SYMBOL LEGEND

DRAWING TITLE . . . . . FLOOR PLAN 1/4"=1'-0" | 1

SECTION . . . . . 1 / A5.0 — SECTION I.D. NUMBER; SHEET WHERE SECTION IS LOCATED

DETAIL (ENLARGED) . . . . . 1 / A5.0 — DETAIL I.D. NUMBER; SHEET WHERE SECTION IS LOCATED

ELEVATION . . . . . 8/A3.1 — SHEET WHERE SECTION IS LOCATED; ELEVATION I.D. NUMBER

CEILING HEIGHT . . . . . 10'-0" — CEILING HEIGHT ABOVE FINISHED FLOOR

DOOR . . . . . 1 — DOOR NUMBER DESIGNATION

WINDOW . . . . . A — WINDOW NUMBER DESIGNATION

FINISH MATERIAL . . . . . P-1 TRIM ONLY — FINISH DESIGNATION; COMMENTS, IF APPLICABLE

KEYED NOTES . . . . . 1 — KEYED NOTE DESIGNATION ON APPLICABLE SHEET

REVISIONS . . . # — ADDENDUM NUMBER; REVISED AREA CLOUDED

ELEVATION HEIGHT . . . . T.O. SLAB 100'-0" — REFERENCE POINT; ELEVATION HEIGHT

EQUIPMENT . . . . . A — EQUIPMENT NUMBER/ LETTER DESIGNATION

WALL TYPE . . . . . A — WALL TYPE LETTER

LIST OF CONTACTS

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GENERAL PROJECT NOTES

1. APPROVED PLANS SHALL BE KEPT IN A PLAN BOX AND SHALL NOT BE USED BY WORKMEN. ALL CONSTRUCTION SETS SHALL REFLECT SAME INFORMATION. CONTRACTOR SHALL MAINTAIN ONE COMPLETE SET OF PLANS ON THE PREMISES IN GOOD CONDITION AT ALL TIMES. THIS SHALL INCLUDE ALL ADDENDA AND CHANGE ORDERS.

2. THE CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO STARTING ANY WORK AND SHALL BE RESPONSIBLE FOR ALL WORK AND MATERIALS INCLUDING THOSE FURNISHED BY SUBCONTRACTORS AND OWNER.

3. GENERAL CONTRACTOR TO REFER TO THESE DOCUMENTS AS WELL AS SPECIFICATIONS FOR IDENTIFICATION OF ALL OWNER SUPPLIED ITEMS. ALL ITEMS NOT MARKED 'BY OWNER' OR 'N.I.C.' (NOT IN CONTRACT) ARE TO BE SUPPLIED BY GENERAL CONTRACTOR. UNLESS NOTED OTHERWISE, ALL ITEMS ARE TO BE INSTALLED BY GENERAL CONTRACTOR.

4. THE TERM "WORK" AS USED IN THESE NOTES SHALL INCLUDE ALL PROVISIONS AS DRAWN OR SPECIFIED IN THESE DOCUMENTS AS WELL AS ALL OTHER PROVISIONS SPECIFICALLY INCLUDED BY THE OWNER IN THE FORM OF DRAWINGS, SPECIFICATIONS, AND WRITTEN INSTRUCTIONS AND APPROVED BY THE ARCHITECT.

5. BEFORE SUBMITTING A BID, THE CONTRACTOR SHALL VISIT THE PREMISES AND FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND THE EXTENT OF WORK REQUIRED TO COMPLETE THE PROJECT.

6. BEFORE CONSTRUCTION BEGINS, THE CONTRACTOR SHALL VISIT THE SITE TO VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS AND SHALL NOTIFY THE ARCHITECT, IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK AND SHALL BE RESPONSIBLE FOR SAME.

7. IF THE CONTRACT DRAWINGS ARE FOUND TO BE UNCLEAR, AMBIGUOUS OR CONTRADICTORY, THE CONTRACTOR MUST REQUEST CLARIFICATION FROM THE ARCHITECT IN WRITING BEFORE PROCEEDING WITH THAT PART OF THE WORK.

8. THE ARCHITECT SHALL BE AVAILABLE TO VISIT THE SITE WHEN REQUESTED. IF A CONDITION EXISTS THAT REQUIRES OBSERVATION OR ACTION BY THE ARCHITECT OR ENGINEERS, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ARCHITECT.

9. CONTRACTOR SHALL BE FAMILIAR WITH PROVISIONS OF ALL APPLICABLE CODES AND SHALL INSURE THE COMPLIANCE OF THE WORK WITH ALL LOCAL, STATE AND FEDERAL CODES. IN THE EVENT OF CONFLICT BETWEEN LOCAL, STATE AND NATIONAL CODES, THE MORE STRINGENT SHALL GOVERN. BEFORE COMMENCING WORK NOT SHOWN IN DOCUMENTS, BUT REQUIRED TO ACHIEVE FULL COMPLIANCE WITH CODES, CONTRACTOR SHALL NOTIFY OWNER AND ARCHITECT.

10. THESE DOCUMENTS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. SAFETY, CARE OF ADJACENT PROPERTIES DURING CONSTRUCTION, COMPLIANCE WITH STATE AND FEDERAL REGULATIONS REGARDING SAFETY AND COMPLIANCE WITH REQUIREMENTS SPECIFIED IN THE OWNER/CONTRACTOR CONTRACT IS, AND SHALL BE, THE CONTRACTOR'S RESPONSIBILITY.

11. CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES AND SAFETY PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK.

12. DO NOT SCALE DRAWINGS. USE WRITTEN DIMENSIONS FOR ALL MEASUREMENTS. ALL DIMENSIONS ARE TO FACE OF STUD UNLESS OTHERWISE NOTED.

13. OWNER SHALL PAY ALL TAXES, SECURE BUILDING PERMIT AND PAY ALL FEES INCURRED IN THE COMPLETION OF THE PROJECT, INCLUDING BUT NOT LIMITED TO BUILDING PERMITS, WATER, ELECTRIC AND TELEPHONE SERVICE CONNECTION, CERTIFICATE OF OCCUPANCY SURVEY'S AND INSPECTIONS.

14. SCOPE OF WORK. THE CONTRACTOR SHALL INCLUDE AND PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, TRANSPORTATION AND PAY ALL EXPENSES INCURRED IN THE PROPER COMPLETION OF WORK UNLESS SPECIFICALLY NOTED TO BE THE WORK OF OTHERS. CONTRACTOR SHALL PERFORM ALL WORK NECESSARY FOR PRODUCING A COMPLETE, HABITABLE PROJECT, INCLUDING BUT NOT LIMITED TO SITE WORK, ARCHITECTURAL, ELECTRICAL, PLUMBING AND HVAC.

15. THE BID PRICES SHALL INCLUDE EVERYTHING NECESSARY OR PROPER FOR PERFORMING AND COMPLETING THE WORK REQUIRED AS INDICATED BY THE PLANS AND SPECIFICATIONS, TO PROVIDE FINISHED WORK. ANYTHING OMITTED THEREFROM WHICH IS CLEARLY NECESSARY FOR THE COMPLETION OF THE WORK OR ITS APPURTENANCE SHALL BE CONSIDERED A PORTION OF THE WORK ALTHOUGH NOT DIRECTLY SPECIFIED OR SHOWN ON THE DRAWINGS.

16. INSURANCE: WORKMEN'S COMPENSATION, AS REQUIRED BY LAW, AND PUBLIC LIABILITY SHALL BE CARRIED BY THE CONTRACTOR.

17. GUARANTEE: THE CONTRACTOR SHALL UNCONDITIONALLY GUARANTEE ALL MATERIALS, AND WORKMANSHIP FURNISHED OR INSTALLED BY HIM OR HIS SUBCONTRACTORS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE AND SHALL REPLACE ANY DEFECTIVE WORK WITHIN THAT PERIOD WITHOUT EXPENSE TO THE OWNER AND PAY FOR ALL DAMAGES TO OTHER PARTS OF THE BUILDING RESULTING FROM DEFECTIVE WORK OR ITS REPAIR. THE CONTRACTOR SHALL REPLACE DEFECTIVE WORK WITHIN TEN (10) DAYS AFTER IT IS BROUGHT TO HIS ATTENTION.

18. PROTECTION: THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS WORK AND THAT OF HIS SUBCONTRACTORS FOR LOSSES AND DAMAGES TO EQUIPMENT, TOOLS AND MATERIAL USED IN CONJUNCTION WITH THE WORK AND FOR ACTS OF HIS EMPLOYEES.

19. CONTRACTOR IS TO PROVIDE TO THE OWNER A LIST OF ALL SUBCONTRACTORS USED, COMPLETE WITH ADDRESSES, PHONE NUMBERS AND COPIES OF ALL WARRANTIES.

20. THE TERM "CONTRACTOR" AS USED IN THESE NOTES SHALL REFER TO THE GENERAL CONTRACTOR OR TO THE SUBCONTRACTORS. THE OWNER MAY ELECT TO CONTRACT DIRECTLY WITH A SUBCONTRACTOR FOR ANY PART OF THE WORK.

NATIONAL ACCOUNT
"NATIONAL ACCOUNT" - OWNER HAS ENTERED NATIONAL ACCOUNT AGREEMENTS WITH VENDORS FOR SOME MATERIALS AND PRODUCTS. DEVELOPERS, LANDLORDS AND THEIR ARCHITECTS AND CONTRACTORS SHALL USE THESE VENDORS, WITHOUT SUBSTITUTION, FOR ALL PRODUCTS IDENTIFIED UNDER THE NATIONAL ACCOUNTS PROGRAM.

FIRE DEPARTMENT REQUIRED NOTES IF SPRINKLER EXISTS

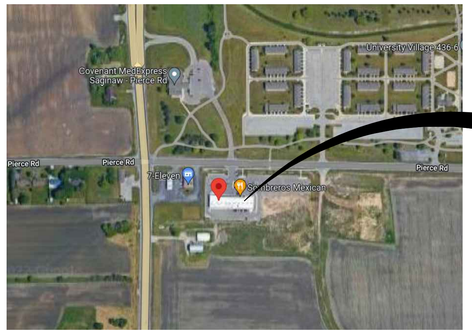
1. 2A:10B:C FIRE EXTINGUISHERS SHALL BE PROVIDED IN THE DINING AREAS AND A K CLASS EXTINGUISHERS SHALL BE WITHIN 30 FEET OF COOKING EQUIPMENT. MOUNTING HEIGHT SHALL NOT EXCEED 48" AFF TO THE TOP OF EXTINGUISHER AND TRAVEL DISTANCE TO REACH ONE SHALL NOT EXCEED 75 FEET.
2. DECORATIVE MATERIALS, INCLUDING DRAPES AND HANGINGS, MUST BE NONCOMBUSTIBLE, FLAME RESISTANT OR TREATED WITH A FLAME RETARDANT.
3. GENERAL CONTRACTOR TO ADD SMOKE DETECTOR IN THE DUCTWORK.
4. GENERAL CONTRACTOR IS RESPONSIBLE FOR ENTIRE FIRE SPRINKLER SYSTEM, INCLUDING SUBMITTAL AND APPROVAL FROM THE LOCAL FOR FIRE DEPARTMENT.
5. FIRE SPRINKLER SYSTEM SHALL BE INSTALLED, INSPECTED, AND TESTED IN ACCORDANCE WITH LOCAL JURISDICTION. PLANS AND SPECIFICATIONS SHALL BE SUBMITTED SEPARATELY TO THE FIRE DEPARTMENT AFTER THE BUILDING PERMIT IS ISSUED.
6. THIS PLAN REVIEW OR APPROVAL ENCOMPASSES THE TENANT IMPROVEMENT PLANS ONLY. FIRE SPRINKLER SYSTEM(S), ALARM SYSTEM(S), UNDERGROUND FIRE LINES OR ANY OTHER FIRE PROTECTION SYSTEM OR REQUIRED FIRE DEPARTMENT PERMIT(S), REQUIRES A SEPARATE PLAN SUBMITTAL AND ARE NOT ENCOMPASSED IN THIS PLAN REVIEW OR APPROVAL. A SEPARATE PLAN SUBMITTAL IS REQUIRED PRIOR TO THE COMMENCEMENT OF ANY WORK.
7. IF ADDITIONS OF WALLS AND/OR OTHER TENANT IMPROVEMENTS OBSTRUCT OR EFFECT COVERAGE OR PERFORMANCE OF THE FIRE SPRINKLER SYSTEM, FIRE ALARM SYSTEM AND/OR IF ANY MODIFICATIONS TO THE FIRE SPRINKLER SYSTEM, FIRE ALARM SYSTEM IS NECESSARY, FIRE SPRINKLER, FIRE ALARM TENANT IMPROVEMENT PLANS SHALL BE SUBMITTED TO THE LOCAL FIRE DEPARTMENT FOR APPROVAL PRIOR TO INSTALLATION OR ALTERATION(S).
8. COMPLETE FIRE ALARM SYSTEM PLANS SHALL BE SUBMITTED SEPARATELY TO THE FIRE DEPARTMENT FOR REVIEW AND APPROVAL. INSTALLATION WILL BE IN ACCORDANCE PRIOR TO FINAL APPROVAL OF THE SYSTEM.

DICKEY'S BARBECUE PIT

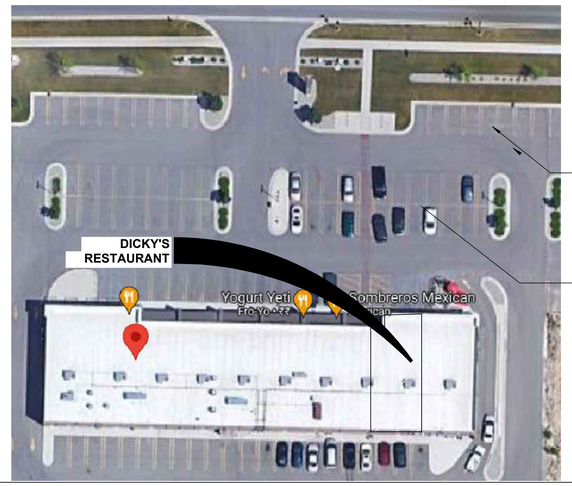
STORE#: MI-2197

2903 PIERCE ROAD
SUITE 109
SAGINAW, MI 48604

SITE LOCATION MAP



AREA LOCATION MAP



SCOPE OF WORK

TENANT FINISH OUT OF AN EXISTING LEASE SPACE. IMPROVEMENTS SHALL INCLUDE COMPLETE FINISH OUT OF THE INTERIOR TO INCLUDE NEW NON-LOAD BEARING WALLS, CEILING, FLOOR FINISHES, MILLWORK, SEATING MECHANICAL, ELECTRICAL AND PLUMBING.

DEFERRED SUBMITTAL - UNDER SEPARATE PERMIT & CONTRACT

EXTERIOR SIGNAGE

PATIO EXPANSION & GENERAL SITE WORK

Sheet List

Sheet Number	Sheet Name
GENERAL	
T1.0	COVER SHEET
T1.1	EGRESS FLOOR PLAN
T1.2	ACCESSIBILITY GUIDELINES
ARCHITECTURAL	
D1.0	DEMOLITION FLOOR AND REFLECTED CEILING PLAN
A1.0	DIMENSIONED AND NOTED FLOOR PLAN
A1.1	FLOOR FINISH PLAN AND SCHEDULES
A1.2	REFLECTED CEILING PLAN & SCHEDULES
A1.3	ENLARGED FLOOR PLANS AND ELEVATIONS
A2.0	EXTERIOR ELEVATIONS
A2.1	INTERIOR ELEVATIONS
A3.0	INTERIOR DETAILS
A3.1	CEILING DETAIL
A4.0	DOOR & HARDWARE SCHEDULES
KITCHEN	
K1.0	EQUIPMENT PLAN & SCHEDULE
K1.1	EQUIPMENT SCHEDULE
STRUCTURAL	
S1.1	G.S.N. AND DETAILS
S2.0	ROOF FRAMING PLAN
MECHANICAL	
M0.0	MECHANICAL SCHEDULES, LEGEND & SPECIFICATIONS
M0.1	MECHANICAL SCHEDULES, LEGEND & SPECIFICATIONS
M1.0	MECHANICAL PLAN
M2.0	MECHANICAL DETAILS
M3.0	HOOD DRAWINGS
M3.1	HOOD DRAWINGS
M3.2	HOOD DRAWINGS
M3.3	HOOD DRAWINGS
M3.4	HOOD DRAWINGS
M3.5	HOOD DRAWINGS
PLUMBING	
P0.0	PLUMBING NOTES,SCHEDULES,AND SPECIFICATIONS
P1.0	PLUMBING PLANS
P2.0	PLUMBING RISER DIAGRAMS
P3.0	PLUMBING DETAILS
ELECTRICAL	
E0.0	ELECTRICAL LEGEND AND NOTES
E0.1	ELECTRICAL SPECIFICATIONS
E1.0	ELECTRICAL POWER PLANS
E1.1	ELECTRICAL LIGHTING PLAN
E2.0	ELECTRICAL DETAILS
E3.0	ELECTRICAL ONE-LINE AND PANEL SCHEDULES
FIRE PROTECTION	
FP1.0	FIRE PROTECTION PLAN
SPECIFICATIONS	
SP-1.0	SPECIFICATIONS
SP-1.1	SPECIFICATIONS
SP-1.2	SPECIFICATIONS
SP-1.3	SPECIFICATIONS

CODE INFORMATION

BUILDING CODE:	2015 MICHIGAN BUILDING CODE: 2015 IBC W/ AMENDMENTS
MECHANICAL CODE:	2015 MICHIGAN MECHANICAL CODE: 2015 IMC W/ AMENDMENTS
PLUMBING CODE:	2018 MICHIGAN PLUMBING CODE: 2018 IPC W/ AMENDMENTS
ELECTRICAL CODE:	2017 MICHIGAN ELECTRICAL CODE: 2017 NEC / NFPA 70 W/ AMENDMENTS
ENERGY CODE:	2015 MICHIGAN ENERGY CODE: 2015 IECC W/AMENDMENTS / COMMERCIAL BUILDINGS SHALL COMPLY WITH THE REQUIREMENTS OF ANSI/ASHRAE/IESNA 90.1-2013
REHAB. CODE:	2015 MICHIGAN REHAB. CODE: 2015 IEBC W/ AMENDMENTS
ACCESSIBILITY CODE:	2010 ADA STANDARDS

BUILDING SQUARE FOOTAGE

LEASE AREA:	1,954 SQ. FT.

PROJECT INFORMATION

CONSTRUCTION TYPE	V-B
FULLY SPRINKLERED	YES
OCCUPANCY	ASSEMBLY -A-2

JLL Architecture, LLC
200 East Randolph Drive
Chicago, IL 60601

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tel +1 480 626 6304
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DALLAS, TX 75205
972.248.9899

SEAL

07/19/2022

DICKEY'S - SAGINAW
2903 PIERCE ROAD
SUITE 109
SAGINAW, MI 48604

CLIENT : SMOKING CARDINALS, LLC
1113 CARRIE LYNN DRIVE
SAGINAW, MI 48706

MI-2197

DATE	DESCRIPTION
07/13/22	ISSUED FOR PERMIT

DATE	DESCRIPTION

SHEET TITLE

COVER SHEET

SHEET NUMBER:

T1.0

JLLA PROJECT NUMBER:
DBQ-103

07/13/2022 - ISSUED FOR PERMIT

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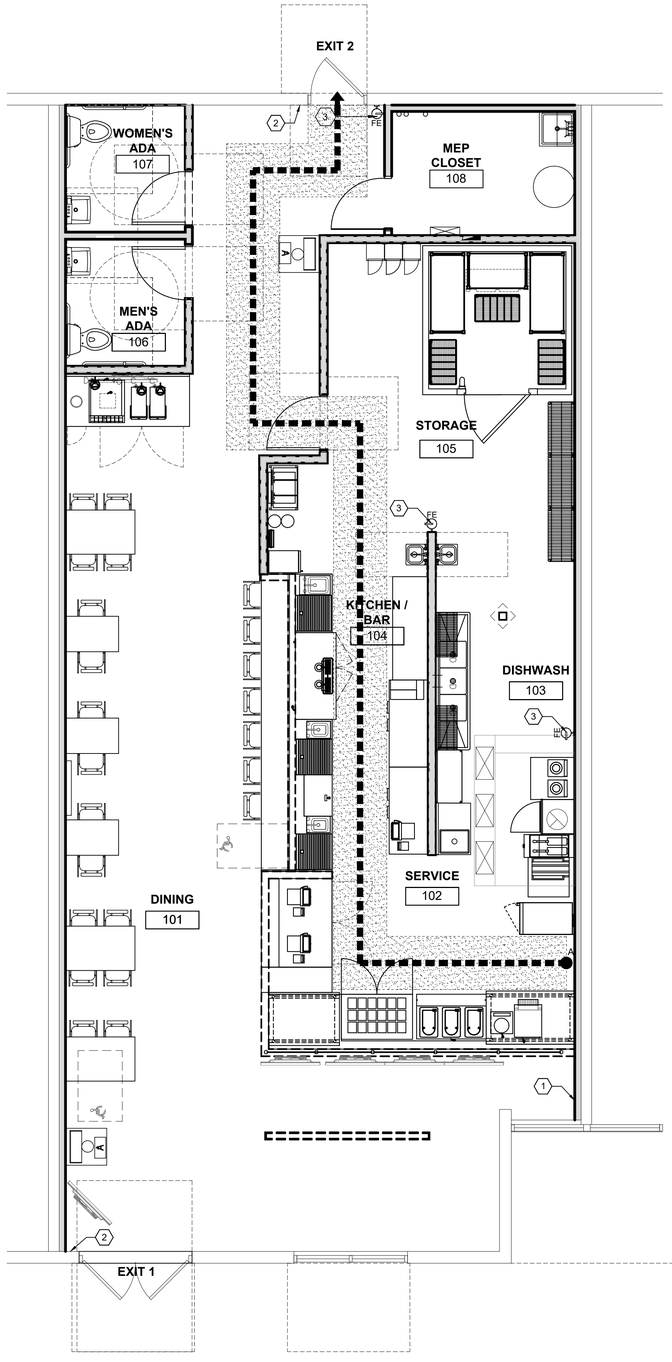

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EGRESS FLOOR PLAN
1/4" = 1'-0"

1

BUILDING DATA

LEASE AREA	1,954	SQ. FT.

OCCUPANCY LOAD CALCULATION

USE	SQUARE FOOTAGE	OCCUPANT LOAD FACTOR	OCCUPANCY AMOUNT
DINING (A-2):	545	15 OCC / S.F. (NET)	37
DINING (A-2 STANDING/QUEING):	160	5 OCC / S.F. (NET)	32
DINING (A-2 BOOTHS / LF):		2 OCC / L.F.	0
KITCHEN (A-2):	665	1 OCC /200 S.F. (GROSS)	4
STORAGE (S-2 MISC.):	152	1 OCC /300 S.F. (GROSS)	1
BUSINESS (OFFICE):	0	1 OCC /100 S.F. (GROSS)	0
ASSEMBLY (RESTROOM & HALLWAY) :	303	0 OCC (GROSS)	0
N/A (PERIMETER WALLS):	129	0 OCC (GROSS)	0
TOTAL:	1,954		74

EGRESS LAYOUT NOTES

1. TACTILE EXIT SIGNS SHALL BE PROVIDED AT THE FOLLOWING LOCATIONS.SEE T1.2

A) EACH GRADE LEVEL EXTERIOR DOOR SHALL BE IDENTIFIED BY A TACTILE EXIT WITH THE WORD "EXIT"

B) EACH EXIT, EXIT ACCESS DOOR FROM AN INTERIOR ROOM OR AREA TO A CORRIDOR OR HALLWAY THAT IS REQUIRED TO HAVE A VISUAL EXIT SIGN, SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS, "EXIT ROUTE"

EGRESS CALCULATION

REQUIRED 74 OCC X 0.2/ PERSON	14.8	IN.
PROVIDED 36" + 72"	108"	IN.

TOTAL OCCUPANNT LOAD =74
MAXIMUM COMMMON PATH OF TRAVEL ALLOWED =75'-0"
MAXIMUM COMMON PATH OF TRAVEL PROVIDED =70'-11"
NUMBER OF EXITS REQUIRED = 2
NUMBER OF EXITS PROVIDED = 2

MAXIMUM EXIT TRAVEL DISTANCE ALLOWED =250'-0" (SPRINKLERED)
MAXIMUM EXIT TRAVEL DISTANCE PROVIDED =70'-11" (SPRINKLERED)

FURNISHING NOTES

1	HEIGHT OF TABLES AND COUNTERS SHALL BE 28" MINIMUM-34" MAXIMUM.
2	MANEUVERING CLEARANCE SHALL BE 30"X48".
3	KNEE CLEARANCE SHALL BE 27" HIGH, 19" DEEP AND 30" WIDE.

SEATING COUNT

2 TOPS TABLES x	3	=	6
4 TOPS TABLES x	3	=	10+1 ACCESIBLE = 11
8 TOPS TABLES x	0	=	0
BAR	16LF	=	7+1 ACCESSIBLE = 8
TOTAL DINING:			25

ACCESSIBLE SEATING REQUIRED

25	x	.05	=	2	SPACES REQ'D (2 PROVIDED)

KEY NOTES

1	OCCUPANCY LOAD SIGN, VERIFY LOCATION WITH FIRE MARSHALL PRIOR TO INSTALL. SEE 3/T1.2
2	TACTILE "EXIT ROUTE" SIGN, VERIFY LOCATION WITH FIRE MARSHALL PRIOR TO INSTALL.
3	2A:K FIRE EXTINGUISHER 2.5 GALLON- WALL MOUNTED.

GENERAL NOTE

1	ADDRESS NUMBER SHALL BE MINIMUM OF 6 INCHES (152.4 MM) HIGH WITH A MINIMUM STROKE WITH OF .5 INCH (12.7MM).

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fax +1 480 401 3602

CORPORATE:

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972.248.9899

SEAL

STATE OF MICHIGAN
RUSSELL M. BAUMANN
ARCHITECT
No. 1301060729
LICENSED ARCHITECT

07/19/2022

DICKEY'S - SAGINAW
2903 PIERCE ROAD
SUITE 109
SAGINAW, MI 48604

CLIENT : SMOKING CARDINALS, LLC
1113 CARRIE LYNN DRIVE
SAGINAW, MI 48706

DICKEY'S BARBECUE PIT est. 1941

MI-2197

DATE	DESCRIPTION
07/13/22	ISSUED FOR PERMIT

	DATE	DESCRIPTION
1		

SHEET TITLE

EGRESS FLOOR PLAN

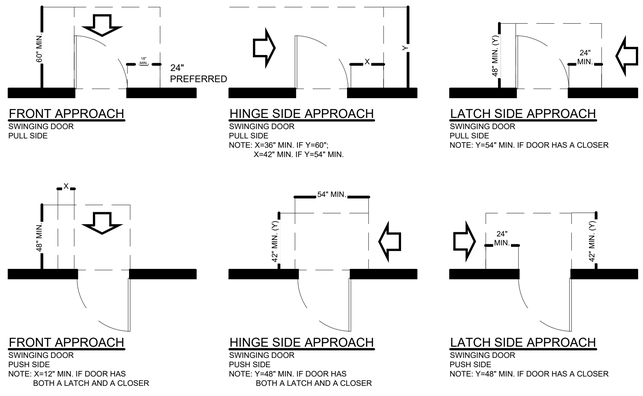
SHEET NUMBER:

T1.1

JLLA PROJECT NUMBER:

DBQ-103

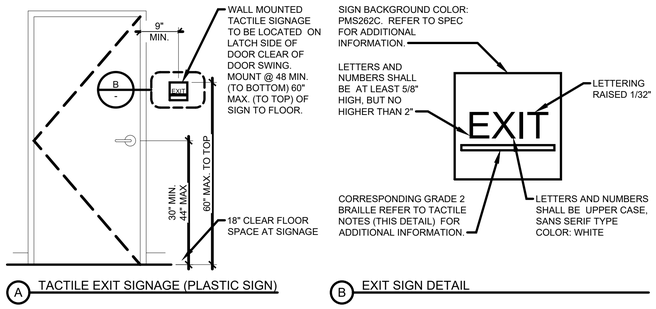
07/13/2022 - ISSUED FOR PERMIT



MANEUVERING CLEARANCES AT DOORS. | 2

NOTE:
1. TACTILE SIGNAGE SHALL BE ALLOWED ON THE PUSH SIDE OF A DOOR WHEN THE FOLLOWING CONDITIONS EXIST: DOOR HAS A CLOSER, DOOR DOES NOT HAVE A HOLD OPEN DEVICE THAT PREVENTS IT FROM CLOSING.

2. REFER TO ACCESSIBLE SIGNAGE TABLE ON SHEET A401



TACTILE EXIT SIGNAGE REQUIREMENTS

1. EACH GRADE-LEVEL EXTERIOR DOOR SHALL BE IDENTIFIED BY A TACTILE SIGN WITH THE WORD "EXIT".
2. EACH EXIT DOOR THAT LEADS DIRECTLY TO A GRADE-LEVEL EXTERIOR EXIT BY MEANS OF AN EXIT ENCLOSURE OR AN EXIT PASSAGEWAY IS IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS, "EXIT ROUTE".
3. EACH EXIT DOOR THAT LEADS DIRECTLY TO A GRADE-LEVEL EXTERIOR EXIT BY MEANS OF A STAIRWAY OR RAMP IS IDENTIFIED BY A TACTILE EXIT SIGN THAT STATES "EXIT STAIR DOWN", "EXIT RAMP DOWN", "EXIT STAIR UP" OR "EXIT RAMP UP", AS APPROPRIATE.
4. EACH EXIT ACCESS DOOR FROM AN INTERIOR ROOM OR AREA TO A CORRIDOR OR HALLWAY THAT IS REQUIRED TO HAVE A VISUAL EXIT SIGN IS IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS, "EXIT ROUTE".
5. EACH EXIT DOOR THROUGH A HORIZONTAL EXIT SHALL BE IDENTIFIED BY A SIGN WITH THE WORDS, "TO EXIT".
6. LETTERS ON SIGNS ARE RAISED 1/32", SANS SERIF UPPERCASE CHARACTERS AND ARE ACCOMPANIED BY GRADE 2 BRAILLE.
7. RAISED CHARACTERS ARE BETWEEN 5/8" AND 2" HIGH.
8. BRAILLE DOTS ARE 1/10" ON CENTER IN EACH CELL WITH 2/10" SPACE BETWEEN CELLS, MEASURED FROM THE SECOND COLUMN OF DOTS IN THE FIRST CELL TO THE FIRST COLUMN OF DOTS IN THE SECOND CELL. [NOTE: CA AND OTHER JURISDICTIONS ONLY]
9. BRAILLE DOTS ARE RAISED A MINIMUM OF 1/40" ABOVE THE BACKGROUND.
10. CHARACTERS AND BACKGROUND OF SIGNS IS EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH.
11. CHARACTERS CONTRAST WITH THEIR BACKGROUND (LIGHT CHARACTERS ON A DARK BACKGROUND, OR DARK CHARACTERS ON A LIGHT BACKGROUND.
12. LETTERS ON SIGNS HAVE A WIDTH-TO-HEIGHT RATIO BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH-TO-HEIGHT BETWEEN 1:5 AND 1:10.
13. SIGNS ARE TO BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. (AT DOUBLE LEAF DOORS AND WHEN THERE IS NO WALL SPACE AT THE LATCH SIDE, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT.)
14. MOUNTING HEIGHT IS 60" MAX. FROM THE FINISHED FLOOR TO THE TOP OF THE SIGN.
15. MOUNTING LOCATION ALLOWS A PERSON TO APPROACH WITHIN 3" OF THE SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR.

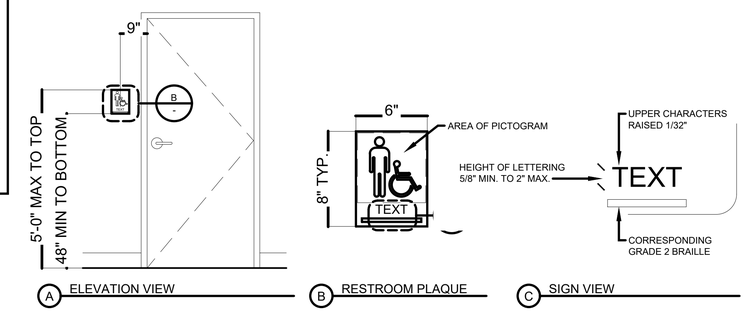
TACTILE EXIT SIGNAGE | 3

NOTE:
1. ACCESSIBILITY SIGNAGE: PROVIDE ACRYLIC REVERSE SILK SCREENED SIGNS WITH INTERNATIONAL SYMBOL OF ACCESSIBILITY, RAISED LETTERS, AND BRAILLE, AT ACCESSIBLE TOILET FACILITIES; ONE FOR EACH SEX OR ONE UNISEX.

2. LETTERS AND NUMBERS ON SIGNS SHALL BE RAISED CONTRASTING IN COLOR, AND HAVE A WIDTH-TO-HEIGHT RATIO OF BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH-TO-HEIGHT RATIO BETWEEN 1:5 AND 1:10, AND RAISED 1/32" MIN. AND BE ACCOMPANIED BY BRAILLE RAISED LETTERING.

3. WHERE PERMANENT SIGNAGE IS PROVIDED FOR ROOMS AND SPACES, SIGNAGE AS DESCRIBED ABOVE SHALL BE PROVIDED ON THE STRIKE SIDE OF THE DOOR.

4. SEE SPECIFICATIONS FOR SIGNAGE MANUFACTURER & MOUNTING.



RESTROOM SIGNAGE | 1

JLL Architecture, LLC

200 East Randolph Drive
Chicago, IL 60601

51 West Third St, # 201
Tempe, AZ 85286
tel +1 480 626 6304
fax +1 480 401 3602

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DICKEY'S BARBECUE RESTAURANT, INC.
4514 COLE AVENUE, SUITE 1100
DALLAS, TX 75205
972.248.9899

SEAL

STATE OF MICHIGAN
RUSSELL M. BAUMANN
ARCHITECT
No. 1301060729
LICENSED ARCHITECT
07/19/2022

DICKEY'S - SAGINAW
2903 PIERCE ROAD
SUITE 109
SAGINAW, MI 48604

CLIENT : SMOKING CARDINALS, LLC
1113 CARRIE LYNN DRIVE
SAGINAW, MI 48706

DICKEY'S BARBECUE PIT est. 1941

MI-2197

DATE	DESCRIPTION
07/13/22	ISSUED FOR PERMIT

	DATE	DESCRIPTION

SHEET TITLE

ACCESSIBILITY GUIDELINES

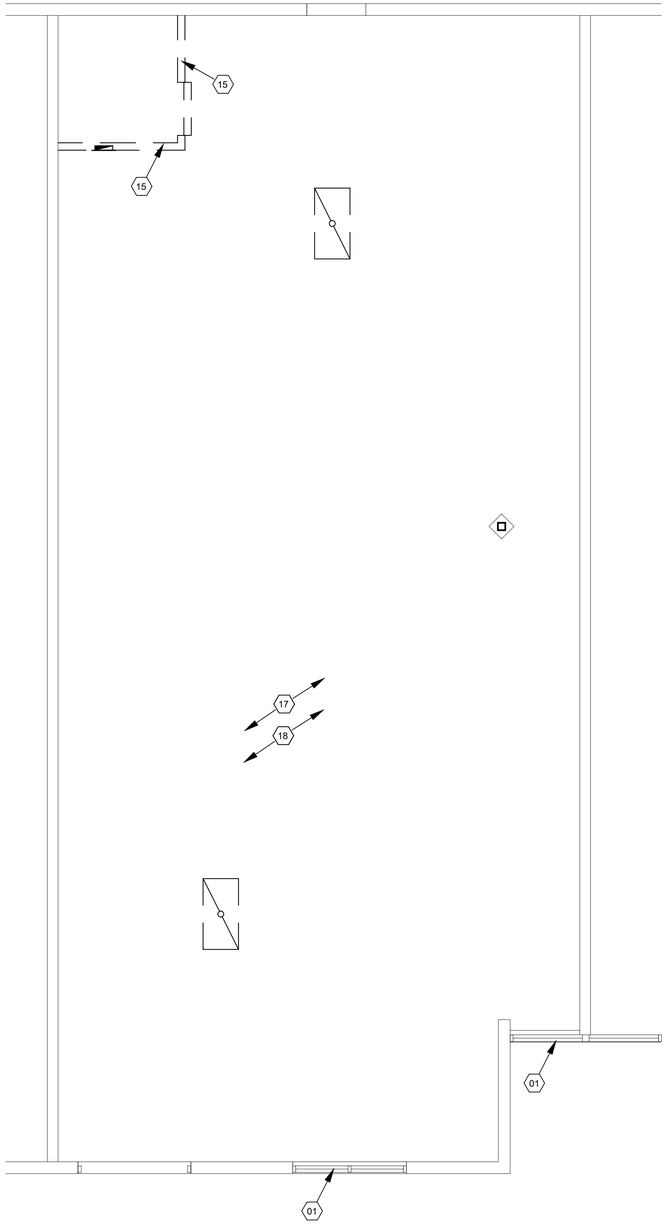
SHEET NUMBER:

T1.2

JLLA PROJECT NUMBER:

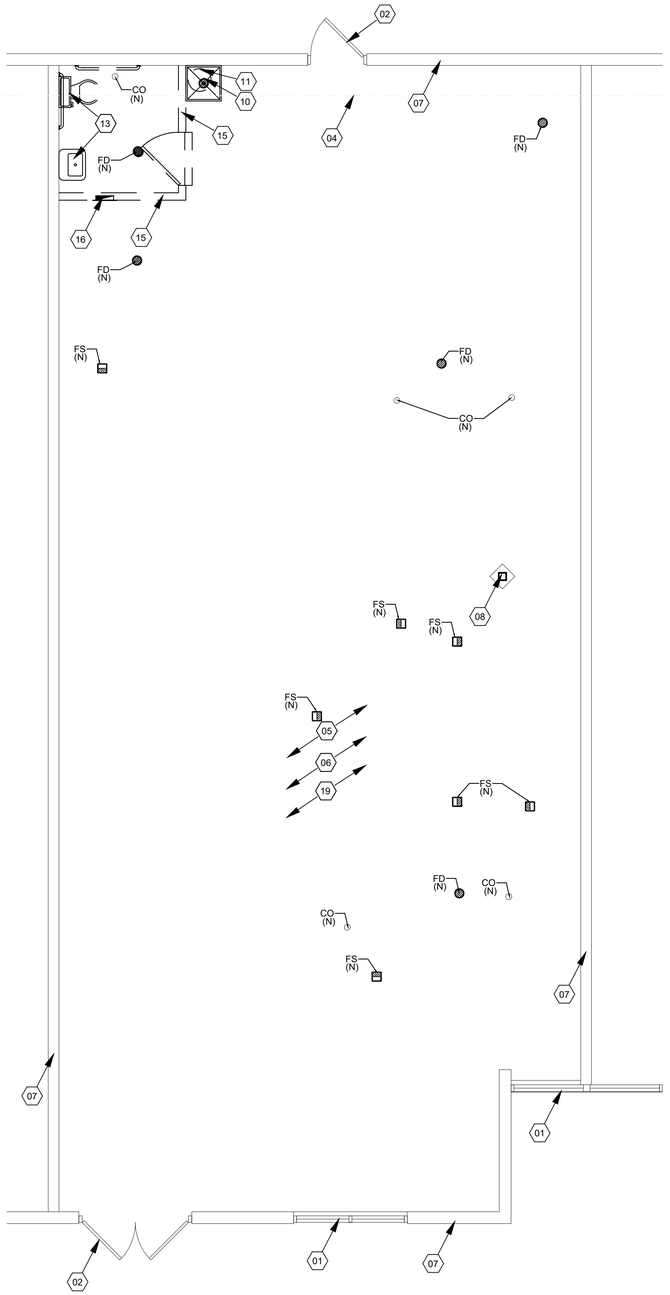
DBQ-103

07/13/2022 - ISSUED FOR PERMIT



DEMOLITION REFLECTED CEILING PLAN
1/4" = 1'-0"

2



DEMOLITION PLAN
1/4" = 1'-0"

1

GENERAL NOTES

1	THIS AND ANY OTHER DEMOLITION DRAWINGS ARE NOT INTENDED TO BE ALL INCLUSIVE NOT TO DEFINE THE SLOPE OF WORK OF ALL DEMOLITION WORK REQUIRED FOR THIS PROJECT. DEMOLITION DRAWINGS ARE SHOWN ONLY TO AID THE CONTRACTOR IN PREPARING THE BID AND PERFORMING THE WORK. CONTRACTOR SHALL EXAMINE ALL CONSTRUCTION DOCUMENTS AND VISIT THE SITE DURING BIDDING AS REQUIRED TO DETERMINE THE TOTAL EXTENTS AND SCOPE OF THE DEMOLITION PORTION OF THIS WORK. ALL ITEMS ELECTRICAL, HVAC, PLUMBING, STRUCTURAL FINISH, ETC. THAT ARE NOT REQUIRED TO REMAIN, SHALL BE PART OF THE DEMOLITION WORK REQUIRED TO CARRY OUT WORK AS SHOWN IN THE CONSTRUCTION DOCUMENTS.
2	EXISTING SLAB COULD NOT BE VERIFIED PRIOR TO COMPLETION OF CONSTRUCTION DOCUMENTS AND IS ASSUMED TO BE SLAB ON GRADE. IF SAW CUTTING REVEALS ANY OTHER TYPE OF SLAB G.C. SHALL STOP SAW CUTTING AND NOTIFY ARCHITECT.
3	GENERAL CONTRACTOR TO DISPOSE OF ALL WASTE DURING DEMOLITION IN ACCORDANCE WITH ALL APPLICABLE JURISDICTIONS, CODES, AND ORDINANCES.
4	GENERAL CONTRACTOR TO FIELD LOCATE AND DEACTIVATE IF REQUIRED -IN ALL WALLS TO BE DEMOLISHED -ALL EXISTING "HOT" ELECTRICAL WIRING PRIOR TO DEMOLITION.
5	GENERAL CONTRACTOR TO VERIFY ALL DIMENSIONS ON SITE AND NOTIFY ARCHITECT OF ANY DISCREPANCIES IMMEDIATELY PRIOR TO PROCEEDING.
6	REFER TO MEP PLANS FOR COORDINATION OF ALL EXISTING MECHANICAL, ELECTRICAL AND PLUMBING.
7	CONTRACTOR SHALL NOT DEMOLISH ANY LOAD BEARING WALLS OR CONSTRUCTION THAT WILL COMPROMISE THE STRUCTURAL INTEGRITY OF THE STRUCTURE. NOTIFY OWNER OF ANY STRUCTURAL ISSUES ARISING FROM DEMOLITION.
8	REMOVE AND CAP ALL EXISTING ELECTRICAL CONDUIT THROUGHOUT PER ELECTRICAL CODE REQUIREMENTS.
9	REMOVE AND CAP ALL EXISTING FLOOR POWER AND COMMUNICATION OUTLETS THROUGHOUT PER ELECTRICAL CODE REQUIREMENTS.
10	WHERE PARTITION DEMOLITION OCCURS ADJACENT TO EXISTING TO REMAIN, PATCH AND REPAIR ADJACENT CONDITIONS FOR FINAL STORE FINISHES.
11	ITEMS DAMAGED DURING DEMOLITION BEYOND SCOPE OF DEMOLITION REQUIREMENTS SHALL BE REPAIRED OR REPLACED TO LIKE NEW CONDITION AT NO ADDITIONAL COST TO OWNER.

SHEET SYMBOLS

	EXISTING WALL/FIXTURE TO BE REMOVED, (U.O.N.)
	EXISTING WALL TO REMAIN

KEY NOTES: (#)

1	EXISTING STOREFRONT WINDOW TO REMAIN.
2	EXISTING DOOR AND FRAME TO REMAIN.
3	NOT USED
4	CONNECT TO EXISTING 4" SANITARY PIPING IN THIS AREA. FIELD VERIFY EXACT LOCATION AND PROVIDE CONNECTIONS AS REQUIRED.
5	PREPARE EXISTING CONCRETE SUB-FLOOR AS REQUIRED FOR NEW FLOOR FINISH. ACID WASH/ ETCH AS REQUIRED FOR REMOVAL OF ALL PREVIOUS CONSTRUCTION ADHESIVES AND DEBRIS PRIOR TO INSTALLATION OF NEW FLOOR FINISH.
6	PREPARE EXISTING TENANT DEMISING WALLS AND INTERIOR FACE OF EXTERIOR WALLS AS REQUIRED FOR NEW SCHEDULED WALL FINISHES. AT EAST DEMISING WALL, PREPARE FOR FURR-OUT OF PLUMBING AND ELECTRICAL IN NEW KITCHEN AREA.
7	EXISTING DEMISING/ EXTERIOR WALL TO REMAIN. DO NOT DAMAGE EXISTING RATED ASSEMBLY (IF ANY, V.I.F.). PATCH/ REPAIR AS REQ'D TO MAINTAIN FIRE RATING (IF ANY, V.I.F.), AND WHERE DAMAGED FROM PREVIOUS TENANT'S CONSTRUCTION. PREPARE AS NECESSARY TO RECEIVE NEW FINISHES.
8	EXISTING STRUCTURAL COLUMN TO REMAIN. PREPARE AS REQUIRED FOR NEW PAINT FINISH TO MATCH KITCHEN WALL FINISHES.
9	NOT USED.
10	REMOVE EXISTING FLOOR MOP SINK. CAP IN PLACE - EXISTING PLUMBING STUB-OUTS AND SANITARY DRAIN BELOW TO BE CAPPED IN PLACE FOR FUTURE USE. SEE A1.0 AND PLUMBING FOR NEW SINK LOCATION AND ADDITIONAL REQUIREMENTS.
11	REMOVE EXISTING WALL MOUNTED WATER HEATER AND PLATFORM. SEE A1.0 AND PLUMBING FOR NEW LOCATION AND ADDITIONAL REQUIREMENTS.
12	NOT USED.
13	REMOVE ALL EXISTING RESTROOM PLUMBING FIXTURES AND ACCESSORIES. PATCH / REPAIR WALL AND PROVIDE FIRE SEALANT AT EXISTING PENETRATIONS AS REQUIRED TO MAINTAIN EXISTING 1-HR RATED CONDITION.
14	NOT USED.
15	EXISTING INTERIOR WALL TO BE REMOVED COMPLETELY.
16	EXISTING ELECTRICAL PANEL TO BE REMOVED. SEE A1.0 & ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
17	ALL EXISTING LIGHTING FIXTURE TO BE REMOVED, TYP.
18	EXISTING ROOF STRUCTURE ABOVE TO REMAIN. PREPARE FOR NEW CEILING GRID AND SOFFIT LAYOUT. REMOVE EXISTING HVAC DUCT (WHERE REQUIRED) FOR INSTALLATION OF DUCTS PER MECHANICAL DRAWINGS.
19	TRENCH OR CORE-DRILL FLOOR AREAS AS REQUIRED FOR INSTALLATION OF NEW FLOOR DRAINS AND SINKS. REFERENCE PLUMBING DRAWINGS

N

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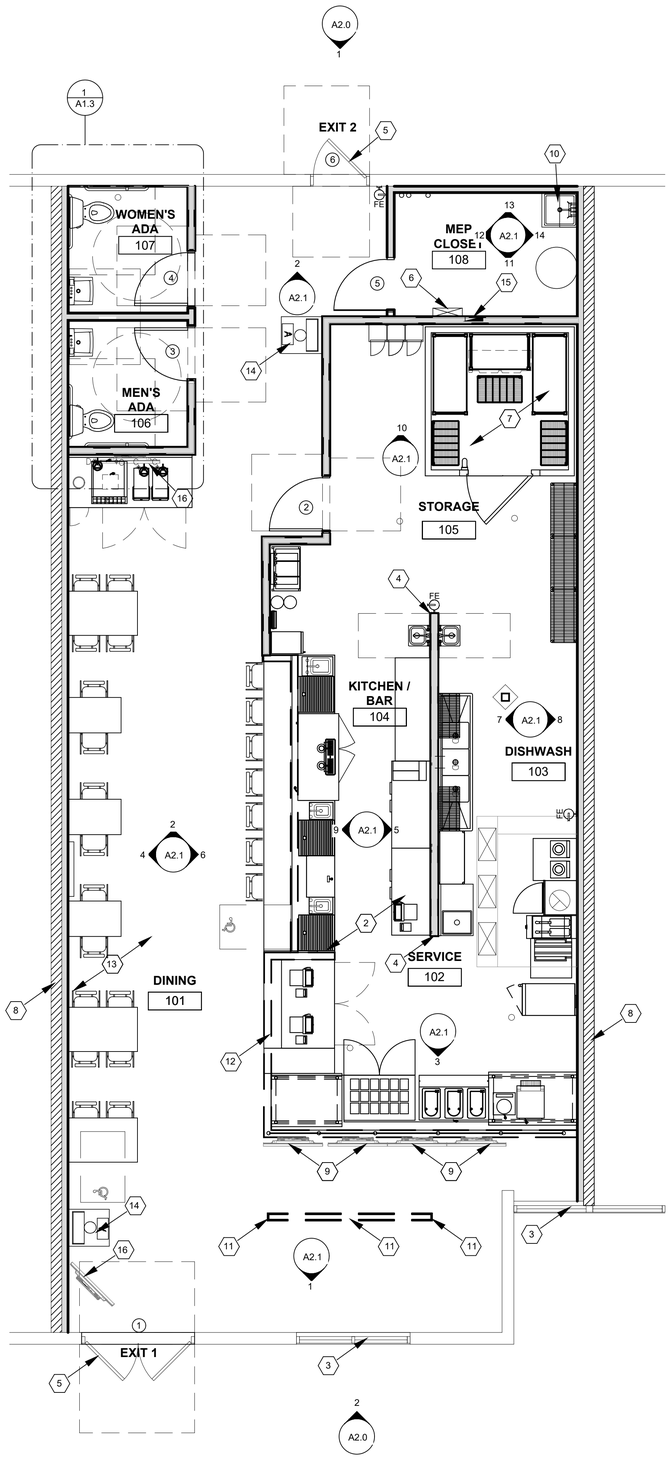
SHEET TITLE
DEMOLITION FLOOR AND REFLECTED CEILING PLAN

SHEET NUMBER:
D1.0

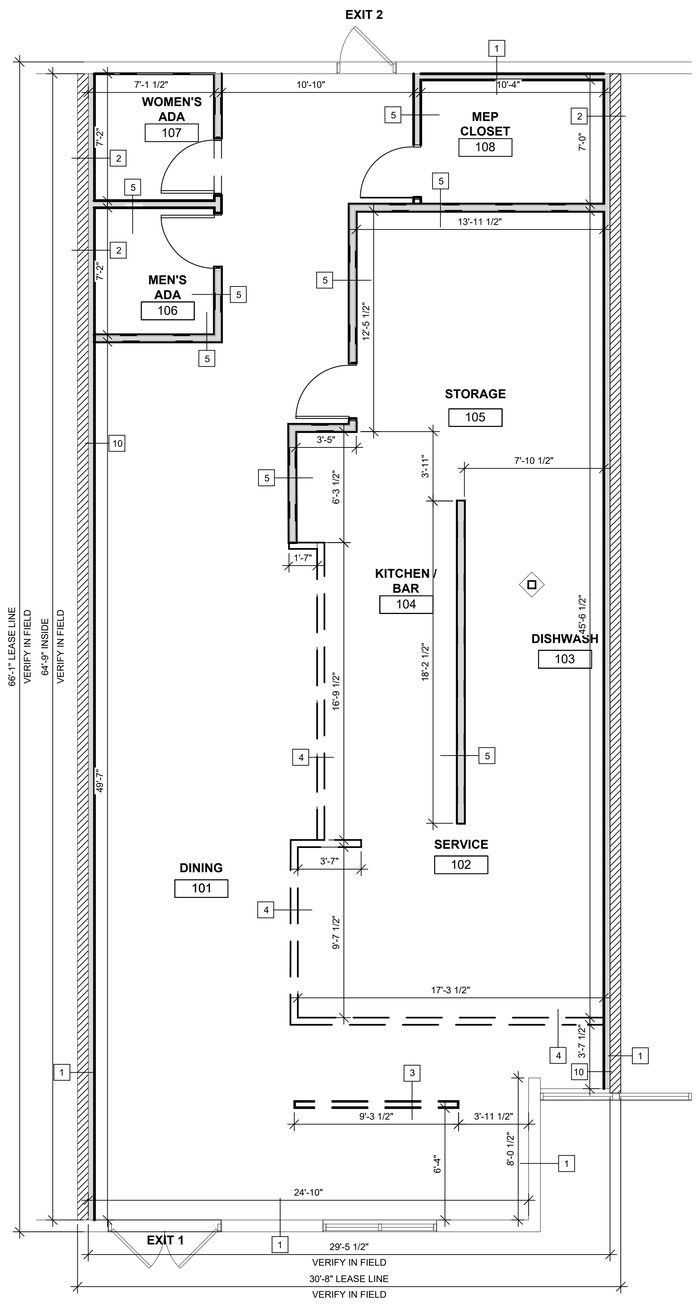
JLLA PROJECT NUMBER:
DBQ-103

07/13/2022 - ISSUED FOR PERMIT



NOTED PLAN
1/4" = 1'-0"

2



DIMENSIONED PLAN
1/4" = 1'-0"

1

GENERAL NOTES

1	ALL DIMENSIONS ARE SHOWN TO FACE OF STUD OR FACE OF BLOCK WALL UNLESS NOTES OTHERWISE.
2	REFER TO WALL TYPE SCHEDULE FOR ALL NEW WALLS.
3	REFER TO FINISH SCHEDULE AND DETAILS FOR APPLIED FINISHES.
4	WALLS TO STRUCTURAL DECK MUST BE THOROUGHLY SEALED AROUND PENETRATIONS.
5	PLYWOOD BLOCKING SHALL BE IN INSTALLED FOR ALL WALLS HAVING EQUIPMENT SHELVES, REFER TO KITCHEN DRAWINGS.
6	REFER TO FLOOR FINISH PLAN AND INTERIOR ELEVATIONS FOR WALL FINISHES.
7	REFER TO WALL SECTIONS FOR PLACEMENT OF WATERPROOFING AT ALL WALLS WITH CEMENTTIOUS BACKER BOARD.
8	PROVIDE WOOD BLOCKING AT ALL HUNG EQUIPMENT AND RESTROOM.
9	G.C. SHALL FIELD VERIFY THE EXACT EXISTING SPACE CONDITIONS, DIMENSIONS, AND COLUMN SPACING PRIOR TO CONSTRUCTION AND INFORM ARCHITECT IMMEDIATELY IF ANY DISCREPANCIES ARE FOUND BETWEEN DRAWINGS AND SITE CONDITIONS. ANY CHANGES OR REWORK DUE TO UNREPORTED DIFFERENCES SHALL BE AT G.C.'S EXPENSE.
10	REFER TO FINISH SCHEDULE AND DETAILS FOR APPLIED FINISHES.
11	REFER TO PLUMBING PLANS FOR ALL FLOOR DRAINS, FLOOR SINKS AND HUB DRAIN LOCATIONS.

KEY NOTES:

1	RELOCATED WATER HEATER, REFER TO PLUMBING SHEETS.
2	REFER TO K SHEETS FOR EQUIPMENT PLAN AND SCHEDULE.
3	EXISTING STOREFRONT WINDOWS TO REMAIN.
4	STAINLESS STEEL CORNER GUARD OR END CAP, REFER TO DETAIL 4/A3.0.
5	EXISTING DOOR(S) TO REMAIN. G.C. TO VERIFY PROPER WORKING ORDER.
6	NEW ELECTRICAL PANEL, REFER TO ELECTRICAL SHEETS.
7	NEW REACH-IN COOLERS/ FREEZER. REFER TO K1.0 PLAN & SCHEDULE.
8	EXISTING DEMISING WALL TO REMAIN.
9	OWNER FURNISHED DIGITAL MENU BOARDS. MOUNTS FURNISHED AND INSTALLED BY VENDOR. G.C. TO COORDINATE REQUIREMENTS FOR BLOCKING. REFER TO K SHEETS AND DETAIL 8/A3.0.
10	NEW MOP SINK. NO FLOOR FINISH BELOW. SEE PLUMBING FOR ADDITIONAL INFORMATION.
11	HALF WALL SUPPORT, REFER TO DETAIL 3/A3.0 AND 6/A3.0
12	FRONT COUNTER WITH OWNER FURNISHED ROLLED METAL PANELS TO FACE OF COUNTER BY G.C.
13	FURNITURE. REFER TO K SHEETS.
14	TRASH RECEPTACLE. REFER TO K SHEETS.
15	RELOCATED ELECTRICAL PANEL. REFER TO ELECTRICAL SHEETS
16	CEILING MOUNTED 40" TELEVISION, REFER TO DETAIL 8/A.0 AND ELECTRICAL SHEETS.
17	NOT USED.

WALL LEGEND

	EXISTING WALL TO REMAIN
	EXISTING DEMISING WALL TO REMAIN
	NEW 3-5/8" OR 6" METAL WALLS TO 6" ABOVE CEILING @ 16" O.C. SECURE TO FLOOR PER 16/A3.0. ATTACH TO EXISTING STRUCTURE ABOVE PER 17/A3.0.
	NEW PARTIAL HEIGHT WALLS W/ 3-5/8" METAL STUDS AT 16" O.C.. SECURE TO FLOOR PER 16/A3.0.

WALL TYPE SCHEDULE

	MATERIALS	1	2	3	4	5	6	7	8	9	10
FRAMING	3 5/8 METAL (20 GA.FOR FULL WALL)					X					
	3 5/8 METAL (20 GA.FURR-OUT TO ROOF)		X								X
	3 5/8 METAL LOW WALL (20 GA.)			X	X						
	6" METAL(20 GA.FOR FULL WALL)										
	EXISTING WALL	X									
SHEATHING	5/8" GYPSUM BOARD										
	5/8" GYPSUM BOARD - (1) SIDE, TO ROOF										X
	5/8" MOISTURE RESISTANCE GYP BOARD		X		X	X					
	5/8" DUROCK TO 12" A.F.F.		X		X	X					X
	1/2" PLYWOOD			X							
COMPONENTS	WATERPROOF MEMBRANE TO 48" A.F.F. (KITCHEN SIDE ONLY)		X		X	X					X
	WATER PROOF MEMBRANE AT 12" A.F.F.										X
	STRUCTURAL TUBE BRACING AT LOW WALL			X	X						
	FIBERGLASS REINFORCEMENT PANEL		X		X	X					
	STAINLESS STEEL PANEL										

NOTE: G.C. TO PROVIDE 5/8" PLYWOOD BACKING AS DIRECTED BY OWNER IN PLACE OF 5/8" GYPSUM BOARD.
REFER TO DETAILS 16/A3.0 AND 17/A3.0 FOR WALL CONNECTIONS.

N

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DIMENSIONED AND NOTED FLOOR PLAN

SHEET NUMBER:

A1.0

JLLA PROJECT NUMBER:

DBQ-103

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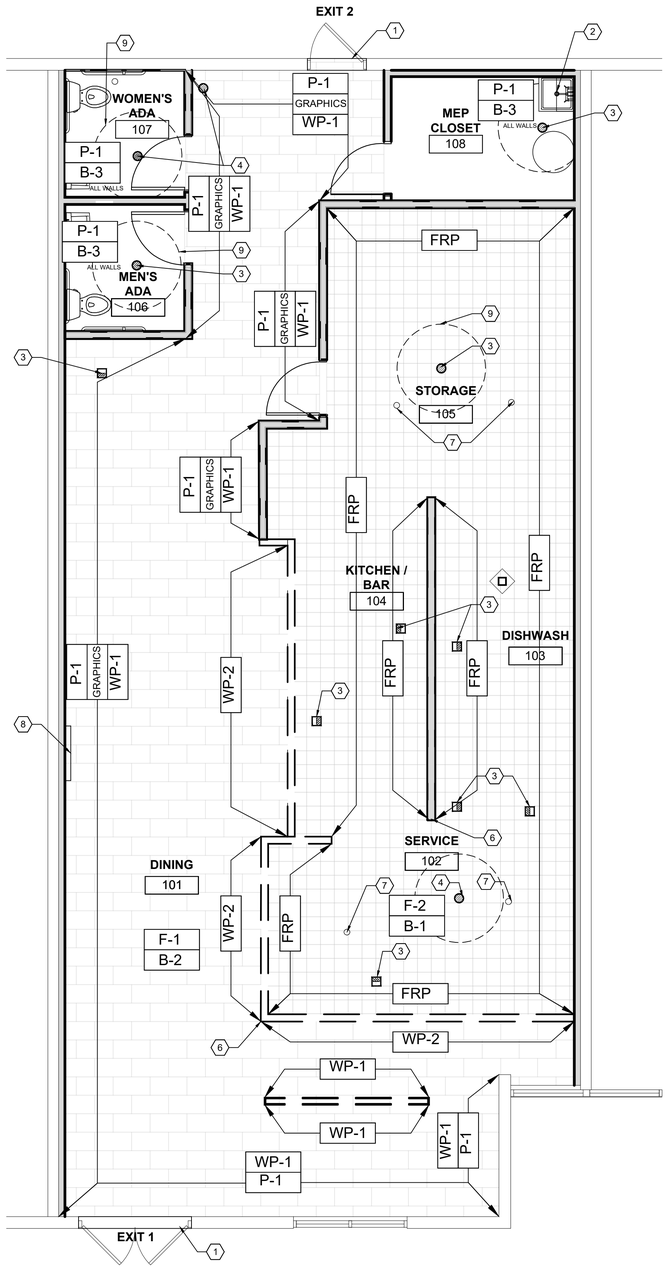


FLOOR FINISH PLAN
1/4" = 1'-0"

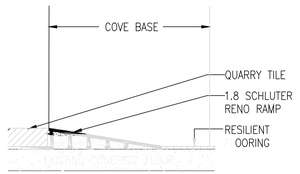
1

FINISH LEGEND (FOR REF. ONLY)

TAG	MANUF.	DESCRIPTION	LOCATION	COLOR	FINISH	REMARKS
FLOOR						
F-1	MOHAWK GROUP	6"x48" TILE PLANK RESILIENT FLOORING	CUSTOMER AREA	MESQUITE ETCHWOORK S C0064, 12MIL COLOR: REALIST 258	RESILIENT TILE, SLIP RESISTANT	
F-2	COVED BASE	6" QUARRY TILE, GROUT: MAPEI ULTRAFLEX 2, #47 CHARCOAL	KITCHEN	RED OQ84	SMOOTH FINISH	
BASE						
B-1	DALTILE PAVERS	6" QUARRY TILE, GROUT: MAPEI ULTRAFLEX 2, #47 CHARCOAL	KITCHEN	RED OQ84	SMOOTH FINISH	
B-2	STANFORD SONOMA	2"x6" WOOD BASE	ALL CUSTOMER AREA WALLS	WOOD BASE	2"x6" WOOD BASE PAINTED BLACK	2 COATS OF CABOT BROWN MAHOGANY STAIN AND 1 COAT OF CLEAR FINISH STAIN
B-3	EXISTING	RUBBER COVE BASE	RESTROOMS			
CEILING						
C-1	USG OR APPROVED EQUAL	GYP. BD, 2x2 NON-PERFORATED LAY-IN WITH HEAVY DUTY 'T' BAR GRID	CUSTOMER AREA, CORRIDOR	FLAT BACK (205) 2'X2' FISSURED	NEW GRID TO MATCH EXISTING.	REFER TO DETAIL 9/A3.0. EXISTING GRID TO BE PAINTED P-1
C-2	USG OR APPROVED EQUAL	VINYL CLAD, GYP. BD, 2x4 NON-PERFORATED LAY-IN WITH HEAVY DUTY 'T' BAR GRID	KITCHEN, SERVICE AREA	3270 CLEAN ROOM CLIMAPLUS, WHITE (50)	1516" GRID: DONN HEAVY DUTY DX/DXL FLAT WHITE	REFER TO DETAIL 9/A3.0. EXISTING GRID TO BE PAINTED P-1
C-3	EXISTING	5/8" TYPE "X" GYPSUM BOARD CEILING	SOFFIT, RESTROOMS	REFER TO RCP	P-3	EXISTING TO REMAIN. PATCH AND REPAIR AS NEEDED
WAINSCOT AND WALLS						
P-1	USG OR ASHERWIN WILLIAMS PPROVED EQUAL	SW6285- TRICORN BLACK	CUSTOMER AREA, INTERIOR DOORS & FRAMES	TRICORN BLACK	LATEX- ACRYLIC SEMI-GLOSS FINISH, 3 COATS	
P-2	BEHR PREMIUM	ULTRA PURE WHITE #2450	KITCHEN SIDE DOORS & FRAMES	ULTRA PURE WHITE		
WP-1	STANFORD SONOMA	RECLAIMED WOOD SLATS	CUSTOMER AREA,	RECLAIMED WOOD SLATS		ALL DINING ROOM WALLS, LOW WALLS & HALLWAY WALLS
WP-2	STANFORD SONOMA	ROLLED METAL PANEL AND DECORATIVE TRIM, ATTACH #6 METAL FINISH SCREWS	SERVICE LINE			G.C. TO INSTALL, VENDOR PROVIDED
WP-3	STAINLESS STEEL VENDOR	STAINLESS STEEL PANEL	SMOKER	STAINLESS STEEL	SMOOTH	RE: PLANS FOR LOCATION
FRP	MARLITE (OR APPROVED EQUAL)	4'x10' FIBERGLASS REINFORCED PANEL	ALL BACK OF HOUSE WALLS	P-100 WHITE PEBBLE 4'x10x FIBERGLASS REINFORCED PANEL		CONTRACTOR TO PROVIDE ALL NECESSARY AND REQUIRED TRIM AND ACCESSORIES
GRAPHICS	FURNISHED BY OWNER	GRAPHIC WALLPAPER	CUSTOMER AREA	FURNISHED BY OWNER	FURNISHED BY OWNER	FIELD VERIFY MEASUREMENTS BEFORE ORDERING
MISC.						
CT-1	WOOD TOP	STANFORD SANOMA	HALF WALL			

NOTES

1. G.C. MUST VERIFY ALL FINISHES WITH TENANT PRIOR TO ORDERING AND INSTALLATION.
2. FRP & CEILING TILE SUPPLIED AND INSTALLED BY G.C.



FLOOR TRANSITION DETAIL
6" = 1'-0"

2

GENERAL NOTES

1	REFER TO FLOOR FINISH PLAN
2	REFER TO WALL SECTIONS FOR PLACEMENT OF WATERPROOFING AT ALL WALLS WITH CEMENTITIOUS BACKER BOARD.
3	PROVIDE WOOD BLOCKING AT ALL HUNG EQUIPMENT AND RESTROOM.
4	REFER TO FINISH SCHEDULE AND DETAILS FOR APPLIED FINISHES.
5	REFER TO KITCHEN PLANS FOR ALL FLOOR DRAINS/FLOOR SINKS/TRENCH DRAINS LOCATIONS.
6	ALL RECESSED FIXTURE TRIMS TO BE PAINTED TO MATCH ADJACENT CEILING.
7	ALL SURFACE MOUNTED EMERGENCY FIXTURES TO BE PAINTED TO MATCH ADJACENT CEILING.
8	ALL A/C GRILLS, SPEAKERS, ETC. TO BE PAINTED TO MATCH ADJACENT CEILING.

KEY NOTES: (#)

1	ALUMINUM THRESHOLD, REFER TO DETAIL 5/A3.0
2	NEW MOP SINK, REFER TO PLUMBING DRAWINGS.
3	NEW FLOOR SINK, REFER TO DETAIL 1/A3.0 AND PLUMBING DRAWINGS.
4	EXISTING FLOOR DRAIN, REFER TO PLUMBING DRAWINGS.
5	NEW FLOOR DRAIN, REFER TO PLUMBING DRAWINGS.
6	STARTING POINT OF FLOOR.
7	NEW CLEANOUT. REFER TO PLUMBING DRAWINGS
8	LETTER "D" INTERIOR LIGHTED SIGN. REFER TO DETAIL 12/A3.0.. REFER TO DETAIL 12/A3.0.
9	PROVIDE ARDEX AM 100 RAMPING MORTAR TO SLOPE FLOOR TO DRAINS 60" DIAMETER. SEE DETAIL 1/A3.0.
10	TRANSITION STRIP. REFER TO DETAIL 2/A1.1.
11	NOT USED.

FLOOR FINISH LEGEND

	4"x48" TILE PLANK RESILIENT FLOORING (F-1)
	6" QUARRY TILE (F-2)

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FLOOR FINISH PLAN AND SCHEDULES

SHEET NUMBER:
A1.1

JLLA PROJECT NUMBER:
DBQ-103

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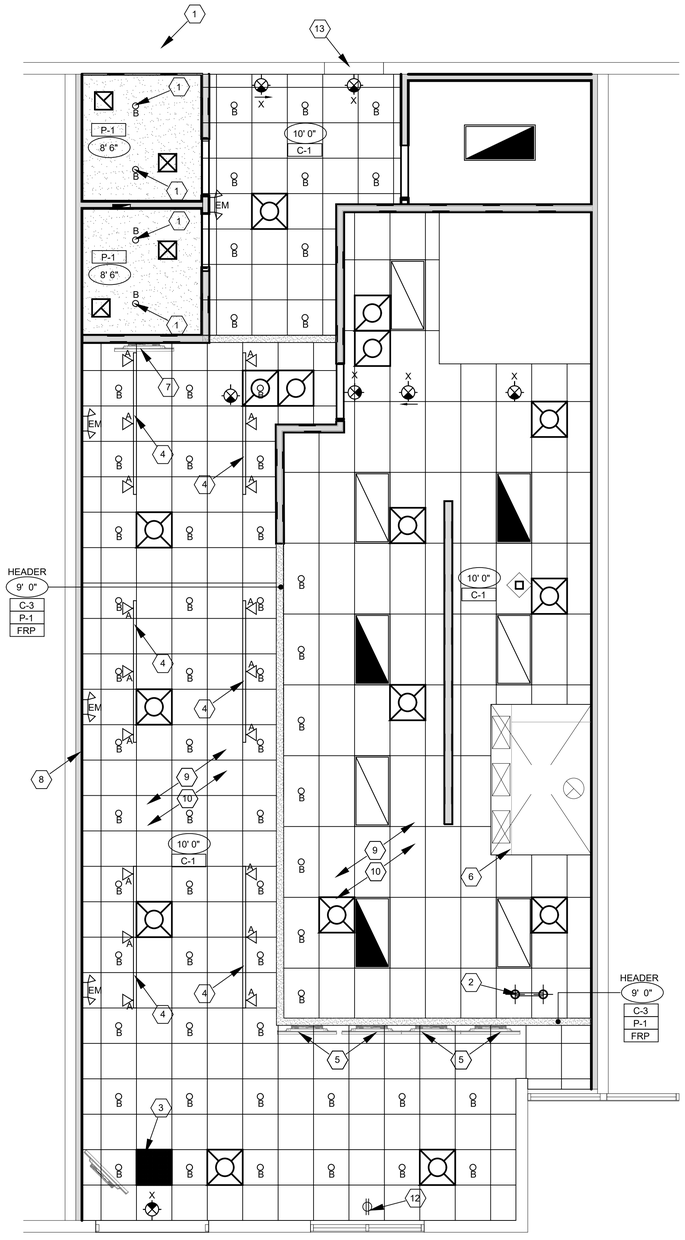

REFLECTED CEILING PLAN
1/4" = 1'-0"

1

N

FINISH LEGEND (FOR REF.ONLY)

TAG	MANUF.	DESCRIPTION	LOCATION	COLOR	FINISH	REMARKS
C-1	USG OR APPROVED EQUAL	GYP. BD, 2x2 NON-PERFORATED LAY-IN WITH HEAVY DUTY 'T' BAR GRID	CUSTOMER AREA, CORRIDOR	FLAT BACK (205) 2'X2' FISSURED	NEW GRID TO MATCH EXISTING.	REFER TO DETAIL 9/A3.0. EXISTING GRID TO BE PAINTED P-1
C-2	USG OR APPROVED EQUAL	VINYLCLAD, GYP. BD, 2X4 NON-PERFORATED LAY-IN WITH HEAVY DUTY 'T' BAR GRID	KITCHEN, SERVICE AREA	3270 CLEAN ROOM CLIMAPLUS, WHITE (50)	1516" GRID: DONN HEAVY DUTY DX/DXL FLAT WHITE	SMOOTH AND WASHABLE. REFER TO DETAIL 9/A3.0
C-3	EXISTING	5/8" TYPE "X" GYPSUM BOARD CEILING	SOFFIT, RESTROOMS	REFER TO RCP	P-3	EXISTING TO REMAIN. PATCH AND REPAIR AS NEEDED
P-1	SHERWIN WILLIAMS	SW6285- TRICORN BLACK	CUSTOMER AREA, INTERIOR DOORS & FRAMES	TRICORN BLACK	LATEX-ACRYLIC SEMI-GLOSS FINISH, 3 COATS	
P-2	BEHR PREMIUM	ULTRA PURE WHITE #2450	KITCHEN SIDE DOORS & FRAMES	ULTRA PURE WHITE		

GENERAL NOTES

1	ALL RECESSED FIXTURE TRIMS TO BE PAINTED TO MATCH ADJACENT CEILING.
2	ALL SURFACE MOUNTED EMERGENCY FIXTURES TO BE PAINTED TO MATCH ADJACENT CEILING.
3	ALL A/C GRILLS, SPEAKERS, ETC. TO BE PAINTED TO MATCH ADJACENT CEILING.
4	REFER TO ELECTRICAL FOR ALL LIGHT FIXTURES.

KEY NOTES (#)

1	TIED TO EMERGENCY LIGHTING
2	HEAT LAMP, REFER TO ELECTRICAL, VERIFY ALL HEIGHTS WITH OWNER.
3	UNIT HEATER - SEE M1.0
4	NEW TRACK LIGHTS. REFER TO ELECTRICAL.
5	MENU MONITOR BOARD (40" TV'S). REFER TO DETAIL 11/A3.0 AND ELECTRICAL. MOUNTS PROVIDED AND INSTALLED BY VENDOR.
6	NEW MECHANICAL HOOD, REFER TO MECHANICAL.
7	POLE MOUNTED 40" TELEVISION, REFER TO 8/A3.0 AND ELECTRICAL. MOUNTS PROVIDED AND INSTALLED BY VENDOR.
8	DICKEY'S "D" SIGN BELOW. REFER TO ELECTRICAL.
9	NEW LIGHT FIXTURE CENTERED IN CEILING TILE, TYPICAL (U.N.O.).
10	NEW CEILING TILE AND GRID, TYPICAL, SEE CEILING DETAILS, SHEET A3.1
11	NOT USED
12	PROVIDE SHOW WINDOW CONVENIENCE OUTLET. SEE ELECTRICAL FOR ADDITIONAL INFORMATION.
13	PROVIDE NEW AIR-CURTAIN. SEE MECHANICAL FOR SPECIFICATION AND LOCATION OF POWER. G.C. TO PROVIDE BLOCKING, POWER AND J-BOX ABOVE DOOR.

LIGHT FIXTURE LEGEND

	2X4 LED FIXTURE
	RECESSED CAN LIGHT
	8' TRACK LIGHT MOUNTED TO CEILING
	EXIT SIGN, REFER TO ELECTRICAL DRAWINGS
EM	EMERGENCY LIGHT AND SIGN COMBO,REFER TO ELECTRICAL DRAWINGS
	SUPPLY DIFFUSER, REFER TO MECHANICAL DRAWINGS
	RETURN GRILL, REFER TO MECHANICAL DRAWINGS
	EXHAUST FAN, REFER TO MECHANICAL DRAWINGS
	TELEVISON / MENU BOARD (PROVIDED BY OWNER)
	LOCATION OF NEW CEILING GRID
	CEILING RECEPTACLE

SUSPENDED CEILING NOTES:

(ALL HANGERS TO BE #8 GALV. WIRE AT 2'-0" O.C. IF CEILING SYSTEMS ARE NOTE CONNECTED TO PARTITIONS)

A. PROVIDE LATERAL SUPPORT WITH NO.12 GA. WIRES SPLAYED IN 4 DIRECTIONS, 90° APART. CONNECT AT MAIN RUNNER WITH 2'-0" OFCROSSRUNNER AND TO STRUCTURE ABOVE AT ANGLE NOT TO EXCEED 45 DEGREES FROM PLANE OF CEILING. THESE LATERAL SUPPORTS TO BE 12'-0" O.C. WITH FIRST POINT 4'-0" FROM EACH WALL.

B. ALLOWANCE TO BE PROVIDE FOR LATERAL MOVEMENT OF SYSTEM. MAIN AND CROSS RUNNERS MAYBE ATTACHED TO ADJACENT WALLS WITH CLEARANCE BETWEEN WALL AND RUNNER AT REMAINING 2 WALLS. LIGHT FIXTURES RECESSED NOT OVER 56 LBS. AND PENDANT NOT OVER 20 LBS. MAY BE POSITIVELY ATTACHED TO CEILING SYSTEM RUNNERS WITH SCREWS OR BOLTS AIR DIFFUSERS NOT OVER 20 LBS. MAY BE POSITIVELY ATTACHED TO CEILING SYSTEM RUNNERS WITH SCREWS OR BOLTS

C. AIR DIFFUSERS NOT OVER 30 LBS. RECEIVING NO EXTRA LOAD FROM DUCTWORK MAY BE POSITIVELY ATTACHED TO CEILING WITH SCREWS OR BOLTS. LIGHTING FIXTURES, FURNISH AND INSTALL COMPLETE WITH LAMPS BALLASTS AND REQUIRED MOUNTING HARDWARE. PRIOR TO ORDERING FIXTURES, VERIFY MOUNTING METHODS AND FINISHES. ALL FLOURESCENT FIXTURES MOUNTED IN "T-BAR" CEILINGS TO BE INDEPENDENTLY SUSPENDED WITH 2 #10 STEEL WIRES DIAGONALLY. INSTALLATIONS IN FIRE-RATED AREAS TO BEDONE ACCORDING TO CODE

D. CONTRACTOR TO PROVIDE COMPRESSION UNIT STRUT AT 12" O.C.

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SEAL

STATE OF MICHIGAN
RUSSELL M. BAUMANN
ARCHITECT
No. 1301060729
LICENSED ARCHITECT
07/19/2022

DICKEY'S - SAGINAW
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SUITE 109
SAGINAW, MI 48604

CLIENT : SMOKING CARDINALS, LLC
1113 CARRIE LYNN DRIVE
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DICKEY'S BARBECUE PIT est. 1941

MI-2197

DATE	DESCRIPTION
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	DATE	DESCRIPTION

SHEET TITLE
REFLECTED CEILING PLAN & SCHEDULES

SHEET NUMBER:
A1.2

JLLA PROJECT NUMBER:
DBQ-103

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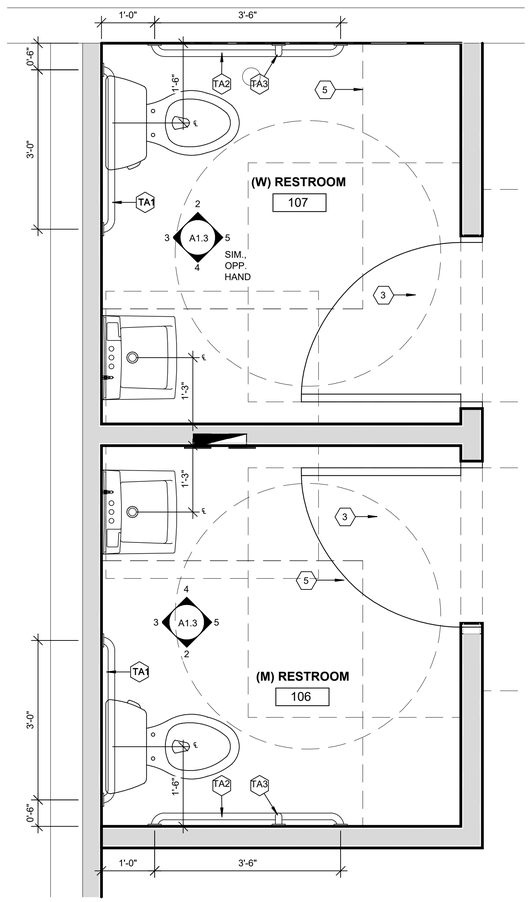
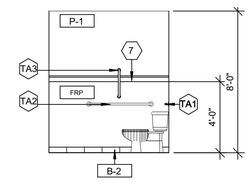
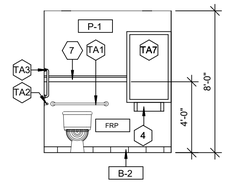


ENLARGED FLOOR PLAN 1
3/4" = 1'-0"

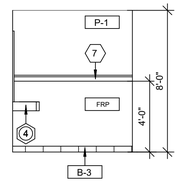
** NOTE: ALL FIXTURE AND CLEAR DIMENSIONS ARE FROM FINISH FACE.



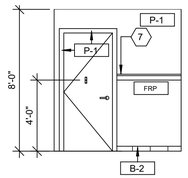
ELEVATION 2
1/4" = 1'-0"



ELEVATION 3
1/4" = 1'-0"



ELEVATION 4
1/4" = 1'-0"



ELEVATION 5
1/4" = 1'-0"

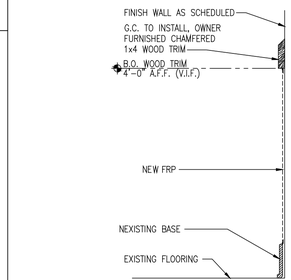
GENERAL NOTES	
1	ALL DIMENSIONS ARE SHOWN TO FACE OF STUD UNLESS NOTED OTHERWISE.
2	REFER TO FINISH SCHEDULE A1.1 AND DETAILS FOR APPLIED FINISHES.
3	PROVIDE SOLID WOOD BLOCKING IN WALL SPACE TO ENSURE ALL FIXTURES AND ACCESSORY SECURELY FASTENED.
4	NOT USED
5	PAPER TOWEL AND TOILET PAPER HOLDER INSTALLED BY CONTRACTOR.

KEY NOTES (#)	
1	PROVIDE BLOCKING FOR ALL WALL MOUNTED EQUIPMENT/SHELVES, AS REQUIRED
2	NEW INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGN, REFER TO T1.2
3	EXISTING 5'-0" DIA. CLEAR FLOOR SPACE.
4	WRAP INSULATE DRAIN PIPING IF NOT EXISTING.
5	EXISTING 56" X 60" CLEAR FLOOR SPACE.
6	EXISTING 30" X 48" CLEAR FLOOR SPACE.
7	1x4 WOOD CHAMFERED TRIM, RE: 8/A1.3.

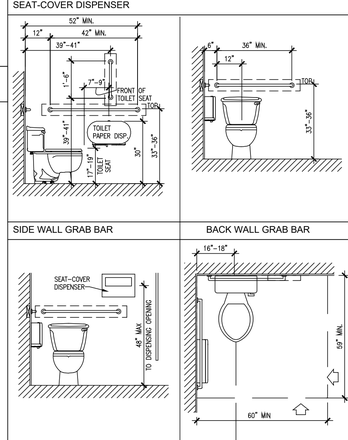
TOILET ACCESSORY SCHEDULE

Mark	ITEM	Description
TA1	REAR GRAB BAR	36"
TA2	SIDE GRAB BAR	42"
TA3	VERTICAL GRAB BAR	18"
TA4	LIQUID SOAP DISPENSER	
TA5	TOILET PAPER HOLDER	STANFORD SONOMA, MODEL: CUSTOM, BLACK IRON (VERIFY W/ OWNER)
TA6	PAPER TOWEL HOLDER	STANFORD SONOMA, MODEL: CUSTOM, BLACK IRON (VERIFY W/ OWNER)
TA7	MIRROR	T.B.D. BY DICKEY'S
TA8	TRASH RECEPTACLE	RUBBERMAID, MODEL: 190199, 24 GAL. METAL FRONT, STEP-ON WASTE BIN.
TA9	SAN NAPKIN DISPOSAL	BOBRICK, MODEL: B-270, SURFACE MOUNTED.
TA10	COAT HOOK	BOBRICK, MODEL: B-76717, STAINLESS STEEL, HEAVY DUTY

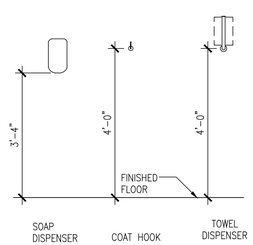
(SEE SHEET A0.1 FINISH SCHEDULE)

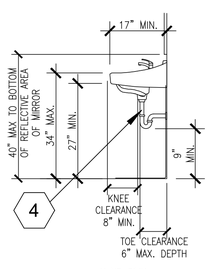


WAINSCOT DETAIL 8
1 1/2" = 1'-0"



NOTES:
1. DIMENSIONS SHOWN HERE ARE FROM FACE OF WALL OR FLOOR FINISH.
2. DIMENSIONS SHOWN ON RESTROOM INTERIOR ELEVATIONS TAKE PRIORITY.





ACCESSIBLE REQUIREMENTS 9
1 1/2" = 1'-0"

NOT USED 6

NOT USED 7

NOT USED 10

NOT USED 11

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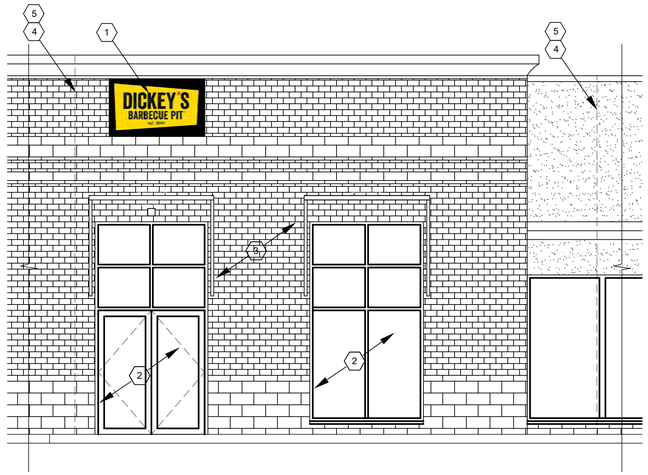
SHEET TITLE
ENLARGED FLOOR PLANS AND ELEVATIONS

SHEET NUMBER:
A1.3

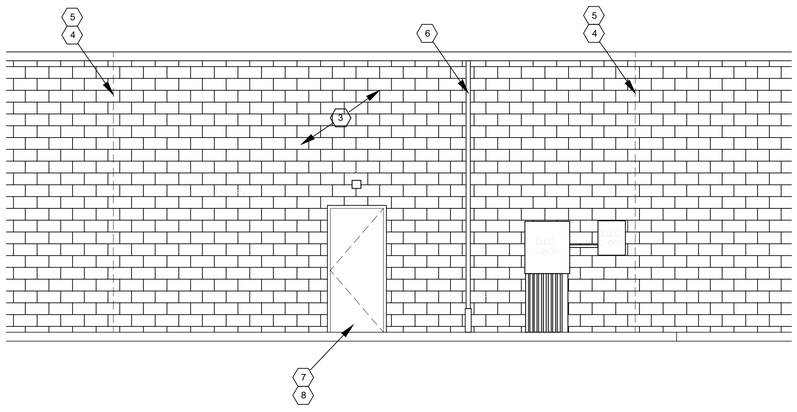
JLLA PROJECT NUMBER:
DBQ-103

07/13/2022 - ISSUED FOR PERMIT



REAR ELEVATION
1/4" = 1'-0"

2



FRONT ELEVATION
1/4" = 1'-0"

1

KEY NOTES (#)

1	NEW SIGNAGE SHOWN FOR REFERENCE ONLY. FINAL SIZE AND LOCATION TO REFERENCE ONLY. FINAL SIZE AND LOCATION TO . FINAL SIZE AND LOCATION TO BE DESIGNED BY SIGN VENDOR AND SUBMITTED TO DICKEY'S, LANDLORD AND CITY UNDER SEPARATE PERMIT. DIMENSIONS SHOWN ARE FOR BIDDING PURPOSES ONLY. FINAL DIMENSIONS WILL NEED TO BE VERIFIED IN FIELD. NON-ELECTRICAL SIGN AT REAR.
2	EXISTING STOREFRONT DOORS AND GLAZING SYSTEM TO REMAIN. G.C. TO HAVE GLAZING PROFESSIONALLY CLEANED PRIOR TO TURNOVER, TYPICAL.
3	EXISTING EXTERIOR FINISHES TO REMAIN, G.C. TO PATCH AND REPAINT ANY HOLES OR OLD PATCHES NOT DONE TO BASE BUILDING STANDARD, TYPICAL. COORDINATE WITH LANDLORD.
4	LEASE LINE.
5	EXISTING DEMISING WALL.
6	EXISTING GUTTER, DOWNSPOUT AND OVERFLOW TO REMAIN.
7	EXISTING DOOR TO REMAIN.
8	CONTRACTOR SHALL VERIFY THERE IS FLOOR OR LANDING AT SAME ELEVATION ON EACH SIDE OF THE DOOR. NOTIFY ARCHITECT IF VARIES

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SHEET TITLE
EXTERIOR ELEVATIONS

SHEET NUMBER:
A2.0

JLLA PROJECT NUMBER:
DBQ-103

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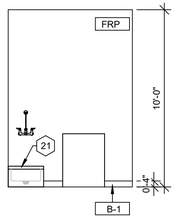
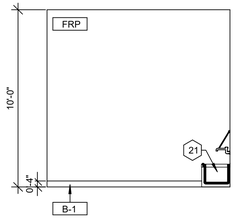
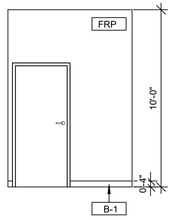


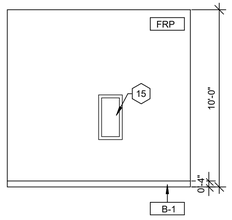
ELEVATION 14
1/4" = 1'-0"



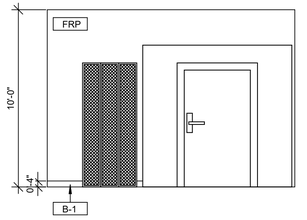
ELEVATION 13
1/4" = 1'-0"



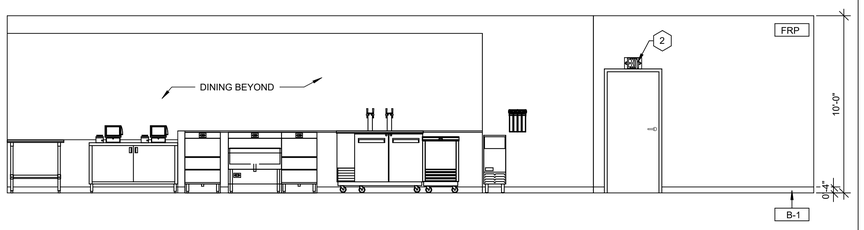
ELEVATION 12
1/4" = 1'-0"



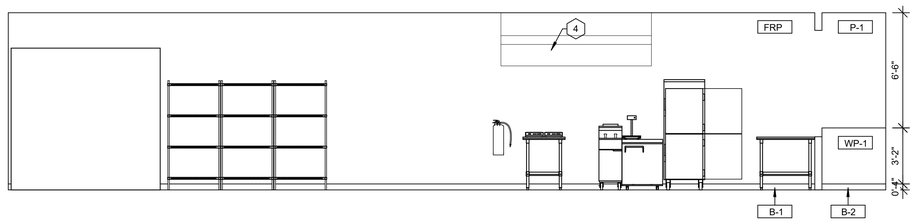
ELEVATION 11
1/4" = 1'-0"



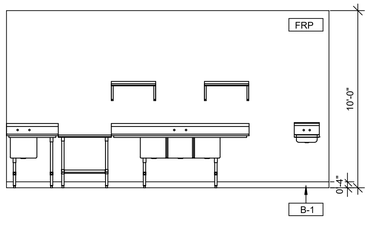
ELEVATION 10
1/4" = 1'-0"



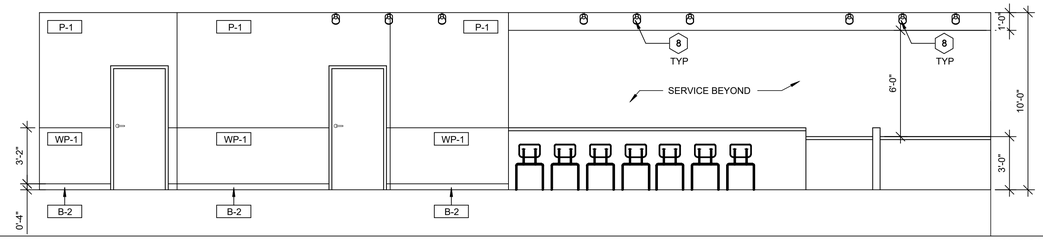
ELEVATION 9
1/4" = 1'-0"



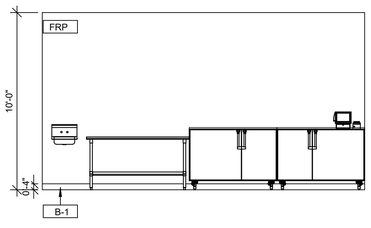
ELEVATION 8
1/4" = 1'-0"



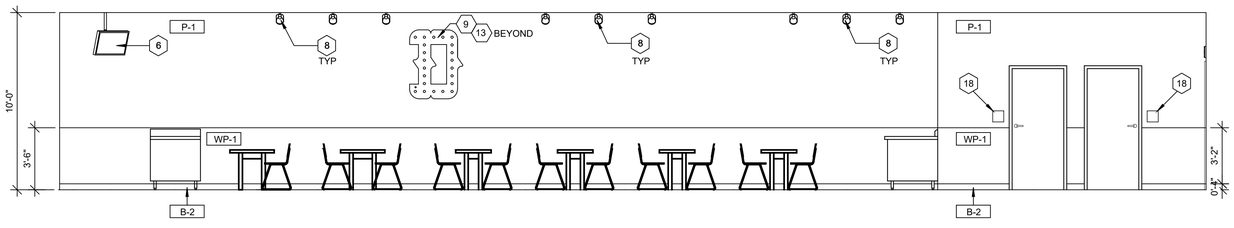
ELEVATION 7
1/4" = 1'-0"



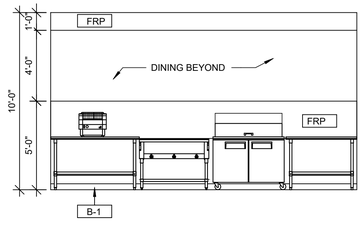
ELEVATION 6
1/4" = 1'-0"



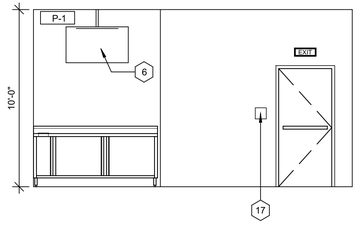
ELEVATION 5
1/4" = 1'-0"



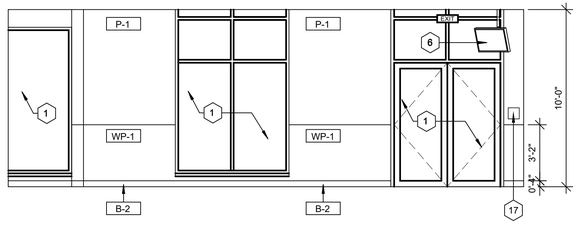
ELEVATION 4
1/4" = 1'-0"



ELEVATION 3
1/4" = 1'-0"



ELEVATION 2
1/4" = 1'-0"



ELEVATION 1
1/4" = 1'-0"

KEY NOTES (#)

1	EXISTING STOREFRONT DOORS FRAMES AND GLAZING TO REMAIN.
2	EXIT SIGN. REFER TO ELECTRICAL SHEETS.
3	NOT USED.
4	MECHANICAL HOOD, REFER TO MECHANICAL SHEETS.
5	EXISTING WATER HEATER, REFER TO PLUMBING SHEETS.
6	NEW POLE MOUNTED 40" TELEVISION, REFER DETAIL 8/A3.0 AND TO ELECTRICAL SHEETS.
7	STAINLESS STEEL CORNER GUARD OR END CAP, REFER TO DETAIL 4/A3.0
8	LIGHT FIXTURES, REFER TO ELECTRICAL SHEETS.
9	DECORATIVE "D" SIGN, REFER TO DETAIL 12/A3.0 AND ELECTRICAL SHEETS.
10	STAINLESS STEEL BACKSPLASH.
11	TRASH CAN, REFER TO K SHEETS.
12	(4) 40" DIGITAL MENU BOARD. MOUNT PROVIDED AND INSTALLED BY VENDOR. TV'S PROVIDED BY OWNER. REFER TO K SHEETS AND DETAIL 11/A3.0.
13	ELECTRICAL OUTLET. REFER TO ELECTRICAL SHEETS.
14	PROVIDE FRT BLOCKING FOR ALL MOUNTED EQUIPMENT OR SHELVES.
15	EXISTING ELECTRICAL PANEL, REFER TO ELECTRICAL SHEETS.
16	EXISTING HOLLOW METAL DOOR TO REMAIN.
17	TACTILE EXIT SIGN - SEE 3/T1.2
18	RESTROOM SIGN - SEE 1/T1.2
19	NOT USED.
20	NOT USED.
21	NEW MOP SINK AND FAUCET, REFER TO PLUMBING SHEETS.

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SHEET TITLE

INTERIOR ELEVATIONS

SHEET NUMBER:

A2.1

JLLA PROJECT NUMBER:

DBQ-103

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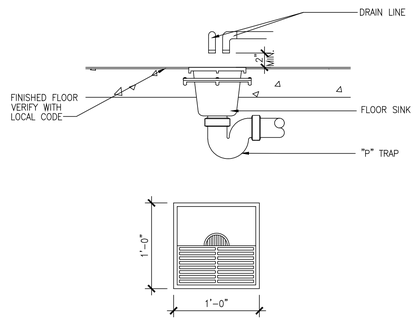
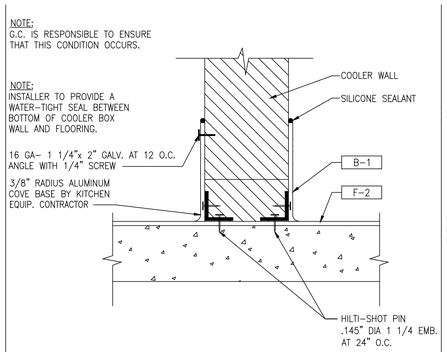
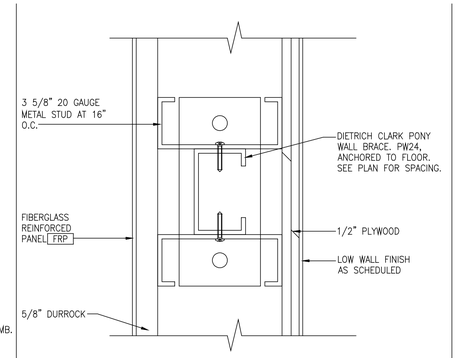


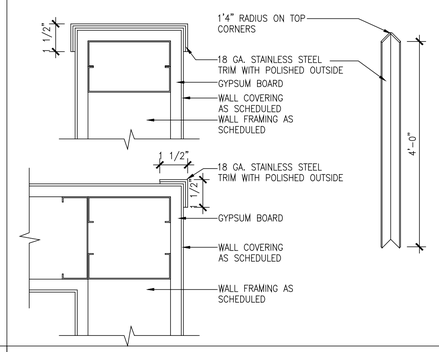
FLOOR SINK DETAIL 1
1"=1'-0"



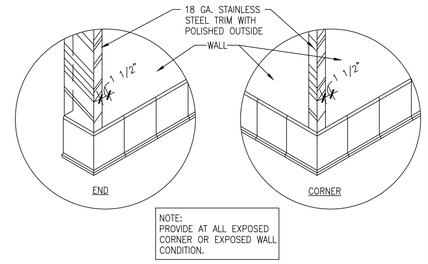
WALK-IN COOLER BASE DETAIL 2
3"=1'-0"

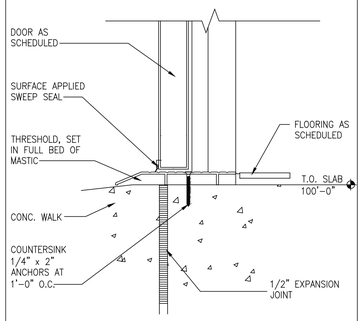


PARTIAL HEIGHT WALL SUPPORT DETAIL
6"=1'-0"

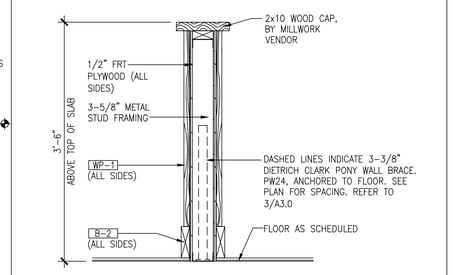


CORNER GUARD AND END CAP DETAILS
3"=1'-0"

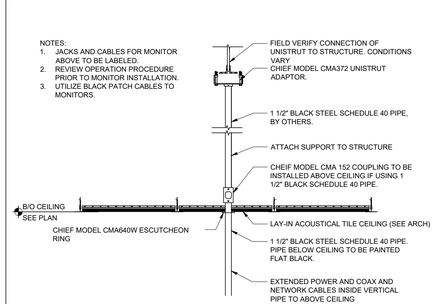




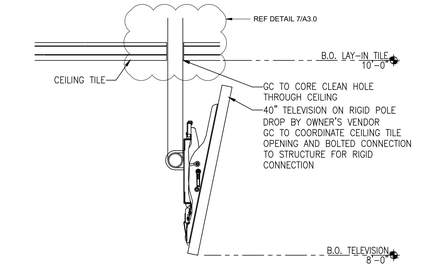
(EXISTING) ALUMN. THRESHOLD DETAIL
3"=1'-0"



LOW WALL SECTION
1"=1'-0"



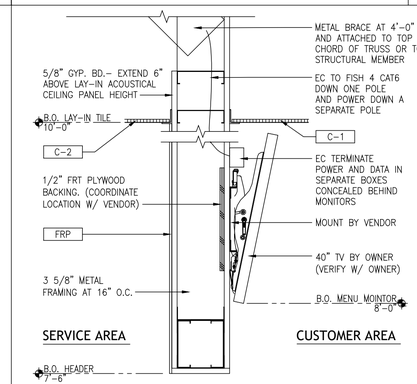
MENU MONITOR DETAIL
1"=1'-0"



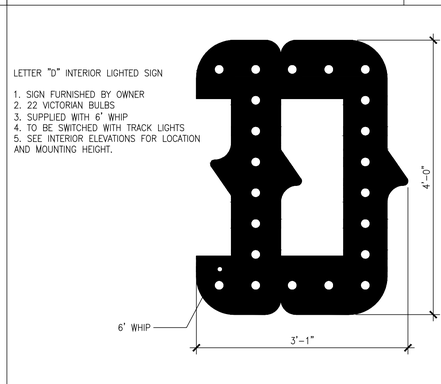
TELEVISION DETAIL
1 1/2"=1'-0"

NOT USED 9

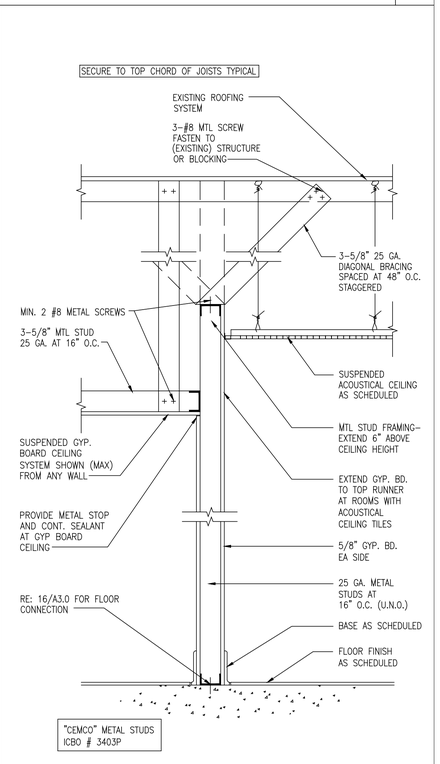
NOT USED 10



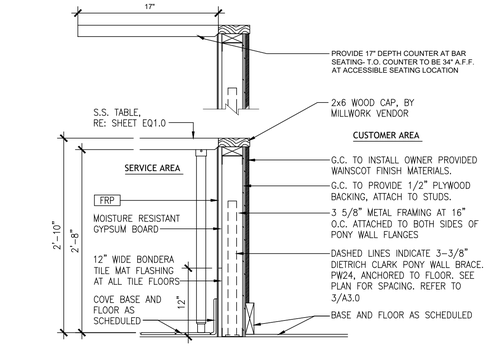
MENU BOARD DETAIL
1 1/2"=1'-0"



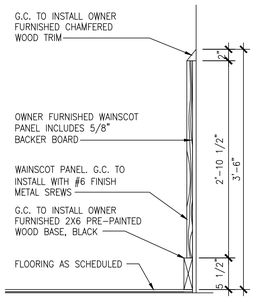
INTERIOR DECORATIVE SIGN
N.T.S.



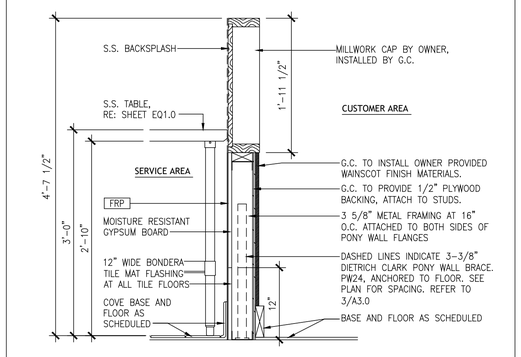
TYPICAL NON-BEARING WALL DETAIL
1"=1'-0"



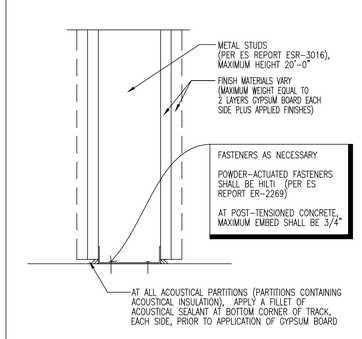
POS COUNTER DETAIL
1"=1'-0"



WAINSCOT DETAIL
1"=1'-0"



LOW WALL DETAIL
1"=1'-0"



PARTITION TO FLOOR CONNECTION
3"=1'-0"

JLL Architecture, LLC
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Chicago, IL 60601
51 West Third St, # 201
Tempe, AZ 85286
tel +1 480 626 6304
fax +1 480 401 3602

CORPORATE:

DICKEY'S BARBECUE RESTAURANT, INC.
4514 COLE AVENUE, SUITE 1100
DALLAS, TX 75205
972.248.9899

SEAL

STATE OF MICHIGAN
RUSSELL M. BAUMANN
ARCHITECT
No. 1301060729
LICENSED ARCHITECT
07/19/2022

DICKEY'S - SAGINAW
2903 PIERCE ROAD
SUITE 109
SAGINAW, MI 48604

CLIENT : SMOKING CARDINALS, LLC
1113 CARRIE LYNN DRIVE
SAGINAW, MI 48706

DICKEY'S BARBECUE PIT
EST. 1941

MI-2197

DATE	DESCRIPTION
07/13/22	ISSUED FOR PERMIT

	DATE	DESCRIPTION

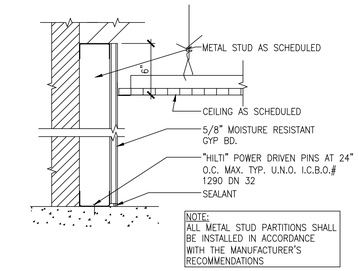
SHEET TITLE
INTERIOR DETAILS

SHEET NUMBER:
A3.0

JLLA PROJECT NUMBER:
DBQ-103

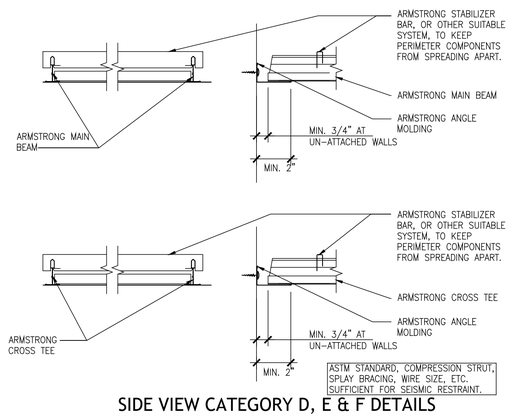
07/13/2022 - ISSUED FOR PERMIT

C:\Users\sez485\Documents\Dickey's BBQ_w_Bar_R22_anmol.parvadiya.rvt

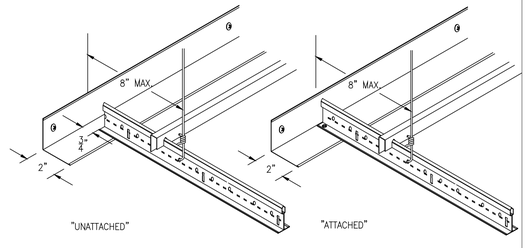


TYPICAL WALL FURRING DETAIL
1 1/2"=1'-0" | 1

NOT USED | 2



SIDE VIEW CATEGORY D, E & F DETAILS



CATEGORY "D" "E" "F" STANDARD

DETAIL
3"=1'-0" | 3

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07/19/2022

DICKEY'S - SAGINAW
2903 PIERCE ROAD
SUITE 109
SAGINAW, MI 48604

CLIENT: SMOKING CARDINALS, LLC
1113 CARRIE LYNN DRIVE
SAGINAW, MI 48706

MI-2197

DATE	DESCRIPTION
07/13/22	ISSUED FOR PERMIT

	DATE	DESCRIPTION

SHEET TITLE

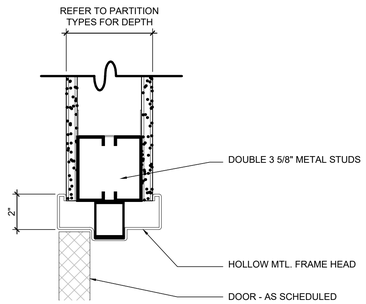
CEILING DETAIL

SHEET NUMBER:

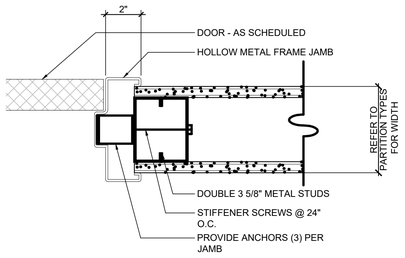
A3.1

JLLA PROJECT NUMBER:
DBQ-103

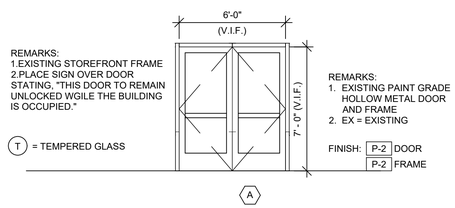
07/13/2022 - ISSUED FOR PERMIT



HOLLOW METAL DOOR HEAD 3
3" = 1'-0"



HOLLOW METAL DOOR JAMB 4
3" = 1'-0"



EXTERIOR ALUMINIUM STOREFRONT DOORS

DOOR #1	
EX	STOREFRONT DOORS
EX	HARDWARE

EXTERIOR HOLLOW METAL DOORS

DOOR #6	
EX	HOLLOW METAL DOOR AND FRAME
EX	HARDWARE

INTERIOR HOLLOW METAL DOORS

DOOR #2,3,4, 5	
(N)	HOLLOW METAL DOOR AND FRAME
(N)	HARDWARE

DOOR ELEVATIONS 1
1/4" = 1'-0"

GENERAL NOTES

1. THE GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR NEATLY CAULKING THE FOLLOWING LOCATIONS:
   - -ALL EXTERIOR WINDOWS TO INTERIOR WOOD TRIM.
   - -ALL WALLCOVERING TO WOOD TRIM TRANSITIONS.
   - -ALL CERAMIC TILE INSIDE CORNERS.
   - -ALL DOOR JAMBS TO CERAMIC TILE, WOOD TRIM OR WALLCOVERING
   - -ALL KITCHEN CEILING GRID TO F.R.P.
   - -ALL CERAMIC TILE BASE TOP GROUT JOINT.
   - -ALL RESTROOM ACCESSORIES TO WALL SURFACE.
   - -ALL WOOD TRIM TO WAINSCOT.
   - -ALL FIBERGLASS REINFORCEMENT PANEL STARTS ON TOP OF THE BASE TILE.

*WHERE APPLICABLE, CAULK SHALL BE PAINTED TO MATCH ADJACENT TRIM.

DOOR NO.	LOCATION	DOOR SIZE	PAIR	DOOR TYPE	DOOR	FRAME	HINGES	LOCKSET						CLOSERS		KICKPLATE		THRESHOLD		DOOR STOP		PUSH	PULL	MISCELLANEOUS							DETAIL LOCATIONS			DOOR NOTES
				SEE DOOR TYPE ELEVATIONS			DESIGN HARDWARE: BB5, 4.5" x 4.5" NRP - FINISH: US26	SCHLAGE LOCKSET CO-100 KEYPAD LOCK - FINISH: 626	SCHLAGE LOCKSET AL50PD SATURN STOREROOM LATCH - FINISH: 626	SCHLAGE LATCHSET AL10S SATURN PASSAGE LATCH - FINISH: BLACK	SCHLAGE DEADBOLT OCCUPANCY INDICATOR B571 - FINISH: 622	SCHLAGE DEADBOLT B660 - FINISH: 622	LCN CLOSERS 1461 X CUSH-STOP	LCN CLOSERS 1461	HAWATHA 10"X34" DIAMOND KICKPLATE - FINISH: BLACK ANODIZED	HAWATHA 10"X34" DIAMOND KICKPLATE - FINISH: SATIN NICKEL	REESE ENTERPRISES S425A-36" - FINISH: ALUM		IVES FLOOR STOP FS446	IVES WALL STOP 1407	PUSH PLATE #40 8"x16" - QUALITY S.S.	PULL PLATE #1610A 4" x 16" - QUALITY S.S.	REESE RAIN DRIP CAP R2010A-40"	REESE DOOR SWEEP 377C-36	REESE WEATHERSTRIP DS75-5070	UNDERCUT 3/4"	PROVIDE A SIGN STATING "THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS"	COAT HOOK	DOOR SIGN	HEAD	JAMB	SILL	
1	(E) ENTRY	3'-0" x 7'-0" x 1-3/4"	X	A	AL	AL								X						X					X			X			EXIST.	EXIST.	EXIST.	EXISTING DOOR TO REMAIN, AS REQUIRED, PROVIDE: 4, 5, 7, 9, 11, 20
2	KITCHEN	3'-0" x 7'-0" x 1-3/4"		C	HM	HM		X	X	X				X			X			X	X					X			3/A4.0	4/A4.0		
3	WOMEN	3'-0" x 7'-0" x 1-3/4"		C	HM	HM	X			X	X				X		X				X					X		X	X	3/A4.0	4/A4.0	-	1, 3, 6, 10, 11, 12, 13, 15, 17, 21
4	MEN	3'-0" x 7'-0" x 1-3/4"		C	HM	HM	X			X	X				X		X				X					X		X	X	3/A4.0	4/A4.0		1, 3, 6, 10, 11, 12, 13, 15, 17, 21
5	MEP CLOSET	3'-0" x 7'-0" x 1-3/4"		C	HM	HM		X	X	X				X			X			X	X					X			3/A4.0	4/A4.0	-	1, 3, 6, 10, 11, 12, 13, 15, 17, 21
6	(E) REAR	3'-0" x 7'-0" x 1-3/4"		B	HM	HM								X						X					X	X		X			EXIST.	EXIST.	EXIST.	EXISTING DOOR TO REMAIN, AS REQUIRED, PROVIDE: 4, 5, 7, 9, 11, 20

1. STAIN/PAINT ALL DOORS AND FRAMES EXCEPT ALUMINUM ENTRY DOOR 1. 2 - PAINT TO MATCH PT-3.
2. NOT USED
3. ALL HM FRAMES SHALL BE 16 GA STEEL U.O.N.
4. ALL LOCKS SHALL BE 7 PIN INTERCHANGEABLE CORE SUPPLIED AND INSTALLED BY THE G.C. ALL EXTERIOR LOCKS SHALL BE PROVIDED WITH CONSTRUCTION CORES. ALL PERMANENT CORES SHALL BE KEYED ALIKE.
5. ALL REQUIRED EXIT DOORS TO HAVE SIGN POSTED THAT READS, "THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED" OR "THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS OCCUPIED". ONLY.
6. MOUNT DOOR CLOSERS ON TOILET ROOM OR KITCHEN SIDE
7. INSTALL INTERNATIONAL SYMBOL OF ACCESSIBILITY ADJACENT DOOR - LATCH SIDE AT EXTERIOR.
8. NOT USED.
9. IF REQUIRED BY LOCAL CODE, STOREFRONT DOOR PANIC HARDWARE SHALL BE: DETEX FV40-EB-36"
10. UNDERCUT DOOR 3/4".
11. MAXIMUM DOOR OPERATING PRESSURE : 5 LBS INTERIOR : 8.5 LBS EXTERIOR MEASURED AT 90 DEGREES TO THE DOOR AT THE STRIKE EDGE. THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM. DOOR HARDWARE MUST BE OPERABLE BY A SINGLE HAND WITHOUT TIGHT GRASPING, TIGHT PINCHING OR TWISTING.
12. ADA COMPLIANT ACCESSIBILITY SIGNAGE WHERE REQUIRED (OR AS REQUIRED BY LOCAL JURISDICTION) - (1) MEN; (1) WOMEN
13. ROOM IDENTIFICATION SIGN IF REQUIRED BY CODE. VERIFY LOCAL REQUIREMENTS.
14. NOT USED.
15. DOORS AND FRAMES SHALL BE PAINTED, SEE FINISH SCHEDULE SHEET A200
16. PROVIDE WIDE ANGLE PEEP HOLE AT 48" A.F.F - IVES DOOR VIEWER 698
17. DOORS SHALL BE PAINT GRADE.
18. MOUNT CLOSER ON B.O.H. SIDE OF DOOR.
19. KITCHEN DOOR. FRAME SHALL BE PAINTED. SEE FINISH SCHEDULE SHEET A200
20. PROVIDE AND INSTALL 36" XCLUDER RODENT PROOF DOOR SWEEP (162602 - COMMERCIAL DOORS) AT EACH LEAF OF EXTERIOR DOORS - 2" HEIGHT.
21. PROVIDE "INSTAKEY" 7-PIN SMALL FORMAT INTERCHANGEABLE CORE (SFIC). COLOR TO MATCH DOOR HANDLE (SATIN CHROME AT ALL INTERIOR PASSAGE DOORS).

GENERAL NOTES:
1. ALL HARDWARE SHALL BE US32D U.O.N.
2. PERMANENT CORES SHALL BE SHIPPED TO THE RESTAURANT GENERAL MANAGER.

DOOR SCHEDULE & NOTES 2
1/4" = 1'-0"

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CORPORATE:

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4514 COLE AVENUE, SUITE 1100
DALLAS, TX 75205
972.248.9899

SEAL

07/19/2022

DICKEY'S - SAGINAW
2903 PIERCE ROAD
SUITE 109
SAGINAW, MI 48604

CLIENT : SMOKING CARDINALS, LLC
1113 CARRIE LYNN DRIVE
SAGINAW, MI 48706

MI-2197

DATE	DESCRIPTION
07/13/22	ISSUED FOR PERMIT

DATE	DESCRIPTION

SHEET TITLE
DOOR & HARDWARE SCHEDULES

SHEET NUMBER:
A4.0

JLLA PROJECT NUMBER:
DBQ-103

07/13/2022 - ISSUED FOR PERMIT

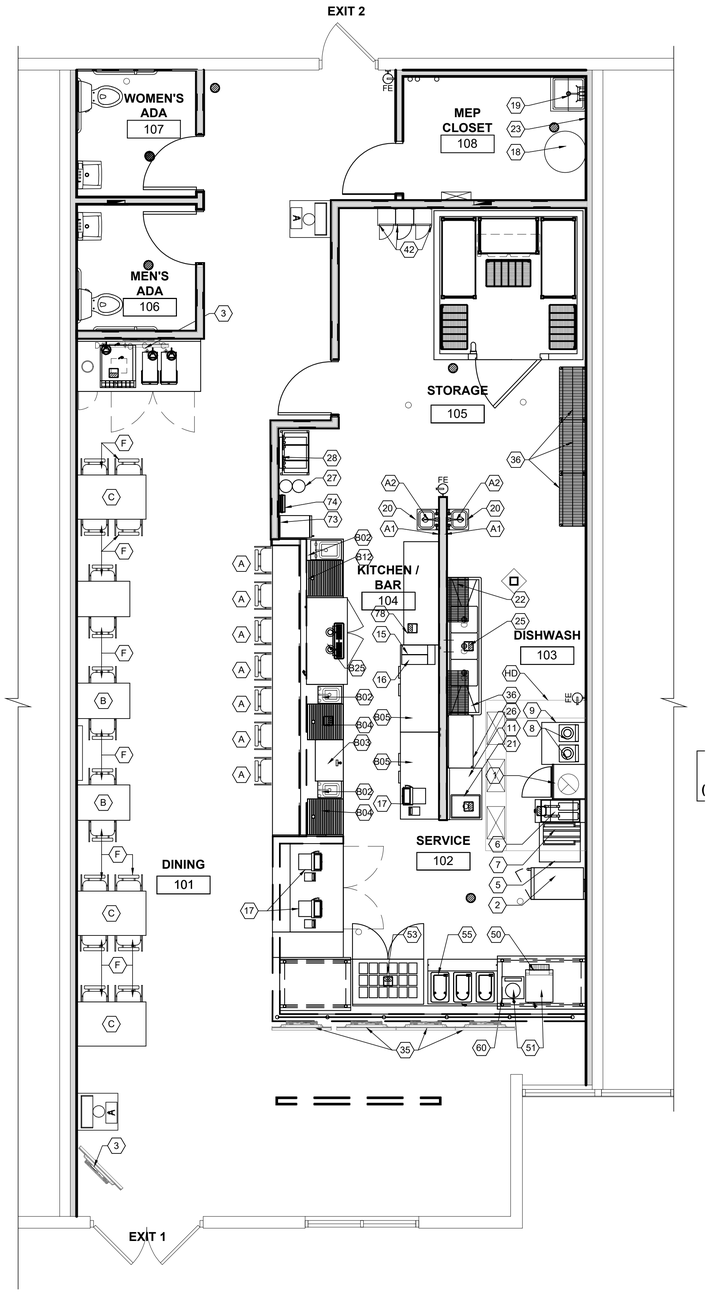

TABLE & CHAIR SCHEDULE

Mark	QTY	ABBREVATION	ITEM NAME	SIZE OR MODEL NO	SUPPLIED BY	INSTALLED BY	NOTES
F	16	CHR	CHAIR	SEE PLAN			
A	7	STL	STOOL	SEE PLAN			
B	3	4TBL	2 TOP TABLE	SEE PLAN			
C	3	4TBL	4 TOP TABLE	SEE PLAN			

GENERAL FOOD SERVICE HEALTH DEPARTMENT NOTES

1. ALL NEW EXHAUST HOODS WILL BE CONSTRUCTED TO MEET THE FOLLOWING STANDARDS, "NSF, UL, AND NFPA-96". ALL NEW HOODS TO BEAR UL CLASSIFIED LABEL WITHOUT DAMPERS IN EXHAUST VENT COLLARS. HOODS ARE DESIGNED TO MEET OR EXCEED 50 FPM CAPTURE VELOCITY AT THE COOKING SURFACE EDGE AND HAVE 6" MINIMUM OVERHANG AT ALL EXPOSED COOKING AREAS.
2. ALL COOKING EQUIPMENT UNDER EXHAUST HOODS ARE EITHER ON CASTERS WITH FLEXIBLE UTILITY QUICK DISCONNECTS OR FIXED ON STAINLESS STEEL LEGS AND SEALED TO WALLS WITH CLEAR SILICONE SEALANT.
3. THE HOODS AND EXHAUST DUCT SYSTEMS WILL BE PROVIDED WITH AN AUTOMATIC FIRE EXTINGUISHING SYSTEM.
4. ALL REFRIGERATION EQUIPMENT SHALL HAVE THERMOMETERS WHICH ARE EASILY READABLE, IN PROPER WORKING CONDITION AND ACCURATE WITHIN A RANGE OF PLUS OR MINUS TWO (2) DEGREES.
5. COUNTER TOP EQUIPMENT NOT READILY MOVABLE, WEIGHING OVER 80 POUNDS, WILL BE PROVIDED WITH LEGS OR FEET AT LEAST FOUR (4") INCHES HIGH.
6. ALL CHEMICAL INJECTION SYSTEMS MUST BE INSTALLED DOWNSTREAM FROM A VACUUM BREAKER OR AIR GAP, TO PREVENT POSSIBLE BACK SIPHONING TO THE CHEMICALS INTO THE WATER LINE SYSTEM.
7. ALL CUTTING BOARDS AND WORK SURFACES SHALL BE OF NON-WOOD CONSTRUCTION.
8. AN AISLE SPACE OF THIRTY (30") INCHES OR MORE SHALL BE PROVIDED WITHIN ALL WORK AND STORAGE AREAS.
9. BACK SPLASHES OF EQUIPMENT SHALL BE SEALED TO WALLS WITH CLEAR SILICONE.
10. VACUUM BREAKERS, WHEN USED, TO BE MINIMUM OF SIX (6") INCHES ABOVE THE FLOOD LEVEL RIM WITH NO SHUT OFF DEVICES BEYOND THE DISCHARGE OF THE VACUUM BREAKER.
11. A MINIMUM OF 50 FOOT CANDLES OF LIGHTING IS PROVIDED IN ALL FOOD PREPARATION AREAS, AND WALK-IN BOXES. LIGHTING TO BE SHIELDED OVER EXPOSED FOOD AND UTENSIL AREAS. A MINIMUM OF 35 FOOT CANDLES OF LIGHTING OVER FOOD SERVING AREAS.
12. ALL OPENINGS IN CONSTRUCTION WILL BE SEALED TO WITHIN 1/32 OF AN INCH.
13. THE USE OF SEALANTS MUST BE LISTED AS APPROVED BY THE NATIONAL SANITATION FOUNDATION (NSF) UNDER STANDARD C-2.
14. SEALANTS MAY BE USED ONLY IN STRUCTURALLY SOUND JOINTS AND SEAMS. SEALANTS MAY NOT BE UTILIZED IN FOOD AND SPLASH CONTACT SURFACES TO FILL OPEN SPACES OR VOIDS WHICH RESULT DUE TO IMPROPER FABRICATION. ANY OPENING IN EXCESS OF 1/8 INCH SHALL BE CONSIDERED EXCESSIVE AND MUST BE CLOSED USING PROPER FIELD JOINT.
15. OPENINGS AROUND SERVICE AND UTILITY LINES SHOULD BE CLOSED AS FAR AS POSSIBLE WITH COLLARS, GROMMETS AND FLEXIBLE FORM GASKETS. SEALANTS MAY NOT BE USED TO SEAL SERVICE AND UTILITY LINES TO WALLS OR ADJACENT PIECES OF EQUIPMENT.

EQUIPMENT PLAN
1/4" = 1'-0"

1

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SEAL

STATE OF MICHIGAN
RUSSELL M. BAUMANN
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DICKEY'S BARBECUE PIT est. 1941

MI-2197

DATE	DESCRIPTION
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	DATE	DESCRIPTION

SHEET TITLE

EQUIPMENT PLAN & SCHEDULE

SHEET NUMBER:

K1.0

JLLA PROJECT NUMBER:

DBQ-103

07/13/2022 - ISSUED FOR PERMIT

EQUIPMENT SCHEDULE

MARK	QTY	ITEM NAME	MANUFACTURER	MODEL NO.	PLUMBING				ELECTRICAL					SUPPLIED BY	INSTALLED BY	NOTES
					CW	HW	DRAIN	GAS	VOLTS	PHASE	AMPS	HP	KW			
	0	HIGH OPEN STAND	UNOX	XWARC-07EF-H										OWNER	GC	
HOOD		MECHANICAL HOOD	CAPTIVE-AIRE											OWNER	GC	RE: MECHANICAL
1	1	COMBI ELECTRIC OVEN	UNOX	XAVC-10FS-EPRM					204-240				28.5	OWNER	GC	1, 5
	1	EXTENDED WARRANTY		UNOX.LONG LIFE4										OWNER	GC	
	1	INSTALLATION KIT		XUCC03										OWNER	GC	6, 7
	1	QT WATER FILTER SYSTEM, DUAL	STANDARD OPTIPURE	UX170-5208A QTI-CR										OWNER	GC	
	3	HYPER SMOKER	UNOX	XUC090										OWNER	GC	
	1	HAND SHOWER KIT	UNOX	XHC001										OWNER	GC	
	1	HIGH OPEN STAND	UNOX	XWARC-07EF-H										OWNER	GC	
	1	CASTERS KIT	UNOX	XUC10										OWNER	GC	
	10	FLAT STAINLESS STEEL GRID	UNOX	GRP560										OWNER	GC	
2	1	MOBILE HEATED UNIT	FOOR WARMING EQUIP. COP., INC	PHTT-12					120	1	18.3			OWNER	GC	
3	2	40" POLE MOUNTED TELEVISIONTBD	TBD	TBD										OWNER	GC	
4	3	FIRE EXTINGUISHER	10 LB B.C.	PER CODE										GC	GC	
5	1	UNDER COUNTER FREEZER	ATOSA USA, INC.	MGF8405GR					115	1	1.8	1/5		OWNER	GC	
6	1	GAS FLOOR FRYER	GLOBE	GFF35G				3/4"						OWNER	GC	
	1	TANK CLEANING SET												OWNER	GC	
	1	MOVEABLE GAS CONNECTION KIT	KROWNE	M7548K										OWNER	GC	
7	1	FRENCH FRY WARMER	HATCO	GRFFB-120-QS					120	1	6.3			OWNER	GC	
8	2	COUNTERTOP INDUCTION RANGE	GLOBE	GIR18					120	1	1.5			OWNER	GC	
	2	PREMIUM INDUCTION STOCK POT	WINCO	SST-24										OWNER	GC	
9	0	STAINLESS STEEL WORK TABLE	JOHN BOOS	ST6R1.5-3060GSK-X										OWNER	GC	
10	0	STAINLESS STEEL WORK TABLE	JOHN BOOS	ST6-36120GSK-X										OWNER	GC	
11	1	CABINET, ENCLOSED, BUN /FOOD PAN	CAMBRO	UPCH400110										OWNER	GC	
12	1	WALL MOUNTED BUN RACK	STANFORD SONOMA	STAINLESS STEEL										OWNER	VENDOR	
13	1	GLASS DOOR MERCHANDISER	TURBO AIR	TMG-35SD-N					115	1	3.3	1/3		OWNER	GC	
14	1	BEVERAGE DISPENSER (8 VALVES)	LANCER CORP.	IBD25					115	1	3			OWNER	VENDOR /GC	
15	2	TEA BREWER	BUNN	ITCB-DV-DBC										OWNER	VENDOR /GC	
16	2	TEA DISPENSER	BUNN											OWNER	VENDOR /GC	
17	2	POS SYSTEM	DETECTO	ASP160										OWNER	GC	
18	E	WATER HEATER	SEE PLUMBING	SEE PLUMBING										EXISTING	EXISTING	
19	1	MOP SINK AND FAUCET (NEW)	SEE PLUMBING	SEE PLUMBING										EXISTING	EXISTING	
20	1	NEW WALL MOUNTED HAND SINK	JOHN BOOS	PBHS-W-1410-P-SSLR-X	1/2"	1/2"	1 1/2A"							OWNER	GC	
21	1	ONE (1) COMPARTMENT SINK	JOHN BOOS	1B184-1D18L-X	1/2"	1/2"	1 1/2A"							OWNER	GC	
	1	DRAIN LEVERT	KROWNE	22-204										OWNER	GC	
	1	WALL MOUNT FAUCET	KROWNE	12-808L										OWNER	GC	
22	1	WALL MOUNTED CHROME PLATED WIRE SHELF	WINCO	VC-1836										OWNER	GC	
	1	WIRE SHELF MOUNTING BRACKET	WINCO	VCB-18										OWNER	GC	
23	2	MOP SINK SHELF	JOHN BOOS	PB-MSS824-X												
24	0	STAINLESS STEEL WORK TABLE	JOHN BOOS	ST6-3684GSK-X												
25	1	THREE (3) COMPARTMENT SINK	JOHN BOOS	E3S8-1620-14T18	1/2"	1/2"	1 1/2A"							OWNER	GC	
	3	DRAIN LEVER	KROWNE	22-204										OWNER	GC	
	1	PRE-RINSE FAUCET	KROWNE	17-109WL										OWNER	GC	
26	1	CAN OPENER	WINCO	CO-3N										OWNER	GC	
27	1	CO2	COMPRESS GAS TANKS	WITH GAUGES										OWNER	VENDOR /GC	
28	1	BAG-N-BOX SODA SYSTEM	BY PURVEYOR											OWNER	VENDOR /GC	
30	0	REACH-IN COOLER	TURBO AIR	M3R47-2-N					115	1	2.8	1/3		OWNER	GC	BOTH DOORS HINGED. W/ CASTER SET
31	1	REACH-IN FREEZER	TURBO AIR	M3F47-2-N					115	1	6.3	1/2		OWNER	GC	BOTH DOORS HINGED. W/ CASTER SET
33	3	EPOXY COATED WIRE SHELVING	WINCO	VEX-2460										OWNER	GC	2 PER CASE
	0	EPOXY COATED, GREEN SHELF POSTS	WINCO	VEX-72P										OWNER	GC	4 PER CASE
35	3	DIGITAL MENU BOARD (40" TV'S)	UNITED MEDIA SOALUTIONS	VENDOR										VENDOR	VENDOR	
36	2	CHROME PLATED WIRE SHELVING	WINCO	VC-1836										OWNER	GC	2 PER CASE
	4	CHROME PLATED SHELF POSTS	WINCO	VC-72P										OWNER	GC	4 PER CASE
50	1	TOASTER, CONTACT GRILL, CONVEYOR TPE	APW WYATTA	M-95-2					208	1	13.4			OWNER	GC	
51	2	DECORATIVE HEAT LAMPS (COPPER)	HATCO	DL-775					120	1				OWNER	GC	2
53	1	COLD WELL UNIT, DROP-IN, REFRIGERATED	WELLS MANUFACTURING	RCP-200					115	1	5.5	1/4		OWNER	GC	
55	1	HOT WELL UNIT, DROP-IN, ELECTRIC	WELLS MANUFACTURING	MOD-200TDM					208/240	1			1.4/1.65	OWNER	GC	
60	1	PRICE COMPUTING SCALE	GLOBE	GLS30					115	1	0.1			OWNER	GC	
73	1	NUGGET ICE MAKER	SCOTSMAN	NH0422A-1					115	1	12.9			OWNER	GC	
	1	ICE LEVEL CONTROL KIT	SCOTSMAN											OWNER	GC	
B05	2	BACK BAR CABINET, REFRIGERATED	KROWNE	BS60					115	1	6	1/4		OWNER	GC	
B25	1	DRAFT BEER COOLER	KROWNE	DB60					115	1	6	1/4		OWNER	GC	
B03	1	ICE BIN	KROWNE	18-30-7										OWNER	GC	
77	0	DUNNAGE RACK	WINCO											OWNER	GC	
B12	1	GLASS FROSTER	KROWNE	MC24B					115	1	5.2	1/3		OWNER	GC	
B04	3	GLASS RACK	KROWNE	18-GSB1										OWNER	GC	
79	0	36"X60" STAINLESS WORK TABLE														34" HEIGHT A.F.F.
B01	0	UNDER SINK UNITS	KROWNE	18-53C										OWNER	GC	
78	0	36"X72" STAINLESS WORK TABLE												OWNER	GC	34" HEIGHT A.F.F.
	1	ICE BIN	SCOTSMAN											OWNER	GC	
74	1	FILTRATION SYSTEM	EVERPURE											OWNER	GC	
42	2	LOCKER	OMCAN USA	13132										OWNER	GC	
	1	ICE BIN	SCOTSMAN											OWNER	GC	
ACCESSORY SCHEDULE																
A1	2	LIQUID SOAP DISPENSER	KIMBERLY CLARK	92145, BLACK										OWNER	GC	
A2	4	WALL MOUNTED PAPER TOWEL HOLDER	STANFORD SONOMA	CUSTOM BLACK IRON										OWNER	GC	4

NOTES:

1. CORD AND PLUG NOT SUPPLIED BY FACTORY
2. (RT)-MOUNTING STYLE, (R)-SWITCH LOCATION, (DL-CORD-BK)-BLACK CORD, (DL-TRACK-8B) - TRACK MOUNT BAR, (DL-ADAPT-BL)-TRACK ADAPTER.
3. FAUCET INCLUDED.
4. LOCATIONS SHOWN FOR REFERENCE, VERIFY LOCATION W/ OWNER.
5. IT IS THE SOLE RESPONSIBILITY OF THE OWNERE/OPERATOR/PURCHASER OF THIS EQUIPMENT TO VERIFY THAT THE INCOMING WATER SUPPLY IS COMPREHENSIVE TESTED (FREE CHLORINE, CHLORAMINE, TDS (TOTAL DISSOLVD SOLIDS), SILICA, PH, TH (TOTAL HARDNESS), CHLORIDES & ALKALINITY) & IF REQUIRED, PROVIDED A MEANS OF WATER TREATEMENT THAT WOULD MEET THE MINIMUM REQUIREMENTS OF THE MANUFACTURER'S WATER QUALITY STANDARDS AS OUTLINED ON THE PRODUCT SPEC SHEET. NONCOMPLIANCE WITH THESE MINIMUM STANDARDS WILL POTENTIALLY DAMAGE THIS EQUIPMENT AND/OR COMPONENTS & VOID THE ORIGINAL EQUIPMENT MANUFACTURER'S WARRANTY.
6. (2) 10" CTO-Q10 CARTRIDGE & (1) 15" CTO-QCR CARTRIDGE, 20,000 GALLON CAPACITY, 2.5 GPM FLOW RATE, REDUCES CHLORINE, TASTE & ODOR - 6,000 GALLON CAPACITY, 0.5 GPM, REDUCES CHLORAMINE, 0.5 MICRON PARTICULATE.
7. WATER FILTER INSTALLATION - MUST BE PURCHASED WITH CORRESPONDING UNIT LONG. LIFE 4 AND INSTALLATION MUST TAKE PLACE AT SAME TIME AS UNIT INSTALLATION (NOTE: INSTALLATION CAN ONLY BE PURCHASED WHEN THE WATER FILTRATION IS ALSO PURCHASED FROM UNOX) (NET)

JLL Architecture, LLC

200 East Randolph Drive
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CORPORATE:

DICKEY'S BARBECUE RESTAURANT, INC.
4514 COLE AVENUE, SUITE 1100
DALLAS, TX 75205
972.248.9899

SEAL

07/19/2022

DICKEY'S - SAGINAW
2903 PIERCE ROAD
SUITE 109
SAGINAW, MI 48604

CLIENT : SMOKING CARDINALS, LLC
1113 CARRIE LYNN DRIVE
SAGINAW, MI 48706

DICKEY'S BARBECUE PIT est. 1941

MI-2197

DATE	DESCRIPTION
07/13/22	ISSUED FOR PERMIT

	DATE	DESCRIPTION

SHEET TITLE

EQUIPMENT SCHEDULE

SHEET NUMBER:

K1.1

JLLA PROJECT NUMBER:

DBQ-103

07/13/2022 - ISSUED FOR PERMIT

ABBREVIATIONS

ABBREV1

NOTE: ABBREVIATIONS MAY OR MAY NOT HAVE PERIODS, BUT SHALL BE READ AS SAME.

A.B.	ANCHOR BOLT
A.B.C.	AGGREGATE BASE COURSE
ACI	AMERICAN CONCRETE INSTITUTE
A/C	AIR CONDITIONER
A.F.F.	ABOVE FINISHED FLOOR
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI	AMERICAN IRON AND STEEL INSTITUTE
AITC	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION
ALT.	ALTERNATE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APA	AMERICAN PLYWOOD ASSOCIATION
ARCH'L	ARCHITECTURAL
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS	AMERICAN WELDING SOCIETY
A.W.H.S.	AUTOMATIC WELDED HEADED STUDS
A.W.T.S.	AUTOMATIC WELDED THREADED STUDS
BM	BEAM
B.F.F	BELOW FINISHED FLOOR
BLK	BLOCK
B.O.B.	BOTTOM OF BEAM
B.O.D.	BOTTOM OF DECK
B.O.F.	BOTTOM OF FOOTING
BRG	BEARING
C	CAMBER
C.C.	CENTERLINE TO CENTERLINE
CFS	COLD FORMED STEEL
C.G.	CENTER OF GRAVITY
C.I.P.	CAST IN PLACE
C.L.	CENTERLINE
C.L.B.	CENTERLINE OF BEAM
C.L.C.	CENTERLINE OF COLUMN
C.L.F.	CENTERLINE OF FOOTING
C.L.W.	CENTERLINE OF WALL
CLR	CLEAR
CONC	CONCRETE
CONC C.J.	CONCRETE CONTROL JOINT
CONC S.J.	CONCRETE SAWCUT JOINT
C.M.U.	CONCRETE MASONRY UNIT
CONN	CONNECTION
CONT	CONTINUOUS
CRSI	CONCRETE REINFORCING STEEL INSTITUTE
D.F. (D.F.L.)	DOUGLAS FIR LARCH
DL	DEAD LOAD
DIA	DIAMETER
DN	DOWN
DWG(S)	DRAWING(S)
E.C.	END TO CENTERLINE
E.E.	END TO END
E.O.S.	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
EXP. BOLT (E.B.)	EXPANSION BOLT
EXP. JT (E.J.)	EXPANSION JOINT
E.W.	EACH WAY
F.F.	FINISHED FLOOR
F.O.M.	FACE OF MEMBER
F.O.S.	FACE OF STEEL
F.O.W.	FACE OF WALL
GA	GAGE (UNIT OF MEASUREMENT)
GALV	GALVANIZED
G.S.N.	GENERAL STRUCTURAL NOTES
GLB (GLULAM)	GLUED-LAMINATED BEAM
H.F.	HEM FIR
HORIZ	HORIZONTAL REINFORCING
H.S.	HEADED STUDS
IBC	INTERNATIONAL BUILDING CODE
ICBO	INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS
ICC	INTERNATIONAL CODE COUNCIL
ICF	INSULATED CONCRETE FORMS
I.F.W.	INSIDE FACE OF WALL
I.O.D.	INTERPRETATION OF DRAWINGS
JST	JOIST
K(KIP)	1000 POUNDS
KLF	KIPS PER LINEAR FOOT
LBS (#)	POUNDS
LGR	LEDGER
LGS	LIGHT GAGE STEEL
LGSEA	LIGHT GAGE STEEL ENGINEERS ASSOCIATION
L.O.D.	LOCATION OF DETAILS
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
MAS	MASONRY
MAS C.J.	MASONRY CONTROL JOINT
MAX	MAXIMUM
MBMA	METAL BUILDING MANUFACTURERS ASSOCIATION
MECH'L	MECHANICAL
MFR'D	MANUFACTURERED
MFR('S)	MANUFACTURER('S)
MIN	MINIMUM
N/A	NOT APPLICABLE
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.F.W.	OUTSIDE FACE OF WALL
OPP	OPPOSITE
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PAF	POWDER ACTUATED FASTENER
PDPAT	SIMPSON POWDER DRIVEN PIN "A" TOP HAT
PDPT	SIMPSON POWDER DRIVEN PIN WITH TOP HAT (0.300" HEAD)
PCI	PRECAST/PRESTRESSED CONCRETE INSTITUTE
P.C.	PRECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PLF	POUNDS PER LINEAR FOOT
±	PLUS OR MINUS
PREFAB	PREFABRICATED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POST-TENSIONED
PTI	POST-TENSIONING INSTITUTE
REINF	REINFORCING
SDI	STEEL DECK INSTITUTE
SLH	SHORT LEG HORIZONTAL
SLV	SHORT LEG VERTICAL
SJI	STEEL JOIST INSTITUTE
SIM	SIMILAR
SQ.	SQUARE
SSMA	STEEL STUD MANUFACTURERS ASSOCIATION
STD	STANDARD
STL	STEEL
TL	TOTAL LOAD
T.O.B.	TOP OF BEAM
T.O.C.T.	TOP OF CONCRETE TOPPING
T.O.D.	TOP OF DECK
T.O.F.	TOP OF FOOTING
T.O.L.	TOP OF LEDGER
T.O.M.	TOP OF MASONRY
T.O.P.	TOP OF PLATE
T.O.P.C.	TOP OF PRECAST CONCRETE
T.O.S.	TOP OF STEEL
T.O.W.	TOP OF WALL
TPI	TRUSS PLATE INSTITUTE
TYP	TYPICAL
T&G	TONGUE AND GROOVE
UBC	UNIFORM BUILDING CODE
U.N.O.	UNLESS NOTED OTHERWISE
VERT	VERTICAL REINFORCING
WCLA	WEST COAST LUMBER ASSOCIATION
WCLIB	WEST COAST LUMBER INSPECTION BUREAU
W.W.F.	WELDED WIRE FABRIC
WWPA	WESTERN WOOD PRODUCTS ASSOCIATION
W/	WITH
W/C	WATER TO CEMENT RATIO
W/O	WITHOUT

GENERAL STRUCTURAL NOTES

(APPLY UNLESS NOTED OTHERWISE ON DRAWINGS)

BUILDING CODE:

2015 INTERNATIONAL BUILDING CODE

LOADS:

ROOFS:

ROOF LIVE LOAD = 20 PSF.
GROUND SNOW LOAD, Pg = 35 PSF.

LATERAL:

WIND:

ULTIMATE DESIGN WIND SPEED (3-SECOND GUST), V(ult) = 115 MPH.
RISK CATEGORY, II.
EXPOSURE C.

SEISMIC:

RISK CATEGORY, II
MAPPED SHORT PERIOD SPECTRAL ACCELERATION, Ss = .064
MAPPED ONE SECOND SPECTRAL ACCELERATION, S1 = .039
SOIL SITE CLASS, D.
DESIGN SHORT PERIOD SPECTRAL ACCELERATION, Sds = .068
DESIGN ONE SECOND SPECTRAL ACCELERATION, Sd1 = .063
SEISMIC DESIGN CATEGORY, A.

STRUCTURAL STEEL:

GENERAL:

ALL STEEL CONSTRUCTION PER REFERENCED AISC STEEL CONSTRUCTION MANUAL. ALL MISCELLANEOUS STEEL UNLESS NOTED OTHERWISE SHALL BE ASTM A36 (Fy = 36 KSI).

UNLESS NOTED OTHERWISE, ALL BOLTS SHALL BE ASTM A307.

WELDING:

UNLESS NOTED OTHERWISE, ALL SHOP AND FIELD WELDS PER REFERENCED EDITION OF THE AWS STANDARDS. ALL WELDING SHALL BE PERFORMED BY WELDERS HOLDING VALID CERTIFICATES AND HAVING DOCUMENTED CURRENT EXPERIENCE IN THE TYPE OF WELD SHOWN ON THE DRAWINGS OR NOTES. CERTIFICATES SHALL BE THOSE ISSUED BY AN ACCEPTED TESTING AGENCY. ALL WELDING DONE BY E70 SERIES LOW HYDROGEN RODS UNLESS NOTED OTHERWISE. THESE DRAWINGS DO NOT DISTINGUISH BETWEEN SHOP AND FIELD WELDS; THE CONTRACTOR MAY SHOP WELD OR FIELD WELD AT THEIR DISCRETION. SHOP WELDS AND FIELD WELDS SHALL BE SHOWN ON THE SHOP DRAWINGS SUBMITTED FOR REVIEW.

QUICKFRAMES ADJUSTABLE STEEL ROOF FRAMES:
(ALTERNATE TO TYPICAL STEEL OPENING FRAMES)

UNLESS SPECIFICALLY EXCLUDED ON PLAN, CONTRACTOR MAY PROVIDE SEALED SHOP DRAWINGS AND CALCULATIONS FOR 16, 12 OR 10 GAGE (30 KSI) QUICKFRAMES ADJUSTABLE FRAMES AT THE MECHANICAL ROOFTOP UNITS AND/OR ROOF PENETRATIONS. (NOTE: THIS MUST BE SUBMITTED AS A DEFERRED SUBMITTAL PER REQUIREMENTS BELOW.)

THESE QUICKFRAMES, OR THE OPENING THEY SPAN, SHALL NOT BE PLACED SO AS TO INTERFERE WITH THE REQUIREMENTS OF OTHER STRUCTURAL ELEMENTS (I.E. DRAG STRUTS, BEAMS, PURLINS, SUBPURLINS, ANGLES, ETC.) WITHOUT THE PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.

FOR ADDITIONAL INFORMATION AT OPENINGS IN STEEL ROOF FRAMING, SEE TYPICAL DETAILS.

QUICKFRAMES ADJUSTABLE FRAMES SHALL BE AS MANUFACTURED BY QUICKFRAMES USA, LLC, MESA, ARIZONA. IT SHALL BE INSTALLED PER ALL MANUFACTURER'S RECOMMENDATIONS.

GENERAL NOTES:

THE STRUCTURAL CONSTRUCTION DOCUMENTS REPRESENT THE FINISHED STRUCTURE. EXCEPT WHERE NOTED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. THE STRUCTURAL ENGINEER OF RECORD SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES, SEQUENCES FOR PROCEDURE OF CONSTRUCTION, OR THE SAFETY PRECAUTIONS AND THE PROGRAMS INCIDENT THERETO (NOR SHALL OBSERVATION VISITS TO THE SITE INCLUDE INSPECTION OF THESE ITEMS).

WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE REFERENCED EDITION AND/OR ADDENDA. ANY ENGINEERING DESIGN, PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW, SHALL BEAR THE SEAL OF A REGISTERED ENGINEER RECOGNIZED BY THE BUILDING CODE JURISDICTION OF THIS PROJECT.

NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT, AND/OR AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN.

VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS AND FIELD CONDITIONS. BUILDING DIMENSIONS AND ELEVATIONS, WHERE SHOWN, WERE PROVIDED BY THE ARCHITECT AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND COORDINATE ALL DIMENSIONS PRIOR TO PROCEEDING WITH THE WORK. ANY DISCREPANCIES SHALL BE RESOLVED THROUGH THE ARCHITECT. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING AND ELECTRICAL ITEMS WITH THE APPROPRIATE TRADE DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION.

TYPICAL DETAILS MAY NOT NECESSARILY BE CUT ON PLANS, BUT APPLY UNLESS NOTED OTHERWISE.

CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED CONSTRUCTION. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT.

OPTIONS AND SUBSTITUTIONS ARE FOR CONTRACTOR'S CONVENIENCE. IF AN OPTION OR SUBSTITUTION IS CHOSEN, CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CHANGES, APPROVALS AND THE COORDINATION OF THE WORK WITH ALL RELATED TRADES AND SUPPLIERS.

SPECIAL INSPECTION – STRUCTURAL ONLY:

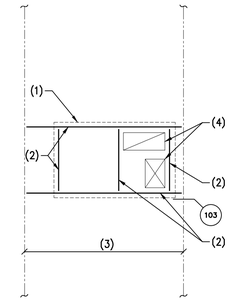
SPECIAL INSPECTION IS TO BE PROVIDED FOR THE ITEMS LISTED BELOW IN ADDITION TO THE INSPECTIONS CONDUCTED BY THE BUILDING JURISDICTION. "SPECIAL STRUCTURAL INSPECTION" SHALL NOT RELIEVE THE OWNER OR THEIR AGENT FROM REQUESTING THE BUILDING JURISDICTION INSPECTIONS REQUIRED BY SECTION 110 OF THE INTERNATIONAL BUILDING CODE. SPECIAL INSPECTION IS REQUIRED PER CHAPTER 17 FOR THE FOLLOWING:

STEEL CONSTRUCTION:

1. WELDING:
A. VERIFICATION OF VALID WELDER'S CERTIFICATES.
B. PERIODIC VISUAL INSPECTION OF ALL SHOP AND FIELD WELDS.
C. ALL STRUCTURAL STEEL FABRICATORS SHALL EMPLOY AN AWS CERTIFIED INDEPENDENT TESTING AGENCY TO PROVIDE SHOP WELD INSPECTIONS PER CODE. INSPECTION REPORTS AND REQUIRED DOCUMENTATION SHALL BE SUBMITTED TO ENGINEER OF RECORD PRIOR TO STEEL INSTALLATION.

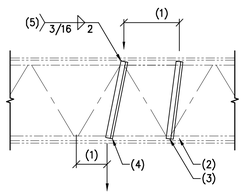
DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:

A. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED TO BE CERTAIN IT CONFORMS TO THE APPROVED DESIGN DRAWINGS AND SPECIFICATION.
B. THE SPECIAL INSPECTOR IS NOT AUTHORIZED TO APPROVE DEVIATIONS FROM THE DESIGN DRAWINGS OR SPECIFICATIONS, AND ALL DEVIATIONS MUST BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO PROCEEDING WITH THE WORK. ALL REQUESTS FOR DEVIATIONS SHALL BE INITIATED BY THE CONTRACTOR VIA WRITTEN REQUEST FOR INFORMATION (RFI).
C. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE ENGINEER OR ARCHITECT OF RECORD. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE DESIGN AUTHORITY AND THE BUILDING OFFICIAL.
D. THE CONTRACTOR SHALL PROVIDE THE SPECIAL INSPECTOR ACCESS TO ALL ITEMS REQUIRING SPECIAL INSPECTION. ACCESS SHALL BE PROVIDED BY IN-PLACE LADDERS, SCAFFOLDS, LIFTS AND/OR OTHER EQUIPMENT OPERATED BY THE CONTRACTOR'S PERSONNEL AS REQUIRED FOR SAFE OBSERVATION. THE SPECIAL INSPECTOR IS NOT RESPONSIBLE OR AUTHORIZED TO OPERATE CONTRACTOR'S EQUIPMENT.
E. UPON COMPLETION OF THE ASSIGNED WORK THE ENGINEER OR ARCHITECT SHALL COMPLETE AND SIGN THE APPROPRIATE FORMS CERTIFYING THAT TO THE BEST OF THEIR KNOWLEDGE THE WORK IS IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS, AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE CODE.



NOTES:
1. NEW MECH'L UNIT.
2. 4"x4"x1/4" STEEL ANGLE – TYP.
3. EXISTING JOIST.
4. NEW DUCT OPENINGS.

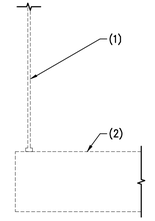
105 PLAN VIEW RTU — 1308-01M — NO SCALE



NOTES:
1. ADDITIONAL MEMBER REQUIRED WHEN LOAD IS MORE THAN 3" FROM PANEL POINT.
2. STEEL JOIST.
3. STEEL ANGLE 2"x2"x3/16" EACH SIDE FROM TOP CHORD TO NEAREST BOTTOM CHORD PANEL POINT.
4. STEEL ANGLE 2"x2"x3/16" EACH SIDE FROM BOTTOM CHORD TO NEAREST TOP CHORD PANEL POINT.
5. TYP EACH ANGLE EACH END.

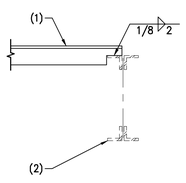
NOTE:
PROVIDE THIS DETAIL WHEN CONCENTRATED LOAD EXCEEDS 100 LBS. –NOTIFY ENGINEER WHEN LOAD EXCEEDS 400 LBS.

101 ADDITIONAL WEB MEMBERS FOR CONCENTRATED LOAD OCCURRING AWAY FROM JOIST PANEL POINT — 1301-05M — NO SCALE



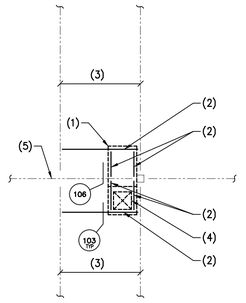
NOTES:
1. 1/2" DIA THREADED ROD SEE DETAIL 02 FOR TOP CONNECTION.
2. HOOD BY OTHERS.

01 HOOD SUPPORT — 22-1050 — NO SCALE



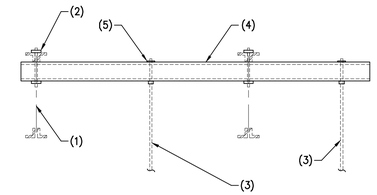
NOTES:
1. STEEL ANGLE – COPE AS REQUIRED.
2. EXISTING JOIST GIRDER.

106 STEEL ANGLE TO EXISTING JOIST GIRDER — 1308-11 — NO SCALE



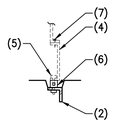
NOTES:
1. NEW MECH'L UNIT.
2. 4"x4"x1/4" STEEL ANGLE – TYP.
3. EXISTING JOIST.
4. NEW DUCT OPENINGS.
5. EXISTING JOIST GIRDER.

102 PLAN – MAU — 22-1050 — NO SCALE

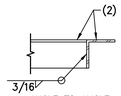


NOTES:
1. 1/2" DIA BOLT WITH 1/4"x2"x2" WASHER ON TOP.
2. THREADED ROD.
3. UNISTRUT P1001.
4. 1/4" SQ. PLATE WASHER AND NUTS TOP AND BOTTOM.

02 THREADED ROD TOP CONNECTION — 22-1050 — NO SCALE

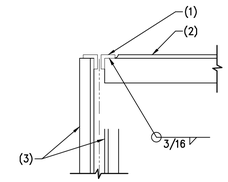


A CURB TO ANGLE



B ANGLE TO ANGLE

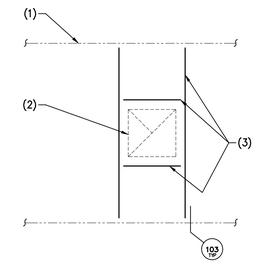
NOTES:
1. EXISTING STEEL JOIST.
2. NEW ANGLE – 4"x4"x1/4" SEE PLAN FOR LOCATION.
3. SEE DETAIL 101 FOR ADDITIONAL WEB INFORMATION.
4. CURB BY OTHERS.
5. 1/2" DIA BOLT PER SCHEDULE USE 1" DIA WASHERS. (MIN 2 PER SIDE.)
6. 1 1/2"x1 1/2"x12 GAGE TUBE STEEL.
7. #12 SCREWS PER SCHEDULE ALL AROUND UNIT.



UNIT	#12 SCREW SPACING	BOLT SPACING
MUA	12" O.C.	16" O.C.
EF	3 PER SIDE	2 PER SIDE
RTU	12" O.C.	24" O.C.

NOTE:
EXISTING ROOF NOT SHOWN FOR CLARITY.

103 ANGLE CONNECTION UNDER A/C UNIT — 22-1050 — NO SCALE



NOTES:
1. EXISTING JOIST.
2. NEW OPENING.
3. 4"x4"x1/4" STEEL ANGLE U.N.O.

104 PLAN – NEW OPENING IN EXISTING ROOF — 22-1050 — NO SCALE

FOR ADDITIONAL INFORMATION SHOWN BUT NOT NOTED, SEE GENERAL STRUCTURAL NOTES ON SHEET S1.1 AND TYPICAL DETAIL SHEETS.

THESE DRAWINGS/CALCULATIONS ARE CONSIDERED PRELIMINARY –NOT FOR CONSTRUCTION OR RECORDING UNLESS THE STRUCTURAL ENGINEER OF RECORD'S SEAL IS AFFIXED WITH WRITTEN SIGNATURE.

PROJECT NUMBER	22-1050	PROJECT MANAGER	RAD
PROJECT ENGINEER	RAD	PROJECT DRAFTER	MDF

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SAGINAW, MI 48706

DICKEY'S BARBECUE PIT EST. 1941

MI-2197

DATE	DESCRIPTION

	DATE	DESCRIPTION

SHEET TITLE

G.S.N. AND DETAILS

SHEET NUMBER:

S1.1

IDS4 PROJECT NUMBER:

##/##/2022 - ISSUED FOR PERMIT

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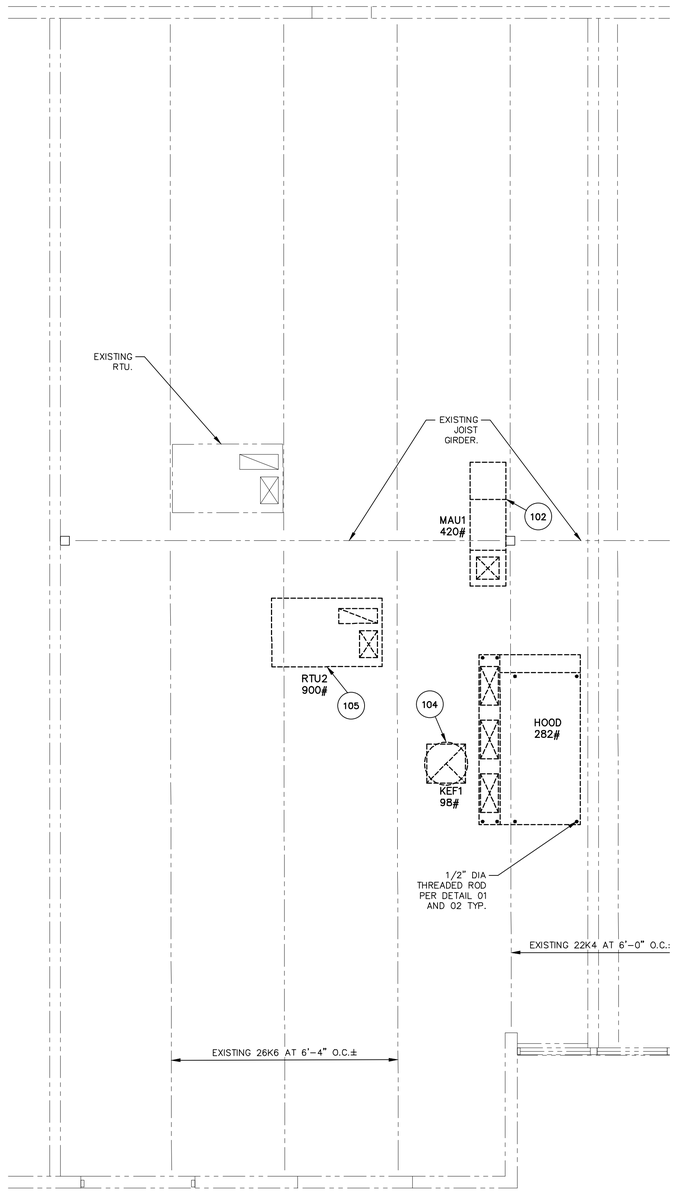

ROOF FRAMING PLAN

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

FOR ADDITIONAL INFORMATION SHOWN BUT NOT NOTED, SEE GENERAL STRUCTURAL NOTES ON SHEET S1.1 AND TYPICAL DETAIL SHEETS.

THESE DRAWINGS/CALCULATIONS ARE CONSIDERED PRELIMINARY –NOT FOR CONSTRUCTION OR RECORDING UNLESS THE STRUCTURAL ENGINEER OF RECORD'S SEAL IS AFFIXED WITH WRITTEN SIGNATURE.

PROJECT NUMBER	22–1050	PROJECT MANAGER	RAD
PROJECT ENGINEER	RAD	PROJECT DRAFTER	MDF

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SEAL

STATE OF MICHIGAN
RICHARD DAHLMANN
ENGINEER
No. 6201063306
PROFESSIONAL ENGINEER
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1113 CARRIE LYNN DRIVE
SAGINAW, MI 48706

DICKEY'S BARBECUE PIT

MI-2197

DATE	DESCRIPTION

	DATE	DESCRIPTION

SHEET TITLE

ROOF FRAMING PLAN

SHEET NUMBER:

S2.1

IDS4 PROJECT NUMBER:

##/##/2022 - ISSUED FOR PERMIT

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MECHANICAL SYMBOLS LEGEND

GRILLES/DIFFUSERS:

- SUPPLY DIFFUSER
- SUPPLY DIFFUSER WITH 3–WAY THROW
- SUPPLY DIFFUSER WITH 2–WAY THROW
- SIDEWALL MOUNTED SUPPLY REGISTER
- RETURN GRILLE
- EXHAUST GRILLE

DOUBLE LINE DUCT SYMBOLS:

- NEW SHEET METAL DUCTWORK
- SUPPLY OR OUTSIDE AIR DUCT
- RETURN AIR DUCT
- EXHAUST AIR DUCT
- DUCTWORK TRANSITION
- DUCTWORK TRANSITION – RECTANGULAR TO ROUND
- INCLINED RISE IN DUCTWORK (R)
- INCLINED DROP IN DUCTWORK (D)
- SUPPLY DUCT ELBOW UP OR DOWN
- RETURN DUCT ELBOW UP OR DOWN
- EXHAUST DUCT ELBOW UP OR DOWN
- DUCT BRANCH TAKE–OFF
- ROUND SPIN–IN WITH DAMPER
- FLEXIBLE DUCT CONNECTION
- VOLUME DAMPER (VD)
- FLEXIBLE DUCTWORK

EQUIPMENT:

- CEILING MOUNTED EXHAUST FAN
- ROOF MOUNTED EXHAUST FAN
- PACKAGED ROOFTOP UNIT
- MAKE–UP AIR UNIT
- THERMOSTAT (T)
- DUCT MOUNTED SMOKE DETECTOR

GENERAL REFERENCES/NOTATIONS:

- SQUARE NOTE DESIGNATION (#)
- HEXAGON NOTE DESIGNATION (#)
- REVISION DESIGNATION (#)
- MECHANICAL EQUIPMENT DESIGNATION (TYPE #)
- DIFFUSER DESIGNATION AND CFM (? / CFM)

SYMBOLS LEGEND NOTES:

1. REFER TO SPECIFICATIONS AND PLAN NOTES FOR DETAILED DESCRIPTION OF ALL DEVICES SHOWN INTHIS SCHEDULE, PROVIDED BY THIS CONTRACTOR.

MECHANICAL SPECIFICATIONS

PROVIDE EQUIPMENT INDICATED ON THE DRAWINGS, AND AS REQUIRED FOR A COMPLETE FUNCTIONING SYSTEM.

DEFINITIONS: FURNISH MEANS TO SUPPLY AND DELIVER TO PROJECT SITE, READY FOR INSTALLATION. INSTALL MEANS TO PLACE IN POSITION AND MAKE CONNECTIONS FOR SERVICE OR USE. PROVIDE MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR INTENDED USE.

WARRANTY: PROVIDE LABOR AND MATERIALS TO REPAIR OR REPLACE DEFECTIVE PARTS AND MATERIALS AS REQUIRED FOR ONE YEAR AFTER SUBSTANTIAL COMPLETION OR OWNER ACCEPTANCE OF THE COMPLETED PROJECT. PROVIDE A SEPARATE LINE ITEM DEDUCT AMOUNT ON THE PROPOSAL FORM TO DELETE WARRANTY SERVICE, AT THE OWNER'S OPTION.

COORDINATION: COORDINATE WITH THE WORK OF OTHER TRADES, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE.

DUCT DIMENSIONS: UNLESS OTHERWISE NOTED, DUCT DIMENSIONS ON THE DRAWINGS ARE INSIDE CLEAR DIMENSIONS.

SHEETMETAL DUCTWORK: PROVIDE SHEETMETAL DUCTWORK FABRICATED AND INSTALLED IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS, FOR 1" W.G. PRESSURE CLASS, SEAL CLASS "A". SHEETMETAL SHALL BE GALVANIZED SHEET STEEL OF LOCK FORMING QUALITY, WITH G90 ZINC COATING. SHEET STEEL SHALL COMPLY WITH ASTM A653 STANDARD SPECIFICATION FOR STEEL SHEETMETAL, ZINC COATED (GALVANIZED) OR ZINC–IRON ALLOY–COATED (GALVANNEALED) BY THE HOT DIP PROCESS, AND A924 STANDARD SPECIFICATION FOR GENERAL REQUIREMENTS FOR SHEET, METALLIC–COATED BY THE HOT DIP PROCESS. ALL ANGLE IRON USED FOR SUPPORT SHALL BE GALVANIZED. CONNECTIONS TO WALLS OR FLOOR SHALL BE AIR TIGHT WITH ANGLE IRON AND CAULKING. SEAL ALL DUCT SEAMS, TRANSVERSE AND LONGITUDINAL, AIR TIGHT. PROVIDE TURNING VANES AT ALL 90° ELBOWS.

ROUND SHEETMETAL DUCT: PROVIDE SPIRAL SEAM (ALL SIZES) OR SNAP LOCK (CONCEALED DUCT SIZES UP TO 10") GALVANIZED STEEL COMPLYING WITH SMACNA STANDARDS. SPIRAL SEAM DUCTWORK SHALL HAVE SMACNA SEAM TYPE RL–1.

FLEXIBLE DUCT: PROVIDE FACTORY ASSEMBLED CLASS 1 AIR DUCT (UL 181) WITH 1" THICK 1 PCF FIBERGLASS INSULATION AND REINFORCED OUTER PROTECTIVE COVER/VAPOR BARRIER. FLEXIBLE DUCT SHALL MEET NFPA 90A WITH FLAME SPREAD UNDER 25, SMOKE DEVELOPED UNDER 50, AND SHALL BE RATED FOR MINIMUM 2" W.G. PRESSURE AND 0 TO 250°F TEMPERATURE. PROVIDE SCREW–OPERATED METAL ADJUSTABLE CLAMPING DEVICES. USE TWIST–LOCK TAP COLLARS AT CONNECTIONS INTO SHEETMETAL DUCTWORK. MAXIMUM EXTENDED LENGTH OF FLEXIBLE DUCT SHALL NOT EXCEED 6 FEET.

EXPOSED DUCTWORK: EXPOSED DUCTWORK SHALL BE CLEANED OF DEBRIS AND OIL, THEN WIPED DOWN WITH VINEGAR OR OTHER SURFACE PREPARING CHEMICAL TO PREPARE DUCT FOR PAINT.

DUCT SEALANT FOR DUCTWORK LOCATED INDOORS: PROVIDE WATER BASED SYNTHETIC LATEX EMULSION PERMANENTLY FLEXIBLE HIGH VELOCITY DUCT SEALANT, DUCTMATE INDUSTRIES INC., PRO SEAL OR EQUAL. SEALANT TO BE LOW VOC LEED COMPLIANT CAPABLE OF 15" W.G., NFPA 90A AND 90B APPROVED, UL 181B–M LISTED AND UL 723 CLASSIFIED. INSTALL PER MANUFACTURER INSTRUCTIONS. SEALANT SHALL BE APPROVED FOR PLENUM INSTALLATIONS AND MEET FLAME SPREAD AND SMOKE DEVELOPED RATINGS FOR PLENUM APPLICATIONS.

DUCT INSULATION (ALL ROUND SUPPLY DUCT AND ROUND RETURN DUCT ABOVE CEILING, AND ALL RECTANGULAR AND ROUND MAKEUP AIR DUCT): PROVIDE MINIMUM 1–1/2" THICK BLANKET TYPE FIBERGLASS INSULATION COMPLYING WITH ASTM C–553, TYPE II, WITH FACTORY APPLIED KRAFT BONDED TO ALUMINUM FOIL, REINFORCED WITH FIBERGLASS VAPOR BARRIER/JACKET. JACKET SHALL CONFORM TO ASTM C–1136, TYPE II. INSTALLED R VALUE SHALL BE 4.2 OR HIGHER WITH A 0.75 PCF DENSITY.

DUCT LINER (ALL RECTANGULAR SUPPLY DUCT (EXCLUDING DUCTWORK FROM MAKEUP AIR UNIT(S)), ALL EXPOSED ROUND DUCT, RECTANGULAR EXHAUST DUCT WITHIN 15'–0" OF TOILET EXHAUST FAN, AND ALL RECTANGULAR RETURN DUCT): PROVIDE MINIMUM 1" THICK, LONG TEXTILE FIBER TYPE DUCT LINER, WITH COATING ON THE AIR STREAM SIDE CONFORMING TO NFPA 90A. DUCT LINER SHALL BE SECURED TO DUCT WITH BOTH ADHESIVE AND MECHANICAL FASTENERS. ADHESIVE SHALL BE LEED COMPLIANT LOW VOC AS RECOMMENDED BY DUCT LINER MANUFACTURER, AND SHALL COMPLY WITH ASTM C–916. DUCT LINER FASTENERS SHALL COMPLY WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS", LATEST EDITION. THERMAL CONDUCTIVITY SHALL BE EQUAL TO OR LESS THAN 0.24 AT 75°F.

RECTANGULAR VOLUME DAMPERS: PROVIDE MINIMUM 16 GAUGE GALVANIZED STEEL CHANNEL FRAME, 16 GAUGE GALVANIZED STEEL BLADES, MINIMUM 1/2" HEXAGONAL AXLE, MOLDED SYNTHETIC BEARINGS, WITH 3/8" SQUARE PLATED STEEL CONTROL SHAFT. LINKAGES SHALL BE CONCEALED IN THE FRAME. OPERATING SHAFT SHALL EXTEND BEYOND FRAME AND DUCT TO A LOCKING QUADRANT WITH ADJUSTABLE LEVER. MAXIMUM BLADE WIDTH SHALL NOT EXCEED 6".

DUCT TURNING VANES: PROVIDE FABRICATED TURNING VANES AND VANE RUNNERS, CONSTRUCTED IN ACCORDANCE WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS". PROVIDE TURNING VANES CONSTRUCTED OF CURVED BLADES, SUPPORTED WITH BARS PERPENDICULAR TO BLADES, AND SET INTO SIDE STRIPS SUITABLE FOR MOUNTING IN DUCTWORK. FOLLOW SMACNA GUIDELINES FOR SPACING SUPPORT, AND CONSTRUCTION. ALL BLADES SHALL BE DOUBLE THICKNESS AIRFOIL TYPE.

FLEXIBLE DUCT CONNECTORS: PROVIDE UL LABELED 30 OUNCE NEOPRENE COATED FIBERGLASS FABRIC DUCT CONNECTORS AT DUCT CONNECTIONS TO ALL VIBRATING EQUIPMENT.

DUCT ACCESS DOORS: PROVIDE HINGED ACCESS DOORS IN DUCTWORK WHERE REQUIRED FOR ACCESS TO EQUIPMENT. PROVIDE INSULATED ACCESS DOORS FOR INSULATED DUCTWORK. CONSTRUCT OF SAME OR THICKER GAUGE SHEETMETAL AS DUCT IN WHICH IT IS INSTALLED. PROVIDE FLUSH FRAMES FOR UNINSULATED DUCTS, AND EXTENDED FRAMES FOR EXTERNALLY INSULATED DUCTS. PROVIDE CONTINUOUS HINGE ON ONE SIDE, WITH ONE HANDLE–TYPE LATCH FOR ACCESS DOORS 12" HIGH AND SMALLER, AND TWO HANDLE–TYPE LATCHES FOR LARGER ACCESS DOORS.

GREASE EXHAUST DUCTWORK (ROUND): PROVIDE FACTORY BUILT DOUBLE–WALL GREASE EXHAUST DUCT AS MANUFACTURED BY CAPTIVEAIRE OR APPROVED EQUAL. DUCT SHALL BE ETL LISTED TO UL–1978 AND UL–2221. ALL ELBOWS IN GREASE EXHAUST DUCTWORK SHALL BE RADIUS ELBOWS. NO SQUARE ELBOWS ARE ALLOWED.

COMPOSITE GREASE DUCT FIRE PROTECTION INSULATION ASSEMBLY: PROVIDE FLEXIBLE BLANKET–TYPE INSULATION COMPOSED OF FIBER BLANKET ENCAPSULATED IN AN ALUMINUM FOIL SCRIM, PROVIDING A NONCOMBUSTIBLE WRAP TO PROVIDE A VAPOR AND DUST BARRIER. DUCT WRAP SYSTEM SHALL HAVE FLAME SPREAD INDEX OF NOT MORE THAN 5 AND SMOKE DEVELOPED INDEX NOT EXCEEDING 5, WHEN TESTED PER ASTM E–84 METHOD. INSULATION AND JACKET SHALL BE RATED FOR OPERATING TEMPERATURES UP TO 2000°F. DUCT WRAP SYSTEM MUST COMPLY WITH ALL FIVE FIRE TESTS OF STANDARD ASTM E2336, GREASE DUCT ENCLOSURE SYSTEM, AND THE DUCT FIRESTOP SYSTEM SHALL BE ASTM E 814 CLASSIFIED. FABRICATE DUCT WRAP ENCLOSURE WITH (2) LAYERS OF DUCT WRAP TO PROVIDE 2–HOUR FIRE RATING. PROVIDE COMPOSITE GREASE DUCT FIRE PROTECTION INSULATION FROM ONE OF THE FOLLOWING: THERMAL CERAMICS FIREMASTER FASTWRAP XL, UNIFRAX FYREWRAP ELITE 1.5.

TESTING AND BALANCING: TEST AND ADJUST ALL MECHANICAL SYSTEMS AND EQUIPMENT TO ASSURE PROPER BALANCE AND OPERATION. PERFORM TESTS IN ACCORDANCE WITH THE MOST CURRENT NEBB OR AABC, AND ASHRAE STANDARDS. ELIMINATE OBJECTIONABLE NOISE AND VIBRATION, AND ASSURE PROPER FUNCTION OF CONTROLS. BALANCING CONTRACTOR SHALL BE AN INDEPENDENT CERTIFIED TEST AND BALANCE CONTRACTOR, WITH NEBB OR AABC CERTIFICATION. SUBMIT COMPLETED AND CERTIFIED TEST AND BALANCE REPORT TO OWNER'S REPRESENTATIVE. BALANCE ALL SYSTEMS TO WITHIN 5% OF AIR FLOWS INDICATED ON THE DRAWINGS, AND REPORT ALL DISCREPANCIES TO HVAC INSTALLER FOR CORRECTION. MARK FINAL BALANCE POSITIONS ON DAMPERS WITH PERMANENT MARKER. CERTIFIED AIR BALANCER SHALL PROVIDE A WRITTEN REPORT TO THE AUTHORITY HAVING JURISDICTION SHOWING THE AIR VOLUMES FOR ALL ELEMENTS OF COMMERCIAL KITCHEN HOOD SYSTEMS.

SHOP DRAWINGS/SUBMITTALS: SUBMIT ELECTRONIC SUBMITTALS AND SHOP DRAWINGS VIA EMAIL AS PDF ELECTRONIC FILES. PROVIDE SUBMITTALS ON ALL MECHANICAL EQUIPMENT (INCLUDING CONTROLS PACKAGES), AIR DISTRIBUTION DEVICES, DUCTWORK, DAMPERS, AND INSULATION. SUBMITTALS AND SHOP DRAWINGS SHALL INCLUDE THE FOLLOWING INFORMATION:

- PROJECT NAME
- DATE
- NAME AND ADDRESS OF ARCHITECT AND MEP ENGINEER
- NAME OF CONSTRUCTION MANAGER
- NAME OF CONTRACTOR
- NAME OF FIRM OR ENTITY THAT PREPARED SUBMITTAL
- NAMES OF SUBCONTRACTOR, MANUFACTURER, AND SUPPLIER.
- CATEGORY AND TYPE OF SUBMITTAL
- SUBMITTAL PURPOSE AND DESCRIPTION
- MANUFACTURER NAME
- PRODUCT NAME
- DRAWING NUMBER AND DETAIL REFERENCES, AS APPROPRIATE
- INDICATION OF FULL OR PARTIAL SUBMITTAL
- TRANSMITTAL NUMBER
- REMARKS

IDENTIFY DEVIATIONS FROM THE CONTRACT DOCUMENTS ON SHOP DRAWINGS AND SUBMITTALS. FURNISH COPIES OF FINAL SUBMITTALS TO MANUFACTURERS, SUBCONTRACTORS, SUPPLIERS, FABRICATORS, INSTALLERS, AUTHORITIES HAVING JURISDICTION, AND OTHERS AS NECESSARY FOR PERFORMANCE OF CONSTRUCTION ACTIVITIES. SHOW DISTRIBUTION ON TRANSMITTAL FORMS.

SUBMITTALS SHALL INCLUDE (AS APPLICABLE):

- MANUFACTURER'S CATALOG CUTS
- MANUFACTURER'S PRODUCT SPECIFICATIONS
- STATEMENT OF COMPLIANCE WITH SPECIFIED REFERENCED STANDARDS
- TESTING BY RECOGNIZED TESTING AGENCY
- APPLICATION OF TESTING AGENCY LABELS AND SEALS
- WIRING DIAGRAMS SHOWING FACTORY–IINSTALLED WIRING
- PERFORMANCE CURVES
- OPERATIONAL RANGE DIAGRAMS
- CLEARANCES REQUIRED TO OTHER CONSTRUCTION, IF NOT INDICATED ON SHOP DRAWINGS.

FULL SIZE SHOP DRAWINGS SHALL INCLUDE (AS APPLICABLE):

- IDENTIFICATION OF PRODUCTS
- SCHEDULES
- COMPLIANCE WITH SPECIFIED STANDARDS
- NOTATION OF COORDINATION REQUIREMENTS
- NOTATION OF DIMENSIONS ESTABLISHED BY FIELD MEASUREMENT
- RELATIONSHIP AND ATTACHMENT TO ADJOINING CONSTRUCTION CLEARLY INDICATED.

MECHANICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING DUCT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION AND INSTALLATION.

GENERAL NOTES

A. CONTRACTORS AND SUB–CONTRACTORS SHALL CAREFULLY REVIEW CONSTRUCTION DOCUMENTS. INFORMATION REGARDING COMPLETE WORK IS DISPERSED THROUGHOUT DOCUMENT SET AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO COMPLETE DOCUMENT SET.

B. COORDINATE WITH WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF OWNER, AND WITH CONSTRAINTS OF EXISTING CONDITIONS OF PROJECT SITE. PROVIDE DUCT RISES AND DROPS AS REQUIRED FOR FIELD INSTALLATION AND TRADE COORDINATION. NOTIFY ARCHITECT OF DISCREPANCIES BEFORE STARTING WORK.

C. DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC, SHOWING GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENT. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.

D. ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY GOVERNING AUTHORITY. PURCHASE ALL PERMITS ASSOCIATED WITH THE WORK. OBTAIN ALL INSPECTIONS REQUIRED BY CODE.

E. CONTRACT LANDLORD APPROVED ROOFING CONTRACTOR TO FLASH AND SEAL ROOF CURBS TO MAINTAIN ROOFING WARRANTY.

F. INSTALL EXHAUST FANS MINIMUM 10 FT FROM AIR INTAKE OPENINGS.

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DICKEY'S BARBECUE PIT est. 1941

MI-2197

DATE	DESCRIPTION
07/13/22	ISSUED FOR PERMIT

	DATE	DESCRIPTION

SHEET TITLE

MECHANICAL SCHEDULES, LEGEND & SPECIFICATIONS

SHEET NUMBER:

M0.0

JLLA PROJECT NUMBER:

DBQ-103

07/13/2022 - ISSUED FOR PERMIT

2015 MICHIGAN MECHANICAL CODE TABLE 403.3.1.1 VENTILATION SUMMARY

OCCUPANCY CATEGORY	PEOPLE OUTDOOR AIR RATE - (Rp) (CFM/PERSON)	AREA OUTDOOR AIR RATE - (Ra) (CFM/SQ.FT.)	OCCUPANCY DENSITY P/1,000 SQ.FT.	OCCUPANCY CLASSIFICATION P/1,000 SQ.FT.	CALCULATED OCCUPANCY DENSITY	ZONE OCCUPANCY OVERRIDE	PEOPLE EXPECTED TO OCCUPY THE ZONE - (Pz)	Rp*Pz	Ra*Az	AREA - (Az) SQ.FT.	ZONE AIR DISTRIBUTION EFFECTIVENESS - Ez	BREATHING ZONE OUTDOOR AIRFLOW - (Vbz) CFM	ZONE OUTDOOR AIRFLOW (Voz) Voz=Vbz/Ez	ZONE PRIMARY AIRFLOW (Vpz)	PRIMARY OUTDOOR AIR FRACTION (Zp) Zp=Voz/Vpz	OCCUPANT DIVERSITY RATIO (D)	UNCORRECTED OUTDOOR AIR INTAKE (Vou) CFM	SYSTEM VENTILATION EFFICIENCY Ev	CORRECTED OUTDOOR AIRFLOW (Vot) CFM	PROVIDED OUTDOOR AIRFLOW CFM
RTU-X1																				
DINIING	7.5	0.18	70	DINING	49	—	49	371	127	707	0.8	498	623	1700	0.37		498		639	
MEN'S ADA	—	—	—	TOILET ROOM	—	—	—	—	—	49	0.8	—	—	35	—		—		—	
WOMEN'S ADA	—	—	—	TOILET ROOM	—	—	—	—	—	49	0.8	—	—	85	—		—		—	
CORRIDOR	—	0.06	—	CORRIDOR	—	—	—	—	11	177	0.8	11	13	100	0.13		11		14	
MEP CLOSET	—	0.12	—	STORAGE	—	—	—	—	9	72	0.8	9	11	80	0.14		9		11	
				SYSTEM POPULATION INCLUDING DIVERSITY (Ps) =			49							2000	0.37	1.00	518	0.78	664	665
RTU-2																				
KITCHEN	7.5	0.12	20	KITCHEN	15	—	15	111	90	742	0.8	201	251	2000	0.13		201		251	
				SYSTEM POPULATION INCLUDING DIVERSITY (Ps) =			15							2000	0.13	1.00	201	0.80	251	335

ROOFTOP UNIT SCHEDULE

MARK (RTU- #)	2	X1	
MANUFACTURER	CARRIER	CARRIER	
MODEL	48HCDA06	48TCEA06	
AIR FLOW (CFM)	2,000	2,000	
OA FLOW (CFM)	335	665	
AMBIENT OAT (°F)	100	100	
EXTERNAL STATIC (IN. W.C.)	0.8	-	
DX COOLING COIL			
EAT (°FDB/WB)	77.8/64.0	78.8/66.3	
TOTAL (BTU/HR)	58,890	62,300	
SENSIBLE (BTU/HR)	48,890	46,700	
GAS HEAT			
FUEL	NATURAL GAS	NATURAL GAS	
INPUT (BTU/HR)	72,000	115,000	
OUTPUT (BTU/HR)	59,000	90,000	
ELECTRICAL			
VOLTS/Ø/HZ	208/3/60	208/3/60	
MOTOR HP	2.9	-	
UNIT MCA	30	28	
MOCP AMPS	45	40	
APPROX. WEIGHT (LBS)	900	-	
SEER	15.2	-	
NOTES	1-10	8,11	

NOTES:
1) PROVIDE 24" HIGH FACTORY FABRICATED ROOF CURB.
2) PROVIDE WEATHER HOOD WITH BIRD SCREEN AT UNIT INLET.
3) PROVIDE FACTORY MOUNTED AND WIRED DISCONNECT SWITCH.
4) PROVIDE LOW-LEAK OUTSIDE AIR ECONOMIZER WITH DRY BULB CONTROL AND ECONOMIZER FAULT DETECTION AND DIAGNOSTICS.
5) PROVIDE 5 MINUTE TIME DELAY ON COMPRESSOR RESTART.
6) PROVIDE UNIT WITH LOUVERED HAIL GUARDS.
7) PROVIDE UNIT WITH FACTORY MOUNTED AND WIRED CONDENSATE OVERFLOW SWITCH.
8) SET MINIMUM OUTSIDE AIR AS SPECIFIED ABOVE. OUTSIDE AIR DAMPER SHALL FULLY CLOSE ON UNIT SHUTDOWN.
9) PROVIDE WITH BAROMETRIC RELIEF.
10) CONTRACTOR SHALL INSTALL COMPONENTS SHIPPED LOOSE TO THE FIELD.
11) EXISTING UNIT TO REMAIN.

UNIT HEATER SCHEDULE-ELECTRIC HEAT

MARK (UH-#)	1,2	
MANUFACTURER	QMARK	
MODEL	CDF-547	
TYPE	RECESSED CEILING	
AIR FLOW (CFM)	300	
ELECTRIC HEAT		
INPUT (WATTS)	5,000	
OUTPUT (BTU/HR)	13,650	
ELECTRICAL		
VOLTS/Ø/HZ	277/1/60	
MOCP (AMPS)	20	
APPROX. WEIGHT (LBS)	20	
NOTES	1,2,3,4	

NOTES:
1) PROVIDE WITH INTEGRAL DISCONNECT SWITCH.
2) PROVIDE WITH INTEGRAL THERMOSTAT.
3) PROVIDE WITH ALL HARDWARE REQUIRED FOR COMPLETE INSTALLATION.
4) PROVIDE WITH RECESSED MOUNTING
5) PROVIDE WITH SURFACE MOUNTING ENCLOSURE.

APPROVED EQUALS: CADET, BROAN

KITCHEN EXHAUST FAN SCHEDULE

MARK (KEF- #)	1	
MANUFACTURER	ACCUREX	
MODEL	XCUE-140-A	
TYPE	UPBLAST	
DRIVE TYPE	DIRECT	
PERFORMANCE		
AIR FLOW (CFM)	1,750	
EXTERNAL STATIC (IN W.C.)	1.2	
FAN SPEED (RPM)	1,519	
SONES	11.3	
ELECTRICAL		
VOLTS/Ø/HZ	208/3/60	
FAN MOTOR HP	1	
ACCESSORIES	RC, WP, FSC	
SERVICE	HOOD	
APPROX. WEIGHT (LBS)	135	
NOTES	1-5	

ACCESSORIES:
RC-ROOF CURB, WP-NEMA 3R DISCONNECT SWITCH,
FSC-FAN SPEED CONTROL

NOTES:
1) REFER TO ACCUREX DRAWINGS (M3.X SERIES) FOR ADDITIONAL REQUIREMENTS.
2) FAN SHALL BE UL 762 LISTED FOR RESTAURANT EXHAUST.
3) CONTROL FROM ACCUREX HOOD UTILITY CABINET.
4) FAN IS OWNER FURNISHED.
5) INTERLOCK RTU-2 TO OPERATE IN OCCUPIED MODE WHILE KITCHEN EXHAUST FAN IS ENERGIZED.

MAKE-UP AIR UNIT SCHEDULE

MARK (MAU-#)	1	
MANUFACTURER	ACCUREX	
MODEL	XDGX-P115-H05-VFD	
DRIVE TYPE	DIRECT	
PERFORMANCE		
AIR FLOW (CFM)	1,400	
EXTERNAL STATIC (IN W.C.)	0.5	
FAN SPEED (RPM)	1,546	
DIRECT FIRED HEATER		
FUEL	DIRECT GAS	
INPUT (BTU/HR)	115,000	
HEAT OUTPUT (BTU/ HR)	105,800	
ELECTRICAL		
VOLTS/Ø/HZ	208/3/60	
FAN MOTOR HP	1.5	
MCA (AMPS)	8.9	
MOCP (AMPS)	15	
APPROX. WEIGHT (LBS)	420	
ACCESSORIES	1-4	
NOTES	1-7	

ACCESSORIES:
1) FACTORY FURNISHED 24" HIGH INSULATED ROOF CURB.
2) FACTORY PROVIDED REMOVABLE ACCESS PANELS.
3) FACTORY PROVIDED GRAVITY INTAKE DAMPER.
4) FACTORY PROVIDED WEATHER HOOD AND BIRDSCREEN ON INLET.

NOTES:
1) REFER TO ACCUREX DRAWINGS (M3.X SERIES) FOR ADDITIONAL REQUIREMENTS.
2) PROVIDE HINGED SERVICE DOOR WITH SAFETY INTERLOCK SWITCH.
3) PROVIDE SPARK IGNITED INTERMITTENT SAFETY PILOT WITH FLAME SUPERVISION.
4) PROVIDE UNIT MOUNTED THERMOSTAT WITH MOUNTING BRACKET.
5) PROVIDE TIMED LOCKOUT IGNITION SYSTEM.
6) ELECTRICAL CONTRACTOR TO PROVIDE NEMA 3 DISCONNECT SWITCH.
7) FAN IS OWNER FURNISHED.

EXHAUST AND VENTILATION FAN SCHEDULE

MARK (EF-#)	1,2	3	
MANUFACTURER	COOK	COOK	
MODEL	GC-148	GN-148	
TYPE	CEILING MOUNTED	IN-LINE	
DRIVE TYPE	DIRECT	DIRECT	
PERFORMANCE			
AIR FLOW (CFM)	100	100	
EXT. STATIC (IN W.C.)	0.25	0.25	
FAN SPEED (RPM)	894	1,075	
ELECTRICAL			
VOLTS/Ø/HZ	120/1/60	120/1/60	
FAN MOTOR WATTS	37	37	
ACCESSORIES	BD,DS,FSC	BD,DS,FSC	
APPROX. WEIGHT (LBS)	20	20	
SERVES	RESTROOM	MEP CLOSET	
NOTES	1	1	

ACCESSORIES:
BD-BACKDRAFT DAMPER, DS-PRE-WIRED DISCONNECT SWITCH, FSC-FACTORY MOUNTED AND WIRED FAN SPEED CONTROL

NOTES:
1) INTERLOCK WITH ROOM LIGHT SWITCH.

AIR CURTAIN SCHEDULE

MARK (AC-#)	1	
MANUFACTURER	BERNER	
MODEL	ALC08-1036E	
AIR FLOW (CFM)	1,036	
ELECTRIC HEAT		
INPUT (WATTS)	7,500	
OUTPUT (BTU/HR)	25,600	
ELECTRICAL		
VOLTS/Ø/HZ	208/3/60	
MOTOR QUANTITY	1	
MOTOR HP	1/5	
MCA (AMPS)	28	
MOCP (AMPS)	30	
FINISH	PER ARCHITECT	
APPROX. WEIGHT (LBS)	50	
ACCESSORIES	DRA,F,MS,T,TB	
NOTES	1	

ACCESSORIES:
DRA-DECORATIVE REAR ADAPTOR, F-FILTER, MS-DOOR MICRO SWITCH, T-THERMOSTAT, TB-TRANSOM BRACKET

NOTES:
1) PROVIDE WITH INTEGRAL DISCONNECT SWITCH.

AIR BALANCE SCHEDULE

	RTU-X1	RTU-2	MAU-1	KEF-1	EF-1	EF-2	EF-3	TOTALS
OUTSIDE AIR FLOW (CFM)	665	335	1,400	0	0	0	0	2,400
RETURN AIR FLOW (CFM)	1,335	1,665	0	0	0	0	0	3,000
SUPPLY AIR FLOW (CFM)	2,000	2,000	1,400	0	0	0	0	5,400
EXHAUST AIR FLOW (CFM)	0	0	0	1,750	100	100	100	2,050
BUILDING PRESSURE (CFM)	665	335	1,400	-1,750	-100	-100	-100	350
RESULTING BUILDING PRESSURIZATION (CFM)								350

GRILLE, REGISTER, AND DIFFUSER SCHEDULE

MARK	A	B	C	D	E	F
MANUFACTURER	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS
MODEL	TMS	PAR-AA	TMS	50F	300RS	350RL
TYPE	SQUARE CONE DIFFUSER	PERFORATED DIFFUSER	SQUARE CONE DIFFUSER	EGGCRATE GRILLE	REGISTER	LOUVERED EXHAUST GRILLE
NECK SIZE (L"XW")	PER PLAN	PER PLAN	PER PLAN	PER PLAN	8"X6"	8"X6"
FACE SIZE (L"XW")	24"X24"	24"X24"	12"X12"	24"X24"	10"X8"	10"X8"
FRAME TYPE	LAY-IN	LAY-IN	LAY-IN	LAY-IN	DUCT MOUNT	SURFACE
FINISH	PER ARCHITECT	PER ARCHITECT	PER ARCHITECT	PER ARCHITECT	PER ARCHITECT	PER ARCHITECT
NOISE CRITERIA LEVEL	<30	<30	<30	<30	<30	<30
ACCESSORIES			TRM	STR		

ACCESSORIES:
STR-SQUARE TO ROUND TRANSITION, TRM-RAPID MOUNT SHEETROCK FRAME

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DICKEY'S BARBECUE PIT est. 1941

MI-2197

DATE	DESCRIPTION
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△	DATE	DESCRIPTION

SHEET TITLE

MECHANICAL SCHEDULES, LEGEND & SPECIFICATIONS

SHEET NUMBER:

M0.1

JLLA PROJECT NUMBER:
DBQ-103

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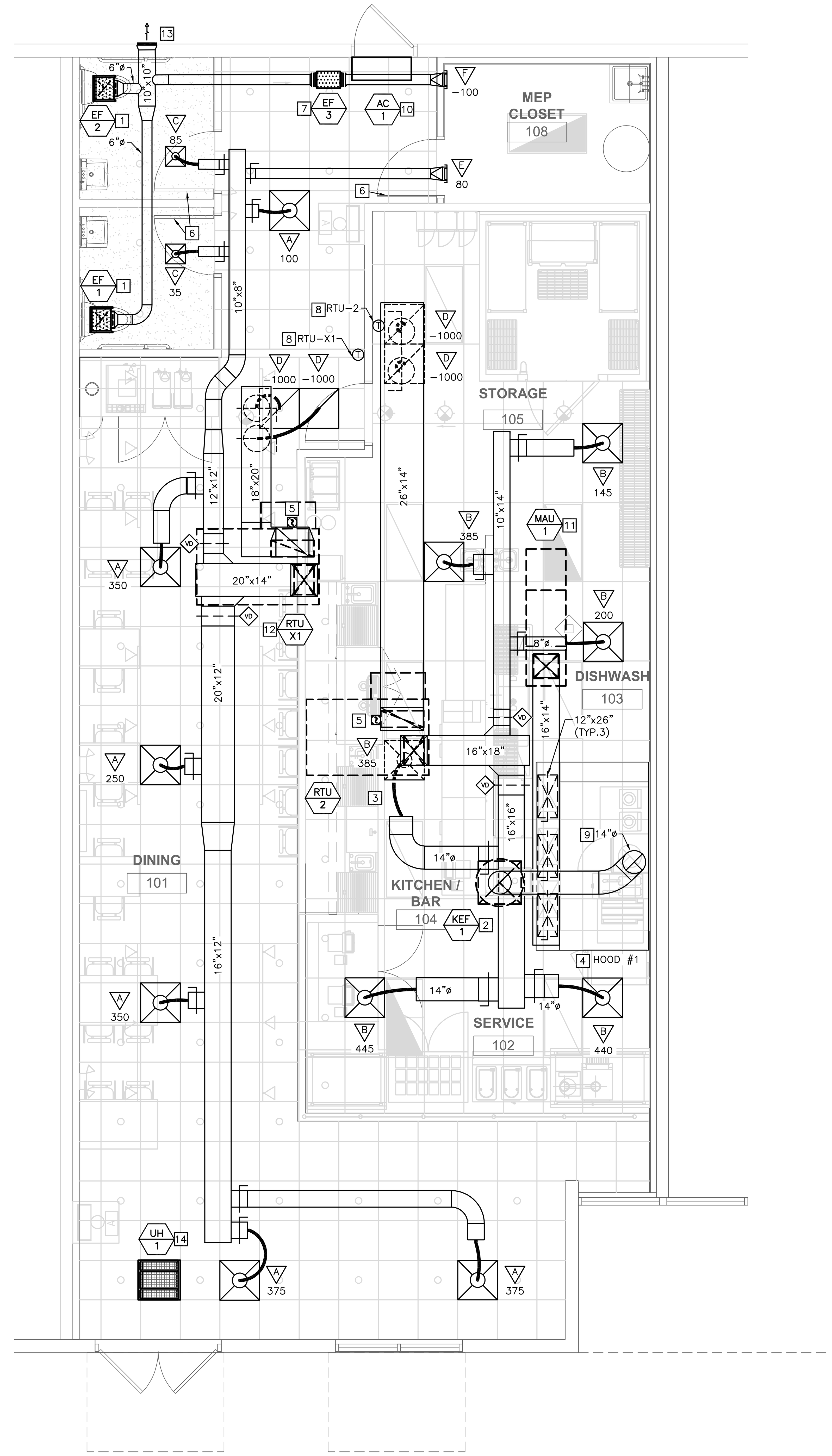

01 MECHANICAL PLAN

1/4"=1'-0"

MECHANICAL KEY NOTES

1. PROVIDE CEILING MOUNTED EXHAUST FAN. TRANSITION FROM FAN DISCHARGE TO DUCT SIZE SHOWN AND EXTEND OUT TO EXTERIOR WALL LOUVER.
2. INSTALL OWNER FURNISHED ROOF MOUNTED GREASE EXHAUST FAN AND CURB.
3. INSTALL OWNER FURNISHED ROOFTOP UNIT AND CURB. COORDINATE UNIT WITH STRUCTURE. SHIM UNIT AND CURB LEVEL FOR PROPER CONDENSATE DRAINAGE. PROVIDE FLEXIBLE CONNECTORS ON SUPPLY AND RETURN AIR DUCT CONNECTIONS. TRANSITION TO DUCT SIZES SHOWN.
4. INSTALL OWNER FURNISHED TYPE I GREASE EXHAUST HOOD. SUPPORT HOOD PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE TRAPEZE HANGERS FOR ALL THREAD SUPPORT UNDER DUCTWORK AS REQUIRED. TRANSITION FROM HOOD CONNECTIONS TO WELDED KITCHEN EXHAUST DUCT SIZES SHOWN. REFER TO HOOD DRAWINGS FOR HOOD SPECIFICATIONS AND ADDITIONAL INFORMATION.
5. PROVIDE DUCT MOUNTED SMOKE DETECTOR. DETECTOR SHALL MEET REQUIREMENTS OF U.L. 268A. INTERLOCK SMOKE DETECTOR TO SHUT DOWN UNIT UPON DETECTION OF SMOKE. PROVIDE SMOKE DETECTOR WITH AN ANNUNCIATOR WITH PIEZO ALARM AND POWER LEDS FOR VISIBLE AND AUDIBLE ALARM SIGNAL, AND VISIBLE TROUBLE SIGNAL. MOUNT ANNUNCIATOR ON ROOM SIDE OF CEILING.
6. UNDERCUT DOOR 1" FOR TRANSFER AIR.
7. PROVIDE INLINE EXHAUST FAN. SUPPORT FAN FROM STRUCTURE ABOVE WITH STEEL CHANNEL AND THREADED ROD WITH VIBRATION ISOLATORS. PROVIDE FLEXIBLE CONNECTORS ON THE INLET AND DISCHARGE DUCT CONNECTIONS.
8. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT WITH AUTO-CHANGEOVER, DEMAND RESPONSE CAPABILTIY, AND AUTOMATIC START CAPABILITY. MOUNT THERMOSTAT 48" ABOVE FINISHED FLOOR.
9. PROVIDE UL-2221 LISTED DOUBLE-WALL GREASE DUCT EQUAL TO JEREMIAS EXHAUST SYSTEMS MODEL DWCK-ZC STAINLESS STEEL INNER DUCT INSULATED WITH 3.25" HIGH DENSITY CERAMIC FIBER INSULATION SHELL FROM HOOD COLLAR EXHAUST FAN ON ROOF. INSTALL EXHAUST DUCT PER MANUFACTURER'S INSTRUCTIONS. PROVIDE CLEANOUTS AT EVERY CHANGE OF DIRECTION IN THE DUCT AND/OR EVERY 10 FEET WITH MINIMUM OF 3 FEET OF CLEARANCE IN FRONT OF CLEAN-OUT.
10. PROVIDE AIR CURTAIN. MOUNT UNIT ON WALL DIRECTLY ABOVE DOOR PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
11. INSTALL OWNER FURNISHED MAKEUP AIR UNIT AND CURB. SHIM UNIT AND CURB LEVEL. PROVIDE FLEXIBLE CONNECTOR ON THE SUPPLY AIR DUCT CONNECTION. TRANSITION TO DUCT SIZE SHOWN.
12. EXISTING ROOFTOP UNIT TO REMAIN. FIELD VERIFY EXACT LOCATION OF UNIT AND ADJUST DUCTWORK ACCORDINGLY. CLEAN UNIT, GREASE ALL BEARINGS, LEAK-CHECK AND CHARGE REFRIGERANT SYSTEM, REPLACE FILTERS, AND CLEAN OUTDOOR AND INDOOR COILS. PROVIDE FLEXIBLE CONNECTORS ON THE SUPPLY AND RETURN AIR DUCT CONNECTIONS. TRANSITION TO DUCT SIZES SHOWN. RESHEAVE MOTOR AS REQUIRED TO DELIVER SPECIFIED AIRFLOW.
13. PROVIDE RUSKIN ELF6375DX LOUVER SIZE 12"X16". PROVIDE LOUVER WITH BIRD SCREEN AND EXTENDED SILL. ARCHITECT SHALL SPECIFY COLOR OF KYNAR.
14. PROVIDE RECESSED MOUNTED UNIT HEATER. MOUNT UNIT HEATER IN CEILING PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

ROUND DUCT SIZING

UNLESS NOTED OTHERWISE ON PLANS, THE FOLLOWING CHART SHALL APPLY TO ROUND DUCT SIZES FOR SUPPLY AIR*, RETURN AIR, AND EXHAUST AIR.

SUPPLY AND EXHAUST AIR CFM RANGE	DUCT SIZE	RETURN AIR CFM RANGE
0-100	6"ø	0-70
105-200	8"ø	75-155
205-395	10"ø	160-285
400-605	12"ø	290-465
610-920	14"ø	470-710
925-1200	16"ø	715-1015
	18"ø	1020-1395
	20"ø	1400-1850

* DIFFUSER NECK SIZES SHALL MATCH SUPPLY AIR DUCT SIZES.

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[illegible] 7/15/22

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MI-2197

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MECHANICAL PLAN

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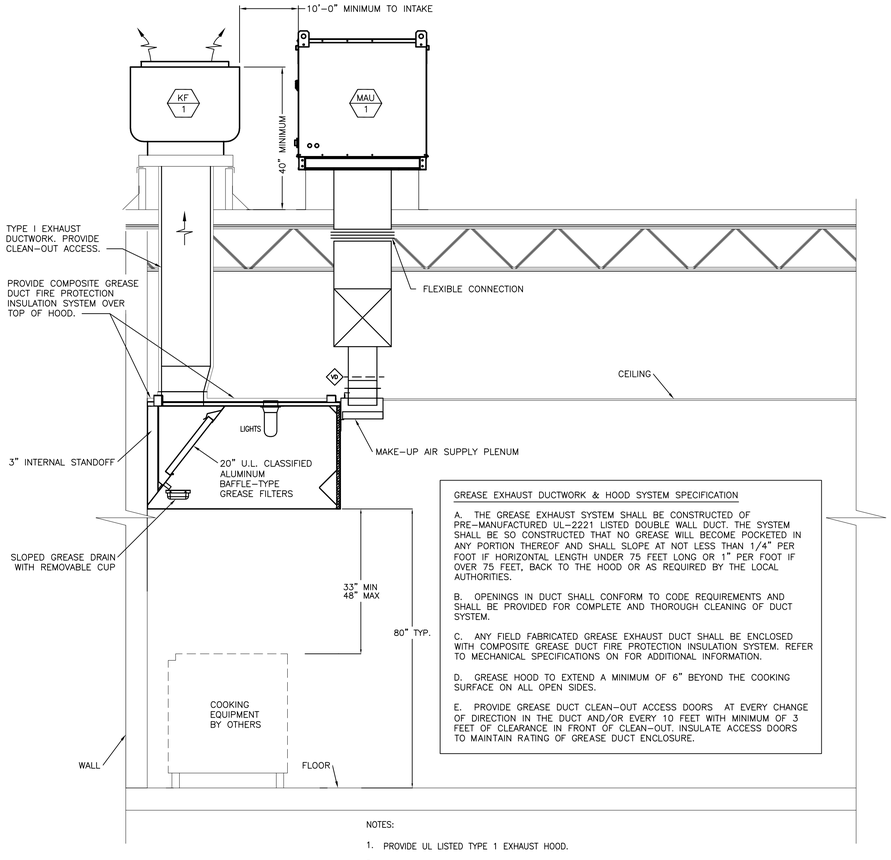


GREASE EXHAUST DUCTWORK & HOOD SYSTEM SPECIFICATION

A. THE GREASE EXHAUST SYSTEM SHALL BE CONSTRUCTED OF PRE-MANUFACTURED UL-2221 LISTED DOUBLE WALL DUCT. THE SYSTEM SHALL BE SO CONSTRUCTED THAT NO GREASE WILL BECOME POCKETED IN ANY PORTION THEREOF AND SHALL SLOPE AT NOT LESS THAN 1/4" PER FOOT IF HORIZONTAL LENGTH UNDER 75 FEET LONG OR 1" PER FOOT IF OVER 75 FEET, BACK TO THE HOOD OR AS REQUIRED BY THE LOCAL AUTHORITIES.

B. OPENINGS IN DUCT SHALL CONFORM TO CODE REQUIREMENTS AND SHALL BE PROVIDED FOR COMPLETE AND THOROUGH CLEANING OF DUCT SYSTEM.

C. ANY FIELD FABRICATED GREASE EXHAUST DUCT SHALL BE ENCLOSED WITH COMPOSITE GREASE DUCT FIRE PROTECTION INSULATION SYSTEM. REFER TO MECHANICAL SPECIFICATIONS ON FOR ADDITIONAL INFORMATION.

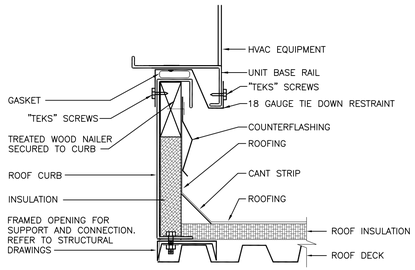
D. GREASE HOOD TO EXTEND A MINIMUM OF 6" BEYOND THE COOKING SURFACE ON ALL OPEN SIDES.

E. PROVIDE GREASE DUCT CLEAN-OUT ACCESS DOORS AT EVERY CHANGE OF DIRECTION IN THE DUCT AND/OR EVERY 10 FEET WITH MINIMUM OF 3 FEET OF CLEARANCE IN FRONT OF CLEAN-OUT. INSULATE ACCESS DOORS TO MAINTAIN RATING OF GREASE DUCT ENCLOSURE.

NOTES:

1. PROVIDE UL LISTED TYPE 1 EXHAUST HOOD.
2. THE GREASE HOOD SHALL MEET THE REQUIREMENTS OF THE MECHANICAL CODE, NSF AND NFPA FOR A TYPE I HOOD.
3. FIRE DEPARTMENT APPROVAL SHALL BE REQUIRED ON FIRE PROTECTION SYSTEM FOR GREASE HOODS AND DUCTS AS REQUIRED BY THE MECHANICAL CODE AND AS REQUIRED BY THE FIRE CODE.
4. PROVIDE CHEMICAL FIRE SUPPRESSION SYSTEM AS REQUIRED BY NFPA 17A.
5. PERFORM SMOKE TEST ON GREASE EXHAUST DUCTWORK AFTER DUCTWORK INSTALLATION IS COMPLETE BUT PRIOR TO DUCTWORK CONCEALMENT PER REQUIREMENTS OF LOCAL CODE AUTHORITIES.

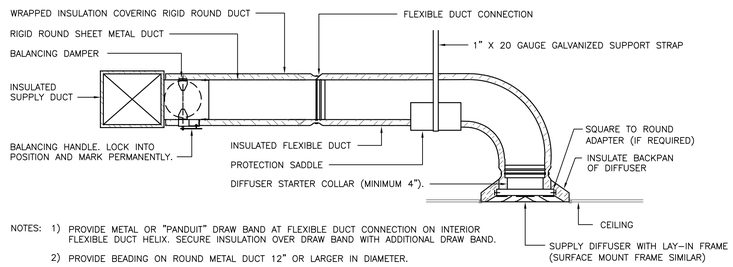
05 KITCHEN HOOD SCHEMATIC
NOT TO SCALE



03 ROOFTOP UNIT CURB DETAIL
NOT TO SCALE

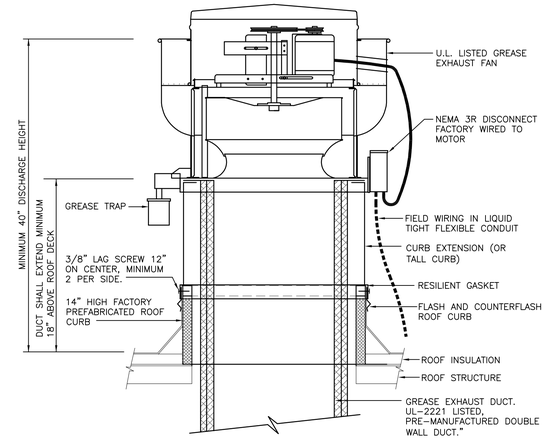
NOTE: FLANGE MOUNTING INDICATED. FOR INSTALLATION IN MASONRY WALL, OMIT WALL SLEEVE AND PROVIDE RECESSED MOUNTING IN ACCORDANCE WITH LOUVER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

04 LOUVER DETAIL
NOT TO SCALE



NOTES:
1) PROVIDE METAL OR "PANDUIT" DRAW BAND AT FLEXIBLE DUCT CONNECTION ON INTERIOR FLEXIBLE DUCT HELIX. SECURE INSULATION OVER DRAW BAND WITH ADDITIONAL DRAW BAND.
2) PROVIDE BEADING ON ROUND METAL DUCT 12" OR LARGER IN DIAMETER.
3) PROVIDE MINIMUM 4" COLLARS FOR ATTACHMENT OF FLEXIBLE DUCT TO ROUND DUCT, DAMPERS AND DIFFUSERS.
4) BAND RIGID ROUND DUCT INSULATION TO DUCT AND PROVIDE TAPE FOR INSULATION OVERLAP.

01 DIFFUSER CONNECTION DETAIL
NOT TO SCALE



NOTE: INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 96 REQUIREMENTS.

02 ROOF MOUNTED GREASE EXHAUST FAN DETAIL
NOT TO SCALE

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HOOD INFORMATION

HOOD NO.	MARK	MODEL	HOOD DIMENSIONS (IN.)			HOOD CONSTR.	COOKING LOAD / DUTY RATING	EXHAUST						SUPPLY		TOTAL WEIGHT LBS.	SECTION LOCATION
			LENGTH	WIDTH	HEIGHT			TOTAL CFM	COLLAR(S)					MUA CFM	AC CFM		
									WIDTH	LENGTH	DIA.	CFM	S.P.				
1	HOOD #1	XXEW-102-S	102	54	24	430 SS WHERE EXPOSED	HEAVY	1750			14	1750	0.551	1400		281.6	SINGLE

HOOD INFORMATION

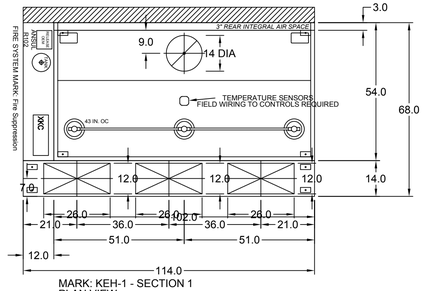
HOOD NO.	MARK	LIGHTING DETAILS			GREASE FILTRATION DETAILS				UTILITY CABINET(S)					
		FIXTURE TYPE BULB / LAMP INFO	QTY	FOOT CANDLES	TYPE / MODEL MATERIAL	QTY	SIZE (IN.) L	SIZE (IN.) H	LOCATION	FIRE SYSTEM TYPE	FIRE SYSTEM SIZE	CONTROLS MODEL	CONTROLS INTERFACE	
1	HOOD #1	ROUND LED	3	79.02	X-TRACTOR STAINLESS STEEL	5	16	20	LEFT	ANSUL R102	3	XKC	TOUCHSCREEN	
						1	20							

SUPPLY PLENUM INFORMATION

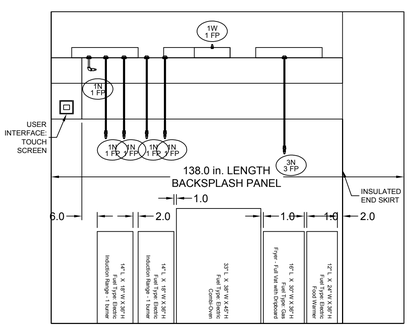
HOOD NO.	MARK	POS.	TYPE	SIZE (IN.) L	SIZE (IN.) W	SIZE (IN.) H	INSULATED	DAMPER(S)	LED LIGHT(S) SUPPLIED	LED LIGHT(S) QTY	TOTAL CFM	COLLARS TYPE	MOUNTING	QTY	W	L	DIA.	CFM	S.P.	VEL.
1	HOOD #1	FRONT	ASP	114	14	10	NO	NO	NO		1400	MUA	FACTORY	3	12	26		467	0.1	216

HOOD OPTIONS

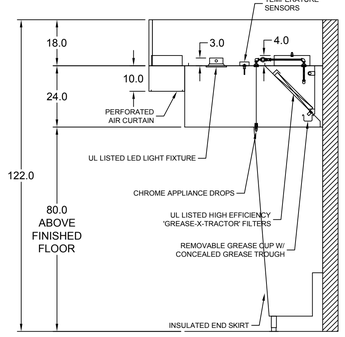
- UL 710 LISTED W/ OUT EXHAUST FIRE DAMPER - UL #R25625
- BACK INTEGRAL AIR SPACE - 3 IN WIDE
- 18 IN HIGH CEILING ENCLOSURES - FRONT LEFT RIGHT - FIELD INSTALLED
- FACTORY MOUNTED EXHAUST COLLAR(S)
- RIGHT INSULATED END PANEL WITH ADJUSTABLE LEG 80 IN HIGH 27.00 IN TOP WIDTH 21.0 IN BOTTOM WIDTH
- BACKSPLASH 122.00 IN HIGH 138.00 IN LONG
- PERFORMANCE ENHANCING LIP (PEL) TECHNOLOGY
- STANDING SEAM CONSTRUCTION FOR SUPERIOR STRENGTH



MARK: KEH-1 - SECTION 1
PLAN VIEW

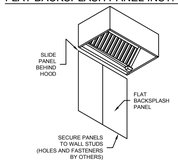


MARK: KEH-1 - SECTION 1
ELEVATION VIEW

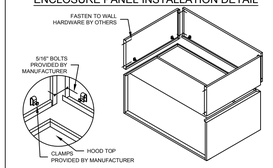


MARK: HOOD #1
SECTION VIEW

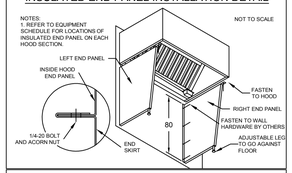
FLAT BACKSPLASH PANEL INST. DETAIL



ENCLOSURE PANEL INSTALLATION DETAIL



INSULATED END PANEL INSTALLATION DETAIL



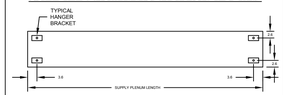
HOOD HANGING HEIGHT FOR FIRE SYSTEMS

VERIFICATION OF HOOD HANGING HEIGHT ABOVE FINISHED FLOOR (A.F.F.) IS REQUIRED FOR CORRECT PLACEMENT OF FIRE SYSTEM NOZZLES.

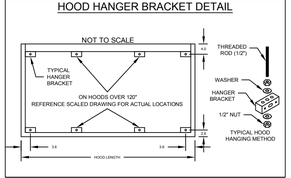
☐ RECOMMENDED HANGING HEIGHT = 80" FROM FINISHED FLOOR TO LOWER FRONT EDGE OF HOOD.

☐ OTHER HANGING HEIGHT = _____" FROM FINISHED FLOOR TO LOWER EDGE OF HOOD.

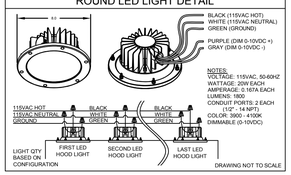
SUPPLY PLENUM HANGER BRACKET DETAIL



HOOD HANGER BRACKET DETAIL



ROUND LED LIGHT DETAIL



ACCUREX

PROJECT 7/5/2022
MARK
DICKEY'S BBQ SAGINAW R2
KEH-1

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SEAL

DICKEY'S - SAGINAW
2903 PIERCE ROAD
SUITE 109
SAGINAW, MI 48604

CLIENT : SMOKING CARDINALS, LLC
1113 CARRIE LYNN DRIVE
SAGINAW, MI 48706

DICKEY'S BARBECUE PIT est. 1941

MI-2197

DATE	DESCRIPTION
07/13/22	ISSUED FOR PERMIT

DATE	DESCRIPTION

SHEET TITLE

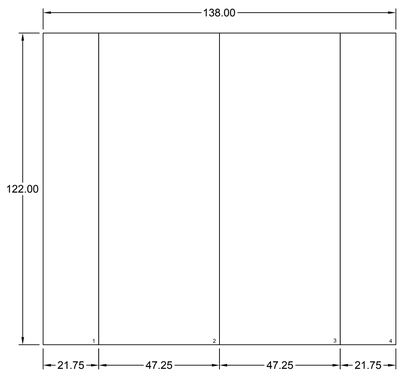
HOOD DRAWINGS

SHEET NUMBER:

M3.0

JLLA PROJECT NUMBER:
DBQ-103

07/13/2022 - ISSUED FOR PERMIT



BACK SPLASH

PROJECT
7/5/2022

Dickey's BBQ Saginaw R2

MARK

KEH-1 - SPLASH PANEL LAYOUT

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DATE	DESCRIPTION
07/13/22	ISSUED FOR PERMIT

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SHEET TITLE

HOOD
DRAWINGS

SHEET NUMBER:

M3.1

JLLA PROJECT NUMBER:
DBQ-103

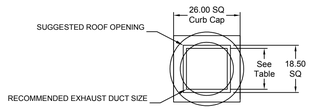
07/13/2022 - ISSUED FOR PERMIT

Direct Drive Upblast Centrifugal Roof Exhaust Fan

MARK INFORMATION		FAN INFORMATION						MOTOR INFORMATION					
QTY	MARK	MODEL	VOLUME (CFM)	TOTAL EXTERNAL SP (IN WG)	FAN RPM	OPERATING POWER (HP)	WEIGHT (LB.)	SIZE (HP)	V/C/P	ENCLOSURE	MOTOR RPM	WINDINGS	NEC FLA*
1	KEF-1	XCUE-140-A	1,750	1.2	1,519	0.64	98	1	208/60/3	OP	1725	1	4.6

*NEC FLA - Based on table 430. 250 or 430. 248 of National Electrical Code 2020. Actual motor FLA may vary for sizing thermal overload, consult factory"

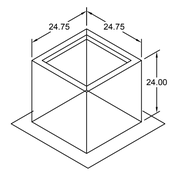
KEF-1 : SELECTED OPTIONS AND ACCESSORIES
Motor VFD Rated without Shaft Grounding Protection
One piece fully welded windband
Tapered bushing wheel hub
Breather tube outlet area min. 4.4 sq. in. (sizes 99-480), 2.0 sq. in. (sizes 60-95)
Min. windband material thickness: 0.051" aluminum (060-240), 0.064" aluminum (240HP, 240XP), 0.080" aluminum (sizes 300-480)
Larger Curb Cap Size - 26 Square
UL/cUL 762 Listed - "Power Ventilators for Rest. Exh. Appliances"
Switch, NEMA-3R, Toggle, Shipped with Unit
Hinge, Factory Installed
Hinge Latch (PN: 879145), Factory Installed
High Temp Curb Seal Rated for Continuous Duty at 1500 F (Factory Attached)
Grease Trap (PN 475538)



DUCT TYPE	SIZE
STANDARD	16 SQ
FIRE-WRAPPED	8 SQ

DUCT DIMENSIONS ARE LARGEST POSSIBLE DUCT TO FIT THROUGH CURB.
CONSULT SYSTEM DESIGN ENGINEER FOR RECOMMENDED DUCT SIZE.

OVERALL HEIGHT MAY BE GREATER DEPENDING ON MOTOR, ADAPTER, AND/OR HINGE BASE.



ACCUREX

PROJECT 7/5/2022

DICKEY'S BBQ SAGINAW R2

MARK

KEF-1

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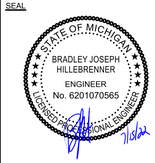

DICKEY'S - SAGINAW
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CLIENT : SMOKING CARDINALS, LLC
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MI-2197

DATE	DESCRIPTION
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DATE	DESCRIPTION

SHEET TITLE

HOOD DRAWINGS

SHEET NUMBER:

M3.2

JLLA PROJECT NUMBER:

DBQ-103

07/13/2022 - ISSUED FOR PERMIT

FIRE SYSTEM INFORMATION

MARK	MODEL	LOCATION	FLOW POINTS		SUPPLY LINE	DETECTION	MARK(S) PROTECTED BY FIRE SYSTEM
			HOODS	PCU			
FIRE SUPPRESSION	ANSUL R-102 WET CHEMICAL	CABINET – LEFT END OF KEH-1	9 UTILIZED 11 AVAILABLE		CONTINUOUS	FUSIBLE LINK	KEH-1 SECTION 1

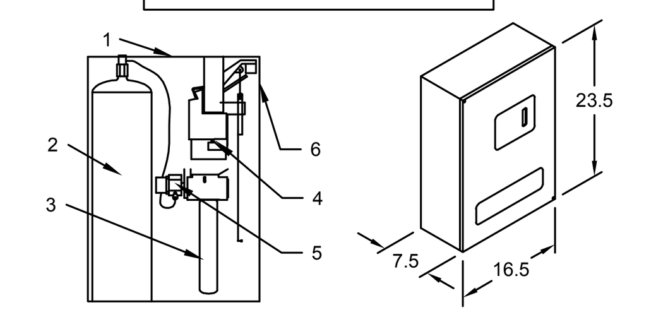
FIRE SYSTEM OPTIONS AND ACCESSORIES

FULL INSTALLATION (INCLUDES PRE-PIPED HOOD(S) WITH DETECTION AND FACTORY COORDINATED INSTALL)
CHROME SLEEVES FOR FACTORY PROVIDED APPLIANCES DROPS - INCLUDED
METAL BLOW-OFF CAPS - INCLUDED
GAS VALVE - INCLUDED - MECHANICAL SHUTOFF VALVE, 2", (ANSUL) - PART# ANSULMECHSHUTOFFVALVE200
HOOD SUPPRESSION TANK - INCLUDED - 3 GAL. - [(1) 3.0 TANK(S)]
REMOTE PULL STATION - STANDARD - FIELD INSTALLATION AT SINGLE POINT OF EGRESS

ANSUL R102 (WET CHEMICAL) FIRE PROTECTION SYSTEM - MODEL FSSC

CONTROL PANEL

1. STAINLESS STEEL ENCLOSURE
2. AGENT STORAGE TANK
3. EXPELLENT GAS CARTRIDGE
4. ANSUL AUTOMAN RELEASE
5. REGULATOR
6. KNOCKOUT FOR WIRING MICROSWITCH



NOT TO SCALE

NOTES:

WET CHEMICAL FIRE PROTECTION SYSTEM TO BE ANSUL R-102, DESIGNED IN COMPLIANCE WITH UL 300 REQUIREMENTS.
-VERIFICATION OF ALL COOKING EQUIPMENT MAKE, MODEL AND LOCATION REQUIRED FOR ALL FIRE PROTECTION SYSTEMS.
-ALL FIRE SYSTEM PIPING IS STANDARDLY TO THE RIGHT END OF THE HOOD UNLESS A WALL IS LOCATED ON THE RIGHT END.
-ANSUL AUTOMAN RELEASE TO BE LOCATED WITHIN 60" OF HOOD.

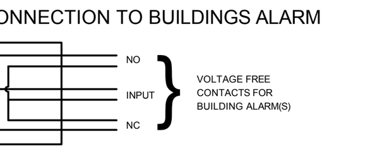
THE BASIC FIRE SYSTEM WILL INCLUDE THE FOLLOWING:
-GAS SHUT-OFF VALVE, IF REQUIRED, TO BE SUPPLIED BY MANUFACTURER (UP TO 2" DIAMETER AS STANDARD), AND INSTALLED BY A LICENSED PLUMBER.
-MICRO SWITCH TO BE SUPPLIED BY MANUFACTURER FOR CONNECTION TO, BUT NOT LIMITED TO, BUILDING ALARM SYSTEM(S), EXHAUST AND SUPPLY FANS AND ELECTRICAL POWER SHUT DOWN. FIELD WIRING AND CONNECTIONS TO BE PERFORMED BY A LICENSED ELECTRICIAN.

THE BASIC FIRE SYSTEM DOES NOT INCLUDE THE FOLLOWING:
-FULL DUMP TEST OTHER THAN WHT IS SPECIFIED PER THE INSTALLATION MANUAL, OR TO SATISFY A STATE OR LOCAL CODE. PERMIT AND TESTING FEES ARE NOT INCLUDED UNLESS NOTED UNDER THE EQUIPMENT SCHEDULE FOR THE FIRE SYSTEM.
-MORE THEN TWO TRIPS TO THE JOBSITE OR SPECIAL TRANSPORTATION, OR OVERNIGHT LODGING REQUIREMENTS IN REMOTE AREAS. NORMAL TRAVEL DISTANCE IS FIRST 50 MI. (80.5 KM) FROM OFFICE.
- SPECIAL CLASSES OR ADDITIONAL LABOR FOR ACCESS TO SECURITY SENSITIVE AREAS.
-INSTALLATION OF GAS SHUT-OFF VALVE.
-SPECIAL DRAWINGS REQUIRED TO SATISFY STATE OR LOCAL CODE. PLAN EXAMINATION FEES, PE OR FS APPROVAL STAMP.
-UNION LABOR, GOVERNMENT LABOR, OR PREVAILING WAGES REQUIRED FOR FINAL FIELD HOOK-UP.
-ANY AND ALL ELECTRICAL COMPONENTS/CONNECTIONS REQUIRED TO SHUT DOWN FANS, SHUT OFF DEVICE FOR ELECTRIC COOKING EQUIPMENT (SHUNT TRIP BREAKER), OR ACTIVATE AN ALARM SYSTEM, ETC.
-ANY DISMANTLING OR REASSEMBLY REQUIRED TO GAIN ACCESS TO THE FIRE SUPPRESSION PIPING LOCATED ON THE TOP OF THE HOOD.
-ROUGH-IN HIDDEN CONDUIT FOR REMOTE PULL STATION OR GAS VALVE (FLUSH MOUNTED PULL STATION).
-INSTALLATION OF MORE THAN (1) REMOTE PULL STATIONS OR DISTANCES GREATER THAN 20 FT (6.1M.)
-PARTS OR LABOR REQUIRED TO CORRECT PIPING DUE TO COOKING EQUIPMENT CHANGES OR DEVIATION FROM PLANS. OR ANY CHARGES FOR MISSING OR ADDITIONAL PARTS OTHER THEN THOSE INDICATED ON THE FIRE SUPPRESSION DETAIL.

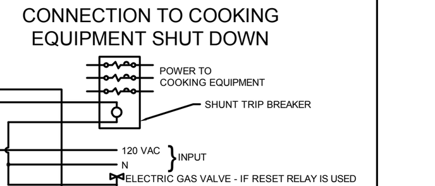
WIRING DIAGRAMS W/DPDT MICRO SWITCH

DPDT SWITCHES PROVIDED BY MANUFACTURER MAY BE WIRED PER TYPICAL EXAMPLES SHOWN. VERIFY WITH LOCAL CODES AND EQUIPMENT SUPPLIED AS THE CONNECTION NEEDED FOR YOUR INSTALLATION.

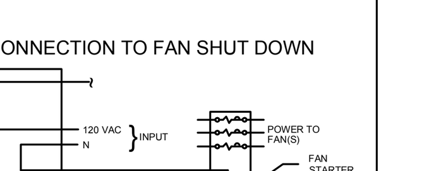
CONNECTION TO BUILDINGS ALARM



CONNECTION TO COOKING EQUIPMENT SHUT DOWN



CONNECTION TO FAN SHUT DOWN



DO NOT SHUT DOWN EXHAUST FANS WITH THIS METHOD OF WIRING, IF PROHIBITED BY LOCAL CODES.

NOTES:
1. ——— DENOTES FIELD INSTALLATION.
2. ——— DENOTES FACTORY INSTALLATION.
3. DO NOT USE BLACK WIRE ON SNAP-ACTION SWITCH IN NORMAL INSTALLATION. BLACK WIRE TO BE USED ONLY FOR EXTRANEOUS ALARM, LIGHT CIRCUITS, ETC.

CONSTRUCTION COMPLIES WITH NFPA 96

DICKEY'S BBQ SAGINAW R2

FIRE SUPPRESSION

PROJECT
7/5/2022

MARK

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SEAL

STATE OF MICHIGAN
BRADLEY JOSEPH HILLEBRENNER
ENGINEER
No. 6201070565
LICENSED PROFESSIONAL ENGINEER

7/15/22

DICKEY'S - SAGINAW
2903 PIERCE ROAD
SUITE 109
SAGINAW, MI 48604

CLIENT : SMOKING CARDINALS, LLC
1113 CARRIE LYNN DRIVE
SAGINAW, MI 48706

DICKEY'S BARBECUE PIT est. 1941

MI-2197

DATE	DESCRIPTION
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SHEET TITLE

HOOD DRAWINGS

SHEET NUMBER:

M3.3

JLLA PROJECT NUMBER:

DBQ-103

07/13/2022 - ISSUED FOR PERMIT

CONTROL INFORMATION

MARK	ELECTRICAL CONTROL PACKAGE		USER INTERFACE		FANS CONTROLLED											
	MODEL	LOCATION	TYPE	LOCATION	FAN #	TYPE	FAN	FAN MARK	ZONE	CFM	MOTOR HP	MOTOR VOLT	CYCLE	MOTOR PHASE	MOTOR STARTER IN PANEL	VFD IN PANEL
CONTROLS	XKC-CV-S-11-1-1-0	LEFT CABINET ON KEH-1	FULL COLOR TOUCHSCREEN	CABINET – LEFT CABINET ON KEH-1	1	EXHAUST	E1	KEF-1	1	1750	1	208	53	3	NO	YES
					2	SUPPLY	S1	MUA-1 HTG ONLY	1	1400	1.5	208	60	3	NO	NO

CONTROL FEATURES

- HOOD LIGHT CONTROL
- TEMP SENSORS (FACTORY INSTALLED) - QTY. 1
- DRY FIRE CONTACTS - QTY. 1
- LIGHTS OFF DURING FIRE
- EXHAUST MAX DURING FIRE
- SUPPLY OFF DURING FIRE
- VFD(S) IN CONTROL PANEL PROVIDED FOR BALANCING

ACCUREX

DOC NUMBER: #### REV: ####

CAUTION
UNIT MUST BE GROUNDED IN ACCORDANCE WITH N.E.C. POWER MUST BE OFF WHILE SERVICING.

ATTENTION
L'APPAREIL DOIT ÊTRE MIS À LA TERRE CONFORMÉMENT AU CODE C.E. L'ALIMENTATION DOIT ÊTRE COUPÉE DURANT L'ENTRETIEN.

c UL us LISTED 43BM

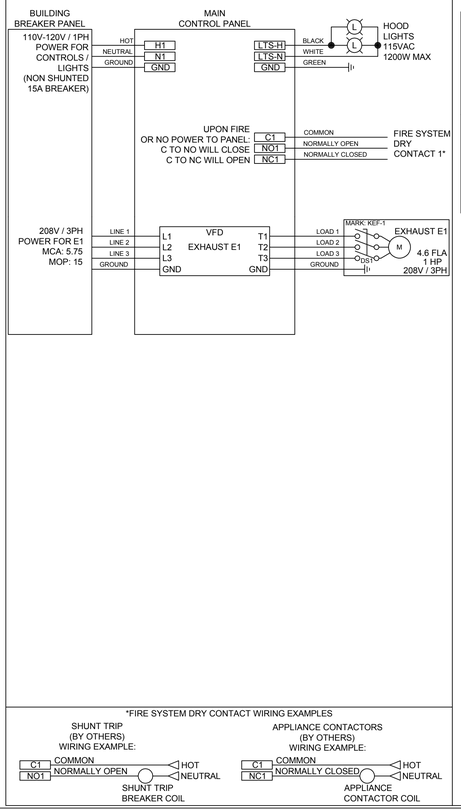
COMMERCIAL APPLIANCE OUTLET CENTER
ELECTRICAL RATINGS: 110-240V,1PHASE, 50-60HZ,15A
BASE FILE #E200616, ML FILE #E313951

THESE DRAWINGS SHALL NOT BE REMOVED FROM THIS EQUIPMENT. USE COPPER CONDUCTORS RATED TO 90°C UNLESS SPECIFIED. TORQUE CONTROL & GROUND BLOCKS TO 8 LBS. IN. TORQUE POWER LUGS/SCREWS TO COMPONENT RATINGS LISTED. TORQUE CONTROL BOARD SCREW TERMINALS TO 3.5 LBS. IN. FIELD CONTROL WIRING RESISTANCE SHOULD NOT EXCEED 0.75 OHM. SEE IOM FOR ADDITIONAL INFORMATION, OR CALL FACTORY AT 1-800-371-6858.
PRG VERSION: V4
FIELD WIRED (CÂBLÉ LOCALEMENT) ——
FACTORY WIRED (CÂBLÉ À L'USINE) - - -

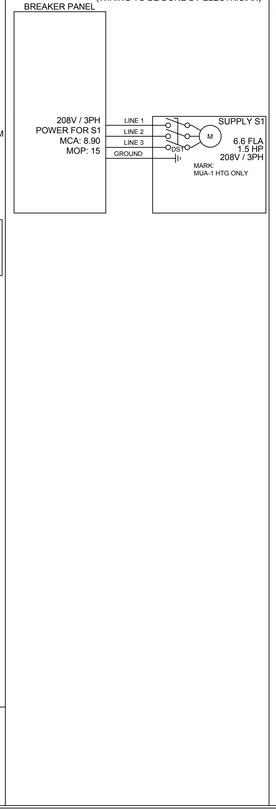
NE PAS RETIRER CES DESSINS DE CET ÉQUIPEMENT. SAUF INDICATION CONTRAIRE, UTILISER DES CONDUCTEURS EN CUIVRE CLASSÉS 90 °C. SERRER LES BORNES DE COMMANDE ET DE MISE À LA TERRE À 8 LB-PO. SERRER LES COSSES/VIS D'ALIMENTATION AUX COUPLES INDIQUÉS POUR LE COMPOSANT. SERRER LES BORNES À VIS DE LA CARTE DE COMMANDE À 3,5 LB-PO. LA RÉSISTANCE DU CÂBLAGE DE COMMANDE LOCAL NE DOIT PAS DÉPASSER 0,75 OHM. POUR PLUS D'INFORMATION, CONSULTER LE MANUEL OU APPELER 1-800-371-6858

WIRING DIAGRAM CODE: #####
JOB NAME: DICKEY'S BBQ SAGINAW R2
MODEL: XKC-CV-S-11-1-1-0
SERIAL NUMBER: WDSN#
MARK: CONTROLS

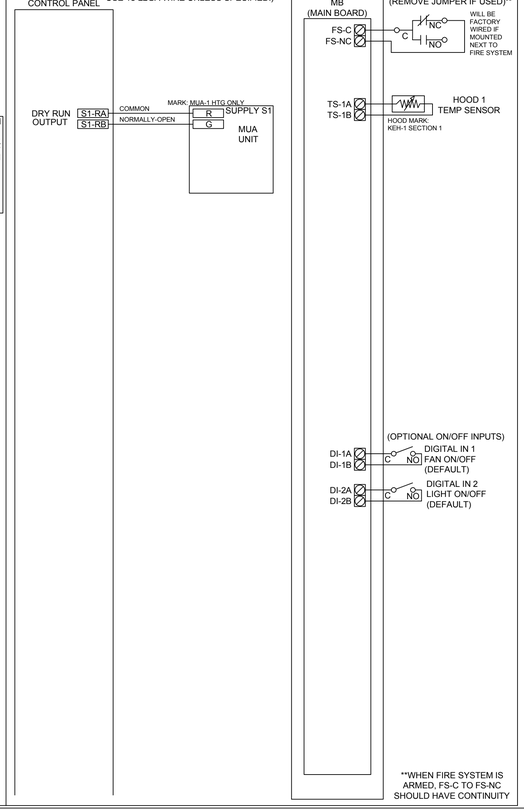
POWER WIRING FOR KITCHEN CONTROLS
(WIRING TO BE DONE BY ELECTRICIAN)



POWER WIRING FROM BREAKER PANEL DIRECT TO FANS
(WIRING TO BE DONE BY ELECTRICIAN)



CONTROL WIRING FOR KITCHEN CONTROLS
(WIRING TO BE DONE BY ELECTRICIAN, IF NO CONTROLS CONTRACTOR. USE 18-22GA WIRE UNLESS SPECIFIED.)

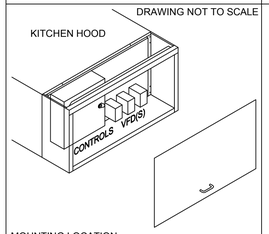


**WHEN FIRE SYSTEM IS ARMED, FS-C TO FS-NC SHOULD HAVE CONTINUITY

*FIRE SYSTEM DRY CONTACT WIRING EXAMPLES

CABINET DETAILS

DRAWING NOT TO SCALE



MOUNTING LOCATION:
UTILITY CABINET ON HOOD
(INNER CONTROL BOX: 12 X 20 X 6)

NOTES:
1) WHEN CONTROLS ARE MOUNTED IN HOOD-MOUNTED OR WALL-MOUNTED UTILITY CABINET, FOR HOOD OR WALL CABINET DIMENSIONS SEE HOOD SUBMITTAL.

2) MINIMUM OF 36" OF CLEARANCE RECOMMENDED IN FRONT OF CONTROL CABINET

USER INTERFACE DETAILS

MOUNTING TYPE
FACTORY MOUNTED:
UTILITY CABINET - LEFT END OF HOOD

USER INTERFACE CONTROL
FANS AND LIGHTS

INTERFACE CABLE LENGTH
7FT (FACTORY PROVIDED)

ZONE CONFIGURATION

ZONE #	ZONE	ROOM TEMP
1	Z1	PRESET

HOOD CONFIGURATION

HOOD #	HOOD	HOOD MARK	ZONE	EXHAUST	SUPPLY	MB-TEMP SENSORS	HCB
1	H1	KEH-1 SECTION 1	Z1	E1	S1	TS1	NO

FAN CONFIGURATION

FAN #	TYPE	FAN	FAN MARK	ZONE	MIN CFM	MAX CFM	MODBUS VFD	VFD ADDRESS	MIN FREQ.	MAX FREQ.	MIN VDC	MAX VDC
1	EXHAUST	E1	KEF-1	Z1	-	1750	YES	1	27	53	-	-
2	SUPPLY	S1	MUA-1 HTG ONLY	Z1	-	1400	NO	-	-	-	-	10.0

WIRING DIAGRAM CODE: #####
JOB NAME: DICKEY'S BBQ SAGINAW R2
MODEL: XKC-CV-S-11-1-1-0
SERIAL NUMBER: WDSN#
MARK: CONTROLS
DOC NUMBER: #### REV: ####

DEFAULT SETTINGS / PARAMÈTRES PAR DÉFAUT

FACTORY SETTINGS
TYPE: CV
CONFIGURATION: STANDARD
ZONES: 1
HOODS: 1
SUMPS: 0
EXHAUST FANS: 1
SUPPLY FANS: 1
MB ROOM SENSOR: NO
MB TEMP SENSORS: 1
HIGH TEMP FAULT: NO
FREEZE PROTECTION: YES
GAS RESET: NO
FAN PROVING: NO
BMS: NONE

ZONE SETTINGS
SEE ZONE CONFIGURATION IN TABLE ON LEFT

HOOD SETTINGS
SEE HOOD CONFIGURATION IN TABLE ON LEFT

EXHAUST FAN SETTINGS
SEE FAN CONFIGURATION IN TABLE ON LEFT

SUPPLY FAN SETTINGS
SEE FAN CONFIGURATION IN TABLE ON LEFT

SENSOR SETTINGS
SEE HOOD CONFIGURATION IN TABLE ON LEFT

USER INTERFACE SETTINGS (MB)
FAN & LIGHT BUTTONS: SHOW BOTH (SEPERATE)

USER INTERFACE SETTINGS (HCB)
NA

GENERAL SETTINGS
TIME ZONE: CENTRAL DAYLIGHT (DEFAULT)

FIRE FAULT SETTINGS
EXHAUST DURING FIRE: MAX
SUPPLY DURING FIRE: OFF
LIGHTS DURING FIRE: OFF

BMS SETTINGS
NA

PRG VERSION: V4

PROJECT 7/5/2022
DICKEY'S BBQ SAGINAW R2
MARK
CONTROLS

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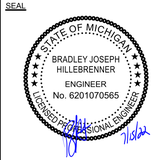
SEAL



DICKEY'S - SAGINAW
2903 PIERCE ROAD
SUITE 109
SAGINAW, MI 48604

CLIENT : SMOKING CARDINALS, LLC
1113 CARRIE LYNN DRIVE
SAGINAW, MI 48706

DICKEY'S BARBECUE PIT est. 1941

MI-2197

DATE	DESCRIPTION
07/13/22	ISSUED FOR PERMIT

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SHEET TITLE
HOOD DRAWINGS

SHEET NUMBER:
M3.4

JLLA PROJECT NUMBER:
DBQ-103

07/13/2022 - ISSUED FOR PERMIT

EQUIPMENT SCHEDULE

Tempered Make-Up Air Unit — **Mark: MUA-1 htg only**

Qty	Accurex Model	Volume	External SP	Total SP	FRPM	Operating Power	Weight
1	XDGX-P115-H05-VFD	1,400 CFM	0.5 in. wg	1.461 in. wg	1546	0.72 hp	420 lb

Motor Information							
Size	V/C/P	Enclosure	Motor with Shaft Grounding	Motor RPM	Windings	MCA	MOP
1 1/2 hp	208/60/3	ODP	No	1725	1	8.9	15

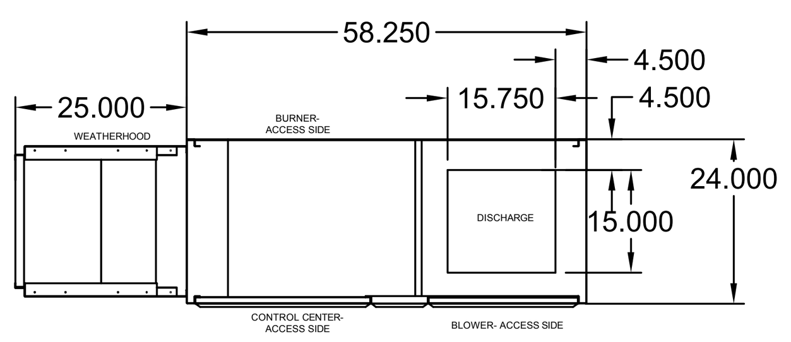
Heating										
Type	Gas Type	Temperature			Energy			Connection	Building Gas Pressure	Control Access
		Winter DB	Max Δ	Max LAT	Input	Output	Efficiency	Gas		
Direct Gas	Natural	0.0 F	70.0 F	70.0 F	115.0 MBH	105.8 MBH	92%	3/4"	1/2 PSI	11a

Outlet Sound Power By Octave Band								LwA	dBA	Sones
62.5	125	250	500	1000	2000	4000	8000			
77.2	*76.4*	*78.7*	*71.9*	*61.7*	*52.9*	*47*	*46*	*73.3*	*62.3*	*10.8*

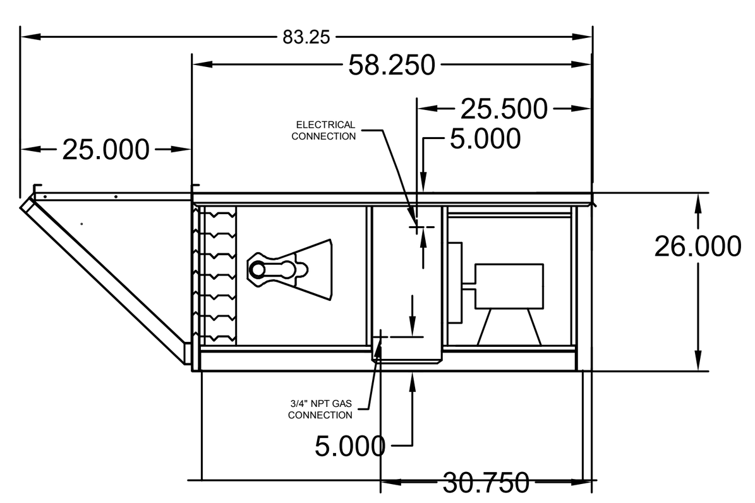
• LwA - A weighted sound power level based on ANSI S1.4
• dBA - A weighted sound pressure level base on 11.f dB attenuation per octabe band at 5.0 ft.
• Noise Criteria (NC) based on an average attenuation of 11.5 dB per octabe band at 5.0 ft.

OPTIONS AND ACCESSORIES

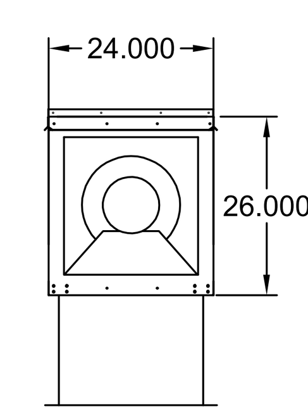
Air Flow Arrangement: Outdoor Air Only
Weatherhood: Aluminum Mesh, 16x20x2 - (2)
Damper: Inlet
Outdoor Air Intake Position: End
Discharge Position: Bottom
Coating: Galvanized
Insulation: Double Wall - Tempering On
Supply Fan Control: VFD
VFD Control: Constant Volume
Access Side: Right-Hand
Control Center
Heat Inlet Air Sensor
Unit Controls: Terminal Strip
Temperature Control: Discharge
Direct Gas Options/Accessories
Approvals: ETL
FM Compliant
Flame Sensing: Flame Rod
Ignition Control: Pilot
Unit Rated Gas Pressure: 1/2 PSI
Unit Warranty: 1 Yr (Standard)



PLAN VIEW



ELEVATION VIEW



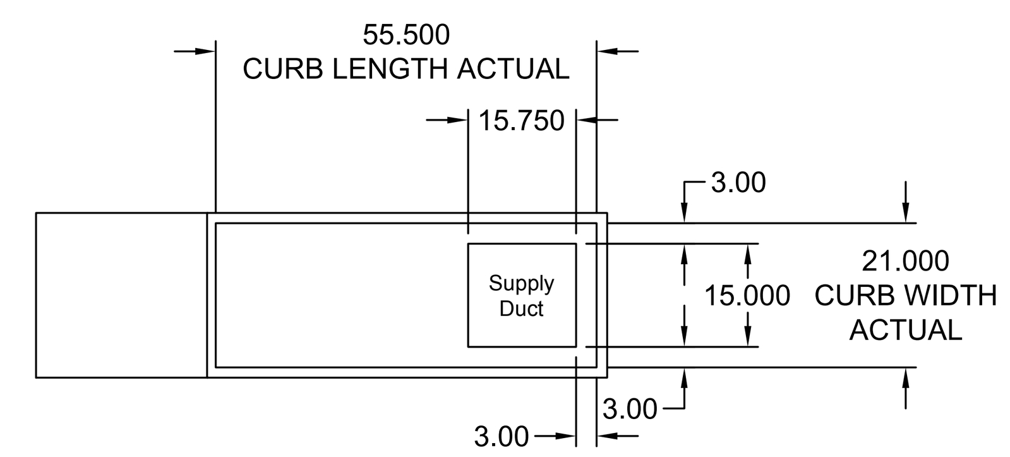
END VIEW

NOTE: Roof Opening Requirements:

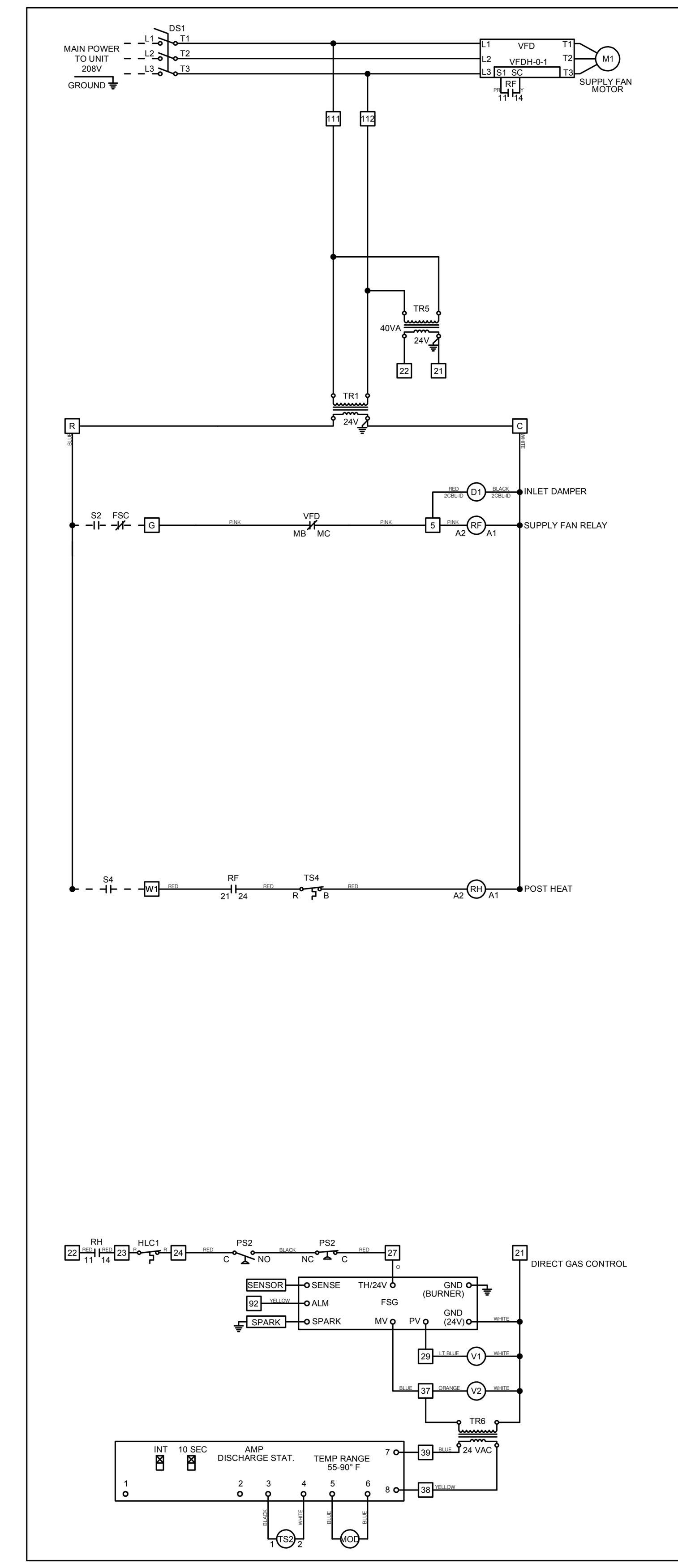
Minimum Roof Opening: The minimum roof opening size is the illustrated duct diameter plus 0.25 in. on all sides.
For example: If the duct size is 14 x 14 in. square, the minimum roof opening size is 14.5 x 14.5 in. square.

Maximum Roof Opening: There must be a minimum perimeter of 1.75 in. between the roof opening and the roof curb.
For example: If the roof curb is 75 x 30 in. square, the maximum roof opening is 71.5 x 26.5 in. inches square.

NOTE: The weatherhood and filter sections of the make-up air unit are not supported by the curb.
This is by design, in order to help alleviate water infiltration issues. MUA Unit supports are shipped loose with unit.



FOOTPRINT



ACCUREX

Wiring Diagram Code:
AD61N401B010N10NM24

CAUTION
UNIT SHALL BE GROUNDED IN ACCORDANCE WITH N.E.C.
POWER MUST BE OFF WHILE SERVICING.

NOTES
USE COPPER CONDUCTORS ONLY
60° C FOR TERMINALS RATED LESS THAN 100 AMPS.
75° C FOR TERMINALS RATED 100 AMPS OR MORE.

FIELD CONTROL WIRING RESISTANCE SHOULD
NOT EXCEED 0.75 OHM.

FIELD WIRED – – – – –
FACTORY SUPPLIED AND WIRED ———

WIRE COLOR CODE

BK	BLACK	BL	BLUE	BR	BROWN
GY	GRAY	LT BL	LIGHT BLUE	O	ORANGE
PK	PINK	PR	PURPLE	R	RED
W	WHITE	Y	YELLOW		

LEGEND
AMP AMPLIFIER
D1 INLET DAMPER
DS1 MAIN DISCONNECT SWITCH
FSC FIRE SYSTEM CONTACT
FSG FLAME SAFE GUARD
HLC HIGH LIMIT CONTROL
M# MOTOR
MOD MODULATING VALVE
PS2 AIR PROVING SWITCH
RF SUPPLY FAN RELAY
RF1 FAN ENABLE RELAY
RH HEAT RELAY
S2 FAN SWITCH
S4 HEAT AND COOL SWITCH
SG SPARK GENERATOR
ST# MOTOR STARTER
TR# TRANSFORMER
TS2 DISCHARGE AIR SENSOR
TS4 INLET AIR SENSOR - HEAT
V1 PILOT VALVE
V2 MAIN VALVE
VFD VARIABLE FREQUENCY DRIVE

Wiring Template: M24 DOC NUMBER: #### REV: ####

DICKEY'S BBQ SAGINAW R2
MUA-1 HTG ONLY
PROJECT 7/5/2022
MARK
CONSTRUCTION COMPLIES WITH NFPA 96

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LICENSED PROFESSIONAL ENGINEER
[illegible] 7/15/22

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SHEET TITLE

HOOD DRAWINGS

SHEET NUMBER:

M3.5

JLLA PROJECT NUMBER:
DBQ-103

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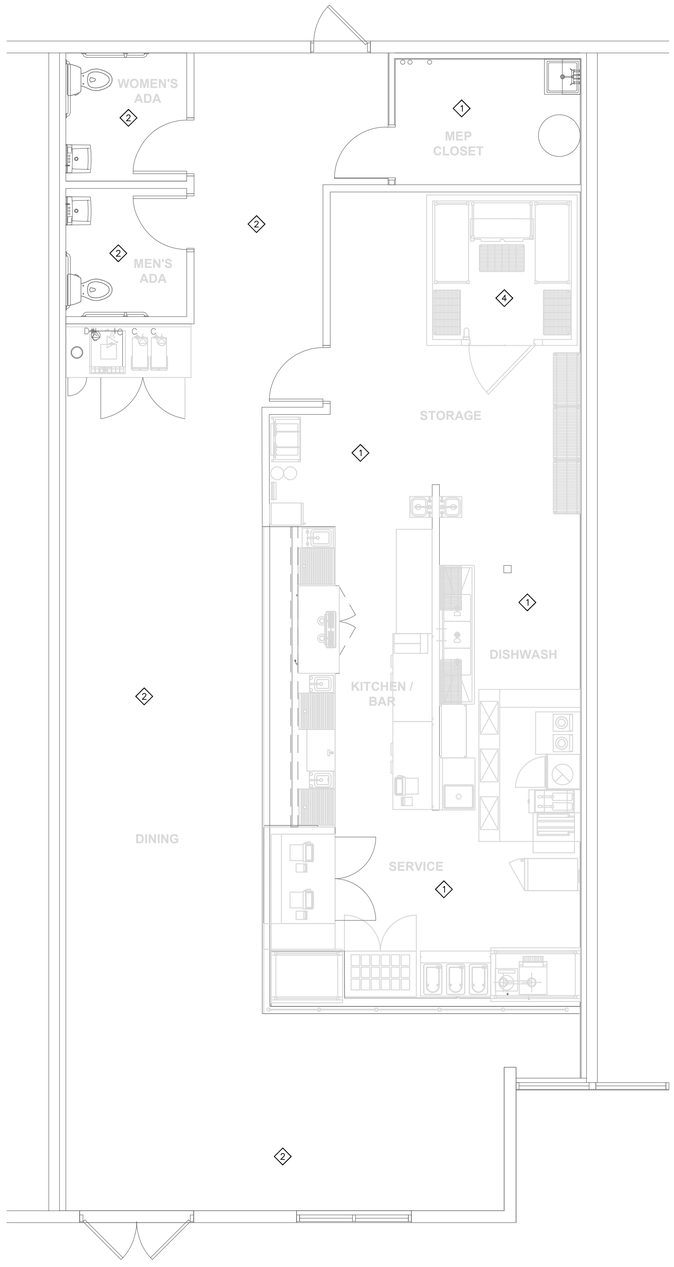

01 FIRE PROTECTION PLAN
1/4" = 1'-0"

FIRE SPRINKLER GENERAL NOTES

1. THE ABBREVIATION GC, WHEREEVER IT APPEARS IN THESE DRAWINGS, SHALL REFER TO THE GENERAL CONTRACTOR.
2. THE CONTRACTOR FOR THIS DIVISION OF WORK IS REQUIRED TO READ THE SPECIFICATIONS AND REVIEW DRAWINGS FOR ALL DIVISIONS OF WORK AND IS RESPONSIBLE FOR THE COORDINATION OF THIS WORK AND THE WORK OF ALL SUBCONTRACTORS WITH ALL DIVISIONS OF WORK. IT IS THIS CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL SUBCONTRACTORS WITH A COMPLETE SET OF BID DOCUMENTS.
3. FIRE PROTECTION PLANS AND SPRINKLER DRAWINGS SHALL BE ENGINEERED AND WET SIGNED BY A LANDLORD APPROVED, LICENSED REGISTERED FIRE PROTECTION CONTRACTOR IN THE LOCAL JURISDICTION. FINAL INSTALLATION MUST COMPLY WITH NFPA 13 AND STATE AND LOCAL AUTHORITIES HAVING JURISDICTION.
4. SPRINKLER HEAD LAYOUT IS A SUGGESTED LAYOUT. COORDINATE SPRINKLER HEAD LAYOUT AND PIPE ROUTING WITH ARCHITECTURAL PLANS, STRUCTURAL PLANS, HVAC CONTRACTOR, ELECTRICAL CONTRACTOR AND THE GC. THIS CONTRACTOR SHALL INCLUDE IN THE BID AND BE RESPONSIBLE FOR EXACT QUANTITY OF SPRINKLER HEADS REQUIRED FOR COVERAGE AND FINAL APPROVAL.
5. THIS FIRE PROTECTION CONTRACTOR SHALL PREPARE DETAILED SHOP DRAWINGS AND CALCULATIONS FOR THEIR WORK. SUBMIT TO THE GC FOR ARCHITECTURAL APPROVAL OF HEAD LOCATIONS AND TYPES.
6. THIS FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR SUBMITTING COORDINATED DRAWINGS, HYDRAULIC CALCULATIONS, HEAD TYPES AND COLORS TO ALL AUTHORITIES HAVING JURISDICTION FOR APPROVAL. NO WORK SHALL BEGIN UNTIL ALL APPROVALS HAVE BEEN RECEIVED.
7. SPRINKLER HEADS TO MATCH COLOR OF THE SURROUND AREAS. EXAMPLE: BLACK IN THE THEATER, CHROME PLATED IN NON-PUBLIC SPACE. VERIFIED WITH ARCHITECT FOR COLOR AND ADDITIONAL INFORMATION.

FIRE PROTECTION NOTES

GENERAL:
1. PROVIDE AUTOMATIC WET PIPE SPRINKLER SYSTEM THROUGHOUT ENTIRE BUILDING, UNLESS OTHERWISE NOTED OR INDICATED. COVERAGE SHALL BE FOR LIGHT HAZARD OCCUPANCY.
2. FIRE SPRINKLER CONTRACTOR SHALL ROUTE FIRE PROTECTION PIPING AS REQUIRED TO AVOID NEW/EXISTING PLUMBING, HVAC, AND ELECTRICAL.

1 PROVIDE COVERAGE OF ORDINARY HAZARD OCCUPANCY FOR THIS AREA.

2 PROVIDE COVERAGE OF LIGHT HAZARD OCCUPANCY FOR THIS AREA.

3 PROVIDE SHIELDS, TRAYS, AND OTHER PROTECTION IN ACCORDANCE WITH NFPA REQUIREMENTS FOR THIS AREA.

4 PROVIDE DRY PIPE SPRINKLER HEAD IN COOLER.

FIRE PROTECTION CRITERIA

SPACE IS CURRENTLY SERVED BY AUTOMATIC WET PIPE FIRE SPRINKLER SYSTEM. CONTRACTOR IS RESPONSIBLE FOR MODIFICATION OF EXISTING FIRE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA REQUIREMENTS. PROVIDE ALL MATERIALS AND LABOR REQUIRED FOR COMPLETE INSTALLATION. SYSTEM MODIFICATIONS SHALL BE DESIGNED UNDER SUPERVISION OF LICENSED PROFESSIONAL ENGINEER, AND CONTRACTOR SHALL PREPARE REQUIRED SIGNED/SEALED DRAWINGS, CALCULATIONS, AND SHALL OBTAIN APPROVAL OF STATE, LOCAL, AND INSURANCE UNDERWRITING AUTHORITIES. SPRINKLER SYSTEM SHALL BE TESTED UNDER PRESSURE BY CONTRACTOR, AND INSPECTED AND APPROVED BY LOCAL FIRE MARSHAL, PRIOR TO ACCEPTANCE BY OWNER.

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FIRE PROTECTION PLAN

SHEET NUMBER:
FP1.0

JLLA PROJECT NUMBER:
DBQ-103

07/13/2022 - ISSUED FOR PERMIT

PLUMBING SPECIFICATION

THE WORK INCLUDES MODIFICATION TO EXISTING PLUMBING SYSTEM AND PROVIDING NEW MATERIALS, FITTINGS AND ACCESSORIES NECESSARY FOR A COMPLETE FUNCTIONING PLUMBING SYSTEM. THE WORK ALSO INCLUDES ROUGH–IN AND FINAL CONNECTIONS TO FOOD SERVICE EQUIPMENT AND BEVERAGE DISPENSING EQUIPMENT PROVIDED BY OTHERS. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES AND ORDINANCES AND IS SUBJECT TO INSPECTION.

HOOK–UP CHARGES, PERMITS AND ALL OTHER EXPENSES RELATED TO A COMPLETE AND FUNCTIONING PLUMBING SYSTEM ARE INCLUDED AS A PART OF THIS SECTION.

INTENT OF DRAWINGS IS TO INDICATE GENERAL EXTENT OF WORK REQUIRED. DRAWINGS FOR PLUMBING WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, FIXTURES AND EQUIPMENT REQUIRED. DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. REFER TO MANUFACTURER'S STANDARD ROUGH–IN DRAWINGS FOR PLUMBING FIXTURE INSTALLATION REQUIREMENTS. COMPLY WITH APPLICABLE ADA INSTALLATION REQUIREMENTS.

COORDINATE WITH THE WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, AND WITH CONSTRAINTS OF EXISTING CONDITIONS OF PROJECT SITE.

PIPING SYSTEMS – GENERAL: PIPING SHALL BE RUN PARALLEL TO BUILDING LINES AND SUPPORTED AND ANCHORED AS REQUIRED TO FACILITATE EXPANSION AND CONTRACTION. PIPING SHALL BE CONCEALED EXCEPT IN UNFINISHED SPACES. INSTALL PIPING AS REQUIRED TO MEET ALL CONSTRUCTION CONDITIONS AND TO ALLOW FOR INSTALLATION OF OTHER WORK SUCH AS DUCTS AND ELECTRICAL CONDUIT. PROVIDE ISOLATING DIELECTRIC UNION AT ALL CONNECTIONS BETWEEN FERROUS PIPING AND NONFERROUS PIPING. HANGERS SHALL BE COMPATIBLE WITH PIPING MATERIAL TO PREVENT CORROSION.

PROVIDE ALL FITTINGS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE PLUMBING SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND EQUIPMENT INDICATED.

FIXTURES/EQUIPMENT FURNISHED BY OTHERS: PLUMBING CONTRACTOR SHALL PROVIDE UTILITY CONNECTIONS REQUIRED SUCH AS WATER, GAS, SUPPLIES, WASTE OUTLET, TRAPS, ETCETERA AT ALL PLUMBING TYPE FIXTURES OR EQUIPMENT FURNISHED BY OWNER, GENERAL CONTRACTOR, FOOD SERVICE CONTRACTOR, EQUIPMENT SUPPLIER, ETCETERA. PROVIDE STOP VALVES, ESCUTCHEONS, AND CHROME PLATED BRASS TUBING WITH COMPRESSION FITTINGS.

SANITARY SEWER AND GREASE WASTE PIPING: PROVIDE ALL DRAINS AND PIPING WITHIN PROJECT SPACE WITH CONNECTION TO EXISTING DRAINAGE SYSTEMS ON–SITE. SANITARY DRAINAGE PIPING ABOVE FLOOR SHALL BE HUBLESS CAST–IRON PIPE AND FITTINGS AND CONNECTIONS. IF ALLOWED BY LOCAL CODE AND CEILING SPACE IS NOT UTILIZED AS RETURN AIR PLENUM, CONTRACTOR MAY UTILIZE ABS/PVC PLASTIC PIPE, WITH SOLVENT WELD FITTINGS. SANITARY DRAINAGE PIPING BELOW GRADE SHALL BE ABS/PVC PLASTIC PIPE WITH SOLVENT WELD FITTINGS (IF ALLOWED BY LOCAL CODE), OR SERVICE–WEIGHT HUB AND SPIGOT TYPE CAST–IRON WITH NEOPRENE GASKET JOINT SYSTEM. ALL DRAINAGE PIPING SHALL BE UNIFORMLY PITCHED AT 1/4" PER FOOT FOR PIPE SIZES 3" AND SMALLER AND 1/8" PER FOOT FOR PIPE SIZES 4" AND LARGER, UNLESS OTHERWISE REQUIRED BY EXISTING CONDITIONS, OR INDICATED ON DRAWINGS.

SANITARY VENT PIPING: PROVIDE COMPLETE SYSTEM OF ABS/PVC PLASTIC PIPE, WITH SOLVENT WELD FITTINGS, OR STANDARD WEIGHT CAST IRON NO–HUB PIPE AND FITTINGS. VENT SYSTEM SHALL BE CARRIED THROUGH THE ROOF WITH APPROPRIATE FLASHING.

CONDENSATE AND INDIRECT DRAIN PIPING: TYPE M COPPER TUBING UP TO 1" ID, TYPE DWV COPPER TUBING AND FITTINGS FOR 1–1/4" AND LARGER SIZES.

CLEANOUTS: PROVIDE CLEANOUTS AT END OF EACH HORIZONTAL RUN, AND AT BASE OF ALL VERTICAL STORM, WASTE AND DRAIN PIPES. CLEANOUTS SHALL BE OF SAME SIZE AS PIPES THEY SERVE, CONFORMING TO CODE REQUIREMENTS. PROVIDE SUITABLE WALL OR FLOOR CLEANOUTS WITH ACCESSORIES TO OBSCURE FROM VIEW. PROVIDE FLOOR MAKER IF BELOW RAISED FLOOR.

WATER DISTRIBUTION PIPING: LAYOUT WATER PIPING SO THAT ENTIRE SYSTEM CAN BE DRAINED. ABOVE GRADE HOT AND COLD WATER PIPING SHALL BE 1/2" MINIMUM TYPE L COPPER TUBING WITH WROUGHT COPPER FITTINGS AND SWEAT CONNECTIONS. BELOW GRADE HOT AND COLD WATER PIPING SHALL BE 1/2" MINIMUM TYPE K COPPER TUBING WITH WROUGHT COPPER FITTINGS, AND SWEAT CONNECTIONS. PROVIDE WATER HAMMER ARRESTERS AT EACH FIXTURE OR GROUP OF FIXTURES AS REQUIRED. PROVIDE CHROME PLATED BRASS ESCUTCHEON PLATES AT ALL PENETRATIONS THROUGH FINISHED SURFACES (INCLUDING CABINET INTERIORS). USE LEAD FREE OR TIN–ANTIMONY SOLDER, 95/5 FOR ALL SWEAT FITTINGS OF COPPER PIPING.

PIPE INSULATION: PROVIDE RIDGE ONE–PIECE FIBERGLASS PIPE INSULATION WITH REQUIREMENTS COMPLYING WITH ASTM C 547, SELF–SEALING ADHESIVE LAP LONGITUDINAL JOINTS AND BUTT STRIPS FOR TRANSVERSE JOINTS. JACKETING SHALL CONFORM TO ASTM C 1136, TYPE I, MAXIMUM VAPOR TRANSMISSION RATING OF 0.02 PERM WHEN TESTED ACCORDING TO ASTM E 96, PROCEDURE A, (K VALVE) 0.25 BTU/IN./HR. * FT2 * °F AT 75°F MEAN TEMPERATURE WITH MINIMUM R–VALVE OF R4.

PROVIDE INSULATION THICKNESS AS INDICATED:
DOMESTIC COLD WATER;
PIPING 1" AND SMALLER: 1/2" THICKNESS.
PIPING 1–1/4" – 1–1/2": 3/4" THICKNESS.
PIPING 2" AND LARGER: 1" THICKNESS.
DOMESTIC HOT WATER;
PIPING 1" AND SMALLER: 1" THICKNESS.
PIPING 1–1/4 AND LARGER: 1–1/2" THICKNESS.
PLUMBING VENT PIPING WITHIN 6 FEET OF ROOF OUTLET: 1" THICKNESS.
CONDENSATE PIPING: 1/2" THICKNESS.

INSULATION FOR WATER AND WASTE PIPING BELOW ACCESSIBLE LAVATORIES/SINKS: PROVIDE TRUBRO "LAVGUARD 2" PRE–MANUFACTURERED ADA TRAP AND SUPPLY PROTECTION OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

PROVIDE SHUTOFF VALVES WITH UNIONS FOR SERVICE TO EACH PLUMBING FIXTURE, FOOD SERVICE EQUIPMENT ITEM OR OTHER EQUIPMENT ITEM, TO FACILITATE ISOLATION FOR REPAIR OR REPLACEMENT. PIPE LINE VALVES SHALL BE QUARTER TURN BALL VALVE EQUAL TO CRANE SERIES #9200, WITH TWO PIECE BRONZE BODY, FULL PORTED, CHROME PLATED BRASS BALL, REPLACEABLE "TEFLON OR TFE" SEATS AND SEALS, RATING OF 150 PSI WSP, 600 PSI WOG. CONNECTIONS SHALL BE SOLDER OR THREADED ENDS TO MATCH PIPING. STANDARDS COMPLIANCE – BRONZE OR BRASS VALVES: MSS–SP–110. WHEN SHUTOFF VALVES ARE PLACE IN CEILING, VALVES SHALL BE LOCATED AT MAXIMUM 12" ABOVE CEILING, AND NOTHING SHALL BE PLACE BETWEEN CEILING ACCESS AND VALVES.

PROVIDE ACCESS PANELS WHERE CONCEALED CONTROL DEVICES, VALVES, ETCETERA ARE CONCEALED WITHIN WALLS. WHERE ACCESS FOR ADJUSTMENT AND MAINTENANCE IS POSSIBLE THROUGH LAY–IN SUSPENDED CEILINGS, ACCESS PANELS ARE NOT REQUIRED.

INSTALLATION: THOROUGHLY CLEAN ITEMS BEFORE INSTALLATION. CAP PIPE OPENINGS TO EXCLUDE DIRT UNTIL FIXTURES ARE INSTALLED AND FINAL CONNECTIONS HAVE BEEN MADE. PROCEED AS RAPIDLY AS CONSTRUCTION WILL PERMIT. SET FIXTURES LEVEL AND IN PROPER ALIGNMENT. INSTALL SUPPLIES IN PROPER ALIGNMENT WITH FIXTURES. INSTALL SILICONE SEALANT BETWEEN FIXTURES AND ADJACENT MATERIAL, FOR SANITARY JOINT, AND OMIT ESCUTCHEONS.

REPAIR EXISTING PLUMBING SYSTEM COMPONENTS DAMAGED BY CONSTRUCTION OPERATIONS AND RESTORE TO ORIGINAL CONDITION.

TEST WATER SYSTEM UNDER 150 PSIG HYDROSTATIC PRESSURE, FOR MINIMUM FOUR (4) HOURS. WHEN TESTING INDICATES MATERIALS OR WORKMANSHIP IS DEFICIENT, REPLACE OR REPAIR AS REQUIRED, AND REPEAT TEST UNTIL STANDARDS ARE ACHIEVED.

TEST SANITARY DRAINAGE AND VENT SYSTEM BY FILLING WITH WATER, WITH ALL POINTS IN SYSTEM BEING SUBJECT TO PRESSURE OF AT LEAST 10' OF WATER. WATER LEVEL SHALL REMAIN STATIONARY FOR A PERIOD OF ONE HOUR, WITHOUT PIPE OR JOINT LEAKAGE. IF TESTING INDICATES DEFICIENCIES REPLACE OR REPAIR AS REQUIRED, AND REPEAT TEST UNTIL STANDARDS ARE ACHIEVED.

NATURAL GAS SYSTEM: PROVIDE COMPLETE GAS PIPING SYSTEM TO SERVE GAS FIRED HVAC EQUIPMENT, DOMESTIC WATER HEATERS AND EQUIPMENT FURNISHED BY OTHERS, AS NOTED ON THE DRAWINGS. PROVIDE THREADED STEEL OR MALLEABLE IRON PIPE WITH MALLEABLE FITTINGS OR WELDED STEEL. PROVIDE ALL UNIONS, SHUT–OFF VALVES AND DIRT LEGS REQUIRED BY NFPA–54 AND GOVERNING LOCAL CODES AND AT EACH GAS APPLIANCE CONNECTION. PROVIDE ALL TESTS, METERS, INSPECTIONS, HANGERS AND EQUIPMENT CONNECTIONS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM.

GREASE INTERCEPTOR SIZING

EQUIPMENT TAG	TYPE	QTY.	BOWL DIMENSIONS			FLOW RATE: (GAL*0.75/2MIN)
			WIDTH	LENGTH	DEPTH	
21	1–COMP SINK	1	18	18	14	7.4
25	3–COMP SINK	1	18	18	14	22.1
MS	MOP SINK	1	24	24	10	9.4
FS	FLOOR SINK	1	12	12	8	1.9
					TOTAL =	40.7
					DAYS BETWEEN PUMP OUT =	90
NUMBER OF MEALS PER DAY	200				GREASE PRODUCTION VALUE =	0.035
GREASE PRODUCTION: NUMBER OF SEATS * GREASE PRODUCTION VALUE * DAYS BETWEEN PUMP OUT =						630.0

WITH 630 LBS OF FOG AND A FLOW RATE OF 40.7 GPM, PROVIDE SCHIER MODEL GB–75 GREASE INTERCEPTOR.

WATER PIPING DESIGN:

WATER PIPING DESIGN IS BASED ON TOTAL OF 24.9 WSFU / 21.5 GPM, WITH MAXIMUM PRESSURE LOSS OF 5 PSI PER 100' OF PIPE RUN AND MAXIMUM VELOCITY OF 8 FPS FOR COLD WATER AND 5 FPS FOR HOT WATER. PROVIDE TYPE K COPPER FOR BELOW GRADE PIPING AND TYPE L COPPER FOR ABOVE GRADE PIPING.

PLUMBING SYMBOLS LEGEND

ABBREVIATIONS:

AFF/AFG	ABOVE FINISHED FLOOR/GRADE
BFP	BACKFLOW PREVENTER
CO	CLEANOUT
FFCO/FGCO	FLUSH FLOOR/GRADE CLEANOUT
FSEC	FOOD SERVICE EQUIPMENT CONTRACTOR
IW	INDIRECT WASTE
PC	PLUMBING CONTRACTOR
RI	ROUGH–IN
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VTR	VENT THRU ROOF
WCO	WALL CLEANOUT
(E)	EXISTING

LINETYPES:

- EXISTING PLUMBING LINE – SEE DRAWING
- COLD WATER (CW)
- COLD WATER (CW) – BELOW SLAB/GRADE
- FW — FILTERED WATER SUPPLY (FW)
- HOT WATER (HW) 140°
- HOT WATER RETURN (HWR)
- G — GAS LINE (G)
- D — CONDENSATE LINE (D)
- PLUMBING VENT (V)
- PLUMBING VENT (V) – BELOW SLAB/GRADE
- SANITARY WASTE (SAN) – BELOW SLAB/GRADE
- GW — GREASE WASTE (GW) – BELOW SLAB/GRADE

GENERAL REFERENCES/NOTATIONS:

- CONNECT TO EXISTING
- [#] PLAN NOTE DESIGNATION
- # FIXTURE/EQUIPMENT NOTE DESIGNATION
- <#> FIRE PROTECTION NOTE DESIGNATION
- FOODSERVICE EQUIPMENT DESIGNATION
- /#\ REVISION DESIGNATION
- (#) (#) HVAC EQUIPMENT DESIGNATION

PIPE SYMBOLS:

- PIPE TURNING UP/DOWN
- TEE TURNING UP/DOWN
- SHUTOFF VALVE (BALL TYPE)
- CHECK VALVE
- SOLENOID VALVE
- END CAP

SYMBOLS LEGEND NOTES:
REFER TO SPECIFICATIONS AND PLAN NOTES FOR DETAILED DESCRIPTION OF ALL DEVICES SHOWN IN THIS SCHEDULE, PROVIDED BY THIS CONTRACTOR.

GENERAL NOTES

A. CONTRACTORS AND SUB–CONTRACTORS SHALL CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS. INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENT SET AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE DOCUMENT SET.

B. COORDINATE WITH THE WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE. PROVIDE PIPE RISES, DROPS, AND OFFSETS AS REQUIRED FOR FIELD INSTALLATION AND TRADE COORDINATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING WORK.

C. DRAWINGS FOR PLUMBING WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENT. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE PIPING, CONNECTIONS, FITTINGS, VALVES, OFFSETS AND ALL MATERIALS NECESSARY FOR A COMPLETE SYSTEM.

D. ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE GOVERNING CITY AND THE AUTHORITY HAVING JURISDICTION. PURCHASE ALL PERMITS ASSOCIATED WITH THE WORK. OBTAIN ALL INSPECTIONS REQUIRED BY CODE.

E. PROVIDE WATER HAMMER ARRESTORS THROUGHOUT WATER SYSTEMS AS REQUIRED PER "WATER HAMMER ARRESTERS" DETAIL.

F. PROVIDE BACKFLOW PREVENTION DEVICES IN WATER LINES FEEDING PLUMBING FIXTURES AND/OR EQUIPMENT AS SHOWN ON PLANS AND ELSEWHERE AS REQUIRED BY AUTHORITY HAVING JURISDICTION. USE DEVICES OF APPROVED MANUFACTURER AND TYPE IN ACCORDANCE WITH REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.

G. CONTRACTOR SHALL VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. IF PRESSURE AT BUILDING ENTRY PRIOR TO ALL LOCALLY REQUIRED DEVICES IS LESS THAN 60 PSIG STATIC, CONTACT OWNER'S REPRESENTATIVE. IF PRESSURE EXCEEDS 80 PSIG, PROVIDE PRESSURE REDUCING VALVE.

H. SUSPEND HORIZONTAL SERVICE PIPING FROM UNDERSIDE OF ROOF OR FLOOR STRUCTURE UNLESS OTHERWISE INDICATED. INSTALL PIPING AS HIGH AS POSSIBLE. EXTEND PIPING DOWN IN WALLS, PARTITIONS AND CHASES TO SERVE FIXTURES AND EQUIPMENT.

I. VERIFY SERVICE CONNECTION POINTS, SIZES, ELEVATIONS AND METERING LOCATIONS FOR PROJECT WITH LOCAL UTILITY COMPANIES AND/OR CIVIL ENGINEER, AS APPLICABLE.

J. REFER TO OTHER PORTIONS OF PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION ABOUT ITEMS FURNISHED AND WORK PERFORMED BY FOOD SERVICE EQUIPMENT CONTRACTOR (FSEC). VERIFY ROUGH–IN AND CONNECTION REQUIREMENTS WITH FSEC SHOP DRAWINGS.

K. COMPLY WITH LOCAL HEALTH DEPARTMENT REGULATIONS. OMIT ESCUTCHEONS IN FOOD SERVICE AREAS. SEAL PIPES NEATLY WITH GROUT AT WALL, FLOOR, OR CEILING PENETRATIONS. OMIT INSULATION ON EXPOSED PIPING BEHIND AND UNDER EQUIPMENT. PROVIDE CLEARANCE BEHIND AND UNDER EXPOSED PIPING AS REQUIRED BY HEALTH DEPARTMENT. WHEREVER POSSIBLE, INSTALL PIPING IN FOOD SERVICE AREAS CONCEALED. CONFORM TO HEALTH DEPARTMENT REQUIREMENTS FOR LOCATIONS OF FLOOR SINKS.

L. USE OF COMBUSTIBLE MATERIALS IS NOT ALLOWED IN THE RETURN AIR PLENUM. MATERIALS USED IN THE PLENUM SHALL HAVE FLAME SPREAD RATING NOT TO EXCEED 25 AND SMOKE DEVELOPED RATING NOT TO EXCEED 50 WHEN TESTED IN ACCORDANCE WITH ASTM E84.

PLUMBING FIXTURE SCHEDULE

ID	FIXTURE TYPE	MANUF.	MODEL	CONNECTION SIZES				DESCRIPTION	ACCESSORIES/OPTIONS
				CW	HW	SAN	VENT		
WC	WATER CLOSET (ACCESSIBLE)	AMERICAN STANDARD	2467.016	½"		4"	2"	WHITE VITREOUS CHINA, ELONGATED SIPHON JET BOWL, PRESSURE ASSISTED 1.6 GPF AND RIM AT 16½" AFF.	PROVIDE WITH BEMIS 1955CT OPEN FRONT SEAT LESS COVER. PROVIDE QUARTER TURN ANGLE BALL STOP WITH METAL HANDLE. INSTALL TRIP LEVER ON WIDE SIDE OF FIXTURE.
LV	LAVATORY (ACCESSIBLE)	AMERICAN STANDARD	0355.012	½"	½"	2"	1½"	20"x18", WHITE VITREOUS CHINA, BACK OVERFLOW, FAUCET LEDGE, AND WALL HANGER.	PROVIDE WITH AMERICAN STANDARD 6114.116.002, 4" CENTER SET WITH 3" HANDLE AND 0.5 GPM AERATOR. PROVIDE GRID STRAINER DRAIN WITH TAILPIECE, CHROME PLATED CAST BRASS P–TRAP WITH CLEANOUT, WASTE ARM TO WALL WITH ESCUTCHEON AND QUARTER TURN ANGLE BALL STOPS WITH METAL HANDLE. INSULATE WATER AND WASTE PIPING UNDER LAVATORY WITH TRUEBRO "LAV GUARD2" #102E–Z. 34" AFF TO RIM. PROVIDE WITH SYMMONS 7–225–CK MIXING VALVE SET TO 105°F.
FD	FLOOR DRAIN	JR SMITH	2010–NB–P050			3"	1½"	CAST IRON DRAIN WITH NICKEL BRONZE STRAINER	PROVIDE WITH ½" TRAP PRIMER CONNECTION AND MEMBRANE FLASHING CLAMP. PROVIDE PROVENT SYSTEMS TRAP GUARD OR APPROVED EQUIVALENT. PROVIDE OUTLET WITH P–TRAP AND CLEAN AND POLISH STRAINER TOP AFTER INSTALLATION.
FS	FLOOR SINK	JR SMITH	3441–AB–12			3"	1½"	CAST IRON BODY, FLASHING CLAMP, ACID RESISTANT COATED INTERIOR AND CAST IRON GRATE, 12" SQUARE	PROVIDE WITH ½ GRATE AND ALUMINUM SEDIMENT BUCKET. PROVIDE OUTLET WITH P–TRAP.
GT	GREASE INTERCEPTOR	SCHIER	GB–75			4"	2"	75 GPM POLYETHYLENE GREASE INTERCEPTOR, 861.8 LBS GREASE CAPACITY, 125 GAL LIQUID CAPACITY	INSTALL IN ACCESSIBLE EXTERIOR LOCATION BELOW GRADE. INSTALL SCHIER MODEL–SV–10 SAMPLING PORT DOWNSTREAM AND CLOSE TO GB–75. FOLLOW SCHIER SPECIFICATION FOR INSTALLATION INSTRUCTIONS.
MS	MOP SINK	FIAT	MSB–2424			3"	1½"	ONE–PIECE MOLDED STONE CONSTRUCTION WITH 3" STAINLESS STEEL DRAIN.	SUPPLY WITH #MSG–2424 STAINLESS STEEL WALL GUARD ON TWO SIDE, #E–88–AA STAINLESS STEEL BUMPER GUARD ON TWO SIDE. #830–AA SERVICE FAUCET, ASSE 1052 APPROVED VACUUM BREAKER, AND #832–AA 30" HOSE AND HOSE BRACKET.

PLUMBING EQUIPMENT SCHEDULE

ID	FIXTURE TYPE	MANUF.	MODEL	ELECTRICAL			DESCRIPTION	ACCESSORIES/OPTIONS
				VOLT	PH	WATT		
GWH	GAS WATER HEATER	AO SMITH	BTH–150	120	1	240	100 GALLON STORAGE, 178 GPH RECOVERY @ 100°F, 150,000 BTUH INPUT	PROVIDE WITH T&P RELIEF VALVE. PROVIDE WITH AMTROL ST–5–C EXPANSION TANK. INSTALL PER DETAILS AND MANUFACTURER'S RECOMMENDATIONS.
RP	RECIRC PUMP	GRUNDFOS	UP 15–18 BUC5	120	1	90	2 GPM AT 1.43 FT HEAD	INSTALL NEAR WATER HEATER PER MANUFACTURER'S RECOMMENDATIONS.

KITCHEN EQUIPMENT SCHEDULE

ITEM#	DESCRIPTION	WATER		WASTE		VENT	NOTES	BFP
		HOT	COLD	IND	DIR			
1	COMBI ELECTRIC OVEN		½"	1"			NOTE 2, 119 CFH	WATTS LF7
6	GAS FLOOR FRYER						90 CFH	–
14	BEVERAGE DISPENSER			1"			NOTE 2	WATTS SD–3
15	TEA BREWER						NOTE 2	WATTS LF7
20	WALL MOUNTED HAND SINK	½"	½"		1½"	1½"	NOTE 1	–
21	ONE (1) COMPARTMENT SINK	¾"	¾"	2"				–
25	THREE (3) COMPARTMENT SINK	¾"	¾"	2"			NOTE 3	–
28	BAG–N–BOX SODA SYSTEM							WATTS SD–3
53	COLD WELL UNIT, DROP–IN, REFRIGERATED			1"				–
55	HOT WELL UNIT, DROP–IN, ELECTRIC			1"				–
73	NUGGET ICE MAKER			1"			NOTE 2	WATTS LF7
74	FILTRATION SYSTEM		½"					WATTS LF7
B02	HAND SINK	½"	½"		1½"	1½"		–
B03	ICE BIN			1"			NOTE 1	–
B04	GLASS RACK			1"				–
B25	DRAFT BEER COOLER			1"				–

NOTES:
1. PROVIDE WITH SYMMONS 725–CK MXING VALVE OR APPROVED EQUIVALENT SET TO 105°F.
2. PROVIDE FILTERED WATER LINE.
3. CONNECT TO FOOD SERVICE EQUIPMENT PER "3 COMPARTMENT SINK" DETAIL.

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DICKEY'S BARBECUE PIT est. 1941

MI-2197

DATE	DESCRIPTION
07/13/22	ISSUED FOR PERMIT

DATE	DESCRIPTION

SHEET TITLE
PLUMBING NOTES, SCHEDULES, AND SPECIFICATIONS

SHEET NUMBER:
P0.0

JLLA PROJECT NUMBER:
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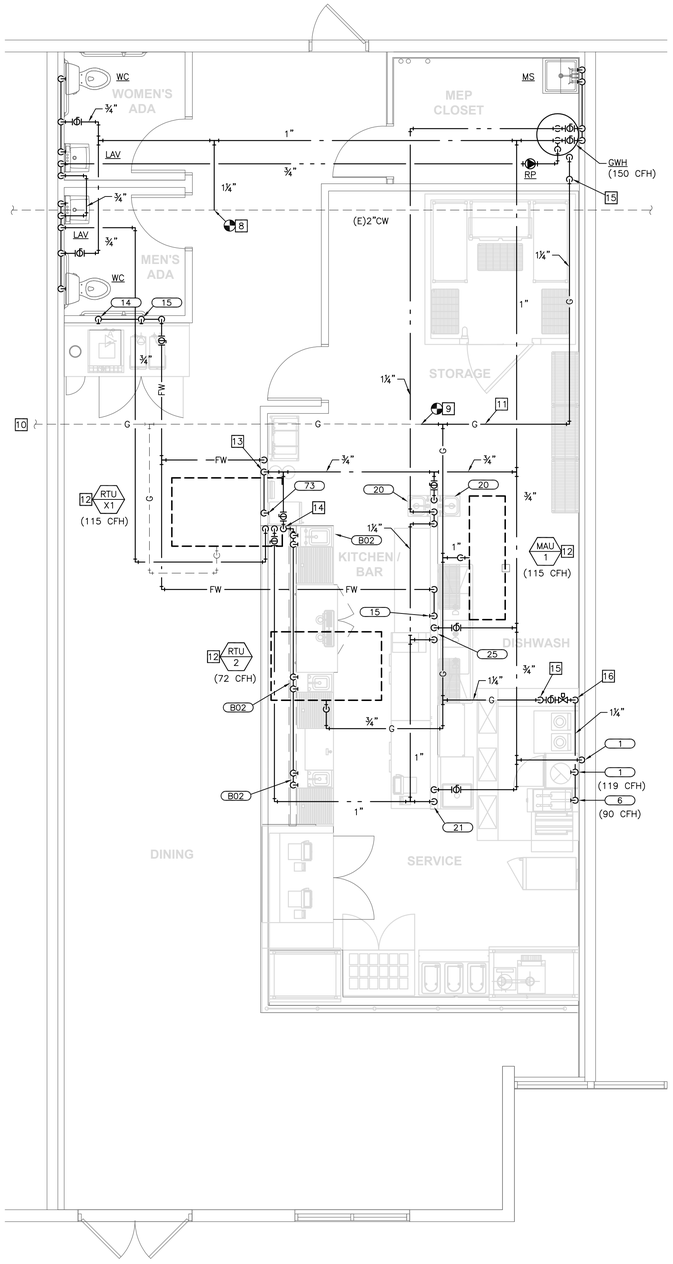
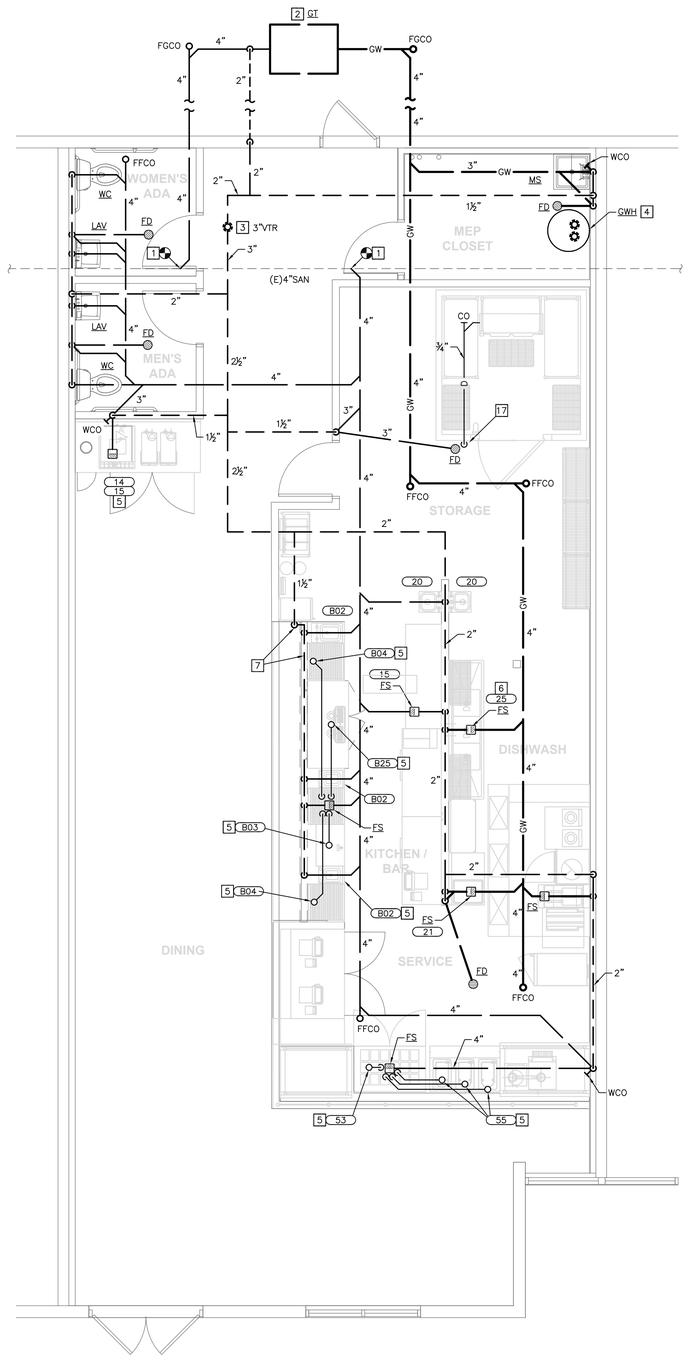


02 PLUMBING PLAN - WATER AND GAS

1/4" = 1'-0"



01 PLUMBING PLAN - WASTE AND VENT

1/4" = 1'-0"

PLUMBING KEY NOTES

1. CONNECT TO EXISTING 4" SANITARY PIPING IN THIS AREA. FIELD VERIFY EXACT LOCATION AND PROVIDE CONNECTIONS AS REQUIRED.
2. PROVIDE GB-75 BELOW GRADE GRAVITY GREASE INTERCEPTOR AS SCHEDULED. REFER TO "GREASE INTERCEPTOR" DETAIL.
3. PROVIDE SANITARY VENT THROUGH ROOF PER "VENT THRU ROOF" DETAIL. LOCATE MINIMUM 10'-0" FROM AIR INTAKES ON ROOF.
4. ROUTE 3" INTAKE AND EXHAUST PIPES UP TO TERMINATE THROUGH ROOF WITH CONCENTRIC VENT. ROUTE PIPING WITH MINIMUM NUMBER OF ELBOWS PER MANUFACTURER INSTRUCTIONS. LOCATE MINIMUM 10'-0" FROM AIR INTAKES.
5. ROUTE KITCHEN EQUIPMENT DISCHARGE TO FLOOR SINK PER "INDIRECT DRAIN" DETAIL.
6. ROUTE THREE COMPARTMENT SINK DRAIN TO FLOOR SINK PER "3-COMPARTMENT SINK" DETAIL.
7. ROUTE SANITARY VENT PIPING TIGHT TO BOTTOM OF BAR MILLWORK TO MAXIMIZE STORAGE SPACE. ROUTE UP IN WALL AS SHOWN. VENT PIPING SHALL RISE TO 6" ABOVE FLOOD LEVEL RIM OF VENTED FIXTURES PRIOR TO HORIZONTAL RUN.
8. CONNECT NEW DOMESTIC COLD WATER TO EXISTING 2" COLD WATER SUPPLY IN THIS AREA. COORDINATE EXACT LOCATION OF CONNECTION WITH LANDLORD AND PROVIDE CONNECTIONS AS REQUIRED.
9. CONNECT TO EXISTING GAS PIPING ON ROOF. FIELD VERIFY EXACT LOCATION OF CONNECTION AND PROVIDE CONNECTIONS AS REQUIRED.
10. EXISTING GAS PIPING ON ROOF TO GAS METER APPROXIMATELY 50'-0" SOUTHEAST OF THIS LOCATION. COORDINATE WITH LOCAL GAS SUPPLIER TO PROVIDE NEW METER AND REGULATOR AS REQUIRED. SYSTEM SIZED FOR 250' TOTAL DEVELOPED LENGHT AND 7" W.C.
11. ROUTE GAS PIPING ON ROOF PER "ROOF GAS PIPE SUPPORT" DETAIL.
12. CONNECT TO MECHANICAL EQUIPMENT PER "ROOFTOP UNIT CONNECTIONS" DETAIL AND "MAKEUP AIR UNIT CONNECTIONS" DETAIL.
13. ROUTE DOMESTIC COLD WATER PIPING DOWN IN WALL TO WATER FILTER AND PROVIDE FILTERED WATER CONNECTION TO KITCHEN EQUIPMENT PER KITCHEN EQUIPMENT SCHEDULE.
14. ROUTE HOT, COLD, AND FILTERED WATER PIPING DOWN IN WALL TO BELOW BAR MILLWORK. ROUTE PIPING CONCEALED TIGHT TO REAR OF MILLWORK TO MAXIMIZE STORAGE SPACE. SHOWN OFFSET FOR CLARITY.
15. ROUTE GAS PIPING DOWN THROUGH ROOF PER "ROOF PENETRATION."
16. ROUTE GAS LINE TO KITCHEN EQUIPMENT PER "COOKING APPLIANCE GAS" DETAIL.
17. ROUTE CONDENSATE DRAIN TO DISCHARGE INTO WASTE RECEPTACLE PER "WALK IN COOLER/FREEZER DRAIN" DETAIL.

GAS SCHEDULE

EQUIPMENT TAG	INPUT CFH
GWH – GAS WATER HEATER	150
1	119
6	90
RTU-X1	115
RTU-2	72
MAU-1	115
	661

SIZING DATA

GAS: NATURAL GAS

PIPING: SCH 40 STEEL W/ GALVANIZED FITTINGS

CODE: 2019 CFGC, TABLE 1215.2(1)

PRESSURE: 7" W.C. SUPPLY WITH 0.5" W.C. DROP

DEVELOPED LENGTH: 250 FEET

PIPE SIZING	
63 CFH	¾"
119 CFH	1"
244 CFH	1¼"
366 CFH	1½"
704 CFH	2"
1,120 CFH	2½"
1,980 CFH	3"

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DICKEY'S BARBECUE PIT est. 1941

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PLUMBING PLANS

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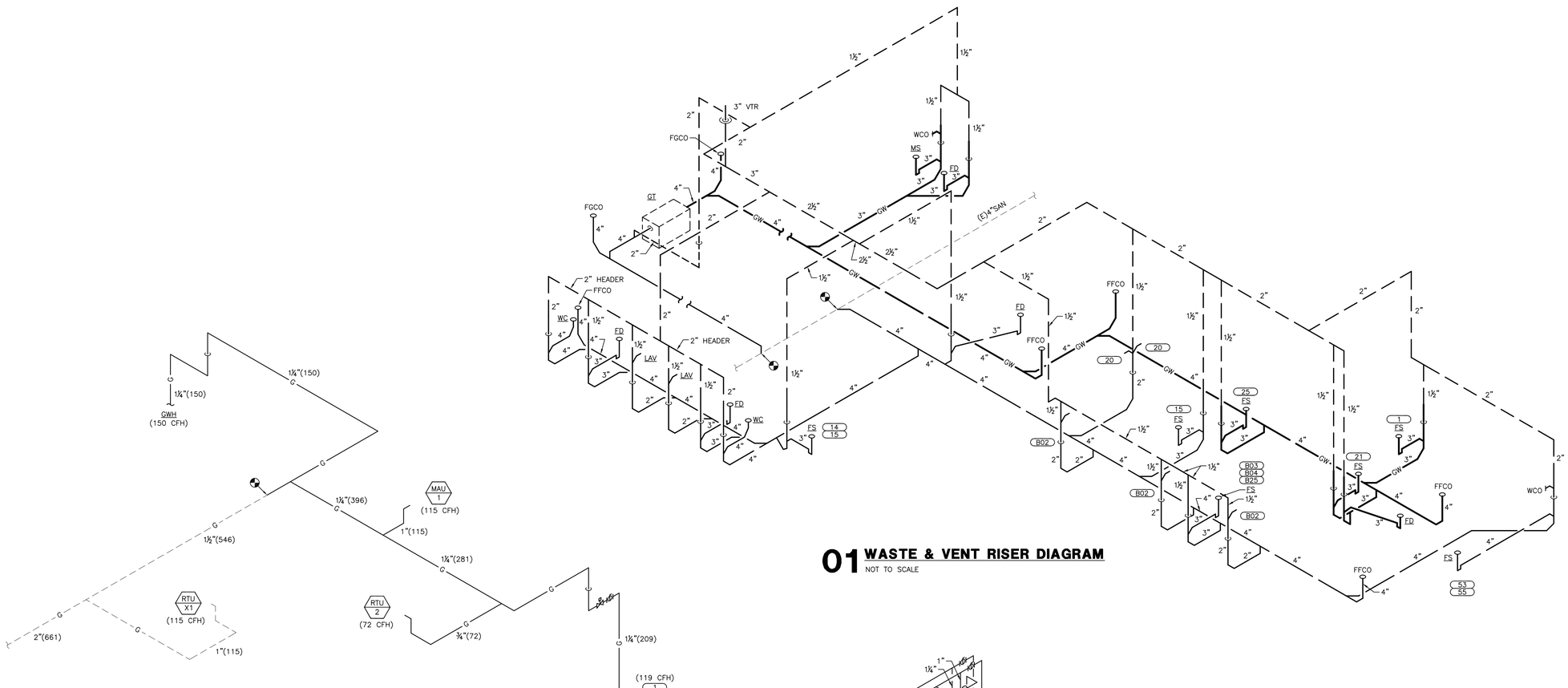

01 WASTE & VENT RISER DIAGRAM
NOT TO SCALE

03 GAS RISER DIAGRAM
NOT TO SCALE

02 DOMESTIC WATER RISER DIAGRAM
NOT TO SCALE

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SHEET TITLE
PLUMBING RISER DIAGRAMS

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P2.0

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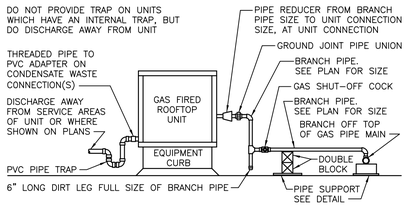
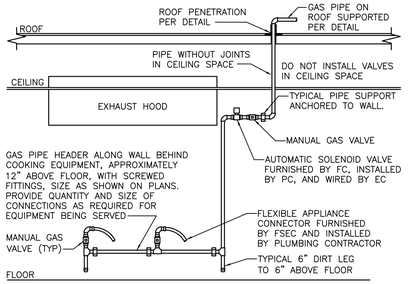


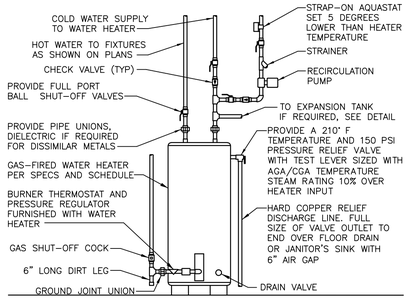
PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST AS REQUIRED.

18 ROOFTOP UNIT CONNECTIONS
NOT TO SCALE



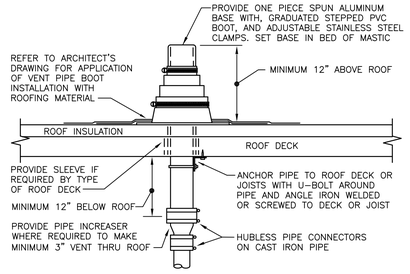
ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT ACTUAL CONDITIONS. ATTACH RISER AND HEADER TO WALL WITH 1" CLEARANCE BEHIND PIPE. MAKE FINAL CONNECTION TO EQUIPMENT AS RECOMMENDED BY MANUFACTURER. PROVIDE WELDED FITTINGS/JOINTS IN ANY CONCEALED, UNSLEEVED LOCATION

15 COOKING APPLIANCE GAS PIPE
NOT TO SCALE



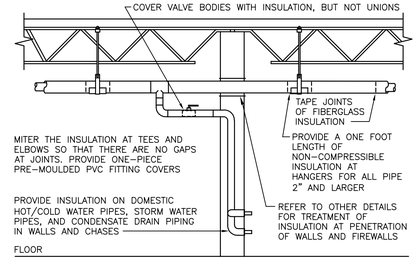
REFER TO SPECIFICATIONS AND PLUMBING FIXTURE SCHEDULE. PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. REFER TO FLOOR PLAN FOR PIPE SIZES. SET WATER HEATER THERMOSTAT AT 120 DEGREES FAHRENHEIT. PROVIDE SEISMIC STRAP OR BRACING AND FLEXIBLE CONNECTORS TO WATER AND GAS CONNECTIONS IF/AS REQUIRED BY LOCAL AUTHORITIES.

11 GAS WATER HEATER WITH PUMP
NOT TO SCALE



REFER TO PLANS FOR VTR PIPE SIZES AND LOCATIONS. LOCATE VTR A MINIMUM OF 20 FEET HORIZONTAL (UNLESS APPROVED BY ENGINEER PRIOR TO INSTALLATION) OR THREE FEET VERTICAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE, AND ONE FOOT FROM ANY VERTICAL SURFACE. PROVIDE 1" FIBERGLASS INSULATION WITH ALL-SERVICE JACKET ON VENT PIPE INSIDE BUILDING WITHIN SIX FEET OF VENT THRU ROOF LOCATION. VERIFY FLASHING AND COUNTERFLASHING WITH ROOFING CONTRACTOR.

07 VENT THRU ROOF (VTR)
NOT TO SCALE

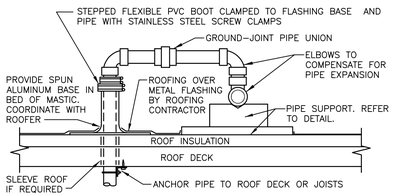


PROVIDE FIBERGLASS INSULATION WITH ALL-SERVICE JACKET WITH VAPOR BARRIER ON ALL COLD/HOT WATER PIPING AND CONDENSATE DRAIN PIPE. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION REGARDING INSULATION. INSTALL ALL ITEMS PER SPECIFICATIONS AND MANUFACTURERS INSTRUCTIONS. MAINTAIN VAPOR BARRIER ON COLD PIPING BY MEANS OF SEALANT AND TAPE. FLAME-SPREAD AND SMOKE-DEVELOPED INDEXES SHALL NOT EXCEED 25/50. SEAL EXPOSED ENDS OF FIBERGLASS INSULATION WITH ADHESIVE MASTIC.

03 PIPE INSULATION
NOT TO SCALE

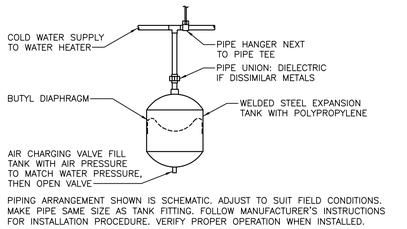
PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST AS REQUIRED.

17 MAKE-UP AIR UNIT CONNECTION
NOT TO SCALE



REFER TO PLANS FOR PIPE SIZE(S) AND LOCATION(S). USE WELDED OR SCREWED FITTINGS AS SPECIFIED FOR PIPE SIZE. LOCATE PENETRATION MINIMUM 18" FROM ADJACENT WALLS.

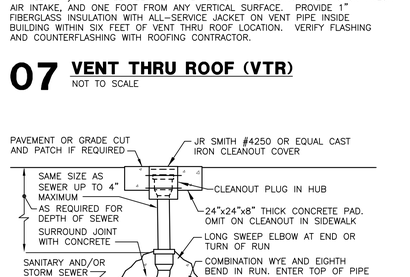
14 ROOF PENETRATION
NOT TO SCALE



PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. MAKE PIPE SAME SIZE AS TANK FITTING. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION PROCEDURE. VERIFY PROPER OPERATION WHEN INSTALLED.

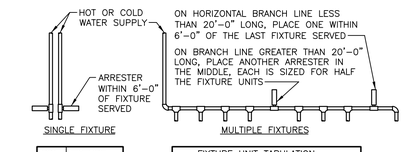
EXPANSION TANK INSTALLATION SHALL OCCUR ONLY WHEN THERE IS A BACKFLOW PREVENTION DEVICE INSTALLED WITHIN THE TENANT SPACE WATER SYSTEM OR BUILDING WATER SYSTEM.

10 SMALL EXPANSION TANK
NOT TO SCALE



LOCATE EXTERIOR CLEANOUTS AT ENDS OF RUNS, AT TURNS OF PIPE GREATER THAN 45 DEGREES, AT MAXIMUM 100' INTERVALS ON STRAIGHT RUNS, AND WHERE SHOWN ON PLANS. VERIFY SOIL/ROCK CONDITIONS WITH GEOTECHNICAL REPORT OR SITE EXAMINATION. USE SCHEDULE-40 POLYVINYL CHLORIDE (PVC) PIPE AND FITTINGS WITH SOLVENT WELD JOINTS. BACKFILL WITH CRUSHED ROCK TO COVER PIPE MINIMUM 6". PROVIDE EARTH BACKFILL AND COMPACTION PER ARCHITECTURAL SPECS. REPAIR ANY SOD AND/OR PAVEMENT TO MATCH EXISTING.

06 EXTERIOR CLEANOUT
NOT TO SCALE

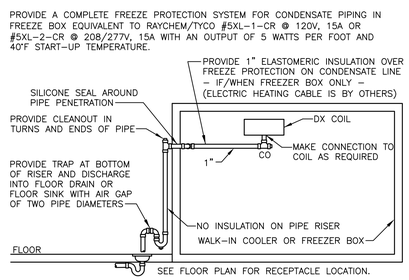


PDI SIZE	FIXTURE UNIT LOAD
AA	1–3
A	4–11
B	12–32
C	33–60
D	61–113
E	114–154
F	155–330

FIXTURE UNIT TABULATION		
FIXTURE	COLD	HOT
VALVE WATER CLOSET	10	–
TANK WATER CLOSET	5	–
URINAL	5	–
LAVATORY	1.5	1.5
SINK	2	2
MOP BASIN	3	3
SHOWER/BATHTUB	2	3
DRINKING FOUNTAIN	0.5	–

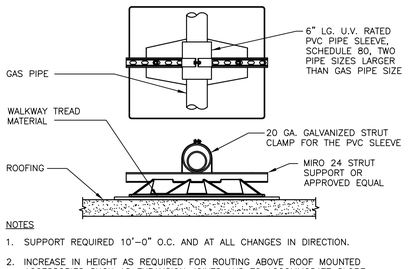
PC TO PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE #1010 OR ANSI #A112.26.1M CERTIFICATION. SIZE AND INSTALL PER PDI #WH-201 STANDARD OR MANUFACTURER'S INSTRUCTION. THE TABLES ABOVE ARE BASED ON THE SIOUX CHIEF PRODUCT LINE. IF PRESSURE IS IN EXCESS OF 65 PSIG THEN UPSIZE THE ARRESTER BY ONE (EXAMPLE: AN 'A' ARRESTER WOULD BECOME A 'B' ARRESTER.)

02 WATER HAMMER ARRESTERS
NOT TO SCALE

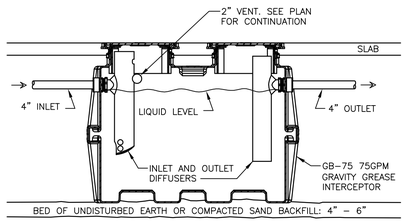


INSTALL PIPE HIGH AS POSSIBLE, ANCHORED TO WALL OF BOX WITH SUPPORTS AT MAXIMUM 6'-0" CENTERS. USE TYPE "M" HARD COPPER TUBE AND FITTINGS WITH LEAD-FREE SOLDER JOINTS. SLOPE HORIZONTAL PIPE AT MINIMUM 2%. REFER TO LOCAL CODE FOR INDIRECT DRAIN REQUIREMENTS.

16 WALK-IN COOLER/FREEZER DRAIN
NOT TO SCALE

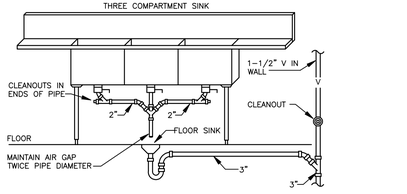


13 ROOF GAS PIPE SUPPORT
NOT TO SCALE



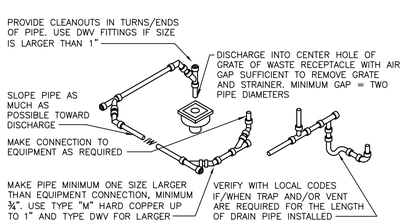
DETAIL SHOWS GENERAL SCHEMATIC REQUIREMENTS. CONTRACTOR SHALL SUBMIT PROPOSED GREASE INTERCEPTOR INSTALLATION PLANS AND SPECIFICATIONS TO LOCAL AUTHORITIES FOR THEIR APPROVAL BEFORE ACQUISITION OF INTERCEPTOR.

12 GREASE INTERCEPTOR
NOT TO SCALE



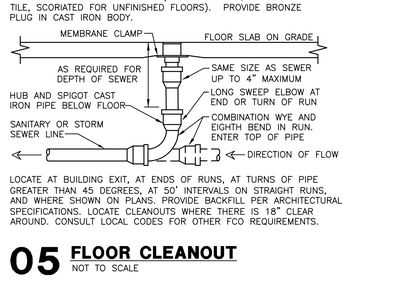
ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS AND TO MEET APPLICABLE CODE REQUIREMENTS. UTILIZE HUBLESS CAST IRON PIPE, FITTINGS AND CONNECTORS FOR SINK CONNECTIONS.

09 3 COMPARTMENT SINK
NOT TO SCALE



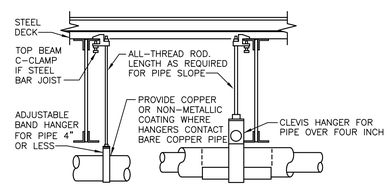
ROUTE PIPE INCONSPICUOUSLY AND UNOBTRUSIVELY. HANG PIPE AS REQUIRED. DO NOT INSULATE INDIRECT DRAIN PIPE WHEN INSTALLED EXPOSED IN FOOD SERVICE FACILITY. REFER TO LOCAL CODES FOR FURTHER INFORMATION.

08 INDIRECT DRAIN
NOT TO SCALE



TRAP PRIMER MAY BE LOCATED ABOVE CEILING WHERE ACCESSIBLE.

04 TRAP PRIMER
NOT TO SCALE



DO NOT HANG PIPE LARGER THAN 3" FROM BOTTOM OF JOISTS.

PROVIDE GALVANIZED STEEL SADDLE FOR ALL INSULATED PIPE LARGER THAN 3/4". VERIFY INSULATION THICKNESS WHEN SIZING HANGERS.

PROVIDE UPPER ATTACHMENT AS REQUIRED FOR CASES NOT SHOWN HERE. DO NOT INSTALL HANGER INSIDE INSULATION OR OTHERWISE PENETRATE VAPOR BARRIER. DO NOT HANG ONE PIPE FROM ANOTHER EXCEPT IN CHASES. TRAPEZE HANGERS MAY BE USED FOR MULTIPLE PARALLEL PIPES. HANGER SPACING FOR PIPE SIZE: COPPER: 4"=12'-0"; 3"=11'-0"; 2½"=10'-0"; 2"=9'-0"; 1½"=8'-0"; 1¼"=7'-0"; 1" & ¾"=6'-0"; ½"=5'-0". CAST IRON: 10'-0" AND ONE NEAR ALL JOINTS. STEEL: 4"=14'-0"; 3"=12'-0"; 2½"=11'-0"; 2"=10'-0"; 1½"=9'-0"; 1"=7'-0"; ¾"=6'-0"; ½"=5'-0". LOCATE HANGERS AS CLOSE AS POSSIBLE TO TURNS AND TEES OF PIPE. PROVIDE SUPPLEMENTARY STEEL STRUTS BETWEEN JOISTS IF REQUIRED. LOCATE HANGERS TO TAKE LOAD OFF OF EQUIPMENT CONNECTIONS. ANCHOR WATER PIPE AGAINST SWAYING DUE TO CHANGES IN WATER VELOCITY. PROVIDE SEISMIC BRACING IF/AS REQUIRED BY LOCAL AUTHORITIES. CHAINS OR PERFORATED STRAP IRON OR STEEL IS NOT ACCEPTABLE. REFER TO CODES FOR FURTHER INFORMATION.

01 PIPE HANGERS
NOT TO SCALE

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MI-2197

DATE	DESCRIPTION
07/13/22	ISSUED FOR PERMIT

DATE	DESCRIPTION

SHEET TITLE
PLUMBING DETAILS

SHEET NUMBER:
P3.0

JLLA PROJECT NUMBER:
DBQ-103

07/13/2022 - ISSUED FOR PERMIT

GENERAL ELECTRICAL NOTES

A. INCLUDE ALLOWANCE FOR UNFORESEEN CONDITIONS THAT MAY AFFECT THE SCOPE OF WORK. MINOR DEVIATIONS REQUIRED FOR ACCOMPLISHING THE INTENT OF THIS DESIGN SHALL BE INCLUDED IN THE ALLOWANCE.

B. DISCONNECT SWITCHES AND CONTACTORS SHALL BE "LISTED" AND "IDENTIFIED" AS RATED FOR MINIMUM OF 75°C CONDUCTOR TERMINATION.

C. ELECTRICAL DESIGN IS BASED ON INSTALLATION OF 75°C CONDUCTORS CONNECTED TO TERMINAL LUGS AND EQUIPMENT U.L. LISTED FOR MINIMUM 75°C. CONDUCTORS TERMINATED ON EQUIPMENT WITH LOWER RATING (60°C) OR NO RATING SHOWN SHALL HAVE CONDUCTOR SIZE INCREASED TO CONFORM TO ADOPTED ELECTRICAL CODE AND UL/CUL NO. 489 REQUIREMENTS.

D. CONDUIT INSTALLED INDOORS SHALL BE ELECTRICAL METALLIC TUBING (EMT), MINIMUM 3/4" OR AS NOTED.

E. CONDUCTORS SHALL BE MINIMUM #12 THHN/THWN COPPER UNLESS NOTED OTHERWISE ON PLANS OR IN SPECIFICATIONS. BRANCH CIRCUITS SHALL BE PROVIDED WITH (2) #12 CONDUCTORS AND (1) #12 EQUIPMENT GROUND CONDUCTOR UNLESS NOTED OTHERWISE.

F. CONTROL VOLTAGE WIRING SHALL BE PLENUM RATED OR INSTALLED IN CONDUIT.

G. THERMOSTATS, TEMPERATURE SENSORS, CARBON DIOXIDE SENSORS AND HUMIDISTATS: UNLESS NOTED OTHERWISE, PROVIDE WALL BOX AT +3'–10" AFF WITH 3/4" CONDUIT STUBBED OUT TO ABOVE ACCESSIBLE CEILING WITH NYLON BUSHINGS AND PULLSTRING.

H. PROVIDE FLEXIBLE CONNECTIONS ONLY FOR FINAL CONNECTION TO EQUIPMENT, 6'–0" MAXIMUM LENGTH. PROVIDE LIQUID TIGHT FLEXIBLE CONNECTION AT EXTERIOR LOCATIONS AND WHERE EXPOSURE TO MOISTURE IS POSSIBLE.

I. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH A PULL WIRE.

J. ALL RACEWAYS SHALL CONTAIN A GROUNDING ELECTRODE SIZED PER THE ADOPTED ELECTRICAL CODE.

K. COORDINATE WORK ABOVE THE CEILING WITH OTHER TRADES TO PROVIDE THE GREATEST POSSIBLE CLEARANCE. CONDUIT RUNS SHALL BE RUN THROUGH TRUSSES WHERE POSSIBLE.

L. VERIFY EXACT PLACEMENT OF ALL DEVICES SHOWN ON CONSTRUCTION DOCUMENTS PRIOR TO FINAL PLACEMENT.

M. LIGHT SWITCHES, ELECTRICAL OUTLETS, THERMOSTATS AND OTHER ENVIRONMENTAL CONTROLS SHALL HAVE OPERABLE PARTS OF THE CONTROLS LOCATED NO HIGHER THAN 48" AND NO LOWER THAN 15" ABOVE THE FLOOR. IF THE REACH IS OVER AN OBSTRUCTION BETWEEN 20" AND 25" IN DEPTH, THE MAXIMUM HEIGHT IS REDUCED TO 44" FOR FORWARD APPROACH OR 46" FOR SIDE APPROACH, PROVIDED THE OBSTRUCTION IS NO MORE THAN 24" IN DEPTH. OBSTRUCTIONS SHALL NOT EXTEND MORE THAN 25" FROM THE WALL BENEATH A CONTROL

N. TERMS:

SHALL – ACTION THAT IS REQUIRED WITHOUT OPTION OR QUALIFICATION.

FURNISH – CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING.

INSTALL – CONTRACTOR SHALL BE RESPONSIBLE FOR LABOR AND CONSTRUCTION EQUIPMENT NECESSARY TO SET IN PLACE, CONNECT, CALIBRATE AND/OR TEST EQUIPMENT FURNISHED BY HIM OR OTHERS.

PROVIDE – CONTRACTOR SHALL FURNISH AND INSTALL.

REUSE OF ELECTRICAL EQUIPMENT

A. IF CHOOSING TO REUSE EXISTING PANELBOARDS, DISCONNECT SWITCHES OR OVERCURRENT PROTECTION DEVICES, EQUIPMENT SHALL BE CERTIFIED BY A 3RD PARTY, INTERNATIONAL ELECTRICAL TESTING AGENCY (NETA) ACCREDITED FIRM OR INDIVIDUAL. TESTING SHALL MEET NETA REQUIREMENT AS WELL AS ORIGINAL EQUIPMENT MANUFACTURER'S TOLERANCES. FINAL REPORT SHALL BE SENT TO THE ENGINEER AND OWNER INDICATING RECOMMENDATIONS FOR EXISTING EQUIPMENT.

COMMUNICATIONS GENERAL NOTES

A. TELEPHONE, DATA AND CATV CABLING SHALL BE PROVIDED BY OTHERS.

B. PROVIDED NYLON BUSHINGS ON ALL CONDUITS.

LIGHTING GENERAL NOTES

A. CONNECT EXIT SIGNS, EMERGENCY AND NIGHT LIGHTS TO UNSWITCHED LIGHTING CIRCUIT, NOT CONTROLLED BY OCCUPANCY SENSORS, SWITCHES OR CONTACTORS.

B. PROVIDE DEDICATED NEUTRAL WITH ALL DIMMING SYSTEM CIRCUITS. NO COMMON NEUTRALS SHALL BE ALLOWED.

C. REFER TO "RECESSED LIGHTING FIXTURE SUPPORT DETAIL" FOR INFORMATION ON SUPPORT OF ALL RECESSED LIGHT FIXTURES.

D. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND DETAILS FOR LOCATION OF ALL LIGHTING FIXTURES AND ALL OTHER EQUIPMENT INSTALLED IN THE CEILING SYSTEM. VERIFY MOUNTING HEIGHTS AND FINISHES WITH ARCHITECT PRIOR TO ROUGH–IN.

E. REFER TO POWER PLANS FOR LOCATIONS OF ELECTRICAL EQUIPMENT.

F. PROVIDE (2) ADDITIONAL #12 CONDUCTORS FOR ALL 0–10V DIMMING CIRCUITS.

POWER GENERAL NOTES

A. VERIFY EXACT LOCATIONS OF HVAC AND PLUMBING EQUIPMENT, CONDUIT STUB–UPS AND POWER CONNECTIONS PRIOR TO ROUGH–IN.

B. VERIFY EXACT LOCATION, MOUNTING HEIGHTS AND CONDUIT ROUTING FOR ALL THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS AND CO_2 SENSORS PRIOR TO ROUGH–IN.

C. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR ADDITIONAL ELECTRICAL REQUIREMENTS. COORDINATE PROVISIONS FOR CONTROL CONDUIT AND WIRING AS REQUIRED FOR INTERLOCKING OF FANS, MOTORS, ETC. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

D. MOUNT DEVICES INSTALLED ON EQUIPMENT ON NON–REMOVABLE PANEL. COORDINATE LOCATION PRIOR TO COMMENCING ROUGH–IN WORK.

ELECTRICAL SYMBOLS LEGEND

5 3 1	HOME RUN TO PANEL. CIRCUIT NUMBERS, PHASE, NEUTRAL AND GROUND CONDUCTORS INDICATED ALONG WITH ISOLATED GROUND CONDUCTOR IF APPLICABLE.
1	PARTIAL CIRCUIT
	CONDUIT INSTALLED CONCEALED ABOVE CEILING OR IN WALL
— — —	CONDUIT INSTALLED CONCEALED BELOW FLOOR SLAB OR UNDERGROUND
----DC----	CONDUIT INSTALLED WITH DIRECT CURRENT POWER WIRING
	CONDUIT TURNED UP OR DOWN AS NOTED
	FLEXIBLE CONDUIT FOR FINAL CONNECTION TO EQUIPMENT
$	SINGLE POLE SWITCH, +3'–10" OR AS NOTED
$3	THREE–WAY SWITCH, +3'–10" OR AS NOTED
$WP	WEATHERPROOF TOGGLE SWITCH, +3'–10" OR AS NOTED
$K	KEYED SWITCH, +3'–10" OR AS NOTED
OS	WALL MOUNTED OCCUPANCY SENSOR, +3'–10" OR AS NOTED
OS	CEILING MOUNTED OCCUPANCY SENSOR
VS	WALL MOUNTED VACANCY SENSOR, +3'–10" OR AS NOTED
VS	CEILING MOUNTED VACANCY SENSOR
PS	CEILING MOUNTED INTERIOR DAYLIGHT HARVESTING PHOTOCELL SENSOR
PP	POWER PACK, INSTALLED ABOVE ACCESSIBLE CEILING
	SIMPLEX RECEPTACLE, +18" OR AS NOTED
IG	ISOLATED GROUND SIMPLEX RECEPTACLE, +18" OR AS NOTED
	DUPLEX RECEPTACLE, +18" OR AS NOTED
	ISOLATED GROUND DUPLEX RECEPTACLE, +18" OR AS NOTED
	CONTROLLED DUPLEX RECEPTACLE, +18" OR AS NOTED
	QUADRUPLEX RECEPTACLE, +18" OR AS NOTED
	ISOLATED GROUND QUADRUPLEX RECEPTACLE, +18" OR AS NOTED
	QUADRUPLEX RECEPTACLE WITH ONE OUTLET CONTROLLED, +18" OR AS NOTED
G G G	GROUND FAULT INTERRUPTING RECEPTACLE, +18" OR AS NOTED
TR TR TR	TAMPER RESISTANT RECEPTACLE, +18" OR AS NOTED
WP WP WP	WEATHERPROOF GROUND FAULT INTERRUPTING RECEPTACLE, +18" OR AS NOTED
	RECEPTACLE INSTALLED HORIZONTALLY, BOTTOM AT +6" ABOVE COUNTER TOP
	RECEPTACLE INSTALLED FLUSH IN CEILING
	ISOLATED GROUND RECEPTACLE INSTALLED FLUSH IN CEILING
	SPECIAL RECEPTACLE, NEMA STYLE AS NOTED, +18" OR AS NOTED
J	JUNCTION BOX
	DISCONNECT SWITCH, TOP AT +6'–0" OR AS NOTED
	DISCONNECT SWITCH PROVIDED WITH EQUIPMENT.
	COMBINATION MOTOR STARTER/DISCONNECT SWITCH FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR
	MOTOR CONNECTION
C	LIGHTING CONTACTOR, INSTALLED AS NOTED
T	TIME CLOCK, +6'–2" OR AS NOTED
R	CONTROL OR POWER RELAY, INSTALLED AS NOTED
	PUSHBUTTON, TOP AT +4'–6" OR AS NOTED
CH	DOOR BELL CHIME, +8'–0" OR AS NOTED
TR	CONTROL TRANSFORMER, INSTALLED AS NOTED
T TS W H	THERMOSTAT, TEMPERATURE SENSOR, CARBON DIOXIDE SENSOR AND HUMIDISTAT PROVIDED BY MECHANICAL CONTRACTOR, +3'–10" OR AS NOTED
EOD	ELECTRICALLY OPERATED DAMPER, PROVIDED BY MECHANICAL CONTRACTOR
	TELEPHONE OUTLET, +18" WITH 1/2" CONDUIT TO ABOVE CEILING
	TELEPHONE OUTLET, +6" ABOVE COUNTER WITH 1/2" CONDUIT TO ABOVE CEILING
	DATA OUTLET, +18" WITH 3/4" CONDUIT TO ABOVE CEILING
	DATA OUTLET, +6" ABOVE COUNTER WITH 3/4" CONDUIT TO ABOVE CEILING
	TELEPHONE/DATA OUTLET, +18" WITH 1" CONDUIT TO ABOVE CEILING
	TELEPHONE/DATA OUTLET, +6" ABOVE COUNTER WITH 1" CONDUIT TO ABOVE CEILING
AFF/AFG	ABOVE FINISHED FLOOR/GRADE
AHJ	AUTHORITY HAVING JURISDICTION
BAS	BUILDING AUTOMATION SYSTEM
EC	ELECTRICAL CONTRACTOR
FA	FIRE ALARM
GC	GENERAL CONTRACTOR
MC	MECHANICAL CONTRACTOR
NL	NIGHT LIGHT
NF	NON–FUSED
PC	PLUMBING CONTRACTOR
TYP	TYPICAL
WP	WEATHERPROOF

SYMBOLS LEGEND NOTES:
MOUNTING HEIGHTS INDICATED ARE MEASURED FROM FINISHED FLOOR TO THE CENTERLINE OF THE DEVICE UNLESS NOTED OTHERWISE.

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MI-2197

DATE	DESCRIPTION
07/13/22	ISSUED FOR PERMIT

	DATE	DESCRIPTION
1		

SHEET TITLE
ELECTRICAL LEGEND AND NOTES

SHEET NUMBER:
E0.0

JLLA PROJECT NUMBER:
DBQ-103

07/13/2022 - ISSUED FOR PERMIT

SECTION 16000 – BASIC ELECTRICAL

1. THE WORK COVERED BY DIVISION 16 CONSISTS OF FURNISHING ALL LABOR, EQUIPMENT, SUPPLIES, AND MATERIALS (EXCEPT AS OTHERWISE SPECIFIED OR SHOWN ON THE DRAWINGS) REQUIRED TO PERFORM ALL OPERATIONS NECESSARY FOR THE INSTALLATION OF COMPLETE ELECTRICAL SYSTEMS. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE SPECIFICATIONS AND DRAWINGS.

2. COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS TO PREVENT CONFLICTS CAUSING UNNECESSARY EXPENSE OR DELAYS IN THE INSTALLATION OF WORK. WHEN CONFLICTS ARISE, REMOVE AND RELOCATE ITEMS CAUSING SUCH CONFLICTS AT NO ADDITIONAL COST TO THE OWNER. REFER TO OTHER DISCIPLINE'S DRAWINGS, RELEVANT EQUIPMENT DRAWINGS, AND SHOP DRAWINGS TO DETERMINE AVAILABLE CLEARANCES AND POSSIBLE OBSTRUCTIONS. MAKE ANY NECESSARY OFFSETS OR TRANSITIONS AS REQUIRED TO CLEAR STRUCTURAL MEMBERS, EXISTING EQUIPMENT, ETC. TO FACILITATE INSTALLATION OF THE WORK IN THE MANNER INDICATED.

3. ALL WORK SHALL COMPLY WITH THE LOCALLY ADOPTED ELECTRICAL CODE AND ALL APPLICABLE LAWS, CODES, RECOMMENDATIONS, REGULATIONS, AND INTERIM AMENDMENTS, OF THE GOVERNMENTAL BODIES HAVING JURISDICTION INCLUDING ADA COMPLIANCE. ALL ELECTRICAL WORK SHALL BE PERFORMED IN COMPLIANCE WITH ALL APPLICABLE GOVERNING SAFETY REGULATIONS, INCLUDING OSHA REGULATIONS. ALL SAFETY LIGHTS, GUARDS AND SIGNS REQUIRED FOR THE PERFORMANCE OF THE ELECTRICAL WORK SHALL BE PROVIDED BY AND OPERATED BY THE ELECTRICAL CONTRACTOR.

4. THE INTENT OF THE DRAWINGS IS TO INDICATE THE GENERAL EXTENT OF WORK REQUIRED FOR THE PROJECT. THE DRAWINGS FOR ELECTRICAL WORK ARE DIAGRAMMATIC, SHOWING THE LOCATION, TYPE, DEVICES AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. PROVIDE ALL FIXTURES, DEVICES, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE THE SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT FURNISHED BY OTHERS.

5. ELECTRICAL DESIGN FOR THIS INSTALLATION IS BASED ON FIELD INSPECTIONS AND PREVIOUS DESIGN DRAWINGS FOR THE EXISTING BUILDING. ELECTRICAL CONTRACTOR IS TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO BIDDING. ALLOWANCES ARE TO BE INCLUDED FOR UNFORESEEN EXISTING CONDITIONS THAT MAY EFFECT THE CONTRACTOR'S SCOPE OF WORK. MINOR DEVIATIONS REQUIRED FOR ACCOMPLISHING THE INTENT OF THIS DESIGN IS TO BE INCLUDED IN THIS ALLOWANCE.

6. ELECTRICAL CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES. ANY ITEM DAMAGED BY THIS CONTRACTOR IS TO BE REPAIRED IMMEDIATELY AND AT NO COST TO THE OWNER.

7. ROOF PENETRATIONS SHALL COMPLY WITH "SMACNA" AND "NRCA" STANDARDS, AND WITH THE REQUIREMENTS OF THE EXISTING ROOFING WARRANTY, IF APPLICABLE. DO NOT PERFORM ROOFING PENETRATIONS IN A MANNER WHICH WOULD VOID OR OTHERWISE LIMIT THE EXISTING ROOFING WARRANTY.

8. ALL EQUIPMENT AND COMPONENTS FURNISHED AND/OR INSTALLED SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL).

9. WARRANTIES:

   A. CONTRACTOR SHALL WARRANT ALL WORK PERFORMED AND MATERIAL & LABOR PROVIDED UNDER THE CONTRACT AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP FOR ONE YEAR FROM SUBSTANTIAL COMPLETION. PROVIDE ALL SERVICES AS REQUIRED TO IMMEDIATELY REPAIR OR REPLACE, AT NO ADDITIONAL COST, ANY DEFECTIVE PART OF THE INSTALLATION RESULTING FROM THE SUPPLY OF FAULTY WORKMANSHIP OR MATERIAL. LACK OF MAINTENANCE, ACCIDENTS, OR CARELESSNESS ON THE PART OF THE OWNER SHALL NOT BE INCLUDED IN THIS WARRANTY.

   B. ALL LAMPS ARE TO BE WARRANTED ACCORDING TO LAMP MANUFACTURER, WHICH IS ALSO BASED ON AVERAGE LIFE DATA FOR EACH SPECIFIC TYPE OF LAMP. PROVIDE LABOR TO REPLACE ALL DEFECTIVE LAMPS THAT ARE WITHIN LAMP MANUFACTURER'S WARRANTY PERIOD.

   C. ALL EQUIPMENT, APPARATUS AND APPLIANCES WHICH ARE SPECIFIED AND/OR COME WITH WARRANTIES LONGER THAN ONE YEAR SHALL BE REGISTERED WITH THE MANUFACTURER IN THE OWNER'S NAME.

10. CUTTING AND PATCHING:

   A. NO STRUCTURAL MEMBERS SHALL BE CUT, DRILLED, OR PENETRATED WITHOUT PRIOR APPROVAL FROM THE ARCHITECT.

   B. PROVIDE CUTTING, PATCHING, AND PATCH PAINTING IN EXISTING STRUCTURES, AS REQUIRED FOR THE INSTALLATION OF WORK OF THIS SECTION. EXTENT OF CUTTING SHALL BE MINIMIZED. USE CORE DRILLS, POWER SAWS, AND OTHER MACHINES WHICH WILL PROVIDE NEAT, MINIMUM OPENINGS. REFER TO STRUCTURAL DRAWINGS FOR LINTELS AND SUPPORTS TO BE FURNISHED BY OTHERS FOR THE ELECTRICAL WORK. ALL OTHER LINTELS AND SUPPORTS REQUIRED FOR THE ELECTRICAL WORK SHALL BE FURNISHED BY DIVISION 16. PATCHING SHALL MATCH AND EQUAL ADJACENT MATERIALS AND SURFACES AND SHALL BE PERFORMED BY CRAFTSMAN SKILLED IN THE RESPECTIVE CRAFT REQUIRED. PATCHED FINISHES SHALL BE APPROVED BY THE ARCHITECT.

   C. ALL PUBLIC AND PRIVATE PROPERTY DAMAGED AS A RESULT OF WORK PERFORMED UNDER THIS CONTRACT SHALL BE REPAIRED AND REPLACED BY THIS CONTRACTOR, TO THE SATISFACTION OF THE AUTHORITIES HAVING REGULATORY JURISDICTION AND BUILDING OWNER.

SECTION 16060 – GROUNDING

1. EXTENT OF ELECTRICAL GROUNDING AND BONDING WORK IS INDICATED BY DRAWINGS AND AS SPECIFIED HEREIN. GROUNDING AND BONDING WORK IS DEFINED TO ENCOMPASS SYSTEMS, CIRCUITS, AND EQUIPMENT.

2. EXCEPT AS OTHERWISE INDICATED, PROVIDE ELECTRICAL GROUNDING AND BONDING SYSTEMS INDICATED WITH ASSEMBLY OF MATERIALS, INCLUDING, BUT NOT LIMITED TO, CABLES/WIRES, CONNECTORS, SOLDERLESS LUG TERMINALS, GROUNDING ELECTRODES AND PLATE ELECTRODES, BONDING JUMPER BRAID, AND ADDITIONAL ACCESSORIES NEEDED FOR A COMPLETE INSTALLATION. WHERE MORE THAN ONE TYPE COMPONENT PRODUCT MEETS INDICATED REQUIREMENTS, SELECTION IS INSTALLER'S OPTION. WHERE MATERIALS OR COMPONENTS ARE NOT INDICATED, PROVIDE PRODUCTS WHICH COMPLY WITH BUILDING CODES, UL, AND IEEE REQUIREMENTS AND WITH ESTABLISHED INDUSTRY STANDARDS FOR THOSE APPLICATIONS INDICATED.

3. INSTALL ELECTRICAL GROUNDING AND BONDING SYSTEMS AS INDICATED, IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND APPLICABLE PORTIONS OF THE BUILDING CODES, NECA'S "STANDARD OF INSTALLATION", AND IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES TO ENSURE THAT PRODUCTS COMPLY WITH REQUIREMENTS.

4. RACEWAY SYSTEMS SHALL <u>NOT</u> BE USED AS GROUNDING METHOD. ALL BRANCH AND FEEDER CONDUITS TO HAVE A GROUNDING CONDUCTOR INSTALLED WITH PHASE AND NEUTRAL CONDUCTORS. SIZE OF GROUND CONDUCTOR TO BE IN ACCORDANCE WITH THE ADOPTED ELECTRICAL CODE. TERMINATE FEEDER AND BRANCH CIRCUIT INSULATED EQUIPMENT GROUNDING CONDUCTORS WITH GROUNDING LUG, BUS, OR BUSHING.

SECTION 16080 – TESTING

1. ALL ELECTRICAL EQUIPMENT ON THIS PROJECT PROVIDED UNDER THIS DIVISION AND ALL ELECTRICAL EQUIPMENT FURNISHED BY OTHERS SHALL BE ADJUSTED, ALIGNED AND TESTED BY THE ELECTRICAL CONTRACTOR.

2. MECHANISMS OF ALL ELECTRICAL EQUIPMENT SHALL BE CHECKED, ADJUSTED AND TESTED FOR PROPER OPERATION. MOTORS SHALL BE CHECKED FOR ALIGNMENT WITH DRIVE AND ADJUSTED AS REQUIRED. PROTECTIVE DEVICES AND PARTS SHALL BE CHECKED AND TESTED FOR SPECIFIED AND REQUIRED APPLICATION AND ADJUSTED AS REQUIRED. ADJUSTABLE PARTS OF ALL LIGHTING FIXTURES AND ELECTRICAL EQUIPMENT SHALL BE CHECKED, TESTED AND ADJUSTED AS REQUIRED TO PRODUCE THE INTENDED PERFORMANCE.

3. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE OPERATION, SERVICE AND MAINTENANCE OF ALL NEW ELECTRICAL EQUIPMENT DURING CONSTRUCTION AND PRIOR TO ACCEPTANCE BY THE OWNER OF THE COMPLETED PROJECT UNDER THIS CONTRACT. ALL ELECTRICAL EQUIPMENT SHALL BE MAINTAINED IN THE BEST OPERATING CONDITION INCLUDING PROPER LUBRICATION. OPERATIONAL FAILURE CAUSED BY DEFECTIVE MATERIAL AND/OR LABOR SHALL BE IMMEDIATELY CORRECTED AND THE ARCHITECT SHALL BE IMMEDIATELY NOTIFIED OF ANY OPERATIONAL FAILURE CAUSED BY DEFECTIVE MATERIAL AND/OR LABOR PROVIDED BY OTHERS.

4. THIS CONTRACTOR SHALL MAINTAIN SERVICE AND EQUIPMENT FOR THE TESTING OF ELECTRICAL EQUIPMENT AND APPARATUS UNTIL ALL WORK IS APPROVED AND ACCEPTED BY THE OWNER. A FIRST CLASS VOLTMETER AND AMMETER SHALL BE KEPT AVAILABLE AT ALL TIMES AND THIS CONTRACTOR SHALL PROVIDE SERVICE FOR TEST READINGS WHEN AND AS REQUIRED.

5. THE ELECTRICAL DISTRIBUTION DESIGN HAS BEEN PROVIDED WITH A LOAD-BALANCED ELECTRICAL SYSTEM. IF MODIFICATIONS, DUE TO CONTRACTORS CONSTRUCTION OR CHANGE-ORDERS HAVE BEEN MADE TO THE DESIGN THEN THIS CONTRACTOR IS TO MEASURE ALL FEEDERS CONDUCTORS CURRENTS AND BALANCE ALL SINGLE PHASE LOADS AT THOSE PANELS, REDISTRIBUTING BRANCH CIRCUIT CONNECTIONS UNTIL A MAXIMUM 10% LOAD BALANCE IS ACHIEVED. DISTRIBUTION SYSTEMS ARE TO BE MEASURED AND BALANCED UNDER FULL-LOAD CONDITIONS.

SECTION 16120 – WIRES AND CABLES

1. CONDUCTORS: PROVIDE SOLID CONDUCTORS FOR POWER AND LIGHTING CIRCUITS NO. 10 AWG AND SMALLER. PROVIDE STRANDED CONDUCTORS FOR SIZES NO. 8 AWG AND LARGER.

2. CONDUCTOR MATERIAL: COPPER FOR ALL WIRES AND CABLES.

3. INSULATION: PROVIDE THHN/THWN INSULATION FOR ALL CONDUCTORS NO. 14 AWG THRU NO. 10 AWG. PROVIDE USE-RHH/RHW INSULATION FOR ALL SERVICE ENTRANCE CONDUCTORS. FOR ALL OTHER SIZES PROVIDE THHN/THWN OR XHHW INSULATION AS APPROPRIATE FOR THE LOCATION WHERE INSTALLED.

4. ALUMINUM CONDUCTORS ARE NOT APPROVED OR ACCEPTABLE.

5. INSTALLATION OF WIRES AND CABLES:

   A. ALL BRANCH CIRCUIT WIRES, FEEDER CABLES, ETC., SHALL BE CONTINUOUS FROM OUTLET TO OUTLET. NO JOINTS SHALL BE MADE EXCEPT IN OUTLET, JUNCTION OR PULL BOXES, PANELBOARD AND SWITCHBOARD GUTTERS. FOR THE SPLICING OF EXISTING FEEDER CONDUCTORS, COMPRESSION TYPE BUTT SPLICES WITH COLD SHRINK INSULATION KITS ARE TO BE USED.

   B. TIGHTEN ELECTRICAL CONNECTORS AND TERMINALS, INCLUDING SCREWS AND BOLTS, IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED TORQUE TIGHTENING VALUES. WHERE MANUFACTURER'S TORQUE REQUIREMENTS ARE NOT INDICATED, TIGHTEN CONNECTORS AND TERMINALS TO COMPLY WITH TIGHTENING TORQUE'S SPECIFIED IN UL 486A AND UL 486B.

   C. TERMINALS ON SWITCHES AND CONVENIENCE OUTLETS SHALL NOT BE USED TO "FEED THROUGH" TO THE NEXT SWITCH OR OUTLET. WHERE MORE THAN ONE GROUND, COMMON NEUTRAL, OR COMMON PHASE CONDUCTOR ENTERS A BOX, ALL LIKE CONDUCTORS SHALL BE IN GOOD ELECTRICAL CONTACT WITH EACH OTHER AND THE ARRANGEMENT SHALL BE SUCH, THAT THE DISCONNECTING OR REMOVAL OF A DEVICE FED FROM THE BOX, WILL NOT INTERFERE WITH OR INTERRUPT SERVICE TO THE REMAINDER OF THE BRANCH CIRCUIT WIRING.

208Y/120 VOLTS NORMAL	PHASE
BLACK	A
RED	B
BLUE	C
WHITE	NEUTRAL
GREEN	GROUND
GREEN W/ YELLOW STRIP	ISOLATED GROUND

SECTION 16130 – RACEWAYS

1. THIS SECTION INCLUDES RACEWAYS FOR ELECTRICAL WIRING. TYPES OF RACEWAYS IN THIS SECTION INCLUDE THE FOLLOWING:

   A. ELECTRICAL METALLIC TUBING (EMT)
   B. INTERMEDIATE METAL CONDUIT (IMC)
   C. FLEXIBLE METAL CONDUIT
   D. LIQUID-TIGHT FLEXIBLE CONDUIT
   E. RIGID METAL CONDUIT
   F. METAL CLAD (MC) AND ALUMINUM CLAD (AC) CABLE

2. WIRING METHOD:

   B. OUTDOORS: USE THE FOLLOWING WIRING METHODS:
   B.1. EXPOSED: INTERMEDIATE METAL CONDUIT.
   B.2. CONCEALED: INTERMEDIATE METAL CONDUIT.
   B.3. CONNECTION TO VIBRATING EQUIPMENT: INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC OR ELECTRIC SOLENOID OR MOTOR-DRIVEN EQUIPMENT: LIQUID-TIGHT FLEXIBLE METAL CONDUIT.
   B.4. INDOORS OR OUTDOORS: CONNECTION TO VIBRATING EQUIPMENT AND HYDRAULIC, PNEUMATIC, OR ELECTRIC SOLENOID OR MOTOR-DRIVEN EQUIPMENT IN MOIST OR HUMID LOCATION OR CORROSIVE ATMOSPHERE, OR WHERE SUBJECT TO WATER SPRAY OR DRIPPING OIL, GREASE, OR WATER: LIQUID-TIGHT FLEXIBLE METAL CONDUIT.

   C. INDOORS: USE THE FOLLOWING WIRING METHODS:
   C.1. CONNECTION TO VIBRATING EQUIPMENT: INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC OR ELECTRIC SOLENOID OR MOTOR-OPERATED EQUIPMENT: FLEXIBLE METAL CONDUIT.
   C.2. EXPOSED: ELECTRICAL METALLIC TUBING CONDUIT.
   C.3. CONCEALED: ELECTRICAL METALLIC TUBING.
   C.4. CONCEALED, IN CONCRETE EMBEDDED, STRUCTURAL INTERIOR WALLS, OR ROOF DECK PENETRATIONS: INTERMEDIATE METAL OR RIGID METAL CONDUIT.
   C.5. UNDER CONCRETE FLOOR (SLAB ON GRADE): INTERMEDIATE METAL OR RIGID METAL CONDUIT.

   D. P.V.C. CONDUIT CAN BE INSTALLED BELOW FLOOR SLAB INDOORS, ONLY IF RIGID STEEL ELBOWS ARE USED WHEN PASSING THRU FLOOR SLAB. MINIMUM SIZE P.V.C. CONDUIT THAT CAN BE INSTALLED IS 3/4" UNLESS NOTED OTHERWISE. ALL P.V.C. CONDUIT JOINTS ARE TO BE GLUED AND SEALED TO PREVENT MOISTURE FROM ENTERING RACEWAY SYSTEM. CONDUITS FOUND TO CONTAIN MOISTURE WILL BE REPAIRED OR REPLACED AS REQUIRED PRIOR TO INSTALLATION OF CONDUCTORS.

   E. METAL CLAD (MC) AND ALUMINUM CLAD (AC) CABLE
   E.1. MC AND AC CABLE MAY BE USED IN LIEU OF E.M.T. CONDUIT IF ACCEPTABLE TO LOCAL AUTHORITIES AND INSTALLED PER ELECTRICAL CODE REGARDING SUPPORT, GROUNDING AND CABLE TERMINATIONS. <u>ALL MC AND AC CABLE NOT INSTALLED PER THE ADOPTED CODE SHALL BE REMOVED, REINSTALLED AND CORRECTED AT CONTRACTOR'S EXPENSE WITH NO EXTENSION IN THE CONSTRUCTION SCHEDULE.</u>
   E.2. MC AND AC CABLE MUST BE SUPPORTED AND SECURED BY STAPLES, CABLE TIES, STRAPS, HANGERS, OR SIMILAR FITTINGS, DESIGNED AND INSTALLED SO AS NOT TO DAMAGE THE CABLE.
   E.3. MC AND AC CABLE, WITH FOUR OR LESS CONDUCTORS SIZED NO LARGER THAN 10 AWG, MUST BE SECURED WITHIN 12 IN. OF EVERY OUTLET BOX, JUNCTION BOX, CABINET, OR FITTING AND AT INTERVALS NOT EXCEEDING 6 FT.
   E.4. MC AND AC CABLE MUST BE SUPPORTED AT INTERVALS NOT EXCEEDING 6 FT. CABLES INSTALLED HORIZONTALLY THROUGH WOODEN OR METAL FRAMING MEMBERS ARE CONSIDERED SECURED AND SUPPORTED WHERE SUCH SUPPORT DOESN'T EXCEED 6 FT INTERVALS.
   E.5. <u>MAY NOT BE USED IN EXTERIOR APPLICATIONS</u>

3. CONDUIT SHALL BE INSTALLED AS A COMPLETE SYSTEM, CONTINUOUS FROM OUTLET TO OUTLET, CABINET OR FITTING, AND BE SO MECHANICALLY AND ELECTRICALLY CONNECTED THAT ADEQUATE ELECTRICAL CONTINUITY FROM ONE CONDUIT TO ANOTHER IS SECURED. THE ENTIRE SYSTEMS SHALL BE SECURELY FASTENED IN PLACE WITHIN 3' OF EACH OUTLET OR JUNCTION BOX, CABINET OR FITTING, AND AT INTERVALS NOT EXCEEDING 10', EXCEPT AS OTHERWISE SPECIFIED OR SHOWN. SINGLE CONDUITS FOR FEEDERS SHALL BE HUNG WITH GRINNEL, CRANE, OR EQUAL, MALLEABLE SPLIT RING HANGERS WITH ROD SUSPENSION SPACED NOT OVER 10' APART FROM CONSTRUCTION ABOVE. GROUPS OF HORIZONTAL FEEDER AND BRANCH CIRCUIT CONDUITS SHALL BE CLAMPED TO UNISTRUT, OR EQUAL, STEEL CHANNELS AND SUSPENDED FROM RODS SUPPORTED FROM STRUCTURE, SPACED NOT OVER 10' APART FROM CONSTRUCTION ABOVE. WHERE POSSIBLE CONDUITS MAY BE CLAMPED DIRECTLY TO THE STEEL JOISTS.

4. USE RACEWAY FITTINGS THAT ARE OF TYPES COMPATIBLE WITH THE ASSOCIATED RACEWAY AND SUITABLE FOR THE USE AND LOCATION. FOR INTERMEDIATE METAL CONDUIT, USE THREADED RIGID STEEL CONDUIT FITTINGS. FOR EMT CONDUITS: FITTINGS ARE TO BE COMPRESSION OR SET SCREW TYPE.

5. INSTALL PULL WIRES IN EMPTY RACEWAYS. USE NO. 14 AWG ZINC-COATED STEEL OR MONOFILAMENT PLASTIC LINE HAVING NOT LESS THAN 200-LB TENSILE STRENGTH. LEAVE NOT LESS THAN 12 INCHES OF SLACK AT EACH END OF THE PULL WIRE.

6. TELEPHONE AND SIGNAL SYSTEM RACEWAYS 2-INCH TRADE SIZE AND SMALLER: IN ADDITION TO THE ABOVE REQUIREMENTS, INSTALL RACEWAYS IN MAXIMUM LENGTHS OF 150 FEET AND WITH A MAXIMUM OF TWO, 90 BENDS OR EQUIVALENT. INSTALL PULL OR JUNCTION BOXES WHERE NECESSARY TO COMPLY WITH THESE REQUIREMENTS.

7. ALL CONDUITS ABOVE LAY-IN CEILING SYSTEM SHALL NOT BE SUPPORTED FROM CEILING SUSPENSION WIRES.

8. METAL CLAD (MC) AND ALUMINUM CLAD (AC) CABLES:

   A. ALL HOMERUNS TO PANELBOARDS SHALL REMAIN IN E.M.T. CONDUIT.
   B. MC AND AC CABLES SHALL NOT BE USED IN EXPOSED AREAS.
   C. ALL FITTINGS SHALL BE LISTED FOR USE WITH MC AND AC CABLE USED.
   D. CONDUCTORS IN MC AND AC CABLE SHALL COMPLY WITH SECTION "WIRES & CABLES".

SECTION 16135 – CABINETS, BOXES AND FITTINGS

1. THIS SECTION INCLUDES CABINETS, BOXES, AND FITTINGS FOR ELECTRICAL INSTALLATIONS AND CERTAIN TYPES OF ELECTRICAL FITTINGS NOT COVERED IN OTHER SECTIONS

2. METAL OUTLET, DEVICE, AND SMALL WIRING BOXES:

   A. GENERAL: CONFORM TO UL 514A, "METALLIC OUTLET BOXES, ELECTRICAL," AND UL 514B, "FITTINGS FOR CONDUIT AND OUTLET BOXES." BOXES SHALL BE OF TYPE, SHAPE, SIZE, AND DEPTH TO SUIT EACH LOCATION AND APPLICATION.

   B. STEEL BOXES: CONFORM TO NEMA OS 1, "SHEET STEEL OUTLET BOXES, DEVICE BOXES, COVERS, AND BOX SUPPORTS." BOXES SHALL BE SHEET STEEL WITH STAMPED KNOCKOUTS, THREADED SCREW HOLES AND ACCESSORIES SUITABLE FOR EACH LOCATION INCLUDING MOUNTING BRACKETS AND STRAPS, CABLE CLAMPS, EXTERIOR RINGS AND FIXTURE STUDS.

3. PULL AND JUNCTION BOXES:

   A. STEEL BOXES: SHEET STEEL WITH WELDED SEAMS. WHERE NECESSARY TO PROVIDE A RIGID ASSEMBLY, CONSTRUCT WITH INTERNAL STRUCTURAL STEEL BRACING.

   B. HOT-DIPPED GALVANIZED STEEL BOXES: SHEET STEEL WITH WELDED SEAMS. WHERE NECESSARY TO PROVIDE A RIGID ASSEMBLY, CONSTRUCT WITH INTERNAL STRUCTURAL STEEL BRACING. HOT-DIP GALVANIZED AFTER FABRICATION.

4. CABINETS:

   A. COMPLY WITH UL 50, "ELECTRICAL CABINETS AND BOXES." SHEET STEEL, NEMA 1 CLASS EXCEPT AS OTHERWISE INDICATED. CABINET SHALL CONSIST OF A BOX AND A FRONT CONSISTING OF A ONE-PIECE FRAME AND A HINGED DOOR. ARRANGE DOOR TO CLOSE AGAINST A RABBET PLACED ALL AROUND THE INSIDE EDGE OF THE FRAME, WITH A UNIFORMLY CLOSE FIT BETWEEN DOOR AND FRAME. PROVIDE CONCEALED FASTENERS, NOT OVER 24-INCHES APART, TO HOLD FRONTS TO CABINET BOXES AND PROVIDE FOR ADJUSTMENT. PROVIDE FLUSH OR CONCEALED DOOR HINGES NOT OVER 24-INCHES APART AND NOT OVER 6-INCHES FROM TOP AND BOTTOM OF DOOR. FOR FLUSH CABINETS, MAKE THE FRONT APPROXIMATELY 3/4 INCH LARGER THAN THE BOX ALL AROUND. FOR SURFACE MOUNTED CABINETS MAKE FRONT SAME HEIGHT AND WIDTH AS BOX.

   B. DOORS: DOUBLE DOORS FOR CABINETS WIDER THAN 24-INCHES. TELEPHONE CABINETS WIDER THAN 48-INCHES MAY HAVE SLIDING OR REMOVABLE DOORS.

   C. LOCKS: COMBINATION SPRING CATCH AND KEY LOCK, WITH ALL LOCKS FOR CABINETS OF THE SAME SYSTEM KEYED ALIKE. LOCKS MAY BE OMITTED ON SIGNAL, POWER, AND LIGHTING CABINETS LOCATED WITHIN WIRE CLOSETS AND MECHANICAL-ELECTRICAL ROOMS. LOCKS SHALL BE OF A TYPE TO PERMIT DOORS TO LATCH CLOSED WITHOUT LOCKING.

5. STEEL ENCLOSURES WITH HINGED DOORS:

   A. COMPLY WITH UL 50, "CABINETS AND ENCLOSURES" AND NEMA ICS 6, "ENCLOSURES FOR INDUSTRIAL CONTROLS AND SYSTEMS." SHEET STEEL, 16 GAGE MINIMUM, WITH CONTINUOUS WELDED SEAMS. NEMA CLASS AS INDICATED ARRANGED FOR SURFACE MOUNTING.

   B. DOORS: HINGED DIRECTLY TO CABINET AND REMOVABLE, WITH APPROXIMATELY 3/4-INCH FLANGE AROUND ALL EDGES, SHAPED TO COVER EDGE OF BOX. PROVIDE HANDLE OPERATED, KEY LOCKING LATCH. INDIVIDUAL DOOR WIDTH SHALL BE NO GREATER THAN 24-INCHES. PROVIDE MULTIPLE DOORS WHERE REQUIRED.

   C. ENCLOSURE: WHERE DOOR GASKETING IS REQUIRED, PROVIDE NEOPRENE GASKET ATTACHED WITH OIL-RESISTANT ADHESIVE, AND HELD IN PLACE WITH STEEL RETAINING STRIPS. FOR ALL ENCLOSURES OF CLASS HIGHER THAN NEMA 1, USE HUBBED RACEWAY ENTRANCES.

6. WEATHERPROOF PULL AND SPLICE BOXES:

   A. BOXES TO BE NEMA 12 AND 13 RATED, ALL STEEL CONSTRUCTION CONFORMING TO J.I.C. STANDARD EGP-1-1997. EXTERNAL MOUNTING FEET FOR SURFACE MOUNTING. OIL-RESISTANT GASKET ATTACHED TO INSIDE OF DOOR COVER. CONTINUOUS HINGE AND EXTERNAL SCREW CLAMP FOR QUICK OPENING AND CLOSING.

7. FIRESTOP FOR RECESSED WALL BOXES:

   A. INSTALLATIONS OF MULTIPLE BOXES (LESS THAN 24" APART) WITH MAXIMUM 4-11/16" BY 4-11/16" FLUSH DEVICE UL LISTED METAL OUTLET BOXES IN FIRE RATED GYPSUM WALL BOARD WALL ASSEMBLIES FRAMED WITH MINIMUM 3-1/2" WIDE WOOD OR STEEL STUDS AND CONSTRUCTED AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE FIRE RESISTANCE DIRECTORY. 3M #MPP-4S MOLDABLE PUTTY PADS ARE TO BE INSTALLED ON THE EXTERIOR SURFACES OF THE FLUSH DEVICE BOX IN 1 AND 2 HOUR FIRE RATED WALLS AND PARTITIONS.

8. PULL AND SPLICE BOXES LOCATED OUTDOORS OR WHERE INDICATED ON DRAWINGS ARE TO BE WEATHERPROOF TYPE J.I.C. BOXES. CONDUIT TERMINATIONS ARE TO BE ACCOMPLISHED BY USING MEYER HUBS.

9. ELECTRICALLY GROUND METALLIC CABINETS, BOXES, AND ENCLOSURES. WHERE WIRING TO ITEM INCLUDES A GROUNDING CONDUCTOR, PROVIDE A GROUNDING TERMINAL IN THE INTERIOR OF THE CABINET, BOX OR ENCLOSURE.

SECTION 16140 – WIRING DEVICES

1. THIS SECTION INCLUDES THE FOLLOWING:

   A. RECEPTACLES
   B. LIGHTING AND EQUIPMENT SWITCHES
   C. WALL PLATES
   D. OCCUPANCY SENSORS

2. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:

   A. WIRING DEVICES & ACCESSORIES:
   A.1. COPPER WIRING DEVICES
   A.2. CROUSE-HINDS CO.
   A.3. HUBBELL INC.
   A.4. LEVITON
   A.5. PASS AND SEYMOUR INC.

   B. OCCUPANCY SENSOR LIGHTING CONTROL:
   B.1. HUBBELL INC.
   B.2. LEVITON MANUFACTURING INC.
   B.3. WATT STOPPER INC.
   B.4. SENSOR SWITCH
   B.5. GREENGATE

3. WIRING DEVICES:
   A. PROVIDE WIRING DEVICES, IN TYPES, CHARACTERISTICS, GRADES, COLORS, AND ELECTRICAL RATINGS FOR APPLICATIONS INDICATED WHICH ARE UL LISTED AND WHICH COMPLY WITH NEMA WD 1 AND OTHER APPLICABLE UL AND NEMA STANDARDS. ALL DEVICES TO BE SPECIFICATION GRADE (HEAVY DUTY U.L. GRADE), WITH GREEN HEXAGONAL EQUIPMENT GROUND SCREW, METAL PLASTER EARS AND SIDE TERMINAL SCREWS FOR BACK AND SIDE WIRING.

   B. ALL WIRING DEVICES ARE TO BE PROVIDED BY THE SAME MANUFACTURER UNLESS NOTED OTHERWISE.

   C. ALL WIRING DEVICES AND COVERPLATES SHALL BE:
   C.1. WHITE – WHERE INSTALLED IN WHITE CEILINGS.
   C.2. BLACK – WHERE INSTALLED IN DARK CEILINGS.

SECTION 16140 – WIRING DEVICES

D. RECEPTACLES:
D.1. DUPLEX RECEPTACLE, 20 AMP, 125 VOLT, 2-POLE, 3-WIRE, GROUNDING TYPE WITH NEMA CONFIGURATION 5-20R, MEETS FEDERAL SPEC. WC-596-F. LEVITON #5352.

D.2. GROUND FAULT INTERRUPTER RECEPTACLE, 20 AMP, 125 VOLT, 2-POLE, 3-WIRE, GROUNDING TYPE WITH NEMA CONFIGURATION 5-20R. UL943 APPROVED, SELF-TESTING, SOLID STATE GROUND FAULT SENSING LEVEL WITH 5 MILLIAMPERES GROUND FAULT TRIP LEVEL. LED INDICATOR LIGHT WITH TEST/RESET BUTTONS THAT MATCH THE COLOR OF THE FACE. LEVITON #G5362-WT*.

D.3. WEATHERPROOF RECEPTACLE SHALL BE A GROUND-FAULT INTERRUPTER WITH THOMAS & BETTS #CKSUV DIE-CAST ALUMINUM "SMALL" COVER PLATE. LOCATE BOX VERTICAL IN WALL. PLATE TO BE LISTED AND LABELED "SUITABLE FOR WET LOCATIONS WHILE IN USE.

D.4. ISOLATED GROUND DUPLEX RECEPTACLE, 20 AMP, 125 VOLT, 2-POLE, 3-WIRE, FACE WITH ORANGE TRIANGLE, GROUND SCREW ISOLATED FROM MOUNTING YOKE, NEMA CONFIGURATION 5-20RIG. LEVITON #5362-IG.

D.5. HEAVY DUTY RECEPTACLES SHALL BE OF THE SAME MANUFACTURER AS THE CONVENIENCE OUTLETS AND HAVE THE RATINGS AND CHARACTERISTICS (VOLTAGE, AMPS, POLES, WIRES) AS SHOWN ON DRAWINGS.

E. SWITCHES:
E.1. TOGGLE TYPE SWITCH, 20 AMP, 120/277 VOLT AC SINGLE-POLE, QUITE TYPE, WITH MOUNTING YOKE INSULATED FROM MECHANISM, EQUIPPED WITH PLASTER EARS, SIDE-WIRED SCREW TERMINALS, MEETS FEDERAL SPEC WS-896. LEVITON #1121-2.
E.1.1. DOUBLE-POLE, 3-WAY, AND 4-WAY SWITCHES SHALL BE OF THE SAME MAKE AS FOR SINGLE-POLE.

F. WALL PLATES: SINGLE AND COMBINATION, OF TYPES, SIZES, AND WITH GANGING AND CUTOUTS AS INDICATED. PROVIDE PLATES WHICH MATE WITH WIRING DEVICES TO WHICH ATTACHED. PROVIDE METAL SCREWS FOR SECURING PLATES TO DEVICES WITH SCREW HEADS TO MATCH FINISH OF PLATES. PROVIDE WALL PLATES WITH ENGRAVED LEGEND WHERE INDICATED. CONFORM TO REQUIREMENTS OF SECTION "ELECTRICAL IDENTIFICATION."

G. OCCUPANCY SENSOR LIGHTING CONTROL:
G.1. WALL MOUNTED OCCUPANCY SENSOR TO BE PASSIVE INFRARED COVERING 1200 (OR 900) SQUARE FEET, RATED FOR 120/277 VOLT, 1500 WATTS MAXIMUM LOAD OF INCANDESCENT OR FLUORESCENT LIGHT. SENSOR TO HAVE 180° FIELD OF VIEW, OFF/AUTO/ON SLIDE SWITCH, ADJUSTABLE TIME-OUT FROM 1 TO 20 MINUTES, AND LED MOVEMENT INDICATOR PILOT. SENSOR TO BE MOUNTED IN A SINGLE-GANG WALL BOX AT SAME ELEVATION AS STANDARD WALL SWITCHES.
G.1.1. WATT STOPPER #PW-100 SINGLE REALY (OR #PW-200 DUAL RELAY).

G.2. CEILING MOUNTED OCCUPANCY SENSOR TO BE DUAL TECHNOLOGY WITH ULTRASONIC & PASSIVE INFRARED TYPE SENSORS. SENSORS TO HAVE TWO-WAY OR ONE-WAY DISTRIBUTION DEPENDING ON MOUNTING LOCATION CAPABLE OF ADJUSTING THE SENSITIVITY AND LENGTH OF OPERATION BASED ON PAST ACTIVITY LEVEL OF THE AREA'S OCCUPANTS. CUSTOM PERFORMANCE CONTROLS TO BE LOCATED BEHIND THE SENSOR LENS FOR FIELD MODIFICATION OF SENSOR DESIGN. UNIT TO BE MOUNTED TO RECESSED JUNCTION BOX.
G.2.1. WATT STOPPER #DT-355, 800W @ 120V (1200W @ 277V)

4. INSTALLATION OF WIRING DEVICES AND ACCESSORIES:

   A. GROUPS OF SWITCHES OR SWITCH AND OUTLET COMBINATIONS SHALL BE MOUNTED UNDER ONE COVER PLATE. COVER PLATES SHALL FIT THE DEVICES SECURELY AND SHALL COVER THE WALL OPENING COMPLETELY TO PROVIDE A NEAT AND FINISHED APPEARANCE FLUSH WITH SURROUNDING SURFACES.

   B. TERMINALS ON ALL WIRING DEVICES SHALL NOT BE USED TO FEED-THROUGH TO THE NEXT DEVICES.

   C. INSTALL WALL-MOUNTED RECEPTACLES WITH GROUND SLOT UP.

   D. RECEPTACLE MOUNTED ABOVE COUNTER-TOP TO BE INSTALLED HORIZONTAL, WITH LONG DIMENSION PARALLEL TO FLOOR AND COUNTER-TOP.

SECTION 16190 – SUPPORTING DEVICES

1. THIS SECTION INCLUDES SECURE SUPPORT FROM THE BUILDING STRUCTURE FOR ELECTRICAL ITEMS BY MEANS OF HANGERS, SUPPORTS, ANCHORS, SLEEVES, INSERTS, SEALS, AND ASSOCIATED FASTENINGS.

2. COATING: SUPPORTS, SUPPORT HARDWARE, AND FASTENERS SHALL BE PROTECTED WITH ZINC COATING OR WITH TREATMENT OF EQUIVALENT CORROSION RESISTANCE USING APPROVED ALTERNATIVE TREATMENT, FINISH, OR INHERENT MATERIAL CHARACTERISTIC. PRODUCTS FOR USE OUTDOORS SHALL BE HOT-DIP GALVANIZED.

3. INSTALL SUPPORTING DEVICES TO FASTEN ELECTRICAL COMPONENTS SECURELY AND PERMANENTLY IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.

4. SUPPORT INDIVIDUAL HORIZONTAL RACEWAYS BY SEPARATE PIPE HANGERS. SPRING STEEL FASTENERS MAY BE USED IN LIEU OF HANGERS ONLY FOR 3/4-INCH AND SMALLER RACEWAYS SERVING LIGHTING AND RECEPTACLE BRANCH CIRCUITS ABOVE SUSPENDED CEILINGS ONLY. FOR HANGER RODS WITH SPRING STEEL FASTENERS, USE 1/4-INCH-DIAMETER OR LARGER THREADED STEEL. USE SPRING STEEL FASTENERS THAT ARE SPECIFICALLY DESIGNED FOR SUPPORTING SINGLE CONDUITS OR TUBING. CONDUITS ABOVE LAY-IN CEILING SYSTEM SHALL NOT BE SUPPORTED FROM CEILING SUSPENSION WIRES.

5. INSTALL INDIVIDUAL AND MULTIPLE (TRAPEZE) RACEWAY HANGERS AND RISER CLAMPS AS NECESSARY TO SUPPORT RACEWAYS. PROVIDE U-BOLTS, CLAMPS, ATTACHMENTS AND OTHER HARDWARE NECESSARY FOR HANGER ASSEMBLY AND FOR SECURING HANGER RODS AND CONDUITS.

6. SUPPORT PARALLEL RUNS OF HORIZONTAL RACEWAYS TOGETHER ON TRAPEZE-TYPE HANGERS

7. DO NOT CUT HOLES IN REINFORCED CONCRETE BEAMS OR CUT REINFORCING BARS IN CONCRETE WITH OUT WRITTEN APPROVAL OF STRUCTURAL ENGINEER.

8. UNLESS OTHERWISE INDICATED, FASTEN ELECTRICAL ITEMS AND THEIR SUPPORTING HARDWARE SECURELY TO THE BUILDING STRUCTURE, INCLUDING BUT NOT LIMITED TO CONDUITS, RACEWAYS, CABLES, CABLE TRAYS, BUSWAYS, CABINETS, PANELBOARDS, TRANSFORMERS, BOXES, DISCONNECT SWITCHES, AND CONTROL COMPONENTS.

SECTION 16410 – DISCONNECTS, CONTACTORS, STARTERS

1. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:

   A. GENERAL ELECTRIC CO.
   B. SQUARE D COMPANY.
   C. EATON CORPORATION
   D. SIEMENS, I.T.E.

2. TEMPERATURE RATINGS: ALL CONDUCTOR TERMINALS AND EQUIPMENT ENCLOSURES TO BE U.L. LISTED FOR USE WITH MINIMUM 75C RATED CONDUCTORS.

3. DISCONNECT SWITCHES:

   A. PROVIDE CIRCUIT AND MOTOR DISCONNECT SWITCHES OF TYPES, SIZES AND ELECTRICAL CHARACTERISTICS INDICATED ON DRAWING. FUSIBLE OR NON-FUSED TYPE, RATED 250 OR 600 VOLTS, 60 HZ, 2- OR 3-POLES, SOLID NEUTRAL; AND INCORPORATING QUICK-MAKE, QUICK-BREAK TYPE SWITCHES; CONSTRUCT SO THAT SWITCH BLADES ARE VISIBLE IN OFF POSITION WITH DOOR OPEN. SWITCH SHALL HAVE A DUAL COVER INTERLOCK TO PREVENT UNAUTHORIZED OPENING OF THE SWITCH DOOR WHEN HANDLE IS IN THE "ON" POSITION, AND TO PREVENT CLOSING OF THE SWITCH MECHANISM WITH THE DOOR OPEN. EQUIP WITH OPERATING HANDLE WHICH IS INTEGRAL PART OF ENCLOSURE BASE AND WHOSE POSITION IS EASILY RECOGNIZABLE, AND IS PADLOCKABLE IN OFF POSITION; CONSTRUCT CURRENT CARRYING PARTS OF HIGH-CONDUCTIVITY COPPER, WITH SILVER-TUNGSTEN TYPE SWITCH CONTACTS, AND POSITIVE PRESSURE TYPE REINFORCED FUSE CLIPS. PROVIDE SWITCH IN NEMA 1 OR NEMA TYPE 3R ENCLOSURE AS INDICATED OR REQUIRED. INSTALL ENGRAVED PLASTIC PLATE AS TO WHAT EACH SWITCH CONTROLS.

   B. EQUIPMENT REQUIRING A DISCONNECTING MEANS, RATED FOR 120 OR 208 VOLT SINGLE PHASE, UP TO 30 AMPERES MAY BE PROVIDED WITH A SNAP-SWITCH TYPE TOGGLE DEVICE AT THE EQUIPMENT. THE DEVICE IS TO HAVE AN AMPERE AND VOLTAGE RATING EQUAL TO OR GREATER THAN THE BRANCH CIRCUIT FEEDING THE EQUIPMENT. IF EQUIPMENT IS MOTOR RELATED, THEN THE SWITCH MUST BE HORSEPOWER RATED. REFER TO <u>SECTION 16140</u> FOR MINIMUM SPECIFICATIONS FOR TOGGLE SWITCHES. SWITCHES LOCATED OUTDOORS OR IN COOLER/FREEZER APPLICATIONS ARE TO BE MOUNTED IN A DIE-CAST ALUMINUM DEVICE BOX WITH GASKETED WEATHERPROOF COVER PLATE.

4. RELAYS AND CONTACTORS:

   A. GENERAL POWER PURPOSE RELAYS, FOR CONTROL OF MISCELLANEOUS MOTORS, TO BE PROVIDED AND INSTALLED WITH NUMBER OF POLES AND COIL VOLTAGE AS SHOWN ON DRAWINGS. RELAY TO BE HORSEPOWER RATED FOR THE MOTOR LOAD TO WHICH IT CONTROLS. RELAY TO BE MOUNTED IN A NEMA TYPE 1 ENCLOSURE.

   B. LIGHTING CONTACTORS TO BE PROVIDED AND INSTALLED WITH THE NUMBER OF POLES, COIL VOLTAGE, AND LOAD CONTACT RATINGS AS SHOWN ON DRAWINGS. CONTACTORS TO BE PROVIDED WITH SILVER ALLOY DOUBLE BREAK CONTACTS RATED FOR TUNGSTEN AND BALLAST LIGHTING LOADS. CONTACTS TO BE CONVERTIBLE WITH NORMALLY OPEN AND NORMALLY CLOSED INDICATORS. RELAY TO BE MOUNTED IN A NEMA TYPE 1 ENCLOSURE.

5. INSTALLATION OF EQUIPMENT:

   A. SURFACE MOUNT ON WALLS OR COLUMNS APPROXIMATELY 5'-0" TO CENTERLINE ABOVE THE FLOOR WHERE POSSIBLE.

   B. DISCONNECT SWITCHES MOUNTED ON ROOFTOP AIR CONDITIONING UNITS TO BE CAULKED BETWEEN SWITCH AND UNIT TO PROVIDE WEATHERPROOF SEAL. ELECTRICAL CONTRACTOR TO VERIFY EXACT MOUNTING LOCATION ON UNIT SO AS NOT TO COVER UP ANY REMOVABLE PANELS.

   C. WHEN RELAYS OR CONTACTORS ARE INDICATED TO BE LOCATED ABOVE THE CEILING, THE EQUIPMENT IS TO BE READILY ACCESSIBLE AND SOUND INSULATED FROM THE MOUNTING SUPPORTS.

SECTION 16470 – PANELBOARDS

1. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PANELBOARD PRODUCTS OF ONE OF THE FOLLOWING (FOR EACH TYPE AND RATING OF PANELBOARD AND ENCLOSURE):

   A. GENERAL ELECTRIC COMPANY
   B. SQUARE D COMPANY
   C. EATON CORPORATION
   D. SIEMEN'S, I.T.E.

2. 120/208 VOLT LIGHTING AND APPLIANCE PANELBOARDS: PROVIDE DEAD-FRONT SAFETY TYPE LIGHTING AND APPLIANCE PANELBOARDS AS INDICATED, WITH SWITCHING AND PROTECTIVE DEVICES IN QUANTITIES. RATINGS, TYPES AND ARRANGEMENTS SHOWN, WITH ANTI-TURN SOLDERLESS PRESSURE TYPE LUG CONNECTORS. APPROVED FOR USE WITH COPPER CONDUCTORS; CONSTRUCT UNIT FOR CONNECTING FEEDERS TO PANEL; EQUIP WITH COPPER, COPPER PLATED OR ALUMINUM BUS BARS, FULL-SIZED NEUTRAL BAR, WITH BOLT-IN TYPE HEAVY-DUTY, QUICK-MAKE, QUICK-BREAK, SINGLE-POLE CIRCUIT-BREAKERS, WITH TOGGLE HANDLES THAT INDICATE WHEN TRIPPED. PROVIDE SUITABLE LUGS ON NEUTRAL BUS FOR EACH OUTGOING FEEDER REQUIRED; AND PROVIDE BARE UNINSULATED GROUNDING BARS SUITABLE FOR BOLTING TO ENCLOSURES. SELECT ENCLOSURES FABRICATED BY SAME MANUFACTURER AS PANELBOARDS, WHICH MATE AND MATCH PROPERLY WITH PANELBOARDS. MINIMUM INTERRUPTING CAPACITY OF MANUFACTURED PANELBOARDS TO BE 10,000 A.I.C, UNLESS NOTED OTHERWISE ON THE DRAWINGS.

3. MOLDED-CASE CIRCUIT BREAKERS: PROVIDE FACTORY ASSEMBLED, MOLDED CASE CIRCUIT BREAKERS OF FRAME SIZE INDICATED. PROVIDE BREAKERS WITH PERMANENT THERMAL AND INSTANTANEOUS MAGNETIC TRIPS IN EACH POLE AND AMPERE RATING AS INDICATED. CONSTRUCT WITH OVER CENTER, TRIP-FREE, TOGGLE TYPE OPERATING MECHANISMS WITH QUICK-MAKE, QUICK-BREAK ACTION AND POSITIVE HANDLE INDICATION. CONSTRUCT BREAKERS FOR MOUNTING AND OPERATING IN ANY PHYSICAL POSITION AND OPERATING IN AN AMBIENT TEMPERATURE OF 40C. PROVIDE BREAKERS WITH MECHANICAL SCREW TYPE REMOVABLE CONNECTOR LUGS, AL/CU RATED. ALL BREAKERS TO BE BOLT-IN TYPE CONSTRUCTION. ALL BREAKERS TO BE UL489 LISTED.

   A. ALL SINGLE POLE BREAKERS TO BE RATED FOR "SWITCHING DUTY" (SWD) AND FOR OPERATION ON FLUORESCENT LIGHTING SOURCES.

   B. ALL CIRCUIT BREAKERS PROTECTING HIGH INTENSITY DISCHARGE (HID) LIGHTING TO BE RATED AND LABELED "HID" FOR OPERATION ON H.I.D. LIGHTING SOURCES

   C. CIRCUIT BREAKERS USED ON HEATING, AIR CONDITIONING, OR REFRIGERATION EQUIPMENT SHALL BE TYPE "HACR" AND U.L. LISTED FOR SUCH USE.

SECTION 16510 – LIGHTING FIXTURES

1. PROVIDE LIGHTING FIXTURES, OF SIZES, TYPES AND RATINGS INDICATED; COMPLETE WITH, BUT NOT LIMITED TO, HOUSINGS, ENERGY-EFFICIENT LAMPS, LAMP HOLDERS, REFLECTORS, ENERGY EFFICIENT BALLAST, STARTERS AND WIRING. SHIP FIXTURES FACTORY-ASSEMBLED, WITH THOSE COMPONENTS REQUIRED FOR A COMPLETE INSTALLATION. DESIGN FIXTURES WITH CONCEALED HINGES AND CATCHES, WITH METAL PARTS GROUNDED AS COMMON UNIT, AND SO CONSTRUCTED AS TO DAMPEN BALLAST GENERATED NOISE

2. LAMPS

   A. ALL LAMPS SHALL BE PROVIDED BY ONE MANUFACTURER UNLESS OTHERWISE DESIGNATED ON THE FIXTURE SCHEDULE.

3. INSTALL LIGHTING FIXTURES AT LOCATIONS AND HEIGHTS AS INDICATED, IN ACCORDANCE WITH FIXTURE MANUFACTURER'S WRITTEN INSTRUCTIONS, APPLICABLE REQUIREMENTS OF NEC, NECA'S "STANDARD OF INSTALLATION," NEMA STANDARDS, AND WITH RECOGNIZED INDUSTRY PRACTICES TO ENSURE THAT LIGHTING FIXTURES FULFILL REQUIREMENTS.

4. FURNISH STOCK OF SPARE LAMPS AMOUNTING TO 10% (BUT NOT LESS THAN 2 LAMPS) OF EACH TYPE AND SIZE LAMP USED IN EACH TYPE FIXTURE. DELIVER REPLACEMENT STOCK TO SITE OR AS DIRECTED BY OWNER.

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CLIENT : SMOKING CARDINALS, LLC
1113 CARRIE LYNN DRIVE
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ELECTRICAL SPECIFICATIONS

SHEET NUMBER:

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JLLA PROJECT NUMBER:
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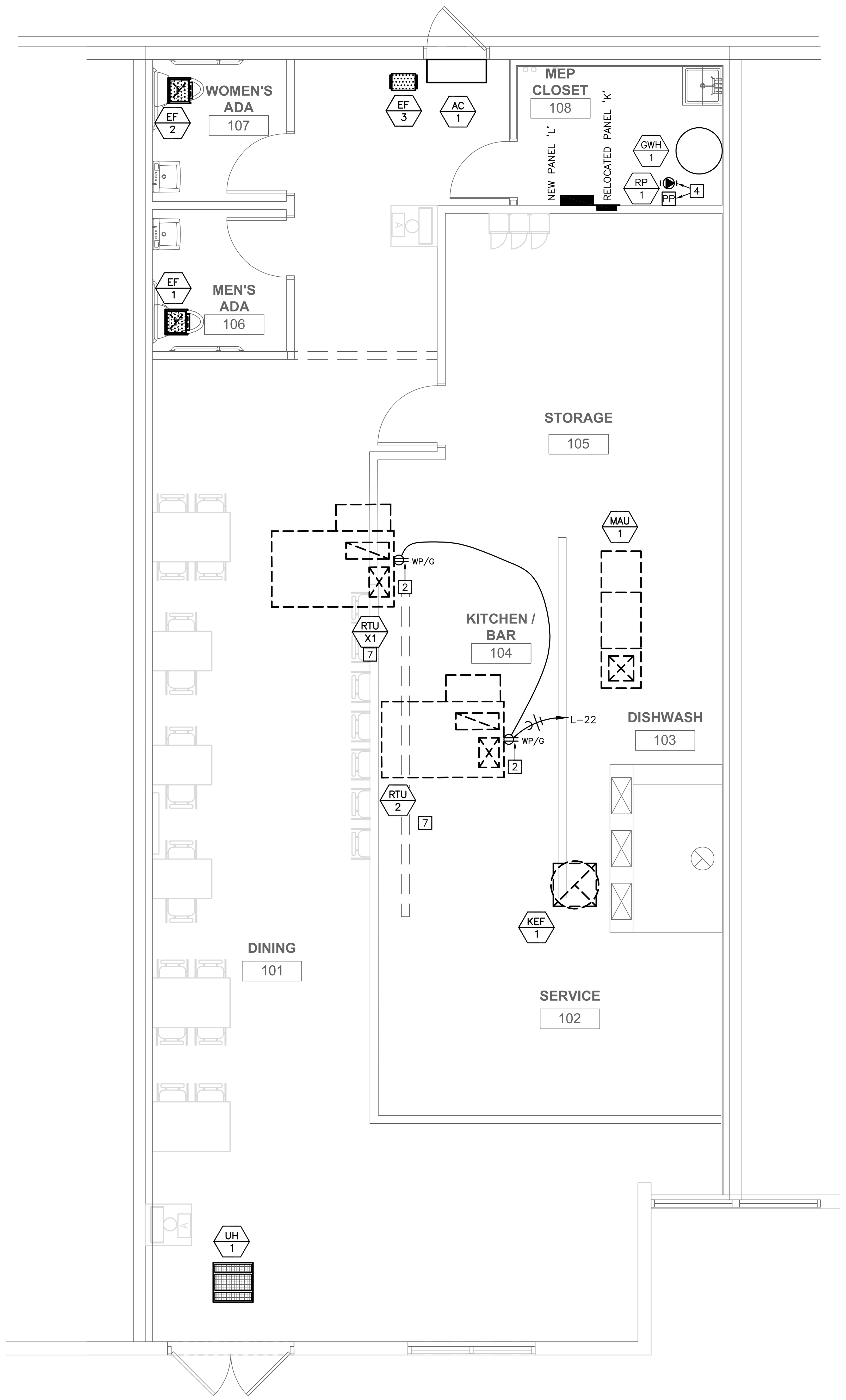
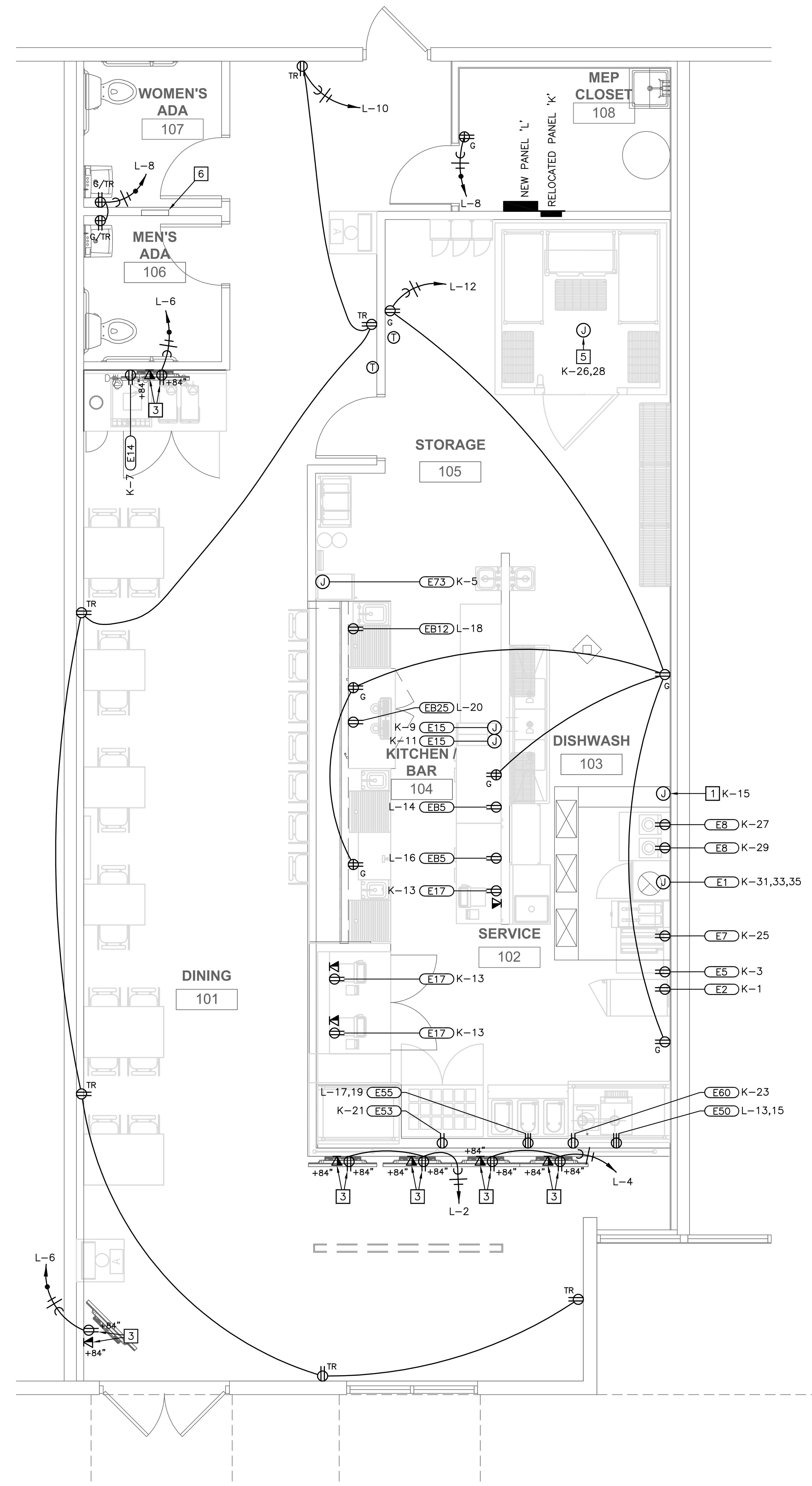


02 ELECTRICAL MECHANICAL POWER PLAN
1/4"=1'-0"



01 ELECTRICAL POWER PLAN
1/4"=1'-0"

NORTH
TRUE

POWER PLAN KEYNOTES

1. MAKE FINAL CONNECTION TO HOOD CONTROL PANEL. REFER TO ACCUREX DRAWINGS FOR MORE INFORMATION. MAKE ALL CONNECTIONS AS NOTED ON ACCUREX DRAWINGS.
2. PROVIDE WEATHERPROOF SERVICE RECEPTACLE FOR MECHANICAL EQUIPMENT. MOUNT ON NON-REMOVABLE PANEL OF EQUIPMENT.
3. POWER AND DATA FOR TELEVISION. CONFIRM EXACT MOUNTING LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
4. RE: EQUIPMENT FEEDER SCHEDULE FOR RP-1 CONTROLS.
5. MAKE FINAL CONNECTION TO WALK-IN COOLER EVAPORATOR/CONDENSOR. CONFIRM EXACT REQUIREMENTS WITH COOLER PROVIDER PRIOR TO ROUGH-IN.
6. APPROXIMATE LOCATION OF EXISTING TO BE RELOCATED PANELBOARD 'K'.
7. ROUTE DUCT SMOKE DETECTORS TO L-23.

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ELECTRICAL POWER PLANS

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LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER & CATALOG NUMBER	LAMPS & BALLAST	MOUNTING	VOLTS	WATTS	REMARKS
A	LED TRACK HEAD	CONTECH: CTL8070F3D-B	LED INCLUDED	TRACK	120	9	
B	6" LED RECESSED CAN FIXTURE	CONTECH: K6ICR235KCMVDW/CTR3002-CLR	LED INCLUDED	CEILING	120	14	
C	2'X4' LED LAY-IN	LITHONIA: 2TL4 60L RW A12 EZ1 LP835	LED INCLUDED	CEILING	UNV	47	
CE	2'X4' LED LAY-IN	LITHONIA: 2TL4 60L RW A12 EZ1 LP835 E10WLCP	LED INCLUDED	CEILING	UNV	47	2
T	TRACK SYSTEM	CONTECH: LTX-B	–	CEILING	120	–	3
EM	EMERGENCY BUG-EYE FIXTURE	LITHONIA: ELM4L B	LED INCLUDED	CEILING/WALL	UNV	3	2
X	EXIT SIGN	LITHONIA: LHQM LED B G	LED INCLUDED	CEILING/WALL	UNV	4	1,2

LIGHTING FIXTURE GENERAL NOTES

A. LIGHT FIXTURES SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR.

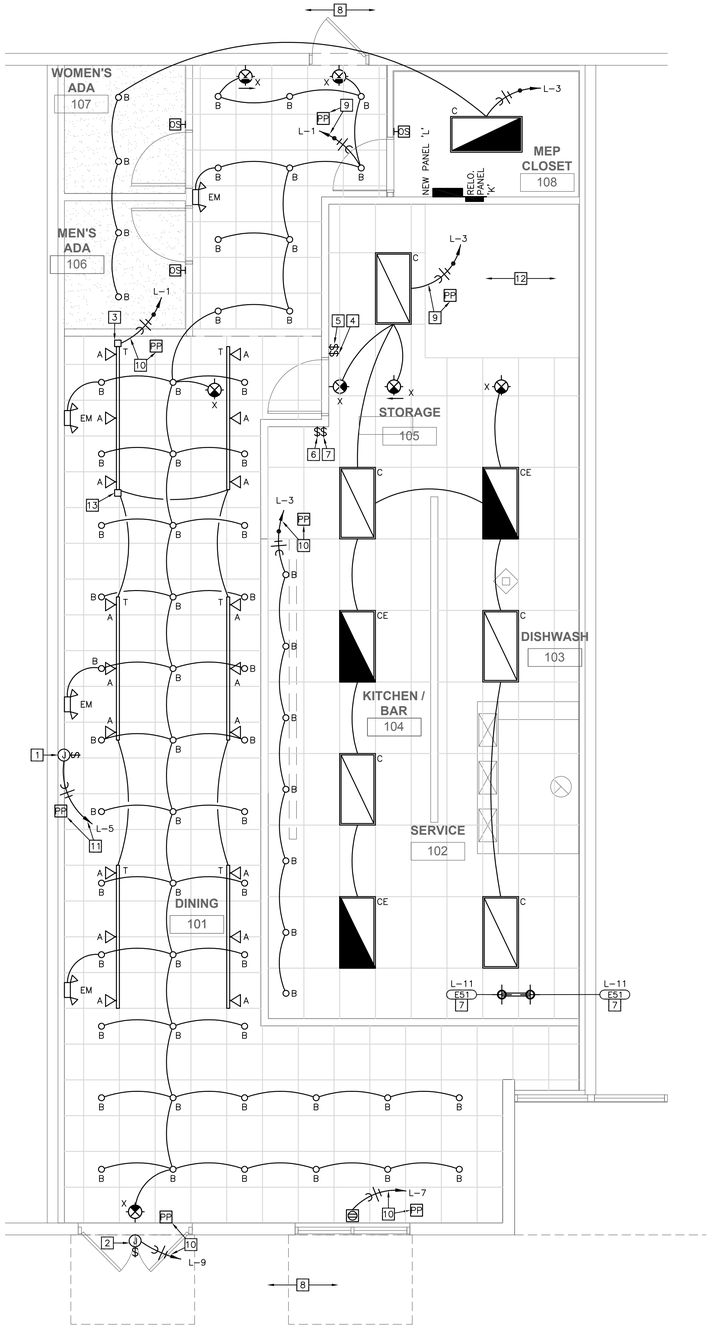
B. INSTALL LIGHT FIXTURES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE CODE REQUIREMENTS.

C. VERIFY EXACT MOUNTING HEIGHT AND FINISH OF LIGHTING FIXTURES WITH ARCHITECT PRIOR TO PLACING ORDER OR COMMENCING ROUGH-IN.

D. PROVIDE AN UN-SWITCHED HOT LEG TO ALL EMERGENCY BATTERY PACKS.

LIGHT FIXTURE SCHEDULE REMARKS

1. PROVIDE EXIT SIGNS WITH ARROWS AND FACE CONFIGURATION AS INDICATED ON DRAWINGS. ALL SINGLE FACE 'EDGE-LIT' EXIT SIGNS SHALL BE PROVIDED WITH MIRRORED BACKING. PROVIDE BATTERY BACK-UP TO OPERATE MINIMUM 90 MINUTES.
2. FIXTURE PROVIDED WITH 90 MINUTE BATTERY BACK-UP.
3. PROVIDE ALL PARTS AND PIECES AS NEEDED FOR A COMPLETE AND OPERATIONAL SYSTEM. VERIFY TRACK LENGTHS WITH ARCHITECT DRAWINGS PRIOR TO ORDERING.



01 ELECTRICAL LIGHTING PLAN

1/4"=1'-0"

LIGHTING PLAN KEYNOTES

1. PROVIDE JUNCTION BOX AND 1P, 30A TOGGLE SWITCH AT +84" A.F.F. FOR 'D' SIGNAGE. COORDINATE EXACT LOCATION AND ON/OFF TIME SETTINGS WITH OWNER PRIOR TO INSTALLATION.
2. PROVIDE WEATHERPROOF JUNCTION BOX AND 1P, 30A TOGGLE SWITCH FOR EXTERIOR SIGNAGE. COORDINATE EXACT LOCATION AND ON/OFF TIME SETTINGS WITH OWNER PRIOR TO INSTALLATION.
3. PROVIDE CONTECH LA-23T-R-B REG2-B 2A END FEED CURRENT LIMITER.
4. PROVIDE ACUITY CONTROLS nDTC BK (OR EQUAL) DIGITAL TIMECLOCK WITH TOUCH SCREEN. PROVIDE ALL LOW VOLTAGE WIRE AS REQUIRED TO CONNECT DEVICE WITH OTHER LIGHTING CONTROL DEVICES. CIRCUIT TO L-21.
5. PROVIDE (2) ACUITY CONTROLS nPODM DX BK (OR EQUAL) LOW VOLTAGE SWITCHES. (1) SWITCH TO CONTROL THE KITCHEN GENERAL (TYPE 'C'/'CE') LIGHTING AND (1) SWITCH TO CONTROL THE DINING AREA GENERAL (TYPE 'B') LIGHTING. PROVIDE ALL LOW VOLTAGE WIRE AS REQUIRED TO CONNECT DEVICE WITH OTHER LIGHTING CONTROL DEVICES.
6. PROVIDE (2) ACUITY CONTROLS nPODM BK (OR EQUAL) LOW VOLTAGE SWITCHES. (1) SWITCH TO CONTROL THE KITCHEN ACCENT (TYPE 'B') LIGHTING AND (1) SWITCH TO CONTROL THE DINING AREA TRACK (TYPE 'A'/'T') LIGHTING. PROVIDE ALL LOW VOLTAGE WIRE AS REQUIRED TO CONNECT DEVICE WITH OTHER LIGHTING CONTROL DEVICES.
7. ROUTE HEAT LAMPS THROUGH TOGGLE SWITCH FOR MANUAL ON/OFF CONTROL.
8. ALL EXTERIOR NORMAL AND EMERGENCY LIGHTING IS BY OTHERS.
9. PROVIDE ACUITY CONTROLS nPP16 D EFP 0-10V DIMMING POWER PACK TO CONTROL LIGHTING CIRCUIT INDICATED. POWER PACK TO BE LOCATED IN AN ACCESSIBLE LOCATION. PROVIDE ALL LOW VOLTAGE WIRE AS REQUIRED TO CONNECT DEVICE WITH OTHER LIGHTING CONTROL DEVICES.
10. PROVIDE ACUITY CONTROLS nSP5 PCD ELV 120 ELV/TRIAC DIMMING POWER PACK TO CONTROL LIGHTING CIRCUIT INDICATED. POWER PACK TO BE LOCATED IN AN ACCESSIBLE LOCATION. PROVIDE ALL LOW VOLTAGE WIRE AS REQUIRED TO CONNECT DEVICE WITH OTHER LIGHTING CONTROL DEVICES.
11. PROVIDE ACUITY CONTROLS nPP16 EFP SWITCHING POWER PACK TO CONTROL LIGHTING CIRCUIT INDICATED. POWER PACK TO BE LOCATED IN AN ACCESSIBLE LOCATION. PROVIDE ALL LOW VOLTAGE WIRE AS REQUIRED TO CONNECT DEVICE WITH OTHER LIGHTING CONTROL DEVICES.
12. LIGHTING IN WALK-IN COOLER IS INTEGRAL TO EQUIPMENT. CONFIRM ALL REQUIREMENTS WITH WALK-IN COOLER MANUFACTURER PRIOR TO ROUGH-IN. CIRCUIT K-30 RESERVED FOR WALK-IN COOLER LIGHTING.
13. PROVIDE TRACK END FEED AT END OF TRACK AND ROUTE ALL OTHER TRACK LENGTHS THROUGH THIS CIRCUIT FOR TRACK LIGHTING CONTROLS.

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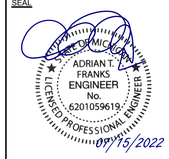

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ELECTRICAL LIGHTING PLAN

SHEET NUMBER:

E1.1

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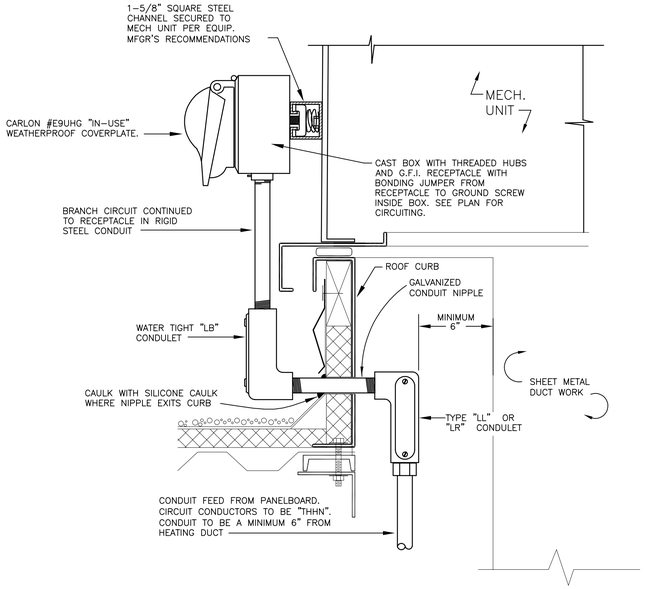
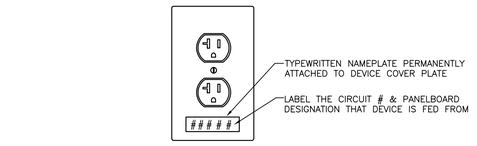
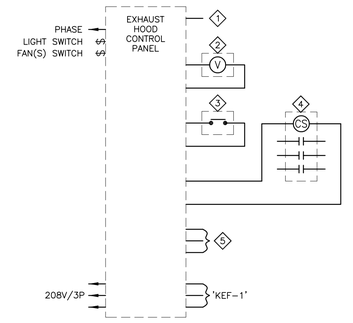


04 CONVENIENCE RECEPTACLE MOUNTING-ROOF TOP UNITS
NOT TO SCALE



NOTE: THIS DETAIL SHALL APPLY TO ALL RECEPTACLES

01 RECEPTACLE LABELING DETAIL
NOT TO SCALE



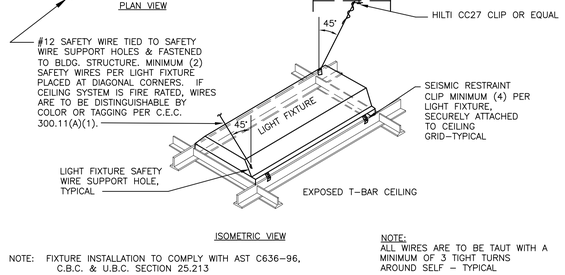
DETAIL CODED NOTES:

1. PROVIDE FIELD WIRING TO HOOD TEMPERATURE SENSORS PER MANUFACTURER'S SPECIFICATIONS.
2. ELECTRICALLY OPERATED GAS VALVE FOR COOKING EQUIPMENT BY OTHERS (IF REQUIRED).
3. FIRE SYSTEM MICRO SWITCH, OPENS WHEN FIRE SYSTEM DISCHARGES.
4. 60A/8P CONTACTOR WITH 120V COIL FOR ELECTRICAL EQUIPMENT UNDER HOOD (VERIFY LOCATION IN FIELD WITH OWNER)
5. PROVIDE ALL 120V AND LOW VOLTAGE CONNECTIONS BETWEEN HOOD CONTROL PANEL AND FANS. SEE HOOD MANUFACTURER WIRING DIAGRAMS FOR WIRING REQUIREMENTS.

DETAIL GENERAL NOTES:

A. REFERENCE MECHANICAL DRAWINGS FOR HOOD MANUFACTURER DETAILS AND WIRING DIAGRAMS.
B. INTERLOCK WIRING FOR MOTOR STARTER FURNISHED WITH HOOD.
C. INTERLOCK WIRING FOR GAS VALVE BY ELECTRICAL CONTRACTOR.
D. COORDINATE EXACT QUANTITY OF CONTACTOR POLES WITH PANEL SCHEDULES.
E. MAKE FINAL CONNECTIONS BETWEEN TEMPERATURE SENSOR INSTALLED IN HOOD AND HOOD CONTROL PANEL. REFER TO HOOD DRAWING FOR ADDITIONAL INFORMATION.
F. REFER TO ELECTRICAL PANEL SCHEDULES FOR PANEL CONNECTIONS.

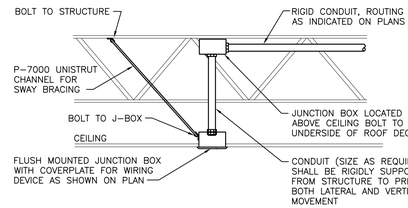
02 EXHAUST HOOD SHUT-DOWN WIRING DIAGRAM (HCP)
NOT TO SCALE



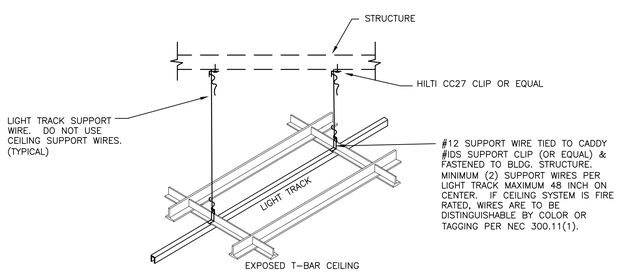
NOTE: FIXTURE INSTALLATION TO COMPLY WITH AST C636-96, C.B.C. & U.B.C. SECTION 25.213

NOTE:
ALL WIRES ARE TO BE TAUT WITH A MINIMUM OF 3 TIGHT TURNS AROUND SELF - TYPICAL

05 RECESSED LIGHTING FIXTURE SUPPORT DETAIL
NOT TO SCALE



03 CEILING FLUSH MOUNTED RECEPTACLE DETAIL
NOT TO SCALE



06 LIGHT TRACK SUPPORT DETAIL
NOT TO SCALE

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ELECTRICAL DETAILS

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EQUIPMENT FEEDER SCHEDULE

EQUIPMENT MARK	VOLTAGE–PHASE	PANEL – CIRCUIT(S)	MOCP	FEEDER		DISCONNECT					REMARKS
				CONDUCTOR & GROUND	PIPE	PROVIDER	AMPERAGE	POLES	FUSES	NEMA	
AC–1	208V–3P	K–14,16,18	30A	(3)#10 & (1)#10G	3/4"	INTEGRAL	–	–	NF	–	–
EF–1	120V–1P	L–3	20A	(2)#12 & (1)#12G	3/4"	INTEGRAL	–	–	NF	–	1
EF–2	120V–1P	L–3	20A	(2)#12 & (1)#12G	3/4"	INTEGRAL	–	–	NF	–	1
EF–3	120V–1P	L–3	20A	(2)#12 & (1)#12G	3/4"	INTEGRAL	–	–	NF	–	1
GWH–1	120V–1P	K–17	20A	(2)#12 & (1)#12G	3/4"	CONTRACTOR	30A	2	NF	1	–
KEF–1	208V–3P	K–38,40,42	15A	(3)#12 & (1)#12G	3/4"	INTEGRAL	–	–	NF	–	4
MAU–1	208V–3P	K–32,34,36	15A	(3)#12 & (1)#12G	3/4"	INTEGRAL	–	–	NF	–	2
RP–1	120V–1P	K–19	20A	(2)#12 & (1)#12G	3/4"	CONTRACTOR	30A	2	NF	1	3
RTU–X1	208V–3P	K–8,10,12	40A	(3)#8 & (1)#10G	3/4"	INTEGRAL	–	–	NF	–	5
RTU–2	208V–3P	K–2,4,6	45A	(3)#8 & (1)#10G	3/4"	INTEGRAL	–	–	NF	–	–
UH–1	208V–3P	K–20,22,24	30A	(3)#10 & (1)#10G	3/4"	INTEGRAL	–	–	NF	–	–

EQUIPMENT FEEDER GENERAL NOTES

A. DISCONNECT SWITCHES FOR 120V OR 277V EQUIPMENT UNDER 30 AMPS SHALL BE MOTOR RATED TOGGLE SWITCHES.

B. CONTRACTOR IS RESPONSIBLE FOR ALL FINAL CONNECTIONS TO EQUIPMENT.

C. COORDINATE EXACT ROUGH–IN LOCATIONS PRIOR TO START OF CONSTRUCTION.

D. ALL MULTI–VOLT DISCONNECT SWITCHES PROVIDED BY THIS CONTRACTOR SHALL COME WITH A NEUTRAL AND GROUND LUG KIT.

EQUIPMENT FEEDER REMARKS

1. CONNECT EXHAUST FAN TO LIGHTING CONTROL SO FAN WILL AUTOMATICALLY ENERGIZE WHEN LIGHTS ARE ACTIVATED. PROVIDE ADDITIONAL RELAY AS REQUIRED BY EQUIPMENT MANUFACTURER.
2. PROVIDE CONTROL WIRE FROM EQUIPMENT TO HOOD CONTROL PANEL FOR EQUIPMENT CONTROL. SEE ACCUREX DRAWINGS FOR MORE INFORMATION.
3. PROVIDE ACUITY CONTROLS NPP16 EFP SWITCHING POWER PACK TO CONTROL EQUIPMENT INDICATED. POWER PACK TO BE LOCATED IN AN ACCESSIBLE LOCATION. PROVIDE ALL LOW VOLTAGE WIRE AS REQUIRED TO CONNECT DEVICE WITH OTHER LIGHTING CONTROL DEVICES.
4. ROUTE EQUIPMENT THROUGH HOOD CONTROL PANEL. SEE ACCUREX DRAWINGS FOR MORE INFORMATION.
5. EQUIPMENT IS EXISTING TO REMAIN. CONFIRM ALL REQUIREMENTS WITH MECHANICAL CONTRACTOR.

PANEL: K — LOCATION: MEP ROOM — NEMA ENCLOSURE: 1
SYSTEM: 208/120V., 3P,4W — MAINS: 200A MLO — CABINET MOUNTING: RECESSED
FEEDER: SEE RISER DIAGRAM — LUGS: TOP
OPTIONS: RELOCATE PANELBOARD — AIC RATING: 10,000

LOAD DESCRIPTION	BKR SIZE	BKR POLE	NOTE	WATTS	CCT NO.	PHASE	CCT NO.	WATTS	NOTE	BKR POLE	BKR SIZE	LOAD DESCRIPTION
E2 - MOBILE HEATED UNIT	20	1	N/G	1,920	1	A	2	2,882				
E5 - UNDER COUNTER FREEZER	20	1	N/G	216	3	B	4	2,882	N	3	45	RTU-2
E73 - NUGGET ICE MAKER	20	1	RE	1,548	5	C	6	2,882				
E14 - BEVERAGE DISP.	20	1	N/G	360	7	A	8	2,702				
E15 - TEA BREWER	20	1	RE	1,692	9	B	10	2,702	*EX*	*3*	*40*	*RTU-X1*
E15 - TEA BREWER	20	1	N	1,692	11	C	12	2,702				
E17 - POS SYSTEM	20	1	N/G	500	13	A	14	2,704				
HOOD CONTROL PANEL	20	1	N/LO	200	15	B	16	2,704	N	3	30	AC-1
GWH-1	20	1	N	240	17	C	18	2,704				
RP-1	20	1	N	160	19	A	20	2,500				
E53 - COLD WELL UNIT, DROP-IN	20	1	N/G	660	21	B	22	2,500	N	3	30	UH-1
E60 - PRICE COMPUTING SCALE	20	1	N/G	100	23	C	24	2,500				
E7 - FRENCH FRY WARMER	20	1	N/G	756	25	A	26	1,300	N	2	20	WALK-IN COOLER POWER
E8 - CT INDUCTION RANGE	20	1	N/G	1,800	27	B	28	1,300				
E8 - CT INDUCTION RANGE	20	1	N/G	1,800	29	C	30	200	N	1	20	WALK-IN COOLER LTG
				7,325	31	A	32	1,069				
E1 - COMBI ELECTRIC OVEN	80	3	N/G	7,325	33	B	34	1,069	N	3	15	MAU-1
				7,325	35	C	36	1,069				
				6,310	37	A	38	576				
PANEL L SUB-FEED	60	3	N	5,978	39	B	40	576	N	3	15	KEF-1
				5,232	41	C	42	576				

PHASE A : 31,065 W
PHASE B : 31,605 W
PHASE C : 30,571 W

CONNECTED	DEMAND
93,240 W	71,110 W
259 A	197 A

Y:_Projects\Active\2022\01202218.02\01202218.02.Calcs and Support\01202218.02.f

PANEL: L — LOCATION: MEP ROOM — NEMA ENCLOSURE: 1
SYSTEM: 208/120V., 3P,4W — MAINS: 60A MLO — CABINET MOUNTING: SURFACE
FEEDER: SEE RISER DIAGRAM — LUGS: TOP
OPTIONS: NEW PANELBOARD — AIC RATING: 10,000

LOAD DESCRIPTION	BKR SIZE	BKR POLE	NOTE	WATTS	CCT NO.	PHASE	CCT NO.	WATTS	NOTE	BKR POLE	BKR SIZE	LOAD DESCRIPTION
DINING LTG	20	1		968	1	A	2	500		1	20	TV DISPLAYS
KIT/BATH/MECH TLG/EF-1,2,3	20	1		624	3	B	4	500		1	20	TV DISPLAYS
D' SIGNAGE	20	1		1,200	5	C	6	500		1	20	TV DISPLAYS
SHOW WINDOW RCPT	20	1		180	7	A	8	580		1	20	RESTROOM RCPT
EXTERIOR SIGNAGE	20	1		1,200	9	B	10	1,080		1	20	DINING GEN. RCPT
E51 - HEAT LAMP	20	1		480	11	C	12	1,080		1	20	KITCHEN GEN. RCPT
E50 - TOASTER, CONTACT GRILL	20	2	G	1,394	13	A	14	720	G	1	20	EB5 - BACK BAR CABINET, FRIDGE
				1,394	15	B	16	720	G	1	20	EB5 - BACK BAR CABINET, FRIDGE
E55 - HOT WELL UNIT, DROP-IN	20	2	G	1,248	17	C	18	624	G	1	20	EB12 - GLASS FROSTER
				1,248	19	A	20	720	G	1	20	EB25 - DRAFT BEER COOLER
LIGHTING CONTROLS	20	1	LO	100	21	B	22	360		1	20	ROOFTOP RCPT
RTU DUCT SMOKE DETECT.	20	1	LO	100	23	C	24					
					25	A	26					
					27	B	28					
FULLY BUSSED SPACE					29	C	30					FULLY BUSSED SPACE

PHASE A : 6,310 W
PHASE B : 5,978 W
PHASE C : 5,232 W

CONNECTED	DEMAND
17,520 W	15,551 W
49 A	43 A

Y:_Projects\Active\2022\01202218.02\01202218.02.Calcs and Support\01202218.02.f

PANEL SCHEDULE NOTES

General Notes:	
	CIRCUITS *SHADED AND ITALICIZED* ARE EXISTING TO REMAIN.
	CONTRACTOR TO FURNISH TWO "HANDLE PADLOCK ATTACHMENTS" FOR CIRCUIT BREAKERS. ATTACHMENT PIECES TO BE PROVIDED TO THE OWNER OR TO BE INSTALLED IN THE PANELBOARD FOR EASY ACCESS BY AN ELECTRICAL CONTRACTOR PERFORMING MAINTENANCE ON ELECTRICAL EQUIPMENT REQUIRING A DISCONNECTING MEANS, CAPABLE OF BEING PADLOCKED.
	BALANCE PANELS WITHIN 10% PHASE TO PHASE.
Circuit Key Notes:	
LO	HANDLE LOCK "OFF/ON" CLAMP DEVICE
RE	RE-USE EXISTING BREAKER
EX	EXISTING BREAKER TO BE REUSED FOR NEW CONSTRUCTION
G	GROUND FAULT CIRCUIT INTERUPTING BREAKER
N	PROVIDE NEW BREAKER IN EXISTING PANELBOARD

KITCHEN EQUIPMENT SCHEDULE

EQUIPMENT MARK	ITEM DESCRIPTION	VOLTAGE–PHASE	LOAD (A)	TYPE OF CONNECTION	HEIGHT (AFF)	FEEDER		REMARKS
						CONDUCTOR & GROUND	PIPE	
E1	COMBI ELECTRIC OVEN	208V–3P	61A	HARDWIRED	VERIFY	(3)#4 & (1)#8G	1–1/4"	––
E2	MOBILE HEATED UNIT	120V–1P	18.3	NEMA 5–20	VERIFY	(2)#12 & (1)#12G	3/4"	––
E5	UNDER COUNTER FREEZER	120V–1P	1.8	NEMA 5–20	VERIFY	(2)#12 & (1)#12G	3/4"	––
E7	FRENCH FRY WARMER	120V–1P	6.3	NEMA 5–20	VERIFY	(2)#12 & (1)#12G	3/4"	––
E8	COUNTERTOP INDUCTION RANGE	120V–1P	15	NEMA 5–20	VERIFY	(2)#12 & (1)#12G	3/4"	––
E13	GLASS DOOR MERCHANDISER	120V–1P	3.3	NEMA 5–20	VERIFY	(2)#12 & (1)#12G	3/4"	––
E14	BEVERAGE DISPENSER (8 VALVES)	120V–1P	3	NEMA 5–20	VERIFY	(2)#12 & (1)#12G	3/4"	––
E15	TEA BREWER	120V–1P	14.1	HARDWIRED	VERIFY	(2)#12 & (1)#12G	3/4"	––
E17	POS SYSTEM	120V–1P	1	NEMA 5–20	VERIFY	(2)#12 & (1)#12G	3/4"	––
E30	REACH–IN COOLER	120V–1P	2.8	NEMA 5–20	VERIFY	(2)#12 & (1)#12G	3/4"	––
E31	REACH–IN FREEZER	120V–1P	6.3	NEMA 5–20	VERIFY	(2)#12 & (1)#12G	3/4"	––
E50	TOASTER, CONTACT GRILL, CONVEYOR	208V–1P	13.4	NEMA 6–20	VERIFY	(2)#12 & (1)#12G	3/4"	––
E51	DECORATIVE HEAT LAMPS (COPPER)	120V–1P	2	HARDWIRED	VERIFY	(2)#12 & (1)#12G	3/4"	––
E53	COLD WELL UNIT, DROP–IN	120V–1P	5.5	NEMA 5–20	VERIFY	(2)#12 & (1)#12G	3/4"	––
E55	HOT WELL UNIT, DROP–IN	208V–1P	12	NEMA 6–20	VERIFY	(2)#12 & (1)#12G	3/4"	––
E60	PRICE COMPUTING SCALE	120V–1P	0.1	NEMA 5–20	VERIFY	(2)#12 & (1)#12G	3/4"	––
E73	NUGGET ICE MAKER	120V–1P	12.9	HARDWIRED	VERIFY	(2)#12 & (1)#12G	3/4"	––
EB5	BACK BAR CABINET, REFRIGERATED	120V–1P	6	NEMA 5–20	VERIFY	(2)#12 & (1)#12G	3/4"	––
EB12	GLASS FROSTER	120V–1P	5.2	NEMA 5–20	VERIFY	(2)#12 & (1)#12G	3/4"	––
EB25	DRAFT BEER COOLER	120V–1P	6	NEMA 5–20	VERIFY	(2)#12 & (1)#12G	3/4"	––

KITCHEN EQUIPMENT GENERAL NOTES

A. MAKE FINAL CONNECTIONS TO KITCHEN EQUIPMENT.

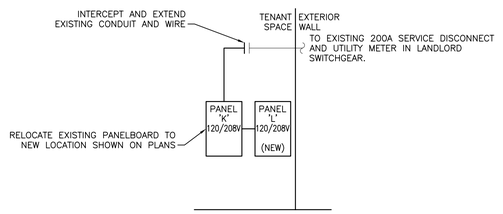
B. FOR ALL HARDWIRED CONNECTIONS:
B.A. SHALL BE MADE WITH SEAL–TIGHT FLEXIBLE METAL CONDUIT WITH INSULATED GROUND WIRE INSTALLED WITH PHASE AND NEUTRAL CONDUCTORS. GROUND WIRE SHALL BE BONDED AT BOTH ENDS.
B.B. PROVIDE A LOCK–OUT BREAKER ATTACHMENT (FOR EACH PIECE OF EQUIPMENT) FOR USE WHEN EQUIPMENT IS BEING SERVICED.

C. CONTRACTOR TO VERIFY ALL KITCHEN EQUIPMENT CONNECTIONS (SCHEDULED AND OWNER PROVIDED) PRIOR TO ROUGH–IN OF CONDUITS AND BRANCH–CIRCUITS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEERS ATTENTION.

D. THE FOLLOWING KITCHEN RECEPTACLES SHALL HAVE GFI PROTECTION BY MEANS OF BREAKERS OR SEPARATE UL 943C DEVICES:
D.A. 120V AND 208V, SINGLE–PHASE, RATED LESS THAN 50A.
D.B. 208V THREE–PHASE, RATED LESS THAN 100A.

FEEDER SCHEDULE:

EQUIPMENT MARK	RATING	FEEDER				REMARKS
		SETS	CONDUCTORS AND GROUND	PIPE	MATERIAL	
L	60A	1	(3)#6 & (1)#10G	1"	COPPER	–
EXISTING	200A	1	(3)#3/0 & (1)#6G	2"	COPPER	CONFIRM EXACT SIZE IN FIELD



01 ELECTRICAL ONE-LINE
N.T.S.

ELECTRICAL SERVICE LOAD SUMMARY

LOAD DESCRIPTION	CONNECTED WATTAGE	DEMAND FACTOR	DEMAND WATTAGE
LIGHTING	4,292	125%	5,365
TRACK LIGHTING ***	0	2 A @ 120 V	240
RECEPTACLES	4,780	1ST 10KW @ 100% REMAINING @ 50%	4,780
KITCHEN EQUIPMENT	46,367	** UP TO 65% 27 PC	30,139
CONTINUOUS MOTORS	12,213	125%	15,266
AIR CONDITIONING *	10,087	0% FULL A/C LOAD	0
HEATING *	15,000	100% FULL HEATING LOAD	15,000
CONTINUOUS WATER HEATER	240	125%	300
MISCELLANEOUS	260	100%	260
		TOTAL WATTS	71,350
		TOTAL AMPERAGE	198

NOTES:
* USE GREATER LOAD OF THE TWO CATEGORIES
** PIECES OF EQUIPMENT: 1-2 = 100%, 3 = 90%, 4 = 80%, 5 = 70%, 6 AND MORE = 65%
*** SUM OF VA RATINGS OF TRACK CURRENT LIMITING DEVICES

EXISTING ELECTRICAL SERVICE **200 AMPS**

JLL Architecture, LLC
200 East Randolph Drive
Chicago, IL 60601

51 West Third St, # 201
Tempe, AZ 85286
tel +1 480 626 6304
fax +1 480 401 3602

LBI, LLC
LBI, LLC
210 W 20th Street, Suite 100
Kansas City, MO 64108
T 816-997-9901
F 816-997-9902
DialectEng.com

CORPORATE:
DICKEY'S BARBECUE RESTAURANT, INC.
4514 COLE AVENUE, SUITE 1100
DALLAS, TX 75205
972.248.9899

SEAL
STATE OF MICHIGAN
ADRIAN FRANKS
ENGINEER
No. 6201059619
LICENSED PROFESSIONAL ENGINEER
07/15/2022

DICKEY'S - SAGINAW
2903 PIERCE ROAD
SUITE 109
SAGINAW, MI 48604

CLIENT : SMOKING CARDINALS, LLC
1113 CARRIE LYNN DRIVE
SAGINAW, MI 48706

DICKEY'S BARBECUE PIT est. 1941

MI-2197

DATE	DESCRIPTION
07/13/22	ISSUED FOR PERMIT

△	DATE	DESCRIPTION
△		

SHEET TITLE
ELECTRICAL ONE-LINE AND PANEL SCHEDULES

SHEET NUMBER:
E3.0

JLLA PROJECT NUMBER:
DBQ-103

07/13/2022 - ISSUED FOR PERMIT

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BIDDING REQUIREMENTS, CONTRACT FORMS, AND CONDITIONS OF THE CONTRACT

SECTION 00100 - INSTRUCTIONS TO BIDDERS

1. AIA Document A701, latest Edition, "Instructions to Bidders" are included as part of these specifications as if herein reprinted in full.

   a. A copy of AIA A701, latest edition may be obtained from Owner, Architect, or directly from:
   The American Institute of Architects
   1735 New York Avenue,
   N.W. Washington, D.C. 20006.

2. Contractor shall utilize the following documents, latest edition, in the negotiation and execution of the project:

   a.AIA Document A701 – Instructions to Bidders
   b. AIA Document G702 – Application and Certificate for Payment
   c. AIA Document G703 – Continuation Sheet
   d. AIA Document G701 – Change Order
   e. AIA Document G705 – Certificates of Insurance
   f. AIA Document G706 – Contractor's Affidavit of Payment of Debts and Claims
   g. AIA Document A706 – Contractor's Affidavit of Release of Liens
   h. AIA Document A201 – General Conditions of the Contract for Construction
   i. AIA Document A101 – Owner Contractor Agreement Form – Stipulated Sum

SECTION 00120 - SUPPLEMENTARY INSTRUCTIONS TO BIDDERS

The following supplements modify, change, delete from, or add to the instructions to Bidders (AIA A701, latest Edition) Where any article of the instruction to Bidders is modified or any paragraph, sub–paragraph, or clause thereof is modified or deleted by these Supplemental Instructions the unaltered provisions of the article, paragraph, sub–paragraph, or clause shall remain in effect.

1. Article 1, Paragraph 1.8; add:

   Bidding is by invitation from the Owner, only.

2. Article 1, add Paragraph 1.10:

   1.10 The term "Architect" as used herein, shall be construed to mean the "Owner", as the Owner will administer the bidding procedures.

3. Article 3, Paragraph 3.1.1 delete and insert the following:

   Owner will provide each invited Bidder a complete set of electronic files (.pdf format) of the Bidding Documents. Bidding contractor will be responsible for printing and distribution.

4. Article 4, Paragraph 4.1.1 delete and insert the following:

   4.1.1 Bids shall be submitted on forms identical to the Bid Form provided by the Owner, one (1) original with original signature(s). Bids transmitted via facsimile or e–mail; provided they are received by the prescribed deadline, are acceptable. Originals shall be sent by overnight service for next day delivery.

5. Article 4, Paragraph 4.2:

   Delete this paragraph in it's entirety, as no bid security will be required

6.Article 4, Paragraph 4.4.1:

   The stipulated time period shall be construed as 120 calendar days.

7. Article 5, add Paragraph 5.3.3:

   5.3.3 Voluntary alternates, if offered by the Bidder, will not be considered in determining the lowest responsible Bid. However, the Owner reserves the right to accept or reject any or all voluntary alternates, prior to award of contract.

8. Article 6, Paragraph 6.2:

   Delete this paragraph in its entirety.

9. Article 7, Paragraph 7.1.1:

   Bond requirement will be an option reserved by the Owner.

10. Article 7, paragraph 7.2.2:

    Delete "unless otherwise provided," and substitute "unless otherwise acceptable to the Owner."

SECTION 00300 - BID FORM

1. The form of proposal will be furnished separately by the Owner.

SECTION 00700 - GENERAL CONDITIONS

1. AIA Document A201, Latest Edition, "General Conditions of the Contract for Construction" are included as part of these specifications same as if herein reprinted in full.

   a. A copy of AIA A201, may be obtained from Owner; Architect, or directly from:
   The American Institute of Architects
   1735 New York Avenue, N.W.
   Washington, D.C. 20006.

SECTION 00800 - SUPPLEMENTARY CONDITIONS

The following supplements, modify, change, delete from, or add to General Conditions (AIA A201), Where any article of the General Conditions is modified or any paragraph, sub–paragraph, or clause thereof is modified or deleted by these Supplemental Instructions, the unaltered provisions of the article, paragraph, sub–paragraph, or clause shall remain in effect.

1. Article 4, Paragraph 4.2.1: delete and substitute:

   4.2.1 All references used throughout these documents requiring the Architect to act, approve, observe or otherwise use his professional judgment regarding this project, will become the sole responsibility of the Owner, who may consult with the Architect on periodic basis as the Owner deems necessary to assure compliance with the Contract Documents.

2. Article 7, Paragraph 7.3.6 is further clarified as follows:

   When the Owner authorizes the Contractor to perform changes or additions involving extra labor and material, and if the Contractor is directed to proceed on the basis of the actual cost of labor and material by Change Order, the following allowances will be allowed for Overhead (including Bond and Insurances) & Profit:

   (1) For the Contractor: To be noted in the General Contractor's Bid submittal.

   (2) Extra work covered by unit prices as requested in the Bid Form, include Contractors overhead and profit.

   (3) Superintendents time shall not be included in T & M extra work.

3. Article 8, add Paragraph 8.3.4:

   8.3.4 The Contractor shall have no claim for an extension of time unless such time is stated on the face of a written Change Order and approved and accepted in writing by the Owner on such Change Order. Any attempted reservation by the Contractor or the right to subsequently claim any extension of time not stated on the face of a written Change Order approved and accepted by the Owner shall be null and void.

4. Article 9, Paragraph 9.3.1; add the following:

   Payment requests must be received by the Owner no later than the 26th day of each month, and must be accompanied by a lien waiver in full for each participating contractor, subcontractor, and supplier seeking payment. Owner will not be required to make any payment without the required lien waivers.

5. Article 9, Paragraph 9.4: Delete in its entirety.

6. Article 9, Paragraph 9.6.1: Delete and substitute:

   9.6.1 Upon receipt of Contractor's Application for Payment, Owner will make such payment to the Contractor within 15 days or as soon as practical thereafter.

7. Article 9, add Paragraphs 9.10.6 and 9.10.7:

   9.10.6 Before Owner issues final payment hereunder, the Contractor shall submit to the Owner; (a)an affidavit that all payroll and bills for material and equipment, and, other indebtedness connected with the work for which the Owner or its property might in any way be responsible, have been paid or otherwise satisfied, (b) the consent of surety to final payment and (c) if required by the Owner, other data establishing payment or satisfaction of all such obligations, such as receipts, releases and waivers of liens arising out of the Contract Documents, to the extent and in such form as may be designated by the Owner. If any Subcontractor and/or Material man refuses to furnish a release or waiver required by the Owner, the Contractor may furnish a bond, at it's expense, satisfactory to the Owner to indemnify the Owner against such lien. If any such lien remains unsatisfied after all payments are made, the Contractor shall refund to the Owner all monies that the Owner may be compelled to pay in discharging such lien, including, without limitation, all costs and reasonable attorneys' fees.

   9.10.7 All waivers and subordination agreements required hereunder shall be in the form acceptable to the Owner.

8. Article11, delete first paragraph of 11.1.1 beginning with 'The Contractor' ending with '…be liable', and substitute the following:

   11.1.1 Prior to the commencement of the Work, Contractor shall procure, and Contractor shall maintain, all insurance required under this Paragraph 11.1.1. Contractor shall require each Subcontractor to provide coverage adequate to protect Subcontractor and it's employees. If the terms of coverage of such policies are unacceptable to Owner, Contractor and/or subcontractor shall revise the coverage or obtain additional coverage as reasonably requested by Owner. Owner's approval of Contractor's and any Subcontractor's insurance shall not relieve or limit their liability under the Contract Documents. In the event of the failure of Contractor to furnish and maintain such insurance, then the Owner shall have the right, but not the obligation, to take out and maintain such insurance for and in the name of Contractor and Contractor shall pay the cost thereof and furnish all necessary information to permit the Owner to take out and maintain such insurance for the account of Contractor. Contractor shall not allow any Subcontractor to commence work on its subcontract until all insurances required of Subcontractor have been obtained. Contractor shall purchase and maintain such insurance as will protect it from claims set forth below which may arise out of or result from Contractors operations under the Contract Documents, whether such operations be by Contractor or by Subcontractor or by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable.

9. Article 11; delete paragraph 11.1.2 and substitute the following:

   11.1.2 The liability insurance purchased and maintained by Contractor pursuant to this paragraph and 11.1.1 shall include the types and be in the minimum amounts as follows:

   (a) Workman's Compensation

   (i) Workers' or workman's compensation – maximum permitted by statue, unlimited if permitted.

   (ii) – Employer's Liability – $1 million.

   (b) Comprehensive General Liability

   Bodily injury and property damage having a combined single limit of $2 Million and including the following coverage's:
   (i) Comprehensive Form
   (ii) Premises – Operations
   (ii) Explosion and Collapse Hazard
   (iv) Underground Hazard
   (v) Products – Completed Operations. Hazard (which must be maintained for 2 years commencing with issuances of the final Certificate of Payment)
   (vi) Contractual Insurance
   (vii) Broad Form Property Damage (extended to apply to completed operations)
   (viii) Independent Contractors
   (ix) Personal Injury (with employees and contractual exclusions deleted)

   (c) Automobile Liability (Comprehensive Form) insuring contractor for operations of all owned, hired, and non–owned vehicle limit of $2 Million.

   (d) Umbrella Excess Liability: $3 Million per occurrence / aggregate.

10. Article 11, paragraph 11.3:

    Delete all references to Owner furnished property insurance.

    The Owner shall furnish Builders Risk Insurance, including the perils of fire, extended coverage, vandalism, and malicious mischief in an amount of not less than 100% of the insurable value of all the work, and the coverage written on Builders Risk Coverage Form CP0020, Including Causes of Loss Basic Form CP1010 or Causes of Loss – Broad Form CP1020 or Causes of Loss – Special Form CP1030 or an acceptable inland Marine "All Risk" installation floater form, with a company authorized to do business in the state in which the project is located.

11. Article 12, add paragraph 12.2.2.1(a):

    12.2.2.1(a) If during the Contractors one (1) year warranty after completion the Owner requests that tests be performed to determine if corrections in the Work need to be made, the expense of such tests shall be borne by (a) the Owner, if the results of the tests indicate that no corrections are necessary, or (b) the Contractor, if the results of the test indicate that corrections are necessary.

12. Article 13, paragraph 13.6.1:

    13.6.1 Interest rate shall be ten percent (10%).

DIVISION 1 - GENERAL REQUIREMENTS

SECTION 01005 - ADMINISTRATIVE PROVISIONS

1. Work of this Contract comprises general construction, including site improvements, structural, plumbing, mechanical, and electrical for a Dickey's Restaurant; location as identified on the Contract Drawings.

2. Schedule the work to accommodate Owner's operations during the construction period.

3. Confine operations at the project site to areas permitted by law, ordinances, permits, and the Contract Documents and do not unreasonably encumber the site with any materials or equipment.

4. Cooperate and coordinate with other contractors as required in the General Conditions

5. Establish all grades, lines, and levels necessary for execution of work including location of property lines and bench marks shown on drawings.

   a. Verify all grades lines, levels and dimensions shown on the drawings and report any errors or inconsistencies in same to Owner for corrections before starting work.
   b. Protect all property pins, markers, and monuments from being disturbed. A registered land surveyor at Contractor's expense shall promptly replace disturbed pins, markers, or monuments.

6. Building permit fee, utility connection fees, as well as water and sewer tap and meter fees, shall be paid by Owner. Other fees, costs, taxes and sub–contractor permits, licenses shall be paid by General Contractor as part of base bid.

7. For products or execution requirements specified by association or trade standards, comply with requirements of the standard, except when more rigid requirements are specified or are required by applicable code.

   a. The date of the standard is that in effect as of the bid date, except when a specific date is specified.

8. Manufacturer's specifications, recommendations, instructions or other data referenced shall be construed as data contained in manufacturers printed publications current as of the bid date, except when a specific date is specified.

9. Partial Owner Occupancy: Owner reserves right to occupy and to place and install equipment as necessary in completed areas of building before Substantial Completion, provided such occupancy does not interfere with completion of Work.

   a. Such placing of equipment and partial occupancy shall not constitute acceptance of total Work.
   b. Owner or Owner's agent shall execute Certificate of Substantial Completion for each specific portion of Work to be occupied before Owner occupancy.
   c. General Contractor shall obtain Certificate of Occupancy from local building officials before Owner occupancy.
   d. Mechanical and Electrical Systems:
   i. Before partial Owner occupancy, mechanical and electrical systems shall be fully operational
   ii. Required inspections and tests shall have been successfully completed.
   e. On occupancy, Owner will provide operation and maintenance of mechanical and electrical systems in occupied portions of Building.

SECTION 01010 - WORK COVERED BY CONTRACT DOCUMENTS

1. The Contractor shall complete all Work as provided for in Contract Documents including Drawings and Specifications. Anything mentioned in the Specifications and not shown on the Drawings, or shown on the Drawings and not mentioned in the Specifications, shall be furnished and installed as if shown and mentioned in both. The Contractor shall furnish all materials or labor required to complete Work shown on the Drawings and called out in the Specification, to include labor and material requirements reasonably inferable therefrom as being necessary to complete the work, whether each and every single item necessary to completion is specified or detailed or not.

2. The organization of the Specifications into Divisions, Sections and Paragraphs and the arrangement of the Drawings are not intended to control the Contractor in dividing the Work among Subcontractors or to establish the limits and extent of work to be performed by a particular trade. The Contractor alone is responsible for the completion of the entire work as drawn and specified, complete in place and in functional or operating conditions. The division of the Specifications into sections and paragraphs is for convenience only and not for the purpose of limiting or restricting the performance of any portion of the Work to any particular trade.

SECTION 01015 - OWNER FURNISHED ITEMS AND EQUIPMENT

1. Owner retains the right to place and install, in coordination with Contractor's construction schedule, as many items and/or as much equipment as he may require during the progress of the Work, before completion of the various parts of the Work. This shall not in any way evidence completion of the Work or any portion thereof, nor shall it signify Owner's acceptance of the Work or any portion thereof. Refer to Responsibility List on the drawings for a more complete listing.

2. Categories of Items:

   a. By Owner: Items shown or noted "By Owner" on the drawings and/or in the specifications shall be furnished by Owner to Contractor for installation by Contractor as part of the construction contract. Contractor shall receive, to the extent of unloading at the job site as required, store and be responsible to the extent of carrying necessary insurance to cover items in case of theft, fire, loss, malicious damage and other miscellaneous damage. Included, but not inclusive, in this category are:

      1. Kitchen Exhaust Hood (Hoods) including Exhaust Fans, Motors, Starters, Heaters, Curbs and Fire Suppression System.

   b. Not In Contract (NIC): Items shown or noted "(NIC)" on the drawings and/or in the specifications shall be furnished and installed by Owner under separate contract, except as described hereinafter. The Contractor shall receive, unload as required, store, and be responsible to the extent of carrying necessary insurance to cover items in case of theft, fire, loss, malicious damage and other miscellaneous damage. Included, but not inclusive, in this category are:

      1.Kitchen equipment, including walk_in cooler/freezer equipment (coils, compressors, etc.) and beer cooler boxes. This equipment shall be furnished, assembled and set in place under separate contract, with final connection of gas, water, electricity and exhaust devices as shown on the Mechanical and Electrical drawings to be accomplished under the General Contract for Construction.
      2.All loose furnishings such as booths, table tops, chairs, stools, etc., and interior decor items.
      3. Audio system (to include monitor and speaker attachment, cable & pulling cable)
      4. Signs and Signage, (Owner installed, wired by Contractor)
      5. Telephone system
      6. POS System (includes cabling, registers and printers). General Contractor to provide conduit.
      7.Stainless steel fabrications including counters, wall panels, and corner guards, furnished and installed by Owners Food Service Contractor with final connections by Contractor.

3. Receipt of Items:

   a. During the course of construction, some deliveries of equipment and miscellaneous items will be made to the job site by common carrier. Contractor shall receive and inspect items for conformance to delivery ticket(s) and for damage. If during receipt any missing or damaged items are observed, Contractor shall:

      1. Make notation of any and all discrepancies on the delivery ticket(s).
      2. Call delivery carrier and advise him of the problem.
      3. Notify the Owner immediately.

4. Storage:

   a. Contractor, upon receipt of items furnished "By Owner", shall provide safe and secure storage and shall assume full responsibility for any damage or theft that may occur.

SECTION 01029 - CHANGE ORDER PROCEDURES

1. General: The General Conditions of the Contract for Construction, AIA Document A201, govern the work of this Section.

2.Proposal Request

   a.If the Owner considers a change to the Work, the Owner will issue a formal request for Contractor's proposal for changes to the Contract. The request shall include data identifying the project and these paragraphs:

   "You are requested to submit a detailed proposal response, within 10 days of the date of issuance of this request, covering the increase or decrease in price and/or any changes in the time for completion attributable to the following possible changes in the work of this contract."

   b.This request does not authorize contractor to proceed with the above possible changes. If contractor's proposal is acceptable to the Owner, a Change Order will be issued authorizing you to proceed.

3. Contractor Response: Respond with formal written proposal referencing Owner's request number, job name, date, specific items requested and indicate total amount of change imposed costs and construction time consideration for each request. Give each numbered request individual response. Do not lump two or more proposals on one response.

SECTION 01039 - COORDINATION

1. Notify the Owner in a timely fashion if a problem develops with the performance of the separate contractors.

2. Coordinate scheduling and work of the various trades to assure efficient and orderly sequence of installation of interdependent construction elements.

3. Verify the utility requirement characteristics of operating equipment are compatible with building utilities. Coordinate work of various sections having interdependent responsibilities for installing, connecting to, and placing in service such equipment.

4. Coordinate space requirements and installation of mechanical and electrical work, which are indicated diagrammatically on the architectural and engineering drawings. Follow routing shown for pipes, ducts, and conduit, as closely as practical. Place runs parallel with line of building. Utilize spaces efficiently to maximize accessibility for other installations, for maintenance, and for repairs.

5. Coordinate completion and clean–up of work of separate sections in preparation for substantial completion.

6. After Owner occupancy of premises, coordinate access to site for correction of defective work and work not in accordance with contract documents, to minimize disruption of Owner's activities.

SECTION 01070 - CUTTING AND PATCHING

1. Executing, cutting (including excavating), fitting or patching of work, required to:

   a. Make several parts fit properly.
   b. Uncover work to provide for installation of ill–timed work
   c. Remove and replace defective work.
   d. Remove and replace work not conforming to requirements of Contract Documents.
   e. Remove samples of installed work as specified for testing.

2. Execute cutting and patching by methods that will prevent damage to other work and will provide proper surfaces to receive installation of repairs and new work.

3. Employ original installer to perform cutting and patching for exposed finished surfaces.

4. Refinish entire surface as necessary to provide an even finish.

   a. Continuous surfaces: To nearest intersection.
   b. Assembly: Entire refinishing.

SECTION 01200 - PRECONSTRUCTION MEETING

1. Owner will administer pre–construction conference for execution of Owner–Contractor Agreement and exchange of preliminary submittals.

2. Owner will schedule meeting at project site for clarification of Contractor responsibilities in use of site and for review of administrative procedures.

3. Attendance: Job superintendent, representative of the Contractor's home office, major subcontractors and suppliers, Architect and Owner representative. Others as appropriate to agenda topics.

4. Suggested Agenda: Review progress schedule and adjustment thereto, delivery schedules, submittal, maintenance of quality standards, pending changes and substitution and ether items affecting progress of work.

5. Contractor shall schedule, organize and chair any subsequent Project Meeting during normal working hours.

SECTION 01300 - SUBMITTALS

1. Deliver submittals to Owner unless otherwise directed.

2. Identify submittals with Contractor's name, project name/location and date of submittal.

3. Make any corrections to the submittal required by Owner or Architect and resubmit until approved. Direct specific attention in writing to revisions on re–submittals other than the corrections requested by Architect on previous submittals.

4. Construction Schedule
   a. Within ten (10) days after execution of the Contract or the date of written notice to commence the work, whichever is earlier, submit three (3) copies of a detailed construction schedule for approval.
   b. Schedule shall graphically show the relationship and interdependence of all activities, necessary to fully complete the work and shall show the sequence in which each activity is to be accomplished. The detail of information shall be such that duration times of activities shall normally range from one (1) to fifteen (15) days.
   c. Schedule shall give description of each activity, show its duration in calendar days and reference its start and finish dates to calendar dates.

5. Shop Drawing and Samples
   a. Submit all drawings, diagrams, illustrations, schedules, performance charts, instructions, specifications and other product data illustrating portions of the work as required by the specification sections. Such submittals, whether or not referred to as shop drawings, shall comply with the requirements for shop drawings hereinafter prescribed. Unless otherwise noted in the specifications sections, submit a minimum of three (3) sets of shop drawings. Two (2) sets will be returned to Contractor unless otherwise requested.
   b. Unless the precise color and pattern is specifically specified in the specifications sections, and whenever a choice of color or pattern is available in a specified product, submit accurate color and pattern charts and samples for review and selections.
   c. Review, stamp with Contractor approval, sign and submit within thirty (30) days after execution of the Contract of the date of written notice to commence the work, whichever is earlier, all shop drawings and samples. Shop drawings or samples submitted without Contractor's approval stamp will be returned without review. Submit shop drawings and samples in an orderly sequence so as to cause no delay in the work of other contractors.
   d. Shop drawings and samples will be reviewed by Architect to determine in general if they are in compliance with the Contract Documents. Such approval shall not relieve Contractor of responsibility for any deviations from the requirements of the Contract Documents nor from the responsibility for errors or omissions in the shop drawings or samples.
   e. Do not commence any portion of the work until the submittal has been approved as prescribed herein. All such portions of the work shall be in accordance with approved shop drawings or samples.

6. Schedule of Values
   a. Submit a schedule of values for various portions of the work within ten (10) days after execution of the Contract or the date of written notice to commence the work, whichever is earlier. Show the amounts of the Contract Sum allocated to each portion of work, on AIA G702.

7. Certificate of Compliance
   a. Submit in duplicate, certificates of compliance for each product specified, prior to installation of the applicable product.
   b. Certificates of compliance shall include certified laboratory test reports, manufacturers certificates or other evidence sufficient to verify compliance with the products specified.

SECTION 01400 - QUALITY CONTROL

1. Perform work in the most workmanlike manner and according to best standard practices. All work shall be free from faults and defects in workmanship.

2. Contractor shall be solely responsible for quality control of the work and shall maintain quality control over suppliers, manufacturers, products, services, site conditions and workmanship, to produce work of specified quality.

3. Testing and inspection, where required by the specification sections, shall comply with the specific requirements of the applicable specification section and the general requirements contained herein.

4. All testing and inspection whether required by the specification section or by laws, ordinances, rules, regulations, codes or orders of any public authority having jurisdiction or whether performed by Contractor for quality control shall be at contractor's expense unless otherwise indicated in the Contract Documents.

5. Where specifications sections require testing or inspections by a testing laboratory, engage a reputable, independent testing laboratory specializing in the required services unless the testing or inspection is indicated as furnished by Owner. Testing laboratory shall be approved by the Owner.

6. Secure required certificates of testing, inspection or approval and promptly deliver to Owner.

7. Promptly replace or correct all work found not to be in compliance with the requirements of the Contract Documents and the requirements of any public authority having jurisdiction so as not to delay the work or the work of other contractors regardless of how such failure to comply may be revealed. Replacement and correction shall be expedited as required to maintain interim contract completion dates and the full completion date.

SECTION 01500 - TEMPORARY FACILITIES AND CONTROLS

1. Field Office: Provide on site office with job telephone and fax machine.

2. Toilet Facilities: Provide temporary toilet facilities for use by the contractor's employees, all subcontractors' employees and by employees of separate contractors. Facilities shall comply with all local requirements for temporary sanitary facilities.

3. Provide barriers and other precautions as necessary to protect adjacent properties outside the limits of this project from damage from the construction process. Special precautions shall be taken to avoid any damage to existing overhead and underground utilities owned or operated by the Owner or by public or private utility companies.

4. Provide dumpster for construction waste and waste from equipment and materials provided by Owner. Maintain areas free of waste materials, debris, and rubbish. Maintain site in a clean and orderly condition. Remove debris and rubbish from pipe chases, plenums, and other closed or remote spaces prior to enclosing the space. Broom and vacuum clean interior areas prior to start of surface finishing, and continue cleaning to eliminate dust. Remove waste materials, debris, and rubbish from site daily and dispose off–site.

5. Provide temporary water, storage tanks, piping, valves, fittings, hose and hose connections during construction and testing.

6. Provide, pay for and maintain wiring, fuses; disconnect switches, safety devices, junction boxes, panel boxes, ground fault protections, and transformer if required, in connection with use of temporary electrical service for lighting and power during construction. All items and installations are to conform to the requirements of the National Electric Code, and "Occupational Safety and Health Act of 1970." Temporary generators, if required, are to be included in the Contract Proposal if temporary electric service is not available.

   a.Minimum Service: One (1) 200 ampere temporary service distribution panel consisting of 120/240 volt, single phase, three wire service with branch wiring of sufficient capacity with fused switches for 120 volt lighting and small power tool outlets throughout the building. General lighting consist of 150 watt (minimum(lamps and waterproof sockets and power outlets consisting of 120 volt pendant type cord connectors for fractional horsepower electrical tools throughout the building.

7. Provide, pay for and maintain all temporary heating facilities required during the progress of the work to protect materials, finished work and equipment against injury from dampness and cold. Temporary heat shall be required when the outside temperature is low enough to damage or affect in any way the performance or quality of any product or material being stored in the building, in any temporary storage area, or any material incorporated into the work. Temporary heat shall also be required when the outside temperature is low enough to significantly slow or hamper the effectiveness of workmen on the job.

8. Provide security and facilities to protect the work and the Owner's operation from unauthorized entry, vandalism, or theft.

9. Provide operable fire extinguishing devices in well–marked, accessible locations distributed throughout the project in compliance with governing codes and ordinances.

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CORPORATE:

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4514 COLE AVENUE, SUITE 1100
DALLAS, TX 75205
972.248.9899

SEAL

DICKEY'S - SAGINAW
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SUITE 109
SAGINAW, MI 48604

CLIENT : SMOKING CARDINALS, LLC
1113 CARRIE LYNN DRIVE
SAGINAW, MI 48706

DICKEY'S BARBECUE PIT

MI-2197

DATE	DESCRIPTION
07/13/22	ISSUED FOR PERMIT

DATE	DESCRIPTION

SHEET TITLE
SPECIFICATIONS

SHEET NUMBER:
SP-1.0

JLLA PROJECT NUMBER:
DBQ-103

07/13/2022 - ISSUED FOR PERMIT

SECTION 01600 - MATERIALS AND EQUIPMENT

1. Where acceptable manufacturers, are listed in the specification sections, obtain materials and equipment in compliance with the requirements specified from one of the manufacturers listed.

2. Components required to be supplied in quantity within a specification sections shall be the same, supplied by same manufacturer and shall be interchangeable.

3. All materials and equipment shall be new, unless otherwise specified, and of first class quality, free from any faults or defects including blemishes, dents, imperfections, rust, and stains. Do not incorporate faulty or defective materials or equipment into the work.

4. Handle and store materials and equipment in accordance with manufacturers' and suppliers' recommendations and store packaged materials and equipment in original, undamaged condition with manufacturers label and seals intact.

5. No substitutions for the materials and equipment specified shall be made unless written approval has be given as required in the General Conditions by Owner. Substitutions will be considered only if Owner receives the advantage of lesser cost with no increase in quality, or earlier completion date or both.

SECTION 01650 - TESTING, ADJUSTING, AND BALANCING OF SYSTEMS

1. Test piping systems as required by individual Sections of the Specifications and as required by regulatory authorities having jurisdiction.

2. Balance air delivery systems; heating, ventilating and air conditioning.

3. Qualifications: Prior to start of work, submit name of organization proposed to perform services. Designate managerial responsibilities for coordination of entire testing, adjusting, and balancing. Submit documentation to confirm organization and personnel qualifications.

4. Final Reports: Fifteen days prior to Substantial Completion, submit three copies of final reports. Submit reports of testing, adjusting, and balancing which is postponed due to seasonal, climatic, occupancy, or other reasons beyond Contractor's control, promptly after execution of those services.

5. Comply with procedural standards of certifying association under whose standards service will be performed.

6. Notify Owner three days prior to beginning of testing operations.

7. Forms: Each Form shall bear signature of recorder and that of supervisor of reporting organization.

8. Contractor shall prepare each system for testing and balancing and notify testing organization seven days prior to time system will be ready for testing, adjusting, and balancing.

9. Provide instruments required for testing, adjusting, balancing operations. Make instruments available to Owner to facilitate spot checks during testing. Retain possession of instruments and remove at completion of services.

10. Verify installation of system to be tested is complete and in continuous operation. Verify ambient conditions and related facilities are in full operation. Verification shall be submitted to the Owner in writing.

11. Provide testing in accordance with these Specifications and with requirements of regulatory authorities, test piping systems to pressures and/or water head required for periods required. If leaks are discovered in pipe, fittings and/or accessories, in particular system being tested, repair leaks and repeat procedure until no leaks can be found while system is being tested subject to original requirements.

12. Balancing Air Systems: Balance to quantities shown on the Drawings. Record air quantities at each grille or outlet. Instruments and procedures shall comply with grille manufacturer's recommendations and the latest edition of Sheet Metal and Air Conditioning Contractor's National Association Manual. Air balancing shall be performed, report forms submitted and accepted by Owner before system will be accepted.

13. Water Piping Systems: Water piping systems shall be properly tested to a hydrostatic pressure of one hundred and fifty pounds per square inch (150 psi) gauge minimum, or as required by local regulations, for a period of not less than twelve (12) hours. During this test period, all leaks in pipe, fittings, and accessories in the particular piping system which is being tested, shall be stopped and the hydrostatic test shall again be applied. This procedure shall be repeated until, for an entire twelve (12) hour period, no leaks can be found while the system is being tested and subject to the pressure mentioned above.

14. Sanitary Drains: System shall have all outlets temporarily plugged. The pipes shall be filled with water, testing the system in section, such that no sections shall be tested with less than a ten (10) foot head of water. The same testing procedure shall apply to the downspout piping. If, after twenty-four hours, the level of the water has been lowered by leakage, the leaks must be found and stopped and the water level shall again be raised and the test repeated until, after a twenty-four (24) hour retention period, there shall be no perceptible lowering of the water level of the system tested.

SECTION 01700 - CONTRACT CLOSEOUT

1. During the progress of the work maintain a set of drawings at the project site for preparing record drawings. Neatly record all changes in the work and record specific locations of work shown mathematically on the drawings. In addition, record the following on mechanical and electrical drawings.

   a. Location of concealed water and electrical services, water piping, sewers, wastes, vents, ducts, conduit, and other piping by indication of measured dimensions to such line from readily identifiable walls or corners of buildings.
   b. Invert elevations of sewers and top of water lines.

2. Submit the record drawings to Owner for approval with the Punch List and written notice that the work is ready for verification of substantial completion required in the General Conditions. If Owner determines that the drawings are incomplete or incorrect in any way, he will advise Contractor of the required corrections and Contractor shall promptly submit corrected drawings. Record documents shall be delivered to Owner prior to final payment for the work.

3. Prepare two (2) complete sets of manuals containing the manufacturers instructions for operation and maintenance of each item of equipment, apparatus and operational system furnished under the Contract and any additional data specifically required in the specification sections.

   a. Manuals shall be bound with covers of durable material, arranged in the sequence of the specification sections and shall include the following:

      1. Neatly typewritten index.
      2. Complete instructions regarding operation, service and maintenance including lubrication, disassembly, and reassembly.
      3. Complete nomenclature of all parts and part numbers of all replaceable parts.
      4. Complete list of sources to be contacted for service and replacement parts including names, addressees and all other pertinent data regarding procurement procedure.
      5. Copy of all required guarantees and warranties.
      6. Manufacturer's bulletins, cuts, and description data clearly indicating the precise items included in this installation and deleting, or otherwise clearly indicating, all manufacturers' data with which this installation is not concerned.
      7. Any other data required in the specification sections.

   b. The operating and maintenance manuals shall be delivered to the Owner prior to final payment for the work.
   c. If requested by Owner, give physical demonstrations and oral instructions for the operation of equipment, apparatus, and operational systems furnished under the contract. Such demonstrations and instructions shall be given to Owner and/or others as Owner may choose.

4. In addition to the information listed in Item 3 above, the Contractor shall include in the project manual the following:

   a. General Contractor's 1-year written guarantee.
   b. All final lien waivers.
   c. Copy of Certificate of Occupancy.
   d. Copy of signed off permit card.
   e. List of subcontractors with names of contact person and phone numbers.
   f. Soil poisoning warranty.
   g. Roof warranty.
   h. All test results (soils, concrete, etc.).
   i. As-built drawings.

SECTION 01710- CLEANING

1. All cleaning shall be the responsibility of the Contractor unless specifically noted otherwise.

2. Maintain premises and public properties free from accumulations of waste, debris and rubbish caused by operations.

3. At completion of work, remove waste materials, rubbish, tools, equipment, machinery and surplus materials and clean all sight exposed surfaces; leave project clean and ready for occupancy.

4. Maintain project in accord with Occupational Safety & Health Act of 1970, as amended, in terms of clean up.

5. Conduct cleaning and disposal operations to comply with local ordinances and anti-pollution laws.

   a. Do not burn or bury rubbish and waste materials on project site.
   b. Do not dispose of volatile waste such as mineral spirits, oil or paint thinner in storm or sanitary drains.

6. During Construction

   a. Execute cleaning to ensure that roadway, walks, ground and public properties are maintained free from accumulations of waste materials and rubbish.
   b. Wet down dry materials and rubbish to lay dust and prevent blowing dust.
   c. Provide on-site containers for collection of waste materials, debris, and rubbish.
   d. Remove waste materials, debris and rubbish from site and legally dispose of at public or private dumping area off Owners property.

   1. Accumulation of loose material, trash, rubbish, and debris will not be permitted.
   2. Each contractor shall be required to dispose of waste materials on a regular basis.

7. Final Cleaning

   a. In preparation for occupancy, conduct final inspection of sight-exposed interior and exterior surfaces and of concealed spaces.
   b. Remove grease, dust, dirt, stains, labels, fingerprints, and other foreign material from sight-exposed interior and exterior finished surfaces; polish surfaces so designated to a shiny finish.
   c. Repair, patch, and touch-up marred surfaces to specified finish, to match adjacent surfaces.
   d. Remove all foreign materially from roof and site area.
   e. Perform all final cleaning, including the following:

      1. Employ experienced workmen or professional cleaners for final cleaning.
      2. Wash and clean all glass, removing labels and paint.
      3. Broom clean paved surfaces; rake clean other surfaces of grounds.
      4. Clean all floors or dirt and dust.

   f. Respective contractors shall perform cleaning of their equipment.
   g. All strainers and floor drains in respective pipe work shall be cleaned
   h. Replace burned out or inoperative lighting lamps.
   i. Owner will assume responsibility for cleaning as of time designated on Certificate of Final Acceptance or Conditional Acceptance or partial occupancy, whichever is first, for Owners acceptance of Project or portion thereof.

DIVISION 2 - SITEWORK

SECTION 02072 - SELECTED DEMOLITION

1. Section Includes:

   a. Removal of existing construction indicated on Drawings and/or required by work specified in other Sections of these Specifications.
   b. Capping and Identifying Utilities
   c. Protection of persons and property.

2. Contractor is solely responsible for coordination of work of this Section with work of subcontractors and Owner's staff for work of other Sections of these Specifications.

3. General

   a. Maintain protected access at all times. Use of explosives is prohibited.
   b. Erect and maintain weatherproof closures for exterior openings. Erect and maintain temporary partitions to prevent spread of dust, fumes, noise, and smoke. Protect existing items, which are not indicated to be altered.
   c. Existing Utilities: Disconnect, remove, and cap designated utility services within demolition areas. Mark locations of disconnected utilities. Identify and indicate capping locations on Project Record Documents.
   d. Erect and maintain fences, planking, bracing, shoring, lights, barricades, warning signs and guards required for protection of workmen and the public.
   e. Use care and appropriate means to protect construction and property, which is not part of Work of Contract. Repair, refinish and/or replace damaged construction and property at no additional cost to Owner.
   f. Demolish in orderly and careful manner with least possible disturbance to public and to adjacent property.
   g. Except where noted otherwise, immediately remove and dispose of demolished materials away from site. Do not burn or bury materials on site.
   h. The General Contractor, immediately following demolition shall measure the space to confirm the overall dimensions match those shown in the architectural drawings. If discrepancies occur, the Contractor shall immediately inform the Architect.

SECTION 02200 - EXCAVATION, BACKFILLING, COMPACTION, AND GRADING

The following are general guidelines for excavation, backfilling, compaction and grading. The contractor shall follow the specific recommendations made in the soils report and/or construction documents. When not specifically addressed in the construction documents, contractor shall comply with the provisions herein.

1. Excavate for footings; foundations structures, utilities, etc. to indicated depth. All excavation shall be assumed as earth.

   a. Trim bottoms to leave solid, undisturbed base for concrete placement. See Soils Report for bearing capacity.
   b. All foundation excavation shall be kept dry, and protected from freezing.
   c. Correct unauthorized excavation in a manner acceptable to Owner.

2. Excess earth not required for backfill shall be removed from site. General Contractor responsible for topsoil placement and raking to grade.

3. Compact backfill to density of adjacent soil, as follows, whichever is greater: (Refer to Soils Report for other recommendations).

   a. Compact soil to not less than the following percentages of maximum density for soils, which exhibit a well-defined moisture density relationship (cohesive soils) determined in accordance with ASTM D1557: and not less than the following percentages of relative density, determined in accordance with ASTM D2049, for soils which will not exhibit a well-defined moisture-density relationship (cohesionless soils).
   b. Under Buildings and Paved Areas: Compact top 8 inches of existing surface and each layer of backfill of fill material to 95 percent maximum density (Standard Proctor) for cohesive soil or 98 percent relative density (Standard Proctor) for cohesionless soils.
   c. Other Areas: Compact 8 inches of existing ground surface and each layer of backfill of fill material to 90 percent maximum density (Standard Proctor) for cohesive soils or 85 percent relative density (Standard Proctor) for cohesionless soils.
   d. Where soil materials must be moisture conditioned before compaction, uniformly apply water to surface. Prevent free water from appearing on surface of soil materials during or subsequent to compaction operation.
   e. Remove and replace, or scarify and air dry soil material that is too wet to permit compaction to specified density.

4. Backfill and fill materials

   a. Sand or sand on gravel at engineered (clean) earth fill shall be used under floor slabs on-grade, to underside of crushed stone underlayment.
   b. Earth materials taken from the excavation operations and stockpiled on site as acceptable fill material, capable of meeting the specified compaction requirements shall (be used as fill material in areas outside the building.

      1) Only 1-inch washed gravel, pea gravel or sand shall be used in utility trenches in paved areas, to top of subgrade.

   c. Existing paving, organic material or existing soils shall not be used for filling under building slabs or for filling under pavement.
   d. Granular fill under slabs on grade shall be No. 57, 6, or 67 crushed stone per ASTM D448.
   e. Remove rock or gravel larger than 2 inches in any dimension, debris, waste, obstructions, and deleterious matter from ground surface prior to placement of fills.

5. Grade site to establish required elevations. Maintain proper drainage ways to direct water away from building in final grading.

   a. Storm drainage shall be provided as indicated on site plan(s) and installed in accordance with state and local codes and ordinances.

6. Grade areas to smooth finished surfaces free from irregular surface changes. Compact with uniform levels or slopes between points and existing perimeter grades.

7. The Geotechnical Engineer, provided by the Owner, shall provide observation and testing services during the grading and foundation stage of construction to confirm recommendations in the soils report. Inspection and testing reports shall be submitted to the Owner and Building Department. General Contractor to notify Geotechnical Engineer not less than 48 hours advance notice of readiness for inspection.

8. Notify Owner if existing utility lines are encountered in the work area. Protect such utilities from damage.

DIVISION 3 - CONCRETE

SECTION 03300 - CAST IN PLACE CONCRETE

1. Cast-in-place concrete work including all labor, tools, material, equipment and services necessary to properly place and complete all interior and exterior cast-in-place concrete, formwork, reinforcement, joints and embedded items, finishing, curing and concrete testing.

2. Unless otherwise shown or specified, the work shall conform to the following standards of the American Concrete Institute.

   ACI 214, Recommended Practice for Evaluation of Strength Tests Results of Concrete.
   ACI 306R, Cold Weather Concreting
   ACI 315, Manual of Standard Practice for Detailing Reinforced Concrete Structure.
   ACI 318, Building Code Requirements for Reinforced Concrete.
   ACI 347, Recommended Practice for Concrete Formwork.
   ACI 305R, Hot Weather Concreting.
   ACI 211.1, Standard Practice for Selecting Proportions for Normal, Heavyweights and Mass Concrete.
   ACI 304R Guide for Measuring, Mixing, Transporting and Placing Concrete.

3. Materials:

   a. Portland Cement: ASTM C150; Type 1
   b. Aggregates ASTM C33
   c. Water: Clean, fresh, and potable
   d. Air Content: 5% to 8%
   e. Air entrainment admixture ASTW C260, No other admixtures, including calcium chloride and fly ash are permitted without prior approval by the Structural Engineer.
   f. Reinforcing steel:
   1. Bars: ASTM A615, Grade 60 (Grade 40 for stirrups and ties)
   2. Fabric: ASTM A185
   g. Curing compound: ASTM C309, Type 1, Class A, Sonneborn "Kure-N-Seal" or equal; two coats for exposed concrete floors.
   h. Control joints filler: ASTM D1751, J & P "Tex-Lite Fiber" or equal, 1/2" thick.
   i. Forms: Steel, wood or other suitable material of size and strength to resist movement during concrete placement and to retain horizontal and vertical alignment until removal. Use straight forms, free of distortion and defects. Use flexible spring steel forms or laminated boards to form radius bends as required. Coat forms with a non-staining form release agent that will not discolor or deface the surface of the concrete.
   j. Vapor Barrier: Refer to Structural Drawings
   k. Grout: "Masterflow 928" by Master Builders or equal.

4. Concrete Mix:

   a. Ready mixed per ASTM C94. Fly-Ash will not be allowed.
   b. Strength - per construction plans or minimum as follows:
   1. Building = 3,000 psi @ 28 days
   2. Exterior (exposed) = 4,000 psi @ 28 days
   c. Slump:
   1. 5-inch maximum for general use.
   2. 3-inch maximum for flat work.
   d. Air entrainment: 5% by volume, +/- 1%.
   e. Provide mix design to Owner for review.

5. Verify lines, levels, and measurement before proceeding with formwork.

6. Coordinate work of other sections in forming and setting openings, slots, recesses, chases, sleeves, bolts, anchors, and other inserts.

7. Place, support, and secure reinforcement against displacement per ACI 315.

8. Install vapor barrier under interior floor slabs on fill. Lap joints minimum 6-inches and seal. Do not disturb vapor barrier while placing reinforcement.

   a. Coordinate the installation of joint material and moisture barriers' with placement of forms and reinforcing steel.

9. Deposit concrete, continuously, or in layers of such thickness that no concrete will be placed on concrete which has hardened sufficiently to cause the formation of seams or planes of weakness. If a section cannot be placed continuously, provide construction joints. Deposit concrete as nearly as practical to its final location to avoid segregation.

10. Consolidate placed concrete by mechanical vibrating equipment supplemented by hand spacing, rodding, or tamping. Use equipment and procedures for consolidation of concrete in accordance with ACI recommended practices.

11. Placing Concrete Slabs: Deposit and consolidate concrete slabs in a continuous operation, within limits of construction joints, until the placing of a panel or section is completed.

   a. Bring slab surface to correct level with straightedge and strike off. Use bull floats or darbies to smooth surface, free of humps and hallows. Do not disturb slab surface prior to beginning finishing operations.
   b. Maintain reinforcing in proper position during concrete placement.
   c. Forms may be removed after curing at not less than 50 degrees F. for 24 hours provided concrete is hard enough to not be damaged by form removal operations, and continued curing and protection is maintained.

12. Finishing interior slabs: Float finish per ACI 301. Power trowel to produce a smooth surface, relatively free of defects. After the surface has hardened to a point that it may be walked on without leaving imprints, power trowel the floor slab to produce a dense, smooth surface and to burnish a uniform high sheen on the surface.

   a. Where ceramic and slate tile occurs, provide a fine, light broom finish to aid in bonding of tile to slab.

13. Finishing exterior slabs: Finish slabs to true planes and provide light broom finish as acceptable to Owner. All exterior exposed concrete shall receive an anti-spall treatment of 50%(by volume) boiled linseed oil and 50% (by volume) mineral spirits, per AASHTO M233. First application: 40 sq. yds. per gallon and allow to completely dry. Second application: 60 sq. yds. per gallon and allow to completely dry.

   a. Vertical surfaces shall be rubbed with medium coarse carborundum stone and water to provide a smooth texture of uniform color, form mark free.
   b. All concrete surfaces shall be stripped and rubbed same day.

14. Tolerance: Finished slabs shall be level with tolerance of 1/8" in ten feet, when tested with ten foot straight edge placed on the surface at not less than two different angles. Uniformly slope surface to area drain.

15. The Contractor shall engage and pay for a testing laboratory for strength and slump test.

   a. Test specimens for compressive strength in accordance with ASTM C31 and C39.
   b. Make at least one strength test for each 100 cubic yards, or fraction thereof, of each mix design of concrete placed in any 1 day.
   c. Prepare five (5) test cylinders from each of the above samplers in accordance with ASTM C32 for laboratory cured specimens. Test two (2) cylinders at age 7 days for preliminary indication of design strength. Test two (2) cylinders at age 28 days for the basis of quality control as specified by ACI 318. Retain one (1) cylinder for 45 day testing if required.
   d. Determine slump of the concrete sample for each strength test in accordance with ASTM C143.
   e. Determine percent of air content in accordance to ASTM C231 or ASTM C173.

16. Average of any three consecutive 28-day strength tests shall be equal to or greater than specified strength, and not more than 10% of tests shall have values less than specified strength. In no case shall a test have a value less than 90% of specified strength.

DIVISION 4 MASONRY

SECTION 04200 - CONCRETE UNIT MASONRY

1. Concrete Masonry Units:

   a. Concrete masonry units shall be from one manufacturer, of uniform texture and color for each type required.
   b. Concrete masonry units:
      i. Standard Units: Nominal face dimensions of 8 inch x 16 inches long, unless otherwise indicated; complete with corners, bases, bond beams, lintels and fillers to match concrete masonry units; 1-1/4" minimum face shall be cured in a moisture-controlled atmosphere or in an autoclave at normal pressure and temperature to comply with ASTM C90, Grade N, Type I.
      ii. Decorative Concrete Masonry Units: ASTM C 90; Weight Classification, Normal Weight; Type I, moisture-controlled units. Exposed faces with split-face finish. Special shapes for lintels, corners, jambs, sash, control joints, and other special conditions.
   c. When concrete unit masonry units are removed from the manufacturer's storage area, each cube or block shall be covered on top and all sides with a waterproof protective material. Protective covering shall be applied prior to the blocks being exposed to the weather.

2. Mortar: ASTM C476, Type S, 1800 psi at 28 days.

   a. Portland Cement: ASTM C150, Type I.
   b. Aggregates: ASTM C144, standard masonry type; clean, dry and protected against dampness, freezing and foreign matter.
   c. Hydrated Lime ASTM C207, Type S.
   d. Water: Clean and free from injurious amounts of oil, alkali, organic matter or other deleterious material.
   e. Use no admixtures unless written approval is obtained from Owner.

3. Grout: Masonry mortar; consistency which will completely fill all spaces intended to receive grout.

4. Reinforcing Bars: 60 ksi yield grade; deformed billet steel bars, ASTM A615.

5. Horizontal reinforcement: Truss type ASTM A92 hot dip galvanized steel wire after fabrication ASTM A153 Class B2 with not less than #9 side rods with #9 cross rods.

   a. Dur-O-Wal, AA Wire Products, Heckman, or equal.

6. Waterproofing at CMU: Hydro-Seal 75, Grey 3, by Northern Industries, Inc.; high strength, hydrophobic, breathing type, two-component, modified epoxy coating manufactured from a balanced ratio of fillers, and water extended resins and hardeners. Install in strict accord with manufacturer's installation requirements.

7. Maintain materials and surrounding air temperature to minimum 50 degree F. prior to, during and 48 hours after completion of masonry work or until complete hydration of the mortar is achieved whichever is greater.

8. During freezing or near freezing weather provide adequate equipment or cover to maintain a minimum temperature of 50-degree F. and to protect masonry work completed or in progress.

9. Establish lines, levels, and coursing. Protect from disturbances.

10. Thoroughly mix mortar ingredients, in quantities needed for immediate use.

   a. If necessary, re-temper mortars to replace water lost by evaporation, but do not re-temper or use mortar after two (2) hours from the initial mixing time.

11. Place masonry true, level and plumb in accordance with required lines and levels. Do not wet concrete masonry units. Align all vertical cells to maintain a clear, unobstructed system for grouting.

12. Full bond external and internal corners and intersections.

   a. Buttering corners of joints and deep or excessive furrowing of mortar joints will not be permitted.

13. Do not shift or tap masonry after mortar has taken initial set. Where adjustments must be made, remove mortar and replace.

14. Lay out masonry so not less than one-third (1/3) of the face of a unit is exposed on the face of the wall at openings, corner or offsets.

15. Perform jobsite cutting of masonry with proper power tools to provide straight and true, unchipped edges.

16. Ensure masonry courses are of uniform height. Make vertical and horizontal joints equal and of uniform thickness. Lay in full bed of mortar, properly jointed with other work.

17. Remove excess mortar and projections. Take care to prevent breaking masonry corners.

18. Lay all masonry units in running bond course 1 block unit and 1 mortar joint to equal 8 inches. Form concave mortar joints, where exposed; strike flush where concealed.

19. Provide temporary bracing during masonry erection; maintain in place until building structure provides permanent bracing.

20. Place masonry reinforcing and anchorages for concrete unit masonry as follows:

   a. Provide single wythe walls with horizontal masonry reinforcing in every second mortar joint.
   b. Place horizontal masonry reinforcing in first and second joint above and below openings. Place continuous in first and second joint below top of walls.
   c. Fully reinforce corners and intersections, using prefabricated corner and "V" reinforcement sections.
   d. Lap masonry reinforcing splices minimum 6 inches.
   e. Place vertical reinforcing at indicated centers. Grout cores solid in 4'-0" maximum lifts.

21. As work progresses, build-in anchor bolts, and other items embedded in masonry.

22. Remove excess mortar and smears upon completion of masonry work.

   a. Clean soiled surfaces of all masonry work exposed to view using sand and water, fiber brushes and soap as required. Remove all dirt, mortar, stains and other defacements.

23. Clean and remove all mortar droppings from floor.

24. Cover tops of walls when work is not in progress.

SECTION 04210 - THIN BRICK MASONRY

1. Section includes Thin Brick Masonry units, Mortar, accessories and installation.

2. References:

   A. ASTM C 1088: Thin brick units made from clay or shale
   B. ASTM C 216: Standard specification for modular face brick

3. Deliver products to site under provisions of these specifications
   A. Store and protect products on site.
   B. Store mortar and other moisture-sensitive materials in protected enclosures; handle by methods which avoid exposure to moisture.

4. Provide manufacturer's written warranty for a period of fifteen years from the date of Owner acceptance of the project against defects in materials and workmanship.

5. Conform to manufacturer's printed specifications and instructions for each condition encountered on the job. In general, standard practice will be expected and accepted and poor or sloppy workmanship will be rejected.

6. Protect materials from rain, wind, moisture, and freezing temperatures prior to, during, and for 72 hours after completion of work.

7. The drawings were prepared and portions of this specification written on the basis of using the products of specific manufacturers. It is not the intent to limit competitive bidding. Products with equal characteristics by other manufacturers are acceptable under the conditions of these specifications.

8. Materials:

   A. Thin Brick Masonry Units: ASTM C1088 Grade Exterior, specific manufacturer, plant, product and blend as noted in finish schedule on the drawings.
   B. Mortar: Manufacturer's standard, premixed, pre-colored, water based masonry mortar, minimum compressive strength of 1800 psi; ASTM C270, Type S, non-staining. Color: as noted on drawings. Masonry cement will not be allowed.
   C. Weather-resistant Barrier: Kraft waterproof building paper, UBC Standard No. 17-1 or equal.
   D. Metal Lath: 18-gauge galvanized woven wire mesh, 2.5 lb. flat diamond self-furring mesh.

9. Sheathed Surface: Install two layers of weather-resistant barrier with lap joints 4 inches shingle fashion, apply code approved metal lath with galvanized nails or staples, 6 inches on center vertically and 16 inches on center horizontally.

10. Mortar Mixing: Thoroughly mix mortar ingredients in quantities needed for immediate use in accordance with ASTM C482, Type S.

11. Laying: Apply to wall with adhesive mortar. Press units firmly into position in the mortar bed, joggle each unit to bond firmly, causing slightly around edges of units. Maximum area of application to be 10 SF at a time. Minimum width of cut unit to be 3 inches.

12. Joints: Joints shall be 3/8" inch in width; shall be uniform. Install outside corner return units with varying lengths as required.

13. Pointing: Fix adhesive mortar to be applied after 72 hour curing period. Fill joint to create concave joint. Mortar to be applied in plastic, workable condition using grout bag or similar device.

14. Cleaning: Clean surfaces in accordance with manufacturer's recommendations. Use non-metallic tools in cleaning operations.

15. Mock-Up: Provide 4 foot x 4 foot masonry wall mock-up with corner units included for Owner approval before proceeding with building installation.

DIVISION 5 METALS

SECTION 05120 - STRUCTURAL STEEL

1. Code and Standards; AISC "Specifications for the Design, Fabrication, and Erection of Structural Steel for Buildings" including "Commentary"; AWS "Structural Welding Code", comply with applicable provisions except as otherwise indicated.

2. Shop Drawings: Show complete details and scheduled (if required) for fabrication, assembly and erection. Furnish anchor bolts required for installation in other work; furnish templates for bolt installation.

3. Steel Plates, Shapes, Bars: ASTM A36.

4. Cold-Formed Steel Tubing: ASTM A500, Grade B.

5. Steel Pipes: ASTM A53, Type E or S, Grade B, Schedule 40 unless otherwise noted.

6. Fasteners: High-strength bolts and nuts ASTM A325 or A490; unfinished bolts and nuts, ASTM A307, Grade A; rivets, ASTM A502, Grade 1.

7. Shop Paint: FS TT-P-86, Type II; or SSPC-Paint 14.

8. Fabrication: Comply with AISC "Specifications" and final shop drawings. Mark and match-mark units for field assembly.

9. Connections: As shown on final shop drawings, Use high-strength bolts for field connections, except as otherwise indicated.

   a. Comply with AWS Code for procedures, appearance and quality of welds.

10. Provisions for Other Work, Fabricate structural steel members to provide holes for securing either work and for passage of other work through steel framing as indicated.

11. Shop Painting: Paint structural steel work, except members or portions of members embedded in concrete or mortar, and contact at areas to be welded or riveted. Clean steel free of loose mill scale, rust, oil, and grease. Apply prime paint to provide a minimum dry film thickness of 2.0 mils.

12. Erection: Comply with AISC Code and Specification, and maintain work in safe and stable condition during erection. Provide temporary bracing and shoring as required; remove when final connections placed.

   a. Set base plates on cleaned bearing surfaces, using wedges or other adjustments as required. Solidly pack open spaces with commercial non-shrink grout.
   b. Splice members only where shown on final shop drawings.
   c. Touch-up prime paint after erection. Clean field welded, bolted connections and abraded areas, and apply same type paint as used in shop.

SECTION 05500 - METAL FABRICATIONS

1. Work includes miscellaneous shop fabricated ferrous metal items, including but not limited to:

   a. Loose steel lintels
   b. Miscellaneous framing, supports and trim
   c. Roof Ladders
   d. Steel deck panels

2. Materials

   a. Steel Sections: ASTM A36.
   b. Steel Tubing: ASTM A500 or ASTM A501.
   c. Stainless Steel: Type 304 (18-8), ASTM A269; Satin polished finish.
   d. Steel Pipe: ASTM A53, Grade B, standard weight (Schedule 40).
   e. Malleable Iron Castings; ASTM A47.
   f. Bolts, Nuts, and Washers. ASTM A307.
   g. Welding Materials: ASW D1.1; type required for materials being welded.
   h. Primer SSPC-Paint 2, for shop application and field touch-up.
   i. Steel Deck Panels: ASTM A446 with G90 galvanized coating, steel ASTM A611, Grade C, Shop Primed.

3. Fabrication:

   a. Verify dimensions in field prior to shop fabrication.
   b. Fabricate items with joints tightly fitted and secured.
   c. Fit and shop assemble in largest practical sections, for delivery to site.
   d. Prime paint items schedule to provide a uniform dry film thickness of 2.0 mils.

4. Ladders:

   a. Fabricate ladders for the locations shown, with dimensions; spacing, details and anchorage as indicated. Comply with the requirements of ANSI A 14.3, except as otherwise indicated.

      1) Unless otherwise shown, provide 1/2" x 2-1/2" continuous structural steel flat bar side rails with eased edges, spaced 24" apart.
      2) Provide 3/4" diameter solid structural steel bar range, spaced 12"o.c.

   a. Fit rungs in centerline of side rails, plug weld and grind smooth on outer rail faces.

   b. Support each ladder at top and bottom and at intermediate points, spaced not more than 5'-0" o.c. Use welded or bolted steel brackets, designed for adequate support and anchorage, and to hold ladder clear of the wall surface with a minimum of 7" clearance wall to centerline of rungs. Return rails to wall or structure unless other secure handholds are provided.

   c. Provide non-slip surface on top of each rung, either by coating the rung with aluminum oxide granules set in epoxy resin adhesive, or by using a type of manufactured rung which is filled with aluminum oxide grout.

DIVISION 6 - W OOD & PLASTICS

SECTION 06100 - ROUGH CARPENTRY

1. Framing Lumber: American Softwood Lumber Standards PS20, S4S, 19% maximum moisture content, with the following minimum working stresses.

   Bending (fb) = 1500 psi
   Horizontal Shear (fv) = 95 psi
   Compression Perpendicular to Grain (fc) = 390 psi
   Modulus of Elasticity (E) = 1,500,000

   a. Members in contact with concrete, masonry, or roof shall be preservative treated, AWPB LP-2.
   b. Fire retardant treated lumber: AWPA C20.

2. Plywood: PS1, factory marked with appropriate APA trademark. Wafer or particle board is not acceptable. Protect all plywood from moisture by use of all required waterproof covering until the plywood has in turn been covered with the next succeeding component of finish.

   a. Roof sheathing: APA rated sheathing, 40/20, size as noted on Structural drawings, Exposure 1.
   b. Wall sheathing: APA rated sheathing, 32/16, size as noted on Structural drawings, Exposure 1.
   c. Interior wall blocking: APA B-D rated utility panel, 5/8" nominal, interior, Group 2.

3. Building wrap:
   a. At EIFS or Stucco: Tyvek "Stucco Wrap," by DuPont Company, Wilmington, Delaware.
   b. At all other locations: Tyvek "Commercial Wrap," by DuPont Company, Wilmington, Delaware.

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SEAL

DICKEY'S - SAGINAW
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CLIENT : SMOKING CARDINALS, LLC
1113 CARRIE LYNN DRIVE
SAGINAW, MI 48706

DICKEY'S BARBECUE PIT est. 1941

MI-2197

DATE	DESCRIPTION
07/13/22	ISSUED FOR PERMIT

DATE	DESCRIPTION

SHEET TITLE
SPECIFICATIONS

SHEET NUMBER:
SP-1.1

JLLA PROJECT NUMBER:
DBQ-103

07/13/2022 - ISSUED FOR PERMIT

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4. Nails, Spikes, and Staples: Galvanized for exterior locations and treated wood; plain finish for other interior locations; size and type to suit application.

5. Bolts, Nuts, Washers, Lags, Pins, and Screws: Medium carbon steel, sized to suit application, galvanized for exterior locations and treated wood, plain finish for other interior locations.

6. Fasteners: Toggle bolt type for anchorage to hollow masonry. Expansion shield and lag bolt type for anchorage to solid masonry or concrete. Bolts or power activated type for anchorage to steel.

7. Erect wood framing, furring, stripping, plywood backing and nailing members true to lines and levels. Do not deviate from true alignment more than 1/4 inch.

8. Comply with NFPA National Design Specification for Wood Construction recommendations for sizes and openings of members, nailing schedule, and for framing openings if sizes, spaces, or opening framing are not indicated.

9. Provide blocking for support of wall mounted cabinetwork, hardware, toilet partitions, urinal screens, toilet accessories, and plumbing fixtures unless other means of support is indicated.

10. Do not splice structural members between supports.

SECTION 06200 - FINISH CARPENTRY

1. Softwood Lumber: Graded in accordance with the requirements of AWI Quality Standards; maximum moisture content of 6 percent for interior work and 10 percent for exterior work.

2. Softwood Plywood: Graded in accordance with AWI Quality Standards; exterior material of Birch Veneer, paint grade veneer, or plastic laminate as indicated.

3. Plastic Laminate: NEMA LD-3; GP-50 for horizontal and vertical surfaces over marine plywood CL-20 for backing and unexposed surfaces.

4. Nails: Size and type to suit application.

5. Bolts, Nuts, Washers, Lags, Pins, and Screws: Size and type to suit application.

6.Interior Wood Trim:
a.General: Work solid stock to patterns shown. Standard shape materials shall conform to patterns indicated in current grading rules for the species.
b. Interior Wood Trim:
1. General Use: #3 Common Grade Ponderosa Pine
c. Interior Finish Plywood: 3/4 inch APA C-D, White Pine Veneer, Group 1, Exposure 1, Interior Plywood
d. Frames: Same as for exterior wood trim.
e. Shelving: 3/4 inch APA C-D, White Pine Veneer plywood with exposed edges edge banded.
h. Nails: FS FF_N_103c and FF_N_ 105a.
i. Screws: FS FF_S_11 lb.
f. Lag Screws and Bolts: FS FF_B_561, type and grade best suited for purpose used.
g. Toggle Bolts: FS FF_B_588b.

7. Exterior Wood Trim:
a. Solid wood: For opaque or satin finish, #3 Common Grade Ponderosa Pine, redwood, or red cedar, location as indicated on plan.
b. Plywood: Smooth finish cedar plywood.
c. Exterior Wood Trim: Contractor's option: Redwood S4S #1, Cedar S4S #1.

8. Fabricate finish carpentry and cabinetwork items in accordance with AWI Quality Standards 'Custom Grade', and Section 400 of the AWI Guide. Shop fabricate items where possible.

9. Apply plastic laminate finish in full-uninterrupted sheets consistent with manufactured sizes. Corners and joints to be hairline.

10. Cap exposed plastic laminate edges with material of same finish and pattern.

11. Use exposed fastening devices or nails only when unavoidable.

12. Sand work smooth and set exposed nails and screws. Eliminate hammer marks and other defects. Apply wood filler in exposed nail and screw indentations and leave ready to receive site applied finishes.

13. Set and secure finish carpentry and cabinetwork items in place, rigid, plumb, and square.

14. Install and adjust cabinet hardware to correct operation.

15. Finish woodwork shall be set straight, plumb or level, closely fitted and rigidly fastened. Nail heads of exposed work shall be set for putty and other fasteners shall be concealed.

16. Joints shall be tight and formed to conceal shrinkage. All trim shall be mitered; no butt joints permitted interior corners shall be coped.

17. Install doors plumb, true and fitted properly. Leave in perfect working order. Warped doors will be rejected and shall be replaced. Neatly mortise, drill, and anchor all hardware.

18. Conceal fasteners wherever possible. Where not possible, locate them in an inconspicuous place. Where nails or screw attachment occurs in woodwork face, countersink, putty and sand smooth.

SECTION 06255 - FIBERGLASS REINFORCED PANELS

1. FRP panel: 48" wide, 3/32" thickness, "white" unless noted otherwise; approved manufacturers:

a. Kemlite
b. Marlite

2. FRP Accessories: All moldings, trim, adhesive and other accessories shall be as manufactured and recommended by the same manufacturer as panels.

3. Sealant

a. One part Silicone Rubber, ASTM C920 and FS TT-S-001543A, FDA approved, or as recommended by FRP manufacturer.
b. Color: Clear to translucent

4. Install panels over water resistant drywall in strict accordance with manufacturers recommendations, using non-flammable adhesive (100% coverage).

a. Drywall must be installed (and all joints taped) floor to ceiling to provide a good bondable surface to accept installation of FRP panels.

5. Discard units of material which are unsound, warped, bowed, twisted, improperly treated, or too small to fabricate, work with minimum of joints or optimum jointing arrangements, or which are of defective manufacture with respect to surfaces, sizes, or patterns.

6. Scribe and cut work to fit adjoining work.

a. Caulk all joints and all rnouldings with silicone sealant.
b. Panels to be applied to the wall with the 48" dimension horizontal, and in lengths to extend from base to ceiling with no intermediate horizontal joints.
c. Install the work plumb, level, true and straight with no distortions. Shim as required using concealed shims. Install to a tolerance of 1/8" in 8'-0" for plumb and level, and with 1/16" maximum offset in flush adjoining surfaces.

DIVISION 7 - THERMAL AND MOISTURE PROTECTION

SECTION 07210 - BUILDING INSULATON

1. Batt Insulation: Pre-formed glass fiber batt blankets with foil face membrane covering; per ASTM C665, Type III; densities of not less than 0.5 lb. per cu. ft. for glass fiber units, K-value of 0.27; flame spread of 50 or less, ASTM E84 (Class A), 6" (R-19) at walls and 10" (R-30) at roof, unless otherwise noted.

a. Certainteed Corp.
b. Schuller International
c. Owens-Corning Fiberglass Corp.
d. United States Gypsum Co.
e. Knauf Fiberglass

2. Perimeter Insulation: Rigid, cellular thermal insulation with closed-cells and integral high density skin, formed by the expansion of polystyrene base resin in an extrusion process to comply with ASTM C578 for type indicated; with 5-year aged R-values of 5.4 and 5 at 40 and 75 deg. F (4.4 and 23.9 deg, C.) respectively, 1" thickness unless otherwise noted.

a. Dow Chemical Co., – Styrofoam SM
b. Owens–Corning – Foamular 250
c. Diversifoam Products – Certifoam SE
d. Amoco Foam Products – Amofoam CM

3. Sound attenuation insulation: USG "SAFB", 2.5 pound/cu. ft. density, 3-1/2 inches thick, no substitution.

4. Installation accessories and adhesives shall be as recommended by insulation manufacturer for type of application and condition of substrate.

5. Install batt insulation in accordance with manufacturer's instructions.

a. Place batt insulation in partitions tight within spaces, around cut openings, behind and around electrical and mechanical items within or behind partitions and tight to items passing through partitions.
b. Trim insulation neatly to fit spaces. Fill gaps or voids with insulation.
c. Install insulation with factory applied membrane facing warm side of building spaces.

6. Secure rigid insulation to substrate surfaces. Stagger joints 6" where multi-layered. Cut and shape to sub state conditions.

7. Provide a compete thermal envelope around the entire building whether shown on drawings or not.

SECTION 07411 - CORRUGATED METAL PANELS

1. Section Includes:
A.Preformed metal panels
B.Fasteners
C.Submittals

2. Reference Publications:
A.ASTM A792–83–A2 50: Specifications for steel sheet, aluminum–zinc alloy coated (galvanized by the hot dip process) general requirements (galvalume).
B.SMACNA "Architectural Sheet Metal Manual" Sheet Metal and Air Conditioning Contractors National Association, Inc.

3. Submittals:
A.Submit Shop Drawings per SUBMITTALS Section prior to fabrication, for Owner's acceptance. Show gauges, profiles, fastener types and locations, and flashing details.
B.Submit samples of panel proposed with color samples on actual material, for Owner's acceptance and color selection.

4. Coordination: Contractor shall be responsible for dimensions, detailing, fabrication, fitting, and alignment of work of this section.

5. Guarantee:
A. The work performed under this Section of the Specifications shall be guaranteed in writing for a period of two years from the date of Substantial Completion against defects in materials and workmanship. During the guarantee period, the contractor and subcontractor jointly agree that within 24 hours of receipt of notice from the Owner defects, within the meaning of the guarantee, will be immediately repaired and within 10 working days after the receipt of notice from the Owner, the defective product will be restored to the standard of the original Specifications without cost to the Owner, including all labor, materials and other costs incidental to the Work.

6. Manufacturer:
A. The Drawings were prepared and portions of this specification written on the basis of using the products of various manufacturers. It is not the intent to limit competitive bidding. Products with equal characteristics by other manufacturers are acceptable under conditions of the Specifications.

7. Sheetmetal Panels:
A. Reynolds Metals Company, Richmond, Virginia; 2.50 x 1/2 inch corrugated panels, Grade A, Galvalume Finish.

8. Fasteners shall be concealed, corrosion resistant, type and size required by manufacturer's specifications. Stainless steel fastening shall be used for connecting dissimilar metals.

9. Handling: Perform in a manner to prevent bending, warping, twist_ or other damage. Do not use damaged or bent materials.

10. Storage: Store units on raised support and protect from weather.

11. Workmanship: Use only skilled and experienced personnel. Workmanship shall be equal to the best practice of modern metal roofing installation.

12. Installation:
A.General Requirements:
1.Corrugated Sheets: Provide the finished dimensions, seam to seam. Furnish continuous sheets. Single pieces less than eight (8) feet long may be used to connect to shop fabricated inside and outside corners.
2.Installation: Install panels without waves, warps, buckles, fastening stresses or distortion, allowing for expansion and contraction. Installation shall be in strict accordance with manufacturer's written instructions and approved shop drawings.
3.Joints: Lap panels 6 inches minimum (2 corrugations) with double beaded tape sealer and appropriate fasteners.
4.Dissimilar Materials Contract: Where sheetmetal is shown contracting concrete, masonry materials, steel, other dissimilar metal, or is contacting wood, keep sheetmetal from direct contact with the dissimilar materials by a coat of bituminous paint applied to a thickness of 12 to 14 mils.

13. Cleaning:
A.Clean work of other trades damages and/or marred during the installation of sheetmetal work. Sheetmetal surfaces shall be cleaned with cleansers recommended by manufacturers of sheetmetal. Installed sheetmetal surfaces must be clean and uniform in appearance.

SECTION 07512 - ROOFING SYSTEM REPAIR

1. BASIC REQUIREMENTS

A. Repair existing roofing system as set forth in this Section to allow for proper penetrations of the membrane by other trades.

B. Use adequate numbers of skilled workmen who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the work of this Section.

C. Use only materials and installation crews approved by the warranter of the existing roofing system. All materials shall be as recommended for the conditions by a single manufacturer as suitable for that use.

D. Manufacturer of materials shall be approved by the warranter of the existing roofing system. Review warranty requirements with Landlord prior to performing work.

E. Use only applicators that are approved by the warranter of the existing roofing system to perform work on that particular roofing system.

F. Sub–Contractor shall thoroughly inspect roof with a manufacturer's representative to determine if any other repairs or refurbishments are required to insure a watertight building.

2. INSTALLATION

A. Make any repairs as required from inspection of roof.

B. Re–slope, insulate and re–roof at areas shown to match existing.

C. Install curb flashing as required for equipment furnished by Others, Mechanical and Electrical work.

SECTION 07620 - FLASHING AND SHEET METAL

1. Zinc–Coated Steel: Commercial quality with 0.20 percent copper, ASTM A526, except ASTM A527 for lock–forming, G90 hot–dip galvanized, mill phosphatized for painting.

2. Gauges: Gauges are based on galvanized sheet metal. Where other material is used, use equivalent weights in tables in Sheet Metal Manual. Based upon galvanized sheet metal, the following are minimum weights for work specified herein:

Item	Gauge
Hook Strips	22
Joint Covers	22
Cap Flashing	22
Special Flashing	22
Pitch Pans	24
Window Sill Flashing	22
Scuppers	24

3. Solder: For use with steel, provide 50–50 tin/lead solder, ASTM B52 with rosin flux.

4. Fasteners: Same metal as flashing/sheet metal or other noncorrosive metal as recommended by sheet manufacturer. Match finish of exposed heads with material being fastened.

5. Bituminous Coating: SSPC–Paint 12, solvent type bituminous mastic, nominally free of sulfur, compounded for 15–mil. dry film thickness per coat.

6. Roofing Cement: ASTM D4586, asphaltic.

7. General Metal Fabrication: Shop–fabricate work to greatest extent possible. Comply with details shown, and with applicable requirements of SMACNA 'Architectural Sheet Metal Manual' and other recognized industry practices. Fabricate for waterproof and weather resistant performance, with expansion provisions for running work, sufficient to permanently prevent leakage, damage, or deterioration of the work. Form work to fit substrates. Comply with material manufacturer instructions and recommendations for forming material. Form exposed sheet metal work without excessive oil–canning, buckling, and tool marks, true to line and levels indicated, with exposed edges folded back to form hems.

a. Fabricate non–moving seams in sheet metal with flat–lock seams. For metal other than aluminum, trim sides to be seamed, form seams and solder. Form aluminum seams with epoxy seam sealer; rivet joints for additional strength where required.

b. Where tapped or bayonet–type expansion provisions in work cannot be used, or would not be sufficiently water–weatherproof, form expansion joints of inter–meshing hooked flanges, not less than 1 inch deep, filled with mastic sealant (concealed within joints).

c. Where movable, non–expansion type joints are indicated or required for proper performance of work, form metal to provide for proper installation of elasticmeric sealant, in compliance with SMACNA standards.

8. Comply with installation instructions and recommendations of SMACNA 'Architectural Sheet Metal Manual." Anchor units of work securely in place, providing for thermal expansion of metal units; conceal fasteners where possible, and set units true to line and level as indicated. Install work with laps, joints, and seams which will be permanently watertight and weatherproof.

9. Clean exposed metal surface, removing substances which might cause corrosion of metal or deterioration of finishes.

10. Elastomeric Flashing: Non–reinforced, homogenous, extruded elastomeric sheet flashing .02 inch thick; one of the following:
a. Nervastral Seal–Pruf HD with cold application mastic by Rubber & Plastic Compound Co., Inc.
b. Wascoseal with Wascoplex mastic by Wasco Products, Inc.
c. Nu–Flex with Nu–Flex mastic by Sandell Manufacturing Co.,Inc.

SECTION 07920 - SEALANTS AND CAULKING

1. Sealant Type 1: One component, acrylic latex, for interior non–moving joints.

a. Sonneborn: "Sonolac" or equal.

2. Sealant Type 2: One component urethane, gun–grade, non–sag, for interior or exterior concealed moving joints, thresholds end architectural sheet metal.

a. Sonneborn "NP1" or equal.

3. Sealant Type 3: Multi–component urethane, gun–grade non–sag, for interior or exterior exposed moving joints (other than pavements), door and window frames, and other weather tight locations.

a. Sonneborn "NP2" or equal.

4. Sealant Type 4: One component, urethane, gun–grades or pourable, self–leveling for interior or exterior horizontal joints.

a. Sonneborn "Sonalastic SL1" or equal.

5. Primer: Non–staining type, recommended by sealant manufacturer to suit application. Unpainted, porous surfaces shall be primed.

6. Joint Cleaner: Non–corrosive and non–staining type, recommended by sealant manufacturer; compatible with joint filling materials.

7. Joint Filler: ASTM D1056, round, closed cell polyethylene foam rod, oversized 30 to 50 percent. Polystyrene is unacceptable.

8. Bond Breaker Tape: Pressure sensitive polyethylene tape recommended by sealant manufacturer to suit application.

9. Clean, prepare and size joints in accordance with manufacturer's instructions. Remove any loose materials and other foreign matter which might impair adhesion of sealant. Metal surfaces shall be free of corrosion.

10. Install joint filler rod to proper depth by rolling material into joint without lengthwise stretching or twisting. Do not puncture or prime filler rod.

11. Sealant applications shall be performed in strict accordance with manufacturer's written specifications by tradesmen skilled in the work. Use masking tape to protect adjacent surfaces as necessary.

12. All sealing shall be done with neat, smooth tooled beads, free of alt pockets, foreign embedded matter, ridges and sags, in firm full contact with interfaces.

13. Work adjacent to joints shall be cleaned free of smears of sealant compound as work progresses.

DIVISION 8 - DOORS AND WINDOWS

SECTION 08110 - STEEL DOORS AND FRAMES

1. All hollow metal doors and frames shall be furnished by the Contractor. Refer to Door Schedule on drawings.

2. Install doors and frames in accordance with SDI–100 and SDI–105 except as amended in this section. Comply with NFPA–80 for fire rated assemblies.

3. Install steel doors and frames plumb and square in correct locations indicated on drawings and with a maximum diagonal distortion of 1/16" inch. Ensure that frames are securely and rigidly anchored to adjacent construction.

4. Hang door to fit frames closely without binding, Door to come in full contact with stops when closed. Doors shall swing quietly and easily and not strike floors at any point of swing. Doors not equipped with closers shall remain stationary in any intermediate position in which they are left.

5. Immediately after installation touch up surface coating damage with primer paint identical to that used for shop coat. Leave in clean condition, ready for finish paint specified in Section 09900. Install rubber door silencers after frames are given finish coats of paints.

6. Types

a. Interior: Heavy–duty door, SDI Grade II, Model 4, seamless–composite construction, 18 gauge face sheets.
b. Exterior: Extra heavy duty door, SDI Grade III, Model 4, seamless–composite construction 16 gauge face sheets.
c. All exterior hollow metal doors shall be top sealed weather tight for exterior use.
d. Door Louvers: Provide sight proof, stationary louvers for Steel Doors where indicated, constructed of inverted V–shaped or Y shaped blades, formed of 24 ga. Cold–rolled steel, set into min. 20 ga. Steel frame. Exterior door louvers to include wire mesh insect screen.

SECTION 08210 - FLUSH WOOD DOORS

1. Furnish written warranties for all doors specified as part of the work of this section for life of original installation.

2. Door Materials:

a. General: Furnish doors, which meet or exceed NWMA Industry Standard I.S. 1_78 Series and AWI Section 1300–G–3 for Type PC or SLC–5.
b. Core: 1–3/4 inch thick, staved, low–density, bonded wood.
c. Fire Ratings: Doors noted to have specific hourly label shall be of Underwriter's Laboratories, Inc., labeled construction and shall bear the U.L.. label.
d. Face Veneer: Refer to Door Schedule on drawings for specific door's face veneer.
e. Crossband: Hardwood veneer.
f. Side Edges: Hardwood.
g. Top and Bottom Edges: Hardwood or softwood.
h. Adhesives:
1) Core Assembly: Type II (water_resistant).
2) Face Assembly: Type I (waterproof).

3. Fabricate to size and design indicated on the drawings, prefit for the openings and properly bevel. Prefit clearances shall be 1/8" at the top and both hinge and lock edge of door, with 1/8" clearance at the bottom. Provide flush edgings for wood doors receiving panic devices.

4. Hardware Preparation: Make all cutouts required for hardware at the factory from hardware manufacturer's templates and physical samples furnished by the contractor. Comply with the tolerance requirements of NWMA for prefitting.

5. Installation is specified in FINISH CARPENTRY. Hardware is specified in FINISH HARDWARE.

a. Clearances:
1) Allow maximum of 3/16" at jamb and head.
2) Allow maximum of 3/16" over threshold or saddle.
3) Allow maximum of ½" over decorative floor coverings.

b. Fire Rated Doors: Install in accordance with NFPA recommendations. Maximum clearances:
1) 1/8" between door and frame.
2) 3/8" between door bottoms and decorative floor finish.
3) 1/8" between doors for pairs of doors.

SECTION 08216 _ STILE AND RAIL GLAZED WOOD DOORS

1.Guarantee: Contractor shall guarantee doors for period of two years (from date of acceptance of project by Owner) against defects in materials and workmanship. Replace defective doors without additional cost to Owner, including charges for removal, installation, glazing and finishing.

2.Interior Doors: Products of "Lone Star Plywood and Doors", Whitney, Texas, Douglas Fir, style 1510, size shown on drawings, factory glazed with clear tempered safety glass.

3.Install all doors in accordance to manufacturer's instructions. Conform to AWI, ANSI/AWMA requirements for fit tolerances.

a. Maximum Diagonal Distortion: 1/16 inch measured with straight edge, corner to corner. Hang doors in frames not more than 3/32 inch at each side and head; clearance at bottom shall be ¾ inch or as required for thresholds. Adjust for smooth and balanced door movement. Door to come into full contact with stops when closed. Door shall swing quietly and easily and not strike floor at any point of swing.

SECTION 08306 - ACCESS PANELS

1. Manufacturer

a. The Drawings were prepared and this Specification written on the basis of using the products of J. L. Industries, Bloomington, Minnesota. It is not the intent to limit competitive bidding. Products with equal characteristics by other manufacturers are acceptable under the conditions of these Specifications.

2. Access Panels

a. Model "FD", flush mounted access panel, 24 x 24, UL 1–1/2 hour 'B' label, completely assembled as follows:
1. Material:
a. Door: 20 gage steel
b. Frame: 16 gage steel
2. Hardware:
a. Hinges: Continuous hinges open to 175 with spring closure.
b. Locks: Recessed turn ring with interior latch release devise.
3. Anchors: Manufacturer's standard for use intended.
4. Finish: Phosphate dipped steel with factory prime coat.

3. Installation

a. Protect access panels from damage. Protect work of other trades during installation. Install access panels in locations indicated, complete in all details, securely anchored in place, plumb, level and parallel with building lines. Finally installed access panels shall open and close freely.

SECTION 08410 - ALUMINUM ENTRANCES AND STOREFRONTS

1. Engineering Design:

a. Structural Properties: Fabricate and install work of this Section to withstand wind loads required by governing laws, ordinances, regulations and codes and with a maximum deflection of L/175.
b. Thermal Movement: Fabricate and install systems to provide for expansion and/or contraction of component materials as will be caused by temperature range of 150 degrees F without causing harmful buckling, opening of joints, undue stresses on fasteners, or other detrimental effects.
c. Water Leakage: Fabricate and install systems to deny water leakage; defined as appearance of water, other than condensation, on room side face of any part of systems.

2. Submit shop drawings of system proposed. Base on details shown on Drawings, and develop to serve as installation Drawings. Architect's acceptance is required prior to start of fabrication.

3. The Drawings were prepared and this Specification written on the basis of using the products of United States Aluminum, Waxahachie, TX. (972) 937–9651.

4. Storefront Framing:

a. "Series 451 Storefront System" for 1" insulating glazing system, size 2" x 4–1/2". "Center Glaze System", reinforced if required by engineering design.
b. Fasteners: Standard fastening screws shall be either stainless steel or carbon steel plated against electrolytic action.
c.Finish: Baked Enamel Finish; Color "redwood".
5. Doors and Hardware:

a. Series 400 Medium–stile door, offset hung, to match drawings, ½ inch thick tempered glass.
b.Fasteners: Standard fastening screws shall be either stainless steel or carbon steel plated against electrolytic action.
c. Hardware:
i.Pivots: Manufacturer's standard, center pivot.
ii. Closers: Manufacturer's standard concealed floor type, one each leaf.
iii. Panic Devices: Manufacturer's standard "paddle handle", one each leaf.
iv. Push–Pulls: Manufacturer's standard, one each leaf.
v. Dead Locks: Manufacturer's standard, one each single or pair.
vi. Lock Cylinders: Furnished as part of builders hardware.
vii. Thresholds: 4–inch wide aluminum, handicapped accessible (exterior only).
viii. Finish: Baked Enamel Finish; Color as noted on drawings.

6. Fabrication:

a. Storefront Framing: Fabricate and assemble in shop to greatest extent possible. Cut carefully and accurately. Use compression joints between vertical and horizontal mullions, with gasket of non–hardening butyl compound. Place standard water dam, in accord with manufacturer's recommendation, between vertical and horizontal members and seal with liquid butyl compound. Provide vision and spandrel areas with drainage to outdoors in horizontal member. Sizes of components and necessary field connections and fastenings required for installation; permit easy assembly by means of standard construction equipment and tools without use of special apparatus or appliances.
b. Doors: Fabricate doors with tight, hairline joints where rails are fitted against stiles, and fasten by means of tensioned steel tie–rods in top and bottom rails. Provide adjusting mechanism in top rail to provide for minor clearance adjustments. Glass stops; snap–in type with bulb type glazing strips. Weather–stripping; pile. Provide adjustable pile weatherstrip on one stile at meeting stiles of pairs of doors.

7. Preparation:

a. Where aluminum surfaces contact steel, other incompatible metals or concrete, protect aluminum by one of the following:
i.Paint incompatible metal or concrete with coating of heavy–bodied bituminous paint.
ii. Paint incompatible metal with prime coat of zinc chromate primer followed by two coats of aluminum metal paint or other suitable protective coating; exclude those containing lead pigmentation.
iii. Non–absorptive gaskets.
iv. Caulking between aluminum and incompatible metals.
v. If drainage from incompatible metal passes over aluminum, paint incompatible metal by method No. 2 above.

8. Installation:

a. General: Install true to line, plumb, level, square, and in proper planes with other work. Install free from sags, waves, buckles, or other objectionable defects. Anchor to resist stresses to which the work shall normally be subjected.
b. Hardware: Fit in accord with manufacturer's instructions. Install doors to operate smoothly and quietly after adjustment. Adjust door–closing devices immediately prior to final inspection. Install thresholds in two full beads of sealant compound (one along each edge) and fasten with color matching machine screws and expansion shields. One anchor will be required for each 24 inches of threshold length.
c. Glass and Glazing: Specified in other Sections.

SECTION 08710 - FINISH HARDWARE

1. General:

a. Submit for acceptance, six copies of full and complete FINAL HARDWARE SCHEDULE, indicating locations, quantities, types, numbers and/or sizes, functions and finishes for each item, only if substitutions are proposed.
b. After acceptance of FINAL HARDWARE SCHEDULE, hardware supplier to furnish Contractor with copies of schedule and templates for preparation of doors and frames to receive hardware.

2. Acceptable Manufacturers:

a.Hinges:
1)Hager Hinge Company
2)McKinney Products Company
3)Stanley Hardware Division
b.Blocks, Latches and Bolts:
1)Schlage Lock Company
c.Closers:
1)Dorma Door Control, Inc.
2)LCN Closers Division / Schlage Lock Company
d.Seals, Thresholds and Door Bottoms:
1)Pemko
e.Door Stops, Kick Plates, Holders and Viewers:
1)Hager
2)Ives
f.Panic Hardware:
1)Adams Rite
g.Push and Pulls:
1)Hawatha
2)Hager

3.Butt Hinges:

a.Comply with applicable requirements of ANSI A156.1
b.Use standard weight five knuckle, flush barrel hinges.
c.Use heavy weight hinges for doors over 40 inches wide.
d.Use full mortise hinges unless otherwise specified.
e.Hinge Pins: Unless otherwise indicated, use the following:
1) Steel Hinges: Steel Pins
2) Nonferrous Hinges: Stainless steel pins
3) Doors with keyed locks and exterior doors: Non–removable pins
4) Other Interior doors: Non–rising pins
f. Tips: Flat button with matching plug, finish to match leaves.
g.Quantity: Provide a minimum of 3 hinges on each door.

4. Piano Hinges:

a. Continuous Hinge #780–210, Universal Manufacturing Co. (800) 821–1414.

5. Locks, Latches and Bolts:

a.Bolt Locks: B Series
1) Single cylinder deadbolt with thumb turn, B460P, Schlage Lock Co.
b. Locksets:
1) Storeroom Lock: D80PG, Rhodes Design, Schlage Lock Co.
2) Entrance Lock: DP5–PD, Rhodes Design, Schlage Lock Co.
3) Storefront Lockset: Storefront Manufacturer's Standard two–point locking mechanism w/ Paddle type latch lock on interior.
i.Dead Bolt: 6 pin tumbler with cylinder guard, min. bolt projection of 1 ⅛ inch.
ii. Threshold Bolt: Metal automatic release type with min. embedment of 5/8 inch into floor.
4) Privacy Lock: D40S, Rhodes Design, Schlage Lock Co.
5) Store Lock: D66PD, Rhodes Design, Schlage Lock Co.
c. Cylinders: Minimum 6 pin tumbler cylinders.
1) Construct all parts of brass, bronze, stainless steel or nickel silver.
d. Flush Bolts: Lever extension Flush Bolts complying with ANSI A156.16, Grade 1.
1) Lower actuator centered 12 inches from door bottom, Upper actuator centered 72 inches from door bottom.
e. Strikes: Provide strike for each latch bolt and lock bolt.
1) Finish matching other hardware on door.
2) Use wrought box strikes with curved lip unless otherwise indicated.

6.Closers:

a.General:
1) Comply with Manufacturer's recommendation for size of closer based on size and weight of door, exposure to weather and anticipated frequency of use.
2) Size closer and adjust closer opening force to comply with applicable codes.
b.Surface Mounted Closers:
1) Comply with requirements of ANSI/BHMA A156.4, Grade 1.
2) Provide closers mounted on inside face of all doors.
3) Finish: Paint finish, color similar to finish on each door.
c.Concealed Closer, Storefront:
1) Overhead type, Storefront Manufacturer's standard type to suit application, finish to match door.

7.Seals and Thresholds:

a.Weatherstripping at Hollow Metal Frames:
1) At Jambs and Head: Pemko "Siliconseal" weatherstripping S88.
2) At Bottom: Doorshoe, Pemko 216AV.
b. Weatherstripping at Aluminum Storefront Entrances:
1) At Jambs and Head: Storefront Storefront Manufacturer's standard type to suit application.
2) At Bottom: Storefront Manufacturer's standard type to suit application.
c.Thresholds:
1) Formed to accommodate changes in elevation and to fit door hardware and frames. Width as required to match opening.
2) Threshold Types:
i.Threshold A: Pemko 255A
ii. Threshold A: Pemko 179AV
3) Sealant for setting thresholds: Butyl–Polyisobutylene sealant.

8.Door Stops, Kickplates, Holders, Bumpers and Viewers

a. Door Stops:
1) Wall Stop: Hager 255W
2) Floor Stop: Hager 261F
b.Kickplates: Ives 8400 Series, 10 inch and 24 inch height x Width of door minus 2 inches, Stainless Steel.
c.Floor Stop/Holders: Triangle Brass #1224
d.Viewer: Ives 698B26D "Fish Eye"
e.Wall Bumper: Triangle Brass # 1270CXCP

9.Panic Hardware:

a. Alarm Exit Device type: Detex V40XEB, US32D Finish (Requires mortise cylinder and standard cam).

10. Push and Pulls:

a.Aluminum Storefront Doors'
1) Pull: Hiawatha, HG122, US32D Finish.
b.Restrooms:
1) Push Plate: Hager 4 inch or 4 inch x 16 inch.
2) Door Pull: Hager 9L.

11. Lock Cylinders and Keying:

a.Keying: Obtain Owner's instructions for keying.
1) Key each lock differently.
2) Provide a new Master Key system.
3) Provide standard cylinders for locks on all doors, unless otherwise indicated.
b.Keys' Nickel Silver
1) Permanently inscribe each key with manufacturer's change symbol.
2) Provide individual change key for each lock which is not designated to be keyed alike with a group of related locks.
3) Provide 3 of each change key.
4) Each Master Key system: 5 Master Keys

JLL Architecture, LLC
200 East Randolph Drive
Chicago, IL 60601

51 West Third St, # 201
Tempe, AZ 85286
tel +1 480 626 6304
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CORPORATE:

DICKEY'S BARBECUE RESTAURANT, INC.
4514 COLE AVENUE, SUITE 1100
DALLAS, TX 75205
972.248.9899

SEAL

DICKEY'S - SAGINAW
2903 PIERCE ROAD
SUITE 109
SAGINAW, MI 48604

CLIENT : SMOKING CARDINALS, LLC
1113 CARRIE LYNN DRIVE
SAGINAW, MI 48706

DICKEY'S BARBECUE PIT est. 1941

MI-2197

DATE	DESCRIPTION
07/13/22	ISSUED FOR PERMIT

DATE	DESCRIPTION

SHEET TITLE
SPECIFICATIONS

SHEET NUMBER:
SP-1.2

JLLA PROJECT NUMBER:
DBQ-103

07/13/2022 - ISSUED FOR PERMIT

12. Fasteners:

a. Fasteners: Provide all fasteners required for secure installation.
b. Select fasteners appropriate to substrate and material being fastened.
c. Use Phillips flathead screws unless otherwise indicated.
d. Use fasteners impervious to corrosion outdoors and on exterior doors.
e. Exposed screws: Match hardware finish.
f. Do not use through-bolts where bolt head or nut on opposite face would be exposed in finish work.
   1) Where bolt head or nut is exposed in finishing work, provide the same finish as hardware on that side of door.

13. Finishes: All hardware to have 626, Satin Chromium Plated Finish, unless indicated otherwise.

14. Package each set separately, complete with trim, screws, bolts, nuts, washers, etc.; each package numbered with project name, number and corresponding hardware set number to correspond to door for which intended as listed on door schedule on drawings.

15. Install hardware in accord with manufacturer's instructions and requirements of ANSI/NFPA 80 and DHI. Use templates provided by hardware item manufacturer. Conform to ANSI A1117.1 and ADA for positioning requirements for the handicapped.

16. Unless required otherwise by applicable codes or shown otherwise on the drawings:

a. Top butts: 5 inches; top of butt from head of frame.
b. Bottom butts: 1 inch; finish floor to bottom of butt.
c. Middle butts: 3'-2"; centerline from finish floor.
d. Knobs: 3'-2"; centerline from finish floor.
e. Pulls: 3'-6"; centerline from finish floor.
f. Pushes: 4'-2"; centerline from finish floor.
g. Locks: 3'-2"; centerline from finish floor.

SECTION 08800 - GLAZING

1. Standards: Contractor determine and be responsible for actual systems(s) and materials to be used. FGJA "Glazing Manual" governs.

2. Manufacturer: Pecora Corporation, Harveysville, PA.

3. The following materials establish minimum quality standards. It is not intended to dictate or define systems to be used.

a. Glazing Compounds: "862-TBC" one part architectural silicone sealant.
b. Glazing Tapes: "Extru_Seal" tapes, pre_shimmed, tapered, string, etc.
c. Primer: As recommended by compound and/or tape manufacturer for use intended.
d. Elastomeric Glazing Beads, Seals, Wedges, Gaskets, Etc.: Framing system manufacturer's standard vinyl or neoprene.
e. Setting Blocks and Spacer Shims: Type and size recommended by FGJA for use intended.

4. Installation (Glazing)

a. Install units in accord with approved data and FGJA "Glazing Manual" recommendations, including but not limited to:
   1. Handling of glass.
   2. Application of compounds, tapes, etc.
   3. Installation of setting blocks and spacer shims.
   4. Final sealing.

SECTION 08810 - GLASS

1. Intent (Safety of Persons): Glazing subcontractor is responsible to comply with safety laws, ordinances and regulations, which control type of glass related to safety of persons. The drawings and specifications attempt to comply with such laws, etc., but in case of failure to comply, most restrictive requirement shall govern work of this section.

2. Glass sizes shown are approximate. Determine sizes and proper edge clearances by measuring actual opening to receive glass. Labels shall not be removed until final acceptance.

3. Glass:

a. Float (FG): 1/4 inch clear
b. Tempered (TG): 1/4 and 1/2 inch clear, tempered safety glass without visible clamp marks or "dimples".
c. Insulating (IGL): 1 inch, Solar Control Low-E, tinted insulating glass units by PPG Industries, Inc. composed of:
   - Outside Glazing: 1/4 inch Solarban 60
   - Airspace: 1/2 inch thick
   - Inside Glazing: 1/4 inch PPG Solarban 60 (Low E)
d. Mirror Glass: 1/4 inch quality polished plate glass, silver coated, and hermetically sealed with uniform coating of electrolytic copper plating.
e. Art Glass: Wizard Art Glass; Contact John Taylor (800) 438-9565. Color and Finish as noted on drawings.
f. Adhesive: Pecora 7HR4, Mirror Tac, one part adhesive specifically recommended by adhesive manufacturer for use intended.

DIVISION 9 - FINISHES

SECTION 09260 - GYPSUM BOARD SYSTEMS

1. Gypsum Panels – Types Required

a. Regular Board: ASTM C 36, tapered edges, thickness 5/8".
b. Ceiling board: ASTM C36, tapered edges, thickness 5/8".
c. Fire rated board: ASTM C36, Type X, tapered edges, thickness 5/8".
d. Water resistant board: ASTM C630, tapered edges, thickness 5/8".
e. Tile Backer Board: "Dens-Shield Firestop", type "X", 5/8" thick, non-structural, fiberglass-faced, silicone treated gypsum core panel.

2. Studs, Trim and Accessories

a. Metal Studs: Per ASTM C645, galvanized, size and gauges as noted on drawings. Track shall be one size heavier than studs.
b. Corner Beads, Control Joints, and Edge Trim: Per ASTM C1047, equal to USG #103 "Dur-A-Bead," #093 and #200-A respectively, galvanized; Unless otherwise detailed, exposed "J" trim is not acceptable.

3. Fasteners: Screws, per ASTM 1002; 1-1/4" Type "W" bugle head into wood framing, 1-1/8" Type "S" bugle head into steel framing, and 3/8" Type "S-12" pan (or low profile) head for steel to steel framing connections.

4. Joint Treatment Materials

a. Joint Tape: Paper-reinforcing tape, per ASTM C475.
b. Joint Compound: Provide chemical hardening type for bedding and filling, and ready-mixed vinyl type for topping, per ASTM C475.

5. Textured Finish: Equal to Gold Bond "Unical" one coat veneer plaster sand mix, toweled.

6. Metal Framing and General Gypsum Board Installation Requirements:

a. Metal Framing, Board Application and Finish Standards: GA216 and ASTM C754 and C840, Studding shall be 16" o.c. unless otherwise noted. Provide horizontal bracing at 4'-0" o.c. measured vertically. Frame door openings to comply with GA219.
b. Install ceiling boards in the direction and manner which will minimize the number of end-butt joints, and which will avoid end joints in the central area of each ceiling, Stagger end joints at least 4'-0".
c. Install wall/partition boards vertically to avoid end-butt joints wherever possible.
d. Locate either edge or end joints over supports. Stagger joints over different studs on opposite sides of partitions.
e. Space fasteners in gypsum board in accordance with referenced standards and manufacturer's recommendations, except as otherwise indicated.
   1. Parallel Application: 12" o.c. in field; 8" o.c. along edges.
   2. Perpendicular Application: 12" o.c. in field; 12" o.c. along edges.

7. Installation of Drywall Trim Accessories

a. Install metal corner beads at horizontal and vertical external corners of drywall work. Secure with screws; clinching is not acceptable.
b. Install metal control joint (beaded-type) where indicated at 30'-0" maximum centers in any wall or ceiling.

8. Finishing of Drywall:

a. Apply treatment at gypsum board joints (both directions), flanges of trim accessories, penetrations, fastener heads, surface defects and elsewhere as required to prepare work for decoration. Apply joint compound in 3 coats. Sand between last 2 coats and after last coat.
b. Water-resistant Gypsum Board Base for FRP and Ceramic Tile. Comply with recommendations of gypsum board manufacturer for treatment of joints.

9. Application of Texture Finish

a. Prepare and prime drywall and other surfaces in strict accordance with texture finish manufacturer's instructions.
b. Mix and apply finish to drywall and other surfaces indicated to receive finish in strict accordance with manufacturer's instructions to produce a uniform texture without starved spots or other evidence of the application, and free of application patterns.
c. Remove texture droppings from door frames, windows, and adjoining work.

SECTION 09320 - CERAMIC AND QUARRY TILE

1. Quality Assurance: Perform tile work in accordance with the requirements of ANSI-TCI 137.1, "Recommended Standard Specification for Ceramic Tile".

2. Ceramic and Quarry Tile:

a. Ceramic Tile: Refer to Finish Schedule on Drawings for manufacturer, color, size, pattern and grout color. Provide necessary caps, stops, coves, returns, trimmers and other shapes as required for a complete installation.

b. Quarry Tile: Quarry tile to be Metro Quarry Tile 6" x 6" tile double abrasive (in aisle); smooth (under equipment) with 6" cove base. All quarry base throughout store to be installed over tile backer board. Color: As noted on Finish Schedule on Drawings. Epoxy grout at dish area.

c. Waterproof membrane: Two-component liquid rubber latex with continuous fiberglass reinforcement equal to Laticrete 30/335.

3. Comply with applicable TCA installation methods for substrates indicated. Provide tile expansion joints at all construction and/or joints in the slab.

4. Mix and proportion pre-mix setting bad and grout materials in accordance with manufacturer's instructions.

5. Lay tile in grid pattern, parallel to walls. Lay out tile work and center tile fields in bath directions in each space at an each wall area so that no tiles less then 1/2 full tile will occur. Provide uniform joint widths.

6. All tile shall be brought to true and level planes with joints well filled and shall be secured firmly in place.

7. Cut and fit tile right to protrusions and/or perpendicular interruptions.

8. Sound tile after setting. Replace hollow sounding units.

9. Allow tile to set for a minimum of 48 hours prior to grouting.

10. Prohibit traffic from floor finish or activities near wall finish for 72 hours after installation. Protect the tile work from damage with Kraft paper or other heavy non-staining covering during the construction period.

11. Upon completion of placement and grouting, clean all ceramic tile surfaces so they are free of foreign matter. Acid solutions may be used when permitted by tile and grout manufacturer's printed instructions.

SECTION 09510 - ACOUSTICAL CEILINGS

1. Acoustical Panels:

a. Type 1 – Dining Rooms and Waiting Areas

   .1 Manufacturer: USG Interiors
   .2 Panels: "Eclipse Clima-Plus" Panel #76775
   .3 Size: 24"x 24" x 3/4"
   .4 Edges: Sloped Tegular edge
   .5 Suspension System: Donn DX
   a. Exposed, direct hung, per ASTM C635.
      b. Concealed grid member shall be electro-galvanized.
   .6 Finish: Ceiling tile and Suspension Grid ; White.

b. Type 2 – Kitchen Areas

   .1 Manufacturer: USG Interiors
   .2 Panels: #3270 Vinyl Faced Gypsum Panels, Class A fire rated
   .3 Size: 24"x 28" x 1/2"
   .4 Edges: Square cut
   .5 Suspension System: USG's "Donn AX" aluminum grid (white) with stainless steel locking tee ends.
      a. Exposed, direct hung, per ASTM C635.
      b. Concealed grid member shall be electro-galvanized.
   .6 Finish: Ceiling tile and Suspension Grid manufacturers standard white.

d. Structural Classification: Intermediate duty.
e. Provide fire rated grid where indicated or scheduled, or required by local codes.

2. Miscellaneous Materials:

a. Hanger Wire: Galvanized carbon steel wire, ASTM A641, soft temper, prestretched Class 1 coating, sized so that stress at 3-times hanger design load (ASTM C635, Table 1, Direct Hung), will be less than yield stress of wire, but provide not less than 12 gauge.

b. Edge Moldings and Trim: Metal of types and profile indicated or, if not indicated, provide manufacturer's standard molding for edges and penetrations on ceiling which fits with type of edge detail and suspension system specified.

3. Installation:

a. Install suspension systems to comply with ASTM C636. Locate hangers not less than 6" from each end and spaced 4'-0" along each carrying channel or direct-hung runner, unless otherwise indicated, leveling to tolerance of 1/8" in 12'-0". In kitchen areas, hangers shall be spaced 3'-0" along each carrying channel or direct-hung runner to obtain load capacity of 16 lbs/LF. Provide hanger wire at each corner of each recessed fluorescent fixture.

b. Secure wire hangers by looping and wire-tying, either directly to structures or to inserts, eye screws, or other devices which are secure and appropriate for substrate, and which will not deteriorate or fail with age or elevated temperatures.

c. Install hangers plumb and free from contact with insulation or other objects within ceiling plenum, which are not part of supporting structural or ceiling suspension system. Splay hangers only where required to miss obstructions and offset recruiting horizontal force by bracing, counter-splaying or other equally effective means.

d. Install edge moldings of type indicated at perimeter of acoustical ceiling area and at locations where necessary to conceal edges of acoustical units.

e. Clean exposed surface of acoustical ceilings, including trim, edge moldings, and suspension members; comply with manufacturer's instructions for cleaning and touch-up of minor finish damage. Remove and replace work that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.

SECTION 09660 - RESILIENT TILE FLOORING (VCT)

1. Furnish labor, materials, services, equipment and appliances required for resilient tile flooring work indicated on the Drawings and specified herein.

2. The Drawings were prepared and this Specification written on the basis of using the products of specific manufacturer's. It is not the intent to limit competitive bidding. Products with equal characteristics by other manufacturers are acceptable under the conditions of these Specifications.

3. Floor Tile: Refer to drawings for type and color.

4. Adhesive: As recommended by flooring manufacturer.

5. Conditions:
A. Temperature: Maintain minimum temperature of 70 F for 48 hours before, during and for 48 hours after installation of flooring. Do not install flooring when temperature is below 70 F.
B. Moisture Tests: After cleaning subfloors, spread small patches of adhesive in several locations and allow to set. If adhesive can be peeled easily from subfloor, repeat test at intervals until adhesive adheres tightly. Do not install flooring until adhesive adheres tightly to subfloor.
C. Surface to Receive Flooring: Sweep surfaces and clean free of paint, oil, wax, or other films which may affect adhesion. Fill cracks, rough areas, joints, and other surface defects in concrete subfloors. Grind ridges, trowel marks, and other surface projections smooth.

6. Installation:
A. Defer installation until work that might cause damage to flooring has been completed. Apply primer to evenly cover entire surface to receive flooring. Apply adhesive after primer has thoroughly dried. Application method and time allowed for setting in accord with tile manufacturer's instructions. Lay tile starting from axes that will produce equal width tile against opposite walls: not less than half tile width. Each tile entirely bonded to subfloor; in tight contact with surrounding tiles; joints aligned with room axes. Lay tile under fixtures. Change direction of graining in adjacent tiles.

7. Cleaning:
A. Upon completion, clean flooring; remove spots of adhesive, dirt and other contamination using cleanser recommended by flooring manufacturer.

SECTION 09679 - RESILIENT BASE (RUBBER)

1. Furnish labor, materials, services, equipment and appliances required for resilient base work indicated on the Drawings and specified herein.

2. Submit two 4-inch long samples of each type of base to the Architect for acceptance.

3. Manufacturer: The Drawings were prepared and this Specification written on the basis of using the products of Johnsonite, Chaquin Falls, Ohio, (800) 899-8916. It is not the intent to limit competitive bidding. Products with equal characteristics by other manufacturers are acceptable under the conditions of these Specifications.

4. Base: Refer to drawings for type and color.

5. Adhesive: As recommended by base manufacturer.

6. Conditions:
A. Temperature: Maintain minimum temperature of 70 F for 48 hours before, during and for 48 hours after. Do not install base when temperature is below 70 F.
B. Surface of Wall: Clean surfaces to receive base free from moisture, paint, oil, wax, or other films which may affect adhesion. Fill cracks, rough areas, joints, and other surface defects.

7. Installation:
A. General: Defer installation until work that might cause damage to base has been completed. Install "straight" base prior to installation of carpet. Install "cove" base after installation of adjacent floor surface.
B. Application:
   1. Adhesive: Apply in accord with base manufacturer's instructions; cover at least 75 percent of back of base.
   2. Base and Trim Pieces: Use molded inside and outside corners and stops where base terminates, as at doors. Install with tight joints with top and bottom edges in firm contact with walls and floors.
   3. Fitting: Tight_fit each joint, tops of adjacent pieces matched; each piece in contact with floor and adjacent piece or trim pieces.

8. Cleaning: Upon completion, clean base; remove spots of adhesive, dirt and other contamination with soft cloths using cleanser recommended by base manufacturer.

SECTION 09770 - Prefinished Wall panels

1. Manufacturer: Marlite, 202 Harger Street, Dover, Ohio 44622.

2. Panels:

a. Wall Panels: Product, Color and Patterns as noted on Drawings.

3. Accessories:

a. All molding and trim shall be pre-finished at the factory to meet site conditions per manufacturer's standard detailing.
b. Adhesive to be C-375 Marlite Construction Adhesive as required, to meet ASTM C557.
c. Sealant to be MS251 Marlite Silicon Sealant as required.

3. Preparation:

a. Pre-finished panels must be installed over a smooth, solid, flat sub wall assembly.
b. Do not begin installation until building is completely enclosed and interior conditions are being maintained as intended during occupancy; approximately 70 degrees F.
c. Cartons should be opened and allowed to acclimate to room conditions for at least 48 hours prior to installation.

5. Installation:

a. Install in strict accordance with manufacturer's written instruction, especially in regard to fastening system and bracket spacing necessary to achieve optimum capacity.
b. Avoid contamination of panel faces with adhesives, solvents or cleaners; clean as necessary and replace if not possible to repair to original condition.
c. Protect installed products until completion of project.

SECTION 09900 - PAINTING

1. Provide labor, materials, equipment and related items required to complete the exterior and interior items and surfaces throughout the project including filling, sealing, priming, and finishing.

2. Approval of colors must be obtained from the Owner before proceeding with work of this section. Unless otherwise specified, all undercoats shall be tinted slightly to approximate the finished colors and each subsequent undercoat shall be a different tome or value than the previous undercoat.

3. Mechanical and Electrical work to be painted includes the following (but not limited to):

a. Exposed piping and/or pipe insulation, inside and outside building.
b. Mechanical equipment and supports, including exposed ductwork, registers and grills.
c. Exposed conduit, boxes, and panel fronts.
d. Gas meter
e. Inside surfaces of all ducts, dampers and louvers as far back as visible from the room in which they open. Finish with two coats of Flat Black Paint.

4. Ensure surface temperatures and the surrounding air temperature are above 50 degrees F. before applying paint materials.

5. Provide adequate continuous ventilation and sufficient heating facilities to maintain temperature above 45 degrees F. for 24 hours before, during and 48 hours after application of paint and materials.

6. Provide minimum 25-foot candles of lighting on surfaces to be painted.

7. Acceptable Manufacturers

a. Sherwin Williams
b. ICI Dulux

8. Perform preparation, filling, sealing, sanding, and cleaning of surfaces scheduled to be painted in accordance with paint manufacturer's instructions.

9. Remove hardware and accessories, fittings, and fastenings, electrical plates, lighting fixture and similar items. Reinstall removed items after completion of painting.

10. Do not paint over dirt, dust, stains, rust, scale, oil, grease, moisture, scuffed surfaces, or other contamination or conditions detrimental to formation of a durable paint film.

11. Backprime woodwork as follows:

a. Exterior painted wood: "Latex Exterior Primer".

12. Apply paint in accordance with paint manufacturers instructions and as herein specified.

13. Apply each coat of paint at no less than spreading rate indicated in manufacturer's instructions.

14. Sand lightly between enamel coats.

15. Completely cover items/surfaces scheduled to be painted, to provide a smooth surface of uniform finish, color, appearance and paint material coverage free from cloudiness, spotting, holidays, laps, brush marks, runs, streaks, sags, ropiness and other surface imperfections.

16. Tentative Paint List: Where any particular application is not mentioned in this list, Contractor shall figure on application of manufacturer's specification for application which is consistent with types and qualities listed herein. Colors are indicated on drawings.

17. Exterior Surfaces

a. Wood Trim (Paint)
1st coat: Sherwin Williams – A100 Exterior Latex Wood Primer, B2W41 (4 mils wet, 1.4 mils dry)
2nd coat: Sherwin Williams – A100 Exterior Latex Satin, A82 Series
3rd coat: Sherwin Williams – A100 Exterior Latex Satin, A82 Series (4 mils wet, 1.4 mils dry per coat)

b. Wood "Stained"
1st coat: Refer to finish legend on drawings.
2nd coat: ICI Dulux No. 5035 Ultra-Hide Sanding Sealer
3rd coat: ICI Dulux Paste and Wood Filler
4th coat: ICI Dulux No. 82 Woodmaster Satin Sheen Urethane Varnish

c. Ferrous Metals and Exposed Gas Lines
1st coat: DTM Acrylic Primer/Finish, B66W1 (6 mils wet, 3 mils dry)
2nd coat: Sherwin Williams A100 Exterior Latex Satin, A82 Series
3rd coat: Sherwin Williams A100 Exterior Latex Satin, A82 Series (4 mils wet, 1.4 mils dry per coat)

Note: Omit first coat on materials already prime painted but touch up bare spots with Metal primer.

d. Stucco and EIFS:
1st coat: Sherwin Williams Loxon Conditioner (A24-100 Series)
2nd coat: Sherwin Williams A100 Exterior Latex Satin, A82 Series
3rd coat: Sherwin Williams A100 Exterior Latex Satin, A82 Series (4 mils wet, 1.4 mils dry per coat)

e. Concrete Unit Masonry (at service yard area – un-exposed to public view):
1st coat: Sherwin Williams Heavy Duty Block Filler, B42W46
2nd coat: Sherwin Williams Water Based Catalyzed Epoxy, B70 Series/ B60V25
3rd coat: Sherwin Williams Water Based Catalyzed Epoxy, B70 Series/ B60V25

f. Prepainted Equipment (Rooftop Equipment, Transformers, Etc.)
1st coat: Sherwin Williams A100 Exterior Latex Satin, A82 Series
2nd coat: Same as first coat.

18. Interior Surfaces

a. Wood Doors and Trim (Paint)
1st coat: Sherwin Williams PrepRite Classic Primer, B28W101 (4 mils wet, 1.6 mils dry)
2nd coat: Sherwin Williams ProMar 200 Latex Semi-Gloss B31W200 Series
3rd coat: Sherwin Williams ProMar 200 Latex Semi-Gloss B31W200 Series (4 mils wet, 1.5 mils dry per coat)

b. Wood Trim "Stained"
1st coat: Sherwin Williams – A100 Exterior Latex Wood Primer, B2W41 (4 mils wet, 1.4 mils dry)
2nd coat: Sherwin Williams – A100 Exterior Latex Satin, A82 Series
3rd coat: Sherwin Williams – A100 Exterior Latex Satin, A82 Series (4 mils wet, 1.4 mils dry per coat)

c. Woodwork Backpriming
One coat: Sherwin Williams ProMar Classic Interior Latex Primer, B28W100.

d. Gypsum Wallboard
1st coat: Sherwin Williams ProMar 400 Latex Wall Paint, B31-400 – Finish as scheduled
2nd coat: Sherwin Williams ProMar 400 Latex Wall Paint, B31-400 – Finish as scheduled

e. Ferrous Metal and Gas Lines
First: Remove all dirt, grease, oil, and scaly material.
1st coat: DTM Acrylic Primer/Finish, B66W1 (6 mils wet, 3 mils dry)
2nd coat: Sherwin Williams ProMar 200 Latex Eg-Shel, B20W200 Series
3rd coat: Sherwin Williams ProMar 200 Latex Eg-Shel, B20W200 Series (4 mils wet, 1.5 mils dry per coat)

f. Galvanized Metals:
First: Remove all dirt, grease, oil, and scaly material.
1st coat: S-W All Surface Enamel Latex Primer, A41W210
2nd coat: S-W ProMar® 200 Latex Eg-Shel, B20W2200 Series
3rd coat: S-W ProMar® 200 Latex Eg-Shel, B20W2200 Series

h. Wall Prep at areas to Receive Wall Fabric:
1st coat: S-W PrepRite® 200 Latex Primer, B28W200
2nd coat: S-W ProMar® 200 Latex Flat, B30W200 Series

19. Miscellaneous

a. Registers and Grills: Spray paint to match adjacent painted, stained or wallpapered walls and ceilings.
b. Recessed Lights: Paint recessed light fixture trim rings to match adjacent surfaces.
c. Paint light fixtures, plumbing vents and stacks projecting through roof to match adjacent roof material color.
d. Gas Meter: Paint to match adjacent building finish color.

DIVISION 10 - SPECIALTIES

SECTION 10442 - INTERIOR DOOR SIGNS

1. Design and Fabrication

a. All patterns for fabrication, regardless of production technique, method, or process specified, shall be approved by the Owner prior to production in order to ensure uniformity to design with regard to letter form and height, wording, spelling, capitalization, punctuation, letter spacing, leading and layout or composition.

2. The drawings were prepared and this specification written on the basis of using the products of Kroy Sign Systems, Scottsdale, Arizona. It is not the intent to limit competitive bidding. Products with equal characteristics by other manufacturers are acceptable under the conditions of these specifications.

3. General; Regulatory signage series opaque acrylic, matte finish plaques, with front surface hot stamp graphics, in low profile frame. Configuration shown on drawings to conform with Americans with Disabilities Act regulatory requirements.

4. Provide one sign (unit) for each restroom door opening for public facilities.

5. Installation shall be started at the time established by the General Contractor. However, no sign work shall be permitted in the building before the building is completely enclosed and all painting and work of other trades is finished.

6. Install signs in accord with approved shop drawings. Install true to line, plumb, level, square, in proper planes with other work and free from objectionable defects. Anchor to adequately resist all normally subjected stresses.

SECTION 10523 - PORTABLE FIRE EXTINGUISHERS

1. Section Includes Fire extinguishers and Mounting brackets

2. Provide new portable fire extinguishers which are UL listed and bear UL "Listing Mark" for type, rating, and classification of extinguisher indicated.

3. Dining Area Fire Extinguishers:

a. Provide where located on drawings, equal to J.L. Industries "Cosmic A" Series Model 5E, Class A, B, and C, cabinet-mounted 5 lb. capacity with nozzle. Approved equal fire extinguisher as manufactured by Larsen's Manufacturing Co., or Muckle Manufacturing Co. shall also be acceptable for use on this project.

b. Recessed cabinet with rolled edge trim: Model and Finish as noted on Drawings.

4. Kitchen Area Fire Extinguishers:

a. Provide a minimum of two, equal to J.L. Industries "Saturn – Model 15" wall-mounted, dry chemical type K rated, 6 lb. capacity fire extinguishers with pressure gauge.

b. Brackets: Equal to J.L. Industries "Mark Brackets, Model MB810" for Model 15 fire extinguisher.

6. Anchors: Non-corrosive types as required by wall conditions.

7. Mount in strict conformance with manufacturer's instructions; in locations noted on drawings and locations directed by local fire marshal.

SECTION 10800 - TOILET ACCESSORIES

1. All toilet accessories are furnished and installed by Contractor. Coordinate rough-in, openings and wood blocking.

2. Install fixtures, accessories and items in accordance with manufacturer's instructions, and where affected, at heights or locations for the handicapped as indicated or specified herein.

3. Install true, plumb and level, securely and rigidly anchored to substrate.

4. See Construction documents for accessories.

5. Baby Changing Stations to be furnished and installed by Contractor. This is a non-substitute item to be ordered from:

Koala Kare Products
6982 S. Quentin St.
Centennial, CO. 80112
Phone: 1-888-733-3456

6. Product: Horizontal Wall Mount Baby Changing Station: # KB100-00 Cream

DIVISION 11 - EQUIPMENT

SECTION 11400 - FOOD SERVICE EQUIPMENT (INSTALLATION)

1. Section includes installation of Owner provided food service equipment. This equipment shall be furnished, assembled, and set in place under separate contract, with final utility connection by General Contractor.

2. Related Sections

a. Mechanical and electrical services and final connections to equipment.

3. Owner will provide equipment manufacturer's installation instructions for Contractor's use.

4. Owner will provide equipment manufacturer's operation and maintenance data for Contractor's use.

5. Coordinate size of access and route to place of installation.

6. Owner Provided (By Owner):

a. Equipment scheduled on the drawings.
b. Mechanical refrigeration systems, including compressor units, condensers, evaporator coils, and control valves.
c. Motor starters.
d. Walk-in refrigerator/freezer thermostats.
e. Stainless steel trim strips, supports and connections, attachment devices, and accessories.

7. Contractor Provided: Refrigerant System Installation

a. Refrigerant Lines: Type "L" hard copper tubing.
b. Fittings: Wrought copper or brass designed for use with high temperature solder.
c. Piping Joints: Made with silver solder (Sil-Fos).
d. Piping: Properly suspended from an anchor to the structure with adjustable hangers 6' o.c. maximum.
e. Suction Lines: Size to have maximum pressure drop of two pounds in medium temperature systems, one pound in low temperature system.
f. Liquid Lines: Sized to give maximum pressure to prevent trapping of oil. Rigid insulation on all suction lines to be Armaflex insulation by Armstrong – 1" thick at medium temp., 1-1/2" thick at low temp. Refrigerant lines in PVC or EMT conduit to be sealed at both ends with Dow Corning 3-6548 silicone RTV foam.
g. Evacuation and Charging: After completion of the pressure test, the system shall be evacuated using an approved auxiliary vacuum pump. Connections for evacuations to be in accordance with manufacturer's recommendations.

8. Delivery, Handling and Storage

a. Delivery: Upon receiving equipment, check crates/cartons identification labels with receiving P.O.; assure correct item has been received.
b. Handling: Uncrate equipment in organized manner. Take care not to misplace loose parts, accessories, assembly and operating instructions, and warranty cars. Keep utility hookup notes and tags on equipment until after connections are made. Assemble in workmanship manner in accord with manufacturer's directions, taking care to make sure fasteners are tight and components are aligned and square.
c. Storage: Store equipment clear of floor in manner to prevent warping, twisting, or sagging.

9. Installation

a. Install items in accord with manufacturer's instructions and fabricator's shop drawings. Install in accord with local governing Health, Building, and Safety, and Fire Protection Codes and Regulations and NEMA, UL, AGA, ASME and NFPA.
b. Electrolysis: Insulate to prevent electrolysis between dissimilar metals. Provide sealant to achieve clean joint without crevices.
c. Equipment
1. General: Set in place and position per kitchen equipment plan; ready for utility hook up. After utility hookups are made, level and secure dishtables to slope toward dishwasher. Completely close and seal gaps, joints and seams between fixtures/equipment and walls, ceilings and floors with stainless steel trim strips and/or clear silicone sealant. Do not use sealant in joints or seams over 3/16 inch wide.
2. Refrigerant Piping: Install copper tubing and fittings. Cut with pipe cutters and reshape with sizing tool. Expose piping to view as required by American Standard Safety Code for Mechanical Refrigeration. For exposed areas or accessible furred ceiling spaces, use hard copper tubing. Run exposed tubing in such manner as to prevent damage from activities in areas; otherwise run tubing in pipe or conduit.
a. Suction Lines: Size to give max pressure drop from evaporator to machine of 2 lb. For high temp system and 1 lb. For freezer system, allowing gas velocities of not less than 750 rpm in horizontal runs and 1500 rpm in vertical risers. Size liquid lines to give max pressure drop of 3 lbs. from receiver to evaporator.
b. Tubing Runs: Grade to prevent trapping of oil.
c. Ties: Secure suction and liquid lines for each system together, except when run through conduit; 24 inch intervals with black plastic electrical tape.
d. Insulation: Insulate refrigerant suction lines outside of refrigerated compartments back to compressors.
e. Hangers and Supports: Provide adjustable hangers, anchors or straps required for proper support of piping not run in conduit. Space hangers not to exceed 10 feet o.c. and closer where required for proper support of small piping. Provide insulated refrigerant piping with approved type sleeves at hanger points.
3. Walk-in Cooler Freezer Boxes: Transit level floor screens prior to wall and ceiling panel erection. Seal wall and/or ceiling penetrations for electrical conduits and refrigeration lines, etc., to prevent frost and condensate build-up. Electrical conduits; on exterior of box.
4. Oil Separators: Provide low temperature operations of system, return line connected to top of crankcase above oil level. Provide exposed oil return lines with shut-off valves of packless stem type.
5. Evaporator Coils: Support by hangers utilizing fish plates on top of walk-in unit a full 4 inches clear from underside of ceiling panels.

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CORPORATE:

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4514 COLE AVENUE, SUITE 1100
DALLAS, TX 75205
972.248.9899

SEAL

DICKEY'S - SAGINAW
2903 PIERCE ROAD
SUITE 109
SAGINAW, MI 48604

CLIENT : SMOKING CARDINALS, LLC
1113 CARRIE LYNN DRIVE
SAGINAW, MI 48706

DICKEY'S BARBECUE PIT
est. 1941

MI-2197

DATE	DESCRIPTION
07/13/22	ISSUED FOR PERMIT

DATE	DESCRIPTION

SHEET TITLE
SPECIFICATIONS

SHEET NUMBER:
SP-1.3

JLLA PROJECT NUMBER:
DBQ-103

07/13/2022 - ISSUED FOR PERMIT