

01 MECHANICAL PLAN
1/4"=1'-0"

MECHANICAL KEY NOTES

- 1 PROVIDE DUCT MOUNTED SMOKE DETECTOR. TIE IN AUDIO-VISUAL ANNUNCIATOR. UPON DETECTION OF SMOKE, ROOFTOP UNIT SHALL SHUT 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 OWNER'S REPRESENTATIVE.
- 4 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 MAINTAIN SPACE HUMIDITY AT 55% RH.
- 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 HOOD SPECIFICATION AND ADDITIONAL INFORMATION.
- 6 INSTALL OWNER FURNISHED UL-2221 LISTED DOUBLE-WALL GREASE DUCT, EQUAL TO FRANKIE 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 CLEAN-OUT.
- 7 DUCT UP TO EQUIPMENT ON ROOF. REFER TO SHEET M1.2 FOR EQUIPMENT LOCATION.
- 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 PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 10 UNDERCUT DOOR BY 3/4" FOR AIR TRANSFER

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 DUCT RISES AND DROPS AS REQUIRED FOR FIELD INSTALLATION 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 STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.
- D. ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE GOVERNING CITY. PURCHASE ALL PERMITS ASSOCIATED WITH THE WORK. OBTAIN ALL INSPECTIONS REQUIRED BY CODE.
- E. SUPPORT NEW MECHANICAL SYSTEMS WITH SEISMIC RESTRAINTS IN ACCORDANCE WITH SEISMIC HAZARD LEVEL 'A' OF THE SEISMIC RESTRAINT MANUAL, AS PUBLISHED BY SMANA, AND IN ACCORDANCE WITH THE CALIFORNIA BUILDING CODE, LATEST EDITION.

AIR DISTRIBUTION SIZING - ROUND DUCT

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

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

* DIFFUSER NECK SIZES SHALL MATCH SUPPLY AIR DUCT SIZING.

ISSUE TABLE

No.	Date (mm/dd/yyyy)	Description

REVISIONS

No.	Date	Description

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description



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6.13.2023

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ARCHITECTURE-CIVIL ENGINEERING-MEP ENGINEERING
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Project

POPEYES

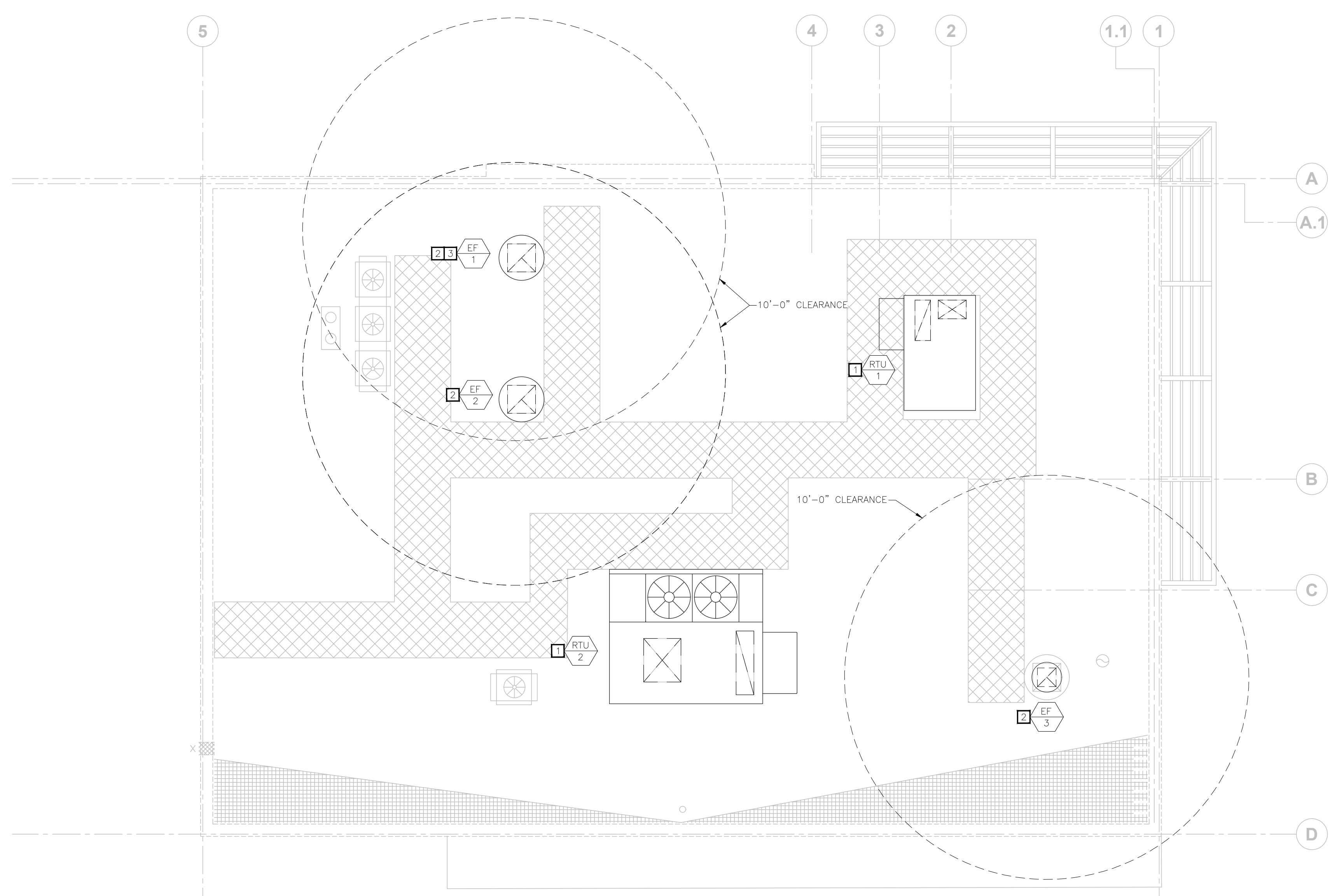
Store Type
US 2124 PROTOTYPE
2112-21

Location
1517 NC 24-87
CAMERON, NC

Drawing Title
MECHANICAL PLAN

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

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129



- MECHANICAL KEY NOTES**
- 1 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.
 - 3 INSTALL OWNER FURNISHED 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.

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Project

Store Type
US 2124 PROTOTYPE
2112-21

Location
1517 NC 24-87
CAMERON, NC

Drawing Title
MECHANICAL ROOF PLAN

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

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129

2018 INTERNATIONAL MECHANICAL CODE - TABLE 403.3.1.1 VENTILATION SUMMARY

OCCUPANCY CATEGORY	PEOPLE OUTDOOR AIR RATE - (Rp) (CFM/PERSON)	AREA OUTDOOR AIR RATE - (Ra) (CFM/SQ.FT.)	OCCUPANCY DENSITY P/1,000 SQ.FT.	OCCUPANCY CLASSIFICATION P/1,000 SQ.FT.	CALCULATED OCCUPANCY DENSITY	ZONE OCCUPANCY OVERRIDE	PEOPLE EXPECTED TO OCCUPY THE ZONE - (Pz)	Rp/Pz	Ra/Az	AREA - (Az) SQ.FT.	ZONE AIR DISTRIBUTION EFFECTIVENESS - Ez	BREATHING ZONE OUTDOOR AIRFLOW - (Vbz) CFM	ZONE OUTDOOR AIRFLOW (Voz)	ZONE PRIMARY AIRFLOW (Vpz)	PRIMARY OUTDOOR AIR FRACTION (Zp) Zp=Voz/Vpz	OCCUPANT DIVERSITY RATIO (D)	UNCORRECTED OUTDOOR AIR INTAKE (Vou) CFM	SYSTEM VENTILATION EFFICIENCY Ev	CORRECTED OUTDOOR AIRFLOW (Vot) CFM	PROVIDED OUTDOOR AIRFLOW CFM							
																					MAX Zp =	D	Ev	Vot	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	—	0.06	—	CORRIDOR	—	—	—	—	2	40	0.8	2	3	150	0.02		2		3								
RESTROOM	—	—	—	RESTROOM	—	—	—	—	—	55	0.8	—	—	50	—		—		—								
SYSTEM POPULATION INCLUDING DIVERSITY (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								
BOH	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 POPULATION INCLUDING DIVERSITY (Ps) =							21														MAX Zp =	0.09	1.00	278	1.00	278	2,500

ROOFTOP UNIT SCHEDULE

MARK (RTU-#)	1	2
MANUFACTURER	CARRIER	CARRIER
MODEL	50GCBK06	50FCN14
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	0.80
DX COOLING COIL		
EAT (°FDB/WB)	80/67	80/67
TOTAL (BTU/HR)	59,000	151,500
SENSIBLE (BTU/HR)	46,800	118,500
ELECTRIC HEAT		
FUEL	ELECTRIC (329A)	ELECTRIC (417A)
ELECTRIC HEAT (KW)	17.4	50
WINTER SA TEMP (°F)	87	76
FLA (Amps)	15.6	120.3
ELECTRICAL		
VOLTS/Ø/HZ	208-230/3/60	208-230/3/60
UNIT MCA	31	160
MOCP AMPS	45	175
APPROX. WEIGHT (LBS)	752	1,018
EER (SEER)	12.8 (17.4)	10.4
NOTES	1-14	1-11,13-15

- NOTES:**
- 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.
 - 5) 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 MAXIMUM 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)						365

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

ACCESSORIES:
 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

- NOTES:**
- 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.

GRILLE, REGISTER, AND DIFFUSER SCHEDULE

MARK	A	B	C
MANUFACTURER	TITUS	TITUS	TITUS
MODEL	TMS-AA	TMS-AA	PAR-AA
TYPE	SQUARE CONE DIFFUSER	SQUARE CONE DIFFUSER	PREFORATED FACE 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 DIFFUSER	LOUVERED EXHAUST GRILLE	EGGCRAE 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
ACCESSORIES	TRM	STR	

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

AIR CURTAIN SCHEDULE

MARK (AC-#)	1
MANUFACTURER	MARS
MODEL	LPV236-1UA-OB
AIR FLOW (CFM)	900
ELECTRICAL	
VOLTS/Ø/HZ	115
MOTOR QUANTITY	1
MOTOR HP	1/8
MCA (AMPS)	3
MOCP (AMPS)	15
FINISH	OBSIDIAN BLACK
APPROX. WEIGHT (LBS)	32
NOTES	1-3

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

ISSUE TABLE

No.	Date (mm/dd/yyyy)	Description

REVISIONS

No.	Date	Description

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

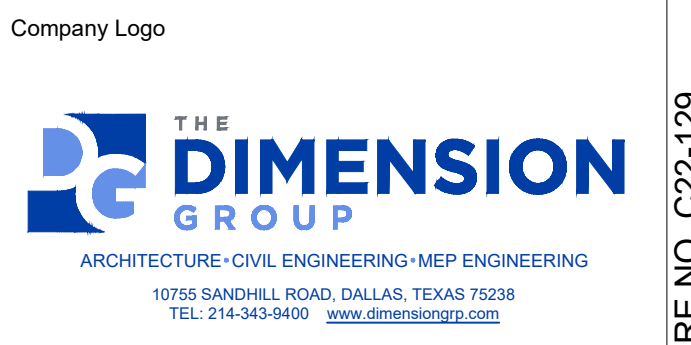


PROJECT NORTH

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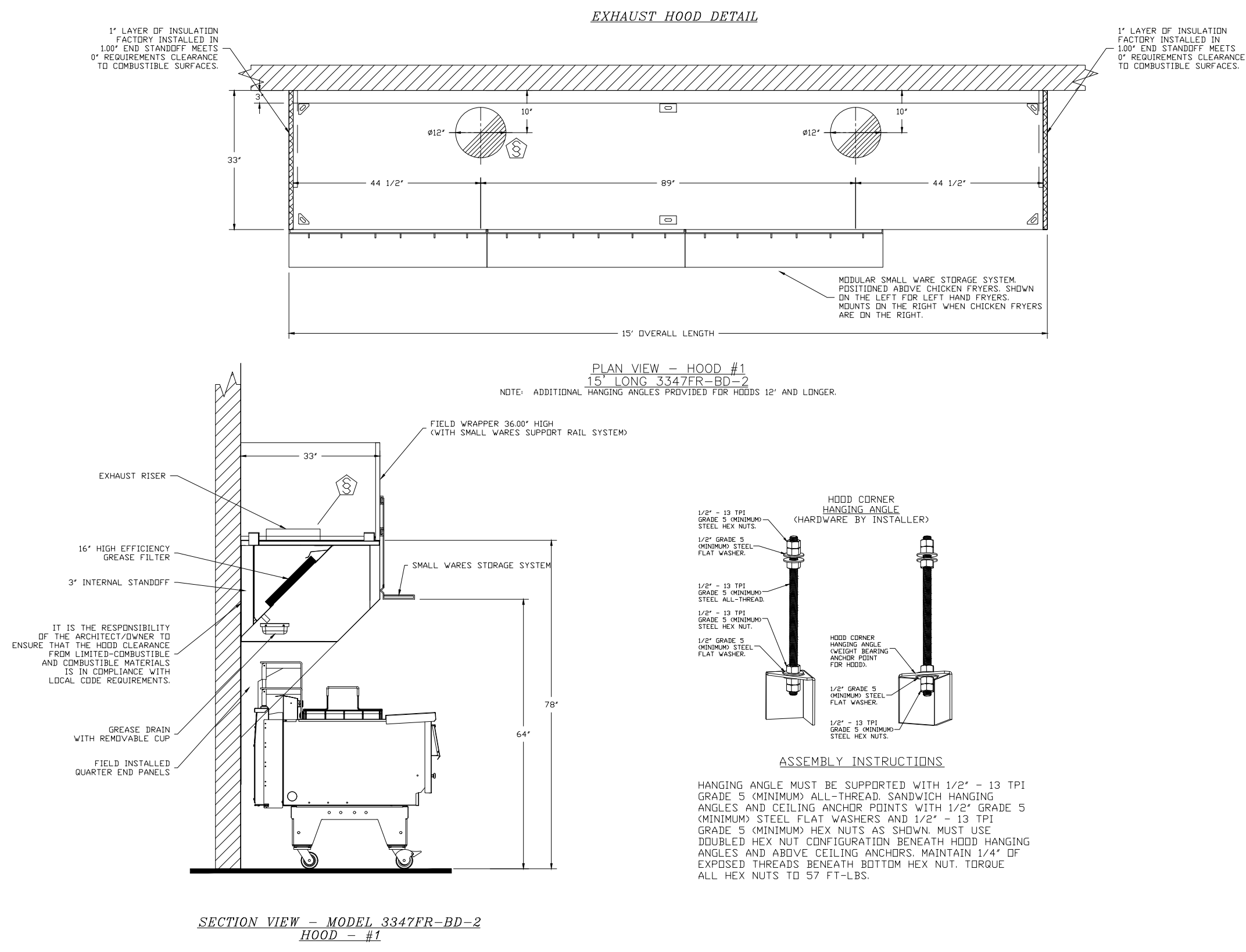
Store Type
 US 2124 PROTOTYPE
 2112-21

Location
 1517 NC 24-87
 CAMERON, NC

Drawing Title
 MECHANICAL SCHEDULES

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

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129

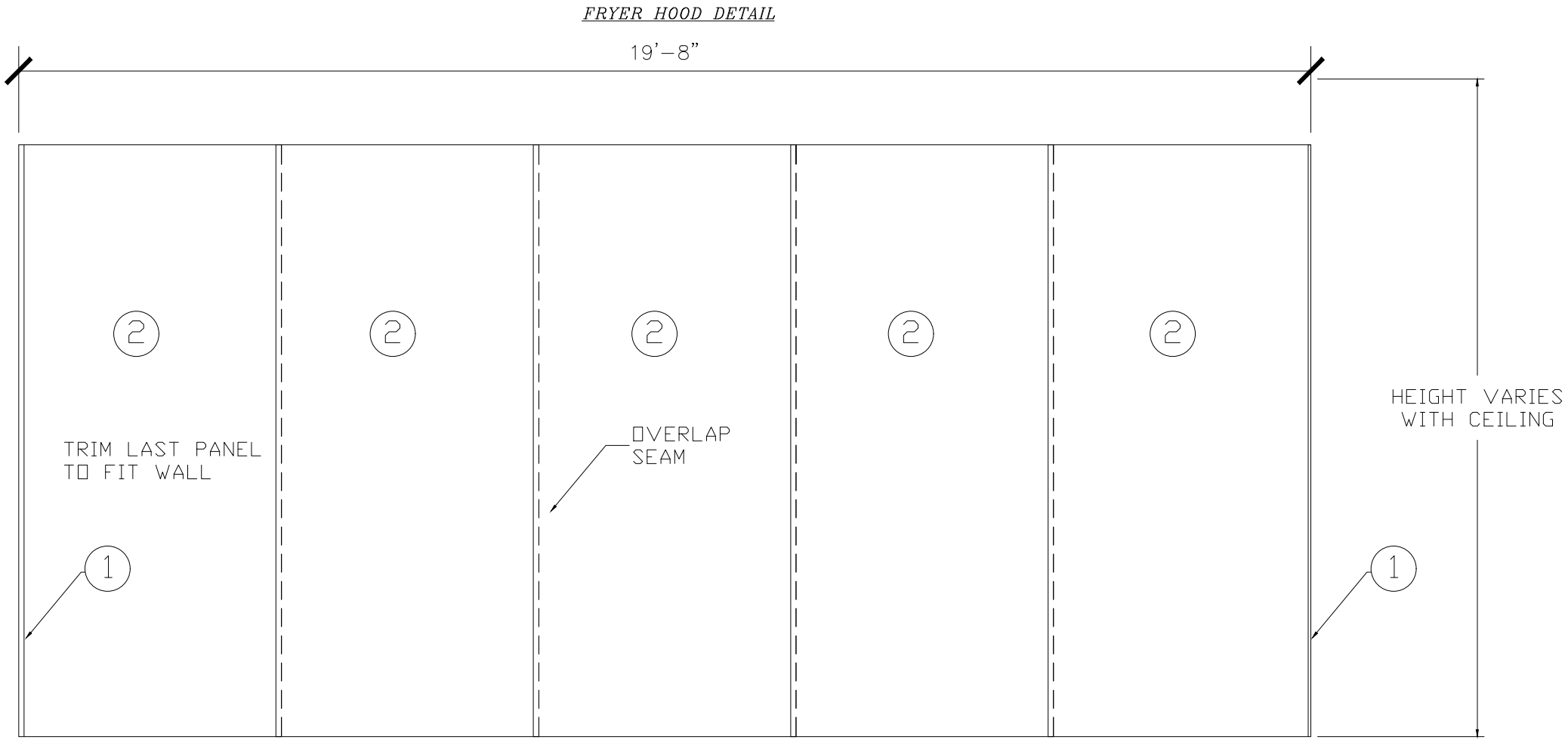


1 EXHAUST HOOD DETAIL
 1 SCALE: NO SCALE



PLK 2112
 15' HOOD 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

2 BACKSPASH DETAIL
 1 SCALE: NO SCALE

Revision #	Date	Description
A	10/01/20	INITIAL ISSUE

ISSUE TABLE

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Account: POPEYES Restaurant # PLK 2112
 Title: WALL MOUNTED INSTALLATION DETAIL
 Site ID: -
 Operator: -
 Site Address: -
 City: -
 State: - Zip Code: - Country: -
 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: -

Revision: A
 1 OF 4

Company Logo

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 10755 SANDHILL ROAD, DALLAS, TEXAS 75238
 TEL: 214-343-9400 www.dimensiongroup.com

Project

POPEYES

Store Type: US 2124 PROTOTYPE 2112-21

Location: 1517 NC 24-87 CAMERON, NC

Drawing Title: MECHANICAL HOOD DRAWINGS

Drawn	Checked
NI	AH

Scale	Date
1/4" = 1'-0"	JUNE 2023

Project No.	Drawing No.
C22-129	M3.1

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129

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 VENTILATION 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. IF 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.

HEATING:

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 DE-ENERGIZED 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.

HEATING:

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 OCCUPANCY.

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

WARRANTY: PROVIDE LABOR AND MATERIALS TO REPAIR OR REPLACE DEFECTIVE PARTS AND MATERIALS AS REQUIRED FOR ONE YEAR AFTER SUBSTANTIAL COMPLETION OR OWNER ACCEPTANCE OF 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 (GALVALNEAL) 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 223 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 LARGER ACCESS DOORS.

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.

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 FYREWARP 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 HAZARDOUS 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 (O&M): AT COMPLETION OF PROJECT PROVIDE A MINIMUM OF TWO O&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 NAME
- DATE
- NAME AND ADDRESS OF ARCHITECT AND MEP ENGINEER
- NAME OF CONSTRUCTION MANAGER
- NAME OF CONTRACTOR
- NAME OF FIRM OR ENTITY THAT PREPARED SUBMITTAL
- NAMES OF SUBCONTRACTOR, MANUFACTURER, AND SUPPLIER.
- CATEGORY AND TYPE OF SUBMITTAL
- SUBMITTAL PURPOSE AND DESCRIPTION
- MANUFACTURER NAME
- PRODUCT NAME
- DRAWING NUMBER AND DETAIL REFERENCES, AS APPROPRIATE
- INDICATION OF FULL OR PARTIAL SUBMITTAL
- TRANSMITTAL NUMBER
- REMARKS

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

SUBMITTALS SHALL INCLUDE (AS APPLICABLE):

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

FULL SIZE SHOP DRAWINGS SHALL INCLUDE (AS APPLICABLE):

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

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

MECHANICAL SYMBOLS LEGEND

ABBREVIATIONS:

AHJ	AUTHORITY HAVING JURISDICTION
BTU	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
NC	NOISE CRITERIA
RTU	ROOFTOP UNIT
WB	WET BULB

GRILLES/DIFFUSERS:

	SUPPLY DIFFUSER
	RETURN GRILLE
	EXHAUST GRILLE

DOUBLE LINE DUCT SYMBOLS:

	NEW SHEET METAL DUCTWORK & SIZE
	SUPPLY OR OUTSIDE AIR DUCT
	RETURN AIR DUCT
	EXHAUST AIR DUCT
	DUCTWORK TRANSITION
	DUCTWORK TRANSITION - RECTANGULAR TO ROUND
	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
	MECHANICAL EQUIPMENT DESIGNATION
	DIFFUSER DESIGNATION AND CFM

EQUIPMENT:

	ROOF MOUNTED EXHAUST FAN
	ROOFTOP UNIT
	THERMOSTAT - ELECTRIC
	TEMPERATURE SENSOR
	TEMPERATURE/HUMIDITY SENSOR
	DUCT SMOKE DETECTOR

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

ISSUE TABLE

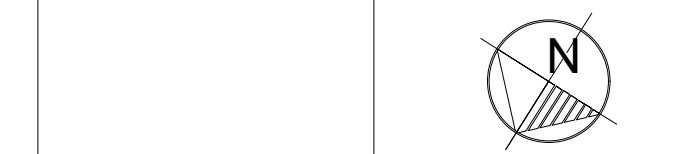
No.	Date (mm/dd/yy)	Description

REVISIONS

No.	Date	Description

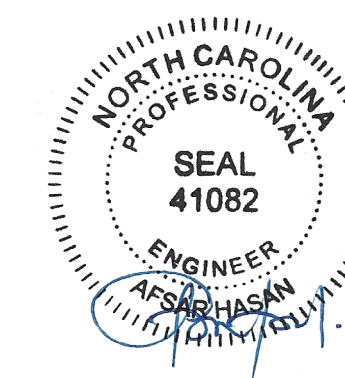
DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description



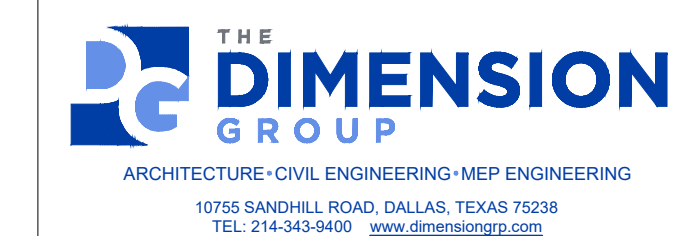
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THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT AND TO REPORT ANY DISCREPANCIES TO THE POPEYES LOUISIANA KITCHEN REPRESENTATIVE PRIOR TO COMMENCING WORK. THESE DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS INDICATED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



6.13.2023

Company Logo



Project



POPEYES

Store Type

US 2124 PROTOTYPE
2112-21

Location

1517 NC 24-87
CAMERON, NC

Drawing Title

MECHANICAL
SPECIFICATIONS

Drawn	Checked
NI	AH
Scale	Date
1/4" = 1'-0"	JUNE 2023
Project No.	Drawing No.
C22-129	MS.1.1

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 SLOPES, DROPS, AND OFFSETS AS REQUIRED FOR FIELD INSTALLATION AND TRADE COORDINATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING WORK.
- C. DRAWINGS FOR PLUMBING WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENT. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE PIPING, CONNECTIONS, FITTINGS, VALVES, OFFSETS AND ALL MATERIALS NECESSARY FOR A COMPLETE SYSTEM.
- D. ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE GOVERNING CITY AND THE AUTHORITY HAVING JURISDICTION. PURCHASE ALL PERMITS ASSOCIATED WITH THE WORK. OBTAIN ALL INSPECTIONS REQUIRED BY CODE.
- E. PROVIDE WATER HAMMER ARRESTORS THROUGHOUT WATER SYSTEMS AS REQUIRED PER "WATER HAMMER ARRESTERS" DETAIL.
- F. PROVIDE BACKFLOW PREVENTION DEVICES IN WATER LINES FEEDING PLUMBING FIXTURES AND/OR EQUIPMENT AS SHOWN ON PLANS AND ELSEWHERE AS REQUIRED BY AUTHORITY HAVING JURISDICTION. USE DEVICES OF APPROVED MANUFACTURER AND TYPE IN ACCORDANCE WITH REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
- G. CONTRACTOR SHALL VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. IF PRESSURE AT BUILDING ENTRY PRIOR TO ALL LOCALLY REQUIRED DEVICES IS LESS THAN 60 PSIG STATIC, CONTACT OWNER'S REPRESENTATIVE. IF PRESSURE EXCEEDS 80 PSIG, PROVIDE PRESSURE REDUCING VALVE.
- H. SUSPEND HORIZONTAL SERVICE PIPING FROM UNDERSIDE OF ROOF OR FLOOR STRUCTURE UNLESS OTHERWISE INDICATED. INSTALL PIPING AS HIGH AS POSSIBLE. EXTEND PIPING DOWN IN WALLS, PARTITIONS AND CHASES TO SERVICE FIXTURES AND EQUIPMENT.
- I. VERIFY SERVICE CONNECTION POINTS, SIZES, ELEVATIONS AND METERING LOCATIONS FOR PROJECT WITH LOCAL UTILITY COMPANIES AND/OR CIVIL ENGINEER, AS APPLICABLE.
- J. WATER ENTRY SERVICE PIPING, NEW AND/OR REVISED, CONTRACTOR SHALL ENSURE AND PROVIDE MINIMUM 10'-0" LINEAR FEET OF 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 PROCEEDS 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 1/2" SCH 40 BLACK STEEL PIPE FOR GREASE DISCHARGE. RUN LINE FLUSH ON WALL BESIDE FRYERS, VERTICALLY UP IN WALL THROUGH CEILING. SLOPE LINE @ 1/4" FT 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 - CEILING DOWN).

PLUMBING SYMBOLS LEGEND

ABBREVIATIONS:

AFF/AFG ABOVE FINISHED FLOOR/GRADE
 FCCO/FGCO/WCO/CO FLUSH FLOOR/FLUSH GRADE/WALL/CLEANOUT
 FSEC FOOD SERVICE EQUIPMENT CONTRACTOR
 TYP TYPICAL
 VTR VENT THRU ROOF
 (E) EXISTING

LINETYPES:

----- EXISTING PLUMBING LINE - SEE DRAWING
 ----- COLD WATER (CW)
 ----- COLD WATER (CW) - BELOW SLAB/GRADE
 ---FW--- FILTERED WATER SUPPLY (FW)
 ---HW--- HOT WATER (HW) 140°
 ---HWR--- HOT WATER RETURN (HWR)
 ---G--- NATURAL GAS LINE
 ---D--- CONDENSATE LINE (D)
 ---V--- PLUMBING VENT (V)
 ----- PLUMBING VENT (V) - BELOW SLAB/GRADE
 ---SAN--- SANITARY WASTE (SAN) - BELOW SLAB/GRADE
 ---GW--- GREASE WASTE (GW) - BELOW SLAB/GRADE
 ---WH--- WATER HEATER VENT
 ---SC--- SODA CHASE
 ---CO--- USED COOKING OIL
 ---ST--- STORM LINE (ST)
 ---OST--- OVERFLOW STORM LINE (OST)

GENERAL REFERENCES/NOTATIONS:

01/P1 DETAIL OR SECTION # REVISION
 [Symbol] CONNECT TO EXISTING [Symbol] PLAN NOTE
 [Symbol] HVAC EQUIPMENT [Symbol] FOOD SERVICE EQUIPMENT

PIPE SYMBOLS:

[Symbol] PIPE UP/DOWN [Symbol] BALL/PLUG VALVE
 [Symbol] TEE UP/DOWN [Symbol] BALANCING/CHECK VALVE
 [Symbol] 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.

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE TYPE	MANUF.	MODEL	DESCRIPTION	ACCESSORIES/OPTIONS
WC	WATER CLOSET (ACCESSIBLE)	AMERICAN STANDARD	3043.001 "MADERA"	FLOOR MOUNT, WHITE VITREOUS CHINA, 1.1-1.6 GPF ELONGATED SIPHON JET BOWL, 1-1/2" TOP SPUD, & RIM HEIGHT 17" A.F.F. PROVIDE WITH SLOAN MANUAL DUAL FLUSH 1.6/1.1 GPF WATER CLOSET FLUSH VALVE. PROVIDE FLUSH LEVER ON ACCESSIBLE SIDE. INSTALL IN ACCORDANCE TO ADA ACCESSIBILITY REQUIREMENTS.	MAINLINE #ML1055SSCOO WHITE OPEN FRONT ELONGATED TOILET SEAT LESS COVER.
LAV	LAVATORY (ACCESSIBLE)	AMERICAN STANDARD	#0356.921.020 LUCERNE	WALL HUNG, 20"x18" WHITE VITREOUS CHINA, BACK OVERFLOW. PROVIDE WITH SLOAN EPF-650 4" CENTER SET, BATTERY POWERED SENSOR FAUCET WITH FACTORY SET 0.175 GPC 0.35 GPM AERATOR. INSTALL IN ACCORDANCE TO ADA ACCESSIBILITY REQUIREMENTS.	PROVIDE WITH QUARTER TURN BRASS ANGLE COMPRESSION STOPS WITH LOOSE KEY HANDLES, STAINLESS BRAIDED SUPPLIES, CHROME ESCUTCHEONS, CHROME GRID STRAINER DRAIN 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.
FPWH	FROST PROOF WALL HYDRANT	WOODFORD	MODEL 65	ANTI-SIPHON, AUTOMATIC DRAINING, WALL HYDRANT, NON-FREEZE INTEGRAL VACUUM BREAKER, ALL BRONZE INTERIOR PARTS, KEY OPERATED, 3/4" SOLDER INLET.	MOUNT 18" ABOVE FINISHED GRADE. PROVIDE APPROPRIATE MODEL FOR WALL THICKNESS AND SITE SPECIFIC TEMPERATURE REQUIREMENTS.
ID	TRENCH DRAIN	ZURN	Z886-SOG	6-1/4"x24" HDPE TRENCH DRAIN WITH STAINLESS DECORATIVE GRATE. FIELD CUT TRENCH DRAIN AS REQUIRED. COORDINATE FINISHED WIDTH AND LOCATION WITH ARCHITECT PRIOR TO ISNTALLATION.	SET TRENCH DRAIN LEVEL WITH FINISH FLOOR.
FD	FLOOR DRAIN	SIOUX CHIEF / ZURN	832-350-NR / #2N415-B-3NH	FLOOR DRAIN WITH 6" ROUND NICKEL BRONZE ADJUSTABLE STRAINER & 3" BOTTOM OUTLET.	PROVIDE WITH TRAP PRIMER CONNECTION AND WITH ASSE 1072 APPROVED TRAP SEAL DEVICE. TRAP SEAL DEVICE SHALL BE TRAP PROSET TRAPGUARD OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE DRAINS IN CUSTOMER AREAS WITH VANDAL RESISTANT SCREWS.
FS	FLOOR SINK	SIOUX CHIEF / ZURN	#861-3PN-D / #Z1900-3NH-K-4	12" SQUARE TOP FLOOR SINK W/8" DEEP & 3" BOTTOM OUTLET	SET FLOOR SINK LEVEL WITH FINISH FLOOR.
RD	ROOF DRAIN	WATTS	RD-250	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 OUTLETS. PROVIDE OUTLET SIZE AS SHOWN ON PLANS.	INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. UNDERDECK CLAMP AND SUMP RECEIVER - FIELD VERIFY ROOF INSTALLATION REQUIREMENTS AND COORDINATE INSULATION THICKNESS.
DSN	DOWNSPOUT NOZZLE	WATTS	Z199	ALL NICKEL BRONZE BODY WITH DECORATIVE FACE OF WALL FLANGE AND OUTLET NOZZLE.	COORDINATE MOUNTING LOCATION WITH ARCHITECTURAL ELEVATIONS.
TP	TRAP PRIMER	PPP	P1-500	AUTOMATIC OPERATION, 1/2" INLET AND OUTLET. SERVICE UP TO FOUR FLOOR DRAINS WITH DISTRIBUTION UNIT.	INSTALL IN ACCESSIBLE LOCATION WITH PRIMER LOCATED MINIMUM OF 6" ABOVE FLOOD LEVEL OF FLOOR DRAIN RIM. PROVIDE ACCESS PANEL AS REQUIRED.
MV	MIXING VALVE	SYMMONS	7-225-CK "MAXLINE"	1/2" INLETS AND OUTLET, THERMOSTATIC CONTROLLER WITH INTEGRAL CHECKS, ALL BRASS BODY WITH DUAL STAINLESS STEEL STRAINER, VANDAL RESISTANT TEMPERATURE ADJUSTMENT HANDLE.	SET TO 105°F. MOUNT IN ACCESSIBLE LOCATION.

TANK ELECTRIC WATER HEATER SCHEDULE

SYMBOL	MANUFACTURER	MODEL	KW (BTU)	V/PH	GPH @ 60° F RISE	SET POINT (°F)	NOTES (#)
WH-1	RHEEM	ES120-24-G	24 (81,893)	208/3	70	120	(1), (2), (3)

NOTES:

- WATER HEATER TANK SHALL HAVE A WORKING PRESSURE OF 150PSI, PER MANUFACTURER'S REQUIREMENTS.
- FURNISH WITH EXPANSION TANK AS SPECIFIED ON PLANS.
- PROVIDE WITH 1-1/2" COLD WATER AND HOT WATER LINES

EXPANSION TANK SCHEDULE

SYMBOL	MANUFACTURER	MODEL	TOTAL VOLUME (GALLONS)	ACCEPTANCE VOLUME (GALLONS)	CONNECTION LOCATION	CONNECTION SIZE	MOUNTING	NOTES (#)
EI	AMTROL	ST-5	2	.45	TOP	3/4"	NEAR WH-1	(1), (2)

NOTES:

- 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.
- FIELD CHARGE EXPANSION TANK TO SYSTEM PRESSURE BEFORE CONNECTION TO DOMESTIC WATER SYSTEM. FIELD VERIFY PRESSURE REQUIREMENTS.

PUMP SCHEDULE

SYMBOL	MANUFACTURER	MODEL	GPM	HEAD (FT)	VOLTAGE	PHASE	WATTS	AMPS	NOTES (#)
RCP	GRUNDFOS	ALPHA2	5	12	115	1	5 - 65	0.65	(1)

NOTES:

- 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

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

NOTES:

- 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).
- PROVIDE WITH EC-W-GF CONTROLLER WITH GROUND FAULT PROTECTION, AND NECESSARY COMPONENTS TO PUT IN WORKING ORDER. INSTALL CABLE PER MANUFACTURER'S RECOMMENDATIONS.

GREASE INTERCEPTOR SCHEDULE

SYMBOL	MANUFACTURER	MODEL	FLOW RATE (GPM)	GREASE CAPACITY (LBS.)	LIQUID CAPACITY (GAL.)	NOTES (#)
GI	SCHIER	GB-250	100	1,895	277	(1), (2), (3)

NOTES:

- CONTRACTOR SHALL SUBMIT PROPOSED GREASE INTERCEPTOR INSTALLATION PLANS AND SPECIFICATIONS TO LOCAL AUTHORITIES FOR THEIR APPROVAL BEFORE ACQUISITION. SEE MANUFACTURER INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS.
- PROVIDE WITH C24HP H2O LOAD RATED PICKABLE CAST IRON LIDS WITH "SAFE MANWAY" FALL PROTECTION COVER.
- PROVIDE WITH AK1 ANCHOR KIT.

FOODSERVICE PLUMBING SCHEDULE

ID	DESCRIPTION	REMARKS
A10.30	MULTIPLE FRYER SYSTEM, GAS	
A24.02	MULTIPLE FRYER SYSTEM, GAS	
A35.00	1 COMPARTMENT SINK	
A35.10	PRE-RINSE FAUCET ASSEMBLY	
C10.32	POPEYES DUAL SIDE SANDWICH PREP	
D29.00	PACKING TABLE, DOUBLE SIDED	
D40.00	3 COMPARTMENT SINK	
D40.01	PRE-RINSE FAUCET ASSEMBLY	
D50.00	DISHWASHER	
D70.00	HOT WATER DISPENSER	
D81.00	RETHERMALIZER	
E10.00	WALK-IN COOLER/FREEZER	
E30.84	CHICKEN CRATE	
H10.00	DUAL LINE PRODUCTION COUNTER	
K10.00	ICE MAKER, CUBE-STYLE	
K11.00	ICE MAKER, CUBE-STYLE	
K15.00	ICE BIN	
K20.00	WATER FILTER SYSTEM	
K40.00	GREASE TANK	
K41.00	CO TANK	
K42.00	BAG N BOX	
K71.00	TEA BREWER	
N10.00	HAND SINK	
N20.00	MOP SINK	

THIS SCHEDULE IS A PARTIAL LISTING OF THE EQUIPMENT SUPPLIED BY THE FOOD SERVICE EQUIPMENT CONTRACTOR (FSEC). REFER TO FSEC DRAWINGS FOR A COMPLETE LISTING OF EQUIPMENT, TYPES, SIZES, AND LOCATIONS. 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	RPZ	WATTS 009QTS	1013
CARBONATOR	DCV-1	WATTS SD-3	1022
SODA DISPENSERS	DCV-2	WATTS SD-2	1032
OTHER EQUIPMENT	DCV-3	WATTS SERIES 7	1024

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

GREASE INTERCEPTOR SIZING

FIXTURE	QTY.	FLOW RATE (2 MIN)	TOTAL	FLOW RATE (1 MIN)	TOTAL
FLOOR DRAIN	4	0.00	0.00	0.00	0.00
FLOOR SINK	3	0.50	1.50	1.00	3.00
MOP BASIN	1	9.35	9.35	18.70	18.70
THREE COMP SINK	1	30.00	30.00	60.00	60.00

TOTAL FIXTURE FLOW RATE (2 MIN) 40.85 CALCULATED FLOW RATE (GPM)

TOTAL FIXTURE FLOW RATE (1 MIN) 79.70 42.00

PIPE SIZE FLOW RATE (4 IN) 75 42.00

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

NUMBER OF SEATS	AVG. MEALS PER SEAT PER DAY	FAST FOOD - FULL PREP (HIGH / NO FLATWARE: 0.035 LBS PER SERVING)	DAYS BETWEEN PUMP OUTS	GREASE PRODUCTION (LBS. OF FOG)
22	4	0.035	90	116.0

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

HOT WATER DEMAND CALCULATIONS

FIXTURE	QTY	LENGTH (IN)	WIDTH (IN)	DEPTH (IN)	VOLUME (IN ³)	GPH (@37.5%)
3-COMPARTMENT SINK	1	20	15	14	12600	20.45
		MNF. RATE (GPM)	WATER USAGE (GPH)	STD. RATE (GPM)	GPH	COMBINED GPH
PRE-RINSE SPRAYER	2	1.15	32	2.5	14.72	29.44
LAVATORY	1	0.5	5	2.2	1.14	1.14
HAND SINK	3	2.2	5	2.2	5.0	15.0
PREP SINK	1	2.2	5	2.2	5.0	5.0
MOP SINK	1	---	---	---	15.0	15.0
DISHWASHER	1	---	---	---	29.6	29.6
					TOTAL GPH	115.63

***HOT WATER USE REDUCTION CALCULATIONS: GPH = (MNF. RATE x WATER USAGE VALUE) / STD. RATE**

TOTAL GPH	TEMP RISE (°F)	BTU/(LB · °F)	LB/GAL	ELEC EFFICIENCY	BTU/KW-H	MINIMUM KW
115.63	70	1.002	8.33	98%	3412	20.2

ISSUE TABLE

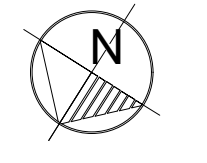
No.	Date (mm/dd/yyyy)	Description

REVISIONS

No.	Date	Description

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

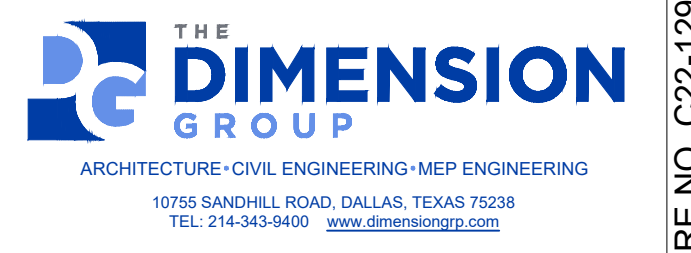

PROJECT NORTH

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6.13.2023

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Project


LOUISIANA KITCHEN


POPEYES

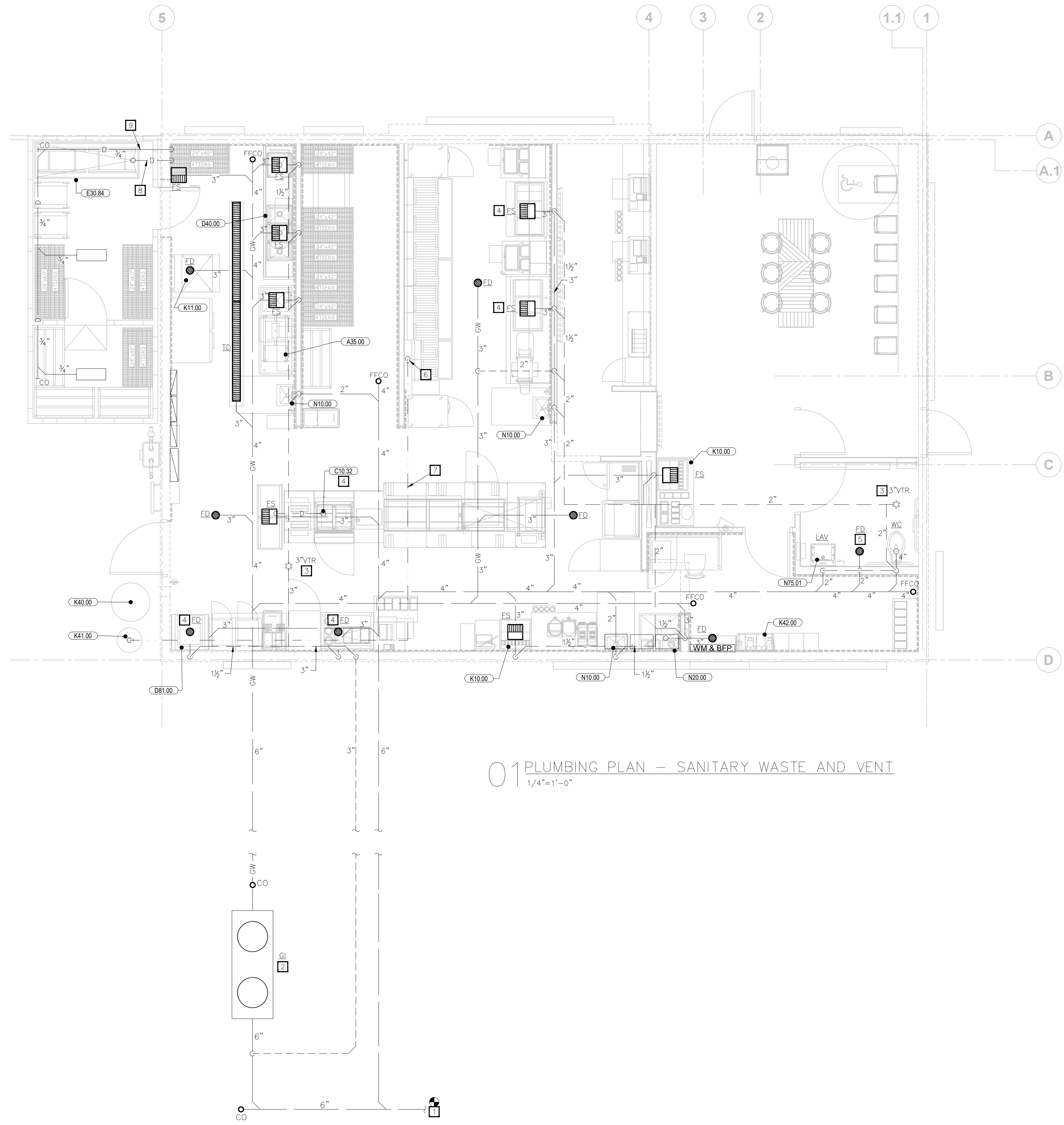
Store Type
US 2124 PROTOTYPE 2112-21

Location
1517 NC 24-87 CAMERON, NC

Drawing Title
PLUMBING SCHEDULES & NOTES

Drawn NI	Checked AH
Scale 1/4" = 1'-0"	Date JUNE 2023
Project No. C22-129	Drawing No. P.1.1

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129



01 PLUMBING PLAN - SANITARY WASTE AND VENT
1/4" = 1'-0"

- ### PLUMBING KEY NOTES
- CONNECT TO SANITARY WASTE LINE ON EXTERIOR OF BUILDING PROVIDED BY OTHERS. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
 - PROVIDE GREASE INTERCEPTOR AS SHOWN PER PLANS. REFER TO "GREASE INTERCEPTOR" DETAIL. LOCATE INTERCEPTOR OUTSIDE OF DRIVE LANES. COORDINATE WITH CIVIL DRAWINGS FOR FINAL LOCATION.
 - 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.
 - EMERGENCY DRAIN IN RESTROOM SHALL BE INSTALLED FLUSH TO GRADE WITH NO SLOPE. COORDINATE INSTALLATION HEIGHT WITH GENERAL CONTRACTOR TO ENSURE PROPER INSTALLATION.
 - 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.
 - PROVIDE HC HEAT TRACE TAPE ON USED COOKING OIL LINE FROM BUILDING TO TANK. INSTALL HEAT TRACE PER MANUFACTURER'S RECOMMENDATIONS. REFER TO PLUMBING FIXTURE SCHEDULE FOR MORE INFORMATION.
 - EXTEND CHICKEN VAT'S 2" COPPER INDIRECT WASTE LINE THROUGH COOLER WALL TO DISCHARGE INTO FLOOR SINK.
 - ROUTE FREEZER/COOLER CONDENSATE DRAIN TO FLOOR SINK PER "WALK-IN COOLER/FREEZER DRAIN" DETAIL.

DFU CALCULATIONS

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 PER IPC		DFU TOTAL	56.0

ISSUE TABLE

No.	Date (mm/dd/yyyy)	Description

REVISIONS

No.	Date	Description

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description



PROJECT NORTH

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Project

POPEYES

Store Type
US 2124 PROTOTYPE
2112-21

Location
**1517 NC 24-87
CAMERON, NC**

Drawing Title
**PLUMBING PLAN -
SANITARY WASTE AND
VENT**

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

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129

PLUMBING SPECIFICATION

GENERAL PROVISIONS

- A. 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 TO INSPECTION.
B. HOOK-UP CHARGES, PERMITS AND ALL OTHER EXPENSES RELATED TO A COMPLETE AND FUNCTIONING PLUMBING SYSTEM ARE INCLUDED AS A PART OF THIS SECTION.
C. 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.
D. COORDINATE WITH WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS AND WITH THE CONSTRAINTS OF EXISTING CONDITIONS OF THE PROJECT SITE.
E. ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED, IS TO PROVIDE POWER WIRING FOR EACH ITEM OF ELECTRICAL EQUIPMENT AND MAKE FINAL CONNECTIONS TO MOTORS.
F. 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:
1. STATE PLUMBING CODE.
2. LOCAL BUILDING CODE.
3. NATIONAL FIRE PROTECTION ASSOCIATION.
4. CERTAIN CODES AND STANDARDS AS SET UP BY VARIOUS TECHNICAL SOCIETIES SUCH AS ASME, ASHRAE, ASTM, SMACNA, ARI, AABC, OR IIEE.
5. FEDERAL OCCUPATIONAL SAFETY AND HEALTH STANDARDS.
6. LOCAL INSPECTOR'S REQUIREMENTS.
7. STATE INDUSTRIAL COMMISSION REQUIREMENTS.
8. BUILDING INSURING AGENCY REQUIREMENTS.
F. 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.
G. 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 AND OTHER EXPENSES IN CONNECTION THEREWITH.
H. 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.
I. 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.
J. THIS CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PER DOCUMENTS PROVIDED BY THE OWNER/ARCHITECT/CONTRACTOR.
1. EXPANSION TANK
2. DRAINS AND CLEANOUTS
3. VALVES
4. ALL PLUMBING FIXTURES, FAUCETS AND FITTINGS
5. WATER HEATER
6. PIPE INSULATION
7. GREASE INTERCEPTOR
K. CATALOG DATA FOR EQUIPMENT REVIEWED BY THE ARCHITECT SHALL NOT SUPERSEDE THE ENGINEER'S CONTRACT DOCUMENTS. REVIEW OF 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.
L. WHEN SUBMITTED FOR ARCHITECT'S REVIEW, SHOP DRAWINGS SHALL BEAR THE CONTRACTOR'S CERTIFICATION THAT:
1. 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.
2. 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.
N. 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 DONE.
O. 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.
P. 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.
Q. COMPLETE 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.
2. INDEX.
3. LIST 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 BINDER EDGE OF BINDER TO ARCHITECT FOR APPROVAL. AFTER ARCHITECT'S REVIEW AND ANY CORRECTIONS REQUIRED ARE COMPLETED, SUBMIT A COPY OF MANUAL, TO OWNER.

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 OPENINGS.
3. TOOL EXPOSED SURFACES OF APPLIED SEALANT TO SMOOTH FINISH.
4. PROTECT MATERIALS FROM DAMAGE ON SURFACES SUBJECTED TO TRAFFIC.
E. PROVIDE INTUMESCENT SEALANTS AND COLLARS AT OPENINGS INVOLVING PLASTIC OR INSULATED PIPE SIMILAR TO METACALK SERIES 880 AND 950.
F. FIRESTOPPING BY DOW CORNING, 3M, HILTI OR METACALK 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 SYSTEMS.
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.
C. 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.
D. 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 A13.
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, LAQUER, 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 ENCRICLE 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:
1. SANITARY WASTE AND VENT (ABOVE GRADE ONLY)
2. 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.
G. 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:

INSULATION

- 5. SHOW FLOW DIRECTION ARROWS AT EACH IDENTIFICATION POINT.
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).
B. 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 1, 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 75F MEAN TEMPERATURE WITH A MINIMUM R-VALUE OF R4.
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.
E. 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.
G. INSTALL ALL INSULATION ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
H. INSULATION SHALL NOT BE APPLIED OVER FLANGES, JOINTS AND SEAMS IN PIPING.
I. 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.
B. PROVIDE ALL FITTINGS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE THE PLUMBING SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND EQUIPMENT INDICATED.
C. 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.
D. 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.
G. 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.
H. ALL PIPES TO BE INSTALLED SHALL BE LOCATED AT SUFFICIENT DISTANCE FROM WALLS, OTHER PIPES, CONDUIT, DUCTWORK AND OTHER OBSTACLES TO AVOID INTERFERENCE AND TO PERMIT THE APPLICATION OF FULL THICKNESS OF INSULATION SPECIFIED.
I. MECHANICAL JOINT TYPE PIPING SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. THERMOMETERS BY TRERICE, ASHCROFT, MARSHALSTOWN, AND WEISS ARE ACCEPTABLE.
J. 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.
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 AND THE VALVES.

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 PEX-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 FREEZERS AT 5 WATTS/LINEAR FOOT (MINIMUM).
D. STORM AND OVERFLOW PIPING SHALL BE PROVIDED AS FOLLOWS:
1. PROVIDE ALL STORM DRAINS AND PIPING WITHIN THE PROJECT 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 WITH SOLVENT WELD FITTINGS, OR SERVICE-WEIGHT HUB AND 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, OR INDICATED ON DRAWINGS.

PLUMBING SYSTEM TESTING

- 1. ALL SYSTEMS SHALL BE TESTED PRIOR TO BEING CONCEALED BY ADDITIONAL WORK, FLOOR SLABS, WALLS, OR MECHANICAL SYSTEMS.
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.
C. 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.
D. 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 A13.
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, LAQUER, 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 ENCRICLE 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:
1. SANITARY WASTE AND VENT (ABOVE GRADE ONLY)
2. 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.
G. 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:

PLUMBING SYSTEMS

- 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 ON-SITE.
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.
B. FUEL FIRED INSTANTANEOUS GAS HEATERS
1. PROVIDE HIGH EFFICIENCY GAS FIRED, INSTANTANEOUS WATER HEATERS. SIZE, LOCATION AND CAPACITY SHALL BE AS INDICATED ON THE DRAWINGS.

WATER HEATER

- A. ELECTRIC WATER HEATERS:
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 R-VALUE OF 10.
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 GAS HEATERS
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 R-VALUE OF 10.
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4. PROVIDE POTABLE WATER EXPANSION TANK AS SPECIFIED. EQUAL PRODUCTS BY WATTS, AMTROL, OR BELL & GOSSETT MAY BE PROVIDED AT THE CONTRACTOR'S OPTION.

PLUMBING PIPING SPECIALTIES - USED COOKING OIL

- A. ASTM A-53 SCHEDULE 40 STEEL PIPE THREADED AND SCREWED OR WELDED WITH STANDARD WEIGHT BLACK MALLEABLE FITTINGS.
B. PROVIDE UNION AT ALL EQUIPMENT CONNECTIONS.
C. PROVIDE PIPE SUPPORTS AND STANDOFF HANGERS IN ACCORDANCE WITH CODE REQUIREMENTS.
D. EXTERIOR UOD 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. PROVIDE A PIPE ESCUTCHEON AT WALL.
WATER HEATER
A. ELECTRIC WATER HEATERS:
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 R-VALUE OF 10.
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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 GAS HEATERS
1. PROVIDE HIGH EFFICIENCY GAS FIRED, INSTANTANEOUS WATER HEATERS. SIZE, LOCATION AND CAPACITY SHALL BE AS INDICATED ON THE DRAWINGS.

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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 GAS HEATERS
1. PROVIDE HIGH EFFICIENCY GAS FIRED, INSTANTANEOUS WATER HEATERS. SIZE, LOCATION AND CAPACITY SHALL BE 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.
3. PROVIDE POTABLE WATER EXPANSION TANK AS SPECIFIED. EQUAL PRODUCTS BY WATTS, AMTROL, OR BELL & GOSSETT MAY BE PROVIDED AT THE CONTRACTOR'S OPTION.
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 PIPE OPENINGS TO EXCLUDE DIRT UNTIL FIXTURES ARE INSTALLED AND FINAL CONNECTIONS HAVE BEEN MADE. PROCEED AS RAPIDLY AS CONSTRUCTION WILL PERMIT. SET FIXTURES LEVEL AND IN PROPER ALIGNMENT. INSTALL SUPPLIES IN PROPER ALIGNMENT WITH FIXTURES. INSTALL SILICONE SEALANT BETWEEN FIXTURES AND ADJACENT MATERIAL, FOR SANITARY JOINT, AND OMIT ESCUTCHEONS
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:
125 LB. S.W.P. GATE, GLOBE AND CHECK VALVES:
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 AND SEAT, 1/4 TURN SHUT-OFF, VINYL COVERED HANDLES.
4. GLOBE (2-1/2" AND SMALLER) - ALL BRONZE, SCREWED, TAPERED, SOLID WEDGE DISC, SCREWED BONNET, RISING STEM.
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, WALKORTH, NORTHERN INDIANA BRASS COMPANY OR STOCKHAM MAY BE FURNISHED AT CONTRACTOR'S OPTION.
G. UNIONS TO BE AS FOLLOWS:
1. UNIONS FOR COPPER PIPE TO BE 150LB., ALL BRONZE, SOLDER 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 INSULATED TO PREVENT METAL-TO-METAL CONTACT AND SHALL BE MANUFACTURED BY CAPITAL MANUFACTURING COMPANY OF COLUMBUS, OHIO. EQUAL PRODUCTS BY PATROL OR PECO SALES COMPANY.
E. CLEANOUTS TO BE AS FOLLOWS:
1. FLOOR TYPE TO BE ADJUSTABLE CAST IRON WITH NICKEL BRONZE TOP. TOP TO BE FLUSH WITH FLOOR. SEE DRAWINGS FOR MODEL AND MANUFACTURER.
2. WALL TYPE TO BE CAST IRON TEE WITH ROUND POLISHED STAINLESS STEEL ACCESS COVER AND THREADED PLUG. SEE DRAWINGS FOR MODEL AND MANUFACTURER.
F. FLOOR DRAINS TO BE AS FOLLOWS:
1. CAST IRON BODY SHALLOW SLUMP 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.

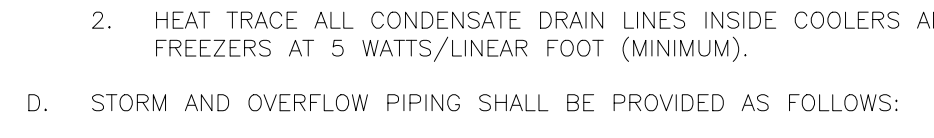
REVISIONS

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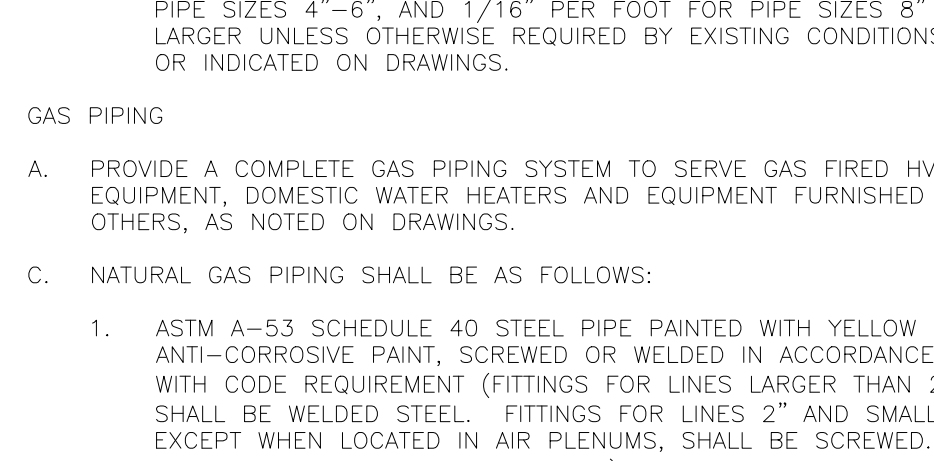
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PROJECT NORTH



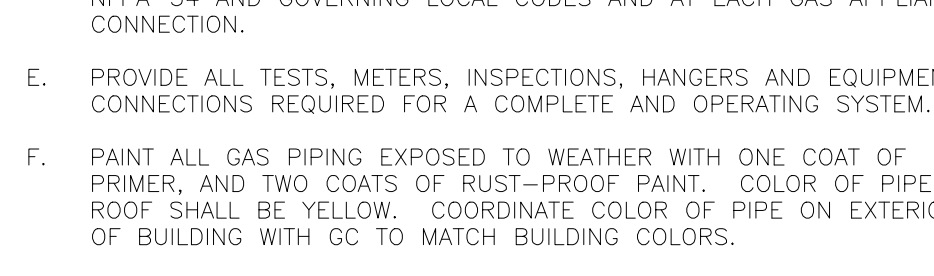
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COMPANY LOGO



6.13.2023

PROJECT



STORE TYPE

US 2124 PROTOTYPE 2112-21

LOCATION

1517 NC 24-87 CAMERON, NC

DRAWING TITLE

PLUMBING SPECIFICATIONS

DRAWN

NI AH

SCALE

Date JUNE 2023

PROJECT NO.

C22-129 Drawing No. PS1.1

ISSUE TABLE

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REVISIONS

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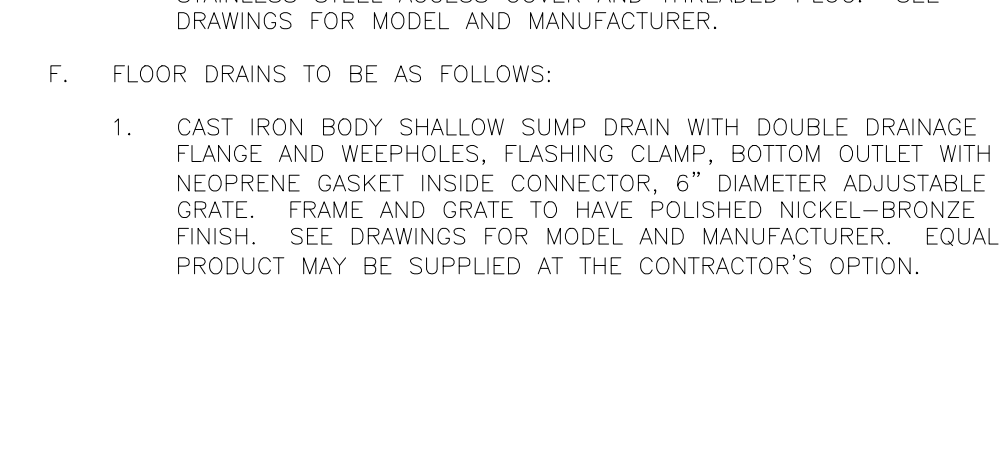
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COMPANY LOGO



6.13.2023

PROJECT



STORE TYPE

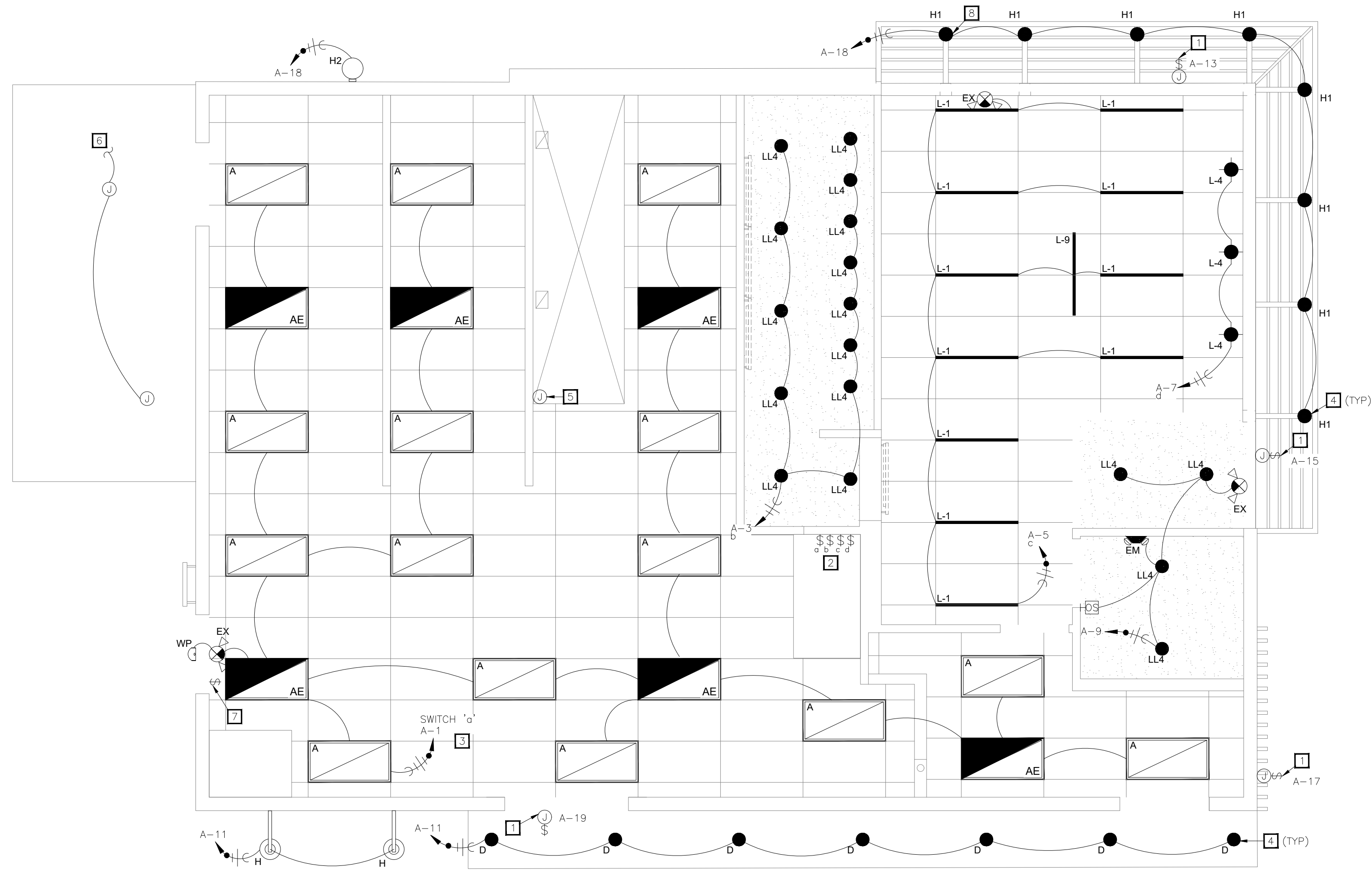
US 2124 PROTOTYPE 2112-21

LOCATION

1517 NC 24-87 CAMERON, NC

DRAWING TITLE

PLUMBING SPECIFICATIONS</



01 LIGHTING PLAN
1/4" = 1'-0"

- ### ELECTRICAL KEYNOTES
- 1 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.
 - 3 RECIRCULATION PUMP WILL BE POWERED FROM KITCHEN LIGHTING CIRCUIT.
 - 4 VERIFY ELECTRICAL CONNECTION REQUIREMENTS FOR CANOPY LIGHTING WITH CANOPY SUPPLIER AND EXTERIOR LIGHTING SPECIFICATIONS.
 - 5 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.

ISSUE TABLE

No.	Date (mm/dd/yyyy)	Description

REVISIONS

No.	Date	Description

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description



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6.13.2023

Company Logo

Project

POPEYES

Store Type
US 2124 PROTOTYPE
2112-21

Location
**1517 NC 24-87
CAMERON, NC**

Drawing Title
**ELECTRICAL LIGHTING
PLAN**

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

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER & CATALOG NUMBER	LAMPS & BALLAST	MOUNTING	VOLTS	WATTS	REMARKS
A	2X4 LED TROFFER	BOH LIGHTING: 24-FPL1-LED-4000L-DIM10-MVOLT-35-85	3500K LED	SURFACE	120	52	
AE	2X4 LED TROFFER W/ BATTERY BACKUP	BOH LIGHTING: 24-FPL1-LED-4000L-DIM10-MVOLT-35-85-0-EMG-LED-20W	3500K LED	SURFACE	120	52	
L-1	LED SUSPENDED LIGHT	COMMERCIAL LIGHTING: BAS-SPWDL48-0MK-SFCC-LED-18IW-35K-010V	3500K LED	SURFACE	120	18	
L-4	LED ACCENT LIGHT	NOLA MAKERS: BAS-PPC-10-RAL5018-0B6ST-48LST	3500K LED	PENDANT	120	12	
LL4	6" RECESSED DOWNLIGHT	HERMITAGE: LD6IC-AT-DIMTR-120	3500K LED	RECESSED	120	11.5	
LL4	6" RECESSED DOWNLIGHT	COMMERCIAL LIGHTING: LD6IC-AT-DIMTR-120	3500K LED	RECESSED	120	11.5	ALTERNATE VENDOR
L-9	LED SUSPENDED LIGHT	TBD	TBD	SURFACE	120	TBD	
EX	LED EMERGENCY LIGHT	EXITRONICS: VLED-U-WH-EL90R	N/A	WALL	120	5	
EM	LED EMERGENCY LIGHT	EXITRONICS: LED-90	N/A	WALL	120	5	
WP	WALL PACK W/ PHOTOCELL	WESTGATE: WES-LESW20W50KP	LED EM LIGHT	WALL	120	20	
D	RECESSED DOWNLIGHT	COMMERCIAL LIGHTING: DAL-RGR4-CC-BK	5000K LED	RECESSED	120	14	
H	LED GOOSENECKS	HERMITAGE: 93102318	3000K LED	WALL MOUNT	120	38	
H1	LED OUTDOOR SCENCE	COMMERCIAL LIGHTING: OUTDOOR SCENCE 1	LED	PENDANT	120	100	
P1	LED POLE LIGHT	HUBBELL LIGHTING: RAR2-320L-165-5K7-4W-UNV-ASQ-DBS	5000K LED	POLE MOUNT	UNV	165	

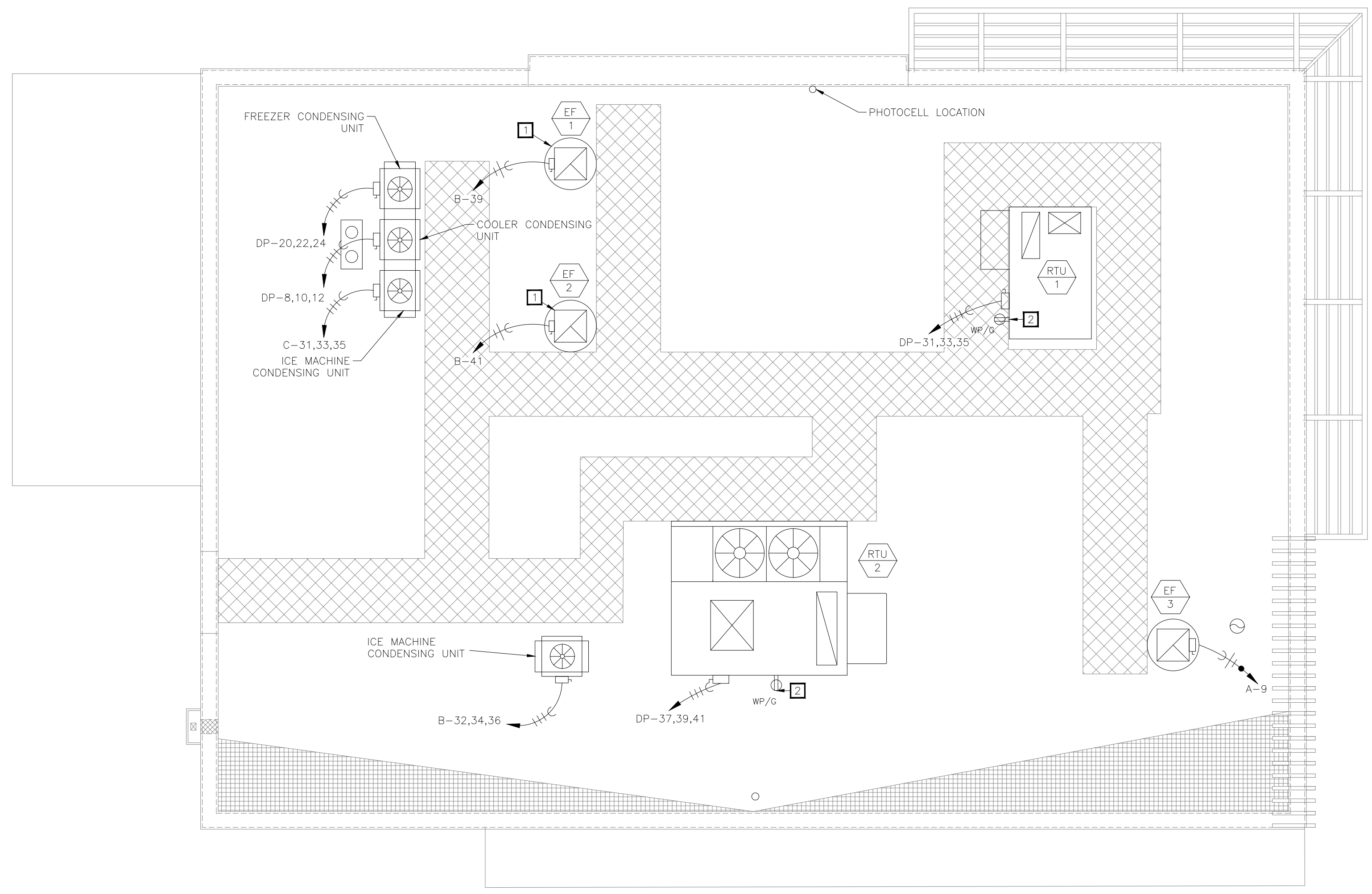
POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129

ELECTRICAL KEYNOTES	
1	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 TABLE		
No.	Date (mm/dd/yyyy)	Description

REVISIONS		
No.	Date	Description

DRAWINGS REVISED AS PER DESIGN BULLETIN		
No.	Date	Description



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



PROJECT NORTH

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6.13.2023

Company Logo

ARCHITECTURE • CIVIL ENGINEERING • MEP ENGINEERING
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Project

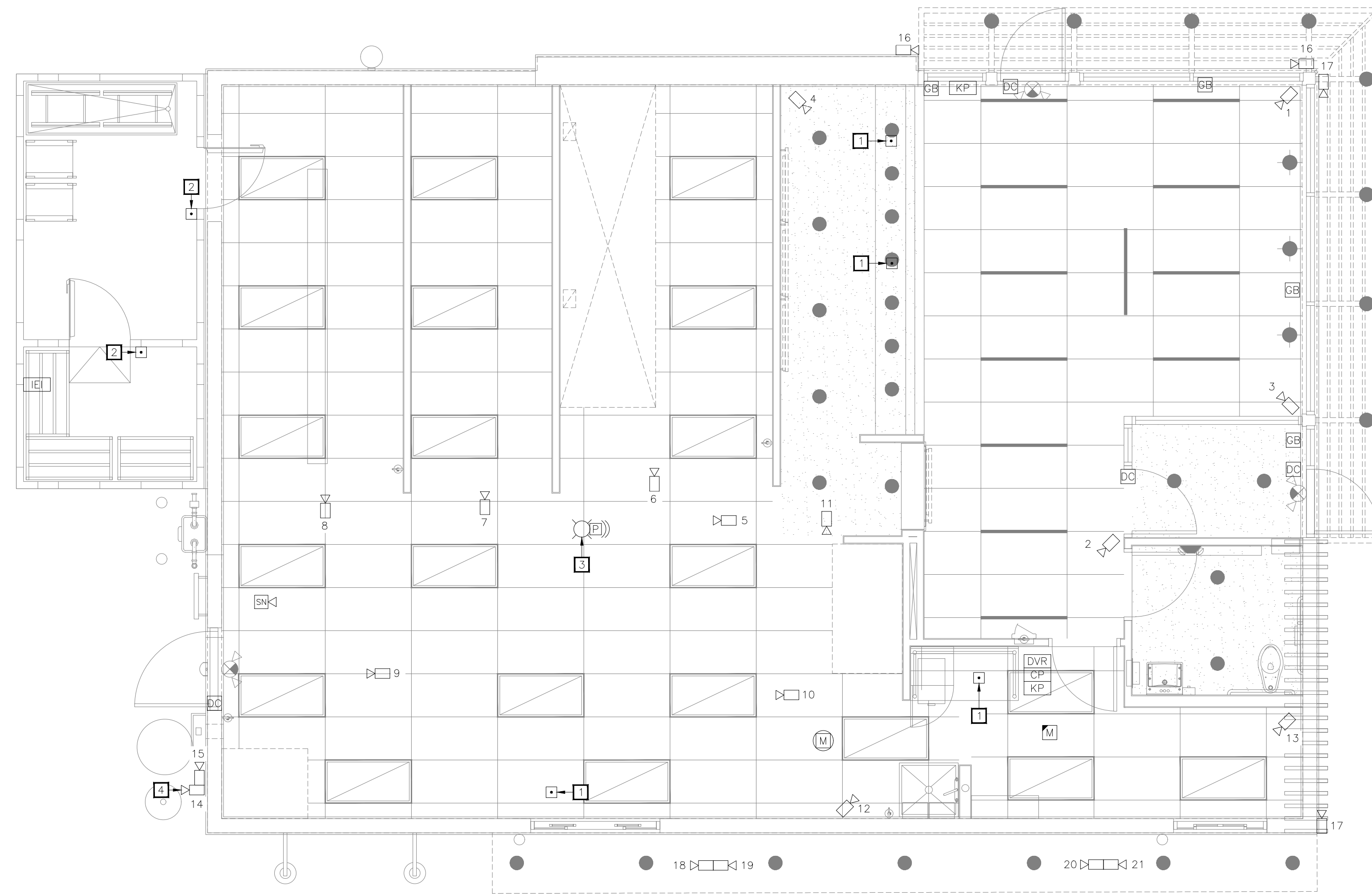
Store Type
US 2124 PROTOTYPE
2112-21

Location
**1517 NC 24-87
CAMERON, NC**

Drawing Title
ELECTRICAL ROOF PLAN

Drawn JP	Checked AH
Scale 1/4" = 1'-0"	Date JUNE 2023
Project No. C22-129	Drawing No. E1.3

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129



01 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-THRU MENU BOARD.

POPEYES MATERIAL LIST

- CAMERAS**
- 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 VARIFOCAAL AUTOIRIS LENS
 - A.D. TC 9340A SERIES OUTDOOR HOUSING
 - A.E. TC9211PM POLE MOUNT ADAPTER
 - A.F. NCG 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 VARIFOCAAL AUTOIRIS LENS
 - B.C. TC 9345MT7 INDOOR TINTED DOME
 - B.D. BNC CONNECTORS FOR PLENUM CABLE
- OFFICE AREA**
- 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. KEYPAD
 - O.A. MOUNT 40" AFF WALL ENTERING KITCHEN AREA FROM LOBBY
 - P. FG 1025 GLASS BREAK
 - P.A. CLASS 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 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. FIBTAL PROVIDED BY NKL SAFE
 - T. RELAYS FOR BACK DOOR/POC/ZONE EXPANSION
 - U. TELCO JACK
 - V. WATTS LINE

REFERENCE ONLY

SECURITY SYMBOL LEGEND

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

SECURITY ACCEPTANCE FORM NOTE

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

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

REVISIONS

No.	Date	Description

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description



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6.13.2023

Company Logo

Project

POPEYES

Store Type

US 2124 PROTOTYPE
2112-21

Location

1517 NC 24-87
CAMERON, NC

Drawing Title

ELECTRICAL SECURITY PLAN

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

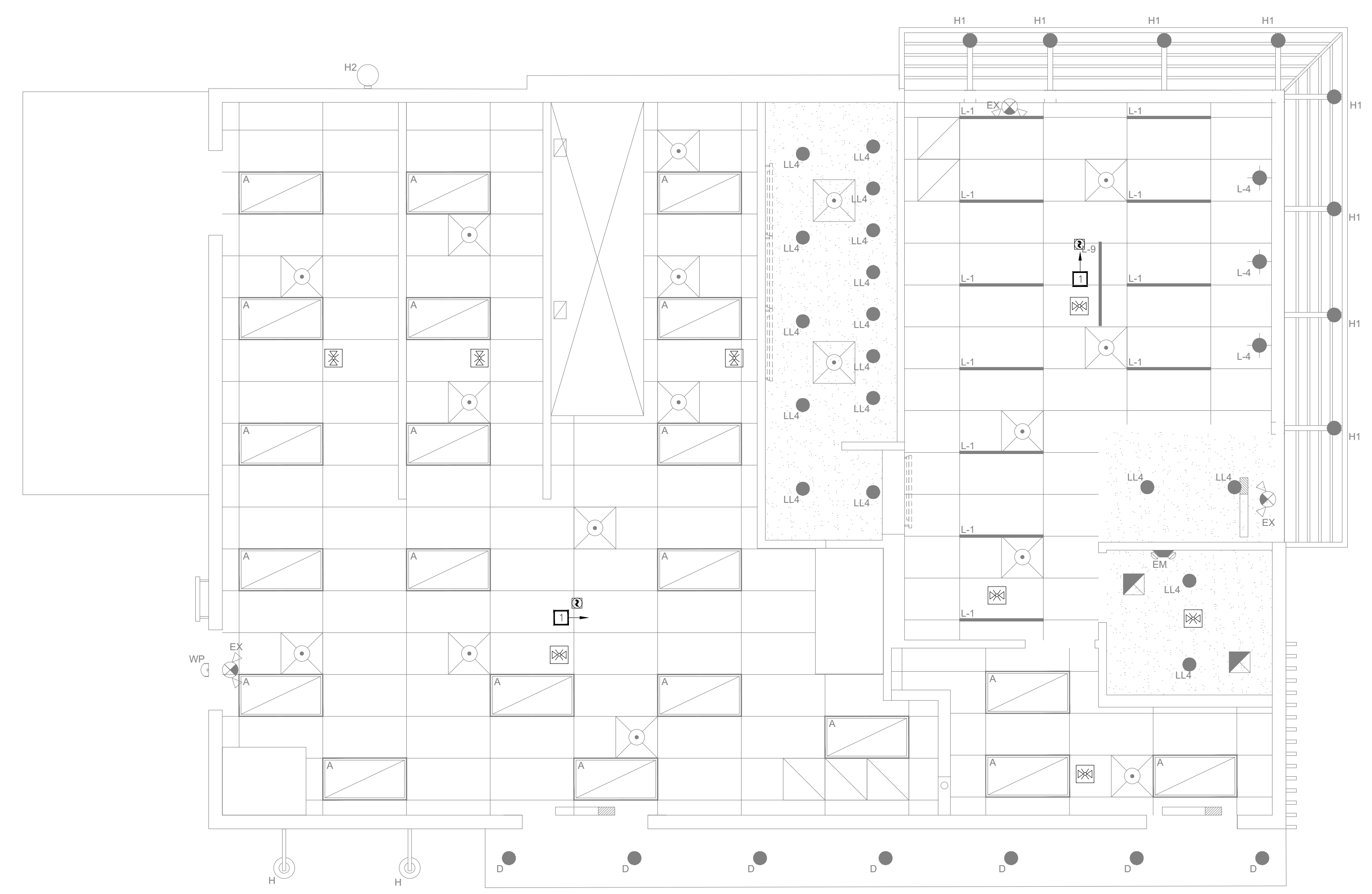
POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129

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

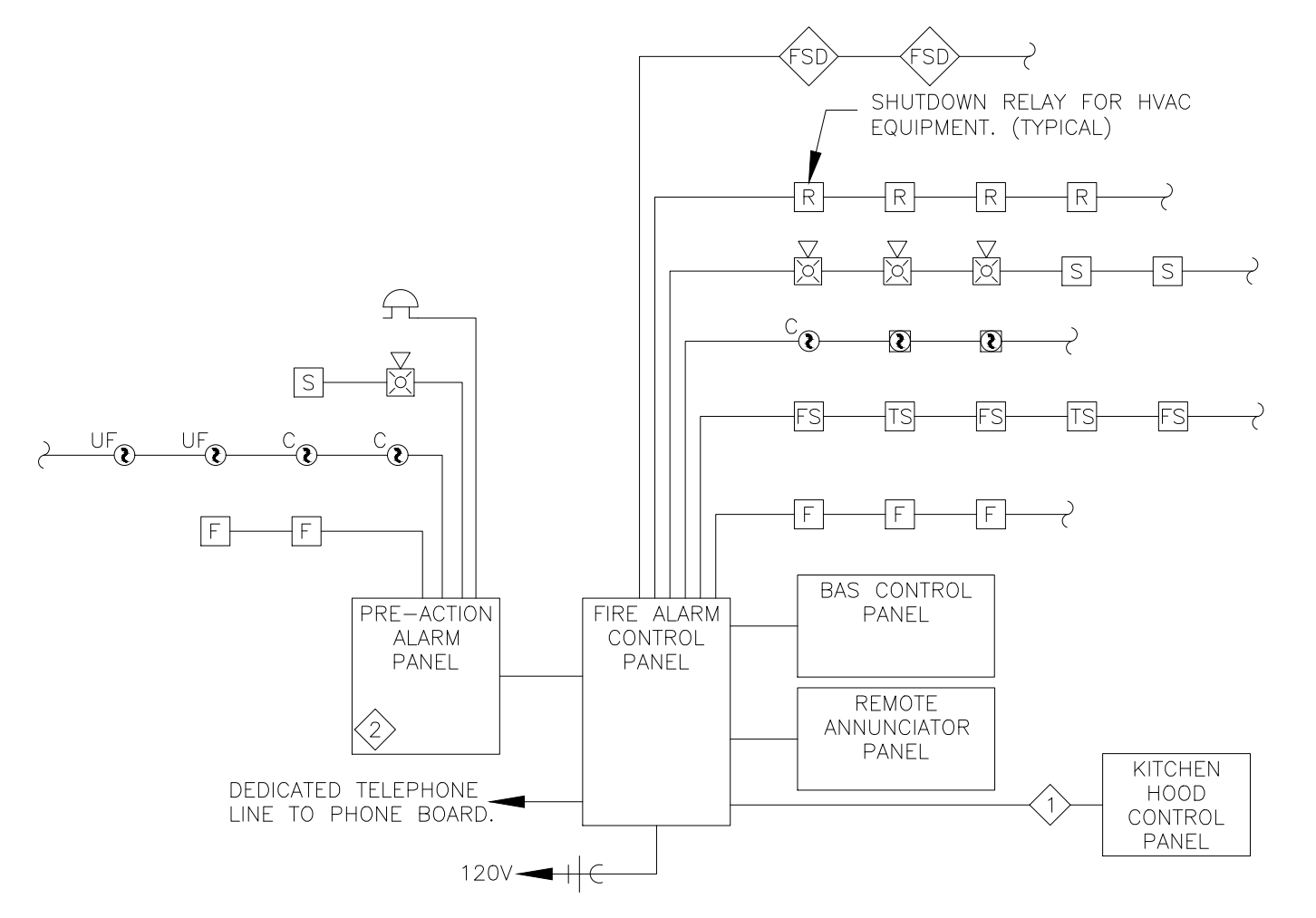
ISSUE TABLE		
No.	Date (mm/dd/yyyy)	Description

REVISIONS		
No.	Date	Description

DRAWINGS REVISED AS PER DESIGN BULLETIN		
No.	Date	Description



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



◆ ELECTRICAL CONTRACTOR SHALL PROVIDE RELAY CONNECTION BETWEEN KITCHEN EXHAUST HOODS AND FIRE ALARM SYSTEM.
 ◆ DATA ROOM SHALL BE MONITORED AND SIGNALLED INDEPENDENTLY.
 FIRE ALARM CONTRACTOR SHALL VERIFY EXACT NUMBER OF CIRCUITS REQUIRED FOR ALL DEVICES, INCLUDING VOLTAGE DROPS AND BATTERY CALCULATIONS.

02 FIRE ALARM RISER DIAGRAM
NOT TO SCALE



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10755 SANDHILL ROAD, DALLAS, TEXAS 75238
TEL: 214-343-9400 www.dimensiongroup.com

Project

Store Type
US 2124 PROTOTYPE
2112-21

Location
1517 NC 24-87
CAMERON, NC

Drawing Title
ELECTRICAL FIRE ALARM PLAN

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

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129

KITCHEN EQUIPMENT SCHEDULE

EQUIPMENT MARK	ITEM DESCRIPTION	VOLTAGE-PHASE	FEEDER				CONNECTION					HEIGHT	REMARKS
			MOCQ	CONDUCTOR & GROUND	PIPE	MATERIAL	TYPE	AMPERAGE	POLES	FUSES	NEMA		
A10.30	MULTIPLE LE FRYER SYSTEM, ELECTRIC	120V-3P	70A	1 SET(6)#6,10G	1"	COPPER	RECEPTACLE	56A	3		5-15	18"	1
A24.U2	MULTIPLE LE FRYER SYSTEM, ELECTRIC	208V-3P	60A	1 SET(4)#10,#8G	3/4"	COPPER	RECEPTACLE	47A	3		5-15	18"	1
A31.00	MARINATOR	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	2		5-15	18"	
A47.10	BATTER CART	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	2		5-15	18"	
A47.20	BATTER CART	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	2		5-15	18"	
A47.30	BATTER CART	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	2		5-15	18"	
A49.00	DRUMROLL	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	2		5-15	18"	
A54.00	REACH-IN-FREEZER	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	2		5-15	78"	
A85.00	REACH-IN-FREEZER	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	2		5-15	78"	
B10.00	CONVECTION OVEN	120/208-3P	40A	1 SET(4)#8,#10G	3/4"	COPPER	HARDWIRE					22"-47"	
B20.00	COUNTERTOP MIXER	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	2		5-15		
B60.00	REACH-IN-REFRIGERATOR	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	2		5-15	78"	
B65.00	BISCUIT HOLDING UNIT	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	2		5-15		
C20.00	TOASTER	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	2		5-15	42"	
C40.00	PRODUCT HOLDING BIN	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	2		5-15		
C41.00	PRODUCT HOLDING BIN	120V-1P	20A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	20A	2		5-20	64"	
D20.00	MICROWAVE OVEN	208V-1P	20A	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	2		5-15		
D20.10	UTENSIL HOLDER	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	2				
D29.80	HOT WELLS	208V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	HARDWIRE						PROVIDE FOR (2) HOT WELLS
D50.00	ELECTRIC BOOSTER HEATER	208V-3P	30A	1 SET(3)#10,#10G	1/2"	COPPER	HARDWIRE						
D70.00	HOT WATER DISPENSER	208V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	HARDWIRE					48"	
D81.00	RETHERMALIZER, WATER TANK, ELECTRIC	208V-1P	60A	1 SET(2)#6,#10G	3/4"	COPPER	HARDWIRE					17"	
D90.00	COOK & HOLD OVEN	208V-1P	30A	1 SET(2)#10,#10G	1/2"	COPPER	RECEPTACLE	30A	2		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
D92.00M	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						
D94.00M	HOT HOLDING CABINET	120V-1P	20A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	20A	2		5-20		
D94.00M	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	2		5-15		SEE SPECS
E10.00	WALK-IN COOLER/FREEZER	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	HARDWIRE						SEE SPECS
E71.00	EVEN-THAW REFRIGERATOR	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	2		5-15	84"	
E71.20	THAWING CABINET	120V-1P	20A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	20A	2		5-20		
F15.10	FAB ELECTRICAL	208V-1P	15A	1 SET(2)#12,#12G	1-1/4"	COPPER	HARDWIRE						SEE SPECS
GR10.00	CONTACT GRILL	120V-1P	20A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	20A	2		5-20		
H10.00	FAB ELECTRICAL	120/208V-3P	20A	1 SET(4)#4,#8G	1/2"	COPPER	HARDWIRE						LOAD CENTER
H90.00	HOLDING CABINET	120V-1P	20A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	20A	2		5-20		
J40.00	UNDERCOUNTER REFRIGERATOR	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	2		5-15	12"	
K10.00	ICE MAKER, CUBE-STYLE	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	2		5-15	68"	
K30.00	DRINK MACHINE	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	HARDWIRE					50"	
K11.00	ICE MAKER, CUBE-STYLE	208V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	HARDWIRE					66"	
K30.00	DRINK MACHINE	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	2		5-15		
K42.00	BAG N BOX	120V-1P	20A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	20A	2		5-15		
K40.00	OIL MAKING SYSTEM	120V-1P	20A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	20A	2		5-20		
K71.00	TEA BREWER	120V-1P	20A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	20A	2		5-20		

NOTES: 1. VERIFY ALL ELECTRICAL CONNECTIONS PRIOR TO ROUGH-IN.

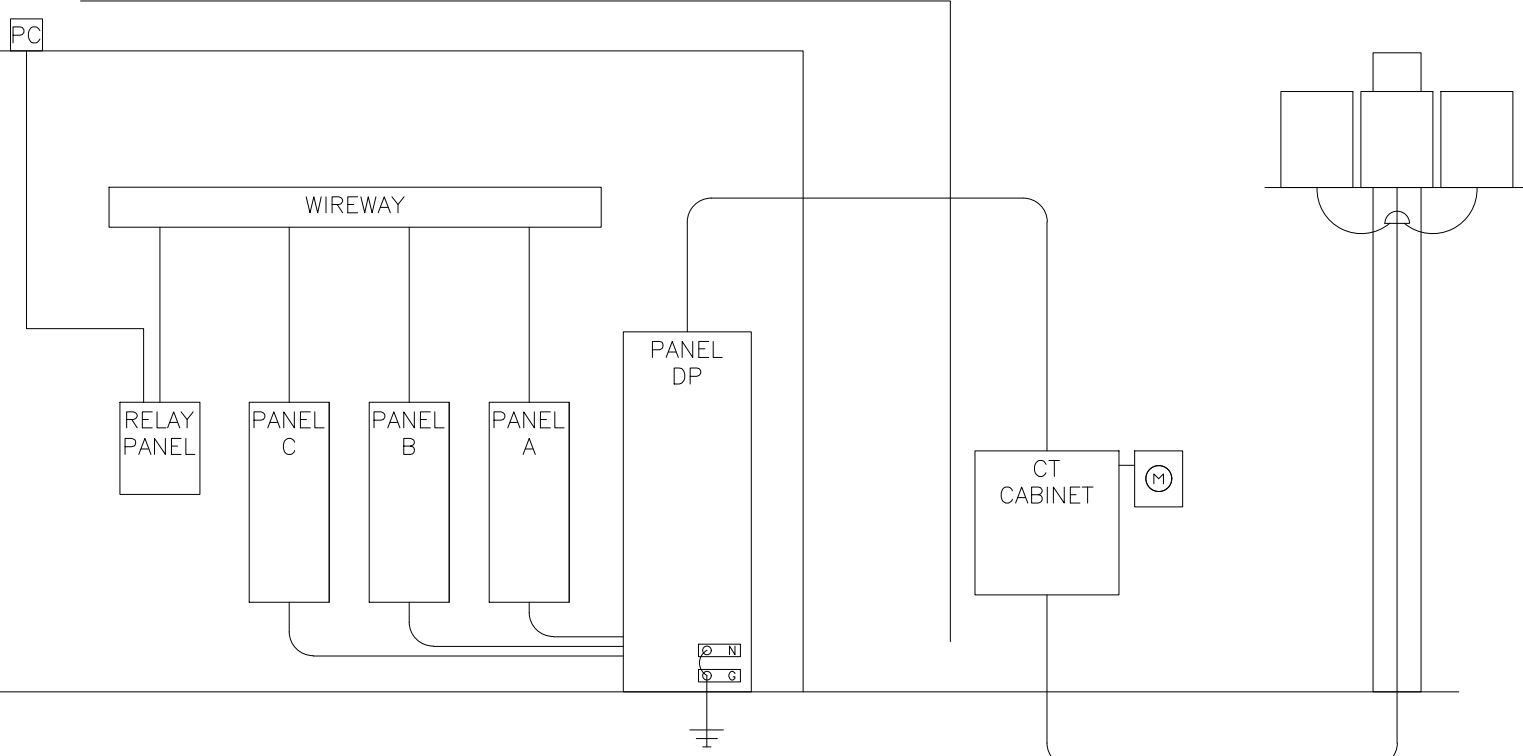
EQUIPMENT FEEDER SCHEDULE

EQUIPMENT MARK	VOLTAGE-PHASE	MOCQ	FEEDER				CONNECTION					REMARKS
			CONDUCTOR & GROUND	PIPE	MATERIAL	TYPE	AMPERAGE	POLES	FUSE	NEMA		
RTU-1	208V-3P	150A	1 SET(3)#6, #10G	3/4"	COPPER	INTEGRAL DISCONNECT		NF				
RTU-2	208V-3P	175A	1 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	2	NF	3R	1	
EF-2	120V-1P	20A	1 SET(2)#12,#12G	1/2"	COPPER	PROVIDE DISCONNECT	20A	2	NF	3R		
EF-3	120V-1P	20A	1 SET(2)#12,#12G	1/2"	COPPER	PROVIDE DISCONNECT	20A	2	NF	3R		
ICE CONDENSER	208V-1P	20A	1 SET(3)#12,#12G	3/4"	COPPER	PROVIDE DISCONNECT	20A	2		3R		
ICE CONDENSER	208V-1P	20A	1 SET(2)#12,#12G	3/4"	COPPER	PROVIDE DISCONNECT	20A	2		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		

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

FEEDER SCHEDULE

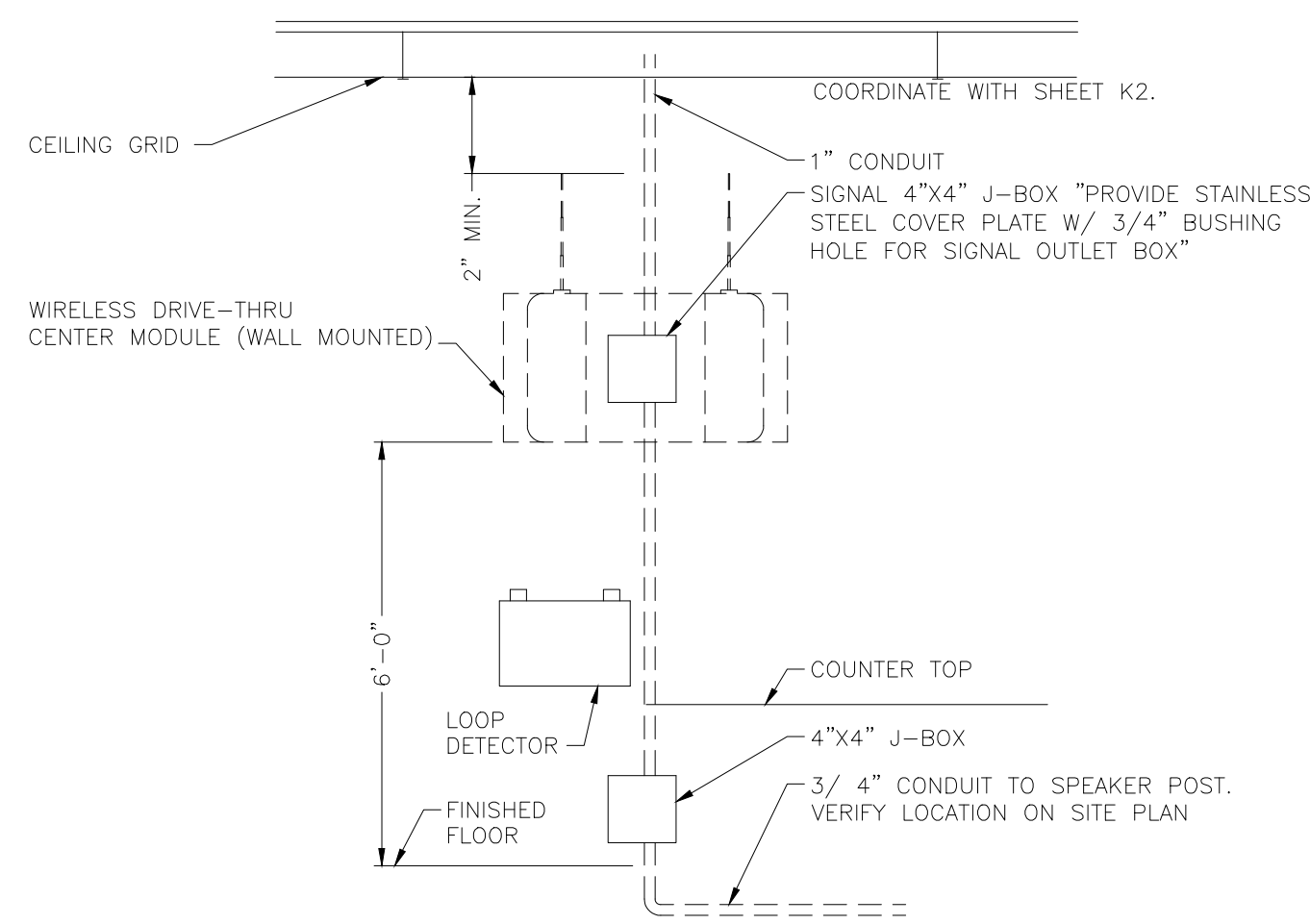
EQUIPMENT MARK	VOLTAGE-PHASE	MOCQ	FEEDER				FAULT CURRENT	VOLTAGE DROP
			CONDUCTOR & GROUND	PIPE	MATERIAL	REMARKS		
UTILITY	225KVA 120/208V-3P INFINITE					55762		
DP	120/208V-3P	600A	2 SETS(4)#350	4"	COPPER	27589		
A	120/208V-3P	225A	4 #4/0 & #14G	2-1/2"	COPPER	23942	0.10%	
B	120/208V-3P	225A	4 #4/0 & #14G	2-1/2"	COPPER	23942	0.10%	
C	120/208V-3P	225A	4 #4/0 & #14G	2-1/2"	COPPER	23942	0.10%	



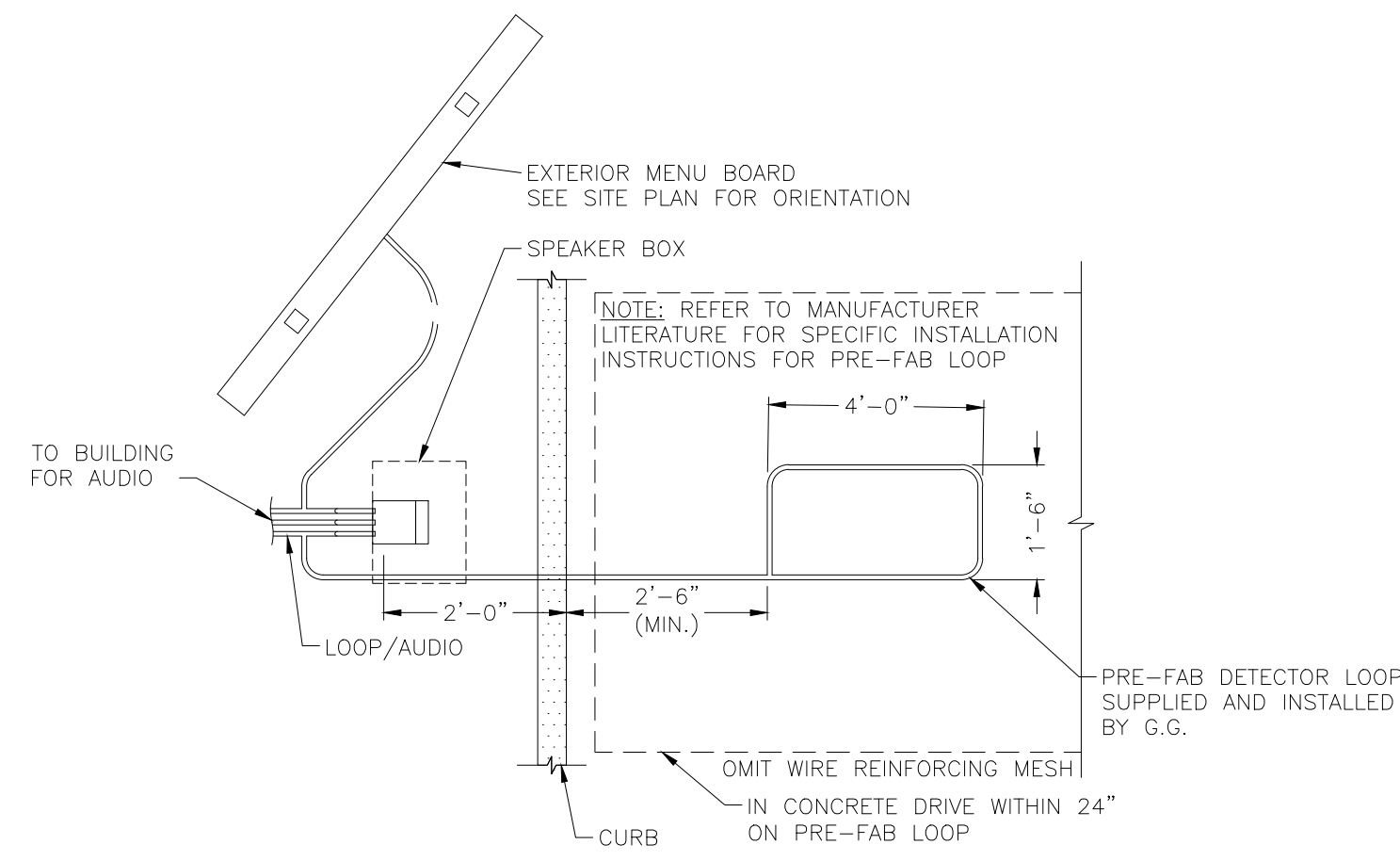
01 ELECTRICAL RISER DIAGRAM
NO SCALE

PANELBOARD:		DP	MAIN SIZE:		600	A	VOLTS:	120/208								
PANEL TYPE:		I-LINE	MAIN TYPE:	MCO	PHASE/WIRE:	3/4	PHASE/WIRE:	3/4								
LOCATION:		B.O.H.	BUS TYPE:	COPPER	MOUNTING:	RECESSED	MOUNTING:	35,000 AC								
LOAD	CRK	DESIGNATION	WIRE SIZE	LOAD VA	PL	AMPS	PHASE	PHASE	PHASE	AMPS	PL	LOAD VA	WIRE SIZE	DESIGNATION	CRK	LOAD CLS
K	1	B10.00 - CONVECTION OVEN	3 #6,1#10G,3/4"	1664	3	40	2284			20	3	620	#12,1#12,3/4"	WALK IN COOLER	2	O
K	3	SPARE		1664	1	20				20	3	620	#12,1#12,3/4"	WALK IN COOLER	4	O
K	5	SPARE		1664	1	20				20	3	620	#12,1#12,3/4"	WALK IN COOLER	6	O
K	7	B10.00 - CONVECTION OVEN	3 #6,1#10G,3/4"	1664	3	40	1824			20	3	160	#12,1#12,3/4"	COOLER CONDENSER	8	O
K	9	SPARE		1664	1	20				20	3	160	#12,1#12,3/4"	COOLER CONDENSER	10	O
K	11	B81.00 - RETHERMALIZER	3 #6,1#10G,1"	4750	3	60	5400			30	3	600	#10,1#10G,3/4"	WALK IN FREEZER	12	O
K	13	SPARE		4750	1	20				30	3	600	#10,1#10G,3/4"	WALK IN FREEZER	14	O
K	15	SPARE		4750	1	20				30	3	600	#10,1#10G,3/4"	WALK IN FREEZER	16	O
K	17	SPARE		4750	1	20				30	3	600	#10,1#10G,3/4"	WALK IN FREEZER	18	O
K	19	SPARE		4750	1	20				30	3	600	#10,1#10G,3/4"	WALK IN FREEZER	20	O
K	21	SPARE		4750	1	20				30	3	600	#10,1#10G,3/4"	WALK IN FREEZER	22	O
K	23	SPARE		4750	1	20				30	3	600	#10,1#10G,3/4"	WALK IN FREEZER	24	O
K	25	SPARE		4750	1	20				30	3	600	#10,1#10G,3/4"	WALK IN FREEZER	26	O
K	27	SPARE		4750	1	20				30	3	600	#10,1#10G,3/4"	WALK IN FREEZER	28	O
K	29	SPARE		4750	1	20				30	3	600	#10,1#10G,3/4"	WALK IN FREEZER	30	O
K	31	SPARE		4750	1	20				30	3	600	#10,1#10G,3/4"	WALK IN FREEZER	32	O
K	33	SPARE		4750	1	20				30	3	600	#10,1#10G,3/4"	WALK IN FREEZER	34	O
K	35	SPARE		4750	1	20				30	3	600	#10,1#10G,3/4"	WALK IN FREEZER	36	O
K	37	SPARE		4750	1	20				30	3	600	#10,1#10G,3/4"	WALK IN FREEZER	38	O
K	39	SPARE		4750	1	20				30	3	600	#10,1#10G,3/4"	WALK IN FREEZER	40	O
K	41	SPARE		4750	1	20				30	3	600	#10,1#10G,3/4"	WALK IN FREEZER	42	O

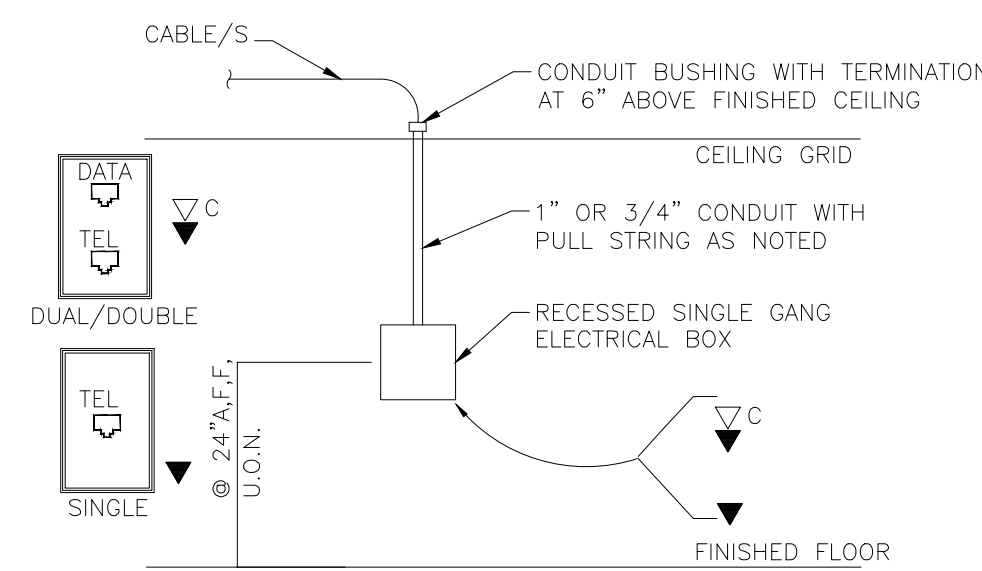
PANELBOARD:		DP	MAIN SIZE:		600	A	VOLTS:	120/208
PANEL TYPE:		I-LINE	MAIN TYPE:	MCO	PHASE/WIRE:	3/4	PHASE/WIRE:	3/4
LOCATION:		B.O.H.	BUS TYPE:	COPPER	MOUNTING:	RECESSED	MOUNTING:	35,000 AC
LOAD	CRK	DESIGN						



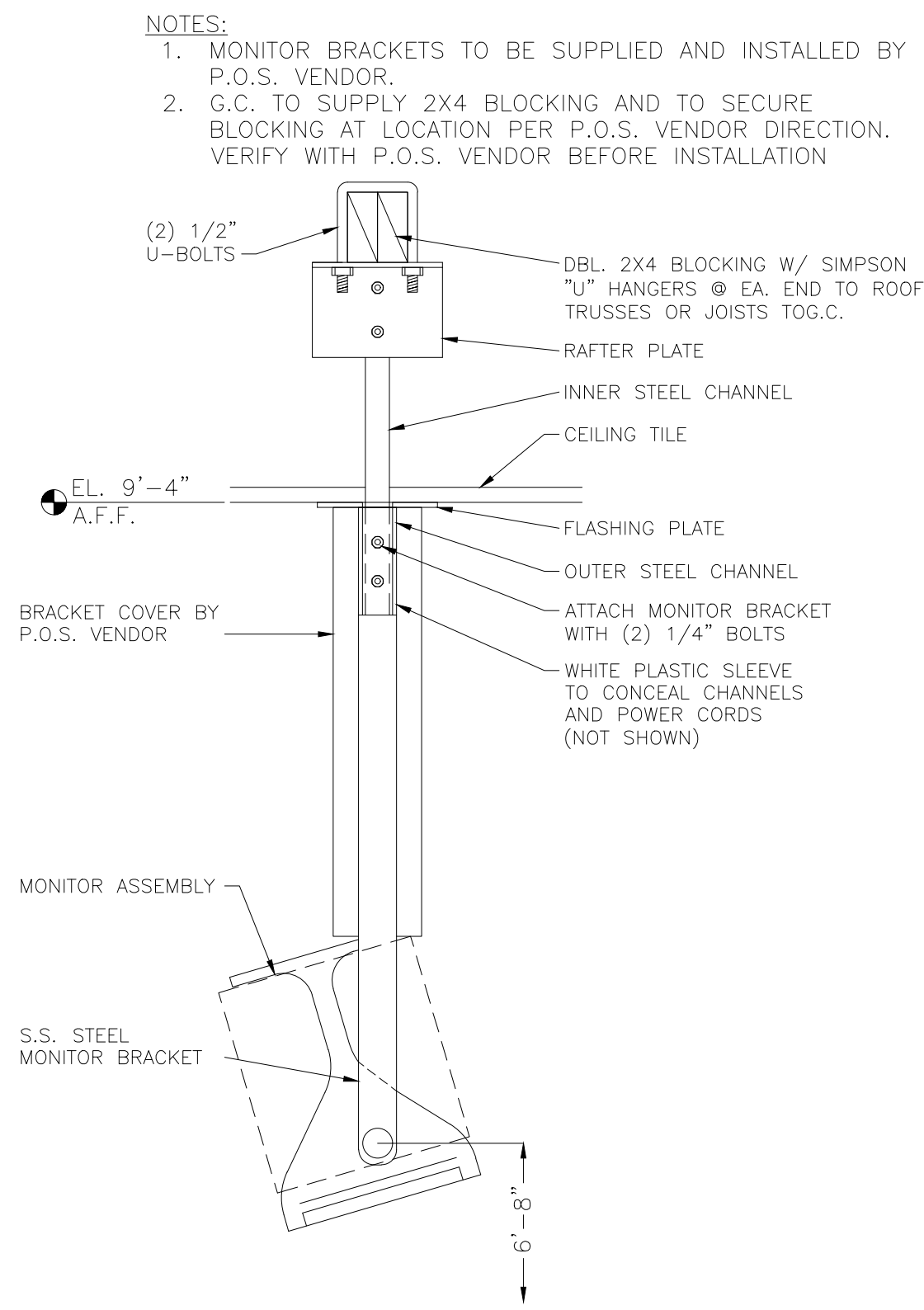
07 DRIVE-THRU AUDIO/TIMERS
NOT TO SCALE



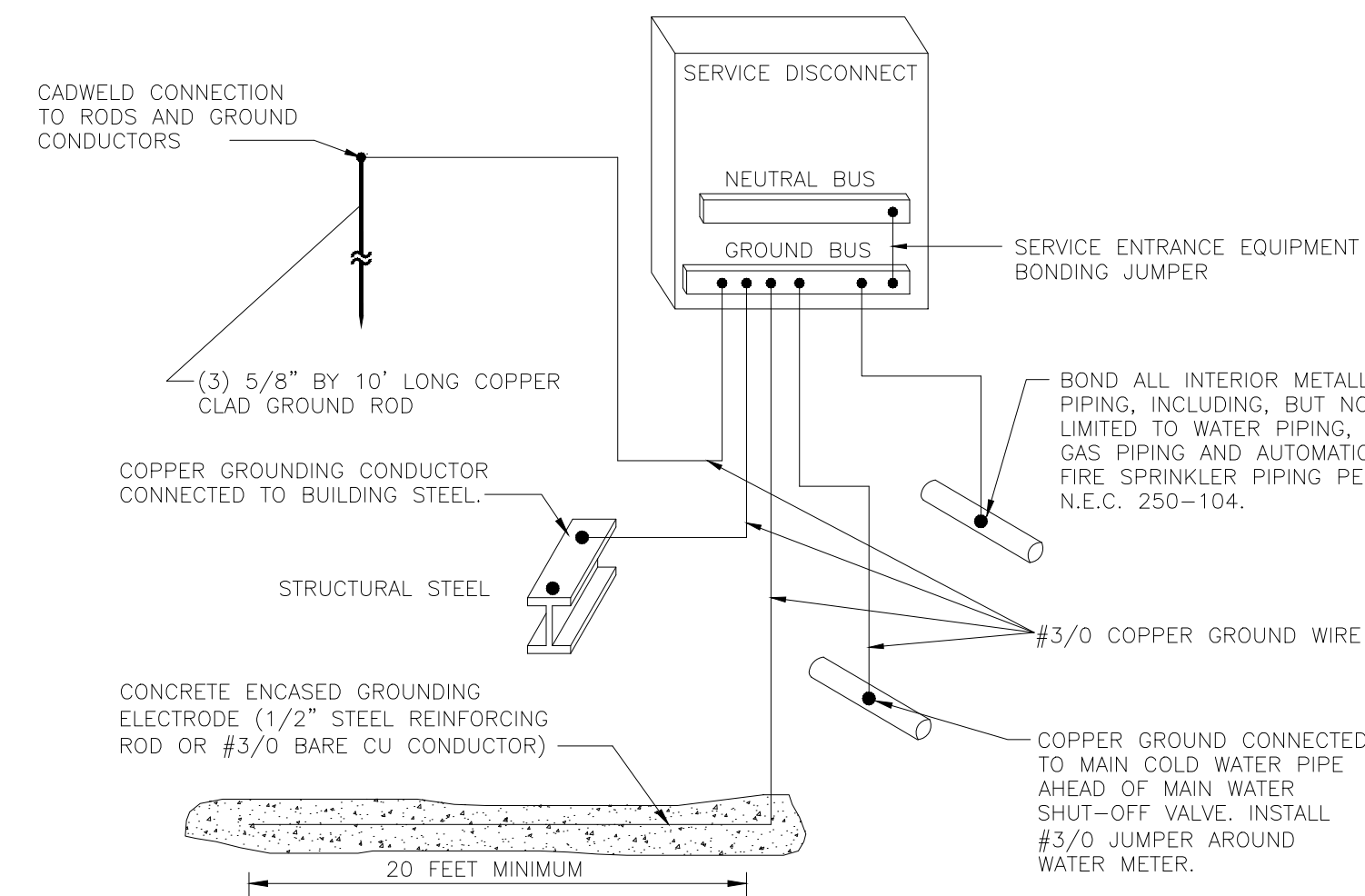
08 DRIVE-THRU LOOP DETECTOR
NOT TO SCALE



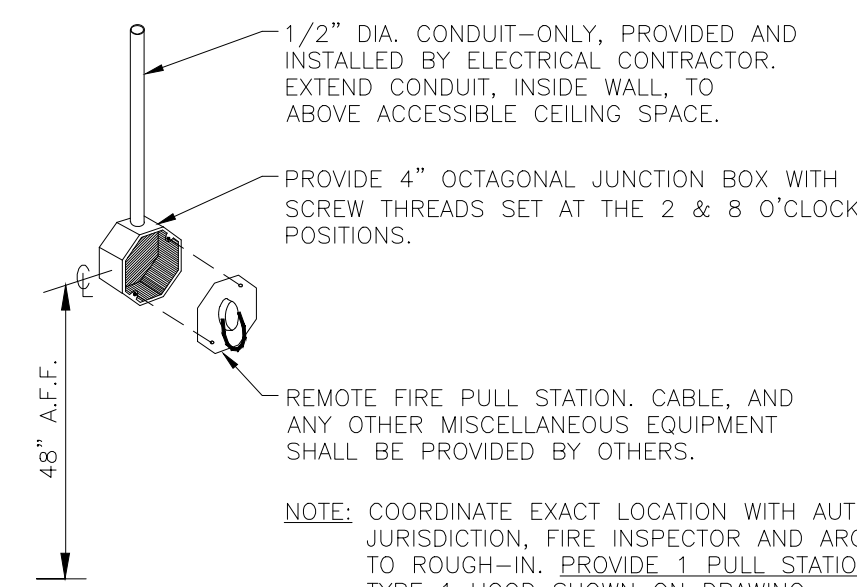
09 TYP COMM. STUB UP
NOT TO SCALE



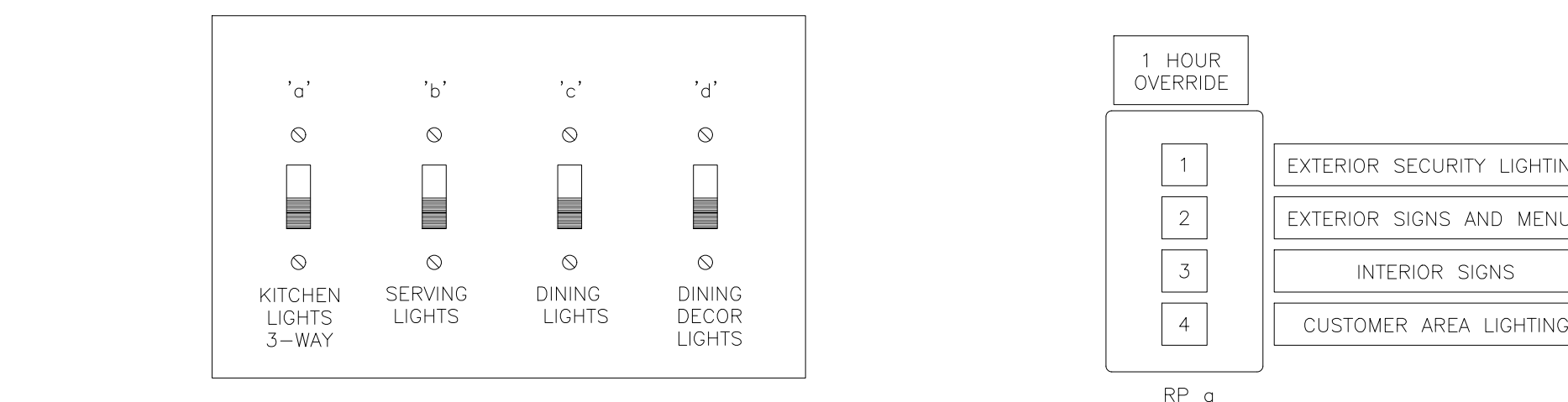
04 MONITOR BRACKET DETAIL
NOT TO SCALE



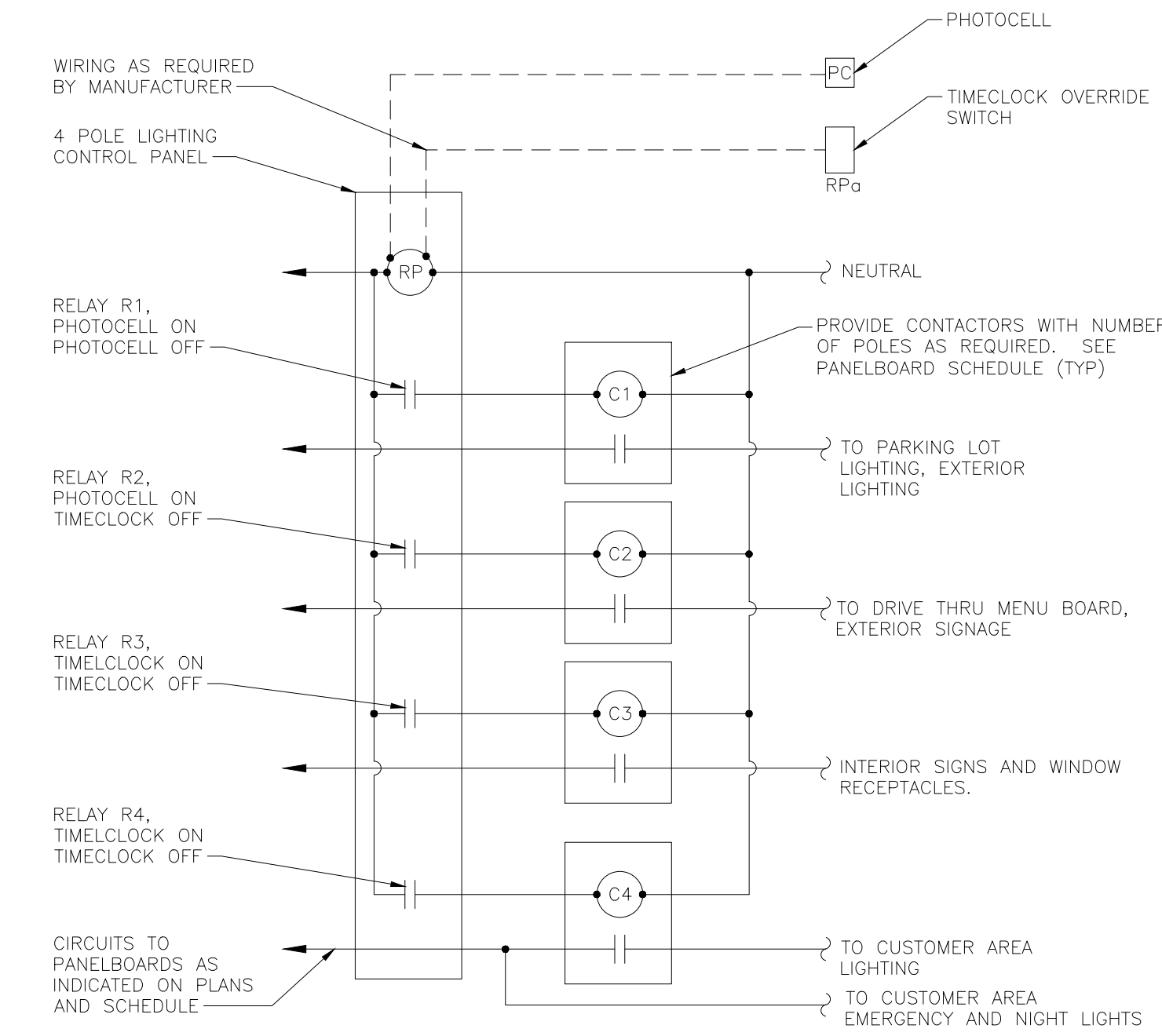
05 SERVICE ENTRANCE GROUNDING
NOT TO SCALE



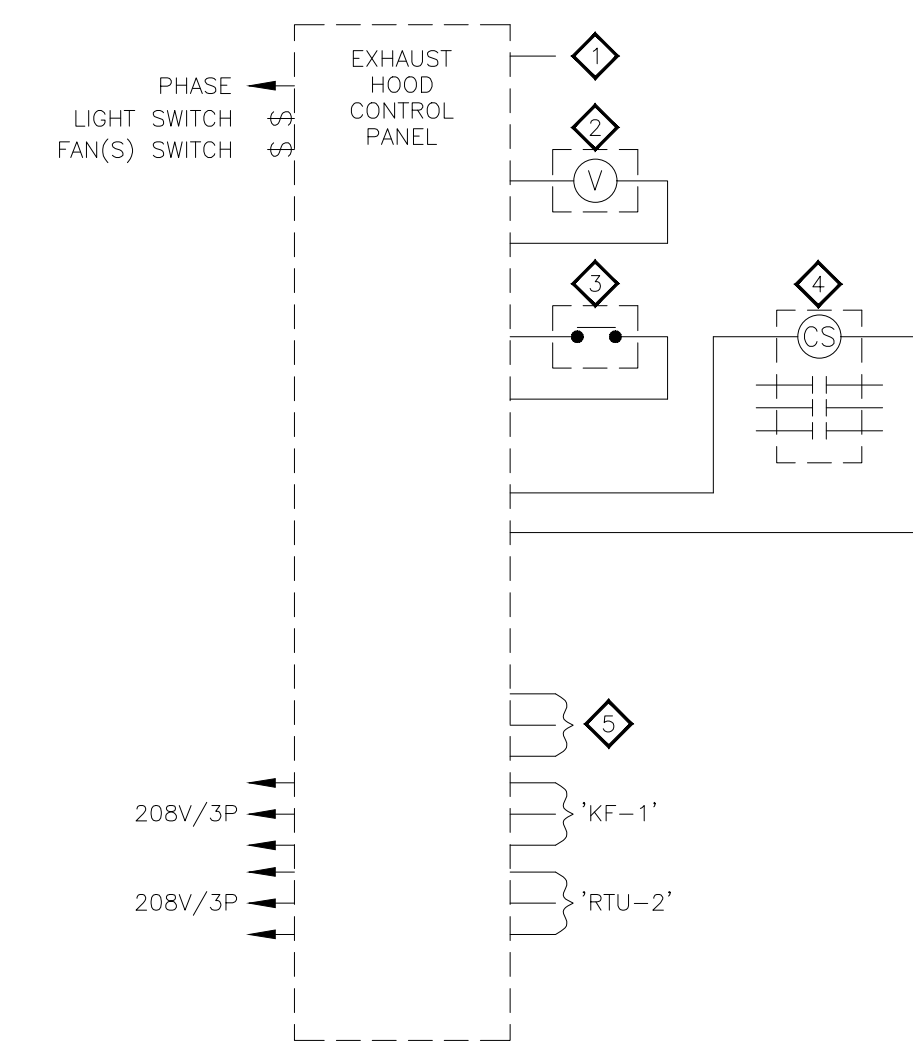
06 REMOTE HOOD FIRE PULL STATION
NOT TO SCALE



03 SWITCH BANK DETAIL
NOT TO SCALE



01 LIGHTING CONTROL DIAGRAM
NOT TO SCALE



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

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

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

REVISIONS		
No.	Date	Description

DRAWINGS REVISED AS PER DESIGN BULLETIN		
No.	Date	Description



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6.13.2023

Company Logo

ARCHITECTURE-CIVIL ENGINEERING-MEP ENGINEERING
10755 SANDHILL ROAD, DALLAS, TEXAS 75238
TEL: 214-343-9400 www.dimensiongroup.com



POPEYES

Store Type
US 2124 PROTOTYPE
2112-21

Location
1517 NC 24-87
CAMERON, NC

Drawing Title
ELECTRICAL DETAILS

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

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129

- ELECTRICAL KEYNOTES**
- 1 PROVIDE (1) 3/4" PVC CONDUIT FOR POWER AND (1) 1/ 2" PVC CONDUIT FOR DATA TO OUTDOOR MENUBOARD.
 - 2 PROVIDE (1) 3/4" PVC CONDUIT FOR POWER AND (1) 1/ 2" PVC CONDUIT FOR DATA TO ORDER PEDESTAL AND DETECTOR LOOP.
 - 3 PROVIDE (1) 3/4" PVC CONDUIT FOR POWER AND (1) 1/ 2" PVC CONDUIT FOR DATA TO PRE ORDER MENUBOARD.
 - 4 PROVIDE POWER TO INDEPENDENT STANDING DRIVE THRU LIGHT POSTS. CONFIRM CONNECTION WITH LIGHT POST MANUFACTURER (ENTERA BRANDING).

ISSUE TABLE

No.	Date (mm/dd/yyyy)	Description

REVISIONS

No.	Date	Description

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description



PROJECT NORTH


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6.13.2023

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Project



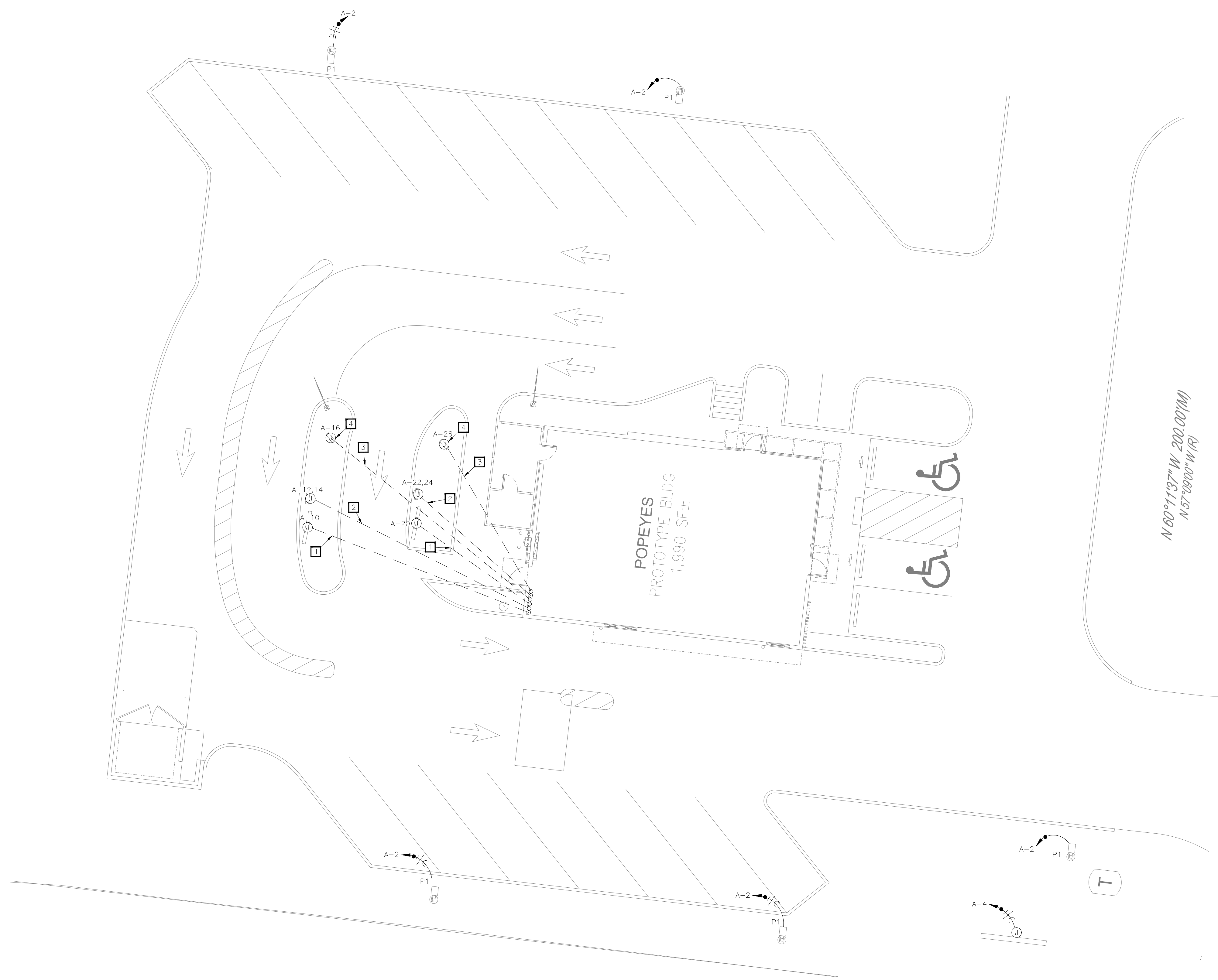
POPEYES

Store Type
US 2124 PROTOTYPE
2112-21

Location
**1517 NC 24-87
CAMERON, NC**

Drawing Title
ELECTRICAL SITE PLAN

Drawn	Checked
JP	AH
Scale	Date
3/32"=1'-0"	JUNE 2023
Project No.	Drawing No.
C22-129	ES1.0



01 ELECTRICAL SITE PLAN
3/32"=1'-0"

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129