

IFSA - GUARANTEED RATE FIELD - SOUND ROOM COOLING

333 W 35TH STREET
CHICAGO, ILLINOIS 60616

MECHANICAL SYMBOLS			
PIPING		DUCTWORK	
	NEW PIPING		NEW DUCTWORK
	EXISTING PIPING TO REMAIN		EXISTING DUCTWORK TO REMAIN
	EXISTING PIPING TO BE DEMOLISHED		EXISTING DUCTWORK TO BE DEMOLISHED
	BALL VALVE		ACCESS DOOR
	BUTTERFLY VALVE		AUTOMATIC CONTROL (OR MOTOR OPERATED) DAMPER
	CHECK VALVE		DIRECTION OF AIRFLOW
	CIRCUIT SETTER BALANCING VALVE		DUCTWORK BREAK LINE (OR CONTINUATION)
	DIRECTION OF FLOW		FIRE DAMPER
	DIRECTION OF PIPE PITCH, DOWN		FLEXIBLE DUCTWORK CONNECTION
	DRAIN VALVE WITH 3/4" THREADED HOSE ADAPTOR		
	FLEXIBLE PIPE CONNECTOR (OR CONNECTION)		
	FLOW SWITCH		
	GATE VALVE		
	GLOBE VALVE		
	MANUAL AIR VENT		
	MANUAL THREE-WAY, TWO-POSITION VALVE		
	NEEDLE VALVE		
	NEW PIPE CONNECTION		
	PIPE BREAK		
	PIPE CAP		
	PIPE DROP/RISE		
	PIPE ELBOW, 45° HORIZONTAL		
	PIPE ELBOW, 90° HORIZONTAL		
	PIPE ELBOW, DOWN AND 90° HORIZONTAL		
	PIPE ELBOW, TURNED DOWN		
	PIPE ELBOW, TURNED UP		
	PIPE SLEEVE		
	PIPE TEE, BOTTOM CONNECTION, 45° OR 90° ELBOW		
	PIPE TEE, DOWN		
	PIPE TEE, HORIZONTAL		
	PIPE TEE, TOP CONNECTION, 45° OR 90° ELBOW		
	PIPE TEE, UP		
	PIPE UNION		
	PIPE WELL		
	PRESSURE GAUGE		
	PUMP		
	STRAINER		
	TEST PLUG		
	THERMOMETER		
	THREE-WAY, MODULATING AUTOMATIC CONTROL VALVE		
	THREE-WAY, TWO-POSITION AUTOMATIC CONTROL VALVE		
	TRIPLE DUTY VALVE		
	TWO-WAY, MODULATING AUTOMATIC CONTROL VALVE		
	TWO-WAY, TWO-POSITION AUTOMATIC CONTROL VALVE		

NOTE: NOT ALL SYMBOLS LISTED ABOVE MAY BE USED OR APPEAR IN THESE DRAWINGS.

CITY OF CHICAGO NOTES			
A. ALL WORK SHALL BE IN ACCORDANCE WITH THE CITY OF CHICAGO BUILDING CODE REQUIREMENTS.	F. ALL OUTSIDE AIR INTAKES SHALL BE A MINIMUM DISTANCE OF 15'-0" FROM ANY EXHAUST LOUVERS, PLUMBING VENTS, OR ANY OTHER POSSIBLE CONTAMINANTS AND SHALL BE A MINIMUM DISTANCE OF 10'-0" ABOVE GRADE.	G. IF FLEXIBLE DUCTS ARE USED, DO NOT EXCEED 5'-0" IN LENGTH. ALL FLEXIBLE DUCTWORK TO BE CITY OF CHICAGO APPROVED.	H. NOISE FROM ALL MECHANICAL EQUIPMENT INSTALLED SHALL NOT EXCEED 55 DB AT THE PROPERTY LINE.
B. ALL EQUIPMENT FURNISHED AND INSTALLED SHALL BE IN FULL COMPLIANCE WITH THE CURRENT STANDARDS SET BY THE CITY OF CHICAGO DEPARTMENT OF INSPECTIONAL SERVICES.			I. CLEARANCES FOR ALL VENTILATION EQUIPMENT MUST CONFORM TO MANUFACTURER'S REQUIREMENTS.
C. ALL NEW DUCTWORK INSTALLED SHALL BE OF GALVANIZED METAL. ALL SHEET METAL INSTALLATION SHALL COMPLY WITH THE LATEST STANDARDS OF SMACNA AND ASHRAE.			
D. ALL DUCT JOINTS, SEAMS, AND CONNECTIONS SHALL BE SEALED IN ACCORDANCE WITH THE CHICAGO ENERGY CONSERVATION CODE.			
E. ALL NEW EQUIPMENT PROVIDED SHALL BE U.L. LISTED AND SHALL BEAR THE U.L. LABEL.			

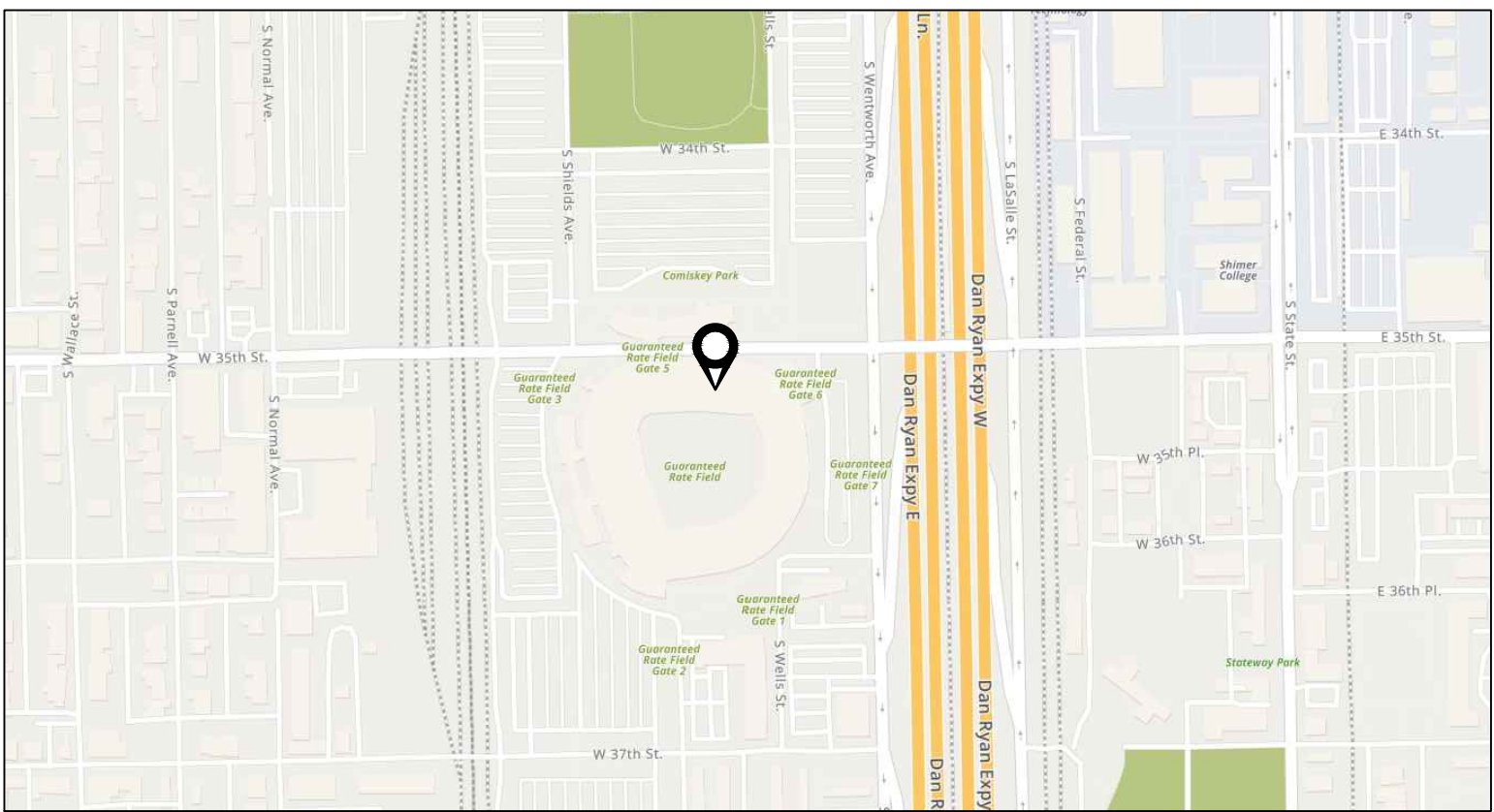
ABBREVIATIONS			
AC	AIR CONDITIONER	FV	FACE VELOCITY
ACD	AUTOMATIC CONTROL DAMPER	G	GAS
AD	ACCESS DOOR	GA	GAUGE
AFF	ABOVE FINISHED FLOOR	GPM	GALLONS PER MINUTE
AHU	AIR HANDLING UNIT	HC	HEATING COIL
AP	ACCESS PANEL	HP	HORSEPOWER
APD	AIR PRESSURE DROP	HZ	HERTZ
BAS	BUILDING AUTOMATION SYSTEM	IPV	INTEGRATED PART LOAD VALVE
BASC	BUILDING AUTOMATION SYSTEM CONTRACTOR	LAT	LEAVING AIR TEMPERATURE
BFV	BUTTERFLY VALVE	LPS	LOW PRESSURE STEAM
BHP	BRAKE HORSEPOWER	LWT	LEAVING WATER TEMPERATURE
BOD	BOTTOM OF DUCT	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
BOI	BOTTOM OF INSULATION	MC	MECHANICAL CONTRACTOR
BOP	BOTTOM OF PIPE	MCA	MINIMUM CIRCUIT AMPACITY
BT	BUFFER TANK	MOCP	NORMAL OVER-CURRENT PROTECTION
BTU	BRITISH THERMAL UNIT	NC	NORMALLY CLOSED
BTUH	BRITISH THERMAL UNIT PER HOUR	NC	NOT IN CONTRACT
BV	BALL VALVE	NK	NICK
C	COMMON	NO	NORMALLY OPEN
CBV	CIRCUIT BALANCING VALVE	NPSH	NET POSITIVE SUCTION HEAD
CC	COOLING COIL	NTS	NOT TO SCALE
CF	CHEMICAL FEED	OA	OUTDOOR AIR
CFH	CUBIC FEET PER HOUR	OAD	OUTDOOR AIR DAMPER
CFM	CUBIC FEET PER MINUTE	OSD	OPEN SITE DRAIN
CHWR	CHILLED WATER RETURN	P	PUMP
CHWS	CHILLED WATER SUPPLY	PD	PRESSURE DROP
CLEANOUT	CLEANOUT	PG	PROPYLENE GLYCOL
COND	CONDENSATE	PHC	PREHEAT COIL
CONV	CONVECTOR	PRD	PRESSURE RELIEF DOOR
COP	COEFFICIENT OF PERFORMANCE	PRV	PRESSURE REDUCING (OR REGULATING) VALVE
CO2	CARBON DIOXIDE	PS	PIRE SLEEVE
CR	CONDENSATE RETURN	PSI	POUNDS PER SQUARE INCH
CU	CONDENSING UNIT	R	RETURN
CV	CONTROL VALVE	RA	RETURN AIR
CW	COLD (OR CITY) WATER	RF	RETURN FAN
CWR	CONDENSER WATER RETURN	RH	REHEAT
CWS	CONDENSER WATER SUPPLY	RS	REFRIGERANT LIQUID
D	DRAIN	RS	REFRIGERANT SUCTION
DB	DRY BULB	RPM	REVOLUTIONS PER MINUTE
DHW	DOMESTIC HOT WATER	SA	SUPPLY AIR
DHWR	DOMESTIC HOT WATER RETURN	SCAC	SELF CONTAINED AIR CONDITIONER
DN	DOWN	SEER	SEASONAL ENERGY EFFICIENCY RATIO
DPT	DIFFERENTIAL PRESSURE TRANSDUCER	SF	SUPPLY FAN
E	EXHAUST	SP	STATIC PRESSURE
EA	EXHAUST AIR	SS	STAINLESS STEEL
EAD	EXHAUST AIR DAMPER	SST	SATURATED SUCTION TEMPERATURE
EAT	ENTERING AIR TEMPERATURE	ST	STORM
EBH	ELECTRIC BASEBOARD HEAT	STR	STRAINER
ECM	ELECTRICALLY COMMUTATED MOTOR	SUH	SUSPENDED UNIT HEATER
EDH	ELECTRIC DUCT HEATER	T	THERMOSTAT
EE	ENERGY EFFICIENCY RATIO	-T	TRANSFER
EF	EXHAUST FAN	TDH	TOTAL DYNAMIC HEAD
EG	ETHYLENE GLYCOL	TYP	TYPICAL
EHC	ELECTRIC HEATING COIL	TFA	TO FLOOR ABOVE
EJ	EXPANSION JOINT	TFB	TO FLOOR BELOW
ESP	EXTERNAL STATIC PRESSURE	TSP	TOTAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE	UC	UNDERCUT DOOR
F	FAHRENHEIT	UH	UNIT HEATER
FC	FLEXIBLE CONNECTOR (OR CONNECTION)	V	VENT
FD	FLOOR DRAIN	VAV	VARIABLE AIR VOLUME
FCU	FAN COIL UNIT	VD	VOLUME DAMPER
FID	FIRE DAMPER	VFD	VARIABLE FREQUENCY DRIVE
FFA	FROM FLOOR ABOVE	VTR	VENT THROUGH ROOF
FFB	FROM FLOOR BELOW	WB	WET BUILD
FLA	FULL LOAD AMPS	WC	WATER COLUMN
FOB	FLAT ON BOTTOM	WG	WATER GAUGE
FOT	FLAT ON TOP	WL	WALL LOUVER
FPI	FPS PER INCH	WMS	WIRE MESH SCREEN
FPM	FEET PER MINUTE	WPD	WATER PRESSURE DROP
FTR	FINNED TUBE RADIATION		

NOTE: NOT ALL ABBREVIATIONS LISTED ABOVE MAY BE USED OR APPEAR IN THESE DRAWINGS.

PROJECT SCOPE OF WORK	
THE SCOPE OF WORK FOR THIS PROJECT CONTAINS, BUT IS NOT LIMITED TO THE FOLLOWING:	
1. SUPPLEMENTAL COOLING IN SOUND ROOM B	
1.a. PROVIDE (2) NEW INDOOR HEAT PUMP DUCTLESS COOLING UNITS TO SERVE AS SUPPLEMENTAL COOLING TO THE SOUND ROOM. COOLING SHALL BE SUPPLEMENTAL TO EXISTING AHU TO REMAIN.	
1.b. PROVIDE (2) NEW OUTDOOR HEAT PUMPS OF ROOF. ROUTE REFRIGERANT PIPING BETWEEN NEW OUTDOOR AND INDOOR UNIT.	
2. SUPPLEMENTAL COOLING IN SOUND ROOM D	
2.a. PROVIDE (3) NEW INDOOR HEAT PUMP DUCTLESS COOLING UNITS TO SERVE AS SUPPLEMENTAL COOLING TO THE SOUND ROOM. COOLING SHALL BE SUPPLEMENTAL TO EXISTING AHU TO REMAIN.	
2.b. PROVIDE (3) NEW OUTDOOR HEAT PUMPS OF ROOF. ROUTE REFRIGERANT PIPING BETWEEN NEW OUTDOOR AND INDOOR UNIT.	
3. SUPPLEMENTAL COOLING IN SOUND ROOM F	
3.a. PROVIDE (2) NEW INDOOR HEAT PUMP DUCTLESS COOLING UNITS TO SERVE AS SUPPLEMENTAL COOLING TO THE SOUND ROOM. COOLING SHALL BE SUPPLEMENTAL TO EXISTING AHU TO REMAIN.	
3.b. PROVIDE (2) NEW OUTDOOR HEAT PUMPS OF ROOF. ROUTE REFRIGERANT PIPING BETWEEN NEW OUTDOOR AND INDOOR UNIT.	
4. SUPPLEMENTAL COOLING IN SOUND ROOM J	
4.a. PROVIDE (2) NEW INDOOR HEAT PUMP DUCTLESS COOLING UNITS TO SERVE AS SUPPLEMENTAL COOLING TO THE SOUND ROOM. COOLING SHALL BE SUPPLEMENTAL TO EXISTING AHU TO REMAIN.	
4.b. PROVIDE (2) NEW OUTDOOR HEAT PUMPS OF ROOF. ROUTE REFRIGERANT PIPING BETWEEN NEW OUTDOOR AND INDOOR UNIT.	

SHEET LIST TABLE	
Sheet Number	Sheet Title
MECHANICAL	
M0.001	MECHANICAL NOTES, SYMBOLS, AND ABBREVIATIONS
M1.101	MECHANICAL PLAN - LEVEL 100 AND 200 - SECTION 1
M1.304	MECHANICAL PLAN - LEVEL 300 - SECTION 4
M1.306	MECHANICAL PLAN - LEVEL 300 - SECTION 6
M1.309	MECHANICAL PLAN - LEVEL 300 - SECTION 9
M2.001	MECHANICAL SPECIFICATION, DETAILS, AND SCHEDULES

SHEET LIST TABLE	
Sheet Number	Sheet Title
ELECTRICAL - NEW SET	
E1.101	ELECTRICAL PLAN - LEVEL 100 AND 200 - SECTION 1
E1.304	ELECTRICAL PLAN - LEVEL 300 - SECTION 4
E1.306	ELECTRICAL PLAN - LEVEL 300 - SECTION 6
E1.308	ELECTRICAL PLAN - LEVEL 300 - SECTION 8
E1.309	ELECTRICAL PLAN - LEVEL 300 - SECTION 9
E2.001	ELECTRICAL SINGLE LINES
E2.002	ELECTRICAL SINGLE LINES
E3.001	ELECTRICAL SPECIFICATIONS



1 LOCATION MAP
SCALE: NO SCALE

ENERGY CODE COMPLIANCE STATEMENT

I certify that I am a Registered Energy Professional (REP). I also certify that to the best of my professional knowledge and belief that the plans for Address: 333 W. 35TH ST., CHICAGO, IL 60616

Fully comply with the requirements of Chapter 18-13, Energy Conservation of the Municipal Code of Chicago as effective April 22, 2009

Signed: (Arch. S.E. or P.E.) Date: 01/21/2025

Illinois License Number: 062-056281

CHICAGO BUILDING CODE COMPLIANCE STATEMENT

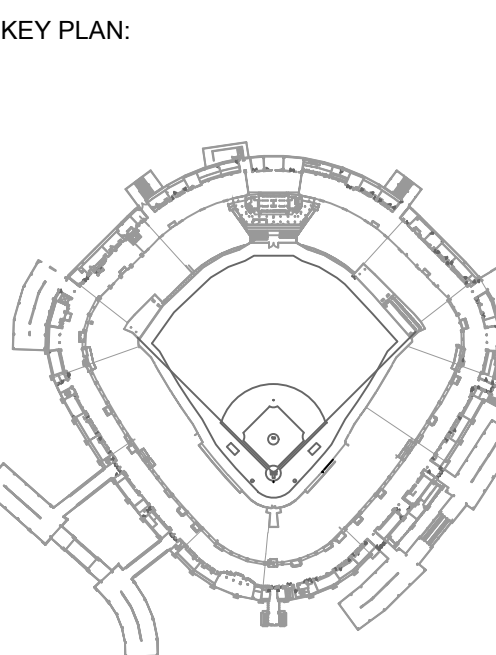
I hereby certify that these plans were prepared under my direct supervision and to the best of my professional knowledge they conform to the Chicago Building Code.

Signed: (Arch. S.E. or P.E.) Date: 01/21/2025

HEATING CERTIFICATION STATEMENT

I hereby certify that the heating system will heat all rooms regularly occupied by humans to an inside temperature of 68° when the outside temperature is minus 10°F (As required by the Sections 34 (13-196-410) and 4 (5-4-270) of the 2010 Chicago Building Code and by Paragraph 1204.1 of Chapter 18-12 (Interior Environment) of the proposed Building Planning and Life Safety portion of the Code).

Signed: (Owner, Contractor, or Owner's Licensed Engineer Representative)



ISSUE/REVISION:

REV.	DATE	DESCRIPTION
01/21/2025		ISSUED FOR BID

PROJECT: GUARANTEED RATE FIELD - SOUND ROOM COOLING

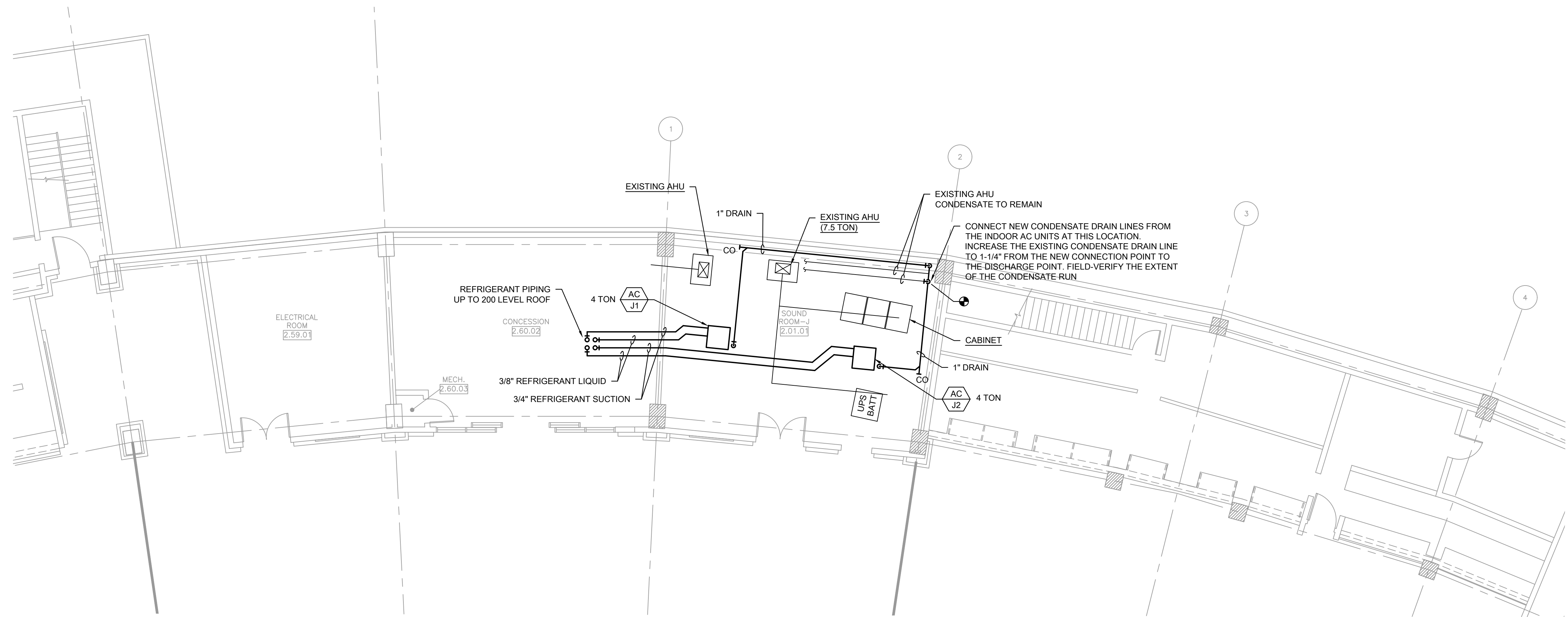
333 W 35TH STREET, CHICAGO, ILLINOIS 60616

DRAWING TITLE: MECHANICAL NOTES, SYMBOLS, AND ABBREVIATIONS

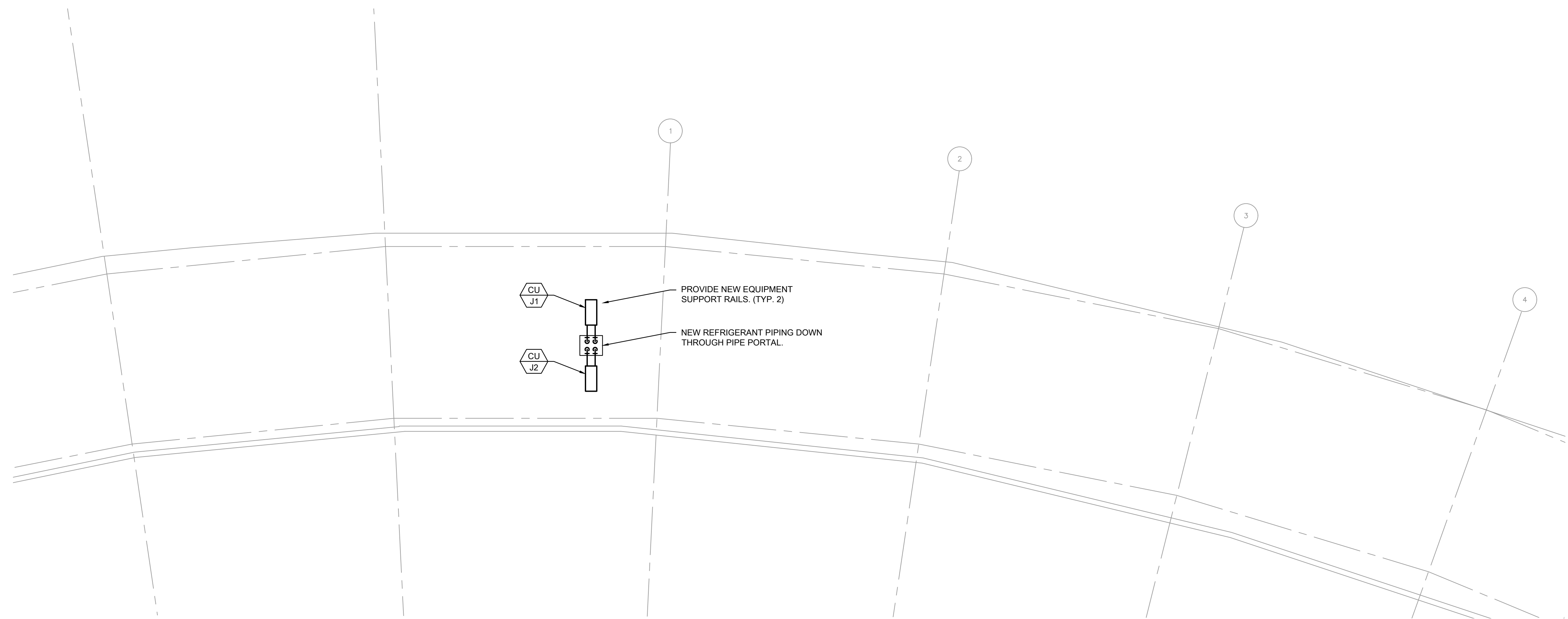
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CHECKED BY: JG
PROJECT NO: 23504
SCALE: 1/8" = 1'-0"

SHEET NO.

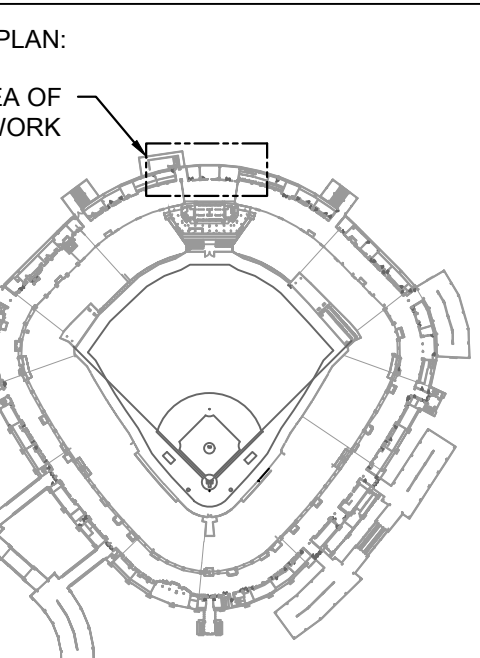
M0.001



1 MECHANICAL PLAN - 100 LEVEL - SECTION 1 ENLARGED



2 MECHANICAL PLAN - 200 LEVEL - SECTION 1 ENLARGED



ISSUE/REVISION:		
REV.	DATE	DESCRIPTION
01/23/2020		ISSUED FOR BID

PROJECT:
GUARANTEED RATE FIELD -
SOUND ROOM COOLING

333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
MECHANICAL PLAN - LEVEL
100 AND 200 - SECTION 1

DESIGNED BY: CC
CHECKED BY: JG
PROJECT NO: 23504
SCALE: 1/8" = 1'-0"

SHEET NO.

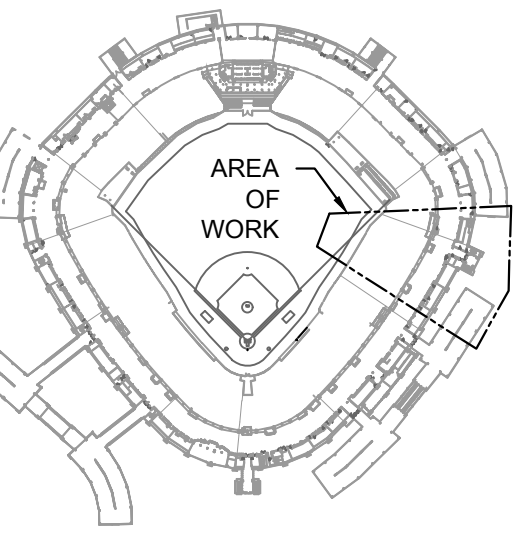
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1 MECHANICAL PLAN - 300 LEVEL - SECTION 4 ENLARGED

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

KEY PLAN:



ISSUE/REVISION:

REV.	DATE	DESCRIPTION
01/23/2020		ISSUED FOR BID

PROJECT:
GUARANTEED RATE FIELD -
SOUND ROOM COOLING

333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
MECHANICAL PLAN - LEVEL
300 - SECTION 4

DESIGNED BY: CC
CHECKED BY: JG
PROJECT NO: 23504
SCALE: 1/8" = 1'-0"

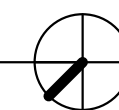
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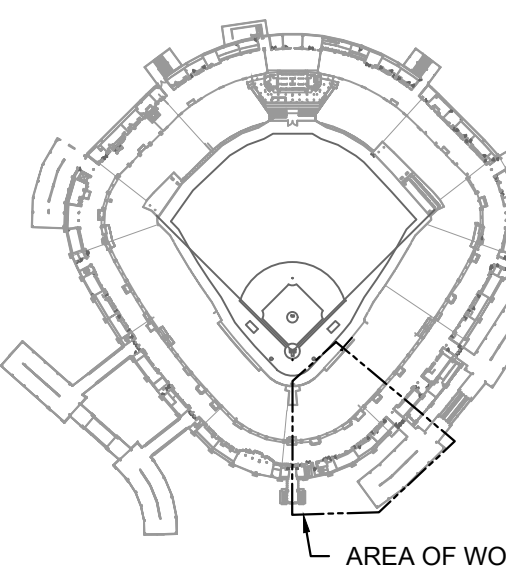


1 MECHANICAL PLAN - 300 LEVEL - SECTION 6 ENLARGED

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



KEY PLAN:



ISSUE/REVISION:

REV.	DATE	DESCRIPTION
01/23/2020		ISSUED FOR BID

PROJECT:
GUARANTEED RATE FIELD -
SOUND ROOM COOLING

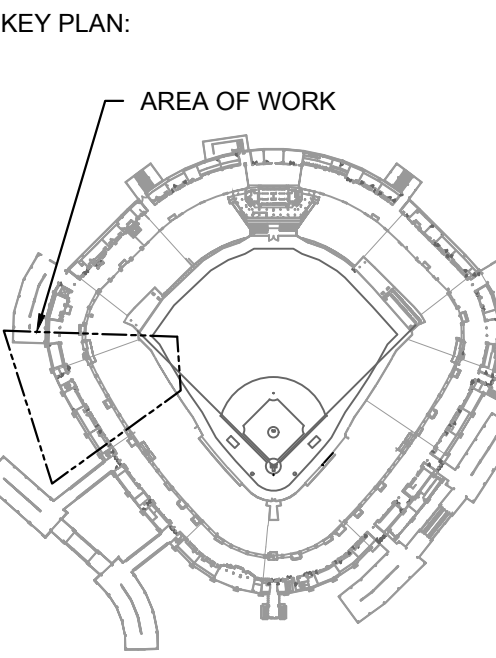
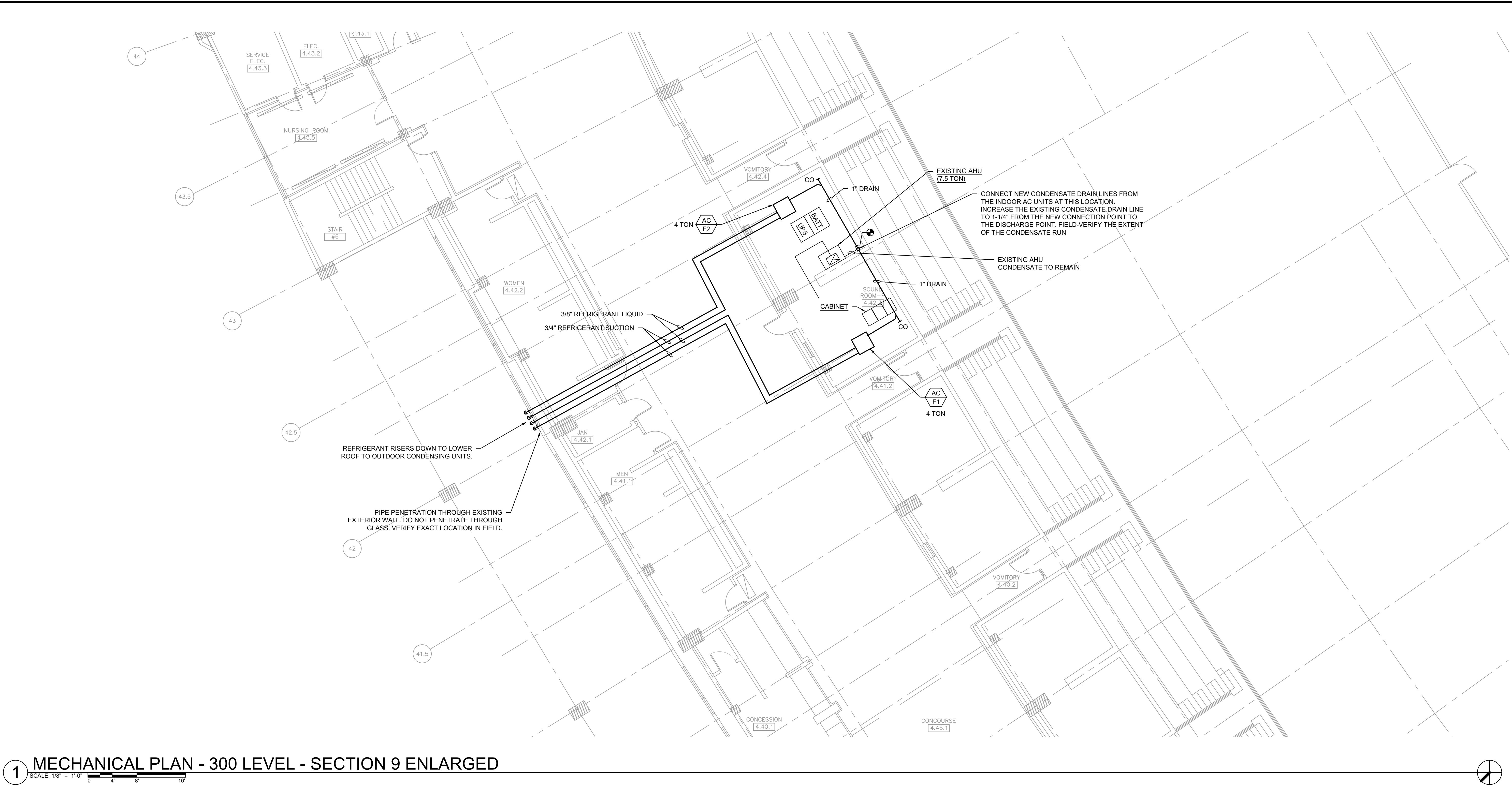
333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
MECHANICAL PLAN - LEVEL
300 - SECTION 6

DESIGNED BY: CC
CHECKED BY: JG
PROJECT NO: 23504
SCALE: 1/8" = 1'-0"

SHEET NO.

M1.306



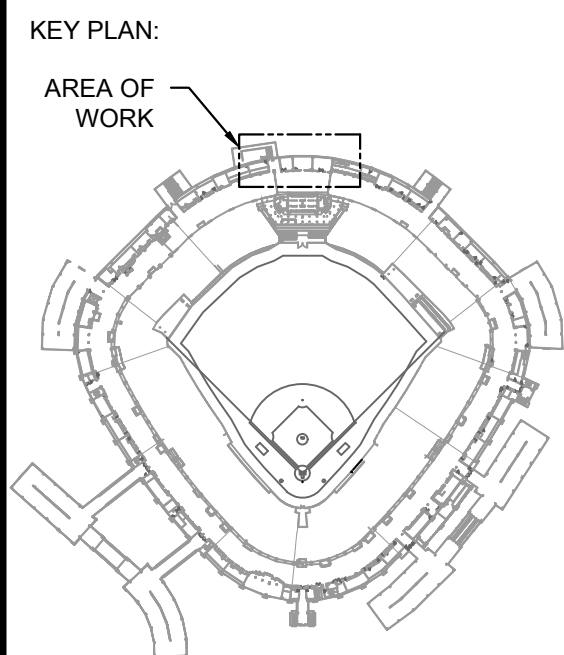
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REV.	DATE	DESCRIPTION
1	01/23/2025	ISSUED FOR BID

PROJECT:
GUARANTEED RATE FIELD -
SOUND ROOM COOLING

333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
MECHANICAL PLAN - LEVEL
300 - SECTION 9

DESIGNED BY:	CC
CHECKED BY:	JG
PROJECT NO:	23504
SCALE:	1/8" = 1'-0"
SHEET NO.	



ISSUE/REVISION:		
REV.	DATE	DESCRIPTION
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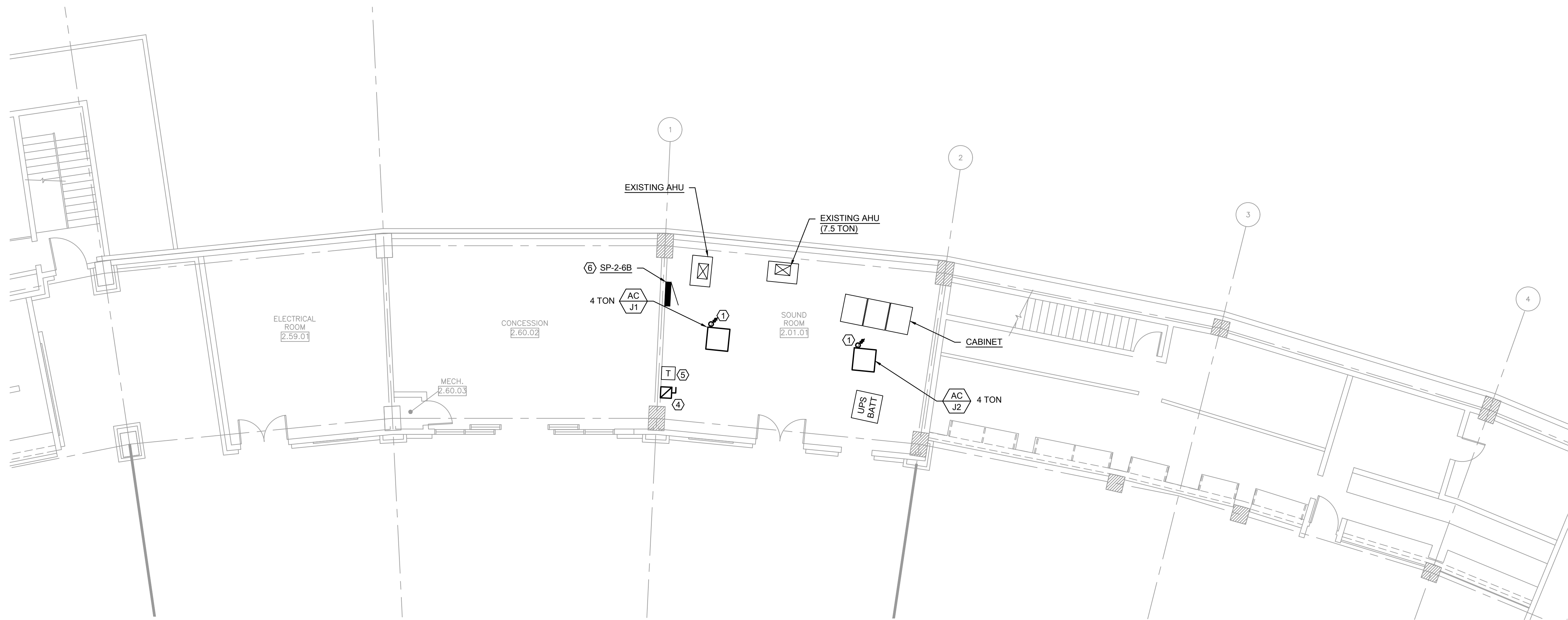
PROJECT:
GUARANTEED RATE FIELD -
SOUND ROOM COOLING

333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

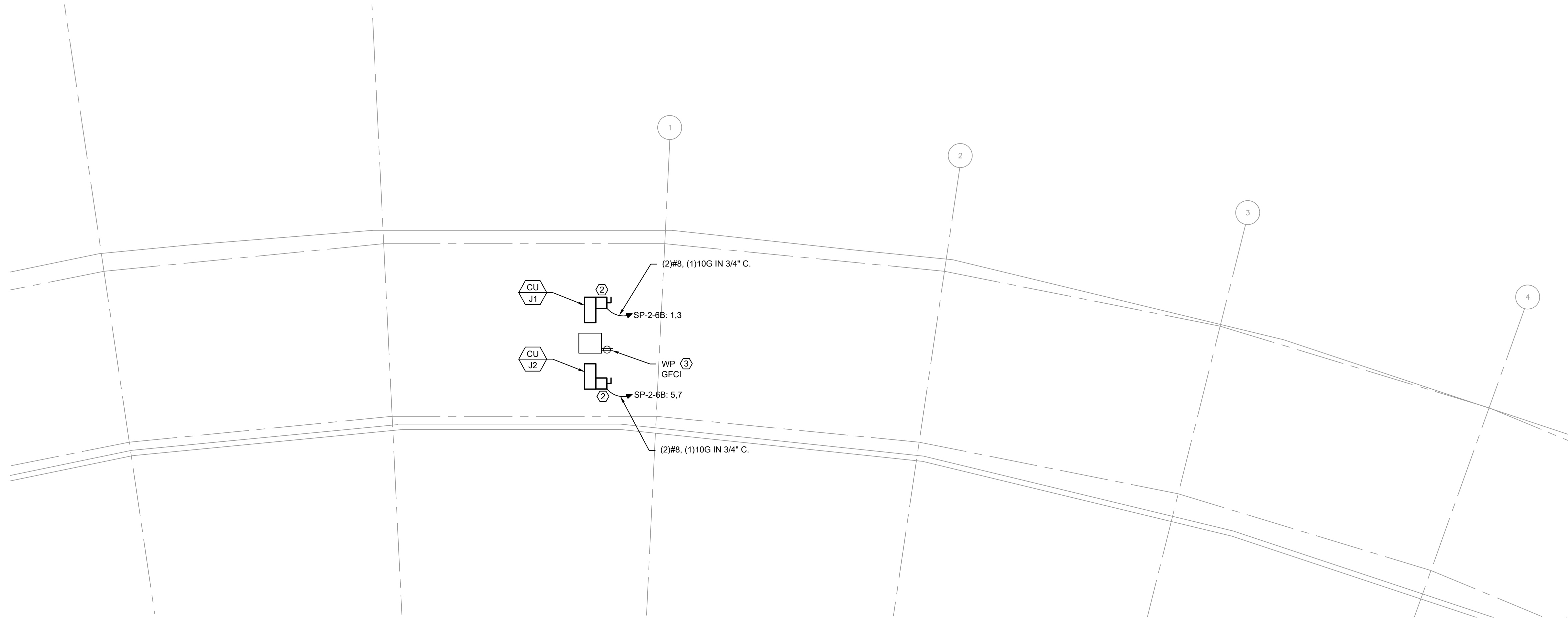
DRAWING TITLE:
ELECTRICAL PLAN - LEVEL 100
AND 200 - SECTION 1

DESIGNED BY: BT
CHECKED BY: BT
PROJECT NO: 23504
SCALE: 1/8" = 1'-0"

SHEET NO.



1 ELECTRICAL PLAN - 100 LEVEL - SECTION 1 ENLARGED



2 ELECTRICAL PLAN - 200 LEVEL - SECTION 1 ENLARGED

PANELBOARD: SP-2-6B (NEW)													
VOLTAGE: 208Y/120-3PHASE-4W										C/B TYPE		BOLT-ON	
MAIN TYPE: MAIN BREAKER										ENCLOSURE:		NEMA 1	
BUS TYPE: TIN PLATED CU										MAX. CKT. POLES:		30	
BUS AMPS.: 100 AMPS.										MOUNTING:		SURFACE	
OCPD AMPS.: 100 AMPS.										CU NEUTRAL BUS RATING:		100%	
OCPD OPT.: -										NEUTRAL BONDING		-	
INT. RATING: 22 KA										CU EQ. GND. BUS:		YES	
BUS OPT: -										INTEGRAL TVSS		-	
SERVES	A	B	C	0	1	2	3	4	5	6	7	8	9
CU-J1	3744			45	1	A			2				
		3744		3		B		4	30				
				5	7	A		8	20				
CU-J2	3744		3744	45			C	6					
				20	9		B	10	20				
				20	11		C	12	20				
SPACE				20	13	A		14	20				
SPACE				20	15		B	16	20				
SPACE				20	17		C	18	20				
SPACE				20	19	A		20	20				
SPACE				20	21		B	22	20				
SPACE				20	23		C	24	20				
SPACE				20	25	A		26	20				
SPACE				20	27		B	28	20				
SPACE				20	29		C	30	20				
	7488	3744	3744							0	0	0	
												A	7488
												B	3744
												C	3744
												TOTAL(VA)	14976
												CONNEC. AMPS	41.6

KEYED ELECTRICAL NEW WORK SHEET NOTES

- FURNISH AND INSTALL NEW 15A/2P TOGGLE DISCONNECT SWITCH WITH NEW BRANCH CIRCUIT FROM OUTDOOR CONDENSING UNIT.
- FURNISH AND INSTALL NEW 60A/2P NEMA-3R LOCAL DISCONNECT SWITCH WITH NEW BRANCH CIRCUIT FROM THE NOTED PANELBOARD AND CIRCUIT.
- FURNISH AND INSTALL NEW 20A RATED WEATHER PROOF DUPLEX RECEPTACLE. FURNISH AND INSTALL NEW BRANCH CIRCUIT FROM THE NEAREST EXISTING RECEPTACLE CIRCUIT.
- FURNISH AND INSTALL NEW DISCONNECT SWITCH WITH CONDUIT AND WIRES. REFER TO SINGLE-LINE DIAGRAM.
- FURNISH AND INSTALL NEW TRANSFORMER WITH CONDUIT AND WIRES. REFER TO SINGLE-LINE DIAGRAM. PROVIDE WALL MOUNTED BRACKET.
- FURNISH AND INSTALL NEW PANELBOARD AS SCHEDULE WITH CONDUIT AND WIRES. REFER TO SINGLE-LINE DIAGRAM.



1 ELECTRICAL PLAN - 300 LEVEL - SECTION 4 ENLARGED
SCALE 1/8" = 1'-0"

PANELBOARD: SP-1-4C (NEW)

VOLTAGE: 208Y/120-3PHASE-4W										C/B TYPE: BOLT-ON										
MAIN TYPE: MAIN BREAKER										ENCLOSURE: NEMA 1										
BUS TYPE: TIN PLATED CU										MAX. CKT. POLES: 30										
BUS AMPS.: 100 AMPS.										MOUNTING: SURFACE										
OCPD AMPS: 100 AMPS.										CU NEUTRAL BUS RATING: 100%										
OCPD OPT.: -										NEUTRAL BONDING: -										
INT. RATING: 22 KA										CU EQ. GND. BUS: YES										
BUS OPT: -										INTEGRAL TVSS: -										
SERVES	A	B	C	DB	OS	POS			POS	DB	A	B	C	SERVES						
CU-B1	3744			45	1	A			2						SPD					
		3744			3	B			4	30										
CU-B2			3744	45	5	C			6						SPACE					
	3744				7	A			8	20										
SPACE				20	9	B			10	20					SPACE					
SPACE				20	11	C			12	20					SPACE					
SPACE				20	13	A			14	20					SPACE					
SPACE				20	15	B			16	20					SPACE					
SPACE				20	17	C			18	20					SPACE					
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SPACE				20	21	B			22	20					SPACE					
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SPACE				20	25	A			26	20					SPACE					
SPACE				20	27	B			28	20					SPACE					
SPACE				20	29	C			30	20					SPACE					
	7488	3744	3744								0	0	0							
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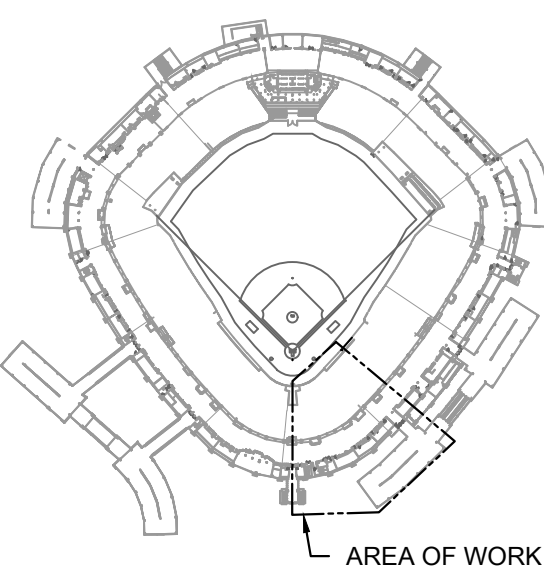


1 ELECTRICAL PLAN - 300 LEVEL - SECTION 6 ENLARGED

PANELBOARD: SP-4-4C (NEW)														
VOLTAGE: 208Y/120-3PHASE-4W										C/B TYPE BOLT-ON				
MAIN TYPE: MAIN BREAKER										ENCLOSURE: NEMA 1				
BUS TYPE: TIN PLATED CU										MAX. CKT. POLES: 30				
BUS AMPS.: 100 AMPS.										MOUNTING: SURFACE				
OCPD AMPS.: 100 AMPS.										CU NEUTRAL BUS RATING: 100%				
OCPD OPT.: -										NEUTRAL BONDING -				
INT. RATING: 22 KA										CU EQ. GND. BUS: YES				
BUS OPT: -										INTEGRAL TVSS -				
SERVES	A	B	C	PO	PO	PO	PO	PO	PO	A	B	C	SERVES	
CU-D1	3744			45	1	A		2		30				SPD
		3744			3	B		4						
CU-D2			3744	45	5		C	6						SPACE
		3744			7	A		8	20					
CU-D3		3744		45	9	B		10	20					SPACE
			3744		11		C	12	20					
SPACE				20	13	A		14	20					SPACE
SPACE				20	15	B		16	20					SPACE
SPACE				20	17		C	18	20					SPACE
SPACE				20	19	A		20	20					SPACE
SPACE				20	21	B		22	20					SPACE
SPACE				20	23		C	24	20					SPACE
SPACE				20	25	A		26	20					SPACE
SPACE				20	27	B		28	20					SPACE
SPACE				20	29		C	30	20					SPACE
	7488	7488	7488							0	0	0	A	7488
													B	7488
													C	7488
														22464
														62.4
													TOTAL(VA)	
													CONNEC. AMPS	

- KEYED ELECTRICAL NEW WORK SHEET NOTES**
- FURNISH AND INSTALL NEW 15A/2P TOGGLE DISCONNECT SWITCH WITH NEW BRANCH CIRCUIT FROM OUTDOOR CONDENSING UNIT.
 - FURNISH AND INSTALL NEW 60A/2P, NEMA-3R LOCAL DISCONNECT SWITCH WITH NEW BRANCH CIRCUIT FROM THE NOTED PANELBOARD AND CIRCUIT.
 - FURNISH AND INSTALL NEW 20A RATED WEATHER PROOF DUPLEX RECEPTACLE. FURNISH AND INSTALL NEW BRANCH CIRCUIT FROM THE NEAREST EXISTING RECEPTACLE CIRCUIT.
 - FURNISH AND INSTALL NEW DISCONNECT SWITCH WITH CONDUIT AND WIRES. REFER TO SINGLE-LINE DIAGRAM.
 - FURNISH AND INSTALL NEW TRANSFORMER WITH CONDUIT AND WIRES. REFER TO SINGLE-LINE DIAGRAM. PROVIDE WALL MOUNTED BRACKET.
 - FURNISH AND INSTALL NEW PANELBOARD AS SCHEDULE WITH CONDUIT AND WIRES. REFER TO SINGLE-LINE DIAGRAM.

KEY PLAN:



ISSUE/REVISION:

REV.	DATE	DESCRIPTION
01/03/2020		ISSUED FOR BID

PROJECT: GUARANTEED RATE FIELD - SOUND ROOM COOLING

333 W 35TH STREET, CHICAGO, ILLINOIS 60616

DRAWING TITLE: ELECTRICAL PLAN - LEVEL 300 - SECTION 6

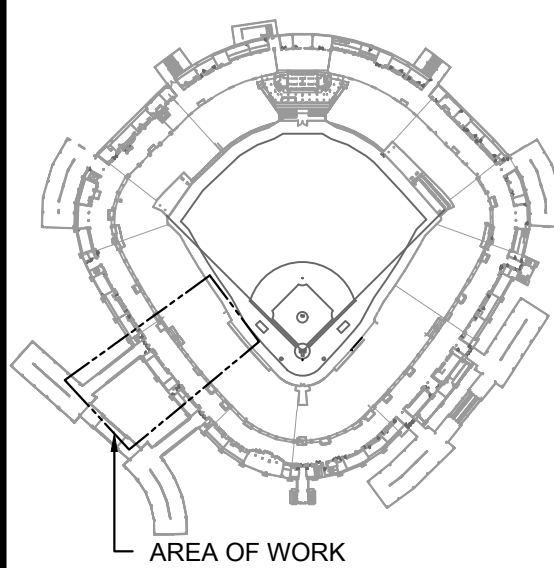
DESIGNED BY: BT
CHECKED BY: BT
PROJECT NO: 23504
SCALE: 1/8" = 1'-0"

SHEET NO.

E1.306



KEY PLAN:



ISSUE/REVISION:

REV.	DATE	DESCRIPTION
01/03/2020		ISSUED FOR BID

PROJECT:
GUARANTEED RATE FIELD -
SOUND ROOM COOLING

333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
ELECTRICAL PLAN - LEVEL 300
- SECTION 8

DESIGNED BY: BT

CHECKED BY: BT

PROJECT NO: 23504

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

SHEET NO.

E1.308

1 ELECTRICAL PLAN - 300 LEVEL - SECTION 8 ENLARGED

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

KEYED ELECTRICAL NEW WORK SHEET NOTES

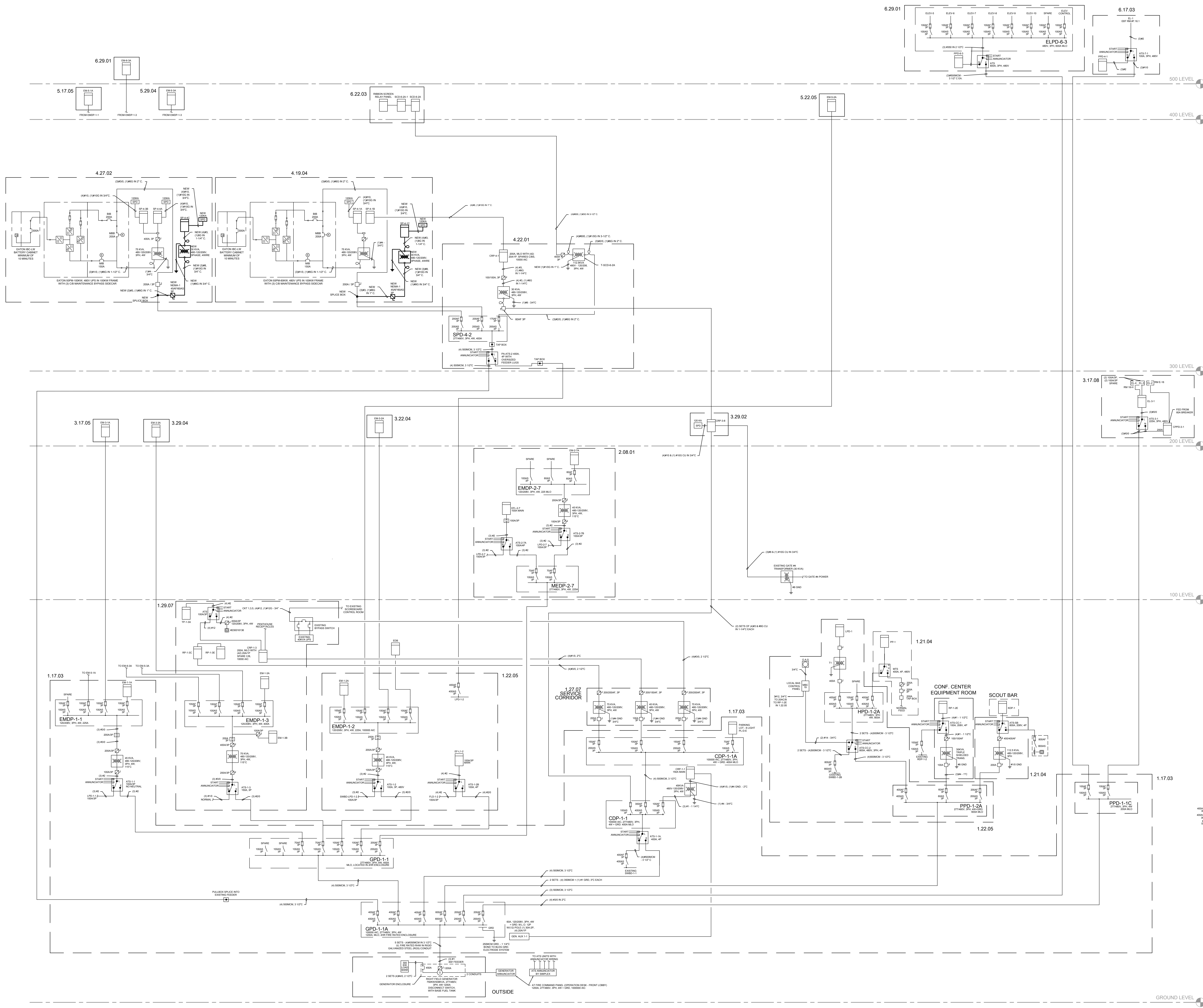
1. EXISTING PANELBOARD SHALL REMAIN. FURNISH AND INSTALL NEW CIRCUIT BREAKERS AS SHOWN IN THE PANEL SCHEDULE.

PANELBOARD: CRP-4-3 (EXISTING)

VOLTAGE: 208Y/120-3PHASE-4W										C/B TYPE				BOLT-ON			
MAIN TYPE: MAIN LUGS										ENCLOSURE:				NEMA 1			
BUS TYPE: TIN PLATED CU										MAX. CKT. POLES:				42			
BUS AMPS.: 225 AMPS.										MOUNTING:				SURFACE			
OCPD AMPS: - AMPS.										CU NEUTRAL BUS RATING:				100%			
OCPD OPT.: -										NEUTRAL BONDING				-			
INT. RATING: 22 KA										CU EQ. GND. BUS:				YES			
BUS OPT: -										INTEGRAL TVSS				-			
SERVES										A		B		C		SERVES	
CU-F1 (")										3744				3744			
										45		1 A		2			
										3		B		4		30	
CU-F2 (")										3744		45		5 A		C 6	
												7		A		8 20	
SPARE												20		9		B 10 20	
SPARE												20		11		C 12 20	
SPARE												20		13		A 14 20	
SPARE												20		15		B 16 20	
SPARE												20		17		C 18 20	
SPARE												20		19		A 20 20	
SPARE												20		21		B 22 20	
SPARE												20		23		C 24 20	
SPARE												20		25		A 26 20	
SPARE												20		27		B 28 20	
SPARE												20		29		C 30 20	
SPARE												20		31		A 32 20	
SPARE												20		33		B 34 20	
SPARE												20		35		C 36 20	
SPARE												20		37		A 38 20	
SPARE												20		39		B 40 20	
SPARE												20		41		C 42 20	
										7488		3744		3744			
										0		0		0			

(**) REPLACE THE EXISTING CIRCUIT NEW CIRCUIT AS NOTED. THE NEW CIRCUIT BREAKER MAKE, MODEL, AND AIC RATING SHALL MATCH THE EXISTING.

A	7488
B	3744
C	3744
TOTAL(VA)	14976
CONNEC. AMPS	41.6



ISSUE/REVISION:		
REV.	DATE	DESCRIPTION
01/23/2020		ISSUED FOR BID

PROJECT:
GUARANTEED RATE FIELD -
SOUND ROOM COOLING

333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
ELECTRICAL SINGLE LINES

DESIGNED BY: BT

CHECKED BY: BT

PROJECT NO: 23504

SCALE: NO SCALE

SHEET NO.



