

Farmers Alliance Mutual Insurance

McPherson, Kansas

GENERAL PROJECT NOTES:

- CONTRACTOR SHALL VISIT THE SITE OF THE PROPOSED WORK AND FULLY ACQUAINT THEMSELVES WITH THE EXISTING CONDITION SO THEY MAY FULLY UNDERSTAND THE FACILITIES, RESTRICTIONS AND ANY DIFFICULTIES RELATED TO THE EXECUTION OF THE WORK.
- THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A PROJECT SCHEDULE PRIOR TO COMMENCING CONSTRUCTION. THE PROJECT SCHEDULE SHALL BE MAINTAINED AND UPDATED ON A REGULAR BASIS THROUGHOUT THE CONSTRUCTION DURATION.
- THE CONTRACTOR SHALL MEET ALL CITY, COUNTY, STATE AND FEDERAL CODES AND REGULATIONS IN THE EXECUTION OF THIS PROJECT. ANY DISCREPANCIES FOUND BETWEEN DRAWINGS AND APPLICABLE CODES SHOULD BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT.
- ALL CONSTRUCTION MATERIALS AND ASSEMBLIES SHALL COMPLY WITH ANY AND ALL APPLICABLE CITY, COUNTY, STATE AND FEDERAL CODES AND REGULATIONS. ALL MECHANICAL, PLUMBING AND ELECTRICAL ITEMS INSTALLED, BUILDING ASSEMBLIES, AND ROOFING SYSTEMS SHALL COMPLY WITH U.L. LISTINGS REQUIRED BY THESE CODES.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS OF EXISTING CONSTRUCTION. ANY DISCREPANCIES FOUND BETWEEN THESE DIMENSIONS OR CONDITIONS AND THE DRAWINGS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT.
- DO NOT SCALE DRAWINGS - WRITTEN DIMENSIONS TAKE PRECEDENT.
- IN CASE OF DISCREPANCIES OR CONFLICTS, NOTIFY ARCHITECT IMMEDIATELY.
- ALL WOOD IN CONTACT WITH CONCRETE AND AT EXTERIOR LOCATIONS MUST BE PRESSURE TREATED MOISTURE RESISTANT AND FIRE RETARDANT WOOD.
- ALL WALL CONSTRUCTION FACING PLUMBING FIXTURE AREA MUST UTILIZE MOISTURE RESISTANT GYPSUM BOARD UNLESS OTHERWISE NOTED.
- ALL DOORS TO BE KEYLESS IN DIRECTION OF EGRESS.
- ALL MEANS OF EGRESS DOOR OPENING HARDWARE SHALL BE OPERATED BY A SINGLE HAND WITHOUT MEANS OF TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. ALL DOORS EQUIPPED WITH PANIC HARDWARE MUST MAINTAIN A 32" CLEAR WIDTH. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED:
 - A. 8.5 L.B.F. (37.7N) FOR EXTERIOR DOORS.
 - B. 5.0 L.B.F. (22.2N) FOR INTERIOR DOORS.
- DOORS SHALL SET IN MOTION WHEN SUBJECTED TO A 30 POUND FORCE & SWING TO A FULL-OPEN POSITION WHEN SUBJECTED TO A 15 POUND FORCE. FORCES SHALL BE APPLIED TO THE LATCH SIDE.
- DOORS INDICATED AS PART OF THE REQUIRED MEANS OF EGRESS SHALL HAVE HARDWARE WHICH IS READILY OPERABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY, SPECIAL KNOWLEDGE OR SPECIAL EFFORT.
- PROVIDE FIRE EXTINGUISHERS AS REQUIRED PER APPLICABLE CODES AND COORDINATE EXACT LOCATION WITH FIRE MARSHAL.

- PROVIDE AND INSTALL OCCUPANCY SIGN IN A CONSPICUOUS LOCATION IN ACCORDANCE WITH STATE & LOCAL CODES.
- ALL LIGHT SWITCHES, THERMOSTATS, SECURITY ALARMS, ELECTRICAL OUTLETS, ETC. MUST BE MOUNTED TO MEET ALL GOVERNING ACCESSIBILITY REQUIREMENTS FOR FLOOR & HEIGHT CLEARANCES AND ONE HAND GRASPING OPERATION.
- CONTROLS SUCH AS LIGHT SWITCHES, HEATING/AIR CONDITIONING CONTROLS, FIRE ALARM PULLS AND ELECTRICAL OUTLETS ARE WITHIN SPECIFIED REACH RANGES AND HAVE ADEQUATE CLEAR FLOOR SPACE FOR ACCESS. OPERABLE PARTS MUST BE OPERABLE WITH ONE HAND AND NOT REQUIRE TIGHT PINCHING OR GRASPING.
- ALL INTERIOR DIMENSIONS ARE FACE OF STUD TO FACE OF STUD, UNLESS NOTED OTHERWISE.
- REINFORCING STEEL OR STRUCTURAL FRAMEWORK OF ANY PART OF ANY BUILDING OR STRUCTURE SHALL NOT BE COVERED OR CONCEALED WITHOUT RECEIVING INSPECTION APPROVAL BY THE BUILDING DEPARTMENT. IN ADDITION TO REQUIRED ELECTRICAL, MECHANICAL AND PLUMBING INSPECTIONS, THE BUILDING PERMIT HOLDER OR HIS AGENT SHALL REQUEST THE BUILDING DEPARTMENT TO MAKE THE FOLLOWING CALLED BUILDING CONSTRUCTION INSPECTIONS:
 - a. FOUNDATION INSPECTION PRIOR TO THE POURING OF CONCRETE.
 - b. FRAME INSPECTION AFTER PIPES, CHIMNEYS AND VENTS ARE INSTALLED BUT PRIOR TO CONCEALING THE FRAMEWORK.
 - c. INSULATION AND WALL BOARD INSPECTION.
 - d. FINAL INSPECTION PRIOR TO OCCUPANCY OF THE BUILDING.
- A SET OF BUILDING PLANS AND SPECIFICATIONS APPROVED BY THE BUILDING DEPARTMENT AND MARKED "FIELD COPY" SHALL BE KEPT ON THE PROJECT DURING CONSTRUCTION UNTIL FINAL INSPECTION APPROVAL HAS BEEN MADE.
- CHANGES MADE DURING CONSTRUCTION OF A PROJECT, THAT AFFECT EXITING, WALL CONFIGURATION AND STRUCTURAL ELEMENTS THAT ARE NOT JUST "COSMETIC" REQUIRE REVISED PLANS TO BE SUBMITTED TO THE BUILDING DEPARTMENT FOR REVIEW AND APPROVAL. IF A LICENSED ARCHITECT OR ENGINEER SEALED THE ORIGINAL PLANS, THE REVISED PLANS MUST ALSO BE SEALED.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A WEATHER TIGHT SEAL FOR ALL PENETRATIONS ABOVE AND BELOW GROUND INTO BUILDING.
- DESIGN PROFESSIONALS ASSOCIATED WITH THIS PROJECT ARE NOT RESPONSIBLE FOR METHODS OF CONSTRUCTION, WORK SAFETY AND THE CONTRACTOR'S COMPLIANCE WITH CITY, COUNTY, STATE AND FEDERAL CODES AND REGULATIONS PERTAINING TO METHODS OF CONSTRUCTION AND WORK SAFETY.

- THIS SET OF DRAWINGS IS FOR A PORTION OF THE BUILDING BEING REMODELED. AREA OF WORK WILL BE DESIGNED TO MEET THE CURRENT ADOPTED BUILDING CODES. IN ADDITION WILL BE SEPARATED FROM THE REST OF THE BUILDING WITH SMOKE BARRIER AND MAINTAINED FOR THE DURATION OF THE CONSTRUCTION. THE AREA OF THE BUILDING OUTSIDE OF THIS AREA OF WORK WILL REMAIN UNTOUCHED. NO PHASING WILL BE REQUIRED.

PROJECT CONSTRUCTION SAFETY

- 2018 IFC CHAPTER 33: NO SMOKING SHALL BE ALLOWED IN THE BUILDING. ALL CONSTRUCTION DEBRIS AND TRASH SHALL BE REMOVED EACH DAY IN AN APPROVED CONTAINER OUTSIDE THE BUILDING.
- ALL NEW CONSTRUCTION WILL BE SEPARATED AND MAINTAINED FROM REST OF EXISTING BUILDING.
- ALL OPENINGS THRU RATED WALL SHALL REQUIRE FIRE RATING, REF. DOOR SCHEDULE.
- EXISTING EGRESS WILL BE MAINTAINED DURING CONSTRUCTION.
- PORTABLE FIRE EXTINGUISHERS SHALL BE PROVIDED THROUGHOUT THE NEW CONSTRUCTION AREA FOR THE DURATION OF THE PROJECT.
- PRIOR TO REMOVAL OF TEMPORARY SEPARATION WALL, COMPLETION OF WORK WILL NEED APPROVAL BY AUTHORITY HAVING JURISDICTION (AHJ), ONCE APPROVED, REMOVAL OF TEMPORARY WALL AND FINAL WORK CAN BE COMPLETED.

DRAWING INDEX:

GENERAL

G000	COVER SHEET
G001	ADA ACCESSIBILITY
CC100	CODE COMPLIANCE
CC101	CODE COMPLIANCE

ARCHITECTURAL

AD102	LEVEL 2 DEMO PLAN
A010	FINISH PLAN & SCHEDULE
A020	DOOR SCHEDULE
A102	LEVEL 2 FLOOR PLAN
A152	LEVEL 2 REFLECTED CEILING PLAN
A250	BUILDING SECTIONS
A400	ENLARGED PLANS
A500	INTERIOR ELEVATIONS
A501	INTERIOR ELEVATIONS
A550	INTERIOR SECTIONS
A551	INTERIOR SECTIONS
A600	FURNITURE PLAN & SCHEDULE

KITCHEN EQUIPMENT

K-100	FOOD SERVICE EQUIPMENT PLAN
K-200	FOOD SERVICE ELECTRICAL ROUGH-IN
K-300	FOOD SERVICE PLUMBING ROUGH-IN

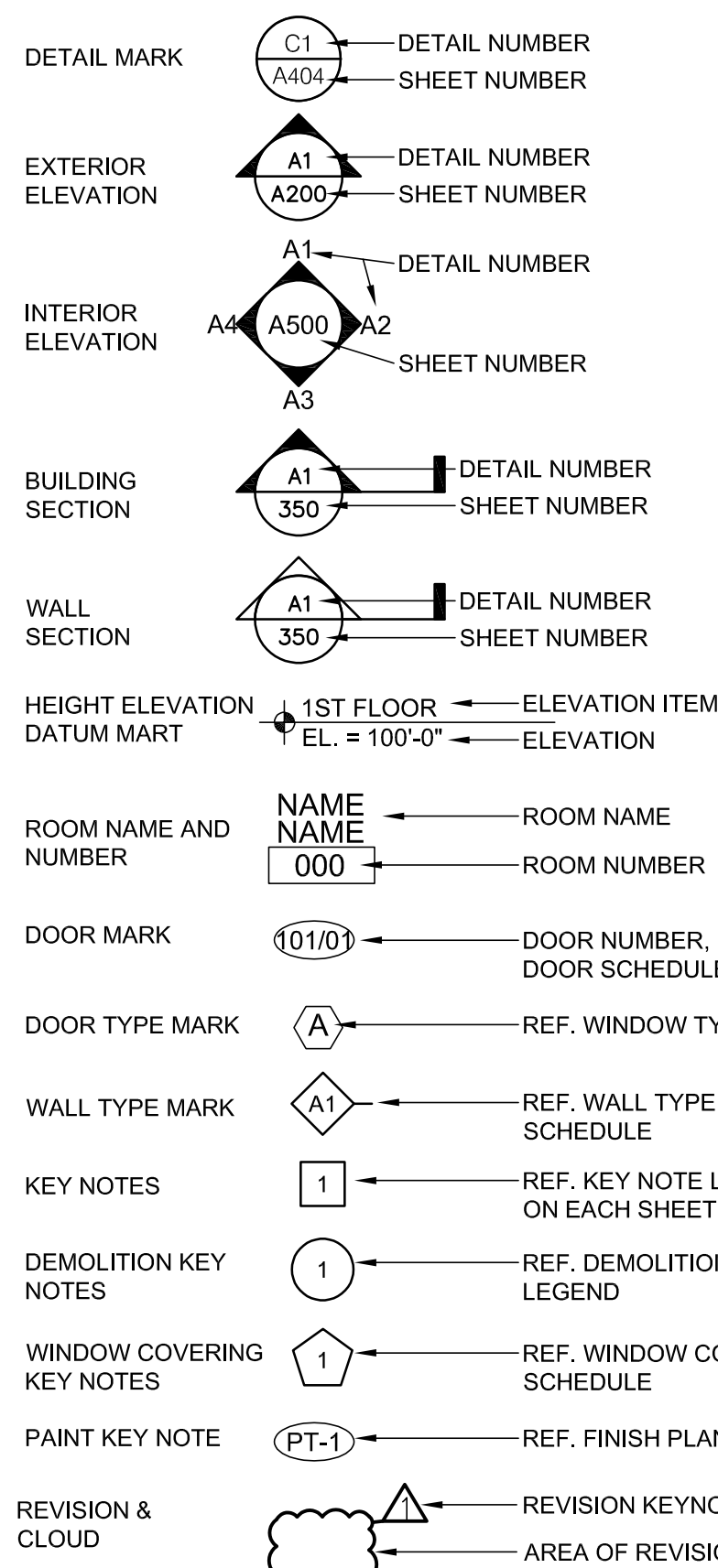
MECHANICAL / PLUMBING

MP001	MECHANICAL DESIGN CRITERIA
MP101	MECHANICAL SCHEDULES
MP201	MECHANICAL DETAILS
PD101	PLUMBING DEMO PLAN
P101	PLUMBING PLAN
MD101	HVAC DEMO PLAN
M101	HVAC PLAN

ELECTRICAL

E101	ELECTRICAL SCHEDULES
E201	ELECTRICAL FLOOR PLAN - POWER
E202	ENLARGED ELECTRICAL POWER PLAN
E203	ELECTRICAL FLOOR PLAN - HVAC EQUIP. CONNECTION
E301	ELECTRICAL FLOOR PLAN - LIGHTING
E401	ELECTRICAL SPECIFICATIONS

GRAPHIC SYMBOLS



ABBREVIATIONS:

AL	ALUMINUM
B-#	WALL BASE FINISH
BS-#	BARSTOOL, REF. FURNITURE SCHEDULE
C-#	CEILING FINISH
CN	CONCRETE
CJ	CONTROL JOINT
CP	CARPET TILE
CH	COAT HOOK
CH-#	CHAIR, REF. FURNITURE SCHEDULE
CT	CERAMIC TILE
DW	DISHWASHER
ES	EXPOSED STRUCTURE
EX	EXISTING
F-#	FLOORING FINISH
FEC	FIRE EXTINGUISHER AND CABINET
FE	FIRE EXTINGUISHER AND WALL BRACKET
FF	FACTORY FINISH
GB	GYPSUM BOARD
GL	GLASS
HM	HOLLOW METAL
L-#	SOFA, REF. FURNITURE SCHEDULE
MB	MARKER BOARD
FV	FIELD VERIFY ACTUAL CONDITIONS
F.O.W.	FACE OF WALL
F.O.O.	FACE OF OPENING
MP	METAL PANEL
MW	MICROWAVE
NF	NO FINISH
OT-#	OCCASIONAL TABLE, REF. FURNITURE SCHEDULE
P-#	POUF, REF. FURNITURE SCHEDULE
PW	PLYWOOD
R-#	FLOOR RUG, REF. FURNITURE SCHEDULE
SC	CONCRETE W/ SEALER (SEALED CONCRETE)
ST-#	STAIN FINISH
PL-#	PLASTIC LAMINATE FINISH
PT-#	PAINT (1 PRIME COAT, 2 FINISH COATS)
PU-#	CABINET HARDWARE - PULLS
Q-#	COUNTER TOP FINISH - QUARTZ
T-#	TABLE - REF. FURNITURE SCHEDULE
TO	TAPE ONLY
TV	WALL MOUNTED TV (PROVIDED BY OWNER)
VT	VINYL TILE
W-#	WALL FINISH / PANEL
WM	WALK OFF MAT

Architect hereby expressly reserves its common law copyright and other property rights in these plans. These plans and drawings are not to be reproduced, changed, copied or assigned to any third party, in any form or manner whatsoever without first obtaining the express written permission of Plan 4 Architecture Design.

COVER SHEET

PLAN4
ARCHITECTURE DESIGN www.plan4arch.com
303 north main st., mcpherson kansas 67241-4353

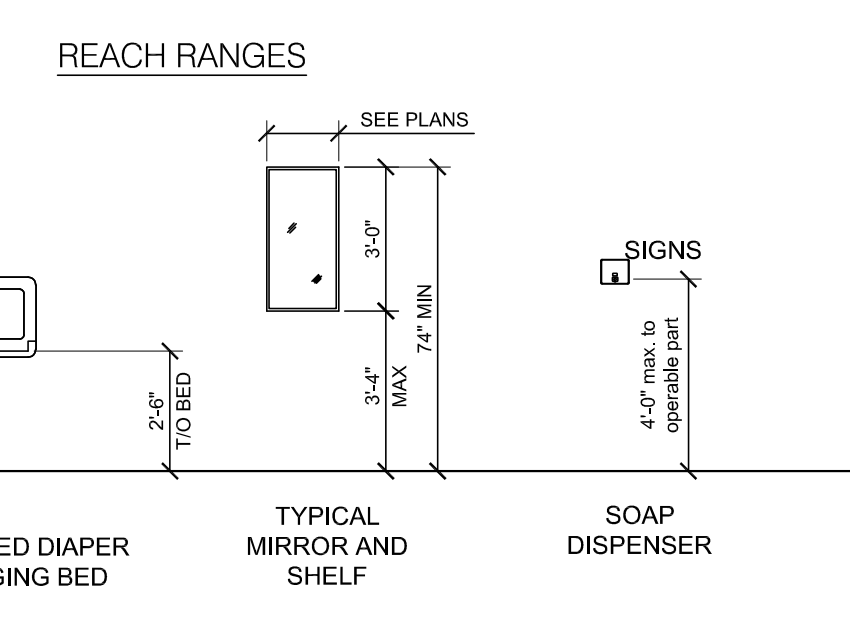
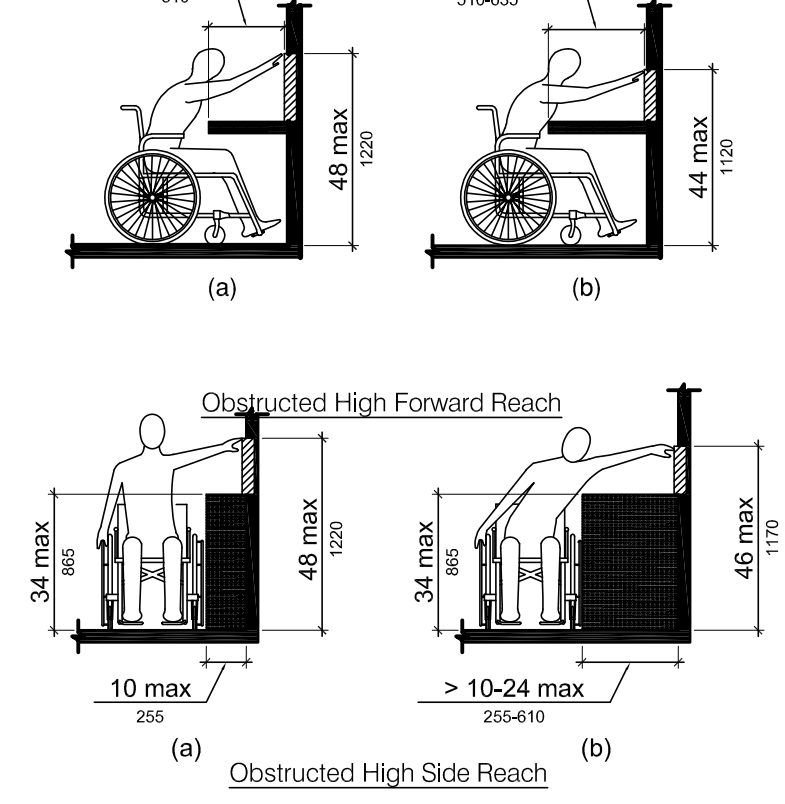
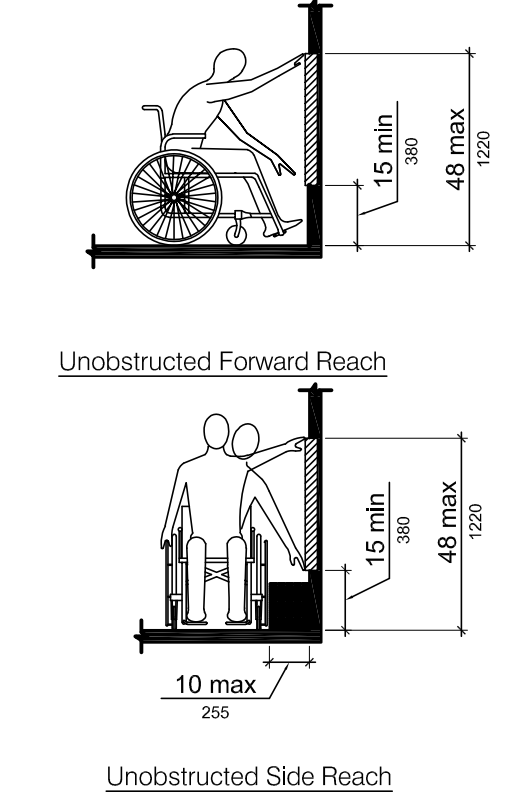
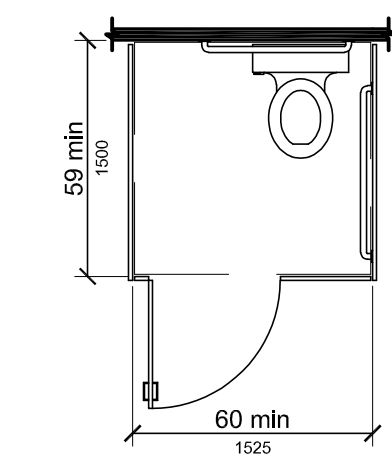
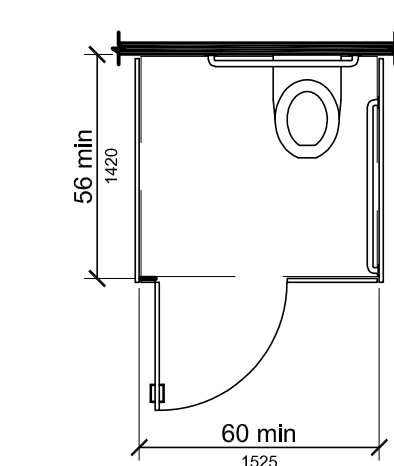
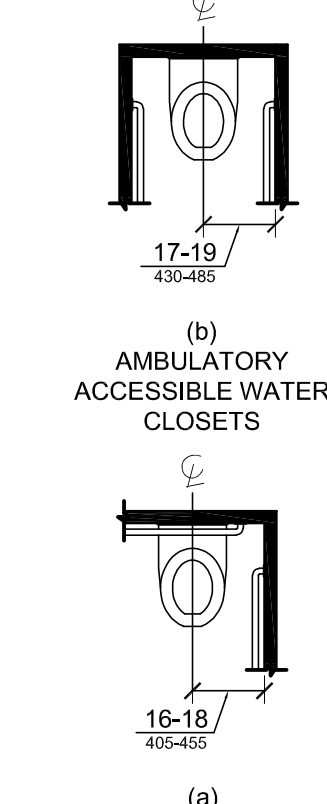
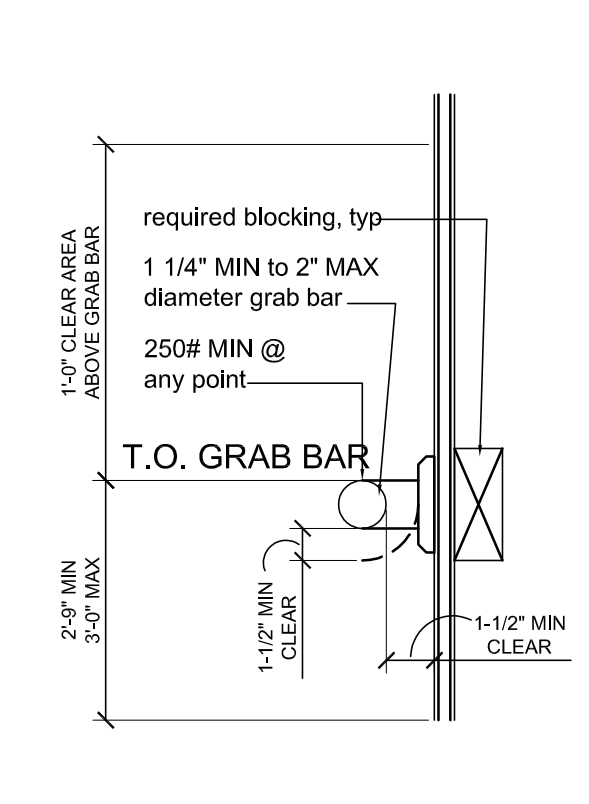
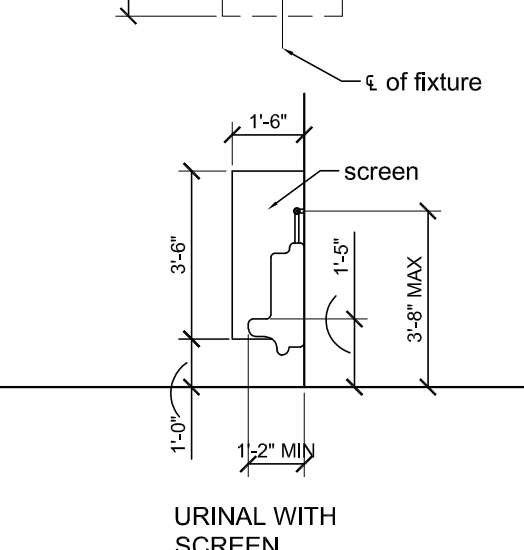
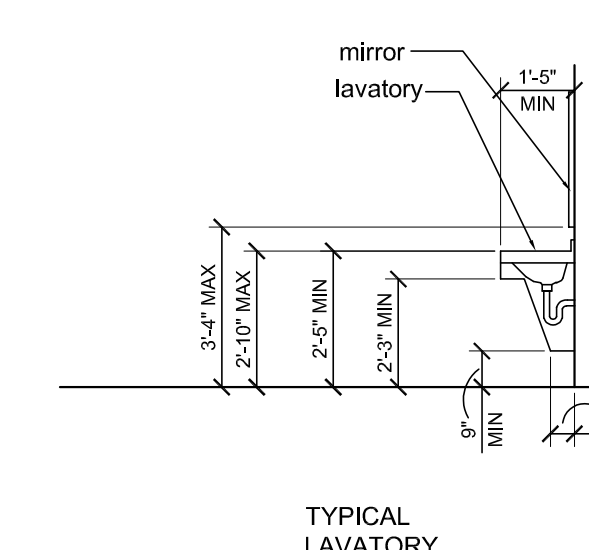
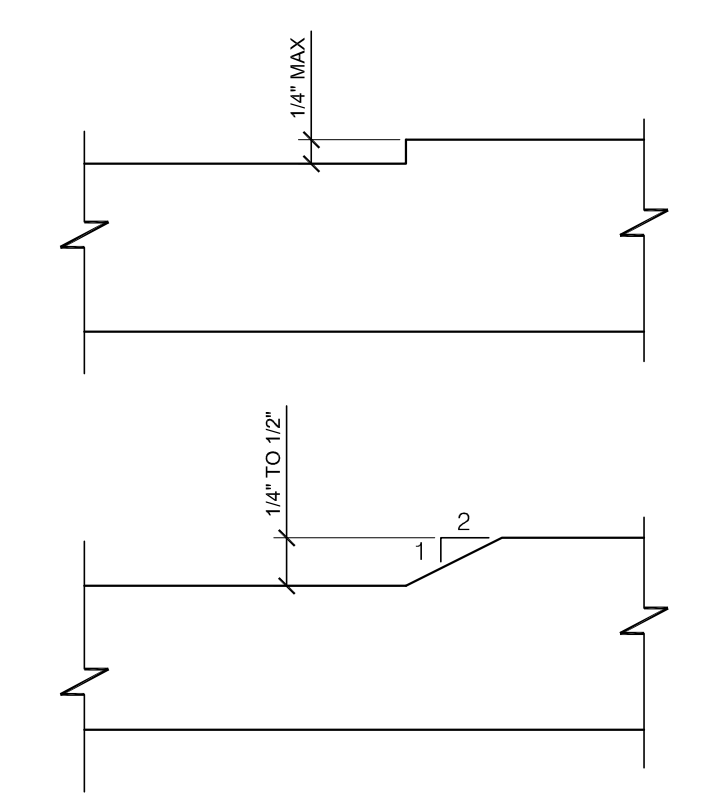
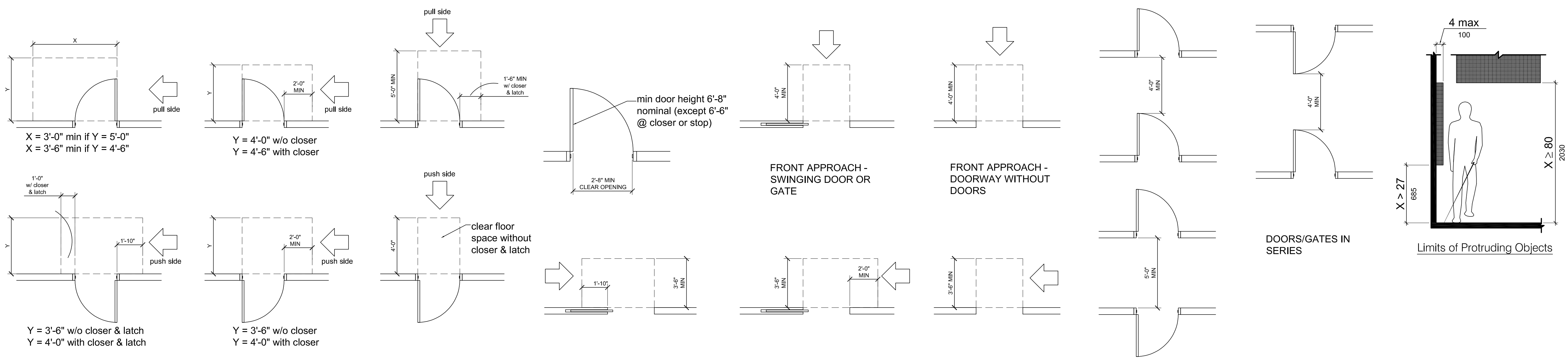
Farmers Alliance Mutual Insurance
1122 North Main
McPherson, Kansas 67460

Contract Date	
Rev No. 1	
Rev No. 2	
Rev No. 3	
Rev No. 4	
Rev No. 5	
Rev No. 6	
Project Number:	23.20
DWG File	G000.dwg
Designed By:	plan4
Drawn By:	GSC
Approved By:	plan4
Date:	03.25.24

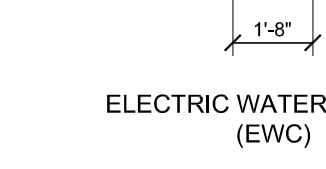
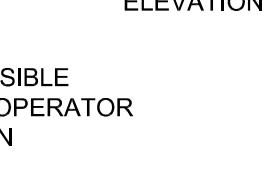
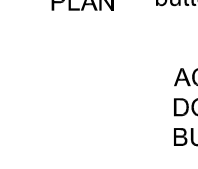
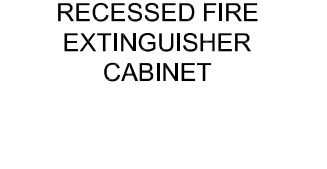
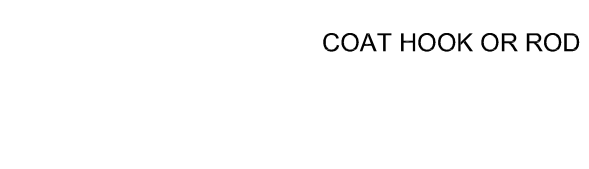
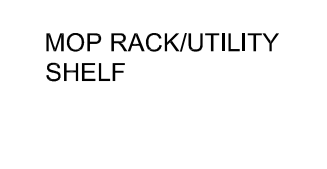
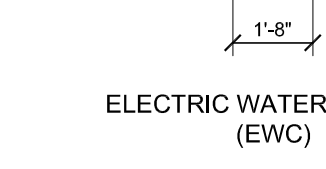
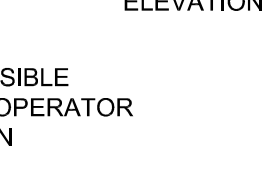
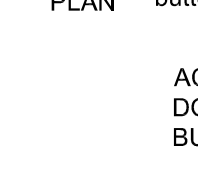
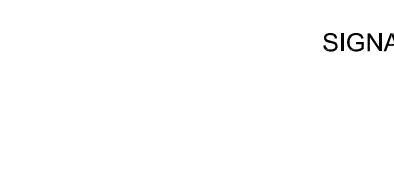
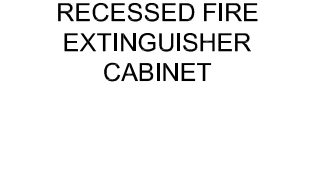
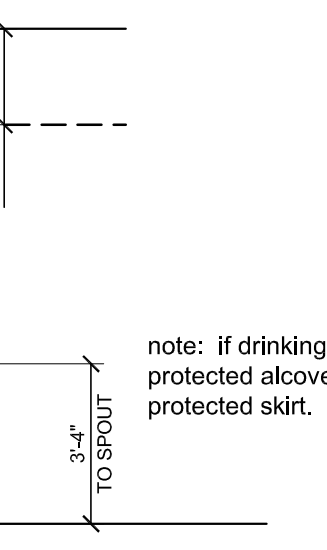
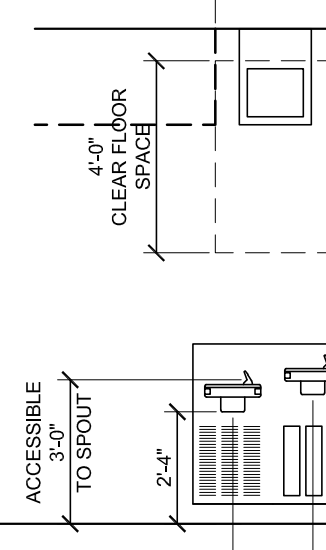
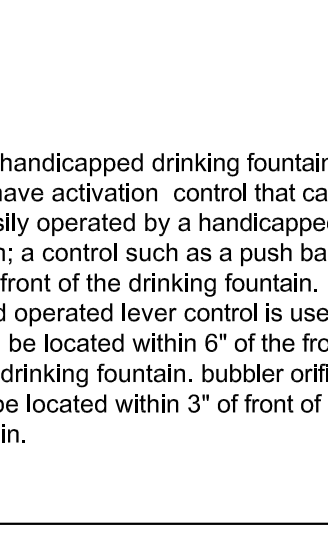
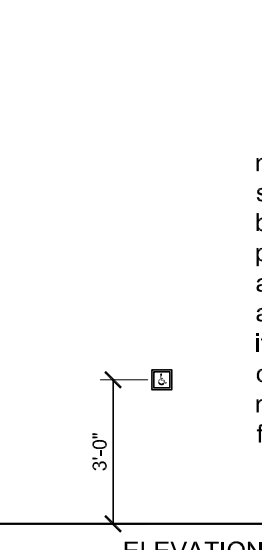
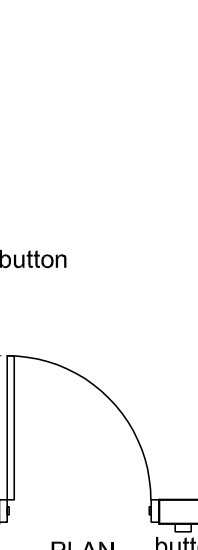
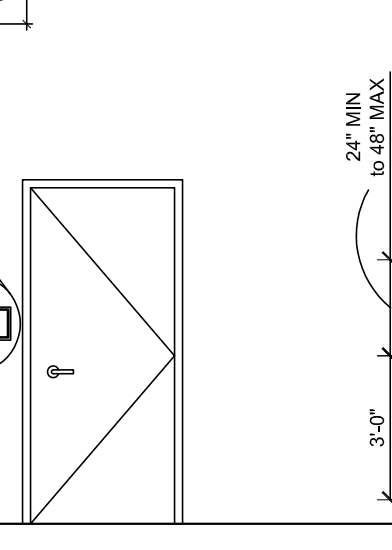
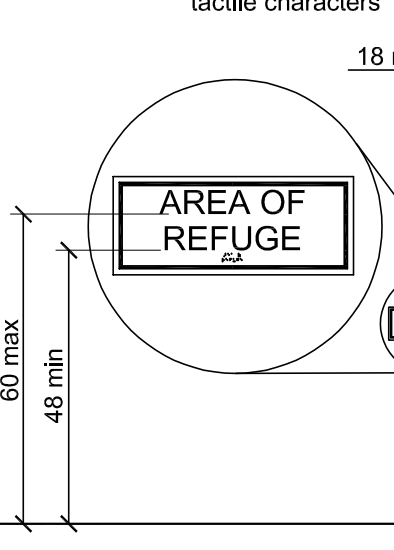
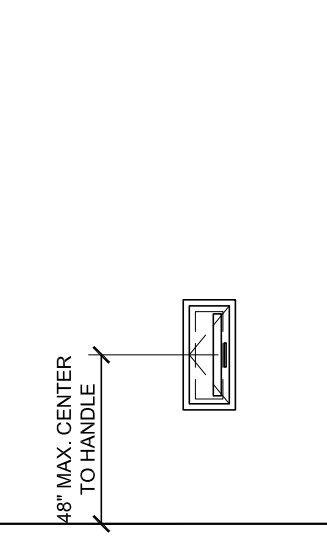
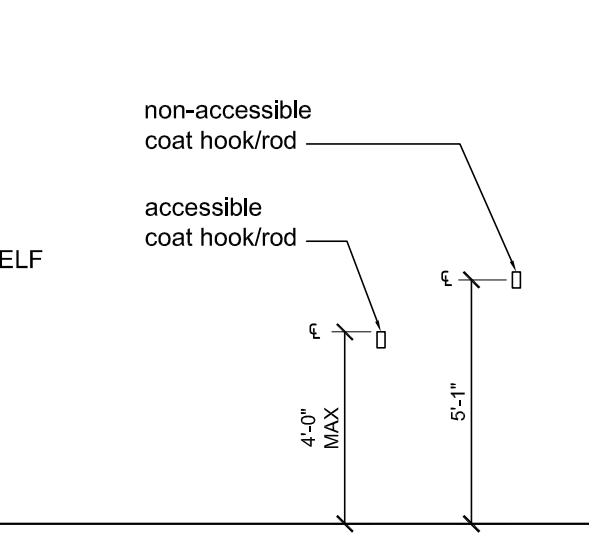
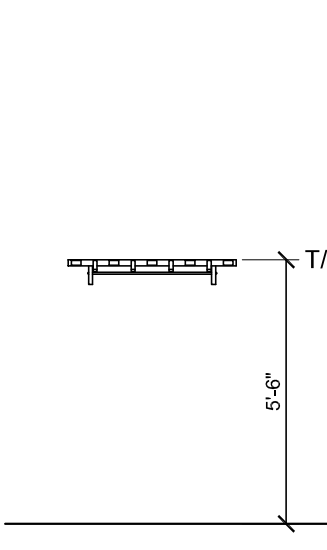


SHEET NUMBER
G000

11 x 17 = 1/2 scale



- general notes**
- the dimensions shown on these drawings are typical and do not necessarily show all the devices that are located on the walls.
 - the object of this sheet is to establish guidelines for the location of devices generally throughout the project. these dimensions shall be typical unless noted otherwise on drawings for specific cases.
 - the dimensions called out shall be to the top or bottom of the device's face plate as shown, unless noted otherwise.
 - items shown are located for accessibility, safety, and conformance with applicable codes and standards. in no case shall this information supersede requirements of applicable codes, standards, or authorities, if a conflict is found.
 - water closet and urinal flush control shall be mounted on the wide side.
 - exposed hot water and drain pipes shall be insulated.



note: handicapped drinking fountains shall have activation control that can be easily operated by a handicapped person; a control such as a push bar at the front of the drinking fountain. if a hand operated lever control is used it shall be located within 6" of the front of the drinking fountain. bubbler orifice must be located within 3" of front of fountain.

note: if drinking fountain is not in protected alcove then provide protected skirt.

ADA ACCESSIBILITY

Farmers Alliance Mutual Insurance
 1122 North Main
 McPherson, Kansas 67460

PLAN4
 ARCHITECTURE DESIGN www.plan4arch.com
 303 north main st., mcpherson kansas 67024-14353

Contract Date	
Rev No. 1	
Rev No. 2	
Rev No. 3	
Rev No. 4	
Rev No. 5	
Rev No. 6	
Project Number:	23.20
DWG File	G001.dwg
Designed By:	plan4
Drawn By:	GSC
Approved By:	plan4
Date:	03.25.24



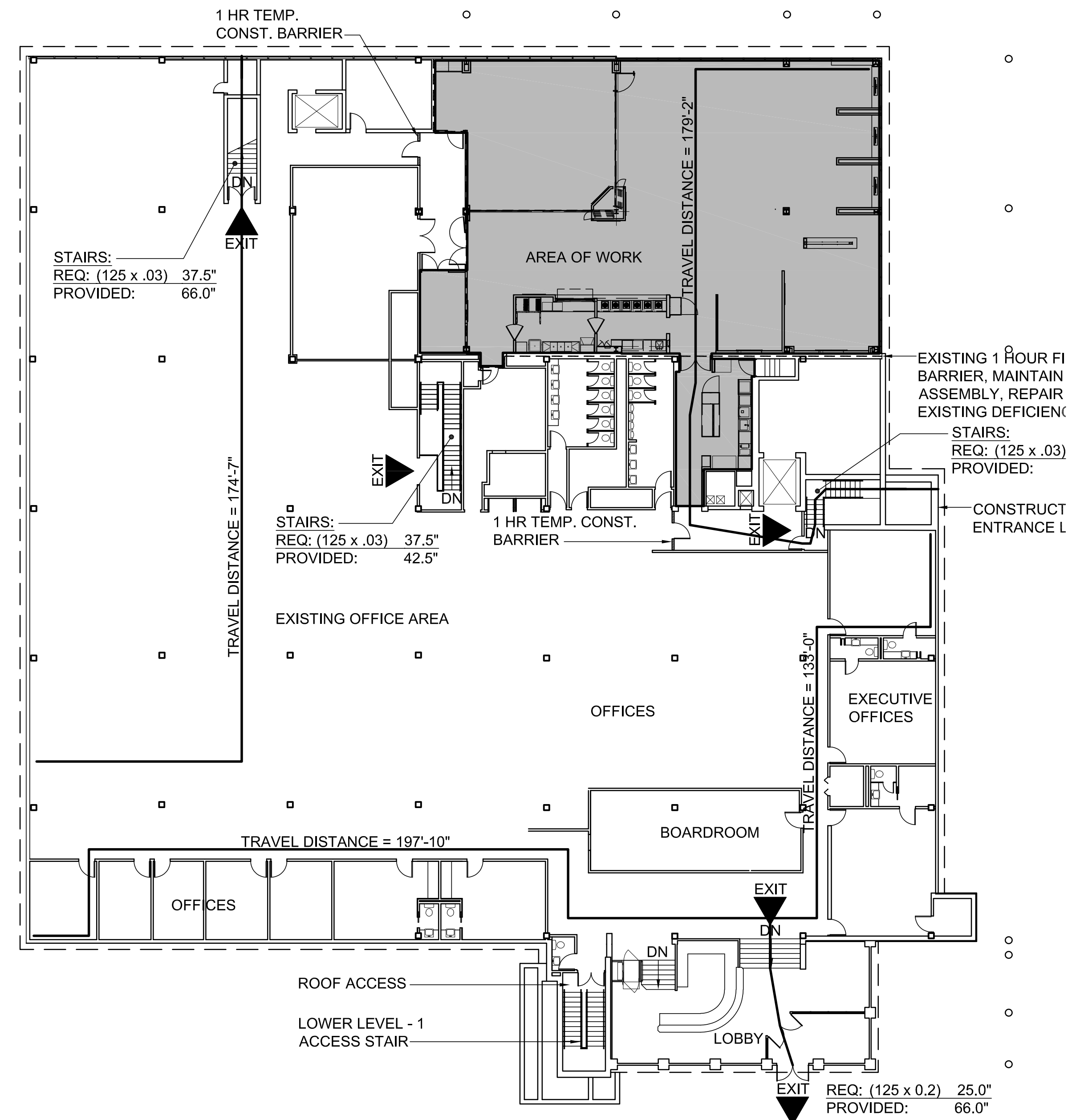
SHEET NUMBER

G001

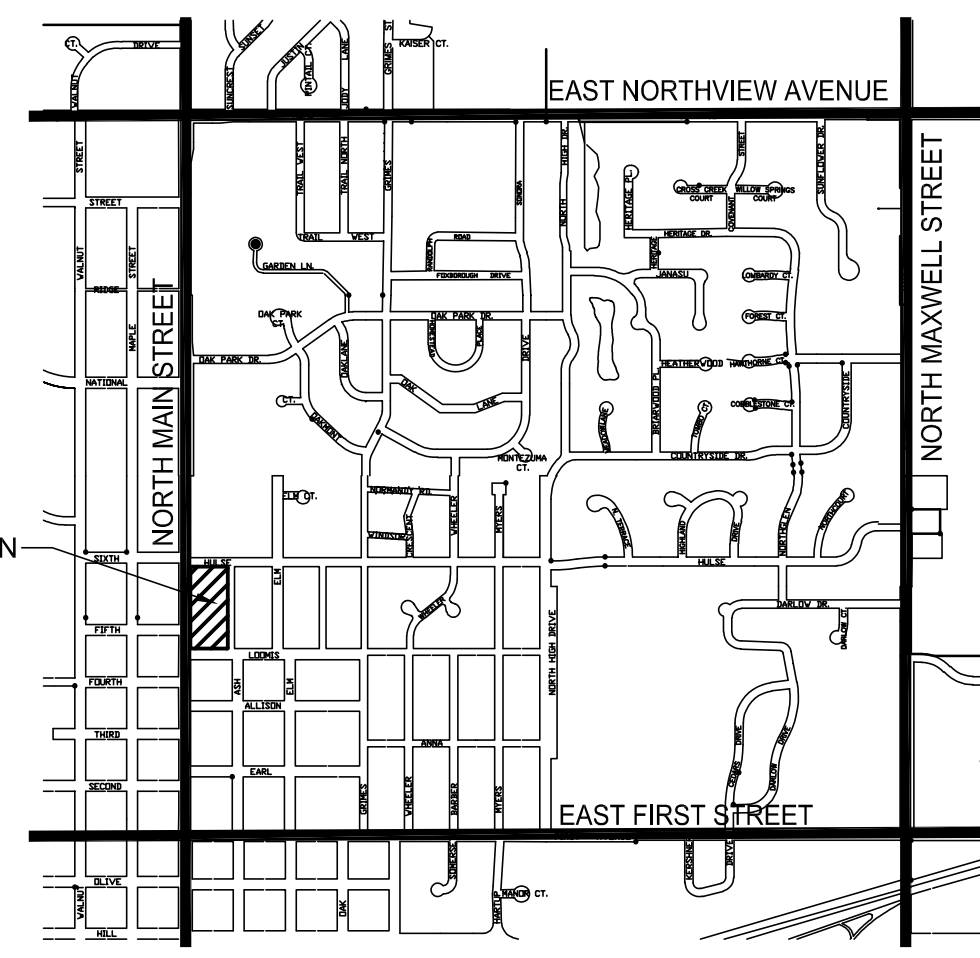
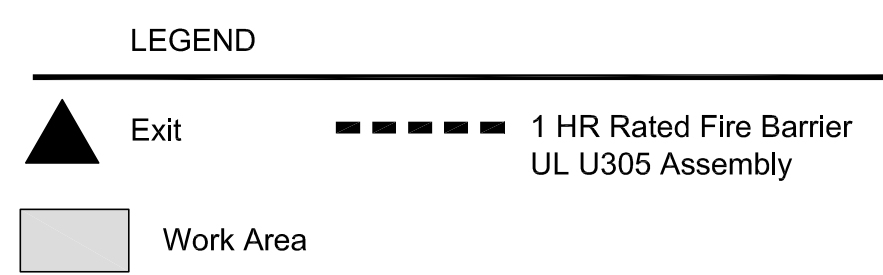
BUILDING INFORMATION:

Building Use: Office Building
Location: 1122 North Main
 McPherson, Kansas 67460
Architect: Plan4 Architecture Design
 303 North Main
 McPherson, Kansas 67460
 620.241.4353
Applicable Building Codes: 2018 - International Building Code
 2018 - International Fire Code
 2018 - International Plumbing Code
 2018 - International Mechanical Code
 2018 - International Fuel Gas Code
 2017 - National Electrical Code
 2018 - Existing Building Code
Other Applicable Standards: 2010 - ADA Standards for Accessible Design
Building History: The existing building was originally constructed in 1956, with additions to the existing in 1965 and 1989. The building is a 2 story structure with the lower level partial below grade and upper level elevated above grade. 3 stairways lead directed to the exit discharge with 1 stairway interconnected not more than 2 levels internally. Over the buildings life it has undergone several alteration to the interior areas and exterior. The use of the building has always existed as the main office / headquarters for Farmers Alliance Insurance since 1956. Many of the additions and alterations occurred prior to any adopted building code in the City of McPherson. Since a building code adoption several alterations have been made over the years under the adopted code at the time.
1997 UBC: Equivalence
 Existing Building: Non-Separated (Table 3-B) Construction Type IIIN
 Actual Area/ Hgt/ Stories: Level - 1 27,239 sq. ft.
 Level - 2 26,290 sq. ft. / ~ 25 ft. / 2 Stories
 Existing Area By Use:
 Level - 1 B 23,194 sq. ft.
 Exit Discharge All Area 4,045 sq. ft.
 Level - 2 B 26,720 sq. ft.
 All Area 1,570 sq. ft.
Occupant Load:
 Level - 2
 A-3.0 15 253 occ.
 B 100 245 occ.
 Total 498 occ. / 4 Exits / 125 per exit
 Stairs: 125 x .3 = 37.5"
 Doors: 125 x .2 = 25"
 Max. Travel Distance: 200 ft Non-Sprinklered Building

Utilities: Board of Public Utilities
 401 West Kansas Ave.
 McPherson, Kansas 67460
Building Inspections: City of McPherson
 400 East Kansas Ave.
 McPherson, Kansas 67460
Local Fire Department: McPherson Fire Department
 312 East Kansas Ave
 McPherson, Kansas 67460
Building Owner: Farmers Alliance Mutual Insurance Company
 P.O. Box 1401
 McPherson, Kansas 67460



A5 LEVEL - 2 PLAN
 SCALE: 1/16" = 1'-0"



CODE COMPLIANCE PLAN

Farmers Alliance Mutual Insurance
 1122 North Main
 McPherson, Kansas 67460

Contract Date	
Rev No. 1	
Rev No. 2	
Rev No. 3	
Rev No. 4	
Rev No. 5	
Rev No. 6	
Project Number:	23.20
DWG File	CC100.dwg
Designed By:	plan4
Drawn By:	CJH
Approved By:	plan4
Date:	03.25.24



SHEET NUMBER

CC100

11 x 17 = 1/2 scale

Architect hereby expressly reserves its common law copyright and other property rights in these plans. These plans and drawings are not to be reproduced, changed, copied or assigned to any third party, in any form or manner whatsoever without first obtaining the express written permission of Plan 4 Architecture Design.

PLAN4
 ARCHITECTURE DESIGN
 www.plan4arch.com
 303 north main st., mcpherson kansas 620.241.4353

Applicable Building Codes:
 2018 - International Building Code
 2018 - International Fire Code
 2018 - International Plumbing Code
 2018 - International Mechanical Code
 2018 - International Fuel Gas Code
 2017 - National Electrical Code
 2018 - Existing Building Code

Project Proposal:
 Remodel of an existing 4000 s.f. office break room and conference/meeting rooms. The work area will be within the existing 4 bounding walls of the existing area currently serving the same use. The alteration, under 2018 IEBC is categorized as level-2, and is 17% of the existing floor area. Improvements will be made to the mechanical system currently serving the area. The most significant work will be up-dating / replacement of finishes, such as flooring, walls, ceiling and lighting.

Applicable Code Req. To The Work Area Alteration Level 2

Second Floor (Level 2) Non-Separated; Non-Sprinklered
 Occupancy Group: 2018 IBC Equivalent Mixed-Use
 Construction Type (2018 IBC Equivalent) Type IIIB
 Allowable Area/ Hgt/ Stories: 9,500 sq. ft. / 55 ft / 2 Stories (Most Restrictive)
 Actual Area/ Hgt/ Stories: 28,290 sq. ft. / ~ 25 ft ± / 2 Stories

Area By Occupancy Use:

Level - 1	No Change	
Level - 2	B	22,931 sq. ft
	Accessory	1,570 sq. ft
	A-2	3,789 sq. ft.
	Total	28,290 sq. ft
Work Area:		4,794 sq.ft. (17% of Level - 2)

Occupant Load:

Table 1004.5	(sf)	(occ ld)
Storage (300)	270	1
Conference Room (15)	825	55
Break Room (15)	2,275	152
Break Area (100)	185	2
Collaboration Zone	220	12
Fireplace Lounge (15)	458	31
Small Lounge (15)	133	9
Kitchen (200)	270	1
Total	4,636	263

Egress:

Area of Work Only: 2nd Floor
 Level 2 Exits Req'd (Table 1006.3.3(2)): 2 Exits
 Level 2 Exits Provided: 3 Exits
 Width Required (Section 1005.3.2): 263 x 3 = 78.9" (Stairs)
 Width Provided: 197.5"
 Common Path of Egress (Table 1006.2.1): Not to Exceed 75 ft (A, B, S)
 Exit Travel Distance (Table 1017.2): Not to Exceed 200 ft (A, B, S)

Fire Protection:

Automatic Sprinkler System: 2016 NFPA 13: No Existing System, Level 2 Alterations - **Not Required**
 (2018 IEBC 803.2.2)
 1. Work area is accordance with 2018 IBC - 903.2.1.2. - YES
 2. Work area is over 50% of floor area. - NO

Fire Alarms & Detection: 2016 NFPA 72: Existing System, Level 2 Alterations - **Required**
 2018 IEBC (803.2.2) Automatic Activation Required Throughout 907.2.1 Over 300 / or over 100 above / below lowest level of exit discharge

Fire Extinguisher: 2018 NFPA 10: 2A:10BC - Dry Chemical
 Fire Hydrant Requirements: Interior Alteration, No Change to Building Area (Existing to Remain)
 Fire Truck Access: 4 Sides
 Roof Classification: Existing

Interior Finishes:

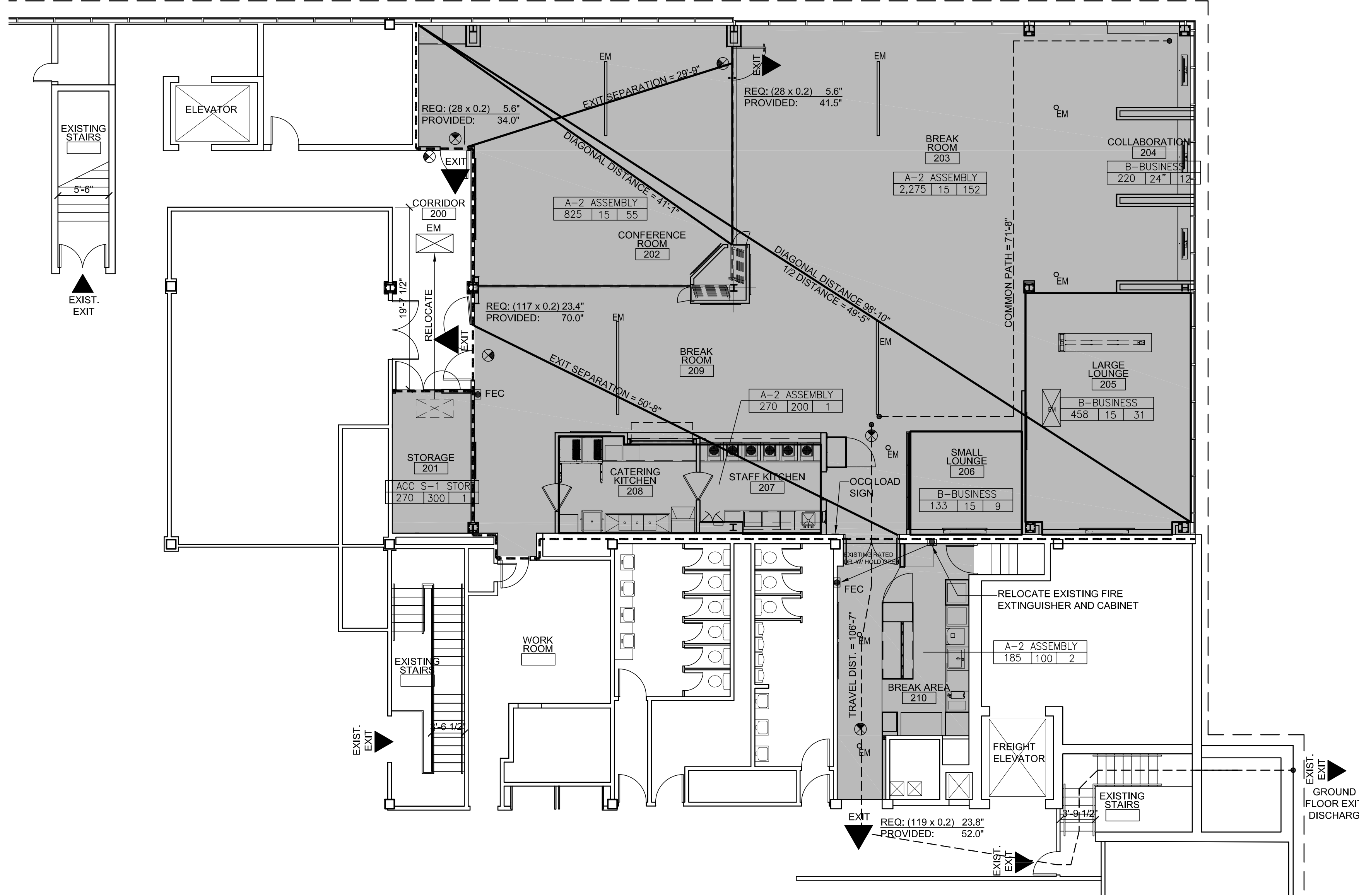
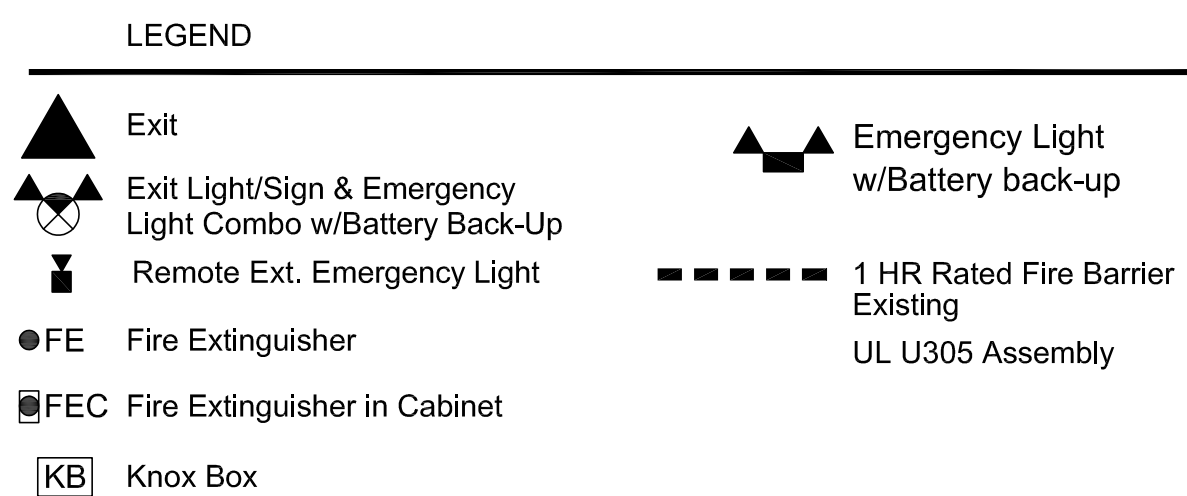
Interior Exit Stairs	Corridors	Rooms
B - Class A	Class B	Class C
A-2 - Class A	Class A	Class B OR C when occ. is below 300

Kansas Fire Prevention Code:
 K.S.A. 31-133 and 31-134a:
 Most buildings new or existing have one or more deviations from one of the recognized building codes. State law mandates compliance to the Kansas Fire Prevention Code (KFPC) in all occupied structures. State law can be summarized as: a) existing structures cannot have "distinctly hazardous conditions" - those that impede speedy exit"; b) new construction and changes in occupancy shall comply to current standards; and c) additions or changes in existing buildings cannot make the existing condition worse or block exiting.

*Most corrections to distinctly hazardous conditions compensate for the impaired exiting. Many compensatory measures acceptable to the Kansas State Fire Marshall's Office do not upgrade the building to meet the letter of a building, fire or life safety code. Existing portions of many buildings do not comply with a certain building code and should be specified as meeting the Kansas Fire Prevention Code.

Code Footprint Definition (KFSM):
 This document is a code footprint which shows owner compliance of state law to protect occupants from dangers of fire and explosion, and is the written and graphic description of the intended life safety features in a public building.

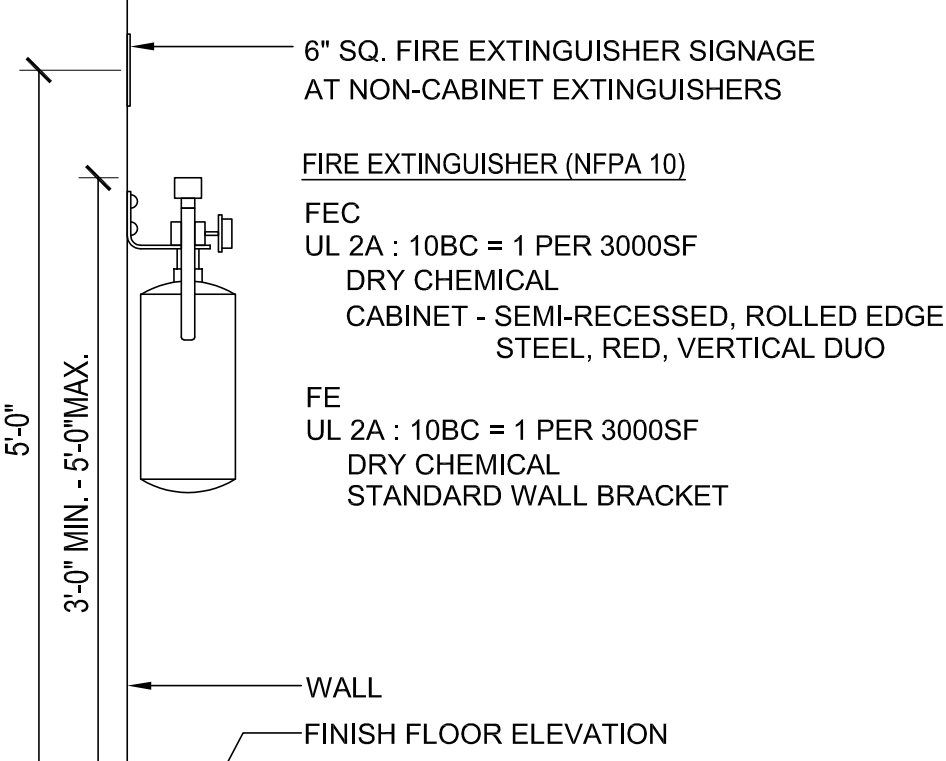
The code footprint defines minimum features of a code footprint for an objective evaluation by uniform applications of state law using minimum resources. It also makes the code footprint available to assist local fire or building officials view for new construction and changes in use and provides a building owner with life safety choices to best suit their circumstances at the outset of construction or renovations. It is a simple record, not a complete record, of the designer's life safety features, and is a fixed code target for the life of the building.



B4 LEVEL-2 PARTIAL CODE PLAN
 SCALE: 1/8"=1'-0"

Table 601 Fire Resistance Rating For Building Elements (Hours)

Building Element	Type V-B
Structural Frame Including Columns, Girders, Trusses	0
Bearing Walls Exterior	0
Bearing Walls Interior	0
Non-Bearing Walls and Partitions Exterior	0
Non-Bearing Walls and Partitions Interior	0
Floor Construction Including Supporting Beams and Joists	0
Roof Construction Including Supporting Beams and Joists	0
Enclosed Corridors (Table 1018.1) Non-Sprinklered Building > 30 occ.	1



NOTES:
 1. BASIS OF DESIGN UL 2A:10BC
 2. MOUNT TO WALL WITH NUMBER AND SIZE OF ANCHORS TO MATCH BRACKET.
 3. MINIMUM REQUIREMENT IS 1 2A FOR EACH 3,000 SF OF BUILDING AREA.
 4. MINIMUM REQUIREMENT IS 1 FOR EACH 75 FT OF TRAVEL DISTANCE.

CODE COMPLIANCE PLAN

Farmers Alliance Mutual Insurance
 1122 North Main
 McPherson, Kansas 67460

Contract Date	
Rev No. 1	
Rev No. 2	
Rev No. 3	
Rev No. 4	
Rev No. 5	
Rev No. 6	
Project Number:	23.20
DWG File	CC100.dwg
Designed By:	plan4
Drawn By:	CJH
Approved By:	plan4
Date:	03.25.24



SHEET NUMBER

CC101

11 x 17 = 1/2 scale

Architect hereby expressly reserves its common law copyright and other property rights in these plans. These plans and drawings are not to be reproduced, changed, copied or assigned to any third party, in any form or manner whatsoever without first obtaining the express written permission of Plan 4 Architecture Design.

PLAN4
 ARCHITECTURE DESIGN www.plan4arch.com
 303 north main st., mcpherson kansas 67024-1435

TEMPORARY SEPARATION WALL: (BEFORE COMMENCING ANY WORK)

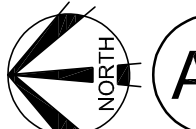
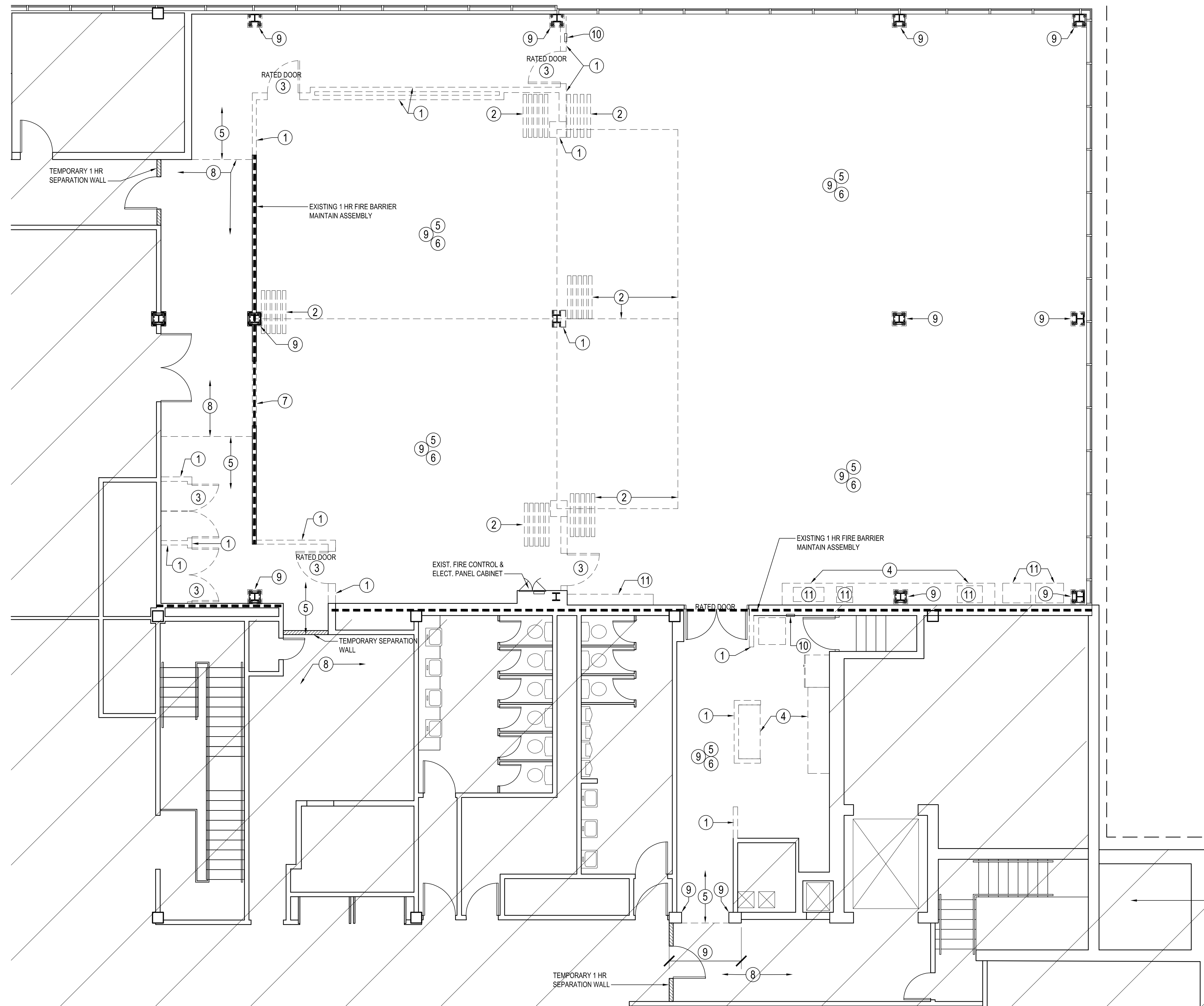
TEMPORARY WALL TO BE CONSTRUCTED WITH 2x4's @ 16" O.C. WITH 5/8" TYPE 'X' GYP. BD. BOTH SIDES. DOOR TO BE A CONSTRUCTION ACCESS ONLY 20 MINUTE DOOR AND FRAME. THIS WALL IS TO BE MAINTAINED FOR THE DURATION OF THE CONSTRUCTION PROJECT.

GENERAL DEMOLITION NOTES:

1. CONTRACTOR TO NOTIFY ARCHITECT AND OWNER IF MATERIALS CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED.
2. CONFORM TO APPLICABLE REGULATORY PROCEDURES WHEN DISCOVERING HAZARDOUS OR CONTAMINATED MATERIALS
3. CONFORM TO APPLICABLE CODE FOR DEMOLITION OF STRUCTURES, SAFETY OF ADJACENT STRUCTURES, DUST CONTROL AND DISPOSAL OF MATERIALS.
4. DEMOLISH EXISTING WORK IN AN ORDERLY AND CAREFUL MANNER AS REQUIRED TO ACCOMMODATE NEW WORK, PREVENT MOVEMENT OR SETTLEMENT OF STRUCTURE. PROVIDE BRACING AND OR SHORING AS REQUIRED TO MAINTAIN SAFETY.
5. COORDINATE ALL DEMOLITION WORK WITH OWNER AS NECESSARY.
6. GENERAL CONTRACTOR TO NOTIFY OWNER REPRESENTATIVE AND ARCHITECT OF ANY DISCREPANCIES OR IRREGULARITIES DISCOVERED DURING CONSTRUCTION.
7. GENERAL CONTRACTOR TO COORDINATE WITH OWNER SCHEDULE AND TIMING OF DEMOLITION WORK. CONTRACTOR TO PROVIDE AND INSTALL ALL TEMPORARY MEANS OF EGRESS, TEMPORARY LIGHTING AND SAFETY DEVICES IN ACCORDANCE WITH STATE AND LOCAL CODES.
8. ALL EXISTING SURFACES TO REMAIN SHALL BE PROTECTED. CONTRACTOR IS RESPONSIBLE FOR PATCHING AND REPAIRING EXISTING FLOOR SLABS AND WALLS AFTER COMPLETION OF DEMOLITION AND PRIOR TO THE COMMENCEMENT OF NEW CONSTRUCTION.
9. CONTRACTOR IS TO PATCH, REPAIR AND LEVEL EXISTING FLOOR SLAB TO RECEIVE NEW WORK AND INFORM OWNER'S REPRESENTATIVE AND ARCHITECT OF ANY IRREGULARITIES.
10. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE FIRE RATING AND INTEGRITY OF EXISTING WALLS AND CEILINGS.
11. ALL FIREPROOFING AT STRUCTURAL ELEMENTS SHALL REMAIN U.N.O. ANY FIREPROOFING REMOVED AND/OR DAMAGES DURING THE COURSE OF DEMOLITION AND SUBSEQUENT CONSTRUCTION SHALL BE REPLACED WITH THE SAME MATERIALS AND RATINGS AS THAT WHICH WAS REMOVED AT THE CONTRACTORS EXPENSE.
12. DEMOLITION CONTRACTOR SHALL REMOVE ALL EXISTING FLOOR COVERING AND/OR FINISHES, UNDERLAYMENT, GLUE AND OTHER ADHESIVE AND SHALL PREPARE THE FLOOR SLAB FOR THE NEW FLOOR FINISHES OR COVERINGS AS SPECIFIED BY THE MANUFACTURER.
13. DEMOLITION CONTRACTOR SHALL COORDINATE ALL MECHANICAL, ELECTRICAL AND PLUMBING DEMOLITION WORK WITH PLANS PRIOR TO THE COMMENCEMENT OF ANY WORK AND COORDINATE THEIR WORK WITH THE GENERAL CONTRACTOR AND OTHER SUB-CONTRACTORS AS NECESSARY.
14. ALL MECHANICAL, ELECTRICAL AND PLUMBING FIXTURES, EQUIPMENT AND/OR DEVICES IN WORKING AND IN SATISFACTORY CONDITION TO REMAIN AND RE-USED AS NOTED PER PLANS. WHEN SPECIFIED TO BE SALVAGED OR RECONDITIONED FOR RE-USE, THESE ITEMS ARE TO BE INSPECTED BY A QUALIFIED TECHNICIAN OR TRADESPERSON AND SHALL ADVISE THE OWNER AND ARCHITECT OF VIABILITY OF SALVAGED ITEMS FOR RE-USE. COORDINATE WITH MECHANICAL, ELECTRICAL AND PLUMBING PLANS.
15. ALL MECHANICAL, ELECTRICAL AND PLUMBING FIXTURES, EQUIPMENT AND/OR DEVICES SCHEDULED TO BE REMOVED SHALL BE DISCONNECTED AT THE SOURCE UNLESS NOTED OR DIRECTED OTHERWISE. COORDINATE ALL WORK WITH MECHANICAL ELECTRICAL AND PLUMBING PLANS.
16. ALL EXISTING DUCTWORK AND DIFFUSERS ARE TO BE REMOVED TO EXTENT REQUIRED TO REMOVE EXISTING CEILING AND INSTALL NEW CEILING. ALL ABANDONED HVAC EQUIPMENT AND DUCTWORK SHALL BE REMOVED.
17. ALL ELECTRICAL POWER MUST BE DISCONNECTED BEFORE STARTING DEMOLITION. G.C. TO COORDINATE WITH OWNER REPRESENTATIVE AND ENSURE THAT ELECTRICAL DISRUPTION TO ADJACENT SPACES IS MINIMAL.
18. CONTRACTOR TO COORDINATE THE REMOVAL, DISCONNECTION AND/OR CAPPING OF ANY UTILITIES WITH OWNER AS NECESSARY. ALL UNDER-SLAB UTILITIES LINES TO BE CUT, CAPPED AND SEALED PER STATE AND LOCAL CODES.
19. ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL AND TELEPHONE OUTLETS AND ALL ASSOCIATED WIRES IN WALLS SCHEDULE TO BE REMOVED AND TERMINATED AT THE LAST OUTLEST THAT REMAINS IN SERVICE.
20. ALL EMPTY AND ABANDONED CONDUIT AND JUNCTION BOXES TO BE REMOVED BACK TO IT'S SOURCE.
21. REMOVAL AND CAPPING OF PLUMBING FIXTURES TO BE COORDINATED PER PLAN AND WITH GENERAL CONTRACTOR TO MAINTAIN REQUIRED MINIMUM USAGE DURING CONSTRUCTION (WHEN APPLICABLE).
22. CONTRACTOR IS RESPONSIBLE FOR ANY REQUIRED HAZARDOUS MATERIAL TESTING.
23. CONTRACTOR TO REMOVE OWNER EQUIPMENT AND STORE AT OWNER LOCATION. I.E. AUDIO/VIDEO, CAMERAS, SECURITY, ETC.

DEMOLITION NOTES:

- ① REMOVE EXISTING WALL.
- ② REMOVE EXISTING FOLDING WALL ASSEMBLY, HARDWARE, OVERHEAD TRACK, ETC., IN THEIR ENTIRETY.
- ③ REMOVE EXISTING DOOR, FRAME & HARDWARE.
- ④ REMOVE EXISTING CASEWORK. (RETAIN AT OWNER REQUESTS)
- ⑤ REMOVE EXISTING FLOOR FINISH.
- ⑥ REMOVE EXISTING CEILING SYSTEM, LIGHT FIXTURES, SMOKE DETECTORS, STROBE LIGHTS, MECH DIFFUSERS.
- ⑦ REMOVE PORTION OF EXISTING WALL FOR NEW DOOR OPENING. REFERENCE FLOOR PLAN.
- ⑧ EXISTING FLOOR FINISH TO REMAIN. REPLACE DAMAGED AREA AS REQUIRED.
- ⑨ REMOVE EXISTING WOOD TRIM, BASE AND PLYWOOD FROM COLUMNS, WALLS AND CEILING.
- ⑩ REMOVE AND SALVAGE EXISTING FIRE EXTINGUISHER AND CABINET. REF. PLAN FOR RELOCATION.
- ⑪ CONTRACTOR TO COORDINATE WITH OWNER - REMOVAL OF FOOD / BEVERAGE VENDOR EQUIPMENT.



A1 PARTIAL LEVEL - 2 DEMOLITION
SCALE: 1/8"=1'-0"

Architect hereby expressly reserves its common law copyright and other property rights in these plans. These plans and drawings are not to be reproduced, changed, copied or assigned to any third party, in any form or manner whatsoever without first obtaining the express written permission of Plan 4 Architecture Design.

EXISTING PLANS

Farmers Alliance Mutual Insurance
1122 North Main
McPherson, Kansas 67460

PLAN4
ARCHITECTURE DESIGN www.plan4arch.com
303 north main st., mcpherson kansas 67024-1435

Contract Date	
Rev No. 1	
Rev No. 2	
Rev No. 3	
Rev No. 4	
Rev No. 5	
Rev No. 6	
Project Number:	23.20
DWG File	
Designed By:	plan4
Drawn By:	CJH
Approved By:	plan4
Date:	03.25.24



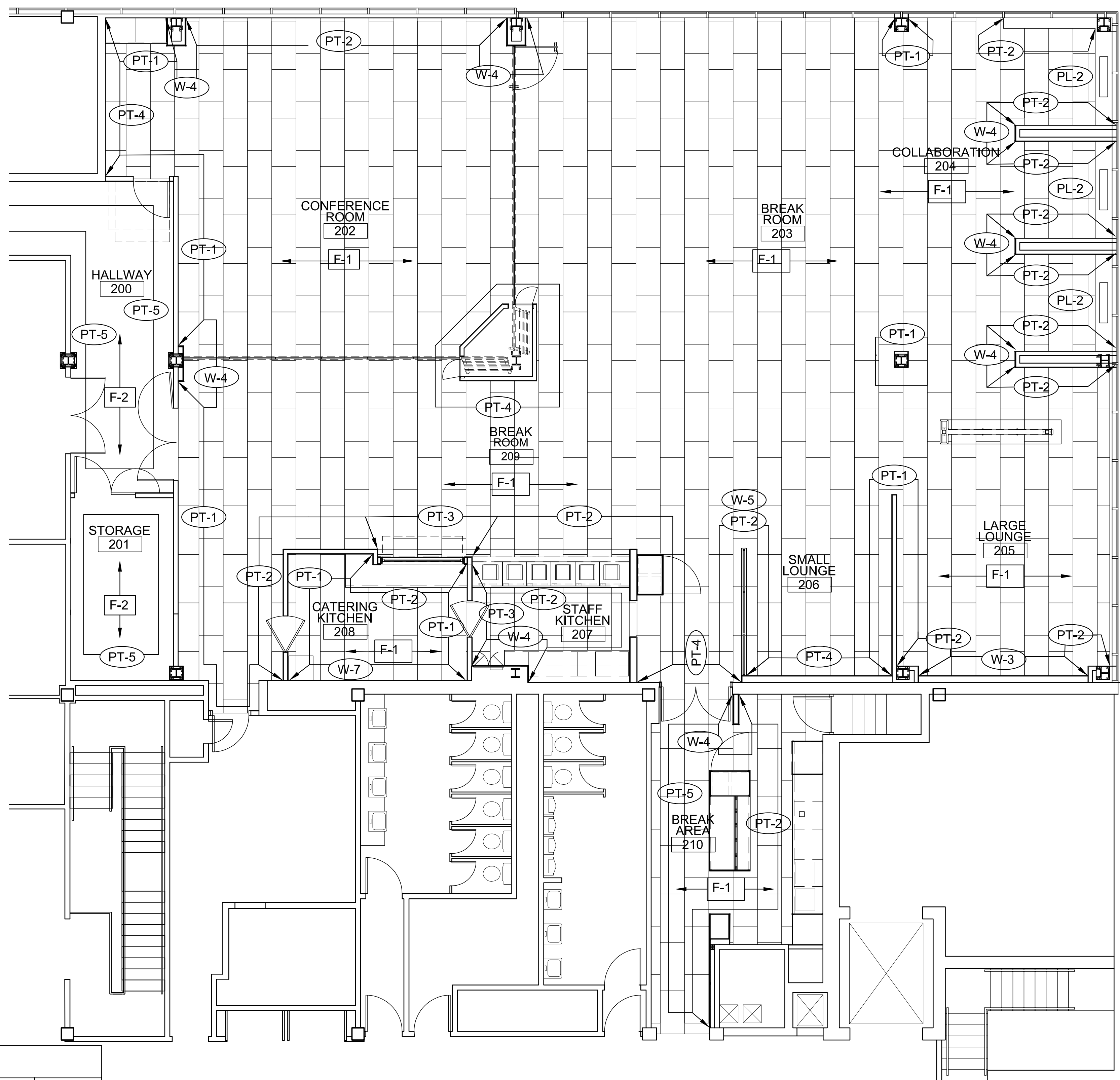
SHEET NUMBER
AD102

11 x 17 = 1/2 scale

FINISH MATERIAL LIST

FLOORING	BASE	PAINT
F-1 FLOOR TILE MFR: ANATOLIA / VIRGINIA TILE STYLE: INDUSTRIA HD PORCELAIN TILE COLOR: LITHIUM, RECTIFIED SIZE: 24"x48"x13/32" MORTAR: SCHLUTER ALL-SET, GRAY CRACK ISOLATION BARRIER: SCHLUTER DITRA GROUT: TEC POWER GROUT - SLATE GRAY PATTERN: 33% OFFSET	B-1 TILE BASE @ NON-TILED WALLS MFR: ANATOLIA / VIRGINIA TILE STYLE: INDUSTRIA HD PORCELAIN TILE COLOR: LITHIUM, RECTIFIED SIZE: 12"x24"x13/32" CUT - 4" FINISHED HEIGHT MORTAR: SCHLUTER ALL-SET, GRAY GROUT: TEC POWER GROUT - SLATE GRAY TOP TRIM: SCHLUTER QUADREC 7/16", LIGHT ANTHRACITE	PRIMER SHERWIN WILLIAMS: PROMAR 200 PRIMER (B28W2600) (INTERIOR WALLS & CEILING) PT (1 PRIME COAT, 2 FINISH COATS) PT-1 WALL PAINT MFR: SHERWIN WILLIAMS - SUPER PAINT COLOR: UNCERTAIN GRAY SW 6234 FINISH: SATIN
F-2 CARPET TILE MFR: J&J INVISION STYLE: COLOR: SIZE: PATTERN: QUARTER TURN NOTE: FIELD VERIFY, REPLACE AS REQUIRED	B-2 BASE @ CASEWORK MFR: WILSONART COLOR: CHARCOAL VELVET, TRACELESS FINISH MOUNT ON 3/4" PLYWD. B-3 TILE BASE @ NON-TILED WALLS w/ PT-2 MFR: ANATOLIA / VIRGINIA TILE STYLE: INDUSTRIA HD PORCELAIN TILE COLOR: LITHIUM, RECTIFIED SIZE: 12"x24"x13/32" CUT - 4" FINISHED HEIGHT MORTAR: SCHLUTER ALL-SET, GRAY GROUT: TEC POWER GROUT - RAVEN TOP TRIM: SCHLUTER QUADREC 7/16", DARK ANTHRACITE TEXTURED B-4 BASE @ CARPET MFR: JOHNSONITE TRADITIONAL COLOR: CHARCOAL 4" W/ TOE ADHESIVE: PARABOND FUSION X	PT-2 WALL PAINT MFR: SHERWIN WILLIAMS - SUPER PAINT COLOR: IRON ORE SW 7069 FINISH: FLAT PT-3 WALL PAINT - ACCENT MFR: SHERWIN WILLIAMS - DURATION HOME COLOR: CUSTOM MATCH, SW 6866 REAL RED BASE FINISH: MATTE PT-4 WALL PAINT MFR: SHERWIN WILLIAMS - SUPER PAINT COLOR: EXTRA WHITE SW 7006 FINISH: SATIN PT-5 WALL PAINT MFR: SHERWIN WILLIAMS - SUPER PAINT COLOR: EVENING SHADOW 7662 FINISH: SATIN PT-6 CEILING PAINT MFR: SHERWIN WILLIAMS - SUPER PAINT COLOR: EXTRA WHITE SW 7006 FINISH: MATTE PT-7 CEILING PAINT MFR: SHERWIN WILLIAMS - SUPER PAINT COLOR: IRON ORE SW 7069 FINISH: MATTE
WALL TILE/PANELS	DOORS	CEILING
W-1 BACKSPASH TILE MFR: EQUIPE CERAMICAS/ M&S STYLE: COCO COLOR: AMBER GREY MATTE SIZE: 2" x 6" MORTAR: TEC DOUBLE DUTY GROUT: TEC POWER GROUT, SLATE GRAY PATTERN: VERTICAL 50% OFFSET	DOOR AND FRAME ST-1 WOOD DOORS MFR: MINWAX COLOR: HABITAT MW 427 PT-2 HOLLOW METAL FRAMES MFR: SHERWIN WILLIAMS - SUPER PAINT COLOR: IRON ORE SW 7069 FINISH: FLAT	C-1 CEILING TILE CLOUD MFR: USG GRID: DONN BRAND IDENTITEE DXI FINELINE COLOR: WHITE PANEL: HALCYON - FL #98225 COLOR: WHITE SIZE: 24" x 24" x 1" C-2 CEILING TILE UPPER CEILING MFR: USG GRID: DONN BRAND IDENTITEE DXI FINELINE COLOR: FLAT BLACK PANEL: HALCYON - FL #98225 COLOR: FLAT BLACK SIZE: 24" x 24" x 1" C-3 CEILING TILE PERFORATED MFR: ARKTURA STYLE: VAPOR VERVE W/ FROSTED BACKER COLOR: T-GRID WHITE (MATTE) ALUMINUM POWDER COAT W/ FROSTED BACKER SIZE: 24"x1-1/2" C-4 GYP. BD. CLG. TO BE PAINTED. SEE PT-6 C-5 GYP. BD. CLG. TO BE PAINTED. SEE PT-7
W-2 UNDER BAR WALL TILE MFR: EQUIPE CERAMICAS/ M&S STYLE: COCO COLOR: BLACK HAT MATTE SIZE: 2" x 6" MORTAR: TEC DOUBLE DUTY GROUT: TEC POWER GROUT - RAVEN PATTERN: VERTICAL 33% OFFSET	COUNTERTOPS	
W-3 WALL TILE @ FIREPLACE LOUNGE MFR: CAESAR CERAMICHE - VIRGINIA TILE STYLE: RELATE COLOR: MINE SIZE: 12" x 24" x 3/8" MORTAR: TEC DOUBLE DUTY PLUS ADHESIVE GROUT: TEC POWER GROUT - RAVEN PATTERN: VERTICAL 33% OFFSET	Q-1 QUARTZ @ COUNTERTOP MFR: MSI Q QUARTZ COLOR: MARBELLA WHITE	
W-4 PERFORATED METAL PANELS MFR: MOZ MTRL: .063" PERFORATED ALUMINUM STYLE: 3/16" DIA. BY 5/16" STG. CTRS. COLOR: CLASSIC KHAKI FOG MATTE SIZE: VARIES	CASEWORK	
W-5 FROSTED RESIN W/ PERFORATED METAL PANEL MFR: 3FORM WALL STYLE: FULLY FRAMED, TOP SUPPORT PARTITION JET BLACK MATTE STYLE: CUSTOM DIGITAL PRINT MATERIAL: VARIA 3/8" FINISH: SANDSTONE F01 FINISH	PL-1 CABINERY MFR: WILSONART TRACELESS COLOR: CHARCOAL VELVET 15504-31 PL-2 CABINERY MFR: WILSONART PRODUCT: SOLICOR HORIZONTAL GRADE LAMINATE .048" - 161 COLOR: CHARCOAL VELVET 15504-31 TRACELESS FINISH W EDGES	
W-6 PLYWOOD WALL PANEL MFR: - STYLE: - COLOR: ST-1 SIZE: VARIES		
W-7 FRP WALL PANEL MFR: MARLITE STYLE: ARTIZAN CEMENT FINISH COLOR: 2410 - SKY NATURAL CONCRETE SIZE: 4'-0" x 10'-0"		

- NOTES TO FINISH:**
- REF SHEET A121 CEILING PLAN FOR FINISH LOCATIONS.
 - ALL WALLS AT 9' A.F.F. ON UP, TO BE PAINTED PT-2.
- NOTES FOR TILE INSTALLATION**
- FOLLOW PROPER TILE SETTING, GROUT APPLICATION AND DRYING PROCEDURES.
 - DO NOT WALK ON THE FLOOR FOR AT LEAST 72 HOURS. GROUT MUST HAVE THE PROPER CURING TIME.
 - FOLLOW INSTRUCTIONS FOR WEEKLY/DEEP CLEAN CLEANING USING A "HEAVY-DUTY STONE, TILE AND GROUT CLEANER" TO REMOVE GROUT HAZE FROM INITIAL INSTALLATION. MOST LIKELY, THERE WILL BE GROUT HAZE NOT VISIBLE TO THE NAKED EYE.
 - ALLOW FLOOR TO COMPLETELY DRY. FLOOR SHOULD THEN BE READY TO COVER.
 - ALL TILE SHOULD BE COVERED WITH RAM BOARD, PLYWOOD OR A SIMILAR MATERIAL AT ALL TIMES PRIOR TO OPENING.
 - NO CONSTRUCTION DUST, DIRT, OR GRIME SHOULD TOUCH THE PROPERLY CLEANED FLOOR. THIS IS DETRIMENTAL TO THE LONG-TERM CARE OF THE FLOOR.



FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR FINISH	BASE FINISH	NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL	CEILING FINISH	NOTES
200	HALLWAY	OWNER'S STOCK	EXISTING	PT-5	PT-5	PT-5	PT-5	EXISTING	-
201	STORAGE	OWNER'S STOCK	B-4	PT-5	PT-5	PT-5	PT-5	C-4	-
202	CONERENCE ROOM	F-1	B-1/B-2/B-3	PT-4/PT-1/W-4	PT-1/PT-2/W-4	PT-4/W-4	PT-4	C-1 / C-2 / C-4	-
203	BREAK ROOM	F-1	B-1	PT-4/PT-2/W-4	PT-1/W-4	PT-1	PT-4	C-1 / C-2 / C-4	-
204	COLLABORATION	F-1	B-3	PT-1	PT-2/PT-1	PL-2/W-4	PT-2	C-4 / C-1	-
205	LARGE LOUNGE	F-1	B-1/B-3	PT-2	PT-2 / PT-1	PT-2	PT-2/W-3	C-3 / C-4	-
206	SMALL LOUNGE	F-1	B-1	W-5/PT-2	-	PT-1	PT-4	C-4	-
207	STAFF KITCHEN	F-1	B-1/B-2	PT-3	PT-2	PT-2	PT-2/W-4	C-1	-
208	CATERING KITCHEN	F-1	B-1/B-2	PT-1	PT-2/PT-1	PT-1	W-7	C-1	-
209	BREAK ROOM	F-1	B-1/B-3	PT-1/W-4	PT-4	PT-2	PT-2/PT-3/PT-1/W-2	C-1 / C-2 / C-4	-
210	BREAK AREA	F-1	B-1/B-2	PT-5	PT-5/W-4/PT-2	PT-2/W-1/PT-5	PT-2/PT-5	C-1 / C-4	-

A4 FINISH FLOOR PLAN
SCALE: 3/16" = 1'-0"
0 2 4 8 FT

PLAN4 ARCHITECTURE DESIGN
www.plan4arch.com
303 north main st., mcpherson kansas 67241-4353

FINISH SCHEDULE

Farmers Alliance Mutual Insurance
1122 North Main
McPherson, Kansas 67460

Contract Date	
Rev No. 1	
Rev No. 2	
Rev No. 3	
Rev No. 4	
Rev No. 5	
Rev No. 6	
Project Number:	23.20
DWG File	A010.dwg
Designed By:	plan4
Drawn By:	GSC
Approved By:	plan4
Date:	03.25.24

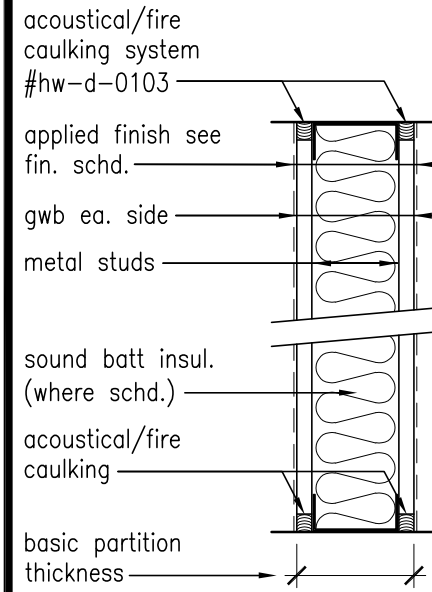


SHEET NUMBER

A010

11 x 17 = 1/2 scale

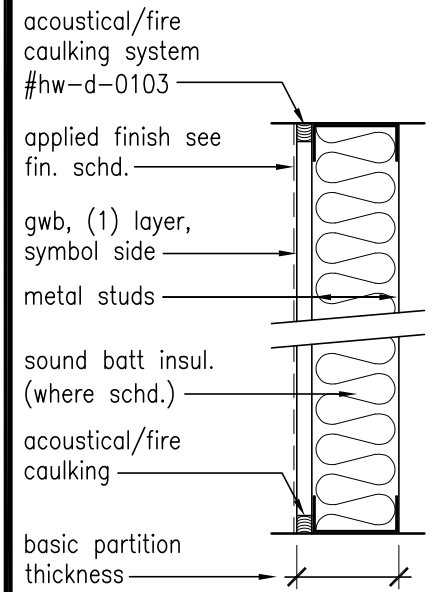
notes:
use water resistant gwb in all toilets, janitor closets, lockers, showers and kitchen areas.



MTL STUD PART. W/ SGL LAYER OF GWB, EA. SIDE

PARTITION SYSTEM A

notes:
use water resistant gwb in all toilets, janitor closets, lockers, showers and kitchen areas.



MTL STUD PART. W/ SGL LAYER ON ONE SIDE

PARTITION SYSTEM D

partition identification plan symbol	A1-H	A2-H	A3-H
basic partition thickness	4-7/8"	7-1/4"	4-7/8"
stud size	3-5/8"	6"	3-5/8"
metal thickness (gauge)	20 ga	20 ga	20 ga
fire rating (hrs)			1 HR
fire test number			UL U305
acoustical rating (stc)			
acoustical test number			
insulation thickness			3-5/8"
gwb thickness	5/8"	5/8"	5/8"
acoustical caulking			
fire caulking			YES
stud spacing (o.c.)	16"	16"	16"
studs to ceiling			
studs to structure above			YES
remarks:			

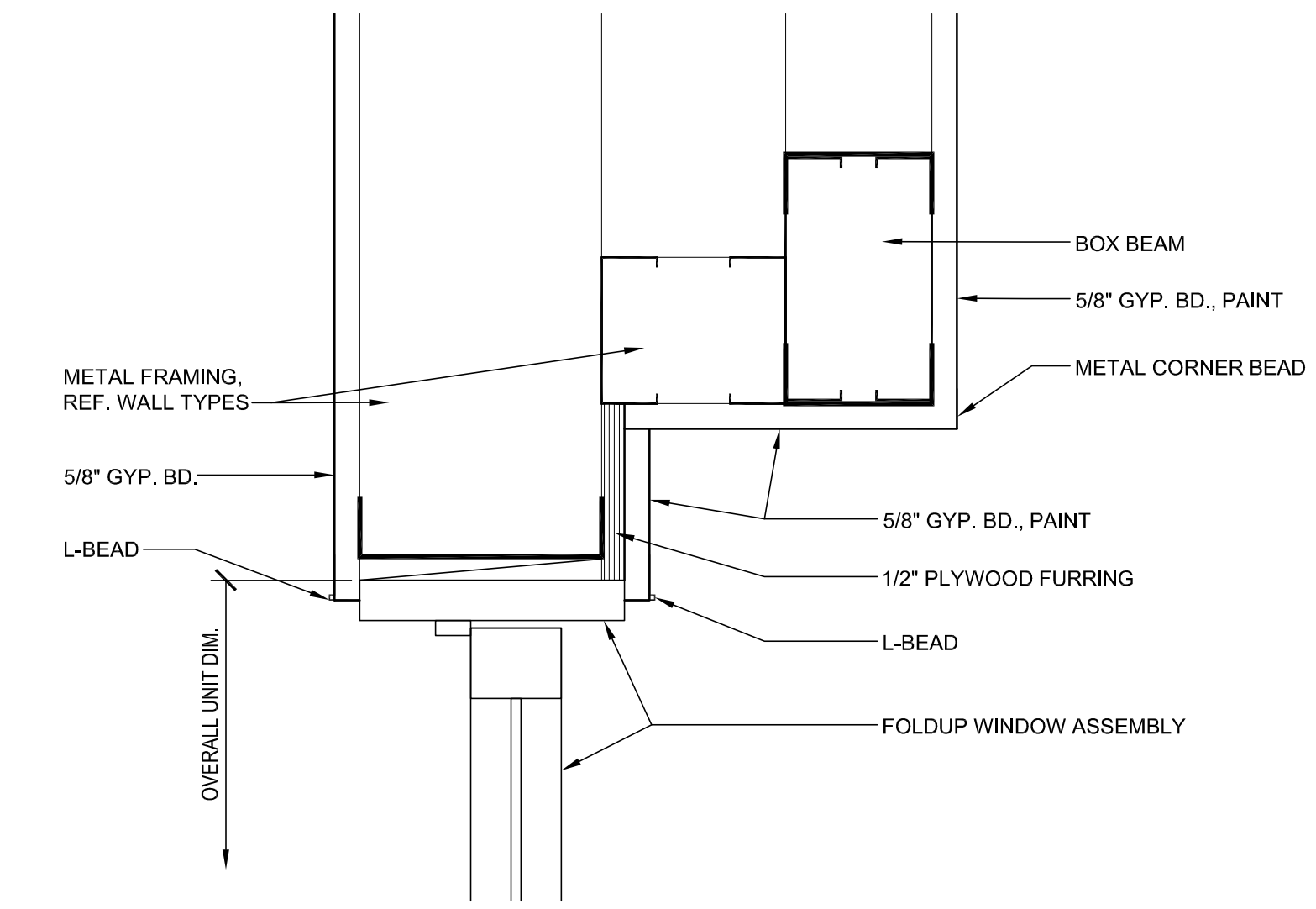
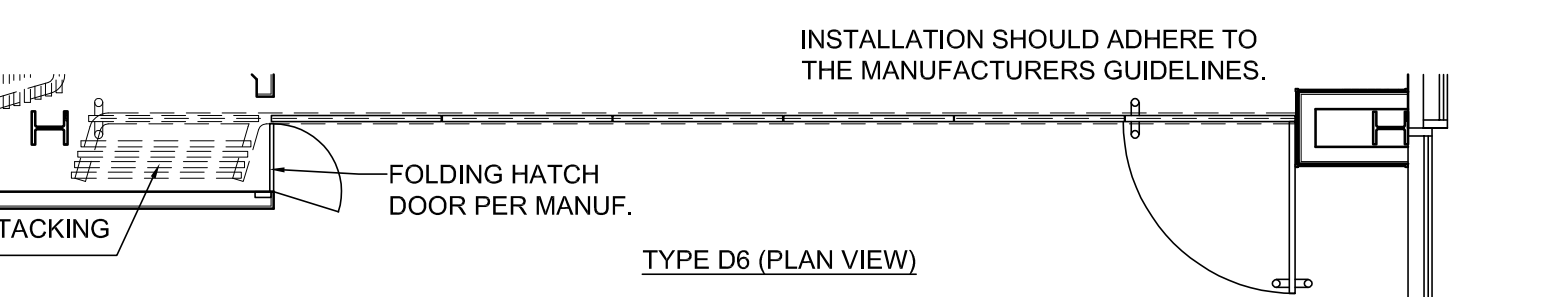
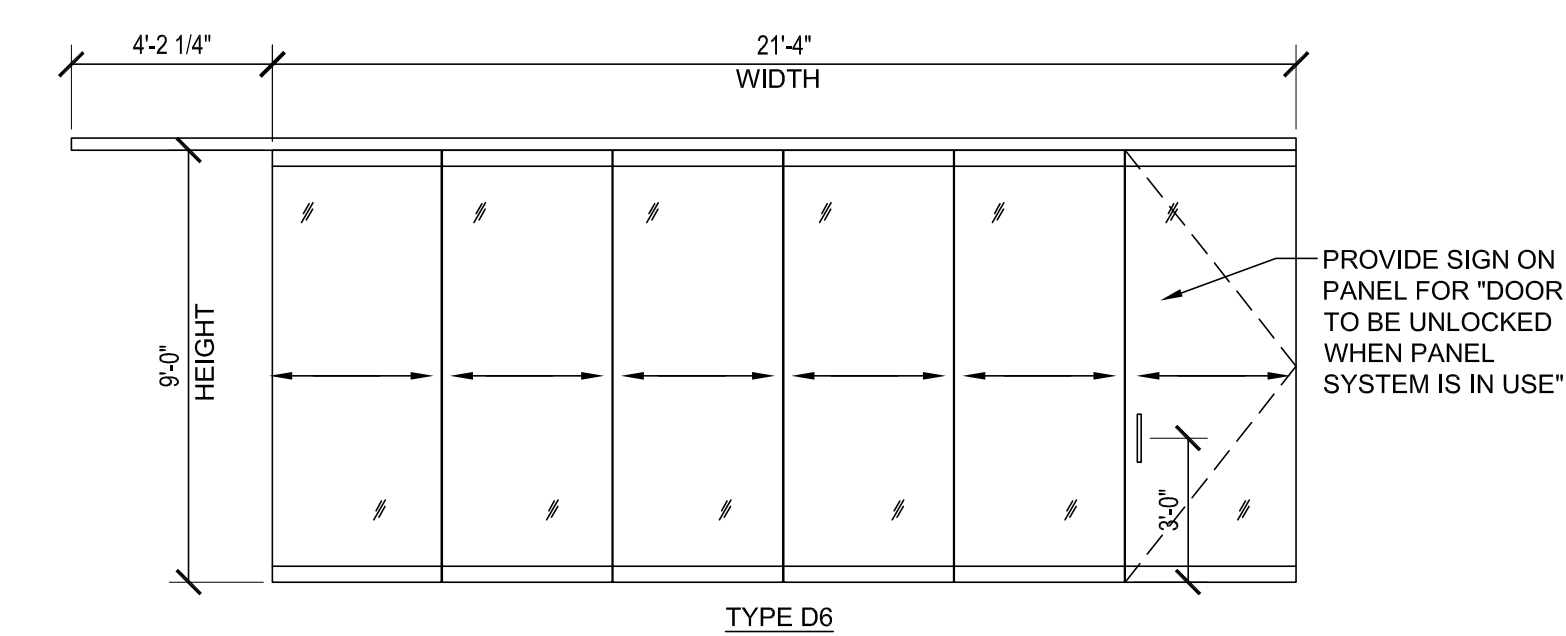
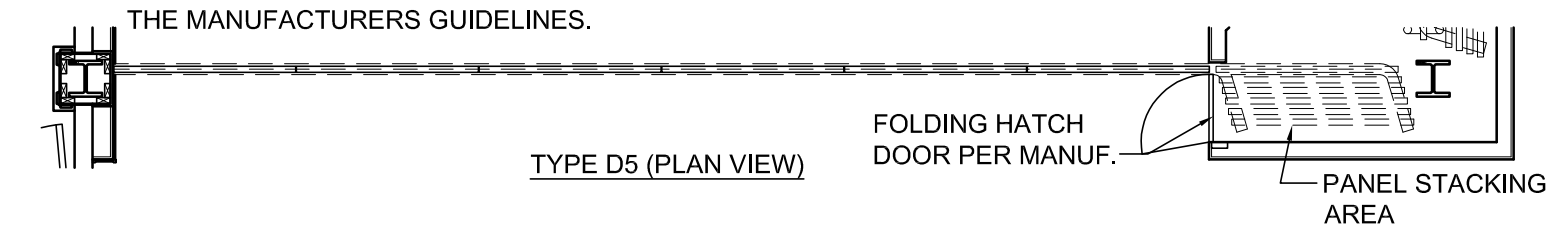
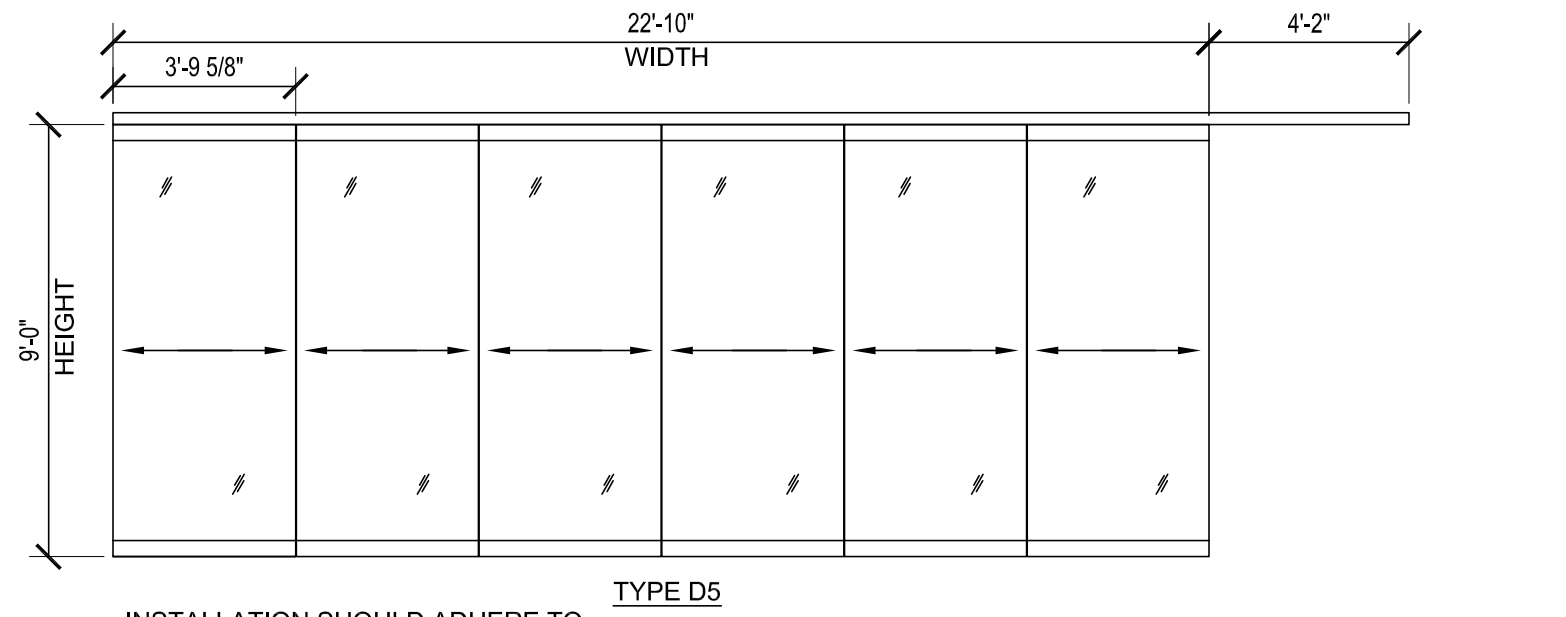
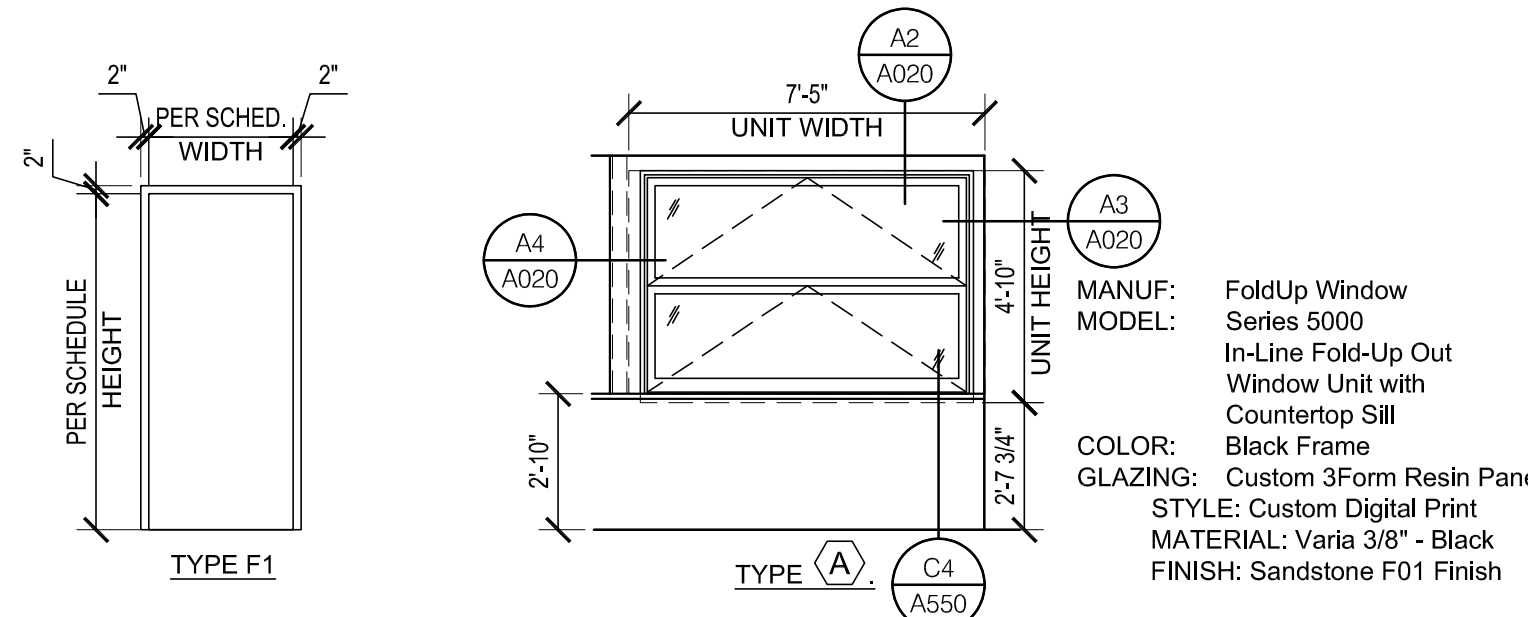
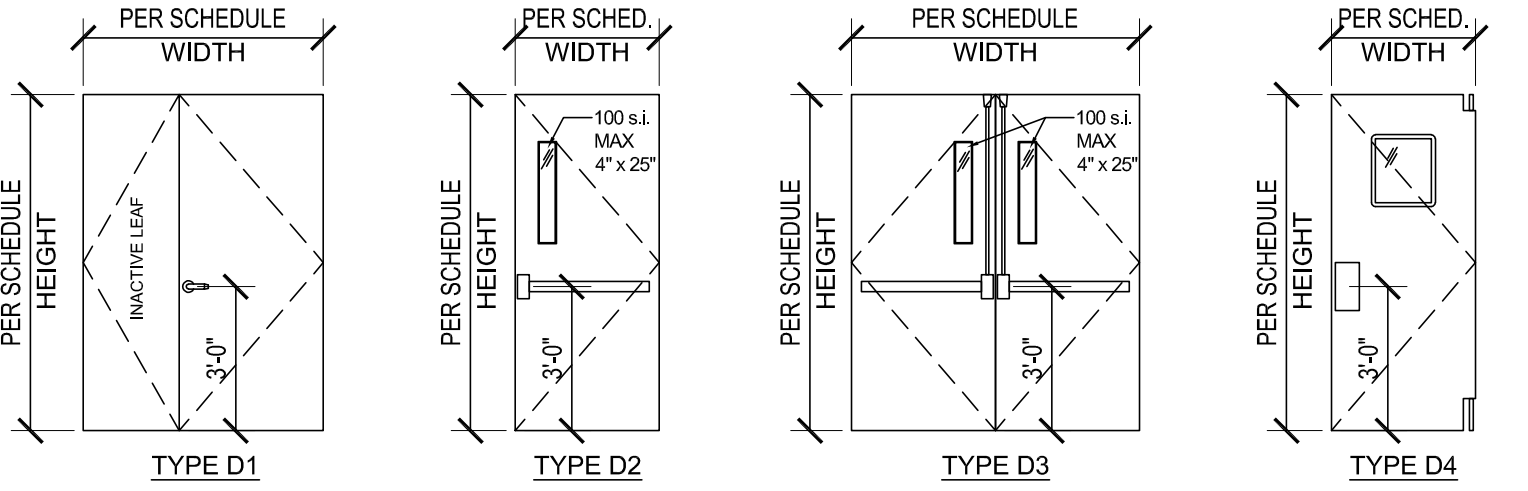
partition identification plan symbol	D1-H	D2-H
basic partition thickness	4-1/4"	6-5/8"
stud size	3-5/8"	6"
metal thickness (gauge)	20 ga	20 ga
insulation thickness		
gwb thickness	5/8"	5/8"
acoustical caulking		
fire caulking		
stud spacing (o.c.)	16"	16"
studs to ceiling		
studs to structure above		
remarks:		

WINDOW COVERING SCHEDULE				
MARK	ROOM NUMBER	WIDTH	HEIGHT	NOTES
A	205	9'-0"	7'-0"	(1) WALL MNTD SWITCH FOR RM 205
B	205	8'-0"	7'-0"	(1) WALL MNTD SWITCH FOR RM 205
C	205	7'-8"	7'-0"	(1) WALL MNTD SWITCH FOR RM 205
D	204	8'-0"	4'-4"	(1) WALL MNTD SWITCH PER BOOTH IN RM 204
E	204	7'-8"	4'-4"	(1) WALL MNTD SWITCH PER BOOTH IN RM 204
F	203	7'-10"	7'-0"	(1) WALL MNTD SWITCH IN RM 203
G.1	203	5'-7"	9'-0"	(1) WALL MNTD SWITCH IN RM 203
G.2	203	1'-9"	7'-0"	(1) WALL MNTD SWITCH IN RM 203
H	203	8'-0"	9'-0"	(1) WALL MNTD SWITCH IN RM 203
J	203	7'-0"	9'-0"	(1) WALL MNTD SWITCH IN RM 203
K	202	7'-5"	2'-0"	(1) WALL MNTD SWITCH IN RM 202
L	202	12'-0"	2'-0"	(1) WALL MNTD SWITCH IN RM 202
M	202	7'-0"	2'-0"	(1) WALL MNTD SWITCH IN RM 202

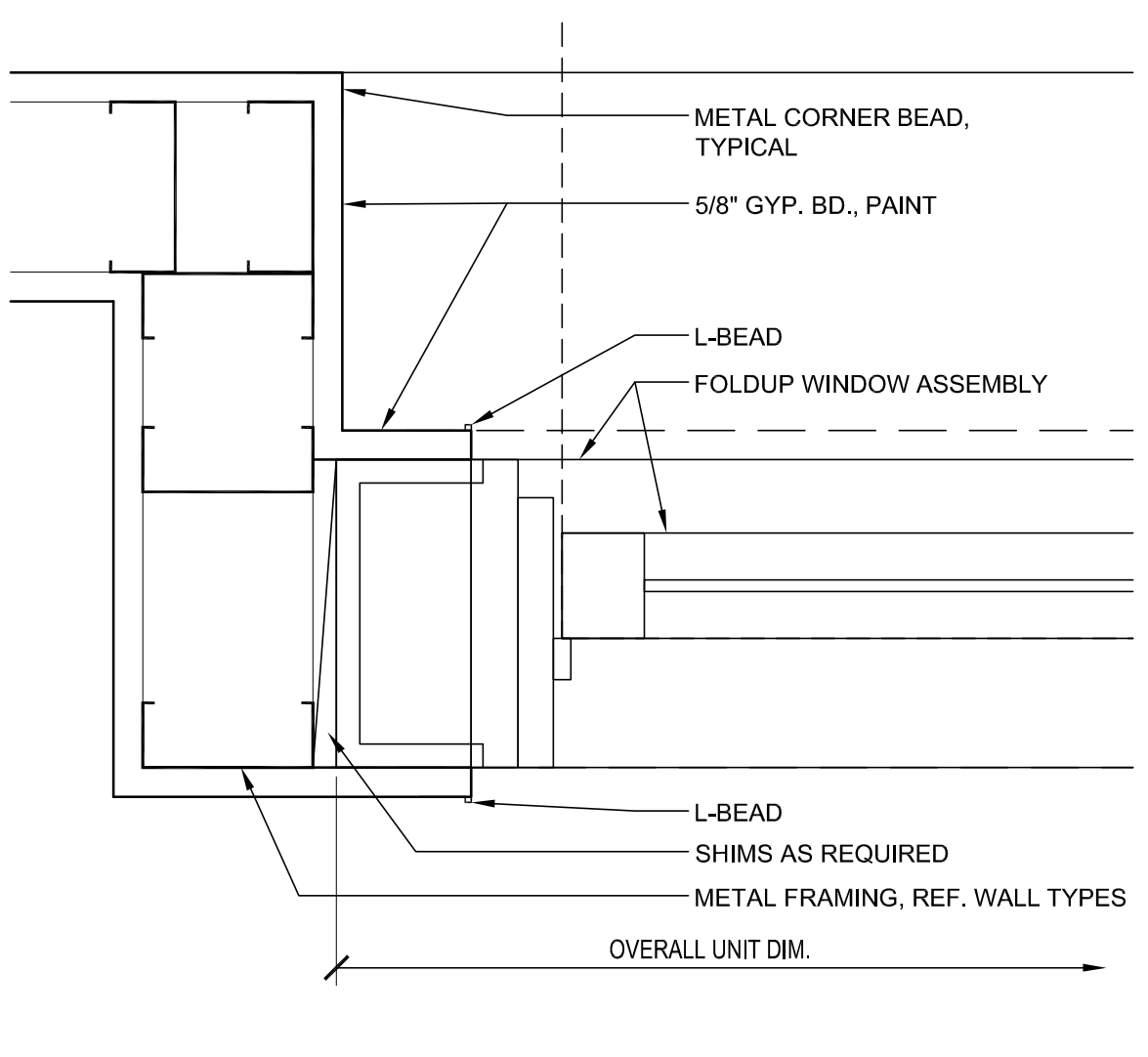
NOTE TO WINDOW COVERING SCHEDULE:
1. BASIS OF DESIGN: "ALTA" ROLLER SHADE W/ BLISS AUTOMATION. SQUARE CASSETTE. BLACK. R80-1% E-SCREEN 09 CHARCOAL/ CHARCOAL FABRIC. 2.0 NM DC MOTOR. OMNI CURVE FABRIC WRAPPED BOTTOM RAIL. BLACK. 15V DC DISTRIBUTION PANEL POWER SUPPLY. PROVIDE COLOR SAMPLES FOR APPROVAL.
2. FIELD VERIFY ALL MEASUREMENTS.

DOOR SCHEDULE														
MARK	FROM ROOM: NUMBER	TO ROOM: NUMBER	WIDTH	HEIGHT	THICKNESS	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	FRAME TYPE	HARDWARE SET	FIRE RATING	COMMENTS
201/01	200	201	4'-0"	7'-0"	1 3/4"	D1	SC - WOOD	PAINT - PT-2	H.M. - 16 ga.	F.F. - PT-2	F1	1.0	45 MIN	PAIR OF DOORS, 36" & 24"
202/01	202	200	3'-0"	7'-0"	1 3/4"	D2	SC - WOOD	PAINT - PT-2	H.M. - 16 ga.	F.F. - PT-2	F1	2.0	45 MIN	
202/02	202	209	22'-10"	9'-0"	1 1/4"	D5	TEMP. GLASS	CLEAR	ALUM.	ANODIZED BLACK	MANUF.	3.0	-	NANA WALL SYSTEM - HSW75-C
202/03	202	203	21'-4"	9'-0"	1 1/4"	D6	TEMP. GLASS	CLEAR	ALUM.	ANODIZED BLACK	MANUF.	3.0	-	NANA WALL SYSTEM - HSW75-C
207/01	207	208	3'-0"	7'-0"	-	D4	PVC / ABS	FF - BLACK	H.M.	F.F.	-	4.0	-	SEE NOTE 1
208/01	208	209	3'-0"	7'-0"	-	D4	PVC / ABS	FF - BLACK	H.M.	F.F.	-	4.0	-	SEE NOTE 1
209/01	209	200	6'-0"	7'-0"	1 3/4"	D3	SC - WOOD	PAINT - PT-2	H.M. - 16 ga.	F.F. - PT-2	F1	5.0	45 MIN	PAIR OF DOORS, 36" & 36"
209/02	209	-	3'-0"	7'-0"	1 3/4"	D2	SC - WOOD	PAINT - PT-2	H.M. - 16 ga.	F.F. - PT-2	F1	6.0	45 MIN	
209/03	209	210	EX - 6'-0"	EX - 7'-0"	EX - 1 3/4"	-	EX	PAINT - PT-2	EX	EX - PT-2	EX	7.0	EXIST	EX. PAIR OF DOORS, 36" & 36", SEE NOTE 2

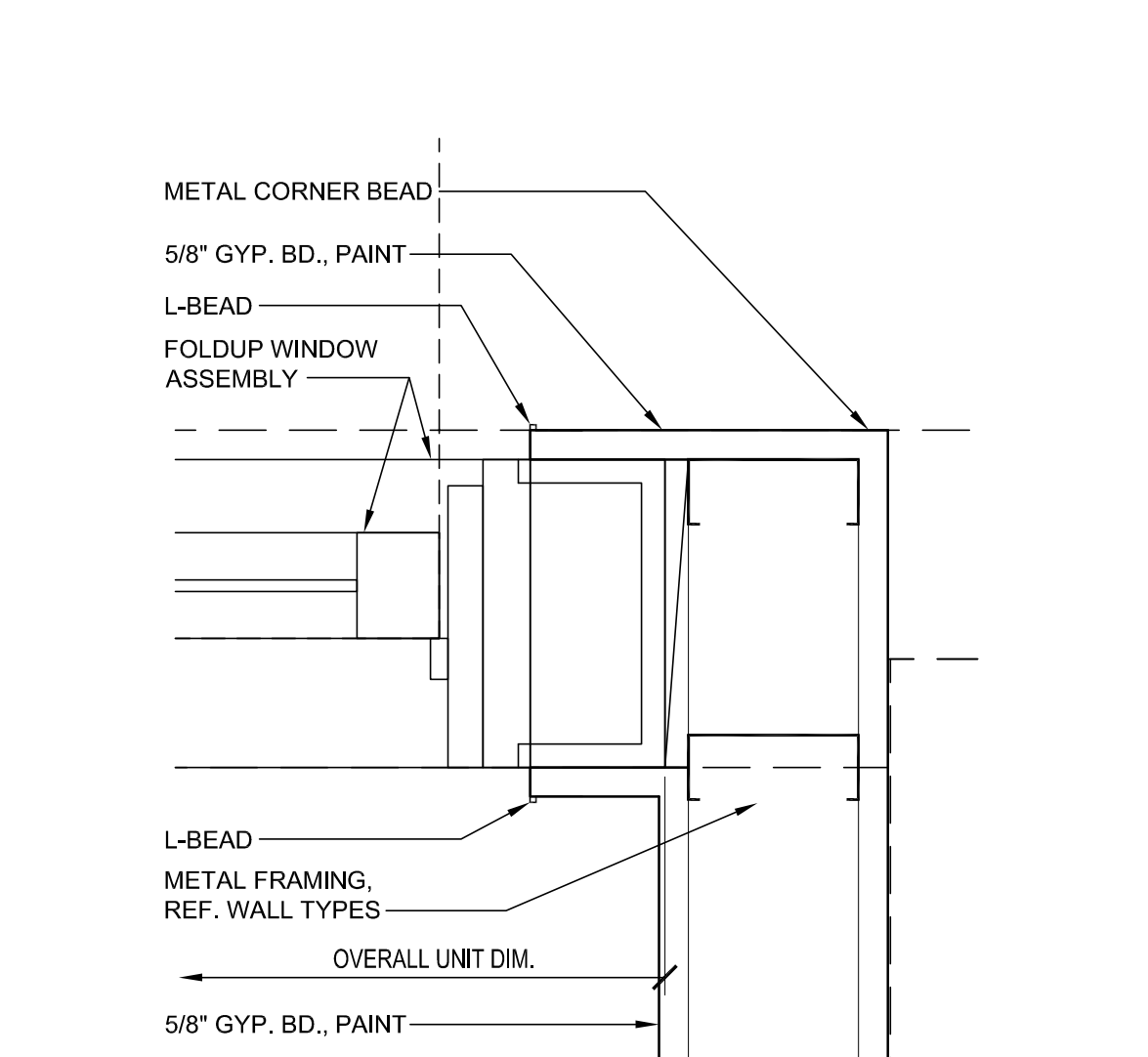
NOTE TO DOOR SCHEDULE:
1. BASIS OF DESIGN: "CHASE DOORS" PROLINE 300i WITH WINDOW. PROVIDE COLOR SAMPLES FOR APPROVAL.
2. EXISTING DOOR, SAND AND PREP FOR NEW STAIN. REMOVE HARDWARE AS NEEDED TO REFINISH DOOR PANEL. SAND / PREP. FRAME TRIM FOR PAINT.



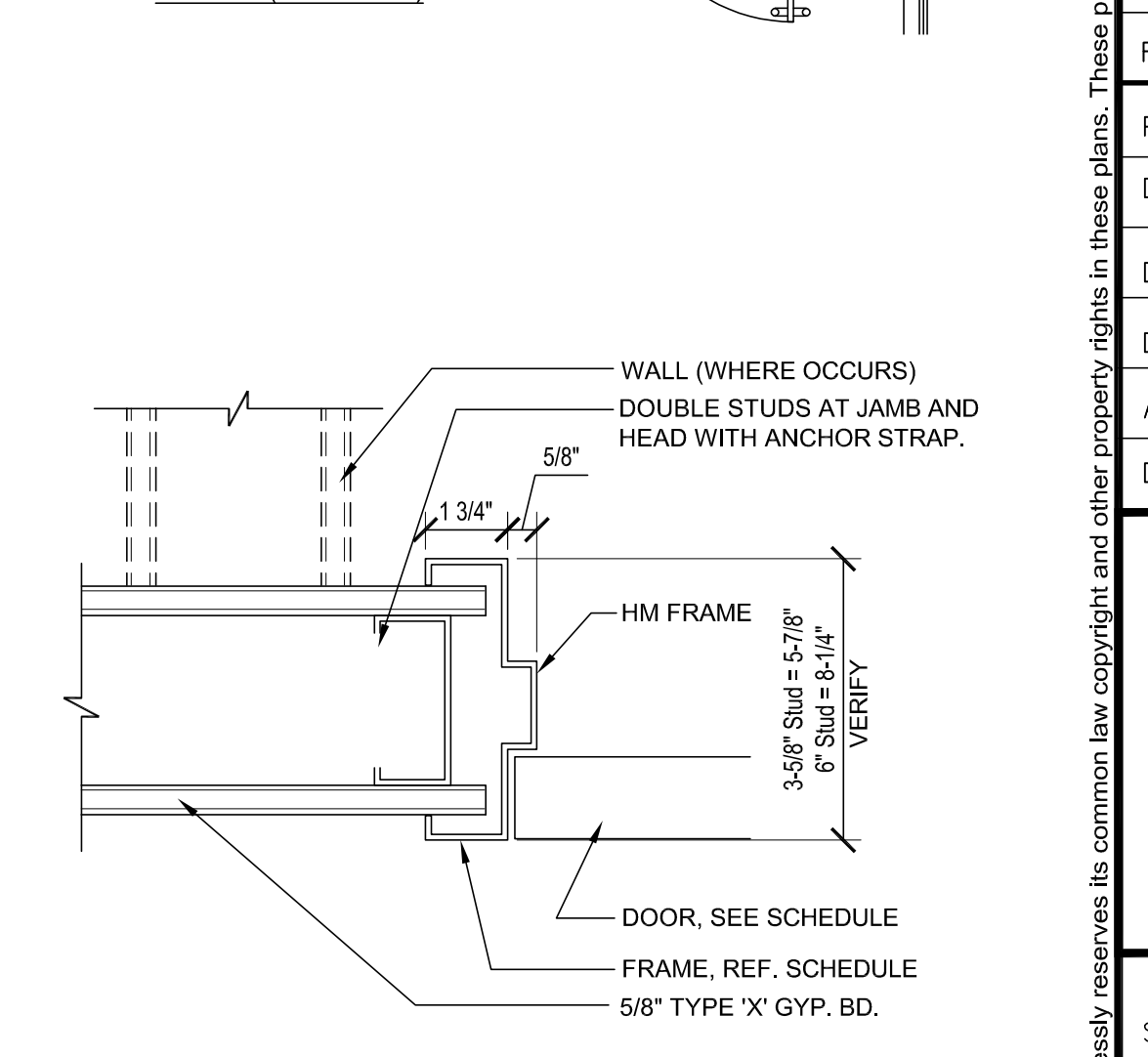
A2 WINDOW HEAD DETAIL
SCALE: 3"=1'-0"



A3 WINDOW JAMB DETAIL
SCALE: 3"=1'-0"



A4 WINDOW JAMB DETAIL
SCALE: 3"=1'-0"



A5 DOOR JAMB DETAIL
SCALE: 3"=1'-0"

WALL, DOOR & WINDOW SCHEDULES

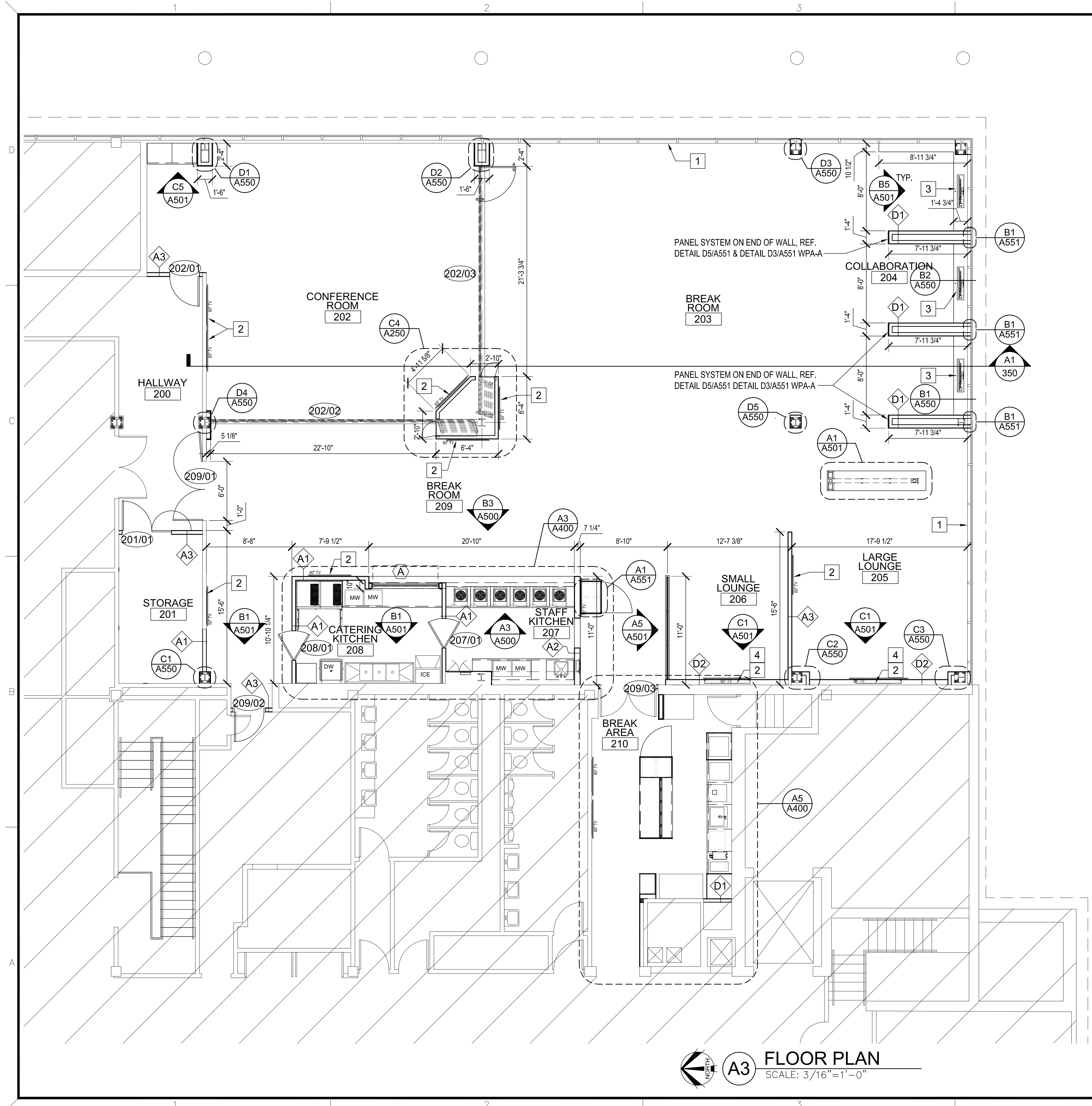
Farmers Alliance Mutual Insurance
1122 North Main
McPherson, Kansas 67460

PLAN4 ARCHITECTURE DESIGN www.plan4arch.com
303 north main st., mcpherson kansas 67024-1435

Contract Date	
Rev No. 1	
Rev No. 2	
Rev No. 3	
Rev No. 4	
Rev No. 5	
Rev No. 6	
Project Number:	23.20
DWG File	A020.dwg
Designed By:	plan4
Drawn By:	GSC
Approved By:	plan4
Date:	03.25.24



SHEET NUMBER
A020
11 x 17 = 1/2 scale



PLAN KEY NOTES:

- 1 EXISTING EXTERIOR CURTAIN WALL ASSEMBLY
- 2 WALL MOUNTED TV. PROVIDE BLOCKING IN WALL AS REQUIRED. PROVIDE 2" CONDUIT DOWN WALL TO RECESSED BOX WITH POWER AND VIDEO HOOK UP. COORDINATE REQNMNT WITH OWNER'S I.T. REP.
- 3 TV WITH POP-UP LIFT, BASIS OF DESIGN - "NEXUS 21" MODEL L-27 (FOR UP TO 48" TV). PROVIDE DPH BUTTON.
- 4 ELECTRIC FIRE PLACE, BASIS OF DESIGN - "NAPOLEON ALLURAVISION SLIMLINE. 60" - ROOM 205 AND 42" - ROOM 206.

Architect hereby expressly reserves its common law copyright and other property rights in these plans. These plans and drawings are not to be reproduced, changed, copied or assigned to any third party, in any form or manner whatsoever without first obtaining the express written permission of Plan 4 Architecture Design.



FLOOR PLAN
 Farmers Alliance Mutual Insurance
 1122 North Main
 McPherson, Kansas 67460

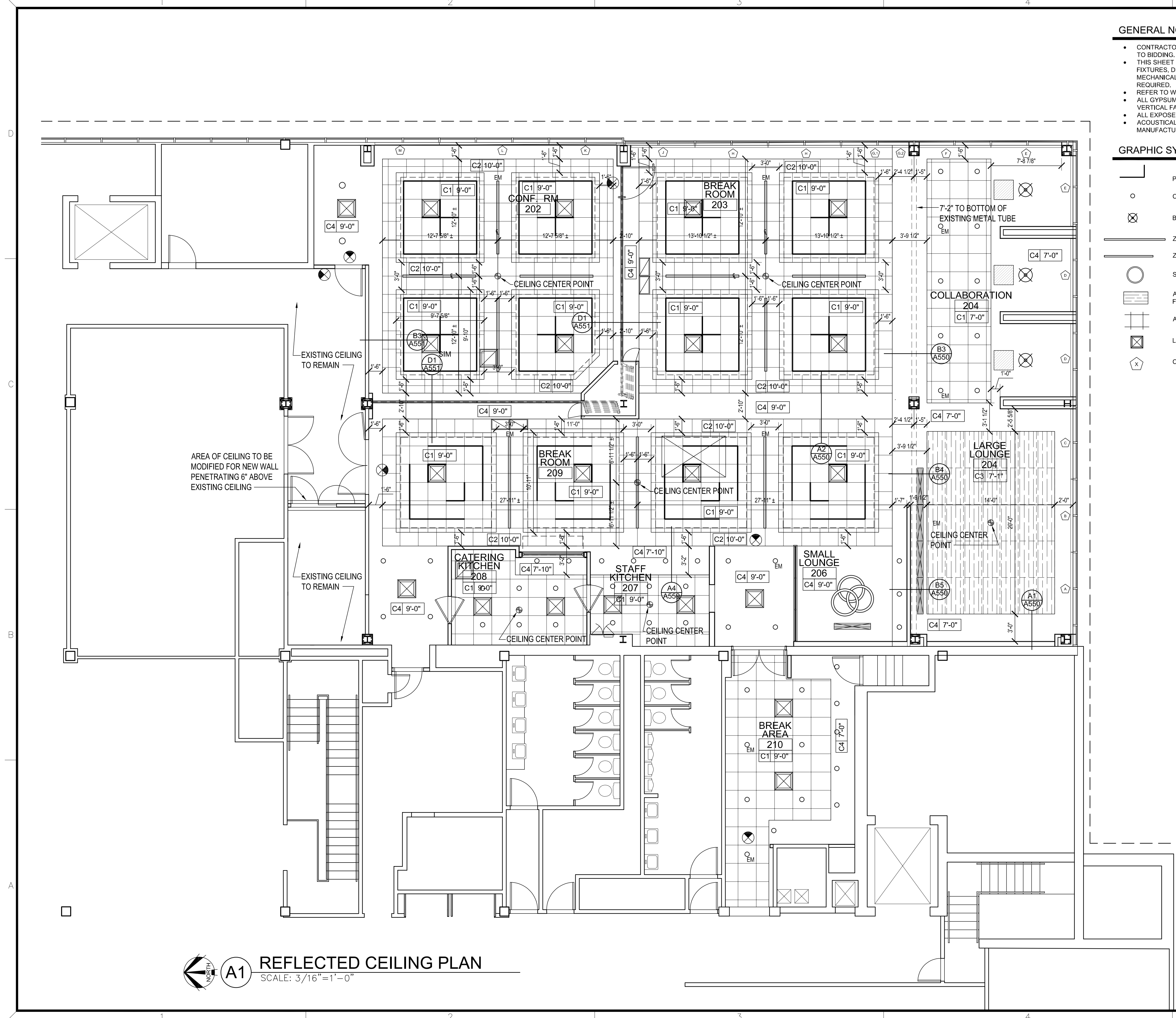
Contract Date	
Rev No. 1	
Rev No. 2	
Rev No. 3	
Rev No. 4	
Rev No. 5	
Rev No. 6	
Project Number:	23.20
DWG File	
Designed By:	plan4
Drawn By:	GSC
Approved By:	plan4
Date:	03.25.24



A3 FLOOR PLAN
SCALE: 3/16"=1'-0"

11 x 17 = 1/2 scale

SHEET NUMBER
A102



A1 REFLECTED CEILING PLAN
SCALE: 3/16" = 1'-0"

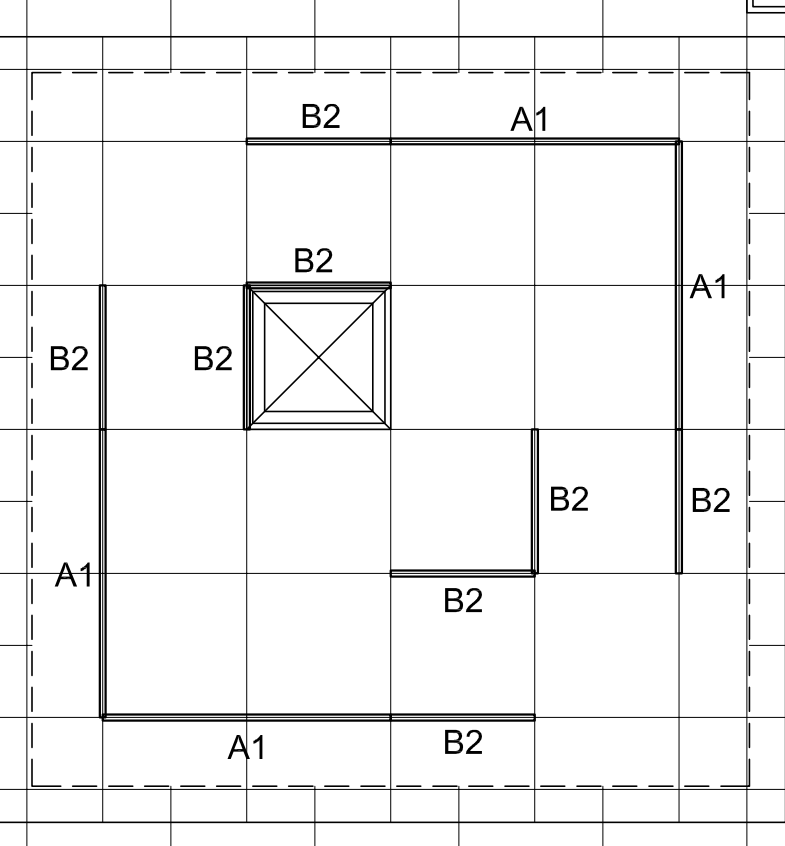
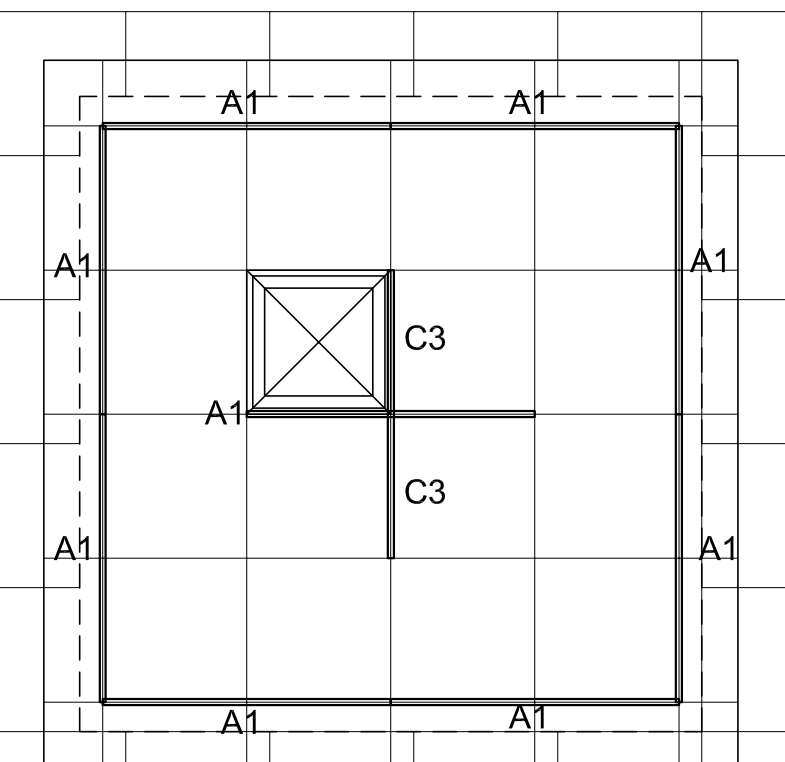
GENERAL NOTES:

- CONTRACTOR TO VERIFY EXISTING SITE AND BUILDING CONDITIONS PRIOR TO BIDDING.
- THIS SHEET IS FOR GENERAL INFORMATION ONLY. NOT ALL CEILING LIGHT FIXTURES, DEVICES, MECHANICAL DIFFUSERS, GRILLES, ETC. ARE SHOWN. MECHANICAL AND ELECTRICAL ENGINEER TO DESIGN AND SPEC AS REQUIRED.
- REFER TO WALL TYPES FOR HEIGHTS UNLESS NOTED.
- ALL GYPSUM BOARD SOFFITS SHALL HAVE PAINTED GYPSUM BOARD VERTICAL FACES UNLESS DETAILED OTHERWISE.
- ALL EXPOSED DUCTWORK, PIPING, AND DECK SHALL BE PAINTED.
- ACOUSTICAL CEILING SYSTEM TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.

GRAPHIC SYMBOLS

- PURE EDGE FREEFORM TBAR CEILING LIGHTS
 - CAN STYLE LIGHT FIXTURE
 - BRUMMEL GRANDE PENDANT, CHARCOAL GRAY
 - ZANEEN IDAHO 75 SUSPENSION 10', BLACK VELVET
 - ZANEEN IDAHO 75 SUSPENSION 8', BLACK VELVET
 - SOLERA CIRC-II-PENDANT 36", BLACK
 - ARKTURA VAPOR VERVE T-GRID WHITE W/ FROSTED BACKER, BACKLIT
 - ACOUSTICAL CEILING SYSTEM - CLASS A
 - LAY-IN CEILING DIFFUSER - SQUARE PLAQUE
 - CEILING MOUNTED WINDOW COVERING, REF. SHEET A020
- CLASSROOM 4** — ROOM NAME
122 — ROOM NUMBER
C1 9'-6" — CEILING HEIGHT
— CEILING FINISH

TYPE
A1 - 48"
B2 - 24"
C3 - 23"



A5 CEILING CLOUD PLAN
SCALE: 3/8" = 1'-0"

Architect hereby expressly reserves its common law copyright and other property rights in these plans. These plans and drawings are not to be reproduced, changed, copied or assigned to any third party, in any form or manner whatsoever without first obtaining the express written permission of Plan 4 Architecture Design.

REFLECTED CEILING PLAN

Farmers Alliance Mutual Insurance
1122 North Main
McPherson, Kansas 67460

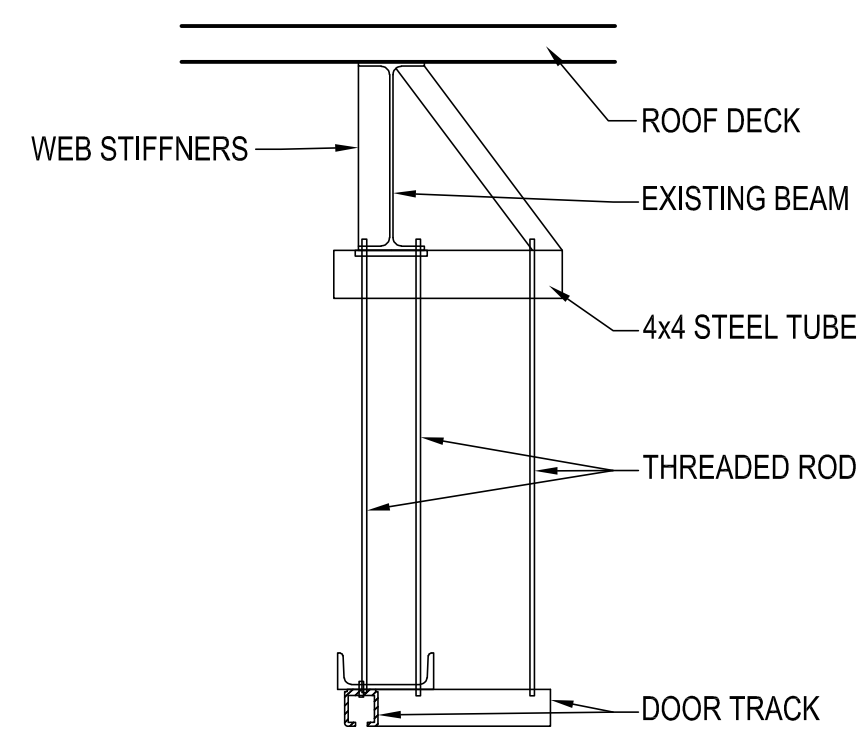
Contract Date	
Rev No. 1	
Rev No. 2	
Rev No. 3	
Rev No. 4	
Rev No. 5	
Rev No. 6	
Project Number:	23.20
DWG File	A151.dwg
Designed By:	plan4
Drawn By:	CJH
Approved By:	plan4
Date:	03.25.24



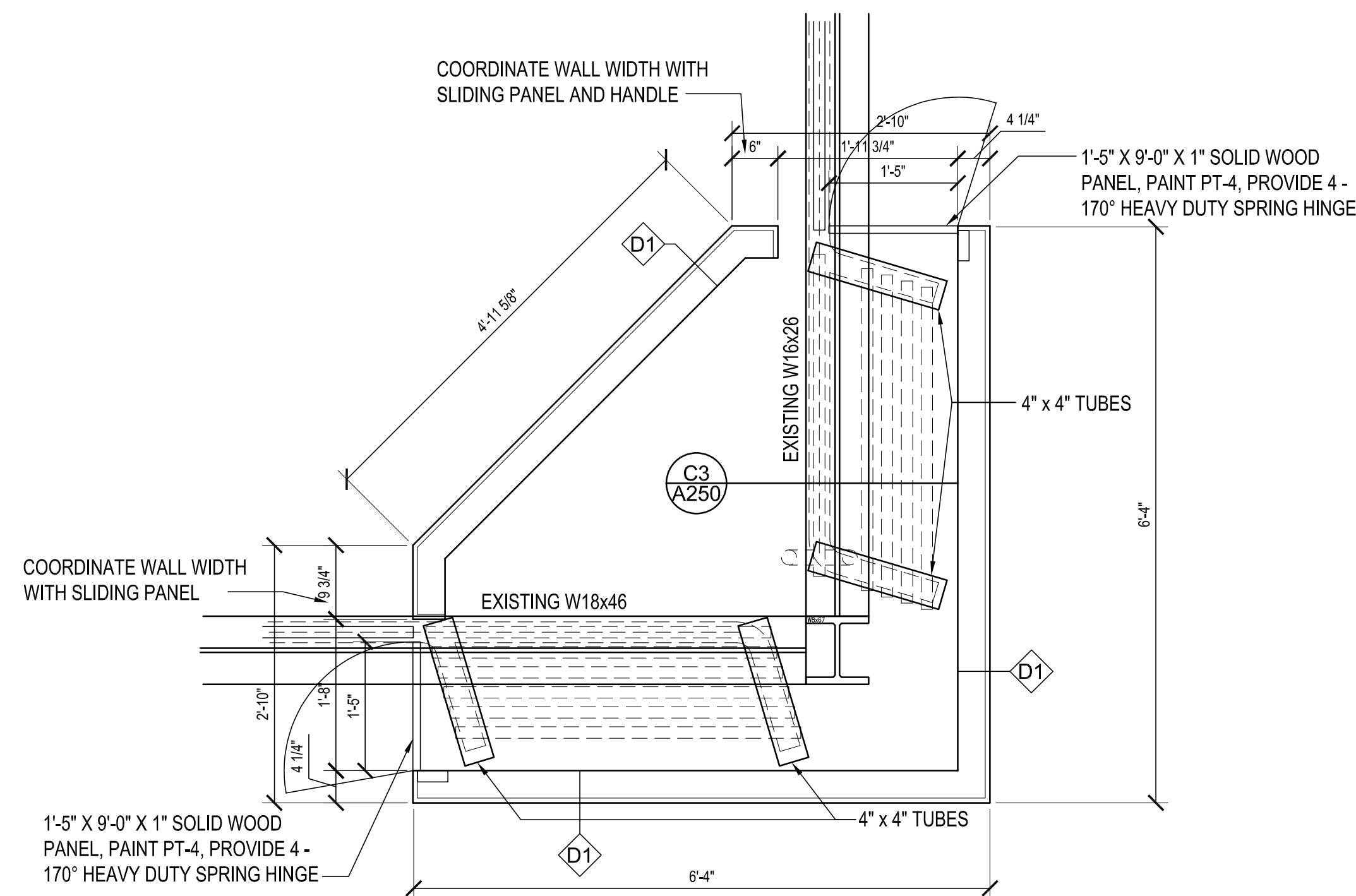
SHEET NUMBER

A152

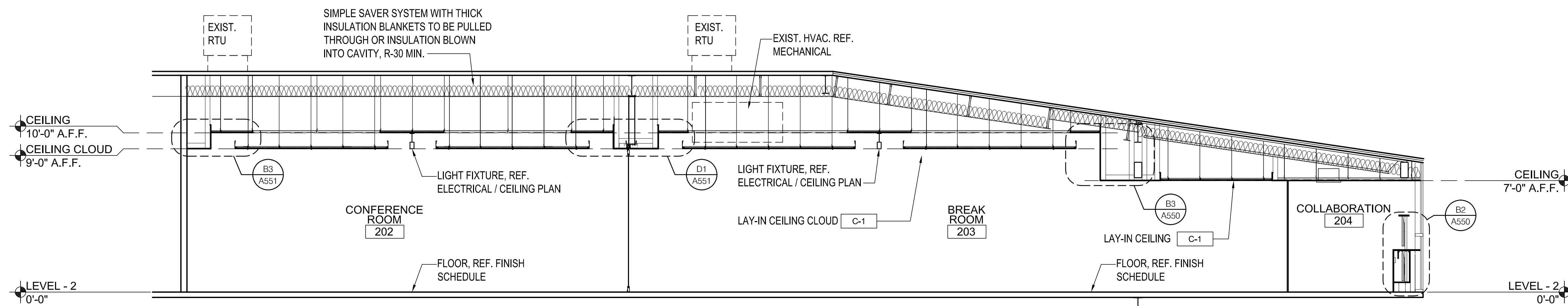
11 x 17 = 1/2 scale



C3 DOOR SUSPENSION DETAIL
SCALE: 3/4"=1'-0"



C4 DOOR STORAGE PLAN
SCALE: 3/4"=1'-0"



A3 BUILDING SECTION
SCALE: 1/4"=1'-0"

11 x 17 = 1/2 scale

Architect hereby expressly reserves its common law copyright and other property rights in these plans. These plans and drawings are not to be reproduced, changed, copied or assigned to any third party, in any form or manner whatsoever without first obtaining the express written permission of Plan 4 Architecture Design.

PLAN4
ARCHITECTURE DESIGN
www.plan4arch.com
303 north main st., mcpherson kansas 67241-4353

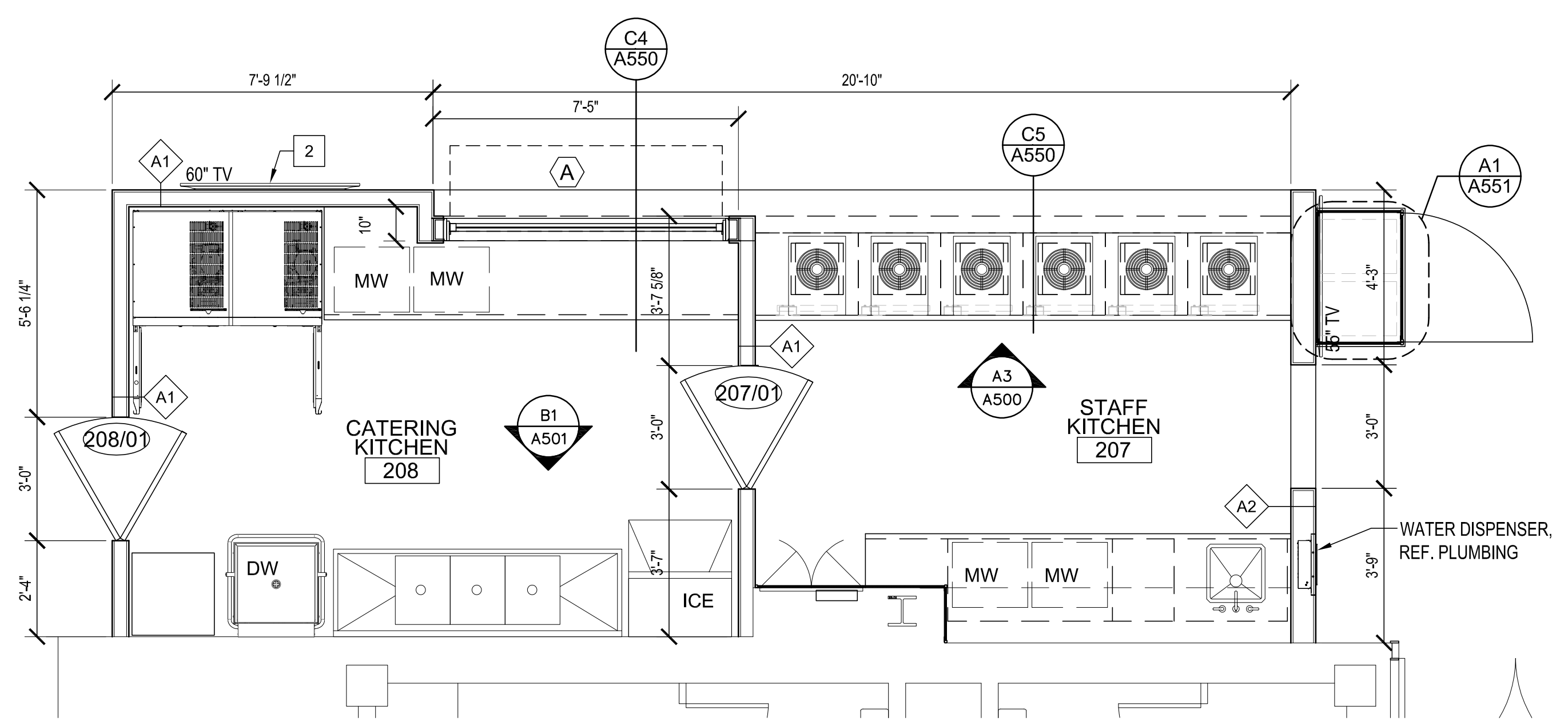
BUILDING SECTION

Farmers Alliance Mutual Insurance
1122 North Main
McPherson, Kansas 67460

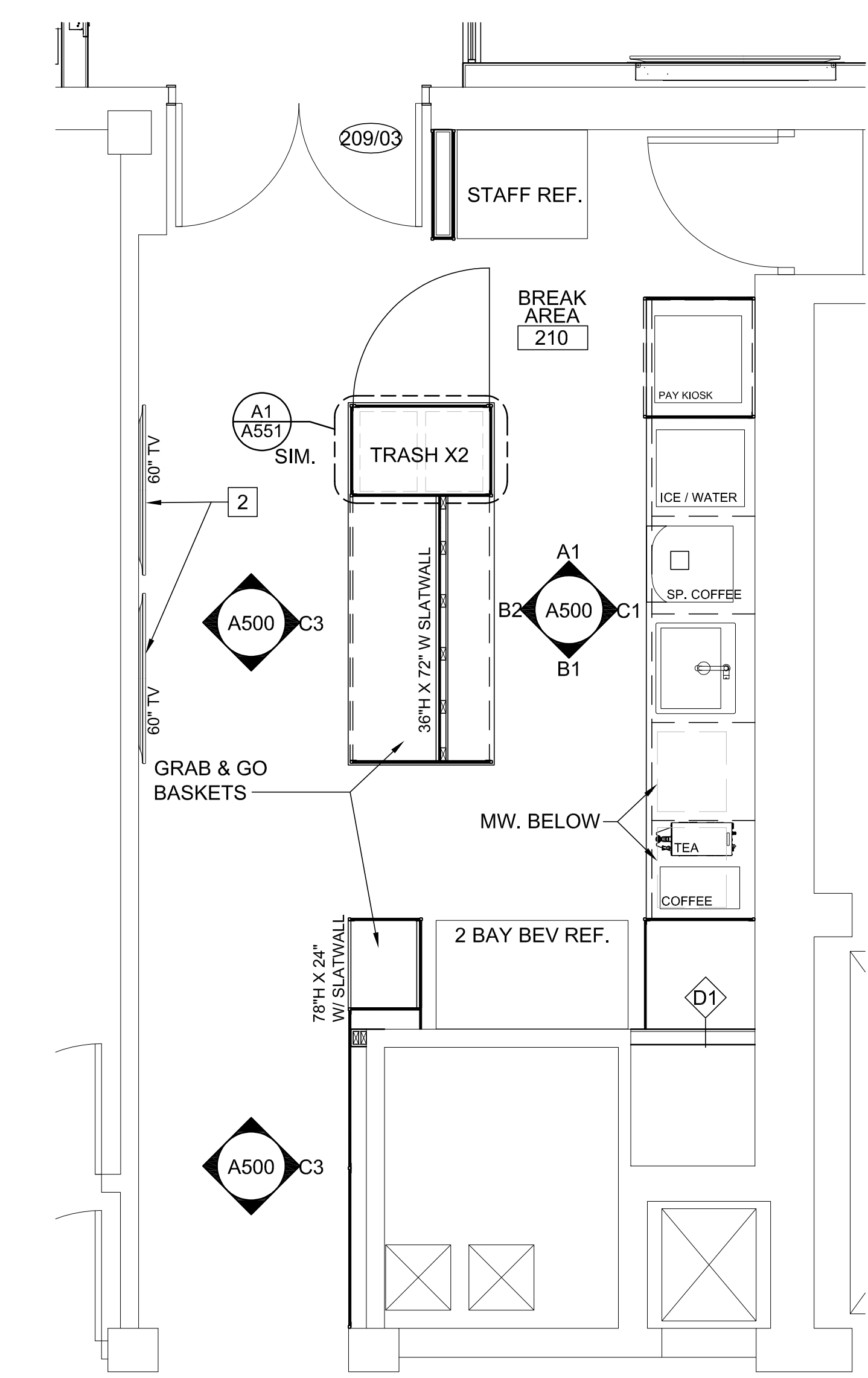
Contract Date	
Rev No. 1	
Rev No. 2	
Rev No. 3	
Rev No. 4	
Rev No. 5	
Rev No. 6	
Project Number:	23.20
DWG File	
Designed By:	plan4
Drawn By:	GSC
Approved By:	plan4
Date:	03.25.24



SHEET NUMBER
A250



A2 ENLARGED PLAN
SCALE: 3/8"=1'-0"



A5 ENLARGED PLAN
SCALE: 3/8"=1'-0"

11 x 17 = 1/2 scale

ENLARGED FLOOR PLAN

Farmers Alliance Mutual Insurance
1122 North Main
McPherson, Kansas 67460

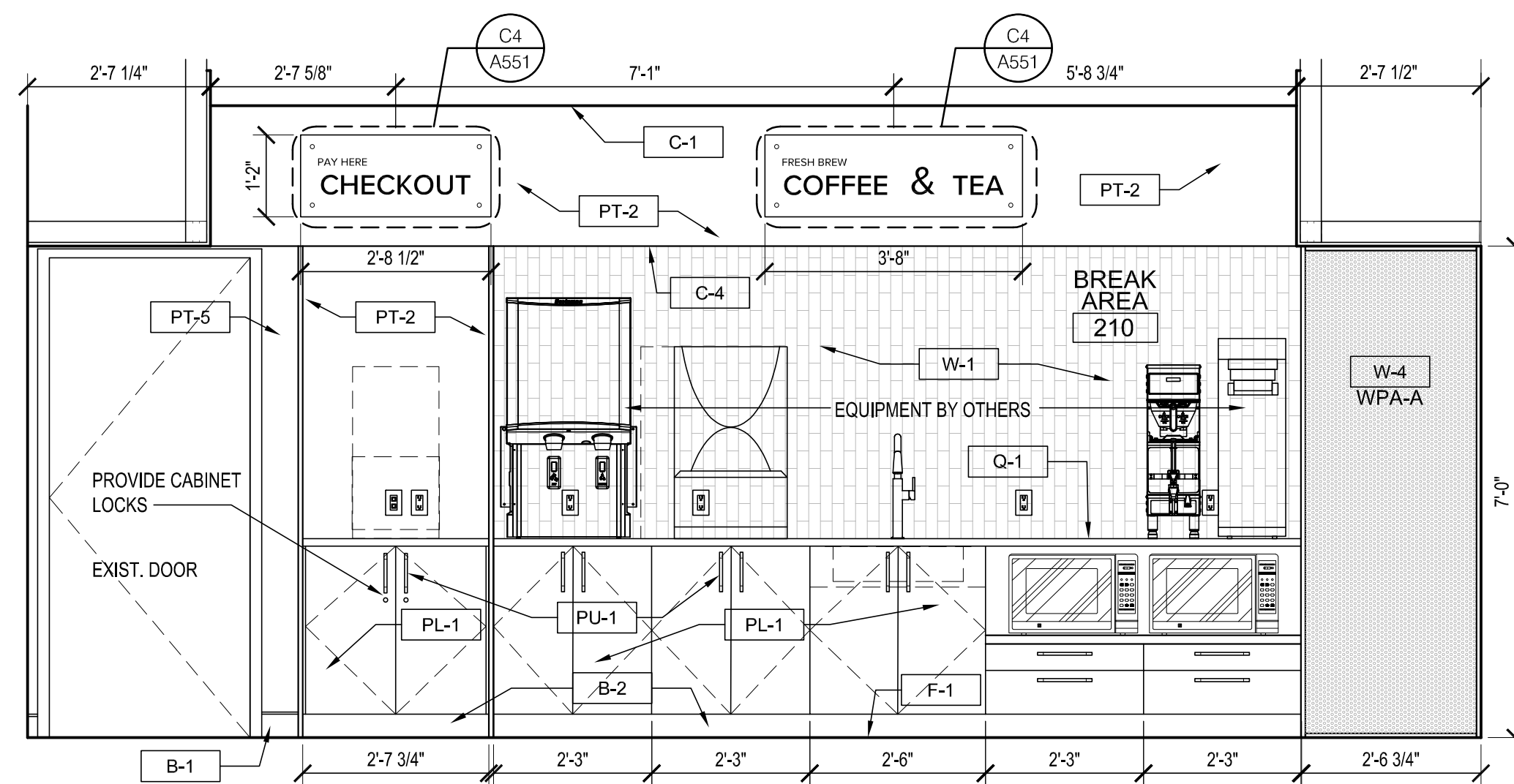
Contract Date	
Rev No. 1	
Rev No. 2	
Rev No. 3	
Rev No. 4	
Rev No. 5	
Rev No. 6	
Project Number:	23.20
DWG File	A400.dwg
Designed By:	plan4
Drawn By:	GSC
Approved By:	plan4
Date:	03.25.24



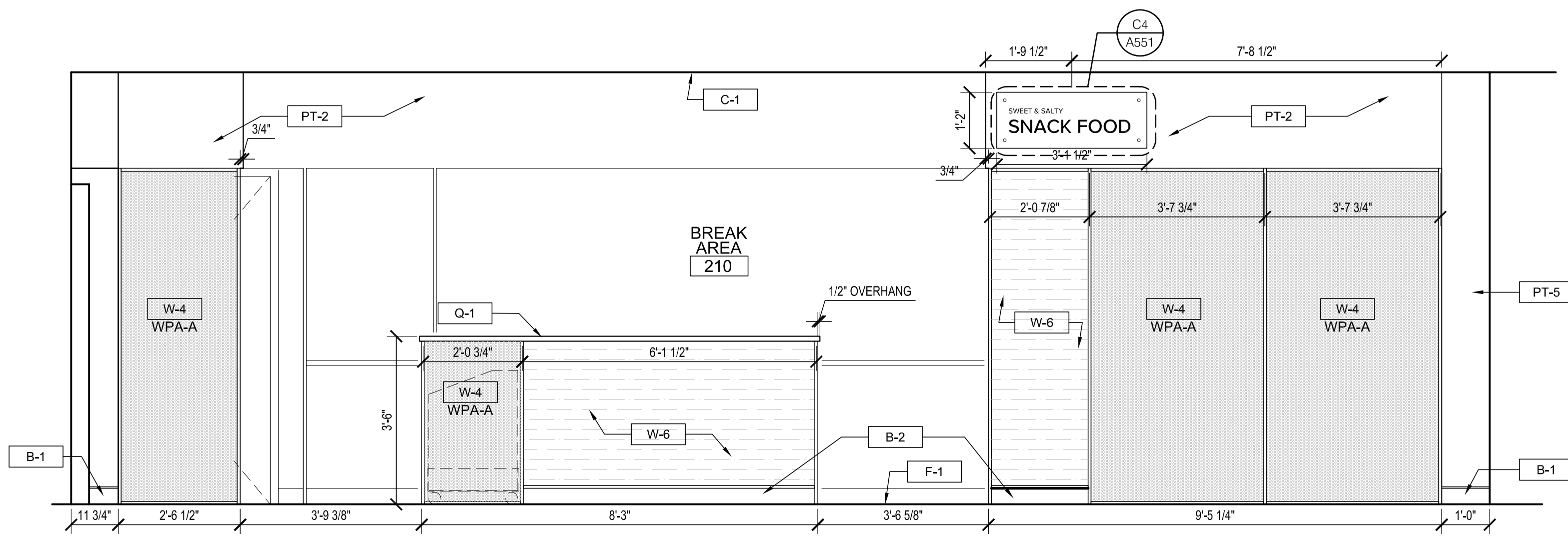
SHEET NUMBER

A400

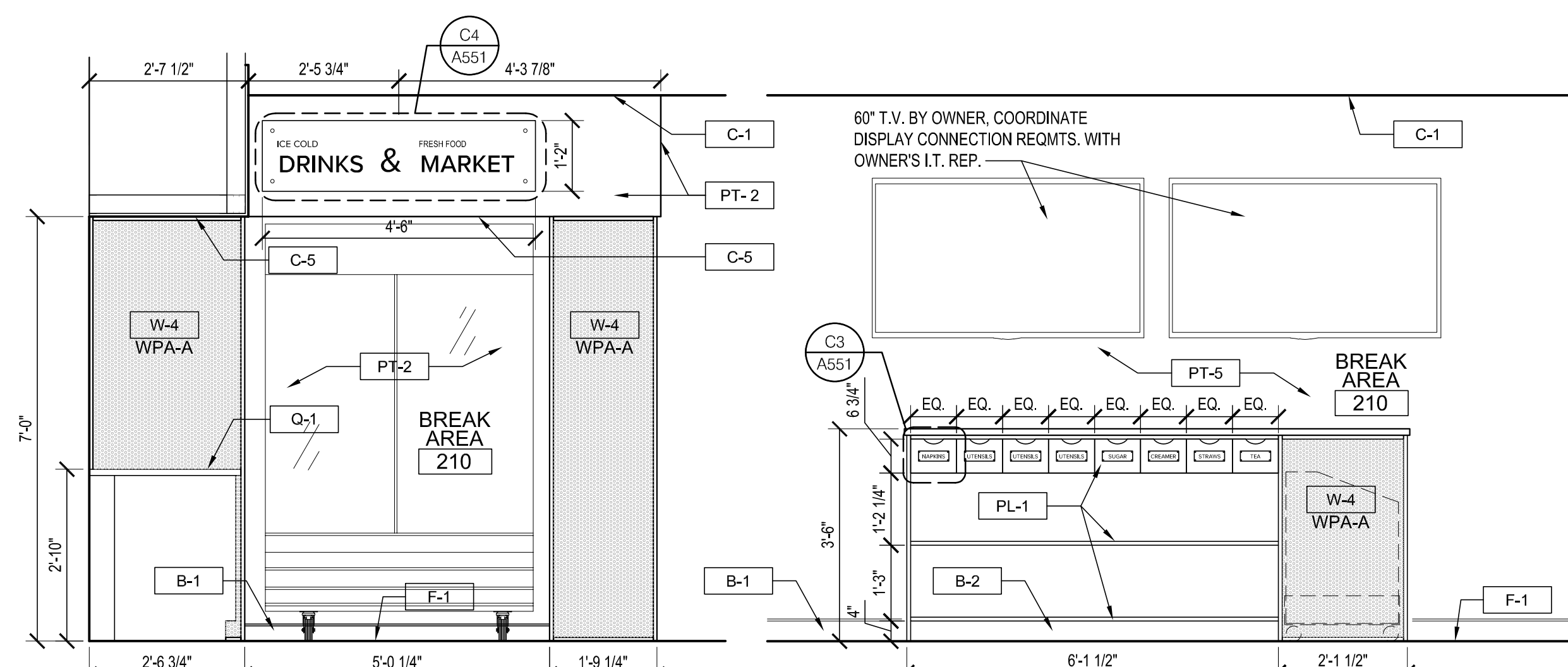
Architect hereby expressly reserves its common law copyright and other property rights in these plans. These plans and drawings are not to be reproduced, changed, copied or assigned to any third party, in any form or manner whatsoever without first obtaining the express written permission of Plan 4 Architecture Design.



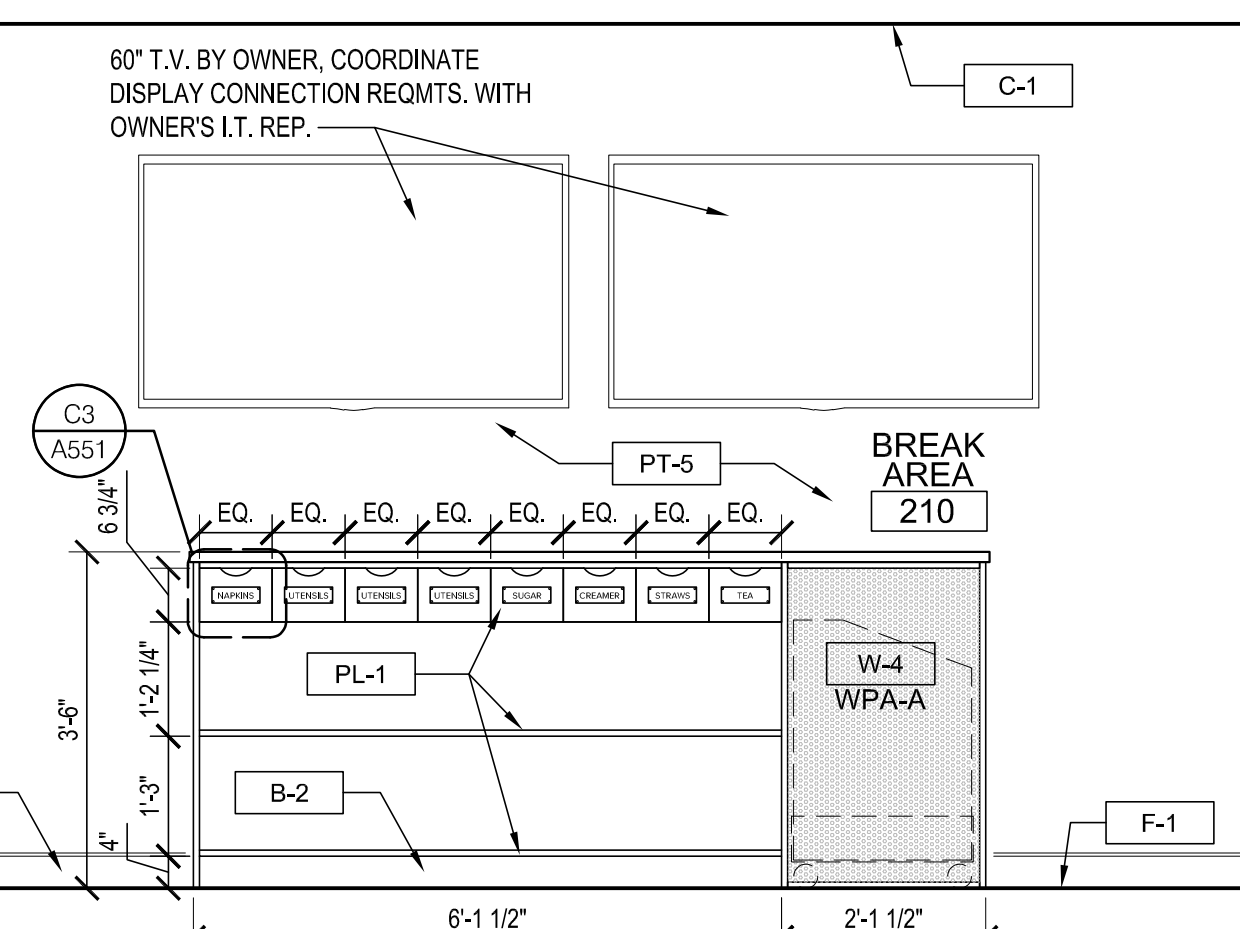
C1 SOUTH BREAK AREA ELEVATION
SCALE: 1/2"=1'-0"



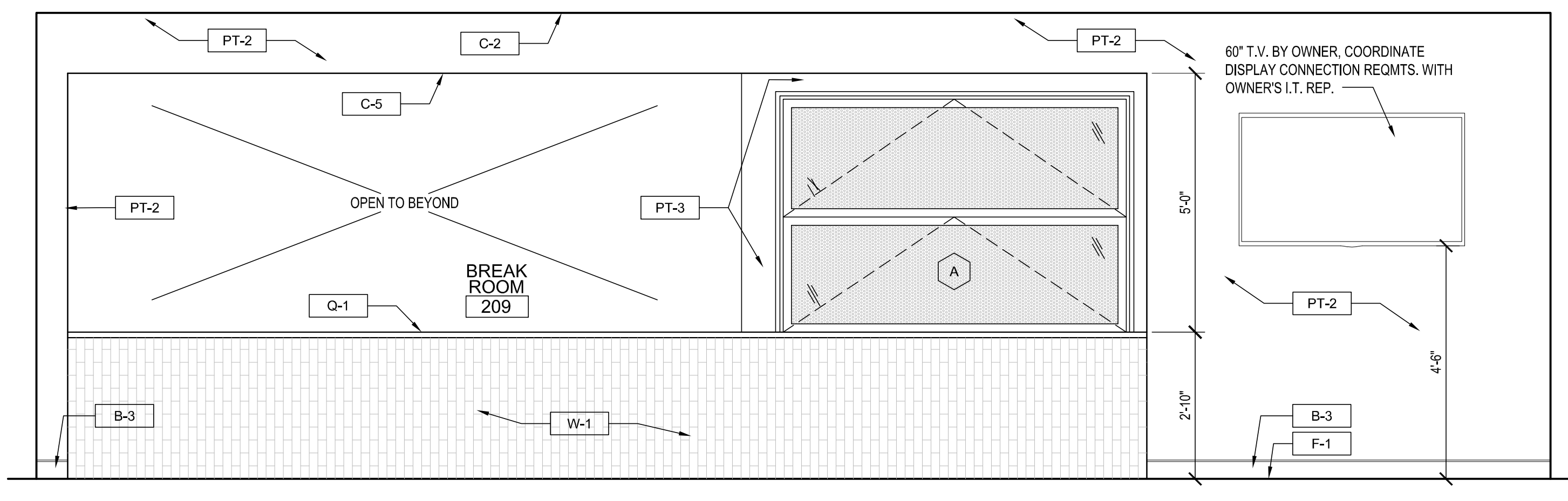
C3 NORTH BREAK AREA ISLAND ELEVATION
SCALE: 1/2"=1'-0"



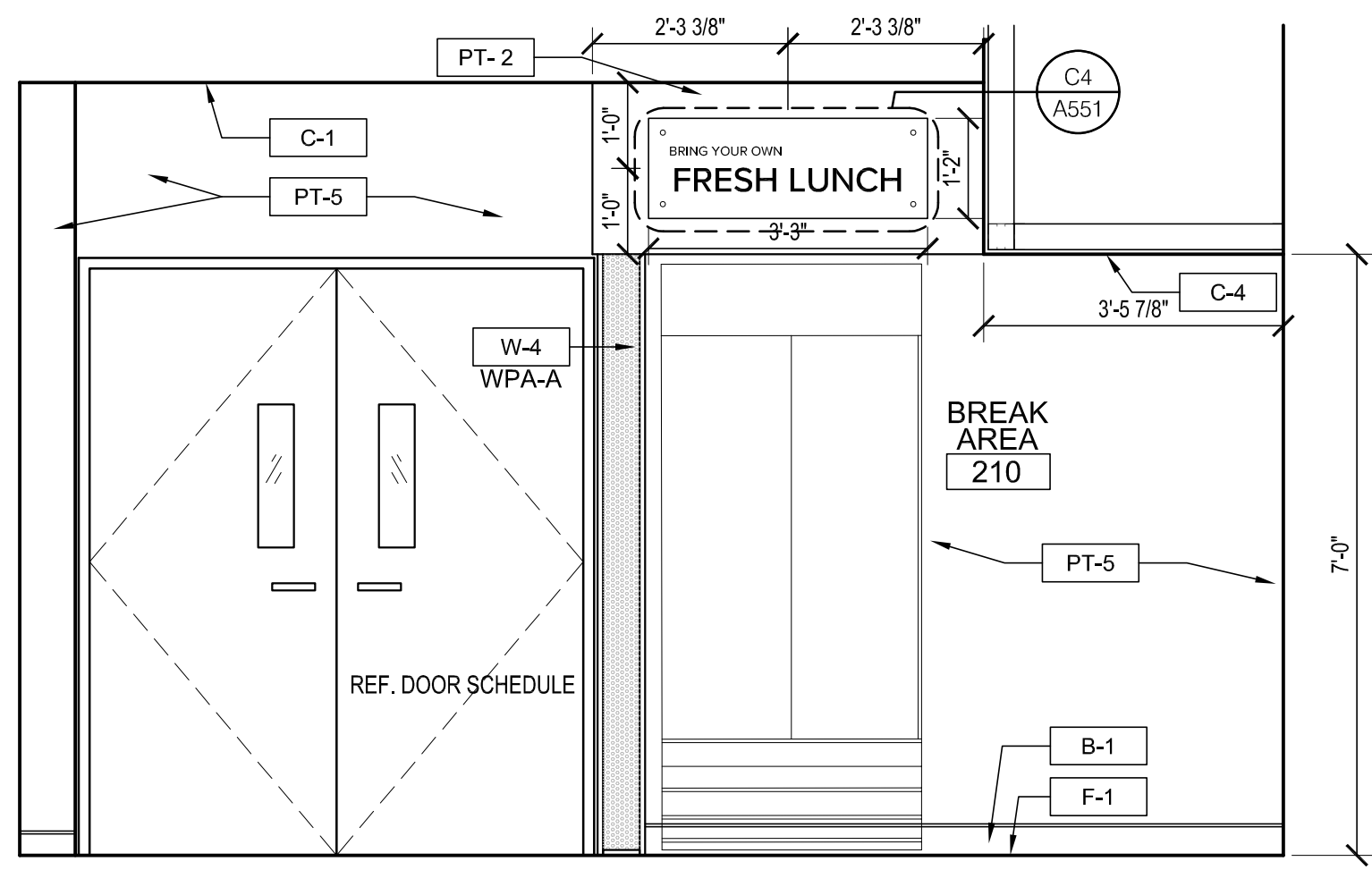
B1 WEST BREAK AREA ELEV.
SCALE: 1/2"=1'-0"



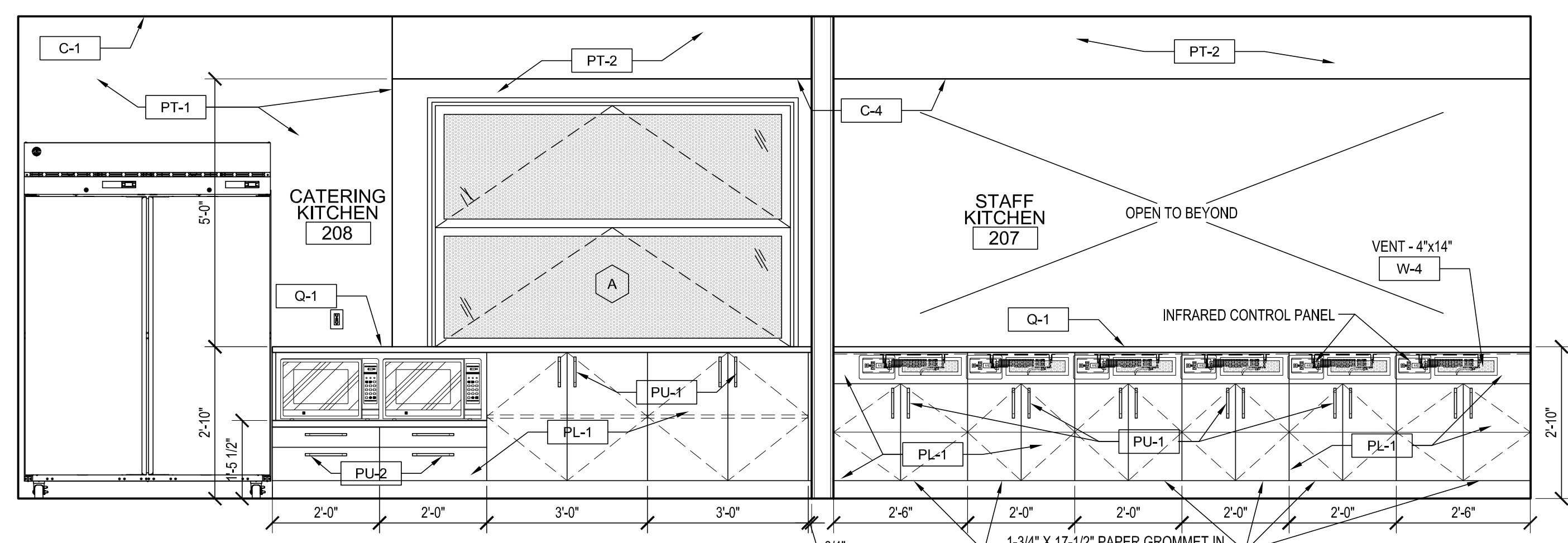
B2 SOUTH BREAK AREA ISLAND ELEV.
SCALE: 1/2"=1'-0"



B3 WEST BREAK ROOM ELEVATION
SCALE: 1/2"=1'-0"



A1 EAST BREAK AREA ELEVATION
SCALE: 1/2"=1'-0"



A3 EAST KITCHEN ELEVATION
SCALE: 1/2"=1'-0"

INTERIOR ELEVATIONS

Farmers Alliance Mutual Insurance
1122 North Main
McPherson, Kansas 67460

Contract Date	
Rev No. 1	
Rev No. 2	
Rev No. 3	
Rev No. 4	
Rev No. 5	
Rev No. 6	
Project Number:	23.20
DWG File	
Designed By:	plan4
Drawn By:	GSC
Approved By:	plan4
Date:	03.25.24



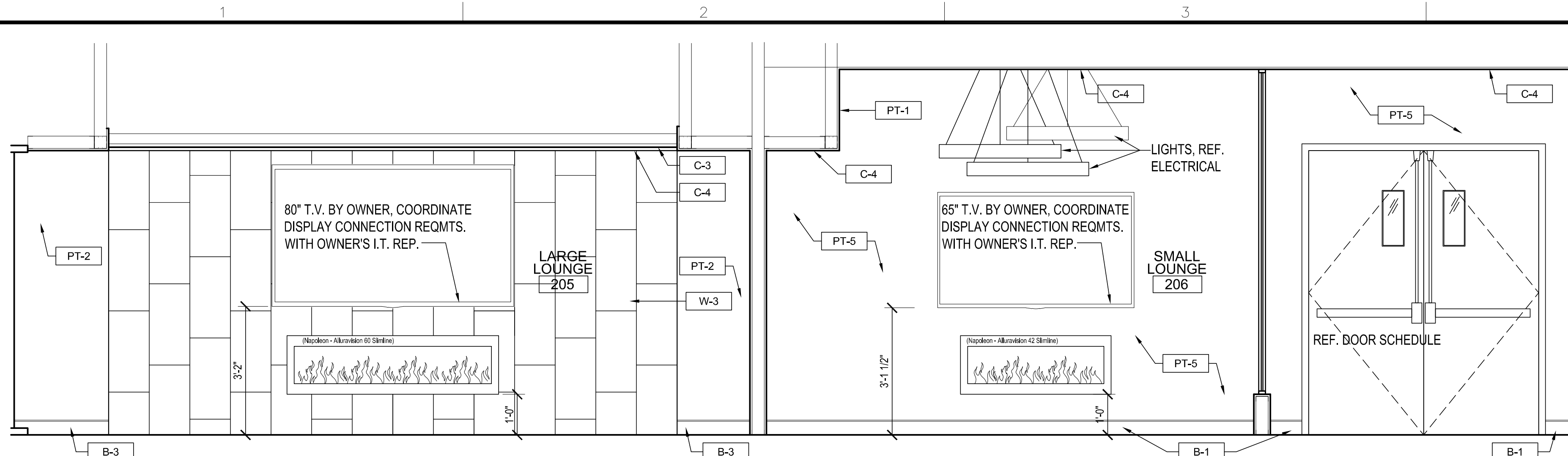
SHEET NUMBER

A500

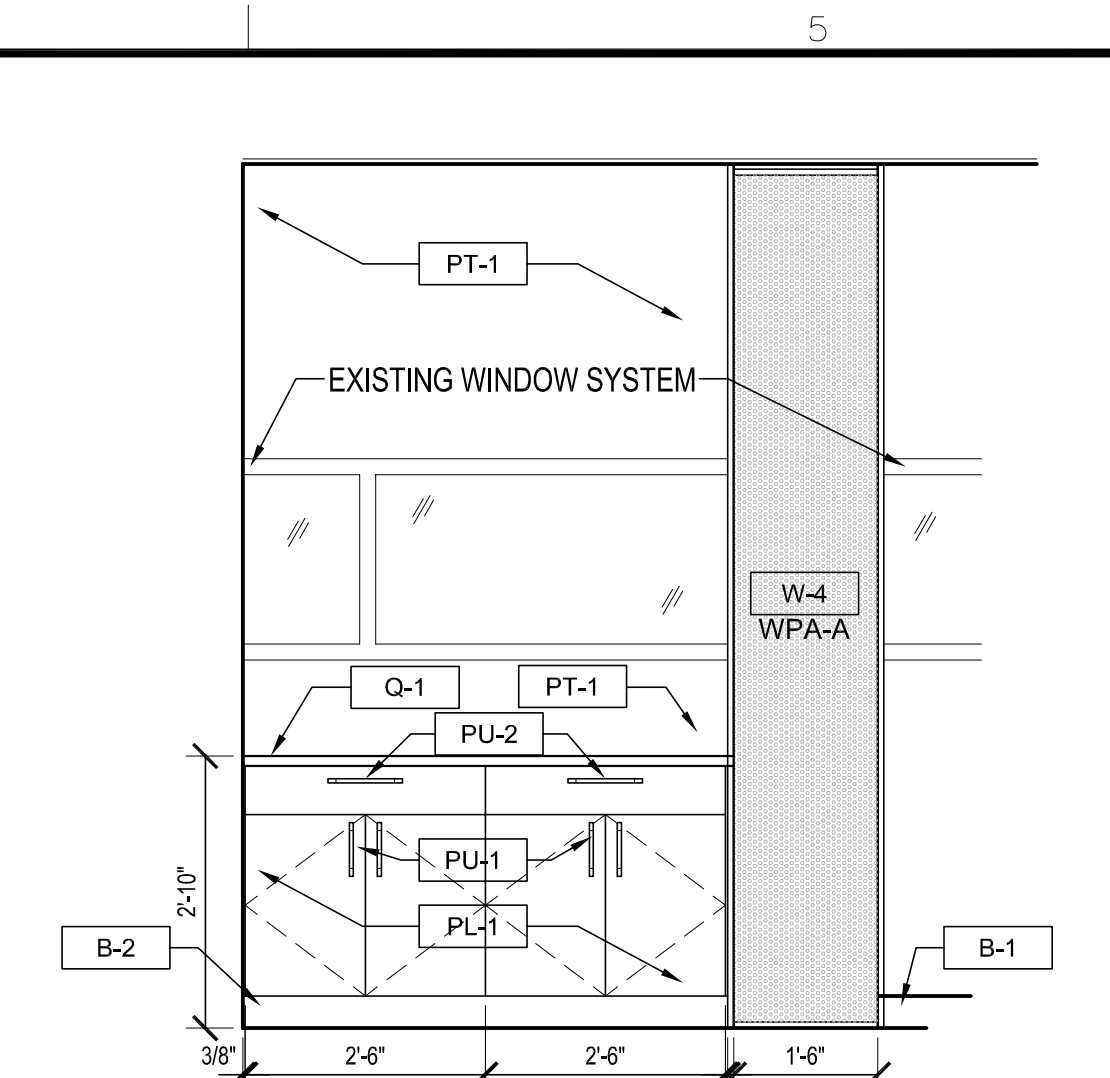
11 x 17 = 1/2 scale

Architect hereby expressly reserves its common law copyright and other property rights in these plans. These plans and drawings are not to be reproduced, changed, copied or assigned to any third party, in any form or manner whatsoever without first obtaining the express written permission of Plan 4 Architecture Design.

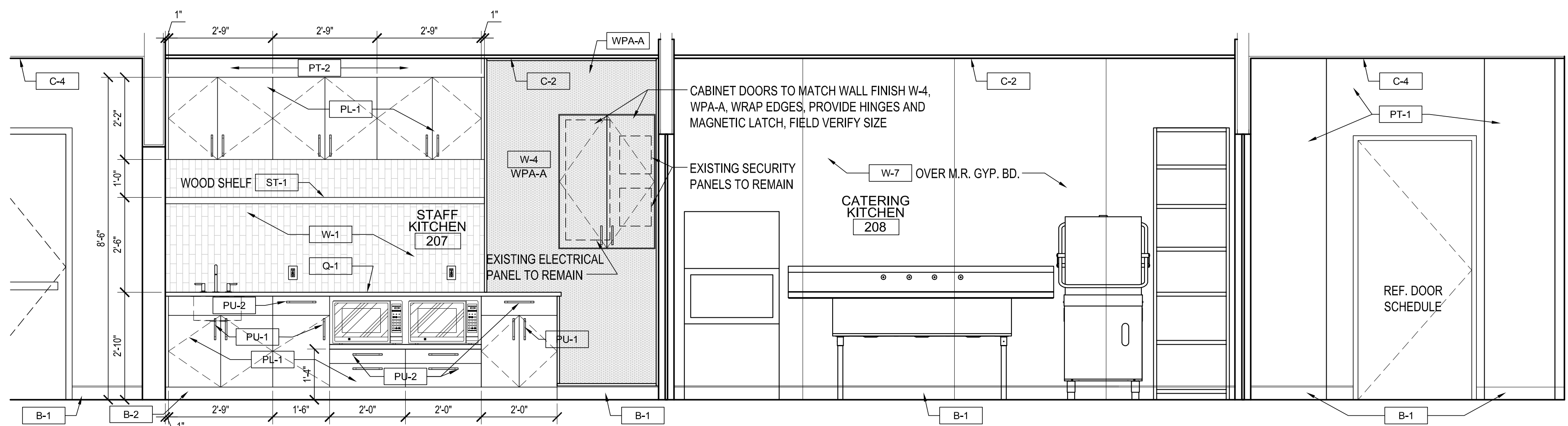
PLAN4
ARCHITECTURE DESIGN
www.plan4arch.com
303 north main st., mcpherson kansas 67241-4353



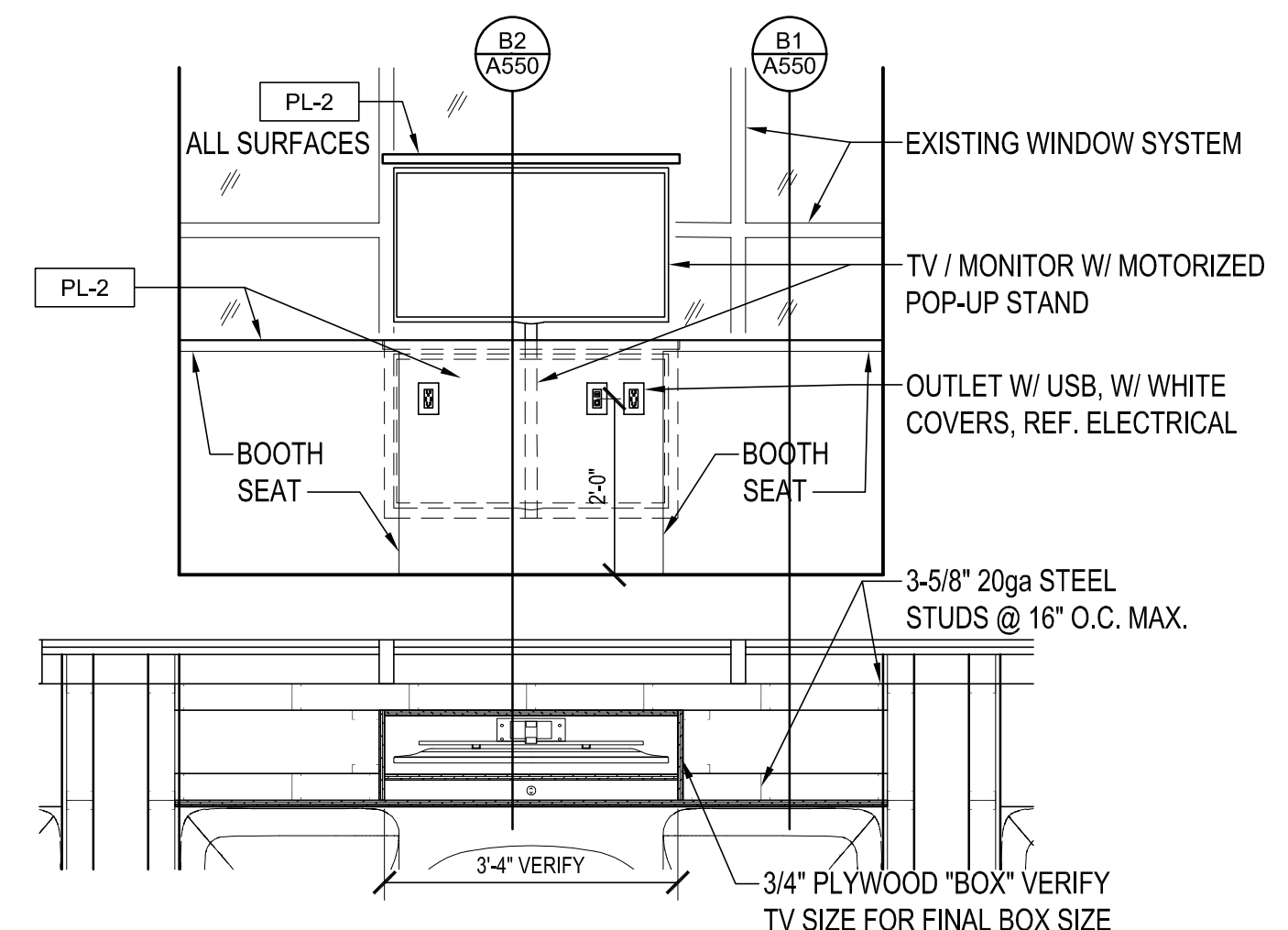
C1 WEST LOUNGE ELEVATION
SCALE: 1/2"=1'-0"



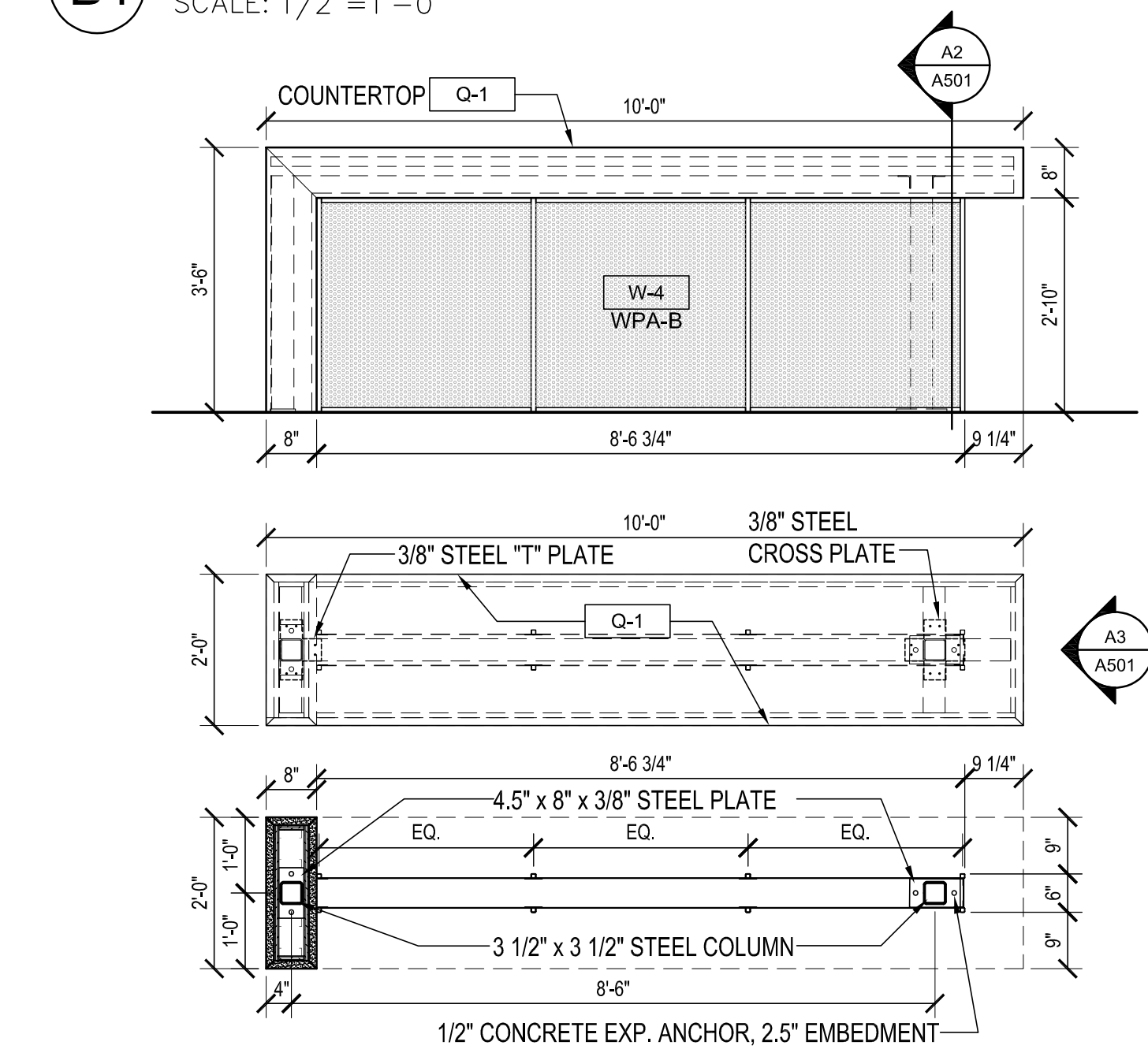
C5 EAST CONFERENCE ROOM
SCALE: 1/2"=1'-0"



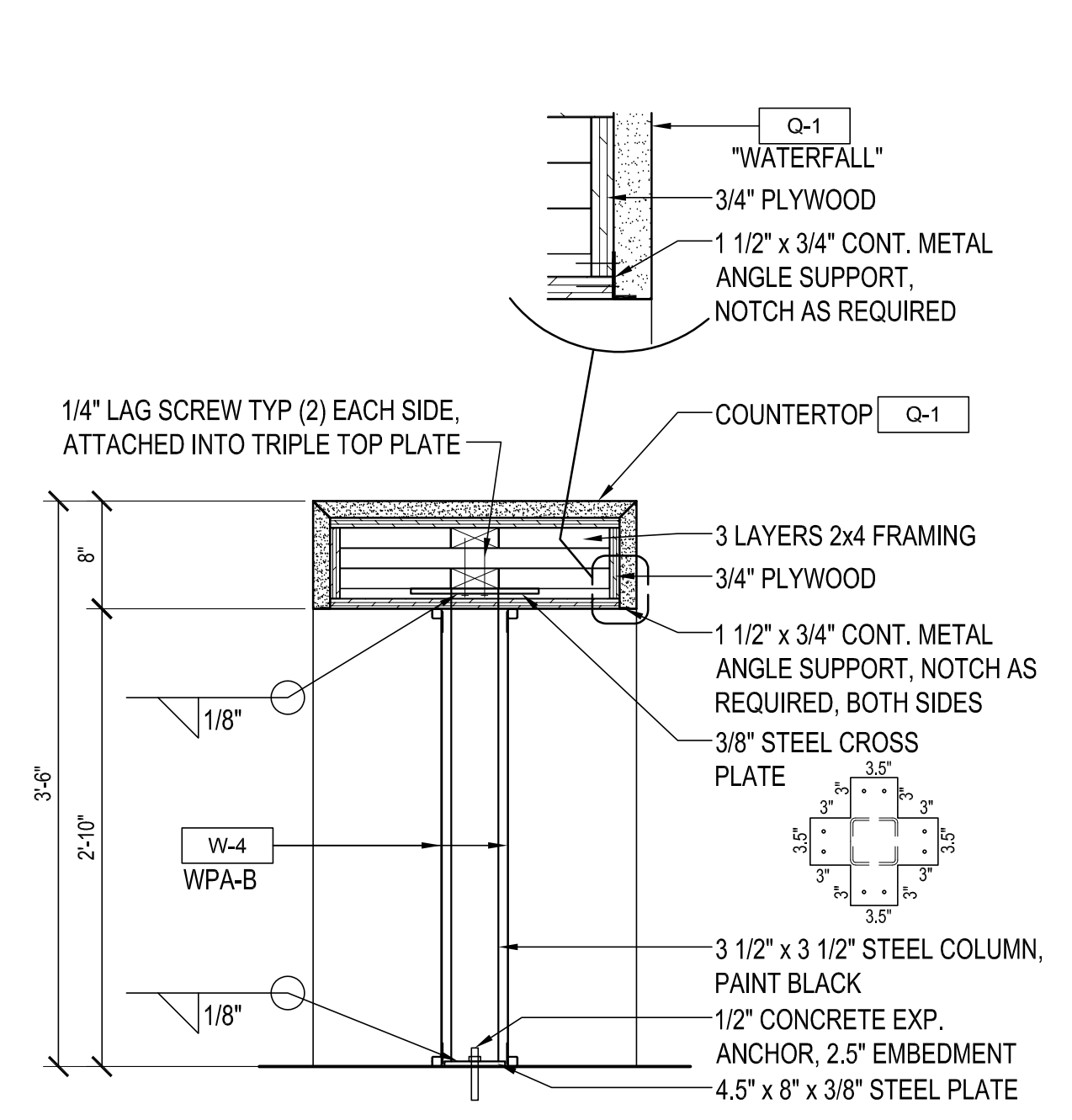
B1 WEST KITCHEN ELEVATION
SCALE: 1/2"=1'-0"



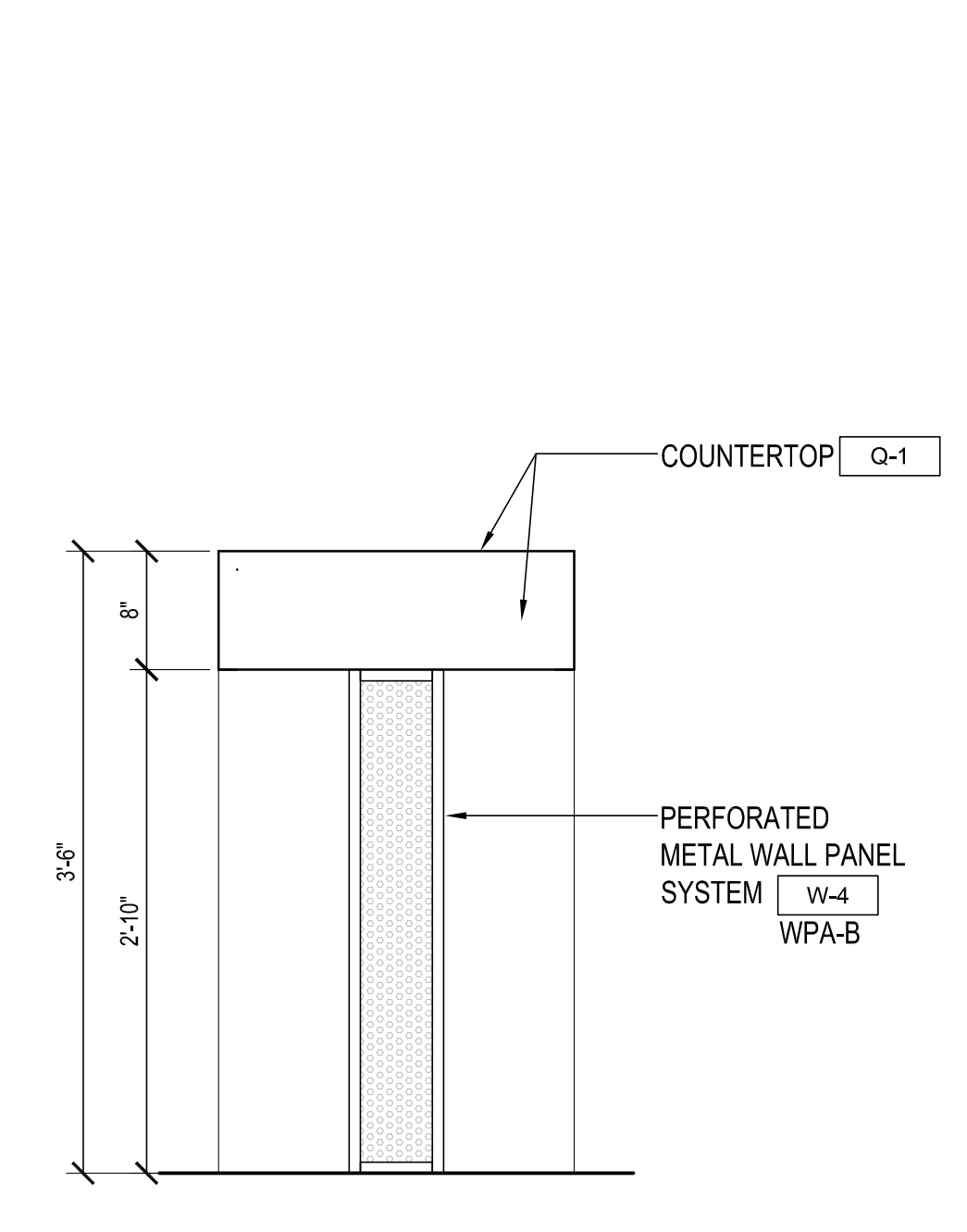
B5 SOUTH COLLABORATION AREA
SCALE: 1/2"=1'-0"



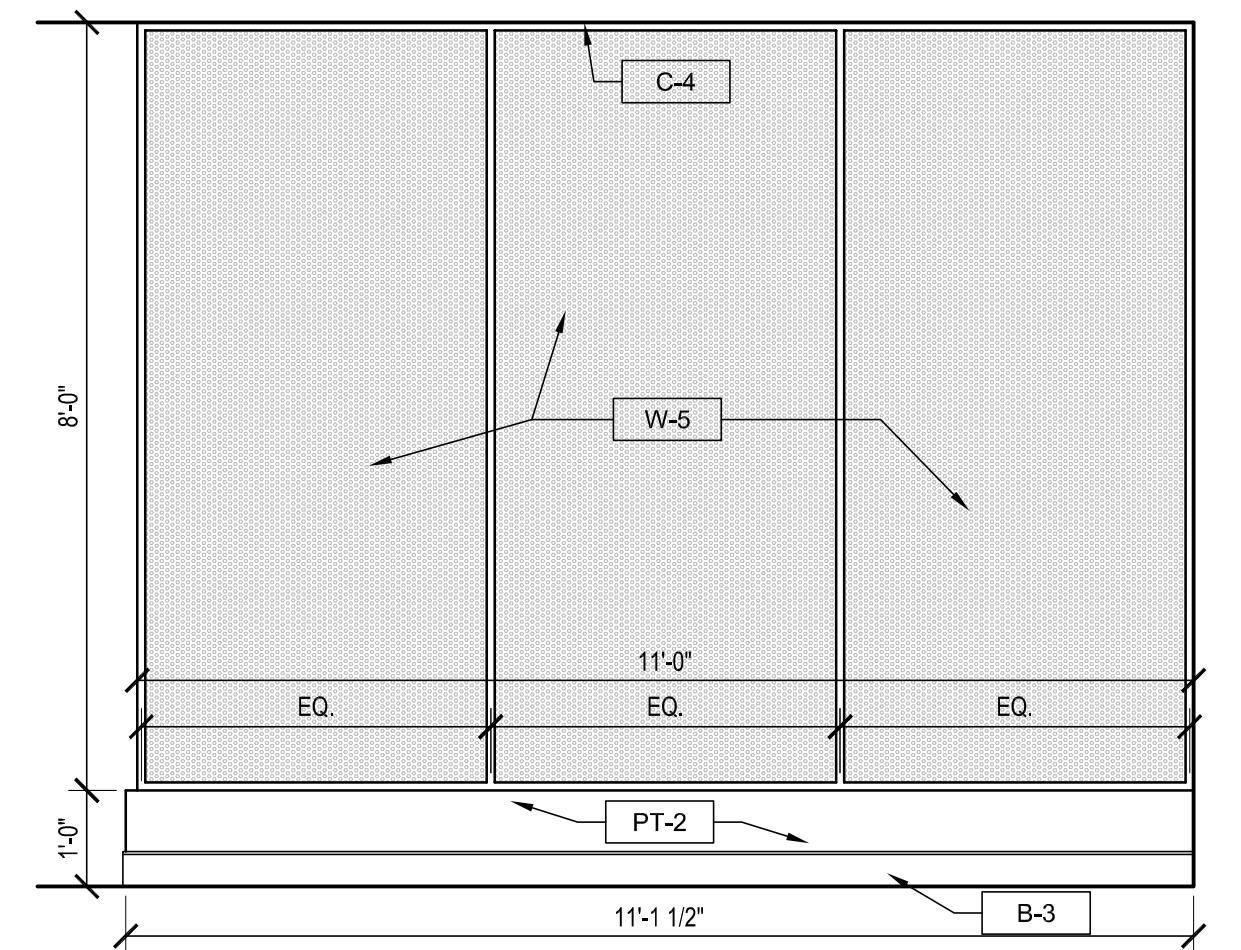
A1 COUNTERTOP PLAN & ELEVATION
SCALE: 1/2"=1'-0"



A2 COUNTERTOP SECTION
SCALE: 1"=1'-0"



A3 COUNTERTOP END ELEVATION
SCALE: 1"=1'-0"



A5 PARTITION ELEVATION
SCALE: 1"=1'-0"

11 x 17 = 1/2 scale

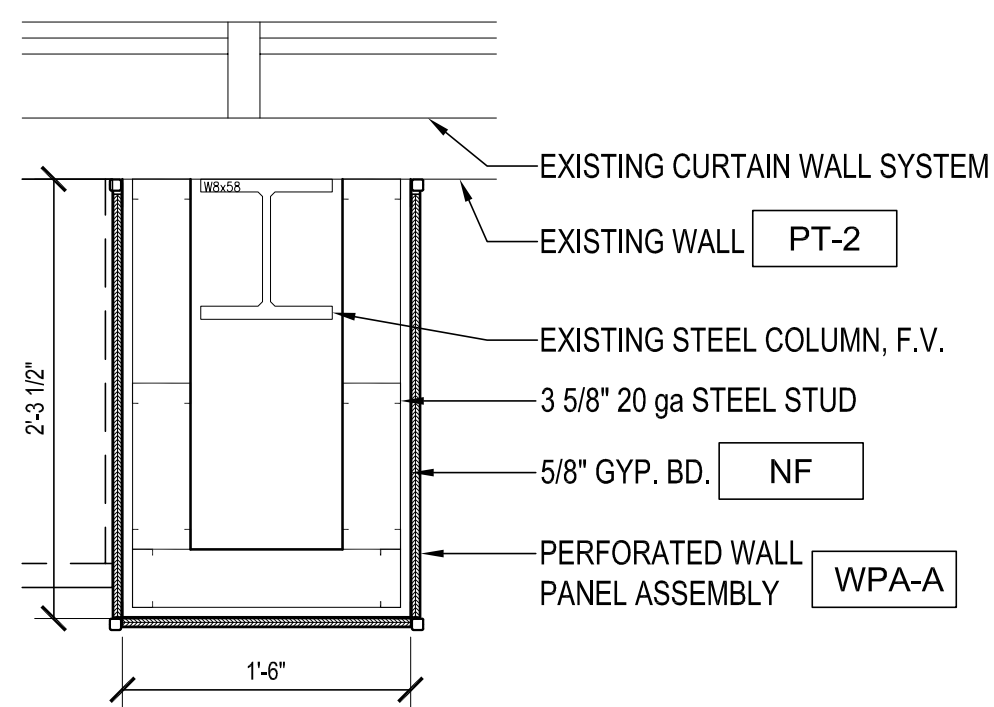
INTERIOR ELEVATIONS
 Farmers Alliance Mutual Insurance
 1122 North Main
 McPherson, Kansas 67460
 PLAN4 ARCHITECTURE DESIGN
 www.plan4arch.com
 303 north main st., mcpherson kansas 67241-4353

Contract Date	
Rev No. 1	
Rev No. 2	
Rev No. 3	
Rev No. 4	
Rev No. 5	
Rev No. 6	
Project Number:	23.20
DWG File	
Designed By:	plan4
Drawn By:	GSC
Approved By:	plan4
Date:	03.25.24

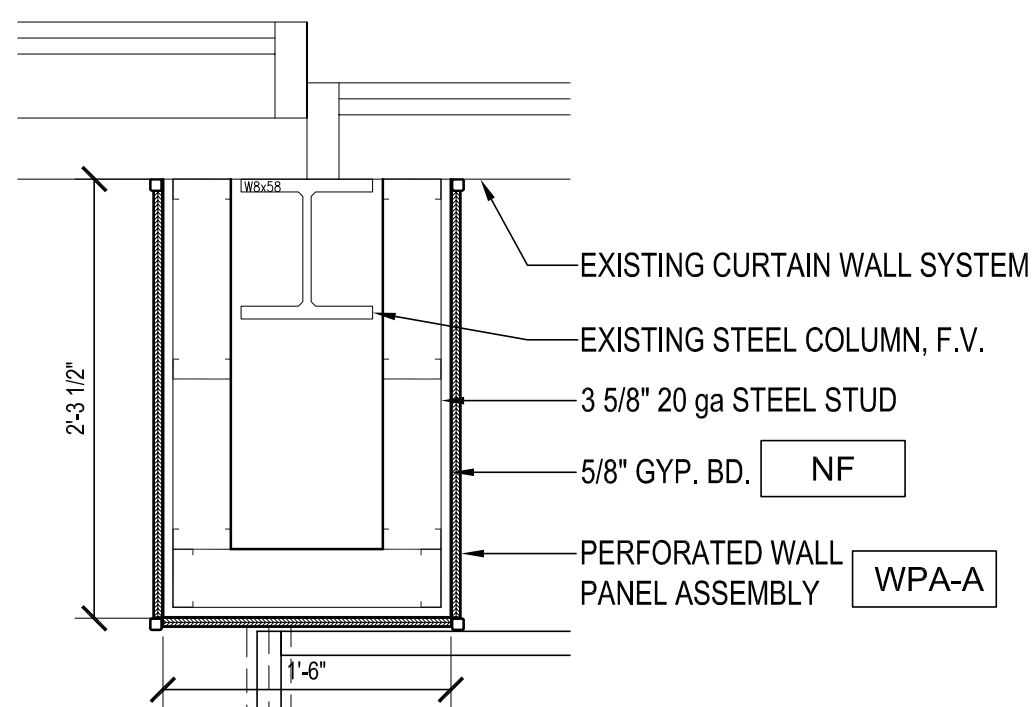


SHEET NUMBER

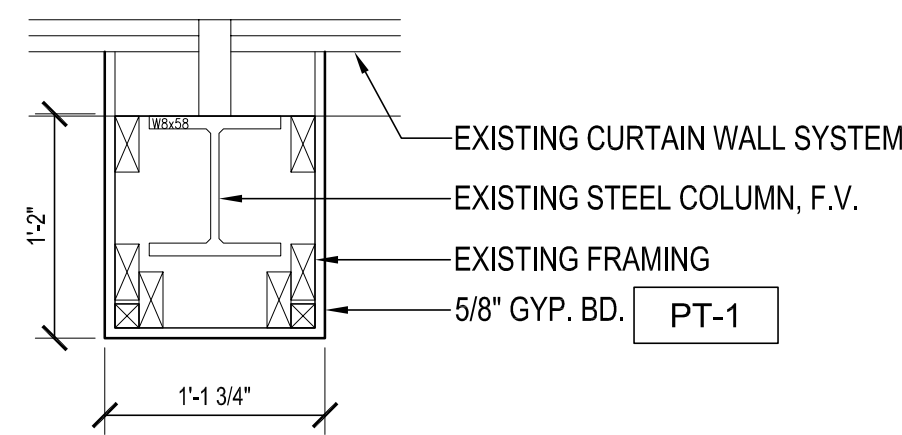
A501



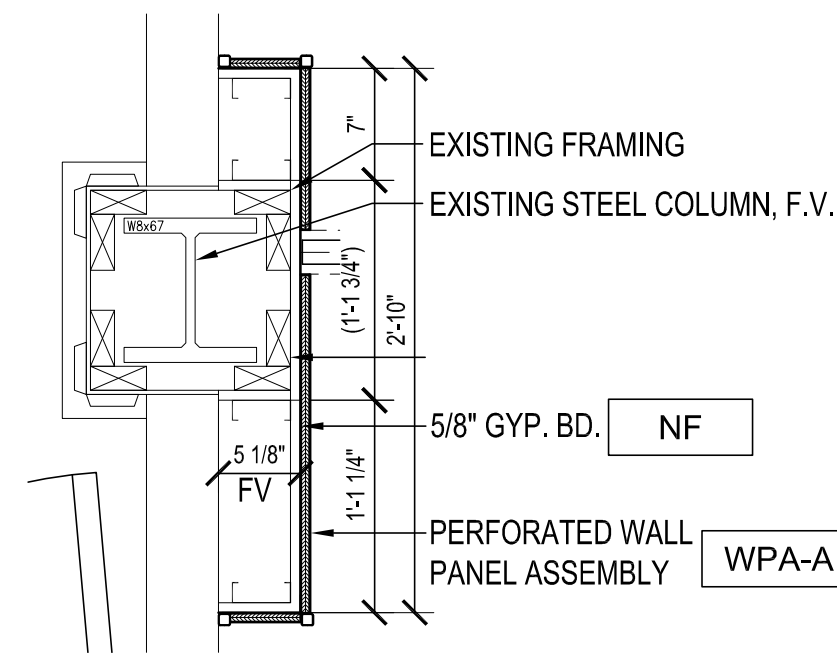
D1 COLUMN DETAIL 1
SCALE: 1"=1'-0"



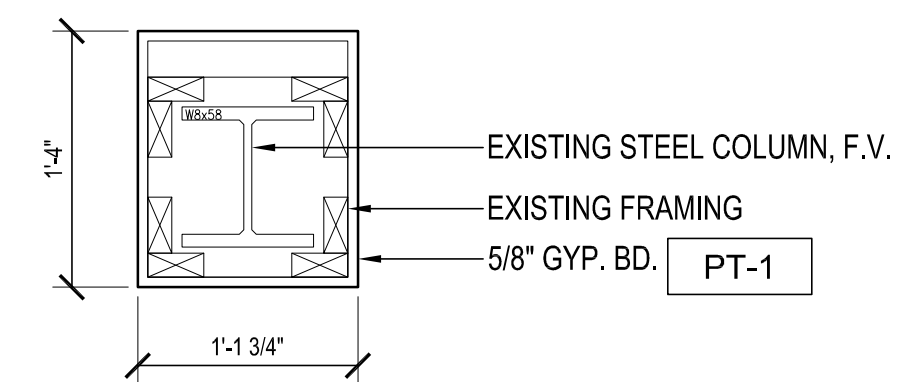
D2 COLUMN DETAIL 2
SCALE: 1"=1'-0"



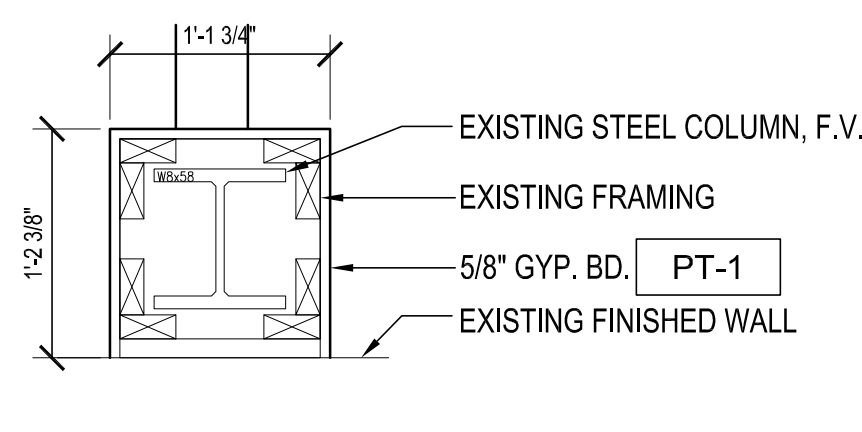
D3 COLUMN DETAIL 3
SCALE: 1"=1'-0"



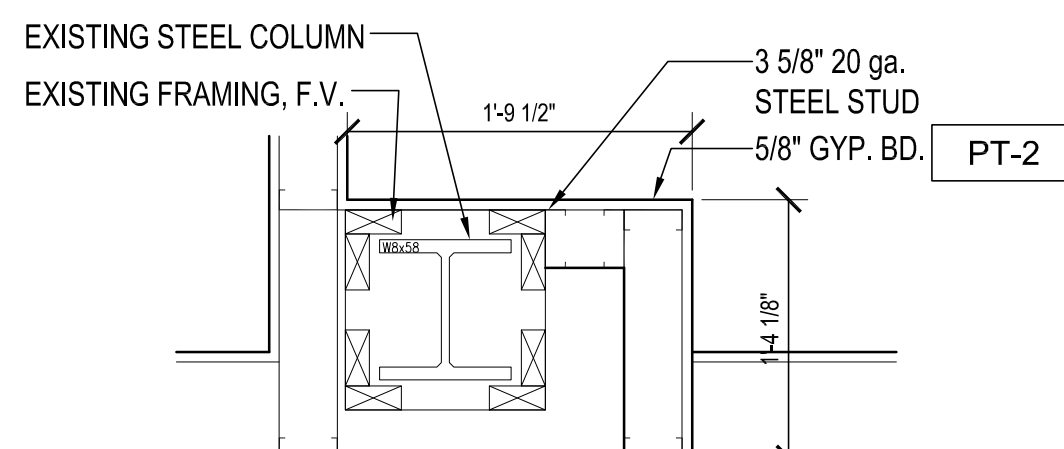
D4 COLUMN DETAIL 4
SCALE: 1"=1'-0"



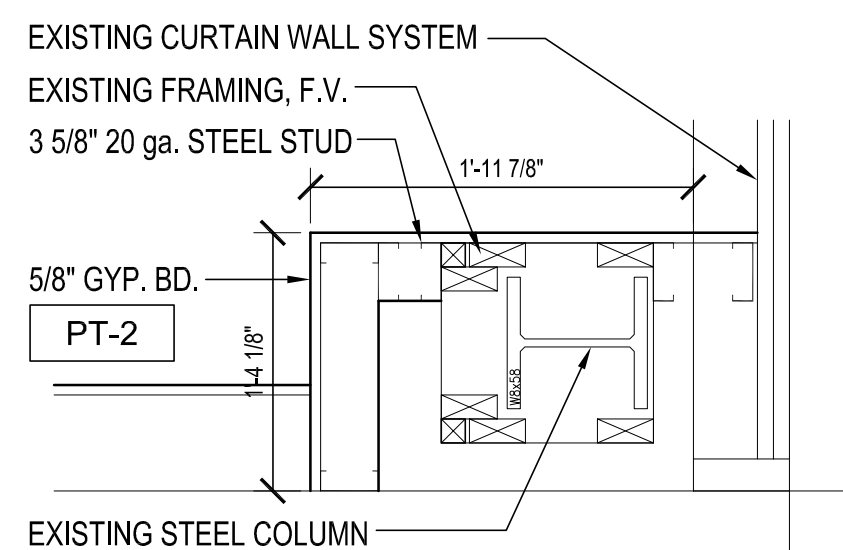
D5 COLUMN DETAIL 5
SCALE: 1"=1'-0"



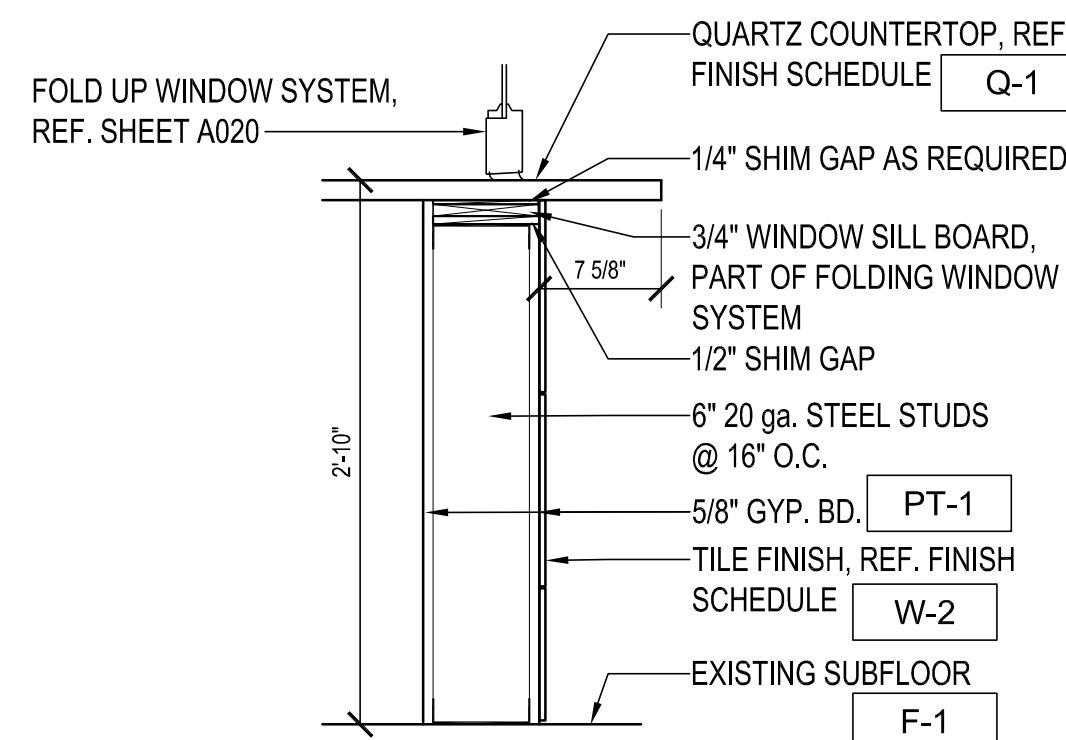
C1 COLUMN DETAIL 6
SCALE: 1"=1'-0"



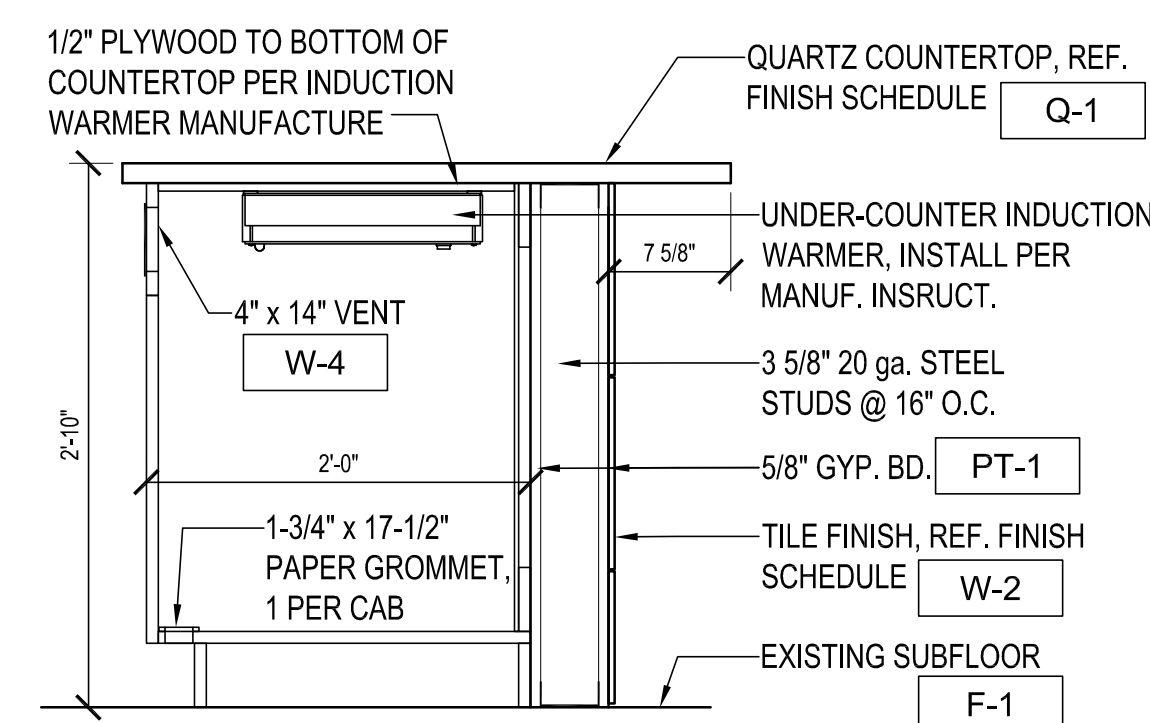
C2 COLUMN DETAIL 7
SCALE: 1"=1'-0"



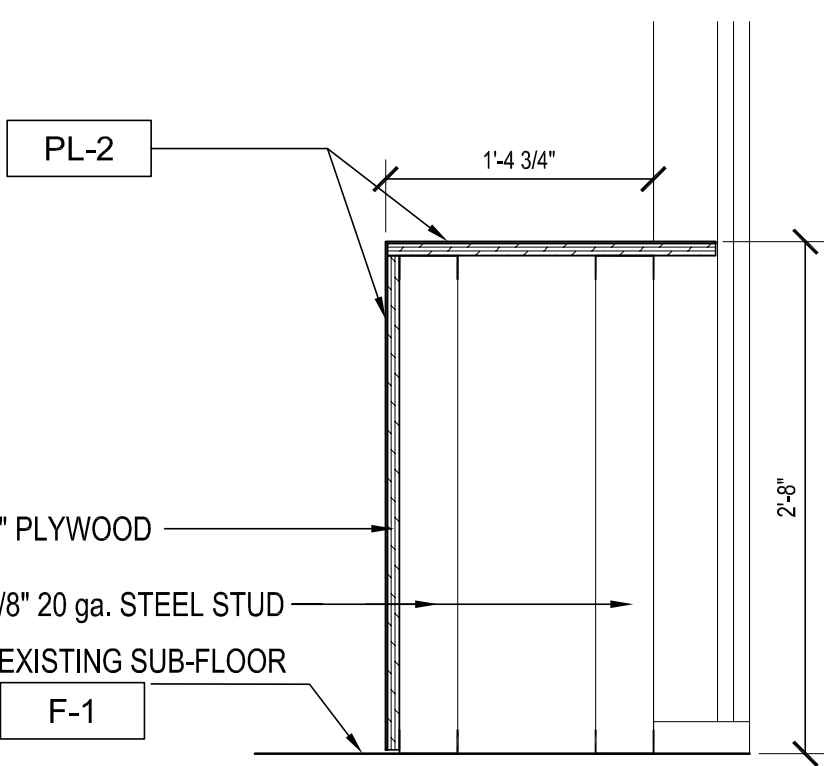
C3 COLUMN DETAIL 8
SCALE: 1"=1'-0"



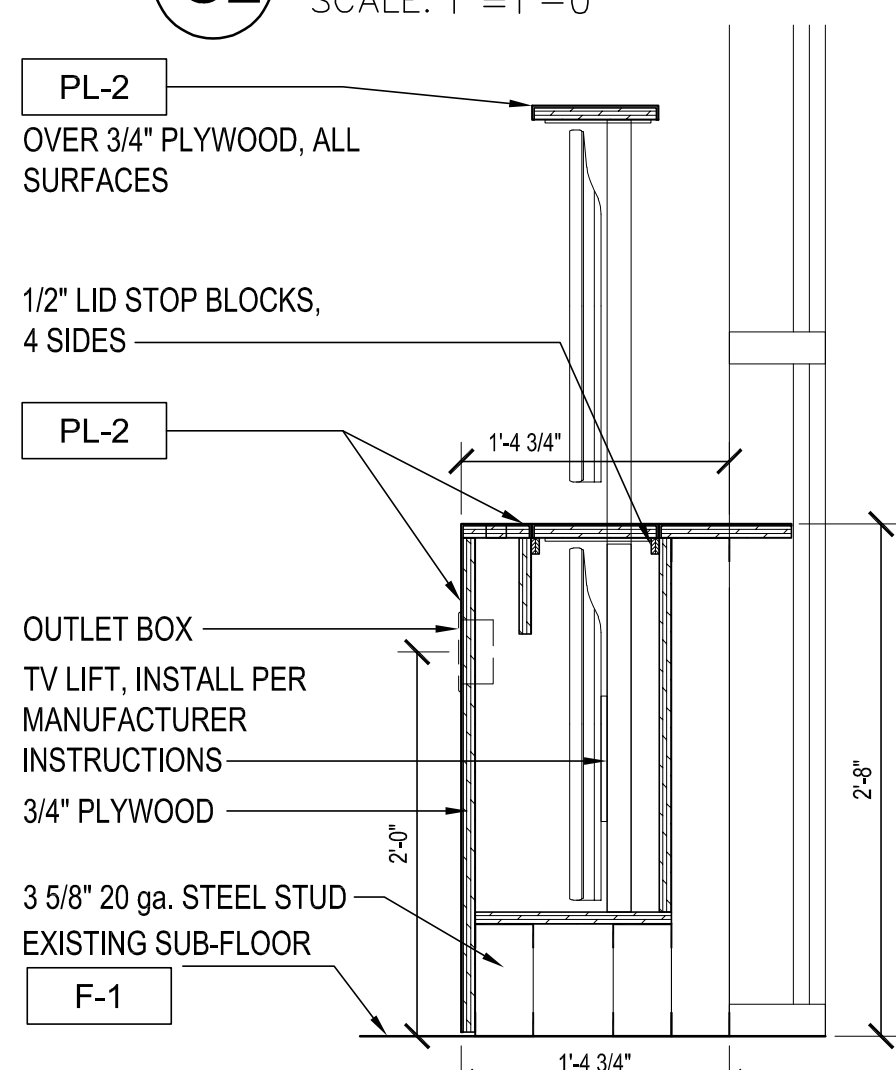
C4 SILL DETAIL
SCALE: 1"=1'-0"



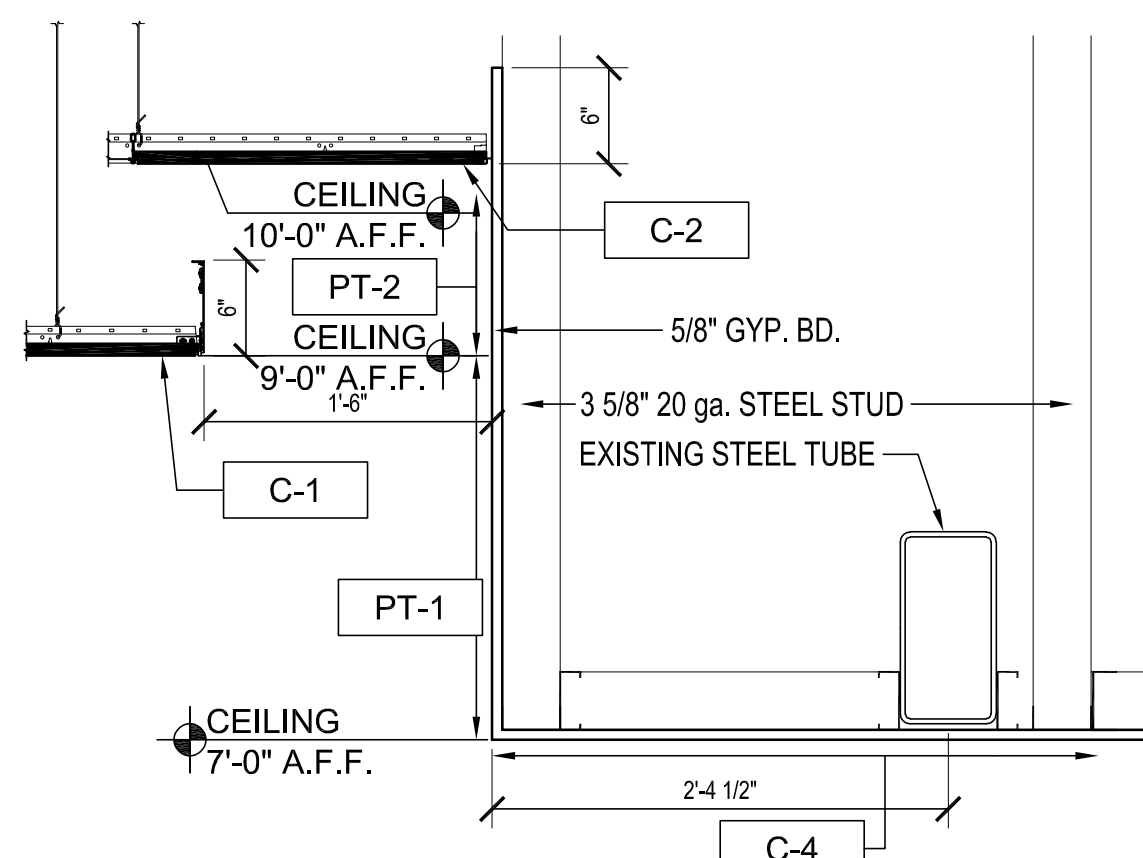
C5 BASE CAB. DETAIL
SCALE: 1"=1'-0"



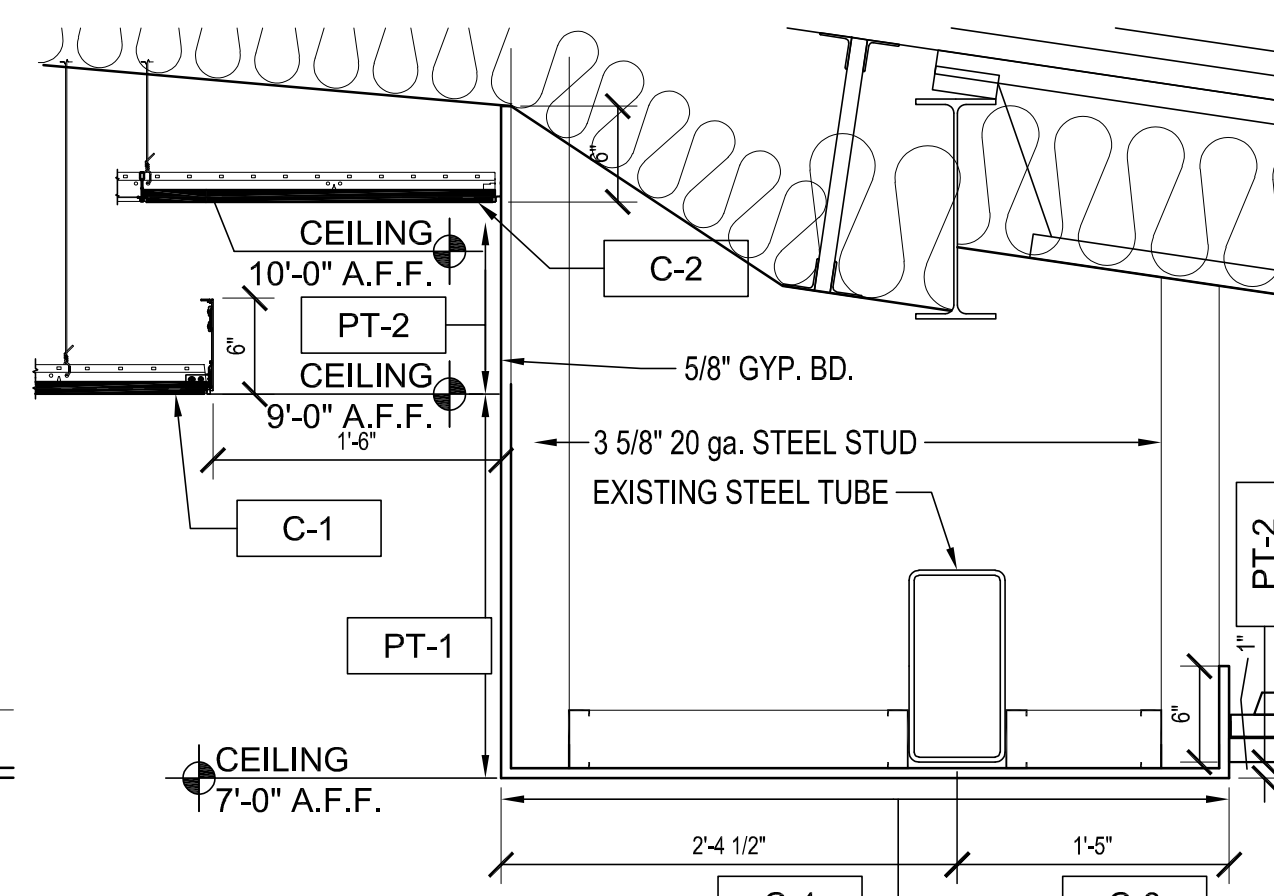
B1 BASE CASE DETAIL
SCALE: 1"=1'-0"



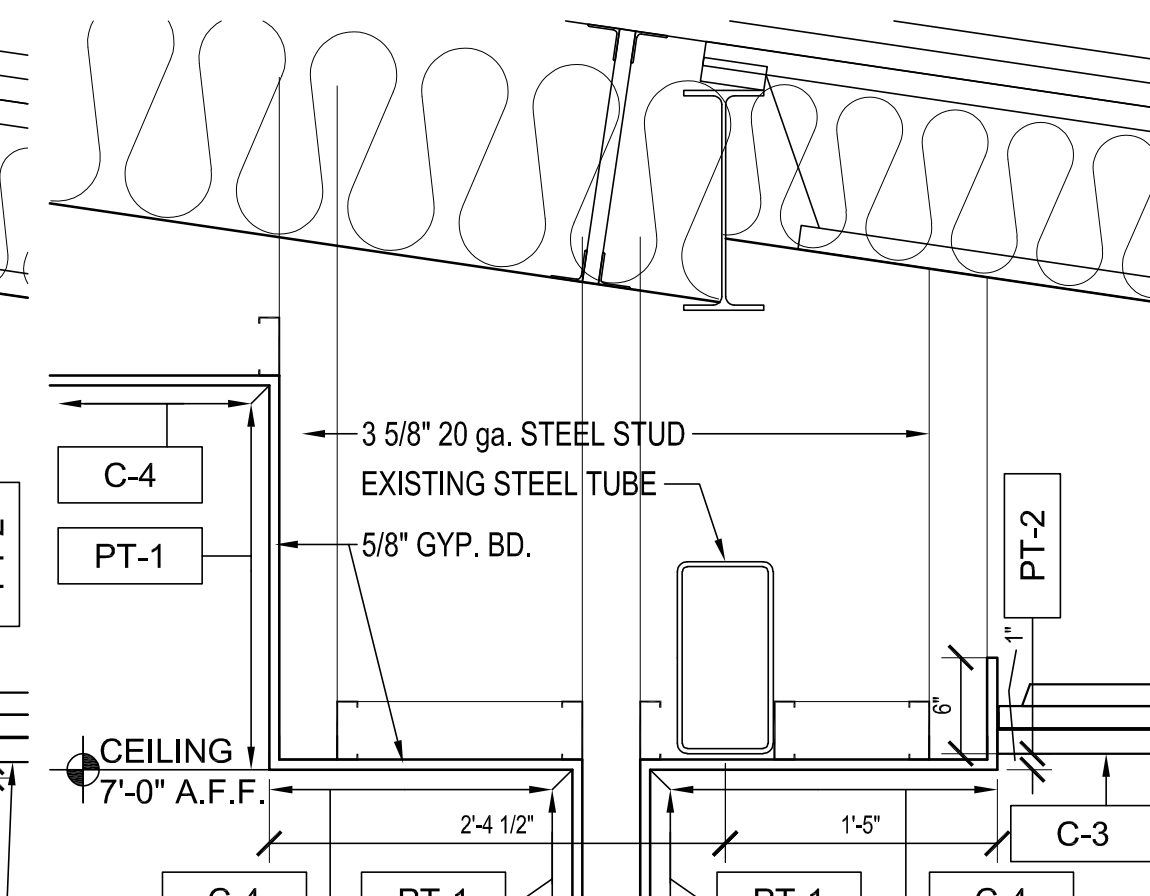
B2 BASE CASE DETAIL
SCALE: 1"=1'-0"



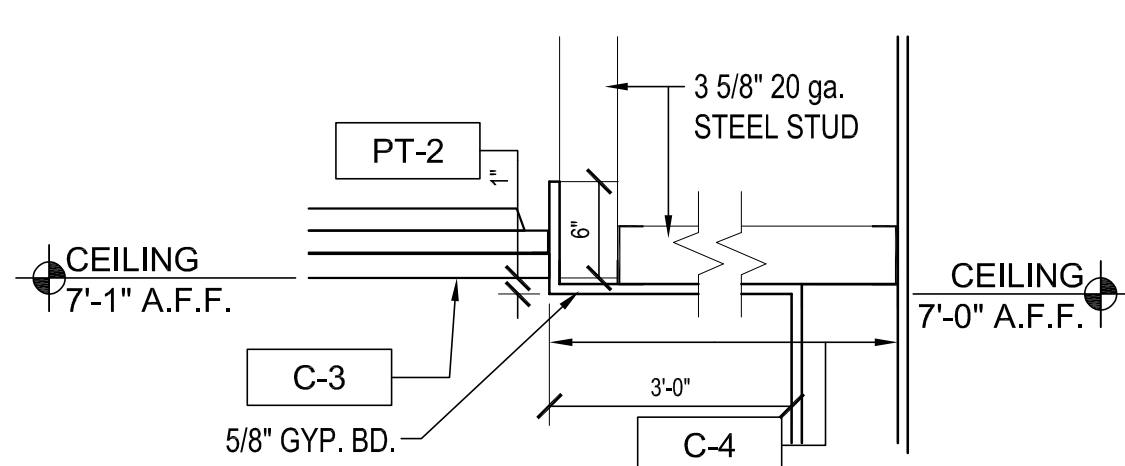
B3 CEILING DETAIL
SCALE: 1"=1'-0"



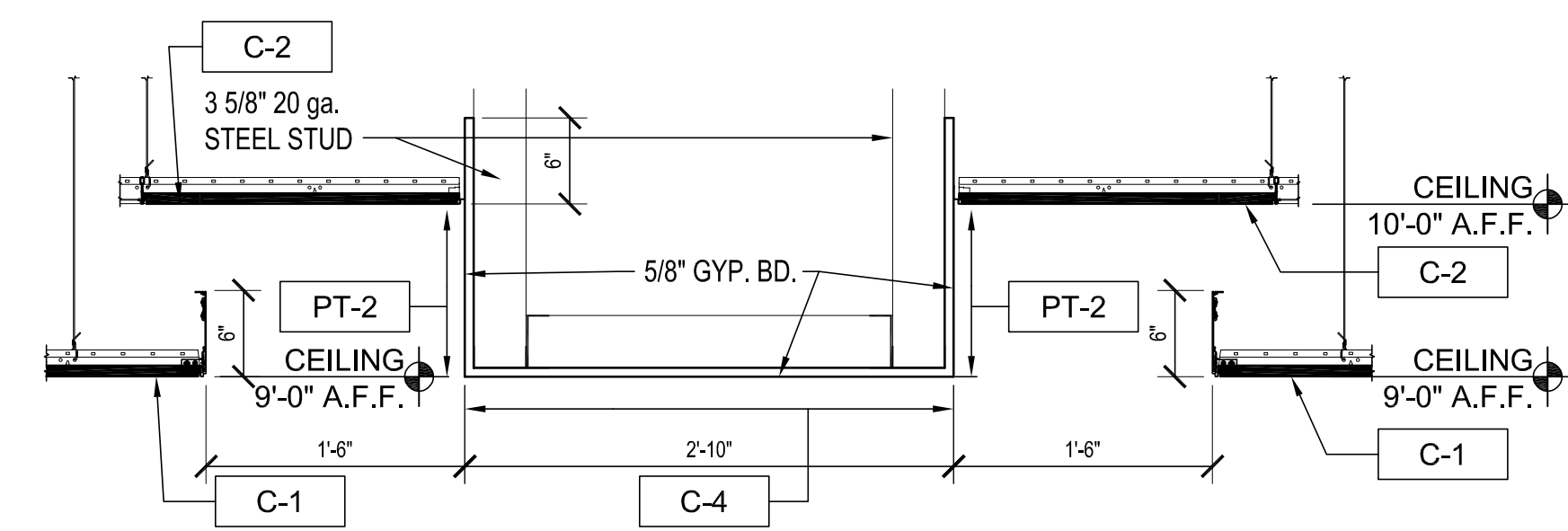
B4 CEILING DETAIL
SCALE: 1"=1'-0"



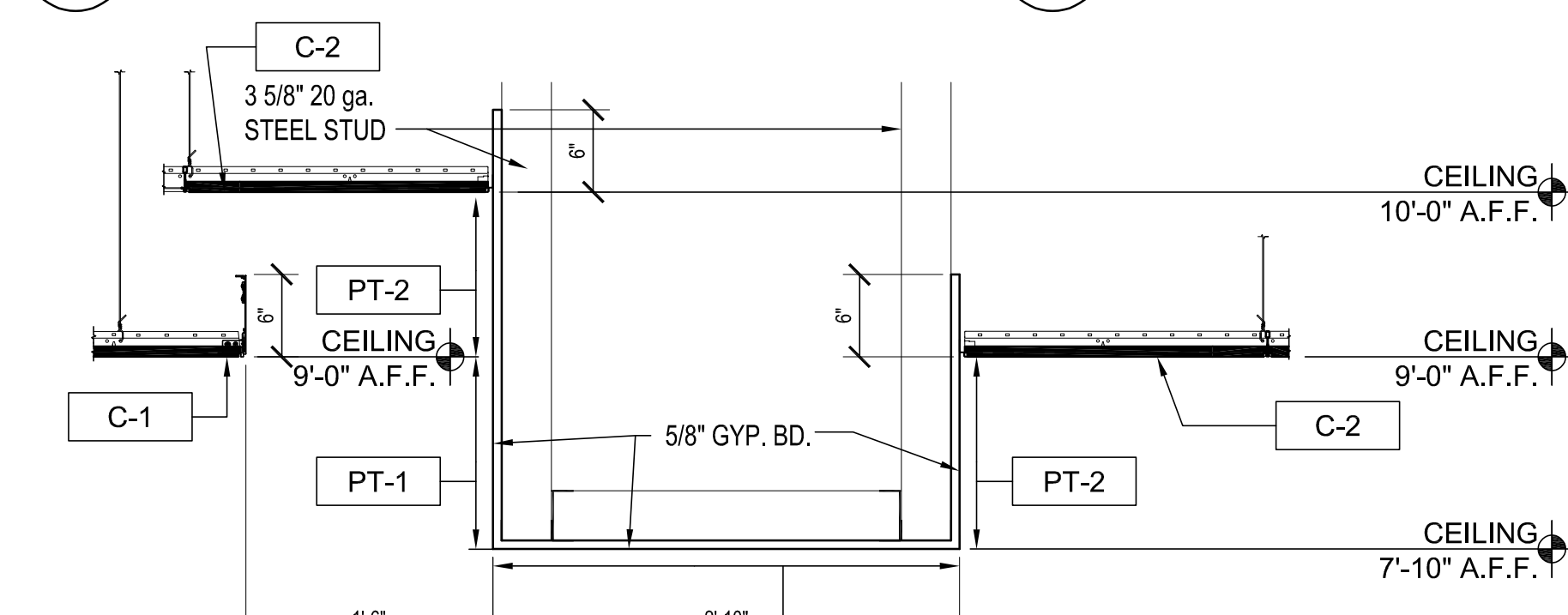
B5 CEILING DETAIL
SCALE: 1"=1'-0"



A1 CEILING DETAIL
SCALE: 1"=1'-0"



A2 CEILING DETAIL
SCALE: 1"=1'-0"



A4 CEILING DETAIL
SCALE: 1"=1'-0"

Architect hereby expressly reserves its common law copyright and other property rights in these plans. These plans and drawings are not to be reproduced, changed, copied or assigned to any third party, in any form or manner whatsoever without first obtaining the express written permission of Plan 4 Architecture Design.

INTERIOR SECTIONS

Farmers Alliance Mutual Insurance
1122 North Main
McPherson, Kansas 67460

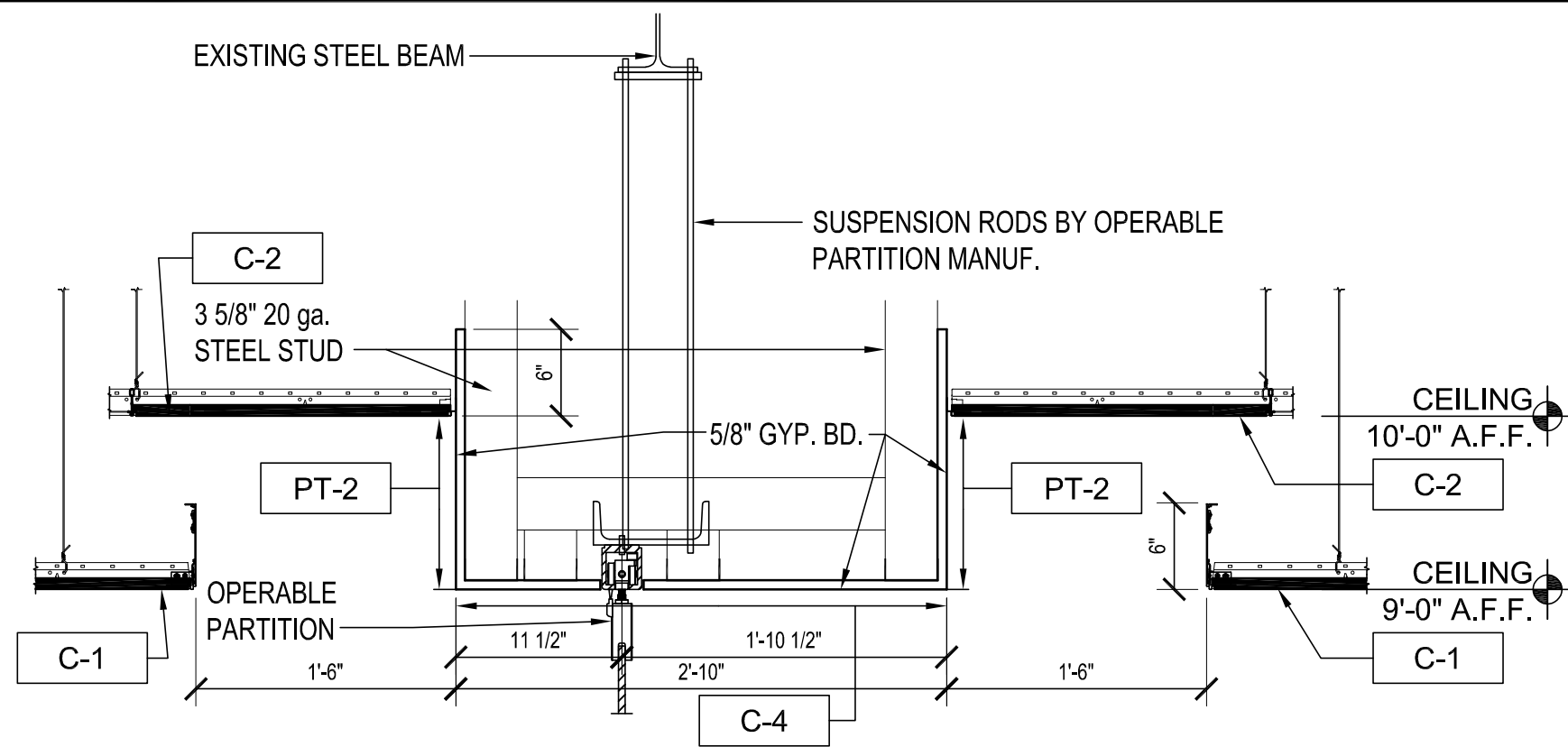
PLAN 4
ARCHITECTURE DESIGN
www.plan4arch.com
303 north main st., mcpherson kansas 67241-4353

Contract Date	
Rev No. 1	
Rev No. 2	
Rev No. 3	
Rev No. 4	
Rev No. 5	
Rev No. 6	
Project Number:	23.20
DWG File	
Designed By:	plan4
Drawn By:	GSC
Approved By:	plan4
Date:	03.25.24

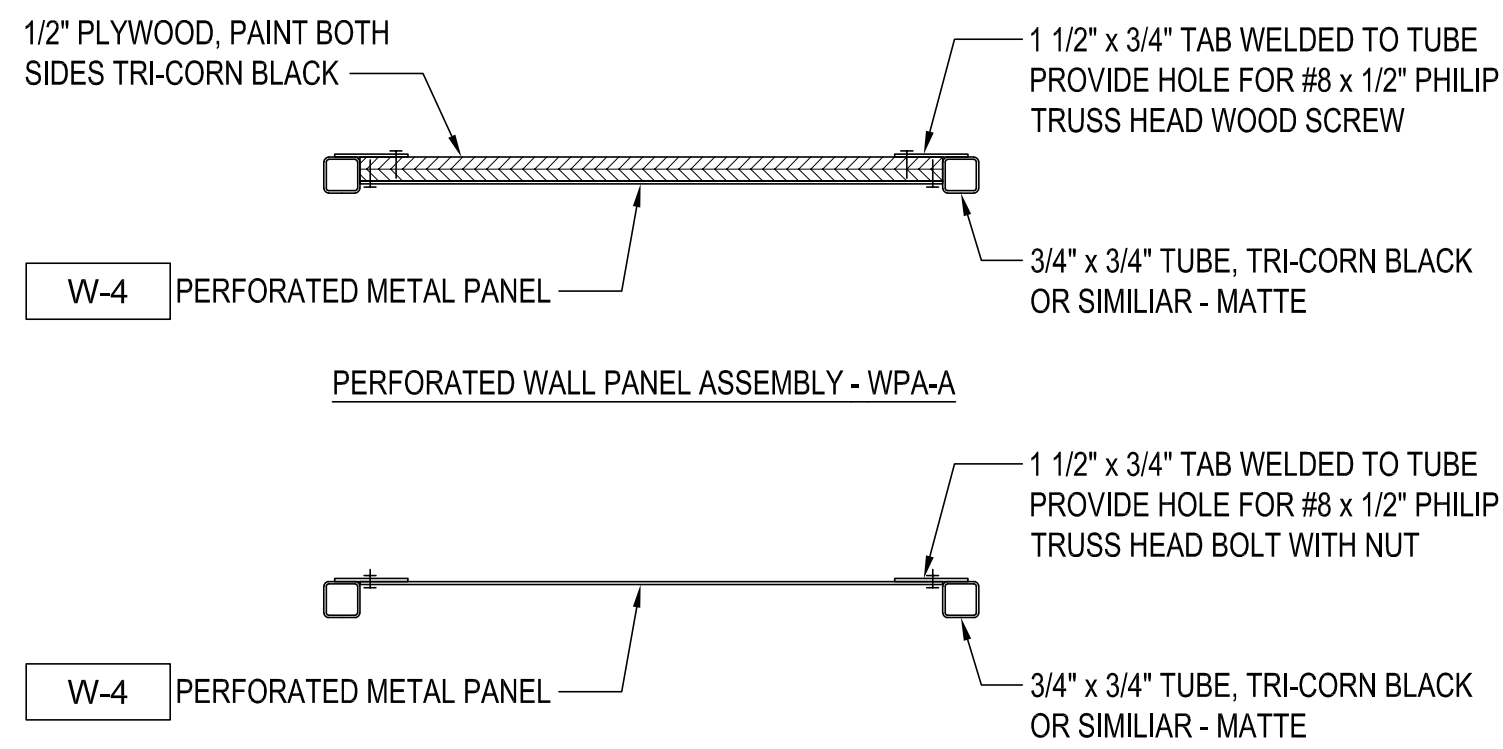


SHEET NUMBER
A550

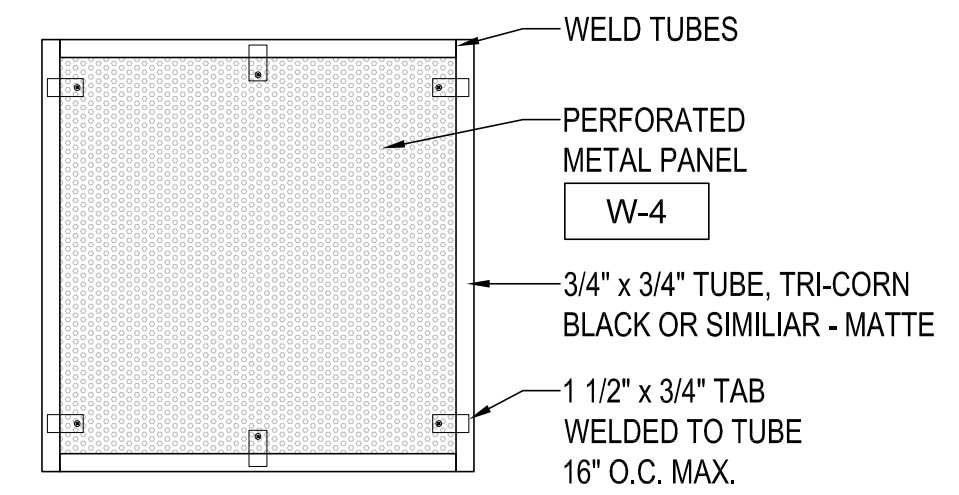
11 x 17 = 1/2 scale



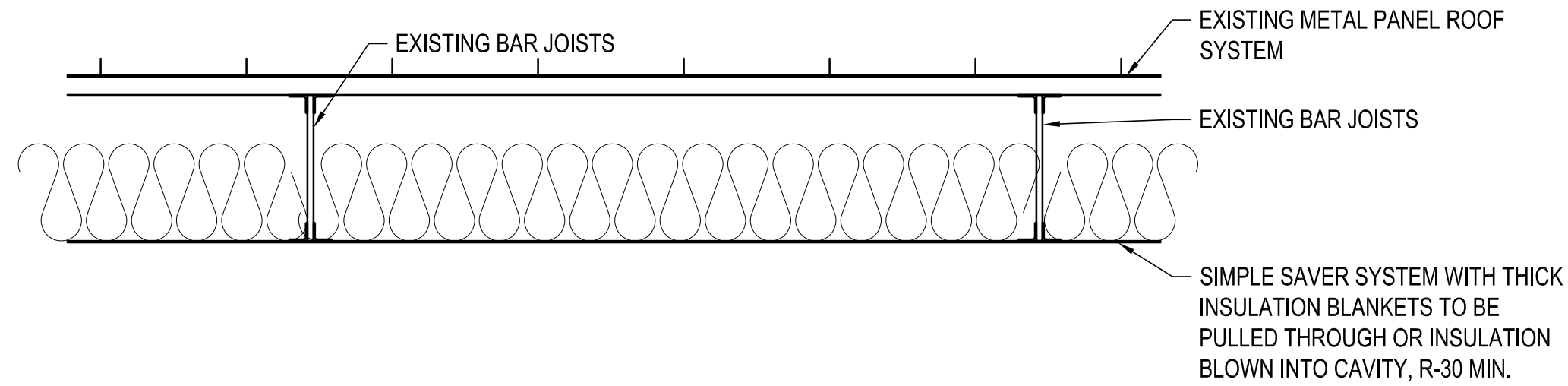
D1 CEILING DETAIL
SCALE: 1"=1'-0"



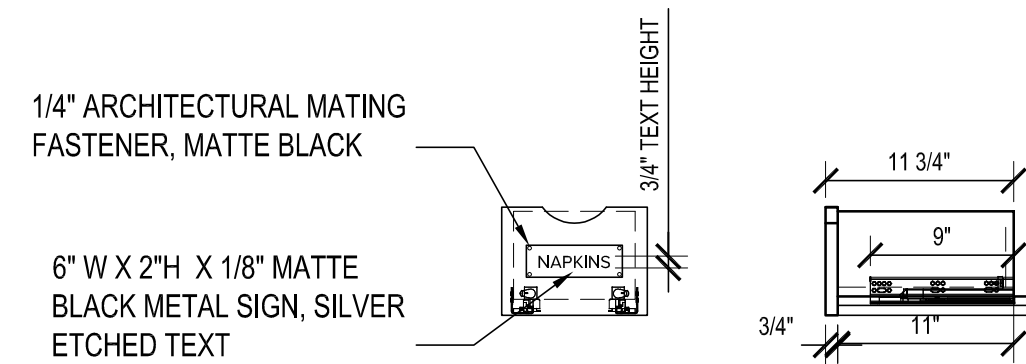
D3 CUSTOM WALL PANEL DETAIL
SCALE: 3"=1'-0"



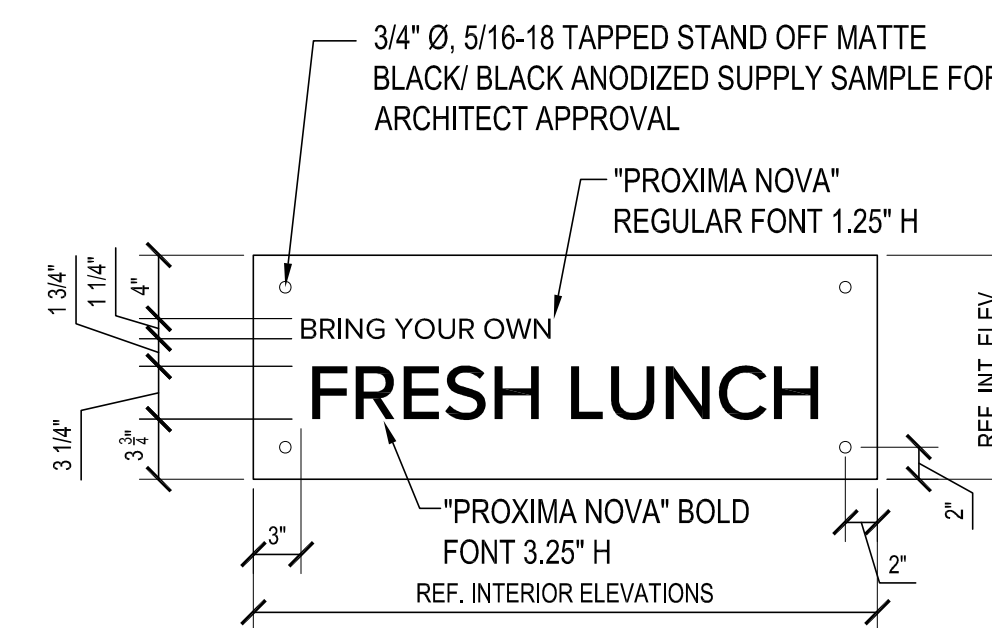
D5 CUSTOM PANEL DETAIL
SCALE: 1 1/2"=1'-0"



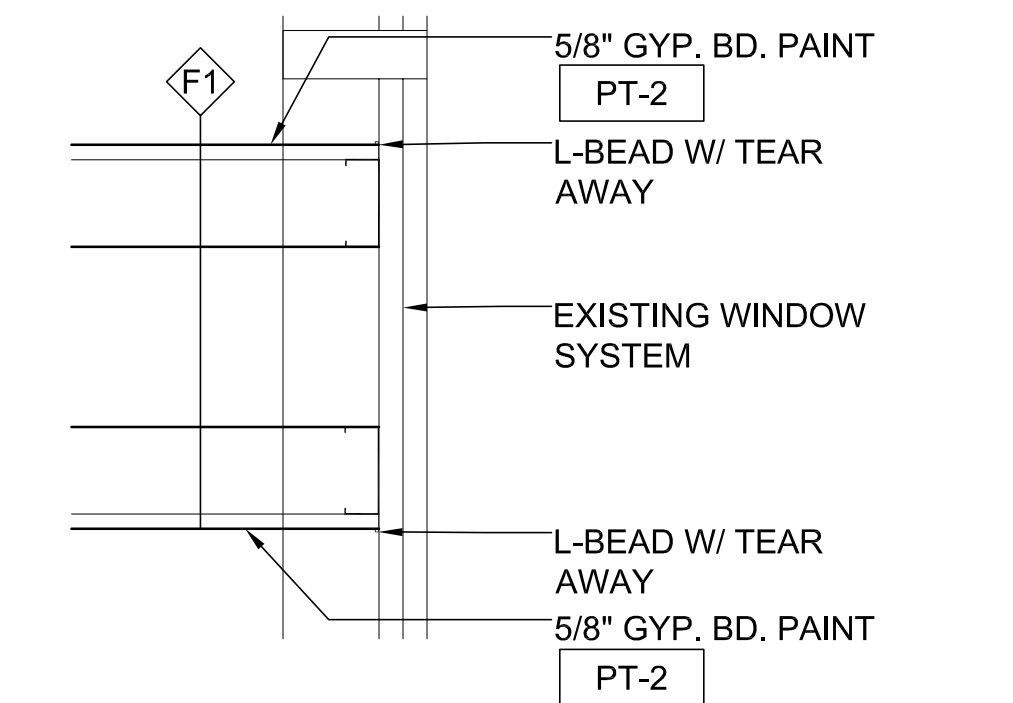
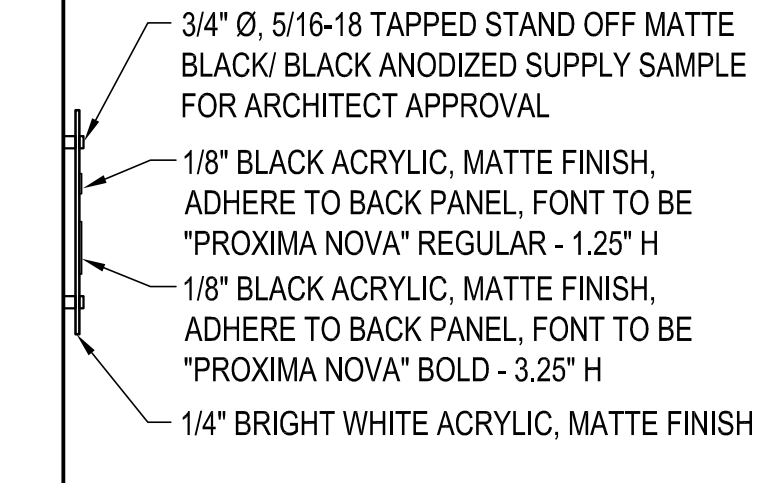
C1 ABOVE CEILING INSULATION DETAIL
SCALE: 1"=1'-0"



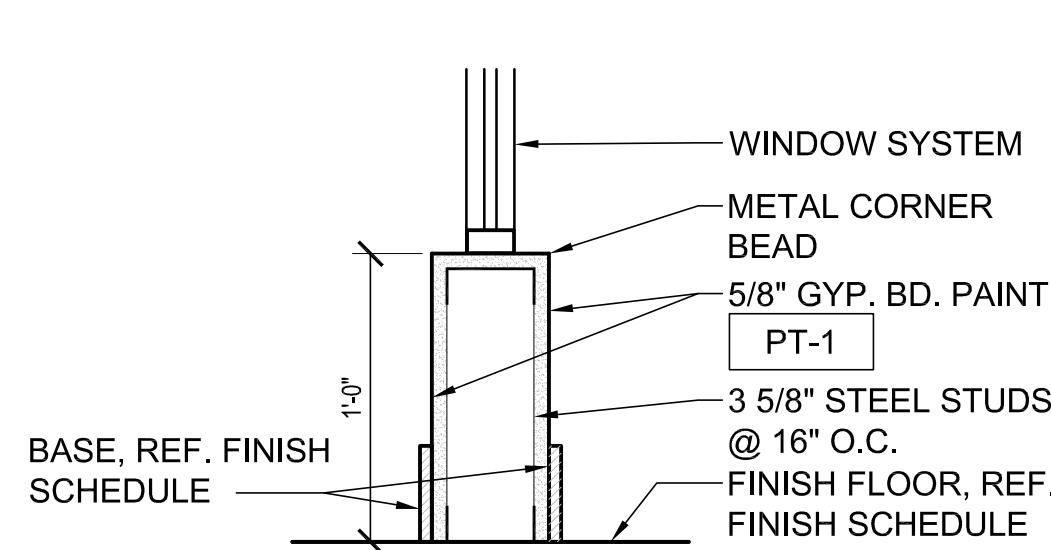
C3 TYP. ISLAND DRWR DTL.
SCALE: 1"=1'-0"



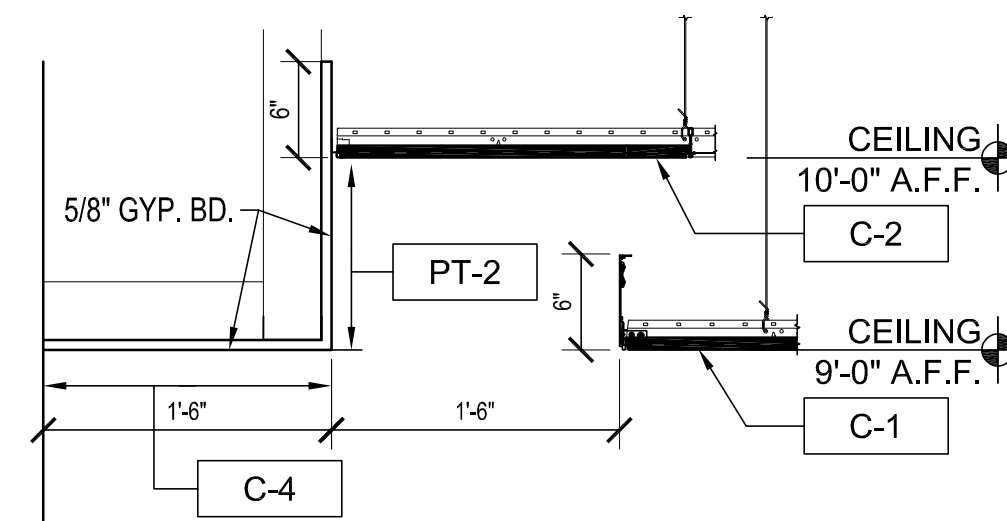
C4 SIGN DETAIL
SCALE: 1"=1'-0"



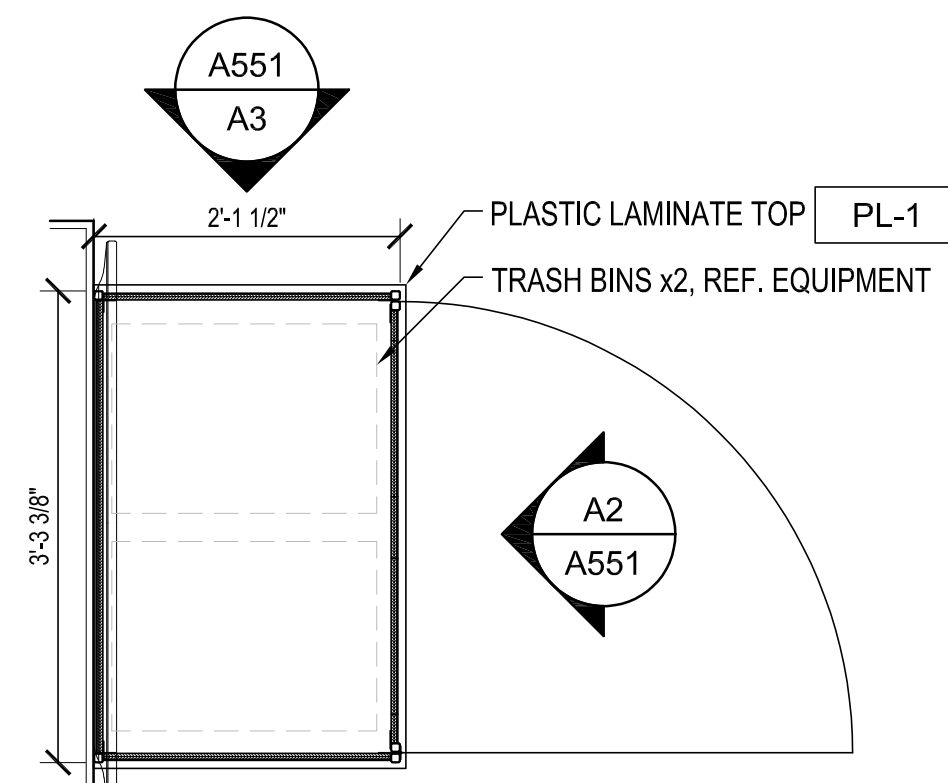
B1 WALL TO WINDOW DETAIL
SCALE: 1 1/2"=1'-0"



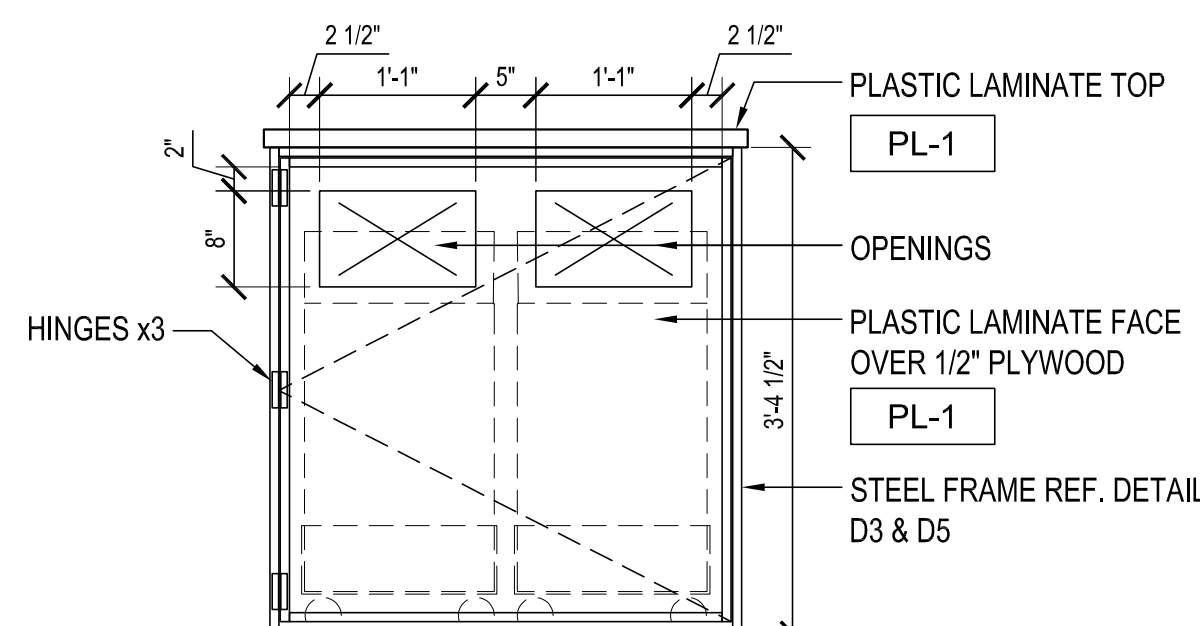
B2 BASE OF WALL DETAIL
SCALE: 1 1/2"=1'-0"



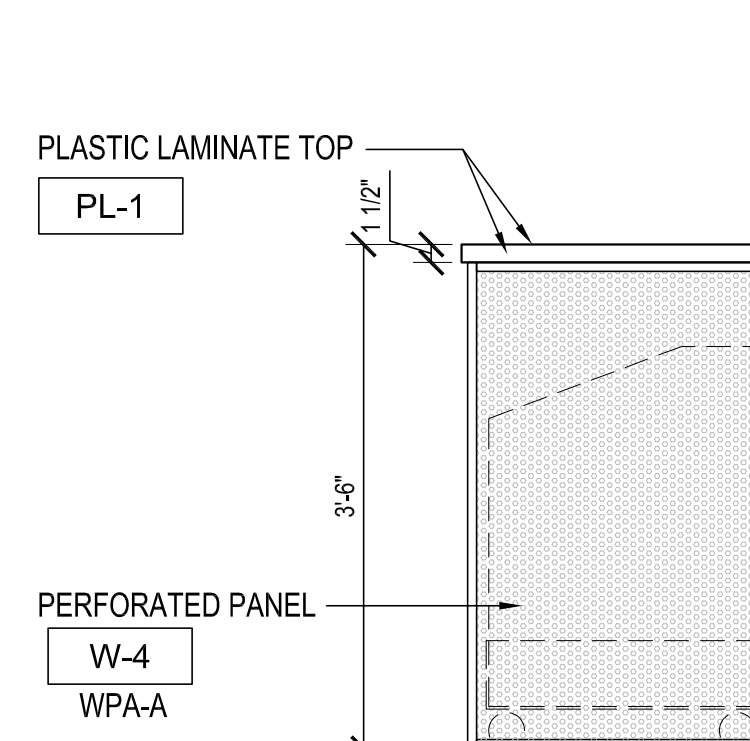
B3 CEILING DETAIL
SCALE: 1"=1'-0"



A1 TRASH CONTAINER PLAN
SCALE: 3/4"=1'-0"



A2 TRASH CONTAINER ELEV.
SCALE: 3/4"=1'-0"



A3 TRASH CONTAINER ELEV.
SCALE: 3/4"=1'-0"

Architect hereby expressly reserves its common law copyright and other property rights in these plans. These plans and drawings are not to be reproduced, changed, copied or assigned to any third party, in any form or manner whatsoever without first obtaining the express written permission of Plan 4 Architecture Design.

INTERIOR SECTIONS

Farmers Alliance Mutual Insurance
1122 North Main
McPherson, Kansas 67460

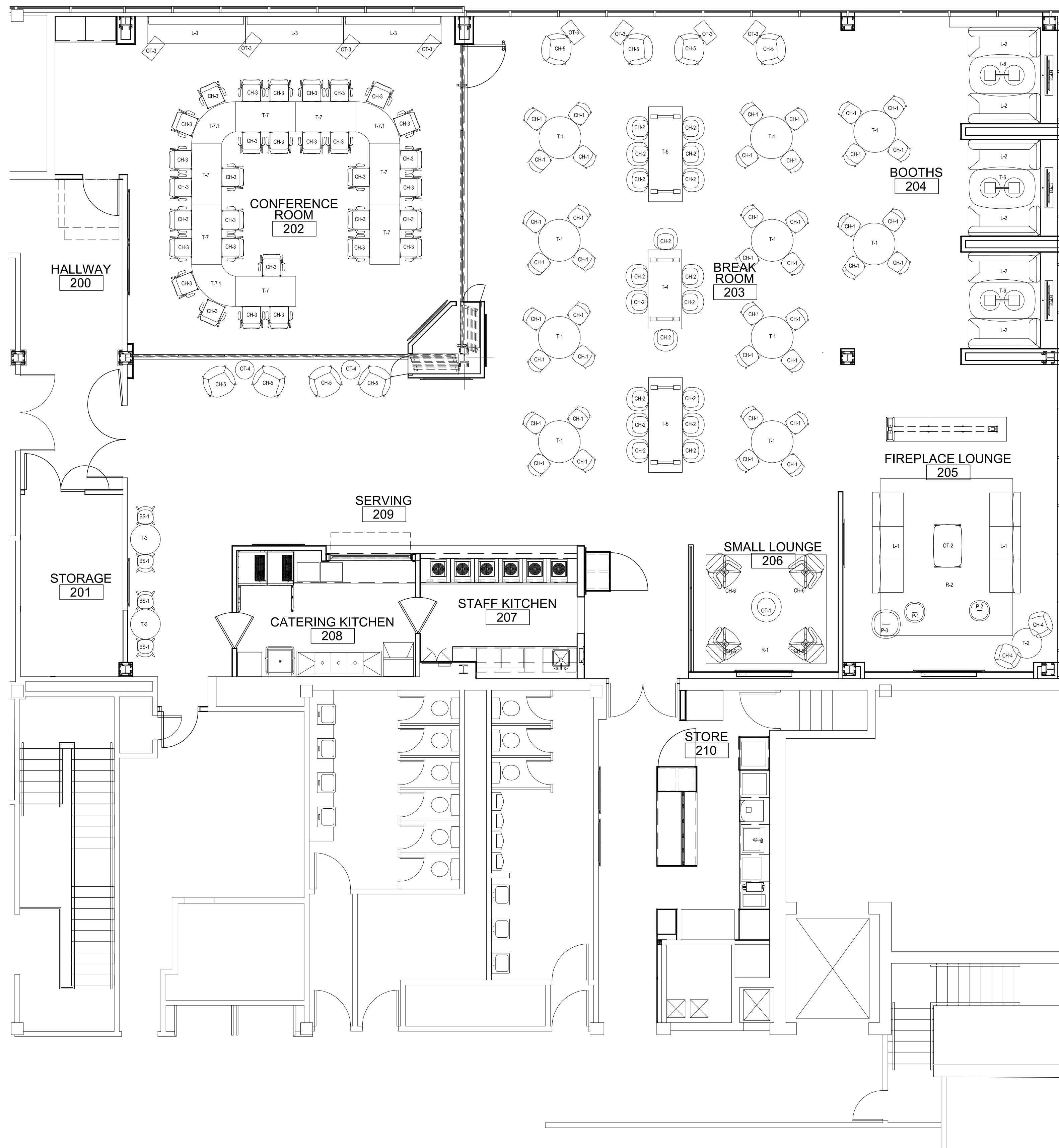
PLAN4
ARCHITECTURE DESIGN
www.plan4arch.com
303 north main st., mcpherson kansas 67024-1433

Contract Date	
Rev No. 1	
Rev No. 2	
Rev No. 3	
Rev No. 4	
Rev No. 5	
Rev No. 6	
Project Number:	23.20
DWG File	
Designed By:	plan4
Drawn By:	GSC
Approved By:	plan4
Date:	03.25.24



SHEET NUMBER
A551

11 x 17 = 1/2 scale



A3 FLOOR PLAN
SCALE: 3/16"=1'-0"

FURNITURE SCHEDULE

TAG	FURNITURE TYPE	MANUFACTURER + STYLE	SIZE	FINISH 1	FINISH 2	FINISH (BASE)	QTY
T-1	ROUND CAFÉ TABLE	HAWORTH, JIVE, ROUND, DISC BASE, KNIFE EDGE	29 H X 42 W X 42 L	HPL PLATINUM	PLY-EDGE	CHARCOAL (TR-K)	18
T-2	SM ROUND CAFÉ TABLE	HAWORTH, JIVE, ROUND, DISC BASE, KNIFE EDGE	29 H X 30 W X 30 L	HPL PLATINUM	PLY-EDGE	CHARCOAL (TR-K)	1
T-3	ROUND BAR TABLE	HAWORTH, JIVE, ROUND, DISC BASE, KNIFE EDGE	42 H X 30 W X 30 L	HPL PLATINUM	PLY-EDGE	CHARCOAL (TR-K)	2
T-4	TEAM DINING TABLE, SM	HAWORTH/ CAPPELLINI, BAC RECTANGLE TABLE, SMALL	29 H X 33.5 W X 78.75 L	OAK STAINED ASH (E4-16)	NA	OAK STAINED ASH (E4-16)	1
T-5	TEAM DINING TABLE	HAWORTH/ CAPPELLINI, BAC RECTANGLE TABLE, LARGE	29 H X 33.5 W X 94.5 L	OAK STAINED ASH (E4-16)	NA	OAK STAINED ASH (E4-16)	2
T-6	BOOTH TABLE	HAWORTH, JIVE, DUAL DISC BASE, PEBBLE, GLIDES, KNIFE EDGE	29 H X 42 W X 66 L	HPL LANDMARK WOOD	PLY-EDGE	CHARCOAL (TR-K)	3
T-7	TRAINING ROOM TABLE	HAWORTH, JIVE, C-LEG EXTRUDED, SINGLE CENTERED POWER MODULE, KNIFE EDGE, FLIP, SOFT CASTERS	30 H X 60 W X 29 L	HPL LANDMARK WOOD	PLY-EDGE	CHARCOAL (TR-K)	15
T-7.1	TRAINING ROOM TABLE	HAWORTH, JIVE, QUARTER CONNECTOR	30 H	HPL LANDMARK WOOD	PLY-EDGE	CHARCOAL (TR-K)	4
OT-1	RND. OCCASIONAL TABLE	LELAND FURNITURE, GEMMA OCCASIONAL TABLE, TOTEM BASE, UP EDGE	15 X 32 W X 32 L	OAK	NA	BLACK	1
OT-2	RECT. OCCASIONAL TBL	STEELCASE, BRIGHTON; TABLE, RECTANGLE	16" X 29" X 42"	FAWN CYPRESS HPL	PLATINUM FEET	BLACK FRAME	1
OT-3	RECT. LAPTOP TABLE	HAWORTH, PIP PERSONAL LAPTOP TABLE, SOFT GLIDE	26 X 12.9 W X 21.3 L	WHITE OAK HARDWOOD (VB-W35)	NA	CHARCOAL (TR-K)	8
OT-4	RND LAPTOP TABLE	HIGHTOWER, KONA LAPTOP HEIGHT, ROUND, STD PWDR COAT BASE, PREMIUM LAMINATE TOP	26 X 18.8 W X 18.8 L	LIGHT GRAY SATIN LAMINATE	NA	BLACK POWDER COAT	2
CH-1	CAFÉ CHAIR, ARMLESS	ALLERMUIR, KIN, ARMLESS, UPHOLSTERED SEAT PAD, WOOD LEG	32" SH-17.5" X 18 X 21	BLACK PLASTIC SHELL	DESIGNTEX-IOTA, CHARCOAL	ASH	72
CH-2	CAFÉ CHAIR, ARMS	ALLERMUIR, KIN, SOLID ARM, UPHOLSTERED SEAT PAD, WOOD LEG	32" SH-17.5" X 23.5 X 22	BLACK PLASTIC SHELL	PALLAS - APHRODITE, RED TIDE	ASH	18
CH-3	TRAINING CHAIR	SITONIT, BAJA 4 LEG CHAIR, FIXED ARM, UPHOLSTERED SEAT & BACK, FLOOR SAVER GLIDES, CART	32.5" SH-18" X 27 X 21.5	BLACK PLASTIC SHELL	DESIGNTEX - IOTA, CHARCOAL	BLACK	40
CH-4	SWIVEL CAFÉ CHAIR	HAWORTH, POPPY GUEST WITH WOOD BASE	33" SH-18" X 24.25 X 24.25	MOMENTUM- TWILL EPU, CARBON (FABRIC WILL NEED TESTING)	SMOOTH PLASTER (TR-PLS) TRIM	CLEAR ON WHITE OAK (M5-W35)	2
CH-5	LOUNGE CHAIR	HAWORTH, POPPY LOUNGE WITH BASKET BASE, CONTRASTING UPH	32.6" SH-17.1" X 31 X 29.4	DESIGNTEX - INK, CARBON (BACK)(FABRIC WILL NEED TESTING)	DESIGNTEX-IOTA, OBSIDIAN (SEAT)(FABRIC WILL NEED TESTING)	BLACK (TR-F)	8
CH-6	SWIVEL LOUNGE CHAIR	ARCADIA, DAV HIGH BACK LOUNGE METAL SWIVEL BASE	42.5" X 31.25 X 29.5	CARNEGIE - SILTECH PRESS, 6298-130	PALLAS - APHRODITE, RED TIDE (SEAT)	MATTE BLACK 0605	4
BS-1	BARSTOOL	ALLERMUIR, KIN- LOW BACK STOOL, PLASTIC SHELL, UPHOLSTERED SEAT PAD, WOOD LEGS	34.75" SH 29.25" X 17.5" SW-16.25" X 14"	BLACK PLASTIC SHELL	PALLAS - APHRODITE, RED TIDE (SEAT)	ASH LEGS W/ WHITE ACCENT TRIM	4
L-1	LOUNGE SOFA	HAWORTH/CASSINA, LC5 SOFA	27.8" SH-15" X 100.8" X 30.5"	CF STINSON - STALLION, BLACK BEAUTY (FABRIC WILL NEED TESTING)	NA	BLACK	2
L-2	BOOTH SOFA	HAWORTH, CABANA, 2 SEAT, FULL BACK, SINGLE ARM, 1 POWER + 2 USB, FELT GLIDES	30.5" SH-17.3" X 72" SW-54" X 30" SD-21.125"	CF STINSON - POLYGON, VALENTINE (BACK)	PALLAS - APHRODITE, RED TIDE (SEAT)	BLACK	6
L-3	TRAINING SOFA	DAVIS, MODO BENCH	30.75" SH-19 W X 96" L	DESIGNTEX-IOTA, OBSIDIAN (BACK)	PALLAS - APHRODITE, RED TIDE (SEAT)	05 MATTE BLACK	3
P-1	POUF, SMALL	DAVIS, RHO 119	19" X 19.75" X 19.75"	DESIGNTEX - IOTA, OBSIDIAN	CARDINAL STITCH DETAIL	PLASTIC ADJUSTABLE GLIDES	1
P-2	POUF, SMALL 2	DAVIS, RHO 119	19" X 19.75" X 19.75"	DESIGNTEX - IOTA, POPPY	BLACK STITCH DETAIL	PLASTIC ADJUSTABLE GLIDES	1
P-3	POUF, LARGE	DAVIS, RHO 128	17.5" X 28" X 28"	DESIGNTEX - IOTA, POPPY	BLACK STITCH DETAIL	PLASTIC ADJUSTABLE GLIDES	1
R-1	RUG	MOHAWK GROUP	9' X 10'	UPLIFTING OTHERS	CREATIVE SOUL	ATTACHED NON-SKID BACKING/ BRICK ASHLAR LAYOUT	1
R-2	RUG	MOHAWK GROUP	11' X 13'	URBAN PASSAGE II	METROPOLIS	ATTACHED NON-SKID BACKING / CUSTOM LAYOUT	1

Architect hereby expressly reserves its common law copyright and other property rights in these plans. These plans and drawings are not to be reproduced, changed, copied or assigned to any third party, in any form or manner whatsoever without first obtaining the express written permission of Plan 4 Architecture Design.

FURNITURE PLAN & SCHEDULE

Farmers Alliance Mutual Insurance
1122 North Main
McPherson, Kansas 67460



Contract Date	
Rev No. 1	
Rev No. 2	
Rev No. 3	
Rev No. 4	
Rev No. 5	
Rev No. 6	
Project Number:	23.20
DWG File	
Designed By:	plan4
Drawn By:	GSC
Approved By:	plan4
Date:	03.25.24

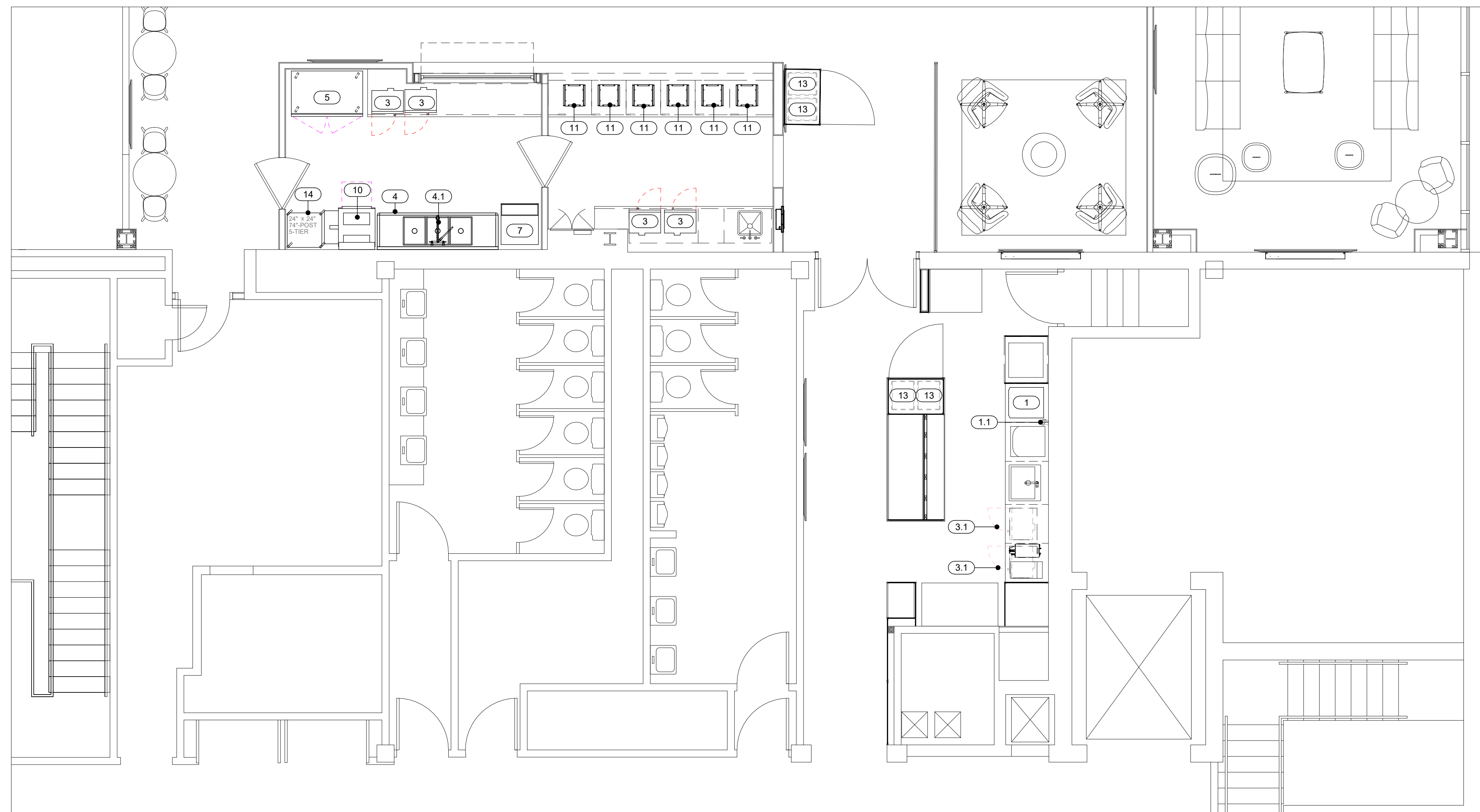


SHEET NUMBER

A600

11 x 17 = 1/2 scale

This drawing & design is sole property of Sunflower Restaurant Supply. Drawings provided are conceptual, not for construction purposes. Contractors are responsible for field verification of details, dimensions, utilities and local code requirements.



OVERALL FLOOR PLAN

1/4" = 1'-0"

FOODSERVICE EQUIPMENT SCHEDULE			
ITEM NO.	QTY	DESCRIPTION	REMARKS
1	1	ICE MACHINE/DISPENSER	
1.1	1	WATER FILTER ASSEMBLY	
2	1	SPARE NUMBER	
3	4	MICROWAVE	
3.1	2	MICROWAVE	
4	1	SINK, 3 COMPARTMENT	
4.1	1	PRE RINSE FAUCET	
5	1	UPRIGHT REACH-IN DUAL TEMPS	
6	1	SPARE NUMBER	
7	1	ICE MAKER, UNDERCOUNTER	BY OTHERS
8	1	SPARE NUMBER	
9	1	SPARE NUMBER	
10	1	HIGH TEMPERATURE DISHWASHER	
11	6	INDUCTION WARMER	
12	1	SPARE NUMBER	
13	4	TRASH CANS	
14	1	WIRE SHELVING UNIT, DRY STORAGE	

FARMER'S ALLIANCE MUTUAL INSURANCE

1122 NORTH MAIN
MCPHERSON, KS 67460

PROJECT
23015

02.23.2024

SDS SDS

FOODSERVICE
EQUIPMENT
PLAN

K-100

This drawing & design is sole property of Sunflower Restaurant Supply. Drawings provided are conceptual, not for construction purposes. Contractors are responsible for field verification of details, dimensions, utilities and local code requirements.

Revision Schedule		
Date	Number	Description

FARMER'S ALLIANCE MUTUAL INSURANCE

1122 NORTH MAIN
MCPHERSON, KS 67460

PROJECT
23015

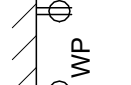
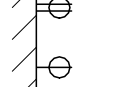
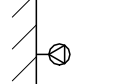
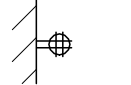

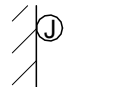


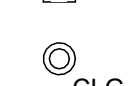


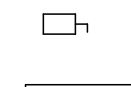
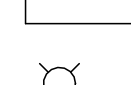
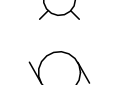
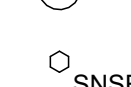
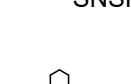
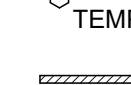



02.23.2024

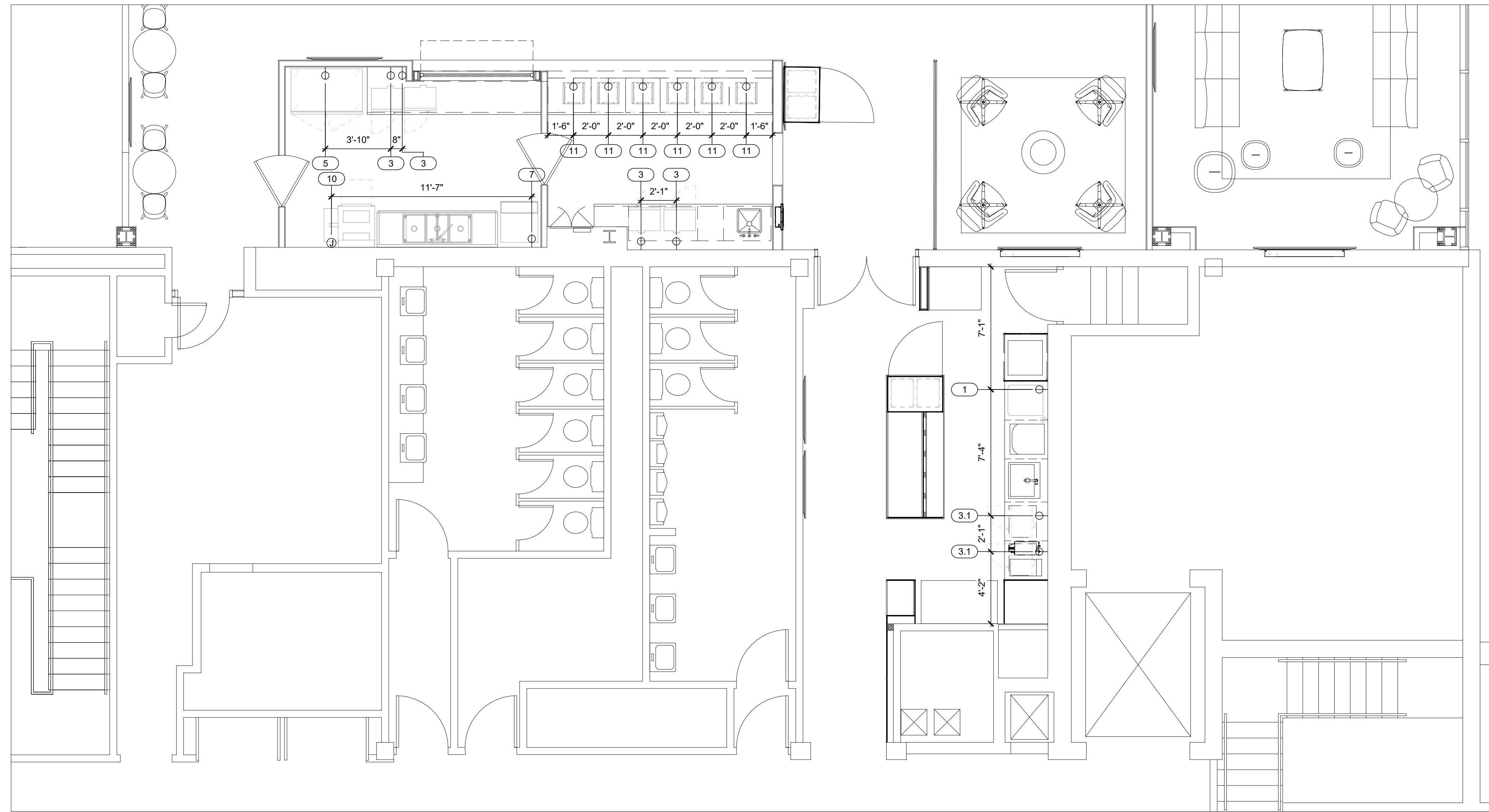
SDS SDS

FOODSERVICE
ELECTRICAL
ROUGH-IN PLAN

K-200

ELECTRICAL LEGEND

-  DUPLEX RECEPTACLE
-  WEATHERPROOF RECEPTACLE
-  SINGLE RECEPTACLE
-  SPECIAL PURPOSE RECEPTACLE
-  QUAD RECEPTACLE
-  FLUSH FLOOR MOUNT RECEPTACLE
-  JUNCTION BOX
-  SWITCH
-  DATA CONNECTION
-  MANUAL FIRE PULL STATION
-  DROP CORD MOUNTED FROM CEILING
-  CONDUIT STUB LOCATION
-  DEFROST TIME CLOCK
-  DISCONNECT
-  LIGHT - RECTANGULAR
-  LIGHT - ROUND
-  MOTOR
-  EXHAUST HOOD SENSOR
-  TEMPERATURE SENSOR
-  PLUG MOLD



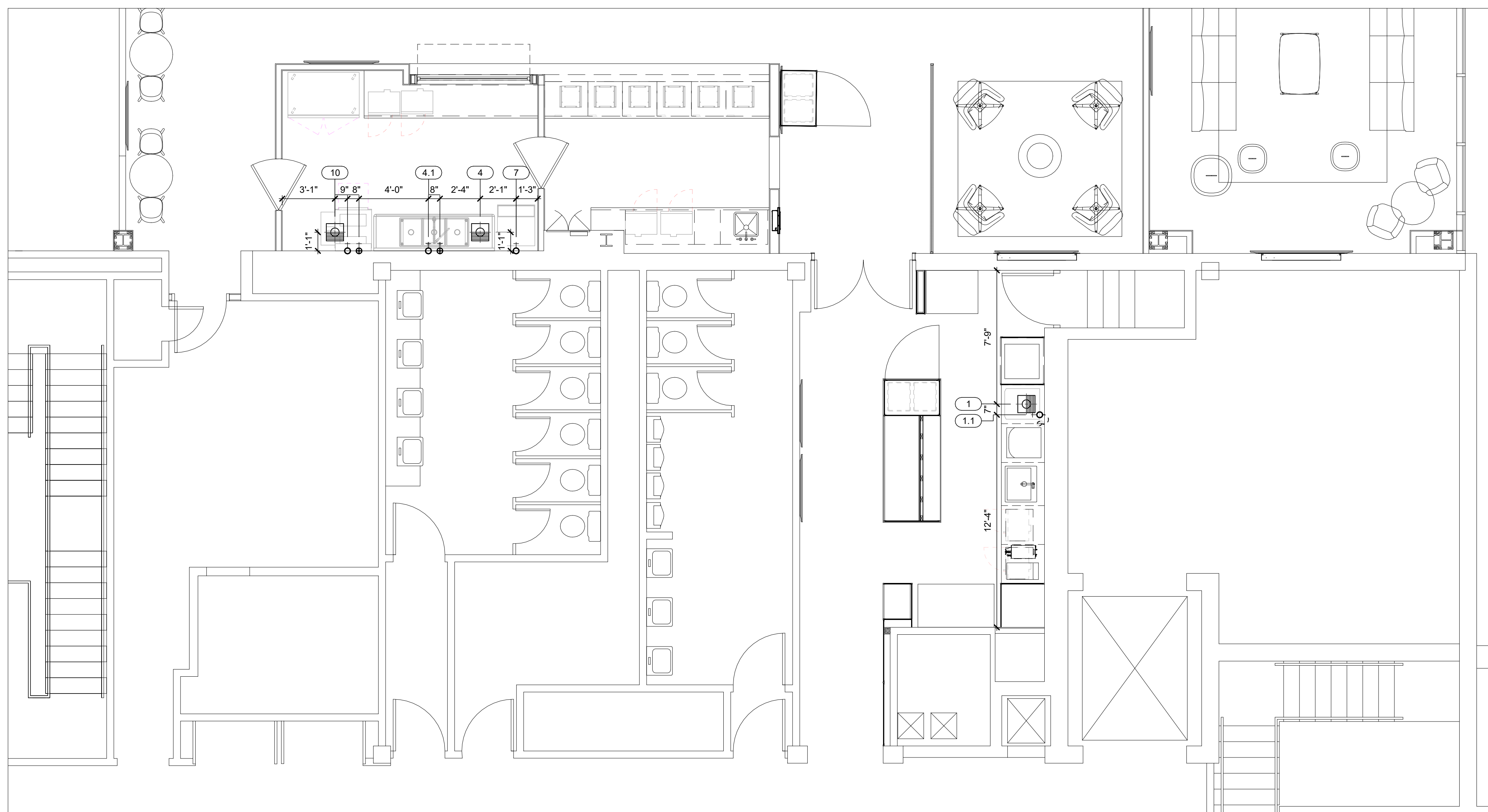
ELECTRICAL ROUGH-IN PLAN

1/4" = 1'-0"

FOODSERVICE ELECTRICAL SCHEDULE

ITEM NO.	QTY	DESCRIPTION	ELECTRICAL			ROUGH-IN / CONNECTION		REMARKS
			VOLTS	PH	AMPS	TYPE	HGT AFF	
1	1	ICE MACHINE/DISPENSER	120	1	15.00	SR	42"	BY OTHERS, VERIFY REQUIREMENTS
3	4	MICROWAVE	120	1	13.00	SR	42"	
3.1	2	MICROWAVE	120	1	13.00	SR	24"	
5	1	UPRIGHT REACH-IN DUAL TEMPS	120	1	9.00	SR	72"	
7	1	ICE MAKER, UNDERCOUNTER	120	1	7.00	SR	24"	
10	1	HIGH TEMPERATURE DISHWASHER	208	1	78.00	JB	60"	
11	6	INDUCTION WARMER	120	1	5.00	SR	24"	

This drawing & design is sole property of Sunflower Restaurant Supply. Drawings provided are conceptual, not for construction purposes. Contractors are responsible for field verification of details, dimensions, utilities and local code requirements.



PLUMBING LEGEND	
+H	HOT WATER
+SH	SOFTENED HOT WATER
+C	COLD WATER
+SC	SOFTENED COLD WATER
+F	FILTERED WATER
+•	DIRECT WASTE
⊕	FLOOR DRAIN
⊕	FLOOR SINK - THREE-QUARTER GRATE
⊕	FLOOR SINK - PARTIAL GRATE
⊕	FLOOR SINK - NO GRATE
⊕	FUNNEL FLOOR DRAIN
⊕	HUB FLOOR DRAIN
⊕	AREA FLOOR DRAIN - SLOPED PER CODE
+•	GAS DROP FROM MANIFOLD
⊗	FIRE SUPPRESSION GAS SHUT-OFF VALVE
+CS	CHILLED WATER
+CR	CHILLED WATER RETURN
⊕SS	STEAM SUPPLY
⊕CR	CONDENSATE RETURN

PLUMBING ROUGH-IN PLAN

1/4" = 1'-0"

FOODSERVICE PLUMBING SCHEDULE											
ITEM NO.	QTY	DESCRIPTION	WATER				WASTE DIRECT	GAS			REMARKS
			HOT SIZE	COLD SIZE	FILTERED SIZE	AFF		SIZE	MBTU	AFF	
1	1	ICE MACHINE/DISPENSER			3/8"	16"					IW; PC TO RUN INDIRECT WASTE TO FLOOR SINK, PC TO EXTEND CW THROUGH WATER FILTER
1.1	1	WATER FILTER ASSEMBLY			3/8"	16"					PC TO EXTEND TO DISPENSER
4	1	SINK, 3 COMPARTMENT									IW; PC TO RUN INDIRECT WASTE TO FLOOR SINK
4.1	1	PRE RINSE FAUCET	1/2"	16"	1/2"	16"					
7	1	ICE MAKER, UNDERCOUNTER			3/8"	16"					BY OTHERS - IW; PC TO RUN INDIRECT WASTE TO FLOOR SINK
10	1	HIGH TEMPERATURE DISHWASHER	1/2"	60"	1/2"	16"					IW; PC TO RUN INDIRECT WASTE TO FLOOR SINK

FARMER'S ALLIANCE MUTUAL INSURANCE

1122 NORTH MAIN
MCPHERSON, KS 67460

PROJECT
23015

02.23.2024

SDS SDS

FOODSERVICE
PLUMBING
ROUGH-IN PLAN

K-300

PROJECT GENERAL NOTES

- ALL WORK PERFORMED SHALL COMPLY WITH CURRENT FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
- CONTRACTOR SHALL REPORT ANY CONFLICTS TO THE ENGINEER IMMEDIATELY.
- CONTRACTOR SHALL REVIEW THE DRAWINGS AND SPECIFICATIONS PRIOR TO BIDDING JOB AND DURING CONSTRUCTION. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND SHOW THE GENERAL INSTALLATION OF EQUIPMENT & MATERIALS IN RELATIONSHIP TO STRUCTURE & OTHER TRADES. DRAWINGS MAY NOT INDICATE EVERY REQUIRED OFFSET, FITTING, ETC. FIELD VERIFY ACTUAL JOB CONDITIONS AND COORDINATE WORK WITH OTHER TRADES PRIOR TO BIDDING JOB, ORDERING EQUIPMENT, FABRICATION OF MATERIALS, OR STARTING WORK.
- PROVIDE EQUIPMENT, MATERIALS, & LABOR FOR A COMPLETE PROJECT AS SHOWN IN THE DRAWINGS AND SPECIFICATIONS. CHANGE ORDERS WILL NOT BE GRANTED DUE TO LACK OF COORDINATION WITH OTHER TRADES & JOB CONDITIONS.
- IF EQUIPMENT, MATERIALS, ETC. OTHER THAN THOSE SCHEDULED & SPECIFIED ARE FURNISHED, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL ITEMS THAT AFFECT OTHER DISCIPLINES WITH THE CORRESPONDING CONTRACTOR AND THE GENERAL CONTRACTOR. ADDITIONAL FUNDING FOR DEVIATIONS WILL NOT BE ALLOWED.
- MAINTAIN ALL REQUIRED CLEARANCES FOR NEW AND/OR EXISTING EQUIPMENT, FRESH AIR OPENINGS, EXHAUST/VENT OPENINGS, AND COMBUSTION OPENINGS.
- THE GC SHALL CUT/PATCH FLOORS, WALLS, CEILINGS, & ROOFS AS REQUIRED FOR INSTALLATION/DEMOLITION OF MECHANICAL AND PLUMBING SYSTEMS CONVEYED IN THESE DRAWINGS. COORDINATE WITH GC.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR STORAGE OF EQUIPMENT AND MATERIALS DURING CONSTRUCTION. ITEMS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- UPON COMPLETION OF THE PROJECT THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS TO THE OWNER, ARCHITECT, AND ENGINEER SHOWING EQUIPMENT, DUCTWORK, PIPING, ETC. THAT DIFFERS FROM CONSTRUCTION DOCUMENTS AS THEY ARE ACTUALLY INSTALLED. AS-BUILT DRAWINGS ARE TO BE READILY AVAILABLE ON SITE AND ALL CHANGES ARE TO BE DOCUMENTED IMMEDIATELY.
- THE RESPONSIBILITY OF EACH CONTRACTOR IS NOT LIMITED TO THEIR SPECIFIC DISCIPLINE'S DRAWING SHEETS. REFER TO OTHER DISCIPLINE'S DRAWING SHEETS AS REQUIRED FOR ADDITIONAL INFORMATION/INSTRUCTIONS.
- FIRE SEAL ALL PENETRATIONS THRU RATED ASSEMBLIES WITH APPROPRIATE SLEEVE / PROTECTION MATERIAL.
- UNLESS NOTED OTHERWISE, SCHEDULED OR INDICATED AIR FLOWS ARE CUBIC FEET PER MINUTE (CFM), WATER FLOWS ARE GALLONS PER MINUTE (GPM), AIR PRESSURE DROPS AND STATIC PRESSURES ARE INCHES OF WATER COLUMN (I.W.C.), AIR VELOCITIES ARE FEET PER MINUTE (FPM), WATER PRESSURE DROPS AND PUMP HEADS ARE FEET OF WATER COLUMN (FT. HD.), WATER VELOCITIES ARE FEET PER SECOND (FPS), CAPACITIES ARE THOUSANDS BTUH (MBH), TEMPERATURES ARE °F, WEIGHTS ARE POUNDS (LB.), AREAS ARE SQUARE FEET (SQ. FT.), VOLUMES ARE GALLONS (GAL.), SOUND POWER LEVELS ARE DECIBELS (DB).
- REMOVE ALL SUPPORTS, HANGARS, ACCESSORIES, ETC. ASSOCIATED WITH PIPING, DUCTWORK, EQUIPMENT, ETC. INDICATED TO BE DEMOLISHED UNLESS NOTED OTHERWISE.
- DO NOT ROUTE DUCTWORK OR PIPING ABOVE ELECTRICAL PANELS OR ELECTRICAL GEAR.
- ALL EXTERIOR WALL AND/OR ROOF PENETRATIONS ARE TO BE SEALED WEATHERTIGHT.
- PROVIDE AND INSTALL SUPPLEMENTAL STEEL FRAMING AS REQUIRED FOR SUPPORT OF SYSTEM COMPONENTS.
- SUPPORT ALL PIPING AND DUCTWORK INDEPENDENTLY FROM ASSOCIATED EQUIPMENT, SO NO GRAVITY LOAD IS ON UNIT CONNECTIONS.

PROJECT MECHANICAL NOTES

- COORDINATE INSTALLATION OF MECHANICAL SYSTEMS WITH OTHER TRADES TO ENSURE NEAT AND ORDERLY INSTALLATION.
- FIELD MEASURE FINAL DUCTWORK AND PIPING LOCATIONS PRIOR TO FABRICATION AND MAKE ADJUSTMENTS AS REQUIRED.
- ADJUST LOCATION OF CEILING DIFFUSERS, REGISTERS AND GRILLES AS REQUIRED TO ACCOMMODATE FINAL CEILING GRID, STRUCTURE, AND LIGHTING LOCATIONS.
- COORDINATE ACCESS TO EQUIPMENT, VALVES, AND DAMPERS INSTALLED ABOVE 'INACCESSIBLE' CEILINGS AND IN CHASES, ETC. WITH GC. GC SHALL PROVIDE AND INSTALL ACCESS DOORS FOR EQUIPMENT SERVICE, DAMPERS AND / OR VALVES.
- A MAXIMUM LENGTH OF 5'-0" FLEX DUCT MAY BE USED AT EACH RUNOUT TO SUPPLY DIFFUSERS. FLEX DUCT SHALL ONLY BE USED ABOVE LAY-IN CEILINGS AND IN CONCEALED LOCATIONS, AND SHALL NOT BE USED IN RETURN OR EXHAUST SYSTEMS.
- DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
- INSTALL MANUAL BALANCING DAMPER IN DUCT RUNOUTS TO AIR DEVICES WITH AIRFLOW INDICATED IN TAG, UNLESS DEVICE IS SCHEDULED TO BE PROVIDED WITH OPPOSED BLADE DAMPER. THIS INCLUDES AT EQUIPMENT SERVING ONE AIR DEVICE.
- THERMOSTATS SHALL BE PLACED AT 4'-0" MAXIMUM ABOVE FINISHED FLOOR TO MEET ADA REQUIREMENTS.
- PROVIDE FLEXIBLE CONNECTION AT ALL DUCT CONNECTIONS TO EQUIPMENT.
- ROOF EQUIPMENT CURB HEIGHTS SHALL BE SELECTED TO ALLOW 8" (MIN) BETWEEN BOTTOM OF EQUIPMENT AND ROOF SURFACE.
- ALL FILTERS SHALL BE NEW AT PROJECT TURNOVER, AND ONE (1) SET OF SPARE FILTERS FOR ALL EQUIPMENT SHALL BE PROVIDED TO THE OWNER.

PROJECT PLUMBING NOTES

- COORDINATE INSTALLATION OF PLUMBING SYSTEMS WITH OTHER TRADES TO ENSURE NEAT AND ORDERLY INSTALLATION.
- FIELD MEASURE FINAL PIPING LOCATIONS PRIOR TO FABRICATION AND MAKE ADJUSTMENTS AS REQUIRED.
- COORDINATE ROUTING OF PLUMBING AND PIPING WITH DUCTWORK, LIGHTS, ARCHITECTURAL CEILING AND STRUCTURAL ELEMENTS. DUCTWORK SHALL TAKE PRECEDENCE OVER ALL PIPING, EXCEPT WHERE GRADE MUST BE MAINTAINED FOR DRAINAGE.
- NO PIPING SHALL PENETRATE STRUCTURAL MEMBERS.
- PROVIDE WCO AT BASE OF ALL WASTE STACKS INCLUDING LAVATORIES AND SINKS.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS OF SANITARY SEWER / WATER / GAS SERVICES. COORDINATE WITH LOCAL UTILITIES AND AUTHORITIES WHERE REQUIRED.
- REFER TO PLUMBING FIXTURE SCHEDULE FOR PIPING RUN-OUT SIZES TO EACH INDIVIDUAL PLUMBING FIXTURE.
- CONTRACTOR SHALL VERIFY ALL CONNECTION REQUIREMENTS TO EQUIPMENT PROVIDED BY OTHERS.
- UTILIZE LONG RADIUS SANITARY PATTERN FITTINGS FOR ALL CHANGES IN DIRECTION IN CONDENSATE DRAIN PIPING. PROVIDE CLEANOUT AT EACH 135° CHANGE IN DIRECTION.
- PROVIDE TRAP GUARD DIAPHRAGM AT EACH FLOOR DRAIN, FLOOR SINK, AND TRENCH DRAIN, UNLESS NOTED OTHERWISE.
- ALL PVC PIPING/DUCTING SHALL BE SOLID CORE.

SYMBOLS

HVAC DUCTWORK & ACCESSORIES

SYMBOL	ABBR	DESCRIPTION	SYMBOL	ABBR	DESCRIPTION
		NEW DUCTWORK			45° TAKEOFF FITTING WITH MANUAL VOLUME DAMPER
		EXISTING DUCTWORK			MANUAL VOLUME DAMPER
		EXISTING DUCTWORK TO BE REMOVED		M	MOTORIZED DAMPER
		RECTANGLE DUCT UP		FD	FIRE DAMPER
		RECTANGLE DUCT DOWN		FS	COMBINATION FIRE/SMOKE DAMPER
		RECTANGULAR VANED ELBOW		S	SMOKE DAMPER
		ROUND DUCT UP			
		ROUND DUCT DOWN			
		ROUND ELBOW			
		CONCENTRIC TRANSITION			
		ECCENTRIC TRANSITION			
		SQUARE TO ROUND TRANSITION			
		DUCT DROP/RISE IN DIRECTION OF ARROW			
	SAG	DIFFUSER			
	RAG BAG	RETURN / EXHAUST AIR GRILLE			
		ARROW INDICATES THROW DIRECTION			

PIPING

SYMBOL	ABBR	DESCRIPTION	SYMBOL	ABBR	DESCRIPTION
	W	SANITARY WASTE BELOW FLOOR			ELBOW UP
	GW	GREASE WASTE			ELBOW DOWN
	MUD/OIL	MUD OR OIL			TEE UP
	V	SANITARY VENT			TEE DOWN
	CD	CONDENSATE DRAIN			PIPE CAP OR PLUG
	RD	ROOF DRAIN			BALL VALVE
	ORD	ROOF OVERFLOW			BUTTERFLY VALVE
	CW	DOMESTIC COLD WATER			GATE VALVE
	HW	DOMESTIC HOT WATER			MANUAL BALANCING VALVE
	140°	DOMESTIC 140° HOT WATER			CHECK VALVE
	HWC	DOMESTIC HOT WATER CIRCULATING			STRAINER
	FP	FIRE PROTECTION			GAS COCK
	G	NATURAL GAS			PIPING UNION
	CWS	CHILLED WATER SUPPLY			PIPE REDUCER
	CWR	CHILLED WATER RETURN			VALVE IN RISER
	HWS	HEATING WATER SUPPLY			2-WAY CONTROL VALVE
	HWR	HEATING WATER RETURN			3-WAY CONTROL VALVE
	CTS	COOLING TOWER SUPPLY		HB	HOSE BIBB
	CTR	COOLING TOWER RETURN		FPWH	FREEZE PROOF WALL HYDRANT
	HPS	HEAT PUMP SUPPLY		FD	FLOOR DRAIN
	HPR	HEAT PUMP RETURN		FS	FLOOR SINK
	S	STEAM SUPPLY		RD/ORD	ROOF DRAIN
	CR	STEAM CONDENSATE RETURN		WCO	WALL CLEANOUT
	R	REFRIGERATION COMPRESSED AIR		FCO	FLOOR CLEANOUT
	N	NITROGEN		VTR	VENT THRU ROOF
	VAC	VACUUM		CO	CLEANOUT

ABBREVIATIONS

SYMBOL	ABBR	DESCRIPTION
	P1.1	PLUMBING FIXTURE NUMBER
	E-1	EQUIPMENT DESIGNATION
		PLAN NOTE
	POC	POINT OF CONNECTION (CONNECT NEW TO EXISTING)
	(E)	EXISTING
	ABV	ABOVE
	BLW	BELOW
	DN	DOWN
	BTWN	BETWEEN
	BOD	BOTTOM OF DUCT (ABOVE FINISHED FLOOR)
	BOP	BOTTOM OF PIPE
	NTS	NOT TO SCALE
	AFF	ABOVE FINISHED FLOOR
	CA	COMBUSTION AIR
	OA	OUTDOOR AIR
	EA	EXHAUST AIR
	SA	SUPPLY AIR
	RA	RETURN AIR
	TA	TRANSFER AIR
	EAT	ENTERING AIR TEMPERATURE
	LAT	LEAVING AIR TEMPERATURE
	EWT	ENTERING WATER TEMPERATURE
	LWT	LEAVING WATER TEMPERATURE
	DB	DRY BULB TEMPERATURE
	WB	WET BULB TEMPERATURE
	CLNG	COOLING
	HTNG	HEATING
	SAG	SUPPLY AIR GRILLE
	RAG	RETURN AIR GRILLE
	TAG	TRANSFER AIR GRILLE
	OBD	OPPOSED BLADE DAMPER
	PBD	PARALLEL BLADE DAMPER
	WPL	WEATHER PROOF LOUVER
	WT	WEIGHT
	ESP	EXTERNAL STATIC PRESSURE
	APD	AIR PRESSURE DROP
	WPD	WATER PRESSURE DROP
	PD	PRESSURE DROP
	CM	CONSTRUCTION MANAGER
	GC	GENERAL CONTRACTOR
	MC	MECHANICAL CONTRACTOR
	PC	PLUMBING CONTRACTOR
	EC	ELECTRICAL CONTRACTOR
	TCC	TEMPERATURE CONTROLS CONTRACTOR
	UNO	UNLESS NOTED OTHERWISE
	RPZ	REDUCED PRESSURE ZONE ASSEMBLY
	PRV	PRESSURE REDUCING VALVE
		THERMOSTAT/SENSOR
		HUMIDISTAT/SENSOR
		WALL SWITCH / SENSOR
		CARBON DIOXIDE SENSOR

PROJECT DESIGN CRITERIA

LOCATION	COOLING DESIGN	HEATING DESIGN	ENERGY DESIGN	GOVERNING CODES
PROJECT CITY: MCPHERSON, KANSAS PROJECT ELEVATION: 1543 FT. ABOVE SEA LEVEL	DESIGN WEATHER BASIS: ASHRAE 0.4% DESIGN DRY BULB: 100.7° F MEAN COINC. WET BULB: 73.3° F	DESIGN WEATHER BASIS: ASHRAE 99.6% DESIGN DRY BULB: 5.6° F	ASHRAE CLIMATE ZONE: 4A COOLING DEGREE DAYS(65): 1648 HEATING DEGREE DAYS(50): 1988	BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE MECHANICAL CODE: 2018 INTL. MECHANICAL CODE PLUMBING CODE: 2018 INTL. PLUMBING CODE ELECTRICAL CODE: 2017 NATIONAL ELECTRIC CODE ENERGY CODE: 2010 ASHRAE 90.1 FIRE CODE: 2018 INTERNATIONAL FIRE CODE
ASHRAE CLIMATE DATA LOCATION: HUTCHINSON MUNICIPAL AIRPORT	DESIGN WET BULB: 77.4° F MEAN COINC. DRY BULB: 91.4° F			

MECHANICAL DESIGN CRITERIA

Farmers Alliance Mutual Insurance
1122 North Main
McPherson, Kansas 67460

Contract Date	
Rev No. 1	
Rev No. 2	
Rev No. 3	
Rev No. 4	
Rev No. 5	
Rev No. 6	
Project Number:	22.31
DWG File	
Designed By:	CRS
Drawn By:	KGB
Approved By:	plan4
Date:	03/25/24



801 E. DOUGLAS
2ND FLOOR
WICHITA, KS 67202
INNOVATIVEGROUPS.COM

INNOVATIVE GROUPS
11 x 17 = 1/2 scale

SHEET NUMBER
MP001

Architect hereby expressly reserves its common law copyright and other property rights in these plans. These plans and drawings are not to be reproduced, changed, copied or assigned to any third party, in any form or manner whatsoever without first obtaining the express written permission of Plan4 Architecture Design.

PLUMBING FIXTURE SCHEDULE

TAG	TYPE	MANUFACTURER / MODEL	SIZE	MATERIAL	MOUNTING TYPE	FLUSH VALVE / TANK	ADA COMPLIANT	CARRIER	MOUNTING HEIGHTS	ROUGH-IN SIZES			TRIM & ACCESSORIES								NOTES
										WASTE	VENT	MANUFACTURER / MODEL	MOUNTING HEIGHTS	FAUCET HOLES	ADA COMPLIANT	STRAINER	HOSE & SPRAY	ROUGH-IN SIZES			
																		ABOVE GRADE	BELOW GRADE	ABOVE GRADE	
P1.1	SCS	AMERICAN STANDARD/PEKO	17x17x8	SS	UC	-	-	-	-	1-1/2"	2"	1-1/2"	AMERICAN STANDARD / STUDIO S 7102801	-	3	X	A	-	1/2"	1/2"	1.3,4
P1.2	SCS	AMERICAN STANDARD/PEKO	25x22x9	SS	UC	-	-	-	-	1-1/2"	2"	1-1/2"	AMERICAN STANDARD / STUDIO S 4803300	-	1	X	-	-	1/2"	1/2"	2.3,4
P1.3	TCS	PROVIDED BY KES	-	SS	F	-	-	-	-	1-1/2"	2"	1-1/2"	PROVIDED BY KES	-	-	-	-	-	3/4"	3/4"	-
P2	IMB	GUYGRAY/MB1HAAB	7x7	-	W	-	-	-	-	-	-	-	-	-	-	-	-	-	1/2"	-	-
P3	WBF	ELKAY/LBWD00	5-1/8x18x28	SS	W	-	X	-	A	1-1/4"	2"	1-1/2"	-	-	-	-	-	-	1/2"	-	-
P4	DB	GUYGRAY/T200LV	14x9	-	W	-	-	-	-	2"	2"	1-1/2"	-	-	-	-	-	-	-	-	-

GENERAL NOTES:
A. WHERE TRIM IS NOT CONCEALED BY ARCHITECTURAL APRON/CASEWORK, PROVIDE ADA COMPLIANT LAVATORIES & SINKS WITH TRUEBRO MODEL 103 INSULATION KIT WITH P-TRAP COVER, OFFSET TAILPIECE WHEEL CHAIR COVER, TWO ANGLE STOPS WITH SUPPLY COVERS.
B. ELECTRONIC SENSOR OPERATED FLUSH VALVES AND FAUCETS SHALL BE BATTERY POWERED.

NOTES:
1. PROVIDE FAUCET WITH RIGID SPOUT.
2. PROVIDE FAUCET WITH SWIVEL SPOUT.
3. PROVIDE LEAD-FREE POWERS 480 (OR EQUAL) THERMOSTATIC MIXING VALVE. OUTLET TEMPERATURE FROM FAUCET SHALL BE SET 110°F.
4. FAUCET FINISH OPTION MATTE BLACK.

PLUMBING FIXTURE LEGEND

TYPE	MATERIAL	MOUNTING TYPE	MOUNTING HEIGHTS	STRAINER
SCS SINGLE COMP SINK TCS TRIPLE COMP SINK WBF WATER BOTTLE FILLER IMB ICE MAKER BOX	SS STAINLESS STEEL	F FLOOR W WALL HUNG UC UNDER-COUNTER	A BOTTLE FILLER SENSOR AT 47" AFF (MAX)	A GRID

AIR TERMINAL SCHEDULE

TAG	MODEL	STYLE	USE	LOCATION	MOUNTING	MATERIAL	FINISH	OBD	FD	RD	NOTES
A	TDC	LOUVERED	SUPPLY	CEILING	LAY-IN/SURFACE	STEEL	WHITE PAINT	-	-	-	-
B	50F-B	EGGCRATE	RETURN	CEILING	LAY-IN	ALUMINUM	BLACK PAINT	-	-	-	1
C	ML-39	LINEAR SLOT	SUPPLY	WALL / DUCT	SURFACE	STEEL	WHITE PAINT	-	-	-	2

GENERAL NOTES:
A. AIR TERMINALS ARE BASED ON TITUS.
B. BRANCH DUCT SIZE SHALL BE SAME AS NECK SIZE UNLESS OTHERWISE SHOWN ON PLANS.
C. PROVIDE RECTANGULAR TO ROUND ADAPTERS AS REQUIRED.
D. PROVIDE SURFACE MOUNTING FRAMES AS REQUIRED.
E. BLADES SHALL BE PARALLEL TO THE LONG DIMENSION UNLESS NOTED OTHERWISE.
F. ALL SURFACES VISIBLE THROUGH THE FACE OF THE AIR TERMINAL SHALL BE PAINTED FLAT BLACK.

NOTES:
1. PROVIDE WITH 12x24 OR 24x24 LAY-IN PANEL AS INDICATED ON PLANS
2. PROVIDE MPI-39 INSULATED PLENUM FOR MODULINEAR SLOT DIFFUSER.

AIR TERMINALS LEGEND

OBD = OPPOSED BLADE DAMPER (TAG) (NECK SIZE) IF NECK SIZE IS NOT INDICATED
FD = FIRE DAMPER A-8x8 SIZE SHALL CORRESPOND TO
RD = RADIATION DAMPER 100 BRANCH DUCT SIZE INDICATED ON (CFM) PLAN

MINISPLIT SYSTEM SCHEDULE

OUTDOOR UNIT TAG	INDOOR UNIT TAG	INDOOR UNIT							OUTDOOR UNIT		ELECTRICAL		NOTES	
		MODEL	TYPE	FLOW	ESP	CLNG. CAPACITY TOTAL	SENS.	HTNG. CAP.	WT.	MODEL	WT.	MCA		MCCP
DSS-1	DSS-1A	NTXCK09A112BA	4-WAY CLNG CASS	335	0.0	7.2	7.1	7.3	31	NTXMPH24A132AA	189	30.5	40	1
	DSS-1B	NTXCK09A112BA	4-WAY CLNG CASS	335	0.0	7.2	7.1	7.3	31					
	DSS-1C	NTXCK09A112BA	4-WAY CLNG CASS	335	0.0	7.2	7.1	7.3	31					

GENERAL NOTES:
A. MINISPLIT SYSTEMS ARE BASED ON MITSUBISHI ELECTRIC TRANE HVAC US.
B. COOLING CAPACITIES BASED ON 80°F DB/67°F WB INDOOR UNIT ENTERING AIR TEMPERATURE, 95°F DB OUTDOOR UNIT AMBIENT TEMPERATURE. HEATING CAPACITIES BASED ON 70°F DB INDOOR UNIT, 43°F WB OUTDOOR UNIT.
C. INDOOR UNITS ARE POWERED FROM OUTDOOR UNITS. ALL SYSTEMS 208-230V/1Ø UNLESS NOTED OTHERWISE.
D. FAN FLOW FOR DUCTLESS TYPE UNITS SHOWN FOR REFERENCE ONLY. TAB CONTRACTOR SHALL NOT ATTEMPT TO BALANCE UNIT FAN.
E. PROVIDE SIMPLE MA PROGRAMMABLE WIRED CONTROLLER FOR EACH INDOOR UNIT.
F. ALL CEILING CASSETTE UNITS SHALL BE PROVIDED WITH WASHABLE FILTER. PROVIDE ONE (1) EXTRA SET FOR EACH INDOOR UNIT.
G. PROVIDE HAIL GUARDS ON ALL OUTDOOR UNITS.
H. REFRIGERANT PIPING SHALL BE SIZED BY UNIT MANUFACTURER ACCOUNTING FOR LENGTH, ELBOWS, ELEVATION DIFFERENCE, ETC.

NOTES:
1. PROVIDE INTERNAL CONDENSATE PUMP. PUMP TO BE POWERED BY INDOOR UNIT.

MECHANICAL SCHEDULES

Farmers Alliance Mutual Insurance
1122 North Main
McPherson, Kansas 67460



ARCHITECTURE DESIGN www.plan4arch.com
303 north main st., mcpherson kansas 67024-14353

Contract Date	
Rev No. 1	
Rev No. 2	
Rev No. 3	
Rev No. 4	
Rev No. 5	
Rev No. 6	
Project Number:	22.31
DWG File	
Designed By:	CRS
Drawn By:	KGB
Approved By:	plan4
Date:	03/25/24

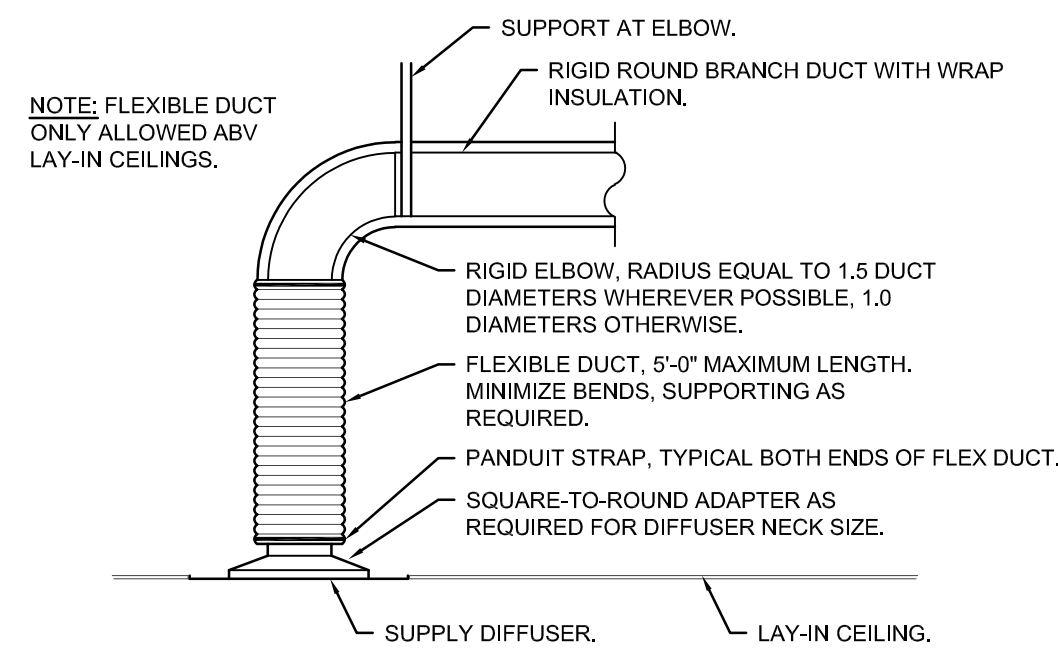



801 E. DOUGLAS
2ND FLOOR
WICHITA, KS 67202
INNOVATIVEGROUPS.COM

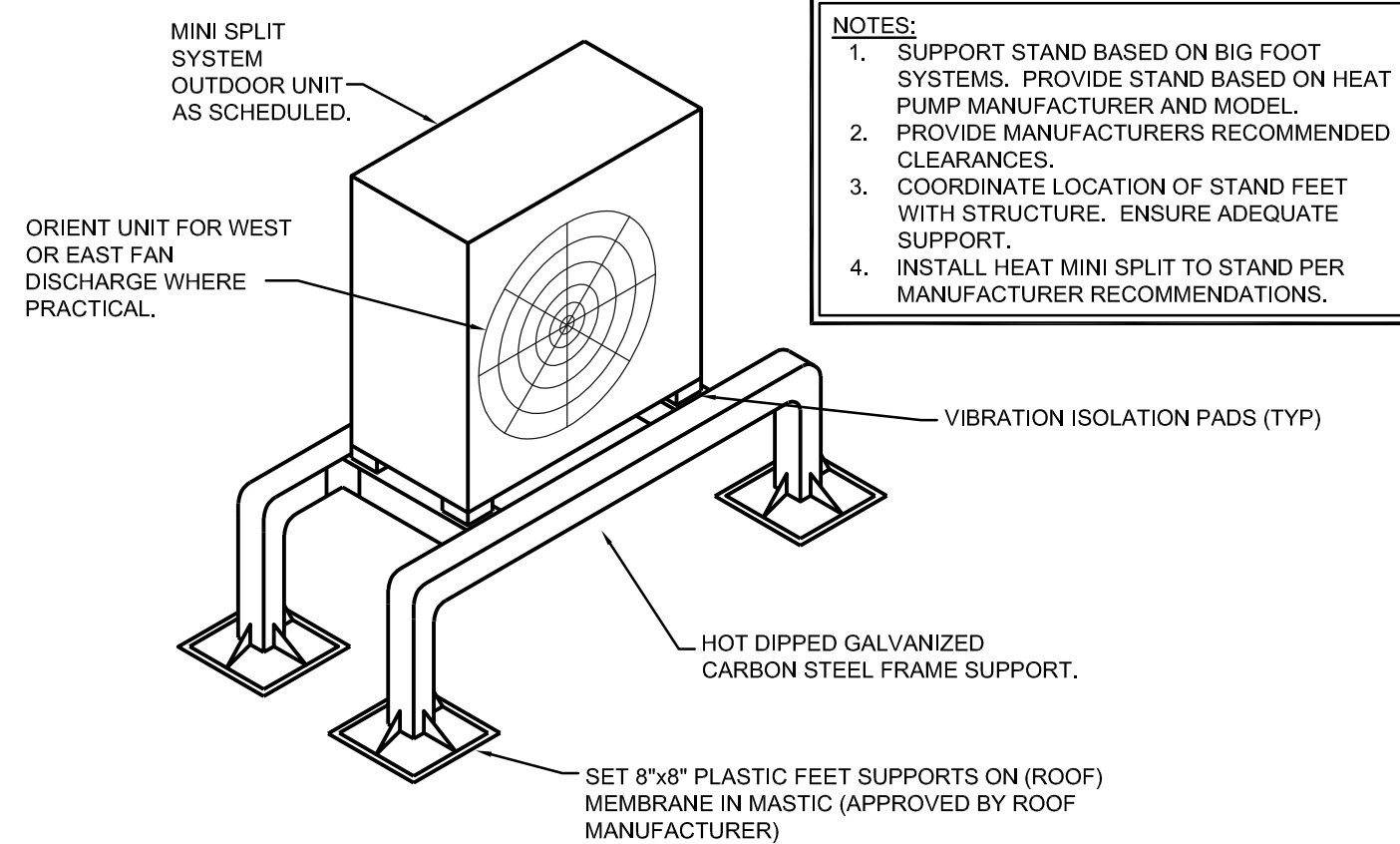
INNOVATIVE GROUPS
11 x 17 = 1/2 scale

SHEET NUMBER
MP101

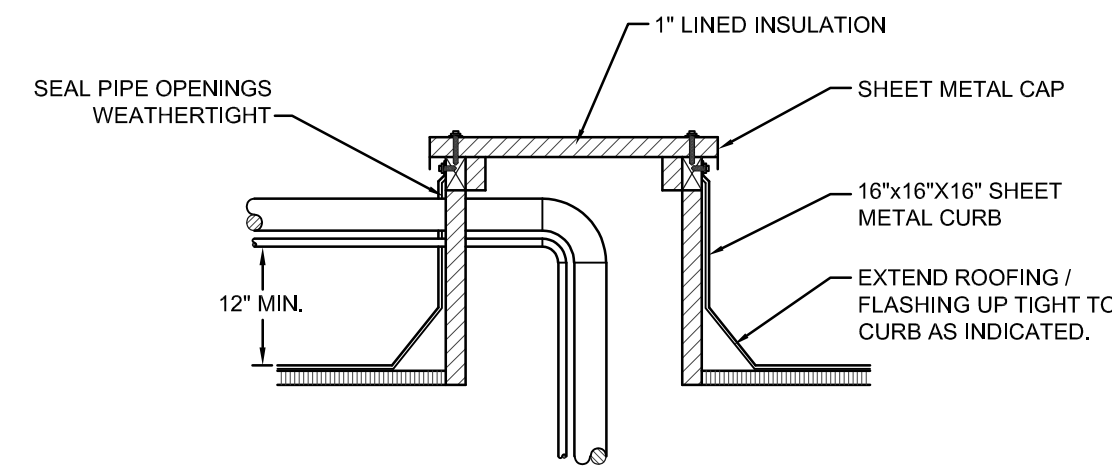
Architect hereby expressly reserves its common law copyright and other property rights in these plans. These plans and drawings are not to be reproduced, changed, copied or assigned to any third party, in any form or manner whatsoever without first obtaining the express written permission of Plan4 Architecture Design.



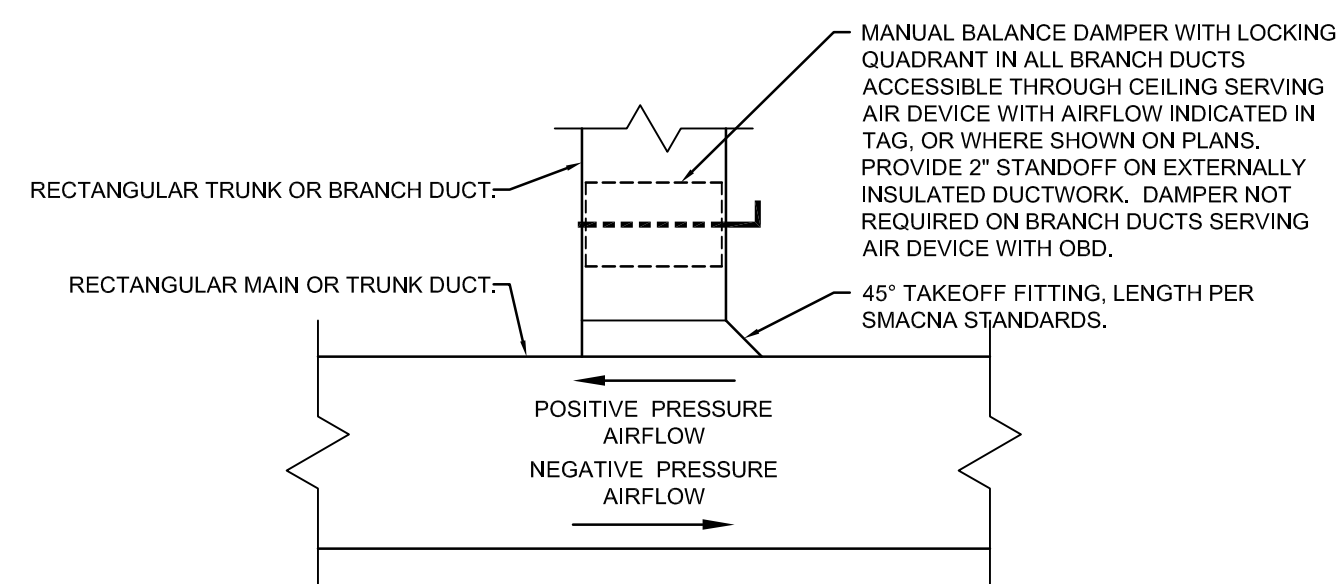
1 DIFFUSER CONNECTION DETAIL
NO SCALE



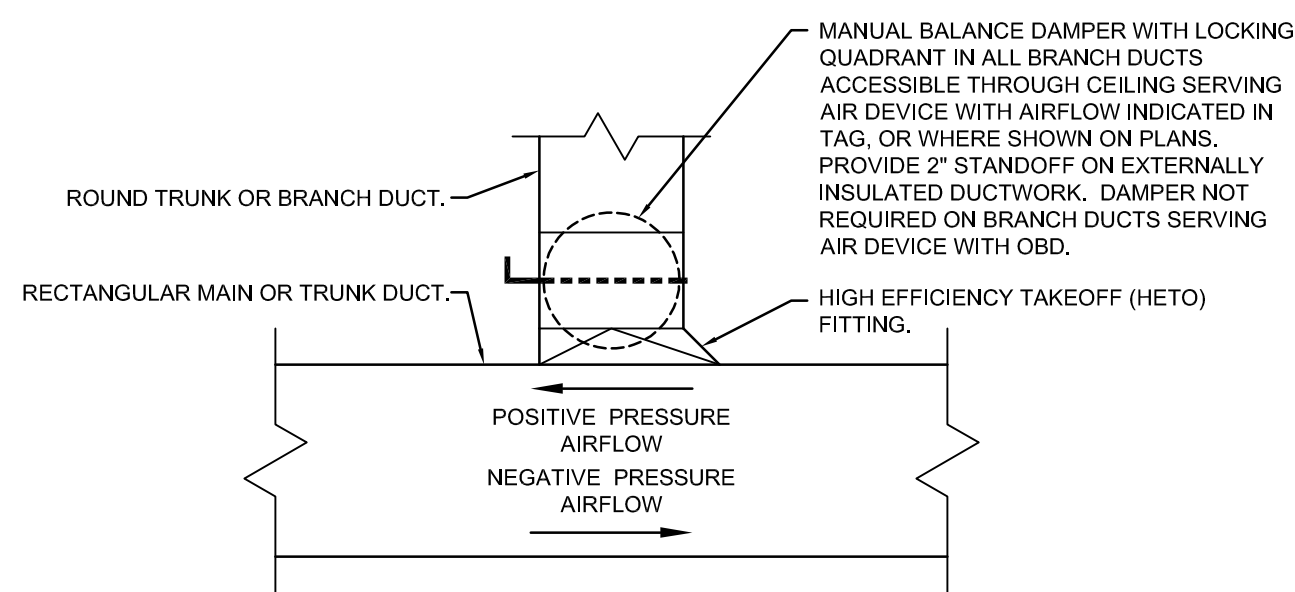
2 MINISPLIT OUTDOOR UNIT MOUNTING DETAIL
NO SCALE



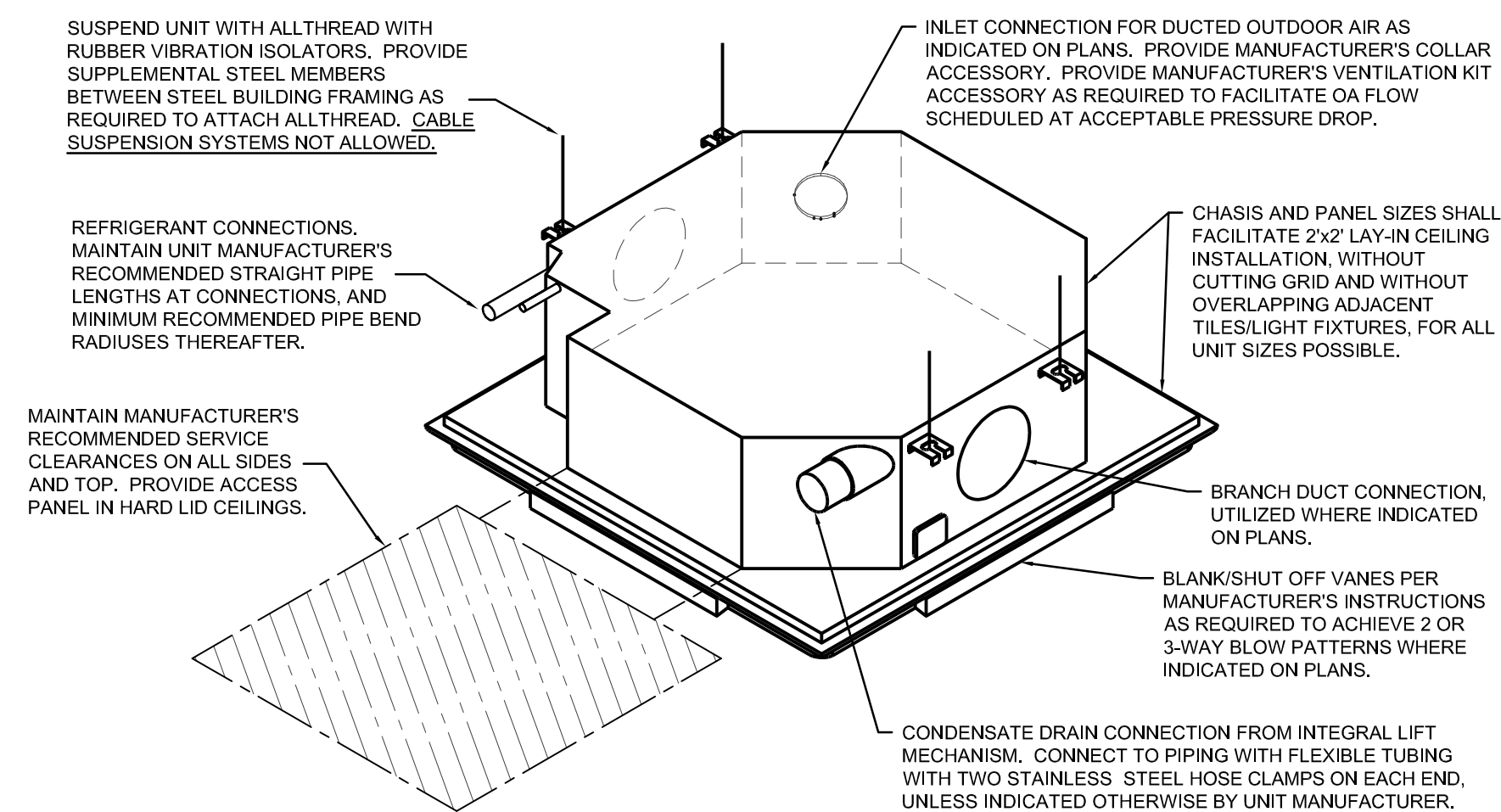
3 REFRIGERANT PIPING CURB DETAIL
NO SCALE



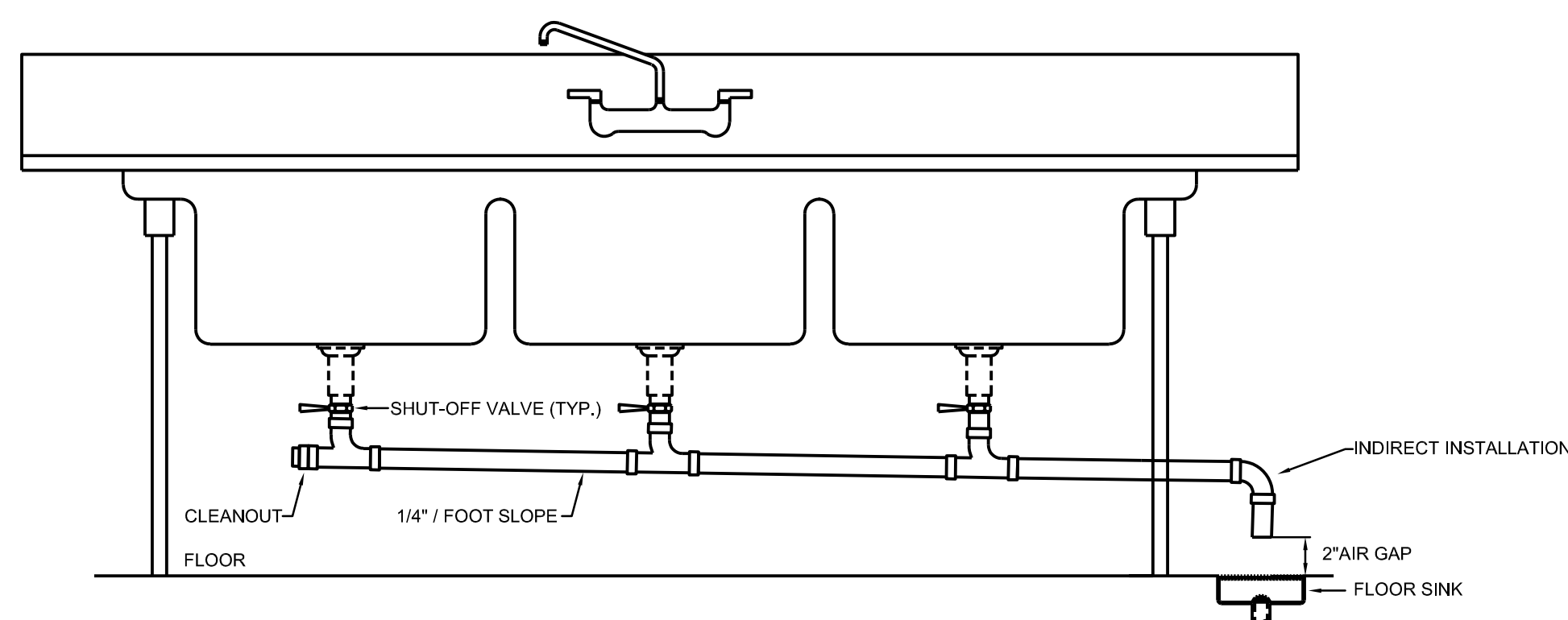
4 RECTANGULAR-TO-RECTANGULAR DUCT TAKEOFF DETAIL
NO SCALE



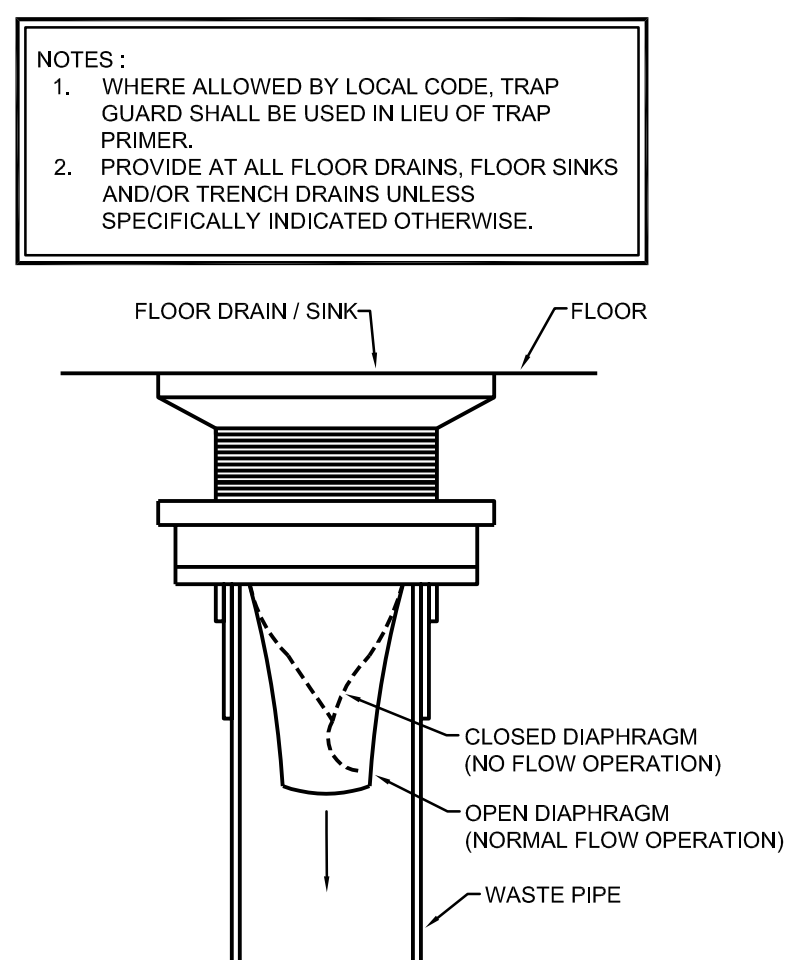
5 RECTANGULAR-TO-ROUND DUCT TAKEOFF DETAIL
NO SCALE



6 INDOOR UNIT DETAIL - 4-WAY CASSETTE
NO SCALE



7 CONTINUOUS DRAIN FITTING DETAIL
NO SCALE



8 TRAP GUARD DETAIL
NO SCALE

MECHANICAL DETAILS

Farmers Alliance Mutual Insurance
1122 North Main
McPherson, Kansas 67460

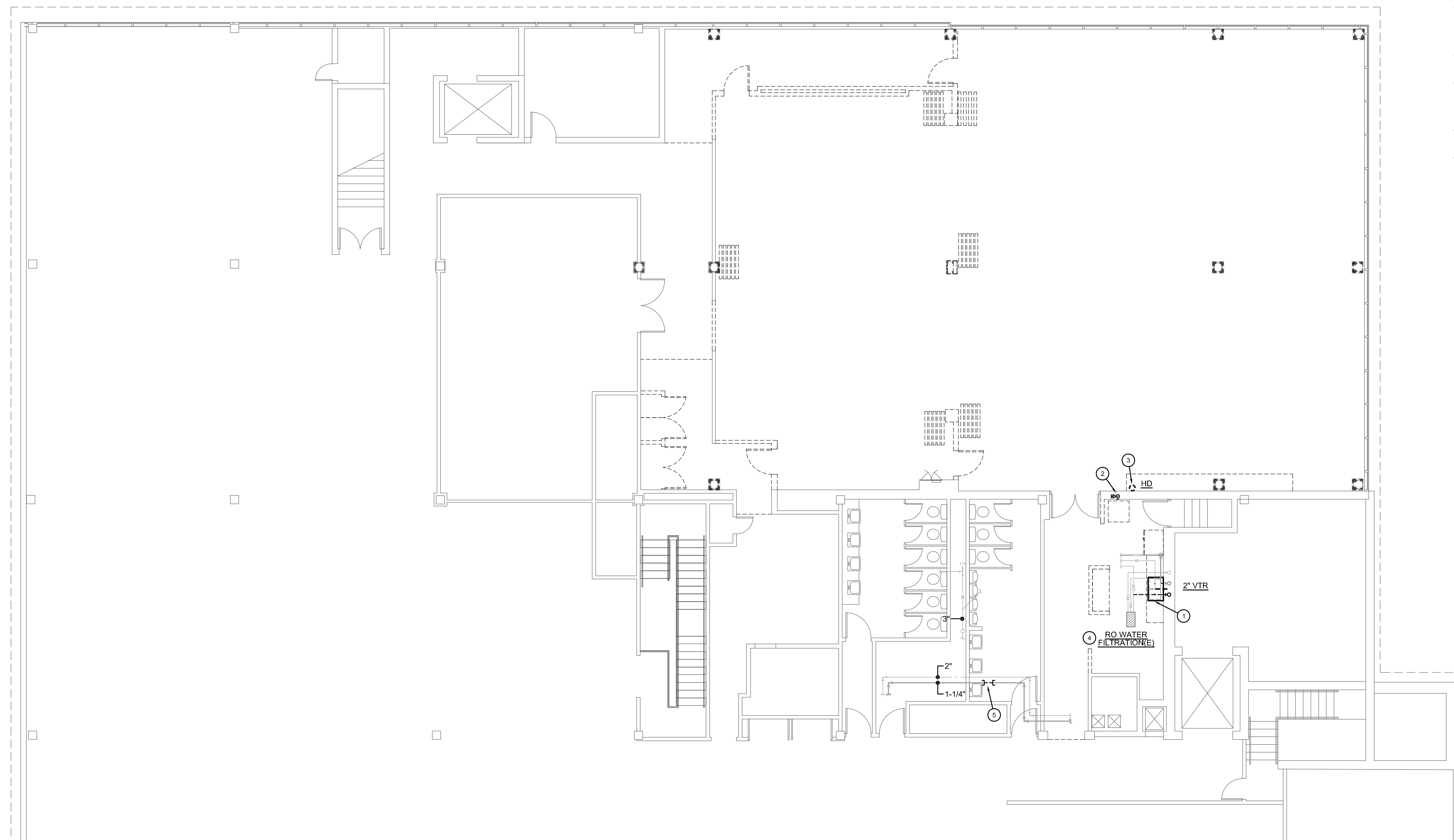
Contract Date	
Rev No. 1	
Rev No. 2	
Rev No. 3	
Rev No. 4	
Rev No. 5	
Rev No. 6	
Project Number:	22.31
DWG File	
Designed By:	CRS
Drawn By:	KGB
Approved By:	plan4
Date:	03/25/24



INNOVATIVE GROUPS
801 E. DOUGLAS
2ND FLOOR
WICHITA, KS 67202
INNOVATIVEGROUPS.COM
11 x 17 = 1/2 scale

SHEET NUMBER
MP201

Architect hereby expressly reserves its common law copyright and other property rights in these plans. These plans and drawings are not to be reproduced, changed, copied or assigned to any third party, in any form or manner whatsoever without first obtaining the express written permission of Plan4 Architecture Design.



PLAN NOTES:

- ① REMOVE PLUMBING FIXTURE. DEMO AND CAP HW / CW / RO H2O PIPE / WASTE PIPING UNDER FLOOR IN OLD STAIRWELL AND PREP FOR NEW WORK. VENT PIPING TO BE CAPPED ABOVE CEILING AND PREP FOR RECONNECTION.
- ② DEMO AND CAP CW PIPING SERVING ICE MAKER & BEVERAGE DISPENSERS BACK TO MAIN IN BASEMENT.
- ③ REMOVE DRAIN PIPING SERVING ICE MAKER & BEVERAGE DISPENSERS IN THEIR ENTIRETY. REMOVE HUB DRAIN & PIPING BACK TO MAIN IN BASEMENT AND PREP FOR NEW DRAIN BOX.
- ④ RO WATER FILTRATION SYSTEM AND PIPING IS BELOW FLOOR IN OLD STAIRWELL.
- ⑤ REMOVE 1-1/4" HW PIPING THIS AREA AND CAP. PREP CONNECTION FOR NEW WORK REQUIREMENTS INDICATED ON SHEET P101.

A PLUMBING DEMO PLAN
 SCALE - 1/8" = 1'-0"
 NORTH

PLUMBING DEMO PLAN

Farmers Alliance Mutual Insurance
 1122 North Main
 McPherson, Kansas 67460



Contract Date	
Rev No. 1	
Rev No. 2	
Rev No. 3	
Rev No. 4	
Rev No. 5	
Rev No. 6	
Project Number:	22.31
DWG File	
Designed By:	CRS
Drawn By:	KGB
Approved By:	plan4
Date:	03/25/24



801 E. DOUGLAS
 2ND FLOOR
 WICHITA, KS 67202
 INNOVATIVEGROUPS.COM

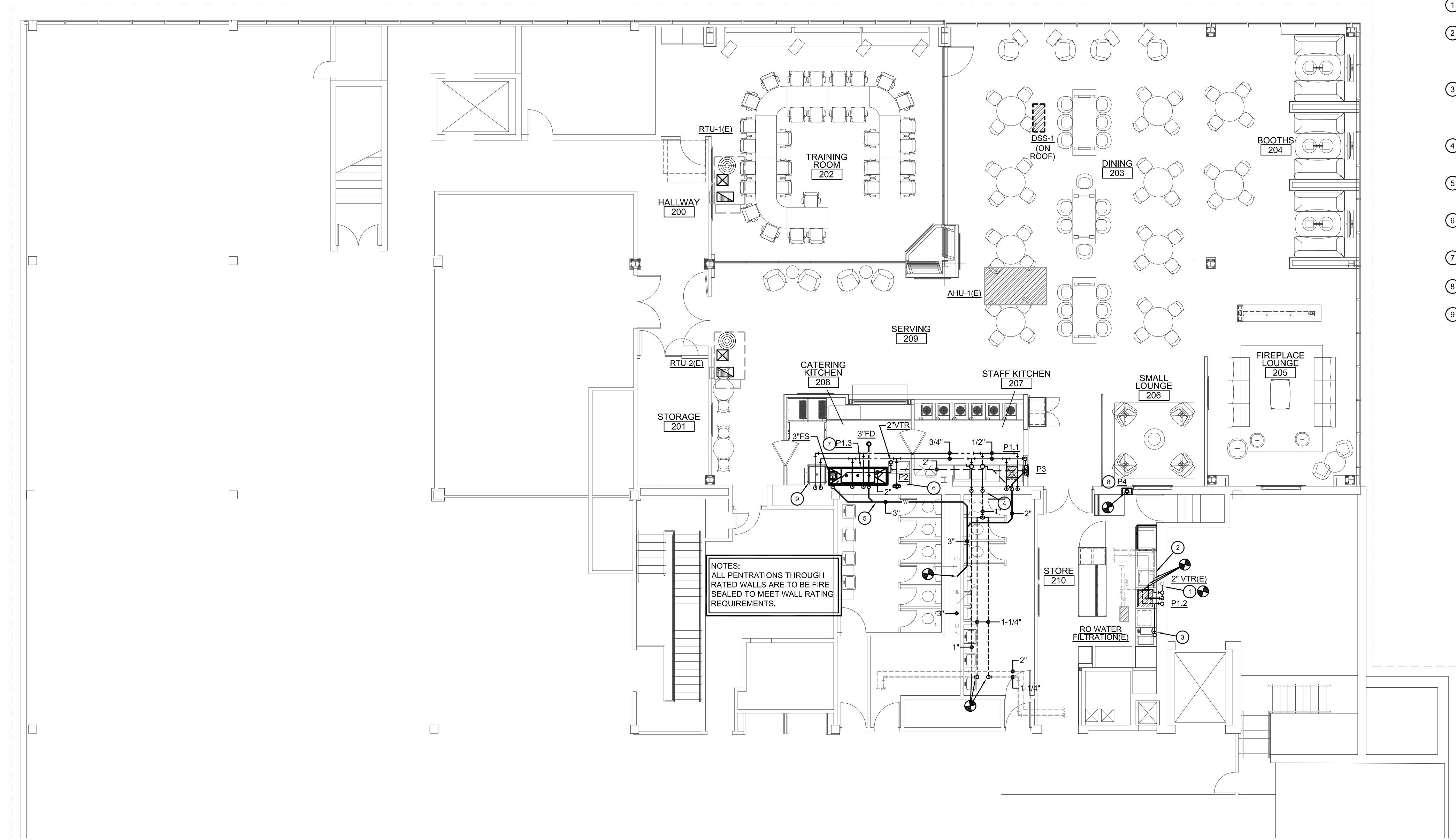
INNOVATIVE GROUPS

11 x 17 = 1/2 scale

SHEET NUMBER

PD101

Architect hereby expressly reserves its common law copyright and other property rights in these plans. These plans and drawings are not to be reproduced, changed, copied or assigned to any third party, in any form or manner whatsoever without first obtaining the express written permission of Plan4 Architecture Design.



PLAN NOTES:

- 1 EXTEND VENT PIPING FROM SINK TO EXISTING VTR RETAINED DURING DEMOLITION.
- 2 ROUTE 3/8" RO WATER PIPING / 3/4" DRAIN PIPING THROUGH HOLE IN COUNTER TOP TO CONNECT TO ICE/WATER MACHINE AND 1/4" RO WATER PIPING TO CAPPUCCINO MACHINE. DRAIN PIPING SHALL CONNECT TO SIOUX CHIEF TAILPIECE FITTING UPSTREAM OF SINK TRAP THIS AREA.
- 3 EXTEND 1/2" CW PIPING ALONG BACK WALL OF CABINET SPACE UP TO COFFEE / TEA MACHINES THIS AREA. INSTALL INLINE FILTER (PROVIDED BY OWNER) PRIOR TO CONNECTION. INSTALL AND CONNECT PER MFGR REQUIREMENTS.
- 4 ROUTE 1" CW / HW PIPING DOWN IN WALL TO BASEMENT THIS AREA. EXTEND PIPING TO EXISTING MAINS AS INDICATED.
- 5 ROUTE WASTE PIPING IN BASEMENT WHILE AVOID EXISTING UTILITIES / PIPING / DUCT. FIELD-VERIFY EXACT ROUTING AND CONNECTION REQUIREMENTS PRIOR TO INSTALLATION.
- 6 ROUTE ICE MAKER DRAIN PIPING TIGHT ALONG WALL TO FLOOR SINK AND TERMINATE WITH 2" AIR GAP. CONNECT CW PIPING TO WATER FILTER WITH ICE MAKER.
- 7 REFER TO CONTINUOUS DRAIN FITTING DETAIL FOR SINK DRAIN PIPING INSTALLATION REQUIREMENTS.
- 8 EXTEND W PIPING RETAINED DURING DEMOLITION TO DRAIN BOX IN WALL AT 72" AFF.
- 9 ROUTE DISHWASHER WASTE PIPING TO FLOOR SINK AND TERMINATE WITH 2" AIR GAP.

A PLUMBING PLAN
 SCALE - 1/8" = 1'-0"
 NORTH

PLUMBING PLAN

Farmers Alliance Mutual Insurance
 1122 North Main
 McPherson, Kansas 67460



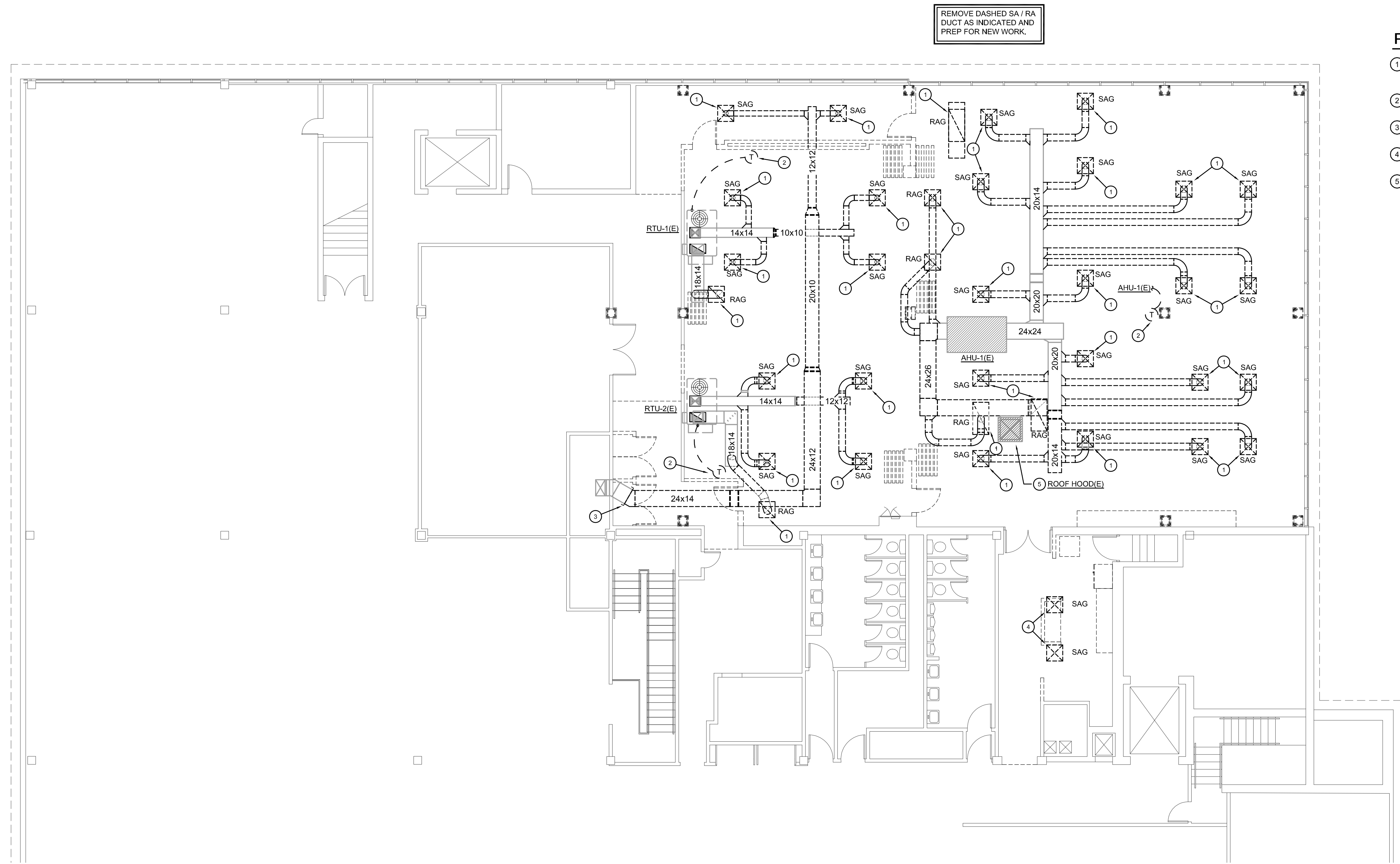
Contract Date	
Rev No. 1	
Rev No. 2	
Rev No. 3	
Rev No. 4	
Rev No. 5	
Rev No. 6	
Project Number:	22.31
DWG File	
Designed By:	CRS
Drawn By:	KGB
Approved By:	plan4
Date:	03/25/24



INNOVATIVE GROUPS
 801 E. DOUGLAS
 2ND FLOOR
 WICHITA, KS 67202
 INNOVATIVEGROUPS.COM
 11 x 17 = 1/2 scale

SHEET NUMBER
P101

Architect hereby expressly reserves its common law copyright and other property rights in these plans. These plans and drawings are not to be reproduced, changed, copied or assigned to any third party, in any form or manner whatsoever without first obtaining the express written permission of Plan4 Architecture Design.



PLAN NOTES:

- ① REMOVE SAG / RAG AND ASSOCIATED BRANCH DUCTWORK BACK TO MAIN AS INDICATED. CAP OPENING WITH 1" INSULATED SHEET METAL COVER AND SEAL AIRTIGHT.
- ② THERMOSTAT TO BE RELOCATED. REFER TO SHEET M101 FOR NEW LOCATION.
- ③ REMOVE SA DUCTWORK BACK TO WALL AND CAP WITH 1" INSULATED SHEET METAL CAP & SEAL AIRTIGHT.
- ④ DEMO SAG ONLY AND ASSOCIATED BRANCH DUCTWORK TO REMAIN.
- ⑤ MC TO PATCH OA DUCT OPENING AND PREP FOR NEW WORK.

REMOVE DASHED SA / RA DUCT AS INDICATED AND PREP FOR NEW WORK.

A HVAC DEMO PLAN
 SCALE - 1/8" = 1'-0"
 NORTH

HVAC DEMO PLAN

Farmers Alliance Mutual Insurance
 1122 North Main
 McPherson, Kansas 67460

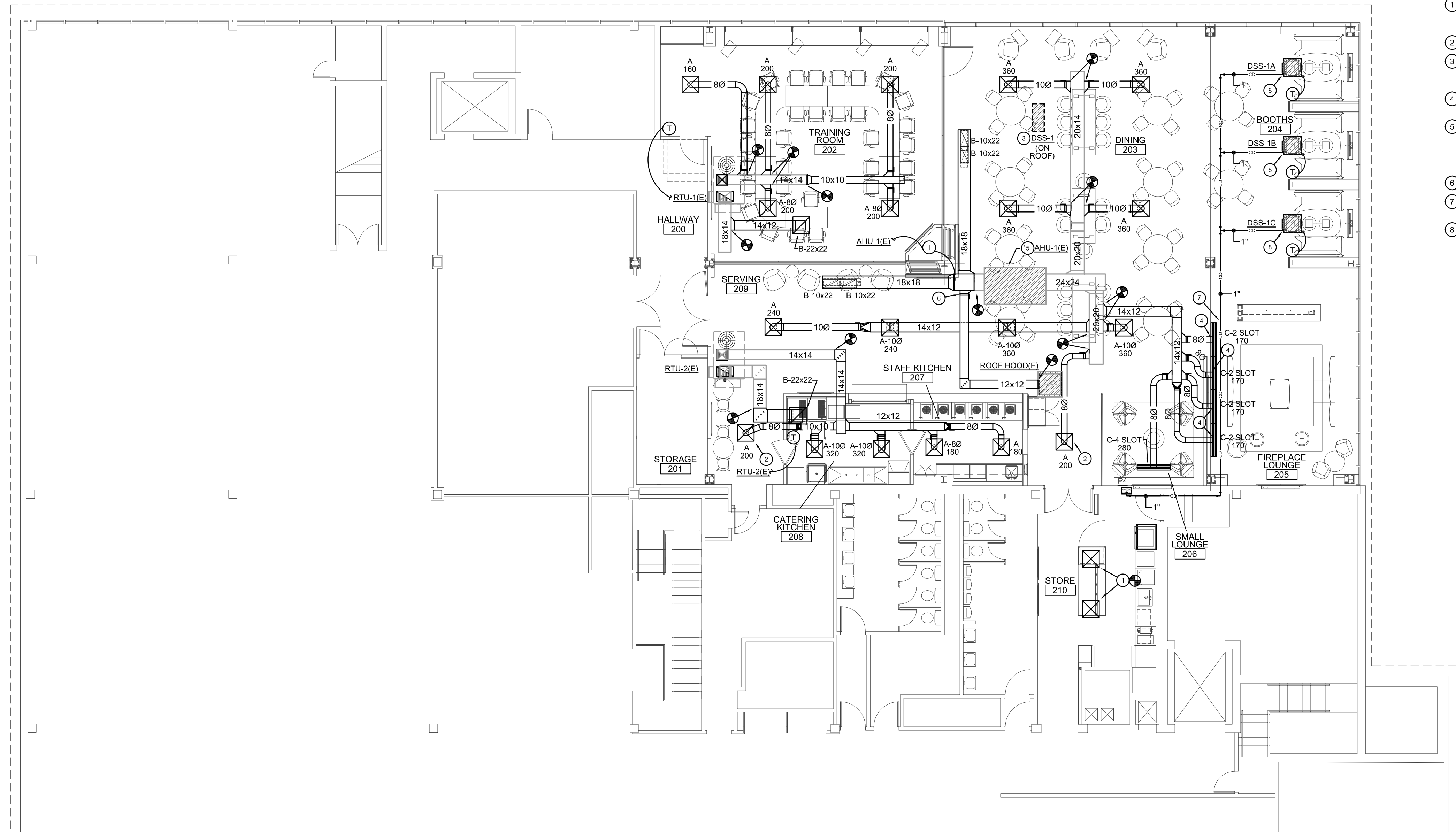
Contract Date	
Rev No. 1	
Rev No. 2	
Rev No. 3	
Rev No. 4	
Rev No. 5	
Rev No. 6	
Project Number:	22.31
DWG File	
Designed By:	CRS
Drawn By:	KGB
Approved By:	plan4
Date:	03/25/24



INNOVATIVE GROUPS
 801 E. DOUGLAS
 2ND FLOOR
 WICHITA, KS 67202
 INNOVATIVEGROUPS.COM
 11 x 17 = 1/2 scale

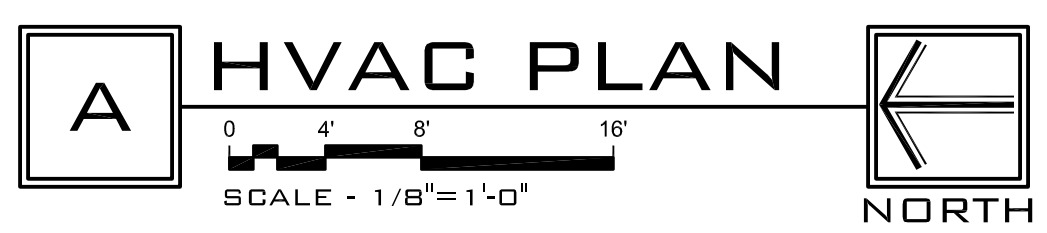
SHEET NUMBER
MD101

Architect hereby expressly reserves its common law copyright and other property rights in these plans. These plans and drawings are not to be reproduced, changed, copied or assigned to any third party, in any form or manner whatsoever without first obtaining the express written permission of Plan4 Architecture Design.



PLAN NOTES:

- 1 PROVIDE TDC-3 GRILLE. EXTEND EXISTING SA DUCTWORK TO GRILLE LOCATIONS INDICATED. CONTRACTOR SHALL FIELD VERIFY NECK SIZE PRIOR TO INSTALLATION.
- 2 PROVIDE PLASTER FRAME FOR SUPPLY GRILLE THIS AREA.
- 3 ROUTE REFRIGERATION PIPING DOWN THROUGH ROOF TO ASSOCIATED INDOOR UNITS. INSTALL PER MANUFACTURER RECOMMENDATIONS.
- 4 ROUTE SA DUCTWORK THROUGH STRUCTURE THIS AREA. FIELD-VERIFY EXACT LOCATION.
- 5 CONTRACTOR SHALL BALANCE AIR HANDLER TO CFM'S INDICATED ON PLAN. ADJUST HYDRONIC BALANCING VALVE TO ALLOW FOR 55° F LAT DURING COOLING AND 95° F LAT DURING HEATING. ALLOW FOR BELT, SHEAVES, ETC. AS REQUIRED.
- 6 BALANCE OUTSIDE AIR TO 640 CFM.
- 7 COORDINATE ROUTING OF CONDENSATE PIPING WITH PLENUM BOXES.
- 8 ROUTE CONDENSATE PIPING UP TIGHT TO SIMPLE SAVER INSULATION FROM CASSETTE AND ROUTE CONDENSATE PIPING AS INDICATED.



HVAC PLAN

Farmers Alliance Mutual Insurance
1122 North Main
McPherson, Kansas 67460

PLAN4
ARCHITECTURE DESIGN www.plan4arch.com
303 north main st., mcpherson kansas 67241-4353

Contract Date	
Rev No. 1	
Rev No. 2	
Rev No. 3	
Rev No. 4	
Rev No. 5	
Rev No. 6	
Project Number:	22.31
DWG File	
Designed By:	CRS
Drawn By:	KGB
Approved By:	plan4
Date:	03/25/24



INNOVATIVE GROUPS
801 E. DOUGLAS
2ND FLOOR
WICHITA, KS 67202
INNOVATIVEGROUPS.COM

11 x 17 = 1/2 scale

SHEET NUMBER

M101

Architect hereby expressly reserves its common law copyright and other property rights in these plans. These plans and drawings are not to be reproduced, changed, copied or assigned to any third party, in any form or manner whatsoever without first obtaining the express written permission of Plan4 Architecture Design.

ELECTRICAL NOTES

- WIRING SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), AND / OR APPLICABLE LOCAL, STATE, AND UTILITY COMPANY RULES, LAWS, AND ORDINANCES.
- SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR INSTALLATION OF ELECTRICAL WORK. VERIFY ALL OUTLET LOCATIONS ON JOB PRIOR TO ROUGH-IN. COORDINATE ALL OUTLET BOX LOCATIONS WITH MASONRY, IF ANY, TO MINIMIZE CUTTING AND PATCHING OF BOTH BRICK AND BLOCK.
- THE ELECTRICAL CONTRACTOR SHALL COOPERATE WITH OTHER CONTRACTORS, INSTALL EQUIPMENT IN PROPER SEQUENCE AS NOT TO INTERFERE WITH THE PROGRESS OF OTHER CONTRACTORS, AND GIVE GENERAL CONTRACTOR ALL NECESSARY INFORMATION FOR MAKING PROPER PROVISION FOR INSTALLATION OF HIS EQUIPMENT.
- ALL MATERIALS SHALL BE NEW, UNLESS OTHERWISE NOTED ON DRAWINGS. CARRY UNDERWRITERS LABEL OR BE 'LISTED' BY THAT GROUP AND BE FULLY EQUAL TO MAKES SPECIFIED.
- ON RATED WALLS AND SEPARATION WALLS, ALL ELECTRICAL OUTLETS AND SWITCH BOXES ARE REQUIRED TO MEET I.B.C. 711 THRU 714.
- INDIVIDUAL HOME-RUNS ARE SHOWN FOR CLARITY ONLY. E.C. CAN COMBINE THEN TOGETHER PER LATEST "NEC" ALL WIRE IS No. 12 THIN COPPER UNLESS OTHERWISE NOTED. ANY 120 VOLT OR 208 VOLT HOME-RUN WITH A DISTANCE LONGER THAN 80' FROM THE PANEL TO THE FIRST DEVICE, OR 277 VOLT OR 480 VOLT HOME-RUN WITH A DISTANCE LONGER THAN 160' FROM THE PANEL, SHALL BE UPSIZED TO ALLOW FOR VOLTAGE DROP. SEE DRAWINGS AND SCHEDULES.
- USE ONLY INSULATED COPPER CONDUCTORS IN CONDUIT WITH A MINIMUM SIZE TO BE 1/2" TRADE SIZE, OR "MC" CABLE IF APPROVED BY LOCAL CODE. USE FLEXIBLE CONDUIT FOR CONNECTIONS TO MOTORS, TRANSFORMERS, AND SIMILAR EQUIPMENT. ALL WIRING SHALL BE CONCEALED, FLUSH OUTLETS, EXCEPT AS NOTED ON DRAWINGS. WIRE INSULATION SHALL BE COLOR COATED AS FOLLOWS OR PER LOCAL ORDINANCES: 120/208V, 3Ø - A-BLACK, B-RED, C-BLUE, NEUTRAL-WHITE, G-GREEN, 277/480V, 3Ø - A-BROWN, B-ORANGE, C-BLUE, NEUTRAL-GRAY, G-GREEN.
- BRANCH CIRCUIT PANELBOARDS SHALL BE AS NOTED ON DRAWINGS WITH THERMAL MAGNETIC BREAKERS. BREAKERS SHALL HAVE INDIVIDUAL PLASTIC CASES, SIZED AS SCHEDULED. TWO AND THREE POLE BREAKERS SHALL BE COMMON TRIP (SINGLE POLE UNITS WITH COMMON TRIP ARE NOT ACCEPTED). ALL BREAKERS ARE TO BE BOLT-IN. FURNISH AND INSTALL A NEATLY TYPED DIRECTORY CARD, LOCATED ON THE INSIDE OF THE HINGED DOOR. REASSIGN CIRCUITS TO PROPERLY BALANCE THE LOADS ON THE PHASE IF THE FINAL CONNECTIONS AND TEST SHOW IT TO BE ADVISABLE.
- ALL PENETRATIONS IN THE RATED WALLS, FLOOR / CEILING ASSEMBLY, AND THE ROOF / CEILING ASSEMBLY SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAME AND HOT GASES. THE SEALER SHALL HAVE A T-RATING AND F-RATING OF NOT LESS THAN THAT OF THE WALL, FLOOR, OR CEILING BEING PENETRATED. THE ABOVE REQUIREMENTS SHALL MEET I.B.C. 711 THRU 714. A MAXIMUM OF TWO OUTLET BOXES PER STUD SPACE IN THE RATED WALLS. THE MAXIMUM SIZE FOR STEEL OUTLET BOXES ON 100 SQUARE INCHES FOR ANY 100 SQUARE FEET OF WALL AREA. BOXES ON OPPOSITE SIDES OF FIRE WALLS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24 INCHES, I.B.C. 711 & 714.
- ALL CONDUIT AND OUTLET BOXES (ELECTRICAL, TELEPHONE, COMPUTER, DATA, ECT.) LOCATED IN THE RATED WALLS, FLOOR, CEILING, OR ROOF SHALL BE CONSTRUCTED OF A NON-COMBUSTIBLE MATERIAL TO MEET I.B.C.
- ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN A NEAT WORKMANLIKE MANNER. UNSIGHTLY INSTALLATIONS SHALL BE REMOVED AND REWORKED AT NO ADDITIONAL EXPENSE TO THE OWNER.
- WIRING OF MECHANICAL EQUIPMENT FURNISHED BY OTHERS: FURNISH AND INSTALL ALL POWER WIRING, AND ALL CONTROL WIRING AND INTERLOCK WIRING OF ALL UNITS, PUMPS, FANS, WATER HEATERS, ETC. CONNECT PER MANUFACTURERS WIRING DIAGRAMS. FURNISH AND INSTALL ALL NECESSARY DISCONNECT DEVICES AS REQUIRED. CONTRACTOR TO VERIFY THE ACTUAL WIRING SIZING AMPS FOR ALL EQUIPMENT FROM THE EQUIPMENT NAMEPLATE. ELECTRICAL INSTALLATION SHALL BE BASED ON ACTUAL REQUIRED AMPERAGES, WHICH MAY VARY SOMEWHAT FROM THE WIRE AND EQUIPMENT SIZES SHOWN ON THE DRAWINGS. PROPERLY SIZED ELECTRICAL WIRING AND EQUIPMENT SHALL BE FURNISHED WITHOUT ANY ADDITIONAL COST TO THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ALL CHANGES TO BE MADE IN THE ELECTRICAL INSTALLATION DUE TO EQUIPMENT VARIANCES SO THAT THE IMPACT ON FEEDERS, PANELS, FUSE AND BREAKER SIZES CAN BE CHECKED PRIOR TO INSTALLATION.
- WIRING OF THERMOSTATS AND TEMPERATURE CONTROLS: FURNISH AND INSTALL ALL POWER WIRING, AND ALL CONTROL AND INTERLOCK WIRING OF ALL THERMOSTATS AND TEMPERATURE CONTROL DEVICES INCLUDING NIGHTSTATS, TIME SWITCHES, OVERRIDE TIMERS, ETC. SEE MECHANICAL DRAWINGS FOR LOCATIONS AND TEMPERATURE CONTROL DIAGRAMS.
- THE DRAWINGS SHOWING THE LAYOUT OF THE WORK INDICATE THE APPROXIMATE LOCATIONS OF OUTLETS, APPARATUS, AND EQUIPMENT. THE DRAWINGS ARE SCHEMATIC ONLY, AND ARE NOT INTENDED TO SHOW EXACT ROUTING OF CONDUIT, ETC. THE FINAL DETERMINATION AS TO THE ROUTING SHALL BE GOVERNED BY THE STRUCTURAL CONDITIONS AND OTHER OBSTRUCTIONS. THEY SHALL NOT BE CONSTRUED TO MEAN THE DESIGN OF THE SYSTEM MAY BE CHANGED. IT MERELY REFERS TO THE EXACT RUN OF A RACEWAY BETWEEN GIVEN POINTS. THE CONTRACTOR SHALL CONSULT ALL CONTRACT DRAWINGS WHICH MAY AFFECT THE LOCATION OF ANY OUTLET, APPARATUS, OR EQUIPMENT TO AVOID POSSIBLE INTERFERENCE AND PERMIT FULL COORDINATION OF ALL WORK. THE RIGHT TO MAKE ANY REASONABLE CHANGE IN THE LOCATION OF OUTLETS, APPARATUS, AND EQUIPMENT UP TO THE TIME OF ROUGH-IN IS RESERVED BY THE ARCHITECT WITHOUT INVOLVING ANY ADDITIONAL EXPENSE TO THE OWNER.
- THE TELEPHONE / DATA SYSTEM SHALL CONSIST OF A CONDUIT SYSTEM ONLY, 1" MINIMUM, IN WALLS FROM THE OUTLET BOX STUBBED INTO THE CEILING CAVITY. ALL COVER PLATES, CONNECTORS, TELEPHONE / DATA WIRES, AND FINAL TERMINATIONS ARE BY OTHERS. COORDINATE ACTUAL AMOUNT OF OUTLET AND LOCATIONS WITH THE OWNER PRIOR TO ROUGH-IN.
- IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR PROVIDE THE UTILITY CO. WITH THE ELECTRICAL LOADS AND FILL OUT ALL APPROPRIATE PAPERWORK AND FORMS.

ELECTRICAL DEVICE SCHEDULE

SYM	DESCRIPTION	MFGR. & CAT No.	RATING	MOUNTING	REMARKS
Ⓢ	SINGLE POLE SWITCH	PASS & SEYMOUR PS20AC1-I	20A 125 / 277V	48" A.F.F. TO TOP	
ⓈⓈ	THREE WAY SWITCH	PASS & SEYMOUR PS20AC3-I	20A 125 / 277V	48" A.F.F. TO TOP	
ⓈⓈⓈ	DIMMER SWITCH	LUTRON DVSTV	8A 125 / 277V	48" A.F.F. TO TOP	
Ⓢ	DUPLEX RECEPT.	PASS & SEYMOUR TR5362-I	20A 125V	16" A.F.F. TO BOTTOM	
Ⓢ	G.F.I. DUPLEX RECEPT.	PASS & SEYMOUR 2094-TRI	20A 125V	16" A.F.F. TO BOTTOM	W/ TAYMAC # ML500G COVER PLATE
Ⓢ	SINGLE GFCI RECEPTACLE	PASS & SEYMOUR 2097TRSLGW	20A 125V	16" A.F.F. TO BOTTOM	
Ⓢ	RECEPT. / USB OUTLET	PASS & SEYMOUR TR5362USB-I	20A 125V	16" A.F.F. TO BOTTOM	
Ⓢ	NEMA-1 JUNCTION BOX	STEELCITY 4"x4" BOX		AS REQUIRED	
Ⓢ	T.V. OUTLET	STEELCITY 2"x4" BOX		16" A.F.F. TO BOTTOM	WITH 1" C. TO ABOVE CLG.
Ⓢ	TELEPHONE / DATA OUTLET	STEELCITY 2"x4" BOX		16" A.F.F. TO BOTTOM	WITH 1" C. TO ABOVE CLG.
Ⓢ	THERMOSTAT	FURN. BY M.C.; INST. & CONN. BY E.C.		48" A.F.F. TO TOP	
Ⓢ	MOTOR	FURN. & INST. BY M.C.; CONN. BY E.C.		AS REQUIRED	
a,b,c	DENOTES SWITCH SCHEME				
1,3,5	DENOTES CIRCUIT NUMBERS				
Ⓢ	3/4" CONDUIT WITH PULLWIRE			UNDER FLOOR	
Ⓢ	BRANCH CIRCUIT	WITH NUMBER OF WIRES		UNDER FLOOR	
Ⓢ	BRANCH CIRCUIT	WITH NUMBER OF WIRES		ABOVE FLOOR	
Ⓢ	HOME RUN	WITH NUMBER OF WIRES		ABOVE FLOOR	

NOTES:

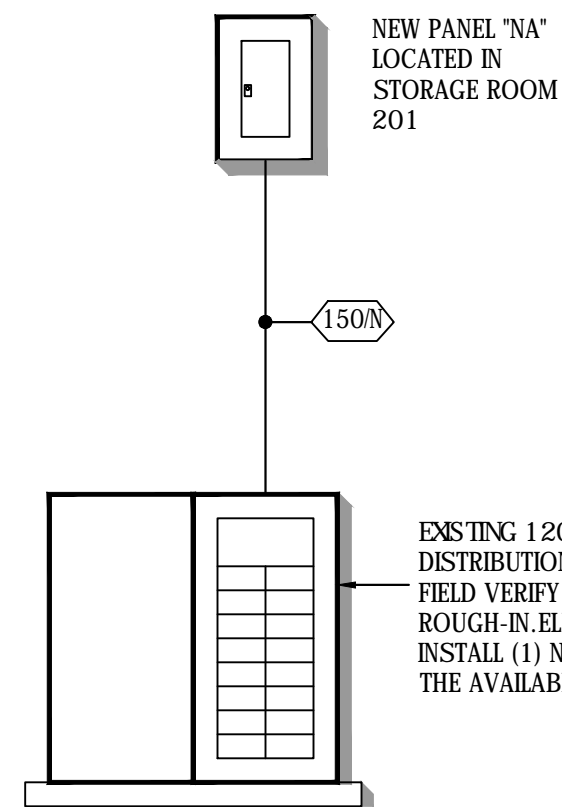
- APPROVED MANUFACTURERS OTHERS THAN SPECIFIED, PASS & SEYMOUR, G.E., LEVITON, SQUARE-D, CUTLER HAMMER, SIEMENS.
- ALL 125V NON-LOCKING RECEPTACLES MOUNTED BELOW 5'-6" A.F.F. SHALL BE TAMPER RESISTANT TYPE PER N.E.C. 406-12.
- REGARDLESS OF CONTROL REQUIREMENTS - ALL FEEDERS FROM SWITCH TO FIRST LIGHT FIXTURE SHALL INCLUDE LOW-VOLTAGE CONTROL WIRES.

LIGHTING FIXTURE SCHEDULE

SYM	DESCRIPTION	MFGR.	CAT No.	LAMP		MOUNTING	NOTES
				TYPE	CODE		
A	BOOTH AREA PENDANT	TECH LIGHTING	700 TD Y B - LED927	LED	493 lm (100W)	PENDANT / CEILING	-
B	8' LINEAR PENDANT	ZANEEN	IDAHO 75 LE1D75-SUS-SYS 8' & 10' FIXTURES	LED	4566 lm (52.5W)	PENDANT / CEILING	4
C	36" LED ROUND PENDANT	SOLERA	CIRC-II-36-36W-6360-4000K-UNV-3AC48CMB-RG-DM	LED	6336 lm (36W)	PENDANT / CEILING	5
D	6" LED RECESS DOWNLIGHT	JUNO	6RLD G4 10LM 30K 90CRI 120 FRPC WWH	LED	1000 lm (12W)	RECESS CEILING	4
F	4" LED RECESS MINI CAN	JUNO	4RLD G4 09LM 30K 90CRI 120 FRPC WWH	LED	600 lm (8W)	RECESS CEILING	-
Ⓢ	EXIT LIGHT	DUAL-LITE	EVEURWE (WITH BATTERY BACK-UP)	LED	INCLUDED	CEILING/VARIES	2
Ⓢ	EMERGENCY LIGHT	DUAL-LITE	EV4D (WITH BATTERY BACK-UP)	LED	INCLUDED	7'-6" A.F.F.	2
Ⓢ	EXIT / EMERGENCY LT. COMBO	DUAL-LITE	EVCURWD4 (WITH BATTERY BACK-UP)	LED	INCLUDED	7'-6" A.F.F.	2
EM	EXTERIOR EMERGENCY LIGHT	DUAL-LITE	PZ G-HTR (WITH BATTERY BACK-UP)	LED	INCLUDED	SURFACE OVER DOOR	2

NOTES:

- GENERAL CONTRACTOR SHALL PROVIDE FIREPROOFING AROUND ANY RECESSED LIGHT FIXTURE INSTALLED IN A FIRE RATED CEILING PER U.L. REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL COORDINATE.
- EXIT AND EMERGENCY LIGHTS TO BE CONNECTED TO THE CIRCUIT AS NOTED, UN-SWITCHED.
- MANUFACTURERS LISTED IN THIS SCHEDULE OR BY WRITTEN ADDENDUM FROM THE ARCHITECT WILL BE THE ONLY APPROVED MANUFACTURERS TO BID THE LIGHTING FIXTURES IN THIS SCHEDULE. CONTRACTORS AND SUPPLIERS USING PRICING OR PHOTOMETRICS FROM MANUFACTURERS NOT LISTED ON SCHEDULE OR BY WRITTEN ADDENDUM DO SO AT THEIR OWN RISK.
- PROVIDE BATTERY BACK-UP @ LOCATIONS SHOWN ON PLAN (EM).
- VERIFY WITH ARCHITECT FOR FINAL HEIGHT PLACEMENT.



A ONE-LINE DIAGRAM

NOT TO SCALE

SPECIAL OUTLET SCHEDULE

SYMBOL	DESCRIPTION
Ⓢ	RECESSED TV BOX WITH (2) DUPLEX RECEPTACLE, (2) CAT 6 DATA AND (1) COAX CABLE CONNECTOR EQUAL TO ARLINGTON RECESS STEEL TV BOX # TVBS07 3 GANG. PROVIDE EXTENDERS AND SPLITTERS AS REQUIRED. COORDINATE MOUNTING LOCATION WITH ARCHITECTS/OWNER PRIOR TO ROUGH-IN.

BREAKERS TO HAVE MIN. 10,000 AIC SERIES RATED TYPE SQ-D NQ		PANEL "NA"		SURFACE MOUNTED NEMA-1 ENCLOSURE 225 AMP MAIN L.O. RATED AT 150 AMPS	
FEEDER REQ'TS	CT No.	DESCRIPTION	KW	DESCRIPTION	FEEDER REQ'TS
20/1	1	EQUIP. (1)	1.08	EQUIP. (5)	2 20/1
20/1	3	EQUIP. (3)	1.56	EQUIP. (4)	4 20/1
20/1	5	EQUIP. (3)	1.56	EQUIP. (7)	6 20/1
20/1	7	EQUIP. (3)	1.56	EQUIP. (11)	8 20/1
20/1	9	EQUIP. (3)	1.56	EQUIP. (11)	10 20/1
20/1	11	EQUIP. (13)	1.56	EQUIP. (11)	12 20/1
20/1	13	EQUIP. (14)	1.56	EQUIP. (10)	14 60/3
20/1	15	RECEPTS.	0.8		16
20/1	17	RECEPTS.	1.4		18
20/1	19	RECEPTS.	1.2	1.0 ELECT. FIREPLACE	20 20/1
20/1	21	RECEPTS.	1.2	1.0 ELECT. FIREPLACE	22 20/1
20/1	23	BOOTH RECEPTS.	0.8	DSS-1	24 40/2
20/1	25	BOOTH RECEPTS.	0.8		26
20/1	27	BOOTH RECEPTS.	0.8	1.2 POWER BLINDS	28 20/1
20/1	29	PAY KIOSK	0.3	1.2 POWER BLINDS	30 20/1
20/1	31	EQUIP. (12)	1.2	1.2 POWER BLINDS	32 20/1
20/1	33	EQUIP. (12)	1.2	1.2 POWER BLINDS	34 20/1
20/1	35	EQUIP. (15)	1.92	1.2 POWER BLINDS	36 20/1
20/1	37	RECEPT.	1.5	1.2 RECEPTS.	38 20/1
20/1	39	EQUIP.	1.92	-- SPACE	40 --
-	41	SPACE	--	-- SPACE	42 --
-	43	SPACE	--	-- SPACE	44 --
-	45	SPACE	--	-- SPACE	46 --
-	47	SPACE	--	-- SPACE	48 --
-	49	SPACE	--	-- SPACE	50 --
-	51	SPACE	--	-- SPACE	52 --
-	53	SPACE	--	-- SPACE	54 --

LOAD SUMMARY

LOAD	CONNECTED KW	FACTOR	DEMAND KW
LIGHTING	0	1.25	0
RECEPTACLES (1ST 10KVA)	8.7	1.00	8.7
RECEPTACLES (REMAINING)	0	0.50	0
LARGEST MOTOR	5.07	1.25	6.33
MOTORS	0	1.00	0
MISC. EQUIPMENT	37.79	0.65	24.56
TOTAL:	51.56		51.56

AMPS @ 120/208 VOLT, 3Ø, 4W 60 Hz 109.92 AMPS

- ALL 120 VOLT CIRCUITS TO HAVE SEPARATE POWER NEUTRAL AND GROUND WIRES AS CALLED FOR IN FEEDER SCHEDULE. SEE SHEET "E1.1"
- Ⓢ FEEDER UP-SIZED FOR VOLTAGE DROP
- Ⓢ GFCI TYPE CIRCUIT BREAKER
- Ⓢ ARC FAULT TYPE BREAKER
- Ⓢ BREAKER WITH SHUNT TRIP
- Ⓢ LOCK ON CIRCUIT BREAKER

IF ALLOWED BY LOCAL CODE AUTHORITY, E.C. TO USE (1) 54 CIRCUIT SINGLE SECTION PANELBOARD, IF NOT, PANEL SHALL BE (1) 60 CIRCUIT, 2-SECTION, PANEL WITH COMMON TRIM AND CABINETS. SECTION-1 TO BE 30 CIRCUITS WITH FEED THRU LUGS, SECTION-2 TO BE 30 CIRCUITS WITH TOP FEED LUGS

FEEDER SCHEDULE

FEEDER IDENT.	COPPER CONDUCTORS			GROUND SIZE	ISOLATED GRD. SIZE	CONDUIT SIZE
	SETS	QUANT. PER SET	SIZE			
20/1	1	2	#12 CU	#12 CU	-----	1/2"
40/2	1	2	#8 CU	#10 CU	-----	1"
60/2	1	2	#4 CU	#8 CU	-----	1 1/4"
150/N	1	4	#1/0 CU	#6 CU	-----	2"

FEEDER IDENT.	ALUMINUM CONDUCTORS			GROUND SIZE	ISOLATED GRD. SIZE	CONDUIT SIZE
	SETS	QUANT. PER SET	SIZE			
150/N	1	4	#3/0 AL	#4 AL	-----	2"

- IF APPROVED BY LOCAL CODE AUTHORITY, E.C. HAS THE OPTION TO USE ALUMINUM CONDUCTORS FOR ANY BRANCH FEEDER 100 AMPERES OR MORE, EXCEPT FOR ELEVATOR BRANCH FEEDERS WHICH ARE TO BE COPPER.
- ALUMINUM CONDUCTORS SHALL BE #1/2 (90°) COMPACT STRANDED CONDUCTORS.



Contract Date	
Rev No. 1	
Rev No. 2	
Rev No. 3	
Rev No. 4	
Rev No. 5	
Rev No. 6	
Project Number:	22.31
DWG File	
Designed By:	CRS
Drawn By:	JAW
Approved By:	plan4
Date:	03/25/2024



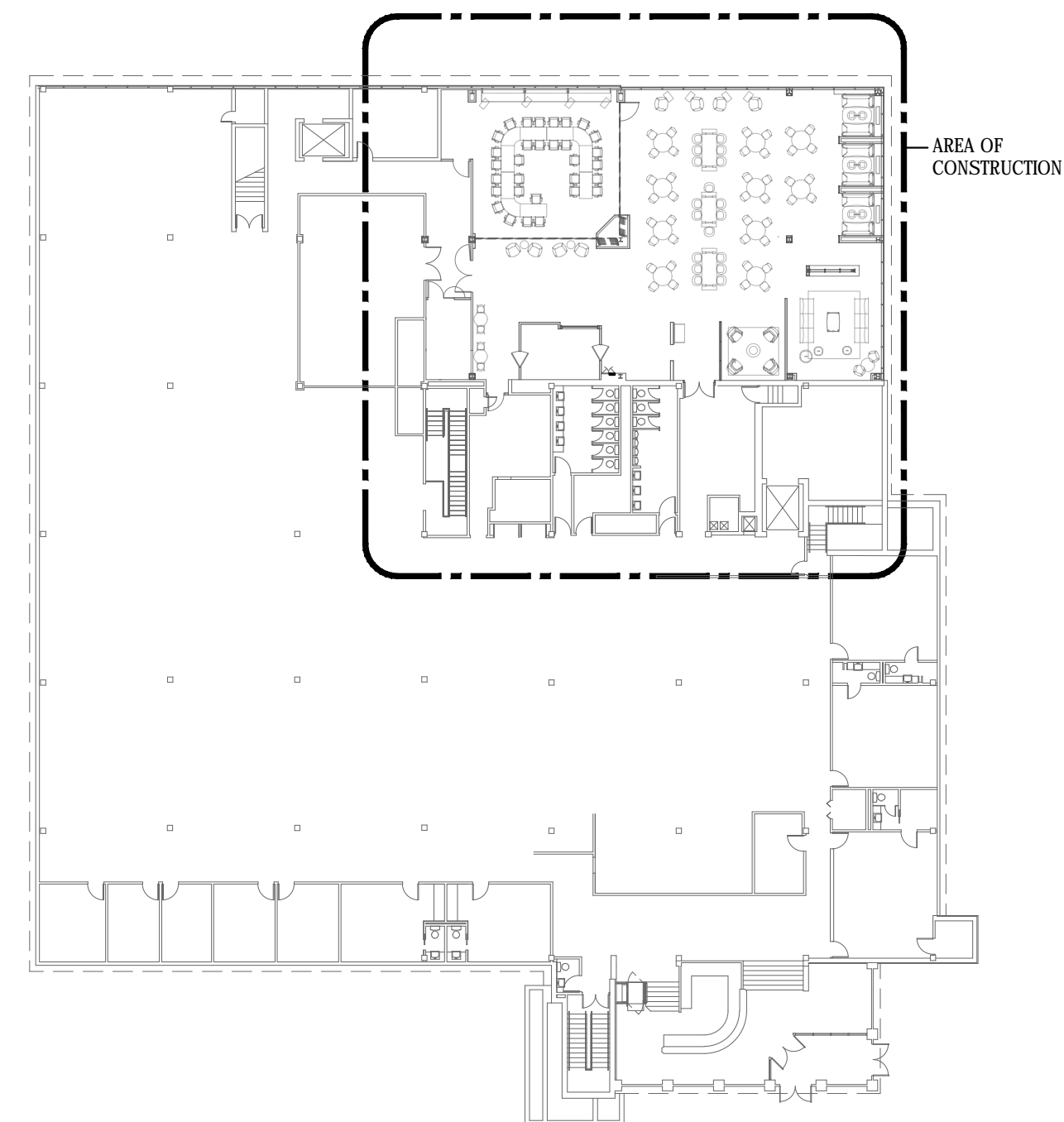
SHEET NUMBER

E101

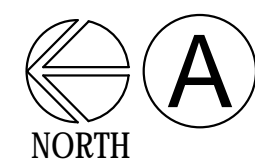
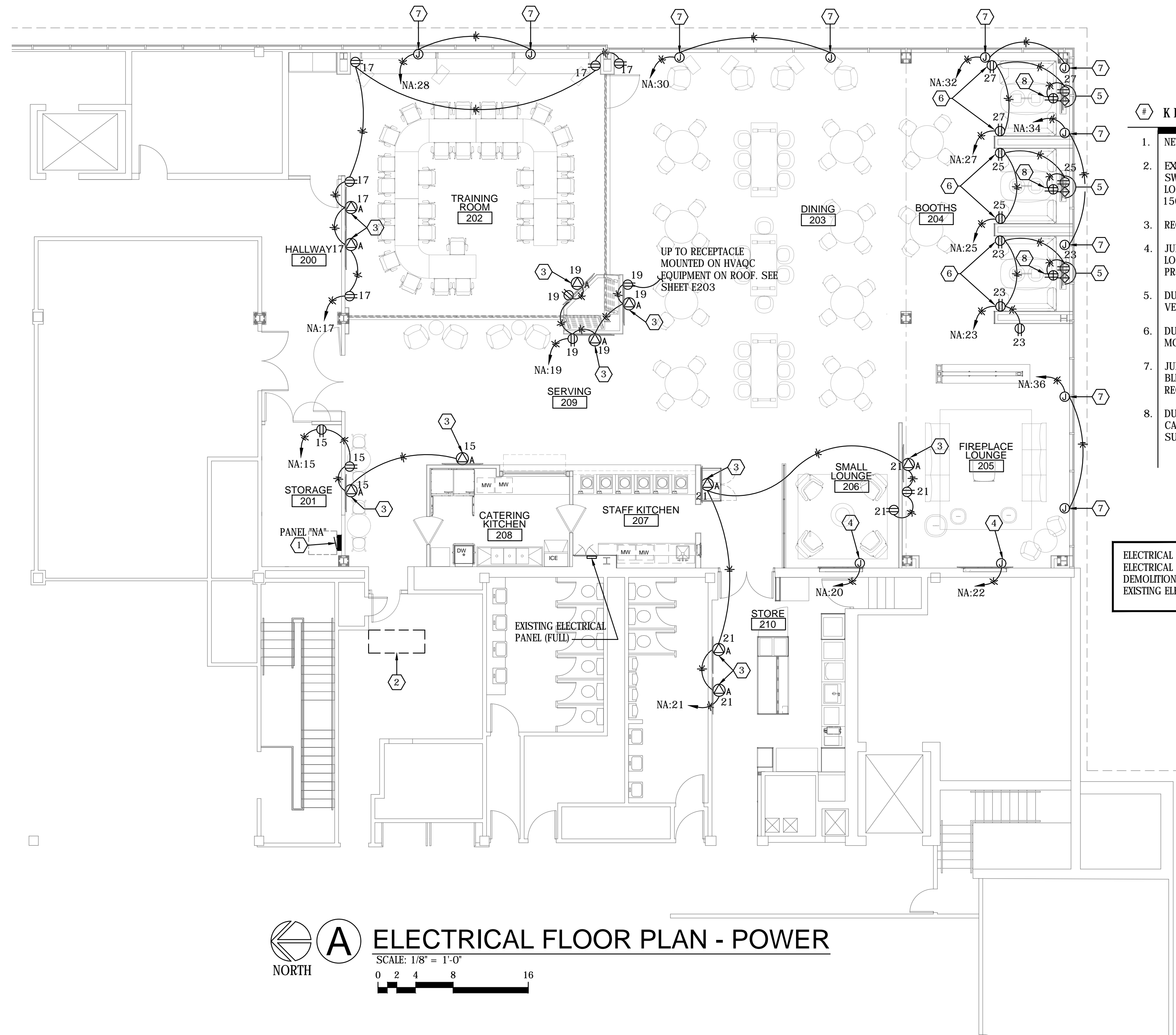
Architect hereby expressly reserves its common law copyright and other property rights in these plans. These plans and drawings are not to be reproduced, changed, copied or assigned to any third party, in any form or manner whatsoever without first obtaining the express written permission of Plan4 Architecture Design.

FARMERS ALLIANCE MUTUAL INSURANCE
1122 NORTH MAIN
MCPHERSON, KANSAS 67460

PLAN4 ARCHITECTURE DESIGN
www.plan4arch.com
303 north main st., mcpherson kansas 670-241-4353



BUILDING KEY PLAN
NOT TO SCALE



ELECTRICAL FLOOR PLAN - POWER

SCALE: 1/8" = 1'-0"
0 2 4 8 16

- KEY NOTES:**
1. NEW ELECTRICAL PANEL PER PANEL SCHEDULE.
 2. EXISTING 120/208V, 3Ø, 4W 1600 AMP MAIN DISTRIBUTION SWITCHBOARD, LOCATED IN BASEMENT. FIELD VERIFY EXACT LOCATION PRIOR TO ROUGH-IN. CONNECT NEW PANEL "NA" TO A NEW 150 AMP, 3 POLE CIRCUIT BREAKER, FURNISHED & INSTALLED BY E.C.
 3. RECESSED TV OUTLET FOR WALL MOUNTED T.V.
 4. JUNCTION BOX FOR ELECTRIC FIREPLACE. FIELD VERIFY EXACT LOCATION AND CONNECTION REQUIREMENTS WITH EQUIPMENT PROVIDED PRIOR TO ROUGH-IN.
 5. DUPLEX RECEPTACLE AND TV OUTLET FOR POP-UP TV CABINET. FIELD VERIFY EXACT MOUNTING LOCATION PRIOR TO ROUGH-IN.
 6. DUPLEX RECEPTACLE MOUNTED FOR FURNITURE. FIELD VERIFY EXACT MOUNTING LOCATION WITH FURNITURE SUPPLIED PRIOR TO ROUGH-IN.
 7. JUNCTION BOX RECESSED IN CEILING FOR CONNECTION TO POWERED BLINDS. FIELD VERIFY EXACT LOCATION AND CONNECTION REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
 8. DUPLEX RECEPTACLE WITH USB PLUG MOUNTED IN FACE OF TV CABINET. FIELD VERIFY EXACT MOUNTING LOCATION WITH FURNITURE SUPPLIED PRIOR TO ROUGH-IN.

ELECTRICAL DEMOLITION NOTE:
ELECTRICAL CONTRACTOR SHALL REFERENCE ARCHITECTURAL DRAWINGS FOR THE DEMOLITION OF WALLS, LIGHTS AND CEILING. DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL DEVICES AND LIGHTS BEING REMOVED PRIOR TO DEMOLITION.

Contract Date	
Rev No. 1	
Rev No. 2	
Rev No. 3	
Rev No. 4	
Rev No. 5	
Rev No. 6	
Project Number:	22.31
DWG File	
Designed By:	CRS
Drawn By:	JAW
Approved By:	plan4
Date:	03/25/2024



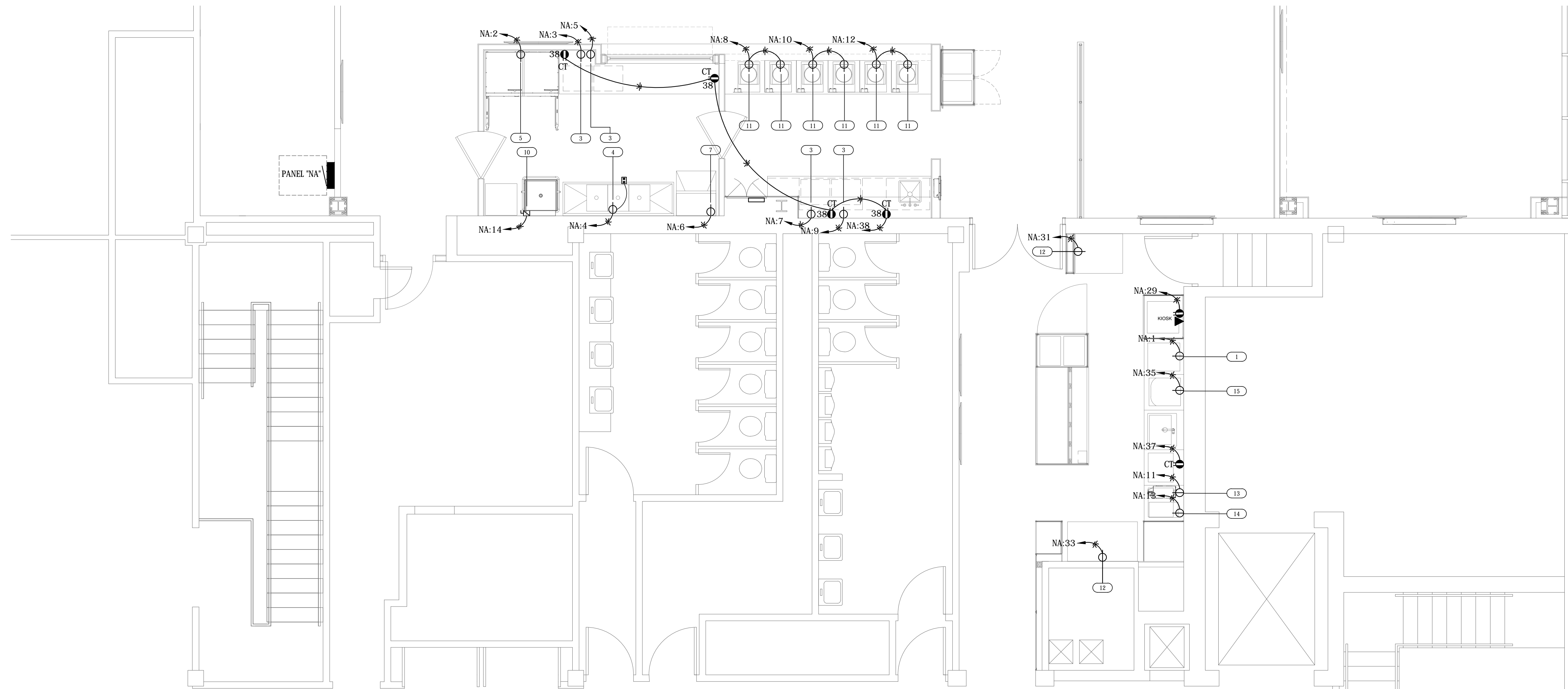
SHEET NUMBER
E201



Farmers Alliance Mutual Insurance
1122 North Main
McPherson, Kansas 67460



Architect hereby expressly reserves its common law copyright and other property rights in these plans. These plans and drawings are not to be reproduced, changed, copied or assigned to any third party, in any form or manner whatsoever without first obtaining the express written permission of Plan4 Architecture Design.



ENLARGED ELECTRICAL FLOOR PLAN - POWER
 SCALE: 1/4" = 1'-0"
 NORTH

EQUIPMENT CONNECTION SCHEDULE

No.	DESCRIPTION	QUANTITY	VOLTAGE			LOAD			DISCONNECT DEVICE AT UNIT							CIRCUIT BREAKER AND FEEDER SIZE AMPS	NOTES			
			120 / 60 / 10	208 / 60 / 10	208 / 60 / 30	KW	FLA	MCA	NEMA-1	NEMA-3R	JCT BOX	20A / 1P	20A / 2P	30A / 2P	50A / 2P			60A / 2P	30A / 3P	60A / 3P
1	ICE MACHINE / DISPENSER	1	●			1.08	9.0	11.25	●										20/1	NEMA 5-20P SINGLE RECEPTACLE
3	MICROWAVE	4	●			1.56	13.0	16.25	●										20/1	NEMA 5-20P SINGLE RECEPTACLE
4	DISPOSAL	1	●			1.17	9.8	12.25	●										20/1	NEMA 5-20P SINGLE RECEPTACLE
5	UPRIGHT REACH-IN DUAL TEMPS	1	●			1.08	9.0	11.25	●										20/1	NEMA 5-20P SINGLE RECEPTACLE
7	ICE MAKER, UNDERCOUNTER	1	●			1.4	11.44	14.3	●										20/1	NEMA 5-20P SINGLE RECEPTACLE
10	HIGH TEMP. DISHWASHER	1	●	●		14.1	39.2	49.0	●	●							SW	60/3	VERIFY DISCONNECT REQUIREMENTS	
11	INDUCTION WARMER	6	●			0.6	5.0	6.25	●										20/1	NEMA 5-20P SINGLE RECEPTACLE
12	REFRIGERATOR	2	●			1.2	10.0	12.5	●										20/1	NEMA 5-20P SINGLE RECEPTACLE
13	COFFEE BREWER	1	●			1.44	12.0	15.0	●										20/1	NEMA 5-20P SINGLE RECEPTACLE
14	TEA BREWER	1	●			1.44	12.0	15.0	●										20/1	NEMA 5-20P SINGLE RECEPTACLE
15	COFFEE MACHINE	1	●			1.92	16.0	20.0	●										20/1	NEMA 5-20P SINGLE RECEPTACLE

- EQUIPMENT NOTES**
- ALL KITCHEN EQUIPMENT ELECTRICAL REQUIREMENTS AND CONNECTIONS ARE DESIGNED ACCORDING TO INFORMATION PROVIDED AT TIME OF DESIGN. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL ELECT. LOADS, LOCATIONS, CONNECTION, AND PLUG CONFIGURATION REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN. IN THE EVENT THAT THE EQUIPMENT PROVIDED DIFFER FROM THE FINAL DRAWINGS IT IS THE RESPONSIBILITY OF THE EQUIP. SUPPLIER / INSTALLER TO PROVIDE THE ELECTRICAL CONTRACTOR WITH THESE CHANGES.
 - ALL SWITCHES, TIMELOCKS, RELAYS, TRANSFORMERS, ETC. SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. FIELD VERIFY WITH MECHANICAL DESIGNER AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
 - PER N.E.C. 210.8 ALL 120V/1Ø, 208V/1Ø, AND 208V, 3Ø RECEPTACLES LOCATED IN THE KITCHEN SHALL BE PROTECTED BY A GFCI TYPE CIRCUIT BREAKER IN THE PANEL, UNLESS OTHERWISE NOTED.

SYMBOL KEY
 TS - TOGGLE SWITCH
 SW - FUSIBLE SWITCH
 R - STANDARD RECEPTACLE
 G - GFCI RECEPTACLE
 M - MOTOR STARTER SWITCH
 J - JUNCTION BOX, VERIFY DISCONNECT MEANS



Contract Date	
Rev No. 1	
Rev No. 2	
Rev No. 3	
Rev No. 4	
Rev No. 5	
Rev No. 6	

Project Number:	22.31
DWG File	
Designed By:	CRS
Drawn By:	JAW
Approved By:	plan4
Date:	03/25/2024

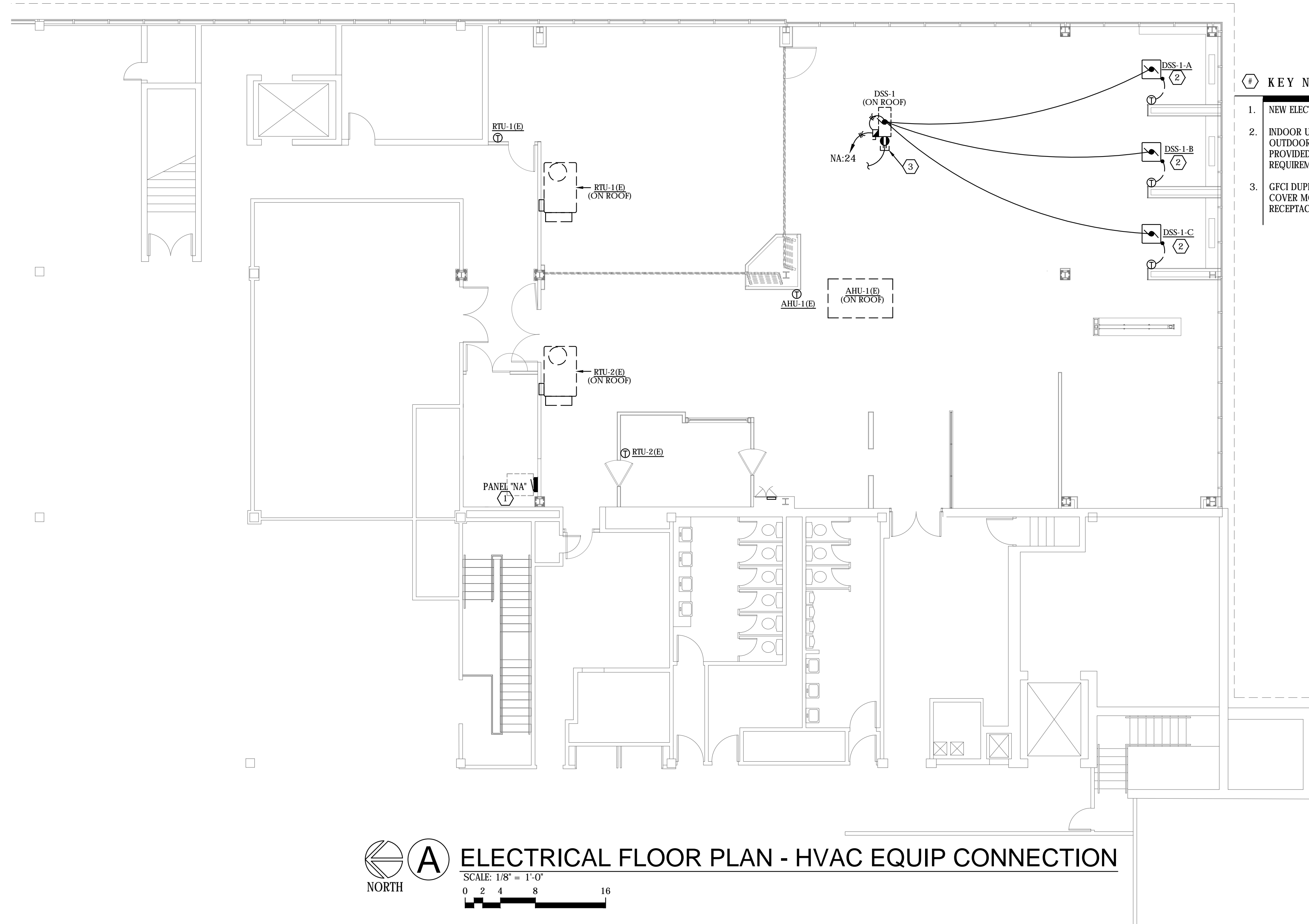


SHEET NUMBER
E202

Farmers Alliance Mutual Insurance
 1122 North Main
 McPherson, Kansas 67460



Architect hereby expressly reserves its common law copyright and other property rights in these plans. These plans and drawings are not to be reproduced, changed, copied or assigned to any third party, in any form or manner whatsoever without first obtaining the express written permission of Plan4 Architecture Design.



- KEY NOTES:**
1. NEW ELECTRICAL PANEL PER PANEL SCHEDULE.
 2. INDOOR UNITS DSS-1-A, DSS-1-B, DSS-1-C ARE POWERED TO OUTDOOR UNIT DSS-1 MOUNTED ON THE ROOF VIA POWER CABLE PROVIDED WITH EQUIPMENT. E.C. TO FIELD VERIFY EXACT CONNECTION REQUIREMENTS WITH EQUIPMENT PROVIDED PRIOR TO ROUGH-IN.
 3. GFCI DUPLEX RECEPTACLE IN NEMA-3R BOX WITH WEATHERPROOF COVER MOUNTED ON EQUIPMENT. CONNECT TO THE 120 VOLT RECEPTACLE CIRCUIT NA:19 BELOW.

A ELECTRICAL FLOOR PLAN - HVAC EQUIP CONNECTION
 SCALE: 1/8" = 1'-0"
 0 2 4 8 16

PLAN4
 ARCHITECTURE DESIGN
 www.plan4arch.com
 303 north main st., mcpherson kansas 67241-4353

Farmers Alliance Mutual Insurance
 1122 North Main
 McPherson, Kansas 67460

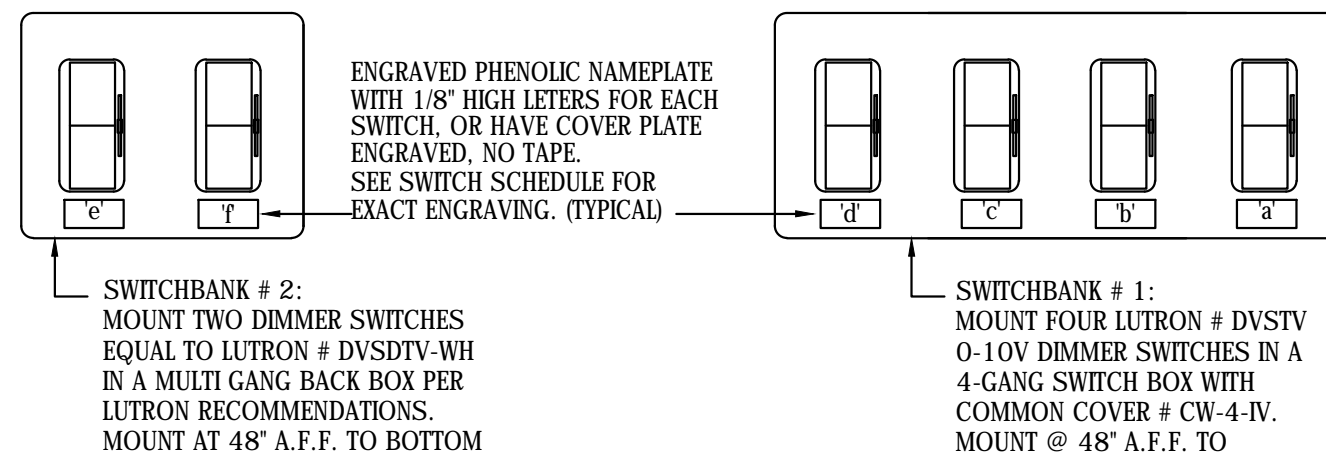
Contract Date	
Rev No. 1	
Rev No. 2	
Rev No. 3	
Rev No. 4	
Rev No. 5	
Rev No. 6	
Project Number:	22.31
DWG File	
Designed By:	CRS
Drawn By:	JAW
Approved By:	plan4
Date:	03/25/2024



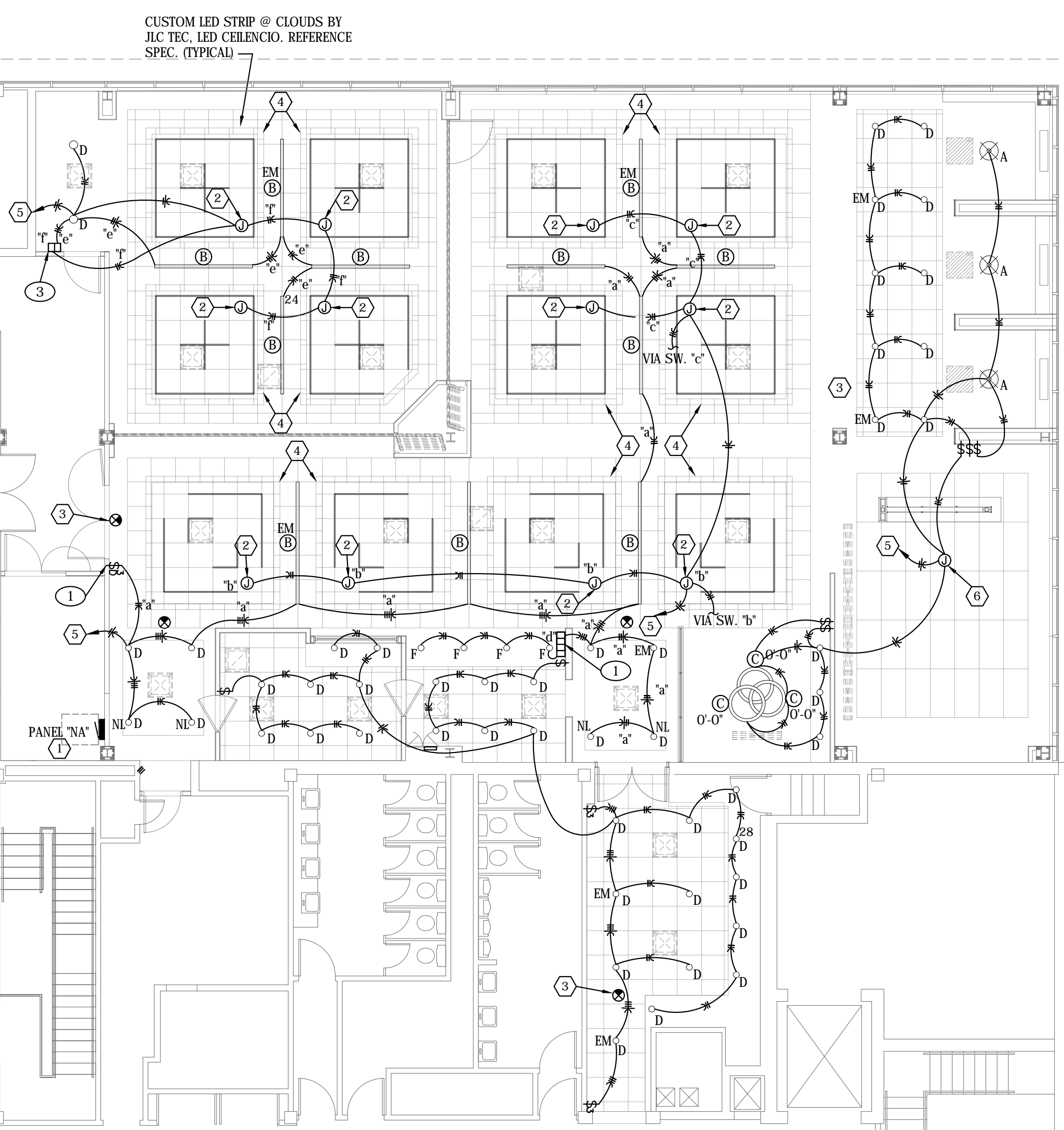
SHEET NUMBER
E203

Architect hereby expressly reserves its common law copyright and other property rights in these plans. These plans and drawings are not to be reproduced, changed, copied or assigned to any third party, in any form or manner whatsoever without first obtaining the express written permission of Plan4 Architecture Design.

SWITCHBANK SCHEDULE		
SYM	DESCRIPTION (ENGRAVING)	SWITCH TYPE
SWITCHBANK # 1		
'a'	AREA PENDANTS LIGHTS	SLIDE TO OFF THREE-WAY DIMMER SWITCH
'b'	SERVING CLOUDS	SLIDE TO OFF SINGLE POLE DIMMER SWITCH
'c'	DINING CLOUDS	SLIDE TO OFF SINGLE POLE DIMMER SWITCH
'd'	COUNTER LIGHTS	SLIDE TO OFF SINGLE POLE DIMMER SWITCH
'e'	TRAINING PENDANTS	SLIDE TO OFF SINGLE POLE DIMMER SWITCH
'f'	TRAINING CLOUDS	SLIDE TO OFF SINGLE POLE DIMMER SWITCH



B SWITCHBANK DETAILS
NOT TO SCALE



A ELECTRICAL FLOOR PLAN - LIGHTING
SCALE: 1/8" = 1'-0"
0 2 4 8 16

- KEY NOTES:**
- NEW ELECTRICAL PANEL PER PANEL SCHEDULE.
 - NEMA-1 JUNCTION BOX MOUNTED ABOVE DROP CLOUD CEILING FOR CONNECTION TO THE LED CUSTOM FIXTURES IN THE CLOUD. FIELD VERIFY EXACT CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN.
 - EXIT LIGHT AND LIGHT FIXTURES EMERGENCY BATTERY BACK-UP TO BE CONNECTED TO THE LIGHTING CIRCUIT IN THE AREA UN-SWITCHED.
 - CUSTOM LED STRIP @ CLOUDS BY JLC TEC. LED CELENCIO. REFERENCE SPEC.
 - CONNECT TO THE EXISTING 277V LIGHTING CIRCUIT IN THE AREA IF THE EXISTING CIRCUIT IN THE AREA HAS THE CAPACITY TO INCLUDE 2.5 KW OF ADDITIONAL LIGHTING AFTER THE DEMOLITION OF EXISTING LIGHTS. WITH 2 No. 12 THHN & 1 No. 12 GROUND IN 1/2" CONDUIT. IF THERE IS NO CAPACITY ON THE EXISTING CIRCUIT, CONNECT TO THE NEXT AVAILABLE SPACE OR SPARE 20A. 277V LIGHTING CIRCUIT IN THE EXISTING 277/480V PANEL. FURNISH & INSTALL A NEW BREAKER IN THE EXISTING PANEL IF NO SPARE IS PRESENT.
 - JUNCTION BOX ABOVE CEILING FOR THE 'ARKTURA VAPOR VERVE' LIGHTED CEILING SYSTEM. FIELD VERIFY EXACT LOCATION AND CONNECTION REQUIREMENTS WITH INSTALLED PRIOR TO ROUGH-IN.
- SWITCH NOTES:**
- THREE-WAY DIMMER SWITCH 'a'.
 - SWITCHBANK # 1: THREE-WAY DIMMER SWITCH 'a', SINGLE POLE DIMMER SWITCHES 'b' & 'c'.
 - SWITCHBANK # 2: SINGLE POLE DIMMER SWITCHES 'd', & 'e'.

ELECTRICAL DEMOLITION NOTE:
ELECTRICAL CONTRACTOR SHALL REFERENCE ARCHITECTURAL DRAWINGS FOR DEMOLITION OF WALLS, LIGHTS AND CEILING. DISCONNECT AND REMOVE EXISTING ELECTRICAL DEVICES AND LIGHTS BEING REMOVED PRIOR TO DEMOLITION

Contract Date	
Rev No. 1	
Rev No. 2	
Rev No. 3	
Rev No. 4	
Rev No. 5	
Rev No. 6	
Project Number:	22.31
DWG File	
Designed By:	CRS
Drawn By:	JAW
Approved By:	plan4
Date:	03/25/2024



SHEET NUMBER
E301



Farmers Alliance Mutual Insurance
1122 North Main
McPherson, Kansas 67460



Architect hereby expressly reserves its common law copyright and other property rights in these plans. These plans and drawings are not to be reproduced, changed, copied or assigned to any third party, in any form or manner whatsoever without first obtaining the express written permission of Plan4 Architecture Design.

16010 - BASIC ELECTRICAL REQUIREMENTS

16010.01 - DRAWINGS AND SPECIFICATIONS
THE CONTRACT DRAWINGS FOR DIVISION 16 WORK ARE IN PART SCHEMATIC, INTENDED TO CONVEY THE SCOPE OF WORK AND INDICATE THE GENERAL LAYOUT, DESIGN AND ARRANGEMENT. THE CONTRACTOR SHALL FOLLOW THESE DRAWINGS IN THE LAYOUT OF HIS WORK AND SHALL CONSULT GENERAL INTENT CONSTRUCTION DRAWINGS, STRUCTURAL DRAWINGS, MECHANICAL DRAWINGS AND ALL OTHER DRAWINGS FOR THIS PROJECT TO DETERMINE ALL CONDITIONS AFFECTING THE DIVISION 16 WORK.

WHERE SPECIFIC DETAILS AND DIMENSIONS FOR DIVISION 16 WORK ARE NOT SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL TAKE MEASUREMENTS AS REQUIRED FOR THE PROPER INSTALLATION OF THE WORK AND COORDINATION WITH ALL OTHER WORK ON THE PROJECT. IN CASE OF ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE SPECIFICATIONS THAT HAVE NOT BEEN CLARIFIED BY ADDENDUM PRIOR TO BIDDING, IT SHALL BE ASSUMED BY THE SIGNING OF THE CONTRACT THAT THE HIGHER COST IS INCLUDED IN THE CONTRACT PRICE.

16010.02 - WORK INCLUDED
THIS WORK SHALL INCLUDE ALL PLANT, LABOR, MATERIAL AND EQUIPMENT AS REQUIRED TO FURNISH AND INSTALL DIVISION 16 WORK INCLUDING DEMOLITION AS SHOWN ON THE DRAWINGS AND AS HEREAFTER SPECIFIED. FURNISH AND INSTALL ALL MATERIALS, EQUIPMENT, DEVICES AND ACCESSORIES NOT SPECIFICALLY CALLED FOR BY ITEM BUT THAT ARE NECESSARY TO PROVIDE THE REQUIREMENTS IN OPERATION AND FUNCTION THAT IS ESTABLISHED BY THE DESIGN AND BY THE EQUIPMENT SPECIFIED.
WORK TO INCLUDE THE PROCUREMENT OF AND PAYMENT OF ALL PERMITS AND LICENSES REQUIRED FOR THE PERFORMANCE OF THE WORK. WORK TO INCLUDE ALL FEES AND DIRECT EXPENSES INVOLVED IN ANY INSPECTIONS REQUIRED FOR THE PROJECT. ALL SCAFFOLDS, STAGING, RUNWAYS AND EQUIPMENT REQUIRED FOR THE PERFORMANCE OF THE WORK. THE REMOVAL FROM THE PREMISES, AS IT ACCUMULATES, OF ALL DIRT AND REFUSE RESULTING IN THE PERFORMANCE OF THE WORK.

16010.03 - PROTECTION AND DUST CONTROL
THE CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION TO PREVENT DAMAGE TO ADJACENT AREAS, EQUIPMENT, OR FURNISHINGS; TO PREVENT ACCIDENTAL INJURY TO THE BUILDING OCCUPANTS AND THE PUBLIC; TO PREVENT THE SPREADING OF DUST, DIRT, DEBRIS, AND MOISTURE FROM GETTING ON OR IN THE BUILDING OCCUPANTS FURNISHINGS OR EQUIPMENT.

16010.04 - EXISTING CONDITIONS
EACH BIDDER SHALL INSPECT THE SITE AS REQUIRED FOR KNOWLEDGE OF EXISTING CONDITIONS AND FAILURE TO OBTAIN SUCH KNOWLEDGE SHALL NOT RELIEVE THE SUCCESSFUL BIDDER OF THE RESPONSIBILITY TO MEET THE EXISTING CONDITIONS IN SUCH MANNER AS SHOWN ON THE CONTRACT DOCUMENTS.

WHERE EXISTING POWER, LIGHTING OR CONTROL CIRCUITRY IS BROKEN BY REMOVAL OF EXISTING DEVICES, EQUIPMENT OR FIXTURES, OR BY DEMOLITION WORK, CUTTING OR REMOVAL OF EXISTING BUILDING CONSTRUCTION, AND WHERE THE EXISTING CIRCUITRY IS REQUIRED BY REMAINING DEVICES OR EQUIPMENT TO STAY IN SERVICE, THEN THE CIRCUITRY SHALL BE COMPLETED AS REQUIRED BY JOB CONDITIONS.

16010.05 - MATERIAL AND MANUFACTURE
ALL MATERIAL AND EQUIPMENT SHALL BE NEW EXCEPT AS STATED OTHERWISE. SHALL BE OF THE BEST QUALITY AND DESIGN. SHALL BE FREE FROM DEFECTS AND IMPERFECTIONS AND SHALL HAVE MARKINGS OR A NAMEPLATE IDENTIFYING THE MANUFACTURER AND PROVIDING SUFFICIENT REFERENCE TO ESTABLISH QUALITY, SIZE AND CAPACITY.

16010.06 - SUBSTITUTIONS
ALL PRODUCTS PROPOSED FOR USE, INCLUDING THOSE SPECIFIED BY REQUIRED ATTRIBUTES AND PERFORMANCE, SHALL REQUIRE APPROVAL BY THE ENGINEER BEFORE BEING INCORPORATED INTO THE WORK.

WHERE THE PHRASE "OR EQUAL" OR "APPROVED EQUAL" OCCURS IN THE CONTRACT DOCUMENTS, DO NOT ASSUME THAT MATERIALS, EQUIPMENT OR METHODS WILL BE APPROVED AS EQUAL UNLESS THE ITEM HAS BEEN SPECIFICALLY APPROVED FOR THIS WORK BY THE ENGINEER/ARCHITECT.

16010.07 - SAFETY REGULATIONS
ALL DIVISION 16 WORK SHALL BE PERFORMED IN COMPLIANCE WITH ALL APPLICABLE AND GOVERNING SAFETY REGULATIONS OF THE OCCUPATIONAL AND SAFETY HEALTH ACT.

16010.08 - CODES, ORDINANCES, REGULATIONS AND ALL APPROVAL
THE DIVISION 16 WORK SHALL CONFORM TO THE REQUIREMENTS OF ALL APPLICABLE CODES, ORDINANCES AND REGULATIONS INCLUDING CURRENT RULES AND REGULATIONS OF THE NATIONAL ELECTRICAL CODE, THE NATIONAL FIRE PROTECTION ASSOCIATION, OSHA AND ALL STATE AND LOCAL LAWS, CODES AND ORDINANCES.

FIXTURES, APPLIANCES, EQUIPMENT AND MATERIALS WHICH ARE SUBJECT TO UNDERWRITERS LABORATORY TESTS SHALL BEAR SUCH APPROVAL.

16010.09 - OPENINGS IN FIRE RATED ASSEMBLIES
WHERE OPENINGS ARE MADE OR LEFT DUE TO CONSTRUCTION THROUGH FIRE RATED ASSEMBLIES FOR CONDUIT OR NIPPLES, FOR SLEEVES CONTAINING CABLE OR WIRE, AND OPEN CONDUITS THROUGH FIRE RATED ASSEMBLIES THE AREA AROUND THE OPENINGS, SLEEVES AND CONDUITS SHALL BE FILLED WITH CHASE TECHNOLOGY CORP. JCTCP-855 OR DOW CORNING 93-6548 RIV SILICONE OR APPROVED EQUAL, FIRE RESISTANT FOAM SEALANT AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.

16010.10 - ROOF PENETRATIONS
ALL OPENINGS IN THE ROOF FOR ELECTRICAL CONDUITS SHALL BE MADE WEATHER AND WATER TIGHT USING "STONEMAN" MULTI-FLASH OR VERSA-FLASH SEAMLESS FLASHING ASSEMBLY FOR CONDUIT THROUGH 2" DIAMETER. CONDUIT SIZES OVER 2" DIAMETER SHALL HAVE PITCH POCKETS FILLED WITH PITCH AND GALVANIZED DRIP SHIELD INSTALLED AROUND CONDUITS. THE DRIP SHIELD SHALL COMPLETELY COVER THE PITCH POCKET.

16010.11 - EXCAVATION AND BACK FILLING
PERFORM ALL EXCAVATING AND BACK FILLING FOR THE CONSTRUCTION AND INSTALLATION OF THE WORK INCLUDED UNDER THIS DIVISION. LINES SHALL BE USED TO LAYOUT THE TRENCHES FOR ALL UNDERGROUND WORK. TRENCHES CLOSE TO WALLS, FOUNDATIONS, AND COLLUMS SHALL NOT BE EXCAVATED WITHOUT PRIOR CONSULTATION WITH THE ENGINEER/ARCHITECT.

ALL EXCAVATIONS SHALL BE PROPERLY PROTECTED BY THE NECESSARY BRACING AND TIMBERS TO PREVENT ANY CAVE-INS OR INJURY TO ADJACENT IMPROVEMENTS.

CUT AND REPLACE ALL EXISTING WALKS, ROADS, STREET PAVEMENT, CURBS, STEPS, RETAINING WALLS AND MISCELLANEOUS WORK REQUIRED FOR INSTALLATION OR WORK UNDER THIS DIVISION.

THE BACK FILLING OF TRENCHES SHALL BE CARRIED OUT AS RAPIDLY AS THE FINISHED WORK IS APPROVED AND WILL PERMIT. THE TRENCH SHALL BE BACK FILLED IN LAYERS NOT TO EXCEED 6" WITH GOOD SELECTED DRY EARTH THOROUGHLY TAMPED WITH A PNEUMATIC TAMPER. AFTER BACK FILLING, ALL SURPLUS EXCAVATED MATERIAL SHALL BE REMOVED FROM THE SITE.

16010.12 - SHOP DRAWINGS AND SAMPLES
SUBMIT FOR APPROVAL A PDF SET OF MANUFACTURER'S SHOP DRAWINGS OF ALL MAJOR ITEMS OF EQUIPMENT AND ALL ITEMS REQUIRING COORDINATION BETWEEN CONTRACTORS. ACCEPTANCE OF THE WORK SHALL BE SUBJECT TO THE ENGINEERS/ARCHITECTS APPROVAL OF SHOP DRAWINGS, PRODUCT DATA AND SAMPLES. SHOP DRAWINGS SHALL INCLUDE MANUFACTURERS DETAIL DRAWINGS OF EQUIPMENT AND MATERIAL, AND CONTRACTORS SHOP DETAILS FOR INSTALLATION OF MATERIAL AND EQUIPMENT. DESCRIPTIVE LITERATURE SHALL INCLUDE CATALOG DATA COVERING DESIGN, SIZE AND CAPACITY OF MATERIAL AND EQUIPMENT. SUBMITTALS SHALL INCLUDE THE MANUFACTURERS MODEL NUMBER, CAPACITY, PERFORMANCE DATA, ELECTRICAL CHARACTERISTICS, ETC., ALL CLEARLY SHOWN AND MARKED FOR THE SPECIFIC ITEM OF EQUIPMENT BEING SUBMITTED FOR THIS PROJECT.

16010.13 - RECORD DRAWINGS
THE CONTRACTOR SHALL KEEP DAY-TO-DAY RECORD OF ALL CHANGES OR VARIATIONS MADE FROM THE CONTRACT DOCUMENTS AND AT THE END OF THE PROJECT SHALL PROVIDE THE OWNER/ARCHITECT/ENGINEER WITH REPRODUCIBLE SETS AS REQUESTED.

16010.14 - WIRING OF MECHANICAL EQUIPMENT
FURNISH AND INSTALL ALL POWER WIRING, AND ALL CONTROL AND INTERLOCK WIRING OF ALL UNITS, PUMPS, FANS, WATER HEATERS, ETC. CONNECT PER MANUFACTURERS WIRING DIAGRAMS. FURNISH AND INSTALL ALL NECESSARY DISCONNECT SWITCHES REQUIRED. AFTER INSTALLATION OF THE CONTROL INTERLOCK WIRING, THE CONTRACTOR SHALL VERIFY THAT EACH MOTOR LOAD HAS THE CORRECT PHASE ROTATION. THIS CONTRACTOR SHALL VERIFY THE ACTUAL WIRE SIZES AMPS FOR MECHANICAL EQUIPMENT FROM THE EQUIPMENT NAMEPLATE, ELECTRICAL INSTALLATION SHALL BE BASED ON ACTUAL REQUIRED AMPERAGES, WHICH MAY VARY SOMEWHAT FROM THE WIRE AND EQUIPMENT SIZES SHOWN ON THE DRAWINGS. PROPERLY SIZED ELECTRICAL WIRING AND EQUIPMENT SHALL BE FURNISHED WITHOUT EXTRA COST TO THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ALL CHANGES TO BE MADE IN THE ELECTRICAL INSTALLATION DUE TO EQUIPMENT VARIANCES THAT THE IMPACT ON FEEDERS, PANELS, FUSE AND BREAKER SIZES CAN BE CHECKED PRIOR TO THE INSTALLATION.

16010.15 - WIRING OF THERMOSTATS AND TEMPERATURE CONTROLS
FURNISH AND INSTALL ALL POWER WIRING, AND ALL CONTROL AND INTERLOCK WIRING OF ALL THERMOSTATS AND TEMPERATURE CONTROL DEVICES INCLUDING NIGHTSTAYS, TIME SWITCHES, OVERRIDE TIMERS, ETC. SEE MECHANICAL DRAWINGS FOR LOCATIONS AND TEMPERATURE CONTROL DIAGRAMS.

16010.16 - TELEPHONE SYSTEM PROVISIONS
ELECTRICAL CONTRACTOR TO FIELD VERIFY WITH LOCAL SERVICE PROVIDER FOR THE EXACT REQUIREMENTS TO BRING SERVICE TO THIS PROJECT. PROVIDE AND INSTALL FLUSH MOUNTED TELEPHONE OUTLET BOXES WITH 1" CONDUIT STUB UP CONCEALED TO ACCESSIBLE CEILING SPACE AT LOCATIONS AS SHOWN ON THE DRAWINGS.

16010.17 - DATA SYSTEM PROVISIONS
PROVIDE AND INSTALL FLUSH MOUNTED DATA OUTLET BOXES WITH 1" CONDUIT STUB UP CONCEALED TO ACCESSIBLE CEILING SPACE AT LOCATIONS AS SHOWN ON THE DRAWINGS.

16010.18 - ADJUSTING ALIGNING AND TESTING
ALL ELECTRICAL EQUIPMENT ON THIS PROJECT FURNISHED UNDER THIS DIVISION AND ALL ELECTRICAL EQUIPMENT FURNISHED BY OTHERS SHALL BE ADJUSTED, ALIGNED AND TESTED FOR PROPER OPERATION BY THE ELECTRICAL CONTRACTOR. COMPLETE WIRING CIRCUITS SHALL BE FREE FROM SHORT CIRCUITS. ALL MOTORS SHALL BE VERIFIED FOR PROPER PHASE ROTATION. THE CONTRACTOR SHALL PROVIDE TEST DATA READINGS AS REQUESTED OR AS NOTED. THE CONTRACTOR SHALL HAVE THE FOLLOWING READILY ACCESSIBLE AT ALL TIMES DURING THIS PROJECT: A TRUE RMS READING VOLTMETER, A TRUE RMS READING AMPMETER, AND A MEGGER INSULATION RESISTANCE METER.

16010.19 - OPERATION AND MAINTENANCE INSTRUCTIONS
SUBMIT TO THE ARCHITECT THREE COPIES EACH OF MATERIAL FOR MAINTENANCE AND OPERATION INSTRUCTION MANUALS, APPROPRIATELY BOUND INTO MANUAL FORM INCLUDING APPROVED COPIES OF THE FOLLOWING, REVISED IF NECESSARY TO SHOW SYSTEM AND EQUIPMENT AS ACTUALLY INSTALLED: MANUFACTURERS CATALOG SHEETS, WIRING DIAGRAMS, MAINTENANCE INSTRUCTIONS, OPERATING INSTRUCTIONS, PARTS LIST. CONTRACTOR SHALL ALSO PROVIDE ADEQUATE VERBAL INSTRUCTIONS OF SYSTEM OPERATION TO OWNER'S REPRESENTATIVE AT THE TERMINATION OF THE WORK.

16010.20 - STARTUP OF SYSTEMS
PRIOR TO STARTUP OF THE ELECTRICAL SYSTEMS, THE CONTRACTOR SHALL CHECK ALL COMPONENTS AND DEVICES, LUBRICATE ITEMS ACCORDINGLY, AND TIGHTEN ALL SCREWED AND BOLTED CONNECTIONS. ADJUST TAPS ON EACH TRANSFORMER FOR RATED SECONDARY VOLTAGE. CHECK SERVICE ENTRANCE VOLTAGE, GROUNDING CONDITIONS, GROUNDING RESISTANCE AND PROPER PHASING. BALANCE SINGLE PHASE LOADS AT EACH PANELBOARD, REDISTRIBUTING BRANCH CIRCUIT CONNECTIONS UNTIL BALANCE IS ACHIEVED. AFTER ALL SYSTEMS HAVE BEEN INSPECTED AND ADJUSTED, CONFIRM ALL OPERATING FEATURES REQUIRED BY THE DRAWINGS AND SPECIFICATIONS AND MAKE FINAL ADJUSTMENTS AS NECESSARY.

16010.21 - GUARANTEE
GUARANTEE AGAINST WORKMANSHIP AND MATERIAL FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL PAYMENT. GUARANTEE SHALL INCLUDE MATERIAL TO BE REPLACED AND ALL LABOR REQUIRED.

16014 - ELECTRICAL IDENTIFICATION

16014.01 - DESCRIPTION OF WORK
PROVIDE AND INSTALL REQUIRED IDENTIFICATION FOR THE SYSTEMS AND EQUIPMENT SHOWN ON THE DRAWINGS AND/OR SPECIFIED. UNDERGROUND PLASTIC LINE MARKER: MANUFACTURERS STANDARD PERMANENT, BRIGHT-COLORED, CONTINUOUS-PRINTED PLASTIC TAPE, FOR DIRECT BURIAL SERVICE; MINIMUM 6" WIDE X 4 MILS THICK. PRINTING TO INDICATE TYPE OF SERVICE CABLE; WITH LARGE (MINIMUM 2-1/2") HIGH LETTERS.

CABLE/CONDUCTOR IDENTIFICATION BANDS: MANUFACTURERS STANDARD VINYL SELF-ADHESIVE SELF LAMINATING CABLE/CONDUCTOR MARKERS, WRAP AROUND TYPE, PRE-NUMBERED PLASTIC COATED, OR WRITE-ON TYPE, SELF-ADHESIVE PLASTIC SELF-ADHESIVE COVER FLAP, LETTERING TO SHOW CIRCUIT IDENTIFICATION. SIMILAR TO PANDUIT "INSTACODE" OR ACCEPTED EQUIVALENT BY T&B OR TYTON. SELF-ADHESIVE PLASTIC SIGNS: MANUFACTURERS STANDARD, SELF ADHESIVE, PRE-PRINTED, FLEXIBLE VINYL SIGNS FOR OPERATIONAL INSTRUCTIONS OR WARNINGS. DANGER SIGNS: MANUFACTURERS STANDARD "DANGER" SIGNS, BAKED ENAMEL FINISH ON 20 GAUGE STEEL; STANDARD RED, BLACK AND WHITE GRAPHICS.

16110 - RACEWAYS

16110.01 - DESCRIPTION OF WORK
INSTALLATION OF RACEWAY SYSTEMS FOR ALL WORK IN DIVISION 16 INCLUDING REQUIRED FITTINGS AND SUPPORTS. ALL CONDUCTORS SHALL BE INSTALLED IN METALLIC CONDUIT UNLESS SPECIFIED.

16110.02 - PRODUCTS
ALL CONDUIT SHALL BE ELECTRICAL METALLIC TUBING (EMT), EXCEPT CONDUIT LARGER THAN 4" DIAMETER, CONDUIT OUTDOORS OR IN NEAR DAMP LOCATIONS, OR IN NEC CLASSIFIED HAZARDOUS LOCATIONS, CONDUIT IN EARTH OR BELOW GRADE, AND EXCEPT AS OTHERWISE NOTED ON THE DRAWINGS OR SPECIFIED OTHERWISE.

ELECTRICAL METALLIC TUBING TO BE THREADLESS, STEEL TYPE CONFORMING TO ANSI STANDARD C80.3, NEC 348, AND UL 797, GALVANIZED INSIDE AND OUT. ALL EMT FITTINGS TO BE COMPRESSION TYPE UNLESS OTHERWISE NOTED.

ALL UNDERGROUND CONDUIT SHALL BE RIGID. ENCASE EACH UNDERGROUND CONDUIT IN CONCRETE AS INDICATED ON THE DRAWINGS. SHORT SECTIONS OF FLEXIBLE CONDUIT (GREENFIELD) SHALL BE USED FROM JUNCTION OR OUTLET BOXES TO LIGHTING FIXTURES AS PERMITTED BY THE NATIONAL ELECTRICAL CODE. CONNECTIONS FROM OUTLET BOXES ABOVE CEILING TO FLUORESCENT FIXTURES RECESSED IN CEILING SHALL BE MADE WITH FLEXIBLE METALLIC STEEL CONDUIT NOT TO EXCEED 6 FEET IN LENGTH. FINAL CONNECTIONS TO MOTORS, TRANSFORMERS, AND TO ANY PIECE OF EQUIPMENT THAT WILL TRANSMIT MOTION, NOISE OR VIBRATION SHALL BE FLEXIBLE METAL CONDUIT. FLEXIBLE CONDUIT SHALL NOT BE INSTALLED OUTDOORS OR IN DAMP LOCATIONS. ALL FLEXIBLE CONDUIT IN DENTAL SPACE SHALL BE HOT TYPE.

LIQUID TIGHT FLEXIBLE STEEL CONDUIT SHALL BE USED WHEN MAKING CONNECTIONS IN THE FOLLOWING CONDITIONS: EXPOSED TO LIQUIDS, EXPOSED TO VAPORS, EXPOSED TO SUNLIGHT. 16110.03 - INSTALLATION
CONDUITS SHALL BE RUN PARALLEL AND PERPENDICULAR TO BUILDING LINES AND SHALL BE RUN AGAINST THE STRUCTURE IN A NEAT WORKMANLIKE MANNER. CONDUIT SHALL BE INSTALLED CONCEALED ABOVE SUSPENDED CEILING OR CONCEALED IN WALLS OR FLOORS WHEREVER POSSIBLE. CONDUIT SHALL BE INSTALLED TO CLEAR ALL OPENINGS, DEPRESSIONS, PIPES, DUCTS, REINFORCING STEEL, ETC. ALL CONDUIT SHALL BE RUN OVERHEAD. CONDUIT SHALL BE RUN CONTINUOUS BETWEEN CONNECTIONS TO OUTLET BOXES AND CABINETS WITH MINIMUM POSSIBLE NUMBER OF BENDS. RADIUS OF BENDS SHALL BE AS LONG AS POSSIBLE AND NEVER SHORTER THAN THE CORRESPONDING INSIDE RADIUS OF THE CONDUIT. LONG RADIUS BENDS WHERE NECESSARY. CONDUITS SHALL BE SECURELY FASTENED IN PLACE WITH APPROVED STRAPS, HANGERS AND STEEL SUPPORTS AS REQUIRED. SINGLE CONDUITS FOR FEEDERS SHALL BE HUNG WITH MALLEABLE SPLIT RING HANGERS WITH RIGID TURNBUCKLE SUSPENSION FROM INSERTS SPACED NOT OVER 10 FEET APART FROM CONSTRUCTION ABOVE. GROUPS OF HORIZONTAL FEEDER CONDUITS SHALL BE CLAMPED TO UNSTRUCTURED STEEL CHANNELS AND SUSPENDED FROM INSERTS NOT SPACED OVER 10 FEET APART IN CONSTRUCTION ABOVE. HORIZONTAL FEEDER CONDUITS SHALL BE CLAMPED TO STRUCTURAL STEEL MEMBERS ATTACHED TO THE STRUCTURE. CABLE CLAMPS SHALL BE INSTALLED FOR SUPPORT OF VERTICAL FEEDERS WHERE REQUIRED. CONDUIT SUPPORTS SHALL BE ADDED WITHIN 12" AT ONE END OF ALL BENDS. CONDUIT SHALL NOT BE SUSPENDED FROM SUSPENDED CEILING COMPONENTS.

CONDUIT ENDS SHALL BE REAMED BEFORE INSTALLATION AND ALL CONDUIT SHALL BE THOROUGHLY CLEANED BEFORE INSTALLATION AND KEPT CLEAN AFTER INSTALLATION. PLUS CONDUIT AND BOXES AS REQUIRED DURING CONSTRUCTION TO KEEP CONDUIT CLEAN.

CONDUIT SHALL BE OF AMPLE SIZE FOR PULL CONDUITORS AND NOT SMALLER THAN THE CODE REQUIRED. MINIMUM SIZE CONDUIT SHALL BE 1/2" FOR THIS PROJECT.

WHERE BUILDING EXPANSION JOINTS ARE SHOWN ON THE DRAWINGS PROVIDE PROPER CONDUIT EXPANSION FITTING. CONDUIT SEALS SHALL BE INSTALLED ON ALL CONDUITS PASSING FROM NON-COOLED TO COOLED SPACES AND IN ALL CONDUIT PENETRATIONS OF FREEZER AND COOLER WALLS. SEALS SHALL CONSIST OF PLEURABLE COMPOUND RATED FOR -20 DEGREES F. TO 100 DEGREES F. FURNISH AND INSTALL THE NECESSARY JUNCTION BOXES, COUPLINGS, SUPPORTS, ADAPTERS, ETC. TO FORM A COMPLETE ASSEMBLY.

INSTALL A PULL WIRE IN EACH EMPTY CONDUIT WHICH IS LEFT BY THE CONTRACTOR. ALL CONDUITS AND/OR SURFACE RACEWAYS SHALL BE PAINTED WHERE INSTALLED EXPOSED IN FINISHED SPACES. PAINTING OF SURFACE RACEWAYS SHALL BE AS DIRECTED BY THE ENGINEER/ARCHITECT.

16210 - CONDUCTORS (LOW VOLTAGE, 600 VOLTS)

16210.01 - DESCRIPTION OF WORK
FURNISH AND INSTALL 600 VOLT CONDUCTORS AND ASSOCIATED SPLICES, CONNECTORS AND TERMINATION'S FOR LIGHTING, POWER AND AUXILIARY SYSTEMS AS SHOWN ON THE CONTRACT DOCUMENTS.

16210.02 - MATERIAL
98% CONDUCTIVITY COPPER. NEC TYPE THHN/THWN (90 C DRY/75 C WET) WITH UL LABEL. ALL CONDUCTORS TO BE IN CONDUIT. SINGLE CONDUCTOR, STRANDED (ALL SIZES), SOFT ANNEALED COPPER CONDUCTORS WITH 600 VOLT THERMOPLASTIC INSULATION AND NYLON JACKET.

WIRE SMALLER THAN #12 GAUGE SHALL NOT BE USED UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS OR IN THESE SPECIFICATIONS. WIRE INSULATION SHALL BE COLOR CODED AS FOLLOWS OR PER LOCAL ORDINANCES: 120/208V, 3Ø - A-BLACK, B-BLUE, C-BLUE, NEUTRAL-WHITE, G-GREEN, 277/480V, 3Ø - A-BROWN, B-ORANGE, C-BLUE, NEUTRAL-GRAY, G-GREEN.

BLACK INSULATION IS ACCEPTABLE FOR #8 WIRE AND LARGER. CONDUCTOR ENDS SHALL BE WRAPPED WITH COLORED TAPE AS INDICATED ABOVE. IF NO WIRE SIZE IS INDICATED ON THE DRAWINGS FOR A BRANCH CIRCUIT, PROVIDE #12 AWG WIRE AND A 20A CIRCUIT BREAKER. CONTROL WIRING SHALL HAVE 600V INSULATION AND BE OF THE PROPER TYPE, SIZE AND NUMBER REQUIRED TO ACCOMPLISH SPECIFIED FUNCTION.

16210.03 - INSTALLATION
WIRE SHALL BE INSTALLED IN APPROVED RACEWAYS OR ENCLOSURES. WIRE IN CONDUIT SHALL RAN CONTINUOUS WITHOUT SPLICES OR TAPS. ALL SPLICES OR TAPS SHALL OCCUR IN APPROVED BOXES AND ENCLOSURES AND SHALL BE KEPT TO A MINIMUM, AND SHALL BE MADE WITH APPROVED SOLDERLESS CONNECTIONS. ALL SPLICES, TAPS AND JOINTS SHALL BE INSULATED PER THE NATIONAL ELECTRICAL CODE. ALL MATERIALS USED TO TERMINATE, SPLICE OR TAP CONDUCTORS SHALL BE DESIGNED FOR PROPER SIZE FOR, AND UL LISTED FOR THE SPECIFIC APPLICATION AND CONDUCTORS INVOLVED, AND SHALL BE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, USING THE MANUFACTURER'S RECOMMENDED TOOLS.

WHERE WIRE IS TO BE INSTALLED, BUT THE CONNECTION IS INDICATED "FUTURE" OR "BY OTHERS", THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 3 FEET OF "PIGTAIL" AT THE BOX. TAPE ALL CONDUCTOR ENDS AND COVER THE BOX. VOLTAGE DROP IN BRANCH CIRCUITS SHALL NOT EXCEED 2%. ALL BRANCH CIRCUITS SHALL HAVE EQUIPMENT GROUNDING CONDUCTORS AND SHALL BE SIZED PER NEC TABLE 250-95.

16210 - OUTLET BOXES, JUNCTION BOXES AND WIRING DEVICES/GUITERS
16210.01 - DESCRIPTION OF WORK
FURNISH AND INSTALL OUTLET BOXES, FLOOR BOXES, PULL BOXES, JUNCTION BOXES AND WIRING DEVICES AS SHOWN ON THE CONTRACT DOCUMENTS OR AS REQUIRED.

16210.02 - OUTLET/JUNCTION BOXES
PROVIDE WIRING DEVICES, FIXTURES AND SPECIAL SYSTEM DEVICES WITH OUTLET BOX. USE GALVANIZED STEEL BOXES CONFORMING TO UL STANDARD 514A FOR CONCEALED AND EXPOSED DRY LOCATIONS. ALL BOXES SHALL HAVE MATCHING COVER PLATES.

USE 1/16" THICK STEEL BOXES AND COVERS OF FORM AND DIMENSION ADAPTED TO ITS SPECIFIC USE AND LOCATION, KIND OF FIXTURE OR DEVICE TO BE USED AND NUMBER, SIZE AND ARRANGEMENT OF CONNECTION CONDUITS AND NUMBER OF WIRES IN OUTLET. ALL IN ACCORDANCE WITH THE NEC. ALL BOXES SHALL BE SET IN WALLS, COLUMNS, FLOORS, OR CEILING SO AS TO BE FLUSH WITH THE FINISHED SURFACE AND BE ACCURATELY SET AND RIGIDLY SECURED IN POSITION. PROVIDE PLASTER RINGS, EXTENSION RINGS AND MASONRY RINGS AS REQUIRED FOR FLUSH MOUNTING.

MANUFACTURERS: NATIONAL ELECTRICAL, APPLETON, STEEL CITY OR RACO
16210.03 - LARGE PULL BOXES
FURNISH PULL, TAP AND CABLE SUPPORT BOXES REQUIRED BY THE NEC FOR EXCESSIVE NUMBER OF 90 DEGREE CONDUIT BENDS, CONDUIT TAPS AND CABLE SUPPORTS.

BOX CONSTRUCTION PER NEC AND CONFORMING TO UL STANDARD #50. BOX TO BE MANUFACTURED WITH MINIMUM 12 GAUGE GALVANIZED STEEL. PROVIDE SEPARATE PULL BOX FOR EACH FEEDER.

BOXES LOCATED IN DAMP OR WET LOCATIONS SHALL BE WELDED CONSTRUCTION AND FINISHED WHITE INSIDE AND GRAY OUTSIDE WITH WATERPROOF PAINT. PROVIDE GASKETED DOOR AND CORNERS. PROVIDE RAIN DRIP SHIELDS. BOXES SHALL CARRY NEMA 3R (WEATHERPROOF) OR NEMA 4 (WATERIGHT) LABELS AS SPECIFIED.

ACCEPTABLE MANUFACTURERS: HOFFMAN, KEYSTONE, BURNS
16210.04 - CONDUIT BODIES
CONDUIT BODIES SHALL BE INSTALLED TO PROVIDE EASE OF CONDUCTORS AND TO PROVIDE NEAT APPEARANCE TO CONDUIT INSTALLATION, AND AS SHOWN ON THE DRAWINGS. CONDUIT BODIES SHALL BE CONSTRUCTED OF MALLEABLE IRON OR COPPER FREE

ALUMINUM CASTINGS. BODIES SHALL BE FINISHED WITH STANDARD DURABLE EXTERIOR COATINGS OF MANUFACTURER SPECIFIED. PROVIDE ROLLERS IN TYPE "C" AND TYPE "L" BODIES, 1-1/4" SIZE AND LARGER. PROVIDE GASKETED PLATED STEEL OR MALLEABLE IRON COVERS.

ACCEPTABLE MANUFACTURERS: CROUSE-HINDS, KILLARK, APPLETON
16210.05 - GUITERS (MIRWAYS)
#8" AND SMALLER - USE STANDARD ASSEMBLY CONSISTING OF CODE GAGE GALVANIZED OR PAINTED STEEL AND COMBINATION HINGED/SCREENED COVERS.

ACCEPTABLE MANUFACTURERS - SQUARE-D, GENERAL ELECTRIC, WALKER ELECTRIC, B&C STAMPING CO.
16210.06 - SURFACE METAL RACEWAYS
WHERE INDICATED ON THE DRAWINGS, WIRING SHALL BE RUN IN EXPOSED METAL RACEWAYS, COMPLETE WITH OUTLET BOXES AND FITTINGS. ALL CIRCUITS RUN IN SURFACE METAL RACEWAYS SHALL HAVE GROUND CONDUCTOR WITH GREEN INSULATION SIZED PER NEC, BUT NOT SMALLER THAN #12 AWG SCREW CONNECTED TO EACH OUTLET BOX.

ACCEPTABLE MANUFACTURERS - WIREMOLD, PANDUIT
16134 - PANELBOARDS
16134.01 - DESCRIPTION OF WORK
PROVIDE AND INSTALL LIGHTING AND POWER PANEL BOARDS, RATED FOR 600 VOLTS OR LESS, AS SPECIFIED HEREIN AND AS SHOWN OR INDICATED ON THE DRAWINGS AND SCHEDULES.

16134.02 - SUBMITTALS
PROVIDE SHOP DRAWINGS FOR EACH PANELBOARD. INCLUDE INDIVIDUAL DIAGRAM OF EACH PANELBOARD SHOWING ALL SPECIFIED REQUIREMENTS. IN ADDITION, SUBMITTALS SHALL INDICATE OVERALL PANELBOARD DIMENSIONS, INTERIOR DIMENSIONS, BUS CONFIGURATION, WIRE GUTTER DIMENSIONS, SHORT CIRCUIT RATING PANELBOARD AND OVERCURRENT DEVICES.

16134.03 - STANDARDS
CONSTRUCT PANELBOARDS IN ACCORDANCE WITH THE LATEST ADDITION OF THE FOLLOWING STANDARDS: UL STANDARDS NO. 50, 67, 98, 489, AND 493 NEMA PUBLICATION PB-1 NEC ARTICLE 384

PANELBOARD ASSEMBLY SHALL BE UL LABELED, AND LABELED AS SERVICE ENTRANCE EQUIPMENT WHERE USED FOR THAT PURPOSE. 16134.04 - BASIC PANELBOARD CONSTRUCTION
PANELBOARDS TO BE SAME MANUFACTURER AS OTHER DISTRIBUTION EQUIPMENT

PANELBOARDS, BUSSING AND OVERCURRENT DEVICE SHALL HAVE INTEGRATED EQUIPMENT FAULT RATING EQUAL TO OR GREATER THAN THE AVAILABLE FAULT CURRENT. BUSSING SHALL BE 98% CONDUCTIVITY COPPER SIZED TO NEC AND NEMA STANDARDS.

NEUTRAL BUSES SHALL BE COPPER AND SIZED FOR 100% ON THE SAME BASIS AS PHASE BUSSING AS DESCRIBED AND INSULATED FROM THE CABINET. PROVIDE 100% CAPACITY CONTINUOUS COPPER GROUND BUS IN EACH PANEL CABINET. GROUND BUSES SHALL BE BOLTED TO THE CABINET UNLESS SPECIFIED TO BE ISOLATED.

FURNISH PANELBOARDS WITH VOLTAGE, CURRENT, SHORT CIRCUIT RATING, SIZE AND MOUNTING AS INDICATED ON THE DRAWINGS AND SCHEDULES. IF THE DRAWINGS DO NOT STATE THE INTERRUPT RATING IT SHALL BE 100,000AIC.

16134.05 - POWER DISTRIBUTION PANELBOARDS (200A AND SMALLER)
POWER DISTRIBUTION PANELS TO BE SQUARE-D TYPE I-LINE OR APPROVED EQUAL. CIRCUIT BREAKERS SHALL BE BOLT-ON, THERMAL-MAGNETIC TYPE, QUICK-MAKE, QUICK-BREAK, ENCLOSURE COMPENSATED, OF SINGLE CONSTRUCTION, TRIP FREE ON FAULTS, THERMAL-INVERSE TIME DELAY ELEMENT AND MAGNETIC INSTANTANEOUS TRIP COIL. IN EACH UNGROUNDED PHASE CONDUCTOR, OR APPROVED (4) FOUR FUNCTION SOLID STATE TRIP UNIT. THE (4) FOUR FUNCTION SOLID STATE TRIP UNIT SHALL INCLUDE LONG TIME DELAY, SHORT TIME DELAY, INSTANTANEOUS AND GROUND FAULT.

AT A MINIMUM GROUND FAULT PROTECTION OF EQUIPMENT SHALL BE PROVIDED FOR SOLIDLY GROUND WIRE ELECTRICAL SERVICES FOR EACH SERVICE DISCONNECT RATED FOR 1000 AMPERES OR MORE PER NEC 230. PANEL CABINETS SHALL BE CODE GAUGE GALVANIZED STEEL BOXES WITH TURNED EDGES, REMOVABLE BARRIERS, WIRE CUTTERS ON ALL SIDES AND KNOCKOUTS FOR CONDUIT CONNECTIONS. CABINETS SHALL HAVE ONE PIECE FRONT AND SHALL HAVE HINGED KEY LOCKING DOORS.

16134.06 - LIGHTING AND APPLIANCE PANELBOARDS
LIGHTING AND APPLIANCE PANELBOARDS SHALL BE SQUARE-D TYPE NDDO OR NEHS OR APPROVED EQUAL. PANELBOARDS SHALL BE DESIGNED AS SHOWN ON THE DRAWINGS. NUMBER AND SIZE OF CIRCUIT BREAKERS IN EACH PANELBOARD SHALL BE AS SCHEDULED ON THE DRAWINGS.

BREAKERS SHALL BE THERMAL MAGNETIC TYPE, QUICK MAKE, QUICK BREAK, ENCLOSURE COMPENSATED, OF SINGLE CONSTRUCTION. TWO OR THREE POLE BREAKERS, WHERE CALLED FOR, SHALL BE SINGLE UNIT COMMON TRIP. BREAKERS SHALL BE BOLT-ON TYPE. CABINETS SHALL BE CONSTRUCTED OF ONE PIECE CODE GAUGE GALVANIZED STEEL. THE MOUNTING STUDS AND KNOCKOUTS FOR CIRCUIT CONNECTIONS AS REQUIRED. FRONTS SHALL BE ONE PIECE ON CODE GAUGE FURNITURE STEEL WITH ADJUSTABLE FASTENERS AND RECESSED DOORS FITTED WITH CONCEALED HINGES, FLUSH CATCH AND LOCK OF CABINETS SHALL BE SURFACE OR FLUSH MOUNTED AS INDICATED ON THE DRAWINGS. ALL FRONTS AND ALL SURFACE MOUNTED CABINETS SHALL HAVE RUSTPROOF PRIME COAT AND 2 FINISHED COAT OF ENAMEL OR LAQUER.

ALL BRANCH CIRCUITS TO PANELBOARDS SHALL BE CONNECTED IN A MANNER SO THAT LOADS ARE BALANCED OVER EACH PHASE AS EQUALLY AS POSSIBLE. THE BACK DOOR SHALL BE FITTED WITH A GLASS OR PLASTIC COVERED TYPE/WRITTEN SCHEDULE IDENTIFYING ALL BRANCH CIRCUITS.

BREAKERS USED AS SWITCHES FOR 120 OR 277 VOLT CIRCUITS SHALL BE APPROVED FOR THE PURPOSE AND MARKED "SMB". BREAKERS USED FOR PROTECTION OF HVAC EQUIPMENT SHALL BE EACH TYPE.

16134.07 - IDENTIFICATION
PERMANENTLY ATTACH NAMEPLATES AND CIRCUIT NUMBER TO EACH PANEL. PROVIDE EACH PANELBOARD WITH NAMEPLATE SHOWING PANEL DESIGNATION, VOLTAGE RATING AND PHASE.

LABEL SHALL BE ENGRAVED LAMINATED-PLASTIC NAMEPLATE. NAMEPLATES SHALL BE BLACK WITH 1/4" HIGH WHITE LETTERS UNLESS OTHERWISE SPECIFIED. 16134.08 - ACCEPTABLE MANUFACTURERS
SQUARE-D
SIEMENS
OUTLER-HAMMER
GENERAL ELECTRIC

16134.09 - INSTALLATION
MOUNT PANELBOARDS SECURELY TO BUILDING STRUCTURE WITH 3/8" MINIMUM DIAMETER GALVANIZED BOLTS AND INSERTS NUMBERED AS REQUIRED FOR THE SIZE OF THE PANEL, BUT NOT LESS THAN 4. MOUNT PANELBOARDS WITH CENTERLINE 4-6" APPROXIMATELY ABOVE FINISHED FLOOR WITH THE FINISH MAINTENANCE OF 2" TO 4" HANGERS. WHERE PANELS ARE MOUNTED ADJACENT, INSTALL THE TOP PANEL TRIM AT THE SAME HEIGHT ABOVE THE FLOOR. CLOSE ALL UNUSED OPENINGS.

MOUNT FEEDER PANELBOARDS TALLER THAN 66" ON 4" HIGH 2500# CONCRETE PAD AND BOLT TO THE WALL AND THE PAD WITH 1/2" DIAMETER BOLTS AND INSERTS. 16140 - SWITCHES AND RECEPTABLES
16140.01 - DESCRIPTION OF WORK
FURNISH AND INSTALL DEVICES AND ASSOCIATED DEVICE PLATES AS SHOWN ON THE DRAWINGS. ALL OUTLETS AND SWITCHES SHALL BE OF THE SAME MANUFACTURER. COLORS OF SWITCHES AND RECEPTABLES SHALL BE AS REQUESTED BY THE ARCHITECT.

STANDARD RECEPTABLES, UNLESS OTHERWISE NOTED, SHALL BE 3 WIRE GROUNDING TYPE, NEMA CONFIGURATION 5-20R, DUPLEX RECEPTABLE RATED AT 20 AMPS AT 125VAC. RECEPTABLES TO COMPLY WITH UL STANDARD 498 AND FEDERAL SPECIFICATION W-C-596.

GROUND-FAULT INTERRUPTER (GFI) RECEPTABLES: UL STANDARD 943, "GROUND FAULT INTERRUPTERS," FEED-THROUGH TYPE, WITH INTERNAL NEMA 5-20R DUPLEX RECEPTABLE, ARRANGE THE GFI RECEPTABLE TO PROTECT CONNECTED DOWNSTREAM RECEPTABLES ON THE SAME CIRCUIT AS SHOWN OR AS REQUIRED.

CONDUIT AND/OR CONNECTOR DEVICES: MATCHING LOCKING TYPE, PLUG AND RECEPTABLE BODY CONNECTOR, NEMA L5-20P AND L5-20R, HEAVY DUTY GRADE UNLESS OTHERWISE SPECIFIED.

PEND AND PUGO SETS: MATCH VOLTAGE AND CURRENT RATINGS AND THE NUMBER OF CONDUCTORS TO THE REQUIREMENTS OF THE EQUIPMENT BEING CONNECTED. THE CORD SHALL BE RUBBER INSULATED, STRANDED COPPER CONDUCTORS, WITH TYPE SOW-A JACKET.

SWITCHES: QUET TYPE A.C. SWITCHES, LISTED AND LABELED TO COMPLY WITH UL STANDARD 20 "GENERAL USE SNAP SWITCHES", AND FEDERAL SPECIFICATION W-S-996. MANUFACTURERS AS NOTED IN ELECTRICAL DEVICE SCHEDULE.

VERIFY EXACT TYPE CEILING AND RECESSING DEPTH OF RECESSED LUMINAIRES AND FURNISH SPECIFIC MOUNTING TRIMS AND ACCESSORIES REQUIRED. VERIFY PROPER VOLTAGE FOR EACH LUMINAIRE AND PROVIDE BALLASTS TO MATCH ACTUAL APPLIED VOLTAGE AS SHOWN ON DRAWINGS.

16140.03 - ACCEPTABLE MANUFACTURERS
PASS AND SEMOUR/LEGRAND
HUBBELL
LEVITON
BRYANT
EAGLE

16140.04 - DEVICE PLATES
FURNISH AND INSTALL ALL DEVICE COVER PLATES, 0.1" THICK SMOOTH PLASTIC COVER PLATES. VERIFY COLOR AND MATERIAL WITH THE ARCHITECT BEFORE INSTALLATION. SWITCH PLATES IN UNFINISHED ROOMS SHALL BE STAMPED STEEL PLATES, CADMIUM PLATED.

DEVICE PLATE SHALL BE MANUFACTURED BY THE DEVICE MANUFACTURER WHERE APPLICABLE.

FURNISH WEATHER PROOF DEVICES WITH INDIVIDUAL GASKETED ALUMINUM OR STAINLESS STEEL COVERS. 16140.05 - MULTI-OUTLET ASSEMBLIES
COMPLY WITH STANDARD UL-5 "SURFACE METAL RACEWAYS AND FITTINGS".

COMPONENTS OF ASSEMBLIES: PRODUCTS OF A SINGLE MANUFACTURER DESIGNED TO BE USED TOGETHER TO PROVIDE A COMPLETE MATCHING ASSEMBLY OF RACEWAYS AND RECEPTABLES. RACEWAY MATERIAL: METAL WITH MANUFACTURERS STANDARD CORROSION RESISTANT FINISH.

WIRE: NO. 12 AWG MINIMUM. ACCEPTABLE MANUFACTURERS
WIREMOLD G-3000 SERIES
EQUAL BY ISODUCT
EQUAL BY HUBBELL

16140.06 - INSTALLATION
INSTALL DEVICES VERTICAL 48" AFF FOR SWITCHES AND 18" AFF FOR RECEPTABLES UNLESS OTHERWISE SHOWN. DEVICES SHALL BE INSTALLED PLUMB AND SECURE ON ALL SIDES. INSTALL RECEPTABLES WITH GROUND SLOT DOWN.

16170 - DISCONNECTS (MOTOR CIRCUIT AND SEPARATE CIRCUIT BREAKERS)
16170.01 - DESCRIPTION OF WORK
FURNISH AND INSTALL SAFETY SWITCHES, DISCONNECTS AND SEPARATELY MOUNTED ENCLOSED CIRCUIT BREAKERS RATED TO 1200 AMPERES, 600 VOLTS AS SHOWN

16170.02 - STANDARDS
UL STANDARD 98
NEMA STANDARD 4S1-1983 FOR ENCLOSED SWITCHES
NEMA 4B1-1996 FOR MOLD CASE CIRCUIT BREAKERS AND SWITCHES

16170.03 - DISCONNECT SWITCHES
DISCONNECT SWITCHES SHALL BE HEAVY DUTY, RATED FOR 250 OR 600 VOLTS AS REQUIRED. SWITCHES SHALL BE QUICK-MAKE, QUICK-BREAK OPERATION AND HORSEPOWER RATED. THE OPERATING HANDLE SHALL BE INTERLOCKED WITH THE SWITCH DOOR TO PREVENT OPENING OF THE DOOR WITH THE SWITCH CLOSED. PROVIDE MECHANICAL OVERRIDE FOR AUTHORIZED PERSONNEL TO OPEN THE SWITCH DOOR WITHOUT OPERATING THE SWITCH HANDLE.

SWITCHES SHALL BE FUSIBLE OR NON-FUSIBLE AS SHOWN. FURNISH ONE TIME, DUAL ELEMENT, CLASS K5, REJECTION TYPE FUSES FOR EACH FUSIBLE POSITION, RATINGS AS SHOWN. FURNISH 3 SPARE FUSES FOR EACH RATING. FUSIBLE SWITCHES LARGER THAN 600 AMPS SHALL BE SUITABLE FOR CLASS L FUSES. FUSES SERVING PREDOMINANTLY MOTOR OR TRANSFORMER LOADS SHALL BE DUAL ELEMENT, TIME DELAY TYPE, OTHERWISE NON-TIME DELAY FAST ACTING TYPE IS REQUIRED. FUSES SHALL BE CURRENT LIMITING WITH 200,000AIC.

FURNISH SOLID NEUTRAL FOR EACH SWITCH BEING INSTALLED IN A CIRCUIT WHICH INCLUDES A NEUTRAL CONDUCTOR. FURNISH A GROUNDING PAD FOR CONNECTION OF CIRCUIT GROUND WIRES.

PROVIDE MECHANICAL LUGS AND POWER DISTRIBUTION CONNECTORS FOR NUMBER, SIZE, AND MATERIAL OF CONDUCTORS AS INDICATED ON THE DRAWINGS. ACCEPTABLE FUSE MANUFACTURERS
BUSMAN
LITTELFUSE
DISC SHAWMUT