HCA Healthcare℠

HCA - LEE'S SUMMIT MEDICAL CENTER
MODULAR INTERIM KITCHEN COMPLEX

2100 SE BLUE PKWY, LEE'S SUMMIT, MO 64063

DGL PROJECT NO 6406.24.0001
HCA PROJECT NO. 0972400009

DATE:
10/21/2025 A B 1

HCA DESIGN MANAGER: MIKAL MALIK
HCA CONSTRUCTION MANAGER: ERIC SJODIN

SUBMITTALS:	DATE:
CITY & STATE - 1ST REVIEW	05/23/2025
CITY - 2ND REVIEW	07/03/2025 A
DESIGN COORDINATION	07/03/2025 B
ASI-001 - DESIGN COORDINATION	10/21/2025 1

Devenney GROUP

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www.devenneygroup.com

DEVENNEY GROUP, LTD.
ARCHITECTS
ARCHITECTS
6900 E CAMELBACK RD, SUITE #500
SCOTTSDALE, AZ 85251
PROJECT MANAGER: KEVIN COOK 602.541.7287

DUDLEY C. CAMPBELL
NUMBER
A-202106000149

DATE SIGNED: 10.21.25

WSP
MECHANICAL, PLUMBING & ELECTRICAL ENGINEERS
300 WYANDOTTE, SUITE 200
KANSAS CITY, MO 64105
PROJECT MANAGER: MINDY WHISLER 816.702.4247

KITCHENS TO GO
MODULAR KITCHEN DESIGNER
131 W. JEFFERSON AVE, SUITE 223
NAPERVILLE, IL 60540
PROJECT MANAGER: ZACH DAVIS 901.451.2152

NABHOLZ
GENERAL CONTRACTOR
6640 CAROTHERS PARKWAY, STE 150
FRANKLIN, TN 37067
PROJECT MANAGER: JEREMY BRANSON 913.393.6552

PROJECT SYMBOLS

DIMENSION LINE — 12'-0" TO FACE OF FRAMING OR CENTERLINE OF STRUCTURE

NORTH ARROW — TRUE NORTH / REFERENCE NORTH

REVISION — # — STANDARD

PRE-PERMIT REVISION

KEY FOR ENLARGED PLAN — 1 / AE415

DISCLAIMER

THESE COMPOSITION PLANS WERE DEVELOPED USING THE RECORD CONSTRUCTION PLANS PROVIDED BY THE CLIENT. RECORD DRAWINGS WERE UTILIZED TO GENERATE THE COMPOSITE PLANS. VERIFICATIONS WERE MADE FOR MINOR ALTERATION AND DEVIATIONS FROM THE ORIGINAL CONSTRUCTION PLANS. EXTENSIVE AS-BUILT VERIFICATION WAS NOT PERFORMED FOR THE COMPOSITE PLANS. THE COMPOSITE PLANS WERE UTILIZED FOR THE BASE PLANS FOR THE DEVELOPMENT OF THE MECHANICAL AND ELECTRICAL COMPOSITE PLANS. LIMITED FIELD VERIFICATION OF MECHANICAL AND ELECTRICAL SYSTEMS WERE PERFORMED TO DETERMINE LOCATIONS OF MAJOR COMPONENTS, FIRE PROTECTION AND LIFE SAFETY SYSTEMS

VICINITY MAP

PROJECT DATA

PROJECT NAME HCA - LEE'S SUMMIT MEDICAL CENTER - MODULAR INTERIM KITCHEN COMPLEX

ADDRESS 2100 SE BLUE PKWAY

LEE'S SUMMIT, MO 64063

BRIEF PROJECT DESCRIPTION

THIS PROJECT INCLUDES THE FOLLOWING COMPONENT:

•LEVEL 1 - MODULAR INTERIM KITCHEN INFRASTRUCTURE:
-THE SCOPE OF WORK WILL INCLUDE THE RUNNING OF UTILITIES (MEP) NEEDED TO SERVICE THE INTERIM KITCHEN AND ITS COMPONENTS.

NOTE: FOR BUILDING CODE INFORMATION REFER TO G-002 SHEET ON VENDOR DRAWINGS (KITCHENS TO GO)

DEFERRED SUBMITTALS

- FIRE/SMOKE ALARM DESIGN AND ENGINEERING
- FIRE SUPPRESSION DESIGN AND ENGINEERING

A

SHEET INDEX

X = ISSUED SHEET
R = REVISED SHEET
F = FOR REFERENCE ONLY
D = DELETED SHEET

SHEET NUMBER	SHEET NAME	CITY & STATE - 1ST REVIEW - 05/23/2025 (A)	CITY - 2ND REVIEW - 07/03/25 (B)	DESIGN COORDINATION - 2025/07/03 (B)	ASI-001 - DESIGN COORDINATION - 10/21/2025 (1)
GENERAL INFORMATION					
GI000	COVER SHEET	X	R	R	R
GI101	SHEET INDEX, PROJECT INFORMATION, AREA MAPS, SYMBOLS	X	R	R	R
CIVIL					
C5.3	DETAILED LAYOUT PLAN				X
ARCHITECTURAL SITE					
AS001	ARCHITECTURAL SITE PLAN	X	R		
PLUMBING					
P00-00	GENERAL INFORMATION - PLUMBING	X			
P02-01	FLOOR PLAN - LEVEL 01 - PLUMBING	X			R
P02-01A	FLOOR PLAN - LEVEL 01 - CENTRAL PLANT - PLUMBING	X			
P07-01	DETAILS - PLUMBING	X			
MEPT					
MEPT01 - 00	SITE PLAN - MEPT	X			R
MEPT02 - 02	ROOF PLAN - MEPT	X	R		
ELECTRICAL					
E00-00	GENERAL INFORMATION - ELECTRICAL	X	R		
E02-01	FLOOR PLAN - LEVEL 01 - POWER	X			R
E03-01	FLOOR PLAN - LEVEL 01 - LIGHTING	X			
E04-01	FLOOR PLAN - LEVEL 01 - SECTOR A - SPECIAL SYSTEMS	X			
E06-00	ONE LINE DIAGRAM - ELECTRICAL	X	R	R	R
E07-01	DETAILS - ELECTRICAL	X			
E08-01	SCHEDULES - ELECTRICAL	X			
TECHNOLOGIES					
T00-00	GENERAL INFORMATION - TECHNOLOGY	X			
T02-01	FLOOR PLAN - LEVEL 01 - COMMUNICATIONS	X			
T07-01	DETAILS - TECHNOLOGY	X			
VENDOR (KITCHENS TO GO)					
G-001	COVER SHEET & DRAWING INDEX	F			
G-002	APPLICABLE CODES, GENERAL NOTES & FINISH SCHEDULES	F			
G-003	DOOR SCHEDULE & EGRESS PLAN	F			
G-004	TYPICAL 2A & 5B CONSTRUCTION TYPES	F			
A-101	SITE PLAN	F			
A-102	RAMPS STAIRS & PLATFORMS PLAN	F			
I-101A	INTERIOR FLOOR PLAN & EQUIPMENT LIST	F			
I-101B	INTERIOR FLOOR PLAN & EQUIPMENT LIST	F			
I-102	REFLECTED CEILING PLAN	F			
A-103A	KITCHEN COMPLEX UTILITIES FLOOR PLAN	F			
A-103B	SERVERY COMPLEX UTILITIES FLOOR PLAN	F			
A-103C	KITCHEN COMPLEX UTILITIES ROOF PLAN	F			
A-103D	SERVERY COMPLEX UTILITIES ROOF PLAN	F			
A-104	PIER PLAN	F			
VENDOR (KITCHENS TO GO - SERVERY)					
(M681) G-001	COVER SHEET & DRAWING INDEX	F			
(M681) I-101	INTERIOR FLOOR PLAN AND EQUIPMENT LIST	F			
(M681) E-101	ELECTRICAL FLOOR PLAN SCHEMATIC	F			
(M681) E-601	ELECTRICAL PANEL SCHEDULE(S)	F			
(M681) M-101	HVAC DUCTING PLAN	F			
(M681) P-601	FRESH WATER PLUMBING SCHEMATIC	F			
(M681) P-602	WASTE WATER PLUMBING SCHEMATIC	F			
VENDOR (KITCHENS TO GO - SERVERY UNIT)					
(M682) G-001	COVER SHEET & DRAWING INDEX	F			
(M682) I-101	INTERIOR FLOOR PLAN AND EQUIPMENT LIST	F			
(M682) E-101	ELECTRICAL FLOOR PLAN SCHEMATIC	F			
(M682) E-601	ELECTRICAL PANEL SCHEDULE(S)	F			
(M682) M-101	HVAC DUCTING PLAN	F			
(M682) P-601	FRESH WATER PLUMBING SCHEMATIC	F			
(M682) P-602	WASTE WATER PLUMBING SCHEMATIC	F			
VENDOR (KITCHENS TO GO - WASH UNIT)					
(M820) G-001	COVER SHEET AND DRAWING INDEX	F			
(M820) I-101	INTERIOR FLOOR PLAN AND EQUIPMENT LIST	F			
(M820) E-101	ELECTRICAL FLOOR PLAN SCHEMATIC	F			
(M820) E-601	ELECTRICAL PANEL SCHEDULE(S)	F			
(M820) M-101	HVAC DUCTING PLAN	F			
(M820) P-601	FRESH WATER PLUMBING SCHEMATIC	F			
(M820) P-602	WASTE WATER PLUMBING SCHEMATIC	F			
(M820) P-603	GAS PLUMBING SCHEMATIC	F			
VENDOR (KITCHENS TO GO - COOK UNIT)					
(M821) G-001	COVER SHEET & DRAWING INDEX	F			
(M821) I-101	INTERIOR FLOOR PLAN AND EQUIPMENT LIST	F			
(M821) E-101	ELECTRICAL FLOOR PLAN SCHEMATIC	F			
(M821) E-601	ELECTRICAL PANEL SCHEDULE(S)	F			
(M821) E-602	ELECTRICAL PANEL SCHEDULE(S)	F			
(M821) M-501	MAKEUP AIR SPECIFICATIONS	F			
(M821) M-502	EXHAUST HOOD PLAN & SPECIFICATIONS	F			
(M821) M-503	EXHAUST HOOD PLAN & SPECIFICATIONS	F			
(M821) M-504	EXHAUST FAN & MAU SPECS	F			
(M821) M-505	EXHAUST FAN & MAU SPECS	F			
(M821) M-506	CONTROL PANEL	F			

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DUDLEY C. CAMPBELL
NUMBER A - 2021020649

DATE SIGNED: 10.21.25

IF THESE PLANS DO NOT BEAR THE SEAL OF A REGISTRANT, THEY ARE TO BE CONSIDERED "PRELIMINARY" AND ARE NOT TO BE USED FOR CONSTRUCTION OR RECORDING. THESE PLANS ARE COPYRIGHTED AND ARE SUBJECT TO COPYRIGHT PROTECTION AS AN "ARCHITECTURAL WORK" UNDER SEC. 102 OF THE COPYRIGHT ACT, 17 U.S.O. AS AMENDED DECEMBER 1990 AND KNOWN AS ARCHITECTURAL WORKS COPYRIGHT PROTECTION ACT OF 1990. THE PROTECTION INCLUDES BUT IS NOT LIMITED TO THE OVERALL FORM AS WELL AS THE ARRANGEMENT AND COMPOSITION OF SPACES AND ELEMENTS OF THE DESIGN. UNDER SUCH PROTECTION, UNAUTHORIZED USE OF THESE PLANS CAN LEGALLY RESULT IN THE CESSATION OF CONSTRUCTION OR BUILDINGS BEING SEIZED AND/OR MONETARY COMPENSATION TO DEVENNEY GROUP LTD.

MODULAR INTERIM KITCHEN COMPLEX

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY, LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400009

AGENCY APPROVALS:
AGENCY

REVISIONS

REV #	DESCRIPTION	DATE
A	CITY - 2ND REVIEW	2025/07/03
B	DESIGN COORDINATION	2025/07/03
1	ASI-001 - DESIGN COORDINATION	2025/10/21

1

DATE:	05/23/2025
SCALE:	
DRAWN:	
REVIEWED:	
JOB NUMBER:	6406.24.0001

SHEET INDEX, PROJECT INFORMATION, AREA MAPS, SYMBOLS

GI101

Autodesk Docs://6406.24 - HCA - Lee's Summit Medical Center (LSMC)_rvt23/6406.24.0001 HCA - LSMC Temp Kitchen.rvt
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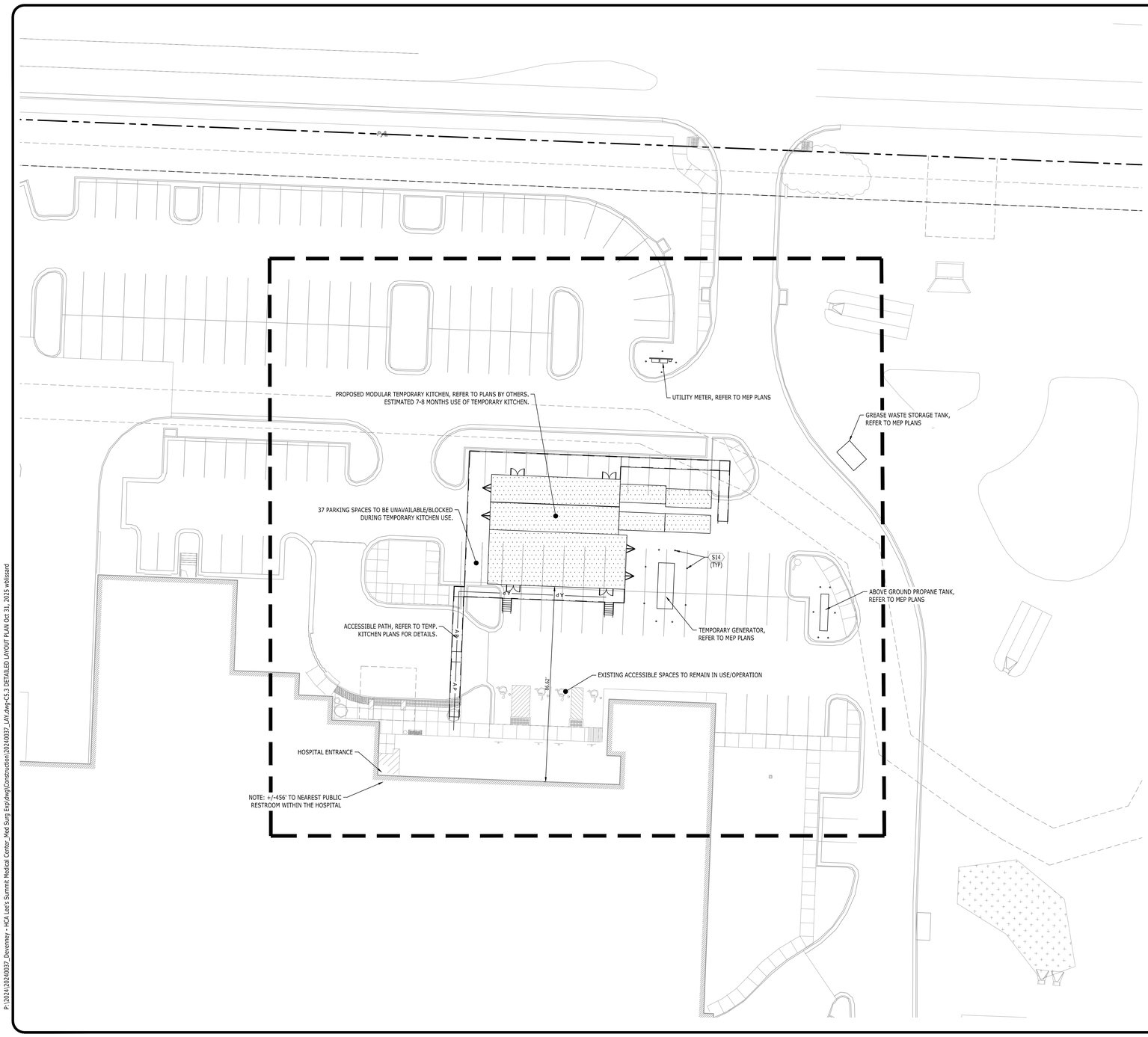

SITE LAYOUT KEYNOTES

CODE	DESCRIPTION	DET #/SHT #
S1A	ASPHALT PAVEMENT - LIGHT DUTY	1 / C8.0
S1B	ASPHALT PAVEMENT - HEAVY DUTY	1 / C8.0
S3B	CONCRETE POST CURB	10 / C8.0
S3C	CONCRETE CURB & GUTTER	2 / C8.0
S4A	CONCRETE SIDEWALK	5 / C8.0
S4B	CONCRETE SIDEWALK WITH TURN DOWN CURB	8 / C8.0
S4C	CONCRETE SIDEWALK AT CURB & GUTTER	3 / C8.0
S5	SIDEWALK JOINTS	6 / C8.0
S10	ACCESSIBLE RAMP	3 / C8.1
S14	BOLLARD	12 / C8.0
S15	PEDESTRIAN CROSSWALK SIGN	7 / C8.0
S16	STOP SIGN	4 / C8.0
S19	PEDESTRIAN CROSSWALK	7 / C8.0
S20	CONCRETE RETAINING WALL (WITH GUARDRAIL)	1 & 4 / C8.1
S21	CONCRETE WHEEL STOP	8 / C8.1
S22	ELEVATED WALK (WITH GUARDRAIL)	2 & 3 / C8.2

LEGEND

CONCRETE PAVEMENT	
CONCRETE SIDEWALK	
HEAVY DUTY PAVEMENT	
LIGHT DUTY PAVEMENT	
PAINTED STRIPE	
CONCRETE CURB	
CENTERLINE	

Catalyst DESIGN GROUP
1524 WILLIAMS DRIVE, SUITE 201, MURFREESBORO, TN 37129
(615) 622-7200 | WWW.CATALYST-DG.COM

LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PARKWAY
LEE'S SUMMIT, MO 64063
816-282-5000

CONSTRUCTION DOCUMENTS
HCA LEE'S SUMMIT MEDICAL CENTER
2000 SE SHENANDOAH DRIVE
LEE'S SUMMIT, MO, 64063
JACKSON COUNTY

NO.	DATE	DESCRIPTION
1	10/21/2025	ASI-001 - DESIGN COORDINATION

DRAWING TITLE
DETAILED LAYOUT PLAN

PROJECT NUMBER
20240037

DRAWING NUMBER
C5.3

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STATE OF MISSOURI
JACK I. PARKER
NUMBER PE-2010040852
PROFESSIONAL ENGINEER
10/21/2025

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INPATIENT BED EXPANSION

HCA - LEE'S SUMMIT
MEDICAL CENTER
2100 SE BLUE PKWY
LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400009

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE
1	ASI-001 - DESIGN COORDINATION	2025/10/21

DATE:	2025/07/25
SCALE:	1:20
DRAWN:	AP
REVIEWED:	WB
JOB NUMBER:	6406.24

DETAILED LAYOUT PLAN

C5.3

P:\20241\20240037_Devenney - HCA Lee's Summit Medical Center_Med Surg Exp\dwg\Construction\20240037_LAY.dwg>C5.3 DETAILED LAYOUT PLAN Oct 31, 2025 wbissard

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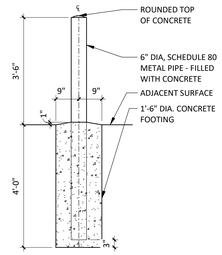
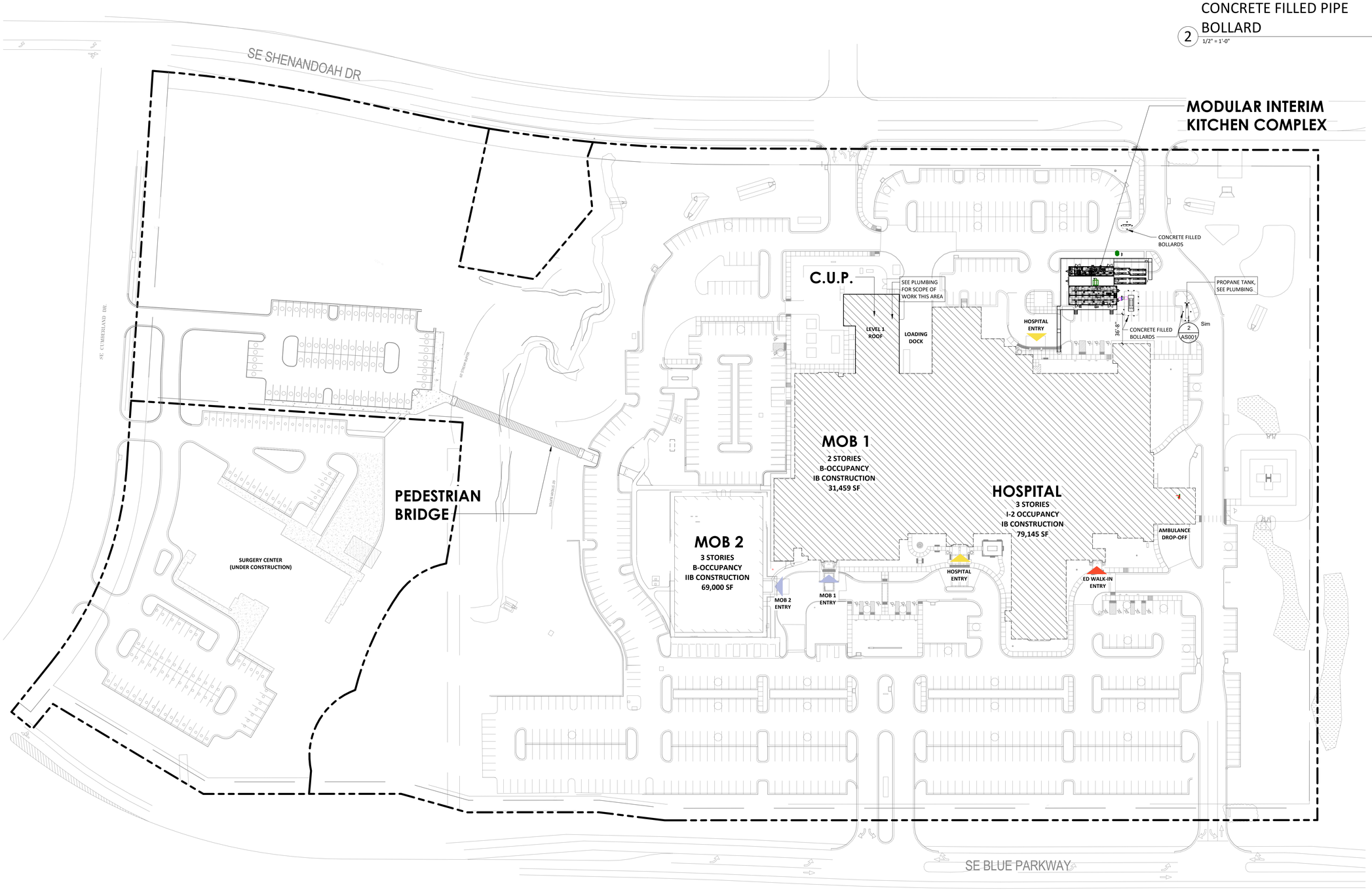
SITE PLANS GENERAL NOTES

1. CONTRACTOR TO PROVIDE OCCUPANCY PLAQUE TO ALL ASSEMBLY SPACES. POSTED SIGNS ARE TO BE LOCATED IN A CONSPICUOUS PLACE, NEAR THE MAIN EXIT OR EXIT ACCESS DOORWAY FROM THE ROOM OR SPACE. POSTED SIGNS SHALL BE OF AN APPROVED LEGIBLE PERMANENT DESIGN AND SHALL BE MAINTAINED BY THE OWNER OR AUTHORIZED AGENT. DINING OCCUPANCY COUNT TO NOT EXCEED 95.

A



2 CONCRETE FILLED PIPE BOLLARD
1/2" = 1'-0"



1 OVERALL SITE PLAN
1" = 50'-0"

Devenney GROUP

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Consultant:

STATE OF MISSOURI
DUDLEY C. CAMPBELL
NUMBER A- 2021002040

DATE SIGNED: 07.03.25

IF THESE PLANS DO NOT BEAR THE SEAL OF A REGISTRANT, THEY ARE TO BE CONSIDERED "PRELIMINARY" AND ARE NOT TO BE USED FOR CONSTRUCTION OR RECORDING. THESE PLANS ARE COPYRIGHTED AND ARE SUBJECT TO COPYRIGHT PROTECTION AS AN "ARCHITECTURAL WORK" UNDER SEC. 102 OF THE COPYRIGHT ACT, 17 U.S.O. AS AMENDED DECEMBER 1990 AND KNOWN AS ARCHITECTURAL WORKS COPYRIGHT PROTECTION ACT OF 1990. THE PROTECTION INCLUDES BUT IS NOT LIMITED TO THE OVERALL FORM AS WELL AS THE ARRANGEMENT AND COMPOSITION OF SPACES AND ELEMENTS OF THE DESIGN. UNDER SUCH PROTECTION, UNAUTHORIZED USE OF THESE PLANS CAN LEGALLY RESULT IN THE CESSATION OF CONSTRUCTION OR BUILDINGS BEING SEIZED AND/OR MONETARY COMPENSATION TO DEVENNEY GROUP LTD.

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AUTHORITY HAVING JURISDICTION:
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ARCHITECTURAL SITE PLAN

AS001

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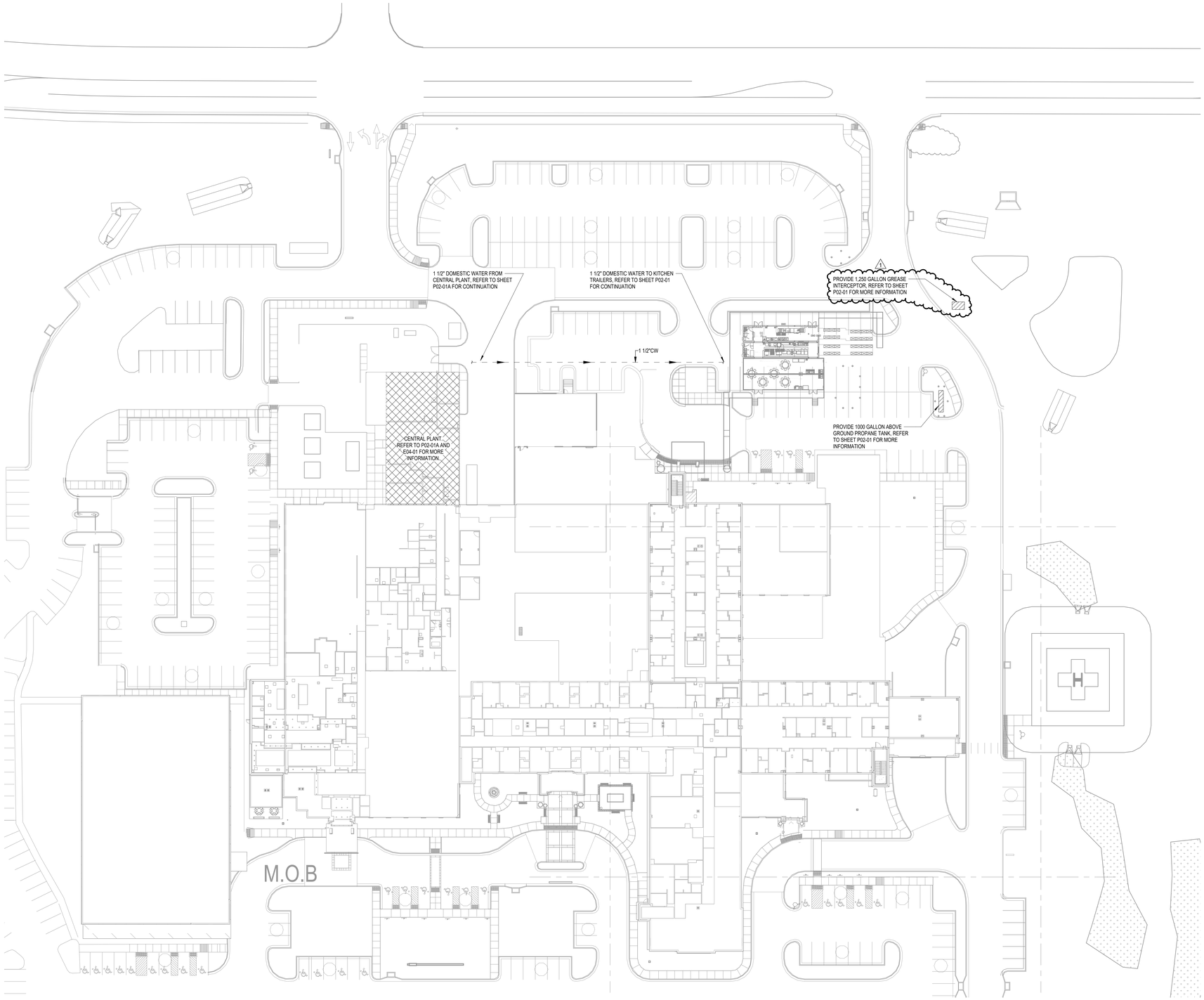

1 FLOOR PLAN -ENLARGED SITE PLAN - PLUMBING
1/32" = 1'-0"

GENERAL NOTES

A. REFER TO P00-00 FOR PLUMBING NOTES AND SYMBOLS.
B. ALL GREASE WASTE PIPING ROUTED ABOVE GRADE.
C. INSULATE AND HEAT TRACE ALL EXPOSED P-TRAPS, GREASE WASTE PIPING ABOVE GRADE AND COLD WATER PIPING ABOVE GRADE.
D. DASHED PIPING TO BE ROUTED BELOW GRADE.
E. REFER TO SHEET E00-00 FOR ELECTRICAL SYMBOLS APPEARING ON THIS SHEET AND ADDITIONAL GENERAL NOTES
F. REFER TO SHEET E08 SERIES FOR FEEDER SCHEDULES.
G. REFER TO AND COORDINATE WITH THE ARCHITECTURAL PLANS, ELEVATIONS, EQUIPMENT VENDOR DRAWINGS AND DETAILS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL WIRING DEVICES

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Consultant:

wsp

STATE OF MISSOURI
JONATHAN DECKERT
NUMBER
PE-202103939
PROFESSIONAL ENGINEER
10/21/2025
WSP USA Buildings Inc. 2013001881

IF THESE PLANS DO NOT BEAR THE SEAL OF A REGISTRANT, THEY ARE TO BE CONSIDERED "PRELIMINARY" AND ARE NOT TO BE USED FOR CONSTRUCTION OR RECORDING. THESE PLANS ARE COPYRIGHTED AND ARE SUBJECT TO COPYRIGHT PROTECTION AS AN "ARCHITECTURAL WORK" UNDER SEC. 102 OF THE COPYRIGHT ACT, 17 U.S.O. AS AMENDED DECEMBER 1990 AND KNOWN AS ARCHITECTURAL WORKS COPYRIGHT PROTECTION ACT OF 1990. THE PROTECTION INCLUDES BUT IS NOT LIMITED TO THE OVERALL FORM AS WELL AS THE ARRANGEMENT AND COMPOSITION OF SPACES AND ELEMENTS OF THE DESIGN. UNDER SUCH PROTECTION, UNAUTHORIZED USE OF THESE PLANS CAN LEGALLY RESULT IN THE CESSATION OF CONSTRUCTION OR BUILDINGS BEING SEIZED AND/OR MONETARY COMPENSATION TO DEVENNEY GROUP LTD.

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AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

AUTHORITY HAVING JURISDICTION'S PROJECT NO:
AHJ PROJECT-CASE NUMBER
AHJ PROJECT-CASE NUMBER 2

FACILITY NUMBER:
0972400009
FACILITY NUMBER 2

AGENCY APPROVALS:
AGENCY

REVISIONS

REV #	DESCRIPTION	DATE
1	ASI-001 - DESIGN COORDINATION	2025/10/21

DATE:	05/23/25
SCALE:	As indicated
DRAWN:	WSP
REVIEWED:	WSP
JOB NUMBER:	6406.24.0001

SITE PLAN - MEPT

MEPT01-00

Notice of Alternate Billing or Payment Cycle: The Owner may plan to make payments on an alternative schedule. A written description of such billing or payment cycle applicable to the Project is available from the Owner or the Owner's designated agent upon request.

Autodesk Docs://6406.24 - HCA - Lee'S Summit Medical Center (LSMC)_rvt23/MEP_LSMC TEMP KITCHEN_R23.rvt

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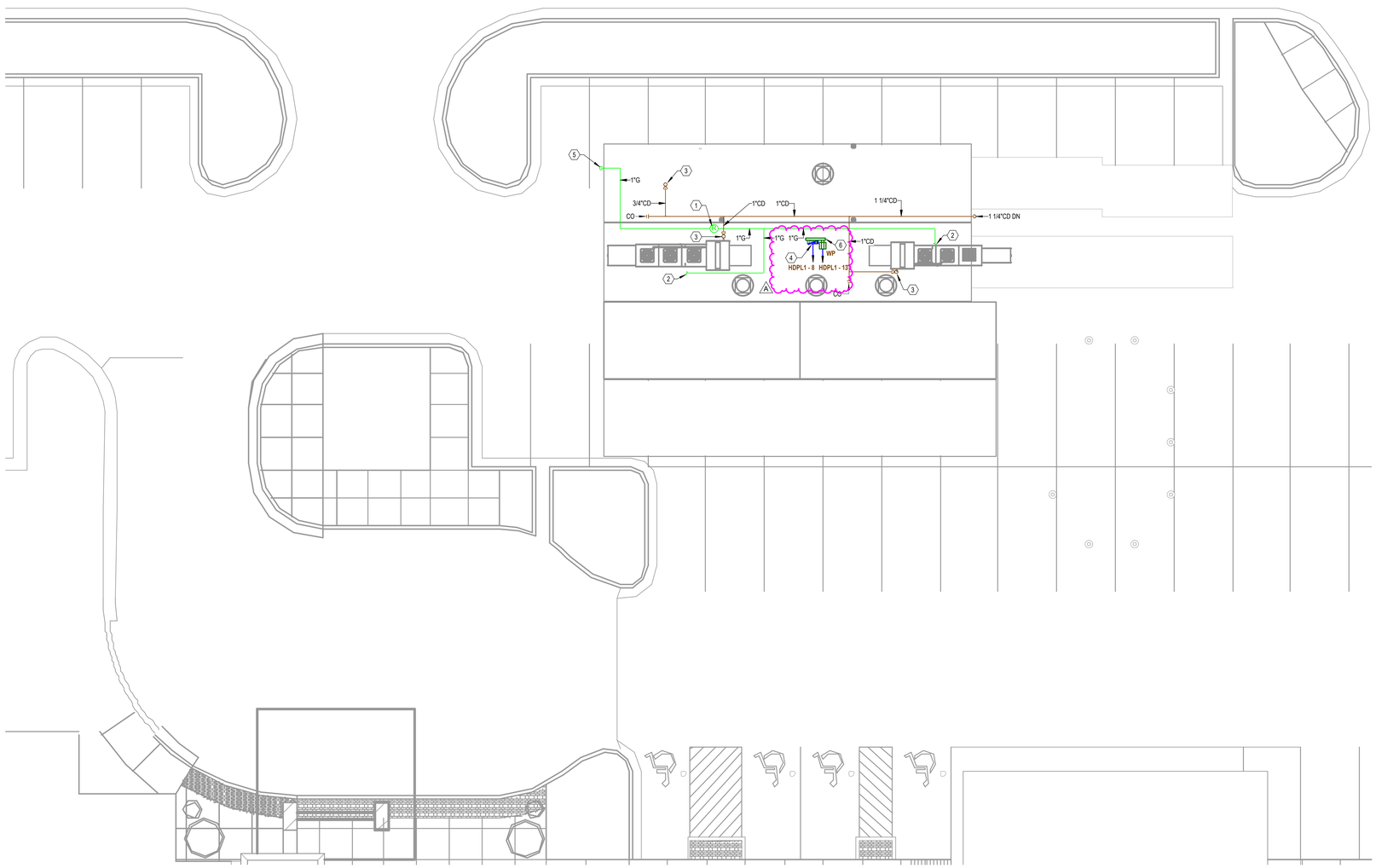

1 ROOF PLAN - MEP
1/8" = 1'-0"

GENERAL NOTES

A. REFER TO P00-00 FOR PLUMBING NOTES AND SYMBOLS.
B. ALL GREASE WASTE PIPING ROUTED ABOVE GRADE.
C. INSULATE AND HEAT TRACE ALL EXPOSED P-TRAPS, GREASE WASTE PIPING ABOVE GRADE AND COLD WATER PIPING ABOVE GRADE.
D. DASHED PIPING TO BE ROUTED BELOW GRADE.
E. REFER TO SHEET E00-00 FOR ELECTRICAL SYMBOLS APPEARING ON THIS SHEET AND ADDITIONAL GENERAL NOTES
F. REFER TO SHEET E08 SERIES FOR FEEDER SCHEDULES.
G. REFER TO AND COORDINATE WITH THE ARCHITECTURAL PLANS, ELEVATIONS, EQUIPMENT VENDOR DRAWINGS AND DETAILS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL WIRING DEVICES

LEGEND NOTES

1. SET PRESSURE REGULATOR VALVE TO 14" W.C.
2. CONNECT UTILITY PIPING TO VENDOR PROVIDED MAKE-UP AIR UNIT. COORDINATE EXACT LOCATION WITH VENDOR DRAWINGS.
3. CONNECT CONDENSATE DRAIN PIPING TO VENDOR PROVIDED EQUIPMENT. COORDINATE EXACT LOCATION WITH VENDOR DRAWINGS.
4. PROVIDE 208V/3PH POWER TO BRANCH PANEL FOR MUA1 AND MUA2 CONDENSING UNITS. COORDINATE EXACT LOCATION WITH VENDOR DRAWINGS PRIOR TO INSTALLATION. REFER TO E06-00 FOR ADDITIONAL INFORMATION.
5. ~~1"G PIPING DOWN. REFER TO P00-01 FOR CONTINUATION.~~
6. PROVIDE (2) POWER PEDESTALS EQUAL TO PP-60-S EACH WITH PP-80-B FOR INTEGRATION OF WATERPROOF MEMBRANE INTO ROOF MATERIAL. UNISTRUT TO BE MOUNTED BETWEEN POWER PEDESTALS FOR ELECTRICAL FIXTURES AND EQUIPMENT INDICATED.

A

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Consultant:

wsp

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06/30/2025
WSP USA Buildings Inc. 2013001881

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MODULAR INTERIM KITCHEN COMPLEX

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY, LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

AUTHORITY HAVING JURISDICTION'S PROJECT NO:
AHJ PROJECT-CASE NUMBER
AHJ PROJECT-CASE NUMBER 2

FACILITY NUMBER:
0972400009
FACILITY NUMBER 2

AGENCY APPROVALS:
AGENCY

REVISIONS

REV #	DESCRIPTION	DATE
A	CITY 2ND REVIEW	2025/07/03

DATE:	05/23/25
SCALE:	1/8" = 1'-0"
DRAWN:	WSP
REVIEWED:	WSP
JOB NUMBER:	6406.24.0001

ROOF PLAN - MEPT

MEPT02-02

Notice of Alternate Billing or Payment Cycle: The Owner may plan to make payments on an alternative schedule. A written description of such billing or payment cycle applicable to the Project is available from the Owner or the Owner's designated agent upon request.

Autodesk Docs://6406.24 - HCA - Lee's Summit Medical Center (LSMC)_rvt23/MEP_LSMC TEMP KITCHEN_R23.rvt
6/30/2025 11:18:00 AM

A. SUPPLEMENTAL GENERAL CONDITIONS

1. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND IT IS THE INTENT AND MEANING OF THE CONTRACT DOCUMENTS THAT THE CONTRACTOR SHALL PROVIDE AN ELECTRICAL INSTALLATION THAT IS COMPLETE WITH ALL ITEMS AND APPURTENANCES NECESSARY, REASONABLE INCIDENTAL, OR CUSTOMARILY INCLUDED, EVEN THOUGH EACH AND EVERY ITEM IS NOT SPECIFICALLY CALLED OUT OR SHOWN. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIALS, LABOR, SUPERVISION AND SERVICE NECESSARY SO AS TO PROVIDE A COMPLETE, FUNCTIONING ELECTRICAL SYSTEM IN SAFE WORKING ORDER.
2. SYMBOLS FOR VARIOUS ELEMENTS AND SYSTEMS ARE SHOWN ON THE DRAWINGS. SHOULD THERE BE ANY DOUBT REGARDING THE MEANING OR INTENT OF THE SYMBOLS USED, AN INTERPRETATION SHALL BE OBTAINED FROM THE ARCHITECT IN WRITING. THE DECISION OF THE ARCHITECT SHALL BE FINAL.
3. IT SHALL BE THE RESPONSIBILITY OF EACH CONTRACTOR TO EXAMINE THE CONTRACT DOCUMENTS CAREFULLY BEFORE SUBMITTING THEIR BID, WITH PARTICULAR ATTENTION TO ERRORS, OMISSIONS, CONFLICTS WITH PROVISIONS OF LAWS AND CODES HAVING JURISDICTION, CONFLICTS BETWEEN DRAWINGS OR DRAWINGS AND SPECIFICATIONS, AND AMBIGUOUS DEFINITION OF THE EXTENT OF COVERAGE BETWEEN CONTRACTS. ANY SUCH DISCREPANCY SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ARCHITECT FOR CORRECTION. SHOULD ANY OF THESE ERRORS, OMISSIONS, CONFLICTS, OR AMBIGUITIES EXIST, THE CONTRACTOR SHALL HAVE THEM EXPLAINED AND ADJUSTED IN WRITING BEFORE SIGNING THE CONTRACT OR PROCEEDING WITH THE WORK; OTHERWISE, THE CONTRACTOR SHALL, AT THEIR OWN EXPENSE, SUPPLY THE PROPER MATERIALS AND LABOR TO MAKE GOOD ANY DAMAGE OR DEFECTS IN THEIR WORK OR THE RESULTS OBTAINED THEREFROM, CAUSED BY SUCH DISCREPANCY.
4. WHEREVER CONFLICTS OCCUR BETWEEN DIFFERENT PARTS OF THE CONTRACT DOCUMENTS, THE GREATER QUANTITY, THE BETTER QUALITY, OR LARGER SIZE SHALL PREVAIL UNLESS THE ARCHITECT INFORMS THE CONTRACTOR OTHERWISE IN WRITING.
5. THE SCALE OF EACH DRAWING IS RELATIVELY ACCURATE; ANY DIMENSIONS SHOWN ARE APPROXIMATE TO CENTERLINE FROM ASSUMED BUILDING PERIMETER. THE CONTRACTOR SHALL OBTAIN THE NECESSARY DIMENSIONS FOR ANY EXACT TAKEOFFS FROM THE ARCHITECT. NO ADDITIONAL COST TO THE OWNER WILL BE CONSIDERED FOR FAILURE TO OBTAIN EXACT DIMENSIONS WHERE NOT CLEAR OR IN ERROR ON THE DRAWINGS. ANY DEVICE OR FIXTURE ROUGHED IN IMPROPERLY AND NOT POSITIONED ON IMPLIED CENTER-LINES OR AS REQUIRED BY GOOD PRACTICE MUST BE REPOSITIONED AT NO COST TO THE OWNER.
6. THE CONTRACTOR IS RESPONSIBLE FOR FILING AND PAYING ALL FEES AND OBTAINING NECESSARY PERMITS AND CERTIFICATES OF INSPECTION. THE CONTRACTOR SHALL DELIVER ALL CERTIFICATES OF INSPECTION TO OWNER/CONSTRUCTION MANAGER INCLUDING COPIES WITH MAINTENANCE MANUALS.
7. ONLY EXPERIENCED CRAFTSMEN KNOWLEDGEABLE IN THEIR RESPECTIVE TRADE SHALL PERFORM THE WORK DESCRIBED IN THE CONSTRUCTION DOCUMENTS.
8. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF NFPA STANDARD 70 (NATIONAL ELECTRICAL CODE). CONTRACTOR SHALL ALSO CONFORM TO ALL APPLICABLE LOCAL CODES AND AMENDMENTS.
9. UNLESS OTHERWISE INDICATED, ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND SHALL MEET NEMA AND ANSI STANDARDS. THEY SHALL ALSO BE LISTED/LABELED BY A NATIONALLY RECOGNIZED LABORATORY IN ACCORDANCE WITH NFPA 70. EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, AND WITHIN THEIR LISTING/LABELING REQUIREMENTS AND RESTRICTIONS.
10. PROVIDE SHOP DRAWINGS FOR ENGINEER'S REVIEW FOR ALL ELECTRICAL EQUIPMENT, DEVICES, AND MATERIALS PROPOSED TO BE PROVIDED UNDER THIS CONTRACT. ANY DEVIATIONS FROM ITEMS SPECIFIED SHALL BE CLEARLY IDENTIFIED AND SEPARATELY SUBMITTED WITH A FORMAL SUBSTITUTION REQUEST. REFER TO SPECIFICATIONS (PROJECT MANUAL) FOR REQUIREMENTS.

B. ELECTRICAL EQUIPMENT

1. PROVIDE AN IDENTIFICATION NAMEPLATE FOR EACH ELECTRICAL EQUIPMENT, APPURTENANCE DEPICTING THE DESIGNATION INDICATED ON THE DRAWINGS. REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS.
2. WEATHERPROOF ENCLOSURES SHALL BE PROVIDED FOR ALL ELECTRICAL EQUIPMENT, DEVICES AND APPURTENANCES (ALL SYSTEMS) INSTALLED OUTDOORS.
3. COORDINATE AND SCHEDULE ALL POWER OUTAGES WITH OWNER. REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS.
4. SPACE ALLOCATIONS FOR MATERIALS, EQUIPMENT AND DEVICES HAVE BEEN MADE ON THE BASIS OF PRESENT AND KNOWN FUTURE REQUIREMENTS AND THE DIMENSIONS OF ITEMS OF EQUIPMENT OR DEVICES OF A PARTICULAR MANUFACTURER. THE CONTRACTOR SHALL VERIFY THAT ALL MATERIALS, EQUIPMENT AND DEVICES PROPOSED FOR USE ON THIS PROJECT ARE WITHIN THE CONSTRAINTS OF THE ALLOCATED SPACE.
5. DO NOT USE PERMANENT INK WHEN MAKING FIELD MARKINGS OR TEMPORARY CIRCUIT LABELS ON PANELS. CONTRACTOR SHALL USE REMOVABLE TAPE/TAGS FOR ALL TEMPORARY MARKINGS AND SHALL REMOVE THESE TEMPORARY MARKINGS AT THE CONCLUSION OF THIS PROJECT.

C. SITE WORK

1. COORDINATE WITH THE SITE WORK FOR THE LOCATION, DIMENSIONS AND ELEVATION OF ALL DUCTBANKS/SERVICE CONDUITS EXTERNAL TO THE BUILDING PRIOR TO INSTALLATION OF ALL DUCTBANKS/SERVICE CONDUITS INTERNAL TO THE BUILDING.
2. COORDINATE ALL ELECTRICAL UTILITY SERVICE REQUIREMENTS WITH UTILITIES REPRESENTATIVE PRIOR TO COMMENCING ANY ELECTRICAL SITE WORK. CONTRACTOR SHALL SCHEDULE ALL NECESSARY MEETINGS BETWEEN UTILITY COMPANIES CONSTRUCTION FOREMAN, ELECTRICAL SUBCONTRACTORS, AND VARIOUS SUBCONTRACTORS RESPONSIBLE FOR SITE CONSTRICTION PRIOR TO ELECTRICAL ROUGH-IN.

D. CONDUIT & RACEWAY

1. ALL WORK SHALL BE COORDINATED SO THAT INTERFERENCES ARE AVOIDED. PROVIDE ALL NECESSARY OFFSETS IN CONDUITS, RACEWAYS, ETC., REQUIRED TO PROPERLY INSTALL THE WORK. EXPOSED WORK MUST BE KEPT AS CLOSE AS POSSIBLE TO WALLS, CEILINGS, COLUMNS, ETC., SO AS TO TAKE UP MINIMUM AMOUNT OF SPACE; ALL OFFSETS, FITTINGS, ETC., REQUIRED SHALL BE PROVIDED WITHOUT ADDITIONAL EXPENSE TO THE OWNER. WORK SHALL BE COORDINATED WITH OTHER TRADES.
2. CONDUIT RUNS ARE DIAGRAMMATIC IN NATURE. CONTRACTOR IS RESPONSIBLE FOR SIZING AND LOCATING PULL BOXES PER NFPA 70 AND FOR COORDINATION WITH OTHER DISCIPLINES.
3. PENETRATIONS OF WALLS, FLOORS, AND ROOFS FOR THE PASSAGE OF ELECTRICAL RACEWAYS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO THE COMMENCEMENT OF WORK. ALL SUCH PENETRATIONS SHALL BE PROPERLY SEALED OFF AFTER INSTALLATION OF RACEWAY SO AS TO MAINTAIN THE STRUCTURAL, WATER PROOF, AND FIRE PROOF INTEGRITY OF THE WALL, FLOOR, OR ROOF SYSTEM PENETRATED.
4. SEAL ALL CONDUITS THAT PENETRATE THE BASEMENT FLOOR SLAB TO MAKE THEM WATER TIGHT. THE CONDUITS SHALL BE DRIED PRIOR TO INSTALLATION OF WIRE/CABLE AND SHALL BE SEALED AT TERMINATIONS.
5. ALL PENETRATIONS THROUGH FIRE RATED WALLS OR PARTITIONS SHALL BE MADE IN ACCORDANCE WITH U.L. "FIRE RESISTANCE DIRECTORY". PENETRATIONS SHALL BE SLEEVED AND SEALED WITH A UL APPROVED FIRE RATED SEALANT. REFER TO ARCHITECTURAL PLANS FOR FIRE RATED WALLS.
6. ALL EMPTY CONDUIT SYSTEMS SHALL CONTAIN A PULL WIRE FOR FUTURE PULLING OF CONDUCTORS.

E. BRANCH CIRCUITS AND FEEDERS

1. CIRCUITING IS SHOWN DIAGRAMMATICALLY. HOMERUNS SHALL BE COMBINED WHERE POSSIBLE IN ACCORDING TO NFPA 70.
2. UNLESS OTHERWISE INDICATED, ALL CIRCUITS 100' OR LESS SHALL BE MINIMUM #12 AWG WIRE SIZE. CIRCUITS OVER 100' BUT LESS THAN 200' SHALL BE MINIMUM #10 AWG WIRE SIZE. CIRCUITS OVER 200' BUT LESS THAN 300' SHALL BE MINIMUM #8 AWG WIRE SIZE.
3. UNLESS OTHERWISE INDICATED, ALL CONDUCTORS SHALL BE COPPER, 98% CONDUCTIVITY CONTINUOUS FROM OUTLET TO OUTLET.
4. UNLESS OTHERWISE INDICATED, CONDUCTOR SIZES #12 AWG AND #10 AWG SHALL BE SOLID. CONDUCTOR SIZES #8 AWG AND LARGER MAY BE STRANDED.
5. A SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE PULLED WITH THE CIRCUIT CONDUCTORS FOR GROUNDING WHETHER OR NOT INDICATED ON THE DRAWINGS. METAL RACEWAY, OR A CABLE ARMOR OR SHEATH SHALL NOT BE USED AS THE ONLY EQUIPMENT GROUNDING CONDUCTOR.
6. HOMERUN CIRCUITS FOR ISOLATED GROUND RECEPTACLES SHALL BE SEPARATED FROM OTHER CIRCUITS. EACH CIRCUIT SHALL HAVE ITS OWN NEUTRAL CONDUCTOR AND EACH HOMERUN SHALL CONTAIN AN ISOLATED AND EQUIPMENT GROUND CONDUCTOR.

F. WIRING DEVICES

1. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR LOCATION AND MOUNTING HEIGHT OF ALL WALL AND FLOOR MOUNTED ELEMENTS (OUTLETS, LIGHT SWITCHES, CONTROLLERS, POKE-THRU, ETC). ALL WALL/FLOOR MOUNTED ITEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL DIMENSIONED DRAWINGS. IF LOCATION FOR AN ITEM IS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS, VERIFY THE EXACT LOCATION OF THE ITEM WITH THE ARCHITECT PRIOR TO INSTALLATION. THESE REQUIREMENTS APPLY TO ALL WALL/FLOOR TYPES IN ALL AREAS. DO NOT SCALE OR DIMENSION LOCATIONS FROM THESE DRAWINGS.
2. COORDINATE THE LOCATION AND INSTALLATION DETAIL OF OUTLETS IN MILLWORK WITH ARCHITECTURAL DRAWINGS (WALL ELEVATIONS, MILLWORK DETAILS, ETC.) AND WITH MILLWORK MANUFACTURER PRIOR TO ELECTRICAL ROUGH-IN.
3. WALL AND FLOOR MOUNTED POWER RECEPTACLES SHOWN NEAR DATA OUTLETS SHALL BE LOCATED WITHIN SIX (6) INCHES OF THE DATA OUTLET. LOCATE AT SAME MOUNTING HEIGHT UNLESS NOTED OTHERWISE.
4. VERIFY THE EXACT POWER CONNECTION TYPE AND NEMA CONFIGURATION OF RECEPTACLES FOR EQUIPMENT FURNISHED BY THE OWNER, OTHER TRADES, OR UNDER A SEPARATE SECTION OF THIS CONTRACT PRIOR TO ELECTRICAL ROUGH-IN.
5. ALL RECEPTACLES LOCATED OUTSIDE THE BUILDING ENVELOPE SHALL BE HOUSED IN ENCLOSURES THAT ARE RATED 'WEATHER-PROOF-WHILE-IN-USE' AND SHALL BE EQUIPPED WITH GFCI FOR PERSONNEL PROTECTION.
6. ALL GFCI RECEPTACLES SHALL BE CONNECTED SO THAT ALL DEVICES ON THE SAME CIRCUIT AS THE GFCI RECEPTACLE DO NOT DE-ENERGIZE UPON TRIPPING. ALL GFCI RECEPTACLES SHALL INCLUDE A LOCK-OUT FUNCTION TO PROTECT AGAINST THE USE OF MISWIRED DEVICES OR DEVICES THAT HAVE BEEN DAMAGED DUE TO DISABLING SURGES.

G. MECHANICAL & PLUMBING COORDINATION

1. REFERENCE THE MECHANICAL AND PLUMBING DRAWINGS FOR ALL EQUIPMENT NEEDING ELECTRICAL CONNECTIONS. MAKE ALL CONNECTIONS AND PROVIDE APPROPRIATE WIRE, CONDUIT, AND OVERCURRENT PROTECTION FOR ALL EQUIPMENT.
2. VERIFY EXACT LOCATION OF ALL POWER CONNECTIONS AND CONTROL DEVICES WITH OTHER TRADES AND MANUFACTURERS SHOP DRAWINGS BEFORE CONSTRUCTION. COORDINATE ALL REQUIRED ENERGY MANAGEMENT SYSTEM POINTS AND CONTACT CONNECTIONS TO ENSURE THE COMPLETE AND PROPER OPERATION OF ALL SYSTEMS.
3. ALL FUSED SWITCH AND/OR CIRCUIT BREAKERS SERVING EQUIPMENT SHALL HAVE PROVISIONS FOR HANDLE LOCKS.
4. ALL CIRCUIT BREAKERS SERVING MECHANICAL EQUIPMENT SHALL BEAR AN 'HACR' RATING.
5. ALL DISCONNECTS DOWN STREAM OF VFDs SHALL BE PROVIDED WITH AUXILIARY CONTACTS TO SHUT DOWN UPSTREAM VFD WHEN SWITCH IS OPENED.
6. COORDINATE BETWEEN TRADES AND PROVIDE CONTROL POWER FOR ALL VAV BOXES/DAMPERS/ETC, AS REQUIRED TO ENSURE A COMPLETE, FULLY FUNCTIONAL HVAC SYSTEM. SHOULD AN EXACT CIRCUIT NUMBER NOT BE INDICATED ON ELECTRICAL DRAWINGS, CONTRACTOR SHALL UTILIZE AVAILABLE 20A/1P SPACE FROM THE NEAREST 208V/120V PANEL OR FROM BUILDING CONTROL POWER DISTRIBUTION SYSTEM.

H. SPECIAL SYSTEMS (i.e. DATA/PHONE/SECUITY/CATV)

1. CONTRACTOR SHALL PROVIDE AND INSTALL AN EMPTY CONDUIT RACEWAY SYSTEM FOR SPECIAL SYSTEM. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN VENDOR SHOP DRAWINGS FROM THE VENDOR/INSTALL PRIOR TO ELECTRICAL ROUGH-IN. CONTRACTOR SHALL COORDINATE, PROVIDE AND INSTALL ALL REQUIRED RACEWAYS AND DEVICE BACK BOXES AS REQUIRED BY VENDOR SHOP DRAWINGS. CONTRACTOR TO PROVIDE A LINE ITEM ALLOWANCE IN BID AS NECESSARY TO COVER THIS SCOPE. REFER TO T SERIES AND AV SERIES DRAWINGS FOR ADDITIONAL REQUIREMENTS.

GENERAL NOTATIONS AND MOUNTING HEIGHTS

NOTE 1: ALL MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE, UNLESS OTHERWISE INDICATED.
A) 48" AFF INDICATES TO TOP OF DEVICE;
B) 15" AFF INDICATES TO BOTTOM OF DEVICE;
C) 60" AFF INDICATES TO BOTTOM OF DEVICE;
D) 80" AFF INDICATES TO BOTTOM OF DEVICE;

NOTE 2: CONFIRM ALL BACKBOX SIZE WITH VENDOR SHOP DRAWINGS PRIOR TO ELECTRICAL ROUGH-IN.

(2) - LEGEND NOTES: DENOTES "SEE LEGEND NOTE NO. 2"

(7) - EQUIPMENT (ID) NUMBER FOR FOOD SERVICE EQUIPMENT. REFER TO FOOD SERVICE DOCUMENTS FOR DEFINITION AND REQUIREMENTS.

02/E7.01 - DENOTES: REFERENCE DETAIL 02 ON DRAWING (SHEET) E7.01

E5.01 02 - DENOTES: REFERENCE ENLARGED DETAIL PLAN 02 ON DRAWING (SHEET) E5.01

717629 OR 717629 - EQUIPMENT (ID) NUMBER FOR OWNER PROVIDED EQUIPMENT. REFER TO OWNER'S EQUIPMENT BOOK / FF&E DOCUMENTS FOR DEFINITION AND REQUIREMENTS.

PROJECT DESIGN CRITERIA

LOCATION:	
CITY/STATE	LEE'S SUMMIT, MO
APPLICABLE CODES:	
BUILDING	2018 INTERNATIONAL BUILDING CODE
MECHANICAL	2018 INTERNATIONAL MECHANICAL CODE
PLUMBING	2018 INTERNATIONAL PLUMBING CODE
FIRE	2018 INTERNATIONAL FIRE CODE
ELECTRICAL	2017 NATIONAL ELECTRICAL CODE
LATITUDE:	38.9108° DEGREES NORTH
ELEVATION: FT. ABOVE SEA LEVEL	738 FT

ELECTRICAL ABBREVIATIONS

AFC	ABOVE FINISHED COUNTER	MH	MANHOLE
AFF	ABOVE FINISHED FLOOR	MLO	MAIN LUGS ONLY
AHJ	AUTHORITY HAVING JURISDICTION	MTD	MOUNT OR MOUNTED
ATS	AUTOMATIC TRANSFER SWITCH	MW	MICROWAVE
BFC	BELOW FINISHED CEILING	N	NEW DEVICE
BOF	BOTTOM OF FIXTURE	NC (N.C.)	NORMALLY CLOSED
C	CONDUIT	NEC	NATIONAL ELECTRIC CODE
CB,C/B OR CKT BKR	CIRCUIT BREAKER	NF	NONFUSED
CKT	CIRCUIT	NIC	NOT IN CONTRACT
CCTV	CLOSED CIRCUIT T.V.	NL	NIGHT LIGHT
CLG	CEILING	NO (N.O.)	NORMALLY OPEN
CR	CRITICAL (EMERGENCY SYSTEM)	PB	PULL BOX
CUH	CABINET HEATER	PLGMLD	PLUGMOLD
EC	EMPTY CONDUIT	PNL	PANEL
ELEC	ELECTRIC	PWR	POWER
E	EMERGENCY	R	RELOCATED DEVICE
EMS	ENERGY MANAGEMENT SYSTEM	RCPT(S) OR RECEPT	RECEPTACLE(S)
EP	EXPLOSION PROOF	REF	REFRIGERATOR
EWC	ELECTRIC WATER COOLER	RF	RETURN AIR FAN
EX	EXISTING	SEF	SMOKE EXHAUST FAN
F	FUSE	SF	SUPPLY AIR FAN
FA	FIRE ALARM	SO (S.O.)	SPACE ONLY
FACP, FAP	FIRE ALARM CONTROL PANEL	SP	SPARE
FCU	FAN COIL UNIT	ST (S.T.)	SHUNT TRIP
FIXT	FIXTURE	SW	SWITCH
FLR	FLOOR	TEL	TELEPHONE
FLUOR	FLUORESCENT	TF	TRANSFER FAN
FTP, FTS OR FTU	FAN TERMINAL UNIT	TP	TAMPER PROOF
FUT	FUTURE	TV	TELEVISION
G, GND	GROUND (EQUIPMENT)	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
GEF	GENERAL EXHAUST FAN	UF	UDERFLOOR
GEN	GENERATOR	UG	UNDERGROUND
GFCI, GFI	GROUND FAULT CIRCUIT INTERRUPTER	UH	UNIT HEATER
HP	HORSE POWER	UNO (U.N.O.)	UNLESS NOTED OR INDICATED OTHERWISE
HV	HIGH VOLTAGE		
HWAT	HEAT TRACE	V	VOLTAGE
IC	INTERRUPTING CAPACITY	VFD	VARIABLE FREQUENCY DRIVE
ICAND	INCANDESCENT	VP	VAPOR PROOF
IG	ISOLATED GROUND	VV	VARIABLE VOLUME UNIT
IGF	GROUND FAULT INDICATION ONLY	W	WIRE
JB	JUNCTION BOX	W/	WITH
KEF	KITCHEN EXHAUST FAN	WG	WIRE GUARD
LTG	LIGHTING	WP	WEATHER PROOF
LTS	LIGHTS	WT	WATER TIGHT
LV	LOW VOLTAGE	XFMR	TRANSFORMER MOUNTING
MATV	MASTER ANTENNA	+xx	HEIGHT IN INCHES. AFF UNO.
MCB	MAIN CIRCUIT BREAKER	UCR	UNCER CABINET REFRIGERATOR
MCC	MOTOR CONTROL CENTER		
MDP	MAIN DISTRIBUTION PANEL		

ONE-LINE DIAGRAM & RISER SYMBOLS LEGEND

	AUTOMATIC / MANUAL TRANSFER SWITCH - PROGRAMMED OR DELAYED TRANSITION		AUTOMATIC / MANUAL TRANSFER SWITCH - BYPASS ISOLATION
XX/XX/X	DISCONNECT AMPS / FUSE / POLES	AAAA BBBB	FEEDER TAG. REFER TO FEEDER SCHEDULE FOR NUMBER AND SIZE OF CONDUCTORS AND CONDUIT. A- ALUMINUM C-COPPER
XX	MOTOR XX = HORSE POWER		GROUNDING ELECTRODE
XXX	BRANCH PANEL XXX = PANEL NAME	T-XXX XXkVA	TRANSFORMER
AT	BOLT ON CIRCUIT BREAKER AT = TRIP RATING	AF AT	DRAW OUT CIRCUIT BREAKER AT = TRIP RATING AF = FRAME SIZE

LSIG ELECTRONIC TRIP FUNCTIONS
L = LONG TIME SETTING
S = SHORT TIME SETTING
I = INSTANTANEOUS SETTING
G = GROUND FAULT SETTING
A = INDICATION GROUN FAULT (GROUND FAULT ALARM ONLY)

POWER SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION	MNTG. HT. UNO
WP	DUPLEX RECEPTACLE, GFCI, TAMPER RESISTANT, WEATHER RESISTANT, HOUSED IN A "WEATHERPROOF-WHILE-IN-USE" ENCLOSURE -20A/125V;2P;3WG NEMA 5-20R	18" AFF
J	JUNCTION BOX - SIZE & MOUNTING AS REQUIRED	AS REQUIRED
X/Y/Z	DISCONNECT SWITCH (X=FRAME SIZE, Y=FUSE SIZE, Z=NUMBER OF POLES)	AS REQUIRED
X/--/Z	DISCONNECT SWITCH NON-FUSED (X=FRAME SIZE, Z=NUMBER OF POLES)	AS REQUIRED
	CIRCUIT HOMERUN TO PANELBOARD (2#12, 1#12G, 3/4"C. 20A/1P CB UNO)	--
	208Y/120V PANELBOARD	--
	208Y/120V DISTRIBUTION PANELBOARD	--
	TRANSFER SWITCH	--

LIGHTING SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
	RECESSED/SURFACE MOUNTED LINEAR FIXTURE ON NORMAL CIRCUIT.	SEE NOTE 2
	RECESSED/SURFACE MOUNTED LINEAR FIXTURE ON LIFE SAFETY CIRCUIT OR LEGALLY REQUIRED STANDBY SYSTEM.	SEE NOTE 2
	RECESSED/SURFACE MOUNTED LINEAR FIXTURE ON CRITICAL CIRCUIT OR NON-ESSENTIAL STANDBY SYSTEM.	SEE NOTE 2

LIGHTING NOTES:
1. REFER TO LIGHT FIXTURE SCHEDULE FOR SPECIFIC FIXTURE INFORMATION.
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR MOUNTING HEIGHTS. IT IS THE INTENT, UNLESS NOTED OTHERWISE, THAT SURFACE AND RECESSED FIXTURES ARE TO BE MOUNTED AT ARCHITECTS CEILING PLANE.

LIGHTING CONTROLS SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION	
#	# IN DIAMOND REFER TO LIGHTING CONTROLS REQUIREMENTS AND SEQUENCE OF OPERATIONS SCHEDULE.	
1	1 ZONE, 1 BUTTON MANUAL CONTROL DEVICE	SEE NOTE 1 SEE NOTE 2
$	WALL SWITCH SPST, 20A, 120/277V	SEE NOTE 2
$3	3-WAY WALL SWITCH, 20A, 120/277V	SEE NOTE 1 SEE NOTE 2

LIGHTING NOTES:
1. PROVIDE SINGLE POLE OR 3-WAY SWITCHING FOR DEVICSE AS NEEDED.
2. REFER TO ARCHITECTURAL DRAWINGS FOR TYPICAL MOUNTING HEIGHTS. WHERE MOUNTING HEIGHT IS NOT INDICATED BY ARCHITECT, PROVIDE AT 48" AFF.

FIRE ALARM SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION	MNTG. HT. UNO
F	FIRE ALARM PULL STATION WALL MOUNTED	48" AFF
X	FIRE ALARM AUDIBLE VISUAL SIGNAL WALL MOUNTED (X: H=HORN, S=SPEAKER)	80" AFF
X	FIRE ALARM AUDIBLE SIGNAL WALL MOUNTED (X: H=HORN, S=SPEAKER)	80" AFF
	FIRE ALARM VISUAL SIGNAL WALL MOUNTED	80" AFF
CLG X	FIRE ALARM AUDIBLE VISUAL SIGNAL CEILING MOUNTED (X: H=HORN, S=SPEAKER)	--
CLG X	FIRE ALARM AUDIBLE SIGNAL CEILING MOUNTED (X: H=HORN, S=SPEAKER)	--
CLG	FIRE ALARM VISUAL SIGNAL CEILING MOUNTED	--
FS	FIRE ALARM SPRINKLER FLOW SWITCH	--
TS	FIRE ALARM SPRINKLER TAMPER SWITCH	--
PS	FIRE ALARM SPRINKLER PRESSURE SWITCH	--
FACP	FIRE ALARM CONTROL PANEL	AS REQUIRED
FAAP	FIRE ALARM ANNUNCIATOR PANEL	AS REQUIRED
FPAP	FIRE PUMP ANNUNCIATOR PANEL	AS REQUIRED
MM	MONITOR MODULE	AS REQUIRED
NAC	NOTIFICATION APPLIANCE CIRCUIT FOUR CIRCUIT FIRE ALARM INDICATING CIRCUIT POWER EXTENDER	AS REQUIRED

FIRE ALARM SYSTEM

FIRE ALARM SYSTEMS IS A DELGATED DESIGN. THESE DRAWINGS ARE INTENDED TO SHOW GENERAL GUIDELINES FOR THE PLACEMENT OF FIRE ALARM DEVICES AS THEY RELATE TO OTHER (NON-FIRE ALARM) SYSTEMS AND FOR PERMITTING PURPOSES. THE FINAL FIRE ALARM PLANS TO BE SUBMITTED FOR AHJ APPROVAL SHALL BE PRODUCED AND SEALED BY A NICET LEVEL III CERTIFIED DESIGNER. REFER TO THE SPECIFICATIONS (PROJECT MANUAL) FOR FURTHER REQUIREMENTS. THE DESIGNER SHALL PROVIDE ALL DEVICES SHOWN ON THESE DRAWINGS AND ANY ADDITIONAL DEVICES OR COMPONENTS REQUIRED FOR A COMPLETE SYSTEM. IF OTHER DEVICES ARE ANTICIPATED TO BE REQUIRED FOR SYSTEM FUNCTIONALITY, COMPLIANCE WITH NATIONAL AND LOCAL CODES OR APPROVAL OF THE AHJ, THE CONTRACTOR SHALL QUALIFY THEIR BID AND SHALL PROVIDE AN ADD ALTERNATE PRICE MAKING NOTE OF THE SPECIFIC ANTICIPATED ADDITIONAL REQUIREMENTS.

BUILDING CODE: 2018 IBC

FIRE CODE: 2018 IFC

ELECTRICAL CODE: 2017 NFPA 70 (NEC)

BUILDING CONSTRUCTION TYPE: TYPE 1A - FULLY SPRINKLERED

OCCUPANCY: TYPE A-II

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NUMBER PE-2017000128
PROFESSIONAL ENGINEER
06/30/2025
WSP USA Buildings Inc. 2019000881

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MODULAR INTERIM KITCHEN COMPLEX

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY, LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

AUTHORITY HAVING JURISDICTION'S PROJECT NO:
AHJ PROJECT-CASE NUMBER
AHJ PROJECT-CASE NUMBER 2

FACILITY NUMBER:
0972400009
FACILITY NUMBER 2

AGENCY APPROVALS:
AGENCY

REVISIONS

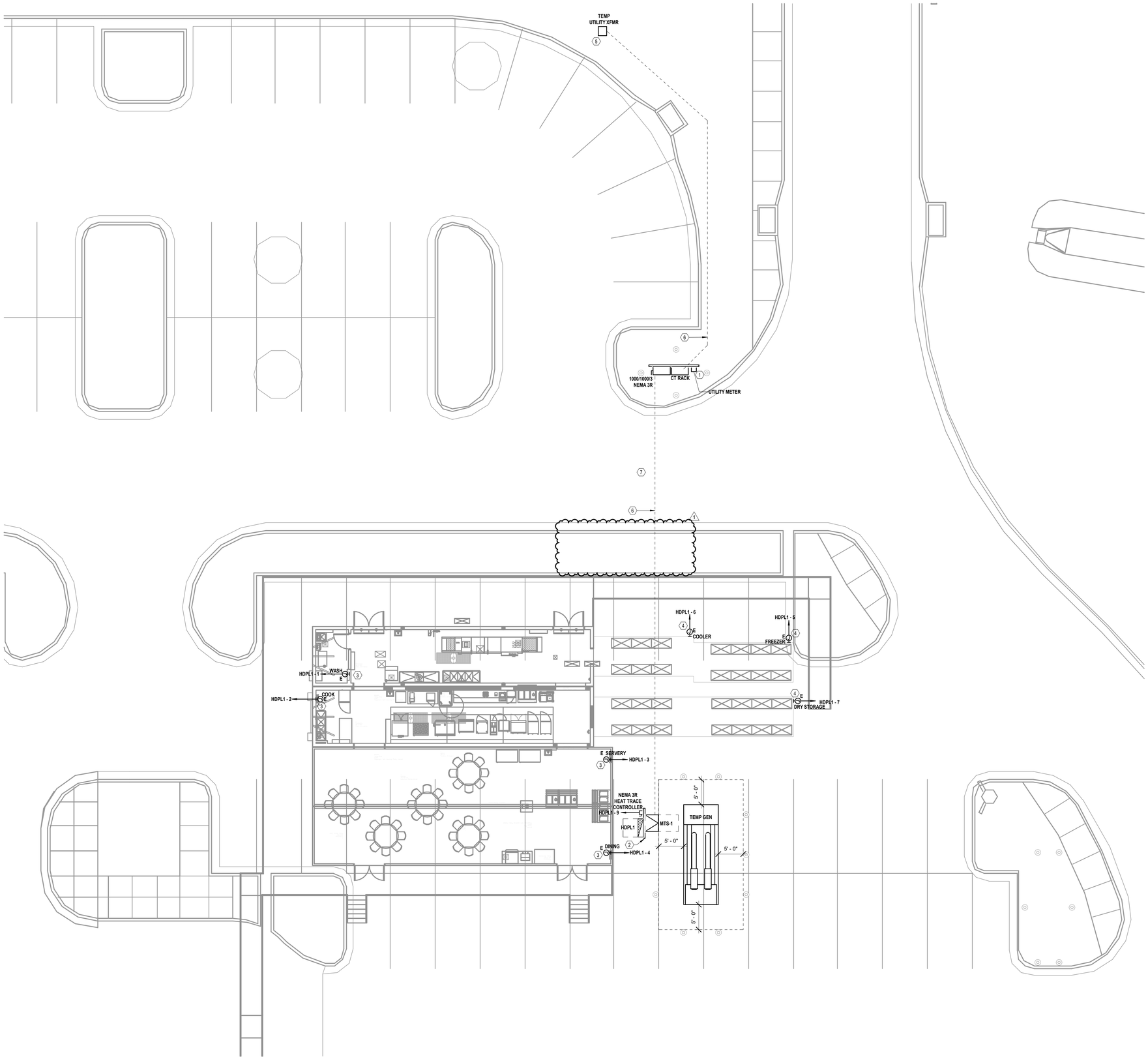
REV #	DESCRIPTION	DATE
A	CITY 2ND REVIEW	2025/07/03

DATE:	05/23/25
SCALE:	As indicated
DRAWN:	Author
REVIEWED:	Checker
JOB NUMBER:	6406.24.0001

GENERAL INFORMATION - ELECTRICAL

E00-00

6/30/2025 11:19:51 AM Autodesk Docs://6406.24 - HCA - Lee's Summit Medical Center (LSMC)_rvt23/MEP_LSMC TEMP KITCHEN_R23.rvt



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

GENERAL NOTES

A. REFER TO SHEET E00-00 FOR ELECTRICAL SYMBOLS APPEARING ON THIS SHEET AND ADDITIONAL GENERAL NOTES
B. REFER TO SHEET E08 SERIES FOR FEEDER SCHEDULES.
C. REFER TO AND COORDINATE WITH THE ARCHITECTURAL PLANS, ELEVATIONS, EQUIPMENT VENDOR DRAWINGS AND DETAILS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL WIRING DEVICES

LEGEND NOTES

1. COORDINATE METER LOCATION AND REQUIREMENTS WITH UTILITY COMPANY PRIOR TO INSTALLATION. REFER TO E07-01 FOR MORE INFORMATION.
2. PROVIDE (2) POWER PEDESTALS EQUAL TO PP-00-S EACH. UNISTRUT TO BE MOUNTED BETWEEN POWER PEDESTALS FOR ELECTRICAL FIXTURES AND EQUIPMENT INDICATED.
3. PROVIDE 208V/3PH POWER TO VENDOR PROVIDED KITCHEN UNIT. COORDINATE EXACT LOCATION AND CONNECTION REQUIREMENTS WITH VENDOR DRAWINGS PRIOR TO INSTALLATION. REFER TO E06-00 FOR ADDITIONAL INFORMATION.
4. PROVIDE 208V/1PH POWER TO VENDOR PROVIDED KITCHEN UNIT. COORDINATE EXACT LOCATION AND CONNECTION REQUIREMENTS WITH VENDOR DRAWINGS PRIOR TO INSTALLATION. REFER TO E06-00 FOR ADDITIONAL INFORMATION.
5. COORDINATE TEMPORARY POLE MOUNTED UTILITY TRANSFORMER REQUIREMENTS AND LOCATION WITH UTILITY COMPANY.
6. ROUTE CONDUIT UNDERGROUND FROM TEMP UTILITY TRANSFORMER TO CT RACK. TRENCH EXISTING PARKING LOT TO INSTALL NEW CONDUIT TO TEMPORARY DISTRIBUTION PANELBOARD 'HDPL1'. REFER TO DETAIL 01/E07-01.
7. CONTRACTOR TO COORDINATE PHASING OF FIRE LANE DURING CONSTRUCTION.

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Consultant:

wsp

STATE OF MISSOURI
MINDY SUSAN WIEBLER
NUMBER
PE-2017006125
PROFESSIONAL ENGINEER

10/21/2025
WSP USA Buildings Inc. 2013001881

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FACILITY NUMBER:
0972400009
FACILITY NUMBER 2

AGENCY APPROVALS:
AGENCY

REVISIONS

REV #	DESCRIPTION	DATE
1	ASI-001 - DESIGN COORDINATION	2025/10/21

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DRAWN:	Author
REVIEWED:	Checker
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FLOOR PLAN - LEVEL 01 - POWER

E02-01

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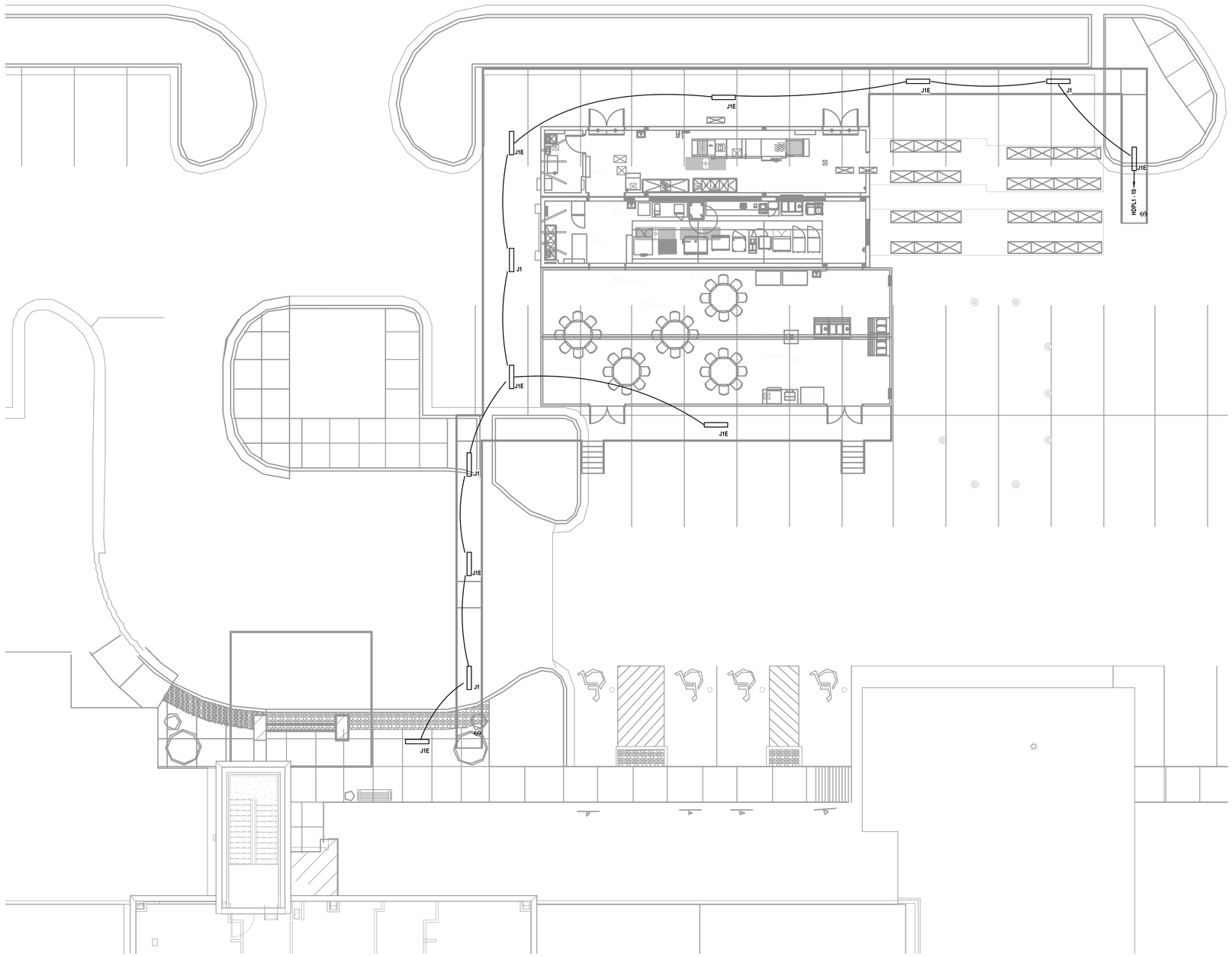

① FLOOR PLAN - LEVEL 01 - LIGHTING
1/8" = 1'-0"

GENERAL NOTES

A. REFER TO AND COORDINATE WITH ARCHITECTURAL PLANS, ELEVATIONS, EQUIPMENT VENDOR DRAWINGS AND DETAILS FOR EXACT LOCATIONS AND MOUNTING HEIGHT OF ALL WIRING DEVICES
B. REFER TO SHEET E00-00 FOR ELECTRICAL SYMBOLS APPEARING ON THIS SHEET AND ADDITIONAL GENERAL NOTES.
C. REFER TO SHEET E8-01 FOR LIGHT FIXTURE SCHEDULE.
D. CONTRACTORS SHALL USE FMC TRANSITIONS FROM EMT AT BUILDING EXPANSION JOINTS WHEN APPLICABLE. FMC ROUTING SHALL BE PROVIDED TO ALLOW LATERAL AND VERTICAL ADJUSTMENTS IN LINE WITH COORDINATE EXACT LOCATIONS OF EXPANSION JOINTS WITH ARCHITECTURAL DRAWINGS

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FLOOR PLAN - LEVEL 01 - LIGHTING

E03-01

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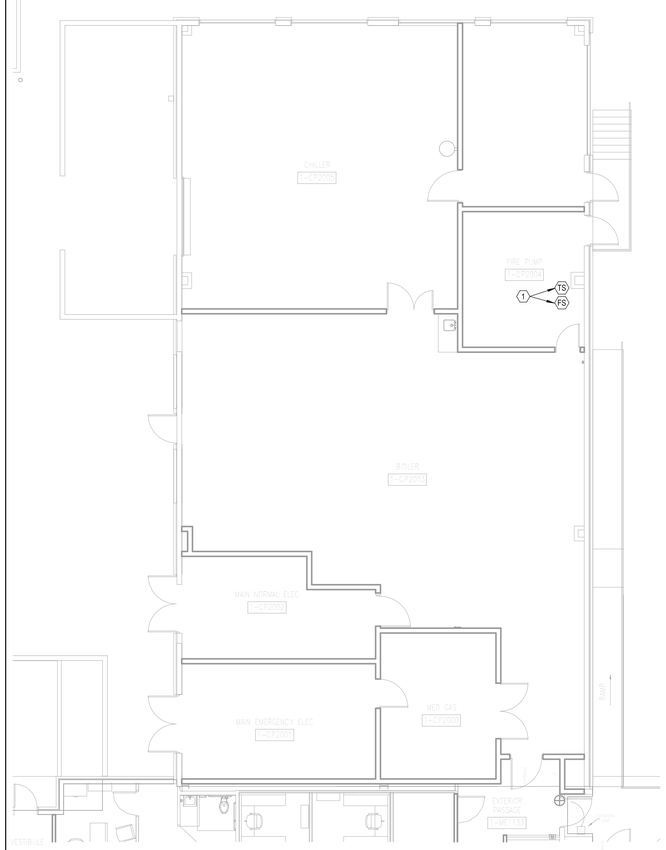
SYSTEM INPUTS	ALARM	SUPERVISORY	TROUBLE	REPORT TO FIRE ALARM CONTROL PANEL	SIGNAL SUPERVISING STATION	ACTIVATE GENERAL FIRE ALARM AUDIBLE/VISIBLE NOTIFICATION APPLIANCES	ACTIVATE FDC NOTIFICATION APPLIANCE	SHUTDOWN INDIVIDUAL FAN POWERED MECHANICAL AIR HANDLING EQUIPMENT AND DAMPER(S)	SHUTDOWN ALL FAN POWERED MECHANICAL AIR HANDLING EQUIPMENT FOR AFFECTED HVAC SYSTEM	CLOSE ASSOCIATED SMOKE DAMPER	SHUTDOWN TENANT AUDIO / VIDEO SYSTEM(S) IN COMMON AREAS	INITIATE ELEVATOR RECALL TO PRIMARY FLOOR	INITIATE ELEVATOR RECALL TO ALTERNATE FLOOR	INITIATE ELEVATOR SHUNT TRIP
SIGNALING LINE OR NOTIFICATION APPLIANCE CIRCUIT - OPEN			●	●	●									
SIGNALING LINE OR NOTIFICATION APPLIANCE CIRCUIT - SHORT			●	●	●									
SIGNALING LINE OR NOTIFICATION APPLIANCE CIRCUIT - GROUND			●	●	●									
FIRE ALARM CONTROL PANEL LOSS OF POWER			●		●									
MANUAL PULL STATION	●			●	●	●				●		●		
SMOKE DETECTOR - SPOT TYPE	●			●	●	●				●	●	●		
SMOKE DETECTOR - DUCT MOUNTED		●		●	●			●	●		●			
HEAT DETECTOR - SPOT TYPE	●			●	●	●				●		●		
WATERFLOW ALARM SWITCH	●			●	●	●	●			●		●		
VALVE TAMPER SWITCH		●		●	●									
LOW/HIGH AIR PRESSURE SWITCH		●		●	●									
KITCHEN HOOD SUPPRESSION SYSTEM	●			●	●	●				●		●		

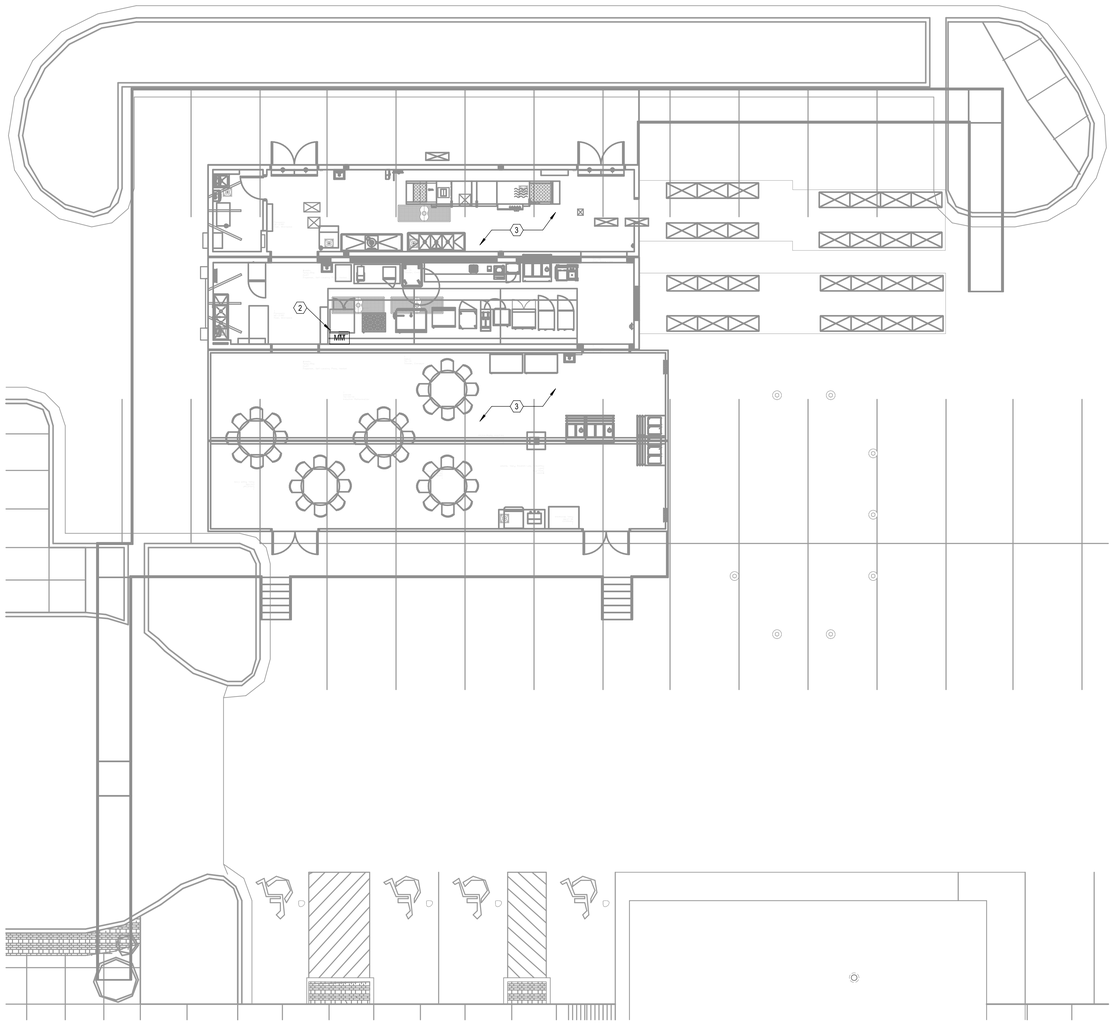
CONTRACTOR TO PROVIDE ALL NECESSARY EQUIPMENT AND CONNECTIONS REQUIRED TO ACCOMPLISH THE FUNCTIONS INDICATED, AT MINIMUM.

SEQUENCE OF OPERATIONS INDICATED IS SCHEMATIC. MODIFY TO SUIT CONDITIONS AND MEET APPLICABLE CODE REQUIREMENTS.

3 FIRE ALARM SEQUENCE OF OPERATIONS
12" = 1'-0"



1 FLOOR PLAN - LEVEL 01 - CENTRAL PLANT - SPECIAL SYSTEMS
1/8" = 1'-0"



2 FLOOR PLAN - LEVEL 01 - SPECIAL SYSTEMS
1/8" = 1'-0"

GENERAL NOTES

A. REFER TO SHEET E00-00 FOR ELECTRICAL SYMBOLS APPEARING ON THIS SHEET AND ADDITIONAL GENERAL NOTES.
B. DO NOT SCALE DEVICE LOCATIONS FROM THESE DRAWINGS. REFER TO AND COORDINATE WITH THE ARCHITECTURAL DOCUMENTS. SPECIFICALLY, REFER TO ARCHITECTURAL PLANS, ELEVATIONS, AND DETAILS FOR SPECIALTY
C. DELEGATED DESIGN OF FIRE ALARM. REFER TO DIVISION 28 SPECIFICATION SECTION FOR ADDITIONAL SYSTEM REQUIREMENTS. FIRE ALARM INITIATING DEVICES, NOTIFICATION APPLIANCES, CONTROL PANELS, ANNUNCIATOR PANELS, AND OTHER PERIPHERAL DEVICES SHOWN ON THESE DOCUMENTS DO NOT CONSTITUTE THE TOTAL QUANTITY OR TYPE OF DEVICES REQUIRED FOR THE WORK. THE DEVICES AND EQUIPMENT INDICATED ON THESE DOCUMENTS IS SHOWN FOR THE PURPOSE OF COORDINATION ONLY. THESE DRAWINGS AND THE ACCOMPANYING SPECIFICATIONS DEFINE THE SCOPE AND INTENT OF THE FIRE ALARM SYSTEM TO BE PROVIDED IN THE WORK. IN ADDITION TO THE SYSTEM AS SHOWN HEREIN AND SPECIFIED IN THE PROJECT MANUAL, THE LICENSED FIRE ALARM CONTRACTOR SHALL PROVIDE ALL PLANNING, DESIGN, CALCULATIONS, EQUIPMENT, DEVICES, RACEWAYS, BOXES, CABLING, SYSTEM PROGRAMMING AND ANY OTHER COMPONENT OR SERVICE REQUIRED FOR A COMPLETE, FULLY OPERATIONAL SYSTEM THAT MEETS ALL SPECIFIED REQUIREMENTS AND LOCAL CODES.
D. PROVIDE EQUIPMENT AND CONNECTION(S) REQUIRED TO MONITOR KITCHEN HOOD SUPPRESSION SYSTEM(S).

LEGEND NOTES

1. CONNECT MOBILE KITCHEN FIRE SPRINKLER MONITORING DEVICES TO FIRE ALARM SYSTEM. COORDINATE QUANTITY AND LOCATION OF DEVICES WITH FIRE PROTECTION SYSTEMS.
2. PROVIDE EQUIPMENT AND CONNECTIONS TO MONITOR KITCHEN HOOD SUPPRESSION SYSTEM.
3. CONTRACTOR TO CONNECT MODULAR KITCHEN FIRE ALARM SYSTEM TO THE HOSPITAL'S EXISTING FIRE ALARM SYSTEM. COORDINATE INTEGRATION, COMPATABILITY, AND ALL EQUIPMENT ASSOCIATED FOR THE FIRE ALARM SYSTEM WITH THE FACILITY AND VENDOR. FINAL INSTALLATION SHALL BE COMPLIANT WITH ALL APPLICABLE CODES.

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06/12/2025
WSP USA Buildings Inc. 2013001881

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MISSOURI DHSS

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FACILITY NUMBER:
0972400009
FACILITY NUMBER 2

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

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REVIEWED:	Checker
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FLOOR PLAN - LEVEL 01 - SPECIAL SYSTEMS

E04-01

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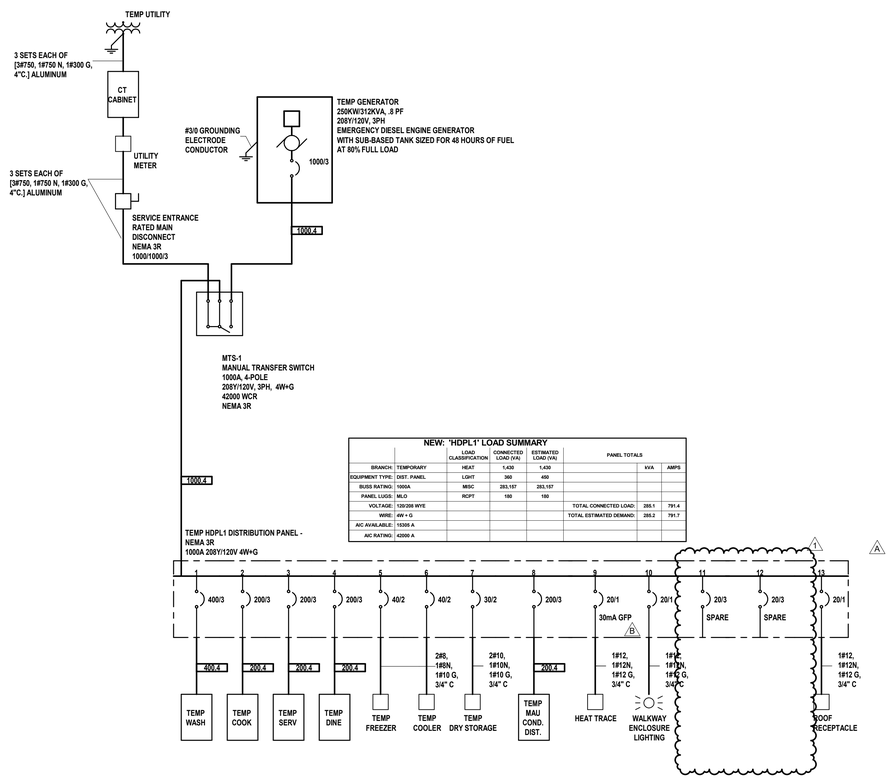
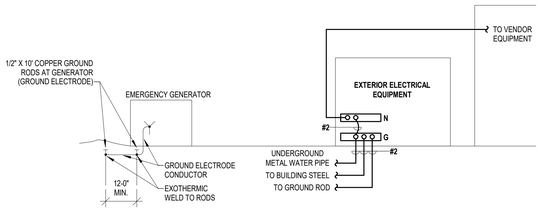


NEW: "HDPL1" LOAD SUMMARY

		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED LOAD (VA)	PANEL TOTALS		
BRANCH:	TEMPORARY	HEAT	1,430	1,430		KVA	AMPS
EQUIPMENT TYPE:	DIST. PANEL	LGHT	360	450			
BUSS RATING:	1000A	MISC	283,157	283,157			
PANEL LUGS:	MLO	RCPT	180	180			
VOLTAGE:	120/208 WYE				TOTAL CONNECTED LOAD:	285.1	791.4
WIRE:	4W + G				TOTAL ESTIMATED DEMAND:	285.2	791.7
AIC AVAILABLE:	15305 A						
AIC RATING:	42000 A						

1 TEMP ONE-LINE DIAGRAM
1/8" = 1'-0"



2 GROUNDING RISER
N.T.S.

GENERAL NOTES:

A. THIS DETAIL IS DIAGRAMMATIC IN NATURE AND DOES NOT SHOW ALL ELECTRICAL EQUIPMENT OR GROUNDING COMPONENTS. REFER TO DIVISION 26 SECTION "GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS", NFPA 70 AND IEEE C2 FOR ADDITIONAL REQUIREMENTS.
B. ALL CONDUCTOR SIZES ARE BASED ON COPPER CONDUCTORS.
C. EXISTING COMPONENTS MAY BE USED IF THEY MEET REQUIREMENTS SPECIFIED IN THIS DETAIL.

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PROFESSIONAL ENGINEER

10/21/2025
WSP USA Buildings Inc: 2013001881

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FACILITY NUMBER:
09724000 09
FACILITY NUMBER 2

AGENCY APPROVALS:
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REV #	DESCRIPTION	DATE
A	CITY 2ND REVIEW	2025/07/03
B	DESIGN COORDINATION	2025/07/03
1	ASI-001 - DESIGN COORDINATION	2025/10/21

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DRAWN:	Author
REVIEWED:	Checker
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ONE LINE DIAGRAM - ELECTRICAL

E06-00

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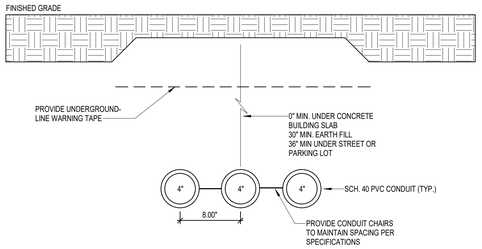
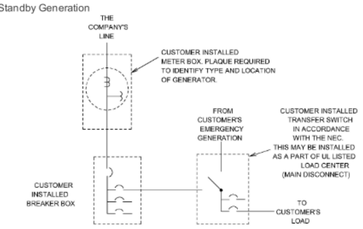


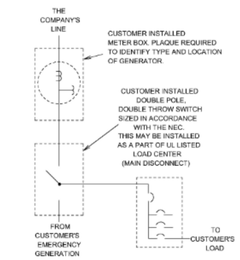
1 DIRECT BURY FEEDER DETAIL
N.T.S.

evergy

10.39 – Standby Generation



TRANSFER SWITCH "PARTIAL LOAD"



DOUBLE THROW SWITCH "FULL LOAD"

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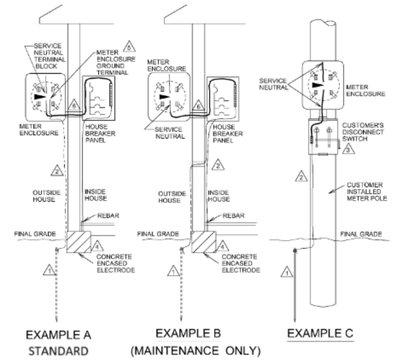
10.2 – Grounding Diagrams



Notes:

1. Customer to install adequate grounding for service entrance according to NEC 250. This may consist of a 5/8" diameter by 8 ft. steel copper clad ground rod that is driven vertically the entire length into undisturbed earth with #6 solid copper wire connected between the ground rod and the meter enclosure (or disconnect device) if concrete encased electrode is not available, NEC 250.52(A)(5)(b). Ground rod to be located exterior to house; consult local inspection authorities.
2. All examples are acceptable to the NEC, NESC and Company. New construction for buildings shall follow Example A. However, customer/developer should first check with the local code authority to determine the example that the local code authority also requires.

evergy

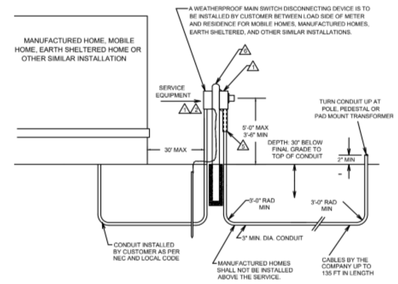
3. Weather proof breaker panel may be substituted for disconnect as long as it complies with the NEC.
4. Concrete encased electrode as specified in NEC 250.52(A)(3) (if applicable)
5. Grounding electrode conductor connection shall be made in the house breaker panel if the meter enclosure ground terminal is not available.
6. Equipment grounding shall not be installed between the meter and the house breaker panel per NEC 100 definition egc.

GENERAL NOTES

A. EVERGY UTILITY DETAILS FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR OBTAINING LATEST INFORMATION DIRECTLY FROM EVERGY.

evergy

10.23 – Service to Mobile and Earth Sheltered Homes



Notes:

1. Customer will supply Company approved meter socket. Customer/developer shall supply all equipment except the meter and cable from the meter to Company facilities. Commercially available U.L. listed meter pedestal with main breaker may be acceptable. Contact the Company's local service center for approval.
2. Service equipment shall be grounded. See section 10.2 for details.
3. Customer/developer shall provide all trenching, backfill and furnish and install NEC approved rigid conduit from the meter to pole, padmount transformer, or easement.
4. The customer/developer shall coordinate the installation of the service conduit with Company crews during installation of primary cable, transformers, and pedestals.
5. Conduit size shall be a minimum of 3" for services. Customer/developer shall install approved slip joint on conduit to allow for ground movement NEC 300.5(J).
6. Refer to Meter and Stand Drawing 10.15.
7. Depth to top of conduit shall be a minimum of 30 inches below final grade. Where rock or extenuating circumstances are encountered see section 10.18. In all cases the installation shall conform to NEC, NESC, local codes and this standard.
8. The customer/developer's conduit shall be installed in a straight line if possible. If horizontal turns are required, they shall not exceed equivalent of one 90-degree turn.
9. The customer/developer shall install a pull tape in the conduit. If the customer/developer's pull tape breaks, it is the customer/developer's responsibility to pull in a new one.
10. The Company will install and own one set of service cables up to 135 feet in length from the pole, secondary pedestal, or padmount transformer of the Company distribution system to the customer/developer's meter enclosure.
11. Meter may be installed on manufactured home (at a height of 5'-0" to 3'-6") as long as it has been bolted to a permanent foundation with its wheel & axles removed & permanently attached to all utilities. NEC 50.23(B). Meter may also be installed on the front of an earth sheltered or similar home.
12. Manufactured home shall not be located above the service. This is a safety hazard when manufactured home tie down anchors are installed.
13. The customer/developer may purchase and install a pre-fabricated pedestal that includes the meter socket, main disconnect with protective devices, and (optional) receptacles as a combination unit in lieu of using separate components. If such a pedestal is used, the Company must approve it in advance

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06/12/2025
WSP USA Buildings Inc. 2013001881

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MODULAR INTERIM KITCHEN COMPLEX

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY, LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

AUTHORITY HAVING JURISDICTION'S PROJECT NO:
AHJ PROJECT-CASE NUMBER
AHJ PROJECT-CASE NUMBER 2

FACILITY NUMBER:
0972400009
FACILITY NUMBER 2

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	05/23/25
SCALE:	N.T.S.
DRAWN:	Author
REVIEWED:	Checker
JOB NUMBER:	6406.24.0001

DETAILS - ELECTRICAL

E07-01

Notice of Alternate Billing or Payment Cycle: The Owner may plan to make payments on an alternative schedule. A written description of such billing or payment cycle applicable to the Project is available from the Owner or the Owner's designated agent upon request.

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ELECTRICAL LUMINAIRE FIXTURE SCHEDULE

TYPE	PHYSICAL DESCRIPTION							ELECTRICAL SPECIFICATIONS								MANUFACTURER INFORMATION		
	DESCRIPTION	LOCATION	HOUSING	REFLECTOR	SHIELDING	FINISH	MOUNTING	COLOR TEMP	LAMP	LUMENS	HOURS	VA	UNITS	BALLAST / DRIVER	VOLTAGE	MANUFACTURER	CATALOG NUMBER	REMARKS
J1	4'-0" LED LOW PROFILE LENSED STRIPLIGHT WITH DROP LENS FOR 10% UPLIGHT	ENLCOSED WALKWAY	20 GA. HEAVY DUTY STEEL HOUSING	N/A	COLD ROLLED STEEL	WHITE FINISH, PAINTED AFTER FABRICATION	SURFACE	4,000	LED	3,000	50000	30	EACH	LED DRIVER - LINEAR DIMMING 0-10V DOWN TO 1%	120	LITHONIA	#ZL1D L48 3000LM FST MVOLT 40K 80CRI	
J1E	SIMILAR TO TYPE J1 WITH BATTERY BACK UP	ENLCOSED WALKWAY	20 GA. HEAVY DUTY STEEL HOUSING	N/A	COLD ROLLED STEEL	WHITE FINISH, PAINTED AFTER FABRICATION	SURFACE	4,000	LED	3,000	50000	30	EACH	LED DRIVER - LINEAR DIMMING 0-10V DOWN TO 1%	120	LITHONIA	#ZL1D L48 3000LM FST MVOLT 40K 80CRI E10W	

COPPER FEEDER SCHEDULE
600V MAX.

FEEDER TAG & AMPERE RATING	FEEDER DESCRIPTION
15.3, 20.3 15.4, 20.4	3#12, 1#12 G, 3/4" C 3#12, 1#12 N, 1#12 G, 3/4" C
25.3, 30.3 25.4, 30.4	3#10, 1#10 G, 3/4" C 3#10, 1#10 N, 1#10 G, 3/4" C
35.3, 40.3 35.4, 40.4	3#8, 1#10 G, 3/4" C 3#8, 1#8 N, 1#10 G, 3/4" C
45.3, 50.3 45.4, 50.4	3#6, 1#10 G, 3/4" C 3#6, 1#6 N, 1#10 G, 1" C
60.3 60.4	3#4, 1#10 G, 1" C 3#4, 1#4 N, 1#10 G, 1 1/4" C
70.3 70.4	3#4, 1#8 G, 1" C 3#4, 1#4 N, 1#8 G, 1-1/4" C
80.3 80.4	3#3, 1#8 G, 1-1/4" C 3#3, 1#3 N, 1#8 G, 1-1/4" C
90.3 90.4	3#2, 1#8 G, 1-1/4" C 3#2, 1#2 N, 1#8 G, 1-1/4" C
100.3 100.4	3#1, 1#8 G, 1-1/4" C 3#1, 1#1 N, 1#8 G, 1-1/2" C
110.3 110.4	3#1, 1#6 G, 1-1/4" C 3#1, 1#1 N, 1#6 G, 1-1/2" C
125.3, 150.3 125.4, 150.4	3#1/0, 1#6 G, 1-1/2" C 3#1/0, 1#1/0 N, 1#6 G, 2" C
175.3 175.4	3#2/0, 1#6 G, 2" C 3#2/0, 1#2/0 N, 1#6 G, 2" C
200.3 200.4	3#3/0, 1#6 G, 2" C 3#3/0, 1#3/0 N, 1#6 G, 2" C
225.3 225.4	3#4/0, 1#4 G, 2" C 3#4/0, 1#4/0 N, 1#4 G, 2-1/2" C
250.3 250.4	3#250KCM, 1#4 G, 2-1/2" C 3#250KCM, 1-250KCM N, 1#4 G, 2-1/2" C
300.3 300.4	3#350KCM, 1#4 G, 2-1/2" C 3#350KCM, 1-350KCM N, 1#4 G, 3" C
350.3 350.4	3#500KCM, 1#3 G, 3" C 3#500KCM, 1-500KCM N, 1#3 G, 3-1/2" C
400.3 400.4	2 SETS EACH OF [3#3/0, 1#3 G, 2" C] 2 SETS EACH OF [3#3/0, 1#3/0 N, 1#3 G, 2-1/2" C]
450.3 450.4	2 SETS EACH OF [3#4/0, 1#2 G, 2" C] 2 SETS EACH OF [3#4/0, 1#4/0 N, 1#2 G, 2-1/2" C]
500.3 500.4	2 SETS EACH OF [3#250KCM, 1#2 G, 2-1/2" C] 2 SETS EACH OF [3#250KCM, 1#250KCM N, 1#2 G, 2-1/2" C]
600.3 600.4	2 SETS EACH OF [3#350KCM, 1#1 G, 2-1/2" C] 2 SETS EACH OF [3#350KCM, 1#350KCM N, 1#1 G, 3" C]
700.3 700.4	2 SETS EACH OF [3#500KCM, 1#1/0 G, 3" C] 2 SETS EACH OF [3#500KCM, 1#500KCM N, 1#1/0 G, 3-1/2" C]
800.3 800.4	3 SETS EACH OF [3#300KCM, 1#1/0 G, 3" C] 3 SETS EACH OF [3#300KCM, 1#300KCM N, 1#1/0 G, 3" C]
900.3 900.4	3 SETS EACH OF [3#350KCM, 1#2/0 G, 3" C] 3 SETS EACH OF [3#350KCM, 1#350KCM N, 1#2/0 G, 3" C]
1000.3 1000.4	3 SETS EACH OF [3#400KCM, 1#2/0 G, 3" C] 3 SETS EACH OF [3#400KCM, 1#400KCM N, 1#2/0 G, 3" C]
1200.3 1200.4	4 SETS EACH OF [3#350KCM, 1#3/0 G, 3" C] 4 SETS EACH OF [3#350KCM, 1#350KCM N, 1#3/0 G, 3" C]
1400.3 1400.4	4 SETS EACH OF [3#500KCM, 1#4/0 G, 3" C] 4 SETS EACH OF [3#500KCM, 1#500KCM N, 1#4/0 G, 3-1/2" C]
1600.3 1600.4	5 SETS EACH OF [3#400KCM, 1#4/0 G, 3" C] 5 SETS EACH OF [3#400KCM, 1#400KCM N, 1#4/0 G, 3" C]
2000.3 2000.4	6 SETS EACH OF [3#400KCM, 1#250KCM G, 3" C] 6 SETS EACH OF [3#400KCM, 1#400KCM N, 1#250KCM G, 3" C]
2500.3 2500.4	7 SETS EACH OF [3#500KCM, 1#350KCM G, 3-1/2" C] 7 SETS EACH OF [3#500KCM, 1#500KCM N, 1#350KCM G, 3-1/2" C]
3000.3 3000.4	8 SETS EACH OF [3#500KCM, 1#400KCM G, 3" C] 8 SETS EACH OF [3#500KCM, 1#500KCM N, 1#400KCM G, 3-1/2" C]
4000.3 4000.4	11 SETS EACH OF [3#500KCM, 1#500KCM G, 3-1/2" C] 11 SETS EACH OF [3#500KCM, 1#500KCM N, 1#500KCM G, 3-1/2" C]

ALUMINUM FEEDER SCHEDULE
600V MAX.

FEEDER TAG & AMPERE RATING	FEEDER DESCRIPTION
110.3A 110.4A	3#1/0, 1#4G, 1-1/2"C. 3#1/0, 1#1/0 N, 1#4 G, 1-1/2" C. *
125.3A 125.4A	3#2/0, 1#4G, 1-1/2"C. 3#2/0, 1#2/0 N, 1#4 G, 2"C.
150.3A 150.4A	3#3/0, 1#4G, 2"C. 3#3/0, 1#3/0 N, 1#4 G, 2"C.
175.3A 175.4A	3#4/0, 1#4G, 2"C. 3#4/0, 1#4/0 N, 1#4 G, 2"C. *
200.3A 200.4A	3#250, 1#4G, 2"C. 3#250, 1#250 N, 1#4 G, 2-1/2"C.
225.3A 225.4A	3#300, 1#2G, 2-1/2"C. 3#300, 1#300 N, 1#2 G, 2-1/2"C. *
250.3A 250.4A	3#350, 1#2G, 2-1/2"C. 3#350, 1#350 N, 1#2 G, 3"C.
300.3A 300.4A	3#500, 1#2G, 3"C. 3#500, 1#500 N, 1#2 G, 3"C.
350.3A 350.4A	3#700, 1#1G, 3-1/2"C. 3#700, 1#700 N, 1#1 G, 4"
400.3A 400.4A	2 SETS EACH OF [3#250, 1#1G, 2"C.] * 2 SETS EACH OF [3#250, 1#250 N, 1#1 G, 2-1/2"C.]
450.3A 450.4A	2 SETS EACH OF [3#300, 1#1/0G, 2-1/2"C.] 2 SETS EACH OF [3#300, 1#300 N, 1#1/0 G, 2-1/2"C.] *
500.3A 500.4A	2 SETS EACH OF [3#350, 1#1/0G, 2-1/2"C.] 2 SETS EACH OF [3#350, 1#350 N, 1#1/0 G, 3"C.]
600.3A 600.4A	2 SETS EACH OF [3#500, 1#2/0G, 3"C.] 2 SETS EACH OF [3#500, 1#500 N, 1#2/0 G, 3"C.] *
700.3A 700.4A	2 SETS EACH OF [3#700, 1#3/0G, 3"C.] * 2 SETS EACH OF [3#700, 1#700 N, 1#3/0 G, 3-1/2"C.] *
800.3A 800.4A	3 SETS EACH OF [3#400, 1#3/0G, 2-1/2"C.] * 3 SETS EACH OF [3#400, 1#400 N, 1#3/0 G, 3"C.]
900.3A 900.4A	3 SETS EACH OF [3#500, 1#4/0G, 3"C.] 3 SETS EACH OF [3#500, 1#500 N, 1#4/0 G, 3"C.] *
1000.3A 1000.4A	3 SETS EACH OF [3#600, 1#4/0G, 3"C.] 3 SETS EACH OF [3#600, 1#600 N, 1#4/0 G, 3-1/2"C.]
1200.3A 1200.4A	4 SETS EACH OF [3#500, 1#250G, 3"C.] 4 SETS EACH OF [3#500, 1#500 N, 1#250 G, 3"C.] *
1400.3A 1400.4A	4 SETS EACH OF [3#700, 1#350G, 3-1/2"C.] 4 SETS EACH OF [3#700, 1#700 N, 1#350 G, 4"C.]
1600.3A 1600.4A	5 SETS EACH OF [3#600, 1#350G, 3"C.] * 5 SETS EACH OF [3#600, 1#600 N, 1#350 G, 3-1/2"C.]
2000.3A 2000.4A	6 SETS EACH OF [3#600, 1#400G, 3"C.] * 6 SETS EACH OF [3#600, 1#600 N, 1#400 G, 3-1/2"C.] *
2500.3A 2500.4A	7 SETS EACH OF [3#700, 1#600G, 3-1/2"C.] 7 SETS EACH OF [3#700, 1#700 N, 1#600 G, 4"C.]
3000.3A 3000.4A	8 SETS EACH OF [3#700, 1#600G, 3-1/2"C.] 8 SETS EACH OF [3#700, 1#700 N, 1#600 G, 4"C.]
4000.3A 4000.4A	10 SETS EACH OF [3#900, 1#800G, 3-1/2"C.] 10 SETS EACH OF [3#900, 1#900 N, 1#800 G, 4"C.]
NOTE:	* SCHEDULE 80, WHERE PERMITTED BY SPECIFICATIONS, SHALL BE INCREASED ONE CONDUIT SIZE FROM THE SIZE INDICATED IN THE FEEDER DESCRIPTION ABOVE.

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STATE OF MISSOURI
MINDY SUSAN WHEELER
NUMBER PE-2017000128
PROFESSIONAL ENGINEER

06/12/2025
WSP USA Buildings Inc. 2013001881

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MODULAR
INTERIM
KITCHEN
COMPLEX

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY, LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

AUTHORITY HAVING JURISDICTION'S PROJECT NO:
AHJ PROJECT-CASE NUMBER
AHJ PROJECT-CASE NUMBER 2

FACILITY NUMBER:
0972400009
FACILITY NUMBER 2

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	05/19/25
SCALE:	N.T.S.
DRAWN:	Author
REVIEWED:	Checker
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SCHEDULES - ELECTRICAL

E08-01

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OUTLET SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR ON ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

= DESIGNATES CABLE/JACK COUNT FOR DEVICE

SYMBOL	DESCRIPTION	MTG. HEIGHT U.N.O. (NOTE 1)
#	HOSPITAL DATA NETWORK ONLY OUTLET	18" AFF
W OR W	VOICE AND/OR DATA OUTLET, WALL PHONE STYLE FACEPLATE, 1 VOICE/DATA CABLE. PROVIDE DOUBLE GANG BACK, 2 1/8" DEEP, WITH SINGLE GANG DEVICE COVER AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.	48" AFF
	ABOVE COUNTER OUTLET, #=CABLE QUANTITY, MOUNTED ABOVE THE COUNTERTOP. PROVIDE DOUBLE GANG BACK BOX, 2 1/8" DEEP, WITH SINGLE GANG DEVICE COVER AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.	42" AFF
	FLOOR MOUNTED OUTLET, #=CABLE QUANTITY. REFER TO ELECTRICAL (E) SHEETS FOR ADDITIONAL ROUGH IN REQUIREMENTS.	FLOOR
	CEILING MOUNTED OUTLET, #=CABLE QUANTITY. OUTLET TO BE HOUSED ABOVE ACCESSIBLE CEILING. CABLE TO LOCATION SHOWN ON THE FLOOR PLANS AND LEAVE A MINIMUM 25 FEET COILED AT THE LOCATION.	ABOVE ACCESSIBLE CEILING
WAP #	DATA OUTLET FOR WIRELESS ACCESS POINT DEVICE, #=CABLE QUANTITY. OUTLET TO BE HOUSED ABOVE ACCESSIBLE CEILING UNLESS NOTED OTHERWISE. CABLE TO LOCATION SHOWN ON THE FLOOR PLANS WITH A MINIMUM 25 FEET COILED AT THE DEVICE LOCATION. CONTRACTOR SHALL RELOCATE OUTLETS AND MOUNT DEVICE PER OWNER'S IT WIRELESS SURVEY.	ABOVE ACCESSIBLE CEILING

VOICE/DATA NOTES:
1. VOICE, DATA, AND/OR COMBONATION OUTLET, #=OUTLET/CABLE QUANTITY, PROVIDE DOUBLE GANG DEVICE BACK BOX, 2 1/8" DEEP, WITH SINGLE GANG DEVICE COVER AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.
2. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS OF ALL DEVICES.
3. CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHTS OF OUTLETS FOR TELEVISIONS, INFO. MONITORS, DIGITAL SIGNAGE, AND/OR OTHER WALL MOUNTED MONITORS WITH VENDOR PROVIDED MOUNTING BRACKET PRIOR TO ROUGH IN.
4. 48" AFF INDICATES TO TOP OF DEVICE;
   18" AFF INDICATES TO CENTER OF DEVICE;
   60" AFF INDICATES TO BOTTOM OF DEVICE;
   80" AFF INDICATES TO BOTTOM OF DEVICE;
   ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.
5. SOME DEVICES MAY HAVE SPECIAL DESCRIPTORS (MEDS, PTS, ETC.) CALLING OUT EQUIPMENT SERVED BY OUTLET. SEE ABBREVIATIONS FOR REFERENCE.

VIDEO SURVEILLANCE SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR ON ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION				BACK BOX	MTG. HEIGHT UNO (NOTE 1)
	M=MOUNTING TYPE			T=TECHNOLOGY (CAMERA TYPE)		CEILING OR WALL MOUNT
ZZZ M T EXAMPLE	C - CEILING M - MULLION PE - PENDANT T - TURNSTILE	D - DESK P - POLE R - RACK W - WALL	F - FLUSH PA- PARAPET S - SURFACE CO- CORNER	- SPECIFIC TO DEVICE - CAN BE MULTIPLE - SHOWN BELOW FOR EACH CAMERA ZZZ = FIELD OF VIEW	XX	
M T	**STATIONARY CAMERA** E - ENVIRONMENTAL P - POE F - FISHEYE		C - COVERT D - DOME V - VANDAL RESISTANT			AS REQD.

VIDEO SURVEILLANCE NOTES:
1. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS OF ALL WALL MOUNTED DEVICES.
2. REFER TO FLOOR PLANS FOR DEVICE LOCATION LAYOUT.
3. REFER TO ENLARGED COMM ROOM LAYOUT AND TYPICAL EQUIPMENT RACK LAYOUTS FOR EXACT PLACEMENT OF HEADEND EQUIPMENT.

ABBREVIATIONS

ACP	ACCESS CONTROL PANEL
AFC	ABOVE FINISHED COUNTER
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AMP	OVERHEAD PAGING AMPLIFIER
AV	AUDIO VISUAL DEVICE/EQUIP (COORDINATE OUTLET INSTALLATION WITH AV VENDOR)
BAS/BMS	BUILDING AUTOMATION/MANAGEMENT SYSTEM (COORDINATE OUTLET INSTALLATION WITH BMS VENDOR)
BFC	BELOW FINISHED CEILING
BVC	BABY VIEWING CAMERA DEVICE
CAB	CABINET
CCI	WALL MOUNTED "CCI" WORKSTATION (IF APPLICABLE)
CLK	WALL CLOCK
CPU	COMPUTER WORKSTATION
CT	CABLE TRAY
DAS	DISTRIBUTED ANTENNA SYSTEM
DEMARC	DEMARCATION ROOM
DIA	DIAMETER
EMT	ELECTRICAL METAL TUBING
EQ	EQUIPMENT
EV	ELECTRIC VEHICLE CHARGING STATION
(EX)	EXISTING
FM	FETAL MONITORING
HUGS	INFANT PROTECTION SYSTEM
IDF	INTERMEDIATE DISTRIBUTION FRAME (SEE TDR)
INFO	INFORMATION MONITOR
LV	LOW VOLTAGE
MAX	MAXIMUM
MDF	MAIN DISTRIBUTION FRAME (SEE TEC)
MEDS	MEDICATION DISTRIBUTION EQUIPMENT
MFR	MANUFACTURER
MIN	MINIMUM
MON	MONITOR
NA	NOT APPLICABLE
NC	NURSE CALL
NTS	NOT TO SCALE
OR INT	OPERATING ROOM INTEGRATION EQUIPMENT (COORDINATE INSTALLATION WITH OR INT. VENDOR)
PACS	PACS VIEWING STATION
PM	PHYSIOLOGICAL/PATIENT MONITORING
PROX	WALL MOUNTED "PROXIMITY SYSTEMS" WORKSTATION (IF APPLICABLE)
PTS	PNUEMATIC TUBE SYSTEM (COORDINATE OUTLET INSTALLATION WITH PTS VENDOR)
PTV	PATIENT TELEVISION
RTLS	REAL-TIME LOCATING SYSTEM
TC	EMPLOYEE TIME CLOCK
TDR	TELECOMMUNICATIONS DISTRIBUTION ROOM (SEE IDF)
TEC	TELECOMMUNICATIONS EQUIPMENT CENTER (SEE MDF)
TELE	TELEMETRY SYSTEM
TRK	TRACKER MONITOR
TV	TELEVISION
UNO/UON	UNLESS NOTED OTHERWISE/UNLESS OTHERWISE NOTED
W	WALL PHONE
WAP	WIRELESS ACCESS POINT
WP	WEATHERPROOF
WRK	WALL MOUNTED WORKSTATION ON ARM

TECHNOLOGY GENERAL NOTES:

1. CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING THEIR PROPOSAL AND BECOME FAMILIAR WITH THE CONDITIONS UNDER WHICH THE WORK WILL BE PERFORMED, AND CORRELATE THEIR SITE OBSERVATIONS WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. INCONSISTENCIES DISCOVERED SHALL BE REPORTED TO THE ARCHITECT AND ENGINEER AT ONCE, BEFORE SUBMITTAL OF BID PROPOSAL.
2. ALL COMMUNICATIONS PRODUCTS AND INSTALLATIONS SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL CODES. REFER TO MANUFACTURER'S SPECIFICATIONS FOR MATERIALS AND METHODS FOR COMMUNICATIONS CONSTRUCTION.
3. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, PAY ALL FEES, AND COMPLY WITH ALL NATIONAL, STATE, AND MUNICIPAL LAWS, CODES, AND ORDINANCES RELATING TO BUILDING AND PUBLIC SAFETY.
4. CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT, AND LABOR REQUIRED FOR A COMPLETE WORKING AND COORDINATED SYSTEM.
5. UNLESS OTHERWISE NOTED ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND U.L. LISTED OR LABELED. EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, AND LISTINGS OR LABELING REQUIREMENTS AND RESTRICTIONS. PROVIDE SUBMITTAL DATA AS DEPICTED IN THE COMMUNICATIONS SPECIFICATIONS.
6. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR APPROVAL OF ALL COMMUNICATIONS MATERIALS PROPOSED TO BE PROVIDED UNDER THIS CONTRACT. ANY DEVIATIONS FROM ITEMS SPECIFIED SHALL BE CLEARLY IDENTIFIED AND APPROVED. NO WORK IS AUTHORIZED WITHOUT SHOP DRAWINGS REVIEWED BY ENGINEER.
7. REFER TO AND COORDINATE WITH ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL DEVICES AND EQUIPMENT.
8. REFER TO AND COORDINATE WITH DIVISION 23 AND 26 FOR THE LOCATION OF ALL ITEMS LOCATED IN THE CEILING INCLUDING, BUT NOT LIMITED TO SUPPLY-AIR DIFFUSERS, RETURN-AIR DIFFUSERS AND FIRE SPRINKLER HEADS.
9. ALL PENETRATIONS THROUGH FIRE RATED WALLS OR PARTITIONS SHALL BE MADE IN ACCORDANCE WITH U.L. 483 "FIRE RESISTANCE DIRECTORY". PENETRATIONS SHALL BE SLEEVED AND SEALED WITH A UL APPROVED FIRE RATED SEALANT. REFER TO ARCHITECTURAL LIFE SAFETY PLANS FOR FIRE RATED WALL LOCATIONS.
10. CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL OUTAGES WITH OWNER'S REPRESENTATIVE.
11. CONTRACTOR SHALL WARRANTY WORK FOR ONE (1) YEAR FROM THE COMPLETION OF THE PROJECT AND PROVIDE OWNER WITH AS-BUILT DRAWINGS.
12. SPACE ALLOCATIONS FOR MATERIALS, EQUIPMENT AND DEVICES HAVE BEEN MADE ON THE BASIS OF PRESENT AND KNOWN FUTURE REQUIREMENTS AND THE DIMENSIONS OF ITEMS OF EQUIPMENT AND/OR DEVICES OF A PARTICULAR MANUFACTURER WHETHER INDICATED OR NOT. THE CONTRACTOR SHALL VERIFY THAT ALL MATERIALS, EQUIPMENT AND DEVICES PROPOSED FOR USE ON THIS PROJECT ARE WITHIN THE CONSTRAINTS OF THE ALLOCATED SPACE.
13. ALL EMPTY CONDUIT SYSTEMS SHALL CONTAIN A PULL WIRE FOR FUTURE PULLING OF CONDUCTORS.
14. DEVICES LOCATED WITHIN MECHANICAL/ELECTRICAL SPACES AND/OR CENTRAL UTILITY PLANT SHALL BE INSTALLED IN CONDUIT PATHWAYS FROM DEVICE LOCATION TO ACCESSIBLE CEILING SPACE WITHIN THE NEAREST CORRIDOR OR DIRECTLY TO IDF ROOM. CONDUIT PATHWAY MAY BE COMBINED INTO A JUNCTION POINT AND ROUTED THROUGH LARGER CONDUIT WHERE APPLICABLE. CONDUITS SHALL BE SIZED AT 40% FILL CAPACITY AT TIME OF INSTALLATION.
15. COMMUNICATIONS/LOW-VOLTAGE/SECURITY CABLING SHALL BE RATED FOR THE ENVIRONMENT THAT IT IS TO BE INSTALLED (CMP - PLENUM RATED SPACES, CMR - NON-PLENUM RATED SPACES, OUTDOOR RATED CABLING, ETC.) WHERE APPLICABLE.
16. ALL UNDER SLAB OR IN-SLAB CONDUITS SHALL BE INSTALLED IN A MANNER THAT PREVENTS WATER INFILTRATION OF THE CONDUIT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE GROUND WATER, RAIN WATER OR CONSTRUCTION WATER IS PREVENTED FROM ENTERING AND/OR REMOVED FROM THE CONDUITS PRIOR TO PLACEMENT OF COMMUNICATIONS CABLES. SEE ELECTRICAL SPECIFICATIONS, DETAILS AND PLANS FOR ADDITIONAL CONDUIT SEALING REQUIREMENTS.
17. ALL CONDUIT STUBS AND/OR EMT SLEEVES SHALL BE FITTED WITH PLASTIC PROTECTIVE BUSHINGS. BUSHINGS SHALL BE RATED FOR THE ENVIRONMENT THEY ARE TO BE INSTALLED.
18. ALL COMMUNICATIONS/LOW-VOLTAGE/SECURITY CONDUITS SIZED 2" OR LARGER SHALL HAVE A MINIMUM BEND RADIUS OF 10:1 OF THE INSIDE DIAMETER FOR ALL ELBOWS. ALL CONDUIT 2" OR SMALLER SHALL HAVE A MINIMUM BEND RADIUS OF 6:1 OF THE INSIDE DIAMETER FOR ALL ELBOWS.
19. CONDUITS 2" AND SMALLER GENERALLY DO NOT APPEAR ON DRAWINGS EXCEPT FOR SPECIFIC CONDITIONS, BUT ARE REQUIRED. REFER TO CONTRACT DOCUMENTS (INCLUDING SCHEDULES, SHEET NOTES, DETAILS AND SPECIFICATIONS) FOR ADDITIONAL INFORMATION.
20. SPACE ALLOCATIONS FOR MATERIALS, EQUIPMENT AND DEVICES HAVE BEEN MADE ON THE BASIS OF PRESENT AND KNOWN FUTURE REQUIREMENTS AND THE DIMENSIONS OF ITEMS OF EQUIPMENT OR DEVICES OF A PARTICULAR MANUFACTURER, WHETHER INDICATED OR NOT. THE CONTRACTOR SHALL VERIFY THAT ALL MATERIALS, EQUIPMENT AND DEVICES PROPOSED FOR USE ON THIS PROJECT ARE WITHIN THE CONSTRAINTS OF THE ALLOCATED SPACE.

TECHNOLOGY SYSTEMS EQUIPMENT AND STRUCTURED CABLING COORDINATION SCHEDULE

SYSTEM	EQUIPMENT			CABLING					ROUGH IN						GROUNDING
	EQUIPMENT FURNISHED BY	EQUIPMENT INSTALLED BY	TEST/CERTIFIED BY	CABLE FURNISHED BY	CABLE INSTALLED BY	CABLE TERMINATIONS BY	LABELED BY	TEST/CERTIFIED BY	CONDUIT SLEEVES BY (NOTE 2)	CONDUIT PATHWAYS BY (NOTE 3)	PRE-MANUFACTURED FIRE SLEEVE BY (NOTE 4)	BACK BOXES PROVIDED BY	BACK BOXES INSTALLED BY (NOTE 5)	FLOOR/WALL CORES/SLEEVES BY (NOTE 6)	CONNECTION TO TGB BY
IT&S SYSTEMS - VOICE/DATA															
IT&S/VOICE EQUIPMENT (WORKSTATION) (NOTE 9)	OWNER	OWNER	OWNER	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A
IT&S/DATA EQUIPMENT (WORKSTATION) (NOTE 9)	OWNER	OWNER	OWNER	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A
WIRELESS ACCESS POINT (WAP)	OWNER	DIV 27	OWNER	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A
IT&S/DATA EQUIPMENT (TEC/TDR)	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IT&S/VOICE EQUIPMENT (TEC/TDR)	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WORKSTATION / EQUIPMENT PATCH CORDS	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MEDICAL EQUIPMENT NETWORK CONNECTED DEVICES (NOTE 9)	OWNER	OWNER	OWNER	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A
TIME CLOCK (EMPLOYEE)	OWNER	GC	OWNER	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A
SECURITY SYSTEMS															
NVR/DVR	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	OWNER
SURVEILLANCE CAMERAS/MOUNTS/LICENSES	OWNER	OWNER	OWNER	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A
NETWORK SWITCHES	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	OWNER
PATCH CORDS	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ELECTRONIC ACCESS CONTROL SYSTEM	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 26	DIV 28	DIV 26	DIV 26	DIV 26	N/A
DOOR HARDWARE	DIV 08	DIV 08	DIV 08	DIV 08	DIV 08	DIV 08	DIV 08	N/A	N/A	DIV 26	N/A	DIV 26	DIV 26	N/A	N/A
WIRELESS PANIC BUTTON (IF APPLICABLE)	PB	PB	PB	N/A	N/A	N/A	PB	PB	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WIRED PANIC BUTTON (IF APPLICABLE)	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 26	DIV 28	DIV 26	DIV 26	N/A	N/A
INFANT PROTECTION	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	N/A
INTRUSION DETECTION	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 26	DIV 28	DIV 26	DIV 26	N/A	N/A
EMERGENCY (BLUE) PHONE	GC	GC	DIV 26/27	DIV 26/27	DIV 26/27	DIV 26/27	DIV 26/27	DIV 26/27	DIV 26/27	DIV 26	DIV 27	DIV 26	DIV 26	N/A	DIV 26
INTERCOM	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 26	DIV 28	DIV 26	DIV 26	DIV 26	N/A

NOTES:
1. ALL SYSTEMS SHOWN MAY NOT BE PRESENT IN PROJECT. REFER TO FLOOR PLANS FOR SYSTEMS INCLUDED IN PROJECT.
2. INCLUDES CONDUIT SLEEVES, NOT TO EXCEED 18" IN LENGTH, THROUGH GYPSUM PARTITIONS. SLEEVES EXCEEDING 18" IN LENGTH SHALL BE PROVIDED BY DIV 26 CONTRACTOR.
3. INCLUDES CONDUIT PATHWAY EXCEEDING 18 INCHES IN LENGTH. INCLUDES ALL NECESSARY CONNECTIONS, PULL BOXES, AND PLASTIC BUSHINGS.
4. INCLUDES PRE-MANUFACTURED FIRE SLEEVE SYSTEMS.
5. INCLUDES REQUIRED CONDUIT STUB UP TO ABOVE ACCESSIBLE CEILING SPACE.
6. INCLUDES SLEEVES THROUGH CONCRETE/MASONRY WALLS REQUIRING CORING OR LEAVE-OUTS.
7. CROSS ROOM SOUND CABLE TERMINATED BY NURSE CALL VENDOR AT PATIENT STATION. DIV 27 CONTRACTOR SHALL TERMINATE CROSS ROOM SOUND CABLE AT TV OUTLET AND PROVIDE FACEPLATE.
8. LIGHTING CONTROL CABLE TERMINATED BY NURSE CALL VENDOR AT PATIENT STATION. NURSE CALL VENDOR SHALL PROVIDE DIV 26 CONTRACTOR LIGHTING CONTROL RELAY. DIV 26 CONTRACTOR SHALL CONNECT RELAY WITH LIGHT.
9. VOICE/DATA WORKSTATION & MEDICAL EQUIPMENT DEVICES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:

A. PCS	B. PRINTERS (NETWORK, LASER, MULTIFUNCTION, LAB, SCRIPT, ETC.)	C. FAX MACHINES
D. COPIERS	E. TRACKER MONITORS	F. TIME CLOCK (EMPLOYEE)
G. WIRELESS ACCESS POINTS	H. TELEPHONE SETS	I. MED DISPENSERS
J. SCANNERS	K. LAB EQUIPMENT (STERILIZERS, ETC.)	L. POINT OF USE (POU) SCANNER
M. ULTRA SOUND MACHINE	N. ADDITIONAL MEDICAL EQUIPMENT	

ABBREVIATIONS:
- DIV 08 - DOOR HARDWARE CONTRACTOR
- DIV 26 - ELECTRICAL CONTRACTOR
- DIV 27 - COMMUNICATIONS CABLING CONTRACTOR
- DIV 28 - ELECTRONIC ACCESS CONTROL/SECURITY CONTRACTOR
- OWNER - OWNER OR OWNER'S VENDOR
- NC - NURSE CALL VENDOR
- PB - CENTURION PANIC BUTTON VENDOR
- ME - MEDICAL EQUIPMENT PLANNER
- TV - TELEVISION VENDOR
- SP - SERVICE PROVIDER
- GC - GENERAL CONTRACTOR
- PM - PHYSIOLOGICAL MONITORING VENDOR
- N/A - NOT APPLICABLE
- TEC - TELECOMMUNICATIONS EQUIPMENT ROOM / MDF
- TDR - TELECOMMUNICATIONS DISTRIBUTION ROOM / IDF

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PROFESSIONAL ENGINEER
05/23/2025
WSP USA Buildings Inc. 2013001881

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MODULAR INTERIM KITCHEN COMPLEX

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2100 SE BLUE PKWY, LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

AUTHORITY HAVING JURISDICTION'S PROJECT NO:
AHJ PROJECT-CASE NUMBER
AHJ PROJECT-CASE NUMBER 2

FACILITY NUMBER:
09724000009
FACILITY NUMBER 2

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	05/23/25
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DRAWN:	Author
REVIEWED:	Checker
JOB NUMBER:	6406.24.0001

GENERAL INFORMATION - TECHNOLOGY

T00-00

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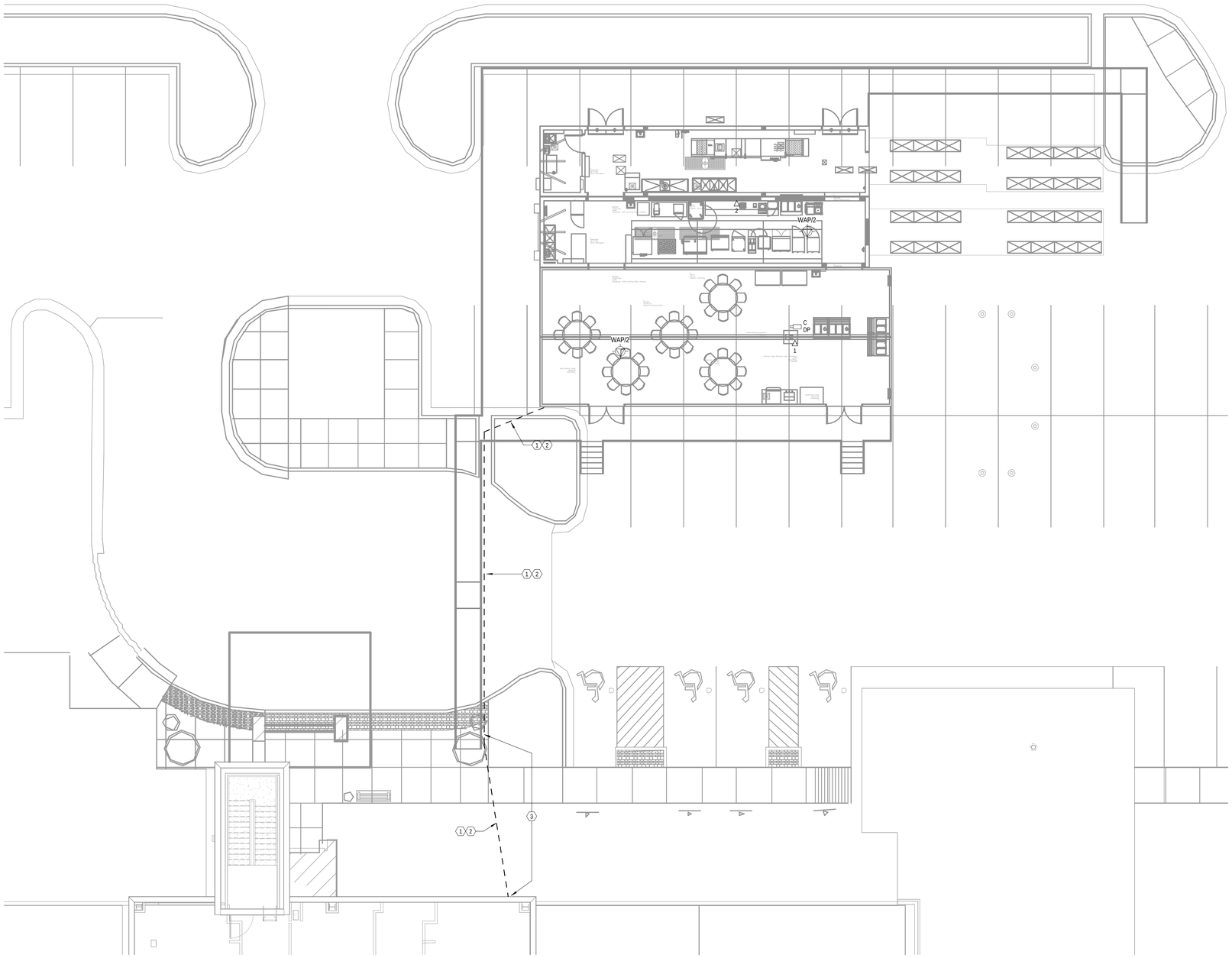

1 FLOOR PLAN - LEVEL 01 - COMMUNICATIONS
1/8" = 1'-0"

GENERAL NOTES:

A. REFER TO AND COORDINATE WITH ARCHITECTURAL PLANS, ELEVATIONS, AND DETAILS FOR EXACT LOCATIONS OF ALL DEVICES.
B. REFER TO SHEET T00-00 FOR GENERAL NOTES AND SYMBOLS APPEARING ON THIS SHEET.
C. ALL DEVICES WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL HAVE CONDUITS ROUTED TO ABOVE ACCESSIBLE CEILING SPACE IN CORRIDOR.
D. COMMUNICATIONS CONDUIT PATHWAYS SHALL NOT CONTAIN ANY LENGTH GREATER THAN 100 FEET BETWEEN PULL POINTS. NO SECTION OF CONDUIT SHALL CONTAIN MORE THAN TWO 90-DEGREE BENDS, OR EQUIVALENT, BETWEEN PULL POINTS. IF THERE IS REVERSE BEND IN THE SECTION, A PULL POINT SHALL BE INSTALLED. PULL BOXES SHALL NOT BE USED IN LIEU OF BENDS. THE INSIDE RADIUS OF ALL CONDUIT BENDS SHALL BE AT LEAST 10 TIMES THE INTERNAL DIAMETER. BENDS IN CONDUIT SHALL NOT CONTAIN ANY KINKS OR OTHER DISCONTINUITIES THAT MAY HAVE A DETRIMENTAL EFFECT ON THE CABLE SHEATH DURING INSTALLATION. NO DAISY CHAINING OF BACK BOXES ALLOWED UNLESS OTHERWISE NOTED.
E. ALL CABLING SHALL BE SUPPORTED ABOVE ACCESSIBLE CEILING SPACE USING LOW-VOLTAGE SUPPORTS SIZED AT 40% FILL BASED ON CURRENT NEEDS.
F. FOR ALL WALL MOUNTED MONITORS (TRACKERS, INFO, SECURITY, PATIENT, ETC.), CONTRACTOR SHALL COORDINATE A/V BACKBOX LOCATION AND MOUNTING HEIGHT WITH VENDOR PROVIDED MOUNTING BRACKET PRIOR TO ROUGH IN.
G. CEILING MOUNTED VIDEO SURVEILLANCE CAMERAS SHALL BE PROVIDED WITH A 15' CABLE SERVICE LOOP ABOVE CEILING AT CAMERA END.

LEGEND NOTES

1. CONTRACTOR SHALL FURNISH AND INSTALL A 2-INCH CONDUIT PATHWAY ORIGINATING FROM THE TEMPORARY KITCHEN TRAILER TO EXTERIOR WALL. THE PATHWAY SHALL FOLLOW THE DESIGNATED ROUTE ALONG THE RAMP AND CONTINUE ACROSS THE GROUND TO THE EXTERIOR WALL OF THE BUILDING. THE CONDUIT SHALL EXTEND UP WALL AND BE FITTED WITH AN EXTERIOR NEMA RATED JUNCTION BOX ON EXTERIOR OF BUILDING. CONDUIT SHALL PENETRATE THE BUILDING ENVELOPE AND EXTEND INTO THE ACCESSIBLE CEILING SPACE WITHIN THE BUILDING.
2. PROVIDE INDOOR/OUTDOOR RATED CAT6A NETWORK CABLES (BELDEN PART# 2148A) FROM NEAREST IDF ROOM WITHIN HOSPITAL TO EACH OUTLET SHOWN ON PLAN. PROVIDE CAT6A RATED SURGE SUPPRESSORS (EATON/TRIPP LITE PART# B110-SP-10G, OR EQUAL) ON BOTH ENDS OF EACH CAT6A CABLE INSTALLED.
3. A CODE-COMPLIANT RAMP/COVER (ELASCO PART# MG2200, OR EQUAL) SHALL BE PROVIDED OVER THE CONDUIT PATHWAY WHERE IT CROSSES PEDESTRIAN AREAS (E.G., GROUND OR SIDEWALK), IN ORDER TO MITIGATE TRIP HAZARDS AND MAINTAIN ACCESSIBILITY.

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MODULAR INTERIM KITCHEN COMPLEX

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY, LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

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AHJ PROJECT-CASE NUMBER
AHJ PROJECT-CASE NUMBER 2

FACILITY NUMBER:
09724000009
FACILITY NUMBER 2

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

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FLOOR PLAN - LEVEL 01 - COMMUNICATIONS

T02-01

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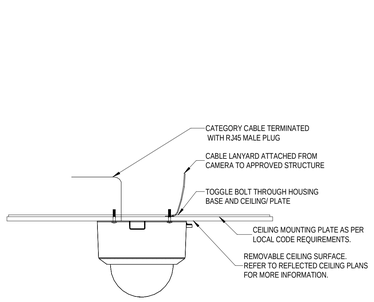
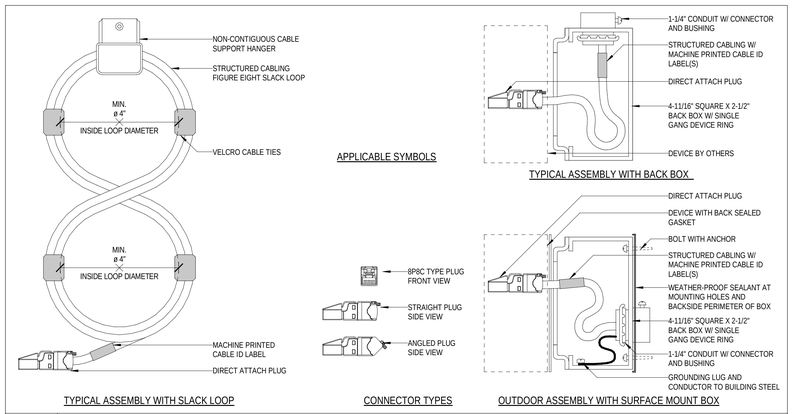


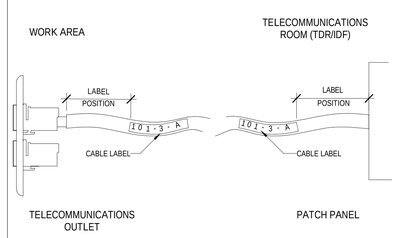
03 SINGLE LENS CAMERA - LAY-IN CEILING MOUNT

NOT TO SCALE



02 DIRECT ATTACH OUTLET FOR CAMERA AND WIRELESS ACCESS POINTS

NOT TO SCALE



DETAIL NOTES:

A. CONTRACTOR SHALL COORDINATE WITH OWNER'S IT PERSONNEL FOR EXACT LABELING NOMENCLATURE PRIOR TO ROUGH IN.

01 CABLE LABEL PLACEMENT DETAIL

NOT TO SCALE

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2100 SE BLUE PKWY, LEE'S SUMMIT, MO 64063

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MISSOURI DHSS

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09724000 09
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AGENCY APPROVALS:
AGENCY

REVISIONS		
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DETAILS - TECHNOLOGY

T07-01

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FDBY Lee's Summit Complex

COMPLEX DRAWING INDEX

SHEET NO.	SHEET CREATED	DESCRIPTION	REV. NUMBER	REV. DATE	REV. NOTE
G-001		Cover Sheet & Drawing Index			
G-002		Applicable Codes, General Notes & Finish Schedules			
G-003		Door Schedule & Egress Plan			
G-004		Typical 2A & 5B Construction Types			
A-101		Site Plan			
I-101A		Interior Floor Plan & Equipment List			
I-101A		Interior Floor Plan & Equipment List			
I-101B		W833_C849 Interior Complex Plan & Equipment List			
A-103		W712 & W718 Utilities Plan			
A-103B		W833_C849 Utilities Plan			
S-501		W712 & W718 Structural Tie-Down Plans & Details			
S-501B		W833_849 Structural Tie-Down Plans & Details			
S-501C		Mobile Modular Office_Dry Storage Structural Tie-Down Plans & Details			
S-501D		Walk-In Cooler Structural Tie-Down Plans & Details			

MISSOURI PUBLIC SERVICE COMMISSION

APPROVED

06/12/2025

MANUFACTURED HOUSING

M681 DRAWING INDEX

SHEET NO.	SHEET CREATED	DESCRIPTION	REV. NUMBER	REV. DATE	REV. NOTE
(M681) G-001		Cover Sheet & Drawing Index			
(M681) I-101		Interior Floor Plan and Equipment List			
(M681) E-101		Electrical Floor Plan Schematic			
(M681) E-601		Electrical Panel Schedule(S)			
(M681) M-101		HVAC Ducting Plan			
(M681) P-601		Fresh Water Plumbing Schematic			
(M681) P-602		Waste Water Plumbing Schematic			

M682 DRAWING INDEX

SHEET NO.	SHEET CREATED	DESCRIPTION	REV. NUMBER	REV. DATE	REV. NOTE
(M682) G-001		Cover Sheet & Drawing Index			
(M682) I-101		Interior Floor Plan and Equipment List			
(M682) E-101		Electrical Floor Plan Schematic			
(M682) E-601		Electrical Panel Schedule(S)			
(M682) M-101		HVAC Ducting Plan			
(M682) P-601		Fresh Water Plumbing Schematic			
(M682) P-602		Waste Water Plumbing Schematic			

M820 DRAWING INDEX

SHEET NO.	SHEET CREATED	DESCRIPTION	REV. NUMBER	REV. DATE	REV. NOTE
(M820) G-001		Cover Sheet & Drawing Index			
(M820) I-101		Interior Floor Plan and Equipment List			
(M820) E-101		Electrical Floor Plan Schematic			
(M820) E-601		Electrical Panel Schedule(S)			
(M820) M-101		HVAC Ducting Plan			
(M820) P-601		Fresh Water Plumbing Schematic			
(M820) P-602		Waste Water Plumbing Schematic			
(M820) P-603		Gas Plumbing Schematic			

M821 DRAWING INDEX

SHEET NO.	SHEET CREATED	DESCRIPTION	REV. NUMBER	REV. DATE	REV. NOTE
(M820) G-001		Cover Sheet & Drawing Index			
(M820) I-101		Interior Floor Plan and Equipment List			
(M820) E-101		Electrical Floor Plan Schematic			
(M820) E-601		Electrical Panel Schedule(S)			
(M821) M-501		Makeup Air Specifications			
(M821) M-502		Exhaust Hood Plan & Specifications			
(M821) M-503		Exhaust Hood Plan & Specifications			
(M821) M-504		Exhaust Fan & MUA Specs			
(M821) M-505		Exhaust Fan & MUA Specs			
(M821) M-506		Control Panel			
(M821) M-507		MUA Ducting Specifications			
(M821) M-508		Exhaust Fan Elevation			
(M821) P-601		Fresh Water Plumbing Schematic			
(M821) P-602		Waste Water Plumbing Schematic			
(M821) P-603		Gas Plumbing Schematic			

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4703 Chester Drive
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State(s) Missouri
Accredited Evaluation and Inspection Agency
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STATE OF MISSOURI
GAYLORD RANSOM
NUMBER E-27812
REGISTERED PROFESSIONAL ENGINEER

MCGRATH RENTCORP.
DBA KITCHENS TO GO
BY MOBILE MODULAR
DBA MOBILE MANAGEMENT CORP.
9876 WEST OLD US 30
ETNA GREEN, IN 46524

FDBY LEE'S SUMMIT MEDICAL CENTER

2100 SE Blue Pkwy
Lee's Summit, MO 64063

REV.	DATE	DESCRIPTION	NAME

DELTA - REV -

Drawn By: MMS
Approved By: -
QUOTE NUMBER L24-050
UNIT NUMBER ----
11x17 SCALE: N/A
22x34 SCALE: N/A

Cover Sheet & Drawing Index

Sheet **G-001**

APPLICABLE CODES

COUNTY:	Jackson County		
CODES:	**CODE USED**	**STATE AMENDMENTS**	
Building	2021 International Building Code		
Plumbing	2021 International Plumbing Code		
Mechanical	2021 International Mechanical Code		
Electrical	2020 NFPA-70 National Electrical Code		
Gas	2021 International Fuel Gas Code		
Energy	2021 International Energy Conservation Code		
Accessibiity	2021 International Building Code		
Life Safety	2021 International Building Code		
Fire	2021 International Building Code		
OCCUPANCY TYPE:			
Building	A-2		
Life Safety	A-2		
Building Area	3,412 Sq.Ft.		
ADDRESS:	2100 SE Blue Pkwy, Lee's Summit, MO 64063		

					PROPOSED CONST. TYPE	M681	M682	M820	M821
CLASSIFICATION:				**Type**	V-B	V-B	V-B	II-2	II-2
				Protection					
				Unprotected	X	X	X		
				1 Hr Protected				X	X
"LIGHT HAZARD" SPRINKLER SYSTEM								X	X

DESIGN CRITERIA

	PROPOSED SITE LOADS	M681	M682	M820	M821
ROOF:					
LIVE LOAD (SNOW):	20 PSF	30 PSF	30 PSF	60 PSF	60 PSF
GROUND SNOW LOAD:	20 PSF	30 PSF	30 PSF	60 PSF	60 PSF
FLOOR:					
LIVE LOAD: UNIFORM	100 PSF	100 PSF	100 PSF	100 PSF	100 PSF
CONCENTRATED	2000 LBS	2000 LBS	2000 LBS	2000 LBS	2000 LBS
WIND:					
CODE:	ASCE 7/16	ASCE 7/05	ASCE 7/05	ASCE 7/10	ASCE 7/10
WIND SPEED: Vult =	109 MPH	116 MPH	116 MPH	140 MPH	140 MPH
EXPOSURE CATEGORY:	C	C	C	C	C
SEISMIC CATEGORY:	B	C	C	A	A
FLOODING:	N/A	N/A	N/A	N/A	N/A
ENCLOSURE CLASSIFICATION:	ENCLOSED	ENCLOSED	ENCLOSED	ENCLOSED	ENCLOSED
				CLIMATE ZONE: 4A	

Egress Requirements

EGRESS ITEM	REQUIRED		PROVIDED
	BUILDING	LIFE SAFETY	
Number of Exits Required	1	1	4
Minimum Opening Width	36"	36"	72"
Minimum Stair Width	N/A	N/A	N/A

Occupancy Legend

IBC 2021, TABLE 1004.5

DINING	ASSEMBLY USE - LESS CONCENTRATED WITHOUT FIXED SEATING 1,417 SF / 15 SF OCC = 95 OCCUPANTS
KITCHEN	1,987 SF / 200 SF OCC = 10 OCCUPANTS

NOTES:

1. DRINKING FOUNTAINS SHALL BE PROVIDED AND INSTALLED BY OTHERS ON SITE.
2. RESTROOM AND HANDICAPPED RESTROOM FACILITIES MUST BE READILY ACCESSIBLE WITHIN 500 FEET TRAVEL DISTANCE OF THIS BUILDING ON THE SITE.
3. DATA PLATES AND LABELS LOCATED ON LOAD CENTER COVER UNLESS OTHERWISE SPECIFIED.
4. FIRE SAFETY PLAN REVIEW & INSPECTION IS RESERVED FOR THE LOCAL FIRE OFFICIAL HAVING JURISDICTION.

EQUIPMENT INSTALLATION

THE FOLLOWING ITEMS HAVE NOT BEEN COMPLETED BY THE MANUFACTURER, HAVE NOT BEEN INSPECTED BY TRA AND ARE NOT CERTIFIED BY THE STATE MODULAR LABEL. NOTE THAT THIS LIST DOES NOT NECESSARILY LIMIT THE ITEMS OF WORK AND MATERIAL THAT MAY BE REQUIRED FOR A COMPLETE INSTALLATION. ALL SITE RELATED ITEMS ARE SUBJECT TO LOCAL JURISDICTION APPROVAL. CODE COMPLIANCE MUST BE DETERMINED AT THE LOCAL LEVEL.

ITEMS TO BE INSTALLED ON SITE BY KTG BY MOBILE MODULAR:

1. MAKE UP AIR UNIT.
2. EXHAUST FANS.
3. CONDENSING UNITS.
4. BLOCKING OF UNIT.
5. THE MAIN ELECTRICAL PANEL AND SUBFEEDERS.
6. CONNECTION OF ELECTRICAL CIRCUITS CROSSING OVER MODULE MATELINE(S) - (MULTI-UNITS ONLY).
7. STRUCTURAL AND AESTHETIC INTERCONNECTIONS BETWEEN MODULES (MULTI-UNITS ONLY).
8. RAMPS, STAIRS AND GENERAL ACCESS TO THE BUILDING.

ITEMS TO BE INSTALLED ON SITE BY OTHERS:

1. UTILITIES HOOK UP

FACTORY INSTALLED ITEMS:

1. COOKING EQUIPMENT
2. SINKS
3. PREP EQUIPMENT

M821:
MAKE-UP AIR

MODEL: A2-D.250-G15-R-MPU
208V, 3PH, 60HZ
MODEL: A3-D.500-G18-MPU
208V, 3PH, 60HZ

M820:
HVAC

MODEL: #YSK090A3S0M**00B0A1B0A0A1
7.5 TON-ROOF TOP A/C UNIT
208V, 3PH, 60HZ

M681:
HVAC

MODEL: W60AYDA15XX4XXE BARD
5 TON-WALL MOUNTED ELECTRIC
208V, 1PH, 60HZ

M682:
HVAC

MODEL: W60AYDA15XX4XXE BARD
5 TON-WALL MOUNTED ELECTRIC
208V, 1PH, 60HZ

FINISH SCHEDULE:

ROOF: FIBERGLASS REINFORCED PLASTIC (FRP),
COLOR - WHITE

FLOOR: VINYL THAT CONTINUES UP TO THE WALL FOUR INCHES WITH A 3/8" INCH RADIUS COVE AS A INTEGRAL UNIT.
ALTRO STRONGHOLD 30
COLOR - SKYLINE

CEILING: FOOD GRADE WASHABLE TILES IN 2X4 SUSPENDED GRID. (ARMSTRONG #870)
COLOR - WHITE

INTERIOR
WALLS: FIBERGLASS REINFORCED PLASTIC (FRP), COLOR WHITE
STAINLESS STEEL 18 GA, TYPE 304, FINISH #4, HORIZONTAL GRAIN BEHIND COOKING LINE.

COUNTER: STAINLESS STEEL 16 GA, TYPE 304, FINISH #4, HORIZONTAL GRAIN.

SHELVING: STAINLESS STEEL 16 GA, TYPE 304, FINISH #4, HORIZONTAL GRAIN.

EQUIPMENT: MOUNTED LOOSE, SECURE FOR TRANSPORT.

INSTALLATION:
ANY GAP LESS THAN 3/8" WIDE TO BE SEALED WITH A SMOOTH SEMI-PERMANENT APPROVED FOOD GRADE CAULK JOINT.

ANY GAP LARGER THAN 3/8" REQUIRES THE USE OF A CAULK BACK MATERIAL.

ALL SHARP EDGES TO BE SMOOTHED.

USE 3/16 RIVETS ON ALL STAINLESS RIVETING.

ALL VENTS MUST HAVE SCREENS.

C934 & C935 DRY STORAGES FINISH SCHEDULE:

ROOF: FIBERGLASS REINFORCED PLASTIC (FRP),
COLOR - WHITE

FLOOR: VINYL THAT CONTINUES UP TO THE WALL FOUR INCHES WITH A 3/8" INCH RADIUS COVE AS A INTEGRAL UNIT.
ALTRO STRONGHOLD 30
COLOR - SKYLINE

CEILING: FOOD GRADE WASHABLE TILES IN 2X4 SUSPENDED GRID. (ARMSTRONG #870)
COLOR - WHITE

INTERIOR
WALLS: FIBERGLASS REINFORCED PLASTIC (FRP),
COLOR - WHITE

MISSOURI PUBLIC SERVICE COMMISSION
APPROVED
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DELTA - REV -

Drawn By: MMS	Approved By: HB/RR
QUOTE NUMBER L24-050	UNIT NUMBER M820, M821, M681, M682

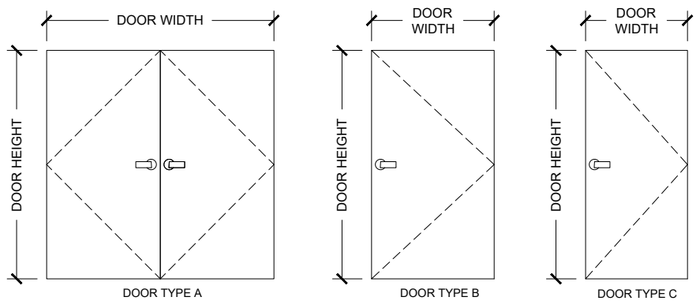
11x17 SCALE: N/A
22x34 SCALE: N/A

Applicable Codes, General Notes & Finish Schedules

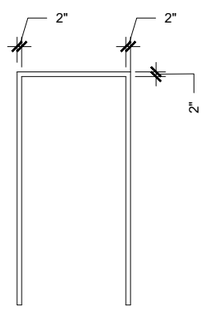
Sheet
G-002

DOOR SCHEDULE

TAG	DOOR TYPE	DOORS – DIMENSIONS: WIDTH	HEIGHT	THK.	MATERIALS: PANEL MATERIAL	PANEL FINISH	DOOR GLAZING	FRAMES: FRAME TYPE	FRAME MATERIAL	FRAME FINISH	HARDWARE GROUP	FIRE RATING	COMMENTS
D101	TYPE A	6'-0"	7'-0"	1'-3/4"	IHM	PA	N/A	TYPE A	HM	PA	—	45Min.	FOR DOOR HARDWARE SEE DOOR CRITERIA
D102	TYPE A	6'-0"	7'-0"	1'-3/4"	IHM	PA	N/A	TYPE A	HM	PA	—	45Min.	FOR DOOR HARDWARE SEE DOOR CRITERIA
D103	TYPE A	6'-0"	7'-0"	1'-3/4"	IHM	PA	N/A	TYPE A	HM	PA	—	N/A	FOR DOOR HARDWARE SEE DOOR CRITERIA
D104	TYPE A	6'-0"	7'-0"	1'-3/4"	IHM	PA	N/A	TYPE A	HM	PA	—	N/A	FOR DOOR HARDWARE SEE DOOR CRITERIA
D105	TYPE A	3'-0"	6'-8"	1'-1/2"	HM	PA	N/A	TYPE A	HM	PA	—	N/A	INTERIOR DOOR



DOOR TYPES



FRAME TYPE A* * - 16 GA KNOCKDOWN FRAME - SEE FRAME CRITERIA

FRAME TYPE

HOLLOW METAL FRAME CRITERIA:

GAGE: 16, GALVANEALED LHR/ RHR SWING
FIRE LABELING: NONE SPECIFIED
CONSTRUCTION TYPE: AFTER DRYWALL KNOCKDOWN WRAPAROUND
SIZE: VARIES
JAMB DEPTH: 9" WITH 8" THROAT - DEPTH AS SPECIFIED
REINFORCED FOR SVR EXIT DEVICE STRIKES AND DOOR CLOSERS
TOTAL FLAME COUNT: 1 EACH

EXTERIOR HOLLOW METAL DOOR CRITERIA:

GAGE: 18, GALVANEALED
FIRE LABELING: NONE SPECIFIED
SIZE: VARIES
CONSTRUCTION: POLYSTYRENE FOAM INSULATED
PREPARED FOR SVR EXIT DEVICES WITH LEVER TRIMS. REINFORCED FOR DOOR CLOSER
EXTERIOR HOLLOW METAL DOOR LEAF COUNT: 2 EACH
U-FACTOR: 0.37

FINISH HARDWARE:

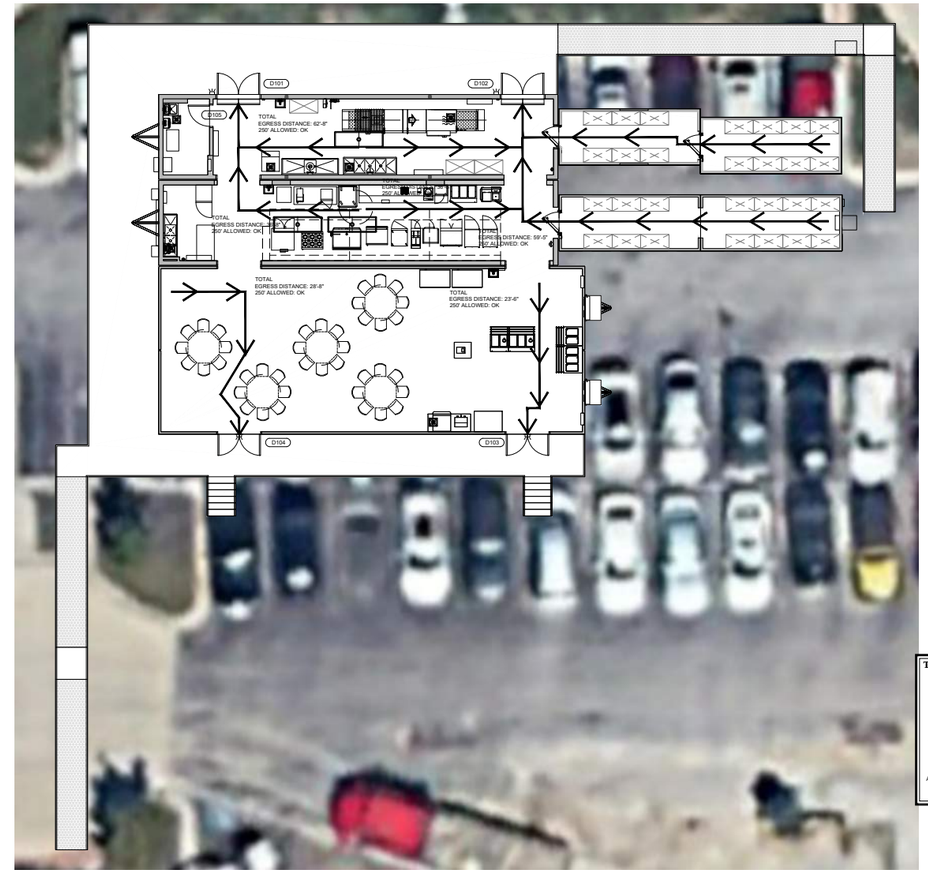
ONE LOT OF FINISH HARDWARE INCLUDING:
6 EACH - HINGES, BALL BEARING WITH NON-REMOVABLE PINS
2 EACH - HAGER SURFACE VERTICAL ROD (SVR) EXIST DEVICE, GRADE 1 W/ LOCKING LEVER TRIMS
2 EACH - HAGER DOOR CLOSER, HEAVY DUTY
1 EACH - BRUSH PERIMETER WEATHER-STRIPPING KIT
1 EACH - BRUSH MEETING STILE GASKET SET
2 EACH - BRUSH DOOR BOTTOM SWEEPS
1 EACH - ALUMINUM THRESHOLD
1 EACH - NESC9800 RIGID ENTRANCE LOCKSET, ANTI-MICROBIAL COATING

ABBREVATIONS

ABBREVATIONS	DESCRIPTION
AL	ALUMINUM
GL	GLAZING
HM	HOLLOW METAL
IHM	INSULATED HOLLOW METAL
IPSF	INSULATED PRESSED STEEL FRAME
ML	METAL
PA	PAINT
PO	PRIMER ONLY
PP	PUSH/PULL
PRE	PREFINISHED
PREM	PREMANUFACTURED
PSF	PRESS STEEL FRAME
SS	STAINLESS STEEL
W	WOOD
WF	WIDE-FLANGE

GRAPHIC SYMBOLS LEGEND

D101 DOOR NUMBER



EGRESS PLAN

3/32" = 1'-0"

EXIT ACCESS TRAVEL DISTANCE
A-2 OCCUPANCY = 250 FT.(SPRINKLERED)
(IBC 2021) TABLE 1017.2

NOTE:
ACCESSIBLE RAMPS, PLATFORMS, STAIRS,HANDRAILS AND GENERAL ACCESS TO THE BUILDING BY GC ON SITE.

MISSOURI PUBLIC SERVICE COMMISSION
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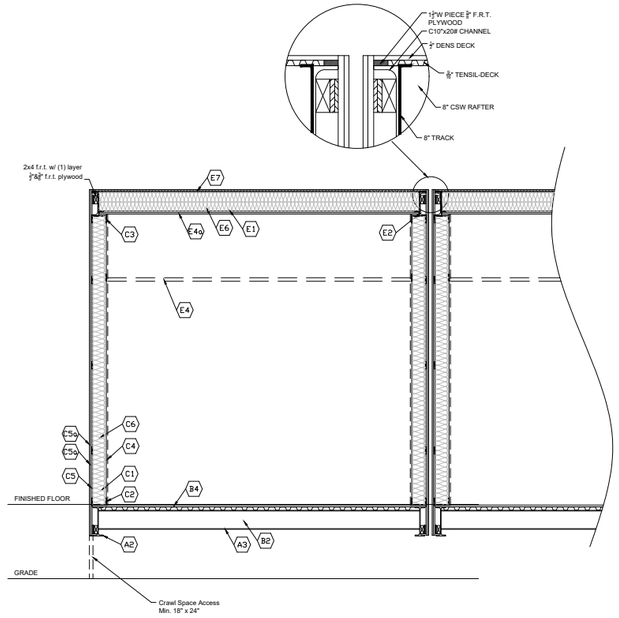
UNIT NUMBER M820, M821, M681, M682
11x17 SCALE: N/A
22x34 SCALE: N/A

Door Schedule & Egress Plan

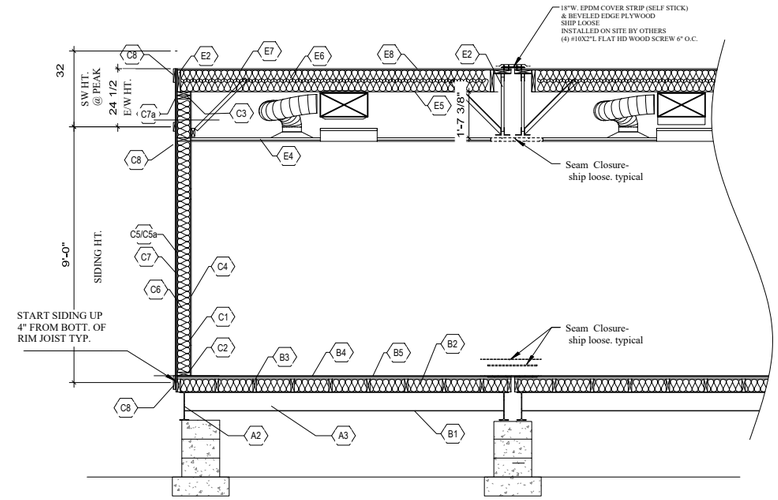
Sheet
G-003



3 Typical Transverse Building Section

Scale: N.T.S.

KTG MODULAR UNIT TYPICAL TYPE 2A CONSTRUCTION
(SEE KEYNOTES)



KTG MODULAR UNIT TYPICAL TYPE 5B CONSTRUCTION
(SEE KEYNOTES)

FRAME		
A2	MAIN BEAM:	W12" x 22# I-BEAM (ROLLED)
A3	X-MEMBER:	W8" x 13# @48" O.C.

FLOOR ASSEMBLY		
B1	BOTTOM BOARD:	30 GAUGE GALVANIZED
B2	INSULATION:	R-19 KRAFT FACED FIBERGLASS BATT
B3	JOISTS:	2 x 6 (#2 SPF) AT 16" O.C. NOMINAL
B4	DECKING:	5/8" T&G CDX PLYWOOD (RATED 40/20) UNDER 5/8" SQ. EDGE UNDERLAYMENT PLYWOOD (RATED 40/20)
B5	COVERING:	SEE FINISH SCHEDULE

EXTERIOR WALL ASSEMBLY		
C1	STUDS	2 x 6 (SPF STUD) @ 16" O.C.
C2	BOTTOM PLATE	(1) 2 x 6 (#3 SPF)
C3	TOP PLATE	(2) 2x6 (#3 SPF) RAFTER DIRECTLY OVER STUD
C4	INT. COVERING	.090 FRP LAMINATED TO 5/8" UNIFINISHED GYPSUM BOARD
C5	SHEATHING	5/8" DENSGLASS (TYPE-X) INSTALLED OVER FRAMING
C5a	SHEATHING	1/2" F.R.T. EXTERIOR GRADE PLYWOOD - B-C or B-D (RATED 32/16) INSTALLED OVER 5/8" DENS-GLASS
C5b	SHEATHING	AIR INFILTRATION BARRIER (TYVEK OR EQUAL) -- BETWEEN DENSGLASS AND PLYWOOD
C6	INSULATION	R-19 OR R-21 KRAFT FACED FIBERGLASS BATT

ROOF ASSEMBLY		
E1	RAFTERS:	2 x 10 (#2 SPF), UNTAPERED
E3	SIDE WALL BEAM:	C10"x 20 # CHANNEL
E4	CEILING	SUSPENDED (T-GRID) W/ 2' X 4' LAY-IN TILE
E5	TRUE CEILING	(1) LAYER 5/8" TYPE "X" UNFINISHED GYP. B'D
E6	INSULATION	R-30 KRAFT FACED (R-19 OVER R-11)
E7	SHEATHING:	5/8" EXTERIOR GRADE PLYWOOD - B-C or B-D (RATED 40/20)
E8	ROOFING	SEE FINISH SCHEDULE
E11	VENTS	AURA VENT SYSTEM

FRAME		
A2	MAIN BEAM:	W12" x 22# I-BEAM (ROLLED)
A3	X-MEMBER:	W8" x 13# @48" O.C.

FLOOR ASSEMBLY		
B1	BOTTOM BOARD:	30 GAUGE GALVANIZED
B2	INSULATION:	R-19 KRAFT FACED FIBERGLASS BATT
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B4	DECKING:	5/8" T&G CDX PLYWOOD (RATED 40/20) UNDER 5/8" SQ. EDGE UNDERLAYMENT PLYWOOD (RATED 40/20)
B5	COVERING:	SEE FINISH SCHEDULE

EXTERIOR WALL ASSEMBLY		
C1	STUDS	2 x 6 (SPF STUD) @ 16" O.C.
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E5	TRUE CEILING	(1) LAYER 5/8" TYPE "X" UNFINISHED GYP. B'D
E6	INSULATION	R-30 KRAFT FACED (R-19 OVER R-11)
E7	SHEATHING:	5/8" EXTERIOR GRADE PLYWOOD - B-C or B-D (RATED 40/20)
E8	ROOFING	SEE FINISH SCHEDULE
E11	VENTS	AURA VENT SYSTEM

MISSOURI PUBLIC SERVICE COMMISSION

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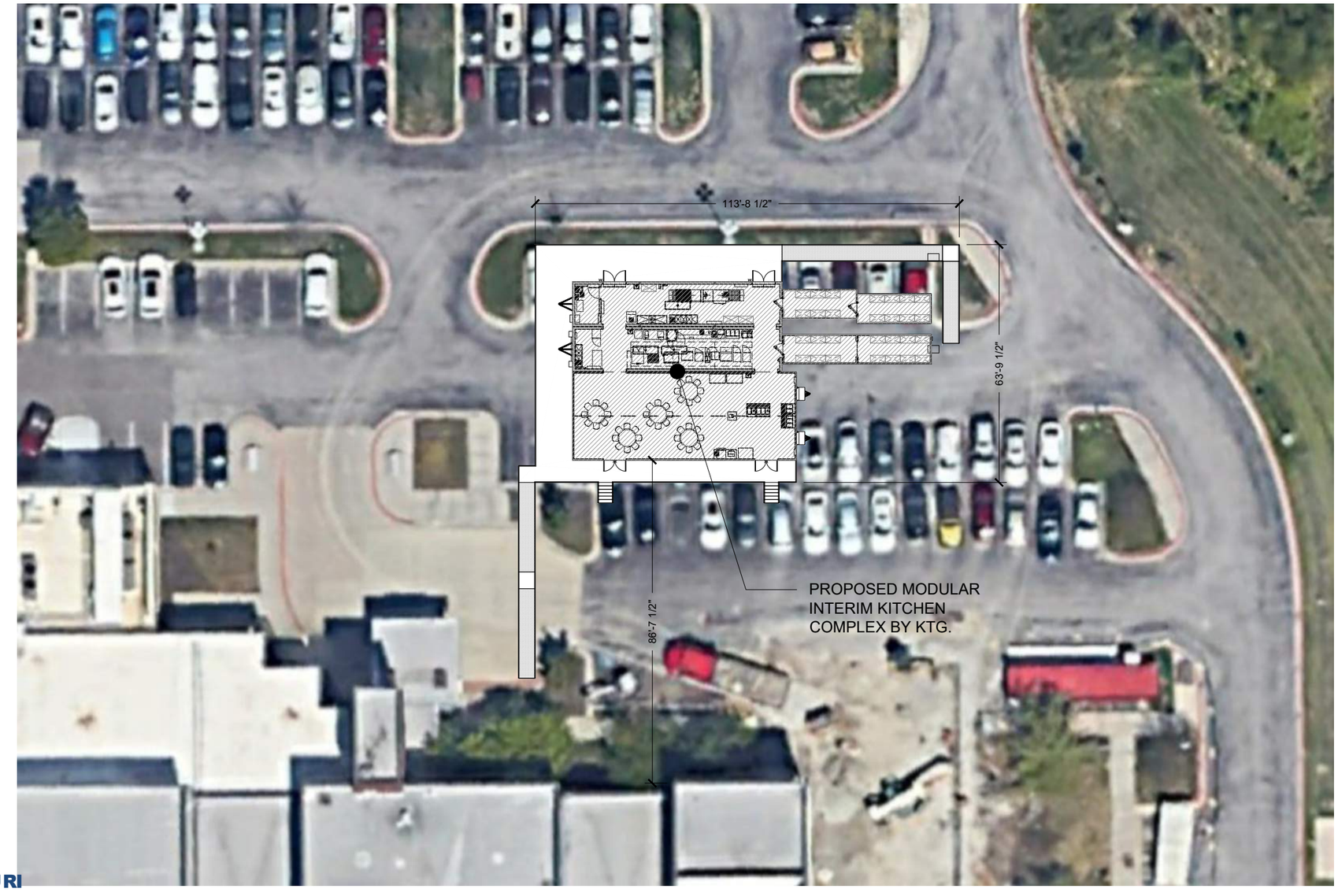
Drawn By: MMS
Approved By: HB/RR
QUOTE NUMBER L24-050
UNIT NUMBER M820, M821, M681, M682
11x17 SCALE: N/A
22x34 SCALE: N/A

Typical 2A & 5B Construction Types Site Plan

Sheet **G-004**

NOTE:
ADA COMPLIANT RAMPS, STAIRS, PLATFORMS, HANDRAILS AND GENERAL ACCESS TO THE BUILDING BY KTG ON SITE.



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ETNA GREEN, IN 46524

FDBY LEE'S SUMMIT MEDICAL CENTER

2100 SE Blue Pkwy
Lee's Summit, MO 64063

REV.	DATE	DESCRIPTION	NAME

DELTA - REV -

Drawn By: MMS	Approved By: ---
QUOTE NUMBER L24-050	UNIT NUMBER M820, M821, M681, M682

11x17 SCALE: 1/32"=1'-0"
22x34 SCALE: 1/16"=1'-0"

Site Plan

Sheet
A-101

NOTE:
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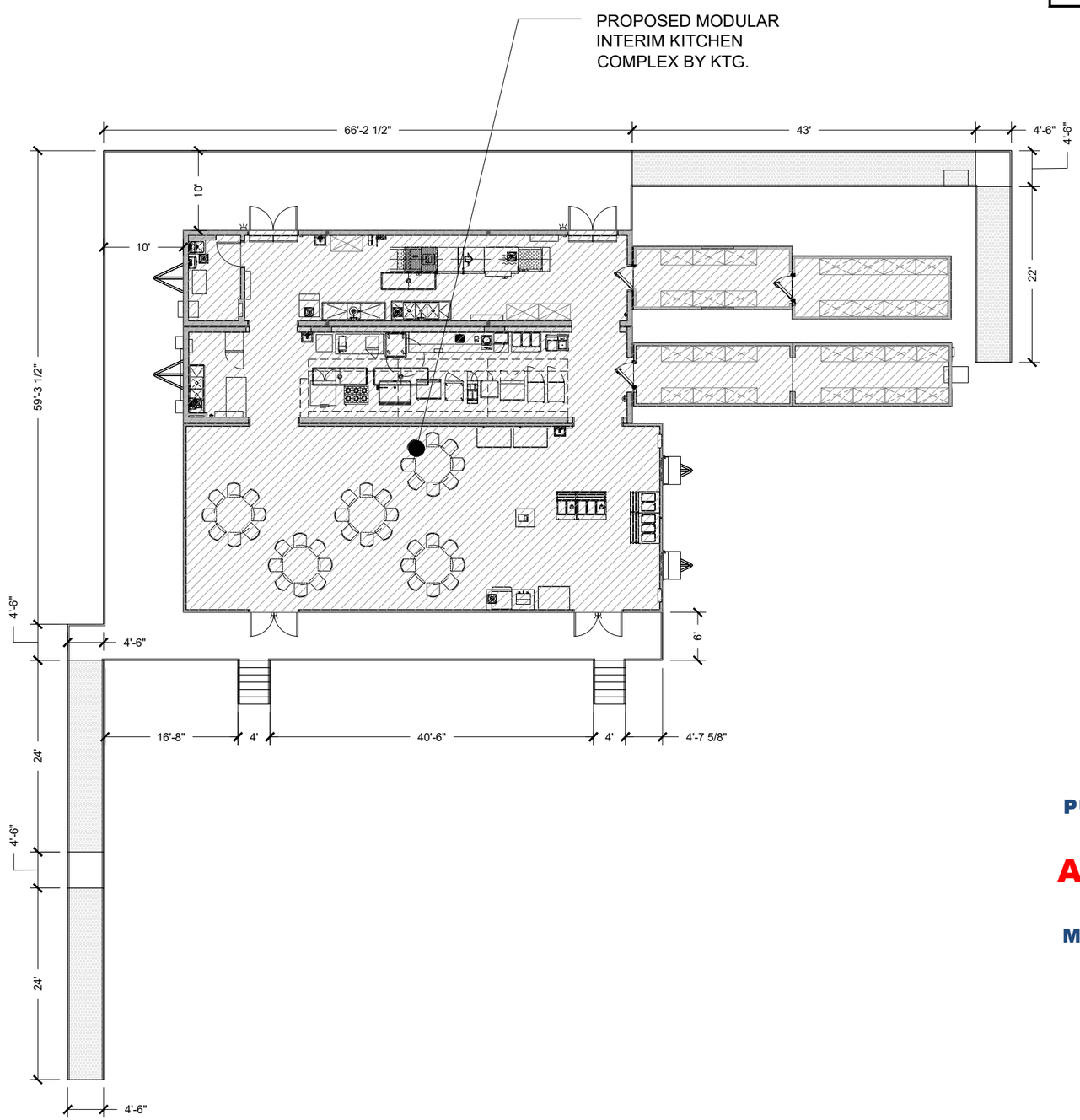

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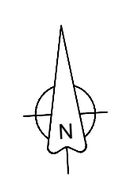

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REV.	DATE	DESCRIPTION	NAME

DELTA - REV -

Drawn By: MMS	Approved By: ---
QUOTE NUMBER L24-050	UNIT NUMBER M820, M821, M681, M682

11x17 SCALE: 1/16"=1'-0"
22x34 SCALE: 1/8"=1'-0"

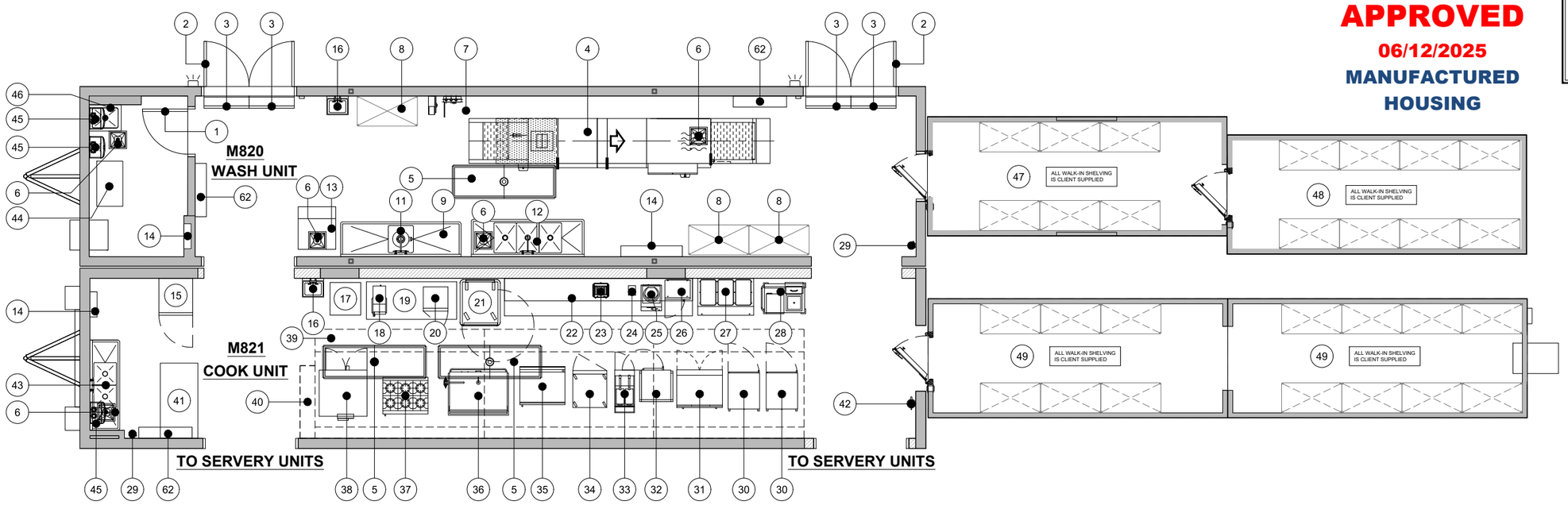
Ramps Stairs & Platforms Plan

Sheet
A-102

EQUIPMENT SCHEDULE:

CS = CLIENT SUPPLIED EQUIPMENT

ITEM NO.	DESCRIPTION	KTG	CS	ITEM NO.	DESCRIPTION	KTG	CS	ITEM NO.	DESCRIPTION	KTG	CS
1	36" Interior Door	X		23	Toaster		X	45	Water Heater	X	
2	72" Entry Door	X		24	Ticket Printer		X	46	Mop Sink	X	
3	36" Air Curtain	X		25	Induction Heat Activator		X	47	8' x 20' Walk-In Cooler	X	
4	Flight Type Dish Machine	X		26	Microwave		X	48	8' x 20' Walk-In Freezer	X	
5	Trench Drain	X		27	3 Well Hot Food Table	X		49	8' x 40' Walk-In Dry Storage	X	
6	Floor Sink	X		28	Heated Plate Dispenser	X		50	Open Air Merchandiser	X	
7	Hose Bib With 10' Hose And Nozzle Sprayer	X		29	Fire Extinguisher - "ABC" Type	X		51	Fountain Beverage Machine		X
8	Storage Rack - 48" x 24"		X	30	Hot Holding Cabinet	X		52	Cash Register		X
9	1 Compartment Sink	X		31	Work Top Refrigerator	X		53	Modular Cashier Unit	X	
10	Not Used			32	Dual Stack Convection Steamer	X		54	Hot Food Serving Counter - 3 Well	X	
11	Garbage Disposal	X		33	Fryer	X		55	Hot Food Serving Counter - 2 Well	X	
12	3 Compartment Sink	X		34	Reach-In Freezer	X		56	Cold Food Serving Counter - 3 Well	X	
13	Ice Machine W/ Bin	X		35	36" Griddle W/ Stand	X		57	Cold Food Serving Counter - 2 Well	X	
14	Electrical Panel	X		36	48" Tilt Skillet	X		58	Double Door Beverage Cooler		X
15	Reach-In Refrigerator	X		37	36" 6-Burner Countertop Range W/ Stand	X		59	Dining Table and Chairs		X
16	Hand Sink W/ Eye Wash Station	X		38	Dual Stack Convection Oven	X		60	Not Used		
17	Food Delivery Cart		X	39	Stainless Steel Exhaust Hood - Type 1 (Grease)	X		61	Not Used		
18	Coffee Brewer		X	40	Fire Suppression System	X		62	HVAC Unit	X	
19	Stainless Steel Work Table With Undershelf (30"X72")	X		41	Stainless Steel Work Table With Undershelf (30"X60")	X		63	Floor Sink, Covered & Sealed	X	
20	Countertop Freezer		X	42	Fire Extinguisher - "K" Type	X		64	Wall Storage Cabinet	X	
21	Airscreen Reach-In Refrigerator		X	43	2 Compartment Sink	X		65	Point of Use Water Heater	X	
22	Stainless Steel Work Table With Undershelf And Overshelf (30"X150")		X	44	Booster Heater	X					



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WALL LEGEND

- 2X6 EXISTING EXTERIOR WALL
- 2X6 NON-STRUCTURAL INFILL WALL
- 2X4 EXISTING INTERIOR WALL

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REGISTERED PROFESSIONAL ENGINEER

MCGRATH RENTCORP.
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9876 WEST OLD US 30
ETNA GREEN, IN 46524

FDBY LEE'S SUMMIT MEDICAL CENTER

2100 SE Blue Pkwy
Lee's Summit, MO 64063

REV.	DATE	DESCRIPTION	NAME

DELTA - REV -

Drawn By: MMS
Approved By: -
QUOTE NUMBER: L24-050
UNIT NUMBER: M820, M821, M681, M682
11x17 SCALE: 1/8"=1'-0"
22x34 SCALE: 1/4"=1'-0"

Interior Floor Plan & Equipment List

Sheet **I-101A**

EQUIPMENT SCHEDULE:

CS = CLIENT SUPPLIED EQUIPMENT

ITEM NO.	DESCRIPTION	KTG	CS	ITEM NO.	DESCRIPTION	KTG	CS	ITEM NO.	DESCRIPTION	KTG	CS
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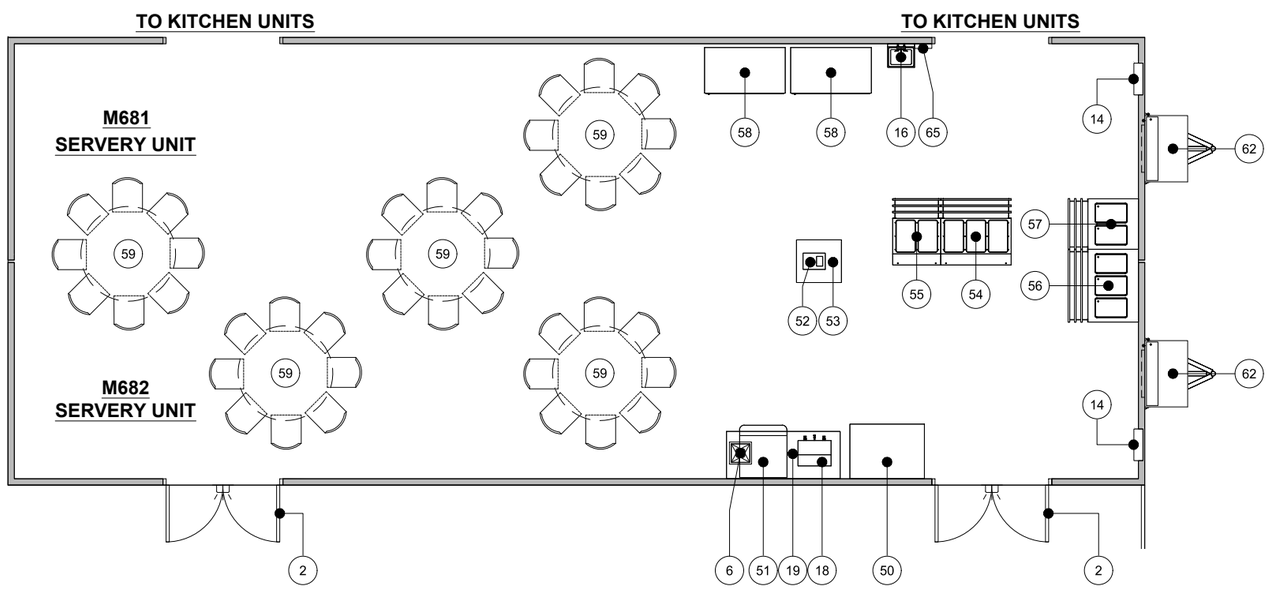
4	Flight Type Dish Machine	X		26	Microwave		X	48	8' x 20' Walk-In Freezer	X	
5	Trench Drain	X		27	3 Well Hot Food Table	X		49	8' x 40' Walk-In Dry Storage	X	
6	Floor Sink	X		28	Heated Plate Dispenser	X		50	Open Air Merchandiser	X	
7	Hose Bib With 10' Hose And Nozzle Sprayer	X		29	Fire Extinguisher - "ABC" Type	X		51	Fountain Beverage Machine		X
8	Storage Rack - 48" x 24"		X	30	Hot Holding Cabinet	X		52	Cash Register		X
9	1 Compartment Sink	X		31	Work Top Refrigerator	X		53	Modular Cashier Unit	X	
10	Not Used			32	Dual Stack Convection Steamer	X		54	Hot Food Serving Counter - 3 Well	X	
11	Garbage Disposal	X		33	Fryer	X		55	Hot Food Serving Counter - 2 Well	X	
12	3 Compartment Sink	X		34	Reach-In Freezer	X		56	Cold Food Serving Counter - 3 Well	X	
13	Ice Machine W/ Bin	X		35	36" Griddle W/ Stand	X		57	Cold Food Serving Counter - 2 Well	X	
14	Electrical Panel	X		36	48" Tilt Skillet	X		58	Double Door Beverage Cooler		X
15	Reach-In Refrigerator	X		37	36" 6-Burner Countertop Range W/ Stand	X		59	Dining Table and Chairs		X
16	Hand Sink W/ Eye Wash Station	X		38	Dual Stack Convection Oven	X		60	Not Used		
17	Food Delivery Cart		X	39	Stainless Steel Exhaust Hood - Type 1 (Grease)	X		61	Not Used		
18	Coffee Brewer		X	40	Fire Suppression System	X		62	HVAC Unit	X	
19	Stainless Steel Work Table With Undershelf (30"X72")	X		41	Stainless Steel Work Table With Undershelf (30"X60")	X		63	Floor Sink, Covered & Sealed	X	
20	Countertop Freezer		X	42	Fire Extinguisher - "K" Type	X		64	Wall Storage Cabinet	X	
21	Airscreen Reach-In Refrigerator		X	43	2 Compartment Sink	X		65	Point of Use Water Heater	X	
22	Stainless Steel Work Table With Undershelf And Overshelf (30"X150")		X	44	Booster Heater	X					



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FDBY LEE'S SUMMIT MEDICAL CENTER

2100 SE Blue Pkwy
Lee's Summit, MO 64063

REV.	DATE	DESCRIPTION	NAME

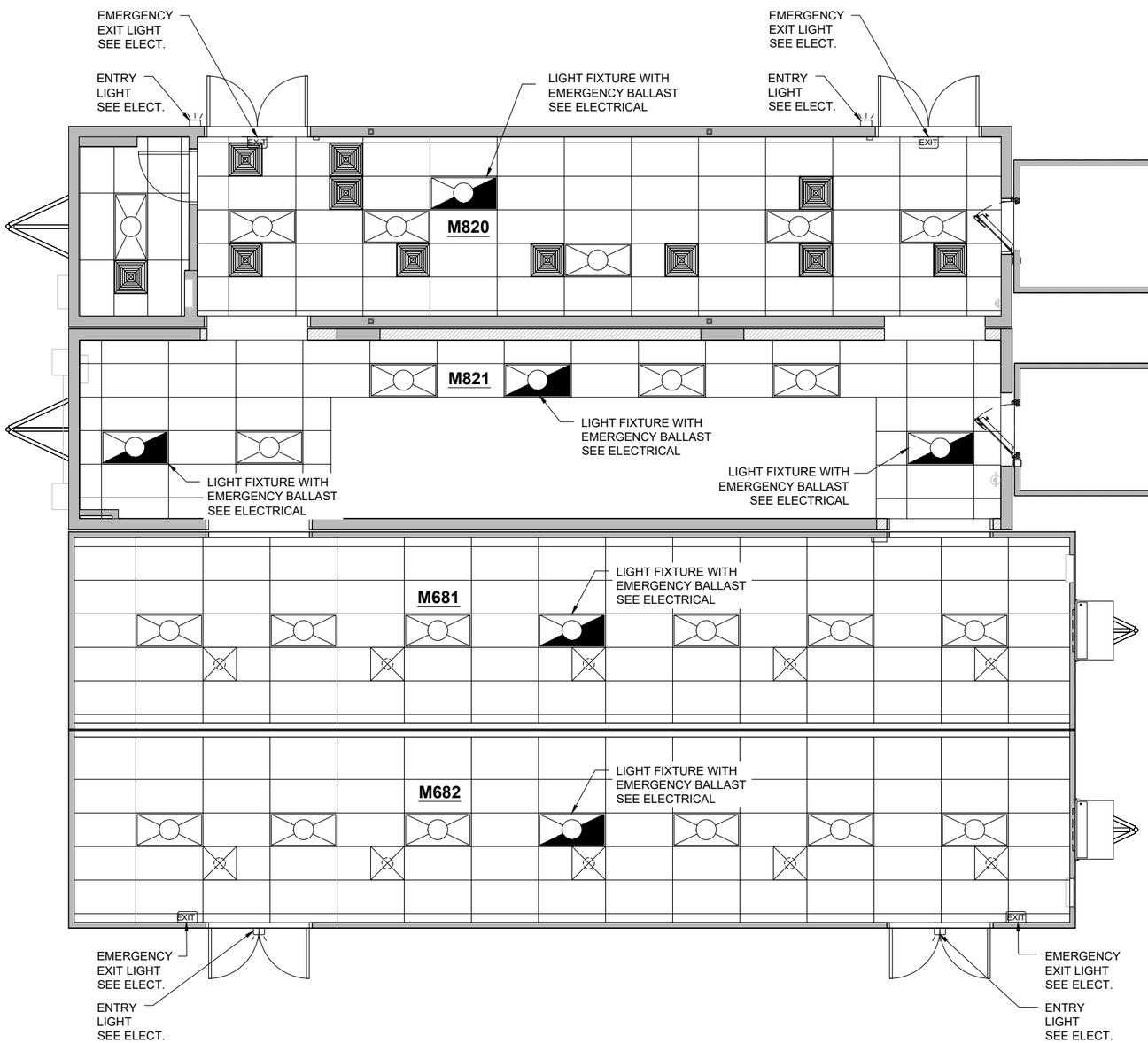
DELTA - REV -

Drawn By: MMS
Approved By: -
QUOTE NUMBER: L24-050
UNIT NUMBER: M820, M821, M681, M682
11x17 SCALE: 1/8"=1'-0"
22x34 SCALE: 1/4"=1'-0"

Interior Floor Plan & Equipment List

Sheet

I-101B



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Drawn By: MMS	Approved By: -
QUOTE NUMBER L24-050	UNIT NUMBER M820, M821, M681, M682
11x17 SCALE: 1/8"=1'-0"	22x34 SCALE: 1/4"=1'-0"

Reflected Ceiling Plan

Sheet **I-102**

SUBMITTAL SET

ELECTRICAL LEGEND

	24' X 48" LIGHT FIXTURE
	24' X 48" LIGHT FIXTURE WITH EMERGENCY BALLAST
	EXT. ENTRY LIGHT
EXIT	EMERGENCY EXIT LIGHT
	VAPOR PROOF LIGHT/ HOOD LIGHT

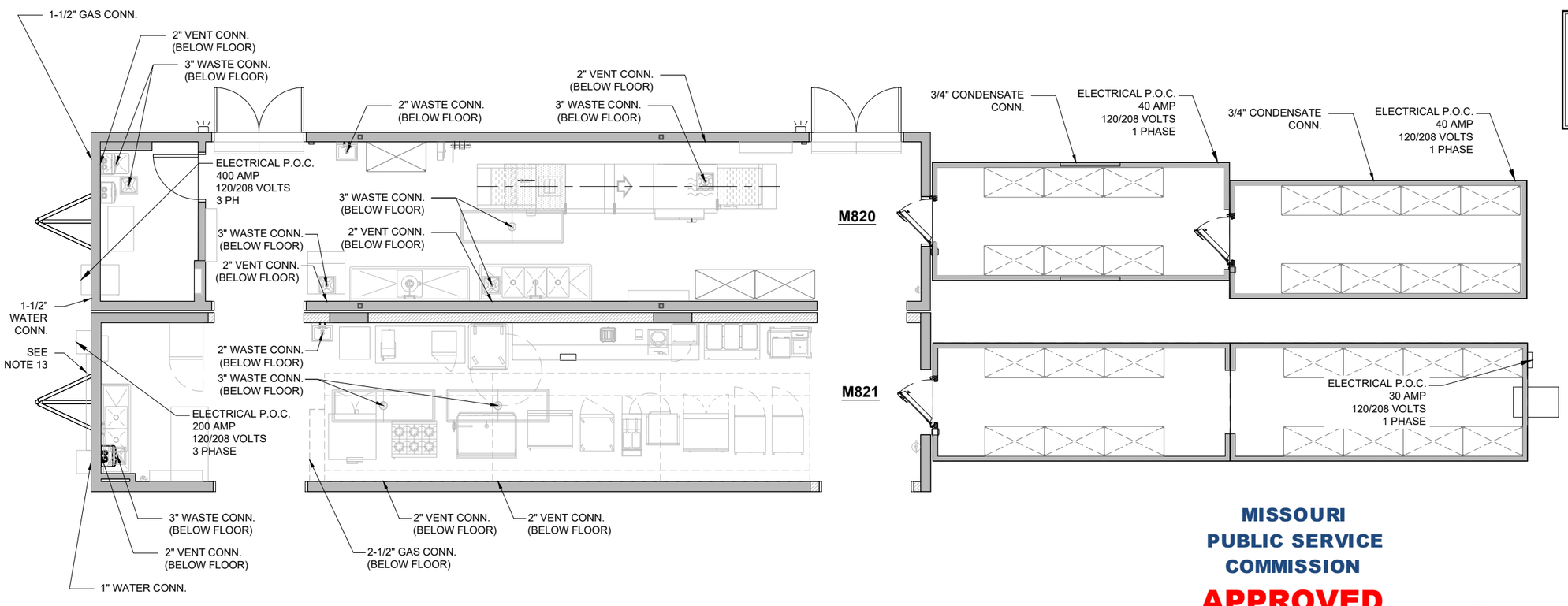
NOTE:
ADA COMPLIANT RAMPS, STAIRS, PLATFORMS, HANDRAILS AND GENERAL ACCESS TO THE BUILDING BY KTG ON SITE.

PROPANE PROJECT

MEP LOADS

P.O.C.	UNIT	PHASE	VOLTS	PANEL SIZE	MAIN BREAKER SIZE	ESTIMATED LOAD (AMPS)	NATURAL GAS		WATER POC	WASTE POC
							BTU/H	POC		
1	Cook (M821)	3	120/208	200	200	137	931,900	2-1/2"	1"	See note 9
2	MUA 1	3	120/208				213,310	1"		1" see note 4
3	MUA 2	3	120/208				478,859	1"		1" see note 4
4	Dist. Panel for MUA1 & MUA 2	3	120/208	200 (See note 7&8)	200	107				
5	Wash (M820)	3	120/208	400	400	271	743,000	1-1/2"	1-1/2"	See note 9
6	Walk-in Freezer	1	120/208		40	32				3/4" see note 4
7	Walk-in Cooler	1	120/208		40	32				3/4" see note 4
8	Dry Storage	1	120/208		30	24				3/4" see note 4
9	Serving (M681)	3	120/208	200	200	95				3/4" see note 4
10	Dining (M682)	3	120/208	200	200	90				3/4" see note 4
					TOTAL	788	2,387,069			

KEY NOTES	
1	Client to provide a water pressure regulator to deliver minimum 35 PSI to maximum 60 PSI, and a back flow preventer.
2	Client to provided soft water. Any water supply with over 3 grains per gallon is considered hard water and requires conditioning.
3	Client shall provide and install a grease trap.
4	Condensate drains to be indirectly connected to drywell or storm sewer by G.C. or their plumbing contractor.
5	Sprinkler system, if required, not included in above. Client to provide riser, valve, alarm and connection to each module.
6	Client to provide a gas pressure regulator to deliver (10" for Natural gas or 13" for Propane gas) of water column of pressure to the point of connection.
7	Electrical point of connection for MUA 1 , MUA 2 & Condensing units on the roof by G.C. or their electrical contractor.
8	Installation of Dist. Panel and connection to MUA 1 & 2 condensing units on the roof by G.C. or their electrical contractor, location to be approved by KTG.
9	Multiple plumbing fixtures and waste vents stub-outs under the units floor. All waste connections to be connected by G.C.
10	Electrical point of connection for exhaust fans and HVAC on the roof by G.C. or their electrical contractor.
11	Electrical point of connection for Walk-in Cooler, Walk-in Freezer and Dry Storage by G.C. or their electrical contractor.
12	Gas point of connection for make up air units and HVAC units on the roof by G.C. or their plumbing contractor.
13	Temporary connection between both exterior j-boxes to feed the UDS from the interior electrical panel (for gas/electric projects).
	These are estimations only, requirements may change per project specifics. Data, Phone, Security and Fire Alarm by others



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QUOTE NUMBER L24-050	UNIT NUMBER M820, M821, M681, M682

11x17 SCALE: 1/8"=1'-0"
22x34 SCALE: 1/4"=1'-0"

Kitchen Complex Utilties Floor Plan

Sheet **A-103A**

MEP LOADS

P.O.C.	UNIT	PHASE	VOLTS	PANEL SIZE	MAIN BREAKER SIZE	ESTIMATED LOAD (AMPS)	NATURAL GAS		WATER POC	WASTE POC
							BTU/H	POC		
1	Cook (M821)	3	120/208	200	200	137	931,900	2-1/2"	1"	See note 9
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8	Dry Storage	1	120/208		30	24				3/4" see note 4
9	Serving (M681)	3	120/208	200	200	95				3/4" see note 4
10	Dining (M682)	3	120/208	200	200	90				3/4" see note 4
					TOTAL	788	2,387,069			

KEY NOTES	
1	Client to provide a water pressure regulator to deliver minimum 35 PSI to maximum 60 PSI, and a back flow preventer.
2	Client to provided soft water. Any water supply with over 3 grains per gallon is considered hard water and requires conditioning.
3	Client shall provide and install a grease trap.
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	These are estimations only, requirements may change per project specifics. Data, Phone, Security and Fire Alarm by others

PROPANE PROJECT

MISSOURI PUBLIC SERVICE COMMISSION

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06/12/2025

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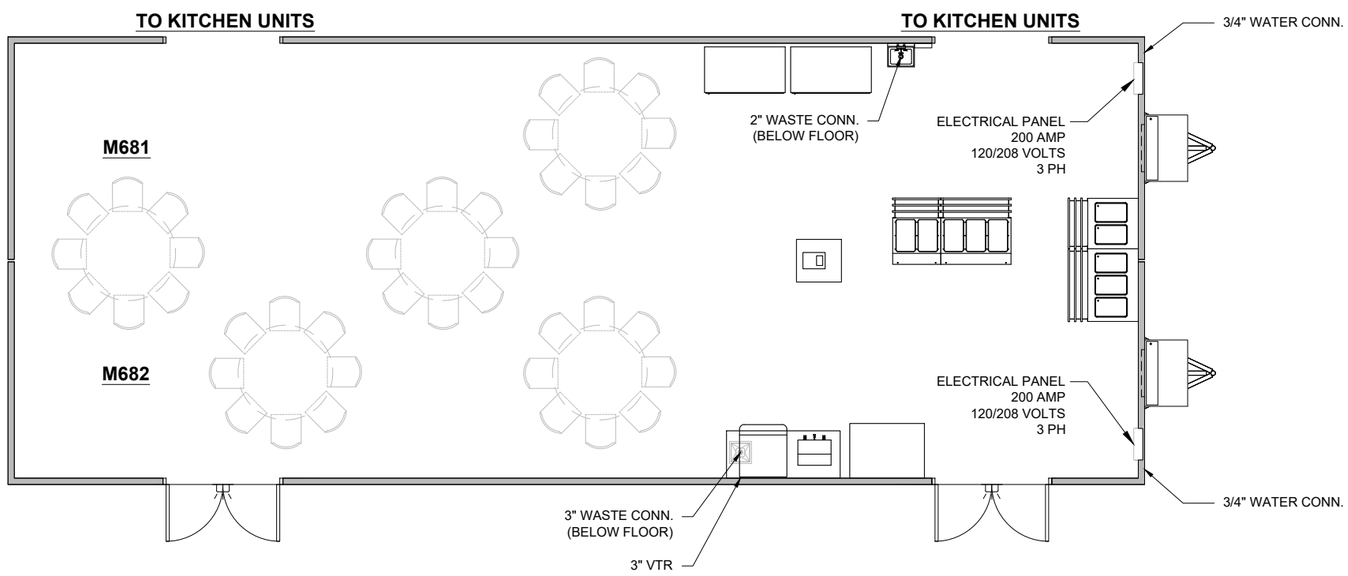

PROJECT NORTH

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STATE OF MISSOURI
GAYLORD RANSOM NUMBER E-27812
REGISTERED PROFESSIONAL ENGINEER

MCGRATH RENTCORP.
DBA KITCHENS TO GO
BY MOBILE MODULAR
DBA MOBILE MANAGEMENT CORP.
9876 WEST OLD US 30
ETNA GREEN, IN 46524

FDBY LEE'S SUMMIT MEDICAL CENTER

2100 SE Blue Pkwy
Lee's Summit, MO 64063

REV.	DATE	DESCRIPTION	NAME

DELTA - REV -

Drawn By: MMS	Approved By: -
QUOTE NUMBER L24-050	UNIT NUMBER M820, M821, M681, M682
11x17 SCALE: 1/8"=1'-0" 22x34 SCALE: 1/4"=1'-0"	

Servery Complex Utilties Floor Plan

Sheet

A-103B

MEP LOADS

P.O.C.	UNIT	PHASE	VOLTS	PANEL SIZE	MAIN BREAKER SIZE	ESTIMATED LOAD (AMPS)	NATURAL GAS		WATER POC	WASTE POC
							BTU/H	POC		
1	Cook (M821)	3	120/208	200	200	137	931,900	2-1/2"	1"	See note 9
2	MUA 1	3	120/208				213,310	1"		1" see note 4
3	MUA 2	3	120/208				478,859	1"		1" see note 4
4	Dist. Panel for MUA1 & MUA 2	3	120/208	200 (See note 7&8)	200	107				
5	Wash (M820)	3	120/208	400	400	271	743,000	1-1/2"	1-1/2"	See note 9
6	Walk-in Freezer	1	120/208		40	32				3/4" see note 4
7	Walk-in Cooler	1	120/208		40	32				3/4" see note 4
8	Dry Storage	1	120/208		30	24				3/4" see note 4
9	Serving (M681)	3	120/208	200	200	95				3/4" see note 4
10	Dining (M682)	3	120/208	200	200	90				3/4" see note 4
					TOTAL	788	2,387,069			

KEY NOTES	
1	Client to provide a water pressure regulator to deliver minimum 35 PSI to maximum 60 PSI, and a back flow preventer.
2	Client to provided soft water. Any water supply with over 3 grains per gallon is considered hard water and requires conditioning.
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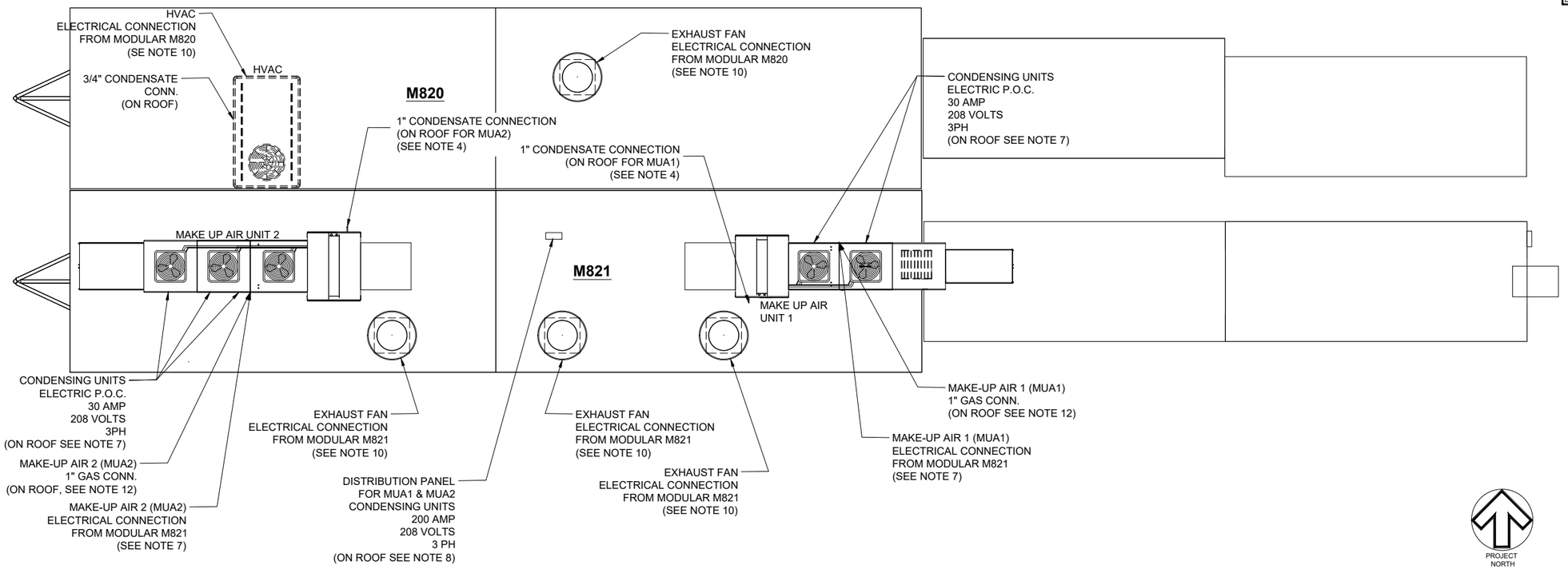
PROPANE PROJECT



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06/12/2025

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ETNA GREEN, IN 46524

FDBY LEE'S SUMMIT MEDICAL CENTER

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Approved By: -
QUOTE NUMBER: L24-050
UNIT NUMBER: M820, M821, M681, M682
11x17 SCALE: 1/8"=1'-0"
22x34 SCALE: 1/4"=1'-0"

Kitchen Complex Utilties Roof Plan

Sheet
A-103C

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PROPANE PROJECT

MISSOURI PUBLIC SERVICE COMMISSION

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FDBY LEE'S SUMMIT MEDICAL CENTER

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Approved By: -
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11x17 SCALE: 1/8"=1'-0"
22x34 SCALE: 1/4"=1'-0"

Servery Complex Utilties Roof Plan

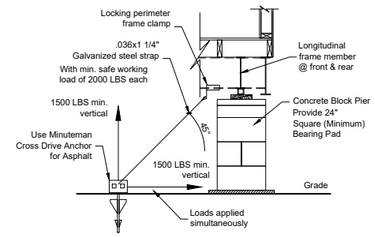
Sheet
A-103D

APPROXIMATE DEAD LOADS

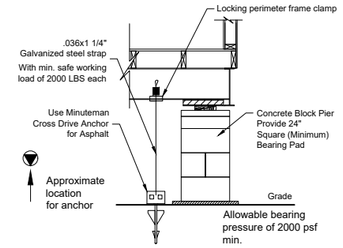
MARK	DESCRIPTION	WEIGHT (lbs)
1	COOK MODULE (M821)	58,000
2	WASH MODULE (M820)	45,000
3	SERVERY MODULE (M681)	40,000
4	SERVERY MODULE (M682)	40,000
5	WALK-IN COOLER	2,400
6	WALK-IN FREEZER	2,400
7	WALK-IN DRY STORAGE	4,800

MINUTEMAN CROSS DRIVE ANCHOR INSTALLATION INSTRUCTIONS:

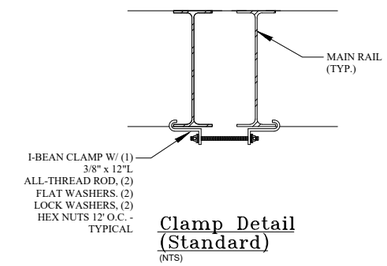
1. DRILL A VERTICAL 5/8" DIAMETER HOLE A MINIMUM OF 5 1/2" DEEP INTO THE ASPHALT AT CENTER OF ANCHOR LOCATION FOR PILOT STUD.
2. INSERT PILOT STUD AND ANCHOR BRACKET INTO HOLE. NOTE: DISTANCE FROM BRACKET BOTTOM TO ASPHALT SURFACE SHOULD NOT EXCEED 1".
3. DRILL TWO 3/4" DIAMETER HOLES INTO THE ASPHALT AT 45 DEGREE ANGLES, USING THE ANCHOR HEAD AS A LOCATION GUIDE.
4. DRIVE ROD A MINIMUM OF 80% OF ITS OVERALL LENGTH TO DEVELOP REQUIRED PULLOUT RESISTANCE.
5. PLACE SECOND ROD THROUGH REMAINING TUBE AND DRIVE TO 80% OF ITS OVERALL LENGTH TO DEVELOP REQUIRED PULLOUT RESISTANCE.
6. CONFIRM DISTANCE FROM BRACKET BOTTOM TO ASPHALT SURFACE DOES NOT EXCEED 1"
7. MATELINE BEAM CLAMPS NOT TO EXCEED 15' SEPARATION.



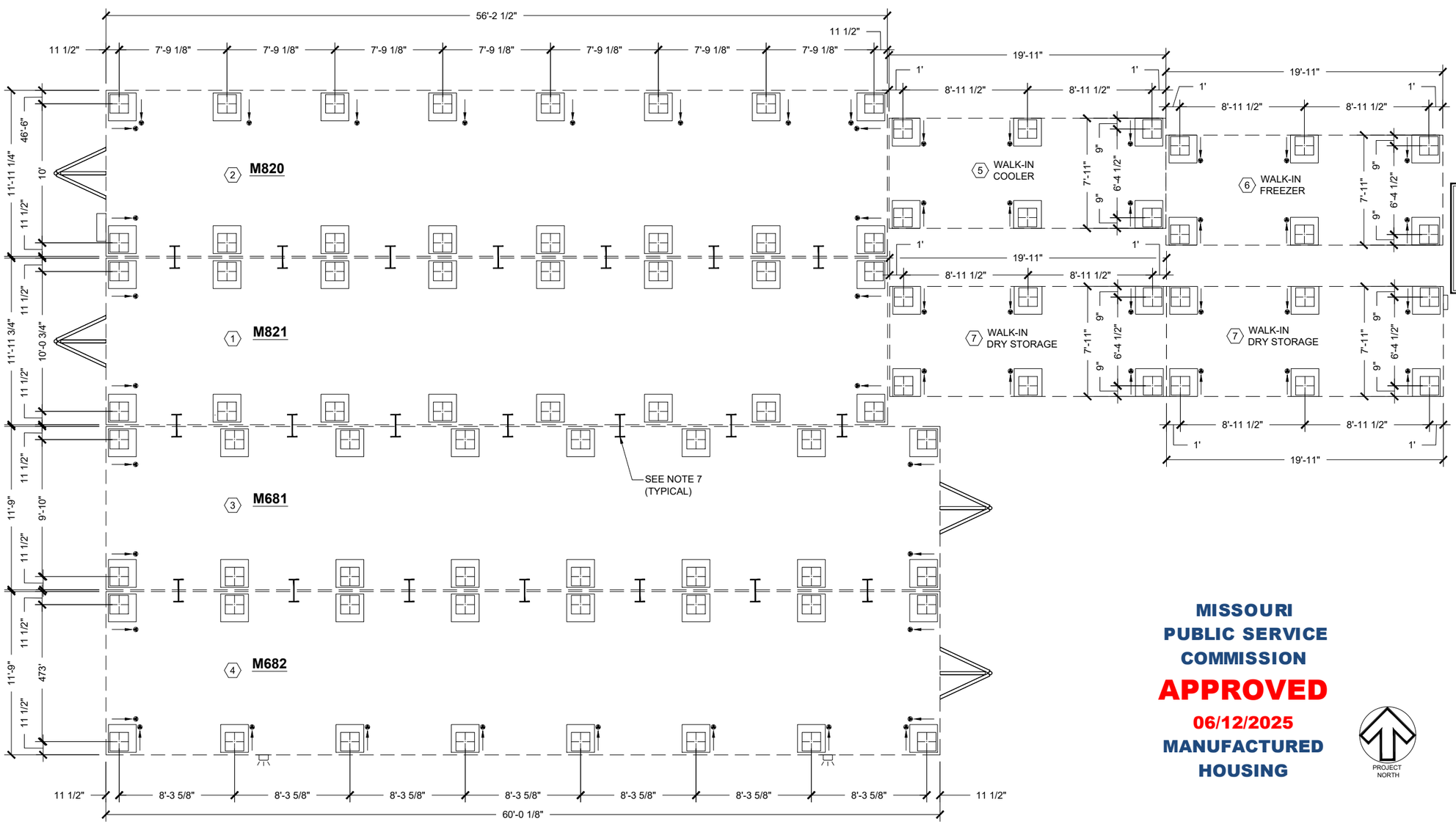
Pier Detail (Standard)
(NTS)



Pier Detail (Option #1)
(NTS)



Clamp Detail (Standard)
(NTS)



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Lee's Summit, MO 64063

REV.	DATE	DESCRIPTION	NAME

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Drawn By: MMS	Approved By: -
QUOTE NUMBER L24-050	UNIT NUMBER M820, M821, M681, M682
11x17 SCALE: 1/8"=1'-0"	22x34 SCALE: 1/4"=1'-0"

Pier Plan

Sheet
A-104

LEE'S SUMMIT MEDICAL CENTER SERVERY - M681

DRAWING INDEX

SHEET NO.	SHEET CREATED	DESCRIPTION	REV. NUMBER	REV. DATE	REV. NOTE
(M681) G-001		Cover Sheet & Drawing Index			
(M681) I-101		Interior Floor Plan and Equipment List			
(M681) E-101		Electrical Floor Plan Schematic			
(M681) E-601		Electrical Panel Schedule(S)			
(M681) M-101		HVAC Ducting Plan			
(M681) P-601		Fresh Water Plumbing Schematic			
(M681) P-602		Waste Water Plumbing Schematic			

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HCA MIDWEST HEALTH

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UNIT NUMBER M820, M821, M681, M682
11x17 SCALE: N/A
22x34 SCALE: N/A

Cover Sheet & Drawing Index

Sheet
(M681) G-001

SUBMITTAL SET

EQUIPMENT SCHEDULE:

CS = CLIENT SUPPLIED EQUIPMENT

ITEM NO.	DESCRIPTION	KTG	CS	ITEM NO.	DESCRIPTION	KTG	CS	ITEM NO.	DESCRIPTION	KTG	CS
1	36" Interior Door	X		23	Toaster		X	45	Water Heater	X	
2	72" Entry Door	X		24	Ticket Printer		X	46	Mop Sink	X	
3	36" Air Curtain	X		25	Induction Heat Activator		X	47	8' x 20' Walk-In Cooler	X	
4	Flight Type Dish Machine	X		26	Microwave		X	48	8' x 20' Walk-In Freezer	X	
5	Trench Drain	X		27	3 Well Hot Food Table	X		49	8' x 40' Walk-In Dry Storage	X	
6	Floor Sink	X		28	Heated Plate Dispenser	X		50	Open Air Merchandiser	X	
7	Hose Bib With 10' Hose And Nozzle Sprayer	X		29	Fire Extinguisher - "ABC" Type	X		51	Fountain Beverage Machine		X
8	Storage Rack - 48" x 24"		X	30	Hot Holding Cabinet	X		52	Cash Register		X
9	1 Compartment Sink	X		31	Work Top Refrigerator	X		53	Modular Cashier Unit	X	
10	Not Used			32	Dual Stack Convection Steamer	X		54	Hot Food Serving Counter - 3 Well	X	
11	Garbage Disposal	X		33	Fryer	X		55	Hot Food Serving Counter - 2 Well	X	
12	3 Compartment Sink	X		34	Reach-In Freezer	X		56	Cold Food Serving Counter - 3 Well	X	
13	Ice Machine W/ Bin	X		35	36" Griddle W/ Stand	X		57	Cold Food Serving Counter - 2 Well	X	
14	Electrical Panel	X		36	48" Tilt Skillet	X		58	Double Door Beverage Cooler		X
15	Reach-In Refrigerator	X		37	36" 6-Burner Countertop Range W/ Stand	X		59	Dining Table and Chairs		X
16	Hand Sink W/ Eye Wash Station	X		38	Dual Stack Convection Oven	X		60	Not Used		
17	Food Delivery Cart		X	39	Stainless Steel Exhaust Hood - Type 1 (Grease)	X		61	Not Used		
18	Coffee Brewer		X	40	Fire Suppression System	X		62	HVAC Unit	X	
19	Stainless Steel Work Table With Undershelf (30"X72")	X		41	Stainless Steel Work Table With Undershelf (30"X60")	X		63	Floor Sink, Covered & Sealed	X	
20	Countertop Freezer		X	42	Fire Extinguisher - "K" Type	X		64	Wall Storage Cabinet	X	
21	Airscreen Reach-In Refrigerator		X	43	2 Compartment Sink	X		65	Point of Use Water Heater	X	
22	Stainless Steel Work Table With Undershelf And Overshelf (30"X150")		X	44	Booster Heater	X					

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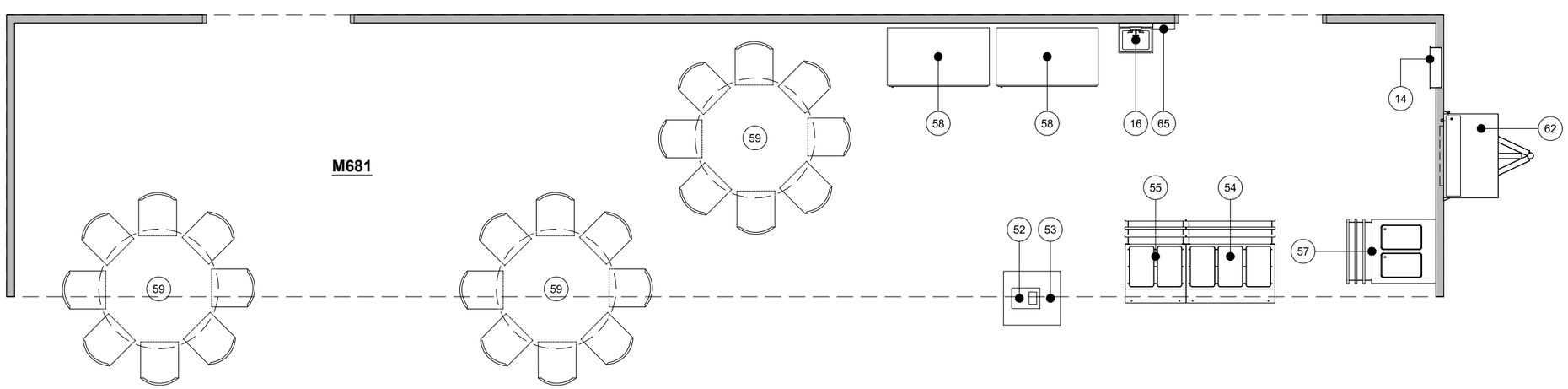

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QUOTE NUMBER L24-050
UNIT NUMBER M820, M821, M681, M682
11x17 SCALE: 3/16"=1'-0"
22x34 SCALE: 3/8"=1'-0"

Interior Floor Plan And Equipment List

Sheet
(M681) I-101

NOTES:

1. CONDUIT FROM ELECTRICAL PANEL TO EQUIPMENT JUNCTION BOX TO BE RUN INSIDE WALLS, CEILING OR UNDER FLOOR WHERE POSSIBLE.
2. ALUMINUM RACEWAY TO BE USED WHEN TRANSITION FROM ELECTRICAL PANEL TO JUNCTION BOX OR JUNCTION BOX TO JUNCTION BOX DOES NOT PERMIT RECESSED CONDUIT.
3. WHEN RECESSED JUNCTION BOX IS NOT POSSIBLE, USE A SURFACE MOUNTED ALUMINUM WATER TIGHT JUNCTION BOX.
4. ALL VERTICAL DIMENSIONS ARE FROM FINISH FLOOR. ALL HORIZONTAL DIMENSIONS ARE FROM INSIDE FINISH WALL.
5. WIRING ABOVE SUSPENDED CEILINGS SHALL BE AC CABLE OR SIMILAR. NM CABLE MAY NOT BE USED ABOVE SUSPENDED CEILINGS.
6. NOT USED.
7. ALL 120 VOLTS, 15 AND 20 AMP RECEPTACLES TO BE GFCI PROTECTED.
8. THE LIGHT INTENSITY SHALL BE AT LEAST 50 FOOT-CANDLES ON ALL FOOD PREPARATION SURFACES AND AT EQUIPMENT OR UTENSIL-WASHING WORK LEVELS.
9. THE LIGHT INTENSITY SHALL BE AT LEAST 20 FOOT-CANDLES AT A DISTANCE OF 30" ABOVE THE FLOOR IN THE FOLLOWING:
   A. UTENSIL AND EQUIPMENT STORAGE AREAS.
   B. SINKS AND TOILET AREAS.
   C. WALK-IN REFRIGERATION UNITS.
   D. DRY FOOD STORAGE AREAS.
   E. ALL OTHER AREAS.

   THIS INCLUDES THE AREAS WHERE FOOD IS PROVIDED FOR CONSUMER SELF-SERVICE, SUCH AS BUFFETS AND SALAD BARS, AND ROOMS DURING PERIODS OF CLEANING.
10. THE LIGHT INTENSITY SHALL BE AT LEAST 20 FOOT-CANDLES INSIDE EQUIPMENT, SUCH AS REACH-IN AND UNDER-COUNTER REFRIGERATORS.
11. EXCEPT AS SPECIFIED IN NOTE 13, LIGHT BULBS SHALL BE SHIELDED, COATED, OR OTHERWISE SHATTER-RESISTANT IN AREAS WHERE THERE IS:
   A. EXPOSED FOOD
   B. CLEAN EQUIPMENT, UTENSILS, AND LINENS; OR
   C. UNWRAPPED SINGLE-SERVICE AND SINGLE-USE ARTICLES.
12. SHIELDED, COATED, OR OTHERWISE SHATTER-RESISTANT BULBS NEED NOT BE USED ONLY FOR STORING FOOD IN UNOPENED PACKAGE IF THE:
   A. INTEGRITY OF THE PACKAGES CANNOT BE AFFECTED BY BROKEN GLASS FALLING ONTO THEM; AND
   B. PACKAGES ARE CAPABLE OF BEING CLEANED OF DEBRIS FROM BROKEN BULBS BEFORE THE PACKAGES ARE OPENED.
13. AN INFRARED OR OTHER HEAT LAMP SHALL BE PROTECTED AGAINST BREAKAGE BY SHIELD SURROUNDING AND EXTENDING BEYOND THE BULB SO THAT ONLY THE FACE OF THE BULB IS EXPOSED.
14. ALL ESSENTIAL ELECTRICAL SYSTEMS AND EMERGENCY SYSTEMS SHALL BE INSTALLED BY OTHERS.
15. CIRCUITS #C10, C24, AND C6 TO BE CORD DROPS.
16. UDS CIRCUIT NUMBERS ARE USED AS A GUIDE ONLY TO LOCATE THE CIRCUITS AND TO CALCULATE THE ELECTRICAL LOAD FOR THE TWO UDS SECTIONS.
17. ALL EXIT & EMERGENCY WALL PACK LTS. TO BE CONNECTED TO NEAREST UNSWITCHED LTG. CIRCUIT PER NEC.
18. ALL 15 & 20 AMP RATED RECEPTACLES IN KITCHEN SPACE SHALL BE GFI PROTECTED PER NEC.
19. MOTOR RATED SWITCH DISCONNECT FOR WATER HEATER.
20. PROVIDE SUITABLE DISCONNECT SWITCH FOR AIR CURTAIN IF NOT FACTORY INSTALLED.

ELECTRICAL SYMBOL LEGEND	
	4' - LED LIGHT FIXTURE
	24" X 48" LED (2) TUBE (LAY-IN) W/ PRISMATIC LENS EMERGENCY BATTERY BACKUP
	4' - 4 TUBE FLUORESCENT FIXTURE
	4' - 3 TUBE FLUORESCENT FIXTURE
	SINGLE OUTLET - FLUSH MOUNTED
	DUPLEX OUTLET - FLUSH MOUNTED
	DUPLEX OUTLET - SURFACE MOUNTED
	FOURPLEX OUTLET - FLUSH MOUNTED
	FOURPLEX OUTLET - SURFACE MOUNTED
	HARDWIRE CONNECTION - FLUSH MOUNTED
	HARDWIRE CONNECTION - SURFACE MOUNTED
	208V OUTLET - FLUSH MOUNTED
	208V OUTLET - SURFACE MOUNTED
	EXHAUST FAN
	SWITCH - FLUSH MOUNTED
	SWITCH - SURFACE MOUNTED
	3-WAY SWITCH - FLUSH MOUNTED
	3-WAY SWITCH - SURFACE MOUNTED
	DENOTES CIRCUIT NUMBER (#8)
	EXT. SCENE LIGHT / ENTRY LIGHT
	VAPOR PROOF LIGHT/HOOD LIGHT
	EMERGENCY EXIT LIGHT

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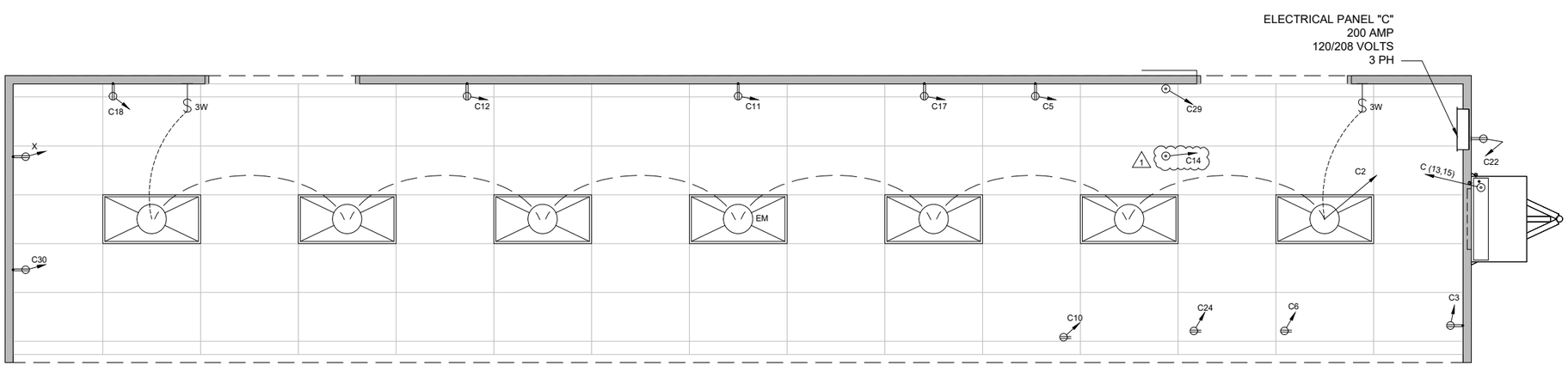

M681

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STATE OF MISSOURI GAYLORD RANSOM NUMBER E-27812 REGISTERED PROFESSIONAL ENGINEER

APPROVED BY CLIENT

BY:

DATE:

HCA MIDWEST HEALTH

FDBY LEE'S SUMMIT MEDICAL CENTER

2100 SE Blue Pkwy
Lee's Summit, MO 64063

REV.	DATE	DESCRIPTION	NAME
1	04-25-25	Per Deviation Report	MMS

DELTA 1 | REV 1

Drawn By: MMS	Approved By: -
QUOTE NUMBER L24-050	UNIT NUMBER M820, M821, M681, M682

11x17 SCALE: 3/8"=1'-0"
22x34 SCALE: 3/4"=1'-0"

Electrical Floor Plan Schematic

Sheet

(M681) E-101

NOTES:

1. STANDARD WEIGHT RIGID METAL CONDUIT SHALL BE HOT DIPPED GALVANIZED, ALL FITTINGS SHALL BE OF THE SCREW THREAD TYPE. COUPLINGS, LOCKNUTS, BUSHINGS, ETC., SHALL BE HOT DIPPED GALVANIZED.
2. ELECTRICAL METALLIC TUBING (EMT) SHALL BE GALVANIZED. COUPLINGS AND CONNECTORS SHALL BE GALVANIZED. FITTINGS SHALL BE COMPRESSION TYPE WITH GLAND SEALING RINGS OR SET SCREW TYPE.
3. FLEXIBLE CONDUIT SHALL BE GALVANIZED STEEL OR ALUMINUM. WHERE USED IN DAMP OR WET LOCATIONS FLEXIBLE CONDUIT SHALL BE OF THE LIQUID-TIGHT TYPE WITH OUTER NEOPRENE JACKET AND SUITABLE LIQUID-TIGHT FITTINGS.
4. WIRE AND CABLE FOR USE ON SYSTEMS OF 50 VOLTS TO 600 VOLTS SHALL BE 600 VOLT RATED TYPE THW OR THHN FOR BRANCH CIRCUITS. FEEDERS SHALL BE THHN (THWN IN WET LOCATIONS).
5. WIRE AND CABLE FOR USE ON SYSTEMS OF BELOW 50 VOLTS SHALL BE 300 VOLT PVC INSULATED AND SUITABLE FOR THE CLASS OF WIRING EXCEPT AS OTHERWISE INDICATED OR SPECIFIED.
6. ALL CONDUCTORS SHALL BE COPPER. MIN. SIZE - 12GA THHN (THWN IN WET LOCATIONS)
7. STANDARD WEIGHT RIGID METAL CONDUIT SHALL BE USED WHERE EXPOSED TO THE WEATHER, PLACED UNDERGROUND BELOW CONCRETE SLAB, IN CONCRETE OR MASONRY CONSTRUCTION IN CONTACT WITH EARTH.
8. GALVANIZED STEEL ELECTRICAL METALLIC TUBING SHALL BE USED IN ABOVE GROUND, INTERIOR, DRY LOCATIONS PROTECTED FROM WEATHER AND PHYSICAL DAMAGE, AND MAY BE USED IN CONCRETE OR MASONRY CONSTRUCTION NOT IN CONTACT WITH EARTH.
9. FLEXIBLE METALLIC CONDUIT SHALL BE USED TO CONNECT CONDUIT SYSTEMS TO MOTORS, DIRECT WIRED AND VIBRATING EQUIPMENT AND AS A FINAL CONNECTION TO LIGHTING FIXTURES (6' MAX) IN ACCESSIBLE CEILINGS. IT MAY BE USED AS A WIRING SYSTEM INSTEAD OF EMT IN INTERIOR WALLS ONLY (DRY FRAME OR STUD CONSTRUCTION).
10. LIQUIDTIGHT FLEXIBLE METAL CONDUIT SHALL BE USED FOR FINAL ELECTRICAL CONNECTIONS TO ROOF TOP OR OTHER EQUIPMENT EXPOSED TO THE ENVIRONMENT.

LEE SUMMIT MEDICAL CENTER

200 AMP — 120/208VOLTS — 4 WIRE — 60HZ — 3PH — **M681 - C**

AWG	COLOR	ITEM	TYPE LOAD	P	AMPS	CIRC.	PHASE A		PHASE B		PHASE C		P	AMPS	CIRC.	TYPE LOAD	ITEM	AWG	COLOR
12	B	SPACE	K	1	20	1	0	800					1	20	2	L	LIGHTS	12	B
12	R	5 WELL COLD FOOD TABLE	K	1	20	3			1020	0					4		SPACE		
		57																	
12	BL	BEVERAGE COOLER 1	K	1	20	5					1020	1500	1	20	6	K	3 WELL HOT FOOD TABLE	12	BL
		58															54		
		SPACE				7	0	0							8		SPACE		
		SPACE				9			0	400			1	20	10	K	CASH REGISTER	12	R
																	52		
12	BL	RECEPT	R	1	20	11					1200	1200	1	20	12	R	RECEPT	12	BL
					GFI									GFI					
4	B	HVAC 5T/15KW	H	2	90	13	8840	600					1	20	14	CL	HEAT TAPE	12	B
4	R	"	H	-	90	15			8840	0					16		SPACE		
12	BL	BEVERAGE COOLER 2	K	1	20	17					1020	1200	1	20	18	R	RECEPT	12	BL
		58												GFI					
		SPACE				19	0	0							20		SPACE		
		SPACE				21			0	1200			1	20	22	R	SERVICE RECEPTACLE	12	R
														GFI					
		SPACE				23					0	996			24	K	2 WELL HOT FOOD TABLE	12	BL
																	55		
		SPACE				25	0	0							26		SPACE		
		SPACE				27			0	0					28		SPACE		
12	BL	WATER HEATER	K	1	20	29					1800	1200	1	20	30	R	RECEPT	12	BL
														GFI					
							8840	1400	9860	1600	5040	6096							
							10240		11460		11136								

		CONN. VA		DEMAND FACTOR	DEMAND VA
TOTAL KITCHEN LOAD	=	7756	X	0.8	6204.8
TOTAL LIGHTING LOAD	=	800	X	1.25	1000.0
TOTAL NON-CONT. LOAD	=	0	X	1	0.0
TOAL RECEPTACLE LOAD	=	6000	X	1	6000.0
TOTAL CONTINUOS LOAD	=	600	X	1.25	750.0
TOTAL HVAC LOAD	=	17680	X	1	17680.0
LARGEST MOTOR LOAD	=	0	X	1.25	0.0
TOTAL MISC. LOAD	=	0	X	1	0.0
TOTAL VA PANEL "A"	=	32836			31634.8
TOTAL VA	=	32836			31634.8
TOAL AMPS	=	91.1			87.8

TOTAL= 32836 VA

I = 91.1 AMPS

LOAD TYPE KEY:

K	=	KITCHEN LOAD
L	=	LIGHTING LOAD
NC	=	NON-CONTINUOS LOAD
R	=	RECEPTACLE LOAD
CL	=	CONTINUOS LOAD
H	=	HVAC LOAD
LM	=	LARGEST MOTOR LOAD
M	=	MISC.

1

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STATE OF MISSOURI — GAYLORD RANSOM NUMBER E-27812 — REGISTERED PROFESSIONAL ENGINEER

HCA MIDWEST HEALTH

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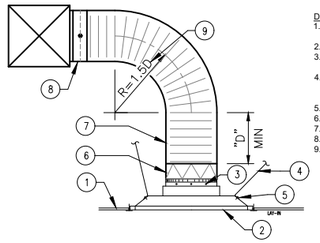
QUOTE NUMBER: L24-050
UNIT NUMBER: M820, M821, M681, M682
11x17 SCALE: N/A
22x34 SCALE: N/A

Electrical Panel Schedule(S)

Sheet

(M681) E-601



DIFFUSER INSTALLATION NOTES
1. ACOUSTICAL LAY-IN T-BAR CEILING, SEE ARCHITECTURAL DRAWINGS.
2. TYPICAL LAY-IN DIFFUSER.
3. #7 x 1/2" S/M SCREWS, (4" O.C. MIN.) TAPE w/ 2" MASTIC TAPE.
4. SUPPORT DIFFUSER WITH (4) 1-1/2" x 26 GA. GALVANIZED S/M STRAPS, SECURE TO STRUCTURE ABOVE.
5. SHEET METAL SCREW, (TYPICAL).
6. VOLUME DAMPER
7. FLEXIBLE DUCT
8. SPIN-IN FITTING W/ BUTTERFLY DAMPER
9. "D" IS THE THROAT DIAMETER

1 TYP. DIFFUSER INSTALLATION
LAY-IN T-BAR MOUNTING
NTS

NOTES:
1. THERMOSTAT TO BE LOCATED 48" A.F.F.
2. LOW PRESSURE DUCTWORK SHALL BE CONSTRUCTED OF ZINC COATED SHEET STEEL OR DUCT BOARD.
3. ZINC COATED SHEET STEEL SHALL CONFORM TO THE LATEST VERSION OF SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
4. DUCT BOARD SHALL CONFORM TO THE LATEST VERSION OF SMACNA FIBROUS GLASS DUCT CONSTRUCTION STANDARDS OR NAIMA FIBROUS GLASS DUCT CONSTRUCTION STANDARDS.
5. FLEXIBLE AIR DUCT FOR CONNECTIONS BETWEEN LOW PRESSURE DUCT TO DIFFUSERS SHALL BE EQUAL TO THERMAFLEX G-KM. DUCT SHALL BE LISTED BY UNDERWRITER'S LABORATORIES UNDER UL 181 STANDARDS AS CLASS 1 FLEXIBLE AIR DUCT MATERIAL AND SHALL COMPLY WITH NFPA STANDARDS 90A AND 90B. DUCT SHALL BE RATED TO OPERATE AT PRESSURES UP TO 6" W.G. (1500 PA) FOR SIZES 16" AND SMALLER. MAXIMUM LENGTH OF FLEXIBLE AIR DUCT SHALL BE 7 FEET.
6. KEEP ALL OUTSIDE AIR INTAKES 10' FROM EXHAUST AIR VENTS PER CODE.
7. INSULATE DUCT ABOVE CEILING WITH R-6 DUCT WRAP. MASTIC AND SEAL ALL JOINTS.
8. THE DUCTWORK AND EQUIPMENT ARE SHOWN DIAGRAMMATIC. FIELD VERIFY DIMENSIONS PRIOR TO FABRICATION AND INSTALLATION.
9. AIR FLOW SHALL BE BALANCED TO OBTAIN QUANTITIES SHOWN ON FLOOR PLANS. CAREFULLY ADJUST DAMPERS FOR ALL DUCTWORK AND AIR OUTLETS AND RECORD READINGS WHICH CORRESPOND TO THE DESIGN FLOW RATES AT EACH OUTLET. TEST AND BALANCE THE COMPLETE AIRSIDE SYSTEM IN ACCORDANCE WITH "SMACNA T.A.B." PROCEDURES.
10. MODULES MAY HAVE EXISTING DUCTWORK INSTALLED. IF DUCTWORK DIMENSIONS ARE THE SAME OR LARGER AS DUCTWORK SHOWN EXISTING DUCTWORK SHALL BE REUSED AND REMAIN IN PLACE.
11. AC UNIT OUTSIDE AIR DAMPER TO BE POSITIONED TO PROVIDE THE FLOWRATE SHOWN BELOW.

MARK	DESCRIPTION
A	T-BAR DIRECTIONAL VOLUME DIFFUSERS. FULL SIZE SQUARE 2'x2' DIRECTIONAL T-BAR DIFFUSER, ROUND COLLAR, SEISMIC SUPPORT HANGERS, SHOEMAKER 105PD SERIES PERFORATED T-BAR DIFFUSERS.

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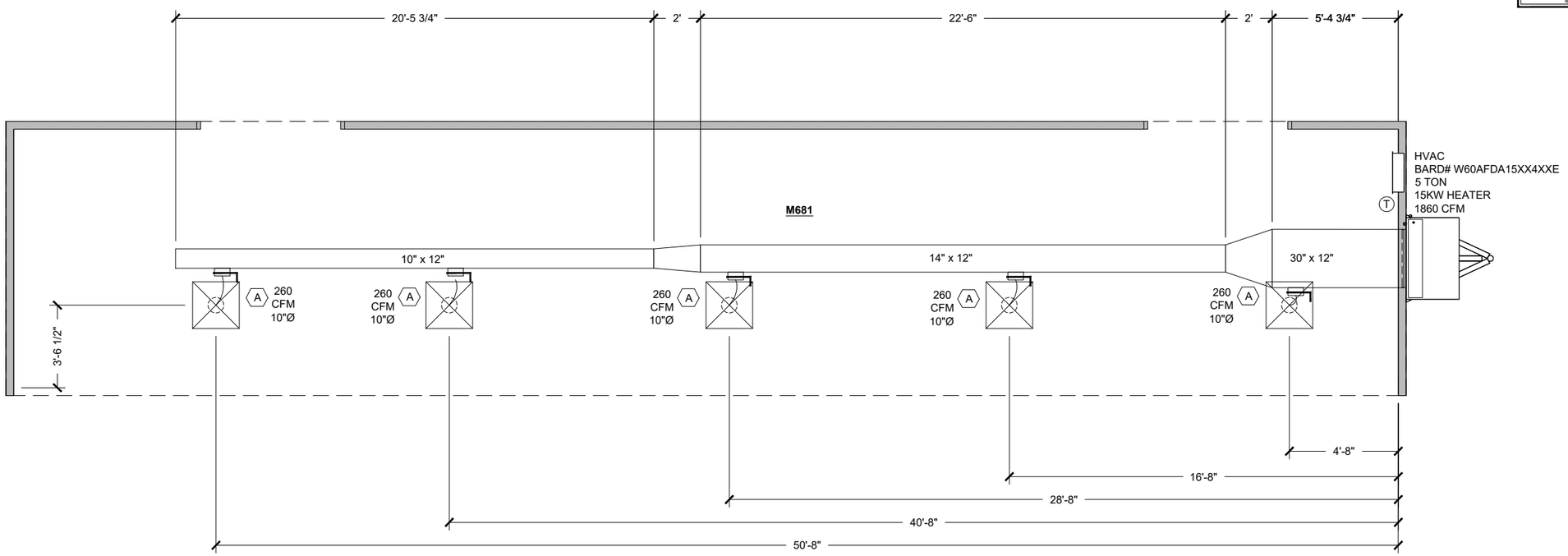

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STATE OF MISSOURI
GAYLORD RANSOM NUMBER E-27812
REGISTERED PROFESSIONAL ENGINEER

MCGRATH RENTCORP.
DBA KITCHENS TO GO
BY MOBILE MODULAR
DBA MOBILE MANAGEMENT CORP.
9876 WEST OLD US 30
ETNA GREEN, IN 46524

HCA MIDWEST HEALTH

FDBY LEE'S SUMMIT MEDICAL CENTER

2100 SE Blue Pkwy
Lee's Summit, MO 64063

REV.	DATE	DESCRIPTION	NAME

DELTA - REV -

Drawn By: MMS	Approved By: -
QUOTE NUMBER L24-050	UNIT NUMBER M820, M821, M681, M682

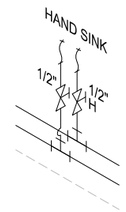
11x17 SCALE: 3/8"=1'-0"
22x34 SCALE: 3/4"=1'-0"

HVAC Ducting Plan

Sheet
(M681) M-101

NOTES :

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT CODES AND REGULATIONS.
2. USE PEX (WHEN NOT VISUALLY EXPOSED TO INTERIOR OR EXTERIOR) OR COPPER PIPE TYPE K OR L WHEN EXPOSED TO PLUMB WATER LINES UNLESS OTHERWISE SPECIFIED.
3. ALL LINES SHALL BE ADEQUATELY SUPPORTED WITH GALV. STL. 2 HOLE STRAPS AT 3' O.C. MAX.
4. ALWAYS USE ROUND RUBBER GROMMETS WHENEVER PLUMBING LINES RUN THRU METAL PLATES, SKIN, CURB, ETC.
5. PRESSURE TEST WATER LINES (90-100 PSI) FOR LEAKS PRIOR TO EQUIPMENT FINAL CONNECTIONS.
6. FOR STORAGE: DRAIN WATER LINES.
7. EXPOSED SURFACE LINES SHALL NOT BE RUN UNLESS APPROVED BY CARLIN MANUFACTURING
8. FOR MOP SINK USE 8" ADJ. SERVICE SINK FAUCET WITH SHORT SPOUT AND VACUUM BREAKER.
9. WRAP ALL HOT WATER LINES WITH PIPE INSULATION.
10. PIPES TO BE RUN HORIZONTALLY UNDER THE FLOOR AS CLOSE AS POSSIBLE TO BOTTOM OF THE FLOOR EXCEPT WHERE NOTED.
11. PRESSURE AVAILABLE ON SITE TO BE MAXIMUM 55PSI - MINIMUM 40PSI.
12. FOR COLD CLIMATE LOCATION ;
    12.1. IF UNIT IS IN USE MAKE SURE THAT THE HEAT TAPE IS ALWAYS "ON"
    12.2. IF THE UNIT IS NOT IN USE OR IN STORAGE, DRAIN ALL WATER AND WASTE LINES TO AVOID DAMAGE TO PIPES DUE TO EXPOSURE TO FREEZING TEMPERATURES.
13. WHEN METAL FITTINGS (PEX) ARE EXPOSED TO METAL WALL STRUCTURAL, NEED TO ADD A THERMAL BREAK.
14. WRAP ALL HOT & COLD PIPING THAT RUNS UNDER THE FLOOR WITH PIPE INSULATION.
15. WATER HEATER TEMPERATURE CAN BE ADJUSTED FROM 120°F TO 140°F.
16. WATER ID BEING SUPPLIED FROM THE EXISTING BUILDING. REFER TO PLUMBING DOCUMENTS, SHEET P310.1 PLAN NOTE #32.



TYPICAL FRESH WATER CONNECTION DETAIL

SYM	DESCRIPTION
H	HOT WATER LINE
C	COLD WATER LINE
	PRESSURE REGULATOR
	VALVE, BRASS BALL
	TEE
	90° ELBOW
	FLEX HOSE ASSEMBLY (S.S. BRAIDED MPT x FPT SWIVEL)
	QUICK DISCONNECT
	VALVE 3-WAY
	PUMP
	VACUUM BREAKER
	REDUCER
	CHECK VALVE
	POINT OF CONNECTION
	WATER FILTRATION SYSTEM
	PENETRATION
	HOSE BIBB
	CAP
	BOILER DRAIN VALVE
	PRESSURE RELIEF VALVE
	UNION

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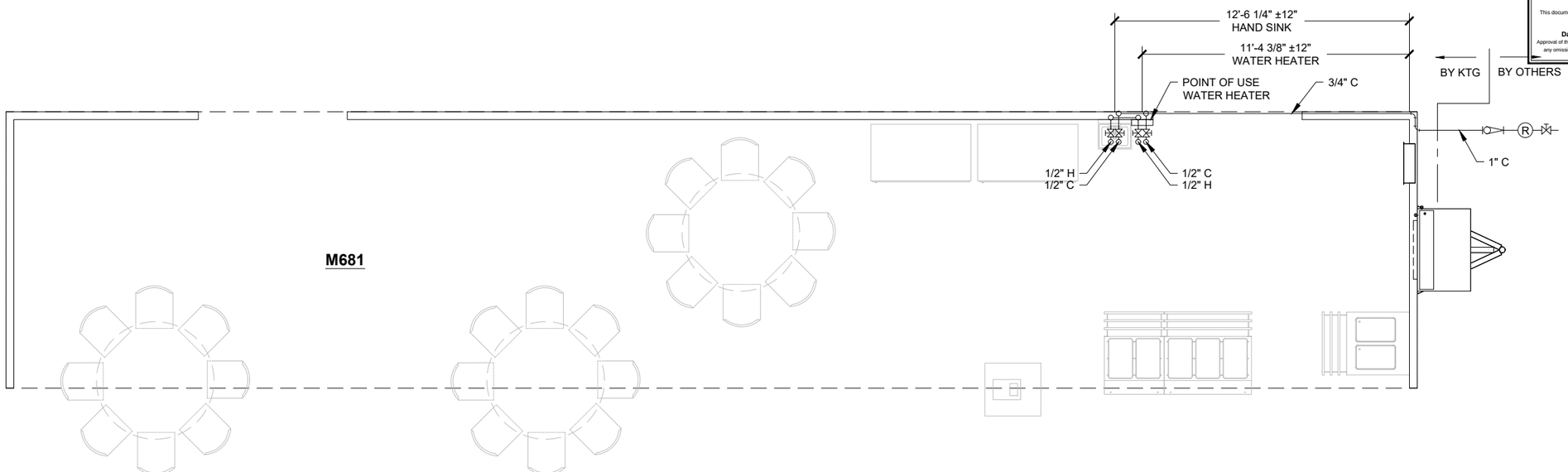

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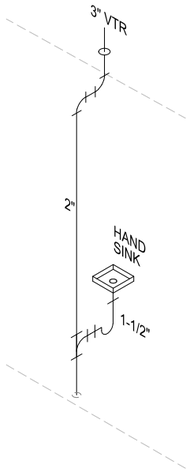
22x34 SCALE: 3/4"=1'-0"

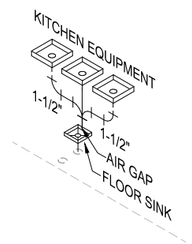
Fresh Water Plumbing Schematic

Sheet

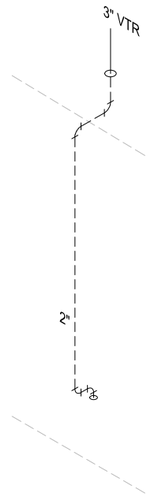
(M681) P-601



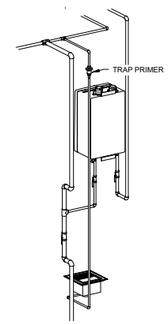
TYPICAL HAND SINK WASTE WATER DETAIL



TYPICAL WASTE WATER CONNECTION DETAIL



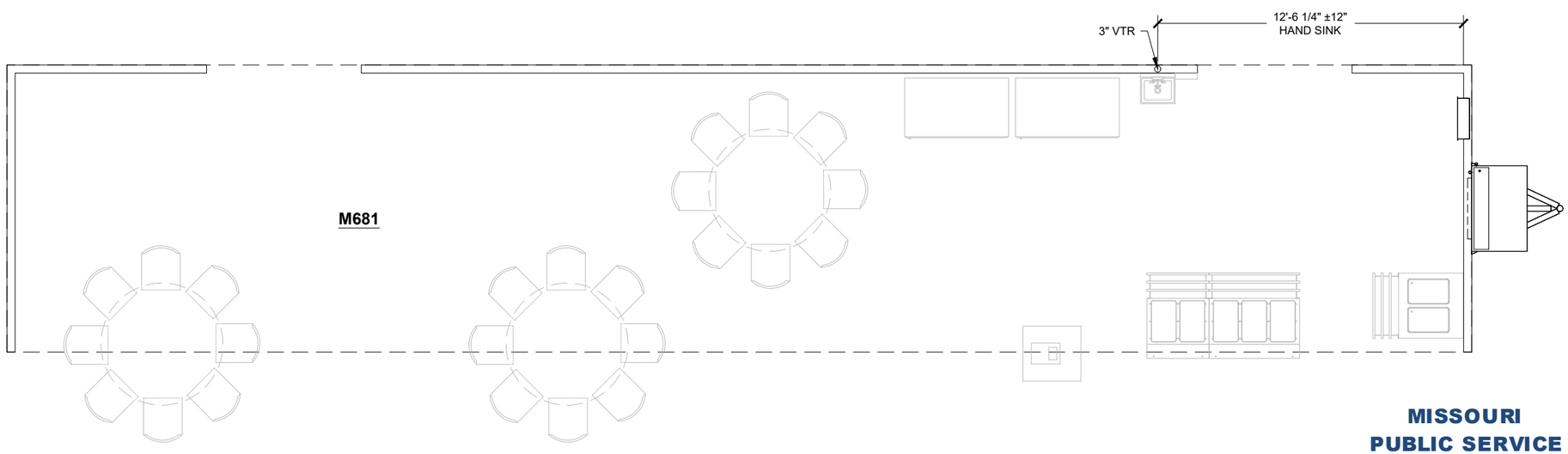
TYPICAL VTR WASTE WATER DETAIL



TYPICAL TRAP PRIMER DETAIL

WASTE WATER PLUMBING NOTES:

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT PLUMBING CODES AND REGULATIONS.
2. ALWAYS USE ROUND RUBBER GROMMETS WHENEVER PLUMBING LINES RUN THRU METAL PLATES, SKIN, CURBS, ETC
3. ALL LINES SHALL BE ADEQUATELY SUPPORTED WITHGALV. STL 2 HOLE STRAPS AT 3' O.C. MAX.
4. TERMINATION VENT SHALL BE MINIMUM 3 INCHES IN DIAMETER. ANY INCREASE IN THE SIZE OF THE VENT SHALL BE MADE INSIDE THE STRUCTURE A MINIMUM OF 18 INCHES BELOW THE ROOF.
5. DRAIN LINES SHALL BE CPVC DWV WHERE REQUIRED FOR HIGH TEMPERATURE EQUIPMENT, OTHERWISE USE ABS DWV, PVC DWV OR OTHER APPROVED MATERIALS.
6. SEWER LINES FROM FLOOR SINKS SHALL ALL BE SCHEDULE 40 PVC DWV OR SCHEDULE 40 ABS DWV UNLESS OTHERWISE SPECIFIED.
7. FLOOR SINKS SHALL BE MOUNTED FLUSH WITH FINISHED FLOOR.
8. EXPOSED SURFACE LINES SHALL NOT BE RUN UNLESS APPROVED BY KITCHENS TO GO BY MOBILE MODULAR.
9. PIPES TO BE RUN HORIZONTALLY UNDER THE FLOOR AS CLOSE AS POSSIBLE TO BOTTOM OF THE FLOOR EXCEPT WHERE NOTED, MAINTAINING A SLOPE OF 1/4" PER FOOT.
10. HVAC & MUA CONDENSATION LINES SHALL BE PVC OR OTHER APPROVED MATERIALS. HVAC & MUA CONDENSATION LINES TO BE CONNECTED TO CLOSEST VTR.
11. WALK-IN COOLER CONDENSATE LINE TO DRAIN TO A APPROVED DRAIN LINE.
12. CLEAN OUTS ARE TO BE READILY ACCESSIBLE ABOVE GRADE (TYP)
13. ALL PLUMBING CONNECTIONS UNDER THE FLOOR TO BE DONE BY G.C. CONNECTIONS UNDER THE FLOOR SHOWN AS A SUGGESTED LAYOUT ONLY.
14. FOR COLD CLIMATE LOCATION:
    a) IF UNIT IS IN USE MAKE SURE THAT HEAT TAPE IS ALWAYS ON.
    b) IF THE UNIT IS NOT IN USE OR IS IN STORAGE, DRAIN ALL WATER & WASTE LINES TO AVOID DAMAGE TO PIPES DUE TO EXPOSURE TO FREEZING TEMPERATURES.
16. INDIRECT PLUMBING MUST HAVE A MINIMUM 2" AIR GAP OR 2 TIMES THE PIPE ID, WHICHEVER IS LARGER.
17. WASTE TANK SHALL BE CONSTRUCTED OF POLYPROPYLENE PLASTIC.



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Elkhart, IN 46516
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Accredited Evaluation and Inspection Agency
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STATE OF MISSOURI
GAYLORD RANSOM
NUMBER E-27812
PROFESSIONAL ENGINEER

MCGRATH RENTCORP.
DBA KITCHENS TO GO
BY MOBILE MODULAR
DBA MOBILE MANAGEMENT CORP.
9876 WEST OLD US 30
ETNA GREEN, IN 46524

HCA MIDWEST HEALTH

FDBY LEE'S SUMMIT MEDICAL CENTER

2100 SE Blue Pkwy
Lee's Summit, MO 64063

REV.	DATE	DESCRIPTION	NAME

DELTA - REV -

Drawn By: MMS	Approved By: -
QUOTE NUMBER L24-050	UNIT NUMBER M820, M821, M681, M682

11x17 SCALE: 3/16"=1'-0"
22x34 SCALE: 3/8"=1'-0"

Waste Water Plumbing Schematic

Sheet
(M681) P-602

LEE'S SUMMIT MEDICAL CENTER SERVERY UNIT - M682

DRAWING INDEX

SHEET NO.	SHEET CREATED	DESCRIPTION	REV. NUMBER	REV. DATE	REV. NOTE
(M682) G-001		Cover Sheet & Drawing Index			
(M682) I-101		Interior Floor Plan and Equipment List			
(M682) E-101		Electrical Floor Plan Schematic			
(M682) E-601		Electrical Panel Schedule(S)			
(M682) M-101		HVAC Ducting Plan			
(M682) P-601		Fresh Water Plumbing Schematic			
(M682) P-602		Waste Water Plumbing Schematic			

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Approved By: -
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UNIT NUMBER M820, M821, M681, M682
11x17 SCALE: N/A
22x34 SCALE: N/A

Cover Sheet & Drawing Index

Sheet
(M682) G-001

EQUIPMENT SCHEDULE:

CS = CLIENT SUPPLIED EQUIPMENT

ITEM NO.	DESCRIPTION	KTG	CS	ITEM NO.	DESCRIPTION	KTG	CS	ITEM NO.	DESCRIPTION	KTG	CS
1	36" Interior Door	X		23	Toaster		X	45	Water Heater	X	
2	72" Entry Door	X		24	Ticket Printer		X	46	Mop Sink	X	
3	36" Air Curtain	X		25	Induction Heat Activator		X	47	8' x 20' Walk-In Cooler	X	
4	Flight Type Dish Machine	X		26	Microwave		X	48	8' x 20' Walk-In Freezer	X	
5	Trench Drain	X		27	3 Well Hot Food Table	X		49	8' x 40' Walk-In Dry Storage	X	
6	Floor Sink	X		28	Heated Plate Dispenser	X		50	Open Air Merchandiser	X	
7	Hose Bib With 10' Hose And Nozzle Sprayer	X		29	Fire Extinguisher - "ABC" Type	X		51	Fountain Beverage Machine		X
8	Storage Rack - 48" x 24"		X	30	Hot Holding Cabinet	X		52	Cash Register		X
9	1 Compartment Sink	X		31	Work Top Refrigerator	X		53	Modular Cashier Unit	X	
10	Not Used			32	Dual Stack Convection Steamer	X		54	Hot Food Serving Counter - 3 Well	X	
11	Garbage Disposal	X		33	Fryer	X		55	Hot Food Serving Counter - 2 Well	X	
12	3 Compartment Sink	X		34	Reach-In Freezer	X		56	Cold Food Serving Counter - 3 Well	X	
13	Ice Machine W/ Bin	X		35	36" Griddle W/ Stand	X		57	Cold Food Serving Counter - 2 Well	X	
14	Electrical Panel	X		36	48" Tilt Skillet	X		58	Double Door Beverage Cooler		X
15	Reach-In Refrigerator	X		37	36" 6-Burner Countertop Range W/ Stand	X		59	Dining Table and Chairs		X
16	Hand Sink W/ Eye Wash Station	X		38	Dual Stack Convection Oven	X		60	Not Used		
17	Food Delivery Cart		X	39	Stainless Steel Exhaust Hood - Type 1 (Grease)	X		61	Not Used		
18	Coffee Brewer		X	40	Fire Suppression System	X		62	HVAC Unit	X	
19	Stainless Steel Work Table With Undershelf (30"X72")	X		41	Stainless Steel Work Table With Undershelf (30"X60")	X		63	Floor Sink, Covered & Sealed	X	
20	Countertop Freezer		X	42	Fire Extinguisher - "K" Type	X		64	Wall Storage Cabinet	X	
21	Airscreen Reach-In Refrigerator		X	43	2 Compartment Sink	X		65	Point of Use Water Heater	X	
22	Stainless Steel Work Table With Undershelf And Overshelf (30"X150")		X	44	Booster Heater	X					

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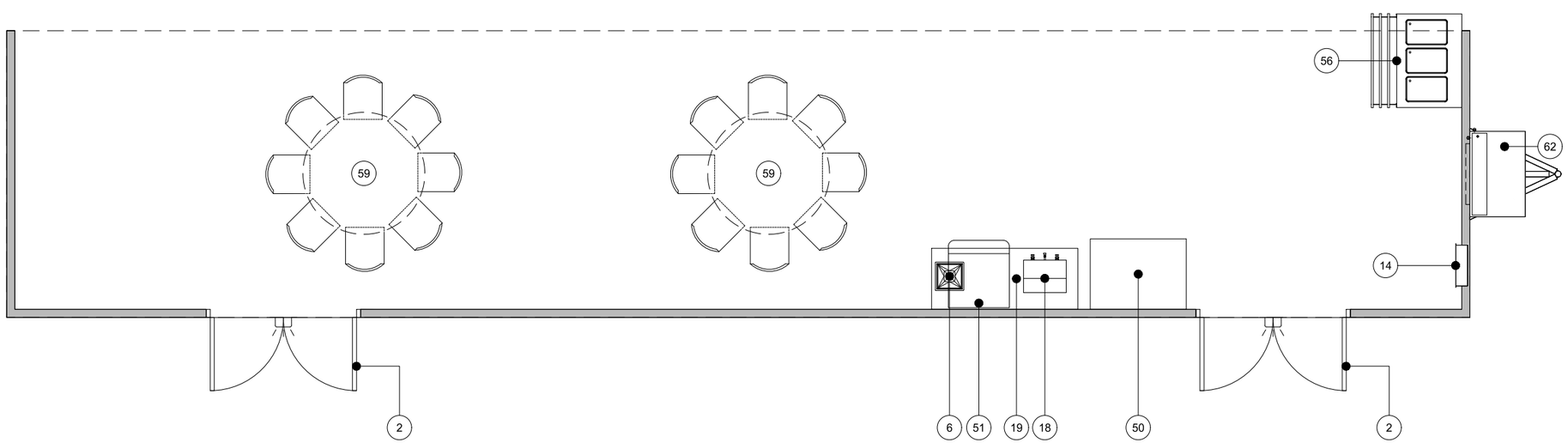

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22x34 SCALE: 3/8"=1'-0"

Interior Floor Plan And Equipment List

Sheet
(M682) I-101

NOTES:

1. CONDUIT FROM ELECTRICAL PANEL TO EQUIPMENT JUNCTION BOX TO BE RUN INSIDE WALLS, CEILING OR UNDER FLOOR WHERE POSSIBLE.
2. ALUMINUM RACEWAY TO BE USED WHEN TRANSITION FROM ELECTRICAL PANEL TO JUNCTION BOX OR JUNCTION BOX TO JUNCTION BOX DOES NOT PERMIT RECESSED CONDUIT.
3. WHEN RECESSED JUNCTION BOX IS NOT POSSIBLE, USE A SURFACE MOUNTED ALUMINUM WATER TIGHT JUNCTION BOX.
4. ALL VERTICAL DIMENSIONS ARE FROM FINISH FLOOR. ALL HORIZONTAL DIMENSIONS ARE FROM INSIDE FINISH WALL.
5. WIRING ABOVE SUSPENDED CEILINGS SHALL BE AC CABLE OR SIMILAR. NM CABLE MAY NOT BE USED ABOVE SUSPENDED CEILINGS.
6. NOT USED.
7. ALL 120 VOLTS, 15 AND 20 AMP RECEPTACLES TO BE GFCI PROTECTED.
8. THE LIGHT INTENSITY SHALL BE AT LEAST 50 FOOT-CANDLES ON ALL FOOD PREPARATION SURFACES AND AT EQUIPMENT OR UTENSIL-WASHING WORK LEVELS.
9. THE LIGHT INTENSITY SHALL BE AT LEAST 20 FOOT-CANDLES AT A DISTANCE OF 30" ABOVE THE FLOOR IN THE FOLLOWING:
   A. UTENSIL AND EQUIPMENT STORAGE AREAS.
   B. SINKS AND TOILET AREAS.
   C. WALK-IN REFRIGERATION UNITS.
   D. DRY FOOD STORAGE AREAS.
   E. ALL OTHER AREAS.

   THIS INCLUDES THE AREAS WHERE FOOD IS PROVIDED FOR CONSUMER SELF-SERVICE, SUCH AS BUFFETS AND SALAD BARS, AND ROOMS DURING PERIODS OF CLEANING.
10. THE LIGHT INTENSITY SHALL BE AT LEAST 20 FOOT-CANDLES INSIDE EQUIPMENT, SUCH AS REACH-IN AND UNDER-COUNTER REFRIGERATORS.
11. EXCEPT AS SPECIFIED IN NOTE 13, LIGHT BULBS SHALL BE SHIELDED, COATED, OR OTHERWISE SHATTER-RESISTANT IN AREAS WHERE THERE IS:
    A. EXPOSED FOOD
    B. CLEAN EQUIPMENT, UTENSILS, AND LINENS; OR
    C. UNWRAPPED SINGLE-SERVICE AND SINGLE-USE ARTICLES.
12. SHIELDED, COATED, OR OTHERWISE SHATTER-RESISTANT BULBS NEED NOT BE USED ONLY FOR STORING FOOD IN UNOPENED PACKAGE IF THE:
    A. INTEGRITY OF THE PACKAGES CANNOT BE AFFECTED BY BROKEN GLASS FALLING ONTO THEM; AND
    B. PACKAGES ARE CAPABLE OF BEING CLEANED OF DEBRIS FROM BROKEN BULBS BEFORE THE PACKAGES ARE OPENED.
13. AN INFRARED OR OTHER HEAT LAMP SHALL BE PROTECTED AGAINST BREAKAGE BY SHIELD SURROUNDING AND EXTENDING BEYOND THE BULB SO THAT ONLY THE FACE OF THE BULB IS EXPOSED.
14. ALL ESSENTIAL ELECTRICAL SYSTEMS AND EMERGENCY SYSTEMS SHALL BE INSTALLED BY OTHERS.
15. NOT USED.
16. UDS CIRCUIT NUMBERS ARE USED AS A GUIDE ONLY TO LOCATE THE CIRCUITS AND TO CALCULATE THE ELECTRICAL LOAD FOR THE TWO UDS SECTIONS.
17. ALL EXIT & EMERGENCY WALL PACK LTS. TO BE CONNECTED TO NEAREST UNSWITCHED LTG. CIRCUIT PER NEC.
18. ALL 15 & 20 AMP RATED RECEPTACLES IN KITCHEN SPACE SHALL BE GFI PROTECTED PER NEC.
19. MOTOR RATED SWITCH DISCONNECT FOR WATER HEATER.
20. PROVIDE SUITABLE DISCONNECT SWITCH FOR AIR CURTAIN IF NOT FACTORY INSTALLED.

ELECTRICAL SYMBOL LEGEND
4' - LED LIGHT FIXTURE
24" X 48" LED (2) TUBE (LAY-IN) W/ PRISMATIC LENS EMERGENCY BATTERY BACKUP
4' - 4 TUBE FLUORESCENT FIXTURE
4' - 3 TUBE FLUORESCENT FIXTURE
SINGLE OUTLET - FLUSH MOUNTED
DUPLEX OUTLET - FLUSH MOUNTED
DUPLEX OUTLET - SURFACE MOUNTED
FOURPLEX OUTLET - FLUSH MOUNTED
FOURPLEX OUTLET - SURFACE MOUNTED
HARDWIRE CONNECTION - FLUSH MOUNTED
HARDWIRE CONNECTION - SURFACE MOUNTED
208V OUTLET - FLUSH MOUNTED
208V OUTLET - SURFACE MOUNTED
EXHAUST FAN
SWITCH - FLUSH MOUNTED
SWITCH - SURFACE MOUNTED
3-WAY SWITCH - FLUSH MOUNTED
3-WAY SWITCH - SURFACE MOUNTED
DENOTES CIRCUIT NUMBER (#8)
EXT. SCENE LIGHT / ENTRY LIGHT
VAPOR PROOF LIGHT/HOOD LIGHT
EMERGENCY EXIT LIGHT

MISSOURI PUBLIC SERVICE COMMISSION

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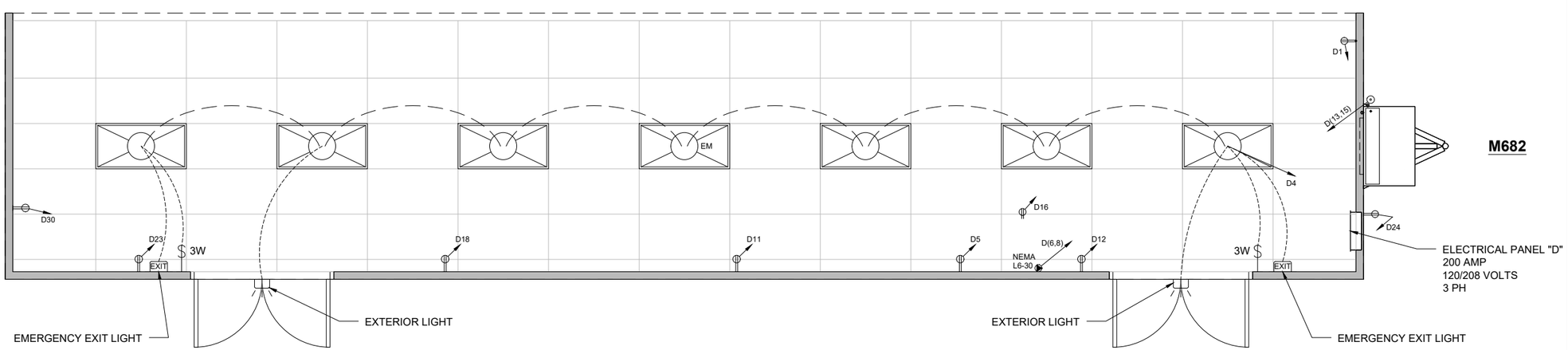

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Lee's Summit, MO 64063

REV.	DATE	DESCRIPTION	NAME

DELTA - REV -

Drawn By: MMS	Approved By: -
QUOTE NUMBER L24-050	UNIT NUMBER M820, M821, M681, M682

11x17 SCALE: 3/16"=1'-0"
22x34 SCALE: 3/8"=1'-0"

Electrical Floor Plan Schematic

Sheet
(M682) E-101

NOTES:

1. STANDARD WEIGHT RIGID METAL CONDUIT SHALL BE HOT DIPPED GALVANIZED, ALL FITTINGS SHALL BE OF THE SCREW THREAD TYPE. COUPLINGS, LOCKNUTS, BUSHINGS, ETC., SHALL BE HOT DIPPED GALVANIZED.
2. ELECTRICAL METALLIC TUBING (EMT) SHALL BE GALVANIZED. COUPLINGS AND CONNECTORS SHALL BE GALVANIZED. FITTINGS SHALL BE COMPRESSION TYPE WITH GLAND SEALING RINGS OR SET SCREW TYPE.
3. FLEXIBLE CONDUIT SHALL BE GALVANIZED STEEL OR ALUMINUM. WHERE USED IN DAMP OR WET LOCATIONS FLEXIBLE CONDUIT SHALL BE OF THE LIQUID-TIGHT TYPE WITH OUTER NEOPRENE JACKET AND SUITABLE LIQUID-TIGHT FITTINGS.
4. WIRE AND CABLE FOR USE ON SYSTEMS OF 50 VOLTS TO 600 VOLTS SHALL BE 600 VOLT RATED TYPE THW OR THHN FOR BRANCH CIRCUITS. FEEDERS SHALL BE THHN (THWN IN WET LOCATIONS).
5. WIRE AND CABLE FOR USE ON SYSTEMS OF BELOW 50 VOLTS SHALL BE 300 VOLT PVC INSULATED AND SUITABLE FOR THE CLASS OF WIRING EXCEPT AS OTHERWISE INDICATED OR SPECIFIED.
6. ALL CONDUCTORS SHALL BE COPPER. MIN. SIZE - 12GA THHN (THWN IN WET LOCATIONS)
7. STANDARD WEIGHT RIGID METAL CONDUIT SHALL BE USED WHERE EXPOSED TO THE WEATHER, PLACED UNDERGROUND BELOW CONCRETE SLAB, IN CONCRETE OR MASONRY CONSTRUCTION IN CONTACT WITH EARTH.
8. GALVANIZED STEEL ELECTRICAL METALLIC TUBING SHALL BE USED IN ABOVE GROUND, INTERIOR, DRY LOCATIONS PROTECTED FROM WEATHER AND PHYSICAL DAMAGE, AND MAY BE USED IN CONCRETE OR MASONRY CONSTRUCTION NOT IN CONTACT WITH EARTH.
9. FLEXIBLE METALLIC CONDUIT SHALL BE USED TO CONNECT CONDUIT SYSTEMS TO MOTORS, DIRECT WIRED AND VIBRATING EQUIPMENT AND AS A FINAL CONNECTION TO LIGHTING FIXTURES (6' MAX) IN ACCESSIBLE CEILINGS. IT MAY BE USED AS A WIRING SYSTEM INSTEAD OF EMT IN INTERIOR WALLS ONLY (DRY FRAME OR STUD CONSTRUCTION).
10. LIQUIDTIGHT FLEXIBLE METAL CONDUIT SHALL BE USED FOR FINAL ELECTRICAL CONNECTIONS TO ROOF TOP OR OTHER EQUIPMENT EXPOSED TO THE ENVIRONMENT.

LEE SUMMIT MEDICAL CENTER

200 AMP — 120/208VOLTS — 4 WIRE — 60HZ — 3PH — **M682 - D**

AWG	COLOR	ITEM	TYPE LOAD	P	AMPS	CIRC.	PHASE A		PHASE B		PHASE C		P	AMPS	CIRC.	TYPE LOAD	ITEM	AWG	COLOR
12	B	RECEPT	R	1	20	1	800	0							2		SPACE		
		SPACE				3			0	800			1	20	4	L	LIGHTS	12	R
12	BL	FOUNTAIN BEVERAGE MACHINE	K	1	20	5					1116	2496	2	30	6	K	COFFEE BREWER	10	BL
		51															18		
		SPACE				7	0	2496					-	30	8	K	"	10	B
		SPACE				9			0	0					10		SPACE		
12	BL	RECEPT	R	1	20	11					1200	1200	1	20	12	K	OPEN AIR MERCHANDISER	12	BL
					GFI												50		
4	B	HVAC 5T/15KW	H	2	90	13	8840	0					1	20	14		SPACE		
4	R	"	H	-	90	15			8840	600			1	20	16	CL	HEAT TAPE	12	R
														GFI					
		SPACE				17					0	1200	1	20	18	R	RECEPT	12	BL
														GFI					
		SPACE				19	0	0							20		SPACE		
		SPACE				21			0	0					22		SPACE		
12	BL	RECEP	R	1	20	23					1200	1200	1	20	24	R	SERVICE RECEPTACLE	12	BL
					GFI									GFI					
		SPACE				25	0	0							26		SPACE		
		SPACE				27			0	0					28		SPACE		
		SPACE				29					0	1200	1	20	30	R	RECEPT	12	BL
														GFI					
							9640	2496	8840	1400	3516	7296							
							12136		10240		10812								

		CONN. VA		DEMAND FACTOR	DEMAND VA
TOTAL KITCHEN LOAD	=	7308	X	0.8	5846.4
TOTAL LIGHTING LOAD	=	800	X	1.25	1000.0
TOTAL NON-CONT. LOAD	=	0	X	1	0.0
TOAL RECEPTACLE LOAD	=	6800	X	1	6800.0
TOTAL CONTINUOS LOAD	=	600	X	1.25	750.0
TOTAL HVAC LOAD	=	17680	X	1	17680.0
LARGEST MOTOR LOAD	=	0	X	1.25	0.0
TOTAL MISC. LOAD	=	0	X	1	0.0
TOTAL VA PANEL "A"	=	33188			32076.4
TOTAL VA	=	33188			32076.4
TOAL AMPS	=	92.1			89.0

LOAD TYPE KEY:

K	=	KITCHEN LOAD
L	=	LIGHTING LOAD
NC	=	NON-CONTINUOS LOAD
R	=	RECEPTACLE LOAD
CL	=	CONTINUOS LOAD
H	=	HVAC LOAD
LM	=	LARGEST MOTOR LOAD
M	=	MISC.

TOTAL= 33188 VA

I = 92.1 AMPS

1

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06/12/2025

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STATE OF MISSOURI — GAYLORD RANSOM NUMBER E-27812 — REGISTERED PROFESSIONAL ENGINEER

HCA MIDWEST HEALTH

FDBY LEE'S SUMMIT MEDICAL CENTER

2100 SE Blue Pkwy
Lee's Summit, MO 64063

REV.	DATE	DESCRIPTION	NAME
1	04-25-25	Per Deviation Report	MMS

DELTA 1 | REV 1

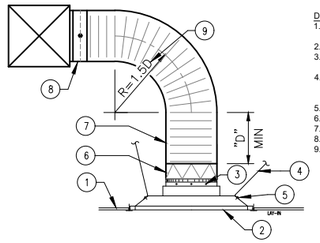
Drawn By: MMS
Approved By: -
QUOTE NUMBER: L24-050
UNIT NUMBER: M820, M821, M681, M682
11x17 SCALE: N/A
22x34 SCALE: N/A

Electrical Panel Schedule(S)

SUBMITTAL SET

Sheet

(M682) E-601



DIFFUSER INSTALLATION NOTES
1. ACOUSTICAL LAY-IN T-BAR CEILING, SEE ARCHITECTURAL DRAWINGS.
2. TYPICAL LAY-IN DIFFUSER.
3. #7 x 1/2" S/M SCREWS, (4" O.C. MIN.) TAPE w/ 2" MASTIC TAPE.
4. SUPPORT DIFFUSER WITH (4) 1-1/2" x 26 GA. GALVANIZED S/M STRAPS, SECURE TO STRUCTURE ABOVE.
5. SHEET METAL SCREW, (TYPICAL).
6. VOLUME DAMPER
7. FLEXIBLE DUCT
8. SPIN-IN FITTING W/ BUTTERFLY DAMPER
9. "D" IS THE THROAT DIAMETER

1 TYP. DIFFUSER INSTALLATION
LAY-IN T-BAR MOUNTING
NTS

NOTES:
1. THERMOSTAT TO BE LOCATED 48" A.F.F.
2. LOW PRESSURE DUCTWORK SHALL BE CONSTRUCTED OF ZINC COATED SHEET STEEL OR DUCT BOARD.
3. ZINC COATED SHEET STEEL SHALL CONFORM TO THE LATEST VERSION OF SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
4. DUCT BOARD SHALL CONFORM TO THE LATEST VERSION OF SMACNA FIBROUS GLASS DUCT CONSTRUCTION STANDARDS OR NAIMA FIBROUS GLASS DUCT CONSTRUCTION STANDARDS.
5. FLEXIBLE AIR DUCT FOR CONNECTIONS BETWEEN LOW PRESSURE DUCT TO DIFFUSERS SHALL BE EQUAL TO THERMAFLEX G-KM. DUCT SHALL BE LISTED BY UNDERWRITER'S LABORATORIES UNDER UL 181 STANDARDS AS CLASS 1 FLEXIBLE AIR DUCT MATERIAL AND SHALL COMPLY WITH NFPA STANDARDS 90A AND 90B. DUCT SHALL BE RATED TO OPERATE AT PRESSURES UP TO 6" W.G. (1500 PA) FOR SIZES 16" AND SMALLER. MAXIMUM LENGTH OF FLEXIBLE AIR DUCT SHALL BE 7 FEET.
6. KEEP ALL OUTSIDE AIR INTAKES 10' FROM EXHAUST AIR VENTS PER CODE.
7. INSULATE DUCT ABOVE CEILING WITH R-6 DUCT WRAP. MASTIC AND SEAL ALL JOINTS.
8. THE DUCTWORK AND EQUIPMENT ARE SHOWN DIAGRAMMATIC. FIELD VERIFY DIMENSIONS PRIOR TO FABRICATION AND INSTALLATION.
9. AIR FLOW SHALL BE BALANCED TO OBTAIN QUANTITIES SHOWN ON FLOOR PLANS. CAREFULLY ADJUST DAMPERS FOR ALL DUCTWORK AND AIR OUTLETS AND RECORD READINGS WHICH CORRESPOND TO THE DESIGN FLOW RATES AT EACH OUTLET. TEST AND BALANCE THE COMPLETE AIRSIDE SYSTEM IN ACCORDANCE WITH "SMACNA T.A.B." PROCEDURES.
10. MODULES MAY HAVE EXISTING DUCTWORK INSTALLED. IF DUCTWORK DIMENSIONS ARE THE SAME OR LARGER AS DUCTWORK SHOWN EXISTING DUCTWORK SHALL BE REUSED AND REMAIN IN PLACE.
11. AC UNIT OUTSIDE AIR DAMPER TO BE POSITIONED TO PROVIDE THE FLOWRATE SHOWN BELOW.

MARK	DESCRIPTION
A	T-BAR DIRECTIONAL VOLUME DIFFUSERS. FULL SIZE SQUARE 2'x2' DIRECTIONAL T-BAR DIFFUSER, ROUND COLLAR, SEISMIC SUPPORT HANGERS, SHOEMAKER 105PD SERIES PERFORATED T-BAR DIFFUSERS.

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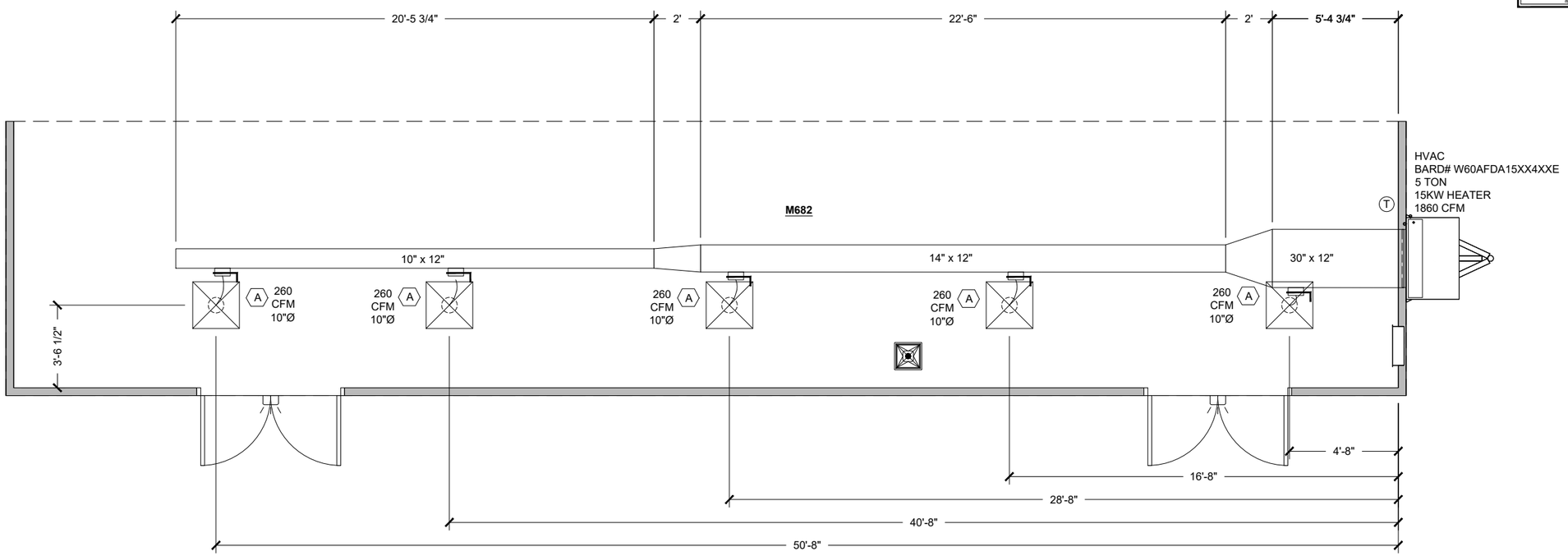

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GAYLORD RANSOM NUMBER E-27812
REGISTERED PROFESSIONAL ENGINEER

MCGRATH RENTCORP.
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DBA MOBILE MANAGEMENT CORP.
9876 WEST OLD US 30
ETNA GREEN, IN 46524

HCA MIDWEST HEALTH

FDBY LEE'S SUMMIT MEDICAL CENTER

2100 SE Blue Pkwy
Lee's Summit, MO 64063

REV.	DATE	DESCRIPTION	NAME

DELTA - REV -

Drawn By: MMS	Approved By: -
QUOTE NUMBER L24-050	UNIT NUMBER M820, M821, M681, M682

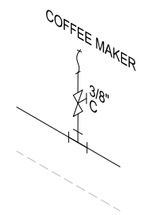
11x17 SCALE: 3/16"=1'-0"
22x34 SCALE: 3/8"=1'-0"

HVAC Ducting Plan

Sheet
(M682) M-101

NOTES :

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT CODES AND REGULATIONS.
2. USE PEX (WHEN NOT VISUALLY EXPOSED TO INTERIOR OR EXTERIOR) OR COPPER PIPE TYPE K OR L WHEN EXPOSED TO PLUMB WATER LINES UNLESS OTHERWISE SPECIFIED.
3. ALL LINES SHALL BE ADEQUATELY SUPPORTED WITH GALV. STL. 2 HOLE STRAPS AT 3' O.C. MAX.
4. ALWAYS USE ROUND RUBBER GROMMETS WHENEVER PLUMBING LINES RUN THRU METAL PLATES, SKIN, CURB, ETC.
5. PRESSURE TEST WATER LINES (90-100 PSI) FOR LEAKS PRIOR TO EQUIPMENT FINAL CONNECTIONS.
6. FOR STORAGE: DRAIN WATER LINES.
7. EXPOSED SURFACE LINES SHALL NOT BE RUN UNLESS APPROVED BY CARLIN MANUFACTURING
8. FOR MOP SINK USE 8" ADJ. SERVICE SINK FAUCET WITH SHORT SPOUT AND VACUUM BREAKER.
9. WRAP ALL HOT WATER LINES WITH PIPE INSULATION.
10. PIPES TO BE RUN HORIZONTALLY UNDER THE FLOOR AS CLOSE AS POSSIBLE TO BOTTOM OF THE FLOOR EXCEPT WHERE NOTED.
11. PRESSURE AVAILABLE ON SITE TO BE MAXIMUM 55PSI - MINIMUM 40PSI.
12. FOR COLD CLIMATE LOCATION ;
    12.1. IF UNIT IS IN USE MAKE SURE THAT THE HEAT TAPE IS ALWAYS "ON"
    12.2. IF THE UNIT IS NOT IN USE OR IN STORAGE, DRAIN ALL WATER AND WASTE LINES TO AVOID DAMAGE TO PIPES DUE TO EXPOSURE TO FREEZING TEMPERATURES.
13. WHEN METAL FITTINGS (PEX) ARE EXPOSED TO METAL WALL STRUCTURAL, NEED TO ADD A THERMAL BREAK.
14. WRAP ALL HOT & COLD PIPING THAT RUNS UNDER THE FLOOR WITH PIPE INSULATION.
15. WATER HEATER TEMPERATURE CAN BE ADJUSTED FROM 120°F TO 140°F.
16. WATER FILTRATION FOR COFFEE BREWER AND FOUNTAIN BEVERAGE MACHINE PROVIDED BY CLIENT.



TYPICAL FRESH WATER CONNECTION DETAIL

SYM	DESCRIPTION
H	HOT WATER LINE
C	COLD WATER LINE
	PRESSURE REGULATOR
	VALVE, BRASS BALL
	TEE
	90° ELBOW
	FLEX HOSE ASSEMBLY (S.S. BRAIDED MPT x FPT SWIVEL)
	QUICK DISCONNECT
	VALVE 3-WAY
	PUMP
	VACUUM BREAKER
	REDUCER
	CHECK VALVE
	POINT OF CONNECTION
	WATER FILTRATION SYSTEM
	PENETRATION
	HOSE BIBB
	CAP
	BOILER DRAIN VALVE
	PRESSURE RELIEF VALVE
	UNION

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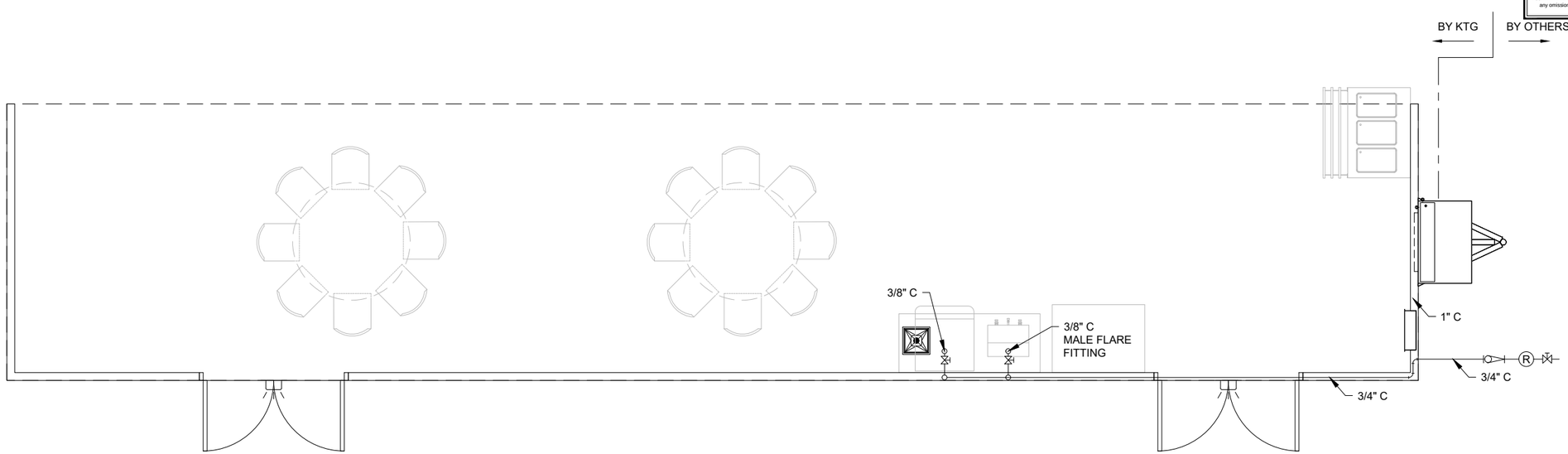

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REV.	DATE	DESCRIPTION	NAME

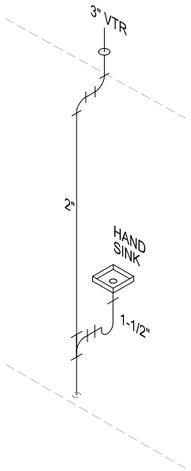
DELTA - REV -

Drawn By: MMS	Approved By: -
QUOTE NUMBER L24-050	UNIT NUMBER M820, M821, M681, M682

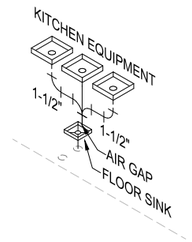
11x17 SCALE: 3/16"=1'-0"
22x34 SCALE: 3/8"=1'-0"

Fresh Water Plumbing Schematic

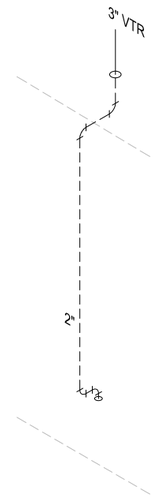
Sheet
(M682) P-601



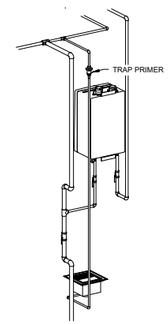
TYPICAL HAND SINK WASTE WATER DETAIL



TYPICAL WASTE WATER CONNECTION DETAIL



TYPICAL VTR WASTE WATER DETAIL



TYPICAL TRAP PRIMER DETAIL

NOTES:

1. ALL LINES SHALL BE ADEQUATELY SUPPORTED WITH GALV. STL 2 HOLE STRAPS AT 3' O.C. MAX.
2. TERMINATION VENT SHALL BE MINIMUM 2 INCHES IN DIAMETER. ANY INCREASE IN THE SIZE OF THE VENT SHALL BE MADE INSIDE THE STRUCTURE A MINIMUM OF 18 INCHES BELOW THE ROOF.
3. ALL PLUMBING LINES SHALL BE OF SCHEDULE 40 PVC DWV OR SCHEDULE 40 ABS DWV UNLESS OTHERWISE SPECIFIED.
4. SEWER LINES FROM FLOOR SINKS SHALL ALL BE SCHEDULE 40 PVC DWV OR SCHEDULE 40 ABS DWV UNLESS OTHERWISE SPECIFIED.
5. FLOOR SINKS SHALL BE MOUNTED WITH EPOXY FLOOR RUN OVER THE EDGE AND DOWN TO THE BOTTOM OF THE VERTICALEDGE OF THE FLOOR SINK.
6. EXPOSED SURFACE LINES SHALL NOT BE RUN UNLESS APPROVED BY CARLIN MANUFACTURING.
7. PIPES TO BE RUN HORIZONTALLY UNDER THE FLOOR AS CLOSE AS POSSIBLE TO BOTTOM OF THE FLOOR EXCEPT WHERE NOTED.
8. WALK-IN COOLER CONDENSATE LINE TO DRAIN TO A APPROVED DRAIN LINE.
9. ALL VENTS SHALL TERMINATE 18" MIN. ABOVE ROOF FINISH LINE UNLESS OTHERWISE SPECIFIED.
10. HVAC CONDENSATION LINES SHALL DRAIN BY MEANS OF AN INDIRECT WASTE PIPE. THE WASTE PIPE SHALL HAVE A SLOPE NOT LESS THAN 1/8 INCH PER FOOT.
11. CLEAN OUTS ARE TO BE READILY ACCESSIBLE ABOVE GRADE (TYP)
12. FOR STORAGE, BLOW OUT WITH COMPRESSED AIR ALL WATER LINES.
13. ADD MIXING VALVE TO DISHWASHER AND CONVECTION STEAMER TO REDUCE TEMPERATURE OF WATER COMING OUT OF THE DRAIN PIPE.
14. ALL PLUMBING CONNECTIONS UNDER THE FLOOR TO BE DONE BY G.C. CONNECTIONS UNDER THE FLOOR SHOWN AS A SUGGESTED LAYOUT ONLY.

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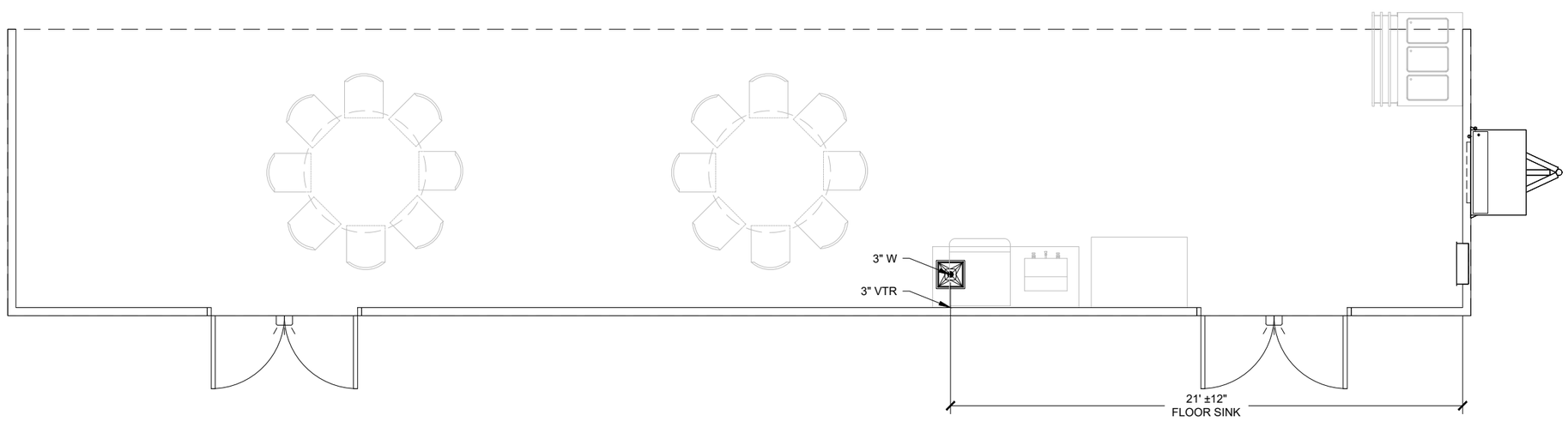

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11x17 SCALE: 3/16"=1'-0"
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Waste Water Plumbing Schematic

Sheet
(M682) P-602

LEE'S SUMMIT MEDICAL CENTER WASH UNIT - M820

DRAWING INDEX

SHEET NO.	SHEET CREATED	DESCRIPTION	REV. NUMBER	REV. DATE	REV. NOTE
(M820) G-001		Cover Sheet & Drawing Index			
(M820) I-101		Interior Floor Plan and Equipment List			
(M820) E-101		Electrical Floor Plan Schematic			
(M820) E-601		Electrical Panel Schedule(S)			
(M820) M-101		HVAC Ducting Plan			
(M820) P-601		Fresh Water Plumbing Schematic			
(M820) P-602		Waste Water Plumbing Schematic			
(M820) P-603		Gas Plumbing Schematic			

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11x17 SCALE: N/A
22x34 SCALE: N/A

Cover Sheet & Drawing Index

Sheet
(M820) G-001

EQUIPMENT SCHEDULE:

CS = CLIENT SUPPLIED EQUIPMENT

ITEM NO.	DESCRIPTION	KTG	CS	ITEM NO.	DESCRIPTION	KTG	CS	ITEM NO.	DESCRIPTION	KTG	CS
1	36" Interior Door	X		23	Toaster		X	45	Water Heater	X	
2	72" Entry Door	X		24	Ticket Printer		X	46	Mop Sink	X	
3	36" Air Curtain	X		25	Induction Heat Activator		X	47	8' x 20' Walk-In Cooler	X	
4	Flight Type Dish Machine	X		26	Microwave		X	48	8' x 20' Walk-In Freezer	X	
5	Trench Drain	X		27	3 Well Hot Food Table	X		49	8' x 40' Walk-In Dry Storage	X	
6	Floor Sink	X		28	Heated Plate Dispenser	X		50	Open Air Merchandiser	X	
7	Hose Bib With 10' Hose And Nozzle Sprayer	X		29	Fire Extinguisher - "ABC" Type	X		51	Fountain Beverage Machine		X
8	Storage Rack - 48" x 24"		X	30	Hot Holding Cabinet	X		52	Cash Register		X
9	1 Compartment Sink	X		31	Work Top Refrigerator	X		53	Modular Cashier Unit	X	
10	Not Used			32	Dual Stack Convection Steamer	X		54	Hot Food Serving Counter - 3 Well	X	
11	Garbage Disposal	X		33	Fryer	X		55	Hot Food Serving Counter - 2 Well	X	
12	3 Compartment Sink	X		34	Reach-In Freezer	X		56	Cold Food Serving Counter - 3 Well	X	
13	Ice Machine W/ Bin	X		35	36" Griddle W/ Stand	X		57	Cold Food Serving Counter - 2 Well	X	
14	Electrical Panel	X		36	48" Tilt Skillet	X		58	Double Door Beverage Cooler		X
15	Reach-In Refrigerator	X		37	36" 6-Burner Countertop Range W/ Stand	X		59	Dining Table and Chairs		X
16	Hand Sink W/ Eye Wash Station	X		38	Dual Stack Convection Oven	X		60	Not Used		
17	Food Delivery Cart		X	39	Stainless Steel Exhaust Hood - Type 1 (Grease)	X		61	Not Used		
18	Coffee Brewer		X	40	Fire Suppression System	X		62	HVAC Unit	X	
19	Stainless Steel Work Table With Undershelf (30"X72")	X		41	Stainless Steel Work Table With Undershelf (30"X60")	X		63	Floor Sink, Covered & Sealed	X	
20	Countertop Freezer		X	42	Fire Extinguisher - "K" Type	X		64	Wall Storage Cabinet	X	
21	Airscreen Reach-In Refrigerator		X	43	2 Compartment Sink	X		65	Point of Use Water Heater	X	
22	Stainless Steel Work Table With Undershelf And Overshelf (30"X150")		X	44	Booster Heater	X					

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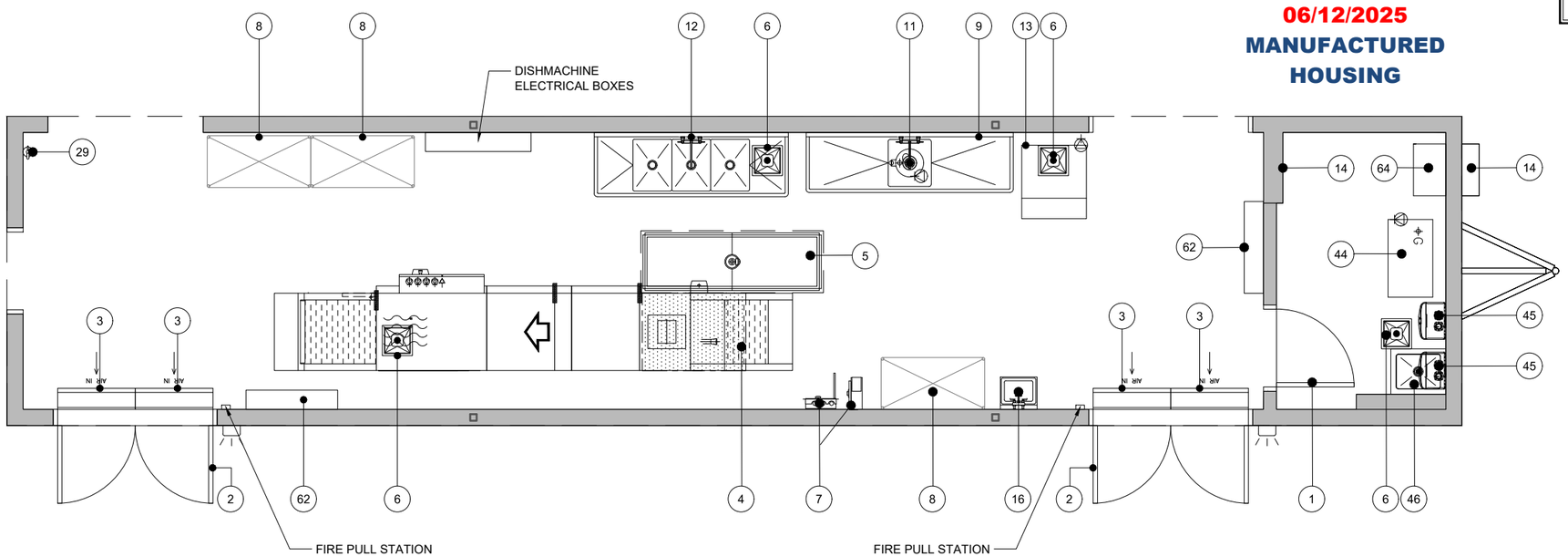

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STATE OF MISSOURI
GAYLORD RANSOM
NUMBER E-27812
PROFESSIONAL ENGINEER

MCGRATH RENTCORP.
DBA KITCHENS TO GO
BY MOBILE MODULAR
DBA MOBILE MANAGEMENT CORP.
9876 WEST OLD US 30
ETNA GREEN, IN 46524

HCA MIDWEST HEALTH

FDBY LEE'S SUMMIT MEDICAL CENTER

2100 SE Blue Pkwy
Lee's Summit, MO 64063

REV.	DATE	DESCRIPTION	NAME

DELTA - REV -

Drawn By: MMS
Approved By: -
QUOTE NUMBER L24-050
UNIT NUMBER M820, M821, M681, M682
11x17 SCALE: 3/16"=1'-0"
22x34 SCALE: 3/8"=1'-0"

Interior Floor Plan And Equipment List

Sheet
(M820) I-101

NOTES:

1. CONDUIT FROM ELECTRICAL PANEL TO EQUIPMENT JUNCTION BOX TO BE RUN INSIDE WALLS, CEILING OR UNDER FLOOR WHERE POSSIBLE.
2. ALUMINUM RACEWAY TO BE USED WHEN TRANSITION FROM ELECTRICAL PANEL TO JUNCTION BOX OR JUNCTION BOX TO JUNCTION BOX DOES NOT PERMIT RECESSED CONDUIT.
3. WHEN RECESSED JUNCTION BOX IS NOT POSSIBLE, USE A SURFACE MOUNTED ALUMINUM WATER TIGHT JUNCTION BOX.
4. ALL VERTICAL DIMENSIONS ARE FROM FINISH FLOOR. ALL HORIZONTAL DIMENSIONS ARE FROM INSIDE FINISH WALL.
5. WIRING ABOVE SUSPENDED CEILINGS SHALL BE AC CABLE OR SIMILAR. NM CABLE MAY NOT BE USED ABOVE SUSPENDED CEILINGS.
6. NOT USED.
7. ALL 120 VOLTS, 15 AND 20 AMP RECEPTACLES TO BE GFCI PROTECTED.
8. THE LIGHT INTENSITY SHALL BE AT LEAST 50 FOOT-CANDLES ON ALL FOOD PREPARATION SURFACES AND AT EQUIPMENT OR UTENSIL-WASHING WORK LEVELS.
9. THE LIGHT INTENSITY SHALL BE AT LEAST 20 FOOT-CANDLES AT A DISTANCE OF 30" ABOVE THE FLOOR IN THE FOLLOWING:
   A. UTENSIL AND EQUIPMENT STORAGE AREAS.
   B. SINKS AND TOILET AREAS.
   C. WALK-IN REFRIGERATION UNITS.
   D. DRY FOOD STORAGE AREAS.
   E. ALL OTHER AREAS.

   THIS INCLUDES THE AREAS WHERE FOOD IS PROVIDED FOR CONSUMER SELF-SERVICE, SUCH AS BUFFETS AND SALAD BARS, AND ROOMS DURING PERIODS OF CLEANING.
10. THE LIGHT INTENSITY SHALL BE AT LEAST 20 FOOT-CANDLES INSIDE EQUIPMENT, SUCH AS REACH-IN AND UNDER-COUNTER REFRIGERATORS.
11. EXCEPT AS SPECIFIED IN NOTE 13, LIGHT BULBS SHALL BE SHIELDED, COATED, OR OTHERWISE SHATTER-RESISTANT IN AREAS WHERE THERE IS:
    A. EXPOSED FOOD
    B. CLEAN EQUIPMENT, UTENSILS, AND LINENS; OR
    C. UNWRAPPED SINGLE-SERVICE AND SINGLE-USE ARTICLES.
12. SHIELDED, COATED, OR OTHERWISE SHATTER-RESISTANT BULBS NEED NOT BE USED ONLY FOR STORING FOOD IN UNOPENED PACKAGE IF THE:
    A. INTEGRITY OF THE PACKAGES CANNOT BE AFFECTED BY BROKEN GLASS FALLING ONTO THEM; AND
    B. PACKAGES ARE CAPABLE OF BEING CLEANED OF DEBRIS FROM BROKEN BULBS BEFORE THE PACKAGES ARE OPENED.
13. AN INFRARED OR OTHER HEAT LAMP SHALL BE PROTECTED AGAINST BREAKAGE BY SHIELD SURROUNDING AND EXTENDING BEYOND THE BULB SO THAT ONLY THE FACE OF THE BULB IS EXPOSED.
14. ALL ESSENTIAL ELECTRICAL SYSTEMS AND EMERGENCY SYSTEMS SHALL BE INSTALLED BY OTHERS.
15. ALL EXIT & EMERGENCY WALL PACK LTS. TO BE CONNECTED TO NEAREST UNSWITCHED LTG. CIRCUIT PER NEC.
16. ALL 15 & 20 AMP RATED RECEPTACLES IN KITCHEN SPACE SHALL BE GFI PROTECTED PER NEC.
17. MOTOR RATED SWITCH DISCONNECT FOR WATER HEATER.
18. PROVIDE SUITABLE DISCONNECT SWITCH FOR AIR CURTAIN IF NOT FACTORY INSTALLED.

ELECTRICAL SYMBOL LEGEND
4' - LED LIGHT FIXTURE
24" X 48" LED (2) TUBE (LAY-IN) W/ PRISMATIC LENS EMERGENCY BATTERY BACKUP
4' - 4 TUBE FLUORESCENT FIXTURE
4' - 3 TUBE FLUORESCENT FIXTURE
SINGLE OUTLET - FLUSH MOUNTED
DUPLEX OUTLET - FLUSH MOUNTED
DUPLEX OUTLET - SURFACE MOUNTED
FOURPLEX OUTLET - FLUSH MOUNTED
FOURPLEX OUTLET - SURFACE MOUNTED
HARDWIRE CONNECTION - FLUSH MOUNTED
HARDWIRE CONNECTION - SURFACE MOUNTED
208V OUTLET - FLUSH MOUNTED
208V OUTLET - SURFACE MOUNTED
EXHAUST FAN
SWITCH - FLUSH MOUNTED
SWITCH - SURFACE MOUNTED
3-WAY SWITCH - FLUSH MOUNTED
3-WAY SWITCH - SURFACE MOUNTED
DENOTES CIRCUIT NUMBER (#8)
EXT. SCENE LIGHT / ENTRY LIGHT
VAPOR PROOF LIGHT/HOOD LIGHT
EMERGENCY EXIT LIGHT

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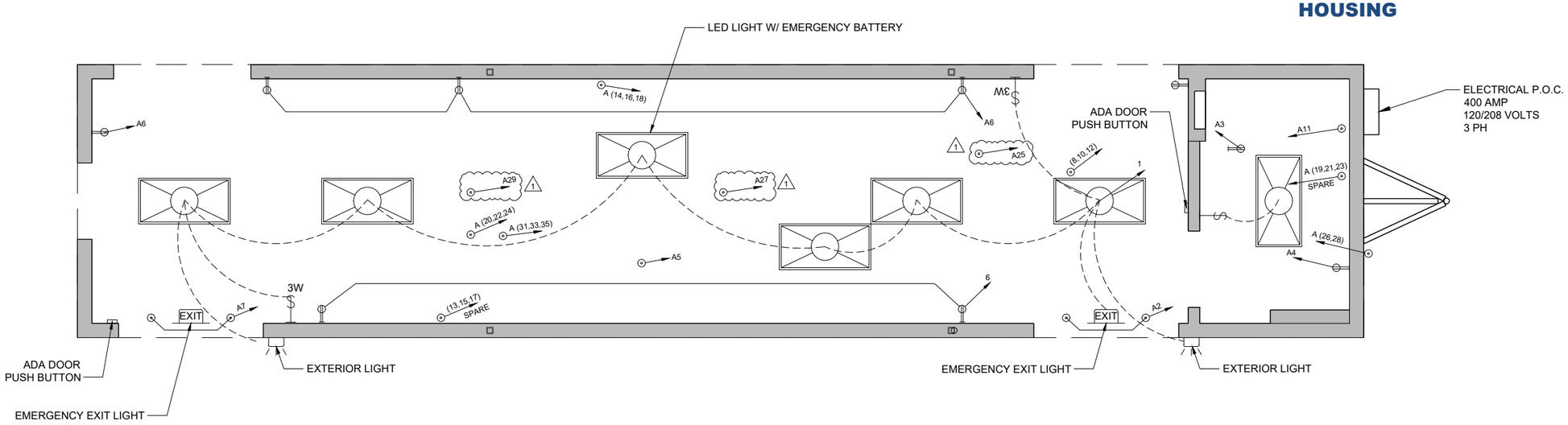

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REGISTERED PROFESSIONAL ENGINEER

HCA MIDWEST HEALTH

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Lee's Summit, MO 64063

REV.	DATE	DESCRIPTION	NAME
1	04-25-25	Per Deviation Report	MMS

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Approved By: -
QUOTE NUMBER: L24-050
UNIT NUMBER: M820, M821, M681, M682
11x17 SCALE: 3/16"=1'-0"
22x34 SCALE: 3/8"=1'-0"

SUBMITTAL SET

Electrical Floor Plan Schematic

Sheet
(M820) E-101

NOTES:

1. STANDARD WEIGHT RIGID METAL CONDUIT SHALL BE HOT DIPPED GALVANIZED, ALL FITTINGS SHALL BE OF THE SCREW THREAD TYPE. COUPLINGS, LOCKNUTS, BUSHINGS, ETC., SHALL BE HOT DIPPED GALVANIZED.
2. ELECTRICAL METALLIC TUBING (EMT) SHALL BE GALVANIZED. COUPLINGS AND CONNECTORS SHALL BE GALVANIZED. FITTINGS SHALL BE COMPRESSION TYPE WITH GLAND SEALING RINGS OR SET SCREW TYPE.
3. FLEXIBLE CONDUIT SHALL BE GALVANIZED STEEL OR ALUMINUM. WHERE USED IN DAMP OR WET LOCATIONS FLEXIBLE CONDUIT SHALL BE OF THE LIQUID-TIGHT TYPE WITH OUTER NEOPRENE JACKET AND SUITABLE LIQUID-TIGHT FITTINGS.
4. WIRE AND CABLE FOR USE ON SYSTEMS OF 50 VOLTS TO 600 VOLTS SHALL BE 600 VOLT RATED TYPE THW OR THHN FOR BRANCH CIRCUITS. FEEDERS SHALL BE THHN (THWN IN WET LOCATIONS).
5. WIRE AND CABLE FOR USE ON SYSTEMS OF BELOW 50 VOLTS SHALL BE 300 VOLT PVC INSULATED AND SUITABLE FOR THE CLASS OF WIRING EXCEPT AS OTHERWISE INDICATED OR SPECIFIED.
6. ALL CONDUCTORS SHALL BE COPPER. MIN. SIZE - 12GA THHN (THWN IN DAMP LOCATIONS).
7. STANDARD WEIGHT RIGID METAL CONDUIT SHALL BE USED WHERE EXPOSED TO THE WEATHER, PLACED UNDERGROUND BELOW CONCRETE SLAB, IN CONCRETE OR MASONRY CONSTRUCTION IN CONTACT WITH EARTH.
8. GALVANIZED STEEL ELECTRICAL METALLIC TUBING SHALL BE USED IN ABOVE GROUND, INTERIOR, DRY LOCATIONS PROTECTED FROM WEATHER AND PHYSICAL DAMAGE, AND MAY BE USED IN CONCRETE OR MASONRY CONSTRUCTION NOT IN CONTACT WITH EARTH.
9. FLEXIBLE METALLIC CONDUIT SHALL BE USED TO CONNECT CONDUIT SYSTEMS TO MOTORS, DIRECT WIRED AND VIBRATING EQUIPMENT AND AS A FINAL CONNECTION TO LIGHTING FIXTURES (6' MAX) IN ACCESSIBLE CEILINGS. IT MAY BE USED AS A WIRING SYSTEM INSTEAD OF EMT IN INTERIOR WALLS ONLY (DRY FRAME OR STUD CONSTRUCTION).
10. LIQUIDTIGHT FLEXIBLE METAL CONDUIT SHALL BE USED FOR FINAL ELECTRICAL CONNECTIONS TO ROOF TOP OR OTHER EQUIPMENT EXPOSED TO THE ENVIRONMENT.

LEE SUMMIT MEDICAL CENTER

400 AMP — 120/208VOLTS — 4 WIRE — 60HZ — 3PH — **M820 - A**

AWG	COLOR	ITEM	TYPE LOAD	P	AMPS	CIRC.	PHASE A		PHASE B		PHASE C		P	AMPS	CIRC.	TYPE LOAD	ITEM	AWG	COLOR
12	B	EXIT/EMERGENCY LT.	L	1	20	1	672	1200					1	20	2	R	AIR CURTAIN, RECEPT	12	B
		INTERIOR & EXT. LTS												GFI					
12	R	HEAT TAPE RECEPT	CL	1	20	3			600	200			1	20	4	K	INST. WTR. HTR. GAS	12	R
12	BL	EXH. FAN RTU	H	1	20	5					456	1200	1	20	6	R	RECEPTS	12	BL
														GFI					
12	B	AIR CURTAIN	K	1	20	7	576	5163					3	50	8	H	RTU 7.5 TON, GAS	8	B
12	R	SPARE	K	1	20	9			600	5163			-	50	10	H	"	8	R
12	BL	H.W. BOOSTER HEATER	K	1	20	11					360	5163	-	50	12	H	"	8	BL
8	B	SPARE	K	3	45	13	0	839					2	20	14	K	GARBAGE DISPOSER	12	B
8	R	"	K	-	45	15			0	839			-	20	16	K	"	12	R
8	BL	"	K	-	45	17					0	839	1	20	18	K	"	12	BL
10	B	BOOSTER HEATER 9KW - SPARE	K	3	30	19	0	5000					3	60	20	K	DISH MACHINE HEATER 15KW	6	B
10	R	"	K	-	30	21			0	5000			-	60	22	K	"	6	R
10	BL	"	K	-	30	23					0	5000	-	60	24	K	"	6	BL
12	B	HEAT TAPE	NC	2	25	25	600	2080					2	30	26	K	MINI SPLIT UNIT, 2 TON	10	B
12	R	HEAT TAPE	NC	-	25	27			600	2080			-	30	28	K	"	10	R
12	BL	HEAT TAPE	NC	1	20	29					600	0			30		SPACE		
4/O		DISH MACHINE	K	3	250	31	22213												
4/O		"	K	-	250	33			22213										
4/O		"	K	-	250	35					22213								
							24061	14282	24013	13282	23629	12202							
							38343		37295		35831								

		CONN. VA		DEMAND FACTOR	DEMAND VA
TOTAL KITCHEN LOAD	=	85692	X	0.8	68553.6
TOTAL LIGHTING LOAD	=	672	X	1.25	840.0
TOTAL NON-CONT. LOAD	=	0	X	1	0.0
TOAL RECEPTACLE LOAD	=	2400	X	1	2400.0
TOTAL CONTINUOS LOAD	=	600	X	1.25	750.0
TOTAL HVAC LOAD	=	15489	X	1	15489.0
LARGEST MOTOR LOAD	=	0	X	1.25	0.0
TOTAL MISC. LOAD	=	10456	X	1	10456.0
TOTAL VA PANEL "A"	=	115309			98488.6
TOTAL VA	=	115309			98488.6
TOAL AMPS	=	320.1			273.4

TOTAL= 111469 VA

I = 309.4 AMPS

LOAD TYPE KEY:

K	=	KITCHEN LOAD
L	=	LIGHTING LOAD
NC	=	NON-CONTINUOS LOAD
R	=	RECEPTACLE LOAD
CL	=	CONTINUOS LOAD
H	=	HVAC LOAD
LM	=	LARGEST MOTOR LOAD
M	=	MISC.

1

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STATE OF MISSOURI — GAYLORD RANSOM NUMBER E-27812 — REGISTERED PROFESSIONAL ENGINEER

HCA MIDWEST HEALTH

FDBY LEE'S SUMMIT MEDICAL CENTER

2100 SE Blue Pkwy
Lee's Summit, MO 64063

REV.	DATE	DESCRIPTION	NAME
1	04-25-25	Per Deviation Report	MMS

DELTA 1 | REV 1

Drawn By: MMS
Approved By: -
QUOTE NUMBER: L24-050
UNIT NUMBER: M820, M821, M681, M682
11x17 SCALE: N/A
22x34 SCALE: N/A

Electrical Panel Schedule(S)

Sheet
(M820) E-601

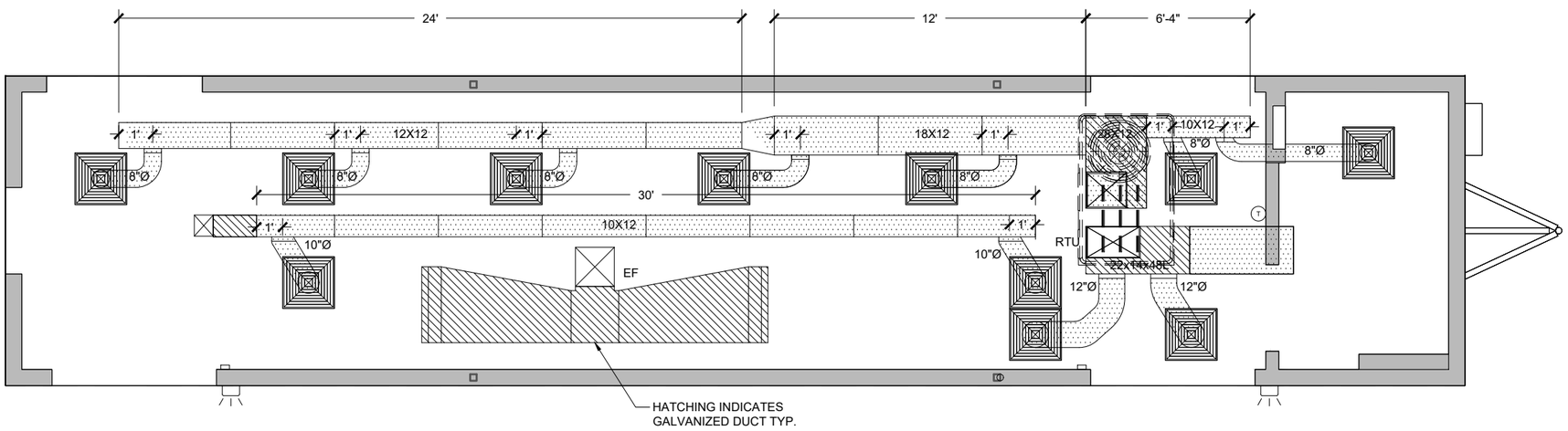
NOTES:

1. ALL DUCT WORK TO BE 13/16" FIBERGLASS INSULATED DUCT BOARD UNLESS NOTED OTHERWISE.

LEGEND:

MUA - MAKE UP AIR UNIT (HVAC)
EF - EXHAUST FAN
RTU- ROOF TO UNIT (HVAC)

(T) THERMOSTAT



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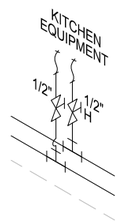
HVAC Ducting Plan

Sheet
(M820) M-101

NOTES:

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT CODES AND REGULATIONS .
2. USE (WHEN NOT VISUALLY EXPOSED TO INTERIOR OR EXTERIOR) COPPER PIPE TYPE K OR L WHEN EXPOSED TO PLUMB WATER LINES UNLESS OTHERWISE SPECIFIED.
3. ALL LINES SHALL BE ADEQUATELY SUPPORTED WITH GALV. STL. 2 HOLE STRAPS AT 3' O.C. MAX.
4. ALWAYS USE ROUND RUBBER GROMMETS WHENEVER PLUMBING LINES RUN THRU METAL PLATES, SKIN, CURB, ETC.
5. PRESSURE TEST WATER LINES (90-100 PSI) FOR LEAKS PRIOR TO EQUIPMENT FINAL CONNECTIONS.
6. FOR STORAGE: DRAIN WATER LINES.
7. EXPOSED SURFACE LINES SHALL NOT BE RUN UNLESS APPROVED BY CARLIN MANUFACTURING
8. FOR MOP SINK USE 8" ADJ. SERVICE SINK FAUCET WITH SHORT SPOUT AND VACUUM BREAKER.
9. WRAP ALL HOT WATER LINES WITH PIPE INSULATION.
10. PIPES TO BE RUN HORIZONTALLY UNDER THE FLOOR AS CLOSE AS POSSIBLE TO BOTTOM OF THE FLOOR EXCEPT WHERE NOTED.
11. PRESSURE AVAILABLE ON SITE TO BE MAXIMUM 55PSI - MINIMUM 40PSI.
12. FOR COLD CLIMATE LOCATION;
    1) IF UNIT IS IN USE MAKE SURE THAT THE HEAT TAPE IS ALWAYS "ON".
    2) IF THE UNIT IS NOT IN USE OR IN STORAGE, DRAIN ALL WATER AND WASTE LINES TO AVOID DAMAGE TO PIPES DUE WHEN METAL FITTINGS ARE EXPOSED TO METAL WALL STRUCTURAL, NEED TO ADD A THERMAL BREAK.
13. WRAP ALL HOT & COLD PIPING THAT RUNS UNDER THE FLOOR WITH PIPE INSULATION.



TYPICAL FRESH WATER CONNECTION DETAIL

MISSOURI PUBLIC SERVICE COMMISSION

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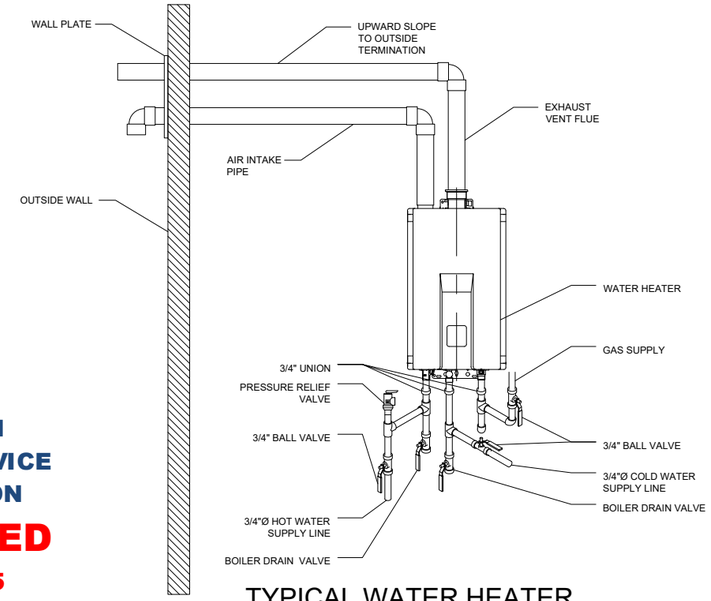
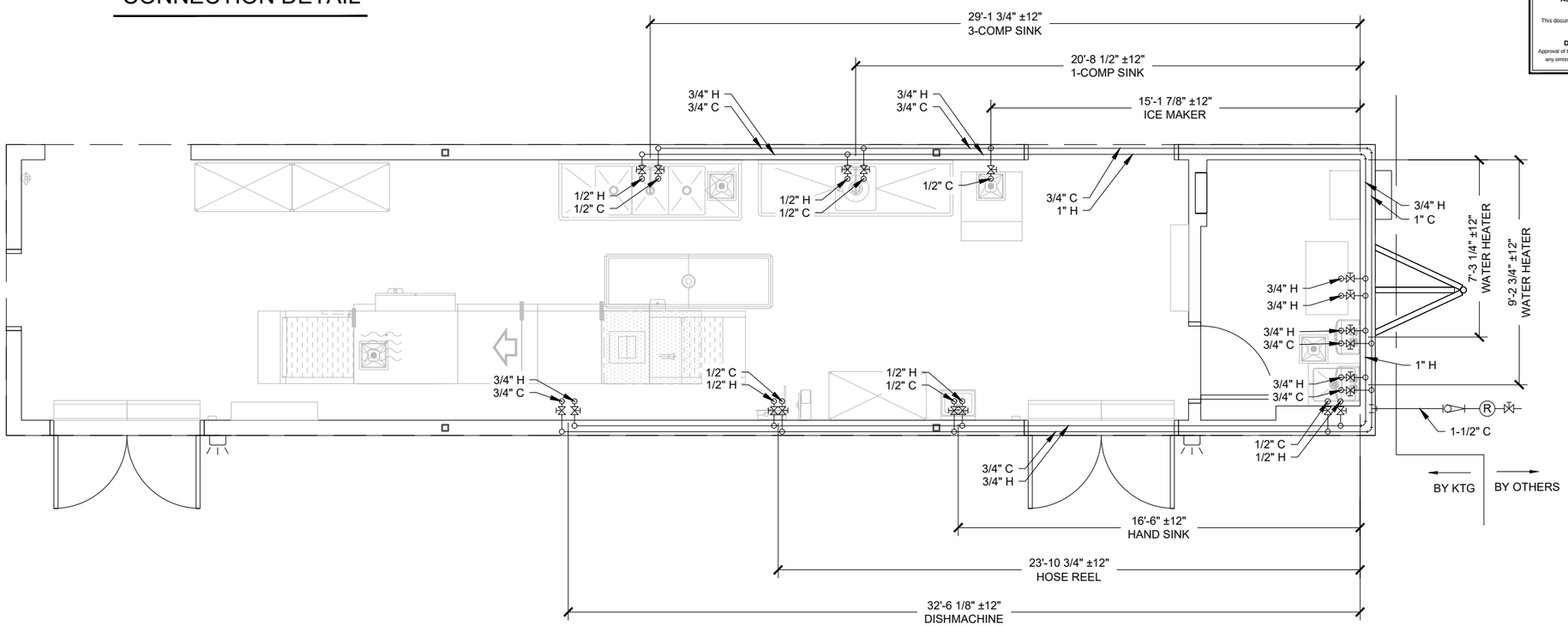


TYPICAL WATER HEATER INSTALLATION DETAIL

SYM	DESCRIPTION
H	HOT WATER LINE
C	COLD WATER LINE
R	PRESSURE REGULATOR
	VALVE, BRASS BALL
	TEE
	90° ELBOW
	FLEX HOSE ASSEMBLY (S.S. BRAIDED MPT x FPT SWIVEL)
	QUICK DISCONNECT
	VALVE 3-WAY
	PUMP
	VACUUM BREAKER
	REDUCER
	CHECK VALVE
	POINT OF CONNECTION
	WATER FILTRATION SYSTEM
	PENETRATION
	HOSE BIBB
	CAP
	BOILER DRAIN VALVE
	PRESSURE RELIEF VALVE
	UNION



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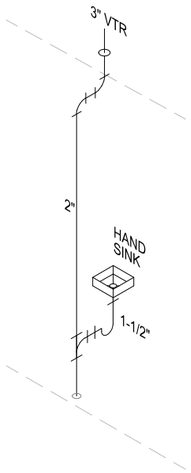
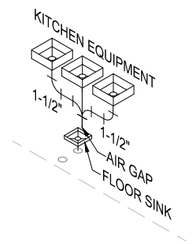
Fresh Water Plumbing Schematic

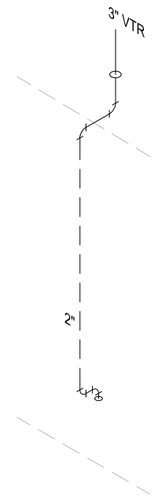
Sheet
(M820) P-601



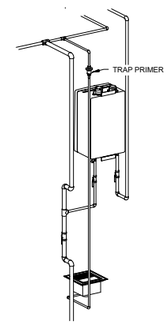
TYPICAL HAND SINK WASTE WATER DETAIL



TYPICAL WASTE WATER CONNECTION DETAIL



TYPICAL VTR WASTE WATER DETAIL



TYPICAL TRAP PRIMER DETAIL

NOTES:

1. ALL LINES SHALL BE ADEQUATELY SUPPORTED WITH GALV. STL 2 HOLE STRAPS AT 3' O.C. MAX.
2. TERMINATION VENT SHALL BE MINIMUM 2 INCHES IN DIAMETER. ANY INCREASE IN THE SIZE OF THE VENT SHALL BE MADE INSIDE THE STRUCTURE A MINIMUM OF 18 INCHES BELOW THE ROOF.
3. ALL PLUMBING LINES SHALL BE OF SCHEDULE 40 PVC DWV OR SCHEDULE 40 ABS DWV UNLESS OTHERWISE SPECIFIED.
4. SEWER LINES FROM FLOOR SINKS SHALL ALL BE SCHEDULE 40 PVC DWV OR SCHEDULE 40 ABS DWV UNLESS OTHERWISE SPECIFIED.
5. FLOOR SINKS SHALL BE MOUNTED WITH EPOXY FLOOR RUN OVER THE EDGE AND DOWN TO THE BOTTOM OF THE VERTICALEDGE OF THE FLOOR SINK.
6. EXPOSED SURFACE LINES SHALL NOT BE RUN UNLESS APPROVED BY CARLIN MANUFACTURING.
7. PIPES TO BE RUN HORIZONTALLY UNDER THE FLOOR AS CLOSE AS POSSIBLE TO BOTTOM OF THE FLOOR EXCEPT WHERE NOTED.
8. WALK-IN COOLER CONDENSATE LINE TO DRAIN TO A APPROVED DRAIN LINE.
9. ALL VENTS SHALL TERMINATE 18" MIN. ABOVE ROOF FINISH LINE UNLESS OTHERWISE SPECIFIED.
10. HVAC CONDENSATION LINES SHALL DRAIN BY MEANS OF AN INDIRECT WASTE PIPE. THE WASTE PIPE SHALL HAVE A SLOPE NOT LESS THAN 1/8 INCH PER FOOT.
11. CLEAN OUTS ARE TO BE READILY ACCESSIBLE ABOVE GRADE (TYP)
12. FOR STORAGE, BLOW OUT WITH COMPRESSED AIR ALL WATER LINES.
13. ADD MIXING VALVE TO DISHWASHER AND CONVECTION STEAMER TO REDUCE TEMPERATURE OF WATER COMING OUT OF THE DRAIN PIPE.
14. ALL PLUMBING CONNECTIONS UNDER THE FLOOR TO BE DONE BY G.C. CONNECTIONS UNDER THE FLOOR SHOWN AS A SUGGESTED LAYOUT ONLY.

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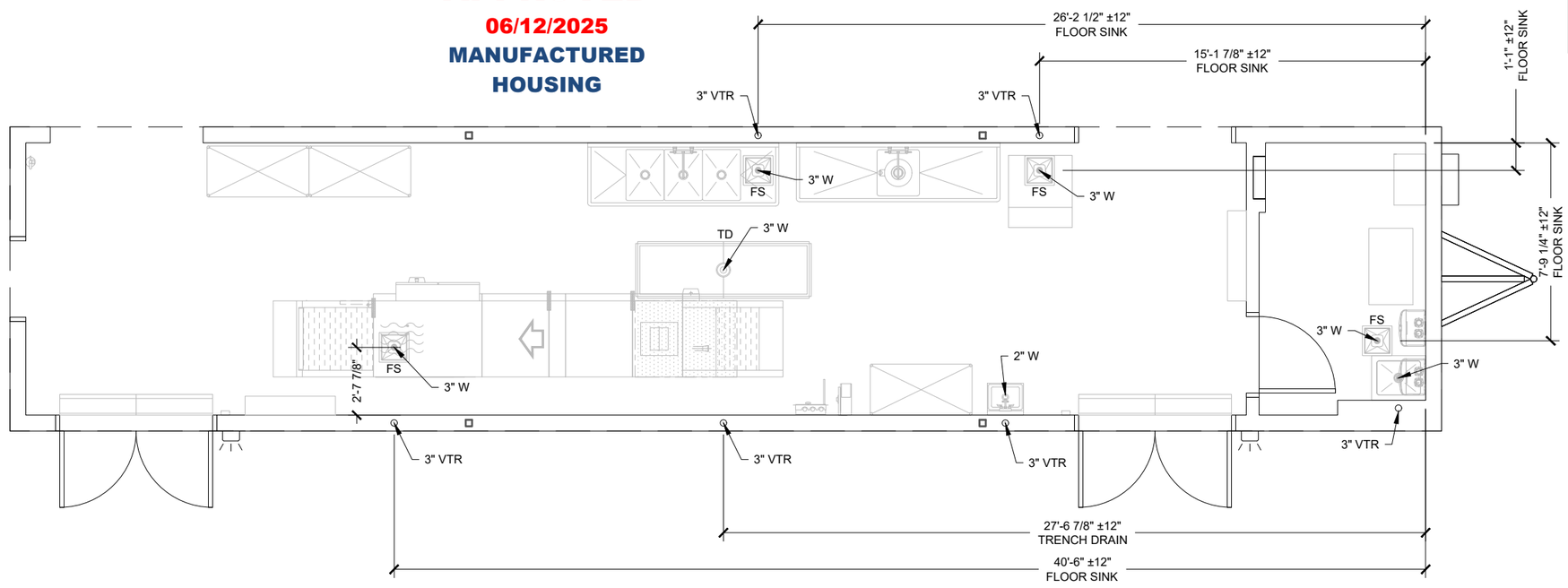

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STATE OF MISSOURI GAYLORD RANSOM NUMBER E-27812 ENGINEER

MCGRATH RENTCORP.
DBA KITCHENS TO GO
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DBA MOBILE MANAGEMENT CORP.
9876 WEST OLD US 30
ETNA GREEN, IN 46524

HCA MIDWEST HEALTH

FDBY LEE'S SUMMIT MEDICAL CENTER

2100 SE Blue Pkwy
Lee's Summit, MO 64063

REV.	DATE	DESCRIPTION	NAME

DELTA - REV -

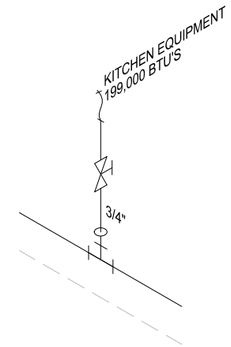
Drawn By: MMS
Approved By: -
QUOTE NUMBER: L24-050
UNIT NUMBER: M820, M821, M681, M682
11x17 SCALE: 3/16"=1'-0"
22x34 SCALE: 3/8"=1'-0"

Waste Water Plumbing Schematic

Sheet
(M820) P-602

NOTES:

1. GAS LINES SHALL BE IN BLACK STEEL PIPE, SCHEDULE 40, UNLESS OTHERWISE SPECIFIED.
2. GAS LINES SHALL BE SUPPORTED WITH PIPE STRAPS.
3. ELECTRICAL VALVE TO BE CONNECTED TO EMERGENCY SHUT OFF AND FIRE SUPPRESSION SYSTEM.
4. A GAS LINE PRESSURE TEST TO BE COMPLETED PRIOR TO UNIT OCCUPANCY.
5. LABELING: THE GAS PIPING SYSTEM SHALL BE LABELED:
   a. AT A MINIMUM OF EVERY TEN FEET.
   b. AT ALL CHANGES OF DIRECTION.
   c. ON EACH SIDE OF A PENETRATION THROUGH A PARTITION, WALL , FLOOR OR CEILING; AND,
   d. AT EVERY GAS SHUTOFF VALVE.
      i. THE LABELS SHALL BE: COLORED YELLOW WITH BLACK LETTERING, INDICATE THE TYPE OF GAS AND THE PRESSURE CONTAINED WITHIN THE PIPING SYSTEM, AND
      ii. THE LETTERS SHALL BE SIZED SO THAT LABELING CAN BE READ FROM A NORMAL LINE OF VISION WHEN STANDING AT THE MAIN FLOOR LEVEL.
6. PIPES TO BE RUN HORIZONTALLY ABOVE THE FLOOR AS CLOSE AS POSSIBLE TO BOTTOM OF THE FLOOR EXCEPT WHERE NOTED.
7. NATURAL GAS SUPPLY REGULATED TO 10.5" WC



TYPICAL GAS CONNECTION DETAIL

SYM	DESCRIPTION
	VALVE, GAS
	TEE
	90° ELBOW
	REGULATOR
	FLEX TUBING ASSEMBLY
	MECHANICAL VALVE
	PILOT BYPASS VALVE
	SOLENOID VALVE
	POINT OF CONNECTION
	PENETRATION
	REDUCER

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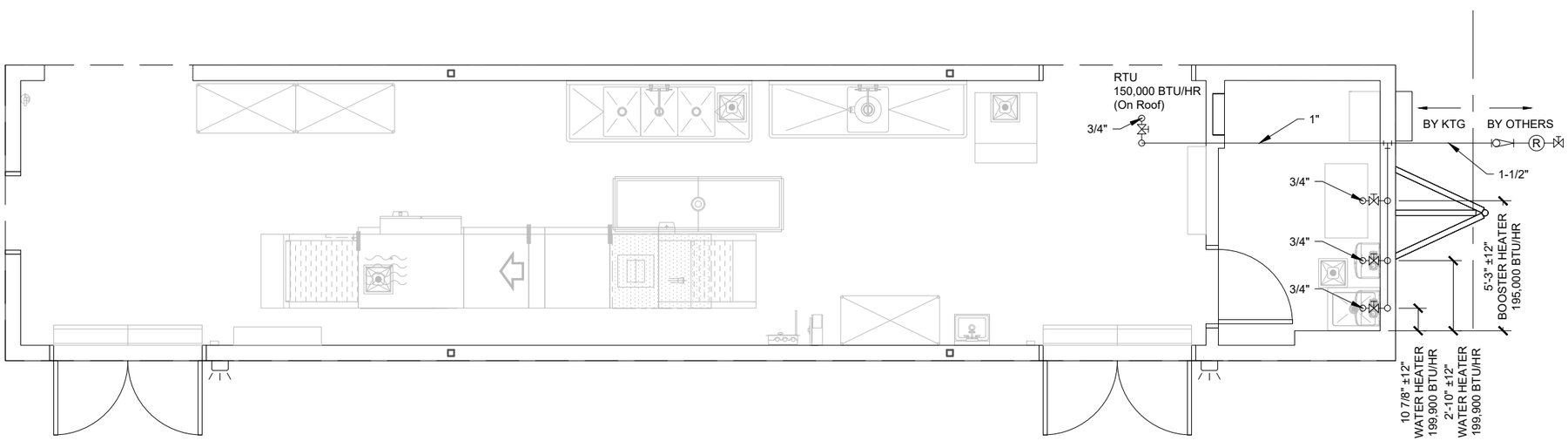

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GAYLORD RANSOM NUMBER E-27812
PROFESSIONAL ENGINEER

MCGRATH RENTCORP.
DBA KITCHENS TO GO
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ETNA GREEN, IN 46524

HCA MIDWEST HEALTH

FDBY LEE'S SUMMIT MEDICAL CENTER

2100 SE Blue Pkwy
Lee's Summit, MO 64063

REV.	DATE	DESCRIPTION	NAME

DELTA - REV -

Drawn By: MMS	Approved By: -
QUOTE NUMBER L24-050	UNIT NUMBER M820, M821, M681, M682

11x17 SCALE: 3/16"=1'-0"
22x34 SCALE: 3/8"=1'-0"

Gas Plumbing Schematic

Sheet
(M820) P-603

LEE'S SUMMIT MEDICAL CENTER COOK UNIT - M821

DRAWING INDEX

SHEET NO.	SHEET CREATED	DESCRIPTION	REV. NUMBER	REV. DATE	REV. NOTE
(M821) G-001		Cover Sheet & Drawing Index			
(M821) I-101		Interior Floor Plan and Equipment List			
(M821) E-101		Electrical Floor Plan Schematic			
(M821) E-601		Electrical Panel Schedule(S)			
(M821) E-602		Electrical Panel Schedule(S)			
(M821) M-501		Makeup Air Specifications			
(M821) M-502		Exhaust Hood Plan & Specifications			
(M821) M-503		Exhaust Hood Plan & Specifications			
(M821) M-504		Exhaust Fan & MUA Specs			
(M821) M-505		Exhaust Fan & MUA Specs			
(M821) M-506		Control Panel			
(M821) M-507		MUA Ducting Specifications			
(M821) M-508		Exhaust Fan Elevation			
(M821) P-601		Fresh Water Plumbing Schematic			
(M821) P-602		Waste Water Plumbing Schematic			
(M821) P-603		Gas Plumbing Schematic			

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Lee's Summit, MO 64063

REV.	DATE	DESCRIPTION	NAME

DELTA - REV -

Drawn By: MMS
Approved By: -
QUOTE NUMBER L24-050
UNIT NUMBER M820, M821, M681, M682
11x17 SCALE: N/A
22x34 SCALE: N/A

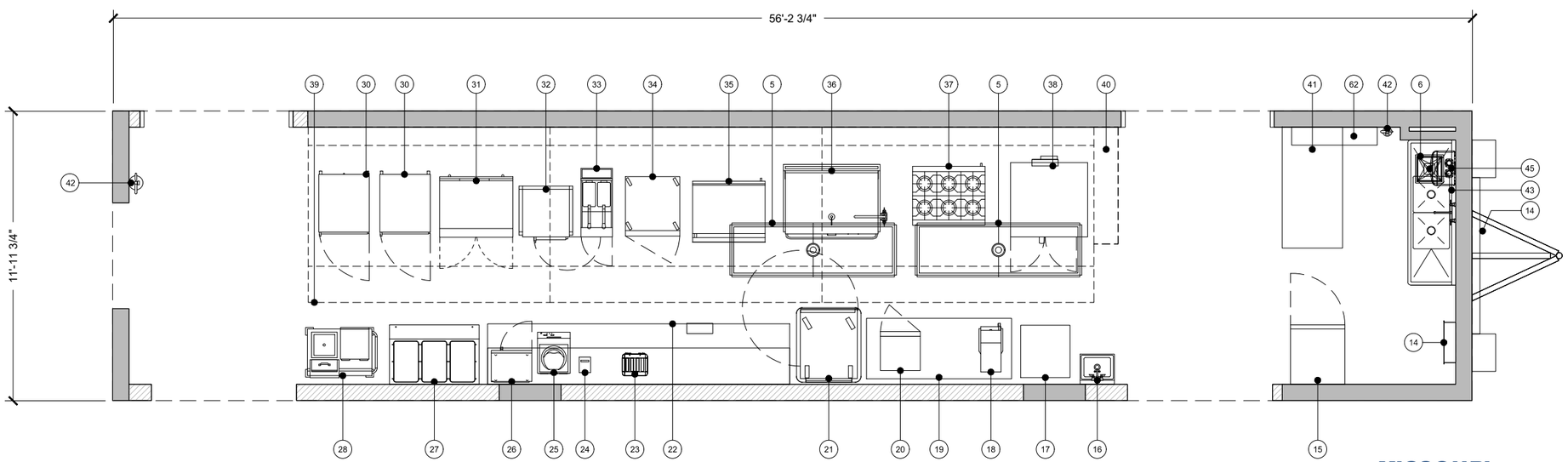
Cover Sheet & Drawing Index

Sheet
(M821) G-001

EQUIPMENT SCHEDULE:

CS = CLIENT SUPPLIED EQUIPMENT

ITEM NO.	DESCRIPTION	KTG	CS	ITEM NO.	DESCRIPTION	KTG	CS	ITEM NO.	DESCRIPTION	KTG	CS
1	36" Interior Door	X		23	Toaster		X	45	Water Heater	X	
2	72" Entry Door	X		24	Ticket Printer		X	46	Mop Sink	X	
3	36" Air Curtain	X		25	Induction Heat Activator		X	47	8' x 20' Walk-In Cooler	X	
4	Flight Type Dish Machine	X		26	Microwave		X	48	8' x 20' Walk-In Freezer	X	
5	Trench Drain	X		27	3 Well Hot Food Table	X		49	8' x 40' Walk-In Dry Storage	X	
6	Floor Sink	X		28	Heated Plate Dispenser	X		50	Open Air Merchandiser	X	
7	Hose Bib With 10' Hose And Nozzle Sprayer	X		29	Fire Extinguisher - "ABC" Type	X		51	Fountain Beverage Machine		X
8	Storage Rack - 48" x 24"		X	30	Hot Holding Cabinet	X		52	Cash Register		X
9	1 Compartment Sink	X		31	Work Top Refrigerator	X		53	Modular Cashier Unit	X	
10	Not Used			32	Dual Stack Convection Steamer	X		54	Hot Food Serving Counter - 3 Well	X	
11	Garbage Disposal	X		33	Fryer	X		55	Hot Food Serving Counter - 2 Well	X	
12	3 Compartment Sink	X		34	Reach-In Freezer	X		56	Cold Food Serving Counter - 3 Well	X	
13	Ice Machine W/ Bin	X		35	36" Griddle W/ Stand	X		57	Cold Food Serving Counter - 2 Well	X	
14	Electrical Panel	X		36	48" Tilt Skillet	X		58	Double Door Beverage Cooler		X
15	Reach-In Refrigerator	X		37	36" 6-Burner Countertop Range W/ Stand	X		59	Dining Table and Chairs		X
16	Hand Sink W/ Eye Wash Station	X		38	Dual Stack Convection Oven	X		60	Not Used		
17	Food Delivery Cart		X	39	Stainless Steel Exhaust Hood - Type 1 (Grease)	X		61	Not Used		
18	Coffee Brewer		X	40	Fire Suppression System	X		62	HVAC Unit	X	
19	Stainless Steel Work Table With Undershelf (30"X72")	X		41	Stainless Steel Work Table With Undershelf (30"X60")	X		63	Floor Sink, Covered & Sealed	X	
20	Countertop Freezer		X	42	Fire Extinguisher - "K" Type	X		64	Wall Storage Cabinet	X	
21	Airscreen Reach-In Refrigerator		X	43	2 Compartment Sink	X		65	Point of Use Water Heater	X	
22	Stainless Steel Work Table With Undershelf And Overshelf (30"X150")		X	44	Booster Heater	X					



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NUMBER E-27812
ENGINEER

MCGRATH RENTCORP.
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HCA MIDWEST HEALTH

FDBY LEE'S SUMMIT MEDICAL CENTER

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REV.	DATE	DESCRIPTION	NAME

DELTA - REV -

Drawn By: MMS
Approved By: -
QUOTE NUMBER: L24-050
UNIT NUMBER: M820, M821, M681, M682
11x17 SCALE: 3/16"=1'-0"
22x34 SCALE: 3/8"=1'-0"

Interior Floor Plan And Equipment List

Sheet

(M821) I-101

NOTES:

1. CONDUIT FROM ELECTRICAL PANEL TO EQUIPMENT JUNCTION BOX TO BE RUN INSIDE WALLS, CEILING OR UNDER FLOOR WHERE POSSIBLE.
2. ALUMINUM RACEWAY TO BE USED WHEN TRANSITION FROM ELECTRICAL PANEL TO JUNCTION BOX OR JUNCTION BOX TO JUNCTION BOX DOES NOT PERMIT RECESSED CONDUIT.
3. WHEN RECESSED JUNCTION BOX IS NOT POSSIBLE, USE A SURFACE MOUNTED ALUMINUM WATER TIGHT JUNCTION BOX.
4. ALL VERTICAL DIMENSIONS ARE FROM FINISH FLOOR. ALL HORIZONTAL DIMENSIONS ARE FROM INSIDE FINISH WALL.
5. WIRING ABOVE SUSPENDED CEILINGS SHALL BE AC CABLE OR SIMILAR. NM CABLE MAY NOT BE USED ABOVE SUSPENDED CEILINGS.
6. NOT USED.
7. ALL 120 VOLTS, 15 AND 20 AMP RECEPTACLES TO BE GFCI PROTECTED.
8. THE LIGHT INTENSITY SHALL BE AT LEAST 50 FOOT-CANDLES ON ALL FOOD PREPARATION SURFACES AND AT EQUIPMENT OR UTENSIL-WASHING WORK LEVELS.
9. THE LIGHT INTENSITY SHALL BE AT LEAST 20 FOOT-CANDLES AT A DISTANCE OF 30" ABOVE THE FLOOR IN THE FOLLOWING:
   A. UTENSIL AND EQUIPMENT STORAGE AREAS.
   B. SINKS AND TOILET AREAS.
   C. WALK-IN REFRIGERATION UNITS.
   D. DRY FOOD STORAGE AREAS.
   E. ALL OTHER AREAS.

   THIS INCLUDES THE AREAS WHERE FOOD IS PROVIDED FOR CONSUMER SELF-SERVICE, SUCH AS BUFFETS AND SALAD BARS, AND ROOMS DURING PERIODS OF CLEANING.
10. THE LIGHT INTENSITY SHALL BE AT LEAST 20 FOOT-CANDLES INSIDE EQUIPMENT, SUCH AS REACH-IN AND UNDER-COUNTER REFRIGERATORS.
11. EXCEPT AS SPECIFIED IN NOTE 13, LIGHT BULBS SHALL BE SHIELDED, COATED, OR OTHERWISE SHATTER-RESISTANT IN AREAS WHERE THERE IS:
    A. EXPOSED FOOD
    B. CLEAN EQUIPMENT, UTENSILS, AND LINENS; OR
    C. UNWRAPPED SINGLE-SERVICE AND SINGLE-USE ARTICLES.
12. SHIELDED, COATED, OR OTHERWISE SHATTER-RESISTANT BULBS NEED NOT BE USED ONLY FOR STORING FOOD IN UNOPENED PACKAGE IF THE:
    A. INTEGRITY OF THE PACKAGES CANNOT BE AFFECTED BY BROKEN GLASS FALLING ONTO THEM; AND
    B. PACKAGES ARE CAPABLE OF BEING CLEANED OF DEBRIS FROM BROKEN BULBS BEFORE THE PACKAGES ARE OPENED.
13. AN INFRARED OR OTHER HEAT LAMP SHALL BE PROTECTED AGAINST BREAKAGE BY SHIELD SURROUNDING AND EXTENDING BEYOND THE BULB SO THAT ONLY THE FACE OF THE BULB IS EXPOSED.
14. ALL ESSENTIAL ELECTRICAL SYSTEMS AND EMERGENCY SYSTEMS SHALL BE INSTALLED BY OTHERS.
15. CIRCUITS #B2, B(18,20), B(22,24), B26, B28, B30, B32, B(34,36,38) TO BE CORD DROPS.
16. UDS CIRCUIT NUMBERS ARE USED AS A GUIDE ONLY TO LOCATE THE CIRCUITS AND TO CALCULATE THE ELECTRICAL LOAD FOR THE TWO UDS SECTIONS.
17. ALL EXIT & EMERGENCY WALL PACK LTS. TO BE CONNECTED TO NEAREST UNSWITCHED LTG. CIRCUIT PER NEC.
18. ALL 15 & 20 AMP RATED RECEPTACLES IN KITCHEN SPACE SHALL BE GFI PROTECTED PER NEC.
19. MOTOR RATED SWITCH DISCONNECT FOR WATER HEATER.
20. PROVIDE SUITABLE DISCONNECT SWITCH FOR AIR CURTAIN IF NOT FACTORY INSTALLED.
21. TEMPORARY CONNECTION BETWEEN EXTERIOR J-BOXES TO FEED THE UDS FROM INTERIOR ELECTRICAL PANEL (FOR GAS/ELECTRIC PROJECTS)

ELECTRICAL SYMBOL LEGEND
4' - LED LIGHT FIXTURE
24" X 48" LED (2) TUBE (LAY-IN) W/ PRISMATIC LENS EMERGENCY BATTERY BACKUP
4' - 4 TUBE FLUORESCENT FIXTURE
4' - 3 TUBE FLUORESCENT FIXTURE
SINGLE OUTLET - FLUSH MOUNTED
DUPLEX OUTLET - FLUSH MOUNTED
DUPLEX OUTLET - SURFACE MOUNTED
FOURPLEX OUTLET - FLUSH MOUNTED
FOURPLEX OUTLET - SURFACE MOUNTED
HARDWIRE CONNECTION - FLUSH MOUNTED
HARDWIRE CONNECTION - SURFACE MOUNTED
208V OUTLET - FLUSH MOUNTED
208V OUTLET - SURFACE MOUNTED
EXHAUST FAN
SWITCH - FLUSH MOUNTED
SWITCH - SURFACE MOUNTED
3-WAY SWITCH - FLUSH MOUNTED
3-WAY SWITCH - SURFACE MOUNTED
DENOTES CIRCUIT NUMBER (#8)
EXT. SCENE LIGHT / ENTRY LIGHT
VAPOR PROOF LIGHT/HOOD LIGHT
EMERGENCY EXIT LIGHT

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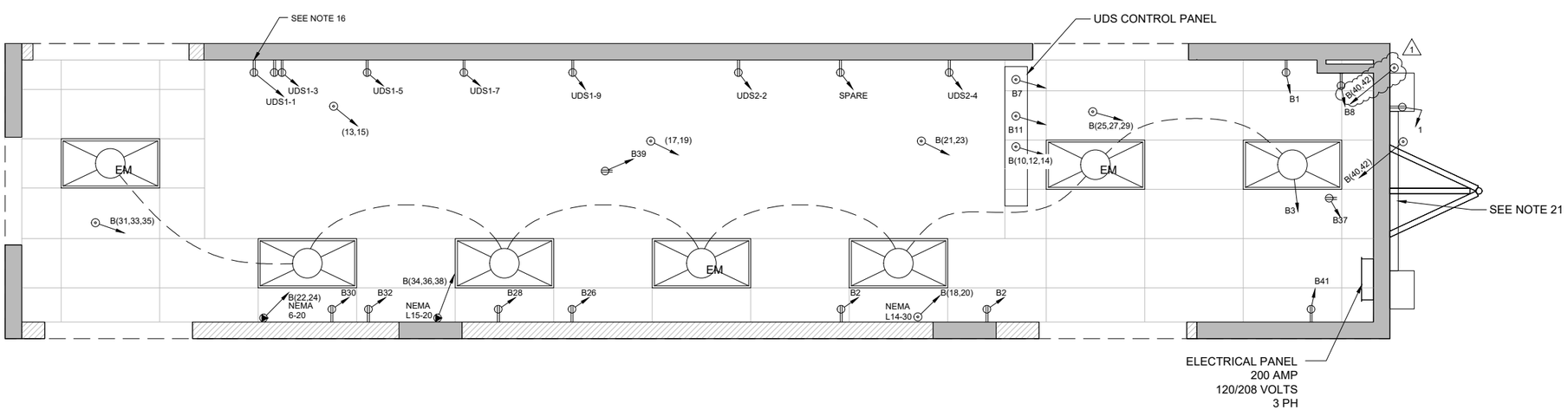

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GAYLORD RANSOM NUMBER E-27812
REGISTERED PROFESSIONAL ENGINEER

APPROVED BY CLIENT

BY:

DATE:

HCA MIDWEST HEALTH

FDBY LEE'S SUMMIT MEDICAL CENTER

2100 SE Blue Pkwy
Lee's Summit, MO 64063

REV.	DATE	DESCRIPTION	NAME
1	04-25-25	Per Deviation Report	MMS

DELTA 1 REV 1

Drawn By: MMS	Approved By: -
QUOTE NUMBER L24-050	UNIT NUMBER M820, M821, M681, M682

11x17 SCALE: 3/16"=1'-0"
22x34 SCALE: 3/8"=1'-0"

Electrical Floor Plan Schematic

Sheet
(M821) E-101

NOTES:

1. STANDARD WEIGHT RIGID METAL CONDUIT SHALL BE HOT DIPPED GALVANIZED, ALL FITTINGS SHALL BE OF THE SCREW THREAD TYPE. COUPLINGS, LOCKNUTS, BUSHINGS, ETC., SHALL BE HOT DIPPED GALVANIZED.
2. ELECTRICAL METALLIC TUBING (EMT) SHALL BE GALVANIZED. COUPLINGS AND CONNECTORS SHALL BE GALVANIZED. FITTINGS SHALL BE COMPRESSION TYPE WITH GLAND SEALING RINGS OR SET SCREW TYPE.
3. FLEXIBLE CONDUIT SHALL BE GALVANIZED STEEL OR ALUMINUM. WHERE USED IN DAMP OR WET LOCATIONS FLEXIBLE CONDUIT SHALL BE OF THE LIQUID-TIGHT TYPE WITH OUTER NEOPRENE JACKET AND SUITABLE LIQUID-TIGHT FITTINGS.
4. WIRE AND CABLE FOR USE ON SYSTEMS OF 50 VOLTS TO 600 VOLTS SHALL BE 600 VOLT RATED TYPE THW OR THHN FOR BRANCH CIRCUITS. FEEDERS SHALL BE THHN (THWN IN WET LOCATIONS).
5. WIRE AND CABLE FOR USE ON SYSTEMS OF BELOW 50 VOLTS SHALL BE 300 VOLT PVC INSULATED AND SUITABLE FOR THE CLASS OF WIRING EXCEPT AS OTHERWISE INDICATED OR SPECIFIED.
6. ALL CONDUCTORS SHALL BE COPPER. MIN. SIZE - 12GA THHN (THWN IN WET LOCATIONS)
7. STANDARD WEIGHT RIGID METAL CONDUIT SHALL BE USED WHERE EXPOSED TO THE WEATHER, PLACED UNDERGROUND BELOW CONCRETE SLAB, IN CONCRETE OR MASONRY CONSTRUCTION IN CONTACT WITH EARTH.
8. GALVANIZED STEEL ELECTRICAL METALLIC TUBING SHALL BE USED IN ABOVE GROUND, INTERIOR, DRY LOCATIONS PROTECTED FROM WEATHER AND PHYSICAL DAMAGE, AND MAY BE USED IN CONCRETE OR MASONRY CONSTRUCTION NOT IN CONTACT WITH EARTH.
9. FLEXIBLE METALLIC CONDUIT SHALL BE USED TO CONNECT CONDUIT SYSTEMS TO MOTORS, DIRECT WIRED AND VIBRATING EQUIPMENT AND AS A FINAL CONNECTION TO LIGHTING FIXTURES (6' MAX) IN ACCESSIBLE CEILINGS. IT MAY BE USED AS A WIRING SYSTEM INSTEAD OF EMT IN INTERIOR WALLS ONLY (DRY FRAME OR STUD CONSTRUCTION).
10. LIQUIDTIGHT FLEXIBLE METAL CONDUIT SHALL BE USED FOR FINAL ELECTRICAL CONNECTIONS TO ROOF TOP OR OTHER EQUIPMENT EXPOSED TO THE ENVIRONMENT.

LEE SUMMIT MEDICAL CENTER

200 AMP — 120/208VOLTS — 4 WIRE — 60HZ — 3PH — M821 - B

AWG	COLOR	ITEM	LOAD TYPE	P	AMPS	CIRC.	PHASE A		PHASE B		PHASE C		P	AMPS	CIRC.	LOAD TYPE	ITEM	AWG	COLOR
12	B	RECEPTS	R	1	20	1	1200	876					1	20	2	K	COUNTER TOP FREEZER/AIRSCREEN REFRIGERATOR	12	B
																	20 & 21		
12	R	LIGHTS	L	1	20	3			800	0			2	20	4	K	SPARE	12	R
12	BL	SPARE	K	1	20	5					0	0	-	20	6	K	SPARE	12	BL
12	B	HOOD CONTROLS	K	1	20	7	400	200					1	20	8		WATER HEATER	12	BL
					GFI									GFI			45		
12	R	SPARE	R	1	20	9			1200	2356			3	50	10	K	UDS SYSTEM	8	R
					GFI														
12	BL	HOOD CONTROLS	K	1	20	11					400	3580	-	50	12	K	"	8	BL
					GFI														
12	B	EXHAUST FAN #1	CL	2	20	13	1173	444					-	50	14	K	"	8	B
12	R	"	CL	-	20	15			1173	1173			1	20	16	R	QUAD	12	R
12	BL	EXHAUST FAN #2	CL	2	20	17					1173	1325	2	30	18	K	COFFEE BREWER	10	BL
																	18		
12	B	"	CL	-	20	19	1173	1325					-	30	20	K	"	10	B
12	R	EXHAUST FAN #3	CL	2	20	21			1173	1600			2	20	22	K	HEATED PLATE DISPENSER	12	R
																	28		
12	BL	"	CL	-	20	23					1173	1600	-	20	24	K	"	12	BL
8	B	MUA 1	CL	3	40	25	2294	1800					1	20	26	K	TOASTER	12	B
																	23		
8	R	"	CL	-	40	27			2294	400			1	20	28	K	TICKET PRINTER	12	R
																	24		
8	BL	"	CL	-	40	29					2294	1500	1	20	30	K	3 WELL HOT FOOD TABLE	12	BL
																	27		
12	B	MUA 2	CL	3	20	31	1021	2000					1	20	32	K	MICROWAVE	12	B
														GFI			26		
12	R	"	CL	-	20	33			1021	1801			3	20	34	K	INDUCTION HEAT ACTIVATOR	12	R
																	25		
12	BL	"	CL	-	20	35					1021	1801	-	20	36	K	"	12	BL
12	B	HEAT TAPE 1	NC	1	20	37	1200	1700					-	20	38	K	"	12	BL
					GFI														
12	R	HEAT TAPE 2	NC	1	20	39			1200	2080			2	25	40	M	MINI SPLIT UNIT 2 TON	10	R
					GFI												62		
12	BL	REACH IN REFRIGERATOR	K	1	20	41					264	2080	-	25	42	M	"	10	BL
		15																	
							8461	8345	8861	9410	6325	11886							
							16806		18271		18211								

		CONN. VA		DEMAND FACTOR	DEMAND VA
TOTAL KITCHEN LOAD	=	25372	X	0.65	16491.8
TOTAL LIGHTING LOAD	=	800	X	1.25	1000.0
TOTAL NON-CONT. LOAD	=	2400	X	1	2400.0
TOAL RECEPTACLE LOAD	=	3573	X	1	3573.0
TOTAL CONTINUOS LOAD	=	16983	X	1.25	21228.8
TOTAL HVAC LOAD	=	0	X	1	0.0
LARGEST MOTOR LOAD	=	0	X	1.25	0.0
TOTAL MISC. LOAD	=	4160	X	1	4160.0
TOTAL VA SECTION "A"	=	53288			48853.6
TOTAL VA	=	53288			48853.6
TOTAL AMPS	=	147.9			135.6

LOAD TYPE KEY:

K	=	KITCHEN LOAD
L	=	LIGHTING LOAD
NC	=	NON-CONTINUOS LOAD
R	=	RECEPTACLE LOAD
CL	=	CONTINUOS LOAD
H	=	HVAC LOAD
LM	=	LARGEST MOTOR LOAD
M	=	MISC.

TOTAL= 48853.6 VA

I = 135.6 AMPS

1

MISSOURI PUBLIC SERVICE COMMISSION
APPROVED
06/12/2025
MANUFACTURED HOUSING

T.R ARNOLD & ASSOCIATES, INC.
4702 Chester Drive
Elkhart, IN 46516
State(s) Missouri
Accredited Evaluation and Inspection Agency
This document is certified as being in conformance with State Building Codes.
Date May 13, 2025
Approval of this document does not authorize or approve any omission or deviation from the requirements of applicable State Laws.

4/25/2025 12:17:13 PM

SUBMITTAL SET

KITCHENS TO GO by mobile modular
We Keep You Cooking!™
131 WEST JEFFERSON AVE.
SUITE 223
NAPERVILLE, IL. 60540
630-355-1660
www.kitchenstogo.com

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STATE OF MISSOURI — GAYLORD RANSOM NUMBER E-27812 — REGISTERED PROFESSIONAL ENGINEER

HCA MIDWEST HEALTH

FDBY LEE'S SUMMIT MEDICAL CENTER

2100 SE Blue Pkwy
Lee's Summit, MO 64063

REV.	DATE	DESCRIPTION	NAME
1	04-25-25	Per Deviation Report	MMS

DELTA 1 REV 1

Drawn By: MMS
Approved By: -
QUOTE NUMBER: L24-050
UNIT NUMBER: M820, M821, M681, M682
11x17 SCALE: N/A
22x34 SCALE: N/A

Electrical Panel Schedule(S)

Sheet
(M821) E-601

LEE SUMMIT MEDICAL CENTER
120/208VOLTS 4 WIRE 60HZ 3PH
400 AMP

M821-UDS 1 SECTION
EQUIPMENT BELOW

AWG	COLOR	ITEM	LOAD TYPE	P	AMPS	CIRC	PHASE A		PHASE B		PHASE C		P	AMPS	CIRC	LOAD TYPE	ITEM	AWG	COLOR
12	B	HOT HOLDING CABINET 1	K	1	20	1	1900	216					1	20	2	K	40 GAL SKILLET	12	B
		30															36		
12	R	HOT HOLDING CABINET 2	K	1	20	3			1900	1440			1	20	4	K	DUAL STACK CONVECTION OVEN	12	R
		30															38		
12	BL	WORKTOP REFRIGERATOR	K	1	20	5					444	0							
		31																	
12	B	DUAL STACK CONVECTION STEAMER	K	1	20	7	240	0											
		32																	
12	R	REACH IN FREEZER	K	1	20	9			240	0									
		34																	
											0	0							
							2140	216	2140	1440	444	0							
							2356		3580		444								

		CONN. VA		DEMAND FACTOR	DEMAND VA
TOTAL KITCHEN LOAD	=	6380	X	0.65	4147.0
TOTAL LIGHTING LOAD	=	0	X	1.25	0.0
TOTAL NON-CONT. LOAD	=	0	X	1	0.0
TOAL RECEPTACLE LOAD	=	0	X	1	0.0
TOTAL CONTINUOS LOAD	=	0	X	1.25	0.0
TOTAL HVAC LOAD	=	0	X	1	0.0
LARGEST MOTOR LOAD	=	0	X	1.25	0.0
TOTAL VA SECTION "A"	=	6380			4147.0
TOTAL VA	=	6380			4147.0
TOTAL AMPS	=	17.7			11.5

LOAD TYPE KEY:
K = KITCHEN LOAD
L = LIGHTING LOAD
NC = NON-CONTINUOS LOAD
R = RECEPTACLE LOAD
CL = CONTINUOS LOAD
H = HVAC LOAD
LM = LARGEST MOTOR LOAD

TOTAL= 6380.0 VA

I = 17.7 AMPS

LEE SUMMIT MEDICAL CENTER
120/208VOLTS 4 WIRE 60HZ 3PH
200 AMP

M821-MUA COND. UNITS

AWG	COLOR	ITEM	LOAD TYPE	P	AMPS	CIRC	PHASE A		PHASE B		PHASE C		P	AMPS	CIRC	LOAD TYPE	ITEM	AWG	COLOR
10	B	M821-MUA 1 COND UNIT 1	M	3	30	1	2570	2570					3	30	2	M	M821-MUA 1 COND UNIT 3	10	B
10	R	"	M	-	30	3			2570	2570			-	30	4	M	"	10	R
10	BL	"	M	-	30	5					2570	2570	-	30	6	M	"	10	BL
10	B	M821-MUA 1 COND UNIT 2	M	3	30	7	2570	2570					3	30	8	M	M821-MUA 1 COND UNIT 4	10	BL
10	R	"	M	-	30	9			2570	2570			-	30	10	M	"	10	R
10	BL	"	M	-	30	11					2570	2570	-	30	12	M	"	10	BL
						13	0	2570					3	30	14	M	M821-MUA 1 COND UNIT 5	10	B
						15			0	2570			-	30	16	M	"	10	R
						17					0	2570	-	30	18	M	"	10	BL
						19	0	0							20				
						21			0	0					22				
						23					0	0			24				
						25	0	0							26				
						27			0	0					28				
						29					0	0			30				
							5140	7710	5140	7710	5140	7710							
							12850		12850		12850								

		CONN. VA		DEMAND FACTOR	DEMAND VA
TOTAL KITCHEN LOAD	=	0	X	1	0.0
TOTAL LIGHTING LOAD	=	0	X	1	0.0
TOTAL NON-CONT. LOAD	=	0	X	1	0.0
TOAL RECEPTACLE LOAD	=	0	X	1	0.0
TOTAL CONTINUOS LOAD	=	0	X	1	0.0
TOTAL HVAC LOAD	=	0	X	1	0.0
LARGEST MOTOR LOAD	=	0	X	1	0.0
TOTAL MISC. LOAD	=	38550	X	1	38550.0
TOTAL VA SECTION "A"	=	38550			38550.0
TOTAL VA	=	38550			38550.0
TOTAL AMPS	=	107.0			107.0

LOAD TYPE KEY:
K = KITCHEN LOAD
L = LIGHTING LOAD
NC = NON-CONTINUOS LOAD
R = RECEPTACLE LOAD
CL = CONTINUOS LOAD
H = HVAC LOAD
LM = LARGEST MOTOR LOAD
M = MISC.

TOTAL= 38550.0 VA

I = 107.0 AMPS

NOTES:

PANEL SCHEDULE USED ONLY AS A GUIDE AND REPRESENTATION OF THE CIRCUITS REQUIRED BY THE LEFT HALF SECTION OF THE UDS SYSTEM (400 AMP SECTION) "UDS 1" AND RIGHT HALF SECTION OF THE UDS SYSTEM (400 AMP SECTION) "UDS-2)

UDS-1 AND UDS-2 TO BE MCB PROTECTED PANELS WITH 120V SHUNT TRIP. INTERLOCK SHUNT TRIP MODULES FROM EACH PANEL WITH DRY CONMTACTS IN ANSUL CAB. COORD. EXACT TERMINATION REQUIREMENT WITH ANSUL INSTALLATION & SHOP DWG'S

MISSOURI
PUBLIC SERVICE
COMMISSION
APPROVED
06/12/2025
MANUFACTURED
HOUSING

T.R ARNOLD & ASSOCIATES, INC.
470 Chester Drive
Elkhart, IN 46516
State(s) Missouri
Accredited Evaluation and Inspection Agency
This document is certified as being in conformance with State Building Codes.
Date May 13, 2025
Approval of this document does not authorize or approve any omission or deviation from the requirements of applicable State Laws.

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SUBMITTAL SET

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STATE OF MISSOURI
GAYLORD RANSOM
NUMBER E-27812
PROFESSIONAL ENGINEER

MCGRATH RENTCORP.
DBA KITCHENS TO GO
BY MOBILE MODULAR
DBA MOBILE MANAGEMENT CORP.
9876 WEST OLD US 30
ETNA GREEN, IN 46524

HCA MIDWEST HEALTH

FDBY LEE'S SUMMIT MEDICAL CENTER

2100 SE Blue Pkwy
Lee's Summit, MO 64063

REV.	DATE	DESCRIPTION	NAME

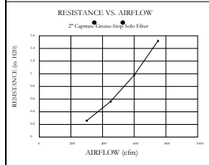
DELTA - REV -

Drawn By: MMS
Approved By: -
QUOTE NUMBER L24-050
UNIT NUMBER M820, M821, M681, M682
11x17 SCALE: N/A
22x34 SCALE: N/A

Electrical Panel Schedule(S)

Sheet
(M821) E-602

Captrate
Grease-Stop Solo Filter



Filter Detail

CAPTRATE•

EXHAUST CFM=LENGTH OF HOOD X CFM/LIN.FT. (LOAD)

SUPPLY CFM=EXHAUST CFM X PERCENTAGE REQUIRED

TOTAL DUCT AREA=144 X $\frac{\text{CFM}}{\text{FPM(*)}}$

DUCT LENGTH= $\frac{\text{TOTAL DUCT AREA}}{\text{DUCT DEPTH}}$

GREASE-STOP SOLO FILTER IS ETL LISTED UNDER FILE NUMBER 3064494-001 AND COMPLIES WITH UL1046 STANDARD, NSF STANDARD #2, NFPA 96 AND IMC

*CAPTIVE-AIRE VENTILATOR DUCT SIZES ARE CALCULATED USING AN EXHAUST VELOCITY OF 1600-1800 FPM AND A SUPPLY VELOCITY OF 1000 FPM PLEASE CONSULT FACTORY FOR MAXIMUM ALLOWABLE DUCT SIZES

CALCULATIONS UTILIZED

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH:

- NFPA #96
- B.O.C.A. #93-16
- I.C.B.O. 3441G
- SBCCI PST & ESI NO. 9313?
- E.T.L. LISTED 3054804-001
- LOS ANGELES RR#8080
- ETL IS LISTED TO ULC STANDARDS

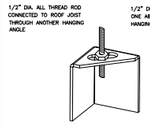
NFPA

Intertek

BUILDING CODES

GREASE CUP WILL BE SUPPORTED BY TWO STUDS ON THE INSIDE WALL OF THE HOOD. THE GREASE WILL DRAIN THROUGH A CONCEALED GREASE TROUGH AND INTO THIS REMOVEABLE/CLEANABLE CUP.

1/2 Pint Grease Cup Detail



ND-2 HANGING ANGLE DETAIL

HANGING ANGLES WILL BE LOCATED IN THE FOLLOWING LOCATIONS FOR WALL CANOPIES

HOOD STYLE		DIM FROM REAR	DIM FROM FRONT (24" High Hood)	DIM FROM FRONT (30" High Hood)
Wall	Exhaust Only	4.166"	2.25"	2.25"
	With MUA		2.25"	2.25"
Back Shelf	Exhaust Only	4.166"	2.25"	2.25"
	With MUA		2.25"	2.25"
Condensate		2.25"	2.25"	

HANGING ANGLE LOCATIONS

HOOD INFORMATION – Job#2516893

HOOD NO.	TAG	MODEL	LENGTH	MAX. COOKING TEMP.	TOTAL EXH. CFM	EXHAUST PLENUM RISER(S) WIDTH	LENG.	DIA.	CFM	S.P.	TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG. END TO END	ROW
1		6024 ND-2-PSP-F	10' 0.00"	600 Deg.	2450			16"	2450	-0.873"	2075	304 SS 100%	LEFT	ALONE
2		6024 ND-2-PSP-F	11' 3.00"	600 Deg.	2750			16"	2750	-1.077"	2350	304 SS 100%	MIDDLE	ALONE
3		6024 ND-2-PSP-F	11' 3.00"	600 Deg.	2750			16"	2750	-1.077"	2350	304 SS 100%	RIGHT	ALONE

HOOD INFORMATION

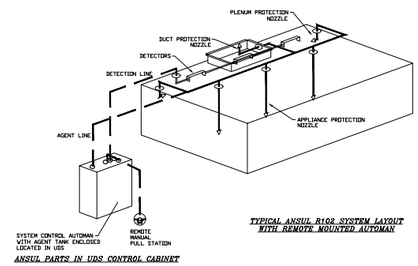
HOOD NO.	TAG	FILTER(S) TYPE	QTY.	HEIGHT	LENGTH	EFFICIENCY @ 9 MICRONS	LIGHT(S) QTY.	TYPE	WIRE GUARD	UTILITY CABINET(S) LOCATION	FIRE SYSTEM TYPE	SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WGHT
1		Captrate Solo Filter	7	20"	16"	93% See Filter Spec.	3	L55 Series E26	NO						YES	737 LBS
2		Captrate Solo Filter	8	20"	16"	93% See Filter Spec.	4	L55 Series E26	NO						YES	761 LBS
3		Captrate Solo Filter	8	20"	16"	93% See Filter Spec.	4	L55 Series E26	NO						YES	761 LBS

HOOD OPTIONS

HOOD NO.	TAG	OPTION
1		BACK STANDOFF (FLAT) 9" Wide 120" Long
		INSULATION FOR TOP OF HOOD
		INSULATION FOR BACK OF HOOD
		LEFT VERTICAL END PANEL 27" Top Width, 21" Bottom Width, 80" High Insulated 4" Legs 304 SS
2		BACK STANDOFF (FLAT) 9" Wide 135" Long
		INSULATION FOR TOP OF HOOD
		INSULATION FOR BACK OF HOOD
3		BACK STANDOFF (FLAT) 9" Wide 135" Long
		INSULATION FOR TOP OF HOOD
		INSULATION FOR BACK OF HOOD

PERFORATED SUPPLY PLENUM(S)

HOOD NO.	TAG	POS.	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S) WIDTH	LENG.	DIA.	CFM	S.P.
1		Front	120"	18"	6"	MUA	12"	24"		691	0.211"
						MUA	12"	24"		691	0.211"
						MUA	12"	24"		691	0.211"
2		Front	135"	18"	6"	MUA	12"	24"		783	0.267"
						MUA	12"	24"		783	0.267"
						MUA	12"	24"		783	0.267"
3		Front	135"	18"	6"	MUA	12"	24"		783	0.267"
						MUA	12"	24"		783	0.267"
						MUA	12"	24"		783	0.267"



ANSUL PARTS IN UDS CONTROL CABINET

TYPICAL ANSUL R102 SYSTEM LAYOUT WITH REMOTE MOUNTED AUTOMAN

EXHAUST FAN INFORMATION – Job#2516893

FAN UNIT NO.	TAG	FAN UNIT MODEL #	CFM	ESP.	RPM	H.P.	B.H.P.	ø	VOLT	FLA	WEIGHT (LBS.)	SONES
1		NCA16FA	2450	1.000	1011	1.000	0.8030	1	230	7.0	163	11.6
2		NCA16FA	2750	1.250	1131	1.500	1.1090	1	230	10.2	169	13.8
3		NCA16FA	2750	1.250	1086	1.500	0.9830	1	230	10.2	169	13.8

CONDENSER DETAILS

FAN UNIT NO.	TAG	FAN UNIT MODEL #	CONDENSER NO.	TONNAGE	VOLTAGE	PHASE	FREQUENCY	MCA	RLA	MAX. FUSE SIZE	MIN. WIRE SIZE	SEER
4		A2-D.250-G15-R-MPU	1	5	208-230	3 PHASE	60 Hz	21.4 Amps	17.4 Amps	30 Amps	12 AWG	14
			2	5	208-230	3 PHASE	60 Hz	21.4 Amps	17.4 Amps	30 Amps	12 AWG	14
5		A3-D.500-G18-MPU	1	5	208-230	3 PHASE	60 Hz	21.4 Amps	17.4 Amps	30 Amps	12 AWG	14
			2	5	208-230	3 PHASE	60 Hz	21.4 Amps	17.4 Amps	30 Amps	12 AWG	14
			3	5	208-230	3 PHASE	60 Hz	21.4 Amps	17.4 Amps	30 Amps	12 AWG	14

MUA FAN INFORMATION – Job#2516893

FAN UNIT NO.	TAG	FAN UNIT MODEL #	BLOWER	HOUSING	CFM	ESP.	RPM	H.P.	B.H.P.	ø	VOLT	FLA	COOLING COIL ENTERING DB TEMP.	COOLING COIL ENTERING WB TEMP.	COOLING COIL LEAVING DB TEMP.	COOLING COIL LEAVING WB TEMP.	COOLING COIL TOTAL CAPACITY	COOLING COIL SENSIBLE CAPACITY	COOLING COIL LATENT CAPACITY	WEIGHT (LBS.)	SONES	BURNER EFFICIENCY(%)
4		A2-D.250-G15-R-MPU	G15-PB	A2-D.250	2450	0.650	999	3.000	1.7220	3	230	8.5	88.0°F	73.0°F	63.0°F	59.0°F	120.0 MBH	67.3 MBH	52.7 MBH	2098	18.3	92
5		A3-D.500-G18-MPU	G18-PB	A3-D.500	5500	0.650	1104	7.500	5.6140	3	230	19.1	88.0°F	73.0°F	72.0°F	64.0°F	180.0 MBH	97.8 MBH	82.2 MBH	2659	24	92

GAS FIRED MAKE-UP AIR UNIT(S)

FAN UNIT NO.	TAG	ACTUAL AIR DENSITY?	INPUT BTUs	OUTPUT BTUs	TEMP. RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE
4		YES	213310	196245	75 deg F	7 in. w.c. - 14 in. w.c.	Natural
5		YES	478859	440550	75 deg F	7 in. w.c. - 14 in. w.c.	Natural

MECHANICAL AIR BALANCE

TOTAL HOOD EXHAUST	7950 CFM
HOOD MUA VIA PSP	6775 CFM
DEDICATED MUA VIA DIFFUSER	1175 CFM
REMAINDER FROM HVAC	0 CFM

FAN OPTIONS

FAN UNIT NO.	TAG	OPTION (Qty. - Descr.)
1		1 - Grease Box
		1 - Extra Set of Belts
		1 - Fan Base Ceramic Seal - For Grease Ducts
2		1 - Grease Box
		1 - Extra Set of Belts
		1 - Fan Base Ceramic Seal - For Grease Ducts
3		1 - Grease Box
		1 - Extra Set of Belts
		1 - Fan Base Ceramic Seal - For Grease Ducts
4		1 - Motorized Backdraft Damper for A2-D Housing
		1 - Inlet Pressure Gauge, 0-35"
		1 - Manifold Pressure Gauge, -5 to 15" wc
		1 - Full Crating For Commercial Heater
		1 - 10 Ton 2 Circuit (5/5) Modular Packaged AC Cooling Option for Size 2 MUA (1500 to 3000 cfm), 208V/230V, 3 phase. Cooling Thermostat or Programmable Stat Required for Proper Operation.
		1 - Double Wall Steel Liner - Size 2 Unit
		1 - Extra Set of Belts
		1 - Size 2 Direct Fired Heater Low CFM Profile Package. Used on Heaters under 2500 cfm.
		1 - Size 2 RTU Convenience Outlet (GFCI), 15 amp - Power Supply by Others
		1 - Control panel enclosure heater. Recomended for winter design temperature less than 0°F.
		1 - Commercial Smoke Detector/Alarm Interlock (Supplied by Others)
		1 - Mixing Box for Size 2 Modular Supply Fans - 365 Day Stat Control
		1 - Freezestat (10') with Low Temp Indicator on Thermostat
		1 - VAV Package w/Preset or Reference Speeds (VFD Included)
		1 - VFD factory mounted and wired in commercial control vestibule for tempered supply fan.
		1 - MERV 8 filter option for Size 2 Mixing Box. Mixing Box must be selected for this option.
5		1 - Low Fire Start
		1 - Inlet Pressure Gauge, 0-35"
		1 - Manifold Pressure Gauge, -5 to 15" wc
		1 - Full Crating For Commercial Heater
		1 - Motorized Backdraft Damper for A3-D Housing
		1 - Cooling Thermostat and Relay (Not req for evap)
		1 - Condenser Support for Size 3, 15 Ton Mod Package Unit
		1 - Extra Set of Belts
		1 - 15 Ton 3 Circuit (5/5/5) Modular Packaged AC Cooling Option for Size 3 MUA (2250 to 4800 cfm), 208V, 3 phase. Cooling Thermostat or Programmable Stat Required for Proper Operation.
		1 - Double Wall Steel Liner - Size 3 Unit
		1 - Freezestat (10)
		1 - MPU3-15-AC Moisture Eliminator Option - allows cooling coil face velocity to increase to 650 fpm. Increases cooling coil max cfm to 5650 cfm.
		1 - Size 2 RTU Convenience Outlet (GFCI), 15 amp - Power Supply by Others
		1 - Commercial Smoke Detector/Alarm Interlock (Supplied by Others)
		1 - Control panel enclosure heater. Recomended for winter design temperature less than 0°F.

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All Hoods, Exhaust Fans, Tempered/Untempered Make-Up Air Units and Electrical Package to be Start-ed Up and Commissioned by Factory Field Service Technician. Start-Up Report to be Sent to Engineer by Manufacturer When Complete.

FOR QUESTIONS CALL:
BRIAN NEESAN
LOS ANGELES SALES OFFICE
REFERENCE JOB 2516893
PHONE: 310.876.8505 REGB1@CAPTIVEAIRE.COM

REVISIONS

DESCRIPTION	DATE:

CAPTIVE-AIRE
Los Angeles Office
www.captiveaire.com
Santa Fe Springs, CA. 90404 PHONE: (310) 876-8505 FAX: (919) 747-5639 EMAIL: regB1@captiveaire.com

LEE SUMMIT
Cook Mod #821
LEE'S SUMMIT, MO

DATE:
DWG.#: 2516893
DRAWN BY: BDN-81
SCALE: 3/4" = 1'-0"
Specification
SHEET NO. 1 of 8

T.E. ARNOLD & ASSOCIATES, INC.
4701 Chester Drive
Elkhart, IN 46516
State(s) Missouri
Accredited Evaluation and Inspection Agency
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STATE OF MISSOURI
GAYLORD RANSOM NUMBER E-27812
REGISTERED PROFESSIONAL ENGINEER

MCGRATH RENTCORP.
DBA KITCHENS TO GO
BY MOBILE MODULAR
DBA MOBILE MANAGEMENT CORP.
9876 WEST OLD US 30
ETNA GREEN, IN 46524

HCA MIDWEST HEALTH

FDBY LEE'S SUMMIT MEDICAL CENTER

2100 SE Blue Pkwy
Lee's Summit, MO 64063

REV.	DATE	DESCRIPTION	NAME

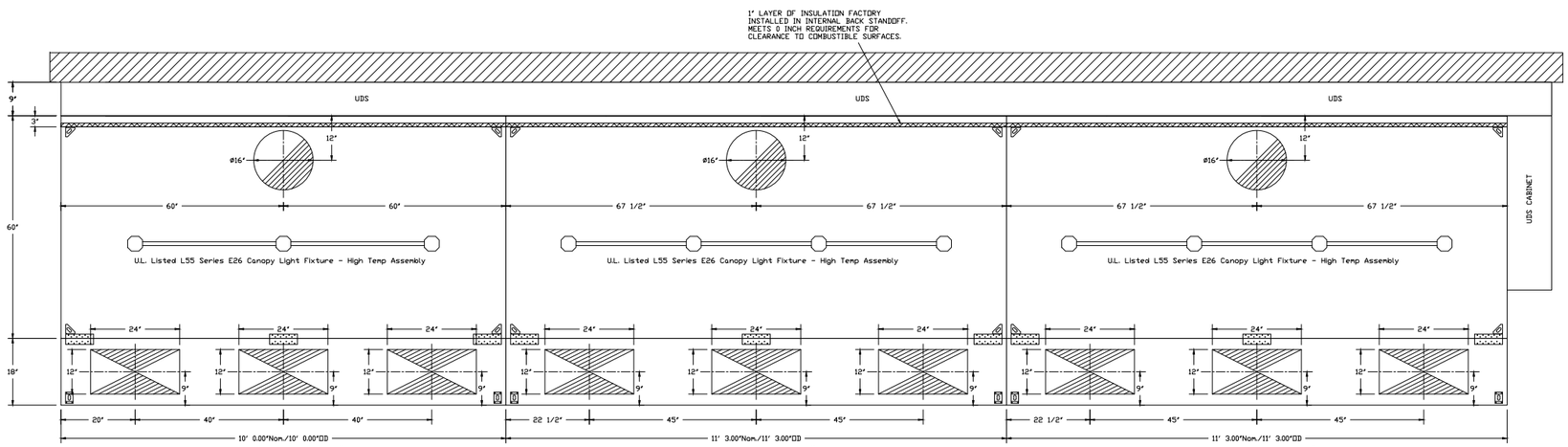
DELTA - REV -

Drawn By: MMS
Approved By: -
QUOTE NUMBER L24-050
UNIT NUMBER M820, M821, M681, M682
11x17 SCALE: N/A
22x34 SCALE: N/A

SUBMITTAL SET

Makeup Air Specifications

Sheet
(M821) M-501



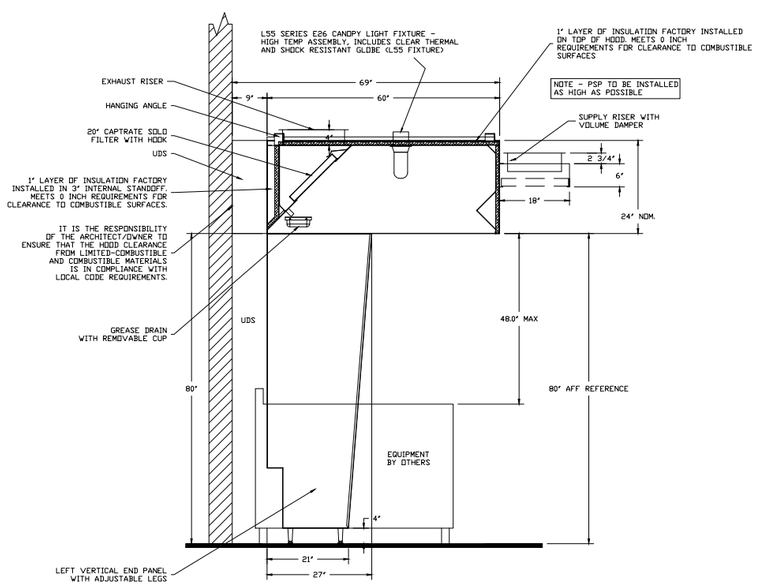
PLAN VIEW – Hood #1
10' 0.00" LONG 6024ND-2-PSP-F

PLAN VIEW – Hood #2
11' 3.00" LONG 6024ND-2-PSP-F

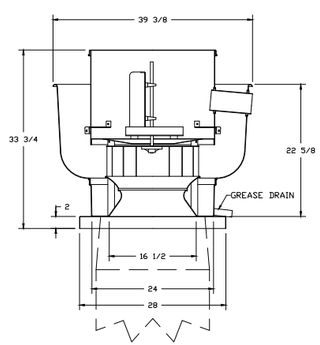
PLAN VIEW – Hood #3
11' 3.00" LONG 6024ND-2-PSP-F

Duct Temperature Sensor to be Factory Installed Into Hood Exhaust Collars. To be Field Wired to Electrical Control Panel (by others).

FANS #1, #2, #3 – NCA16FA EXHAUST FAN



SECTION VIEW – MODEL 6024ND-2-PSP-F
HOOD – #1, #2, & #3



FEATURES:

- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL705 AND UL762
- AMCA SOUND AND AIR CERTIFIED
- WIRING FROM MOTOR TO DISCONNECT SWITCH
- WEATHERPROOF DISCONNECT
- HIGH HEAT OPERATION 300°F (149°C)
- GREASE CLASSIFICATION TESTING

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

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

OPTIONS

GREASE BOX
EXTRA SET OF BELTS
FAN BASE CERAMIC SEAL – FOR GREASE DUCTS

MISSOURI PUBLIC SERVICE COMMISSION
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06/12/2025
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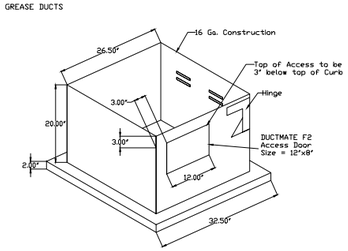

REVISIONS

DESCRIPTION	DATE

CAPTIVEAIRE
Los Angeles Office
www.captiveaire.com
Monrovia, CA, 91404 PHONE: (310) 876-8505 FAX: (919) 747-5639 EMAIL: mgd1@captiveaire.com

P.R. ARNOLD & ASSOCIATES, INC.
4702 Chester Drive
Elkhart, IN 46516
State(s) Missouri
Accredited Evaluation and Inspection Agency
This document is certified as being in conformance with State Building Codes.
Date May 13, 2025
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LEE SUMMIT
Cook Mod #821
LEE'S SUMMIT, MO

DATE:
DWG.#: 2516893
DRAWN BY: BDN-81
SCALE: 3/4" = 1'-0"
Specification
SHEET NO. 2 of 8

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SUBMITTAL SET

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PROFESSIONAL ENGINEER

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ETNA GREEN, IN 46524

HCA MIDWEST HEALTH

FDBY LEE'S SUMMIT MEDICAL CENTER

2100 SE Blue Pkwy
Lee's Summit, MO 64063

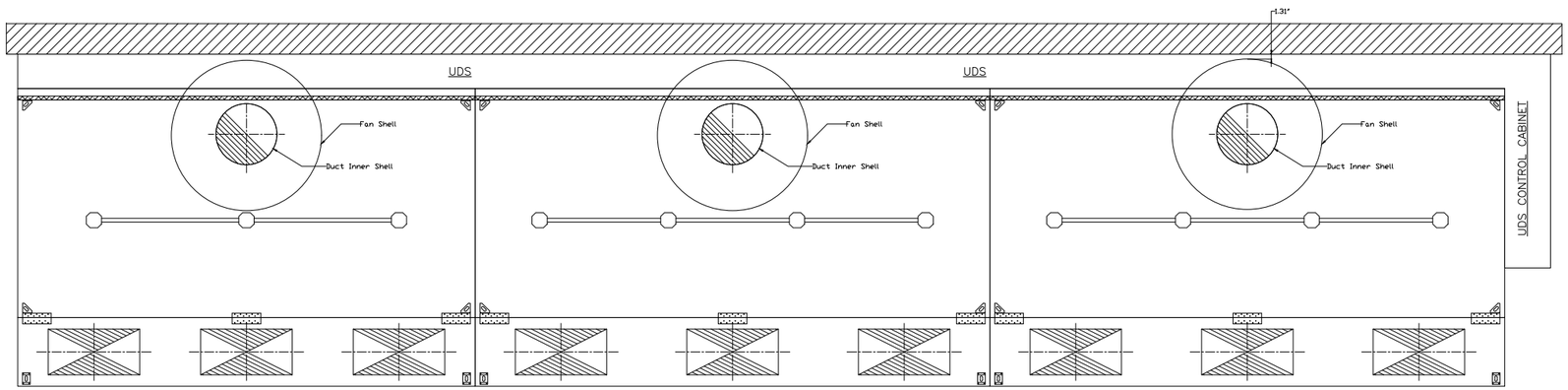
REV.	DATE	DESCRIPTION	NAME

DELTA - REV -

Drawn By: MMS	Approved By: -
QUOTE NUMBER L24-050	UNIT NUMBER M820, M821, M681, M682
11x17 SCALE: N/A	
22x34 SCALE: N/A	

Exhaust Hood Plan & Specifications

Sheet
(M821) M-502



PLAN VIEW – Hood #1
10' 0.00" LONG 6024ND-2-PSP-F

PLAN VIEW – Hood #2
11' 3.00" LONG 6024ND-2-PSP-F

PLAN VIEW – Hood #3
11' 3.00" LONG 6024ND-2-PSP-F

MISSOURI PUBLIC SERVICE COMMISSION

APPROVED

06/12/2025

MANUFACTURED HOUSING

REVISIONS

	DESCRIPTION	DATE:
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CAPTIVEAIRE

Los Angeles Office

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Accredited Evaluation and Inspection Agency
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Date May 13, 2025
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LEE SUMMIT
Cook Mod #821
LEE'S SUMMIT, MO

DATE:

DWG.#: 2516893

DRAWN BY: BDN-81

SCALE: 3/4" = 1'-0"

Specification

SHEET NO. 3 of 8

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NUMBER E-27812
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ETNA GREEN, IN 46524

HCA MIDWEST HEALTH

FDBY LEE'S SUMMIT MEDICAL CENTER

2100 SE Blue Pkwy
Lee's Summit, MO 64063

REV.	DATE	DESCRIPTION	NAME

DELTA - REV -

Drawn By: MMS	Approved By: -
QUOTE NUMBER L24-050	UNIT NUMBER M820, M821, M681, M682

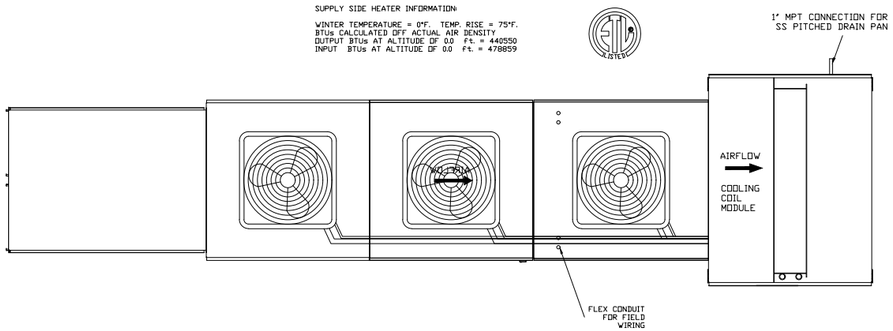
11x17 SCALE: N/A
22x34 SCALE: N/A

Exhaust Hood Plan & Specifications

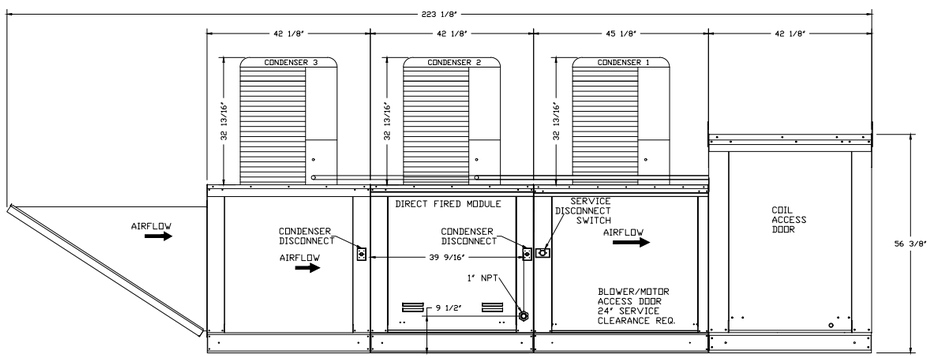
Sheet
(M821) M-503

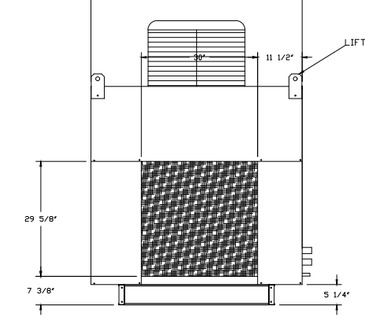
SUPPLY SIDE HEATER INFORMATION:

WINTER TEMPERATURE = 0°F. TEMP. RISE = 75°F.
BTUs CALCULATED OFF ACTUAL AIR DENSITY
OUTPUT BTUs AT ALTITUDE OF 0.0 ft. = 440550
INPUT BTUs AT ALTITUDE OF 0.0 ft. = 478859

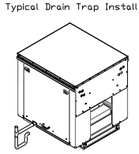


FAN #5 A3-D.500-G18-MPU - HEATER
1. GAS HEATER NOT USED.
2. INTAKE HOOD WITH EZ FILTERS
3. SIDE DISCHARGE - AIR FLOW RIGHT -> LEFT
4. LOW FIRE START. ALLOWS THE BURNER CIRCUIT TO ENERGIZE WHEN THE MODULATION CONTROL IS IN A LOW FIRE POSITION.
5. GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE
6. GAS PRESSURE GAUGE, -5 TO +15 INCHES WC, 2.5" DIAMETER, 1/4" THREAD SIZE
7. FULL CRATING FOR COMMERCIAL HEATERS FOR SHIPPING.
8. MOTORIZED BACK DRAFT DAMPER 30" X 30" FOR SIZE 3 STANDARD & MODULAR DIRECT FIRED HEATERS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, NF BUP-S ACTUATOR INCLUDED
9. DX COOLING INTAKE AIR THERMOSTAT AND RELAYS MOUNTED IN UNIT - SET POINT FOR THERMOSTAT SHOULD BE 85°F.
10. SUPPORT SHELL FOR SIZE 3 MODULAR PACKAGE UNIT FOR THIRD CONDENSER. INCLUDES CONTROL VESTIBULE. INCLUDES CONDENSER SUPPORTS. DOES NOT INCLUDE RETURN AIR OR INLET AIR DAMPER.
11. EXTRA SET OF V-BELTS. ONLY TO BE ORDERED AS FAN OPTION AT TIME FAN IS ORDERED.
12. 15 TON, 3 CIRCUIT (5/5/5) MODULAR PACKAGED AC COOLING OPTION FOR SIZE 3 MODULAR PACKAGED UNIT. INCLUDES CONDENSER, DX COIL, FILTER/DRYER KIT, HARD START KIT, THERMAL EXPANSION VALVE, R410A REFRIGERANT, AND REFRIGERANT PIPING. (2250 TO 4800 CFM) NOT BUILT WITH OPPOSITE SIDE CONTROLS OR OPPOSITE AIRFLOW DIRECTION. CONDENSERS REQUIRE SEPARATE 208V, 3 PHASE POWER SUPPLY. COIL = 3EY1403T
13. DOUBLE WALL STEEL LINER. INCLUDES ROOF, FLOOR, AND DOORS DOUBLE WALL LINERS
14. FREEZESTAT WITH 10' SENSOR. FACTORY SET AT 35°F AND 10 MINUTES.
15. MPU3-15-AC MOISTURE ELIMINATOR OPTION - ALLOWS COOLING COIL FACE VELOCITY TO INCREASE TO 650 FPM. INCREASES COOLING COIL MAX CFM TO 3650 CFM.
16. GFCI 15 AMP CONVENIENCE OUTLET FOR HEATER ENCLOSURE. POWER SUPPLY BY OTHERS - INCLUDES RECEPTACLE AND J BOX.
17. COMMERCIAL SMOKE DETECTOR INTERLOCK (DETECTOR BY OTHERS)
18. CONTROL PANEL ENCLOSURE HEATER. INCLUDES 200V, 120V HEATER AND THERMOSTAT (10 DEGREE SETTING). REQUIRES CONVENIENCE OUTLET OPTION (POWER BY OTHERS). RECOMMENDED FOR WINTER DESIGN TEMPERATURE LESS THAN 0°F.

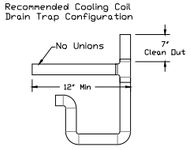




Typical Drain Trap Install

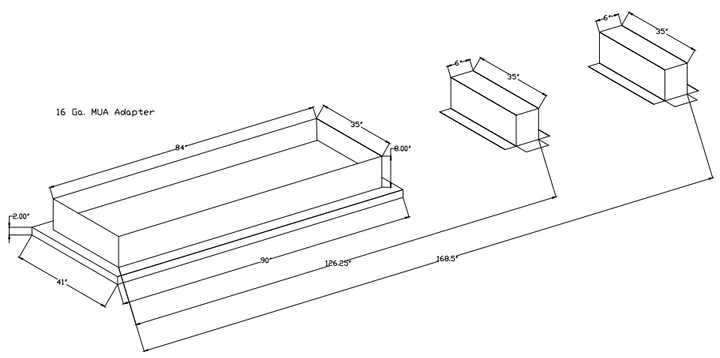


Recommended Cooling Coil Drain Trap Configuration



Notes:
1) 1" diameter PVC Pipe only
2) Use only low profile couplings
3) Add clean out as shown

16 Ga. MUA Adapter



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06/12/2025

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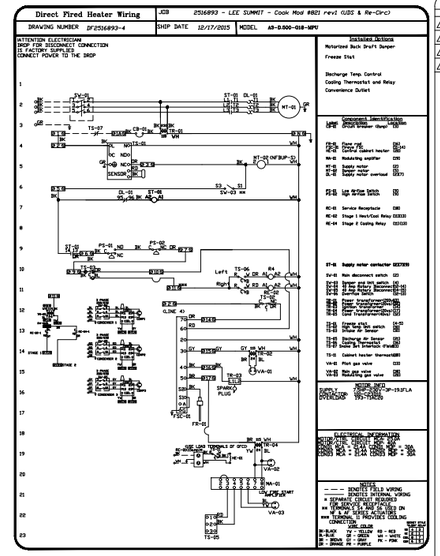

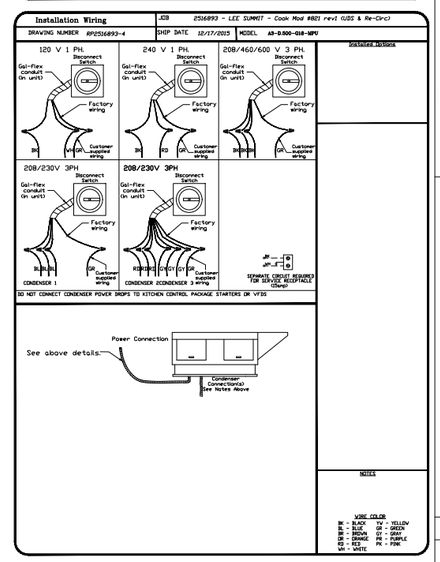

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5		

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www.captiveaire.com
Los Angeles, CA. 90404 PHONE: (310) 876-8505 FAX: (919) 747-5639 EMAIL: rep81@captiveaire.com

LEE SUMMIT
Cook Mod #821
LEE'S SUMMIT, MO

DATE:

DWG.#: 2516893

DRAWN BY: BDN-81

SCALE: 3/4" = 1'-0"

Specification

SHEET NO. 4 of 8

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470 Chester Drive
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Accredited Evaluation and Inspection Agency
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HCA MIDWEST HEALTH

FDBY LEE'S SUMMIT MEDICAL CENTER

2100 SE Blue Pkwy
Lee's Summit, MO 64063

REV.	DATE	DESCRIPTION	NAME

DELTA - REV -

Drawn By: MMS
Approved By: -
QUOTE NUMBER L24-050
UNIT NUMBER M820, M821, M681, M682
11x17 SCALE: N/A
22x34 SCALE: N/A

Exhaust Fan & MUA Specs

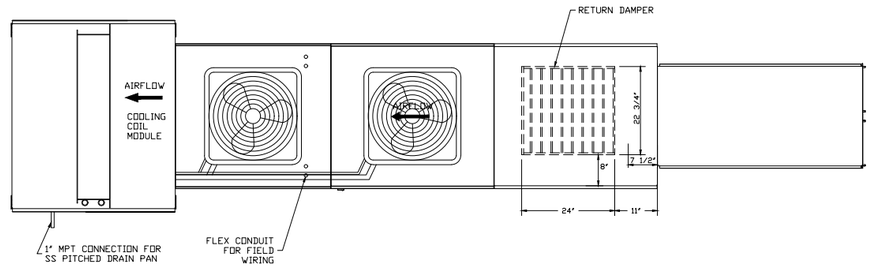
SUBMITTAL SET

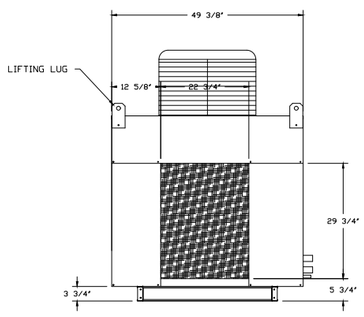
Sheet
(M821) M-504

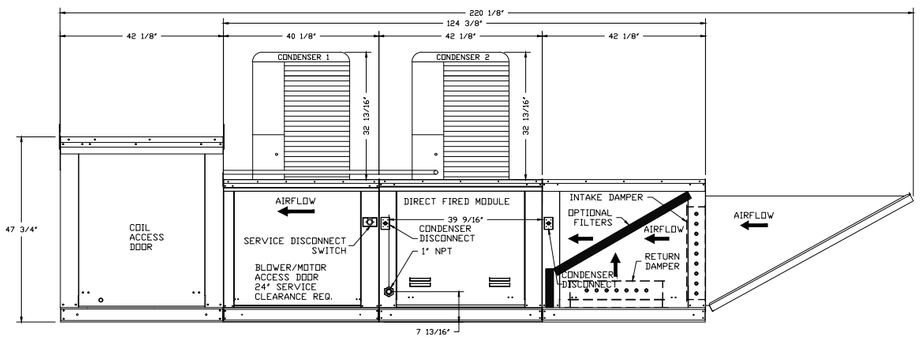
SUPPLY SIDE HEATER INFORMATION:

WINTER TEMPERATURE = 0°F. TEMP. RISE = 75°F.
BTUs CALCULATED OFF ACTUAL AIR DENSITY
OUTPUT BTUs AT ALTITUDE OF 0.0 ft. = 196245
INPUT BTUs AT ALTITUDE OF 0.0 ft. = 213310

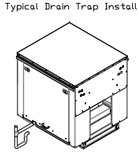
FAN #4 A2-D.250-G15-R-MPU - HEATER
1. GAS HEATER NOT USED
2. INTAKE HOOD WITH EZ FILTERS
3. SIDE DISCHARGE - AIR FLOW RIGHT -> LEFT
4. MOTORIZED BACK DRAFT DAMPER 22.75" X 24" FOR SIZE 2 STANDARD & MODULAR DIRECT FIRED HEATERS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE. LF1205 ACTUATOR INCLUDED
5. GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE
6. GAS PRESSURE GAUGE, -5 TO +15 INCHES WC., 2.5" DIAMETER, 1/4" THREAD SIZE
7. FULL CRATING FOR COMMERCIAL HEATERS FOR SHIPPING.
8. 10 TON, DUAL CIRCUIT (5/5) MODULAR PACKAGED AC COOLING OPTION FOR SIZE 2 MODULAR PACKAGED UNIT. INCLUDES CONDENSER, DX COIL, FILTER/DRYER KIT, THERMAL EXPANSION VALVE, R410A REFRIGERANT, AND REFRIGERANT PIPING. (1500 TO 3,000 CFM) NOT BUILT WITH OPPOSITE SIDE CONTROLS OR OPPOSITE AIRFLOW DIRECTION. CONDENSERS REQUIRE SEPARATE 208V, 3 PHASE POWER SUPPLY. COIL = 3EY1203
9. DOUBLE WALL STEEL LINER. INCLUDES ROOF, FLOOR, AND DOORS DOUBLE WALL LINERS
10. EXTRA SET OF V-BELTS. ONLY TO BE ORDERED AS FAN OPTION AT TIME FAN IS ORDERED.
11. PROFILE PLATE CONFIGURATION FOR SIZE 2 DIRECT FIRED UNIT FOR LOW CFM APPLICATIONS.
12. GFCI 15 AMP CONVENIENCE OUTLET FOR HEATER ENCLOSURE. POWER SUPPLY BY OTHERS - INCLUDES RECEPTACLE AND J BOX.
13. CONTROL PANEL ENCLOSURE HEATER, INCLUDES 200W, 120V HEATER AND THERMOSTAT (10 DEGREE SETTING). REQUIRES CONVENIENCE OUTLET OPTION (POWER BY OTHERS). RECOMENDED FOR WINTER DESIGN TEMPERATURE LESS THAN 0°F.
14. COMMERCIAL SMOKE DETECTOR INTERLOCK (DETECTOR BY OTHERS)
15. MIXING BOX FOR SIZE 2 MODULAR SUPPLY FAN. 2-POSITION ACTUATOR CONTROL. CONTROLLED BY 365 DAY STAT. SPRING RETURN TO OUTSIDE AIR POSITION.
16. FREEZESTAT WITH 10' SENSOR AND LOW TEMP INDICATOR ON 365 DAY STAT. FACTORY SET AT 35°F AND 10 MINUTES.
17. VAV (VARIABLE-AIR-VOLUME) WIRING PACKAGE FOR COMMERCIAL FANS WITH FREQUENCY DRIVE.
PRESET SPEED OR SPEED REFERENCE VARIABLE FREQUENCY DRIVE INPUT FIELD WIRED
18. VFD FACTORY MOUNTED AND WIRED ON UNIT CONTROL PANEL.
19. MERV 8 FILTER OPTION FOR SIZE 2 MIXING BOX. MIXING BOX OR CONDENSER SUPPORT MUST BE SELECTED FOR THIS OPTION. USES 2 20 X 25 X 2 INCH FILTERS AND 1 16 X 25 X 2 INCH FILTERS.



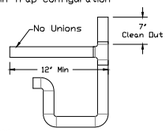




Typical Drain Trap Install

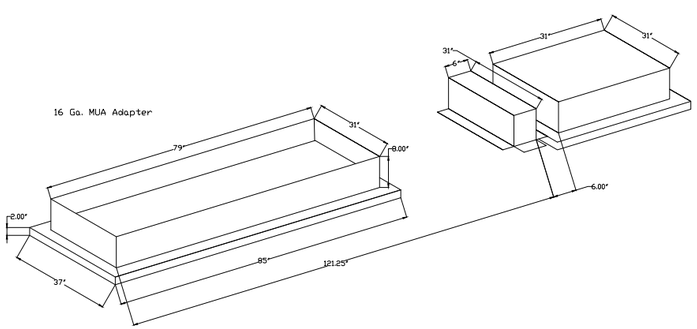


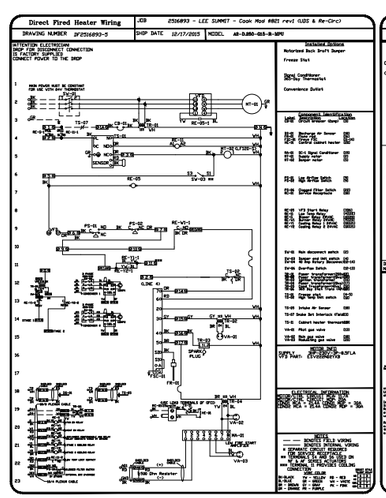
Recommended Cooling Coil Drain Trap Configuration

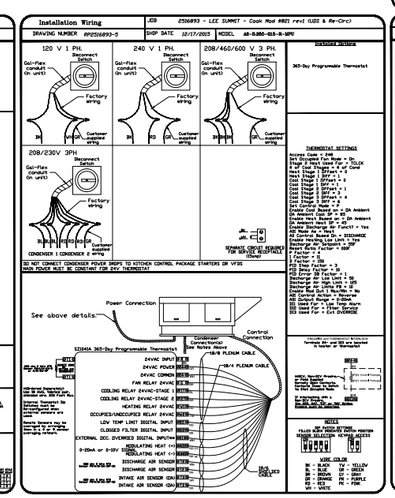


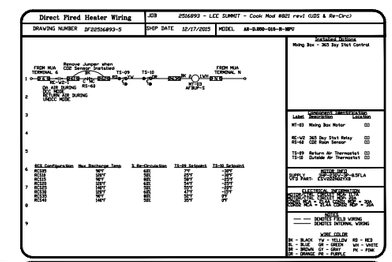
Notes:
1) 1" diameter PVC Pipe only
2) Use only low profile couplings
3) Add clean out as shown

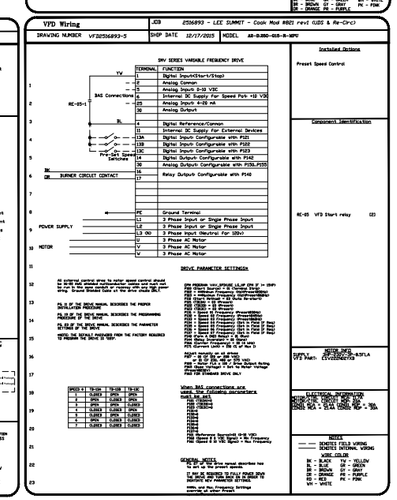
16 Ga. MUA Adapter











MISSOURI PUBLIC SERVICE COMMISSION

APPROVED

06/12/2025

MANUFACTURED HOUSING

REVISIONS

DESCRIPTION	DATE

CAPTIVEAIRE
Los Angeles Office
www.captiveaire.com
PHONE: (310) 876-8505 FAX: (919) 747-5639 EMAIL: regs1@captiveaire.com

T.L. ARNOLD & ASSOCIATES, INC.
470 Chester Drive
Elkhart, IN 46516
State(s) Missouri
Accredited Evaluation and Inspection Agency
This document is certified as being in conformance with State Building Codes.
Date May 13, 2025
Approval of this document does not authorize or approve the commission or deviation from the requirements of applicable State Laws.

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STATE OF MISSOURI
GAYLORD RANSOM NUMBER E-27812
PROFESSIONAL ENGINEER

MCGRATH RENTCORP.
DBA KITCHENS TO GO
BY MOBILE MODULAR
DBA MOBILE MANAGEMENT CORP.
9876 WEST OLD US 30
ETNA GREEN, IN 46524

HCA MIDWEST HEALTH

FDBY LEE'S SUMMIT MEDICAL CENTER

2100 SE Blue Pkwy
Lee's Summit, MO 64063

LEE SUMMIT
Cook Mod #821
LEE'S SUMMIT, MO

SUBMITTAL SET

REV.	DATE	DESCRIPTION	NAME

DELTA - REV -

DATE:

DWG.#: 2516893

DRAWN BY: BDN-81

SCALE: 3/4" = 1'-0"

Specification

SHEET NO. 5 of 8

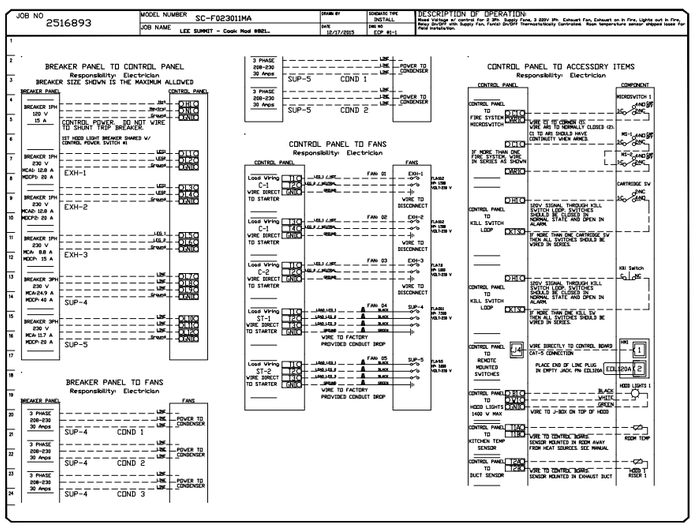
Drawn By: MMS
Approved By: -
QUOTE NUMBER: L24-050
UNIT NUMBER: M820, M821, M681, M682
11x17 SCALE: N/A
22x34 SCALE: N/A

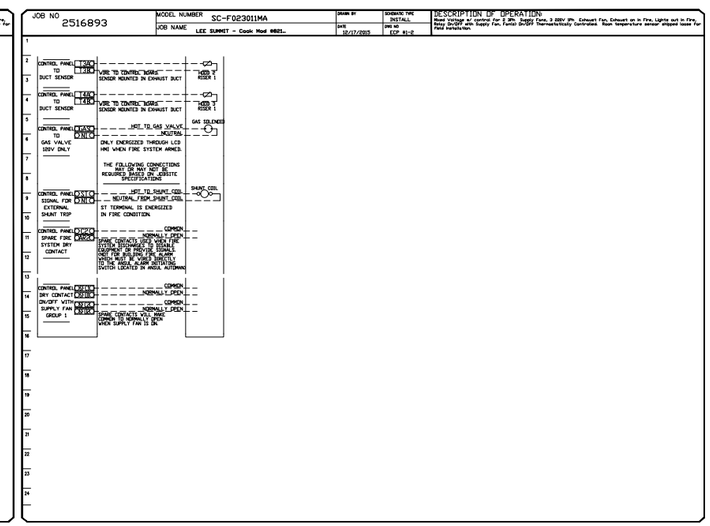
Exhaust Fan & MUA Specs

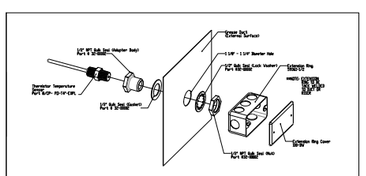
Sheet
(M821) M-505

ELECTRICAL PACKAGES – Job#2516893

NO.	TAG	PACKAGE #	LOCATION	SWITCHES LOCATION	SWITCHES QUANTITY	OPTION	FANS CONTROLLED TYPE	Ø	HP.	VOLT	FLA
1		SC-F023011MA	UDS	UDS	1 Light 1 Fan	Smart Controls Thermostatic Control w/ Relay On/Off with Supply	Exhaust	1	1.000	230	7.0
							Exhaust	1	1.500	230	10.2
							Exhaust	1	1.500	230	10.2
							Supply	3	3.000	230	8.5
							Supply	3	7.500	230	19.1

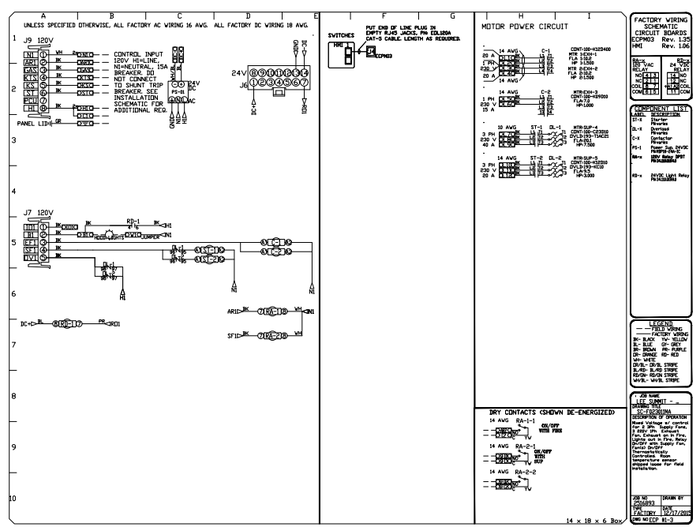


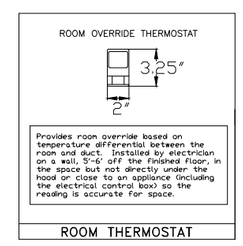




DUCT THERMISTOR DETAIL

Duct Temperature Sensor to be Factory Installed Into Hood Exhaust Collars. To be Field Wired to Electrical Control Panel (by others).





ROOM THERMOSTAT

Room Temperature Sensor to be Provided with Control Pacakge. To be Field Installed in Kitchen Module (by others).

MISSOURI PUBLIC SERVICE COMMISSION

APPROVED

06/12/2025

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REVISIONS

DESCRIPTION	DATE:

CAPTIVEAIRE

www.captiveaire.com

Los Angeles Office

90404 PHONE: (310) 876-8505 FAX: (919) 747-5639 EMAIL: reg81@captiveaire.com

1811 Pontius Ave., Suite 214, Santa Monica

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470 Chester Drive
Elkhart, IN 46516
State(s) Missouri
Accredited Evaluation and Inspection Agency
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Date May 13, 2025
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LEE SUMMIT
Cook Mod #821
LEE'S SUMMIT, MO

DATE:

DWG.#: 2516893

DRAWN BY: BDN-81

SCALE: 3/4" = 1'-0"

Specification

SHEET NO. 6 of 8

SUBMITTAL SET

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FDBY LEE'S SUMMIT MEDICAL CENTER

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Lee's Summit, MO 64063

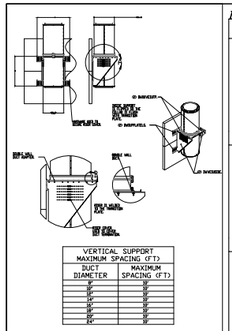
REV.	DATE	DESCRIPTION	NAME

DELTA - REV -

Drawn By: MMS
Approved By: -
QUOTE NUMBER: L24-050
UNIT NUMBER: M820, M821, M681, M682
11x17 SCALE: N/A
22x34 SCALE: N/A

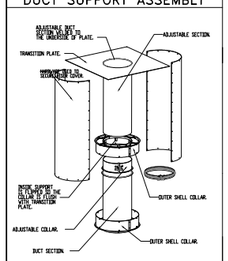
Control Panel

Sheet
(M821) M-506

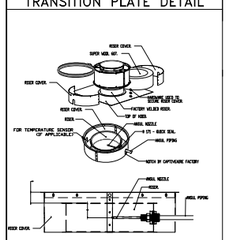


VERTICAL SUPPORT MAXIMUM SPACING (FT)	
DUCT DIAMETER	MAXIMUM SPACING (FT)
8"	8'
9"	8'
10"	8'
12"	8'
14"	8'
16"	8'
18"	8'
20"	8'
24"	8'

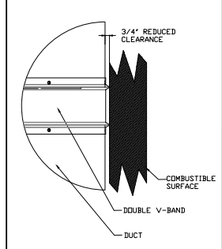
DUCT SUPPORT ASSEMBLY



TRANSITION PLATE DETAIL



OUTER DUCT BAND DETAIL



REDUCED CLEARANCE DETAIL

1. DUCT RUN TO BE FIELD VERIFIED, PARTS SUBJECT TO CHANGE
2. DUCT RUNS TO HAVE CLEANOUTS EVERY 10', AND EVERY CHANGE OF DIRECTION UNLESS SPECIFIED OTHERWISE.
3. VERTICAL HANGING SUPPORTS TO BE EVERY 10', HORIZONTAL SUPPORTS TO BE EVERY 7' FOR INNER DUCT DIA 8" TO 16" AND EVERY 5' FOR INNER DUCT DIA 18" TO 24".
4. ADJUSTABLE DUCT OVERLAP TO BE NO LESS THAN 6", UNLESS INNER DIAMETER IS 8" (4" OVERLAP) OR 10" (5" OVERLAP).
5. 3/4" CLEARANCE TO COMBUSTIBLES IS FROM OUTER SHELL. V-BAND IS LISTED TO BE AGAINST SURFACE.

DUCTWORK NOTES

DuctWork #1 Parts – Job#2516893 (3) Duct Runs

Hood #	Tag	Part #	CFM	S.P.	Weight	Velocity	QTY	Description
HOOD #1	P1	DW1635DWLT-2R-S Custom Length 25.25'	2750	-0.018	59.10	1969.54	1	Double Wall Duct - 16' Inner Duct, 35' long - 2 Layers Reduced Clearance - 20' Stainless Steel Outer Shell.
	P2	DW1630AJDKIT	2750	-0.01	19.53	1969.54	1	Single Wall Duct Adjustable, 16' diameter, 29.5' long, flange at one end With a 16' Adjustable Collar - Stainless Steel.
	P3	DW1603LT	2750	-0.002	12.40	1969.54	1	Single Wall Duct 16' diameter, 3' long, flange at both ends. Stainless Steel.
	P4	DW2616TPDBEX	2750	0	9.00	1969.54	1	Duct to Curb Transition 3/4' Down Turn, 26.5' Curb to 16' Duct, 16 GA Aluminized. Used on NCA16FA / NCA16HPFA & NCA18FA / NCA18HPFA. Transition Plate DD is 27.00' Designed For Use With Exhaust Fan. Non-Standard Part.
	System at P4		2750	-1.107				
HOOD #2	P5	DW1635DWLT-2R-S Custom Length 28.0'	2750	-0.018	59.10	1969.54	1	Double Wall Duct - 16' Inner Duct, 35' long - 2 Layers Reduced Clearance - 20' Stainless Steel Outer Shell.
	P6	DW1630AJDKIT	2750	-0.01	19.53	1969.54	1	Single Wall Duct Adjustable, 16' diameter, 29.5' long, flange at one end With a 16' Adjustable Collar - Stainless Steel.
	P7	DW1603LT	2750	-0.002	12.40	1969.54	1	Single Wall Duct 16' diameter, 3' long, flange at both ends. Stainless Steel.
	P8	DW2616TPDBEX	2750	0	9.00	1969.54	1	Duct to Curb Transition 3/4' Down Turn, 26.5' Curb to 16' Duct, 16 GA Aluminized. Used on NCA16FA / NCA16HPFA & NCA18FA / NCA18HPFA. Transition Plate DD is 27.00' Designed For Use With Exhaust Fan. Non-Standard Part.
	System at P8		2750	-1.107				
HOOD #3	P9	DW1635DWLT-2R-S Custom Length 27.25'	2450	-0.014	59.10	1754.68	1	Double Wall Duct - 16' Inner Duct, 35' long - 2 Layers Reduced Clearance - 20' Stainless Steel Outer Shell.
	P10	DW1630AJDKIT	2450	-0.008	19.53	1754.68	1	Single Wall Duct Adjustable, 16' diameter, 29.5' long, flange at one end With a 16' Adjustable Collar - Stainless Steel.
	P11	DW1603LT	2450	-0.001	12.40	1754.68	1	Single Wall Duct 16' diameter, 3' long, flange at both ends. Stainless Steel.
	P12	DW2616TPDBEX	2450	0	9.00	1754.68	1	Duct to Curb Transition 3/4' Down Turn, 26.5' Curb to 16' Duct, 16 GA Aluminized. Used on NCA16FA / NCA16HPFA & NCA18FA / NCA18HPFA. Transition Plate DD is 27.00' Designed For Use With Exhaust Fan. Non-Standard Part.
	System at P12		2450	-0.896				
MISC Parts		3M-2000PLUS			0.80		4	Duct - 3M Fire Barrier 2000 Plus Silicone - Used as sealant to Seal Duct Joints.
		DW16CLASY			1.50		6	Duct 'V' Clamp, 16' Duct, Assembly.
		DW16DWCLASY-2R-S			8.49		3	Duct - 16' Duct - 20' Double 'V' Clamp - 2R Insulation & Single 'V' Clamp Included - Reduced Clearance.
		DW16DWECASY-2			3.33		3	Double Wall Duct End Cap Assembly - 16' Duct 2 Layers 21' DD - Includes DW20CLASY - Used To Seal Double Wall When Connecting To Single Wall Duct.
		DW20DWRISER-2R-S			10.53		3	Double Wall Riser Cover - Used On 16' Inner Riser, 4' long - 2 Layers Reduced Clearance - 20' Stainless Steel Outer Riser Shell Assembly. Includes Insulation & Single V Clamps For Inner & Outer Connections.
	Additional Parts							
		DW16DWCLASY-2R-S			8.49		3	Duct - 16' Duct - 20' Double 'V' Clamp - 2R Insulation & Single 'V' Clamp Included - Reduced Clearance.
	Total Weight				404.81			

Furnish double wall, factory built grease duct for use with Type I kitchen hoods, which conforms to the requirements of NFPA-96. Products shall be ETL listed to UL-1978 and UL-2221 for venting air and grease vapors from commercial cooking operation. Models DW-2R, 3R and 3Z are used for grease duct applications when installed in accordance with these instructions and National Fire Protection Association 'NFPA 96'; Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations. Double wall grease ducts are listed for a continuous internal temperature of 500 degrees F and intermittent temperatures of 2000 degrees F.

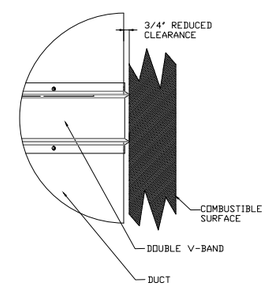
The duct sections shall be constructed of an inner duct wall and an outer wall with insulation in between. The inner duct wall shall be constructed of .036 inch thick, 430 type stainless steel and be available in diameters 8' through 24'. The outer wall shall be constructed of stainless steel at a minimum of .024 inch thickness. The duct, based on model number, shall include layers of Super Wool 607 Plus insulation between the inner and outer wall. Grease duct joints shall be held together by means of formed V clamps and sealed with 3M Fire Barrier 2000+. The duct wall assembly shall be tested and listed at ¾' or zero inch clearance, according to classifications.

Classifications and Clearances

UL 2221: Standard for Fire Resistive Grease Duct Enclosure Assemblies. Chapter 7 of this standard references a test labeled Internal Fire Test. Section 7.1.1 references two installation conditions, Condition A and Condition B. Condition A represents all installation condition except for installation within non-ventilated combustible enclosures. Condition B represents installation within a non-ventilated combustible enclosure.

Model DW-2R is classified under UL2221 (Test of Fire Resistive Duct Enclosure Assemblies) as an alternate to 2-Hr. fire resistive shaft enclosures with a reduced clearance to combustibles (sizes 8' to 16' diameter). Model 2R is listed in accordance with the requirements for duct enclosure Condition B.

Reduced Clearance Detail



MISSOURI PUBLIC SERVICE COMMISSION

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06/12/2025

MANUFACTURED HOUSING

REVISIONS

DESCRIPTION	DATE

CAPTIVEAIRE

Los Angeles Office

1810 6th Street, Suite 215, Santa Monica, CA 90404 PHONE: (310) 876-8505 FAX: (818) 747-5639 E-MAIL: negf@captiveaire.com

www.captiveaire.com

LEE SUMMIT

Cook Mod #821

LEE'S SUMMIT, MO

DATE:

DWG.#: 2516893

DRAWN BY: BDN-81

SCALE: 3/4" = 1'-0"

Specification

SHEET NO. 7 of 8

T.G. ARNOLD & ASSOCIATES, INC.
470 Chester Drive
Elkhart, IN 46516
State(s) Missouri
Accredited Evaluation and Inspection Agency
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Date May 13, 2025
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STATE OF MISSOURI GAYLORD RANSOM NUMBER E-27812 REGISTERED PROFESSIONAL ENGINEER

MCGRATH RENTCORP.
DBA KITCHENS TO GO
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9876 WEST OLD US 30
ETNA GREEN, IN 46524

HCA MIDWEST HEALTH

FDBY LEE'S SUMMIT MEDICAL CENTER

2100 SE Blue Pkwy
Lee's Summit, MO 64063

REV.	DATE	DESCRIPTION	NAME

DELTA - REV -

Drawn By: MMS
Approved By: -

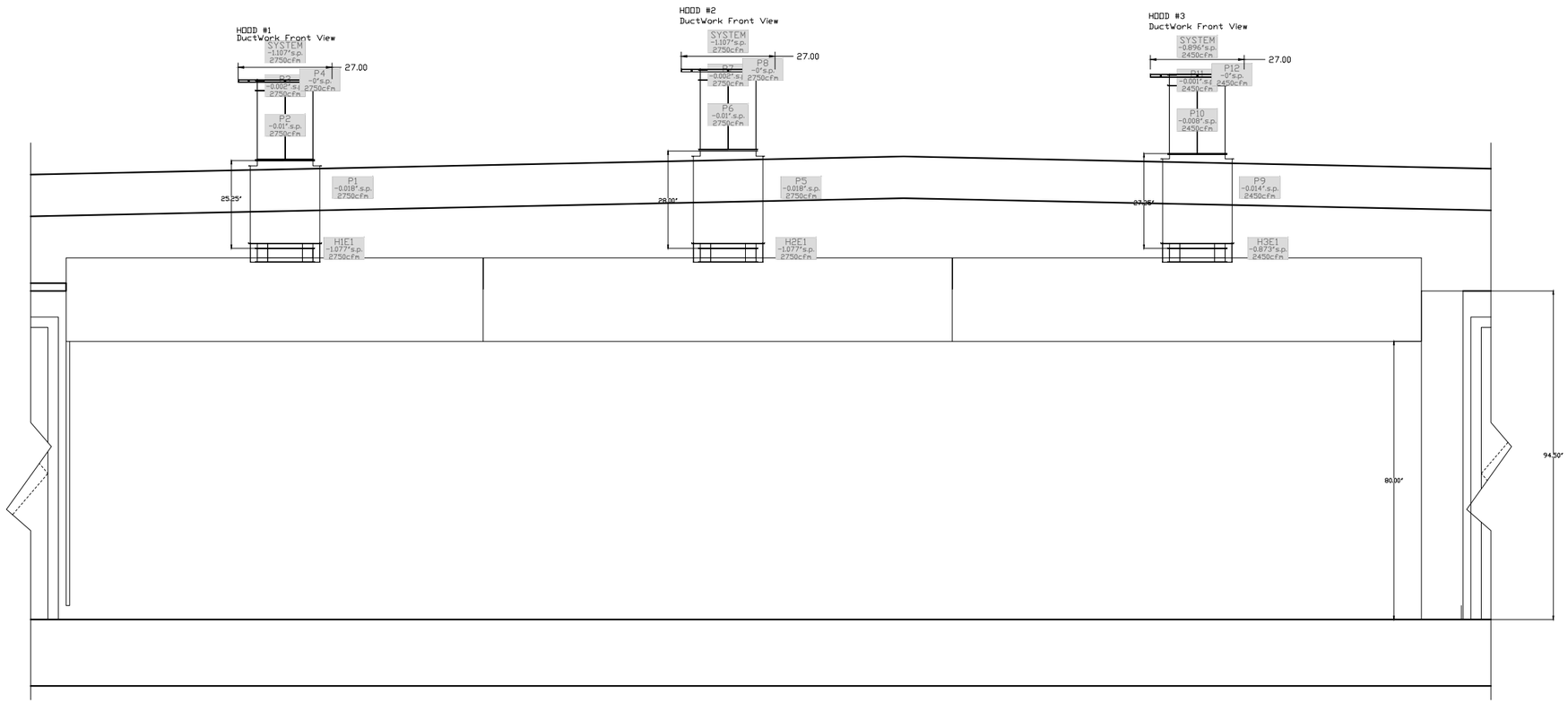
QUOTE NUMBER: L24-050
UNIT NUMBER: M820, M821, M681, M682

11x17 SCALE: N/A
22x34 SCALE: N/A

MUA Ducting Specifications

Sheet

(M821) M-507



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06/12/2025

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REVISIONS

DESCRIPTION	DATE:

CAPTIVEAIRE

Los Angeles Office

18 Technology Drive, Suite 114, Irvine, California 92618 PHONE: (949) 380-9404 FAX: (949) 380-9405 EMAIL: mg@captiveaire.com www.captiveaire.com

T.R.ARNOLD & ASSOCIATES, INC.
470 Chester Drive
Elkhart, IN 46516
State(s) Missouri
Accredited Evaluation and Inspection Agency
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Date May 13, 2025
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LEE SUMMIT
Cook Mod #821
LEE'S SUMMIT, MO

DATE:

DWG.#: 2516893

DRAWN BY: BDN-81

SCALE: 3/4" = 1'-0"

Specification

SHEET NO. 8 of 8

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11x17 SCALE: N/A 22x34 SCALE: N/A	

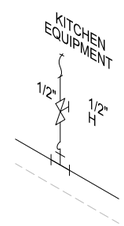
Exhaust Fan Elevation

Sheet

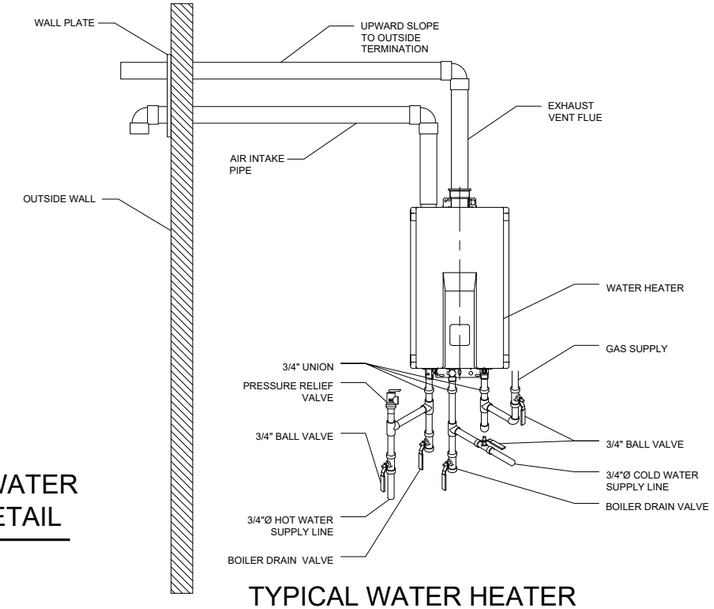
(M821) M-508

NOTES :

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT CODES AND REGULATIONS.
2. USE PEX (WHEN NOT VISUALLY EXPOSED TO INTERIOR OR EXTERIOR) OR COPPER PIPE TYPE K OR L WHEN EXPOSED TO PLUMB WATER LINES UNLESS OTHERWISE SPECIFIED.
3. ALL LINES SHALL BE ADEQUATELY SUPPORTED WITH GALV. STL. 2 HOLE STRAPS AT 3' O.C. MAX.
4. ALWAYS USE ROUND RUBBER GROMMETS WHENEVER PLUMBING LINES RUN THRU METAL PLATES, SKIN, CURB, ETC.
5. PRESSURE TEST WATER LINES (90-100 PSI) FOR LEAKS PRIOR TO EQUIPMENT FINAL CONNECTIONS.
6. FOR STORAGE: DRAIN WATER LINES.
7. EXPOSED SURFACE LINES SHALL NOT BE RUN UNLESS APPROVED BY KITCHENS TO GO BY MOBILE MODULAR.
8. FOR MOP SINK USE 8" ADJ. SERVICE SINK FAUCET WITH SHORT SPOUT AND VACUUM BREAKER.
9. WRAP ALL HOT WATER LINES WITH PIPE INSULATION.
10. PIPES TO BE RUN HORIZONTALLY UNDER THE FLOOR AS CLOSE AS POSSIBLE TO BOTTOM OF THE FLOOR EXCEPT WHERE NOTED.
11. PRESSURE AVAILABLE ON SITE TO BE MAXIMUM 55PSI - MINIMUM 40PSI.
12. FOR COLD CLIMATE LOCATION ;
    12.1. IF UNIT IS IN USE MAKE SURE THAT THE HEAT TAPE IS ALWAYS "ON"
    12.2. IF THE UNIT IS NOT IN USE OR IN STORAGE, DRAIN ALL WATER AND WASTE LINES TO AVOID DAMAGE TO PIPES DUE TO EXPOSURE TO FREEZING TEMPERATURES.
13. WHEN METAL FITTINGS (PEX) ARE EXPOSED TO METAL WALL STRUCTURAL, NEED TO ADD A THERMAL BREAK.
14. WRAP ALL HOT & COLD PIPING THAT RUNS UNDER THE FLOOR WITH PIPE INSULATION.
15. WATER HEATER TEMPERATURE CAN BE ADJUSTED FROM 120°F TO 140°F.



TYPICAL FRESH WATER CONNECTION DETAIL



TYPICAL WATER HEATER INSTALLATION DETAIL

SYM	DESCRIPTION
H	HOT WATER LINE
C	COLD WATER LINE
	PRESSURE REGULATOR
	VALVE, BRASS BALL
	TEE
	90° ELBOW
	FLEX HOSE ASSEMBLY (S.S. BRAIDED MPT x FPT SWIVEL)
	QUICK DISCONNECT
	VALVE 3-WAY
	PUMP
	VACUUM BREAKER
	REDUCER
	CHECK VALVE
	POINT OF CONNECTION
	WATER FILTRATION SYSTEM
	PENETRATION
	HOSE BIBB
	CAP
	BOILER DRAIN VALVE
	PRESSURE RELIEF VALVE
	UNION

MISSOURI PUBLIC SERVICE COMMISSION

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06/12/2025

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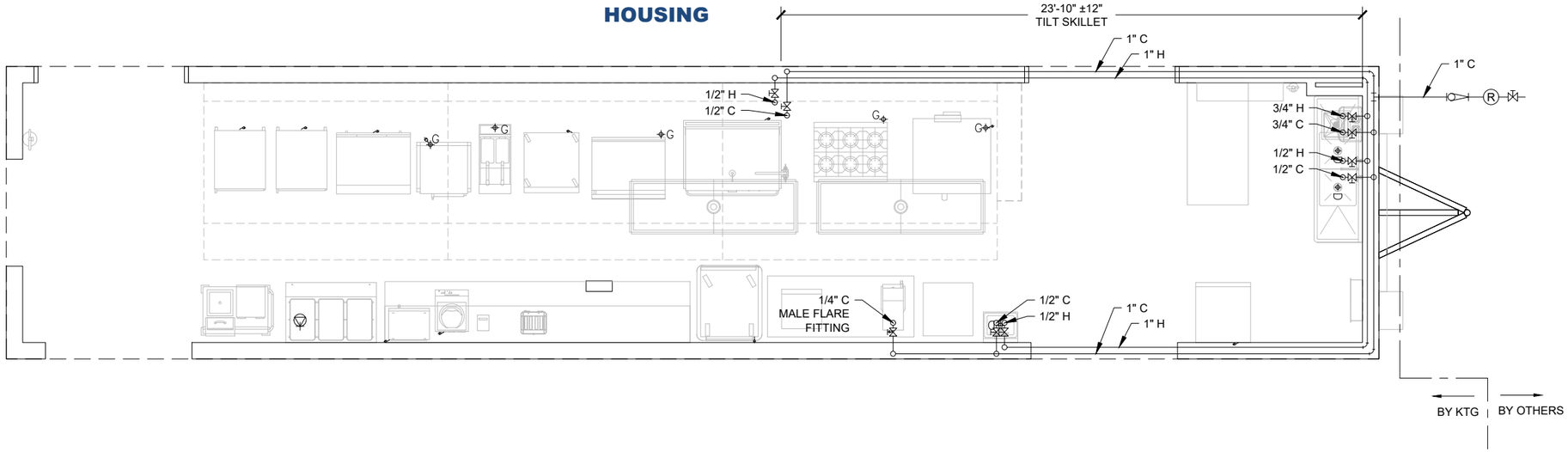

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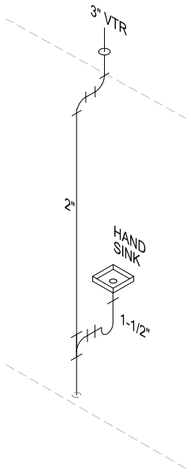
QUOTE NUMBER L24-050	UNIT NUMBER M820, M821, M681, M682

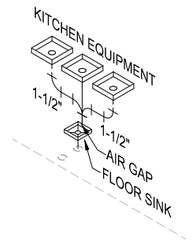
11x17 SCALE: 3/16"=1'-0"
22x34 SCALE: 3/8"=1'-0"

Fresh Water Plumbing Schematic

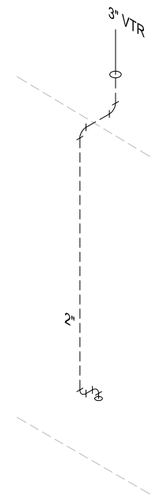
Sheet
(M821) P-601



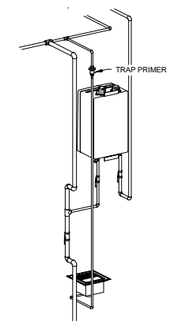
TYPICAL HAND SINK WASTE WATER DETAIL



TYPICAL WASTE WATER CONNECTION DETAIL



TYPICAL VTR WASTE WATER DETAIL



TYPICAL TRAP PRIMER DETAIL

NOTES:

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT CODES AND REGULATIONS
2. ALWAYS USE ROUND RUBBER GROMMETS WHENEVER PLUMBING LINES RUN THRU METAL PLATES, SKIN, CURBS, ETC
3. ALL LINES SHALL BE ADEQUATELY SUPPORTED WITH GALV. STL 2 HOLE STRAPS AT 3' O.C. MAX.
4. TERMINATION VENT SHALL BE MINIMUM 3 INCHES IN DIAMETER. ANY INCREASE IN THE SIZE OF THE VENT SHALL BE MADE INSIDE THE STRUCTURE A MINIMUM OF 18 INCHES BELOW THE ROOF.
5. DRAIN LINES SHALL BE CPVC DWV WHERE REQUIRED FOR HIGH TEMPERATURE EQUIPMENT, OTHERWISE USE ABS DWV, PVC DWV OR OTHER APPROVED MATERIALS.
6. SEWER LINES FROM FLOOR SINKS SHALL ALL BE SCHEDULE 40 PVC DWV OR SCHEDULE 40 ABS DWV UNLESS OTHERWISE SPECIFIED.
7. FLOOR SINKS SHALL BE MOUNTED FLUSH WITH FINISHED FLOOR.
8. EXPOSED SURFACE LINES SHALL NOT BE RUN UNLESS APPROVED BY KITCHENS TO GO BY MOBILE MODULAR.
9. PIPES TO BE RUN HORIZONTALLY UNDER THE FLOOR AS CLOSE AS POSSIBLE TO BOTTOM OF THE FLOOR EXCEPT WHERE NOTED, MAINTAINING A SLOPE OF 1/4" PER FOOT.
10. HVAC CONDENSATION LINES SHALL BE PVC OR OTHER APPROVED MATERIALS. HVAC & MUA CONDENSATION LINES TO BE CONNECTED TO AN APPROVED DRAIN SYSTEM..
11. WALK-IN COOLER CONDENSATE LINE TO DRAIN TO A APPROVED DRAIN SYSTEM.
12. CLEAN OUTS ARE TO BE READILY ACCESSIBLE ABOVE GRADE (TYP)
13. FOR STORAGE, BLOW OUT WITH COMPRESSED AIR ALL WATER LINES.
14. ALL PLUMBING CONNECTIONS UNDER THE FLOOR TO BE DONE BY G.C. CONNECTIONS UNDER THE FLOOR SHOWN AS A SUGGESTED LAYOUT ONLY.
15. FOR COLD CLIMATE LOCATION:
    a) IF UNIT IS IN USE MAKE SURE THAT HEAT TAPE IS ALWAYS ON.
    b) IF THE UNIT IS NOT IN USE OR IS IN STORAGE, DRAIN ALL WATER & WASTE LINES TO AVOID DAMAGE TO PIPES DUE TO EXPOSURE TO FREEZING TEMPERATURES.
16. INDIRECT PLUMBING MUST HAVE A MINIMUM 2" AIR GAP OR 2 TIMES THE PIPE ID, WHICHEVER IS LARGER.

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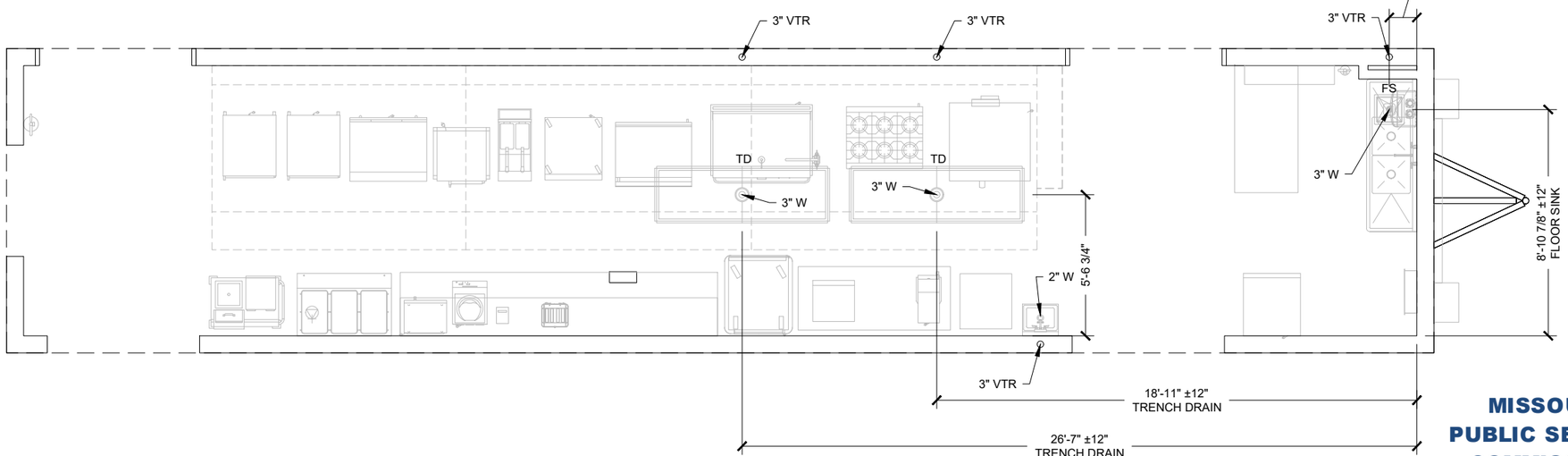

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Waste Water Plumbing Schematic

Sheet
(M821) P-602