

# KITCHEN UPGRADES AT MERCERVILLE ELEMENTARY SCHOOL

60 REGINA AVENUE, HAMILTON, NJ 08619

FOR THE

## HAMILTON TOWNSHIP SCHOOL DISTRICT

90 PARK AVENUE, HAMILTON, NJ 08690



SUPERINTENDENT: DR. SCOTT ROCCO  
BUSINESS ADMINISTRATOR: MS. KATHERINE ATTWOOD  
DOE STATE PROJECT NUMBER(S): xxxx-xxx-xx-xxxx (TO BE DETERMINED)

SCHILLER AND HERSH ASSOCIATES, INC.  
M/E/P CONSULTING ENGINEERS



RAYMOND / RAYMOND ASSOCIATES  
FOOD SERVICE CONSULTANT

SPIEZLE ARCHITECTURAL GROUP, INC  
1395 YARDVILLE HAMILTON SQUARE ROAD  
SUITE 2A  
HAMILTON, NJ 08691  
Phone: 609.695.7400 Fax: 609.394.2274  
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CODE SUBMISSION: xxxx  
BID DATE: NOVEMBER 27, 2023

ISSUE FOR BID - 11/27/23

KITCHEN UPGRADES AT  
MERCERVILLE ELEMENTARY  
SCHOOL

22K113

DRAWING NUMBER:

CS.1

3" = 1'-0"  
1 1/2" = 1'-0"  
1" = 1'-0"  
3/4" = 1'-0"  
1/2" = 1'-0"  
3/4" = 1'-0"  
1/2" = 1'-0"  
1/4" = 1'-0"  
1/8" = 1'-0"  
1/16" = 1'-0"

### DEMOLITION KEYNOTES

#	DESCRIPTION
D1	EXISTING STEPPED FOOTING AND FOUNDATION WALL EXPOSED ABOVE FLOOR SURFACE. (SEE REFERENCE PHOTO)
D2	EXISTING KITCHEN EXHAUST FAN AND ASSOCIATED DUCT TO REMAIN.
D3	EXISTING UNIT VENTILATORS TO REMAIN.
D4	EXISTING DIAMOND-PLATE STEEL COVER TO GREASE INTERCEPTOR TO REMAIN.
D5	REMOVE AND SALVAGE EXISTING WARMING CABINET FOR REINSTALLATION.
D6	REMOVE AND SALVAGE EXISTING WASH SINK FOR FUTURE REINSTALLATION. TEMPORARILY CAP EXISTING PIPING.
D7	REMOVE AND SALVAGE EXISTING PREP TABLE FOR REUSE.
D8	REMOVE AND SALVAGE EXISTING DESK.
D9	REMOVE EXISTING PLASTIC LAMINATE COUNTERTOP AND CABINETS IN THEIR ENTIRETY. CAP EXISTING PLUMBING FOR FUTURE RECONNECTION.
D10	REMOVE EXISTING PLASTIC LAMINATE COUNTERTOP AND WOOD BASE CABINETS IN THEIR ENTIRETY.
D11	REMOVE EXISTING PLASTIC LAMINATE COUNTERTOP AND BASE AND WALL CABINETS IN THEIR ENTIRETY.
D12	REMOVE EXISTING RESILIENT FLOORING DOWN TO CONCRETE SLAB AND PREP SLAB FOR NEW FINISHES.
D13	REMOVE EXISTING MULTI-BAY STEAM TABLE IN ENTIRETY.

### GENERAL DEMOLITION NOTES

- DEMOLITION WORK INCLUDES, BUT IS NOT LIMITED TO THE WORK INDICATED HEREWITH AS COORDINATED WITH WORK OF ALL OTHER TRADES. AS INDICATED ELSEWHERE, AND AS REQUIRED TO ACCOMMODATE CONSTRUCTION. ALL DEMOLITION REQUIRED SHALL BE INCLUDED IN EACH CONTRACTOR'S BASE BID TO PERFORM AND COMPLETE CONSTRUCTION, UNLESS OTHERWISE INDICATED.
- ALL ITEMS DESIGNATED AS 'SALVAGED' SHALL BE PROTECTED AND TURNED OVER TO THE OWNER.
- ITEMS TO BE RELOCATED OR REINSTALLED SHALL BE AS INDICATED. SPECIAL CARE SHALL BE TAKEN SO AS NOT TO DAMAGE THESE ITEMS. THE CONTRACTOR SHALL COORDINATE THE STORAGE OF ALL SALVAGED ITEMS TO BE EITHER RELOCATED OR REINSTALLED WITH THE OWNER.
- LOCATIONS AND/OR ELEVATIONS OF EXISTING ITEMS AS SHOWN ON THE DRAWINGS ARE APPROXIMATE. RESPECTIVE TRADES SHALL FIELD VERIFY ALL LOCATIONS.
- WHEN A NEW WALL, CEILING, ROOF OR FLOOR ASSEMBLY IS INDICATED WHERE AN EXISTING WALL, CEILING, ROOF OR FLOOR ASSEMBLY EXISTS, THE EXISTING SHALL BE COMPLETELY REMOVED, WITH ASSOCIATED UTILITIES REMOVED AND CAPPED BEHIND THE SURFACES TO REMAIN. ALL DEPRESSIONS, INDENTATIONS, OR PROTRUSIONS LEFT AFTER THE REMOVAL OF ITEMS WHICH MAY INTERFERE WITH THE CONSTRUCTION SHALL BE REPAIRED, REPLACED OR REMOVED TO PROVIDE A SMOOTH TRANSITION BETWEEN NEW AND EXISTING SURFACES.
- CONTRACTORS SHALL VERIFY ALL CONDITIONS PRIOR TO COMMENCING DEMOLITION. SHOULD QUESTIONS OR DISCREPANCIES ARISE, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING. PRIOR TO PROCEEDING WITH DEMOLITION.
- WHERE OPENINGS ARE INDICATED TO BE MADE IN EXISTING MASONRY WALLS, OR EXISTING OPENINGS ARE TO BE INFILLED, THE CONTRACTOR SHALL TOOTH IN NEW MASONRY CONSTRUCTION TO MATCH ADJACENT COURSING.
- CONTRACTORS ARE RESPONSIBLE FOR SHORING, BRACING AND UNDERPINNING RELATED TO THE DEMOLITION, REMOVAL OR CUTTING OF ANY WALL, PARTITION, OR ANY OTHER LOAD-BEARING OR STRUCTURAL ELEMENT.

### BUILDING CODE DATA

2021 INTERNATIONAL BUILDING CODE, NEW JERSEY EDITION		
USE GROUP CLASSIFICATION:	(E) - EDUCATION	UNCHANGED
MIN. CONSTRUCTION TYPE REQ.:	IB UNSPRINKLERED	UNCHANGED
BUILDING HEIGHT:		UNCHANGED
NUMBER OF STORIES:		UNCHANGED
BUILDING AREA:		UNCHANGED
RENOVATIONS PER NJAC 5:23-6.5 and ALTERATIONS PER NJAC 5:23-6.6		

### APPLICABLE CODES (NJ)

- BUILDING SUBCODE (NJAC 5:23-3.14)
- INTERNATIONAL BUILDING CODE - 2021 NEW JERSEY EDITION
- NATIONAL STANDARD PLUMBING CODE - 2021
- NATIONAL ELECTRICAL CODE (NFPA 70) - 2020
- ENERGY SUBCODE - ASHRAE 90.1-2019
- INTERNATIONAL MECHANICAL CODE - 2021
- INTERNATIONAL FUEL GAS CODE - 2021
- REHABILITATION SUBCODE - NJUCS, SUBCHAPTER 6
- BARRIER FREE SUBCODE, ICC/ANSI A117.1-2017

### ABBREVIATIONS

CJ	CONTROL JOINT	CMU	CONCRETE MASONRY UNIT
CMF	COLD FORMED METAL FRAMING	DN	DOWN
DWG	DRAWING	EIS	EXTERIOR INSULATION AND FINISH SYSTEM
EL	ELEVATION	EQ	EQUAL
EJ	EXPANSION JOINT	EWC	ELECTRIC WATER COOLER
FD	FLOOR DRAIN	FE	FIRE EXTINGUISHER (BRACKET MOUNTED)
FE	FIRE EXTINGUISHER (BRACKET MOUNTED)	FC	FIRE EXTINGUISHER CABINET
FT	FOOT or FEET	FRTW	FIRE RETARDANT TREATED WOOD
FTW	FIRE RETARDANT TREATED WOOD	GALV	GALVANIZED
GSP	GROSS SQUARE FEET	HWB	GYPSUM WALL BOARD
HM	HOLLOW METAL	HP	HIGH POINT
HP	HIGH POINT	LP	LOW POINT
MAX	MAXIMUM	MIN	MINIMUM
MO	MASONRY OPENING	N/A	NOT APPLICABLE
NC	NOT A CONTRACT	NSF	NET SQUARE FEET
OC	ON CENTER	OD	OVERFLOW DRAIN OR OUTSIDE DIAMETER
OD	OVERFLOW DRAIN OR OUTSIDE DIAMETER	PTD	PAINT or PAINTED
PTW	PRESSURE TREATED WOOD	PVC	POLYVINYL CHLORIDE
RD	ROOF DRAIN	RENF	REINFORCED OR REINFORCING
RWC	RAIN WATER CONDUCTOR	SF	SQUARE FEET
TOS	TOP OF STEEL	TYP	TYPICAL
VF	VERIFY IN FIELD		

### MATERIAL SYMBOLS

	BRICK
	CONCRETE
	CONCRETE MASONRY UNIT (CMU)
	FIRE SAFING
	GYPSUM WALL AND/OR CEILING BOARD
	MORTAR / GROUT
	PLYWOOD
	RIGID INSULATION
	STEEL
	CONTINUOUS WOOD BLOCKING
	WOOD SHIM OR BLOCKING

### DRAWING SYMBOLS

	DETAIL IDENTIFICATION
	BUILDING SECTION IDENTIFICATION
	WALL SECTION IDENTIFICATION
	ELEVATION MARKS
	ROOM TAG
	REVISION NUMBER
	DATUM or ELEVATION MARK
	VIEW REFERENCE

### LIST OF DRAWINGS

DWG. NO.	TITLE
GENERAL	COVER
ARCHITECTURAL	
AI.1	FLOOR PLANS, NOTES, DETAILS AND LIST OF DRAWINGS
FS1.1	FOOD SERVICE PLAN, EQUIPMENT, SCHEDULE AND NOTES
FS1.2	FOOD SERVICE SPECIAL CONDITIONS PLAN, NOTES AND DETAILS
PLUMBING	
PI.1	PLUMBING FLOOR PLANS, NOTES AND SCHEDULES
ELECTRICAL	
EI.1	ELECTRICAL FLOOR PLANS

CODE REVIEW:

CERTIFICATE:



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ANGELA ALBERTO 2140105440  
SPEIZE ARCHITECTURAL GROUP, INC. 2140200000

SEAL:

CONSULTANTS:

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90 PARK AVENUE, HAMILTON, NJ 08690

FOR CODE REVIEW: xxxxx

REVISIONS:

REV.	REVISION NAME	DATE
1		

FOR BID: NOVEMBER 27, 2023

DRAWING TITLE:

FLOOR PLANS, NOTES,  
DETAILS AND LIST OF  
DRAWINGS

COMMISSION NUMBER:

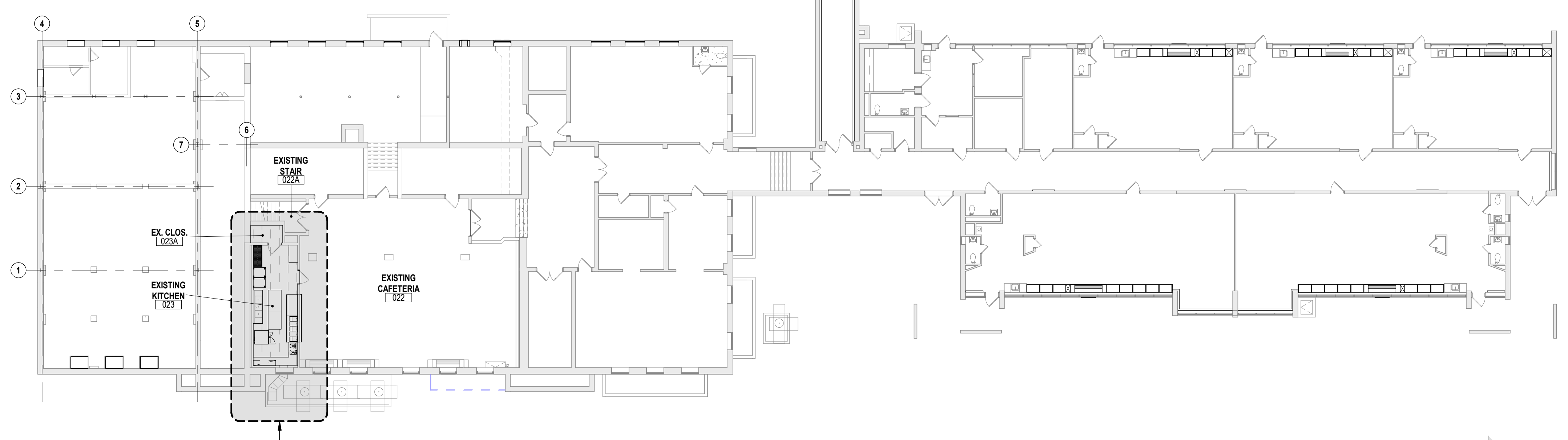
22K113

DO NOT SCALE THE DRAWINGS

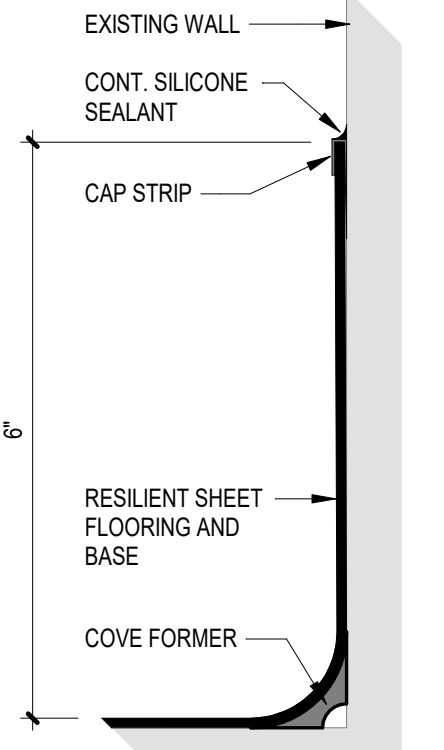
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A1.1

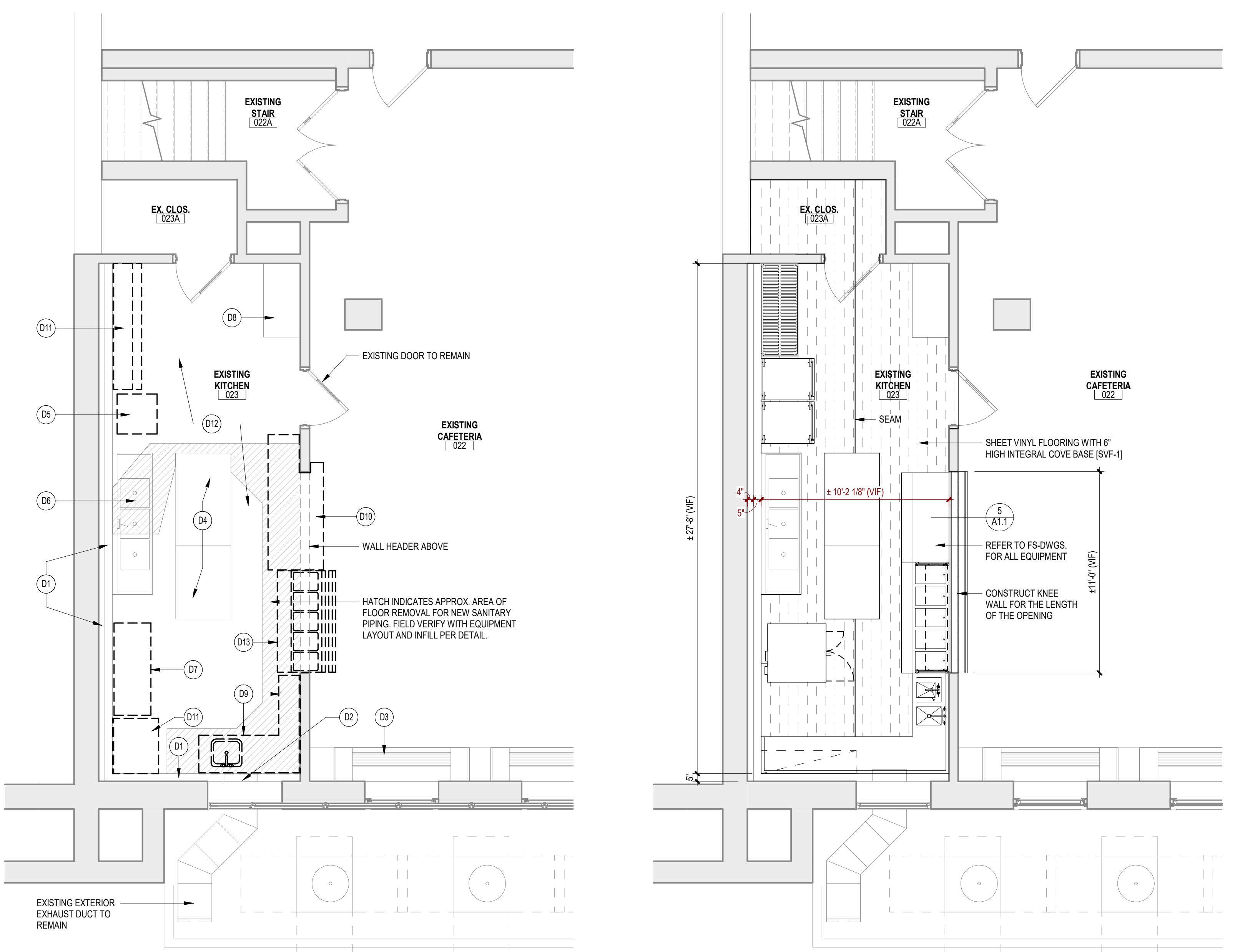
THIS DRAWING IS FORMATTED TO BE PRINTED AT 30"x42"



**A OVERALL BASEMENT PLAN**  
1/16" = 1'-0"



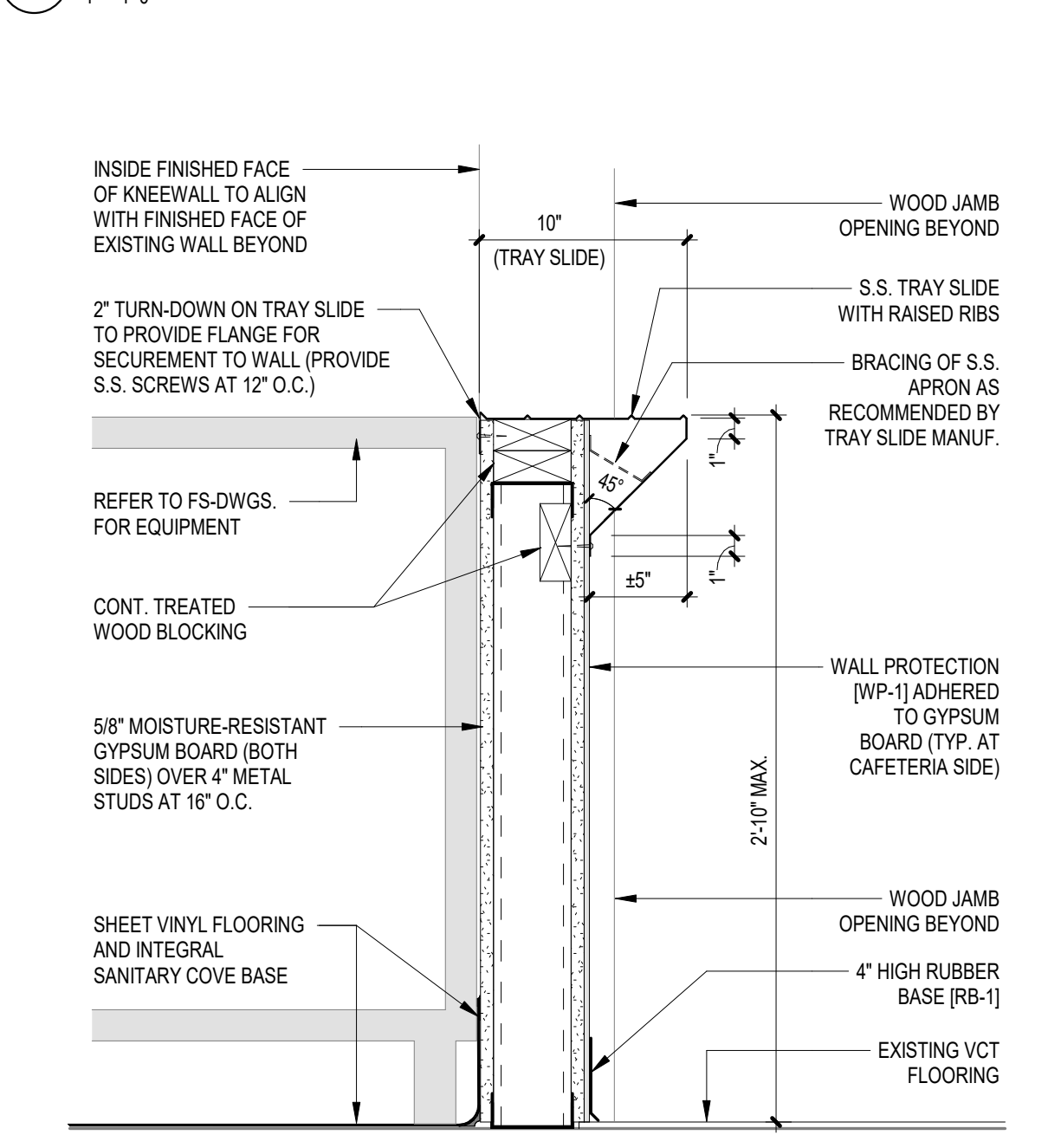
**3 BASE DETAIL**  
6" = 1'-0"



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

**2 BASEMENT FLOOR PLAN**  
1/4" = 1'-0"

**4 FLOOR TRENCH INFILL**  
1" = 1'-0"



**5 KNEEWALL DETAIL**  
1/4" = 1'-0"



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FOR CODE REVIEW: DOMM/YYYY

REVISIONS:	REVISION NAME	DATE
1		

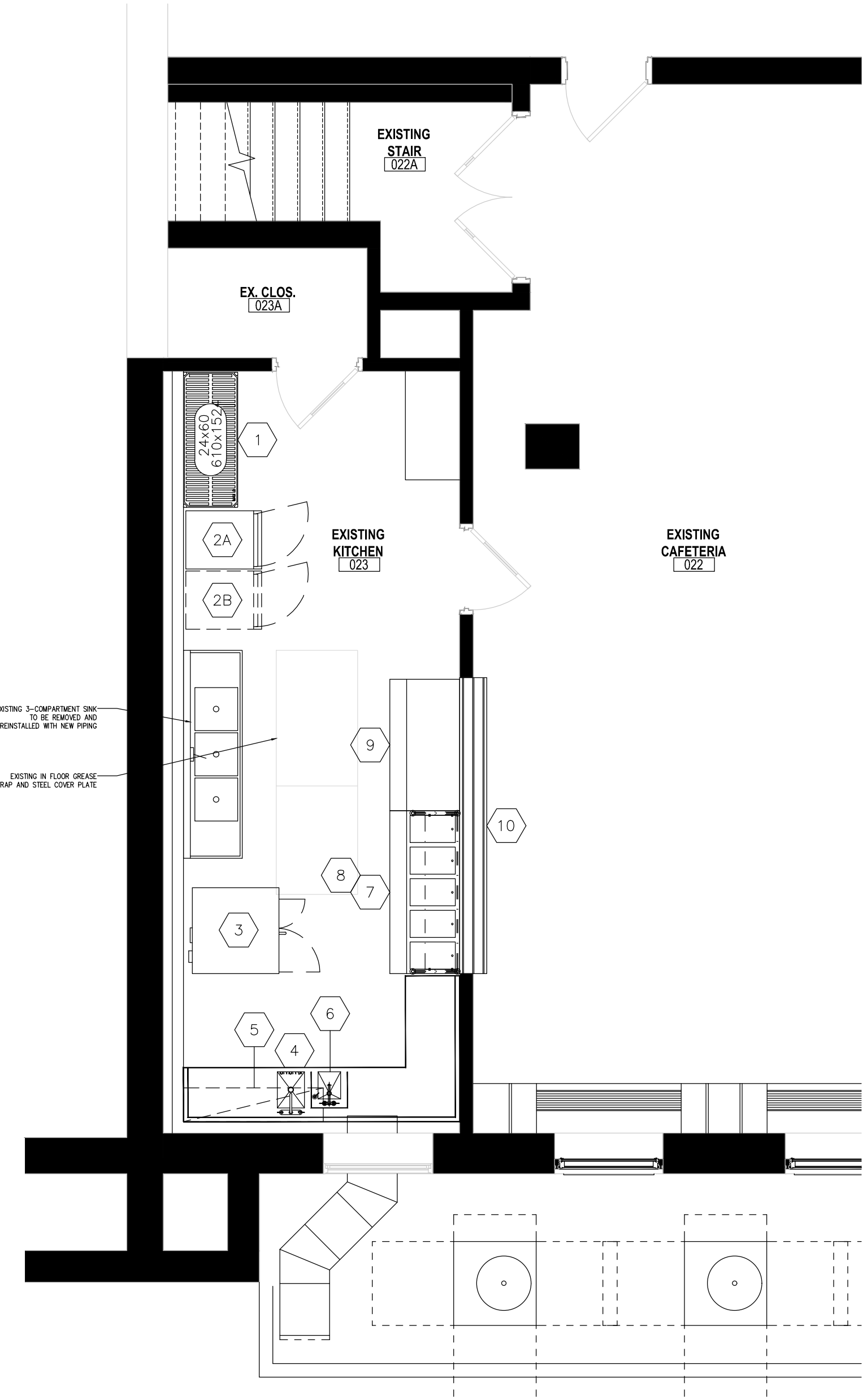
FOR BID: NOVEMBER 27, 2023

DRAWING TITLE:  
**FOOD SERVICE  
EQUIPMENT PLAN,  
SCHEDULE & NOTES**

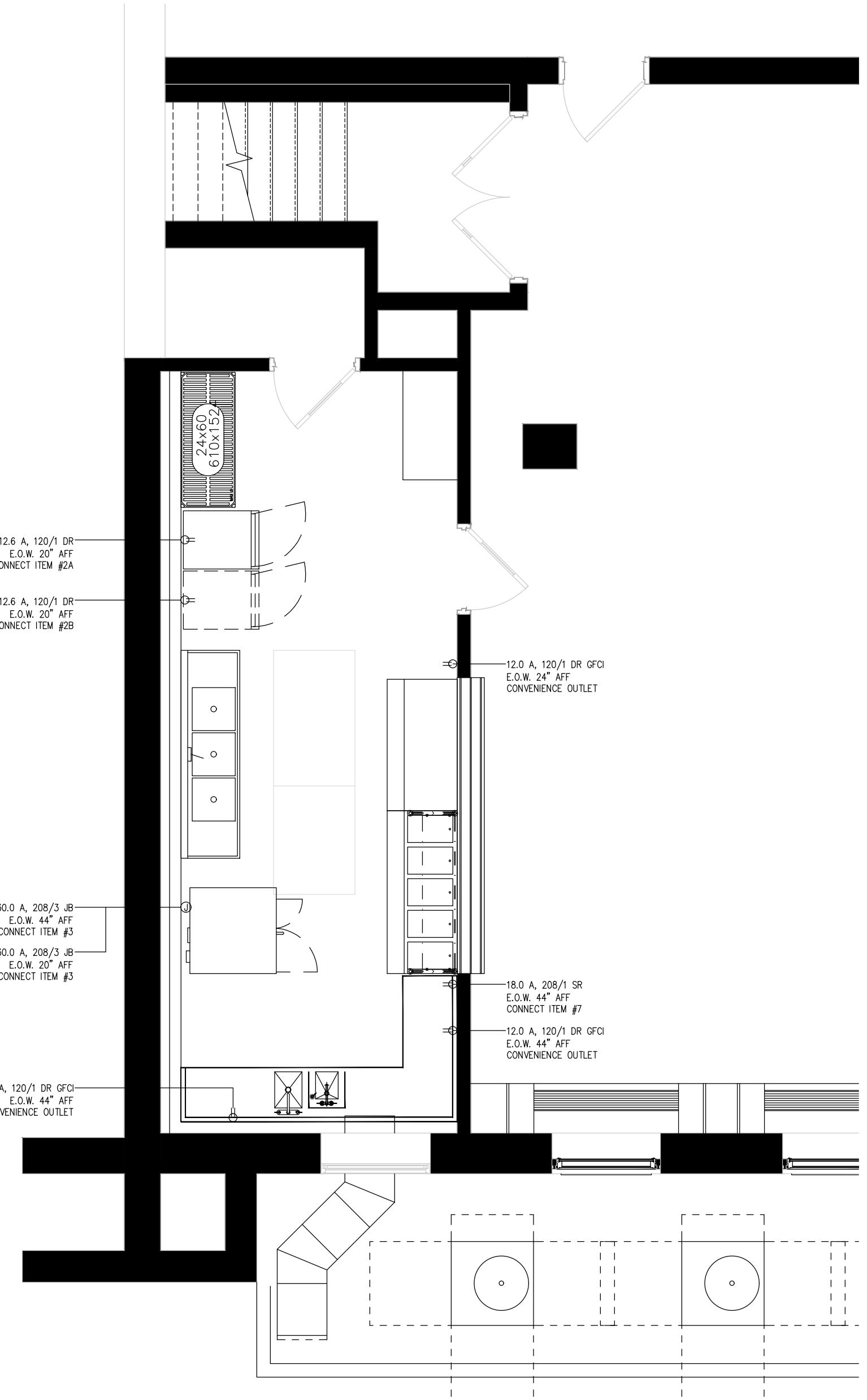
COMMISSION NUMBER:  
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DO NOT SCALE THE DRAWINGS

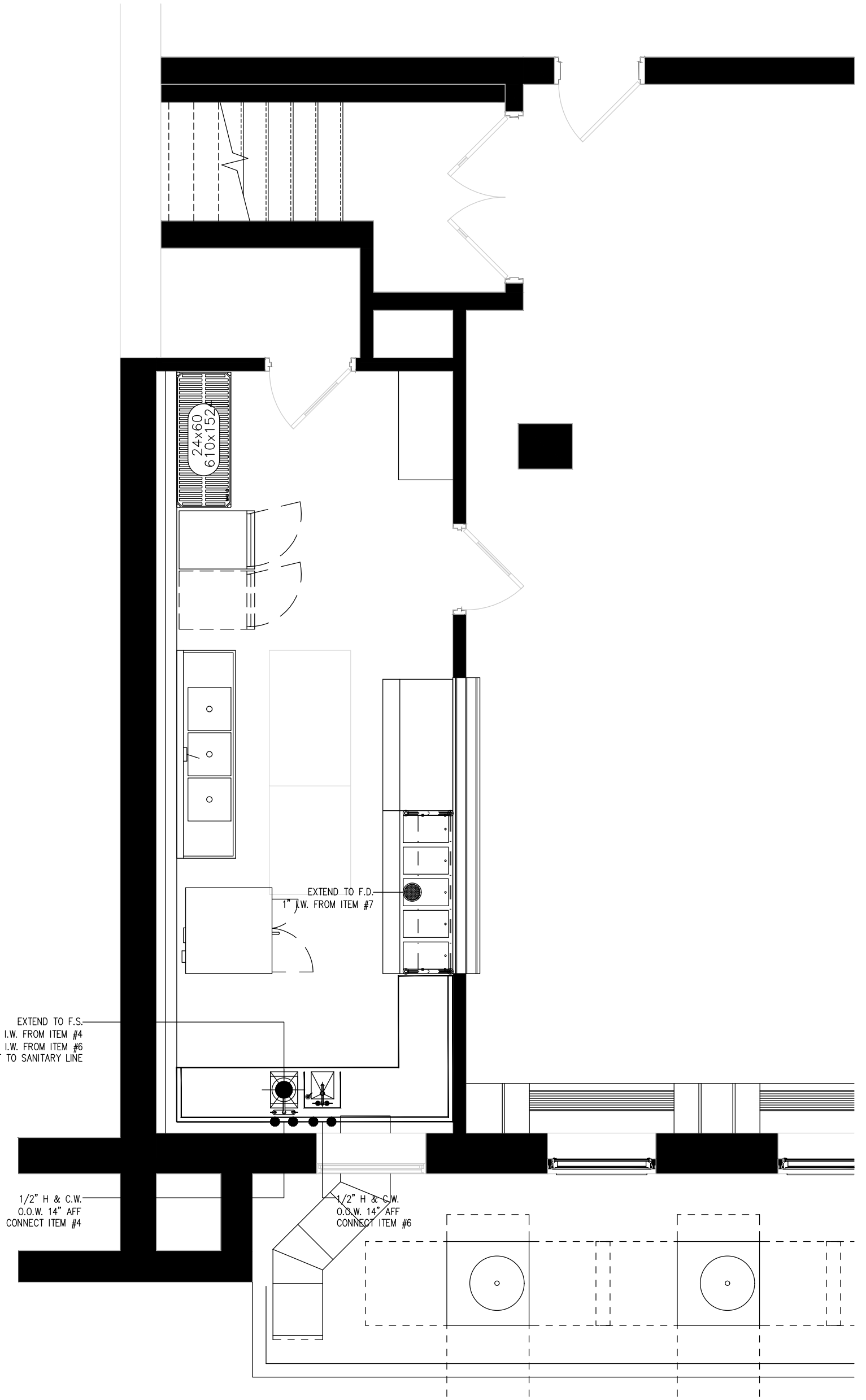
DRAWING NUMBER:  
**FS1.1**



**1 FOOD SERVICE EQUIPMENT PLAN**  
1/4" = 1'-0"



**1 FOOD SERVICE ELECTRICAL CONNECTIONS PLAN**  
1/4" = 1'-0"



**1 FOOD SERVICE PLUMBING CONNECTIONS PLAN**  
1/4" = 1'-0"

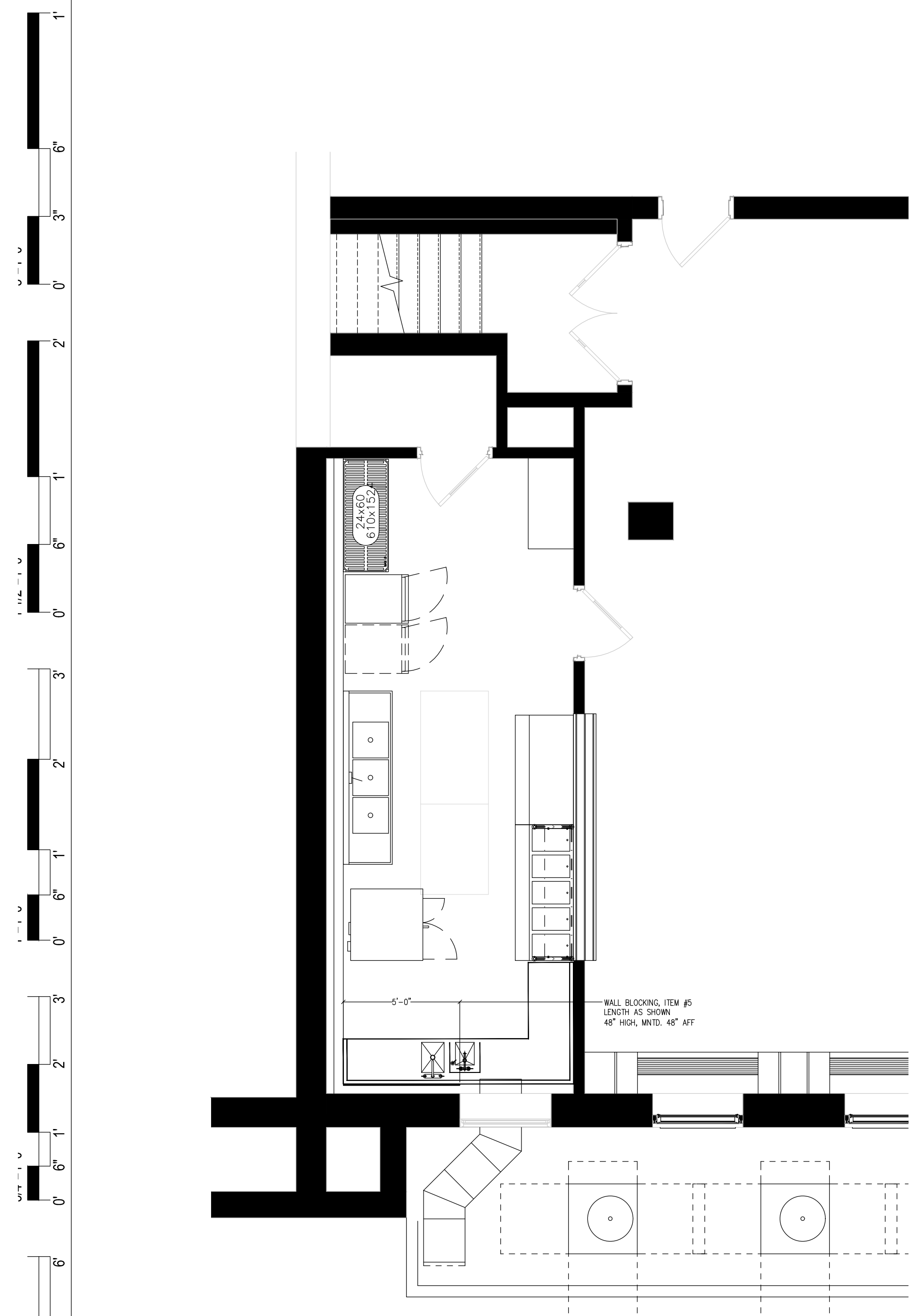
EQUIPMENT SCHEDULE																	
ITEM NO	EQUIPMENT CATEGORY	QTY	HOT WATER SIZE (IN)	COLD WATER SIZE (IN)	DIRECT DRAIN SIZE (IN)	INDIR. DRAIN SIZE (IN)	HP	KW	AMPS	PLUG	DIRECT	VOLTS	PHASE	NEMA	MANUFACTURER	MODEL NUMBER	EQUIPMENT REMARKS
1	STORAGE SHELVING, PORTABLE	1													METRO	MQ-246080G-MP-5	
2A	HEATED CABINET, MOBILE	1						1.5	12.6	X		120		1	5-15P	CRES COR	H-135-UA11R
2B	HEATED CABINET, MOBILE	1						1.5	12.6	X		120		1	5-15P	EXISTING TO BE REUSED	CRES COR H-135-UA11R
3	OVEN, CONVECTION, ELECTRIC	1						10.4	30.0		X	208		3		GARLAND	MCO-ES-20-S
4	WORK COUNTER W/ SINK	1	1/2	1/2		1-1/2									EMI NEW JERSEY	CUSTOM	
5	OVERSHELF, WALL MNTD.	2													EMI NEW JERSEY	CUSTOM	
6	HAND SINK, BUILT-IN	1	1/2	1/2		1-1/2									EMI NEW JERSEY	CUSTOM	
7	HOT FOOD COUNTER, PORTABLE	1						3.8	18.0	X		208		1	6-30P	PIPER PRODUCTS	DB-5-HF
8	FOOD PROTECTOR(S)	1													PREMIER METAL & GLASS	FM2N-G	
9	FLAT TOP COUNTER, PORTABLE	1													PIPER PRODUCTS	DB-4-ST	
10	TRAY SLIDE, WALL CAP MNTD.	LOT													PIPER PRODUCTS	SRTS-MOD	

ELECTRICAL LEGEND	
JB	JUNCTION BOX
DR	DUPLEX RECEPTACLE
SR	SIMPLEX RECEPTACLE
E.O.W.	ELECTRICAL OUT OF WALL
E.O.F.	ELECTRICAL OUT OF FLOOR
D.F.A.	DOWN FROM ABOVE
AFF	ABOVE FINISHED FLOOR
BTC	BRANCH TO CONNECTION
A	AMPS
HP	HORSEPOWER
kW	KILOWATT
E.C.	ELECTRICAL CONTRACTOR

ELECTRICAL NOTES:  
1) ALL WALL OUTLETS ARE FROM AFF TO BOTTOM OF BOX.  
2) E.C. TO CHECK ALL CONDITIONS AND VERIFY ALL DIMENSIONS PRIOR TO WORK.

PLUMBING LEGEND	
H.W.	HOT WATER
C.W.	COLD WATER
W	DIRECT WASTE
I.W.	INDIRECT WASTE
F.D.	FLOOR DRAIN
F.S.	FLOOR SINK
G	GAS
O.O.W.	OUT OF WALL
O.O.F.	OUT OF FLOOR
AFF	ABOVE FINISHED FLOOR
BTC	BRANCH TO CONNECTION
P.C.	PLUMBING CONTRACTOR

PLUMBING NOTES:  
1) P.C. TO PROVIDE HUB DRAINS FOR ALL INDIRECT WASTE LINES AND RETAIN AIR GAPS AS REQUIRED.  
2) P.C. TO CHECK ALL CONDITIONS AND VERIFY ALL DIMENSIONS PRIOR TO WORK.



**GENERAL CONTRACTOR NOTES:**

1. UNLESS OTHERWISE INDICATED, KITCHEN EQUIPMENT CONTRACTOR (K.E.C.) IS A SUBCONTRACTOR TO THE GENERAL CONTRACTOR.

**GENERAL MECHANICAL NOTES:**

- ROUGH-INS SHOWN ON THE FOOD SERVICE DRAWINGS ARE FOR EQUIPMENT BEING SUPPLIED BY KITCHEN EQUIPMENT CONTRACTOR ONLY. ADDITIONAL ROUGH-INS SHOWN OR NOT SHOWN ON THESE DRAWINGS FOR EQUIPMENT BEING RELOCATED, RE-USED OR SUPPLIED BY OTHERS WILL HAVE TO BE VERIFIED BY GENERAL CONTRACTOR PRIOR TO ROUGH-INS BEING INSTALLED.
- THE MECHANICAL PLANS, IF APPLICABLE, ARE PREPARED AS AN ACCOMMODATION AND GUIDE ONLY, TO INDICATE MECHANICAL REQUIREMENTS NECESSARY TO OPERATE THE EQUIPMENT. DEVIATIONS FROM THE MECHANICAL WORK SHOWN ON THESE PLANS AND EXECUTION OF SUCH WORK IS WITHOUT RESPONSIBILITY OF RAYMOND/ RAYMOND ASSOCIATES. DATA ON THIS SHEET IS TO BE REVIEWED BY OWNER AND/OR ARCHITECT AND IS TO BE INCORPORATED INTO THE BUILDING MECHANICAL PLANS IN ACCORDANCE WITH LOCAL CODES AT THE SITE.
- OWNER AND/OR ARCHITECT IS TO SUBMIT THIS PLAN SET TO LOCAL HEALTH DEPARTMENT FOR APPROVAL UNLESS OTHERWISE SPECIFIED.
- ALL EQUIPMENT DESIGNED AND SPECIFIED, PER THIS SET OF PLANS, BY RAYMOND/ RAYMOND ASSOCIATES, HAS THE UNDERWRITERS' LABORATORIES AND NATIONAL SANITATION FOUNDATION SEALS OF APPROVAL. AND IS TO BE FURNISHED AS SUCH BY THE KITCHEN EQUIPMENT CONTRACTOR.
- KITCHEN EQUIPMENT CONTRACTOR TO SET IN PLACE, EQUIPMENT AT THE SITE IN ACCORDANCE WITH THESE PLANS AND TERMS OF CONTRACT WITH OWNER.
- ALL PLUMBING, ELECTRICAL AND VENTILATION WORK, INCLUDING "ROUGH-INS, INTERCONNECTIONS BETWEEN COUNTERS, CONTROLS, SWITCHES, ETC.," AND "FINAL CONNECTIONS" TO THE EQUIPMENT, IS TO BE PERFORMED BY APPROPRIATE TRADES. IT IS NOT PART OF THE KITCHEN EQUIPMENT CONTRACTORS SCOPE OF WORK UNLESS OTHERWISE SPECIFIED.
- TO EXPEDITE AND INSURE PROPER INSTALLATION OF COOKING EQUIPMENT, IT IS RECOMMENDED THAT "ALL FINAL CONNECTIONS" ARE TO BE PERFORMED BY APPROPRIATE TRADES AT THE SAME TIME THE KITCHEN EQUIPMENT CONTRACTOR IS SETTING THE EQUIPMENT IN PLACE.

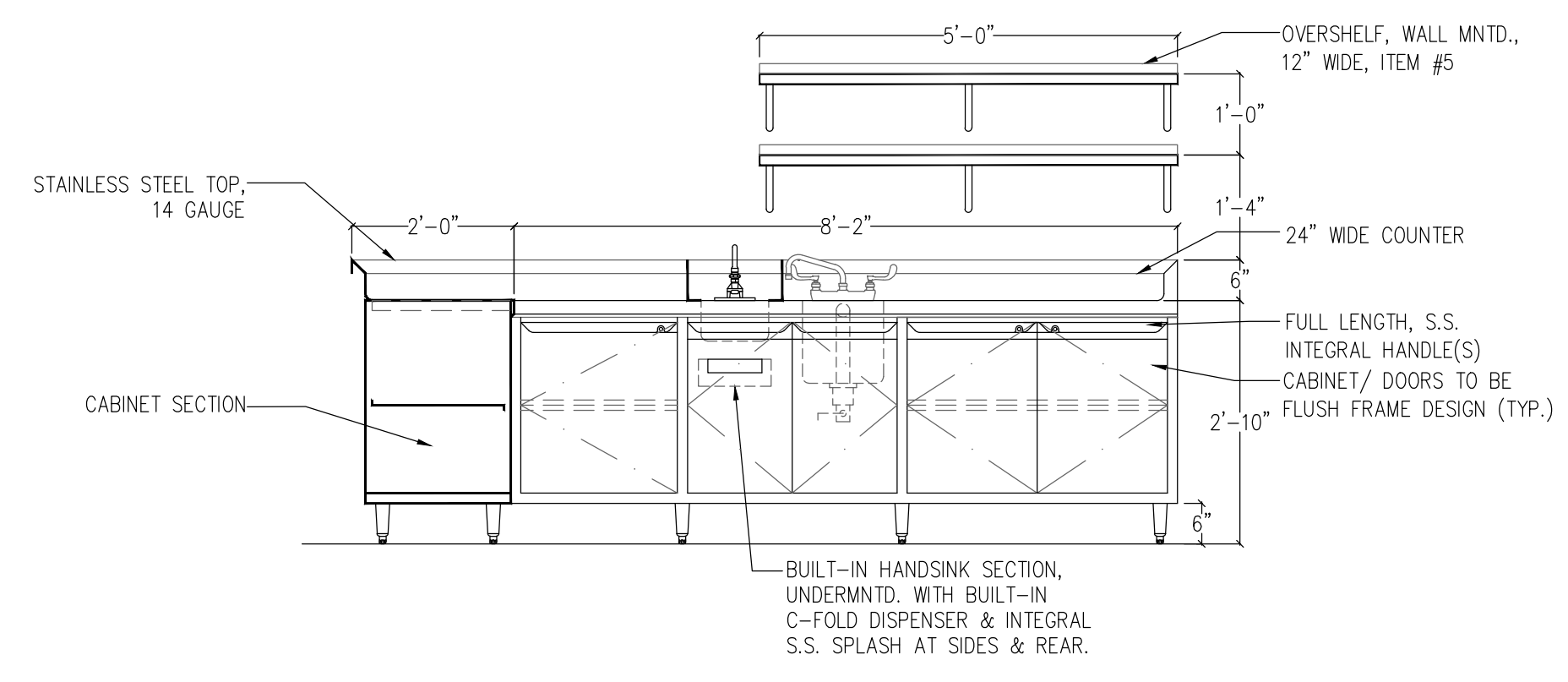
**PLUMBING CONTRACTOR NOTES:**

- PLUMBING ROUGH-INS SHOWN ON THE FOOD SERVICE DRAWINGS ARE "POINT OF CONNECTION" OR "CONNECTED LOAD" DRAWINGS ONLY. REFER TO ENGINEERING DRAWINGS FOR FURTHER DETAILS & INFORMATION.
- FURNISH & INSTALL SHUT-OFF VALVES ON THE INLET SIDE OF THE COLD & HOT WATER LINES SERVING EACH PIECE OF EQUIPMENT.
- IF WATER PRESSURE AT THE EQUIPMENT AREA EXCEEDS 50 POUNDS FLOW PRESSURE OWNER OR HIS CONTRACTOR MUST INSTALL A PRESSURE REDUCING VALVE ON BOTH THE MAIN HOT WATER & COLD WATER SUPPLY LINES SERVING THE AREA.
- OWNER OR THEIR CONTRACTOR MUST PROVIDE AN ADEQUATE SUPPLY OF 110° F HOT WATER, MINIMUM, TO ALL COOKING EQUIPMENT, DISHWASHER, BOOSTER HEATER, WORK SINKS, HAND SINKS, ETC.
- CHECK WITH LOCAL CODES TO DETERMINE WHAT EQUIPMENT IS TO BE PIPED THROUGH A GREASE TRAP. EQUIPMENT NOTED ON FOOD SERVICE CONTRACT DRAWINGS ARE REQUIRED/ RECOMMENDED AND SHOULD BE VERIFIED FOR COMPLIANCE.
- FURNISH & INSTALL ALL WATER LINES, DRAIN LINES, GAS LINES, MANIFOLDS, SHUT-OFF/GATE VALVES, PRESSURE REDUCING VALVES, BACKFLOW PREVENTERS, VACUUM BREAKERS, ETC. OR ANY OTHER PLUMBING DEVICE REQUIRED TO MAKE EQUIPMENT OPERATIONAL. THIS IS NOT PART OF THE KITCHEN EQUIPMENT CONTRACTORS SCOPE OF WORK UNLESS OTHERWISE SPECIFIED.
- EXTEND ALL WATER LINES, DRAIN LINES & ASSOCIATED VALVES FOR DROP-IN OR BUILT-IN EQUIPMENT WITHIN COUNTERS TO WORKING SIDE FOR EASE OF ACCESSIBILITY & USE.
- VERIFY, FURNISH & INSTALL REQUIRED PLUMBING ROUGH-INS FOR ALL EQUIPMENT BEING SUPPLIED.

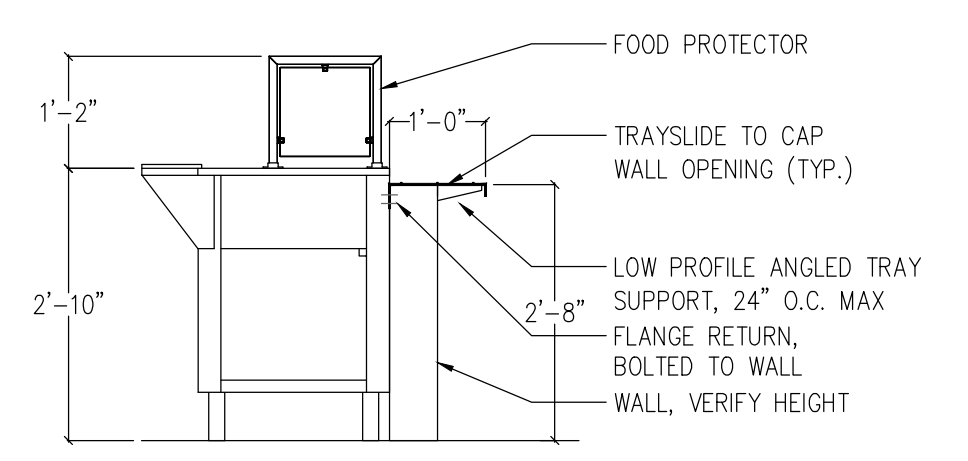
**ELECTRICAL CONTRACTOR NOTES:**

- ELECTRICAL ROUGH-INS SHOWN ON THE FOOD SERVICE DRAWINGS ARE "POINT OF CONNECTION" OR "CONNECTED LOAD" DRAWINGS ONLY. REFER TO ENGINEERING DRAWINGS FOR FURTHER DETAILS & INFORMATION.
- FURNISH & INSTALL REQUIRED CONVENIENCE RECEPTACLES AS PER LOCAL CODE HAVING JURISDICTION AND PER OWNERS REQUESTS/ NEEDS.
- VERIFY IF CONVENIENCE RECEPTACLES ARE TO BE GFCI PER LOCAL CODE HAVING JURISDICTION.
- MOUNTING HEIGHTS GIVEN ARE TO CENTERLINE OF DEVICE UNLESS OTHERWISE NOTED.
- FURNISH & INSTALL ALL RECEPTACLES, J-BOXES, SWITCHES, INTER-WIRING, DISCONNECT SWITCHES, MOTOR STARTERS AND/OR TRANSFORMERS OR ANY OTHER ELECTRICAL DEVICE REQUIRED TO MAKE EQUIPMENT OPERATIONAL. THIS IS NOT PART OF THE KITCHEN EQUIPMENT CONTRACTORS SCOPE OF WORK UNLESS OTHERWISE SPECIFIED.
- VERIFY, FURNISH AND INSTALL REQUIRED ELECTRICAL ROUGH-INS FOR ALL EQUIPMENT BEING SUPPLIED.

**1 FOOD SERVICE SPECIAL CONDITIONS PLAN**  
1/4" = 1'-0"



**ELEVATION OF ITEM #4**  
SCALE: 1/2" = 1'-0"



**SECTION AT ITEM #7**  
SCALE: 1/2" = 1'-0"

CODE REVIEW:

CERTIFICATE:



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ANGELA BERTI 2148104000  
JOHN J. WRIGHT 2148107000  
SPIEZE ARCHITECTURAL GROUP, INC. 2148100000

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FOR  
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90 PARK AVENUE, HAMILTON, NJ 08690

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REVISIONS:

REVISION NAME	DATE

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DRAWING TITLE:  
**FOOD SERVICE  
SPECIAL CONDITIONS PLAN,  
NOTES & DETAILS**

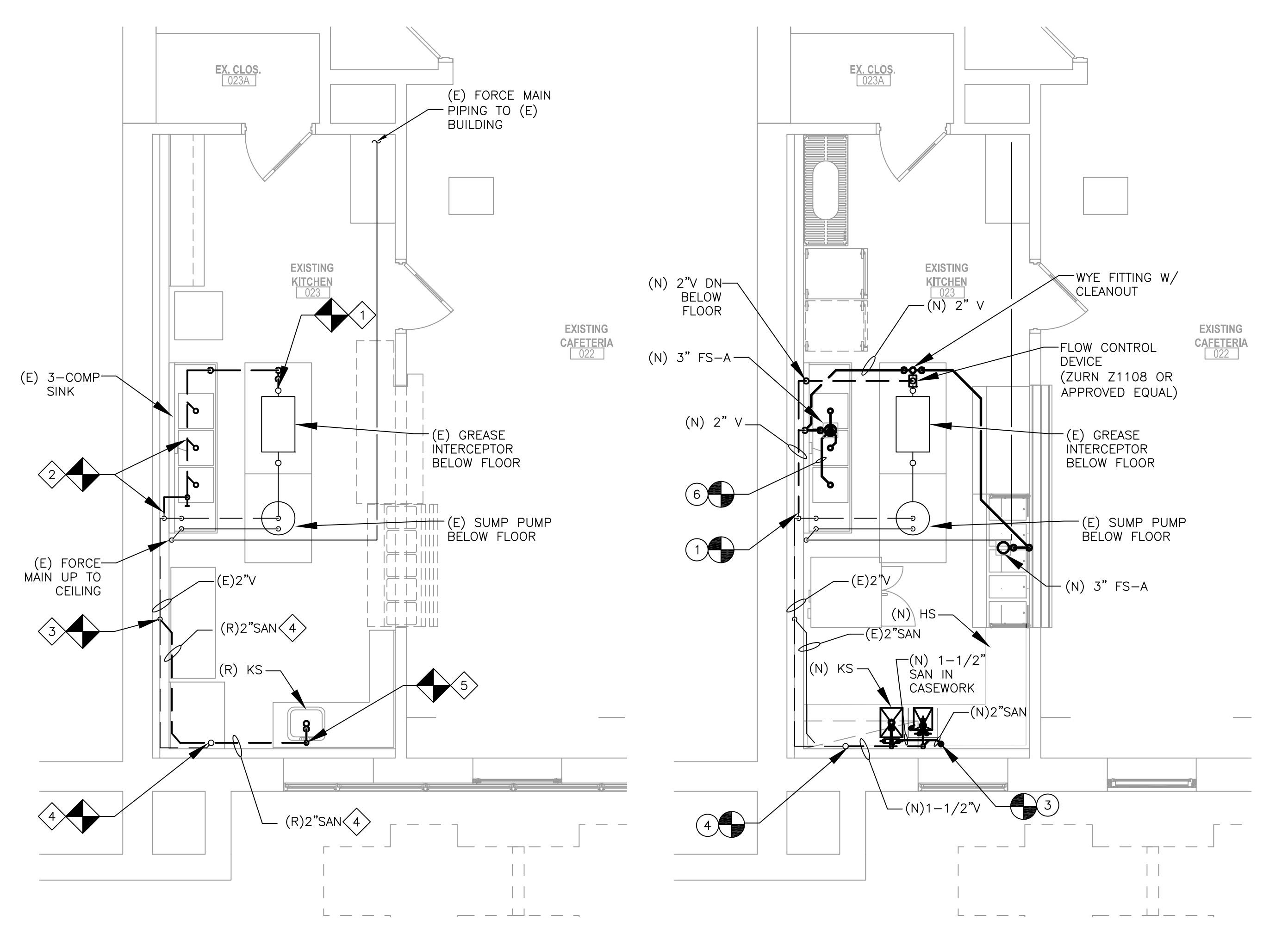
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DO NOT SCALE THE DRAWINGS  
DRAWING NUMBER:  
**FS1.2**

FLOOR PLANS

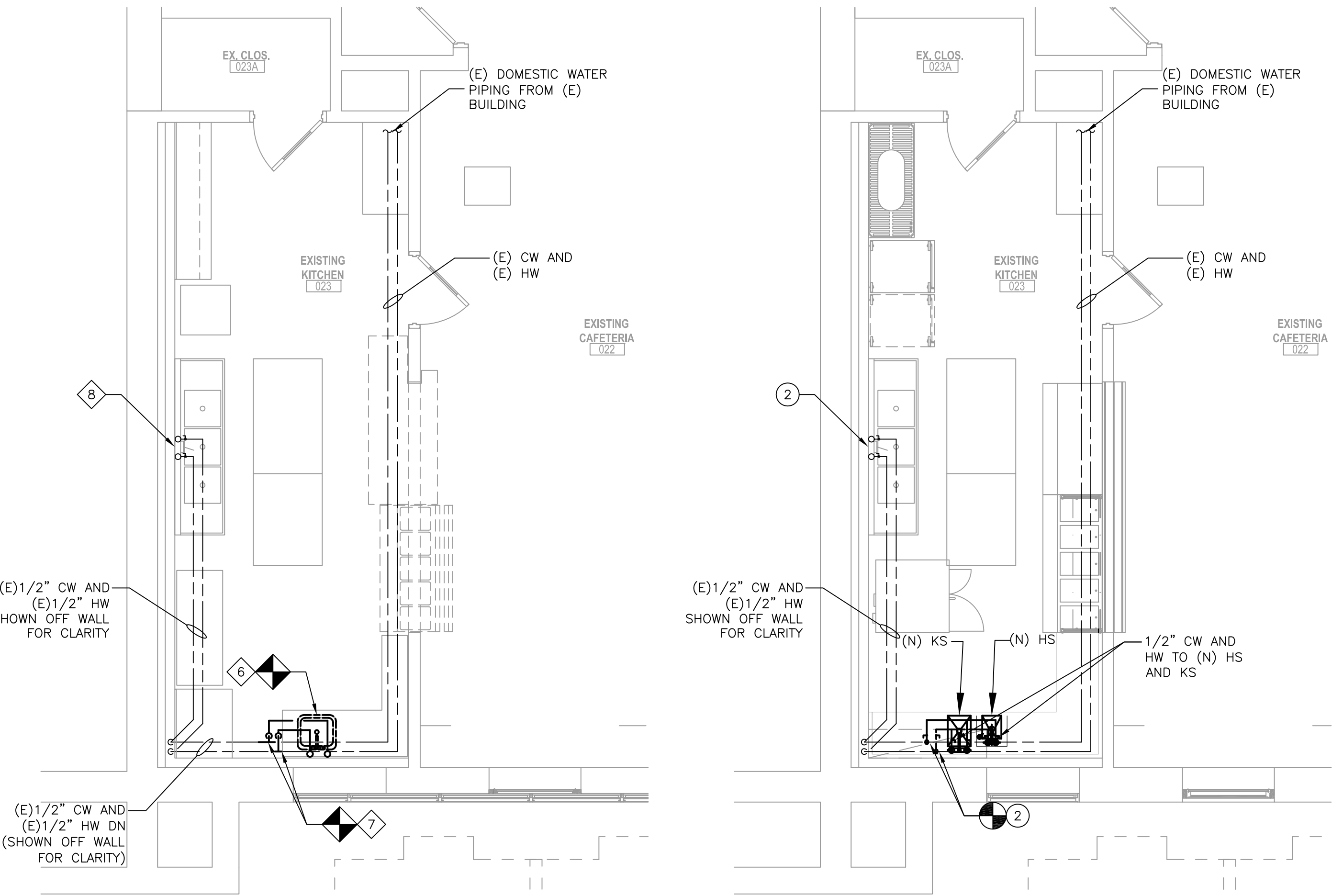
GENERAL DEMOLITION NOTES

PLUMBING SPECIFICATIONS



1 BASEMENT DEMOLITION PLAN - WASTE/VENT  
1/4" = 1'-0"

2 BASEMENT NEW WORK FLOOR PLAN - WASTE/VENT  
1/4" = 1'-0"



3 BASEMENT DEMOLITION PLAN - DOMESTIC WATER  
1/4" = 1'-0"

4 BASEMENT NEW WORK FLOOR PLAN - DOMESTIC WATER  
1/4" = 1'-0"

NO.	DESCRIPTION	MOUNTING	REMARKS	MANUFACTURER & MODEL NO.
FS-A	FLOOR SINK	FLOOR	-	JAY R. SMITH MODEL 325-335 FLOOR SINK, 12" SQUARE BODY WITH FLANGE, 6" DEEP LIGHT DUTY, CAST IRON RECEPTOR (BODY) WITH A WHITE ACID RESISTANT ENAMEL INTERIOR, SEEPAGE FLANGE, ANCHOR FLANGE, BOTTOM OUTLET, BODY INCLUDES ANTI-SPLASH DOME STRAINER.

NOTES:  
OR APPROVED EQUAL

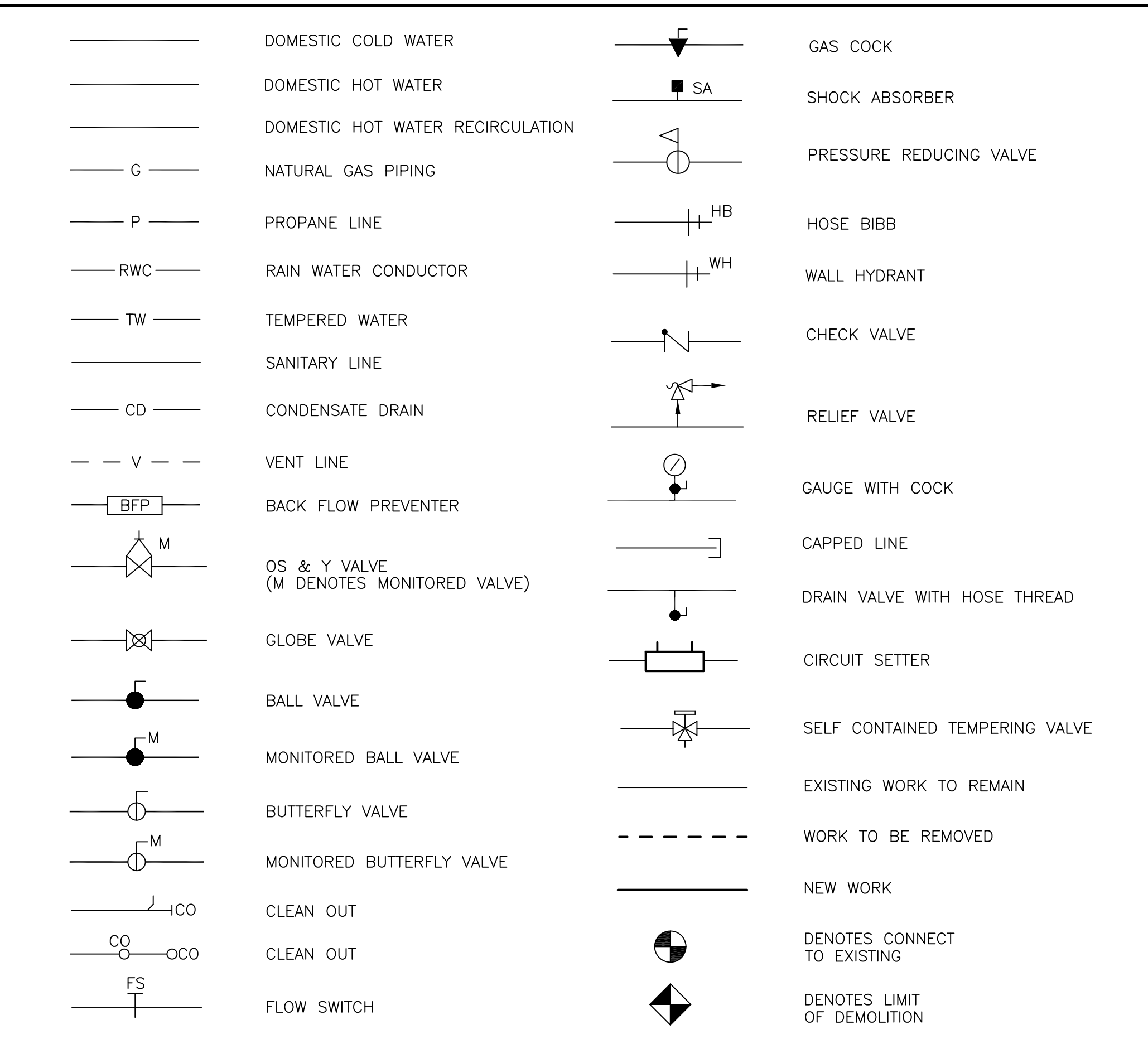
KEY NOTES

- DEMOLITION PLAN KEY NOTES:**
- REMOVE WASTE PIPING, INCLUDING TRAP AND ALL WASTE APPURTENANCES TO CLEANOUT ON GREASE INTERCEPTOR.
  - REMOVE ALL WASTE AND VENT PIPING FROM 3-COMP SINK THROUGH FLOOR WHERE SHOWN ON PLAN.
  - REMOVE WASTE AND VENT PIPING, INCLUDING ALL WASTE/VENT UP TO (E) VENT FITTING FOR SUMP PUMP/SINK/GREASE INTERCEPTOR ALONG WALL. REPLACE (E) VENT TEE FITTING WITH ELBOW.
  - REMOVE WASTE PIPING, TO AND INCLUDING (E) WASTE/VENT TEE FITTING AT FLOOR.
  - REMOVE SINK, WASTE AND VENT PIPING, INCLUDING TRAP AND ALL WASTE APPURTENANCES. REMOVE PIPING TO 6" AFF FOR CONNECTION OF PROPOSED SANITARY PIPING.
  - REMOVE SINK TRIM AND HW, CW, PIPING, INCLUDING CONNECTIONS FROM SINK FAUCET AND APPURTENANCES. PIPING TO BE REMOVED TO SHUT OFF VALVES AT WALL.
  - REMOVE COLD AND HOT WATER BRANCHES TO (R) SINK. TEMPORARILY CAP MAINS FOR NEW COLD AND HOT WATER BRANCHES.
  - TEMPORARILY DISCONNECT (E) HW/CW FOR REMOVAL OF (E) 3-COMP. SINK.
- NEW WORK PLAN KEY NOTES:**
- CONNECT (N) VENT TO (E) VENT TEE FITTING ALONG WALL. CONTRACTOR TO VERIFY SIZE OF EXISTING VENT AT CONNECTION.
  - CONNECT NEW CW AND HW PIPING BRANCHES DN FROM (E) PIPING AT CEILING. ROUTE NEW 1/2" HW & CW TO NEW SINK FROM (N) SHUT OFF VALVES ALONG WALL.
  - CONNECT (N) 2" WASTE TO (E) WASTE LINE ABOVE FLOOR.
  - CONNECT (N) 1-1/2" VENT TO (E) VENT LINE ALONG WALL.
  - RECONNECT (E) HW/CW AFTER REINSTALLATION OF (E) 3-COMP. SINK.
  - CONNECT (N) 1-1/2" SAN FROM EACH (E) SINK COMPARTMENT AND ROUTE TO (N) FLOOR SINK WITH AIR GAP.

ABBREVIATIONS

AB	ABANDONED	HS	HAND SINK	SS	SERVICE SINK
AD	AREA DRAIN	HW	DOMESTIC HOT WATER	SH	SHOWER
AFF	ABOVE FINISHED FLOOR	HWH	HOT WATER HEATER	SK	SINK
BFP	BACK FLOW PREVENTER	HWR	HOT WATER RECIRCULATION	ST	STORM
CA	COMPRESSED AIR	KS	KITCHEN SINK	SW	SAFE WASTE
CO	CLEAN OUT	MC	MECHANICAL CONTRACTOR	TW	TEMPERED WATER
CW	DOMESTIC COLD WATER	MH	MANHOLE	UR	URINAL
DF	DRINKING FOUNTAIN	MR	MOP RECEPTOR	VTR	VENT THRU ROOF
DN	DOWN	NC	NEW WORK	V	VENT
DW	DISHWASHER	N	NORMALLY CLOSED	W	WASTE
(E)	EXISTING	NO	NORMALLY OPEN	WC	WATER CLOSET
EC	ELECTRICAL CONTRACTOR	NTS	NOT TO SCALE	WCO	WALL CLEANOUT
EWC	ELECTRIC WATER COOLER	NIC	NOT IN CONTRACT	WH	WALL HYDRANT
FAI	FRESH AIR INLET	PC	PLUMBING CONTRACTOR	IW	INDIRECT WASTE
(F)FD	FUTURE FLOOR DRAIN	PRV	PRESSURE REDUCING VALVE	LAV	LAVATORY
FD-A	FLOOR DRAIN (A - INDICATES TYPE)	R	REMOVE	MAX	MAXIMUM
FU	FIXTURE UNIT	RD	ROOF DRAIN	MIN	MINIMUM
GC	GENERAL CONTRACTOR	RWC	RAIN WATER CONDUCTOR		
G	GAS	SA	SHOCK ABSORBER		
HB	HOSE BIBB	SAN	SANITARY		

SYMBOL LEGEND



CODE REVIEW:

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PROJECT:

KITCHEN UPGRADES AT  
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ELEMENTARY SCHOOL  
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HAMILTON TOWNSHIP  
SCHOOL DISTRICT  
90 PARK AVENUE, HAMILTON, NJ 08690

FOR CODE REVIEW:

NOVEMBER 27, 2023

FOR BID:

NOVEMBER 27, 2023

DRAWING TITLE:

PLUMBING  
FLOOR PLANS,  
NOTES, AND SCHEDULES

COMMISSION NUMBER:

22K113

DO NOT SCALE THE DRAWINGS

DRAWING NUMBER:

P1.1

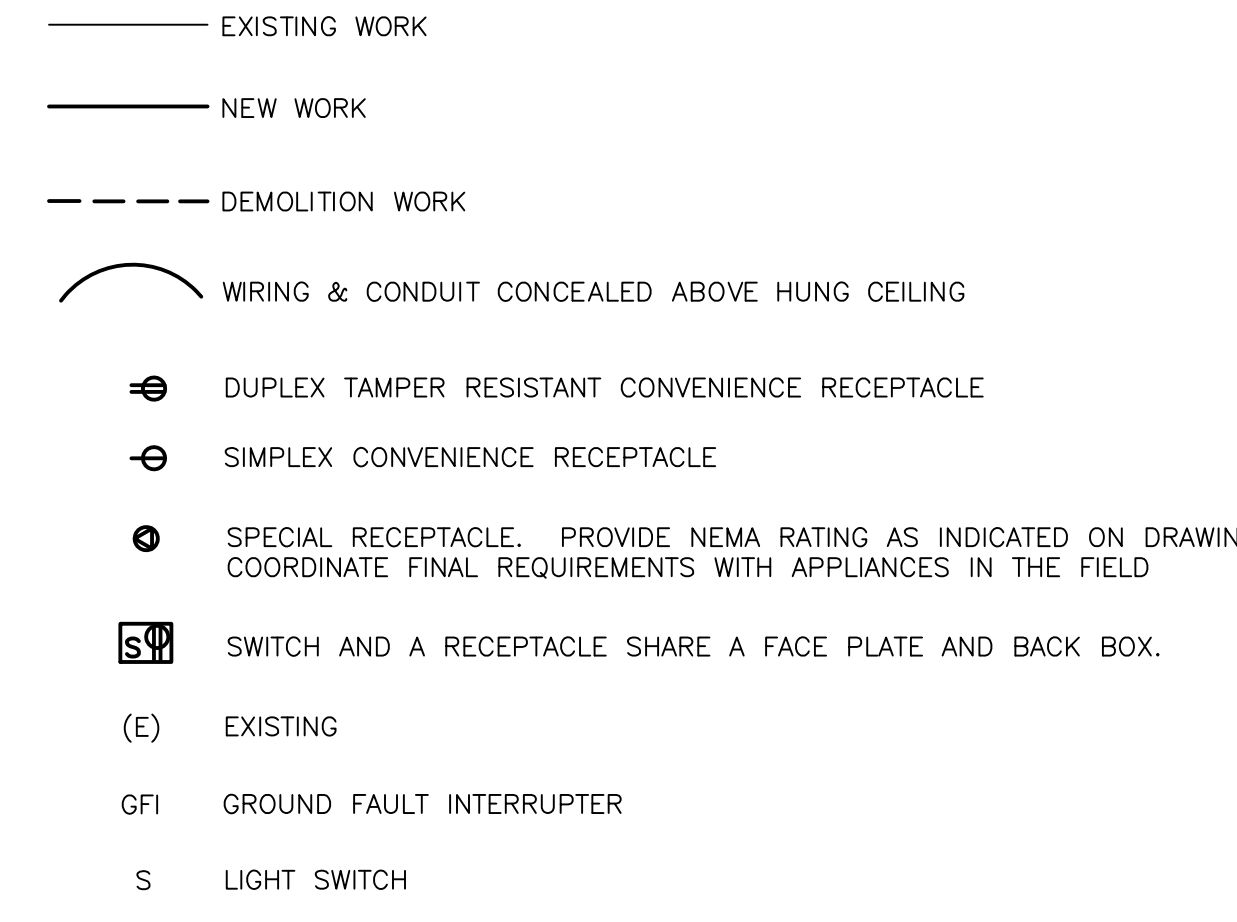
THIS DRAWING IS FORMATTED TO BE PRINTED AT 30"x42"

FOOD SERVICE EQUIPMENT ELECTRICAL CONNECTION SCHEDULE												
ITEM	EQUIPMENT DESCRIPTION	CONNECTION TYPE	ELECTRICAL CHARACTERISTICS								REMARKS	
			HP	KW	AMPS	VOLTS	PH	WIRE SIZE	CONDUIT	C/B		CKT NO
2A	HEATED CABINET, MOBILE	CORD AND PLUG		1.44	12	120	1	2#12-1#12GND	3/4"	20	A-11	PROVIDE NEMA 5-20R GFI RECEPTACLE.
2B	EXISTING HEATED CABINET, MOBILE	CORD AND PLUG						EXISTING			EXISTING	REPLACE RECEPTACLE AS DOCUMENTED ON FLOOR PLAN
3	OVEN, CONNECTION, ELECTRIC	HARDWIRED		10.4	30	208	3	3#8-1#10GND	3/4"	40	A-32,34-36	PROVIDE WALL MOUNTED DISCONNECT
7	HOT FOOD COUNTER, PORTABLE	CORD AND PLUG		3.75	18	208	1	2#10-1#10GND	3/4"	30	A-28,30	PROVIDE NEMA 6-30R RECEPTACLE. PROVIDE GFI CIRCUIT BREAKER.

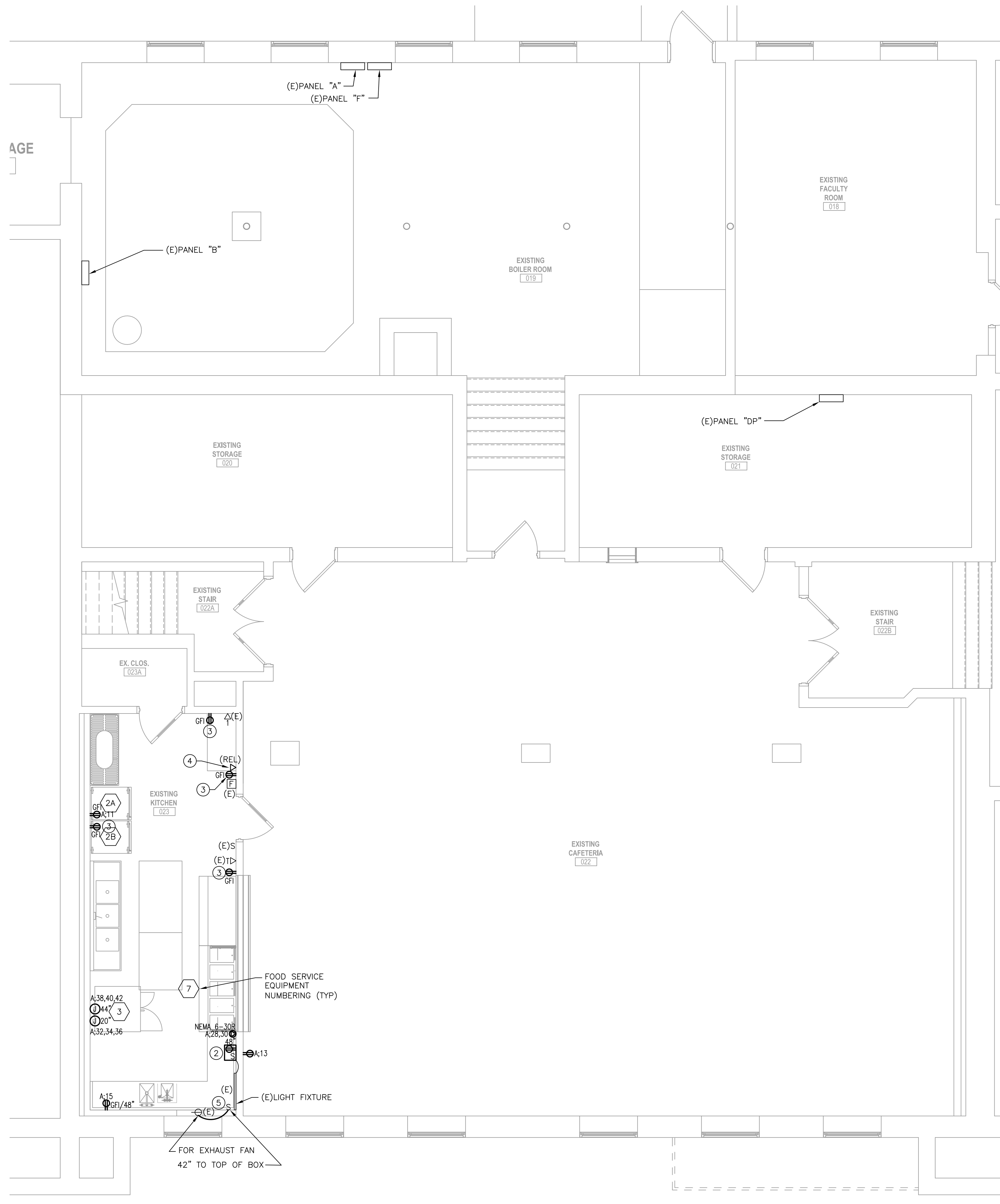
PANEL SCHEDULE FOR EXISTING PANEL "A" 120/208V, 3PH, 4W, 100A BUS, 100A MCO, 85,000 RMS EATON PRL2												
CIRCUIT NO	CIRCUIT POLE	AMP	REMARKS	PHASE A			PHASE B			AMP	CIRCUIT POLE	CIRCUIT NO
				A	B	C	A	B	C			
1	-	-	PREPARED SPACE	0	0	0						
3	-	-	PREPARED SPACE		0	0				20	3	4
5	-	-	PREPARED SPACE			0			0			6
7	-	-	PREPARED SPACE	0		0			0	20	1	8
9	-	-	PREPARED SPACE	0	0				0	20	1	10
11	1	20	HEATED CABINET, KITCHEN 023			1440			0	20	1	12
13	1	20	ICE CREAMER COOLER, CAFETERIA	1440					0	20	1	14
15	1	20	RECEPTACLE KITCHEN 023 COUNTER		180				0	-	1	16
17	1	20	SPARE			0			0	-	1	18
19	1	20	SPARE	0		0			0	-	1	20
21	1	20	EV/ATC PANEL		250				0	-	1	22
23	1	-	PREPARED SPACE			0			0	-	1	24
25	1	-	PREPARED SPACE	0	0				0	-	1	26
27	1	-	PREPARED SPACE			0		2160		-	1	28
29	1	-	PREPARED SPACE			0		2160		-	1	30
31	1	-	PREPARED SPACE	0				3600		-	1	32
33	1	-	PREPARED SPACE	0	0			3600		40	3	34
35	1	-	PREPARED SPACE			0		3600		-	1	36
37	1	-	PREPARED SPACE	0				3600		-	1	38
39	1	-	PREPARED SPACE	0	0			3600		40	3	40
41	1	-	PREPARED SPACE			0		3600		-	1	42

PHASE A: 8.64 kVA  
 PHASE B: 9.79 kVA  
 PHASE C: 10.80 kVA  
**TOTAL: 29.23 kVA**

- SPECIFICATIONS:**
- A. BASIC ELECTRICAL MATERIALS AND METHODS**
    - ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2020 NATIONAL ELECTRICAL CODE AS ADOPTED BY THE NJUCC, ANY APPLICABLE LOCAL CODES, IBC, NFPA AND ALL LOCAL AUTHORITIES HAVING JURISDICTION.
    - THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE BEFORE PROCEEDING WITH THE WORK.
    - FOLLOW DIMENSIONS WHERE INDICATED, DO NOT SCALE DRAWINGS.
    - ALL ELECTRICAL COMPONENTS SHALL BE UL LISTED.
  - B. CONDUCTORS AND CABLE**
    - ALL WIRING SHALL BE MINIMUM 2#12+1#12GND. ALL CONDUIT SHALL BE IN MINIMUM 3/4" EMT OR RIGID.
    - PROVIDE THW, THHN/THWN OR XHHW INSULATION AS APPROPRIATE FOR THE LOCATIONS WHERE INSTALLED.
    - MULTICONDUCTOR (MC) CABLE: COMPLY WITH NEMA WC 70 FOR ALUMINUM METAL-CLAD CABLE, TYPE MC WITH GROUND WIRE.
    - ALL CONDUCTORS SHALL BE COPPER.
  - C. RACEWAYS**
    - MC CABLE SHALL BE USED FOR CONCEALED WIRING. WIREMOLD SHALL BE USED FOR SURFACE MOUNT WIRING ON WALLS AND CEILING.
    - SURFACE RACEWAYS: PROVIDE AND INSTALL V500 OR V700 SERIES SURFACE METAL RACEWAY FOR FEEDING EQUIPMENT AND DEVICES EXPOSED TO VIEW. COLOR SELECTED BY ARCHITECT.
    - FIRE STOP ALL WALL PENETRATIONS.
  - D. CABINETS, BOXES AND FITTINGS**
    - JUNCTION BOXES SHALL BE INSTALLED IN CONFORMANCE WITH THE NEC AND SHALL MEET THE REQUIREMENTS OF THE NEC AND UL 50.
    - PROVIDE NEMA ENCLOSURES AS FOLLOWS. INDOOR DRY LOCATIONS - NEMA TYPE 1 SHEET STEEL, LOCATIONS EXPOSED TO WEATHER OR DAMPNESS - NEMA TYPE 3R AND WET LOCATIONS - NEMA TYPE 4.
    - MOUNTING HEIGHT OF INSTALLED EQUIPMENT SHALL BE AS FOLLOWS, EXCEPT AS OTHERWISE NOTED ON THE DRAWINGS:  
 SWITCH OUTLETS: 48" TO TOP OF BOX  
 RECEPTACLE OUTLETS: 18" FROM FLOOR TO CENTERLINE
  - E. ELECTRICAL IDENTIFICATION**
    - IDENTIFICATION LABELING FOR RACEWAYS, CABLES, CONNECTORS, AND JUNCTION BOXES.
    - SIGNS FOR OPERATIONAL INSTRUCTION, WARNING AND CAUTION, EQUIPMENT LABELS.
    - ALL RECEPTACLES AND SWITCHES SHALL BE LABELED ON A CLEAR SELF ADHESIVE LABEL WITH PANEL SOURCE AND CIRCUIT NUMBER IN 1/8" LETTERING.
    - ALL EQUIPMENT SHALL BE LABELED WITH PANEL SOURCE AND CIRCUIT NUMBER(S).
  - F. GROUNDING**
    - ALL EQUIPMENT, WIRING, CONDUIT, ETC SHALL BE BONDED TO THE BUILDING GROUNDING SYSTEM ELECTRODE AND SHALL CONFORM TO NEC ARTICLE 250.
  - G. WIRING DEVICES**
    - GENERAL: 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. PROVIDE IVORY COLOR DEVICES EXCEPT AS OTHERWISE INDICATED. VERIFY COLOR SELECTIONS WITH ARCHITECT.
    - RECEPTACLES: PROVIDE TAMPER-RESISTANT 20A RECEPTACLES EQUAL TO HUBBELL WIRING DEVICES BR20TR. VERIFY COLOR SELECTIONS WITH ARCHITECT.
    - GROUND-FAULT INTERRUPTER (GFI) RECEPTACLES: PROVIDE WEATHER-RESISTANT, TAMPER-RESISTANT, "FEED-THRU" TYPE GROUND-FAULT CIRCUIT INTERRUPTER, WITH INTEGRAL COMMERCIAL HEAVY-DUTY NEMA 5-20R DUPLEX RECEPTACLES ARRANGED TO PROTECT CONNECTED DOWNSTREAM RECEPTACLES ON SAME CIRCUIT. PROVIDE UL DESIGNED FOR INSTALLATION IN A 2-3/4 INCH DEEP OUTLET BOX WITHOUT ADAPTER. GROUNDING TYPE: CLASS A, GROUP 1, PER UL STANDARD 943. PROVIDE RECEPTACLES EQUAL TO HUBBELL WIRING DEVICES GFTWR20 SERIES, WHICH COMPLY WITH 2015 UL 943 FOR SELF-TESTING REQUIREMENTS. VERIFY COLOR SELECTIONS WITH ARCHITECT.
    - TOGGLE SWITCHES: QUITE TYPE AC SWITCHES RATED FOR 20A (COLOR AS SELECTED BY ARCHITECT).
    - WALL PLATES: SINGLE AND COMBINATION, OF TYPES, SIZES, AND WITH GANGING AND CUTOUPS AS INDICATED. PROVIDE PLATES WHICH MATE AND MATCH WITH WIRING DEVICES TO WHICH ATTACHED. PROVIDE METAL SCREENS FOR SECURING PLATES TO DEVICES WITH SCREW HEADS COLORED TO MATCH FINISH OF PLATES. PROVIDE WALL PLATE COLOR TO MATCH WIRING DEVICES EXCEPT AS OTHERWISE INDICATED. PROVIDE WALL PLATES WITH ENGRAVED LEGEND WHERE INDICATED. CONFORM TO REQUIREMENTS OF SECTION "ELECTRICAL IDENTIFICATION." PROVIDE PLATES POSSESSING THE FOLLOWING ADDITIONAL CONSTRUCTION FEATURES:
      - MATERIAL AND FINISH: 0.04 INCH THICK, TYPE 302 SATIN FINISHED STAINLESS STEEL.



**1 KITCHEN - DEMOLITION**  
SCALE: 1/4" = 1'-0"



**2 KITCHEN - NEW WORK**  
SCALE: 1/4" = 1'-0"

- KEYED NOTES:**
- MAINTAIN (E) CIRCUIT INTEGRITY MEANS BEFORE DEMOLITION, THE CONTRACTOR SHALL TRACE THE CIRCUIT WITH THE DEVICE THAT IS BEING SHOWN AS DEMOLISHED. IF IT IS DETERMINED THAT THE DEMOLISHED DEVICE IS ON A SHARED CIRCUIT WITH EXISTING-TO-REMAIN DEVICES/EQUIPMENT (NOT ALL DEVICES ARE SHOWN), AS NEEDED, MAINTAIN CIRCUIT INTEGRITY BY RE-WIRING OR MAINTAINING EXISTING WIRING TO KEEP EXISTING DEVICE(S) ACTIVE. IF DEMOLISHED DEVICE(S) ARE NOT ON A SHARED CIRCUIT ALL ASSOCIATED WIRING SHOULD BE REMOVED BACK TO SOURCE PANEL UNLESS OTHERWISE NOTED IN THE KEYED NOTES BELOW.
- DEMOLISH RECEPTACLE AND ASSOCIATED WIRING BACK TO SOURCE. MAINTAIN (E) CIRCUIT INTEGRITY.
  - DEMOLISH COMBINATION SWITCH/RECEPTACLE AND FACEPLATE. PROVIDE NEW GFI RECEPTACLE, SWITCH AND FACEPLATE IN EXISTING BACKBOX. CONNECT TO EXISTING WIRING.
  - DEMOLISH RECEPTACLE AND FACEPLATE. PROVIDE NEW GFI RECEPTACLE AND FACEPLATE IN EXISTING BACKBOX. CONNECT TO EXISTING WIRING.
  - DATA BISCUIT JACK TO BE RELOCATED. CURRENTLY JACK IS HANGING LOOSE ON THE GROUND. REMOUNT JACK TO A HEIGHT ABOVE THE DESK. MODIFY DATA CABLING AND WIREMOLD AS NEEDED.
  - PROVIDE NEW SWITCH ABOVE COUNTERTOP TO CONTROL (E)EXHAUST FAN RECEPTACLE. EXTEND WIRING AND CONDUIT AS REQUIRED.
  - DEMOLISH LIGHT SWITCH AND WIRING TO RECEPTACLE.

- NOTES:**
- ALL WORK SHOWN IN DETAIL 1 IS TO BE DEMOLISHED UNLESS OTHERWISE NOTED. ALL WORK SHOWN IN DETAIL 2 IS NEW UNLESS OTHERWISE NOTED.
  - ALL DEVICE LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS AND MOUNTING HEIGHTS SHALL BE FIELD LOCATED BY THE ENGINEER. THE CONTRACTOR SHALL INSTALL ALL DEVICES AT LOCATIONS AS DIRECTED BY THE ENGINEER WITHOUT ADDITIONAL COMPENSATION.
  - ALL BRANCH WIRING SHALL BE 2#12+1#12GND. MINIMUM CONDUIT SIZE SHALL BE 3/4".
  - FOLLOW DIMENSIONS, DO NOT SCALE DRAWINGS.
  - ALL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND OTHER APPLICABLE CODES AND STANDARDS.
  - ALL CONDUCTORS SHALL BE COPPER.
  - COMMON NEUTRALS ARE NOT ACCEPTABLE.
  - ELECTRICAL CONTRACTOR SHALL EXAMINE THE DRAWINGS OF ALL TRADES AND COORDINATE THEIR WORK TO AVOID INTERFERENCE WITH STRUCTURE, AND ALL EQUIPMENT ABOVE AND BELOW THE CEILING.
  - ALL SWITCHES, RECEPTACLES, PANELBOARDS, POWER SUPPLIES AND DISCONNECTS SHALL BE LABELED WITH SOURCE PANEL AND CIRCUIT.
  - THESE DRAWINGS SHOW EXISTING CONDITIONS AT THE TIME OF DESIGN. ACTUAL FIELD CONDITIONS MAY CHANGE PRIOR TO CONSTRUCTION. ALL DISCREPANCIES AFFECTING THE COMPLETION OF WORK SHALL BE REPORTED TO ENGINEER FOR RESOLUTION.
  - SHADED CIRCUITS INDICATE NEW CIRCUIT BREAKERS. PROVIDE NEW CIRCUIT BREAKERS IN THE SIZE AND QUANTITIES SHOWN IN THE PANEL SCHEDULES. NEW CIRCUIT BREAKERS SHALL MATCH TYPE AND RATING OF EXISTING PANEL.

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PROJECT:  
**KITCHEN UPGRADES AT  
MERCERVILLE  
ELEMENTARY SCHOOL**  
60 REGINA AVENUE, HAMILTON, NJ 08619

FOR  
**HAMILTON TOWNSHIP  
SCHOOL DISTRICT**  
90 PARK AVENUE, HAMILTON, NJ 08690

FOR CODE REVIEW:

REVISIONS:

REVISION NUMBER	REVISION NAME	DATE
1		

FOR BID: NOVEMBER 27, 2023

DRAWING TITLE:  
**ELECTRICAL  
FLOOR PLANS**

COMMISSION NUMBER:  
**22K113**

DO NOT SCALE THE DRAWINGS  
DRAWING NUMBER:  
**E1.1**