**MOORE PUBLIC SCHOOLS -**
**CHILD CARE CENTER**
Moore Public Schools - Moore, Oklahoma
AGP - Moore, Oklahoma
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**ADDENDUM NO. 3**
December 12, 2024
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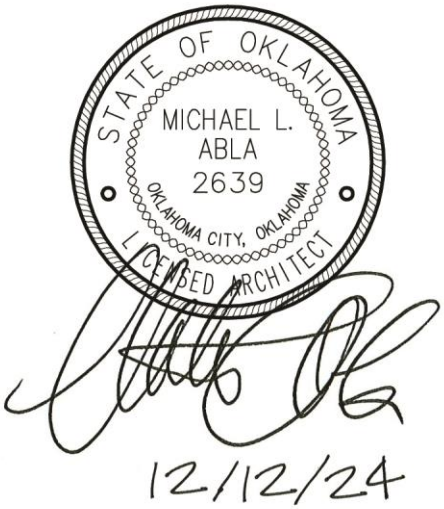


This addendum applicable to work designated herein, shall be understood to be an Addendum, and as such shall be included in the Contract Agreement.

Receipt of this Addendum shall be acknowledged by the Construction Management Firm notifying this office in writing, and by any applicable subcontractor to the CM.

This addendum consists of two (2) pages with attachments of five (5) 8.5″x11″ pages and twenty-five (25) 24″x36″ sheets.

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A. Drawings:

General

1. Added Final Plat sheet for the Food Lion 5 Addition and current project building site.

Civil

1. Sheet C300, Site Plan – Parking Requirements: various revisions – replace sheet in its entirety. Refer to attachment.

2. Sheet C900, Site Details: added details, etc. – replace sheet in its entirety. Refer to attachment.

Structural

No changes.

Architectural

1. Sheet A100c, Detail 1, Existing Mezzanine Floor Plan: added sheet in its entirety. Refer to attachment.

2. Sheet A102, Life Safety Plan: revised Corridor Width Requirements. Refer to attachment.

3. Sheet A201, Details 1 thru 4, Exterior Elevations: revised details, cast letters at east elevation, and notes. Refer to attachment.

Mechanical, Electrical, and Plumbing

Refer to attachments.

Food Service Documents

No changes.

B. Specifications:

1. Section 10420-2.02-F.2 Cast Letters at Exterior: signage shall read **MOORE PUBLIC SCHOOLS – CHILD DEVELOPMENT CENTER** in lieu of MOORE PUBLIC SCHOOLS – CHILD CARE CENTER. Also, refer to Detail 1A201.

END OF ADDENDUM NO. 3

# FOOD LION 5 ADDITION

Part of the North 475.24' of the South 1942.83' of the East Half (E 1/2) of the Southeast Quarter (SE 1/4) of Section Fourteen (Sect. 14), Township Ten North (T-10-N), Range Three West (R-3-W) of the Indian Meridian (IM), City of Moore, Cleveland County, Oklahoma, and being more particularly described as follows:

**COMMENCING** at the Southwest corner of the East Half (E 1/2) of the Southeast Quarter (SE 1/4) of said Section 14; **THENCE** North, along the East Main Street; **THENCE** East, 603.66' to a 1/2" iron rod **set** for the **POINT OF BEGINNING**; **THENCE** North 00°09'04" West, leaving the North line of said East Main Street, 475.24' to a P.K. nail set in the East line of said Section 14; **THENCE** South 00°09'04" East, along the East line of said Section 14, 475.24' to a P.K. nail set in the North line of said East Main Street; **THENCE** West, along the North line of said East Main Street, 603.66' to the **POINT OF BEGINNING** and containing 7.815 acres or 340,414 square feet of land, more or less.

We hereby dedicate to the public use all streets and avenues, parks and publice facilities, and easements as shown on the annexed plat of Food Lion - 5 Addition to the City of Moore, for the purpose of providing an orderly development of _____ to provide restrictive covenants filed in Book _____, Page _____ of the records in the office of the County Clerk, Cleveland County, Oklahoma.

In witness whereof, JAMES E. MARTIN has caused these presents to be signed this 18TH day of DECEMBER, 1991.

ATTEST: James E Martin Agent
(Title)

STATE OF OKLAHOMA §
§
COUNTY OF _____ §

Before me, the undersigned, a notary public in and for said county and state, on this 18 day of DECEMBER, 1991, personally appeared JAMES E. MARTIN to me known to be the identical person who subscribed the name of the maker thereof to the foregoing instrument as its AGENT, and that he executed the same as his free and voluntary act and deed and as the free and voluntary act and deed of such corporation for the uses and purposes therein set forth.

Given under my hand and seal the day and year last above written.

Laula K Denson
Notary Public

My Commission Expires: 4-4-95

OWNER'S CERTIFICATE AND DEDICATION

KNOW ALL MEN BY THESE PRESENTS:

That **FOOD LION, INC.** is the owner in fee simple of the following described real property to-wit:

being the sole owner in

Part of the North 475.24' of the South 1942.83' of the East Half (E 1/2) of the Southeast Quarter (SE 1/4) of Section Fourteen (Sect. 14), Township Ten North (T-10-N), Range Three West (R-3-W) of the Indian Meridian (IM), City of Moore, Cleveland County, Oklahoma, and being more particularly described as follows:

**COMMENCING** at the Southwest corner of the East Half (E 1/2) of the Southeast Quarter (SE 1/4) of said Section 14; **THENCE** North, along the East Main Street; **THENCE** East, 603.66' to a 1/2" iron rod **set** for the **POINT OF BEGINNING**; **THENCE** North 00°09'04" West, leaving the North line of said East Main Street, 475.24' to a P.K. nail set in the East line of said Section 14; **THENCE** South 00°09'04" East, along the East line of said Section 14, 475.24' to a P.K. nail set in the North line of said East Main Street; **THENCE** West, along the North line of said East Main Street, 603.66' to the **POINT OF BEGINNING** and containing 7.815 acres or 340,414 square feet of land, more or less.

We hereby dedicate to the public use all streets and avenues, parks and publice facilities, and easements as shown on the annexed plat of Food Lion - 5 Addition to the City of Moore. For the purpose of providing an orderly development of _____ to provide restrictive covenants filed in Book N/A, Page _____ of the records in the office of the County Clerk, Cleveland County, Oklahoma.

In witness whereof, JAMES E. MARTIN has caused these presents to be signed this 18TH day of DECEMBER, 1991.

ATTEST: James E Martin Agent
(Title)

STATE OF OKLAHOMA §
§
COUNTY OF _____ §

Before me, the undersigned, a notary public in and for said county and state, on this 18 day of DECEMBER, 1991, personally appeared JAMES E. MARTIN to me known to be the identical person who subscribed the name of the maker thereof to the foregoing instrument as its AGENT, and that he executed the same as his free and voluntary act and deed and as the free and voluntary act and deed of such corporation for the uses and purposes therein set forth.

Given under my hand and seal the day and year last above written.

Laula K Denson
Notary Public

My Commission Expires: 4-4-95

BONDED ABSTRACTOR'S CERTIFICATE

The undersigned, a duly qualified and lawfully bonded abstractor of titles in and for Cleveland County, State of Oklahoma, hereby certify that the records of said County show that the Title to the land shown on the Final Plat of FOOD LION 5 ADDITION, an addition to the City of Moore, Oklahoma, is vested in _____, a _____ corporation on the 11th day of December, 1991, there are no actions pending or judgements of any nature in any court or on file with the clerk of any court in said county and state against said land of owners thereof, that the taxes are paid for the year 1991 and prior years, that there are no outstanding tax sales certificates against said land and no tax deeds are issued to any person, that there are no liens, or other encumbrances of any kind against the land included in the Final Plat, except mortgages, rights-of-way, easements, and mineral conveyances of record.

In witness thereof, said Bonded Abstractor has caused this instrument to be executed this 13th day of December, 1991.

ATTEST: Rebecca Elliott, Secretary
STATE OF OKLAHOMA
COUNTY OF Cleveland §

By: Jack D. Brown, President
Cleveland County Abstract Company

Before me, the undersigned, a notary public in and for said county and state, on this 13th day of December, 1991, personally appeared Jack D. Brown to me known to be the identical person who subscribed the name of the maker thereof to the foregoing instrument as its President and duly acknowledged to me that he executed the same as his free and voluntary act and deed and as the free and voluntary act and deed of such corporation for the uses and purposes therein set forth.

Given under my hand and seal the day and year last above written.

My Commission Expires: 4-4-95
Notary Public

CERTIFICATE OF PLANNING COMMISSION

I, TERESA WILLIAMS, VICE CHAIRMAN, of the Planning Commission of the City of Moore, Oklahoma, hereby certify that the said Planning Commission duly approved the Final Plat of FOOD LION 5 ADDITION, an addition to the City of Moore, Oklahoma, at a meeting the 10th day of September, 1991.

Teresa Williams
Vice-Chairman

COUNTY TREASURER'S CERTIFICATE

I, Carol Lawing, do hereby certify that I am the duly qualified and acting County Treasurer of Cleveland County, Oklahoma, that the tax records of said county show that all taxes for the year 1991 and prior years are paid on the Final Plat of FOOD LION 5 ADDITION, an addition to the City of Moore, Oklahoma, that the required statutory security has been deposited in the offices of the County Treasurer guaranteeing the current year's taxes.

In witness whereof said County Treasurer has caused this instrument to be executed this 17th day of December, 1991.

Carol Lawing
County Treasurer
by Jan Bryan

ACCEPTANCE OF DEDICATION BY CITY COUNCIL

Be it resolved by the Council of the City of Moore, Oklahoma, that the dedication shown on the Final Plat of FOOD LION 5 ADDITION, an addition to the City of Moore, Oklahoma, is hereby accepted.

Adopted by the Council of the City of Moore, Oklahoma this 7th day of October, 1991.

Joe Sturges, Mayor

ATTEST: Mildred Ables
City Clerk

CITY CLERK'S CERTIFICATE

I, **MICHAEL A. DREA**, City Clerk of Moore, Oklahoma hereby certify that I have examined the records of said City of Moore, Oklahoma and find that all deferred payments or unmatured installments upon special assessments have been paid in full and that there is no special assessment procedure now pending against the land shown on the annexed map of the plat of FOOD LION 5 ADDITION, an addition to the City of Moore, Oklahoma on the 4th day of December, 1991.

MICHAEL A. DREA
City Clerk

STATE OF OKLAHOMA
COUNTY OF CLEVELAND
FILED FOR RECORD
19 92 at 8:04 AM
Book PL 16 Page 57
PAT DODSON, County Clerk
By Debbie Dean, Deputy

#4252

FND NAIL

P.O.C.

SOUTH 1468.50'

SW COR. E 1/2, SE 1/4 SECTION 14, TOWNSHIP 10 NORTH RANGE 3 WEST, INDIAN MERIDIAN

WEST 2938.39'

EAST 603.66'

P.O.B.

FIRST FREE WILL BAPTIST CHURCH 1.23 ACRES

LONSTANCE P.M. BRAND 3.4 ACRES

SIR 1/2

N 00°09'04" W 475.24'

455.24'

50' INGRESS, EGRESS & UTILITY ESMT. BOOK 1852, PG. 156 D.R.C.C.O.

50'

212'

40' x 10' UTILITY EASEMENT

50' RIGHT OF WAY DEDICATION

115'

10' x 48' GAS ESMT.

ALBERTA & LEAN JONES

666.30'

EAST

716.30'

362.80'

20' UTILITY EASEMENT

10' x 28' UTILITY ESMT.

NORTH 455.24'

15' UTILITY EASEMENT

JEROME, JEANE, ARLENA, HEATHER, LYN, ANGELA DOONE, EVELINE & GLENNA JOHNSON 1.87 ACRES

LOT 1
6.577 ACRES GROSS
286,482 SQ. FT. GROSS
6.080 ACRES NET
264,865 SQ. FT. NET

1019.96'

20' RIGHT OF WAY DEDICATION

25' BLDG. LINE

490.87'

N 00°09'04" W 219.24'

LOT 2
1.238 ACRES GROSS
53,932 SQ. FT. GROSS
0.876 ACRES NET
38,149 SQ. FT. NET

30'

S 44°55'28" W 35.31'

25'x25' CORNER CLIP

150.43'

15' DRNG. ESMT.

OKLAHOMA NATURAL GAS CO. 17' ESMT. BLK 590, PG. 30 D.R.C.C.O.

EAST 175.43'

25' BLDG. LINE

194.24'

236.00'

200.04'

FIP 1"

R.O.W. DEDICATION 50'

56.49'

50.16'

55.25'

S 00°09'04" E 1437.84'

FND. "X" CUT IN CONCRETE SE CORNER SECTION 14, TOWNSHIP 10 NORTH RANGE 3 WEST INDIAN MERIDIAN

FND. NAIL

SET PK NAIL

S 00°09'04" E 475.24'

CENTERLINE

N 00°09'04" W 699.20'

FND NAIL NE. CORNER SE. 1/4 SECTION 14, TOWNSHIP 10 NORTH RANGE 3 WEST, INDIAN MERIDIAN

EASTERN AVENUE

STATE OF OKLAHOMA R.O.W. EASEMENT BOOK 76, PG. 469 M.R.C.C.O.

CLEVELAND COUNTY 60' R.O.W. EASEMENT BOOK 87, PG. 508 D.R.C.C.O.

E. MAIN STREET

WEST 716.30'

CENTERLINE

SCALE 1"=50' FEET 0 25 50 100

VICINITY MAP

N

MAIN ST. INTERSTATE 35 MAIN ST. BROADWAY ST. 4TH ST. PROJECT LOCATION EASTERN AVE.

OWNER

OWNER'S NOTARY

ABSTRACTOR

ABSTRACTOR NOTARY

COUNTY TREASURER

SURVEYOR'S SEAL

SURVEYOR'S NOTARY

CITY OF MOORE

| No. | DATE | REVISION | APPROV. |
|---|---|---|---|
| | | | |
| | | | |
| | | | |

| | |
|---|---|
| Scale : 1"=50' | Date : 8/16/91 |
| Designed By : | AMMERMAN |
| Drawn By : | AMMERMAN |
| Checked By : | AMMERMAN |
| File : | 6422FPLT.dwg |
| Project No. : | 06422.02 |

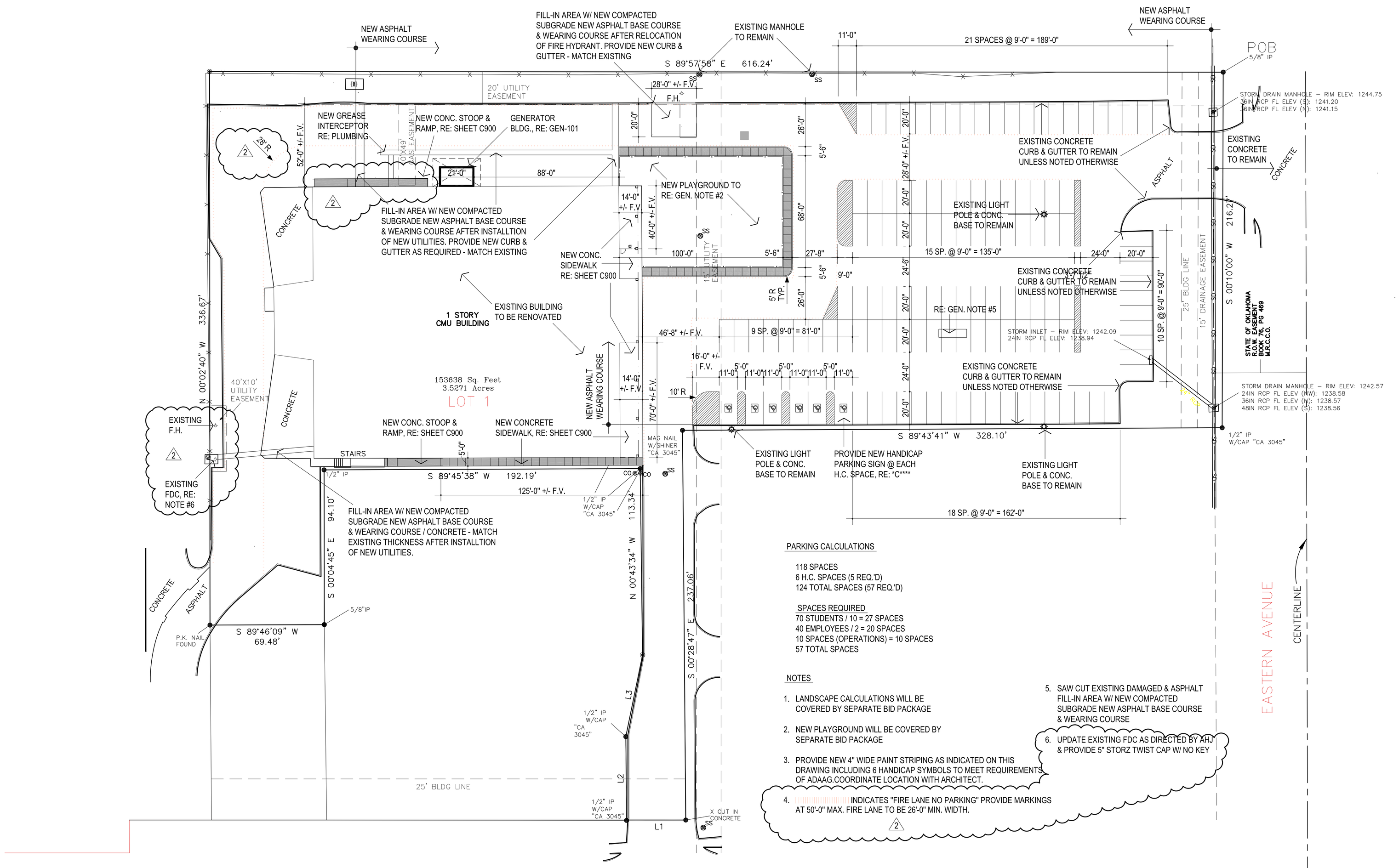
SHEET 1 OF 1

# FINAL PLAT
## FOOD LION 5 ADDITION
## CITY OF MOORE, CLEVELAND COUNTY, OKLAHOMA

**FOOD LION SITE OK-5**
PART OF E 1/2 OF SE 1/4 OF SECT. 14, TWP 10, N., RANGE 3 WEST INDIAN MERIDIAN
CITY OF MOORE, CLEVELAND COUNTY, OKLAHOMA

**OWNER:** JEM ACQUISITION AND DEVELOPMENT, INC.
1303 WALNUT HILL LANE #110
IRVING, TX 75038

**Winkelmann & Associates, Inc.**
CONSULTING CIVIL ENGINEERS ■ SURVEYORS
12800 HILLCREST ROAD, SUITE 200 DALLAS, TEXAS 75230
(214) 490-7090
(214) 490-7099 FAX




1 SITE PLAN - PARKING REQUIREMENTS

1" = 30'-0"

PARKING CALCULATIONS

118 SPACES
6 H.C. SPACES (5 REQ.'D)
124 TOTAL SPACES (57 REQ.'D)

SPACES REQUIRED
70 STUDENTS / 10 = 27 SPACES
40 EMPLOYEES / 2 = 20 SPACES
10 SPACES (OPERATIONS) = 10 SPACES
57 TOTAL SPACES

NOTES

1. LANDSCAPE CALCULATIONS WILL BE COVERED BY SEPARATE BID PACKAGE
2. NEW PLAYGROUND WILL BE COVERED BY SEPARATE BID PACKAGE
3. PROVIDE NEW 4" WIDE PAINT STRIPING AS INDICATED ON THIS DRAWING INCLUDING 6 HANDICAP SYMBOLS TO MEET REQUIREMENTS OF ADAAG.COORDINATE LOCATION WITH ARCHITECT.
4. INDICATES "FIRE LANE NO PARKING" PROVIDE MARKINGS AT 50'-0" MAX. FIRE LANE TO BE 26'-0" MIN. WIDTH. (2)
5. SAW CUT EXISTING DAMAGED & ASPHALT FILL-IN AREA W/ NEW COMPACTED SUBGRADE NEW ASPHALT BASE COURSE & WEARING COURSE
6. UPDATE EXISTING FDC AS DIRECTED BY AHJ & PROVIDE 5" STORZ TWIST CAP W/ NO KEY

(2)


Figure D103.6 Fire Lane Signs

D103.6 Signs. Where required by the fire code official, fire apparatus access roads shall be marked with permanent NO PARKING-FIRE LANE signs complying with Figure DI03.6. Signs shall have a minimum dimension of 12 inches wide by 18 inches high and have red letters on a white reflective background. Signs shall be posted on one or both sides of the fire apparatus road as required by Section DI03.6.1 or DI03.6.2.

D103.6.1 Roads 20 to 26 feet in width. Fire apparatus access roads 20 to 26 feet wide shall be posted on both sides as a fire lane.


AGP
the Abla Griffin Partnership L.L.C.

313 S. E. 5th Street
MOORE, OK. 73160
405.735.3477
AGP@theAGP.net
www.theAGP.net

CEDAR CREEK
CIVIL

KFC ENGINEERING
STRUCTURAL

SALAS O'BRIEN
MECHANICAL / ELECTRICAL


STATE OF OKLAHOMA MICHAEL L. ABLA 2639 REGISTERED ARCHITECT

10/22/24

CG
drawn by

MA
checked by

OCTOBER 2024
date

revisions
(1) ADDENDUM #2
(2) ADDENDUM #3

MOORE PUBLIC SCHOOLS

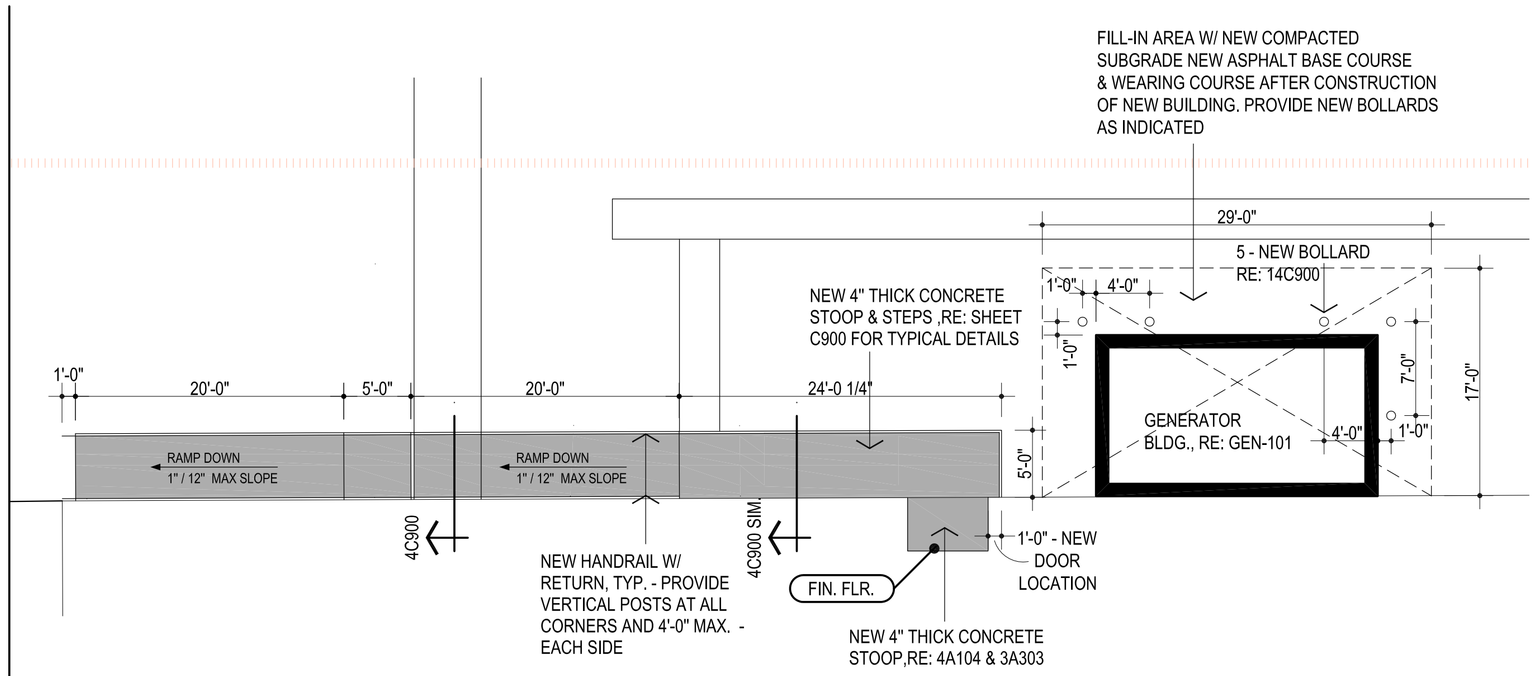
CHILD CARE FACILITY
201 N. EASTERN AVE.

sheet no:

C300



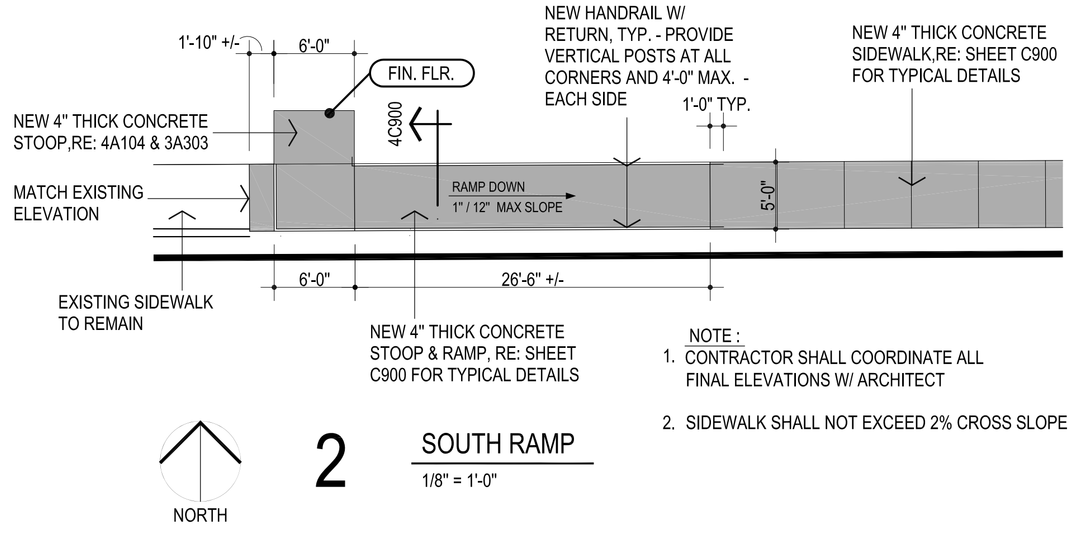
(1) ENTIRE SHEET




1 NORTH RAMP

1/8" = 1'-0"

NOTE :
CONTRACTOR SHALL COORDINATE ALL FINAL ELEVATIONS W/ ARCHITECT

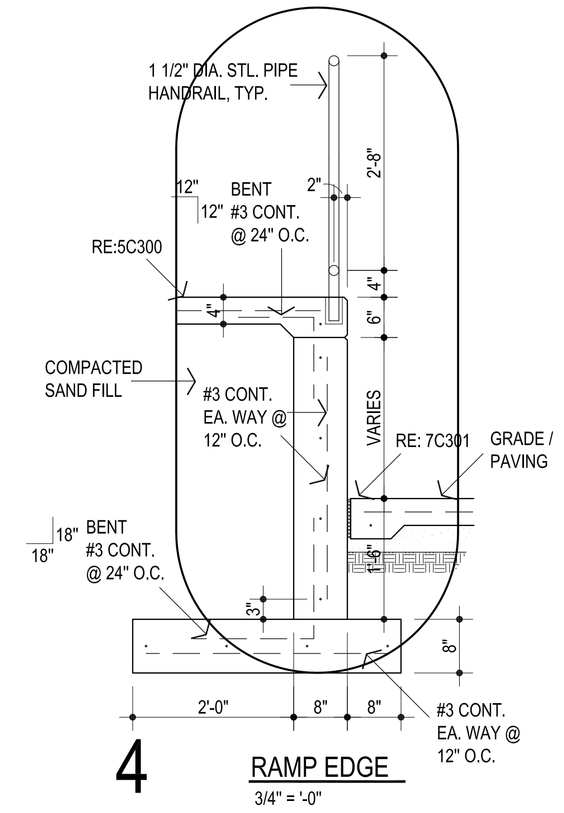



2 SOUTH RAMP

1/8" = 1'-0"

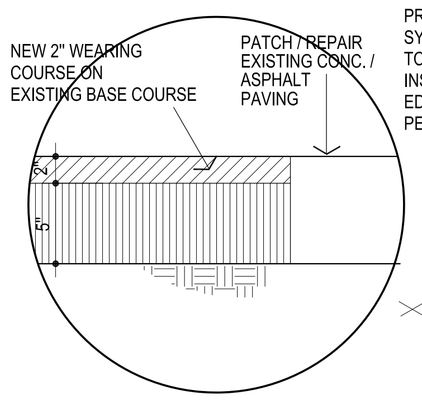
NOTE :
1. CONTRACTOR SHALL COORDINATE ALL FINAL ELEVATIONS W/ ARCHITECT
2. SIDEWALK SHALL NOT EXCEED 2% CROSS SLOPE

3 NUMBER NOT USED



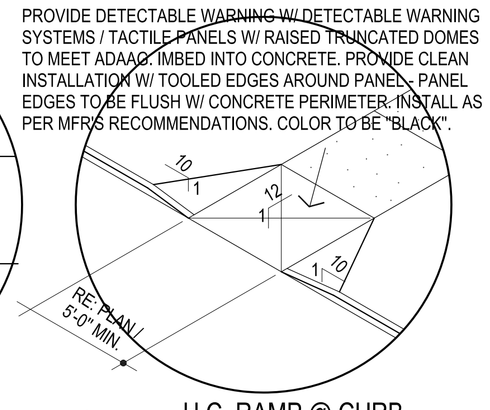

4 RAMP EDGE

3/4" = '-0"



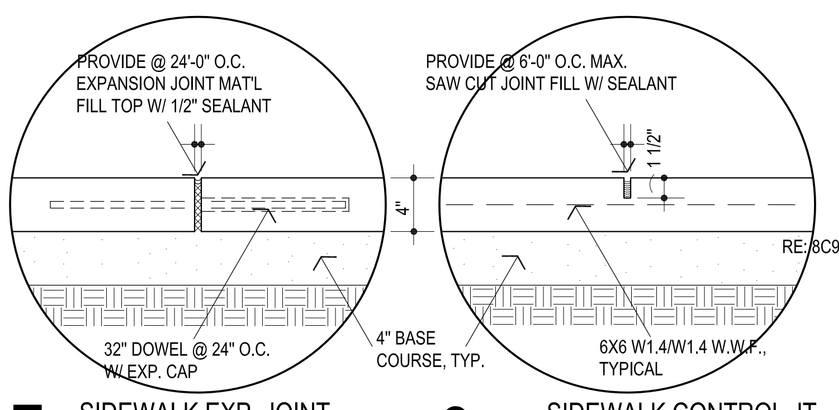

5 PAVING EDGE

NOT TO SCALE




6 H.C. RAMP @ CURB

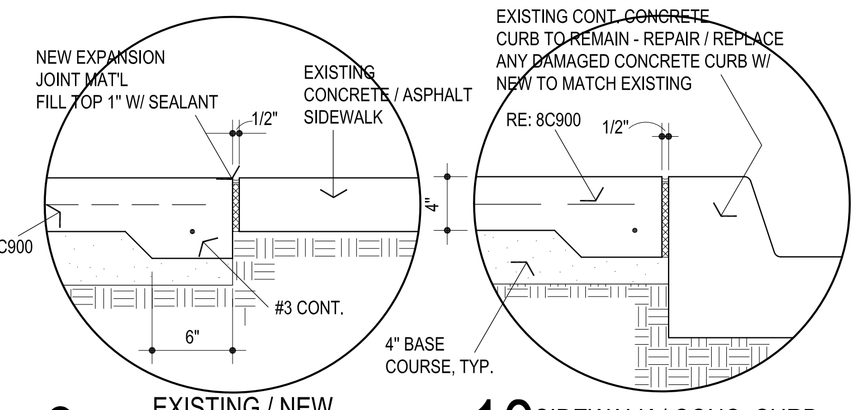
NOT TO SCALE




7 SIDEWALK EXP. JOINT



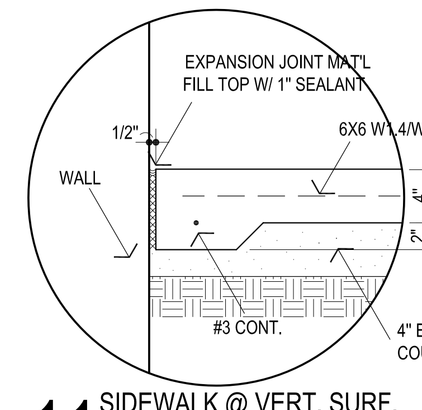

8 SIDEWALK CONTROL JT.



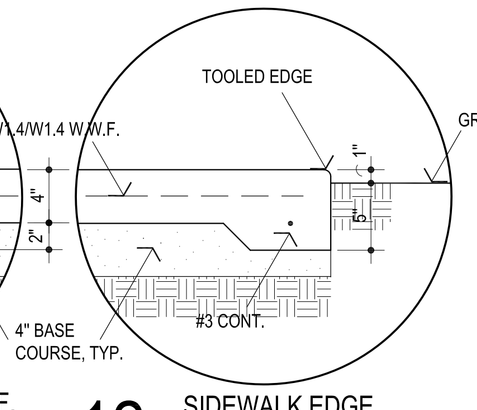

9 EXISTING / NEW CONCRETE SIDEWALK



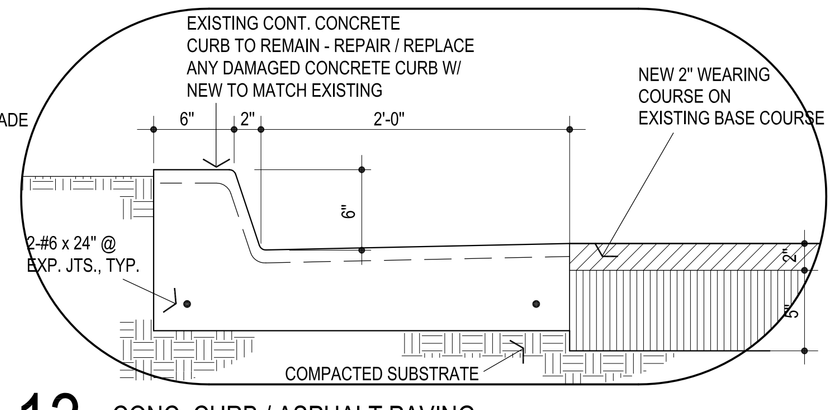

10 SIDEWALK / CONC. CURB



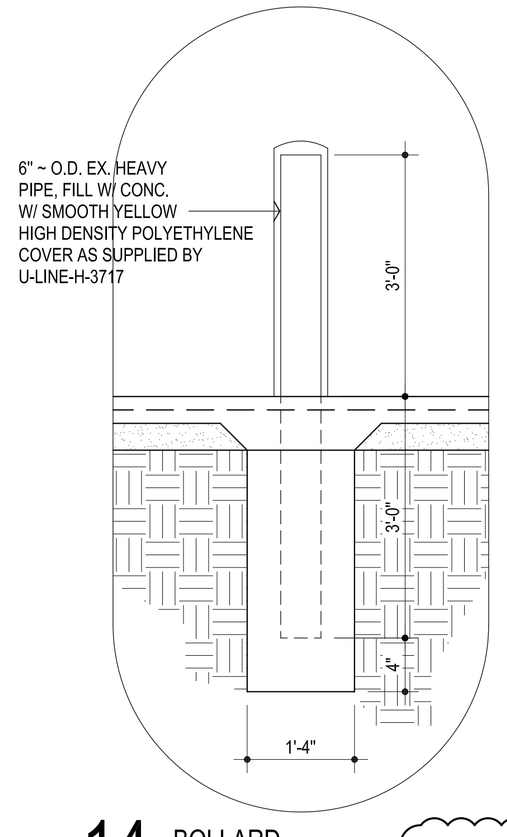

11 SIDEWALK @ VERT. SURF.




12 SIDEWALK EDGE




13 CONC. CURB / ASPHALT PAVING




14 BOLLARD

1 ENTIRE SHEET

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CG
drawn by

MA
checked by

OCTOBER 2024
date

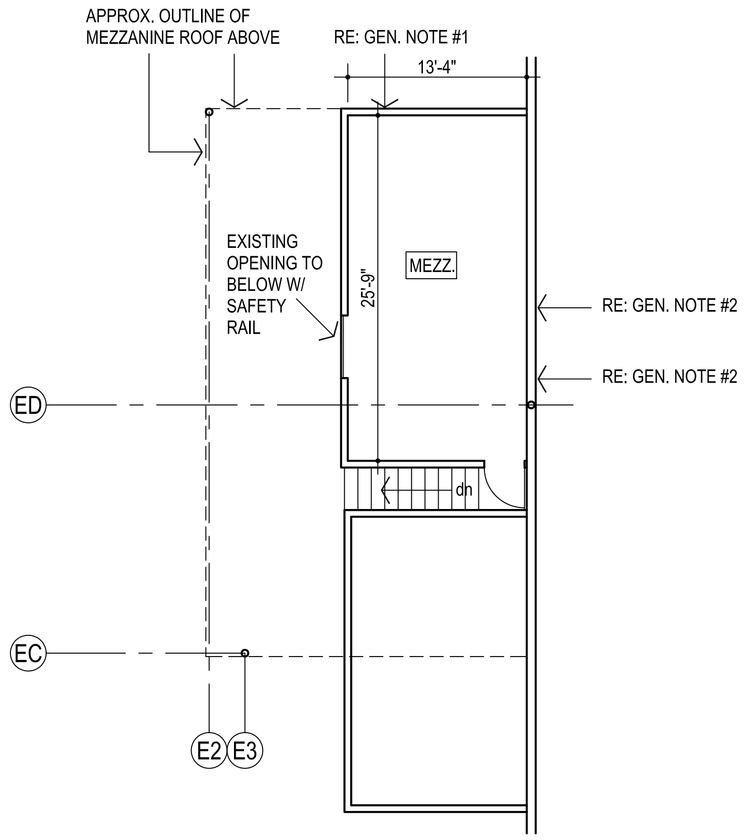
revisions
1 ADDENDUM #2
2 ADDENDUM #3

MOORE PUBLIC SCHOOLS

CHILD CARE FACILITY
201 N. EASTERN AVE.

sheet no:

C900




GENERAL NOTES:

1. REMOVE EXISTING MECH. HOOD AND ASSOCIATED ASSOCIATED EQUIPMENT. PREPARE OPENING TO RECEIVE NEW IN-FILL FRAMING.
2. REMOVE EXISTING MECH. LOUVER AND ASSOCIATED ASSOCIATED EQUIPMENT. PREPARE OPENING TO RECEIVE NEW IN-FILL FRAMING.
3. AT ALL EXTERIOR WALLS ABOVE EXISTING ROOF DECK PROVIDE NEW 6" BATT INSULATION AND 5/8" GYP. BD. COORDINATE WITH ARCHITECT

NORTH

## 1 EXISTING MEZZANINE

1/8" = 1'-0"

△1 ENTIRE SHEET

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MICHAEL L. ABLA
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10/22/24

CG
drawn by

MA
checked by

OCTOBER 2024
date

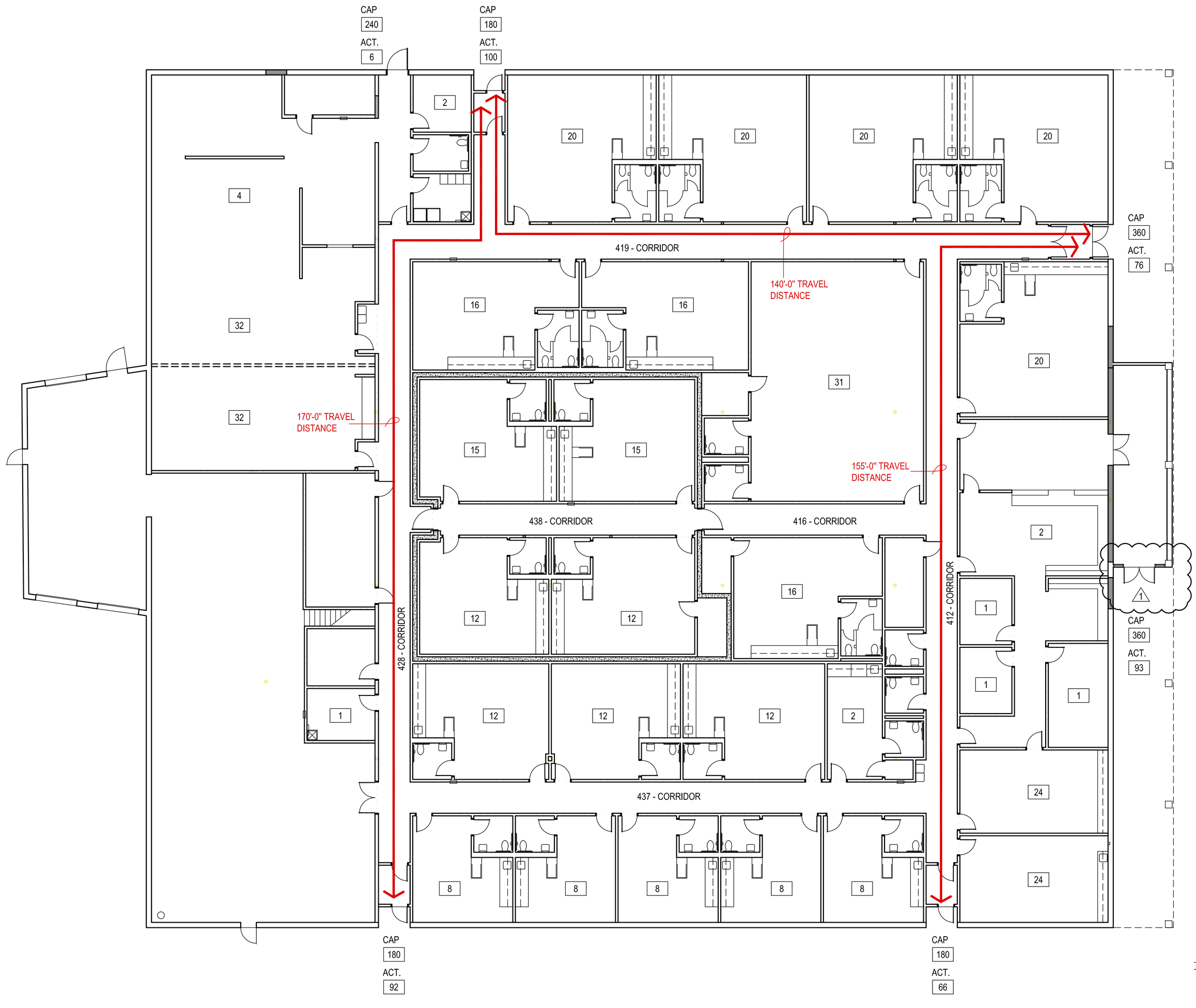
revisions
△1 ADDENDUM #3

MOORE PUBLIC SCHOOLS

CHILD CARE FACILITY
201 N. EASTERN AVE.

sheet no:

A100c




NORTH

1 LIFE SAFETY PLAN (2)

3/32" = 1'-0"

CONSTRUCTION DATA (TABLE 503):

| | |
|---|---|
| OCCUPANCY - | E & I-4 |
| CONSTRUCTION TYPE - | TYPE II - B |
| BASIC ALLOWABLE AREA - | E - 58,000 S.F. / I-4 - 52,000 S.F. PER FLOOR |
| ALLOWABLE STORIES - | 3 / 3 |
| ACTUAL STORIES - | 1 / 1 |
| ACTUAL HEIGHT - | 23'-4" |

BUILDING SIZES:

BUILDING : 1 STORY @ 32,200 S.F.

STRUCTURAL FIRE PROTECTION (TABLE 601):

| | |
|---|---|
| EXTERIOR BEARING WALLS | 0 HOUR |
| INTERIOR BEARING WALLS | NONCOMBUSTIBLE |
| EXTERIOR NONBEARING WALLS | NONCOMBUSTIBLE |
| COLUMNS | 0 HOUR |
| BEAMS | 0 HOUR |
| PERMANENT PARTITIONS | NONCOMBUSTIBLE |
| FLOOR ASSEMBLIES | 0 HOUR |
| ROOF ASSEMBLIES | 0 HOUR |
| EXTERIOR OPENINGS | N/A |

PASSIVE FIRE SAFETY SYSTEM:
PORTABLE FIRE EXTINGUISHERS (RE: SHEETS A104)
TRAVEL DISTANCE = 250'-0" MAX.
ACTUAL MAX. TRAVEL DISTANCE = 170'-0"
DEADEND - 50'-0" MAX.
ACTUAL DEADEND - NONE

ACTIVE FIRE SAFETY SYSTEMS (EXISTING & NEW ADDITION):
FIRE SPRINKLER SYSTEM THROUGHOUT
FIRE ALARM SYSTEM
SMOKE DETECTION
AUTOMATIC AIR HANDLING EQUIP. SHUTDOWN
EXIT LIGHTS/EMERGENCY LIGHTS BATTERY

CODES/REGULATIONS USED (CITY OF MOORE):
2018 IBC - INTERNATIONAL BUILDING CODE
AMERICAN WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES
2020 NATIONAL ELECTRICAL CODE
2018 INTERNATIONAL PLUMBING CODE
2018 INTERNATIONAL MECHANICAL CODE
2018 INTERNATIONAL FIRE CODE
2009 ENERGY CONSERVATION CODE
ASSOCIATED SUPPLEMENTS TO EACH CODE

OCCUPANT LOAD (TABLE 1004.1.1) :

BUILDING RENOVATION: 278 CHILDREN
12 ADMIN / STAFF
40 TEACHERS

330 TOTAL OCCUPANTS

EGRESS WIDTH:

BUILDING RENOVATION: REQUIRED 66"
BUILDING RENOVATION: PROVIDED 432"

PLUMBING FIXTURES (TABLE 2902.1) :

TOTAL OCCUPANT LOAD ( INSTITUTIONAL ) = 330

| TOTAL REQUIRED: | TOTAL PROVIDED |
|---|---|
| WATER CLOSETS = 22 | WATER CLOSETS = 34 |
| LAVATORIES = 22 | URINALS = 0 |
| DRINKING FOUNTAINS = 4 | LAVATORIES = 49 |
| SERVICE SINKS = 1 | DRINKING FOUNTAINS = 4 |
| | SERVICE SINKS = 2 |

DENOTES 1 HR. RATED PARTITIONS CLOSE-OUT TO BOTTOM OF DECKING - CLOSE-OUT PARTITIONS TO BE CMU WHERE INDICATED ON STRUCTURAL FOR LOAD BEARING CONDITIONS. ALL OTHER INDICATED LOCATIONS TO BE CONSTRUCTED OF 1 LAYER OF 5/8" FIRE RATED GYP. BOARD EACH SIDE ON 6" METAL STUDS @ 16" O.C. STAGGER ALL JOINTS & PROVIDE FIRE TAPE. SEAL ALL PENETRATIONS W/ CONTINUOUS FIRE STOPPING INSULATION &/OR SEALANT.

CORRIDOR WIDTH REQUIREMENTS :

(3) *** DENOTES NUMBER OF OCCUPANTS PER ROOM

412 - CORRIDOR : 78 MAX. OCCUPANTS X 0.20 = 16" REQ'D / 72" PROVIDED
416 - CORRIDOR : 58 MAX. OCCUPANTS X 0.20 = 12" REQ'D / 72" PROVIDED
419 - CORRIDOR : 100 MAX. OCCUPANTS X 0.20 = 20" REQ'D / 80" PROVIDED
428 - CORRIDOR : 92 MAX. OCCUPANTS X 0.20 = 19" REQ'D / 73" PROVIDED
437 - CORRIDOR : 48 MAX. OCCUPANTS X 0.20 = 10" REQ'D / 72" PROVIDED

ALL CORRIDORS & EXIT DOORS EXCEED MINIMUM CLEARANCES AS REQUIRED BY IBC & ADA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CEDAR CREEK
CIVIL

KFC ENGINEERING
STRUCTURAL

SALAS O'BRIEN
MECHANICAL / ELECTRICAL


STATE OF OKLAHOMA
MICHAEL L. ABLA
2639
REGISTERED ARCHITECT
10/22/24

CG
drawn by

MA
checked by

OCTOBER 2024
date

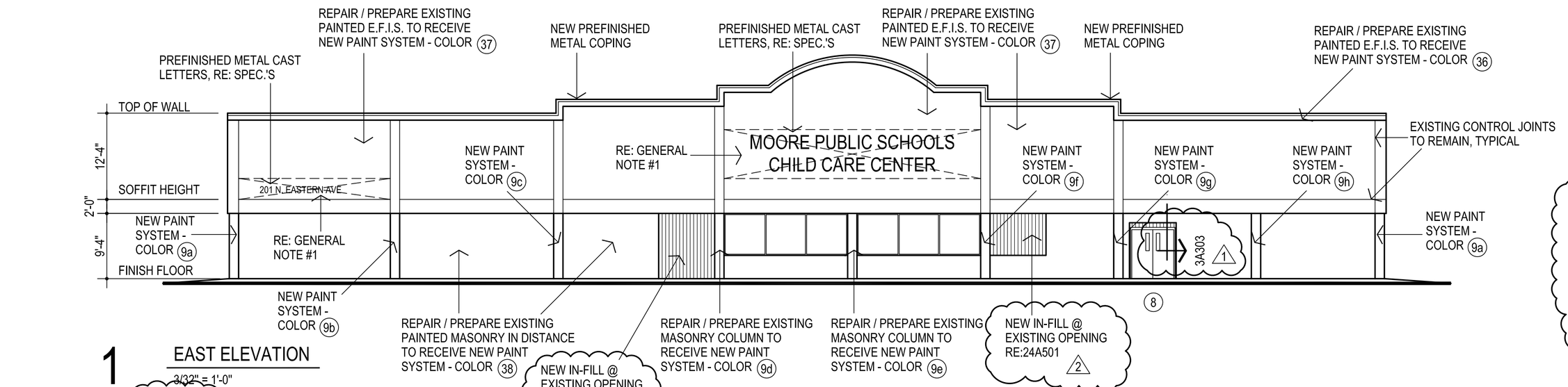
revisions
(1) ADDENDUM #1
(2) ADDENDUM #2
(3) ADDENDUM #3

MOORE PUBLIC SCHOOLS

CHILD CARE FACILITY
201 N. EASTERN AVE.

sheet no:

A102

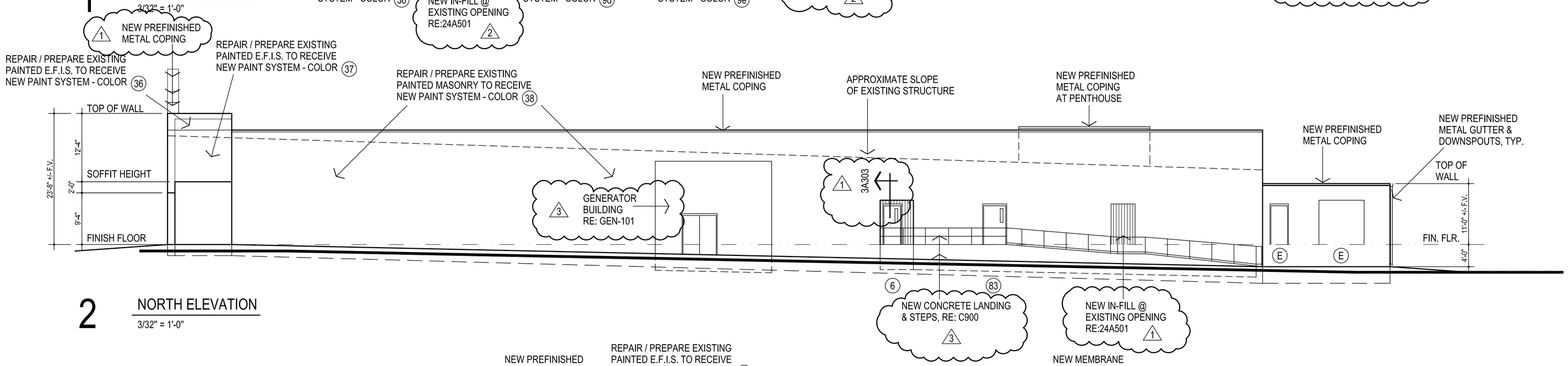



1 EAST ELEVATION

3/32" = 1'-0"

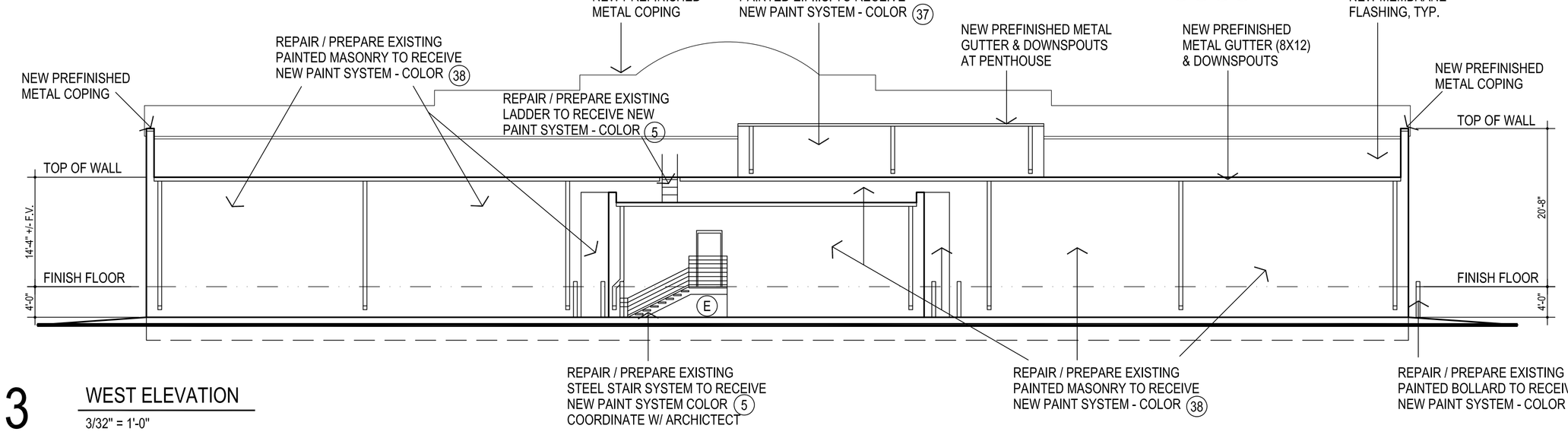
GENERAL NOTE 2

1. REMOVE EXISTING E.I.F.S. SYSTEM AS REQUIRED FOR NEW 3/4" PLYWOOD BLOCKING @ NEW CAST LETTERS. INSTALL NEW E.I.F.S. SYSTEM TO MATCH EXISTING SYSTEM TO REMAIN
2. AT ALL EXISTING E.I.F.S. - REPAIR / PREPARE PAINTED E.F.I.S. TO RECEIVE NEW PAINT SYSTEM



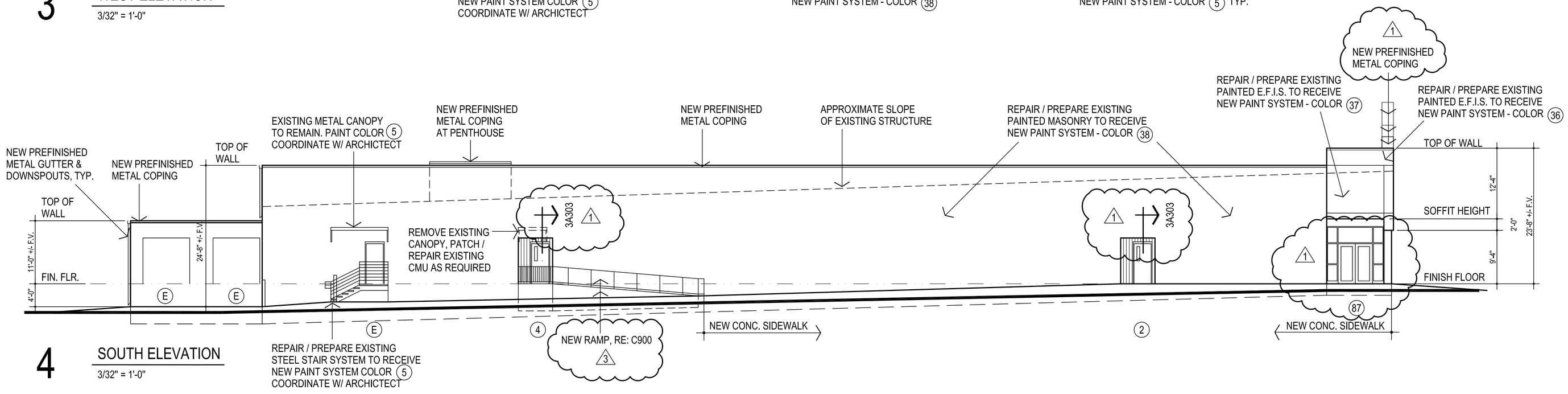

2 NORTH ELEVATION

3/32" = 1'-0"




3 WEST ELEVATION

3/32" = 1'-0"




4 SOUTH ELEVATION

3/32" = 1'-0"

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10/22/24

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MA
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OCTOBER 2024
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1 ADDENDUM #1
2 ADDENDUM #2
3 ADDENDUM #3

MOORE PUBLIC SCHOOLS

CHILD CARE FACILITY
201 N. EASTERN AVE.

sheet no:

A201

# ADDENDUM 03

Issue Date: December 12, 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 (20) attachments.

- Index of Attachments
  - Earthsmart Controls Proposal
  - M101 T403 E201 E602
  - M201 P001 E202
  - M501 P110 E203
  - M601 E000 E401
  - F101 E100 E502
  - T201 E101 E601

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

## CHANGES TO BIDDING REQUIREMENTS

The attached Earthsmart Temperature Control proposal shall be included as part of the mechanical bid for this project.

## 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.*

M101 – MECHANICAL FLOOR PLAN

- Refer to clouds and deltas on plan.

M201 – MECHANICAL ROOF PLAN

- Refer to clouds and deltas on plan.

M501 – MECHANICAL DETAILS

- Refer to clouds and deltas on plan.

M601 – MECHANICAL SCHEDULES

- Refer to clouds and deltas on plan.

F101 – Fire Protection Plan

- Refer to clouds and deltas on plan.

T201 – TECHNOLOGY FLOOR PLANS

- Refer to clouds and deltas on plan.

T403 – TECHNOLOGY SHEET SPECIFICATIONS

- Refer to clouds and deltas on plan.

P001 – PLUMBING SITE PLAN

- Refer to clouds and deltas on plan.

P110 – PLUMBING PLAN – ABOVE GRADE

- Refer to clouds and deltas on plan.

E000 – ELECTRICAL TITLE SHEET

- Refer to clouds and deltas on plan.

E100 – ELECTRICAL SITE PLAN

- 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.

E502 – ELECTRICAL DETAILS SHEET

- 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.

## END OF ADDENDUM [03]

EARTHSMART CONTROLS
5305 N Santa Fe Avenue
Oklahoma City, OK 73118
www.earthsmartcontrols.com
Phone: (405) 778-8008
Fax: (866) 676-5602

**To: Moore Houchin Elementary Bidders** **November 26, 2024**
**Attn: Estimator**

This is a proposal to provide controls for the Moore Schools Childcare Facility project.

**RTUs (16)**

- Provide and install Honeywell controls.
- Install communication, controller, supply air sensor, fan status, compressor statuses, digital space temperature/humidity/ CO2 sensor to control outside air damper (damper actuator by others).
- Commission the units to ensure proper operation.

**GPS Ionizers (16)**

- Provide and install 16 new GPS-FC48-AC ionizers.
- Commission the unit to ensure proper operation.

**Honeywell WEBS N4 Frontend**

- Tie to existing WEB-8000 onsite and integrate N4 supervisor station (graphical user interface).
- Provide a 25 Device JACE to allow for future expansion.
- Provide 4 hours of user training.
- ***Provide 1-year parts and labor warranty.***
- Provide graphical representations of equipment listed above.
- Provide custom trending and alarming.
- Provide scheduling capabilities and remote access.

We thank you for the opportunity to bid and look forward to working with you soon.

If you have any questions, please feel free to contact us at (405) 778-8008.

**Exclusions for total job: Any wiring above 24V, EF Controls, Kitchen equipment control, carbon monoxide sensors, smoke detectors, RTU damper actuators and anything not mentioned in this proposal.**

**Continued on next page…**

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Oklahoma City, OK 73118
www.earthsmartcontrols.com
Phone: (405) 778-8008
Fax: (866) 676-5602

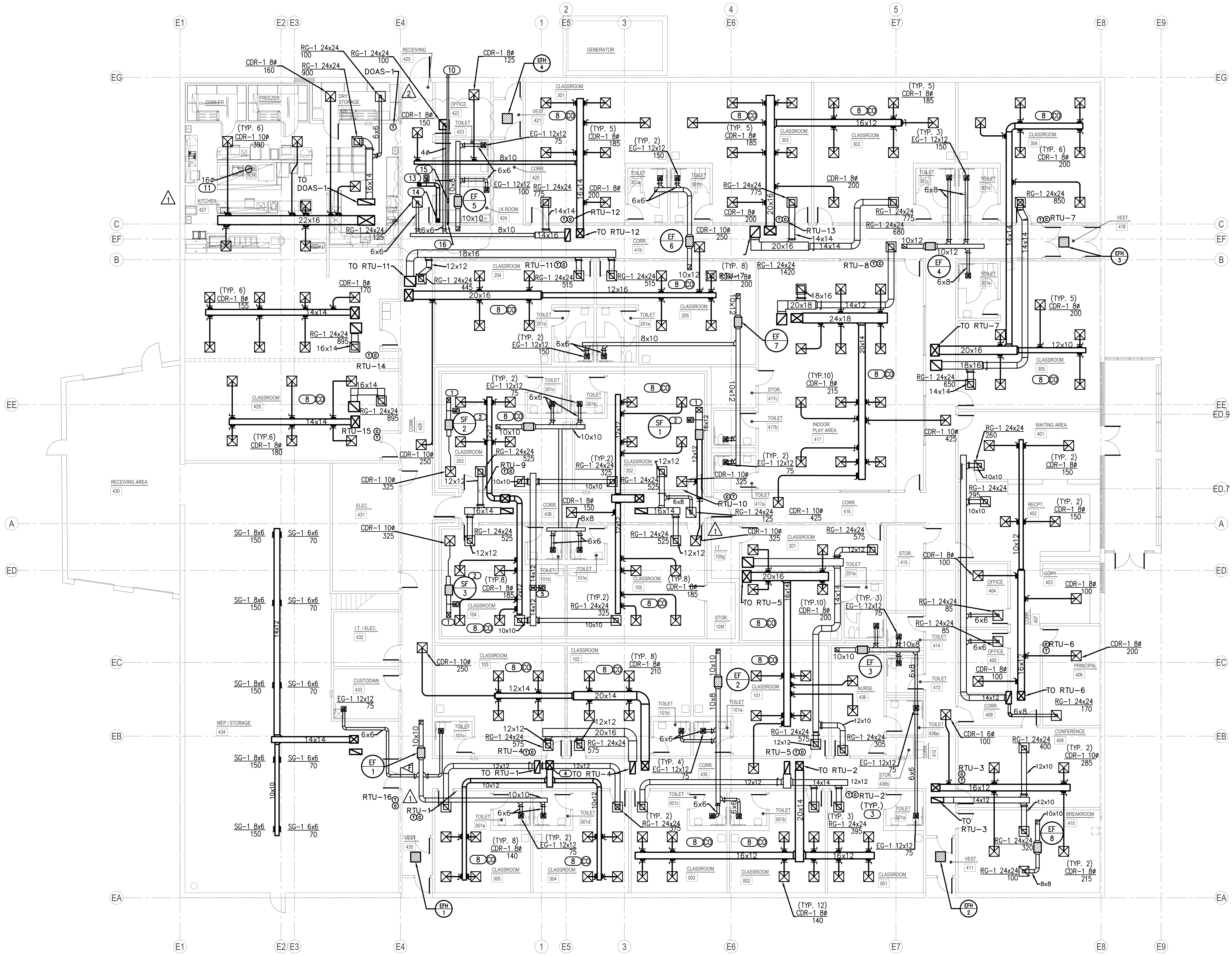
**The total price for the control work above is: $72,710.00**
**Seventy-Two Thousand Seven Hundred and Ten Dollars**

Erin Bevill
Controls Manager
EarthSmart Controls, LLC

Company:_____ Signature: _____

Date:_____ Printed Name: _____

Title:_____ PO #: _____



# 1 MECHANICAL FLOOR PLAN

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

NORTH

## 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. △2

⑥ MOUNT BOTTOM OF LOUVER MINIMUM 60" ABOVE LV–2. LOUVER CONNECTION FOR ENGINE EXHAUST.

⑦ MOUNT BOTTOM OF LOUVER MINIMUM 18" AFF. LOUVER CONNECTION FOR RADIATOR EXHAUST.

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.

△1 ⑪ DUCT 14" DIA. UP TO ROOF EXHAUST FAN OPENING. TRANSITION TO HOOD COLLAR PER KITCHEN SPECIFICATIONS.

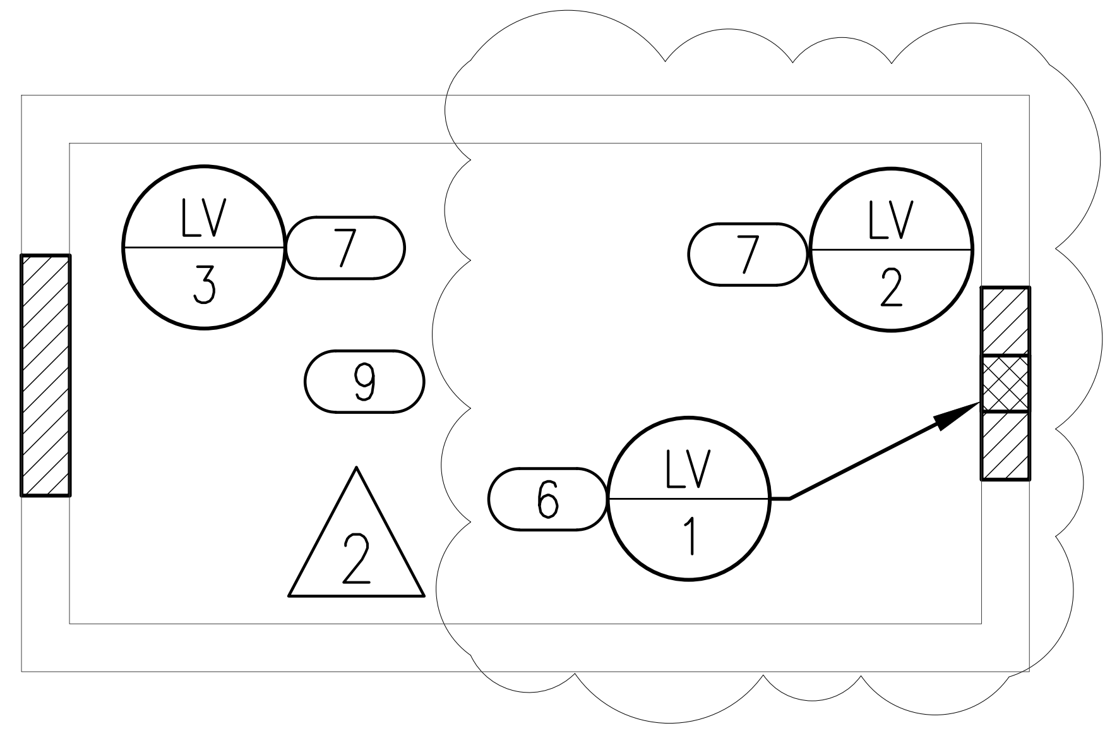
⑫ DOAS UNIT SHALL CYCLE DOWN TO TEMPER KITCHEN WHILE HOODS ARE OFF.

△2 ⑬ DUCT 8"x8" MAKEUP AIR DUCT TO ROOF HOOD. INTERLOCK MOTORIZED DAMPER WITH POWER OF DRYER.

⑭ MAKEUP AIR DUCT TO BE DUCTED DOWN BEHIND DRYERS TO 20" AFF. COVER DUCT OPENING WITH 1/4" WIRE MESH.

⑮ PROVIDE UL–705 LISTED DRYER BOOSTER FAN OF FANTECH DBF 110 OR APPROVED EQUIVALENT. FAN SHALL PROVIDE MINIMUM OF 160 CFM. INTERLOCK FAN WITH POWER OF DRYER.

⑯ PROVIDE EXTERNAL LINT TRAP OF FANTECH DBLT 4W OR EQUIVALENT AT DRYER EXHAUST CONNECTION.



# 2 MECHANICAL GENERATOR PLAN

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

NORTH

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SALAS O'BRIEN
MECHANICAL / ELECTRICAL

Dwayne McDonald Gordon 30822
12/12/24

KF
drawn by

DG
checked by

OCTOBER 2024
date

revisions

| | |
|---|---|
| △1 | 11/22/2024 AD 02 |
| △2 | 12/12/2024 AD 03 |

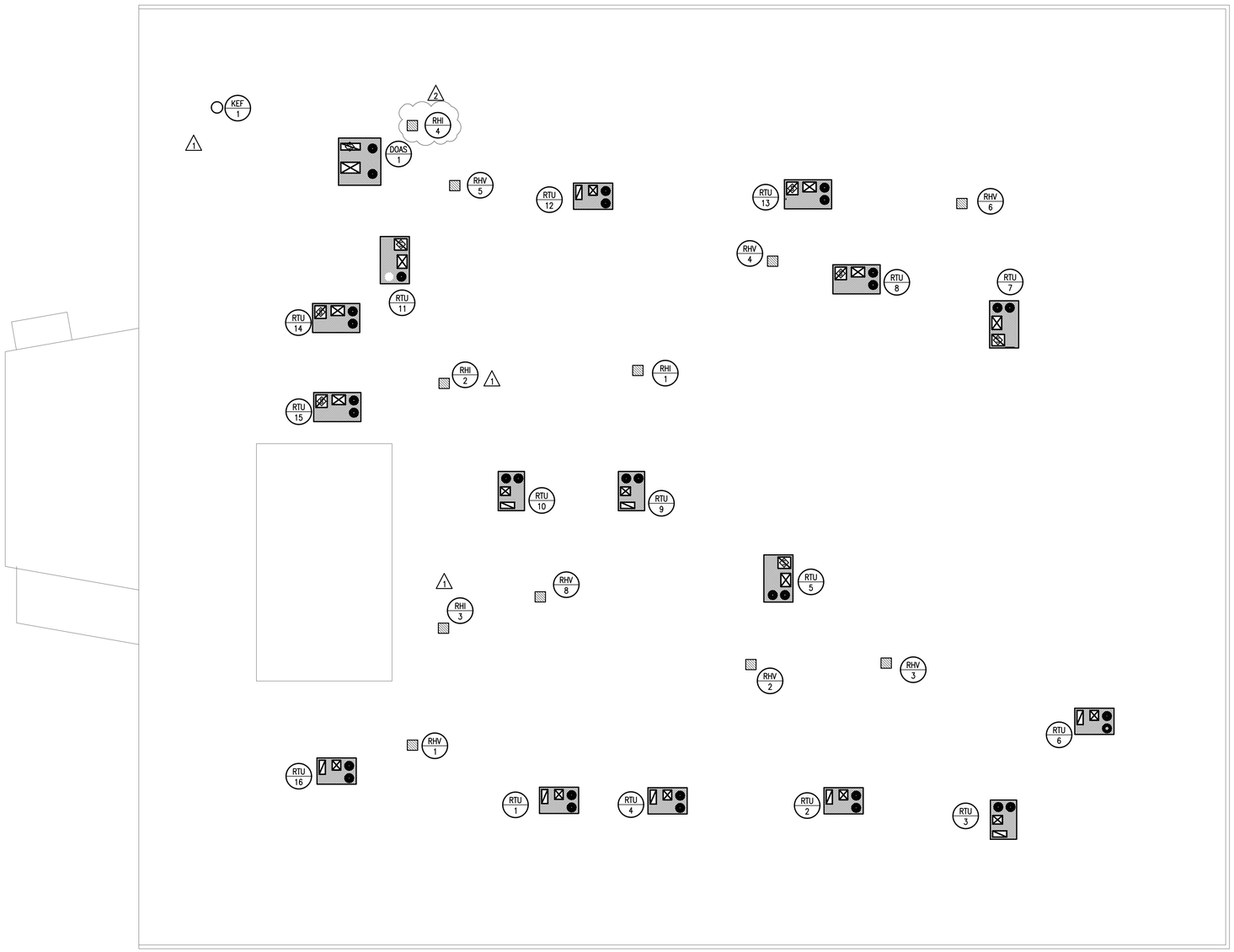
MOORE
PUBLIC SCHOOLS

CHILD CARE FACILITY
201 N. EASTERN AVE.

sheet no:

M101

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




## 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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SALAS O'BRIEN
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PROFESSIONAL ENGINEER
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drawn by

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checked by

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date

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(1) 11/22/2024 AD 02
(2) 12/12/2024 AD 03

MOORE PUBLIC SCHOOLS

CHILD CARE FACILITY
201 N. EASTERN AVE.

sheet no:

M201


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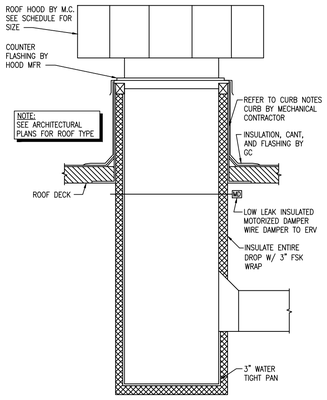
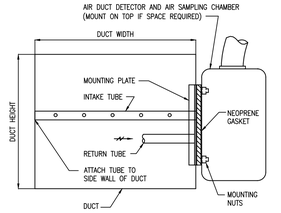
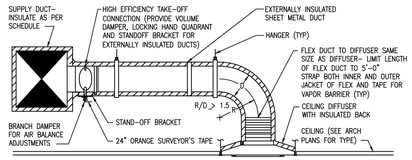



## 5 ROOF HOOD DETAIL
NOT TO SCALE



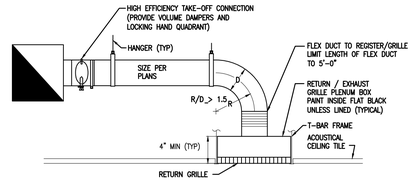

NOTES:
1. SMOKE DETECTOR FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR, AND MOUNTED BY MECHANICAL CONTRACTOR.
2. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
3. PROVIDE ACCESS DOOR AT SAMPLING TUBES.
4. THE TUBE SHALL BE INSTALLED PARALLEL TO LONG DIMENSION OF DUCT.
5. PRODUCT SHALL BE UL555 OR UL555S LISTED.
6. EC SHALL TEST ACCORDING TO UL AND CODES IN THE PRESENCE OF CODE AUTHORITY.

## 4 SMOKE DETECTOR MOUNTING DETAIL
NOT TO SCALE

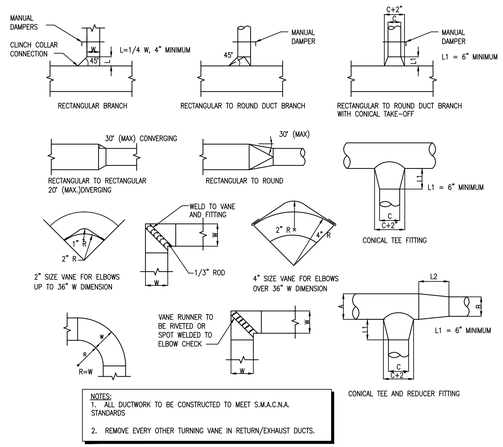



NOTE:
COORDINATE DIFFUSER MOUNTING TYPE WITH CEILING TYPE

## 3 CEILING DIFFUSER DETAIL
NOT TO SCALE

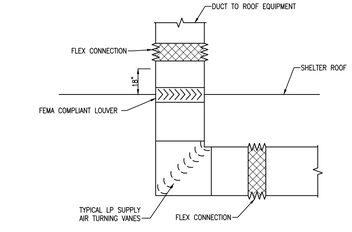



## 2 RETURN / EXHAUST AIR GRILLE PLENUM BOX
NOT TO SCALE

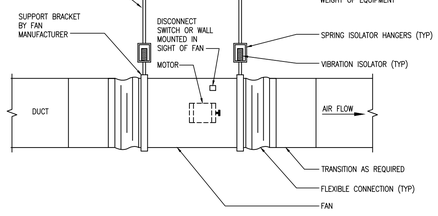



NOTES:
1. ALL DUCTWORK TO BE CONSTRUCTED TO MEET S.M.A.C.N.A. STANDARDS
2. REMOVE EVERY OTHER TURNING VANE IN RETURN/EXHAUST DUCTS.

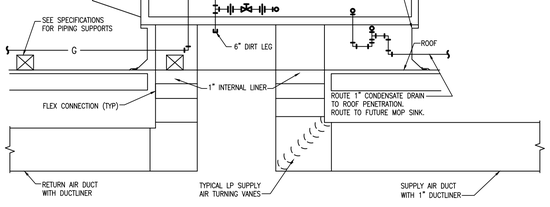
## 1 TYPICAL DUCTWORK DETAILS
NO SCALE



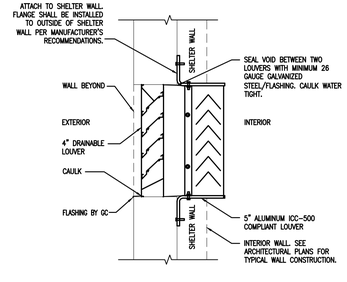

## 8 SAFEROOM DUCT PENETRATION DETAIL
NOT TO SCALE



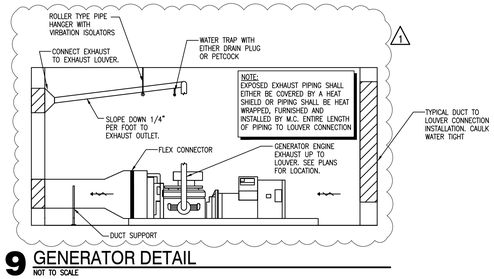

## 7 INLINE FAN DETAIL
NOT TO SCALE




## 6 TYPICAL ROOF TOP UNIT DETAIL
NOT TO SCALE




## 10 LOUVER GENERATOR BUILDING
NOT TO SCALE




## 9 GENERATOR DETAIL
NOT TO SCALE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1 12/12/2024 AD 03

MOORE PUBLIC SCHOOLS

CHILD CARE FACILITY
201 N. EASTERN AVE.

sheet no:

M501


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

## 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 |
| RHI-4 | 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

| | CONNECTED TO | SIZE (IN) WXH | MINIMUM FREE AREA (FT²) | FLANGE | CONSTRUCTION | INCLUDE MOD | MANUFACTURER AND MODEL NUMBER | COMMENTS | NOTES |
|---|---|---|---|---|---|---|---|---|---|
| 1 | GEN ENCLOSURE | 18X18 | 0.71 | YES | ALUMINUM | – | GREENHECK AFL-501 | 5" FEMA RATED LOUVER- PROVIDE ADDITIONAL DRAINABLE LOUVER ( GREENHECK ESD-403) | 1-2 |
| 2 | GEN ENCLOSURE | 48X30 | 4.33 | YES | ALUMINUM | – | GREENHECK AFL-501 | 5" FEMA RATED LOUVER- PROVIDE ADDITIONAL DRAINABLE LOUVER (GREENHECK ESD-403) | 1-2 |
| 3 | GEN ENCLOSURE | 60X72 | 14.98 | YES | ALUMINUM | – | GREENHECK AFL-501 | 5" FEMA RATED LOUVER- PROVIDE ADDITIONAL DRAINABLE LOUVER (GREENHECK 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.

## PACKAGED ROOFTOP GAS/ELECTRIC UNIT SCHEDULE

| RTU | LOCATION | INPUT MBH | OUTPUT MBH | COOLING NOMINAL TONS | AMBIENT TEMP DB/WB | 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 | 104 / 74 | 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 | 104 / 74 | 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 | 104 / 74 | 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 | 104 / 74 | 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 | 104 / 74 | 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 | 104 / 74 | 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 | 104 / 74 | 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 | 104 / 74 | 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 | 104 / 74 | 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 | 104 / 74 | 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 | 104 / 74 | 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 | 104 / 74 | 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 | 104 / 74 | 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 | 104 / 74 | 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 | 104 / 74 | 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 | 104 / 74 | 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.

## 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 |
| DRYER | 160 | 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: | 4885 | | 9870 |

## 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 MAX. PRES. | LOW PRESSURE SEAL A | LOW PRESSURE SEAL B | LOW PRESSURE SEAL C | MED. PRESS MAX PRES. | MED. PRESS SEAL A | HIGH PRESS. MAX PRES. | HIGH PRESS. SEAL A | INSULATION INTERNAL | INSULATION THICKNESS | INSULATION EXTERNAL | INSULATION THICKNESS | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 VOLTAGE & PHASE | ELECTRICAL H.P. | ELECTRICAL FLA/AMPS | ELECTRICAL MCA | ELECTRICAL MOCP | DAMPER BDD OR MOD | DRIVE | FAN TYPE | INTERLOCK/ CONTROL | WEIGHT | MANUFACTURER & MODEL NUMBER | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 |

NOTES: M.C. IS RESPONSIBLE FOR PROVIDING ANY AND ALL NECESSARY DIMENSIONAL, ELECTRICAL, MECHANICAL, AND STRUCTURAL ALTERATIONS NECESSITATED BY PROVIDING ALTERNATE EQUIPMENT.
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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KFC ENGINEERING
STRUCTURAL

SALAS O'BRIEN
MECHANICAL / ELECTRICAL



KF
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DG
checked by

OCTOBER 2024
date

revisions
1 11/22/2024 AD 02
2 12/12/2024 AD 03

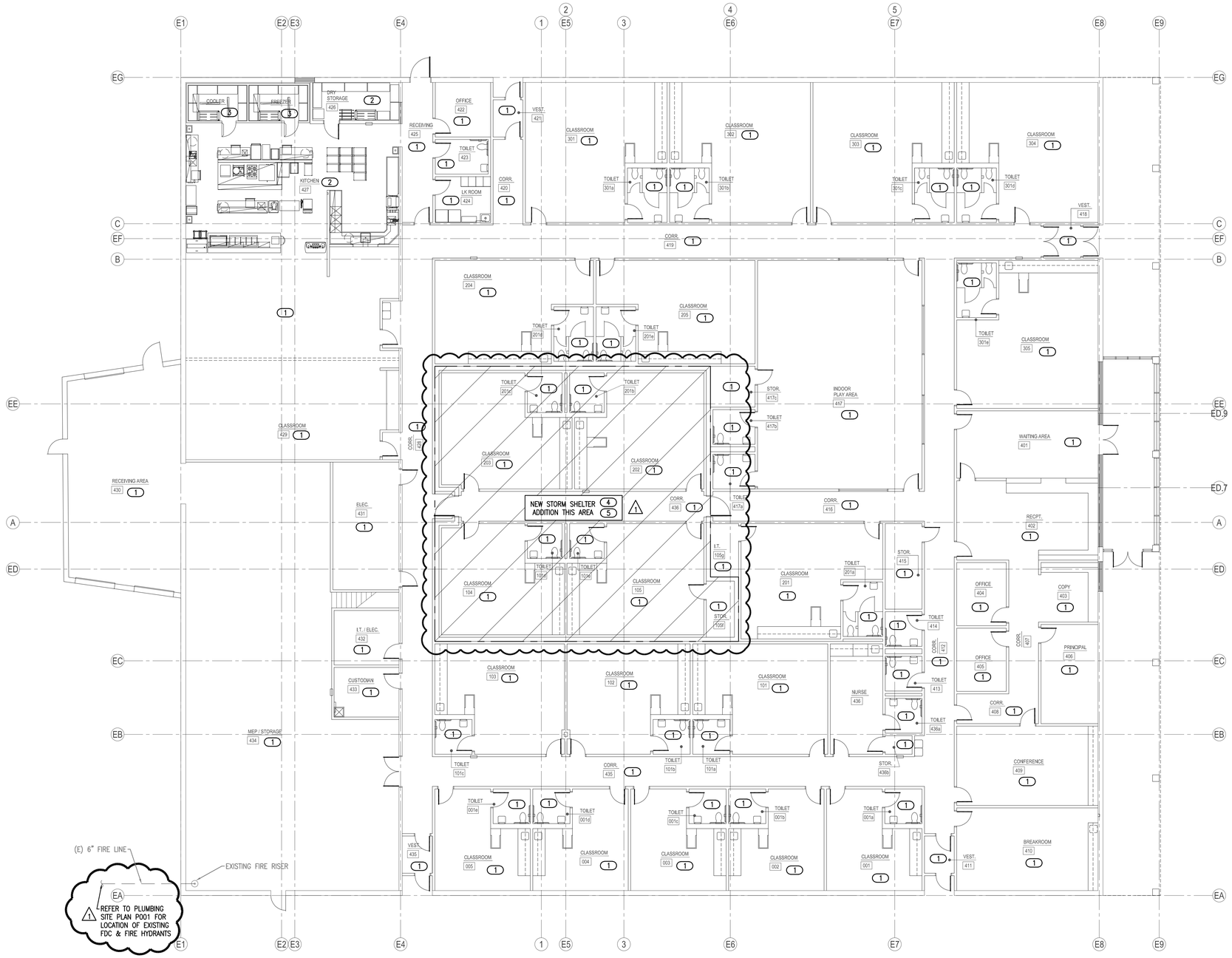
MOORE PUBLIC SCHOOLS

CHILD CARE FACILITY
201 N. EASTERN AVE.

sheet no:

M601


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




# 1 FIRE PROTECTION PLAN

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

NORTH

## FIRE PROTECTION ABBREVIATIONS

| | | | |
|---|---|---|---|
| AG | ABOVE GRADE | FT | FOOT (FEET) |
| ADD | ADDENDUM | GAL | GALLON |
| ADDL | ADDITIONAL | GC | GENERAL CONTRACTOR |
| ADJ | ADJUSTABLE | GPM | GALLONS PER MINUTE |
| AFF | ABOVE FINISH FLOOR | MC | MECHANICAL CONTRACTOR |
| AFG | ABOVE FINISH GRADE | MECH | MECHANICAL |
| ALT | ALTERNATE | MIN | MINIMUM |
| BG | BELOW GRADE | NTS | NOT TO SCALE |
| CI | CAST IRON | PC | PLUMBING CONTRACTOR |
| COL | COLUMN | PLBG | PLUMBING |
| CW | COLD WATER | QTY | QUANTITY |
| DN | DOWN | SCH | SCHEDULE |
| EC | ELECTRICAL CONTRACTOR | SPEC | SPECIFICATIONS |
| FD | FLOOR DRAIN | SS | STAINLESS STEEL |
| FDC | FIRE DEPARTMENT CONNECTION | TEMP | TEMPERATURE |
| FLR | FLOOR | TYP | TYPICAL |
| FP | FIRE PROTECTION | W/ | WITH |

## FIRE PROTECTION SYMBOL LEGEND

| | |
|---|---|
| | SHUTOFF VALVE |
| | CHECK VALVE |
| | DOUBLE CHECK VALVE |
| | END CAP |
| | FIRE DEPARTMENT CONNECTION(FDC) |
| | BELL |

## FIRE PROTECTION PIPING LINETYPES

| LINETYPE | DESCRIPTION |
|---|---|
| | NEW – ABOVE GRADE |
| | NEW – BELOW GRADE |

## FIRE PROTECTION GENERAL NOTES

1. CONTRACTOR SHALL PROVIDE DESIGN FOR SPRINKLER SYSTEM FOR REMODELED EXISTING SPACE.
2. COORDINATE INSTALLATION OF SPRINKLER PIPING AND ALL COMPONENTS WITH OTHER TRADES, OWNER, AND GENERAL CONTRACTOR.
3. FIRE PROTECTION SYSTEM TO COMPLY WITH NFPA 13, INSURANCE CARRIER AND ALL APPLICABLE STATE AND LOCAL CODES.
4. CUTTING OF STRUCTURAL AND/OR ARCHITECTURAL MEMBERS TO BE DONE ONLY WITH THE WRITTEN APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER.
5. PROVIDE MINIMUM 10 PSI SAFETY FACTOR. 1
6. WORKING DRAWINGS INDICATING SPRINKLER HEAD LOCATIONS AND EXPOSED AND CONCEALED PIPING ROUTING SHALL BE PROVIDED TO THE ARCHITECT/ENGINEER PRIOR TO INSTALLATION FOR APPROVAL.
7. FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR ORGANIZING A COORDINATION MEETING WITH OTHER TRADES AND OWNER PRIOR TO INSTALLATION.
8. SYSTEM PIPING LOCATION: WET SYSTEM PIPING SHALL BE INSTALLED AT HIGHEST ELEVATION POSSIBLE. PIPING SHALL BE INSTALLED ABOVE ALL MECHANICAL EQUIPMENT, DUCTWORK, AND ALL PLUMBING SYSTEM PIPING. PROVIDE ADEQUATE CLEARANCE TO MECHANICAL UNITS. FIRE PROTECTION CONTRACTOR SHALL COORDINATE FIRE PROTECTION PIPING PRIOR TO INSTALLATION.
9. PROPERLY TORQUE MECHANICAL TEES TO MANUFACTURER'S RECOMMENDATIONS.
10. FIRE PROTECTION PLANS ARE FOR REFERENCE ONLY. OCCUPANCIES AND AREAS OF PROTECTION NOTED ON THE PLANS SHALL BE CONFIRMED WITH NFPA 13 AND AUTHORITIES HAVING JURISDICTION. THIS CONTRACTOR SHALL COMPLY WITH ANY CODE REQUIREMENTS AS REQUIRED.
11. ALL AREA HORIZONTAL FOUR SQUARE FEET IN SIZE OR ABOVE NEED TO BE SPRINKLED. 1

## FIRE PROTECTION SHEET INDEX



## KEYED NOTES

1. LIGHT HAZARD AREA – REFER TO ARCHITECTURAL PLANS FOR CEILING TYPE AND HEIGHT.
2. ORDINARY HAZARD GROUP 1. REFER TO ARCHITECTURAL PLANS FOR CEILING TYPE AND HEIGHT.
3. ORDINARY HAZARD GROUP 1. COORDINATE WITH FREEZER/COOLER SUPPLIER OR MANUFACTURER FOR SPRINKLER HEAD INSTALLATION. PROVIDE DRY SPRINKLER HEADS IN FREEZER/COOLER.
4. STORM SHELTER – HATCHED AREA – SHELTER WALL PENETRATIONS OF PIPING SHALL HAVE AN OFFSET AND BE PROTECTED WITH DEBRIS GUARD. COORDINATE DEBRIS GUARDS WITH STRUCTURAL CONTRACTOR FOR STORM SHELTER WALL PENETRATIONS OF SPRINKLER PIPING. FIRESEAL PENETRATIONS TO MAINTAIN FIRE RATING. ALL PENETRATIONS 2-1/16 INCH DIAMETER AND LARGER IN/OUT SHELTER REQUIRE FEMA SHROUD. REFER TO STRUCTURAL FOR ALL SHROUD DETAILS. 1
5. ALL SPRINKLER PIPING PENETRATING STORM SHELTER SHALL HAVE AUTOMATIC WATER SHUT-OFF VALVE TO PROTECT AGAINST LEAKAGE INTO SHELTER.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Michael Patrick Reynolds
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12/12/24

KS
drawn by

KP
checked by

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revisions
1 12/12/2024 AD 03

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sheet no:
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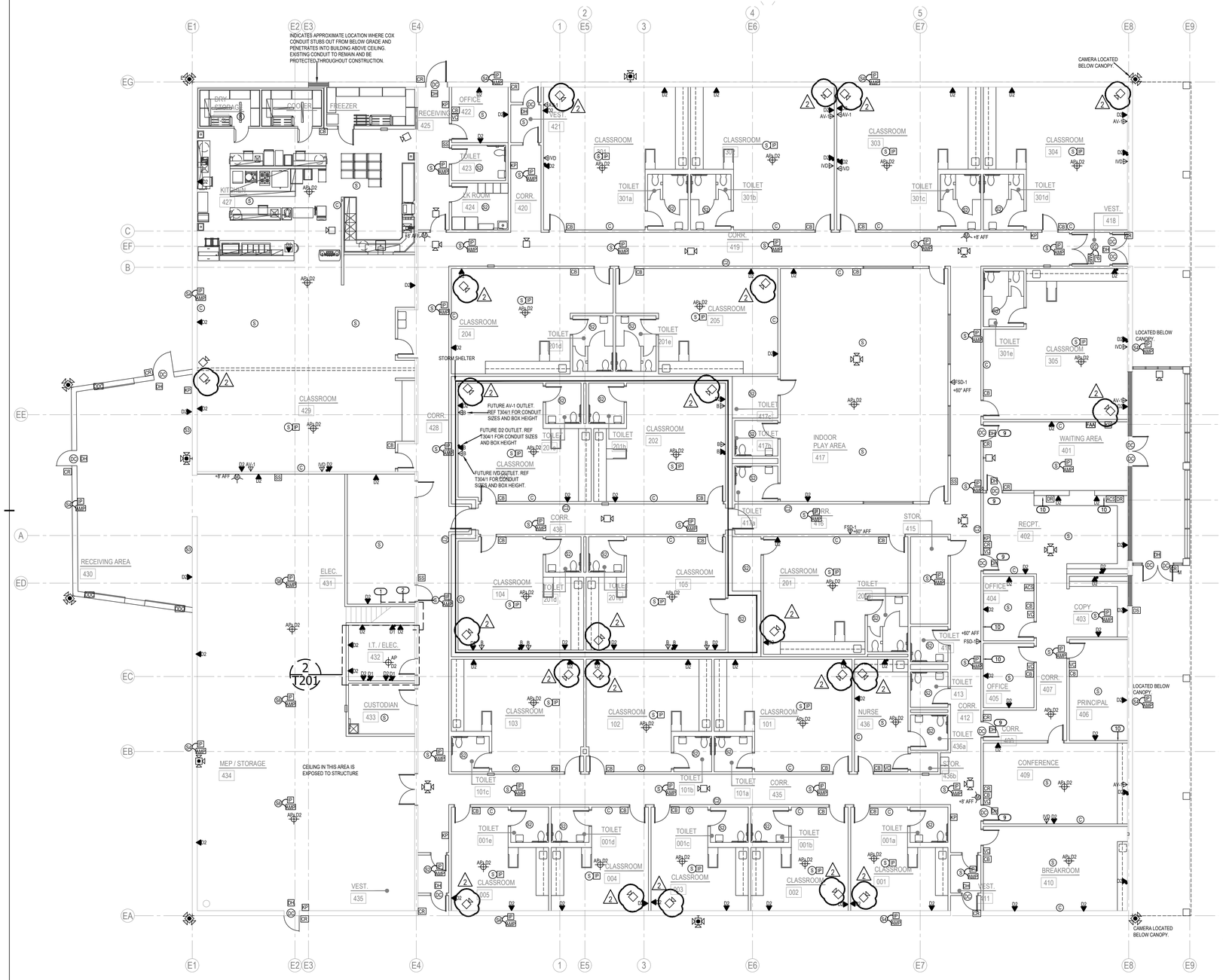
## SAFEROOM NOTE

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"

NORTH

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

SCALE: 1/2" = 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.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MECHANICAL / ELECTRICAL


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OCTOBER 2024
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2 12/12/2024 AD 03
1 11/22/2024 AD 02

MOORE PUBLIC SCHOOLS

CHILD CARE FACILITY
201 N. EASTERN AVE.

sheet no:

T201


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

**4.03 Products Installed but not Supplied Under This Section**

- All conduit and EMT required for Fire cabling pathway in/out of closets and in/out of wall cavities at the work or Conduit for pathways shall have no more than two 90 degree sweeps and no continuous section over EMT 100'.
- All core holes and poke through devices in the floor for the installation of cabling.
- All core holes and EMT sleeves between floors for the routing of cabling.
- Back boxes for the mounting of Devices.
- Drag line or pull string at the back boxes fished through EMT or conduit to the other end for installing Cabling.

**4.04 References**

- NFPA-70 National Electrical Code 2008 edition
- NFPA-72 National Fire Alarm Code
- UL 1666 - Standard for Safety of Flame Propagation Height
- NFPA 262 - Flame Travel and Smoke of Wires and Cables
- Local Authority Having Jurisdiction

**4.05 Definitions**

AWG - American Wire Gauge

BICSI - Building Industry Consulting Service International

EIA - Electronics Industry Alliance

FCC - Federal Communications Commission

NECA - National Electrical Contractors Association

NFPA - National Fire Protection Agency

UL - Underwriters Laboratory

**4.06 Delivery, Storage, and Protection**

- Contractor shall ensure that materials delivery to work area shall be coordinated with construction site manager responsible for materials distribution to all trades.
- Contractor is responsible for all materials, tools and vehicles left on the job site.
- Follow Manufacturer's recommendations for handling of materials.

**4.07 Project Conditions**

**4.07.1 Environmental Requirements**

- Contractor shall ensure that any pollutants produced during the Work are disposed off according to local, state or national regulations. Follow the most stringent guidelines.
- It is preferred that the Contractor recycle any used or un-used components during the course of the construction project.

**4.07.2 Field Measurements**

- Contractor shall coordinate with electrical engineer on project that the main electrical service ground has a resistance to earth of less than 5 ohms.
- Contractor shall ensure that all field testers have been calibrated from the Manufacturer within 1 year.
- All field test results will be documented and submitted to Moore Public Schools, Technology Department.

**4.08 Sequencing**

- Contractor shall coordinate with Owner's project manager on sequencing of various trades and construction teams for the lifecycle of the project.

**4.09 Scheduling**

- Contractor shall provide a detailed construction schedule with hard dates for completion of roughing in cables, terminations and testing once scheduling sequence has been determined to the Owner's Project Manager.

**4.10 Warranty**

- Contractor shall provide a 1 year parts and labor warranty against defective workmanship and/or system component failure. ( 1 year warranty shall begin at job completion)

**4.11 Source Quality Control**

- Materials shall be purchased from Distributors authorized by system Manufacturers to sell new and unused components.

**Part 5 -**

**5.01 Field Quality Control**

- Contractor shall make available all ceiling and termination work for inspection by Manufacturer's representative or owner's representative.
- Contractor shall replace all defective components.

**5.02 Adjusting**

- No additional work outside of the contract scope of work shall be completed without the approval of the Owner or Owner's representative.

**5.03 Cleaning**

- Contractor shall sweep and mop the floors of all equipment rooms or connection point closets prior to turnover to the Owner.

**5.04 Protection**

- It is the responsibility of the Contractor to ensure equipment is protected from dust and water during the project with appropriate materials.
- Remove all protective covers and protective materials from equipment prior to turnover to Owner.

**5.05 Schedules**

- Coordinate work with Owner's project manager and follow scheduling sequence as established by Owner's project manager.
- It is recommended that the Contractor schedule closely with any other systems contractor to ensure turnover date is met.
- Contractor bidding will work closely with the electrical and or masonry contractors to ensure conduit, back boxes, door frame access conduit, etc. are in the proper locations and accessible.

End of Section

## Moore Public Schools Fire System Specifications SK & SD Protocol

**Part 1 - General**

***2.01 Manufacturers***

- Fire System Manufacturer shall be Silent Knight. (No Substitutions)
- Notification appliance Manufacturer shall be System Sensor. (No Substitutions)
- Device Manufacture shall be as specified in equipment description. (No Substitutions)
- Cable Manufacturer shall be Genesis. (Or Equivalent)

***1.03Fire Systems Equipment Description***

- **NOTE:** Contractor shall use SK Protocol devices on all new installations except when the existing system has SD protocol devices connected. In these instances, SD protocol devices shall be used. Contractor shall not combine SD & SK protocol devices to one system.
- Fire alarm control shall be Silent Knight Model # 5820 or 6820. (No Substitutions)
- Fire alarm distributed power module NAC Expansion shall be Silent Knight SK-PS6 / SK-PS10 or Fire-Lite Model #'s FL-PS6 / FL-PS10. (No Substitutions)
- Fire alarm intelligent power supply shall be Silent Knight Model # 5895XL. (No Substitutions)
  NOTE: The 5895XL NAC circuits will not sync with the main control panels NAC circuits. If new NAC circuit synchronization is required with existing NAC circuits, use the SK-PS6/FL-PS6 or SK-PS10/FL-PS10
- Fire alarm remote Annunciator shall be Silent Knight Model # 5860 (Grey) and surface mount trim ring 5860TG (Grey) shall be used if surface mounted. (No Substitutions)
- Fire Alarm signaling line circuit expander shall be Silent Knight Model # 5815XL for SD protocol devices & 6815 for SK protocol devices. (No Substitutions)

**SK Protocol Devices Shall Be**

- Fire alarm addressable manual pull station shall be Silent Knight Model # SK-PULL-DA. (No Substitutions)
- Fire alarm addressable photoelectric smoke detector shall be Silent Knight Model # SK-PHOTO-W. (No Substitutions)
- Fire alarm addressable heat detector shall be Silent Knight Model # SK-HEAT-W. (No Substitutions)
- Fire alarm base shall be Silent Knight Model # B300-6. (No Substitutions)
- Smoke Detectors in areas that require a CO Detector shall be SK-FIRE-CO-W. (No Substitutions)
- Fire alarm addressable input module shall be Silent Knight Model # SK-MONITOR or SK-MONITOR-2. (No Substitutions)
- Fire alarm addressable relay module shall be a Silent Knight Model # SK-RELAY. (No Substitutions)
- Fire alarm SLC line isolator shall be Silent Knight Model # SK-ISO. (No Substitutions)
- Fire alarm Duct detectors and Duct Detector Remote Test Stations shall be Silent Knight Model #'s SK-DUCT and RTS151KEY. If a Form-C relay is required, please add an SK-RELAY. (No Substitutions)

**SD Protocol Devices Shall Be**

- Fire alarm addressable manual pull station shall be Silent Knight Model # SD500-PSDA. (No Substitutions)
- Fire alarm addressable photoelectric smoke detector shall be Silent Knight Model # SD505-PHOTO. (No Substitutions)
- Fire alarm addressable heat detector shall be Silent Knight Model # SD505-HEAT. (No Substitutions)
- Fire alarm base for Silent Knight Model #'s SD505-PHOTO and SD505-HEAT shall be Silent Knight Model # SD505-6AB. (No Substitutions)
- CO Detector shall be System Sensor Model # CO1224T. (No Substitutions) An SD500-AIM shall be installed on each CO1224T and shall be accessible and visible from the finished floor.
- Fire alarm addressable input module shall be Silent Knight Model # SD500-AIM. (No Substitutions)
- Fire alarm addressable relay module shall be a Silent Knight Model # SD500-ARM. (No Substitutions)
- Fire alarm SLC line isolator shall be Silent Knight Model # SD500-LIM. (No Substitutions)
- Fire alarm Duct detectors and Duct Detector Remote Test Stations shall be Silent Knight Model #'s SD505-DUCTR and SD505-DTS-K. (No Substitutions) Remote test station shall be accessible and visible from the finished floor.
- Fire alarm Horn / Strobe signaling device shall be System Sensor Model # P2WL. (Model PC2WL can be substituted if mounted on non-stainable ceiling tile. No other Substitutions)
- Fire alarm Strobe signaling device shall be System Sensor Model # SWL. (Model SCWL can be substituted if mounted on non-stainable ceiling tile. No other Substitutions)
- Fire alarm strobe synch module shall be System Sensor Model # MDL3. (Not needed on version 9 panels or newer) (No Substitutions)
- Fire alarm Outdoor strobe signaling device shall be System Sensor Model # P2RK. (No Substitutions)
- Fire alarm Speaker / Strobe signaling device shall be System Sensor Model # SPSWL. (Model SPSCWL can be substituted if mounted on non-stainable ceiling tile. No other Substitutions)
- Fire alarm Speaker signaling device shall be System Sensor Model # SPWL. (No Substitutions)
- Fire alarm 50-watt Voice Evac system shall be as needed Silent Knight SKE-450 (Single Zone), SKE-450-ZN4 (4 Zone) or SKE-450-ZN6 (6 Zone). (No Substitutions)

***1.01Systems Installation***

- All fire alarm junctions and or splices shall be soldered and insulated.
- All Ceiling mounted devices shall be mounted on non-stainable ceiling tiles.
- All circuits and wiring shall be labeled at all terminating ends.
- All fire system wiring shall be RED in color and non-shielded.
- All devices shall be mounted according to the manufacture's specifications.
- All devices shall be properly adjusted and tested prior to job completion.
- All fire pulls shall be dual action.
- All Initiating Devices shall be labeled with their corresponding module and point number. Smoke detector label shall be on smoke detector and smoke detector base and be clearly visible from the finished floor.
- Each Initiating Device Circuits (IDC) shall have Line Isolator Modules installed at the SLC Head End.
- All Initiating Device Circuits (IDC) shall be wired Class B (NFPA Style B).
- All Initiating Device Circuits (IDC) shall be wired with minimum 18 AWG gauge red **NON-Shielded cable**.
- All duct detectors shall be connected to fire system and shall have remote test stations installed accessible and visible from the finished floor. They shall be labeled with their corresponding module and point number.
- All duct detector ARM / AIM shall be installed adjacent to the remote test stations and shall be accessible and visible from the finished floor. They shall be labeled with their corresponding module and point number. (ARM/AIM should not be needed when using SD505-DUCTR duct det.)
- Each CO 1224T detectors shall have an SD500 AIM installed (No doubling). All CO1224T & SD500 AIM shall be labeled with their corresponding module and point number and shall be accessible and visible from the finished floor.
- All modules shall have their corresponding module number.
- All notification devices shall be wall mounted where possible. Where wire is exposed decorative wire molding shall be installed from the ceiling to the device. If ceiling mount devices are used, they shall be mounted on a non-stainable ceiling tile.
- All notification devices shall be labeled with their corresponding module, circuit number and device number. Label shall be on the base and be clearly visible from the finished floor. EOL Device shall be labeled as such.
- All horn / strobes and strobes shall be synchronized.
- All Notification Appliance Circuits (NAC) shall be wired Class B (NFPA Style Y).
- All Notification Appliance Circuits (NAC) shall be wired with minimum 16 AWG gauge red **NON-Shielded** cable.
- Protective grommets shall be installed on all conduits to protect wire.
- All SBUS and SLC circuits shall be wired with red **NON-shielded cable.**
- All wire shall be run in J hooks above ceiling with a minimum space of 6" from ceiling deck. All wire shall be in separate pathways 6" from other system wiring. No wire ties allowed. No wire shall be run between the red iron and roof deck.
- Main control panel shall have a CAT 6 cable ran between the main control and the phone company DMARC for monitoring purposes.
- All wire ran between building shall be in conduit and shall be **Non-shielded** direct burial cable. It shall be a minimum of 4 conductor 16 AWG copper.
- Installer shall have a commercial fire technician on the job site at all times during the installation.
- Installer shall supply the electrical and or masonry contractors with specialty back boxes such as remote annunciator recessed back boxes etc. and coordinate with them to ensure that all necessary conduits, back boxes, etc. are installed in the proper locations.
- Follow and adhere to installation practices specified by the applicable NFPA 72 standards.
- Follow and adhere to installation practices specified by NFPA-70 National Electric Code, Edition 2008.
- Follow and adhere to installation practices specified by the Manufacturers.

***1.02 Products Installed but not Supplied Under This Section***

- All conduit and EMT required for Fire cabling pathway in/out of closets and in/out of wall cavities at the work area. EMT or Conduit for pathways shall have no more than two 90-degree sweeps and no continuous section over 100'.
- All core holes and poke through devices in the floor for the installation of Fire cabling.
- All core holes and EMT sleeves between floors for the routing of Fire cabling.
- Back boxes for the mounting of Fire Devices.
- Drag line or pull string at the back boxes fished through EMT or conduit to the other end for installing Fire Cabling.

***1.03Quality Assurance***

***1.03.01 Qualifications***

- Install all components as directed by Manufacturer's installation guidelines.
- All products shall bear the mark of UL or ETL for performance level.
- System installation shall meet all applicable Local/State codes and safety requirements where project is located.
- All products shall be new and un-used in original packaging.

***1.03.02 Bidder/Installer Qualifications***

- Bidding contractor shall be a local licensed Commercial Fire Alarm Company with licensed Commercial Fire Alarm technician(s) on staff.
- Bidding contractor shall have a minimum of one year experience installing Silent Knight Addressable fire panels.
- Bidding contractor shall have a minimum of 5 years experience installing commercial fire alarms.
- Bidding contractor shall be able to provide insurance at the request of the owner.
- Bidding contractor shall have a commercial fire technician on the job site at all times during the installation.

***1.04Sequencing***

- Contractor shall coordinate with Owner's project manager on sequencing of various trades and construction teams for the lifecycle of the project.

***1.05 Scheduling***

- Contractor shall provide a detailed construction schedule with hard dates for completion of roughing in cables, terminations and testing once scheduling sequence has been determined to the Owner's Project Manager.

***1.06 Warranty***

- Contractor shall provide a 1-year parts and labor warranty against defective workmanship and/or system component failure. (1-year warranty shall begin at job completion)

**Part 2 - Products**

***2.02 Source Quality Control***

- Materials shall be purchased from Distributors authorized by system Manufacturers to sell new and unused components.

**Part 3 -**

***3.01 Field Quality Control***

- Contractor shall make available all ceiling and termination work for inspection by Manufacturer's representative or owner's representative.
- Contractor shall replace all defective components.

***3.02 Adjusting***

- No additional work outside of the contract scope of work shall be completed without the approval of the Owner or Owner's representative.

***3.03 Protection***

- It is the responsibility of the Contractor to ensure equipment is protected from dust and water during the project with appropriate materials.
- Remove all protective covers and protective materials from equipment prior to turnover to Owner.

**End of Section**

***1.04 Submittals***

***1.04.01 Prior to installation***

- Show compete map of system design for approval by Owner.

***1.04.02 Prior to final acceptance***

- Provide a soft CAD copy As-Built showing layout of panel, initiating devices, notification devices and all mounted equipment upon Substantial Completion.
- Ensure all warranties specify that the Owner is entitled to all rights guaranteed by the warranty for various components.

## Fire System Installation Completion Check List

**Part 1 - General**

***1.01 Section Includes***

- Fire System Completion Check List

***1.02 Completion Check List***

- A map of the entire system showing device numbers and wire routes has been left inside the main control panel and a copy has been given to Jack Phillips with MPS.
- All panel programming has been checked and is correct.
- Panel(s) has been tested for proper operation.
- All zones have been tested to verify proper description at keypad.
- All zones have been tested to verify proper reporting to the monitoring station.
- All points have been tested to verify proper description at the keypad.
- All horn/strobes and strobes have been tested for proper operation.
- All smoke detectors have been tested and dust covers removed.
- All devices have been tested for proper operation.
- All cabinets are labeled on the outside with module numbers and point numbers.
- All cabinets are labeled on the inside with module numbers by the corresponding module and point descriptions.
- The monitoring station has the correct account information such as call list, zone descriptions, etc.

**End of Section**

IP camera Specifications

**Moore Public Schools**
**IP camera Specifications**

**IP CAMERA MANUFACTURE is AVIGILON (NO SUBSTITUTIONS).**

**AVIGILON EQUIPMENT**
**INDOOR DOME SINGLE HEAD CAMERA REQUIRED EQUIPMENT LIST**
4.0C-H5A-D1-IR
ACC7-ENT LICENSE - 1 per camera
INDOOR MULTI-HEAD 3 HEAD CAMERA REQUIRED EQUIPMENT LIST
9C-H4A-3MH-180 (3x3MP)
POE-INJ2-60W-NA Power Injector
ACC7-ENT LICENSE - 1 per camera
H4AMH-AD-CEIL1
H4AMH-DC-COVR1
INDOOR MULTI-HEAD 4 HEAD CAMERA REQUIRED EQUIPMENT LIST
12C-H4A-3MH-360 (4x3MP)
POE-INJ2-60W-NA Power Injector
ACC7-ENT LICENSE - 1 per camera
H4AMH-AD-CEIL1
H4AMH-DC-COVR1
OUTDOOR DOME **SINGLE HEAD CAMERA REQUIRED EQUIPMENT LIST**
6.0C-H5A-DO1-IR
ACC7-ENT LICENSE - 1 per camera
OUTDOOR MULTI-HEAD 3 HEAD CAMERA CORNER MOUNT REQUIRED EQUIPMENT LIST
15C-H4A-3MH-270 (3x5MP)
POE-INJ2-60W-NA Power Injector
ACC7-ENT LICENSE - 1 per camera
H4AMH-AD-PEND1
H4AMH-DO-COVR1
H4AMH-AD-IRIL1
H4-MT-CRNR1
OUTDOOR MULTI-HEAD 3 HEAD CAMERA WALL MOUNT REQUIRED EQUIPMENT LIST
15C-H4A-3MH-180 (3x5MP)
POE-INJ2-60W-NA Power Injector
ACC7-ENT LICENSE - 1 per camera
H4AMH-AD-PEND1
H4AMH-DO-COVR1
H4AMH-AD-IRIL1
2
INDOOR **CAMERA LOCATED IN CLASSROOMS REQUIRED EQUIPMENT LIST**
3.0C-H65L-D1-IR
ACC7-ENT LICENSE - 1 per camera

CAMERA SERVER INFORMATION, CONTRACTOR TO PROVIDE THE FOLLOWING:
1 - Dell Server part# NVR6-PRM-FORM-D-72TB-S22
1 - SFP fiber connector, part# NVR6-AINVR2-FORM-D-SFPPLUS-SR

**INSTALLATION**

- Install cameras on adjacent walls were possible. If it must be mounted on ceiling, it shall be on a water-resistant non-stainable ceiling tile. **MPS to have final determination of camera location and field of view) (Call Jack Phillips for final location and view phone 473-5225)**
- Any cameras installed on ceiling shall be mounted on a water-resistant non-stainable ceiling tile. (BIDDING CONTRACTOR SHALL PROVIDE NON-STAINABLE TILE)
- Each installed camera needs a camera license.
- All network drops shall be connected with patch cords to a switch at each rack location.
- No Substitutions.

**Horizontal Cabling**

***Requirements***

- See MPS Structured Cabling Specifications for camera network cabling installation, labelling and testing requirements.

***Warranty***

- Communications Contractor shall provide a 1 year parts and labor warranty against defective workmanship and/or system component failure.
- Communications Contractor shall execute a Lifetime Applications Assurance Warranty for parts and labor to support stated applications from the connectivity Manufacturer.

End of Section

**Audio Visual Systems for Instructional Spaces Specifications**

**Part 1 - General**

**1.01 Instructional Spaces**

- Reference technology drawings and detail sheet T504 for classroom configuration and part numbers.

**1.02 Special Spaces**

- Reference technology drawings and one line diagrams.

**1.03 Flat Panel Displays**

- All non interactive Flat Panel displays shall be 43" Samsung BE Series.
- Bio Lab 37 displays shall be ceiling mounted.
- Career Tech 12 and Career Tech 15 displays shall be wall mounted 55" AFF to center of display.

End of Section

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MOORE PUBLIC SCHOOLS

CHILD CARE FACILITY
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sheet no:

T403

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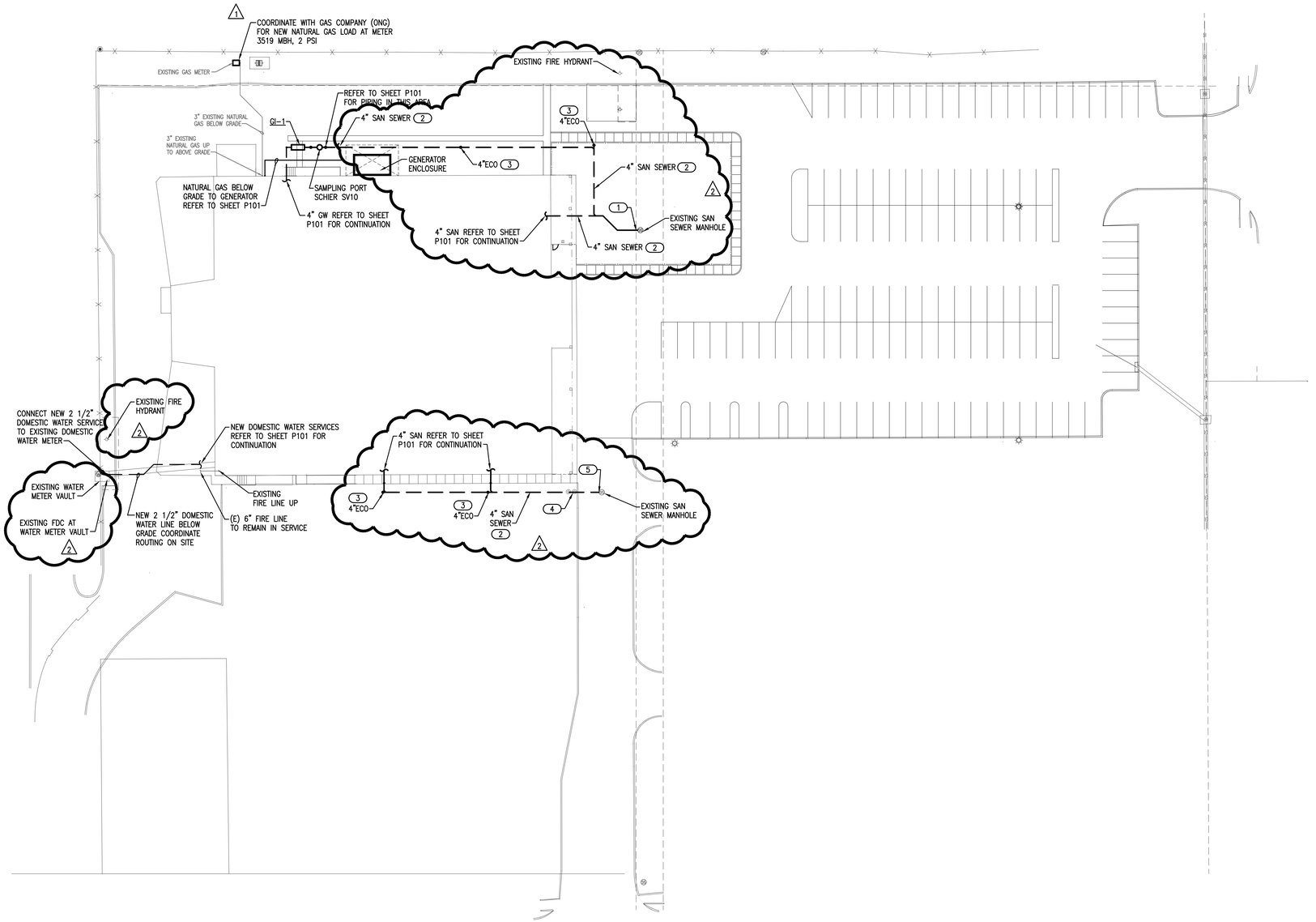
Expiration Date : 6/30/2025
Salas O'Brien Project Number: 2450-70304-00




## 1 PLUMBING SITE PLAN

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

NORTH

## 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.

## KEYED NOTES

1. SITE CONTRACTOR TO FIELD VERIFY AND CONNECT NEW 4" SANITARY SEWER TO EXISTING MANHOLE. APPROXIMATE INVERT ELEVATION OF 7.67 FEET.
2. PLUMBING CONTRACTOR TO COORDINATE WITH SITE CONTRACTOR FOR INSTALLING NEW BELOW GRADE SANITARY SEWER PIPING.
3. PLUMBING CONTRACTOR TO COORDINATE WITH SITE CONTRACTOR FOR INSTALLING NEW EXTERIOR SEWER CLEANOUT.
4. COORDINATE WITH SITE CONTRACTOR FOR REMOVAL OF EXISTING GREASE WASTE PIPING, GREASE INTERCEPTOR, CLEANOUTS AND SEWER PIPING TO MANHOLE.
5. SITE CONTRACTOR TO FIELD VERIFY AND CONNECT NEW 4" SANITARY SEWER TO EXISTING MANHOLE. APPROXIMATE INVERT ELEVATION OF 7.69 FEET.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Expiration Date : 6/30/2025
Salas O'Brien Project Number: 2450-70304-00

## 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 WITH FLEXIBLE CONNECTION TO GENERATOR. (355 MBH, 10" W.C. PRESSURE). COORDINATE CONNECTION WITH GENERATOR SUPPLIER ON SITE. PRESSURE REGULATOR LOCATED 10'-0" FROM GENERATOR CONNECTION.

(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) WITH FLEXIBLE CONNECTION TO GENERATOR. COORDINATE CONNECTION WITH GENERATOR SUPPLIER ON SITE. PRESSURE REGULATOR LOCATED 10'-0" FROM GENERATOR CONNECTION.

## 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 9/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"

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KFC ENGINEERING
STRUCTURAL

SALAS O'BRIEN
MECHANICAL / ELECTRICAL


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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
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Salas O'Brien Registration: CA# 7058
Expiration Date : 6/30/2025
Salas O'Brien Project Number: 2450-70304-00

## LIGHT FIXTURE SCHEDULE

| TYPE | SYMBOL | DESCRIPTION | MANUFACTURER | REFERENCE CATALOG # |
|---|---|---|---|---|
| A1 | | 2X4 LED FLAT PANEL.<br>26W, 4000 LUMENS, 3500K CCT.<br>0-10V DIMMING. | LITHONIA | CPX 2X4 ALO8 80CRI SWW7 SWL MVOLT |
| A1E | | 2X4 LED FLAT PANEL.<br>26W, 4000 LUMENS, 3500K CCT.<br>0-10V DIMMING.<br>PROVIDE WITH UL924 DEVICE | LITHONIA | CPX 2X4 ALO8 80CRI SWW7 SWL MVOLT |
| A2 | | 2X4 LED FLAT PANEL.<br>36W, 5000 LUMENS, 3500K CCT.<br>0-10V DIMMING. | LITHONIA | CPX 2X4 ALO8 80CRI SWW7 SWL MVOLT |
| A2E | | 2X4 LED FLAT PANEL.<br>36W, 5000 LUMENS, 3500K CCT.<br>0-10V DIMMING.<br>PROVIDE WITH UL924 DEVICE. | LITHONIA | CPX 2X4 ALO8 80CRI SWW7 SWL MVOLT |
| A3 | | 2X4 LED FLAT PANEL.<br>45W, 6000 LUMENS, 3500K CCT.<br>0-10V DIMMING. | LITHONIA | CPX 2X4 ALO8 80CRI SWW7 SWL MVOLT |
| A3E | | 2X4 LED FLAT PANEL.<br>45W, 6000 LUMENS, 3500K CCT.<br>0-10V DIMMING.<br>PROVIDE WITH UL924 DEVICE. | LITHONIA | CPX 2X4 ALO8 80CRI SWW7 SWL MVOLT |
| A4 | | 2X2 LED FLAT PANEL.<br>35W, 4000 LUMENS, 3500K CCT.<br>0-10V DIMMING. | LITHONIA | CPX 2X2 ALO7 80CRI SWW7 SWL MVOLT |
| C | | 6" LED RECESSED LED DOWNLIGHT.<br>13W, 1000 LUMEN, 3500K CCT.<br>0-10V DIMMING. | LITHONIA | LBR6 NCH ALO2 SWW1 AR LSS WD MVOLT UGZ |
| CE | | 6" LED RECESSED LED DOWNLIGHT.<br>13W, 1000 LUMEN, 3500K CCT.<br>0-10V DIMMING.<br>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,<br>PROVIDE WITH UL924 DEVICE. | LIFE SAFETY LIGHTING | LSXDC 3 R A A EM SDT |
| L | | 2" X 4' LED EXTERIOR FIXTURE<br>1028 LUMENS/FT, 4000K CCT.<br>SURFACE MOUNT | A-LIGHT | LIN 3 SP M4 LH 40 U HE F X D |
| LE | | 2" X 4' LED EXTERIOR FIXTURE<br>1028 LUMENS/FT, 4000K CCT.<br>SURFACE MOUNT<br>PROVIDE WITH UL924 DEVICE. | A-LIGHT | LIN 3 SP M4 LH 40 U HE F X D EC |
| P2 | | 6' CIRCULAR LED PENDANT.<br>156W, 13,000 LUMENS, 3500K CCT.<br>0-10V DIMMING. | DELRAY | UCDC6 W35 SR D |
| P2E | | 6' CIRCULAR LED PENDANT.<br>156W, 13,000 LUMENS, 3500K CCT.<br>0-10V DIMMING.<br>PROVIDE WITH UL924 DEVICE. | DELRAY | UCDC6 W35 SR D |
| R1 | | SINGLE HEAD PARKING LOT FIXTURE, 7-PIN RECEPTACLE CONTROL<br>187W, 25,000 LUMENS, 4000K CCT. | LITHONIA | RSX2-LED-P4-40K-R3-20BV-RPA-PER7-DDBXD-DLL127F 1.5JU |
| R2 | | DOUBLE HEAD PARKING LOT FIXTURE, 7-PIN RECEPTACLE CONTROL<br>(2) 187W, 25,000 LUMENS, 4000K CCT. | LITHONIA | RSX2-LED-P4-40K-R3-20BV-RPA-PER7-DDBXD-DLL127F 1.5JU |
| R2-P | | PARKING LOT POLE | LITHONIA | RTS-25'-7-OF-DM28AS-DDBXD |
| S | | 4" LED LENSED STRIP FIXTURE.<br>35W, 5000 LUMENS, 4000K CCT.<br>0-10V DIMMING. | LITHONIA | CSS L48 ALO3 MVOLT SWW3 80CRI |
| SE | | 4" LED LENSED STRIP FIXTURE.<br>35W, 5000 LUMENS, 4000K CCT.<br>0-10V DIMMING.<br>PROVIDE WITH UL924 DEVICE. | LITHONIA | CSS L48 ALO3 MVOLT SWW3 80CRI |
| T | | 4" LED VAPOR TIGHT STRIP FIXTURE.<br>42W, 5000 LUMENS, 4000K CCT.<br>0-10V DIMMING. | LITHONIA | CSVT L48 ALO3 MVOLT SWW3 80CRI |
| TE | | 4" LED VAPOR TIGHT STRIP FIXTURE.<br>42W, 5000 LUMENS, 4000K CCT.<br>0-10V DIMMING.<br>PROVIDE WITH UL924 DEVICE. | LITHONIA | CSVT L48 ALO3 MVOLT SWW3 80CRI |
| V | | 2' LED VANITY FIXTURE.<br>9W, 300 LUMENS/FT DIRECT AND INDIRECT, 3500K CCT.<br>0-10V DIMMING. | MARK LIGHTING | S2WID LLP 2FT MSL2 80CRI 35K 300LMF I80 135K 1300LMF AS SCT MIN10 FL MVOLT WHTT ZT |
| W1E | | 2400 LUMEN, 4000K CT, LED WALL PACK<br>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<br>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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KFC ENGINEERING
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MECHANICAL / ELECTRICAL



DWG
drawn by

TVO
checked by

OCTOBER 2024
date

revisions
1 11/22/2024 AD 02
2 12/12/2024 AD 03

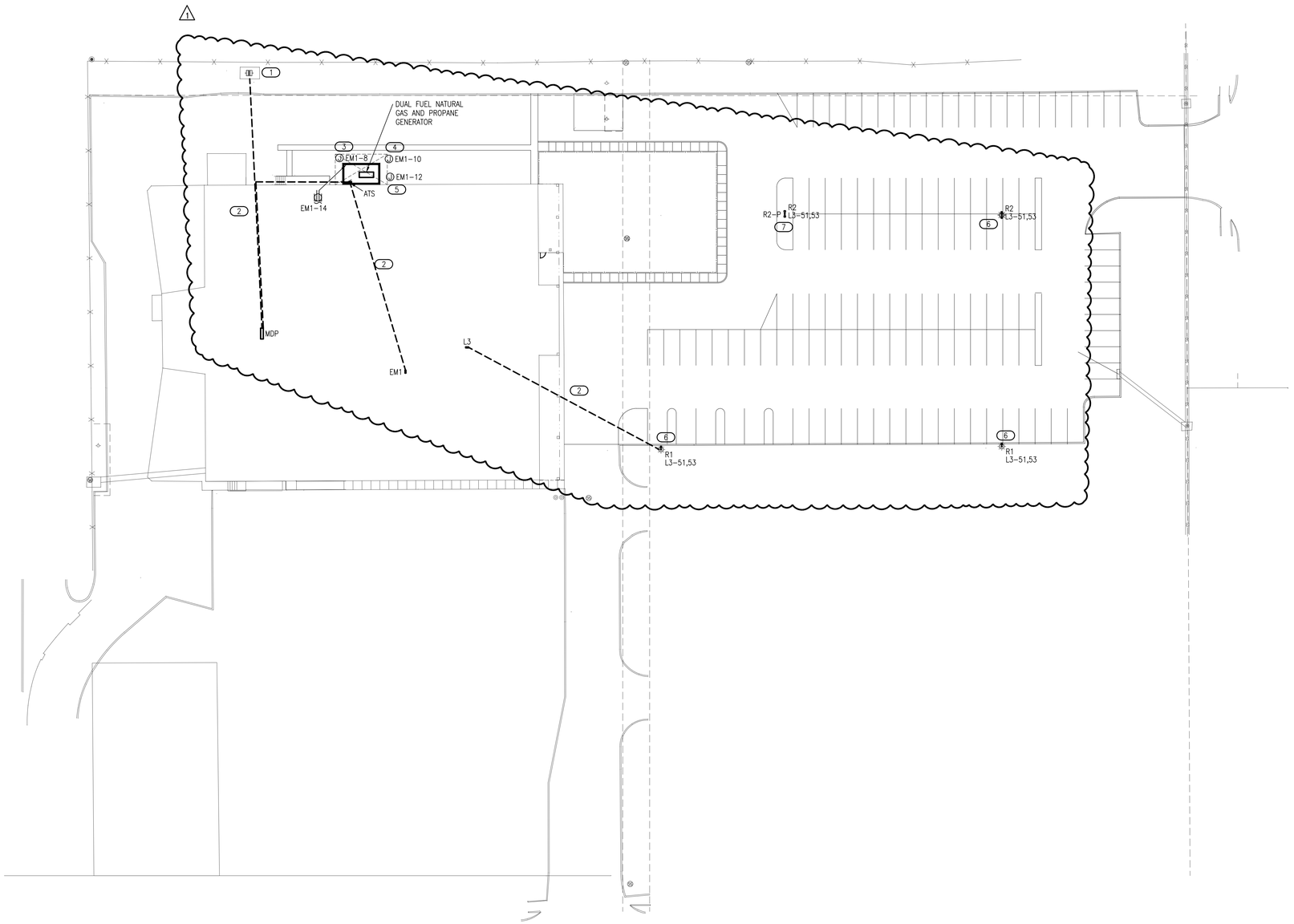
MOORE PUBLIC SCHOOLS

CHILD CARE FACILITY
201 N. EASTERN AVE.

sheet no:

E000


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




## SITE GENERAL NOTES

1. COORDINATE EXACT LOCATIONS OF DEVICES SHOWN WITH OTHER EQUIPMENT.
2. PROVIDE (2) ELECTRONIC TIMERS WITH INTERGRAL ASTRONOMICAL TIMECLOCK AND PHOTOCELL INPUT. LOCATE PHOTOCELL WITH CLEAR VIEW OF NOTHERN SKY AND SHIELD FROM ARTIFICIAL LIGHT SOURCES. ONE TIMER SHALL CONTROL EXTERIOR WALL PACKS AND THE OTHER SHALL CONTROL THE PARKING LOT.
3. THESE DRAWINGS ARE INTENDED TO BE DIAGRAMMATIC ONLY. CONSULT WITH GENERAL CONTRACTOR FOR DETAILS ON BIDDING; PROVIDE ALL PARTS AND LABOR FOR A COMPLETE AND CODE COMPLIANT FACILITY.
4. ELECTRICAL CONTRACTOR TO SHOW ACTUAL ROUTING OF ALL BELOW-GRADE CONDUITS AND WIRING ON AS-BUILT DRAWINGS. ROUTES SHOWN ARE GENERAL IN NATURE AND ACTUAL ROUTE SHALL BE DETERMINED BY GENERAL CONTRACTOR AND ELECTRICAL CONTRACTOR ONSITE.
5. PROVIDE GROUNDING AND BONDING AT EACH BUILDING IN ACCORDANCE WITH NEC 250.32.
6. REFER TO SHEET 'T-XXX' FOR ADDITIONAL CONDUIT LAYOUT INFORMATION.

## KEYED NOTES

1. EXISTING 208/120V 3P UTILITY TRANSFORMER.
2. PROPOSED CONDUIT ROUTE. SAW CUT CONCRETE AS NECESSARY TO ENSURE CONDUIT IS ROUTED UNDER THE EXISTING CONCRETE FOUNDATION.
3. PROVIDE 120V GENERATOR BLOCK HEATER CONNECTION.
4. PROVIDE 120V GENERATOR BATTERY HEATER CONNECTION.
5. PROVIDE 120V GENERATOR BATTERY CHARGER CONNECTION. (1)
6. MOUNT FIXTURE ON EXISTING POLE 28'-0" AFF TO BOTTOM OF LIGHT FIXTURE.
7. INSTALL NEW LIGHT FIXTURE POLE AND POLE BASE. MOUNT FIXTURE 28'-0" AFF TO BOTTOM OF LIGHT FIXTURE.

## 1 ELECTRICAL SITE PLAN

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

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revisions
(1) 12/12/2024 AD 03

MOORE PUBLIC SCHOOLS

CHILD CARE FACILITY
201 N. EASTERN AVE.

sheet no:

E100

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2900 S. Telephone Road, Suite 120
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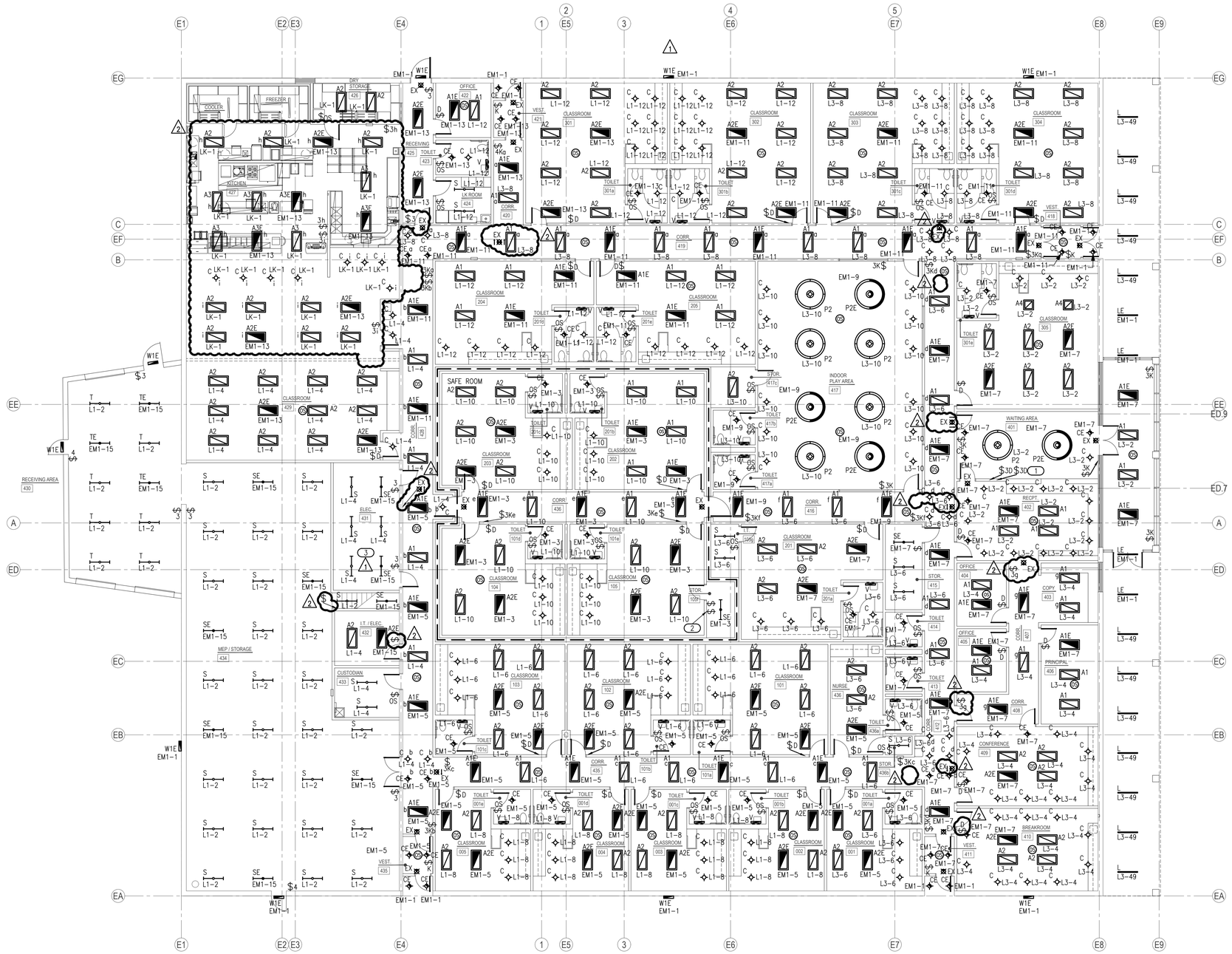

## 1 ELECTRICAL LIGHTING PLAN
SCALE: 3/32" = 1'-0"

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.

2

## 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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KFC ENGINEERING
STRUCTURAL

SALAS O'BRIEN
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MOORE PUBLIC SCHOOLS

CHILD CARE FACILITY
201 N. EASTERN AVE.

sheet no:

E101


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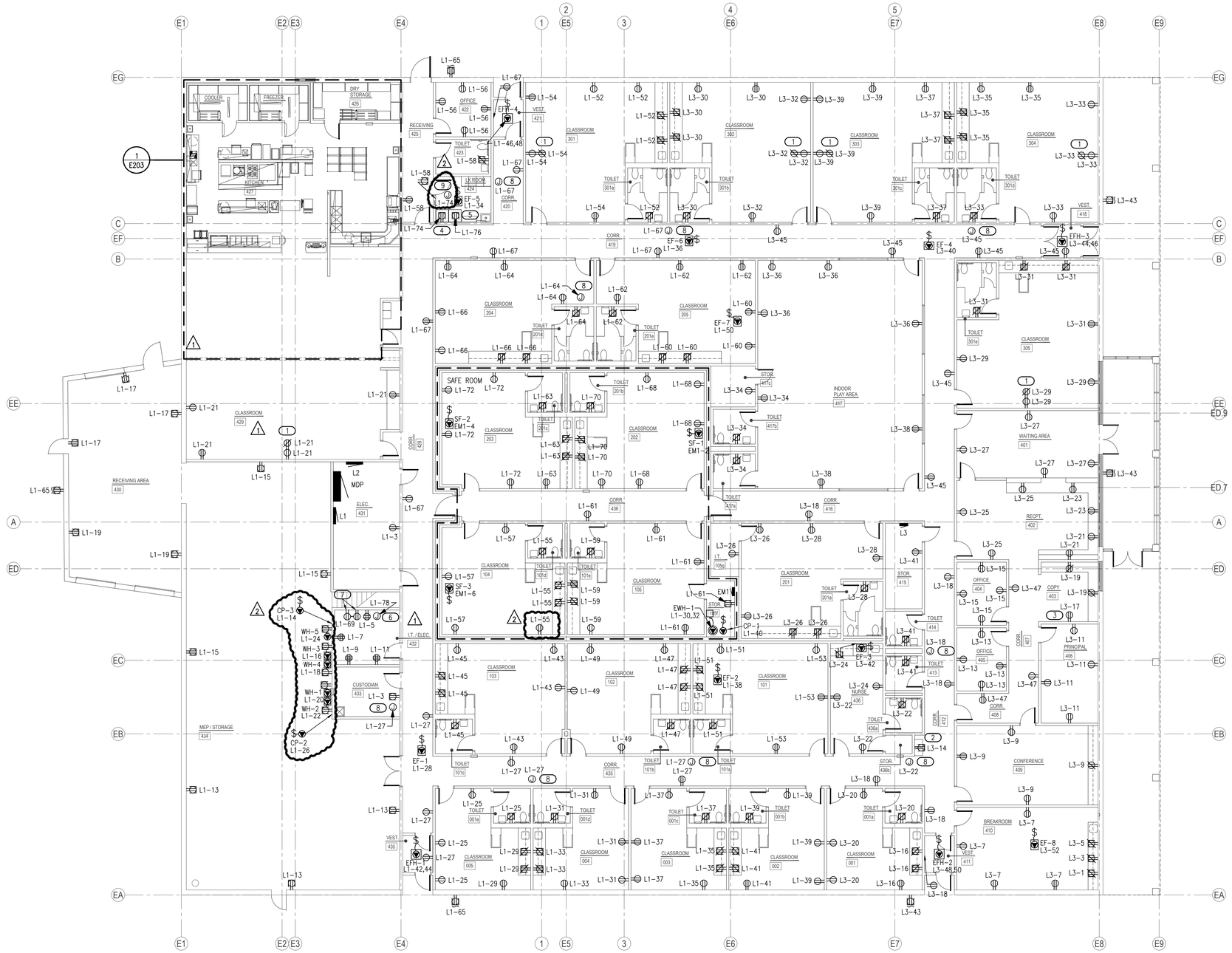


# 1 ELECTRICAL POWER PLAN

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 '1/E502' FOR ADDITIONAL INFORMATION. (1, 2)
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. (2)
9. PROVIDE 120V CONNECTION FOR DRYER BOOSTER FAN. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR ON SITE.


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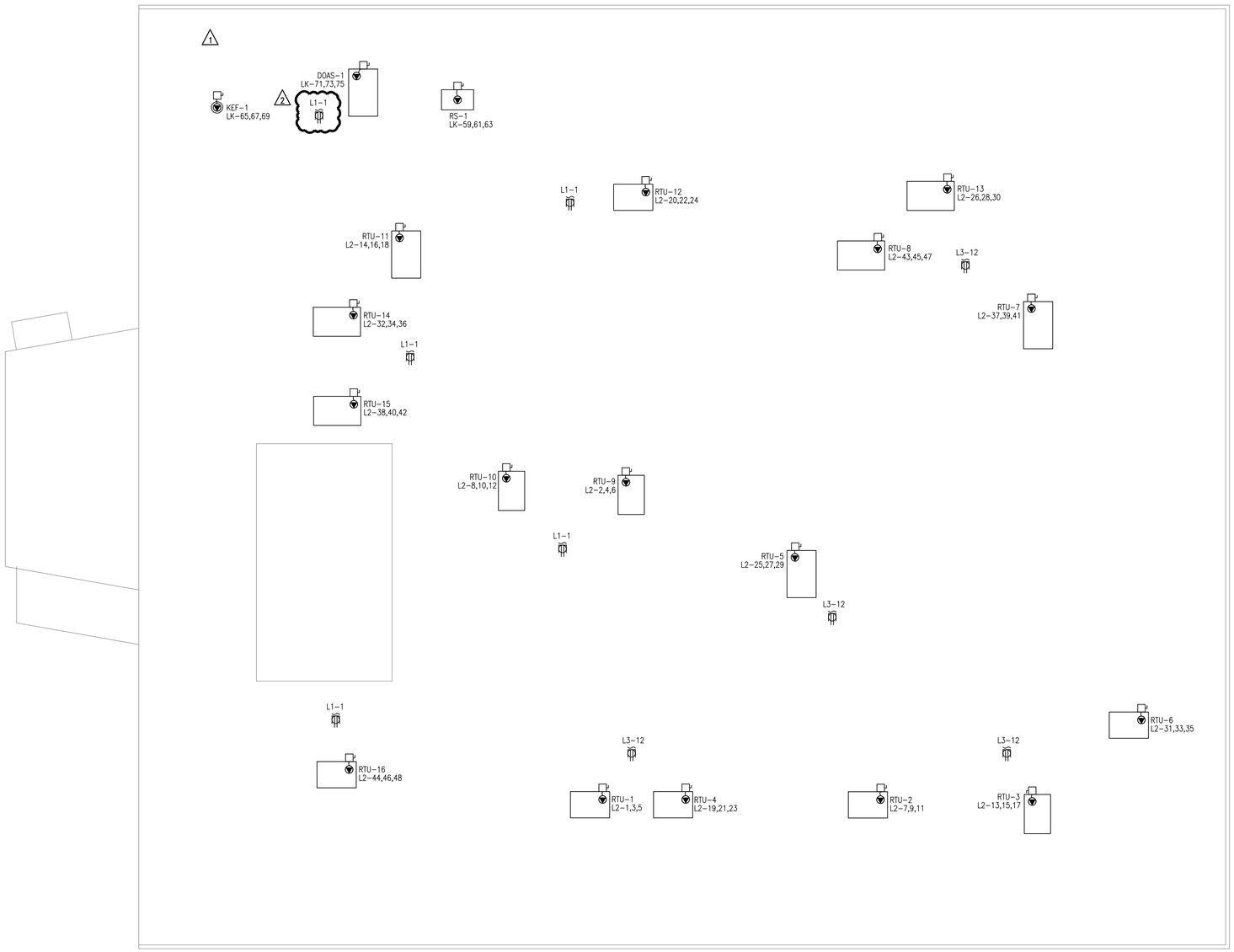
## GENERAL NOTES

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 OMITED 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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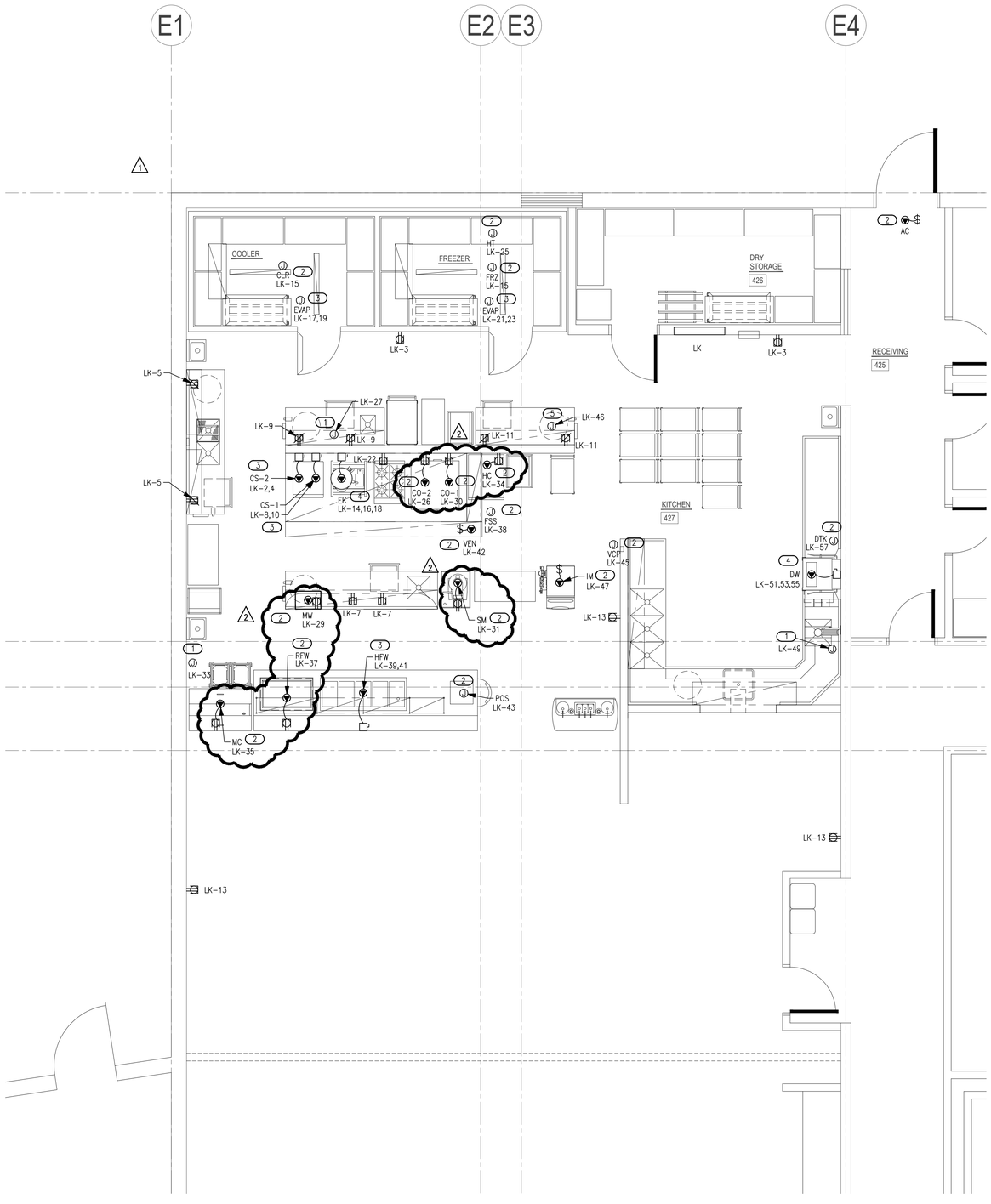


## 1 ENLARGED ELECTRICAL KITCHEN PLAN

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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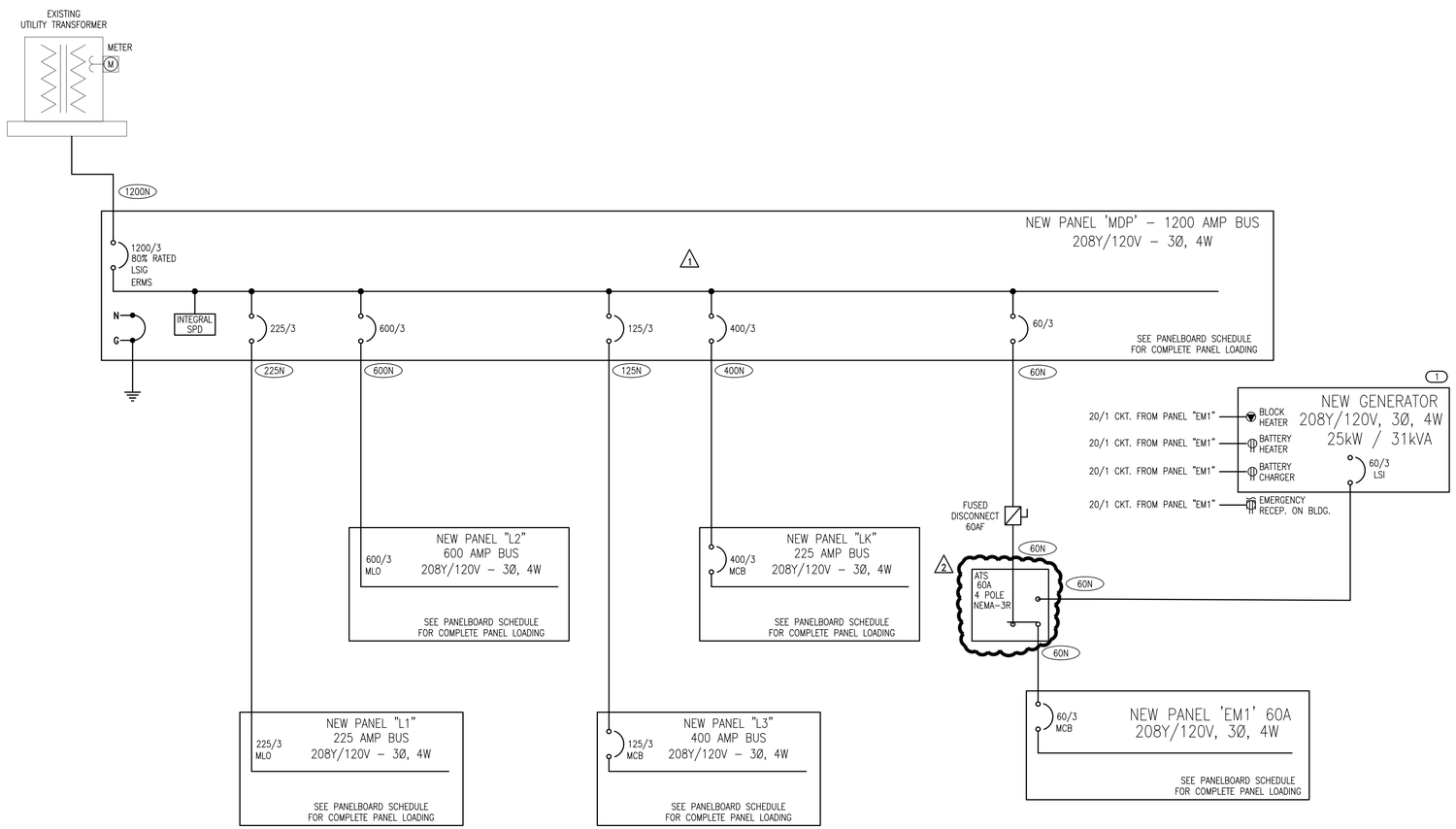


## 1 ONE-LINE DIAGRAM
NO SCALE

## 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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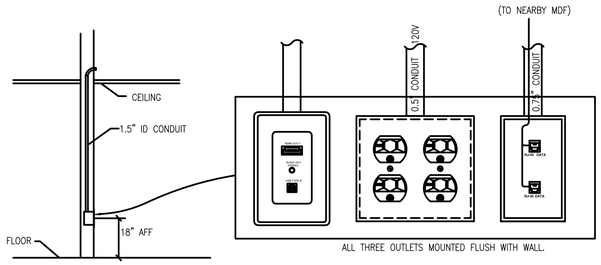
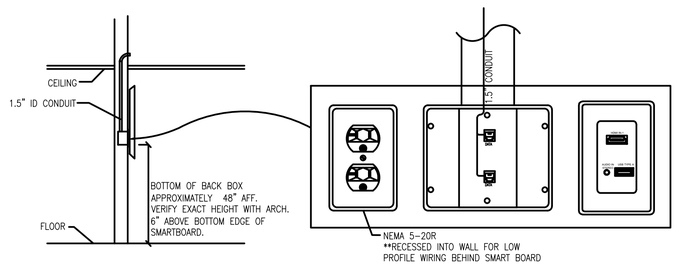
DATA & POWER OUTLET NEAR TEACHERS DESK



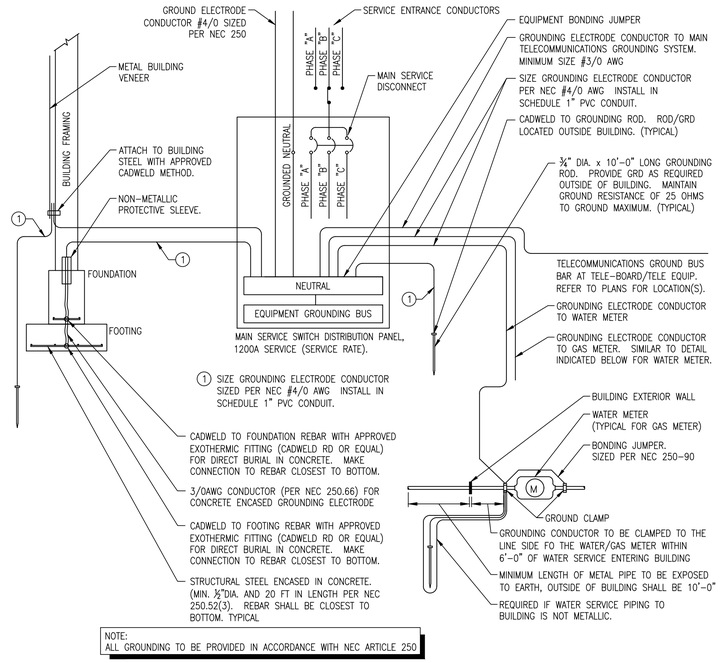

POWER OUTLET BEHIND SMARTBOARD




## 1 TEACHERS DESK & SMART BOARD WIRING DETAIL

NO SCALE

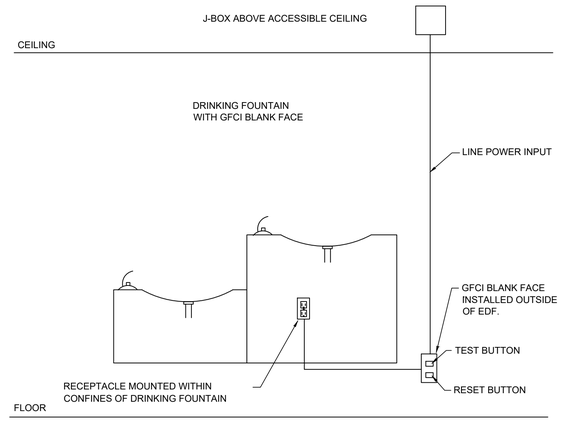
△1




NOTE:
ALL GROUNDING TO BE PROVIDED IN ACCORDANCE WITH NEC ARTICLE 250

## 3 MAIN ELECTRICAL GROUNDING DETAIL

NO SCALE




## 2 TYP. ELECTRICAL DRINKING FOUNTAIN DETAIL

NO SCALE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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 | 0.643 | LIGHTING | c | 12 | 20/1 | 0.5 | BATTERY CHARGER |
| 13 | 20/1 | 0.568 | 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 | 5.09 | 6.37 | (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 | | 85.6% | |
| | | | | PHASE C | | 91.2% | |

## 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 | 0.9 | ROOFTOP RECEPTACLE | a | 2 | 20/1 | 1.28 | LIGHTING |
| 3 | 20/1 | 0.36 | RM 431 RECEPTACLE, RM 433 RECEPTACLE | b | 4 | 20/1 | 0.806 | 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 |
| 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 | 0.415 | DRYER, DRYER BOOSTER FAN |
| 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 | 4.97 | 6.21 | (125%) | MOTORS | 5.56 | 5.56 | (100%) |
| LARGEST MOTOR | 0.696 | 0.174 | (25%) | RECEPTACLES | 30.3 | 20.1 | (50%>10) |
| | | | | HEATING | 8.5 | 8.5 | (100%) |
| | | | | TOTAL LOAD | | 40.6 | |
| | | | | BALANCED 3-PHASE LOAD | | 113 A | |
| | | | | PHASE A | | 111% | |
| | | | | PHASE B | | 95.3% | |
| | | | | PHASE C | | 93.5% | |

## 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 | 49.3 | PANEL L1 | a | 2 | 600/3 | 138 | PANEL L2 |
| 3 | \| | | | b | 4 | \| | | |
| 5 | \| | | | c | 6 | \| | | |
| 7 | 125/3 | 36.1 | 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 | 9.34 | 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 | 16.5 | 20.6 | (125%) | MOTORS | 236 | 236 | (100%) |
| LARGEST MOTOR | 18 | 4.5 | (25%) | RECEPTACLES | 59 | 34.5 | (50%>10) |
| | | | | HEATING | 15.3 | 15.3 | (100%) |
| | | | | TOTAL LOAD | | 310 | |
| | | | | BALANCED 3-PHASE LOAD | | 862 A | |
| | | | | PHASE A | | 104% | |
| | | | | PHASE B | | 100% | |
| | | | | PHASE C | | 95.7% | |

## 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 | 0.918 | 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 | 20/2 | 1.12 | LIGHTING | b | 52 | 15/1 | 0.696 | EF-8 |
| 53 | \| | | | 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 | 5.7 | 7.12 | (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 | | 30.5 | |
| | | | | BALANCED 3-PHASE LOAD | | 84.7 A | |
| | | | | PHASE A | | 97.3% | |
| | | | | PHASE B | | 104% | |
| | | | | PHASE C | | 98.7% | |


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KFC ENGINEERING
STRUCTURAL

SALAS O'BRIEN
MECHANICAL / ELECTRICAL



DWG
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TVO
checked by
OCTOBER 2024
date

revisions
1 11/22/2024 AD 02
2 12/12/2024 AD 03

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

## 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#10,#10N,#10G | 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 GFI | EC | EC |
| WH-2 | WATER HEATER | 120V 1P 2W | F HP | 0.1 | | | L1-22 | 3/4"C,1#12,#12N,#12G | DUPLEX RECEPTACLE GFI | EC | EC |
| WH-3 | WATER HEATER | 120V 1P 2W | F HP | 0.1 | | | L1-16 | 3/4"C,1#12,#12N,#12G | DUPLEX RECEPTACLE GFI | EC | EC |
| WH-4 | WATER HEATER | 120V 1P 2W | F HP | 0.1 | | | L1-18 | 3/4"C,1#12,#12N,#12G | DUPLEX RECEPTACLE GFI | EC | EC |
| WH-5 | WATER HEATER | 120V 1P 2W | F HP | 0.1 | | | L1-24 | 3/4"C,1#12,#12N,#12G | DUPLEX RECEPTACLE GFI | 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 LIGHTING | 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 GFI 2 | 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 GFI | 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 LIGHTING | 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 GFI 2 | 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 GFI 2 | EC | EC |
| MW | MICROWAVE | 120V 1P 2W | | 1.5 | | | LK-29 | 3/4"C,1#12,#12N,#12G | DUPLEX RECEPTACLE GFI | 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 GFI 2 | 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 GFI 2 | 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 |

1

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 | 0.726 | 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 | 0.726 | 0.907 | (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
drawn by

TVO
checked by

OCTOBER 2024
date

revisions
1 11/22/2024 AD 02
2 12/12/2024 AD 03

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