



Table with 4 columns: Abbreviation, Description, Abbreviation, Description. Includes categories like GENERIC HVAC ABBREVIATIONS, PIPING SYSTEM SPECIFIC NOTES, and AIR SYSTEM SPECIFIC NOTES.

Table with 2 columns: Section Header, Content. Includes HVAC GENERAL NOTES (1-13), AIR SYSTEM SPECIFIC NOTES (1-11), and PIPING SYSTEM SPECIFIC NOTES (1-6).

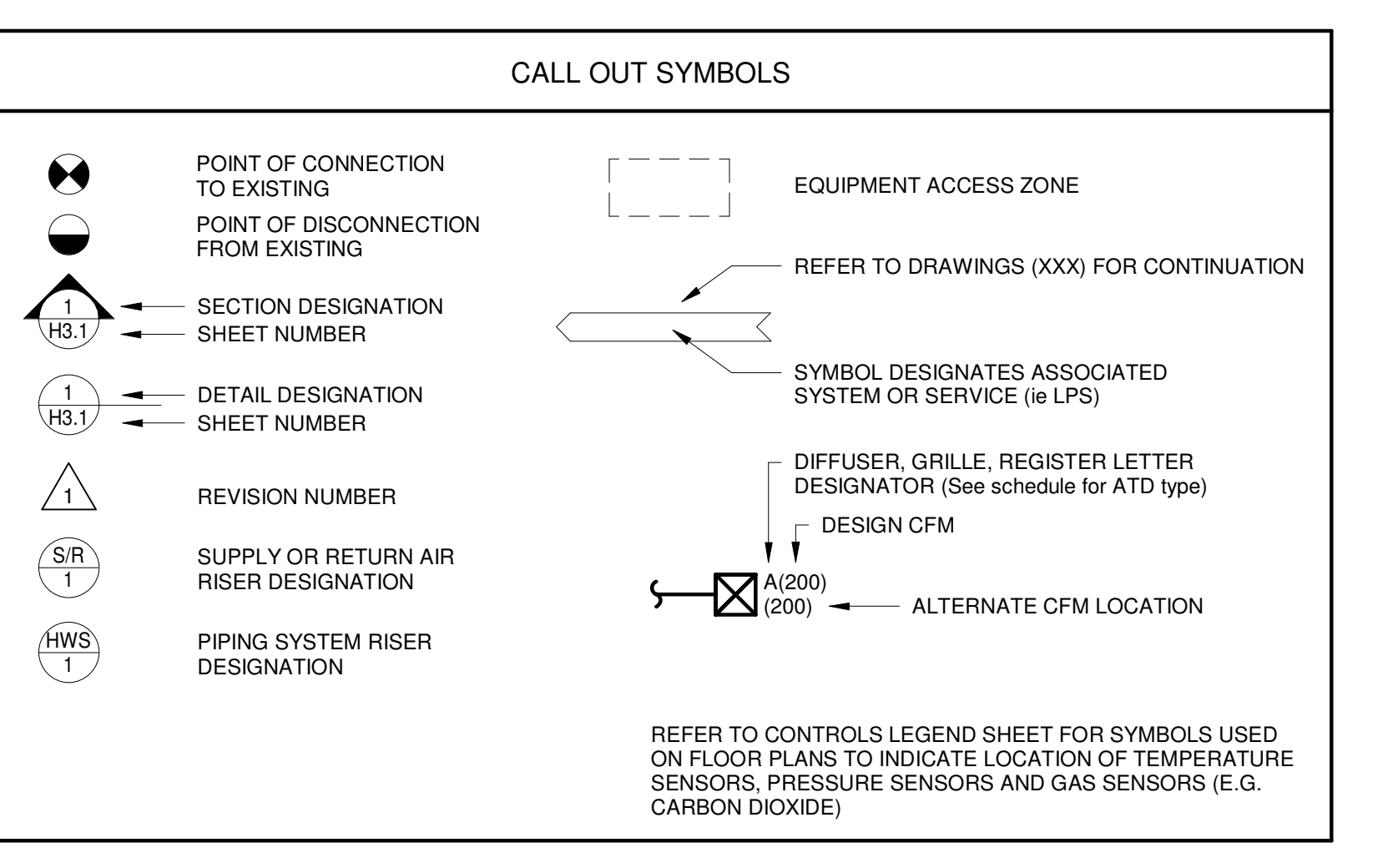
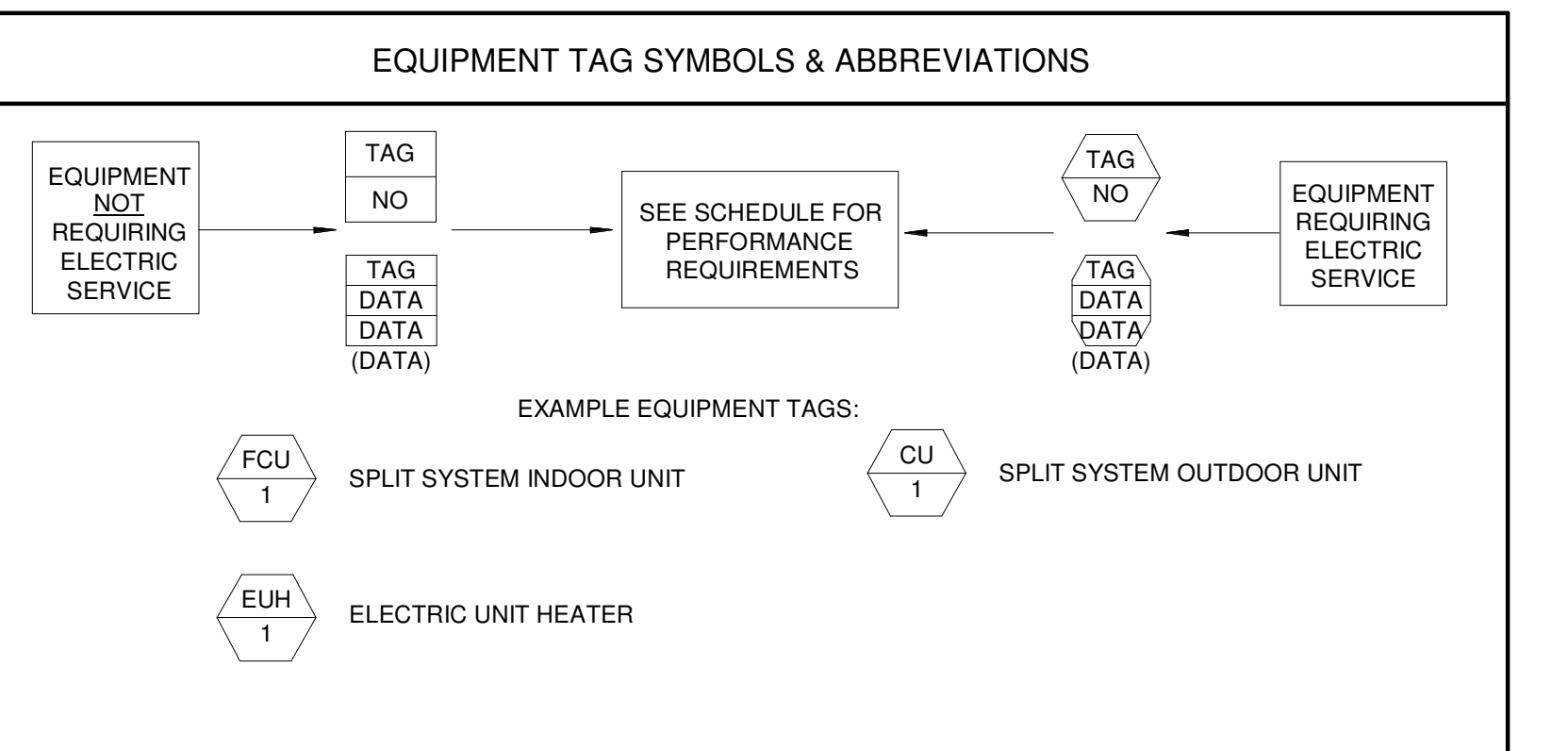
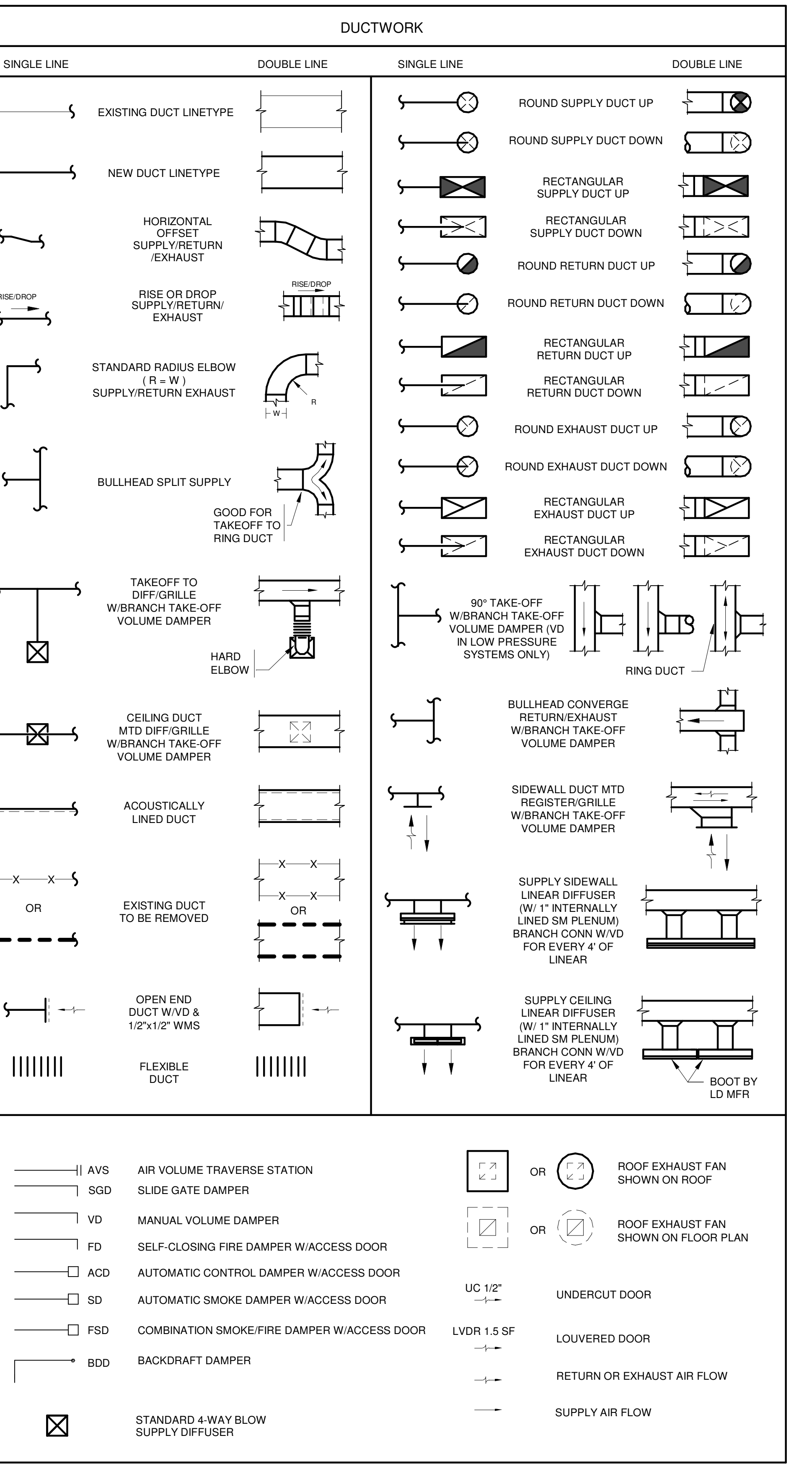


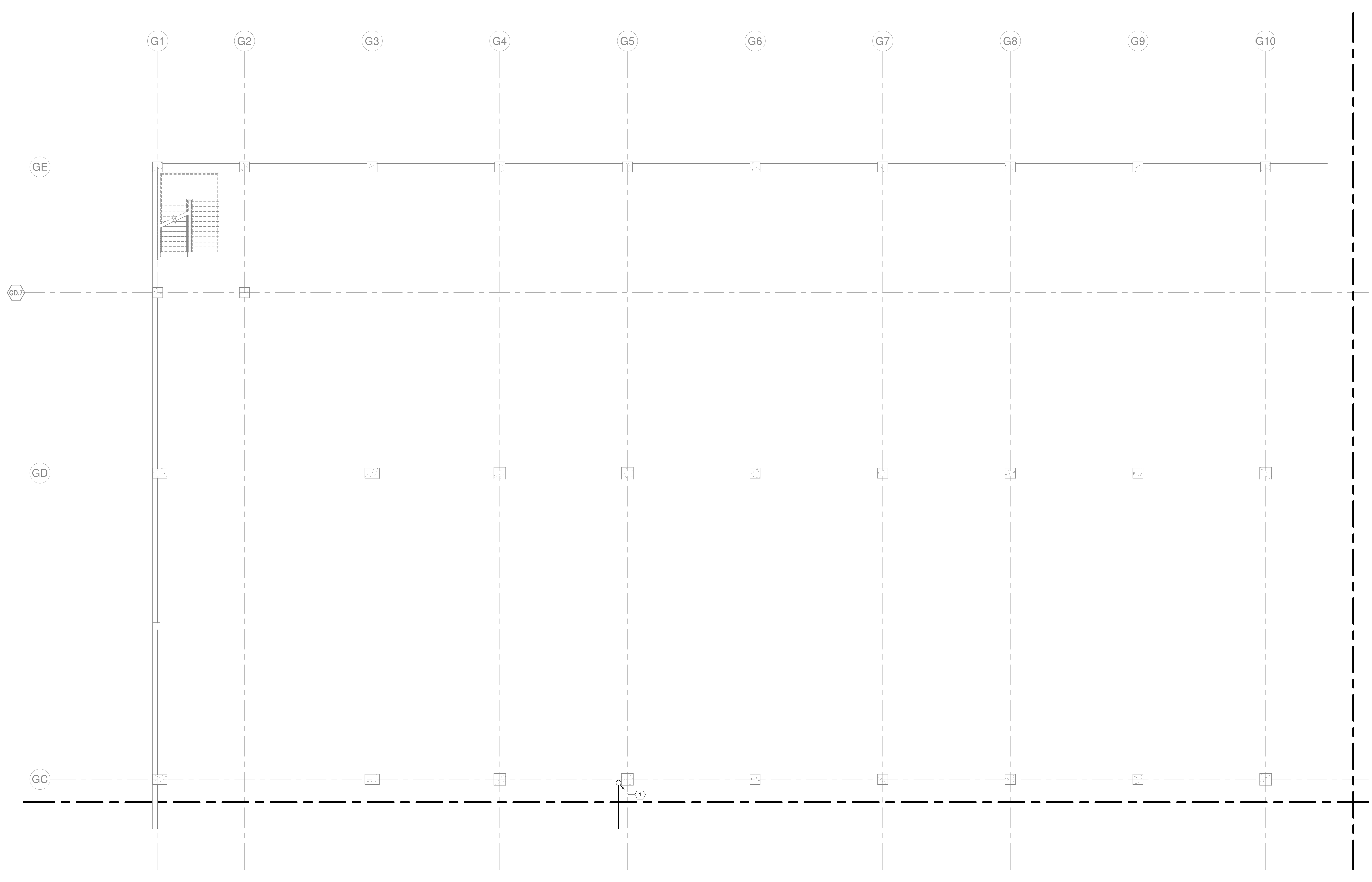
Table titled '2018 APPENDIX B - MECHANICAL DESIGN' listing thermal zones, interior design conditions, utility conditions, and building heating/cooling loads.



VERTICAL SCALE: 1" = 8'-0" HORIZONTAL SCALE: 1" = 16'-0" DATE: 01/31/2023 11:55:04 AM

15/03/2023 11:52:09 AM [REDACTED]

- HVAC GENERAL NOTES:**
1. SLOPE CONDENSATE A MINIMUM OF 1/8" PER LINEAR FOOT TOWARD DRAIN. CONDENSATE ROUTED ACROSS GARAGE SHALL BE INSTALLED ABOVE THE BOTTOM OF BEAM ELEVATION.
 2. PROVIDE CLEANOUT AT CHANGES IN DIRECTION OF CONDENSATE PIPING.
 3. AVOID ROUTING CONDENSATE PIPING DIRECTLY ABOVE ELECTRICAL EQUIPMENT WHERE CONDENSATE MUST BE INSTALLED ABOVE ELECTRICAL EQUIPMENT PROVIDE DRIP PAN BENEATH PIPING.
 4. PIPE GUARDS SHALL BE PROVIDED FOR EXPOSED VERTICAL PIPING. SEE ARCHITECTURAL DRAWINGS FOR REQUIREMENTS.
- KEYNOTES:**
1. 1" CD DOWN FROM FLOOR ABOVE.



1 HVAC - LEVEL G1 - AREA J
1/8" = 1'-0"

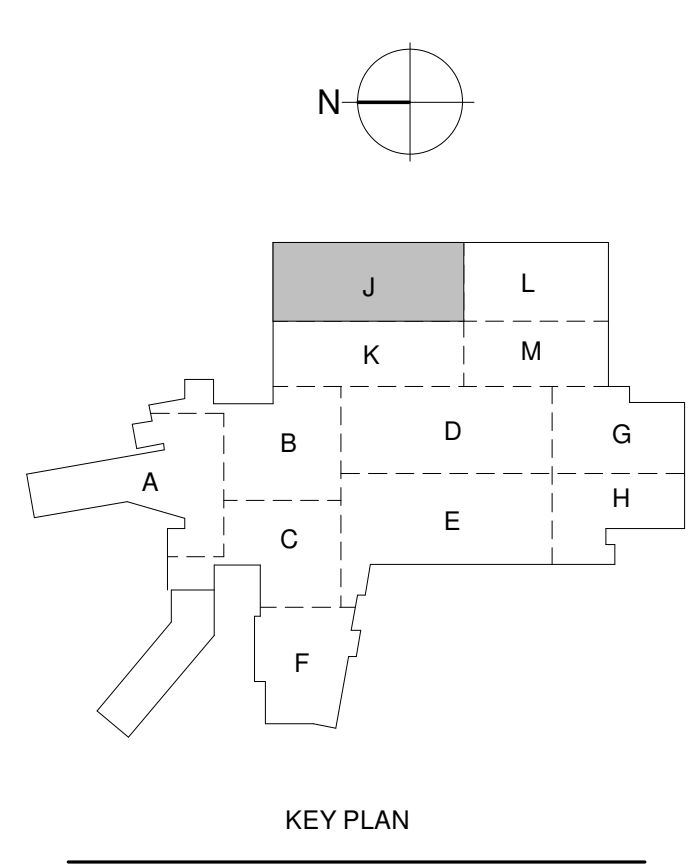
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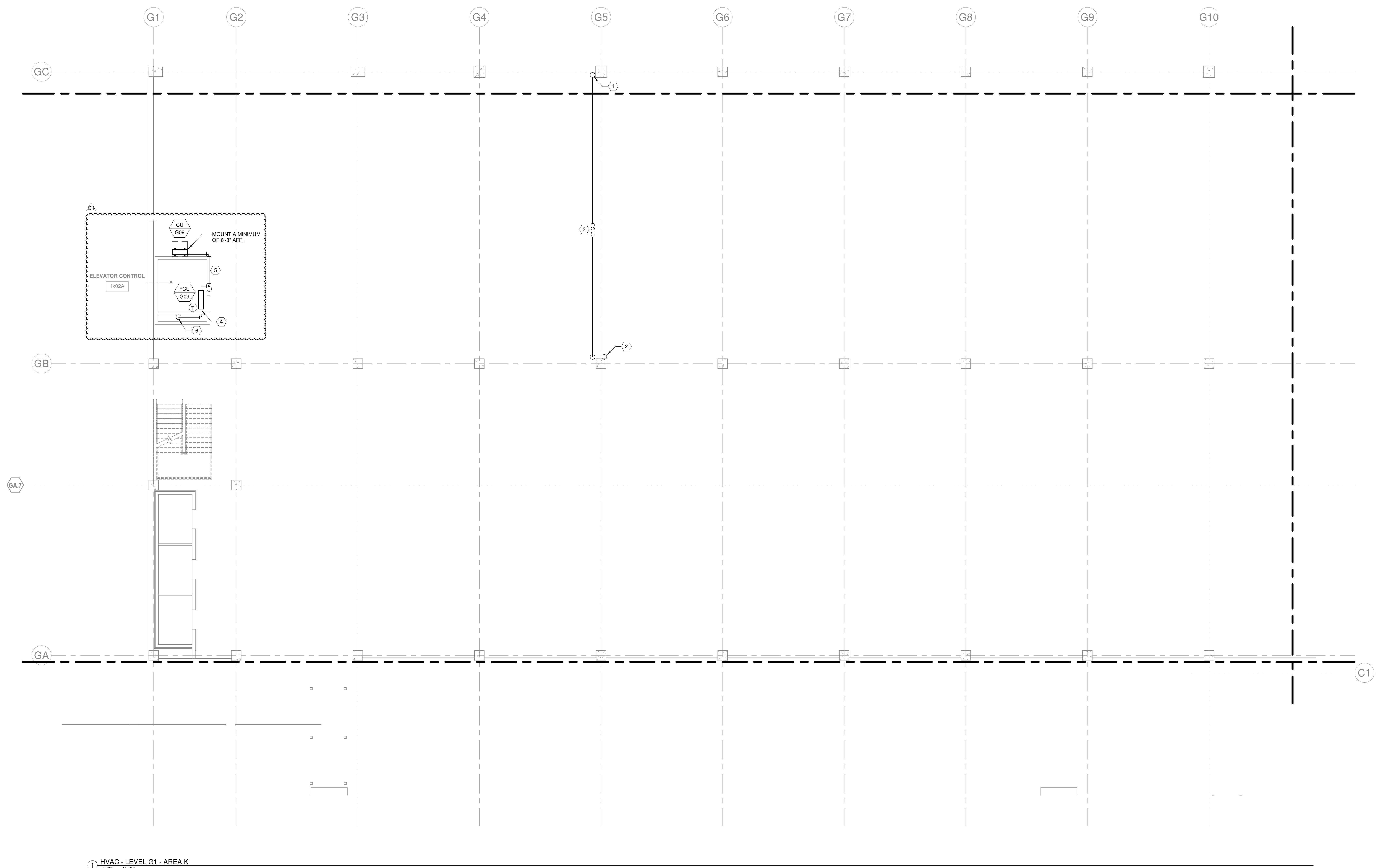
ISSUE	08/16/2022
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SCALE	As indicated
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HVAC - LEVEL G1 - AREA J

M-111J

DATE PLOTTED: 1/30/2023 11:15:15 AM
DRAWN: MWM
PROJECT: 2022-1214 - PARKING GARAGE VE
SHEET: M-111K
SCALE: AS SHOWN
TITLED: HVAC - LEVEL G1 - AREA K
DATE: 01/31/2023
DRAWN BY: MWM
CHECKED BY: MWM
DATE: 01/31/2023
PROJECT: 2022-1214 - PARKING GARAGE VE
SHEET: M-111K
SCALE: AS SHOWN
TITLED: HVAC - LEVEL G1 - AREA K
DATE: 01/31/2023
DRAWN BY: MWM
CHECKED BY: MWM

- HVAC GENERAL NOTES:**
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 4. PIPE GUARDS SHALL BE PROVIDED FOR EXPOSED VERTICAL PIPING. SEE ARCHITECTURAL DRAWINGS FOR REQUIREMENTS.
- KEYNOTES:**
1. 1" CD DOWN FROM FLOOR ABOVE.
 2. ROUTE 1" CD DOWN ADJACENT TO COLUMN AND DUMP TO DECK 0'-6" AFF NEAR PLUMBING DRAIN. SEE PLUMBING DRAWINGS FOR DRAIN LOCATION.
 3. ROUTE 1" CD ACROSS GARAGE TIGHT TO DECK ABOVE.
 4. CONDENSATE DRAIN PIPING SHALL MATCH UNIT CONNECTION SIZE.
 5. REFRIGERANT LINE SET FROM FAN COIL UNIT TO CONDENSING UNIT. SIZE REFRIGERANT PIPING PER MANUFACTURERS REQUIREMENTS.
 6. ROUTE CONDENSATE DRAIN DOWN TO OPEN ENDED DRAIN. SEE PLUMBING DRAWINGS FOR DRAIN LOCATION.

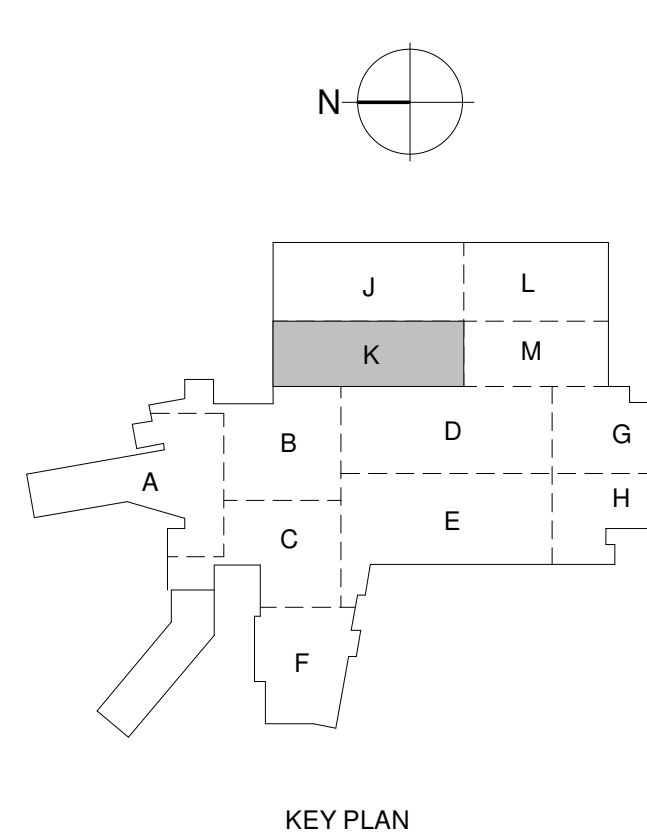


1 HVAC - LEVEL G1 - AREA K
1/8" = 1'-0"

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G1 2022-1214 PARKING GARAGE VE

HVAC - LEVEL G1 - AREA K

M-111K

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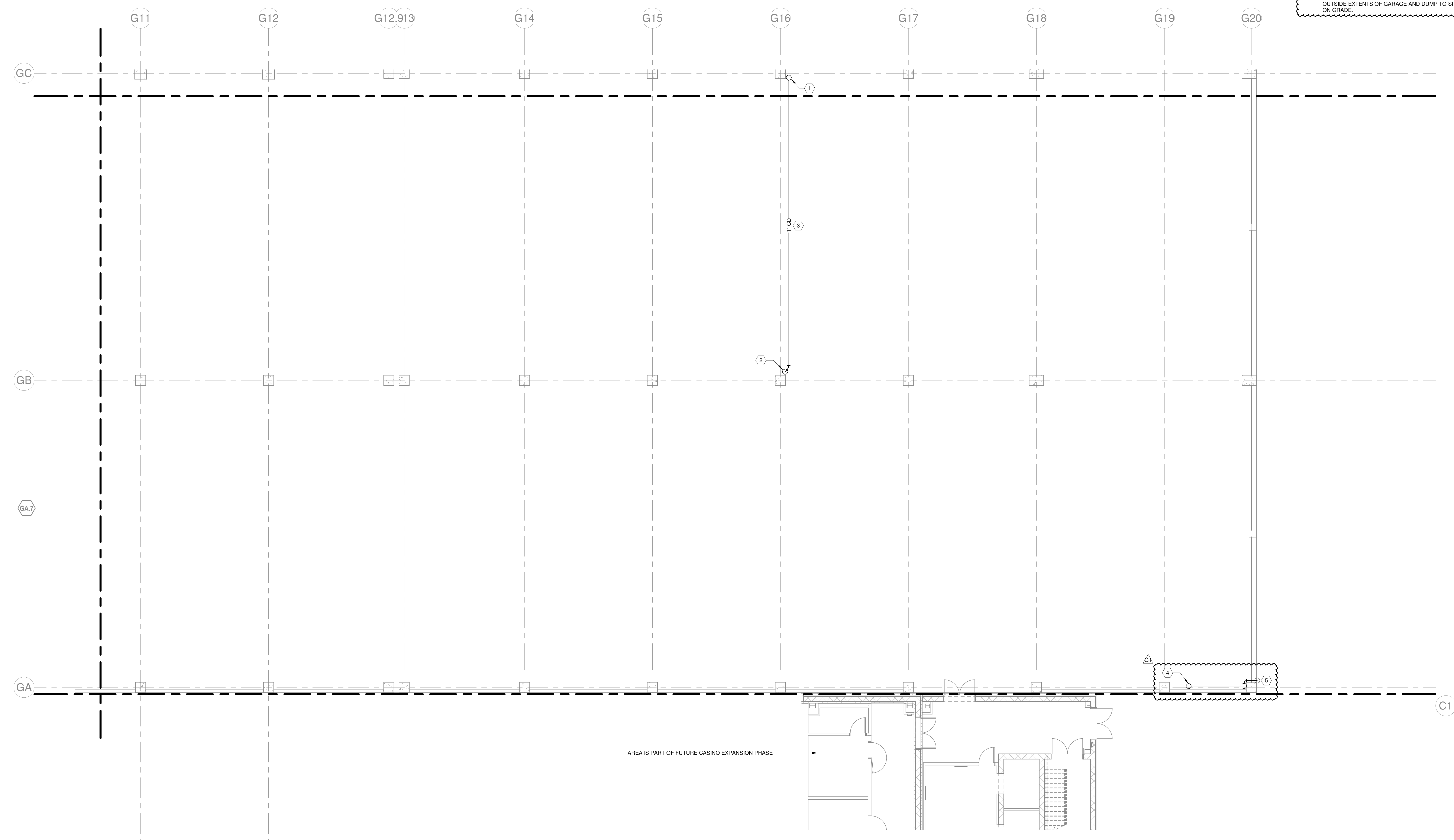
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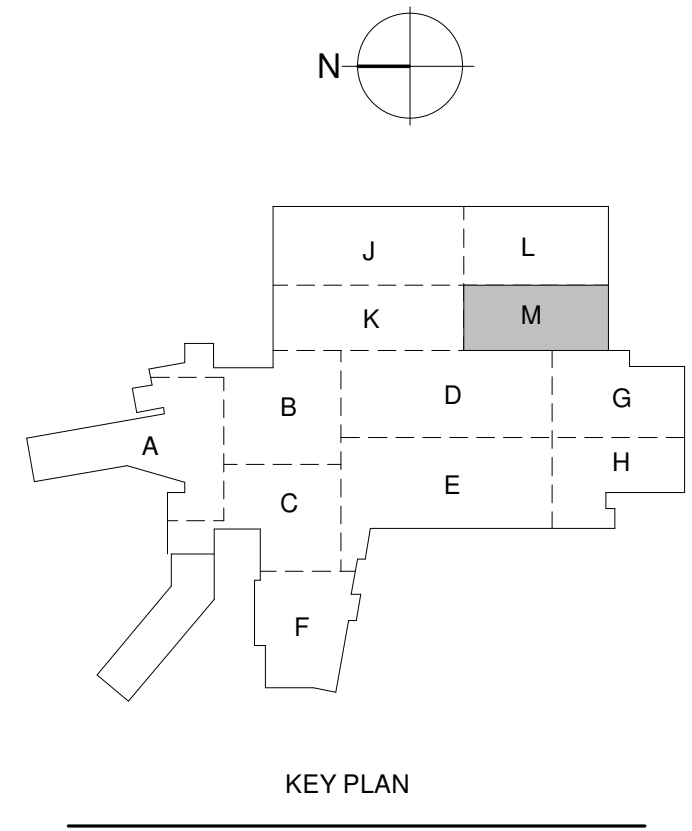
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Boston, MA 02219 : vanderweil.com

- HVAC GENERAL NOTES:**
1. SLOPE CONDENSATE A MINIMUM OF 1/8" PER LINEAR FOOT TOWARD DRAIN. CONDENSATE ROUTED ACROSS GARAGE SHALL BE INSTALLED ABOVE THE BOTTOM OF BEAM ELEVATION.
 2. PROVIDE CLEANOUT AT CHANGES IN DIRECTION OF CONDENSATE PIPING.
 3. AVOID ROUTING CONDENSATE PIPING DIRECTLY ABOVE ELECTRICAL EQUIPMENT. WHERE CONDENSATE MUST BE INSTALLED ABOVE ELECTRICAL EQUIPMENT PROVIDE DRIP PAN BENEATH PIPING.
 4. PIPE GUARDS SHALL BE PROVIDED FOR EXPOSED VERTICAL PIPING. SEE ARCHITECTURAL DRAWINGS FOR REQUIREMENTS.
- KEYNOTES:**
1. 1" CD DOWN FROM FLOOR ABOVE.
 2. ROUTE 1" CD DOWN ADJACENT TO COLUMN AND DUMP TO DECK 1/4" AFF NEAR PLUMBING DRAIN. SEE PLUMBING DRAWINGS FOR DRAIN LOCATION.
 3. ROUTE 1" CD ACROSS GARAGE TIGHT TO DECK ABOVE. CONDENSATE DRAIN DOWN FROM FLOOR ABOVE.
 4. ROUTE CONDENSATE DRAIN DOWN ADJACENT COLUMN AND OUTSIDE EXTENTS OF GARAGE AND DUMP TO SPLASH BLOCK ON GRADE.
 5. ROUTE CONDENSATE DRAIN DOWN ADJACENT COLUMN AND OUTSIDE EXTENTS OF GARAGE AND DUMP TO SPLASH BLOCK ON GRADE.



AREA IS PART OF FUTURE CASINO EXPANSION PHASE



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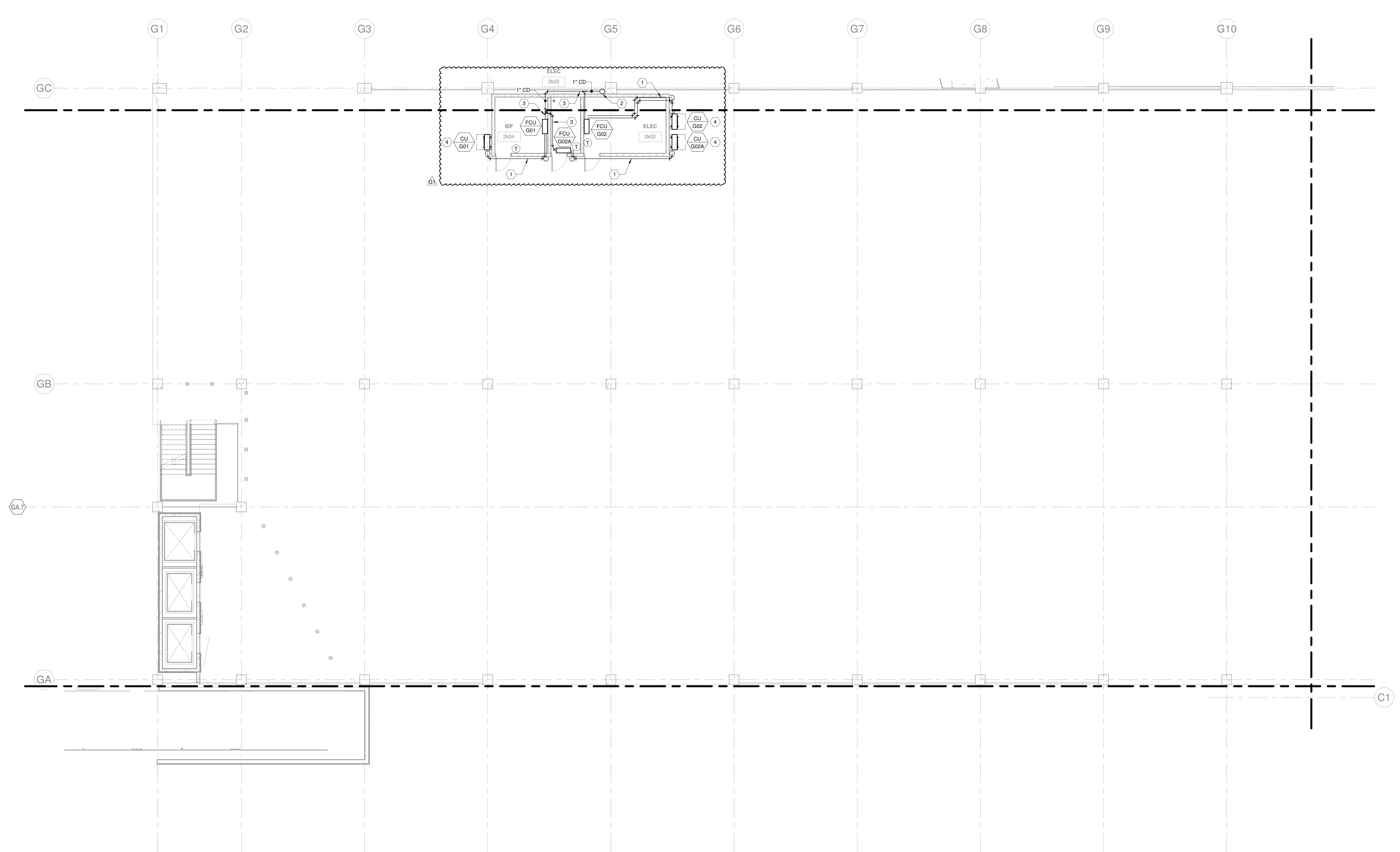
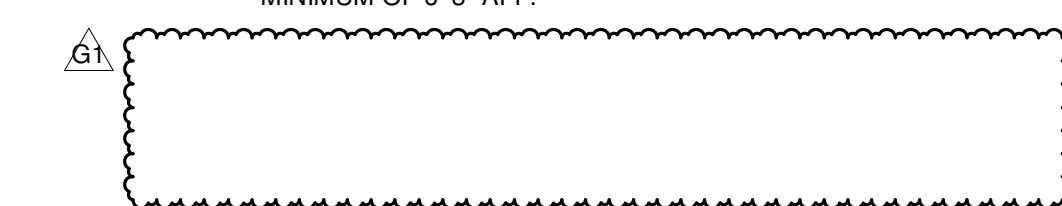
1 HVAC - LEVEL G1 - AREA M
1/8" = 1'-0"

HVAC - LEVEL G1 - AREA M

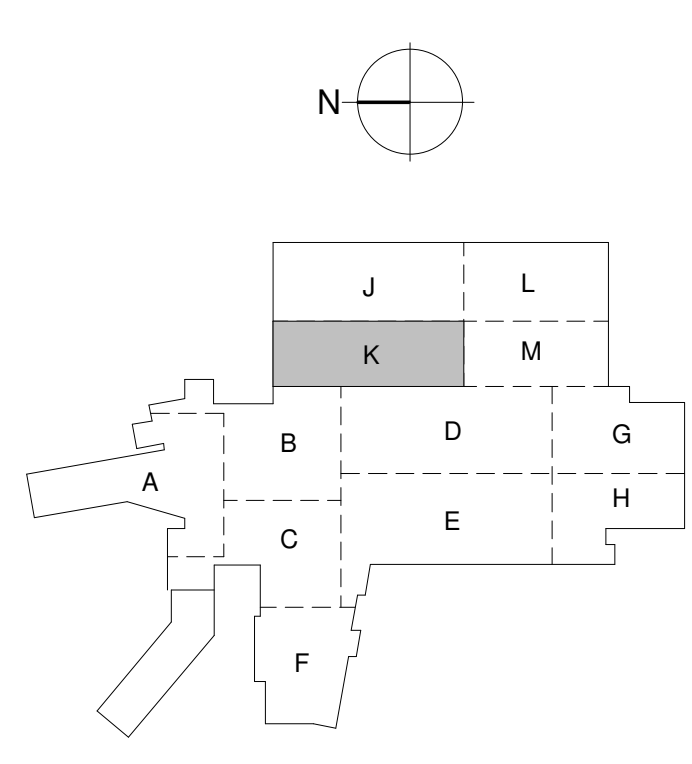
M-111M

1/30/2023 11:52:26 AM

- HVAC GENERAL NOTES:**
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- KEYNOTES:**
1. REFRIGERANT LINE SET FROM FAN COIL UNIT TO CONDENSING UNIT. SIZE REFRIGERANT PIPING PER MANUFACTURERS REQUIREMENTS.
 2. 1" CD DOWN FROM FLOOR ABOVE AND DOWN TO FLOOR BELOW.
 3. CONDENSATE DRAIN PIPING SHALL MATCH UNIT CONNECTION SIZE.
 4. PROVIDE WITH WALL MOUNT BRACKET AND INSTALL A MINIMUM OF 6'-3" AFF.



1 HVAC - LEVEL G2 - AREA K
1/8" = 1'-0"



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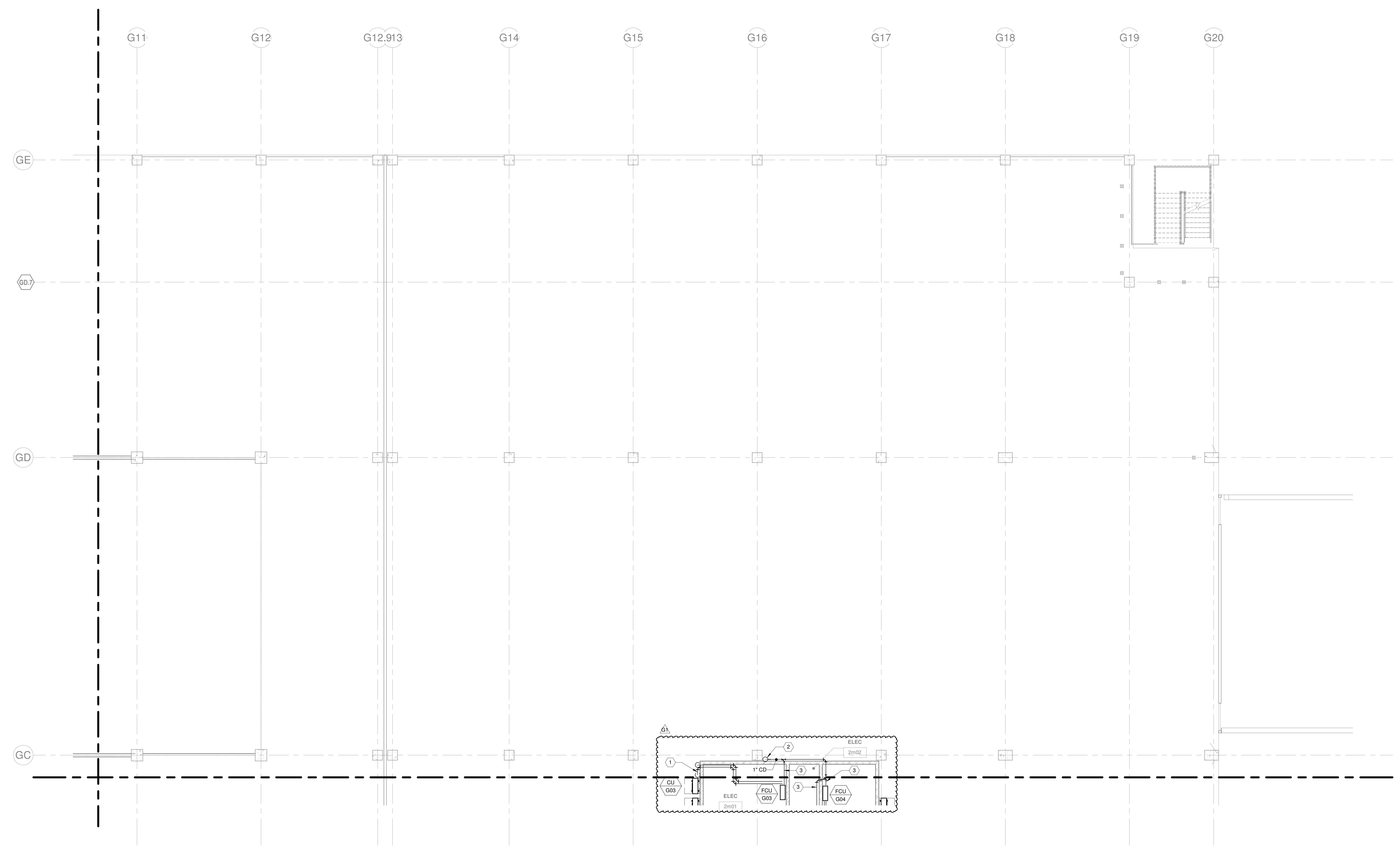


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G1	2022-1214 PARKING GARAGE VE

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- HVAC GENERAL NOTES:**
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 3. CONDENSATE DRAIN PIPING SHALL MATCH UNIT CONNECTION SIZE.



1 HVAC - LEVEL G2 - AREA L
1/8" = 1'-0"

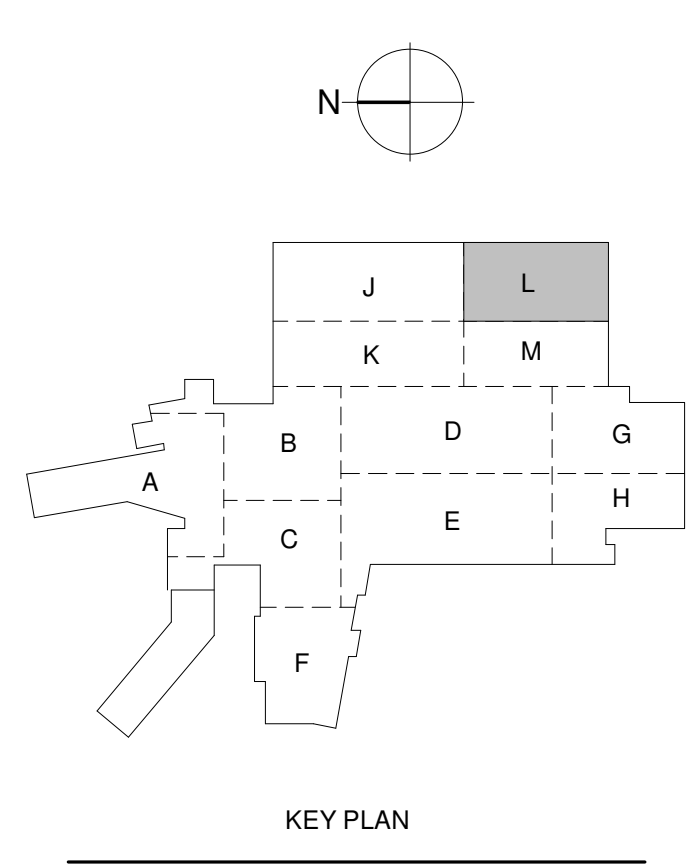
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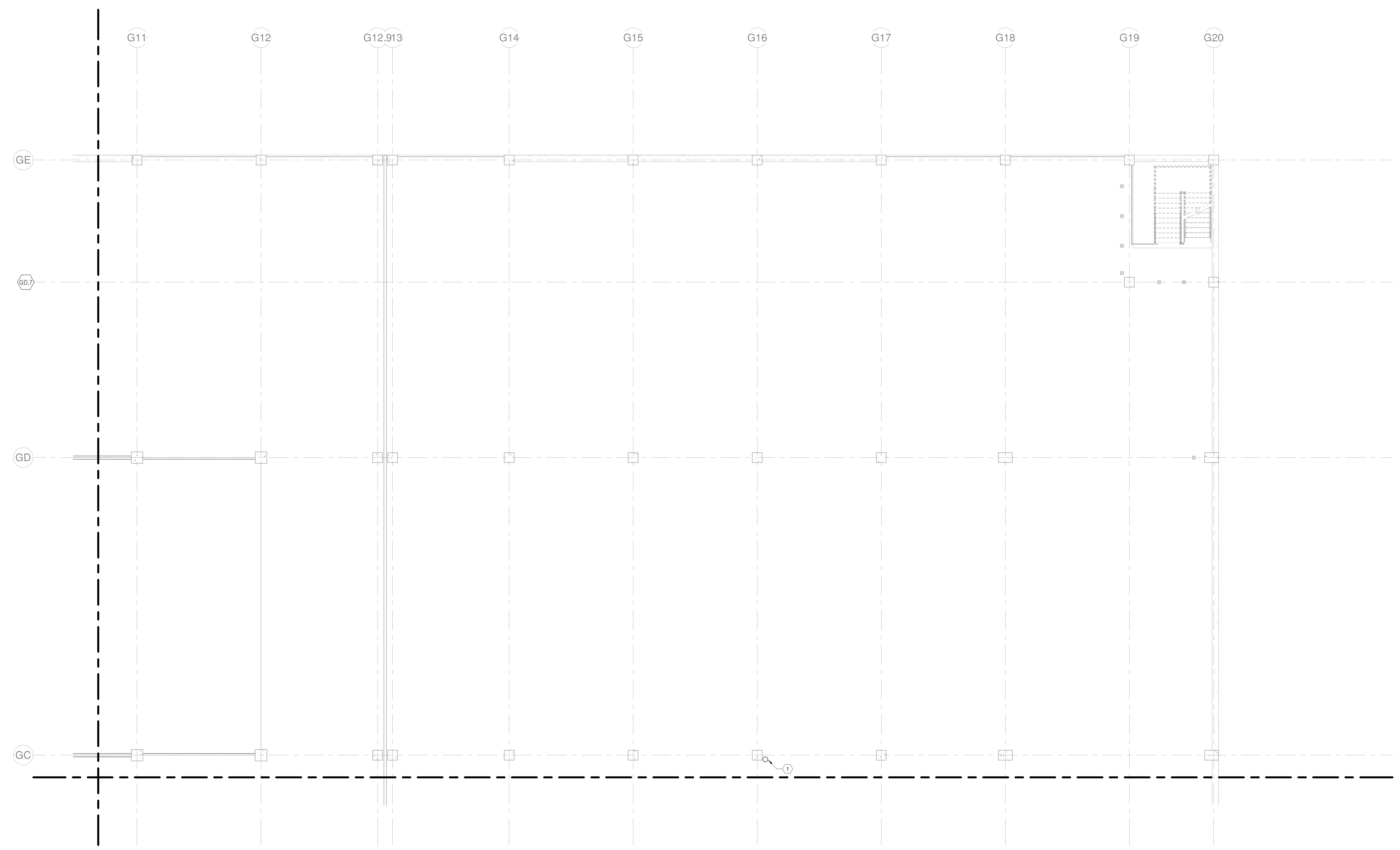
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G1	2022-1214 PARKING GARAGE VE

HVAC - LEVEL G2 - AREA L

M-112L

15/03/2023 11:55:33 AM [REDACTED]

- HVAC GENERAL NOTES:**
1. SLOPE CONDENSATE A MINIMUM OF 1/8" PER LINEAR FOOT TOWARD DRAIN. CONDENSATE ROUTED ACROSS GARAGE SHALL BE INSTALLED ABOVE THE BOTTOM OF BEAM ELEVATION.
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- KEYNOTES:**
1. 1" CD DOWN FROM FLOOR ABOVE AND DOWN TO FLOOR BELOW.



① HVAC - LEVEL G3 - AREA L
1/8" = 1'-0"

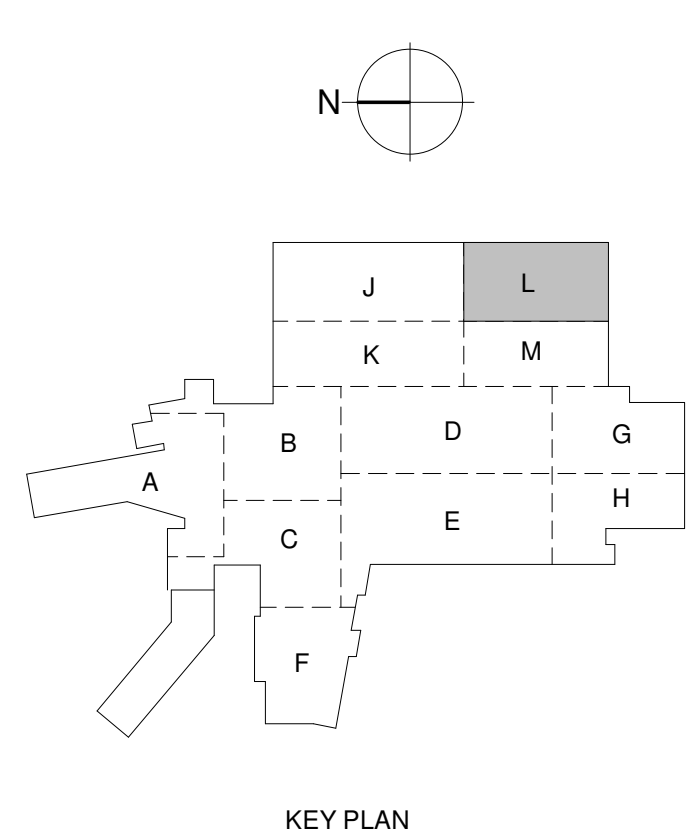
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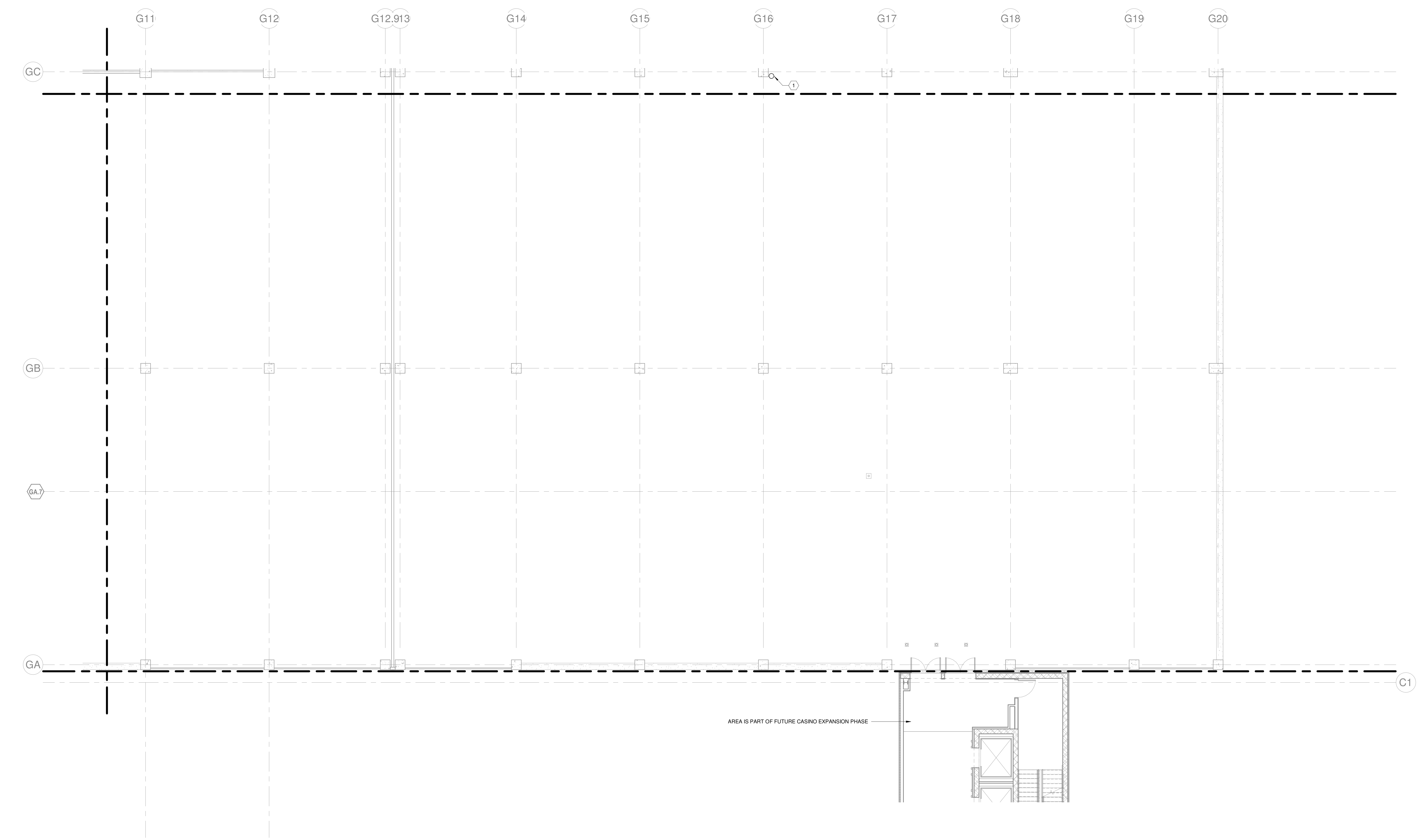
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HVAC - LEVEL G3 - AREA L

M-113L

1/30/2023 11:52:57 AM

- HVAC GENERAL NOTES:**
1. SLOPE CONDENSATE A MINIMUM OF 1/8" PER LINEAR FOOT TOWARD DRAIN. CONDENSATE ROUTED ACROSS GARAGE SHALL BE INSTALLED ABOVE THE BOTTOM OF BEAM ELEVATION.
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- KEYNOTES:**
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1 HVAC - LEVEL G3 - AREA M
1/8" = 1'-0"

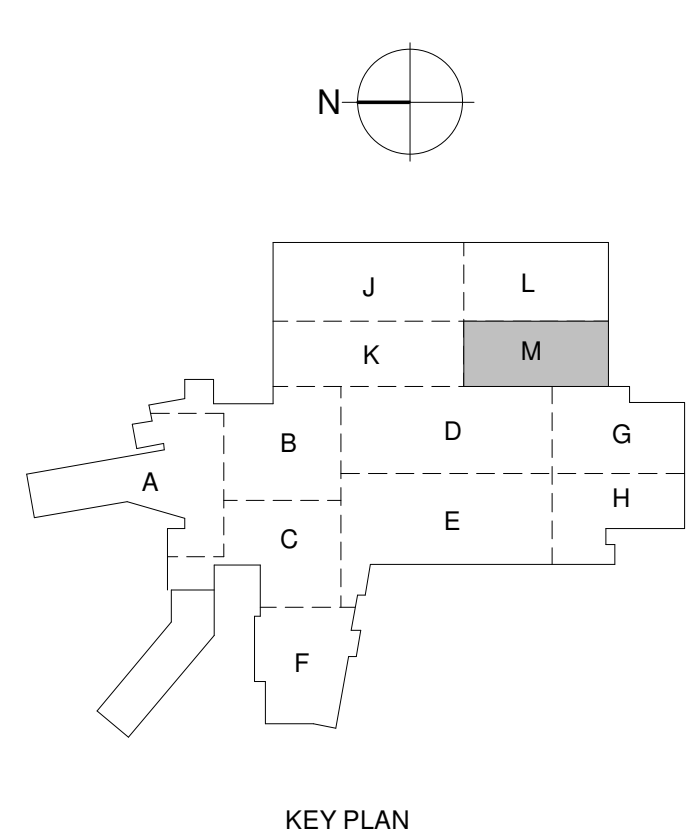
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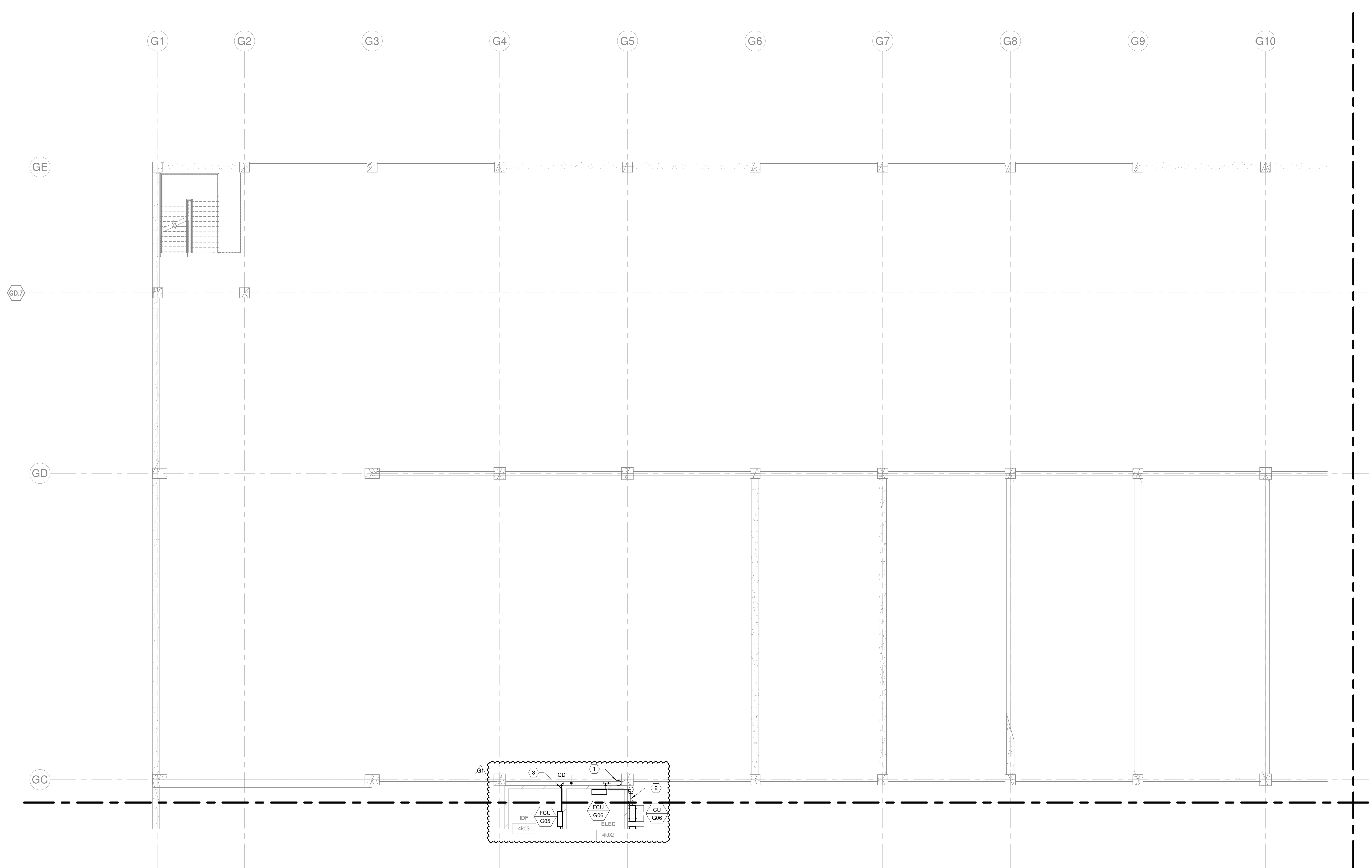
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HVAC - LEVEL G3 - AREA M

M-113M

15/06/2023 11:17:02 AM - DRAWING GENERATED BY: JVC - PROJECT: 2022-1214 - PARKING GARAGE - SHEET: M-114J - SCALE: 1/8" = 1'-0" - DATE: 01/31/2023

- HVAC GENERAL NOTES:**
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- KEYNOTES:**
1. 1" CD DOWN TO FLOOR BELOW.
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 3. CONDENSATE DRAIN PIPING SHALL MATCH UNIT CONNECTION SIZE.

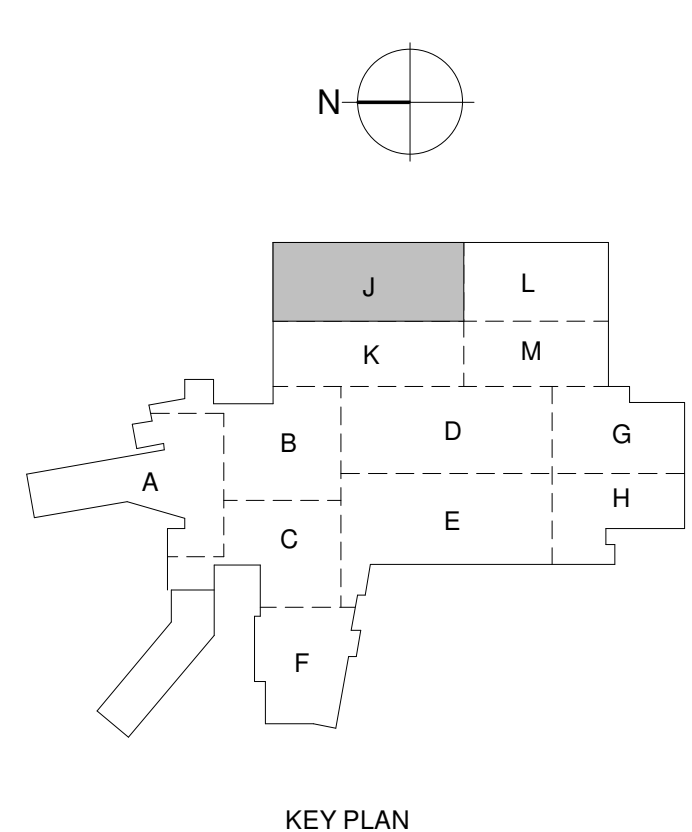


1 HVAC - LEVEL G4 - AREA J
1/8" = 1'-0"

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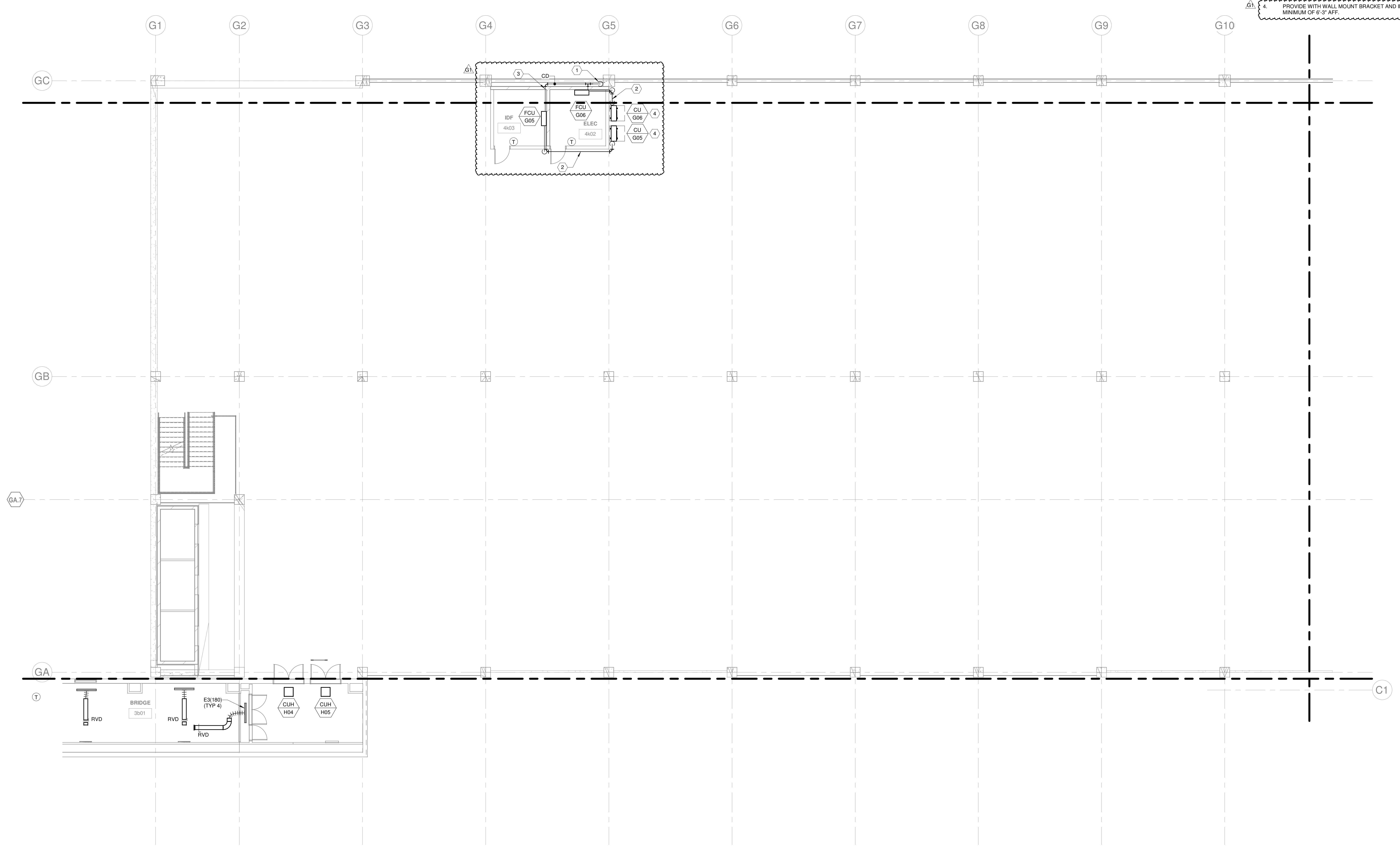


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HVAC - LEVEL G4 - AREA J

M-114J

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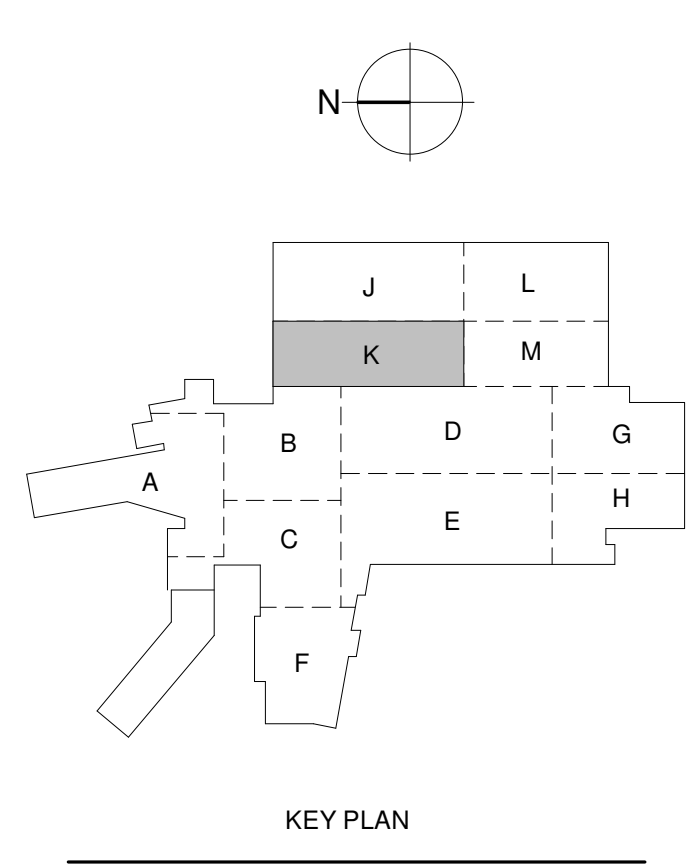
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- KEYNOTES:**
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 3. CONDENSATE DRAIN PIPING SHALL MATCH UNIT CONNECTION SIZE.
 4. PROVIDE WITH WALL MOUNT BRACKET AND INSTALL A MINIMUM OF 6" AFF.

1 HYAC - LEVEL G4 - AREA K
1/8" = 1'-0"

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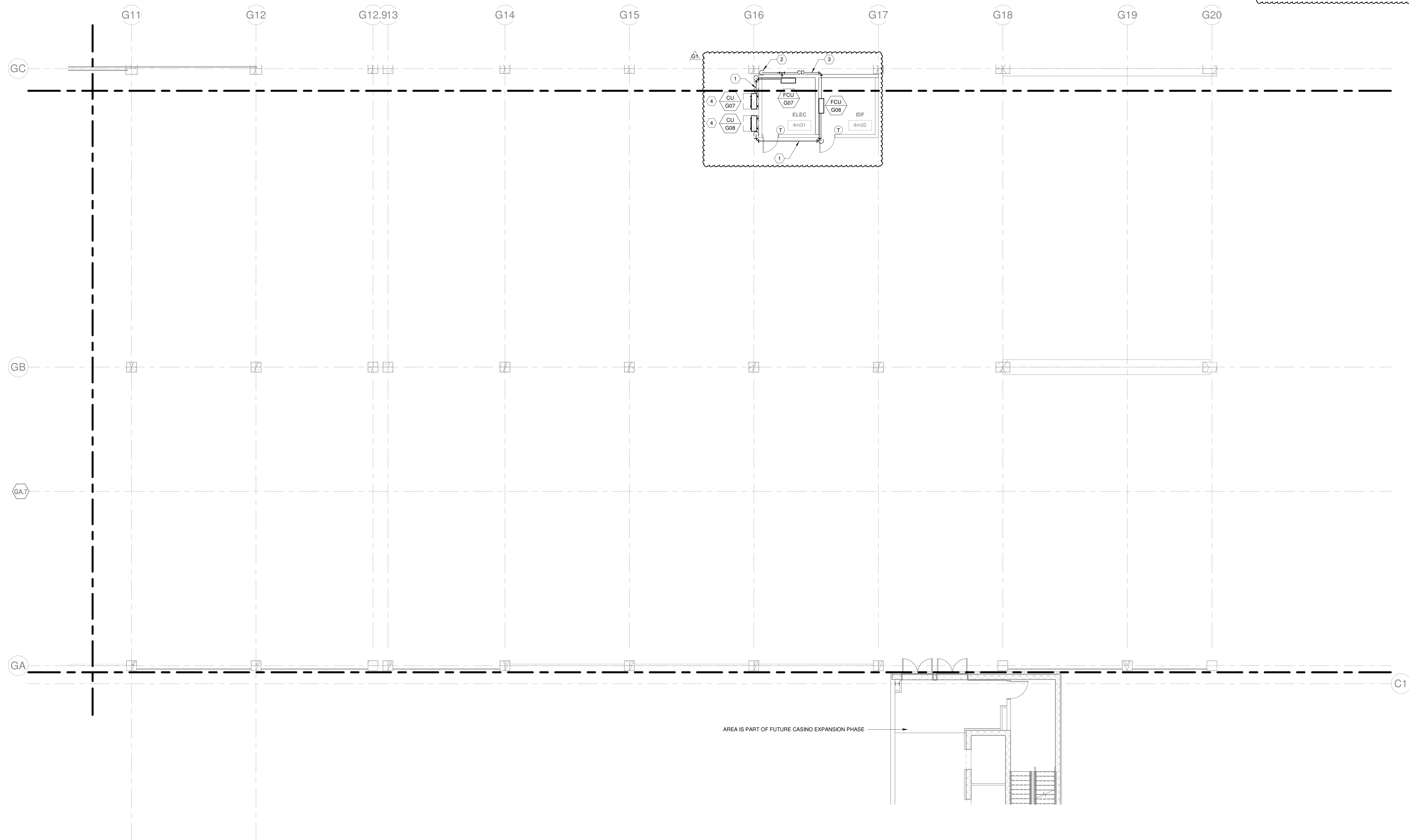


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HVAC - LEVEL G4 - AREA K

M-114K

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- HVAC GENERAL NOTES:**
1. SLOPE CONDENSATE A MINIMUM OF 1/8" PER LINEAR FOOT TOWARD DRAIN. CONDENSATE ROUTED ACROSS GARAGE SHALL BE INSTALLED ABOVE THE BOTTOM OF BEAM ELEVATION.
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 4. PROVIDE WITH WALL MOUNT BRACKET AND INSTALL A MINIMUM OF 6"± AFF.

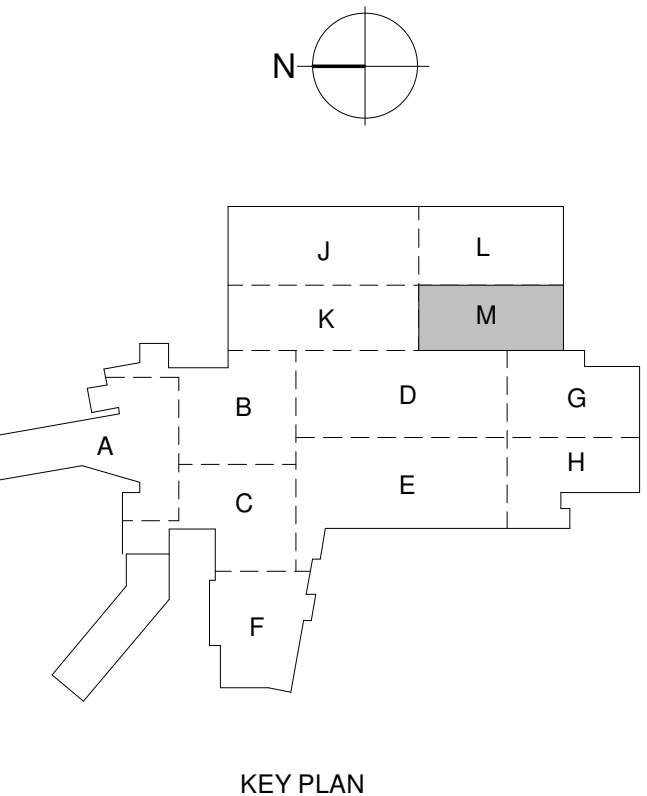
1 HVAC - LEVEL G4 - AREA M
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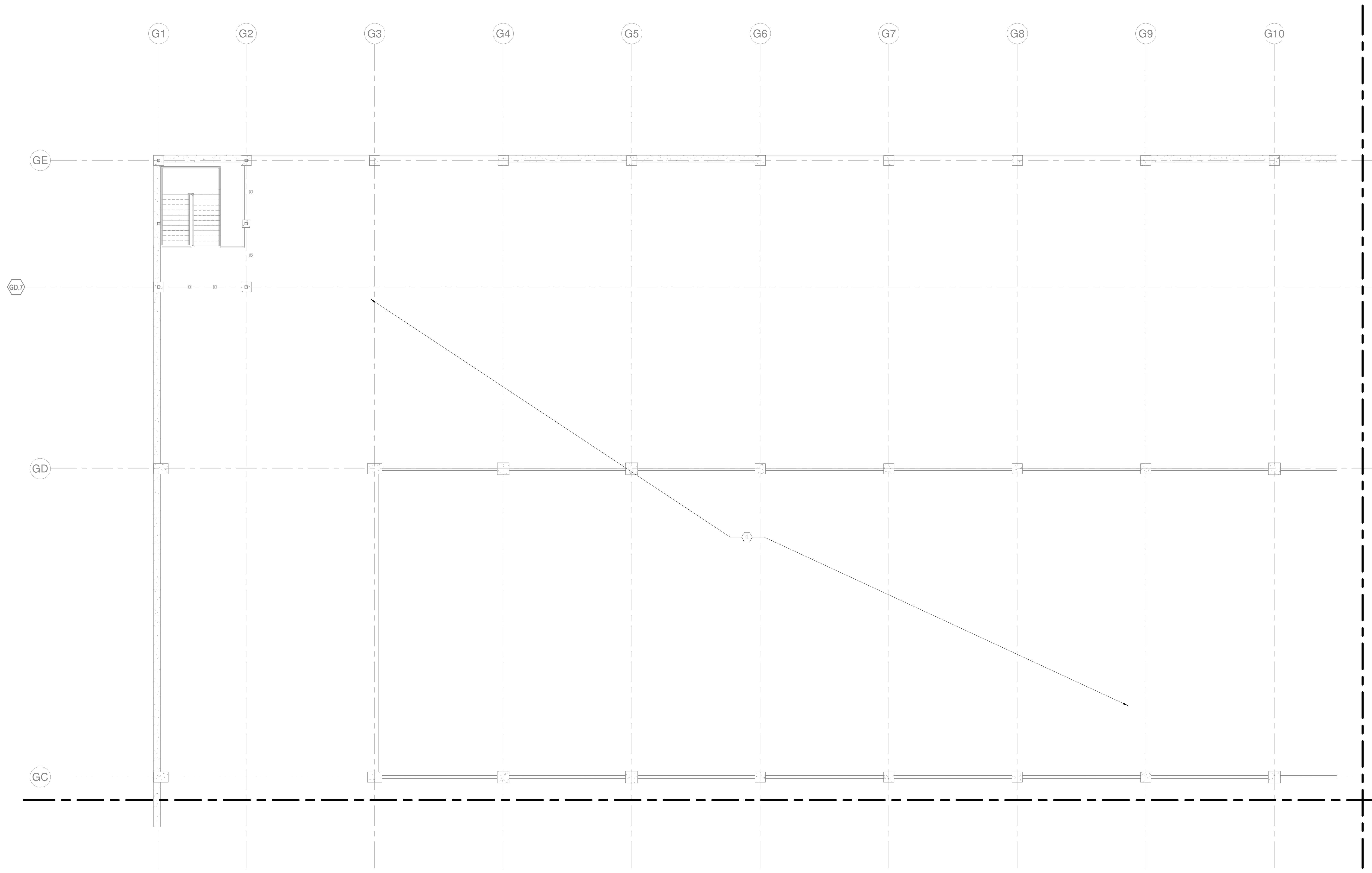


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HVAC - LEVEL G4 - AREA M

M-114M

KEYNOTES:
1. NO HVAC WORK IN THIS AREA OF THE GARAGE.

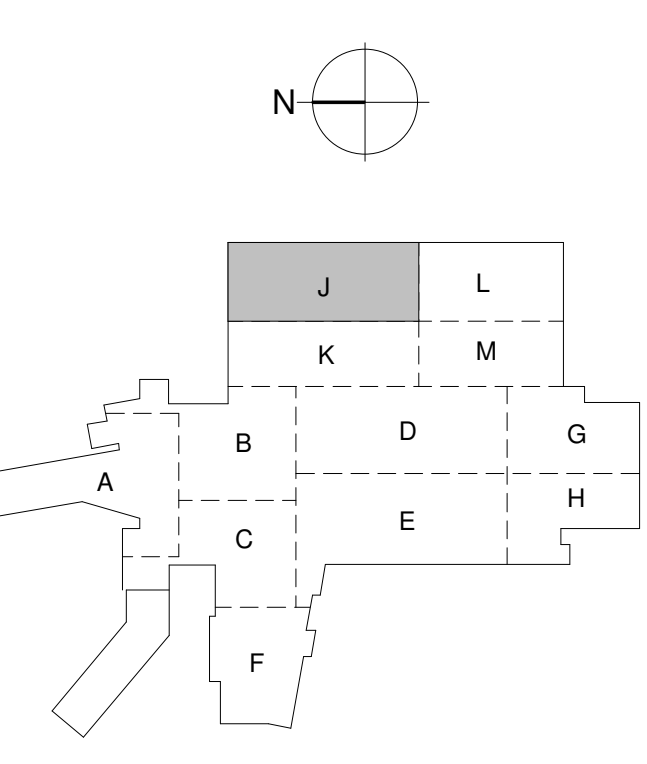


1 HVAC - LEVEL G5 - AREA J
1/8" = 1'-0"

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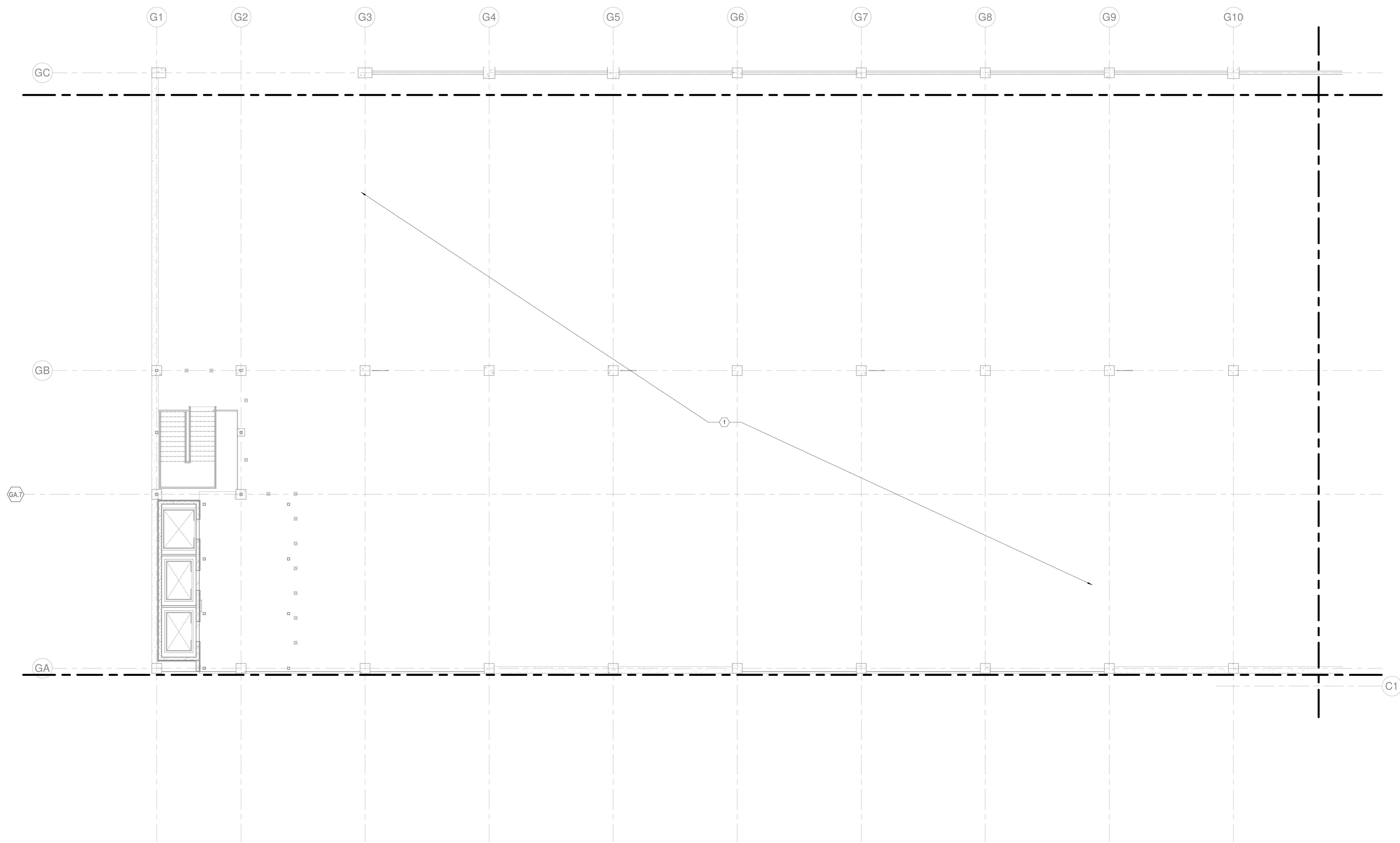
ISSUE	08/16/2022
JOB	30611.00
DRAWN	MWM
SCALE	1/8" = 1'-0"
REVISIONS	

HVAC - LEVEL G5 - AREA J

M-115J

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KEYNOTES:
1. NO HVAC WORK IN THIS AREA OF THE GARAGE.



1 HVAC - LEVEL G5 - AREA K
1/8" = 1'-0"

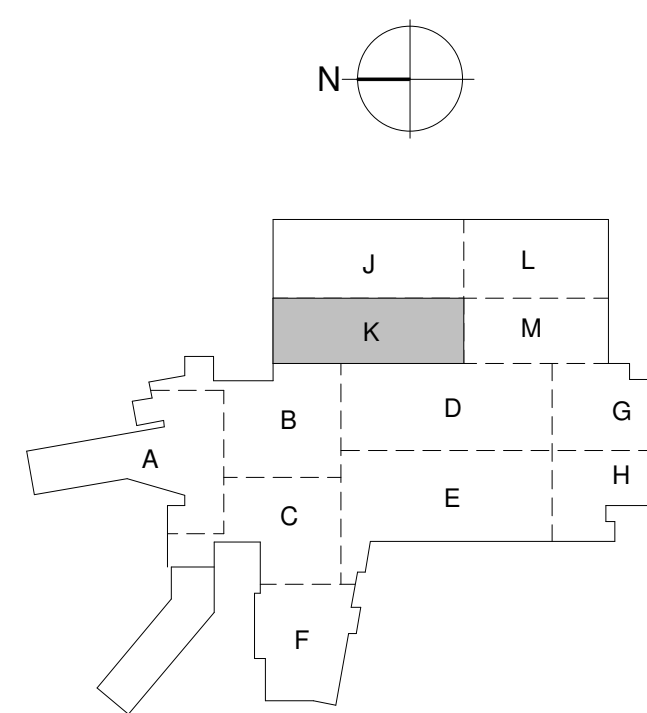
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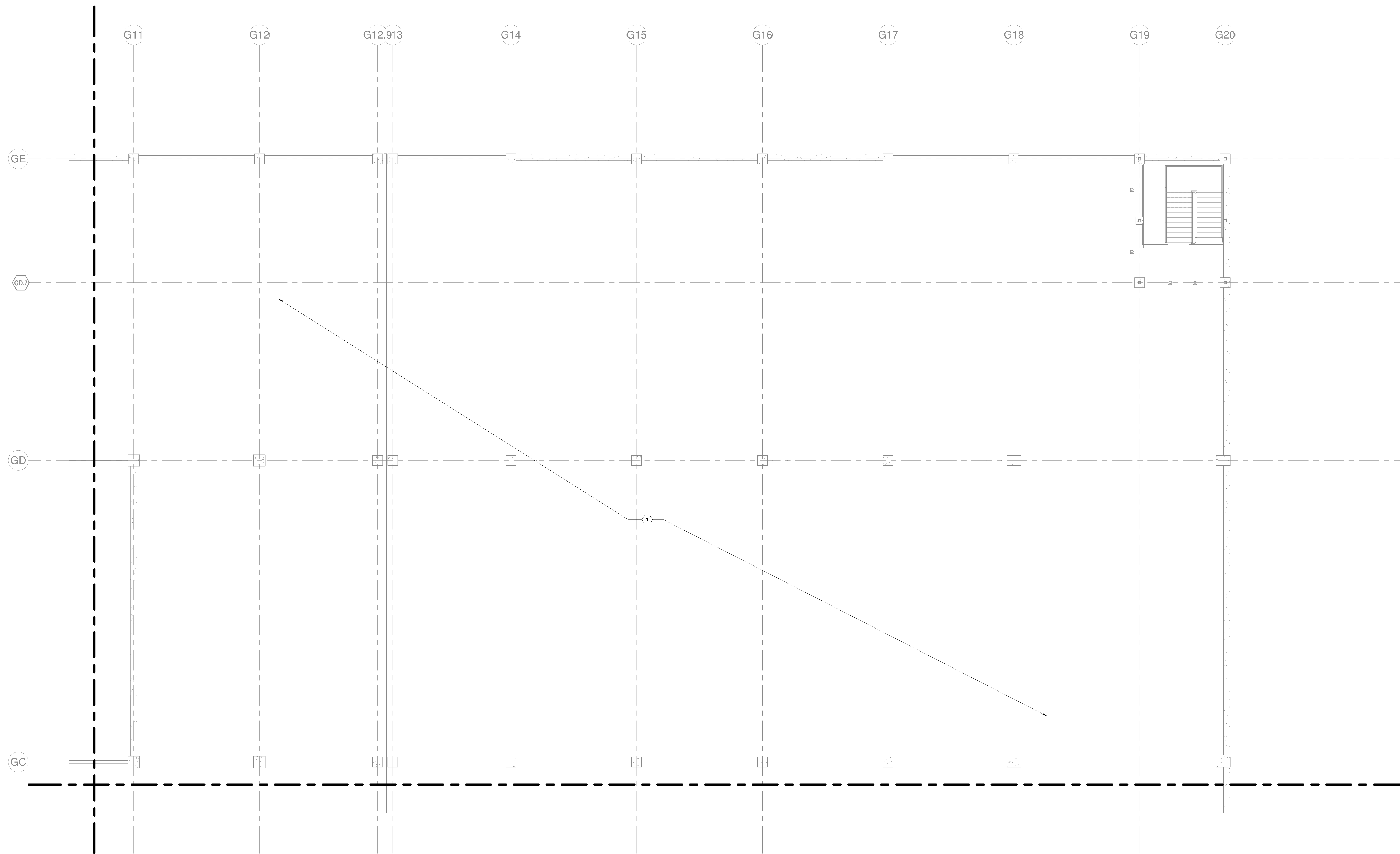


ISSUE 08/16/2022
 JOB 30611.00
 DRAWN MWM
 SCALE 1/8" = 1'-0"
 REVISIONS

HVAC - LEVEL G5 - AREA K

M-115K

KEYNOTES:
1. NO HVAC WORK IN THIS AREA OF THE GARAGE.



1 HVAC - LEVEL G5 - AREA L
1/8" = 1'-0"

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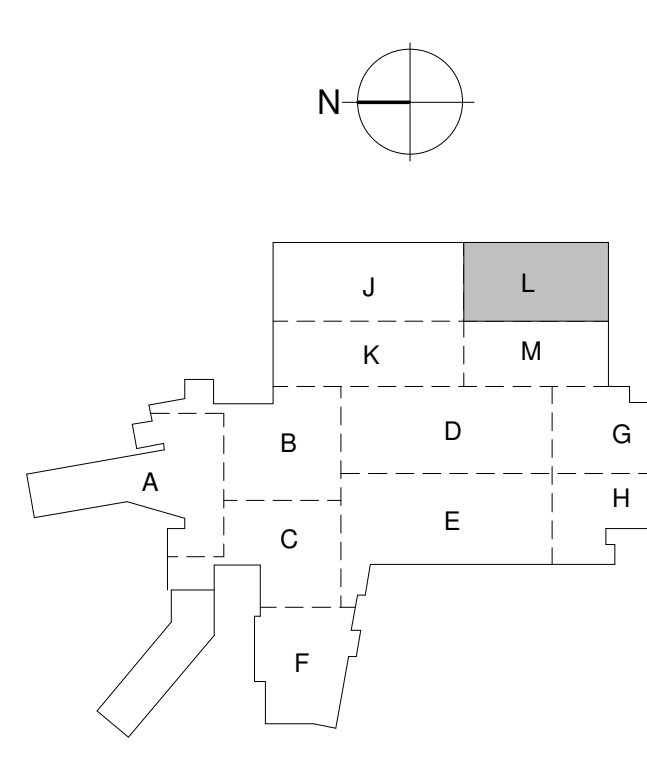
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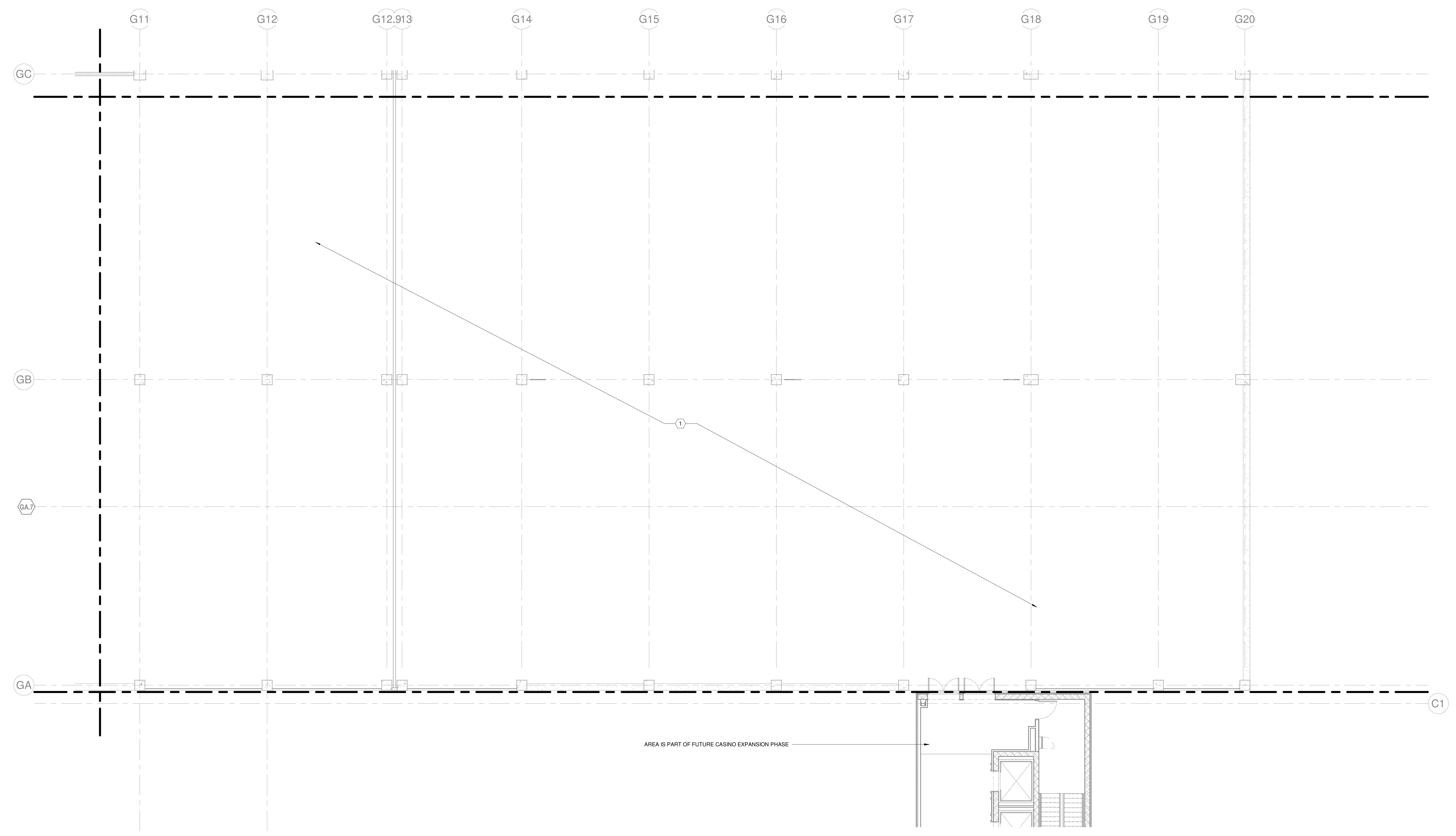


ISSUE	08/16/2022
JOB	30611.00
DRAWN	MWM
SCALE	1/8" = 1'-0"
REVISIONS	

HVAC - LEVEL G5 - AREA L

M-115L

KEYNOTES:
1. NO HVAC WORK IN THIS AREA OF THE GARAGE.

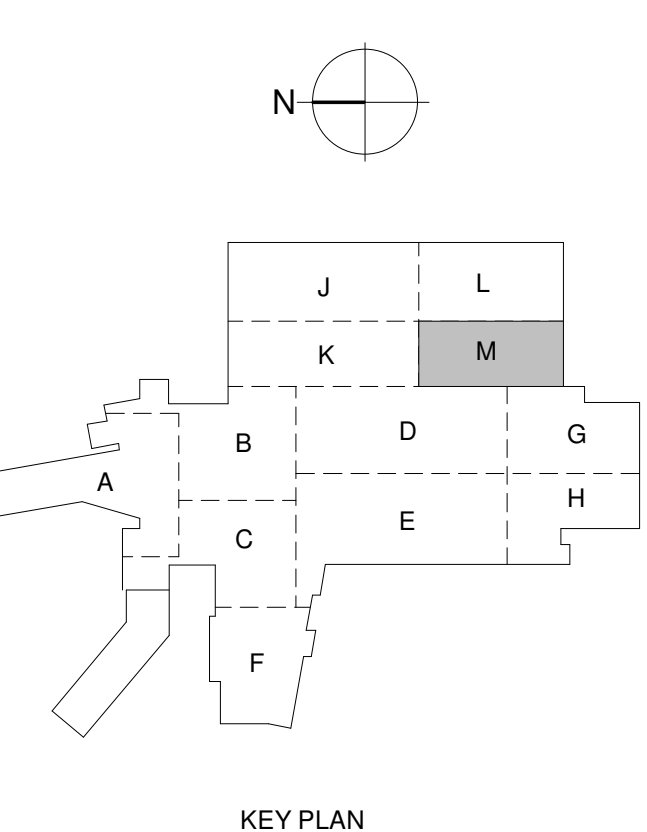


1 HVAC - LEVEL G5 - AREA M
1/8" = 1'-0"

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HVAC - LEVEL G5 - AREA M

M-115M

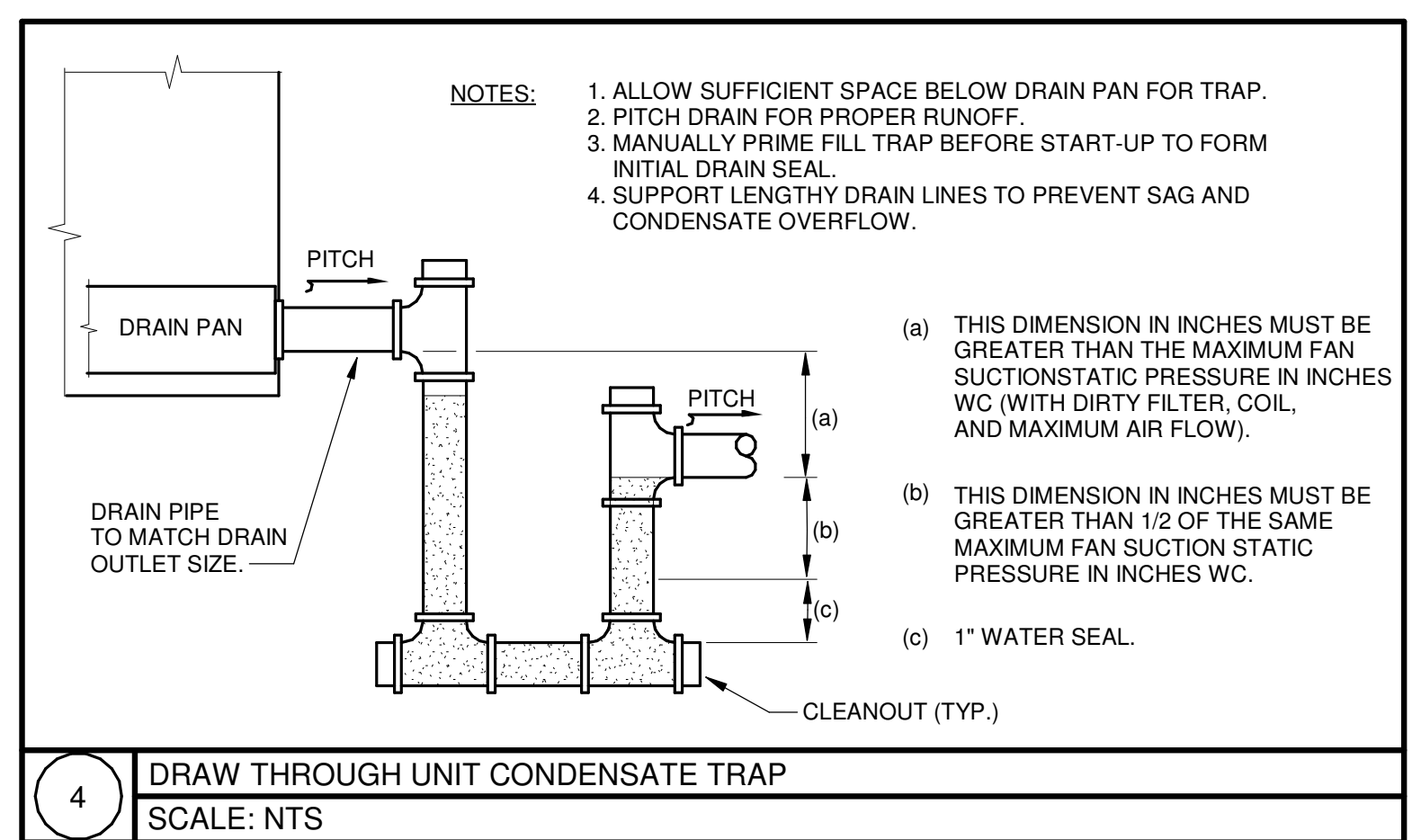
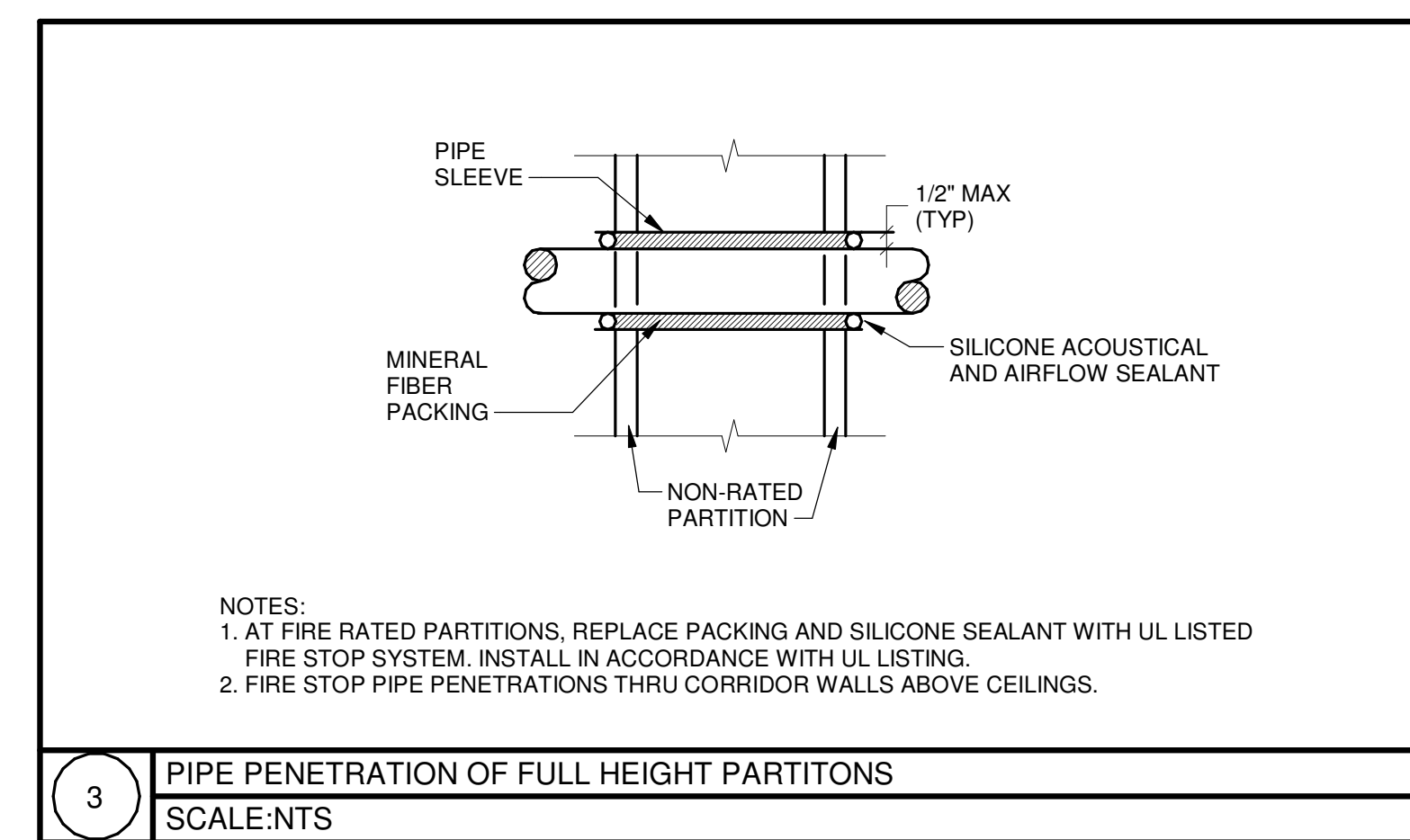
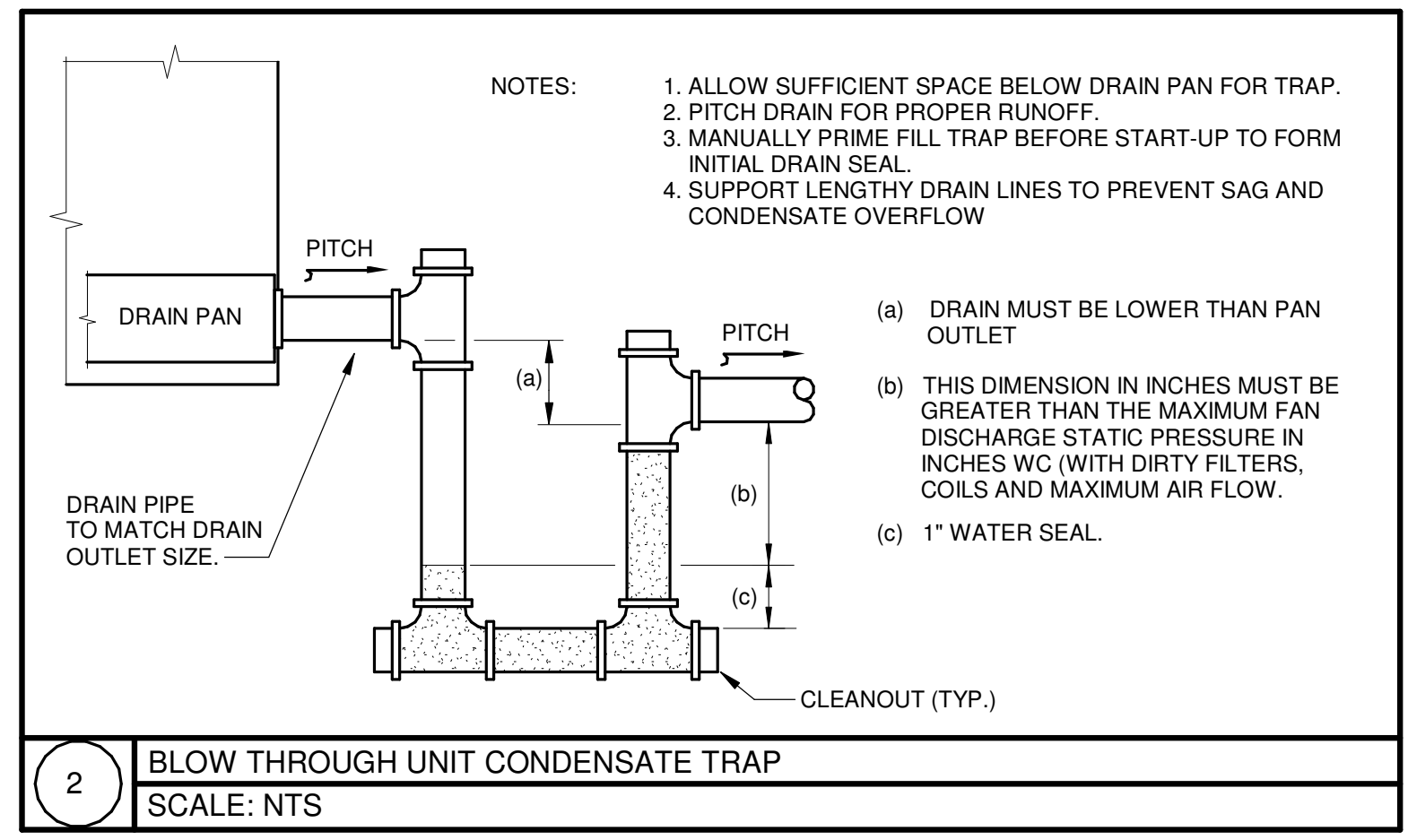
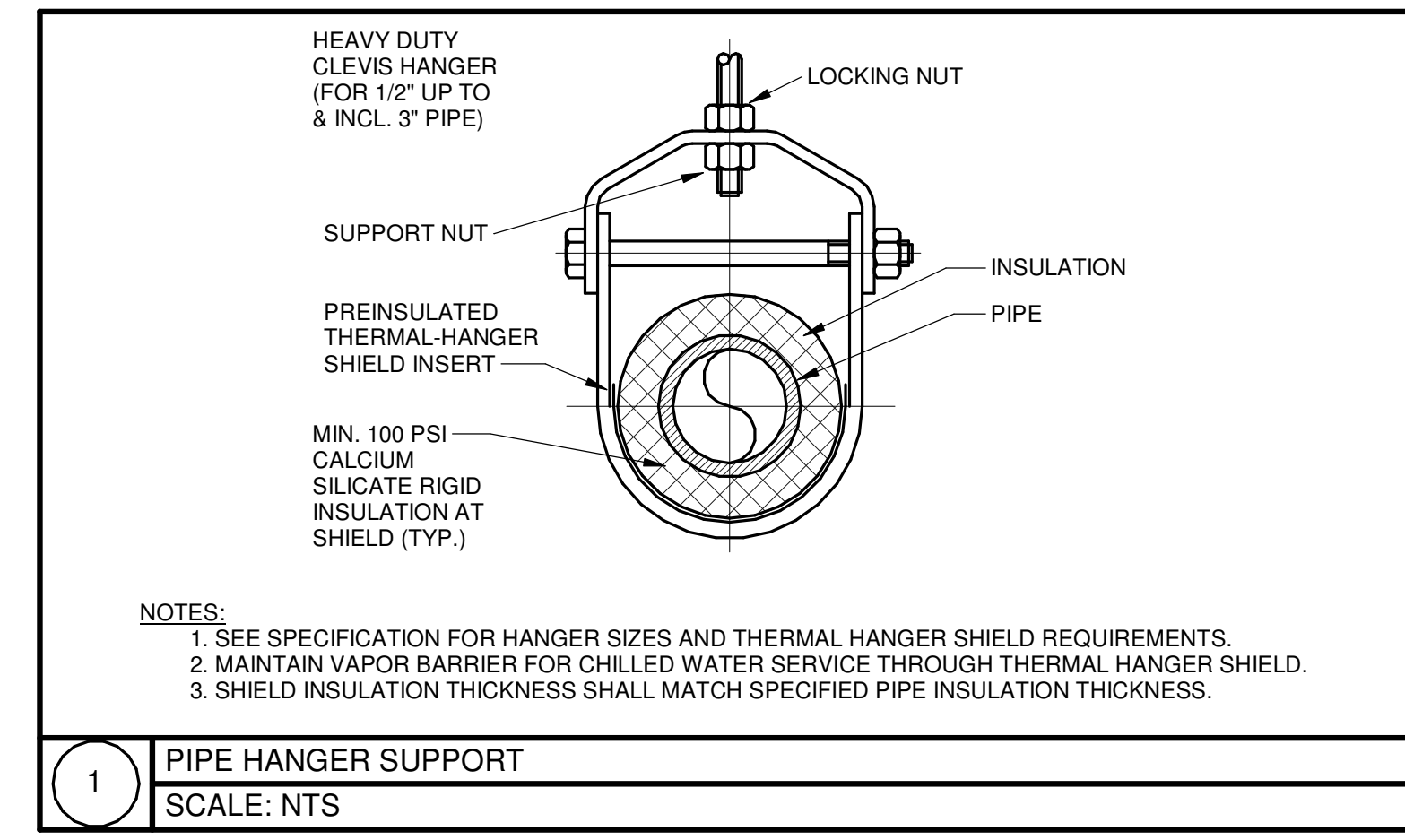
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 PROJECT: 2022-1214 - PARKING GARAGE VE
 SHEET: G1 - HVAC SCHEDULES AND DETAILS - GARAGE
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 DRAWN: MWM
 CHECKED: MWM
 DATE: 01/31/2023
 PROJECT: 2022-1214 - PARKING GARAGE VE
 SHEET: G1 - HVAC SCHEDULES AND DETAILS - GARAGE

HVAC - DX SPLIT SYSTEM UNIT - GARAGE

- REMARKS:
- INDOOR UNIT AND OUTDOOR UNIT SHALL BE THE SAME MANUFACTURER
 - OUTDOOR UNIT POWER SUPPLY FEEDS INDOOR UNIT.
 - COORDINATE MOUNTING OF INDOOR UNIT WITH ARCHITECT.
 - PROVIDE COMPLETE REFRIGERATION SYSTEM SIZED AND INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. REFRIGERATION SYSTEM SHALL INCLUDE BUT IS NOT LIMITED TO SIGHT GLASS / MOISTURE INDICATOR, FILTER-DRIER, EXPANSION VALVES AND LIQUID RECEIVER.
 - PROVIDE STARTER / DISCONNECT FOR BOTH UNITS.
 - PROVIDE WITH LOW AMBIENT KIT.
 - PROVIDE WALL MOUNTED CONTROLLER BY UNIT MANUFACTURER.
 - OUTDOOR UNIT SHALL BE WALL MOUNTED. PROVIDE WITH MANUFACTURER'S WALL MOUNT BRACKET.

UNIT NUMBER	LOCATION	TYPE	INDOOR UNIT						OUTDOOR UNIT				ELECTRICAL DATA (AS STANDARD)						REMARKS				
			COOLING DATA			HEATING DATA			UNIT NUMBER	NOMINAL TONNAGE	SEER	WEIGHT (LBS.)	V	P	H	MCA	MOCP	MANUFACTURER		MODEL			
			TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	REFRIG TYPE	EAT (DEG F) DB	WB	DB													TOTAL CAPACITY (MBH)	EAT (DEG F)	AIRFLOW (CFM)
FCU-G01	2K04 - IDF	DUCTLESS	18.0	13.2	R410A	80	67	95	22.0	60	455	CJ-G01	1.5	19.8	100	208	1	60	12	15	DAIKIN	TKPAG018 / TRUZAD18	1 - 8
FCU-G02	2K02 - ELEC	DUCTLESS	18.0	13.2	R410A	80	67	95	22.0	60	455	CJ-G02	1.5	21	100	208	1	60	12	15	DAIKIN	TKPAG018 / TRUZAD18	1 - 8
FCU-G02A	2K03 - ELEC	DUCTLESS	12.0	10.6	R410A	80	67	95	14.0	60	455	CJ-G02A	1	21	93	208	1	60	12	15	DAIKIN	TKPAG012 / TRUZAD12	1 - 8
FCU-G03	2M01 - ELEC	DUCTLESS	18.0	13.2	R410A	80	67	95	22.0	60	455	CJ-G03	1.5	19.8	100	208	1	60	12	15	DAIKIN	TKPAG018 / TRUZAD18	1 - 8
FCU-G03A	2M02 - ELEC	DUCTLESS	12.0	10.6	R410A	80	67	95	14.0	60	455	CJ-G03A	1	21.0	93	208	1	60	12	15	DAIKIN	TKPAG012 / TRUZAD12	1 - 8
FCU-G04	2M03 - IDF	DUCTLESS	18.0	13.2	R410A	80	67	95	22.0	60	455	CJ-G04	1.5	19.8	100	208	1	60	12	15	DAIKIN	TKPAG018 / TRUZAD18	1 - 8
FCU-G05	4K03 - IDF	DUCTLESS	18.0	13.2	R410A	80	67	95	22.0	60	455	CJ-G05	1.5	19.8	100	208	1	60	12	15	DAIKIN	TKPAG018 / TRUZAD18	1 - 8
FCU-G06	4K02 - ELEC	DUCTLESS	12.0	10.6	R410A	80	67	95	14.0	60	455	CJ-G06	1	21	93	208	1	60	12	15	DAIKIN	TKPAG012 / TRUZAD12	1 - 8
FCU-G07	4M01 - ELEC	DUCTLESS	12.0	10.6	R410A	80	67	95	14.0	60	455	CJ-G07	1	21.0	93	208	1	60	12	15	DAIKIN	TKPAG012 / TRUZAD12	1 - 8
FCU-G08	4M02 - IDF	DUCTLESS	18.0	13.2	R410A	80	67	95	22.0	60	455	CJ-G08	1.5	19.8	100	208	1	60	12	15	DAIKIN	TKPAG018 / TRUZAD18	1 - 8
FCU-G09	1K02A - ELEV CNTRL	DUCTLESS	24.0	18.5	R410A	80	67	95	28.0	60	775	CJ-G09	2	21.4	193	208	1	60	20	25	DAIKIN	TKPAG024 / TRUZAD24	1 - 8
FCU-G10	2M04 - ELEV CNTRL	DUCTLESS	24.0	18.5	R410A	80	67	95	28.0	60	775	CJ-G10	2	21.4	193	208	1	60	20	25	DAIKIN	TKPAG024 / TRUZAD24	1 - 8



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G1 2022-1214 PARKING GARAGE VE

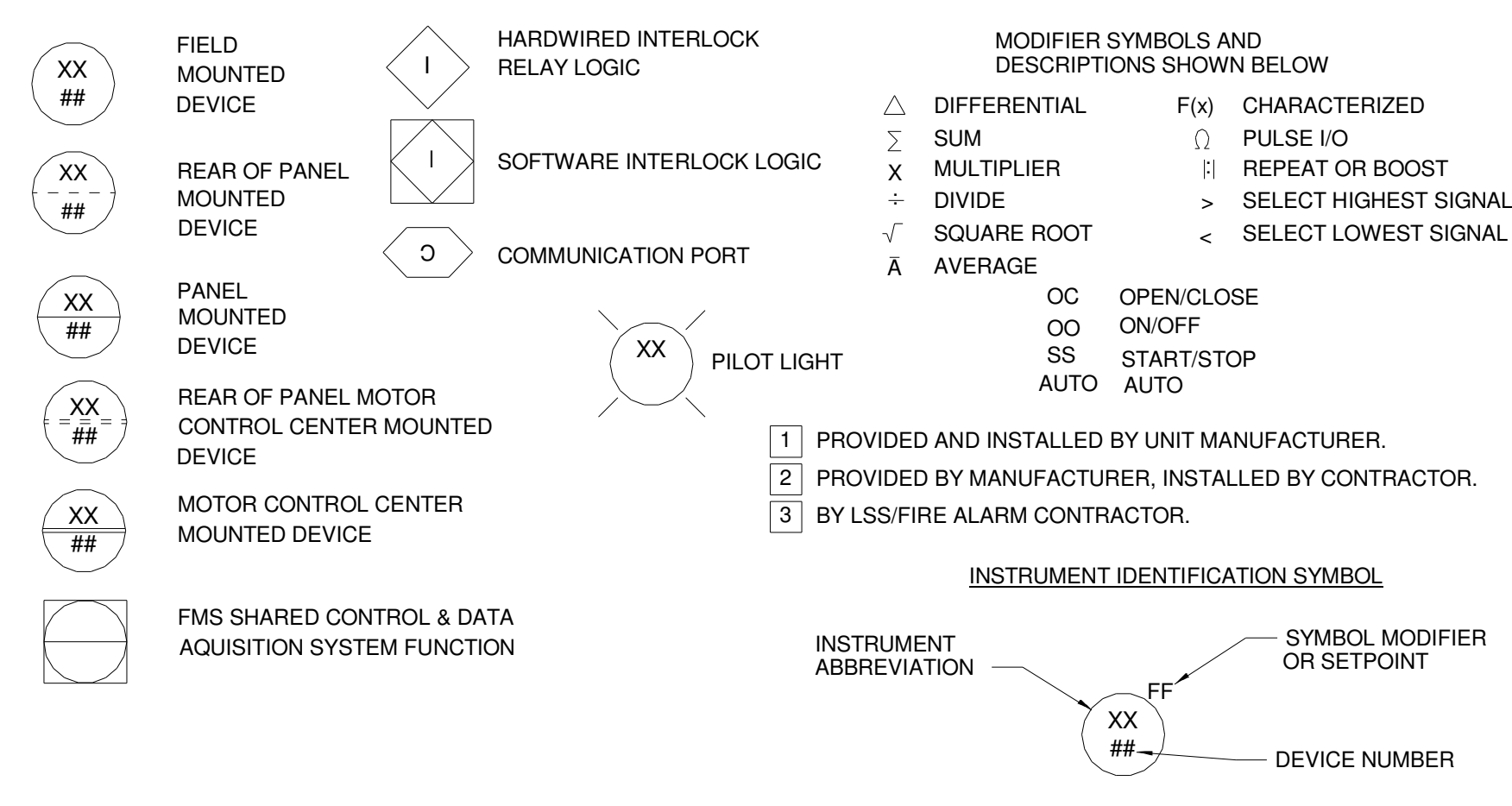
HVAC SCHEDULES AND DETAILS - GARAGE

M-600

INSTRUMENT IDENTIFICATION LETTERS				
FIRST LETTER(S)		SUCCEEDING LETTERS		
PROCESS OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A ANALYSIS		ALARM		
B BURNER FLAME		USERS CHOICE(*)	USERS CHOICE(*)	USERS CHOICE(*)
C CARBON DIOXIDE			CONTROL	
D DENSITY (S.G.)/DEWPOINT	DIFFERENTIAL		DAMPER	
E VOLTAGE		SENSOR (PRIMARY ELEMENT)		
F FLOW RATE	RATIO			
G GAUGE		GLASS	GATE	
H HAND (MANUAL)				HIGH
I CURRENT		INDICATE		
J POWER	SCAN			
K TIME OR SCHEDULE	RATE OF CHANGE		CONTROL STATION	
L LEVEL		LIGHT (PILOT)		LOW
M MOTION/MOISTURE	MOMENTARY			
N DIAL VOLATILE OR GAME COMPUTER		USERS CHOICE(*)	USERS CHOICE(*)	USERS CHOICE(*)
O OXYGEN		OXYGEN		
P PRESSURE (OR VACUUM)		POINT (TEST CONNECTION)		
Q QUANTITY (OR EVENT*)	INTEGRATE			
R RADIATION		RECORD OR PRINT		
S SPEED OR FREQUENCY	SAFETY		SWITCH	
T TEMPERATURE			TRANSMIT	
U MULTIVARIABLE(*)		MULTIFUNCTION(*)	MULTIFUNCTION(*)	MULTIFUNCTION(*)
V VIBRATION, MECH ANALYSIS			VALVE	
W WEIGHT OR FORCE		WELL		
X CARBON MONOXIDE		UNCLASSIFIED(*)	TRANSFORMER	UNCLASSIFIED(*)
Y EVENT (STATUS)			RELAY OR COMPUTER*	
Z POSITION, DIMENSION			DRIVER, ACTUATOR OR UNCLASSIFIED FINAL CONTROL ELEMENT	

(*) WHEN USED, EXPLANATION IS SHOWN ADJACENT TO INSTRUMENT SYMBOL. SEE ABBREVIATIONS AND LETTER SYMBOLS. EXAMPLE: PT=PRESSURE TRANSMITTER, HS=HAND SWITCH

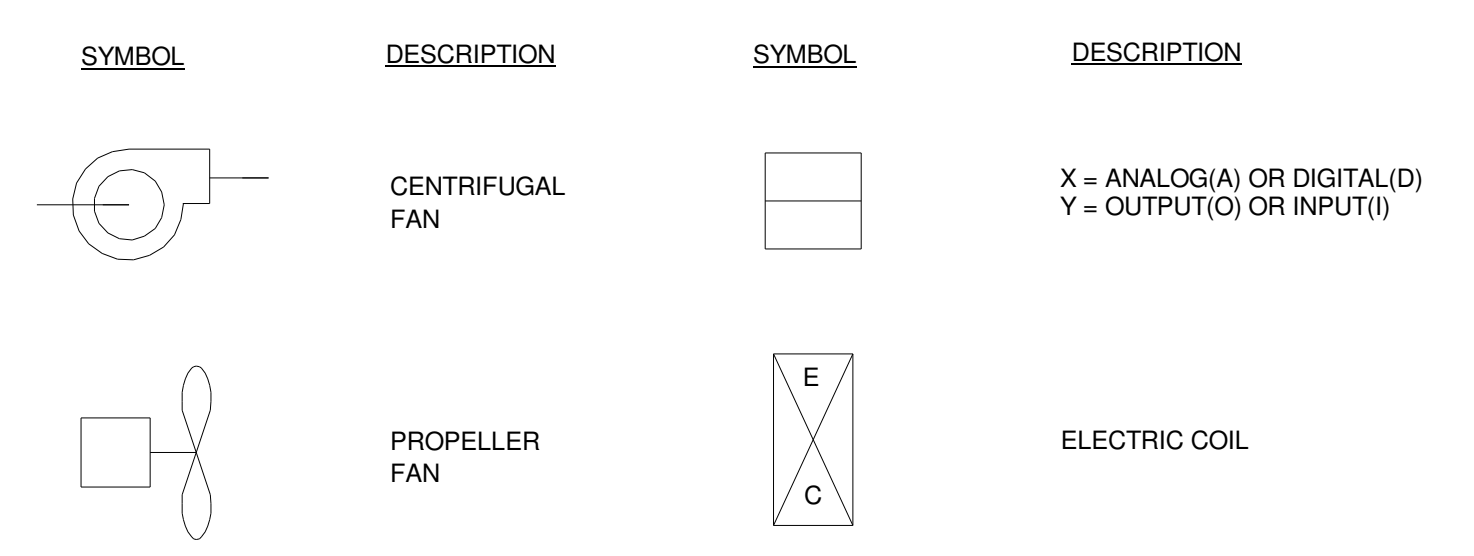
GENERAL INSTRUMENT / FUNCTION SYMBOLS



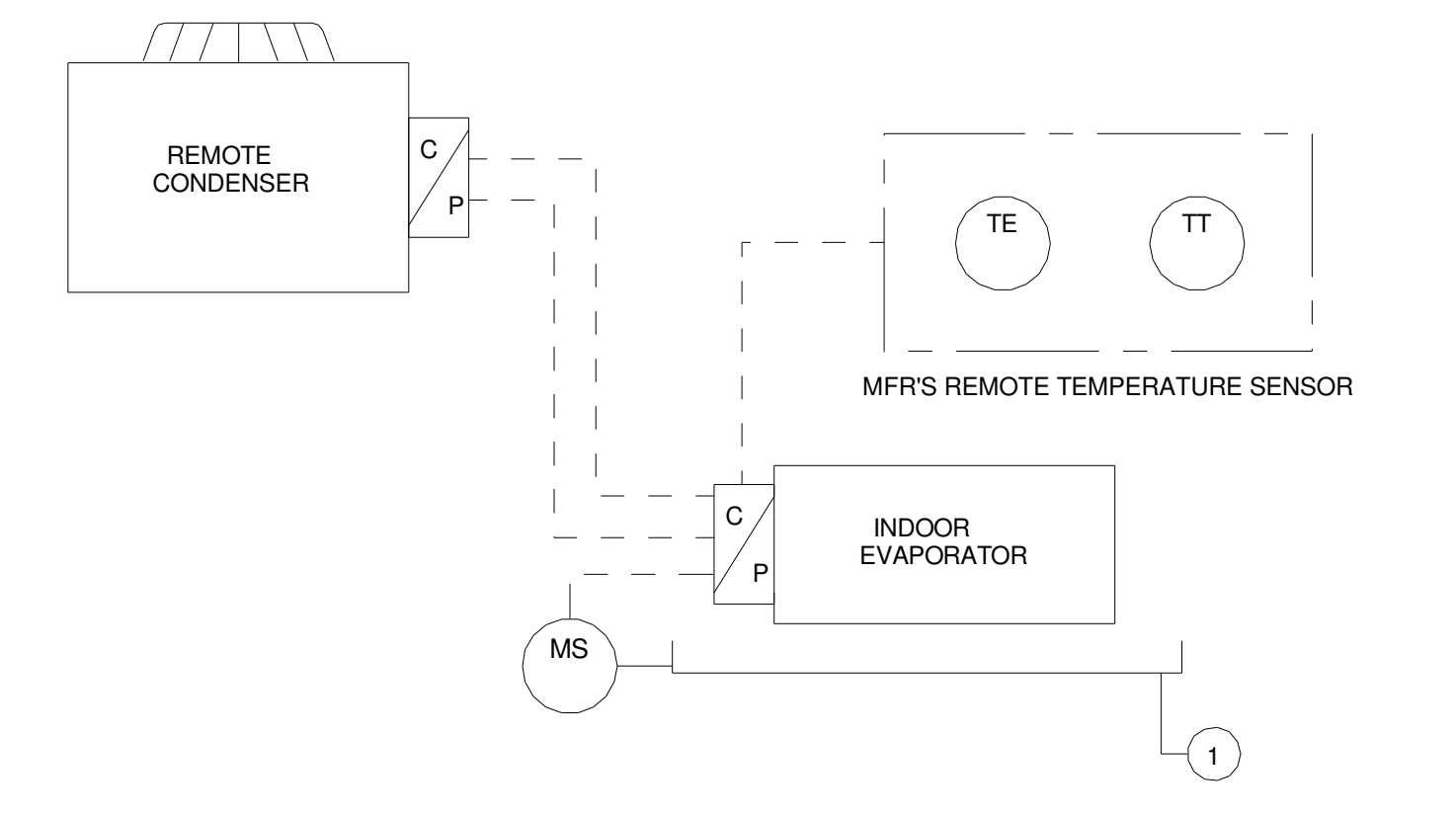
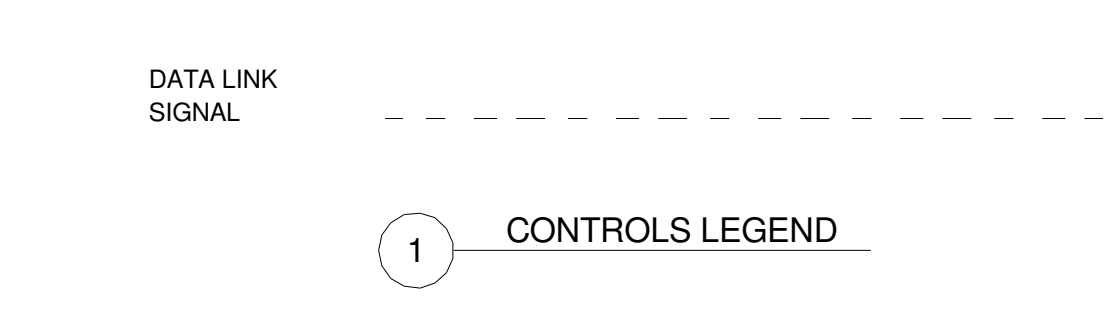
SEQUENCE OF CONTROLS - GENERAL

- SEQUENCES OUTLINED (UNLESS OTHERWISE SPECIFIED) SHALL BE STANDALONE CONTROLS FOR EACH INDIVIDUAL PIECE OF EQUIPMENT.
- UNLESS NOTED OTHERWISE THE FOLLOWING SHALL BE THE SPACE TEMPERATURE SETPOINTS:
 - ELEC:
 - COOLING: 80 DEGREES F (ADJ.)
 - HEATING: 60 DEGREES F (ADJ.)
 - IDF:
 - COOLING: 70 DEGREES F (ADJ.)
 - HEATING: 60 DEGREES F (ADJ.)

EQUIPMENT SYMBOLS



PIPING AND CONNECTIONS



- KEY NOTES:
- ALL COOLING COILS ARE PROVIDED WITH AN OVERFLOW SWITCH. DETECTION OF WATER (MS-1) SHOULD DE-ENERGIZE UNIT.
- SEQUENCE OF OPERATIONS
- A. GENERAL
- THE AC UNITS SHALL BE CONTROLLED BY THE PACKAGED CONTROL SYSTEM PROVIDED BY THE AC UNIT MANUFACTURER.
 - THE AC UNITS SHALL OPERATE 24 / 7 AND SHALL MODULATE TO MAINTAIN THE COOLING/HEATING SETPOINT.
 - TEMPERATURE SETTINGS SHALL BE AS NOTED IN THE GENERAL NOTES.

1 SPLIT AC UNIT CONTROLS CONTROL DIAGRAM & SEQUENCE

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G1	2022-1214 PARKING GARAGE VE

HVAC CONTROLS - GARAGE

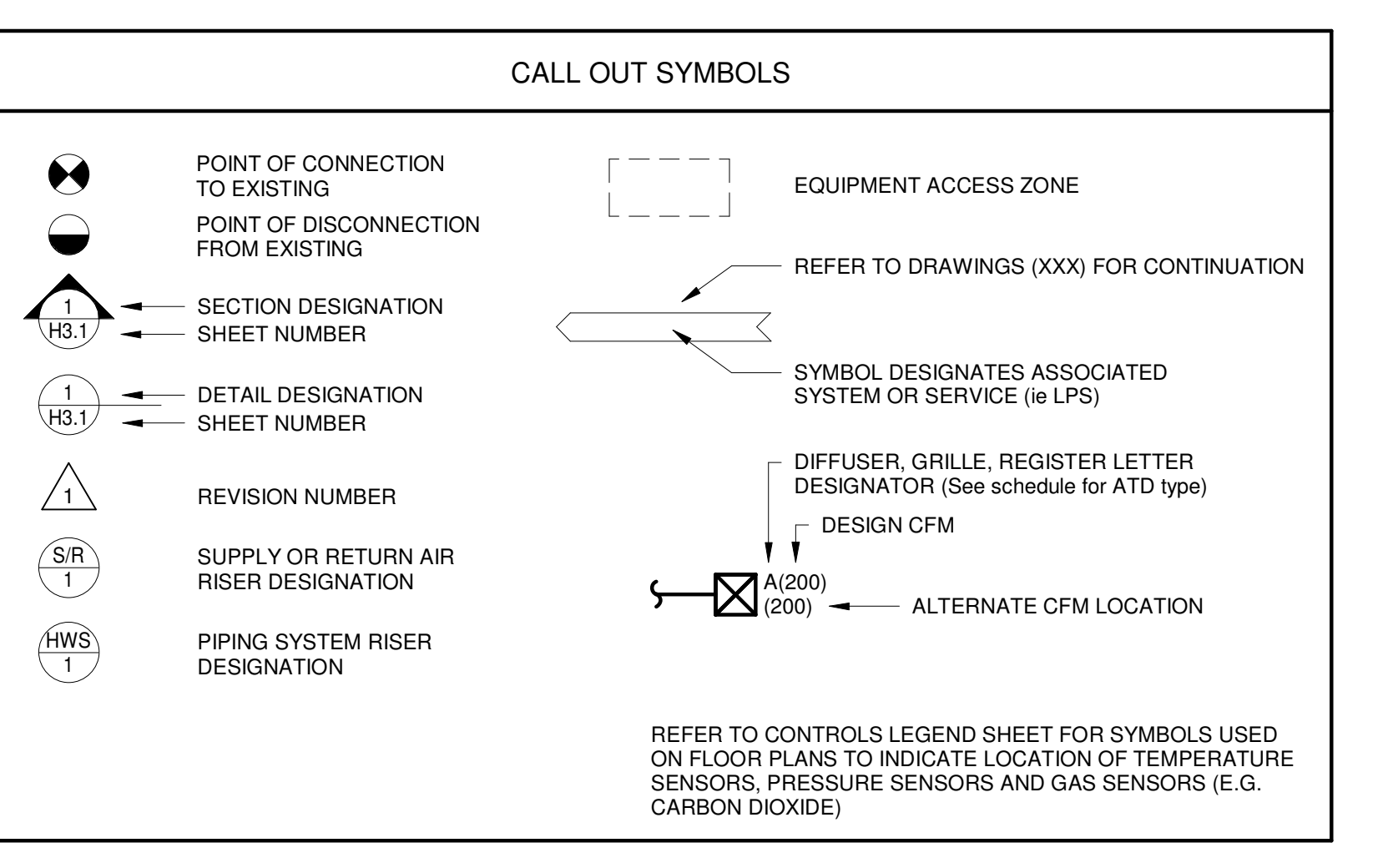
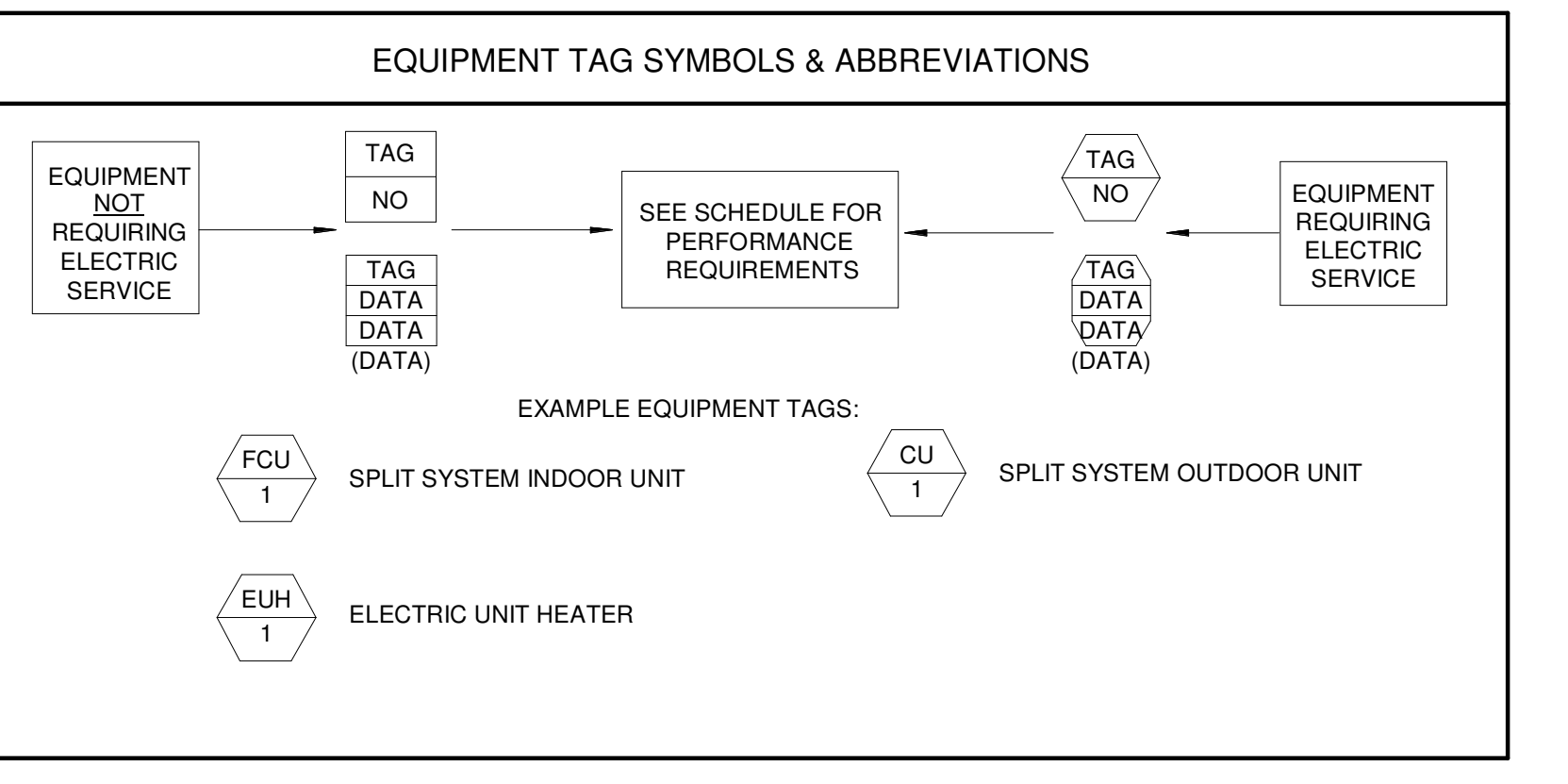
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 Plot Scale: 1:1
 Plot Range: Extents
 Plot Orientation: Landscape
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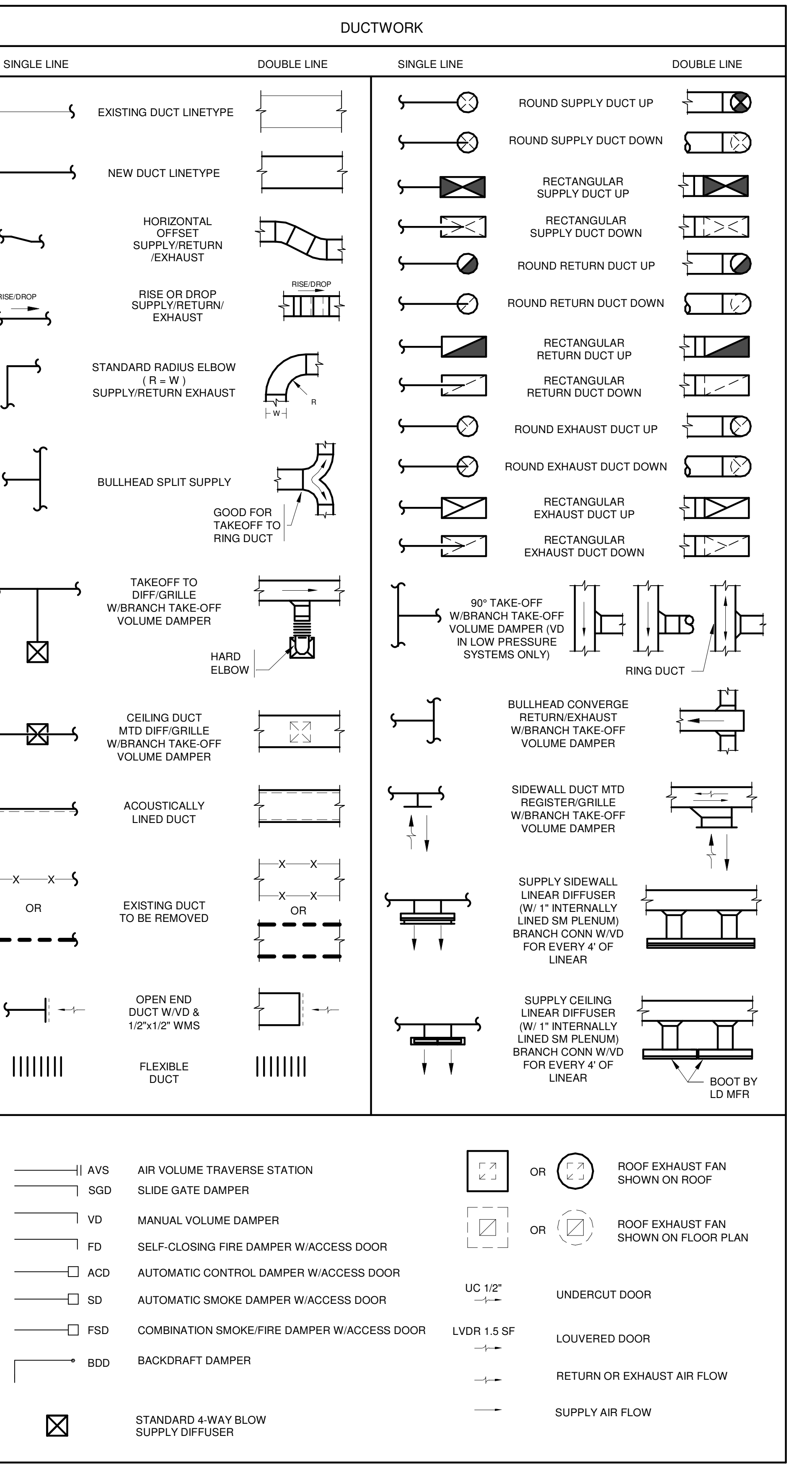


Table with 4 columns: Abbreviation, Description, Abbreviation, Description. Includes categories like GENERIC HVAC ABBREVIATIONS, PIPING SYSTEM SPECIFIC NOTES, and AIR SYSTEM SPECIFIC NOTES.

Table with 2 columns: Section Header, Content. Includes HVAC GENERAL NOTES (1-13), AIR SYSTEM SPECIFIC NOTES (1-11), and PIPING SYSTEM SPECIFIC NOTES (1-6).



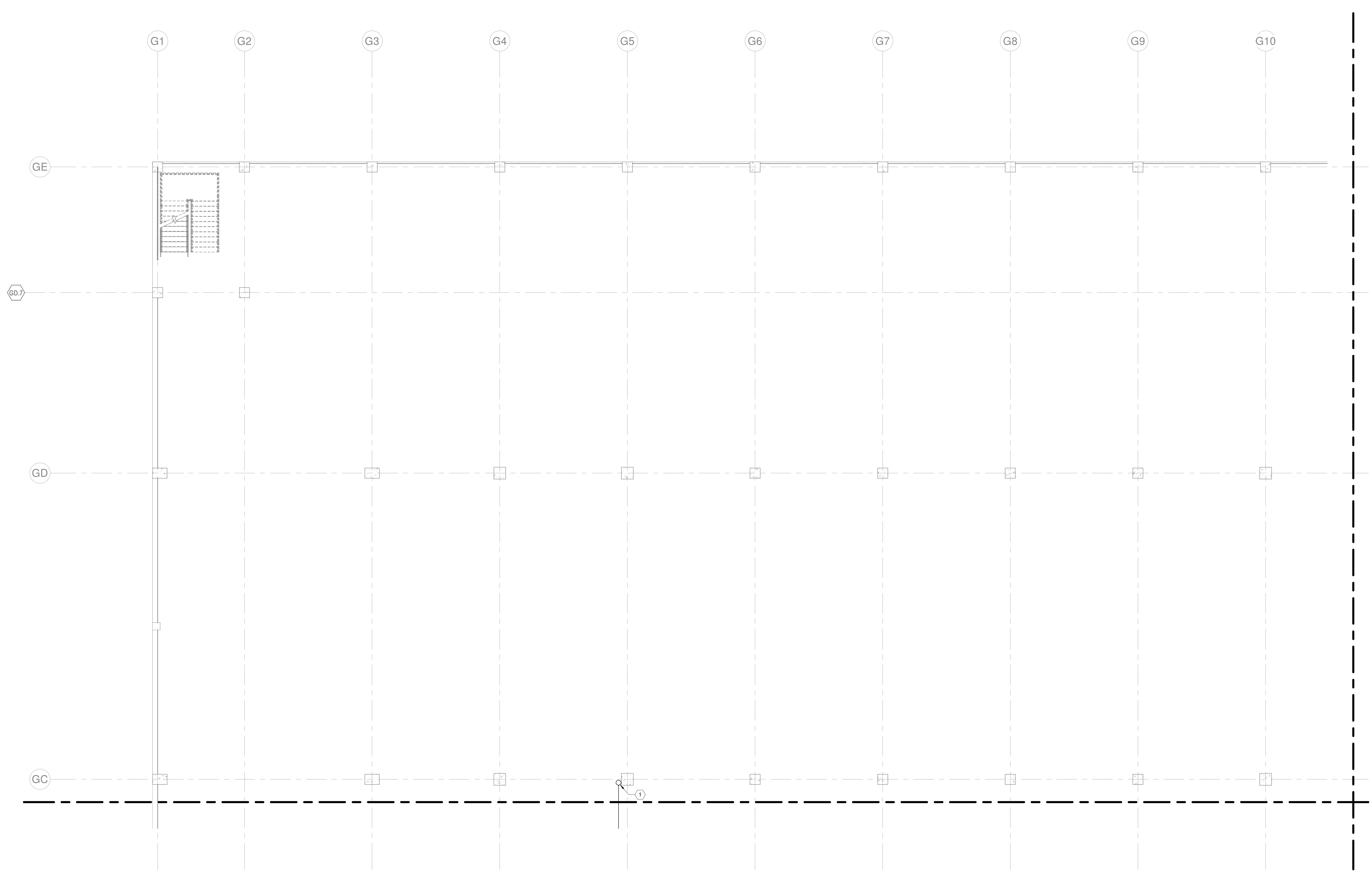
2018 APPENDIX B - MECHANICAL DESIGN table listing thermal zones, interior design conditions, utility conditions, and building heating/cooling loads.



VERTICAL SCALE: 1" = 8'-0" HORIZONTAL SCALE: 1" = 16'-0" DATE: 01/31/2023 11:55:04 AM

15/03/2023 11:52:09 AM [REDACTED]

- HVAC GENERAL NOTES:**
1. SLOPE CONDENSATE A MINIMUM OF 1/8" PER LINEAR FOOT TOWARD DRAIN. CONDENSATE ROUTED ACROSS GARAGE SHALL BE INSTALLED ABOVE THE BOTTOM OF BEAM ELEVATION.
 2. PROVIDE CLEANOUT AT CHANGES IN DIRECTION OF CONDENSATE PIPING.
 3. AVOID ROUTING CONDENSATE PIPING DIRECTLY ABOVE ELECTRICAL EQUIPMENT WHERE CONDENSATE MUST BE INSTALLED ABOVE ELECTRICAL EQUIPMENT PROVIDE DRIP PAN BENEATH PIPING.
 4. PIPE GUARDS SHALL BE PROVIDED FOR EXPOSED VERTICAL PIPING. SEE ARCHITECTURAL DRAWINGS FOR REQUIREMENTS.
- KEYNOTES:**
1. 1" CD DOWN FROM FLOOR ABOVE.



1 HVAC - LEVEL G1 - AREA J
1/8" = 1'-0"

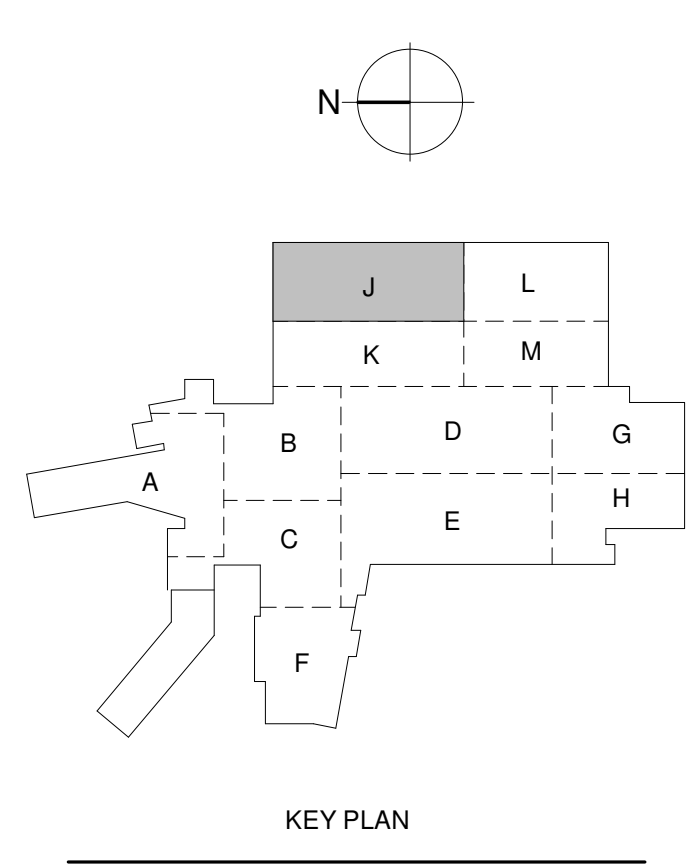
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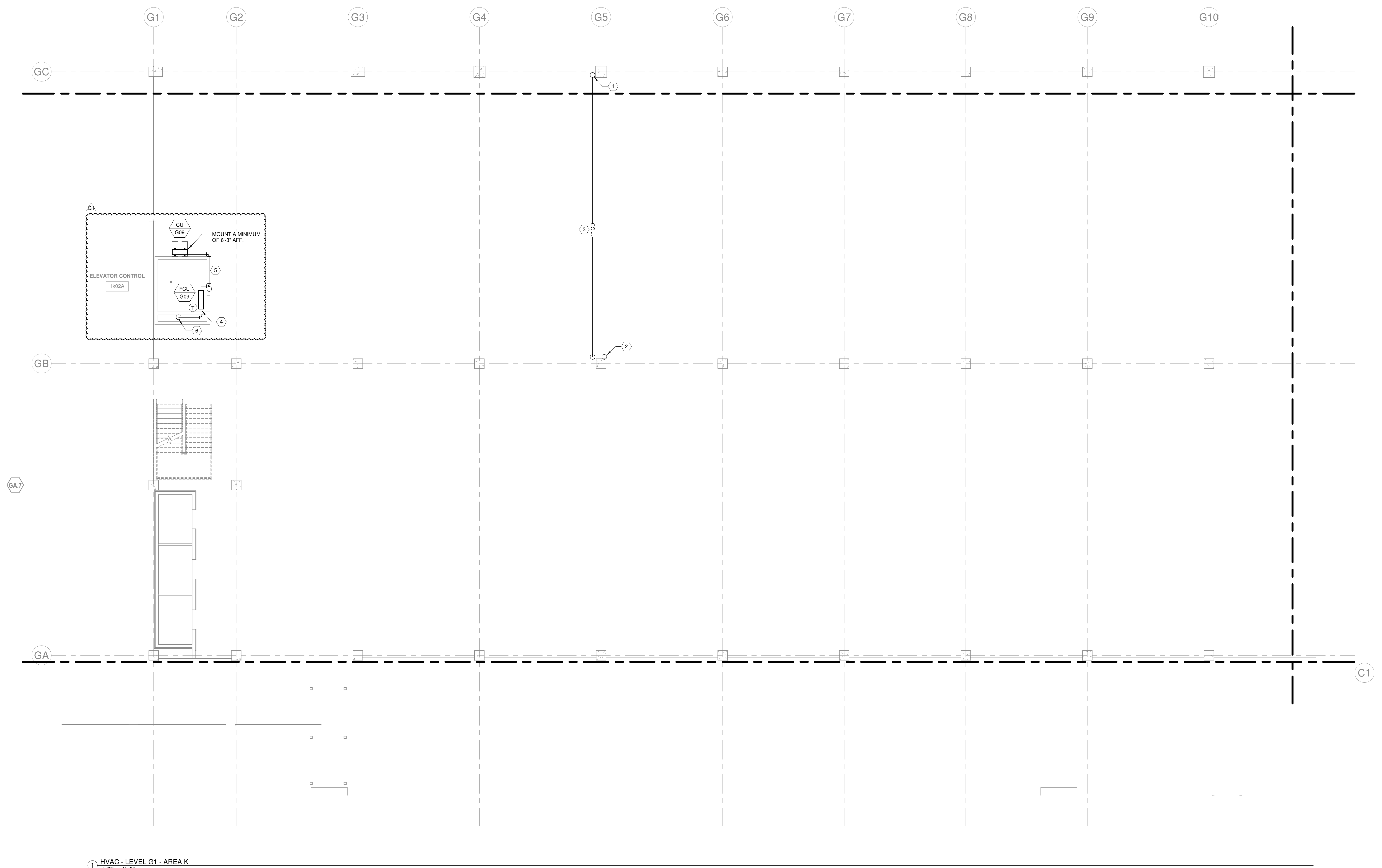
ISSUE	08/16/2022
JOB	30611.00
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SCALE	As indicated
REVISIONS	

HVAC - LEVEL G1 - AREA J

M-111J

DATE PLOTTED: 1/30/2023 11:15:15 AM
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PROJECT: 2022-1214 - PARKING GARAGE VE
SHEET: M-111K
SCALE: AS SHOWN
TITLED: HVAC - LEVEL G1 - AREA K
DATE: 01/31/2023
DRAWN: MWM
SCALE: AS SHOWN
REVISIONS:
G1 2022-1214 - PARKING GARAGE VE

- HVAC GENERAL NOTES:**
1. SLOPE CONDENSATE A MINIMUM OF 1/8" PER LINEAR FOOT TOWARD DRAIN. CONDENSATE ROUTED ACROSS GARAGE SHALL BE INSTALLED ABOVE THE BOTTOM OF BEAM ELEVATION.
 2. PROVIDE CLEANOUT AT CHANGES IN DIRECTION OF CONDENSATE PIPING.
 3. AVOID ROUTING CONDENSATE PIPING DIRECTLY ABOVE ELECTRICAL EQUIPMENT. WHERE CONDENSATE MUST BE INSTALLED ABOVE ELECTRICAL EQUIPMENT PROVIDE DRIP PAN BENEATH PIPING.
 4. PIPE GUARDS SHALL BE PROVIDED FOR EXPOSED VERTICAL PIPING. SEE ARCHITECTURAL DRAWINGS FOR REQUIREMENTS.
- KEYNOTES:**
1. 1" CD DOWN FROM FLOOR ABOVE.
 2. ROUTE 1" CD DOWN ADJACENT TO COLUMN AND DUMP TO DECK 0'-6" AFF NEAR PLUMBING DRAIN. SEE PLUMBING DRAWINGS FOR DRAIN LOCATION.
 3. ROUTE 1" CD ACROSS GARAGE TIGHT TO DECK ABOVE.
 4. CONDENSATE DRAIN PIPING SHALL MATCH UNIT CONNECTION SIZE.
 5. REFRIGERANT LINE SET FROM FAN COIL UNIT TO CONDENSING UNIT. SIZE REFRIGERANT PIPING PER MANUFACTURERS REQUIREMENTS.
 6. ROUTE CONDENSATE DRAIN DOWN TO OPEN ENDED DRAIN. SEE PLUMBING DRAWINGS FOR DRAIN LOCATION.

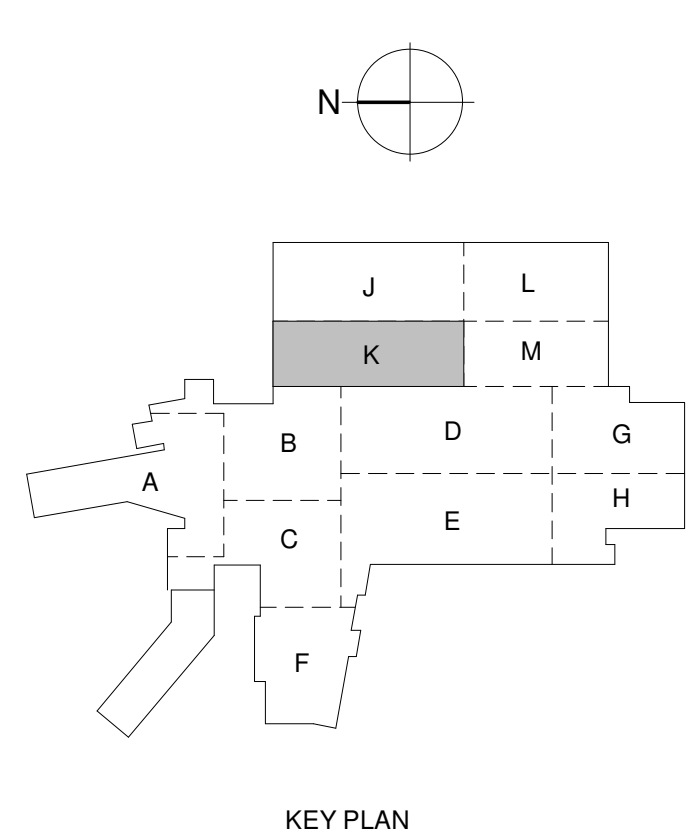


1 HVAC - LEVEL G1 - AREA K
1/8" = 1'-0"

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E.C. Vanderweil Engineers, LLP
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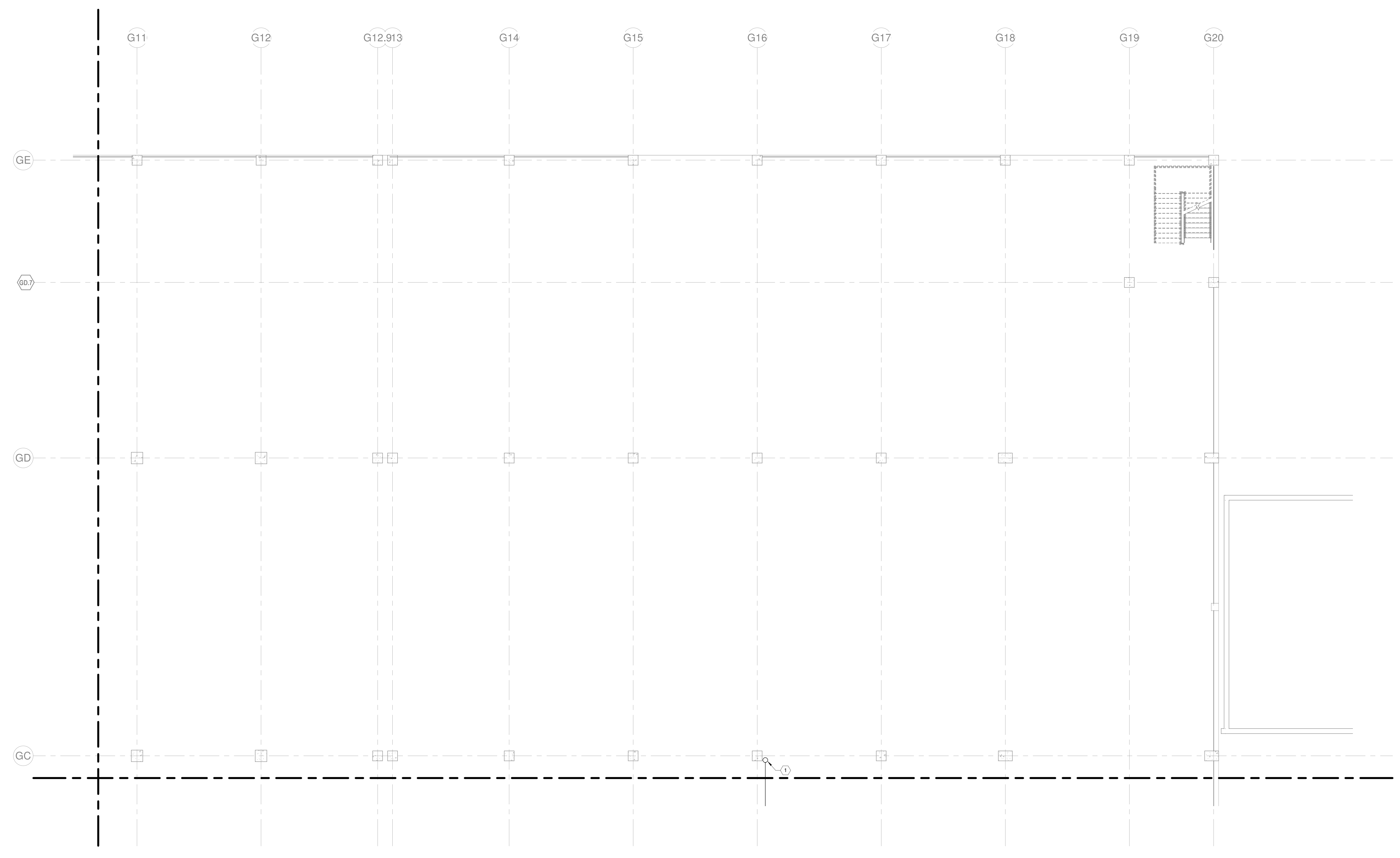
ISSUE	08/16/2022
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SCALE	As indicated
REVISIONS	
G1	2022-1214 - PARKING GARAGE VE

HVAC - LEVEL G1 - AREA K

M-111K

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- HVAC GENERAL NOTES:**
1. SLOPE CONDENSATE A MINIMUM OF 1/8" PER LINEAR FOOT TOWARD DRAIN. CONDENSATE ROUTED ACROSS GARAGE SHALL BE INSTALLED ABOVE THE BOTTOM OF BEAM ELEVATION.
 2. PROVIDE CLEANOUT AT CHANGES IN DIRECTION OF CONDENSATE PIPING.
 3. AVOID ROUTING CONDENSATE PIPING DIRECTLY ABOVE ELECTRICAL EQUIPMENT. WHERE CONDENSATE MUST BE INSTALLED ABOVE ELECTRICAL EQUIPMENT PROVIDE DRIP PAN BENEATH PIPING.
 4. PIPE GUARDS SHALL BE PROVIDED FOR EXPOSED VERTICAL PIPING. SEE ARCHITECTURAL DRAWINGS FOR REQUIREMENTS.
- KEYNOTES:**
1. 1" CD DOWN FROM FLOOR ABOVE.



1 HVAC - LEVEL G1 - AREA L
1/8" = 1'-0"

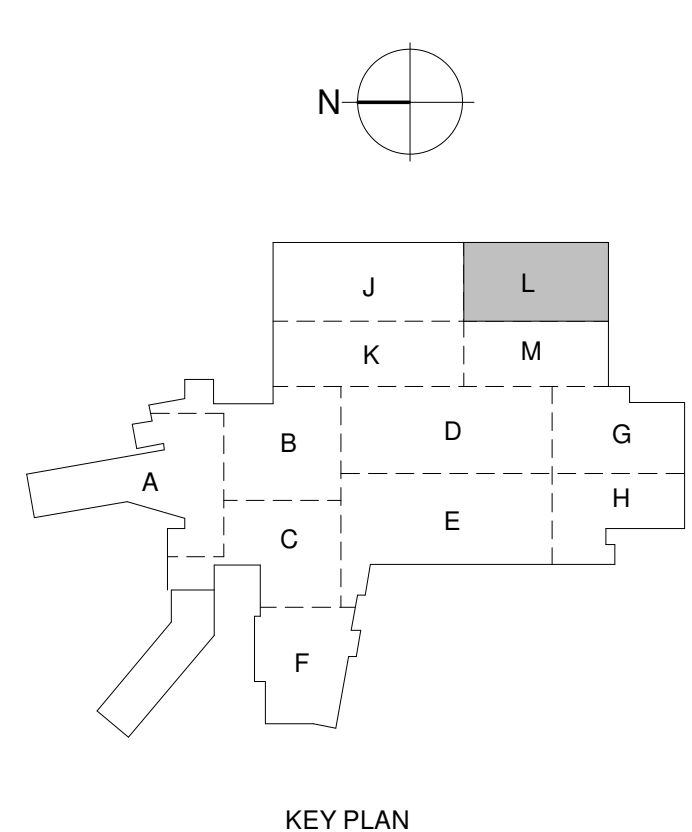
Additions and Renovations to Harrah's Cherokee Valley River
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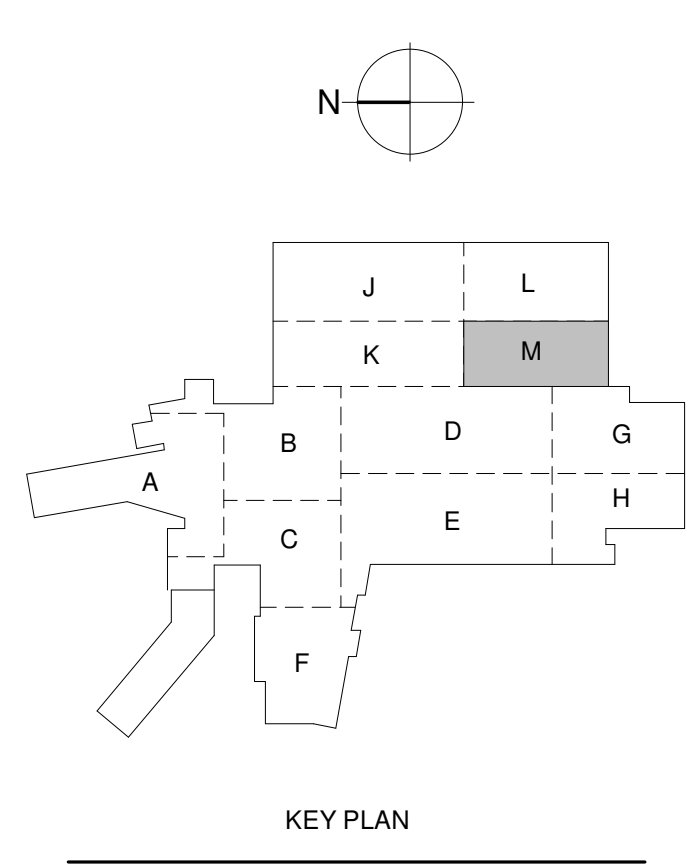
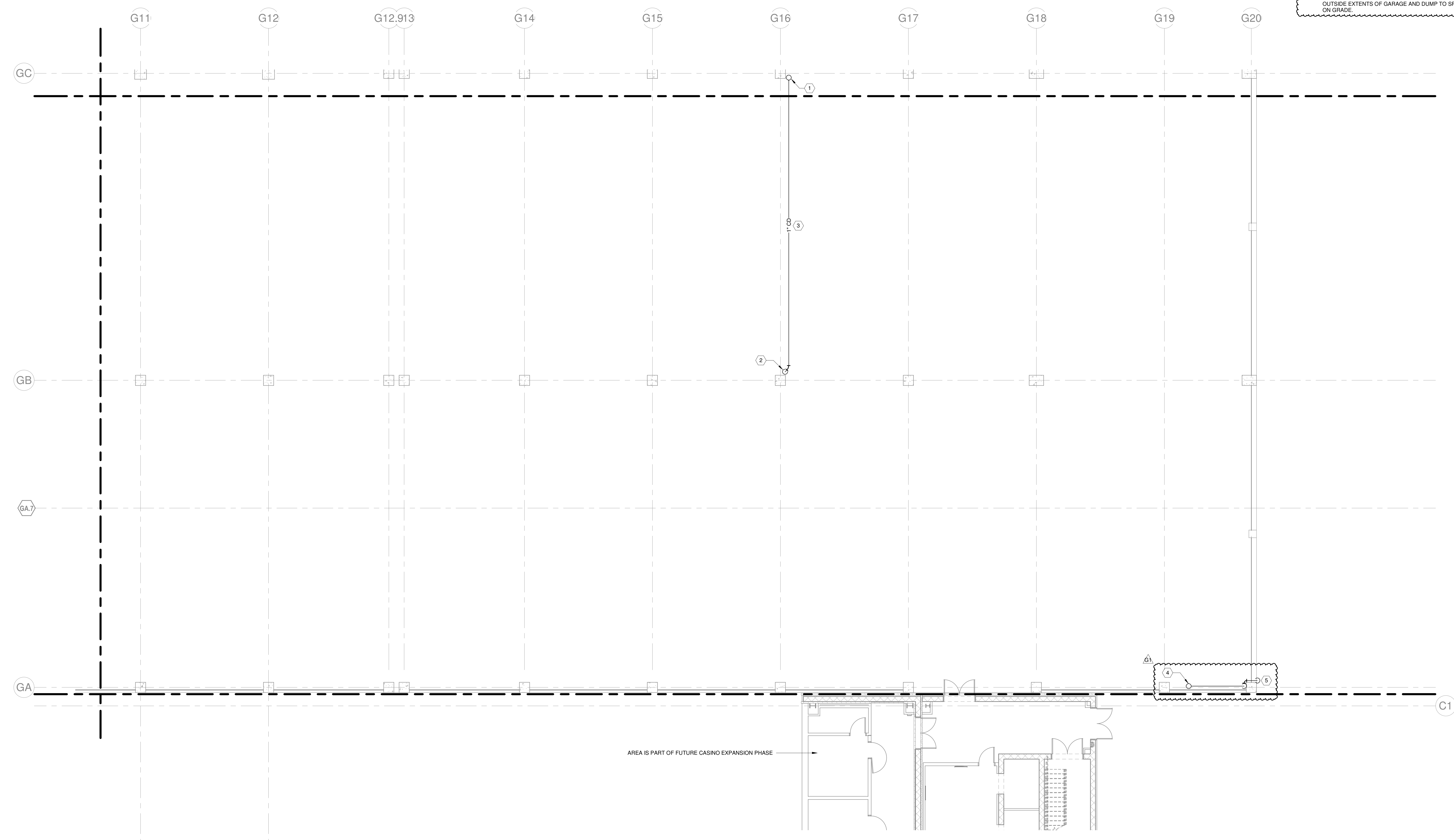


ISSUE	08/16/2022
JOB	30611.00
DRAWN	MWM
SCALE	As indicated
REVISIONS	

HVAC - LEVEL G1 - AREA L

M-111L

- HVAC GENERAL NOTES:**
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 4. PIPE GUARDS SHALL BE PROVIDED FOR EXPOSED VERTICAL PIPING. SEE ARCHITECTURAL DRAWINGS FOR REQUIREMENTS.
- KEYNOTES:**
1. 1" CD DOWN FROM FLOOR ABOVE.
 2. ROUTE 1" CD DOWN ADJACENT TO COLUMN AND DUMP TO DECK 1/4" AFF NEAR PLUMBING DRAIN. SEE PLUMBING DRAWINGS FOR DRAIN LOCATION.
 3. ROUTE 1" CD ACROSS GARAGE TIGHT TO DECK ABOVE. CONDENSATE DRAIN DOWN FROM FLOOR ABOVE.
 4. ROUTE CONDENSATE DRAIN DOWN ADJACENT COLUMN AND OUTSIDE EXTENTS OF GARAGE AND DUMP TO SPLASH BLOCK ON GRADE.
 5. ROUTE CONDENSATE DRAIN DOWN ADJACENT COLUMN AND OUTSIDE EXTENTS OF GARAGE AND DUMP TO SPLASH BLOCK ON GRADE.



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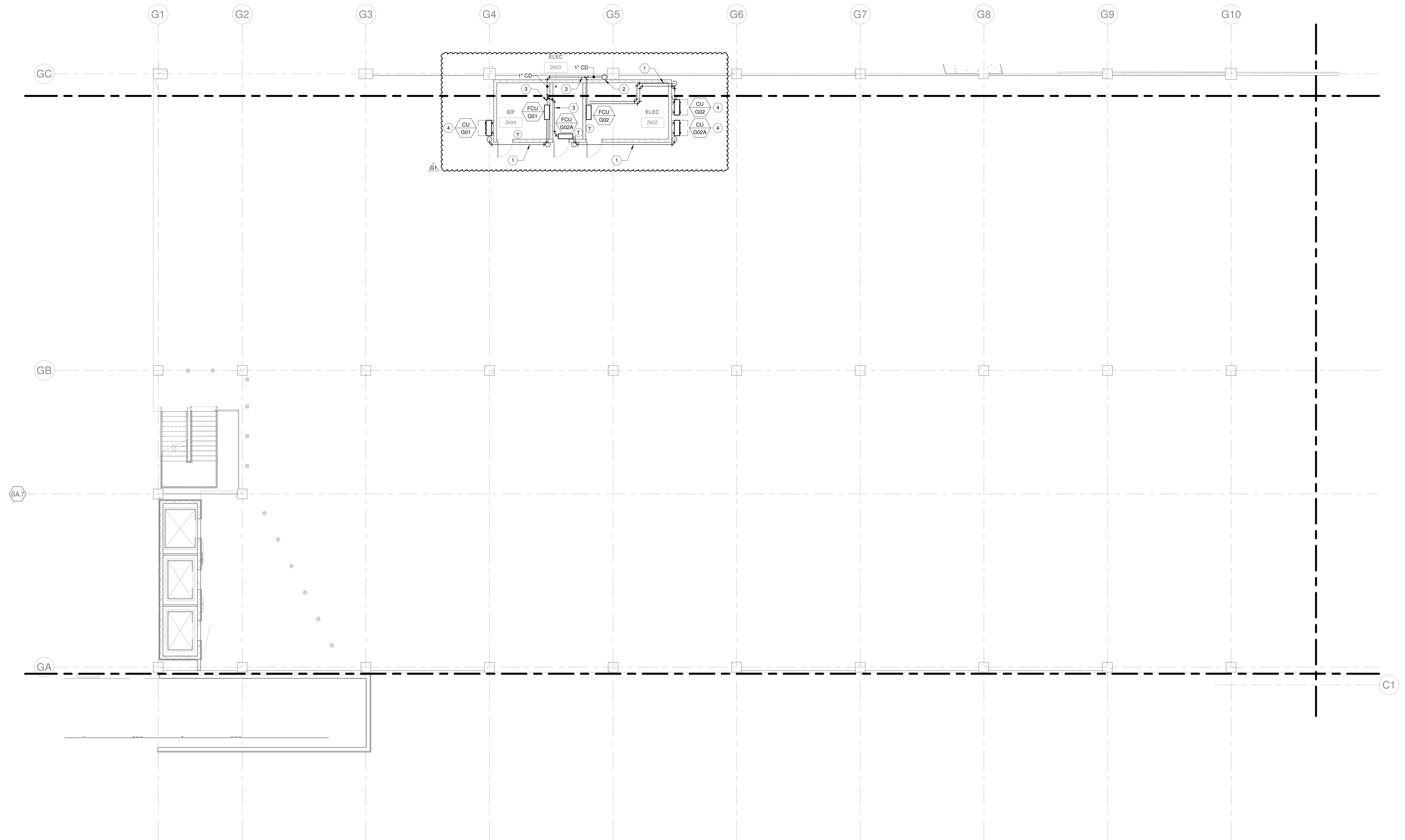


ISSUE	08/16/2022
JOB	30611.00
DRAWN	MWM
SCALE	As indicated
REVISIONS	
G1	2022-1214 PARKING GARAGE VE

1/30/2023 11:52:26 AM

1/30/2023 11:52:36 AM [unreadable]

- HVAC GENERAL NOTES:**
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- KEYNOTES:**
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 2. 1" CD DOWN FROM FLOOR ABOVE AND DOWN TO FLOOR BELOW.
 3. CONDENSATE DRAIN PIPING SHALL MATCH UNIT CONNECTION SIZE.
 4. PROVIDE WITH WALL MOUNT BRACKET AND INSTALL A MINIMUM OF 6'-3" AFF.

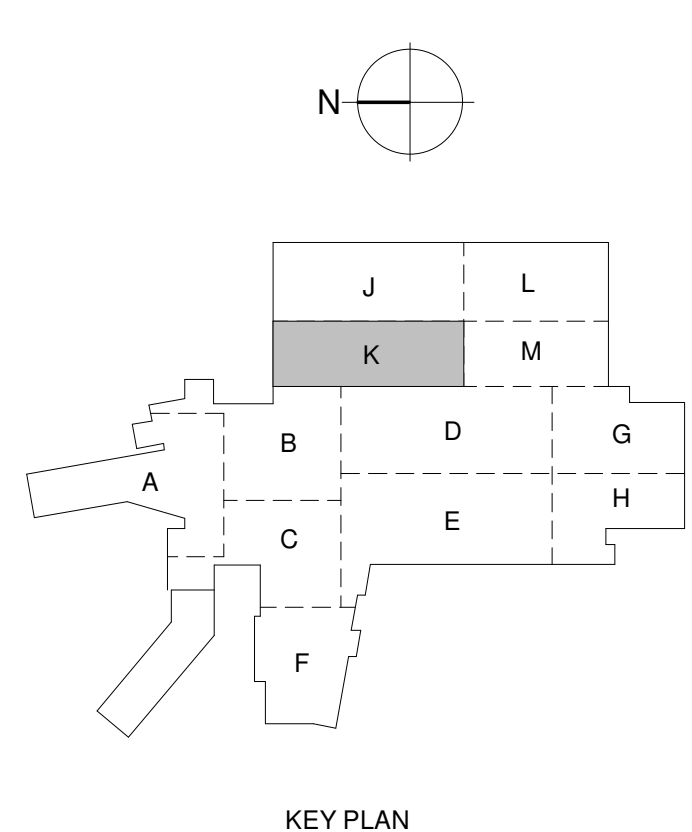


1 HVAC - LEVEL G2 - AREA K
1/8" = 1'-0"

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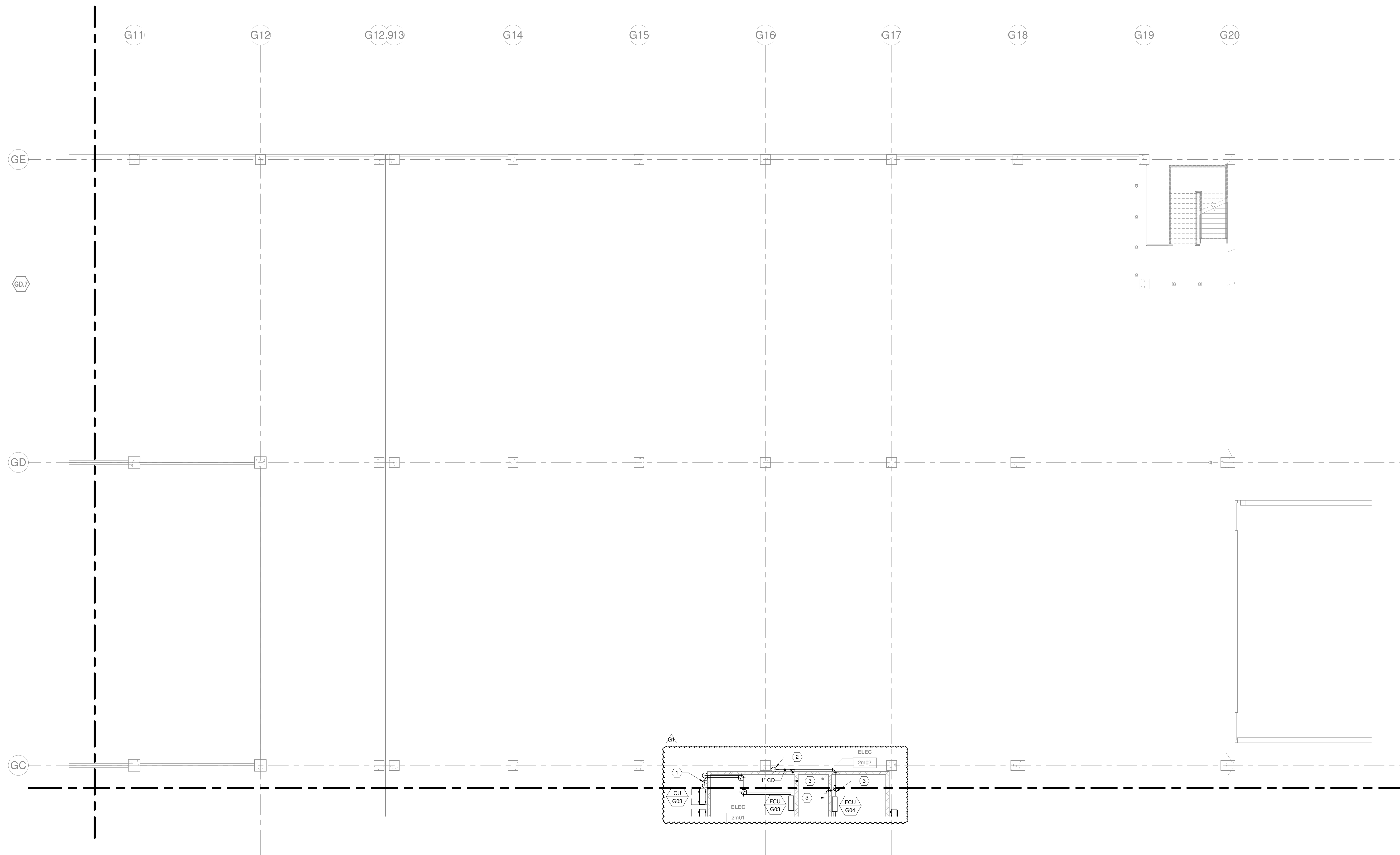


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SCALE	As indicated
REVISIONS	
G1	2022-1214 PARKING GARAGE VE

HVAC - LEVEL G2 - AREA K

M-112K

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1 HVAC - LEVEL G2 - AREA L
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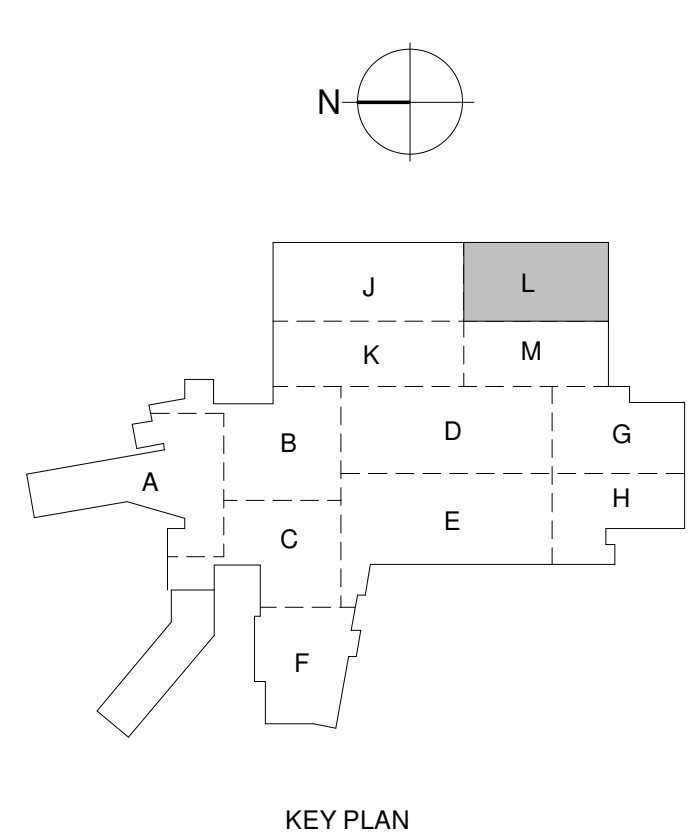
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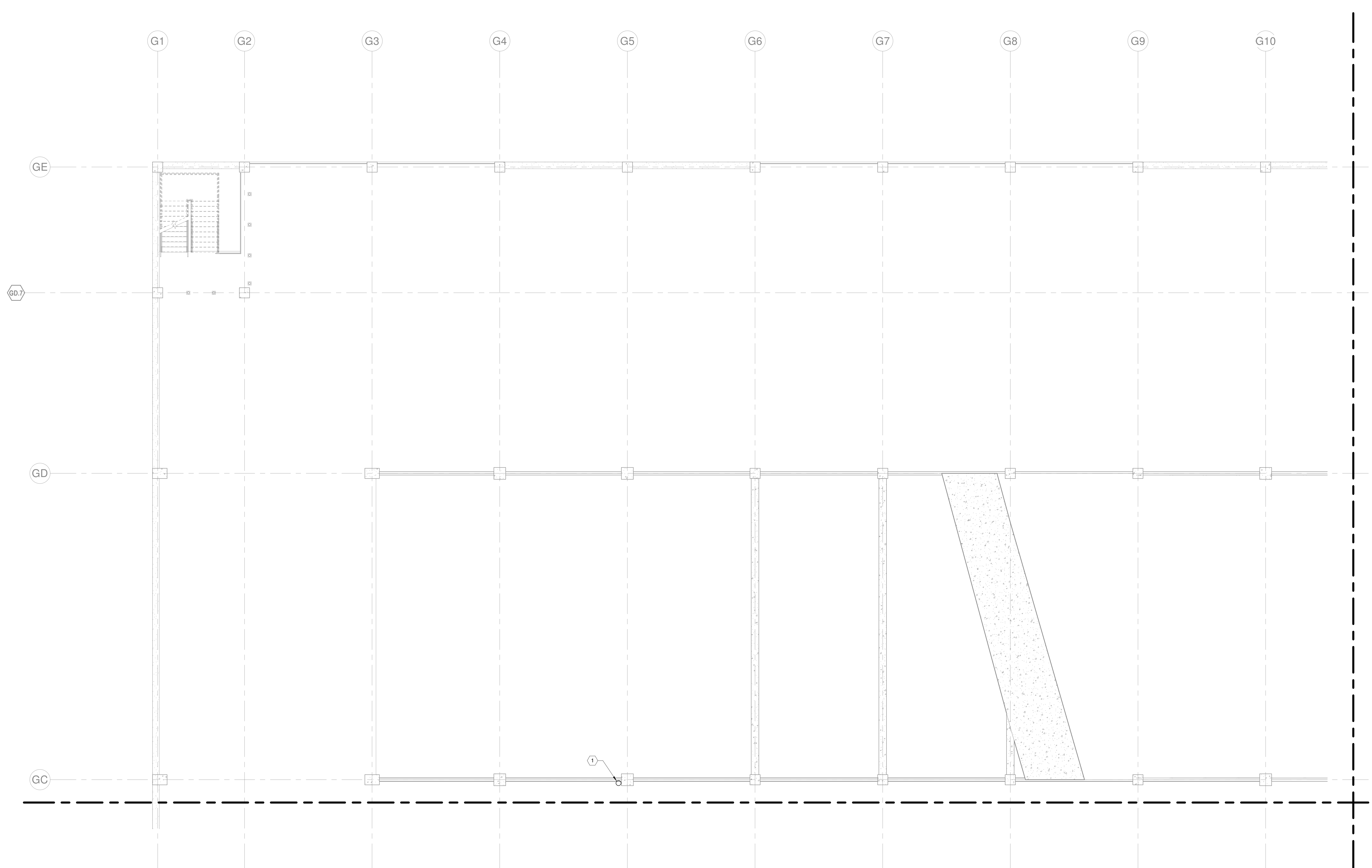
ISSUE	08/16/2022
JOB	30611.00
DRAWN	MWM
SCALE	As indicated
REVISIONS	
G1	2022-1214 PARKING GARAGE VE

HVAC - LEVEL G2 - AREA L

M-112L

15/03/2023 11:15:45 AM J:\WORK\PROJECTS\2023\23-01-01\HVAC\LEVEL G3 - AREA J.dwg

- HVAC GENERAL NOTES:**
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- KEYNOTES:**
1. 1" CD DOWN FROM FLOOR ABOVE AND DOWN TO FLOOR BELOW.

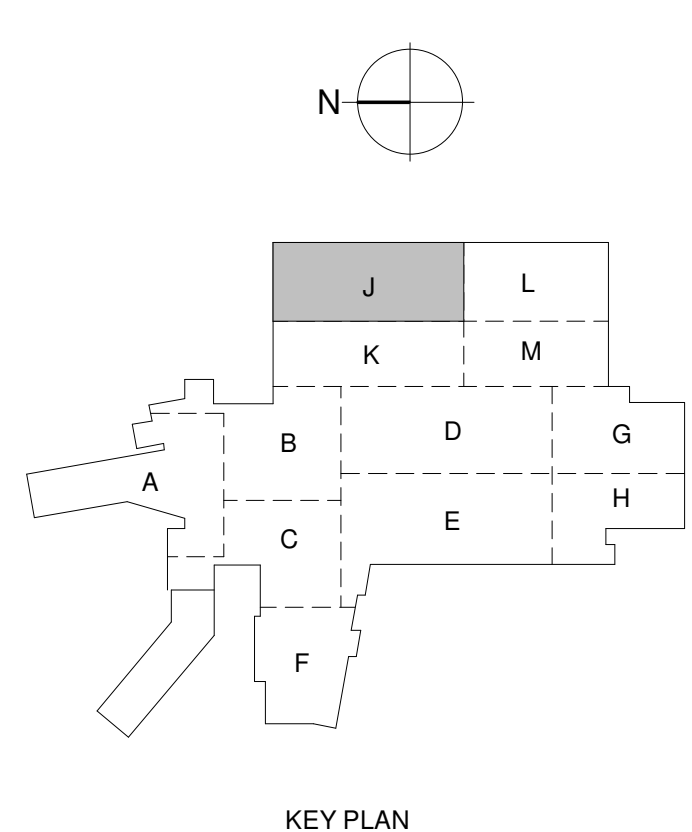


1 HVAC - LEVEL G3 - AREA J
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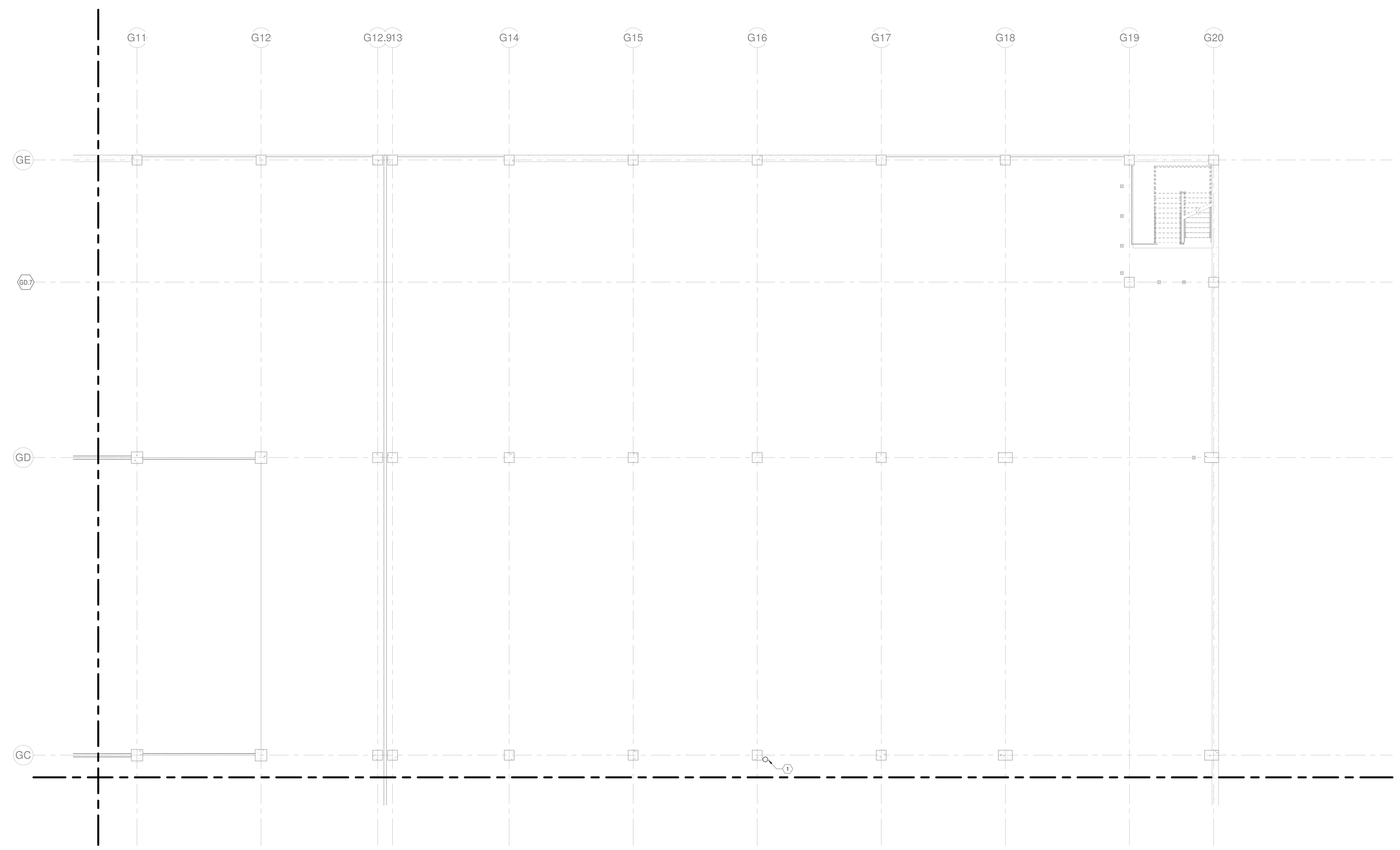
ISSUE	08/16/2022
JOB	30611.00
DRAWN	MWM
SCALE	As indicated
REVISIONS	

HVAC - LEVEL G3 - AREA J

M-113J

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- KEYNOTES:**
1. 1" CD DOWN FROM FLOOR ABOVE AND DOWN TO FLOOR BELOW.

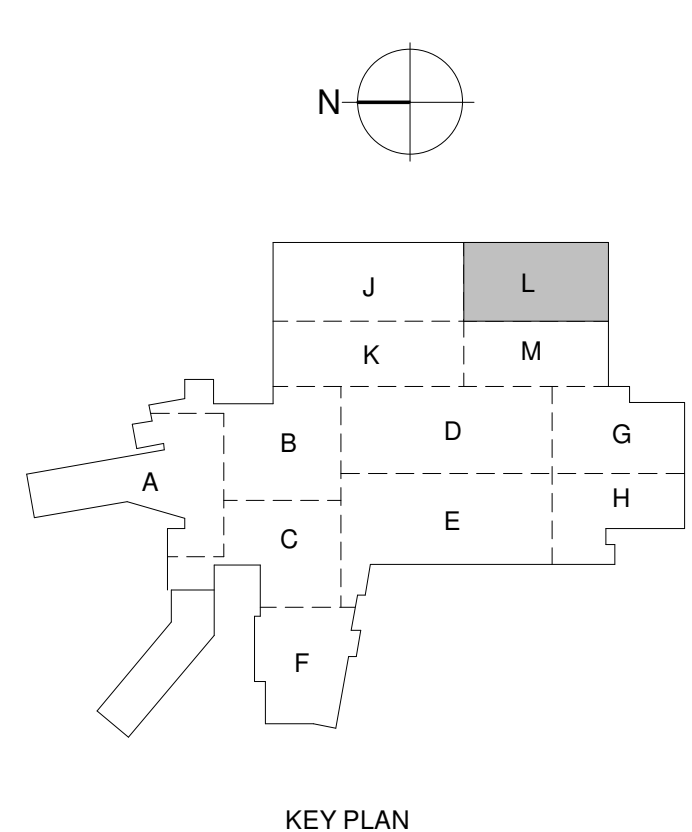


1 HVAC - LEVEL G3 - AREA L
1/8" = 1'-0"

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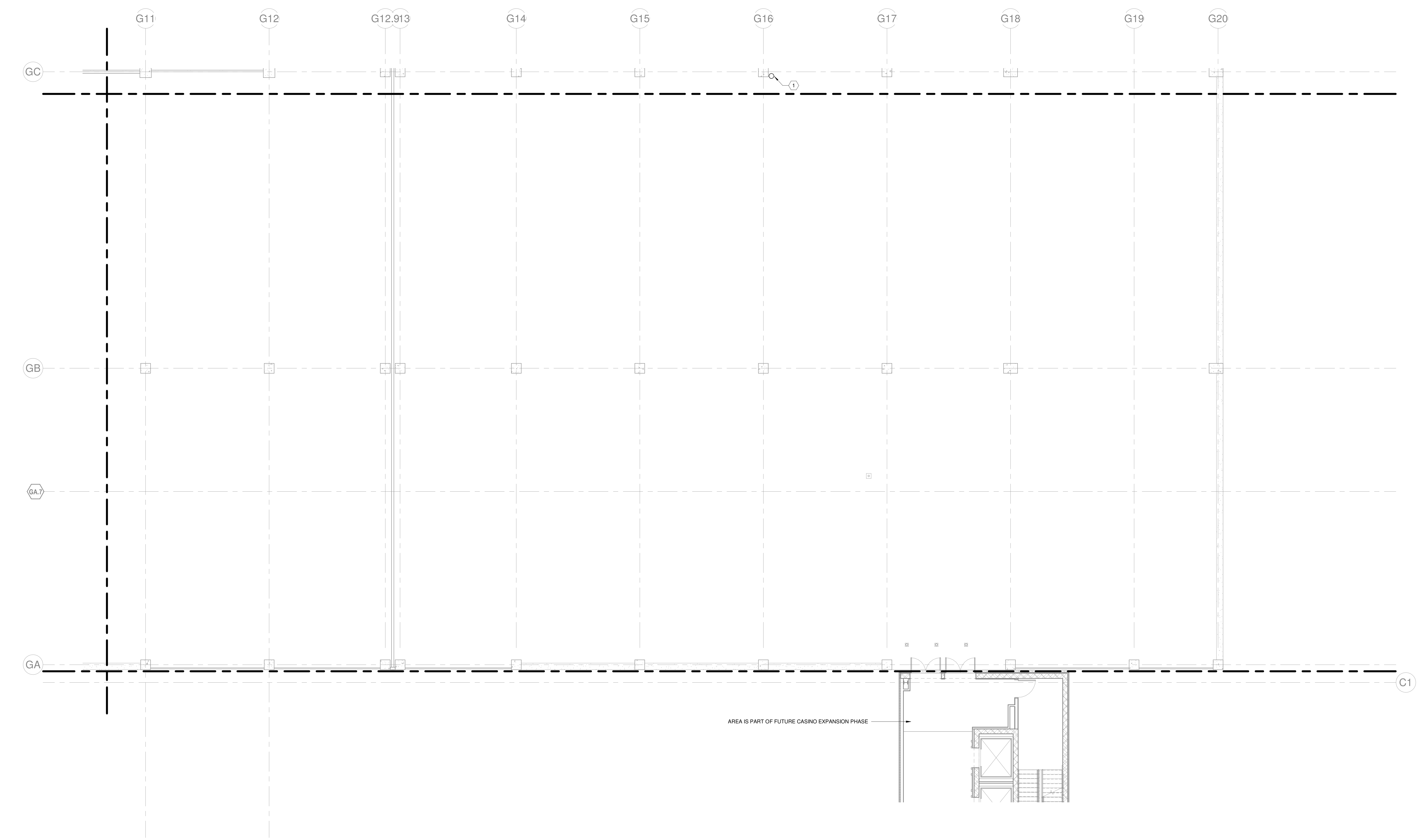


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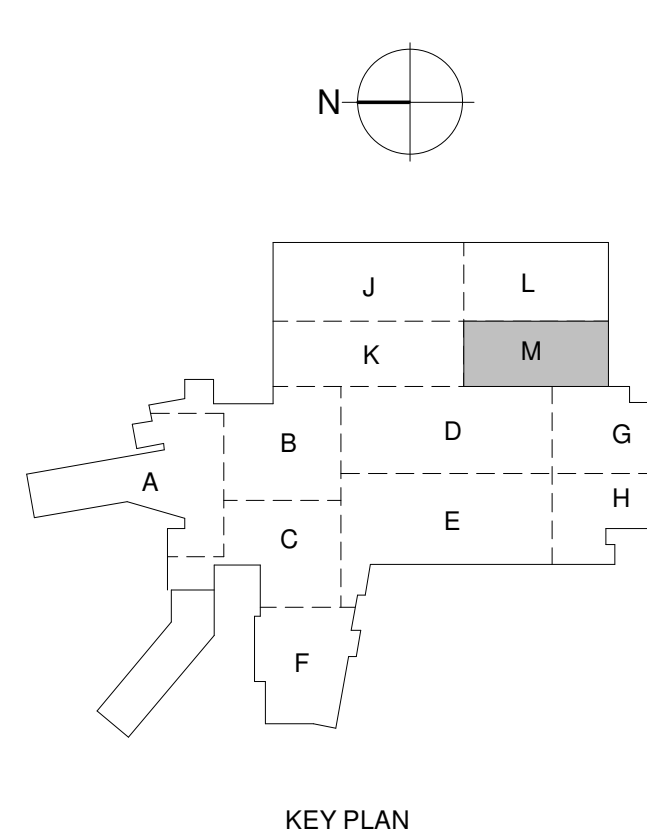
HVAC - LEVEL G3 - AREA L

M-113L

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1 HVAC - LEVEL G3 - AREA M
1/8" = 1'-0"



KEY PLAN
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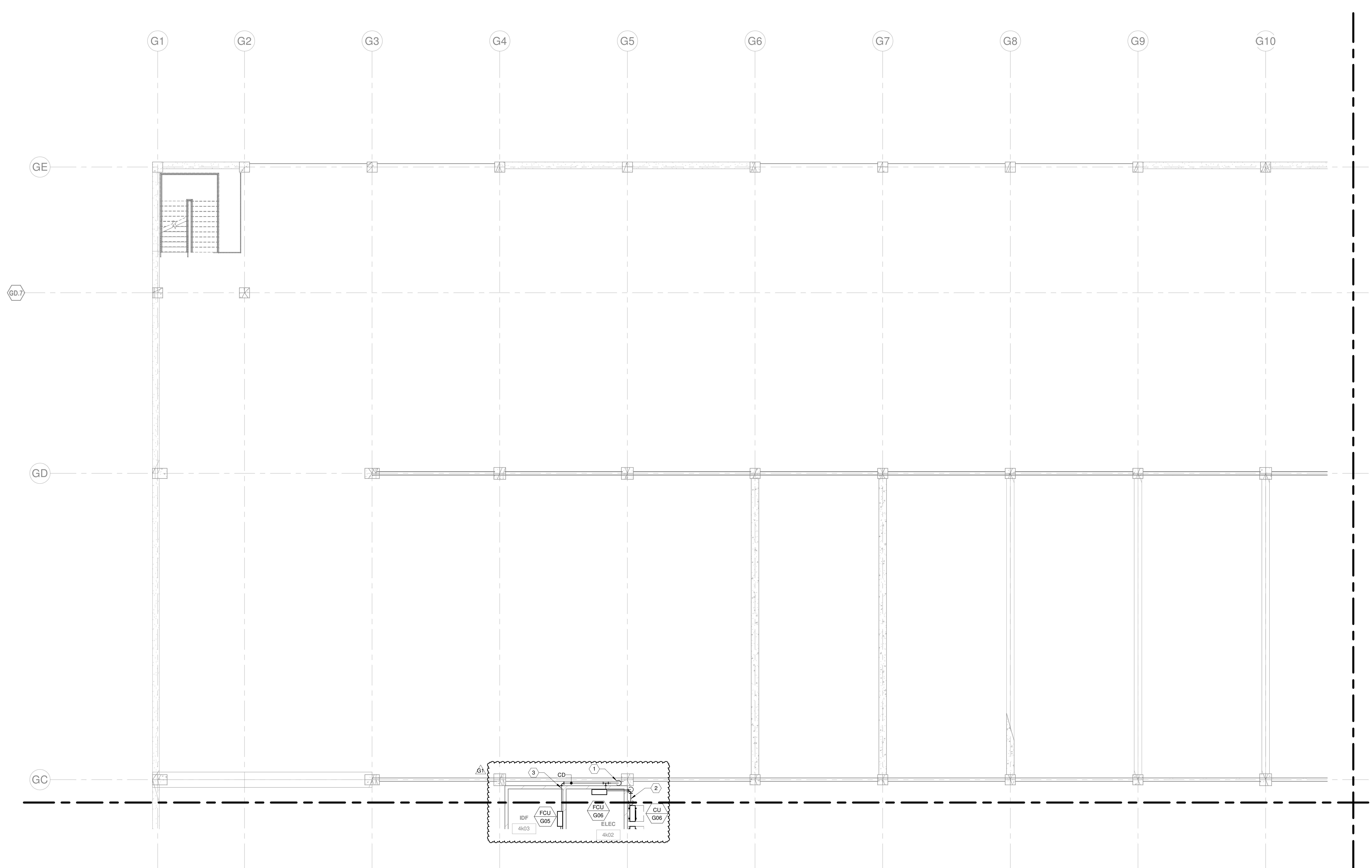


ISSUE	08/16/2022
JOB	30611.00
DRAWN	MWM
SCALE	As indicated
REVISIONS	

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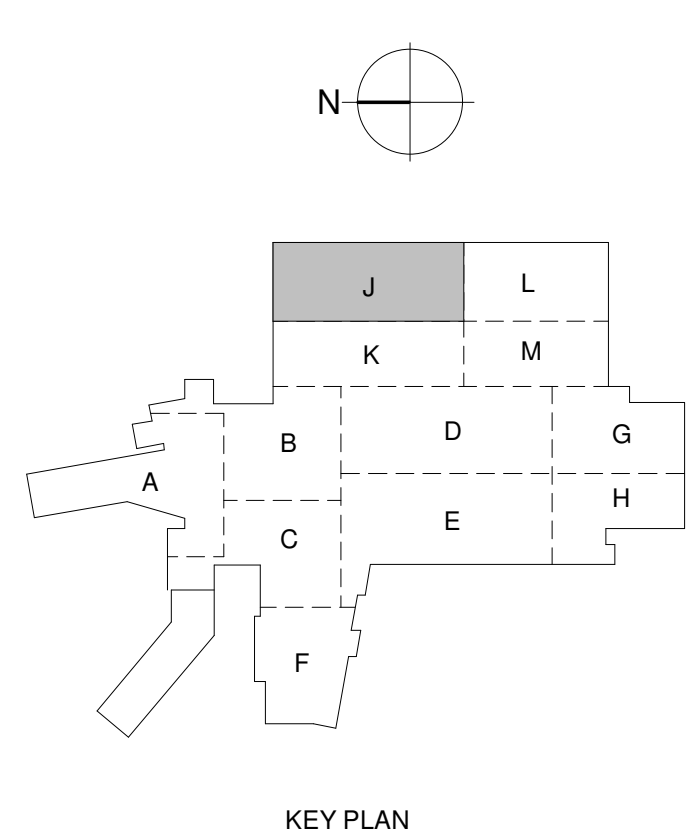


1 HVAC - LEVEL G4 - AREA J
1/8" = 1'-0"

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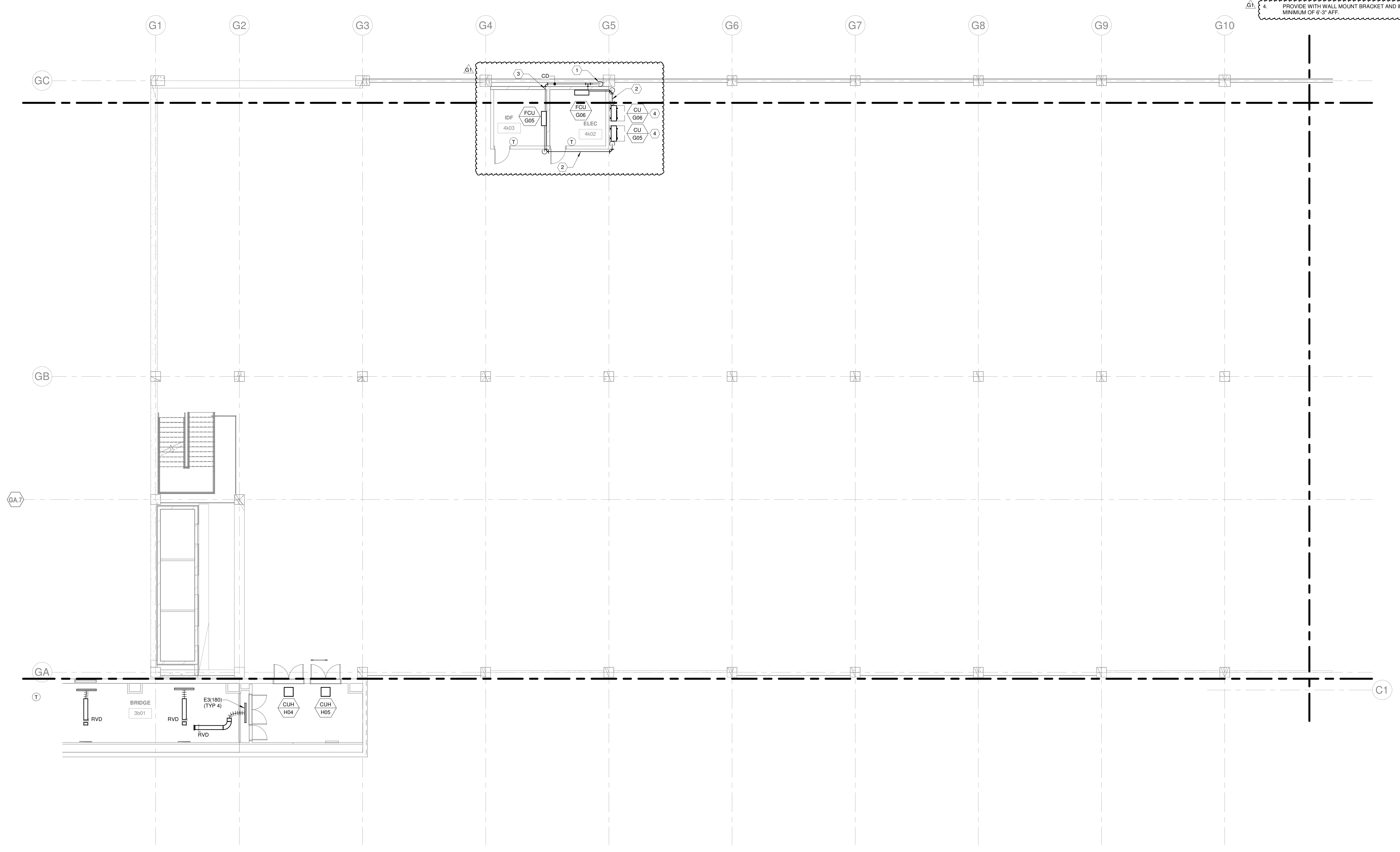


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JOB	30611.00
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SCALE	As indicated
REVISIONS	
G1	2022-1214 PARKING GARAGE VE

HVAC - LEVEL G4 - AREA J

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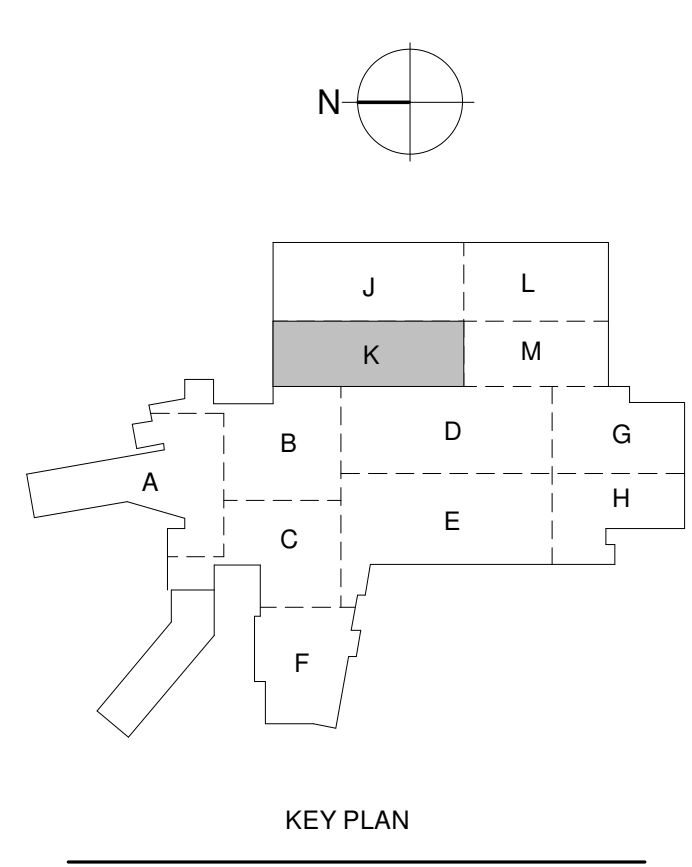
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1 HYAC - LEVEL G4 - AREA K
1/8" = 1'-0"

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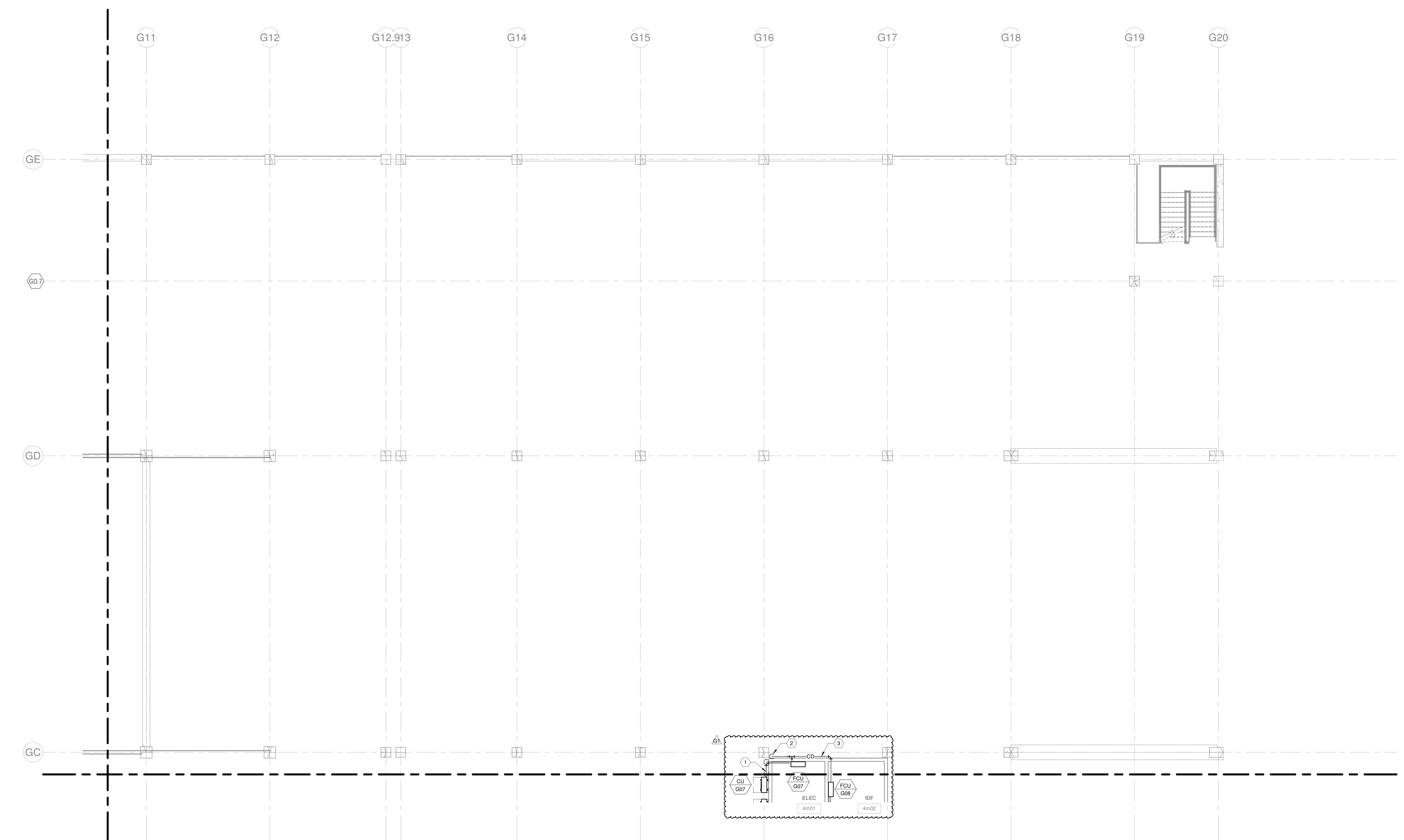


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JOB	30611.00
DRAWN	MWM
SCALE	As indicated
REVISIONS	
G1	2022-1214 PARKING GARAGE VE

HVAC - LEVEL G4 - AREA K
M-114K

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- HVAC GENERAL NOTES:**
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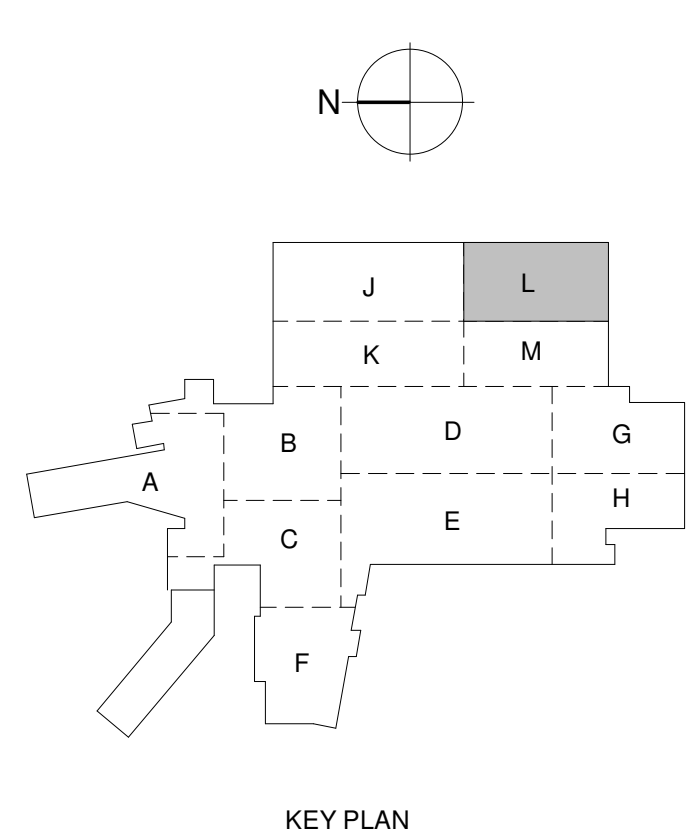


1 HVAC - LEVEL G4 - AREA L
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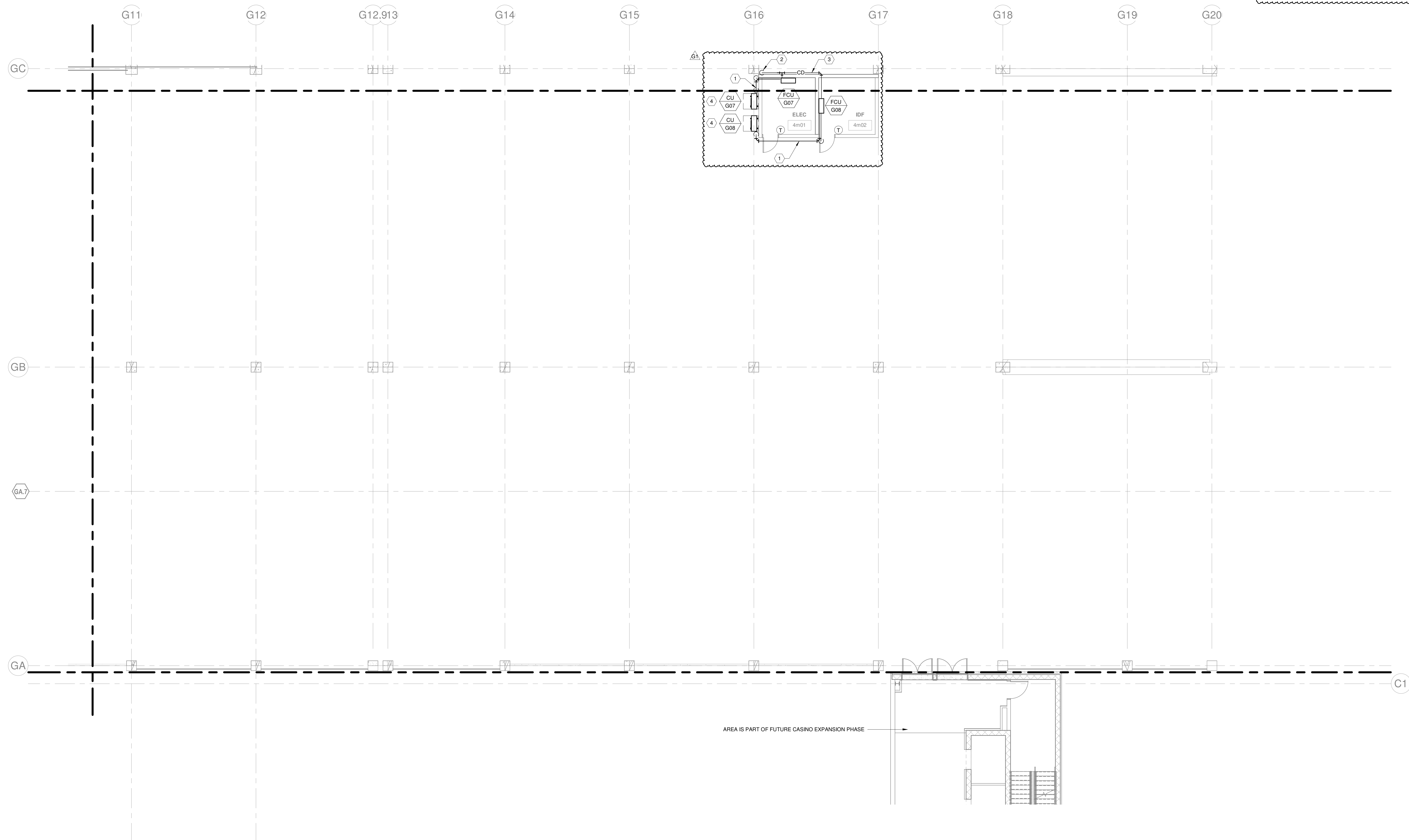


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SCALE	As indicated
REVISIONS	
G1	2022-1214 PARKING GARAGE VE

HVAC - LEVEL G4 - AREA L

M-114L

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- HVAC GENERAL NOTES:**
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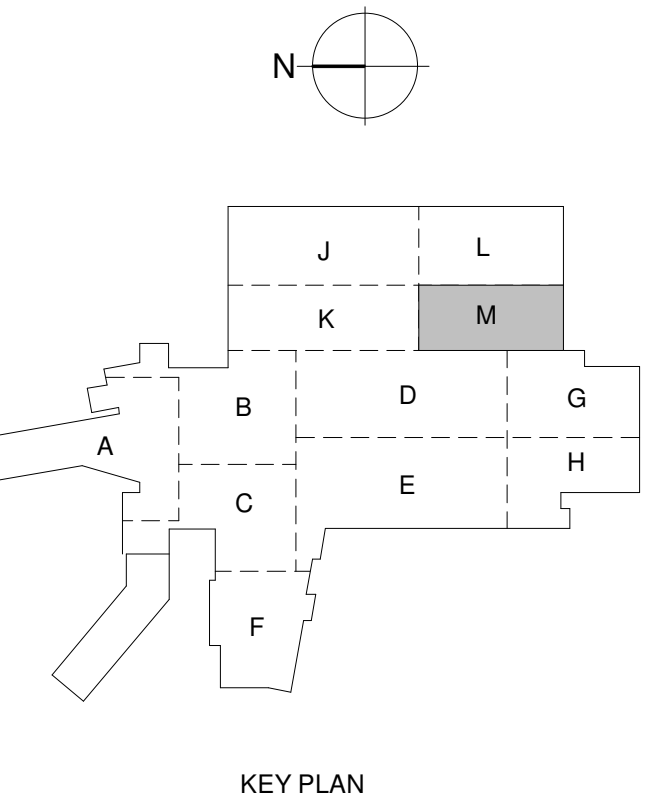
1 HVAC - LEVEL G4 - AREA M
1/8" = 1'-0"

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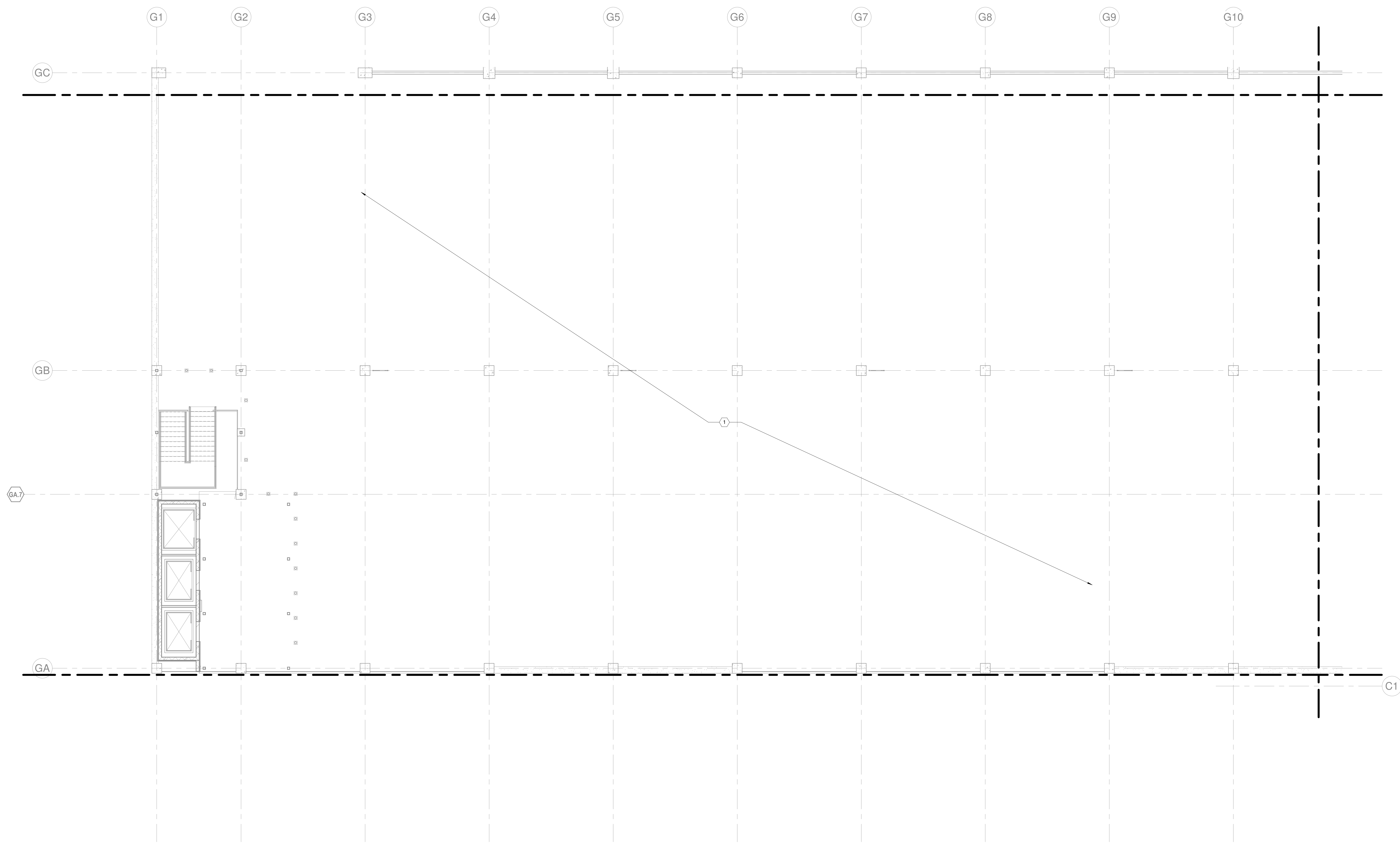


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JOB	30611.00
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SCALE	As indicated
REVISIONS	
G1	2022-1214 PARKING GARAGE VE

HVAC - LEVEL G4 - AREA M

M-114M

KEYNOTES:
1. NO HVAC WORK IN THIS AREA OF THE GARAGE.



1 HVAC - LEVEL G5 - AREA K
1/8" = 1'-0"

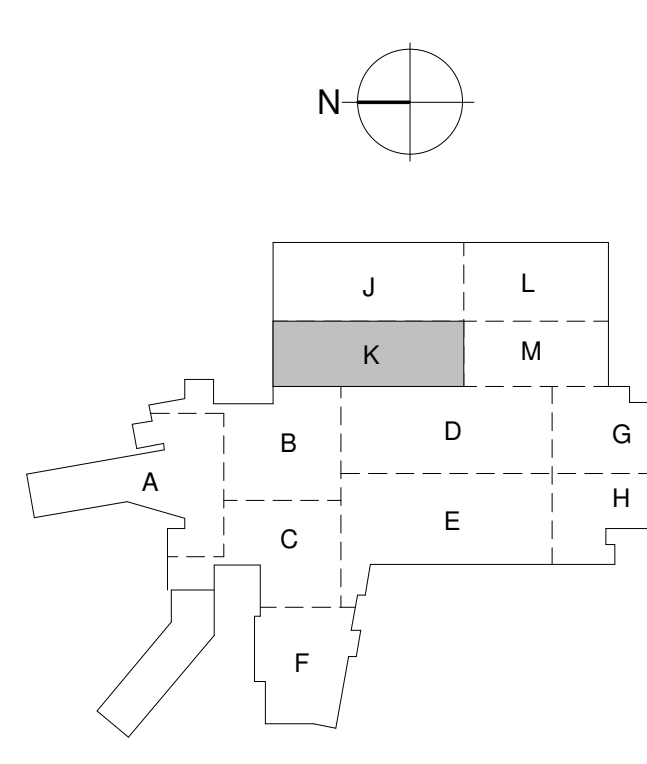
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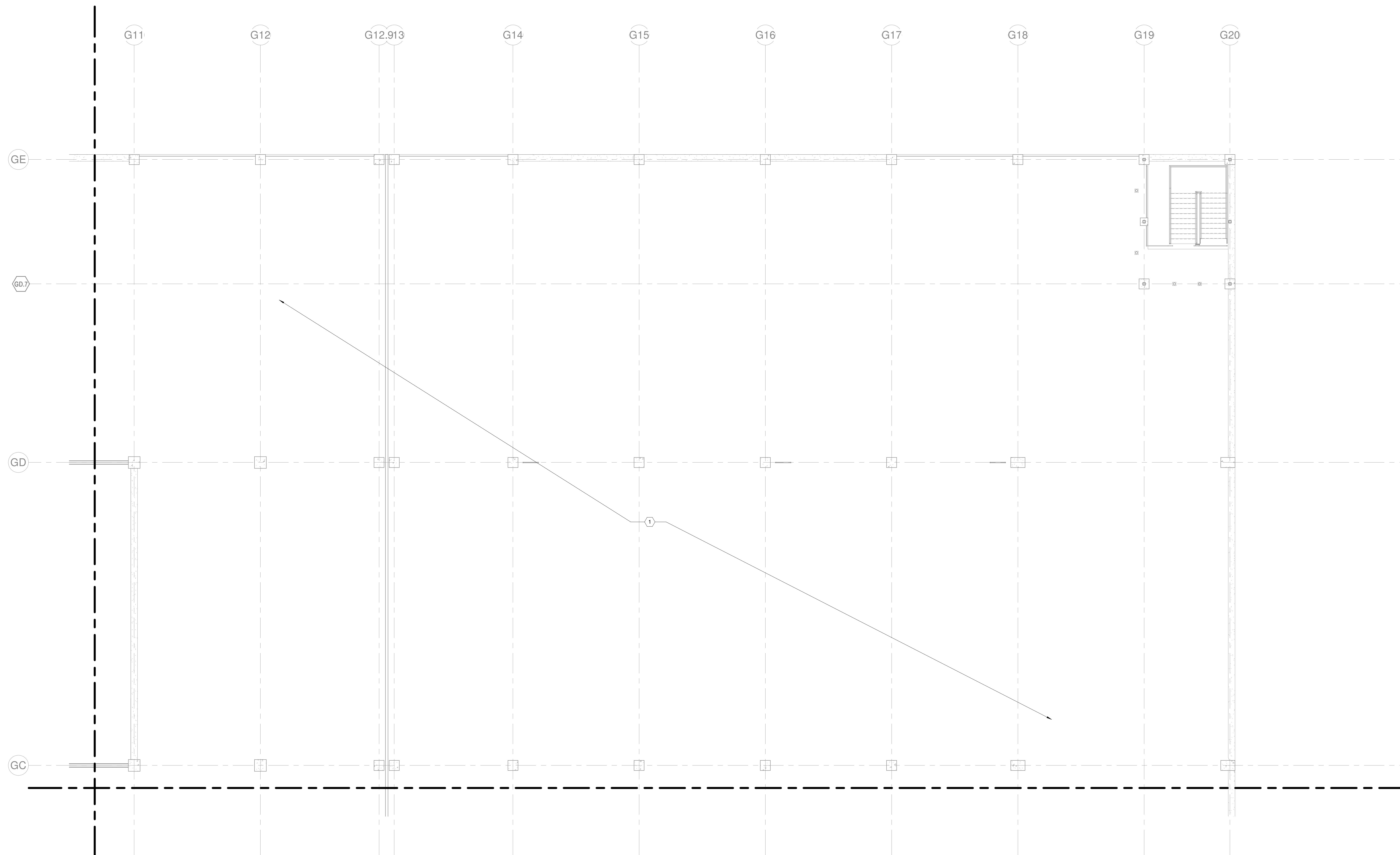
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 SCALE 1/8" = 1'-0"
 REVISIONS

HVAC - LEVEL G5 - AREA K
M-115K

KEYNOTES:
1. NO HVAC WORK IN THIS AREA OF THE GARAGE.



1 HVAC - LEVEL G5 - AREA L
1/8" = 1'-0"

Additions and Renovations to Harrah's Cherokee Valley River
 777 Casino Parkway
 Murphy, NC 28906

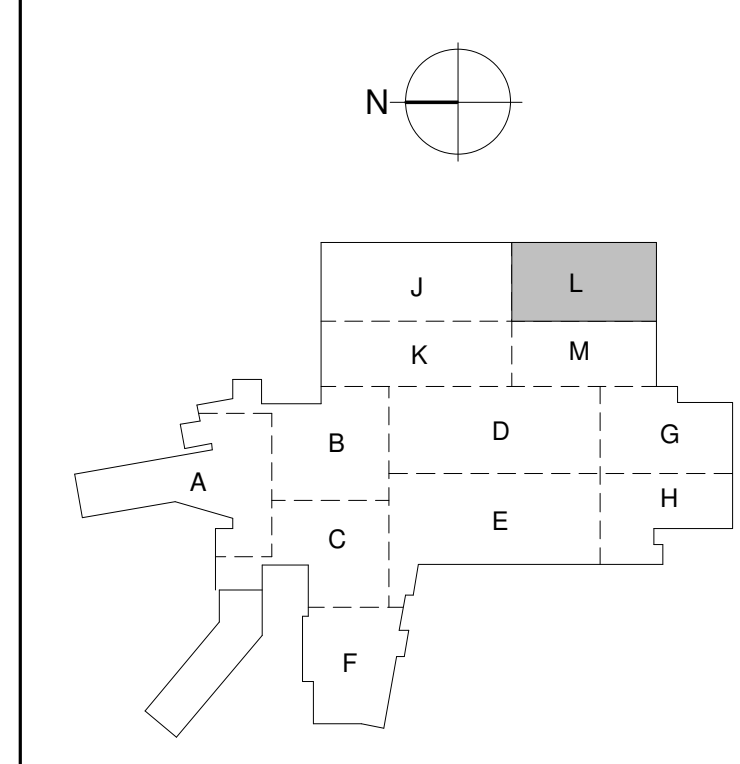
JCJ ARCHITECTURE

120 HUYSHOPE AVENUE
 SUITE 400
 HARTFORD, CT 06106
 860.247.9226

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CONSULTANT:

VANDERWEIL
 P.E. Vanderweil Engineers, LLP : 617.433.7423 TEL.
 274 Summer Street : 617.433.7401 FAX
 Boston, MA 02210 : vanderweil.com



KEY PLAN

PERMIT SET
01/31/2023



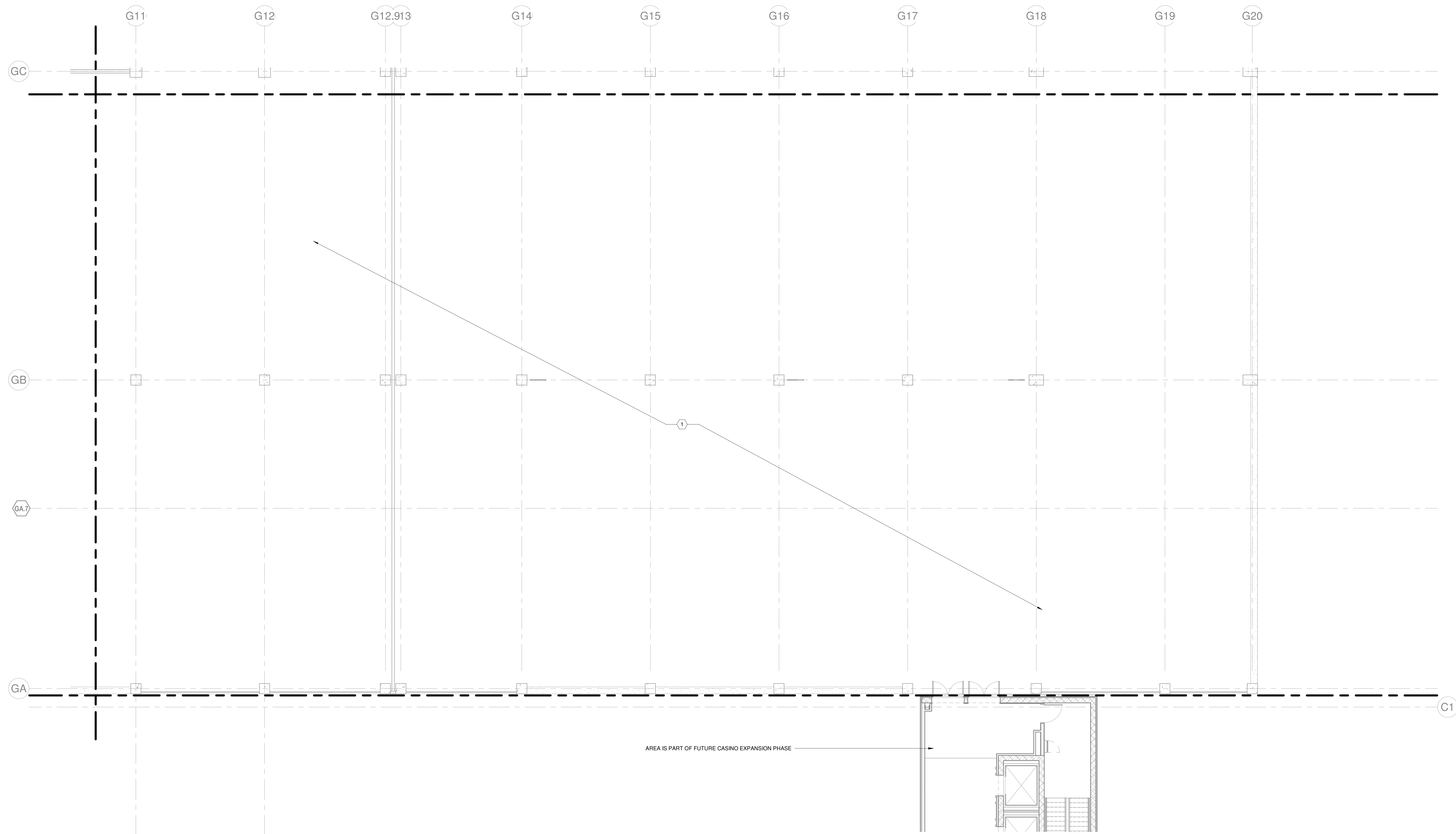
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JOB	30611.00
DRAWN	MWM
SCALE	1/8" = 1'-0"
REVISIONS	

HVAC - LEVEL G5 - AREA L

M-115L

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KEYNOTES:
1. NO HVAC WORK IN THIS AREA OF THE GARAGE.



1 HVAC - LEVEL G5 - AREA M
1/8" = 1'-0"

AREA IS PART OF FUTURE CASINO EXPANSION PHASE

Additions and Renovations to Harrah's Cherokee Valley River

777 Casino Parkway
Murphy, NC 28906

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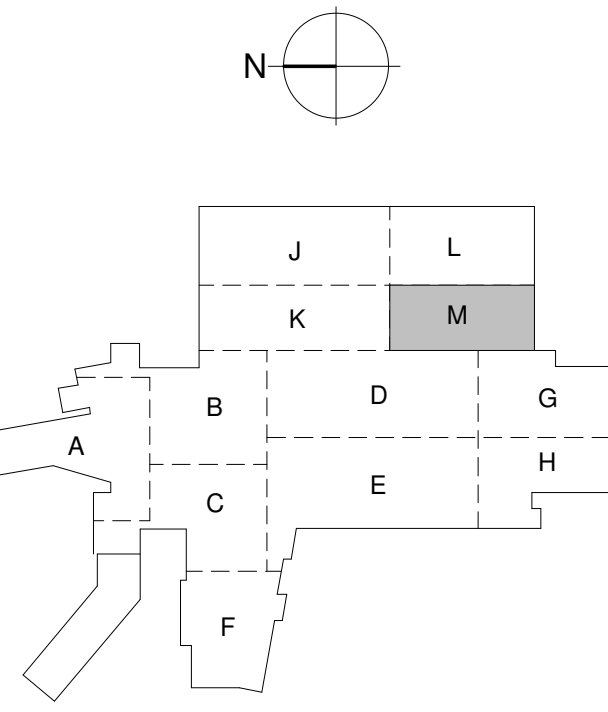
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SUITE 400
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860.247.9226

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274 Summer Street
Boston, MA 02210
617.433.7422 FAX
617.433.7401 PAX
vanderweil.com



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

HVAC - LEVEL G5 - AREA M

M-115M

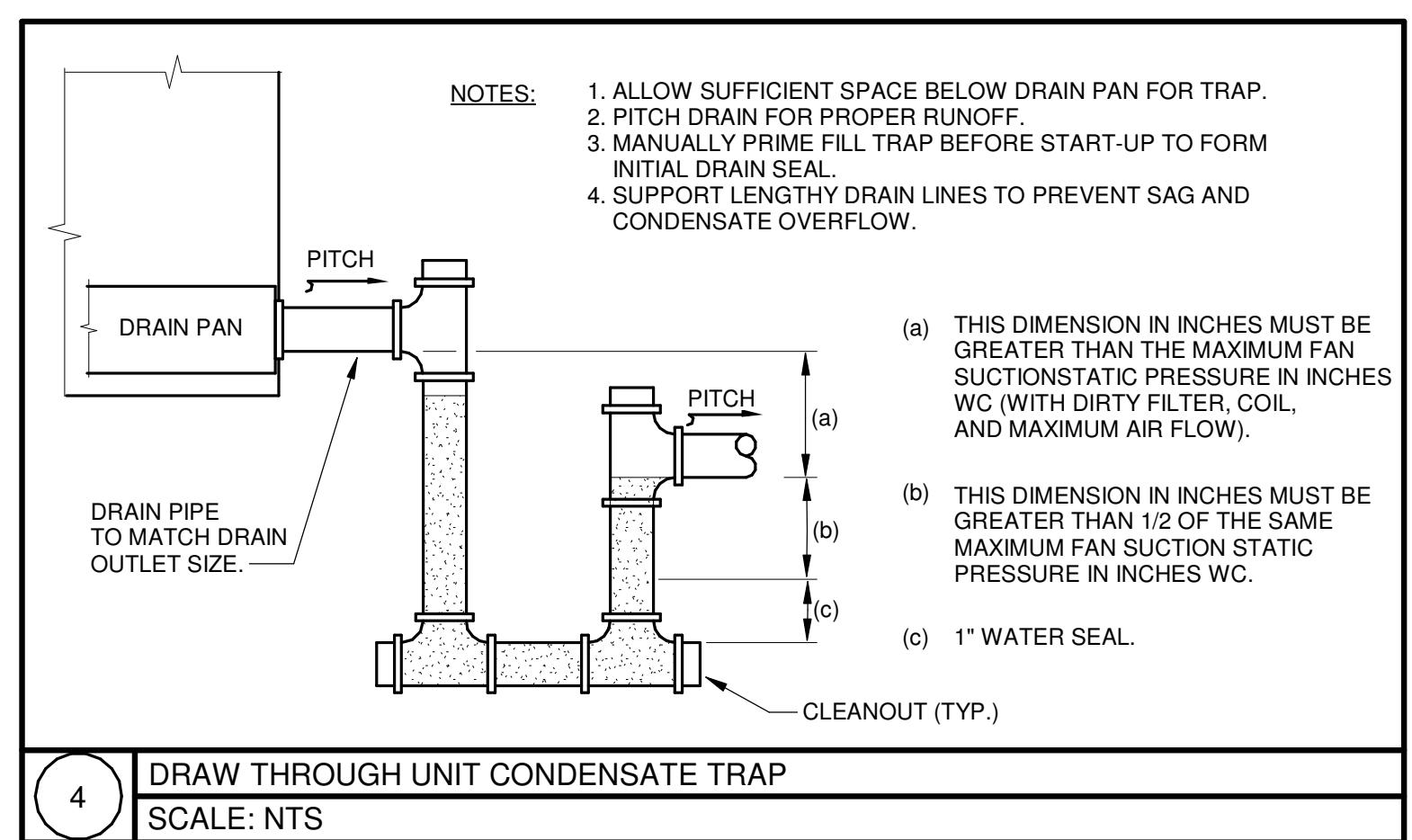
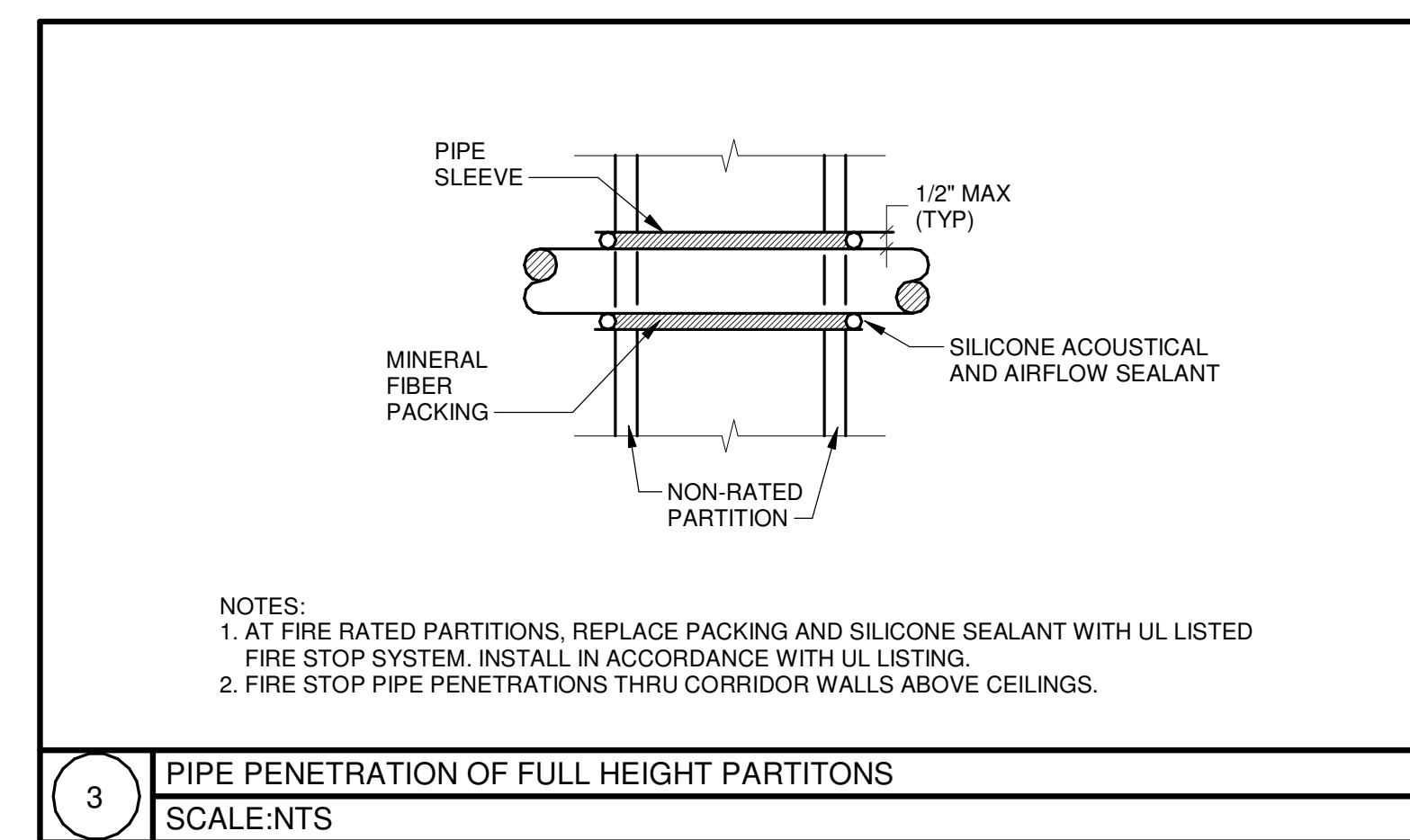
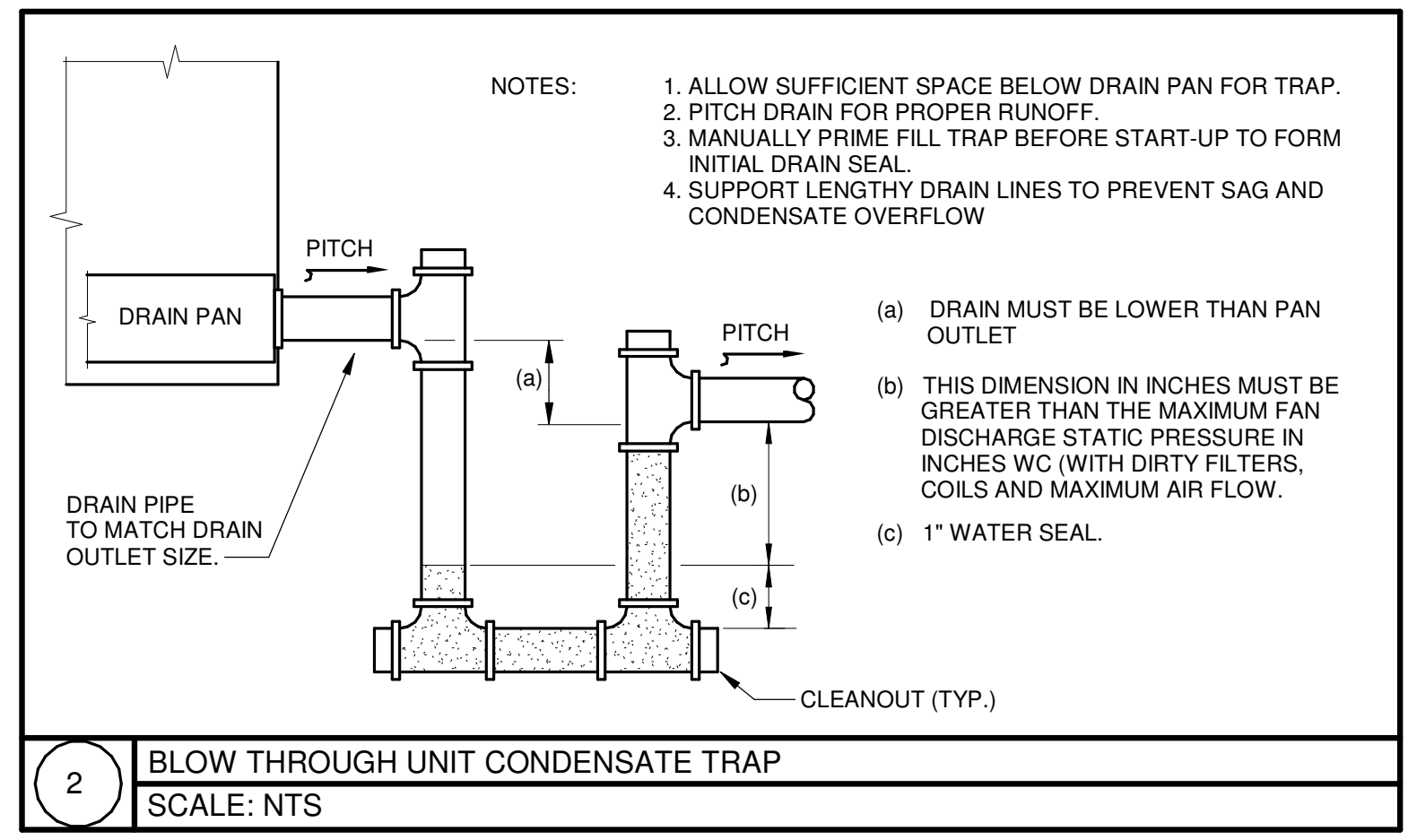
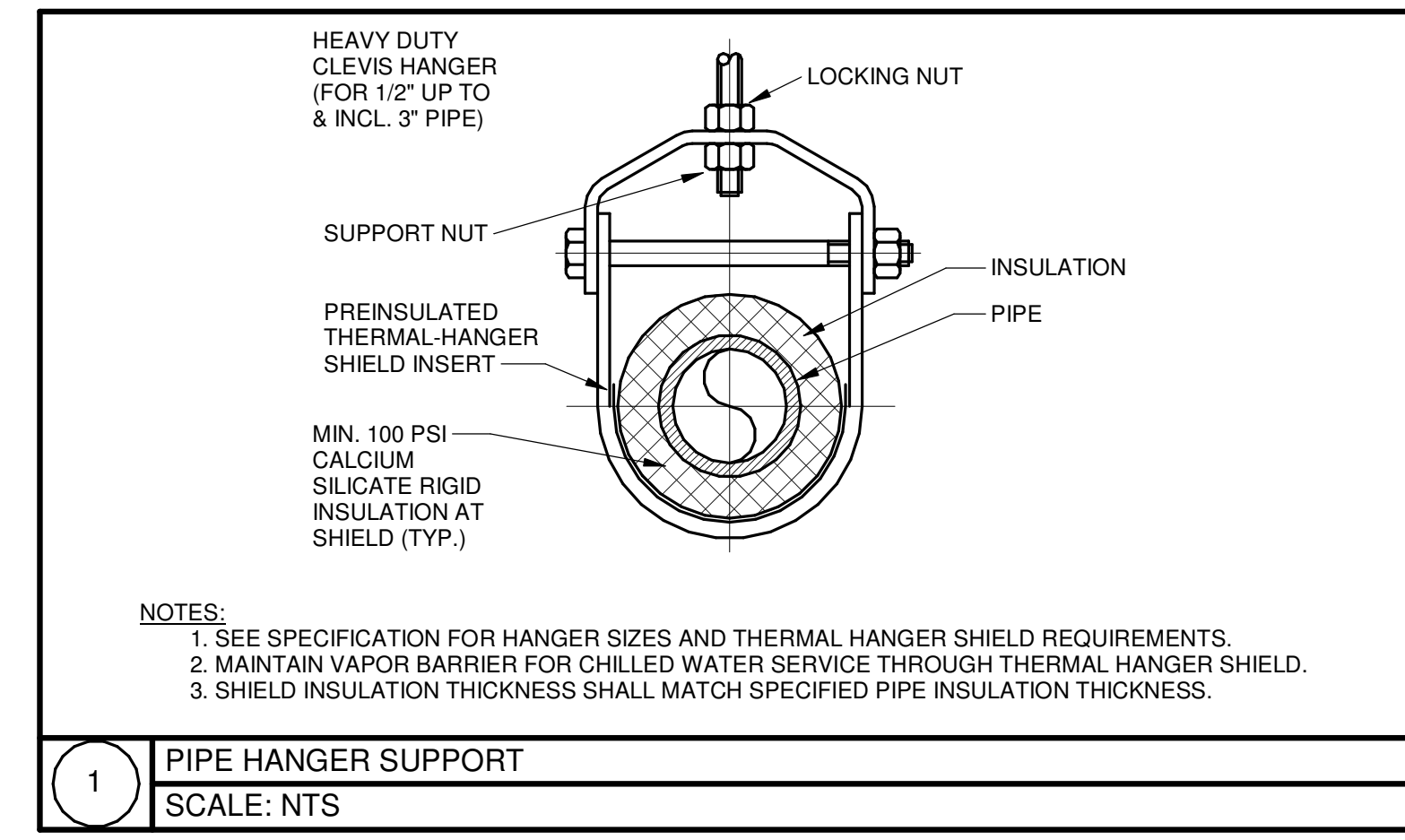
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 PROJECT: 2022-1214 - PARKING GARAGE VE
 SHEET: G1 - HVAC SCHEDULES AND DETAILS - GARAGE
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 DRAWN: MWM
 CHECKED: MWM
 DATE: 01/31/2023
 PROJECT: 2022-1214 - PARKING GARAGE VE
 SHEET: G1 - HVAC SCHEDULES AND DETAILS - GARAGE

HVAC - DX SPLIT SYSTEM UNIT - GARAGE

- REMARKS:
 1. INDOOR UNIT AND OUTDOOR UNIT SHALL BE THE SAME MANUFACTURER
 2. OUTDOOR UNIT POWER SUPPLY FEEDS INDOOR UNIT.
 3. COORDINATE MOUNTING OF INDOOR UNIT WITH ARCHITECT.
 4. PROVIDE COMPLETE REFRIGERATION SYSTEM SIZED AND INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. REFRIGERATION SYSTEM SHALL INCLUDE BUT IS NOT LIMITED TO SIGHT GLASS / MOISTURE INDICATOR, FILTER-DRIER, EXPANSION VALVES AND LIQUID RECEIVER.
 5. PROVIDE STARTER / DISCONNECT FOR BOTH UNITS.
 6. PROVIDE WITH LOW AMBIENT KIT.
 7. PROVIDE WALL MOUNTED CONTROLLER BY UNIT MANUFACTURER.
 8. OUTDOOR UNIT SHALL BE WALL MOUNTED. PROVIDE WITH MANUFACTURER'S WALL MOUNT BRACKET.

UNIT NUMBER	LOCATION	TYPE	INDOOR UNIT						OUTDOOR UNIT				ELECTRICAL DATA (AS STANDARD)						REMARKS				
			COOLING DATA			HEATING DATA			UNIT NUMBER	NOMINAL TONNAGE	SEER	WEIGHT (LBS.)	V	P	H	MCA	MOCP	MANUFACTURER		MODEL			
			TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	REFRIG TYPE	EAT (DEG F) DB	WB	DB													TOTAL CAPACITY (MBH)	EAT (DEG F)	AIRFLOW (CFM)
FCU-G01	2K04 - IDF	DUCTLESS	18.0	13.2	R410A	80	67	95	22.0	60	455	CJ-G01	1.5	19.8	100	208	1	60	12	15	DAIKIN	TKPAA018 / TRUZA018	1 - 8
FCU-G02	2K02 - ELEC	DUCTLESS	18.0	13.2	R410A	80	67	95	22.0	60	455	CJ-G02	1.5	21	100	208	1	60	12	15	DAIKIN	TKPAA018 / TRUZA018	1 - 8
FCU-G02A	2K03 - ELEC	DUCTLESS	12.0	10.6	R410A	80	67	95	14.0	60	455	CJ-G02A	1	21	93	208	1	60	12	15	DAIKIN	TKPAA012 / TRUZA012	1 - 8
FCU-G03	2M01 - ELEC	DUCTLESS	18.0	13.2	R410A	80	67	95	22.0	60	455	CJ-G03	1.5	19.8	100	208	1	60	12	15	DAIKIN	TKPAA018 / TRUZA018	1 - 8
FCU-G03A	2M02 - ELEC	DUCTLESS	12.0	10.6	R410A	80	67	95	14.0	60	455	CJ-G03A	1	21.0	93	208	1	60	12	15	DAIKIN	TKPAA012 / TRUZA012	1 - 8
FCU-G04	2M03 - IDF	DUCTLESS	18.0	13.2	R410A	80	67	95	22.0	60	455	CJ-G04	1.5	19.8	100	208	1	60	12	15	DAIKIN	TKPAA018 / TRUZA018	1 - 8
FCU-G05	4K03 - IDF	DUCTLESS	18.0	13.2	R410A	80	67	95	22.0	60	455	CJ-G05	1.5	19.8	100	208	1	60	12	15	DAIKIN	TKPAA018 / TRUZA018	1 - 8
FCU-G06	4K02 - ELEC	DUCTLESS	12.0	10.6	R410A	80	67	95	14.0	60	455	CJ-G06	1	21	93	208	1	60	12	15	DAIKIN	TKPAA012 / TRUZA012	1 - 8
FCU-G07	4M01 - ELEC	DUCTLESS	12.0	10.6	R410A	80	67	95	14.0	60	455	CJ-G07	1	21.0	93	208	1	60	12	15	DAIKIN	TKPAA012 / TRUZA012	1 - 8
FCU-G08	4M02 - IDF	DUCTLESS	18.0	13.2	R410A	80	67	95	22.0	60	455	CJ-G08	1.5	19.8	100	208	1	60	12	15	DAIKIN	TKPAA018 / TRUZA018	1 - 8
FCU-G09	1K02A - ELEV CONTRL	DUCTLESS	24.0	18.5	R410A	80	67	95	28.0	60	775	CJ-G09	2	21.4	193	208	1	60	20	25	DAIKIN	TKPAA024 / TRUZA024	1 - 8
FCU-G10	2M04 - ELEV CONTRL	DUCTLESS	24.0	18.5	R410A	80	67	95	28.0	60	775	CJ-G10	2	21.4	193	208	1	60	20	25	DAIKIN	TKPAA024 / TRUZA024	1 - 8



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VANDERWEIL
 P.C. Vanderweil Engineers, LLP
 274 Summer Street
 Boston, MA 02210
 617.433.2423 TEL
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 vanderweil.com

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 DRAWN MWM
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 REVISIONS
 G1 2022-1214 PARKING GARAGE VE

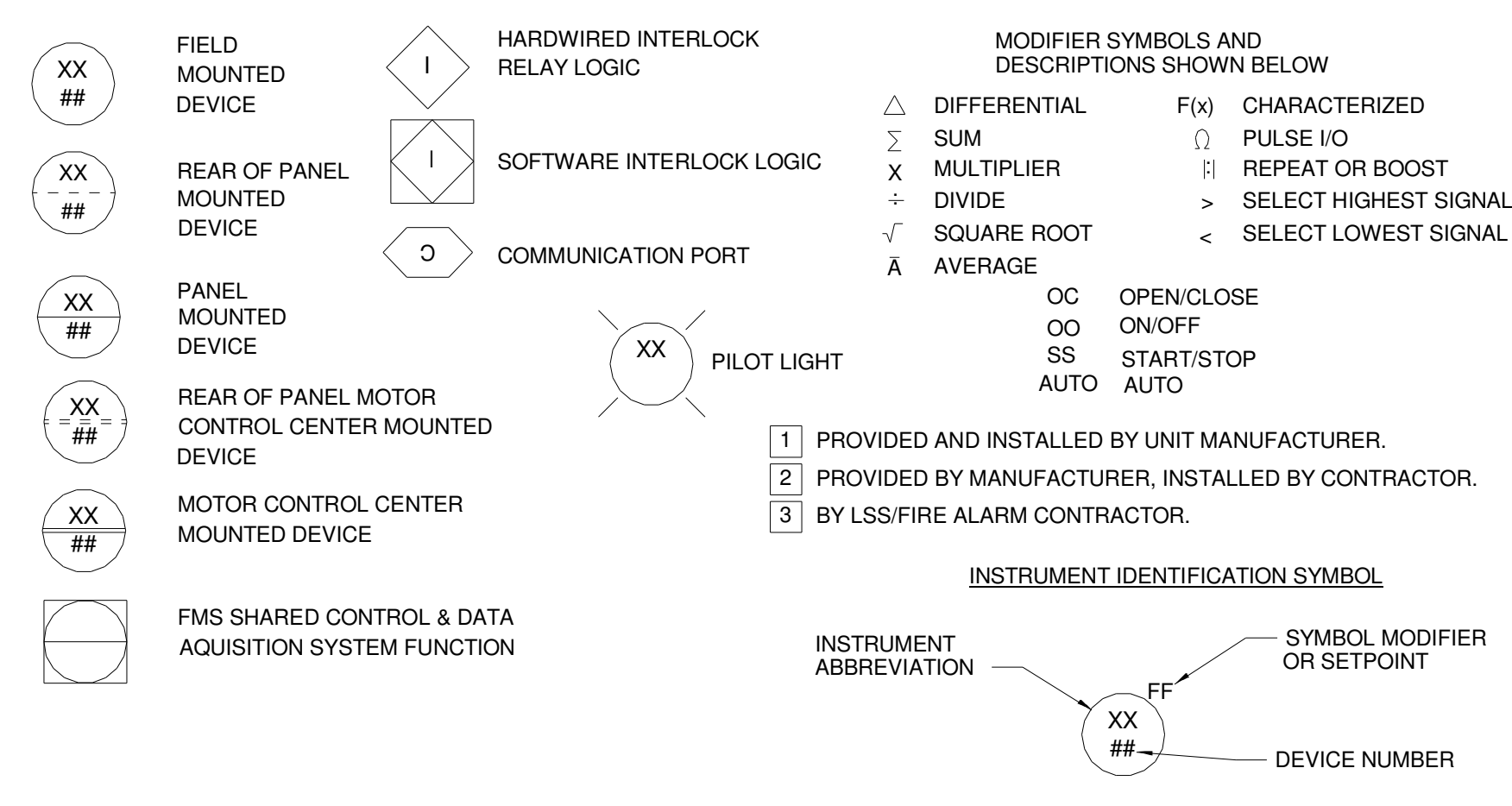
HVAC SCHEDULES AND DETAILS - GARAGE

M-600

INSTRUMENT IDENTIFICATION LETTERS				
FIRST LETTER(S)		SUCCEEDING LETTERS		
PROCESS OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A ANALYSIS		ALARM		
B BURNER FLAME		USERS CHOICE(*)	USERS CHOICE(*)	USERS CHOICE(*)
C CARBON DIOXIDE			CONTROL	
D DENSITY (S.G.)/DEWPOINT	DIFFERENTIAL		DAMPER	
E VOLTAGE		SENSOR (PRIMARY ELEMENT)		
F FLOW RATE	RATIO			
G GAUGE		GLASS	GATE	
H HAND (MANUAL)				HIGH
I CURRENT		INDICATE		
J POWER	SCAN			
K TIME OR SCHEDULE	RATE OF CHANGE		CONTROL STATION	
L LEVEL		LIGHT (PILOT)		LOW
M MOTION/MOISTURE	MOMENTARY			
N DIAL VOLATILE OR GAME COMPUTER		USERS CHOICE(*)	USERS CHOICE(*)	USERS CHOICE(*)
O OXYGEN		OXYGEN		
P PRESSURE (OR VACUUM)		POINT (TEST CONNECTION)		
Q QUANTITY (OR EVENT*)	INTEGRATE			
R RADIATION		RECORD OR PRINT		
S SPEED OR FREQUENCY	SAFETY		SWITCH	
T TEMPERATURE			TRANSMIT	
U MULTIVARIABLE(*)		MULTIFUNCTION(*)	MULTIFUNCTION(*)	MULTIFUNCTION(*)
V VIBRATION, MECH ANALYSIS			VALVE	
W WEIGHT OR FORCE		WELL		
X CARBON MONOXIDE		UNCLASSIFIED(*)	TRANSFORMER	UNCLASSIFIED(*)
Y EVENT (STATUS)			RELAY OR COMPUTER*	
Z POSITION, DIMENSION			DRIVER, ACTUATOR OR UNCLASSIFIED FINAL CONTROL ELEMENT	

(*) WHEN USED, EXPLANATION IS SHOWN ADJACENT TO INSTRUMENT SYMBOL. SEE ABBREVIATIONS AND LETTER SYMBOLS. EXAMPLE: PT=PRESSURE TRANSMITTER, HS=HAND SWITCH

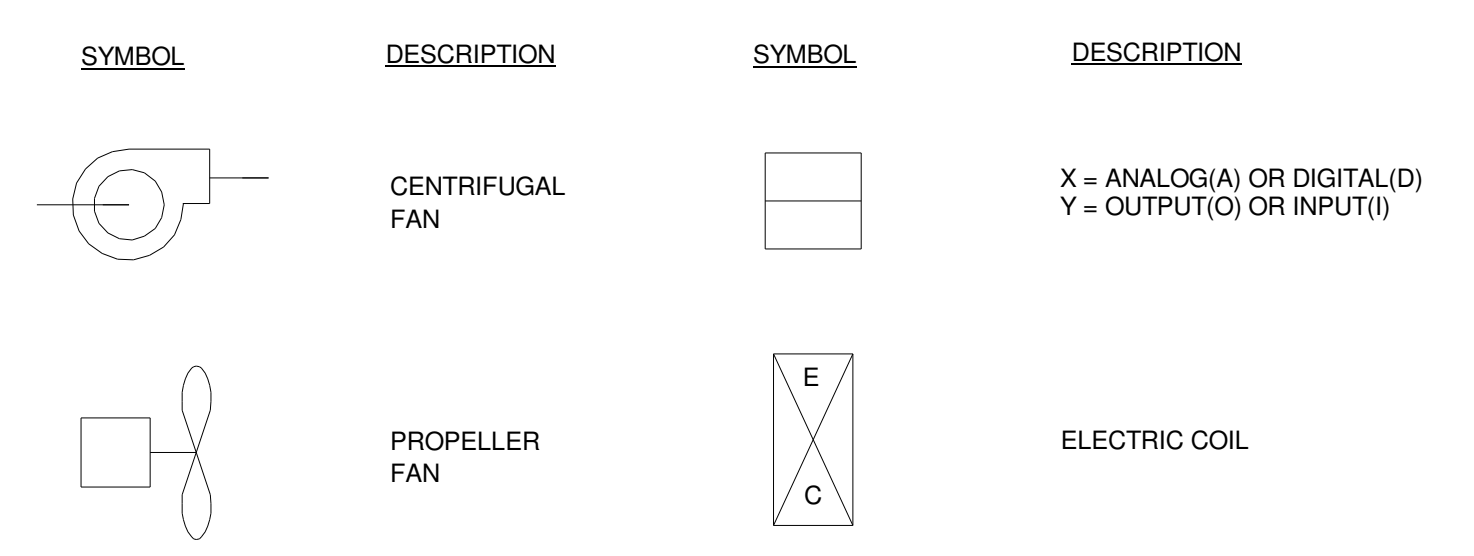
GENERAL INSTRUMENT / FUNCTION SYMBOLS



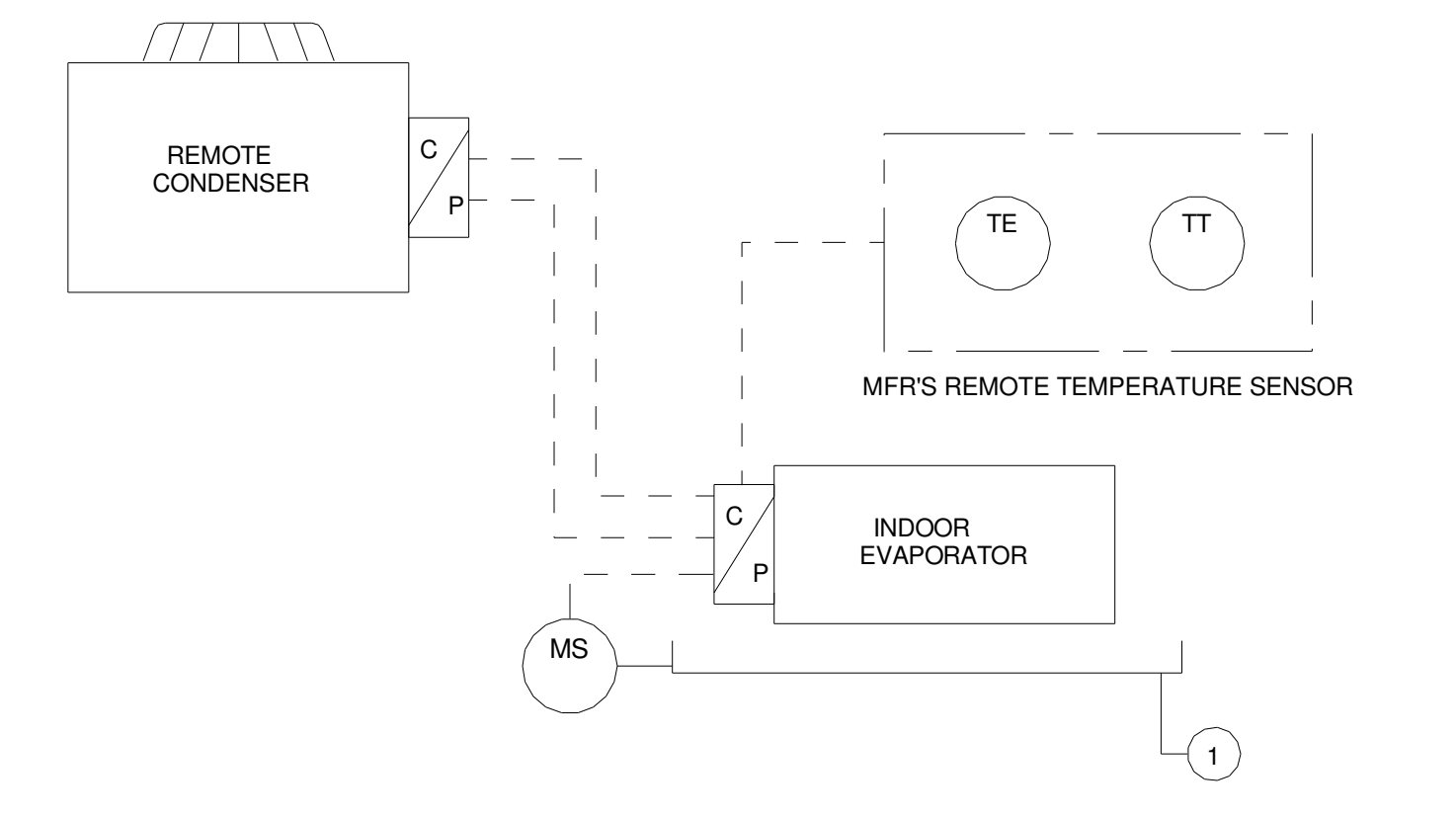
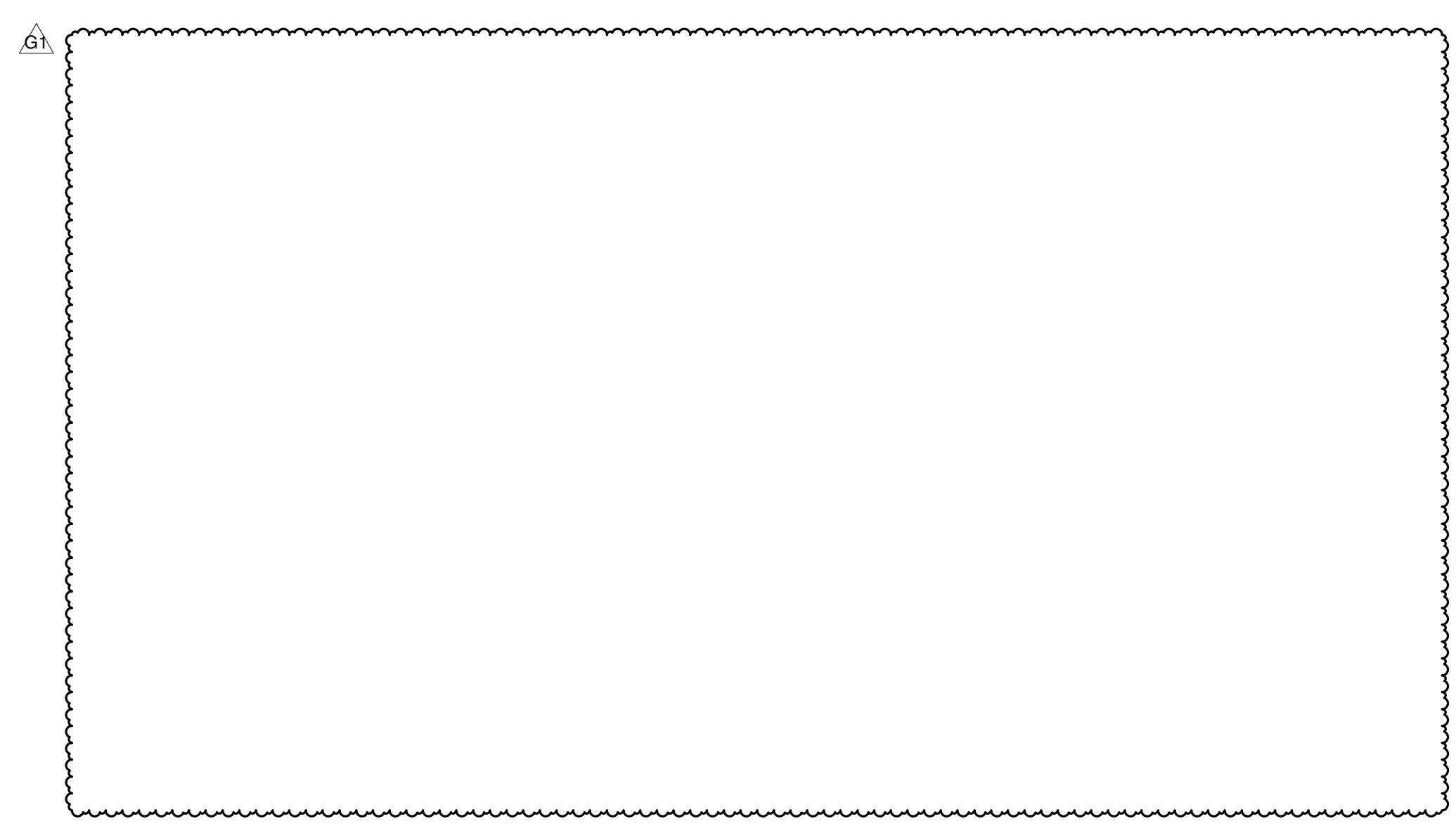
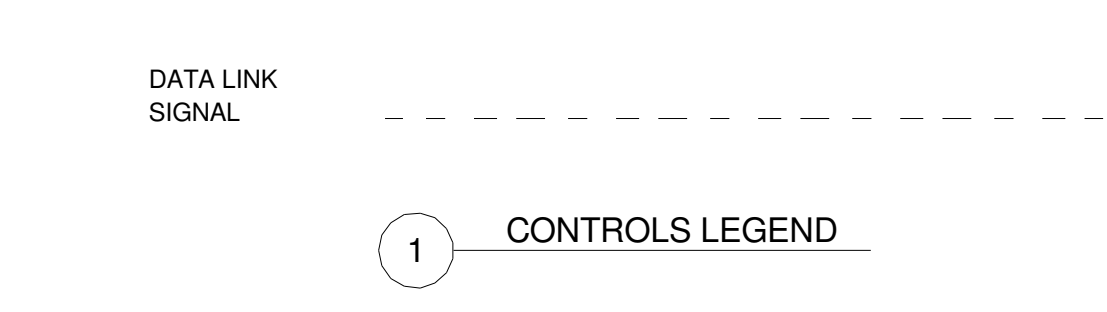
SEQUENCE OF CONTROLS - GENERAL

- SEQUENCES OUTLINED (UNLESS OTHERWISE SPECIFIED) SHALL BE STANDALONE CONTROLS FOR EACH INDIVIDUAL PIECE OF EQUIPMENT.
- UNLESS NOTED OTHERWISE THE FOLLOWING SHALL BE THE SPACE TEMPERATURE SETPOINTS:
 - ELEC:
 - COOLING: 80 DEGREES F (ADJ.)
 - HEATING: 60 DEGREES F (ADJ.)
 - IDF:
 - COOLING: 70 DEGREES F (ADJ.)
 - HEATING: 60 DEGREES F (ADJ.)

EQUIPMENT SYMBOLS



PIPING AND CONNECTIONS



- KEY NOTES:
- ALL COOLING COILS ARE PROVIDED WITH AN OVERFLOW SWITCH. DETECTION OF WATER (MS-1) SHOULD DE-ENERGIZE UNIT.
- SEQUENCE OF OPERATIONS
- A. GENERAL
- THE AC UNITS SHALL BE CONTROLLED BY THE PACKAGED CONTROL SYSTEM PROVIDED BY THE AC UNIT MANUFACTURER.
 - THE AC UNITS SHALL OPERATE 24 / 7 AND SHALL MODULATE TO MAINTAIN THE COOLING/HEATING SETPOINT.
 - TEMPERATURE SETTINGS SHALL BE AS NOTED IN THE GENERAL NOTES.

1 SPLIT AC UNIT CONTROLS CONTROL DIAGRAM & SEQUENCE

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VANDERWEIL
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G1	2022-1214 PARKING GARAGE VE

HVAC CONTROLS - GARAGE

M-800

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