEET
EJ	EXPANSION JOINT	SH	SENSIBLE HEAT OR SHOWER
ELEC	ELECTRICAL, ELECTRIC	SL	SOUND LINING
ELEV	ELEVATION OR ELEVATOR	SP	STATIC PRESSURE
EMD	END OF MAIN DRIP	SPEC	SPECIFICATION/PROJECT MANUAL
ENT	ENTERING	SQ	SQUARE
ESP	EXTERNAL STATIC PRESSURE	SRD	SECONDARY (OVERFLOW) ROOF DRAIN
ETC	ET CETERA	SRL	SECONDARY (OVERFLOW) RAIN LEADER
EY	EYE WASH	SIS	STAINLESS STEEL
EWB	ENTERING WET BULB	STL	STEEL
EWC	ELECTRIC WATER COOLER	STRUCT	STRUCTURAL
EWT	ENTERING WATER TEMPERATURE	TEMP	TEMPERATURE
EX	EXISTING	TH	TOTAL HEAT
EXP	EXPOSED	TD	TRENCH DRAIN
		THD	THERMODYNAMIC TRAP
°F	DEGREES FEHRENHEIT	TSP	TOTAL STATIC PRESSURE
FAT	FLOAT & THERMOSTATIC TRAP	TYP	TYPICAL
FCU	FAN COOL UNIT	UC	DOOR UNDER CUT
FCVA	FLOOR CONTROL VALVE ASSEMBLY	UH	UNIT HEATER
FD	FLOOR DRAIN	UON	UNLESS OTHERWISE NOTED
FDC	FIRE DEPARTMENT CONNECTION	UST	UNDERGROUND STORAGE TANK
FF	FINISHED FLOOR	V	VOLTS
FHC	FIRE HOSE CABINET	VA	VOLT AMPERES
FHV	FIRE HOSE VALVE	VAV	VARIABLE AIR VOLUME
FL	FLOOR	VEL	VELOCITY
FND	FOUNDATION DRAINAGE	VFC	VARIABLE FREQUENCY CONTROLLER
FOB	FLAT ON BOTTOM	VTR	VENT THRU ROOF
FOT	FLAT ON TOP	W	WIDTH
FPI	FINS PER INCH	WB	WET BULB
FPM	FEET PER MINUTE	WC	WATER COLUMN
FPS	FEET PER SECOND	WG	WATER GAGE
FS	FLOOR SINK	WI	WITH
FT HD	FEET O FHEAD PRESSURE	W/O	WITHOUT
FTR	FINNED TUBE RADIATION	WPD	WATER PRESSURE DROP
GA	GAGE		
GAL	GALLON		
GALV	GALVANIZED		
GPH	GALLONS PER HOUR		
GPM	GALLONS PER MINUTE		
H	HEIGHT		
HED	HOSE AND DRAIN		
HORIZ	HORIZONTAL		
HP	HORSEPOWER		
H.P.	HIGH PRESSURE		
HVAC	HEATING, VENTILATING & AIR CONDITIONING		
HW	DOMESTIC HOT WATER PIPE		
HWR	DOMESTIC HOT WATER RECIRCULATING		
HZ	HERTZ		

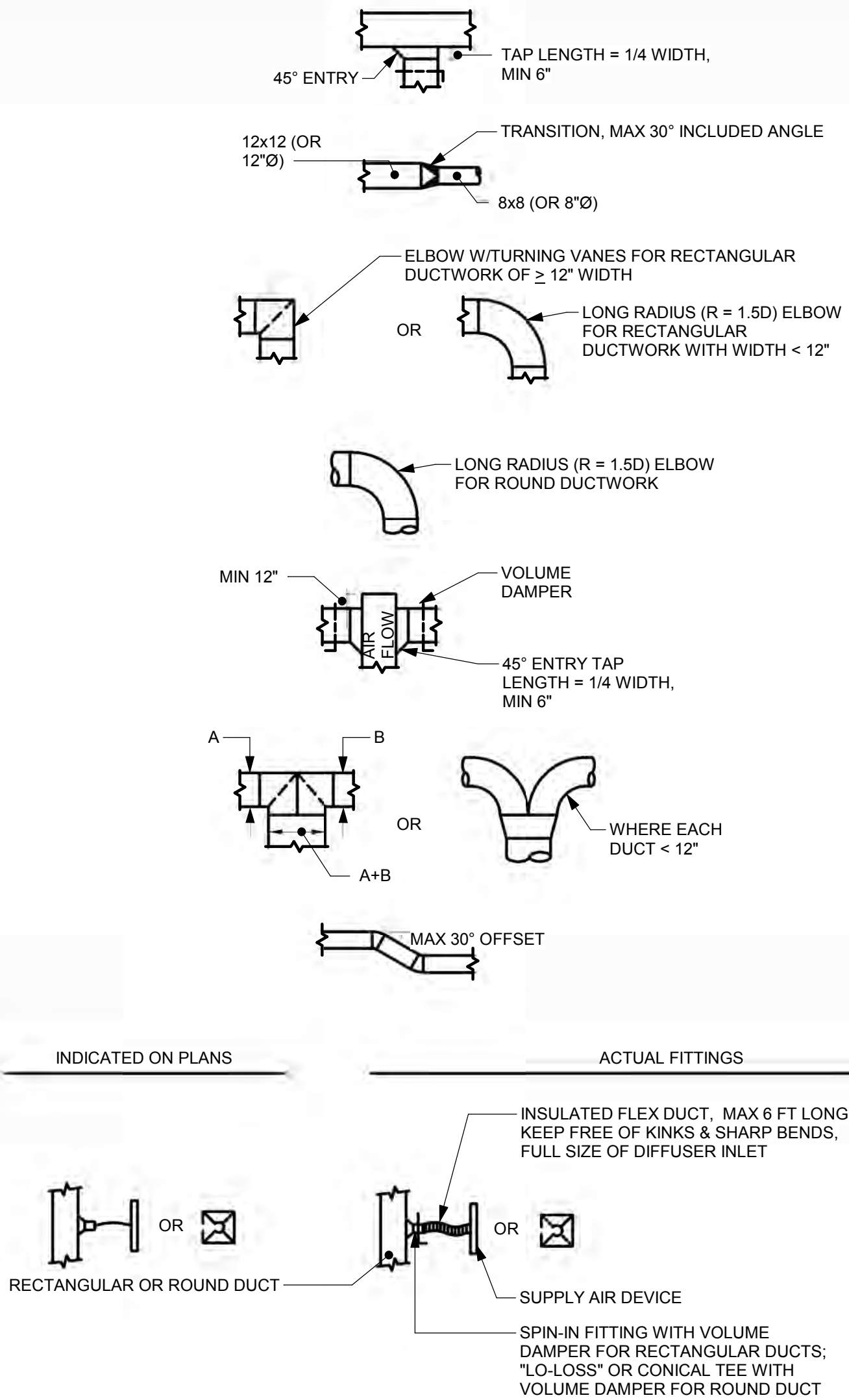
SYMBOLS

SUPPLY AIR DUCT (UP,DOWN)	
RETURN/OUTDOOR/RELIEF AIR DUCT (UP,DOWN)	
EXHAUST AIR DUCT (UP,DOWN)	
FIRE DAMPER WITH ACCESS DOOR	
SMOKE DAMPER WITH ACCESS DOOR	
COMBINATION FIRE AND SMOKE DAMPER WITH ACCESS DOOR	
MANUAL VOLUME DAMPER	
FLEXIBLE CONNECTION (DUCT)	
SOUND ATTENUATOR	
SOUND LINED DUCTWORK	
TRANSITION ROUND TO RECTANGULAR	
DUCT (SIZE IN INCHES, FIRST FIGURE IS SIDE SHOWN)	
DUCT OFFSET UP IN DIRECTION OF ARROW	
DUCT OFFSET DOWN IN DIRECTION OF ARROW	
ROUND FLEXIBLE DUCT	
SUPPLY AIR TERMINAL UNIT	
SUPPLY AIR TERMINAL UNIT WITH REHEAT COIL	
FAN POWERED AIR TERMINAL UNIT WITH HEATING COIL	
DUCT MOUNTED REHEAT COIL	
SUPPLY AIR DEVICE	
RETURN AIR DEVICE	
EXHAUST AIR DEVICE	
LINEAR SLOT DIFFUSER WITH PLENUM	
SIDEWALL DIFFUSER W/ FIELD FABRICATED PLENUM	
DUCT OR WALL MOUNTED AIR DEVICE	
PROPELLER UNIT HEATER	
FINNED TUBE RADIATION OR RADIANT HEATING PANEL	
RETURN AIR FLOW DIRECTION	
SUPPLY AIR FLOW DIRECTION	
DIAMETER	
CUBIC FEET PER MINUTE	
CENTER LINE	
FLAT OVAL	
AREA DRAIN	
FLOOR DRAIN	
ROOF DRAIN/SECONDARY (OVERFLOW) ROOF DRAIN	
FLOOR SINK	
TRENCH DRAIN	
INVERT ELEVATION	
CLEANOUT IN HORIZONTAL	
CLEANOUT IN VERTICAL	
DOMESTIC WATER BACKFLOW PREVENTER	
BACK WATER VALVE (ARROW INDICATES DIRECTION OF FLOW)	
SHOCK ABSORBER	
HOSE BIBB	
NON-FREEZE CONCEALED OUTLET WALL HYDRANT	
TRAP PRIMER PIPE	
SPACE TEMPERATURE SENSOR OR THERMOSTAT	
SPACE HUMIDITY SENSOR OR HUMIDISTAT	
SPACE CARBON DIOXIDE SENSOR	
DUCT OR PIPE MOUNTED TEMPERATURE SENSOR/TRANSMITTER	
DUCT MOUNTED HUMIDITY SENSOR/TRANSMITTER	
DUCT MOUNTED CARBON DIOXIDE SENSOR/TRANSMITTER	
DUCT MOUNTED SMOKE DETECTOR	
FREEZESTAT	
CONTROL DAMPER	
STATIC PRESSURE SENSOR/AIR FLOW STATION	
FAN INLET AIR FLOW MEASURING STATION	
TWO WAY CONTROL VALVE	
THREE WAY CONTROL VALVE	
FLOW SWITCH	
DIFFERENTIAL PRESSURE SWITCH	
DIFFERENTIAL PRESSURE TRANSMITTER	
CURRENT SENSING RELAY	
MANUAL OVERRIDE SWITCH	
MAGNETIC PRESSURE GAGE	
FLOW METER	

DRAWING CONVENTIONS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	INDICATES DIRECTION OF CUTTING PLANE		POINT OF CONNECTION, NEW TO EXISTING
	NUMBER OR LETTER INDICATES SECTION OR ELEVATION		DEMOLITION WORK TERMINATION POINT
	DRAWING NUMBER WHERE ELEVATION OR IS TAKEN OR DRAWN		INDICATES AIR DEVICE
	SANITARY RISER NUMBER		LETTER INDICATES AIR DEVICE DESIGNATION. REFER TO SCHEDULE FOR SIZE AND TYPE
	CORROSIVE WASTE RISER NUMBER		INDICATES SPECIAL NOTE
	DOMESTIC WATER RISER NUMBER		NUMBER INDICATES SPECIAL NOTE DESIGNATION. REFER TO SPECIAL NOTE LIST ON DRAWING FOR DESCRIPTION OF ITEM
	INDUSTRIAL WATER RISER NUMBER		SUPPLY AIR TERMINAL UNIT DESIGNATION
	STORM WATER RISER NUMBER		EXHAUST AIR TERMINAL UNIT DESIGNATION
	VACUUM RISER NUMBER		EXHAUST AIR TERMINAL UNIT SEQUENTIAL DESIGNATION
	COMPRESSED AIR RISER NUMBER		DESIGNATES FLOOR LOCATION OF EXHAUST AIR TERMINAL UNIT ("1" FOR FIRST, "2" FOR SECOND, "3" FOR THIRD, ETC.)
	NATURAL GAS RISER NUMBER		HEAVY LINE WEIGHT DESIGNATES NEW WORK ON NEW WORK PLANS; AND REMOVAL WORK ON DEMOLITION PLANS
	REVERSE OSMOSIS RISER NUMBER		LIGHT LINE WEIGHT DESIGNATES EXISTING WORK TO REMAIN
	FIRE PROTECTION RISER NUMBER		
	RAIN WATER COLLECTION RISER NUMBER		
	RAIN WATER SUPPLY RISER NUMBER		
	EQUIPMENT DESIGNATION		
	NUMERICAL DESIGNATION		
	EQUIPMENT SERVICE DESIGNATION		
	EQUIPMENT TYPE DESIGNATION		
	PLUMBING FIXTURE DESIGNATION, P-X		

DUCTWORK CONVENTIONS



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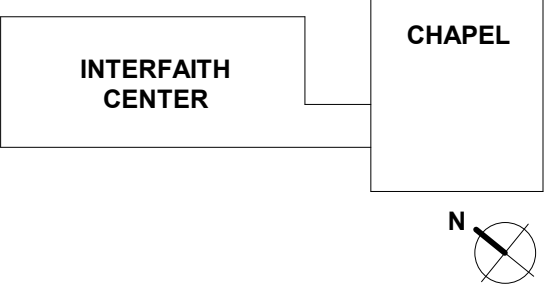
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KEY PLAN



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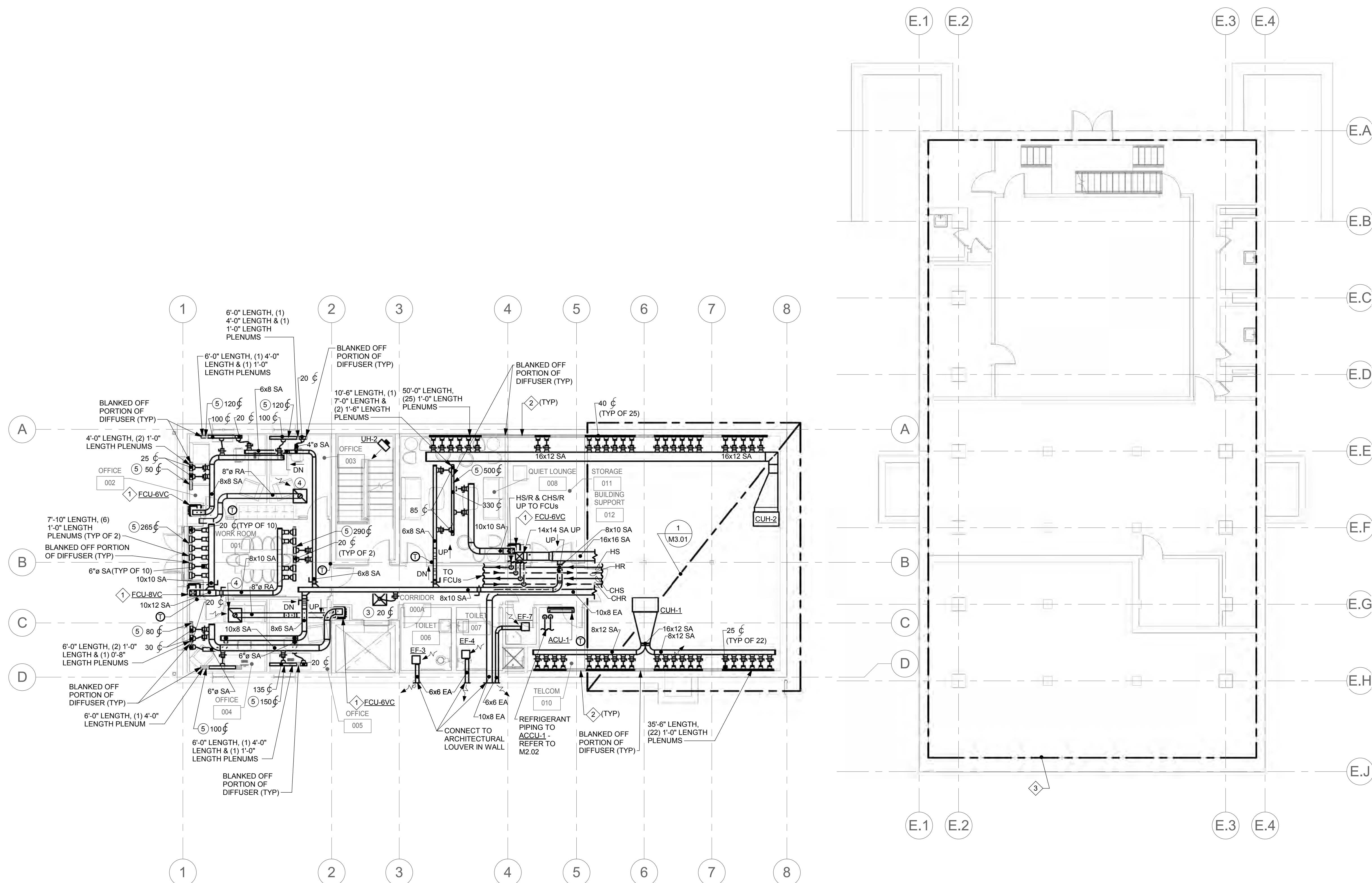
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FLOOR PLAN - LOWER LEVEL - HVAC

DRAWING NUMBER

M2.01

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1 FLOOR PLAN - LOWER LEVEL - HVAC

IF DRAWING IS REDUCED,
USE GRAPHIC SCALE

8' 0' 4' 8'

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

- SPECIAL NOTES:
- CONDENSING UNIT ON CONCRETE PAD AT GRADE.
 - REFER TO PART PLAN ON THIS SHEET FOR FLOOR-MOUNTED AIR DISTRIBUTION.
 - FLOOR-MOUNTED DIFFUSER: REFER TO M2.01 FOR DEFINITION OF ACTIVE & INACTIVE SECTIONS.
 - VERTICAL FAN COIL UNIT IN CLOSET. PROVIDE SIDE ACCESS PANEL WITH INTEGRAL RETURN AIR GRILLE.
 - DUCT DOWN TO RANGE HOOD.
 - 14'-0" LENGTH, (2) 5'-0" LENGTH & (1) 2'-0" LENGTH PLENUMS.
 - 5'-6" LENGTH, (1) 5'-6" LENGTH PLENUM.
 - EXCEPT FOR LIMITED WORK SHOWN ON THIS PLAN, HVAC WORK WITHIN THIS AREA IS NOT IN CONTRACT.

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INTERFAITH CENTER

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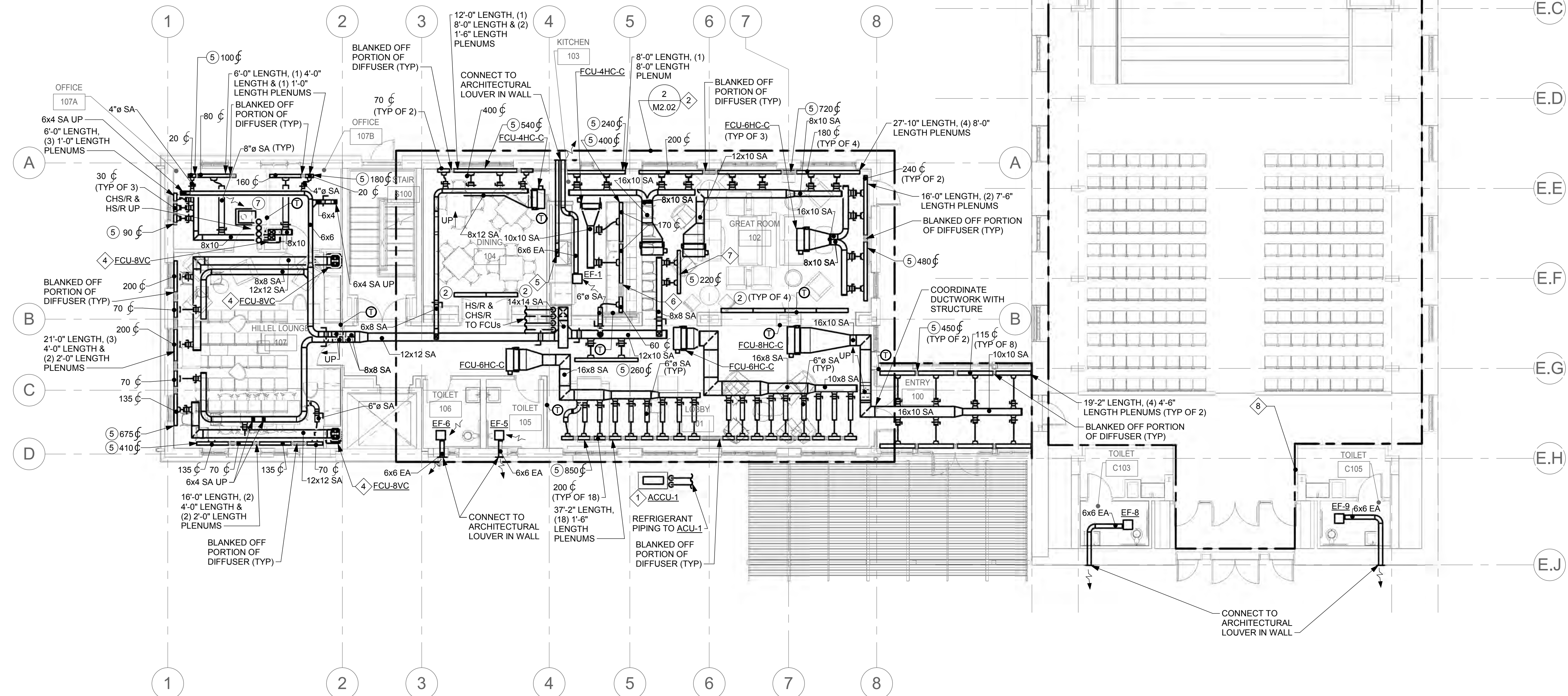
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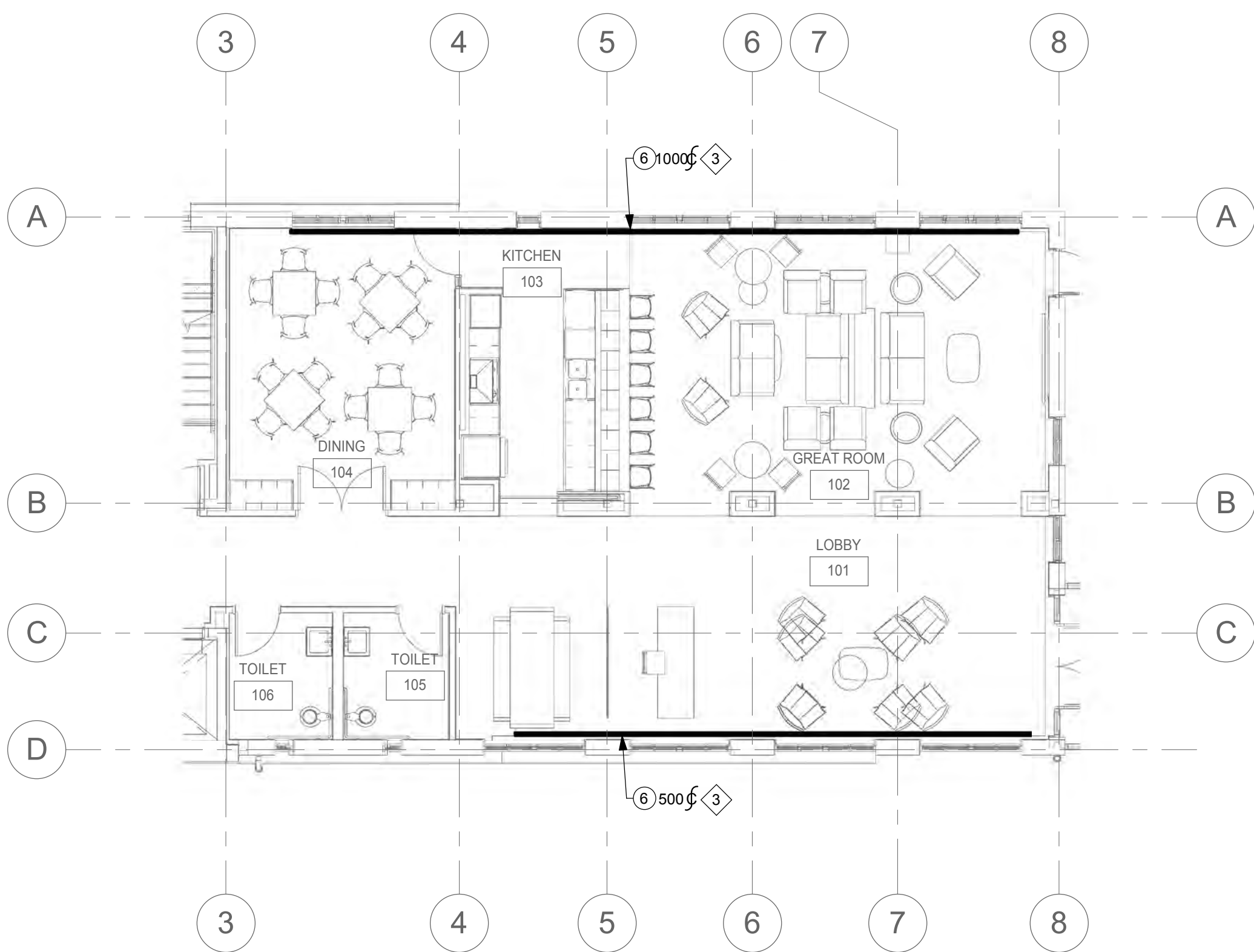
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FLOOR PLAN - GROUND
LEVEL - HVAC

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M2.02

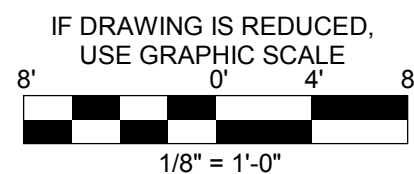
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1 FLOOR PLAN - GROUND LEVEL - HVAC
M2.02 1/8" = 1'-0"



2 PART FLOOR PLAN - GROUND LEVEL - HVAC
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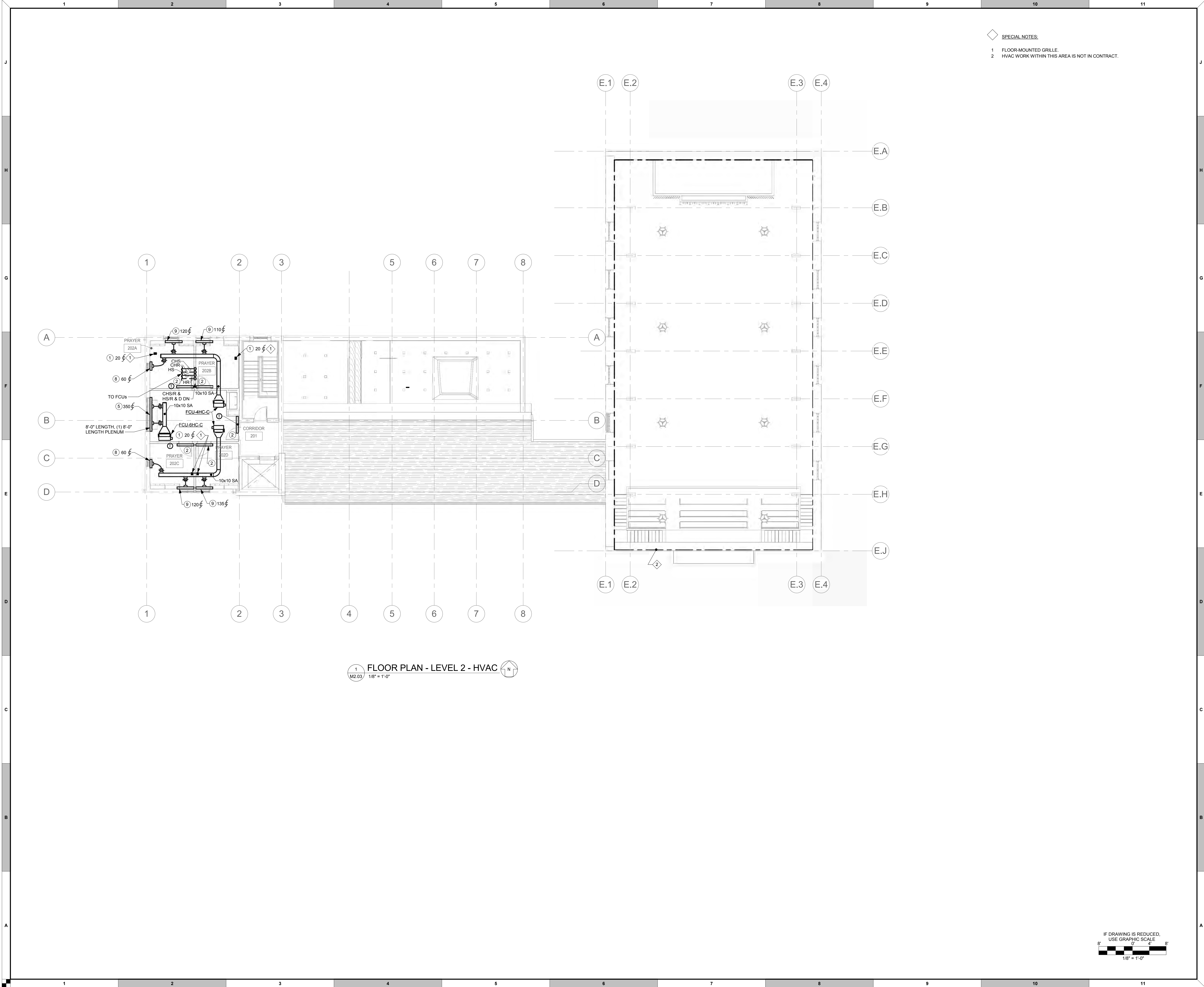


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STAPLE EDGE

STAPLE EDGE

STAPLE EDGE



- SPECIAL NOTES:**
- FLOOR-MOUNTED GRILLE.
 - HVAC WORK WITHIN THIS AREA IS NOT IN CONTRACT.

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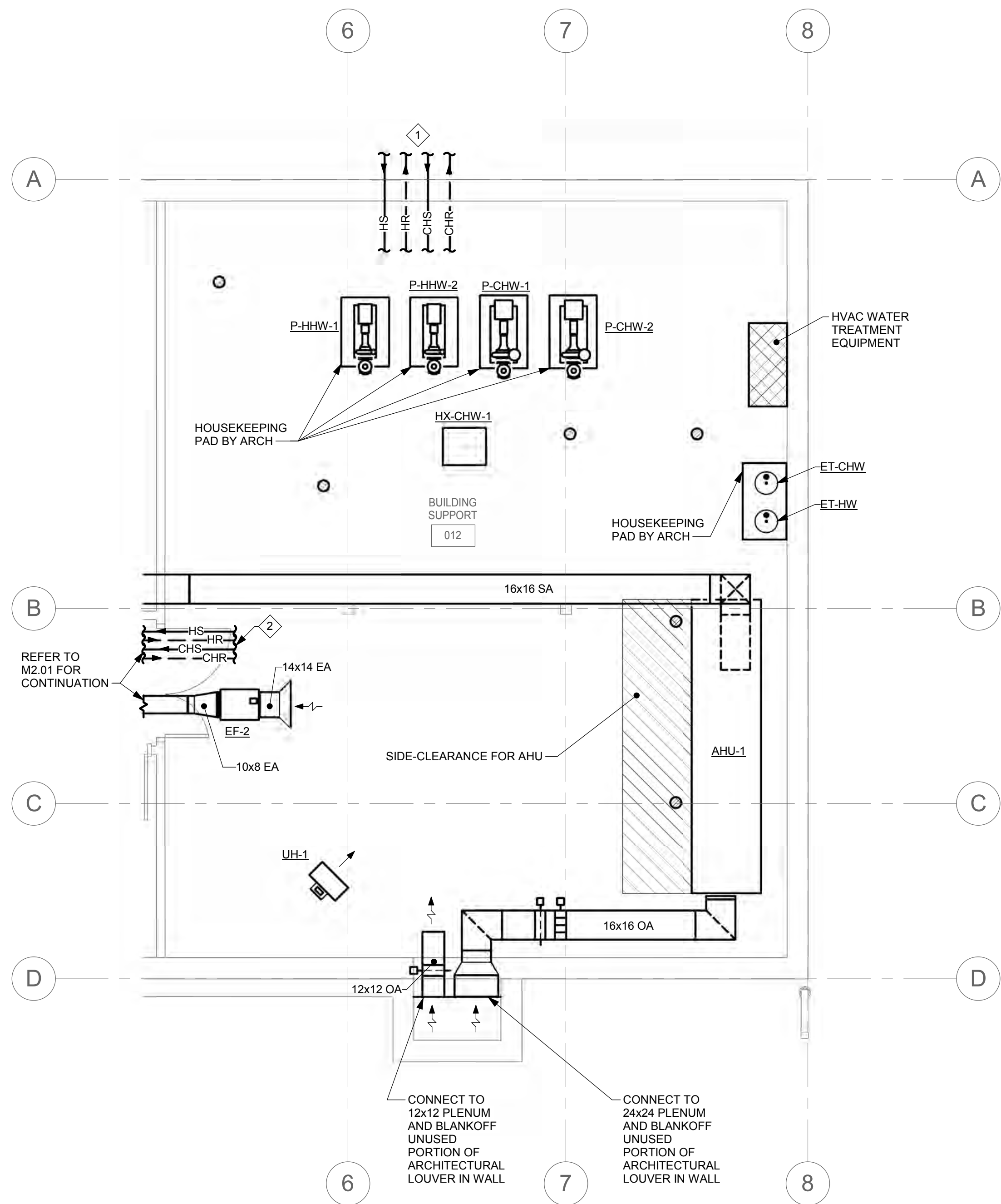
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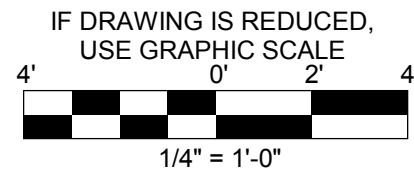
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1
M3.01
MECHANICAL ROOM PART PLAN - LOWER LEVEL - HVAC
1/4" = 1'-0"

SPECIAL NOTES:

- 1 TO CAMPUS DISTRIBUTION LOOP - REFER TO CIVIL DRAWINGS FOR CONTINUATION.
- 2 TO/FROM SYSTEM PUMPS - REFER TO SCHEMATICS FOR PIPING CONFIGURATION.



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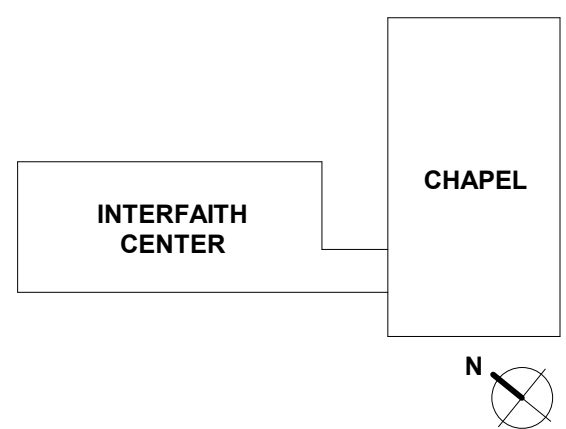
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MECHANICAL ROOM PART
PLAN - LOWER LEVEL - HVAC

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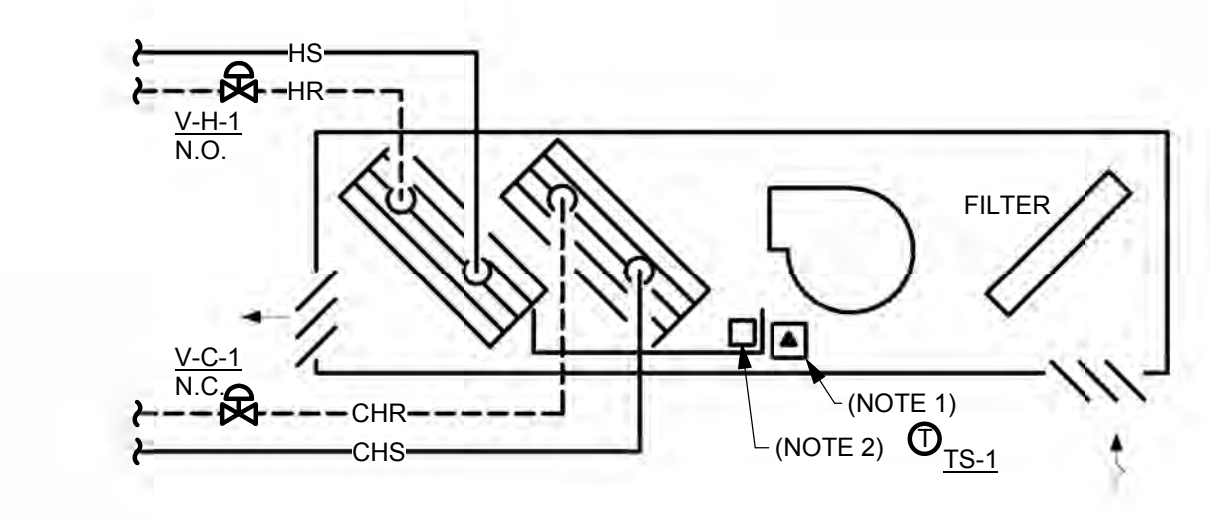
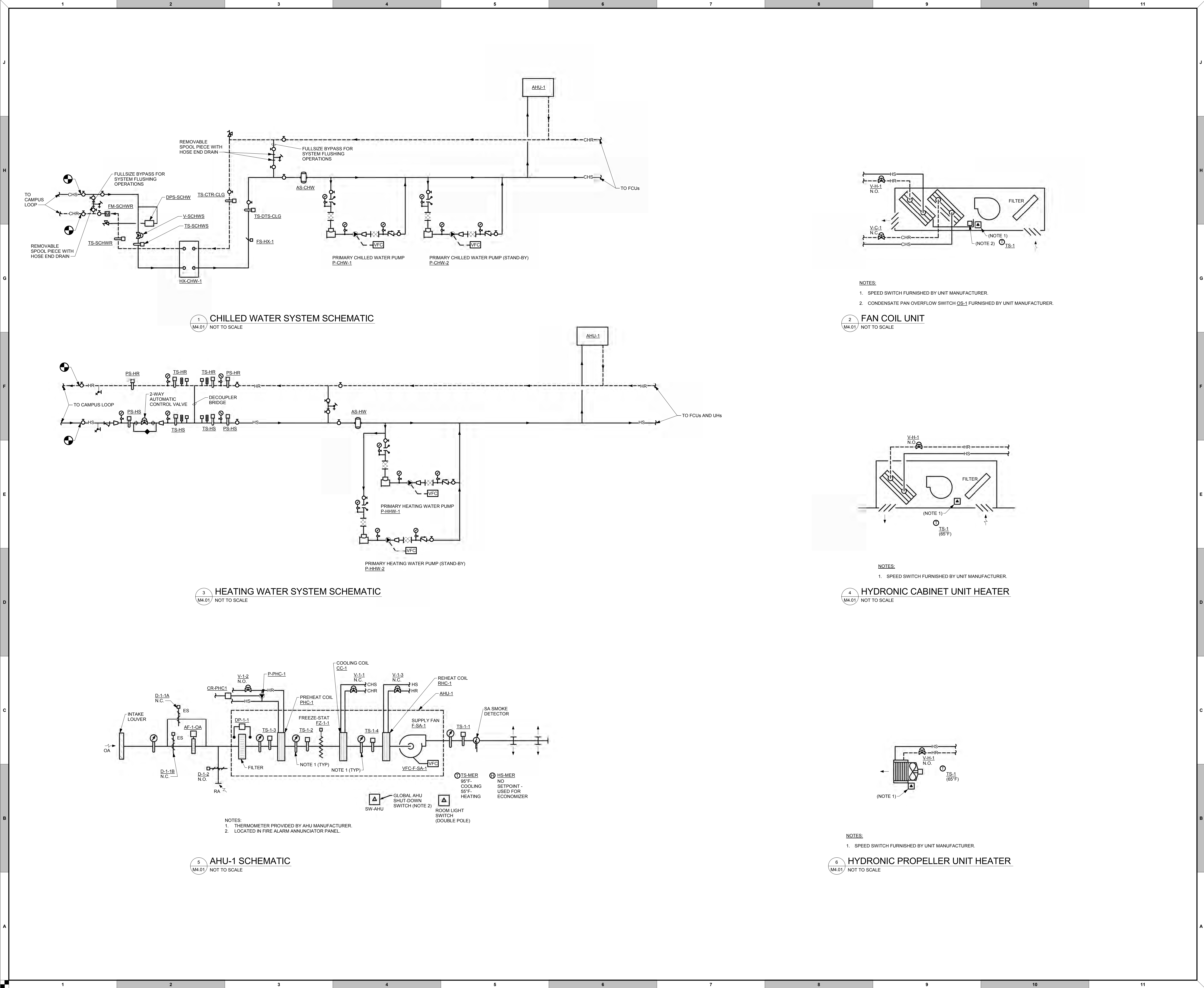
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STAPLE EDGE

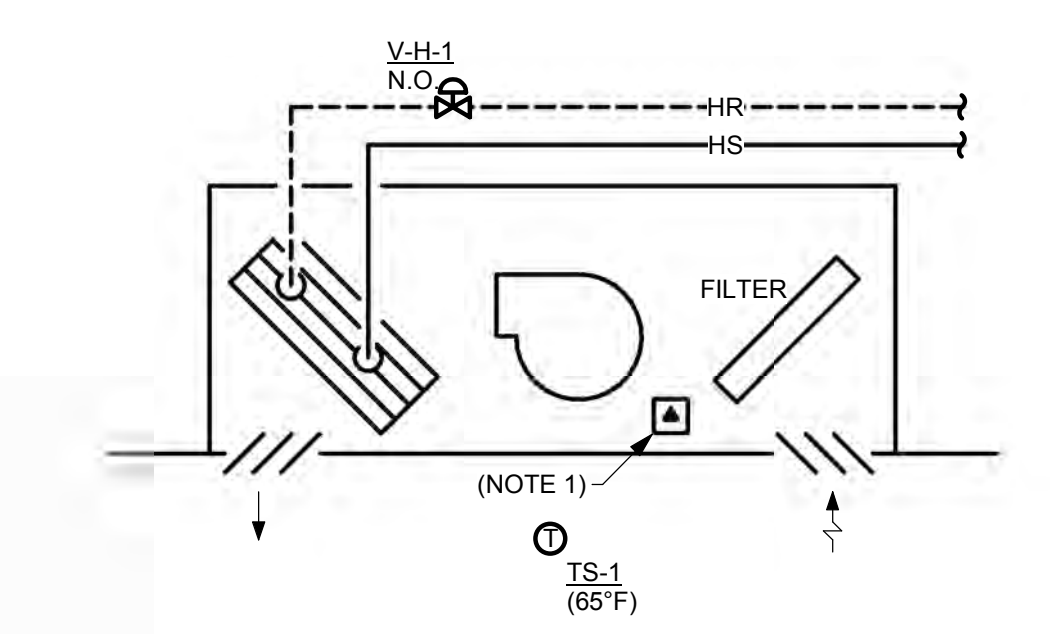
STAPLE EDGE

STAPLE EDGE



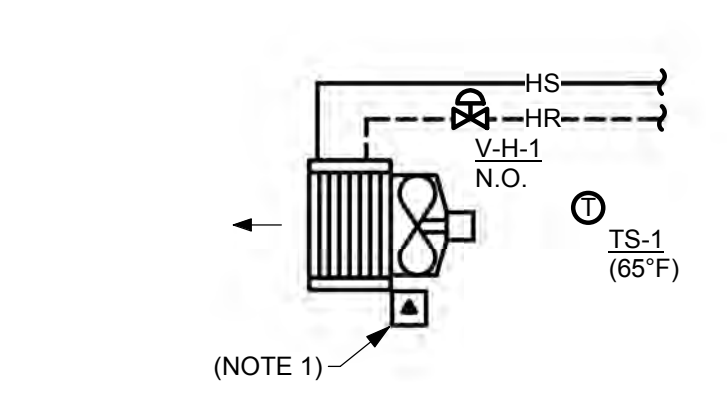
NOTES:
1. SPEED SWITCH FURNISHED BY UNIT MANUFACTURER.
2. CONDENSATE PAN OVERFLOW SWITCH OS-1 FURNISHED BY UNIT MANUFACTURER.

2 FAN COIL UNIT
M4.01 NOT TO SCALE



NOTES:
1. SPEED SWITCH FURNISHED BY UNIT MANUFACTURER.

4 HYDRONIC CABINET UNIT HEATER
M4.01 NOT TO SCALE



NOTES:
1. SPEED SWITCH FURNISHED BY UNIT MANUFACTURER.

6 HYDRONIC PROPELLER UNIT HEATER
M4.01 NOT TO SCALE

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DRAWING INFORMATION

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JOB NO.:	21641.00
DRAWN BY:	CBH

PROJECT DESIGN PHASE

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SCHMATICS

DRAWING NUMBER

M4.01

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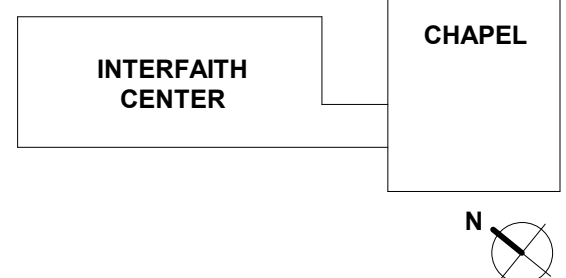
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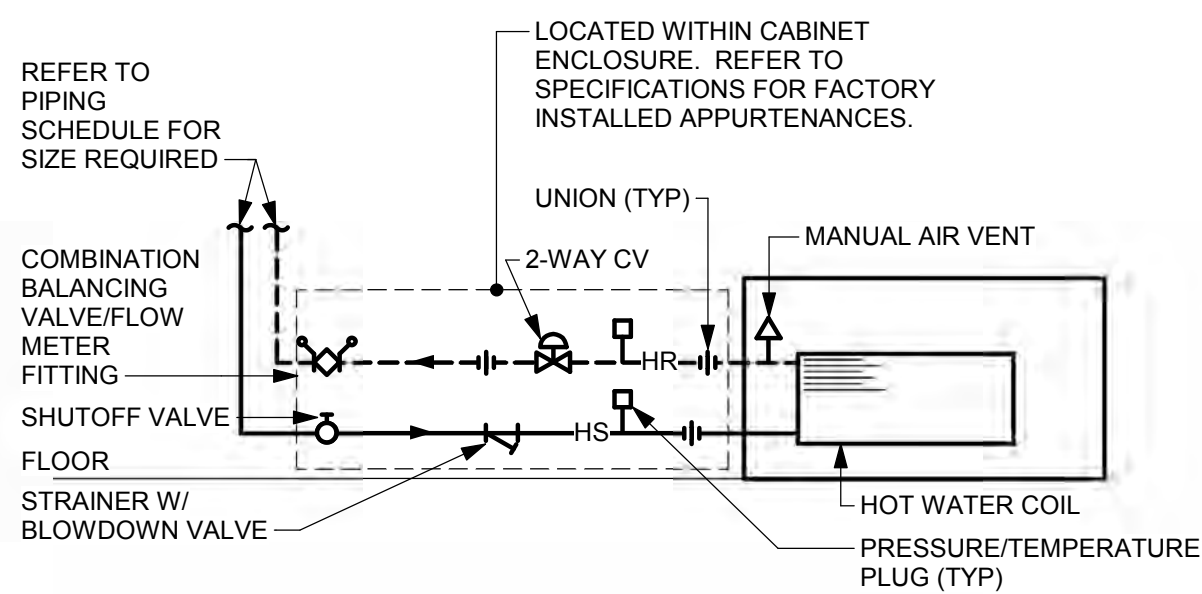
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DETAILS

DRAWING NUMBER

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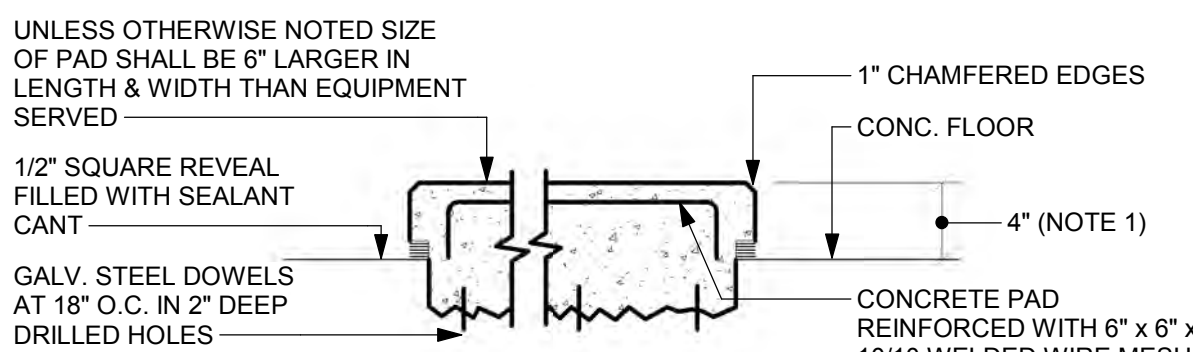
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PIPE SCHEDULE	
GPM	PIPE SIZE (IN)
0-3.5	3/4"
3.6-7.0	1"
7.1-13.0	1 1/4"

1 CABINET UNIT HEATER

M5.01 NOT TO SCALE

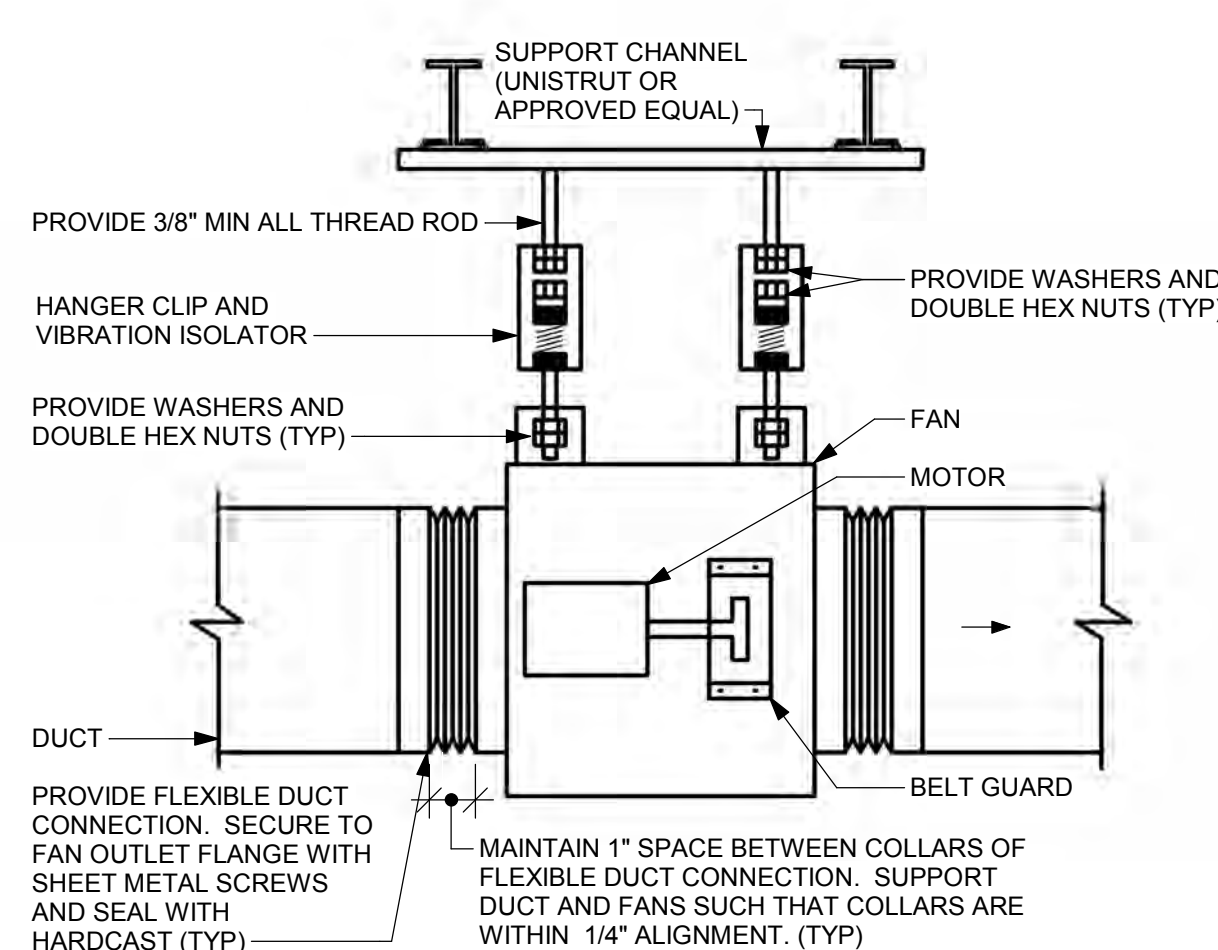


NOTE:

- FOR AIR HANDLING UNITS, INCREASE HOUSEKEEPING PAD HEIGHT TO ALLOW CONDENSATE TRAP INSTALLATION - REFER TO CONDENSATE DRAIN DETAIL. HOUSEKEEPING PAD HEIGHT SHALL NOT EXCEED 6" WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT.

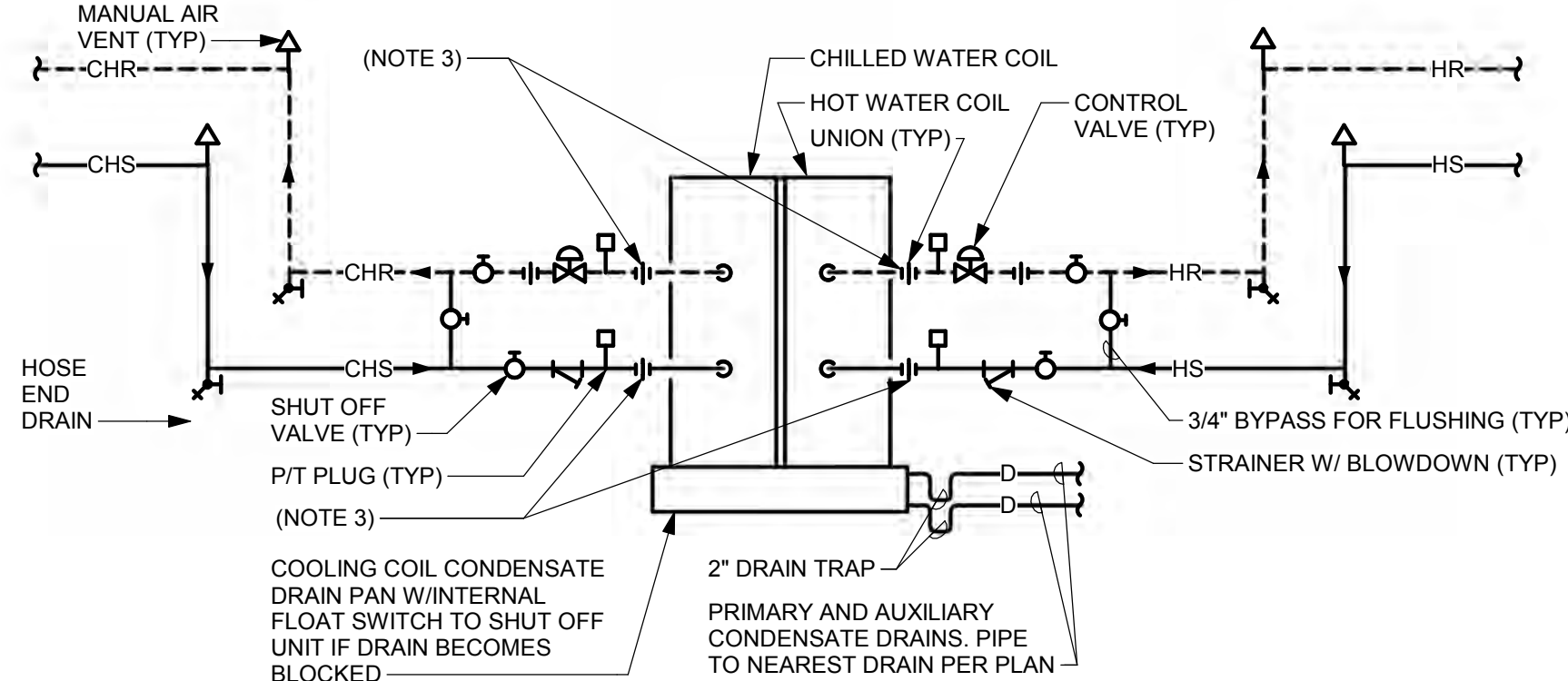
2 CONCRETE HOUSEKEEPING PAD

M5.01 NOT TO SCALE



3 IN-LINE FAN

M5.01 NOT TO SCALE



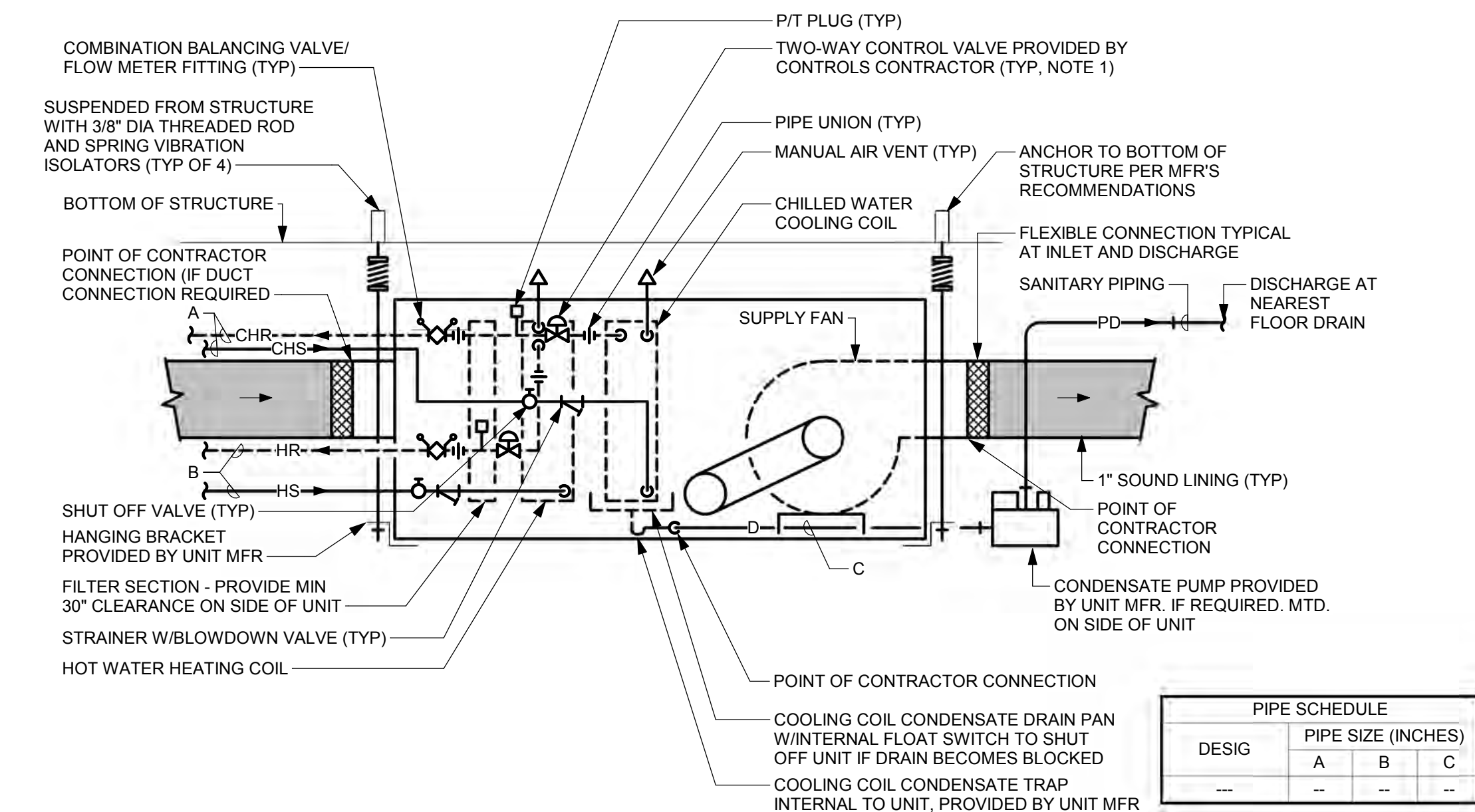
PIPE SCHEDULE	
GPM	PIPE SIZE (IN)
0 - 3.5	3/4"
3.6 - 7.0	1"
7.1 - 13.0	1 1/4"
13.1 - 21.0	1 1/2"

NOTES:

- COOLING AND HEATING COILS SHOWN, DELETE HEATING PIPING FOR COOLING ONLY UNIT.
- CONCEAL PIPING WITHIN WALLS AND CABINET ENCLOSURE.
- CONTRACTOR POINT OF CONNECTION

4 VERTICAL FAN COIL UNITS (TYPE VC)

M5.01 NOT TO SCALE



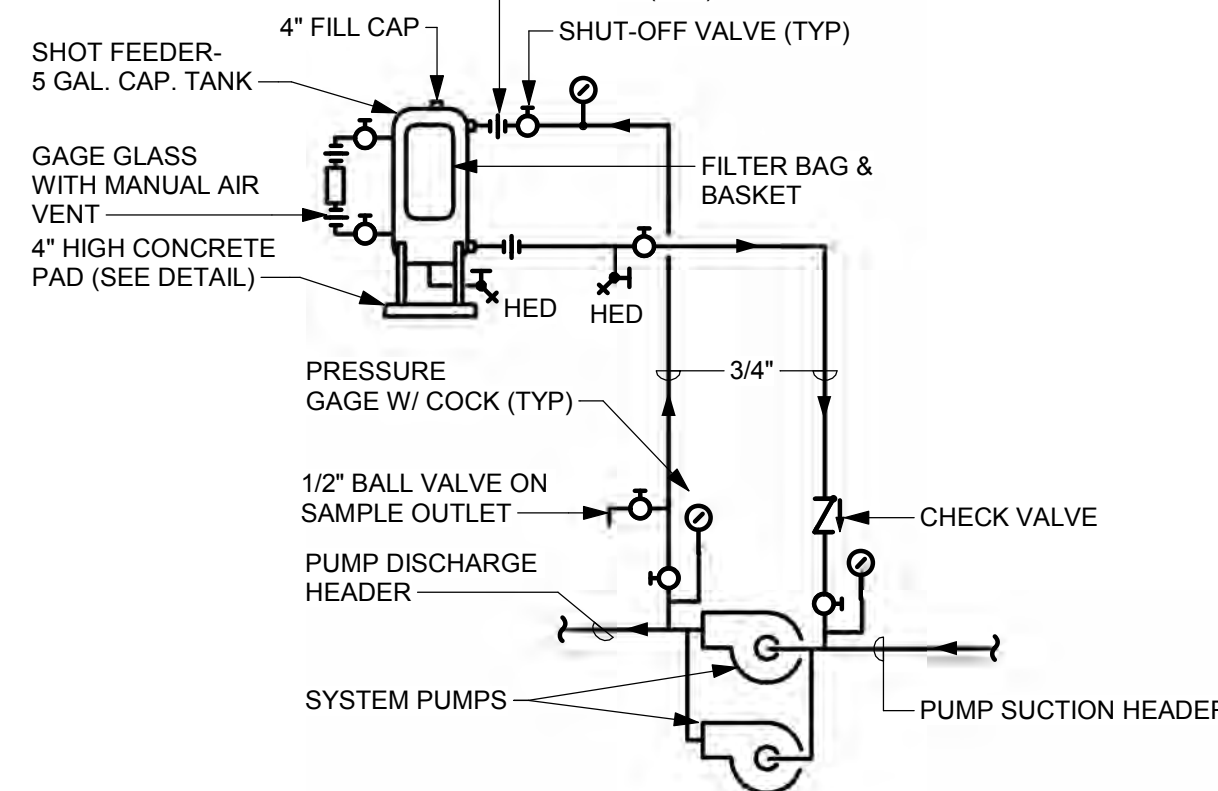
PIPE SCHEDULE	
DESIG	PIPE SIZE (INCHES)
A	B
C	D

NOTE:

- TWO WAY CONTROL VALVE SHOWN. REFER TO SCHEDULE FOR UNITS WITH THREE WAY CONTROL VALVE (WITH BALANCING VALVE IN COMMON PIPE).

5 SUSPENDED FAN COIL UNIT - COOLING AND HEATING

M5.01 NOT TO SCALE

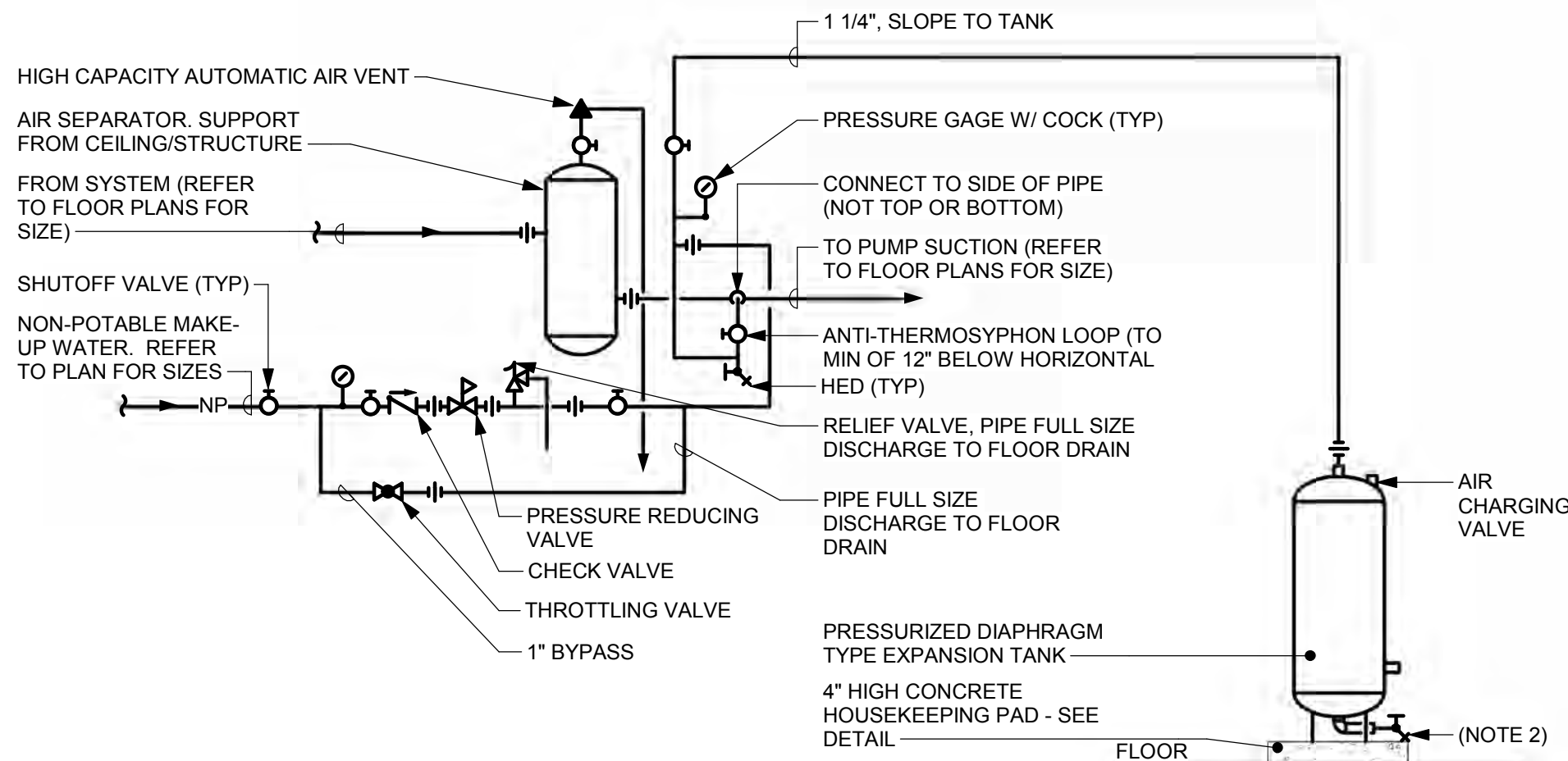


NOTES:

- PROVIDE A CHEMICAL SHOT FEEDER FOR EACH CLOSED SYSTEM.
- MECHANICAL CONTRACTOR SHALL COORDINATE PIPING AND TAP LOCATIONS WITH WATER TREATMENT CONTRACTOR.

6 CLOSED SYSTEM CHEMICAL SHOT FEEDER

M5.01 NOT TO SCALE

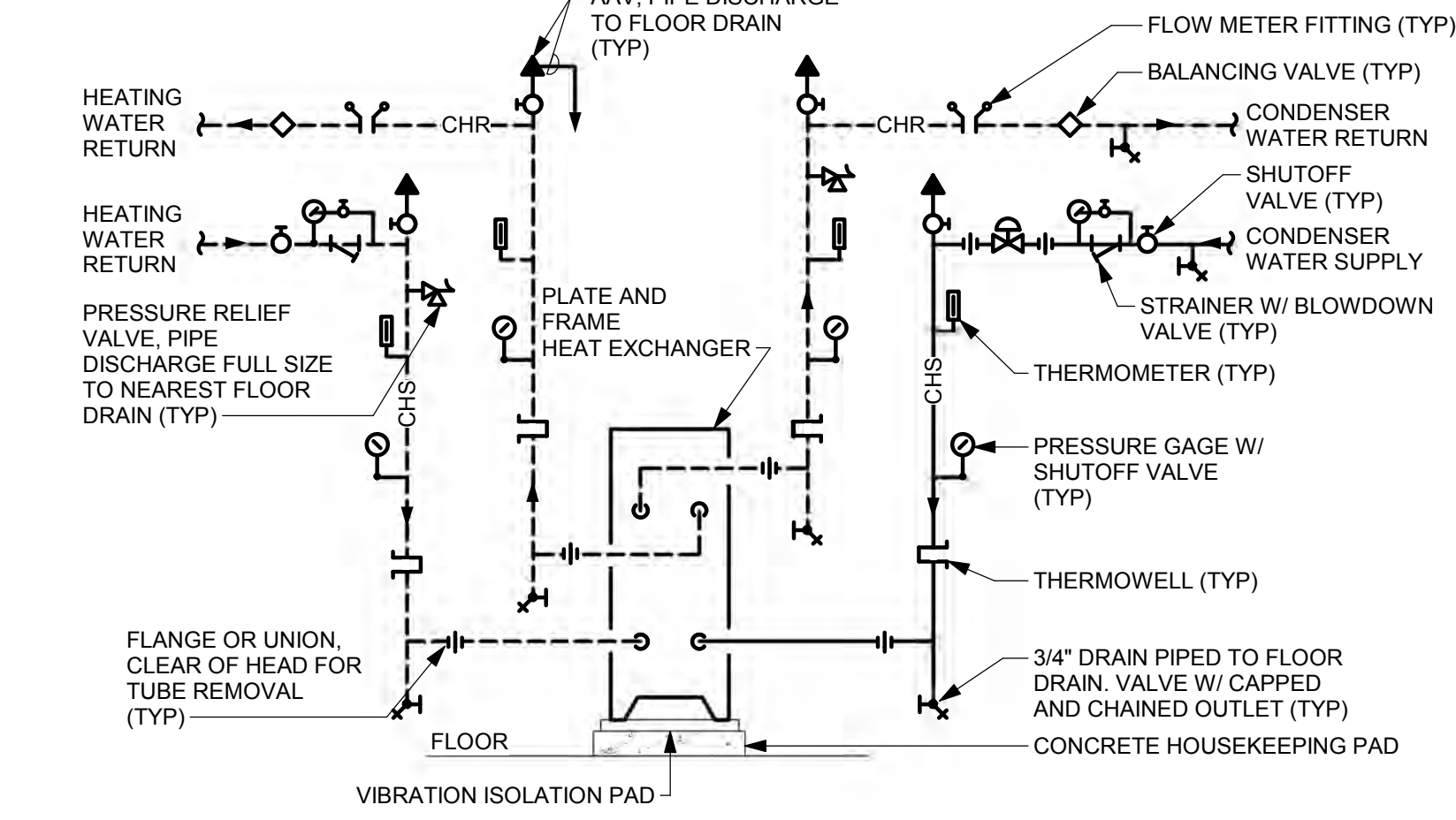


NOTES:

- REFER TO EXPANSION TANK SCHEDULE FOR CAPACITIES AND PRESSURE REDUCING AND RELIEF VALVE SETTINGS.
- DELETE HED IF TAP IN TANK IS NOT PROVIDED BY THE MANUFACTURER.

7 EXPANSION TANK & AIR SEPARATOR

M5.01 NOT TO SCALE

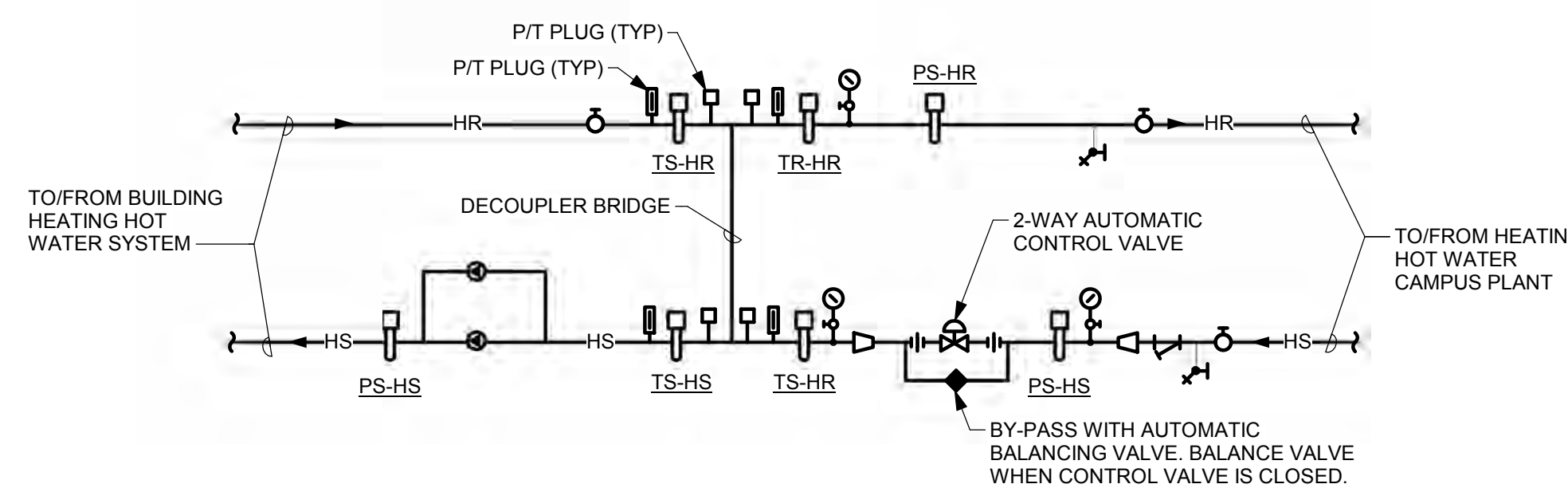


NOTES:

- ALL PIPING SHALL BE ARRANGED TO ALLOW REMOVAL OF PLATE FIN SECTIONS FOR CLEANING OR ADDING ADDITIONAL PLATES WITHOUT DISTURBANCE TO PIPING.
- HEAT EXCHANGERS TO BE PIPED IN A COUNTER FLOW ARRANGEMENT AS INDICATED IN MANUFACTURER'S INSTALLATION INSTRUCTIONS.

8 PLATE AND FRAME WATER-TO-WATER HEAT EXCHANGER

M5.01 NOT TO SCALE



9 HEATING WATER DECOUPLER BRIDGE

M5.01 NOT TO SCALE

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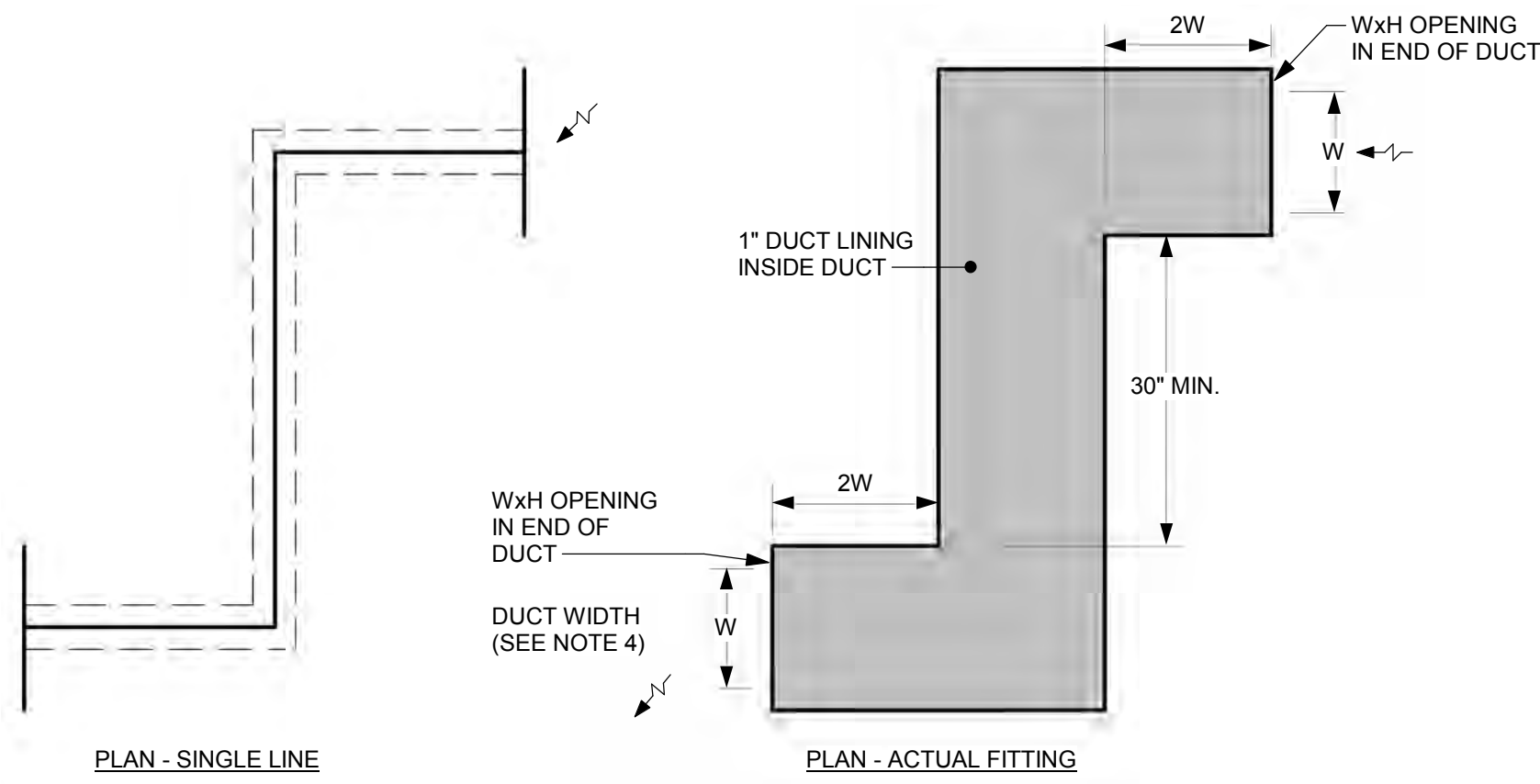
STAPLE EDGE

STAPLE EDGE

STAPLE EDGE

1 RETURN AIR/TRANSFER DUCT WITH ELBOWS

M5.02 NOT TO SCALE

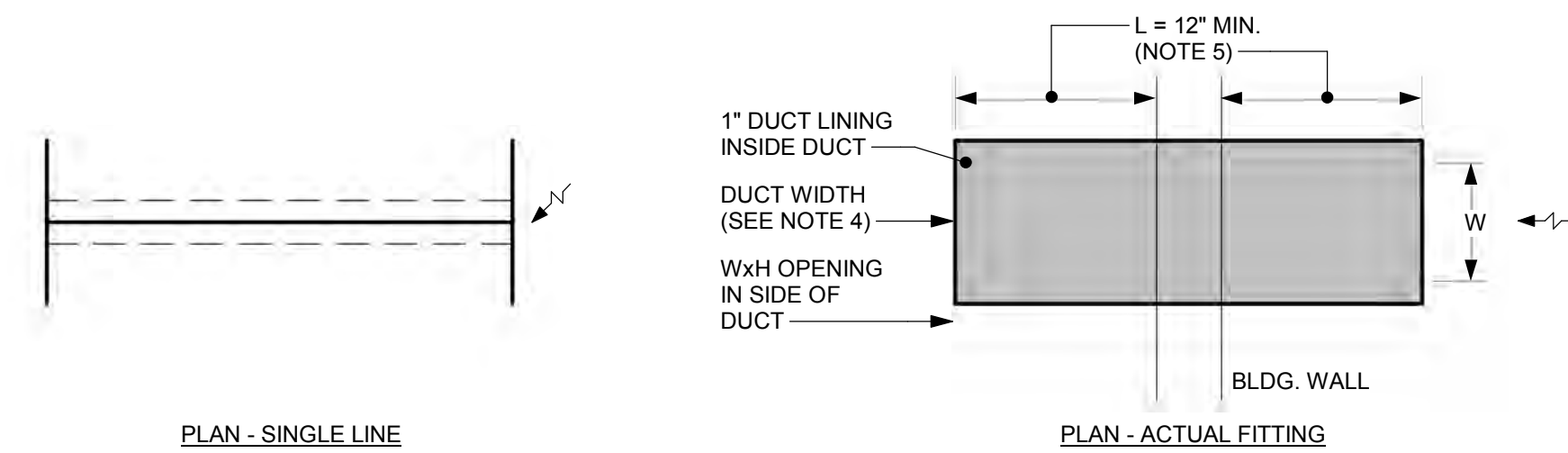


NOTES:

- USE MINIMUM 22 GAUGE OR SMACNA GAUGE (WHICHEVER IS GREATER) SHEET METAL FOR CONSTRUCTION AND LINE WITH 1" THICK SOUND LINING.
- SUSPEND RETURN AIR/TRANSFER DUCT ELBOWS FROM FLOOR SLAB STRUCTURE ABOVE FINISHED CEILING.
- CONFIGURATION VARIES FROM ROOM TO ROOM. SEE FLOOR PLANS FOR LOCATIONS AND CONFIGURATION.
- UNLESS SIZE IS INDICATED ON FLOOR PLANS, PROVIDE 8"x6" TRANSFER AIR DUCTS FOR SPACES WITH UP TO 150 CFM SUPPLY AIR. PROVIDE 12"x10" TRANSFER AIR DUCTS FOR SPACES WITH SUPPLY AIR QUANTITIES BETWEEN 150 CFM AND 435 CFM. PROVIDE 18"x10" TRANSFER AIR DUCTS FOR SPACES WITH SUPPLY AIR QUANTITIES BETWEEN 435 CFM AND 660 CFM. FOR SPACES WITH GREATER THAN 660 CFM SUPPLY AIR, PROVIDE MULTIPLE TRANSFER AIR DUCTS.
- REFER TO FLOOR PLANS FOR LOCATIONS OF SOUND ATTENUATORS IN TRANSFER DUCTS.

2 RETURN AIR/TRANSFER DUCT WITHOUT ELBOWS

M5.02 NOT TO SCALE

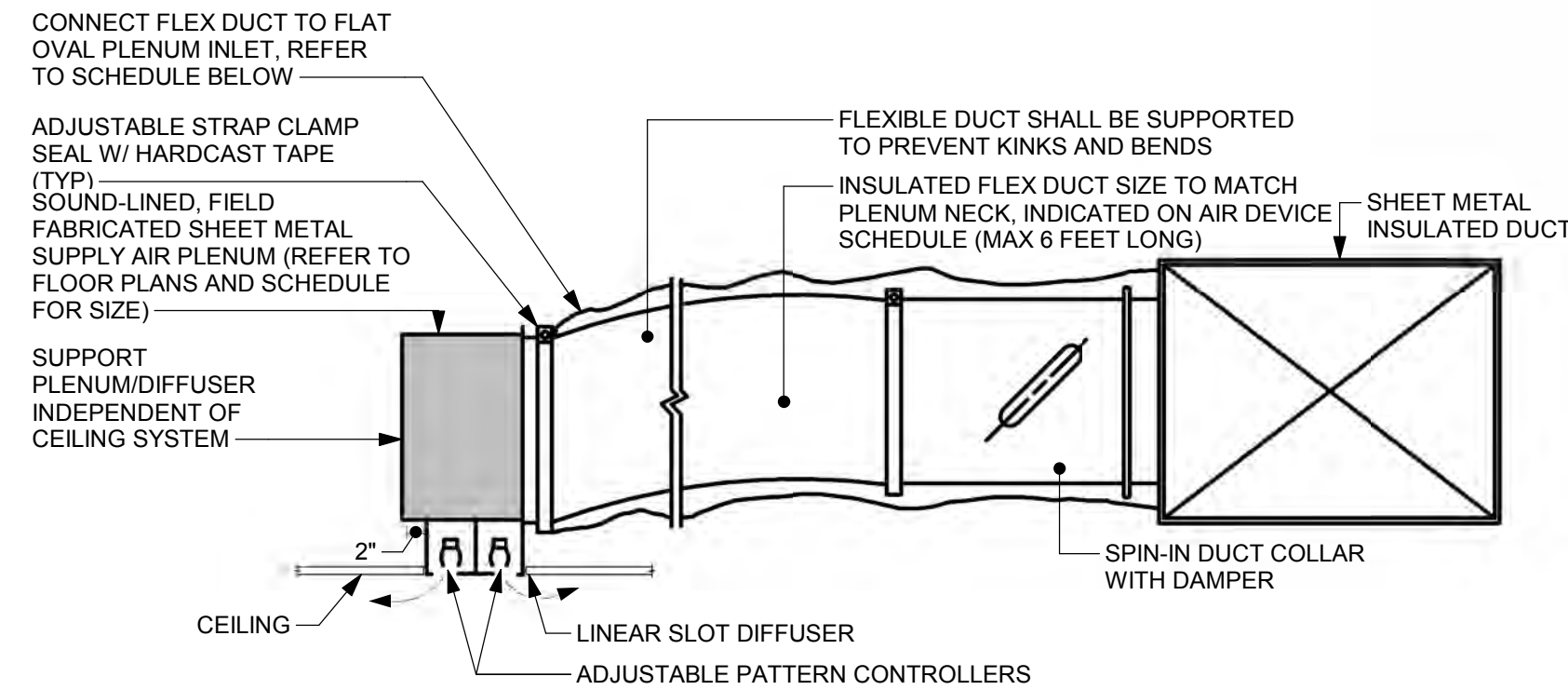


NOTES:

- USE MINIMUM 22 GAUGE OR SMACNA GAUGE (WHICHEVER IS GREATER) SHEET METAL FOR CONSTRUCTION AND LINE WITH 1" THICK SOUND LINING.
- SUSPEND RETURN AIR/TRANSFER DUCT FROM FLOOR SLAB STRUCTURE ABOVE FINISHED CEILING.
- CONFIGURATION VARIES FROM ROOM TO ROOM. SEE FLOOR PLANS FOR LOCATIONS AND CONFIGURATION.
- REFER TO FLOOR PLANS FOR SIZE OF DUCT.
- FOR TRANSFER DUCTS WITH GRILLES AT WALLS, LENGTH OF OPEN ENDED DUCT FROM BUILDING (L) SHALL INCREASE TO 24". REFER TO FLOOR PLANS FOR LOCATION OF TRANSFERS WITH GRILLES.

3 AIR DEVICE TYPE (LBD)

M5.02 NOT TO SCALE



NOTES:

- RECTANGULAR DUCT SHOWN; ROUND DUCT SIMILAR, WITH VOLUME DAMPER AFTER LOW LOSS TEE OFF SUPPLY MAIN.
- AIR DEVICE TYPE (LS) SHOWN, (IPSD) SIMILAR EXCEPT FACTORY FABRICATED PLENUM IS PROVIDED BY AIR DEVICE MANUFACTURER AND DEVICE DESIGNED FOR LAY-IN CEILINGS.

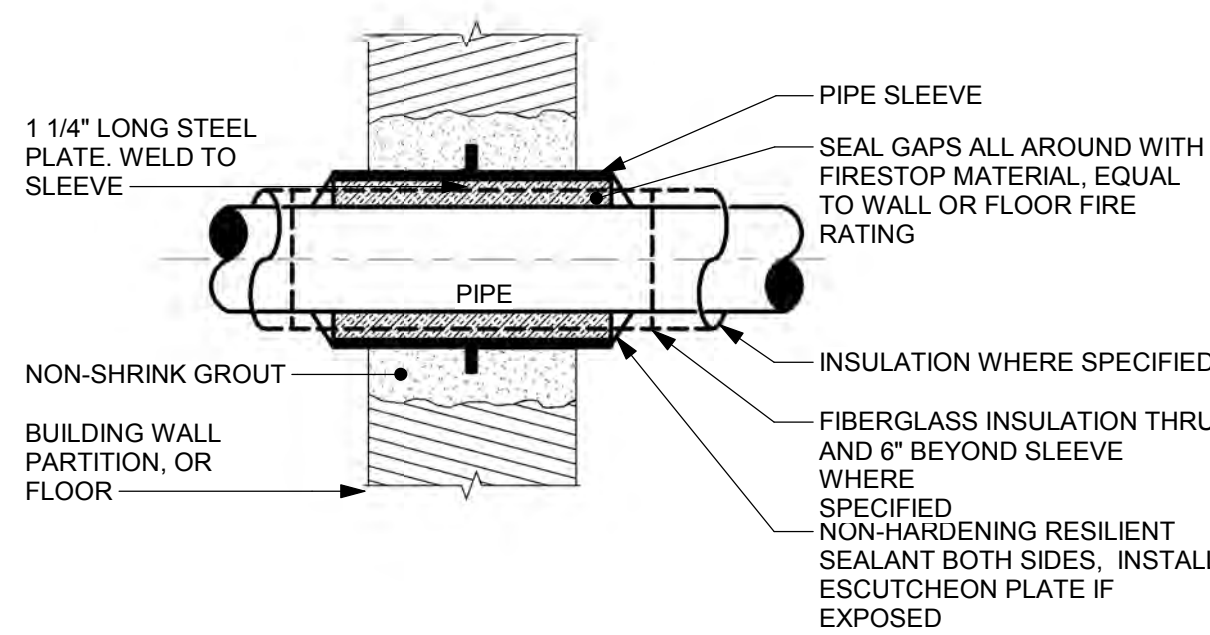
FLAT OVAL INLET SCHEDULE		
	A	B
FLEX DUCT	A	B
6"Ø	6 1/4"	5 1/4"
8"Ø	9 3/8"	5
10"Ø	12 1/2"	5 1/4"
12"Ø	14 1/8"	7 1/8"

6 LINEAR SLOT AIR DEVICE TYPE (LS)

M5.02 NOT TO SCALE

5 MASONRY WALL AND FLOOR PENETRATION

M5.02 NOT TO SCALE

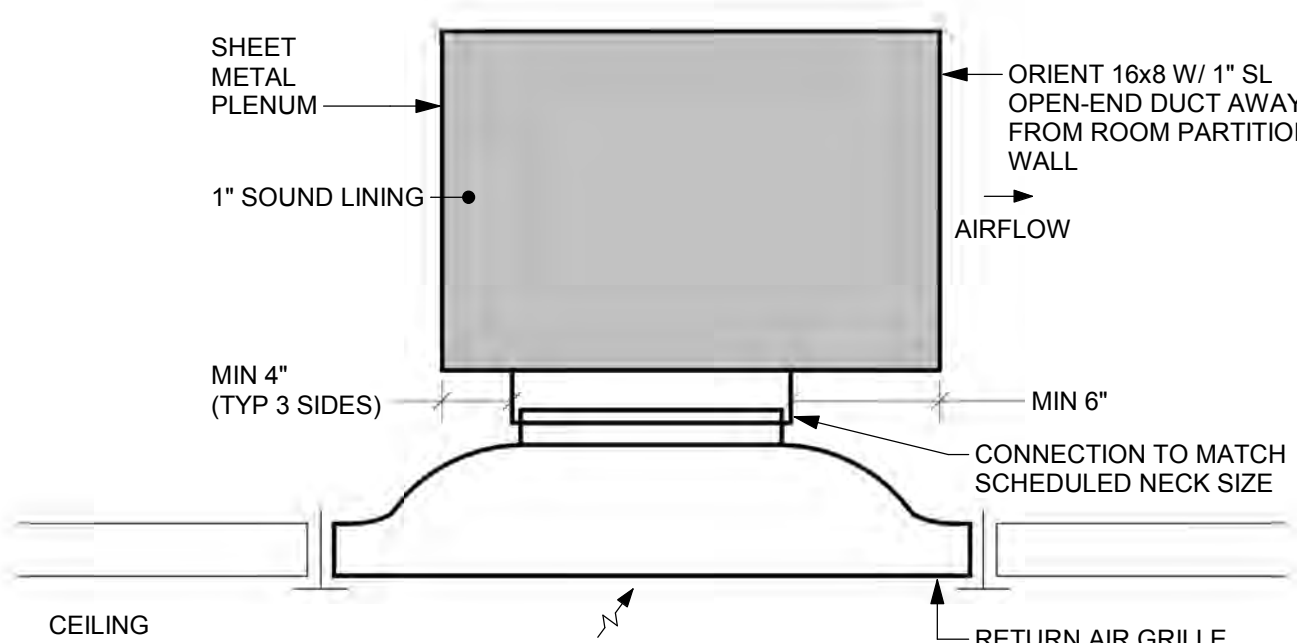


NOTE:

- AIR DEVICE TYPE (CR) SHOWN, TYPE (RR) SIMILAR.

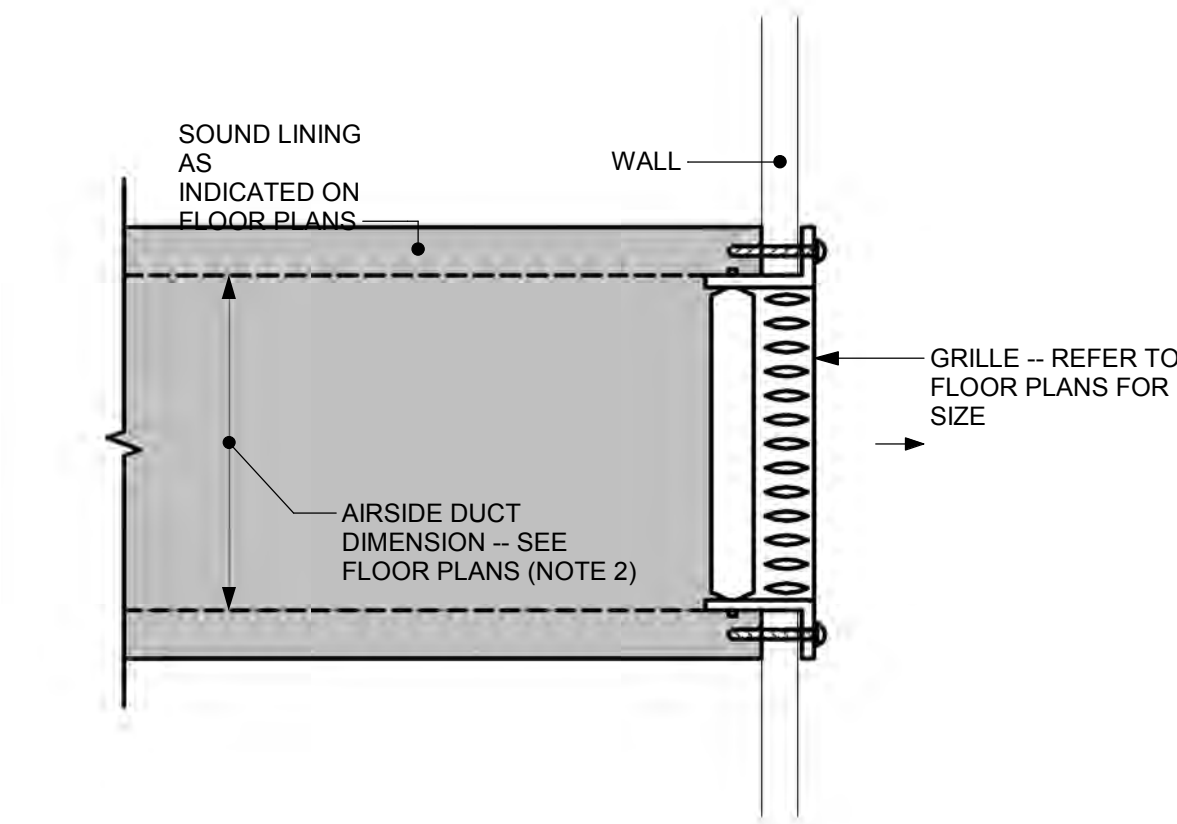
8 RETURN AIR DEVICE IN PLENUM CEILINGS (TYPE CR)

M5.02 NOT TO SCALE



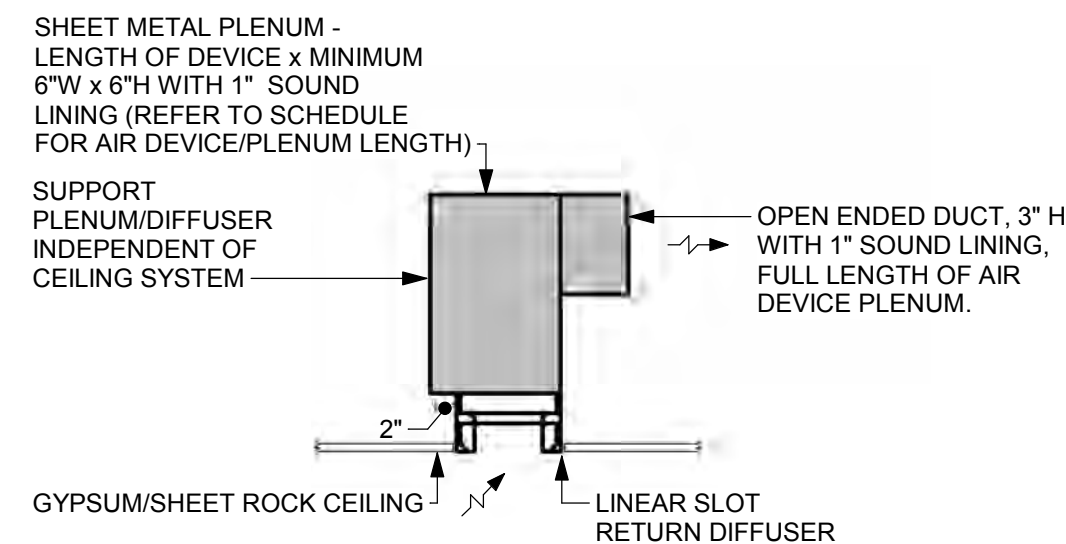
4 AIR DEVICE TYPE (SGA, SRA) - SIDEWALL GRILLE MOUNTING IN SOUND LINED DUCT

M5.02 NOT TO SCALE



NOTES:

- DOUBLE DEFLECTION SUPPLY GRILLE SHOWN, SINGLE DEFLECTION RETURN AND TRANSFER GRILLES (RGA, RRA, RGA-D) SIMILAR.
- TRANSITION DUCT TO GRILLE AS NECESSARY.



NOTE:

- TYPE (FLD-R) SHOWN, TYPES (LBR) AND (LR) SIMILAR.

7 LINEAR RETURN AIR DEVICE IN PLENUM CEILINGS (TYPE FLD-R)

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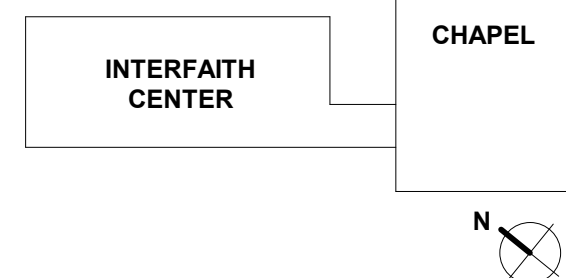
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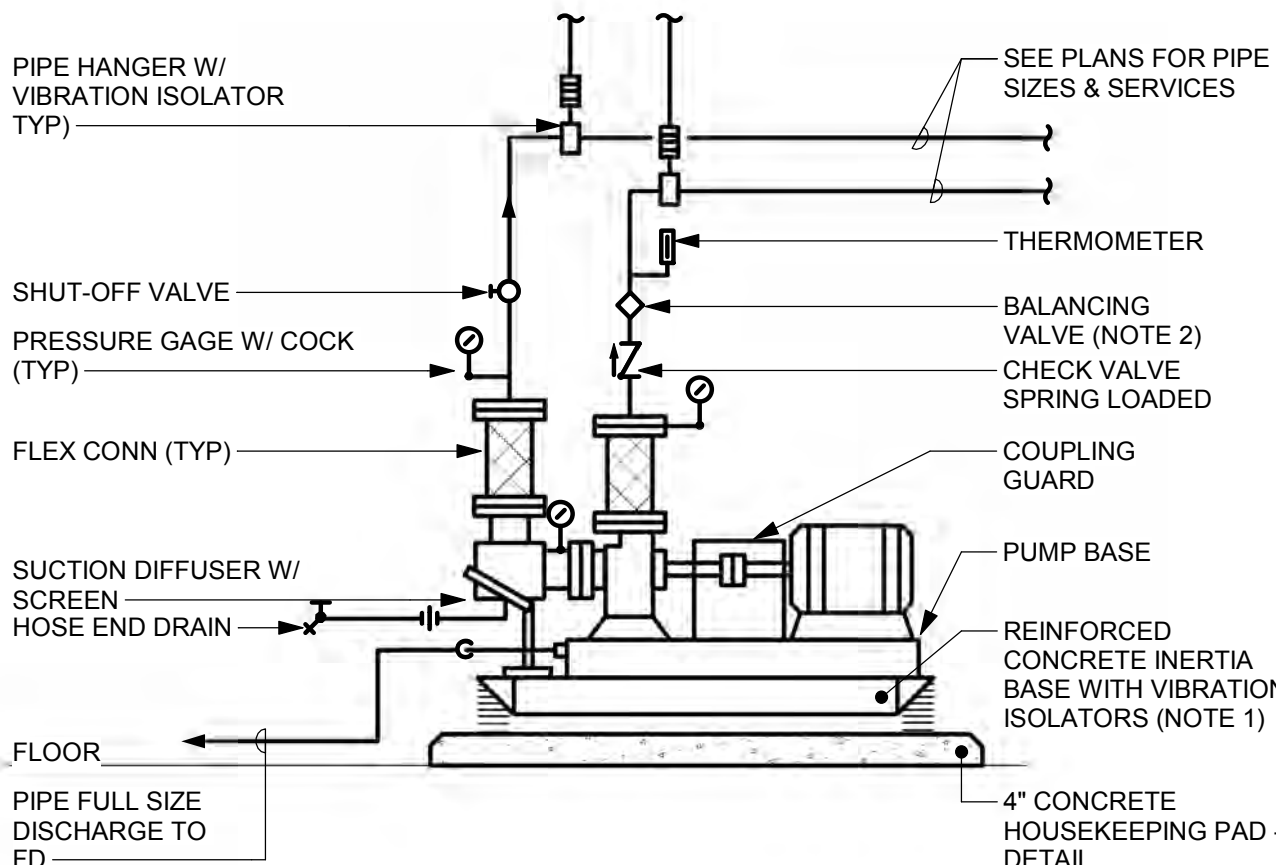
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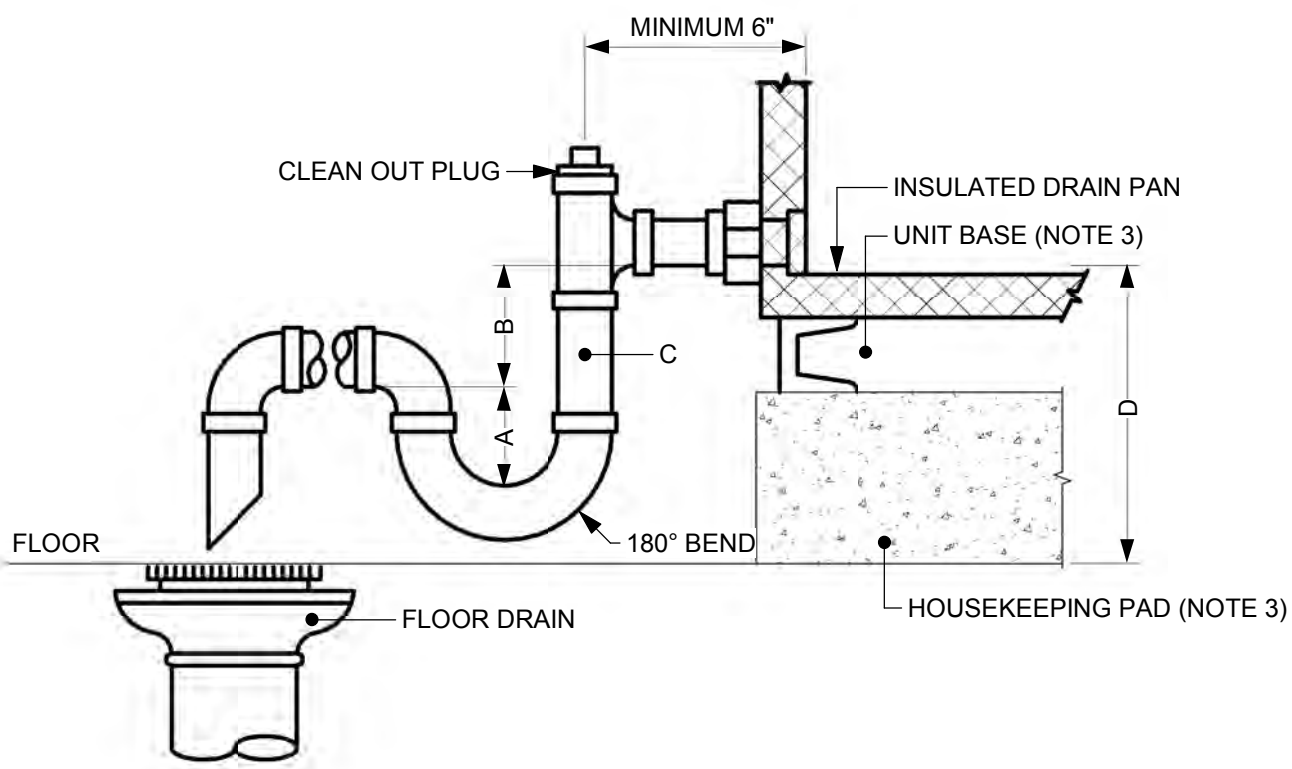


NOTES:

1. INERTIA BASE SHALL BE OF SUFFICIENT LENGTH TO SUPPORT PUMP & SUCTION DIFFUSER. DIFFUSER SUPPORTED FROM FLOOR OR HOUSEKEEPING PAD IS NOT ACCEPTABLE.
2. ON PUMPS WITH VARIABLE FREQUENCY CONTROLLERS, PROVIDE SHUT-OFF VALVE IN LIEU OF BALANCING VALVE.

1 BASE MOUNTED END SUCTION PUMP

M5.03/ NOT TO SCALE



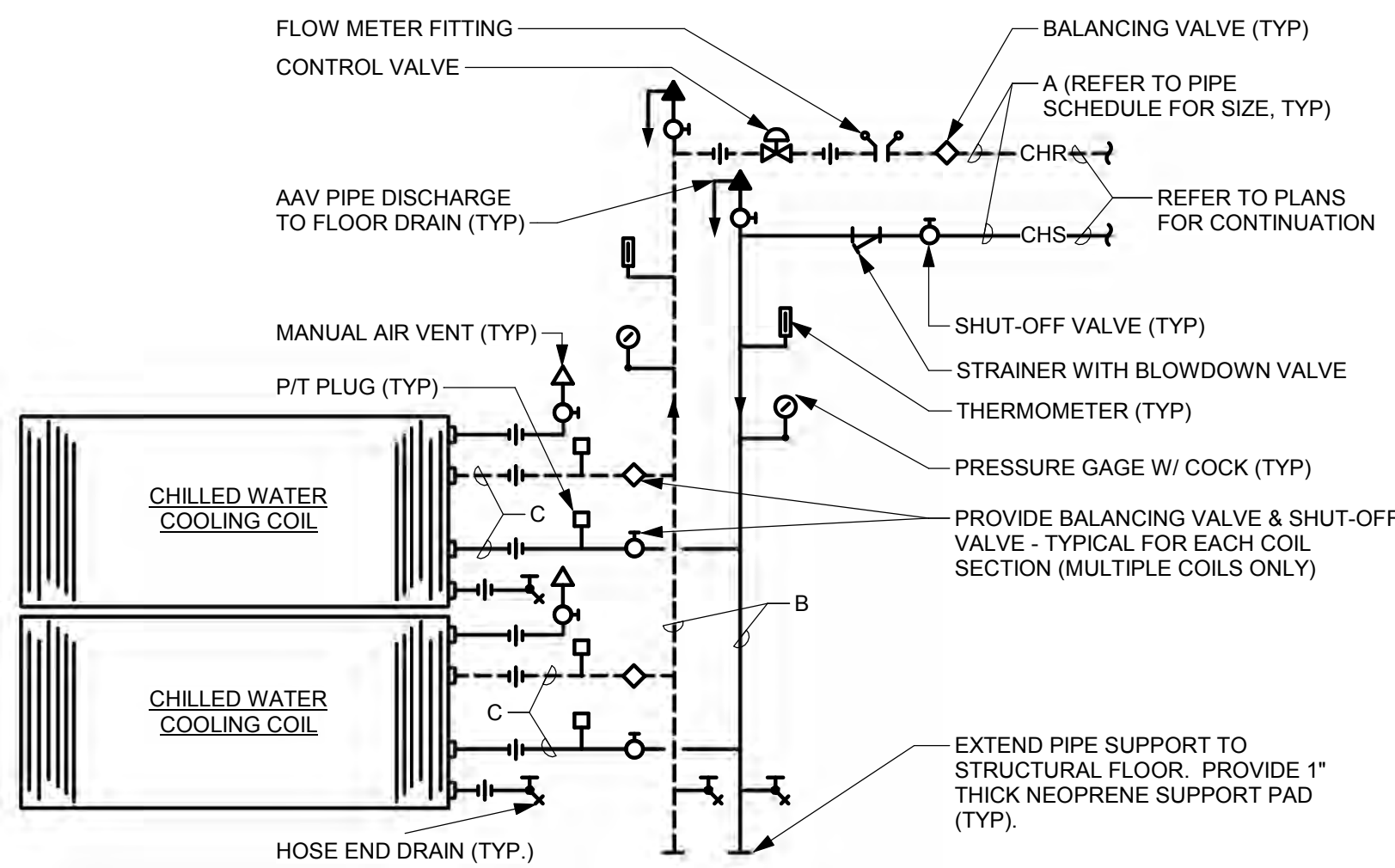
AHU #	PIPE SCHEDULE PIPE SIZE (INCHES)			
	A	B	C	D
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NOTES:

1. FOR DRAW THRU TRAPS: "B" = FAN INLET PRESSURE PLUS 1 INCH, "A" = B/2
2. FOR BLOW THRU TRAPS: "B" = 1 INCH, "A" = FAN OUTLET PRESSURE PLUS 1/2 INCH.
3. BOTTOM OF CONDENSATE DRAIN PAN CONNECTION SHALL BE MINIMUM "D" ABOVE FINISHED FLOOR - INCREASE UNIT BASE HEIGHT ACCORDINGLY. HOUSEKEEPING PAD HEIGHT SHALL NOT EXCEED 6" WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT.

4 INDOOR COOLING COIL CONDENSATE DRAIN

M5.03/ NOT TO SCALE



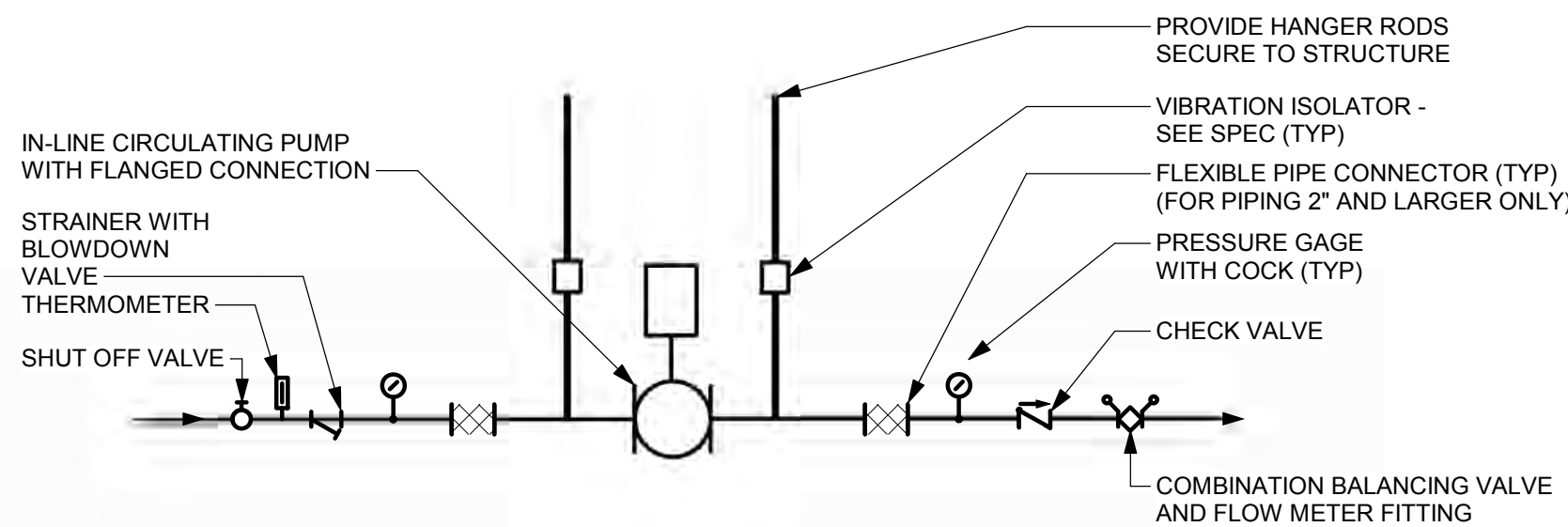
COIL DESIGNATION	PIPE SCHEDULE PIPE SIZE (INCHES)		
	A	B	C
---	---	---	---

NOTES:

1. ARRANGE PIPING & UNIONS TO ALLOW COIL REMOVAL.
2. SUPPORT EACH COIL SEPARATELY TO ALLOW REMOVAL OF INDIVIDUAL SECTIONS.
3. REFER TO AHU SCHEDULES FOR EXACT NUMBER & ARRANGEMENT OF COILS.
4. MULTIPLE COILS SHOWN, SINGLE COIL SIMILAR.
5. PROVIDE 20 GAUGE STAINLESS STEEL DRAIN PAN UNDER EACH COIL BANK. DRAIN PAN SHALL EXTEND 6" DOWNSTREAM OF COILS. PROVIDE MINIMUM 1 1/4" STAINLESS STEEL DOWNSPOUT FROM TOP PAN TO BOTTOM PAN.

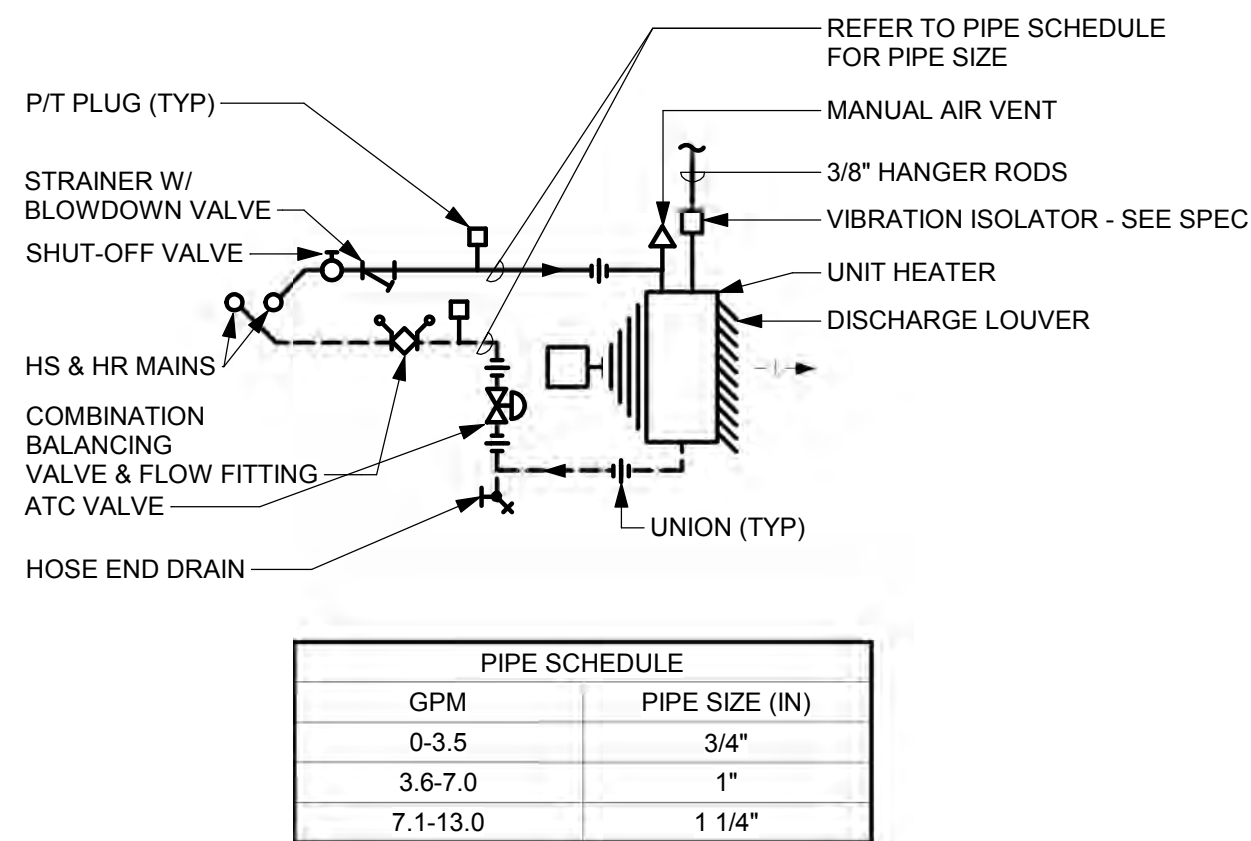
5 MULTIPLE CHILLED WATER COOLING COILS

M5.03/ NOT TO SCALE



2 IN-LINE CIRCULATING PUMP

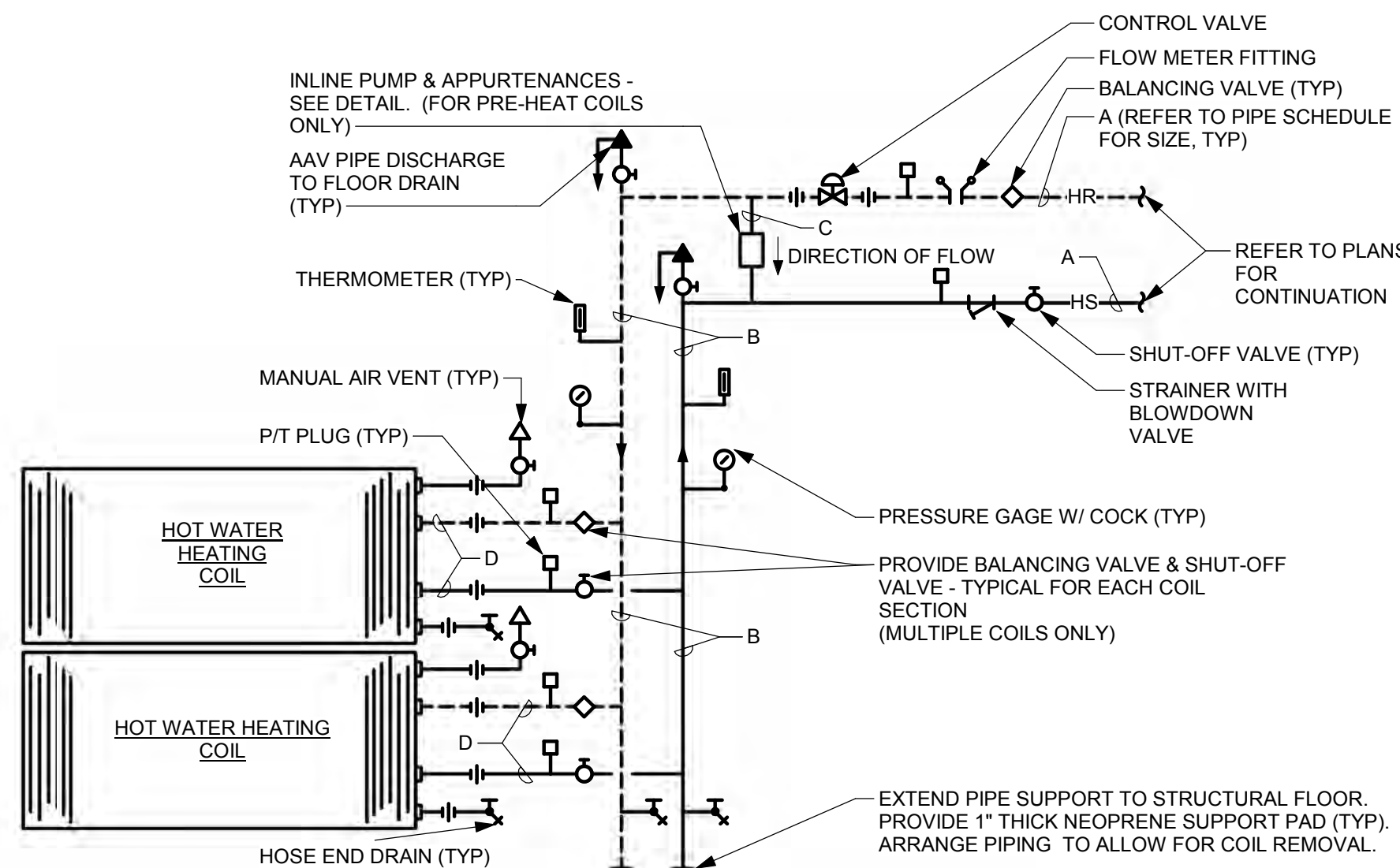
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PIPE SCHEDULE	
GPM	PIPE SIZE (IN)
0-3.5	3/4"
3.6-7.0	1"
7.1-13.0	1 1/4"

3 HOT WATER UNIT HEATERS

M5.03/ NOT TO SCALE



COIL DESIGNATION	PIPE SCHEDULE PIPE SIZE (INCHES)			
	A	B	C	D
---	---	---	---	---

NOTES:

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2. SUPPORT EACH COIL SEPARATELY TO ALLOW REMOVAL OF INDIVIDUAL SECTIONS.
3. REFER TO AHU SCHEDULES FOR EXACT NUMBER & ARRANGEMENT OF COILS.
4. MULTIPLE COILS SHOWN, SINGLE COIL SIMILAR.

6 MULTIPLE HEATING HOT WATER COILS

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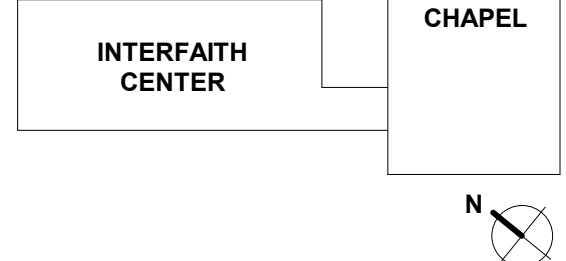
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STAPLE EDGE

STAPLE EDGE

G

F

E

D

C

B

A

STAPLE EDGE

J

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REVISIONS

REV. #	DESCRIPTION	DATE

KEY PLAN

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DRAWING INFORMATION

ISSUE DATE: 04/28/17
SCALE: 1/2" = 1'-0"
JOB NO.: 21641.00
DRAWN BY: CBH

PROJECT DESIGN PHASE

50% CONSTRUCTION
DOCUMENTS

DRAWING NAME

SCHEDULES

DRAWING NUMBER

M6.01

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AIR HANDLING UNITS																																				
GENERAL								FANS		COOLING COIL										HEATING COIL										FILTERS		REMARKS				
DESIG	TYPE (SEE SPEC)	LOCATION	SERVICE	TOTAL AIRFLOW (CFM)		OUTSIDE AIRFLOW (CFM)	MAX INTERNAL S.P. (IN WG)	(SEE SCHEDULE)	DESIG	SENSIBLE/TOTAL CAPACITY (MBH)	MIN ROWS/ MAX FPI	EAT (°F)		LAT (°F)	QUANTITY & APPROX SIZE WxH (IN) OR TOTAL AREA (SF)	MAX FACE VELOCITY (FPM)	MAX APD (IN W.G.)	EWT (°F)	LWT (°F)	WATER FLOWRATE (GPM)	MAX WPD (FT HD)	DESIG	CAPACITY (MBH)	MIN ROWS/ MAX FPI	EAT (°F)	LAT (°F)	QUANTITY & APPROX SIZE WxH (IN) OR TOTAL AREA (SF)	MAX FACE VELOCITY (FPM)	MAX APD (IN W.G.)	EWT (°F)	LWT (°F)		WATER FLOWRATE (GPM)	MAX WPD (FT HD)	(SEE SCHEDULE)	
				MAX	MIN							DB	WB																							DB
AHU-1	---	MECHANICAL ROOM	BUILDING VENTILATION	1500	---	1500	5.37	F-SA-1	CC-1	67.9/131.8	---	95	78	53.1	52.8	3.4	441	1.0	56	44	22.0	9	PHC-1	121	---	0	74.7	3.4	441	0.17	180	160	12.4	5.5	PF-1	---
																						RHC-1	43.2	---	53.0	79.6	3.4	441	0.10	180	160	4.4	0.4	FF-1	---	
NOTES:																																				
3. BALANCE PRE-HEAT COIL FOR GPM SCHEDULED WHILE ACHIEVING SCHEDULED CAPACITY. TUBE VELOCITY AT SCHEDULED GPM TO BE BETWEEN 3 FPS AND 5 FPS. NOTE PUMP FLOW RATE PLUS SYSTEM FLOW RATE EQUALS SCHEDULED COIL FLOW RATE. IN ADDITION, PUMP FLOW RATE EQUALS SYSTEM FLOW RATE THROUGH CONTROL VALVE AT FULL OPEN POSITION.																																				
1. COIL CAPACITIES SHALL BE BASED ON AHU OPERATING AT SCHEDULED MAXIMUM TOTAL AIRFLOW WITH SCHEDULED MINIMUM OCCUPIED OUTSIDE AIR.																																				
2. UNIT INTERNAL STATIC PRESSURE DROP INCLUDES ALLOWANCE FOR SYSTEM EFFECTS, UNIT DAMPER LOSSES, AND 0.5" FOR FILTER LOADING.																																				

FAN COIL UNITS

NOTES:																								
1. EXTERNAL STATIC PRESSURE IS FOR EXTERNAL COMPONENTS ONLY AND DOES NOT INCLUDE INTEGRAL UNIT INLET GRILLE, DISCHARGE GRILLE, AND FILTER.																								
DESIG	SPEC TYPE	LOCATION	NOMINAL AIR FLOWRATE (CFM)	EXTERNAL STATIC PRESSURE (IN.WG) (NOTE 1)	TOTAL (BTU/H)	SENS. (BTU/H)	COOLING CAPACITY			HEATING CAPACITY					MOTOR			ELECTRICAL			REMARKS			
							ENTERING AIR (°F) DB	EWT (°F) WB	LWT (°F)	WATER FLOWRATE	MAX WPD (FT HD)	TOTAL (BTU/H)	ENTERING AIR (°F) DB	EWT (°F)	LWT (°F)	WATER FLOWRATE	MAX WPD (FT HD)	BHP	MHP	VOLTS		PH	HZ	
FCU-4HC-C	HC	SEE MECHANICAL PLANS	400	0.50	9666	4320	75	63	44	56	1.6	13.3	14927	70	180	160	1.5	1.4	1/12	120	1	60		
FCU-6HC-C	HC	SEE MECHANICAL PLANS	600	0.50	14646	8996	75	63	44	56	2.4	3.8	21996	70	180	160	2.2	3.4	1/12	120	1	60		
FCU-8HC-C	HC	SEE MECHANICAL PLANS	800	0.50	18950	13900	75	63	44	56	3.2	15.8	26885	70	180	160	2.7	6.1	1/6	120	1	60		
FCU-6VC	VC	SEE MECHANICAL PLANS	600	0.50	21900	14000	75	63	44	56	4.1	12.7	23300	70	180	160	1.6	2.2	1/5	208	1	60		
FCU-8VC	VC	SEE MECHANICAL PLANS	800	0.50	27500	17800	75	63	44	56	4.4	19.4	23900	70	180	160	2.0	2.2	1/5	208	1	60		

EXPANSION TANKS

DESIG	LOCATION	SERVICE	REMARKS
ET-CHW	MECHANICAL ROOM	CHILLED WATER SYSTEM	
ET-HW	MECHANICAL ROOM	HEATING HOT WATER SYSTEM	

PUMPS

DESIG	TYPE (SEE SPEC)	LOCATION	SERVICE	WATER FLOWRATE (GPM)	HEAD (FT HD)	APPROXIMATE IMPELLER DIAMETER (IN)	SUCTION X DISCHARGE (IN)	MIN PUMP EFF. (%)	SPEED (RPM)	BHP	MOTOR HP	ELECTRICAL			REMARKS
												VOLTS	PH	HZ	
P-CHW-1		MECHANICAL ROOM	CHILLED WATER SYSTEM	70.0	70.0	0'-8 1/8"	2.5 x 2	50	1750	2.14	5	208 V	3	60	---
P-CHW-2		MECHANICAL ROOM	CHILLED WATER SYSTEM	70.0	70.0	0'-8 1/8"	2.5 x 2	50	1750	2.14	5	208 V	3	60	---
P-HHW-1		MECHANICAL ROOM	HEATING HOT WATER SYSTEM	40.0	50.0	0'-6 3/4"	1.5 x 1.25	55	1750	0.82	1.5	208 V	3	60	---
P-HHW-2		MECHANICAL ROOM	HEATING HOT WATER SYSTEM	40.0	50.0	0'-6 3/4"	1.5 x 1.25	55	1750	0.82	1.5	208 V	3	60	---
P-PHC-1		MECHANICAL ROOM	PHC-1	6.2	30.0	0'-3 13/16"	1.5 x 1.5	36	3250			120 V	1	60	---

FANS

DESIG	TYPE (SEE SPEC)	SERVICE	AIRFLOW (CFM)		TOTAL STATIC PRESSURE (IN WG)	WHEEL DIAMETER (IN)	SPEED (RPM)	BHP	MOTOR HP	ELECTRICAL			REMARKS
			MAX	MIN						VOLTS	PH	HZ	
EF-1		KITCHEN EXHAUST	150	150	1.0	6.75	1350	---	---	120	1	60	---
EF-2		MECH RM EXHAUST	350	350	1.0	11.2	2800	0.45	1/2	120	1	60	---
EF-3		TOILET RM 006 EXHAUST	105	150	0.8	7.9	1050	---	---	120	1	60	---
EF-4		TOILET RM 007 EXHAUST	115	115	0.8	7.9	1050	---	---	120	1	60	---
EF-5		TOILET RM 105 EXHAUST	95	95	0.8	7.9	1050	---	---	120	1	60	---
EF-6		TOILET RM 106 EXHAUST	95	95	0.8	7.9	1050	---	---	120	1	60	---
EF-7		JANITOR CLOSET 009	50	50	0.8	7.9	950	---	---	120	1	60	---
EF-8		TOILET RM C103 EXHAUST	75	75	0.8	7.9	950	---	---	120	1	60	---
EF-9		TOILET RM C105 EXHAUST	75	75	0.8	7.9	950	---	---	120	1	60	---
F-SA-1	PL	AHU-1	1500	1500	5.4	9	4041	2.17	3	208	3	60	---

AIR COOLED CONDENSING UNITS

DESIG	TYPE (SEE SPEC)	LOCATION	NOMINAL COOLING CAPACITY (TONS)	MAX AMPS @ FULL LOAD	EVAPORATOR AMB TEMP DB/WB (°F)	CONDENSER		COMPRESSOR QUANTITY	ELECTRICAL			REMARKS
						AMB TEMP DB/WB (°F)	NUMBER OF CIRCUITS		VOLTS	PH	HZ	
ACCU-1			1.5	12	75/63	95/78	1	1	208	1	60	B.O.D. MITSUBISHI PUYA18NHA

FILTERS

DESIG	TYPE (SEE SPEC)	LOCATION	SERVICE	MERV	MAX FACE VELOCITY (FPM)	DEPTH (IN)	INITIAL / FINAL APD (IN WG)	QUANTITY & APPROX SIZE LxW (IN) OR AREA (SF)		REMARKS
PF-1	PF	AHU-1	PRE-FILTER	8	455	2	23/.27	3.3		---
FF-1	FF	AHU-1	FINAL FILTER	13	455	12	45/.55	3.3		---

NOTES:
1. PROVIDE FILTER BOX AT INLET TO FAN.

AIR CONDITIONERS

DESIG	TYPE (SEE SPEC)	LOCATION	SERVICE	TOTAL COOLING (MBH)	SENSIBLE COOLING (MBH)	AIRFLOW RATE (CFM)	ELECTRICAL				REMARKS
							FLA	VOLTS	PH	HZ	
ACU-1		TELECOM CLOSET	TELECOM CLOSET	18.0	14.0	400	1	208	1	60	B.O.D. MITSUBISHI PKA-A18HA6

WATER-TO-WATER HEAT EXCHANGER

DESIG	SERVICE	LOCATION	CAPACITY (MBH)	PRIMARY WATER (CAMPUS LOOP)				SECONDARY WATER (BUILDING)				BASIS OF DESIGN
				FLOWRATE (GPM)	EWT (°F)	LWT (°F)	MAX WPD (PSI)	FLOWRATE (GPM)	EWT (°F)	LWT (°F)	MAX WPD (PSI)	
HX-CHW-1	CHILLED WATER	MECHANICAL ROOM	421.8	70	42	54	10	70	56	44	10	B&G AP64

NOTES:
1. CERTIFICATION SHALL BE BY AHRI-400

AIR DEVICES

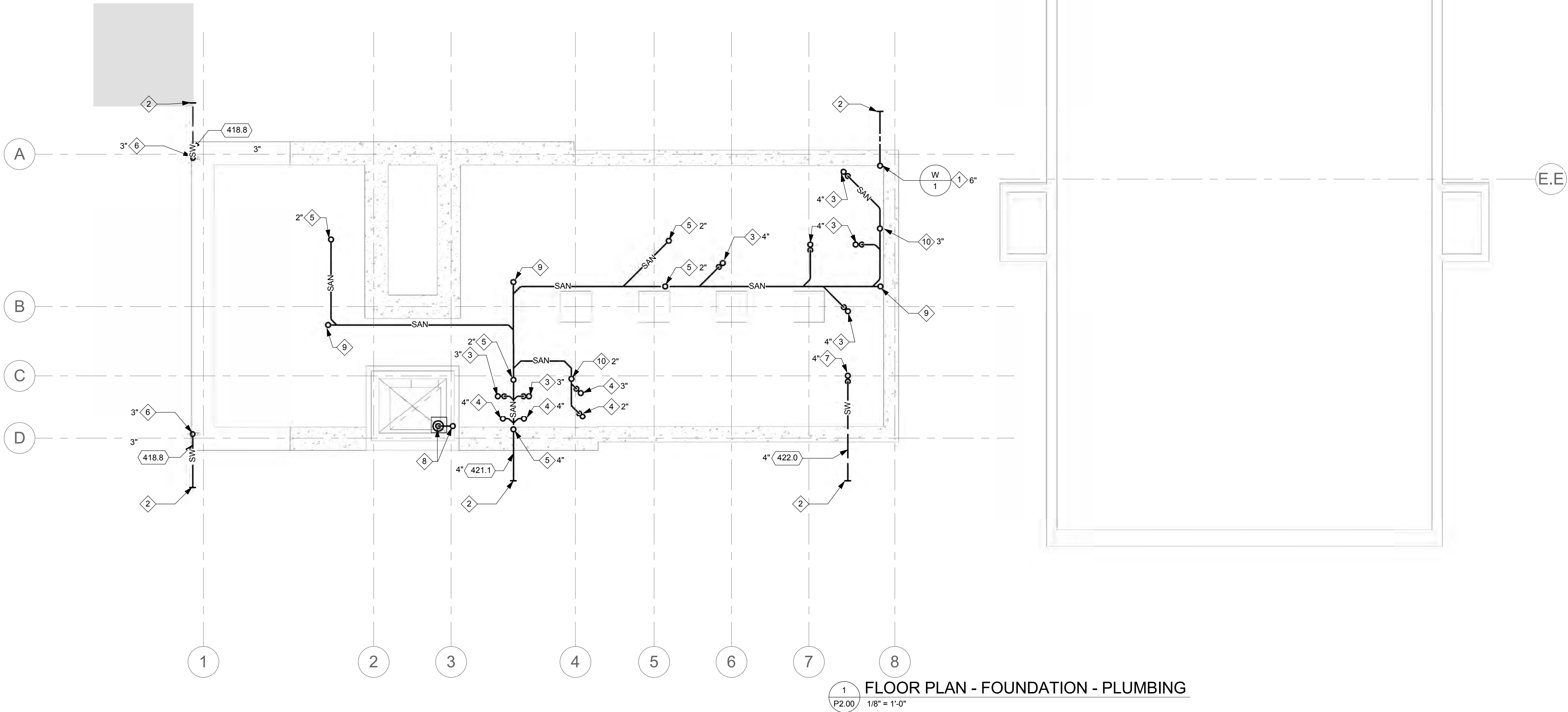
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STAPLE EDGE

STAPLE EDGE

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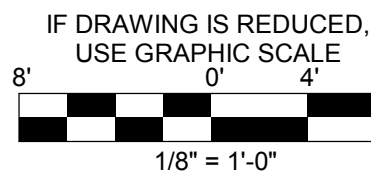
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P2.00
FLOOR PLAN - FOUNDATION - PLUMBING
1/8" = 1'-0"

DRAWING NOTES:

- REFER TO DRAWING M0.01 FOR LEGEND, ABBREVIATIONS AND DRAWING CONVENTIONS.
- EXISTING CONDITIONS SHOWN ARE BASED ON LIMITED FIELD SURVEY AND EXISTING DOCUMENTATION. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS, INDICATED OR OTHERWISE.
- UNLESS OTHERWISE NOTED, PIPING AND DUCTWORK SHOWN IS CONCEALED ABOVE CEILING.
- COORDINATE ALL DEMOLITION WORK WITH NEW WORK CONSTRUCTION.

SPECIAL NOTES:

- COMBINATION WATER SERVICE UP THROUGH SLAB. LOCATE MINIMUM OF 48" BELOW FINISHED GRADE TO TOP OF PIPE. REFER TO DETAIL FOR CONTINUATION.
- REFER TO CIVIL PLANS FOR CONTINUATION.
- SAN FROM TO FLOOR/TRENCH DRAIN.
- SAN THROUGH SLAB FROM FIXTURE(S) ON FLOOR ABOVE.
- SAN THROUGH SLAB FROM FLOOR ABOVE.
- SW FROM DOWNSPOUT BOOT.
- SW FROM FLOOR DRAIN.
- SW/D FROM ELEVATOR PIT SUMP PUMP WITH CHECK AND SHUT-OFF VALVES IN VERTICAL. PROVIDE PUMP IN 24" SQUARE BY 36" DEEP BASIN INTEGRAL WITH CONCRETE PIT. REFER TO DETAIL.
- UP TO FLOOR CLEANOUT
- VP UP THROUGH SLAB FROM SAN.



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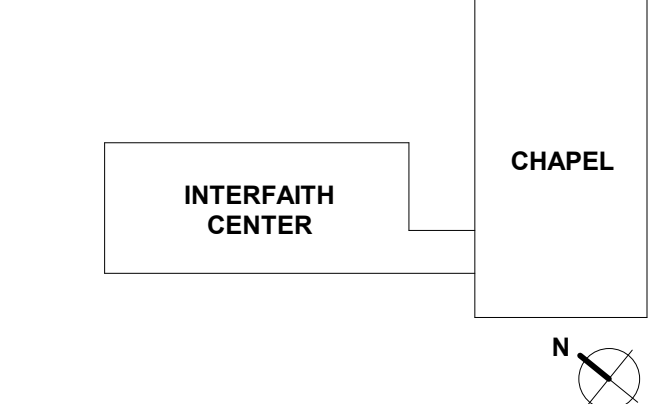
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JOB NO.:	21641.00
DRAWN BY:	Author

PROJECT DESIGN PHASE
**50% CONSTRUCTION
DOCUMENTS**

DRAWING NAME
**FLOOR PLAN - FOUNDATION
PLUMBING**

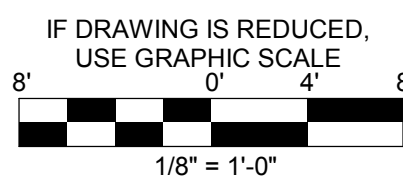
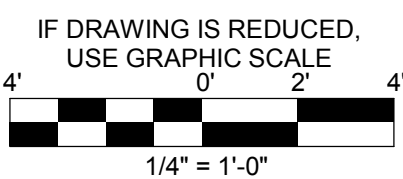
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 - D. COORDINATE ALL DEMOLITION WORK WITH NEW WORK CONSTRUCTION.

- SPECIAL NOTES:**
- 1 1 1/2" CW, 1 1/2" HW, AND 3/4" HWR TO/FROM HWMV-1 AND DWH-1. REFER TO DETAIL FOR CONTINUATION.
 - 2 2" CW, 1" HW AND 3/4" HWR TO FIXTURES ON FLOOR ABOVE.
 - 3 3" TYPE "A" FLOOR DRAIN WITH AUTOMATIC TRAP PRIMING CONNECTION SERVED FROM NEAREST FLUSH VALVE TAILPIECE.
 - 4 4" TYPE "B" FLOOR DRAIN WITH AUTOMATIC TRAP PRIMING CONNECTION SERVED FROM TRAP PRIMING PANEL.
 - 5 4" TYPE "C" FLOOR DRAIN WITH AUTOMATIC TRAP PRIMING CONNECTION SERVED FROM TRAP PRIMING PANEL.
 - 6 4" TYPE "D" TRENCH DRAIN WITH AUTOMATIC TRAP PRIMING CONNECTION SERVED FROM TRAP PRIMING PANEL.
 - 7 CHECK VALVE WITH AUTOMATIC BALL DRIP. EXTEND DRAIN TO NEAREST FLOOR DRAIN.
 - 8 COMBINATION SERVICE FROM BELOW SLAB. REFER TO DETAIL FOR CONTINUATION.
 - 9 CONTROL PANEL FOR ELEVATOR SUMP PUMP, P-ELEV-1.
 - 10 CW AND HW DOWN TO FIXTURE(S).
 - 11 CW AND HW DOWN, EXPOSED ON WALL, TO HWMV-3, IN SURFACE MOUNTED CABINET. MOUNT CABINET ON WALL AT 24" AFF.
 - 12 CW DOWN TO AUTOMATIC TRAP PRIMING PANEL, SURFACE MOUNTED ON WALL AT 36" AFF. EXTEND DEDICATED 1/2" T/P PIPING TO ALL FLOOR/TRENCH DRAINS.
 - 13 CW FROM INCOMING WATER SERVICE. REFER TO DETAIL FOR CONTINUATION.
 - 14 CW UP TO FIXTURE(S) ON FLOOR ABOVE.
 - 15 CW, HW, HWR TO/FROM FIXTURE(S) ON FLOOR ABOVE.
 - 16 CW, HW, HWR UP.
 - 17 D DOWN, CONCEALED IN WALL. DISCHARGE THROUGH WALL 18" ABOVE FINISHED GRADE OVER SPLASHBLOCK. PROVIDE WATER-TIGHT SLEEVE THROUGH WALL.
 - 18 DEDICATED SPRINKLER SUPPLY PIPE (ZONE #3) UP.
 - 19 DEDICATED SPRINKLER SUPPLY PIPE (ZONE #5) UP.
 - 20 DEDICATED SPRINKLER SUPPLY PIPE (ZONE #4) UP.
 - 21 DOWNSPOUT BOOT WITH CLEANOUT. REFER TO ARCHITECTURAL PLANS FOR DOWNSPOUT CONTINUATION.
 - 22 EXTEND TO AUTOMATIC WET PIPE SPRINKLER SYSTEM FOR THIS FLOOR.
 - 23 F UP TO FREE STANDING FIRE DEPARTMENT CONNECTION.
 - 24 HWR, HW, AND CW DOWN TO HWMV-2 IN RECESSED CABINET. EXTEND 1/2" TW FROM MIXING VALVE TO FIXTURES, CONCEALED WITHIN WALL. MOUNT BOTTOM OF CABINET 6" AFF.
 - 25 SAN DOWN TO 2" SAN THROUGH SLAB. PROVIDE CLEANOUT AT 18" AFF.
 - 26 SAN FROM FIXTURE TO 2" SAN THROUGH SLAB. 2" VP DOWN TO SAN.
 - 27 SAN FROM FIXTURE(S) ON FLOOR ABOVE.
 - 28 SAN FROM FIXTURE(S) TO 2" SAN THROUGH SLAB. 1 1/2" VP DOWN TO SAN.
 - 29 SAN FROM FLOOR DRAIN ON FLOOR ABOVE.
 - 30 SWPD THROUGH FLOOR, CONCEALED WITHIN WALL. DISCHARGE THROUGH WALL 18" ABOVE FINISHED GRADE OVER SPLASHBLOCK. PROVIDE WATER-TIGHT SLEEVE THROUGH WALL.
 - 31 THIS AREA SHALL BE PROTECTED BY A HYDRAULICALLY DESIGNED AUTOMATIC WET PIPE SPRINKLER SYSTEM (ZONE #1), PER NFPA 13. FIRE PROTECTION PIPING IS SHOWN FOR COORDINATION PURPOSES. ALL FIRE PROTECTION PIPING SHALL BE PROVIDED ABOVE CEILINGS AND WITHIN WALL CAVITIES/CHASES.
 - 32 THIS AREA SHALL BE PROTECTED BY A HYDRAULICALLY DESIGNED AUTOMATIC WET PIPE SPRINKLER SYSTEM (ZONE #2), PER NFPA 13. FIRE PROTECTION PIPING IS SHOWN FOR COORDINATION PURPOSES. ALL FIRE PROTECTION PIPING SHALL BE PROVIDED ABOVE CEILINGS AND WITHIN WALL CAVITIES/CHASES.
 - 33 UP TO FLOOR CLEANOUT.
 - 34 VERTICAL STYLE FLOOR CONTROL VALVE ASSEMBLY WITH INSPECTORS TEST STATION.
 - 35 VP DOWN THROUGH SLAB.
 - 36 VP DOWN TO 2" VP THROUGH SLAB.
 - 37 VP UP TO FLOOR ABOVE FROM SAN.
 - 38 W DOWN TO FIXTURE(S). PROVIDE SHUTOFF VALVE BEHIND ACCESS PANEL.
 - 39 INSTALL PIPING WITHIN TRENCH UNDER ENTRY 100.

FLOOR PLAN - LOWER LEVEL - PLUMBING

PART FLOOR PLAN - LOWER LEVEL - PLUMBING



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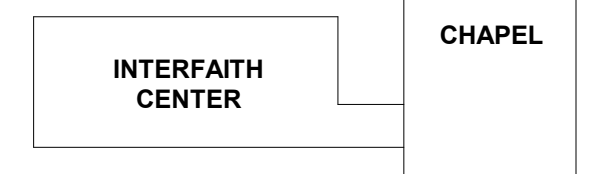
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**FLOOR PLAN - LOWER LEVEL
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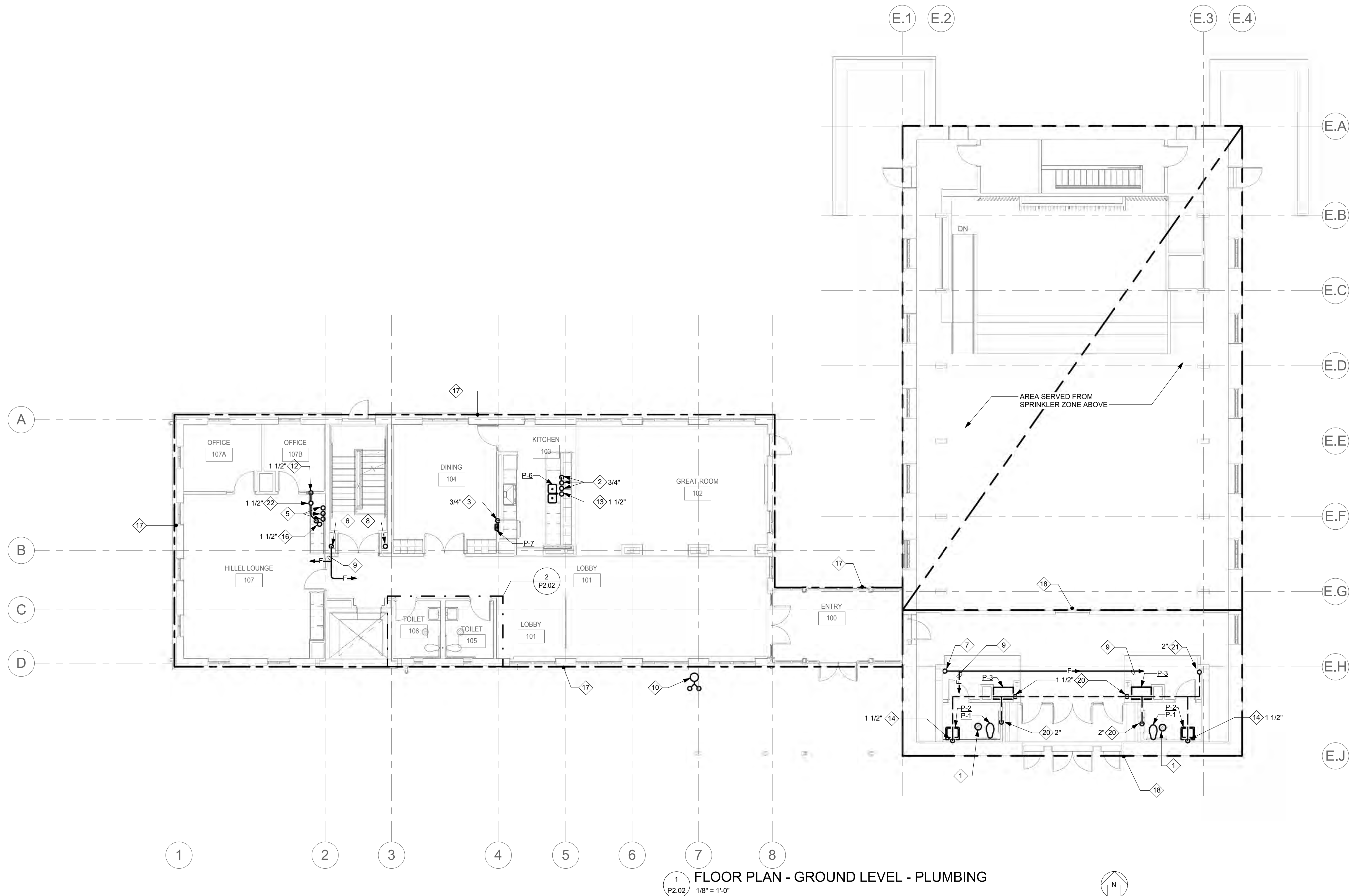
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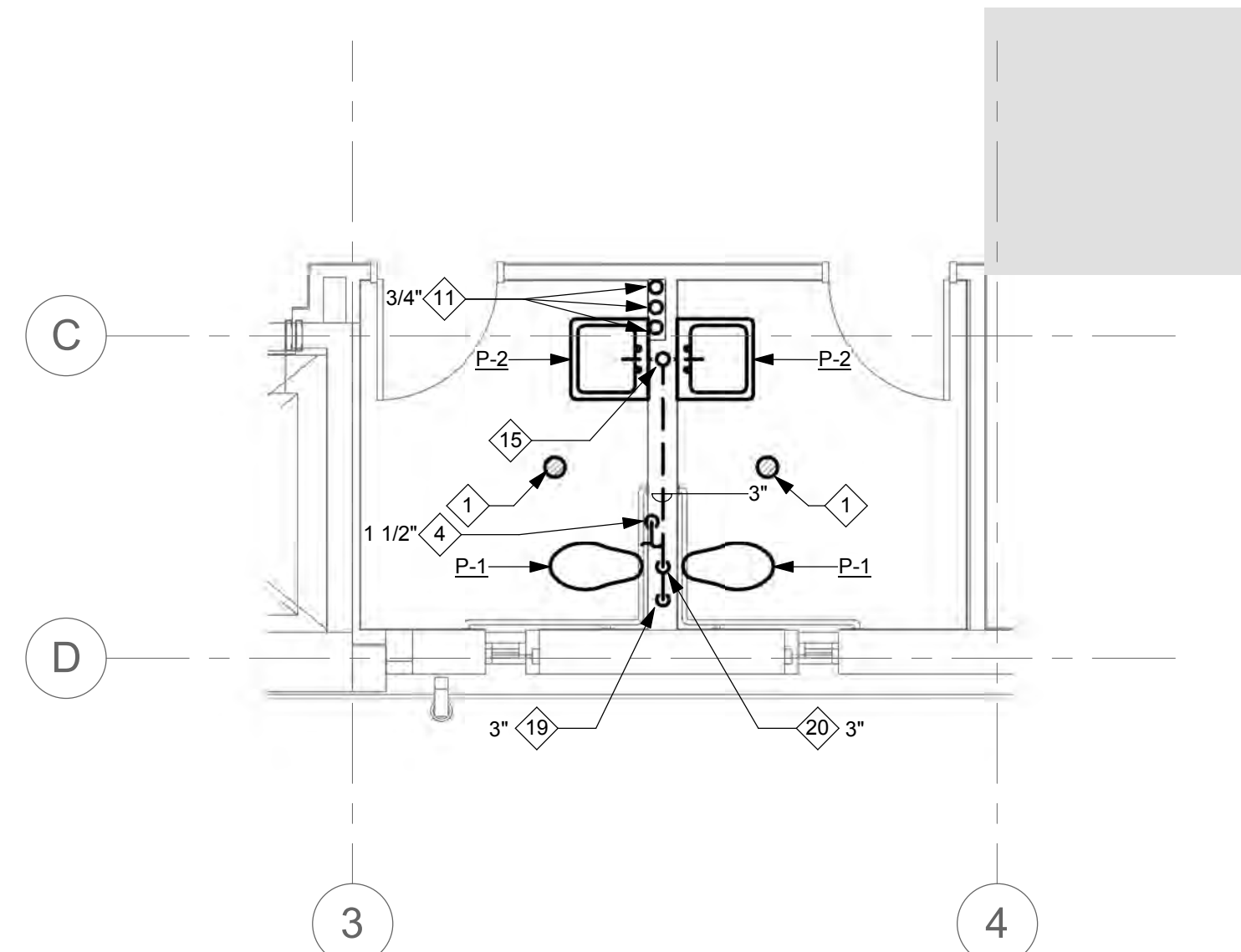
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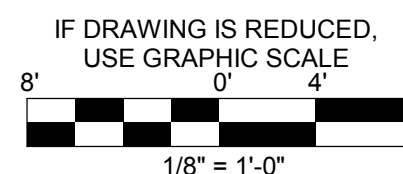
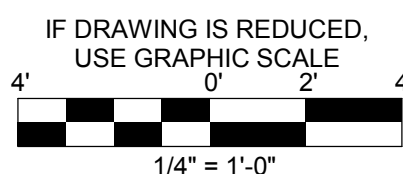
- 1 3" TYPE "A" FLOOR DRAIN WITH AUTOMATIC TRAP PRIMING CONNECTION SERVED FROM NEAREST FLUSH VALVE TAILPIECE.
- 2 CW AND HW FROM FLOOR BELOW TO FIXTURE(S). CONNECT 3/4" HWR TO HW IN VERTICAL.
- 3 CW FROM FLOOR BELOW TO FIXTURE(S).
- 4 CW FROM FLOOR BELOW TO FIXTURES. PROVIDE SHUTOFF VALVE BEHIND ACCESS PANEL AT 12" AFF.
- 5 CW, HW AND HWR FROM FLOOR BELOW TO FIXTURE(S).
- 6 DEDICATED SPRINKLER SUPPLY PIPE (ZONE #3) DOWN.
- 7 DEDICATED SPRINKLER SUPPLY PIPE (ZONE #4) UP AND DOWN.
- 8 DEDICATED SPRINKLER SUPPLY PIPE (ZONE #5) UP AND DOWN.
- 9 EXTEND TO AUTOMATIC WET PIPE SPRINKLER SYSTEM FOR THIS FLOOR.
- 10 FREE STANDING FIRE DEPARTMENT CONNECTION.
- 11 HWR, HW, AND CW FROM FLOOR BELOW UP TO HWMV-2 IN RECESSED CABINET. EXTEND 1/2" TW FROM MIXING VALVE TO FIXTURES, CONCEALED WITHIN WALL. MOUNT BOTTOM OF CABINET 6" AFF.
- 12 SAN DOWN THROUGH SLAB.
- 13 SAN FROM FIXTURE THROUGH FLOOR. PROVIDE AIR ADMITTANCE VALVE AT NOT LESS THAN 4" ABOVE TRAP WIER.
- 14 SAN FROM FIXTURE TO SAN THROUGH FLOOR. 1 1/2" VP DOWN TO SAN.
- 15 SAN FROM FIXTURES DOWN THROUGH FLOOR. 1 1/2" VP DOWN TO SAN AND UP TO 3" VTR.
- 16 SAN UP TO FIXTURE ON FLOOR ABOVE.
- 17 THIS AREA SHALL BE PROTECTED BY A HYDRAULICALLY DESIGNED AUTOMATIC WET PIPE SPRINKLER SYSTEM (ZONE #3). PER NFPA 13. FIRE PROTECTION PIPING IS SHOWN FOR COORDINATION PURPOSES. ALL FIRE PROTECTION PIPING SHALL BE PROVIDED ABOVE CEILINGS AND WITHIN WALL CAVITIES/CHASES.
- 18 THIS AREA SHALL BE PROTECTED BY A HYDRAULICALLY DESIGNED AUTOMATIC WET PIPE SPRINKLER SYSTEM (ZONE #4). PER NFPA 13. FIRE PROTECTION PIPING IS SHOWN FOR COORDINATION PURPOSES. ALL FIRE PROTECTION PIPING SHALL BE PROVIDED ABOVE CEILINGS AND WITHIN WALL CAVITIES/CHASES.
- 19 VP DOWN THROUGH FLOOR AND CONNECT TO 2" VP IN VERTICAL, APPROXIMATELY 18" AFF.
- 20 VP DOWN THROUGH FLOOR TO SAN BELOW.
- 21 VP UP.
- 22 VP UP TO FLOOR ABOVE FROM SAN.



FLOOR PLAN - GROUND LEVEL - PLUMBING



PART FLOOR PLAN - GROUND LEVEL - PLUMBING



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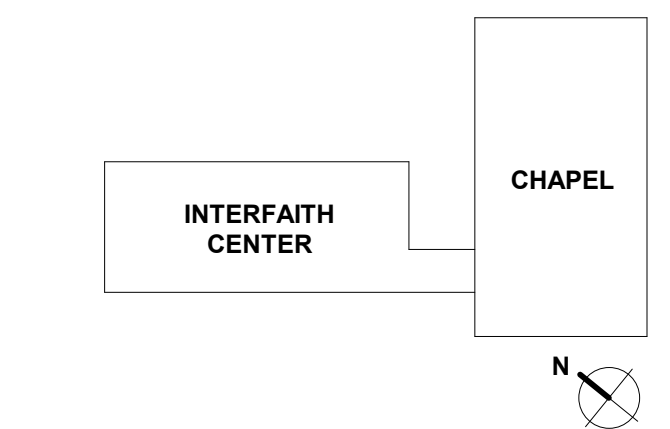
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FLOOR PLANS - GROUND LEVEL - PLUMBING

DRAWING NUMBER
P2.02

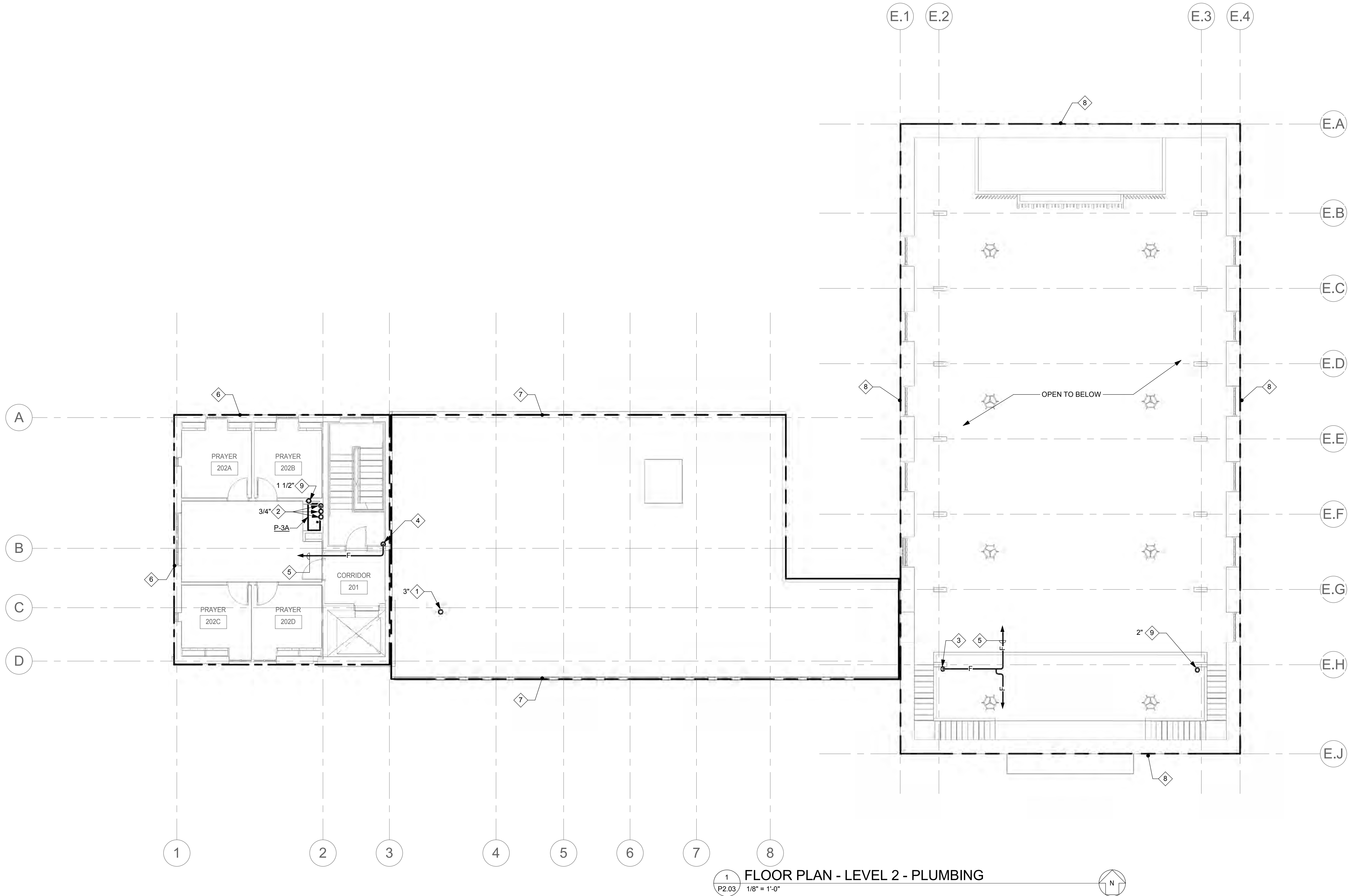
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DRAWING NOTES:

- A. REFER TO DRAWING M0.01 FOR LEGEND, ABBREVIATIONS AND DRAWING CONVENTIONS.
- B. EXISTING CONDITIONS SHOWN ARE BASED ON LIMITED FIELD SURVEY AND EXISTING DOCUMENTATION. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS, INDICATED OR OTHERWISE.
- C. UNLESS OTHERWISE NOTED, PIPING AND DUCTWORK SHOWN IS CONCEALED ABOVE CEILING.
- D. COORDINATE ALL DEMOLITION WORK WITH NEW WORK CONSTRUCTION.

SPECIAL NOTES:

- 1 3" VTR
- 2 CW, HW AND HWR FROM FLOOR BELOW TO FIXTURE(S).
- 3 DEDICATED SPRINKLER SUPPLY PIPE (ZONE #4) DOWN.
- 4 DEDICATED SPRINKLER SUPPLY PIPE (ZONE #5) DOWN.
- 5 EXTEND TO AUTOMATIC WET PIPE SPRINKLER SYSTEM FOR THIS FLOOR
- 6 THIS AREA SHALL BE PROTECTED BY A HYDRAULICALLY DESIGNED AUTOMATIC WET PIPE SPRINKLER SYSTEM (ZONE #5). PER NFPA 13. FIRE PROTECTION PIPING IS SHOWN FOR COORDINATION PURPOSES. ALL FIRE PROTECTION PIPING SHALL BE PROVIDED ABOVE CEILINGS AND WITHIN WALL CAVITIES/CHASES.
- 7 THIS AREA SHALL BE PROTECTED BY A HYDRAULICALLY DESIGNED AUTOMATIC WET PIPE SPRINKLER SYSTEM (ZONE #3). PER NFPA 13. FIRE PROTECTION PIPING IS SHOWN FOR COORDINATION PURPOSES. ALL FIRE PROTECTION PIPING SHALL BE PROVIDED ABOVE CEILINGS AND WITHIN WALL CAVITIES/CHASES.
- 8 THIS AREA SHALL BE PROTECTED BY A HYDRAULICALLY DESIGNED AUTOMATIC WET PIPE SPRINKLER SYSTEM (ZONE #4). PER NFPA 13. FIRE PROTECTION PIPING IS SHOWN FOR COORDINATION PURPOSES. ALL FIRE PROTECTION PIPING SHALL BE PROVIDED ABOVE CEILINGS AND WITHIN WALL CAVITIES/CHASES.
- 9 VP DOWN THROUGH FLOOR AND UP TO 3" VTR.

IF DRAWING IS REDUCED,
USE GRAPHIC SCALE

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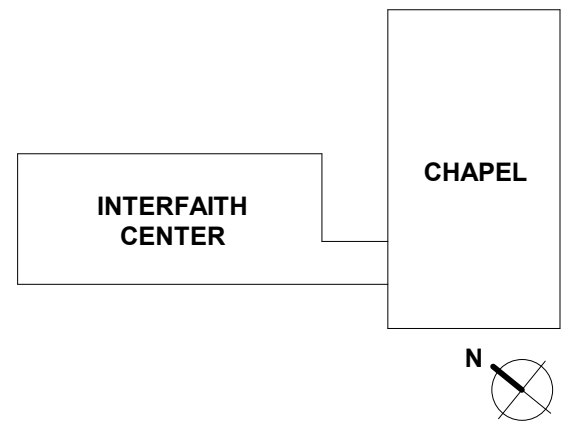
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FLOOR PLANS - LEVEL 2 -
PLUMBING

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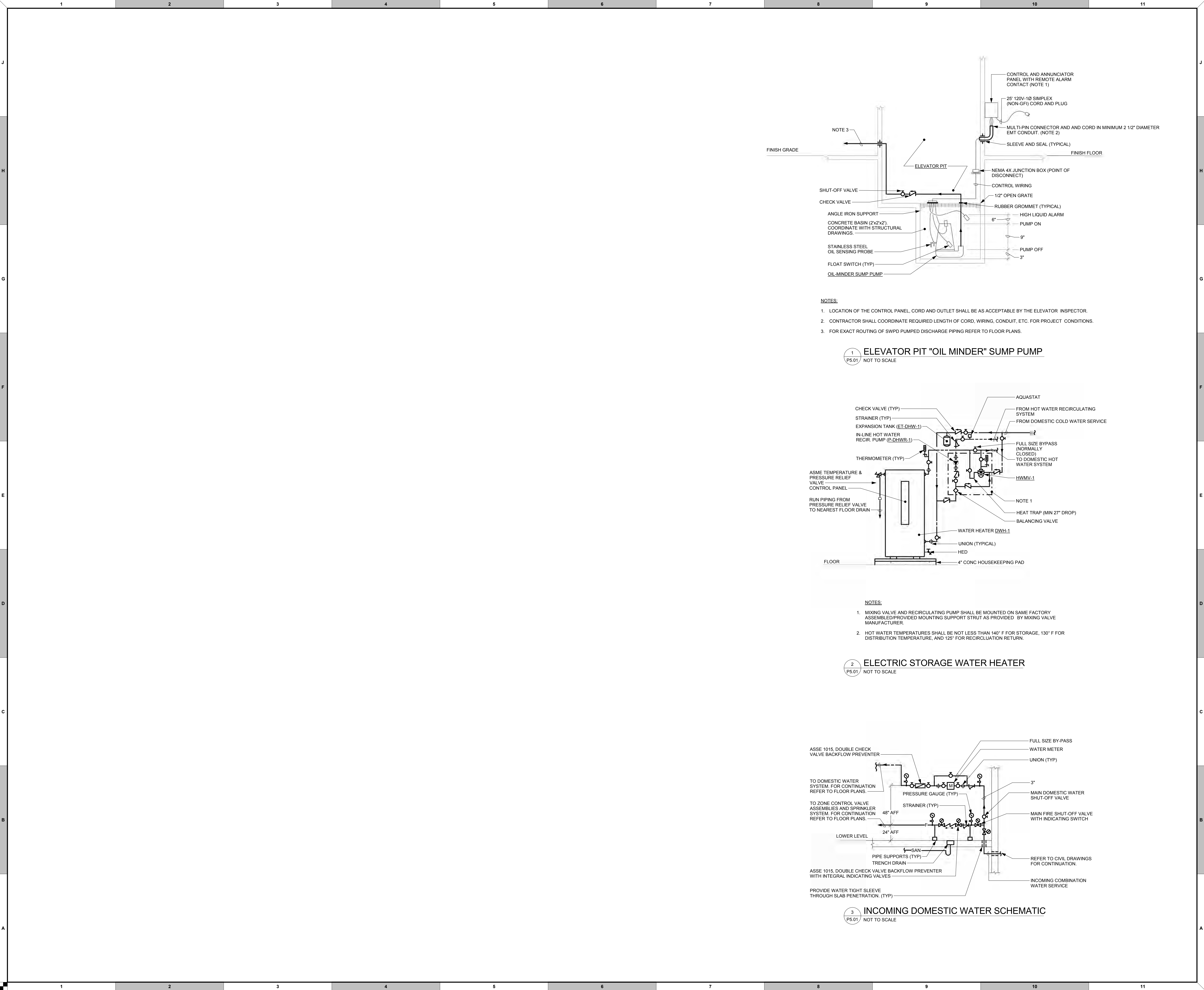
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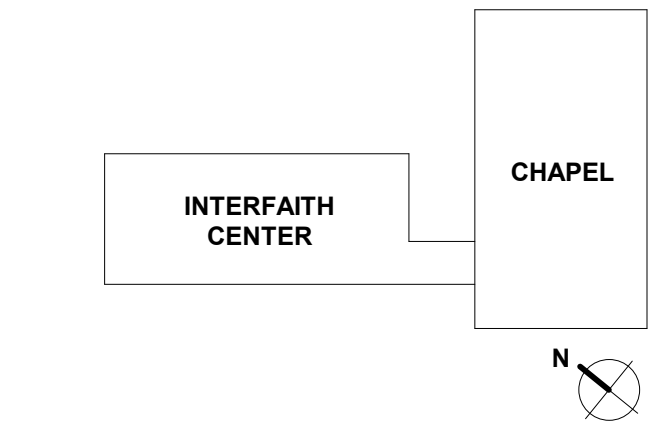
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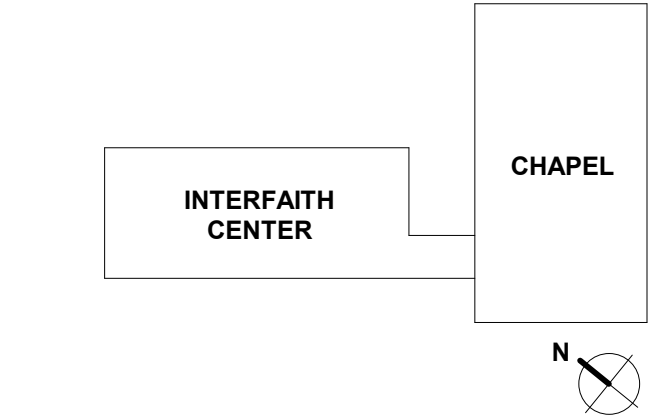
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SCHEDULES

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PLUMBING FIXTURE SCHEDULE

NOTES

- PROVIDE WITH MAXIMUM 110° F HOT WATER VIA ASSE 1070 THERMOSTATIC MIXING VALVE.
- MOUNT THERMOSTATIC MIXING VALVE IN RECESSED CABINET. MOUNT BOTTOM OF CABINET 18" AFF.
- MOUNT THERMOSTATIC MIXING VALVE EXPOSED ON WALL UNDER EXISTING FIXTURE.
- PROVIDE WITH ASSE 1016 PRESSURE AND TEMPERATURE BALANCING MIXING VALVE AND HANDHELD SHOWER HEAD
- PROVIDE WITH ASSE 1071 TEPID WATER MIXING VALVE PER ANSI Z358.1 STANDARD
- PROVIDE CONNECTION IN CW SUPPLY TO OUTLET BOX WITH ASSE 1024 DUAL CHECK VALVE BACKFLOW PREVENTER LOCATED EXPOSED ON WALL UNDER OUTLET BOX.
- EXISTING FIXTURE, PROVIDE NEW FAUCET AND CONNECT TO EXISTING WATER SUPPLY ROUGH-INS

DESIG	DESCRIPTION	FIXTURE UNITS		ROUGH-IN CONNECTION (IN)						REMARKS
		WASTE	WATER	SAN	VENT	CW	HW	TW		
P-1	WATER CLOSET	4	10	2"	1"	1"			FLOOR MOUNTED, BARRIER FREE, SENSOR OPERATED FLUSH VALVE; 1.28 GPF	
P-1A	WATER CLOSET	4	10	3"	1 1/2"	1/2"			FLOOR MOUNTED, BARRIER FREE, FLUSH TANK; 1.28 GPF	
P-2	LAVATORY	2	2	1 1/2"	1 1/2"	1/2"	1/2"		WALL MOUNTED, BARRIER FREE, SENSOR OPERATED, NOTE 1 AND 2.; 0.5 GPM	
P-2A	LAVATORY	2	2	1 1/2"	1 1/2"	1/2"	1/2"		NOTE 2 AND 7; 0.5 GPM	
P-3	ABLUTION SINK	2	2	2"	1 1/2"	1/2"	1/2"		FLOOR MOUNTED, BARRIER FREE, MANUALLY OPERATED, NOTE 1	
P-3A	ABLUTION SINK	2	2	1 1/2"	1 1/2"	1/2"	1/2"		FLOOR MOUNTED, BARRIER FREE, MANUALLY OPERATED, NOTE 1	
P-4	SHOWER	2	1.4	2"	1 1/2"	1/2"	1/2"		NOTE 4; 1.5 GPM	
P-5	EMERGENCY EYEFACE WASH	0	0	1 1/2"	1 1/2"			1/2"	NOTE 5; MOUNT MIXING VALVE IN SURFACE MOUNTED CABINET	
P-6	KITCHENETTE SINK	2	1.4	1 1/2"	1 1/2"	1/2"	1/2"		UNDERCOUNTER MOUNTED, BARRIER FREE; 1.5 GPM	
P-7	REFRIGERATOR OUTLET BOX		0.25			1/2"			WALL MOUNTED, RECESSED, MOUNT 48" ABOVE FLOOR; NOTE 6	
P-8	MOP RECEPTOR	3	3	3"	1 1/2"	1/2"	1/2"	1/2"	FLOOR MOUNTED WITH EMERGENCY EYEWASH SPRAYER; NOTE 5	

PUMPS - PLUMBING

DESIG	LOCATION	SERVICE	WATER FLOWRATE (GPM)	HEAD (FT HD)	MOTOR HP	ELECTRICAL			NOTES
						VOLTS	PH	HZ	
P-DWHR-1	012 BUILDING SUPPORT	DOMESTIC HOT WATER	5.0	15.0	0.5	120	1	60	---
P-ELEV-1	ELEVATOR	ELEVATOR SUMP	50.0	25.0	0.5	120	1	60	PUMP CONTROLLER LOCATED IN 012 BUILDING SUPPORT.

FLOOR DRAINS

DESIG	DESCRIPTION	CONNECTION		REMARKS
		SYSTEM	SIZE (IN)	
FD-A	TOILET ROOM FLOOR DRAIN	SAN	3"	
FD-B	MECHANICAL ROOM FLOOR DRAIN	SAN	4"	
FD-C	CONDENSATE FLOOR DRAIN	SW	4"	PROVIDE WITH RAISED COLLAR AND FUNNEL
FD-D	TRENCH DRAIN	SAN	4"	

DOMESTIC HOT WATER MIXING VALVES

DESIG	LOCATION	SERVICE	GPM	HOT WATER TEMP. (°F)	MAX. PRESSURE DROP (PSI)	HEAT TRAP	REMARKS
HWMV-1	BUILDING SUPPORT 012	DOMESTIC HOT WATER DWH-1	20	130	10	27"	ASSE 1017.
HWMV-2	TOILET	LAVATORIES	0.5	110	10	---	ASSE 1070.
HWMV-3	BUILDING SUPPORT 012	P-5 EMERGENCY FIXTURES	5	85	10	---	ASSE 1071.

EXPANSION TANKS

DESIG	LOCATION	SERVICE	TANK VOLUME (GALLONS)	ACCEPTANCE VOLUME (GALLONS)	FILL PRESSURE (PSIG)	RELIEF VALVE SETTING (PSIG)	EQUALIZER PIPE SIZE (IN)	NOTES
ET-DHW-1	MER	DOMESTIC HOT WATER	16	8	80	125	3/4	B.O.D. AMTROL SERIES ST

ELECTRIC STORAGE WATER HEATER

DESIG	STORAGE (GAL.)	RECOVERY @ 100°F RISE (GPH)	KW TOTAL (MAX)	VOLTS/PHASE/HZ	NOTES
DWH-1	65	37	9	208/3/60	

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ABBREVIATIONS

A	AMPERES
AC	ALTERNATING CURRENT
ACU	AIR CONDITIONING UNIT
AF	AMPERES FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AIC	AMPERES INTERRUPTING CAPACITY
ARCH	ARCHITECTURAL
AT	AMPERES TRIP
ATC	AUTOMATIC TEMPERATURE CONTROL
AWG	AMERICAN WIRE GAGE
AV	AUDIOVISUAL
BLDG	BUILDING
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CLG	CEILING
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
CX	CONNECT TO EXISTING
DC	DIRECT CURRENT
DESIG	DESIGNATION
DN	DOWN
DWG	DRAWING
DX	DISCONNECT EXISTING
EA	EACH
EC	EMPTY CONDUIT
ECB	ENCLOSED CIRCUIT BREAKER
EF	EXHAUST FAN
EH	ELECTRIC HEATER
ELEC	ELECTRIC
EMH	ELECTRIC MANHOLE
EMT	ELECTRICAL METALLIC TUBING
EQUIP	EQUIPMENT
EW	ELECTRIC WATER COOLER
EHW	ELECTRIC WATER HEATER
EX	EXISTING
F	FUSE
FDAS	FIRE DETECTION ALARM SYSTEM
FDR	FEEDER
FLA	FULL LOAD AMPERES
FMC	FLEXIBLE METAL CONDUIT
FS	FUSIBLE SWITCH
FT	FOOT OR FEET
FVNR	FULL VOLTAGE NON-REVERSING
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
HID	HIGH INTENSITY DISCHARGE
HQA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HPS	HIGH PRESSURE STEAM
HTR	HEATER
HV	HIGH VOLTAGE
HZ	HERTZ
IMC	INTERMEDIATE METAL CONDUIT
JB	JUNCTION BOX
KCML	THOUSAND CIRCULAR MILS
KV	KILOVOLTS
KVA	KILOVOLT-AMPERE(S)
KW	KILOWATT(S)
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
LTG	LIGHTING
MAFC	MAKE ALL FINAL CONNECTIONS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MH	MOUNTING HEIGHT (TO CENTERLINE OF DEVICE UNLESS OTHERWISE NOTED)
MLO	MAIN LUGS ONLY
MOA	MULTI-OUTLET ASSEMBLY
MS	MANUAL SWITCH
MTD	MOUNTED
MV	MEDIUM VOLTAGE
N	NEUTRAL
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFS	NON-FUSED SWITCH
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
OL	OVERLOAD
P	POLE
PH	PHASE
PNL	PANEL
PVC	POLYVINYL CHLORIDE
RECEPT	RECEPTACLE(S)
REQ'D	REQUIRED
RF	RETURN FAN
RM(C)	RIGID METAL CONDUIT
RM(S)	ROOMS
RVAT	REDUCED VOLTAGE AUTOTRANSFORMER
RX	REMOVE EXISTING
SF	SUPPLY FAN
SMR	SURFACE METAL RACEWAY
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TA	TRIP AMPERES
TTB	TELEPHONE TERMINAL BOARD
TTC	TELEPHONE TERMINAL CABINET
TYP	TYPICAL
UG	UNDERGROUND
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
V	VOLT(S)
VA	VOLT-AMPERE(S)
VT	VOLTAGE TRANSFORMER
VFC	VARIABLE FREQUENCY CONTROLLER
W	WIRE
W/	WITH
WP	WEATHERPROOF
XFMR	TRANSFORMER

SYMBOLS

LIGHTING

	SINGLE POLE SWITCH MOUNTED 48" ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED
	SUBSCRIPTS AS FOLLOWS: 3 - THREE WAY SWITCH
	4 - FOUR WAY SWITCH
	D - DIMMER SWITCH
	DS - COMBINATION OCCUPANCY/DIMMER SWITCH
	OS - OCCUPANCY SENSOR
	P - SWITCH WITH PILOT LIGHT
	T - TIME SWITCH
	WP - SWITCH WITH WEATHERPROOF COVER
	a - LOWER CASE LETTER INDICATES SWITCH LEG
	LIGHTING FIXTURE
	LIGHTING FIXTURE, PENDANT MOUNTED
	LIGHTING FIXTURE, WALL MOUNTED
	INDUSTRIAL LIGHTING FIXTURE
	LIGHTING TRACK
	LIGHTING FIXTURE, TRACK MOUNTED
	LIGHTING FIXTURE, CEILING MOUNTED
	LIGHTING FIXTURE, WALL MOUNTED
	LIGHTING FIXTURE, WALL WASHER
	DECORATIVE LIGHTING FIXTURE, PENDANT MOUNTED
	DECORATIVE LIGHTING FIXTURE, SURFACE MOUNTED
	EXIT SIGN - BACK MOUNTED WITH DIRECTIONAL INDICATORS AS SHOWN
	EXIT SIGN - TOP OR PENDANT MOUNTED, SINGLE FACE WITH DIRECTIONAL INDICATORS AS SHOWN
	EXIT SIGN - TOP OR PENDANT MOUNTED, DOUBLE FACE WITH DIRECTIONAL INDICATORS AS SHOWN
	EMERGENCY LIGHTING UNIT MOUNTED 90" AFF
	OCCUPANCY SENSOR, CEILING MOUNTED - ARROWS INDICATE DIRECTION OF SENSOR BEAM AIMING
	OCCUPANCY SENSOR, WALL MOUNTED - ARROWS INDICATE DIRECTION OF SENSOR BEAM AIMING
	PHOTOELECTRIC CONTROL SWITCH
	TIMECLOCK
	CONTACTOR MOUNTED 5'-6" TO TOP OF ENCLOSURE

POWER - FLOOR PLANS

	SINGLE RECEPTACLE MOUNTED 18" AFF, UNLESS OTHERWISE NOTED
	DUPLEX RECEPTACLE MOUNTED 18" AFF, UNLESS OTHERWISE NOTED
	SUBSCRIPTS AS FOLLOWS E - CONNECTED TO EMERGENCY CIRCUIT G - GROUND FAULT INTERRUPTER TYPE IG - ISOLATED GROUND WC - WATER COOLER WP - WEATHERPROOF (WET LOCATION) 84" - MOUNTING HEIGHT AS INDICATED
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER, 6" ABOVE BACKSPASH
	QUAD RECEPTACLE MOUNTED 18" AFF, UNLESS OTHERWISE NOTED
	SPECIAL RECEPTACLE MOUNTED 18" AFF, UNLESS OTHERWISE NOTED (NEMA CONFIGURATION AS INDICATED)
	SINGLE RECEPTACLE MOUNTED IN FLOOR
	DUPLEX RECEPTACLE MOUNTED IN FLOOR
	QUAD RECEPTACLE MOUNTED IN FLOOR
	SPECIAL RECEPTACLE MOUNTED IN FLOOR (NEMA CONFIGURATION AS INDICATED)
	SPECIALTY FLOOR BOX
	POKE-THRU TYPE FLOOR BOX
	JUNCTION BOX MOUNTED IN FLOOR
	DUPLEX RECEPTACLE MOUNTED FLUSH IN CEILING
	QUAD RECEPTACLE MOUNTED FLUSH IN CEILING
	CLOCK HANGER OUTLET MOUNTED 90" AFF, UNLESS OTHERWISE NOTED
	DUPLEX RECEPTACLES MOUNTED IN MULTI-OUTLET ASSEMBLY
	208Y/120V PANELBOARD (SURFACE MOUNTED)
	208Y/120V PANELBOARD (FLUSH MOUNTED)
	480Y/277V PANELBOARD (SURFACE MOUNTED)
	480Y/277V PANELBOARD (FLUSH MOUNTED)
	JUNCTION BOX
	PROJECTOR CONNECTION, PROVIDE DUPLEX RECEPTACLE MOUNTED FLUSH IN CEILING.
	HEATER CONNECTION
	ENGINE GENERATOR SET
	MOTOR CONNECTION
	PUSHBUTTON
	NON-FUSIBLE SWITCH
	FUSIBLE SWITCH
	MAGNETIC MOTOR STARTER
	COMBINATION MAGNETIC MOTOR STARTER
	ENCLOSED CIRCUIT BREAKER
	TRANSFORMER
	VARIABLE FREQUENCY CONTROLLER
	GROUND ROD
	MANUAL MOTOR STARTER MOUNTED 5'-0" AFF
	UNDERGROUND DUCT BANK

FIRE DETECTION AND ALARM SYSTEMS

	SMOKE DETECTOR I - IONIZATION P - PHOTOELECTRIC BT - BEAM TRANSMITTER BR - BEAM RECEIVER
	DUCT SMOKE DETECTOR
	HEAT DETECTOR R/F - COMBINATION RATE OF RISE AND FIXED TEMPERATURE R/C - RATE COMPENSATION F - FIXED TEMPERATURE R - RATE OF RISE
	MANUAL PULL STATION MOUNTED 48" AFF
	AUDIBLE DEVICE MOUNTED 6" BELOW CEILING OR 90" AFF, WHICHEVER IS LOWER
	STROBE LIGHT MOUNTED 6" BELOW CEILING OR 90" AFF, WHICHEVER IS LOWER (SUBSCRIPTED NUMBER INDICATES LUMINOUS INTENSITY OF STROBE LIGHT IN CANDELAS)
	COMBINATIONAL AUDIBLE DEVICE AND STROBE LIGHT MOUNTED 6" BELOW CEILING OR 90" AFF, WHICHEVER IS LOWER (SUBSCRIPTED NUMBER INDICATES LUMINOUS INTENSITY OF STROBE LIGHT IN CANDELAS)
	FLOW SWITCH CONNECTION
	VALVE TAMPER SWITCH CONNECTION
	MAGNETIC DOOR HOLDER
	MISCELLANEOUS BOXES AND DEVICES FACP - FIRE ALARM CONTROL PANEL FAA - FIRE ALARM ANNUNCIATOR PANEL ESR - ELEVATOR STATUS/RECALL FPS - FIRE PUMP STATUS EGS - EMERGENCY GENERATOR STATUS

TELECOMMUNICATIONS

	DATA OUTLET BOX MOUNTED 18" AFF, WITH 1" C TO ABOVE CEILING
	VOICE OUTLET BOX MOUNTED 18" AFF, WITH 1" C TO ABOVE CEILING
	DATA OUTLET BOX MOUNTED IN FLOOR, WITH 1" C TO ABOVE CEILING
	VOICE OUTLET BOX MOUNTED IN FLOOR, WITH 1" C TO ABOVE CEILING
	SPECIALTY VOICE OUTLET P - PAY STATION MOUNTED 48" AFF, WITH 1" C TO ABOVE CEILING W - WALL PHONE MOUNTED 48" AFF, WITH 1" C TO ABOVE CEILING
	VOICE/DATA OUTLET BOX MOUNTED 18" AFF, WITH 1" C TO ABOVE CEILING
	VOICE/DATA OUTLET BOX MOUNTED IN FLOOR, WITH 1" C TO ABOVE CEILING
	DATA JACK MOUNTED IN PEDESTAL
	DATA JACK MOUNTED IN FLUSH CEILING
	SPEAKER MOUNTED IN FLUSH CEILING
	SPEAKER MOUNTED IN WALL
	VOLUME CONTROL SWITCH MOUNTED 48" AFF
	MICROPHONE JACK MOUNTED IN FLOOR
	MICROPHONE JACK WALL MOUNTED 18" AFF, UNLESS OTHERWISE NOTED
	TELEPHONE BACKBOARD
	CABLE TRAY

POWER (ONE LINE)

	GROUND
	TRANSFORMER
	CURRENT TRANSFORMER
	VOLTAGE TRANSFORMER
	STATIONARY CIRCUIT BREAKER
	DRAW-OUT CIRCUIT BREAKER
	SHUNT-TRIP CIRCUIT BREAKER
	NETWORK PROTECTOR
	FUSE
	DISCONNECT SWITCH
	THERMAL OVERLOADS
	CONTACTS
	METER
	TRANSFER SWITCH
	LIGHTNING ARRESTOR
	KEY OPERATED MECHANICAL INTERLOCK
	FUSED CUTOUT
	FUSED DISCONNECT SWITCH

DRAWING CONVENTIONS

SYMBOL	DESCRIPTION												
	POINT OF CONNECTION - NEW TO EXISTING												
	DEMOLITION WORK TERMINATION POINT												
	INDICATES FEEDER												
	NUMBER INDICATES FEEDER DESIGNATION. REFER TO FEEDER SCHEDULE FOR CONDUCTOR AND CONDUIT SIZE												
	INDICATES SPECIAL NOTE												
	NUMBER INDICATES SPECIAL NOTE DESIGNATION REFER TO SPECIAL NOTE LIST ON DRAWING FOR DESCRIPTION OF ITEM												
	LIGHTING FIXTURE												
	SWITCH DESIGNATION												
	LIGHTING FIXTURE TYPE, REFER TO LIGHTING FIXTURE SCHEDULE												
	DIAGONAL LINE INDICATES EMERGENCY LIGHTING FIXTURE												
	INDICATES DIRECTION OF CUTTING PLANE												
	NUMBER OR LETTER INDICATES SECTION OR ELEVATION												
	DRAWING NUMBER WHERE ELEVATION OR SECTION IS TAKEN OR DRAWN												
	INDICATES PANELBOARD OR MOTOR CONTROL CENTER DESIGNATION AND CIRCUIT NUMBER												
	BRANCH CIRCUIT HOME RUN; ARROWHEADS INDICATE NUMBER OF CIRCUITS. INCLUDE ONE EQUIPMENT GROUND CONDUCTOR.												
	INDICATES WIRE SIZE (AWG OR CIRCULAR MILS) IF OTHER THAN BRANCH CIRCUIT WIRE SIZING STANDARD INDICATED BELOW.												
	EACH BRANCH CIRCUIT SHALL HAVE A DEDICATED NEUTRAL CONDUCTOR.												
	"E" INDICATES EMERGENCY CIRCUIT WITH 3#10 MINIMUM SIZE IN 3/4"C.												
BRANCH CIRCUIT WIRE SIZING STANDARD													
<table><tr><th>WIRE</th><th>DISTANCE FOR 120V</th><th>DISTANCE FOR 277V</th></tr><tr><td>#12</td><td>UP TO 75 FEET</td><td>UP TO 150 FEET</td></tr><tr><td>#10</td><td>UP TO 120 FEET</td><td>UP TO 250 FEET</td></tr><tr><td>#8</td><td>UP TO 190 FEET</td><td>UP TO 400 FEET</td></tr></table>	WIRE	DISTANCE FOR 120V	DISTANCE FOR 277V	#12	UP TO 75 FEET	UP TO 150 FEET	#10	UP TO 120 FEET	UP TO 250 FEET	#8	UP TO 190 FEET	UP TO 400 FEET	
WIRE	DISTANCE FOR 120V	DISTANCE FOR 277V											
#12	UP TO 75 FEET	UP TO 150 FEET											
#10	UP TO 120 FEET	UP TO 250 FEET											
#8	UP TO 190 FEET	UP TO 400 FEET											
	NUMBER OF PANEL OR EQUIPMENT												
	SECTION OF BUILDING												
	H = 480Y/277V												
	L = 208Y/120V												
	M = MOTOR CONTROL CENTER												
	T = TRANSFORMER												
	P = DEDICATED PANEL												
	E = EMERGENCY												
	S = STANDBY												
	D = DISTRIBUTION												
	CONDUIT RUN CONCEALED IN WALL OR CEILING IN FINISHED AREAS, EXPOSED IN UNFINISHED AREAS (3#12 IN 3/4"C UNLESS OTHERWISE NOTED)												
	CONDUIT UNDERGROUND OR UNDER SLAB (3#12 IN 3/4"C UNLESS OTHERWISE NOTED)												
	CONDUIT UP												
	CONDUIT DOWN												
	HEAVY LINE WEIGHT DESIGNATES NEW WORK ON NEW WORK PLANS, REMOVAL WORK ON DEMOLITION PLANS												
	LIGHT LINE WEIGHT DESIGNATES EXISTING WORK TO REMAIN												

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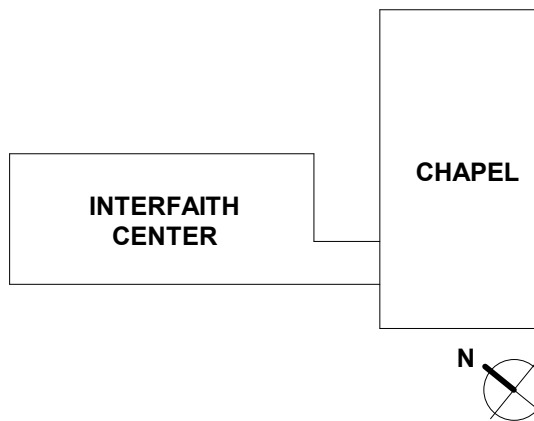
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PROJECT DESIGN PHASE

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DOCUMENTS

DRAWING NAME

ELECTRICAL LEGEND

DRAWING NUMBER

E001

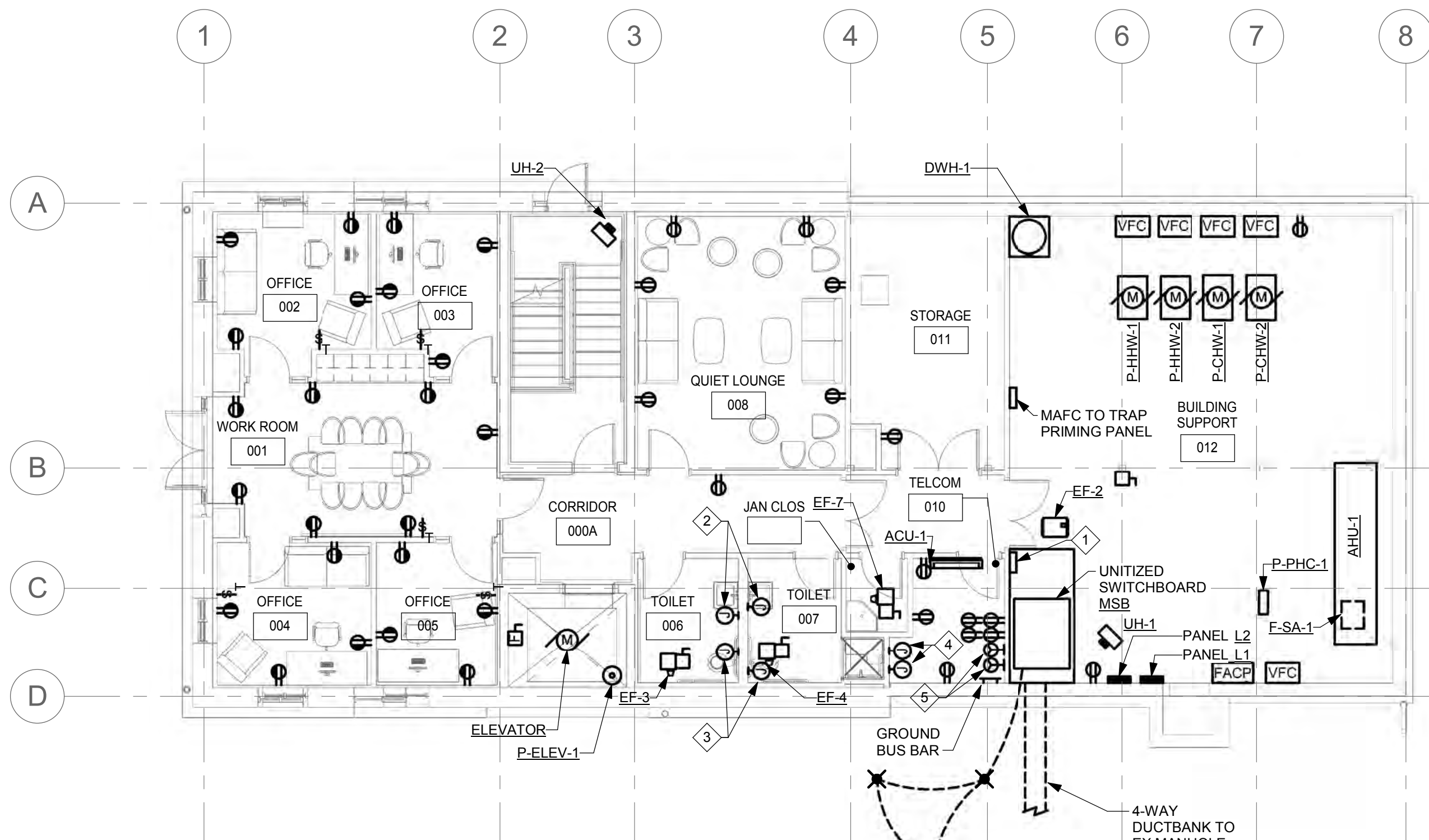
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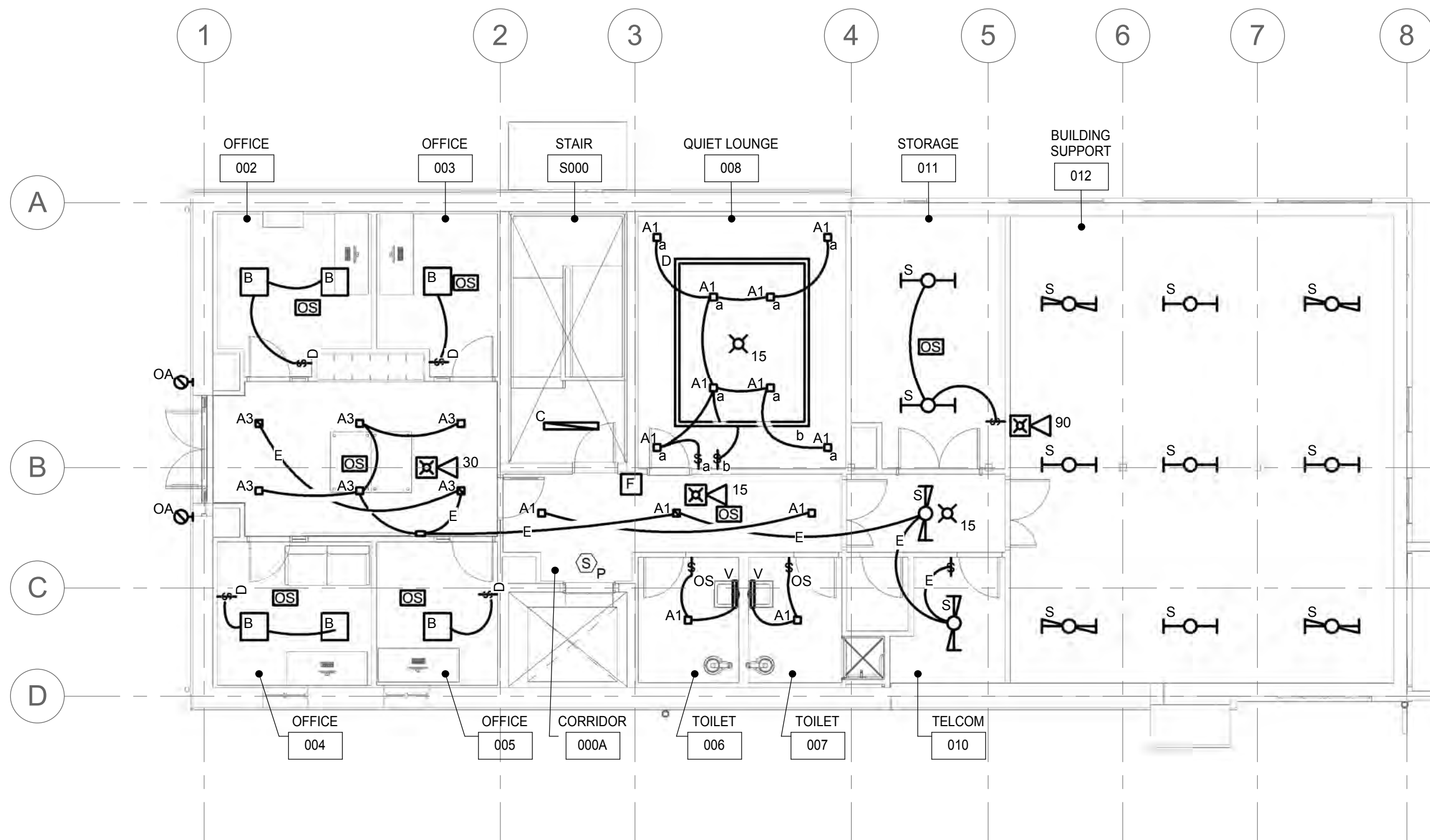
STAPLE EDGE

STAPLE EDGE

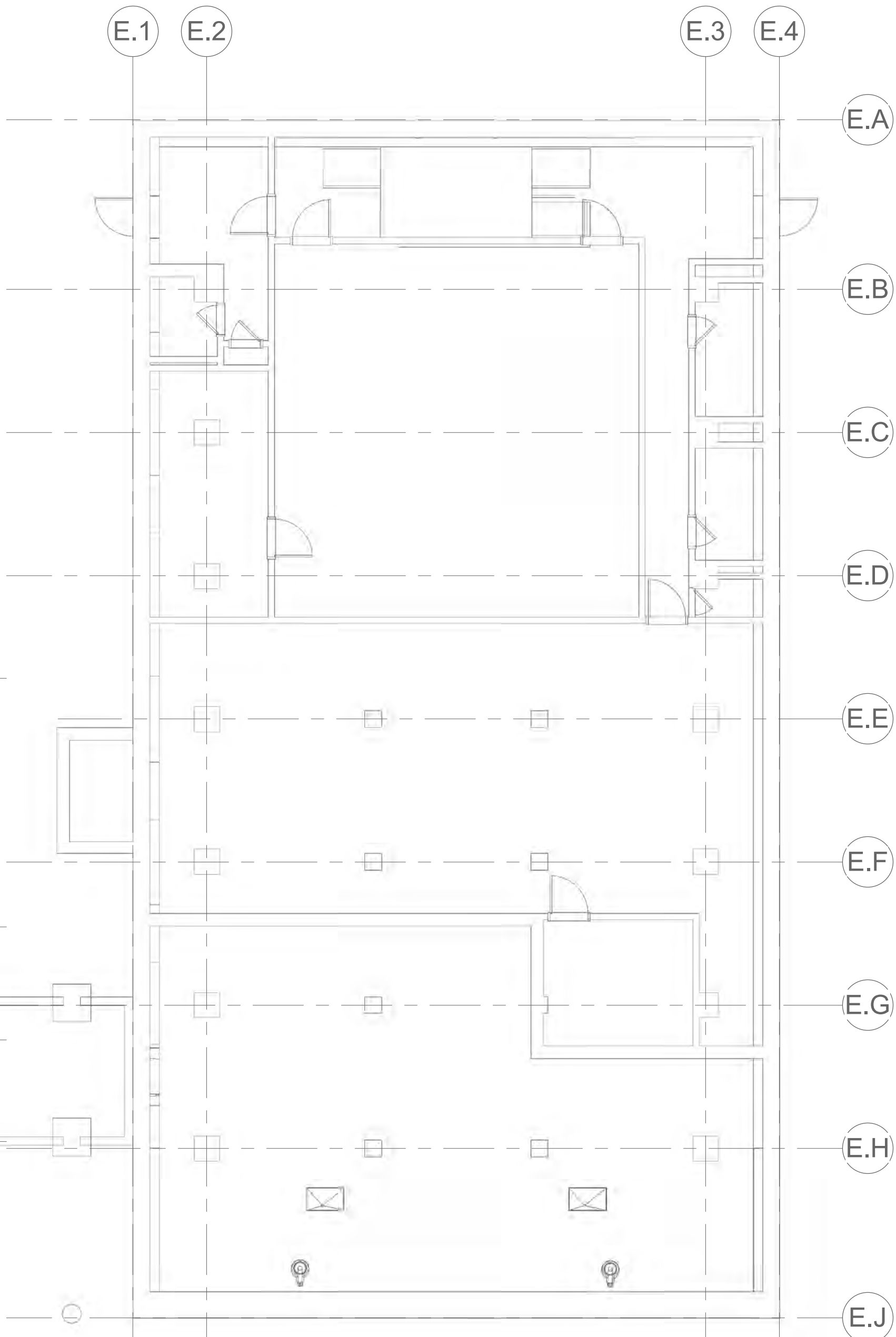
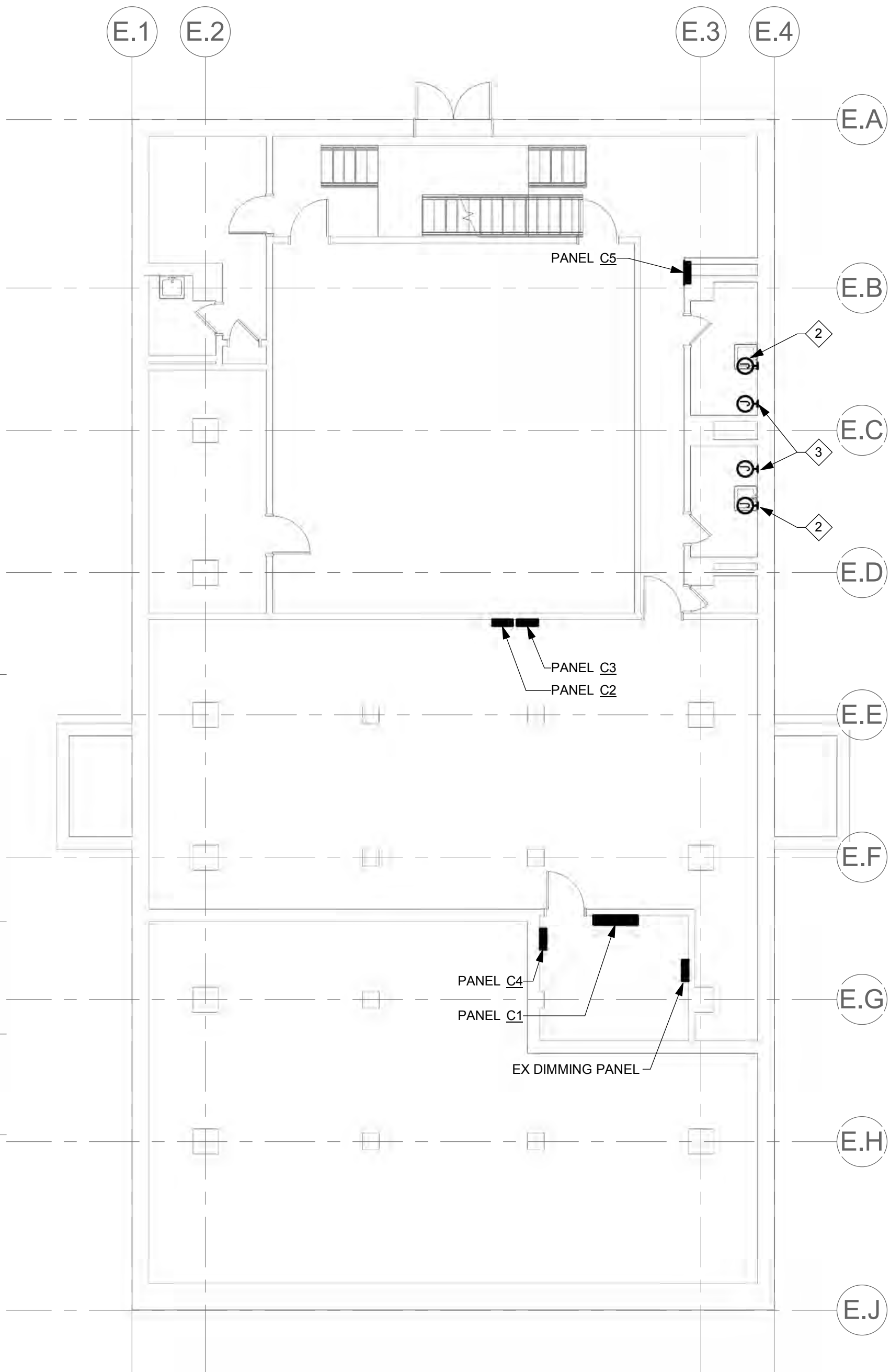
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1 FLOOR PLAN - LOWER LEVEL - POWER
E2.01 1/8" = 1'-0"



2 FLOOR PLAN - LOWER LEVEL - LIGHTING & FIRE ALARM
E2.01 1/8" = 1'-0"



DRAWING NOTES:

A FOR SYMBOLS, ABBREVIATIONS, AND DRAWING CONVENTIONS, REFER TO DRAWING E0.01.

SPECIAL NOTES:

- 1 MAKE ALL FINAL CONNECTIONS TO CONTROL PANEL FOR ELEVATOR SUMP PUMP, P-ELEV-1. COORDINATE CONNECTION REQUIREMENTS TO PUMP WITH MANUFACTURER.
- 2 MAKE ALL FINAL CONNECTIONS TO AUTOMATIC FAUCETS.
- 3 MAKE ALL FINAL CONNECTIONS TO AUTOMATIC TOILETS.
- 4 MAKE ALL FINAL CONNECTIONS TO SECURITY HEAD-END EQUIPMENT.
- 5 PROVIDE NEMA L5-30R.

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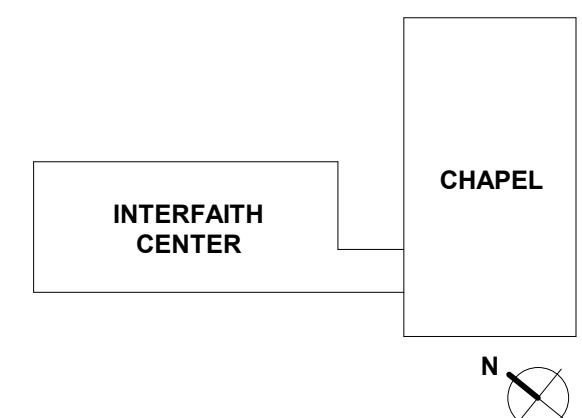
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DRAWN BY:	Author

PROJECT DESIGN PHASE

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DOCUMENTS

DRAWING NAME

FLOOR PLANS - LOWER LEVEL
- ELECTRICAL

DRAWING NUMBER

E2.01

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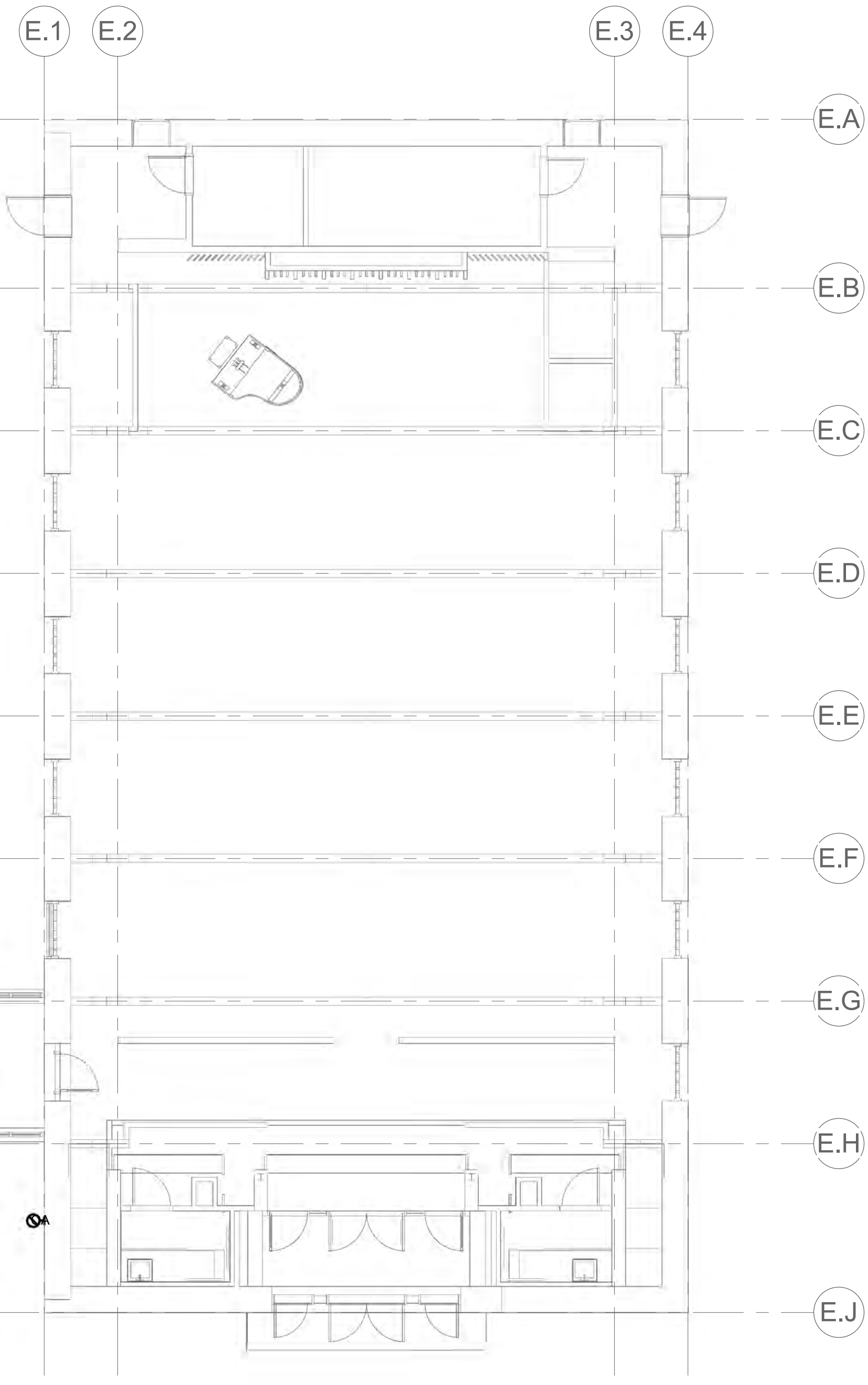
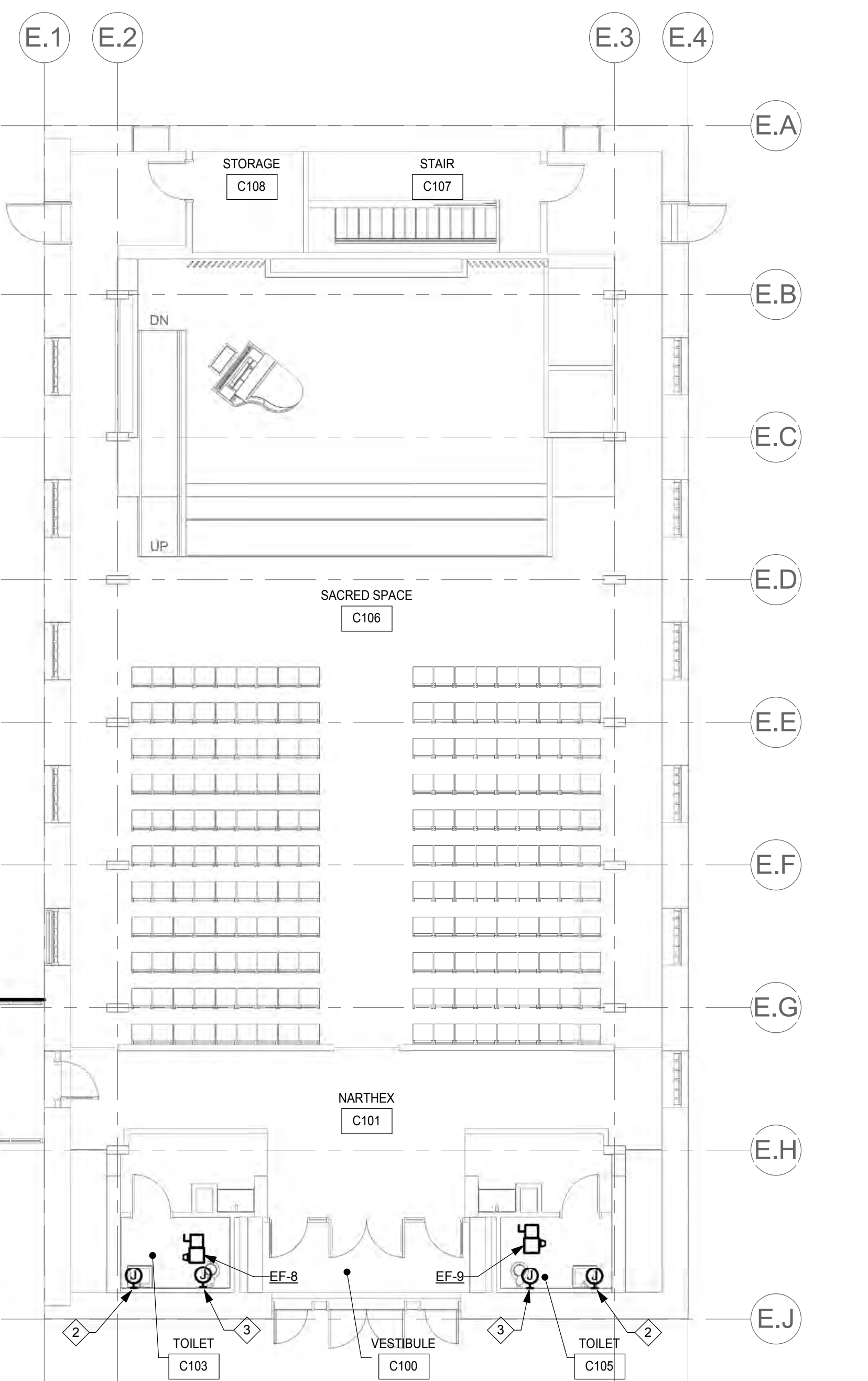
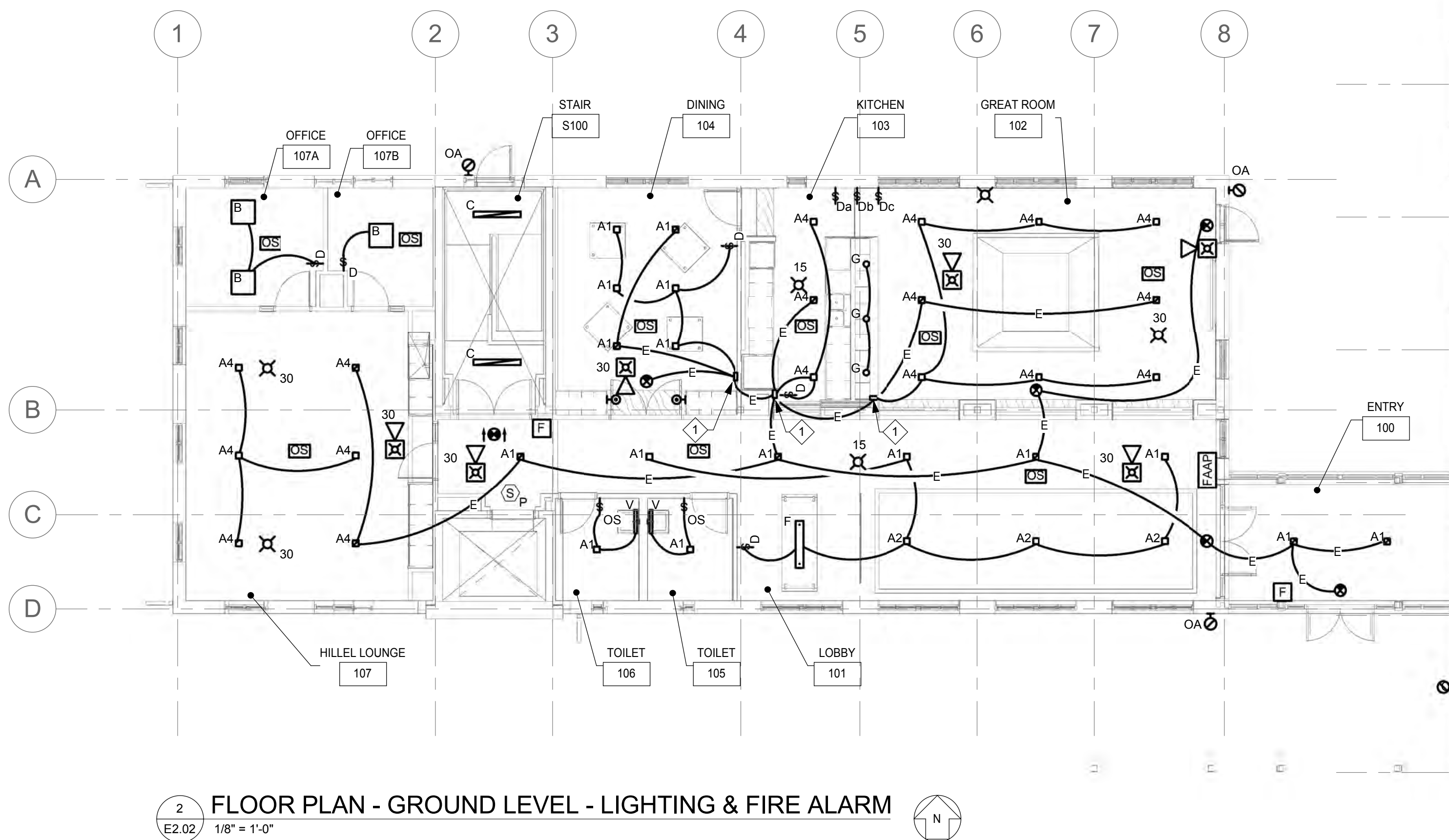
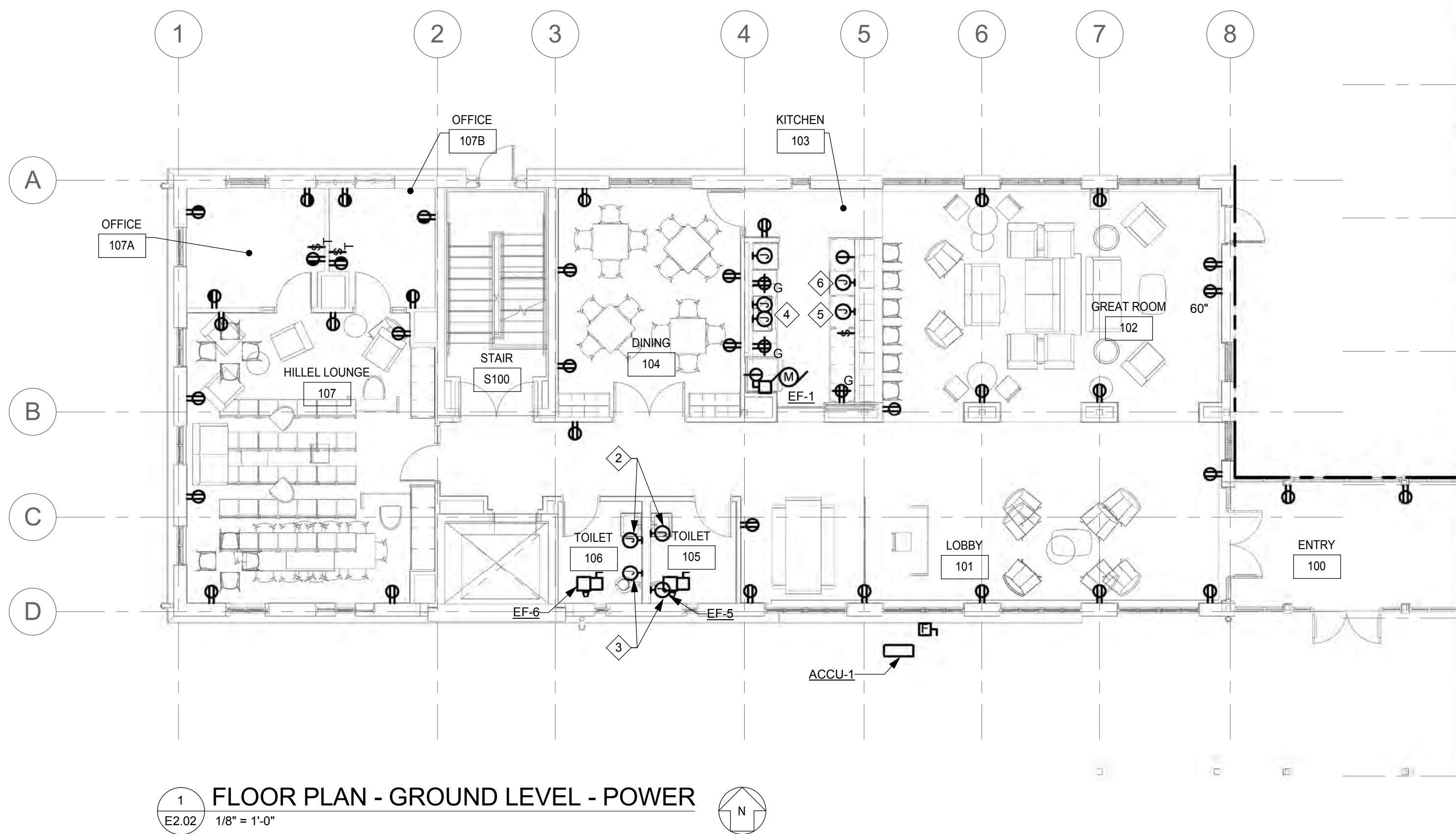
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STAPLE EDGE

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DRAWING NOTES:

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SPECIAL NOTES:

- EMERGENCY LIGHTING RELAY.
- MAKE ALL FINAL CONNECTIONS TO AUTOMATIC FAUCETS.
- MAKE ALL FINAL CONNECTIONS TO AUTOMATIC TOILETS.
- MAKE ALL FINAL CONNECTIONS TO RANGE AND RANGE HOOD.
- MAKE ALL FINAL CONNECTIONS TO DISPOSAL. COORDINATE LOCATION OF TOGGLE SWITCH WITH ARCHITECT.
- MAKE ALL FINAL CONNECTIONS TO DISHWASHER.

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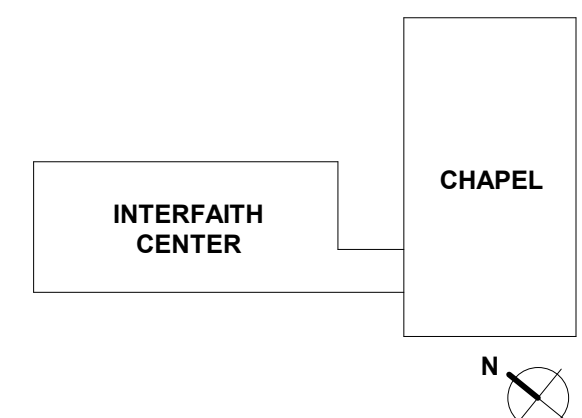
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**FLOOR PLANS - GROUND
LEVEL - ELECTRICAL**

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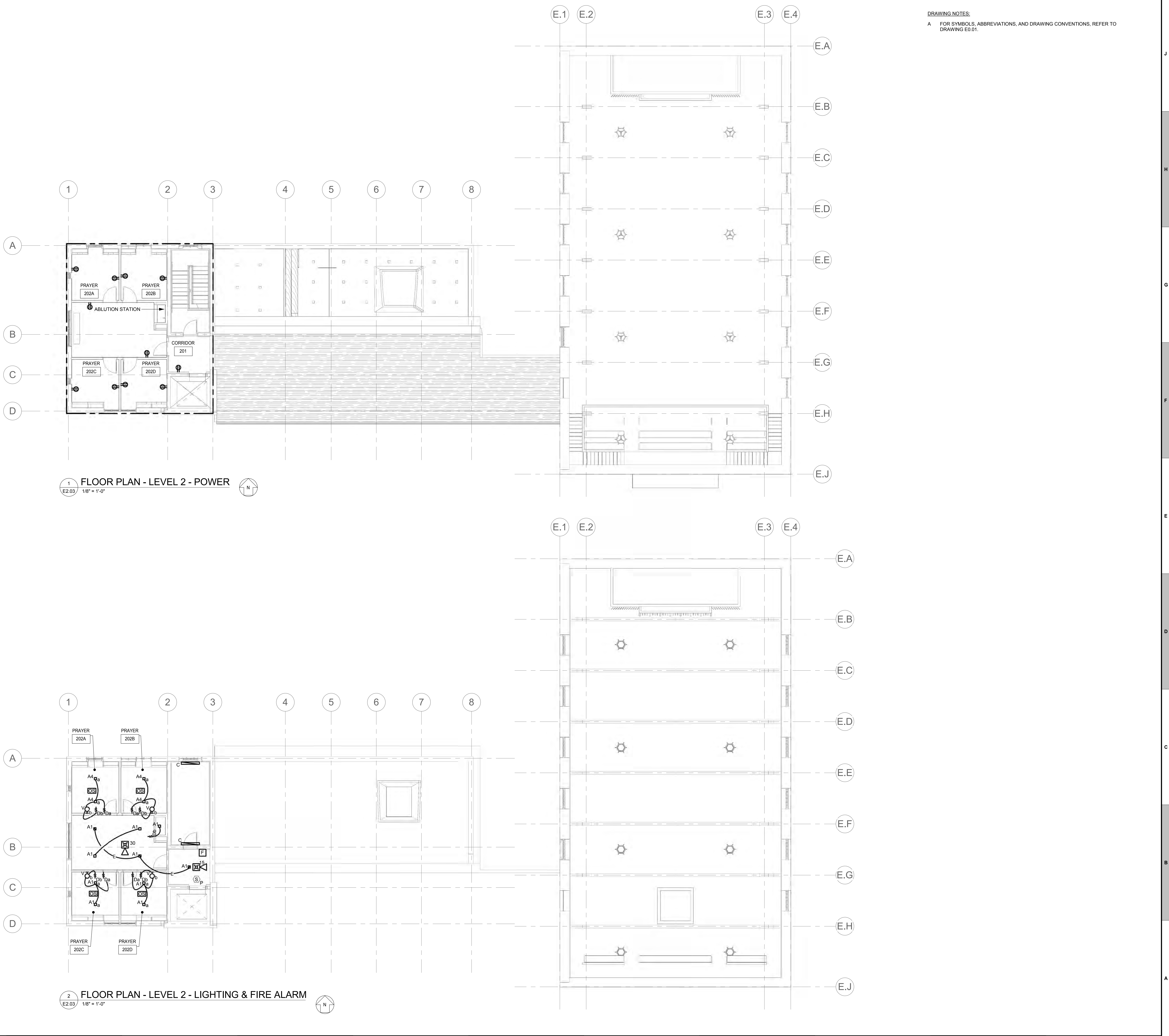
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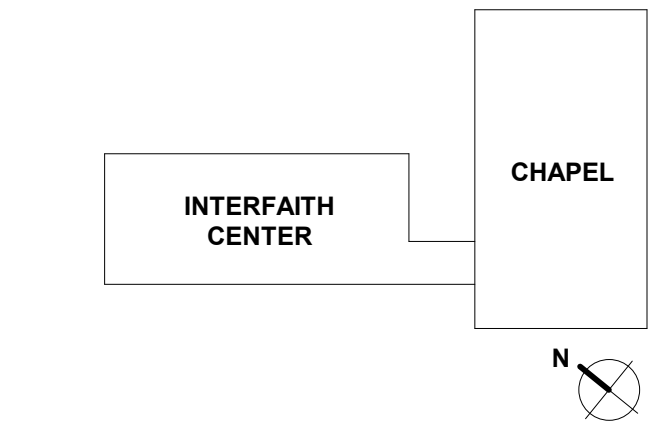
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FLOOR PLANS - LEVEL 2 - ELECTRICAL

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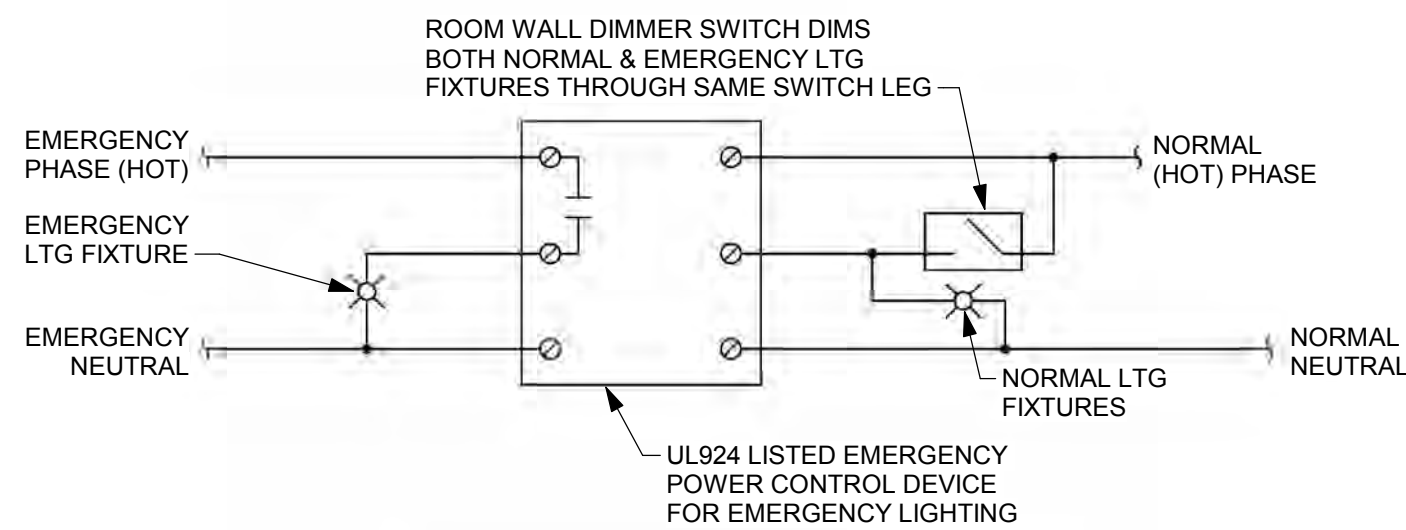
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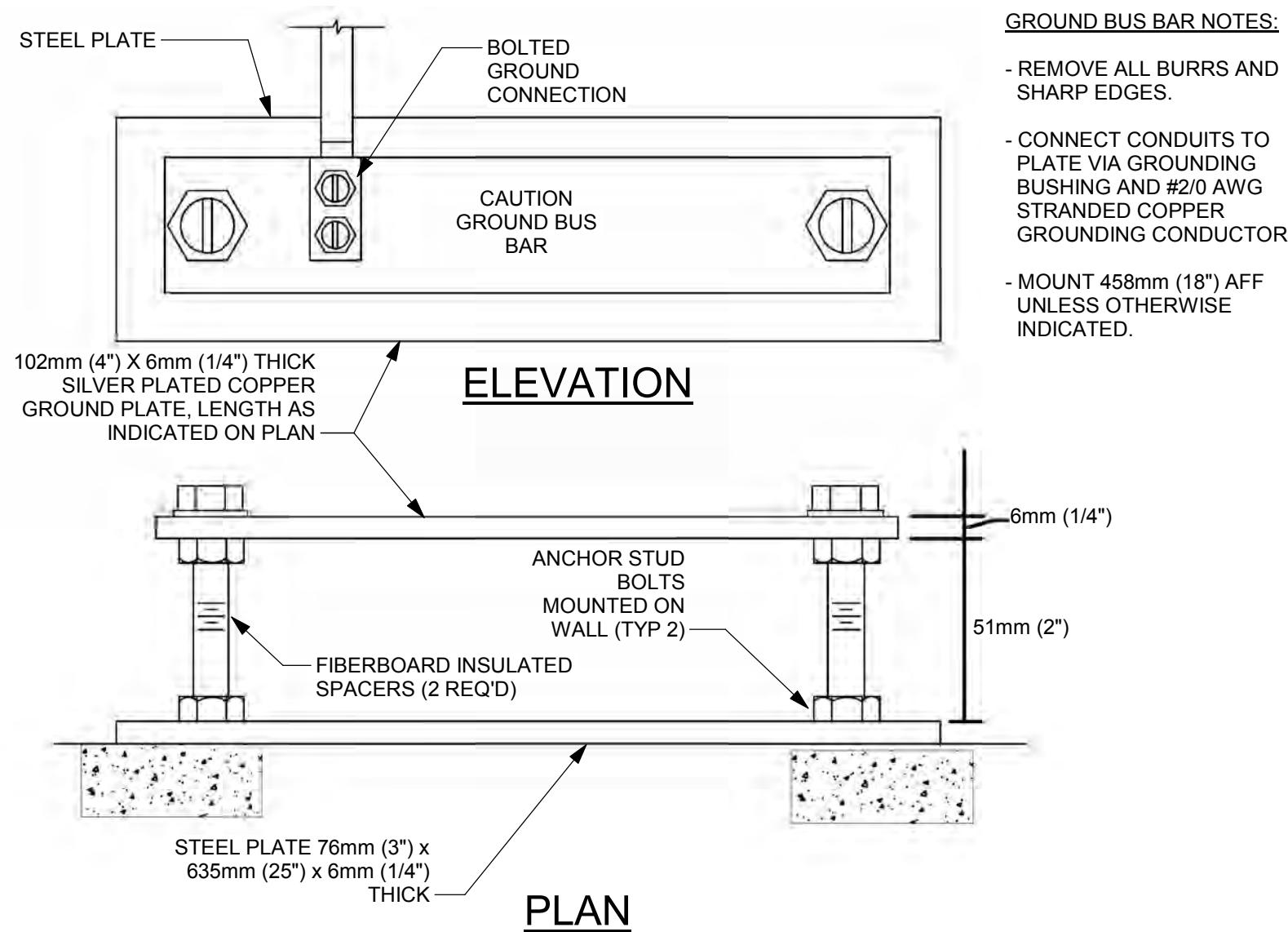
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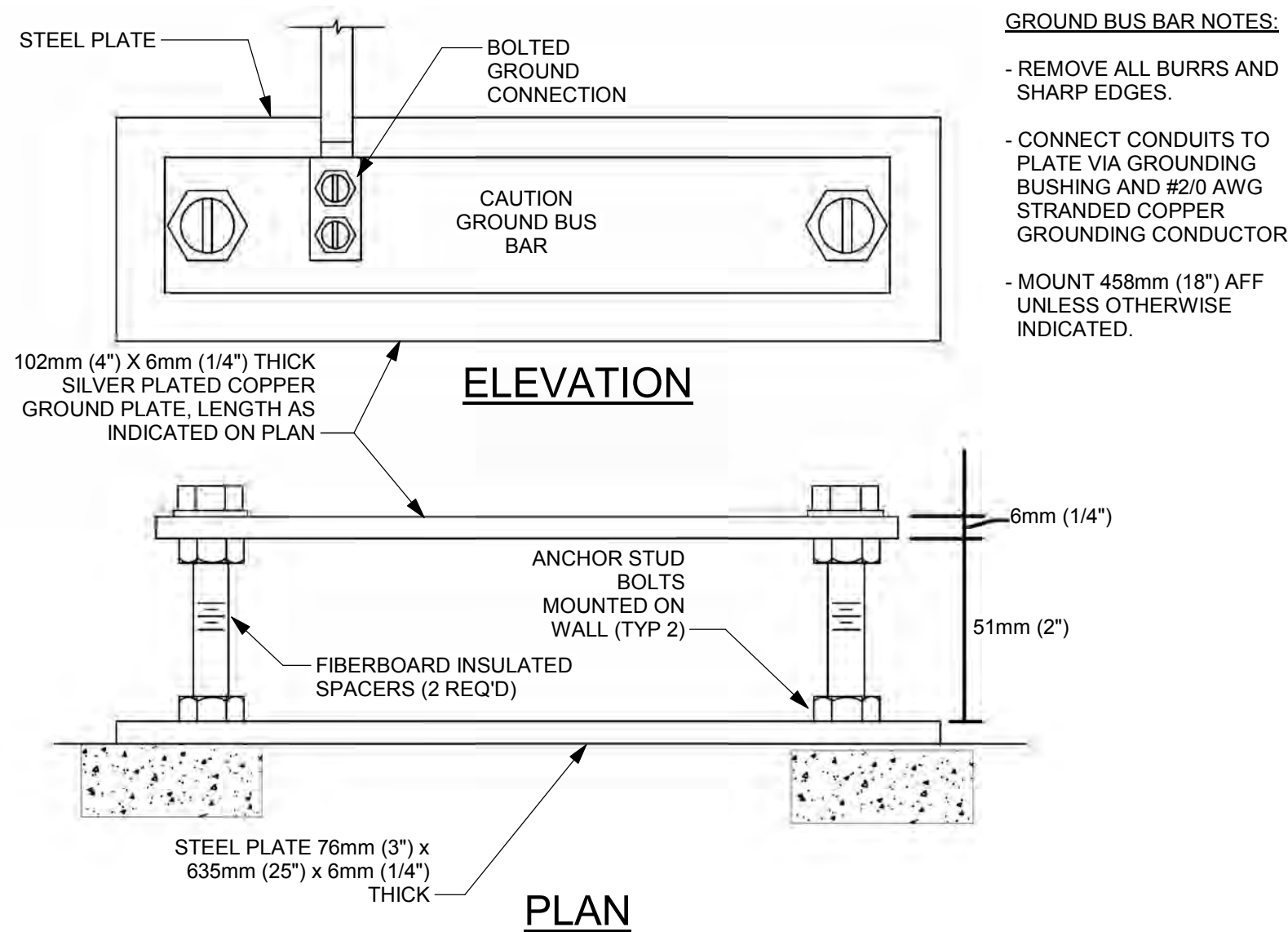


NOTE:
DURING NORMAL POWER OUTAGE, EMERGENCY FIXTURES WILL ILLUMINATE AUTOMATICALLY (FED FROM EMERGENCY POWER SOURCE) REGARDLESS OF ROOM SWITCH ON OR OFF POSITION.

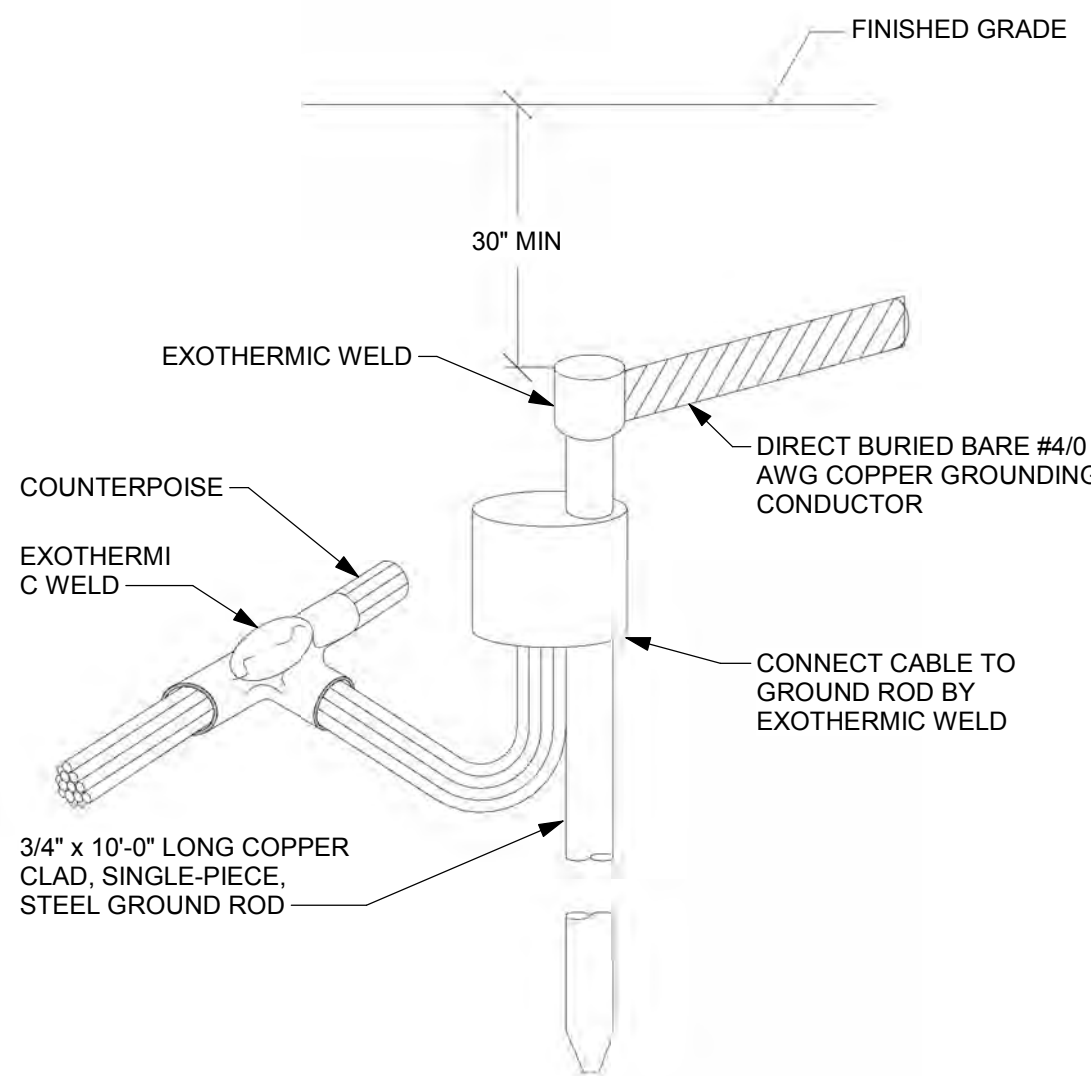
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2
E5.01 1/8" = 1'-0"



3
E5.01 3/16" = 1'-0"



4
E5.01 1/8" = 1'-0"

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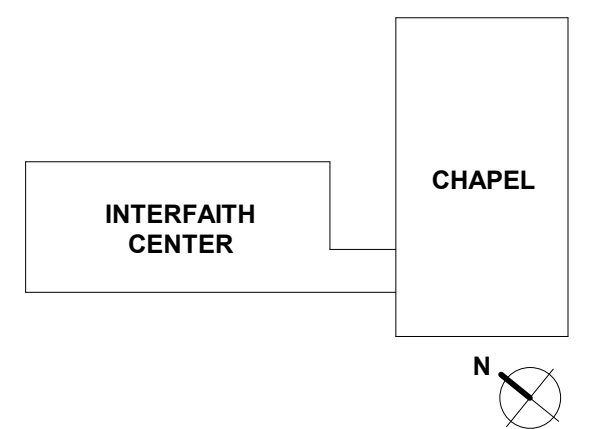
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ONE LINE DIAGRAM & SCHEDULES

DRAWING NUMBER

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GENERAL NOTES				APPLICABLE CODES AND STANDARDS				LEGEND																																										
<div>1. THESE TELECOMMUNICATIONS DRAWINGS ARE PREPARED AND COORDINATED WITH THE SCOPE OF WORK DOCUMENT AND THE SPECIFICATIONS. TOGETHER THESE DOCUMENTS FORM THE CONTRACT DOCUMENTS.</div> <div>2. THE TELECOMMUNICATIONS SYSTEMS ARE DESIGNED IN ACCORDANCE WITH THE BICSI AND TIA/EIA STANDARDS.</div> <div>3. ALL CABLE PATHWAYS ARE DESIGNED WITH A MAXIMUM 40 PERCENT FILL RATIO UNLESS OTHERWISE NOTED. FILL REQUIREMENTS MAY ALTER FROM INITIAL DESIGN DUE TO CLIENT REQUIREMENTS DURING INSTALLATION.</div> <div>4. ALL CABLE PATHWAYS SHALL BE FREE FROM PROJECTIONS AND ROUGH OR SHARP EDGES THROUGHOUT THE ENTIRE PATH. ALL POINTS OR EDGES THAT CABLING MUST PASS, AND MAY BE SUBJECT TO INJURY OR WEAR, SHALL BE ROUNDED, PADDED, OR BUSHED.</div> <div>5. THE TELECOMMUNICATIONS DRAWINGS INDICATE THE GENERAL LOCATION OF EQUIPMENT, CABLE PATHWAYS, AND OUTLETS. ALTHOUGH THE DRAWINGS DO NOT NECESSARILY DICTATE THE ACTUAL ROUTES OF CABLE TRAYS AND CONDUITS, LOCATION OF EQUIPMENT AND OUTLETS, AND OTHER SUPPORTING ITEMS, THEY SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE TO THE DESIGN IN THIS DOCUMENT. IT SHALL BE THE INSTALLING CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE INSTALLATION OF ALL TELECOMMUNICATION ITEMS WITH ALL OTHER CONTRACTORS.</div> <div>6. ALL BLOCKS, PANELS AND CABLE SHALL BE ASSIGNED, LABELED AND RECORDED BY THE INSTALLING CABLE CONTRACTOR, AND DELIVERED TO THE ENGINEER.</div> <div>7. SEE NOTES ON INDIVIDUAL DRAWINGS FOR CROSS REFERENCE TO PERTINENT DETAILS, SECTIONS, ETC. SHOWN ON OTHER DRAWINGS IN THIS DRAWING SET.</div> <div>8. SCALES NOTED ON THE TELECOMMUNICATIONS DRAWINGS ARE FOR GENERAL INFORMATION AND USED FOR REFERENCE ONLY.</div> <div>9. ALL MOUNTING HEIGHTS SHOWN ARE MEASURED FROM FINISHED FLOOR TO BOTTOM OF MOUNTED EQUIPMENT UNLESS OTHERWISE NOTED.</div> <div>10. FIRE STOP ALL STRUCTURE PENETRATIONS WITH FIRE STOPPING MATERIAL EQUAL TO OR GREATER THAN THAT OF PENETRATED STRUCTURE. INSTALL FIRE STOPPING MATERIAL AFTER COMPLETE INSTALLATION OF CABLING. USE ONLY LISTED FIRE STOPPING MATERIAL IN ACCORDANCE WITH UL, NFPA, AND OTHER AUTHORITIES HAVING JURISDICTION.</div> <div>11. TELECOMMUNICATIONS ROOMS SHALL NOT BE USED AS STORAGE SPACE BY ANY CONTRACTOR EXCLUDING THE INSTALLING CONTRACTOR FOR THE TELECOMMUNICATIONS SYSTEM. WHEN THE INSTALLATION OF A TELECOMMUNICATIONS SPACE IS COMPLETE, ALL ITEMS AND EQUIPMENT NOT SUPPORTING THE FUNCTIONS OF THAT SPACE SHALL BE REMOVED FROM THE SPACE.</div> <div>12. ALL TELECOMMUNICATIONS ROOMS WILL HAVE 3/4" x 4' x 8' FIRE RETARDANT PLYWOOD INSTALLED VERTICALLY, STARTING APPROXIMATELY 2' ABOVE THE FLOOR.</div> <div>13. THE TELECOMMUNICATIONS DRAWINGS INDICATE THE GENERAL LOCATION OF THE BACKBONE CONDUIT FOR THE TELECOM ROOMS. THE INSTALLER SHALL VERIFY THE EXACT LOCATION OF THE CONDUIT(S). CONDUITS SHALL BE POSITIONED SO THEY ENTER AND EXIT TELECOM ROOMS IN THE CORNERS AS SHOWN ON THE TELECOM ROOM DRAWINGS.</div> <div>14. NOT ALL HARDWARE FOR INSTALLATION IS IDENTIFIED/SHOWN. THE TELECOMMUNICATIONS CONTRACTOR IS RESPONSIBLE FOR ALL MOUNTING HARDWARE REQUIRED FOR A COMPLETE AND PROPERLY OPERATING INSTALLATION.</div> <div>15. NOT ALL ITEMS, COMPONENTS AND SYSTEMS SPECIFIED IN THIS DRAWING SET OR THE SPECIFICATIONS ARE DETAILED. CONTRACTOR TO PROVIDE MANUFACTURERS' SPECIFICATIONS AND DETAIL SHEETS IN THE PRECONSTRUCTION SUBMITTALS FOR SELECTION PER THE SPECIFICATIONS.</div> <div>16. THE TELECOMMUNICATIONS CONTRACTOR SHALL INSTALL COMPONENTS OR SYSTEMS PER THE MANUFACTURERS' INSTALLATION INSTRUCTIONS OR SPECIFICATIONS.</div> <div>17. ALL CABLE SHALL COMPLY WITH THE SPECIFICATIONS AND SHALL BE SUITABLE AND LISTED FOR THE ENVIRONMENT IN WHICH IT IS INSTALLED.</div> <div>18. ALL CONDUIT RUNS SHALL FOLLOW BICSI STANDARDS FOR BENDS, FILL AND JUNCTION BOX PLACEMENT. NO CONDUIT RUNS SHALL HAVE GREATER THAN 180 DEGREES OF BEND WITHOUT A PROPERLY SIZED AND PLACED PULL BOX.</div> <div>19. ALL CONDUIT RUNS AND CABLE TRAY SHOWN ARE DIAGRAMMATICAL. REPORT ANY MAJOR DEVIATION TO CONSTRUCTION MANAGER FOR APPROVAL.</div> <div>20. ALL CONDUITS FROM BELOW SHALL STUB UP 4" A.F.F.</div> <div>21. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING FINAL SYSTEMS, EQUIPMENT LAYOUT AND CONDUIT ROUTING AS SHOWN ON DRAWING WITH SITE CONDITIONS.</div> <div>22. CONTRACTOR SHALL ENSURE PROPER SEPARATION OF CLASS 1, CLASS 2, AND CLASS 3 CIRCUITS PER NEC 725-54.</div> <div>23. CONTRACTOR SHALL VERIFY THE SIZE OF ALL CONDUCTORS, CONDUIT, AND JUNCTION BOXES (40 % MAXIMUM FILL). INSTALLATION SHALL BE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE (NEC) AND ALL LOCAL CODES HAVING JURISDICTION.</div> <div>24. LOW VOLTAGE VOICE AND DATA CABLING SHALL NOT BE INSTALLED IN THE SAME CONDUIT AS 120 VAC POWER CABLES.</div> <div>25. CONTRACTOR SHALL PROMPTLY NOTIFY OWNER OR OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION OF WORK IF ANY MOUNTING LOCATIONS NOTED ON THE DRAWINGS ARE OBSTRUCTED AND/OR IF ANY CONFLICTS OR PROBLEMS ARE DISCOVERED.</div> <div>26. CONTRACTOR SHALL PROVIDE AND INSTALL EQUIPMENT AND HARDWARE IN ORDER TO MEET THE INTENT OF THE DESIGN AND TO PROVIDE OWNER WITH A COMPLETE AND FULLY OPERATIONAL CABLING SYSTEM AS SPECIFIED. QUESTIONS REGARDING THE INTENT OF THE DESIGN SHALL BE PROMPTLY BROUGHT TO THE ATTENTION OF THE ENGINEER.</div> <div>27. ANY DEVICE SHOWN ON THESE DRAWINGS THAT IS LOCATED IN AN OPEN OR HARD CEILING SPACE SHALL HAVE A SINGLE-GANG BOX WITH A CONDUIT TO THE NEAREST ACCESSIBLE CEILING UNLESS OTHERWISE NOTED.</div>				<div>ALL MATERIALS AND WORK SPECIFIED HEREIN SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF:</div> <div>1. TIA-526-7 (OFSTP-7)-2002+A1:2008, MEASUREMENT OF OPTICAL FIBER LOSS OF INSTALLED SINGLE-MODE FIBER CABLE PLANT.</div> <div>2. TIA-526-14-B-2010 (OFSTP-14), OPTICAL POWER LOSS MEASUREMENTS OF MULTIMODE FIBER CABLE PLANT.</div> <div>3. ANSI/TIA-568-C.0-2009+A1:2010+A2:2012, GENERIC TELECOMMUNICATIONS FOR CUSTOMER PREMISE.</div> <div>4. ANSI/TIA-568-C.1-2009+A1:2012, COMMERCIAL BUILDING TELECOMMUNICATIONS CABLING STANDARD.</div> <div>5. ANSI/TIA-568-C.2-2009+A1:2010, BALANCED TWISTED PAIR CABLING COMPONENTS STANDARD.</div> <div>6. ANSI/TIA-568-C.3-2009+A1:2011, OPTICAL FIBER CABLING COMPONENTS STANDARDS.</div> <div>7. ANSI/TIA-568-C.4-2011, BROADBAND COAXIAL CABLING COMPONENTS STANDARD.</div> <div>8. ANSI/TIA-569-C-2012, TELECOMMUNICATIONS PATHWAYS AND SPACES.</div> <div>9. ANSI/TIA-606-B-2012, ADMINISTRATION STANDARD FOR COMMERCIAL TELECOMMUNICATIONS INFRASTRUCTURE.</div> <div>10. ANSI/TIA-607-B-2011, GENERIC TELECOMMUNICATIONS BONDING AND GROUNDING (EARTHING) FOR CUSTOMER PREMISES.</div> <div>11. ANSI/TIA-758-B-2012, CUSTOMER-OWNER OUTSIDE PLANT TELECOMMUNICATIONS INFRASTRUCTURE STANDARD.</div> <div>12. ANSI/TIA-862-A, BUILDING AUTOMATION SYSTEMS CABLING STANDARD.</div> <div>13. ANSI/TIA-942-A, TELECOMMUNICATIONS INFRASTRUCTURE STANDARDS FOR DATA CENTERS.</div> <div>14. ANSI/TIA-1005, TELECOMMUNICATIONS INFRASTRUCTURE FOR INDUSTRIAL PREMISES.</div> <div>15. ANSI/TIA-1179, HEALTHCARE FACILITY TELECOMMUNICATIONS INFRASTRUCTURE STANDARD.</div> <div>16. ISO/IEC 11801, GENERIC CABLING FOR CUSTOMER PREMISES.</div> <div>17. IEEE 802.3af, POWER OVER ETHERNET (PoE) STANDARD.</div> <div>18. IEEE 802.3at, POWER OVER ETHERNET + (PLUS).</div> <div>19. IEEE 802.3an, PHYSICAL LAYER AND MANAGEMENT PARAMETERS FOR 10 Gbps OPERATION TYPE 10GBASE-T.</div> <div>20. IEEE 802.3ba, MEDIA ACCESS CONTROL PARAMETERS, PHYSICAL LAYERS AND MANAGEMENT PARAMETERS FOR 40 Gbps AND 100 Gbps OPERATION.</div> <div>21. BUILDING INDUSTRY CONSULTING SERVICES INTERNATIONAL (BICSI) TELECOMMUNICATIONS DISTRIBUTION METHODS MANUAL.</div> <div>22. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION.</div> <div>23. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70 - NATIONAL ELECTRICAL CODE.</div> <div>24. UNDERWRITERS LABORATORY (UL) OR EQUIVALENT.</div>				<div>CABLING:</div> <div>▲_# INSTALL (#) CATEGORY 6 CABLES FOR DATA AND TERMINATE WITH CATEGORY 6 JACKS, WHERE # REPRESENTS THE QUANTITY OF CABLES. AT THE DEVICE LOCATION, INSTALL IN A SINGLE-GANG FACEPLATE MOUNTED AT 18" AFF (UON). IN THE TR, TERMINATE CABLES ON RACK-MOUNTED CATEGORY 6 PATCH PANELS.</div> <div>▲_{AP} INSTALL TWO (2) CATEGORY 6A CABLES AND TERMINATE WITH CATEGORY 6A JACKS FOR A WIRELESS ACCESS POINT. INSTALL JACKS IN A BISCUIT-TYPE BOX WITH 20' OF CABLE COILED. IN THE TR, TERMINATE CABLES ON RACK-MOUNTED CATEGORY 6A PATCH PANELS.</div> <div>▲_{SEC} INSTALL ONE (1) CATEGORY 6 CABLE AND TERMINATE WITH A CATEGORY 6 JACK FOR A SECURITY CAMERA. INSTALL JACK IN A BISCUIT-TYPE BOX. IN THE TR, TERMINATE CABLE ON RACK-MOUNTED CATEGORY 6 PATCH PANELS.</div> <div>▲_D INSTALL ONE (1) CATEGORY 6 CABLE AND TERMINATE WITH A CATEGORY 6 JACK FOR A FLAT SCREEN DISPLAY. INSTALL JACK IN A SINGLE-GANG FACEPLATE ASSOCIATED WITH THE LOCATION OF THE DISPLAY (SEE AV DRAWINGS FOR DETAILS). IN THE TR, TERMINATE CABLE ON A RACK-MOUNTED CATEGORY 6 PATCH PANEL.</div> <div>▲_E INSTALL ONE (1) CATEGORY 6 CABLE FOR AN ELEVATOR PHONE AND LEAVE 20' OF UTERMINATED CABLE COILED IN ELEVATOR MACHINE ROOM. IN TR, TERMINATE CABLE ON RACK-MOUNTED CATEGORY 6 PATCH PANELS.</div> <div>▲_{ET} INSTALL ONE (1) CATEGORY 6 CABLE AND TERMINATE WITH A CATEGORY 6 JACK FOR AN EMERGENCY TELEPHONE. INSTALL JACK IN A BISCUIT-TYPE BOX COILED IN A TELEPHONE FLUSH MOUNTING SLEEVE MOUNTED AT 42" AFF (UON). IN THE TR, TERMINATE THE CABLE ON A RACK-MOUNTED CATEGORY 6 PATCH PANEL.</div> <div>□ INDICATES CABLES SHALL BE INSTALLED IN A FLOORBOX.</div> <div>○ INDICATES CABLES SHALL BE INSTALLED IN THE CEILING.</div> <div>AUDIO VISUAL:</div> <div>AV^I DIGITAL TRANSMITTER - INTERFACE POINT FOR HDMI, COMPUTER AUDIO AND COMPUTER VIDEO</div> <div>AV^{I2} PASSIVE CABLE CONNECTION - INTERFACE POINT FOR HDMI, COMPUTER AUDIO AND COMPUTER VIDEO</div> <div>AV^C WALL-MOUNTED AV CONTROL PANEL</div> <div>AV^{D##} DISPLAY, WHERE ## IS THE DIAGONAL SCREEN SIZE IN INCHES.</div> <div>AV^{AL} ASSISTED LISTENING TRANSMITTER</div> <div>AV^{SPKR1} COLUMN-ARRAY LOUDSPEAKER</div> <div>Ⓢ CEILING SPEAKER</div> <div>SECURITY:</div> <div>W_P WALL-MOUNTED PROXIMITY CARD READER</div> <div>M_B DOOR POSITION SWITCH</div>																																										
ABBREVIATIONS				<table><tr><td>AFF</td><td>ABOVE FINISHED FLOOR</td></tr><tr><td>ANSI</td><td>AMERICAN NATIONAL STANDARDS INSTITUTE</td></tr><tr><td>ASME</td><td>AMERICAN SOCIETY OF MECHANICAL ENGINEERS</td></tr><tr><td>ASTM</td><td>AMERICAN SOCIETY FOR TESTING MATERIALS</td></tr><tr><td>BICSI</td><td>BUILDING INDUSTRY CONSULTING SERVICES INTERNATIONAL</td></tr><tr><td>EIA</td><td>ELECTRONICS INDUSTRY ASSOCIATION</td></tr><tr><td>FCC</td><td>FEDERAL COMMUNICATIONS COMMISSION</td></tr><tr><td>IEEE</td><td>INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS</td></tr><tr><td>ISO</td><td>INTERNATIONAL STANDARDS ORGANIZATION</td></tr><tr><td>NEC</td><td>NATIONAL ELECTRICAL CODE</td></tr><tr><td>NEMA</td><td>NATIONAL ELECTRICAL MANUFACTURERS' ASSOCIATION</td></tr><tr><td>NESC</td><td>NATIONAL ELECTRICAL SAFETY CODE</td></tr><tr><td>NFPA</td><td>NATIONAL FIRE PROTECTION ASSOCIATION</td></tr><tr><td>OSHA</td><td>OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION</td></tr><tr><td>POE</td><td>POWER OVER ETHERNET</td></tr><tr><td>RUS</td><td>RURAL UTILITY SERVICE (FORMERLY REA)</td></tr><tr><td>SMPTE</td><td>SOCIETY OF MOTION PICTURE AND TELEVISION ENGINEERS</td></tr><tr><td>TIA</td><td>TELECOMMUNICATIONS INDUSTRY ASSOCIATION</td></tr><tr><td>UL</td><td>UNDERWRITER'S LABORATORIES, INC.</td></tr><tr><td>UON</td><td>UNLESS OTHERWISE NOTED</td></tr></table>							AFF	ABOVE FINISHED FLOOR	ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	BICSI	BUILDING INDUSTRY CONSULTING SERVICES INTERNATIONAL	EIA	ELECTRONICS INDUSTRY ASSOCIATION	FCC	FEDERAL COMMUNICATIONS COMMISSION	IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS	ISO	INTERNATIONAL STANDARDS ORGANIZATION	NEC	NATIONAL ELECTRICAL CODE	NEMA	NATIONAL ELECTRICAL MANUFACTURERS' ASSOCIATION	NESC	NATIONAL ELECTRICAL SAFETY CODE	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	POE	POWER OVER ETHERNET	RUS	RURAL UTILITY SERVICE (FORMERLY REA)	SMPTE	SOCIETY OF MOTION PICTURE AND TELEVISION ENGINEERS	TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION	UL	UNDERWRITER'S LABORATORIES, INC.	UON	UNLESS OTHERWISE NOTED
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CONVENTIONS				<div>DETAIL DESIGNATION NUMBER DENOTES DETAIL IDENTIFICATION</div> <div>1</div> <div>T4.00</div> <div>INDICATES DRAWING NUMBER WHERE DETAIL IS DRAWN</div>																																														

PROJECT INFORMATION

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REVISIONS

REV. #	DESCRIPTION	DATE

KEY PLAN

INTERFAITH CENTER

CHAPEL

N

AYERS SAINT GROSS

ARCHITECTS + PLANNERS

NOT FOR CONSTRUCTION

DRAWING INFORMATION

ISSUE DATE:	04/28/17
SCALE:	1/4" = 1'-0"
JOB NO.:	21641.00
DRAWN BY:	JVS

PROJECT DESIGN PHASE

50% CONSTRUCTION DOCUMENTS

DRAWING NAME

TECHNOLOGY SYSTEMS NOTES, SYMBOLS, AND ABBREVAIONS

DRAWING NUMBER

T0.10

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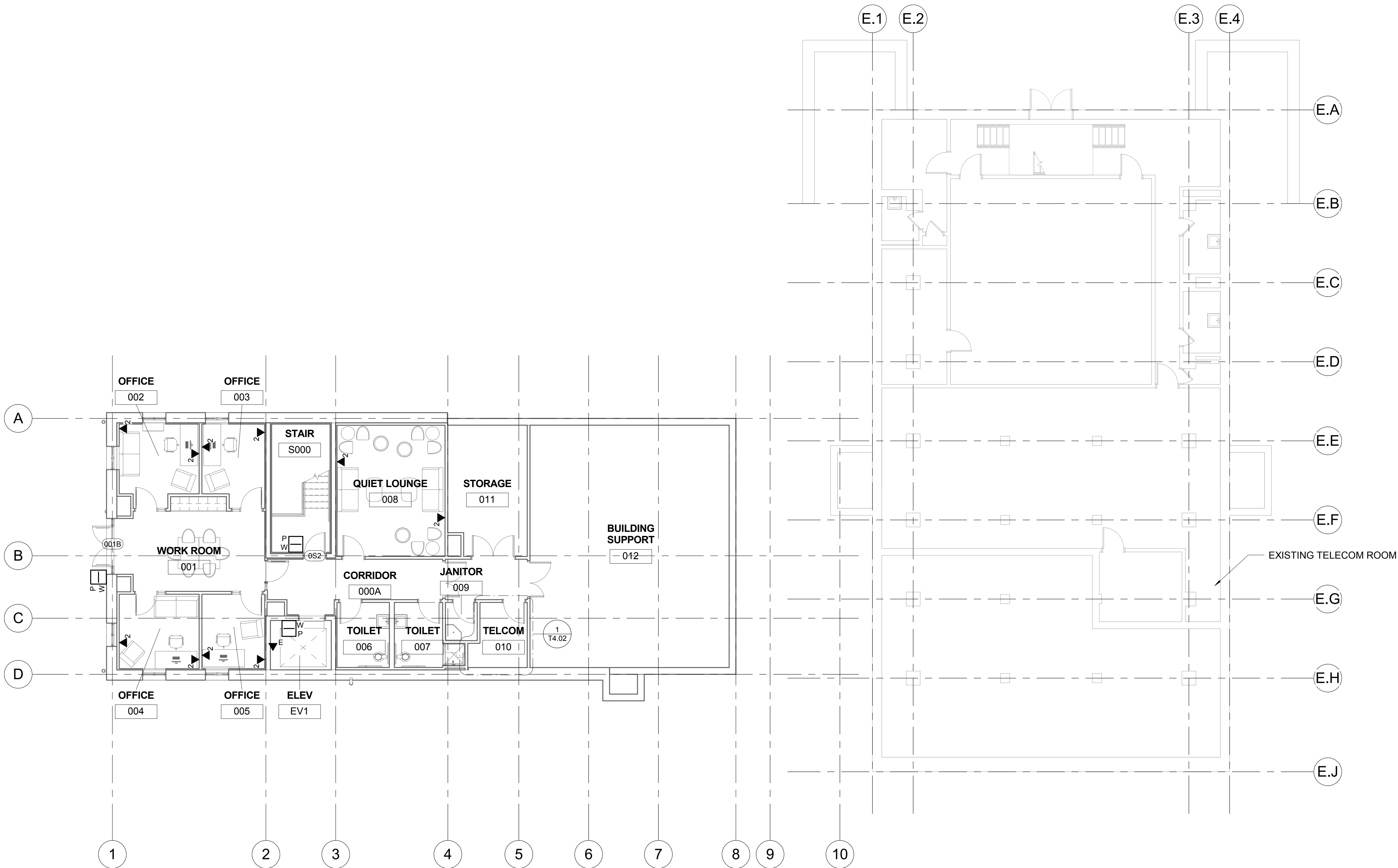
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STAPLE EDGE

STAPLE EDGE

STAPLE EDGE



① -03 LOWER LEVEL
1/8" = 1'-0"

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—college—

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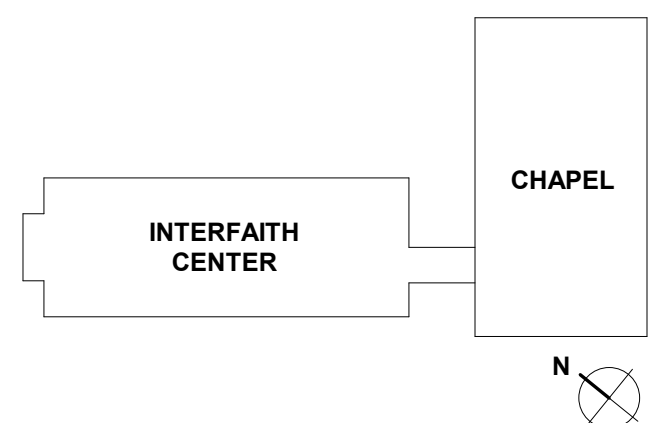
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DOCUMENTS**

DRAWING NAME

**TECHNOLOGY SYSTEMS
FLOOR PLAN - LOWER LEVEL**

DRAWING NUMBER

T2.00

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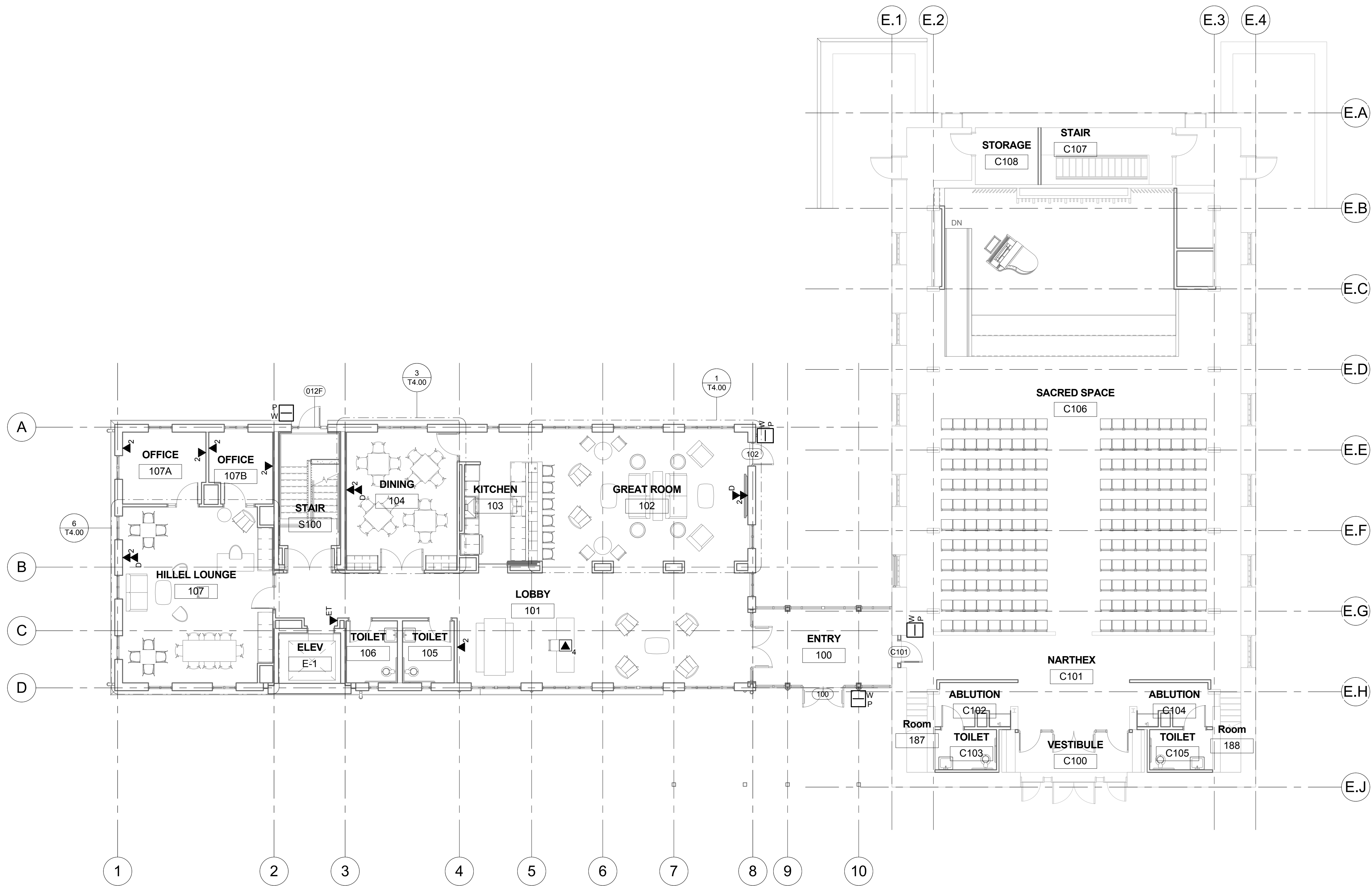
STAPLE EDGE

STAPLE EDGE

STAPLE EDGE

GENERAL NOTES:

1. ALL CABLING ON THIS SHEET SHALL BE TERMINATED IN THE LOWER LEVEL TELECOM ROOM.
2. SEE T4.00 FOR ADDITIONAL AUDIO VISUAL SYSTEM REQUIREMENTS.
3. PROVIDE TWO (2) SHURE QLXD14/SM35 WIRELESS MICROPHONE SYSTEMS FOR INTEGRATION BY CONTRACTOR WITH EXISTING CHAPEL AUDIO SYSTEM.



1 00 GROUND LEVEL
1/8" = 1'-0"

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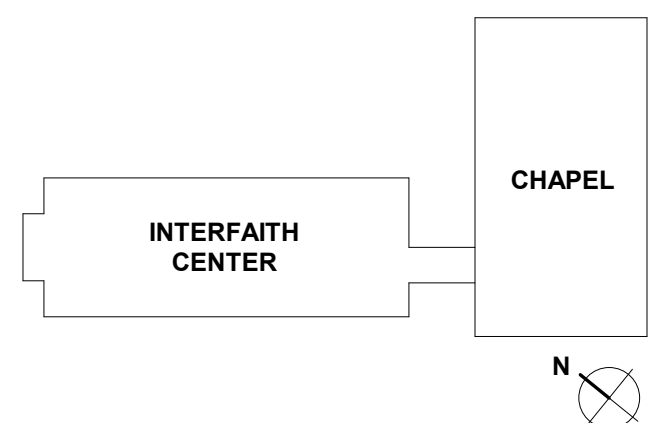
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ISSUE DATE:	04/28/17
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JOB NO.:	21641.00
DRAWN BY:	JVS

PROJECT DESIGN PHASE

**50% CONSTRUCTION
DOCUMENTS**

DRAWING NAME

**TECHNOLOGY SYSTEMS
FLOOR PLAN - LEVEL 1**

DRAWING NUMBER

T2.01

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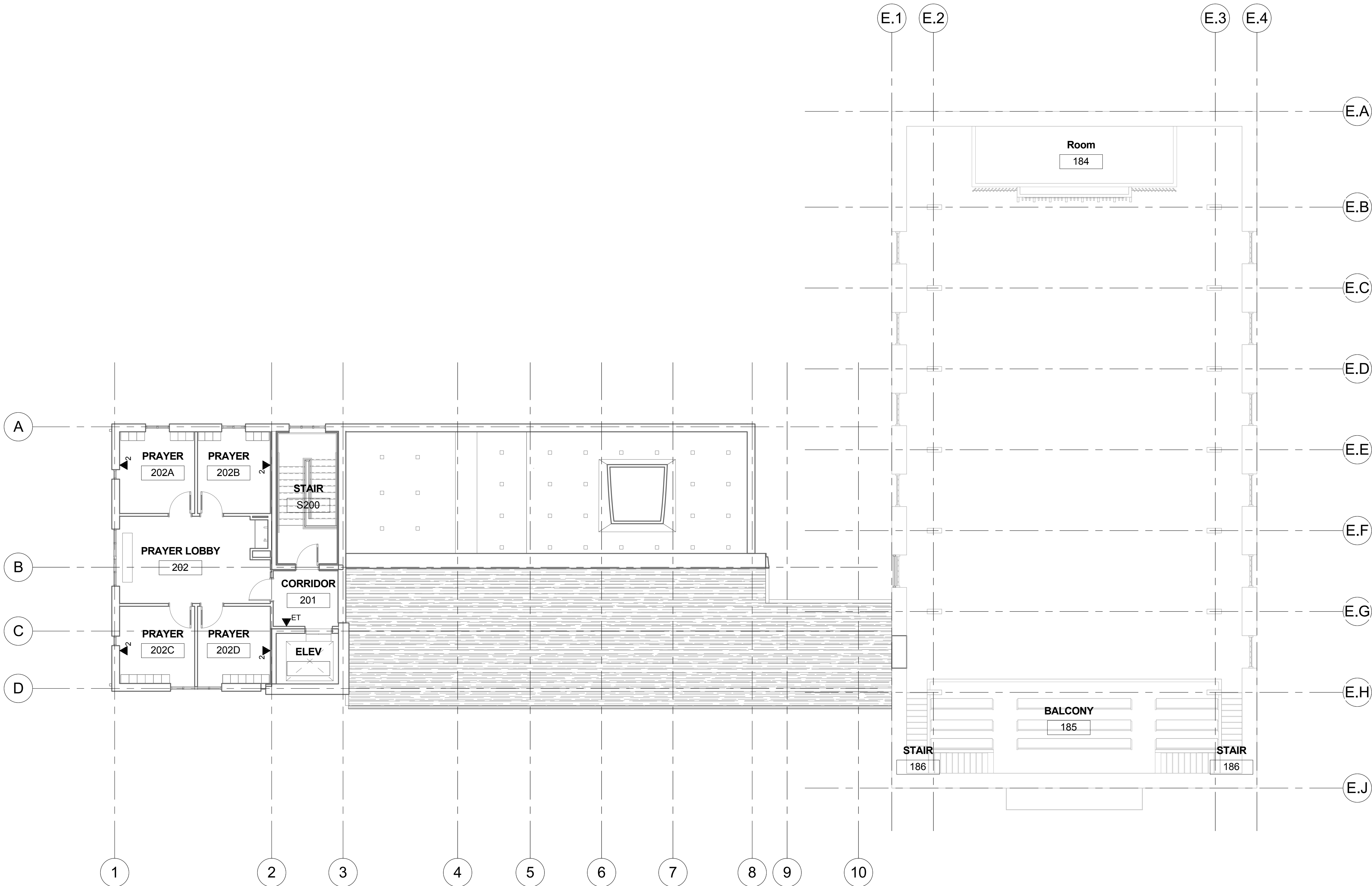
STAPLE EDGE

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STAPLE EDGE

GENERAL NOTES:

- ALL CABLING ON THIS SHEET SHALL BE TERMINATED IN THE LOWER LEVEL TELECOM ROOM.
- SEE T4.00 FOR ADDITIONAL AUDIO VISUAL SYSTEM REQUIREMENTS.



1 02 LEVEL 2
1/8" = 1'-0"

PROJECT INFORMATION

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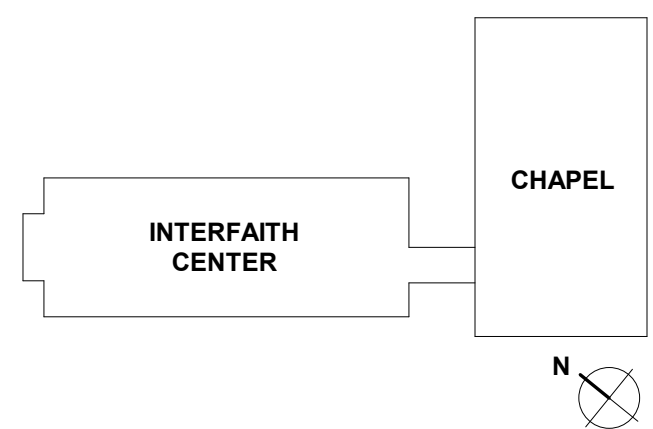
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DRAWING NAME

TECHNOLOGY SYSTEMS
FLOOR PLAN - LEVEL 2

DRAWING NUMBER

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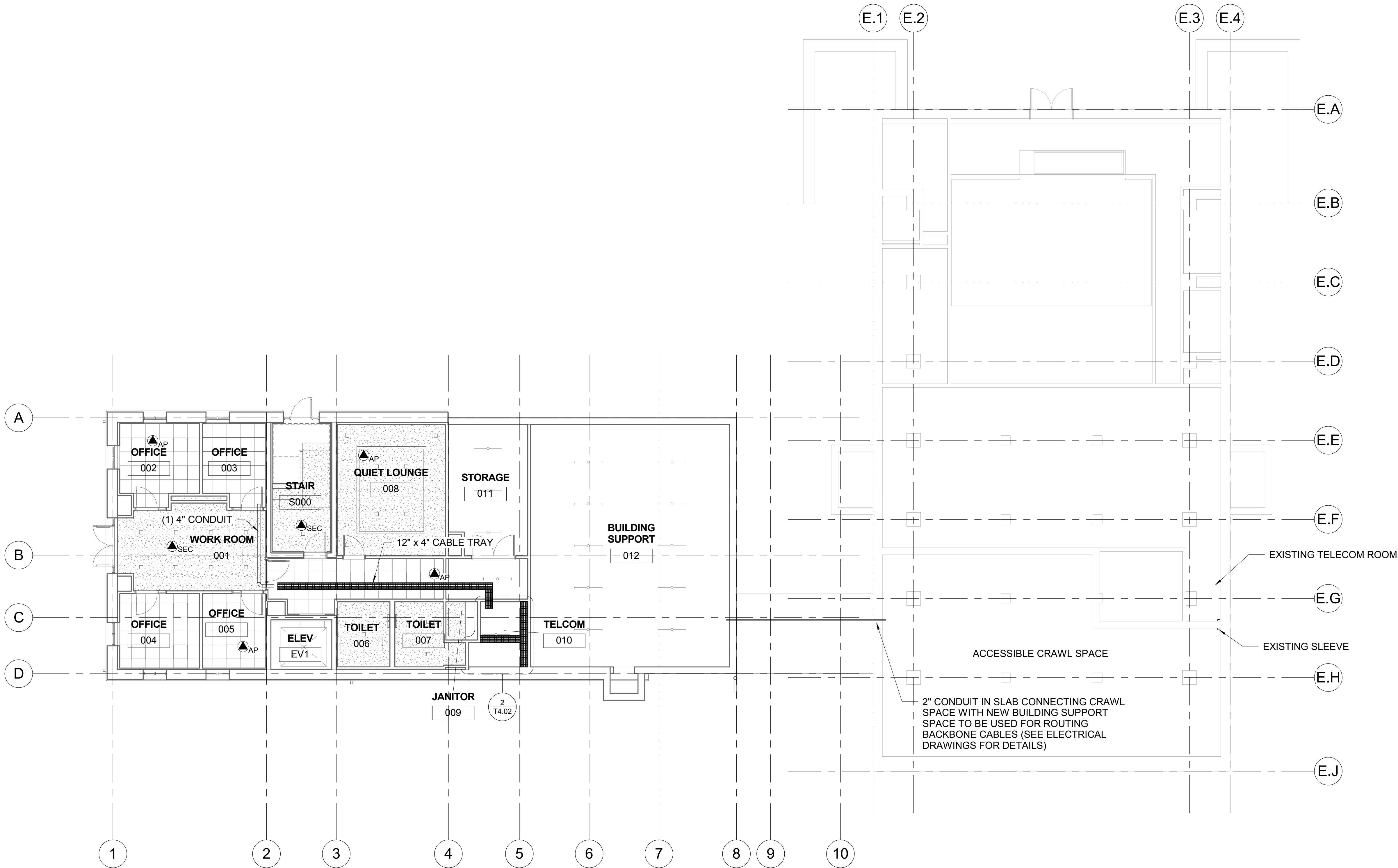
STAPLE EDGE

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STAPLE EDGE

GENERAL NOTES:

1. PRIOR TO INSTALLING ANY CABLES OR ASSOCIATED PATHWAYS FOR WIRELESS ACCESS POINTS, CONTRACTOR SHALL REQUEST A HEAT MAP SURVEY FROM SU DOIT TO CONFIRM EXACT LOCATIONS OF WIRELESS ACCESS POINTS.



① -03 LOWER LEVEL
1/8" = 1'-0"

PROJECT INFORMATION

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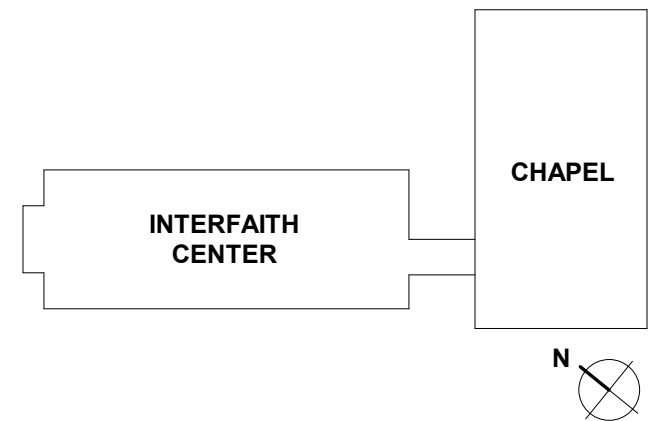
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REFLECTED CEILING PLAN -
LOWER LEVEL**

DRAWING NUMBER
T3.00

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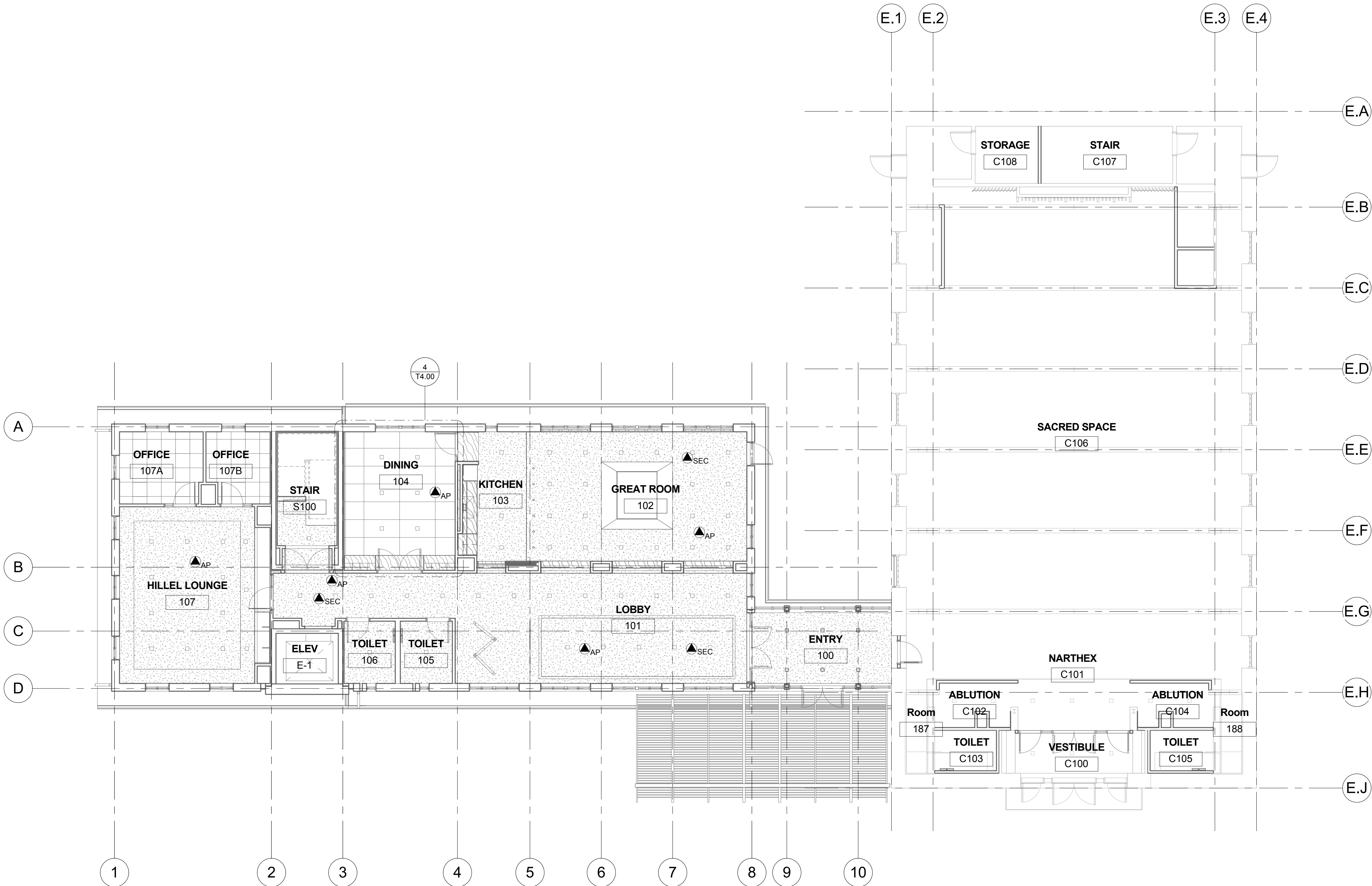
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STAPLE EDGE

GENERAL NOTES:

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① 00 GROUND LEVEL
1/8" = 1'-0"

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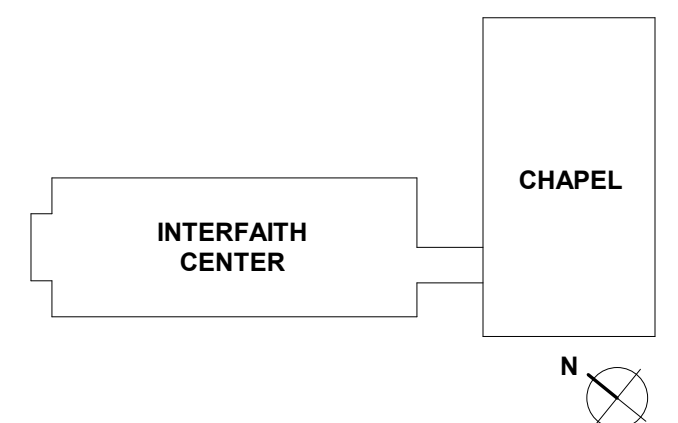
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PROJECT DESIGN PHASE
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DRAWING NAME
**TECHNOLOGY SYSTEMS
REFLECTED CEILING PLAN -
LEVEL 1**

DRAWING NUMBER
T3.01

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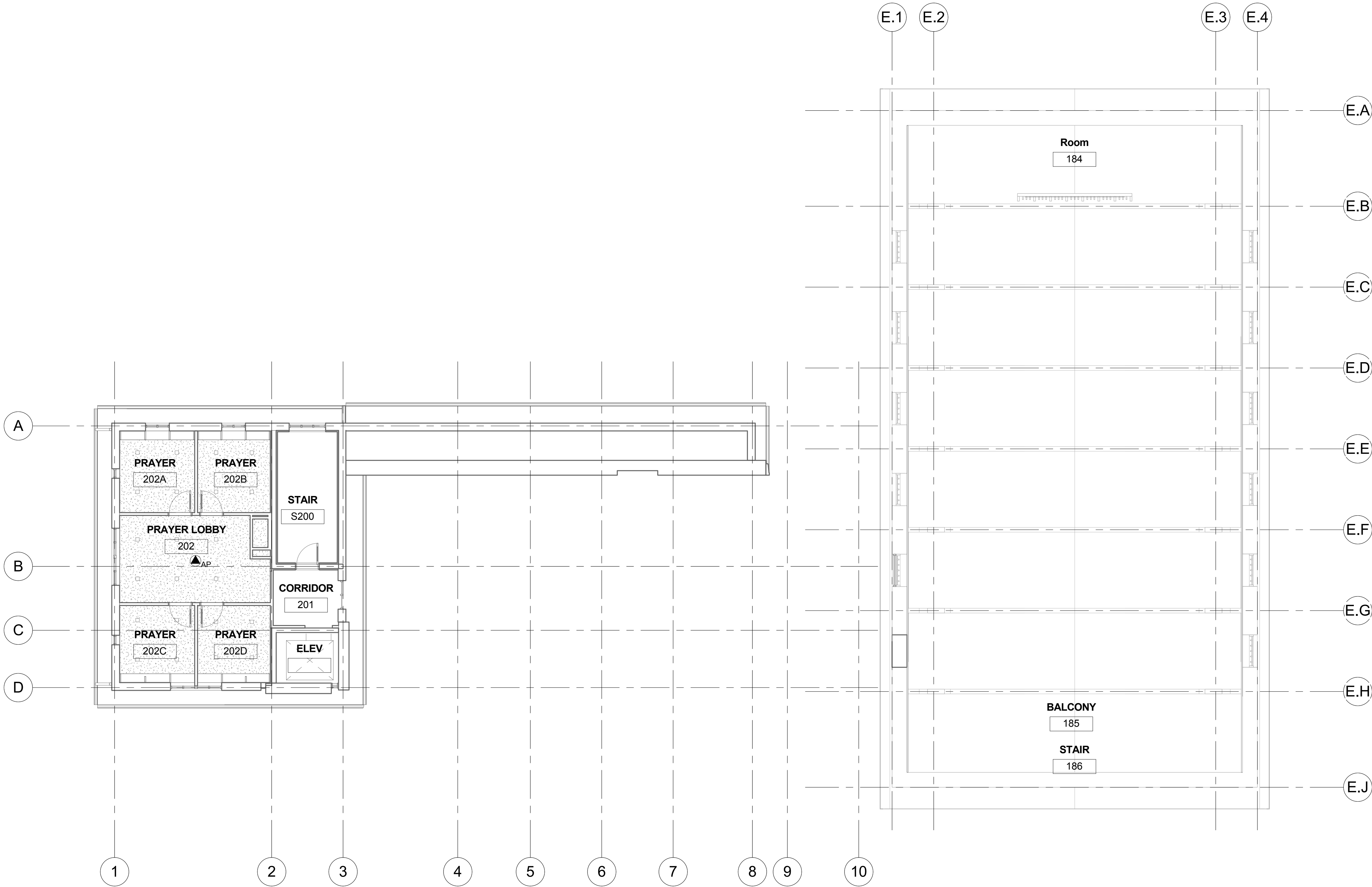
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1 02 LEVEL 2
1/8" = 1'-0"

PROJECT INFORMATION



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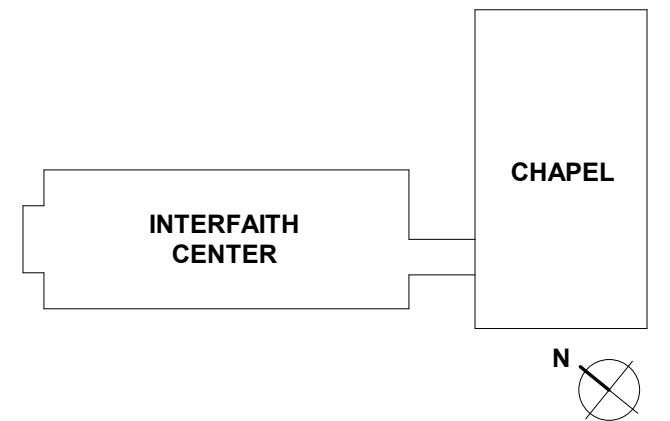
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PROJECT DESIGN PHASE
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**TECHNOLOGY SYSTEMS
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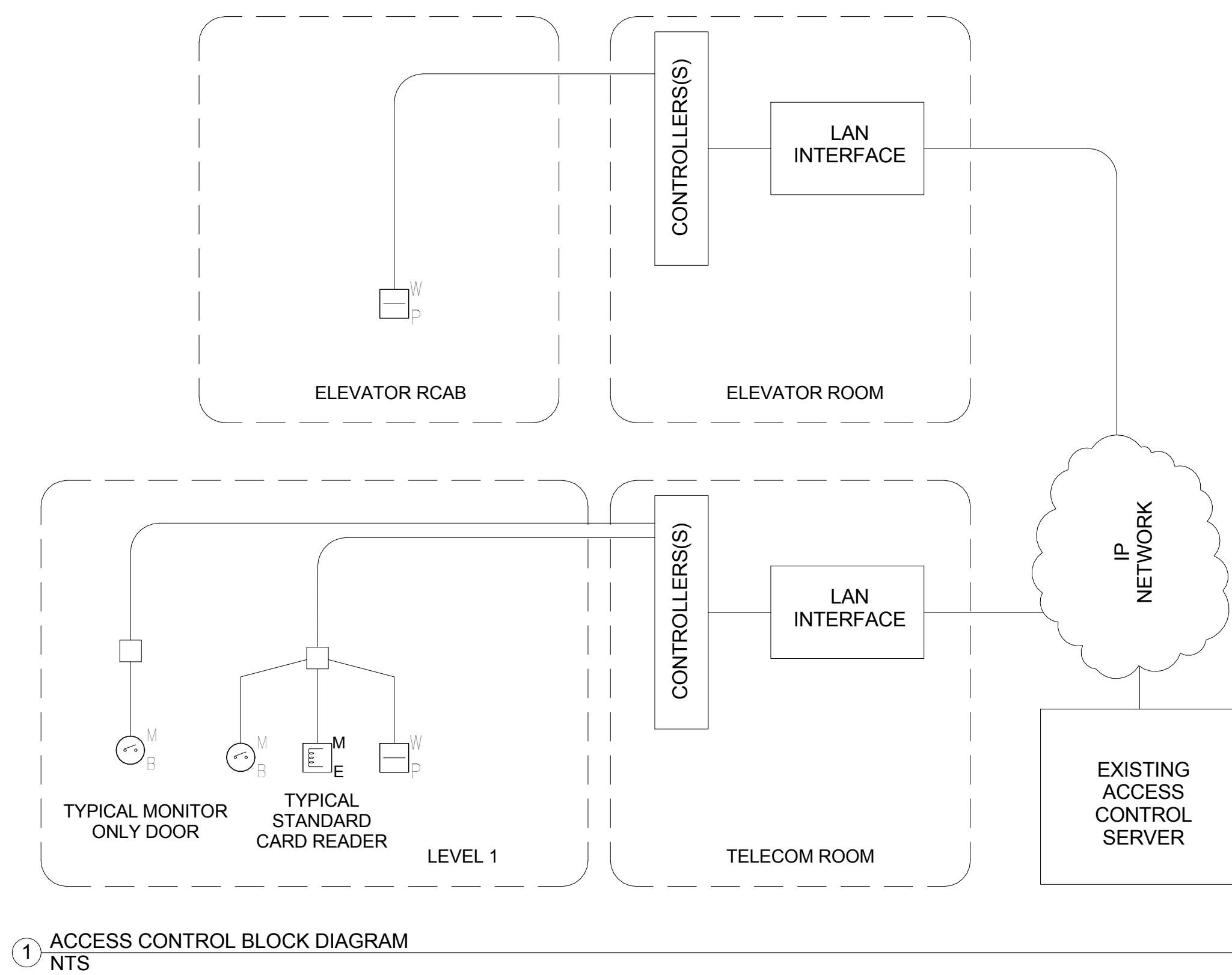
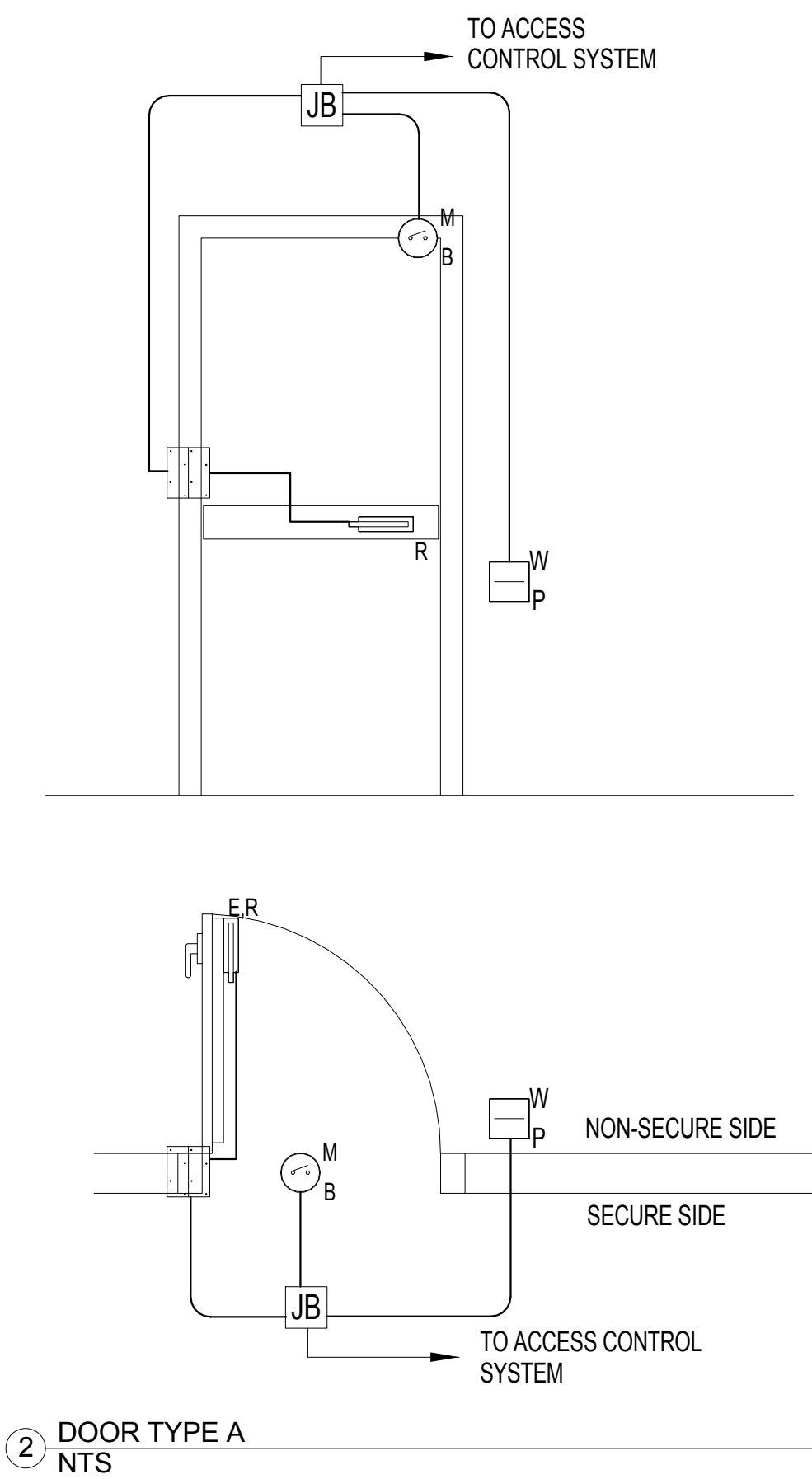
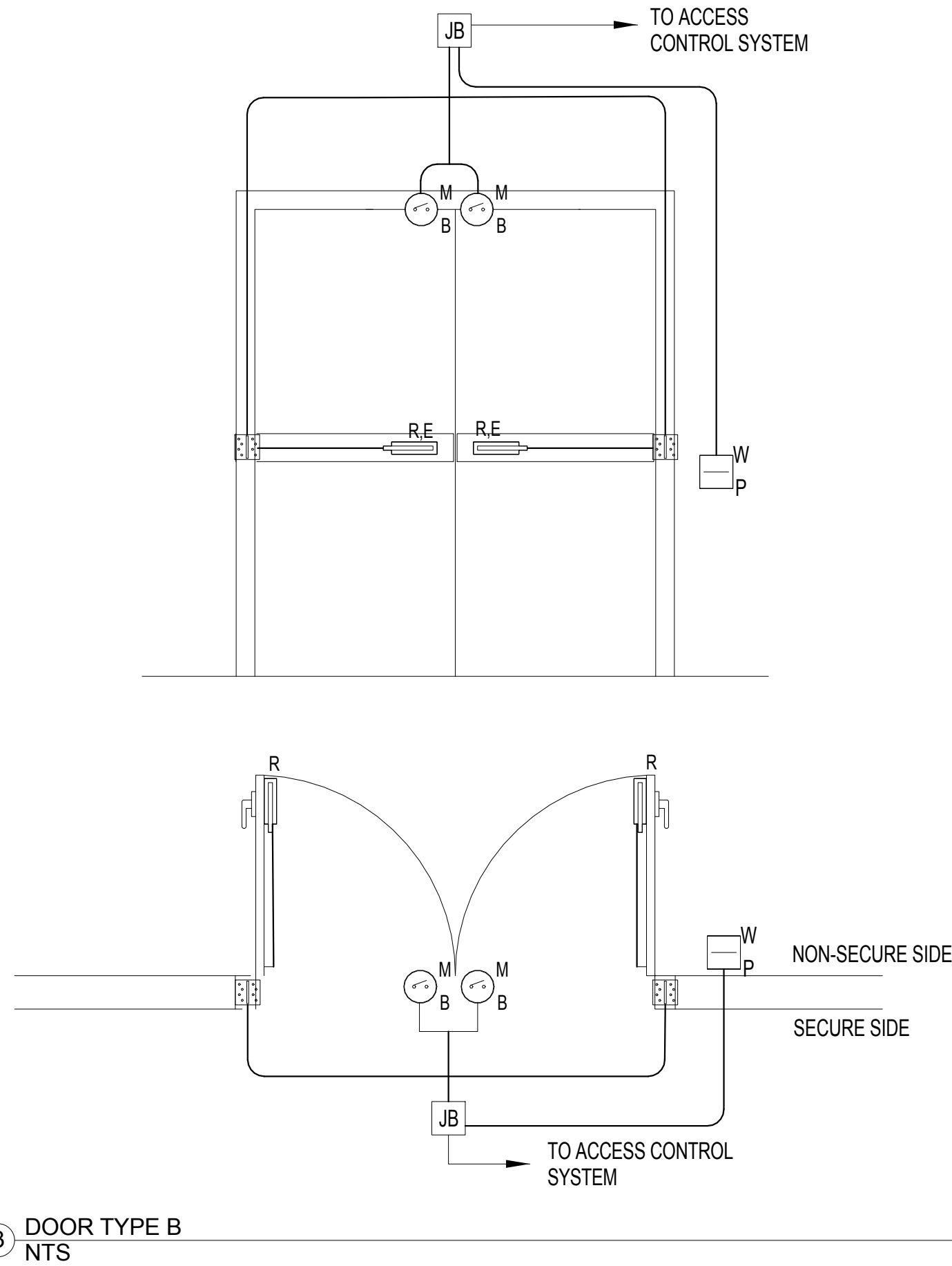
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STAPLE EDGE

STAPLE EDGE

STAPLE EDGE

SECURITY DOOR SCHEDULE	
DOOR NO.	DOOR TYPE
0S2	A
001B	B
012F	A
100	B
102	A
C101	A
EV1	ELEVATOR



PROJECT INFORMATION

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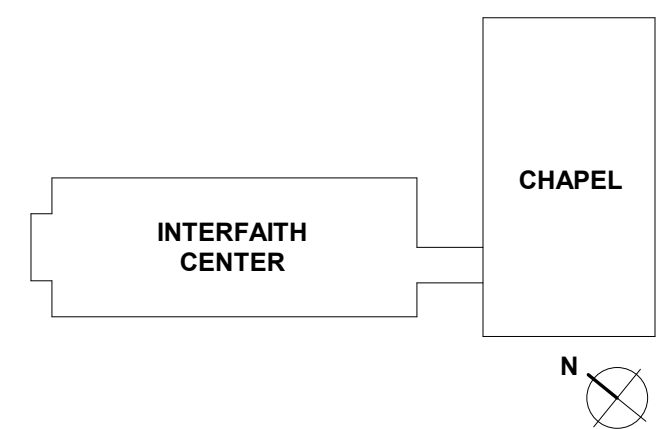
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DRAWN BY:	JVS

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DOCUMENTS

DRAWING NAME

TECHNOLOGY SYSTEMS -
SECURITY DETAILS

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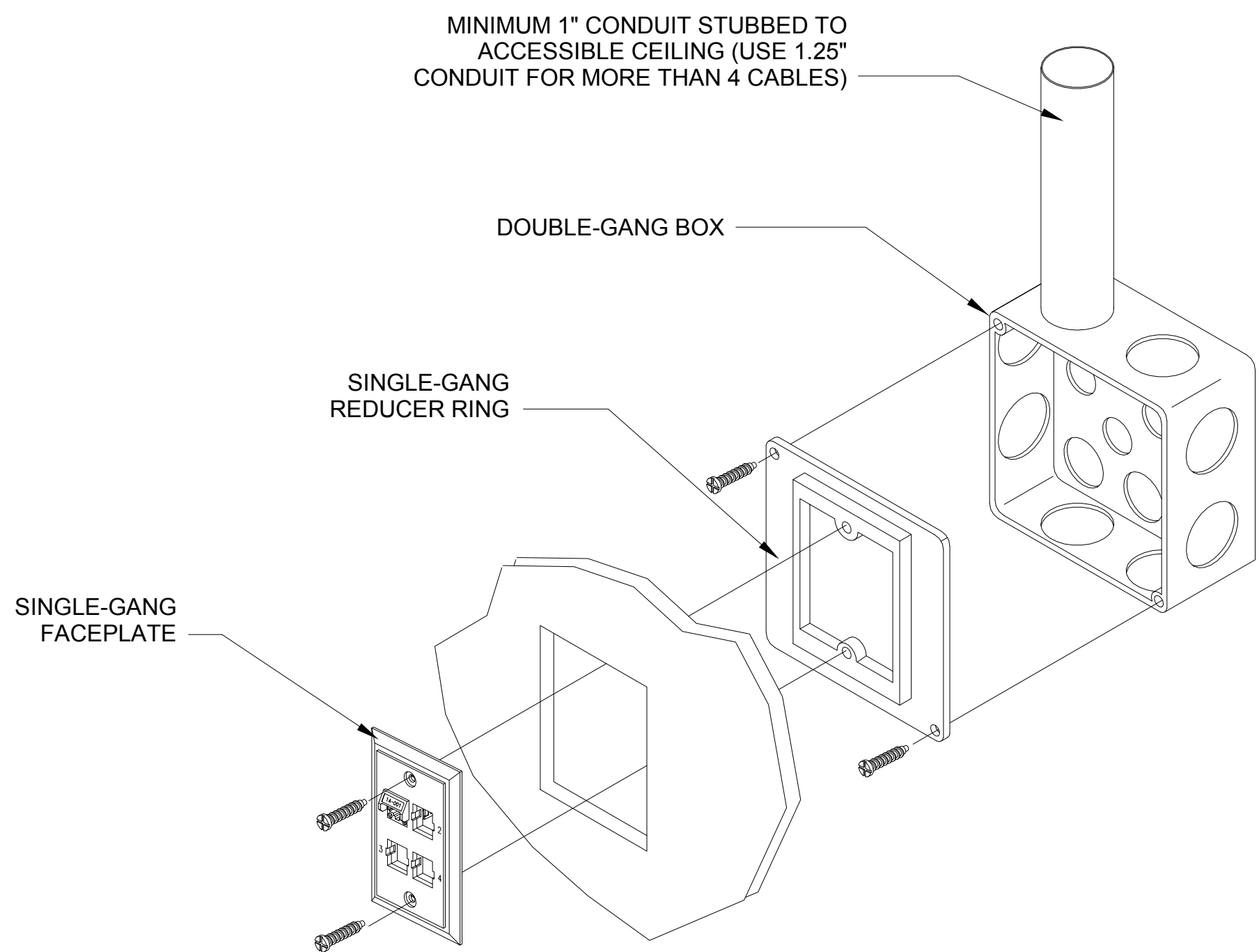
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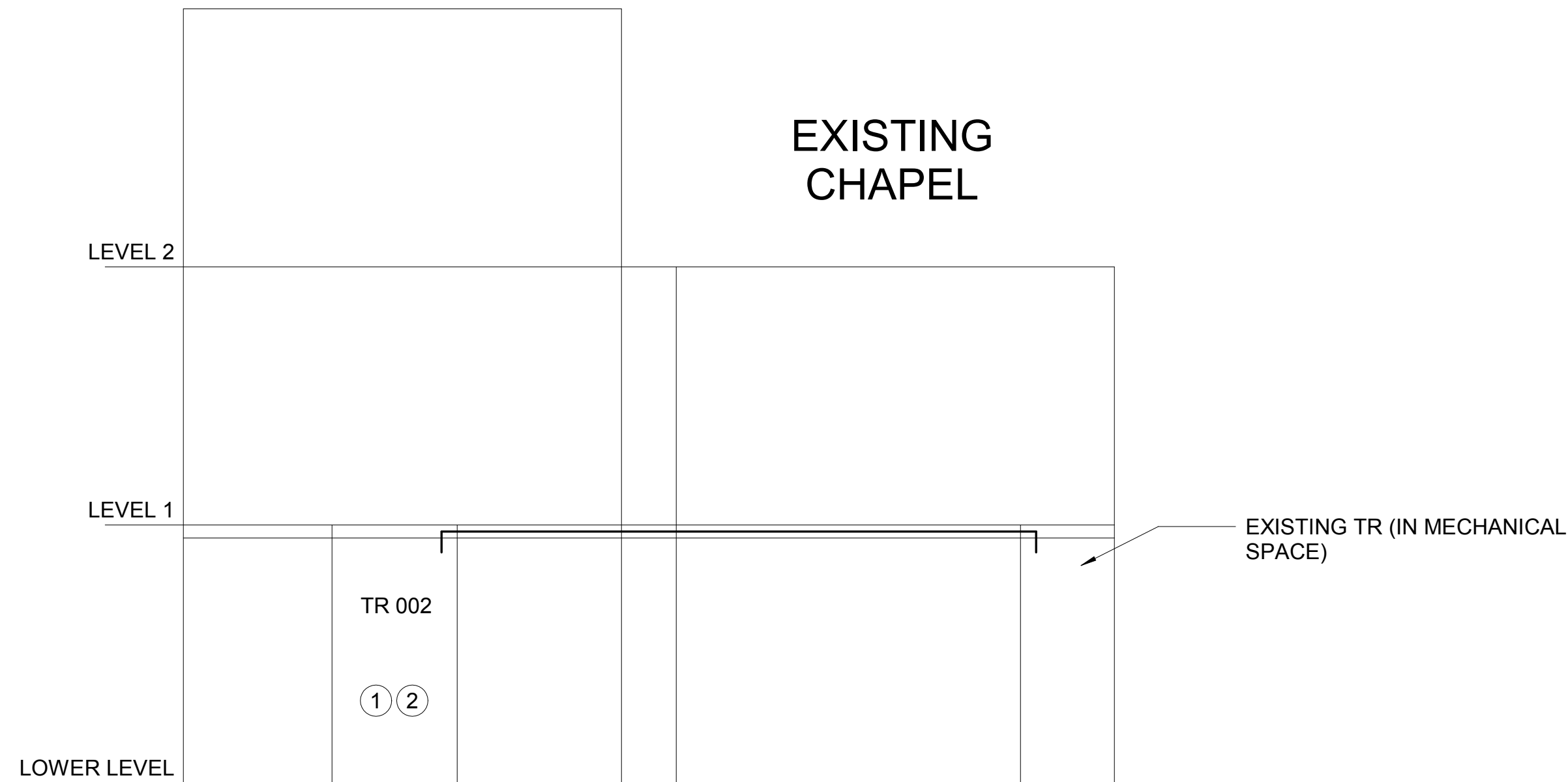
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3 TYPICAL BOX AND CONDUIT DETAIL
NTS

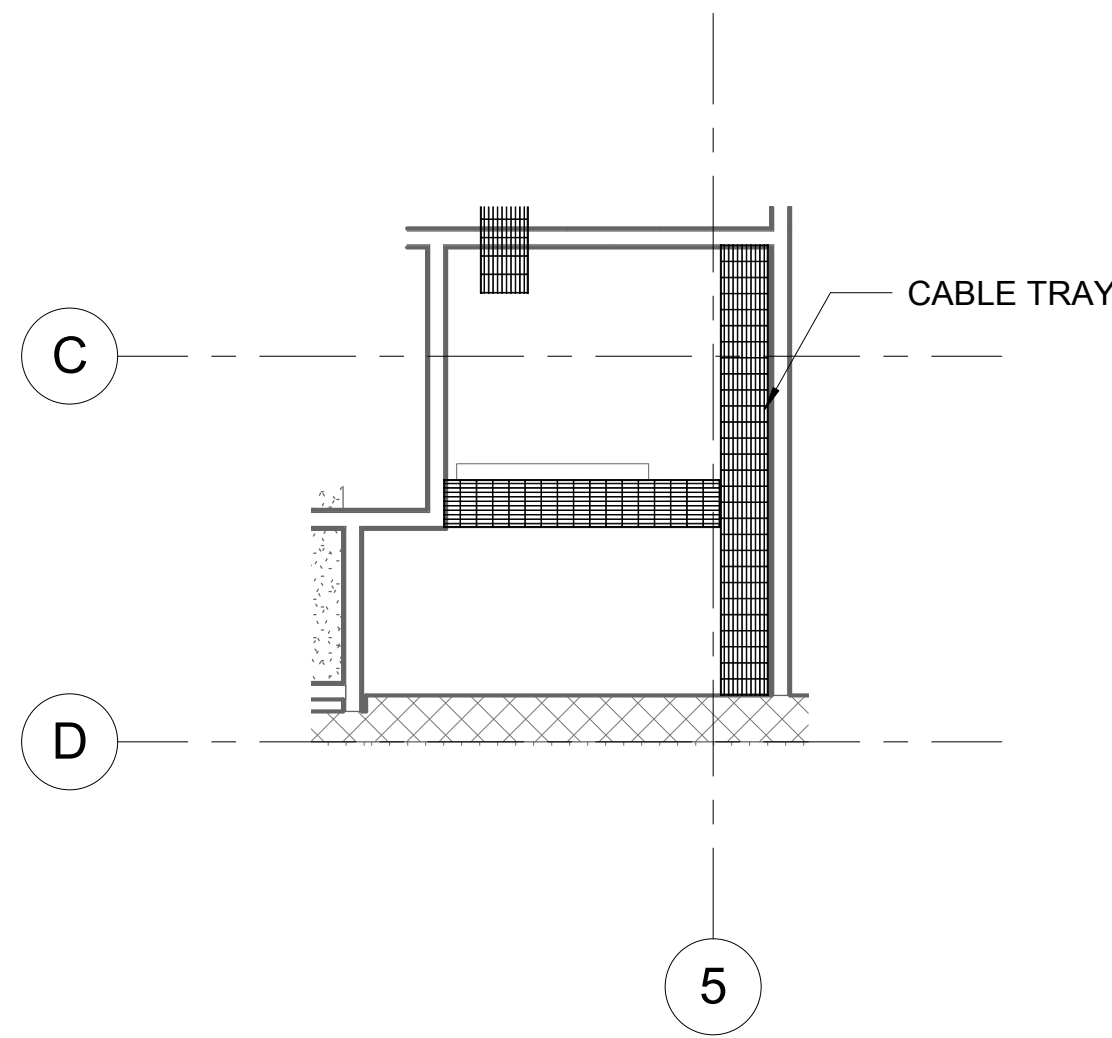


6 RISER DIAGRAM
NTS

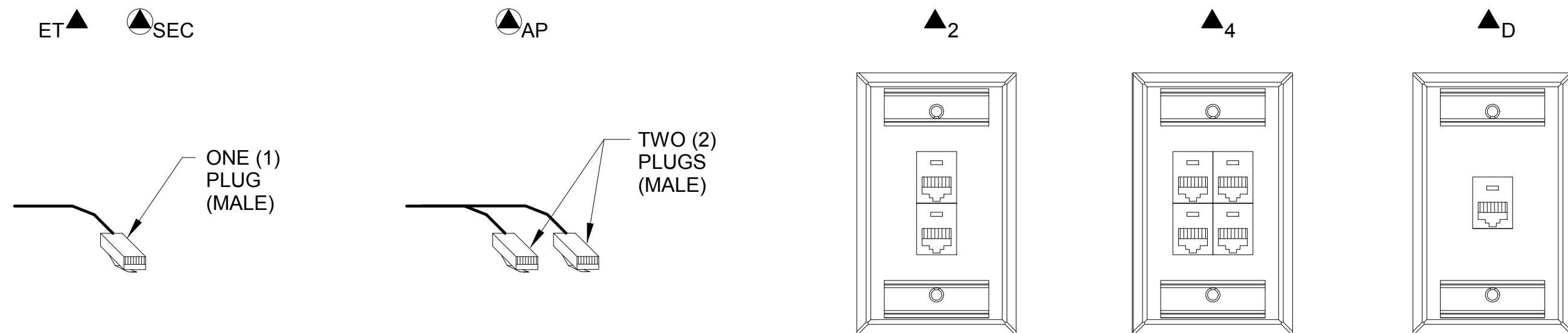
- 1 INSTALL ONE (1) 6-STRAND OS2 SINGLEMODE OPTICAL FIBER CABLE FROM EXISTING TELECOM ROOM IN THE BASEMENT OF THE EXISTING CHAPEL. IN THE EXISTING CHAPEL, TERMINATE WITH LC CONNECTORS INSTALLED IN AN EXISTING WALL-MOUNTED FIBER PANEL. IN THE NEW TELECOM ROOM (002), TERMINATE WITH LC CONNECTORS INSTALLED IN A NEW RACK-MOUNTED FIBER PANEL.
- 2 INSTALL ONE (1) 25-PAIR OSP COPPER CABLE FROM EXISTING TELECOM ROOM IN THE BASEMENT OF THE EXISTING CHAPEL. ON EACH END, TERMINATE ON A WALL-MOUNTED BUILDING ENTRANCE TERMINALS WITH SURGE PROTECTORS.



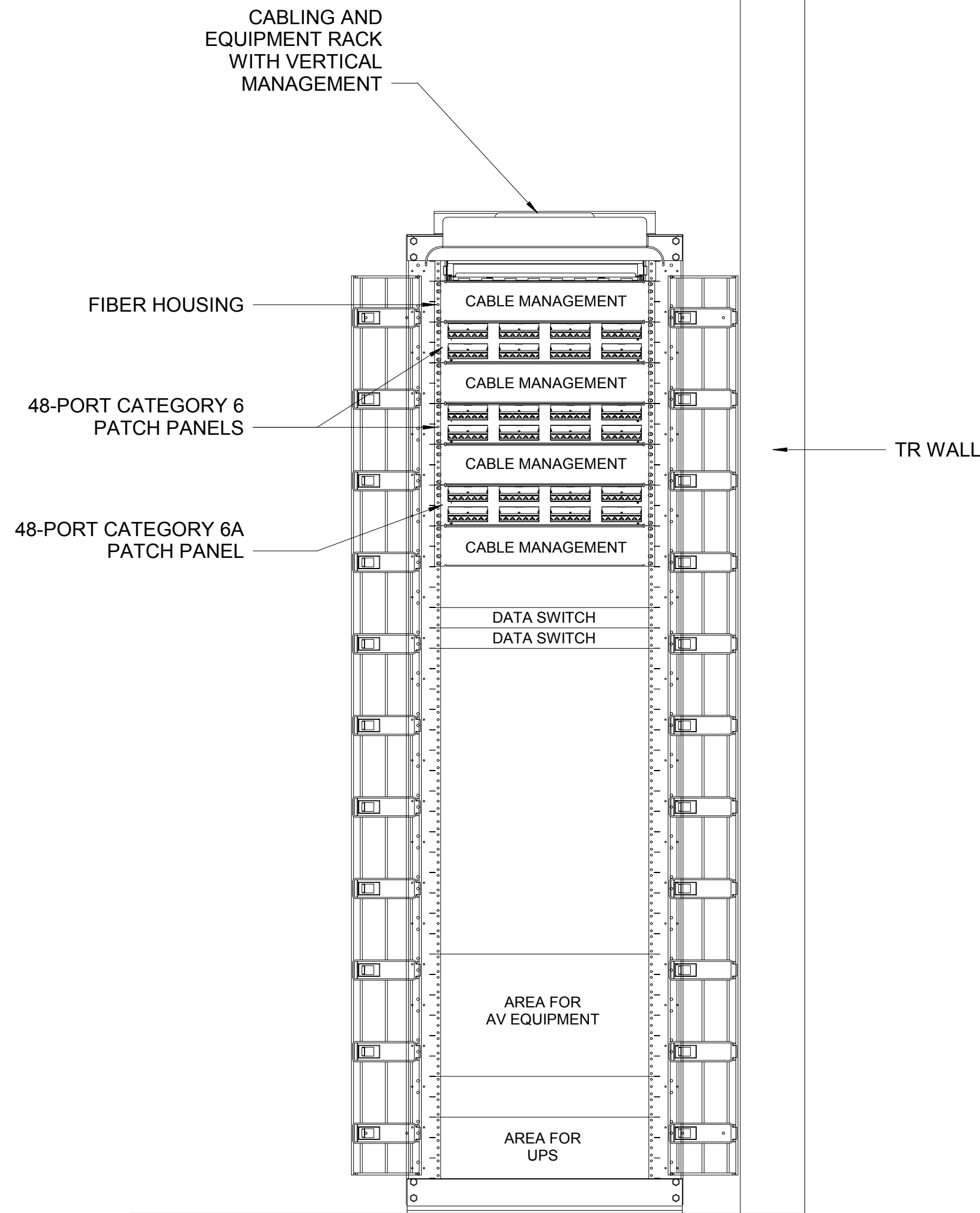
2 TELECOM ROOM 002 RCP
1/4" = 1'-0"



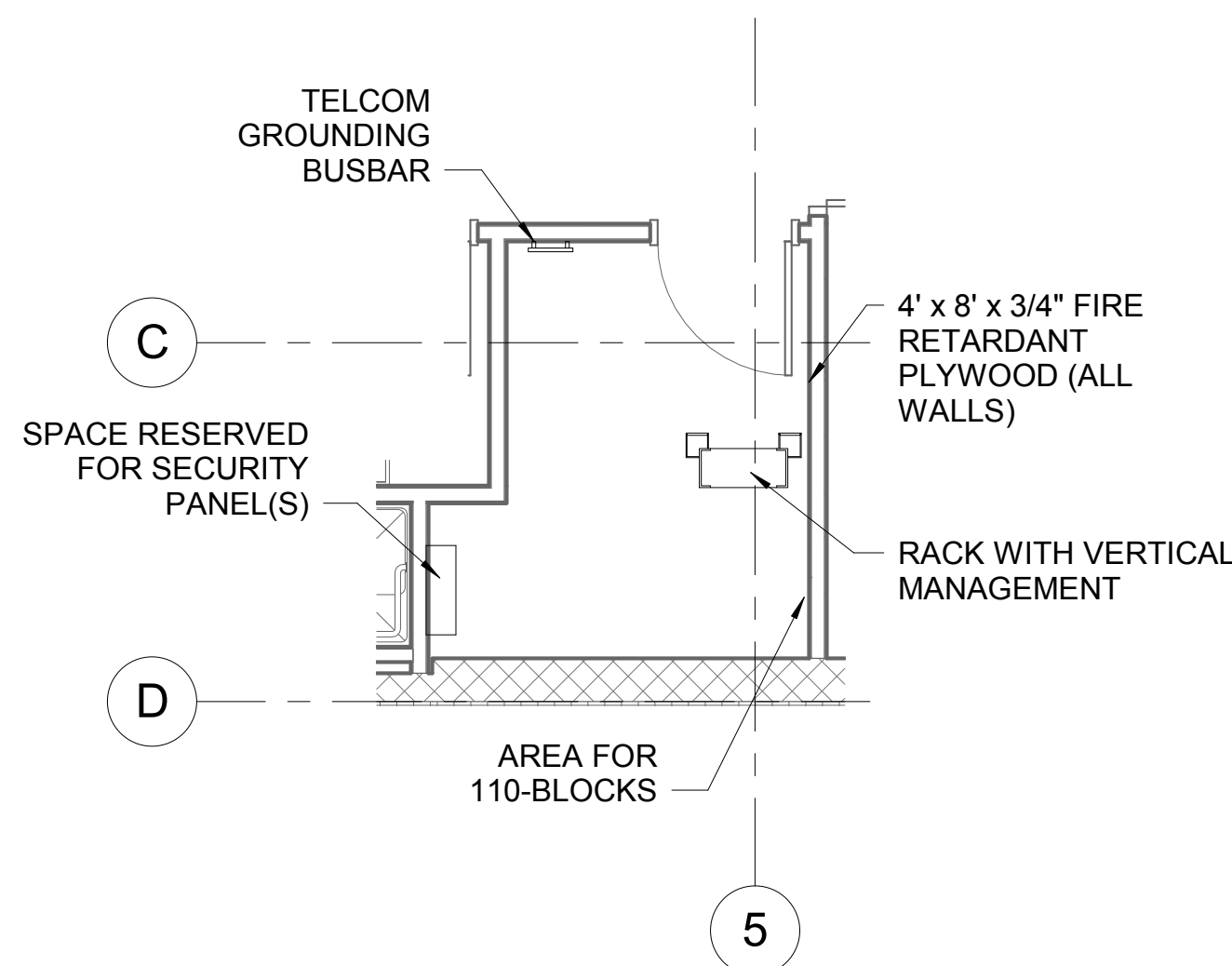
4 FACEPLATE DETAILS
NTS



5 TR RACK ELEVATION
NTS



1 TELECOM ROOM 002 FLOOR PLAN
1/4" = 1'-0"



DRAWING NUMBER

T4.02

TECHNOLOGY SYSTEMS -
TELECOM CABLING DETAILS

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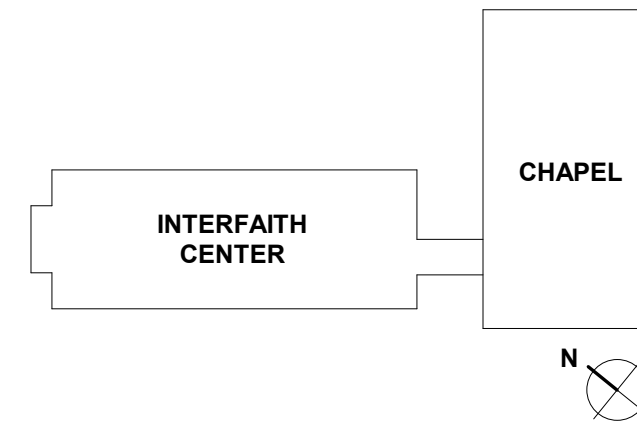
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ISSUE DATE: 04/28/17
SCALE: As indicated
JOB NO.: 21641.00
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