

1 MECHANICAL PLAN

MECHANICAL KEY NOTES

- 1 PROVIDE DUCT MOUNTED SMOKE DETECTOR, TIE IN AUDIO-VISUAL DOWN AND ACTIVATE ALARM. COORDINATE INSTALLATION LOCATION WITH ACCESS REQUIREMENTS.
- 2 PROVIDE HONEYWELL VISION PRO 8000 TOUCHSCREEN 7-DAY PROGRAMMABLE THERMOSTAT WITH AUTO-CHANGEOVER AND AUTOMATIC START CAPABILITY. MOUNT THERMOSTAT 48" ABOVE FINISHED FLOOR. COORDINATE FINAL INSTALLATION LOCATION OF THERMOSTAT WITH OWNER'S REPRESENTATIVE.
- 3 PROVIDE MICROPROCESSOR REMOTE INTERFACE. MOUNT MICROPROCESSOR REMOTE INTERFACE 48" ABOVE FINISHED FLOOR. COORDINATE FINAL INSTALLATION LOCATION OF MICROPROCESSOR REMOTE INTERFACE WITH
- PROVIDE COMBINATION TEMPERATURE/HUMIDITY SENSOR. MOUNT SENSOR 48" ABOVE FINISHED FLOOR. HUMIDITY SENSOR SHALL OPERATE REFRIGERATION SYSTEM AND INITIATE HOT GAS REHEAT AS REQUIRED TO
- 5 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. REFER TO HOOD DRAWING SET ON SHEET M3.1-M3.4 FOR
- 6 INSTALL OWNER FURNISHED UL-2221 LISTED DOUBLE-WALL GREASE DUCT, EQUAL TO FRANKE SYSTEMS MODEL FRDW-2R ROUND 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER 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
- EQUIPMENT LOCATION.
- PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 10 UNDERCUT DOOR BY 3/4" FOR AIR TRANSFER
- 11 PULL STATION & TENSION CABLE FOR KITCHEN HOOD FIRE SUPPRESSION SYSTEM ACTIVATION TO BE PROVIDED BY FIRE SUPPRESSION SUBCONTRACTOR. GENERAL CONTRACTOR TO COORDINATE WITHE ELECTRICAL CONTRACTOR FOR JUNCTION BOX AND CONDUIT TO PULL STATION. LINE-SIZED MECHANICAL (OR ELECTRICAL) GAS SHUT OFF VALVE PROVIDED BY HOOD VENDOR. FIRE SUPPRESSION SUBCONTRACTOR SHALL VERIFY APPROVED LOCATION WITH LOCAL AUTHORITY AND COORDINATE THE COMPLETE INSTALLATION WITH ALL OTHER TRADES

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
- AND TRADE COORDINATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING WORK.
- C. DRAWINGS FOR HVAC 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 INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY FOR A COMPLETE
- PERMITS ASSOCIATED WITH THE WORK. OBTAIN ALL INSPECTIONS REQUIRED BY CODE.

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

* DIFFUSER NECK SIZES SHALL MATCH SUPPLY AIR DUCT SIZING.

ANNUNCIATOR. UPON DETECTION OF SMOKE, ROOFTOP UNIT SHALL SHUT

- OWNER'S REPRESENTATIVE.
- MAINTAIN SPACE HUMIDITY AT 55% RH.
- HOOD SPECIFICATION AND ADDITIONAL INFORMATION.
- 7 DUCT UP TO EQUIPMENT ON ROOF. REFER TO SHEET M1.2 FOR
- 8 INSTALL ROOM TEMPERATURE SENSOR FOR HOOD THERMOSTATIC CONTROL. SEE HOOD DRAWING SET ON M3.1-M3.4 FOR HOOD SPECIFICATIONS AND ADDITIONAL INFORMATION.
- 9 PROVIDE AIR CURTAIN. MOUNT UNIT ON WALL DIRECTLY ABOVE DOOR

- 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 DUCT RISES AND DROPS AS REQUIRED FOR FIELD INSTALLATION
- D. ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE GOVERNING CITY. PURCHASE ALL
- E. SUPPORT NEW MECHANICAL SYSTEMS WITH SEISMIC RESTRAINTS IN ACCORDANCE WITH SEISMIC HAZARD LEVEL 'A' OF THE SEISMIC RESTRAINT MANUAL, AS PUBLISHED BY SMACNA, AND IN ACCORDANCE WITH THE CALIFORNIA BUILDING CODE, LATEST EDITION.

AIR DISTRIBUTION SIZING - ROUND DUCT

SUPPLY AND EXHAUST		RETURN AIR
<u>air cfm range</u>	<u>DUCT SIZE</u>	<u>CFM_RANGE</u>
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

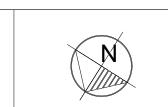
REVISIONS No. Date Description 8/01/2023 RESPONSE TO CITY 2 9/04/2023 **HEALTH COMMENTS** 3 9/12/2023 RESPONSE TO CITY

Description

ISSUE TABLE

Date

Description
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PROJECT NORTH

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Company Logo

9.13.2023

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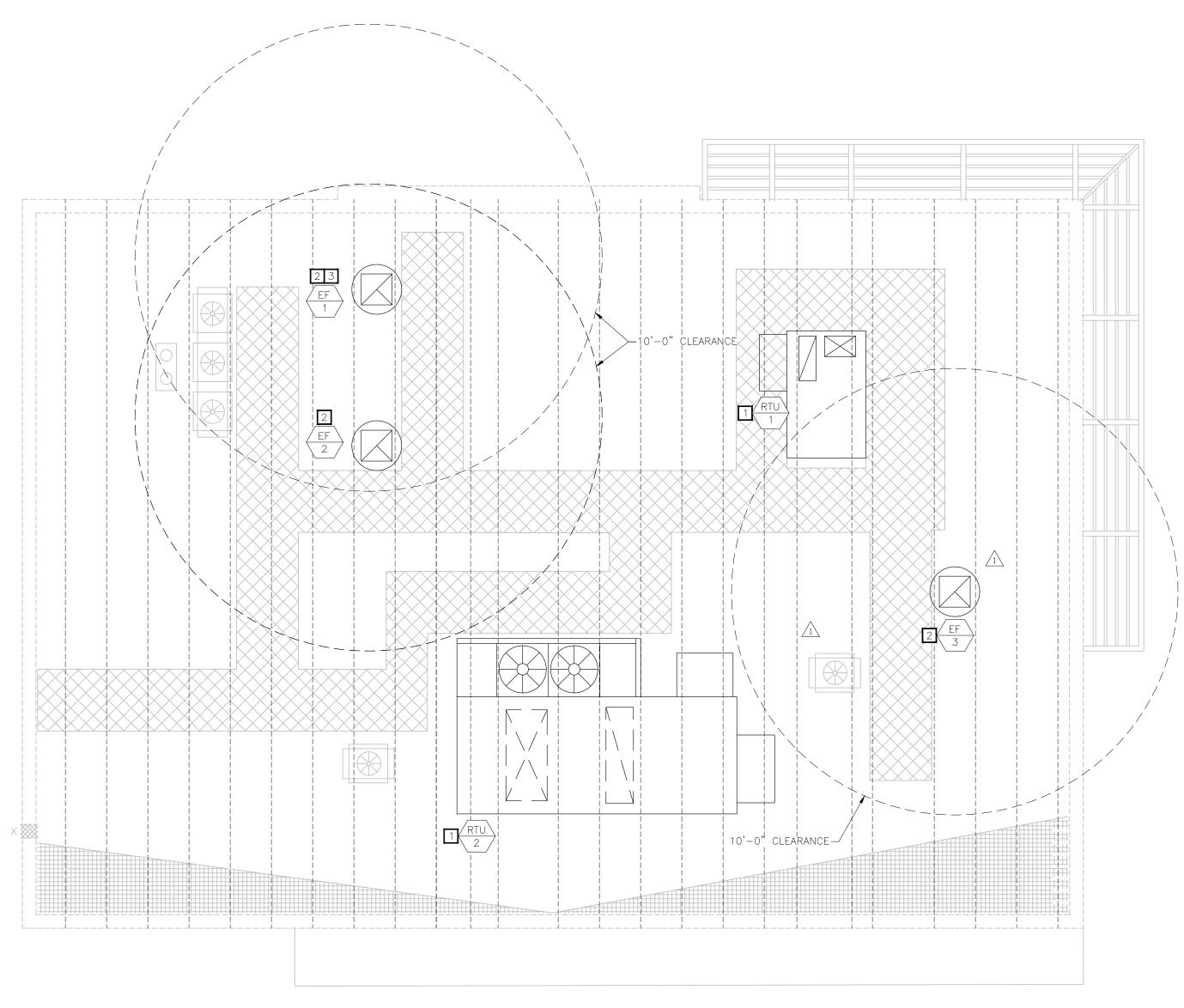


US 2112 PROTOTYPE 2112-21

1517 NC 24-87 CAMERON, NC

MECHANICAL PLAN

Drawn	Checked
NI	AH
Scale	Date
1/4" = 1'-0"	JUNE 2023
Project No.	Drawing No.
C22-129	M1.1



1/4"=1'-0"

MECHANICAL KEY NOTES

- PROVIDE 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 ON SHEET M1.1.
- 2 INSTALL OWNER FURNISHED ROOF MOUNTED EXHAUST FAN AND CURB.
- INSTALL OWNER FUNISHED WIND BAND EXTENSION FOR GREASE EXHAUST FAN. EXHAUST TERMINATION MUST BE EQUAL OR HIGHER THAN ANY WALL OR PARAPET WITHIN 5'-0" OF FAN. VERIFY REQUIRED HEIGHT PRIOR TO BID AND COORDINATE WITH HOOD MANUFACTURER FOR ADDITION TO EQUIPMENT PRIOR TO BID.

GENERAL NOTES

- A. SEAL ALL ROOF PENETRATIONS WATER TIGHT. COORDINATE ALL PENETRATIONS WITH GENERAL CONTRACTOR AND ROOFING CONTRACTOR.
- B. ALL OUTDOOR INTAKES SHALL BE LOCATED AT LEAST 10 FEET FROM EXHAUST OUTLETS, APPLIANCE FLUES AND PLUMBING VENTS.
- C. MAINTAIN ALL CODE AND MANUFACTURER'S RECOMMENDED CLEARANCES AROUND ALL ROOF EQUIPMENT.

ISSUE TABLE

	No.	Date (mm/dd/yy)	Description
-			

REVISIONS

11211010110							
No.	Date	Description					
1	8/01/2023	RESPONSE TO CITY					
2	9/04/2023	HEALTH COMMENTS					
3	9/12/2023	RESPONSE TO CITY					

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description



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Store Type

US 2112 PROTOTYPE 2112-21

1517 NC 24-87 CAMERON, NC

MECHANICAL ROOF PLAN

Drawn	Checked
NI	AH
Scale	Date
1/4" = 1'-0"	JUNE 2023
Project No.	Drawing No.
C22-129	M1.2

2018 INTERNATIONAL	MECHANICA	AL CODE - TA	BLE 403.3.1	.1 VENTILATION	SUMMARY															
OCCUPANCY CATEGORY	PEOPLE OUTDOOR AIR RATE - (Rp)	AREA OUTDOOR AIR RATE - (Ra)	OCCUPANCY DENSITY	OCCUPANCY CLASSIFICATION	CALCULATED OCCUPANCY DENSITY		EXPECTED TO	Rp*Pz	Ra*Az	AREA - (Az)	ZONE AIR DISTRIBUTION EFFECTIVENESS	BREATHING ZONE OUTDOOR - AIRFLOW - (Vbz)	ZONE OUTDOOR AIRFLOW (Voz) Voz=Vbz/Ez	ZONE PRIMARY AIRFLOW (Vpz)	PRIMARY OUTDOOR AIR FRACTION (Zp)	OCCUPANT DIVERSITY RATIO (D)	UNCORRECTED OUTDOOR AIR INTAKE (Vou)	SYSTEM VENTILATION EFFICIENCY	CORRECTED OUTDOOR AIRFLOW (Vot)	OUTDOOR
	(CFM/PERSON)	(CFM/SQ.FT.)	P/1,000 SQ.FT.	P/1,000 SQ.FT.			ZONE - (Pz)			SQ.FT.	Ez	CFM			Zp=Voz/Vpz		CFM	Ev	CFM	CFM
RTU-1																				
DINING	7.5	0.18	70	DINING	26	_	26	194	67	370	0.8	261	326	1400	0.23		261		284	
SALES	7.5	0.12	20	KITCHEN	3	_	3	20	16	130	0.8	35	44	400	0.11		35		35	
VESTIBULE	<u> </u>	0.06	_	CORRIDOR	_	<u> </u>	_	_	2	40	0.8	2	3	150	0.02		2		3	
RESTROOM	_	_	_	RESTROOM	_	_	_	_	_	55	0.8	_	_	50	_		_		_	
		•		SYSTEM POPULATIO	N INCLUDING DIV	/ERSITY (Ps) =	26				•			MAX. Zp =	0.23	1.00	298	0.92	324	400
	•															•			•	
DOAS-1																				
KITCHEN	7.5	0.12	20	KITCHEN	4	_	4	32	25	210	0.8	57	71	1600	0.04		57		57	
вон	7.5	0.12	20	KITCHEN	14	_	14	107	85	710	0.8	192	240	2800	0.09		192		192	
DRIVE THRU	7.5	0.12	20	KITCHEN	2	_	2	17	13	110	0.8	30	37	400	0.09		30		30	
		•		SYSTEM POPULATIO	N INCLUDING DIV	/ERSITY (Ps) =	21		•	•	•			MAX. Zp =	0.09	1.00	278	1.00	278	2,500

MARK (RTU-#)	1	2	
MANUFACTURER	CARRIER	GREENHECK	
MODEL	50GCBK06	RV-45-15	
AIR FLOW (CFM)	2,000	5,000	
OA FLOW (CFM)	400	2,500	
AMBIENT OAT (*F)	95.5	95.5	
EXTERNAL STATIC (IN. W.C.)	0.60	1.00	
DX COOLING COIL			
EAT (*FDB/WB)	80/67	80/67	
TOTAL (BTU/HR)	59,000	202,000	
SENSIBLE (BTU/HR)	46,800	141,100	
ELECTRIC HEAT			
FUEL	ELECTRIC (332A)	ELECTRIC	
ELECTRIC HEAT (KW)	18.4	57.4	
WINTER SA TEMP (°F)	87	81	
FLA (Amps)	51.1	159.3	
ELECTRICAL			
VOLTS/Ø/HZ	208-230/3/60	208/3/60	
UNIT MCA	83	181.3	
MOCP AMPS	90	200	
APPROX. WEIGHT (LBS)	844	3,012 (±5%)	
EER (SEER)	12.8 (17.4)	11	
NOTES	1-14	1-11,13-15	<u> </u>

- 1) PROVIDE FACTORY FABRICATED 14" HIGH ROOF CURB. CURB SHALL MATCH SLOPE OF ROOF. REFER TO ARCHITECTURAL DRAWINGS
- FOR ADDITIONAL INFORMATION 2) PROVIDE FACTORY MOUNTED WEATHERHOOD AND BIRDSCREEN AT OUTSIDE AIR INTAKE.
- 3) PROVIDE FACTORY INSTALLED LOW-LEAK DRY BULB ECONOMIZER WITH FAULT DETECTION AND DIAGNOSTICS.
- 4) PROVIDE UNIT WITH LOUVERED HAIL GUARDS.
- PROVIDE 5 MINUTE COMPRESSOR RESTART TIME DELAY.
- 6) PROVIDE FILTER RACK AND 2 SETS OF MERV 8 FILTERS.
- 7) PROVIDE FACTORY MOUNTED AND WIRED DISCONNECT SWITCH.
- 8) CONTRACTOR SHALL INSTALL ALL COMPONENTS SHIPPED LOOSE TO THE FIELD.
- 9) PROVIDE WITH FACTORY CONDENSATE OVERFLOW SWITCH, FOIL FACED INSULATION, AND HINGED ACCESS PANELS. 10) SET MINIMUM OUTSIDE AIR AS SPECIFIED ABOVE. FIELD SET 2 MINIMUM POSITIONS TO MAINTAIN SCHEDULED OUTSIDE AIR FLOW
- RATE AT SUPPLY FAN MINIMUM AND MAXIUM SPEEDS. OUTSIDE AIR DAMPER SHALL FULLY CLOSE UPON UNIT SHUTDOWN
- 11) PROVIDE POWERED GFCI CONVENIENCE OUTLET. OUTLET TO BE POWERED BY LINE SIDE OF DISCONNECT.
- 12) PROVIDE FAN WITH 2-SPEED FAN CONTROL.
- 13) PROVIDE FACTORY MOUNTED POWER EXHAUST.
- 14) PROVIDE HOT GAS REHEAT COIL FOR DEHUMIDIFICATION WITH HUMIDISTAT SET TO 55% R.H.
- 15) PROVIDE FACTORY MOUNTED SINGLE ZONE VAV AND DIGITAL SCROLL COMPRESSOR.



AIR BALANCE SCHEDULE							
	RTU-1	RTU-2	EF-1	EF-2	EF-3	TOTALS	
OUTSIDE AIR FLOW (CFM)	400	2,500	0	0	0	2,900	
RETURN AIR FLOW (CFM)	1,600	2,500	0	0	0	4,100	
SUPPLY AIR FLOW (CFM)	2,000	5,000	0	0	0	7,000	
EXHAUST AIR FLOW (CFM)	0	0	1,230	1,230	75	2,535	
BUILDING PRESSURE (CFM)	400	2,500	-1,230	-1,230	-75	365	
RESULTING BUILDING PRESSURIZATION (CFM)							

EXHAUST AND VENTILATION FAN SCHEDULE - OWNER FURNISHED						
MARK (EF#)	1	2	3			
MANUFACTURER	FRANKE	FRANKE	FRANKE			
MODEL	FR-DU50HFA	FR-DU50HFA	FR-DR10HFA			
TYPE	UPBLAST	UPBLAST	DOWNBLAST			
DRIVE TYPE	DIRECT	DIRECT	DIRECT			
PERFORMANCE						
AIR FLOW (CFM)	1,230	1,230	75			
EXT. STATIC (IN W.C.)	0.8	0.8	0.125			
FAN SPEED (RPM)	1,500	1,500	1,015			
ELECTRICAL						
VOLTS/Ø/HZ	120/1/60	120/1/60	120/1/60			
FAN MOTOR HP	1/2	1/2	1/8			
ACCESSORIES	GDC,RC,WB	GDC,RC	BD,BS,DS,RC,SC			
APPROX. WEIGHT (LBS)	120	120	75			
SERVES	HOOD	HOOD	RESTROOM			
NOTES	1,2,3	1,2,3	3,4			

- BD-BACKDRAFT DAMPER, BS-BIRD SCREEN, DS-DISCONNECT SWITCH, GDC-GREASE DRAIN AND CUP,
- RC-ROOF CURB PER HOOD PACKAGE SPECIFICATION, SC-FACTORY MOUNTED AND WIRED SPEED CONTROL,

WB-WIND BAND EXTENSION, WP-NEMA 3R DISCONNECT SWITCH

- 1) FAN SHALL BE CONTROLLED BY SWITCH AT KITCHEN HOOD. INTERLOCK RTU-1 AND RTU-2 TO OPERATE IN OCCUPIED MODE
- WHILE HOOD EXHAUST FAN IS ENERGIZED. SEE HOOD PACKAGE ON M3.x SHEETS FOR MORE INFORMATION.
- 2) PROVIDE WITH VARIABLE SPEED CONTROLLER. 3) COORDINATE WITH MANUFACTURER FOR FINAL SELECTION.
- 4) ELECTRICAL CONTRACTOR SHALL INTERLOCK FAN WITH TIMECLOCK.

<u> </u>	AND DIFFUSER	JOHEDOLL	
MARK	A	В	С
MANUFACTURER	TITUS	TITUS	TITUS
MODEL	TMS-AA	TMS-AA	PAR-AA
TYPE	SQUARE CONE	SQUARE CONE	PREFORATED FA
	DIFFUSER	DIFFUSER	DIFFUSER
NECK SIZE (L''XW'')	PER PLAN	PER PLAN	PER PLAN
FACE SIZE (L"XW")	24"X24"	24"X24"	24"X24"
FRAME TYPE	LAY-IN	LAY-IN	LAY-IN
FINISH	WHITE	WHITE	WHITE
NOISE CRITERIA LEVEL	<30	<30	<30
ACCESSORIES		TRM	
MARK	D	E	F
MANUFACTURER	TITUS	TITUS	TITUS
MODEL	TMS-AA	355FL	50F
TYPE	SQUARE CONE	LOUVERED	EGGCRATE GRIL
	DIFFUSER	EXHAUST GRILLE	
NECK SIZE (L"XW")	PER PLAN	10"X10"	22"X22"
FACE SIZE (L"XW")	12"X12"	12"X12"	24"X24"
FRAME TYPE	LAY-IN	SURFACE	LAY-IN
FINISH	WHITE	WHITE	WHITE
NOISE CRITERIA LEVEL	<30	<30	<30
NOISE CIXITEIXIA EEVEL			

STR-SQUARE TO ROUND TRANSITION (AS REQUIRED), TRM-RAPID MOUNT SHEETROCK FRAME

MARK (AC-#)	1	
MANUFACTURER	MARS	
MODEL	LPV236-1UA-OB	
AIR FLOW (CFM)	900	
ELECTRICAL		
VOLTS/Ø/HZ	115	
MOTOR QUANTITY	1	
MOTOR HP	1/6	
MCA (AMPS)	3	
MOCP (AMPS)	15	
FINISH	OBSIDIAN BLACK	
APPROX. WEIGHT (LBS)	32	
NOTES	1-3	

- 1) PROVIDE WITH INTREGRAL DISCONNECT SWITCH.
- 2) PROVIDE WITH DOOR MICRO-SWITCH. 3) PROVIDE WITH FILTER.
- 4) PROVIDE MOUNTING HARDWARE REQUIRED BY MANUFACTURER FOR COMPLETE INSTALLATION.

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DED	No.	Date (mm/dd/yy)	Description
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REVISIONS

112110		
No.	Date	Description
1	8/01/2023	RESPONSE TO CITY
2	9/04/2023	HEALTH COMMENTS
3	9/12/2023	RESPONSE TO CITY

DRAWINGS REVISED AS PER DESIGN BULLETIN

	No.	Date	Description



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9.13.2023

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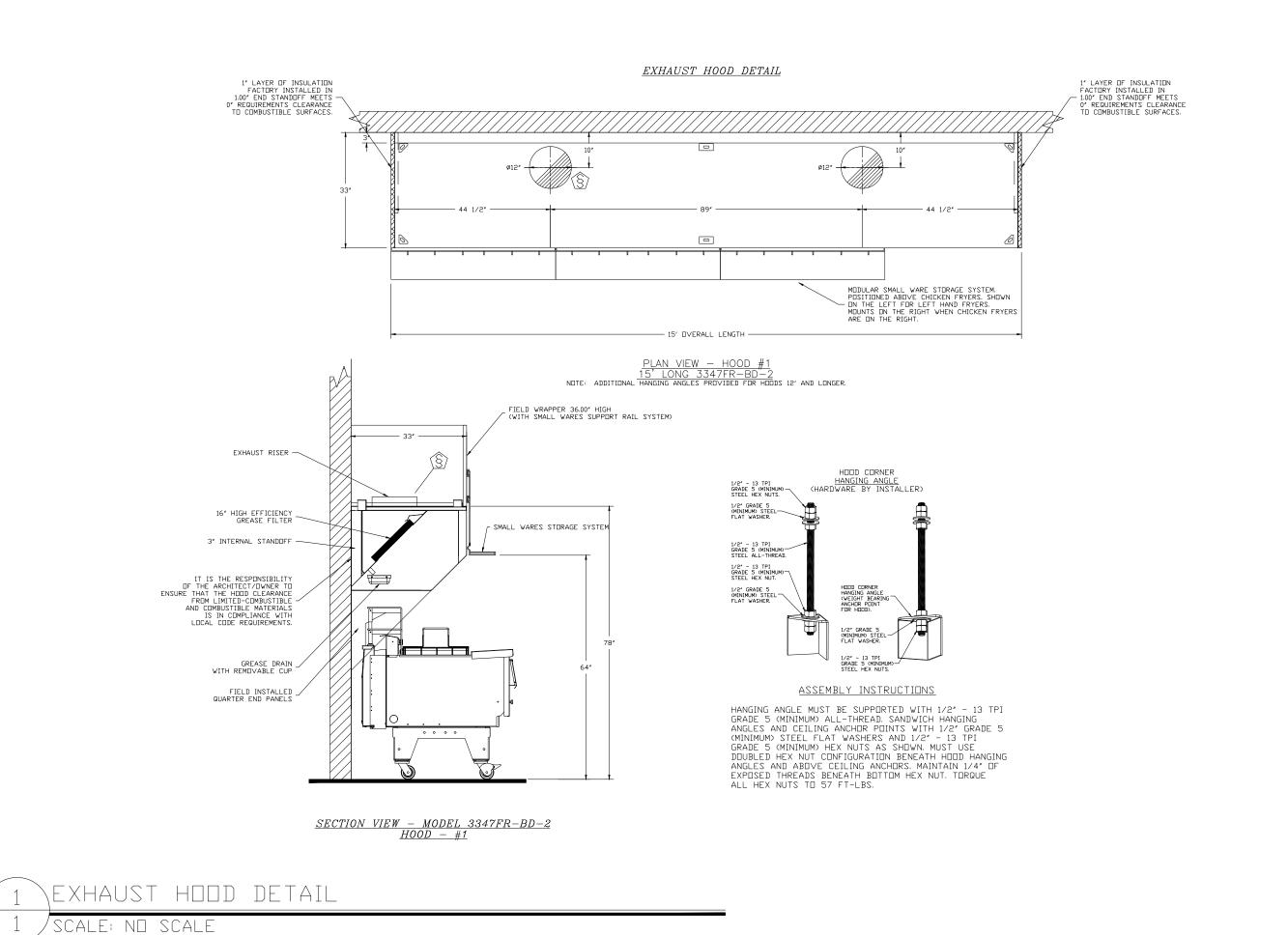


US 2112 PROTOTYPE 2112-21

1517 NC 24-87 CAMERON, NC

MECHANICAL SCHEDULES

Drawn	Checked	
NI	AH	
Scale	Date	
1/4" = 1'-0"	JUNE 2023	
Project No.	Drawing No.	
C22-129	M2.1	

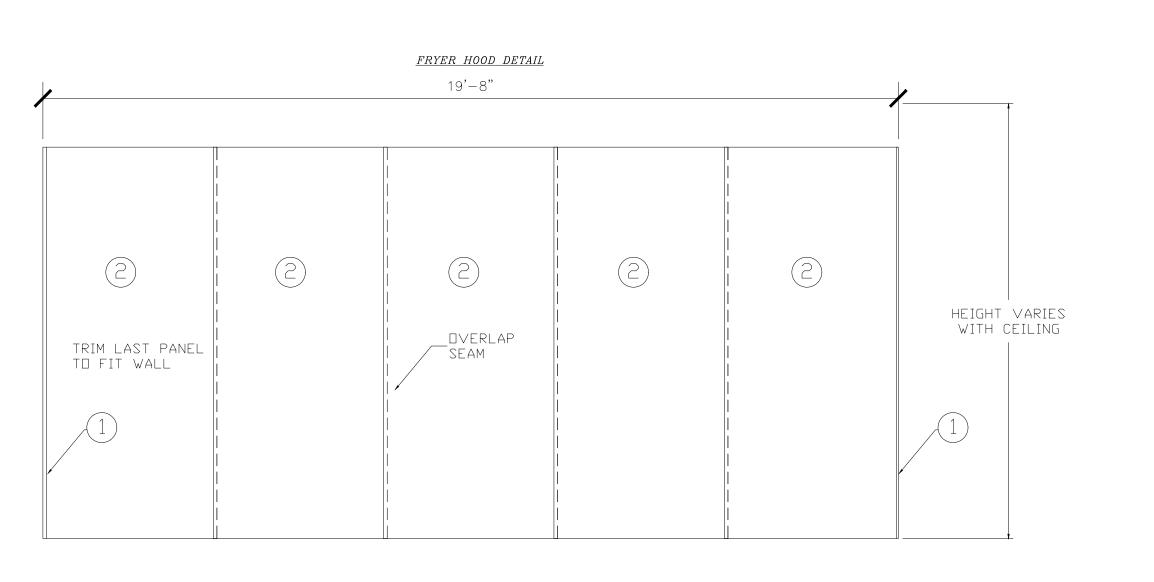


PLK 2112 15' HOD PACKAGE

FRANKE FOODSERVICE SYSTEMS AMERICAS, INC.

800 AVIATION PARKWAY SMYRNA, TN USA 37167

PHONE: 1-800-877-5178 WWW.FRANKESUPPLY.COM FS-BKSALES.US@FRANKE.COM



COVERS ENTIRE WALL BEHIND HOOD

ITEM	QTY	DESCRIPTION
1	2	S/S CAP STRIP
2	5	WALL FLASHING 48" WIDE



							No.	(mm/dd/yy)	Description
					AM029	By			
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							REVIS	SIONS	
							No.	Date	Description
							1	8/01/2023	RESPONSE TO CITY
							2	9/04/2023	HEALTH COMMENTS
							3	9/12/2023	RESPONSE TO CITY
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ISSUE TABLE



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POPEYES

Site ID

Operator

City - -

Region

Building Type

Gas Service

Created by:

HP033

Market Manager

Franke Project Number

Electrical Service

Site Address

State Zip Code

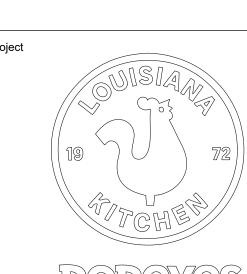
PLK 2112

INSTALLATION DETAIL

WALL MOUNTED

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Country Store Type US 2112 PROTOTYPE 2112-21

> 1517 NC 24-87 CAMERON, NC

Date Issued 10/01/20 Modified By: AM029 Drawing Scale AS NOTED Units INCHES Drawing Number

Sheet Name 1 OF 4 Drawing Title MECHANICAL HOOD DRAWINGS

Revision Checked AH 1/4" = 1'-0" JUNE 2023 Project No. Drawing No. M3.1 C22-129

EXHAUST FAN DATA

EXHA	UST FA	4N INI	FORMATION - PLK 21	36 PROTO												
FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	ВНР	ø	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	
1	EF-LEFT	1	FR-DU50HFA	FRANKE FOODSERVICE	1231	0.800	1501	TEAD-ECM	0.500	0.3500	1	115	6.3	468 FPM	78	Ī
2	EF-RIGHT	1	FR-DU50HFA	FRANKE FOODSERVICE	1231	0.800	1501	TEAD-ECM	0.500	0.3500	1	115	6.3	468 FPM	78	Ī
FAN FAN UNIT NO	<i>OPTION</i> TAG	QTY		DESCRIPTIO	IN .											
		1	GREASE BOX.													
1	EF-LEFT	Т 1	EXHAUST FAN HEAT BAFFLE.	EXHAUST FAN HEAT BAFFLE.												
		1	ECM WIRING PACKAGE - PW	M SIGNAL FROM ECPMO3	PREWIRE	(TELCO M	OTOR), (CCW ROTAT	IDN.							
		1	GREASE BOX.													
2	EF-RIGH	T 1	EXHAUST FAN HEAT BAFFLE.													
		1	ECM WIRING PACKAGE - PW	M SIGNAL FROM ECPMO3	PREWIRE	(TELCO M	DTDR), I	CCW ROTAT	IDN.							

FAN ACCESSORIES GREASE GRAVITY WALL SIDE GRAVITY MOTORIZED WALL CUP DAMPER MOUNT DISCHARGE DAMPER DAMPER MOUNT

CURB ASSEMBLIES

GREASE BOX.
EXHAUST FAN HEAT BAFFLE.
FAN BASE CERAMIC SEAL - SHIP LOOSE FOR GREASE DUCTS.
ECM WIRING PACKAGE - MANUAL DR
0-10VDC REFERENCE SPEED CONTROL
(TELCO MOTOR), CCW ROTATION.

YEXHAUST FAN DATA

TAG WEIGHT 19.500"W X 19.500"L X 24.000"H HINGED.

FEATURES: - DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS). - RESTAURANT MODEL. - VARIABLE SPEED CONTROL. INTERNAL WIRING. - THERMAL OVERLOAD PROTECTION (SINGLE PHASE). - HIGH HEAT OPERATION 300°F (149°C). - GREASE CLASSIFICATION TESTING. - NEMA 3R SAFETY DISCONNECT SWITCH. 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. ─ 3″ FLANGE. ROOF OPENING DIMENSIONS.

LISTED GREASE DUCT. PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS. SPECIFY PITCH: EXAMPLE: 7/12 PITCH = 30° SLOPE.

FANS #1 (EF-LEFT), #2 (EF-RIGHT) - FR-DU50HFA EXHAUST FAN

13 1/4

- GREASE DRAIN.

DUCTWORK BETWEEN EXHAUST RISER ON HOOD AND FAN (BY OTHERS).

EXHAUST HOOD DATA

HOOD INFORMATION - PLK 2136 PROTO MODEL MANUFACTURER MEDIUM 166 2462 4" 12" 1231 1567 -0.734" 430 SS 4" 12" 1231 1567 -0.734" WHERE EXPOSED

HOOD INFORMATION FIRE HOOD SYSTEMHANGING PIPING WEIGHT ELECTRICAL SWITCHES EFFICIENCY @ 7 MICRONS WIRE LOCATION SIZE QTY HEIGHT LENGTH TYPE MODEL # SIZE QUANTITY HIGH EFFICIENCY

> (\$) GREASE DUCT & CHIMNEY SPECIFICATIONS: PROVIDE GREASE DUCT EQUAL TO FRANKE FOODSERVICE SYSTEMS MODEL "FRDW" ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK, MODEL "FRDW" IS LISTED TO UL-1978 AND IS INSTALLED USING "V" CLAMP LOCKING CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL "FRDW" DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER THE MANUFACTURES INSTALLATION GUIDE PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER. PER MANUFACTURES LISTING MODEL "DW" HORIZONTAL RUNS LESS THAN 75 FT. CAN BE SLOPED 1/16" PER 12", HORIZONTAL RUNS MORE THAN 75 FT. CAN BE SLOPED 3/16" PER 12". DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OF GREASE ACCUMULATION IN HORIZONTAL RUNS.

IF THE DUCT OR CHIMNEY IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE UL-2221 OR UL-103 HT LISTED DOUBLE WALL GREASE DUCT OR DOUBLE WALL CHIMNEY | EQUAL TO FRANKE FOODSERVICE SYSTEMS MODEL "FRDW- 2R, 2R TYPE HT, 3R, OR 3Z" RDUND 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS DUTER SHELL.

FRANKE FOODSERVICE SYSTEMS RECOMMENDS THE USE OF LISTED, PRE-FABRICATED ROUND GREASE EXHAUST DUCT TO REDUCE STATIC PRESSURE IN THE SYSTEM, MINIMIZE INSTALLATION AND INSPECTION TIMES, AND ENSURE DUCT IS LIQUID TIGHT

HEIGHT REQUIRED TO VERIFY THAT HOOD FITS SPACE AND TO SIZE THE ENCLOSURE PANELS

HVAC DISTRIBUTION NOTE HIGH VELOCITY DIFFUSERS OR HVAC RETURNS SHOULD NOT BE PLACED WITHIN TEN (10) FEET OF THE EXHAUST HOOD, PERFORATED DIFFUSERS ARE RECOMMENDED.

CUSTOMER APPROVAL TO MANUFACTURE: VERIFY CEILING HEIGHT APPROVED AS NOTED APPROVED WITH NO EXCEPTION TAKEN REVISE AND RESUBMIT

YOUR TITLE ___

FAN ACCESSORIES

ITEM

SUPPLY

GREASE GRAVITY WALL SIDE GRAVITY MOTORIZED WALL CUP DAMPER MOUNT DISCHARGE DAMPER DAMPER MOUNT

17.500"W X 17.500"L X 20.000"H

SIZE

\EXHAUST HOOD DATA

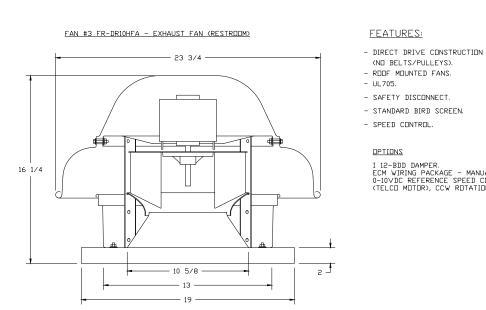
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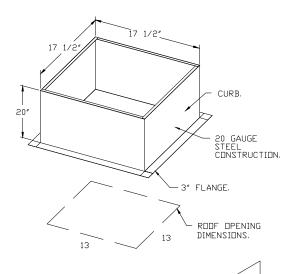
3 RESTROOM

	<u>RESTROOM EXHAUST FAN DATA</u>														
EXHA	AUST FA	$N I \Lambda$	IFORMATION - JOB PLK	PR0T0											
FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	CFM	ESP	RPM	MOTOR ENCL	HP	ВНР	ø	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
3	RESTROOM	1	FR-DR10HFA	75	0.25	1015	TEAD-ECM	0.166	0.02	1	115	1.9		50	1.9
FAN	FAN OPTIONS														
FAN UNIT TAG QTY DESCRIPTION										CURB AS	SSEMBLIE.	<u>S</u>			

1 I 12-BDD DAMPER.

1 ECM WIRING PACKAGE - MANUAL DR 0-10VDC REFERENCE SPEED CONTROL (TELCO MOTOR), CCW ROTATION.



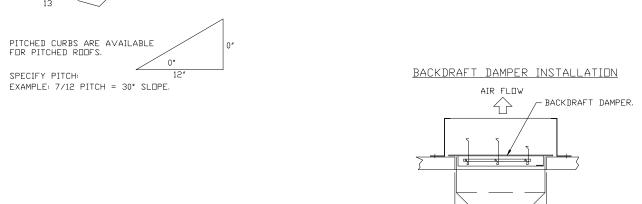


SPECIFY PITCH:

TAG

3 # 3 RESTROOM

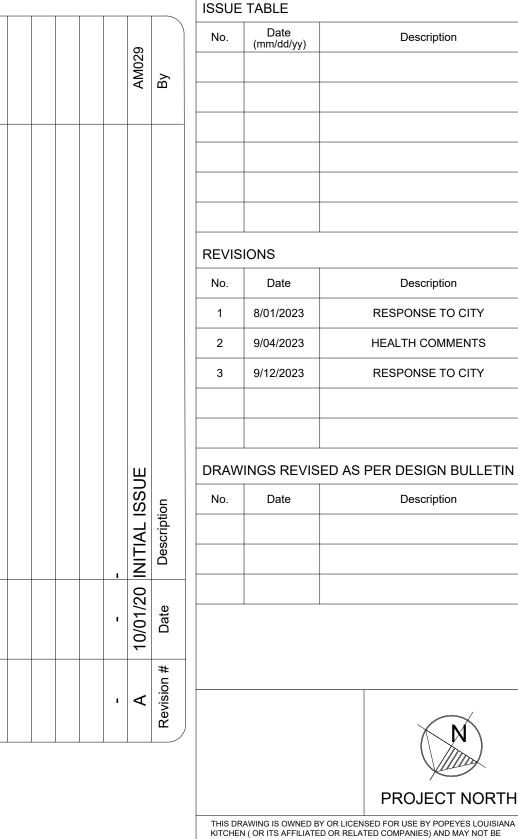
WEIGHT



CUS	TOMER APP	ROVAL	TO MAN	UFACTL	JRE:
APPROVED A	S NOTED				
APPROVED W	ITH NO EXCEPTION TAKEN				
REVISE AND	RESUBMIT				
SIGNATURE _					
YOUR TITLE _		DATE			

5 RESTROOM EXHAUST FAN DATA

2 SCALE: NO SCALE



41082

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Description

Description

RESPONSE TO CITY

HEALTH COMMENTS

RESPONSE TO CITY

PROJECT NORTH

9.13.2023

Franke Foodservice Systems Americas, Inc.

800 Aviation Parkway

FR AN KE

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POPEYES

Site ID

Operator -Site Address

City - -

Region

Building Type

Gas Service

| Market Manager

Franke Project Number

Electrical Service

PLK 2112

INSTALLATION DETAIL

WALL MOUNTED

State Zip Code Country Store Type

Company Logo

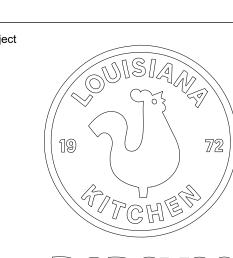
US 2112 PROTOTYPE 2112-21 Location

> 1517 NC 24-87 CAMERON, NC

Created by: HP033 10/01/20 Modified By: AM029 Drawing Scale AS NOTED

Checked INCHES Drawing Number AH 1/4" = 1'-0" JUNE 2023 2 OF 4 Project No. Drawing No. C22-129 M3.2

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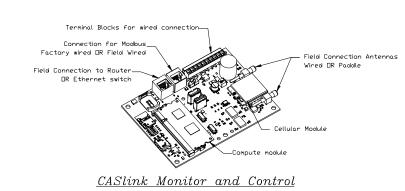


Drawing Title MECHANICAL HOOD

DRAWINGS Revision

Sheet Name





Hood control panel to support communications to cloud-based Building Hood control panel to support communications to cloud-based Building Management System.
 Hood Control Panel to allow cloud-based Building Management System to monitor real time parameters outlined as MONITOR in the points list.
 Hood Control Panel to allow cloud-based Building Management System to control parameters outlined as CONTROL in the points list.
 Hood Control Panel to allow cloud-based Building Management System to implement SYSTEM ECONOMIZER control strategies for fully integrated Building Management.

MONITORING AND CONTROL POINTS LIST

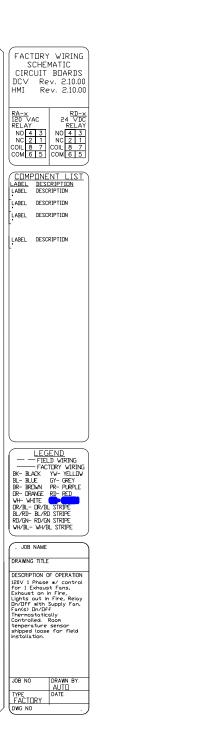
DCV Packages	Function	SC Packages	Function
Room Temperature	MONITOR	Room Temperature(s)	MONITOR
Duct Temperature(s)	MONITOR	Duct Temperature(s)	MONITOR
MUA Discharge Temperature	MONITOR	MUA Discharge Temperature	MONITOR
Kitchen RTU Discharge Temperature	MONITOR	Kitchen RTU Discharge Temperature	MONITOR
Fan Speed	MONITOR	Controller Faults	MONITOR
Fan Amperage	MONITOR	Fan Faults	MONITOR
Fan Power	MONITOR	Fan Status	MONITOR
VFD Faults	MONITOR	PCU Faults	MONITOR
Controller Faults	MONITOR	PCU Filter Clog Percentages	MONITOR
Fan Faults	MONITOR	Fire Condition	MONITOR
Fan Status	MONITOR	CORE Fire System	MONITOR
PCU Faults	MONITOR	Building Pressures	MONITOR
PCU Filter Clog Percentages	MONITOR	Fans Button(s)	MONITOR & CONTR
Fire Condition	MONITOR	Lights Button(s)	MONITOR & CONTR
CORE Fire System	MONITOR	Wash Button	MONITOR & CONTR
Building Pressures	MONITOR		I.
Prep Time Button	MONITOR & CONTROL		
Fans Button	MONITOR & CONTROL		
Lights Button	MONITOR & CONTROL		

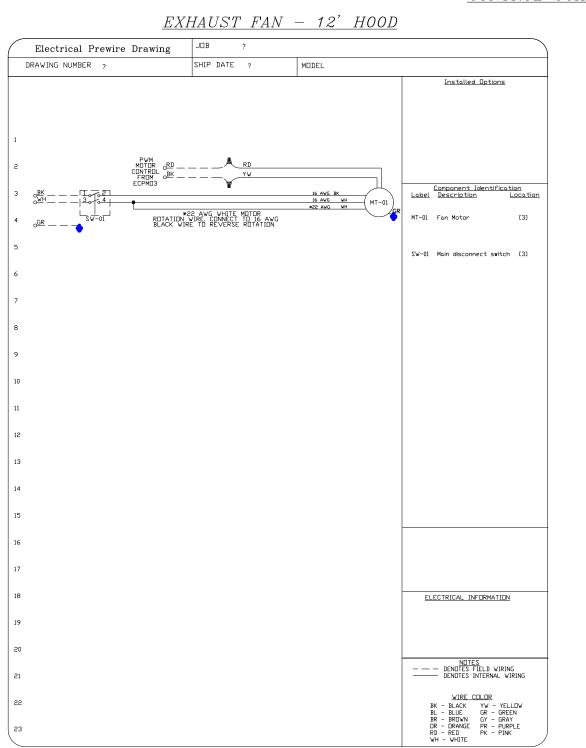
MONITOR & CONTROL

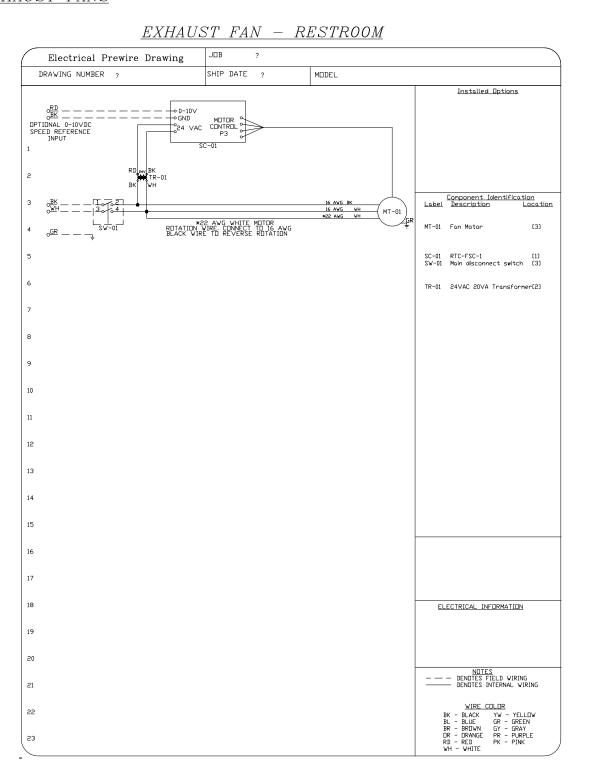
OB NO J□BNUM	MODEL NUMBER MODELNO		DRAWN BY CAS	SCHEMATIC TYPE INSTALL	DESCRIPTION 120V 1 Phose W/ c	ON OF OPERATION:	xhaust on in Fire, Lights out in Fire, R n temperature sensor shipped loose for	elay On/Off with Supply F
אוטאומטכ	JOB NAME JOBNAME		DATE DATE	DWG NO	Fan(s) On/Off The	rmostatically Controlled. Room	n temperature sensor shipped loose fo	field installation.
			Ditt is		1			
BREAKER PANEL TO PRIMARY	CONTROL PANEL		FEED STP THROUGH IN COOLING TUBE. ALLOW ENDUGH SLACK ON STR	INER RD TI	C MOTOR	_{T1} -		<u> </u>
Responsibility: Elec	trician	ROADIST PWM SPEED SIGNAL	PROPER HINGING (EXH	ALIST THE YN TELC	O MOTOR	CONTROL PANEL T2	Neutral Scround	EXTERNAL TAG1
BREAKER SIZE SHOWN IS THE			NDTE: PWM SIGNAL IS SENSITIVE.	POLARITY ZIEHL	_ MOTOR	CIRCUIT OGNIO-	Hot_	
BREAKER PANEL	PRIMARY CONTROL PANEL	PANEL TO P#AO-	SHIELDED TWISTED PAIR	RED(+)	- = -	^{22:30} FIRE T4 -	Neutral	—EXTERNAL TAG2
BREAKER 1PH	— — HOT — — — — — — — — — — — — — — — — — — —	ECM (P#BO-	BLACK(-)	BLACK(->		AC-X GND	SPARE CONTACT ON/OFF WITH	T
120 V 15 A CONTROL POWER. DO TO GFCI OR SHUNT TR	Consumed	5			FAN:		FIRE. WIRE DIRECT TO CONTACTOR	
I BREAKER.			,				THE EDITIONING CONNECTIONS	
1ST HOOD LIGHT BREAKER SHAR CONTROL POWER, SWITCH #1	ED W/	· CONTROL (NAMEL TO ACCE	CODY ITEM	6		THE FOLLOWING CONNECTIONS MAY OR MAY NOT BE REQUIRED BASED ON JOBSITE	
	Hot		PANEL TO ACCE: ponsibility: Elect		2		SPECIFICATIONS	
15 V	Ground CNITO VILTI V	MP CONTROL PANEL	ponsion by Exect		PONENT	CONTROL PANELOSTO	HOT TO SHUNT COIL	SHUNT COIL
TAG1	Anperage2: A	MP 12		MICROS	SWITCH 1	SIGNAL FOR ONIO	NEUTRAL FROM SHUNT COIL_ ST TERMINAL IS ENERGIZED	
BREAKER 1PH	Hot	CONTROL PANEL			A:NO RAP	SHUNT TRIP	IN FIRE CONDITION.	
TAG2 AC-X	Ground	TO OCIO-			SINC			. '
WIRE directly to Equipmen		MICROSWITCH CHICAGO	WIRE C1 TO COMMON (1). WIRE AR1 TO NORMALLY					
5			C1 TO AR1 SHOULD HAVE CONTINUITY WHEN ARMED	MS-1	O4:NO PEP			
		IF MORE THAN ONE						1
BREAKER PANEL T	□ FANS	IF MORE THAN ONE FIRE SYSTEM, WIRE IN SERIES AS SHOWN		1:C	2:NC 02:NC	CONTROL PANEL CO CO CO CONTROL PANEL PANEL CO CO CO CONTROL PANEL CO		
Responsibility: Elec	trician	DARIO-				SYSTEM DRY	SPARE CONTACTS WILL MAKE C2 TO AR2 WHEN SYSTEM IS ARMED, THEY	
REAKER PANEL	FANS					CONTACT	NORMALLY DEN SPARE CONTACTS WILL MAKE C2 TO AR2 WHEN SYSTEM IS ARMED, THEY ARE USED TO DISABLE COUJPMENT OR PROVIDE SIGNALS. (NOT FOR BUILDING FIRE ALARM WHICH MUST BE WIRED DIRECTLY TO THE ANSUL ALARM INITIATING SWITCH LOCATED IN ANSUL AUTOMAN)	
BREAKER 1PH	HDT 	CONTROL PANEL J4	ALL SWITCHES FACTORY CAT-5 CONNECTION	WIRED	$+\Box$		BE WIRED DIRECTLY TO THE ANSUL ALARM INITIATING SWITCH LOCATED	
V	ECM FANS	SWITCHES	om o obmestible				IN ANSUL AUTUMAN)	
MUCP: A CAS1				HUUD	LIGHTS 1	CONTROL PANEL OSFCIO DRY CONTACT OSFOIO		
	нот	CONTROL PANELO BIO-		BLACK_		PONTOCC VALUE	CENTER	
BREAKER 1PH	NEUTRAL POWER TO	TO <u>OWIO</u> - "HOOD LIGHTS <u>OGNDO</u> -		WHITE GREEN	<u>~ </u>	SUPPLY FAN OSFIZO- GROUP 1	NORMALLY OPEN	
V	Ground ECM FANS	1400 W MAX	WIRE TO J-BOX ON TOP	OF HOOD			SPARE CONTACTS WILL MAKE COMMON TO NORMALLY OPEN WHEN SUPPLY FAN IS ON.	
MUCP: A CHSI		CDMM		ROUT	ER			
5		CONTROL PANEL	CAT-5 ETHERNET CONNE			CONTROL PANEL OSFC50 DRY CONTACT OSFU50		
		WORLD WIDE	WIRE DIRECTLY TO COMM MODULE. NET REQUIRES 1			PONZOCE VITU	COMMON	
CONTROL PANEL T	Π FANS	WEB	UDP PORT 1444 & 1445	OPEN FOR		ANY SUPPLY OSFO	NEDWALL V. DDEN	
Responsibility: Elec			DUTBOUND TRAFFIC ONLY	.		— MIN	SPARE CONTACTS WILL MAKE COMMON TO NORMALLY OPEN WHEN SUPPLY FAN IS ON.	
PRIMARY PANEL	FANS	CONTROL PANEL TIAO-	ļ		-			BMS SWITCH
FEED STP THROUGH	INNER RD TO RD	TO TIBO	WIRE TO CONTROL BOAR! SENSOR IN ROOM AWAY F	D. INSTALL + POR	 DM_TEMP	CONTROL PANELO HIO	+	
FEED STP THROUGH COOLING TUBE. ALLO ENDUGH SLACK ON S SPEED SIGNAL PROPER HINGING. (E)	DVICE UNI AN IEFED MULIUKI	TENT SENSOR	SOURCES. DO NOT INSTAL	L SENSOR		TO OIO10	SIGNAL SWITCH THROUGH BMS WILL ACTIVATE ZONE1 FANS AND	T
NDTE: PWM SIGNAL I SENSITIVE.	S POLARITY BK TO YW ZIEHL MOTOR	l ===	ON THE CEILING GRID, S		,	SWITCH	LIGHTS	
CONTROL OUTDOOR RATED PAIR	BK TO BK	CONTROL PANEL T2AO-	WIRE TO CONTROL BOAR					
ECM OP#BO BLACK(-)		CAPTURE VOLUME SENSOR	SENSOR MOUNTED IN HOD VOLUME.		UNK	CONTROL PANEL OFFCIO		<u> </u>
	FAN:	2FIN2FIK	VULUME.			DRY CONTACT OFFICE	NORMALLY OPEN	
I.	1 1	CONTROL PANEL TZAO		+	// /	*DN/DFF WITH OFFCOO EXHAUST FAN OFFDOO GROUP 1	NORMALLY OPEN	+-
		TO T2BO-	WIRE TO CONTROL BOAR! SENSOR MOUNTED IN HOD	D. CAPTURE	UNK UNK	GROUP 1	NORMALLY OPEN SPARE CONTACTS WILL MAKE COMMON TO NORMALLY OPEN WHEN EXHAUST FAN IS ON.	T
		SENSOR	VOLUME.	D ORI TOKE			WHEN EXHAUST FAN IS DN.	
		l	1			اح	1	

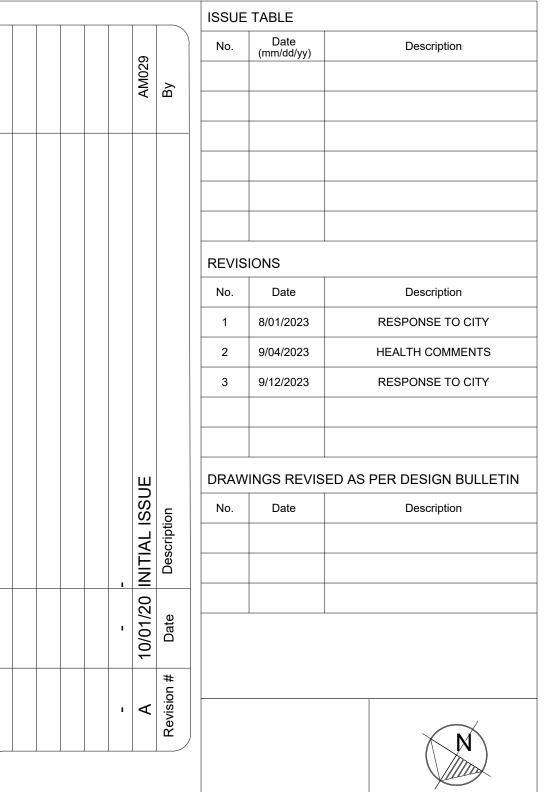
A B C D E	F G H I	FACTORY WIRING
UNLESS SPECIFIED OTHERWISE, ALL FACTORY AC VIRING 16 AWG. ALL FACTORY DC WIRING 18 AVG. 1 J9 120V NI WH MASSO 120V H1=LINE, BIB		SCHEMATIC CIRCUIT BOARDS DCV Rev. 2.12.00
NI O BK MASS 120V H1=LINE, BB		HMI Rev. 2.12.00
(AS) BK (BASO — NI=NEUTRAL, 15A = 24V (89001)(2(3(4)	WIRED BK Wired to ANT BROWN Asset CORE ANT BROWN ASSET CORE	RA-x 120 VAC 24 VDC RELAY RELAY
KTS 4 NOT CONNECT 3 NOT CONNEC	WIRED AND SCADA SCADA WIRED BR Wired to RD Master CORE (ff applicable) USBD USe shielded wire	NO 4 3 NC 2 1 COIL 8 7 COM 6 5 COM 6 5
PCU O INSTALLATION @NO.Ac V	DEST CAT-5	COMPONENT LIST
PANEL LIDIH GR. CORSO — RIDITIONAL REG. A A A G. S.	DEST TO ETH	LABEL DESCRIPTION LABEL DESCRIPTION
3		LABEL DESCRIPTION LABEL DESCRIPTION
		LABEL DESCRIPTION LABEL DESCRIPTION
		LABEL DESCRIPTION
4		
J7 120V		
BK 14AWG RND-X BK 14ST	N/A N/A 83.4% 83.4%	
		LABEL DESCRIPTION
		L. DESCRIPTION
	日 (LABEL DESCRIPTION
6 DC+DBL QRD-X Q PR RD1		
DESID_BK OCT-XXIO AH DESID_BK	T	
		LEGEND — FIELD WIRING — FACTORY WIRING
7 MOUNT IN ECP DOOR. 120V AUDIBLE, ALARM DESTER OF TWO WH		BK- BLACK YW- YELLDW BL- BLUE GY- GREY BR- BRDWN PR- PURPLE DR- DRANGE RD- RED
DESTD BY SUNC A BY WHOTE STATE OF THE STATE	DRY CONTACTS (SHOWN DE-ENERGIZED) 14 AWG RA-X-X	DR/BL - DR/BL STRIPE BL/RD- BL/RD STRIPE
ACTIVATES IN FIRE MAKE UP AIR INTERLIOK. JUMPER UP AIR TO THE TO	——DNIGNOS WITH FIRE ——O C C C YW	RD/GN- RD/GN STRIPE WH/BL- WH/BL STRIPE
B B B B B B B B B B B B B B B B B B B	14 AWG RA-X-X 14 AWG RA-X-X	DRAWING TITLE
	14 AWG RA-X-X 14 AWG RA-X-X	DESCRIPTION OF OPERATION 120V 1 Phase w/ control
		for 2 Exhaust Fans, Exhaust on in Fire, Lights out in Fire, Relay Dn/Off with Supply Fan, Fan(s) Dn/Off Thermostatically
9	0N/OFF WITH — 012 NO°] EXH — 012 C YW	Thermostatically Controlled. Room temperature sensor shipped loose for field
	14 AWG RA-X-X	installation.
	= - <u>5123</u> vo* v	
10		JOB NO DRAWN BY AUTO TYPE DATE FACTORY
	DEFAULT BOX SIZE	DWG NO .

CONTROL SCHEMATIC - EXHAUST FANS





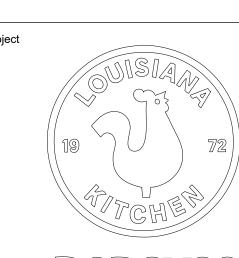






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PROJECT NORTH

9.13.2023

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41082

CIVIL PENALTIES.

Company Logo

Store Type US 2112 PROTOTYPE 2112-21

> 1517 NC 24-87 CAMERON, NC

Drawing Title

Revision

Location

Country

MECHANICAL HOOD DRAWINGS Checked AH

M2.1

JUNE 2023 1/4" = 1'-0" Project No. Drawing No. C22-129

6 CONTROL SCHEMATIC SCALE: NO SCALE

MOTOR POWER CIRCUITS SEE INSTALLATION DIAGRAM FOR FIELD WIRING REQUIREMENTS.

| CONTINENT | CONT

APPLIANCE CONTACTOR CIRCUITS. SEE INSTALLATION DIAGRAM FOR FIELD WIRING REQUIREMENTS.

Franke Foodservice Systems 800 Aviation Parkway Smyrma, TN USA 37167

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POPEYES PLK 2112 WALL MOUNTED
INSTALLATION DETAIL

Site ID Operator -Site Address

City - -State Zip Code Region

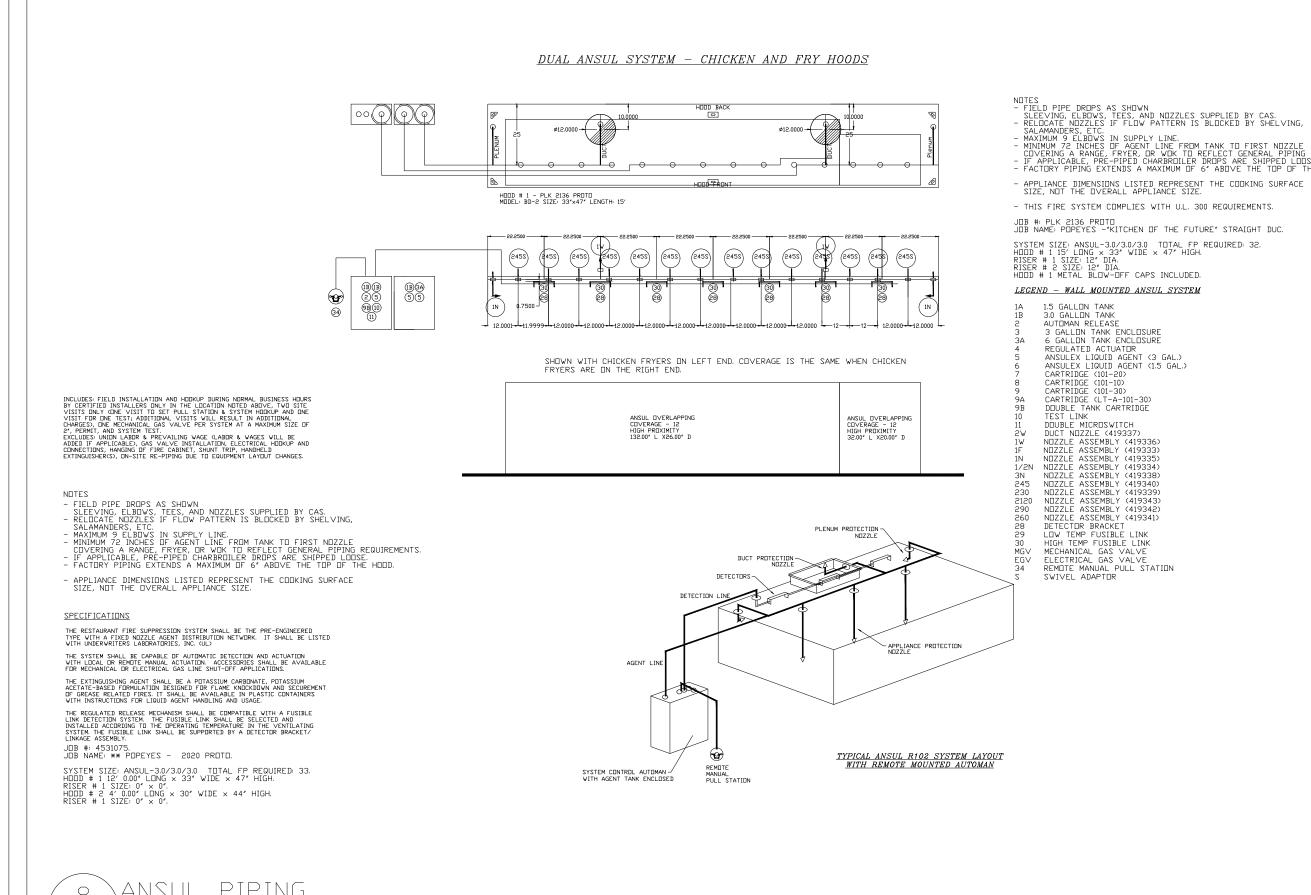
Building Type Electrical Service

Gas Service Market Manager

Franke Project Number Created by: HP033

Date Issued 10/01/20 Modified By: AM029 Drawing Scale AS NOTED Units INCHES Drawing Number

Sheet Name 3 OF 4



<u>UL LISTED NON-WELDED DUCT WORK</u>

	1RTS - J0B#2136						
TAG	PART #	CFM	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION
P1	DW1235DWLT-2R-S	1245	-0.0151	40.86	1585.18	1	DOUBLE WALL DUCT — 12" INNER DUCT, 35" LONG — 2 LAYERS REDUCED CLEARANCE — 16" STAINLESS STEEL OUTER SHELL.
P2	DW1247DWAJD-2R-S	1245	-0.0119	83.19	1585.18	1	DOUBLE WALL ADJUSTABLE DUCT $-$ 12" INNER DUCT $-$ 2 LAYERS REDUCED CLEARANCE $-$ 16" STAINLESS STEEL OUTER SHELL. MIN LENGTH $=$ 11" / MAX LENGTH $=$ 48.5" / ADJUSTMENT $=$ 30.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
P3 ASSEMBLED W/P4	DW124550DWLTTP-2R-S	1245	-0.02	53.52	1585.18	1	DOUBLE WALL DUCT — 12" INNER DUCT, 45.5" LONG — 2 LAYERS REDUCED CLEARANCE — 16" STAINLESS STEEL OUTER SHELL — USED WITH TRANSITION PLATE.
P4 ASSEMBLED W/P3	DW1912TPDBEX	1245		7.50	1585.18	1	DUCT TO CURB TRANSITION 3/4" DOWN TURN, 19-1/2" CURB TO 12" DUCT, 16 GA ALUMINIZED STEEL. FOR USE WITH EXHAUST FANS.
SYSTEM AT P4			-0.799	0.00			
P5	DW1235DWLT-2R-S	1245	-0.0151	40.86	1585.18	1	DOUBLE WALL DUCT — 12" INNER DUCT, 35" LONG — 2 LAYERS REDUCED CLEARANCE — 16" STAINLESS STEEL OUTER SHELL.
P6	DW1247DWAJD-2R-S	1245	-0.0119	83.19	1585.18	1	DOUBLE WALL ADJUSTABLE DUCT $-$ 12" INNER DUCT $-$ 2 LAYERS REDUCED CLEARANCE $-$ 16" STAINLESS STEEL OUTER SHELL. MIN LENGTH $=$ 11" / MAX LENGTH $=$ 48.5" / ADJUSTMENT $=$ 30.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
P7 ASSEMBLED W/P8	DW124550DWLTTP-2R-S	1245	-0.02	53.52	1585.18	1	DOUBLE WALL DUCT — 12" INNER DUCT, 45.5" LONG — 2 LAYERS REDUCED CLEARANCE — 16" STAINLESS STEEL OUTER SHELL — USED WITH TRANSITION PLATE.
P8 ASSEMBLED W/P7	DW1912TPDBEX	1245		7.50	1585.18	1	DUCT TO CURB TRANSITION 3/4" DOWN TURN, 19-1/2" CURB TO 12" DUCT, 16 GA ALUMINIZED STEEL. FOR USE WITH EXHAUST FANS.
SYSTEM AT P8			-0.799	0.00			
	3M-2000PLUS			0.80		1	DUCT - 3M FIRE BARRIER 2000 PLUS SILICONE - USED AS SEALANT TO SEAL DUCT JOINTS.
TOTAL WEIGHT				370.94			

Intertek

DOUBLE WALL FACTORY BUILT DUCTWORK

- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE ENTIRE INSTALLATION AND OPERATION MANUAL
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16' PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR. - WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16° PER LINEAR FOOT.

DUCT DIAMETER	HORIZONTAL SUPPORT (FT)	VERTICAL WALL SUPP□RT (FT)	VERTICAL Curb Support (ft)
12*	10'	10'	24'

CONFORMS TO UL STD 2221 AND UL STD 1978 CERTIFIED TO CAN/UL-S115, CAN/ULC-S662 AND ASTM E814

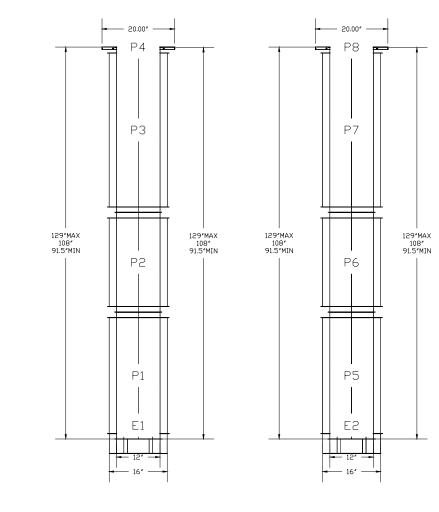
Double Wall Duct - 10" Inner Duct, 2 Layers Reduced Clearance -14" Stainless Steel 🛮 uter Shell

- This duct has been evaluated for use as a 2 hour fire rated grease duct system. It is classified as an alternative to 2 hour
- fire resistive rated shaft enclosure systems. - For grease duct systems installed without a continuous fire-rated enclosure, an evaluated through-penetrated fire stop
- assembly shall be used. Complies all applicable requirements of the referenced standards as required by the National Building Code of Canada (NBCC). International Mechanical Code (IMC) or NFPA96, and

when installed in accordance with the manufacturers's

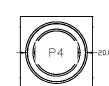
recommended installation instructions.

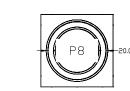
– This duct may be installed with 3_4 dinch clearance from the outer surface of the duct to combustible materials. The outer v-band may be installed in contact with combustible materials.



DUCTWORK #1 FRONT VIEW

DOUBLE WALL DUCT





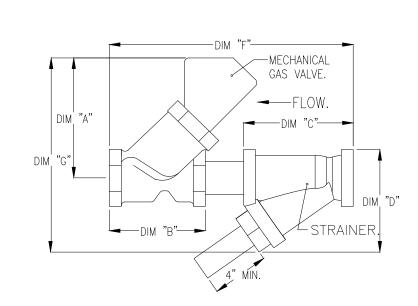
DO NOT LEAK TEST USING SMOKE BOMBS CONTAINING CHLORINES/CHLORIDES.

7 UL LISTED NON-WELDED DUCT WORK

ANSUL FIRE SYSTEM EQUIPMENT SCHEDULE

FIRE .	SYSTI	EM INFORMATIO	ON - JO	B PLK 2136 PROTO					
FIRE					FLOW	INSTALLATION			
SYSTEM ND	TAG	TYPE		SIZE	POINTS	SYSTEM	LOCATION ON HOOD		
1		ANSUL R102		3.0/3.0/3.0	32	WALL MOUNT LEFT	N/A		
GAS V	ALVE	(S)							
FIRE SYSTEI NO	M TAC	TYPE	SIZE	SUPPLIED BY					
1	1 MECHANICAL 1.500 FRANKE FOODSERVICE								

FIRE SYSTEM NO	TAG	KEY NUMBER - PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST		
NLI		│ ○ - ○ - 439861 LARGE BLOWOFF CAP, METAL, TO FIT NEW LASER-ETCHED ANSUL NOZZLES, A0024201.	18	0		
		1 - 1 - AT - 3.0 TANK(#1B) - 3.0 GALLON SS TANK (FOR USE WITH AUTOMAN RELEASE, ACTUATOR, DR SS ENCLOSURE (UL/ULC)) MACOLA # 01-429862.	3	0		
		2 - 2 - AP - AR AUTOMAN RELEASE - ANSUL AUTOMAN MECHANICAL RELEASE (UL), TANK SOLD SEPARATELY, ANSUL PART # 429853; MACOLA # 01-429853.	1	0		
		3 - 3 - AP - ADE ENCLOSURE (DOUBLE) - DOUBLE STAINLESS STEEL ENCLOSURE (UL), ANSUL PART # 429872; MACOLA # 03-429872.	1	0		
		3 - 3 - AP - AE ENCLOSURE - STAINLESS STEEL ENCLOSURE ASSEMBLY (UL), ANSUL PART # 429870; MACOLA # 01-429870.	0	0		
		5 - 5 - LIQ-3.0 AGENT - ANSULEX LOW PH WET CHEMICAL AGENT, 3 GALLON (UL) 79372.	3	0		
		9 - 9 - DT-CART DOUBLE TANK NITROGEN CARTRIDGE.				
		10 - 10 - TLINK LINK - TEST LINK (1 TEST LINK) ANSUL PART # 24916, MACDLA # 20-24916.				
		11 - 11 - MICRO-SDA MICROSWITCH KIT- INCLUDES 2 SWITCHES AND MOUNTING HARDWARE. SINGLE DUAL ELECTRIC SWITCH, ONE STANDARD SWITCH, ONE ALARM DUTY SWITCH ANSUL PART # 437155, MACOLA # 08-437155.	1	0		
		14 - 14 - 419336 NDZZLE - 1W NDZZLE, DUCT/APPLIANCE (REPLACES ANSUL PART# 419347, CAS PART# 419336) A0001266.	2	0		
1		16 - 16 - 419335 NDZZLE - 1N NDZZLE, PLENUM/APPLIANCE (REPLACES ANSUL PART# 419346, CAS PART# 419335) A0001265.	2	0		
		20 - 20 - 419340 NOZZLE - 245 NOZZLE, APPLIANCE (REPLACES ANSUL PART# 419351, PART# 419340) A0001270.	14	0		
		25 - 25 - 418569 NDZZLE ADAPTOR - SWIVEL NDZZLE ADAPTOR (REPLACES CAS PART # 418569) A0001274.	14	0		
		26 - 26 - QSA-3/8 QUIK SEAL - 3/8" (UL).	18	0		
		27 - 27 - QPSA-1/2 PULLEY SEAL - 1/2" HODD SEAL (UL) ANSUL PART # 423253, MACDLA # 32-79768.	1	0		
		28 - 28 - S-DET DETECTOR - SERIES (SCISSOR LINKAGE) ANSUL PART # 435547/435548 (OLD # 417369/434480); MACOLA # 05-417369.	7	0		
		30 - 30 - ANS-500FL FUSIBLE LINK - 500DEG F, R-102 AND PIRANHA, ANSUL PART # 439232.	7	0		
		34 - 34 - RPS-A REMOTE PULL STATION - RED COMPOSITE (WITHOUT WIRE ROPE) 434618 (OLD MACOLA #06-4835).	1	0		
		35 - 35 - PE-LT PULLEY ELBOW - LOW TEMP. PULLEY ELBOW, SET SCREW TYPE ANSUL PART # 415670, MACOLA # 11-415671.	0	10		
		36 - 36 - PE-HT PULLEY ELBOW - HIGH TEMP PULLEY ELBOW, COMPRESSION TYPE, ANSUL PART # 423251, MACOLA # 10-45771.	1	0		



										STRAIN	IERS						
		GAS VALVE SIZING						GAS VALVE DIMENSIONS						INSTALLATION	I	PART NUMBERS	
	TYPE	SIZE	VOLTAGE	MIN. INLET PRESSURE	MAX. INLET PRESSURE	FLOW AT 1 IN.W.C. DROP NATURAL GAS	FLOW AT 1 IN.W.C. DROP PROPANE	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "F"	DIM "G"	MOUNTING ORIENTATION	GAS VALVE PART NUMBER	STRAINER PART NUMBER	GAS VALVE/STRAINER KIT
GAS VALVE FOR FS#1→	MECHANICAL	1-1/2"		0 PSI (0 IN.W.C.)	10 PSI (277 IN.W.C.)	2,630,000 BTU/HR	1,706,569 BTU/HR	6-3/8"	4-7/8"	5-3/4"	6-3/16"	12-5/8"	11-3/8"	HORIZONTAL	27-55607	4417K67	MGVA1-1/2

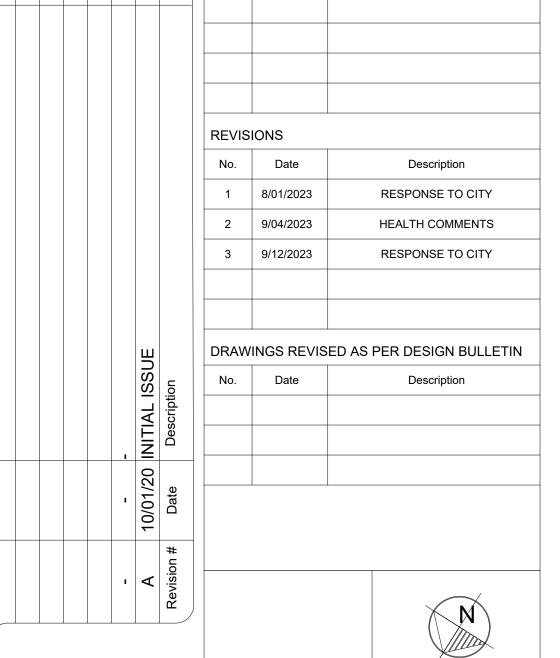
PROPER CLEARANCE MUST BE PROVIDED IN ORDER TO SERVICE THE STRAINERS A MINIMUM OF 4" CLEARANCE DISTANCE MUST BE PROVIDED AT THE BASE OF THE STRAINER CUSTOMER MUST VERIFY BTU CONSUMPTION AS WELL AS PRESSURE RATING SPECIFIC GRAVITY OF NATURAL GAS = 0.64, SPECIFIC GRAVITY OF LP = 1.52.

TO CALCULATE GAS FLOW FOR OTHER THAN 1 IN.W.C. PRESSURE DROP NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP) X NEW PRESSURE DROP.

TO CALCULATE GAS FLOW FOR OTHER THAN 1 IN.W.C. PRESSURE DROP NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP) X NEW PRESSURE DROP.

TO CALCULATE GAS FLOW FOR OTHER THAN 1 IN.W.C. PRESSURE DROP NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP) X NEW PRESSURE DROP NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP NEW BTU/HR = (BTU/HR AT

9 ANSUL FIRE SYSTEM EQUIPMENT SCHEDULE 4 SCALE: NO SCALE



CIVIL PENALTIES.

Company Logo

ISSUE TABLE

Description

41082

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POPEYES LOUISIANA KITCHEN AS "ISSUED FOR CONSTRUCTION".

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PROJECT NORTH

9.13.2023

Franke Foodservice Systems Americas, Inc. 800 Aviation Parkway

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POPEYES PLK 2112 WALL MOUNTED **INSTALLATION DETAIL** Site ID

Operator -Site Address

- -State Zip Code Country Region

Building Type

Electrical Service Gas Service

Market Manager Franke Project Number

Created by: HP033 10/01/20 Modified By: AM029 Drawing Scale

AS NOTED INCHES Drawing Number

Sheet Name 4 OF 4



ARCHITECTURE • CIVIL ENGINEERING • MEP ENGINEERING 10755 SANDHILL ROAD, DALLAS, TEXAS 75238 TEL: 214-343-9400 <u>www.dimensiongrp.com</u>

Store Type US 2112 PROTOTYPE

1517 NC 24-87

2112-21

CAMERON, NC

Drawing Title

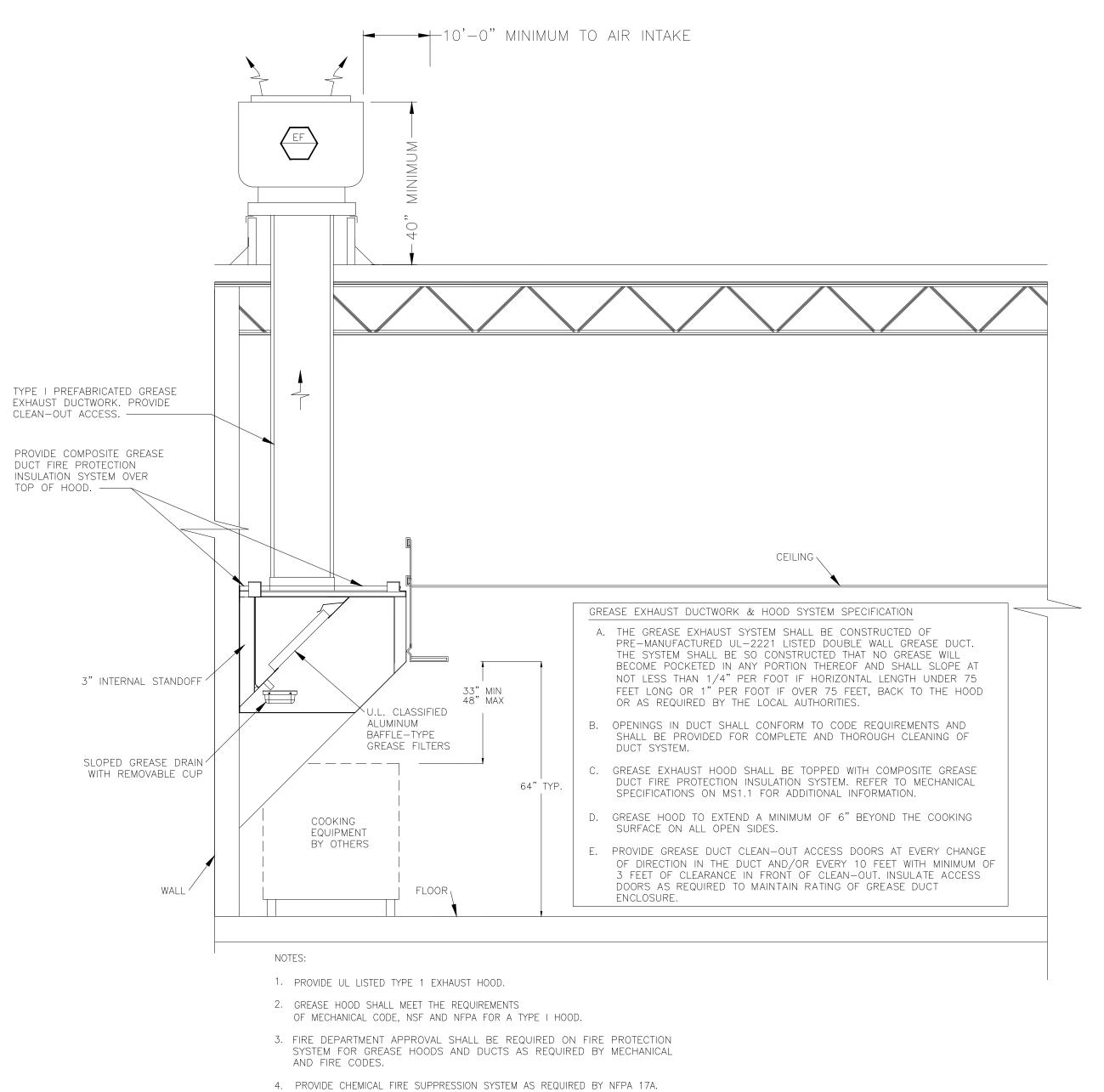
Location

Revision

1/4" = 1'-0" Project No. Drawing No. C22-129 M3.4

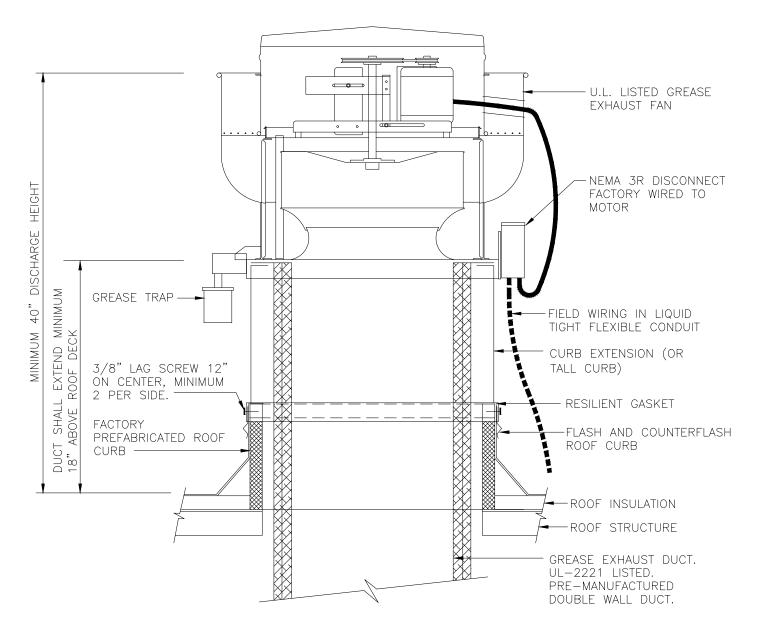
MECHANICAL HOOD DRAWINGS Checked

 AH JUNE 2023



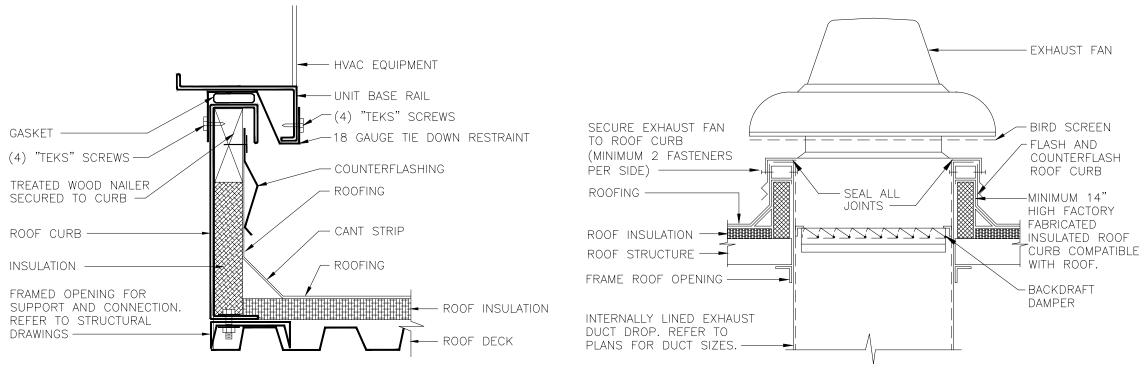
5. PERFORM SMOKE TEST ON GREASE EXHAUST DUCTWORK AFTER DUCTWORK INSTALLATION IS COMPLETE BUT PRIOR TO DUCTWORK

CONCEALMENT PER REQUIREMENTS OF LOCAL CODE AUTHORITIES.



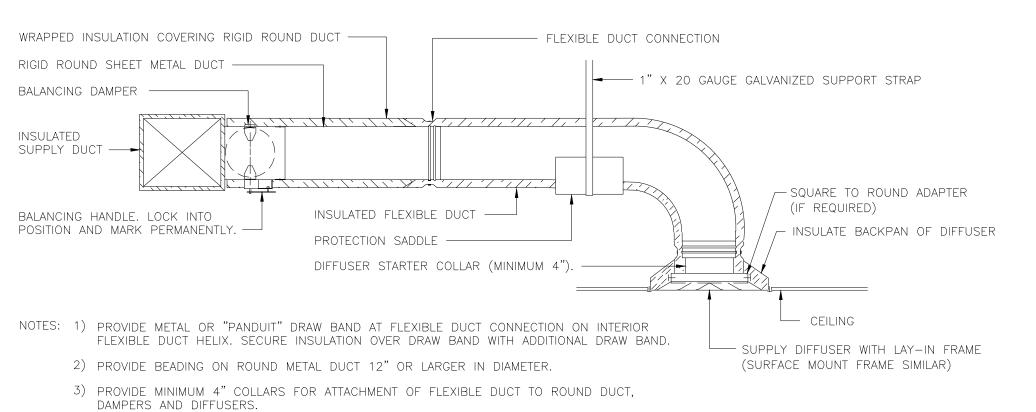
NOTE: INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 96 REQUIREMENTS.

1 ROOF MOUNTED GREASE EXHAUST FAN DETAIL NOT TO SCALE



3 ROOFTOP UNIT CURB DETAIL NOT TO SCALE





0 4 DIFFUSER CONNECTION DETAIL
NOT TO SCALE

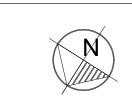
OVERLAP.

4) BAND RIGID ROUND DUCT INSULATION TO DUCT AND PROVIDE TAPE FOR INSULATION

ISSUE	TABLE	
No.	Date (mm/dd/yy)	Description
REVIS	SIONS	

No.	Date	Description
1	8/01/2023	RESPONSE TO CITY
2	9/04/2023	HEALTH COMMENTS
3	9/12/2023	RESPONSE TO CITY

DRAWINGS REVISED AS PER DESIGN BULLETIN								
No.	Date	Description						



PROJECT NORTH

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9.13.2023

Company Logo





Store Type

4547 NO 04 0

1517 NC 24-87 CAMERON, NC

US 2112 PROTOTYPE

2112-21

Drawing little

MECHANICAL DETAILS

Drawn	Checked		
NI	AH		
Scale	Date		
1/4" = 1'-0"	JUNE 2023		
Project No.	Drawing No.		
C22-129	M4.1		

HVAC SEQUENCE OF OPERATIONS

PROVIDE ALL NECESSARY SENSORS, DAMPER ACTUATORS, CONTROL TRANSFORMERS WITH SECONDARY OVERLOAD PROTECTION, WIRING AND CONDUIT TO ACCOMPLISH FOLLOWING SEQUENCE OF OPERATION:

ROOFTOP UNIT:

THERMOSTATS SHALL BE SET TO DETERMINE OCCUPIED AND UNOCCUPIED HOURS OF OPERATION. HOURS SHALL BE COORDINATED WITH OWNER. ROOFTOP UNITS SHALL BE INTERLOCKED WITH KITCHEN EXHAUST FANS TO PROVIDE MAKE-UP AIR FOR HOODS.

OCCUPIED MODE:

SUPPLY FAN SHALL RUN CONTINUOUSLY AND OUTSIDE AIR DAMPER SHALL OPEN TO MINIMUM POSITION TO DELIVER SCHEDULED QUANTITY OF VENTUATION AIR

SUPPLY FAN SPEED SHALL VARY AIRFLOW AS A FUNCTION OF LOAD. DURING NON—COOLING, FIRST STAGE COOLING, AND NON—HEATING TIMES, SUPPLY FAN SHALL RUN AT MINIMUM SPEED. DURING SECOND STAGE COOLING AND HEATING TIMES, SUPPLY FAN SHALL RUN AT FULL SPEED. OUTSIDE AIR DAMPER SHALL MODULATE POSITION TO MAINTAIN REQUIRED QUANTITY OF OUTSIDE AIR AS SUPPLY FAN VARIES SPEED.

COOLING:

WHEN SPACE TEMPERATURE RISES ABOVE OCCUPIED COOLING SET
POINT, PACKAGED DIRECT EXPANSION COOLING SHALL BE ENERGIZED
AND STAGE AS REQUIRED TO MAINTAIN SPACE TEMPERATURE.

ECONOMIZER:

WHEN OUTDOOR AIR TEMPERATURE IS BELOW 65°F (ADJUSTABLE), ECONOMIZER SHALL MODULATE BETWEEN ITS MINIMUM SET POINT AND FULL OPEN TO MAINTAIN SPACE COOLING SET POINT, SUBJECT TO A MIXED AIR TEMPERATURE LOW LIMIT CONTROLLER SET POINT OF 55°F. OUTDOOR TEMPERATURE IS ABOVE COMPRESSOR LOCKOUT THERMOSTAT SETTING, MECHANICAL COOLING SHALL BE ENABLED AS SECOND STAGE OF COOLING.

DEHUMIDIFICATION (WHERE APPLICABLE):

WHEN SPACE HUMIDITY READING EXCEEDS 55%RH (ADJUSTABLE), REFRIGERATION SYSTEM SHALL OPERATE AND INITIATE HOT GAS REHEAT AS REQUIRED TO MAINTAIN SPACE HUMIDITY.

<u>HEATING:</u>

WHEN SPACE TEMPERATURE FALLS BELOW OCCUPIED HEATING SET POINT, GAS HEATER SHALL BE ENERGIZED IN STAGES (WHERE APPLICABLE) TO MAINTAIN SPACE TEMPERATURE.

UNOCCUPIED MODE:

COOLING:

UPON SIGNAL FROM THERMOSTAT, SUPPLY FAN SHALL BE DEENERGIZED AND OUTSIDE AIR DAMPER SHALL CLOSE. IF SPACE TEMPERATURE RISES 2 DEGREES OR MORE ABOVE UNOCCUPIED SET POINT, OUTSIDE AIR DAMPER SHALL REMAIN CLOSED, SUPPLY FAN SHALL BE ACTIVATED AND DX COOLING SHALL BE STAGED AS REQUIRED TO MAINTAIN UNOCCUPIED SPACE TEMPERATURE. WHEN TEMPERATURE FALLS 2 DEGREES BELOW SET POINT, COMPRESSOR SHALL BE DE-ENERGIZED AND SUPPLY FAN SHALL SHUT OFF.

<u>HEATING:</u>

UPON A SIGNAL FROM THERMOSTAT, SUPPLY FAN SHALL BE DE-ENERGIZED AND OUTSIDE AIR DAMPER SHALL CLOSE. IF SPACE TEMPERATURE FALLS 2 DEGREES OR MORE BELOW SET POINT, OUTSIDE AIR DAMPER SHALL REMAIN CLOSED, SUPPLY FAN SHALL BE ACTIVATED AND GAS HEAT SHALL BE ENERGIZED UNTIL UNOCCUPIED SPACE TEMPERATURE IS SATISFIED. WHEN TEMPERATURE RISES 2 DEGREES ABOVE SET POINT, GAS HEAT SHALL BE DISABLED AND SUPPLY FAN SHALL BE DE-ENERGIZED.

MORNING WARM-UP/COOL DOWN:

CONTROLS SHALL BE CAPABLE OF AUTOMATICALLY ADJUSTING DAILY START TIME OF UNIT IN ORDER TO BRING EACH SPACE TO DESIRED OCCUPIED TEMPERATURE IMMEDIATELY PRIOR TO SCHEDULED

OCCUPIED COOLING SET POINT 75 DEGREES
OCCUPIED HEATING SET POINT: 70 DEGREES
UNOCCUPIED COOLING SET POINT: 85 DEGREES
UNOCCUPIED HEATING SET POINT: 55 DEGREES

A SMOKE DETECTOR SHALL DE-ENERGIZE ROOFTOP UNIT SUPPLY FAN AND CLOSE OUTSIDE AIR DAMPER IN BOTH OCCUPIED AND UNOCCUPIED MODES WHENEVER SMOKE IS SENSED BY SMOKE DETECTORS.

MECHANICAL SPECIFICATIONS

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

DEFINITIONS: <u>FURNISH</u> MEANS TO SUPPLY AND DELIVER TO PROJECT SITE, READY FOR INSTALLATION. <u>INSTALL</u> MEANS TO PLACE IN POSITION AND MAKE CONNECTIONS FOR SERVICE OR USE. <u>PROVIDE</u> 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 COMPLETED PROJECT. PROVIDE SEPARATE LINE ITEM DEDUCT AMOUNT ON THE PROPOSAL FORM TO DELETE WARRANTY SERVICE, AT OWNER'S OPTION.

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

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

SHEET METAL DUCTWORK: PROVIDE SHEET METAL DUCTWORK FABRICATED AND INSTALLED IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS, FOR 1" W.G. PRESSURE CLASS, SEAL CLASS "A". SHEET METAL SHALL BE GALVANIZED SHEET STEEL OF LOCK FORMING QUALITY, WITH G90 ZINC COATING. SHEET STEEL SHALL COMPLY WITH ASTM A653 STANDARD SPECIFICATION FOR STEEL SHEET METAL, ZINC COATED (GALVANIZED) OR ZINC—IRON ALLOY—COATED (GALVANNEALED) BY HOT DIP PROCESS, AND A924 STANDARD SPECIFICATION FOR GENERAL REQUIREMENTS FOR SHEET, METALLIC—COATED BY 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.

REFRIGERANT PIPING: TYPE ACR HARD DRAWN COPPER TUBING MEETING THE REQUIREMENTS OF ASTM B280, WITH WROUGHT COPPER FITTINGS MEETING REQUIREMENTS OF ANSI B16.22, WITH BRAZED JOINTS MEETING REQUIREMENTS OF AWS A 5.8, USING BAG-1 (SILVER) FILLER MATERIAL. INSULATE SUCTION LINE PIPING WITH 1" THICK ARMAFLEX TYPE AP. PAINT INSULATION LOCATED OUTDOORS WITH ARMAFLEX WB FINISH.

ROUND SHEET METAL 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 SHEET METAL DUCTWORK. MAXIMUM EXTENDED LENGTH OF FLEXIBLE DUCT SHALL NOT EXCEED 6 FEET.

DUCT SEALANT: 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): 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 0.75 PCF DENSITY.

DUCT LINER (ALL RECTANGULAR SUPPLY AND RETURN DUCT): PROVIDE MINIMUM 1" THICK, 2 PCF DENSITY, LONG TEXTILE FIBER TYPE DUCT LINER, WITH COATING ON 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.

ROUND VOLUME DAMPERS: PROVIDE MINIMUM 20 GAUGE GALVANIZED STEEL FRAME AND BLADES, MINIMUM 3/8" SQUARE STEEL AXLE, MOLDED SYNTHETIC BEARINGS, WITH LOCKING POSITION REGULATOR. REGULATOR SHALL BE POSITIONED WITH SHEET METAL BRACKET BEYOND DUCT COVERING. WHERE POSITIONING REGULATOR IS NOT ACCESSIBLE, PROVIDE COUPLING AND EXTENSION ROD WITH REGULATOR FOR CEILING OR WALL INSTALLATION, AS REQUIRED.

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 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 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 SHEET METAL 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.

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 SHEET METAL 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

MECHANICAL PIPING IDENTIFICATION: PROVIDE PIPE MARKERS, FLOW ARROWS AND ENGRAVED PLASTIC—LAMINATE SIGNS FOR MECHANICAL PIPING AND VALVES TO COMPLY WITH ANSI A13.1. PROVIDE ONLY ONE TYPE OF PIPE MARKERS AND FLOW ARROWS FOR ALL SYSTEMS.

LARGER ACCESS DOORS.

GREASE EXHAUST DUCTWORK: FACTORY FABRICATED DOUBLE WALL DUCTWORK COMPLIANT WITH UL 2221 AND UL 1978. SEE HOOD SYSTEM DRAWINGS FOR MORE INFORMATION.

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. PROVIDE COMPOSITE GREASE DUCT FIRE PROTECTION INSULATION FROM ONE OF THE FOLLOWING: THERMAL CERAMICS FIREMASTER FASTWRAP XL, UNIFRAX FYREWRAP 2.0 MAX.

MECHANICAL EQUIPMENT IDENTIFICATION: PROVIDE ENGRAVED PLASTIC LAMINATE LABEL FOR EACH MAJOR ITEM OF MECHANICAL EQUIPMENT AND EACH OPERATIONAL DEVICE. LETTERS SHALL BE MINIMUM OF 1/2" HIGH. PROVIDE SIGNS TO INFORM OPERATOR OF OPERATIONAL REQUIREMENTS, TO INDICATE SAFETY AND EMERGENCY PRECAUTIONS, AND TO WARN OF HAZARDS AND IMPROPER OPERATION.

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 DISCREPANCIES TO HVAC INSTALLER FOR CORRECTION. MARK FINAL BALANCE POSITIONS ON DAMPERS WITH PERMANENT MARKER.

OPERATIONS AND MAINTENANCE MANUALS (0&M): AT COMPLETION OF PROJECT PROVIDE A MINIMUM OF TWO 0&M MANUALS IN THREE RING BINDERS TO OWNER/TENANT. MANUALS SHALL HAVE TABS LABELED WITH ALL SECTIONS SEPARATED WITH A CLEAR INDEX AT FRONT. PROVIDE WARRANTY LETTER AT FRONT OF MANUAL STATING DATES OF WARRANTY (START DATE AND END DATE) AND CONTACTS WITH PHONE NUMBERS FOR WARRANTY WORK. PROVIDE NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE INCLUDING RECOMMENDED SETPOINTS. MANUALS SHALL INCLUDE SUBMITTALS OF ALL EQUIPMENT, SIZE AND OPTIONS SELECTED. PROVIDE ALL BALANCING REPORTS. PROVIDE MANUFACTURER LITERATURE FOR OPERATIONS AND MAINTENANCE FOR ALL EQUIPMENT ON PROJECT. ALL PERIODIC AND ROUTINE MAINTENANCE SHALL BE CLEARLY IDENTIFIED. PROVIDE CONTROLS SECTION LISTING SYSTEM OPERATING AND CONTROL INSTRUCTIONS, MAINTENANCE, CALIBRATION, WIRING DIAGRAMS, SCHEMATICS AND CONTROL SEQUENCE DESCRIPTIONS.

SHOP DRAWINGS/SUBMITTALS: SUBMIT ELECTRONIC SUBMITTALS AND SHOP DRAWINGS VIA EMAIL AS PDF ELECTRONIC FILES. PROVIDE SEPARATE PDF 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 NAMEDATE
- 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
- TRANSMITTAL NUMBERREMARKS

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 CATALOG CUTS
 MANUFACTURER'S PRODUCT SPECIFICATIONS
 STATEMENT OF COMPLIANCE WITH SPECIFIED REFERENCED STANDARDS
- TESTING BY RECOGNIZED TESTING AGENCYAPPLICATION OF TESTING AGENCY LABELS AND SEALS
- WIRING DIAGRAMS SHOWING FACTORY—INSTALLED WIRINGPERFORMANCE 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 STANK
- COMPLIANCE WITH SPECIFIED STANDARDSNOTATION 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.

MECHANICAL SYMBOLS LEGEND

ABBREVIATIONS:

- AHJ AUTHORITY HAVING JURISDICTION
- BRITISH THERMAL UNIT
- CFM CUBIC FEET PER MINUTE
- DB DRY BULB
- EA EXHAUST AIR
- EAT ENTERING AIR TEMPERATURE
- ESP EXTERNAL STATIC PRESSURE
- GC GENERAL CONTRACTOR
- HZ FREQUENCY
- LAT LEAVING AIR TEMPERATURE
- MC MECHANICAL CONTRACTOR

WET BULB

NC NOISE CRITERIA

RTU ROOFTOP UNIT

GRILLES/DIFFUSERS:

SUPPLY DIFFUSER

RETURN GRILLE

DOUBLE LINE DUCT SYMBOLS:

NEW SHEET METAL DUCTWORK & SIZE

SUPPLY OR OUTSIDE AIR DUCT

RETURN AIR DUCT

EXHAUST AIR DUCT

EXHAUST GRILLE



SUPPLY DUCT ELBOW UP OR DOWN

RETURN DUCT ELBOW UP OR DOWN

EXHAUST DUCT ELBOW UP OR DOWN

DUCT ELBOW WITH FIXED TURNING VANES

DUCT BRANCH TAKE-OFF

ROUND SPIN-IN WITH DAMPER

VOLUME DAMPER

FLEXIBLE DUCTWORK

GENERAL REFERENCES/NOTATIONS:

SQUARE NOTE DESIGNATION

REVISION DESIGNATION

TYPE MECHANICAL EQUIPMENT DESIGNATION

S THER CONSTRUCTION, IF NOT CFM

EQUIPMENT:

ROOF MOUNTED EXHAUST FAN

ROOFTOP UNIT

TEMPERATURE SENSOR

TEMPERATURE/HUMIDITY SENSOR

DUCT SMOKE DETECTOR

THERMOSTAT - ELECTRIC

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

REVISIONS No. Date Description 1 8/01/2023 RESPONSE TO CITY 2 9/04/2023 HEALTH COMMENTS 3 9/12/2023 RESPONSE TO CITY

Description

ISSUE TABLE

Date

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description



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KITCHEN (OR ITS AFFILIATED OR RELATED COMPANIES) AND MAY NOT BE
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THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT AND TO REPORT ANY DISCREPANCIES TO THE POPEYES LOUISIANA KITCHEN REPRESENTATIVE PRIOR TO COMMENCING WORK. THESE DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS INDICATED BY POPEYES LOUISIANA KITCHEN AS "ISSUED FOR CONSTRUCTION".

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9.13.2023

Company Logo



TEL: 214-343-9400 <u>www.dimensiongrp.com</u>



POPEYES

Store Type

US 2112 PROTOTYPE 2112-21

1517 NC 24-87 CAMERON, NC

awina Title

MECHANICAL SPECIFICATIONS

Drawn	Checked	SIA
NI	АН	
Scale	Date	⊔
1/4" = 1'-0"	JUNE 2023	/ES
Project No.	Drawing No.	Щ
C22-129	MS1.1	Š

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. 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
- 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 AUTHORIT HAVÍNG 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
- 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
- VERIFY SERVICE CONNECTION POINTS, SIZES, ELEVATIONS AND METERING LOCATIONS FOR PROJECT WITH LOCAL UTILITY COMPANIES AND/OR CIVIL ENGINEER, AS APPLICABLE.
- WATER ENTRY SERVICE PIPING, NEW AND/OR REVISED. CONTRACTOR SHALL ENSURE AND PROVIDE MINIMUM 10'-0" LINÉAR FEET ÓF METAL PIPING MATERIAL BELOW GRADE IN CONTACT WITH EARTH FOR CONNECTION OF ELECTRICAL SERVICE GROUNDING.
- K. PLUMBING CONTRACTOR SHALL EXECUTE ALL WORK SO THAT IT PROCEDES WITH A MINIMUM OF INTERFERENCE
- L. FLOOR DRAINS SHALL HAVE 6" DEEP SEAL TRAPS.
- M. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTING WATER SUPPLY TO THE COFFEE MAKERS, TEA BREWERS, AND ICE MACHINES.
- N. WRAP ALL CONDENSATE PIPE IN FREEZER WITH HEAT TRACING TAPE AND INSULATE ALL CONDENSATE DRAIN PIPING. ROUTE COOLER CONDENSATE DRAIN PIPING TO HUB DRAIN/FLOOR DRAIN AS INDICATED.
- O. POT SINKS SHALL BE ANCHORED TO WALL AND SEALED WITH SILICONE CAULKING.
- P. INSTALL GAS VALVE (FBC) IN GAS LINE TO COOKING EQUIPMENT. INTERLOCK WITH HOOD FIRE PROTECTION SYSTEM. VERIFY REQUIREMENTS WITH HOOD SUPPLIER. INSTALL UNIONS AT THE SOLENOID VALVE.
- Q. PROVIDE SHUTOFF COCKS, QUICK DISCONNECTS AND FLEXIBLE LINES AT GAS EQUIPMENT. R. PROVIDE VACUUM BREAKERS AT FIXTURES WITH HOSE THREAD CONNECTIONS.
- S. PROVIDE DIELECTRIC UNIONS AT ALL DISSIMILAR METAL PIPE CONNECTIONS.
- T. LAVATORY FAUCETS SHALL LIMIT HOT WATER FLOW TO 0.5 GPM AND HOT WATER TEMPERATURE TO 110° F
- U. PROVIDE 1"Ø SCH 40 BLACK STEEL PIPE FOR GREASE DISCHARGE. RUN LINE FLUSH ON WALL BESIDE FRYERS, VERTICALLY UP IN WALL THROUGH CEILING. SLOPE LINE @ 1"/FI TOWARDS REAR OF BUILDING. RUN LINE DOWN THROUGH CEILING ON FACE OF EXTERIOR WALL TO 75" AFF THEN THROUGH REAR WALL FOR DISCHARGE. HEAT TAPE SHALL BE INSTALLED ON ENTIRE LINE @ 5 WATTS/LINEAR FT. $\,$ G.C. TO PROVIDE STAINLESS STEEL COVERS FOR LINE MOUNTED FLUSH ON WALLS (ENTIRE LENGTH -

MFG: PARKUSA 888-611-PARK www.ParkUSA.com

WHERE EXCESSIVE GREASE MAY INTERFERE WITH THE PROPER DRAINAGE OF THE SEWER

SYSTEM. THE GREASE INTERCEPTOR IS GENERALLY BURIED BELOW GRADE FOR GRAVITY FLOW

CLASS I/II CONCRETE WITH DESIGN STRENGTH OF 4500 PSI AT 28 DAYS. UNIT IS OF MONOLITHIC CONSTRUCTION AT FLOOR, FIRST STAGE OF WALL AND BAFFLE WITH SECTIONAL RISER TO REQUIRED DEPTH. (MONOLITHIC

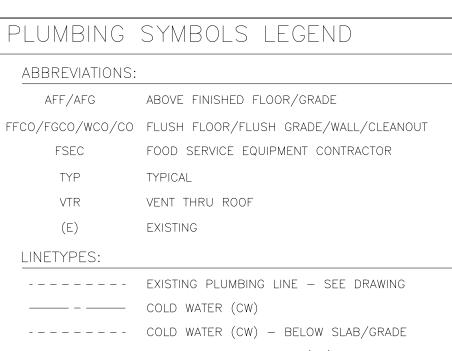
BAFFLE REQUIRED, SLIDE-IN TYPE IS NOT ACCEPTABLE)

CLASS 30. MANHOLE SHALL BE NOMINAL 24 INCH DIAMETER AND BE TRAFFIC DUTY.

SEWER SYSTEMS. A SAMPLE WELL IS UTILIZED ON THE OUTLET SIDE FOR SAMPLING BY THE

REINFORCEMENT: GRADE 60 REINFORCED WITH STEEL REBAR CONFORMING TO ASTM A615 ON REQUIRED CENTERS OR EQUAL

SPECIFICATIONS



——— – – HOT WATER (HW) 140° ----- HOT WATER RETURN (HWR) ------ G ------ NATURAL GAS LINE ——— D———— CONDENSATE LINE (D) ---- PLUMBING VENT (V) — — — — PLUMBING VENT (V) — BELOW SLAB/GRADE ——— SANITARY WASTE (SAN) — BELOW SLAB/GRADE

----- WATER HEATER VENT ----- SODA CHASE ---- USED COOKING OIL

----- OST ----- OVERFLOW STORM LINE (OST)

GENERAL REFERENCES/NOTATIONS:

01/P1 DETAIL OR SECTION /#\ REVISION

CONNECT TO EXISTING

PLAN NOTE

(####) FOOD SERVICE EQUIPMENT HVAC EQUIPMENT

PIPE SYMBOLS:

PIPE UP/DOWN \—\D\—\D\—\D\—\BALL/PLUG VALVE TEE UP/DOWN LIVE BALANCING/CHECK 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.

FROM KITCHEN WASTE

—4" VENT

-x" воот

X" INLET

CAST IRON FRAME & COVER (TYP-2)

GT-4000 4,000 9,300 38,100 16'-0" 8'-6" 7'-0" 5'-9" 5'-6"

THE GREASE INTERCEPTOR IS STRUCTURALLY & HYDRAULICALLY ENGINEERED TO CONFORM TO

SHOP DRAWINGS SHALL INCLUDE COMPLETE STRUCTURAL & BOUYANCY CALCULATIONS

CONSULT WITH PARKUSA COMPANY FOR EXACT EXCAVATION DIMENSIONS &

GREASE INTERCEPTOR SERIES GT

500 THRU 4000 GALLON CAPACITY

OTHER SIZES ARE AVAILABLE. CONTACT US FOR MORE INFORMATION

CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER UPON REQUEST.

ENGINEERING DATA

AUTHORITIES FOR SPECIFIC APPLICATION REQUIREMENTS.

6" VENT SLEEVE

LIQUID SURFACE-

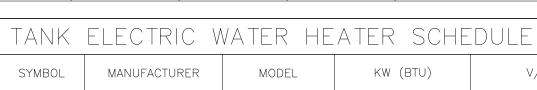
- MONOLITHIC BAFFLE

GREASE SENSOR

-6" PVC DOUBLE TEE MANIFOLD

<u>PLAN VIEW</u>

<u>ELEVATION</u>



PLUMBING FIXTURE SCHEDULE

MANUF.

AMFRICAN

STANDARD

AMERICAN

STANDARD

WOODFORD

ZURN

ZURN

SIOUX CHIFF

WATTS

SYMMONS

MODEL

3043.001

"MADERA"

LUCERNE

MODEL 65

Z886-SOG

832-35D-NR

RD - 250

Z199

P1 - 500

7-225-CK

"MAXLINE"

 $\#Z1900-3NH-K \mid 3"$ BOTTOM OUTLET

#ZN415-B-3N | ADJUSTABLE STRAINER & 3" BOTTOM OUTLET.

SELF LOCKING CAST IRON DOME, AND NO HUB

ALL NICKEL BRONZE BODY WITH DECORATIVE

FACE OF WALL FLANGE AND OUTLET NOZZLE.

SERVICE UP TO FOUR FLOOR DRAINS WITH

/2" INLETS AND OUTLET, THERMOSTATIC

BODY WITH DUAL STAINLESS STEEL STRAINER,

VANDAL RESISTANT TEMPERATURE ADJUSTMENT

DISTRIBUTION UNIT.

OUTLETS. PROVIDE OUTLET SIZE AS SHOWN ON

AUTOMATIC OPERATION, 1/2" INLET AND OUTLET.

#0356.921.020 EBF-650 4" CENTER SET, BATTERY POWERED

SYMBOL | FIXTURE TYPE

WATER CLOSET

(ACCESSIBLE)

LAVATORY

(ACCESSIBLE)

FROST PROOF

WALL HYDRANT

TRENCH DRAIN

FLOOR SINK

ROOF DRAIN

DOWNSPOU

NOZZLE

TRAP PRIMER

MIXING VALVE

FLOOR DRAIN | SIOUX CHIEF /

<u>FPWH</u>

<u>FS</u>

<u>DSN</u>

V/PH GPH @ 70°F RISE SET POINT (°F) NOTES (#) RHEEM ES120-24-G 208/3 (1), (2), (3) $\underline{\mathsf{WH}-1}$ (51,183)NOTES:

WATER HEATER TANK SHALL HAVE A WORKING PRESSURE OF 150PSI, PER MANUFACTURER'S REQUIREMENTS. 2. FURNISH WITH EXPANSION TANK AS SPECIFIED ON PLANS. D HOT WATER LINES

HANDLE.

3.	PROVIDE	WITH	1-1/2"	COLD	WATER	AND
EXPAN	SION	$\top \wedge$	ANK	SCH	HEDL	JL

		\ JUILDULL	_					
SYMBOL	MANUFACTURER	MODEL	TOTAL VOLUME (GALLONS)	ACCEPTANCE VOLUME (GALLONS)	CONNECTION LOCATION	CONNECTION SIZE	MOUNTING	NOTES (#)
<u>ET</u>	AMTROL	ST-5	2	.45	TOP	3/4"	NEAR WH-1	(1), (2)
NOTES:								

1. EXPANSION TANK: STEEL SHELL, HEAVY DUTY BUTYL NSF/ANSI 61, FACTORY PRECHARGED TO 40 PSIG. MAX OPERATING TEMPERATURE 100°, MAX OPERATING PRESSURE 150 PSI, 1 YEAR MANUFACTURER'S WARRANTY. INSTALL PER MANUFACTURER'S INSTRUCTIONS. 2. FIELD CHARGE EXPANSION TANK TO SYSTEM PRESSURE BEFORE CONNECTION TO DOMESTIC WATER SYSTEM. FIELD VERIFY PRESSURE REQUIREMENTS.

PUMP	SCHEDULE	
0) (1 1 1 0 0 1	NANULEA OTUBED	

NOTES (#) HEAD (FT) MODEL GPM VOLTAGE PHASE WATTS AMPS SYMBOL MANUFACTURER <u>RCP</u> ALPHA2 115 GRUNDFOS 5 - 65 0.65 NOTES:

1. RECIRCULATING PUMP: BRONZE BODY RECIRCULATING PUMP WITH "AUTOADAPT" VARIABLE SPEED MOTOR. INSTALL NEAR WATER HEATER PER MANUFACTURER'S INSTRUCTIONS. PROVIDE WITH ALPHA 3-PRONG PLUG AND COORDINATE CONNECTION WITH ELECTRICAL CONTRACTOR. PROVIDE WITH HONEYWELL L6006C SURFACE MOUNT AQUASTAT SET TO 5°F BELOW WATER HEATER OPERATING TEMPERATURE.

HEAT TRACING

86.03

SYMBOL	MANUFACTURER	MODEL	TEMP	LENGTH (MAX)	VOLTAGE	PHASE	WATTS/FOOT	AMP (MAX)	NOTES (#)
<u>HC</u>	RAYCHEM	8XL2-CR/CT	105°F	350	208	1	8	15	(1), (2)
NOTES:	CELE DECLILATING LIE								

1. SELF-REGULATING HEATING CABLE TO MAINTAIN TEMPERATURE OF USED COOKING OIL LINE. REFER TO PLANS FOR ROUTING. MAXIMUM CIRCUIT LENGTH IS 350'-0" OF CABLE. 208-1V AT 8W/FT (2800 WATT / 15 AMP MAX). 2. PROVIDE WITH EC-W-GF CONTROLLER WITH GROUND FAULT PROTECTION, AND NECESSARY COMPONENTS TO PUT IN WORKING ORDER. INSTALL CABLE PER MANUFACTURER'S RECOMMENDATIONS.

	TH (IN)	WIDTH (IN)	DEPTH (IN)	VOLUME (IN^3)	GPH (@37.5%)
		15	14		
MNF. RAT	/			12600	20.45
	TE (GPM)	WATER USAGE (GPH)	STD. RATE (GPM)	GPH	COMBINED GPH
1.1	15	32	2.5	14.72	29.44
0.	.5	5	2.2	1.14	1.14
2.	.2	5	2.2	5.0	15.0
2.	.2	5	2.2	5.0	5.0
				15.0	15.0
	-			29.6	0.0
				TOTAL GPH	86.03
	2.	0.5 2.2 2.2 	0.5 5 2.2 5 2.2 5	0.5 5 2.2 2.2 5 2.2 2.2 5 2.2	0.5 5 2.2 1.14 2.2 5 2.2 5.0 2.2 5 2.2 5.0 15.0 29.6 TOTAL GPH

8.33

98%

3412

15.0

1.002

				FOODS	SERVICE PLUMBING SCHEDULE	
	DESCRIPTION	ACCESSORIES/OPTIONS		ID	DESCRIPTION REM.	ARKS
		AGGEGGENIES, OF HONE		A10.30	MULTIPLE FRYER SYSTEM, GAS	
	FLOOR MOUNT, WHITE VITREOUS CHINA, 1.1—1.6 GPF ELONGATED SIPHON JET BOWL, 1—1/2" TOP			A24.U2	MULTIPLE FRYER SYSTEM, GAS	
	SPUD, & RIM HEIGHT 17" A.F.F. PROVIDE WITH SLOAN MANUAL DUAL FLUSH 1.6/1.1 GPF WATER	MAINLINE #ML1055SSC00 WHITE OPEN FRONT		A35.00	1 COMPARTMENT SINK	
	CLOSET FLUSH VALVE. PROVIDE FLUSH LEVER	ELONGATED TOILET SEAT LESS COVER.		A35.10	PRE-RINSE FAUCET ASSEMBLY	
	ON ACCESSIBLE SIDE. INSTALL IN ACCORDANCE TO ADA ACCESSIBILITY REQUIREMENTS.			C10.32	POPEYES DUAL SIDE SANDWICH PREP	
	·	PROVIDE WITH QUARTER TURN BRASS ANGLE		D29.00	PACKING TABLE, DOUBLE SIDED	
	WALL HUNG, 20"X18" WHITE VITREOUS CHINA,	COMPRESSION STOPS WITH LOOSE KEY HANDLES, STAINLESS BRAIDED SUPPLIES, CHROME		D40.00	3 COMPARTMENT SINK	
20	BACK OVERFLOW. PROVIDE WITH SLOAN EBF—650 4" CENTER SET, BATTERY POWERED	ESCUTCHEONS, CHROME GRID STRAINER DRAIN		D40.01	PRE-RINSE FAUCET ASSEMBLY	
SEN 0.3	SENSOR FAUCET WITH FACTORY SET 0.175 GPC	WITH TAILPIECE, & CHROME PLATED CAST BODY P-TRAP WITH CLEANOUT. INSULATE WASTE AND WATER PIPING WITH TRUEBRO "LAV-GUARD2" #101-EZ. FURNISH WITH ZURN #Z-1231-81 LAVATORY CARRIER.		D50.00	DISHWASHER	
	0.35 GPM AERATOR. INSTALL IN ACCORDANCE O ADA ACCESSIBILITY REQUIREMENTS.			D70.00	HOT WATER DISPENSER	
				D81.00	RETHERMALIZER	
	ANTI—SIPHON, AUTOMATIC DRAINING, WALL HYDRANT, NON—FREEZE INTEGRAL VACUUM	MOUNT 18" ABOVE FINISHED GRADE. PROVIDE APPROPRIATE MODEL FOR WALL THICKNESS AND SITE SPECIFIC TEMPERATURE REQUIREMENTS.		E10.00	WALK-IN COOLER/FREEZER	
	BREAKER ALL BRONZE INTERIOR PARTS KEY AF			E30.84	CHICKEN CRATE	
	· ,			H10.00	DUAL LINE PRODUCTION COUNTER	
	6-1/4"X24" HDPE TRENCH DRAIN WITH STAINLESS DECORATIVE GRATE. FIELD CUT			K10.00	ICE MAKER, CUBE-STYLE	
	TRENCH DRAIN AS REQUIRED. COORDINNATE FINISHED WIDTH AND LOCATION WITH ARCHITECT	SET TRENCH DRAIN LEVEL WITH FINISH FLOOR.		K11.00	ICE MAKER, CUBE-STYLE	
	PRIOR TO ISNTALLATION.			K15.00	ICE BIN	
		PROVIDE WITH TRAP PRIMER CONNECTION AND WITH ASSE 1072 APPROVED TRAP SEAL DEVICE.		K20.00	WATER FILTER SYSTEM	
₹	FLOOR DRAIN WITH 5" ROUND NICKEL BRONZE	TRAP SEAL DEVICE SHALL BE TRAP PROSET		K40.00	GREASE TANK	
N	ADJUSTABLE STRAINER & 3" BOTTOM OUTLET.	TRAPGUARD OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE		K41.00	CO TANK	
		DRAINS IN CUSTOMER AREAS WITH VANDAL RESISTANT SCREWS.		K42.00	BAG N BOX	
		TRESISTANT SONEWS.		K71.00	TEA BREWER	
	12" SQUARE TOP FLOOR SINK W/8" DEEP &	 SET FLOOR SINK LEVEL WITH FINISH FLOOR.		N10.00	HAND SINK	
-K	3" BOTTOM OUTLET	22 2001. C.I.I. ELVEE IIIII FIIIIOII FEOOIL.		N20.00	MOP SINK	
	CAST IRON COMBINATION ROOF DRAIN/OVERFLOW WITH DECK FLANGE, FLASHING CLAMPS WITH INTEGRAL GRAVEL GUARD, OVERFLOW STANDPIPE, SELF LOCKING CAST IRON DOME. AND NO HUB	INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. UNDERDECK CLAMP AND SUMP RECEIVER. FIELD VERIFY ROOF INSTALLATION		FOOD SERVICE FOR A COME	ULE IS A PARTIAL LISTING OF THE EQUIPMENT SUPPLIED CE EQUIPMENT CONTRACTOR (FSEC). REFER TO FSEC DE PLETE LISTING OF EQUIPMENT, TYPES, SIZES, AND LOCATION CONTRACTOR (PC) TO PROVIDE NECESSARY ITEMS TO INSTA	RAWINGS ONS.

REQUIREMENTS AND COORDINATE INSULATION

INSTALL IN ACCESSIBLE LOCATION WITH PRIMER

LOCATED MINIMUM OF 6" ABOVE FLOOD LEVEL

OF FLOOR DRAIN RIM. PROVIDE ACCESS PANEL

COORDINATE MOUNTING LOCATION WITH

ARCHITECTURAL ELEVATIONS.

AS REQUIRED.

LOCATION.

ONTROLLER WITH INTEGRAL CHECKS, ALL BRASS SET TO 105°F. MOUNT IN ACCESSIBLE

PLUMBING CONTRACTOR (PC) TO PROVIDE NECESSARY ITEMS TO INSTALL FSEC EQUIPMENT (INCLUDING VALVES, UNIONS, FITTINGS, ETC.) TO MAKE COMPLETE SYSTEM. THIS LISTING DOES NOT SUPERSEDE THE FSEC DRAWINGS.

BACKFLOW PREVENTER SCHEDULE						
LOCATION	TAG	MODEL	ASSE			
MAIN WATER SUPPLY	<u>RPZ</u>	WATTS 009QTS	1013			
CARBONATOR	<u>DCV-1</u>	WATTS SD-3	1022			
SODA DISPENSERS	DCV-2	WATTS SD-2	1032			
OTHER EQUIPMENT	DCV-3	WATTS SERIES 7	1024			

VERIFY BACKFLOW VALVE REQUIREMENTS AND APPROVAL FOR ALL EQUIPMENT WITH AUTHORITIES HAVING JURISDICTION PRIOR TO INSTALLATION.

GRAVITY GREASE INTERCEPTOR SIZING							
<u>FIXTURE</u>	QTY.	FLOW RATE (30 MIN)	TOTAL	FLOW RATE (15 MIN)	TOTAL		
FLOOR DRAIN	4	0.00	0.00	0.00	0.00		
FLOOR SINK	3	7.50	22.50	3.75	11.25		
MOP BASIN	1	140.25	140.25	70.13	70.13		
THREE COMP SINK	1	450.00	450.00	30.00	30.00		

TOTAL FIXTURE FLOW RATE (30 MIN)	612.75	CALCULATED FLOW RATE (GPM)	
TOTAL FIXTURE FLOW RATE (15 MIN)	103.88	42.00	
PIPE SIZE FLOW RATE (4 IN)	75	42.00	

NUMBER OF SEATS

AVG. MEALS PER SEAT PER DAY FAST FOOD - FULL PREP (HIGH / NO FLATWARE: 0.035 LBS PER SERVING)

[(CU IN / 231) = GAL X 0.75 / 2 MIN = 2 MIN FLOW RATE]

DAYS BETWEEN PUMP OUTS 90 SERVINGS PER DAY X GREASE PRODUCTION VALUE X DAYS BETWEEN PUMP-OUTS = GREASE OUTPUT

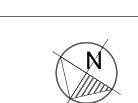
(LBS OF

<u>FOG)</u>

116.0

ISSUE TABLE Date Description (mm/dd/yy) **REVISIONS** No. Date Description 8/01/2023 RESPONSE TO CITY HEALTH COMMENTS 2 9/04/2023 3 9/12/2023 RESPONSE TO CITY

DRAW	INGS REVIS	ED AS PER DESIGN BULLETIN
No.	Date	Description



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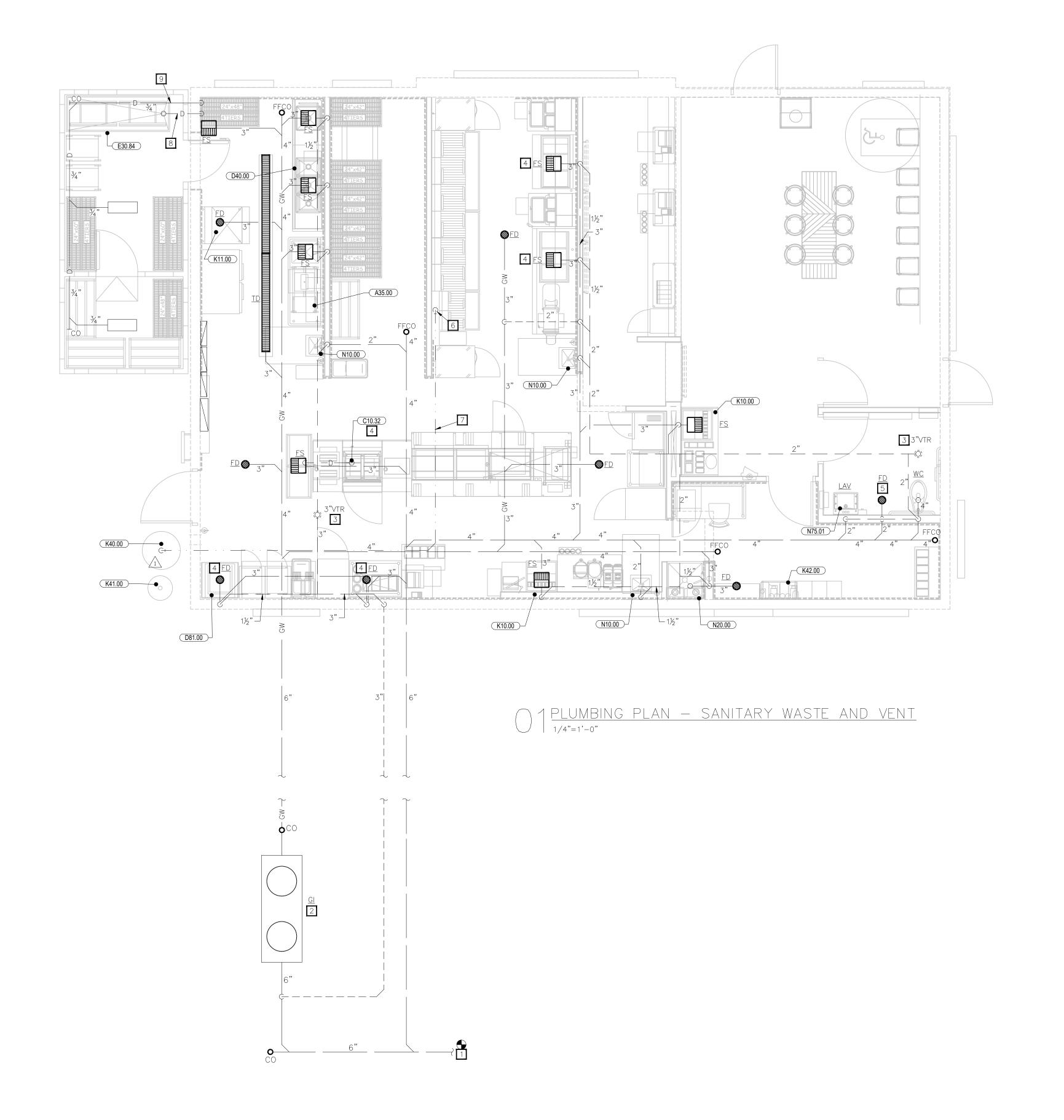
1517 NC 24-87

CAMERON, NC

PLUMBING SCHEDULES &

NOTES Checked

1/4" = 1'-0" **JUNE 2023** Project No Drawing No. C22-129 P1.1



PLUMBING KEY NOTES

CONNECT TO SANITARY WASTE LINE ON EXTERIRO OF BUILDING PROVIDED BY OTHERS. REFER TO CIVIL DRAWINGS FOR CONTINUATION.

PROVIDE 1500 GALLON GREASE INTERCEPTOR AS SHOWN PER PLANS.
REFER TO "GREASE INTERCEPTOR" DETAIL. LOCATE INTERCEPTOR
OUTSIDE OF DRIVE LANES. COORDINATE WITH CIVIL DRAWINGS FOR FINAL

PROVIDE SANITARY VENT THROUGH ROOF AS SHOWN PER PLAN PER "VENT THRU ROOF (VTR)" DETAIL. LOCATE VENT MINIMUM OF 10'-0" AWAY FROM AIR INTAKES ON ROOF, UNLESS APPROVED BY ENGINEER PRIOR TO INSTALLATION.

PROVIDE DRAIN LINE FROM KITCHEN EQUIPMENT TO FLOOR SINK.
REFER TO KITCHEN EQUIPMENT PLANS.

5 EMERGENCY DRAIN IN RESTROOM SHALL BE INSTALLED FLUSH TO GRADE WITH NO SLOPE. COORDINATE INSTALLATION HEIGHT WITH GENERAL CONTRACTOR TO ENSURE PROPER INSTALLATION.

6 USED COOKING OIL LINE MOUNTED FLUSH AGAINST WALL @ 3'-0" AFF. REFER TO "USED COOKING OIL RECOVERY" DETAIL. G.C. SHALL PROVIDE STAINLESS STEEL COVER TO CEILING.

RECOMMENDATIONS. REFER TO PLUMBING FIXTURE SCHEDULE FOR MORE INFORMATION.

8 EXTEND CHICKEN VAT'S 2" COPPER INDIRECT WASTE LINE THROUGH COOLER WALL TO DISCHARGE INTO FLOOR SINK.

7 PROVIDE <u>HC</u> HEAT TRACE TAPE ON USED COOKING OIL LINE FROM BUILDING TO TANK. INSTALL HEAT TRACE PER MANUFACTURER'S

9 ROUTE FREEZER/COOLER CONDENSATE DRAIN TO FLOOR SINK PER "WALK-IN COOLER/FREEZER DRAIN" DETAIL.

DFU CALCULA	ATIONS		
FIXTURE	QTY.	DFU	TOTAL
WATER CLOSET	1	4	4
LAVATORY	1	1	1
MOP BASIN	1	3	3
HAND SINK	3	1	3
3" FLOOR SINK	9	5	45
3" TRENCH DRAIN (EMERGENCY)	1	-	_
2"/3" FLOOR DRAIN (EMERGENCY)	7	-	_
DFU VALUES PE	R IPC	DFU TOTAL	56.0

10001	TABLE	
No.	Date (mm/dd/yy)	Description

REVISIONS				
No.	Date	Description		
1	8/01/2023	RESPONSE TO CITY		
2	9/04/2023	HEALTH COMMENTS		
3	9/12/2023	RESPONSE TO CITY		

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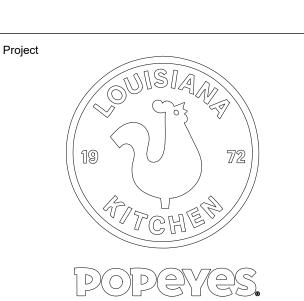
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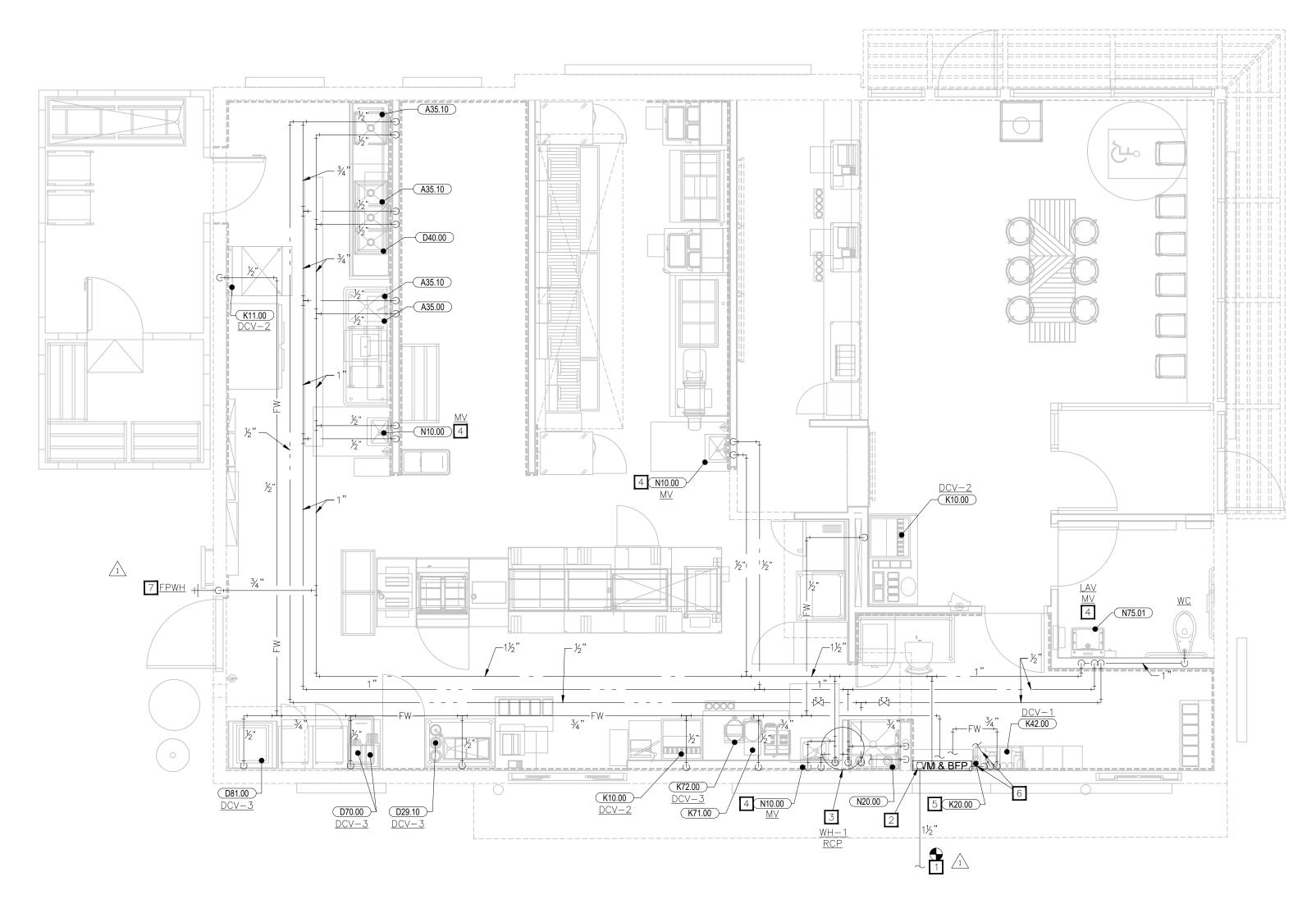
US 2112 PROTOTYPE 2112-21

1517 NC 24-87 CAMERON, NC

Drawing Title

PLUMBING PLAN -SANITARY WASTE AND

VENI		
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Scale	Date	
1/4" = 1'-0"	JUNE 2023	
Project No.	Drawing No.	
C22-129	P2.1	



1 PLUMBING PLAN - DOMESTIC WATER 1/4"=1'-0"

PLUMBING KEY NOTES

- WATER FILTER MOUNTED ON WALL. STUB-OUT WATER SUPPLY @ 8'-4"
 A.F.F. REFER TO "WATER FILTER" DETAIL.
- MOUNT FREEZE-PROOF WALL HYDRANT 18" ABOVE FINISHED GRADE.
 VERIFY EXACT LOCATION WITH ARCHITECTURAL ELEVATIONS.

WSFU	CALCULATIONS	
		Т

FIXTURE	QTY.	WSFU	TOTAL
WATER CLOSET (FLUSH)	1	10	10
LAVATORY	1	2	2
MOP BASIN	1	3	3
HAND SINK	3	2	6
1-COMP SINK	1	3	3
3-COMP SINK	1	3	3
WAREWASH	1	3	3
BEVERAGE STATION	2	2	4
ICE MAKER	3	1	3
HOT WATER DISPENSER	2	1	2.0
TEA BREWER	1	1	1.0
WSFU VALUES PI	ER IPC	WSFU TOTAL	40.00

CRITICAL ELEVATIONS AND DISTANCES: ELEVATION OF CONTROLLING FIXTURE (WH-1,2,3) ELEVATION OF FINISHED FLOOR	FEE1
ELEVATION OF WATER MAIN CONNECTION	
VERTICAL DIST. FROM WATER MAIN CONNECTION TO CONTROLLING FIXTURE	1
SYSTEM PRESSURE REQUIREMENTS:	PSI
ELEVATION (VERTICAL DISTANCE) X 0.434 PSI/FT	
PRESSURE NEEDED AT CONTROLLING FIXTURE	
BACKFLOW PREVENTER: 1-1/2" (INTERIOR**)	1
WATER METER: $1-1/2$ " (INTERIOR**)	
TOTAL	3
PIPE RUNS:	FEET
EXTERIOR, MAIN TO BUILDING ENTRY (VERIFY**)	2
INTERIOR, ENTRY TO CONTROLLING FIXTURE	
INTERIOR, VERTICAL RISE	1
ALLOWANCE FOR FITTINGS, ETC. (LENGTH X 0.25)	1
TOTAL	26

SYSTEM PRESSURE REQUIRED FOR SYSTEM PRESSURE AVAILABLE FOR (PIPING) FRICTION LOSS

PIPE SIZING: PRESSURE AVAILABLE X 100 / (TOTAL PIPE RUN)

* NOTE: ALL PIPING IS SIZED FOR 5 PSI/100' PRESSURE LOSS ** NOTE: FIELD VERIFY SYSTEM PRESSURE, LINE SIZES, BACKFLOW LOCATION, AND METER LOCATION PRIOR TO STARTING WORK. NOTIFY ENGINEER IMMEDIATELY IF SYSTEM PRESSURE IS LOWER THAN REQUIRED PRESSURE OR ANY CONDITIONS EXIST THAT CONFLICT WITH INFORMATION

- CONNECT TO DOMESTIC WATER SERVICE 5'-0" OUTSIDE BUILDING PROVIDED BY OTHERS. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
- 2 PROVIDE WATER SERVICE ENTRANCE AS SHOWN PER PLANS. REFER TO "DOMESTIC WATER SERVICE ENTRY" DETAIL.
- 3 ROUTE 1" HW, 1" CW AND 34" HWR LINES TO WATER HEATER, EXPANSION TANK, AND RECIRCULATING PUMP AS SHOW PER PLANS AND PER "TANK ELECTRIC WATER HEATER", "RECIRCULATION PUMP", AND "SMALL EXPANSION TANK" DETAILS. DISCHARGE T&P RELIEF VALVE AND OVERFLOW TO FLOOR DRAIN PER "INDIRECT DRAIN" DETAIL. PROVIDE VALVE AND UNION ON INLET AND OUTLET. PROVIDE BALANCING VALVES AS REQUIRED FOR RECIRCULATING SYSTEM.
- PROVIDE INDIVIDUAL MIXING VALVE FOR ALL HAND SINKS AND LAVATORIES IN AN ACCESSIBLE LOCATION.
- 6 BEVERAGE CONDUIT ABOVE CEILING TO DRINK STATION. REFER TO "BEVERAGE CONDUIT ABOVE SLAB" DETAIL.

SFU	CAL	CUII	ATIONS	

FIXTURE	QTY.	WSFU	TOTAL
WATER CLOSET (FLUSH)	1	10	10
LAVATORY	1	2	2
MOP BASIN	1	3	3
HAND SINK	3	2	6
1-COMP SINK	1	3	3
3-COMP SINK	1	3	3
WAREWASH	1	3	3
BEVERAGE STATION	2	2	4
ICE MAKER	3	1	3
HOT WATER DISPENSER	2	1	2.0
TEA BREWER	1	1	1.0
WSFU VALUES P	ER IPC	WSFU TOTAL	40.00

WATER CALCULATION

CRITICAL ELEVATIONS AND DISTANCES: ELEVATION OF CONTROLLING FIXTURE (WH-1,2,3) ELEVATION OF FINISHED FLOOR ELEVATION OF WATER MAIN CONNECTION VERTICAL DIST. FROM WATER MAIN CONNECTION TO CONTROLLING FIXTURE	FEET 6.0 0.0 -4.0 10.0
SYSTEM PRESSURE REQUIREMENTS: ELEVATION (VERTICAL DISTANCE) X 0.434 PSI/FT PRESSURE NEEDED AT CONTROLLING FIXTURE BACKFLOW PREVENTER: 1-1/2" (INTERIOR**) WATER METER: 1-1/2" (INTERIOR**) TOTAL	PSI 4.3 35 10.0 8.0 39.3
PIPE RUNS: EXTERIOR, MAIN TO BUILDING ENTRY (VERIFY**) INTERIOR, ENTRY TO CONTROLLING FIXTURE INTERIOR, VERTICAL RISE ALLOWANCE FOR FITTINGS, ETC. (LENGTH X 0.25)	FEET 200 42 10.0 13.0
TOTAL	265.0

SYSTEM PRESSURE DATA: MINIMUM SYSTEM PRESSURE REQUIRED AT MAIN (VERIFY**)

PSI/100'

SHOWN ABOVE.

ISSUE TABLE

	No.	Date (mm/dd/yy)	Description

REVISIONS				
No.	Date	Description		
1	8/01/2023	RESPONSE TO CITY		
2	9/04/2023	HEALTH COMMENTS		
3	9/12/2023	RESPONSE TO CITY		

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PROJECT NORTH

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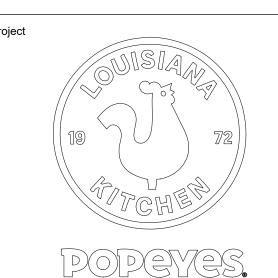


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39.3

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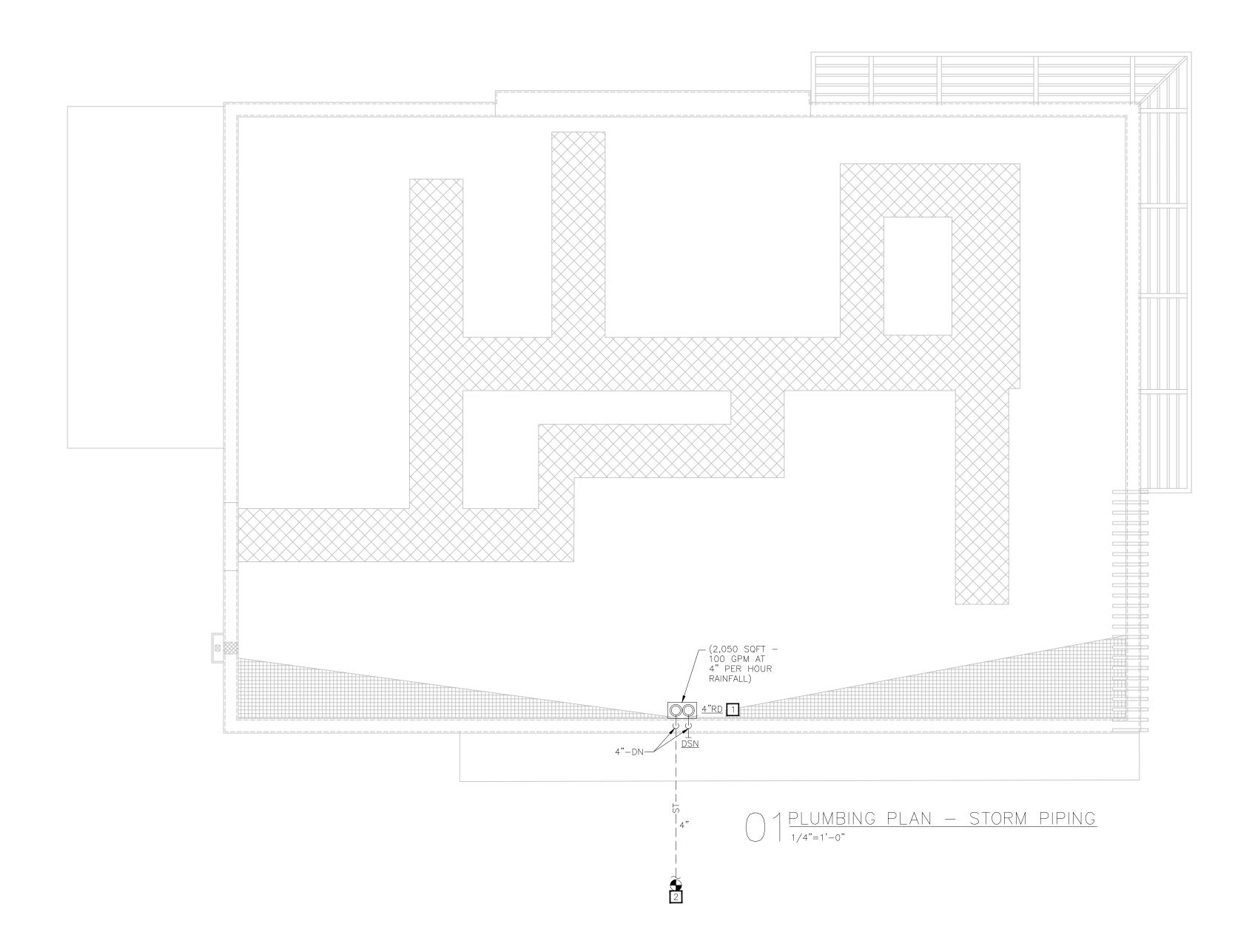
US 2112 PROTOTYPE 2112-21

1517 NC 24-87

CAMERON, NC

PLUMBING PLAN -DOMESTIC WATER

Drawn	Checked
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Scale	Date
1/4" = 1'-0"	JUNE 2023
Project No.	Drawing No.
C22-129	P2.2



PLUMBING KEY NOTES

PROVIDE ROOF DRAIN AS SHOWN PER PLANS PER "ROOF DRAIN" DETAIL.
REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION.

2 EXTEND STORM LINE OUT 5' 0" FOR CONNECTION BY OTHERS. REFER TO CIVIL DRAWINGS FOR CONENCTION LOCATION.

___ ISSUE TABLE

_	ISSUE	IADLE	
	No.	Date (mm/dd/yy)	Description

REVISIONS

INLVIO	IONO	
No.	Date	Description
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	No.	No. Date



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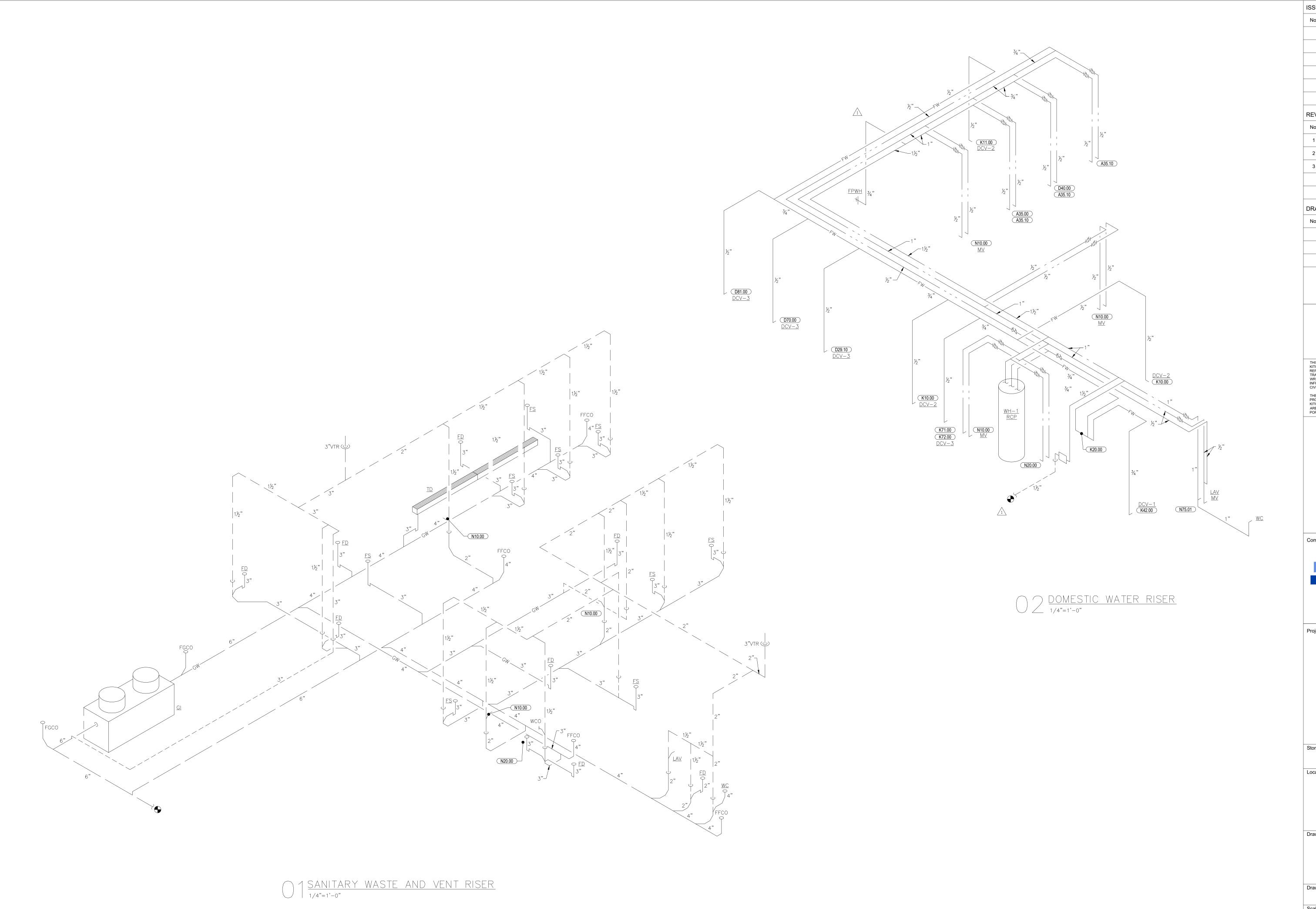
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1517 NC 24-87 CAMERON, NC

Drawing Title

PLUMBING PLAN - STORM PIPING

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Scale	Date	
1/4" = 1'-0"	JUNE 2023	/ES
Project No.	Drawing No.	OPE
C22-129	P2.3	PO



No. Date (mm/dd/yy) Description

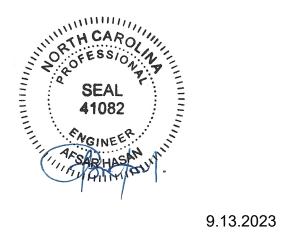
REVISIONS				
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2	9/04/2023	HEALTH COMMENTS		
3	9/12/2023	RESPONSE TO CITY		

DRAWINGS REVISED AS PER DESIGN BULLETIN			
No.	Date	Description	



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Store Type

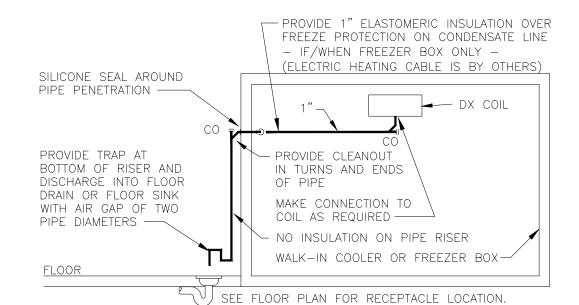
US 2112 PROTOTYPE 2112-21

1517 NC 24-87 CAMERON, NC

Drawing Title

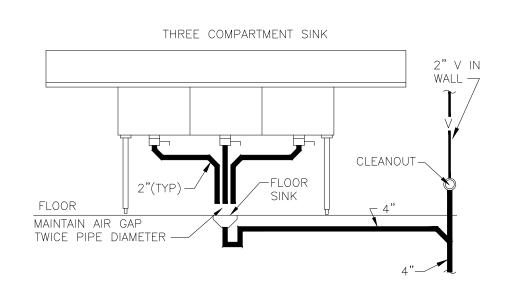
PLUMBING RISERS

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	JUNE 2023	
Project No.	Drawing No.	
C22-129	P3.1	



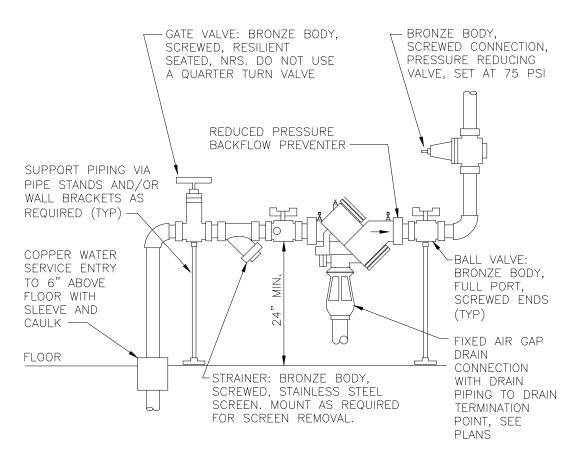
INSTALL PIPE HIGH AS POSSIBLE, ANCHORED TO WALL OF BOX WITH SUPPORTS AT MAXIMUM SIX FOOT CENTERS. USE TYPE "M" HARD COPPER TUBE AND FITTINGS WITH LEAD-FREE SOLDER JOINTS. SLOPE HORIZONTAL PIPE AT MINIMUM TWO PERCENT. REFER TO LOCAL CODE FOR INDIRECT DRAIN REQUIREMENTS.

1 WALK-IN COOLER/FREEZER DRAIN NOT TO SCALE



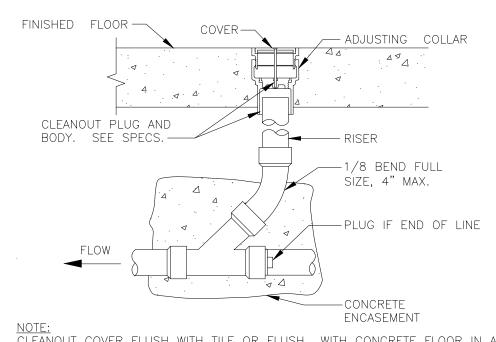
ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS OR MEET LOCAL CODE REQUIREMENTS. UTILIZE HUBLESS CAST IRON PIPE, FITTINGS AND CONNECTORS FOR SINK CONNECTIONS.

 $\frac{3 - \text{COMP SINK}}{\text{NOT TO SCALE}}$



DETAIL SHOWS GENERAL SCHEMATIC REQUIREMENTS. PROVIDE BACKFLOW PREVENTER OF TYPE AND MANUFACTURER APPROVED BY LOCAL AUTHORITIES. PROVIDE PRESSURE REDUCING VALVE ONLY IF PRESSURE EXCEEDS 80 PSI — VERIFY. STRAINER AND REDUCING VALVE MAY BE INSTALLED IN VERTICAL PIPE IF SPACE LIMITATIONS REQUIRE IT. CLEAN STRAINER BEFORE TURNING BUILDING OVER TO OWNER. PROVIDE ANY REQUIRED CERTIFICATION OF TEST OF BACKFLOW PREVENTER TO LOCAL AUTHORITIES.

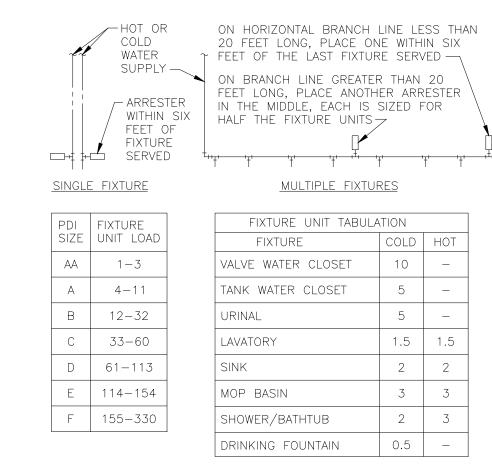
13 DOMESTIC WATER SERVICE ENTRY



NOTE:

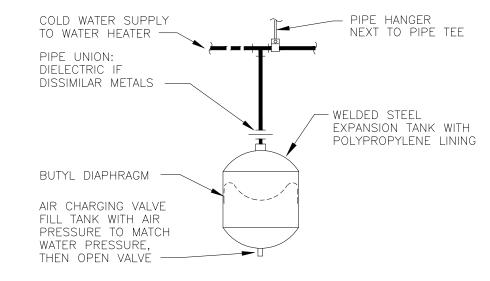
CLEANOUT COVER FLUSH WITH TILE OR FLUSH WITH CONCRETE FLOOR IN AREA WITH NO TILE.

1 / FLOOR CLEAN-OUT



PC TO PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND 0-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.)

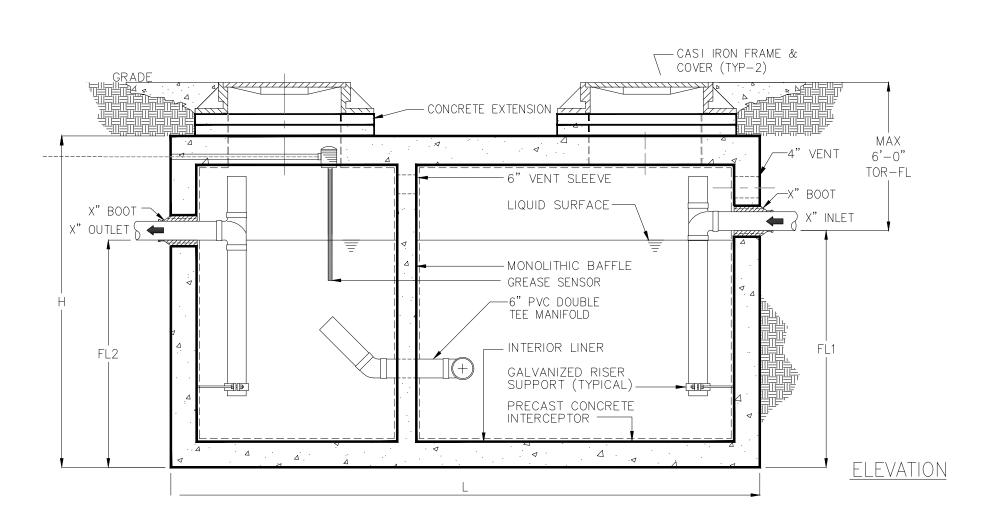
WATER HAMMER ARRESTERS NOT TO SCALE



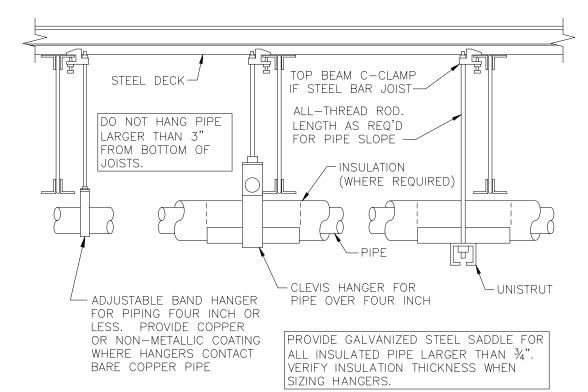
PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. MAKE PIPE SAME SIZE AS TANK FITTING. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION PROCEDURE. VERIFY PROPER OPERATION WHEN INSTALLED.

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

1 () SMALL EXPANSION TANK

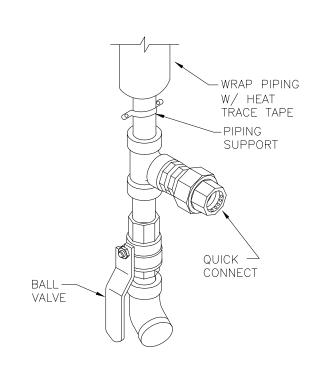


1 2 GREASE INTERCEPTOR NOT TO SCALE

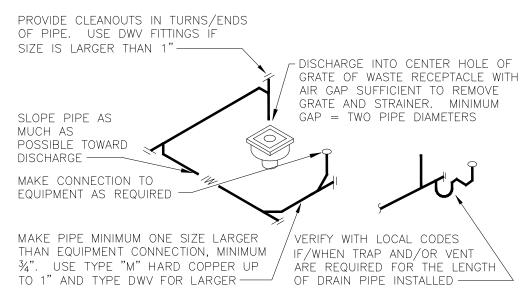


PROVIDE UPPER ATTACHMENT AS REQUIRED FOR CASES NOT SHOWN HERE. DO NOT INSTALL HANGER INSIDE INSULATION OR OTHERWISE PENETRATE VAPOR BARRIER. DO NOT HANG ONE PIPE FROM ANOTHER EXCEPT IN CHASES. TRAPEZE HANGERS MAY BE USED FOR MULTIPLE PARALLEL PIPES. HANGER SPACING FOR PIPE SIZE: COPPER: 4"=12'-0"; 3"=11'-0"; 2½"=10'-0"; 2"=9'-0"; 1½"=8'-0"; 1½"=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.

PIPE HANGERS NOT TO SCALE

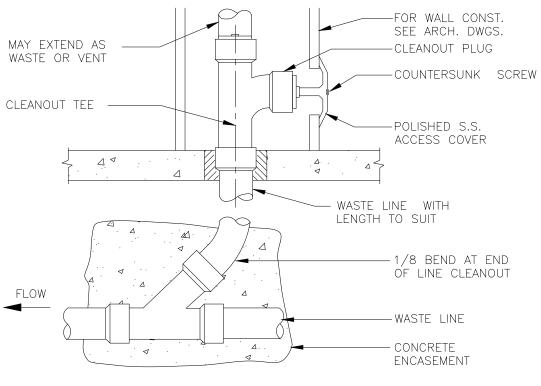


USED COOKING OIL RECOVERY

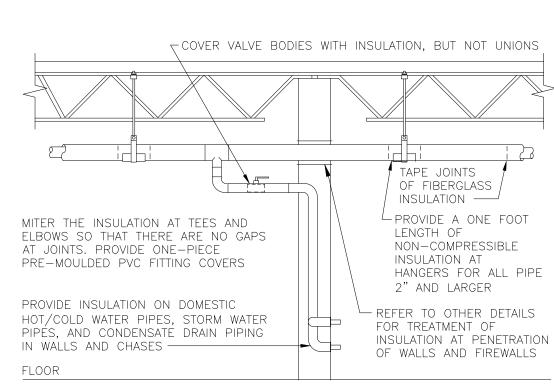


ROUTE PIPE INCONSPICUOUSLY AND UNOBTRUSIVELY. HANG PIPE AS REQUIRED. DO NOT INSULATE INDIRECT DRAIN PIPE WHEN INSTALLED EXPOSED IN FOOD SERVICE FACILITY. REFER TO LOCAL CODES FOR FURTHER INFORMATION.

7 INDIRECT DRAIN NOT TO SCALE

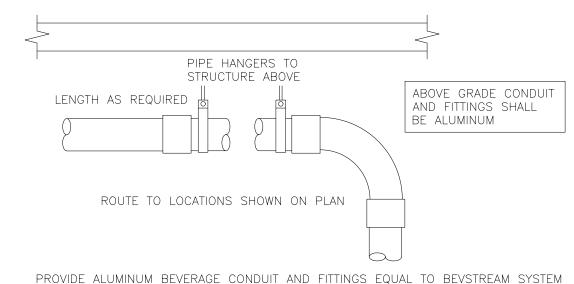


WALL CLEAN-OUT



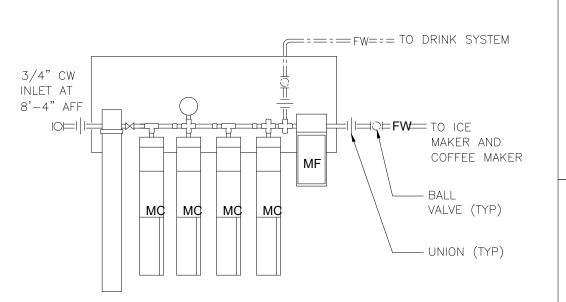
PROVIDE FIBERGLASS INSULATION WITH ALL—SERVICE JACKET WITH VAPOR BARRIER ON ALL COLD/HOT WATER PIPING AND CONDENSATE DRAIN PIPE. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION REGARDING INSULATION. INSTALL ALL ITEMS PER SPECIFICATIONS AND MANUFACTURERS INSTRUCTIONS. MAINTAIN VAPOR BARRIER ON COLD PIPING 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.

1 PIPE INSULATION NOT TO SCALE



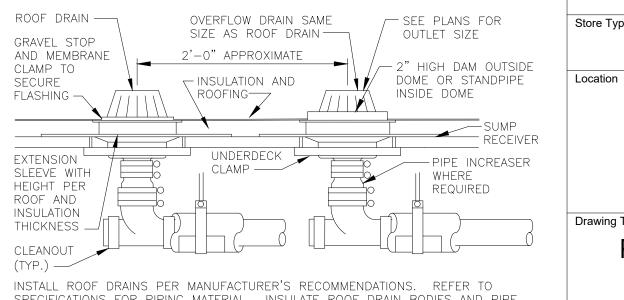
PROVIDE ALUMINUM BEVERAGE CONDUIT AND FITTINGS EQUAL TO BEVSTREAM SYSTEM (WWW.BEVSTREAM.COM). USE MINIMUM QUANTITY OF FITTINGS WITH LONG SWEEP ELBOWS AT BOTH ENDS WITH A MINIMUM RADIUS OF 30" ON 6" OR SMALLER AND 48" ON 8" OR LARGER. AVOID ELBOWS IN HORIZONTAL RUN IF AT ALL POSSIBLE. GENERAL CONTRACTOR SHALL SEAL ENDS OF CONDUIT WITH FOAM AFTER BEVERAGE LINES ARE INSTALL IN CONDUIT. COORDINATE WITH FOOD SERVICE DRAWING FOR EXACT SIZE AND LOCATION OF CONDUIT. CUT CONCRETE FLOOR SLAB, BACKFILL, REPAIR VAPOR BARRIER AND PATCH SLAB PER ARCHITECT'S REQUIREMENTS.

2 BEVERAGE CONDUIT - ABOVE SLAB



REFER TO KITCHEN EQUIPMENT DRAWINGS FOR FILTER REQUIREMENTS.

WATER FILTER



SPECIFICATIONS FOR PIPING MATERIAL. INSULATE ROOF DRAIN BODIES AND PIPE PER SPECIFICATIONS. LOCATE DRAINS WHERE SHOWN ON ARCHITECTURAL PLANS — VERIFY WITH STRUCTURAL PLANS FOR ROOF LOW POINTS. COORDINATE WITH ROOFING CONTRACTOR. REFER TO STRUCTURAL DRAWINGS AND COORDINATE THEREWITH IF REQUIRED FOR SUPPLEMENTARY STEEL AROUND ROOF OPENING. ARRANGEMENT SHOWN IS SCHEMATIC — ADJUST TO SUIT ACTUAL CONDITIONS.

ROOF DRAIN AND OVERFLOW
NOT TO SCALE

IIONS				
	REVISIONS			
	No.	Date	Description	
	1	8/01/2023	RESPONSE TO CITY	
TOC	2	9/04/2023	HEALTH COMMENTS	
.E	3	9/12/2023	RESPONSE TO CITY	
PIPE				
AILS				

ISSUE TABLE

Date

1	DRAWINGS REVISED AS PER DESIGN BULLETIN		
_	No.	Date	Description



Description

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US 2112 PROTOTYPE 2112-21

> 1517 NC 24-87 CAMERON, NC

PLUMBING DETAILS

n Checked
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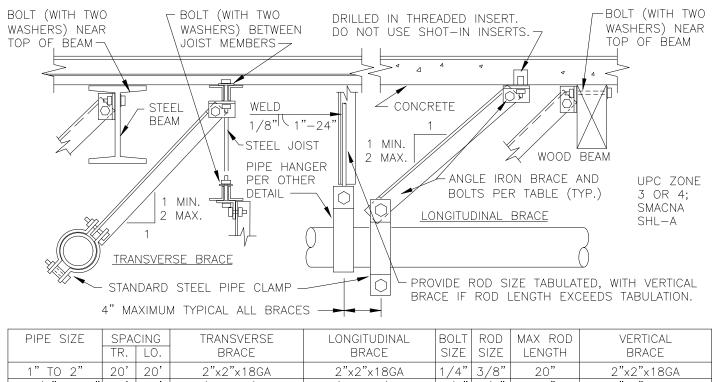
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 Scale
 Date

 JUNE 2023

 Project No.
 Drawing No.

 C22-129
 P4.1



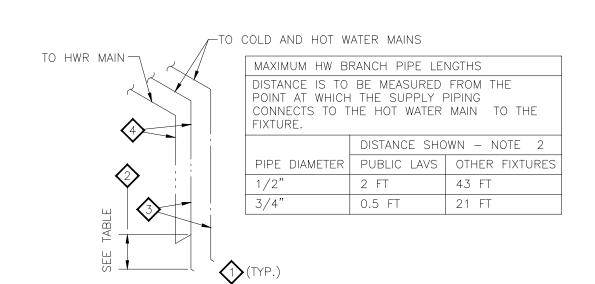
PIPE SIZE	SPACING		TRANSVERSE	LONGITUDINAL	BOLT	ROD	MAX ROD	VERTICAL
	TR.	LO.	BRACE	BRACE	SIZE	SIZE	LENGTH	BRACE
1" TO 2"	20'	20'	2"x2"x18GA	2"x2"x18GA	1/4"	3/8"	20"	2"x2"x18GA
2-1/2" TO 3"	40'	40'	2-1/2x2-1/2x16GA	2-1/2x2-1/2x16GA	3/8"	1/2"	25"	2"x2"x16GA
4" TO 5"	40'	40'	2-1/2x2-1/2x16GA	2-1/2x2-1/2x12GA	1/2"	5/8"	31"	2"x2"x16GA
6"	40'	40'	2-1/2x2-1/2x12GA	2-1/2x2-1/2x12GA	1/2"	3/4"	37"	2-1/2×2-1/2×16GA
8"	40'	40'	2-1/2x2-1/2x12GA	2-1/2x2-1/2x12GA	5/8"	7/8"	43"	2-1/2×2-1/2×12GA
10"	20'	20'	2-1/2x2-1/2x12GA	2-1/2x2-1/2x12GA	3/4"	7/8"	43"	2-1/2×2-1/2×12GA
12"	20'	20'	3"x3"x12GA	3"x3"x12GA	3/4"	7/8"	43"	2-1/2×2-1/2×12GA
14"	20'	20'	3"x3"x12GA	3"x3"x12GA	3/4"	1"	50"	2-1/2x2-1/2x12GA

DO NOT BRACE ANY PIPES WHERE TOP OF PIPE TO BOTTOM OF UPPER ATTACHMENT IS LESS THAN 12". BRACE GAS, OIL AND AIR PIPES 1" AND LARGER. BRACE ALL PIPES IN EQUIPMENT ROOMS 1-1/4" AND LARGER. BRACE ALL OTHER PIPE 2-1/2" AND LARGER. BRACE HUBLESS CAST IRON PIPE ON EACH SIDE OF ANY CHANGE IN DIRECTION OF 90 DEGREES OR MORE. MAXIMUM HANGER ROD LENGTH IS 6 FEET. WHERE LENGTH OF RUN EXCEEDS LONGITUDINAL BRACE SPACING, PROVIDE 2 FEET OFFSET IN PIPE AND LOCATE BRACE AT MID RUNS. REFER TO CURRENT EDITION OF SMACNA "SEISMIC RESTRAINT MANUAL" FOR ALTERNATIVE ATTACHMENTS AND ADDITIONAL INFORMATION AND REQUIREMENTS. (THIS DETAIL APPLIES IN THE ABSENCE OF OTHER LOCAL CODE REQUIREMENTS.)

1 3 SEISMIC BRACING FOR PIPE NOT TO SCALE

1 A NOT USED

TO FIXTURE.



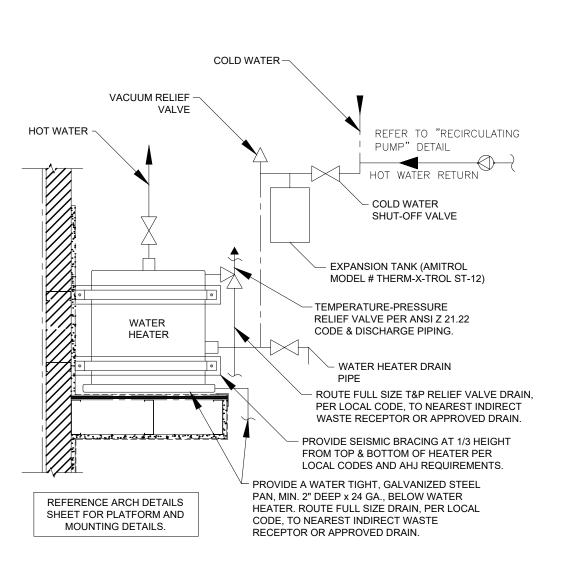
KEY NOTES

1. HOT WATER PIPING SHOWN ON FLOOR PLANS AND ISOMETRIC IS SHOWN FOR PLAN CLARITY. HOT WATER PIPING SHALL LOOP DOWN INTO WALL AS SHOWN.

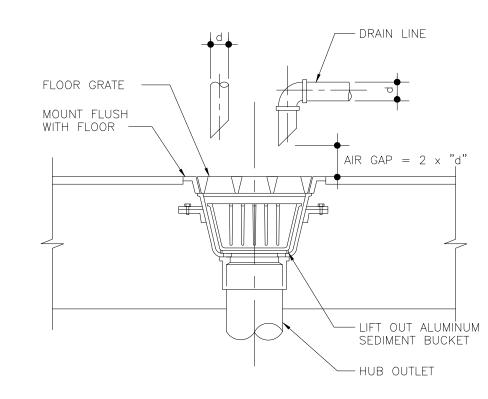
2. SEE TABLE FOR MAXIMUM ALLOWED DISTANCE OF PIPING FROM HOT WATER MAIN

3. PIPE SIZE TO FIXTURE PER PLANS.4. PIPE SIZE FOR HOT WATER DISTRIBUTION PIPING PER PLANS.

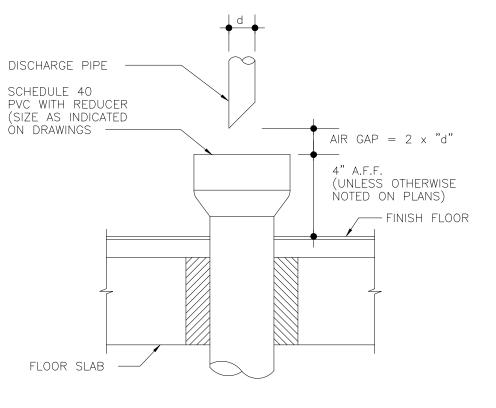
1 5 PUBLIC HANDWASHING RECIRC.



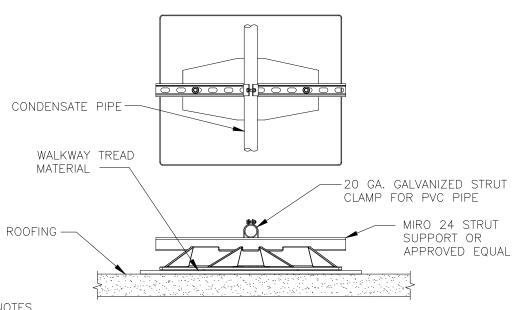
TANK ELECTRIC WATER HEATER



1 DEFLOOR SINK



1 1 HUB DRAIN NOT TO SCALE

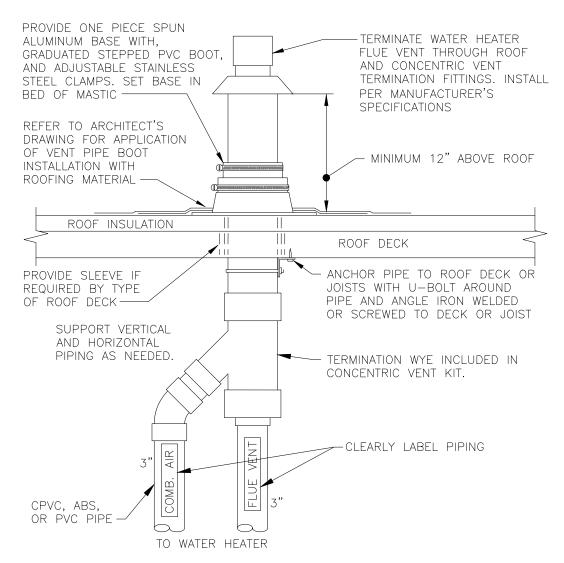


1. SUPPORT REQUIRED 10'-0" O.C. AND AT ALL CHANGES IN DIRECTION.

2. INCREASE IN HEIGHT AS REQUIRED FOR ROUTING ABOVE ROOF MOUNTED

1 2 ROOF CONDENSATE PIPE SUPPORT

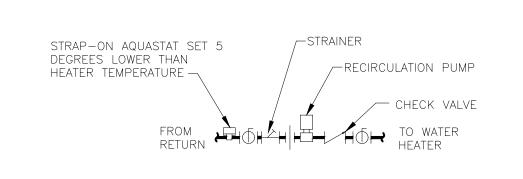
ACCESSORIES SUCH AS EXPANSION JOINTS AND TO ACCOMMODATE SLOPE.



REFER TO PLANS FOR WATER HEATER FLUE VENT PIPE SIZES AND LOCATIONS.

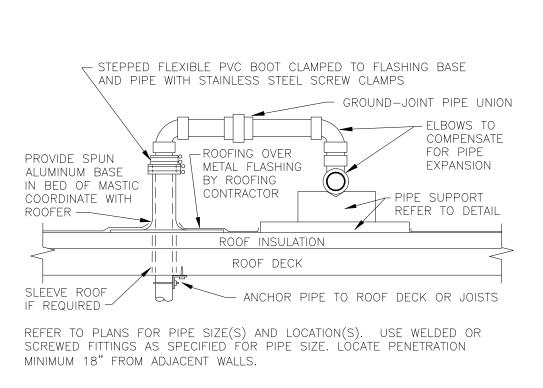
LOCATE CONCENTRIC VENT A MINIMUM OF 10 FEET HORIZONTAL (UNLESS APPROVED BY ENGINEER PRIOR TO INSTALLATION) AND ONE FOOT FROM ANY VERTICAL SURFACE. VERIFY FLASHING AND COUNTERFLASHING WITH ROOFING CONTRACTOR.



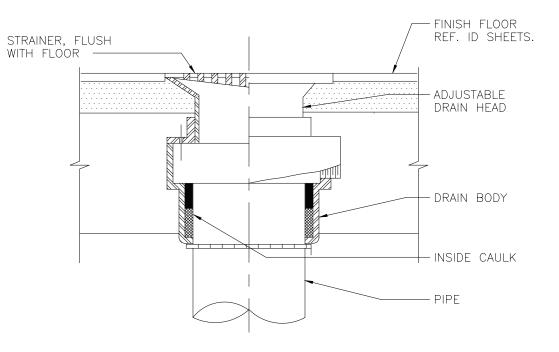


PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. REFER TO WATER HEATER DETAIL FOR MORE INFORMATION.

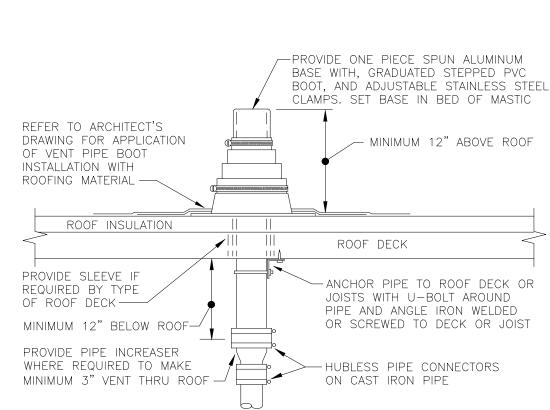
RECIRCULATION PUMP NOT TO SCALE



7 ROOF PENETRATION NOT TO SCALE



FLOOR DRAIN
NOT TO SCALE

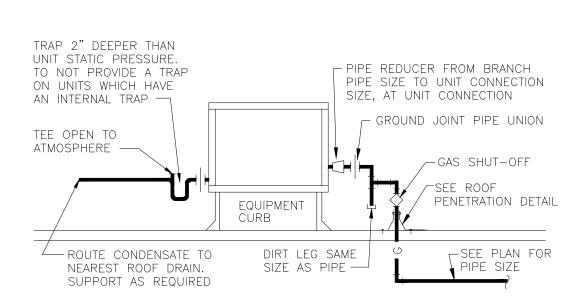


REFER TO PLANS FOR VTR PIPE SIZES AND LOCATIONS. LOCATE VTR A MINIMUM OF 20 FEET HORIZONTAL (UNLESS APPROVED BY ENGINEER PRIOR TO INSTALLATION) OR THREE FEET VERTICAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE, AND ONE FOOT FROM ANY VERTICAL SURFACE. PROVIDE 1" FIBERGLASS INSULATION WITH ALL—SERVICE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



NOT USED

NOT USED



PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST AS REQUIRED TO SUIT ACTUAL

A ROOFTOP UNIT CONNECTIONS
NOT TO SCALE

No.	Date (mm/dd/yy)	Description
REVIS	IONS	
No.	Date	Description
1	8/01/2023	RESPONSE TO CITY
2	9/04/2023	HEALTH COMMENTS
3	9/12/2023	RESPONSE TO CITY

ISSUE TABLE

No.	Date	Description



PROJECT NORTH

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us 2112 PROTOTYPE 2112-21

1517 NC 24-87 CAMERON, NC

ving Title

PLUMBING DETAILS

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Date

JUNE 2023

Project No.

C22-129

P4.2

GENERAL PROVISIONS

- WORK INCLUDES MODIFICATION TO EXISTING PLUMBING SYSTEM AND PROVIDING NEW MATERIALS, FITTINGS AND ACCESSORIES NECESSARY FOR A COMPLETE FUNCTIONING PLUMBING SYSTEM. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES AND/OR ORDINANCES AND IS SUBJECT
- 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 THE DRAWINGS IS TO INDICATE GENERAL EXTENT OF WORK REQUIRED FOR THE PROJECT DRAWINGS FOR PLUMBING WORK ARE DIAGRAMMATIC, SHOWING 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 AND COMPLY WITH ALL APPLICABLE ADA INSTALLATION REQUIREMENTS.
- COORDINATE WITH WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS AND WITH THE CONSTRAINTS OF EXISTING CONDITIONS OF THE PROJECT SITE.
- ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED. IS TO PROVIDE POWER WIRING FOR EACH ITEM OF ELECTRICAL EQUIPMENT AND MAKE FINAL CONNECTIONS TO MOTORS.
- ALL FINISH PAINTING IS TO BE PERFORMED BY GENERAL CONTRACTOR, EXCEPT AS NOTED ELSEWHERE. CONTRACTOR SHALL RESTORE TO ORIGINAL CONDITION ANY PAINTING DEFACED BY CONTRACTOR AFTER ORIGINAL PAINTING.
- G. ALL WORK SHALL CONFORM TO CODES, RULES, AND REGULATIONS:
- STATE PLUMBING CODE. LOCAL BUILDING CODE.
- NATIONAL FIRE PROTECTION ASSOCIATION.
- CERTAIN CODES AND STANDARDS AS SET UP BY VARIOUS TECHNICAL SOCIETIES SUCH AS ASME, ASHRAE, ASTM, SMACNA, ARI. AABC. OR IEEE.
- FEDERAL OCCUPATIONAL SAFETY AND HEALTH STANDARDS. 6. LOCAL INSPECTOR'S REQUIREMENTS.
- STATE INDUSTRIAL COMMISSION REQUIREMENTS. 8. BUILDING INSURING AGENCY REQUIREMENTS.

AND OTHER EXPENSES IN CONNECTION THEREWITH.

- ALL PERMITS REQUIRED BY LAWS, ORDINANCES AND BUILDING CODES HAVING JURISDICTION SHALL BE OBTAINED AT THE PROPER TIME BY
- AND AT THE EXPENSE OF THIS CONTRACTOR. THIS CONTRACTOR SHALL OBTAIN ALL INSPECTIONS REQUIRED BY ALL LAWS, ORDINANCES AND PUBLIC AUTHORITY HAVING JURISDICTION AND SHALL OBTAIN CERTIFICATES OF SUCH INSPECTIONS AND SUBMIT SAME

TO THE ARCHITECT AND SHALL PAY ALL FEES, CHARGES, ASSESSMENTS

- PIPING AND EQUIPMENT LAYOUT IS SCHEMATIC. EXACT LOCATIONS ARE DETERMINED BY STRUCTURAL AND OTHER CONDITIONS. DESIGN OF SYSTEM MAY NOT BE CHANGED. ONLY EXACT LOCATION OF PIPING MAY BE REVISED TO SUIT CONSTRUCTION CONDITIONS AND AID IN COORDINATION WITH WORK OF OTHER CONTRACTORS.
- MATERIALS AND EQUIPMENT INSTALLED IN THE WORK SHALL MEET REQUIREMENTS OF THE CONTRACT DOCUMENTS AND NO MATERIALS OR EQUIPMENT SHALL BE ORDERED UNTIL REVIEWED BY ENGINEER AND/ OR ARCHITECT.
- THIS CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PER DOCUMENTS PROVIDED BY THE OWNER/ARCHITECT/CONTRACTOR.
- EXPANSION TANK DRAINS AND CLEANOUTS
- VALVES ALL PLUMBING FIXTURES, FAUCETS AND FITTINGS
- WATER HEATER PIPE INSULATION 7. GREASE INTERCEPTOR
- K. CATALOG DATA FOR EQUIPMENT REVIEWED BY THE ARCHITECT SHALL THE ENGINEER SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR DEVIATIONS FROM DRAWINGS OR SPECIFICATIONS, PROVIDING PROPER CLEARANCE FABRICATION PROCESS AND COORDINATION WITH OTHER TRADES.
- WHEN SUBMITTED FOR ARCHITECT'S REVIEW, SHOP DRAWINGS SHALL BEAR THE CONTRACTOR'S CERTIFICATION THAT:
- SHOP DRAWINGS HAVE BEEN REVIEWED, CHECKED, AND APPROVED. CONTRACTOR'S WORK IS IN HARMONY WITH THE REQUIREMENTS OF THE PROJECT AND WITH THE PROVISIONS OF THE CONTRACT
- DOCUMENTS 3. CONTRACTOR HAS VERIFIED ALL FIELD MEASUREMENTS AND CONSTRUCTION CRITERIA. MATERIALS, CATALOG NUMBERS AND SIMILAR DATA
- M. CONTRACTOR SHALL ALSO CERTIFY THAT THE WORK REPRESENTED BY THE SHOP DRAWINGS IS RECOMMENDED BY THE CONTRACTOR AND THE CONTRACTOR'S GUARANTEE WILL FULLY APPLY.
- ALL CONTRACTORS SUBMITTING PROPOSALS FOR THIS WORK SHALL FIRST EXAMINE SITE AND ALL CONDITIONS THEREIN. ALL PROPOSALS SHALL TAKE INTO CONSIDERATION ALL SUCH CONDITIONS AS MAY AFFECT THE WORK UNDER THIS CONTRACT. THE SUBMITTING OF A BID AUTOMATICALLY IMPLIES THAT THIS EXAMINATION OF SITE HAS BEEN
- CONTRACTOR SHALL VERIFY LOCATION OF UTILITIES AND NOTE CONDITIONS WHICH WOULD AFFECT THE WORK. ALL DISCREPANCIES SHALL THEN BE REPORTED PRIOR TO THE BID AWARD.
- PROVIDE INSTRUCTION TO OWNER'S OPERATING PERSONNEL AS NECESSARY, SHOWING LOCATIONS AND PROPER OPERATION OF MAJOR ITEMS OF EQUIPMENT AND SYSTEM COMPONENTS AND REFERRING TO THE OPERATING INSTRUCTION MANUAL DESCRIBED BELOW AS A GUIDE.
- COMPILE A WRITTEN MANUAL OF OPERATING INSTRUCTIONS INCLUDING COPIES OF SHOP DRAWINGS AND A LISTING OF EQUIPMENT SUPPLIERS. ASSEMBLE IN 8-1/2" X 11" HARD BACKED INDEXED BINDER. MATERIAL SHALL BE AS FOLLOWS:
- 1. TITLE PAGE: TITLE OF JOB, TENANT, ADDRESS, DATE OF SUBMISSION, CONTRACTOR AND ENGINEER.
- 3. ST OF MAJOR EQUIPMENT USED IN PROJECT ACCOMPANIED BY CONTRACTOR PURCHASE ORDER NUMBERS AND SUPPLIERS NAMES AND ADDRESSES. 4. ONE COPY OF EACH SHOP DRAWING GROUPED BY TYPES OF
- EQUIPMENT, I.E., PLUMBING FIXTURES, VALVES, ETC. 5. SECTION FOR EACH SYSTEM INCLUDING A BRIEF DESCRIPTION OF SYSTEM OPERATION WITH LOCATION OF MAJOR COMPONENTS AND A LIST OF ITEMS IN SYSTEM REQUIRING PERIODIC SERVICE.
- R. SUBMIT A COMPLETED COPY TITLED "PLUMBING OPERATING INSTRUCTION MANUAL" ON BINDING EDGE OF BINDER TO ARCHITECT FOR APPROVAL. AFTER ARCHITECT'S REVIEW AND ANY CORRECTIONS REQUIRED ARE COMPLETED, SUBMIT A COPY OF MANUAL, TO OWNER.

FIRESTOPPING

- EACH CONTRACTOR SHALL BE RESPONSIBLE FOR FIRESTOPPING AROUND ALL OPENINGS FOR PIPES, DUCTS, CONDUITS ETC., INSTALLED BY CONTRACTOR AT ALL FIRE WALLS. FIRESTOPPING SHALL BE PERFORMED BY AN INSTALLER WHO HAS BEEN TRAINED BY MANUFACTURER. OR MANUFACTURER'S REPRESENTATIVE, IN THE INSTALLATION PROCEDURES BASED ON PUBLISHED UL TESTED FIRE STOP SYSTEMS.
- FIRESTOPPING SHALL MEET THE REQUIREMENTS OF ASTM E-814 OR UL 1479 FIRE TESTS BY A RECOGNIZED TESTING AGENCY. FIRESTOPPING SHALL ALSO CONFORM TO GOVERNING CODES AS FOLLOWS: INTERNATIONAL BUILDING CODE, NFPA 101- LIFE SAFETY CODE & NFPA 70 - NATIONAL ELECTRIC CODE.

- C. PENETRATION
- 1. CLEAN PENETRATION HOLES OF DIRT, LOOSE MATERIALS AND FOREIGN MATTER WHICH MAY AFFECT BOND OR INSTALLATION.
- 2. REMOVE COATINGS SUCH AS PAINT, CURING COMPOUNDS, WATER REPELLENT & SEALERS AS REQUIRED.
- 3. INSTALL BACKING MATERIALS TO PREVENT LIQUID MATERIAL LEAKAGE.

D. APPLICATION

- 1. PREPARE AND APPLY PENETRATION SEALING SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS.
- 2. EMPLOY INSTALLATION TECHNIQUES WHICH WILL ENSURE THAT FIRESTOPPING IS DEPOSITED TO FILL AND SEAL HOLES AND
- 3. TOOL EXPOSED SURFACES OF APPLIED SEALANT TO SMOOTH FINISH.
- 4. PROTECT MATERIALS FROM DAMAGE ON SURFACES SUBJECTED TO
- E. PROVIDE INTUMESCENT SEALANTS AND COLLARS AT OPENINGS INVOLVING PLASTIC OR INSULATED PIPE SIMILAR TO METACAULK SERIES 880 AND
- F. FIRESTOPPING BY DOW CORNING, 3M, HILTI OR METACAULK MAY FURNISHED AT CONTRACTOR'S OPTION.

PIPE ANCHORS, HANGERS AND SUPPORTS

- A. ALL PIPING SHALL BE SEPARATELY HUNG AND SUPPORTED FROM APPROVED STRUCTURAL MEMBERS OR CONCRETE OVERHEAD STRUCTURE ONLY. NO PIPE SHALL BE HUNG FROM ROOF DECK, PIPE, DUCTS OR OTHER COMPONENTS OR EQUIPMENT OF OTHER TRADES.
- B. PROVIDE LISTED/APPROVED ADJUSTABLE HANGERS, INSERTS, BRACKETS, CLAMPS, SUPPLEMENTARY STEEL AND OTHER DEVICES REQUIRED FOR PROPER SUPPORT OF ALL PIPE LINES.
- C. HANGERS SHALL BE DESIGNED TO ALLOW FOR EXPANSION AND CONTRACTION AND TO ALLOW INSULATION (WHERE APPLICABLE) TO RUN CONTINUOUSLY THROUGH HANGERS.
- D. WIRE OR STRAP HANGERS ARE NOT PERMITTED. ADJUST HANGERS SO AS TO DISTRIBUTE WEIGHT LOAD EQUALLY ON ATTACHMENTS. PLUMBING SYSTEM TESTING
- A. SYSTEM TESTING SHALL BE PROVIDED AS FOLLOWS:
- 1. ALL SYSTEMS SHALL BE TESTED PRIOR TO BEING CONCEALED BY ADDITIONAL WORK, FLOOR SLABS, WALLS, OR MECHANICAL
- 2. FURNISH ALL PUMPS FOR AIR AND WATER PRESSURE TESTS ALONG WITH GAUGES AND ANY OTHER REQUIRED TEST EQUIPMENT.
- 3. TEST SANITARY DRAINAGE AND VENT SYSTEM BY FILLING WITH WATER WITH ALL POINTS IN THE SYSTEM BEING SUBJECT TO PRESSURE OF AT LEAST 10' OF WATER. WATER LEVEL SHALL REMAIN STATIONARY FOR A PERIOD OF ONE HOUR, WITHOUT ANY PIPE OR JOINT LEAKAGE. IF TESTING INDICATES DEFICIENCIES, REPLACE OR REPAIR AS REQUIRED AND REPEAT TEST UNTIL STANDARDS ARE ACHIEVED.
- 4. TEST WATER SYSTEM UNDER 150 PSIG HYDROSTATIC PRESSURE, FOR FOUR (4) HOURS MINIMUM. WHEN TESTING INDICATES MATERIALS OR WORKMANSHIP IS DEFICIENT, REPLACE OR REPAIR AS REQUIRED, AND REPEAT TEST UNTIL STANDARDS ARE ACHIEVED.
- B. REPAIR ANY LEAKING JOINTS AND DEMONSTRATE ACCEPTABLE LEAKAGE TO SATISFACTION OF OWNER'S REPRESENTATIVE AND APPROVING AUTHORITY. FLUSH ALL PIPING BEFORE PLACING INTO OPERATION.

STERILIZATION

- A. STERILIZE NEW DOMESTIC WATER LINES AFTER INSTALLATION.
- B. FURNISH A CERTIFICATE OF STERILIZATION AND APPROVAL FOR HUMAN CONSUMPTION TO BE SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THIS STATE, REGULARLY EMPLOYED BY TESTING LABORATORY. CERTIFICATE MUST BE GIVEN TO THE ARCHITECT AND OWNER BEFORE FINAL PAYMENT WILL BE MADE.
- STERILIZATION SHALL BE BY MEANS OF CHLORINE INJECTED INTO WATER SYSTEM NEAR THE SOURCE AND OUTLETS THROUGHOUT THE SYSTEM SHALL BE TESTED TO PROVE PRESENCE OF MINIMUM REQUIREMENTS. LEAVE CHLORINE IN FOR 24 HOURS AND FLUSH OUT SYSTEM UPON COMPLETION OF WORK. STERILIZATION PROCEDURE SHALL BE WITNESSED BY THE OWNER'S REPRESENTATIVE.
- STERILIZATION SHALL BE PERFORMED UNDER THE IMMEDIATE SUPERVISION OF A WATER TESTING LABORATORY REGULARLY ENGAGED IN THE SERVICE AND SHALL BE DONE ACCORDING TO THEIR INSTRUCTIONS. IDENTIFICATION FOR PLUMBING PIPING AND EQUIPMENT
- A. STENCILS, LABELS, TAGS, AND COLOR CODES SHALL CONFORM TO ANSI
- B. PRODUCTS SHALL BE SETON. EQUAL PRODUCTS BY BRADY MAY BE FURNISHED AT CONTRACTOR'S OPTION.
- C. STENCILS FOR EQUIPMENT SHALL BE REUSABLE AND HAVE 1" HIGH CHARACTERS. CHARACTERS SHALL BE PAINTED WHITE OVER A BLACK BACKGROUND. STENCIL ONLY AFTER FINAL PAINTING IS COMPLETE. CHARACTERS SHALL BE LEGIBLE FROM FLOOR. APPLY CLEAR ACRYLIC, LACQUER, OR VARNISH OVER FINISHED STENCIL.
- D. FOR PIPING PROVIDE ANSI STANDARD COLOR FLEXIBLE VINYL LABELS WITH PERMANENT PRESSURE SENSITIVE ADHESIVE BACK. LABEL SHALL BE OF SUFFICIENT LENGTH TO ENCIRCLE PIPE (AND INSULATION WHEN APPLICABLE) AND OVERLAP ON ITSELF. EACH LABEL SHALL HAVE AT LEAST ONE FLOW DIRECTION ARROW AND SHALL BE PERMANENTLY LABELED WITH PIPE CONTENT.
- E. SYSTEM PIPING TO LABELED SHALL INCLUDE THE FOLLOWING: SANITARY WASTE AND VENT (ABOVE GRADE ONLY) STORM AND OVERFLOW PIPING (ABOVE GRADE ONLY)
- 3. DOMESTIC WATER (INCLUDING COLD, HOT, RECIRCULATING, FILTERED, AND REVERSE OSMOSIS) 4. NATURAL GAS
- 5. USED COOKING OIL
- F. DOMESTIC WATER PIPING SHALL BE LABELED ON EXTERIOR OF INSULATION IN ACCORDANCE WITH ANSI A13.
- PIPING, VALVES, DRAINS, CONTROL PANELS AND SIMILAR EQUIPMENT SHALL BE IDENTIFIED AS TO FUNCTION AND SYSTEM NUMBER AS DIRECTED BY THE OWNER'S REPRESENTATIVE AND AS LISTED BELOW:
 - IDENTIFICATION ITEM : TYPE PIPING : STENCIL OR PIPE LABEL

PIPING SPECIALTY : TAG

H. IDENTIFY PIPE LINES WITH STENCIL OR PIPE LABEL WITH COLOR CODED BANDS AT THE FOLLOWING LOCATIONS:

WATER HEATER AND OTHER EQUIPMENT : STENCIL

- 1. AT EQUIPMENT CONNECTION AT EACH VALVE.
- 2. AT BOTH SIDES OF WALLS THROUGH WHICH PIPE PASSES.

3. AT EVERY 20 FT. INTERVAL ON CONTINUOUS PIPE LINES.

- 4. AT EACH BRANCH CONNECTION.

- 5. SHOW FLOW DIRECTION ARROWS AT EACH IDENTIFICATION POINT. INSULATION
- A. PIPE INSULATION AND APPURTENANCES AND COVERINGS ON PIPES USED IN CHASES, SHAFTS OR OTHER CONCEALED SPACES IN TYPES 1 AND 2 CONSTRUCTION SHALL HAVE A FLAME SPREAD RATING NOT EXCEEDING TWENTY-FIVE (25) AND IN TYPE 3 AND 4 CONSTRUCTION NOT EXCEEDING SEVENTY-FIVE (75) AND A SMOKE DEVELOPED RATING NOT EXCEEDING FIFTY (50).
- INSULATION SHALL BE 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 A MINIMUM
- C. PROVIDE INSULATION THICKNESS AS INDICATED:
 - DOMESTIC COLD WATER PIPING 1" AND SMALLER: 1/2" THICK DOMESTIC COLD WATER PIPING 1-1/4" - 1-1/2": 3/4" THICK DOMESTIC COLD WATER 2" AND LARGER: 1" THICK DOMESTIC HOT WATER PIPING 3/4" AND SMALLER: 1" THICK DOMESTIC HOT WATER PIPING 1" - 1 - 1/2: 1 - 1/2" THICK PLUMBING VENT PIPING WITHIN 6 FEET OF ROOF OUTLET: 1" THICK CONDENSATE PIPING: 1/2" THICK USED COOKING OIL: 1" THICK STORM DRAIN PIPING: 1" THICK
- OVERFLOW STORM DRAIN PIPING: 1" THICK D. GLUE IN PLACE WITH SCHULLER U-GLUE.
- THE FITTINGS SHALL BE INSULATED WITH SCHULLER ZESTON INSULATION AND HAVE FACTORY PRE-MOLDED PVC COVERS. BUTT JOINTS TOGETHER AND WRAP WITH 3" WIDE STRIP TAPE, SEAL IN PLACE WITH SCHULLER U-GLUE.
- F. INSULATION SHALL NOT BE APPLIED UNTIL THE GENERAL CONSTRUCTION HAS PROGRESSED SUFFICIENTLY TO INSURE AGAINST PHYSICAL OR MOISTURE DAMAGE TO THE INSULATION. ALL INSULATION DAMAGED THROUGH FAILURE TO OBSERVE THIS DIRECTIVE SHALL BE REPLACED AT PLUMBING CONTRACTOR'S EXPENSE.
- INSTALL ALL INSULATION ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- H. INSULATION SHALL NOT BE APPLIED OVER FLANGES, JOINTS AND SEAMS
- INSULATION SHALL BE SCHULLER. EQUAL PRODUCT BY ARMSTRONG, CERTAINTEED, OWENS-CORNING OR KNAUF MAY BE FURNISHED AT THE CONTRACTOR'S OPTION.
- J. PROVIDE INSULATION FOR WATER AND WASTE PIPING BELOW HANDICAP LAVATORIES/SINKS AS FOLLOWS:

PROVIDE TRUBRO "LAVGUARD 2" ADA TRAP AND SUPPLY PROTECTION OR EQUAL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

PLUMBING BASIC MATERIALS AND METHODS

- A. PIPING SYSTEMS GENERAL: ALL PIPING SHALL BE RUN PARALLEL TO BUILDING LINES AND SUPPORTED AND ANCHORED AS REQUIRED TO FACILITATE EXPANSION AND CONTRACTION. ALL PIPING SHALL BE CONCEALED EXCEPT IN UNFINISHED SPACES. INSTALL AS REQUIRED TO MEET ALL CONSTRUCTION CONDITIONS AND TO ALLOW FOR INSTALLATION OF OTHER WORK SUCH AS DUCTS AND ELECTRICAL CONDUIT. AT ALL CONNECTIONS BETWEEN FERROUS PIPING AND NONFERROUS PIPING PROVIDE AN ISOLATING DIELECTRIC UNION. ALL HANGERS SHALL BE COMPATIBLE WITH PIPING MATERIAL TO PREVENT CORROSION.
- PROVIDE ALL FITTINGS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE THE PLUMBING SYSTEM'S FUNCTIONING AS
- FIXTURES/EQUIPMENT FURNISHED BY OTHERS: PLUMBING CONTRACTOR SHALL PROVIDE UTILITY CONNECTIONS REQUIRED SUCH AS WATER, GAS, SUPPLIES, WASTE OUTLET AND TRAPS AT ALL PLUMBING FIXTURES OR EQUIPMENT FURNISHED BY OWNER, GENERAL CONTRACTOR, AND EQUIPMENT SUPPLIER. INCLUDED ARE STOP VALVES, ESCUTCHEONS, AND CHROME PLATED BRASS TUBING WITH COMPRESSION FITTINGS. THIS CONTRACTOR IS TO BECOME INFORMED OF THE EXACT DIMENSIONS OF FINISHED WORK WHERE PIPES ARE TO BE PLACED AND SHALL ARRANGE THE WORK ACCORDINGLY, ASSUMING ALL RESPONSIBILITY FOR PROPER LOCATION. MAINS SHALL BE ERECTED WITH SPECIAL CARE TO PROVIDE SUPPORT AND PROPER ALLOWANCES FOR EXPANSION.
- ALL PIPE LINES MUST BE PROVIDED WITH A SUFFICIENT NUMBER OF FITTINGS OR UNIONS TO MAKE POSSIBLE DISASSEMBLY WITHOUT BREAKAGE OF FITTINGS.
- E. ALL EXPOSED PIPING SHALL BE NEAT AND CAREFULLY ALIGNED WITH THE STRUCTURAL ELEMENTS OF THE BUILDING.
- F. DRAWINGS ARE DIAGRAMMATIC AND SHOULD NOT BE USED FOR LAYOUT WORK.
- ALL LOW POINTS IN WATER PIPING SHALL HAVE DRAIN VALVES WITH STANDARD HOSE ATTACHMENTS. HOT AND COLD WATER PIPING SHALL PITCH TOWARD NEAREST DRAIN VALVE.

DISTANCE FROM WALLS, OTHER PIPES, CONDUIT, DUCTWORK AND OTHER

OBSTACLES TO AVOID INTERFERENCE AND TO PERMIT THE APPLICATION OF FULL THICKNESS OF INSULATION SPECIFIED. MECHANICAL JOINT TYPE PIPING SHALL BE INSTALLED PER

H. ALL PIPES TO BE INSTALLED SHALL BE LOCATED AT SUFFICIENT

ASHCROFT, MARSHALLTOWN, AND WEISS ARE ACCEPTABLE. ACCESS PANELS SHALL BE PROVIDED WHERE CONCEALED CONTROL DEVICES AND VALVES ARE CONCEALED WITHIN WALLS. WHERE ACCESS FOR ADJUSTMENT AND MAINTENANCE IS POSSIBLE THROUGH LAY-IN

SUSPENDED CEILINGS ACCESS PANELS ARE NOT REQUIRED.

MANUFACTURER'S RECOMMENDATIONS. THERMOMETERS BY TRERICE,

K. SHUTOFF VALVES WITH UNIONS SHALL BE PROVIDED FOR SERVICE TO EACH PLUMBING FIXTURE, OR OTHER EQUIPMENT ITEMS TO FACILITATE ISOLATION FOR REPAIR OR REPLACEMENT. PIPE LINE VALVES SHALL BE EQUAL TO CRANE SERIES #9202, QUARTER TURN BALL VALVE. CONSTRUCTION - TWO PIECE, BRONZE BODY, FULL PORTED, CHROME PLATED BRASS BALL, REPLACEABLE "TEFLON OR TFE" SEATS AND SEALS. RATING - 150 PSI WSP, 600 PSI WOG. CONNECTIONS -SOLDER OR THREADED ENDS TO MATCH PIPING. STANDARDS COMPLIANCE - BRONZE OR BRASS VALVES: MSS-SP-110. WHEN SHUTOFF VALVE ARE PLACE IN THE CEILING THE VALVES WILL BE LOCATED AT A MAXIMUM OF 12" ABOVE THE CEILING, AND NOTHING SHALL BE PLACE BETWEEN THE CEILING ACCESS AND THE VALVES.

A. SANITARY WASTE AND VENT PIPING SHALL BE PROVIDED AS FOLLOWS: 1. PROVIDE ALL SANITARY DRAINS AND PIPING WITHIN THE PROJECT

SPACE WITH CONNECTION TO EXISTING DRAINAGE SYSTEMS

- 2. SANITARY DRAINAGE PIPING ABOVE FLOOR SHALL BE ABS/PVC PLASTIC PIPE, WITH SOLVENT WELD FITTINGS, OR HUBLESS CAST-IRON PIPE AND FITTINGS AND CONNECTIONS. SANITARY DRAINAGE PIPING BELOW GRADE SHALL BE ABS/PVC PLASTIC PIPE WITH SOLVENT WELD FITTINGS. OR SERVICE-WEIGHT HUB AND SPIGOT TYPE CAST-IRON WITH NEOPRENE GASKET JOINT SYSTEM.
- 3. ALL SANITARY WASTE PIPING SHALL BE UNIFORMLY PITCHED AT 1/4" PER FOOT FOR PIPE SIZES 3" AND SMALLER, 1/8" PER FOOT FOR PIPE SIZES 4"-6", AND 1/16" PER FOOT FOR PIPE SIZES 8" OR LARGER UNLESS OTHERWISE REQUIRED BY EXISTING

- CONDITIONS, OR INDICATED ON DRAWINGS. GREASE LADEN WASTE LINES AND SAND/OIL WASTE LINES SHALL BE INSTALLED AT NO LESS THAN AT 1/4" PER FOOT FALL.
- 4. SANITARY VENT PIPING: PROVIDE A COMPLETE SYSTEM OF ABS/PVC PLASTIC PIPE, WITH SOLVENT WELD FITTINGS, OR STANDARD WEIGHT CAST IRON NO-HUB PIPE AND FITTINGS. THE VENT SYSTEM SHALL BE CARRIED THROUGH THE ROOF WITH APPROPRIATE FLASHING.
- 5. CLEANOUTS: PROVIDE CLEANOUTS AT THE END OF EACH HORIZONTAL RUN, AND AT THE BASE OF ALL VERTICAL STORM, WASTE AND DRAIN PIPES. CLEANOUTS SHALL BE OF SAME SIZE AS THE 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.
- B. HOT AND COLD WATER PIPING SHALL BE PROVIDED AS FOLLOWS: 1. LAYOUT WATER PIPING SO THAT ENTIRE SYSTEM CAN BE DRAINED.
- 2. TYPE "L" HARD COPPER TUBE WITH SOLDER FITTINGS: COPPER TUBING SHALL HAVE SWEAT JOINTS AND BE CLEAN OF SCALE AND FOREIGN MATTER BEFORE INSTALLATION. ALL ENDS OF TUBING TO BE SWEATED SHALL BE REAMED, CLEANED AND BURNISHED TO REMOVE DIRT AND OXIDE. HARD 95-5 LEAD-FREE SOLDER SHALL BE USED AND APPLIED TO THE JOINTS ACCORDING TO STANDARD PRACTICE AND/OR MANUFACTURER'S RECOMMENDATIONS. COMPRESSION STOPS AND BRAIDED SUPPLIES SHALL BE USED AT CONNECTION TO EQUIPMENT.
- 3. PEX-A TUBING WITH ASTM F1960 FITTINGS: PEX TUBING SHALL BE SUPPORTED WITH ADDITIONAL PEX-A PIPE CHANNEL PER MANUFACTURER'S RECOMMENDATIONS. PEX PIPING SHALL BE TERMINATED AT FIXTURES WITH PRE-MANUFACTURED COPPER STUB-OUTS. COMPRESSION STOPS, AND BRAIDED SUPPLIES SHALL BE USED AT CONNECTION TO EQUIPMENT. PROVIDE RED TUBING FOR HOT WATER, BLUE TUBING FOR COLD WATER, AND WHITE/TRANSLUCENT TUBING FOR ALL OTHER DOMESTIC WATER.
- 4. EACH HOT AND COLD WATER BRANCH SHALL BE PROVIDED WITH A BALL VALVE SHUT-OFF.
- C. CONDENSATE PIPING SHALL BE PROVIDED AS FOLLOWS: 1. TYPE M COPPER TUBING UP TO 1" ID, TYPE DWV COPPER TUBING
- AND FITTINGS FOR 1-1/4" AND LARGER SIZES. 2. HEAT TRACE ALL CONDENSATE DRAIN LINES INSIDE COOLERS AND
- D. STORM AND OVERFLOW PIPING SHALL BE PROVIDED AS FOLLOWS: 1. PROVIDE ALL STORM DRAINS AND PIPING WITHIN THE PROJECT

FREEZERS AT 5 WATTS/LINEAR FOOT (MINIMUM).

- SPACE WITH CONNECTION TO EXISTING STORM DRAINAGE SYSTEMS ON-SITE. 2. STORM DRAINAGE PIPING ABOVE FLOOR SHALL BE ABS/PVC PLASTIC PIPE, WITH SOLVENT WELD FITTINGS, OR HUBLESS CAST-IRON PIPE AND FITTINGS AND CONNECTIONS. STORM DRAINAGE PIPING BELOW GRADE SHALL BE ABS/PVC PLASTIC PIPE
- SPIGOT TYPE CAST-IRON WITH NEOPRENE GASKET JOINT SYSTEM. 3. ALL STORM PIPING SHALL BE UNIFORMLY PITCHED AT 1/4" PER FOOT FOR PIPE SIZES 3" AND SMALLER, 1/8" PER FOOT FOR PIPE SIZES 4"-6", AND 1/16" PER FOOT FOR PIPE SIZES 8" OR LARGER UNLESS OTHERWISE REQUIRED BY EXISTING CONDITIONS,

WITH SOLVENT WELD FITTINGS, OR SERVICE-WEIGHT HUB AND

GAS PIPING

- A. PROVIDE A COMPLETE GAS PIPING SYSTEM TO SERVE GAS FIRED HVAC EQUIPMENT, DOMESTIC WATER HEATERS AND EQUIPMENT FURNISHED BY OTHERS, AS NOTED ON DRAWINGS.
- C. NATURAL GAS PIPING SHALL BE AS FOLLOWS:

OR INDICATED ON DRAWINGS.

- 1. ASTM A-53 SCHEDULE 40 STEEL PIPE PAINTED WITH YELLOW ANTI-CORROSIVE PAINT. SCREWED OR WELDED IN ACCORDANCE WITH CODE REQUIREMENT (FITTINGS FOR LINES LARGER THAN 2' SHALL BE WELDED STEEL. FITTINGS FOR LINES 2" AND SMALLER, EXCEPT WHEN LOCATED IN AIR PLENUMS, SHALL BE SCREWED. STANDARD WEIGHT BLACK MALLEABLE).
- PROVIDE ALL UNIONS, SHUT-OFF VALVES AND DIRT LEGS REQUIRED BY NFPA-54 AND GOVERNING LOCAL CODES AND AT EACH GAS APPLIANCE CONNECTION.
- E. PROVIDE ALL TESTS, METERS, INSPECTIONS, HANGERS AND EQUIPMENT CONNECTIONS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM.
- F. PAINT ALL GAS PIPING EXPOSED TO WEATHER WITH ONE COAT OF PRIMER, AND TWO COATS OF RUST-PROOF PAINT. COLOR OF PIPE ON ROOF SHALL BE YELLOW. COORDINATE COLOR OF PIPE ON EXTERIOR OF BUILDING WITH GC TO MATCH BUILDING COLORS.
- G. GAS COCKS 1-1/2" AND SMALLER SHALL BE ALL BRONZE, SCREWED, FLAT HEAD, BRASS PLUG AND WASHER 200 LB. NOG. PROVIDE LINE SIZE 6" LONG DIRT LEG DOWN STREAM OF GAS COCK AT ALL EQUIPMENT CONNECTIONS.
- H. NO VALVES ARE TO BE LOCATED IN AIR PLENUMS. I. PROVIDE GAS PIPE SUPPORTS IN ACCORDANCE WITH CODE
- REQUIREMENTS.
- PLUMBING PIPING SPECIALTIES USED COOKING OIL A. ASTM A-53 SCHEDULE 40 STEEL PIPE THREADED AND SCREWED OR

PROVIDE A PIPE ESCUTCHEON AT WALL.

B. PROVIDE UNION AT ALL EQUIPMENT CONNECTIONS.

C. PROVIDE PIPE SUPPORTS AND STANDOFF HANGERS IN ACCORDANCE

WELDED WITH STANDARD WEIGHT BLACK MALLEABLE FITTINGS.

WITH CODE REQUIREMENTS. D. EXTERIOR UCO PIPING WITH INSULATION TO EXTERIOR TANK REQUIRES A STAINLESS STEEL INSULATION JACKET WITH ALL JOINTS AND SEAMS SEALED WATER TIGHT USING WATERPROOF UV RESISTANT CLEAR SEALANT (3M CLEAR HYBRID 730 UV OR EQUAL RATED TO 194 DEGREE F) WITH THE ENDS COVERED TO PREVENT WATER INTRUSION AND SEAL.

WATER HEATER

A. ELECTRIC WATER HEATERS:

R-VALUE OF 10.

- 1. PROVIDE WATER HEATER, SIZE, LOCATION AND CAPACITY AND MANUFACTURER AS INDICATED ON DRAWINGS.
- 2. TANK TYPE ELECTRIC WATER HEATER WITH GLASS-LINED TANK RATED AT 150 PSI WORKING PRESSURE, MAGNESIUM ANODE PROTECTION, BRONZE DRAIN VALVE, HIGH TEMPERATURE CUT-OFF SWITCH AND IMMERSION THERMOSTAT. TANK TO HAVE A MINIMUM
- 3. FURNISH AND INSTALL A WATTS NO. 40L, 3/4" TEMPERATURE AND PRESSURE RELIEF VALVE AND EXTEND DISCHARGE PIPE, FULL SIZE, TO WITHIN 6" ABOVE MOP SINK OR FLOOR DRAIN.
- 4. PROVIDE POTABLE WATER EXPANSION TANK AS SPECIFIED. EQUAL PRODUCTS BY WATTS, AMTROL, OR BELL & GOSSETT MAY BE PROVIDED AT THE CONTRACTOR'S OPTION.
- B. FUEL FIRED INSTANTANEOUS WATER HEATERS
- 1. PROVIDE HIGH EFFICIENCY GAS FIRED, INSTANTANEOUS WATER HEATERS. SIZE, LOCATION AND CAPACITY SHALL BE AS AS INDICATED ON THE DRAWINGS.

- 2. FACTORY-INSTALLED TEMPERATURE AND PRESSURE RELIEF VALVE. EXTEND DISCHARGE PIPE, FULL SIZE, TO WITHIN 6" ABOVE THE MOP SINK OR FLOOR DRAIN.
- PRODUCTS BY WATTS, AMTROL, OR BELL & GOSSETT MAY BE

PLUMBING FIXTURES AND EQUIPMENT

- A. WATER CLOSETS AND LAVATORIES SHALL BE VITREOUS CHINA AND SHALL ALL BE BY SAME MANUFACTURER.
- B. INSTALLATION: THOROUGHLY CLEAN ITEMS BEFORE INSTALLATION. CAP 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
- C. ALL WALL HUNG LAVATORIES, FLUSH VALVES, ETC., SHALL BE PER DRAWINGS AND MOUNTED AT THE MANUFACTURER'S RECOMMENDED ROUGHING IN MEASUREMENTS, UNLESS NOTED OTHERWISE.
- D. GREASE INTERCEPTOR SHALL BE AS SPECIFIED ON DRAWINGS.

E. VALVES TO BE AS FOLLOWS:

- 2. GATE (2-1/2" AND SMALLER) ALL BRONZE, SCREWED, TAPERED. SOLID WEDGE DISC, SCREWED BONNET, RISING STEM.
- 3. BALL (2-1/2" AND SMALLER) ALL BRONZE, TEFLON STEM
- 4. GLOBE (2-1/2" AND SMALLER) ALL BRONZE, SCREWED,
- 5. CHECK (2-1/2" AND SMALLER) ALL BRONZE, SCREWED, HORIZONTAL SWING CHECK WITH BRONZE DISC.
- F. VALVES SHALL BE MILWAUKEE. EQUAL PRODUCTS BY CRANE, HAMMOND, POWELL, WALWORTH, NORTHERN INDIANA BRASS COMPANY OR STOCKHAM MAY BE FURNISHED AT CONTRACTOR'S OPTION.

- END TYPE BY CHASE. EQUAL PRODUCTS BY CRANE, MUELLER OR NORTHERN INDIANA BRASS COMPANY MAY BE FURNISHED AT CONTRACTOR'S OPTION.
- 2. DIELECTRIC UNIONS BETWEEN FERROUS AND COPPER SHALL BE MANUFACTURED BY CAPITAL MANUFACTURING COMPANY OF
- FLOOR TYPE TO BE ADJUSTABLE CAST IRON WITH NICKEL BRONZE TOP. TOP TO BE FLUSH WITH FLOOR. SEE DRAWINGS FOR
- 2. WALL TYPE TO BE CAST IRON TEE WITH ROUND POLISHED STAINLESS STEEL ACCESS COVER AND THREADED PLUG. SEE DRAWINGS FOR MODEL AND MANUFACTURER.

- 3. PROVIDE POTABLE WATER EXPANSION TANK AS SPECIFIED. EQUAL

PROVIDED AT THE CONTRACTOR'S OPTION.

- PIPE OPENINGS TO EXCLUDE DIRT UNTIL FIXTURES ARE INSTALLED AND

- 125 LB. S.W.P. GATE, GLOBE AND CHECK VALVES:
- SEALS AND SEAT, 1/4 TURN SHUT-OFF, VINYL COVERED HANDLES.
- TAPERED, SOLID WEDGE DISC, SCREWED BONNET, RISING STEM.
- G. UNIONS TO BE AS FOLLOWS:
- 1. UNIONS FOR COPPER PIPE TO BE 150LB., ALL BRONZE, SOLDER
- INSULATED TO PREVENT METAL-TO-METAL CONTACT AND SHALL BE COLUMBUS, OHIO. EQUAL PRODUCTS BY PATROL OR PECO SALES COMPANY.
- E. CLEANOUTS TO BE AS FOLLOWS:

F. FLOOR DRAINS TO BE AS FOLLOWS:

- MODEL AND MANUFACTURER.
- 1. CAST IRON BODY SHALLOW SUMP DRAIN WITH DOUBLE DRAINAGE FLANGE AND WEEPHOLES, FLASHING CLAMP, BOTTOM OUTLET WITH NEOPRENE GASKET INSIDE CONNECTOR, 6" DIAMETER ADJUSTABLE GRATE. FRAME AND GRATE TO HAVE POLISHED NICKEL-BRONZE FINISH. SEE DRAWINGS FOR MODEL AND MANUFACTURER. EQUAL

PRODUCT MAY BE SUPPLIED AT THE CONTRACTOR'S OPTION.

REVISIONS No. Description

Description

ISSUE TABLE

Date

8/01/2023 RESPONSE TO CITY 2 9/04/2023 HEALTH COMMENTS 3 9/12/2023 RESPONSE TO CITY

DRAWINGS REVISED AS PER DESIGN BULLETIN				
No.	Date	Description		



PROJECT NORTH

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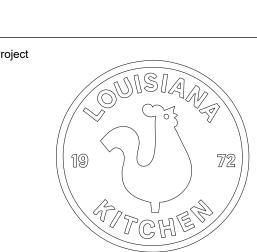




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US 2112 PROTOTYPE

PLUMBING

Checked ΑH JUNE 2023 Project No. Drawing No. C22-129 PS1.1

1517 NC 24-87 CAMERON, NC

2112-21

A-4: VIEW OF DRIVE-THRU MENU BOARD STROBE BEHIND MENU BOARD. SHOWN THIS SET. A-5: VIEW OF DRIVE-THRU AREA M.B.A. SOUNDER WILL SOUND WHEN BACK DOOR IS OPENED. F. REFER TO EQUIPMENT SPECIFICATIONS FOR DATA AND POWER MANAGER WILL SILENCE ST SOUNDER AT KEYPAD REQUIREMENTS AND LOCATIONS OF ALL MENU BOARDS AND SIGNS. C. INDOOR CAMERAS AFTER 1ST TONE C.A. INDOOR CEILING MOUNT IN TINTED DOME M.C. MOTION DETECTOR-AP 669 PIR-360 MOTION MOUNT IN G. VERIFY MOUNTING HEIGHTS OF ALL RECEPTACLES WITH EQUIPMENT C.B. FASTEN SCREW IN CEILING FOR DOMES SO NOT EASILY STOVE AREA. SUPPLIED PRIOR TO INSTALLATION. DROPPED OUT OF TILE M.C.A. N.A. MOTION DETECTOR RADIUS TO INCLUDE DRIVE-UP C.C. CAMERA ORIENTATIONS: WINDOW AREA AND GENERAL REAR AREA. H. ALL EQUIPMENT ELECTRICAL OUTLETS ARE DIMENSIONED TO CENTERLINE B-1: VIEW OF SIDE CUSTOMER ENTRANCE, AND SALES OF BOX FROM ABOVE FINISHED FLOOR. COUNTER N. LOBBY/PERIMETER AREA/BACK OF HOUSE ELECTRICAL CONTRACTOR TO PROVIDE CORD & PLUG CONNECTIONS FOR B-2 : VIEW SALES COUNTER AND RESTROOM AREA N.A. KEYPAD EQUIPMENT AS REQUIRED. B-3 : VIEW SALES COUNTER & SAFE AREA N.A.A. MOUNT 40" AFF WALL ENTERING KITCHEN AREA FROM B-4 : VIEW FRONT CUSTOMER ENTRANCE AND ALL 120V, 20A OUTLETS IN THE FOOD PREP AREA SHALL BE GROUND RESTROOM AREA N.B. FG 1025 GLASS BREAK FAULT INTERRUPT TYPE. B-5 : VIEW OF SAFE AND SALES AREA N.B.A. GLASS BREAK FOR LOBBY GLAZING. PROVIDE ONE ON B-6 : VIEW OF BACK ENTRANCE EACH SIDE OF BUILDING. COORDINATE EXACT DEVICE K. BEFORE PHONE IS INSTALLED THE FOLLOWING NEED TO BE IN PLACE -B-7 : VIEW OF PREP ARFA LOCATION AND INSTALLATION. CONDUIT AND PULL STRING AND BACK BOARD (GROUNDED) ON FIRE B-8 : VIEW OF OFFICE AREA N.C. B4039 DOOR CONTACT RETARDANT WALL. B-9 : VIEW OF COOK LINE N.C.A. PROVIDE FOR ALL EXTERIOR DOORS. BACK DOOR L. KVS 3 ON BACK LINE NEEDS TO BE A POLE MOUNT. CONTACT TO ACT AS ALARM POINT FOR REAR "OPEN B-10: VIEW OF KITCHEN B-11: VIEW OF WALK-IN BOX AND STORAGE AREA DOOR" ALARM. SOUNDER AND BLUE STROBE TO M. PROVIDE "UP" OUTLET AT ROOFTOP EQUIPMENT. ACTIVATE WHEN BACK DOOR IS OPEN. D. OFFICE AREA N.D. 3050CT SERIES HOLD-UP PANIC BUTTON N. ROUTE ALL CONDUIT ROOF PENETRATIONS OUTSIDE OF CURB. DO NOT N.D.A. LATCHING HUB IN COOLER/FREEZER. MOUNT 18" AFF D.A. BAC- BURGLAR ALARM CONTROL-VISTA 20SEUL PENETRATE BOTTOM OF RTU UNITS AND EXHAUST FAN CURBS. D.B. D-VCR ON HINGE SIDE OF DOOR SUB UP IN CONDUIT D.C. E-VCR: N.E. POINT OF CONNECTION TO NKL SAFE D.D. F-MONITOR: N.E.A. PIGTAIL PROVIDED BY NKL SAFE LOW VOLTAGE GENERAL NOTES O. POPEYES ADD ON MODIFICATION NAMES AND PHONE NUMBERS E. QUICK REFERENCE SHEETS E.A. ALARM INSTRUCTION SHEET TO BE MOUNTED ON WALL IN O.A. INSTALLER PLEASE CONTACT POPEYES CONSTRUCTION A. ALL P.O.S. (POINT OF SALE) CIRCUITS SHALL HAVE AN ISOLATED EMPLOYEE ONLY AREA CLOSEST TO KEYPAD OR IN OFFICE MANAGER FOR ANY ADD-ONS OR MODIFICATIONS TO YOUR GROUND WIRE BACK TO THE PANEL. ALL P.O.S. EQUIPMENT SHALL BE WIRED INDEPENDENTLY OF ANY NON-P.O.S. EQUIPMENT. JOB. THEY WILL CONTACT THE NATIONAL ACCOUNT AREA PER CUSTOMER INSTRUCTION MANAGER FOR APPROVALS/PAPERWORK. B. ALL RECEPTACLES FOR P.O.S. EQUIPMENT SHALL BE ISOLATED GROUND F. FOR LOCATIONS WITH 6 OR MORE CAMERAS: ADD MULTIPLEXER WITH SURGE SUPPRESSOR TYPE. ALL RECEPTACLES FOR P.O.S. EQUIPMENT SHALL BE SINGLE UNIT, UNLESS A DUPLEX RECEPTACLE G. LTC 2641/60-PLACE ON SECURITY LOCK FOR NO TAMPER CAN BE USED TO SUPPLY TWO P.O.S. UNITS. DUPLEX RECEPTACLES MAY BE USED IN THE MANAGER'S OFFICE FOR NON-P.O.S. EQUIPMENT H. FOR LOCATIONS WITH 4 CAMERAS OR LESS: (COMPUTER, MUSIC, FIRE ALARM, SECURITY, ETC.). C. ALL CIRCUITS FOR P.O.S EQUIPMENT SHALL BE CONNECTED TO THE SAME PHASE OF POWER IN THE PANEL. ALL BRANCH CIRCUIT BREAKERS SUPPLYING P.O.S. EQUIPMENT SHALL HAVE LOCKING HANDLE DEVICES. D. EACH RECEPTACLE TYPE (LOCKING OR STRAIGHT BLADE) SHALL MATCH THAT OF THE EQUIPMENT FURNISHED. WHERE P.O.S. EQUIPMENT IS FURNISHED WITHOUT A PLUG THE RECEPTACLE SHALL BE LOCKING TYPE. COORDINATE RECEPTACLE TYPES WITH THE P.O.S. EQUIPMENT SECURITY INSTALLATION ACCEPTANCE FORM/ CHECKLIST FOR INSTALL SITE MODIFICATIONS (SUCH AS DEVICE PLACEMENT B-3: VIEW SALES COUNTER & SAFE AREA CHANGES FROM DRAWINGS), CUSTOMER MUST INITIAL BELOW TO YES_____N/A____MODIFY PER SITE_____ SHOW APPROVAL OF SITE MODIFICATION. B-4: VIEW BACK DOOR & COOLER/FREEZER AREA A-CAMERA: FOR LOCATIONS WITH OUTDOOR CAMERAS YES____N/A____MODIFY PER SITE_____ OUTDOOR POLE MOUNT 15' ABOVE FINISHED PAVEMENT B-5: 360 VIEW YES_____N/A____MODIFY PER SITE_____ YES____N/A____MODIFY PER SITE_____ GROUND ISOLATION TRANSFORMERS OFFICE AREA D-VCR LOCK BOX: TC3922 SERIES YES____N/A____MODIFY PER SITE_____ ADT TO RUN CONDUIT INSIDE LIGHT POLES-EC TO RUN CONDUIT YES_____N/A____MODIFY PER SITE_____ FROM RESTAURANT TO BASE OF LIGHT POLE & MOUNT JUNCTION BOX 15' ABOVE FINISHED PAVEMENT ON POLE E-VCR: LTC 3924 SERIES PLACE ON SECURITY LOCK FOR NO YES_____N/A____MODIFY PER SITE_____ YES_____N/A____MODIFY PER SITE_____ A-1; VIEW DRIVE-UP AND SIDE DOOR QUICK REFERENCE SHEETS YES____N/A____MODIFY PER SITE_____ ALARM INSTRUCTION SHEET TO BE MOUNTED ON WALL IN EMPLOYEE A-2: VIEW BACK DOOR, MENU BOARD & REAR AREA ONLY AREA CLOSEST TO KEYPAD OR IN OFFICE AREA PER CUSTOMER INSTRUCTION YES_____N/A____MODIFY PER SITE_____ NKL SAFE YES_____N/A____MODIFY PER SITE_____ A-3: VIEW SIDE DOOR AREA OPPOSITE SIDE OF BUILDING FROM VCR INSTRUCTION SHEET(2) 1-REVIEW & 1-RECORD-TO BE DRIVE-THRU MOUNTED ON WALL CLOSEST TO VCR YES_____N/A____MODIFY PER SITE_____ YES____N/A____MODIFY PER SITE_____ B-CAMERA: FOR LOCATIONS WITH INDOOR CAMERAS INDOOR CEILING FOR LOCATIONS WITH 6 OR MORE CAMERAS: ADD MULTIPLEXER MOUNT IN TINTED DOME LTC 2641/60-PLACE ON SECURITY LOCK FOR NO TAMPER YES____N/A____MODIFY PER SITE_____ FASTEN SCREW IN CEILING FOR DOMES SO NOT EASILY DROPPED YES____N/A____MODIFY PER SITE_____ OUT OF TILE FOR LOCATIONS WITH 4 CAMERAS OR LESS: YES_____N/A____MODIFY PER SITE_____ ADD VIDQUAD 4 CHANNEL LTC 2272/60 B-1: VIEW FRONT DOORS, RESTROOM AREA & SALES COUNTER YES____N/A____MODIFY PER SITE_____ YES____N/A____MODIFY PER SITE_____ HUB: HOLD UP BUTTON 441494 SERIES LATCHING HUB B-2: VIEW DRIVE-THRU REGISTER & WINDOW AREA rear area MANAGER AREA-36" AFF OUT OF SITE FROM FRONT COUNTER

YES____N/A____MODIFY PER SITE_____

I. ADD VIDQUAD 4 CHANNEL LTC 2272/60

M. FRYER/PREP AREA

MENU BOARD.

DOOR IS OPEN

J. HOLD UP BUTTON 441494 SERIES LATCHING HUB

K. MANAGER AREA-36" AFF OUT OF SITE FROM FRONT COUNTER

L. DRIVE-THRU WINDOW-18" AFF & OUT OF SITE FROM OUTSIDE

M.A. STROBE LIGHT-AS SL-401B-BLUE STROBE MOUNT BEHIND

M.A.A. STROBE LIGHT WILL FLASH CONTINUOUSLY WHILE BACK

M.B. SOUNDER-AS-PAL328N-LOW TONE SOUNDER MOUNT WITH

SECURITY INSTALLATION NOTES

B. OUTDOOR CAMERAS (WHERE PRESENT):

B.B. GROUND ISOLATION TRANSFORMERS

YES____N/A____MODIFY PER SITE_____

AND SIDE DOOR.

B.D. CAMERA ORIENTATIONS:

A. PROGRAMMING SEQUENCE SET-UP AT THE NCCC

B.A. OUTDOOR POLE MOUNT 15' ABOVE FINISHED PAVEMENT

B.C. SECURITY VENDOR TO RUN FLEX CONDUIT INSIDE LIGHT

A-2: VIEW OF FRONT ENTRY DOOR

A-3: VIEW OF SIDE ENTRY DOOR

POLES. EC TO RUN CONDUIT FROM RESTAURANT TO BASE

OF LIGHT POLE AND MOUNT JUNCTION BOX 15' ABOVE

FINISHED PAVEMENT ON POLE. ORIENT VIEW TO DRIVE-UP

A-1: VIEW BACK DOOR, MENU BOARD & REAR AREA

DRIVE-THRU WINDOW-18" AFF & OUT OF SITE FROM OUTSIDE YES____N/A____MODIFY PER SITE_____ LOBBY/PERIMETER AREA/BACK OF HOUSE KP: KEYPAD-MOUNT 40" AFF WALL ENTERING KITCHEN AREA FROM YES_____N/A____MODIFY PER SITE_____ GB: FG 1025 GLASS BREAK- LOBBY GLASS ONE EACH SIDE OF BUILDING SEE DRAWING FOR DEVICE PLACEMENT YES_____N/A____MODIFY PER SITE_____ C: B4039 CONTACT-ALL EXTERIOR DOORS YES_____N/A____MODIFY PER SITE_____ BACK DOOR CONTACT TO ACT AS ALARM POINT FOR BACK DOOR ALARM-24 HOUR LOCATION POINT-SOUNDER & BLUE STROBE TO ACTIVATE WHEN BACK DOOR IS OPEN YES_____N/A____MODIFY PER SITE_____ POC: POINT OF CONNECTION TO NKL SAFE-PIGTAIL PROVIDED BY YES_____N/A____MODIFY PER SITE_____ FRYER/PREP AREA SL: STROBE LIGHT-AS SL-401B-BLUE STROBE MOUNT BEHIND MENU BOARD, IT WILL FLASH CONTINUOUSLY WHILE BACK DOOR IS YES_____N/A____MODIFY PER SITE_____ S: SOUNDER-AS-PAL328N-LOW TONE SOUNDER MOUNT WITH STROBE BEHIND MENU BOARD, IT WILL SOUND WHEN BACK DOOR IS OPENED, MANAGER WILL TONE SILENCE SOUNDER AT KEYPAD YES_____N/A____MODIFY PER SITE_____ MD: MOTION DETECTOR-AP 669 PIR - 360 MOTION MOUNT IN STOVE AREA TO GET ARE FROM DRIVE-UP WINDOW AND GENERAL YES_____N/A____MODIFY PER SITE_____

POWER GENERAL NOTES

SENSORS PRIOR TO ROUGH-IN.

A. VERIFY EXACT LOCATIONS OF HVAC AND PLUMBING EQUIPMENT, CONDUIT

B. VERIFY EXACT LOCATION, MOUNTING HEIGHTS AND CONDUIT ROUTING FOR

ALL THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS AND CO2

ELECTRICAL REQUIREMENTS. COORDINATE PROVISIONS FOR CONTROL

MOTORS, ETC. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

. MOUNT DEVICES INSTALLED ON EQUIPMENT ON NON-REMOVABLE PANEL.

E. REFER TO FOOD SERVICE DRAWINGS SHEET K1 FOR TAG LOCATIONS NOT

C. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR ADDITIONAL

CONDUIT AND WIRING AS REQUIRED FOR INTERLOCKING OF FANS,

COORDINATE LOCATION PRIOR TO COMMENCING ROUGH-IN WORK.

STUB-UPS AND POWER CONNECTIONS PRIOR TO ROUGH-IN.

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. SWITCHBOARDS, PANELBOARDS, DISCONNECT SWITCHES, TRANSFORMERS 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 TÓ CONFORM TO ADOPTED ELECTRICAL CODE AND UL/CUL NO. 489 REQUIREMENTS.
- D. CONDUIT INSTALLED INDOORS SHALL BE ELECTRICAL METALLIC TUBING (EMT), MINIMUM 1/2" OR AS NOTED.
- E. CONDUIT INSTALLED BELOW SLAB SHALL BE RIGID STEEL, IMC, PVC OR HDPE, MINIMUM 3/4". IF PVC OR HDPE IS USED, TRANSITION TO RIGID STEEL BEFORE TURNING UP AND PENETRATING FLOOR SLAB.
- CONDUCTORS SHALL BE MINIMUM #12 THHN/THWN COPPER UNLESS NOTED OTHERWISE ON PLANS OR ÎN SPECIFICATIONS. BRANCH CIRCUITS SHALL BE PROVIDED WITH (2) #12 CONDUCTORS AND (1) #12
- EQUIPMENT GROUND CONDUCTOR UNLESS NOTED OTHERWISE. G. BRANCH CIRCUITS SHOWN WITH TWO GROUNDING CONDUCTORS SHALL HAVE ONE EQUIPMENT GROUND CONDUCTOR (GREEN) AND ONE ISOLATED GROUND CONDUCTOR (GREEN W/YELLOW STRIP) INSTALLED IN RACEWAY.

H. DIRECT CURRENT WIRING SHALL BE (2) #10 IN 1/2" CONDUIT UNLESS

- NOTED OTHERWISE. CONTROL VOLTAGE WIRING SHALL BE PLENUM RATED OR INSTALLED IN
- THERMOSTATS, TEMPERATURE SENSORS, CARBON DIOXIDE SENSORS AND HUMIDISTATS: UNLESS NOTED OTHERWISE. PROVIDE WALL BOX AT +3'-10" AFF WITH 1/2" CONDUIT STUBBED OUT TO ABOVE ACCESSIBLE CEILING WITH NYLON BUSHINGS AND PULLSTRING.
- 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.
- ALL EMPTY CONDUITS SHALL BE PROVIDED WITH A PULL WIRE.
- M. ALL RACEWAYS SHALL CONTAIN A GROUNDING ELECTRODE SIZED PER THE ADOPTED ELECTRICAL CODE.
- I. COORDINATE WORK ABOVE THE CEILING WITH OTHER TRADES TO PROVIDE THE GREATEST POSSIBLE CLEARANCE. CONDUIT RUNS SHALL BE RUN THROUGH TRUSSES WHERE POSSIBLE.
-). VERIFY EXACT PLACEMENT OF ALL DEVICES SHOWN ON CONSTRUCTION DOCUMENTS PRIOR TO FINAL PLACEMENT.
- . ALL RECESSED PANELBOARDS SHALL BE INSTALLED WITH MINIMUM OF (3) 3/4" CONDUITS STUBBED UP TO ACCESSIBLE CEILING SPACE FOR
- ALL PANELBOARDS, SWITCHBOARDS AND LINE VOLTAGE CONTROL EQUIPMENT SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTING, SERVICING OR MAINTENANCE OF EQUIPMENT. MARKING SHALL BE SELF ADHESIVE, COMMERCIAL LABEL CONFORMING TO ADOPTED CODES.
- 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

S. 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.

LIGHTING GENERAL NOTES

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

SECURITY SYSTEM GENERAL NOTES

- A. PROVIDE 120V CONNECTIONS TO THE FOLLOWING SYSTEMS: A.A. CCTV HEAD END EQUIPMENT
- A.B. BURGLAR ALARM PANEL & SYSTEM A.C. SECURITY SYSTEM (INCLUDING SECURITY CAMERAS)
- B. PROVIDE EXTERIOR TRENCHING AND CONDUIT WITH PULL STRINGS AS
- REQUIRED FOR OUTDOOR SECURITY CAMERA INSTALLATIONS. PROVIDE BACK BOX MOUNTED ON NEARBY SITE POLE OR BUILDING SURFACE WITH PROVISIONS FOR POWER AND LOW VOLTAGE (COAXIAL) CONNECTIONS.
- SECURITY VENDOR TO FURNISH ALL SECURITY EQUIPMENT AND LOW VOLTAGE CABLING. COORDINATE EXACT SCOPE OF INSTALLATION IN FIELD.
- D. SECURITY VENDOR TO SET UP, TEST, AND TRAIN RESTAURANT MANAGEMENT/ PERSONNEL ON CCTV AND BURGLAR ALARM SYSTEMS.
- E. CONFIRM EXACT QUANTITIES AND LOCATIONS OF ALL DEVICES PRIOR TO SECURITY EQUIPMENT ROUGH-IN WITH SECURITY VENDOR AND POPEYES CONSTRUCTION MANAGER.

ELECTRICAL	SYMBOLS	LEGENI

		ISSUE TABLE			
CTRICAI	_ SYMBOLS LEGEND	No.	Date (mm/dd/yy)	Description	
H 5 3 1	HOME RUN TO PANEL. CIRCUIT NUMBERS, PHASE, NEUTRAL AND GROUND CONDUCTORS INDICATED ALONG WITH ISOLATED GROUND CONDUCTOR IF APPLICABLE.				
	PARTIAL CIRCUIT				
1	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				
\$	SINGLE POLE SWITCH, +3'-10" OR AS NOTED				
\$ ³	THREE-WAY SWITCH, +3'-10" OR AS NOTED	REVIS	SIONS		
\$ ^{WP}	WEATHERPROOF TOGGLE SWITCH, +3'-10" OR AS NOTED	No.	Date	Description	
\$ ^K	KEYED SWITCH, +3'-10" OR AS NOTED	1	8/01/2023	RESPONSE TO CITY	
HOS	WALL MOUNTED OCCUPANCY SENSOR, +3'-10" OR AS NOTED	2	9/04/2023	HEALTH COMMENTS	
OS	CEILING MOUNTED OCCUPANCY SENSOR	3	9/12/2023	RESPONSE TO CITY	
HVS	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	DRAW	/INGS REVISED	AS PER DESIGN BULLETIN	
$\overline{\bigcirc}$	SIMPLEX RECEPTACLE, +18" OR AS NOTED	No.	Date	Description	
IG	ISOLATED GROUND SIMPLEX RECEPTACLE, +18" OR AS NOTED				
\Rightarrow	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	GROUND FAULT INTERRUPTING RECEPTACLE, +18" OR AS NOTED				
TR TR	TAMPER RESISTANT RECEPTACLE, +18" OR AS NOTED			N	
WP WP	WEATHERPROOF GROUND FAULT INTERRUPTING RECEPTACLE, +18" OR AS NOTED				
) 	RECEPTACLE INSTALLED HORIZONTALLY, BOTTOM AT +6" ABOVE COUNTER TOP			PROJECT NORTH	

RECEPTACLE INSTALLED FLUSH IN CEILING

JUNCTION BOX

MOTOR CONNECTION

 $\langle \mathsf{T} \rangle$

(T)(TS)(02)(H)

FCP

ISOLATED GROUND RECEPTACLE INSTALLED FLUSH IN CEILING

DISCONNECT SWITCH, TOP AT +6'-0" OR AS NOTED

CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR

DISCONNECT SWITCH PROVIDED WITH EQUIPMENT.

LIGHTING CONTACTOR, INSTALLED AS NOTED

PUSHBUTTON, TOP AT +4'-6'' OR AS NOTED

CONTROL TRANSFORMER, INSTALLED AS NOTED

DOOR BELL CHIME, +8'-0" OR AS NOTED

CONTROL OR POWER RELAY, INSTALLED AS NOTED

TIME CLOCK, +6'-2" OR AS NOTED

SPECIAL RECEPTACLE, NEMA STYLE AS NOTED, +18" OR AS NOTED

COMBINATION MOTOR STARTER/DISCONNECT SWITCH FURNISHED BY MECHANICAL

THERMOSTAT, TEMPERATURE SENSOR, CARBON DIOXIDE SENSOR AND HUMIDISTAT

ELECTRICALLY OPERATED DAMPER, PROVIDED BY MECHANICAL CONTRACTOR

DATA OUTLET. +6" ABOVE COUNTER WITH 3/4" CONDUIT TO ABOVE CEILING

FIRE ALARM HORN AND 75cd STROBE, +80" TO BOTTOM OF DEVICE PER ADA

AREA TYPE PHOTOELECTRIC SMOKE DETECTOR, CEILING MOUNTED, OR AS NOTED

DUCT TYPE PHOTOELECTRIC SMOKE DETECTOR WITH SAMPLING TUBES AND REMOTE

TELEPHONE/DATA OUTLET, +6" ABOVE COUNTER WITH 1" CONDUIT TO ABOVE CEILING

TELEPHONE/DATA OUTLET, +18" WITH 1" CONDUIT TO ABOVE CEILING

FIRE ALARM CONTROL PANEL, FLUSH MOUNTED, TOP AT +6'-0"

STROBE ONLY (75cd UNO), +80" TO BOTTOM OF DEVICE PER ADA

INDICATOR LIGHT MOUNTED FLUSH IN CEILING BELOW DETECTOR

SPRINKLER FLOW SWITCH, PROVIDED BY PLUMBING CONTRACTOR

SPRINKLER TAMPER SWITCH, PROVIDED BY PLUMBING CONTRACTOR

COMBINATION FIRE/SMOKE DAMPER PROVIDED BY MECHANICAL CONTRACTOR

FIRE SPRINKLER SYSTEM BELL (GONG), +10'-0" AFG

MANUAL FIRE ALARM PULL STATION, +3'-10" PER ADA

FIRE ALARM HORN AND 115cd STROBE, CEILING MOUNTED

STROBE ONLY (115cd UNO), CEILING MOUNTED

FIRE ALARM SYSTEM RELAY

ABOVE FINISHED FLOOR/GRADE

AUTHORITY HAVING JURISDICTION

BUILDING AUTOMATION SYSTEM

ELECTRICAL CONTRACTOR

GENERAL CONTRACTOR

PLUMBING CONTRACTOR

MECHANICAL CONTRACTOR

FIRE ALARM

NIGHT LIGHT

NON-FUSED

WEATHERPROOF

TYPICAL

PROVIDED BY MECHANICAL CONTRACTOR, +3'-10" OR AS NOTED

DATA OUTLET, +18" WITH 3/4" CONDUIT TO ABOVE CEILING

PROJECT NORTH

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9.13.2023

Company Logo

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9	DIMENSION GROUP
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10755 SANDHILL ROAD, DALLAS, TEXAS 75238

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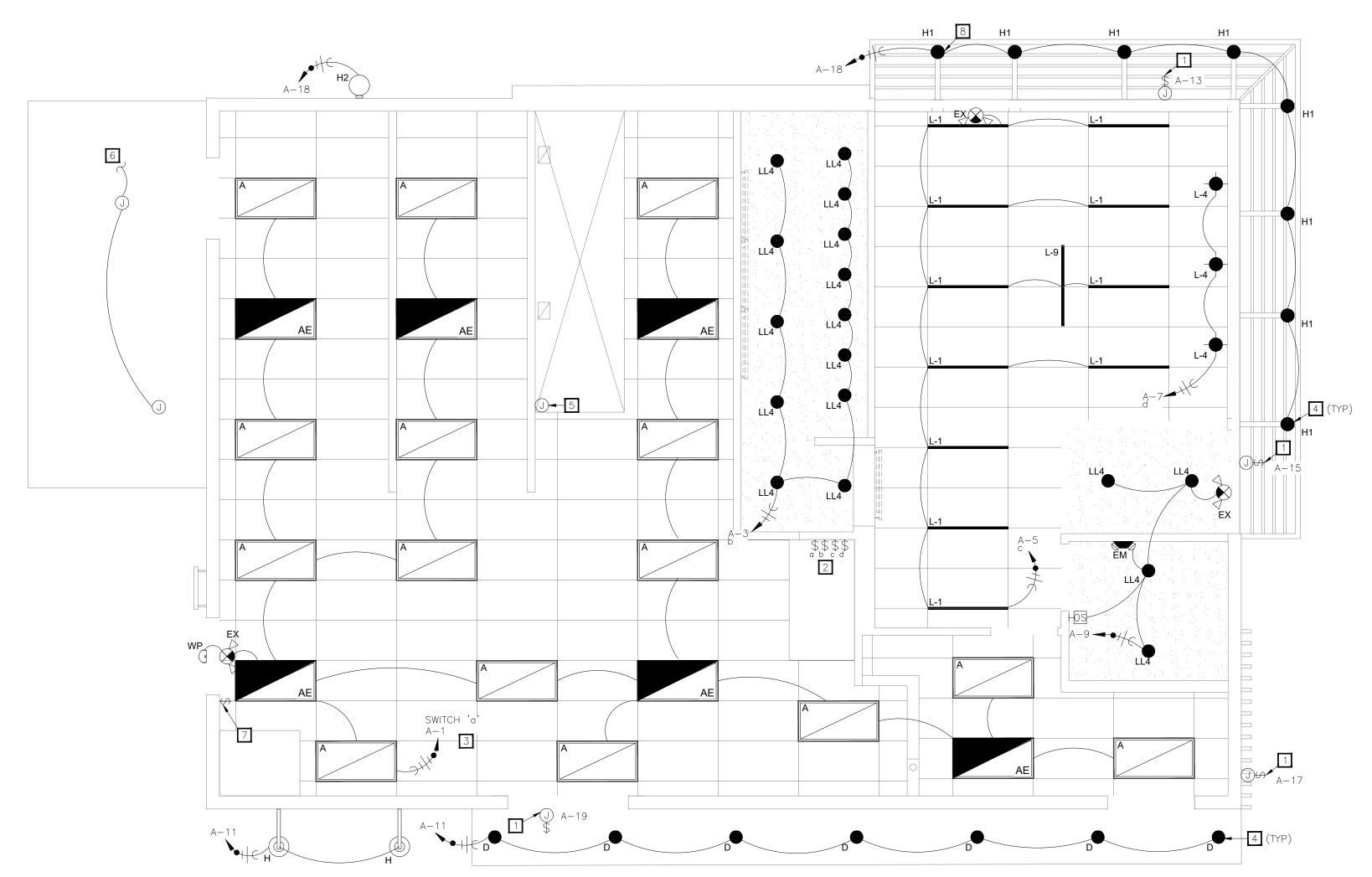
US 2112 PROTOTYPE 2112-21

> 1517 NC 24-87 CAMERON, NC

ELECTRICAL GENERAL NTOES AND LEGEND

Checked ΑH NOT TO SCALE JUNE 2023 Drawing No. C22-129

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



1/4"=1'-0"

ELECTRICAL KEYI	NOTE'S
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- PROVIDE WEATHERPROOF JUNCTION BOX AND TOGGLE TYPE 20A-1P DISCONNECT SWITCH IN AN ACCESSIBLE LOCATION FOR SIGNAGE. COORDINATE EXACT REQUIREMENTS WITH SIGN CONTRACTOR. VERIFY LOCATION PRIOR TO ROUGH-IN. CONNECTED TO TIMECLOCK.
- 2 LOCATION OF LIGHTING SWITCH BANK. REFER TO SWITCH BANK ELEVATION ON SHEET E3.1 FOR ADDITIONAL INFORMATION.
- RECIRCULATION PUMP WILL BE POWERED FROM KITCHEN LIGHTING CIRCUIT.
- 4 VERIFY ELECTRICAL CONNECTION REQUIREMENTS FOR CANOPY LIGHTING WITH CANOPY SUPPLIER AND EXTERIOR LIGHTING SPECIFICATIONS.
- JUNCTION BOX ON HOOD FOR CONNECTION TO PRE-WIRED HOOD LIGHTS. CONNECT TO KITCHEN LIGHTING CIRCUIT.
- 6 PROVIDE POWER TO WALK-IN-COOLER/FREEZER LIGHTING.
 7 TIME CLOCK OVERRIDE SWITCH.
- 8 FIXTURES IN ENTRANCE CANOPY TO BE WIRED THROUGH WOOD SUPPORT HOLDING PENDANT LIGHT. EACH FIXTURE TO HAVE JUNCTION BOX ON INTERIOR OF WALL.

NOTES TO ARCHITECT:

• FIXTURES IN THE KITCHEN HAVE REDUCED LUMEN OUTPUT/WATTAGE TO MEET COMCHECK.

	1	ISSUE TABLE					
		No.	Date (mm/dd/yy)	Description			
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		REVIS	IONS				
		No.	Date	Description			
		1	8/01/2023	RESPONSE TO CITY			
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2 9/04/2023

3 9/12/2023

DRAWINGS REVISED AS PER DESIGN BULLETIN				
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HEALTH COMMENTS

RESPONSE TO CITY



PROJECT NORTH

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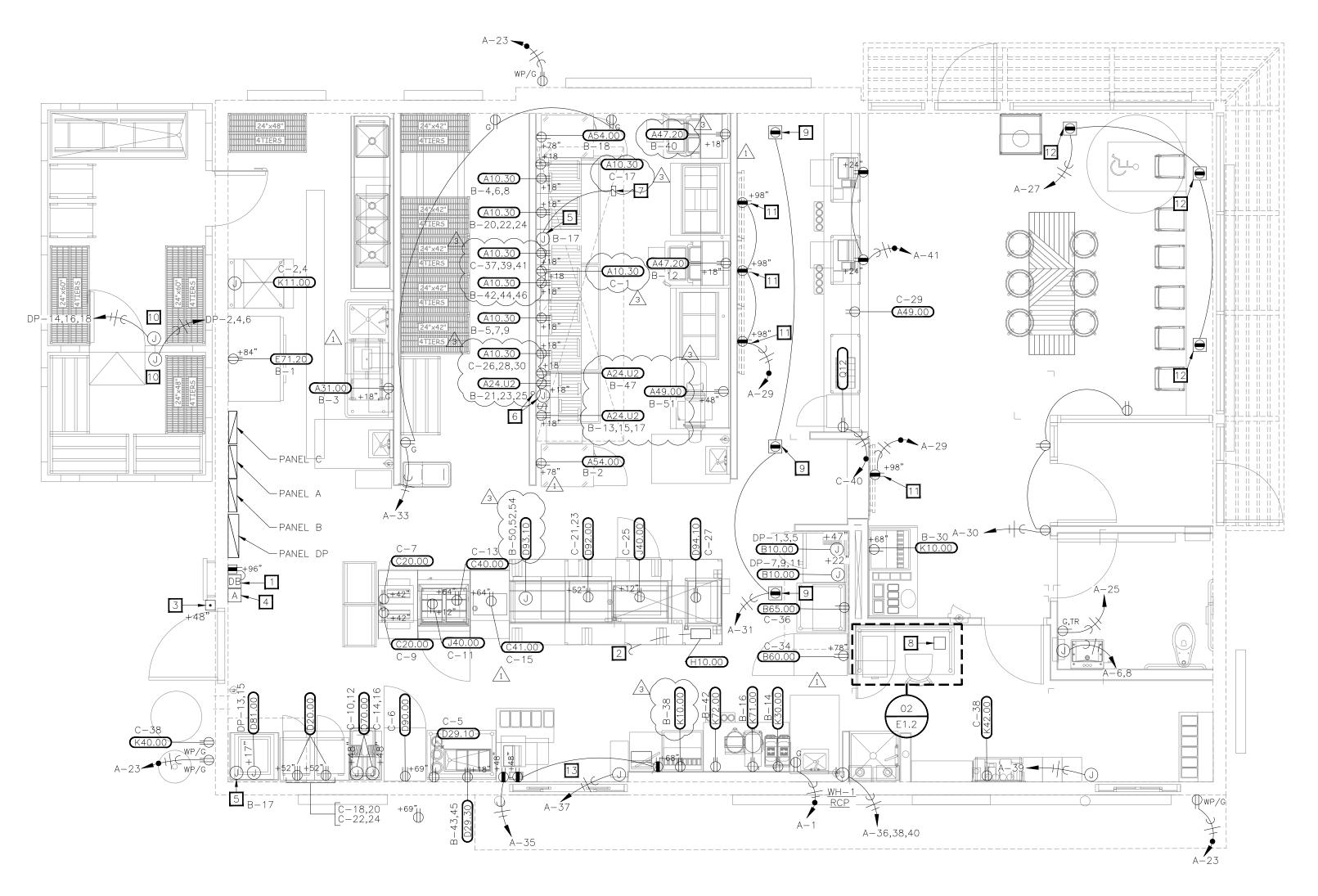
1517 NC 24-87 CAMERON, NC

2112-21

ELECTRICAL LIGHTING
PLAN

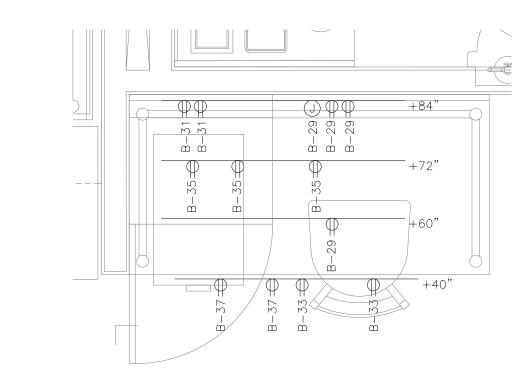
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JP	AH
Scale	Date
1/4" = 1'-0"	JUNE 2023
Project No.	Drawing No.
C22-129	E1.1

LIGHTING FIXTURE SCHEDULE MANUFACTURER & CATALOG NUMBER LAMPS & BALLAST VOLTS WATTS DESCRIPTION MOUNTING REMARKS BOH LIGHTING: 2X4 LED TROFFER 24-FPL1-LED-4000L-DIM10-MV0LT-35 3500K LED SURFACE 120 52 BOH LIGHTING: 24-FPL1-LED-4000L-DIM10-MVOLT-35 AE 2X4 LED TROFFER W/ BATTERY BACKUP 120 52 3500K LED SURFACE -85-0-EMG-LED-20W COMMERCIAL LIGHTING: BAS-SPWDL48-OAK-SPCC-LED-18W-35 SURFACE 120 18 LED SUSPENDED LIGHT 3500K LED K-010V NOLA MAKERS: LED ACCENT LIGHT 3500K LED PENDANT 120 12 BAS-PPC-10-RAL5018-0B6ST-48LST 120 11.5 HERMITAGE: LD6IC-AT-DIMTR-120 3500K LED 6" RECESSED DOWNLIGHT RECESSED COMMERCIAL LIGHTING: LD6IC-AT-DIMTR-120 3500K LED RECESSED 120 11.5 ALTERNATE VENDOR 6" RECESSED DOWNLIGHT TBD 120 TBD LED SUSPENDED LIGHT SURFACE LED EMERGENCY LIGHT EXITRONICS: VLED-U-WH-EL90R N/A 120 5 WALL N/A 120 5 LED EMERGENCY LIGHT EXITRONICS: LED-90 WALL WALL PACK W/ PHOTOCELL 120 20 WESTGATE: WES-LESW20W50KP LED EM LIGHT WALL COMMERCIAL LIGHTING: DAL-RGR4-CC-BK 120 14 RECESSED DOWNLIGHT 5000K LED RECESSED LED GOOSENECKS HERMITAGE: 93102318 3000K LED WALL MOUNT 120 38 COMMERCIAL LIGHTING: OUTDOOR LED OUTDOOR SCONCE LED PENDANT 120 100 SCONCE 1 HUBBELL LIGHTING: POLE MOUNT UNV 165 LED POLE LIGHT RAR2-320L-165-5K7-4W-UNV-ASQ-DB 5000K LED



ELECTRICAL KEYNOTES

- PROVIDE DOUBLE DUPLEX RECEPTACLE ADJACENT TO TELEPHONE BOARD.
 PROVIDE #6 CU GROUND TO SERVICE ENTRANCE GROUND. SEE
 ARCHITECTURAL ELEVATIONS.
- 2 ALL POWER FOR ISLAND KITCHEN EQUIPMENT TO RUN THROUGH LOAD CENTER H10.00. CONDUIT TO RUN UNDER SLAB AND STUB AT H10.00.
- 3 SERVICE SIGN AND PUSHBUTTON FOR DOORBELL. 4 E.C. TO WIRE AND CONNECT REMOTE ANSUL PULLSTATION.
- 5 E.C. TO INSTALL AND WIRE RELAY CONTROL PANEL PACKAGE FOR HOOD EXHAUST FANS HEF-1 AND HEF-2. PROVIDE POWER AND INTERLOCK CONTROL WIRING FOR HP1-F CONTROL PANEL AND HOOD FIRE
- SUPPRESSION SYSTEM. SEE EXHAUST HOOD WIRING DETAIL SHEET E3.2. 6 HOOD ANSUL FIRE SUPPRESSION SYSTEM. PROVIDE 3/4" CONDUIT STUBBED ABOVE CEILING.
- 7 "ON/OFF" SELECTOR SWITCH AND PILOT LIGHT IN NEMA 4X STAINLESS STEEL ENCLOSURE MOUNTED ON THE FACE OF THE HOOD. PROVIDED BY HOOD MANUFACTURER.
- 8 OFFICE EXHAUST FAN SHALL BE CONNECTED TO OPERATE WITH AREA LIGHTING. INTERLOCK EXHAUST FAN WITH LIGHTS.
- PROVIDE CEILING OUTLET WITH ISOLATED GROUND RECEPTACLES SUPPORTED FROM BUILDING STRUCTURE FOR VIDEO MONITOR, PRINTER, AND/OR HEADSET. VERIFY EXACT REQUIREMENTS AND LOCATION.
- 10 POWER CONNECTION TO WALK-IN FREEZER, EVAP, DEFROSTER, HEAT TAPE, AND DOOR HEATER.
- POWER FOR MENUBOARDS. REFER TO "MONITOR BRACKET DETAIL" ON SHEET E3.1 FOR MORE INFORMATION.
- 12 CEILING MOUNTED SHOW WINDOW RECEPTACLE.
- 13 SEE DETAIL 07, E3.1 FOR DRIVE-THRU AUDIO AND TIMERS DIAGRAM.



O 2 MANAGER'S DESK POWER PLAN
3/4"=1'-0"

ISSUE TABLE					
No.	Date (mm/dd/yy)	Description			

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No.	Date	Description
1	8/01/2023	RESPONSE TO CITY
2	9/04/2023	HEALTH COMMENTS
3	9/12/2023	RESPONSE TO CITY

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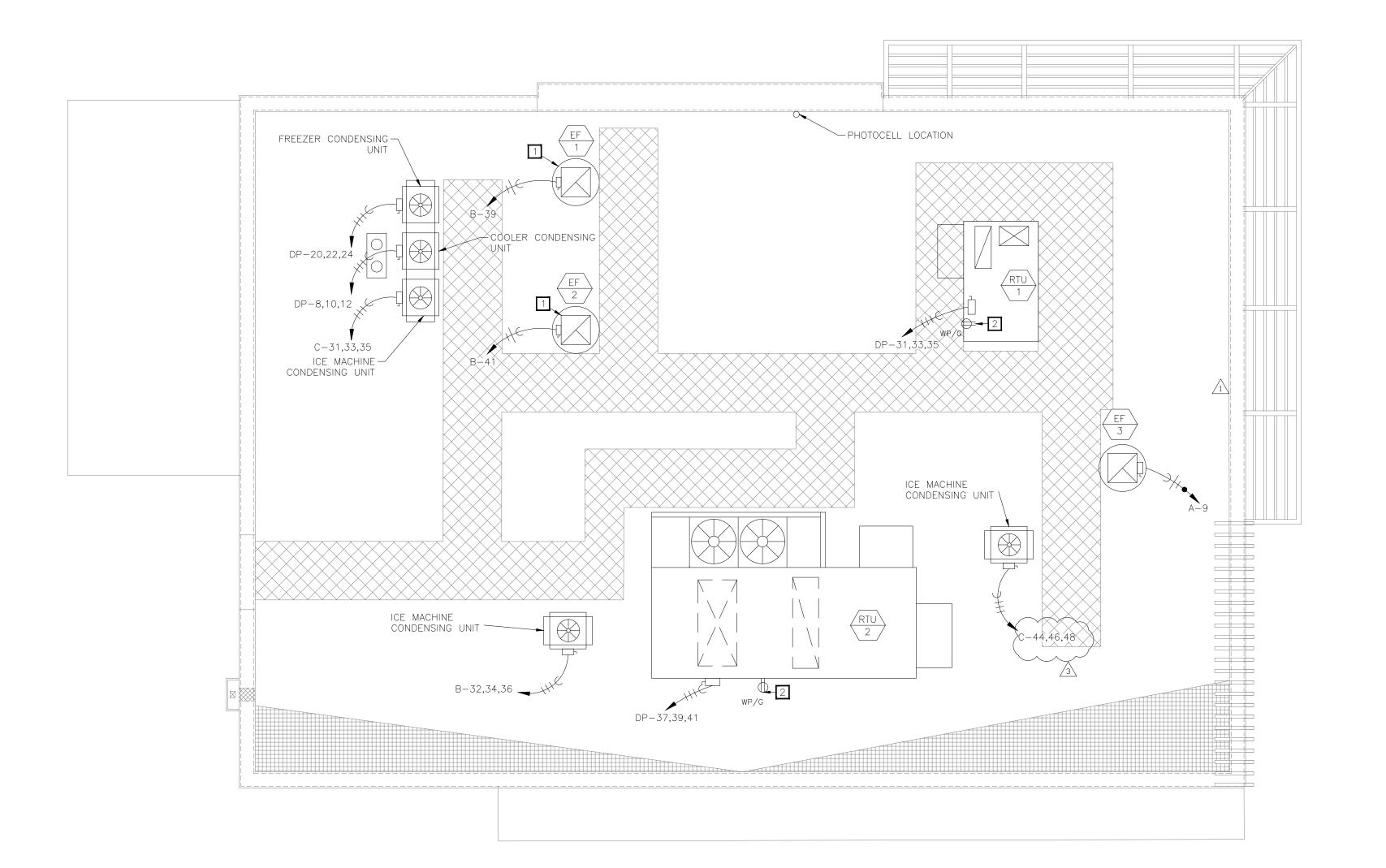


US 2112 PROTOTYPE 2112-21

1517 NC 24-87 CAMERON, NC

ELECTRICAL POWER PLAN

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JP	AH
Scale	Date
AS SHOWN	JUNE 2023
Project No.	Drawing No.
C22-129	E1.2



POOF POWER PLAN

1/4"=1'-0"

ELECTRICAL KEYNOTES

PROVIDE CONNECTION TO ASSOCIATED SWITCH ON HOOD. COORDINATE ALL REQUIREMENTS WITH MECHANICAL DRAWINGS AND HOOD WIRING DIAGRAM PRIOR TO ROUGH—IN.

2 UNIT IS PROVIDED WITH UNIT MOUNTED UNIT POWERED CONVENIENCE RECEPTACLE.

ISSUE	TABL

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1	8/01/2023	RESPONSE TO CITY
2	9/04/2023	HEALTH COMMENTS
3	9/12/2023	RESPONSE TO CITY

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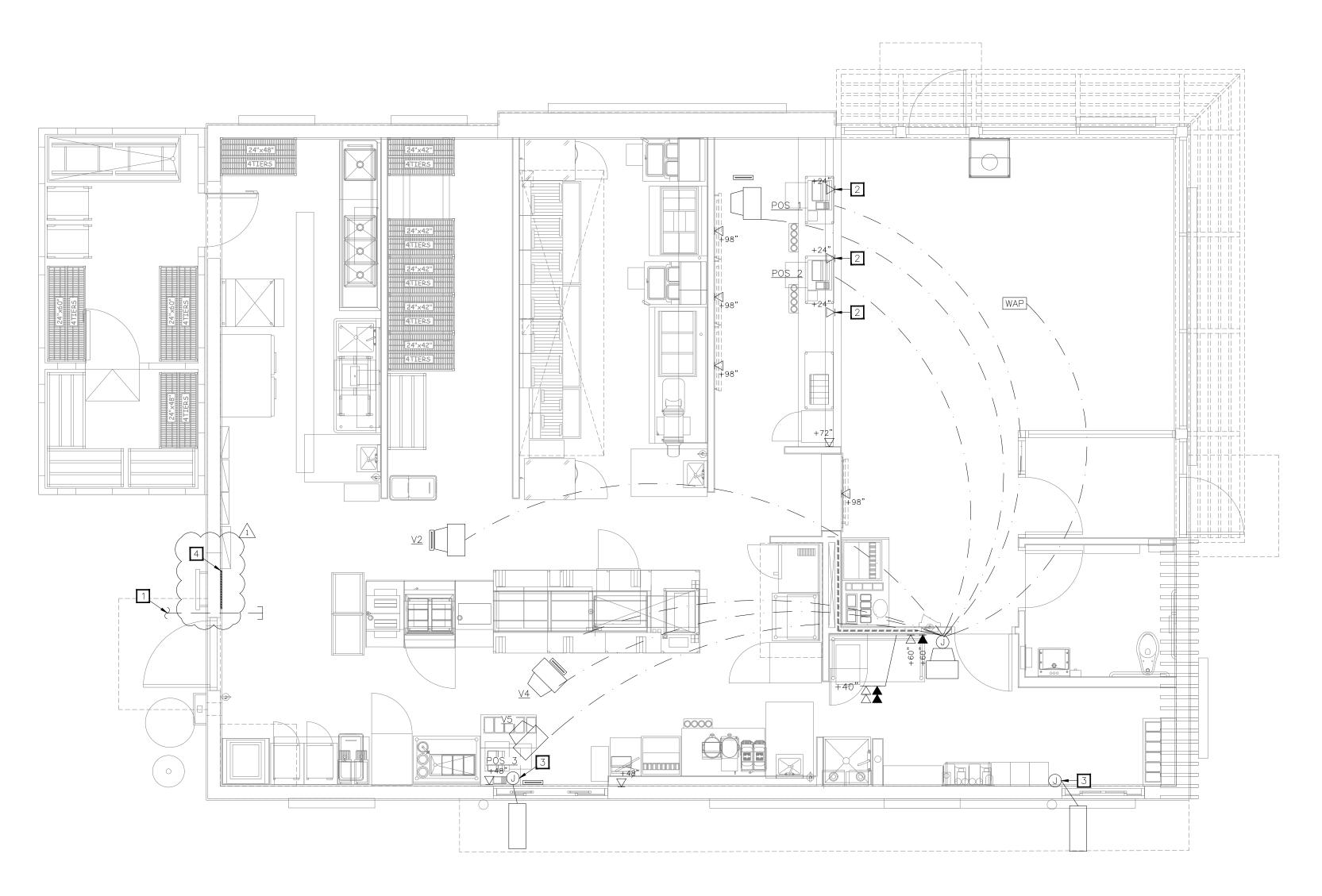
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> 1517 NC 24-87 CAMERON, NC

Drawing Title

ELECTRICAL ROOF PLAN

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1/4" = 1'-0"	JUNE 2023	ΣΉ.
Project No.	Drawing No.	<u> </u> й
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1 LOW VOLTAGE PLAN

1/4"=1'-0"

POS LEGEND

---- BUMP BAR WIRING

---- VIDEO MONITOR AND POS WIRING

BB - BUMP BARS

V1 = VIDEO 1

V2 = VIDEO 2

POS - POINT OF SALE TERMINAL

WIRELESS APPLICATION PROTOCOL

SYMBOLS LEGEND NOTES:
MOUNTING HEIGHTS INDICATED ARE MEASURED FROM FINISHED FLOOR TO THE

V3 = VIDEO 3 V4 = VIDEO 4 V5 = VIDEO 5

CENTERLINE OF THE DEVICE UNLESS NOTED OTHERWISE.

MONITOR

NOTES TO ARCHITECT:

• ENGINEER NEEDS LOCATIONS FOR ALL SPEAKERS

SECURITY WIRING (CAT6)

ELECTRICAL KEYNOTES

- (2) 2" CONDUITS FROM TELEPHONE BOARD TO A LOCATION COORDINATED WITH LOCAL TELEPHONE COMPANY. OWNER REQUIRED SERVICE CONDUITS SHALL BE SIZED FOR 25 PAIR (MINIMUM). TELEPHONE SERVICE CONDUITS SHALL BE INSTALLED WITH PULL WIRE. CONDUITS RISE FROM U.G. INSIDE EXTERIOR WALL, TURN 90 DEGREES, AND TERMINATE IN BUILDING. SEE ARCHITECTURAL ELEVATIONS.
- FRONT COUNTER REGISTER DATA OUTLETS MOUNTED ON INSIDE OF MILLWORK. PROVIDE 1" CONDUIT WITH PULL STRING FOR POS DATA
- PROVIDE JUNCTION BOX WITH 1" CONDUIT WITH PULL STRING THROUGH CURB TO 2" BELOW PAVEMENT LINE FOR CAR SENSOR DETECTOR LOOP. COORDINATE WITH CIVIL PLANS AND COORDINATE INSTALLATION IN FIELD WITH SUPPLIER.
- PROVIDE 3/4" X 18" X 24" W PLYWOOD TELEPHONE BOARD PAINTED WITH 2 COATS OF "LISTED" FIRE RETARDANT LIGHT GRAY COLOR PAINT.

ISSUE	TABLE	
No.	Date (mm/dd/yy)	Descriptio

3 9/12/2023

 REVISIONS

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 1
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DRAWINGS REVISED AS PER DESIGN BULLETIN No. Date Description

RESPONSE TO CITY





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REGISTER CONNECTION NOTES

- A. CABLES SHALL BE CAT6.
- B. BUMP BARS SHALL BE MOUNTED TO DELIVER SYSTEM AT AREAS MARKED "BB".
- C. BUMP BAR CABLES SHALL BE RUN THROUGH DELIVERY SYSTEM FROM MOUNT UP THROUGH WALLS TO ABOVE THE CEILING AND BACK TO THE MANAGER STATION.
- D. CRT MONITORS SHALL BE MOUNTED ON CEILING BRACKETS PROVIDED BY REGISTER SYSTEM.
- E. WHERE CABLING IS INSTALLED IN WALLS, IT SHALL BE ROUTED IN 1" CONDUIT THROUGH THE WALL TO ABOVE ACCESSIBLE CEILING.

POPEYES RADIO SYSTEM PROVIDED BY OWNER

DESCRIPTION	MAKE	MODEL	QUANTITY
RECESSED SPEAKERS*(DINING)	BOSE	MODEL #16, BLACK	4
RECESSED SPEAKERS*(KITCHEN) MUZAK	MBS 8-ST3, BLACK	2
OUTDOOR BOX SPEAKERS*	OWI	701	4
AMPLIFIER	PASO	MU 3130 BGM	1
SPEAKER SUPPORT	QUAM	SSB-2	2
SPEAKER BACKCAN	QUAM	ERD-8	2
CABLE, CONNECTORS, HARDWARE AND SHELF	VARIOUS	VARIOUS	1
AREA VOLUME CONTROL	QUAM	QC-10	3
RECEIVER	ECOHO STAR	3000	1
DISH	CH MASTER	1.0 ANTENNA	1

TISH

CH MASTER

1.0 ANTENNA

1

* NUMBER OF SPEAKERS MAY VARY DUE TO DESIGN CONSIDERATIONS

* * LABOR INCLUDES INSTALLATION OF 150' OF 12 GAUGE SPEAKER WIRE.

SEE THE NATIONAL ACCOUNT VENDOR LIST FOR EQUIPMENT SUPPLIER.

Project	
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	POPEYES.

Store Type
US 2112 PROTOTYPE

1517 NC 24-87

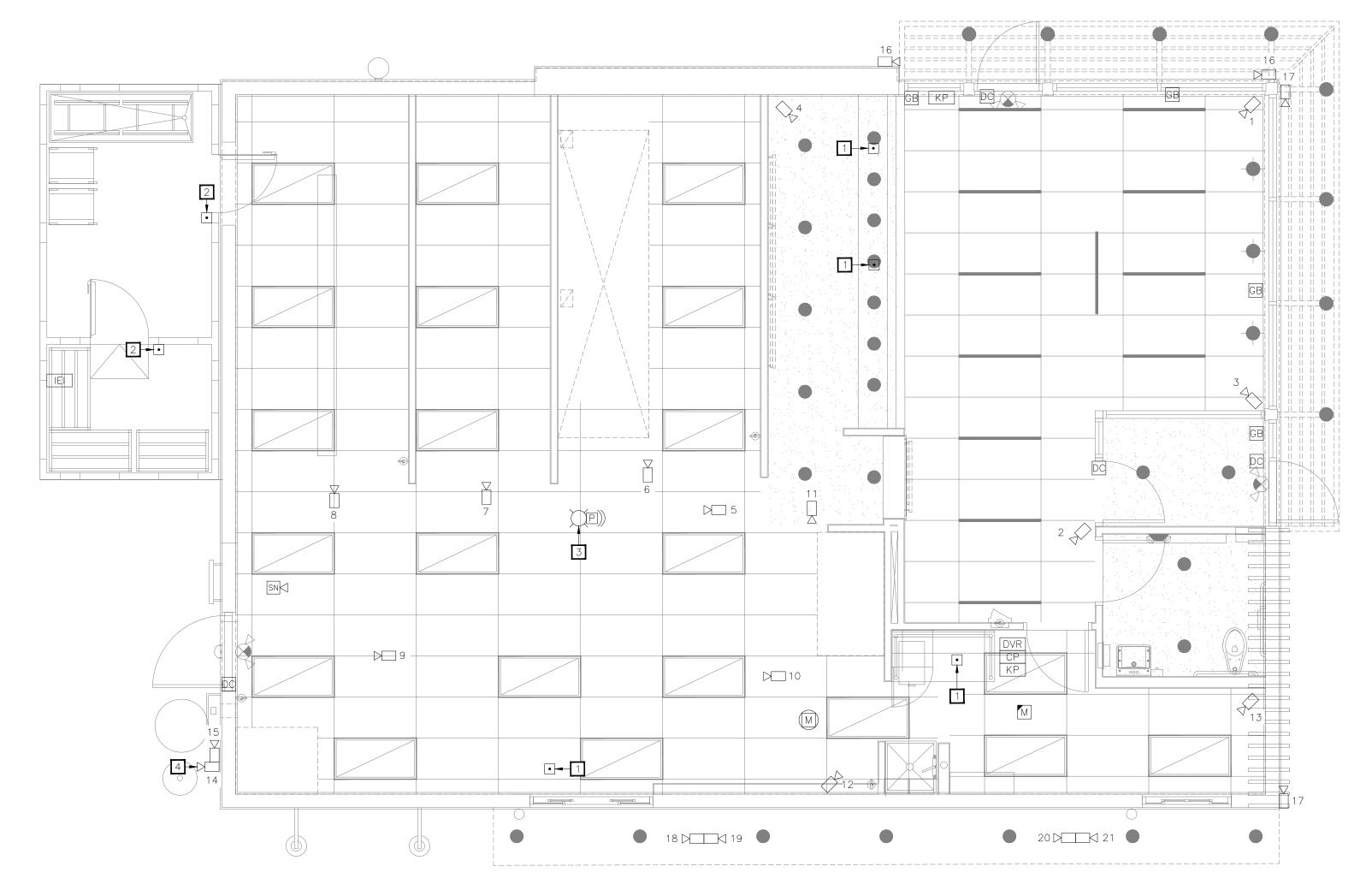
2112-21

CAMERON, NC

Drawing Title

ELECTRICAL POS PLAN

Drawn	Checked
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Scale	Date
1/4" = 1'-0"	JUNE 2023
Project No.	Drawing No.
C22-129	E1.4



 $\int \int \frac{\text{SECURITY PLAN}}{1/4"=1'-0"}$

ELECTRICAL KEYNOTES

- 1 PROVIDE PANIC BUTTON INSTALLED ON UNDERSIDE OF COUNTER/ DESK.
 2 PROVIDE WEATHERPROOF/ COLD—PROOF HOLD—UP PANIC BUTTON INSIDE WALK—IN COOLER/ FREEZER. COORDINATE EXACT INSTALLATION AND LOCATION WITH POPEYES CONSTRUCTION MANAGER.
- 3 STROBE LIGHT -AS SL-401B-BLUE STROBE LIGHT MOUNTED IN KITCHEN. LIGHT WILL FLASH CONTINUOUSLY WHILE BACK DOOR IS OPEN.
- 4 MOUNT CAMERA ON BUILDING CORNER AND ORIENT TO FACE DRIVE—TH

POPEYES MATERIAL LIST

<u>CAMERAS</u>

- A. CAMERA ACCESSORIES AND DETAILS:
- A.A. 6 OR 7 LOCATIONS (LOCATIONS W/OUTDOOR CAMERAS)
 A.B. 2 OR 3 GIT100-GROUND ISOLATION TRANSFORMERS
 A.C. LTC 0430/20-38 SERIES CAMERA W/ 3.5-8MM VARIFOCAL AUTOIRIS LENS
- A.D. TC 9340A SERIES OUTDOOR HOUSING A.E. TC9211PM POLE MOUNT ADAPTER
- A.F. NC CONNECTORS FOR PLENUM CABLE
 A.G. LEX CONDUIT FOR OUTDOOR CAMERAS RUN INSIDE POLE
 FOR CABLING
- B. INDOOR CEILING MOUNT IN TINTED DOME:

 B.A. FASTEN SCREW IN CEILING FOR DOMES SO NOT EASILY
- DROPPED OUT OF TILE

 B.B. LTC 0430/20-38 SERIES CAMERA W/ 3.5MM-8MM
- VARIFOCAL AUTOIRIS LENS B.C. TC 9345MT7 INDOOR TINTED DOME
- B.D. BNC CONNECTORS FOR PLENUM CABLE

<u>office area</u>

- C. AC-BURGLAR ALARM CONTROL: VISTA 20SEUL
- D. VCR LOCK BOX : TC3922 SERIES
 E. VCR: LTC 3924 SERIES PLACE ON SECURITY LOCK FOR NO
- TAMPER F. MONITOR: LTC 2813/60 SERIES
- G. ALTV248: 8 POSITION POWER SUPPLY
 H. QUICK REFERENCE SHEETS
- I. ALARM INSTRUCTION SHEET TO BE MOUNTED ON WALL IN EMPLOYEE ONLY AREA CLOSEST TO KEYPAD OR IN OFFICE AREA PER CUSTOMER INSTRUCTION
- J. VCR INSTRUCTION SHEETS (2) 1-REVIEW & 1-RECORD-TO BE MOUNTED ON WALL CLOSEST TO VCR
 K. 2-HUB: HOLD UP BUTTON 441494 SERIES LATCHING HUB
- FOR LOCATIONS WITH 6 OR MORE CAMERAS: ADD MULTIPLEXER LTC

2641/60. PLACE ON NO-TAMPER SECURITY LOCK.

FOR LOCATIONS WITH 4 CAMERAS OR LESS: ADD VIDQUAD 4 CHANNEL LTC 2272/60

STOVE/ PREP AREA

- L. STROBE LIGHT-AS SL-401B-BLUE STROBE MOUNT BEHIND MENU BOARD.
- L.A. STROBE LIGHT WILL FLASH CONTINUOUSLY WHILE BACK DOOR IS OPEN
- M. SOUNDER-AS-PAL328N-LOW TONE SOUNDER MOUNT WITH STROBE BEHIND MENU BOARD.

 M.A. SOUNDER WILL SOUND WHEN BACK DOOR IS OPENED.
- M.B. MANAGER WILL SILENCE ST SOUNDER AT KEYPAD AFTER 1ST TONE
- N. MOTION DETECTOR—AP 669 PIR—360 MOTION MOUNT IN STOVE AREA.

 N.A. MOTION DETECTOR RADIUS TO INCLUDE DRIVE—UP WINDOW AREA AND GENERAL REAR AREA.

LOBBY/ PERIMETER AREA/ BACK OF HOUSE

- O.A. MOUNT 40" AFF WALL ENTERING KITCHEN AREA FROM LOBBY
 P. FG 1025 GLASS BREAK
 P.A. GLASS BREAK FOR LOBBY GLAZING. PROVIDE ONE ON EACH
- SIDE OF BUILDING. COORDINATE EXACT DEVICE LOCATION
 AND INSTALLATION.
 Q. B4039 DOOR CONTACT
 Q.A. PROVIDE FOR ALL EXTERIOR DOORS. BACK DOOR CONTACT
- Q.A. PROVIDE FOR ALL EXTERIOR DOORS. BACK DOOR CONTACT
 TO ACT AS ALARM POINT FOR REAR "OPEN DOOR" ALARM.
 SOUNDER AND BLUE STROBE TO ACTIVATE WHEN BACK DOOR
 IS OPEN.
- R. 3050CT SERIES HOLD—UP PANIC BUTTON
 R.A. LATCHING HUB IN COOLER/FREEZER. MOUNT 18" AFF ON
- HINGE SIDE OF DOOR SUB UP IN CONDUIT
 S. POINT OF CONNECTION TO NKL SAFE
 S.A. PIGTAIL PROVIDED BY NKL SAFE
- T. RELAYS FOR BACK DOOR/POC/ZONE EXPANSION
- U. TELCO JACK
 V. WATTS LINE

<u>REFERENCE ONLY</u>

SECURITY SYMBOL	LEGEN				
DEVICE	SYMBOL	QTY.	DEVICE	SYMBOL	QTY.
DOOR CONTACT	DC	4	DOME CAMERA (PROVIDE EXTERIOR RATINGS WHERE REQUIRED)		21
HORN/ SOUNDER	SN	1	14 INCH MONITOR	M	1
CONTROL PANEL	CP	1	DIGITAL VIDEO RECORDER	DVR	1
SECURITY KEYPAD	KP	2	IEI KEYPAD	IEI	1
MOTION DETECTOR (CEILING MOUNT)	M	1	STROBE LIGHT	X	1
GLASS BREAK	GB	4	PIEZO	P))	1
HOLD-UP PANIC BUTTON	•	6			

SECURITY ACCEPTANCE FORM NOTE

CONTRACTOR TO FILL OUT "SECURITY INSTALLATION ACCEPTANCE FORM/CHECKLIST" ON SHEET E1.0 TO FINALIZE INSTALLATION OF SECURITY

ISSUE TABLE

	No.	Date (mm/dd/yy)	Description
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REVISIONS

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2	9/04/2023	HEALTH COMMENTS
3	9/12/2023	RESPONSE TO CITY

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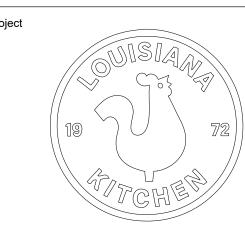
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POPEYES

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1517 NC 24-87 CAMERON, NC

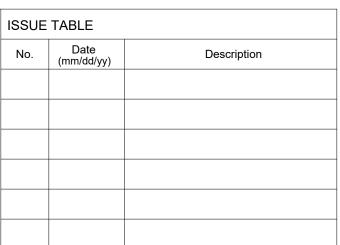
Drawing Title

ELECTRICAL SECURITY PLAN

Drawn	Checked
JP	AH
Scale	Date
1/4" = 1'-0"	JUNE 2023
Project No.	Drawing No.
C22-129	E1.5

ELECTRICAL KEYNOTES

PROVIDE 120V WIRING TO DUCT MOUNTED SMOKE DETECTORS AND REMOTE TEST INDICATORS.



REVIS	IONS	
No.	Date	Description
1	8/01/2023	RESPONSE TO CITY
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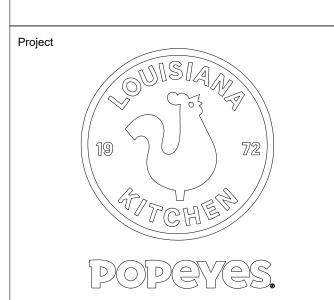
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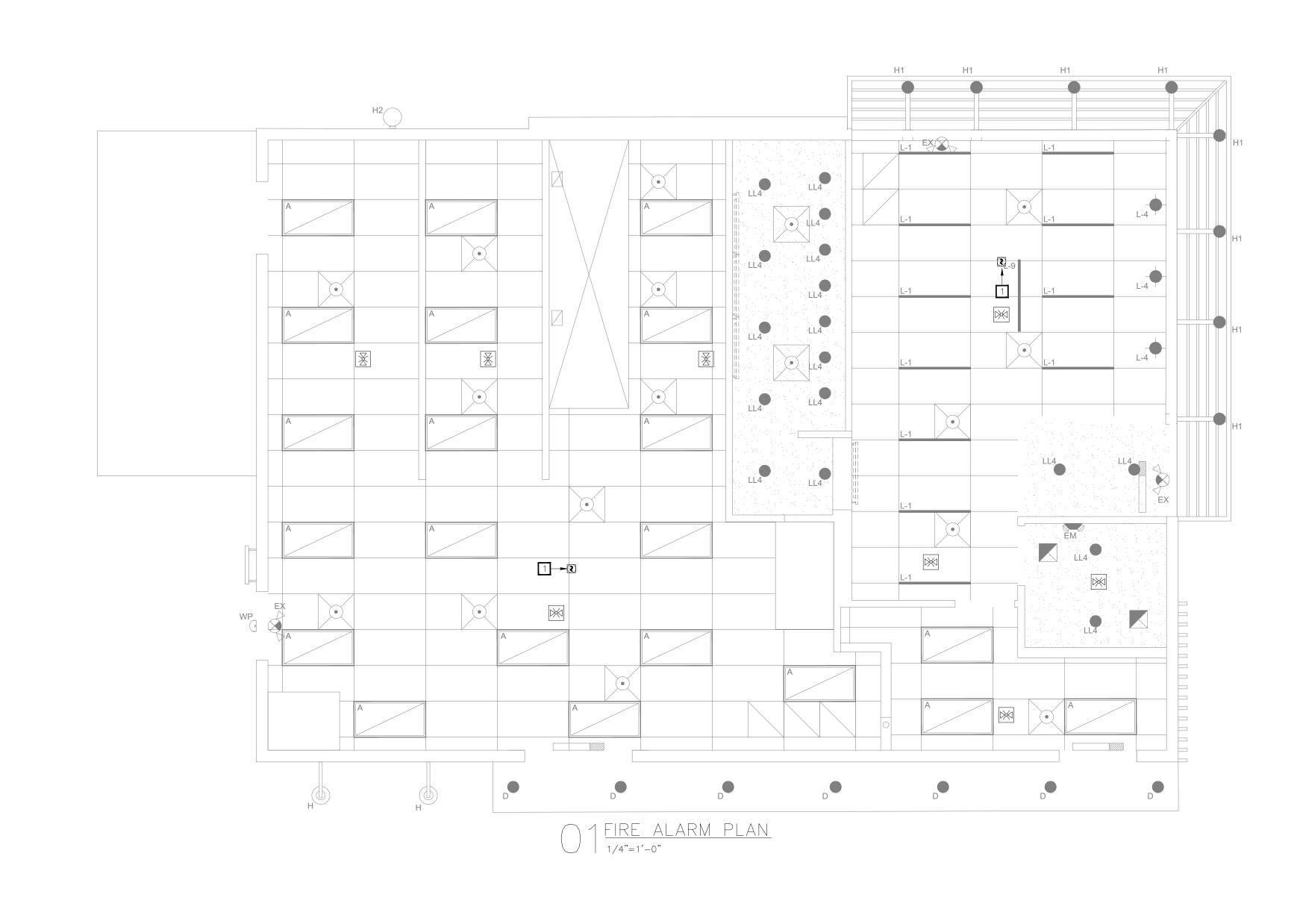
US 2112 PROTOTYPE 2112-21

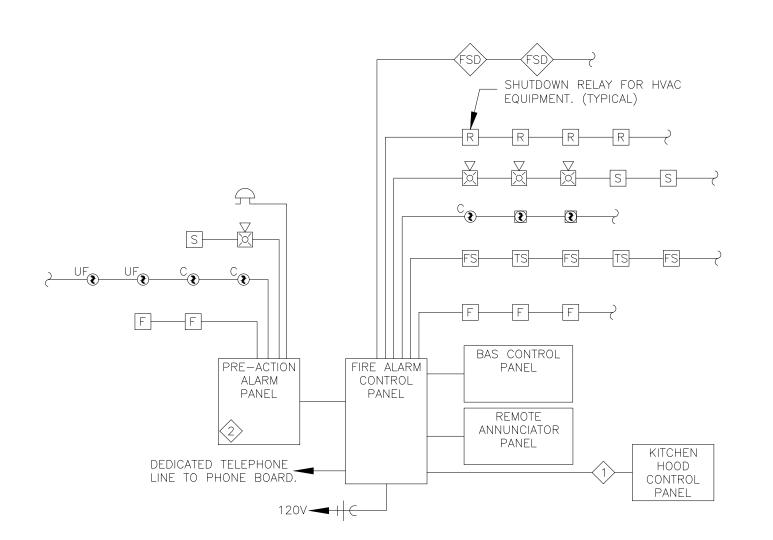
1517 NC 24-87

CAMERON, NC

Drawing Title ELECTRICAL FIRE ALARM PLAN

Drawn	Checked
JP	AH
Scale	Date
AS SHOWN	JUNE 2023
Project No.	Drawing No.
C22-129	E1.6





ELECTRICAL CONTRACTOR SHALL PROVIDE RELAY CONNECTION BETWEEN KITCHEN EXHAUST HOODS AND FIRE ALARM SYSTEM. DATA ROOM SHALL BE MONITORED AND SIGNALED INDEPENDENTLY.

INCLUDING VOLTAGE DROPS AND BATTERY CALCULATIONS. 2 FIRE ALARM RISER DIAGRAM NOT TO SCALE

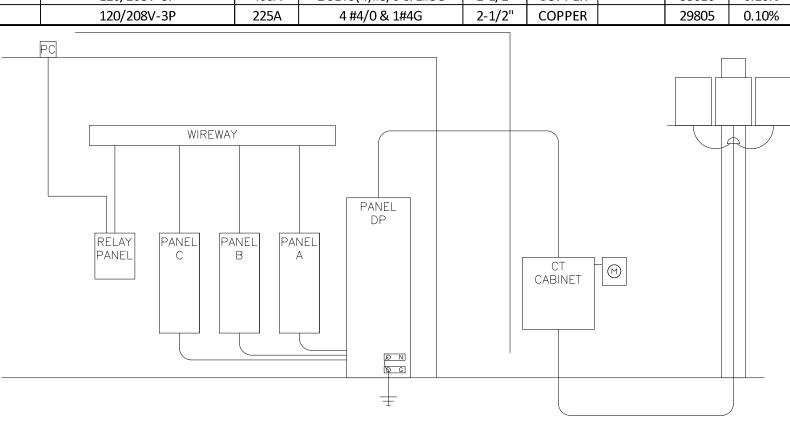
FIRE ALARM CONTRACTOR SHALL VERIFY EXACT NUMBER OF CIRCUITS REQUIRED FOR ALL DEVICES,

		<u>FEEDER</u> <u>CONNECTION</u>						CONN	<u>ECTION</u>				
EQUPIMENT MARK	ITEM DESCRIPTION	<u>VOLTAGE-</u> <u>PHASE</u>	МОСР	CONDUCTOR & GROUND	PIPE	MATERIAL	TYPE	<u>AMPERAGE</u>	POLES	<u>FUSES</u>	<u>NEMA</u>	<u>HEIGHT</u>	REMARKS
		1001100			4.0	000000						4.011	
A10.30	MULTIPLE LE FRYER SYSTEM, ELECTRIC	120V-3P	70A	1 SET(6)#6,#10G	1"	COPPER	RECEPTACLE	56A	3		5-15	18"	Amperage per vat. Needs power for contro
A24.U2	MULTIPLE LE FRYER SYSTEM, ELECTRIC	208V-3P	60A	1 SET(4)#10,#8G	3/4"	COPPER	RECEPTACLE	47A	3		5-15	18"	Amperage per vat. Needs power for control
A31.00	MARINATOR	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15	18"	
A47.10	BATTER CART	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15	18"	
A47.20	BATTER CART	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15		
A47.30	BATTER CART	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15	18"	
A49.00	DRUMROLL	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15		
A54.00	REACH-IN-FREEZER	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15	78"	
AB54.00	REACH-IN-FREEZER	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15		
B10.00	CONVECTION OVEN	120/208-3P	40A	1 SET(4)#8,#10G	3/4"	COPPER	HARDWIRE	24A	2			22"-47"	
B20.00	COUNTERTOP MIXER	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15		
B60.00	REACH-IN-REFRIGERATOR	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15	78"	
B65.00	BISCUIT HOLDING UNIT	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15		
C20.00	TOASTER	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15	42"	
C40.00	PRODUCT HOLDING BIN	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15		
C41.00	PRODUCT HOLDING BIN	120V-1P	20A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	20A	1		5-20	64"	
D20.00	MICROWAVE OVEN	208V-1P		1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	2		6-15	40"-52"	
D29.00	DIPPER WELL	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15		
D20.10	UTENSIL HOLDER	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	1				
D29.30	HOT WELLS	208V-1P	20A	1 SET(3)#12,#12G	1/2"	COPPER	RECEPTACLE	5A	2				
D29.80	HOT WELLS	208V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	HARDWIRE		1				PROVIDE FOR (2) HOT WELLS
D50.00	ELECTRIC BOOSTER HEATER	208V-3P	30A	1 SET(3)#10,#10G	1/2"	COPPER	HARDWIRE		3				, ,
D70.00	HOT WATER DISPENSER	208V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	HARDWIRE		2			48"	
D81.00	RETHERMALIZER, WATER TANK, ELECTRIC	208V-1P	60A	1 SET(2)#6,#10G	3/4"	COPPER	HARDWIRE		2			17"	
D90.00	COOK & HOLD OVEN	120V-1P	20A	1 SET(2)#10,#10G	1/2"	COPPER	RECEPTACLE	19A	1		6-30	69"	
D92.00	SIDE HOLDING BINS	208V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	2		6-15	LOADCNTR	INCLUDED IN #H10
D92.00DM	HOT HOLDING CABINET	208V-1P	30A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	30A	2		6-30		
D93.10	HOLDING BIN	208V-1P	35A	1 SET(2)#8,#10G	1/2"	COPPER	HARDWIRE	30,1					
D94.00DM	HOT HOLDING CABINET	120V-1P	20A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	20A	1		5-20		
D94.00PC	PROTEIN HOLDING BIN	208V-1P	30A	1 SET(2)#10,#10G	1/2"	COPPER	RECEPTACLE	30A	2		6-30		
D94.10PC	BISCUIT HOLDING UNIT	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15		
E10.00	WALK-IN COOLER/FREEZER	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	HARDWIRE	15/4	1		J 13		SEE SPECS
E71.00	EVEN-THAW REFRIGERATOR	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15	84"	SEL SI LES
E71.20	THAWING CABINET	120V-1P	20A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	20A	1		5-20	04	
F15.10	FAB ELECTRICAL	208V-1P	15A	1 SET(2)#12,#12G	1-1/4"	COPPER	HARDWIRE	20A	2		3-20		SEE SPECS
GR10.00	CONTACT GRILL	120V-1P	20A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	20A	1		5-20		SLL SF LCS
H10.00	FAB ELECTRICAL	120V-1P 120/208V-3P	15A		1/2"	COPPER	HARDWIRE	ZUA	3		5-20		LOAD CENTER
		 	20A	1 SET(4),#4,#8G	1/2"	COPPER	RECEPTACLE	20A	3		Г 20		LOAD CENTER
H90.00	HOLDING CABINET	120V-1P		1 SET(2)#12,#12G	 	+			1		5-20	120	
J40.00	UNDERCOUNTER REFRIGETATOR	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15	12"	
K10.00	ICE MAKER, CUBE-STYTLE	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15	68"	
K30.00	DRINK MACHINE	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	HARDWIRE		1			50"	
K11.00	ICE MAKER, CUBE-STYLE	208V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	HARDWIRE	4=-	2			66"	<u> </u>
K30.00	DRINK MACHINE	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15		
K42.00	BAG N BOX	120V-1P	20A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	20A	1		5-15		
K40.00	OIL MANAGEMENT SYSTEM	120V-1P	20A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	20A	1		5-20		
K71.00	TEA BREWER	120V-1P	20A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	20A	1		5-20		

FEEDER						CONNECTIO	<u>N</u>			DENAA	
EQUIPMENT MARK VOLTAGE-PHASE MOCP CONDUC		CONDUCTOR & GROUND	PIPE	MATERIAL	TYPE	AMPERAGE	<u>POLES</u>	<u>FUSE</u>	<u>NEMA</u>	REMA	
RTU-1	208V-3P	90A	1 SET(3)#3, #8G	1-1/4"	COPPER	INTEGRAL DISCONNECT			NF		
RTU-2	208V-3P	175A	I SET(4)#2/0,#6G	2"	COPPER	INTEGRAL DISCONNECT			NF		
EF-1	120V-1P	20A	1 SET(2)#12,#12G	1/2"	COPPER	PROVIDE DISCONNECT	20A	1	NF	3R	
EF-2	120V-1P	20A	1 SET(2)#12,#12G	1/2"	COPPER	PROVIDE DISCONNECT	20A	1	NF	3R	
EF-3	120V-1P	20A	1 SET(2)#12,#12G	1/2"	COPPER	PROVIDE DISCONNECT	20A	1		3R	
ICE CONDENSER	208V-3P	20A	1 SET(3)#12,#12G	3/4"	COPPER	PROVIDE DISCONNECT	20A	3		3R	
ICE CONDENSER	208V-3P	20A	1 SET(3)#12,#12G	3/4"	COPPER	PROVIDE DISCONNECT	20A	3		3R	
ICE CONDENSER	208V-3P	20A	1 SET(2)#12,#12G	3/4"	COPPER	PROVIDE DISCONNECT	20A	3		3R	
COOLER CONDENSER	208V-3P	20A	1 SET(3)#12,#12G	3/4"	COPPER	PROVIDE DISCONNECT	20A	3		3R	
FREEZER CONDENSER	208V-3P	30A	1 SET(3)#12,#12G	3/4"	COPPER	PROVIDE DISCONNECT	30A	3		3R	

NOTE	ES:
	1 CIRCUIT THROUGH RELAY PANEL FOR CONTROL. SEE SCHEDULE FOR ADDITIONAL INFORMATION

FEEDER SCH	EDULE							
			<u>FEEDE</u>	<u>R</u>				
EQUIPMENT MARK	<u>VOLTAGE-PHASE</u>	<u>MOCP</u>	CONDUCTOR & GROUND	<u>PIPE</u>	MATERIAL	REMARKS	FAULT CURRENT	VOLTAGE DROP
UTILITY	500KVA 120/208V-3P INFINITE						111935	
DP	120/208V-3P	1000A	4 SETS(4)#250	3"	COPPER		36392	
А	120/208V-3P	225A	4 #4/0 & 1#4G	2-1/2"	COPPER		30819	0.10%
В	120/208V-3P	400A	2 SETS(4)#3/0 & 1#3G	2-1/2"	COPPER		33616	0.10%
С	120/208V-3P	225A	4 #4/0 & 1#4G	2-1/2"	COPPER		29805	0.10%

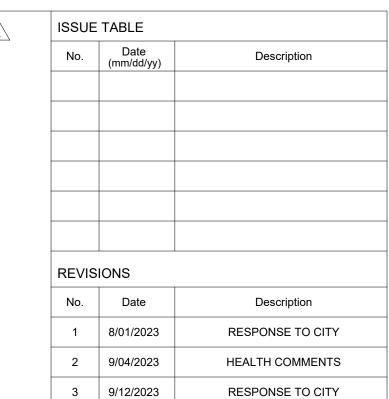


1 ELECTRICAL RISER DIAGRAM
NO SCALE

PANELBOARD:	С						MAIN SIZE	:		225 A	VOLTS:		120/208		
PANEL TYPE :	NQ						MAIN TYP	E:		MLO T	PHASE/WIRE:		3/4		1
LOCATION:	B.O.H.						BUS TYPE:	:		COPPER	MOUNTING:		SURFACE		1
									- '		PANEL IC RATING:		42,000 AIC		1
LOAD CKT DESIGNATION	~~	WIRE		PL AMPS	PHASE	PHASE	PHASE	AMPS	PL	LOAD	WIRE		DESIGNATION	СКТ	LO
0 1 A10.30 - FRYER CON	ITROLS	2 #12.1#12G.3/4"C	1020	1 20	2164	В	C	15	2	1144 2	SIZE 2 #12.1#12G.3/4"C	K11.00 -	ICE MAKER **	2	1 6
3 SHUNT TRIP		2 112,11120,5,4 0	1020)2104	1144	7	-	- 1	1144 -	112,11120,5,7 + 0	-		4	1 0
K , 5 D29,10 - UTENSIL HC	LDER,**	2 #12,1#12G,3/4"C	, 100	1 ,15			2392	20	1		#12.1#12G.3/4"C	D90.00 -	COOK & HOLD OVEN **	6	Тĸ
K 7 C20.00 - TOASTER **		2 #12.1#12G.3/4"C	1800	7 20	1800	1		20	1		,,.	SPARE		8	\top
K 9 C20.00 - TOASTER **	,	2 #12,1#12G,3/4"C	1800	1 20		3360	7	20	2	1560 2	#12,1#12G,3/4"C	D70.00 F	OT WATER DISPENSER **	10	K
K 11 J40.00 - U/C FRIDGE	**	2 #12,1#12G,3/4"C	300	1 15			1860	- 1	- 1	1560 -		1-		12	K
K 13 C40.00 HOLDING BIN	**	2 #12,1#12G,3/4"C	1386	1 15	2946	1		20	2	1560 2	#12,1#12G,3/4"C	D70.00 F	OT WATER DISPENSER **	14	K
Y 15 C41.00 HOLDING BIN	**	2 #12,1#12G,3/4"C	1000	1 20-		2560	7	-	- 1	1560 -		-		16	K
O 17 A10.30 - FRYER CON	ITROLS	2 #12,1#12G,3/4"C	1020	1 20	\		2434	20	2	1414 2	#12,1#12G,3/4"C	D20.00 N	IICROWAVE OVEN **	18	K
19 SHUNT TRIP)1414	1		-	- 1	1414 -		-		20	K
K 21 D92,00 - SIDE HOLDI	NG BINS **	2 #12,1#12G,3/4"C		2 _20	/	3084	7	20	2	1414 2	#12,1#12G,3/4"C	D20.00 N	/ICROWAVE OVEN **	22	K
K 23 -			1670			,	3084	-	- 1	1414 -		-		24	r
O 25 J40.00 - U/C FRIDGE	**	2 #12,1#12G,3/4"C	300	1 15	7024]		70	3	6724 3	#4,1#8G.1 1/4"C	A10.30 -	FRYER (ELECTRIC) **	26	1
K 27 D94.10 - BISCUIT HO	LDING UNIT **	2 #12,1#12G,3/4"C	1380	1 15		8104	1			6724		I		28	k
K 29 A49.00 DRUMROLL		2 #12,1#12G,3/4"C	1800	1 20		•	8524 /		\rightarrow	6724 -		7-		30	T
O 31 ICE MACHINE COND	ENSER	3 #12,1#12G,3/4"C	458	3 15	458]		-	- 1			SHUNT	TRIP	32	T
O 33			458			1178	7 `	15	,1	, 7,20 2	!_#12,1#12G,3/4"C _		REACH-IN FRIDGE ** , ,	34	7
O 35			458			•	1458	15	M	1000 2	#12,1#12G,3/4°C	B65.00 E	BISQUIT HOLDING UNIT **	36	T
K 37 A10.30 - FRYER (ELE	ECTRIC) **	3 #4,1#8G.1 1/4"C	6724	3 70	6904]		20	1	180 2	#12,1#12G,3/4"C	K40.00 -	OIL MGMT SYSTEM	38	
K 39			6724			7084	7	20	1_	360 2	#12,1#12G,3/4"C	Q12		_40	_ F
42			672,4	\ \ \		,	7224	20	M	560 2	¥12,1¥12G,3√4"C ✓	HOODE	ONTROLS	42	3
43 SHUNT TRIP				-	458			15	3	458 3	#12,1#12G,3/4"C	ICE MAC	CHINE CONDENSER	44	
45 SPARE				1 20		458			-	458		-		46	
47 SPARE				1 20)		458\			458		-		48	C
49 SPARE				1 20				20	1			SPARE		50	
51 SPARE				1 20			1 (20	1			SPARE		52	
53 SPARE				1 20				20	1			SPARE		54	
			36792		/23168	26972	27434	٣	ΛĹ	40782		$\overline{}$		<u> </u>	$\overline{}$
		LOAD SUMMARY	I annu annu	DESCASIO	DEMAND LO	> A D/I/// A \ DE	D DILACE								7
NEC CODE REFERENCE	LOAD LOAD (LATEGORY	TOT KVA				PHASE C	KVA		AMP	MARK *	PROVID	REMARKS E HACR BREAKER		4
220.12/220.42/220.43/220.14(F)		NG	0.00	1.00	0.00				0.00	0.00	**	GROUNI			-
220.14(I)(H), 220.44	R RECEPT		0.36	1.00	0.00				0.36	1.00	^		CTED TO FIRE SUPPRESSION	N SVST	LE M
220.14(f)(1), 220.44 220.14(C)/430.24						0.00		_	_		#		JND/GFCI BREAKER	10101	7
220.14(0)/430.24			0.00	1.00	0.00		+		0.00	0.00	***		TING CONTROL PANEL		4
220.60/440.6/440.7		N EQUIPMENT: NDITION:	0.00	0.65 1.00	12.75 0.00	15.49 0.00			4.48 0.00	123.48 0.00		TAIN FIGE	THING CONTROL PAINEL		4
220.51/220.60		NDITION: ELECTRIC):	0.00	1.00	0.00	0.00			0.00	0.00	PHASE DEMAND LOAD		% UNBALANCE	$\overline{}$	L
220.31/220.80 220.14(A)	O OTHER		8.78	1.00	3.56				8.78	24.36	PRASE DEIVIAND LOAL	KVA	AMPS		
220. 14(A)				1.00							DH A				
	SUB TO	IAL	77.57	100/	16.31	18.63			3.62	148.84	PH A PH B	17.9			
210.20(A)/215.2(A)(1)/230.42(A)	SPARE		0.00	10%	1.63	1.86			5.36	14.88	PH C	20.4			
220.14(C)/430.24			0.00		0.00				0.00	0.00	PROVIDE:	GROUNI			
220.14(C)/430.24		FAL.	0.00		0.00				0.00	0.00	FROVIDE.		ED GROUND BUS		
	ТО	IAL:	+		17.94	20.49	20.55) 5:	8.98	163.72			EUTRAL BUS		

				DP	_							MAIN SIZE:		-+		A VOLTS:		120/208		1
	EL TY			I-LIN								MAIN TYPE	=:	\dashv	MCB `	PHASE/WIRE:		3/4		-
OCA	OITA	N:	;	B.O.	Н.							BUS TYPE:			COPPER	MOUNTING:		SURFACE		
																PANEL IC RATING:		42,000 AIC		
.OAD	CKT		DESIGNATION			WIRE	LOAD	PL	AMPS	PHASE	PHASE	PHASE	AMPS	PL	LOAD	WIRE		DESIGNATION	СКТ	
CLS K	1	В	10.00 - CONVECTIO	N OVE	N	SIZE 3 #8,1#10G,3/4"C	VA 2880	3	40	A 3500	В	С	20	3	VA 620	SIZE 3 #12,1#12G,3/4"C	WALK IN	COOLER	2	CLS
K	3	-					1440			3300	2060		-	-	620 -	-		OCCLIN	4	0
K	5	Ε					1800	_				2420	-	_	620 -		-		6	0
K	7 9	В	10.00 - CONVECTIO	N OVE	.N	3 #8,1#10G,3/4"C	2880 1440		40	3040	1600	ı	20	3	160 160 -	3 #12,1#12G,3/4"C	COOLER	CONDENSER	8 10	0
K	11	+				-	1800	-	-	L	1600	1960		+=+	160				12	0
K		В	81.00 - RETHERMAL	_IZER		3 #6,1#10G,1"C	4950	_	60	5600			30	3	650	3 #10,1#10G,3/4"C	WALK IN	FREEZER	14	0
K	15		PARE				4950	1	20	[5600	650		-	650 -				16	0
	17 19		PARE				+	1	20	530		650	20	3	650 - 530	3 #12,1#12G,3/4"C	 FREEZEF	RCONDENSER	18 20	0
		S	PARE					1	20	555	530			-	530 -	-	-		22	0
	23		PARE					1	20			530		-	530 -				24	0
	25 27	_	PARE PARE				+	3	20	16469.867	13731.967	ı	225	3	16470 13732	3 #4/0,1#4G,2-1/2"C	PANEL A		26 28	X
			PARE					-		L	13/31.30/	13491.17			13491				30	X
Α		R	RTU-1			3 #3,1#8G,1 1/4"C	9967		90	44909.135			400	3		3 (2) #3/0,1#3G,2-1/2"C	PANEL B		32	Х
A	33	<u> </u>				-	9967	_	-	Į.	44012.47	44222.25	-	- [34045				34	X
A	35 37	P.	RTU-2			3 #3/0,1#6G,2"C	9967 21771	_	200	39706.72		44332.35	225	3	34365 17936	3 #4/0,1#4G,2-1/2"C	 PANEL C		36 38	X
A	39	<u> -`</u>				- 10/0/11/00/2 C	21771	_	_	33,00.72	42264.88			<u> </u>	20494				40	X
Α	41	<u> </u> -				-	21771	-				42324.17		-	20553				42	Х
							117354			113755.72	109799.32	105707.7		L	211908.73					
						LOAD SUMMARY														
			IEC	LOAD	LOAD CAT		CON LOAD			DEMAND LO		R PHASE	BALAN	ICED 3	P LOAD	MARK		REMARKS]
			FERENCE	ID			TOT KVA	_				PHASE C	KVA	-	AMP	*		HACR BREAKER		-
220	J. 12/22		.42/220.43/220.14(F) 220.14(I)(H), 220.44	L	LIGHTING RECEPTACE	Б.	8.74	_	1.00	4.35 1.94	2.00	2.39		8.74	24.26	**		RIP BREAKER TED TO FIRE SUPPRESSION	N SVQT	ΕW
			220.14(I)(H), 220.44 220.14(C)/430.24	R M	MOTORS:	.L.	9.24	_	1.00	0.50	3.20 0.37	4.10 0.87		9.24	25.65 4.84	#		ND/GFCI BREAKER	0 0]
			220.56	K		QUIPMENT:	222.40	_	0.65	49.13	49.87	45.56		4.56	401.25	***		TING CONTROL PANEL		1
		2	220.60/440.6/440.7	Α	AIR CONDI		95.21	-	1.00	31.74	31.74	31.74		5.21	264.29		•]
			220.51/220.60 220.14(A)	H	HEAT (ELEC		0.00	_	1.00	0.00 14.79	0.00	0.00		0.00	0.00	PHASE DEMAND LOAD	10.74	% UNBALANCE		
			220. 14(A)	0	SUB TOTAL		40.51 377.84	_	1.00	102.45	12.96 100.13	12.76 97.42		0.51	112.44 832.73	PH A	KVA 113.78	948 0.02		
					SPARE		377.01		10%	10.24	10.01	9.74		0.00	83.27	РН В	110.65	922 0		
210	0.20(A)		215.2(A)(1)/230.42(A)			US (ADD 25%):	8.74	_	0.25	1.09	0.50	0.60		2.19	6.06	PH C	107.76			
			220.14(C)/430.24		LARGEST M TOTAL:	IOTOR (ADD 25%):	0.00)		0.00	0.00	0.00		0.00	0.00	PROVIDE:	GROUND	BUS		
PANI	ELBO			's\\C22-		ron, NC (1517 NC 24-87)\	06 MEP\\Curr	ent C	D's\\Pa	113.78 nels\\[PANEL	110.65 popeye'S	107.76	33 [Xalx.O	2.19	922.07	A VOLTS:		O GROUND BUS UTRAL BUS Wed Sep 13, 202	23 11:17	7
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PANILOCA COAD CLS L L L L L L L R R R R R R	EL TY ATION CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 31 33 35 37 39 41	K S D D R R R R R R R R	DESIGNATION ITCHEN LTG / RECIPIED REVICE AREA LTG INNING ACCENT LTG ESTROOM LTG & E INTERIOR BLDG LTG INTERIOR BLGG INTERIOR BLGG INTERIOR BLGG INTERIOR BLGG INTERIOR RECEPTA INT	A NQ B.O. RC PUI	H. WP SEES CLES CLES	WIRE SIZE 2 #12,1#12G,3/4"C 3 #12,1#12G,3/4"C	LOAD VA 109 15 21 3 144 17 120 120 120 120 54 188 108 50 54 54 54 50 50 72 1225 RY TABLE CON LOAI TOT KVA 8.77 6.1.1 0.0.0 0.0.0 0.0.0 21.3	PL 2 1 0 1 6 1 5 1 6 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7	20 20 20 20 20 20 20 20 20 20 20 20 20 2	PHASE A 1917	- popeye'S PHASE B 650 1348 2400 360 1080 5500 11878 DAD(KVA) PI PHASE B 2.00 2.11 0.00 0	107.76 MAIN SIZI MAIN TYPE BUS TYPE: PHASE C 2000 1020 1040 5540 720 11570 ER PHASE C PHASE C 2.382 2.282 2.282 2.000 0.000	333 FO x S x	S PL 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	922.07 225 MLO COPPER LOAD VA 825 500 500 1200 360 1200 360 1200 360 1200 5000 5000 540 5000	PHASE/WIRE: MOUNTING: PANEL IC RATING: WIRE 51ZE 2 #12,1#12G,3/4"C 3 #6,1#10G,1"C	SITE LIG MONUM HAND D - DT MEN DT ORD DT UG E DT PRE EXTERIC DT MEN DT ORD DT UG E SPARE DINING I SPARE WH-1 SPARE WH-1 SPARE WH-1 PROVID GROUNI PROVID VIA LIGH	Wed Sep 13, 202 120/208	2 4 4 6 6 8 8 10 11 11 12 12 12 12 12 12 12 12 12 12 12	CT L() () () () () () () () () (
PANILOCA COAD CLS L L L L L L L R R R R R R	EL TY ATION CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 31 33 35 37 39 41	K S D D R R R R R R R R	DESIGNATION CITCHEN LTG / RECIFERVICE AREA LTG DINING LTG DINING ACCENT LTG ESTROOM LTG & E CITCHEN SIGNAGE UILDING SIG	A NQ B.O.	H. MP SES CLES	WIRE SIZE 2 #12,1#12G,3/4"C 3 #12,1#12G,3/4"C	LOAD VA 109 15 21 3 14 17 120 120 120 120 120 54 18 108 50 54 54 54 50 72 71225 IRY TABLE CON LOAI TOT KVA 6.1 1.0 0.0 0.0	PL 2 1 0 1 6 1 5 1 6 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7	20 20 20 20 20 20 20 20 20 20 20 20 20 2	PHASE A	- popeye'S PHASE B 650 1348 2400 360 1080 5500 11878 DAD(KVA) PI PHASE B 2.00 2.11 0.00 0.00 0.00 0.00 11.88	107.76 2124 PRO1 MAIN SIZI MAIN TYPE BUS TYPE: PHASE C 2000 1020 1040 5540 720 11570 PHASE C 2.84 0.0.5(5) 0.0.00 0.00 0.00 0.00 0.00 0.5 5.88 3 11.5	333 FO x S x BE:	S PL 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	922.07 225 MLO COPPER LOAD VA 825 500 500 1200 360 1200 360 1200 540 540 5000 5000 5000 5000 5000 5000 1200 5000 5000 5000 6000 17.15 17.15 17.15 17.18	PHASE/WIRE: MOUNTING: PANEL IC RATING: WIRE \$12E 2 #12,1#12G,3/4"C	SITE LIG MONUM HAND D - DT MEN DT ORD DT ORD DT ORD DT ORD DT ORD DT ORD DT ORD DT ORD DT ORD DT ORD SPARE S	Wed Sep 13, 202 120/208	2 4 4 6 6 8 8 10 11 11 12 12 12 12 12 12 12 12 12 12 12	CT L() () () () () () () () () (
PANIL OCA	EL TY ATION CKT 1 3 5 7 9 11 13 15 17 19 21 23 31 35 37 39 41		DESIGNATION ITCHEN LTG / RECIFERVICE AREA LTG INING LTG INING LTG INING ACCENT LTG IESTROOM LTG & E INING SIGNAGE IUILDING S	A NQ B.O.	H. MP SEES CLES CLES CLES CLES CLES CLES CLE	WIRE SIZE 2 #12,1#12G,3/4"C 3 #12,1#12G,3/4"C 2 #12,1#12G,3/4"C 2 #12,1#12G,3/4"C 3	LOAD VA 1099 155 211 3 144 177 1200 1200 1200 1200 54 188 108 500 54 54 54 50 50 72 1225 RYTABLE CON LOAH TOT KVA 8.7 6.1. 1.0 0.0 0.0 0.1 37.2	PL 2 11 0 16 17 18 11 17 19 19 19 19 19 19 19 19 19 19 19 19 19	20 20 20 20 20 20 20 20 20 20 20 20 20 2	PHASE A 1917 1535 1560 13832 13832 1.22 0.50 0.00 0.00 0.00 0.00 0.00 13.83 1.38 1.09	PHASE B 2400 360 1080 540 5500 11878 PHASE B 2.00 0.00 0.00 0.00 11.83 1.11 0.50	107.76 2124 PRO1 MAIN SIZI MAIN TYPE BUS TYPE: PHASE C 716 1020 1020 1040 5540 720 11570 720 11570 720 11570 720 11570 720 11570 730 741 750 750 760 770 770 770 770 770	333 FO x S x AMP: E: 20 20 20 20 20 20 20 20 20 20 20 20 20	S PL 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	922.07 225 MLO COPPER LOAD VA 825 500 500 1200 360 1200 800 1200 540 540 540 5000 6000 6000 6000 6000 6000 6000 6000 6000 6000 6000 6000 6000	PHASE/WIRE: MOUNTING: PANEL IC RATING: WIRE \$12E 2 #12,1#12G,3/4"C 4 #12,1#12G,3/4"C 2 #12,1#12G,3/4"C MARK ** A PHASE DEMAND LOAD PH A PH B PH C	SITE LIG MONUM HAND D - DT MEN DT ORD DT UG E DT PRE EXTERIC DT MEN DT ORD DT UG E DT PRE SPARE WH-1 - SPARE SPARE WH-1 - SPARE WH-1 - SPARE SPARE SPARE WH-1 - SPARE SPARE SPARE WH-1 - SPARE SP	Wed Sep 13, 202 120/208	2 4 4 6 6 8 8 10 11 11 12 12 12 12 12 12 12 12 12 12 12	CT L() () () () () () () () () (
PANIL OCA	EL TY ATION CKT 1 3 5 7 9 11 13 15 17 19 21 23 31 35 37 39 41		DESIGNATION LITCHEN LTG / RECIPIERVICE AREA LTG ERVICE AREA LTG INNING ACCENT LTG EESTROOM LTG & E LITCHEN LTG / SIGNAGE LUILDING ROOM RECEPTA LESTROOM RECEPTA LESTROOM RECEPTA LESTROOM RECEPTA LITCHEN CONV. REC LITCHEN CO	A NQ B.O.	H. MP SEES CLES CLES CLES CLES CLES CLES CLE	WIRE SIZE 2 #12,1#12G,3/4"C 3 #12,1#12G,3/4"C 2 #12,1#12G,3/4"C 2 #12,1#12G,3/4"C 3	LOAD VA 109 15 21 3 144 17 120 120 120 120 54 18 108 50 54 54 54 50 50 72 1225 IRY TABLE CON LOAI TOT KVA 8.7 6.1 1.0 0.0 0.0 0.0 21.3 37.2	PL 2 11 0 16 17 18 11 17 19 19 19 19 19 19 19 19 19 19 19 19 19	20 20 20 20 20 20 20 20 20 20 20 20 20 2	PHASE A 1917 1535 1560 13832 13832 1.22 0.50 0.00 0.00 0.00 0.00 0.00 13.83 1.38 1.09	- popeye'S PHASE B 650 1348 2400 360 1080 540 5500 11878 OAD(KVA) PI PHASE B 2.00 0.00 0.00 0.00 0.00 11.88 1.11 0.05 0.01	107.76 2124 PRO1 MAIN SIZI MAIN TYPE PHASE C 716 534 1020 1040 1040 5540 720 11570 PHASE 2 2.84 0 0.55 0 0.00 0 0.00 0 0.00 5 5.84 3 11.5: 0 0.66 7 0.1:	333 FO.xisxii E: :	S PL 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	922.07 225 MLO COPPER LOAD VA 825 500 500 1200 360 1200 360 1200 360 1200 540 5000 5000 5000 5000 5000 5000 5000 5000 5000 5000 5000 17.15 2.78 0.00 0.00 0.00 59.29 103.48 10.35	PHASE/WIRE: MOUNTING: PANEL IC RATING: WIRE \$12E 2 #12,1#12G,3/4"C	SITE LIG MONUM HAND D - DT MEN DT ORD DT UG E DT PRE EXTERIC DT MEN DT ORD DT UG E SPARE DINING I SPARE WH-1	Wed Sep 13, 202 120/208	2 4 4 6 6 8 8 10 11 11 12 12 12 12 12 12 12 12 12 12 12	CT L() () () () () () () () () (

PAN	EL TY	PE:	NQ						MAIN TYPI	<u>:</u>	r	MLO	PHASE/WIRE:		3/4			
OCA	ATIOI		B.O.H.						BUS TYPE:		cc	OPPER	MOUNTING:		SURFACE			1
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CLS	CKI	DESIGNATION		SIZE	VA	PL AIVIPS	A	B	C	AIVIPS		VA	SIZE		DESIGNATIO	ON	CKI	CLS
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		A31.00 MARINATOR		2 #12,1#12G,3/4°C		1 20	2010	7797	1		3		3 #4,1#8G.1 1/4"C			ECTRIC) **	4	K
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		SHUNT TRIP			3721		<	572.	184	15		184	2_#12,1#126,3/4 6	A47.20-B		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	12	
K		A24.U2 - FRYER (ELE	CTRIC) **	3 #6,1#10G,1"C	5644	3 60	7084	I			1		2 #12,1#12G,3/4"C	K30.00 - D			14	К
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		SHUNT TRIP			1)	360	1	20		360 2	2 #12,1#126,3/4 6	K42.00 BA	G-N-BOX	RECEPTACLE **	28	
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R		MANAGERS DESK		2 #12,1#12G,3/4"C		1 20			998	- 1	-	458 -		-			36	0
R	37	MANAGERS DESK		2 #12,1#12G,3/4"C	360	1 20	720	1		/15	7	360 2	2/#12,1#12G,3/4"C	K10.00,-10	EMAKE	*** \	38	10
М	39	EF-1		2 #12,1#12G,3/4"C	372	1 20		556	1 (20	1		2 #12,1#12G,3/4"C	A47.20 - B	ATTER CA	ART **	40	K
М		EF-2		2 #12,1#12G,3/4"C		1 20			7096	70	3		3 #4,1#8G.1 1/4"C	A10.30 - F	RYER (EL	.ECTRIC) **	42	K
K	43	D29.30 HOT FOOD W	ELL	2 #12,1#12G,3/4"C		2 20	7327		(-	6724	,		,	,	44	K
₩/	45				603			7327	1 \		-	6724 -	-				46	K
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	49	SHUNT TRIP				- -	3122]		35	3	3122 3	3 #8,1#10G,3/4"C	D93.1 - HC	DLDING BI	N **	50	K
ΚŢ		A49.00 DRUMROLL **		2 #12,1#12G,3/4"C	, 192	1 20		3314	1 /		-	3122 -	-				52	K
	53	SPARE				1 20			3122			3122 -	-				54	K
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	CODE	REFERENCE	ID LOAD	CATEGORI	TOT KVA				PHASE C	KVA		AMP	*	PROVIDE		EAKER		1
		20.42/220.43/220.14(F)	L LIGHTI	NG	0.00	1.00	0.00				.00	0.00	**	GROUND				1
		220.14(I)(H), 220.44	R RECEP		2.70	1.00	0.72				.70	7.49	٨		ED TO FIF	RE SUPPRESSION	I SYS	тЕм
		220.14(C)/430.24	M MOTO		0.74	1.00	0.72	0.72			.74	2.07	#	IG GROUN				ī
		220.14(C)/430.24		EN EQUIPMENT:	131.82	0.65	29.42	29.29			.68	237.83	***			ROL PANEL		4
		220.60/440.6/440.7		ONDITION:	0.00	1.00	0.00	0.00			.00	0.00		I VIV LICITII	110 00111	NOET / NILL		-
		220.51/220.60		ELECTRIC):	0.00	1.00	0.00	0.00			.00	0.00	PHASE DEMAND LOAD			% UNBALANCE	_	_
		220.14(A)		R LOAD:	4.49	1.00	1.51	0.46			.49	12.47	THASE DEIVIAND LUAD	KVA	AMPS	70 ONDALANCE		
		223.17(1)	SUB TO		139.76	1.00	31.65				.62	259.86	PH A	34.94	291	0.01		
			SPARE		133.76	10%	3.17	3.08			.36	25.99	PH B	34.94	284			
21	0.20(4)/215.2(A)(1)/230.42(A)	J. ARE		0.00	10/0	0.00	0.00			.00	0.00	PH C	34.03	286			
41	5.20(A	220.14(C)/430.24	IADCE	ST MOTOR (ADD 25%):	0.00	25%	0.00	0.00			.37	1.03	PROVIDE:	GROUND I		U		
				TAL:	0.37	2370	34.94	34.05			_	286.88		ISOLATED) BUS		
			10	TAL.	+ +		34.94	34.03	34.37	1 103	.55	200.00		100% NEU				
			11000 100 0	ameron, NC (1517 NC 24-87)\	I DO MEDINO	LODI ND	LINDANIEL							. 50 /0 1120		Wed Sep 13, 2020	2.44.4	7 7



DRAW	INGS REVIS	ED AS PER DESIGN BULLETIN
No.	Date	Description



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Company Logo





popeyes

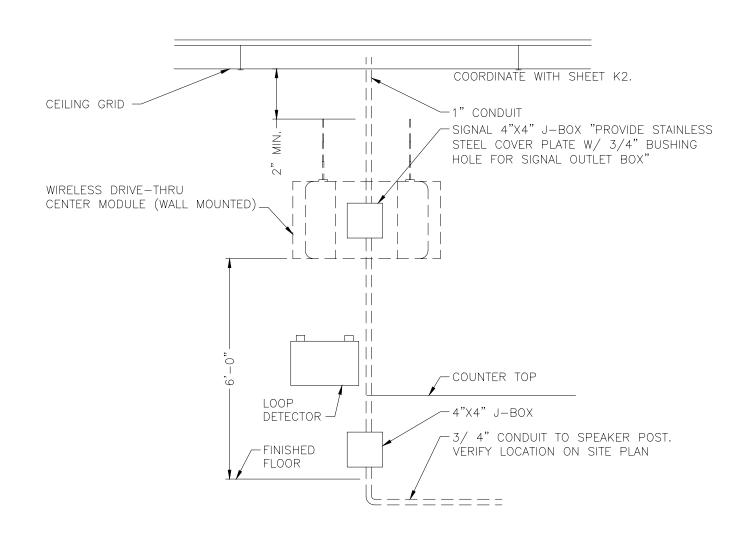
Type
US 2112 PROTOTYPE
2112-21

1517 NC 24-87 CAMERON, NC

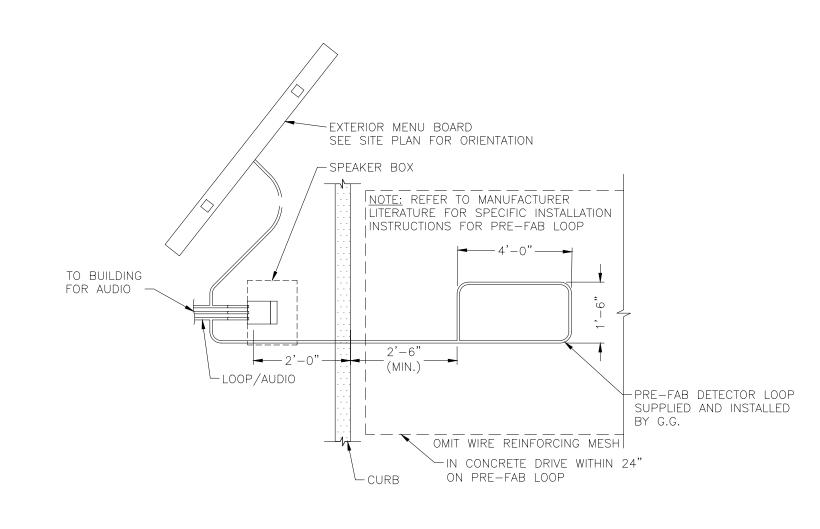
awing Title

ELECTRICAL SCHEDULES

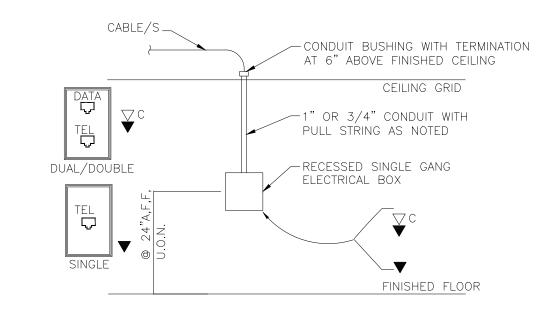
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Scale	Date
NOT TO SCALE	JUNE 2023
Project No.	Drawing No.
C22-129	E2.1



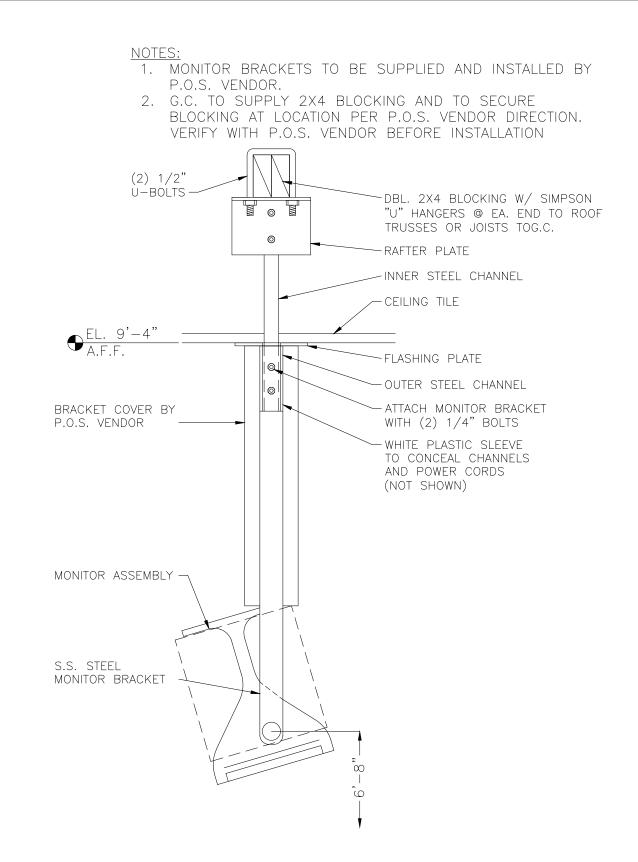
- DRIVE-THRU AUDIO/TIMERS



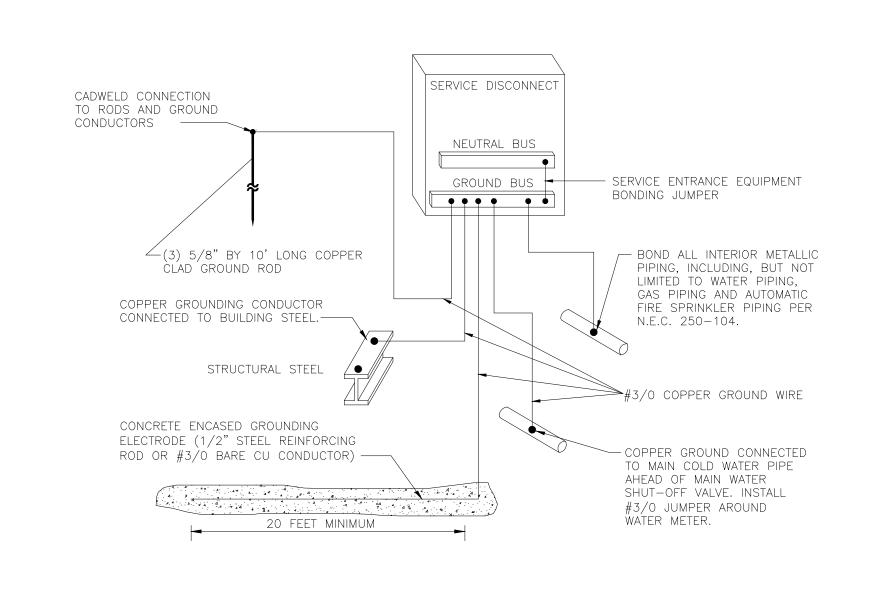
OS DRIVE-THRU LOOP DETECTOR NOT TO SCALE



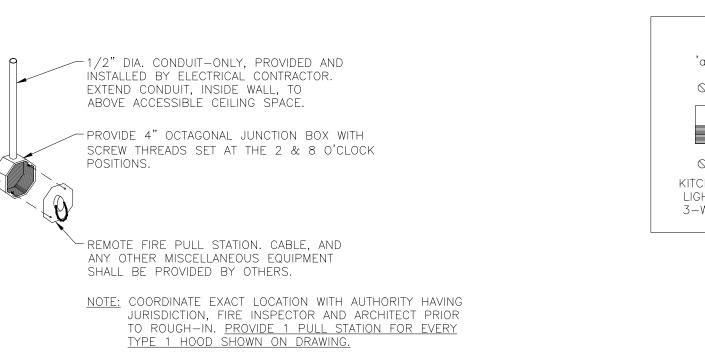
REMOTE HOOD FIRE PULL STATION NOT TO SCALE



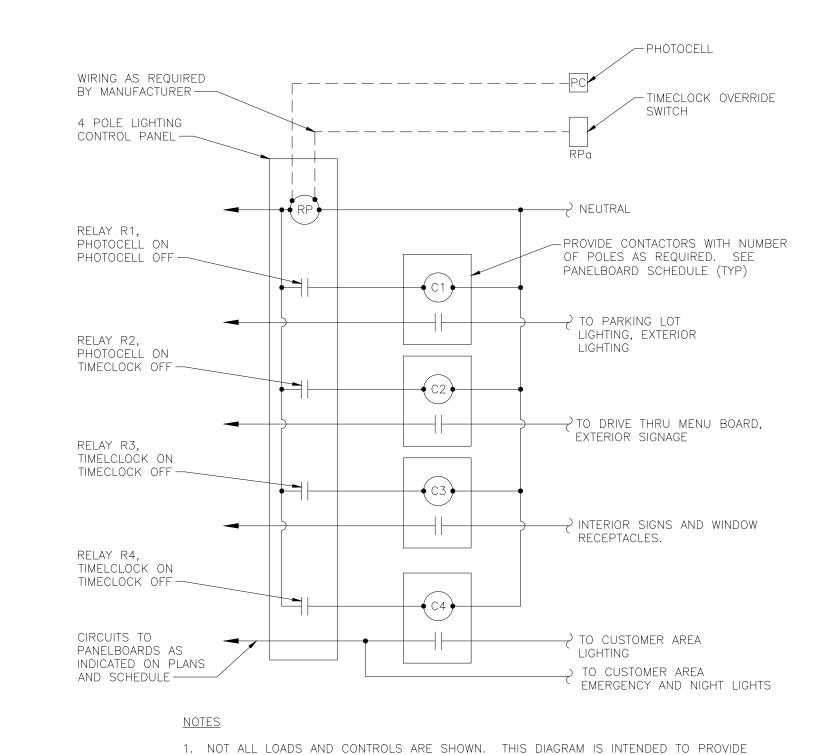
MONITOR BRACKET DETAIL
NOT TO SCALE



SERVICE ENTRANCE GROUNDING NOT TO SCALE



7 SWITCH BANK DETAIL

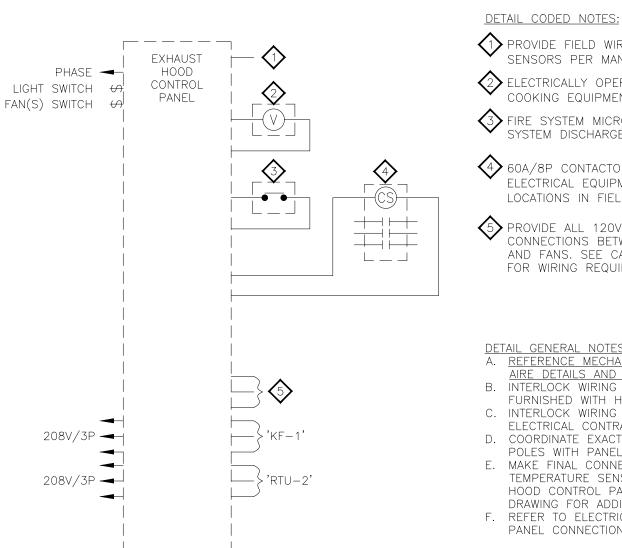


LIGHTING CONTROL DIAGRAM NOT TO SCALE

GENERAL WIRING AND CONTROL INTENT ONLY.

2. PROGRAM LIGHTING CONTROL PANEL AS DIRECTED BY OWNER.

3. MINIMUM INTERRUPTING RATING FOR ALL RELAYS AND CONTACTORS SHALL BE 10,000 A.I.C.



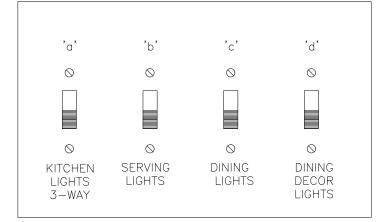
- PROVIDE FIELD WIRING TO HOOD TEMPERATURE SENSORS PER MANUFACTURER'S SPECIFICATIONS. 2 ELECTRICALLY OPERATED GAS VALVE FOR
- COOKING EQUIPMENT BY OTHERS (IF REQUIRED). FIRE SYSTEM MICRO SWITCH, OPENS WHEN FIRE SYSTEM DISCHARGES.
- 4 60A/8P CONTACTOR WITH 120V COIL FOR ELECTRICAL EQUIPMENT UNDER HOOD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

 A. REFERENCE MECHANICAL DRAWINGS FOR CAPTIVE AIRE 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.

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

1 HOUR

OVERRIDE



SWITCHES SHALL BE PILOT LIT SWITCHES

INTERIOR SIGNS 4 CUSTOMER AREA LIGHTING RP a

PER CODE AND LABELED AS SHOWN ABOVE PROGRAM SWITCH TO OVERRIDE ASSOCIATED RELAY ON FOR 1 HOUR. SWITCHES SHALL BE PILOT LIT PER CODE. . PROVIDE MACHINE MADE LABELS AS SHOWN.

EXTERIOR SECURITY LIGHTING

EXTERIOR SIGNS AND MENUS

Date Description **REVISIONS** No. Date Description 8/01/2023 RESPONSE TO CITY HEALTH COMMENTS 2 9/04/2023 3 9/12/2023 RESPONSE TO CITY

ISSUE TABLE

DRAWINGS REVISED AS PER DESIGN BULLETIN Description



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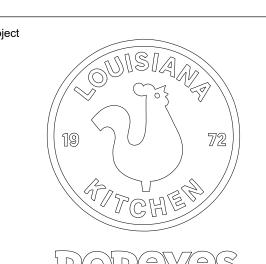
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9.13.2023

Company Logo

10755 SANDHILL ROAD, DALLAS, TEXAS 75238 TEL: 214-343-9400 <u>www.dimensiongrp.com</u>



1517 NC 24-87

US 2112 PROTOTYPE

2112-21

CAMERON, NC

ELECTRICAL DETAILS

Checked AH NOT TO SCALE JUNE 2023 Project No. Drawing No. C22-129 E3.1

"MORNING ARRIVAL"

TURN THE KITCHEN UNOCCUPIED-OCCUPIED SWITCH TO THE THE OCCUPIED POSITION. THE KITCHENS AIR CONDITIONING SYSTEM WILL GO FROM NIGHT SETBACK MODE TO THE THERMOSTAT SET POINT.

NOTE: THE AIR CONDITIONING FAN WILL START AND RUN CONTINUOUSLY. EXHAUST FAN WILL NOT RUN UNTIL THIS SWITCH IS IN THE OCCUPIED POSITION.

TURN ON THE EXHAUST FAN SWITCH TO THE ON POSITION THIS WILL ALLOW YOU TO TURN ON THE

"RESTAURANT OPEN FOR

BUSINESS

STEP 1 TURN THE DINING UNOCCUPIED-OCCUPIED SWITCH TO THE THE OCCUPIED POSITION. THE DINING AIR CONDITIONING SYSTEM WILL GO FROM NIGHT SETBACK MODE TO THE THERMOSTAT SET POINT.

TURN THE SIGN AND PARKING LOT LIGHTING SWITCHES TO THE AUTO POSITION, THIS WILL ENGAGE THE LIGHTING PHOTOCELLS SO THAT THE LIGHTS WILL AUTOMATICALLY COME ON AFTER DARK. TURN THE SWITCH TO THE ON POSITION TO OVER RIDE THE PHOTOCELLS AT ANY TIME THE LIGHTING MUST

"RESTAURANT CLOSE FOR **BUSINESS**

TURN THE DINING UNOCCUPIED-OCCUPIED SWITCH TO THE UNOCCUPIED POSITION. THE DINING AIR CONDITIONING SYSTEM WILL GO FROM THE THERMOSTAT SET POINT TO THE NIGHT SET BACK

STEP 2

TURN THE SIGN AND PARKING LOT LIGHTING SWITCHES TO THE OFF POSITION, THIS WILL DISENGAGE THE LIGHTING PHOTOCELLS. STEP 3

TURN THE EXHAUST FAN SWITCH TO THE OFF POSITION. THE UNDER HOOD COOKING EQUIPMENT WILL TURN OFF AND THE EXHAUST FAN WILL CONTINUE TO RUN FOR 15 MINUTES FOR A COOL DOWN CYCLE, AND THEN SHUT OFF AUTOMATICALLY.

NOTE: TO PREVENT ACCIDENTAL ANSUL DISCHARGE,

ONE OF THE HOODS EXHAUST FANS WILL RUN 15 MINUTES AFTER THE EXHAUST FAN SWITCH IS TURNED TO THE OFF POSITION.

"EMPLOYEES LEAVING THE

STEP 1 WHEN READY TO EXIT THE BUILDING PUSH THE SECURITY DEPARTURES SWITCH. THE PARKING LOT LIGHTS WILL COME BACK ON FOR 15 MINUTES THEN

SHUT OFF AUTOMATICALLY.

"MANAGER/LAST PERSON LEAVING THE BUILDING"

STEP 1

TURN THE KITCHEN UNOCCUPIED-OCCUPIED SWITCH TO THE UNOCCUPIED POSITION. THE KITCHENS AIR CONDITIONING SYSTEM WILL GO FROM THE THERMOSTAT SET POINT TO THE NIGHT SET BACK

STEP 2

WHEN READY TO EXIT THE BUILDING PUSH THE SECURITY DEPARTURE SWITCH. THE PARKING LOT LIGHTS WILL COME BACK ON FOR 15 MINUTES THEN SHUT OFF AUTOMATICALLY.

"HOOD VENTILATION SYSTEM

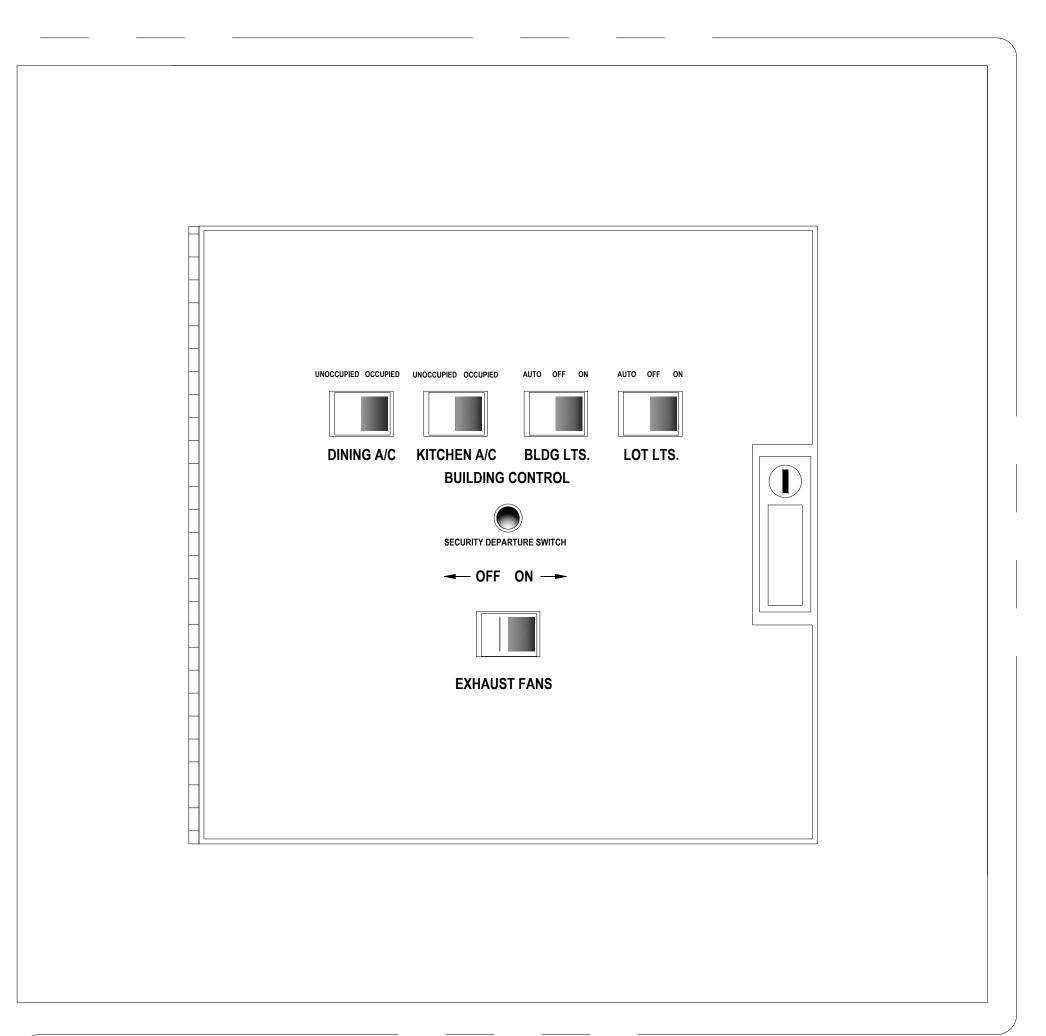
WHEN THE HOOD EXHAUST FAN CURRENT SENSOR DETECTS A DROP IN AMPERAGE (SUCH AS A BELT BREAKING) IT WILL DISABLE THE LINE VOLTAGE TO THE COOKING EQUIPMENT UNDER THE HOOD. THE EXHAUST FAN SWITCH SHOULD BE PLACED IN THE OFF POSITION AND THE FAN SHOULD BE CHECKED AND/OR REPAIRED BEFORE TURNING THE SWITCH TO

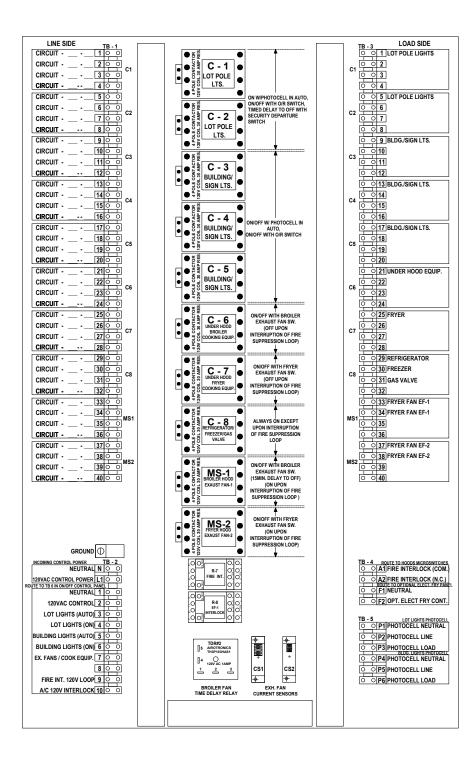
"PARKING LOT LIGH<u>TING NOTE"</u>

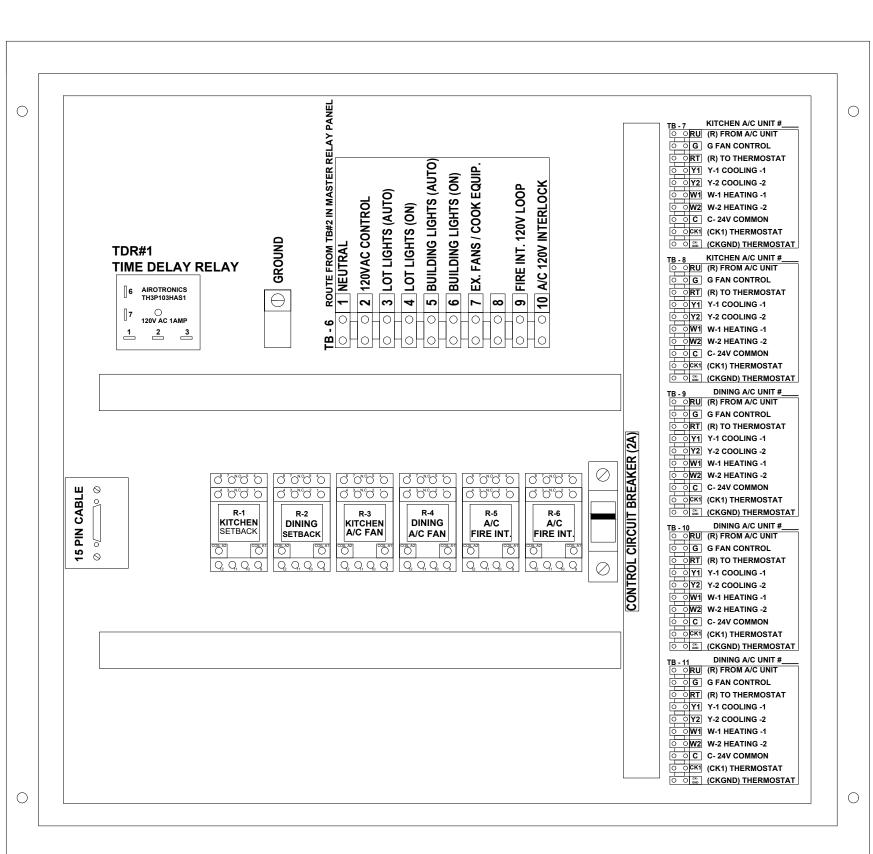
WHEN THE PARKING LOT LIGHTS ARE TURNED OFF, THEY MUST COOL DOWN FOR ABOUT 10 MINUTES BEFORE THEY WILL COME BACK ON.

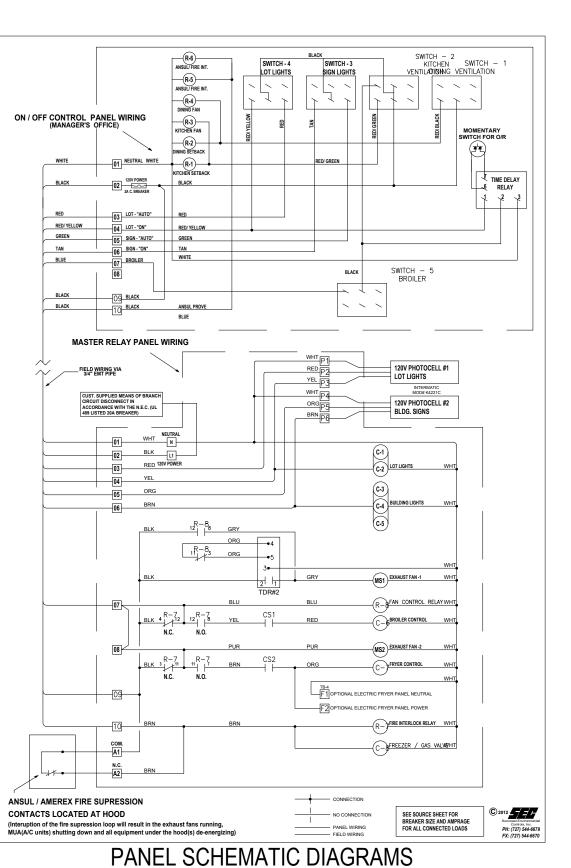
*NOTE: Current sensors are factory wired but must be field adjusted for proper operation. With the hood exhaust fans running, spin the potentiometer dials counterclockwise until the status "OFF" green LED lights and cooking equipment contactors de-energize. Then turn dials back clockwise one full turn. If the current sensors are improperly adjusted, cooking equipment may not shut off should a hoods exhaust fan fail. If the cooking equipment fails to operate while the hood switches are on and the exhaust fans are running, spin the appropriate setpoint dial clockwise until the status "ON" red LED lights.

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POPEYES

SEQUENCE OF OPERATION

MANUAL CONTROL SYSTEM

THE A/C UNITS UNOCCUPIED-OCCUPIED SWITCH IS USED TO: TURN THE STORE ON IN THE MORNING AND OFF IN THE EVENING.

- WHEN A/C UNIT UNOCCUPIED-OCCUPIED SWITCH IS TURNED TO THE ON POSITION: THE AIR CONDITIONING SYSTEM WILL GO FROM NIGHT MODE TO SYSTEM ON.
- THE AIR CONDITIONING FANS WILL START AND RUN CONTINUOUSLY.
- THE OUTDOOR DAMPERS WILL OPEN TO A PRESET POSITION. (OPTIONAL)
- DAMPERS WILL NOT OPEN DURING NIGHT SET BACK MODE. (OPTIONAL)
- THE AIR CONDITIONERS WILL BEGIN TO COOL OR HEAT AT THE OCCUPIED TEMPERATURE SETPOINT.
- THE COOKING EQUIPMENT AND EXHAUST FANS CAN NOW BE TURNED ON WHEN NEEDED.
- WHEN A/C UNOCCUPIED-OCCUPIED SWITCH IS TURNED TO THE OFF POSITION: EXHAUST FANS, SUPPLY FANS, AND EVAPORATOR BLOWERS WILL SHUT DOWN.
- THE HEATING AND COOLING OPERATION SHALL REVERT TO SYSTEM NIGHT SET BACK MODE.
- THE COOKING EQUIPMENT SHALL BE DISABLED.
- THE SIGNAGE LIGHTING & LOT LIGHTING SHALL BE DISABLED IF SWITCHES ARE IN THE OFF POSITION.
- THE PARKING LOT POLE LIGHTS & SECURITY LIGHTS SHALL REMAIN ON FOR 15 MIN AFTER THE SECURITY DEPARTURE SWITCH IS ACTIVATED. WHEN THE HOOD EXHAUST FAN CURRENT SENSOR DETECTS A DROP IN AMPERAGE

IT WILL DISABLE THE LINE VOLTAGE TO THE COOKING EQUIPMENT UNDER THE HOOD.

HOOD VENTILATION SYSTEM IF THE KITCHEN A/C SWITCH IS IN THE OCCUPIED POSITION, THE HOOD VENTILATION SYSTEM CAN BE STARTED.

THE UNDER HOOD EQUIPEMENT SHALL BE STARTED BY MOVING THE EXHAUST FANS ON/OFF SWITCH TO THE ON POSITION. IF THE THE EXHAUST FAN SWITCH IS IN THE ON POSITION, THE MAKE-UP AIR UNIT (IF APPLICABLE) SHALL START AUTOMATICALLY.

ACTIVATION OF THE HOOD FIRE SUPPRESSION SYSTEM SHALL DE-ENERGIZE THE MAKE UP AIR UNIT, ALL A/C UNITS, AND THE CONTROLLED COOKING EQUIPMENT. THE HOODS EXHAUST SYSTEM SHALL CONTINUE TO OPERATE TO DRAW OUT SMOKE. THE FIRE SUPPRESSION SYSTEM SHALL BE MANUALLY RESET.

EXTERIOR LIGHTING CONTROL

ALL OF THE EXTERIOR LIGHTING SHALL BE CONTROLLED, WITH THE EXCEPTION OF THE SECURITY LIGHTS WHICH SHALL BE OPERATED BY ITS OWN PHOTOCELL. SECURITY LIGHTING IS OPTIONAL.

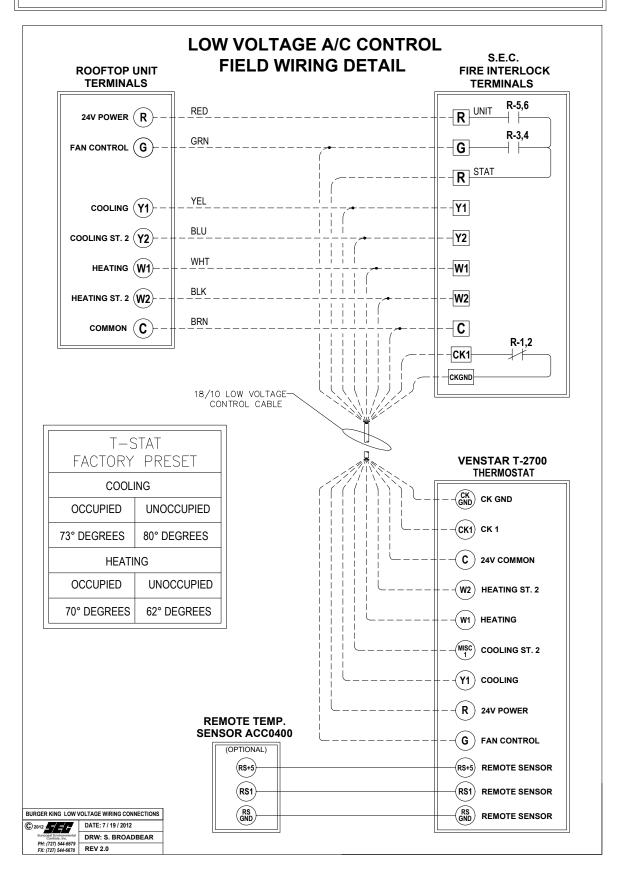
THE SIGNAGE SELECTOR SWITCH (3-POS.) CONTROLS THE PRIME SIGN, ALL MARQUEE SIGNS, AND BULUIDING ACCENT LIGHTING.

ON POSITION: LIGHTING SHALL BE ON PERMANENTLY. OFF POSITION: LIGHTING SHALL BE OFF PERMANENTLY.

AUTO POSITION: LIGHTING SHALL BE CONTROLLED BY THE PHOTO CELL.

THE LOT LIGHTS THREE POSITION SWITCH WORKS THE SAME AS THE SIGNAGE SWITCH.

NOTE: UNOCCUPIED-OCCUPIED / MASTER RELAY PANEL SHALL BE COMPLETE WHEN SHIPPED TO THE JOB SITE. NO INTERNAL WIRING SHALL BE REQUIRED. MAKE ALL EXTERNAL WIRING CONNECTIONS AS REQUIRED.



ELECTRICAL CONTRACTOR NOTES:

- 1. RUN ONE (10) CONDUCTOR 18 GAUGE THERMOSTAT CABLE FROM THE ROOFTOP AIR CONDITIONING UNIT TO THE "UNOCCUPIED-OCCUPIED" PANEL.
- 2. RUN ONE (10) CONDUCTOR 18 GAUGE THERMOSTAT CABLE FROM THE "UNOCCUPIED-OCCUPIED" PANEL TO THE THERMOSTAT LOCATION.

IF NOT CONTROLLED WITH P-374-2700 T-STAT. REFER TO SHEET M-1

- RUN ONE (10) CONDUCTOR 18 GAUGE THERMOSTAT CABLE FROM THE ROOFTOP AIR CONDITIONING UNIT TO THE NIGHT SETBACK THERMOSTAT LOCATION,
- 4. TERMINATION OF ALL 24 VOLT AIR CONDITIONING CONTROL WIRING SHALL BE DONE BY THE MECHANICAL CONTRACTOR.
- 5. ELECTRICAL CONTRACTOR SHALL RUN LINE VOLTAGE FROM THE CURRENT SENSOR LOCATED IN THE BROILER HOOD EXHAUST FAN TO THE CONTACTOR PANEL
- HVAC INTERLOCK PANEL NFPA-96 COMPLIANT

LOCATED BY THE SWITCHGEAR.

ISSUE TABLE Date Description **REVISIONS**

No. Description 8/01/2023 RESPONSE TO CITY HEALTH COMMENTS 2 9/04/2023 3 9/12/2023 RESPONSE TO CITY

DRAWINGS REVISED AS PER DESIGN BULLETIN Date



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INFRINGEMENT IS A VIOLATION OF FEDERAL LAW SUBJECT TO CRIMINAL AND



9.13.2023

Company Logo



US 2112 PROTOTYPE

1517 NC 24-87

2112-21

CAMERON, NC

ELECTRICAL DETAILS

Checked AH NOT TO SCALE JUNE 2023 Project No. Drawing No. E3.2 C22-129

Project Information

Energy Code: 2018 IECC Project Title: Popeye's Project Type: **New Construction**

Construction Site: Owner/Agent: Designer/Contractor: 1517 NC 24-87 The Dimension Group Cameron, NC 10755 Sandhill Road Dallas, TX 75238 Additional Efficiency Package(s) 214 343 9400

Credits: 1.0 Required 1.0 Proposed High Performance HVAC, 1.0 credit **Allowed Interior Lighting Power**

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watt (B X C)
1-Dining: Cafeteria/Fast Food	6000	0.79	4740
		Total Allowed Watts :	= 4740

Proposed Interior Lighting Power

A Fixture ID:Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	(C X D)
1-Dining: Cafeteria/Fast Food				
LED 1: A/AE: 2X4 LED TROFFER: LED Panel 54W:	1	23	52	1196
LED 2: L-1: LED SUSPENDED: LED Linear 20W:	1	11	18	198
LED 3: L-9: LED SUSPENDED: LED Linear 22W:	1	1	30	30
LED 4: LL4: 6" RECESSED LED DOWNLIGHT: LED A Lamp 12W:	1	17	12	196
LED 5: L-4: LED ACCENT LIGHT: LED A Lamp 12W:	1	3	12	36
		Total Propos	sed Watts =	1656

nterior Lighting PASSES: Design 65% better than code

Interior Lighting Compliance Statement Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory

requirements listed in the Inspection Checklist. 25 May 2023 Jennifer Pfankuch - MEP Designer Name - Title

Data filename: C:\Good Sync Projects\Popeye's\C22-129 Cameron, NC\06 MEP\ComCheck\POPEYES.CAMERON, Page 1 of 19 COMCHECK.cck

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each

requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception

is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

COM*check* **Software Version 4.1.5.5**

Requirements: 96.0% were addressed directly in the COM*check* software

COM*check* **Software Version 4.1.5.5 Exterior Lighting Compliance Certificate**

Footing / Foundation Inspection

payement temperature and outdoor

Additional Comments/Assumptions:

temperature. future connection to

C403.12.2 Snow/ice melting system and freeze Complies

protection systems have sensors and Does Not

☐Not Applicable

2403.12.3 controls configured to limit service for Not Observable

& Req.ID

Construction Site: 1517 NC 24-87

Exterior Lighting PASSES: Design 33% better than code

Exterior Lighting Compliance Statement Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Gennifer Pfankuch Jennifer Pfankuch - MEP Designer Name - Title

25 May 2023

COMcheck Software Version 4.1.5.5

Mechanical Compliance Certificate

Project Information Energy Code: 2018 IECC

Proiect Title: Popeye's Cameron, North Carolina Location: Climate Zone: Project Type: New Construction

Construction Site: Owner/Agent: Designer/Contractor: 1517 NC 24-87 The Dimension Group Cameron, NC 10755 Sandhill Road Dallas, TX 75238 Additional Efficiency Package(s) 214 343 9400

Credits: 1.0 Required 1.0 Proposed High Performance HVAC, 1.0 credit

Mechanical Systems List Quantity System Type & Description

1 HVAC System 2 (Single Zone): Heating: 1 each - Central Furnace, Electric, Capacity = 11 kBtu/h No minimum efficiency requirement applies Cooling: 1 each - Hydronic Coil, Capacity = 60 kBtu/h, Air Economizer

No minimum efficiency requirement applies Fan System: None 1 HVAC System 3 (Single Zone): Heating: 1 each - Central Furnace, Electric, Capacity = 44 kBtu/h No minimum efficiency requirement applies Cooling: 1 each - Hydronic Coil, Capacity = 151 kBtu/h, Air Economizer No minimum efficiency requirement applies

Water Heater 1:

Electric Storage Water Heater, Capacity: 50 gallons w/ Circulation Pump Proposed Efficiency: 0.84 SL, %/h (if > 12 kW), Required Efficiency: 0.84 SL, %/h (if > 12 kW)

Mechanical Compliance Statement

COMCHECK.cck

[ME41]³ sensible heating panels have

radiation.

insulation >= R-3.5.

C403.11.3 HVAC piping insulation insulated in

[ME61]² accordance with Table C403.11.3.

C403.11.3 HVAC piping insulation insulated in

[ME61]² accordance with Table C403.11.3.

C403.8.1 HVAC fan systems at design

C403.8.1 HVAC fan systems at design

system bhp.

Insulation exposed to weather is

provided with shielding from solar

Insulation exposed to weather is

provided with shielding from solar

[ME65]³ conditions do not exceed allowable

[ME65]³ conditions do not exceed allowable Does Not

C403.8.3 Fans have efficiency grade (FEG) >= \square Complies

C403.8.3 Fans have efficiency grade (FEG) >= \square Complies

[ME117]² 67. The total efficiency of the fan at \square Does Not

C403.12.1 Systems that heat outside the building Complies

[ME71]² envelope are radiant heat systems Does Not

C403.2.2 Natural or mechanical ventilation is Complies

C403.7.1 Demand control ventilation provided Complies

air damper control, or design airflow

device or timer switch.

[ME59]¹ provided in accordance with

[ME59]¹ for spaces >500 ft2 and >25

Project Title: Popeye's

C403.2.3 HVAC equipment efficiency verified.

International Mechanical Code

to minimum per IMC Chapter 4.

[ME117]² 67. The total efficiency of the fan at \square Does Not

of maximum total efficiency of the

fan system motor nameplate hp or fan

fan system motor nameplate hp or fan

the design point of operation <= 15%

Not Observable

the design point of operation <= 15%

controlled by an occupancy sensing

Chapter 4. Mechanical ventilation has

capability to reduce outdoor air supply Not Applicable

people/1000 ft2 occupant density and

served by systems with air side economizer, auto modulating outside

of maximum total efficiency of the Not Observable

protected from damage and is

protected from damage and is

& Req.ID

Mechanical Rough-In Inspection

C402.2.6 Thermally ineffective panel surfaces of \square Complies

Fan System: None

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

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□Does Not

□Does Not

■Not Observable

□Not Applicable

☐Not Observable

□Not Applicable

☐Not Observable

☐Not Applicable

□Not Applicable

☐Not Applicable

□Not Applicable

□Not Applicable

□Not Observable

☐Not Applicable

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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☐ Complies

☐Does Not

☐Complies

 \square Complies

Complies

□Does Not

Jennifer Pfankuch - MEP Designer

25 May 2023

Comments/Assumptions

Requirement will be met.

See the Mechanical Systems list for values.

See the Mechanical Systems list for values.

See the Mechanical Systems list for values.

ISSUE TABLE

REVISIONS

8/01/2023

2 9/04/2023

3 9/12/2023

No.

Date

Description

Description

RESPONSE TO CITY

HEALTH COMMENTS

RESPONSE TO CITY

Description

PROJECT NORTH

DRAWINGS REVISED AS PER DESIGN BULLETIN

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Company Logo



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US 2112 PROTOTYPE 2112-21 Location

> 1517 NC 24-87 CAMERON, NC

ELECTRICAL ENERGY CALCS

		2
Drawn	Checked] {
JP	AH	
Scale	Date]-
NOT TO SCALE	JUNE 2023	Ĺ
Project No.	Drawing No.	إ
C22-129	E4.1	

Project Information Energy Code: 2018 IECC Project Title: Popeye's Project Type: New Construction 4 (High activity metropolitan commercial district (LZ4)) Exterior Lighting Zone Owner/Agent: Designer/Contractor: The Dimension Group 10755 Sandhill Road Cameron, NC Dallas, TX 75238 214 343 9400 Allowed Exterior Lighting Power Area/Surface Category Allowed Watts (B X C) Walkway < 10 feet wide Entry canopy 20546 ft2 0.08 1644 Parking area Illuminated area of facade wall or surface 168 ft2 Total Tradable Watts (a) = Total Allowed Watts = 2152 Total Allowed Supplemental Watts (b) = (a) Wattage tradeoffs are only allowed between tradable areas/surfaces (b) A supplemental allowance equal to 900 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces. Proposed Exterior Lighting Power Lamps/ # of Fixture (C X D) Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast Fixture Fixtures Watt Walkway < 10 feet wide (57 ft of walkway length): Tradable Wattage 8 100 LED 2: H1: LED SCONCE: LED Other Fixture Unit 103W: <u>Drive-up windows/doors (2 windows or doors): Non-tradable Wattage</u> Entry canopy (107 ft2): Tradable Wattage LED 3: D: RECESSED DOWNLIGHT: LED A Lamp 13W: 7 14 98 Parking area (20546 ft2): Tradable Wattage LED 4: P1: LED POLE LIGHT: LED Roadway-Parking Unit 220W: 5 165 Illuminated area of facade wall or surface (168 ft2): Non-tradable Wattage LED 5: H: LED GOOSENECK: LED Other Fixture Unit 36W: Total Tradable Proposed Watts = Data filename: C:\Good Sync Projects\Popeye's\C22-129 Cameron, NC\06 MEP\ComCheck\POPEYES.CAMERON, Page 2 of 19 COMCHECK.cck

Comments/Assumptions

Exception: Requirement does not apply.

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Plumbing Rough-In Inspection **Comments/Assumptions** & Req.ID C404.5, Heated water supply piping conforms Complies Requirement will be met. C404.5.1, to pipe length and volume C404.5.2 requirements. Refer to section details. Not Observable ☐Not Applicable C404.5, Heated water supply piping conforms Complies Requirement will be met. C404.5.1. to pipe length and volume C404.5.1, to pipe length and volume requirements. Refer to section details. \Box Does Not □Not Applicable C404.5, Heated water supply piping conforms Complies Requirement will be met. □Does Not C404.5.1, to pipe length and volume C404.5.2 requirements. Refer to section details. ☐Not Applicable C404.6.1, Automatic time switches installed to Complies Requirement will be met. C404.6.2 automatically switch off the □Does Not [PL3]¹ recirculating hot-water system or heat \(\subseteq \text{Not Observable} \) ☐Not Applicable C404.6.3 Pumps that circulate water between a Complies [PL7] 3 heater and storage tank have controls \square_{Does} Not that limit operation from startup to <= 5 minutes after end of heating □Not Applicable C404.6.3 Pumps that circulate water between a Complies Requirement will be met. heater and storage tank have controls \quad \textstyle Does Not that limit operation from startup to ☐Not Observable <= 5 minutes after end of heating □Not Applicable C404.6.3 Pumps that circulate water between a \square Complies Requirement will be met. [PL7]³ heater and storage tank have controls Does Not that limit operation from startup to ☐Not Observable <= 5 minutes after end of heating □Not Applicable C404.7 Demand recirculation water systems Complies Requirement will be met. [PL8] 3 have controls that start the pump \Box Does Not upon receiving a signal from the ☐Not Observable action of a user of a fixture or appliance and limits the temperature \square Not Applicable of the water entering the cold-water piping to 104°F. C404.7 Demand recirculation water systems Complies Requirement will be met. have controls that start the pump Does Not upon receiving a signal from the ☐Not Observable action of a user of a fixture or appliance and limits the temperature \Boxed{\Boxesian} Not Applicable of the water entering the cold-water piping to 104°F. C404.7 Demand recirculation water systems Complies have controls that start the pump Does Not upon receiving a signal from the ☐Not Observable action of a user of a fixture or appliance and limits the temperature \quad \text{Not Applicable} of the water entering the cold-water piping to 104°F. Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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Project Title: Popeye's

Plan Review Complies? Comments/Assumptions & Req.ID C103.2 Plans, specifications, and/or □Complies calculations provide all information Does Not with which compliance can be ■Not Observable determined for the mechanical \square Not Applicable systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks. C103.2 Plans, specifications, and/or Requirement will be met. \square Complies calculations provide all information Does Not with which compliance can be ☐Not Observable determined for the service water ☐Not Applicable heating systems and equipment and document where exceptions to the standard are claimed. Hot water system sized per manufacturer's sizing guide. C103.2 Plans, specifications, and/or □Complies Requirement will be met. calculations provide all information

Does Not with which compliance can be ☐Not Observable determined for the interior lighting and electrical systems and equipment Not Applicable and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices. C103.2 Plans, specifications, and/or calculations provide all information Does Not determined for the exterior lighting and electrical systems and equipment \square Not Applicable and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices. Plans, specifications, and/or calculations provide all information
Does Not with which compliance can be with which compliance can be determined for the additional energy efficiency package options. efficiency package options.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.7.2 [ME115] ³	Enclosed parking garage ventilation has automatic contaminant detection	□Complies □Does Not	Exception: Requirement does not apply.
	and capacity to stage or modulate fans to 50% or less of design capacity.	□Not Observable □Not Applicable	
C403.7.6 [ME141] ³	HVAC systems serving guestrooms in Group R-1 buildings with > 50 guestrooms: Each guestroom is provided with controls that automatically manage temperature	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Exception: Requirement does not apply.
	setpoint and ventilation (see sections C403.7.6.1 and C403.7.6.2).		
C403.7.4 [ME57] ¹	Exhaust air energy recovery on systems meeting Table C403.7.4(1)	□Complies □Does Not	Requirement will be met.
	and C403.7.4(2).	□Not Observable □Not Applicable	
C403.7.5 [ME116] ³	replacement air and conditioned supply air limitations, and satisfy hood rating requirements and maximum	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.11.1	exhaust rate criteria. HVAC ducts and plenums insulated in accordance with C403.11.1 and	☐Complies	Requirement will be met.
, C403.11.2 [ME60] ²	constructed in accordance with C403.11.2, verification may need to occur during Foundation Inspection.	□Does Not □Not Observable □Not Applicable	
C403.4.3.	Three-pipe hydronic systems using a common return for hot and chilled	□Complies □Does Not	Requirement will be met.
[ME50] ²	water are not used.	□Not Observable □Not Applicable	
C403.4.3. 1 [ME50] ²	Three-pipe hydronic systems using a common return for hot and chilled water are not used.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.4.5 [ME26] ³	Chilled water plants with multiple chillers have capability to reduce flow automatically through the chiller plant when a chiller is shut down. Boiler plants with multiple boilers have the capability to reduce flow automatically through the boiler plant when a boiler is shut down.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C403.4.5 [ME26] ³	Chilled water plants with multiple chillers have capability to reduce flow automatically through the chiller plant when a chiller is shut down. Boiler plants with multiple boilers have the capability to reduce flow automatically through the boiler plant when a boiler is shut down.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C403.4.1. 4 [ME63] ²	Heating for vestibules and air curtains with integral heating include automatic controls that shut off the heating system when outdoor air temperatures > 45F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60F and cooling setpoint >= 80F.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3) Report date: 05/25/23 Data filename: C:\Good Sync Projects\Popeye's\C22-129 Cameron, NC\06 MEP\ComCheck\POPEYES.CAMERON, Page 11 of 19 COMCHECK.cck

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.9.5 ME31] ³	Condenser heat recovery system that can heat water to 85 °F or provide 60% of peak heat rejection is installed for preheating of service hot water.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.9.5 ME31] ³	can heat water to 85 °F or provide 60% of peak heat rejection is installed for preheating of service hot water.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C408.2.2. L ME53] ³	have means for air balancing.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.2. 2 ME54] ³	coils have means to balance and have pressure test connections.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C408.2.2. 2 ME54] ³	HVAC hydronic heating and cooling coils have means to balance and have pressure test connections.	□Complies	Requirement will be met.
C403.5, C403.5.1, C403.5.2 ME123] ³	coolers or walk-in freezers served by remote compressors and remote condensers not located in a	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
Addition	al Comments/Assumptions:		

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3) Report date: 05/25/23 Project Title: Popeye's Data filename: C:\Good Sync Projects\Popeye's\C22-129 Cameron, NC\06 MEP\ComCheck\POPEYES.CAMERON, Page 12 of 19 COMCHECK.cck

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.2. 2 [EL22] ¹	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C405.2.1, C405.2.1. 1 [EL18] ¹	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C405.2.1. 2 [EL19] ¹	Occupancy sensors control function in warehouses: In warehouses, the lighting in aisleways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
C405.2.1. 3 [EL20] ¹	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 3) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone, and 4) are configured such that any daylight responsive control will activate space general lighting or control zone general lighting only when occupancy for the same area is detected.		Exception: Requirement does not apply.
C405.2.2, C405.2.2. 1, C405.2.2. 2 [EL21] ²		☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

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# & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3,	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight responsive control function and section C405.2.3.2 Sidelit zone.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
C405.2.4 [EL26] ¹	Separate lighting control devices for specific uses installed per approved lighting plans.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.4 [EL27] ¹	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C405.2.5 [EL28] ^{null}	Manual controls required by the energy code are in a location with ready access to occupants and located where the controlled lights are visible, or identify the area served and their status.	□Complies □Does Not □Not Observable □Not Applicable	
C405.2.6 [EL30] ^{null}	Automatic lighting controls for exterior lighting installed. Controls will be daylight controlled, set based on business operation time-of-day, or reduce connected lighting > 30%.	□Complies □Does Not □Not Observable □Not Applicable	
C405.3 [EL6] ¹	Exit signs do not exceed 5 watts per face.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.6 [EL26] ²	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C405.7 [EL27] ²	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
1 [EL28] ²	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Exception: Requirement does not apply.
C405.9 [EL29] ²	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5. 2 [FI17] ³	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C303.3, C408.2.5. 3 [FI8] ³	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C403.2.2 [FI27] ³	HVAC systems and equipment capacity does not exceed calculated loads.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C403.2.4. 1 [FI47] ³	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C403.2.4. 1 [FI47] ³	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.4.1. 2 [FI38] ³	Thermostatic controls have a 5 °F deadband.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.2.4. 1.3 [FI20] ³	Temperature controls have setpoint overlap restrictions.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.2.4. 2 [FI39] ³	Each zone equipped with setback controls using automatic time clock or programmable control system.	☐Complies	Requirement will be met.
2.1,	Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour occupant override, 10-hour backup	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C404.3 [FI11] ³	Heat traps installed on supply and discharge piping of non-circulating systems.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C404.4 [FI25] ²	All piping insulated in accordance with section details and Table C403.11.3.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3) Project Title: Popeye's Report date: 05/25/23

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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C404.6.1 [FI12] ³	Controls are installed that limit the operation of a recirculation pump installed to maintain temperature of a storage tank. System return pipe is a dedicated return pipe or a cold water supply pipe.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C405.4.1 [FI18] ¹	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	See the Interior Lighting fixture schedule for values.
C405.5.1 [FI19] ¹	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	□Complies □Does Not □Not Observable □Not Applicable	See the Exterior Lighting fixture schedule for values.
C408.1.1 [FI57] ¹	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.1 [FI28] ¹	Commissioning plan developed by registered design professional or approved agency.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.3. 1 [FI31] ¹	HVAC equipment has been tested to ensure proper operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.3. 2 [FI10] ¹	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.4 [FI29] ¹	Preliminary commissioning report completed and certified by registered design professional or approved agency.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.5. 1 [FI7] ³	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.5. 1 [FI16] ³	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C408.2.5. 3 [FI43] ¹	An air and/or hydronic system balancing report is provided for HVAC systems.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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Section	Final Incorpolition	C!!2	C
# & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C408.2.5. 4 [FI30] ¹	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C408.3 [FI33] ¹	Lighting systems have been tested to ensure proper calibration, adjustment programming, and operation.	Complies	Requirement will be met.
Addition	al Comments/Assumptions:		
	1 High Impact (Tier 1)	2 Medium Impa	act (Tier 2) 3 Low Impact (Tier 3)
Project Titl	<u> </u>		Report date: 05/25/23



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Company Logo

ISSUE TABLE

REVISIONS

No. Date

1 8/01/2023

2 9/04/2023

3 9/12/2023

Date (mm/dd/yy)

Description

Description

RESPONSE TO CITY

HEALTH COMMENTS

RESPONSE TO CITY

PROJECT NORTH

9.13.2023

DRAWINGS REVISED AS PER DESIGN BULLETIN



US 2112 PROTOTYPE

2112-21

1517 NC 24-87

CAMERON, NC

ELECTRICAL ENERGY CALCS

Drawn	Checked
JP	AH
Scale	Date
NOT TO SCALE	JUNE 2023
Project No.	Drawing No.
C22-129	E4.2

SECTION 16000 - BASIC ELECTRICAL

- . 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
- 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. TEMPORARY ELECTRICAL SERVICE:
- A. PROVIDE TEMPORARY ELECTRICAL SERVICE FOR POWER AND LIGHTING DURING CONSTRUCTION. MAINTAIN DURING CONSTRUCTION AND REMOVE SERVICE AFTER CONSTRUCTION IS COMPLETED. THE TEMPORARY SYSTEM SHALL CONSIST OF AN ELECTRICAL SERVICE, DISTRIBUTION SYSTEM, LOAD-CENTER PANEL, GROUNDING, 15 AMP AND/OR 20 AMP BRANCH CIRCUITS, GROUNDED TYPE RECEPTACLES AND
- B. PROVIDE AND INSTALL SUFFICIENT NUMBER OF TEMPORARY LIGHT FIXTURES FOR A SAFE INSTALLATION FOR ALL TRADES THROUGHOUT THE BUILDING. ALL LAMPS FOR GENERAL ILLUMINATION SHALL BE PROTECTED FROM ACCIDENTAL CONTACT OR BREAKAGE BY SUITABLE FIXTURE OR LAMPHOLDER WITH A GUARD. (NO 3. SELF ADHESIVE, COMMERCIALLY AVAILABLE ARC FLASH HAZARD LABELS. LABELS TO EXCEPTIONS.)

10. 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 5. APPLY EQUIPMENT IDENTIFICATION LABELS OF ENGRAVED PLASTIC - LAMINATE ON 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
- B. ALL LAMPS ARE TO BE WARRANTED ACCORDING TO LAMP MANUFACTURER, WHICH) RASED ON AVERAGE LIFE DATA FOR FACH SPECIFIC 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.

11 FXCAVATION:

- A. PROVIDE ALL EXCAVATION AND BACKFILL AS NECESSARY TO INSTALL THE CONDUIT SECTION 16075 IDENTIFICATION SYSTEMS AS SHOWN ON THE DRAWINGS.
- B. CARE SHALL BE TAKEN IN EXCAVATING THAT WALLS AND FOOTINGS AND ADJACENT LOAD BEARING SOILS ARE NOT DISTURBED IN ANY WAY. WHERE RACEWAYS MUST CROSS UNDER A WALL FOOTING, THE EXCAVATION SHALL BE KEPT AT A MINIMUM.
- C. CONDUIT SHALL BE SUPPORTED DIRECTLY ON UNDISTURBED SOIL, DO NOT EXCAVATE BEYOND INDICATED DEPTH. IF EXISTING SOIL IS UNSUITABLE (SOFT 2. CABLE TIES: FUNGUS—INERT, SELF—EXTINGUISHING, ONE—PIECE, SELF—LOCKING SPOT OR ROCK), EXCAVATE TO SOLID SUBGRADE, OR 6" FOR ROCK, BELOW BOTTOM OF WORK AND PROVIDE SUB-BASE MATERIAL AS REQUIRED.
- D. IMMEDIATELY AFTER INSTALLATION, THE TRENCH SHALL BE CAREFULLY BACKFILLED WITH EARTH FREE FROM CLODS, BRICK, ETC. TO A DEPTH ONE-HALF THE RACEWAY DIAMETER AND THEN FIRMLY TAMPED IN SUCH A MANNER AS NOT TO DISTURB ALIGNMENT OR JOINTS OF THE CONDUIT. THEREAFTER THE BACKFILL SHALL BE TAMPED EVERY VERTICAL FOOT.

12. CUTTING AND PATCHING:

- 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.
- . EXCEPT AS OTHERWISE INDICATED, PROVIDE ELECTRICAL GROUNDING AND BONDING SYSTEMS INDICATED WITH ASSEMBLY OF MATERIALS, INCLUDING, BUT NOT LIMITED TO, 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
- 5. INSTALLATION OF ELECTRICAL GROUNDING AND BONDING SYSTEMS:
- A. GROUNDING ELECTRODE CONDUCTORS, WHERE NOT INSTALLED AS PART OF A BRANCH CIRCUIT OR FEEDER, SHALL BE INSTALLED IN PVC CONDUIT, TO PROTECT THE WIRING FROM PHYSICAL DAMAGE.
- B. CONNECT GROUNDING ELECTRODE CONDUCTORS TO METAL COLD WATER PIPE AND ALL OTHER TYPES OF METAL PIPING WITHIN THE BUILDING USING A SUITABLY SIZED GROUND CLAMP. PROVIDE CONNECTIONS TO FLANGED PIPING TO STREET SIDE OF FLANGE. PROVIDE BONDING AS DESCRIBED IN ADOPTED ELECTRICAL CODE INCLUDING BONDING JUMPER AROUND WATER METER.
- C. CONNECT TOGETHER SYSTEM NEUTRAL, SERVICE EQUIPMENT ENCLOSURES, EXPOSED NON-CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT, METAL RACEWAY SYSTEMS, GROUNDING CONDUCTOR IN RACEWAYS AND CABLES, RECEPTACLE GROUND CONNECTORS, AND PLUMBING SYSTEMS.
- D. THE UTILITY COMPANY METER SOCKET SHALL BE GROUNDED TO A 1/2" X 10' COPPER CLAD STEEL GROUND ROD WITH COPPER WIRE INSTALLED IN P.V.C. CONDUIT. THE GROUND ROD SHALL BE DRIVEN INTO THE EARTH WITH THE TOP 1'-0" BELOW GRADE, AS NEAR AS POSSIBLE TO THE LOCATION OF THE METER SOCKET WITH THE TOP 1'-0" BELOW FINISHED GRADE.

SECTION 16075 — IDENTIFICATION

- . ENGRAVED, PLASTIC-LAMINATED LABELS, SIGNS, AND INSTRUCTION PLATES: ENGRAVING STOCK MELAMINE PLASTIC LAMINATE, 1/16-INCH MINIMUM THICK FOR SIGNS UP TO 20 SQUARE INCHES, OR 8 INCHES IN LENGTH; 1/8-INCH THICK FOR LARGER SIZES. ENGRAVED LEGEND IN WHITE LETTERS ON BLACK FACE AND PUNCHED FOR MECHANICAL FASTENERS.
- . CABLE TIES: FUNGUS-INERT, SELF-EXTINGUISHING, ONE-PIECE, SELF-LOCKING NYLON CABLE TIES, 0.18-INCH MINIMUM WIDTH, 50-LB MINIMUM TENSILE STRENGTH, AND SUITABLE FOR A TEMPERATURE RANGE FROM MINUS 50 F TO 350 F. PROVIDE TIES IN SPECIFIED COLORS WHEN USED FOR COLOR-CODING.
- CONFORM TO THE ADOPTED ELECTRICAL CODE AND A.N.S.I. Z535.4.
- 4. CONDUCTOR COLOR CODING: PROVIDE COLOR CODING FOR SECONDARY SERVICE, FEEDER, AND BRANCH CIRCUIT CONDUCTORS THROUGHOUT THE PROJECT SECONDARY
- EACH MAJOR UNIT OF ELECTRICAL EQUIPMENT IN BUILDING, INCLUDING CENTRAL OR MASTER UNIT OF EACH ELECTRICAL SYSTEM. THIS INCLUDES COMMUNICATION/SIGNAL/ALARM SYSTEMS, UNLESS UNIT IS SPECIFIED WITH ITS OWN SELF-EXPLANATORY IDENTIFICATION. EXCEPT AS OTHERWISE INDICATED, PROVIDE SINGLE LINE OF TEXT, WITH 1/4-INCH-HIGH LETTERING ON 1-INCH-HIGH LABEL (1-1/2-INCH-HIGH WHERE TWO LINES ARE REQUIRED). WHITE LETTERING IN BLACK FIELD. TEXT SHALL MATCH TERMINOLOGY AND NUMBERING OF THE CONTRACT FOLLOWING CATEGORIES OF ELECTRICAL EQUIPMENT.
- A. PANELBOARDS, ELECTRICAL CABINETS, AND ENCLOSURES B. ELECTRICAL SWITCHGEAR AND SWITCHBOARDS C. MOTOR STARTERS AND/OR VFDs FURNISHED BY THIS CONTRACTOR DISCONNECT SWITCHES

ELECTRICAL SYSTEM PER WIRES AND CABLING SECTION.

- ENGRAVED, PLASTIC-LAMINATED LABELS, SIGNS, AND INSTRUCTION PLATES: ENGRAVING STOCK MELAMINE PLASTIC LAMINATE, 1/16-INCH MINIMUM THICK FOR SIGNS UP TO 20 SQUARE INCHES, OR 8 INCHES IN LENGTH; 1/8-INCH THICK FOR LARGER SIZES. ENGRAVED LEGEND IN WHITE LETTERS ON BLACK FACE AND PUNCHED FOR MECHANICAL FASTENERS.
- NYLON CABLE TIES, 0.18-INCH MINIMUM WIDTH, 50-LB MINIMUM TENSILE STRENGTH, AND SUITABLE FOR A TEMPERATURE RANGE FROM MINUS 50 F TO 350 F. PROVIDE TIES IN SPECIFIED COLORS WHEN USED FOR COLOR-CODING.
- . SELF ADHESIVE, COMMERCIALLY AVAILABLE ARC FLASH HAZARD LABELS. LABELS TO CONFORM TO THE ADOPTED ELECTRICAL CODE AND A.N.S.I. Z535.4.
- 4. CONDUCTOR COLOR CODING: PROVIDE COLOR CODING FOR SECONDARY SERVICE, FEEDER, AND BRANCH CIRCUIT CONDUCTORS THROUGHOUT THE PROJECT SECONDARY ELECTRICAL SYSTEM PER WIRES AND CABLING SECTION.
- A. NO STRUCTURAL MEMBERS SHALL BE CUT, DRILLED, OR PENETRATED WITHOUT 5. APPLY EQUIPMENT IDENTIFICATION LABELS OF ENGRAVED PLASTIC- LAMINATE ON EACH MAJOR UNIT OF ELECTRICAL EQUIPMENT IN BUILDING, INCLUDING CENTRAL OR MASTER UNIT OF EACH ELECTRICAL SYSTEM. THIS INCLUDES COMMUNICATION/SIGNAL/ALARM SYSTEMS, UNLESS UNIT IS SPECIFIED WITH ITS OWN SELF-EXPLANATORY IDENTIFICATION. EXCEPT AS OTHERWISE INDICATED, PROVIDE SINGLE LINE OF TEXT, WITH 1/4-INCH-HIGH LETTERING ON 1-INCH-HIGH LABEL (1-1/2-INCH-HIGH WHERE TWO LINES ARE REQUIRED), WHITE LETTERING IN BLACK FIELD. TEXT SHALL MATCH TERMINOLOGY AND NUMBERING OF THE CONTRACT DOCUMENTS AND SHOP DRAWINGS. APPLY LABELS FOR EACH UNIT OF THE FOLLOWING CATEGORIES OF ELECTRICAL EQUIPMENT.
 - A. PANELBOARDS, ELECTRICAL CABINETS, AND ENCLOSURES B. ELECTRICAL SWITCHGEAR AND SWITCHBOARDS
 - MOTOR STARTERS AND/OR VFDs FURNISHED BY THIS CONTRACTOR D. DISCONNECT SWITCHES
 - E. CONTACTORS

E. CONTACTORS

SECTION 16120 - WIRES AND CABLES

- 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.
- CABLES/WIRES, CONNECTORS, SOLDERLESS LUG TERMINALS, GROUNDING ELECTRODES 3. INSULATION: PROVIDE THHN/THWN INSULATION FOR ALL CONDUCTORS NO. 14 AWG THRU NO. 10 AWG. FOR ALL OTHER SIZES PROVIDE THHN/THWN OR XHHW
 - 4. ALUMINUM CONDUCTORS ARE NOT APPROVED OR ACCEPTABLE.

INSULATION AS APPROPRIATE FOR THE LOCATION WHERE INSTALLED.

5. ALUMINUM CONDUCTORS:

- A. AT THE CONTRACTOR'S OPTION, ALUMINUM CONDUCTORS WILL BE ALLOWED FOR COPPER SIZES RATED FOR 100 AMPERES AND LARGER BUT, SIZE MUST BE INCREASED TO EQUAL OR EXCEED THE COPPER AMPACITY IN ACCORDANCE WITH ADOPTED ELECTRICAL CODE. RACEWAY AND PULL BOXES MUST BE INCREASED TO CONFORM TO ADOPTED ELECTRICAL CODE. ALL ALUMINUM CONDUCTORS MUST BE MADE BASED ON COMPACT STRANDED, AA-8000 SERIES ALUMINUM ALLOY MATERIAL EQUAL TO "STABILOY" ALCAN CABLE.
- B. IF ALUMINUM CABLE IS TO BE INSTALLED ON THIS PROJECT, CONTRACTOR IS TO NOTIFY ENGINEER IN WRITING, AT TIME OF SUBMITTAL DRAWINGS. CONTRACTOR IS 4. SURFACE RACEWAYS: TO LIST ALL FEEDERS THAT WILL BE CHANGED TO ALUMINUM, AND INDICATE THE REVISED ALUMINUM CONDUCTOR SIZE.
- C. CONNECTORS AND TERMINATIONS INSTALLED WITH ALUMINUM-ALLOY CONDUCTORS SHALL BE COMPRESSION TYPE ONLY, AND ONLY THOSE LISTED BY UNDERWRITER'S LABORATORIES STRANDED 486-B AND MARKED "AL7CU" FOR 75C RATED CIRCUITS.
- D. IF THE CONTRACTOR DECIDES TO EXERCISE THE OPTION OF ALUMINUM 5. WIRING METHOD: CONDUCTORS FOR CONNECTIONS TO EQUIPMENT PROVIDED AND/OR INSTALLED BY OTHER TRADES, THEN THIS CONTRACTOR SHALL REIMBURSE THE EQUIPMENT SUPPLIER FOR ANY COST ASSOCIATED WITH THE MODIFICATIONS REQUIRED TO THAT EQUIPMENT.
- ENDS OF ALL CONDUCTORS ARE TO BE BRUSHED CLEAN AND PRIOR TO FINAL CONNECTION. EXPOSED PORTION OF CONDUCTOR TO BE COVERED WITH ALUMINUM OXIDE INHIBITOR. CONDUCTOR TERMINATION MADE WITH SET-SCREW TERMINAL LUGS ARE TO BE TORQUED, USING A TORQUE WRENCH, IN ACCORDANCE WITH LUG MANUFACTURER SPECIFICATIONS OR ACCORDING TO UL STANDARD 486B. AT THE COMPLETION OF THE PROJECT CONTRACTOR IS TO CHECK TORQUE VALUES ON ALL ALUMINUM TERMINATIONS. CONTRACTOR IS TO SUBMIT IN WRITING, AT TIME OF RECORD DRAWINGS, A COMPLETE LIST OF APPLIED TORQUE VALUES FOR ALL ALUMINUM TERMINATIONS.
- 6. VARIABLE FREQUENCY DRIVE CABLES: WHERE A VFD IS INSTALLED, PROVIDE A VFD CABLING SYSTEM FROM THE VFD TO THE CONTROLLED EQUIPMENT MANUFACTURED MEETING THE FOLLOWING SPECIFICATIONS: 6.1. ASTM B3 AND B8
- 6.2. UL 44, UL 1277 6.3. COLOR CODE PER ICEA S-58-679 METHOD 4
- 6.4. IEEE 1202/FT4 FLAME TEST 6.5. CONDUCTORS SHALL BE CLASS B STRANDED, UNCOATED ANNEALED COPPER; EACH CONDUCTOR SHALL BE INSULATED WITH BLACK POLYETHYLENE. A 5 MIL UNCOATED COPPER TAPE SHIELD, HELICALLY WRAPPED OVER THE TWISTED ASSEMBLY WITH A 50% OVERLAP AND IN CONTACT WITH THE GROUND WIRE. WITH A FLAME RETARDANT PVC JACKET OUTER JACKET.

1. 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 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	<u>PHASE</u>
BLACK	А
RED	В
BLUE	С
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. RIGID NONMETALLIC CONDUIT (PVC)
- G. SURFACE RACEWAYS
- H. WIRFWAY
- I. METAL CLAD (MC) AND ALUMINUM CLAD (AC) CABLE

A. ELECTRICAL WIREWAYS SHALL BE OF TYPES, SIZES, AND NUMBER OF CHANNELS AS INDICATED. FITTINGS AND ACCESSORIES INCLUDING BUT NOT LIMITED TO COUPLINGS, OFFSETS, ELBOWS, EXPANSION JOINTS, ADAPTERS, HOLD-DOWN STRAPS, AND END CAPS SHALL MATCH AND MATE WITH WIREWAY AS REQUIRED FOR A COMPLETE SYSTEM. WHERE FEATURES ARE NOT INDICATED, SELECT TO FULFILL WIRING REQUIREMENTS AND COMPLY WITH APPLICABLE PROVISIONS OF ADOPTED ELECTRICAL CODE.

A. SIZES AND CHANNELS AS INDICATED, MINIMUM SIZE TO BE EQUAL TO WIREMOLD #500 SERIES. PROVIDE FITTINGS THAT MATCH AND MATE WITH RACEWAY. CONSTRUCT OF GALVANIZED STEEL WITH SNAP-ON COVERS, WITH 1/8-INCH MOUNTING SCREW KNOCKOUTS IN BASE APPROXIMATELY 8 INCHES ON-CENTER. FINISH WITH MANUFACTURER'S STANDARD PRIME COATING SUITABLE FOR PAINTING. PROVIDE RACEWAYS OF TYPE SUITABLE FOR EACH APPLICATION REQUIRED.

- A. OUTDOORS: USE THE FOLLOWING WIRING METHODS:
- A.2. CONCEALED: INTERMEDIATE METAL CONDUIT A.3. UNDERGROUND, RIGID NONMETAL CONDUIT.

A.1. EXPOSED: INTERMEDIATE METAL CONDUIT.

- A.4. CONNECTION TO VIBRATING EQUIPMENT: INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC OR ELECTRIC SOLENOID OR MOTOR-DRIVEN
- EQUIPMENT: LIQUID-TIGHT FLEXIBLE METAL CONDUIT. A.5. 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.
- B. INDOORS: USE THE FOLLOWING WIRING METHODS: B.1. CONNECTION TO VIBRATING EQUIPMENT: INCLUDING TRANSFORMERS AND
- HYDRAULIC, PNEUMATIC OR ELECTRIC SOLENOID OR MOTOR-OPERATED EQUIPMENT: FLEXIBLE METAL CONDUIT.
- B.2. EXPOSED: ELECTRICAL METALLIC TUBING CONDUIT. CONCEALED: ELECTRICAL METALLIC TUBING.
- B.4. CONCEALED, IN CONCRETE EMBEDDED, STRUCTURAL INTERIOR WALLS, OR ROOF DECK PENETRATIONS: INTERMEDIATE METAL OR RIGID METAL CONDUIT.
- B.5. UNDER CONCRETE FLOOR (SLAB ON GRADE): INTERMEDIATE METAL OR RIGID METAL CONDUIT.
- C. 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.
- D. METAL CLAD (MC) AND ALUMINUM CLAD (AC) CABLE D.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. 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
- D.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 D.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. WEATHERPROOF PULL AND SPLICE BOXES: D.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. D.5. MAY NOT BE USED IN EXTERIOR APPLICATIONS
- 6. CONDUIT SHALL BE INSTALLED AS A COMPLETE SYSTEM, CONTINUOUS FROM OUTLET 7. FIRESTOP FOR RECESSED WALL BOXES: 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 8. FLOOR BOXES IN SLABS ON GRADE AND WET LOCATIONS TO BE NEMA TYPE 4, DIRECTLY TO THE STEEL JOISTS.
- 7. 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.
- 8. 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.
- 9. 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.
- 10. ALL CONDUITS ABOVE LAY-IN CEILING SYSTEM SHALL NOT BE SUPPORTED FROM CEILING SUSPENSION WIRES.

11. PROVIDE 36" MINIMUM RADIUS RIGID STEEL CONDUIT ELBOWS FOR PRIMARY SERVICE

- 12. CONDUITS CAPPED OUTSIDE OF BUILDING FOR FUTURE ADDITION SHALL BE A MINIMUM OF 1'-6" BELOW FINISH GRADE, CAPPED AND PAINTED WITH BITUMINOUS PAINT, WHICH SHALL BE THOROUGHLY DRY, BEFORE BACKFILL IS INSTALLED.
- 13. METAL CLAD (MC) AND ALUMINUM CLAD (AC) CABLES:

CONDUITS UNDER THE TRANSFORMER PAD.

- 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 &

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

SECTION 16135 - CABINETS, BOXES AND FITTINGS

- 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.
- CAST-IRON FLOOR BOXES: FULLY ADJUSTABLE, WATERPROOF, WITH THREADED RACEWAY ENTRANCES, RECTANGULAR BOX OPENING, ADJUSTING RINGS, GASKETS, BRASS FLOOR PLATES, AND POLYCARBONATE CARPET FLANGE. WHERE INDICATED, PROVIDE MULTI-SECTION BOXES WITH INDIVIDUAL HINGED SECTION COVERS AND PROVIDE FOR A DUPLEX RECEPTACLE UNDER ONE OR MORE OF THE COVERS.
- 3. PULL AND JUNCTION BOXES:
- A. COMPLY WITH UL 50, "ELECTRICAL CABINETS AND BOXES", FOR BOXES OVER 100 CUBIC INCHES VOLUME. BOXES SHALL HAVE SCREWED OR BOLTED ON COVERS OF MATERIAL SAME AS BOXES AND SHALL BE OF SIZE AND SHAPE TO SUIT APPLICATION.
- STEEL BOXES: SHEET STEEL WITH WELDED SEAMS. WHERE NECESSARY TO PROVIDE A RIGID ASSEMBLY, CONSTRUCT WITH INTERNAL STRUCTURAL STEEL
- C. 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.

- 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.
- 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.
- 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

- 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.
- CAST-IRON BOXES WITH THREADED HUBS. FLOOR BOXES LOCATED IN SLABS ABOVE GRADE CAN BE STAMPED STEEL. <u>PLASTIC FLOOR BOXES ARE NOT APPROVED.</u>
- A. INSTALL IN CONCRETE FLOOR SLABS SO THEY ARE COMPLETELY ENVELOPED IN CONCRETE EXCEPT FOR THE TOP. WHERE NORMAL SLAB THICKNESS WILL NOT ENVELOP BOX AS SPECIFIED ABOVE, PROVIDE INCREASED THICKNESS OF THE SLAB. PROVIDE EACH COMPARTMENT OF EACH FLOOR BOX WITH GROUNDING TERMINAL CONSISTING OF A WASHER-IN-HEAD MACHINE SCREW, NOT SMALLER THAN NO. 10-32, SCREWED INTO A TAPPED HOLE IN THE BOX. ADJUST COVERS
- 9. 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.

OF FLOOR BOXES FLUSH WITH FINISHED FLOOR.

10. 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.

VIS	IONS		
0.	Date	Description	

Description

ISSUE TABLE

Date

1 8/01/2023 RESPONSE TO CITY 2 9/04/2023 HEALTH COMMENTS 3 9/12/2023 RESPONSE TO CITY

DRAW	DRAWINGS REVISED AS PER DESIGN BULLETIN		
No.	Date	Description	



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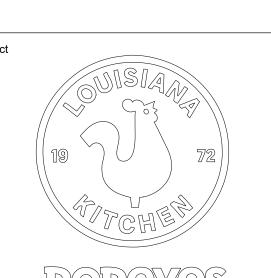
THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT AND TO REPORT ANY DISCREPANCIES TO THE POPEYES LOUISIAN KITCHEN REPRESENTATIVE PRIOR TO COMMENCING WORK, THESE DRAWINGS POPEYES LOUISIANA KITCHEN AS "ISSUED FOR CONSTRUCTION".



9.13.2023



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US 2112 PROTOTYPE

1517 NC 24-87

2112-21

ELECTRICAL

Drawn	Checked
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Scale	Date
	JUNE 2023
Project No.	Drawing No.
C22-129	ES.1

SECTION 16140 - WIRING DEVICES SECTION 16140 — WIRING DEVICES SECTION 16410 — DISCONNECTS, CONTACTORS MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE 1. THIS SECTION INCLUDES THE FOLLOWING: OF SECTION "ELECTRICAL IDENTIFICATION." PRODUCTS BY ONE OF THE FOLLOWING: A. RECEPTACLES H. OCCUPANCY SENSOR LIGHTING CONTROL B. LIGHTING AND EQUIPMENT SWITCHES H.1. WALL MOUNTED OCCUPANCY SENSOR TO BE PASSIVE INFRARED COVERING A. GENERAL ELECTRIC CO. C. WALL PLATES B. SQUARE D COMPANY. 1200 (OR 900) SQUARE FEET, RATED FOR 120/277 VOLT, 1500 WATTS D. FLOOR SERVICE OUTLETS C. FATON CORPORATION MAXIMUM LOAD OF INCANDESCENT OR FLUORESCENT LIGHT. SENSOR TO . OCCUPANCY SENSORS . SIEMENS, I.T.E. HAVE 180° FIELD OF VIEW, OFF/AUTO/ON SLIDE SWITCH, ADJUSTABLE ALLEN-BRADLEY CO. F. MANUAL DIMMERS TIME-OUT FROM 1 TO 20 MINUTES, AND LED MOVEMENT INDICATOR PILOT. F. FURNAS CO. SENSOR TO BE MOUNTED IN A SINGLE-GANG WALL BOX AT SAME ELEVATION MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE AS STANDARD WALL SWITCHES. 2. TEMPERATURE RATINGS: ALL CONDUCTOR TERMINALS AND EQUIPMENT ENCLOSURES PRODUCTS BY ONE OF THE FOLLOWING: H.1.1. WATT STOPPER #PW-100 SINGLE REALY (OR #PW-200 DUAL RELAY). TO BE U.L. LISTED FOR USE WITH MINIMUM 75C RATED CONDUCTORS. A. WIRING DEVICES & ACCESSORIES: H.2. CEILING MOUNTED OCCUPANCY SENSOR TO BE DUAL TECHNOLOGY WITH A.1. COPPER WIRING DEVICES ULTRASONIC & PASSIVE INFRARED TYPE SENSORS. SENSORS TO HAVE A.2. CROUSE-HINDS CO. TWO-WAY OR ONE-WAY DISTRIBUTION DEPENDING ON MOUNTING LOCATION A. PROVIDE CIRCUIT AND MOTOR DISCONNECT SWITCHES OF TYPES, SIZES AND A.3. HUBBELL INC. CAPABLE OF ADJUSTING THE SENSITIVITY AND LENGTH OF OPERATION BASED ELECTRICAL CHARACTERISTICS INDICATED ON DRAWING. FUSIBLE OR NON-FUSED A.4. LEVITON ON PAST ACTIVITY LEVEL OF THE AREA'S OCCUPANTS. CUSTOM TYPE. RATED 250 OR 600 VOLTS, 60 HZ, 2- OR 3-POLES, SOLID NEUTRAL; A.5. PASS AND SEYMOUR INC. PERFORMANCE CONTROLS TO BE LOCATED BEHIND THE SENSOR LENS FOR AND INCORPORATING QUICK-MAKE, QUICK-BREAK TYPE SWITCHES; CONSTRUCT SO FIELD MODIFICATION OF SENSOR DESIGN. UNIT TO BE MOUNTED TO RECESSED THAT SWITCH BLADES ARE VISIBLE IN OFF POSITION WITH DOOR OPEN. SWITCH B. FLOOR BOXES: B.1. AMERICAN ELECTRIC, STEEL CITY SHALL HAVE A DUAL COVER INTERLOCK TO PREVENT UNAUTHORIZED OPENING OF H.2.1. WATT STOPPER #DT-355, 800W @ 120V (1200W @ 277V) B.2. WALKER / WIREMOLD COMPANY THE SWITCH DOOR WHEN HANDLE IS IN THE "ON" POSITION, AND TO PREVENT B.3. RACO, INC., HUBBELL INC. CLOSING OF THE SWITCH MECHANISM WITH THE DOOR OPEN. EQUIP WITH I. MANUAL DIMMERS: B.4. RACEWAY COMPONENTS, INC. OPERATING HANDLE WHICH IS INTEGRAL PART OF ENCLOSURE BASE AND WHOSE I.1. PROVIDE AND INSTALL AC DIMMER CONTROLS FOR LIGHTING FIXTURES; POSITION IS EASILY RECOGNIZABLE, AND IS PADLOCKABLE IN OFF POSITION; WATTAGE AS INDICATED BELOW, 120 VOLT, 60 HERTZ, WITH PRESET SLIDE CONSTRUCT CURRENT CARRYING PARTS OF HIGH-CONDUCTIVITY COPPER. WITH C. DIMMERS: CONTROLS AND PUSHBUTTON FOR ON/OFF CONTROLS, SINGLE-POLE.: C.1. HUBBELL INC. SILVER-TUNGSTEN TYPE SWITCH CONTACTS, AND POSITIVE PRESSURE TYPE I.1.1. ID1 = 1000 WATTS, LEVITON #IPI10-1LX (120/277V INCANDESCENT) C.5. LEVITON LIGHTING CONTROLS REINFORCED FUSE CLIPS. PROVIDE SWITCH IN NEMA 1 OR NEMA TYPE 3F I.1.2. D1 = 1200/1500 VA, LEVITON #IP710-LFZ (120/277V LED) ENCLOSURE AS INDICATED OR REQUIRED. INSTALL ENGRAVED PLASTIC PLATE AS C.6. LUTRON LIGHTING I.1.3. LD2 = 400 VA, LEVITON #IPE04-1LX (ELECTRONIC LOW VOLTAGE) TO WHAT EACH SWITCH CONTROLS. D. OCCUPANCY SENSOR LIGHTING CONTROL: I.1.4. LD3 = 1000 VA, LEVITON #IPM10-1LX (MAGNETIC LOW VOLTAGE) B. EQUIPMENT REQUIRING A DISCONNECTING MEANS, RATED FOR 120 OR 208 VOLT D.1. HUBBELL INC. I.1.5. FD1 = 1200/1500 VA, LEVITON #IP710-DLX (120/277V FLUORESCENT D.2. LEVITON MANUFACTURING INC. 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 D.3. WATT STOPPER INC. I.1.6. FD2 = 1000 VA, LEVITON #IPX10-10 (120V FLUORESCENT LINE VOLTAGE) AND VOLTAGE RATING EQUAL TO OR GREATER THAN THE BRANCH CIRCUIT D.4. SENSOR SWITCH I.1.7. FD3 = 1200 VA, LEVITON #IPX12-70 (277V FLUORESCENT LINE VOLTAGE) FEEDING THE EQUIPMENT. IF EQUIPMENT IS MOTOR RELATED, THEN THE SWITCH D.5. GREENGATE MUST BE HORSEPOWER RATED. REFER TO <u>SECTION</u> <u>16140</u> FOR MINIMUM SPECIFICATIONS FOR TOGGLE SWITCHES. SWITCHES LOCATED OUTDOORS OR IN WIRING DEVICES: 4. INSTALLATION OF WIRING DEVICES AND ACCESSORIES: A. PROVIDE WIRING DEVICES, IN TYPES, CHARACTERISTICS, GRADES, COLORS, AND COOLER/FREEZER APPLICATIONS ARE TO BE MOUNTED IN A DIE-CAST ALUMINUM ELECTRICAL RATINGS FOR APPLICATIONS INDICATED WHICH ARE UL LISTED AND DEVICE BOX WITH GASKETED WEATHERPROOF COVER PLATE. A. GROUPS OF SWITCHES OR SWITCH AND OUTLET COMBINATIONS SHALL BE WHICH COMPLY WITH NEMA WD 1 AND OTHER APPLICABLE UL AND NEMA MOUNTED UNDER ONE COVER PLATE. COVER PLATES SHALL FIT THE DEVICES STANDARDS. ALL DEVICES TO BE SPECIFICATION GRADE (HEAVY DUTY U.L. 4. RELAYS AND CONTACTORS: SECURELY AND SHALL COVER THE WALL OPENING COMPLETELY TO PROVIDE A GRADE), WITH GREEN HEXAGONAL EQUIPMENT GROUND SCREW, METAL PLASTER NEAT AND FINISHED APPEARANCE FLUSH WITH SURROUNDING SURFACES. A. GENERAL POWER PURPOSE RELAYS, FOR CONTROL OF MISCELLANEOUS MOTORS. EARS AND SIDE TERMINAL SCREWS FOR BACK AND SIDE WIRING. TO BE PROVIDED AND INSTALLED WITH NUMBER OF POLES AND COIL VOLTAGE AS B. TERMINALS ON ALL WIRING DEVICES SHALL NOT BE USED TO FEED-THROUGH TO SHOWN ON DRAWINGS. RELAY TO BE HORSEPOWER RATED FOR THE MOTOR B. ALL WIRING DEVICES ARE TO BE PROVIDED BY THE SAME MANUFACTURER UNLESS THE NEXT DEVICES. NOTED OTHERWISE. LOAD TO WHICH IT CONTROLS. RELAY TO BE MOUNTED IN A NEMA TYPE 1 C. INSTALL WALL-MOUNTED RECEPTACLES WITH GROUND SLOT UP. C. ALL WIRING DEVICES AND COVERPLATES SHALL BE: B. LIGHTING CONTACTORS TO BE PROVIDED AND INSTALLED WITH THE NUMBER OF C.1. WHITE D. RECEPTACLE MOUNTED ABOVE COUNTER-TOP TO BE INSTALLED HORIZONTAL. WITH POLES, COIL VOLTAGE, AND LOAD CONTACT RATINGS AS SHOWN ON DRAWINGS. C.2. WHITE - WHERE INSTALLED IN WHITE CEILINGS. LONG DIMENSION PARALLEL TO FLOOR AND COUNTER-TOP. CONTACTORS TO BE PROVIDED WITH SILVER ALLOY DOUBLE BREAK CONTACTS C.3. BLACK - WHERE INSTALLED IN DARK CEILINGS. RATED FOR TUNGSTEN AND BALLAST LIGHTING LOADS. CONTACTS TO BE C.4. ORANGE - WHERE SUPPLYING A UPS CIRCUIT. (DEVICE ONLY, COVERPLATE CONVERTIBLE WITH NORMALLY OPEN AND NORMALLY CLOSED INDICATORS. RELAY SHALL BE AS ABOVE). TO BE MOUNTED IN A NEMA TYPE 1 ENCLOSURE. SECTION 16180 - FUSES MANUFACTURER: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS 6. INSTALLATION OF DISCONNECTS AND STARTERS: D.1. DUPLEX RECEPTACLE, 15 AMP, 125 VOLT, 2-POLE, 3-WIRE, GROUNDING OF ONE OF THE FOLLOWING (FOR EACH TYPE AND RATING OF OVERCURRENT TYPE WITH NEMA CONFIGURATION 5-15R, MEETS FEDERAL SPEC. WC-596-F. PROTECTIVE DEVICE): A. SURFACE MOUNT ON WALLS OR COLUMNS APPROXIMATELY 5'-0" TO CENTERLINE ABOVE THE FLOOR WHERE POSSIBLE. A. BUSSMANN DIV; MCGRAW_EDISON CO. D.2. SINGLE RECEPTACLE, 20 AMP, 125 VOLT, 2-POLE, 3-WIRE, GROUNDING TYPE B. FERRAZ SHAWMUT, INC. B. DISCONNECT SWITCHES MOUNTED ON ROOFTOP AIR CONDITIONING UNITS TO BE WITH NEMA CONFIGURATION 5-20R, MEETS FEDERAL SPEC. WC-596-F. C. LITTELFUSE, INC. CAULKED BETWEEN SWITCH AND UNIT TO PROVIDE WEATHERPROOF SEAL. LEVITON #5351. ELECTRICAL CONTRACTOR TO VERIFY EXACT MOUNTING LOCATION ON UNIT SO AS 2. EXCEPT AS OTHERWISE INDICATED, PROVIDE FUSES OF TYPES, SIZES, RATINGS, AND NOT TO COVER UP ANY REMOVABLE PANELS. D.3. DUPLEX RECEPTACLE, 20 AMP, 125 VOLT, 2-POLE, 3-WIRE, GROUNDING AVERAGE TIME/CURRENT AND PEAK LET—THROUGH CURRENT CHARACTERISTICS TYPE WITH NEMA CONFIGURATION 5-20R, MEETS FEDERAL SPEC. WC-596-F. C. WHEN RELAYS OR CONTACTORS ARE INDICATED TO BE LOCATED ABOVE THE INDICATED, WHICH COMPLY WITH MANUFACTURER'S STANDARD DESIGN, MATERIALS, LEVITON #5352. CEILING, THE EQUIPMENT IS TO BE READILY ACCESSIBLE AND SOUND INSULATED AND CONSTRUCTION IN ACCORDANCE WITH PUBLISHED PRODUCT INFORMATION, AND FROM THE MOUNTING SUPPORTS. D.4. GROUND FAULT INTERRUPTER RECEPTACLE, 20 AMP, 125 VOLT, 2-POLE,

WITH INDUSTRY STANDARDS AND CONFIGURATIONS. ALL FUSES TO BE FOR USE WITH FUSE REJECTION CLIPS.

3. ALL FUSES FOR THIS PROJECT SHALL BE OF THE SAME MANUFACTURER TO INSURE SELECTIVE COORDINATION.

4. EXCEPT WHERE NOTED OTHERWISE, THREE (3) SPARE FUSES OF EACH SIZE

INSTALLED SHALL BE PROVIDED TO THE OWNER. 5. INSTALL FUSES WITH MANUFACTURER'S NAMETAG FACING OUTWARD.

6. SERVICE ENTRANCE AND FEEDER CIRCUITS 601 AMPERES AND LARGER. FUSES AMPERES R.M.S. SYMMETRICAL INTERRUPTING RATING.

7. FEEDER CIRCUITS, EXCEPT MOTOR CIRCUITS, 600 AMPERES AND SMALLER SHALL BE PLUG-IN CARTRIDGE U.L. CLASS RK-1, CURRENT-LIMITING WITH 200,000 AMPERES R.M.S. SYMMETRICAL INTERRUPTING RATING.

8. MOTOR, TRANSFORMERS, AND INDUCTIVE TYPE CIRCUITS 600 AMPERES AND SMALLER SHALL BE PLUG-IN CARTRIDGE U.L. CLASS RK-5 DUAL-ELEMENT WITH TIME DELAY. THEY SHALL ALSO HAVE CURRENT-LIMITING LINKS AND 200,000 AMPERES INTERRUPTING RATING. FUSE REDUCERS SHALL BE USED WHERE SWITCH FUSE CLIPS ARE SPACED LARGER THAN FUSE SIZE SHOWN ON DRAWING.

9. PLUG FUSES FOR INDIVIDUAL MOTOR PROTECTION SHALL BE BUSSMANN FUSTAT, DUAL-ELEMENT, 10,000 AMPERES R.M.S. SYMMETRICAL INTERRUPTING RATING, TYPE "S" WITH FUSTAT ADAPTER SIZED FOR PLUG-FUSE INSTALLED. SIZE OF FUSE TO BE ACCORDING TO SPECIFICATIONS FOR "DISCONNECT SWITCHES".

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.

E.1. TOGGLE TYPE SWITCH, 20 AMP, 120/277 VOLT AC SINGLE-POLE, QUITE TYPE, 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 E.4. WHEN A PILOT LIGHT IS INDICATED WITH SWITCHING DEVICE, PROVIDE SWITCH HANGER RODS AND CONDUITS. DEVICE WITH 1/25 WATT NEON PILOT INTEGRAL WITH TOGGLE HANDLE, RATED

> 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

8. UNLESS OTHERWISE INDICATED, FASTEN ELECTRICAL ITEMS AND THEIR SUPPORTING INSTALLATION IN LINOLEUM, WOOD OR CARPET FLOORS. EACH FLOOR OUTLET CONDUITS, RACEWAYS, CABLES, CABLE TRAYS, BUSWAYS, CABINETS, PANELBOARDS, TRANSFORMERS, BOXES, DISCONNECT SWITCHES, AND CONTROL COMPONENTS.

IN CONCRETE WITH OUT WRITTEN APPROVAL OF STRUCTURAL ENGINEER.

HARDWARE SECURELY TO THE BUILDING STRUCTURE, INCLUDING BUT NOT LIMITED TO

SECTION 16470 - PANELBOARDS

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. FATON CORPORATION D. SIEMEN'S, I.T.E.

2. POWER DISTRIBUTION PANELS: PROVIDE DEAD-FRONT SAFETY-TYPE DISTRIBUTION PANELBOARDS RATED 208/120, 3-PHASE, 4-WIRE. SHORT CIRCUIT RATING OF PANEL AND DEVICES TO BE 22,000 RMS MINIMUM UNLESS NOTED OTHERWISE ON THE DRAWINGS. PANELBOARDS SWITCHING AND PROTECTIVE DEVICES IN SOLDERLESS. PRESSURE—TYPE LINE SIDE CONNECTORS APPROVED FOR COPPER CONDUCTORS.

. 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.

4. 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.

. PANELBOARD MANUFACTURER TO PROVIDE A COMPLETE "ARC FLASH STUDY". ALL SUBMITTALS WILL BE REJECTED UNLESS THIS STUDY IS PROVIDED AT THE TIME OF SHOP DRAWING REVIEW.

REVISIONS No. Date Description 8/01/2023 RESPONSE TO CITY HEALTH COMMENTS 2 9/04/2023 3 9/12/2023 RESPONSE TO CITY

Description

ISSUE TABLE

Date

DI	DRAWINGS REVISED AS PER DESIGN BULLETIN		
No. Date Description			



PROJECT NORTH

9.13.2023

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Company Logo





US 2112 PROTOTYPE

2112-21

1517 NC 24-87 CAMERON, NC

ELECTRICAL SPECIFICATIONS

Drawn	Checked
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Scale	Date
	JUNE 2023
Project No.	Drawing No.
C22-129	ES.2

F.3. TYPE 'C': HUBBELL #B-2436, RECTANGULAR SINGLE-GANG BOX, BRASS PLATE #S2425 WITH 3/4 PLUG OPENING FOR CONNECTION OF FLEXIBLE CONDUÏT FROM EQUIPMENT. COVER TO BE PROVIDED WITH BRASS CARPET FLANGE FOR FLUSH INSTALLATION IN LINOLEUM, WOOD OR CARPET FLOORS. G. 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

INSTALLATION IN LINOLEUM, WOOD OR CARPET FLOORS.

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

D.5. USB RECEPTACLE, 20A, 125V, 2-POLE, 3-WIRE, GROUNDING TYPE WITH NEMA CONFIGURATION 5-20R, (2) VERTICAL USB PORTS WITH 3.6A CHARGING

D.5.1. WHERE SHOWN AS A QUAD RECEPTACLE ON PLANS, PROVIDE (2) USB

D.6. WEATHERPROOF RECEPTACLE SHALL BE A GROUND-FAULT INTERRUPTER WITH

3-WIRE, FACE WITH ORANGE TRIANGLE, GROUND SCREW ISOLATED FROM

MOUNTING YOKE, NEMA CONFIGURATION 5-20RIG. LEVITON #5362-IG.

D.9. HEAVY DUTY RECEPTACLES SHALL BE OF THE SAME MANUFACTURER AS THE

CONVENIENCE OUTLETS AND HAVE THE RATINGS AND CHARACTERISTICS

EARS, SIDE-WIRED SCREW TERMINALS, MEETS FEDERAL SPEC WS-896.

E.1.1. DOUBLE-POLE, 3-WAY, AND 4-WAY SWITCHES SHALL BE OF THE SAME

YOKE INSULATED FROM MECHANISM, EQUIPPED WITH PLASTER EARS,

E.2.1. DOUBLE-POLE, 3-WAY, AND 4-WAY SWITCHES SHALL BE OF THE SAME

E.3. WHEN A LIGHTED HANDLE IS INDICATED WITH SWITCHING DEVICE, PROVIDE

120/277 VOLT. <u>GLOWS WHEN SWITCH IS "ON"</u>. PASS & SEYMOUR

F.1. <u>TYPE 'A'</u>: HUBBELL #B-2436, RECTANGULAR SINGLE-GANG, WATERTIGHT BOX

SHALL BE COMPLETE WITH ONE 20 AMP, 125 VOLT DUPLEX BROWN

ADJUSTABLE, WATERTIGHT BOX WITH ONE S-3825 DUPLEX FLAP COVER

TELEPHONE/COMPUTER CABLES. BOX COVER PLATES SHALL BE BRASS. COVER TO BE PROVIDED WITH BRASS CARPET FLANGE FOR FLUSH

PLATES WITH ENGRAVED LEGEND WHERE INDICATED. CONFORM TO REQUIREMENTS

COMPLETE WITH ONE 20 AMP, 125 VOLT DUPLEX BROWN RECEPTACLE AS SPECIFIED UNDER "RECEPTACLES". ALSO PROVIDE ONE #S-2625 COVER

F.2. TYPE 'B': HUBBELL #B-4233, RECTANGULAR DOUBLE-GANG, FULLY

PLATE WITH ONE #S-3067 SPLIT NOZZLE FOR PROTECTION OF

RECEPTACLE AS SPECIFIED UNDER "RECEPTACLES".

WITH ONE S-3825 DUPLEX FLAP COVER. BOX COVER PLATE SHALL BE BRASS. COVER TO BE PROVIDED WITH BRASS CARPET FLANGE FOR FLUSH

E.2. KEY TYPE SWITCH, 20 AMP, 120/277 VOLT AC SINGLE-POLE, WITH MOUNTING

SIDE-WIRED SCREW TERMINALS, POLISHED METAL TOP AND PROVIDE WITH

SWITCH DEVICE WITH 1/25 WATT NEON PILOT INTEGRAL WITH TOGGLE HANDLE,

RATED 120/277 VOLT. GLOWS WHEN SWITCH IS "OFF". PASS & SEYMOUR

GROUNDING TYPE WITH NEMA CONFIGURATION 5-20R, PERMANENTLY LABELED

CONTROLLED RECEPTACLE AND (1) DUPLEX RECEPTACLE AS SPECIFIED

WITH MOUNTING YOKE INSULATED FROM MECHANISM, EQUIPPED WITH PLASTER

WITH CONTROLLED SYMBOL, MEETS FEDERAL SPEC. WC-596-F. LEVITON

D.8. CONTROLLED DUPLEX RECEPTACLE, 20 AMP, 125 VOLT, 2-POLE, 3-WIRE,

D.8.1. WHERE SHOWN AS A QUAD RECEPTACLE ON PLANS, PROVIDE (1)

(VOLTAGE, AMPS, POLES, WIRES) AS SHOWN ON DRAWINGS.

MAKE AS FOR SINGLE-POLE.

ONE STEEL KEY. LEVITON #1121-2L.

MAKE AS FOR SINGLE-POLE.

#20AC1-CSL.

#20AC1-RPL.

F. FLOOR RECEPTACLES:

LOCATE BOX VERTICAL IN WALL. PLATE TO BE LISTED AND LABELED

D.7. ISOLATED GROUND DUPLEX RECEPTACLE, 20 AMP, 125 VOLT, 2-POLE,

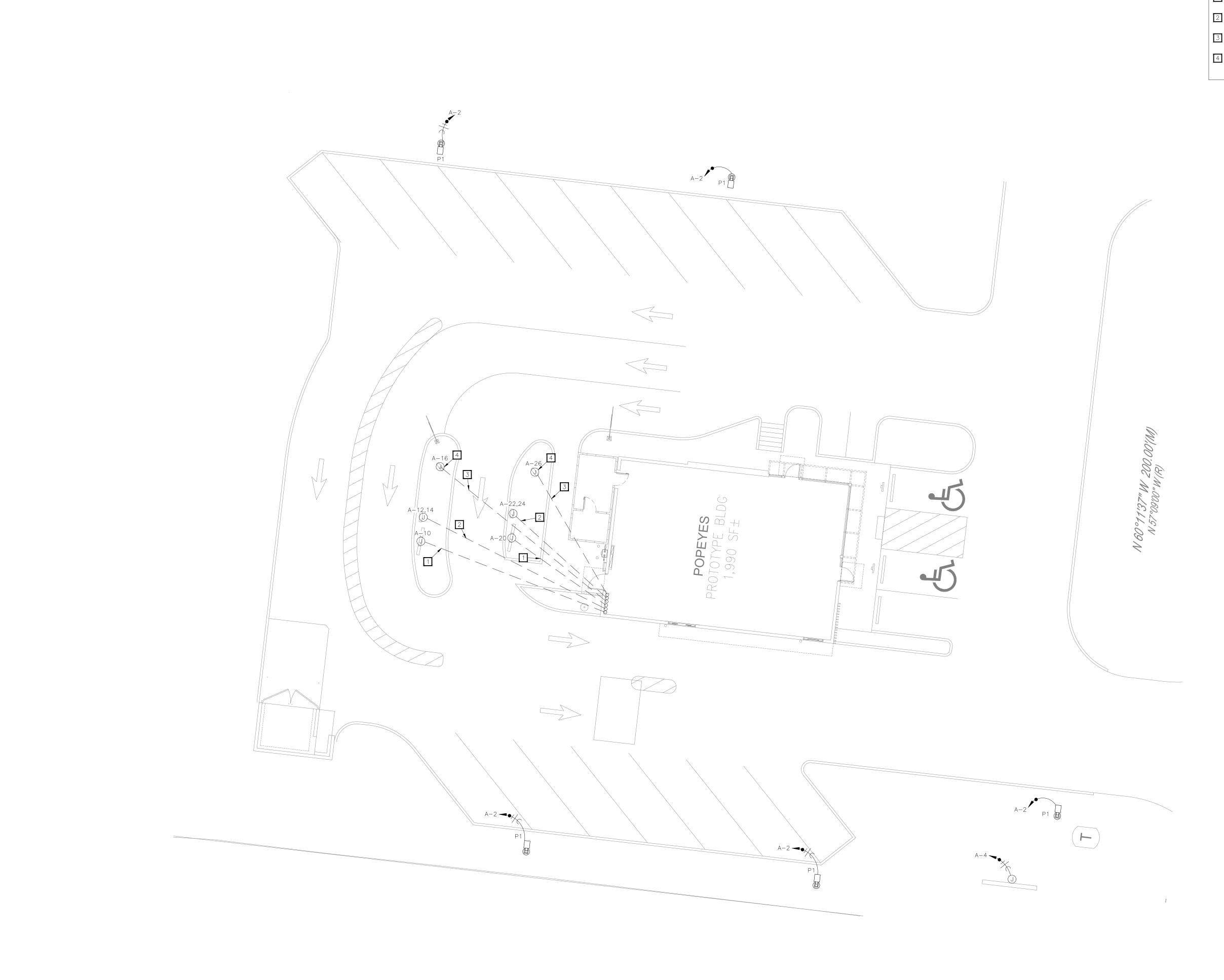
THOMAS & BETTS #CKSUV DIF-CAST ALUMINUM "SMALL" COVER PLATE.

RECEPTACLES AS SPECIFIED ABOVE.

"SUITABLE FOR WET LOCATIONS WHILE IN USE.

CAPACITY (MINIMUM), MEETS FEDERAL SPEC. WC-596-F. LEVITON #T5832

#G5362-WT*.



ELECTRICAL KEYNOTES

PROVIDE (1) 3/4" PVC CONDUIT FOR POWER AND (1) 1/ 2" PVC CONDUIT FOR DATA TO OUTDOOR MENUBOARD.

PROVIDE (1) 3/4" PVC CONDUIT FOR POWER AND (1) 1/2" PVC CONDUIT FOR DATA TO ORDER PEDESTAL AND DETECTOR LOOP.

PROVIDE (1) 3/4" PVC CONDUIT FOR POWER AND (1) 1/2" PVC CONDUIT FOR DATA TO PRE ORDER MENUBOARD.

CONDUIT FOR DATA TO PRE ORDER MENUBOARD.

4 PROVIDE POWER TO INDEPENDENT STANDING DRIVE THRU LIGHT POSTS.

CONFIRM CONNECTION WITH LIGHT POST MANUFACTURER (ENTERA)

ISSUE TABLE			
No.	Date (mm/dd/yy)	Description	

REVISIONS				
No.	Date	Description		
1	8/01/2023	RESPONSE TO CITY		
2	9/04/2023	HEALTH COMMENTS		
3	9/12/2023	RESPONSE TO CITY		

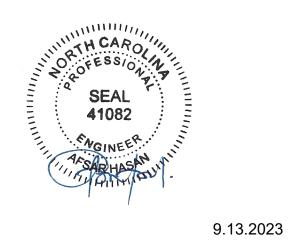
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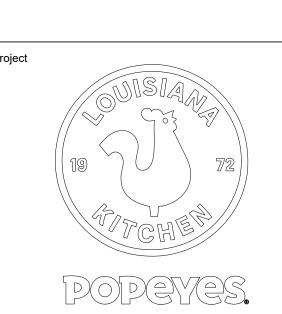
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Company Logo

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TEL: 214-343-9400 www.dimensiongrp.com



Store Type
US 2112 PROTOTYPE
2112-21

1517 NC 24-87 CAMERON, NC

Drawing Title

ELECTRICAL SITE PLAN

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Project No.	Drawing No.	Ų
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