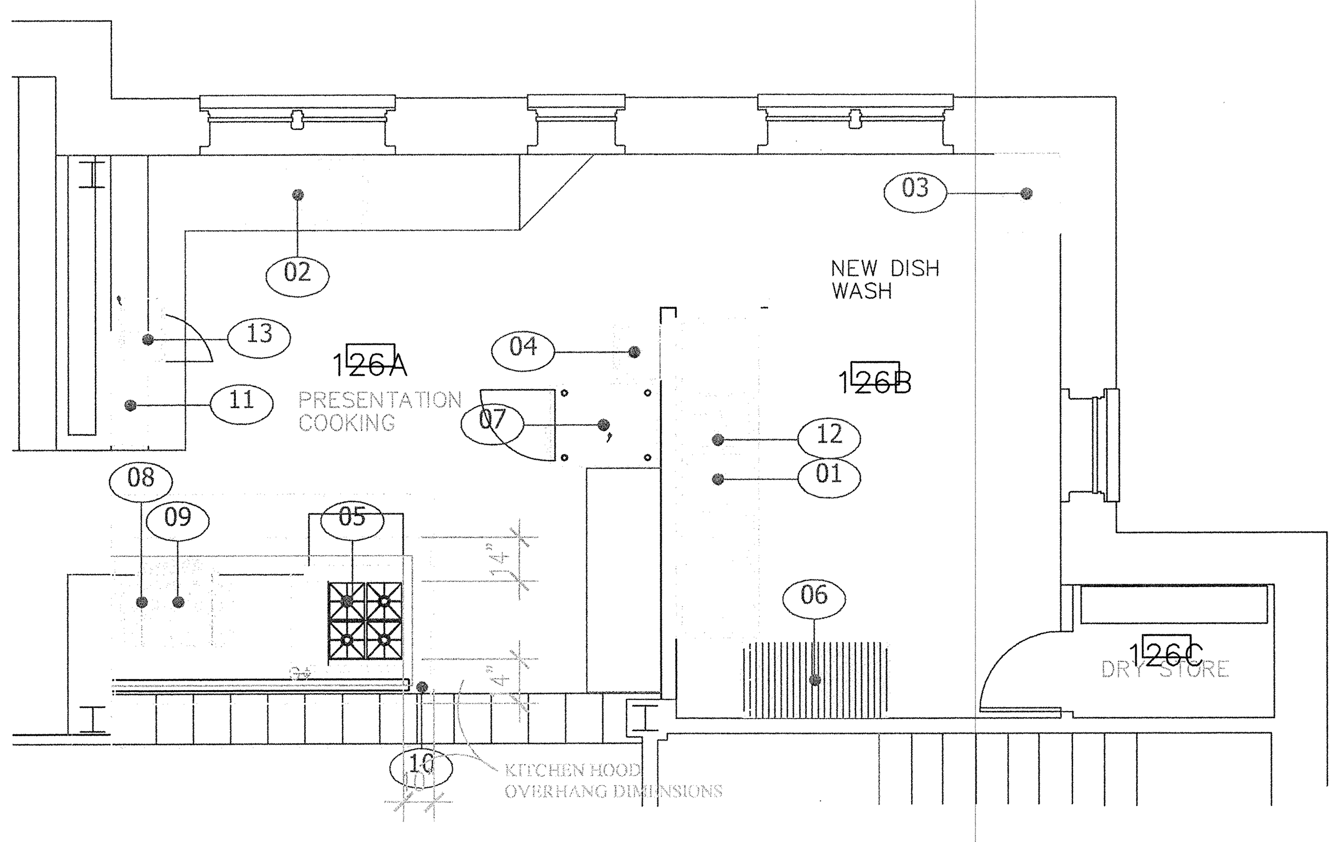
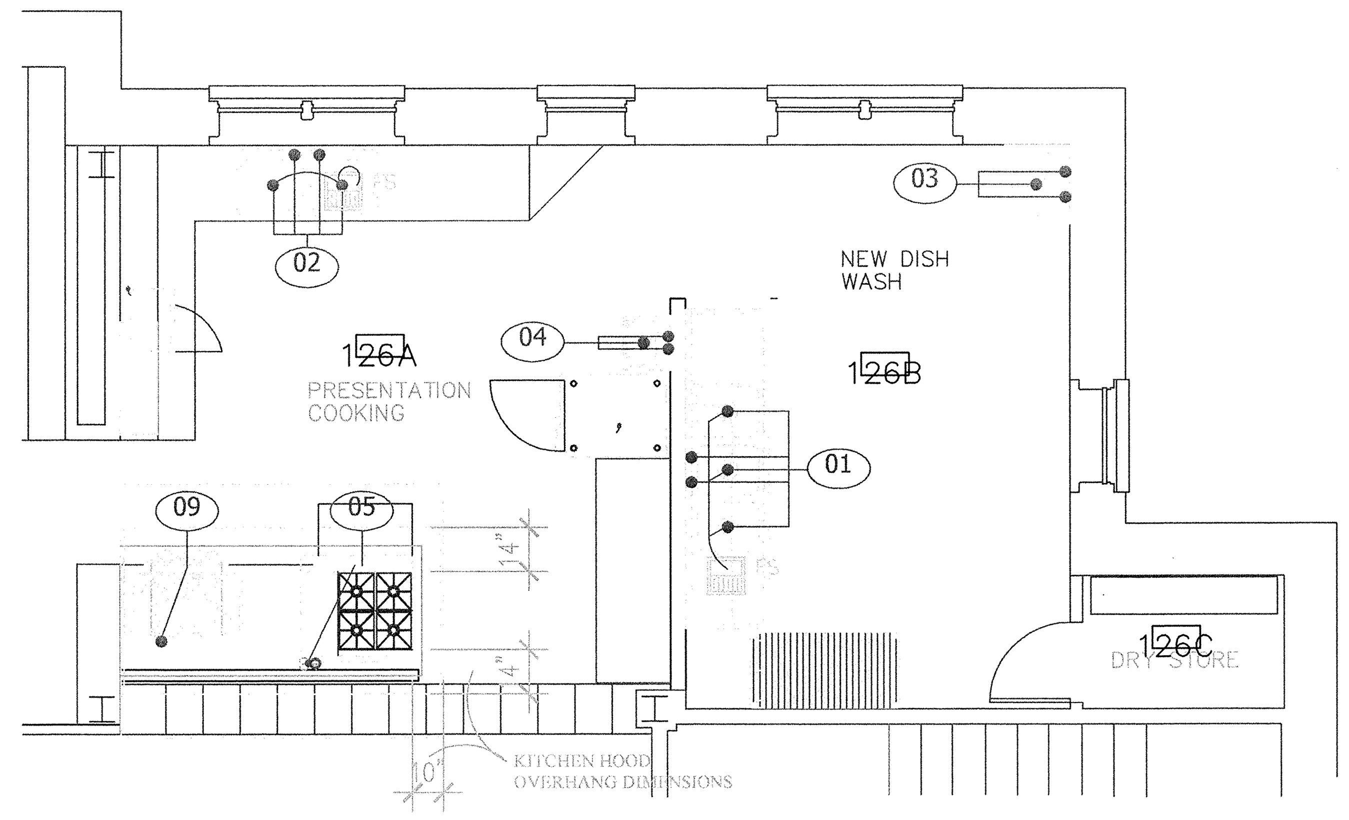
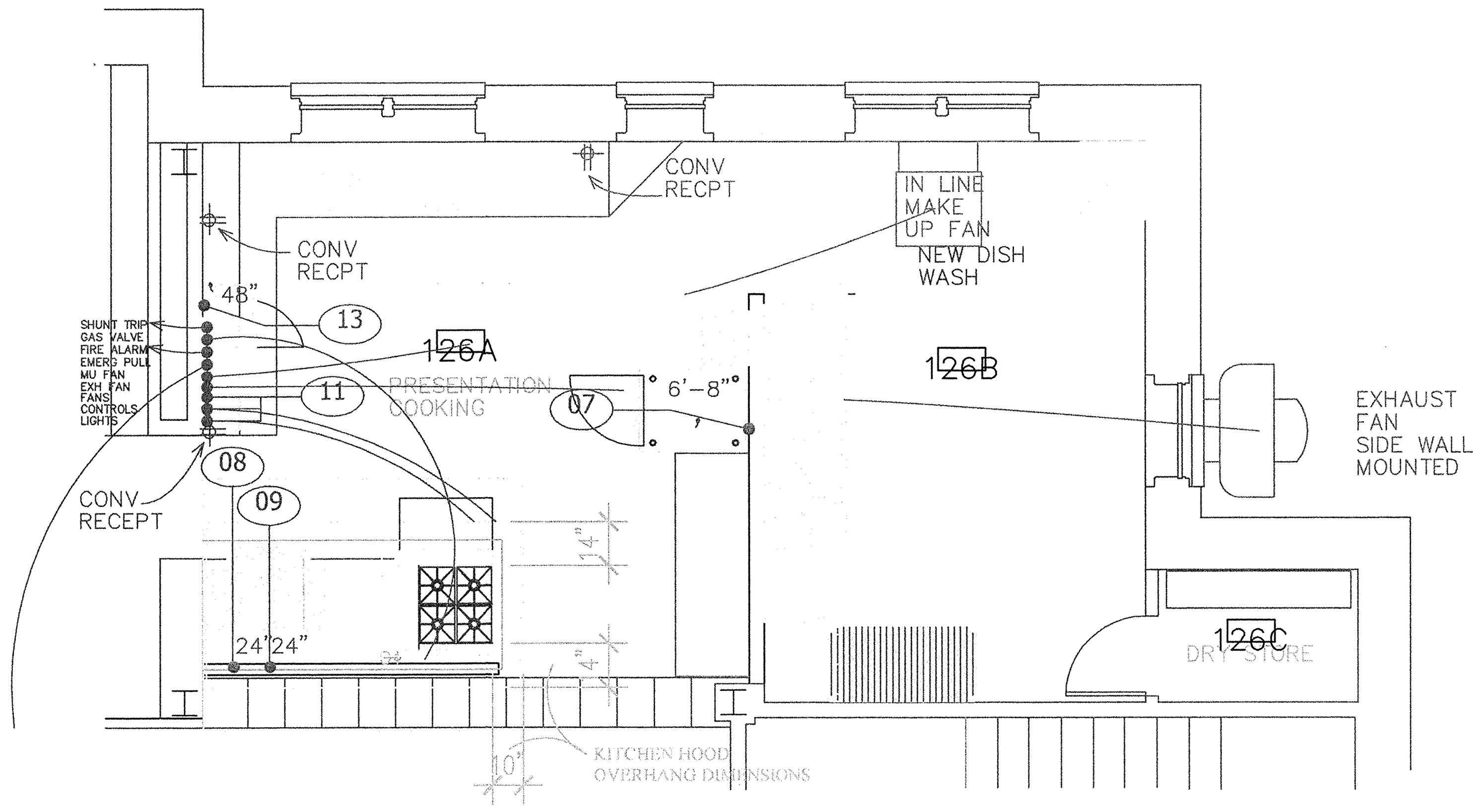


1 K1.0 FIRST FLOOR KITCHEN EQUIPMENT PLAN
SCALE: 1/4"=1'-0"



2 K1.0 FIRST FLOOR KITCHEN EQUIPMENT PLUMBING PLAN
SCALE: 1/4"=1'-0"



3 K1.0 FIRST FLOOR KITCHEN EQUIPMENT ELECTRICAL PLAN
SCALE: 1/4"=1'-0"

PLUMBING NOTES:

ALL NOTES THAT ARE APPLICABLE TO THIS PROJECT ARE THE RESPONSIBILITY OF THE PARTICIPATING ENGINEERS AND CONTRACTORS.

1. ALL FINAL CONNECTIONS SHOWN ON THIS DRAWING ARE ACTUAL REQUIREMENTS OF THE EQUIPMENT AND ARE SHOWN IN THEIR APPROXIMATE LOCATION

2. PLUMBING VENT SIZES AND LOCATIONS ARE TO BE DETERMINED BY THE PLUMBING CONTRACTOR

3. FLOOR DRAINS SHOWN ARE FOR EQUIPMENT USE AND GENERAL CLEANING PURPOSES, AND ARE TO BE OF THE TYPE INDICATED IN SYMBOLS UNLESS OTHERWISE REQUIRED BY LOCAL CODES

4. STOP VALVES SHALL BE PROVIDED IN ALL PIPING TO KITCHEN AND OTHER EQUIPMENT OR FIXTURE AHEAD OF OPERATING LEVER HANDLES OR FAUCETS.

5. FABRICATED EQUIPMENT SHALL BE PRE-PIPED BY FABRICATOR TO POINTS AS INDICATED FOR FIELD CONNECTION BY THE PLUMBING CONTRACTOR

6. WHERE INDIRECT WASTE ARE NOTED, THE PLUMBING ENGINEER IS TO INDICATE SUCH FOR NEAREST EXTENSION TO FLOOR SINK INDIRECT WASTE LINES TO BE RUN IN ACCORDANCE WITH ALL LOCAL CODES

7. ALL GAS ROUGH-INS SHOWN ARE EQUIPMENT CONNECTION POINTS ONLY. THE PLUMBING ENGINEER SHALL DETERMINE MAIN GAS LINE DROPS, SIZES AND ROUTING TO CONNECTION POINTS

8. ALL GAS FIRED EQUIPMENT MUST BE EQUIPPED WITH INDIVIDUAL MANUAL SHUT-OFF VALVES BY PLUMBING CONTRACTOR

9. ALL KITCHEN WASTE WATER TO BE SPILLED TO GREASE TRAP GREASE TRAPS TO BE SPECIFIED BY THE PLUMBING ENGINEER AND INSTALLED BY THE PLUMBING CONTRACTOR

10. PLUMBING CONTRACTOR TO INTERCONNECT KITCHEN EQUIPMENT WITH WATER FILTERS

11. THE INTENT OF THE SPECIFICATIONS AND DRAWINGS REGARDING MECHANICAL, ELECTRICAL, PLUMBING, AND FACTORY PREWIRING AND PREPIPING IS TO HAVE THE FABRICATOR EXTEND TO AND TERMINATE ALL CONNECTIONS FOR ALL EQUIPMENT IN THE LOCATIONS SHOWN IN THE SCHEDULE OF EQUIPMENT AND FLOOR PLAN

12. ALL WORK IS TO BE COMPLETED IN EVERY RESPECT SO THAT THE ITEMS CONCERNED WILL BE FULLY OPERABLE AS SOON AS THE FINAL CONNECTIONS ARE MADE AT THE JOBSITE BY THE APPROPRIATE CONTRACTOR.

13. FS DENOTES FLOOR SINK 12" x 12" NOMINAL PLAN DIMENSIONS WITH 1/2 GRATE TYPICAL. FLOOR SINKS ARE SPECIFIED BY THE PLUMBING ENGINEER AND PURCHASED AND INSTALLED BY THE PLUMBING CONTRACTOR

14. FD DENOTES FLOOR DRAIN. FLOOR DRAINS ARE SPECIFIED BY THE PLUMBING ENGINEER AND PURCHASED AND INSTALLED BY THE PLUMBING CONTRACTOR

15. ALL PLUMBING MUST BE INSTALLED TO BE IN COMPLIANCE WITH THE INTERNATIONAL PLUMBING CODE - 2006 EDITION

16. BACK-SIPHONAGE PROTECTION SHALL BE SPECIFIED BY PLUMBING ENGINEER AND INSTALLED BY PLUMBING CONTRACTOR AT THE FOLLOWING LOCATIONS:
- EQUIPMENT WITH SUBMERGED WATER INLETS SUCH AS DISPOSALS, WAREWASHERS, SCRAPPING TROUGHS ETC.
- AT ALL HOSE CONNECTIONS
- AT ALL POTENTIAL CROSS CONNECTIONS
- AT ALL CHEMICAL DISPENSING SYSTEMS

USE EXPOSED IN-LINE CONTINUOUS PRESSURE DOUBLE CHECK BACKFLOW PREVENTERS ON WATER SUPPLY LINES TO HOSE REELS, POWER CLEAN-UP EQUIPMENT AND HOSE CONNECTIONS WHERE HOSE NOZZLES OR OTHER CUT-OFF VALVES ARE LOCATED DOWNSTREAM OF THE DEVICE.

17. MANUAL SANITIZATION OF UTENSILS AND EQUIPMENT WILL USE APPROVED CHEMICALS IN LIEU OF 170 DEGREE HOT WATER

18. WATER FOR FOOD SERVICE OPERATIONS IS HEATED BY WATER HEATERS. THESE WILL BE USED EXCLUSIVELY BY FOOD SERVICE DEVICES. HOT WATER DISTRIBUTION WILL BE THROUGH A RECIRCULATING LOOP SO THAT 140 DEG F WATER IS NEARLY INSTANTLY AVAILABLE AT ALL HOT WATER OUTLETS.

19. HAND SINKS WILL BE PROVIDED WITH LEVER HANDLED MIXING VALVES. THESE ARE NOT SELF-CLOSING, SLOW CLOSING OR METERED DEVICES. HOT WATER AT THESE SINKS MAY BE TEMPERED TO AVOID BURNING BUT MUST BE A MINIMUM OF 110 DEG F

20. SLOPE FLOORS TO DRAINS AS INDICATED SEE ALSO ARCH & STRUCT DRAWINGS

21. SINKS IDENTIFIED AS HAND SINKS MUST HAVE 12" HIGH STAINLESS STEEL ATTACHED TO OR ADJACENT TO SINK.

22. HOT WATER DEMAND IS BASED ON THE FOLLOWING:

COUNT	ITEM	DESCRIPTION	GAL / ITEM	TOTAL GALLONS
(1)	01	3 COMP UTENSIL SINK (FULL SERVICE)	90	90
(1)	02	2 COMP VEGETABLE SINK	20	20
(1)	03	MOP SINK	20	20
(1)	04	HAND SINK	05	05
				135 TOTAL GALLONS REQD

HEATER CAPACITY EQUALS STORAGE CAPACITY PLUS ONE HOUR RECOVERY RATE (100 DEG RISE)

ELECTRICAL NOTES:

ALL NOTES THAT ARE APPLICABLE TO THIS PROJECT ARE THE RESPONSIBILITY OF THE ENGINEERS AND CONTRACTORS

1. ALL FINAL CONNECTIONS SHOWN ON THIS DRAWING ARE THE ACTUAL REQUIREMENTS OF THE EQUIPMENT AND ARE SHOWN IN THEIR APPROXIMATE LOCATION

2. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL SWITCHES, STARTERS, DISCONNECTS, ETC FOR ALL EQUIPMENT UNLESS NOTED OTHERWISE, ALL DISCONNECTS OR LOCK-OUT DEVICES STARTERS, ETC TO MEET NEC AND OSHA STANDARDS

3. ALL RECEPTACLES SHALL BE GROUNDED PER NEC AND OSHA AND TO HAVE GROUND FAULT CIRCUIT INTERRUPTOR.

4. ELECTRICAL REQUIREMENTS FOR FIRE PROTECTION: GAS SOLENOID AND/OR SHUNT TRIP BREAKERS AND/OR FLOW CONTROL ALARM SWITCHS (FOR WET WATER SYSTEMS) TO BE WIRED THRU LIFE SAFETY SYSTEM BY ELECTRICAL CONTRACTOR

5. WHERE CONNECTION IS SHOWN AS DC (DIRECT CONNECTION) ELECTRICAL CONTRACTOR SHALL CONNECT TO JUNCTION BOX FURNISHED WITH EQUIPMENT

6. EC TO PROVIDE WIRING FROM FAN TO REMOTE SWITCH AND/OR SWITCH ON EXHAUST HOOD

7. CONDUITS ARE SHOWN FOR ROUTING SODA LINES THROUGH NEW CONSTRUCTION. INSTALL WITH LONG SWEEP BENDS AND INSTALL TO COMPLY WITH ALL LOCAL GOVERNING CODES AS TO TYPE AND INSTALLATION REQUIREMENTS.

8. ALL CONDUIT FOR REGISTER SYSTEM, BEVERAGE SYSTEMS AND HOOD PULL STATIONS TO BE SPECIFIED BY THE ELECTRICAL ENGINEER AND PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR

9. IF BEVERAGE LINES ARE RUN ABOVE CEILING WITHOUT CONDUIT, IT WILL BE THE RESPONSIBILITY OF THE SYSTEM MANUFACTURER TO PROVIDE CEILING SUPPORTS AND INSTALLATION OF SUPPORTS TO SECURE LINES

10. THE INTENT OF THE SPECIFICATIONS AND DRAWINGS REGARDING MECNANICAL, ELECTRICAL, PLUMBING AND FACTORY PREWIRING AND PREPIPING IS TO HAVE THE FABRICATOR EXTEND TO AND TERMINATE ALL CONNECTIONS FOR ALL EQUIPMENT IN THE LOCATIONS SHOWN IN THE ROUGH-IN PLANS

11. ALL WORK IS TO BE COMPLETED IN EVERY RESPECT SO THAT THE ITEMS CONCERNED WILL BE FULLY OPERABLE AS SOON AS THE FINAL CONNECTIONS ARE MADE AT THE JOBSITE BY THE APPROPRITE CONTRACTOR.

12. LIGHTING LEVELS MUST ACHIEVE THE FOLLOWING MINIMUM LEVELS:

WORKING SURFACES:	
IN FOOD PREPARATION AREAS	20 fc
BELOW HOODS	20 fc
IN MEAT CUTTING ROOMS	20fc
IN EQUIPMENT WASHING AREAS	20fc
IN UTENSIL WASHING AREAS	20 fc
AT HANDWASHING LAVATORIES	20 fc
IN TOILET ROOMS	20 fc
WALK-IN COOLERS *	10 fc @ 30" AFF
WALK-IN FREEZERS *	10 fc @ 30" AFF
DRY STORAGE AREAS	10 fc @ 30" AFF
IN ALL OTHER AREAS, INCLUDING DINING ROOMS DURING CLEANING OPERATIONS	10 fc @ 30" AFF

* NO MEAT PROCESSING OR FOOD PROCESSING ACTIVITIES ARE CONDUCTED WITHIN WALK-IN COOLERS / FREEZERS

13. LIGHT BULBS IN FOOD PREPARTAION AREAS, EQUIPMENT AND UTENSIL WASHING AREAS AND FOOD AND EQUIPMENT STORAGE AREAS (INCLUDING WALK-IN COOLERS / FREEZERS) SHALL BE SHEILDED OR SHATTER RESISTANT

14. ABOVE COUNTER CONVENIENCE OUTLETS NOT SPECIFICALLY ASSOCIATED WITH A PIECE OF KITCHEN EQUIPMENT ARE SHOWN ON ELECTRICAL DRAWINGS FOR INSTALLATION BY ELECTRICAL CONTRACTOR

15. DENOTES ELECTRICAL DISCONNECTS DESIGNED BY ELECTRICAL ENGINEER AND INSTALLED BY ELECTRICAL CONTRACTOR

ADDITIONAL MANUFACTURERS FOR EQUIPMENT SCHEDULE BELOW

Item #1 – Eagle Group/Metal Masters, Duke Manufacturing or equal
Item #2 – Eagle Group/Metal Masters, Duke Manufacturing or equal
Item #3 – Eagle Group/Metal Masters, Duke Manufacturing or equal
Item #4 – Eagle Group/Metal Masters, Duke Manufacturing or equal
Item #5 – Garland, Hobart US Foodservice or equal
Item #6 – Eagle Group/Metal Masters, ISS Shelving or equal
Item #7 – Electrolux Professional North America, Traulsen or equal
Item #8 – Kenmore Elite, Bosch Home Appliance or equal
Item #9 – Kenmore Elite, Bosch Home Appliance or equal
Item #10 & 11 – Greenheck, Select Air Systems or equal
Item #12 – Eagle Group/Metal Masters, ISS Shelving or equal
Item #13 – Hobart US Foodservice, ACP, Inc. or equal

EQUIPMENT SCHEDULE ⓧ

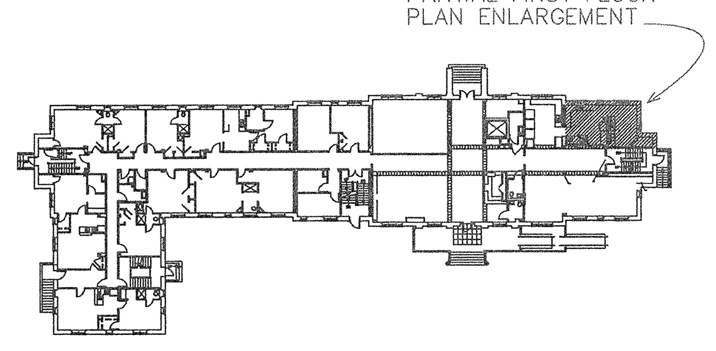
ALL COMMERCIAL KITCHEN EQUIPMENT LISTED BELOW ITEMS 1-13 IS TO BE OWNER FURNISHED AND CONTRACTOR INSTALLED.

MARK	QTY	DESCRIPTION	MANUFACTURER SEE ABOVE ADDITIONAL MANUF.	MODEL NO	WATER			GAS	ELECTRICAL				REMARKS
					C	H	DR		V	PH	A	HP	
01	1	THREE COMPARTMENT SINK	ADVANCE TABCO OR EQUAL	94-3-54-24RL x K-112	2 (1/2")	1/2"	1 1/2" INDIRECT DRAIN AFTER MANIFOLDING						PROVIDE CUT OFF VALVE @ 2nd CW FOR CHEMICAL CONNECTION
02	1	DROP IN SINK	ADVANCE TABCO OR EQUAL	DI-2-2012	1/2"	1/2"	1 1/2" INDIRECT DRAIN AFTER MANIFOLDING						
03	1	MOP SINK	ADVANCE TABCO OR EQUAL	9-OP-40 x K-240 x K-298 K-242 x K-245 x K-244	1/2"	1/2"	2" IPS						
04	1	HAND SINK, WALL MOUNT	ADVANCE TABCO OR EQUAL	7-PS-87	1/2"	1/2"	1 1/2" IPS						
05	1	GAS RANGE	VULCAN-HART OR EQUAL	G36S-4FT12			3/4"	183K BTU					NOTE 4
06	1	SHELVING UNIT	INTERMETRO INDUSTRIES OR EQ.	(4) 2448NK3 x (4) 74PK3 x (4) CASTERS -TWO LOCKING									
07	1	REFTIGERATOR, REACH IN	VICTORY OR EQUAL	RSA-1D-S7					120	1	6		
08	1	INDUCTION COOKTOP	GE OR EQUAL	PHP960SMSS - STAINLESS STEEL					208	1	42		NOTE 3
09	1	GAS WALL OVEN	GE OR EQUAL	JGRP20SENSS - STAINLESS STEEL			3/4"		120	1	5		NOTE 3 AND NOTE 4
10	1	EXHAUST HOOD	CAPTIVEAIRE OR EQUAL	NDI SERIES WITH PSP MAKE UP AIR			NOTE 1		120	1	15		Lights
							NOTE 2		208	3	8	1 + 1.5	INPUT FOR FANS CONNECT TO EXH FAN CONNECT TO MAKE UP FAN
11	1	HOOD FIRE SUPPRESSION SYSTEM	CAPTIVEAIRE OR EQUAL	ANSUL					120	1	15		CONTROLS "UL 300 LIQUID FIRE SUPPRESSION SYSTEM' IS THE EXTINGUISHING MATERIAL
													CONNECT TO FIRE ALARM CONNECT TO SHUNT TRIP BREAKERS CONNECT TO GAS SOLENOID CONNECT TO EMERGENCY PULL
12	1	WALL SHELF	ADVANCE TABCO OR EQUAL	WS-15-72									
13	1	MICROWAVE OVEN	PANASONIC OR EQUAL	NE-1054					120	1	14		

NOTE No 1: HOODS, DUCT SIZES AND FANS WERE SIZED PRIOR TO FINAL DUCT LAYOUT - HOOD SUPPLIER TO RE-EVALUATE SYSTEM WITH FINAL DUCT LAYOUT AND INCREASE COMPONANT SIZES AND UTILITIES AS NECESSARY TO ACHEIVE AN OPERATING SYSTEM

NOTE NO 2: GC CO-ORDINATE UTILITY CONNECTIONS, PLACEMENT, SIZE. AND CHARACTERISTICS WITH FINAL SHOP DRAWINGS AND ADJUST BUILDING UTILITIES AS NECESSARY

NOTE NO 3: CONNECT ELECTRICITY THROUGH SHUNT TRIP BREAKER
NOTE NO 4: CONNECT GAS THROUGH GAS VALVE CONTROLLED BY ITEM 11



FIRST FLOOR KEY PLAN

Partner In Charge: JCB
Project Architect: JCB
Drawn By: TMF
Date Drawn: 12/06/11

Revisions
No. ____ Date ____
No. ____ Date ____
No. ____ Date ____
No. ____ Date ____
No. ____ Date ____
No. ____ Date ____
No. ____ Date ____
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STATE OF SOUTH CAROLINA REGISTERED ARCHITECTS
JHS ARCHITECTURE INTEGRATED DESIGN, INC. Columbia, SC No. 02075

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STATE OF SOUTH CAROLINA REGISTERED ARCHITECT
J. CLINTON ... COLUMBIA, SC 5288
2/2/12

Project: THE UNIVERSITY OF SOUTH CAROLINA MAXCY COLLEGE RENOVATIONS COLUMBIA, SOUTH CAROLINA

Sheet Title: FIRST FLOOR UPFIT PLAN

jhs Architecture: Integrated Design

Project Number: 961

Sheet: K1.0

HOOD INFORMATION

HOOD NO.	MODEL	LENGTH	MAX. COOKING TEMP.	EXHAUST PLENUM						SUPPLY PLENUM						HOOD CONSTRUCTION	HOOD CONFIG.	
				TOTAL EXH. CFM	RISER(S)					TOTAL SUP. CFM	RISER(S)						END TO END	ROW
					WIDTH	LENG.	DIA.	CFM	S.P.		WIDTH	LENG.	DIA.	CFM	S.P.			
1	5424 NDI-PSP-FB	8' 6.00"	400 Deg.	3145	14"	21"		3145	-1.022"	2516						430 SS Where Exposed	ALONE	ALONE

HOOD INFORMATION

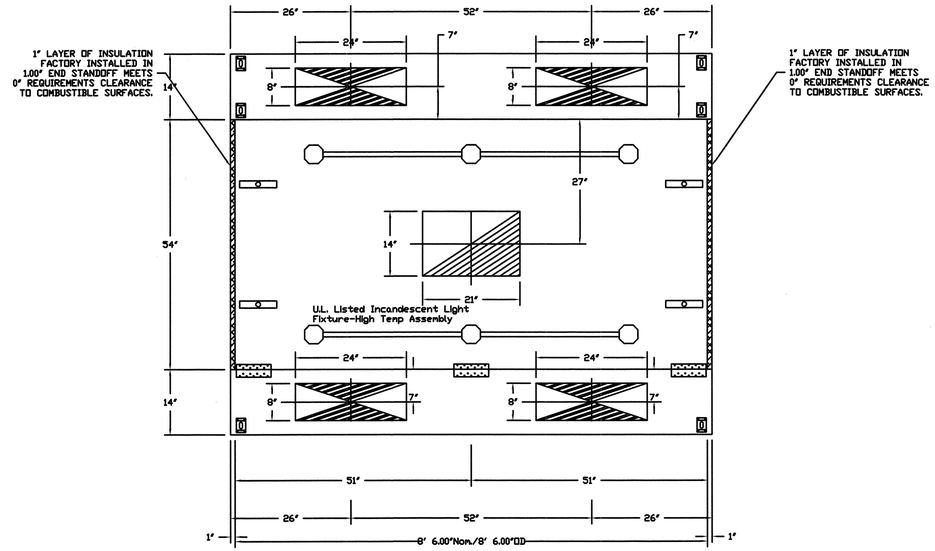
HOOD NO.	FILTER(S)				LIGHT(S)			UTILITY CABINET(S)						FIRE SYSTEM PIPING	HOOD HANGING WGHT
									FIRE SYSTEM		ELECTRICAL	SWITCHES			
	TYPE	QTY.	HEIGHT	LENGTH	QTY.	TYPE	WIRE GUARD	LOCATION	TYPE	SIZE	MODEL #	QUANTITY	LOCATION		
1	Captrate Solo Filter wl	10	16"	20"	6	Incandescent Light Fixt	NO							YES	636 LBS

HOOD OPTIONS

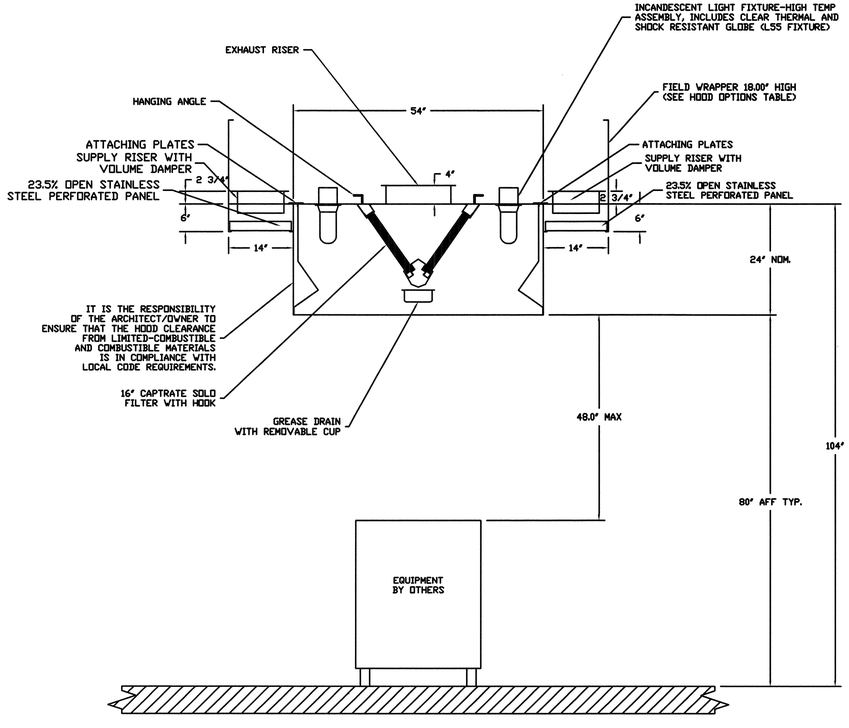
HOOD NO.	OPTION
1	FIELD WRAPPER 18.00" High Front, Left, Right, Back
	LEFT END STANDOFF(FIN/INS- ISLAND) 1" Wide Insulated
	RIGHT END STANDOFF(FIN/INS- ISLAND) 1" Wide Insulated

PERFORATED SUPPLY PLENUM(S)

HOOD NO.	POS.	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)				
						WIDTH	LENG.	DIA.	CFM	S.P.
1	Back	104"	14"	6"	MUA	8"	24"		629	0.265"
					MUA	8"	24"		629	0.265"
	Front	104"	14"	6"	MUA	8"	24"		629	0.265"
					MUA	8"	24"		629	0.265"



PLAN VIEW - Hood #1
8' 6.00" LONG 5424NDI-PSP-FB



SECTION VIEW - MODEL 5424NDI-PSP-FB

THE INFORMATION SHOWN ON SHEETS K3.0 - K3.2 PERTAINS TO KITCHEN EXHAUST HOODS AND ASSOCIATED SYSTEMS PROVIDED BY CAPTIVEAIRE SYSTEMS. THIS CONTRACT INCLUDES THE PURCHASE AND INSTALLATION OF ALL ITEMS SHOWN ON THESE SHEETS CAPTIVEAIRE IS THE BASIS OF DESIGN. ANY REQUEST FOR SUBSTITUTION MUST BE IN WRITING DURING THE BID PROCESS IN ACCORDANCE WITH DIVISION 1 OF THE SPECIFICATIONS. HOOD SYSTEMS MUST BE INSTALLED AND TESTED IN STRICT COMPLIANCE WITH NFPA 96

Partner In Charge
JCB
Project Architect
JCB
Drawn By
TMF
Date Drawn
12/06/11

Revisions
No. ____ Date ____
No. ____ Date ____
No. ____ Date ____
No. ____ Date ____
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STATE OF SOUTH CAROLINA
CLAYTON J. SCHMIDT
REGISTERED ARCHITECT
12/12

Project
MAXCY COLLEGE RENOVATION
PROJECT # H27-6073-AC

Sheet Title
FIRST FLOOR UPFIT PLAN

Architecture Integrated Design
1812 LINCOLN STREET
THIRD FLOOR
COLUMBIA, SC 29201-2310
PHONE: 1.803.252.2400
FAX: 1.803.252.1630

Project Number
961

Sheet
K3.0

EXHAUST FAN INFORMATION

FAN UNIT NO.	FAN UNIT MODEL #	MODEL	TAG	CFM	ESP.	RPM	H.P.	ø	VOLT	FLA	WEIGHT (LBS.)
1	NCA24HPFA	NCA24HPFA		3145	1.650	954	1.500	3	208	4.7	213.42

HEATER/MUA FAN INFORMATION

FAN UNIT NO.	FAN UNIT MODEL #	BLOWER	HOUSING	TAG	CFM	ESP.	RPM	H.P.	ø	VOLT	FLA	WEIGHT (LBS.)
2	INLINE2-G12	G12	INLINE.2		2516	0.650	763	1.000	3	208	3.3	275.11

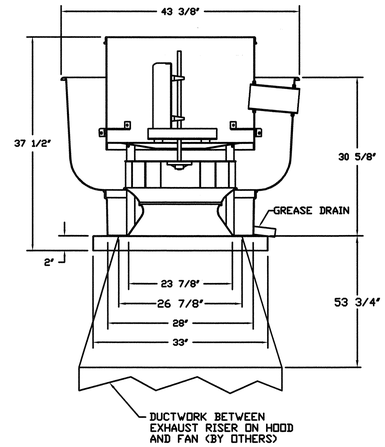
FAN OPTIONS

FAN UNIT NO.	OPTION (Qty. - Descr.)
1	1 - Grease Box
	1 - Wallmount 32.5 sq. x 2"
2	1 - Vibration Isolation Ceiling Hangars for INLINE fans (set of

FAN ACCESSORIES

FAN UNIT NO.	FAN UNIT TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1		YES		YES				
2					YES			

FAN #1 NCA24HPFA - EXHAUST FAN



FEATURES:

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

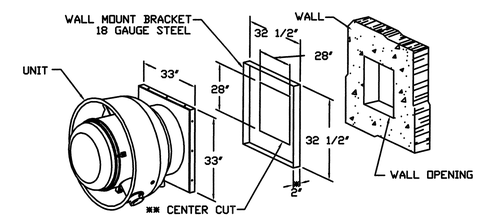
NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

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

OPTIONS

GREASE BOX
WALLMOUNT 32.5 SQ. X 2"

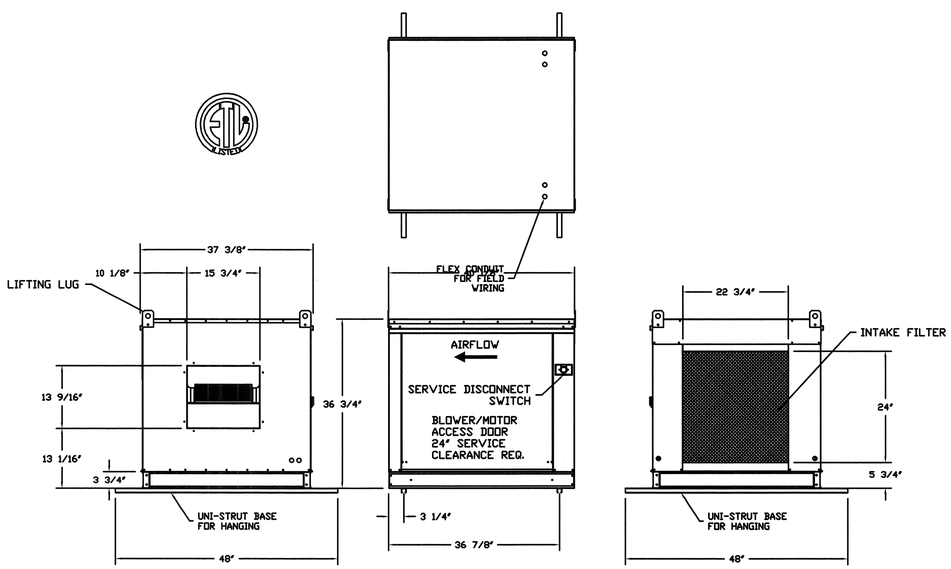
WALL MOUNT BRACKET

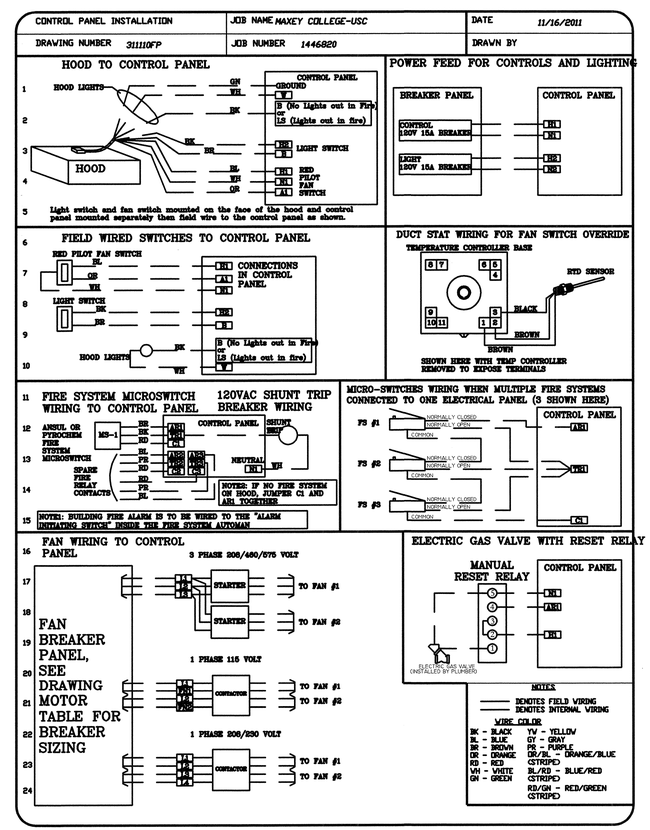


- WALL BRACKET FITS INTO BASE OF FAN
- SELF DRILLING SCREWS SHOULD BE USED FOR UNIT ATTACHMENT TO WALL MOUNT BRACKET

* DIMENSION = 5" WHEN USED WITH DAMPER
** CENTERED IN WALL MOUNT

FAN #2 INLINE2-G12 - SUPPLY FAN
1. INLINE SUPPLY UNIT W/ 12" BLOWER IN SIZE #2 HOUSING. INSULATED HOUSING.
2. SIDE DISCHARGE - AIR FLOW RIGHT -> LEFT
3. VIBRATION ISOLATION CEILING HANGERS FOR INDOOR UN-TEMPERED FANS (SET OF 4).





Partner In Charge: JCB
Project Architect: JCB
Drawn By: TMF
Date Drawn: 12/06/11

Revisions
No. ____ Date ____
Issue Date ____

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STATE OF SOUTH CAROLINA — CL INTOSH — 11/16/12 — REGISTERED ARCHITECT

Project: MAXCY COLLEGE RENOVATION PROJECT # H27-6073-AC

Sheet Title: FIRST FLOOR UPFIT PLAN

JHS Architecture : Integrated Design
1812 LINCOLN STREET
THIRD FLOOR
COLUMBIA, SC 29201-2310
PHONE: 1.803.252.2400
FAX: 1.803.252.1630

Project Number: 961

Sheet: K3.1

Exhaust Fan Wiring

DRAWING NUMBER *EXH1446820-1*	JOB NAME *MAXEY COLLEGE-USC*	DATE *11/16/2011*
	JOB NUMBER *1446820*	MODEL NCA94EPPA

Installed Options

Component Identification

Label	Description	Location
MT-01	Fan Motor	[2]
SV-01	Main disconnect switch	[2]

MOTOR INFO

EXHAUST 1.5HP-208V-3P-4.7FLA

ELECTRICAL INFORMATION

MOTOR/CONTROL CIRCUIT MCB: 20A
MOTOR/CONTROL MCB: 15A

NOTES

DENOTES FIELD WIRING
DENOTES INTERNAL WIRING

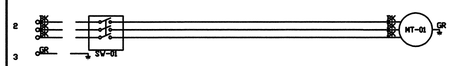
WIRE COLOR

BK - BLACK	YW - YELLOW
BL - BLUE	GR - GREEN
BR - BROWN	GY - GRAY
OR - ORANGE	PR - PURPLE
RD - RED	PK - PINK
WH - WHITE	

AirHandler Wiring

DRAWING NUMBER *A1446820-2*	JOB NAME *MAXEY COLLEGE-USC*	DATE *11/16/2011*
	JOB NUMBER *1446820*	MODEL DNJ060-G12

ATTENTION ELECTRICIAN!
DROP FOR DISCONNECT CONNECTION IS FACTORY SUPPLIED
CONNECT POWER TO THE DROP



Installed Options

Component Identification

Label	Description	Location
MT-01	Supply motor	[2]
SV-01	Main disconnect switch	[2]

MOTOR INFO

SUPPLY 1HP-208V-3P-3.3FLA

ELECTRICAL INFORMATION

MOTOR/CONTROL CIRCUIT MCB: 20A
MOTOR/CONTROL CIRCUIT MCB: 15A

NOTES

DENOTES FIELD WIRING
DENOTES INTERNAL WIRING

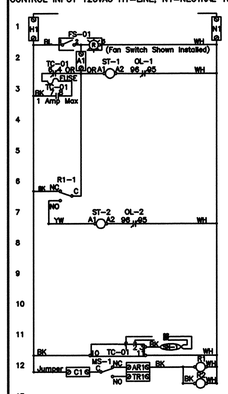
WIRE COLOR

BK - BLACK	YW - YELLOW
BL - BLUE	GR - GREEN
BR - BROWN	GY - GRAY
OR - ORANGE	PR - PURPLE
RD - RED	PK - PINK
WH - WHITE	

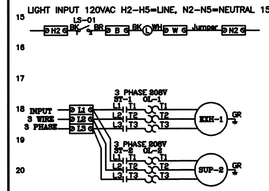
ELECTRICAL PREWIRE PACKAGE

DRAWING NUMBER *311110FP*	JOB NAME *MAXEY COLLEGE-USC*	DATE *11/16/2011*
	JOB NUMBER *1446820*	DRAWN BY

CONTROL INPUT 120VAC H1=LINE, N1=NEUTRAL 15A BKR DO NOT WIRE TO SHUNT TRIP BREAKER



LIGHT INPUT 120VAC H2-H5=LINE, N2-N5=NEUTRAL 15A BKR (MAX 1400W PER CIRCUIT)



3 Phase, W/ 1 Exhaust Fan, 1 Supply Fan, Exhaust in Fire, Fan On/Off Thermostatically Controlled.

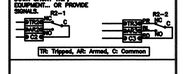
COMPONENT PARTS LIST

LABEL	DESCRIPTION
C-x	Contactor
ST-x	Starter
OL-x	Overload
FS-xx	Fan Switch (Lighted)
FUSE	1 AMP SLO-BLO FUSE-PS-11_FUSE
LS-xx	Light Switch
L	Hood Light(s)
MS-x	MicroSwitch (Area4/PyroChem)
Rx	Relay DPDT - 34.110.0140.0 + Socket

TC-XX TEMPERATURE CONTROLLER PXR4-WN31-0VGN8
SH-X Temp Sensor A/100-3M-PO-4"-EXPL (Note 1)

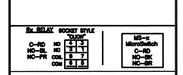
SPARE FIRE DRY CONTACTS

SPARE RELAY CONTACTS USED WHEN FIRE SYSTEM DISCHARGES TO SHUT DOWN SHORT TERM EQUIPMENT... OR PROVIDE SIGNALS.



TR: Tripped, AR: Armed, C: Common

Rx RELAY SOCKET STYLE



MOTOR	TAG	PH	VLT	HP	FLA	BRK
EXH-1		3	208	1.5	4.7	15A
SUP-2		3	208	1	3.3	--

NOTES

DENOTES FIELD WIRING
DENOTES INTERNAL WIRING

WIRE COLOR

BK - BLACK	YW - YELLOW
BL - BLUE	GY - GRAY
BR - BROWN	PR - PURPLE
OR - ORANGE	OR/BK - ORANGE/BLUE (STRIPE)
RD - RED	BL/RD - BLUE/RED (STRIPE)
WH - WHITE	RD/GN - RED/GREEN (STRIPE)

DRAWING SHOWN DE-ENERGIZED
NOTE: IF WALL MOUNT PREWIRE, OR FIELD INSTALLED FIRE SYSTEM MICROSWITCH, THE TERMINALS SHOWING FACTORY WIRING MUST BE FIELD WIRED.

NOTE 1: RTD TEMP SENSOR FIELD WIRED WHEN RIBBON SHIPPED LOOSE. WHEN MULTIPLE TEMP SENSORS USED ON ONE FAN SWITCH. EACH SENSOR IS WIRED TO ITS OWN CONTROLLER AND THE CONTROLLER TERMINALS 4, 7, 10 AND 11 ARE WIRED IN PARALLEL. A 1 AMP SLO-BLO FUSE CONNECTS BETWEEN TERMINALS 8 AND 9 ON EACH CONTROLLER.

12 x 18 x 6 Box

ELECTRICAL PACKAGES

NO.	TAG	PACKAGE #	LOCATION	SWITCHES		ROOFTOP STARTERS	OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY			TYPE	ø	H.P.	VOLT	FLA
1		311110FP	Ship Loose With Hood	Face Mount Right Side Hood	1 Light		Exhaust On In Fire, Fans On/Off Thermostatically Controlled	Exhaust	3	1.500	208	4.7
				Hood # 1	1 Fan							
								Supply	3	1.000	208	3.3

Partner In Charge: JCB
Project Architect: JCB
Drawn By: TMF
Date Drawn: 11/06/11

Revisions
No. ____ Date ____
No. ____ Date ____
No. ____ Date ____
No. ____ Date ____
No. ____ Date ____
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No. ____ Date ____
No. ____ Date ____
No. ____ Date ____
Issue Date ____

STATE OF SOUTH CAROLINA
JHS ARCHITECTURE INTEGRATED DESIGN, INC.
Columbia, SC
No. 02075
REGISTERED ARCHITECTS

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JHS Architecture :-
Integrated Design

STATE OF SOUTH CAROLINA
CLINTON
REGISTERED ARCHITECT
2/2/12

Project: MAXCY COLLEGE RENOVATION
PROJECT # H27-6073-AC

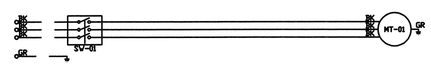
Sheet Title: FIRST FLOOR UPFIT PLAN

Architecture: Integrated Design
1812 LINCOLN STREET
THIRD FLOOR
COLUMBIA, SC 29201-2310
PHONE: 1.803.252.2400
FAX: 1.803.252.1630

Project Number: 961

Sheet: K3.2

Exhaust Fan Wiring	JOB NAME MAXEY COLLEGE-USC	DATE 11/16/2011
DRAWING NUMBER EXH1446820-1	JOB NUMBER 1446820	MODEL NCA24HPPA



Installed Options

Component Identification

Label	Description	Location
MT-01	Fan Motor	(2)
SV-01	Main disconnect switch	(2)

MOTOR INFO

EXHAUST 1.5HP-208V-3P-4.7FLA

ELECTRICAL INFORMATION

MOTOR/CONTROL CIRCUIT 15A
MOTOR/CONTROL MCP: 15A

NOTES

DENOTES FIELD WIRING
DENOTES INTERNAL WIRING

WIRE COLOR

BK - BLACK	YW - YELLOW
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BR - BROWN	GY - GRAY
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RD - RED	PK - PINK
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AirHandler Wiring	JOB NAME MAXEY COLLEGE-USC	DATE 11/16/2011
DRAWING NUMBER A1446820-2	JOB NUMBER 1446820	MODEL DNJ060-G12

ATTENTION ELECTRICIAN!
DROP FOR DISCONNECT CONNECTION IS FACTORY SUPPLIED
CONNECT POWER TO THE DROP

Installed Options

Component Identification

Label	Description	Location
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SV-01	Main disconnect switch	(2)

MOTOR INFO

SUPPLY 1HP-208V-3P-3.3FLA

ELECTRICAL INFORMATION

MOTOR/CONTROL CIRCUIT 15A
MOTOR/CONTROL MCP: 15A

NOTES

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DENOTES INTERNAL WIRING

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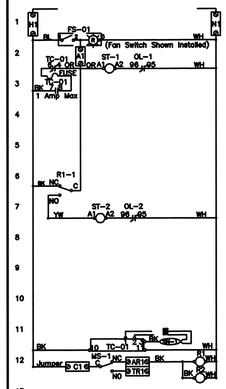
ELECTRICAL PREWIRE PACKAGE	JOB NAME MAXEY COLLEGE-USC	DATE 11/16/2011
DRAWING NUMBER 311110FP	JOB NUMBER 1446820	DRAWN BY

CONTROL INPUT 120VAC H1=LINE, N1=NEUTRAL 15A BKR DO NOT WIRE TO SHUNT TRIP BREAKER



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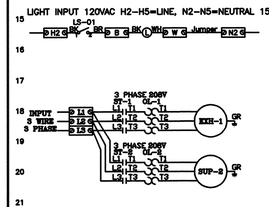

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COMPONENT PARTS LIST

LABEL DESIGNATION
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ST-x Starter
OL-x Overload
FS-xx Fan Switch (Lighted)
FUSE 1 AMP SLO-BLO FUSE-PS-11_FUSE
LS-xx Light Switch
L Hood Light(s)
MS-x Microswitch (Ansul/PyroChem)
Rx Relay DPDT - 34.110.0146.0 + Socket

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RM-X Temp Sensor A/100-3M-PO-4"-EXPL (Note 1)

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SPARE RELAY CONTACTS
USED WHEN FIRE SYSTEM
DISCHARGES TO SHUT
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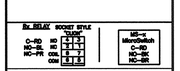
TR: Tripped, AR: Armed, C: Common

Rx RELAY SOCKET STYLE



MOTOR	TAG	PH	VLT	HP	FLA	BRK
EXH-1		3	208	1.5	4.7	15A
SUP-2		3	208	1	3.3	--

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DRAWING: SHOWN DE-ENERGIZED
NOTE: IF WALL MOUNT PRECWIRE, OR FIELD INSTALLED FIRE SYSTEM MICROSWITCH, THE TERMINALS SHOWING FACTORY WIRING MUST BE FIELD WIRED.

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				Hood # 1	1 Fan							
								Supply	3	1.000	208	3.3

Partner In Charge
JCB
Project Architect
JCB
Drawn By
TMF
Date Drawn
11/06/11

Revisions
No. ____ Date ____
No. ____ Date ____
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No. ____ Date ____
Issue Date ____

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JHS Architecture :-
Integrated Design

Project
MAXCY COLLEGE RENOVATION
PROJECT # H27-6073-AC

Sheet Title
FIRST FLOOR UPFIT PLAN

Architecture: Integrated Design
1812 LINCOLN STREET
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PHONE: 1.803.252.2400
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