ADDENDUM 02

Issue Date: November 22, 2024

Project Information

Client: Abla Griffin Partnership
Project Name: MPS Daycare
Project Location: Moore, OK
Owner: Moore Public Schools
Engineer: Salas O'Brien, LLC

Project No. 2450-70304-00

To Prospective Bidders

This Addendum forms a part of the Contract Documents and modifies the Bidding Documents dated November 12, 2024, (and previous addenda), with amendments and additions noted below.

This Addendum consists of (3) pages and (26) attachments.

- Index of Attachments
  - M000 P001 E101 T101
  - M101 P101 E201 T201
  - M201 P110 E202
  - M601 P201 E203
  - M602 P301 E401
  - M603 P302 E601
  - M604 P601 E602
  - M605 E000 T000

Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may disqualify Bidder.

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CHANGES TO THE DRAWINGS

Revisions have been made to the following drawings and are issued in the form of full-size plans. Edits are indicated by a revision delta and a cloud surrounding the affected portion of the drawing.

M000 – MECHANICAL LEGEND AND NOTES

- Refer to clouds and deltas on plan.

M101 – MECHANICAL FLOOR PLAN

- Refer to clouds and deltas on plan.

M201 – MECHANICAL ROOF PLAN

- Refer to clouds and deltas on plan.

M601 – MECHANICAL SCHEDULES

- Refer to clouds and deltas on plan.

M602 – MECHANICAL SCHEDULES

- Entire sheet.

M603 – MECHANICAL SCHEDULES

- Entire sheet.

M604 – MECHANICAL SCHEDULES

- Entire sheet.

M605 – MECHANICAL SCHEDULES

- Entire sheet.

P001 – PLUMBING SITE PLAN

- Refer to clouds and deltas on plan.

P101 - PLUMBING PLAN BELOW GRADE

- Refer to clouds and deltas on plan.

P110 - PLUMBING PLAN ABOVE GRADE

- Refer to clouds and deltas on plan.

P201 – PLUMBING ROOF PLAN

- Refer to clouds and deltas on plan.

P301 – PLUMBING ISOMETRIC – WASTE & VENT

- Refer to clouds and deltas on plan.

P302 – PLUMBING ISOMETRIC – WATER SUPPLY

- Refer to clouds and deltas on plan.

P601 – PLUMBING SCHEDULES

- Refer to clouds and deltas on plan.

E000 – ELECTRICAL TITLE SHEET

- Refer to clouds and deltas on plan.

E101 – ELECTRICAL LIGHTING PLAN

- Refer to clouds and deltas on plan.

E201 – ELECTRICAL POWER PLAN

- Refer to clouds and deltas on plan.

E202 – ELECTRICAL ROOF PLAN

- Refer to clouds and deltas on plan.

E203 – ELECTRICAL KITCHEN PLAN

- Refer to clouds and deltas on plan.

E401 – ELECTRICAL ONE-LINE DIAGRAM

- Refer to clouds and deltas on plan.

E601 – ELECTRICAL SCHEDULES

- Refer to clouds and deltas on plan.

E602 – ELECTRICAL SCHEDULES

- Refer to clouds and deltas on plan.

T000 – TECHNOLOGY NOTES AND LEGENDS

- Refer to clouds and deltas on plan.

T101 – TECHNOLOGY SITE PLAN

- Refer to clouds and deltas on plan.

T201 – TECHNOLOGY FLOOR PLAN

- Refer to clouds and deltas on plan.

END OF ADDENDUM [02]

GENERAL MECHANICAL NOTES

1. ALL WORK SHALL BE IN COMPLIANCE WITH STATE AND LOCAL CODES.
2. THE CONTRACTOR SHALL PAY FOR ALL FEES, PERMITS, LICENSES, ETC., NECESSARY FOR PROPER COMPLETION OF THE WORK.
3. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
4. VERIFY ALL EXISTING CONDITIONS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN CONTRACT DRAWINGS AND ACTUAL CONDITIONS.
5. EXISTING UTILITIES TO BE ABANDONED SHALL BE PROPERLY DISCONNECTED AND CAPPED AS REQUIRED BY CODE OR LOCAL ORDINANCE.
6. THESE DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. ADDITIONAL DATA SHALL BE FROM THE ENGINEER THROUGH WRITTEN CLARIFICATION ONLY. VERIFY ALL EXISTING CONDITIONS, ELEVATIONS, AND DIMENSIONS BEFORE PROCEEDING WITH ANY PORTION OF ANY WORK. THE CONTRACTOR SHALL PROVIDE ALL OFFSETS AND TRANSITIONS REQUIRED TO MEET EXISTING CONDITIONS.
7. THE CONTRACTOR SHALL PERFORM WORK IN A SKILLED AND PROFESSIONAL MANNER.
8. ALL CONTRACTORS ARE RESPONSIBLE TO FIELD COORDINATE WORK SCHEDULE WITH OWNER REPRESENTATIVE.
9. THE CONTRACTOR SHALL WORK AND COORDINATE WITH THE OTHER TRADES.
10. ALL EQUIPMENT SHALL BE NEW AND IN UNDAMAGED CONDITION. ANY EQUIPMENT FOUND DEFECTIVE SHALL BE IMMEDIATELY REMOVED FROM THE PROJECT.
11. PROVIDE 3 COPIES OF AN OPERATION AND MAINTENANCE MANUAL FOR ALL MAJOR EQUIPMENT REQUIRING SERVICE. MAJOR EQUIPMENT INCLUDES BUT IS NOT LIMITED TO COILS, FANS, AND CONTROL WIRING DIAGRAMS. EACH PIECE OF EQUIPMENT SHALL STATE THE CONTRACT DATE AND THE NAME, ADDRESS AND PHONE NUMBER FOR THE PRIME CONTRACTOR, SUBCONTRACTOR PERFORMING THE INSTALLATION, AND THE LOCAL VENDOR FOR SPARE PARTS. THE MANUALS SHALL CONTAIN MAINTENANCE INSTRUCTIONS REQUIRED FOR THE INSTALLED EQUIPMENT. MANUALS SHALL BE BOUND IN A THREE RING HARD COVER BINDER. O & M MANUALS SHALL BE SUBMITTED TO THE OWNER PRIOR TO FINAL WALK THROUGH OF THE PROJECT.
12. PROVIDE 8 HOURS OF OWNER TRAINING FOR THE INSTALLED EQUIPMENT. TRAINING SHALL BE HELD ONLY AFTER ALL OF THE EQUIPMENT IS INSTALLED AND PROPER OPERATION IS VERIFIED.
13. CONTRACTOR SHALL SUBMIT A CERTIFIED REPORT INDICATING SYSTEM PERFORMANCE INCLUDING, BUT NOT LIMITED TO, VOLTAGE AND AMPERAGE MEASUREMENTS OF ALL EQUIPMENT GREATER THAN 1/3 H.P. AIR BALANCE MEASUREMENTS OF OUTSIDE AIR DELIVERY, AIR HANDLING UNIT SUPPLY, SUPPLY DIFFUSERS, EXHAUST AND RETURN GRILLES. AIR BALANCE SHALL BE WITHIN 10% OF DESIGN CONDITIONS. THE REPORT CERTIFICATION SHALL BE AS FOLLOWS:

    I (name) of (company) CERTIFY THAT ALL MEASUREMENTS, FIGURES AND STATEMENTS INDICATED IN THIS REPORT WERE TAKEN BY ME OR UNDER MY SUPERVISION AND ARE ACCURATE AS OF (date). DESIGN FLOWS WERE BASED UPON PLANS DATED (xx/xx/xx).

14. DUCT MATERIAL SHALL BE GALVANIZED OR ALUMINUM CONSTRUCTION IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARD 2005 FOR THE PRESSURE AND SEAL CLASS LISTED IN DUCTWORK/INSULATION SCHEDULE.
15. DUCT SIZES LISTED ON PLANS ARE THE REQUIRED CLEAR INTERIOR DIMENSIONS.
16. SUPPLY AND RETURN BRANCH DUCTS MAY BE INSULATED FLEX DUCT IF THE RUN IS LESS THAN 5 FEET IN LENGTH. ANY LENGTHS OVER 5 FEET SHALL BE RIGID DUCTWORK, DUCT SHALL BE THE SAME SIZE AS THE LISTED DIFFUSER THROAT UNLESS NOTED OTHERWISE.
17. PROVIDE VOLUME CONTROL DAMPERS WHERE INDICATED AND AT ALL TAKEOFFS, BOTH SUPPLY AND RETURN SYSTEMS, AND MAJOR DUCT RUNS. DAMPERS SHALL BE FACTORY-FABRICATED WITH ZINC-PLATED, DIE-CAST CONTROL HARDWARE. CONTROL HARDWARE SHALL INCLUDE HEAVY GAUGE DIAL AND HANDLE WITH ELEVATED PLATFORM FOR INSULATED DUCT MOUNTING.
18. PROVIDE TURNING VANES IN ALL RECTANGULAR ELBOWS CONFORMING TO SMACNA DUCT CONSTRUCTION STANDARD 2005 FIG. 4-2 TYPE RE-3 WITH STANDARD RADIUS. WHERE SPACE PERMITS, PROVIDE RADIUSED ELBOWS IN ACCORDANCE WITH FIGURES 4-2, TYPE RE-1.
19. ALL RECTANGULAR MAIN TO RECTANGULAR BRANCH CONNECTIONS, BOTH CONVERGING AND DIVERGING CONFIGURATIONS, SHALL HAVE A 45 DEG. ENTRY TAP CONSTRUCTED IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARD 2005 FIG. 4-6.
20. DIFFUSER PATTERN 4-WAY UNLESS OTHERWISE INDICATED. PROVIDE FIBERGLASS DUCT INSULATION WITH VAPOR BARRIER AS SCHEDULED UNLESS NOTED OTHERWISE.
21. MECHANICAL CONTRACTOR TO REPAIR ANY DAMAGE DONE TO THE FIRE PROOFING WHILE INSTALLING THE MECHANICAL TRADES. SEAL ALL PENETRATIONS THROUGH RATED STRUCTURES WITH UL LISTED FIRE SEAL DESIGNED FOR THE SPECIFIED APPLICATION.
22. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES TO PROTECT THE PUBLIC AND ADJACENT PROPERTIES FROM DAMAGE THROUGHOUT CONSTRUCTION.
23. THE CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION OR AS OTHERWISE REQUIRED IN THE SPECIFICATIONS.
24. MECHANICAL CONTRACTOR TO INCLUDE THE TEST AND BALANCE, AND ANY PERMIT FEES IN THEIR BID.
25. MECHANICAL CONTRACTOR SHALL VERIFY ALL ROOFTOP EQUIPMENT WEIGHTS, SIZES, LOCATIONS AND OPENINGS REQUIRED AND SHALL COORDINATE ANY CHANGES WITH THE ARCHITECT.
26. UPON PROJECT COMPLETION, RECORD (AS-BUILT) DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR TO THE BUILDING OWNER. ALL CHANGES MADE TO EQUIPMENT, DUCTWORK, AND GENERAL DESIGN SHALL BE NOTED ON THE DRAWINGS. PROVIDE IN PDF FORMAT OR PRINTED SET AT THE OWNER'S REQUEST.

ABBREVIATIONS

A	AMP
ADD	ADDENDUM
ADJ	ADJUSTABLE
AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLER UNIT
AI	ANALOG INPUT
ALT	ALTERNATE
AO	ANALOG OUTPUT
APPRX	APPROXIMATE
ARCH	ARCHITECT, ARCHITECTURAL
BDD	BACK DRAFT DAMPER
BLDG	BUILDING
BTUH	BRITISH THERMAL UNIT PER HOUR
C	CENTER
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CO	CLEAN OUT
COND	CONDENSATE
CONT	CONTINUOUS
COP	COEFFICIENT OF PERFORMANCE
DB	DRY BULB
DET	DETAIL
DG	DOOR GRILLE
DI	DIGITAL INPUT
DIA OR ø	DIAMETER
DIM	DIMENSION
DN	DOWN
DO	DIGITAL OUTPUT
DWG	DRAWING
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EG	EXHAUST GRILLE
ELEC	ELECTRICAL
ERV	ENERGY RECOVERY VENTILATOR
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
EXIST	EXISTING
FA	FRESH AIR
FPM	FEET PER MINUTE
FT	FOOT (FEET)
GA	GAUGE/GAGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
GYP	GYPSUM
HORIZ	HORIZONTAL
HP	HORSEPOWER
HT	HEIGHT
I/O	INPUT/OUTPUT
IN	INCH
LAT	LEAVING AIR TEMPERATURE
LB	POUND
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	1000 BTU PER HOUR
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPS
MECH	MECHANICAL
MIN	MINIMUM
MFR	MANUFACTURER
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OC	ON CENTER
P	PUMP
PC	PLUMBING CONTRACTOR
PLBG	PLUMBING
PSI	POUNDS PER SQUARE INCH
QTY	QUANTITY
RA	RETURN AIR
REQD	REQUIRED
REV	REVERSE OR REVISION
RG	RETURN AIR GRILLE
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
SA	SUPPLY AIR
SQFT	SQUARE FEET
SG	SUPPLY GRILLE
SP	STATIC PRESSURE
SPEC	SPECIFICATIONS
SS	STAINLESS STEEL
T&B	TEST AND BALANCE
TEMP	TEMPERATURE OR TEMPORARY
TG	TRANSFER GRILLE
TYP	TYPICAL
V	VOLT
VAR	VARIABLE OR VARIES
VEL	VELOCITY
VFD	VARIABLE FREQUENCY DRIVE
VTR	VENT THRU ROOF
W/	WITH
W/IN	WITHIN
W/O	WITH OUT
WB	WET BULB
WC	WATER COLUMN (INCHES OF)
WT	WEIGHT

MECHANICAL HVAC LEGEND

EXHAUST AIR DUCT (DOWN)			EXHAUST AIR DUCT (UP)
RETURN AIR DUCT (DOWN)			RETURN AIR DUCT (UP)
OUTSIDE OR SUPPLY AIR DUCT (DOWN)			OUTSIDE OR SUPPLY AIR DUCT (UP)
DUCT SIZE	24x12		NEW DUCTWORK
FLEX DUCT			EXISTING DUCTWORK
DEMOLITION LINETYPE			SUPPLY AIR CEILING DIFFUSER
RETURN AIR GRILLE			EXHAUST AIR GRILLE
DIFFUSER, GRILLE, AND REGISTER CALL-OUTS	CALL-OUT CFM		SCHEDULED EQUIPMENT TAG
MANUAL BALANCING DAMPER		P	PIPE PENETRATION THROUGH FIRE RATED WALL
FIRE DAMPER	F	S	SMOKE DAMPER
MOTORIZED DAMPER	M	C	FIRE/SMOKE DAMPER
THERMOSTAT	T	H	HUMIDISTAT
REMOTE SENSOR	S	C	CARBON DIOXIDE SENSOR
DUCT SMOKE DETECTOR	S	CO	CARBON MONOXIDE SENSOR

MECHANICAL SHEET INDEX

1

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KFC ENGINEERING
STRUCTURAL

SALAS O'BRIEN
MECHANICAL / ELECTRICAL

11/22/24

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OCTOBER 2024
date

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1 11/22/2024 AD 02

MOORE PUBLIC SCHOOLS

CHILD CARE FACILITY
201 N. EASTERN AVE.

sheet no:

M000

Salas O'Brien
2900 S. Telephone Road, Suite 120
Moore, OK 73160
Salas O'Brien Registration: CA# 7058
Expiration Date : 6/30/2025
Salas O'Brien Project Number: 2450-70304-00

OWNERSHIP USE OF DOCUMENTS:

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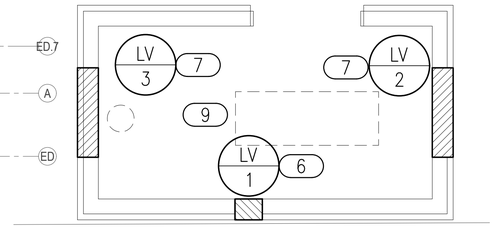
GENERAL NOTES

1. COORDINATE INSTALLATION OF EQUIPMENT AND DUCTWORK WITH ALL TRADES.
2. COORDINATE LOCATION OF THERMOSTATS WITH E.C. ROUGH-IN BY E.C.
3. ALL PENETRATIONS OVER 3 1/2 SQUARE INCHES OR 2 1/16 INCHES IN DIAMETER IN/OUT OF SHELTER REQUIRE SHROUD. REFER TO STRUCTURAL FOR ALL SHROUD DETAILS.
4. MC IS RESPONSIBLE TO ALL STRUCTURAL REQUIRED PENETRATION PROTECTION ITEMS FOR ALL MECHANICAL SYSTEMS PENETRATING THE SHELTER.
5. E.C. TO PROVIDE, LOCATE, AND INSTALL SWITCH FOR EMERGENCY VENTILATION FAN. M.C. SHALL PROVIDE CALL OUT LETTERING "EMERGENCY VENTILATION" ON PLACARD ABOVE SWITCH WITH 3/4" LETTERING FOR INSTALLATION BY GC. COORDINATE WITH GC AND EC.

KEYED NOTES

1. ROOF HOOD IS PART OF EMERGENCY VENTILATION SYSTEM. DUCT UP 16X12 TO TRANSITION INTO ROOF HOOD OPENING 18X16.
2. MOTORIZED DAMPER TO BE 120V CONNECTED TO EMERGENCY POWER. DAMPER SHALL OPEN WHEN SUPPLY FAN TURNS ON.
3. PROVIDE LOCKABLE COVER FOR THERMOSTAT.
4. DUCT 18X20 SUPPLY AND 12X28 RETURN UP TO RTU.
5. ROOF HOOD PART OF THE EMERGENCY VENTILATION SYSTEM TO PROVIDE RELIEF AIR. MOTORIZED DAMPER SHALL OPERATE ON INVERTER. INTERLOCK WITH SF-1. DUCT DOWN TO 16X12.
6. MOUNT BOTTOM OF LOUVER 8'-0" AFF.
7. MOUNT BOTTOM OF LOUVER MINIMUM 18" AFF.
8. CARBON MONOXIDE DETECTOR TO BE INSTALLED ACCORDING TO ALL APPLICABLE CODES. DETECTOR SHALL BE INSTALLED CENTRALLY ON CEILING. ALSO INCLUDE BATTERY BACKUP IN EVENT PRIMARY POWER IS INTERRUPTED. ALARM SIGNAL SHALL BE ROUTED TO ADMINISTRATION OFFICE. COORDINATE WITH E.C. WITH PRIMARY POWER CONNECTION AND SYSTEM CONNECTION.
9. PROVIDE EXHAUST DUCT TO GENERATOR RADIATOR CONNECTION. COORDINATE DUCT SIZE WITH GENERATOR MANUFACTURER DRAWINGS.
10. PROVIDE DRYER VENT EXHAUST HOOD TERMINATION AT EXTERIOR WALL IN ACCORDANCE WITH DRYER MANUFACTURER'S REQUIREMENTS. PROVIDE WALL CAP WITH BIRD FILTER.
11. DUCT 14" DIA. UP TO ROOF EXHAUST FAN OPENING. TRANSITION TO HOOD COLLAR PER KITCHEN SPECIFICATIONS.
12. DOAS UNIT SHALL CYCLE DOWN TO TEMPER KITCHEN WHILE HOODS ARE OFF.



2 MECHANICAL GENERATOR PLAN

SCALE: 1/4" = 1'-0"

NORTH

1 MECHANICAL FLOOR PLAN

SCALE: 3/32" = 1'-0"

NORTH

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Salas O'Brien Project Number: 2450-70304-00

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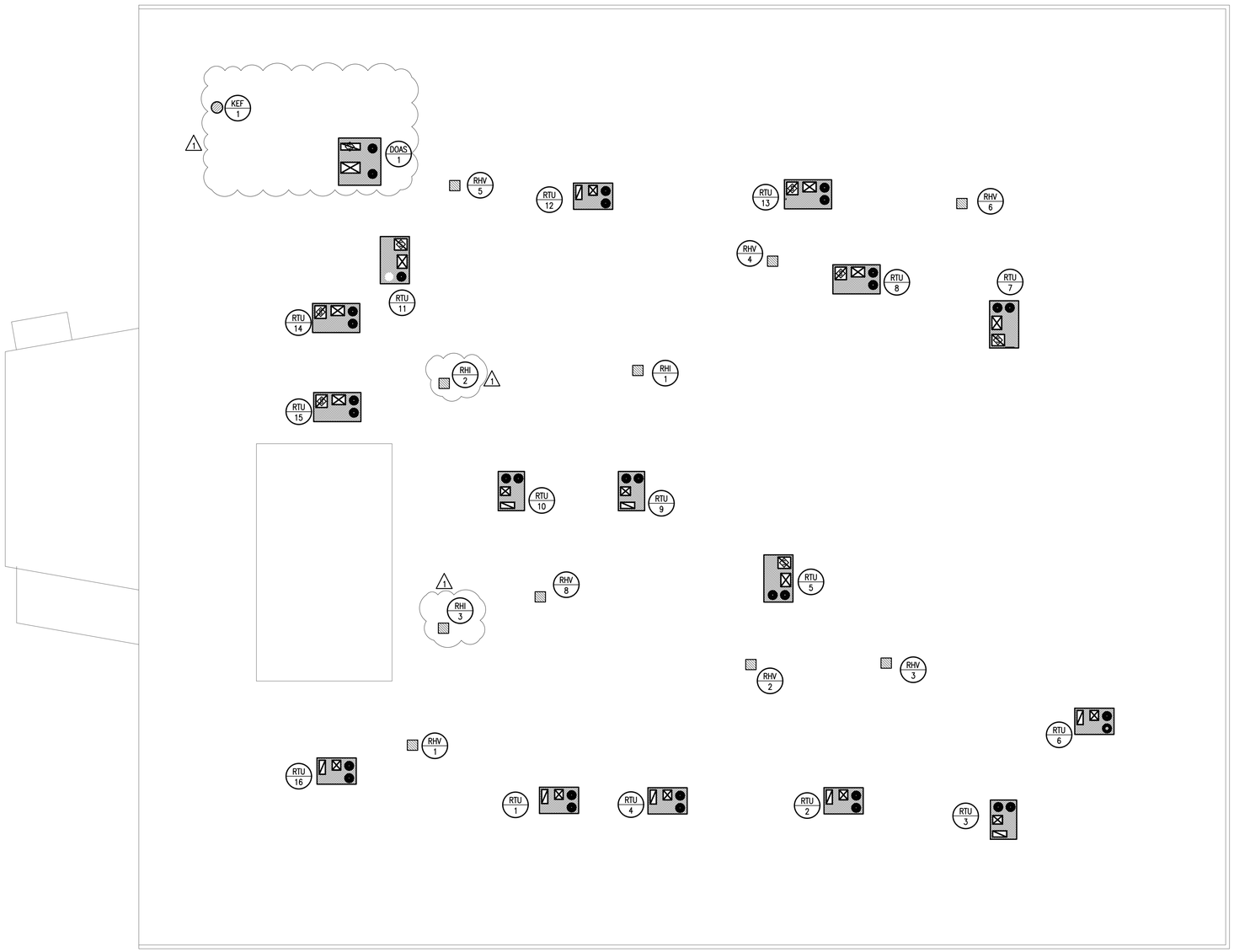

GENERAL NOTES

1. ALL ROOF TOP EQUIPMENT TO BE LOCATED A MINIMUM OF 10'-0" AWAY FROM ROOF EDGE.
2. MAINTAIN A MINIMUM OF 10'-0" HORIZONTAL CLEARANCE BETWEEN ALL EXHAUST OUTLETS AND ANY FRESH AIR INTAKES.
3. MOUNT ROOF CURBS LEVEL ON PITCHED ROOF.
4. ALL ROOF SUPPORT SYSTEMS ARE TO BE MANUFACTURED FOR THE ROOF MATERIAL/SYSTEM TO BE INSTALLED. REFER TO ARCH PLANS FOR THE ROOF SYSTEM. CURB INSTALLATION TO BE WARRANTIED BY ROOFING CONTRACTOR.
5. ALL PENETRATIONS OVER 3 1/2 SQUARE INCHES OR 2 1/16 INCHES IN DIAMETER IN/OUT OF THE SHELTER REQUIRE SHROUD. REFER TO STRUCTURAL FOR ALL SHROUD DETAILS.
6. MC IS RESPONSIBLE FOR ALL STRUCTURAL REQUIRED PENETRATION PROTECTION ITEMS FOR ALL MECHANICAL SYSTEMS PENETRATING THE SHELTER.
7. ROUTE ALL CONDENSATE TO NEAREST OPEN SITE DRAIN. 1

1 MECHANICAL ROOF PLAN

SCALE: 3/32" = 1'-0"

NORTH

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ROOF HOOD SCHEDULE

RH	THROAT SIZE DIMENSION (IN)	THROAT AREA (FT²)	DAMPER BDD OR MOD	CONSTRUCTION	MANUFACTURER & MODEL NO.	COMMENTS	NOTES
RHI-1	14X14	1.36	MOD	ALUMINUM	GREENHECK FGI	COLOR BY ARCHITECT	1-3
RHI-2	10X10	0.69	MOD	ALUMINUM	GREENHECK FGI	COLOR BY ARCHITECT	1-3
RHI-3	10X10	0.69	MOD	ALUMINUM	GREENHECK FGI	COLOR BY ARCHITECT	1-3
RHV-1	10X10	0.69	MOD	ALUMINUM	GREENHECK FGI	COLOR BY ARCHITECT	1-3
RHV-2	10X10	0.69	MOD	ALUMINUM	GREENHECK FGI	COLOR BY ARCHITECT	1-3
RHV-3	10X10	0.69	MOD	ALUMINUM	GREENHECK FGI	COLOR BY ARCHITECT	1-3
RHV-4	10X10	0.69	MOD	ALUMINUM	GREENHECK FGI	COLOR BY ARCHITECT	1-3
RHV-5	10X10	0.69	MOD	ALUMINUM	GREENHECK FGI	COLOR BY ARCHITECT	1-3
RHV-6	10X10	0.69	MOD	ALUMINUM	GREENHECK FGI	COLOR BY ARCHITECT	1-3
RHV-7	14X14	1.36	MOD	ALUMINUM	GREENHECK FGI	COLOR BY ARCHITECT	1-3

NOTES: M.C. IS RESPONSIBLE FOR PROVIDING ANY AND ALL NECESSARY DIMENSIONAL, ELECTRICAL, MECHANICAL, AND STRUCTURAL ALTERATIONS NECESSITATED BY PROVIDING ALTERNATE EQUIPMENT.
1. M.C. TO PROVIDE ROOF HOOD WITH ALUMINUM BIRDSCREEN.
2. M.C. SHALL PROVIDE ROOF CURB, CURB INSTALLATION BY G.C.
3. M.C. SHALL PROVIDE LOW VOLTAGE MOTORIZED DAMPER.

LOUVER SCHEDULE

L	CONNECTED TO	SIZE (IN)	MINIMUM FREE AREA (FT²)	FLANGE	CONSTRUCTION	INCLUDE MOD	MANUFACTURER AND MODEL NUMBER	COMMENTS	NOTES
1	GEN ENCLOSURE	18X18	0.71	YES	ALUMINUM	–	GREENEHCK AFL-501	5" FEMA RATED LOUVER- PROVIDE ADDITIONAL DRAINABLE LOUVER (GREENEHCK ESD-403)	1-2
2	GEN ENCLOSURE	60X72	14.98	YES	ALUMINUM	–	GREENEHCK AFL-501	5" FEMA RATED LOUVER- PROVIDE ADDITIONAL DRAINABLE LOUVER (GREENEHCK ESD-403)	1-2
3	GEN ENCLOSURE	60X72	14.98	YES	ALUMINUM	–	GREENEHCK AFL-501	5" FEMA RATED LOUVER- PROVIDE ADDITIONAL DRAINABLE LOUVER (GREENEHCK ESD-403)	1-2

NOTES: M.C. IS RESPONSIBLE FOR PROVIDING ANY AND ALL NECESSARY DIMENSION, ELECTRICAL, MECHANICAL, AND STRUCTURAL ALTERATIONS NECESSITATED BY PROVIDING ALTERNATE EQUIPMENT.
1. PROVIDE PAINTED KYNAR FINISH COLOR BY ARCHITECT.
2. PROVIDE BIRD SCREEN.

AIR BALANCE SCHEDULE

EXHAUST		OUTDOOR AIR	
SOURCE	CFM	SOURCE	CFM
KEF-1	2500	DOAS-1	2400
EF-1	225	RTU-1	350
EF-2	300	RTU-2	520
EF-3	375	RTU-3	280
EF-4	450	RTU-4	535
EF-5	300	RTU-5	645
EF-6	175	RTU-6	205
EF-7	300	RTU-7	700
EF-8	100	RTU-8	900
–	–	RTU-9	450
–	–	RTU-10	535
–	–	RTU-11	625
–	–	RTU-12	400
–	–	RTU-13	710
–	–	RTU-14	205
–	–	RTU-15	205
–	–	RTU-16	205
TOTAL:	4725		9870

PACKAGED ROOFTOP GAS/ELECTRIC UNIT SCHEDULE

RTU	LOCATION	INPUT MBH	OUTPUT MBH	COOLING NOMINAL TONS	MIN EER	CAPACITY STAGES	TOTAL CFM	MIN F.A. CFM	ELEC CHAR	MCA	MOCP	ESP (IN)	WEIGHT	MANUFACTURER & MODEL NUMBER	NOTES
1	ROOF-SEE PLANS	65	52	3	14.3	2(H)/1(C)	1100	350	208 / 3	19	25	1.0	900	LENNOX LGM036U5E	1,2,4-12
2	ROOF-SEE PLANS	108	87	5	12.5	2(H)/1(C)	1680	520	208 / 3	26	40	1.0	905	LENNOX LGM060U5E	1,2,4-12
3	ROOF-SEE PLANS	65	52	3	14.3	2(H)/1(C)	1100	280	208 / 3	19	25	1.0	900	LENNOX LGM036U5E	1,2,4-12
4	ROOF-SEE PLANS	108	87	5	12.5	2(H)/1(C)	1700	535	208 / 3	26	40	1.0	905	LENNOX LGM060U5E	1,2,4-12
5	ROOF-SEE PLANS	180	144	7.5	12.5	2(H)/1(C)	2100	645	208 / 3	46	50	1.0	1500	LENNOX LGM092U5E	1-12
6	ROOF-SEE PLANS	65	52	3	14.3	2(H)/1(C)	1100	205	208 / 3	19	25	1.0	900	LENNOX LGM036U5E	1,2,4-12
7	ROOF-SEE PLANS	180	144	7.5	12.5	2(H)/1(C)	2200	700	208 / 3	46	50	1.0	1500	LENNOX LGM092U5E	1-12
8	ROOF-SEE PLANS	180	144	8.5	12.5	2(H)/1(C)	3000	900	208 / 3	48	50	1.0	1500	LENNOX LGM102U5E	1-12
9	ROOF-SEE PLANS	108	87	4	13.2	2(H)/1(C)	1500	450	208 / 3	25	35	1.0	905	LENNOX LGM048U5E	1,2,4-12
10	ROOF-SEE PLANS	108	87	5	12.5	2(H)/1(C)	1700	535	208 / 3	26	40	1.0	905	LENNOX LGM060U5E	1,2,4-12
11	ROOF-SEE PLANS	180	144	7.5	12.5	2(H)/1(C)	2100	625	208 / 3	46	50	1.0	1500	LENNOX LGM092U5E	1-12
12	ROOF-SEE PLANS	108	87	4	13.2	2(H)/1(C)	1400	400	208 / 3	25	35	1.0	905	LENNOX LGM048U5E	1,2,4-12
13	ROOF-SEE PLANS	180	144	7.5	12.5	2(H)/1(C)	2200	710	208 / 3	46	50	1.0	1500	LENNOX LGM092U5E	1-12
14	ROOF-SEE PLANS	65	52	3	14.3	2(H)/1(C)	1100	205	208 / 3	19	25	1.0	900	LENNOX LGM036U5E	1,2,4-12
15	ROOF-SEE PLANS	65	52	3	14.3	2(H)/1(C)	1100	205	208 / 3	19	25	1.0	900	LENNOX LGM036U5E	1,2,4-12
16	ROOF-SEE PLANS	65	52	3	14.3	2(H)/1(C)	1100	205	208 / 3	19	25	1.0	900	LENNOX LGM036U5E	1,2,4-12

NOTES: M.C. IS RESPONSIBLE FOR PROVIDING ANY AND ALL NECESSARY DIMENSIONAL, ELECTRICAL, MECHANICAL, AND STRUCTURAL ALTERATIONS NECESSARY BY PROVIDING ALTERNATE EQUIPMENT.
1. PROVIDE CONDENSER COIL HAIL GUARD.
2. PROVIDE FACTORY-INSTALLED UNIT DISCONNECT SWITCH.
3. PROVIDE FACTORY-INSTALLED RETURN DUCT SMOKE DETECTOR WITH REMOTE TEST STATION TO BE LOCATED IN OCCUPIED SPACE. INSTALLATION OF REMOTE TEST STATION AND CONNECTION TO FIRE ALARM SYSTEM BY E.C.
4. PROVIDE FACTORY-INSTALLED 120V GFCI CONVENIENCE OUTLET. GFCI POWERED FROM UNIT. RECEPTACLE SHALL BE COMPLIANT WITH NEC 210.63.
5. PROVIDE ANTI-SHORT CYCLE TIMER AND LOW AMBIENT CONTROLS.
6. PROVIDE FACTORY ROOF CURB SO THAT THE BOTTOM OF THE ROOFTOP UNIT IS A MINIMUM OF 14" ABOVE FINISHED ROOF. MOUNT LEVEL ON SLOPED ROOF.
7. PROVIDE HINGED AND TOOL-LESS ACCESS DOORS.
8. PROVIDE PHASE MONITOR.
9. PROVIDE FULL ENTHALPY ECONOMIZER WITH POWERED EXHAUST.
10. PROVIDE DIGITAL, WI-FI ACCESSIBLE 7-DAY PROGRAMMABLE THERMOSTAT WITH OCCUPIED/UNOCCUPIED SETTINGS CAPABLE OF CONTROLLING THE H/C STAGES OF SPECIFIED UNIT.
11. PROVIDE UNIT WITH HGRH.
12. MODULATE OUTSIDE AIR BASED ON DEMAND REPORTED BY CO2 CENSOR.

GRILLE, REGISTER, AND DIFFUSER SCHEDULE

PLAN SYMBOL	DESCRIPTION	MANUFACTURER & MODEL NO.	MATERIAL	FINISH	NOISE CRITERIA
CDR-1	SQUARE FACE, ROUND NECK, 4-WAY DEFLECTION CEILING DIFFUSER, SPRING LOCK INNER CORE, FOR LAY-IN CEILING INSTALLATION.	PRICE SCD (4C)	STEEL	WHITE	–
SG-1	DOUBLE DEFLECTION SIDEWALL GRILLE, ADJUSTABLE DEFLECTION BLADES, 3/4" O.C. FLAT FRAME WITH 1 1/4" MARGIN, HORIZONTAL FRONT	PRICE 520	STEEL	COLOR BY ARCHITECT	–
RG-1	SQUARE PATTERN GRILLE, FIXED CORE OF 1/2"X1/2"X1/2" FABRICATED ALUMINUM SQUARES, FLAT FRAME WITH 1 1/4" MARGIN, FOR LAY-IN CEILING INSTALLATION.	PRICE 80	ALUMINUM	WHITE	–
RG-2	SQUARE PATTERN GRILLE, ZERO DEGREE DEFLECTION, FLAT STEEL FRAME WITH 1 1/4" BORDER, FOR SURFACE MOUNT INSTALLATION.	PRICE 80	STEEL	WHITE	–
EG-1	SQUARE PATTERN GRILLE, FIXED CORE OF 1/2"X1/2"X1/2" FABRICATED ALUMINUM SQUARES, FLAT FRAME WITH 1 1/4" MARGIN, FOR LAY-IN CEILING INSTALLATION.	PRICE 80	ALUMINUM	WHITE	–

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

DUCTWORK/INSULATION SCHEDULE

SYSTEM	LOW PRESSURE				MED. PRESS		HIGH PRESS.		INSULATION				NOTES
		SEAL											
	MAX. PRES.	A	B	C	MAX PRES.	SEAL A	MAX PRES.	SEAL A	INTERNAL	THICKNESS	EXTERNAL	THICKNESS	
SUPPLY AIR WITHIN 10' OF UNIT	2"	X	–	–	–	–	–	–	YES	1"	NO	–	–
SUPPLY AIR BEYOND 10' OF UNIT	2"	X	–	–	–	–	–	–	NO	–	YES	2" FSK	–
RETURN AIR WITHIN 10' OF UNIT	2"	–	X	–	–	–	–	–	YES	1"	NO	–	–
RETURN AIR BEYOND 10' OF UNIT	2"	–	X	–	–	–	–	–	NO	–	YES	2" FSK	–
OUTSIDE AIR/MIXED AIR	2"	–	X	–	–	–	–	–	NO	–	YES	3" FSK	–
EXHAUST AIR	2"	–	X	–	–	–	–	–	NO	–	YES	2" FSK	–
GREASE AIR	2"	X	–	–	–	–	–	–	NO	–	YES	SEE NOTE	1

NOTES:
1. PROVIDE CODE-COMPLIANT FIRE WRAP.

FAN SCHEDULE

	CFM	SP	FAN RPM	ELECTRICAL					DAMPER BDD OR MOD	DRIVE	FAN TYPE	INTERLOCK/ CONTROL	WEIGHT	MANUFACTURER & MODEL NUMBER	NOTES
				VOLTAGE & PHASE	H.P.	FLA/AMPS	MCA	MOCP							
EF-1	225	0.5	1253	115/1	0.25	3.5	4	15	BOD	DIRECT	INLINE	SWITCH	50	GREENHECK SQ-98-VG	1,2,3
EF-2	300	0.5	1321	115/1	0.25	3.5	4	15	BOD	DIRECT	INLINE	SWITCH	50	GREENHECK SQ-98-VG	1,2,3
EF-3	375	0.5	1435	115/1	0.25	3.5	4	15	BOD	DIRECT	INLINE	SWITCH	50	GREENHECK SQ-98-VG	1,2,3
EF-4	450	0.5	1332	115/1	0.25	3.5	4	15	BOD	DIRECT	INLINE	SWITCH	50	GREENHECK SQ-99-VG	1,2,3
EF-5	300	0.5	1321	115/1	0.25	3.5	4	15	BOD	DIRECT	INLINE	SWITCH	50	GREENHECK SQ-98-VG	1,2,3
EF-6	175	0.5	1489	115/1	0.25	3.5	4	15	BOD	DIRECT	INLINE	SWITCH	50	GREENHECK SQ-97-VG	1,2,3
EF-7	300	0.5	1321	115/1	0.25	3.5	4	15	BOD	DIRECT	INLINE	SWITCH	50	GREENHECK SQ-98-VG	1,2,3
EF-8	100	0.3	1670	115/1	0.07	1.3	2	15	BOD	DIRECT	INLINE	SWITCH	30	GREENHECK SQ-60-VG	1,2,3
SF-1	750	0.5	1089	115/1	0.5	6.4	8	15	MOD	DIRECT	INLINE	SWITCH	65	GREENHECK SQ-120-VG	4-7
SF-2	325	0.5	1354	115/1	0.25	3.5	4	15	MOD	DIRECT	INLINE	SWITCH	50	GREENHECK SQ-98-VG	4-7
SF-3	325	0.5	1354	115/1	0.25	3.5	4	15	MOD	DIRECT	INLINE	SWITCH	50	GREENHECK SQ-98-VG	4-7

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1. PROVIDE ELECTRONIC SPEED CONTROL MOUNTED ABOVE ACCESSIBLE CEILING.
2. M.C. SHALL PROVIDE AND INSTALL LOW VOLTAGE MOTORIZED DAMPER.
3. OPERATION OF DEVICE ON OCCUPIED MODE OF RTU OR SWITCH WITH LIGHTS. SEE INTERLOCK/CONTROL COLUMN FOR TYPE.
4. PROVIDE UNIT MOUNTED DISCONNECT.
5. FAN AND MOTORIZED DAMPER ARE PART OF EMERGENCY POWER SYSTEM. COORDINATE ALL CIRCUITS WITH EC.
6. ALL WIRING TO FAN AND DAMPER SHALL BE BY EC.
7. PROVIDE 120 V DAMPER.

ELECTRIC FAN FORCED HEATER SCHEDULE

EFH	ROOM NO.	CFM	WALL OR CEILING	KW	MOUNTING	ELECTRICAL CHAR	AMPS	SPEEDS	CONTROL	RPM	MANUFACTURER & MODEL NUMBER	NOTES
1	VEST	300	CEILING	2	RECESSED	208 / 1	9.6	1	INT STAT	1400	BERKO FTCH-548	1-3
2	VEST	300	CEILING	2	RECESSED	208 / 1	9.6	1	INT STAT	1400	BERKO FTCH-548	1-3
3	VEST	300	CEILING	2	RECESSED	208 / 1	9.6	1	INT STAT	1400	BERKO FTCH-548	1-3
4	VEST	300	CEILING	2	RECESSED	208 / 1	9.6	1	INT STAT	1400	BERKO FTCH-548	1-3

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

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sheet no:
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EXHAUST FAN INFORMATION – JOB#7174241

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	KEF-1	1	DU180HFA	CAPTIVEAIRE	2500	1.700	1307	TEFC,PREMIUM	2.000	1.4750	3	208	7.3	577 FPM	200	18.4

FAN ACCESSORIES

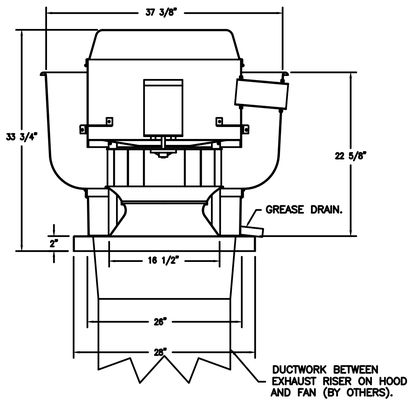
FAN UNIT NO	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	KEF-1	YES						

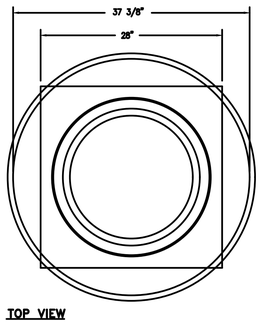
CURB ASSEMBLIES

NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	KEF-1	52 LBS	CURB	26.500"W X 26.500"L X 24.000"H 0.250:12.000 PITCH ALONG LENGTH, RIGHT VENTED HINGED.
2	# 2	DOAS-01	130 LBS	CURB	59.500"W X 91.000"L X 20.000"H 0.250:12.000 PITCH ALONG WIDTH, RIGHT INSULATED.

HMI SCHEDULE				
UNIT NUMBER	HMI #	HMI LOCATION	TEMP AVERAGING	MODBUS ADDRESS
FAN #2	HMI #1 – UNIT	IN UNIT	NOT AVERAGED	55
FAN #2	HMI #2 – SPACE		AVERAGED	56

FAN #1 DU180HFA – EXHAUST FAN (KEF-1)





TOP VIEW

FEATURES:

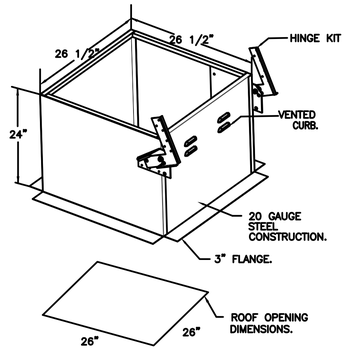
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S845
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300'F (149'C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

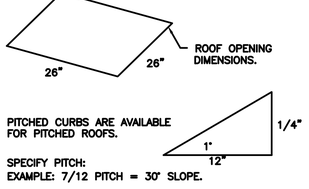
NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300'F (149'C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600'F (316'C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

- GREASE BOX.
- FAN BASE CERAMIC SEAL – DU/DR180HFA – INSTALLED AT PLANT – FOR GREASE DUCTS.
- 2 YEAR PARTS WARRANTY.





PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

SPECIFY PITCH:
EXAMPLE: 7/12 PITCH = 30° SLOPE.

SYSTEM DESIGN VERIFICATION (SDV)

IF ORDERED, CAS SERVICE WILL PERFORM A SYSTEM DESIGN VERIFICATION (SDV) ONCE ALL EQUIPMENT HAS HAD A COMPLETE START UP PER THE OPERATION AND INSTALLATION MANUAL. TYPICALLY, THE SDV WILL BE PERFORMED AFTER ALL INSPECTIONS ARE COMPLETE.

ANY FIELD RELATED DISCREPANCIES THAT ARE DISCOVERED DURING THE SDV WILL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR AND CORRESPONDING TRADES ON SITE. THESE ISSUES WILL BE DOCUMENTED AND FORWARDED TO THE APPROPRIATE SALES OFFICE. IF CAS SERVICE HAS TO RESOLVE A DISCREPANCY THAT IS A FIELD ISSUE, THE GENERAL CONTRACTOR WILL BE NOTIFIED AND BILLED FOR THE WORK. SHOULD A RETURN TRIP BE REQUIRED DUE TO ANY FIELD RELATED DISCREPANCY THAT CANNOT BE RESOLVED DURING THE SDV, THERE WILL BE ADDITIONAL TRIP CHARGES.

DURING THE SDV, CAS SERVICE WILL ADDRESS ANY DISCREPANCY THAT IS THE FAULT OF THE MANUFACTURER. SHOULD A RETURN TRIP BE REQUIRED, THE GENERAL CONTRACTOR AND APPROPRIATE SALES OFFICE WILL BE NOTIFIED. THERE WILL BE NO ADDITIONAL CHARGES FOR MANUFACTURER DISCREPANCIES.

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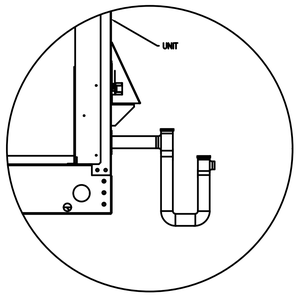
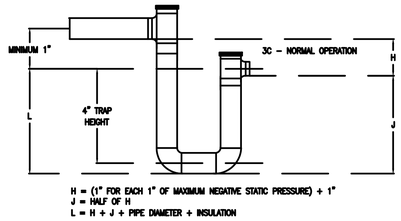
RTU CONDENSATE DRAIN TRAP DETAIL





GREASE DUCT & CHIMNEY SPECIFICATIONS:
PROVIDE GREASE DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW" ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL "DW" IS LISTED TO UL–1978 AND IS INSTALLED USING "V" CLAMP LOCKING CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL "DW" DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER THE MANUFACTURES INSTALLATION GUIDE.
PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER. PER MANUFACTURES LISTING MODEL "DW" HORIZONTAL RUNS LESS THAN 75 FT. CAN BE SLOPED 1/16" PER 12", HORIZONTAL RUNS MORE THAN 75 FT. CAN BE SLOPED 3/16" PER 12".
DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OF GREASE ACCUMULATION IN HORIZONTAL RUNS.

IF THE DUCT OR CHIMNEY IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE UL–2221 OR UL–103 HT LISTED DOUBLE WALL GREASE DUCT OR DOUBLE WALL CHIMNEY EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW– 2R, 2R TYPE HT, 3R, OR 3Z" ROUND 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.

CUSTOMER APPROVAL TO MANUFACTURE:

APPROVED AS NOTED	☐
APPROVED WITH NO EXCEPTION TAKEN	☐
REVISE AND RESUBMIT	☐

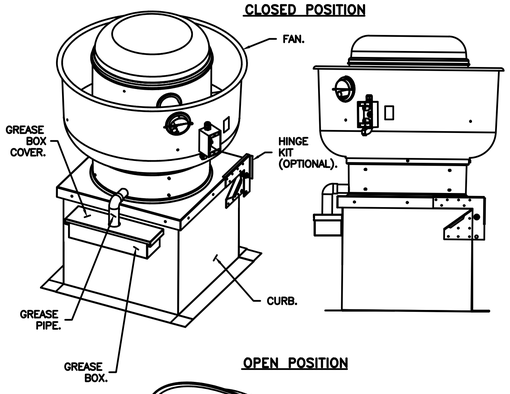
SIGNATURE _____

YOUR TITLE _____ DATE _____

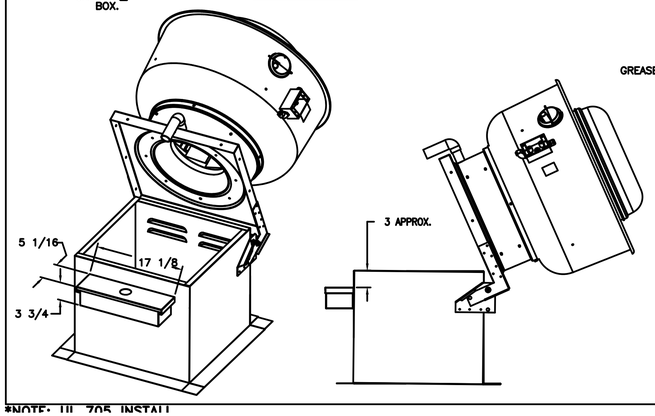
GREASEBOX
REV.#2 08/19/02

GREASE BOX INSTALLATION

CLOSED POSITION



OPEN POSITION



PARTS INCLUDED

GREASE BOX.
GREASE BOX COVER.
GREASE PIPE.

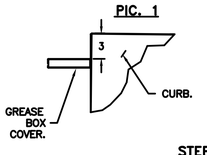
SHEET METAL SCREWS 3 – LONG (3/4" LG.).

GREASE BOX FIELD INSTALLATION

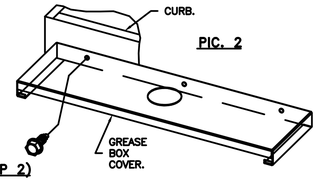
STEP 1)

ATTACH GREASE BOX COVER TO THE CURB, HOLD 3" DIMENSION AS SHOWN ON PIC. 1. SCREW GREASE BOX COVER TO CURB USING (3) LONG (3/4" LG.) SCREWS AS SHOWN ON PIC. 2.

PIC. 1



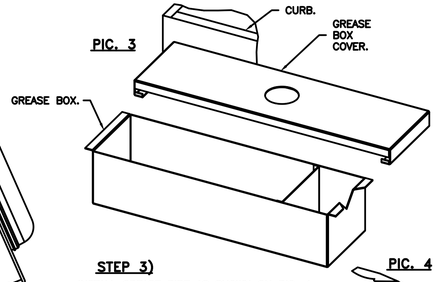
PIC. 2



STEP 2)

ATTACH GREASE BOX TO GREASE BOX COVER, SLIDE AND DROP. AS SHOWN ON PIC. 3.

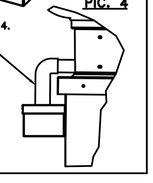
PIC. 3



STEP 3)

INSTALL GREASE PIPE AS SHOWN ON PIC. 4.

PIC. 4



*NOTE: IN 705 INSTALL

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DOAS/RTU FAN SCHEDULE – JOB#7174241

FAN INFORMATION											ELECTRICAL INFORMATION					COOLING INFORMATION												REHEAT INFORMATION					GAS HEAT INFORMATION					A2L MINIMUM ROOM VOLUME			
FAN UNIT NO	TAG	QTY	DOAS/RTU MODEL #	MANUFACTURER	BLOWER	RETURN AIR CFM	MAX OUTSIDE AIR CFM	TOTAL CFM	WEIGHT (LBS)	ESP	HP	PHASE	VOLT	MCA	MOCP	OUTSIDE AIR		MIXED AIR		LEAVING AIR		CAPACITY		IEER	ISMRE	DISCHARGE		CAPACITY		MOISTURE REMOVAL RATE	GAS TYPE	INPUT BTUs	OUTPUT BTUs	TEMP RISE	REQUIRED INPUT GAS PRESSURE	ROOM AREA (FT2)	AIRFLOW (CFM)	HEIGHT (FT)	NOTES
																DB	WB	DB	WB	DB	WB	DP	TOTAL	SENS.			DB	WB	DESIRED	MAX										
2	DOAS-01	1	CAS-HVAC3-L250-15-15T	CAPTIVEAIRE	15P-3	0	2400	2400	2565	0.500	1.50	3	208	57.1A	60A	104.0°F	79.0°F	104.0°F	79.0°F	52.9°F	52.4°F	52.1°F	204.7 MBH	121.3 MBH	18.8	5.7	70.0°F	59.0°F	44.2 MBH	129.6 MBH	75.5 LBS/HR	NATURAL	207407	168000	61°F	7 IN. W.C. – 14 IN. W.C.	602.1	1084	7.2	1–16

NOTES:

1. INVERTER SCROLL COMPRESSOR WITH INTEGRATED OIL SENSOR. DIGITAL OR STAGED SCROLL NOT AN APPROVED EQUAL
2. DIRECT DRIVE PLENUM BLOWER. BELT DRIVEN BLOWERS ARE NOT ACCEPTABLE
3. INTEGRATED MONITORING VIA CELLULAR CONNECTION BY MANUFACTURER
4. REFRIGERATION PRESSURE MONITORING ON HIGH AND LOW PRESSURE SIDE OF SYSTEM INCLUDED THROUGH DIGITAL INTERFACE
5. EC MOTOR CONDENSING FANS
6. ELECTRONIC EXPANSION VALVE. TXV NOT ACCEPTABLE
7. SUCTION LINE ACCUMULATOR
8. FACTORY COMMISSIONING WITH 5 YEAR PARTS WARRANTY, 25 YEAR WARRANTY ON STAINLESS STEEL HEAT EXCHANGER
9. AVERAGING INTAKE, EVAP AND DISCHARGE TEMPERATURE SENSORS (DISCHARGE SENSOR TO BE FACTORY MOUNTED WITHIN UNIT)
10. 2" EXTERIOR DUAL-WALL CONSTRUCTION W/ R-13 INSULATION-MINIMUM 20GA EXTERIOR W/ 14GA BASE
11. 81% EFFICIENT FURNACE, WITH MODULATING INDUCER TO MAINTAIN CONSTANT COMBUSTION EFFICIENCY ACROSS FIRING RANGE. 15:1 TURNDOWN WITH NG AND 12:1 TURNDOWN WITH LP
12. SUPPLY CFM MONITORING INTEGRAL TO UNIT WITH CFM MEASUREMENT INCLUDED THROUGH DIGITAL INTERFACE
13. FULLY MODULATING HOT GAS REHEAT
14. HAIL GUARD FOR CONDENSING COIL
15. DOWN DISCHARGE/DOWN RETURN
16. MINIMUM ROOM AREA ASSUMED 7.2' SUPPLY DIFFUSER HEIGHT AND IS CALCULATED PER UL60335-2-40 4TH ED. VALUES BASED ON FACTORY CHARGE. ACTUAL SITE CHARGE MAY DIFFER.

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	KEF-1	1	GREASE BOX
		1	FAN BASE CERAMIC SEAL – DU/DR180HFA – INSTALLED AT PLANT – FOR GREASE DUCTS
		1	2 YEAR PARTS WARRANTY
2	DOAS-01	1	INLET PRESSURE GAUGE, 0–35"
		1	SHIP LOOSE GAS STRAINER 1"
		1	SINGLE POINT ELECTRICAL CONNECTION FOR RTU. 750VA TRANSFORMER USED. IF A NON-DCV PREWIRE CONTROLS THIS UNIT, THE #28, #47, "MA", OR "E2" PREWIRE OPTION MUST BE SELECTED. DOES NOT PROVIDE SUPPLY STARTER IN PREWIRE
		1	CASLINK BUILDING MONITORING SYSTEM – INTERNET OR CELLULAR CONNECTION REQUIRED
		1	RTU3 DOWN DISCHARGE
		1	2" MERV 13 FILTERS FOR RTU3 (QTY. 4)
		1	2" MERV 8 FILTERS FOR RTU3 (QTY. 4)
		1	OVERHEAT STAT
		1	TOTAL CFM MONITORING
		1	OCCUPIED SCHEDULING
		1	INTAKE FIRESTAT SET TO 135°F
		1	FREEZESTAT
		1	DISCHARGE FIRESTAT SET TO 240°F
		1	RTU3 CURB DUCT HANGER
		1	24VAC FIRE INPUT
		1	RTU RETURN MOUNTED SMOKE DETECTOR AND SAMPLING TUBE – FACTORY INSTALLED
		1	HIGH TURNDOWN OPTION FOR DOAS UNITS
		1	MANIFOLD PRESSURE GAUGE, 0 TO 10" WC, 2 FURNACES
		1	CLOGGED FILTER SWITCH – NOTIFICATION ON HMI
		1	RTU3 CONVENIENCE OUTLET (GFCI), 15 AMP – REQUIRES SEPARATE 120V CONNECTION. INCLUDES RECEPTACLE, COVER AND J-BOX
		1	RTU INTAKE/RETURN DAMPER – MANUAL CONTROL VIA HMI
		1	RTU3 DOWN RETURN
		1	RTU3 HAIL GUARD
		1	R454B – 15 TON MODULATING COOLING OPTION, 208/230V. R454B REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS
		1	R454B LEAK DETECTOR OPTION FOR RTUS
		1	R454B – 15 TON MODULATING REHEAT OPTION – SPACE DEWPOINT CONTROL – R454B
		1	UNIT MOUNTED VFD CONFIGURED FOR DCV
		1	5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS WARRANTY (SEE ADDITIONAL DETAILS)
		1	EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET

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MOORE PUBLIC SCHOOLS

CHILD CARE FACILITY
201 N. EASTERN AVE.

sheet no:
⚠1 M604

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Salas O'Brien Project Number: 2450-70304-00

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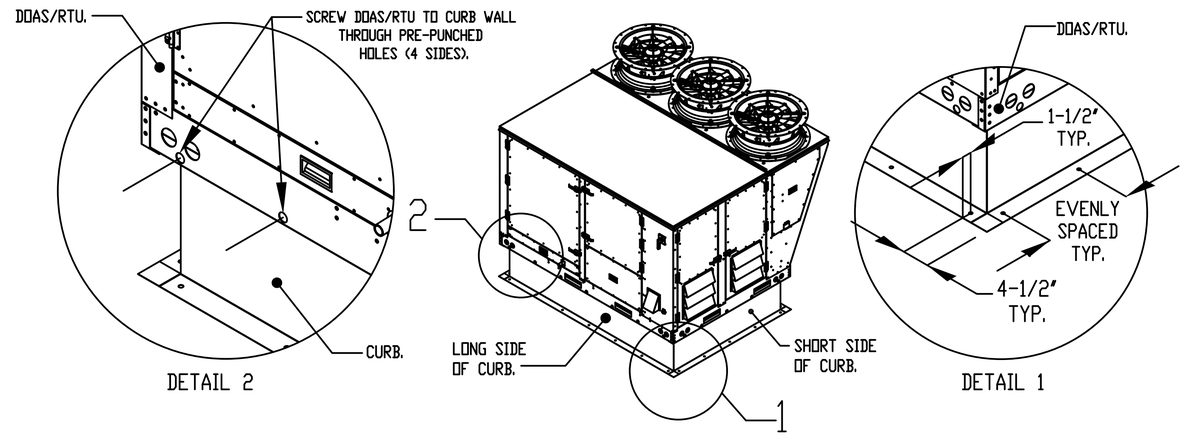
TYPICAL DOAS/RTU ROOF MOUNTING INSTALLATION INSTRUCTIONS

1. SECURE THE CURB TO THE ROOF FRAMING MEMBERS BY DRILLING 1/4" PILOT HOLES IN THE CURB FLANGES AT LOCATIONS SHOWN IN THE DIAGRAM BELOW. USING 3/8" X 2" ZINC PLATED STEEL LAG BOLTS, AND ZINC PLATED WASHERS, SCREW THROUGH THE CURB FLANGES AND INTO THE ROOF FRAMING MEMBERS. A MINIMUM OF (5) LAG BOLTS ON EACH SHORT SIDE, AND (7) LAG BOLTS ON EACH LONG SIDE IS REQUIRED.

2. SECURE THE UNIT BASE TO THE SIDE WALLS OF THE CURB USING (24) 1/4"-14 X 2" SELF-DRILLING, STEEL ZINC PLATED SCREWS. PRE-PUNCHED HOLES HAVE BEEN PROVIDED FOR EACH SCREW LOCATION.



AIR DIFFUSION SUPPLY DUCT SPECIFICATIONS:
PROVIDE AIR DIFFUSION SUPPLY DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL DW-S0(HC), DW-S90(HC), & DW-S180(HC).
THREE DISTINCT HOLE PATTERN OPTIONS TO COVER A VARIETY OF CEILING HEIGHTS.
NO ADDITIONAL DIFFUSERS REQUIRED, AS THE DUCT ITSELF PROVIDES AIR DIFFUSION.
MADE OF HIGH QUALITY STAINLESS STEEL DESIGNED TO LAST 20+ YEARS.
HIGH INDUCTION SUPPLY DUCT IS CONSTRUCTED USING 24 GAUGE, 430 SS – 5" THRU 24".
HIGH INDUCTION SUPPLY DUCT IS CONSTRUCTED USING 20 GAUGE, 430 SS – 26" THRU 36".
QUICK ONSITE ASSEMBLY USING EPDM GASKETS & UNIVERSAL V-BANDS.
DOUBLE WALL SUPPLY DUCT AVAILABLE FOR INTERIOR AND EXTERIOR SPACES, EITHER CONDITIONED OR UNCONDITIONED.
DOUBLE WALL SUPPLY DUCT AVAILABLE IN DW-1S, DW-2S, & DW-3S TO MEET SPECIFIC REGIONAL "R" VALUE REQUIREMENTS.

Insulation R-Value Recommendations		
Supply Duct Type	Minimum R-value	Space Type
Single Wall – S & -HC	N/A	Conditioned Space Only
Double Wall – 1S	R-4	Unconditioned Interior Space Only
Double Wall – 2S	R-8	Unconditioned Space Climate Zones 1-4
Double Wall – 3S	R-12	Unconditioned Space Climate Zones 5-8

DOUBLE WALL SUPPLY DUCT IS INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.
AIR DIFFUSION SUPPLY DUCT COMPLIES WITH SMACNA (SHEET METAL AND AIR CONDITIONING CONTRACTORS) BEST PRACTICES.
POSITIONING OF SPRINKLERS TO AVOID OBSTRUCTION TO DISCHARGE, SEE NFPA 13, TABLE 8.12.5.1.1.

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GENERAL NOTES

1. COORDINATE WORK WITH ALL OTHER TRADES ON SITE.
2. FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
3. PRIOR TO COMMENCING WORK, COORDINATE WITH SITE CONTRACTOR FOR SANITARY SEWER AND WATER INVERT ELEVATIONS.
4. COORDINATE ALL BELOW GRADE NATURAL GAS PIPE ROUTING WITH EXISTING SITE CONDITIONS.

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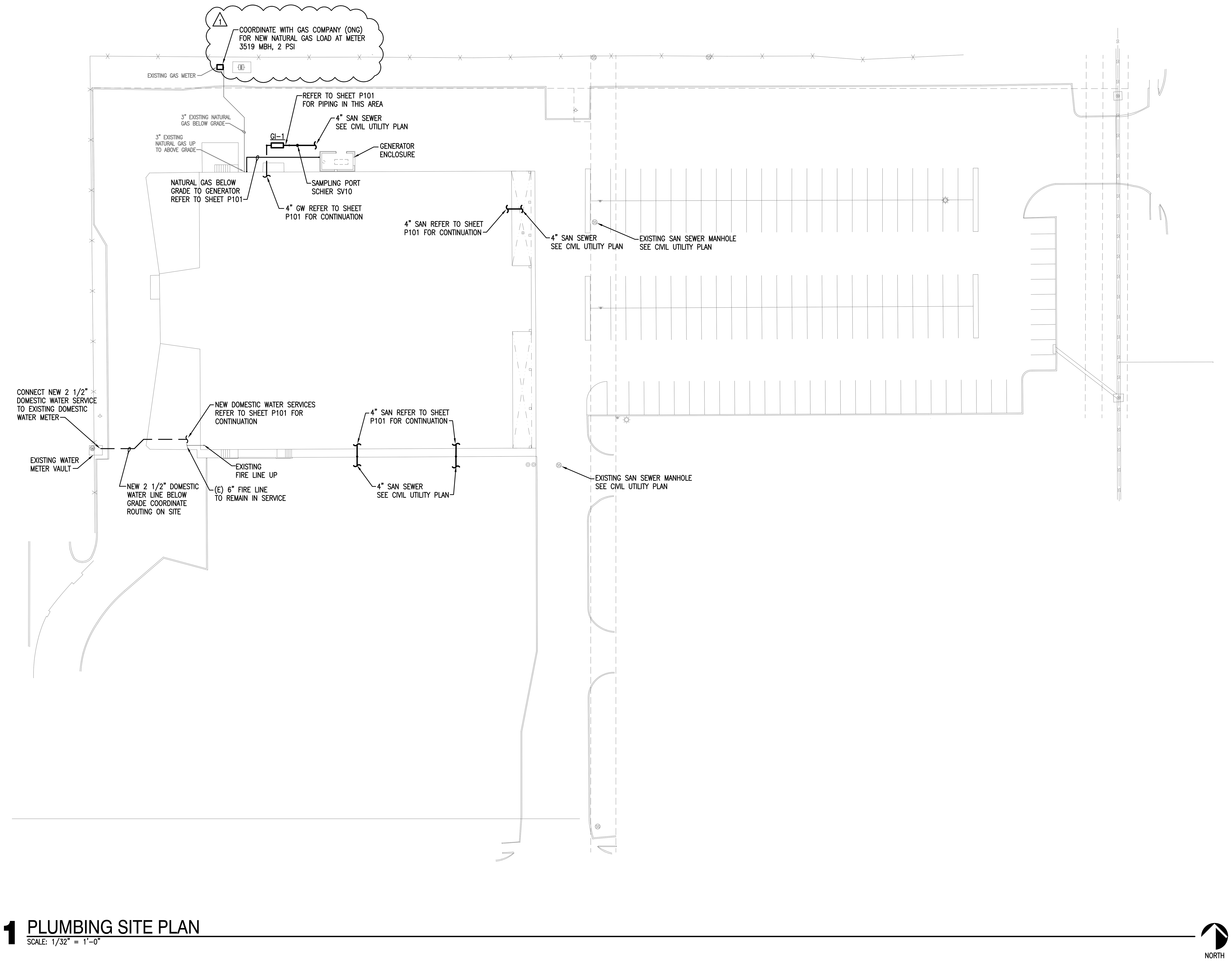

1 PLUMBING SITE PLAN
SCALE: 1/32" = 1'-0"

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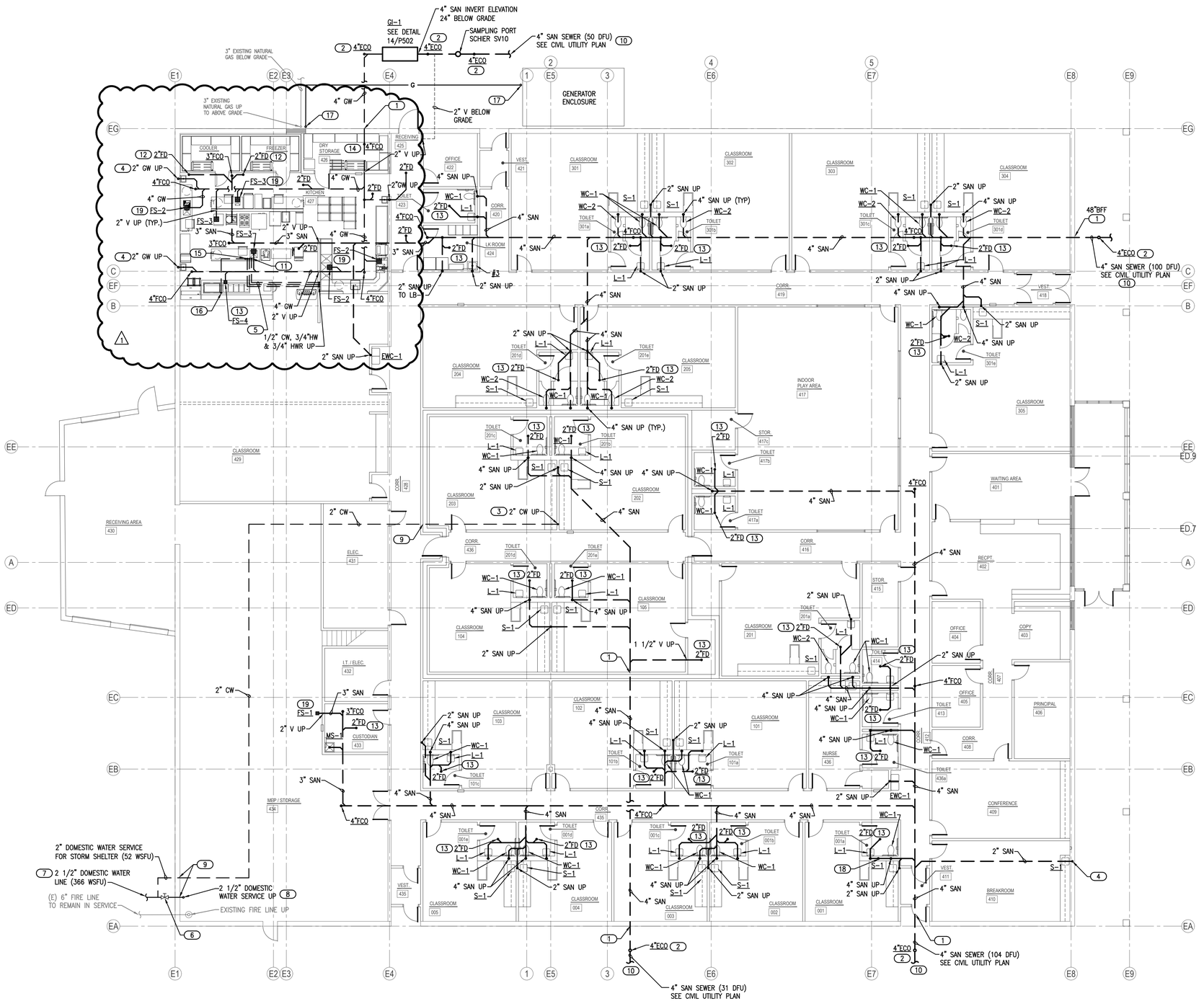

1 PLUMBING PLAN - BELOW GRADE

SCALE: 3/32" = 1'-0"

NORTH

GENERAL NOTES

1. COORDINATE WORK WITH ALL OTHER TRADES ON SITE.
2. COORDINATE ALL BELOW GRADE PIPE ROUTING WITH STRUCTURAL FOUNDATIONS AND REQUIRED PIPE SLEEVES THRU FOUNDATION PENETRATIONS.
3. FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
4. PRIOR TO COMMENCING WORK, COORDINATE WITH SITE CONTRACTOR FOR SANITARY SEWER AND WATER INVERT ELEVATIONS.
5. REFER TO PLUMBING FIXTURE SCHEDULE ON SHEET P601 FOR FIXTURE ROUGH-IN PIPE SIZES. REFER TO ISOMETRIC SHEETS P301 AND P302 FOR ADDITIONAL PIPE SIZES.
6. PIPE TRENCHES SHALL HAVE SAND BEDDING TO A MINIMUM POINT 6" ABOVE THE TOP OF PIPE. REFER TO SPECIFICATIONS.
6. TRAP PRIMER LINES SHALL BE COPPER TYPE "K" OR PEX-a TUBING WITH CONTINUOUS SLOPE TOWARDS DRAIN CONNECTION.
7. COORDINATE WITH GENERAL CONTRACTOR FOR ALL REQUIRED FLOOR CUTTING AND PATCHING TO INSTALL NEW BELOW GRADE/FLOOR PIPING.
8. INSTALL TRAP PRIMER LINES TO ALL FLOOR DRAINS AND FLOOR SINKS. SEE DETAIL 1/P501.

KEYED NOTES

1. PROVIDE CAST IRON PIPE SLEEVE FOR SANITARY OR GREASE WASTE PIPE BELOW OR THRU FOUNDATION WALL OR GRADE BEAM. INSTALL FOAM SPACER BLOCKS TO MAINTAIN PIPE IN CENTER OF SLEEVE. COORDINATE PIPE SLEEVE INSTALLATION WITH STRUCTURAL.
2. INSTALL 4" EXTERIOR CLEANOUT IN CONCRETE PAD AT GRADE. COORDINATE INVERT ELEVATION WITH CIVIL. SEE DETAIL 4/P501.
3. INSTALL PVC PIPE SLEEVE THRU CONCRETE FLOOR AND STUB UP 2" AFF FOR WATER LINE. INSTALL FOAM PIPE INSULATION ON WATER LINE IN SLEEVE. SEAL SLEEVE OPENINGS WATERTIGHT.
4. ROUTE 2" SANITARY OR GREASE WASTE UP INTO FUR OUT OF EXISTING CMU WALL. COORDINATE PIPE ROUTING WITH EXISTING WALL FOOTING.
5. ROUTE 1/2" CW, 3/4" HW AND 3/4" HWR (PEX-a TUBING) BELOW FLOOR TO COOK'S TABLE PREP SINK.
6. INSTALL DOMESTIC WATER CURB STOP IN NEW WATER SERVICE WITH ACCESS COVER AT GRADE.
7. REMOVE EXISTING BELOW GRADE 1 1/2" DOMESTIC WATER SERVICE PIPE FROM BUILDING OUT TO WATER METER CONNECTION. REPLACE WITH 2 1/2" PIPE. COORDINATE WORK WITH SITE CONTRACTOR AND CITY WATER UTILITY DEPARTMENT. SEE SHEET P001 FOR CONTINUATION.
8. REMOVE EXISTING 1 1/2" DOMESTIC WATER SERVICE PIPE AND REPLACE WITH 2 1/2" PIPE. INSTALL PIPE IN PVC PIPE SLEEVE THRU CONCRETE FLOOR. INSULATE PIPE IN SLEEVE WITH CELLULAR FOAM INSULATION.
9. COORDINATE WITH STRUCTURAL FOR ROUTING WATER LINE IN PIPE SLEEVE THRU FOOTING OR FOUNDATION WALL IN THIS AREA.
10. COORDINATE 4" SANITARY SEWER CONNECTION TO EXISTING SEWER MANHOLE WITH SITE CONTRACTOR.
11. ROUTE 1/2" CW, 3/4" HW AND 3/4" HWR (PEX-a TUBING) FROM BELOW FLOOR UP TO SERVE COOK'S TABLE PREP SINK. INSTALL PIPE SLEEVE AT FLOOR PENETRATION FOR WATER LINES. INSULATE WATER LINES WITH FOAM INSULATION IN SLEEVE. SEE SHEET P110 FOR CONTINUATION.
12. INSTALL FUNNEL FASTENED TO STRAINER FOR CONDENSATE DRAIN LINES FROM FREEZER AND COOLER. MINIMUM FUNNEL HEIGHT 3" AND TOP DIAMETER 4". PROVIDE TRAP PRIMER LINE TO FLOOR DRAIN.
13. INSTALL TRAP PRIMER LINE TO FLOOR DRAIN. SEE DETAIL 1/P501.
14. INSTALL 4" FLOOR CLEANOUT AND ROUTE 4" GREASE WASTE DOWN AND THRU EXISTING WALL FOOTING. COORDINATE ROUTING WITH STRUCTURAL.
15. ROUTE 1/2" HW (PEX-a TUBING) FROM BELOW FLOOR UP TO HW LINE SERVING SINK. INSTALL PIPE SLEEVE AT FLOOR PENETRATION FOR WATER LINES. INSULATE WATER LINE WITH FOAM INSULATION IN SLEEVE
16. ROUTE 1/2" HW (PEX-a TUBING) FROM BELOW FLOOR UP SERVING FOOD WELL FAUCET. INSTALL PIPE SLEEVE AT FLOOR PENETRATION FOR WATER LINES. INSULATE WATER LINE WITH FOAM INSULATION IN SLEEVE. SEE SHEET P110 FOR CONTINUATION.
17. INSTALL 1" NATURAL GAS (2 PSI) ANODELESS GAS RISER FOR TRANSITION FROM BELOW GRADE MDPE TUBING TO ABOVE GRADE BLACK IRON PIPE. COORDINATE LOCATION ON SITE.
18. ROUTE 3" SANITARY UP TO OPEN SITE DRAIN IN CHASE FOR CONDENSATE DRAIN LINES.
19. ROUTE TRAP PRIMER LINE ABOVE FLOOR AND OVER FLOOR SINK WITH AIR GAP. SEE DETAIL.

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KEYED NOTES

(36) INSTALL 100 POUND PROPANE TANK WITH SUPPORT STRAP FASTENED TO WALL. INSTALL 2-STAGE PRESSURE REGULATOR WITH VENT PIPED TO ROOF WITH GOOSENECK. ROUTE 1" PROPANE GAS LINE TO GENERATOR. (355 MBH, 10" W.C. PRESSURE). COORDINATE CONNECTION WITH GENERATOR SUPPLIER ON SITE.

(37) DUAL FUEL GENERATOR WITH AUTOMATIC SWITCH OVER TO PROPANE WHEN UNIT SENSES LOSS OF NATURAL GAS PRESSURE IN FUEL INLET 1.

(38) INSTALL 2" OPEN SITE DRAIN IN CHASE FOR CONDENSATE DRAIN LINES FROM RTU'S. CONNECT TO SANITARY SERVING LAVATORY. COORDINATE ROUTING WITH MC. COORDINATE WALL ACCESS PANEL WITH GC.

(39) INSTALL 1 1/2" OPEN SITE DRAIN IN SINK CABINET FOR CONDENSATE DRAIN LINES FROM RTU'S. CONNECT TO SANITARY SERVING SINK. COORDINATE ROUTING WITH MC.

KEYED NOTES

(32) ROUTE 1/2" CW AND 1/2" HW DOWN IN FUR OUT OF EXISTING CMU WALL TO SERVE PREP SINK #24 PROVIDED BY FSC. COORDINATE PIPE ROUTING WITH GC. ROUGH-IN AND PROVIDE FINAL UNIT CONNECTION.

(33) 3/4" CW AND 3/4" HW DROPS IN WALL TO SERVE FAUCET AND HOSE REEL #13 PROVIDED BY FSC. ROUTE DRAIN LINE TO FLOOR SINK WITH AIR GAP. ROUGH-IN AND PROVIDE FINAL UNIT CONNECTION.

(34) CONNECT NEW 1" NATURAL GAS LINE (2 PSI) WITH LOCKABLE SHUT-OFF VALVE TO EXISTING 3" NATURAL GAS RISER AND ROUTE DOWN TO BELOW GRADE TO SERVE GENERATOR.

(35) INSTALL 1" NATURAL GAS (2 PSI) BALL VALVE, DRIP LEG, PRESSURE REGULATOR, UNION AND FINAL 1" CONNECTION (10" W.C. PRESSURE) TO GENERATOR. COORDINATE CONNECTION WITH GENERATOR SUPPLIER ON SITE.

KEYED NOTES

(28) 3/4" CW AND 3/4" HW DROPS IN WALL TO SERVE 2 FAUCETS AT #12 3-COMPARTMENT SINK PROVIDED BY FSC. ROUTE DRAIN LINES TO FLOOR SINK WITH AIR GAP. ROUGH-IN AND PROVIDE FINAL UNIT CONNECTION. SEE DETAIL 15/P502.

(29) ROUTE 3/4" CW AND 3/4" HW DOWN IN WALL TO BELOW COUNTERTOP, STUB OUT, INSTALL BALL VALVES AND CONNECT TO WATER TROUGH MIXING VALVE FURNISHED BY FSC. SEE FSC SHEET FS301.

(30) 1/2" CW AND 1/2" DOWN IN WALL TO SERVE KETTLE #35 FAUCET PROVIDED BY FSC. ROUGH-IN AND PROVIDE FINAL UNIT CONNECTION.

(31) CONNECT 1/2" HW TO FAUCET AT SERVING COUNTER FOOD WELL. ROUTE 1/2" HW LINE DOWN WITH TRANSITION TO PEX TUBING TO BELOW FLOOR. ROUGH-IN AND PROVIDE FINAL UNIT CONNECTIONS.

KEYED NOTES

(24) ROUTE 1/2" CW DOWN TO WATER FILTER AND CONNECT TO ICE MAKER #45. ROUGH-IN AND PROVIDE FINAL UNIT CONNECTION. ICE MAKER PROVIDED BY KEC. ROUTE DRAIN LINE TO FLOOR DRAIN.

(25) INSTALL 3/4" CW DROP IN WALL TO SERVE CONVENTION STEAMER PROVIDED BY KEC. ROUTE DRAIN LINE TO FLOOR SINK WITH AIR GAP. ROUGH-IN AND PROVIDE FINAL UNIT CONNECTION.

(26) ROUTE 1/2" CW, 1/2" HW AND 2" VENT DOWN IN WALL TO SERVE HAND SINK PROVIDED BY KEC. PROVIDE THERMOSTATIC MIXING VALVE TMV-1 AND PIPE WRAP UNDER FIXTURE. ROUGH-IN AND PROVIDE FINAL UNIT CONNECTION.

(27) 1/2" CW AND 3/4" HW DROPS IN WALL TO SERVE DISHWASHER #11 PROVIDED BY KEC. ROUGH-IN AND PROVIDE FINAL UNIT CONNECTION. PROVIDE WATER ARRESTORS, PRV'S AND BALL VALVES ON WATER LINES IN ACCESSIBLE LOCATION. ROUTE DRAIN LINE TO FLOOR SINK.

GENERAL NOTES

1. COORDINATE WORK WITH ALL OTHER TRADES ON SITE.
2. PROVIDE WATER HAMMER ARRESTORS (HA) ON WATER LINES TO FLUSH VALVES, AND QUICK CLOSING VALVES. LOCATE UNITS IN ACCESSIBLE LOCATIONS.
3. SINK AND LAVATORY WATER SUPPLY STUB OUTS SHALL BE COPPER PIPE WITH SUPPORT BRACKET FASTENED IN WALL CAVITY.
4. FIRE SEAL ALL PENETRATIONS THRU RATED STRUCTURES TO MAINTAIN FIRE RATING.
5. REFER TO PLUMBING FIXTURE SCHEDULE ON SHEET P601 FOR FIXTURE ROUGH-IN PIPE SIZES. REFER TO ISOMETRIC SHEETS P301 AND P302 FOR ADDITIONAL PIPE SIZES.
6. PROVIDE ACCESS PANELS FOR ALL VALVES/DEVICES ABOVE HARD CEILINGS AND BEHIND WALLS.
7. ALL GAS PIPE SHALL COMPLY WITH IFGC. BRANCH LINES SHALL TAP OFF TOP OF GAS MAINS AND INSTALL SHUT-OFF VALVE ON BRANCH LINE.
8. TRAP PRIMER LINES SHALL BE COPPER TYPE "K" OR PEX-a TUBING WITH CONTINUOUS SLOPE TOWARDS DRAIN CONNECTION.
9. FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK.

KEYED NOTES

(1) INSTALL ELECTRIC TRAP PRIMER ASSEMBLY (TP-1) ABOVE LAY-IN CEILING IN ACCESSIBLE LOCATION. ROUTE (4) 1/2" DISCHARGE LINES TO FLOOR DRAINS IN THIS AREA. COORDINATE POWER WITH EC. SEE DETAIL 1/P501.

(2) INSTALL ELECTRIC TRAP PRIMER ASSEMBLY (TP-1) ABOVE LAY-IN CEILING IN ACCESSIBLE LOCATION. ROUTE (3) 1/2" DISCHARGE LINES TO FLOOR DRAINS OR FLOOR SINKS IN THIS AREA. COORDINATE POWER WITH EC. SEE DETAIL 1/P501.

(3) INSTALL ELECTRIC TRAP PRIMER ASSEMBLY (TP-1) ABOVE LAY-IN CEILING IN ACCESSIBLE LOCATION. ROUTE (2) 1/2" DISCHARGE LINES TO FLOOR DRAINS IN THIS AREA. COORDINATE POWER WITH EC. SEE DETAIL 1/P501.

(4) FIELD VERIFY LOCATION OF EXISTING WALL HYDRANT AND CONNECT NEW 3/4" CW TO EXISTING PIPE SERVING WALL HYDRANT.

(5) ROUTE INSULATED 2 1/2" CW PIPE DOWN WITH BALL VALVE AT 24" AFF. AND CONNECT TO NEW WATER SERVICE.

(6) ROUTE 2" CW PIPE DOWN TO BELOW FLOOR. INSTALL ACCESS PANEL IN BACK OF CABINET FOR BALL VALVE. SEE SHEET P101 FOR CONTINUATION.

(7) ROUTE 1/2" CW, 1/2" HW AND 1 1/2" VENT IN CHASE TO SERVE LAVATORY. INSTALL THERMOSTATIC MIXING VALVE (TMV-1) BELOW FIXTURE. SEE DETAIL 5/P501.

(8) 1/2" CW, 1/2" HW AND 1 1/2" VENT DOWN IN WALL TO SERVE SINK. INSTALL THERMOSTATIC MIXING VALVE (TMV-1) BELOW FIXTURE. SEE DETAIL 5/P501.

(9) 1/2" CW, 1/2" HW AND 1 1/2" VENT DOWN INTO FUR OUT OF EXISTING CMU WALL TO SERVE SINK. INSTALL THERMOSTATIC MIXING VALVE (TMV-1) BELOW FIXTURE. SEE DETAIL 5/P501. COORDINATE PIPE ROUTING WITH ARCHITECT AND GC.

(10) INSTALL TRAP PRIMER (TP-2) UNDER LAVATORY. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SEE DETAIL 11/P501.

(11) COORDINATE WITH STRUCTURAL FOR DEBRIS GUARD BELOW SHELTER ROOF FOR PLUMBING VENT ROOF PENETRATION.

(12) 1/2" CW, 1/2" HW AND 1 1/2" VENT DOWN IN WALL TO SERVE LAVATORY. INSTALL THERMOSTATIC MIXING VALVE (TMV-1) BELOW FIXTURE. SEE DETAIL 5/P501.

(13) 3/4" CW UP TO ROOF HYDRANT. SEE SHEET P201 FOR CONTINUATION.

(14) ROUTE 1/2" CW, 3/4" HW AND 3/4" HWR DOWN IN WALL WITH PEX TUBING TO BELOW FLOOR TO SERVE ISLAND PREP SINK.

(15) ROUTE 1" NG (LOW PRESS) BEHIND EQUIPMENT AND PROVIDE 3/4" GAS TO KITCHEN EQUIPMENT (33 & 34) PROVIDED BY KEC. PROVIDE SHUT-OFF VALVE AND FINAL UNIT CONNECTION. SEE DETAIL 3/P501.

(16) ROUTE 1/2" CW, 1/2" HW AND 2" VENT IN FUR OUT OF EXISTING CMU WALL TO SERVE HAND SINK (#8) PROVIDED BY KEC. PROVIDE THERMOSTATIC MIXING VALVE TMV-1 AND PIPE WRAP UNDER FIXTURE. COORDINATE PIPE ROUTING WITH GC.

(17) CONNECT NEW 1 1/4" NATURAL GAS LINE (2 PSI) TO EXISTING 3" NATURAL GAS RISER AND ROUTE NEW LINE INTO BUILDING.

(18) ROUTE 3/4" CW DOWN IN WALL WITH TRANSITION TO PEX TUBING TO BELOW FLOOR TO SERVE ICE MAKER PROVIDED BY KEC. ROUGH-IN AND PROVIDE FINAL UNIT CONNECTION.

(19) INSTALL 3/4" NATURAL GAS (2 PSI) BALL VALVE AND PRESSURE REGULATOR (KITCHEN EQUIP). INSTALL GAS SOLENOID VALVE FURNISHED BY KITCHEN EQUIPMENT SUPPLIER AND COORDINATE POWER WITH EC TO INTERLOCK WITH EXHAUST HOOD FIRE SUPPRESSION SYSTEM. ROUTE 1" NG (LOW PRESS) TO KITCHEN EQUIPMENT.

(20) ROUTE 1/2" CW, 3/4" HW AND 3/4" HWR UP FROM BELOW FLOOR, TRANSITION TO COPPER PIPE AND CONNECT TO COOK'S TABLE SINK PROVIDED BY KEC. ROUGH-IN AND PROVIDE FINAL UNIT CONNECTION.

(21) INSTALL 1/2" BALL VALVE AND PRESSURE REGULATOR IN NATURAL GAS LINE SUPPLYING DRYER #6. PROVIDE 1/2" LOW PRESSURE GAS DOWN IN WALL TO GAS VALVE BOX (GVB-1) AND FLEXIBLE CONNECTION TO UNIT.

(22) CLOTHES WASHER FURNISHED BY OTHERS. ROUGH-IN AND MAKE FINAL CONNECTION. PROVIDE 1/2" CW AND 1/2" HW LINES DOWN IN WALL TO LAUNDRY BOX. CONNECT FLEXIBLE SUPPLY LINES TO WASHER. ROUTE WASHER DRAIN LINE INTO WALL BOX DRAIN FITTING AND SECURE. COORDINATE WITH EQUIPMENT SUPPLIER.

(23) COORDINATE WITH FOOD SERVICE CONTRACTOR FOR ROUTING CONDENSATE DRAIN LINES TO FLOOR DRAIN FROM FREEZER OR COOLER. SEE SHEET FS301.

1 PLUMBING PLAN - ABOVE GRADE

SCALE: 3/32" = 1'-0"

NORTH

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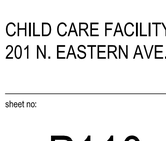

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MOORE PUBLIC SCHOOLS

CHILD CARE FACILITY
201 N. EASTERN AVE.

sheet no:

P110

Salas O'Brien
2900 S. Telephone Road, Suite 120
Moore, OK 73160
Salas O'Brien Registration: CA# 7058
Expiration Date : 6/30/2025
Salas O'Brien Project Number: 2450-70304-00

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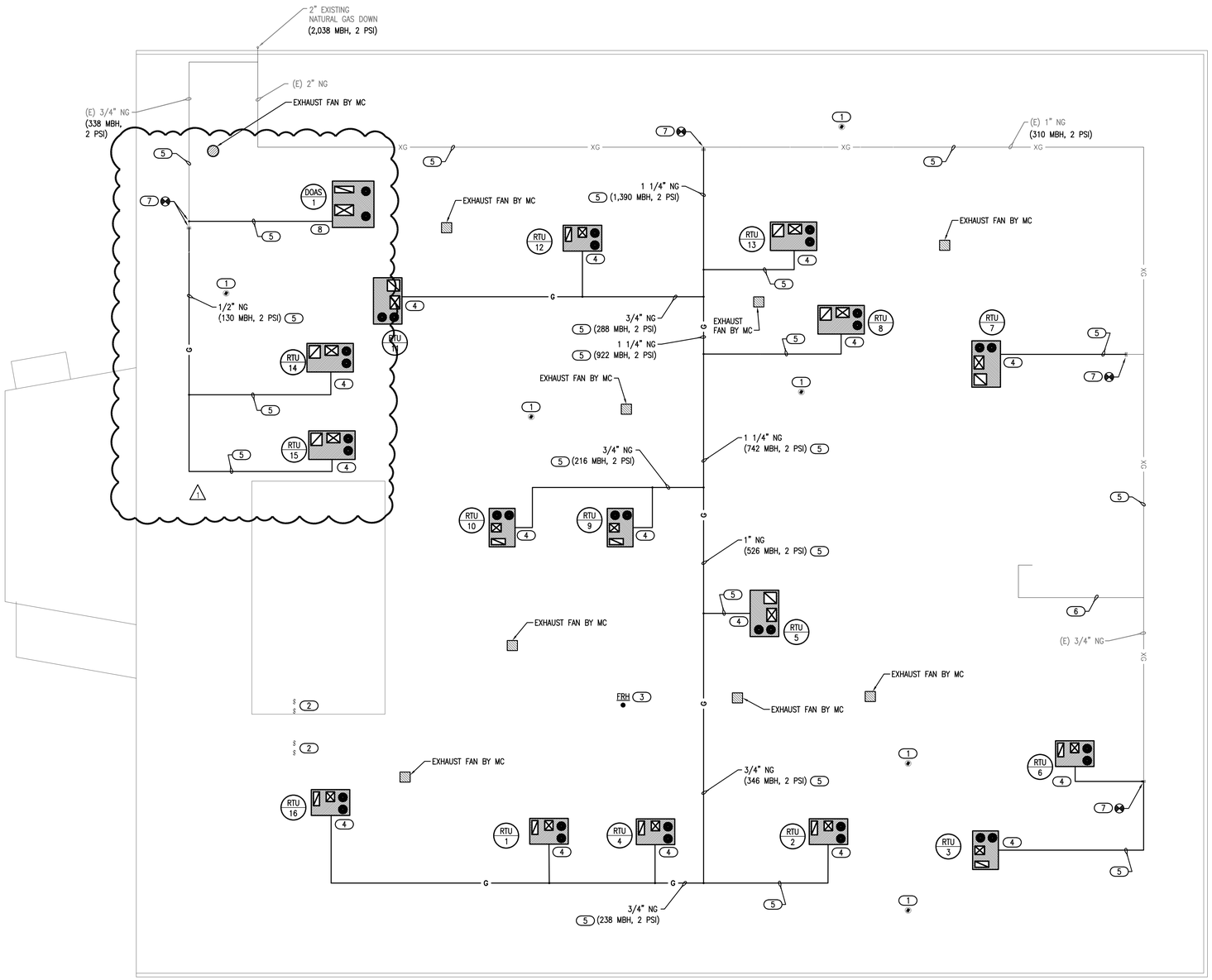

1 PLUMBING ROOF PLAN

SCALE: 3/32" = 1'-0"

NORTH

GENERAL NOTES

1. COORDINATE WITH WITH ALL OTHER TRADES ON SITE.
2. FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
3. MAINTAIN A MINIMUM OF 10'-0" CLEAR BETWEEN EXHAUST AND INTAKE VENTS WITH MECHANICAL EQUIPMENT AND OTHER ROOF OPENINGS.
4. ALL ABOVE GRADE EXTERIOR NATURAL GAS PIPE SHALL BE CLEANED AND DEGREASED PRIOR TO BEING PRIMED THEN PAINTED YELLOW WITH WEATHER RESISTANT ZINC RICH PAINT.
5. PIPE IDENTIFICATION SHALL BE THE WORDS "NATURAL GAS" IN BLACK LETTERS AT 5 FOOT INTERVALS USING PLASTIC PIPE MARKERS OR STENCILED PAINTED LETTERS.
6. ALL GAS PIPE SHALL COMPLY WITH IFGC. BRANCH LINES SHALL TAP OFF TOP OF GAS MAINS AND INSTALL SHUT-OFF VALVE ON BRANCH LINE.

KEYED NOTES

1. COORDINATE INSTALLATION OF PLUMBING VENTS WITH ROOFING CONTRACTOR. INSTALL VENT A MINIMUM 10'-0" FROM ANY OPENINGS, EQUIPMENT, INTAKES OR EXHAUST VENTS.
2. COORDINATE INSTALLATION OF WATER HEATER CONCENTRIC VENT WITH ROOFING CONTRACTOR AND PER MANUFACTURER'S RECOMMENDATIONS. INSTALL VENT A MINIMUM OF 10'-0" FROM ANY OPENINGS, EQUIPMENT, INTAKES AND EXHAUST VENTS.
3. COORDINATE INSTALLATION OF FREEZELESS ROOF HYDRANT (FRH) WITH STRUCTURAL AND ROOFING CONTRACTOR.
4. INSTALL 1/2" NATURAL GAS LINE (2 PSI) TO ROOFTOP UNIT. PROVIDE SHUT-OFF VALVE, DRIP LEG, PRESSURE REGULATOR AND FINAL UNIT CONNECTION. ROUGH-IN AND COORDINATE FINAL CONNECTION WITH MECHANICAL CONTRACTOR. SEE DETAIL 8/P501.
5. INSTALL ROOF PIPE SUPPORTS FOR NATURAL GAS PIPE (2 PSI). PROVIDE MIRO INDUSTRIES MODEL 3-RAH-8 ROOF TOP SUPPORTS OR APPROVED EQUAL. INSTALL AT MAXIMUM OF 10'-0" ON CENTER FOR 1 1/4" PIPE OR LARGER. INSTALL AT 8'-0" ON CENTER FOR 1" AND 3/4" PIPE. INSTALL AT 6'-0" ON CENTER FOR 1/2" PIPE. REFER TO GENERAL NOTES FOR PAINTING GAS PIPE. SEE DETAIL 10/P501.
6. REMOVE GAS PIPING BACK TO MAIN AND CAP.
7. INSTALL NEW GAS PIPE TO EXISTING GAS MAIN FOR NEW MECHANICAL EQUIPMENT. FIELD VERIFY SIZE AND LOCATION.
8. INSTALL 3/4" NATURAL GAS LINE (2 PSI) TO DOAS UNIT. PROVIDE SHUT-OFF VALVE, DRIP LEG, PRESSURE REGULATOR AND FINAL UNIT CONNECTION. ROUGH-IN AND COORDINATE FINAL CONNECTION WITH MECHANICAL CONTRACTOR. SEE DETAIL 8/P501.

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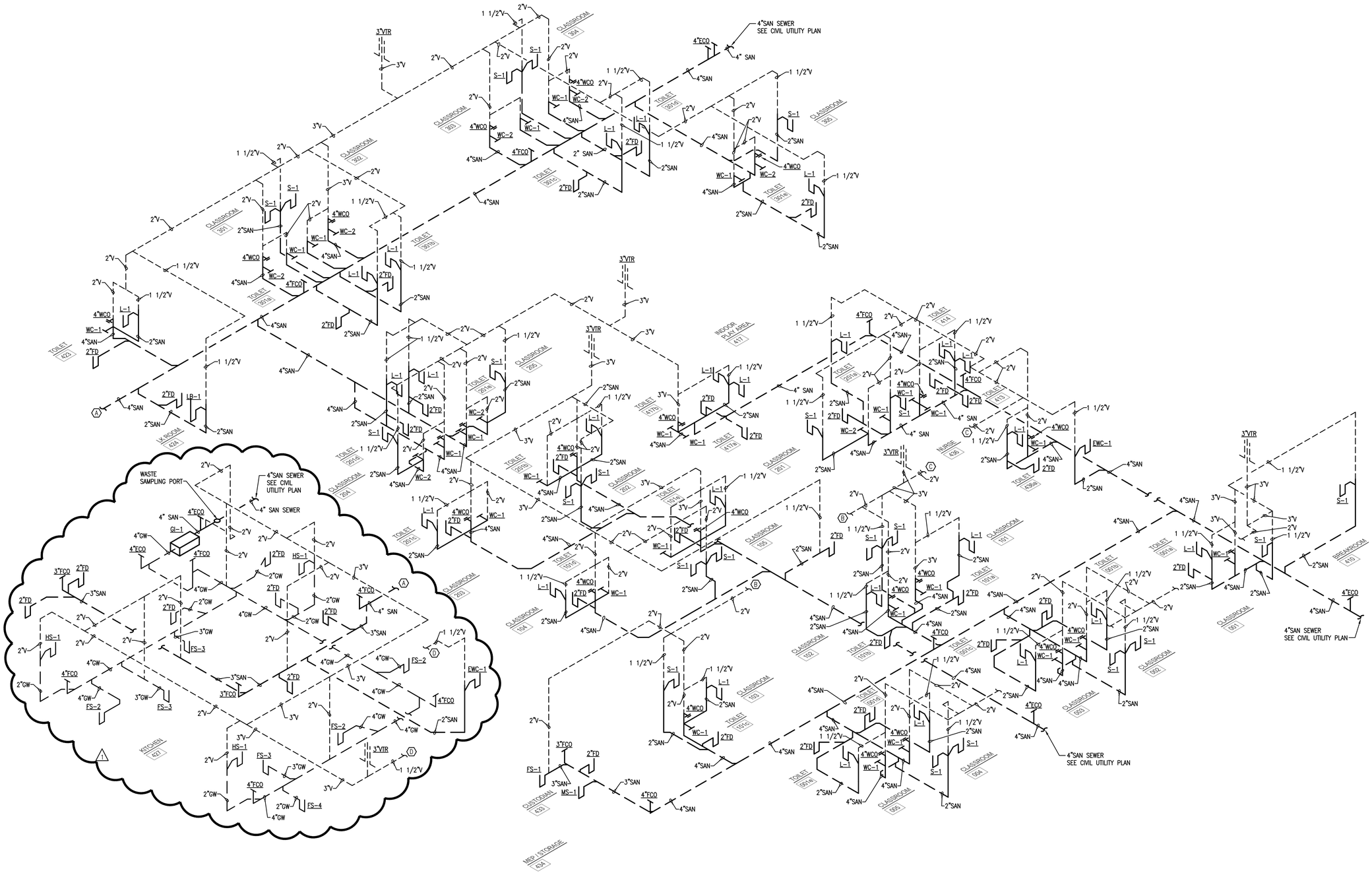

1 PLUMBING ISOMETRIC - WASTE & VENT

NO SCALE

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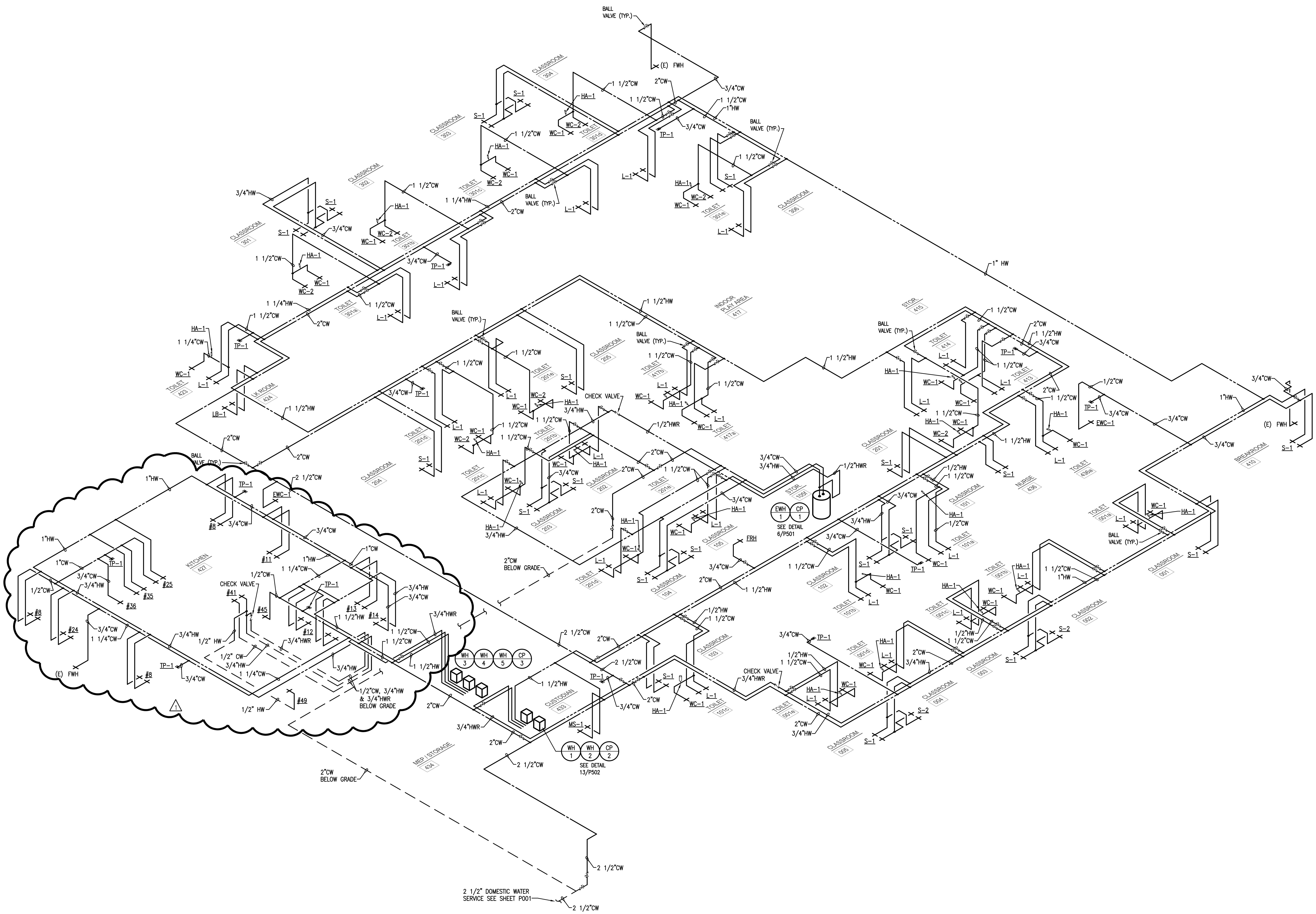

1 PLUMBING ISOMETRIC - WATER SUPPLY

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GAS LOAD TABLE

	INPUT (MBH)	REQUIRED PRESSURE	REQUIRED REGULATOR	SYSTEM PRESSURE	NOTES
RTU-1	65	7"	MAXITROL 325-3LB	2 PSI	1,3,4,5
RTU-2	108	7"	MAXITROL 325-3LB	2 PSI	1,3,4,5
RTU-3	65	7"	MAXITROL 325-3LB	2 PSI	1,3,4,5
RTU-4	108	7"	MAXITROL 325-3LB	2 PSI	1,3,4,5
RTU-5	180	7"	MAXITROL 325-5LB	2 PSI	1,3,4,5
RTU-6	65	7"	MAXITROL 325-3LB	2 PSI	1,3,4,5
RTU-7	180	7"	MAXITROL 325-5LB	2 PSI	1,3,4,5
RTU-8	180	7"	MAXITROL 325-5LB	2 PSI	1,3,4,5
RTU-9	108	7"	MAXITROL 325-3LB	2 PSI	1,3,4,5
RTU-10	108	7"	MAXITROL 325-3LB	2 PSI	1,3,4,5
RTU-11	180	7"	MAXITROL 325-5LB	2 PSI	1,3,4,5
RTU-12	108	7"	MAXITROL 325-3LB	2 PSI	1,3,4,5
RTU-13	180	7"	MAXITROL 325-5LB	2 PSI	1,3,4,5
RTU-14	65	7"	MAXITROL 325-5LB	2 PSI	1,3,4,5
RTU-15	65	7"	MAXITROL 325-3LB	2 PSI	1,3,4,5
RTU-16	65	7"	MAXITROL 325-3LB	2 PSI	1,3,4,5
DOAS-1	208	7"	MAXITROL 325-5LB	2 PSI	1,3,4,5
WH-1	199.9	7"	MAXITROL 325-5L	2 PSI	1,2,5
WH-2	199.9	7"	MAXITROL 325-5L	2 PSI	1,2,5
WH-3	199.9	7"	MAXITROL 325-5L	2 PSI	1,2,5
WH-4	199.9	7"	MAXITROL 325-5L	2 PSI	1,2,5
KITCHEN	254	10"	MAXITROL 325-5L	2 PSI	1,2,5
DRYER	50	7"	MAXITROL 325-3L	2 PSI	1,2,5
GEN SET	377	10"	MAXITROL 325-5L	2 PSI	1,2,5
TOTAL LOAD	3519 MBH				

NOTES:

1. INSTALL AND VENT REGULATOR PER MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE VENT LIMITING DEVICE FOR INDOOR REGULATORS EQUIPPED WITH INTEGRAL VENT LIMITING ORIFICE MODEL 12A09 OR 12A39.
3. COORDINATE WITH MECHANICAL CONTRACTOR FOR EQUIPMENT LOCATIONS AND REQUIRED CONNECTION.
4. PROVIDE VENT PROTECTOR DEVICE FOR OUTDOOR REGULATORS MODEL 13A15 OR 13A15-5.
5. GAS SYSTEM DESIGN FOR INITIAL METER OUTLET PRESSURE OF 2 PSIG WITH PRESSURE DROP OF 1 PSIG AND TOTAL LENGTH OF 450 FEET.

PLUMBING KITCHEN EQUIPMENT SCHEDULE

ITEM	DESCRIPTION	INDIRECT DRAIN	DIRECT DRAIN	VENT	CW	HW	GAS
3	MOP SINK	–	2"	1 1/2"	1/2"	1/2"	–
5	WASHER BY OWNER	–	2"	1 1/2"	1/2"	1/2"	–
6	DRYER BY OWNER	–	–	–	–	–	1/2" 50 MBH
8	HAND SINK	–	2"	1 1/2"	1/2"	1/2"	–
11	DISHWASHER	2"	–	–	1/2"	1/2"	–
12	SOILED DISHTABLE	(3) 2"	–	–	(2) 3/4"	(2) 3/4"	–
13	HOSE REEL	–	–	–	1/2"	1/2"	–
14	WATER TROUGH	2"	–	–	3/4"	3/4"	–
24	PREP TABLE	2"	–	–	1/2"	1/2"	–
25	FOOD ALLERGY WORKTABLE	2"	–	–	1/2"	1/2"	–
33	CONVECTION OVEN	–	–	–	–	–	(2) 3/4" 55 MBH
34	RANGE	–	–	–	–	–	3/4" 144 MBH
35	KETTLE	–	–	–	1/2"	1/2"	–
36	CONVECTION STEAMER	(2) 3/4"	–	–	3/4"	–	–
41	COOKS TABLE SINK	2"	–	–	1/2"	1/2"	–
45	ICEMAKER	3/4"	–	–	1/2"	–	–
47	MILK COOLER	3/4"	–	–	–	–	–
48	SERVING COUNTER	–	–	–	1/2"	–	–
49	COLD FOOD WELL	3/4"	–	–	–	–	–
51	HOT FOOD WELL	3/4"	–	–	–	1/2"	–

EQUIPMENT LISTED PROVIDED BY FOOD SERVICE CONTRACTOR (FSC). COORDINATE WITH FSC FOR REQUIRED CONNECTIONS.

GAS WATER HEATER SCHEDULE

MARK	LOCATION	TEMPERATURE RISE	FLOW RATE GAL/MIN	CAPACITY (GALLONS)	MBH INPUT MAX	AIR INTAKE	FLUE EXHAUST	MANUFACTURER & MODEL NO.	NOTES
WH 1	MEP/STORAGE RM 434	(50°F – 120°F) 70°F	5	TANKLESS	199.9	2"	2"	NAVIEN NPE-240A	ALL
WH 2	MEP/STORAGE RM 434	(50°F – 120°F) 70°F	5	TANKLESS	199.9	2"	2"	NAVIEN NPE-240A	ALL
WH 3	MEP/STORAGE RM 434	(50°F – 120°F) 70°F	5	TANKLESS	199.9	2"	2"	NAVIEN NPE-240A	ALL
WH 4	MEP/STORAGE RM 434	(50°F – 120°F) 70°F	5	TANKLESS	199.9	2"	2"	NAVIEN NPE-240A	ALL
WH 5	MEP/STORAGE RM 434	(50°F – 120°F) 70°F	5	TANKLESS	199.9	2"	2"	NAVIEN NPE-240A	ALL

NOTES:

1. INSTALL AND VENT PER MANUFACTURER'S RECOMMENDATIONS.
2. COORDINATE POWER SUPPLY WITH ELECTRICAL CONTRACTOR. POWER SUPPLY TO UNIT 120V, 2 AMP (GFCI OUTLET).
3. PROVIDE AMTROL ST-12 THERMAL EXPANSION TANK ON COLD WATER LINE. REFER TO DETAILS SHEET P501.
4. PROVIDE CLEAR WATER ENVIRO TECHNOLOGIES SCALEBLASTER MODEL SB-250 ELECTRONIC DESCALER. COORDINATE 120 VOLT OUTLETS WITH EC.
5. PROVIDE CIRCULATION PUMP WIRING FROM WATER HEATERS. COORDINATE POWER CONNECTIONS WITH EC.
6. PROVIDE NAVIEN CONDENSATE NEUTRALIZER KIT AND OVERFLOW BY-PASS PIPING TO FLOOR SINK PER MANUFACTURER'S RECOMMENDATIONS.
7. PROVIDE ONE COMMUNICATION CABLE FOR WH-1 / WH-2 AND TWO CABLES FOR WH-3, WH-4 & WH-5.
8. PROVIDE NAVIEN READY-LINK WALL MOUNT PIPING MANIFOLD SYSTEM FOR WATER HEATERS.
9. PROVIDE NAVIEN EXHAUST/INTAKE CONCENTRIC VENT KIT THRU ROOF.
10. SEE DETAIL 13/P502 FOR MORE INFORMATION.

ELECTRIC WATER HEATER SCHEDULE

MARK	LOCATION	TEMPERATURE RISE	CAPACITY GALLONS	AMPS	ELEMENT KW	VOLTAGE	PHASE	MANUFACTURER & MODEL NO.	NOTES
EWH 1	ELEC RM IN SAFEROOM	70 DEG @ 25 GPH	20	22	4.5	208	1	A.O. SMITH DEL-20	ALL

NOTES:

1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2. WATER HEATER OUTLET TEMPERATURE SET TO 120°F. VERIFY TEMPERATURE WITH OWNER.
3. PROVIDE AMTROL ST-5 THERMAL EXPANSION TANK ON COLD WATER LINE TO WATER HEATER.
4. PROVIDE HOLD RITE WALL SUPPORT PLATFORM MODEL 50-SWHP-W & RESTRAINT STRAP FOR WATER HEATER.
5. COORDINATE WIRING WITH E.C.
6. SEE DETAIL 6/P501 FOR MORE INFORMATION.

CIRCULATION PUMP SCHEDULE

MARK	MAXIMUM WORKING PRESSURE	MAXIMUM OPERATING TEMP (°F)	MOTOR				FLANGE SIZE (INCHES)	MATERIAL	MANUFACTURER & MODEL NO.
			ELECTRICAL CHAR	F.L. AMPS	HP	RPM			
CP 1	150 PSI	225	115/60/1	3.5	1/6	VARIES	3/4"	S.S.	BELL & GOSSETT ECOCIRC+ 20-18
CP 2	150 PSI	225	115/60/1	3.5	1/6	VARIES	3/4"	S.S.	BELL & GOSSETT ECOCIRC+ 20-18
CP 3	150 PSI	225	115/60/1	3.5	1/6	VARIES	3/4"	S.S.	BELL & GOSSETT ECOCIRC+ 20-18

NOTES:

1. PROVIDE GRUNDFOS BRONZE 3/4" FLANGE SET.
2. DATA: CP-1: 0.5 GPM AT 10 FEET HEAD.
3. DATA: CP-2: 1.5 GPM AT 8 FEET HEAD.
4. DATA: CP-3: 1 GPM AT 10 FEET HEAD.
5. PROVIDE 24 HOUR TIMER AND AQUASTAT – SET TIMER PER OWNER'S REQUIREMENTS.
6. COORDINATE WIRING WITH E.C.
7. SEE DETAIL 7/P501 FOR MORE INFORMATION.

GREASE INTERCEPTOR SCHEDULE

MARK	LOCATION	FLOW RATE (GPM)	LIQUID CAP. (GAL)	GREASE CAP.(LBS)	STANDARD CONNECTION	DIMENSIONS (INCHES)			WEIGHT (LBS)	MANUFACTURER & MODEL NO.	NOTES
						LENGTH	WIDTH	HEIGHT			
GI 1	EXTERIOR BELOW GRADE	100	277	1,865	4"	87	33	44	376	SCHIER GB-250	ALL

NOTES:

1. INSTALL AND VENT PER MANUFACTURER'S RECOMMENDATION AND LOCAL PLUMBING CODE.
2. INSTALL EXTERIOR BELOW GRADE GREASE INTERCEPTOR SO COVERS ARE FLUSH WITH FINISHED CONCRETE. PROVIDE EXTENSION RISER ASSEMBLY AS REQUIRED.
3. INSTALL GREASE INTERCEPTOR WITH REQUIRED CLEARANCES FOR ACCESS AND CLEANING.
4. PROVIDE SAMPLING PORT SCHIER SV10 WITH EXTENSION RISER DOWNSTREAM OF INTERCEPTOR PER MANUFACTURER'S RECOMMENDATIONS.
5. SEE DETAIL 14/P502 FOR ADDITIONAL INFORMATION.

GREASE INTERCEPTOR SIZING

GREASE INTERCEPTOR SIZED TO COMPLY WITH INTERNATIONAL PLUMBING CODE 2018 AND PDI-G101.
FIXTURES DRAINING TO GREASE INTERCEPTOR:

3-COMPARTMENT SINK:
20" x 20" x 14" x 3 = 16,800 CU INCHES / 231 = 58 GAL x 75% = 54.5 GALLONS

HANDSINKS: 3 FIXTURES X 1.5 GPM = 4.5 GPM

COOKS TABLE SINK #41:
18" x 18" x 12" = 3,888 CU INCHES / 231 x 75% = 13 GALLONS

PREP TABLE SINK #25:
12" x 15" x 10" = 1,800 CU INCHES / 231 x 75% = 6 GALLONS

DISHWASHER: 36 GALLONS

PREP DOUBLE SINK:
18" x 18" x 14" = 4,536 CU INCHES x 2 / 231 x 75% = 30 GALLONS

FLOOR SINKS WITH 2" OUTLET: 2 FIXTURES: 2 GPM x 2 = 4 GPM

PRE-RINSE SINK:
18" x 18" x 10" = 3,240 CU INCHES / 231 x 75% = 10.5 GALLONS

TOTAL DRAIN FLOW PER 2 MINUTES = 158.5 GALLONS / 2 MIN = 80 GALLONS

USE INTERCEPTOR SIZED FOR FLOW RATE OF 100 GPM.

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	MANUFACTURER	MODEL	MOUNT	ROUGH-IN SCHEDULE				FITTINGS AND REMARKS
					COLD	HOT	WASTE	VENT	
L-1	LAVATORY ADA	AMERICAN STANDARD	0355.012	WALL	1/2"	1/2"	1 1/2"	1 1/2"	COLOR WHITE. PROVIDE CHICAGO FAUCET 420-ABCP, MCGUIRE HD155A GRID STRAINER, 8902C P-TRAP, LFBV2165CC 1/4 TURN SUPPLY STOPS. TRUEBRO LAV GUARD2 PIPE COVERS. ZURN WALL FIXTURE CARRIER. REFER TO ARCHITECT'S PLANS FOR HEIGHT AND WALL TYPE. INSTALL THERMOSTATIC MIXING VALVE TMV-1 UNDER FIXTURE. SEE DETAIL 5/P501.
WC-1	WATER CLOSET ADA	AMERICAN STANDARD	2257.101	WALL	1 1/4"	–	4"	–	COLOR WHITE. PROVIDE SLOAN ROYAL 111-1.6 SFSM BATTERY OPERATED FLUSH VALVE. PROVIDE BEMIS 1655SSCT OPEN FRONT ELONGATED SEAT, EXTERNAL CHECK HINGE, COLOR WHITE. ZURN NARROW WALL CARRIER. REFER TO ARCHITECT'S PLANS FOR HEIGHT AND WALL TYPE. ADA INSTALLATION.
WC-2	WATER CLOSET	AMERICAN STANDARD	2257.101	WALL	1 1/4"	–	4"	–	COLOR WHITE. PROVIDE SLOAN ROYAL 111-1.6 SFSM BATTERY OPERATED FLUSH VALVE. PROVIDE BEMIS 1655SSCT OPEN FRONT ELONGATED SEAT, EXTERNAL CHECK HINGE, COLOR WHITE. ZURN NARROW WALL CARRIER. REFER TO ARCHITECT'S PLANS FOR HEIGHT AND WALL TYPE.
S-1	SINK	ELKAY	LRAD1919602	COUNTERTOP	1/2"	1/2"	1 1/2"	1 1/2"	SINGLE BOWL 6" DEEP, 2 FAUCET HOLES, REAR CENTER DRAIN. PROVIDE ELKAY LKD35 DRAIN & ELKAY LK4062GN08T4 FAUCET, MCGUIRE 8912 P-TRAP & LFBV2165 SUPPLY STOPS. INSTALL MIXING VALVE TMV-1 UNDER SINK.
MS-1	MOP SINK	FIAT	TSB-3000 24x24x12	FLOOR	1/2"	1/2"	3"	1 1/2"	MOLDED STONE, 6" DROP FRONT, SS THRESHOLD. PROVIDE FIAT 832AA HOSE & WALL BRACKET, 889-CC MOP BRACKET, MSG2424 SS WALL GUARDS, PROVIDE T&S BRASS FAUCET B-0665-BSTR. PROVIDE ASSE 1011 APPROVED HOSE CONNECTION VACUUM BREAKER.
EWC-1	ELECTRIC WATER COOLER	ELKAY	LZSTLBWSSK	WALL	1/2"	–	1 1/2"	1 1/2"	DUAL LEVEL WITH SENSOR WATER BOTTLE FILLING STATION ON LOWER UNIT, VANDAL-RESISTANT, FILTERED, PUSH BUTTON ACTIVATION, 120 VOLT. PVC P-TRAP AND 1/4 TURN SUPPLY STOP. REFER TO ARCHITECT'S PLANS FOR MOUNTING HEIGHT. ADA INSTALLATION.
FD	FLOOR DRAIN	ZURN	ZN415-BZ1-P-VP	FLOOR	–	–	SEE PLANS	–	6" ROUND NICKEL BRONZE STRAINER, CAST IRON BODY ANCHOR FLANGE, CLAMP COLLAR, ADJUSTABLE COLLAR, ADJUSTABLE STRAINER HEIGHT, VANDAL-PROOF SECURED TOP, 1/2" TRAP PRIMER CONNECTION. SEE DETAIL 1/P501.
FS-1	FLOOR SINK	ZURN	ZN1910-K-2-23	FLOOR	–	–	3"	–	8"x8" TOP, 6" DEEP, CAST IRON BODY WITH WHITE A.R.E INTERIOR, ANCHOR FLANGE, 1/2 GRATE WITH NICKEL BRONZE FINISH & SEDIMENT BUCKET.
FS-2	FLOOR SINK	ZURN	ZS1901-K-2-23	FLOOR	–	–	4"	–	12"x12" TOP, 8" DEEP, CAST IRON BODY WITH WHITE A.R.E INTERIOR, ANCHOR FLANGE, STAINLESS STEEL FRAME, 1/2 GRATE, & SEDIMENT BUCKET.
FS-3	FLOOR SINK	ZURN	ZS1900-K-2-23	FLOOR	–	–	2"	–	12"x12" TOP, 6" DEEP, CAST IRON BODY WITH WHITE A.R.E INTERIOR, ANCHOR FLANGE, STAINLESS STEEL FRAME WITH 1/2 GRATE & SEDIMENT BUCKET.
FS-4	FLOOR SINK	ZURN	ZS1910-K-P-2-23	FLOOR	–	–	2"	–	8"x8" TOP, 6" DEEP, CAST IRON BODY WITH WHITE A.R.E INTERIOR, ANCHOR FLANGE, 1/2" TRAP PRIMER CONNECTION, STAINLESS STEEL FRAME WITH 1/2 GRATE & SEDIMENT BUCKET.
FCO	FLOOR CLEANOUT	ZURN	ZN1400-K-VP	FLOOR	–	–	SEE PLANS	–	ADJUSTABLE, CAST IRON BODY, ANCHOR FLANGE, ABS THREAD PLUG, ROUND SCORIATED TOP WITH NICKEL BRONZE FINISH, VANDAL RESISTANT COVER SCREWS.
WCO	WALL CLEANOUT	ZURN	Z1446-VP	WALL	–	–	SEE PLANS	–	CAST IRON CLEANOUT TEE, THREAD ABS PLUG, STAINLESS STEEL ROUND ACCESS COVER WITH VANDAL RESISTANT SECURING SCREW.
ECO	EXTERIOR CLEANOUT	ZURN	Z1474-N-VP	GRADE	–	–	SEE PLANS	–	CAST IRON CLEANOUT ACCESS HOUSING, ANCHOR FLANGE, SECURED GASKETED COVER WITH CLEANOUT FERRULE WITH ABS PLUG. VANDAL PROOF COVER SCREWS.
HA-1	HAMMER ARRESTOR	WATTS	LF15M2	PIPE	VARIES	–	–	–	LEAD-FREE DESIGN, PDI WH201 LISTED, MAINTENANCE FREE, INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
TP-1	TRAP PRIMER (ELECTRIC)	PRECISION PLUMBING PRODUCTS	PTS-4	PIPE	3/4"	–	–	–	ELECTRONIC UNIT ENCLOSED IN METAL CABINET WITH 24 HOUR TIMER, SOLENOID VALVE, VACUUM BREAKER, 3/4" CW INLET, HAMMER ARRESTOR & 1/2" OUTLETS, WATER , 120V POWER HARDWIRED. PROVIDE STRAINER PRIOR TO UNIT. COORDINATE 120 VOLT POWER OUTLET WITH EC. SEE DETAIL 1/P501.
TP-2	TRAP PRIMER	PRECISION PLUMBING PRODUCTS	PRO1-ULP500	PIPE	1/2"	–	–	–	UNDER FIXTURE TRAP PRIMER VALVE, CHROME PLATED, 1/2" CW INLET WITH ANGLE STOP, 3/8" OUTLET TO FAUCET, AIR GAP WITH 1/2" OUTLET TO FLOOR DRAIN. WALL ESCUTCHEON. MOUNT MINIMUM 12" ABOVE FLOOR. SEE DETAIL 11/P501.
TMV-1	THERMOSTATIC MIXING VALVE	WATTS	LFMMV-M1	BELOW FIXTURE	1/2"	1/2"	–	–	LEAD FREE MIXING VALVE WITH ADJUSTABLE TEMPERATURE SET-POINT & LOCKABLE, INTEGRAL CHECK STOPS & STRAINERS, 1/2" INLETS & OUTLET. SET OUTLET TEMP AT 105 DEGREES F. ASSE 1070 LISTED.
AP-1	ACCESS PANEL	ACUDOR	UF-5000 14x14 CLSS	WALL	–	–	–	–	14"x14" STEEL, 16 GAGE DOOR & FRAME, 18 GAGE MOUNTING FRAME. CONCEALED HINGE, CYLINDER LOCK & KEY, STAINLESS STEEL FINISH. CONCEALED FASTENING POINTS.
CD-1	CLOTHES DRYER	PROVIDED BY OTHERS	–	FLOOR	–	–	–	–	DRYER INSTALLED BY OTHERS. PC SHALL ROUGH-IN & MAKE FINAL CONNECTIONS. PROVIDE 1/2" DORMONT NATURAL GAS FLEXIBLE GAS LINE WITH BALL VALVE, SWIVEL CONNECTIONS & 36" LENGTH. LOW PRESSURE GAS. COORDINATE WITH UNIT SUPPLIER. 20 MBH GAS LOAD.
WM-1	WASHING MACHINE	PROVIDED BY OTHERS	–	FLOOR	3/4"	3/4"	3"	–	MACHINE INSTALLED BY OTHERS. PC SHALL ROUGH-IN & MAKE FINAL CONNECTIONS. ROUTE DRAIN HOSE TO LAUNDRY BOX DRAIN. CONNECT FLEXIBLE WATER HOSES TO WALL BOX & MACHINE. COORDINATE WITH UNIT SUPPLIER.
LB-1	LAUNDRY BOX	SIOUX CHIEF	696RG2313WF	WALL	1/2"	1/2"	2"	1 1/2"	FIRE RATED RECESSED WALL MOUNTED BOX WITH FLANGE, 1/4 TURN BALL VALVES WITH HAMMER ARRESTORS, 3/4" THREADED OUTLETS, DRAIN CONNECTION. COORDINATE INSTALL HEIGHT FOR CLOTHES WASHER.
GVB-1	GAS VALVE BOX	SIOUX CHIEF	696R1020GF	WALL	–	–	–	–	FIRE RATED RECESSED WALL MOUNTED BOX WITH FLANGE, NATURAL GAS 1/4 TURN BALL VALVE, 1/2" THREADED OUTLET. PROVIDE DORMONT FLEXIBLE GAS LINE. COORDINATE INSTALL HEIGHT FOR CLOTHES DRYER GAS CONNECTION

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KFC ENGINEERING
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SALAS O'BRIEN
MECHANICAL / ELECTRICAL

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MOORE PUBLIC SCHOOLS

CHILD CARE FACILITY
201 N. EASTERN AVE.

sheet no:

P601

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LIGHT FIXTURE SCHEDULE

TYPE	SYMBOL	DESCRIPTION	MANUFACTURER	REFERENCE CATALOG #
A1		2X4 LED FLAT PANEL. 26W, 4000 LUMENS, 3500K CCT. 0-10V DIMMING.	LITHONIA	CPX 2X4 ALO8 80CRI SWW7 SWL MVOLT
A1E		2X4 LED FLAT PANEL. 26W, 4000 LUMENS, 3500K CCT. 0-10V DIMMING. PROVIDE WITH UL924 DEVICE	LITHONIA	CPX 2X4 ALO8 80CRI SWW7 SWL MVOLT
A2		2X4 LED FLAT PANEL. 36W, 5000 LUMENS, 3500K CCT. 0-10V DIMMING.	LITHONIA	CPX 2X4 ALO8 80CRI SWW7 SWL MVOLT
A2E		2X4 LED FLAT PANEL. 36W, 5000 LUMENS, 3500K CCT. 0-10V DIMMING. PROVIDE WITH UL924 DEVICE.	LITHONIA	CPX 2X4 ALO8 80CRI SWW7 SWL MVOLT
A3		2X4 LED FLAT PANEL. 45W, 6000 LUMENS, 3500K CCT. 0-10V DIMMING.	LITHONIA	CPX 2X4 ALO8 80CRI SWW7 SWL MVOLT
A3E		2X4 LED FLAT PANEL. 45W, 6000 LUMENS, 3500K CCT. 0-10V DIMMING. PROVIDE WITH UL924 DEVICE.	LITHONIA	CPX 2X4 ALO8 80CRI SWW7 SWL MVOLT
A4		2X2 LED FLAT PANEL. 35W, 4000 LUMENS, 3500K CCT. 0-10V DIMMING.	LITHONIA	CPX 2X2 ALO7 80CRI SWW7 SWL MVOLT
C		6" LED RECESSED LED DOWNLIGHT. 13W, 1000 LUMEN, 3500K CCT. 0-10V DIMMING.	LITHONIA	LBR6 NCH ALO2 SWW1 AR LSS WD MVOLT UGZ
CE		6" LED RECESSED LED DOWNLIGHT. 13W, 1000 LUMEN, 3500K CCT. 0-10V DIMMING. PROVIDE WITH UL924 DEVICE.	LITON	LBR6 NCH ALO2 SWW1 AR LSS WD MVOLT UGZ
EX		LED EXIT SIGN, STAINLESS STEEL FACE WITH RED LETTERS, UNIVERSAL FACE AND MOUNTING, PROVIDE WITH UL924 DEVICE.	LIFE SAFETY LIGHTING	LSXDC 3 R A A EM SDT
L		2" X 4' LED EXTERIOR FIXTURE 1028 LUMENS/FT, 4000K CCT. SURFACE MOUNT	A-LIGHT	LIN 3 SP M4 LH 40 U HE F X D
LE		2" X 4' LED EXTERIOR FIXTURE 1028 LUMENS/FT, 4000K CCT. SURFACE MOUNT PROVIDE WITH UL924 DEVICE.	A-LIGHT	LIN 3 SP M4 LH 40 U HE F X D EC
P2		6" CIRCULAR LED PENDANT. 156W, 13,000 LUMENS, 3500K CCT. 0-10V DIMMING.	DELRAY	UCDC6 W35 SR D
P2E		6' CIRCULAR LED PENDANT. 156W, 13,000 LUMENS, 3500K CCT. 0-10V DIMMING. PROVIDE WITH UL924 DEVICE.	DELRAY	UCDC6 W35 SR D
S		4" LED LENSED STRIP FIXTURE. 35W, 5000 LUMENS, 4000K CCT. 0-10V DIMMING.	LITHONIA	CSS L48 ALO3 MVOLT SWW3 80CRI
SE		4" LED LENSED STRIP FIXTURE. 35W, 5000 LUMENS, 4000K CCT. 0-10V DIMMING. PROVIDE WITH UL924 DEVICE.	LITHONIA	CSS L48 ALO3 MVOLT SWW3 80CRI
T		4" LED VAPOR TIGHT STRIP FIXTURE. 42W, 5000 LUMENS, 4000K CCT. 0-10V DIMMING.	LITHONIA	CSVT L48 ALO3 MVOLT SWW3 80CRI
TE		4" LED VAPOR TIGHT STRIP FIXTURE. 42W, 5000 LUMENS, 4000K CCT. 0-10V DIMMING. PROVIDE WITH UL924 DEVICE.	LITHONIA	CSVT L48 ALO3 MVOLT SWW3 80CRI
V		2' LED VANITY FIXTURE. 9W, 300 LUMENS/FT DIRECT AND INDIRECT, 3500K CCT. 0-10V DIMMING.	MARK LIGHTING	S2WID LLP 2FT MSL2 80CRI 35K 300LMF I80 I35K I300LMF AS SCT MIN10 FL MVOLT WHTT ZT
W1E		2400 LUMEN, 4000K CT, LED WALL PACK PROVIDE WITH UL924 DEVICE.	LITHONIA	WPX1 LED P2 40K MVOLT DBLXD

GENERAL NOTES:
EQUIVALENT ALTERNATE LIGHT FIXTURES MAY BE PROVIDED FOR BIDDING PURPOSES. THE ENGINEER DOES NOT TAKE RESPONSIBILITY FOR ENSURING ALTERNATE LIGHT FIXTURES USED FOR BIDDING ARE EQUAL; THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALTERNATE FIXTURES ARE EQUIVALENT TO THOSE SPECIFIED PRIOR TO BID. THE WINNING BID PACKAGE SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW IN ACCORDANCE WITH THE SPECIFICATIONS.

ELECTRICAL ABBREVIATIONS

AC	ABOVE COUNTERTOP	MC	MECHANICAL CONTRACTOR
AFF	ABOVE FINISH FLOOR	MCA	MINIMUM CIRCUIT AMPS
AFG	ABOVE FINISH GRADE	MCB	MAIN CIRCUIT BREAKER
ANNC	ANNUNICIATOR	MDP	MAIN DISTRIBUTION PANEL
CC	CONTROLS CONTRACTOR	MLO	MAIN LUG ONLY
DF	DRINKING FOUNTAIN	MTD	MOUNTED
EC	ELECTRICAL CONTRACTOR	NIC	NOT IN CONTRACT
EF	EXHAUST FAN	OCC	OCCUPANCY
ERMS	ENERGY REDUCTION MAINTENANCE SWITCH	PC	PLUMBING CONTRACTOR
		PNL	PANEL
EX	EXISTING	SPST	SINGLE POLE SINGLE THROW
EXR	EXISTING RELOCATED	TTB	TELEPHONE TERMINAL BOARD
GC	GENERAL CONTRACTOR	TYP	TYPICAL
GFI	GROUND FAULT INTERRUPT	WG	WIRE GUARD
HP	HORSEPOWER	WP	WEATHER PROOF
IBC	INTERNATIONAL BUILDING CODE	20A	20 AMP
IG	ISOLATED GROUND	ø	PHASE
LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS, AND GROUND	3W	3 WIRE
		1P20A	SINGLE POLE 20 AMP
LV	LOW VOLTAGE		
LVRP	LV RELAY PANEL		

SWITCH LEGEND	
SYMBOL	DESCRIPTION
$	20A, SPST SWITCH
$a	20A, LETTER INDICATES GROUP
$3	20A, 3-WAY
$4	20A, 4-WAY
$D	DIMMER SWITCH
$K	KEY OPERATED SWITCH
$OC	OCCUPANCY SENSOR SWITCH

GENERAL NOTE:
SEE SPECIFICATIONS FOR MANUFACTURERS

RECEPTACLE SCHEDULE	
SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE
	20A, 120V, 2P, 3W GROUNDING DUPLEX RECEPTACLE RECEPTACLE MTD. 6" ABOVE COUNTER OR HGT SHOWN
	GFCI RECEPTACLE
	GFCI RECEPTACLE, MTD. 6" ABOVE COUNTER OR HGT SHOWN
	20A, 120V, 2P, 3W GROUNDING DUPLEX GFCI RECEPTACLE – WEATHER PROOF (IN USE COVER)
J	JUNCTION BOX, AS NOTED
	QUADPLEX RECEPTACLE

GENERAL NOTE:
SEE SPECIFICATIONS FOR MANUFACTURERS

GENERAL ELECTRICAL NOTES

1. CONTRACTOR TO VERIFY EXISTING ELECTRICAL CONDITIONS AND NOTIFY ARCHITECT/ENGINEER OF ANY ELECTRICAL OR CODE ISSUES PRIOR TO BID. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE AND OPERATIONAL CODE COMPLIANT SYSTEM.
2. ALL WORK SHALL BE IN CONFORMANCE WITH NATIONAL, STATE, AND LOCAL CODES AND/OR ORDINANCES.
3. ELECTRICAL CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER CONTRACTORS & LOCAL UTILITY. E.C. SHALL CONTACT LOCAL UTILITY FOR EXACT SERVICE REQUIREMENTS TO INCLUDE BUT NOT LIMITED TO TRANSFORMER, METERING AND CABLING. LOCAL UTILITY REQUIREMENTS SUPERSEDE DRAWINGS AND SPECIFICATIONS.
4. SEE ARCHITECTURAL, MECHANICAL, & PLUMBING DRAWINGS FOR ADDITIONAL REQUIREMENTS.
5. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY. THEY ARE INTENDED TO GIVE APPROXIMATE LOCATIONS AND OVERALL DESIGN INTENT. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PRODUCTS, MATERIALS, AND ELECTRICAL METHODS WHICH HAVE NOT BEEN SHOWN OR INDICATED BUT ARE REQUIRED FOR A COMPLETE SYSTEM TO THE STANDARDS OF THE INDUSTRY.
6. INSTALL LIGHTING FIXTURES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE SUPPORTING DEVICES FOR ADEQUATE SUPPORT OF FIXTURES FROM STRUCTURE.
7. UPON COMPLETION OF THE ELECTRICAL WORK, THE INSTALLATION SHALL BE TESTED FOR CONTINUITY, GROUNDS, AND SHORT CIRCUITS. THE ELECTRICAL CONTRACTOR SHALL DEMONSTRATE PROPER PERFORMANCE OF ALL SYSTEMS. ALL DEFECTIVE WORK OR MATERIALS SHALL BE REPLACED OR REPAIRED AS NECESSARY AND RETESTED.
8. ELECTRICAL RACEWAYS THAT PENETRATE FIRE RATED ASSEMBLIES SHALL BE SLEEVED AND SEALED AS PER THE LOCAL BUILDING CODE.
9. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A TEMPORARY ELECTRICAL SYSTEM FOR THE PROJECT. AT LEAST ONE 120 VOLT SINGLE PHASE RECEPTACLE SHALL BE PROVIDED FOR EACH 500 SQUARE FEET OF FLOOR SPACE. SUFFICIENT TEMPORARY LIGHTING SHALL BE PROVIDED TO ALLOW ALL CONTRACTORS TO COMPLETE THEIR WORK. TEMPORARY ELECTRICAL CIRCUITS SHALL BE EQUIPPED WITH COMBINATION GROUND FAULT INTERRUPTER AND CIRCUIT BREAKER PER NEC. TEMPORARY ELECTRICAL SYSTEM SHALL BE INCLUDED IN THIS BID. USAGE CHARGES SHALL BE PAID FOR BY THE GENERAL CONTRACTOR.

ELECTRICAL LEGEND

	PANEL BOARD
	DISTRIBUTION PANEL BOARD
T	TRANSFORMER
	UTILITY METER
CB	SEPARATE CIRCUIT BREAKER
	DISCONNECT
	FUSED DISCONNECT SWITCH
	EMERGENCY FUSED DISCONNECT SWITCH
	MOTOR STARTER/CONTRACTOR
	COMBINATION MOTOR STARTER
	PUSH BUTTON STATION AS NOTED
P	PULL BOX, SIZE AS REQUIRED BY CODE
	ELECTRICAL CONNECTION
	MOTOR CONNECTION
	HOME RUN TO PANEL BOARD

ELECTRICAL SHEET INDEX

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SALAS O'BRIEN
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DWG
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1 11/22/2024 AD 02

MOORE PUBLIC SCHOOLS

CHILD CARE FACILITY
201 N. EASTERN AVE.

sheet no:

E000

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Expiration Date : 6/30/2025
Salas O'Brien Project Number: 2450-70304-00

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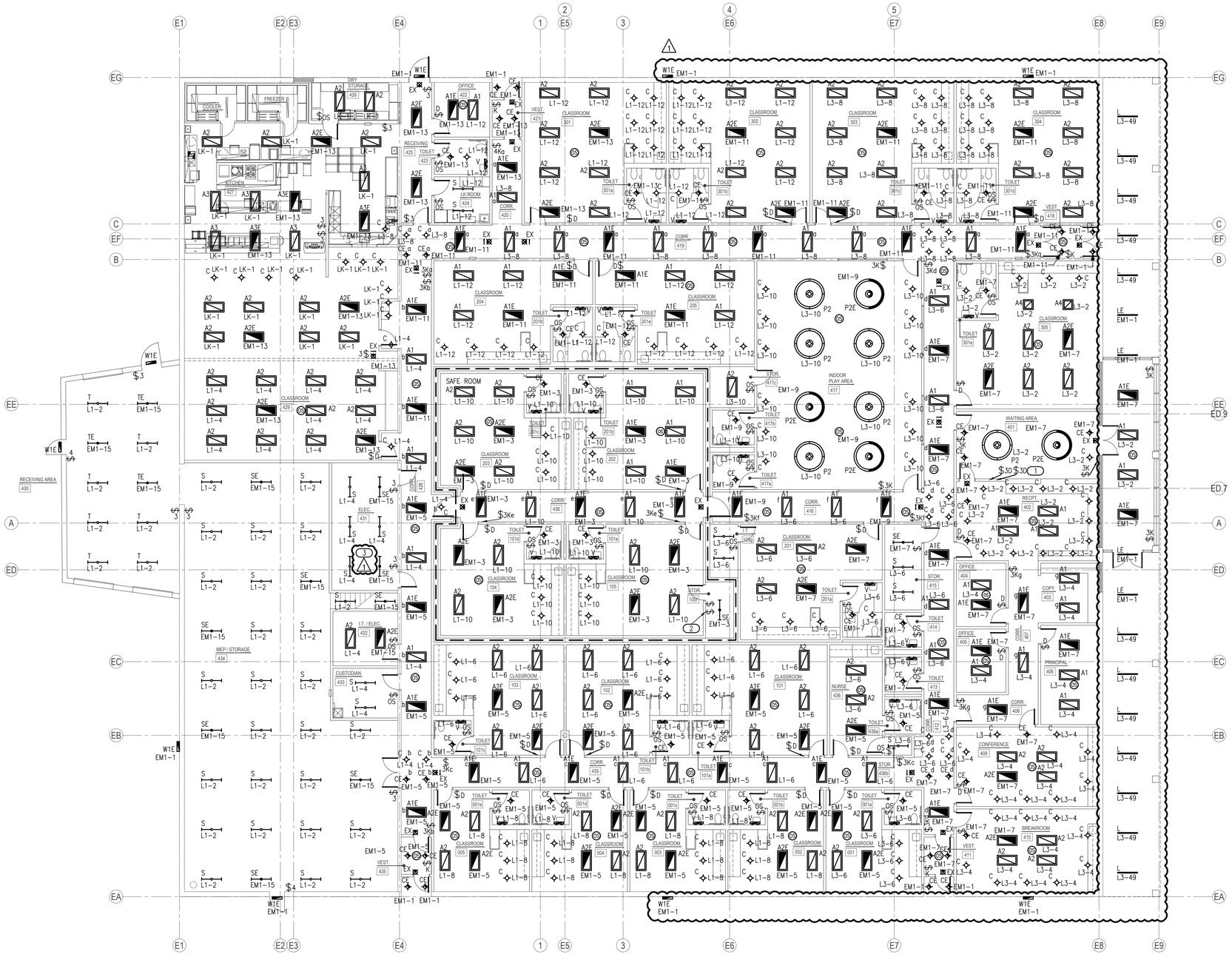

1 ELECTRICAL LIGHTING PLAN

SCALE: 3/32" = 1'-0"

NORTH

GENERAL NOTES

1. OCCUPANCY SENSOR LOCATIONS SHOWN ARE FOR DESIGN INTENT ONLY. LOCATE OCCUPANCY SENSORS PER MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
2. CONNECT BATTERY PACKS TO UNSWITCHED HOT OF LOCAL LIGHTING CIRCUIT.
3. COORDINATE WITH ALL ASSOCIATED TRADES FOR THE EXACT LOCATIONS OF LIGHT FIXTURES WITH HVAC EQUIPMENT AND OTHER DEVICES/EQUIPMENT.
4. COORDINATE WITH THE ARCHITECT, OWNER, AND ASSOCIATED TRADES FOR THE EXACT HEIGHT/LOCATION OF EXTERIOR MOUNTED LIGHTING FIXTURES PRIOR TO ROUGH-IN.
5. LABEL SWITCH PLATES AND J-BOXES WITH CIRCUIT PER SPECS.
6. COORDINATE LIGHT SWITCHES WITH THERMOSTATS AND OTHER WALL MOUNT DEVICES.
7. PROVIDE ELECTRONIC TIMER WITH INTEGRAL ASTRONOMICAL TIME CLOCK AND PHOTO CELL INPUT. LOCATE PHOTO CELL WITH CLEAR VIEW OF NORTHERN SKY AND SHIELD FROM ARTIFICIAL LIGHT SOURCES. TIMER SHALL CONTROL EXTERIOR LIGHTING.

SAFEROOM GENERAL NOTES

PER ICC 500-2014, 309.1:

PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE THAT ARE LARGER THAN:
1. 3.5" SQUARE INCHES IN AREA FOR RECTANGULAR OPENINGS, OR
2. 2 1/16" IN DIAMETER

SHALL BE CONSIDERED AN OPENING AND SHALL BE PROVIDED WITH AN OPENING PROTECTIVE DEVICE (SHROUD). REFERENCE STRUCTURAL DRAWINGS FOR A SAMPLE SHROUD DETAIL. THIS INCLUDES PENETRATIONS FOR BUNDLES OF CONDUIT.

KEYED NOTES

1. LIGHT SWITCH FOR 'WAITING AREA 401' LIGHT FIXTURES.
2. SUPPLY VENTILATION FAN SWITCH. COORDINATE WITH MECHANICAL CONTRACTOR.
3. DUPLICATE LIGHT FIXTURE PLACEMENT IN MEZZANINE AREA ABOVE. INSTALL LIGHT SWITCH IN MEZZANINE NEXT TO ENTRY WAY. (1)

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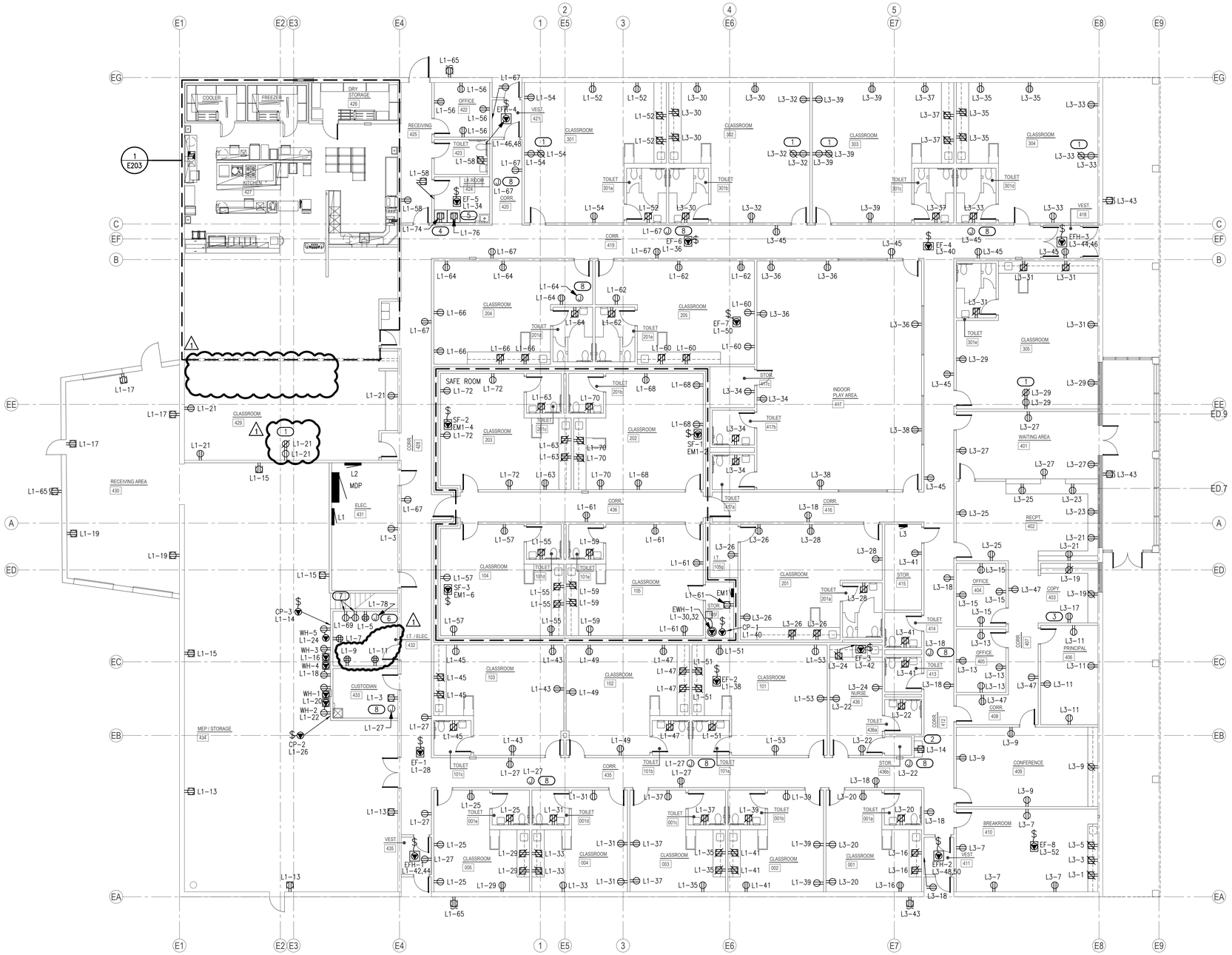

1 ELECTRICAL POWER PLAN

SCALE: 3/32" = 1'-0"

NORTH

GENERAL NOTES

1. COORDINATE EXACT LOCATIONS OF DEVICES SHOWN WITH OTHER EQUIPMENT. COORDINATE EXACT LOCATION OF CEILING MOUNTED DEVICES WITH LIGHTS, HVAC EQUIPMENT, AND OTHER DEVICES.
2. COORDINATE WITH MECHANICAL CONTRACTOR AND PROVIDE ALL RELAYS, CONNECTIONS, AND ALL DEVICES NECESSARY TO INTERLOCK EXHAUST FANS, DAMPERS, ETC WITH PROPER CONTROL DEVICES.
3. COORDINATE EXACT LOCATION OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR. REFER TO MECHANICAL PLANS AND MANUFACTURER FOR ADDITIONAL INFORMATION.
4. COORDINATE EXACT LOCATION OF PLUMBING EQUIPMENT WITH PLUMBING CONTRACTOR. REFER TO PLUMBING PLANS AND MANUFACTURER FOR ADDITIONAL INFORMATION.
5. ALL RECEPTACLES LOCATED AT COUNTERTOP HEIGHT SHALL BE ORIENTED HORIZONTALLY.
6. FIRE STOP ALL PENETRATIONS IN FIRE AND SMOKE RATED WALLS. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS AND ADDITIONAL INFORMATION

SAFEROOM GENERAL NOTES

PER ICC 500–2014, 309.1:

PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE THAT ARE LARGER THAN:
1. 3.5" SQUARE INCHES IN AREA FOR RECTANGULAR OPENINGS, OR
2. 2 1/16" IN DIAMETER

SHALL BE CONSIDERED AN OPENING AND SHALL BE PROVIDED WITH AN OPENING PROTECTIVE DEVICE (SHROUD). REFERENCE STRUCTURAL DRAWINGS FOR A SAMPLE SHROUD DETAIL. THIS INCLUDES PENETRATIONS FOR BUNDLES OF CONDUIT.

KEYED NOTES

1. PROVIDE 120V CONNECTION FOR SMARTBOARD. COORDINATE FINAL LOCATION AND REQUIREMENTS WITH OWNER/ARCHITECT PRIOR TO ROUGH IN. REFER TO DETAIL '9/E501' FOR ADDITIONAL INFORMATION.
2. PROVIDE 120V WATER COOLER DEDICATED CONNECTION. COORDINATE WITH THE ARCHITECT, PLUMBING CONTRACTOR, AND MANUFACTURER FOR THE EXACT LOCATION AND CONNECTION REQUIREMENTS PRIOR TO ROUGH–IN.
3. PROVIDE 120V COPY MACHINE DEDICATED CONNECTION. COORDINATE WITH THE ARCHITECT, OWNER, AND MANUFACTURER FOR THE EXACT LOCATION AND CONNECTION REQUIREMENTS PRIOR TO ROUGH–IN.
4. PROVIDE 120V GAS DRYER DEDICATED CONNECTION. COORDINATE WITH THE ARCHITECT, OWNER AND MANUFACTURER FOR THE EXACT LOCATION AND CONNECTION REQUIREMENTS PRIOR TO ROUGH IN.
5. PROVIDE 120V WASHER DEDICATED CONNECTION. COORDINATE WITH THE ARCHITECT, OWNER AND MANUFACTURER FOR THE EXACT LOCATION AND CONNECTION REQUIREMENTS PRIOR TO ROUGH IN.
6. PROVIDE 120V FIRE ALARM CONTROL PANEL DEDICATED CONNECTION. COORDINATE RECEPTACLE TYPE AND LOCATION WITH FIRE ALARM CONTRACTOR.
7. PROVIDE 120V TELECOM EQUIPMENT CONNECTION. COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER.
8. PROVIDE 120V CONNECTION FOR TRAP PRIMER. COORDINATE FINAL LOCATION AND REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH–IN.

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KFC ENGINEERING
STRUCTURAL

SALAS O'BRIEN
MECHANICAL / ELECTRICAL

DWG
drawn by
TVO
checked by
OCTOBER 2024
date

revisions
1 11/22/2024 AD 02

MOORE PUBLIC SCHOOLS

CHILD CARE FACILITY
201 N. EASTERN AVE.

sheet no:
E201

Salas O'Brien
2900 S. Telephone Road, Suite 120
Moore, OK 73160
Salas O'Brien Registration: CA# 7058
Expiration Date : 6/30/2025
Salas O'Brien Project Number: 2450-70304-00

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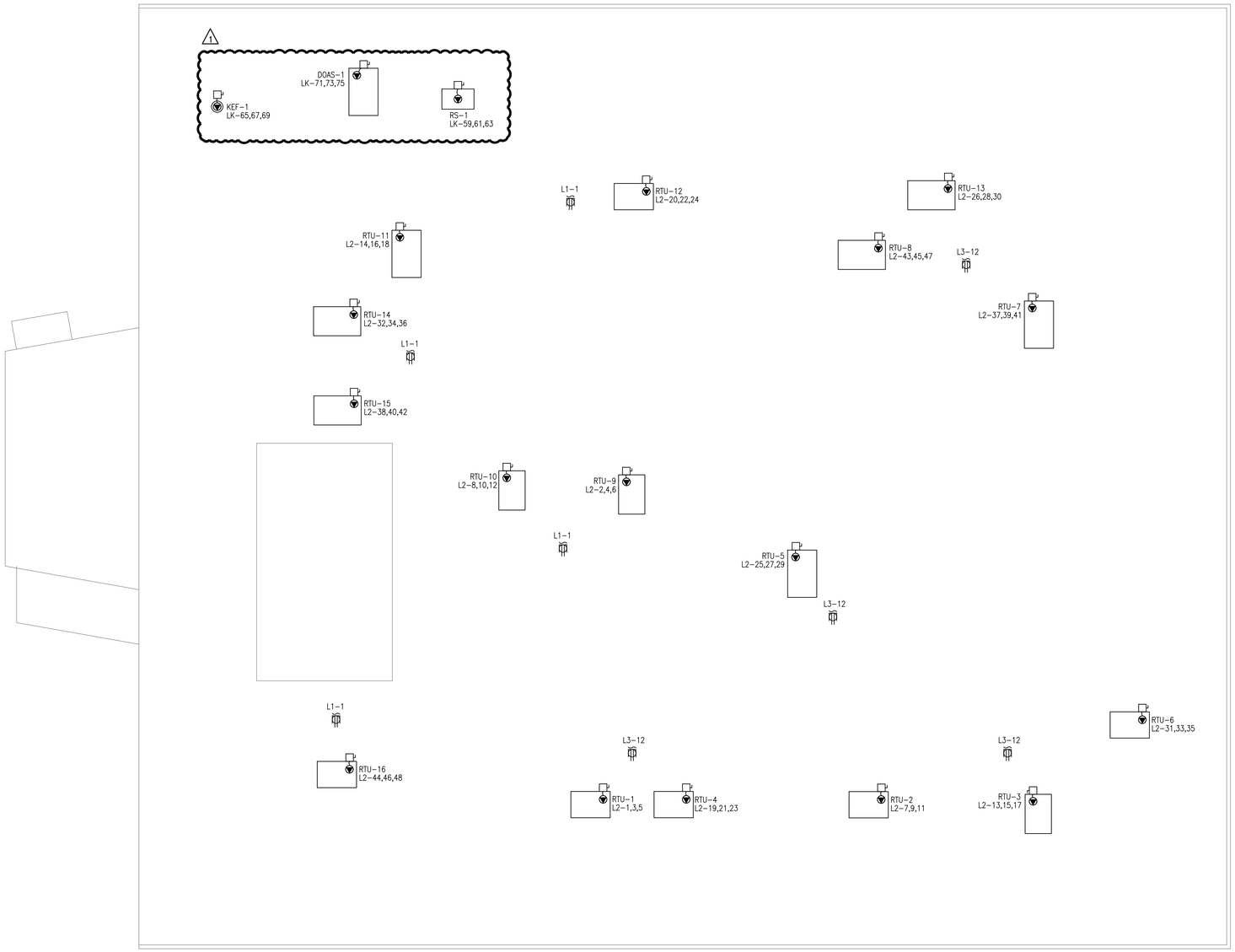
GENERAL NOTES

1. COORDINATE EXACT LOCATIONS OF DEVICES SHOWN WITH OTHER EQUIPMENT.
2. COORDINATE WITH MECHANICAL CONTRACTOR AND PROVIDE ALL RELAYS, CONNECTIONS, AND ALL DEVICES NECESSARY TO INTERLOCK EXHAUST FANS, DAMPERS, ETC WITH PROPER DEVICES.
3. COORDINATE EXACT LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR.
4. FIRMLY MOUNT WEATHERPROOF 120V CONVENIENCE OUTLET ON UNISTRUT/KINDORF. COORDINATE WITH OTHER TRADES PRIOR TO ROUGH-IN. REDUNDANT RECEPTACLES WHETHER STAND-ALONE OR INTEGRAL TO A UNIT, MAY BE OMITTED SO LONG AS ALL OF THE REQUIREMENTS OF NEC 210.63 ARE SATISFIED.



1 ELECTRICAL ROOF PLAN

SCALE: 3/32" = 1'-0"

NORTH

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MOORE PUBLIC SCHOOLS

CHILD CARE FACILITY
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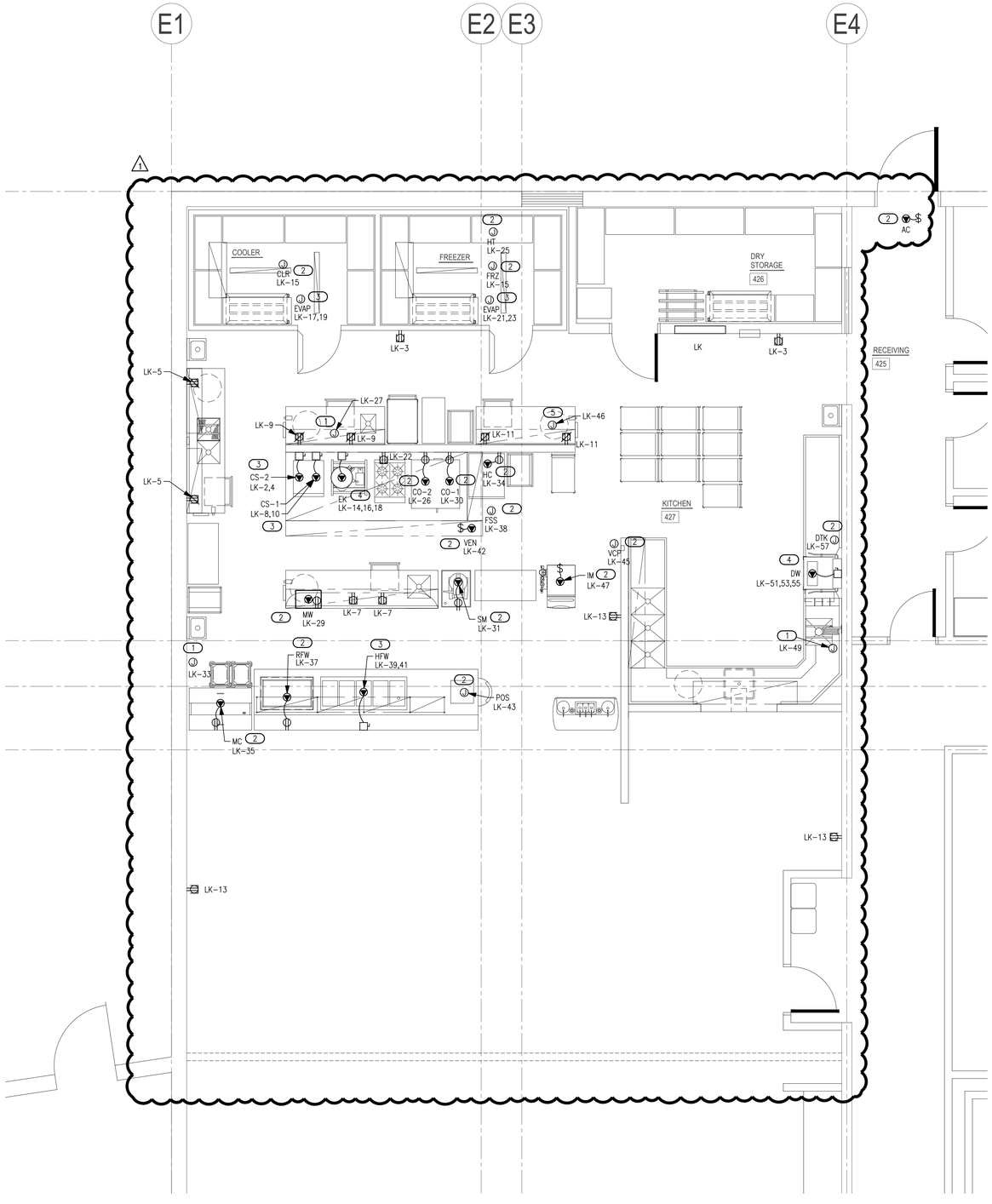

1 ENLARGED ELECTRICAL KITCHEN PLAN

SCALE: 1/4" = 1'-0"

NORTH

KITCHEN GENERAL NOTES

1. COORDINATE KITCHEN/FOODSERVICE EQUIPMENT EXACT INSTALLATION LOCATIONS AND REQUIREMENTS WITH THE ARCHITECT, MANUFACTURER, AND FOOD SERVICE CONTRACTOR PRIOR TO BEGINNING WORK. REFER TO FOOD SERVICE PLANS FOR ADDITIONAL INFORMATION.
2. COORDINATE KITCHEN HVAC EQUIPMENT EXACT INSTALLATION LOCATIONS AND REQUIREMENTS WITH THE ARCHITECT, MECHANICAL CONTRACTOR, AND ALL OTHER ASSOCIATED TRADES PRIOR TO ROUGH-IN. REFER TO MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
3. COORDINATE KITCHEN PLUMBING EQUIPMENT EXACT INSTALLATION LOCATIONS AND REQUIREMENTS WITH THE ARCHITECT, PLUMBING CONTRACTOR, AND ALL OTHER ASSOCIATED TRADES PRIOR TO ROUGH-IN. REFER TO PLUMBING PLANS FOR ADDITIONAL INFORMATION.
4. E.C. SHALL COORDINATE WITH OWNER, KITCHEN EQUIPMENT PROVIDER, AND OTHER TRADES PRIOR TO ROUGH IN TO ENSURE ALL ROUGH IN LOCATIONS ARE CONCEALLED IN THE WALL AND STUBBED OUT IN THE PROPER LOCATIONS.
5. GFCI PROTECTION REQUIRED FOR ALL 120V 15 AND 20A RECEPTACLES. BY GFCI FUNCTION ON BREAKER OR RECEPTACLE, PER NEC 210.8 (B) (2).
6. HOOD STAND ALONE FIRE SUPPRESSION SYSTEM SHALL HAVE INPUT TO BUILDING FIRE ALARM SYSTEM.
7. PROVIDE A 20 A MP, 1 HP, 120V POWER SUPPLY FOR KITCHEN EXHAUST FAN ANSUL SYSTEM. THE ACTIVATION OF THE FIRE SUPPRESSION SYSTEM SHALL AUTOMATICALLY SHUT DOWN THE FUEL AND ELECTRICAL POWER SUPPLY TO THE COOKING EQUIPMENT UNDER THE KITCHEN HOOD. THE FUEL AND ELECTRICAL POWER SUPPLY RESET SHALL BE MANUAL. SHUNT TRIP CIRCUIT BREAKERS SHALL BE USED FOR ELECTRICALLY SUPPLIED APPLIANCES LOCATED UNDER THE HOOD.

KEYED NOTES

1. PROVIDE 120V CONNECTION FOR TRAP PRIMER. COORDINATE FINAL LOCATION AND REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
2. PROVIDE 120V CONNECTION FOR EQUIPMENT. COORDINATE RECEPTACLE TYPE WITH EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN.
3. PROVIDE 208V SINGLE PHASE CONNECTION FOR EQUIPMENT. COORDINATE RECEPTACLE TYPE WITH EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN.
4. PROVIDE 208V THREE PHASE CONNECTION FOR EQUIPMENT. COORDINATE RECEPTACLE TYPE WITH EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN.
5. PROVIDE 120V CONNECTION FOR GAS SOLENOID VALVE ON SHUNT TRIP BREAKER. INTERLOCK WITH EXHAUST HOOD FIRE SUPPRESSION.

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MOORE PUBLIC SCHOOLS

CHILD CARE FACILITY
201 N. EASTERN AVE.

sheet no:

E203

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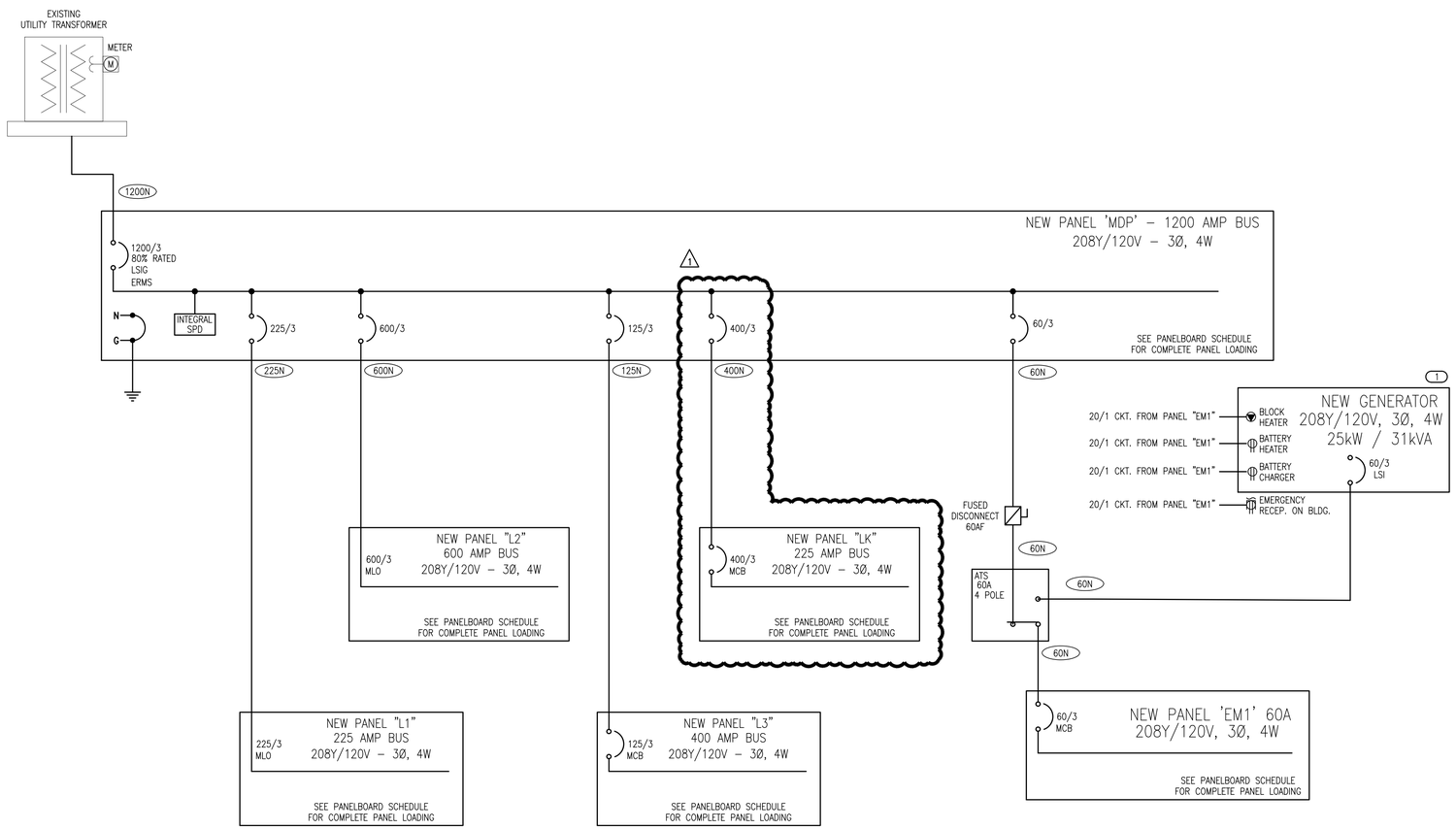

1 ONE-LINE DIAGRAM
NO SCALE

FEEDER SCHEDULE

AMPS	CONDUIT SIZE 4W	CONDUIT SIZE 3W	PHASE CONDUCTORS	EQUIPMENT GROUND CONDUCTOR
20	3/4"	3/4"	#12	#12
25	3/4"	3/4"	#10	#10
30	3/4"	3/4"	#10	#10
35	1"	3/4"	#8	#10
40	1"	3/4"	#8	#10
45	1"	1"	#6	#10
50	1"	1"	#6	#10
60	1 1/4"	1 1/4"	#4	#10
70	1 1/4"	1 1/4"	#4	#8
80	1 1/4"	1 1/4"	#3	#8
90	1 1/2"	1 1/4"	#2	#8
100	1 1/2"	1 1/4"	#2	#8
110	2"	1 1/2"	#1	#6
125	2"	1 1/2"	#1	#6
150	2"	1 1/2"	#1/0	#6
175	2"	2"	#2/0	#6
200	2"	2"	#3/0	#6
225	2 1/2"	2"	#4/0	#4
250	3"	2 1/2"	250 kcmil	#4
300	3"	3"	350 kcmil	#4
350	3 1/2"	3"	500 kcmil	#3
400	(2) 2"	(2) 2"	2 SETS OF #3/0	#3
450	(2) 2 1/2"	(2) 2"	2 SETS OF #4/0	#2
500	(2) 2 1/2"	(2) 2 1/2"	2 SETS OF 250 kcmil	#2
600	(2) 3"	(2) 3"	2 SETS OF 350 kcmil	#1
700	(2) 3 1/2"	(2) 3"	2 SETS OF 500 kcmil	#1/0
800	(3) 3"	(3) 2 1/2"	3 SETS OF 300 kcmil	#1/0
900	(3) 3 1/2"	(3) 3"	3 SETS OF 400 kcmil	#2/0
1000	(3) 3 1/2"	(3) 3"	3 SETS OF 500 kcmil	#2/0
1200	(4) 3"	(4) 3"	4 SETS OF 350 kcmil	#3/0
1600	(5) 3 1/2"	(5) 3"	5 SETS OF 500 kcmil	#4/0
1800	(6) 3 1/2"	(6) 3"	6 SETS OF 400 kcmil	250 kcmil
2000	(6) 3 1/2"	(6) 3"	6 SETS OF 500 kcmil	250 kcmil
2500	(7) 3 1/2"	(7) 3"	7 SETS OF 500 kcmil	350 kcmil

NOTES:

1. FEEDER SIZES ARE ON THE PLAN WHERE 60 REFERS TO A 60A FEEDER WITHOUT NEUTRAL AND 60N REFERS TO A 60A FEEDER WITH NEUTRAL.
2. SOME FEEDER SIZES DO NOT MATCH BREAKER SIZE DUE TO UP-SIZING OF THE FEEDER FOR VOLTAGE DROP.
3. CONDUITS ARE SIZED PER NEC TABLES FOR THHN/THWN AND MAY BE UPSIZED FOR EASE OF PULLING OR DOWNSIZED AS ALLOWED PER NEC FOR CONDUIT TYPE(S) BEING INSTALLED.
4. ALL CONDUCTORS 100A AND LESS ARE SIZED PER 60 DEGREE LUGS, EC MAY SIZE CONDUCTORS FOR ACTUAL RATING OF LUGS PER NEC.

GENERAL NOTES

1. AIC RATINGS ARE ESTIMATED BASED ON AVAILABLE DATA DURING DESIGN. CONTRACTOR TO VERIFY AVAILABLE FAULT CURRENT WITH UTILITY.

KEYED NOTES

(1) GENERATOR SHALL BE DUAL FUEL – NATURAL GAS AND PROPANE. GENERATOR SHALL HAVE FUEL TYPE AUTOMATIC SWITCHOVER CAPABILITY. BASIS OF DESIGN – KOHLER MODEL 25CCL 25/31 KW/KVA.

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CHILD CARE FACILITY
201 N. EASTERN AVE.

sheet no:
E401

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Panel L2

ROOM
MOUNTING SURFACE
FED FROM MDP
NOTE

VOLTS 208Y/120V 3P 4W
BUS AMPS 600
NEUTRAL 100%

AIC 65,000
MAIN BKR MLO
LUGS STANDARD

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	25/3	5.48	RTU-1	a	2	35/3	7.21	RTU-9
3	|			b	4	|		
5	|			c	6	|		
7	40/3	7.49	RTU-2	a	8	40/3	7.49	RTU-10
9	|			b	10	|		
11	|			c	12	|		
13	25/3	5.48	RTU-3	a	14	50/3	13.3	RTU-11
15	|			b	16	|		
17	|			c	18	|		
19	40/3	7.49	RTU-4	a	20	35/3	7.21	RTU-12
21	|			b	22	|		
23	|			c	24	|		
25	50/3	13.3	RTU-5	a	26	50/3	13.3	RTU-13
27	|			b	28	|		
29	|			c	30	|		
31	25/3	5.48	RTU-6	a	32	25/3	7.21	RTU-14
33	|			b	34	|		
35	|			c	36	|		
37	50/3	13.3	RTU-7	a	38	25/3	5.48	RTU-15
39	|			b	40	|		
41	|			c	42	|		
43	50/3	13.8	RTU-8	a	44	25/3	5.48	RTU-16
45	|			b	46	|		
47	|			c	48	|		
49	20/1	0	SPACE	a	50	20/1	0	SPACE
51	20/1	0	SPACE	b	52	20/1	0	SPACE
53	20/1	0	SPACE	c	54	20/1	0	SPACE
55	20/1	0	SPACE	a	56	20/1	0	SPACE
57	20/1	0	SPACE	b	58	20/1	0	SPACE
59	20/1	0	SPACE	c	60	20/1	0	SPACE

	CONN KVA	CALC KVA			CALC KVA
LARGEST MOTOR	13.8	3.46	(25%)	TOTAL LOAD	142
MOTORS	138	138	(100%)	BALANCED 3-PHASE LOAD	394 A
				PHASE A	100%
				PHASE B	100%
				PHASE C	100%

Panel EM1

ROOM
MOUNTING SURFACE
FED FROM ATS
NOTE

VOLTS 208Y/120V 3P 4W
BUS AMPS 60
NEUTRAL 100%

AIC 65,000
MAIN BKR 60
LUGS STANDARD

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/1	0.432	LIGHTING	a	2	15/1	1.18	SF-1
3	20/1	0.441	LIGHTING	b	4	15/1	0.696	SF-2
5	20/1	1	LIGHTING	c	6	15/1	0.696	SF-3
7	20/1	0.981	LIGHTING	a	8	20/1	0.5	BLOCK HEATER
9	20/1	0.55	LIGHTING	b	10	20/1	0.5	BATTERY HEATER
11	20/1	0.647	LIGHTING	c	12	20/1	0.5	BATTERY CHARGER
13	20/1	0.572	LIGHTING	a	14	20/1	0.18	RECEPTACLE
15	20/1	0.477	LIGHTING	b	16	20/1	0	SPACE
17	20/1	0	SPACE	c	18	20/1	0	SPACE
19	20/1	0	SPACE	a	20	20/1	0	SPACE
21	20/1	0	SPACE	b	22	20/1	0	SPACE
23	20/1	0	SPACE	c	24	20/1	0	SPACE
25	20/1	0	SPACE	a	26	20/1	0	SPACE
27	20/1	0	SPACE	b	28	20/1	0	SPACE
29	20/1	0	SPACE	c	30	20/1	0	SPACE

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LIGHTING	5.1	6.38	(125%)	MOTORS	2.57	2.57	(100%)
LARGEST MOTOR	1.18	0.294	(25%)	RECEPTACLES	1.68	1.68	(50%>10)
				TOTAL LOAD		10.9	
				BALANCED 3-PHASE LOAD		30.3 A	
				PHASE A		123%	
				PHASE B		85.5%	
				PHASE C		91.3%	

Panel L1

ROOM
MOUNTING SURFACE
FED FROM MDP
NOTE

VOLTS 208Y/120V 3P 4W
BUS AMPS 225
NEUTRAL 100%

AIC 65,000
MAIN BKR MLO
LUGS STANDARD

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/1	0.72	ROOFTOP RECEPTACLE	a	2	20/1	1.28	LIGHTING
3	20/1	0.36	RM 431 RECEPTACLE, RM 433 RECEPTACLE	b	4	20/1	0.793	LIGHTING
5	20/1	0.36	I.T. RECEPTACLE	c	6	20/1	0.706	LIGHTING
7	20/1	0.36	I.T. RECEPTACLE	a	8	20/1	0.48	LIGHTING
9	20/1	0.36	I.T. RECEPTACLE	b	10	20/1	0.636	LIGHTING
11	20/1	0.36	I.T. RECEPTACLE	c	12	20/1	1.06	LIGHTING
13	20/1	0.54	RM 434 RECEPTACLE	a	14	20/1	0.528	CP-3
15	20/1	0.54	RM 434 RECEPTACLE	b	16	20/1	0.1	WH-3
17	20/1	0.54	RM 430 RECEPTACLE	c	18	20/1	0.1	WH-4
19	20/1	0.36	RM 430 RECEPTACLE	a	20	20/1	0.1	WH-1
21	20/1	0.9	RM 429 RECEPTACLE, SMARTBOARD	b	22	20/1	0.1	WH-2
1 23	20/1	0	SPACE	c	24	20/1	0.1	WH-5
25	20/1	0.72	RM 1E RECEPTACLE, RM 5 RECEPTACLE	a	26	20/1	0.528	CP-2
27	20/1	0.93	CORRIDOR 428 RECEPTACLE, CORRIDOR 435 RECEPTACLE, RM 435 RECEPTACLE, TRAP PRIMER	b	28	15/1	0.696	EF-1
29	20/1	0.54	RM 5 RECEPTACLE	c	30	30/2	4.5	EWH-1
31	20/1	0.72	RM 1D RECEPTACLE, RM 4 RECEPTACLE	a	32	|		
33	20/1	0.54	RM 4 RECEPTACLE	b	34	15/1	0.696	EF-5
35	20/1	0.54	RM 3 RECEPTACLE	c	36	15/1	0.696	EF-6
37	20/1	0.72	RM 1C RECEPTACLE, RM 3 RECEPTACLE	a	38	15/1	0.696	EF-2
39	20/1	0.72	RM 1B RECEPTACLE, RM 2 RECEPTACLE	b	40	20/1	0.528	CP-1
41	20/1	0.54	RM 2 RECEPTACLE	c	42	20/2	2	EFH-1
43	20/1	0.54	RM 103 RECEPTACLE	a	44	|		
45	20/1	0.72	RM 101C RECEPTACLE, RM 103 RECEPTACLE	b	46	20/2	2	EFH-4
47	20/1	0.72	RM 101B RECEPTACLE, RM 102 RECEPTACLE	c	48	|		
49	20/1	0.54	RM 102 RECEPTACLE	a	50	15/1	0.696	EF-7
51	20/1	0.72	RM 101A RECEPTACLE, RM 101 RECEPTACLE	b	52	20/1	0.9	RM 301A RECEPTACLE, RM 301 RECEPTACLE, RM 303 RECEPTACLE
53	20/1	0.54	RM 101 RECEPTACLE	c	54	20/1	0.72	RM 301 RECEPTACLE, SMARTBOARD
55	20/1	0.72	RM 101D RECEPTACLE, RM 104 RECEPTACLE	a	56	20/1	0.72	RM 422 RECEPTACLE
57	20/1	0.54	RM 104 RECEPTACLE	b	58	20/1	0.54	RM 423 RECEPTACLE, RM 424 RECEPTACLE, RM 425 RECEPTACLE
59	20/1	0.72	RM 101E RECEPTACLE, RM 105 RECEPTACLE	c	60	20/1	0.72	RM 205 RECEPTACLE
61	20/1	0.9	CORRIDOR 436 RECEPTACLE, RM 105F RECEPTACLE, RM 105 RECEPTACLE	a	62	20/1	0.72	RM 201E RECEPTACLE, RM 205 RECEPTACLE
63	20/1	0.72	RM 201C RECEPTACLE, RM 203 RECEPTACLE	b	64	20/1	0.73	RM 201D RECEPTACLE, RM 204 RECEPTACLE, TRAP PRIMER
65	20/1	0.54	EXTERIOR RECEPTACLE	c	66	20/1	0.72	RM 204 RECEPTACLE
67	20/1	1.1	CORRIDOR 419 RECEPTACLE, CORRIDOR 420 RECEPTACLE, CORRIDOR 428 RECEPTACLE, RM 421 RECEPTACLE, TRAP PRIMER	a	68	20/1	0.72	RM 202 RECEPTACLE
69	20/1	0.36	TELECOM EQ	b	70	20/1	0.72	RM 201B RECEPTACLE, RM 202 RECEPTACLE
71	20/1	0	SPACE	c	72	20/1	0.72	RM 203 RECEPTACLE
73	20/1	0	SPACE	a	74	20/1	0.35	DRYER
75	20/1	0	SPACE	b	76	20/1	0.84	WASHER
77	20/1	0	SPACE	c	78	20/1	0.18	FACP
79	20/1	0	SPACE	a	80	20/1	0	SPACE
81	20/1	0	SPACE	b	82	20/1	0	SPACE
83	20/1	0	SPACE	c	84	20/1	0	SPACE

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LIGHTING	4.96	6.2	(125%)	MOTORS	5.56	5.56	(100%)
LARGEST MOTOR	0.696	0.174	(25%)	RECEPTACLES	30	20	(50%>10)
				HEATING	8.5	8.5	(100%)
				TOTAL LOAD		40.5	
				BALANCED 3-PHASE LOAD		112 A	
				PHASE A		110%	
				PHASE B		95.7%	
				PHASE C		94%	

Panel MDP

ROOM
MOUNTING SURFACE
FED FROM UTILITY
NOTE PROVIDE INTEGRAL SPD

VOLTS 208Y/120V 3P 4W
BUS AMPS 1200
NEUTRAL 100%

AIC 65,000
MAIN BKR 1200
LUGS STANDARD

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	225/3	49.1	PANEL L1	a	2	600/3	138	PANEL L2
3	|			b	4	|		
5	|			c	6	|		
7	125/3	35	PANEL L3	a	8	400/3	93.3	PANEL LK
9	|			b	10	|		
11	|			c	12	|		
13	20/1	0	SPACE	a	14	60/3	9.35	TRANSFER SWITCH ATS
15	20/1	0	SPACE	b	16	|		
17	20/1	0	SPACE	c	18	|		
19	20/1	0	SPACE	a	20	20/1	0	SPACE
21	20/1	0	SPACE	b	22	20/1	0	SPACE
23	20/1	0	SPACE	c	24	20/1	0	SPACE
25	20/1	0	SPACE	a	26	20/1	0	SPACE
27	20/1	0	SPACE	b	28	20/1	0	SPACE
29	20/1	0	SPACE	c	30	20/1	0	SPACE

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LIGHTING	15.4	19.2	(125%)	MOTORS	236	236	(100%)
LARGEST MOTOR	18	4.5	(25%)	RECEPTACLES	58.7	34.4	(50%>10)
				HEATING	15.3	15.3	(100%)
				TOTAL LOAD		309	
				BALANCED 3-PHASE LOAD		858 A	
				PHASE A		104%	
				PHASE B		100%	
				PHASE C		95.6%	

Panel L3

ROOM
MOUNTING SURFACE
FED FROM MDP
NOTE

VOLTS 208Y/120V 3P 4W
BUS AMPS 125
NEUTRAL 100%

AIC 65,000
MAIN BKR 125
LUGS STANDARD

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/1	0.18	RM 410 RECEPTACLE	a	2	20/1	0.73	LIGHTING
3	20/1	0.18	RM 410 RECEPTACLE	b	4	20/1	0.619	LIGHTING
5	20/1	0.18	RM 410 RECEPTACLE	c	6	20/1	0.838	LIGHTING
7	20/1	0.72	RM 410 RECEPTACLE	a	8	20/1	0.931	LIGHTING
9	20/1	0.72	RM 409 RECEPTACLE	b	10	20/1	0.99	LIGHTING
11	20/1	0.72	RM 406 RECEPTACLE	c	12	20/1	0.72	ROOFTOP RECEPTACLE
13	20/1	0.72	RM 405 RECEPTACLE	a	14	20/1	0.37	WATER COOLER RECEPTACLE
15	20/1	0.72	RM 404 RECEPTACLE	b	16	20/1	0.54	RM 1 RECEPTACLE
17	20/1	1.2	COPY MACHINE	c	18	20/1	1.09	CORRIDOR 412 RECEPTACLE, CORRIDOR 416 RECEPTACLE, CORRIDOR 435 RECEPTACLE, RM 411 RECEPTACLE, TRAP PRIMER
19	20/1	0.36	RM 403 RECEPTACLE	a	20	20/1	0.72	RM 1A RECEPTACLE, RM 1 RECEPTACLE
21	20/1	0.36	RM 402 RECEPTACLE	b	22	20/1	0.55	RM 436A RECEPTACLE, RM 436 RECEPTACLE, TRAP PRIMER
23	20/1	0.36	RM 402 RECEPTACLE	c	24	20/1	0.36	RM 436 RECEPTACLE
25	20/1	0.54	RM 402 RECEPTACLE	a	26	20/1	0.9	RM 105G RECEPTACLE, RM 201 RECEPTACLE
27	20/1	0.72	RM 401 RECEPTACLE	b	28	20/1	0.54	RM 201A RECEPTACLE, RM 201 RECEPTACLE
29	20/1	0.72	RM 305 RECEPTACLE, SMARTBOARD	c	30	20/1	0.9	RM 301B RECEPTACLE, RM 302 RECEPTACLE
31	20/1	0.72	RM 301E RECEPTACLE, RM 305 RECEPTACLE	a	32	20/1	0.72	RM 302 RECEPTACLE, SMARTBOARD
33	20/1	0.9	RM 301D RECEPTACLE, RM 304 RECEPTACLE, SMARTBOARD	b	34	20/1	0.72	RM 417A RECEPTACLE, RM 417B RECEPTACLE, RM 417C RECEPTACLE, RM 417 RECEPTACLE
35	20/1	0.72	RM 304 RECEPTACLE	c	36	20/1	0.72	RM 417 RECEPTACLE
37	20/1	0.72	RM 301C RECEPTACLE, RM 303 RECEPTACLE	a	38	20/1	0.36	RM 417 RECEPTACLE
39	20/1	0.9	RM 303 RECEPTACLE, SMARTBOARD	b	40	15/1	0.696	EF-4
41	20/1	0.54	RM 413 RECEPTACLE, RM 414 RECEPTACLE, RM 415 RECEPTACLE	c	42	15/1	0.696	EF-3
43	20/1	0.54	EXTERIOR RECEPTACLE, RECEPTACLE	a	44	20/2	2	EFH-3
45	20/1	1.09	CORRIDOR 412 RECEPTACLE, CORRIDOR 419 RECEPTACLE, RM 418 RECEPTACLE, TRAP PRIMER	b	46	|		
47	20/1	0.54	CORRIDOR 407 RECEPTACLE, CORRIDOR 408 RECEPTACLE	c	48	20/2	2	EFH-2
49	20/1	0.48	LIGHTING	a	50	|		
51	20/1	0	SPACE	b	52	15/1	0.696	EF-8
53	20/1	0	SPACE	c	54	20/1	0	SPACE
55	20/1	0	SPACE	a	56	20/1	0	SPACE
57	20/1	0	SPACE	b	58	20/1	0	SPACE
59	20/1	0	SPACE	c	60	20/1	0	SPACE

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LIGHTING	4.59	5.74	(125%)	MOTORS	2.09	2.09	(100%)
LARGEST MOTOR	0.696	0.174	(25%)	RECEPTACLES	24.3	17.1	(50%>10)
				HEATING	4	4	(100%)
				TOTAL LOAD		29.1	
				BALANCED 3-PHASE LOAD		80.9 A	
				PHASE A		100%	
				PHASE B		103%	
				PHASE C		97.1%	

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KFC ENGINEERING
STRUCTURAL

SALAS O'BRIEN
MECHANICAL / ELECTRICAL

DWG
drawn by
TVO
checked by
OCTOBER 2024
date

revisions
1 11/22/2024 AD 02

MOORE PUBLIC SCHOOLS

CHILD CARE FACILITY
201 N. EASTERN AVE.

sheet no:

E601

Salas O'Brien
2900 S. Telephone Road, Suite 120
Moore, OK 73160
Salas O'Brien Registration: CA# 7058
Expiration Date : 6/30/2025
Salas O'Brien Project Number: 2450-70304-00

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MECHANICAL EQUIPMENT SCHEDULE

CALLOUT	DESCRIPTION	VOLTS	HP	KVA	MCA	MOCP	CIRCUIT	WIRE CALLOUT	DISCONNECT	DISC PROV BY	DISC INST BY
CP-1	CIRCULATION PUMP	120V 1P 2W	1/6 HP	0.53			L1-40	3/4"C,1#12,#12N,#12G	TOGGLE SWITCH	EC	EC
CP-2	CIRCULATION PUMP	120V 1P 2W	1/6 HP	0.53			L1-26	3/4"C,1#12,#12N,#12G	TOGGLE SWITCH	EC	EC
CP-3	CIRCULATION PUMP	120V 1P 2W	1/6 HP	0.53			L1-14	3/4"C,1#12,#12N,#12G	TOGGLE SWITCH	EC	EC
EF-1	EXHAUST FAN	120V 1P 2W	1/4 HP	0.7	4	15	L1-28	3/4"C,1#10,#10N,#10G	TOGGLE SWITCH	EC	EC
EF-2	EXHAUST FAN	120V 1P 2W	1/4 HP	0.7	4	15	L1-38	3/4"C,1#10,#10N,#10G	TOGGLE SWITCH	EC	EC
EF-3	EXHAUST FAN	120V 1P 2W	1/4 HP	0.7	4	15	L3-42	3/4"C,1#12,#12N,#12G	TOGGLE SWITCH	EC	EC
EF-4	EXHAUST FAN	120V 1P 2W	1/4 HP	0.7	4	15	L3-40	3/4"C,1#12,#12N,#12G	TOGGLE SWITCH	EC	EC
EF-5	EXHAUST FAN	120V 1P 2W	1/4 HP	0.7	4	15	L1-34	3/4"C,1#10,#10N,#10G	TOGGLE SWITCH	EC	EC
EF-6	EXHAUST FAN	120V 1P 2W	1/4 HP	0.7	4	15	L1-36	3/4"C,1#10,#10N,#10G	TOGGLE SWITCH	EC	EC
EF-7	EXHAUST FAN	120V 1P 2W	1/4 HP	0.7	4	15	L1-50	3/4"C,1#10,#10N,#10G	TOGGLE SWITCH	EC	EC
EF-8	EXHAUST FAN	120V 1P 2W	1/4 HP	0.7	4	15	L3-52	3/4"C,1#10,#10N,#10G	TOGGLE SWITCH	EC	EC
EFH-1	ELECTRIC FAN FORCED HEATER	208V 2P 2W		2			L1-42,44	3/4"C,2#10,#10G,#10IG	TOGGLE SWITCH	MFR	EC
EFH-2	ELECTRIC FAN FORCED HEATER	208V 2P 2W		2			L3-48,50	3/4"C,2#10,#10G,#10IG	TOGGLE SWITCH	MFR	EC
EFH-3	ELECTRIC FAN FORCED HEATER	208V 2P 2W		2			L3-44,46	3/4"C,2#10,#10G,#10IG	TOGGLE SWITCH	MFR	EC
EFH-4	ELECTRIC FAN FORCED HEATER	208V 2P 2W		2			L1-46,48	3/4"C,2#10,#10G,#10IG	TOGGLE SWITCH	MFR	EC
EWH-1	ELECTRIC WATER HEATER	208V 2P 2W		4.5			L1-30,32	3/4"C,2#10,#10G	NON-FUSED	EC	EC
RTU-1	ROOF TOP UNIT	208V 3P 3W		5.48	19	25	L2-1,3,5	3/4"C,3#10,#10G	NON-FUSED	MFR	EC
RTU-2	ROOF TOP UNIT	208V 3P 3W		7.49	26	40	L2-7,9,11	3/4"C,3#10,#10G	NON-FUSED	MFR	EC
RTU-3	ROOF TOP UNIT	208V 3P 3W		5.48	19	25	L2-13,15,17	3/4"C,3#8,#10G	NON-FUSED	MFR	EC
RTU-4	ROOF TOP UNIT	208V 3P 3W		7.49	26	40	L2-19,21,23	3/4"C,3#10,#10G	NON-FUSED	MFR	EC
RTU-5	ROOF TOP UNIT	208V 3P 3W		13.26	46	50	L2-25,27,29	3/4"C,3#6,#10G	NON-FUSED	MFR	EC
RTU-6	ROOF TOP UNIT	208V 3P 3W		5.48	19	25	L2-31,33,35	3/4"C,3#8,#10G	NON-FUSED	MFR	EC
RTU-7	ROOF TOP UNIT	208V 3P 3W		13.26	46	50	L2-37,39,41	1"C,3#4,#10G	NON-FUSED	MFR	EC
RTU-8	ROOF TOP UNIT	208V 3P 3W		13.83	48	50	L2-43,45,47	1"C,3#4,#10G	NON-FUSED	MFR	EC
RTU-9	ROOF TOP UNIT	208V 3P 3W		7.21	25	35	L2-2,4,6	3/4"C,3#10,#10G	NON-FUSED	MFR	EC
RTU-10	ROOF TOP UNIT	208V 3P 3W		7.49	26	40	L2-8,10,12	3/4"C,3#10,#10G	NON-FUSED	MFR	EC
RTU-11	ROOF TOP UNIT	208V 3P 3W		13.26	46	50	L2-14,16,18	3/4"C,3#6,#10G	NON-FUSED	MFR	EC
RTU-12	ROOF TOP UNIT	208V 3P 3W		7.21	25	35	L2-20,22,24	3/4"C,3#10,#10G	NON-FUSED	MFR	EC
RTU-13	ROOF TOP UNIT	208V 3P 3W		13.26	46	50	L2-26,28,30	1"C,3#4,#10G	NON-FUSED	MFR	EC
RTU-14	ROOF TOP UNIT	208V 3P 3W		5.48	19	25	L2-32,34,36	3/4"C,3#10,#10G	NON-FUSED	MFR	EC
RTU-15	ROOF TOP UNIT	208V 3P 3W		5.48	19	25	L2-38,40,42	3/4"C,3#10,#10G	NON-FUSED	MFR	EC
RTU-16	ROOF TOP UNIT	208V 3P 3W		5.48	19	25	L2-44,46,48	3/4"C,3#10,#10G	NON-FUSED	MFR	EC
SF-1	EXHAUST FAN	120V 1P 2W	1/2 HP	1.18	2	15	EM1-2	3/4"C,1#12,#12N,#12G	TOGGLE SWITCH	EC	EC
SF-2	EXHAUST FAN	120V 1P 2W	1/4 HP	0.7	2	15	EM1-4	3/4"C,1#10,#10N,#10G	TOGGLE SWITCH	EC	EC
SF-3	EXHAUST FAN	120V 1P 2W	1/4 HP	0.7	2	15	EM1-6	3/4"C,1#12,#12N,#12G	TOGGLE SWITCH	EC	EC
WH-1	WATER HEATER	120V 1P 2W	F HP	0.1			L1-20	3/4"C,1#12,#12N,#12G	DUPLEX RECEPTACLE	EC	EC
WH-2	WATER HEATER	120V 1P 2W	F HP	0.1			L1-22	3/4"C,1#12,#12N,#12G	DUPLEX RECEPTACLE	EC	EC
WH-3	WATER HEATER	120V 1P 2W	F HP	0.1			L1-16	3/4"C,1#12,#12N,#12G	DUPLEX RECEPTACLE	EC	EC
WH-4	WATER HEATER	120V 1P 2W	F HP	0.1			L1-18	3/4"C,1#12,#12N,#12G	DUPLEX RECEPTACLE	EC	EC
WH-5	WATER HEATER	120V 1P 2W	F HP	0.1			L1-24	3/4"C,1#12,#12N,#12G	DUPLEX RECEPTACLE	EC	EC

KITCHEN EQUIPMENT SCHEDULE

CALLOUT	DESCRIPTION	VOLTS	HP	KVA	MCA	MOCP	CIRCUIT	WIRE CALLOUT	DISCONNECT	DISC PROV BY	DISC INST BY
AC	AIR CURTAIN	120V 1P 2W	1 HP	1.92					TOGGLE SWITCH	EC	EC
CLR	COOLER	120V 1P 2W		0.3			LK-15	3/4"C,1#12,#12N,#12G	JUNCTION BOX	EC	EC
CO-1	CONVECTION OVEN	120V 1P 2W	1/2 HP	1.18			LK-30	3/4"C,1#12,#12N,#12G	DUPLEX RECEPTACLE	EC	EC
CO-2	CONVECTION OVEN	120V 1P 2W	1/2 HP	1.18			LK-26	3/4"C,1#12,#12N,#12G	DUPLEX RECEPTACLE	EC	EC
CS-1	CONVECTION STEAMER	208V 2P 2W		6			LK-8,10	3/4"C,2#8,#10G	NON-FUSED	EC	EC
CS-2	CONVECTION STEAMER	208V 2P 2W		8			LK-2,4	3/4"C,2#6,#10G	NON-FUSED	EC	EC
DOAS-1	ROOF TOP UNIT	208V 3P 3W		16.43	57.1	60	LK-71,73,75	1"C,3#4,#10G	NON-FUSED	MFR	EC
DTK	DRAIN WATER TEMPERING KIT	120V 1P 2W		0.6			LK-57	3/4"C,1#12,#12N,#12G	JUNCTION BOX	EC	EC
DW	DISHWASHER	208V 3P 3W		18			LK-51,53,55	1"C,3#4,#8G	NON-FUSED	EC	EC
EK	ELECTRIC KETTLE	208V 3P 3W		10.8			LK-14,16,18	3/4"C,3#8,#10G	NON-FUSED	EC	EC
EVAP	EVAPORATOR	208V 2P 2W		0.21			LK-17,19	3/4"C,2#12,#12G	JUNCTION BOX	EC	EC
EVAP	EVAPORATOR	208V 2P 2W		0.21			LK-21,23	3/4"C,2#12,#12G	JUNCTION BOX	EC	EC
FRZ	FREEZER	120V 1P 2W		0.3			LK-15	3/4"C,1#12,#12N,#12G	JUNCTION BOX	EC	EC
FSS	FIRE SUPPRESSION SYSTEM	120V 1P 2W		0.12			LK-38	3/4"C,1#12,#12N,#12G	JUNCTION BOX	EC	EC
HC	HOT CABINET	120V 1P 2W		1.92			LK-34	3/4"C,1#12,#12N,#12G	DUPLEX RECEPTACLE	EC	EC
HFW	HOT FOOD WELL	208V 2P 2W		2.81			LK-39,41	3/4"C,2#12,#12G	NON-FUSED	EC	EC
HT	HEAT TAPE	120V 1P 2W		1.92			LK-25	3/4"C,1#12,#12N,#12G	JUNCTION BOX	EC	EC
IM	ICE MAKER	120V 1P 2W		1.62			LK-47	3/4"C,1#12,#12N,#12G	TOGGLE SWITCH	EC	EC
KEF-1	KITCHEN EXHAUST FAN	208V 3P 3W		2.63			LK-65,67,69	3/4"C,3#10,#10G	NON-FUSED	EC	EC
MC	MILK COOLER	120V 1P 2W		0.33			LK-35	3/4"C,1#12,#12N,#12G	DUPLEX RECEPTACLE	EC	EC
MW	MICROWAVE	120V 1P 2W		1.5			LK-29	3/4"C,1#12,#12N,#12G	DUPLEX RECEPTACLE	EC	EC
POS	POINT OF SALE SYSTEM	120V 1P 2W		0.12			LK-43	3/4"C,1#12,#12N,#12G	JUNCTION BOX	EC	EC
RFW	REFRIGERATED FOOD WELL	120V 1P 2W		0.84			LK-37	3/4"C,1#12,#12N,#12G	DUPLEX RECEPTACLE	EC	EC
RS-1	REFRIGERATION SYSTEM	208V 3P 3W		9.73	29	40	LK-59,61,63	3/4"C,3#10,#10G	NON-FUSED	EC	EC
SM	STAND MIXER	120V 1P 2W	1/2 HP	1.18			LK-31	3/4"C,1#12,#12N,#12G	DUPLEX RECEPTACLE	EC	EC
VCP	VENTILATOR CONTROL PANEL	120V 1P 2W		0.12			LK-45	3/4"C,1#12,#12N,#12G	JUNCTION BOX	EC	EC
VEN	VENTILATOR	120V 1P 2W		1.8			LK-42	3/4"C,1#12,#12N,#12G	TOGGLE SWITCH	EC	EC

Panel LK

ROOM
MOUNTING RECESSED
FED FROM MDP
NOTE [DOUBLE TUB]

VOLTS 208Y/120V 3P 4W
BUS AMPS 400
NEUTRAL 100%

AIC 65,000
MAIN BKR 400
LUGS STANDARD

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/1	0.752	LIGHTING	a	2	50/2	8	CS-2
3	20/1	0.36	RECEPTACLE	b	4	|		
5	20/1	0.36	RECEPTACLE	c	6	-/1	0	SHUNT TRIP
7	20/1	0.36	RECEPTACLE	a	8	40/2	6	CS-1
9	20/1	0.36	RECEPTACLE	b	10	|		
11	20/1	0.36	RECEPTACLE	c	12	-/1	0	SHUNT TRIP
13	20/1	0.54	RECEPTACLE	a	14	40/3	10.8	EK
15	20/1	0.6	CLR, FRZ	b	16	|		
17	20/2	0.208	EVAP	c	18	|		
19	|			a	20	-/1	0	SHUNT TRIP
21	20/2	0.208	EVAP	b	22	20/1	0.18	RECEPTACLE
23	|			c	24	-/1	0	SHUNT TRIP
25	20/1	1.92	HT	a	26	20/1	1.18	CO-2
27	20/1	0.01	TRAP PRIMER	b	28	-/1	0	SHUNT TRIP
29	20/1	1.5	MW	c	30	20/1	1.18	CO-1
31	20/1	1.18	SM	a	32	-/1	0	SHUNT TRIP
33	20/1	0.01	TRAP PRIMER	b	34	20/1	1.92	HC
35	20/1	0.325	MC	c	36	-/1	0	SHUNT TRIP
37	20/1	0.84	RFW	a	38	20/1	0.12	FSS
39	20/2	2.81	HFW	b	40	-/1	0	SHUNT TRIP
41	|			c	42	20/1	1.8	VEN
43	20/1	0.12	POS	a	44	-/1	0	SHUNT TRIP
45	20/1	0.12	VCP	b	46	20/1	0.18	GAS VALVE
47	20/1	1.62	IM	c	48	-/1	0	SHUNT TRIP
49	20/1	0.01	TRAP PRIMER	a	50	20/1	0	SPACE
51	70/3	18	DW	b	52	20/1	0	SPACE
53	|			c	54	20/1	0	SPACE
55	|			a	56	20/1	0	SPACE
57	20/1	0.6	DTK	b	58	20/1	0	SPACE
59	40/3	9.73	RS-1	c	60	20/1	0	SPACE
61	|			a	62	20/1	0	SPACE
63	|			b	64	20/1	0	SPACE
65	20/3	2.63	KEF-1	c	66	20/1	0	SPACE
67	|			a	68	20/1	0	SPACE
69	|			b	70	20/1	0	SPACE
71	60/3	16.4	DOAS-1	c	72	20/1	0	SPACE
73	|			a	74	20/1	0	SPACE
75	|			b	76	20/1	0	SPACE
77	20/1	0	SPACE	c	78	20/1	0	SPACE
79	20/1	0	SPACE	a	80	20/1	0	SPACE
81	20/1	0	SPACE	b	82	20/1	0	SPACE
83	20/1	0	SPACE	c	84	20/1	0	SPACE

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LIGHTING	0.752	0.94	(125%)	MOTORS	87	87	(100%)
LARGEST MOTOR	18	4.5	(25%)	RECEPTACLES	2.73	2.73	(50%>10)
				HEATING	2.81	2.81	(100%)
				TOTAL LOAD		98	
				BALANCED 3-PHASE LOAD		272 A	
				PHASE A		107%	
				PHASE B		103%	
				PHASE C		89.5%	

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KFC ENGINEERING
STRUCTURAL

SALAS O'BRIEN
MECHANICAL / ELECTRICAL

DWG
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TVO
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date

revisions
1 11/22/2024 AD 02

MOORE PUBLIC SCHOOLS

CHILD CARE FACILITY
201 N. EASTERN AVE.

sheet no:

E602

Salas O'Brien
2900 S. Telephone Road, Suite 120
Moore, OK 73160
Salas O'Brien Registration: CA# 7058
Expiration Date : 6/30/2025
Salas O'Brien Project Number: 2450-70304-00

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STRUCTURED CABLING LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
*#	WALL MOUNTED NETWORK OUTLET D#: NUMBER OF DATA DROPS IN OUTLET AP: WIRELESS ACCESS POINT	+18" AFF, UNLESS OTHERWISE NOTED	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
V#	COMMUNICATIONS OUTLET	FIELD COORDINATE	FIELD COORDINATE	
W	WALL MOUNTED NETWORK OUTLET	+44" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
B	WALL MOUNTED BOX FOR FUTURE USE.	+18" AFF UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
D#	FLOOR MOUNTED NETWORK OUTLET	N/A	COORDINATE WITH ELECTRICAL CONTRACTOR	FINISHED HARDWARE PROVIDED BY DIV 27
D#	CEILING MOUNTED NETWORK OUTLET D#': NETWORK OUTLET	ABOVE CEILING	CEILING BRACKET WITH BISCUIT BLOCK	
AP D#	CEILING MOUNTED NETWORK OUTLET FOR ACCESS POINT D#: NETWORK DROP QUANTITIY	ABOVE CEILING	CEILING BRACKET WITH BISCUIT BLOCK	

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. CONDUIT STUB UP AND SLEEVES SHALL HAVE A SOLID UNCUT PLASTIC PROTECTIVE BUSHING.
5. NO CONDUITS SHALL EXCEED FOR 40% MAXIMUM FILL RATIO. CONTRACTOR TO PROVIDE ADDITIONAL CONDUITS REQUIRED.

AUDIO/VIDEO LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
WMP	WALL MOUNTED PROJECTOR AUDIO/VISUAL OUTPUT OUTLET	REFERENCE FLOOR PLANS.	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	NOTE #5
CMP	CEILING MOUNTED PROJECTOR AUDIO/VISUAL OUTPUT OUTLET	CEILING MOUNTED	N/A	NOTE #5
AV-1	WALL MOUNTED AUDIO/VIDEO INPUT OUTLET	+18" AFF UNO	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	
FSD-1	WALL MOUNTED FLAT SCREEN DISPLAY AUDIO/VISUAL OUTPUT OUTLET	REFERENCE FLOOR PLAN	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5
FSD-2	WALL MOUNTED FLAT SCREEN DISPLAY AUDIO/VISUAL OUTPUT OUTLET ASSOCIATED WITH AV-1 INPUT OUTLET	REFERENCE FLOOR PLAN	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	NOTE #5
IVD	INTERACTIVE VIDEO DISPLAY AUDIO/VISUAL OUTPUT OUTLET	REFERENCE FLOOR PLAN	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	NOTE #5
CP	AV CONTROL PANEL	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
PS	LOCAL INSTRUCTIONAL SPACE PRESENTATION SPEAKER	CEILING	CONTRACTOR PROVIDED CEILING BOX	COORDINATE POWER WITH EC
	STREAMING CAMERA	CEILING UNO	N/A	NOTE #5

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

INTERCOM LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
ICS	INTERCOM COMMUNICATIONS SYSTEM HEAD END UNIT.	FLOOR MOUNTED	COORDINATE WITH EC	COORDINATE POWER WITH EC
S	CEILING MOUNT INTERCOM SPEAKER, LAY-IN CEILING	CEILING	CONTRACTOR PROVIDED	
S2	CEILING MOUNT INTERCOM SPEAKER, HARD CEILING.	CEILING	CONTRACTOR PROVIDED	
S3	WALL MOUNT INTERIOR INTERCOM SPEAKER	REFERENCE FLOOR PLANS	CONTRACTOR PROVIDED	
S4	WALL MOUNT EXTERIOR INTERCOM SPEAKER	+10' AFF UNO	CONTRACTOR PROVIDED	
S5	PENDANT MOUNT INTERCOM SPEAKER	REFERENCE FLOOR PLANS	CONTRACTOR PROVIDED	
S6	SURFACE MOUNT INTERCOM SPEAKER, MOUNT TO STRUCTURE	CEILING	CONTRACTOR PROVIDED	
S7	CEILING MOUNTED EXTERIOR INTERCOM SPEAKER.	CEILING	CONTRACTOR PROVIDED	
# IP	IP BASED SPEAKER. '#' TO BE REPLACED WITH S, S2, S3, S4 INDICATING THE SPECIFIC TYPE OF SPEAKER.	REFERENCE FLOOR PLANS	CONTRACTOR PROVIDED	NOTE #5
# IP AMP	SPEAKER CONNECTED TO IP MODULE AND AMPLIFIER. '#' TO BE REPLACED WITH S, S2, S3, S4 INDICATING THE SPECIFIC TYPE OF SPEAKER.	REFERENCE FLOOR PLANS	CONTRACTOR PROVIDED	
VC	WALL MOUNTED VOLUME CONTROL	+48" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
CB	INTERCOM CALL BUTTON	+48" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
C	SINGLE FACE CLOCK	90" AFF UNO.	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
C2	DOUBLE FACE CLOCK	90" AFF UNO.	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
RPS	REMOTE PROGRAM SOURCE	DESK TOP	COORDINATE WITH EC	NOTE #5
ACS	ADMINISTRATIVE CALL STATION.	DESK TOP	N/A	NOTE #5

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

ACCESS CONTROL LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
ACP	ACCESS CONTROL SYSTEM, CONTROL PANEL.	+60" AFF TO CENTER	AS REQUIRED	COORDINATE POWER. NOTE #4.
CR #*	ACCESS CONTROL PROXIMITY CARD READER. DEFAULT SYMBOL INDICATES WALL MOUNTED *M - INDICATES MULLION MOUNTED READER	+42" A.F.F.	1-G, 3/4" C	
CR	DOOR MOUNTED ACCESS CONTROL PROXIMITY CARD READER THAT IS INTEGRATED INTO THE DOOR HARDWARE.	+42" AFF	N/A	
DS #*	2-WAY AUDIO/VIDEO INTERCOM DOOR STATION. *DEFAULT INDICATES WALL MOUNTED *M - INDICATES MULLION MOUNTED DEVICE	+42" AFF	*W: 1-G, 3/4" C *M: 3/4"C	COORDINATE POWER. NOTE #4 & #5.
DS	DOOR MOUNTED, 2-WAY AUDIO/VIDEO INTERCOM DOOR STATION.	+42" AFF, FIELD COORDINATE		COORDINATE POWER. NOTE #4 & #5
MS	2-WAY AUDIO/VIDEO INTERCOM MASTER STATION.	DESK MOUNTED UNO		COORDINATE POWER. NOTE #4
DR	DOOR RELEASE BUTTON	COORDINATE WITH GC	1-G, 3/4" C	
DH	PIR MOTION REQUEST TO EXIT DEVICE, DOOR CONTACT AND ELECTRIC STRIKE.			ACCESS CONTROL ONLY DOOR SHALL BE SPST. DOOR WITH BOTH ACCESS CONTROL AND INTRUSION SHALL BE DPDT. ONLY 1 DOOR CONTACT PER DOOR IF DH AND DC SYMBOL ARE SHOWN

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK
5. AVIGILON PART # 3.0C-H4VI-RO1-IR.

VIDEO SURVEILLANCE LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
	WALL/CORNER MOUNT 4-SENSOR CAMERA	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5 AND 6
	CEILING MOUNTED 4-SENSOR CAMERA	CEILING		NOTE #5
	3-SENSOR CAMERA	CEILING UNO		NOTE #5 AND 6
	2-SENSOR CAMERA	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5
	1-SENSOR CAMERA	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
	SYMBOL ADDED TO CAMERA TO INDICATE WALL MOUNT.	+9' AFF UNO		NOTE #6
VRS	VIDEO RECORDING SERVER			
#MU	VIDEO SURVEILLANCE MAIN UNIT	ABOVE CEILING		NOTE #5

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK
6. EXTERIOR WALL MOUNT SPEAKERS SHALL BE MOUNTED +10'AFF.

INTRUSION LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
IDP	INTRUSION DETECTION SYSTEM CONTROL PANEL	+60" AFF	TWO(2) - 1"C TO CONTRACTOR PROVIDED BACK BOX	COORDINATE POWER WITH EC. NOTE #5
KP	INTRUSION DETECTION SYSTEM KEYPAD.	1. +60" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
MX #*	WALL MOUNTED MOTION DETECTOR *# = LR IF LONG RANGE	REFERENCE FLOOR PLAN	N/A	
GB	CEILING MOUNTED GLASS BREAK DETECTOR	CEILING	N/A	
DC	DOOR CONTACT	FLUSH MOUNTED IN DOOR FRAME	N/A	1. INTRUSION ONLY DOOR SHALL BE DPDT. DOOR WITH BOTH ACCESS CONTROL AND INTRUSION SHALL BE (1) DPDT FOR INTRUSION AND (1) SPST FOR ACCESS CONTROL. SPACE CONTACTS AT LEAST 2" APART.
ODC	OVERHEAD DOOR MOUNT MAGNETIC DOOR CONTACT.	SURFACE MOUNTED ON DOOR FRAME	N/A	
HU	DMP WIRELESS HOLDUP BUTTON	UNDER DESK UNO	N/A	
SS	SECURITY SIREN	+9' AFF	SINGLE GANG BACKBOX	

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. REFERENCE DIVISION 28 SPECIFICATION FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

FIRE ALARM

*PROJECT SCOPE INCLUDES REPLACING EXISTING FIRE ALARM SYSTEM IN ITS ENTIRETY WITH NEW VOICE EVACUATION FIRE ALARM SYSTEM. FIRE ALARM SYSTEM SHALL BE FULLY OPERATIONAL THROUGHOUT ALL PHASES OF CONSTRUCTION. DEMOLISH EXISTING SYSTEM ONCE NEW SYSTEM IS INSTALLED, TESTED, AND ACCEPTED BY THE AHJ.

LEGEND

SYMBOL	DESCRIPTION
FACP	FIRE ALARM CONTROL. PROVIDE AND INSTALL 1 CATEGORY CABLE TO CONNECT PANEL TO NETWORK.
FAA	FIRE ALARM ANNUNCIATOR PANEL
NAC	NOTIFICATION APPLIANCE

NOTES:

1. REFERENCE SHEET SPECIFICATIONS

2. A LICENSED FIRE ALARM PLANNING SUPERINTENDENT CERTIFIED TO A MINIMUM LEVEL 3, IN THE SUBFIELD OF FIRE ALARM SYSTEMS THROUGH THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET), SHALL PROVIDE PLANS AND CALCULATIONS FOR A MANUAL AND AUTOMATIC FIRE DETECTION AND ALARM SYSTEM TO COMPLY WITH THE BUILDING SPACE LAYOUT, BUILDING OCCUPANCY, CURRENT NFPA 72, LOCAL AND STATE CODE REQUIREMENTS, AND THE FIRE ALARM AND DETECTION SYSTEM SPECIFICATIONS.

SUBSCRIPTS AND ABBREVIATIONS

TEXT	DESCRIPTION
'WP'	DEVICE SHALL BE WEATHER PROOF AND RATED FOR EXTERIOR CONDITIONS
●	FIELD COORDINATE ELEVATION.
AFF	ABOVE FINISHED FLOOR
'UC'	DEVICE IS TO BE MOUNTED ON THE UNDERSIDE OF THE ELEVATED CANOPY.
'WM'	DEVICE IS TO BE WALL MOUNTED.
'WG'	WIRE GUARD TO BE PROVIDED AND INSTALLED TO PROTECT ASSOCIATED DEVICE.

SUBSCRIPTS LEGEND - EXISTING DEVICES

TEXT	DESCRIPTION
'E'	EXISTING TO REMAIN.
'D'	DEVICE IS EXISTING AND IS TO BE REMOVED. CONTRACTOR TO REMOVE THE DEVICE AND RETURN TO OWNER.
'R'	REMOVE EXISTING DEVICE AND RELOCATE TO A LOCATION INDICATED ON THE DRAWINGS.

NOTES TO CONTRACTOR

1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS.
2. SYSTEM INSTALLERS SHALL COORDINATE LOCATIONS AND CONNECTIONS WITH THE PROJECT'S ELECTRICAL CONTRACTOR.
3. CONTRACTOR TO PROVIDE PROPERLY GROUNDED LIGHTING PROTECTION ON ALL CABLING ENTERING AND EXITING THE BUILDING.

RESPONSIBILITY MATRIX

SCOPE ITEM	RESPONSIBILITY			NOTES
COMMUNICATIONS - DIVISION 27	OFOI	CFCI	OFCI	
CATEGORY 6 STRUCTURED CABLING SYSTEM		X		
BUILDING INTERCOM/PA, BELL, AND CLOCK SYSTEM		X		
NETWORK EQUIPMENT				
→ MDF/IDF NETWORK EQUIPMENT		X		
→ VOIP TELEPHONES		X		
→ WIRELESS ACCESS POINTS		X		
→ UNITERRUPTABLE POWER SUPPLIES (UPS)		X		
RACEWAY: CONDUIT, BACK BOXES, SLEEVES, ETC.		X		SEE NOTE 1.
ELECTRICAL POWER		X		SEE NOTE 1.
LIFE SAFETY AND SECURITY - DIVISION 28	OFOI	CFCI	OFCI	
ACCESS CONTROL SYSTEM(ACS)		X		
INTRUSION DETECTION SYSTEM		X		
VIDEO SURVEILLANCE SYSTEM (VSS)				
→ VSS SERVERS		X		
→ VSS CAMERAS		X		
→ VSS PROGRAMMING		X		
→ VSS CABLING		X		SEE NOTE 2.
FIRE ALARM SMOKE DETECTION WITH VOICE EVACUATION		X		SEE NOTE 1.
RACEWAY: CONDUIT, BACK BOXES, SLEEVES, ETC.		X		SEE NOTE 1.
ELECTRICAL POWER		X		SEE NOTE 1.

OFOI - OWNER FURNISHED AND OWNER INSTALLED
CFCI - CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED
OFCI - OWNER FURNISHED AND CONTRACTOR INSTALLED

REPONSIBILITY MATRIX NOTES:
1. BY DIVISION 26.
2. BY DIVISION 27.

1 TECHNOLOGY NOTES AND LEGENDS
N.T.S.

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date

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1 11/22/2024 AD 02

MOORE PUBLIC SCHOOLS

CHILD CARE FACILITY
201 N. EASTERN AVE.

sheet no:

T000

Salas O'Brien
2900 S. Telephone Road, Suite 120
Moore, OK 73160
Salas O'Brien Registration: CA# 7058
Expiration Date : 6/30/2025
Salas O'Brien Project Number: 2450-70304-00

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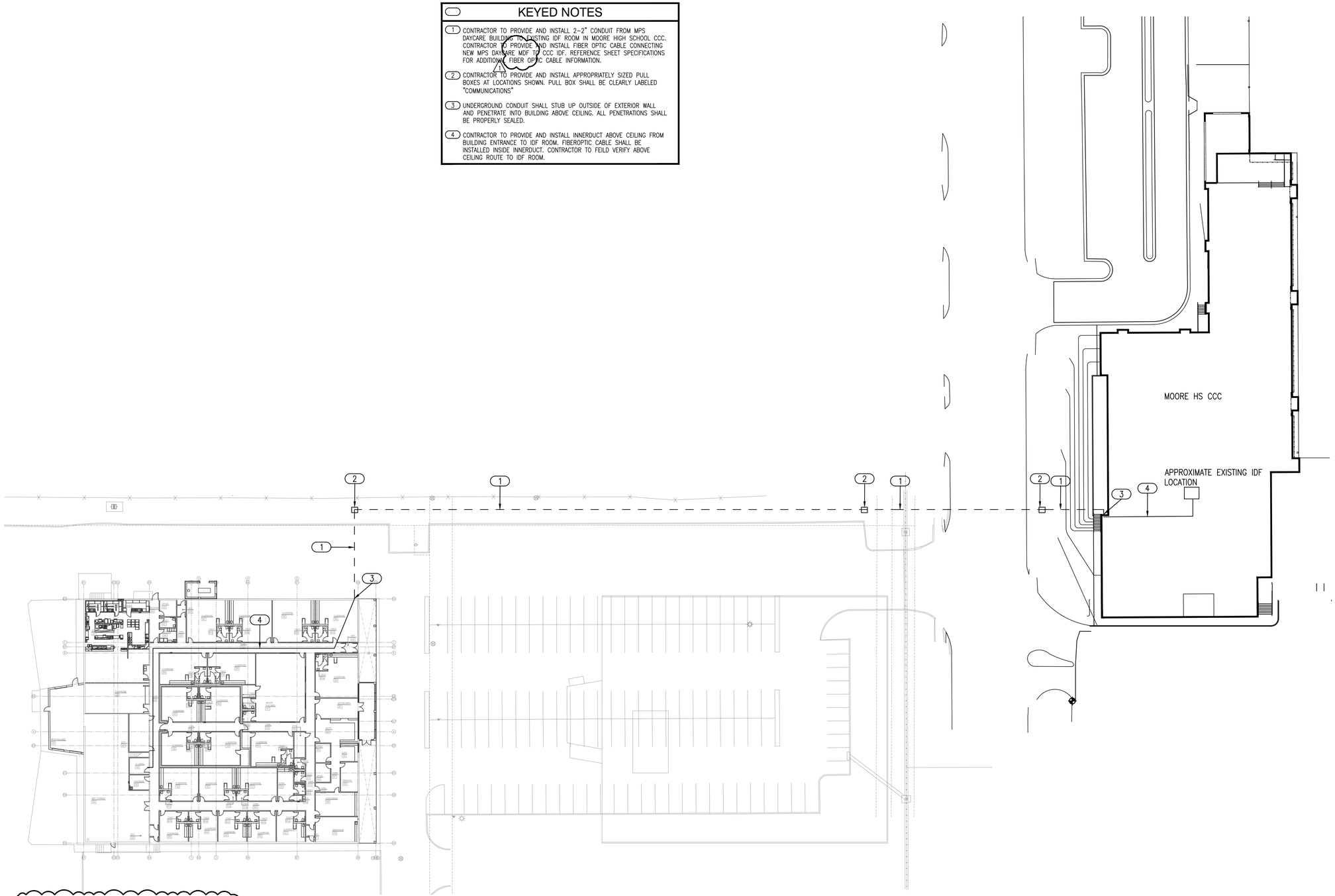
KEYED NOTES

1. CONTRACTOR TO PROVIDE AND INSTALL 2-2" CONDUIT FROM MPS DAYCARE BUILDING TO EXISTING IDF ROOM IN MOORE HIGH SCHOOL CCC. CONTRACTOR TO PROVIDE AND INSTALL FIBER OPTIC CABLE CONNECTING NEW MPS DAYCARE MDF TO CCC IDF. REFERENCE SHEET SPECIFICATIONS FOR ADDITIONAL FIBER OPTIC CABLE INFORMATION.
2. CONTRACTOR TO PROVIDE AND INSTALL APPROPRIATELY SIZED PULL BOXES AT LOCATIONS SHOWN. PULL BOX SHALL BE CLEARLY LABELED "COMMUNICATIONS"
3. UNDERGROUND CONDUIT SHALL STUB UP OUTSIDE OF EXTERIOR WALL AND PENETRATE INTO BUILDING ABOVE CEILING. ALL PENETRATIONS SHALL BE PROPERLY SEALED.
4. CONTRACTOR TO PROVIDE AND INSTALL INNERDUCT ABOVE CEILING FROM BUILDING ENTRANCE TO IDF ROOM. FIBEROPTIC CABLE SHALL BE INSTALLED INSIDE INNERDUCT. CONTRACTOR TO FEILD VERIFY ABOVE CEILING ROUTE TO IDF ROOM.



1 TECHNOLOGY SITE PLAN
SCALE: 1/32" = 1'-0"

NORTH

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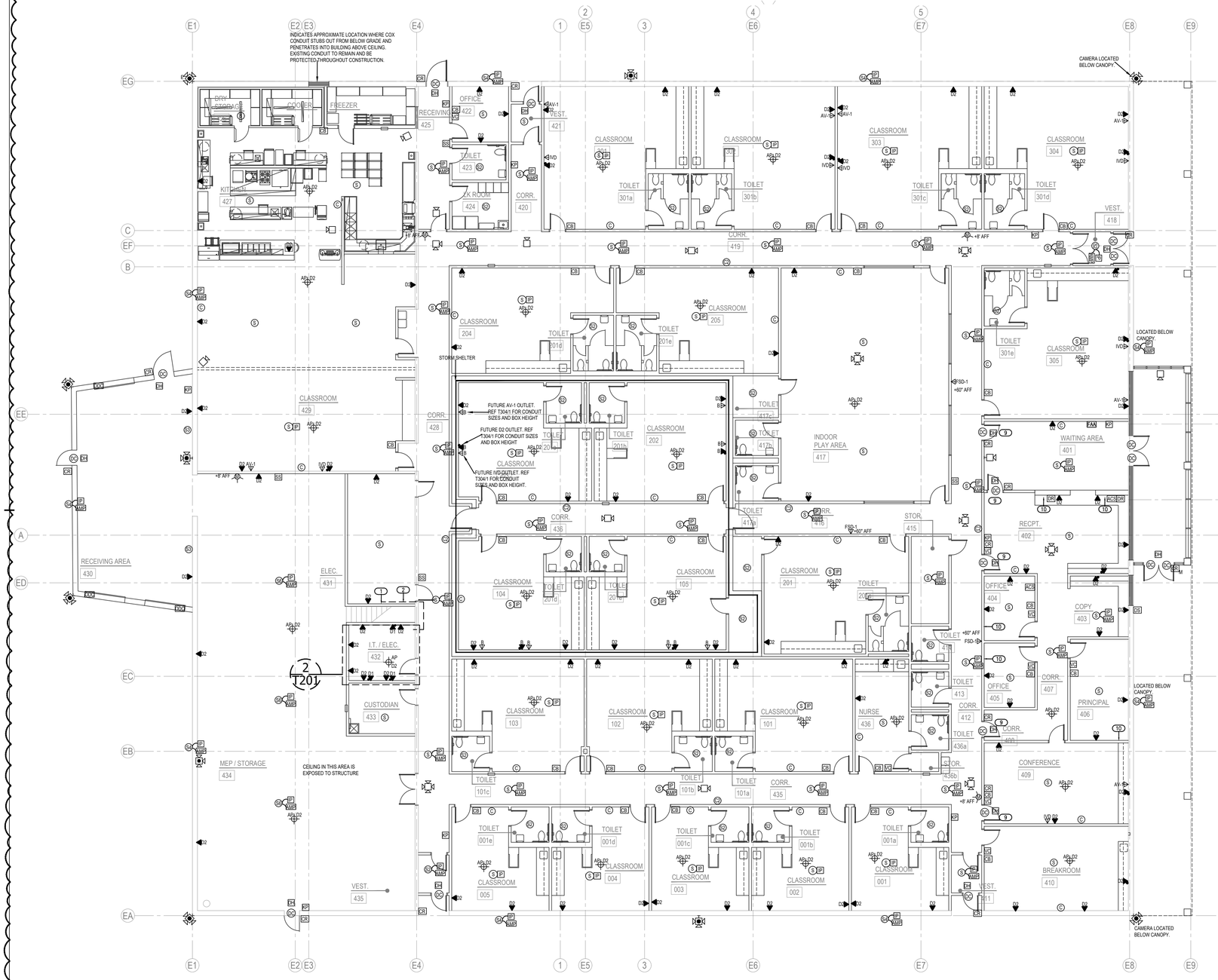

SAFEROOM NOTE

PER ICC 500–2014, 309.1:

PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE THAT ARE LARGER THAN:
1. 3.5" SQUARE INCHES IN AREA FOR RECTANGULAR OPENINGS, OR
2. 2 1/16" IN DIAMETER

SHALL BE CONSIDERED AN OPENING AND SHALL BE PROVIDED WITH AN OPENING PROTECTIVE DEVICE (SHROUD). REFERENCE STRUCTURAL DRAWINGS FOR A SAMPLE SHROUD DETAIL. THIS INCLUDES PENETRATIONS FOR BUNDLES OF CONDUIT.

1 TECHNOLOGY FLOOR PLANS

SCALE: 3/32" = 1'–0"

GENERAL NOTES

A. FIRE ALARM: CONNECT NEW FIRE ALARM DEVICES TO NEW SILENT KNIGHT 6820XL. SUPPLY 6820XL PANEL AND ALL NAC PANELS, POWER SUPPLIES, ETC. NEEDED TO MAKE A COMPLETE AN CODE COMPLIANT SYSTEM. SYSTEM SHALL USE SK PROTOCOL DEVICES ONLY. SEE SPECIFICATIONS FOR APPROVED PART NUMBERS.

B. SECURITY ALARM: CONNECT ALL NEW SECURITY ALARM DEVICES TO NEW DMP SECURITY ALARM PANEL. SUPPLY DMP PANEL AND ALL ZONE EXPANDERS, POWER SUPPLIES, ETC. NEEDED TO MAKE A COMPLETE SYSTEM. SYSTEM SHALL BE WIRED WITH 2 ZONES PER SINGLE DOOR OR DOUBLE DOOR. ONE ZONE FOR SECURITY ALARM AND ONE ZONE FOR DOOR HOLD OPEN ALERTS. SEE SPECIFICATIONS FOR APPROVED PART NUMBERS.

C. INTERCOM: INTERCOM DEVICES SHALL BE RAULAND. CONNECT ALL NEW INTERCOM DEVICES TO EXISTING RAULAND TELECENTER U IP. SUPPLY ALL MASTER CONSOLES, AMPLIFIERS, POWER SUPPLIES, MODULES, CALL BUTTONS, ETC. NEEDED TO MAKE A COMPLETE SYSTEM. ROOM SPEAKERS AND RESTROOM SPEAKERS SHALL BE TIED TOGETHER ON ONE TALK ZONE PER ROOM CALL BUTTON. EACH ROOM WITH A CALL BUTTON SHALL HAVE A STATUS LIGHT INSTALLED ABOVE ROOM DOOR ON HALLWAY SIDES. SEE SPECIFICATIONS FOR APPROVED PART NUMBERS.

D. CLOCKS: CLOCKS SHALL BE RAULAND. SEE SHEET SPECIFICATIONS FOR APPROVED PART NUMBERS.

E. ACCESS CONTROL: CONNECT ALL NEW ACCESS CONTROL DEVICES TO NEW KEYSCAN CONTROLLERS. SUPPLY KEYSCAN CONTROLLERS AND ALL POWER SUPPLIES, READERS, STRIKES, ETC. NEEDED TO FURNISH A COMPLETE SYSTEM. SEE SPECIFICATIONS FOR APPROVED PART NUMBERS.

F. CAMERA: CONNECT ALL NEW CAMERAS TO NEW MDF. CAMERA SYSTEM IS AVIGILON. CONTRACTOR TO PROVIDE DELL AVIGILON SERVER IN MDF ROOM LOCATED ON 2 POST RACK. CONTACT JACK PHILLIPS WITH MOORE PUBLIC SCHOOLS @ 405–473–5225 FOR EXACT CAMERA MOUNTING LOCATIONS AND SPECIFICATIONS. SEE SPECIFICATIONS FOR APPROVED PART NUMBERS.

G. DATA: CONNECT NEW DATA, WIFI AND CAMERA NETWORK DROPS TO NEW MDF. CONNECT NEW DAYCARE MDF TO EXISTING IDF LOCATED IN MOORE HIGH SCHOOL CCC VIA FIBER AND CAT 6 CABLE. SEE SPECIFICATIONS FOR APPROVED PART NUMBERS.

KEYED NOTES

1. CONTRACTOR TO EXTEND ENTRNCE CONDUIT ABOVE CEILING. CONTRACTOR TO MATCH NEW CONDUIT SIZE WITH EXISTING CONDUIT SIZE.
2. CONTRACTOR TO PROVIDE AND INSTALL INNERDUCT ABOVE CEILING AT THE INDICATED ROUTE TO THE NEW IT ROOM. PENETRATE AND SEAL WALLS AS NEEDED.
3. INDICATES NEW DEMARC LOCATION. PLYWOOD IS RESERVED FOR SERVICE PROVIDER EQUIPMENT.
4. INDICATES THE LOCATION OF A 8" TALL, 3/4" FIRE RATED PLYWOOD CONTRACTOR TO PROVIDE AND INSTALL PLYWOOD AND ALL REQUIRED MOUNTING HARDWARE. PLYWOOD SHALL BE PAINTED WHITE WITH FIRE RATED PAINT. TYPICAL FOR ALL SHOWN ON DRAWING.
5. INDICATES THE LOCATION OF A NEW WALL MOUNTED TELECOMMUNICATION GROUND BUS BAR (TGBB). CABLING CONTRACTOR TO PROVIDE BUS BAR AND ALL REQUIRED MATERIAL TO MOUNT AT THE LOCATION SHOWN. TGBB TO BE MOUNTED AT +93" A.F.F.
6. PROVIDE AND INSTALL A 12" WIDE, UNIVERSAL LADDER TRAY AND ALL REQUIRED MOUNTING HARDWARE. LADDER TRAY SHALL BE BLACK IN COLOR. TYPICAL FOR ALL SHOWN ON ENTIRE PROJECT.
7. PROVIDE AND INSTALL ONE (1) 2–POST, FLOOR MOUNTED, 7' RELAY RACK (BLACK IN COLOR). PROVIDE BONDING WASHERS, BOLTS, AND NUTS AT ALL MECHANICALLY CONNECTED LOCATIONS OF THE RACK TO ENSURE THAT ALL PIECES OF THE RACK ARE COMPLETELY BONDED. SCRAPING PAINT FROM RACKS TO MAKE A BOND WILL NOT BE ACCEPTED. ALL RACK MOUNTED COMPONENTS SHALL BE MOUNTED WITH BONDING SCREWS AND THE CONTRACTOR SHALL PROVIDE THE OWNER WITH (50) ADDITIONAL BONDING SCREWS FOR THE INSTALLATION OF OWNER EQUIPMENT. NO DAISY CHAINING GROUNDS FROM RACK TO CABLE TRAY OR TO OTHER RACKS WILL BE ACCEPTED. ALL GROUNDS SHALL BE HOME RUN TO THE TELECOMMUNICATIONS GROUND BUS BAR (TGBB). TYPICAL FOR ALL SHOWN ON THE ENTIRE PROJECT.
8. PROVIDE AND INSTALL ONE (1) 7'X6", FRONT AND REAR MANAGED, VERTICAL CABLE MANAGER (BLACK IN COLOR). CABLE MANAGERS SHALL BE INSTALLED ON EACH END OF THE RACK SYSTEMS AND BETWEEN EACH RACK. CABLE MANAGERS SHALL HAVE A SINGLE, SOLID, FULL HEIGHT HINGED DOOR IN THE FRONT AND WIDE SPACED CABLE RINGS WITH SPIN–OPEN LATCHES IN THE REAR. TYPICAL FOR ALL SHOWN IN THE ENTIRE PROJECT.
9. DOOR HARDWARE SPECIFIED FOR INDICATED DOORS SHOULD HAVE KEY ACCESS FROM BOTH SIDES ALLOWING EACH SIDE TO BE LOCKED AND UNLOCKED INDEPENDENTLY.
10. CONTRACTOR TO PROVIDE AND INSTALL A DMP WIRELESS HOLD UP BUTTON AT EACH LOCATION INDICATED.

2 TECHNOLOGY ENLARGED PLAN - I.T./ELEC. 432

SCALE: 1/2" = 1'–0"

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