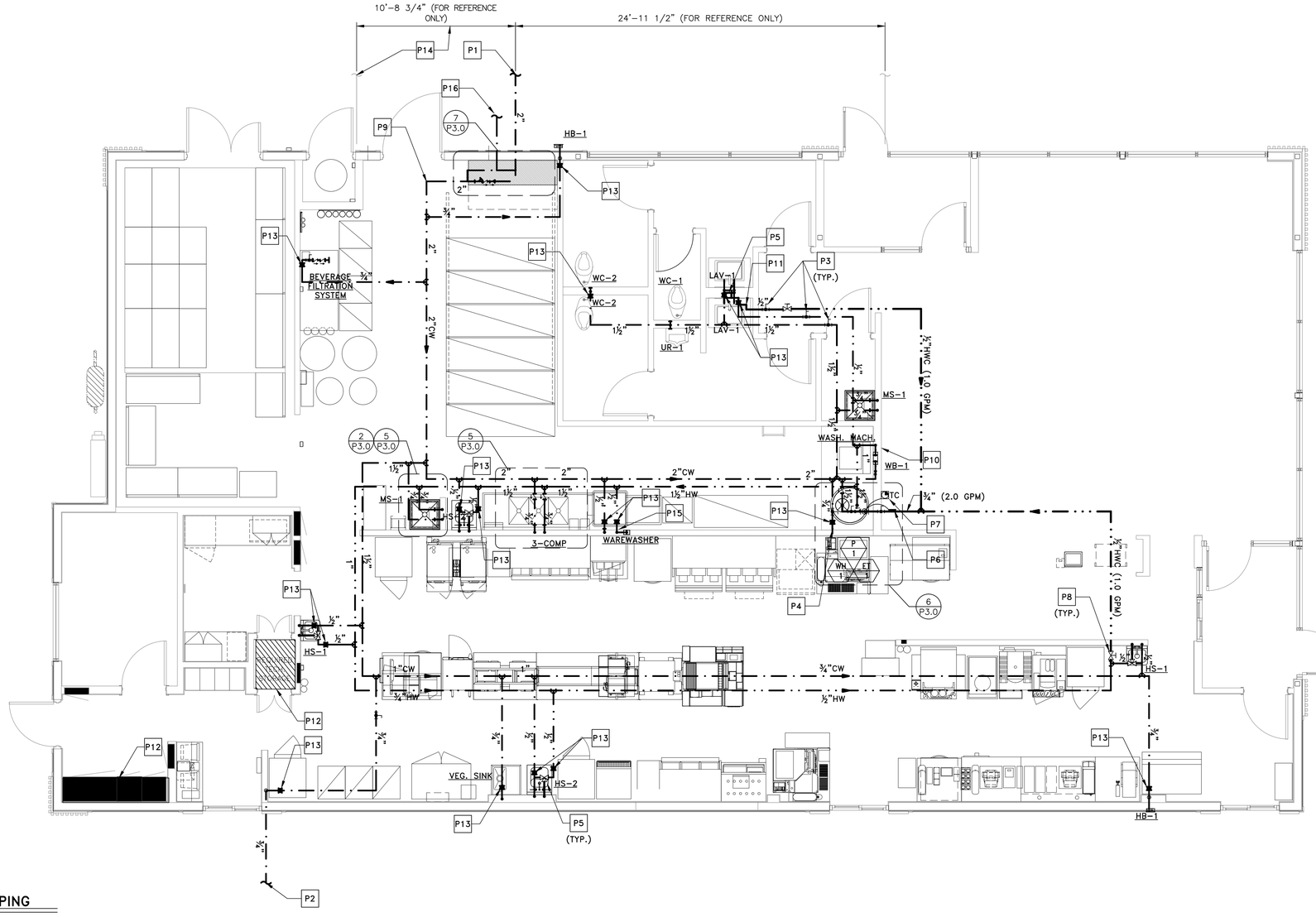


1 P1.0 **DOMESTIC WATER PIPING**

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

DRAWING INDEX

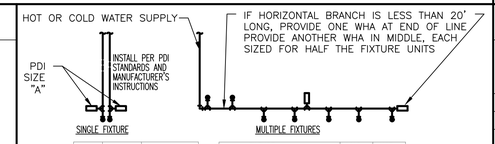
P1.0	DOMESTIC WATER PIPING
P1.2	VENT & STORM PIPING PLAN
P1.3	UNDERGROUND PIPING
P1.4	UNDERGROUND ROUGH-IN
P1.6	OVERHEAD ROUGH-IN
P2.0	DOMESTIC WATER ISOMETRIC
P2.1	WASTE & VENT ISOMETRIC
P2.2	STORM ISOMETRIC
P3.0	DETAILS
P4.0	GENERAL NOTES
P4.1	SCHEDULES

DRAWING NOTES

1. PIPING ROUTES AS SHOWN ARE GENERAL AND MAY VARY DUE TO FIELD CONDITIONS. COORDINATE ALL PIPE ROUTES WITH OTHER TRADES. MAKE SURE HOT WATER MAIN LOOP REMAINS WITHIN 10 FT OF FIXTURE FOR ENERGY CODE PURPOSE.
2. ALL WATER DISTRIBUTION PIPING SHALL BE INSULATED. INSULATION NOT SHOWN FOR CLARITY. SEE PLUMBING NOTES FOR INSULATION REQUIREMENTS, SHEET M4.0, "DOMESTIC SUPPLY SYSTEMS", NOTE 18.

KEYED NOTES

- **P1** INCOMING UNDERGROUND WATER SERVICE (SEE SITE PLAN FOR CONTINUATION). WATER PIPING FROM THIS POINT TO CEILING PENETRATION INSIDE BUILDING SHALL BE COPPER.
- **P2** COLD WATER UNDERGROUND TO YARD HYDRANT (HB-2) IN TRASH CORRAL. SEE SITE PLAN FOR CONTINUATION.
- **P3** SHUT-OFF VALVE FOR RESTROOM ISOLATION. SEE VALVE SCHEDULE. ALL SHUT-OFF VALVES SHALL BE LOCATED OVER SUSPENDED CEILINGS FOR ACCESSIBILITY. DO NOT LOCATE IN AREAS WITH DRYWALL CEILINGS.
- **P4** ¾" COLD WATER UP TO ROOF HYDRANT.
- **P5** FOR MIXING VALVE LOCATIONS AND INSTALLATION DETAILS ON PUBLIC LAVATORIES, SEE DETAIL 3 ON DRAWING P3.0. FOR PRIVATE HAND SINKS OR LAVS, MIXING VALVES FOR INFORMATIONAL PURPOSES.
- **P6** PIPE-MOUNTED AQUASTAT TO SHUT PUMP DOWN WHEN RECIRULATION TEMPERATURE REACHES 140°F. SEE DETAIL 6 ON DRAWING P3.0.
- **P7** TIME CLOCK TO SHUT PUMP AND WATER HEATER DOWN DURING UNOCCUPIED HOURS. SEE ELECTRICAL DRAWINGS FOR WIRING DETAIL.
- **P8** BALANCING VALVE FOR RECIRCULATION SYSTEM. SEE VALVE SCHEDULE. ALL BALANCING VALVES SHALL BE LOCATED OVER SUSPENDED CEILINGS FOR ACCESSIBILITY. DO NOT LOCATE IN AREAS WITH DRYWALL CEILINGS.
- **P9** WATER PIPING AFTER CEILING PENETRATION CAN TRANSITION TO CPVC OR PEX WHERE PERMITTED BY CODE.
- **P10** PROPERLY SEAL ALL PIPE PENETRATIONS THROUGH DRAFT STOP WALL (TYP.)
- **P11** HOT WATER RECIRCULATION SHALL CONNECT WITHIN 6" OF SUPPLY STUB OUT TO FIXTURE.
- **P12** UTILITIES SHALL NOT BE ROUTED ABOVE THE TECH. CLOSET AND THE SWITCHGEAR.
- **P13** INSTALL WATER-HAMMER ARRESTOR WHERE QUICK-CLOSING VALVES ARE UTILIZED. WATER-HAMMER ARRESTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. WATER-HAMMER ARRESTORS SHALL CONFORM TO ASSE 1010.
- **P14** MAINTAIN A MINIMUM OF 10'-0" CLEARANCE FROM THE INCOMING DOMESTIC WATER TO THE GREASE WASTE AND SANITARY LINES.
- **P15** ROUTE CW AND HW DOWN IN WALL TO WALL BOX AND CONNECT COMPLETE. REFER TO PLUMBING FIXTURE SCHEDULE FOR WAREWASHER CONNECTION REQUIREMENTS.
- **P16** COLD WATER UNDERGROUND FOR IRRIGATION.



PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD
A	1/2"	1-11
B	3/4"	12-32

FIXTURE	COLD	HOT
VALVE WATER CLOSET	10	--
TANK WATER CLOSET	5	--
URINAL	5	--
LAVATORY/SINK	1.5	1.5
JANITOR'S SINK	3	3
HOSE BIBB	2	--
SODA FACTORY	10	--
WAREWASHER	4	4

PC TO PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE #1010 AND ANSI #A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE.

DETAIL 2 P1.0

WATER-HAMMER ARRESTER (TYP.)
NOT TO SCALE

FIXTURE COUNT

NO.	FIXTURE DESCRIPTION	SUPPLY CONNECTIONS WSFU	COLD	HOT	TOTAL
1	VEGETABLE PREP SINK	3	¾"	–	3
4	HAND SINK	1	½"	½"	4
4	HOSE BIBB	4	¾"	–	16
1	SODA FACTORY	10	1"	–	10
1	KITCHEN SINK (3-COMP)	3	¾"	¾"	3
2	MOP SINK	3	¾"	¾"	6
2	LAVATORY	1	½"	½"	2
1	URINAL	4	1"	–	4
3	WATER CLOSET	6.5	1 ½"	–	19.5
1	WASHING MACHINE	3	¾"	¾"	3
1	WAREWASHER	4	½"	½"	4
				TOTAL:	74.5

(60 GPM)

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DATE ISSUED: JUN 22, 2026

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PROJECT #: 26-028
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ISSUE DATE 02/25

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LEAVENWORTH, KS 66048

SHEET TITLE
DOMESTIC WATER PIPING

SHEET NUMBER:
P1.0

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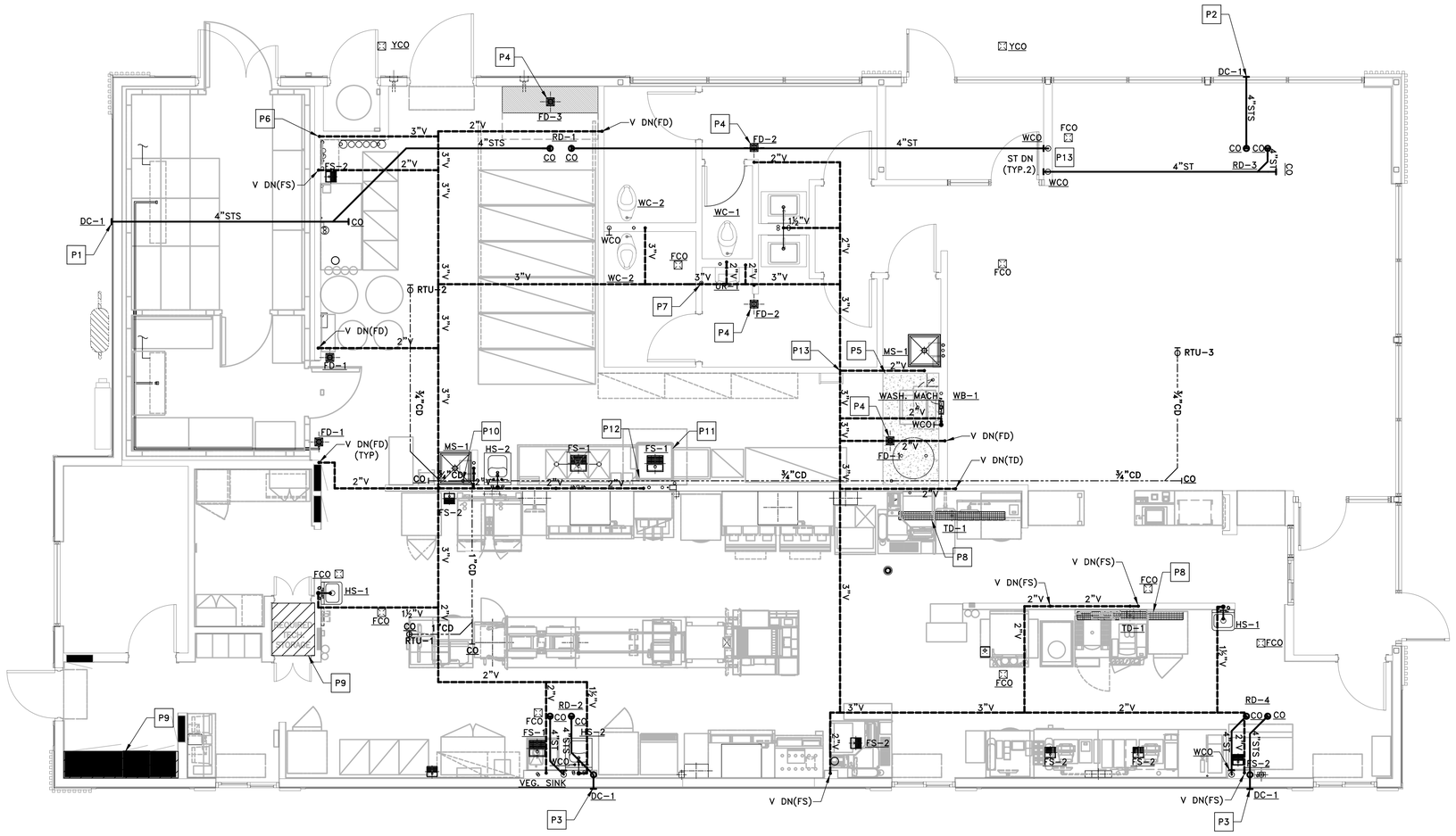

1 P1.2 **VENT & STORM PIPING PLAN**

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

DRAWING NOTES

1. PIPING ROUTES ARE GENERAL AND MAY VARY DUE TO FIELD CONDITIONS. COORDINATE ALL PIPE ROUTES WITH OTHER TRADES.
2. WALL CLEAN-OUTS FOR WASTE PIPING NOT SHOWN FOR CLARITY. SEE GENERAL NOTES FOR REQUIREMENTS.
3. ONLY MAIN FLOOR CLEAN-OUTS ARE SHOWN FOR CLARITY. SEE GENERAL NOTES FOR REQUIREMENTS.
4. ALL HORIZONTAL STORM DRAINAGE PIPING SHALL BE INSULATED TO PREVENT CONDENSATION. INSULATION NOT SHOWN FOR CLARITY. SEE PLUMBING NOTES FOR INSULATION REQUIREMENTS.

KEYED NOTES

- **P1** TERMINATE OVERFLOW DRAIN AS HIGH AS POSSIBLE WITH DOWNSPOUT COVER.
- **P2** TERMINATE OVERFLOW DRAIN ABOVE TRELLIS WITH DOWNSPOUT COVER. BOTTOM OF DOWNSPOUT OUTLET PIPE SHALL BE AT LEAST 3" BUT NOT MORE THAN 8" ABOVE TOP OF TRELLIS.
- **P3** TERMINATE BOTTOM OF OVERFLOW DRAIN A MINIMUM OF 12" ABOVE GRADE WITH DOWNSPOUT COVER.
- **P4** PROVIDE PROSET TRAP GUARD® FOR FLOOR DRAIN.
- **P5** TOP OF CONCRETE SLAB IS 0'-6" A.F.F.
- **P6** VENT FROM GREASE INTERCEPTOR. SEE SITE PLAN FOR CONTINUATION. COORDINATE PIPE ROUTING WITH LOCATION OF GREASE INTERCEPTOR.
- **P7** 4" VENT UP THROUGH ROOF WITH A 4"x5" VENT CAP
- **P8** REFERENCE MANUFACTURER INSTALLATION GUIDE FOR LAYOUT AND SLOPING GUIDELINES PRIOR TO INSTALL AND POURING THE SLAB.
- **P9** UTILITIES SHALL NOT BE ROUTED ABOVE THE TECH. CLOSET AND THE SWITCHGEAR.
- **P10** CONDENSATE LINE FROM RTUs DOWN TO DRAIN AT MOP SINK INDIRECT WITH AIR GAP 2 x DIAMETER, TERMINATE PIPE ABOVE FLOOD RIM. FURNISHED AND INSTALLED BY PC. SEE COORDINATION SCHEDULE ON P4.1 & M4.1.
- **P11** CONTRACTOR SHALL ROUTE ½" OD 304 S/S PIPE (PROVIDED BY OTHERS) FROM TYPE II EXHAUST HOOD TO FLOOR SINK.
- **P12** CONTRACTOR SHALL INSTALL DRAIN PIPE AND AIR GAP KIT (PROVIDED BY OTHERS). CONNECT DRAIN HOSES FROM WAREWASHER TO DRAIN PIPE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. REFER TO DETAIL 9/P3-0 FOR FURTHER DETAILS.
- **P13** WALL CLEAN OUTS TO BE INSTALLED 18" A.F.F. ON VESTIBULE SIDE. OPTIONAL: PAINT TO MATCH WALL FINISH FOR CONCEALMENT.

STORM PIPE SIZING

RAINFALL = 10-YEAR, 24 HOUR STORM EVENT = 4.2 IN./HR

VERTICAL LEADERS

ROOF DRAIN	ROOF AREA SQ. FT.	SIZE IN.
RD-1	1,286	4
RD-2	1,382	4
RD-3	792	3
RD-4	792	3
TOTAL	4,252	

HORIZONTAL PIPING (SLOPE ⅛" PER FOOT)

ROOF DRAIN	ROOF AREA SQ. FT.	SIZE IN.
RD-2 & RD-4	2,174	6
RD-2, RD-3 & RD-4	2,966	6
RD-1, RD-2, RD-3 & RD-4	4,252	6

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ISSUE DATE 02/25

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LEAVENWORTH, KS 66048

SHEET TITLE
VENT & STORM PIPING PLAN

SHEET NUMBER:
P1.2

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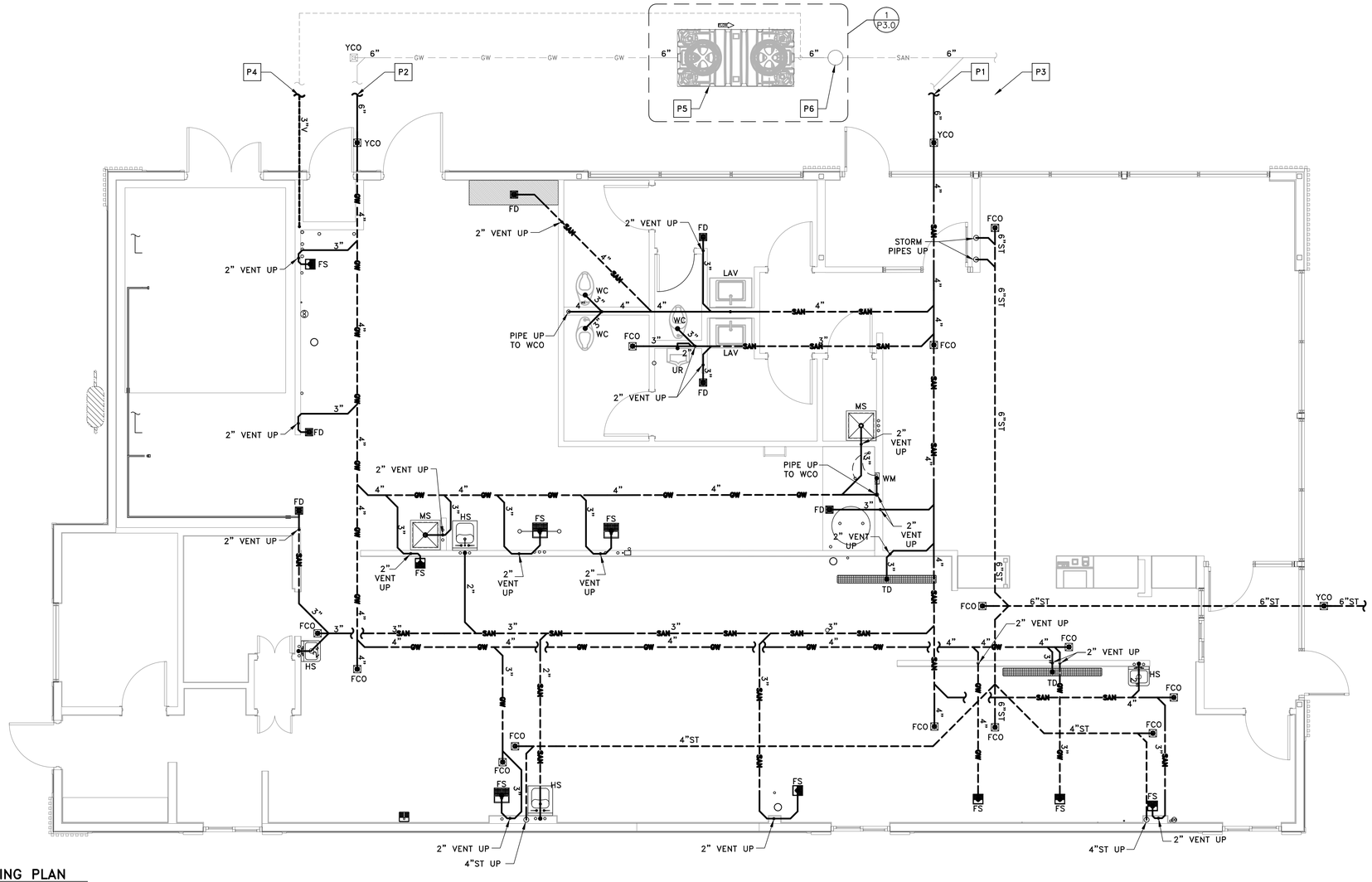

1 P1.3 **UNDERFLOOR PLUMBING PLAN**

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

DRAWING NOTES

1. PIPING ROUTES ARE GENERAL AND MAY VARY DUE TO FIELD CONDITIONS. COORDINATE ALL PIPE ROUTES WITH OTHER TRADES.
2. WALL CLEAN-OUTS FOR WASTE PIPING NOT SHOWN FOR CLARITY. SEE GENERAL NOTES FOR REQUIREMENTS.
3. ONLY MAIN FLOOR CLEAN-OUTS ARE SHOWN FOR CLARITY. SEE GENERAL NOTES FOR REQUIREMENTS.

KEYED NOTES

- P1 SANITARY LINE TO SANITARY SEWER. SEE SITE PLAN FOR CONTINUATION.
- P2 GREASE LINE TO EXTERIOR GREASE INTERCEPTOR. SEE SITE PLAN FOR CONTINUATION
- P3 STORM LINE TO STORM SYSTEM. SEE SITE PLAN FOR CONTINUATION.
- P4 VENT FROM GREASE INTERCEPTOR. SEE SITE PLAN FOR CONTINUATION. COORDINATE PIPE ROUTING WITH LOCATION OF GREASE INTERCEPTOR.
- P5 GREASE INTERCEPTOR LOCATION SHOWN FOR REFERENCE ONLY. COORDINATE GREASE INTERCEPTOR LOCATION WITH CIVIL ENGINEER AND SITE CONTRACTOR.
- P6 INSTALL SAMPLING PORT (IF REQUIRED) SCHIER, MODEL SV10 FOR SCHIER HYDROMECHANICAL GREASE INTERCEPTOR.

WASTE PIPE SIZING

FIXTURE TYPE	TRAP SIZE	DFU	QUANTITY	TOTAL
URINAL	2 IN.	2	1	2
WATER CLOSET	3 IN.	6	3	18
LAVATORY	1¼ IN.	1	2	2
WASH SINK (HAND SINK)	1½ IN.	1	4	4
FLOOR DRAIN OR SINK	3 IN.	4	5	20
FLOOR DRAIN OR SINK	4 IN.	6	1	6
EMERGENCY FLOOR DRAIN (BATHROOMS)	3 IN.	3	2	6
			TOTAL	58

GREASE PIPE SIZING

SERVICE SINK (MOP SINK)	3 IN.	3	2	6
FLOOR DRAIN OR SINK	3 IN.	4	7	28
FLOOR DRAIN OR SINK	4 IN.	6	1	6
WASHING MACHINE	2 IN.	4	1	4
			TOTAL	44

STORM PIPE SIZING

RAINFALL = 10-YEAR, 24 HOUR STORM EVENT = 4.2 IN./HR

VERTICAL LEADERS

	ROOF AREA	SIZE
ROOF DRAIN	SQ. FT.	IN.
RD-1	1,286	4
RD-2	1,382	4
RD-3	792	3
RD-4	792	3
TOTAL	4,252	

HORIZONTAL PIPING (SLOPE ⅛" PER FOOT)

	ROOF AREA	SIZE
ROOF DRAIN	SQ. FT.	IN.
RD-2 & RD-4	2,174	6
RD-2, RD-3 & RD-4	2,966	6
RD-1, RD-2, RD-3 & RD-4	4,252	6

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SHEET TITLE
UNDERGROUND PLUMBING

SHEET NUMBER:
P1.3

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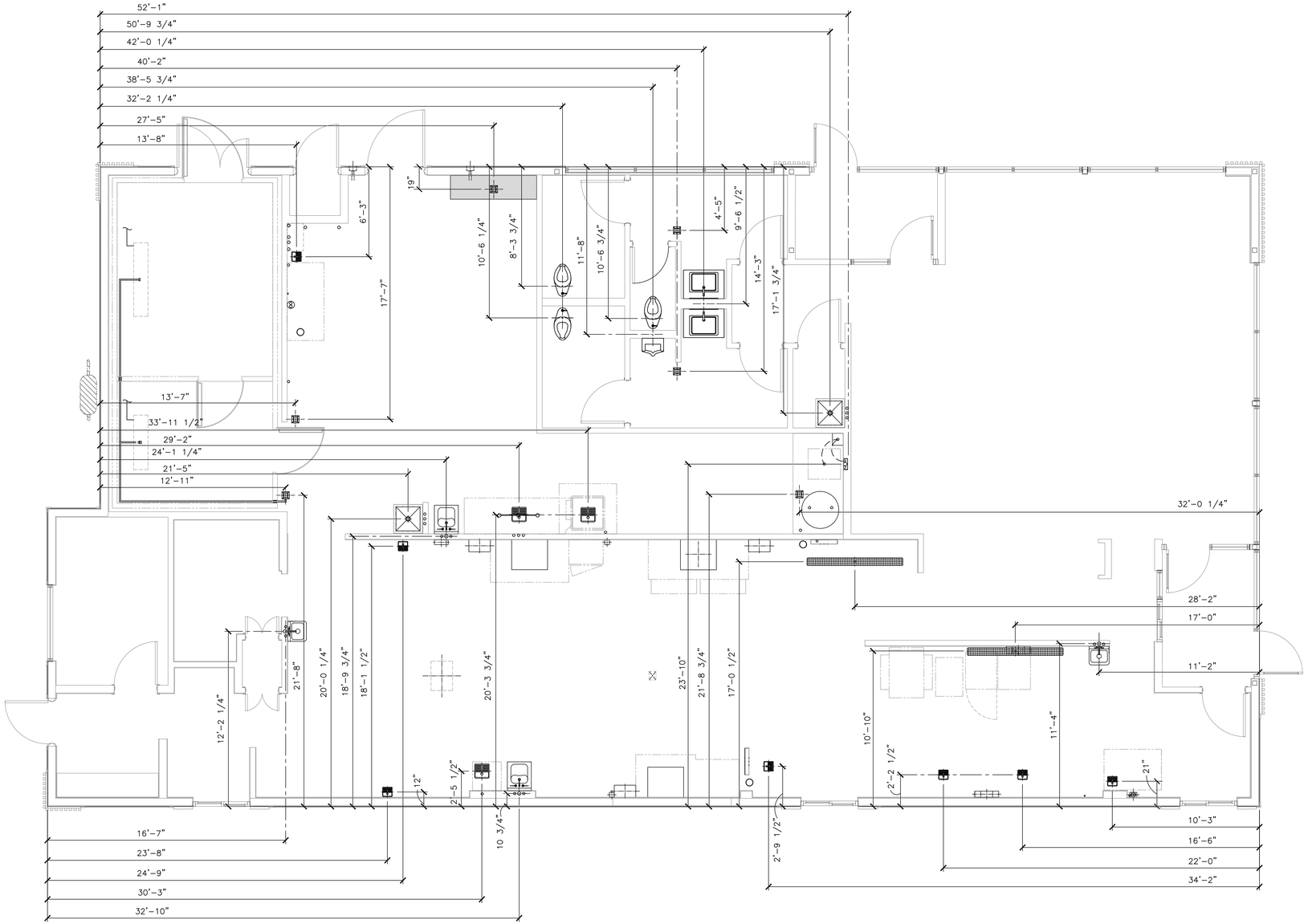

1 P1.4 **UNDERGROUND ROUGH-IN**

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

DRAWING NOTES

1. THIS PLAN IS PROVIDED AS A GUIDE FOR THE PLUMBING CONTRACTOR. ALL DIMENSIONS ARE ROUNDED TO THE NEAREST ¼" AND ARE TAKEN FROM THE OUTSIDE EDGE OF THE FOUNDATION WALL TO CENTERLINE OF SLAB PENETRATION.

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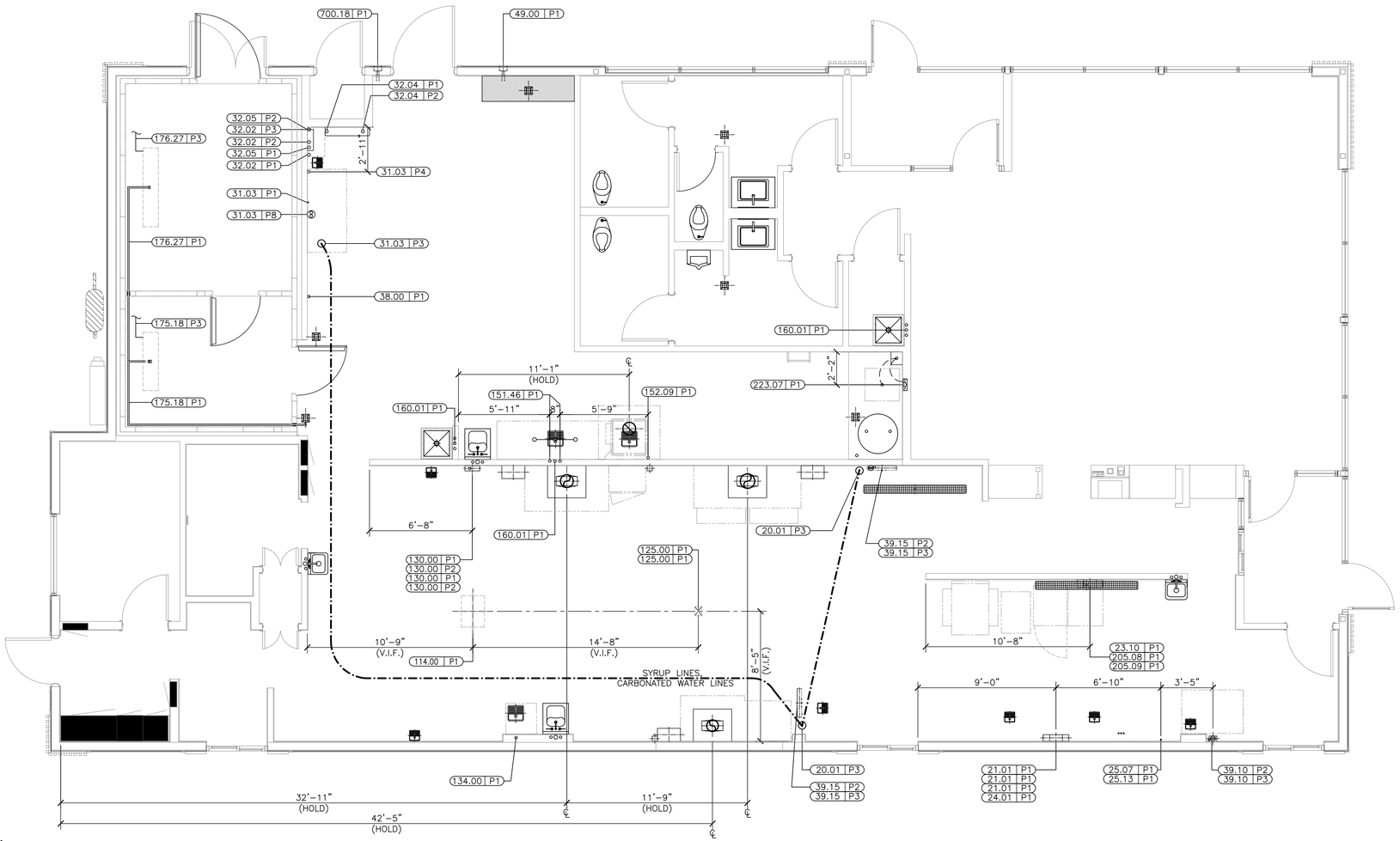

1 P1.6 **OVERHEAD ROUGH-IN**

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

VIF = Verify in Field
PC = Plumbing Contractor
BSI = Beverage System Installer

PLUMBING SCHEDULE

TAG #	QTY	DESCRIPTION	GAS TYPE	GAS BTU	GAS SIZE	HW	CW	MISC PLBG	HGT AFF	DRAIN	REQUIREMENTS & REMARKS
020.01P3	2	AUTOMATED BEVERAGE SYSTEM 2.0	–	–	–	–	–	SODA BUNDLE	SEE RMKS	–	DN CHASE FROM SODA SYSTEM – "T" FROM D/T – BSI TO MAKE FINAL CONNECTIONS PER LOCAL CODES
021.01P1	3	COFFEE BREWER (GLASS DECANTERS)	–	–	–	–	1/4" TRTD	–	SEE RMKS	–	DN CHASE FROM SODA SYSTEM – IF NO CHASE RUN IN 2"COND TO JB –BSI TO CONN CW LINE PER LOCAL CODES. 1/4" R.O. WATER OPTIONAL
023.10P1	1	ESPRESSO BREWER	–	–	–	–	3/8" R.O.	–	SEE RMKS	3/8" IND	DN CHASE FROM R.O. SYSTEM – IF NO CHASE RUN IN 2"COND TO JB –BSI TO CONN CW LINE PER LOCAL CODES
024.02P1	1	JUICE DISPENSER	–	–	–	–	1/2" FLTR	–	SEE RMKS	–	–
025.07P1	1	INFUSION TEA BREWER – MIS	–	–	–	–	1/2" TRTD	3/8" CO2	SEE RMKS	–	DN CHASE FROM SODA SYSTEM – IF NO CHASE RUN IN 2"COND TO JB –BSI TO CONN CW LINE PER LOCAL CODES
031.03P1	1	SODA SYSTEM PACKAGE B.I.B.(RECIRCULATING– 3 TOWERS)	–	–	–	–	–	3/8" OUTLET	SEE RMKS	–	FLEX LINE OVERHEAD TO VARIOUS EQUIP. BSI TO MAKE FINAL CONN PER LOCAL CODES
031.03P3	1	SODA SYSTEM PACKAGE B.I.B.(RECIRCULATING– 3 TOWERS)	–	–	–	–	–	SODA BUNDLE	SEE RMKS	–	OVERHEAD TO SODA TOWER CHASE(S) – BSI TO MAKE FINAL CONNECTIONS PER LOCAL CODES
031.03P4	1	SODA SYSTEM PACKAGE B.I.B.(RECIRCULATING– 3 TOWERS)	–	–	–	–	3/4"	–	1'–6"	3/4" IND	BSI TO MAKE CONNECTION FROM BACKFLOW PREVENTER (VERIFY HEIGHT IN FIELD)
031.03P8	1	SODA SYSTEM PACKAGE B.I.B.(RECIRCULATING– 3 TOWERS)	–	–	–	–	–	REFRIG LINES	SEE RMKS	–	FROM REMOTE CONDENSING UNIT
032.02P1	1	REVERSE OSMOSIS WATER FILTRATION SYSTEM – TANKLESS	–	–	–	–	3/8" FLTR	–	SEE RMKS	–	FLEX LINE OVERHEAD FROM SODA SYSTEM –BSI TO MAKE FINAL CONN PER LOCAL CODES
032.02P2	1	REVERSE OSMOSIS WATER FILTRATION SYSTEM – TANKLESS	–	–	–	–	–	3/8" OUTLET	SEE RMKS	–	FLEX LINE OVERHEAD TO RAPID STEAMER, ESPRESSO, AND COFFEE (OPT.) –BSI TO MAKE FINAL CONN PER LOCAL CODES
032.02P3	1	REVERSE OSMOSIS WATER FILTRATION SYSTEM – TANKLESS	–	–	–	–	–	–	–	1/4" WASTE	–
032.04P1	1	WATER FILTRATION SYSTEM	–	–	–	–	–	3/4" INLET	6'–0"	–	–
032.04P2	1	WATER FILTRATION SYSTEM	–	–	–	–	–	3/4" OUTLET	–	–	3/4" GHT RINSE CONN. FLEX LINE OVHD. TO RAPID STEAMER, ESPRESSO, & COFFEE (OPT.) –BSI TO MAKE FINAL CONN PER LOCAL CODE
032.05P1	1	WATER FILTRATION SYSTEM	–	–	–	–	–	3/4" INLET	SEE RMKS	–	FLEX LINE OVERHEAD FROM R.O. SYSTEM –BSI TO MAKE FINAL CONN PER LOCAL CODES
032.05P2	1	WATER FILTRATION SYSTEM	–	–	–	–	–	3/4" OUTLET	SEE RMKS	–	FLEX LINE OVERHEAD TO COMBI OVENS AND STAGING CABINET –BSI TO MAKE FINAL CONN PER LOCAL CODES
038.00P1	1	CLEAN IN PLACE PANEL	–	–	–	–	1/2" FLTR	–	6'–0"	–	FOR CLEANING BULK COKE TANKS. INSTALL HEIGHT TO BOTTOM OF UNIT
039.10P2	1	ICE MACHINE – 1400 LB.	–	–	–	–	1/2" TRTD	–	SEE RMKS	3/4" IND	WATER LINE OVERHEAD FROM SODA SYSTEM – BSI TO MAKE FINAL CONNECTIONS PER LOCAL CODES

VIF = Verify in Field
PC = Plumbing Contractor
BSI = Beverage System Installer

PLUMBING SCHEDULE

TAG #	QTY	DESCRIPTION	GAS TYPE	GAS BTU	GAS SIZE	HW	CW	MISC PLBG	HGT AFF	DRAIN	REQUIREMENTS & REMARKS
039.10P3	1	ICE MACHINE – 1400 LB.	–	–	–	–	–	REFRIG LINES	–	–	REFRIGERATION LINES OVERHEAD FROM REMOTE CONDENSING UNIT
039.15P2	2	ICE MACHINE – 1000 LB.	–	–	–	–	1/2" TRTD	–	SEE RMKS	3/4" IND	WATER LINE OVERHEAD FROM SODA SYSTEM – BSI TO MAKE FINAL CONNECTIONS PER LOCAL CODES
039.15P3	2	ICE MACHINE – 1000 LB.	–	–	–	–	–	REFRIG LINES	–	–	REFRIGERATION LINES OVERHEAD FROM REMOTE CONDENSING UNIT
049.00P1	1	CO2 FILL BOX	–	–	–	–	–	–	3'–4"	–	HEIGHT IS TO BOTTOM OF FILL BOX;SUPPLIED BY MANUFACTURER;INSTALLED BY G.C. SEE BUILDING ELEVATIONS.
114.00P1	1	HUMIDIFIED HOLDING CABINET	–	–	–	–	3/8" R.O.	–	SEE RMKS	–	BSI EXTENDS CW LINE OVERHEAD FROM R.O. SYSTEM & TERM. W/QUICK DISCONN. AND SHUTOFF
125.00P1	2	RAPID BUN STEAMER	–	–	–	–	3/8" R.O.	–	SEE RMKS	–	BSI EXTENDS CW LINE FROM R.O. SYSTEM & TERM. W/QUICK DISCONN.
130.00P1	2	COMBI OVEN	–	–	–	–	1/2" FLTR	–	SEE RMKS	1 1/2" IND	BSI EXTENDS CW LINE OVERHEAD FROM SODA SYSTEM & TERM. W/QUICK DISCONN. AND SHUTOFF
130.00P2	2	COMBI OVEN	–	–	–	–	3/8" R.O.	–	SEE RMKS	–	BSI EXTENDS CW LINE OVERHEAD FROM R.O. SYSTEM & TERM. W/QUICK DISCONN. AND SHUTOFF
134.00P1	1	VEGETABLE SINK	–	–	–	–	3/4"	–	1'–10"	1–1/2" IND	–
151.46P1	1	SOILED DISHTABLE – RIGHT HAND – 90.5" WIDE	–	–	–	3/4" 140	3/4"	–	1'–6"	–	PC MAKES FINAL CONNECTIONS PER LOCAL CODE
152.08P1	1	WAREWASHER – HIGH TEMP	–	–	–	–	3/4"	–	SEE RMKS	1" INDIRECT	PC TO PROVIDE HW, CW, INDIRECT DRAIN PIPING AND MAKE ALL FINAL CONNECTIONS. CW @ 1'–0" AFF, DRAIN @ 36"
160.01P1	3	CHEMICAL SYSTEM	–	–	–	3/4" 110	–	–	SEE RMKS	–	PC TO PROVIDE 3/4" MHT. FINAL CONNECTIONS BY EQUIPMENT INSTALLER PER LOCAL CODE. SEE SHEET P3.0 FOR INSTALLATION HEIGHT
175.18P1	1	COOLER EVAPORATOR	–	–	–	–	–	–	–	3/4" COND.	PC TO ROUTE CONDENSATE DRAIN LINE TO FLOOR DRAIN. PC TO LIQUID–TIGHT SEAL OPENING FOR LINE EXITING BOX
175.18P3	1	COOLER EVAPORATOR	–	–	–	–	–	REFRIG LINES	–	–	RUN TO REMOTE CONDENSING UNIT–INSULATE FULL RUN LENGTH –INSTALLED BY REFRIG. CONTRACTOR
176.27P1	1	FREEZER EVAPORATOR	–	–	–	–	–	–	–	3/4" COND.	PC TO ROUTE CONDENSATE DRAIN LINE TO FLOOR DRAIN. PC TO LIQUID–TIGHT SEAL OPENING FOR LINE EXITING BOX. HEAT TAPE BY REF.
176.27P3	1	FREEZER EVAPORATOR	–	–	–	–	–	REFRIG LINES	–	–	RUN TO REMOTE CONDENSING UNIT–INSULATE FULL RUN LENGTH–INSTALLED BY REFRIG. CONTRACTOR
205.08P1	1	BIC MACHINE	–	–	–	–	1/2" FLTR	–	SEE RMKS	1" IND	DN CHASE. IF NO CHASE RUN IN 2"COND TO JB –BSI TO CONNECT LINES PER LOCAL CODES
205.09P1	1	FROZEN BEVERAGE DISPENSER	–	–	–	–	1/2" FLTR	3/8" CO2	SEE RMKS	–	DN CHASE. IF NO CHASE RUN IN 2"COND TO JB –BSI TO CONNECT LINES PER LOCAL CODES
223.07P1	1	WASHER	–	–	–	3/4" 140	3/4"	–	4'–0"	1 1/2" D	SEE PLUMBING DWGS FOR WALL BOX. INSTALL HEIGHT IS TO BOTTOM OF THE BOX
700.18P1	1	BULK OIL FILL BOX	–	–	–	–	–	–	3'–4"	–	HEIGHT IS TO BOTTOM OF FILL BOX;SUPPLIED BY MANUFACTURER;INSTALLED BY G.C. SEE BUILDING ELEVATIONS.

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LICENSE EXPIRATION: APR 30, 2027

JOSEPH G. THOMAS LICENSED 16129 KANSAS PROFESSIONAL ENGINEER

DATE ISSUED: JUN 22, 2026

STATE ID: 150404
PROJECT #: 26-028
NATIONAL #: 44655
DRAWN BY: SC
CHECKED BY: JT

DATE: 04/08/26 - PERMIT / BID SET

REVISIONS

1. 05/07/26 - QC COMMENTS/ADA UPDATE
2. 06/22/26 - CITY COMMENTS / DECOR

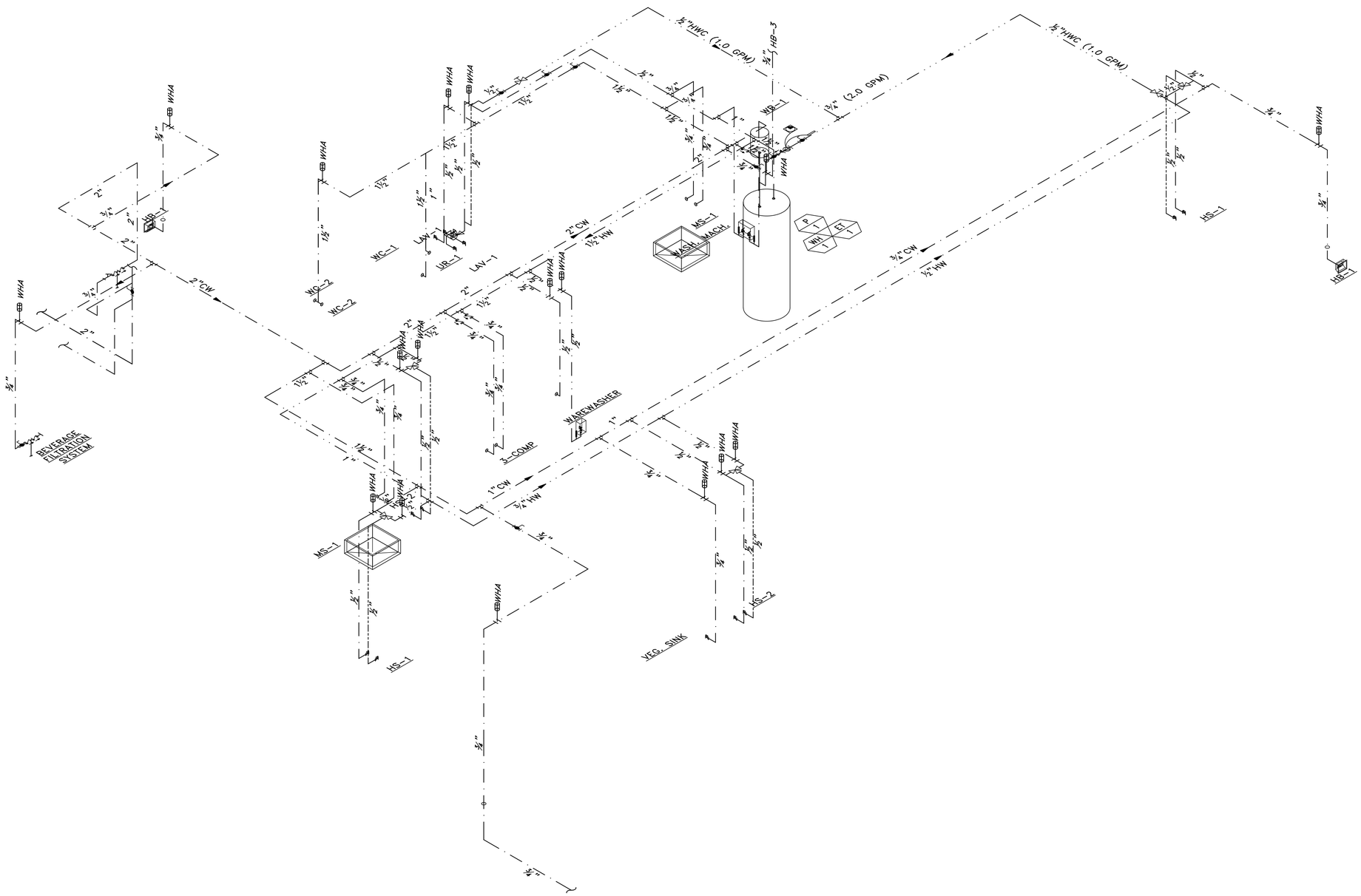
CLIENT
McDonald's USA, LLC

PROTOTYPE
BB20 4584 WW-HB
ISSUE DATE 02/25

ADDRESS
707 1/2 METROPOLITAN AVE
LEAVENWORTH, KS 66048

SHEET TITLE
OVERHEAD ROUGH-IN

SHEET NUMBER:
P1.6



1 P2.0 **DOMESTIC WATER PIPING ISOMETRIC**

SCALE: NONE

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ISSUE DATE 02/25

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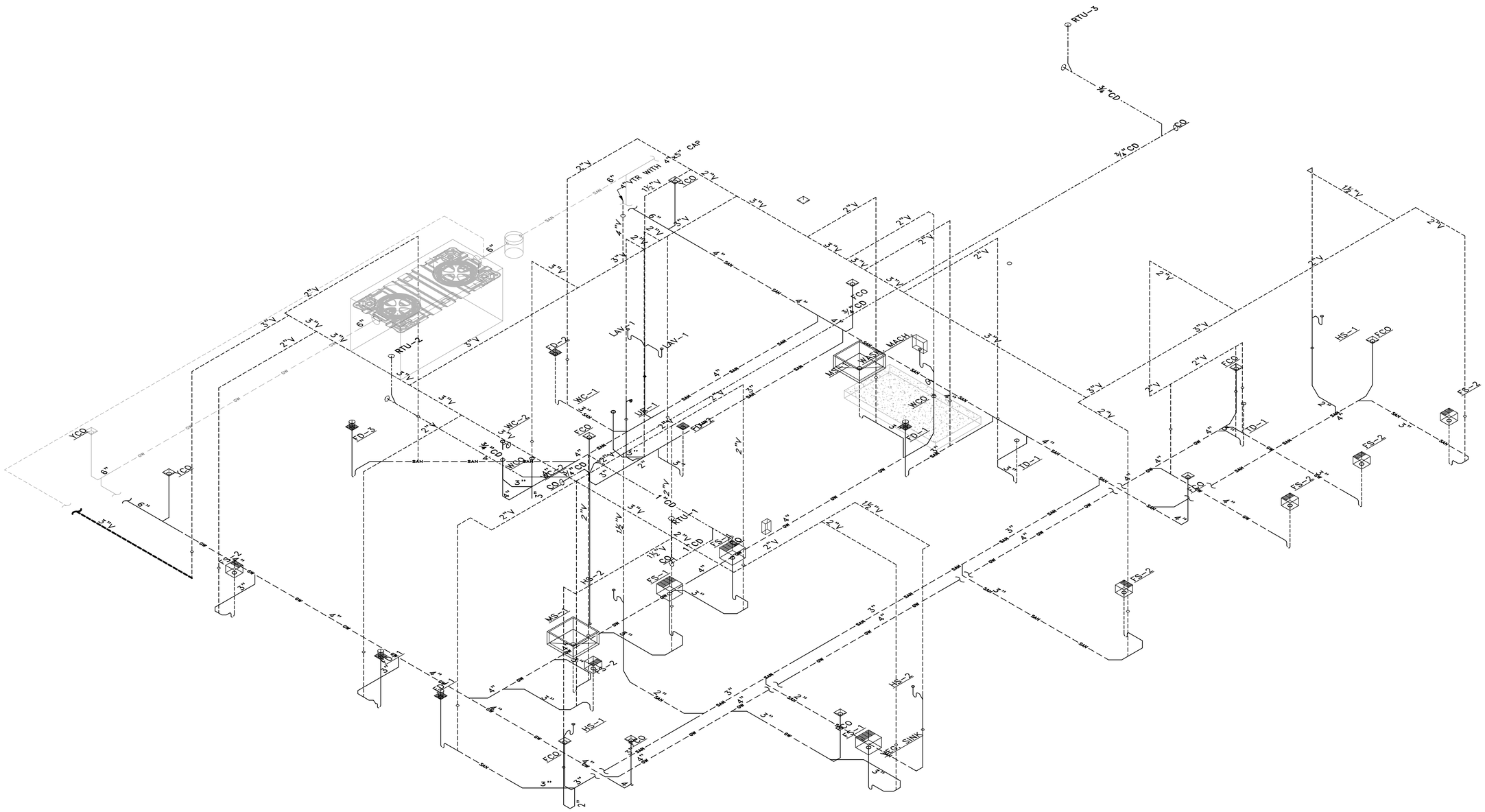
SHEET TITLE
DOMESTIC WATER ISOMETRIC

SHEET NUMBER:
P2.0



1 P2.1 **WASTE & VENT PIPING ISOMETRIC**

SCALE: NONE

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DATE ISSUED: JUN 22, 2026

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PROJECT #: 26-028
NATIONAL #: 446655
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ADDRESS
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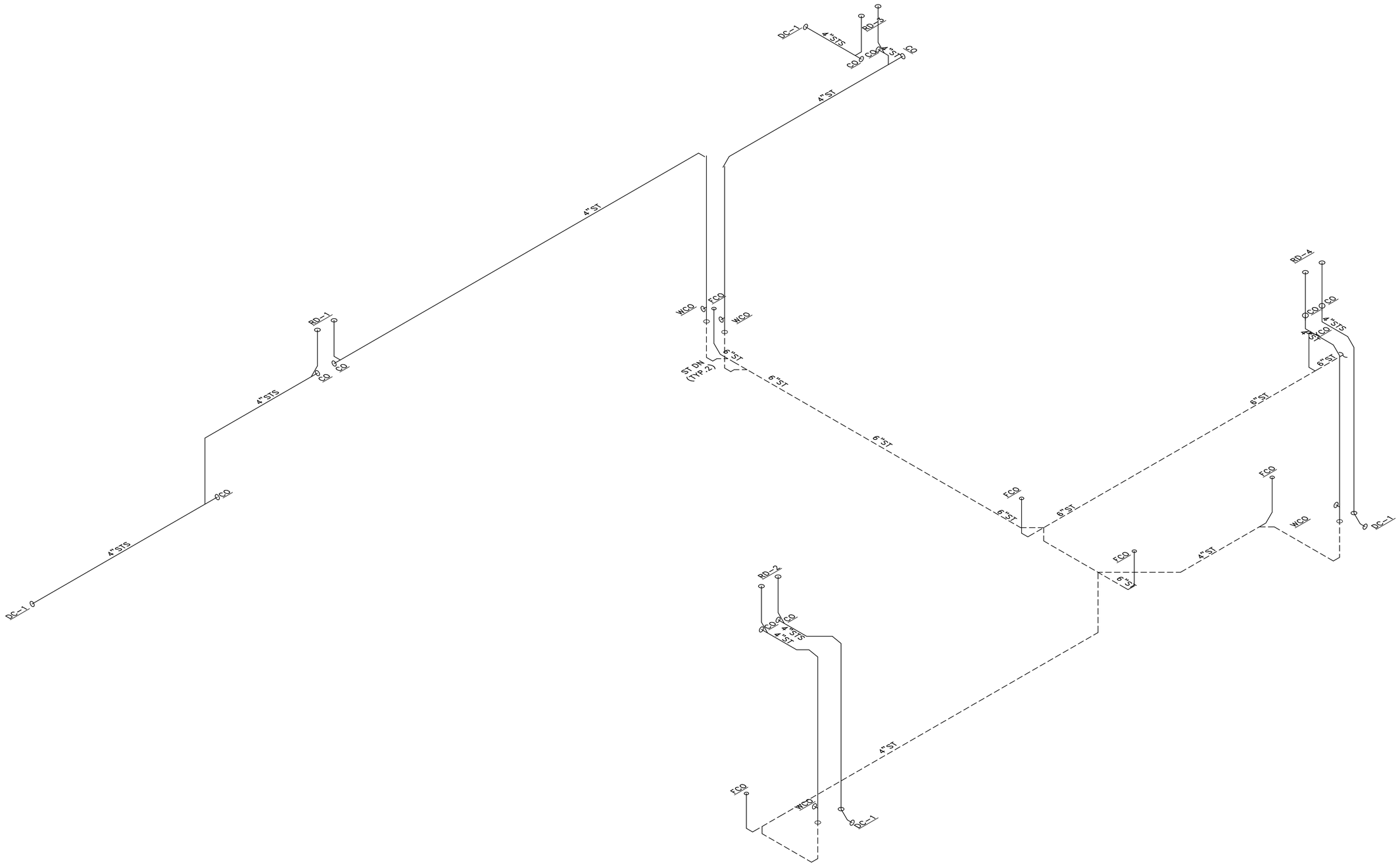
SHEET TITLE
WASTE & VENT ISOMETRIC

SHEET NUMBER:
P2.1



1
P2.2

STORM PIPING ISOMETRIC

SCALE: NONE

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16129
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DATE ISSUED: JUN 22, 2026

STATE ID: 150404
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CLIENT
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PROTOTYPE
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ISSUE DATE 02/25

ADDRESS
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SHEET TITLE
STORM ISOMETRIC

SHEET NUMBER:
P2.2

FIXTURE INFORMATION:

NAME	TYPE	FLOW RATE	OTHER	QTY.
3–COMP. SINK	3–COMPARTMENT SINK	GPM (1–MINUTE DRAIN TIME): 46.636 GPM (2–MINUTE DRAIN TIME): 21.818	DFU: 6 CAPACITY: 58.182 GAL.	1
FLOOR SINK/DRAIN	FLOOR SINK	GPM (1–MINUTE DRAIN TIME): 5 GPM (2–MINUTE DRAIN TIME): 2.5	DFU: 2 CAPACITY: 0 GAL.	11
MOP SINK – MS–1	MOP BASIN	GPM (1–MINUTE DRAIN TIME): 22.442 GPM (2–MINUTE DRAIN TIME): 11.221	DFU: 3 CAPACITY: 29.922 GAL.	2
VEGETABLE PREP SINK	PREP SINK ONE BOWL	GPM (1–MINUTE DRAIN TIME): 4.675 GPM (2–MINUTE DRAIN TIME): 2.338	DFU: 2 CAPACITY: 6.234 GAL.	1
WAREWASHER HOBART AM16SVLT–1	DOOR TYPE	GPM (1–MINUTE DRAIN TIME): 60 GPM (2–MINUTE DRAIN TIME): 30	DFU: 2 CAPACITY: 60 GAL.	1
TOTALS:		GPM (1–MINUTE DRAIN TIME): 208.19 GPM (2–MINUTE DRAIN TIME): 104.1	DFU: 38 CAPACITY: 184.26 GAL.	

SIZING DETAILS:

PROJECT INFORMATION
CONSTRUCTIONS TYPE: NEW CONSTRUCTION
ADDITIONAL NOTES: McDONALD'S 4584 BUILDING – PROTOTYPICAL

LOCATION: OUTDOORS
BURIED: YES
HIGH WATER AREA: NO

FLOW RATE CALCULATION:
FLOW RATE TO INTERCEPTOR = (LESSER OF FLOW RATE BY PIPE SIZE AND FLOW RATE BY FIXTURES)
SIZE OF PIPE CONNECTED TO THE GREASE INTERCEPTOR: 4 IN.
DRAINAGE PERIOD: 2 MINUTES
FLOW RATE BY PIPE SIZE: 75 GPM
FLOW RATE BY FIXTURES, 2–MINUTE DRAINAGE PERIOD: 104.097 GPM
FLOW RATE BY FIXTURES, 1–MINUTE DRAINAGE PERIOD: 208.195 GPM
FLOW RATE USED TO SELECT GREASE INTERCEPTOR: 75 GPM
FIXTURE DFU: 38

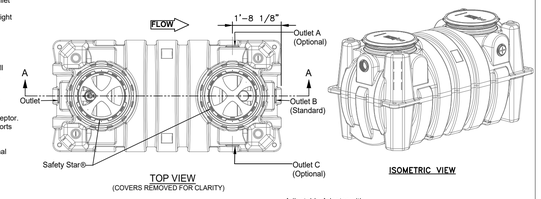
GREASE OUTPUT:
MENU TYPE: FAST FOOD – FULL PREP
FRYER IN KITCHEN: YES
FOOD WASTE DISPOSER: YES
NUMBER OF SEATS: 38 SEATS
GREASE PRODUCTION VALUE: 0.035 LBS. PER SERVING (6.02 LBS. PER DAY)

30–DAY GREASE PRODUCTION 180.6 LBS.
60–DAY GREASE PRODUCTION: 361.2 LBS.
90–DAY GREASE PRODUCTION: 541.8 LBS.

CALCULATION:
GREASE OUTPUT=(NUMBER OF SEATS)×(AVERAGE TURNS PER SEAT PER 24 HOURS)×(GREASE PRODUCTION VALUE)×(DAYS BETWEEN PUMP–OUT).

DETAIL 1 P3.0
GREASE INTERCEPTOR
SCALE: NONE

SPECIFICATIONS
Notes:
1. 4" FPT inlet/outlet with 4" plain end adapters, single inlet and triple outlet.
2. Unit weight - w/ cast iron covers: 528 lbs. (For wet weight add 4,254 lbs.)
3. Maximum operating temperature: 150° F continuous
4. Capacities - Liquid: 510 gal.
   Grease: 3,048 lbs. (417 gal.) @100 GPM
   Solids: 128 gal.
5. Built-in flow control. For series installations, only install flow control on the first unit in the series if necessary.
6. For gravity drainage applications only.
7. Do not use for pressure applications.
8. Cover placement allows full access to tank for proper maintenance.
9. A Vent shall be installed downstream of grease interceptor.
10. Engineered inlet and outlet diffusers with inspection ports are removable to inspect / clean piping.
11. Integral air relief / Anti-siphon / Sampling access.
12. Adjustable cover adapters provide up to 4" of additional height.
13. Designed for below-grade, above-grade, indoor or outdoor installations.
14. Safety Star®, access restrictor built into each cover adapter, prevents accidental entry to tanks (450 lb rating).

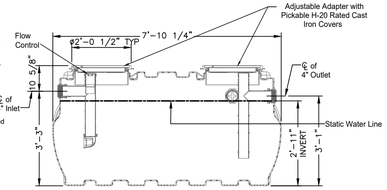


TOP VIEW
(COVERS REMOVED FOR CLARITY)

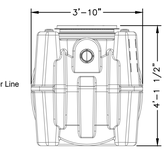
ISOMETRIC VIEW

ENGINEER SPECIFICATION GUIDE
Schier Great Basin™ grease interceptor model # GB-500 shall be lifetime guaranteed and made in USA of seamless, rotationally-molded polyethylene with minimum 7/16" uniform wall thickness. Flow control cartridge shall be PVC. Interceptor shall be furnished for above or below-grade installation with adjustable cover adapter, Safety Star® access restrictor built into each cover adapter, and three outlet options. Interceptor shall be certified to ASME A112.14.3 (Type C) and CSA B481.1. Interceptor flow rate shall be 100 GPM. Interceptor grease capacity shall be 3,048 lbs. Cover shall provide water/gas-tight seal and have minimum 16,000 lbs. load capacity.

CERTIFIED PERFORMANCE
Great Basin™ hydromechanical grease interceptors are third party performance-tested and listed by IAPMO to ASME #A112.14.3 and CSA B481.1 grease interceptor standards and greatly exceed requirements for grease separation and storage. They are compliant to the Uniform Plumbing Code and the International Plumbing Code.



SECTION A–A



END VIEW

SPECIFICATION SHEET

MODEL NUMBER:	PART NUMBER: 4075-001-01		
GB-500	DESCRIPTION: GB-500 GREASE INTERCEPTOR 100 GPM, 4" INLET/OUTLET, H-20 RATED CAST IRON COVERS		
PROPRIETARY AND CONFIDENTIAL			
DWG BY: C. BUSENITZ	DATE: 4/14/2022	REV: -	ECO: -

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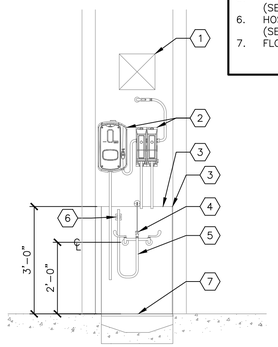
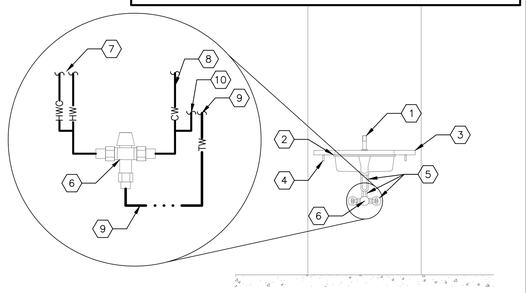
Fax: 913-951-3399
schierproducts.com

KEYED NOTES:
1. ACCESS PANEL FOR THERMOSTATIC MIXING VALVE (SEE CHEMICAL SYSTEM INSTALLATION DETAIL)
2. ECOLAB CHEMICAL SYSTEM (SEE CHEMICAL SYSTEM INSTALLATION DETAIL)
3. 24"Wx36"H WALL GUARD (QTY. 2) FURNISHED WITH MOP SINK (SEE PLUMBING FIXTURE SCHEDULE)
4. MOP SINK FAUCET WITH INTEGRAL VACUUM BREAKER (SEE PLUMBING FIXTURE SCHEDULE)
5. HOSE FURNISHED WITH MOP SINK FAUCET (SEE PLUMBING FIXTURE SCHEDULE)
6. HOSE BRACKET FURNISHED WITH MOP FAUCET (SEE PLUMBING FIXTURE SCHEDULE)
7. FLOOR GRATE



DETAIL 2 P3.0
RECESSED MOP SINK
SCALE: ½"=1'–0"

KEYED NOTES:
1. FAUCET (SEE PLUMBING FIXTURE SCHEDULE)
2. LAVATORY OR HAND SINK (SEE PLUMBING FIXTURE SCHEDULE)
3. CORIAN COUNTERTOP – TOILET ROOMS ONLY (FURNISHED BY G.C.)
4. LAVATORY CARRIER – TOILET ROOMS ONLY (SEE ARCHITECTURAL DRAWINGS)
5. OUTLINE OF ADA COMPLIANT WRAP (SEE PLUMBING FIXTURE SCHEDULE)
6. THERMOSTATIC MIXING VALVE (SEE VALVE SCHEDULE)
7. HOT WATER AND HWC DOWN WALL (WITH BALANCING VALVE AND CHECK VALVE INSTALLED).
8. COLD WATER DOWN TO MIXING VALVE
9. TEMPERATED WATER TO FIXTURES
10. COLD WATER TO FIXTURES AS APPLICABLE.



DETAIL 3 P3.0
LAVATORY (PUBLIC)
SCALE: ½"=1'–0"

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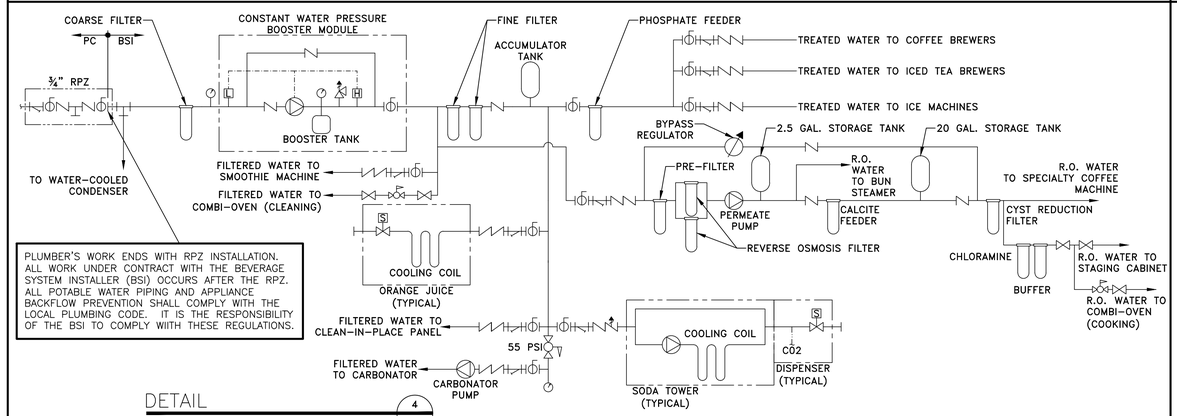
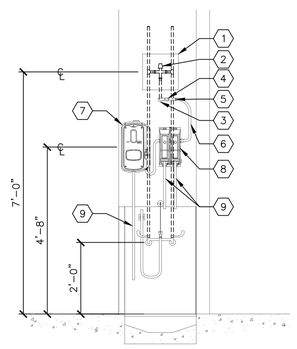
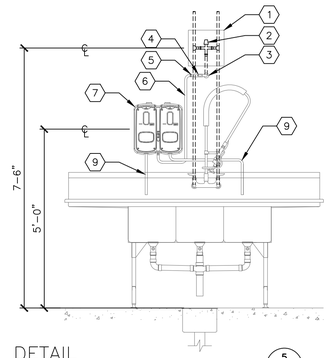
DATE ISSUED: JUN 22, 2026



PLUMBER'S WORK ENDS WITH RPZ INSTALLATION. ALL WORK UNDER CONTRACT WITH THE BEVERAGE SYSTEM INSTALLER (BSI) OCCURS AFTER THE RPZ. ALL POTABLE WATER PIPING AND APPLIANCE BACKFLOW PREVENTION SHALL COMPLY WITH THE LOCAL PLUMBING CODE. IT IS THE RESPONSIBILITY OF THE BSI TO COMPLY WIITH THESE REGULATIONS.

DETAIL 4 P3.0
BEVERAGE SYSTEM DISTRIBUTION SCHEMATIC
SCALE: NONE



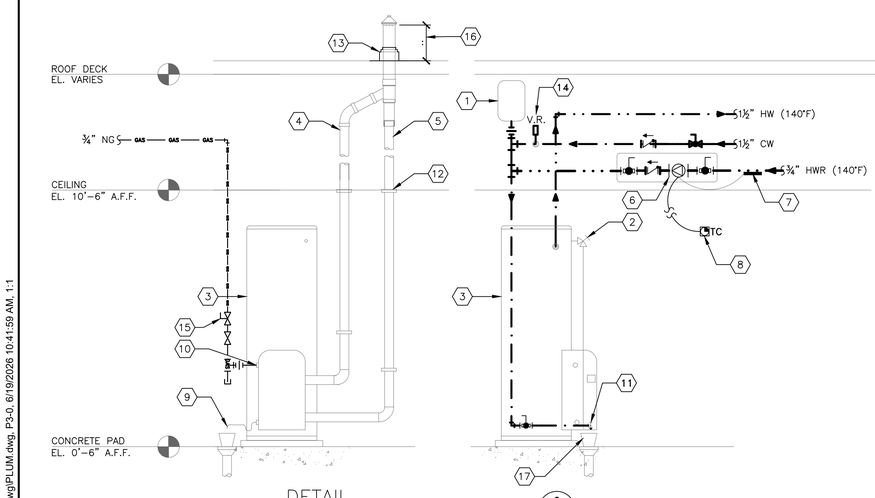


DETAIL 5 P3.0
CHEMICAL SYSTEM INSTALLATION
SCALE: ½"=1'–0"

KEYED NOTES:
1. 12"x12" ACCESS PANEL (COORDINATE INSTALLATION WITH G.C.)
2. THERMOSTATIC MIXING VALVE SET TO 110°F (SEE VALVE SCHEDULE)
3. PIPE THROUGH WALL WITH ESCUTCHEON PLATE
4. SHUT–OFF VALVE
5. ¾" MHT CONNECTION

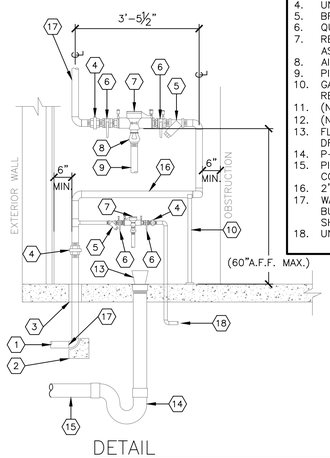
PLUMBER'S WORK ENDS AT MHT CONNECTION

6. HOSE TO CHEMICAL SYSTEM
7. ECOLAB SOLIDSENSE CHEMICAL DISPENSER
8. ECOLAB SMARTSHAPE CHEMICAL DISPENSER
9. CHEMICAL DISPENSING HOSE

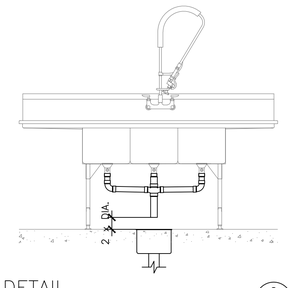


DETAIL 6 P3.0
WATER HEATER PIPING
SCALE: NONE

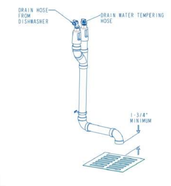
KEYED NOTES:
1. THERMAL EXPANSION TANK (SEE EXPANSION TANK SCHEDULE)
2. WATER HEATER PRESSURE/TEMPERATURE RELIEF VALVE (EXTEND TO FLOOR DRAIN)
3. WATER HEATER (SEE WATER HEATER SCHEDULE)
4. 3" PVC INTAKE. (SIZE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS)
5. 3" ABS MIN. 84" REQ'D. (SIZE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS).
6. RECIRULATION PUMP (SEE PUMP SCHEDULE)
7. STRAP–ON AQUASTAT FOR PUMP CONTROL
8. TIMECLOCK TO SHUT DOWN PUMP AND WATER HEATER DURING UNOCCUPIED HOURS
9. SEALED–COMBUSTION CONDENSATE DRAIN (EXTEND TO FLOOR DRAIN)
10. GAS CONNECTION
11. WATER HEATER DRAIN (EXTEND TO FLOOR DRAIN)
12. PIPE SUPPORT EVERY 5 FT. MINIMUM
13. PIPE BOOT BY PORTALS PLUS (OR EQUAL)
14. PROVIDE VACUUM RELIEF VALVE FOR BOTTOM–FED WATER HEATERS (ANSI Z21.22) WILKINS MODEL VR10.
15. GAS PRESSURE REGULATOR (AS APPLICABLE).
16. CONCENTRIC VENT KIT. MAINTAIN 12" MIN. CLEARANCE ABOVE HIGHEST ANTICIPATED SNOW LEVEL. MAXIMUM OF 24" ABOVE ROOF.
17. FLOOR DRAIN WITH FUNNEL OR FLOOR SINK. REFER TO P1.2 FOR PLAN AND P4.1 FOR SCHEDULE.



DETAIL 7 P3.0
INCOMING WATER SERVICE
SCALE: ½"=1'–0"



DETAIL 8 P3.0
INDIRECT DRAINAGE PIPING (TYP.)
SCALE: ½"=1'–0"



DETAIL 9 P3.0
WAREWASHER DRAIN AIR GAP KIT
SCALE: NTS

STATE ID: 150404
PROJECT #: 26-028
NATIONAL #: 44655
DRAWN BY: SC
CHECKED BY: JT

DATE: 04/08/26 - PERMIT / BID SET

REVISIONS
1. 05/07/26 - QC COMMENTS/ADA UPDATE
2. 06/22/26 - CITY COMMENTS / DECOR

CLIENT
McDonald's USA, LLC

PROTOTYPE
BB20 4584 WW-HB
ISSUE DATE 02/25

ADDRESS
707 1/2 METROPOLITAN AVE
LEAVENWORTH, KS 66048

SHEET TITLE
DETAILS

SHEET NUMBER:
P3.0

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GENERAL PLUMBING NOTES

GENERAL:

1. ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
2. ALL PLUMBING WORK SHALL BE PERFORMED BY A LICENSED PLUMBER.
3. ALL DIMENSIONS, CLEARANCES AND TOLERANCES SHALL BE VERIFIED PRIOR TO INSTALLATION. ALL ROUGH-IN LOCATIONS SHALL BE COORDINATED WITH THE MANUFACTURER'S SUBMITTAL INFORMATION.
4. ALL DIMENSIONAL INFORMATION IS AS FOLLOWS (UNLESS NOTED OTHERWISE):
   A. UNDERGROUND PIPE IS TO FOUNDATION
   B. OVERHEAD PIPE IS TO FINISHED WALL
   C. ELEVATIONS ARE TO FINISHED FLOOR
5. ALL MATERIALS, FIXTURES AND EQUIPMENT USED SHALL BE IN ACCORDANCE WITH McDONALD'S SPECIFICATIONS. SPECIFICATIONS ARE CONTAINED WITHIN THESE DRAWINGS AND THE McDONALD'S PROJECT MANUAL. ANY CONTRACTOR IN NEED OF A COPY OF THE McDONALD'S PROJECT MANUAL SHALL CONTACT THE McDONALD'S AREA CONSTRUCTION MANAGER. ANY VARIANCE FROM THE McDONALD'S SPECIFICATIONS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER-OF-RECORD.
6. SEE COORDINATION SCHEDULE FOR ADDITIONAL SCOPE OF WORK.
7. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH ITS LISTING AND/OR THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
8. WHERE POOR SOIL CONDITIONS EXIST OR WHERE SUBSTANTIAL SETTLEMENT OF EITHER THE PIPING, THE BUILDING OR ADJACENT WALKS, PLANTERS, ETC., MAY OCCUR, THE CONTRACTOR SHALL PROVIDE ADEQUATE UNDERSLAB STAINLESS STEEL PIPE HANGERS OR APPROVED OTHER SUPPORT.
9. ALL PIPE SLEEVES SHALL BE PROPERLY SEALED AND INSULATED TO PREVENT HEAT LOSS AND SEEPAGE.
10. ALL PIPE INSULATION SHALL BE PROTECTED FROM DAMAGE FROM PIPE HANGERS. PROTECTION SHALL BE LIGHT GAUGE GALVANIZED STEEL OR EQUAL.
11. ALL PENETRATIONS OF FIRE-RATED WALLS SHALL BE FIRESTOPPED WITH AN APPROVED AND LISTED FIRESTOPPING SYSTEM.

SANITARY AND VENT SYSTEMS:

1. THE BUILDING SANITARY PIPE SHALL BE LOCATED A MINIMUM OF 10 FT. FROM THE INCOMING WATER SERVICE. WHERE A 10 FT. SEPARATION IS NOT POSSIBLE, THE BOTTOM OF THE WATER SERVICE PIPE SHALL BE A MINIMUM OF 12 IN. ABOVE THE TOP OF THE HIGHEST POINT OF THE SANITARY PIPE.
2. ALL SANITARY AND VENT PIPE SHALL BE PVC TYPE DWV, ABS OR CAST-IRON WHERE REQUIRED BY CODE.
3. ALL HORIZONTAL SANITARY PIPE SHALL BE INSTALLED WITH A MINIMUM PITCH AS FOLLOWS:

PIPE SIZE	MIN. SLOPE
2½" OR LESS	¼" PER FT.
3" TO 6"	⅛" PER FT.
8" OR LARGER	⅛" PER FT. (MIN)

4. CLEANOUTS SHALL BE INSTALLED IN ALL HORIZONTAL DRAINAGE PIPE AND SHALL BE LOCATED NOT MORE THAN 100 FT. APART. (UNLESS OTHERWISE DICTATED BY LOCAL CODES).
5. CLEANOUTS SHALL BE INSTALLED AT ALL CHANGES OF DIRECTION GREATER THAN 45 DEGREES. WHERE MORE THAN ONE CHANGE OF DIRECTION OCCURS IN A SINGLE PIPE RUN, ONLY ONE (1) CLEANOUT SHALL BE REQUIRED FOR EVERY 40 FEET OF DEVELOPED LENGTH.
6. CLEANOUTS SHALL BE INSTALLED ON PIPES PRIOR TO ANY SLAB PENETRATION.
7. WHERE PIPING IS LOCATED WITHIN WALL CAVITIES, ACCESS TO THE CLEANOUTS SHALL BE PROVIDED.
8. CLEANOUTS ON 6-IN. AND SMALLER PIPES SHALL BE PROVIDED WITH A CLEARANCE OF NOT LESS THAN 18 IN. CLEANOUTS ON 8-IN. AND LARGER PIPE SHALL BE PROVIDED WITH A CLEARANCE OF NOT LESS THAN 36 IN.
9. ALL SUSPENDED SANITARY AND VENT PIPE SHALL BE SUPPORTED AS FOLLOWS:

MATERIAL	MAX. HORIZ. SPACING	MAX. VERT. SPACING
ABS	4 FT.	10 FT.
PVC (TYPE DWV)	4 FT.	10 FT.
CAST-IRON (<10 FT. PIPE SECTIONS)	5 FT.	15 FT.
CAST-IRON (10 FT. PIPE SECTIONS)	10 FT.	15 FT.

10. ALL PLUMBING FIXTURES SHALL BE VENTED AND THE MAXIMUM DISTANCE FROM THE FIXTURE TRAP TO THE VENT SHALL BE AS FOLLOWS:

TRAP SIZE	SLOPE	DISTANCE
1¼"	¼" PER FT.	2'-6"
1½"	¼" PER FT.	3'-6"
2"	¼" PER FT.	5'-0"
3"	⅛" PER FT.	6'-0"
4" & LARGER	⅛" PER FT.	10'-0"

11. ALL PLUMBING VENTS THROUGH THE ROOF SHALL TERMINATE A MINIMUM OF 12 INCHES ABOVE THE ROOF AND SHALL BE LOCATED A MINIMUM OF 8 FT. FROM ANY PARAPET WALL. WHERE A VENT TERMINATES WITHIN 8 FT. OF A PARAPET WALL, THE VENT SHALL TERMINATE A MINIMUM OF 6 INCHES ABOVE THE PARAPET.
12. ALL PLUMBING VENTS SHALL TERMINATE A MINIMUM OF 10 FT. HORIZONTALLY FROM ANY OUTDOOR AIR INTAKE. WHERE A PLUMBING VENT IS LOCATED WITHIN 10 FT. OF AN INTAKE, THE VENT SHALL TERMINATE A MINIMUM OF 2 FT. ABOVE THE INTAKE.
13. ALL SIDE WALL VENT TERMINATIONS SHALL BE PROTECTED TO PREVENT BIRDS OR RODENTS FROM ENTERING OR BLOCKING THE VENT OPENING.
14. ALL FLOOR DRAINS THAT DO NOT SERVE EQUIPMENT SHALL BE PROTECTED AGAINST DRYING OUT EITHER THROUGH THE INSTALLATION OF A TRAP PRIMER, DEEP SEAL TRAP OR PROSET TRAP GUARD. ALL TRAPS SHALL BE FILLED WITH AN INITIAL LAYER OF COOKING OIL.
15. ALL APPLIANCES SHALL DRAIN TO AN APPROVED SANITARY WASTE RECEPTOR (FLOOR SINK OR FLOOR DRAIN WITH FUNNEL). INDIRECT DRAINAGE FROM AN APPLIANCE SHALL MAINTAIN AN AIR GAP BETWEEN THE PIPE OUTLET AND THE TOP OF THE RECEPTOR. THE MINIMUM DISTANCE BETWEEN THE PIPE OUTLET AND THE TOP OF THE RECEPTOR SHALL BE TWICE THE DIAMETER OF THE APPLIANCE DRAIN PIPE.

GREASE INTERCEPTORS:

1. SEE SITE PLAN FOR THE SIZE AND LOCATION OF THE GREASE INTERCEPTOR.
2. THE GREASE INTERCEPTOR SHALL BE INSTALLED IN A LOCATION THAT IS ACCESSIBLE FOR PUMPING.
3. THE GREASE INTERCEPTOR SHALL BE CONSTRUCTED OF FIBERGLASS OR ROTATIONALLY-MOLDED POLYETHYLENE. GREASE INTERCEPTOR CONSTRUCTION SHALL CONFORM TO ALL LOCAL CODES. CONCRETE GREASE INTERCEPTORS ARE NOT PERMITTED UNLESS REQUIRED BY THE LOCAL AHJ.
4. GREASE INTERCEPTORS SHALL BE GRAVITY OR HYDROMECHANICAL TYPE, SIZED FOR THE APPLICATION LISTED.
5. THE GREASE INTERCEPTOR SHALL BE VENTED.
6. ACCESS TO THE GREASE INTERCEPTOR SHALL BE PROVIDED WITH TWO (2) 24-IN. MANHOLES. COVER SHALL PROVIDE WATER/GAS-TIGHT SEAL AND HAVE A MINIMUM 16,000 LBS. LOAD CAPACITY. ALL SURFACE WATER MUST DRAIN AWAY FROM MANHOLES.
7. PIPING INLET AND OUTLET SIDES SHALL BE CLEARLY LABELED ON THE TOP OF THE GREASE INTERCEPTOR TO INSURE PROPER INSTALLATION.

DOMESTIC SUPPLY SYSTEMS:

1. THE INCOMING WATER SERVICE PIPE SHALL BE LOCATED A MINIMUM OF 10 FT. FROM THE EXITING SANITARY PIPE. WHERE A 10 FT. SEPARATION IS NOT POSSIBLE, THE BOTTOM OF THE WATER SERVICE PIPE SHALL BE A MINIMUM OF 12 IN. ABOVE THE TOP OF THE HIGHEST POINT OF THE SANITARY PIPE.
2. ALL UNDERGROUND SITE PLUMBING SHALL CONFORM TO NSF 61, SHALL BE TYPE K COPPER TUBING OR COPPER PIPE, POLYETHYLENE (PE), PEX OR CPVC. IF CPVC IS USED, FOAM INSULATION SHALL BE INSTALLED AT ALL CHANGES OF DIRECTION TO ACCOUNT FOR EXPANSION AND CONTRACTION.
3. INCOMING DOMESTIC WATER SIZE TO BE 2" INNER DIAMETER. FOR PROJECTS WISHING TO DOWNSIZE, A HYDRANT FLOW TEST IS REQUIRED PRIOR TO CONSTRUCTION DOCUMENTS. ENGINEER OF RECORD TO SUBMIT PRESSURE DROP CALCULATIONS AND HYDRANT FLOW TEST TO USRD FOR REVIEW AND APPROVAL OF SMALLER INCOMING DOMESTIC WATER LINE.
4. IF PEX PIPING IS USED, ALL MAINS SHALL BE UPSIZED BY 0.5" DIAMETER.
5. INCOMING WATER SERVICE PRESSURE SHOULD BE BETWEEN 50 AND 55 PSI STATIC. WHERE WATER PRESSURE SERVICE EXCEEDS 80 PSI STATIC, AN APPROVED WATER-PRESSURE REDUCING VALVE WITH STRAINER CONFORMING TO ASSE 1003 SHALL BE INSTALLED. WHERE INCOMING WATER PRESSURE IS BELOW 50 PSI STATIC, A PRESSURE BOOSTER SYSTEM SHALL BE INSTALLED.
6. IF THE RESTAURANT HAS A COMBINED WATER AND FIRE SPRINKLER SERVICE, THE INCOMING WATER SERVICE SHALL BE SIZED BASED ON THE FIRE SPRINKLER CONTRACTOR'S HYDRAULIC CALCULATIONS.
7. PROVIDE A MINIMUM ½" ANNULAR CLEARANCE AROUND ALL PIPE SLAB PENETRATIONS.
8. A REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER (RPZ) SHALL BE INSTALLED AT THE INCOMING SERVICE WHERE REQUIRED BY CODE. (MIN. 60" A.F.F.)
9. AN EXPANSION TANK SHALL BE INSTALLED ON THE COLD WATER LINE INLET TO THE WATER HEATER. SEE EXPANSION TANK SCHEDULE.
10. ALL WATER SUPPLY PIPE WITHIN 5 FT. OF THE BUILDING AND INSIDE THE BUILDING SHALL COMPLY WITH NSF 61 AND SHALL BE TYPE L COPPER TUBING, COPPER PIPE, PEX OR CPVC PIPE.
11. CPVC PIPE SHALL BE FLOWGUARD GOLD OR FLOWGUARD BENDABLE AS MANUFACTURED BY LUBRIZOL.
12. CPVC PIPE SHALL BE CONNECTED WITH FLOWGUARD GOLD YELLOW LOW-VOC SOLVENT CEMENT AS MANUFACTURED BY IPS WELD-ON OR OATEY.
13. ALL CPVC PIPE SHALL BE INSULATED TO PREVENT EXPOSURE TO GREASE.
14. ALL SUSPENDED PIPE SHALL BE SUPPORTED AS FOLLOWS:

MATERIAL	MAX. HORIZ. SPACING	MAX. VERT. SPACING
COPPER PIPE	12 FT.	10 FT.
COPPER TUBING ≤1¼"	6 FT.	10 FT.
COPPER TUBING >1½"	10 FT.	10 FT.
CPVC ≤1"	3 FT.	10 FT.
CPVC ≥1¼"	4 FT.	10 FT.
PEX ≤1"	3 FT.	10 FT.
PEX ≥1¼"	4 FT.	10 FT.

15. A REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER (RPZ) SHALL BE INSTALLED AT THE INLET TO THE WATER FILTRATION SYSTEM. ALL PIPING DOWNSTREAM OF THE RPZ SHALL BE COPPER OR CROSS-LINKED POLYETHYLENE (PEX).
16. ALL DEVICES, APPLIANCES, AND APPARATUS INTENDED TO SERVE SOME SPECIAL FUNCTION (EX.: SODA MACHINE, COFFEE MACHINE, BEVERAGE DISPENSERS, ETC.) SHALL BE PROVIDED WITH PROTECTION AGAINST BACKFLOW AND CONTAMINATION OF THE WATER SUPPLY SYSTEM. ALL BACKFLOW PREVENTION DEVICES SHALL BE ASSE LISTED AND APPROVED FOR THE DEVICE OR APPLIANCE THEY SERVE.
17. ALL WATER SUPPLY LINES SHALL BE PROVIDED WITH A QUARTER-TURN SHUT-OFF VALVE BEFORE FINAL CONNECTION TO EQUIPMENT.
18. QUARTER-TURN SHUT-OFF VALVES SHALL BE INSTALLED UPSTREAM OF ANY INLINE BACKFLOW PREVENTION DEVICE.
19. ALL VALVES AND BACKFLOW PREVENTION DEVICES SHALL BE INSTALLED WITH FITTINGS THAT FACILITATE REMOVAL IN CASE OF FAILURE.
20. ALL OVERHEAD WATER LINES SHALL BE INSULATED PER SCHEDULE THIS SHEET WITH EXTERNAL JACKETED INSULATION AND A MINIMUM INSTALLED R-VALUE OF 3.7.
21. PRIOR TO BUILDING TURNOVER, THE DOMESTIC WATER SUPPLY SYSTEM SHALL BE PURGED OF DELETERIOUS MATERIAL AND DISINFECTED. DISINFECTION SHALL BE DONE IN ACCORDANCE WITH THE LOCAL HEALTH CODE, PLUMBING CODE OR IN ACCORDANCE WITH AWWA C651 OR AWWA C652.

STORM DRAINAGE SYSTEMS:

1. ALL ROOF DRAINS SHALL BE SIZED IN ACCORDANCE WITH LOCAL CODES AND SHALL CONFORM TO ASME A112.21.2M OR A112.3.1.
2. ALL STORM DRAINAGE PIPING SHALL BE ABS, PVC TYPE DWV OR CAST-IRON WHERE REQUIRED BY CODE.
3. ALL SUSPENDED STORM DRAINAGE PIPE SUPPORT REQUIREMENTS SHALL BE THE SAME AS THE SANITARY AND VENT REQUIREMENTS.
4. ALL HORIZONTAL STORM DRAINAGE PIPE PITCH REQUIREMENTS SHALL BE THE SAME AS THE SANITARY AND VENT REQUIREMENTS.
5. ALL HORIZONTAL STORM DRAINAGE PIPE SHALL BE INSULATED WITH 1" THICK EXTERNAL JACKETED INSULATION AND A MINIMUM INSTALLED R-VALUE OF 3.7 TO PROTECT AGAINST CONDENSATION.
6. CLEANOUTS SHALL BE INSTALLED IN ALL HORIZONTAL DRAINAGE PIPE AND SHALL BE LOCATED NOT MORE THAN 100 FT. APART.
7. CLEANOUTS SHALL BE INSTALLED AT ALL CHANGES OF DIRECTION GREATER THAN 45 DEGREES. WHERE MORE THAN ONE CHANGE OF DIRECTION OCCURS IN A SINGLE PIPE RUN, ONLY ONE (1) CLEANOUT SHALL BE REQUIRED FOR EVERY 40 FEET OF DEVELOPED LENGTH.
8. CLEANOUTS SHALL BE INSTALLED ON PIPES PRIOR TO ANY SLAB PENETRATION.
9. WHERE PIPING IS LOCATED WITHIN WALL CAVITIES, ACCESS TO THE CLEANOUTS SHALL BE PROVIDED.
10. ROOF DRAINS AND OVERFLOW ROOF DRAINS SHALL BE PIPED INDEPENDENTLY. OVERFLOW ROOF DRAINS SHALL NOT BE CONNECTED TO THE PRIMARY ROOF DRAINAGE SYSTEM.
11. MINIMUM PIPING INSULATION THICKNESS HEATING AND HOT-WATER SYSTEMS (STEAM, STEAM CONDENSATE, HOT-WATER HEATING AND DOMESTIC WATER SYSTEMS). PLEASE REFER TO THE LATEST EDITION OF IECC FOR MINIMUM PIPE INSULATION THICKNESS (TABLE C403.12.3)

PIPING	MINIMUM INSULATION THICKNESS (IN INCHES) PER NOMINAL PIPE OR TUBE SIZE				
NOMINAL PIPE SIZE	<1	1 TO 1.5	1.5 TO <4	4 TO <8	≥8
DOMESTIC COLD WATER (40°F TO 60°F)	0.5	0.5	1.0	1.0	1.0
TEMPERATE HOT WATER (105°F TO 140°F)	1.0	1.0	1.5	1.5	1.5
HOT WATER (141°F TO 200°F)	1.5	1.5	2.0	2.0	2.0
STORM DRAIN (HORIZONTAL)	–	–	1.0	1.0	1.0

LEGEND

	COLD WATER PIPING
	TEMPERED WATER PIPING (110°F)
	HOT WATER PIPING (140°F)
	RECIRCULATED HOT WATER PIPING
	OVERHEAD LINES (BY P.C.)
SAN	UNDERGROUND SANITARY PIPING
GW	UNDERGROUND GREASE WASTE PIPING
	VENT PIPING
STS	ABOVE GROUND STORM PIPING
STS	UNDERGROUND STORM PIPING
	HOSE BIBB
	CHECK VALVE
	BALL VALVE
	THERMOSTATIC MIXING VALVE
	FLOOR DRAIN
	CLEAN-OUT (FLOOR OR YARD)
	FLOOR SINK
	PRESSURE GUAGE
L	LOW PRESSURE SWITCH
H	HIGH PRESSURE SWITCH
S	SOLENOID VALVE
	THREE-WAY VALVE
	PRESSURE REGULATOR
	DUAL CHECK VALVE OR RPZ
	DUAL CHECK VALVE WITH ATMOSPHERIC VENT
	STRAINER
	RELIEF VENT
	WATER-HAMMER ARRESTER

ABBREVIATIONS

ACM	AREA CONSTRUCTION MANAGER
AVB	ATMOSPHERIC VACUUM BREAKER
BSI	BEVERAGE SYSTEM INSTALLER
CO	CLEAN-OUT
DC	DOWNSPOUT COVER
DFU	DRAINAGE FIXTURE UNIT(S)
EC	ELECTRICAL CONTRACTOR
FAC	FIRE ALARM CONTRACTOR
FCO	FLOOR CLEAN-OUT
FD	FLOOR DRAIN
FPC	FIRE PROTECTION CONTRACTOR
FS	FLOOR SINK
GC	GENERAL CONTRACTOR
GI	GREASE INTERCEPTOR
GPF	GALLONS PER FLUSH
GPM	GALLONS PER MINUTE
GW	GREASE WASTE
HS	HAND SINK
I.P.S.	IRON PIPE SIZE (ALSO NPS)
KEI	KITCHEN EQUIPMENT INSTALLER
KES	KITCHEN EQUIPMENT SUPPLIER
LAV	LAVATORY
MC	MECHANICAL CONTRACTOR
MHT	MALE HOSE THREADS
MS	MOP SINK
NPS	NATIONAL PIPE THREAD STANDARD
NPT	NATIONAL PIPE THREAD TAPERED
O/O	OWNER/OPERATOR
OH	OVERHEAD
P	PUMP
PC	PLUMBING CONTRACTOR
RC	REFRIGERATION CONTRACTOR
RPZ	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER
SS	SANITARY SEWER
ST STS	STORM SEWER (PRIMARY) STORM SEWER (SECONDARY)
SVB	ANTI-SIPHON, SPILL RESISTANT VACUUM BREAKER
TAB	TEST AND BALANACE CONTRACTOR
UG	UNDERGROUND
UR	URINAL
V	VENT
WC	WATER CLOSET
WCO	WALL CLEAN-OUT
WSFU	WATER SUPPLY FIXTURE UNIT(S)
YC	YARD CLEAN-OUT

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LICENSE EXPIRATION: APR 30, 2027

JOSEPH G. THOMAS LICENSED 16129 KANSAS PROFESSIONAL ENGINEER

DATE ISSUED: JUN 22, 2026

STATE ID: 150404
PROJECT #: 26-028
NATIONAL #: 44655
DRAWN BY: SC
CHECKED BY: JT

DATE:
04/08/26 - PERMIT / BID SET

REVISIONS
1 05/07/26 - QC COMMENTS/ADA UPDATE
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CLIENT
McDonald's USA, LLC

PROTOTYPE
BB20 4584 WW-HB
ISSUE DATE 02/25

ADDRESS
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LEAVENWORTH, KS 66048

SHEET TITLE
GENERAL NOTES

SHEET NUMBER:
P4.0

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COORDINATION SCHEDULE

GENERAL REQUIREMENTS	FURNISH	INSTALL	FINAL CONNECTION	NOTES
MECHANICAL PERMIT	MC			1–3
HOT WORK (WELDING) PERMIT (IF APPLICABLE)	MC			1–3
REFRIGERATION PERMIT (IF APPLICABLE)	KES			1–3
PLUMBING PERMIT	PC			1–3
ELECTRICAL PERMIT	EC			1–3
FIRE SPRINKLER PERMIT (IF APPLICABLE)	FPC			1–3
FIRE ALARM PERMIT (IF APPLICABLE)	FAC			1–3
CONTRACTOR COORDINATION REQUIREMENTS				
HEATING & AIR–CONDITIONING				
ROOFTOP UNITS, INTAKE AND RELIEF	MCD CP	MC		1–5, 17, 22
ROOF CURBS	MCD CP	MC		1–3, 20, 22
GAS PIPING AND GAS PIPE KIT	PC	PC	PC	1–3, 14, 22–23
CONTROLS WIRING	MC	EC	EC	1–3, 19, 22, 24
POWER WIRING	EC	EC	EC	1–3, 19, 22, 24
CONDENSATE TRAP	MC	PC		1–3, 22–23
CONDENSATE PIPING (IF APPLICABLE)	PC	PC		1–3, 22–23
DUCT–MOUNTED SMOKE DETECTOR	MC	MC	EC	1–3, 22, 24
GENERAL EXHAUST SYSTEMS				
EXHAUST FANS	MCD CP	MC		1–3, 17, 22
ROOF CURBS	MCD CP	MC		1–3, 22
CONTROLS (WHERE APPLICABLE)	MC	EC	EC	1–3, 22, 24
POWER WIRING	EC	EC	EC	1–3, 22, 24
TEMPERATURE CONTROLS				
BUILDING AUTOMATION SYSTEM	MCD CP	MC	EC	1–3, 22, 24
REMOTE SENSORS (RH AND/OR TEMPERATURE)	MC	MC	EC	1–3, 22, 24
CONTROLS WIRING (WHERE APPLICABLE)	MC	EC	EC	1–3, 22, 24
POWER WIRING	EC	EC	EC	1–3, 22, 24
DUCTWORK AND ACCESSORIES				
GALVANIZED SHEET METAL DUCTWORK	MC	MC		1–3, 22
EXTERNAL INSULATION	MC	MC		1–3, 22
INTERNAL INSULATION (IF APPLICABLE)	MC	MC		1–3, 22
WEATHERPROOFING (IF APPLICABLE)	MC	MC		1–3, 22
SPIN–IN COLLARS	MC	MC		1–3, 22
FLEXIBLE DUCTWORK	MC	MC		1–3, 22
VOLUME/BALANCING DAMPERS	MC	MC		1–3, 22
FIRE DAMPERS (IF APPLICABLE)	MC	MC		1–3, 22
FIRESTOPPING (IF APPLICABLE)	MC	MC		1–3, 22
AIR DEVICES AND ACCESSORIES	MC	MC	MC	1–3, 7, 22, 28
PLUMBING SYSTEMS				
WATER HEATERS	MCD CP	PC	PC	1–3, 11–12, 23
HOT AND COLD WATER PIPE	PC	PC	PC	1–3, 23
VENTS AND INTAKES	PC	PC	PC	1–3, 23
THERMOSTATIC MIXING VALVE	PC	PC	PC	1–3, 23
POWER AND CONTROL WIRING	EC	EC	EC	1–3, 23–24
KITCHEN EXHAUST SYSTEMS				
McDONALD'S BACKSHELF EXHAUST HOODS	KES	KEI		1–3, 6, 22, 27
CANOPY EXHAUST HOODS (IF APPLICABLE)	KES	KEI		1–3, 6, 22, 27
BLACK IRON DUCTWORK	KES	KEI		1–3, 6, 22
STAINLESS STEEL DUCTWORK (IF APPLICABLE)	KES	KEI		1–3, 6, 22
ALUMINUM DUCTWORK (IF APPLICABLE)	KES	KEI		1–3, 6, 22
UL LISTED DUCT WRAP	MC	MC		1–3, 6, 22
FIRE–RATED DUCT ENCLOSURE (IF APPLICABLE)	GC	GC		1–3, 6, 20, 22
EXHAUST FANS	MCD CP	MC		1–3, 6, 17, 22
ROOF CURBS	MCD CP	MC		1–3, 6, 20, 22
CURB EXTENSIONS	MC	MC		1–3, 6, 22
CONTROLS (WHERE APPLICABLE)	EC	EC	EC	1–3, 6, 22, 24
POWER WIRING	EC	EC	EC	1–3, 6, 22, 24
FIRE SUPPRESSION SYSTEM	KES	KES	KES	1–3, 16, 22, 27
KITCHEN EQUIPMENT				
COOLER/FREEZER	KES	GC		1–3, 27
EVAPORATOR COILS	KES	MC		1–3, 27
CONDENSATE PIPING	PC	PC	PC	1–3, 23, 27
REMOTE CONDENSING UNIT (MAC)	KES	MC		1–3, 22, 27
ROOF CURBS	MC	MC		1–3, 22
REFRIGERANT PIPING	KES	MC	MC	1–3, 22, 27
POWER WIRING	EC	EC	EC	1–3, 22, 24, 27
CONTROL WIRING	EC	EC	EC	1–3, 24, 27
PIPE PORTALS	MC	MC		1–3, 22
ICE MACHINES	KES	KEI		1–3, 27
WATER SUPPLY PIPING	KES	KEI	BSI	1–3, 27
REMOTE CONDENSING UNITS	KES	MC		1–3, 22, 27
ROOF CURBS	MC	MC		1–3, 22, 27
REFRIGERANT PIPING	KES	MC	MC	1–3, 22, 27
POWER WIRING	EC	EC	EC	1–3, 22, 24, 27
CONTROL WIRING	KES	EC	EC	1–3, 24, 27
PIPE PORTALS	MC	MC		1–3, 22
GRILLS	KES	KES		1–3, 27
GAS PIPING (IF APPLICABLE)	PC	PC	PC	1–3, 23, 27
POWER WIRING	EC	EC	EC	1–3, 24, 27
CONTROL CABLE (6' CLAMSHELL ONLY)	MC	EC	EC	1–3, 23, 24, 27
FRYERS	KES	KES		1–3, 27
GAS PIPING (IF APPLICABLE)	PC	PC	PC	1–3, 23, 27
POWER WIRING	EC	EC	EC	1–3, 24, 27
3–COMPARTMENT SINK	KES	KES		1–3, 12, 27
FAUCETS AND PRE–RINSE SPRAYER	KES	KES		1–3, 27
WATER SUPPLY PIPING	PC	PC	PC	1–3, 23, 27
SANITARY DRAIN PIPING	PC	PC	PC	1–3, 23, 27
HAND SINKS	MCD CP	PC		1–3, 23, 27
FAUCET	MCD CP	PC		1–3, 23, 27
WATER SUPPLY PIPING	PC	PC	PC	1–3, 23, 27
SANITARY DRAIN PIPING	PC	PC	PC	1–3, 23, 27
VEGETABLE SINK	KES	KES		1–3, 23, 27
FAUCET	KES	KES		1–3, 23, 27
WATER SUPPLY PIPING	PC	PC	PC	1–3, 23, 27
SANITARY DRAIN PIPING	PC	PC	PC	1–3, 23, 27
WASHING MACHINE	KES	KES		1–3, 23, 27
WATER SUPPLY PIPING	PC	PC	PC	1–3, 23, 27
SANITARY DRAIN PIPING	PC	PC	PC	1–3, 23, 27
WARE WASHER	KES	KES		1–3, 23, 27
WATER SUPPLY PIPING	PC	PC	PC	1–3, 23, 27
SANITARY DRAIN PIPING	PC	PC	PC	1–3, 23, 27
MISCELLANEOUS ITEMS				
FIRE SPINKLER SYSTEMS	FPC	FPC	FPC	1–3, 15, 25
HVAC EQUIPMENT START–UP	MC			1–3, 22
TEST, ADJUST AND BALANCE HVAC SYSTEMS	TAB			1–3, 22
DOOR GRILLES (IF APPLICABLE)	MC	GC		1–3, 20, 22
ROOF/WALL OPENINGS	GC			1–3, 20–24
APPLIANCE BACKFLOW PREVENTION	KES/BSI	PC	PC	1–3, 23, 27
CO2 DETECTION SYSTEM	KES/BSI	EC/BSI	EC/BSI	1–3, 22, 27

NOTES:

1. THIS SCHEDULE IS INTENDED AS A GUIDE FOR THE WORK TO BE PERFORMED. ALL WORK SHALL BE COORDINATED BETWEEN THE McDONALD'S AREA CONSTRUCTION MANAGER AND ALL GC AND O/O SUBCONTRACTORS.
2. ONE (1) COPY OF THE DECOR PACKAGE DRAWINGS SHALL BE SUPPLIED TO THE GENERAL CONTRACTOR AND EACH OF THE SUBCONTRACTORS. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND THE SUBCONTRACTORS TO INSURE THAT THEY HAVE RECEIVED THE DECOR PACKAGE DRAWINGS.
3. FOR ANY WORK NOT CLARIFIED IN THIS SCHEDULE OR IN THE NOTES AND SPECIFICATIONS, PLEASE CONSULT THE McDONALD'S CONSTRUCTION MANAGER FOR SCOPE OF WORK.
4. ALL ROOFTOP UNIT EQUIPMENT SUPPLIED BY THE MECHANICAL CONTRACTOR AND THE KITCHEN EQUIPMENT SUPPLIER SHALL BE ON SITE AT THE SAME TIME FOR A SINGLE CRANE LIFT. EQUIPMENT SITE ARRIVAL DATE SHALL BE COORDINATED BETWEEN THE CONSTRUCTION MANAGER, MECHANICAL CONTRACTOR AND KITCHEN EQUIPMENT SUPPLIER.
5. ALL ROOFTOP UNITS INSTALLED IN McDONALD'S RESTAURANTS SHALL BE HIGH EFFICIENCY EQUIPMENT. THE INSTALLATION OF STANDARD EFFICIENCY ROOFTOP UNITS IS PROHIBITED. PLEASE REFER TO THE LATEST EDITION OF IECC FOR HVAC EQUIPMENT PERFORMANCE REQUIREMENTS.
6. ALL KITCHEN EQUIPMENT REQUIRING EXHAUST SHALL BE INSTALLED IN ACCORDANCE WITH THESE PLANS. ANY VARIATION FROM THESE PLANS SHALL BE REPORTED TO THE CONSTRUCTION MANAGER AND THE ENGINEER–OF–RECORD.
7. WHERE GYPSUM BOARD CEILINGS ARE INSTALLED, THE MECHANICAL CONTRACTOR SHALL SUPPLY DRYWALL MOUNTING FRAMES FOR LAY–IN TYPE DIFFUSERS.
8. ALL WORK SHOWN ON P1.6 DRAWING(S) SHALL BE COMPLETED BY THE BEVERAGE SYSTEM INSTALLER (OR K.E.S.) UNLESS OTHERWISE NOTED IN THE PLUMBING DRAWINGS.
9. ALL WORK ON P1.0 & P1.2 DRAWING(S) SHALL BE BY THE PLUMBING CONTRACTOR.
10. THE BEVERAGE SYSTEM INSTALLER FURNISHES, RUNS AND CONNECTS ALL FLEXIBLE WATER AND SYRUP LINES FOR ALL AFFECTED EQUIPMENT INCLUDING THE FOLLOWING:
    A. HOT CHOCOLATE
    B. COFFEE BREWER
    C. ICE MACHINE
    D. O.J.
    E. SODA TOWERS
11. ALL WATER HEATERS INSTALLED IN McDONALD'S RESTAURANTS SHALL BE HIGH EFFICIENCY SEALED–COMBUSTION WATER HEATERS. THE INSTALLATION OF STANDARD EFFICIENCY GRAVITY–VENTED WATER HEATERS IS PROHIBITED. PLEASE REFER TO THE LATEST EDITION OF IECC FOR SERVICE WATER–HEATING EQUIPMENT PERFORMANCE EFFICIENCY REQUIREMENTS.
12. THE CONSTRUCTION MANAGER, PLUMBING CONTRACTOR AND KITCHEN EQUIPMENT SUPPLIER SHALL COORDINATE WHICH SOILED DISHWASHER (3–COMPARTMENT SINK) IS BEING INSTALLED IN THE RESTAURANT.
13. ALL GAS PIPING FOR COOKING EQUIPMENT SHALL TERMINATE IN THE CEILING PRIOR TO THE INSTALLATION OF THE PIPING CHASE. UPON INSTALLATION OF THE CHASE, THE GAS PIPING SHALL THEN BE CONTINUED IN THE CHASE FOR FINAL CONNECTION TO THE APPLIANCE.
14. ALL GAS PIPING FOR ROOFTOP EQUIPMENT SHALL BE BROUGHT UP THROUGH THE BASE OF THE UNIT TO MINIMIZE ROOF PENETRATIONS. WHERE THIS IS NOT POSSIBLE, THE PLUMBING CONTRACTOR SHALL PROVIDE THE NECESSARY PIPE PORTALS ON ROOF.
15. ALL FIRE PROTECTION DRAWINGS CONTAINED WITHIN THIS SET ARE STRICTLY FOR REFERENCE ONLY. FIRE SPRINKLER DRAWINGS SHALL BE DESIGNED AND PERMITTED BY A FIRE PROTECTION CONTRACTOR.
16. ALL R–102 WET CHEMICAL FIRE SUPPRESSION SYSTEMS FOR TYPE I HOODS SHALL BE DESIGNED AND INSTALLED BY A LOCAL ANSUL AGENT. THE USE OF DRY CHEMICAL SYSTEMS IS PROHIBITED. THE LOCAL ANSUL AGENT CONTRACT IS HANDLED THROUGH THE KITCHEN EQUIPMENT SUPPLIER.
17. ALL ROOFTOP UNITS AND EXHAUST FANS ARE SUPPLIED WITH A FACTORY–INSTALLED DISCONNECT SWITCH.
18. ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT SWITCHES FOR REMOTE CONDENSING UNITS.
19. ALL ELECTRICAL CONDUITS FOR ROOFTOP EQUIPMENT SHALL BE BROUGHT UP THROUGH THE BASE OF THE UNIT TO MINIMIZE ROOF PENETRATIONS. WHERE THIS IS NOT POSSIBLE, THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE NECESSARY PIPE PORTALS ON ROOF.
20. WALK–IN COOLER AND WALK–IN FREEZER REFRIGERATION SYSTEMS SHALL MEET THE PERFORMANCE REQUIREMENTS OUTLINED IN THE LATEST EDITION OF IECC. MINIMUM ANNUAL WALK–IN ENERGY FACTOR (AWEF) PROVIDED BY EQUIPMENT MANUFACTURER IS DETERMINED IN ACCORDANCE WITH AHRI 1250.
21. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
22. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
23. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
24. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
25. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
26. SEE FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.
27. SEE FIRE ALARM DRAWINGS FOR ADDITIONAL INFORMATION.
28. SEE KITCHEN DRAWINGS FOR ADDITIONAL INFORMATION.
29. SEE DECOR DRAWINGS FOR ADDITIONAL INFORMATION.

PUMP SCHEDULE

TAG	MANUFACTURER	MODEL	HP	V	Ø	Hz	ACCESSORIES
P–1	GRUNDFOS	UP 15–18 B7	1/25	120	1	60	1–3

ACCESSORIES:
1. TIMECLOCK
2. AQUASTAT
3. CHECK VALVE

NOTES:
1. SEE ELECTRICAL DRAWINGS FOR TIMECLOCK WIRING
2. DESIGN: 2 GPM, 7 FT. HEAD
3. SEE DETAIL 6 ON DRAWING P3.0

EXPANSION TANK SCHEDULE

TAG	MANUFACTURER	MODEL	TOTAL VOL.	CONNECTION	ACCESSORIES
ET–1	AMTROL	ST–12	4.4 GAL.	¾"	–

NOTES:
1. SEE DETAIL 6 ON DRAWING P3.0

BACKFLOW PREVENTER SCHEDULE

TYPE	MFR.	MODEL	ASSE LISTING	SERVES	LOCATION
AG	FURN. WITH CHEM. SYS.		1055B	CHEMICAL SYSTEM	DIN. RM.–MOP SINK
AG	FURN. WITH CHEM. SYS.		1055B	CHEMICAL SYSTEM	KITCHEN–MOP SINK
AVB	FURN. WITH CHEM. SYS.		1001	CHEMICAL SYSTEM	SUPP. RM.–3–COMP
AVB	FURN. WITH FAUCET		–	MOP SINK FAUCET	SEE DRAWINGS
VB	FURN. WITH HB		1011	WALL HYDRANT	SEE DRAWINGS
DCV	FURN. WITH HB		1052	YARD HYDRANT	TRASH CORRAL
DCV	FURN. WITH HB		1052	ROOF HYDRANT	ROOF
DCV	WATTS	SD–3	1022	SODA TOWERS AND SPEC. COFFEE	
RPZ	WILKINS	375XL–SXL–AG	1013	INCOMING WATER	SUPPORT ROOM
RPZ	WILKINS	375XL–AG	1013	FILTRATION SYSTEM	SUPPORT ROOM

WATER HEATER SCHEDULE

TAG	MANUFACTURER	MODEL	SIZE GAL.	HEATING TYPE	HEATING MBH	RECOV. 100°F ΔT GPH	ELECTRICAL VOLTS	Ø	Hz	F.L.A.
WH–1	BRADFORD–WHITE	EF–100T–199E–3N	100	GAS	199	239	120	1	60	<20

ACCESSORIES:
1. CONCENTRIC VENT KIT.

NOTES:
1. MINIMUM THERMAL EFFICIENCY 97%

VALVE SCHEDULE

MANUFACTURER	MODEL	TEMP. SETTING	LISTING	SERVES
WATTS	LFMMV	110°F	ASSE 1017,1069,1070	CHEMICAL SYSTEM MIXING
WATTS	LFMMV	104°F	ASSE 1017,1069,1070	LAVS & HAND SINKS MIXING
ZURN	ZW3870XLT	104°F		
WATTS	LFUSG–B	110°F	ASSE 1016, 1070	VEGETABLE PREP. SINK MIXING
B & G	CB–1/2	–	–	RECIRC. SYSTEM BALANCING VALVE
NIBCO	585–70–HC	–	–	CHEMICAL SYSTEM SHUT–OFF
NIBCO	S–FP–600A–LF	–	–	RESTROOM SHUT–OFF
NIBCO	S–FP–600A–LF	–	–	COMBI OVEN WATER SHUT OFF
WATTS	LFFBV–PEX	–	–	COMBI OVEN RO WATER SHUT OFF

INTERCEPTOR SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL	ACCESSORIES	NOTES
GI–1	EXTERIOR GREASE INTERCEPTOR	SCHIER PRODUCTS	GB–500	6" INLET, 6" OUTLET	1–3
		ZURN – GREEN TURTLE	PROCEPTOR MODEL GMC1300–UPC	6" INLET, 6" OUTLET	1–2, 4

NOTES:
1. SEE GREASE INTERCEPTOR NOTES AND ACCESSORIES ON DRAWING P4.0
2. GREASE INTERCEPTOR IS SIZED FOR CITY SEWER APPLICATIONS ONLY. DO NOT USE FOR SEPTIC FIELDS.
3. FOR SCHIER HYDROMECHANICAL GREASE INTERCEPTOR ORDERING, CONTACT: LEE FLASHER, HUGHES SUPPLY, DIRECT LINE: (407) 509–7626, OR E–MAIL: MCDCOORD@HAJOCA.COM
4. FOR ZURN PROCEPTOR ORDERING, CONTACT HUGHES SUPPLY, DIRECT LINE: (407) 244–7918, OR E–MAIL: MCDCOORD@HAJOCA.COM

PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL	WATER USE	ACCESSORIES/COMMENTS	
F–1	FAUCET FOR LAV–1	SLOAN	SF–2150	0.5 GPM (0.08 GAL/10 SEC CYCLE)	FAUCET OPERATION: SENSOR	
		ZURN	Z6950–XL–S–N–10S			
F–2	FAUCET FOR MS–1	ZURN	Z843M4		FAUCET OPERATION: MANUAL SEE DETAIL 2 ON DRAWING P3.0	5' VINYL HOSE WALL HOOK
FCO	6x6 FLOOR CLEAN OUT	ZURN	Z1400–SZ		SEE DRAWINGS FOR PIPE SIZES SEE NOTE 8	
		JAY R. SMITH	4040			
FD–1	6x6 FLOOR DRAIN WITH FUNNEL	ZURN	Z415–SZ1		PIPE SIZE: 3" STRAINER SIZE: 6" NICKEL BRONZE	FUNNEL: ZURN Z329 SEE NOTE 8
		JAY R. SMITH	3510–F25			
FD–2	6x6 FLOOR DRAIN	ZURN	Z415–SZ1		PIPE SIZE: 3" STRAINER SIZE: 6" NICKEL BRONZE	FUNNEL: NONE SEE NOTE 8
		JAY R. SMITH	2005			
FD–3	6x6 FLOOR DRAIN WITH FUNNEL	ZURN	Z415–SZ1		PIPE SIZE: 4" STRAINER SIZE: 6" NICKEL BRONZE	FUNNEL: ZURN Z329 SEE NOTE 8
		JAY R. SMITH	3510–F25			
FD–4	6x6 FLOOR DRAIN	ZURN	Z415–SZ1		PIPE SIZE: 4" STRAINER SIZE: 6" NICKEL BRONZE	FUNNEL: NONE SEE NOTE 8
		JAY R. SMITH	2005			
FS–1	12x12 FLOOR SINK WITH HALF–GRATE	ZURN	ZN1901		PIPE SIZE: 3" DOME STRAINER: ALUMINUM	GRATE: HALF – NICKEL–BRONZE SEE NOTE 8
		JAY R. SMITH	3435			
FS–2	8x8 FLOOR SINK WITH HALF–GRATE	ZURN	ZN1910		PIPE SIZE: 3" DOME STRAINER: ALUMINUM	GRATE: HALF – NICKEL–BRONZE SEE NOTE 8
		JAY R. SMITH	3415			
FS–3	8x8 FLOOR SINK	ZURN	ZN1910		PIPE SIZE: 3" DOME STRAINER: ALUMINUM	GRATE: FULL – NICKEL–BRONZE SEE NOTE 8
		JAY R. SMITH	3415			
HB–1	WALL HYDRANT	WOODFORD	B65		WALL CLAMP: ADJUSTABLE WALL THICKNESS: M/S = 9½" W/W = 13¾"	SEE NOTE 3
		ZURN	Z1320–EZ			
		JAY R. SMITH	5519			
HB–2	YARD HYDRANT	WOODFORD	S4H		SEE NOTES 4 & 9	
HB–3	ROOF HYDRANT	WOODFORD	RHY2–MS		(NO DRAIN REQUIRED)	
HS–1	STAINLESS STEEL HAND SINK	ADVANCE TABCO	7–PS–61		FAUCET: INCLUDED WITH SINK	SEE NOTES 6 & 10
HS–2	STAINLESS STEEL HAND SINK – ADA	ADVANCE TABCO	7–PS–26		FAUCET: INCLUDED WITH SINK	SEE NOTES 6 & 10
LAV–1	LAVATORY	KOHLER	K–2882–0		FAUCET: F–1 TRUEBRO LAVGUARD2 MODEL #102–E–Z CORIAN COUNTER BY G.C.	SEE NOTE 10 SEE DETAIL 3 ON P3.0 SEE NOTE 11
		SLOAN	SS3021			
MS–1	MOP SINK	FIELD FABRICATED	RECESSED – FLOOR		FAUCET: F–2 INCLUDES HOSE, HOSE BRACKET AND TWO (2) 24"Wx36"H WALL GUARDS SEE DETAIL 2 ON P3.0	
			(24x24x12)			
		ADVANCE TABCO	9–OP–24FM			
TD–1	TRENCH DRAIN	ZURN	Z886–DGC		CLASS A STAINLESS STEEL MESH SCREEN GRATE. NO–HUB BOTTOM OUTLET. BOTTOM DOME STRAINER. CLOSED END CAP	
UR–1	ADA WALL–HUNG URINAL	SLOAN	SU–1009	0.125 GPF	FLUSH VALVE: SLOAN SOLIS 8186 ZURN ZTR6203–ULF–LL ¾" I.P.S., 1" TOP SPUD	FLUSH VALVE OPERATION: SENSOR SEE NOTE 2
		ZURN	ZK5755.380.00			
		–	–			
WB–1	WALL BOX FOR WASHING MACHINE	SIOUX CHEF	696–2313		HAMMER ARRESTERS INCLUDED WITH BOX MOUNTING HEIGHT: 12" A.F.F.	SEE NOTE 7
WB–2	WALL BOX FOR WAREWASHER	SIOUX CHEF	696–2413MF		MOUNTING HEIGHT: 12" A.F.F.	SEE NOTE 7
WC–1	WATER CLOSET	SLOAN	ST–2009	1.28 GPF	FLUSH VALVE: SLOAN SOLIS 8111 ZURN ZTR6200EV–LL 1" I.P.S., 1½" TOP SPUD	FLUSH VALVE OPERATION: SENSOR SEAT: BEMIS MODEL 2155CT
		ZURN	AK5655.381.00.03.00			
		–	–			
WC–2	ADA WATER CLOSET	SLOAN	ST–2029 ADA	1.28 GPF	FLUSH VALVE: SLOAN SOLIS 8111 ZURN ZTR6200EV–CC–LL 1" I.P.S., 1½" TOP SPUD	FLUSH VALVE OPERATION: SENSOR SEAT: BEMIS MODEL 2155CT
		ZURN	ZK5655.4MC.00.03.00			
		–	–			
–	SOILED DISHTABLE (3–COMPARTMENT SINK)	–	–		ITEM: 151.46	SEE NOTE 7
–	VEGETABLE PREPARATION SINK	–	–		ITEM: 134.02	SEE NOTE 7
–	WAREWASHER	ECOLAB	XL–HTHH–VV		ITEM: 152.09 WALL BOX: WB–2	SEE NOTE 7. TIE ¼" HW INTO ECOLAB. SPLIT CW: ½" TO DTV, ⅜" TO VAPOR VENT
–	WASHING MACHINE	–	–		ITEM: 223.07 WALL BOX: WB–1	SEE NOTE 7
WHA	WATER–HAMMER ARRESTER	SIOUX CHEF	SERIES 650		–	SEE SHEET P1.2
ROOF DRAINS AND ACCESSORIES						
DC–1	OVERFLOW DOWNSPOUT COVER	ZURN	Z199–SS		SEE DRAWINGS FOR PIPE SIZES BIRD SCREEN	SEE NOTE 8
		JAY R. SMITH	1770–BS			
RD–1 THRU RD–4	COMBINATION MAIN ROOF AND OVERFLOW DRAIN	ZURN	Z165		SEE DRAWINGS FOR PIPE SIZES ROOF OPENING: 30"x14"	SEE NOTE 8

NOTES:
1. SEE McDONALD'S PROJECT MANUAL FOR ADDITIONAL MANUFACTURERS
2. PLUMBING CONTRACTOR SHALL COORDINATE WITH G.C. TO PROVIDE BLOCKING FOR PROPER URINAL SUPPORT
3. PLUMBING CONTRACTOR SHALL COORDINATE WITH G.C. TO PROVIDE INTERIOR BLOCKING ON W/W BUILDING FOR WALL CLAMP
4. YARD HYDRANT IS FOR TRASH CORRAL – SEE SITE PLAN FOR LOCATION
5. PLUMBING CONTRACTOR SHALL ROUTE ⅛" DRAIN PIPE FROM HOSE BIBB TO NEAREST FLOOR DRAIN OR FLOOR SINK
6. PLUMBING CONTRACTOR SHALL COORDINATE WITH G.C. TO PROVIDE BLOCKING FOR PROPER SINK SUPPORT
7. SEE KITCHEN DRAWINGS FOR ADDITIONAL INFORMATION – PLUMBING CONTRACTOR SHALL COORDINATE INSTALLATION WITH K.E.S.
8. PLUMBING CONTRACTOR SHALL SPECIFY CONNECTION MATERIAL/TYPE WHEN ORDERING
9. PLUMBING CONTRACTOR SHALL SPECIFY BURY DEPTH WHEN ORDERING
10. PLUMBING CONTRACTOR SHALL PROVIDE GRID DRAIN, P–TRAP AND VALVE STOPS FOR ALL SINKS & LAVS
11. FOR ALTERNATIVE LAVATORY OPTIONS, SUCH AS MOLDED SINKS OR DECK MOUNTED HAND DRYER, PLEASE CONTACT USRD OR HUGHES DIRECTLY.

TO ORDER PLUMBING FIXTURES, CONTACT HUGHES SUPPLY:
E–MAIL:
MCDCOORD@HUGHESSUPPLY.COM
OR MCDCOORD@HAJOCA.COM

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LICENSE EXPIRATION: APR 30, 2027

JOSEPH G. THOMAS LICENSED 16129 KANSAS PROFESSIONAL ENGINEER

DATE ISSUED: JUN 22, 2026

STATE ID: 150404
PROJECT #: 26-028
NATIONAL #: 44655
DRAWN BY: SC
CHECKED BY: JT

DATE:
04/08/26 - PERMIT / BID SET

REVISIONS
1. 05/07/26 - QC COMMENTS/ADA UPDATE
2. 06/22/26 - CITY COMMENTS / DECOR

CLIENT
McDonald's USA, LLC

PROTOTYPE
BB20 4584 WW-HB
ISSUE DATE 02/25

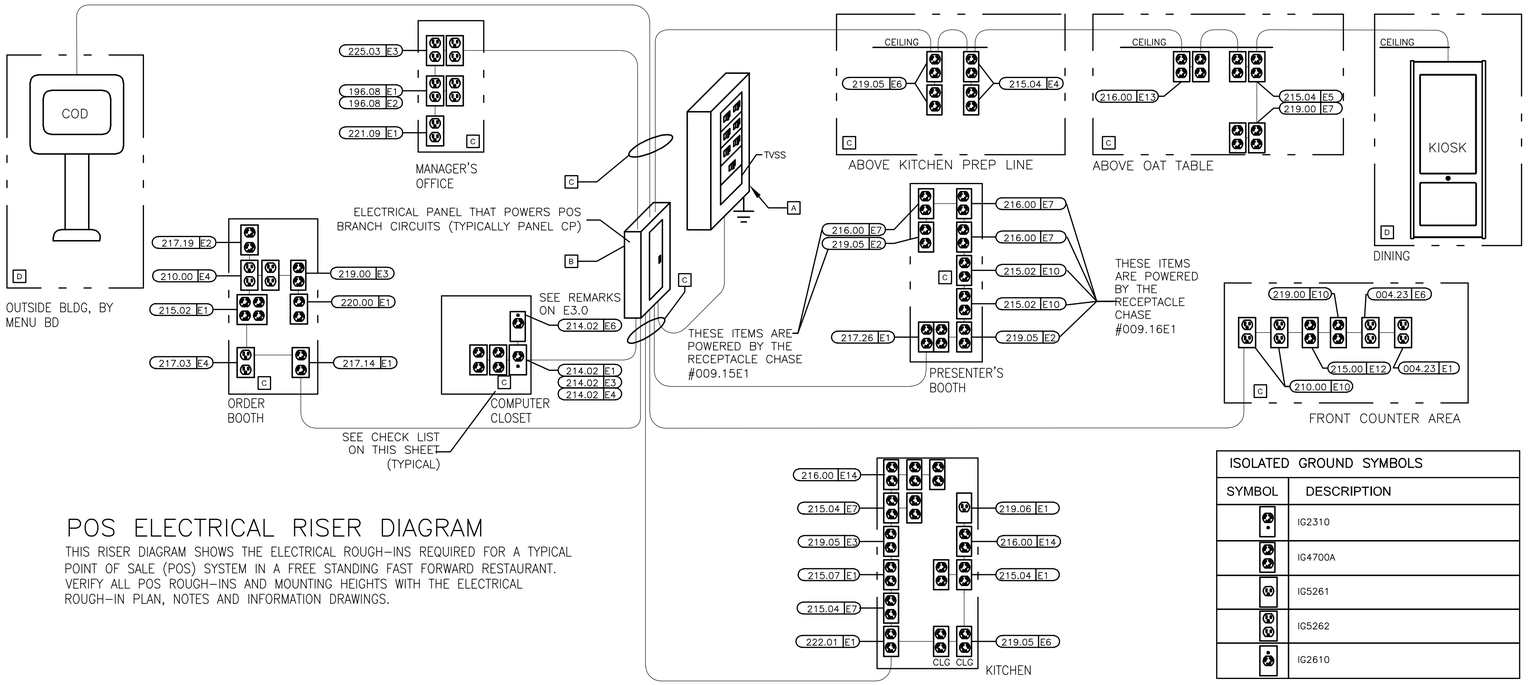
ADDRESS
707 1/2 METROPOLITAN AVE
LEAVENWORTH, KS 66048

SHEET TITLE
SCHEDULES

SHEET NUMBER:
P4.1

H:\26113\Dwg\PLUM.dwg, P4-1, 6/19/2026 10:42:08 AM, 1:1

THE PURPOSE OF THIS SHEET IS TO PROVIDE A CHECKLIST AND VISUAL GUIDE SO THE INSTALLING EC CAN VERIFY THE WORK IS IN COMPLIANCE WITH MCDONALD'S SPECIFICATIONS THAT ARE CRITICAL TO THE PROPER FUNCTIONING OF OUR POINT OF SALE (POS) COMPUTER SYSTEMS.



POS ELECTRICAL RISER DIAGRAM

THIS RISER DIAGRAM SHOWS THE ELECTRICAL ROUGH-INS REQUIRED FOR A TYPICAL POINT OF SALE (POS) SYSTEM IN A FREE STANDING FAST FORWARD RESTAURANT. VERIFY ALL POS ROUGH-INS AND MOUNTING HEIGHTS WITH THE ELECTRICAL ROUGH-IN PLAN, NOTES AND INFORMATION DRAWINGS.

ISOLATED GROUND SYMBOLS

SYMBOL	DESCRIPTION
	IG2310
	IG4700A
	IG5261
	IG5262
	IG2610

LOW VOLTAGE CABLE MANAGEMENT SPECIFICATION

GENERAL/MATERIALS

1. THE GC OR EC SHALL FURNISH AND INSTALL A COMPLETE LOW VOLTAGE CABLE MANAGEMENT SYSTEM UTILIZING CADDY-ERICO TYPE CAT-32 J-HOOK SUPPORTS (2-INCH DIAMETER LOOP MINIMUM). ALL J-HOOKS SHALL;
   - HAVE A MINIMUM BEARING SURFACE OF 1⅜",
   - HAVE FLARED EDGES TO PREVENT DAMAGE TO HIGH PERFORMANCE CABLES,
   - HAVE AN ELECTRO-GALVANIZED FINISH,
   - HAVE 3/8" WIDE CABLE RETAINING STRAPS,
   - BE UL LISTED AND LABELED,
   - BEAR THE UL SYMBOL MARKING ON THE PART FOR IDENTIFICATION
   - BE INSTALLED PER THE MANUFACTURERS' INSTALLATION INSTRUCTIONS.
2. THE ENTIRE INSTALLATION SHALL BE IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE (NEC), NEC SECTION 800, BICSI STANDARDS 568 & 569, ALL APPLICABLE NATIONAL, STATE, LOCAL, AND SAFETY CODES, AND McDONALD'S SPECIFICATIONS.

INSTALLATION

1. LOW VOLTAGE J-HOOK CABLE PATHWAY (FOR POS CABLING SYSTEM) SHALL BE PROVIDED FROM THE MANAGERS OFFICE (OR COMPUTER CLOSET) DATA CONDUIT STUB-UP LOCATION TO THE FOLLOWING DATA CONDUIT STUB-UP LOCATIONS (AS APPLICABLE):
   - FRONT COUNTER.
   - PRESENTERS BOOTH.
   - CASHIERS BOOTH.
   - THIRD DRIVE-THRU WINDOW(IF PRESENT).
   - CREW ROOM.
   - VALENCE WALL.
   - REMOTE ORDERING STATIONS.
   - NETPOP TELEPHONE PANEL LOCATION.
   - KIOSK
   - DIGITAL MERCHANDISER

   CABLE SUPPORTS SHALL BE PROVIDED WITHIN 24 INCHES OF THESE STUB-UP LOCATIONS. ALL STUB-UP CONDUITS SHALL BE PROVIDED WITH AN INSULATED BUSHING TO PROTECT CABLES DURING INSTALLATION.
2. THE LOCATION AND ROUTING OF THE LOW VOLTAGE CABLE MANAGEMENT SYSTEM SHALL BE COORDINATED WITH ALL OTHER CONSTRUCTION TRADES PRIOR TO INSTALLATION TO AVOID CONFLICTS WITH THE OTHER TRADES FINAL INSTALLATIONS, BOTH BEFORE AND AFTER THE CABLE MANAGEMENT SYSTEM AND THE POS CABLING ARE INSTALLED. FINAL INSTALLATION LOCATION SHALL BE READILY ACCESSIBLE TO ALLOW FOR EASE IN INSTALLATION OF THE POS CABLING BY THE POS VENDOR'S INSTALLER.
3. LOW VOLTAGE J-HOOK CABLE SUPPORTS AND APPURTENANCES SHALL BE FASTENED TO THE BUILDING STRUCTURAL AND/OR FRAMING MEMBERS. LOW VOLTAGE J-HOOK CABLE SUPPORTS SHALL NOT BE FASTENED OR UTILIZE THE CEILING GRID SUSPENSION WIRES OR T-BAR GRID FOR INSTALLATION. CONTRACTOR SHALL PROVIDE ALL NECESSARY BRACKETS, HANGERS, RODS, CLAMPS, FLANGES, SUPPORTS, ETC. FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM. THE INSTALLATION OF THE LOW-VOLTAGE CABLE MANAGEMENT SYSTEM SHALL BE DONE SO THAT THE ROUTING OF THE CABLES IS PARALLEL TO AND/OR PERPENDICULAR TO FRAMING AND STRUCTURAL BUILDING MEMBERS.
4. LOW VOLTAGE J-HOOK **CABLE SUPPORTS** SHALL BE INSTALLED A MAXIMUM OF 36 INCHES APART. AT TRANSITION LOCATIONS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL J-HOOKS TO ALLOW FOR A MINIMUM ONE-FOOT RADIUS BEND AND FOR ADDITIONAL CABLE SUPPORT AT THESE TRANSITION POINTS.
5. TO AVOID **ELECTROMAGNETIC INTERFERENCE** (EMI), ALL PATHWAYS SHALL PROVIDE A MINIMUM CLEARANCE OF 4 FEET (1.2 METERS) FROM MOTORS AND TRANSFORMERS AND A MINIMUM CLEARANCE OF 1 FOOT (0.3 METERS) FROM CONDUIT AND CABLES UTILIZED FOR ELECTRICAL POWER DISTRIBUTION, AND OTHER NON-POS LOW VOLTAGE CONDUCTORS.
6. ANY **CEILING TILES** IN THE AREA WHERE THE LOW-VOLTAGE CABLE MANAGEMENT SYSTEM IS LOCATED SHALL NOT BE INSTALLED UNTIL THE POS VENDOR'S CONTRACTOR COMPLETES THE INSTALLATION OF ALL POS CABLING.
7. ALL NON-POS LOW VOLTAGE CABLING SHALL BE INSTALLED IN A SEPARATE CABLE MANAGEMENT SYSTEM INDEPENDENT OF THE LOW-VOLTAGE CABLE MANAGEMENT SYSTEM UTILIZED FOR THE POS CABLING.
8. THE POS INSTALLER SHALL BE RESPONSIBLE TO FURNISH AND INSTALL ALL LOW VOLTAGE CABLING REQUIRED FOR THE COMPLETE AND FULLY FUNCTIONAL OPERATION OF THE POS SYSTEM. ALL POS CABLING SHALL BE INSTALLED WITHIN THE LOW-VOLTAGE CABLE MANAGEMENT SYSTEM.
9. GENERAL CONTRACTOR TO COORDINATE WITH POS INSTALLER. POS INSTALLER TO PERFORM POS CABLE INSTALLATION PRIOR TO CLOSING OF WALLS AND CEILING.

ELECTRICAL POS CERTIFICATION

AS OF THE DATE BELOW, I HEREBY CERTIFY THAT ALL ELECTRICAL WORK, ELECTRICAL SERVICE AND ELECTRICAL SYSTEMS, MATERIALS AND LABOR RELATED TO THE POS ELECTRICAL INSTALLATION IN WHICH THE UNDERSIGNED ARE DIRECTLY OR INDIRECTLY RESPONSIBLE HAVE BEEN PROPERLY INSTALLED IN FULL COMPLIANCE WITH ALL CONSTRUCTION DOCUMENTS AND ALL NFPA, BUILDING, ELECTRICAL AND OTHER APPLICABLE CODES, ALONG WITH ALL OF THE REQUIREMENTS OUTLINED ON THIS DRAWING. I FURTHER CERTIFY THAT THE ELECTRIC SERVICE POWERING THE POS SYSTEM HAS BEEN PROPERLY INSTALLED BY A QUALIFIED ELECTRICIAN. SKILLED, KNOWLEDGEABLE AND TRAINED TO INSTALL ALL THE REQUIRED ELECTRICAL DISTRIBUTION COMPONENTS NECESSARY TO POWER THE POINT OF SALE (POS) SYSTEM.

GENERAL CONTRACTOR: _____ ELECTRICAL CONTRACTOR: _____

BY: _____ BY: _____

DATE: _____ DATE: _____

START HERE

A VISUALLY INSPECT THE MAIN ELECTRICAL PANEL (MDP)

YES NO N/A

1. IS AN **EQUIPMENT GROUND BAR** INSTALLED SUCH THAT IT IS ELECTRICALLY **CONNECTED** TO THE PANEL?
2. DO ALL NEUTRAL CONDUCTORS TERMINATE ONLY TO THE NEUTRAL BAR?
3. DO ALL EQUIPMENT GROUND CONDUCTORS TERMINATE ONLY TO THE EQUIPMENT GROUND BAR?
4. DOES THE ISOLATED GROUND CONDUCTOR (GREEN W/YELLOW STRIPE) TERMINATE ON THE EQUIPMENT GROUND BAR?
5. IS THERE AN APPROPRIATE ELECTRICAL CONNECTION (BOND) BETWEEN THE NEUTRAL BAR AND THE EQUIPMENT GROUND BAR?
6. DOES THE GROUNDING SYSTEM COMPLY WITH MCDONALD'S "BUILDING ELECTRICAL GROUNDING DETAIL"?
7. IS A SURGE PROTECTOR INSTALLED THAT COMPLIES WITH MCDONALD'S "TVSS INSTALLATION GUIDE" OR DETAIL?
8. ARE ALL ELECTRICAL CONNECTIONS (WIRING & BUSING) PROPERLY TIGHTENED?
9. ARE ALL CIRCUIT BREAKERS CLEARLY LABELED?

B VISUALLY INSPECT THE PANEL "CP" THAT POWERS POS

YES NO N/A

1. IS AN **EQUIPMENT GROUND BAR** INSTALLED SUCH THAT IT IS ELECTRICALLY **CONNECTED** TO THE PANEL?
2. IS AN **ISOLATED GROUND BAR** INSTALLED SUCH THAT IT IS ELECTRICALLY **INSULATED** FROM THE PANEL?
3. DO ALL NEUTRAL CONDUCTORS TERMINATE ONLY TO THE NEUTRAL BAR?
4. DO ALL EQUIPMENT GROUND CONDUCTORS TERMINATE ONLY TO THE EQUIPMENT GROUND BAR?
5. DO ALL ISOLATED GROUND CONDUCTORS (GREEN W/YELLOW STRIPE) TERMINATE ONLY TO THE ISOLATED GROUND BAR?
6. ARE ALL ELECTRICAL CONNECTIONS (WIRING & BUSING) PROPERLY TIGHTENED?
7. ARE ALL POS AND COD CIRCUIT BREAKERS ON THE SAME PANEL?
8. ARE ALL CIRCUIT BREAKERS CLEARLY LABELED?
9. DO ALL POS & COD CIRCUIT BREAKERS HAVE A LOCKING MECHANISM ON THEIR HANDLES TO PREVENT THEM FROM BEING SHUT OFF BY MISTAKE?
10. DOES THE FEEDER CIRCUIT FOR THIS SUBPANEL CONTAIN PHASE, NEUTRAL ONE EQUIPMENT GROUND AND ONE ISOLATED GROUND CONDUCTORS THAT ARE PROPERLY TERMINATED (SEE POS & COD ISO GND/DED CKT DETAIL)?

VISUALLY INSPECT ALL REMAINING ELECTRICAL SUBPANELS

YES NO N/A

1. IS AN **EQUIPMENT GROUND BAR** INSTALLED SUCH THAT IT IS ELECTRICALLY **CONNECTED** TO THE PANEL?
2. DO ALL NEUTRAL CONDUCTORS TERMINATE ONLY TO THE NEUTRAL BAR?
3. DO ALL EQUIPMENT GROUND CONDUCTORS TERMINATE ONLY TO THE EQUIPMENT GROUND BAR?
4. ARE ALL ELECTRICAL CONNECTIONS (WIRING & BUSING) PROPERLY TIGHTENED?
5. ARE ALL CIRCUIT BREAKERS CLEARLY LABELED?
6. DOES THE FEEDER CIRCUIT FOR THIS SUBPANEL CONTAIN PHASE, NEUTRAL AND ONE EQUIPMENT GROUND CONDUCTORS THAT ARE PROPERLY TERMINATED? (SEE BUILDING ELECTRICAL GROUNDING DETAIL)

C VISUALLY INSPECT THE POS BRANCH CIRCUITS

YES NO N/A

1. ARE THE POS BRANCH CIRCUITS ROUTED IN THEIR OWN CONDUIT BY THEMSELVES?
2. IF THE POS BRANCH CIRCUIT IS ROUTED ABOVE GRADE, IS IT IN A METALLIC CONDUIT?
3. DOES EACH POS BRANCH CIRCUIT CONTAIN: ONE PHASE (BLACK COLORED INSULATION) ONE NEUTRAL (WHITE COLORED INSULATION) ONE EQUIPMENT GROUND (GREEN COLORED INSULATION) ONE ISOLATED GROUND (GREEN W/YELLOW STRIPE COLORED INSULATION).
4. DO ALL POS BRANCH CIRCUITS TERMINATE AT EITHER AN IG4700, IG4710, IG5261, IG5262 RECEPTACLES OR ANY COMBINATION OF THESE?
5. ARE ALL ELECTRICAL TERMINATIONS TO IG RECEPTACLES MADE WITH SOLID #12 AWG WIRE CAPTURED AROUND THE SCREW BARREL AND SUITABLY TIGHTENED?
6. ARE ALL BRANCH CIRCUIT CONNECTIONS PROPERLY TIGHTENED?
7. ARE THE CORRECT AMOUNT AND TYPE OF IG RECEPTACLES PROVIDED AS SHOWN IN THE ELECTRICAL ROUGH-IN PLAN, NOTES AND INFORMATION?
8. DO ALL POS RECEPTACLES HAVE ORANGE "COMPUTER ONLY" COVERPLATES?
9. DO ALL POS BRANCH CIRCUITS COMPLY WITH THE "POS & COD ISOLATED GROUND/DEDICATED CIRCUIT DETAIL?

D VISUALLY INSPECT THE POS BRANCH CIRCUIT FOR THE COD & KIOSK

YES NO N/A

1. ARE THE COD AND KIOSK BRANCH CIRCUITS ROUTED IN THEIR OWN CONDUIT BY THEMSELVES?
2. DOES EACH COD AND KIOSK BRANCH CIRCUIT CONTAIN;
   - ONE PHASE (BLACK COLORED INSULATION),
   - ONE NEUTRAL (WHITE COLORED INSULATION),
   - ONE EQUIPMENT GROUND (GREEN COLORED INSULATION),
   - ONE ISOLATED GROUND (GREEN W/YELLOW STRIPE COLORED INSULATION).
3. ARE THE COD(S) AND KIOSK(S) POWERED FROM THE SAME PANEL AS THE POS?
4. DO THE BREAKERS FOR THE COD(S) AND KIOSK(S) HAVE A LOCKING MECHANISM ON THEIR HANDLES THAT WILL PREVENT IT FROM BEING SHUT OFF?
5. DO THE COD BRANCH CIRCUIT(S) COMPLY WITH THE "POS & COD ISOLATED GROUND/DEDICATED CIRCUIT DETAIL?

ARE ALL BOXES CHECKED "YES"?

YES → FINISHED

NO → REWORK ELECTRICAL SYSTEM TO BRING INTO COMPLIANCE WITH MCDONALD'S SPECIFICATIONS

ALL WORK IS NOT CONSIDERED TO MEET MCDONALD'S SPECIFICATIONS UNTIL THE INSTALLED ELECTRICAL SYSTEM SUPPORTS A "YES" ANSWER FOR ALL QUESTIONS ASKED.

AS PART OF THIS PROCESS, THE EC AND THE GC WILL BE REQUIRED TO SIGN THE ELECTRICAL CERTIFICATION DOCUMENT INDICATING THAT THE INSTALLED ELECTRICAL SYSTEM MEETS MCDONALD'S SPECIFICATIONS.

NOTICE:

CHANGES SHALL NOT BE MADE TO THE POS ELECTRICAL SYSTEM AFTER THE POS EQUIPMENT HAS BEEN INSTALLED WITHOUT FIRST NOTIFYING THE POS VENDOR.

IF CHANGES ARE MADE TO THE POS ELECTRICAL SYSTEM **AFTER** THE CERTIFICATION PROCESS HAS BEEN COMPLETED, THEN A SYSTEM RE-CERTIFICATION SHALL BE REQUIRED.

ELECTRICAL DRAWING INDEX

E1.0 POS RISER DIAGRAM
E1.1 ROUGH-IN FLOOR PLAN
E2.0 LIGHTING PLAN
E2.1 ELECTRICAL ROOF PLAN
E3.0 ROUGH-IN SCHEDULE
E3.1 NOTES & DETAILS
E3.2 INTERLOCK DIAGRAMS
E4.0 WIRING DETAILS
E4.1 LIGHTING CONTROLS
E4.2 PANEL SCHEDULES & ONE LINE

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ANDREW HENRY KINNEY LICENSED 27273 KANSAS PROFESSIONAL ENGINEER

SIGNATURE

06/16/2026 DATE — 04/30/2028 EXPIRATION DATE

COVERING ELECTRICAL DESIGN

STATE ID: 150404
PROJECT #: 26-028
NATIONAL #: 44655
DRAWN BY: -
CHECKED BY: AHRS

DATE: 04/08/2026 - PERMIT / BID SET

REVISIONS
1 05/07/2026 - QC COMMENTS/ADA UPDATE
2 06/22/26 - CITY COMMENTS / DECOR

CLIENT
McDonald's USA, LLC

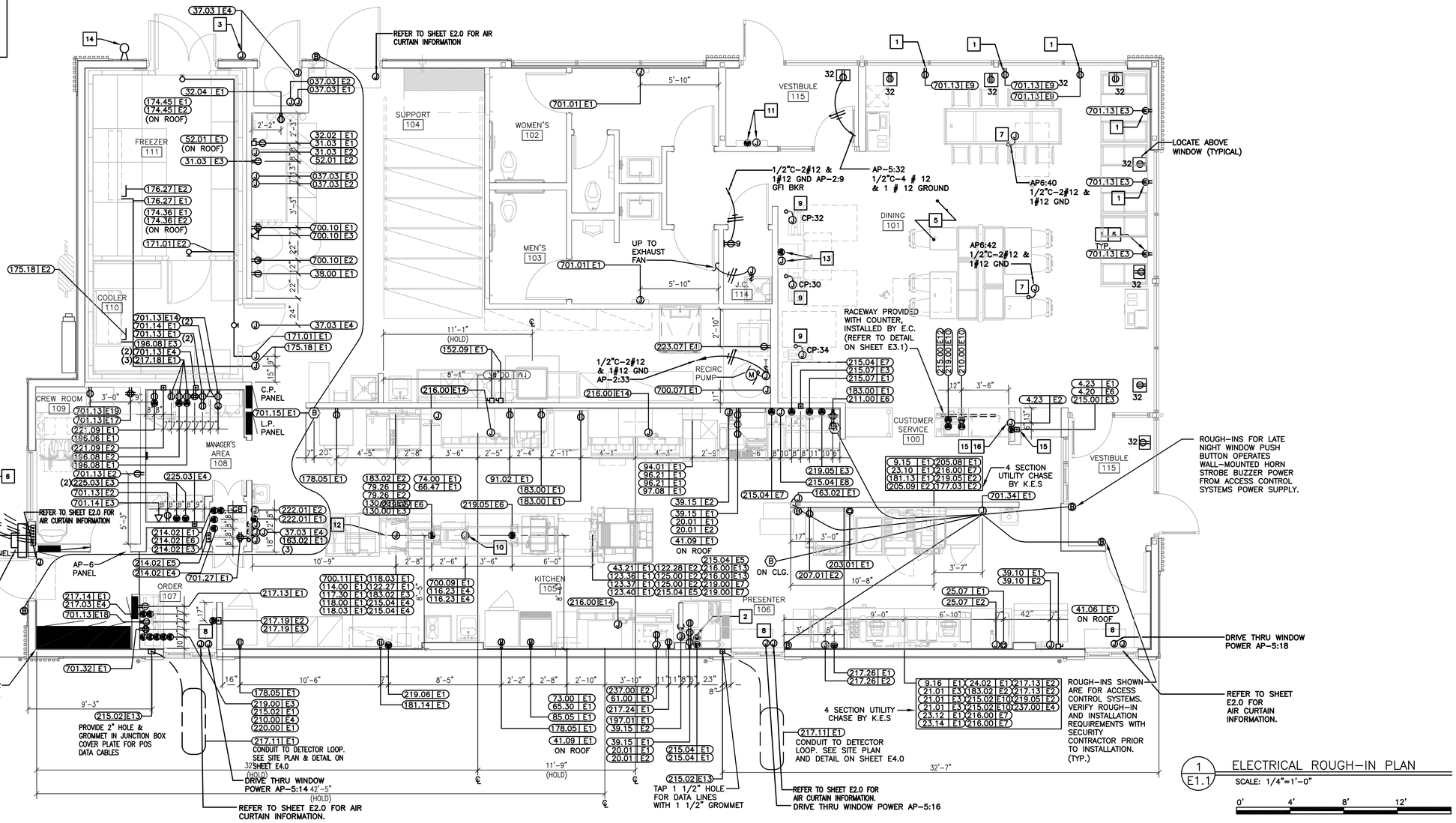
PROTOTYPE
BB20 4584 WW-HB
ISSUE DATE 02/25

ADDRESS
707 1/2 METROPOLITAN AVE
LEAVENWORTH, KS 66048

SHEET TITLE
POS RISER DIAGRAM

SHEET NUMBER:
E1.0

TRASH CORRAL POWER:
3/4"C–4#10 & 1#10 GND TO A 30A–2P AND A 20A–1P CB IN PANEL AP–2 FOR TRASH COMPACTOR AND WP GFCI DCO. PROVIDE 30A–2P NF DISCONNECT FOR TRASH COMPACTOR. VERIFY EXACT LOCATION AND ALL REQUIREMENTS OF TRASH CORRAL IN FIELD.



1 E1.1 ELECTRICAL ROUGH–IN PLAN
SCALE: 1/4"=1'–0"
0' 4' 8' 12'

SYMBOLS AND ABBREVIATIONS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SINGLE POLE SWITCH, 3W=THREE WAY SWITCH, K=KEYED SWITCHED, VS=VACANCY SENSOR	(B)	BUZZER
T	MANUAL SWITCH (T=THERMAL OVERLOADS)	(B)	BUTTON FOR BUZZER
T	TRANSFORMER		PULLBOX
	JB WITH DUPLEX CONVENIENCE OUTLET (FLUSH WITH CEILING)		PANELBOARD
	JB WITH SINGLE CONVENIENCE OUTLET		CIRCUIT BREAKER
	JB WITH DUPLEX CONVENIENCE OUTLET	A	AMPERES
	JB WITH TWO DUPLEX CONVENIENCE OUTLETS	ACM	AREA CONSTRUCTION MANAGER
	JB WITH SPECIAL PURPOSE OUTLET	AFF	ABOVE FINISHED FLOOR
	JB WITH ISOLATED GROUND OUTLET (IG) = IG4710, (IG) =IG5261, (IG) =IG4700A, (IG) =IG5262	C	CONDUIT
		CCT	CIRCUIT
	INTERCOM STATION W/ 3/4"C– TO MAIN STATION	EC	ELECTRICAL CONTRACTOR
	TELEPHONE JACK	GC	GENERAL CONTRACTOR
(J)	JUNCTION BOX – WALL OR CEILING MOUNTED	GFI/GFCI	GROUND FAULT CIRCUIT INTERRUPTER
	DISCONNECT SWITCH	GND	GROUND
(S)	STUB UP THRU ROOF	IG	ISOLATED GROUND
(T)	THERMOSTAT SENSOR W/ 1/2"C– UP TO CEILING SPACE	JB	JUNCTION BOX
(M)	MOTOR CONNECTION	KES	KITCHEN EQUIPMENT SUPPLIER
	CONDUIT RUN CONCEALED IN CEILING OR WALLS	MLO	MAIN LUGS ONLY
	CONDUIT RUN IN FLOOR SLAB	WP	WEATHERPROOF
	HOT (SHORT), NEUTRAL (LONG), EQUIP GRD (LONG WITH DOT), & & 'X' DENOTES ISOLATED GRD	(CO)	CARBON MONOXIDE SENSOR
	J–BOX WITH FINAL EQUIPMENT CONNECTION	GB	GROUND BUS TERMINAL
(OS)	CEILING MOUNTED OCCUPANCY SENSOR	(DS)	DAYLIGHT SENSOR

ADT ROUGH–IN NOTES

1. COORDINATE EXACT INSTALLATION REQUIREMENTS WITH ADT PRIOR TO INSTALLATION TEL 800–417–8238
2. EC SHALL PROVIDE A 2 GANG 3 23/32" X 3 23/32" X 3 1/2"D JUNCTION BOX AT DOOR FOR INSTALLATION OF DOOR ALARM UNIT. STUB 1/2"C ABOVE CEILING FROM JUNCTION BOX. PROVIDE 1/2"C FROM J–BOX TO DOOR MAGNETIC SWITCH LOCATION.
3. EC SHALL PROVIDE 4" X 4" JUNCTION BOX ABOVE CEILING FOR INSTALLATION OF LOW VOLTAGE TRANSFORMER. VERIFY EXACT LOCATION WITH ADT PRIOR TO INSTALLATION. PROVIDE 1/2"C–2#12 TO LOCKOUT TYPE CB IN PANEL LP–1.

GENERAL NOTES

1. SEE SHEET E3.0 FOR PANEL & CIRCUIT BREAKER ASSIGNMENT, VOLT/PH, FLA, BREAKER SIZE, COND/WIRE, RECEPTACLE TYPE, HEIGHT ABOVE FINISHED FLOOR, REQUIREMENTS & REMARKS FOR ALL ELECTRICAL EQUIPMENT.
2. SEE LOW VOLTAGE CABLE MANAGEMENT SPECIFICATION ON SHEET E1.0 FOR POS, DATA, AND SOUND SYSTEM REQUIREMENTS.
3. PROVIDE GFCI BREAKER FOR ALL SINGLE PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 50AS OR LESS; AND THREE–PHASE RECEPTACLES RATED 150 VOLTS OR LESS, 100 AMPS OR LESS INSTALLED IN BATHROOMS, KITCHEN, OR WITHIN 6 FEET OF ANY SINK.

KEY NOTES

1. TAMPER RESISTANT GFCI DUPLEX RECEPTACLE IN PUBLIC AREAS. EC SHALL PROVIDE HUBBELL GFTRST* ("*": AL=ALMOND, BK=BLACK, –=BROWN, GY=GRAY, I=IVORY, LA=LIGHT ALMOND, R=RED, W=WHITE). SPECIFIED RECEPTACLE BECOMES DE–ENERGIZED UPON FAILURE OF GFCI DEVICE. NO SUBSTITUTIONS.(TYPICAL)
2. SEE POS ELECTRICAL RISER DIAGRAM ON SHEET E1.0. (TYPICAL)

KEY NOTES

3. EC TO FURNISH AND INSTALL A FLUSH MOUNTED JUNCTION BOX WITH WEATHERPROOF GASKET AND OUTDOOR WEATHERPROOF, 24 VOLT CO2 HORN/STROBE UNIT COMPATIBLE WITH CO2 ALARM SYSTEM – EDWARDS GENESIS WGAVRN OR APPROVED EQUAL. STROBE SHALL HAVE AN AMBER COVER AND MEET ALL LOCAL REGULATORY REQUIREMENTS FOR SPECIFICATIONS AND INSTALLATION. PROVIDE A 3" CONDUIT STUB–IN INTO BUILDING WITH THERMOPLASTIC BUSHING FROM WEATHERPROOF BACKBOX. PROVIDE FINAL WIRING TERMINATIONS AT HORN/STROBE UNIT AND THEN PROVIDE 36 INCHES OF PIGTAIL WIRING FROM HORN/STROBE INTO THE BUILDING AND NEATLY COIL FOR FINAL CONNECTION. FINAL WIRING CONNECTION FROM OUTDOOR HORN/STROBE PIGTAILS TO THE CO2 ALARM SYSTEM INSTALLATION TO BE PROVIDED BY BEVERAGE INSTALLER.
4. PER THE AMERICAN WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG), A MINIMUM OF ONE (1) ADA COMPLIANT ELECTRICAL RECEPTACLE SHALL BE INSTALLED AT AN ACCESSIBLE TABLE. GC/EC SHALL REFERENCE FINAL DECOR PLANS AND PROVIDE RECEPTACLES AS NECESSARY FOR COMPLIANCE. (TYPICAL)
5. COORDINATE LOCATION OF RECEPTACLES SO THAT RECEPTACLES ARE LOCATED ON FULL HEIGHT WALLS PER THE DECOR PLAN. STUB UP AND CIRCUIT IN HALF WALL FOR RECEPTACLES NOT ON FULL HEIGHT WALLS, CONFIRM FINAL LOCATIONS WITH DECOR DRAWINGS PRIOR TO ROUGH–IN.
6. IF MOUNTED TO A LIGHTING POLE, DT CAMERA SHALL ONLY BE INSTALLED ON A POLE WITH MAXIMUM OF (2) LIGHTING HEADS. PROVIDE ISOLATION OF DT CAMERA MOUNTING HARDWARE AND POLE TO PREVENT BI–METALLIC OR GALVANIC CORROSION.
7. E.C. TO PROVIDE AN ALLOWANCE IN BID TO PROVIDE TWO(2) FLEXIBLE POWER CONNECTIONS FOR POWER TO FURNITURE/ FAMILY EXPERIENCE ELEMENTS AS PART OF THE DECOR PACKAGE. E.C. SHALL VERIFY EXACT LOCATIONS IN FIELD AND WITH DECOR DRAWINGS. PROVIDE ALL NECESSARY MATERIALS AND LABOR FOR A COMPLETE AND FULLY NEC CODE COMPLIANT INSTALLATION. ALL COMPONENTS SHALL BE FED FROM A GFCI TYPE CIRCUIT BREAKER AND BRANCH CIRCUIT SHALL CONTAIN TWO PATHS OF GROUNDING (CONDUIT BODY AND AN INSULATED GROUNDING CONDUCTOR) TO COMPLY WITH McDONALD'S GROUNDING STANDARDS.
8. DRIVE THRU WINDOW POWER, CONFIRM REQUIREMENTS WITH MANUFACTURER DRAWINGS. 1/2"C.–2 # 12 & 1 # 12 GROUND COORDINATE EXACT LOCATION IN FIELD

KEY NOTES

9. PROVIDE POWER FOR CONNECTION TO SELF ORDER KIOSKS. COORDINATE EXACT LOCATION OF KIOSKS WITH DECOR DRAWINGS. PROVIDE 2#12, 1#12 GRD., & 1#12 ISOLATED GROUND ON A 20A DEDICATED CIRCUIT FED FROM THE CP PANEL FOR EVERY KIOSK.
10. VERIFY DROP CORDS AND RECEPTACLES DO NOT FALL BELOW HEIGHTS LISTED ON E3.0 ELECTRICAL SCHEDULE. RECEPTACLES SHOULD BE LOCATED AT HEIGHTS TO AVOID CONTACT WITH HOT APPLIANCES.
11. PROVIDE POWER AND DATA ROUGH–INS FOR DIGITAL MERCHANDISER. EXTEND CIRCUIT TO DINING FROM FRONT COUNTER MERCHANDISER IN SERVICE AREA. EXTEND J–HOOKS FROM SERVICE AREA FOR DATA CABLES. REFER TO 3/E3.1.
12. EC TO INSTALL DROP CORDS JUSTIFIED TO THE DRIVE THRU SIDE OF THE BUILDING.
13. PROVIDE POWER AND DATA ROUGH–INS FOR CASH HANDLERS REFER TO 4/E3.1 FOR MORE INFORMATION. COORDINATE EXACT LOCATION WITH DECOR DRAWINGS.
14. COORDINATE EXACT LOCATION OF ACCESS POINT IN FIELD WITH ACCENTURE. ELECTRICAL CONTRACTOR TO PROVIDE A WALL PENETRATION INTO INTERIOR CEILING AT 11'–0". PROVIDE # 8 GROUND CONDUCTOR FROM BUILDING GROUNDING SYSTEM TO BUILDING EXTERIOR WIRELESS ACCESS POINT. FINAL CONNECTIONS TO ACCESS POINT BY ACCENTURE.
15. CONTRACTOR TO PUNCH HOLES IN SERVICE POD FOR CABLE AND CONDUIT ROUTING. UTILIZE BUSHINGS PROVIDE WITH SERVICE POD TO PROTECT CABLES.
16. REFER TO DETAIL ON A3.1 FOR SERVICE AREA ELEVATIONS.

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NICHOLAS HERMANSEN LICENSED 27273 KANSAS PROFESSIONAL ENGINEER

SIGNATURE

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1 05/07/2026 - QC COMMENTS/ADA UPDATE
2 06/22/26 - CITY COMMENTS / DECOR

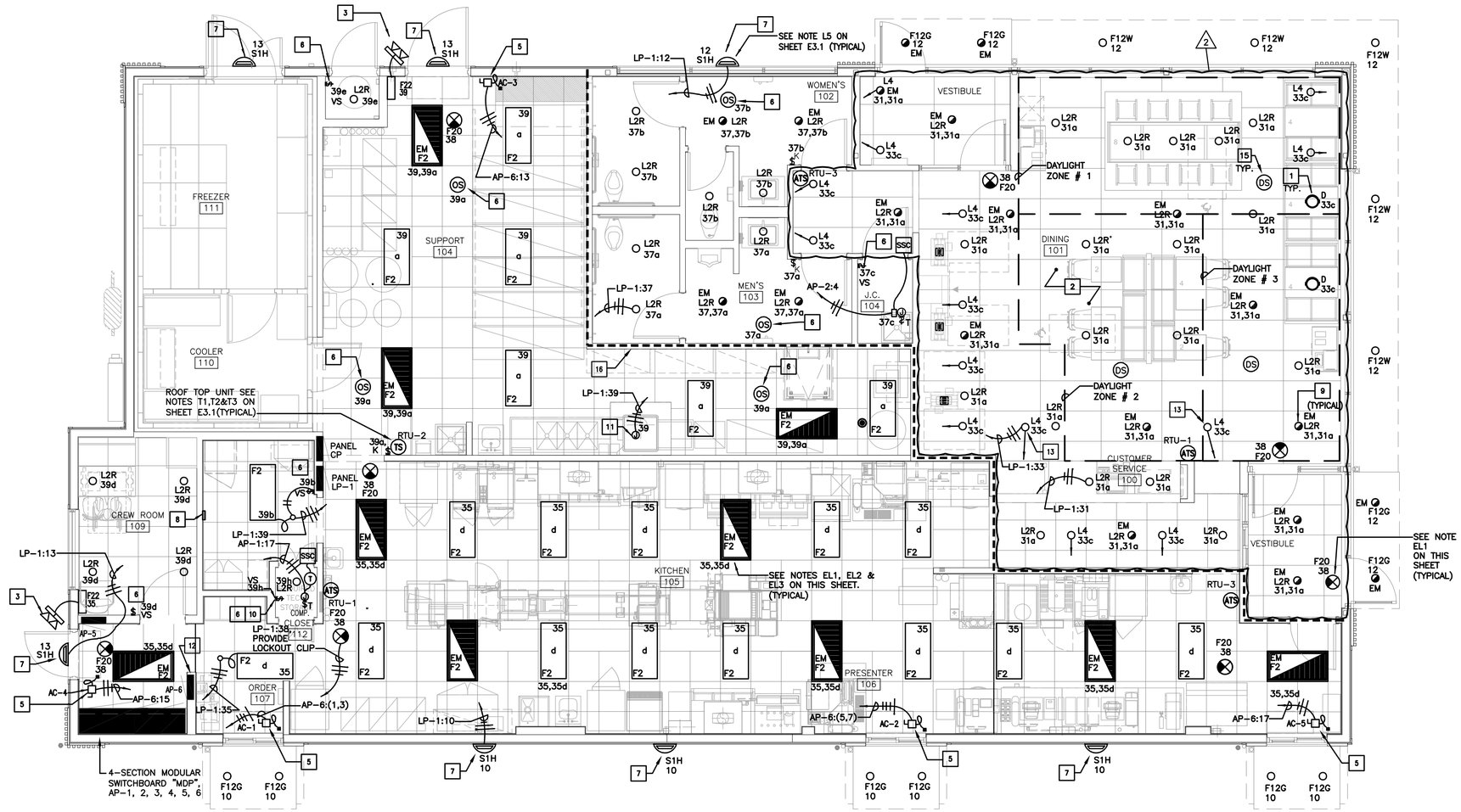
CLIENT
McDonald's USA, LLC

PROTOTYPE
BB20 4584 WW-HB
ISSUE DATE 02/25

ADDRESS
707 1/2 METROPOLITAN AVE
LEAVENWORTH, KS 66048

SHEET TITLE
ROUGH-IN FLOOR PLAN

SHEET NUMBER:
E1.1



1 E2.0 LIGHTING FLOOR PLAN

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

0' 4' 8' 12' 16'

KEY

DENOTES FIXTURE TYPE — EM / F2

DENOTES CIRCUIT NUMBER — 35,35d

LIGHTING FIXTURES SHOWN HALF HATCHED SHALL BE WIRED TO AN EMERGENCY INVERTER AND CIRCUITED AS SWITCHED EMERGENCY FIXTURES SO THE FIXTURE IS CONTROLLED VIA TIMECLOCK BUT TURNS ON UPON LOSS OF POWER. SEE NOTE EL3 ON THIS SHEET. COORDINATE LOCATION WITH DECOR.

LIGHTING FIXTURES SHOWN WITH ARROW DENOTES GENERAL DIRECTION TO AIM ADJUSTABLE FIXTURES. VERIFY IN FIELD.

VERIFY FINAL LIGHTING LAYOUT AND SPECIFICATION W/ ACM AND SEATING & DECOR COMPANY PRIOR TO ORDERING LIGHTING PACKAGE.

SEE SHEET E3.1 FOR GENERAL LIGHTING NOTES AND "ROOF PLAN" (SHEET E2.1) FOR ADDITIONAL ELECTRICAL ROUGH-IN & LIGHTING REQUIREMENTS.

LIGHTING FIXTURE SCHEDULE:

MARK	SYMBOL	DESCRIPTION	DIFFUSER	LAMPS WATTS	LAMPS TYPE	BALLAST	MOUNTING	MANUFACTURER AND CATALOG NUMBER
F2		2' X 4' GRID TROFFER	PRISMATIC ACRYLIC	48W	LED	–	RECESSED	SECURITY LIGHTING: # CBT24-A-LSCS-EDD-HIGH, EMERGENCY FIXTURE # CBT24-A-LSCS-EDD-ELL14-HIGH
L2R	OR	4" LED DOWN LIGHT	–	16W	LED	–	RECESSED	SECURITY LIGHTING # RDA-136LM-30-FL-B/RDA-136-H VERIFY DOWNLIGHT TO BE USED WITH PHOTOMETRIC
L4	OR	3" LED ADJUSTABLE DOWN LIGHT	–	7W	LED	–	RECESSED	SECURITY LIGHTING # RDA-60LM-30-NF-B/RDA-60-H VERIFY DOWNLIGHT TO BE USED WITH PHOTOMETRIC
F12G		6" LED DOWN LIGHT – GOLD TRIM	–	12.5W	LED	–	RECESSED	SECURITY LIGHTING # 8542-5CCT
F12W		6" LED DOWN LIGHT – WHITE TRIM	–	12.5W	LED	–	RECESSED	SECURITY LIGHTING # 8542-5CCT
D		ORBIT PENDANT	–	19W	LED	–	SUSPENDED	SECURITY LIGHTING # MPLN-11R-120-LM-30-DGCDG 2
F20		EXIT SIGN WITH BATTERY BACKUP	–	1.8W	LED	–	SURFACE	SECURITY LIGHTING: EVEURWE. SEE NOTE LS2 ON THIS SHEET.
F22		EMERG BATTERY & 2 REMOTE HEADS	–	–	LED	–	SURFACE TO WALL OR SOFFIT	SECURITY LTG. #EV4D-02L-0/EVODB
S1H		"DOWN ONLY" RADIAL WALL SCONCE – SILVER	TEMPERED GLASS	(1)-14W	LED	–	SURFACE TO WALL	SECURITY LIGHTING: #RWSC-36L-5K-DO-U-PS

LIGHTING SCHEDULE NOTES:

LS1. ORDER LED EXIT SIGNS WITH LETTER COLORS THAT COMPLY WITH LOCAL CODES.
– FOR RED LETTERS USE #EVE-U-R (UNIVERSAL),
– FOR GREEN LETTERS USE #EVE-U-G (UNIVERSAL), OR
IF THE ABOVE EXIT SIGNS DO NOT COMPLY WITH LOCAL CODES USE: LED SIGN WITH BATTERY BACKUP, LETTER SIZE, COLOR, TYPE & DIRECTIONAL ARROWS AS REQUIRED BY THE LOCAL AUTHORITIES.

LS2. ALL INTERIOR LIGHT FIXTURES SHALL BE 120 VOLT UNLESS NOTED OTHERWISE.

LS3. LIGHTING FIXTURES HAVE BEEN CHOSEN TO ACHIEVE MAXIMUM ENERGY CONSERVATION WHILE MAINTAINING ADEQUATE LEVEL OF ILLUMINATION. SPECIFICATIONS SHALL BE STRICTLY FOLLOWED. ANY DEVIATION FROM THE SPECIFICATIONS SHALL BE APPROVED IN WRITING BY McDONALD'S CORPORATION.

ORDER ALL LIGHT FIXTURES FROM:

SECURITY LIGHTING SYSTEMS, INC.
PHONE: 1-800-LIGHT-IT (800-544-4848)
EMAIL: SLORDERS@CURRENTLIGHTING.COM

CS ILLUMINATIONS
PHONE: 760-477-1244
EMAILS: MCD@CSILLUMINATIOINS.COM
WWW.CSILLUMINATIONS.COM/MCD

BACK OF HOUSE TROFFERS, EXTERIOR LIGHTING, AND LOT LIGHTING FURNISHED BY MCDONALDS GLOBAL STRATEGIC SOURCING SERVICES. ALL OTHER INTERIOR LIGHTING INCLUDING EMERGENCY AND EXIT ARE FURNISHED BY GENERAL CONTRACTOR.

KEY NOTES

1. CENTER PENDANT LIGHTS OVER TABLES (TYPICAL)
2. ALL SOFFIT LOCATIONS, LIGHTING, & SUPPLY GRILLS SHALL BE COORDINATED WITH DECOR COMPANY DRAWING PRIOR TO INSTALLATION.
3. EC SHALL INSTALL AND CONFIGURE REMOTE EMERGENCY LIGHTING AT ALL EGRESS EXTERIOR DOORS FOR MAXIMUM ILLUMINATION AT POINTS OF EGRESS. INSTALL WP J-BOX WITHIN SOFFIT TO ALLOW A FLUSH INSTALLATION OF ANY EXTERIOR EMERGENCY EGRESS LIGHTING (TYPICAL).
4. ADJUSTABLE WALL WASH FIXTURE TO ILLUMINATE LOGO OR GRAPHICS. EC SHALL VERIFY EXACT LOCATION SO AS TO ADEQUATELY ILLUMINATE McDONALD'S ARCH LOGO SIGN AND GRAPHICS.
5. AIR CURTAIN UNIT. NON HEATED VERSION TO USE 1/2"C. 2#12, 1#12GRD. HEATED VERSION TO USE 1"C. 2#6, 1#10 GRD. (TYPICAL).
6. PROVIDE DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR OR WALL MOUNTED VACANCY SENSOR AS SHOWN. ORDER ALL SENSORS FROM SECURITY LIGHTING SYSTEMS, INC.
7. RADIAL WALL SCONCE. SEE NOTE L2 ON SHEET E3.1 AND ARCHITECTURAL ELEVATIONS ON SHEETS A2.0 & A2.1. (TYPICAL)
8. BUILDING AUTOMATION SYSTEM LOCATION. SEE LIGHTING CONTROL DETAILS ON SHEET E4.1.
9. PROVIDE LIGHTING INVERTER FOR USE WITH FIXTURES SHOWN SLASHED. MODEL #LG125T SHOULD BE USED FOR L2R, L4 & FI2G WITH NOT MORE THAN SEVEN DOWNLIGHTS CONNECTED TO EACH INVERTER, AND NOT MORE THAN TWO F2 FIXTURES. IF DECOR USES ALTERNATE FIXTURES, COORDINATE INVERTER TO BE USED WITH LIGHTING SUPPLIER. E.C. SHALL VERIFY THE QUANTITY OF FIXTURES THAT CAN BE CONNECTED WITHOUT EXCEEDING OPERATING CAPACITY OF UNIT AND PROVIDE ADDITIONAL CIRCUITS AND INVERTERS AS REQUIRED. (TYPICAL)
10. CENTER VACANCY SENSOR SWITCH OPPOSITE COMPUTER RACK IN A LOCATION ACCESSIBLE FROM BOTH DOORS FOR CONTROL OF CEILING MOUNTED LIGHT, IN DATA ROOM. FAN CONTROLLED BY LOCAL THERMOSTAT.
11. PROVIDE POWER FOR LIGHT WITHIN EXHAUST HOOD. INTEGRATE INTO LOCAL LIGHTING CONTROLS.
12. LIGHTING CONTACTORS IN NEMA 1 ENCLOSURE JUST BELOW CEILING. EC SHALL PROVIDE 120 VOLT CONTROL CIRCUIT TO CONTACTOR PANEL. VERIFY EXACT LOCATION IN FIELD AND REFER TO DRAWING E4.1 FOR ADDITIONAL DETAILS.
13. ADJUST FIXTURE TO ILLUMINATE DELIVERY POD SHELVING.
14. PROVIDE POWER FOR LIGHT WITHIN TOY DISPLAY. COORDIANTE EXACT LOCATION WITH DECOR DRAWINGS.
15. NEW DAYLIGHT SENSOR TO BE INSTALLED TO CONTROL DAYLIGHT AREAS IN THE DINNING AREAS. ORDER ALL DAYLIGHT SENSORS FROM; SECURITY LIGHTING SYSTEMS, INC.
16. DRAFT STOP ABOVE CEILING, SEAL ALL ELECTRICAL PENETRATIONS.

EMERGENCY LIGHTING NOTES

EL1. EC SHALL VERIFY ALL REQUIREMENTS AND FINAL EMERGENCY LIGHTING LOCATIONS WITH LOCAL AUTHORITIES. INCLUDE ALL COSTS IN BASE BID.

EL2. IF NOT INSTALLED BY MANUFACTURER, EC SHALL BE RESPONSIBLE FOR THE COMPLETE INSTALLATION OF THE EMERGENCY INVERTER IN SWITCHED EMERGENCY FIXTURES SHOWN ON THIS SHEET.

EL3. LED FIXTURES DENOTED AS SWITCHED EMERGENCY SHALL BE CONNECTED TO AN INVERTER. INVERTER SHALL BE CAPABLE OF ILLUMINATING FIXTURE FOR 1.5 HOURS TO COMPLY WITH NEC SECTION 700 AND UL924.

EL4. EMERGENCY BATTERY LIGHTING WALL PACKS IN PLAYPLACE SHALL BE LOCATED SO AS TO PROVIDE FOR MAXIMUM ILLUMINATION OF AREA. EC SHALL VERIFY EXACT PLACEMENT IN THE FIELD WITH McDONALD'S ACM. (IF APPLICABLE)

EL5. EMERGENCY LIGHTING HAS BEEN DESIGNED PER NFPA 101 TO MAINTAIN 1 FC IN PATH OF EGRESS. IF FIELD CONDITIONS REQUIRE ANY CHANGES TO LIGHTING DESIGN, EMERGENCY LIGHTING, SHALL BE INSTALLED TO MEET THE ABOVE REQUIREMENTS.

EL6. WIRE NIGHT LIGHTING/EXIT SIGNS/BATTERY LIGHTS AHEAD OF LOCAL SWITCHING IN ACCORDANCE WITH THE NEC 700-12(e) PROVIDE IDENTIFICATION OF ALL EMERGENCY CIRCUITS IN ACCORDANCE WITH NEC 700-9. PROVIDE LOCKOUT CIRCUIT BREAKERS FOR EMERGENCY LIGHTING CIRCUITS.

EL7. EC SHALL INSTALL A LOCK ON CIRCUIT BREAKER HANDLE, FOR ALL EMERGENCY LIGHTING CIRCUITS. EC SHALL VERIFY ALL REQUIREMENTS AND FINAL EMERGENCY LIGHTING LOCATIONS WITH LOCAL AUTHORITIES. INCLUDE ALL COSTS IN BASE BID.

McDONALD'S SITE SIGNAGE:

EC SHALL PROVIDE:

ELECTRICAL CONTRACTOR SHALL COORDINATE POWER REQUIRED FOR ROAD SIGN. MOST SIGNS REQUIRE (1) 20 AMP 120V CIRCUIT. IF USED A 90-200 SIGN REQUIRES (4) 20 AMP 120V CIRCUITS OR ONE 1-PHASE 60 AMP 120/208V CIRCUIT. COORDINATE WITH SUPPLIERS DRAWINGS.
(1) 20 AMP 208 VOLT CIRCUIT, EC TO WIRE 2#12 TO 208 VOLT FLAG FLOODLIGHTS.
(1) 20 AMP 120 VOLT CIRCUIT TO D.C.O. IN ROAD SIGN BASE IF REQUIRED.
(2) 20 AMP 120 VOLT CIRCUITS FOR INGRESS/EGRESS DIRECTIONAL SIGNS (IF APPLICABLE).

*VERIFY EXACT LOCATIONS/TYPES/QUANTITIES OF ALL THE ABOVE WITH SITE/CIVIL PLANS AND MCD ACM.

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LICENSED PROFESSIONAL ENGINEER — KANSAS — 27273

SIGNATURE

06/16/2026 — DATE
04/30/2028 — EXPIRATION DATE
COVERING ELECTRICAL DESIGN

STATE ID: 150404
PROJECT #: 26-028
NATIONAL #: 44655
DRAWN BY: -
CHECKED BY: AHRS

DATE: 04/08/2026 - PERMIT / BID SET

REVISIONS
1 05/07/2026 - QC COMMENTS/ADA UPDATE
2 06/22/26 - CITY COMMENTS / DECOR

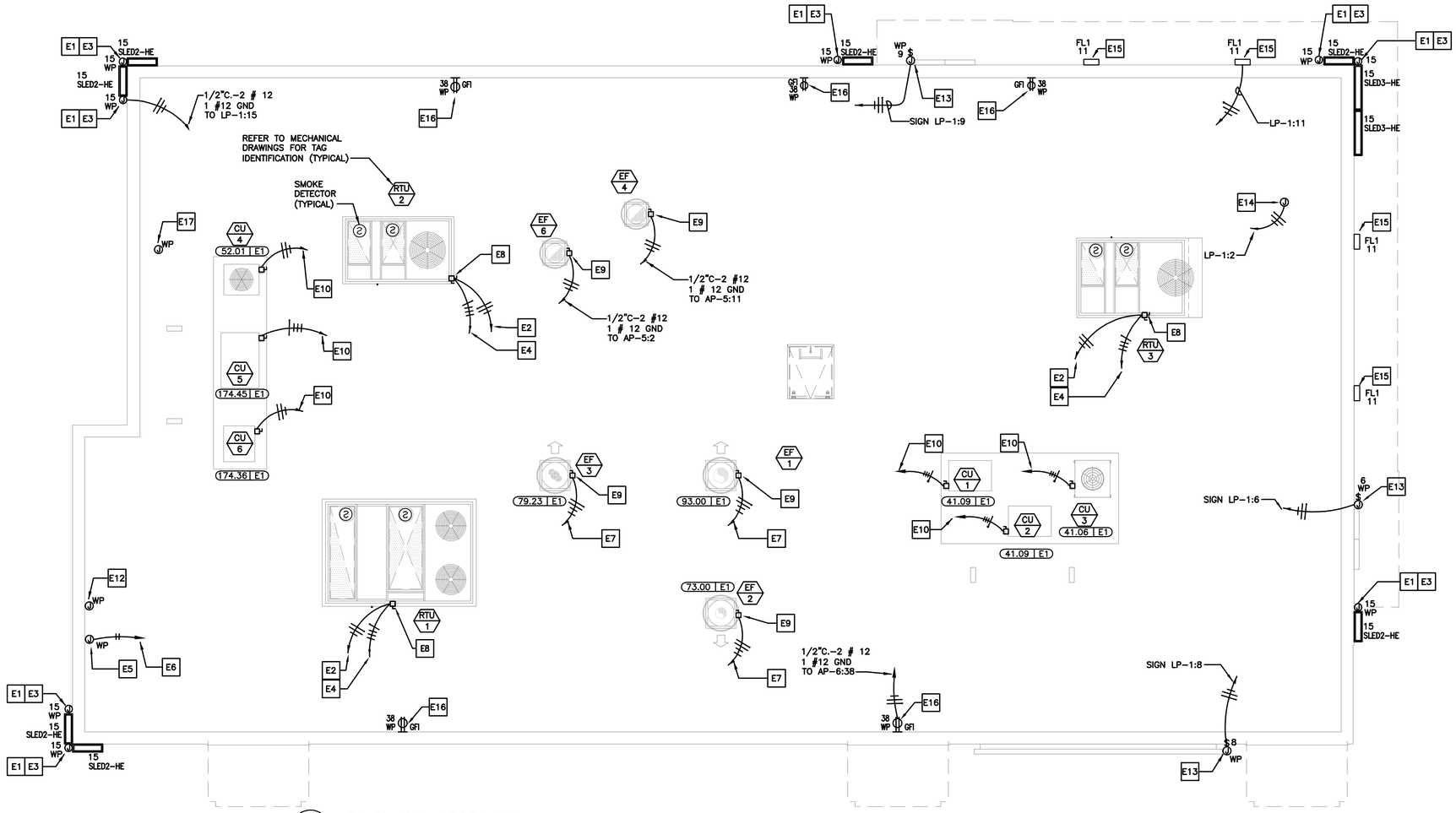
CLIENT
McDonald's USA, LLC

PROTOTYPE
BB20 4584 WW-HB
ISSUE DATE 02/25

ADDRESS
707 1/2 METROPOLITAN AVE
LEAVENWORTH, KS 66048

SHEET TITLE
LIGHTING PLAN

SHEET NUMBER:
E2.0



1 E2.1 ELECTRICAL ROOF PLAN

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

0' 4' 8' 12' 16'

LED GENERAL NOTES

1. PLACE LED FIXTURE AT DESIRED LOCATION AND ATTACH POWER SUPPLY AND MOUNTING BRACKET AS RECOMMENDED BY MANUFACTURER.
2. EC SHALL CONNECT NEW FIXTURES TO A 120V CIRCUIT AND MAKE ALL ELECTRICAL CONNECTIONS AS REQUIRED FOR A COMPLETE OPERATING SYSTEM.
3. POWER SUPPLY SHALL ALWAYS BE INSTALLED TO THE LEFT SIDE OF FIXTURE WHEN FACING BRAND WALL.

KEYED NOTES

E1 EVERY LINEAR RUN OF SLED FIXTURES REQUIRES A DEDICATED WHIP KIT PROVIDED WITH FIXTURE. CONTRACTOR TO FIELD VERIFY FIXTURE MOUNTING HEIGHT, LOCATION, QUANTITY, FIXTURE LENGTHS, AND ALL ELECTRICAL CONNECTION REQUIREMENTS WITH SECURITY LIGHTING PRIOR TO ORDERING AND INSTALLATION (TYPICAL).

E2 WEATHER PROOF RECEPTACLES WITH GFCI PROTECTION ARE PROVIDED AND MOUNTED WITHIN MOTOR HOUSING LOCATIONS PER NEC ARTICLE 210.63. CIRCUIT SHALL EMANATE FROM PANEL AP-5,CCT.#13.(TYPICAL).

E3 SMOOTH BRACING IS REQUIRED FOR LED FIXTURE INSTALLATION UNDER COPING/FLASHING.(TYPICAL)

E4 REFER TO SHEET E4.0 FOR CONDUIT AND WIRE SIZE.(TYPICAL)

E5 E.C SHALL PROVIDE A WEATHER-PROOF J-BOX ON INSIDE FACE OF PARAPET, MOUNTED 6" BELOW TOP OF PARAPET FOR LIGHTING CONTROL PANEL PHOTOCELL. (PHOTOCELL FURNISHED BY OTHERS AND INSTALLED BY EC). REFER TO LIGHTING CONTROL DETAILS ON E4.1

E6 TO LIGHTING ENCLOSURE W/ TIMER. COORDINATE WITH LIGHTING CONTROL DETAILS ON SHEET E4.1

E7 COOKING EQUIPMENT EXHAUST FANS. SEE SHEET E3.0 FOR ELECTRICAL REQUIREMENTS. SEE SHEET E3.2 FOR EXHAUST FAN INTERLOCK WIRING DIAGRAMS. (TYPICAL)

E8 PROVIDE NEMA 3R DISCONNECT WITH CURRENT LIMITING FUSES TO COMPLY WITH NEC 110 AND 440. ELECTRICAL CONTRACTOR SHALL STUB UP THRU RACEWAY IN CURB TO ELIMINATE CONDUIT PENETRATION OF ROOFING. (TYPICAL)

E9 EXTERNAL NEMA 3R MOUNTED ON SIDE OF FAN BY MANUFACTURER. ELECTRICAL CONTRACTOR SHALL STUB-UP THRU ROOF AND PROVIDE FLEXIBLE WEATHERPROOF CONDUIT FROM ROOF PENETRATION TO DISCONNECT (TYPICAL).

E10 REMOTE CONDENSING UNITS. SEE SHEET E3.0 FOR WIRING AND CIRCUITRY REQUIREMENTS.

E11 CANOPY LIGHT. LP-1:11 EC SHALL VERIFY EXACT SPECIFICATIONS AND LOCATION WITH MANUFACTURER. VERIFY EXACT INFEED REQUIREMENTS IN THE FIELD. SEE NOTE L5 ON SHEET E3.1. (TYPICAL)

E12 E.C. SHALL PROVIDE A WEATHER-PROOF JUNCTION BOX WITH ¾"C STUB DOWN TO CEILING SPACE WITH BUSHING FOR ROOF-TOP CAMERA OR SATELLITE. VERIFY EXACT LOCATION(S) WITH MCD AREA CONSTRUCTION MANAGER PRIOR TO INSTALLATION.

E13 E.C. SHALL PROVIDE A JUNCTION BOX FOR ARCH LOGO / McDONALD'S FASCIA / PLAY-PLACE SIGN. SEE NOTE L1 ON SHEET E3.1. COORDINATE EXACT LOCATION IN FIELD WITH ACM. ALL SIGNS PROVIDED WITH INTEGRAL DISCONNECT SWITCH FROM MANUFACTURER.(TYPICAL)

E14 E.C. SHALL PROVIDE A JUNCTION BOX FOR ROOF-TOP FLAG POLE LIGHTING. VERIFY LOCATION(S) WITH MCD PROJECT MANAGER PRIOR TO INSTALLATION.

E15 FLOOD LIGHT MOUNTED ABOVE CANOPY. LP-1:11 EC SHALL VERIFY EXACT SPECIFICATIONS AND LOCATION WITH ARCHITECTURAL ELEVATIONS. VERIFY EXACT INFEED REQUIREMENTS IN THE FIELD. SEE FLOOD LIGHT DETAIL ON SHEET E3.1. (TYPICAL)

E16 WEATHER PROOF "IN USE" COVER TO COMPLY WITH NEC 406.8(B) (TYPICAL).

E17 PROVIDE 2" CONDUIT FOR 5G ANTENNA. PROVIDE PORTALS PLUS PLASTI-FLASH WITH C-126 CAP (OR EQUAL) FOR ROOF PENETRATION. TERMINATE CONDUIT A MIN. OF 24" ABOVE FINISHED ROOF WITH GOOSENECK. PROVIDE # 6 GROUND CONDUCTOR FROM BUILDING GROUNDING SYSTEM TO BUILDING EXTERIOR 5G ANTENNA. FINAL CONNECTIONS TO ANTENNA BY ACCENTURE.

DRAWING NOTES

1. SEE DRAWING M-4.0 FOR GENERAL MECHANICAL NOTES.
2. SEE DRAWINGS M-3.0 AND M-4.1 FOR MECHANICAL EQUIPMENT SCHEDULES AND DETAILS.
3. SEE DRAWING M-4.0 FOR MECHANICAL LEGEND.
4. SEE DRAWING K-2.1 FOR REMOTE CONDENSER AND MAC UNIT INFORMATION.
5. EC SHALL FIELD VERIFY THAT LIGHT FIXTURES DO NOT OBSTRUCT OR CONFLICT WITH THE WORK OF OTHER TRADES. IF A DISCREPANCY IS FOUND, THE EC SHALL IMMEDIATELY NOTIFY THE GC BEFORE THE THE INSTALLATION OF SUCH FIXTURE(S). EC SHALL COORDINATE LOCATIONS OF ALL LIGHT FIXTURES IN DINING AREA WITH FINAL SEATING AND DECOR PLANS.
6. EC SHALL COORDINATE LOCATION OF ALL EXTERIOR LIGHTS WITH McDONALD'S PROJECT MANAGER TO AVOID INTERFERENCE WITH ANY SPECIAL EXTERIOR TREATMENTS. INSTALL LIGHT FIXTURES WITH CORRECT ORIENTATION PER MANUFACTURER'S INSTRUCTIONS. EC SHALL VERIFY THAT NOT MORE

DUCT MOUNTED SMOKE DETECTOR NOTES:
REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION

DUCT MOUNTED SMOKE DETECTOR OPERATION:

1) DUCT MOUNTED DETECTOR ACTIVATION SHALL SHUT DOWN THE AIR DISTRIBUTION SYSTEM COMPLIANT WITH INTERNATIONAL MECHANICAL CODE (IMC) 606-SMOKE DETECTOR SYSTEM CONTROL, NFPA 72 & 90A AND UNIFORM MECHANICAL CODE (UMC) 609-AUTOMATIC SHUTOFFS.
2) DUCT MOUNTED DETECTOR SHALL ACTIVATE A VISIBLE AND AUDIBLE SUPERVISORY SIGNAL COMPLIANT WITH ABOVE MENTIONED CODE.
3) A DUCT MOUNTED DETECTOR TROUBLE CONDITION SHALL ACTIVATE A VISIBLE OR AUDIBLE SIGNAL COMPLIANT WITH ABOVE MENTIONED CODE.
4) CONDUCT A SMOKE TEST ON THE HVAC UNITS WITNESSED BY THE BUILDING INSPECTOR TO VERIFY FAN SHUT-DOWN AND SIGNAL ACTIVATION UPON SMOKE DETECTION.

REMOTE ALARM INSTALLATION:

1) CLEARLY LABEL TO INDICATE BOTH FUNCTION (IN-DUCT SMOKE DETECTOR ALARM) AND AIR HANDLING UNIT ASSOCIATED WITH EACH SMOKE DETECTOR. COMPLY WITH NFPA 72 AND ALL LOCAL CODES.
2) PLACE REMOTE ALARMS IN A READILY ACCESSIBLE LOCATION APPROVED BY THE AUTHORITY HAVING JURISDICTION.

COMPONENT REQUIREMENTS:

(1) DUCT MOUNTED SMOKE DETECTOR FURNISHED WITH UNIT
(1) MULTI-SIGNALING DEVICE CONTAINING:
-A BLUE LENSED STROBE LIGHT INDICATING "SMOKE"
-A KEYED TEST SWITCH
-A GREEN "POWER" LED (ON WHEN DUCT DETECTOR IS POWERED-ALL LEDS ARE OFF UPON LOSS OF POWER)
-A YELLOW "TROUBLE" LED (ON WHEN DUCT DETECTOR SENSOR BOARD IS MISSING OR THE COVER IS REMOVED FOR MORE THAN 20 MINUTES)
-A RED "ALARM" LED (LED AND HORN WILL BE ON WHEN EVER THE DUCT SMOKE DETECTOR IS IN ALARM)

INSTALLATION:
1. ALL WIRING BETWEEN THE DUCT MOUNTED SMOKE DETECTOR AND DEVICES SHALL BE CONNECTED AS INDICATED IN MANUFACTURER'S GUIDELINES.

LED FIXTURE SCHEDULE:

CONTRACTOR SHALL VERIFY ALL FIXTURE LENGTHS PRIOR TO ORDER

MARK	SYMBOL	DESCRIPTION	DIFFUSER	LAMPS WATTS	LAMPS TYPE	BALLAST	MOUNTING	MANUFACTURER AND CATALOG NUMBER
SLED2-HE	▬	DOWN ONLY ACCENT LIGHTING (SEE PLAN)	TEMPERED GLASS	1-10W PER FIXTURE	LED	–	SURFACE	SECURITY LIGHTING: SLED-HE-24-DO-U-IO CUSTOM BUILT FOR EXTERIOR ACCENT CHANNELS.
SLED3-HE	▬	DOWN ONLY ACCENT LIGHTING (SEE PLAN)	TEMPERED GLASS	1-14W PER FIXTURE	LED	–	SURFACE	SECURITY LIGHTING: SLED-HE-36-DO-U-IO CUSTOM BUILT FOR EXTERIOR ACCENT CHANNELS.
FL1	▭	UP ONLY ACCENT LIGHTING (SEE PLAN)	TEMPERED GLASS	1-16W PER FIXTURE	LED	–	SURFACE	SECURITY LIGHTING: RF2-44L-25-5K7-W-UNV-K-IO-JWIO

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ALISON HARNER LICENSED 27273 KANSAS PROFESSIONAL ENGINEER

SIGNATURE

06/16/2026 DATE — 04/30/2028 EXPIRATION DATE

COVERING ELECTRICAL DESIGN

STATE ID: 150404
PROJECT #: 26-028
NATIONAL #: 44655
DRAWN BY: -
CHECKED BY: AHRS

DATE:
04/08/2026 - PERMIT / BID SET

REVISIONS

1 05/07/2026 - QC COMMENTS/ADA UPDATE
2 06/22/26 - CITY COMMENTS / DECOR

CLIENT
McDonald's USA, LLC

PROTOTYPE
BB20 4584 WW-HB
ISSUE DATE 02/25

ADDRESS
707 1/2 METROPOLITAN AVE
LEAVENWORTH, KS 66048

SHEET TITLE
ELECTRICAL ROOF PLAN

SHEET NUMBER:
E2.1

PB = Pullbox
JB = Junction Box
EC = Electrical Contractor
VIF = Verify in Field

ELECTRICAL SCHEDULE

TAG #	QTY	DESCRIPTION	VOLT/PH	FLA	BRK SIZE	COND/WIRE	PNL/CCT	RECEP TYPE	HGT AFF	REQUIREMENTS & REMARKS
004.20E6	1	DIGITAL MERCHANDISER	120/1 ISOLATED	2.6	20A	1/2"C–2#12IG	CP:6	IG5262	6'–5"	–
004.23E1	1	DIGITAL MERCHANDISER – MEDIA PLAYER	120/1 ISOLATED	1.0	20A	1/2"C–2#12IG	CP:6	IG5262	6'–5"	USE SAME RECEPTACLE AS 4.20E6
004.23E2	1	DIGITAL MERCHANDISER – MEDIA PLAYER	DATA CABLE	–	–	–	–	JB	6'–5"	JB W/ 1" C. TO FULL HEIGHT WALL AND TO ABOVE CEILING W/BUSHINGS. FOR DATA CABLES. SUPPLY W/GROMMETED OPENING IN COVER PLATE
009.15E1	1	UTILITY CHASE – FFDT INTERIOR WALL	–	–	–	–	–	–	SEE RMKS	UTILITY CHASE AND RECEPTACLES PROVIDED BY K.E.S.
009.16E1	1	UTILITY CHASE – FFDT EXTERIOR WALL	–	–	–	–	–	–	SEE RMKS	UTILITY CHASE AND RECEPTACLES PROVIDED BY K.E.S.
020.01E1	2	AUTOMATED BEVERAGE SYSTEM 2.0	120/1	5.0	20A	1/2"C–2#12	AP–1:12, AP–2:24	5–20R	2'–0"	–
020.01E2	2	AUTOMATED BEVERAGE SYSTEM 2.0	120/1	14.9	20A	1/2"C–2#12	AP–1:6, AP–2:26	5–20R	3'–10"	FOR PRE–COOLER
021.01E3	3	COFFEE BREWER (THERMAL POTS)	120–208/1	15.5	20A	1/2"C–3#12	AP–1:(2,4)(14,16), AP–5:(20,22)	BY KES	SEE RMKS	EC TO EXTEND CIRCUIT TO L14–20R RECEPTACLE IN CHASE
023.10E1	1	ESPRESSO BREWER	208/1	21.6	30A	1/2"C–2#10	AP–1:(19,21)	BY KES	SEE RMKS	EC TO EXTEND CIRCUIT TO L6–30R RECEPTACLE IN CHASE
023.12E1	1	COFFEE CREAM DISPENSER	120/1	1.0	20A	1/2"C–2#12	AP–1:8	BY KES	SEE RMKS	EC TO EXTEND CIRCUIT TO 5–20R RECEPTACLE IN CHASE
023.14E1	1	SUGAR/SWEETENER DISPENSER	120/1	1.5	20A	1/2"C–2#12	AP–1:8	BY KES	SEE RMKS	EC TO EXTEND CIRCUIT TO 5–20R RECEPTACLE IN CHASE
024.02E1	1	JUICE DISPENSER	120/1	4.5	20A	1/2"C–2#12	AP–1:8	5–20R	SEE RMKS	EC TO EXTEND CIRCUIT TO 5–20R RECEPTACLE IN CHASE
025.07E1	1	INFUSION TEA BREWER – MIS	120–208/1	13.0	20A	1/2"C–3#12	AP–2:(32,34)	L14–20R	2'–3"	–
025.07E2	1	INFUSION TEA BREWER – MIS	–	–	–	–	–	JB	2'–3"	FOR WATER LINE TO ICED TEA BREWER IF CHASE IS NOT SPECIFIED. (SEE P1.6)
031.03E1	1	SODA SYSTEM PACKAGE – B.I.B. (RECIRCULATING– 3 TOWERS)	208/3	26.0	30A	3/4"C–3#10	AP–2:(37,39,41)	SEE RMKS	3'–0" SEE RMKS	EC SUPPLIES 30A–3P NF DISC SW MTD 9" BELOW CEILING PER NEC SECT. 404.8(A)
031.03E2	1	SODA SYSTEM PACKAGE – B.I.B. (RECIRCULATING– 3 TOWERS)	–	–	–	–	–	JB	4'–0"	FOR CONTROL WIRES FROM REMOTE CONDENSING UNIT
031.03E3	1	SODA SYSTEM PACKAGE – B.I.B. (RECIRCULATING– 3 TOWERS)	120/1	(2) 6.8	20A	1/2"C–2#12	AP–2:35	5–20R	6'–6"	FOR WATER BOOSTER SYSTEM AND OPTIONAL AIR COMPRESSOR
032.02E1	1	REVERSE OSMOSIS WATER FILTRATION SYSTEM – TANKLESS	120/1	4.0	20A	1/2"C–2#12 EA.	AP–2:23	5–20R	6'–0"	–
032.04E1	1	WATER FILTRATION SYSTEM	120/1	0.08	20A	1/2"C–2#12 EA.	AP–2:23	5–20R	6'–0"	–
037.03E1	2	CO2 SAFETY SYSTEM – DETECTOR	120/1	1.0	20A	1/2"C–2#12	AP–1:10	JB	SEE RMKS	PROVIDE LOCKOUT CB. SEE MECHANICAL DRAWINGS
037.03E2	2	CO2 SAFETY SYSTEM	–	–	–	–	–	JB	SEE RMKS	FOR LV WIRES. STUB 3/4"C. ABV. CLG. SEE MECHANICAL DRAWINGS
037.03E4	4	CO2 SAFETY SYSTEM – CO2 DETECTOR AV ALARM	–	–	–	–	–	JB	7'–0" MINIMUM	STUB 3/4"C. ABOVE CLG. FOR LV COND. TO 037.03E2. SEE MECHANICAL DRAWINGS
038.00E1	1	CLEAN IN PLACE PANEL	120/1	1.0	20A	1/2"C–2#12	AP–2:21	5–20R	5'–6"	–
039.10E1	1	ICE MACHINE – 1400 LB.	208/3	13.4	20A	1/2"C–3#12	AP–2:(1,3,5)	SEE RMKS	SEE RMKS	EC SUPPLIES 30A–3P NF DISC SW MTD9"BELOW CEILING PER NEC 404.8(A) EX.2 VERIFY W/ AHJ
039.10E2	1	ICE MACHINE – 1400 LB.	–	–	–	–	–	JB	4'–6" SEE RMKS	CONTROL WIRES TO REMOTE CONDENSER
039.15E1	2	ICE MACHINE – 1000 LB.	120/1	1.1	15A	1/2"C–2#12	AP–1:37,39	5–20R	SEE RMKS	MOUNT 9" BELOW CEILING – CIRCUIT BREAKERS SHALL BE HACR TYPE
039.15E2	2	ICE MACHINE – 1000 LB.	–	–	–	1/2"C	–	JB	SEE RMKS	MOUNT 9" BELOW CEILING – CONTROL WIRES TO REMOTE CONDENSER
041.06E1	1	ICE MACHINE REMOTE CONDENSER – 1400 LB.	208/1	1.0	20A SEE RMKS	1/2"C–3#12	AP–1:(26,28)	SEE RMKS	SEE RMKS	EC TO PROVIDE WP 30A–2P NF DISC AT UNIT ON ROOF – CIRCUIT BREAKERS SHALL BE HACR TYPE
041.09E1	2	ICE MACHINE REMOTE CONDENSER – 1000 LB.	208/3	11.1	15A SEE RMKS	1/2"C–3#12 SEE RMKS	AP–1:(32,34,36)(38,40,42)	SEE RMKS	SEE RMKS	EC TO PROVIDE WP 30A–3P NF DISC AT UNIT ON ROOF – CIRCUIT BREAKERS SHALL BE HACR TYPE
043.21E1	1	OPTIMIZED ORDER ASSEMBLY TABLE	120/1	5.4	20A	SEE RMKS	KES BREAKER PANEL	SEE RMKS	SEE RMKS	PLUGS INTO KES OUTLET CHASE FOR HLA
052.01E1	1	SODA SYSTEM PACKAGE REMOTE CONDENSER – 3–TOWER	208/1	2.5	20A SEE RMKS	SEE RMKS	SEE RMKS	SEE RMKS	SEE RMKS	EC TO PROVIDE 30A–2P DISC SW W/15A FUSE – POWERED BY 31.03 – LOCATION BY ACM
052.01E2	1	SODA SYSTEM PACKAGE REMOTE CONDENSER – 3–TOWER	–	–	–	–	–	–	SEE RMKS	CONTROL WIRES TO SODA SYSTEM – LOCATION BY ACM
061.00E1	1	FRY BAGGING STATION 36"	120/1	12.5	20A	1/2"C–2#12	AP–1:31	JB	4'–0"	–
065.30E1	1	3–VAT LOV FRYER – ELECTRIC – F/F/F	208/3	38.9 EA. VAT	(3) 50A	1"C–3#6 EA. VAT	AP–4:(13,15,17)(19,21,23)(25,27,29)	BY KES	SEE RMKS	PLUGS INTO RACEWAY RECEP WITH(1)L21–20P INTERLOCK PLUG &(3) 15–60P POWER PLUG BY KES
066.47E1	1	4–VAT LOV FRYER – ELECTRIC – S/S/S/S	208/3	38.9 EA. VAT	(4) 50A	1"C–3#6 EA. VAT	AP–3:(1,3,5)(7,9,11)(2,4,6)(8,10,12)	BY KES	SEE RMKS	PLUGS INTO RACEWAY RECEP WITH(1)L21–20P INTERLOCK PLUG &(4) 15–60P POWER PLUG BY KES
073.00E1	1	UNIVERSAL EXHAUST HOOD 3–VAT FRYER	120/1	12.5, 9.8	(2)20A–1P	1/2"C–2#12EA	AP–1:23,24	BY KES	SEE RMKS	EC TO CONN POWER TO RACEWAY FLA = 12.0 FRYER CONTROLS, 0.5 CAPTURE JET & 9.8 INDIVID. EXHAUST FAN INTERLOCK
074.00E1	1	UNIVERSAL EXHAUST HOOD 4–VAT FRYER	120/1	13.5, 9.8	(2)20A–1P	1/2"C–2#12EA	AP–1:29,41	BY KES	SEE RMKS	EC TO CONN POWER TO RACEWAY FLA = 13.0 FRYER CONTROLS, 0.5 CAPTURE JET & 9.8 INDIVID. EXHAUST FAN INTERLOCK
079.26E2	2	VENTLESS HOOD COMBI OVEN	120/1	8.0	15A	1/2"C–2#12	AP–4:14,16	BY KES	SEE RMKS	EC TO EXTEND DEDICATED CIRCUIT TO 5–15R RECEPTACLE IN CHASE
085.05E1	1	FROZEN FRY DISPENSER	120/1	9.0	20A	1/2"C–2#12	AP–1:27	5–20R	4'–0"	–
091.02E1	1	WALL MOUNT FREEZER UNIT–SINGLE WIDE–HIGH CAPACITY	120/1	5.0	20A	1/2"C–2#12	AP–5:23	5–20R	7'–6"	–
094.01E1	1	UNIVERSAL EXHAUST HOOD 2–FULL–CLAM GRILLS	120/1	7.2, 13.8	(2)20A–1P	1/2"C–2#12	AP–2:13,17	BY KES	SEE RMKS	EC TO CONN. POWER TO RACEWAY FLA = (2) 3.6 GRILL CONTROLS & 13.8 INDIVID. EXHAUST FAN INTERLOCK
096.21E1	2	36" NEXT GEN 3–PLATEN CLAMSHELL GRILL – ELECTRIC	208/3	21.7, 43.3	(2)50A	1–1/2"C– 6#4	AP–3:(14,16,18)(20,22,24) AP–4:(1,3,5)(7,9,11)	BY KES	SEE RMKS	PLUGS IN RACEWAY RECEP WITH(1)L21–20P INTERLOCK& (2) 15–50P POWER PLUG EA GRILL
097.08E1	1	MEAT FREEZER – DOUBLE WIDE – HIGH CAPACITY – RIGHT HAND	120/1	7.0	20A	1/2"C–2#12	AP–2:19	5–15R	SEE RMKS	UNIT PLUGS INTO RACEWAY RECEPTACLE
114.00E1	1	HUMIDIFIED HOLDING CABINET	208/1	9.1	20A	1/2"C–2#12	AP–5:(34,36)	SEE RMKS	5'–6"	PLUGS INTO OVERHEAD RECEPTACLE # 320C6W(B) PROVIDED BY KES – HEIGHT TO BOTTOM OF RECEPTCLE
116.23E4	2	UNIVERSAL HOLDING CABINET – HIGH DENSITY – 2–SIDED – PIN & SLEEVE	208/1	15.2	20A	1/2"C–2#12	AP–5:(4,6)(8,10)	BY KES	5'–6"	PLUGS INTO OVERHEAD RECEPTACLE # 320C6W(B) PROVIDED BY KES – HEIGHT TO BOTTOM OF RECEPTCLE
117.30E1	1	UHC TABLE COPL – 2 SIDED – 51"D x 34"W – PIN&SLEEVE	120/1	2.0	20A	1/2"C–2#12	AP–5:12	BY KES	5'–6"	PLUGS INTO OVERHEAD RECEPTACLE # 320C4W(Y) PROVIDED BY KES– HEIGHT TO BOTTOM OF RECEPTACLE
118.00E1	1	Q'ING OVEN – PIN & SLEEVE	208/1	15.4	20A	1/2"C–2#12	AP–2:(38,40)	SEE RMKS	5'–6"	PLUGS INTO OVERHEAD RECEPTACLE # 320C6W(B) PROVIDED BY KES– HEIGHT TO BOTTOM OF RECEPTACLE
118.03E1	2	Q'ING OVEN – PIN & SLEEVE	208/1	14.9	20A	1/2"C–2#12	AP–2:(18,20)(28,30)	SEE RMKS	5'–6"	PLUGS INTO OVERHEAD RECEPTACLE # 320C6W(B) PROVIDED BY KES– HEIGHT TO BOTTOM OF RECEPTACLE
122.27E1	1	NEXT GEN. UNIVERSAL RADIANT TOASTER –PIN & SLEEVE	208/1	25.2	30A	1/2"C–2#10	AP–5:(27,29)	SEE RMKS	5'–6"	PLUGS INTO OVERHEAD RECEPTACLE # 330C6W(B) PROVIDED BY KES– HEIGHT TO BOTTOM OF RECEPTACLE
122.28E2	1	NEXT GEN. UNIVERSAL CONTACT TOASTER –PIN & SLEEVE	208/1	25.2	30A	1/2"C–2#10	KES BREAKER PANEL	SEE RMKS	SEE RMKS	PLUGS INTO KES RACEWAY RECEPTACLE
123.36E1	1	ECU TABLE – COPL	208/1	4.9	15A	SEE RMKS	KES BREAKER PANEL	SEE RMKS	SEE RMKS	PLUGS INTO KES OUTLET CHASE.
123.37E1	1	BREAKER PANEL– 125 AMP – 1 PHASE – EQUIPMENT MOUNTED	120–208/1	SEE RMKS	125A	1–1/2"C–3#1	MDP:11	–		EC TO EXTEND AND CONNECT ELECTRICAL SERVICE. HARDWIRE TO KES BREAKER PANEL.
123.40E1	1	PREP TABLE – HD – 2–SIDED COPL – 38"D x 83 1/2" – PIN & SLEEVE W/ REF.	120/1	10.0	20A	SEE RMKS	KES BREAKER PANEL	SEE RMKS	SEE RMKS	PLUGS INTO KES OUTLET CHASE.
125.00E2	2	RAPID BUN STEAMER	208/1	14.3	30A	1/2"C–2#10	KES BREAKER PANEL	SEE RMKS	SEE RMKS	PLUGS INTO KES RACEWAY RECEPTACLE
130.00E3	2	COMBI OVEN	208/3	15.1	30A	1/2"C–3#10	AP–4:(2,4,6)(8,10,12)	BY KES	SEE RMKS	EC TO EXTEND CIRCUIT TO L430R9 RECEPTACLE IN CHASE
152.09E1	1	WAREWASHER – HIGH TEMP	208/3	29.4, 22.3	40A, 30A	3/4"C–3#8, 1/2"C–3#10	AP–5(31,33,35)(37,39,41)	SEE RMKS	SEE RMKS	EC TO SUPPLY 30A & 60A–3P NF DISC SW HANDLE HGT. MTD @ 6'–7" AFF PER NEC 404.8(A). LABEL 'WAREWASHER (# OF 2) IF HOBART IS ORDERED USE (2) 30A BRKRS
163.02E1	4	REMOTE ANSUL PULL	–	–	–	–	–	JB	SEE DETAILS	4" OCTAGONAL, RACO #165 OR EQUAL MUST BE USED.
171.01E1	1	WALK–IN COOLER / FREEZER FLOORLESS	120/1	10.0	20A	1/2"C–2#12	AP–2:14,16	JB	FLUSH ON CLG	JB FOR LIGHTS & DOOR HEATER– UNSWITCHED LIGHT TO BE IN BOTH COOLER & FREEZER,EC TO CONNECT POWER
171.01E2	1	WALK–IN COOLER / FREEZER FLOORLESS	–	–	–	–	–	–	VIF	EC TO FURNISH & INSTALL CONDUIT,WIRE & LIGHT FIXTURES& OTHER DEVICES INSIDE COOLER/FREEZER BOX
174.36E1	1	REMOTE CONDENSING UNIT	208/1	15.0	25A	1/2"C–2#12	AP–5:(38,40)	JB	VIF	EC TO PROVIDE 30A–2P NF DISC AT UNIT ON ROOF. CIRCUIT BREAKERS TO BE HARC RATED.
174.36E2	1	REMOTE CONDENSING UNIT	LOW VOLT WIRES	–	–	–	–	–	VIF	–
174.45E1	1	REMOTE CONDENSING UNIT	208/3	24.7	50A	3/4"C–3#8	MDP:15	JB	VIF	EC TO PROVIDE 60A–3P NF DISC AT UNIT ON ROOF. CIRCUIT BREAKERS TO BE HARC RATED.
174.45E2	1	REMOTE CONDENSING UNIT	LOW VOLT WIRES	–	–	–	–	–	VIF	–
175.18E1	1	COOLER EVAPORATOR	208/1	1.0	20A	1/2"C–2#12	AP–6:(10,12)	JB	FLUSH ON CLG	–
175.18E2	1	COOLER EVAPORATOR	LOW VOLT WIRES	–	–	–	–	–	FLUSH ON CLG	L V WIRES CONN UNIT TO EVAPS & SHALL BE ROUTED SEPARATELY FROM POWER CONDUCTORS
176.27E1	1	FREEZER EVAPORATOR	208/1	20.3	30A	1/2"C–2#10	AP–6:(14,16)	JB	FLUSH ON CLG	–
176.27E2	1	FREEZER EVAPORATOR	LOW VOLT WIRES	–	–	–	–	–	FLUSH ON CLG	L V WIRES CONN UNIT TO EVAPS & SHALL BE ROUTED SEPARATELY FROM POWER CONDUCTORS
177.03E2	1	REACH–IN REFRIGERATOR–SINGLE WIDE	120/1	2.7	20A	1/2"C–2#12	AP–2:31	SEE RMKS	SEE RMKS	EC TO EXTEND CIRCUIT TO 5–20R RECEPTACLE IN CHASE
178.05E1	3	REACH–IN FREEZER–SINGLE WIDE	120/1	11.0	20A	1/2"C–2#12	AP–1:25,30,35	5–20R	7'–6"	–
181.13E1	1	REFRIGERATOR – SPECIALTY COFFEE– 27" WIDE	120/1	3.9	20A	1/2"C–2#12	AP–2:22	BY KES	SEE RMKS	EC TO EXTEND CIRCUIT TO 5–20R RECEPTACLE IN CHASE
181.14E1	1	REFRIGERATOR – WORK TOP – 48' WIDE	120/1	5.0	20A	1/2"C–2#12	AP–2:8	5–20R	2'–0"	–
183.00E1	3	REFRIGERATOR/FREEZER – 2 DRAWER BASE – 30" W X 33" H	120/1	5.0	20A	1/2"C–2#12	AP–5:1,3,15	5–20R	2'–0"	–
183.02E2	2	REFRIGERATOR/FREEZER – 2 DRAWER BASE – 30" W X 30" H	120/1	5.0	20A	1/2"C–2#12	AP–5:5,7	BY KES	SEE RMKS	EC TO EXTEND CIRCUIT TO 5–20R RECEPTACLE IN CHASE
183.02E3	1	REFRIGERATOR/FREEZER – 2 DRAWER BASE – 30" W X 30" H	120/1	5.0	20A	1/2"C–2#12	AP–5:9	BY KES	5'–6"	PLUGS INTO OVERHEAD RECEPTACLE # 320C4W(Y) PROVIDED BY KES– HEIGHT TO BOTTOM OF RECEPTACLE
196.06E1	1	SAFE – STANDARD BLDG.	120/1	1.0	20A	1/2"C–2#12	AP–1:7	5–20R	2'–0"	PROVIDE LOCKOUT TYPE CB
196.08E1	1	BOCA	120/1 ISOLATED	8.2	20A	1/2"C–2#12IG	CP:33	IG5262	2'–0"	–
196.08E2	1	BOCA	120/1 ISOLATED	1.8	20A	1/2"C–2#12IG	CP:33	IG5262	2'–0"	–
196.08E3	1	BOCA	DATA CABLE	–	–	2" C	–	4x4x4 PB	2'–0"	EXTEND 2" CONDUIT ABOVE CLG. W/ BUSHING FOR DATA CABLES

PB = Pullbox
JB = Junction Box
EC = Electrical Contractor
VIF = Verify in Field

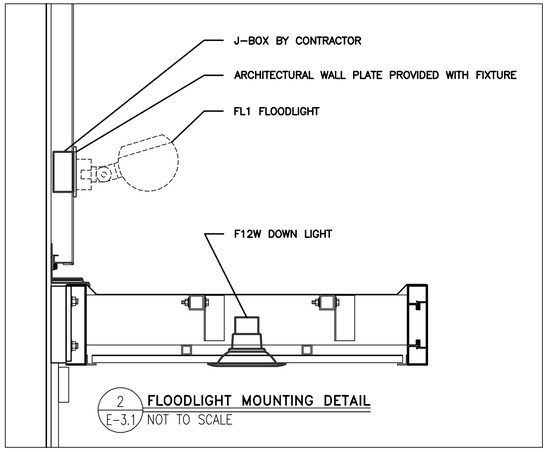
ELECTRICAL SCHEDULE

TAG #	QTY	DESCRIPTION	VOLT/PH	FLA	BRK SIZE	COND/WIRE	PNL/CCT	RECEP TYPE	HGT AFF	REQUIREMENTS & REMARKS
197.01E1	1	HAND WASH TIMER	120/1	0.1	20A	1/2"C–2#12	AP–1:33	5–20R	4'–6"	–
203.01E1	1	HEAT TREAT COMBINATION SHAKE/SUNDAE MACHINE	208/3	13.0	30A	3/4"C–3#8	AP–1:(18,20,22)	4x4x4 PB	1'–0"	RECEP #A460R9 BY KES, IF TAYLOR C602 IS ORDERED USE A 40A BRKR & #6 CONDUCTORS –EC MAKES FINAL CONN
205.08E1	1	BIC MACHINE	120/1	8.6	20A	1/2"C–2#12	AP–2:29	BY KES	SEE RMKS	EC TO EXTEND DEDICATED CIRCUIT TO 5–20R RECEPTACLE IN CHASE
205.09E2	1	FROZEN BEVERAGE DISPENSER	208/1	20.0	30A	1/2"C–2#10	AP–5:(17,19)	SEE RMKS	SEE RMKS	RECEP L6–30R IN CHASE BY KES, EC MAKES FINAL CONN
207.01E2	1	BLENDER – MCFLURRY – RAIL MOUNT	120/1	1.2	20A	1/2"C–2#12	AP–2:7	5–20R	4'–0"	
210.00E10	1	CASH RECYCLER	120/1 ISOLATED	4.4	20A	1/2"C–2#12IG	CP:27	(2) IG5262	SEE RMKS	PROVIDE RECEP. IN COUNTER–MOUNTED RACEWAY
210.00E4	1	CASH RECYCLER	120/1 ISOLATED	4.4	20A	1/2"C–2#12IG	CP:24	(2) IG5262	2'–10"	–
211.00E6	1	DELIVERY TABLETS	120/1	3.0	20A	1/2"C–2#12	AP–5:21	(2) 5–20R	5'–6"	–
214.02E1	1	82" 44U STATIONARY RACK	120/1 ISOLATED	5.0	20A	1/2"C–2#12IG	CP:11	IG4700	2'–0"	FOR NETWORK HARDWARE (GATEWAY/CONTROLLER, SWITCHES & HUBS)
214.02E3	1	82" 44U STATIONARY RACK	120/1 ISOLATED	10.0	20A	1/2"C–2#12IG	CP:15	IG4700	2'–0"	FOR POS SYSTEM SERVERS
214.02E4	1	82" 44U STATIONARY RACK	120/1 ISOLATED	12.0	20A	1/2"C–2#12IG	CP:17	IG2310	4'–0"	FOR OTHER POS SYSTEM & BACK OFFICE HARDWARE
214.02E5	1	82" 44U STATIONARY RACK	DATA CABLE	–	–	–	–	8x6x4 PB	7'–6"	EXTEND (2) 2 1/2" CONDUIT ABOVE CLG. W/BUSHING FOR DATA CABLES
214.02E6	1	82" 44U STATIONARY RACK	120/1 ISOLATED	14.0	30A	1/2"C–2#10IG	CP:12	IG2610	3'–0"	FOR POS SYSTEM UPS
215.00E12	1	POS REGISTER – FRONT COUNTER	120/1 ISOLATED	3.0 EA.	–	3/4"C–2#12IG	CP:19	IG4700	SEE RMKS	PROVIDE IG RECEP. IN COUNTER–MOUNTED RACEWAY
215.00E3	1	POS REGISTER – FRONT COUNTER	DATA CABLE	–	–	–	–	4x4x4 PB	10"	EXTEND 2" CONDUIT TO ABOVE CEILING FOR POS DATA CABLES
215.02E1	1	POS REGISTER – 2 WINDOW D/T	120/1 ISOLATED	3.0 EA.	SEE RMKS	1/2"C–2#12IG	SEE REMARKS	(2)IG4700	2'–5"	IN ORDER BOOTH, CONNECT TO CP:7 – IF INCLUDED IN PRESENTERS BOOTH, CONNECT TO CP:8
215.02E10	2	POS REGISTER – 2 WINDOW D/T	120/1 ISOLATED	3.0 EA.	20A	1/2"C–2#12IG	CP:1	BY KES	SEE RMKS	EC TO EXTEND CIRCUIT TO IG4700 RECEPTACLE IN CHASE
215.02E12	1	POS REGISTER – 2 WINDOW D/T	–	–	–	–	–	18x12x4 PB	10"	REFER TO D/T LOW VOLTAGE CONDUIT DIAGRAM FOR CONDUITS UNDER SLAB AND EXTEND (2) 2 1/2"C. TO ABOVE CLG.
215.02E13	2	POS REGISTER – 2 WINDOW D/T	–	–	–	–	–	4x4x4 PB	10"	EXTEND 1 1/2"C. UNDER SLAB TO 217.11E1 AND 2 1/2" C. TO ABOVE CEILING FOR POS DATA CABLES
215.04E1	2	POS – KVS MONITOR	120/1 ISOLATED	1.5 EA.	20A	1/2"C–2#12IG	CP:8	IG4700	FLUSH ON CLG	–
215.04E4	2	POS – KVS MONITOR	120/1 ISOLATED	1.5	20A	1/2"C–2#12IG	CP:26	SEE RMKS	SEE RMKS	EC TO EXTEND CIRCUIT TO IG4700 RECEPTACLE IN OEP
215.04E5	2	POS – KVS MONITOR	120/1 ISOLATED	1.5 EA.	20A	1/2"C–2#12IG	CP:3	SEE RMKS	SEE RMKS	EC TO EXTEND CIRCUIT TO IG4700 RECEPTACLE IN CHASE
215.04E7	2	POS – KVS MONITOR	120/1 ISOLATED	1.5 EA.	20A	1/2"C–2#12IG	CP:23	IG4700	5'–6"	–
215.04E8	1	POS – KVS MONITOR	DATA CABLE	–	–	–	–	4x4x4 PB	4'–0"	EXTEND 2" CONDUIT ABOVE CEILING. CABLE FURNISHED AND INSTALLED BY POS SYSTEM SUPPLIER
215.07E1	1	POS REGISTER – DELIVERY	120/1 ISOLATED	3.0	20A	1/2"C–2#12IG	CP:23	IG4700	3'–6"	
215.07E3	1	POS REGISTER – DELIVERY	DATA CABLE	–	–	–	–	4x4x4 PB	3'–6"	EXTEND 2" CONDUIT TO ABOVE CEILING FOR POS DATA CABLES
216.00E13	2	POS – VIDEO MONITOR	120/1 ISOLATED	1.5 EA.	20A	1/2"C–2#12IG	CP:3	SEE RMKS	SEE RMKS	EC TO EXTEND CIRCUIT TO IG4700 RECEPTACLE IN CHASE
216.00E14	4	POS – VIDEO MONITOR	120/1 ISOLATED	1.5 EA.	20A	1/2"C–2#12IG	CP:9	IG4700	SEE RMKS	EXTEND CONDUIT DOWN GRILL HOOD SHROUD AND PROVIDE IG4700 RECEPTACLE
216.00E7	3	POS – VIDEO MONITOR	120/1 ISOLATED	1.5 EA.	20A	1/2"C–2#12IG	CP:1	BY KES	SEE RMKS	EC TO EXTEND CIRCUIT TO IG4700 RECEPTACLE IN CHASE
217.03E4	1	POS – COD OPTICAL ISOLATOR	120/1 ISOLATED	1.0	20A	1/2"C–2#12IG	CP:14	IG5262	7'–6"	–
217.10E1	2	REMOTE DETECTOR LOOP	–	–	–	–	–	–	–	1 1/2"CONDUIT–CONN TO PULLBOX#215.03E5,215.01E4, OR 215.02E12 PER DRIVE–THRU CONFIG–SEE SITE PLAN
217.11E1	2	DETECTOR LOOP	–	–	–	–	–	–	–	1 1/2"CONDUIT–CONN TO PULLBOX#215.02E5,215.02E13, OR 215.02E4 PER DRIVE–THRU CONFIG–SEE SITE PLAN
217.13E1	1	MERGE POINT MONITOR (DOUBLE DRIVE THRU)	120/1	2.0	20A	1/2"C–2#12	AP–1:11	5–20R	3'–6"	DO NOT POWER FROM POS CIRCUIT
217.13E2	2	MERGE POINT MONITOR (DOUBLE DRIVE THRU)	120/1	2.0	20A	1/2"C–2#12	AP–1:11	BY KES	SEE RMKS	EC TO EXTEND CIRCUIT TO 5–20R RECEPTACLE IN CHASE
217.14E1	1	POS– VIDEO MONITOR (DOUBLE DRIVE THRU)	120/1 ISOLATED	1.5	SEE RMKS	1/2"C–2#12IG	CP:7	IG4700	3'–6"	–
217.18E1	3	HAND HELD ORDER TAKER AND MANAGEMENT OF SHIFT EQUIPMENT	120/1	5.0	20A	1/2"C–2#12	AP–1:15	5–20R	4'–6"	–
217.19E2	1	WIRELESS HEADSET BASE STATION	120/1 ISOLATED	1.9	20A	1/2"C–2#12IG	CP:1	IG4700	4'–6"	
217.19E3	1	WIRELESS HEADSET BASE STATION	DATA CABLE	–	–	–	–	4x4x4 PB	5'–0"	
217.24E1	1	DANGER POINT MONITOR (DOUBLE DRIVE–THRU)	120/1	2.0	20A	1/2"C–2#12	AP–1:11	5–20R	8'–0"	DO NOT POWER FROM POS CIRCUIT
217.26E1	1	ZOOM TIMER	120/1 ISOLATED	6.0	20A	1/2"C–2#12IG	CP:10	(2) IG4700	7'–6"	–
217.26E2	1	ZOOM TIMER	DATA CABLE	–	–	–	–	JB	7'–6"	JB W/ 1–1/2" C. TO TERMINATE ABOVE CEILING W/BUSHINGS. FOR DATA CABLES. SUPPLY W/ GROMMETED OPENING IN COVER PLATE
219.00E10	1	POS – RECEIPT PRINTER	120/1 ISOLATED	0.7	20A	3/4"C–2#12IG	SEE RMKS	IG4700	SEE RMKS	PROVIDE IG RECEP. IN COUNTER–MOUNTED RACEWAY, POWER FROM SAME CIRCUIT AS 215.00E12
219.00E3	1	POS – RECEIPT PRINTER/CASHLESS	120/1 ISOLATED	0.7	20A	1/2"C–2#12IG	CP:4	IG4700	2'–0"	–
219.00E7	2	POS – RECEIPT PRINTER	120/1 ISOLATED	0.7	20A	1/2"C–2#12IG	CP:3	BY KES	SEE RMKS	EC TO EXTEND IG CIRCUIT TO IG4700 RECEPTACLE IN KES OUTLET CHASE.
219.05E2	2	STICKY LABEL PRINTER	120/1 ISOLATED	0.7	20A	1/2"C–2#12IG	CP:1	BY KES	SEE RMKS	EC TO EXTEND IG CIRCUIT TO IG4700 RECEPTACLE IN CHASE
219.05E3	1	STICKY LABEL PRINTER	120/1 ISOLATED	0.7	20A	1/2"C–2#12IG	CP:3	IG4700	3'–2"	–
219.05E6	2	STICKY LABEL PRINTER	120/1 ISOLATED	0.7	20A	1/2"C–2#12IG	CP:3	IG4700	FLUSH ON CLG	–
219.06E1	1	LABELING SYSTEM	120/1 ISOLATED	2.0	20A	1/2"C–2#12IG	CP:8	IG5261	2'–0"	–
220.00E1	1	POS – COIN DISPENSER	120/1 ISOLATED	0.75	20A	1/2"C–2#12IG	CP:7	IG4700	2'–0"	–
221.09E1	1	O/O EQUIPMENT RACK	120/1 ISOLATED	4.0	20A	1/2"C–2#12IG	CP:31	IG5262	8'–0"	–
221.09E2	1	O/O EQUIPMENT RACK	DATA CABLE	–	–	2" C	–	4x4x4 PB	8'–0"	EXTEND 2" CONDUIT ABOVE CLG. W/ BUSHING FOR DATA CABLES
222.01E1	1	TIME CLOCK	120/1 ISOLATED	0.5	20A	1/2"C–2#12IG	CP:28	IG4700	4'–0"	–
222.01E2	1	TIME CLOCK	DATA CABLE	–	–	–	–	JB	4'–0"	EXTEND 1" CONDUIT ABOVE CEILING
223.07E1	1	WASHER	120/1	8.0	15A	1/2"C–2#12	AP–1:13	5–15R	3'–6"	–
225.03E3	2	OFFICE PACKAGE/DESK UNIT	120/1 ISOLATED	10.0	20A	1/2"C–2#12IG	CP:20,22	IG5262	4'–6"	FOR MONITOR, PRINTER AND THIN CLIENT
225.03E4	1	OFFICE PACKAGE/DESK UNIT

PB = Pullbox
JB = Junction Box
EC = Electrical Contractor
VIF = Verify in Field

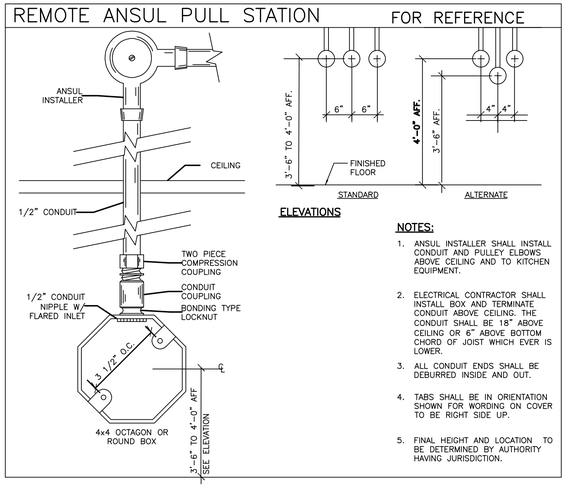
ELECTRICAL SCHEDULE

TAG #	QTY	DESCRIPTION	VOLT/PH	FLA	BRK SIZE	COND/WIRE	PNL/CCT	RECEP TYPE	HGT AFF	REQUIREMENTS & REMARKS
701.34E1	1	ACCESS CONTROL PANEL	120/1	2.0	20A	1/2"C-2#12	LP-1:16	JB	8'-0"	ROUTE LOW VOLTAGE WIRES TO DOOR BUTTON, HORN AND DOOR STRIKE AS REQUIRED. SUPPLY WITH 4 RELAY CONTROL BOARD.



2 FLOODLIGHT MOUNTING DETAIL
E-3.1 NOT TO SCALE

REMOTE ANSUL PULL STATION FOR REFERENCE



ELEVATIONS

NOTES:

1. ANSUL INSTALLER SHALL INSTALL CONDUIT AND PULLEY ELBOWS ABOVE CEILING AND TO KITCHEN EQUIPMENT.
2. ELECTRICAL CONTRACTOR SHALL INSTALL BOX AND TERMINATE CONDUIT ABOVE CEILING. THE CONDUIT SHALL BE 18" ABOVE CEILING OR 6" ABOVE BOTTOM CHORD OF JOIST WHICH EVER IS LOWER.
3. ALL CONDUIT ENDS SHALL BE DEBURRED INSIDE AND OUT.
4. TABS SHALL BE IN ORIENTATION SHOWN FOR WORDING ON COVER TO BE RIGHT SIDE UP.
5. FINAL HEIGHT AND LOCATION TO BE DETERMINED BY AUTHORITY HAVING JURISDICTION.

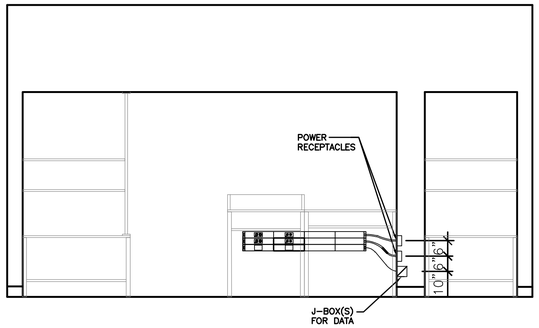
GENERAL ELECTRICAL NOTES:

POST CONSTRUCTION ENERGY CODE REQUIREMENTS:

PC1. EC SHALL FURNISH AS-BUILT DRAWINGS FOR ELECTRICAL POWER SYSTEMS WITHIN 30 DAYS OF SYSTEM ACCEPTANCE.

PC2. EC SHALL FURNISH O&M INSTRUCTIONS FOR SYSTEMS AND EQUIPMENT TO THE BUILDING OWNER OR DESIGNATED REPRESENTATIVE.

PC3. EC SHALL PROVIDE WRITTEN VERIFICATION THAT LIGHTING SYSTEMS HAVE BEEN TESTED TO ENSURE PROPER CALIBRATION, ADJUSTMENT, PROGRAMMING AND OPERATION.



SYMBOL	CATALOG #	DESCRIPTION
	HBLALU57DR & IG4700	RECEPTACLE COVERPLATE WITH ORANGE, TWIST LOCK, ISOLATED GROUND DUPLEX RECEPTACLE
	HBLALU57DR & 5-20R FOR BAKED GOODS AND IG5262 FOR CASH	RECEPTACLE COVERPLATE WITH STRAIGHT BLADE RECEPTACLE
	HBLALU57LPB	COMMUNICATIONS COVERPLATE
	HBLALU7620B02M290	2' SECTION OF RACEWAY. INCLUDES COUPLERS
	HBLALU7620B03M290	3' SECTION OF RACEWAY. INCLUDES COUPLERS
	HBLALU7610B2M2	SERVICE ENTRANCE FITTING & BUSHING FOR DATA CABLES
	HBLALU7610B	BLANK END FITTING
N/A	HBLALU5701	COUPLER (INCLUDED WITH RACEWAY SECTION)
N/A	HBLALU5709	GROUND ADAPTER

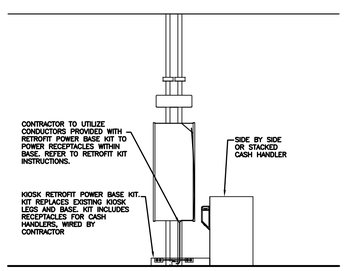
NOTES:
1. REFER TO SERVICE POD MANUFACTURER INSTRUCTIONS FOR EXACT PLACEMENT OF RACEWAY

2. RACEWAY AND RECEPTACLES TO BE PROVIDED WITH SERVICE POD, INSTALLED BY CONTRACTOR.

3. DETAIL SHOWN IS A TYPICAL CONFIGURATION ONLY. SITE SPECIFICS MIGHT CAUSE DEVIATIONS.

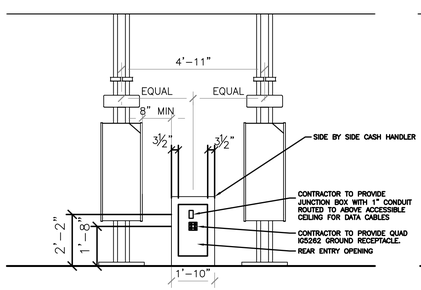
4. PART NUMBERS SHOWN REFLECT HUBBELL, SOME SUPPIERS MAY USE WIREMOLE EQUIVALENT.

1 SERVICE POD RACEWAY DETAIL
E-3.1 NOT TO SCALE



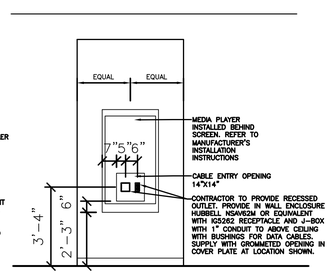
NOTES:
1. THIS EXAMPLE IS FOR A SIDE BY SIDE CASH HANDLER THAT DOES NOT HAVE A GC WALL BEHIND IT AND IS NEXT TO A KIOSK. IT IS ALSO INTENDED FOR ALL STACKED CASH HANDLERS.
2. EACH SIDE BY SIDE CASH HANDLER UTILIZES 3 PLUGS AND ADDS 4.4 AMPS OF LOAD TO THE KIOSK CIRCUIT.
3. EACH STACKED CASH HANDLER UTILIZED 2 PLUGS AND ADDS 3.6 AMPS OF LOAD TO THE KIOSK CIRCUIT.
4. ONLY 1 SIDE BY SIDE CAN BE CONNECTED TO A KIOSK, HOWEVER TWO STACKED UNITS CAN BE CONNECTED. REFER TO DECOR PLANS FOR EXACT CONFIGURATIONS.

5 TYP. CASH HANDLER POWER DETAIL
E-3.1 NOT TO SCALE



NOTES:
1. THIS EXAMPLE IS FOR A SIDE BY SIDE CASH HANDLER WITH THE REAR OF THE UNIT FACING A FULL HEIGHT GC BUILT WALL.
2. EACH SIDE BY SIDE CASH HANDLER UTILIZES 3 PLUGS AND ADDS 4.4 AMPS OF LOAD.

4 CASH HANDLER POWER DETAIL W/REAR TO WALL
E-3.1 NOT TO SCALE



NOTES:
1. THIS EXAMPLE IS FOR A WALL MOUNTED DIGITAL MERCHANDISER.

3 MERC POWER DETAIL
E-3.1 NOT TO SCALE

GENERAL ELECTRICAL NOTES:

INSTALLATION METHODS:

M1. ALL ELECTRICAL MATERIAL USED ON THIS PROJECT SHALL BE "UL" LISTED AND LABELED.

M2. ALL DIMENSIONS SHOWN ARE TAKEN FROM FACE OF GYP BOARD/PLYWOOD. THE EC SHALL MAKE NECESSARY DIMENSIONAL ALLOWANCES. ALL DIMENSIONS SHOWN ARE TO CENTER LINE OF OUTLET BOX AND/OR RECEPTACLE UNLESS NOTED OTHERWISE.

M3. ALL J-BOXES, DCOs, AND OTHER ELECTRICAL DEVICES SHOWN SHALL BE RECESSED INTO A WALL, FLOOR OR CEILING UNLESS SPECIFICALLY NOTED OTHERWISE.

M4. ALL RECEPTACLES (EXCEPT SPECIFIED HUBBELL PIN & SLEEVE TYPES) SHALL BE FURNISHED BY THE EC. THE RECEPTACLES INCLUDING PIN AND SLEEVE TYPE SHALL BE INSTALLED BY THE EC.

M5. EC SHALL PROVIDE STAINLESS STEEL COVER PLATES ON ALL RECEPTACLES AND J-BOXES. ADDITIONALLY, EC SHALL PROVIDE ORANGE NYLON COVER PLATES MARKED "COMPUTER ONLY" ON ALL ISOLATED GROUND/DEDICATED CIRCUIT RECEPTACLES. PURCHASE PJ8CO (ONE DUPLEX) OR PJ82CO (TWO DUPLEX) FROM HUBBELL.

M6. ROUGH-INS FOR OPTIONAL EQUIPMENT ARE SHOWN ON THESE SHEETS. EC SHALL VERIFY WITH McDONALD'S PROJECT MANAGER WHICH OPTIONAL EQUIPMENT IS TO BE INCLUDED AND INSTALL OPTIONAL ROUGH-INS AS REQUIRED. PRICING FOR OPTIONAL ROUGH-INS SHALL BE INCLUDED IN BID AND CALLED OUT AS OPTIONAL.

M7. EC SHALL COORDINATE WITH KITCHEN EQUIPMENT SUPPLIER, MECHANICAL CONTRACTOR AND GC FOR FINAL LOCATIONS AND CONNECTION REQUIREMENTS OF ALL EQUIPMENT PRIOR TO INSTALLATION OF ANY CONDUIT AND/OR STUB-UP LOCATIONS.

M8. CEILING MOUNTED ECONOMY OEP BOX IS FURNISHED BY McDONALD'S, AND INSTALLED BY THE GC. CORD AND PLUG SET FURNISHED BY KES AND INSTALLED BY THE EC.

M9. FOR GRILLS, FRYERS, AND ANSUL SYSTEMS, EC SHALL EXTEND CONDUIT AND CONDUCTORS DOWN CHASE OR WALL TO TERMINAL BLOCK MOUNTED ON EQUIPMENT AND MAKE FINAL CONNECTIONS TO TERMINAL BLOCKS.

M10. ALL HOLES IN THE FRONT COUNTER FOR THE POS CORDS AND CABLES SHALL BE LOCATED BY OWNER AND DRILLED BY GC.

M11. ALL ELECTRICAL CONDUCTORS SHALL BE CONNECTED TO RECEPTACLES USING ONLY THE TERMINAL SCREWS. RECEPTACLE BACK WIRE/QUICK CONNECTIONS SHALL NOT BE USED. HUBBELL EDGE CONNECT IS APPROVED ALTERNATE.

M12. EC SHALL PROVIDE 208V HEAT TRACE ON THE FREEZER EVAPORATOR CONDENSATE DRAIN LINE. HEAT TRACE SHALL OPERATE CONTINUOUSLY. EC SHALL WIRE HEAT TRACE TO FREEZER EVAPORATOR POWER SUPPLY. A SEPARATE CIRCUIT FOR HEAT TRACE IS NOT REQUIRED. VERIFY HEAT TRACE REQUIREMENTS WITH EVAPORATOR MANUFACTURER

M13. POWER AND CONTROL CORDS ARE FURNISHED WITH KITCHEN APPLIANCES. THE EC SHALL CONNECT CORD SETS TO APPLIANCES AS REQUIRED.

M14. GC SHALL NOT INSTALL CEILING TILE IN AREAS OF THE BEVERAGE BAR REFRIGERATION LINES AND EQUIPMENT PENETRATION LOCATIONS UNTIL THE LINES HAVE BEEN INSTALLED. THE CEILING TILE INSTALLER SHALL RETURN AND INSTALL THE TILES AFTER THE REFRIGERATION LINES HAVE BEEN INSTALLED AND TESTED.

UTILITIES:

U1. INCOMING SERVICE SHALL BE 208Y/120V, 3 PHASE, 4 WIRE. ANY DEVIATIONS TO THIS SERVICE TYPE SHALL NOT BE PERMITTED UNLESS APPROVED IN WRITING BY McDONALD'S.

U2. THE EC SHALL ARRANGE WITH THE ELECTRIC, TELEPHONE, AND OTHER UTILITY COMPANIES FOR INCOMING SERVICE REQUIREMENTS AND SHALL INCLUDE ALL COSTS IN BASE BID.

U3. THE EC SHALL VERIFY EXACT METHODS AND REQUIREMENTS FOR ELECTRICAL SERVICE WITH LOCAL UTILITY COMPANY. CURRENT TRANSFORMERS SHALL BE INSTALLED OUTSIDE RESTAURANT, LOCATE INSIDE ONLY IF REQUIRED BY UTILITY COMPANY OR LOCAL AUTHORITIES.

U4. PROVIDE CONCRETE PAD IF TRANSFORMER IS LOCATED ON GRADE AND PROVIDE SECONDARY SERVICE FEEDER AND CONDUITS TO PANEL MDP AS PER LOCAL UTILITY REQUIREMENTS.

U5. THE EC/GC/ACM SHALL OBTAIN AVAILABLE SHORT CIRCUIT CURRENT FROM THE LOCAL UTILITY COMPANY. THE EC/GC/ACM SHALL ADVISE IN WRITING (FAX SUPPLIER THE UTILITY LETTER) THE AVAILABLE AMOUNT OF FAULT CURRENT. THE PANELBOARD SUPPLIER SHALL BE RESPONSIBLE TO VERIFY THAT THE ELECTRICAL EQUIPMENT SHIPPED HAS APPROPRIATE ELECTRICAL RATINGS WHICH ARE EQUAL TO OR GREATER THAN THE AVAILABLE AMOUNT OF FAULT CURRENT AT THE SITE.

U6. EC AND ACM OR OWNER/OPERATOR AND ACM SHALL COORDINATE WITH LOCAL PHONE COMPANY TO PROVIDE A 10 PAIR (OR MORE) COPPER TELEPHONE CABLE FROM THE TELEPHONE UTILITY EASEMENT TO THE RESTAURANT TELEPHONE DEMARCATION POINT. IF THE TELEPHONE PANEL/BOX IS LOCATED INSIDE THE RESTAURANT, EC SHALL PROVIDE (2) EMPTY 3/4" CONDUITS FROM THE TELEPHONE PANEL/BOX UP TO ABOVE THE CEILING FOR FUTURE TELEPHONE CABLE INSTALLATION. ADDITIONALLY, THE EC SHALL PROVIDE AN EMPTY 3/4" CONDUIT FROM THE TELEPHONE PANEL/BOX TO THE LOCATION OF THE FUTURE INTERNET SERVER (VERIFY LOCATION WITH PM). EC SHALL CONNECT, INSTALL AND INCORPORATE ALL OTHER REQUIREMENTS NECESSARY FOR COMPLETE AND OPERATIONAL TELEPHONE SYSTEM(S) FOR THIS SITE. THE REMAINING UNUSED TELEPHONE CONDUCTOR PAIRS SHALL BE CAPPED AND LEFT IN PLACE FOR FUTURE USE. THE TELEPHONE PANEL/BOX SHALL BE GROUNDED AS SHOWN IN THE "BUILDING ELECTRICAL GROUNDING DETAIL."

U7. EC SHALL PROVIDE A 4" SCHEDULE 40/80 PVC CONDUIT THAT IS SUITABLE FOR DIRECT BURIAL FROM BUILDING TO UTILITY EASEMENT/ROW IN UTILITY CABLING/CONDUIT TRENCH PROVIDED BY GC. CONDUIT SHALL RUN FROM INCOMING TELCOM LOCATION AT BUILDING TO TELECOM PEDESTAL LOCATION IN UTILITY EASEMENT/ROW. VERIFY EXACT LOCATIONS IN FIELD WITH AREA CONSTRUCTION MANAGER AND TELECOM UTILITY PROVIDER PRIOR TO INSTALLATION.

INSTALLATION NOTES:

1. IF TELCOM CONDUIT IS TERMINATED WITHIN BUILDING, PVC SHALL TRANSITION TO HWG/RMC TYPE CONDUIT PRIOR TO RISING ABOVE FINISHED SLAB.
2. PROVIDE THERMOPLASTIC BUSHINGS AT BOTH ENDS OF CONDUIT FOR CABLING PROTECTION.
3. IF 90 DEGREE BENDS ARE REQUIRED, CONTRACTOR SHALL PROVIDE WIDE SWEEPING BENDS TO PREVENT BENDING/DAMAGE TO CABLE
4. ALL COMMUNICATIONS CABLING SHALL BE PULLED VIA THIS CONDUIT.
5. INSTALL A MINIMUM OF 6 PULL WIRES IN CONDUIT TO ALLOW FOR THE INSTALLATION OF FUTURE CABLING. USE NON-DEGRADING POLYPROPYLENE OR MONOFILAMENT PLASTIC LINE OR #12 AWGT SOLID COPPER CONDUCTORS WITH NOT LESS THAN 200 LBF TENSILE STRENGTH. PROVIDE AT LEAST 12 INCHES OF SLACK AT EACH END OF PULL WIRE.
6. AFTER INSTALLATION OF COMMUNICATIONS CABLING AND PULLSTRINGS/WIRES, CONTRACTOR SHALL SEAL BOTH ENDS OF CONDUIT TO PREVENT INTRUSION FROM WEATHER, RODENTS, DEBRIS, ETC. SEAL SHALL BE OF TYPE TO ALLOW FOR REMOVAL FOR INSTALLATION OF FUTURE CABLING

CONDUIT AND WIRE:

W1. THE FOLLOWING WIRING METHODS SHALL NOT BE USED: NON-METALLIC SHEATHED CABLE (ROMEX, NM, NMC, & NMS), ARMORED CABLE TYPE AC (BX), ELECTRICAL NON-METALLIC TUBING, TYPE ENT (SMURF-TUBE).

W2. CONDUIT RUNS MAY BE COMBINED EXCEPT WHERE ISOLATED GROUNDS ARE USED. IG CIRCUITS SHALL BE RUN IN SEPARATE CONDUITS. ALL HOME RUNS SHALL BE SIZED BASED ON DERATED CONDUCTOR AMPACITIES AND INCREASE CONDUIT AND WIRE SIZE AS REQUIRED BY NEC SECTION 310 REQUIREMENTS.

W3. CONDUIT SHALL HAVE A MAXIMUM OF 4 BENDS WITHOUT A JUNCTION BOX TO PREVENT DAMAGE TO CABLE DURING PULLING. THE EC SHALL PIGTAIL #12 PULL WIRE AT EACH END FOR INSTALLER TO PULL CABLE. ALL LOW VOLTAGE CONDUIT STUB-UPS SHALL BE PROVIDED WITH A BUSHING.

W4. MINIMUM WIRE SIZE SHALL BE #12 AWG COPPER UNLESS NOTED OTHERWISE. MINIMUM CONDUIT SIZE SHALL BE 1/2" UNLESS NOTED OTHERWISE. WIRES INSTALLED UNDERGROUND OR OUTDOORS SHALL BE THW.

W5. CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID COPPER. CONDUCTORS #8 AND LARGER SHALL BE STRANDED COPPER. ALUMINUM CONDUCTORS SHALL NOT BE UTILIZED FOR FEEDER OR BRANCH CIRCUIT DISTRIBUTION.

W6. RACEWAYS SHALL BE ANY OF THE FOLLOWING MATERIALS, INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES:

OUTDOORS: (FOR SPECIFIC APPLICATIONS AND APPROPRIATE FITTINGS, SEE TABLE W6)

1. EXPOSED: RMC, IMC.
2. CONCEALED: RMC, IMC.
3. BELOW GRADE, SINGLE RUN: RNC, RMC.
4. BELOW GRADE, GROUPED: RNC, RMC.
5. CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC, ELECTRIC SOLENOID, OR MOTOR-DRIVEN EQUIPMENT): LFMC.
6. BOXES AND ENCLOSURES: NEMA 250, TYPE 3R OR 4.

INDOORS: (FOR SPECIFIC APPLICATIONS AND APPROPRIATE FITTINGS, SEE TABLE W6)

1. EXPOSED: EMT, IMC.
2. CONCEALED: EMT, IMC.

(CONTINUED ON TOP)

3. CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC, ELECTRIC SOLENOID, OR MOTOR-DRIVEN EQUIPMENT): FMC; EXCEPT USE LFMC IN DAMP OR WET LOCATIONS.
4. DAMP OR WET LOCATIONS: RIGID STEEL CONDUIT.
5. BOXES AND ENCLOSURES: NEMA 250, TYPE 1, EXCEPT AS FOLLOWS: A. DAMP, WET OR KITCHEN LOCATIONS: NEMA 250, TYPE 4, STAINLESS STEEL.

TABLE W6:

LOCATION	208V.	480V.	LOW ENERGY*
EXPOSED			
INDOORS	< 1" EMT COMPRESS. FTGS >1.25" IMC THREADED FTGS	IMC THREADED FTGS	EMT COMPR. FTGS
OUTDOORS	RMC OR IMC THREADED FTGS	RMC OR IMC THREADED FTGS	RMC OR IMC THREADED FTGS
CONCEALED			
WALLS	<2" EMT SET SCREW FTGS >2.5" IMC THREADED FTGS	<2" EMT SET SCREW. FTGS >2.5" IMC THREADED FTGS	EMT 1/2"- 2" SET SCREW FTGS 2.5" - 4" COMPR. FTGS
AIR HANDLING CEILING/SPACE	<2" EMT COMPR. FTGS >2.5" IMC THREADED. FTGS	2" EMT COMPR. FTGS < >2.5" IMC THREADED. FTGS	EMT COMPR. FTGS
NON AIR HANDLING CEILING/SPACE	<2" EMT SET SCREW FTGS >2.5" IMC THREADED. FTGS	<2" EMT COMPR. FTGS >2.5" IMC THREADED. FTGS	EMT 1/2" - 2" SET SCREW FTGS 2.5"- 4" COMPR. FTGS
BELOW GRADE			
INTERIOR	IMC THREADED FTGS OR SCHEDULE 40 OR 80 PVC	IMC THREADED FTGS	IMC THREADED FTGS SCHEDULE 40 OR 80 PVC
EXTERIOR	SCHEDULE 40 OR 80 PVC OR RMC THREADED FTGS	SCHEDULE 40 OR 80 PVC OR RMC THREADED FTGS	SCHEDULE 40 OR 80 PVC OR RMC THREADED FTGS

W7. ALL CONDUITS PENETRATING THE FREEZER/COOLER BOX SHALL BE SEALED IN COMPLIANCE NEC SECTION 300 AND THE FREEZER/COOLER BOX MANUFACTURERS REQUIREMENTS.

W8. PROVIDE THREE (3) 3/4" EMPTY CONDUITS FROM PANEL LP-1 UP TO THE CEILING SPACE AND CAP FOR FUTURE USE.

GROUNDING:

G1. ALL BRANCH AND FEEDER CIRCUITS SHALL BE GROUNDED BY TWO METHODS. THE FIRST METHOD SHALL INCLUDE AN INSULATED COPPER EQUIPMENT GROUNDING CONDUCTOR CONTAINED WITHIN THE SAME CONDUIT AS THE PHASE CIRCUIT CONDUCTORS AND SIZED PER NEC SECTION 250 REQUIREMENTS. THIS INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL HAVE ONE END PROPERLY TERMINATED AT THE EQUIPMENT GROUND BUS IN THE CORRESPONDING CIRCUIT BREAKER PANEL, AND THE OTHER END TERMINATED AT THE GROUNDING CONTACT OF A GROUNDING RECEPTACLE AND TO THE JUNCTION BOX OR TO AN EQUIPMENT CABINET, AS APPLICABLE. THE SECOND METHOD PROVIDES EQUIPMENT GROUNDING VIA METALLIC CONDUIT THAT IS CONNECTED AND TERMINATED IN FITTINGS LISTED FOR GROUNDING PER NEC SECTION 250 REQUIREMENTS. BOTH GROUNDING METHODS ARE REQUIRED IN A MCDONALD'S RESTAURANT. ISOLATED GROUND SHALL BE INSTALLED WHERE INDICATED ON PLAN AND AS SHOWN IN POS ISOLATED GROUND/DEDICATED CIRCUIT DETAIL ON SHEET E4.2.

G2. THE BUILDING GROUNDING SYSTEM SHALL COMPLY WITH NEC ARTICLE 250, MCDONALD'S SPECIFICATIONS, AND SHEET E4.2. CAUTION: IT IS A SAFETY HAZARD AND AN NEC VIOLATION TO HAVE ANY NEUTRAL TO GROUND CONNECTIONS BEYOND THE MAIN ELECTRICAL DISCONNECT MEANS. MCDONALD'S GROUNDING STANDARDS PURPOSELY EXCEED THOSE GIVEN BY THE NEC. THE EC SHALL PROVIDE A BUILDING GROUNDING SYSTEM MEETING NEC SECTION 250 REQUIREMENTS AS WELL AS MCDONALD'S STANDARDS.

G3. EC SHALL REFER TO "POS ISOLATED GROUND/DEDICATED CIRCUIT DETAIL, SHEET E4.2, FOR REQUIRED WIRING REQUIREMENTS OF COMPUTER PANEL CP.

G4. METAL RACEWAYS CONTAINING A GROUNDING ELECTRODE CONDUCTOR SHALL BE BONDED AT BOTH ENDS AS REQUIRED BY NEC SECTION 250 REQUIREMENTS.

TEMPERATURE CONTROLS:

T1. REMOTE TEMPERATURE SENSORS: EC SHALL PROVIDE 1/2" CONDUIT FROM JUNCTION BOX ABOVE CEILING DOWN TO SENSOR MOUNTED AT 4'-0" TO 4'-6" AFF.

T2. SEE DETAIL ON SHEET M3.0. FOR SENSOR MOUNTING DETAIL. LOCATION OF WALL MOUNTED TEMPERATURE SENSORS ARE SHOWN ON SHEET M1.2 AND E2.0.

T3. WHEN WIRING FOR PROGRAMMABLE THERMOSTATS AND REMOTE SENSORS IS NOT IN A CONDUIT, THE WIRING SHALL BE RUN TO THE UNDERSIDE OF THE ROOF DECK. NONE OF THE WIRING SHALL BE ROUTED OVER FLUORESCENT BALLASTS, POWER BOXES OR IN A CONDUIT WITH LINE VOLTAGE WIRING AS ELECTRICAL INTERFERENCE (NOISE) WILL CAUSE ERRATIC CONTROL OPERATION. ALL THERMOSTATS SHALL BE MOUNTED 4'-0" AFF.

FLAT PANEL TELEVISIONS:

TV1. EC SHALL PROVIDE A DUPLEX RECEPTACLE AND A LOW VOLTAGE BROADBAND CONNECTION FOR THE INSTALLATION OF FLAT PANEL TELEVISIONS. COORDINATE EXACT LOCATIONS WITH DECOR COMPANY. FOR BROADBAND CONNECTION, EC SHALL PROVIDE A 4 X 4 BOX WITH A 3/4" CONDUIT STUB-UP WITH A BUSHING INTO ACCESSIBLE CEILING SPACE.

ELECTRICAL PANELS:

E1. THE EC SHALL BE RESPONSIBLE FOR BALANCING THE LOADS ON ALL PANELS.

E2. THE EC SHALL PROVIDE ELECTRICAL SERVICE TO THE EQUIPMENT MOUNTED BREAKER PANEL. SEE ELECTRICAL ROUGH-IN PLAN AND SCHEDULE FOR ALL REQUIREMENTS.

E3. THE EC SHALL BE RESPONSIBLE FOR THE PROPER IDENTIFICATION AND LABELING OF ALL CIRCUIT BREAKERS. EACH PANEL SHALL BE PROVIDED WITH AN ACCURATE TYPEWRITTEN CIRCUIT DIRECTORY AT THE CONCLUSION OF THE PROJECT AND PRIOR TO RESTAURANT OPENING.

SECURITY AND DRIVE-THRU CAMERAS:

S1. EC TO PROVIDE ELECTRICAL POWER AND COMMUNICATION CONDUITS FOR BUILDING MOUNTED SECURITY AND DRIVE THRU CAMERAS. COORDINATE FINAL LOCATIONS WITH SECURITY AND DRIVE THRU CAMERA INSTALLERS.

LIGHTING:

L1. PROVIDE A WEATHERPROOF JUNCTION BOX IN PARAPET FOR FASCIA SIGN. FINAL CONNECTION BY OTHERS.

L2. COORDINATE THE LOCATION OF JUNCTION BOX (IN THE WALL) WITH THE OPENING IN TRELLIS (FOR THE LIGHT FIXTURE WIRES). THE LOCATION OF THE JUNCTION BOX AND THE OPENING IN THE TRELLIS SHALL BE ALIGNED FOR THE LIGHT FIXTURE TO BE INSTALLED PROPERLY. COORDINATE INSTALLATION OF JUNCTION BOX AND ANY NECESSARY OPENINGS IN TRELLIS WITH GC AND TRELLIS/CANOPY MANUFACTURER. SEE LIGHT FIXTURE INSTALLATION INSTRUCTIONS FOR REQUIREMENTS REGARDING MOUNTING BRACKETS FOR USE IN C-CHANNEL TRELLISES.

L3. EC SHALL FIELD VERIFY THAT LIGHT FIXTURES DO NOT OBSTRUCT OR CONFLICT WITH THE WORK OF OTHER TRADES. IF A DISCREPANCY IS FOUND, THE EC SHALL IMMEDIATELY NOTIFY THE GC BEFORE THE THE INSTALLATION OF SUCH FIXTURE(S). EC SHALL COORDINATE LOCATIONS OF ALL LIGHT FIXTURES IN DINING AREA WITH FINAL SEATING AND DECOR PLANS.

L4. IF PC-POS CASH REGISTER SYSTEM IS INSTALLED, EC SHALL RELOCATE FIXTURES ABOVE FRONT COUNTER TO AVOID GLARE ON THE CASH REGISTER SCREENS. EC SHALL INSTALL CABLE WHIP TO FIXTURES SO THAT FIXTURE MAY BE RELOCATED FOUR FEET WITHOUT DISCONNECTING CABLE WHIP.

L5. EC SHALL COORDINATE LOCATION OF ALL EXTERIOR LIGHTS TO AVOID INTERFERENCE WITH ANY CORBELS, TRUSSES, BEAMS OR OTHER SPECIAL EXTERIOR TREATMENTS. INSTALL LIGHT FIXTURES WITH CORRECT ORIENTATION PER MANUFACTURER'S INSTRUCTIONS

L6. THE USE OF INTERLOCK TYPE "MC" CABLE IN LENGTHS OF 6 FEET OR LESS (WHERE PERMITTED BY LOCAL CODES) SHALL BE ALLOWED FOR WIRING TO INTERIOR LIGHTING FIXTURES. "ROMEX" OR "BX" SHALL NOT BE USED.

L7. EC SHALL VERIFY THAT NOT MORE THAN 3% VOLTAGE DROP EXISTS FROM THE LIGHTING PANEL TO ANY EXTERIOR LIGHTING FIXTURE OR SIGNAGE BALLAST.

L8. WHERE MCDONALD'S RESTAURANT HAS A PLAYPLACE, THE EC SHALL COORDINATE EXACT LOCATION OF PLAYPLACE LIGHTING WITH PLAYPLACE TOY VENDOR FOR MAXIMUM ILLUMINATION AND SAFETY PER THE FINAL LOCATION OF THE PLAYPLACE TOY. LIGHTING FIXTURES SHALL NOT BE MOUNTED TO THE TOY OR ANY PART OF THE TOY STRUCTURE.

L9. EC SHALL VERIFY ALL TAP SETTINGS FOR H.I.D. LIGHTING FIXTURES AND MAKE ANY NECESSARY CORRECTIONS PRIOR TO INSTALLATION.

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JUSTIN HERMANSEN LICENSED 27273 KANSAS PROFESSIONAL ENGINEER

SIGNATURE

06/16/2026 DATE — 04/30/2028 EXPIRATION DATE

COVERING ELECTRICAL DESIGN

STATE ID: 150404
PROJECT #: 26-028
NATIONAL #: 44655
DRAWN BY: -
CHECKED BY: AHRS

DATE: 04/08/2026 - PERMIT / BID SET

REVISIONS
1 05/07/2026 - QC COMMENTS/ADA UPDATE
2 06/22/26 - CITY COMMENTS / DECOR

CLIENT
McDonald's USA, LLC

PROTOTYPE
BB20 4584 WW-HB
ISSUE DATE 02/25

ADDRESS
707 1/2 METROPOLITAN AVE
LEAVENWORTH, KS 66048

SHEET TITLE
NOTES & DETAILS

SHEET NUMBER:
E3.1

SEQUENCE OF OPERATION:

1. TURNING "ON" ANY PIECE OF COOKING EQUIPMENT UNDER A HOOD WILL TURN ON THE EXHAUST FAN AND ASSOCIATED RTU PROVIDING MAKEUP AIR FOR THAT HOOD.
2. TURNING "OFF" THE LAST PIECE OF COOKING EQUIPMENT UNDER A HOOD WILL TURN OFF THE EXHAUST FAN FOR THAT HOOD.
3. IF THE ANSUL SYSTEM SHOULD DISCHARGE WHILE THE COOKING EQUIPMENT AND EXHAUST FAN ARE OPERATING, THE COOKING EQUIPMENT WILL BE SHUT OFF, BUT THE EXHAUST FAN WILL CONTINUE TO RUN AND WILL FORCE THE ROOFTOP UNITS INTO A "SCHEDULED" MODE
4. THE ANSUL SYSTEM MUST BE RECHARGED AND MANUALLY RESET BEFORE THE COOKING EQUIPMENT WILL AGAIN BE ABLE TO OPERATE.
5. THE ON/OFF SWITCH ON THE EXHAUST FAN IS NORMALLY KEPT IN THE "ON" POSITION. IF IT IS TURNED OFF FOR SERVICE, THE COOKING EQUIPMENT WILL TURN OFF AND NOT BE ABLE TO OPERATE UNTIL THE EXHAUST FAN ON/OFF SWITCH IS AGAIN TURNED ON.

INTERLOCK DIAGRAM LEGEND

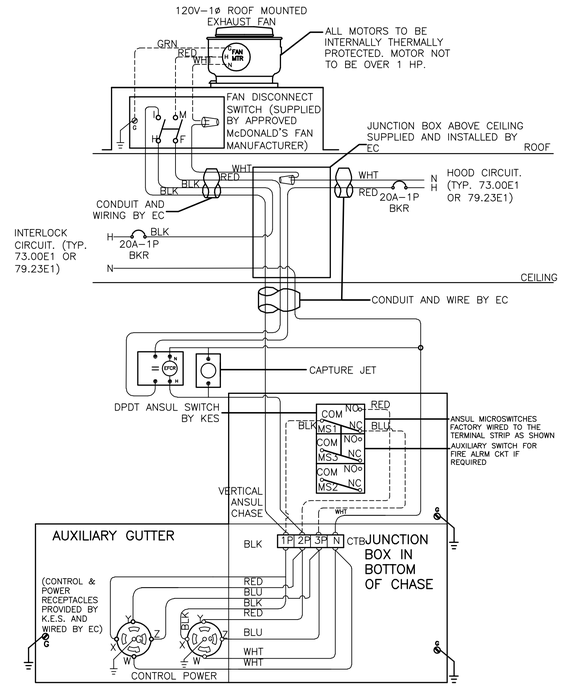
- ● TERMINAL BLOCK IN CHASE
- CTB – CHASE TERMINAL BLOCK. PROVIDED AND INSTALLED BY KITCHEN EQUIPMENT SUPPLIER
- ETB – EQUIPMENT TERMINAL BLOCK
- EFCR – EXHAUST FAN CONTROL RELAY. PROVIDED BY CONTRACTOR.
- IGR – INTERNAL GRILL RELAY PROVIDED WITHIN GARLAND GRILLS
- MS – ANSUL MICROSWITCH PROVIDED BY KITCHEN EQUIPMENT SUPPLIER
- » CONTROL CORD PLUG & RECEPTACLE
- —— FIELD WIRING
- ━━ CONTROL CORD/INTERNAL WIRING
- - - - FACTORY WIRING
- ═══ EQUIPMENT OR ENCLOSURE

COOKING EQUIPMENT EXHAUST FAN	MAKE UP PROVIDED BY
EF/1	RTU–3
EF/2	RTU–1
EF/3	RTU–2

NOTE
RTU # ASSOCIATED WITH EACH EXHAUST FAN BASED ON PROTOTYPICAL VALUES ONLY. VERIFY THAT EXHAUST FAN ACTIVATES THE CORRESPONDING RTU TO PROVIDE AN ADEQUATE AMOUNT OF MAKEUP AIR.

1 / E-3.2 **TYPICAL MAKEUP AIR RTU EXHAUST FAN SCHEDULE**
FOR REFERENCE ONLY

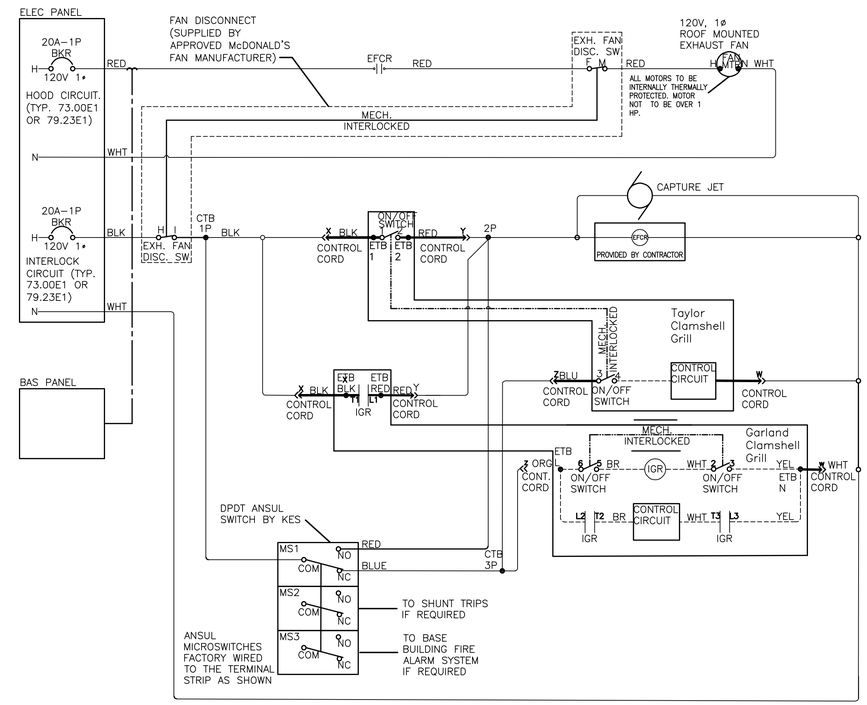
REVISED: 6/18



NOTE
IF CAPTURE JET IS REQUIRED TO BE OFF DURING AN ANSUL DISCHARGE EVENT, POWER FROM TERMINAL 2P THROUGH AN ANSUL SWITCH. IF ALL SHIPPED ANSUL SWITCH SPARES ARE USED, ANSUL SWITCHES ARE AVAILABLE THROUGH THE KES.

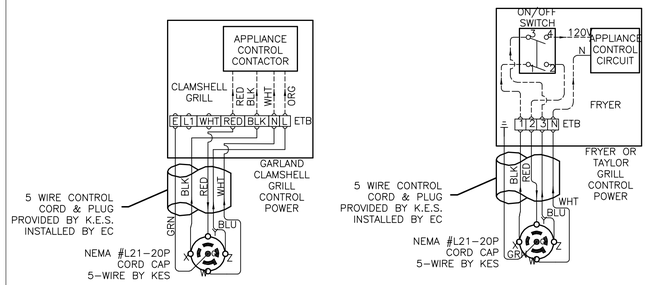
2 / E-3.2 **INTERLOCK WIRING DIAGRAM FOR EXHAUST FAN AND COOKING EQUIPMENT**
FOR REFERENCE ONLY

REVISED: 6/18



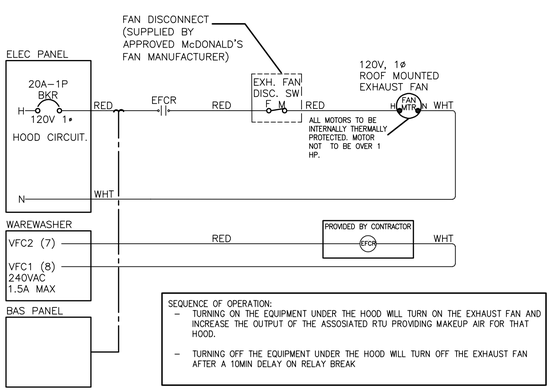
3 / E-3.2 **INTERLOCK LADDER DIAGRAM**
FOR REFERENCE ONLY

REVISED: 4/26



4 / E-3.2 **CONTROL CORD CONNECTION**
FOR REFERENCE ONLY

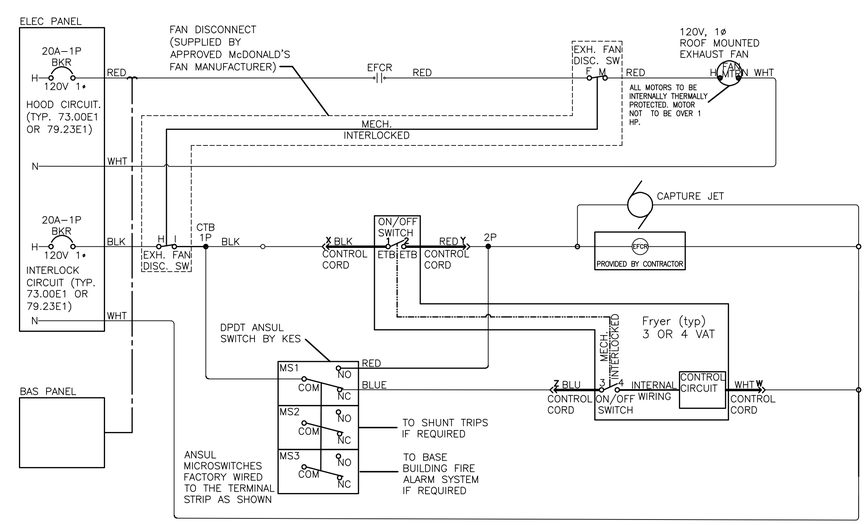
REVISED: 6/18



SEQUENCE OF OPERATION:
- TURNING ON THE EQUIPMENT UNDER THE HOOD WILL TURN ON THE EXHAUST FAN AND INCREASE THE OUTPUT OF THE ASSOSIATED RTU PROVIDING MAKEUP AIR FOR THAT HOOD.
- TURNING OFF THE EQUIPMENT UNDER THE HOOD WILL TURN OFF THE EXHAUST FAN AFTER A 10MIN DELAY ON RELAY BREAK

5 / E-3.2 **INTERLOCK LADDER DIAGRAM FOR EXHAUST FAN AND WAREWASHER**
FOR REFERENCE ONLY

REVISED: 02/24



6 / E-3.2 **INTERLOCK LADDER DIAGRAM**
FOR REFERENCE ONLY

REVISED: 4/26

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AUSTIN HERNANDEZ LICENSED 27273 KANSAS PROFESSIONAL ENGINEER

SIGNATURE

06/16/2026 — DATE
04/30/2028 — EXPIRATION DATE

COVERING ELECTRICAL DESIGN

STATE ID: 150404
PROJECT #: 26-028
NATIONAL #: 44655
DRAWN BY: -
CHECKED BY: AH/RS

DATE: 04/08/2026 - PERMIT / BID SET

REVISIONS
1. 05/07/2026 - QC COMMENTS/ADA UPDATE
2. 06/22/26 - CITY COMMENTS / DECOR

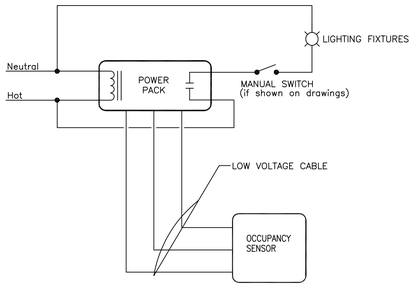
CLIENT
McDonald's USA, LLC

PROTOTYPE
BB20 4584 WW-HB
ISSUE DATE 02/25

ADDRESS
707 1/2 METROPOLITAN AVE
LEAVENWORTH, KS 66048

SHEET TITLE
INTERLOCK DIAGRAMS

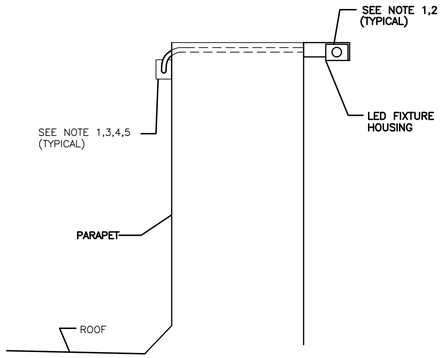
SHEET NUMBER:
E3.2



NOTES:

1. REFER TO LIGHTING PLAN FOR OCCUPANCY SENSOR LOCATIONS AND QUANTITIES.

1 / E-4.0 **OCCUPANCY SENSOR CONTROL DETAIL**
NOT TO SCALE



3 / E-4.0 **BRAND WALL LIGHTING DETAIL**
NOT TO SCALE

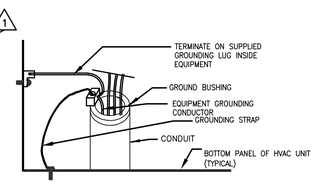
GENERAL NOTES

1. PLACE LED FIXTURE AT DESIRED LOCATION AND INSTALL FIXTURE FROM LEFT TO RIGHT WHEN FACING ARCADE AND ATTACH POWER SUPPLY AND MOUNTING BRACKET AS RECOMMENDED BY MANUFACTURER.
2. EC SHALL CONNECT NEW FIXTURES TO THE NEXT AVAILABLE SPARE 120V CIRCUIT AND MAKE ALL ELECTRICAL CONNECTIONS AS REQUIRED FOR A COMPLETE OPERATING SYSTEM.
3. POWER SUPPLY SHALL ALWAYS BE INSTALLED TO THE LEFT SIDE OF FIXTURE WHEN FACING ARCADE.
4. OVERALL FIXTURE RUN TO BE CENTERED ON OVERALL LENGTH OF WALL.
5. CONNECT NEW LED FIXTURES TO EXISTING LIGHTING CIRCUIT(S) AS REQUIRED. ENSURE THAT CIRCUIT BREAKER AND CONDUCTOR SIZES DO NOT EXCEED 1200 WATTS ON A 15A CIRCUIT AND 1600 WATTS ON A 20A CIRCUIT. VERIFY EXISTING CONDITIONS AND REQUIREMENTS IN FIELD. PROVIDE ADDITIONAL CIRCUITS (C.B.,WIRING,CONDUITS) AS REQUIRED.

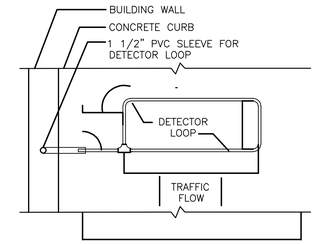
CONDUIT, WIRE SIZE AND GROUNDING FOR HVAC UNITS

HACR BRKR SIZE	CONDUIT & WIRE SIZE	ROOF TOP UNIT	PANEL:CIRCUIT #
40A	1"C–3#8		
45A	1"C–3#6		
50A	1"C–3#6	RTU–2	MDP:12
60A	1"C–3#6		
70A	1–1/4"C–3#4		
80A	1–1/4"C–3#3		
90A	1–1/4"C–3#3	RTU–3	MDP:8
100A	1–1/4"C–3#2		
110A	1–1/2"C–3#1		
150A	1–1/2"C–3#1/0	RTU–1	MDP:5
175A	2"C–3#2/0		
200A	2"C–3#3/0		
225A	2"C–3#4/0		

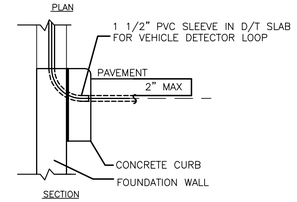
THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL COORDINATION OF ALL ELECTRICAL FEEDERS AND CIRCUIT BREAKERS WITH THE MANUFACTURER'S WRITTEN DATA FOR EACH MECHANICAL DEVICE PRIOR TO SUBMITTAL OF ANY ELECTRICAL EQUIPMENT FOR REVIEW. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ANY CHANGES TO ELECTRICAL FEEDERS OR CIRCUIT BREAKERS REQUIRED FOR ANY MECHANICAL DEVICES.



4 / E-4.0 **HVAC GROUNDING DETAIL**
NOT TO SCALE

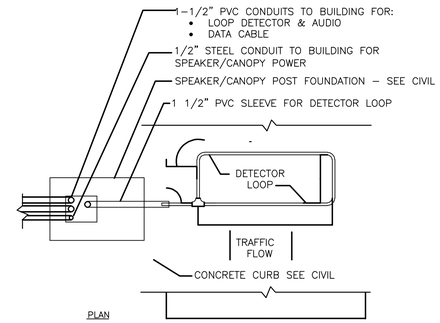


PLAN

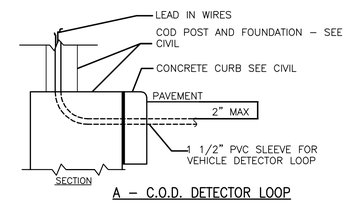


SECTION

B – DT WINDOW DETECTOR LOOP



PLAN



SECTION

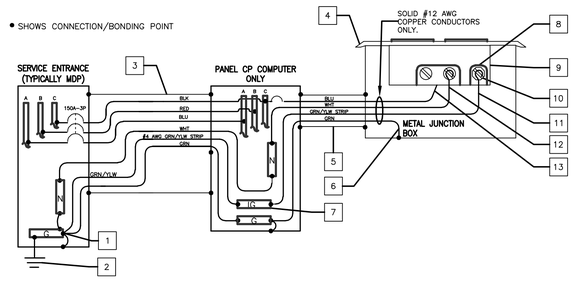
A – C.O.D. DETECTOR LOOP

2 / E-4.0 **DETECTOR LOOP DETAILS**
NOT TO SCALE

NOTES

1. VERIFY CONDUIT SIZES AND LAYOUT WITH DETECTOR LOOP MANUFACTURER.
2. CENTER VEHICLE DETECTOR LOOP (ITEM # 217.11E1) IN DRIVE THRU LANE. INSTALL PER MFR. RECOMMENDATIONS.
3. SEE CIVIL FOR DIMENSIONS OF DRIVE–THRU LANE CONCRETE PAD FOR DETECTOR LOOP.
4. NO STEEL (REBAR OR ELECTRICAL WIRE) SHALL BE USED WITHIN 2' OF LOOP.
5. DETECTOR LOOP MANUFACTURERS:
   DETECTOR LOOPS MAY BE BY ONE OF THE FOLLOWINGS COMPANIES OR EQUAL.
   3M: 1–800–328–0033
   HME: 1–800–848–4468
6. DETECTOR LOOP MATERIAL:
   PVC TUBING 1/2" I.D. 100 PSI LOOP MADE FROM ONE LENGTH OF THIN FOURTEEN GAUGE STRANDED WIRE. LEAD–IN IS PRE–TWISTED AT FACTORY.
7. DETECTOR LOOP CONSTRUCTION:
   FORMED WITH ONE CONTINUOUS LENGTH OF PVC WITH NO SHARP CORNERS AS DETAILED. WIRE LOOPED, FORMED, & PIGTAILED AS DETAILED.

• SHOWS CONNECTION/BONDING POINT



NOTES

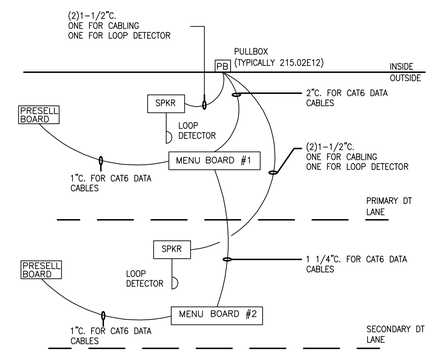
1. ALL P.O.S. EQUIPMENT (COMPUTERS,PRINTERS,MONITORS KVS, MODEM, HUB & COD) SHALL BE POWERED FROM THE COMPUTER PANEL.

   ALL OTHER COMPUTER/DIGITAL EQUIPMENT SHALL BE POWERED FROM PHASE "A" IN THE COMPUTER PANEL.
2. ISOLATED GROUND INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF NEC SECTION 250 .
3. EACH 20 AMP CIRCUIT SHALL HAVE IT'S OWN ISOLATED EQUIPMENT GROUNDING CONDUCTOR.
4. ENTIRE GROUNDING SYSTEM SHALL COMPLY WITH NEC ARTICLE 250 AND MCDONALD's BUILDING GROUNDING DETAIL.
5. EC SHALL VERIFY CORRECT POLARITY AT RECEPTACLE.
6. EC SHALL VERIFY THAT SUBPANEL CP DOES NOT CONTAIN ANY ILLEGAL NEUTRAL TO GROUND BONDS.
7. PANEL CP SHALL ONLY BE USED TO POWER SENSITIVE ELECTRONIC EQUIPMENT, AS OUTLINED IN NOTE #1. IT SHALL NOT BE USED TO POWER ANY OTHER LOADS.
8. IT IS A SAFETY HAZARD AND AN NEC VIOLATION FOR THE POS SYSTEM TO HAVE ITS OWN INDEPENDENT GROUNDING ROD. IF AN INDEPENDENT GROUND ROD IS FOUND FOR THE POS SYSTEM, IT SHALL BE BONDED TO THE BUILDING GROUNDING SYSTEM.

KEY NOTES

1	THIS IS THE ONLY POINT WHERE THE ISOLATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE CONNECTED TO THE BUILDING'S GROUNDING SYSTEM.
2	SEE BUILDING GROUNDING DETAIL SHEET E4.2.
3	1 1/2" METAL CONDUIT: 4–#1/0 CU + 1–#6 CU EQUIP GND + 1–#4 CU ISOLATED GND.
4	ALL ISOLATED GROUND/ DEDICATED CIRCUIT RECEPTACLE COVER PLATES SHALL BE ORANGE HUBBELL PJ7CO (SINGLE), PJ8CO (ONE DUPLEX) OR PJ82CO (TWO DUPLEX) MARKED "COMPUTER ONLY".
5	METAL CONDUIT SHALL CONTAIN ONLY P.O.S. CIRCUIT CONDUCTORS (DEDICATED CIRCUIT). ONLY USE RIGID NON–METALLIC CONDUIT BELOW GRADE WHEN REQUIRED BY LOCAL CODE.
6	EQUIPMENT GROUNDING BONDING CONDUCTOR (TYPICAL)
7	ISOLATED GROUND BUS, ELECTRICALLY INSULATED FROM PANEL ENCLOSURE USED TO TERMINATE ONLY ISOLATED EQUIPMENT GROUNDING CONDUCTORS.
8	ALL CONDUCTORS SHALL BE SOLID COPPER AND TERMINATED TO THEIR APPROPRIATE TERMINAL SCREWS BY WRAPPING THE CONDUCTOR COMPLETELY AROUND THE SCREW BARREL AND TIGHTENING THE SCREW PER MANUFACTURER'S TORQUE SPECIFICATIONS.
9	ISOLATED GROUND RECEPTACLE HUBBELL–IG4700,IG4710,IG5262 OR IG5261. SEE ROUGH IN SCHEDULE FOR THE APPROPRIATE RECEPTACLE TO USE.
10	ISOLATED GREEN GROUND SCREW.
11	ISOLATED EQUIPMENT GROUNDING CONDUCTOR (GRN W/YLW STRIP)
12	NEUTRAL CONDUCTOR TERMINATED ON SILVER SCREW.
13	PHASE CONDUCTOR TERMINATED ON BRASS SCREW

5 / E-4.0 **POS & COD ISOLATED GROUND/DEDICATED CIRCUIT**
NOT TO SCALE



6 / E-4.0 **DT LOW VOLTAGE CONDUIT DIAGRAM**
NOT TO SCALE

NOTE:

* VERIFY EXACT CIRCUITS & QUANTITIES OF CIRCUITS WITH PANEL SCHEDULES AND MANUFACTURERS INSTALLATION INSTRUCTIONS.

* VERIFY LOW VOLTAGE CABLE COUNT WITH POS INSTALLER. LOW VOLTAGE CABLE SUPPLIED AND TERMINATED BY POS INSTALLER. ELECTRICAL CONTRACTOR TO PULL CABLE.

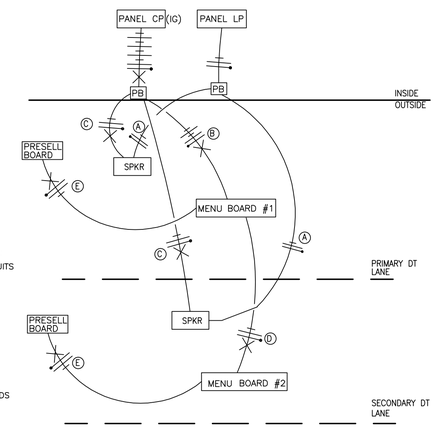
(A) 2#12 & 1#12 GND. TO LP–1 FOR COD CANOPY LIGHTING.

(B) 4#12 & 1#12 GND & 1#12 ISOLATED GND., TO CP FOR ISOLATED GROUND POWER TO MENUBOARDS AND MEDIA PLAYERS.

(C) 2#12 & 1#12 GND & 1#12 ISOLATED GND., TO CP FOR ISOLATED GROUND POWER TO SPEAKER CANOPY/STAND. EACH CANOPY/STAND SHALL BE ON ITS OWN SEPARATE CIRCUIT.

(D) 2#12 & 1#12 GND & 1#12 ISOLATED GND., TO CP FOR ISOLATED GROUND POWER TO MENUBOARDS AND MEDIA PLAYERS.

(E) 2#12 & 1#12 GND & 1#12 ISOLATED GND., TO CP FOR ISOLATED GROUND POWER TO FOR PRESELL BOARDS AND MEDIA PLAYER.



7 / E-4.0 **DRIVE THRU POWER DIAGRAM**
NOT TO SCALE

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ALISON HERRANEN LICENSED 27273 KANSAS PROFESSIONAL ENGINEER

SIGNATURE

06/16/2026 DATE — 04/30/2028 EXPIRATION DATE

COVERING ELECTRICAL DESIGN

STATE ID: 150404
PROJECT #: 26-028
NATIONAL #: 44655
DRAWN BY: -
CHECKED BY: AHRS

DATE: 04/08/2026 - PERMIT / BID SET

REVISIONS

1. 05/07/2026 - QC COMMENTS/ADA UPDATE
2. 06/22/26 - CITY COMMENTS / DECOR

CLIENT

McDonald's USA, LLC

PROTOTYPE

BB20 4584 WW-HB
ISSUE DATE 02/25

ADDRESS

707 1/2 METROPOLITAN AVE
LEAVENWORTH, KS 66048

SHEET TITLE

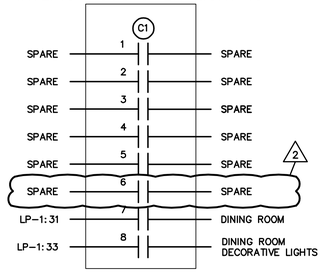
WIRING DETAILS

SHEET NUMBER:

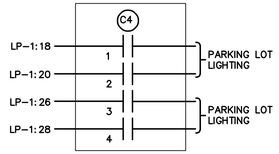
E4.0

LIGHTING CONTROL SYSTEM

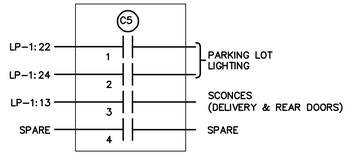
INTERIOR CUSTOMER LIGHTING



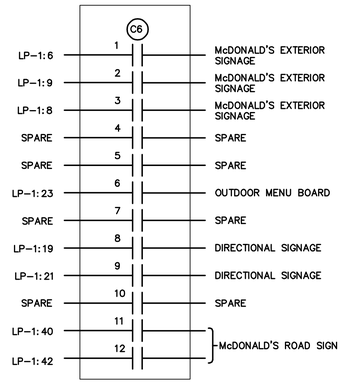
EXTERIOR LIGHTING



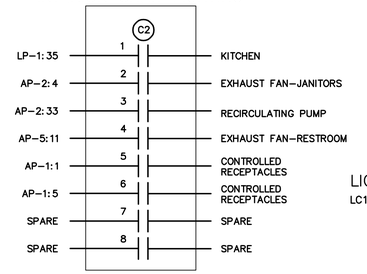
EXTERIOR LIGHTING



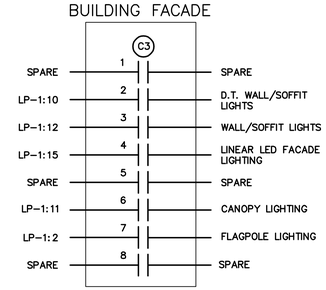
EXTERIOR SIGNAGE



INTERIOR CREW LIGHTING



BUILDING FACADE



LIGHTING CONTROL NOTES

LC1. CONTACTOR DETAILS ARE DIAGRAMMATIC ONLY AND ARE SHOWN WITH TYPICAL LOADS AND CIRCUIT ASSIGNMENTS. LOADS, CIRCUIT ASSIGNMENTS AND NUMBER OF CONTACTORS MAY VARY BY RESTAURANT LOCATION AND PER BAS SUPPLIERS SYSTEMS. VERIFY EXACT REQUIREMENTS WITH BAS INSTALLATION DETAILS, SITE PLANS, ELECTRICAL PANEL SCHEDULES AND ACM. EC SHALL MAKE ALL MODIFICATIONS AS REQUIRED. FINAL INSTALLATION SHALL BE FULLY NEC AND ENERGY CODE COMPLIANT.

LC2. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL WIRING, CONNECTIONS, TERMINATIONS, ETC. THAT ARE NOT PROVIDED BY THE BAS SUPPLIER FOR A COMPLETE, FULLY OPERATIONAL AND CODE COMPLIANT LIGHTING CONTROL SYSTEM.

LC3. ALL COMPONENTS FOR THIS LIGHTING CONTROL SYSTEM SHALL BE INSTALLED BY THE ELECTRICAL CONTRACTOR. SEE BOXED NOTE BELOW FOR OPTIONS.

LC4. ALL COMPONENTS SHALL BE UL LISTED AND LABELED AND THE SYSTEM SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL ENERGY CODE REQUIREMENTS.

LC5. ALL CONTACTORS SHALL BE LOCATED IN A NEMA 1 ENCLOSURE WITH SCREW TYPE COVER MOUNTED DIRECTLY ABOVE LIGHTING PANEL OR SWITCHGEAR SO AS TO BE ACCESSIBLE.

LC6. ALL CONTACTORS SHALL BE RATED FOR 30 AMP LOADS UNLESS NOTED OTHERWISE AND SHALL BE HID RATED WHERE REQUIRED.

LC7. COIL VOLTAGES FOR ALL CONTACTORS SHALL BE 120 VOLT UNLESS NOTED OTHERWISE.

LC8. CONTACTOR C5 IS INTENDED TO CONTROL PARKING LOT LIGHTS NEAR TRASH CORRAL, DELIVERY DOORS, AND EMPLOYEE PARKING, THUS ALLOWING A DIFFERENT LIGHTING SCHEDULE TO BE USED IN THOSE AREAS.

INTERIOR LIGHTING CONTROL SCHEDULE							
	LOCAL CONTROL	MANUAL ON	PARTIAL ON	MULTI LEVEL	DAYLIGHTING	AUTO OFF	SCHEDULE OFF
DINING	MANAGERS OFFICE		X		X		X
KITCHEN	MANAGERS OFFICE		X				X
SUPPORT/STOCK	X					X	
CREW	X	X		X		X	
MANAGER	X	X		X		X	
BATHROOM						X	
SMALL STORAGE	X	X				X	
ENTRY VESTIBULE							X

NOTES:
1. LOCAL CONTROL: MANUAL LIGHTING CONTROL THAT PROVIDES ON AND OFF CONTROL IN SPACE. REMOTE LOCATION CONTROL DEVICE MUST BE LABELED TO IDENTIFY CONTROLLED LIGHTING.
2. MANUAL ON: NONE OF THE LIGHTING SHALL BE AUTOMATICALLY TURNED ON.
3. PARTIAL ON: 50% OF THE GENERAL LIGHTING SHALL BE AUTOMATICALLY TURNED ON.
4. MULTI LEVEL: GENERAL LIGHTING SHALL BE FITTED WITH A MANUAL CONTROLLED CONTINUOUS DIMMER.
5. DAYLIGHTING: REQUIRED WHEN PRIMARY AND SECONDARY ZONES CONTAIN 150W OF GENERAL LIGHTING. PHOTOCONTROL SHALL REDUCE LIGHTING IN RESPONSE TO AVAILABLE DAYLIGHT USING CONTINUOUS DIMMING TO 20% AND OFF.
6. AUTO OFF: ALL LIGHTING INCLUDING LIGHTING CONNECTED TO EMERGENCY CIRCUITS SHALL BE AUTOMATICALLY SHUT OFF WITHIN 20 MINUTES OF OCCUPANTS LEAVING THE SPACE.
7. SCHEDULE OFF: ALL LIGHTING, INCLUDING LIGHTING CONNECTED TO EMERGENCY CIRCUITS, SHALL BE AUTOMATICALLY SHUT OFF DURING PERIODS WHEN THE SPACE IS SCHEDULED TO BE UNOCCUPIED.
8. 0.02W PER SQUARE FT OF BUILDING ALLOWED TO BE CONTINUOUSLY LIT.

EXTERIOR LIGHTING CONTROL SCHEDULE			
	TIME CLOCK	PHOTCELL	OCCUPANCY SENSOR
POLE LIGHTING	X	X	X
BUILDING MOUNT LIGHTING	X	X	
SIGNAGE	X	X	

NOTES:
1. TIME CLOCK: LIGHTING SHALL BE AUTOMATICALLY SHUT OFF BETWEEN BUSINESS CLOSING (OR MIDNIGHT) AND BUSINESS OPENING (OR 6AM) WHICHEVER PROVIDES THE SHORTEST OFF DURATION.
2. PHOTOCELL: LIGHTING SHALL BE AUTOMATICALLY TURNED OFF WHEN SUFFICIENT DAYLIGHT IS AVAILABLE.
3. OCCUPANCY SENSOR: LIGHTING SHALL AUTOMATICALLY REDUCE THE CONNECTED LIGHTING POWER BY 50% WHEN NO ACTIVITY HAS BEEN DETECTED IN AREA IN 15 MINUTES. NO MORE THAN 1500W OF LIGHTING PER CONTROL ZONE.

LIGHTING CONTROL COMMISSIONING:

1. PROVIDE DOCUMENTATION THAT LIGHTING CONTROLS MEET DOCUMENTED PERFORMANCE CRITERIA TO COMPLY WITH IECC C408.3.

LIGHTING CONTROL SYSTEM SHALL COMPLY WITH IECC:

1. HAVE A MINIMUM 7-DAY CLOCK.
2. BE CAPABLE OF BEING SET FOR SEVEN DIFFERENT DAY TYPES PER WEEK.
3. INCORPORATE AN AUTOMATIC HOLIDAY "SHUTOFF" FEATURE, WHICH TURNS OFF ALL CONTROLLED LIGHTING LOADS FOR NOT FEWER THAN 24 HOURS AND THEN RESUMES NORMALLY SCHEDULED OPERATIONS.
4. HAVE PROGRAM BACKUP CAPABILITIES, WHICH PREVENT THE LOSS OF PROGRAM AND TIME SETTINGS FOR NOT FEWER THAN 10 HOURS, IF POWER IS INTERRUPTED.
5. INCLUDE AN OVERRIDE SWITCH THAT COMPLIES WITH THE FOLLOWING:
   5.1. THE OVERRIDE SWITCH SHALL BE A MANUAL CONTROL.
   5.2. THE OVERRIDE SWITCH, WHEN INITIATED, SHALL PERMIT THE CONTROLLED LIGHTING TO REMAIN ON FOR NOT MORE THAN 2 HOURS.
   5.3 ANY INDIVIDUAL OVERRIDE SWITCH SHALL CONTROL THE LIGHTING FOR AN AREA NOT LARGER THAN 5,000 SQUARE FEET (465 M2).

LIGHTING CONTROL INSTALLATION OPTIONS

OPTION 1 (STANDARD) CONTACTORS AND CONTACTOR ENCLOSURE FOR THIS LIGHTING CONTROL SYSTEM SHALL BE FURNISHED BY THE BAS SUPPLIER AND INSTALLED BY THE ELECTRICAL CONTRACTOR ON SITE FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.

OPTION 2 (OPTIONAL) LIGHTING CONTROL CAN BE ACCOMPLISHED VIA UTILIZATION OF A SMART TYPE BREAKER PANEL REPLACING STANDARD PANEL LP-1. PANEL SHALL UTILIZE AN INTEGRAL MOTOR OPERATED CIRCUIT BREAKERS OR AN INTEGRAL CIRCUIT BREAKER/CONTACTOR TYPE COMBINATION DEVICE WITH AN INTEGRAL PROGRAMMING CONTROL MODULE AND SHALL BE ORDERED THROUGH OUR ELECTRICAL EQUIPMENT NATIONAL ACCOUNT PROGRAM (SQUARE-D) THROUGH OUR CONSTRUCTION PURCHASING TEAM.

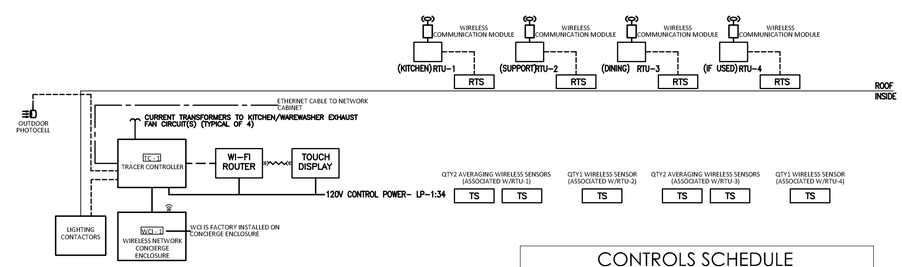
BUILDING AUTOMATION SYSTEM NOTES

BAS1. THE DIAGRAM SHOWN ABOVE IS SCHEMATIC IN NATURE AND SHOWS THE GENERAL REQUIREMENTS FOR THE INSTALLATION OF THE BUILDING AUTOMATION SYSTEM. EXACT EQUIPMENT REQUIREMENTS AND QUANTITIES WILL VARY PER SITE. G.C., M.C., T.C.C. AND E.C. SHALL COORDINATE ALL EXACT EQUIPMENT AND INSTALLATION REQUIREMENTS WITH SUPPLIER PRIOR TO SUBMITTING BID FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.

BAS2. THE BUILDING AUTOMATION SYSTEM ALSO HAS ADDITIONAL OPTIONS AVAILABLE SUCH AS MONITORING DOOR CONTACTS (RESTROOM & COOLER FREEZER), ENERGY METER, COOLER/FREEZER TEMP. ADDITIONAL OPTIONS MAY BE SELECTED ON CENTRAL PURCHASING PROJECT DETAIL FORM. G.C., M.C., T.C.C. AND E.C. SHALL COORDINATE ALL EXACT INSTALLATION REQUIREMENTS WITH SUPPLIER PRIOR TO SUBMITTING BID FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.

BAS3. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL LINE AND LOW VOLTAGE WIRING AND CONNECTIONS, INCLUDING BUT NOT LIMITED TO CONTROL POWER TO ALL BAS COMPONENTS AND POWER CIRCUITRY WIRING OF ALL LIGHTING CONTACTORS. COORDINATE INSTALLATION WITH SITE SPECIFIC BAS INSTALLATION DETAILS PROVIDED BY SUPPLIER.

INSTALLATION & TECHNICAL ASSISTANCE INFORMATION:
TRANE BAS: McDcontrols@Trane.com



PROVIDE AND INSTALL DATA OUTLET NEXT TO BAS PANEL. REMOTE COMMISSIONING IS NOT POSSIBLE WITHOUT DATA CONNECTION.

INSTALLATION NOTES:

1. PROVIDE, INSTALL AND SECURE ALL NECESSARY CABLE & CONDUIT PER BAS DRAWINGS AND SPECIFICATIONS.
2. MOUNT ALL BAS CONTROL ENCLOSURES.
3. PERFORM ALL LOW VOLTAGE TERMINATIONS.
4. ROUGH-IN, INSTALLATION AND WIRING FOR TEMPERATURE SENSORS AND TOUCHSCREEN PER PLAN LOCATIONS.
5. PROVIDE POWER CIRCUITS INTO CONTROL CANS PER BAS DETAILS.
6. COORDINATE WITH SUPPLIER TO SCHEDULE REMOTE COMMISSIONING.
7. CORRECT ALL PUNCH LIST ITEMS FOUND DURING REMOTE COMMISSIONING.

CONTROLS SCHEDULE

MARK	DESCRIPTION	MANUFACTURER MODEL
TS	WIRELESS SPACE TEMPERATURE SENSOR	*PROVIDED WITH BAS
RTS	RETURN TEMPERATURE SENSOR	*PROVIDED WITH BAS
HS	OUTDOOR TEMP/HUMIDITY SENSOR	FACTORY FURNISHED AND INSTALLED W/EACH RTU

NOTES:
1. FOR TS LOCATIONS, REFER TO M1.2
2. RTS TO BE MOUNTED IN RETURN AIR DUCT OF RTU

WIRE LEGEND

MARK	WIRE/CABLE TYPE
—— - ——	CAT 5E
----------	18 AWG CONDUCTORS

LINGLE DESIGN GROUP INC
158 WEST MAIN STREET
LENA, IL 61048
815.369.9155
1764 BLAKE ST
DENVER, CO 8020
303.974.5873
WWW.LINGLEDESIGN.COM

DICKERSON ENGINEERING, INC.
Professional Electrical Engineers
3343 NORTH RIDGE AVENUE
ARLINGTON HEIGHTS, IL 60004
TEL. (847) 966-0290
WWW.DEI-PE.COM
ILLINOIS REGISTERED DESIGN FIRM # 184-000949

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LICENSED PROFESSIONAL ENGINEER — 27273 — KANSAS

SIGNATURE

06/16/2026 DATE — 04/30/2028 EXPIRATION DATE

COVERING ELECTRICAL DESIGN

STATE ID: 150404
PROJECT #: 26-028
NATIONAL #: 44655
DRAWN BY: -
CHECKED BY: AHRS

DATE: 04/08/2026 - PERMIT / BID SET

REVISIONS
1 05/07/2026 - QC COMMENTS/ADA UPDATE
2 06/22/26 - CITY COMMENTS / DECOR

CLIENT
McDonald's USA, LLC

PROTOTYPE
BB20 4584 WW-HB
ISSUE DATE 02/25

ADDRESS
707 1/2 METROPOLITAN AVE
LEAVENWORTH, KS 66048

SHEET TITLE
LIGHTING CONTROLS

SHEET NUMBER:
E4.1

MLO, AIC: NOTES D7,&D8, Mounting: flush, NEMA 1 — PANEL LP-1 — 225A, 208Y/120 VAC, 3PH, 4W, CB TYPE: BL or BLH

WATTS A	WATTS B	WATTS C	DESCRIPTION	BRKR TRIP REQ	CCT POLES	CCT NO.	CCT NO.	TRIP POLES	BRKR TRIP REQ	DESCRIPTION	WATTS A	WATTS B	WATTS C
0			Spare		20A-1	1	2	20A-1	S	Flag Pole	220		
	0		Spare		20A-1	3	4	20A-1		Spare		0	
		0	Spare		20A-1	5	6	20A-1	S	Exterior Signage			294
0			Spare		20A-1	7	8	20A-1	S	Exterior Signage	294		
	294		Exterior Signage	S	20A-1	9	10	20A-1	S	Exterior Wall/Soffit Lights DT		114	
		193	Flood Lights & Canopy lights	S	20A-1	11	12	20A-1	S	Exterior Wall/Soffit Lights			114
42			Back of House Sconces	S,L	20A-1	13	14	20A-1		DCO In Road Sign Base	180		
	126		Linear LED Façade Lighting	S	20A-1	15	16	20A-1	L	Dr Alarm CO2		524	
		0	Space		20A-1	17	18	30A-2		Lot Lights			480
96			Directional Sign	S	20A-1	19	20	|		|	480		
	96		Directional Sign	S	20A-1	21	22	30A-2		Lot Lights		240	
		120	COD lighting	S	20A-1	23	24	|		|			240
0			Spare		20A-1	25	26	30A-2		Lot Lights	480		
	0		Spare	S	20A-1	27	28	|		|		480	
		0	Spare	S	20A-1	29	30	30A-2		Spare			0
308			Dining Area Lighting	S	20A-1	31	32	|		|	0		
	180		Pendants/cove lights	S	20A-1	33	34	20A-1	L	BAS Controller		300	
		880	Kitchen Lighting	S	20A-1	35	36	20A-1	L	Lighting Control Panel			180
176			Restroom Lighting	S	20A-1	37	38	20A-1	S,L	Ext/Egress Lighting	80		
	520		Support Area Lighting	S	20A-1	39	40	60A-2	S	Mcd'S Road Sign		2496	
		0	Spare		20A-1	41	42	|	|	|			2496
										Total Connect	2356	5370	4997
										Connect Amps		35	Amps
										Demand Amps		44	Amps

MLO, AIC: NOTES D7, & D8, Mounting: MDP, NEMA 1 — PANEL AP-1 — 225A, 208Y/120 VAC, 3PH, 4W, CB TYPE: BL or BLH

WATTS A	WATTS B	WATTS C	DESCRIPTION	BRKR TRIP REQ	CCT PLS	CCT NO.	CCT NO.	TRIP PLS	BRKR TRIP REQ	DESCRIPTION	WATTS A	WATTS B	WATTS C
1224			Dco-manager's office (man off)		20A-1	1	2	20A-2	G	Coffee brewer (presenter's booth)	1612		
	900		Dco-General Purpose	G	20A-1	3	4	|	|	|		1612	
		720	Dco-General Purpose	G	20A-1	5	6	20A-1	G	ABS (phase c, presenter's booth)			1788
120			Safe - (mo) DCO Gen Purp	L	20A-1	7	8	20A-1	G	Oj dispenser/ coffee cream disp	840		
	240		Remote Order Battery		20A-1	9	10	20A-1	G	CO2 Detector		120	
		960	Merge/audio sys/drv mon/Deliv.	G	20A-1	11	12	20A-1	G	Automated beverage sys			600
0			Spare		15A-1	13	14	20A-2	G	Coffee Brewer (front counter)	1612		
	1800		Hand Held Order		20A-1	15	16	|	|	|		1612	
		120	Computer Room (TF/1)		20A-1	17	18	30A-3	G	Heat treat combo shake			1560
2246			Espresso Brewer	G	30A-2	19	20	|	|	|	1560		
	2246		|	|	|	21	22	|	|			1560	
		1500	3-Vat fryer hood interlock		20A-1	23	24	20A-1		3-Vat fryer hood interlock			1176
1320			Reach in Freezer-SW	G	20A-1	25	26	20A-2	H	Ice Machine Remote Cond 1400lb	104		
	1080		Frozen fry dispenser (fry wall)	G	20A-1	27	28	|	|	|		104	
		1620	4-Vat fryer hood interlock		20A-1	29	30	20A-1	G	Reach in Freezer-SW			1320
1500			Fry Bagging Station	L,G	20A-1	31	32	15A-3	H	Ice Machine Remote Cond 1000lb	1332		
	60		Hand Wash Timers	G	20A-1	33	34	|	|	|		1332	
		1320	Reach in Freezer-SW	G	20A-1	35	36	|	|	|			1332
132			Ice mach - 1000 lb (self serve)		15A-1	37	38	15A-3	H	Ice Machine Remote Cond 1000lb	1332		
	132		Ice mach - 1000 lb (self serve)		15A-1	39	40	|	|	|		1332	
		1176	4-Vat fryer hd interlock		20A-1	41	42	|	|	|			1332
										Total Connect	14934	14130	16524
										Connect Amps		127	Amps
										Demand Amps		85	Amps

MLO, AIC: NOTES D7,&D8, Mounting: MDP, NEMA 1 — PANEL AP-2 — 225A, 208Y/120 VAC, 3PH, 4W, CB TYPE: BL or BLH

WATTS A	WATTS B	WATTS C	DESCRIPTION	BRKR TRIP REQ	CCT PLS	CCT NO.	CCT NO.	TRIP PLS	BRKR TRIP REQ	DESCRIPTION	WATTS A	WATTS B	WATTS C
1609			Ice machine 1400LB	H	20A-3	1	2	20A-1		Spare	0		
	1609		|	|	|	3	4	20A-1		Janitors EF		100	
		1609	|	|	|	5	6	20A-1	G	Dco-General Purpose			540
144			Blender McFlurry	G	20A-1	7	8	20A-1	G	Refrig-wt-48"	600		
	180		Janitor's closet	G	20A-1	9	10	30A-2	H	Trash Compactor		2496	
		480	Water Heater	L	20A-1	11	12	|	|	|			2496
864			Clm gril exhast hood interlock		20A-1	13	14	20A-1		Walk in cooler / freezer	600		
	864		Bulk oil system (sup area)	G	20A-1	15	16	20A-1		Walk in cooler / freezer		600	
		1656	Clm gril exhast hood interlock		20A-1	17	18	20A-2	G	Q'ing oven - P& S			1550
840			Meat freezer DW (grill side)	G	20A-1	19	20	|	|	|	1550		
	120		Clean in place panel	G	20A-1	21	22	20A-1	G	Specialty Coffee Refrigerator 27"		468	
		490	Reverse Osmosis, Filtration	G	20A-1	23	24	20A-1	G	Automated beverage sys			600
180			Dco in trash corrall	G	20A-1	25	26	20A-1	G	ABS (presenter's booth)	1788		
	1200		Bulk oil sys - support area (sa)	G	20A-1	27	28	20A-2	G	Q'ing oven - P& S		1550	
		1032	BIC Machine	G	20A-1	29	30	|	|	|			1550
324			Reach In SW fridge	G	20A-1	31	32	20A-2	G	Infusion Tea Brewer	1352		
	120		Recirc pump		20A-1	33	34	|	|	|		1352	
		1632	Soda syst pack (support area)		20A-1	35	36	20A-1		Spare			0
3120			Soda syst pack (support area)		30A-3	37	38	20A-2	G	Q'ing oven - P& S	1602		
	3120		|	|	|	39	40	|	|	|	1602		
		3120	|	|	|	41	42	20A-1	G	Dco-General Purpose			540
										Total Connect	14573	15381	17295
										Connect Amps		131	Amps
										Demand Amps		87	Amps

MLO, AIC: NOTES D7,&D8, Mounting: MDP, NEMA 1 — PANEL AP-3 — 225A, 208Y/120 VAC, 3PH, 4W, CB TYPE: BL or BLH

WATTS A	WATTS B	WATTS C	DESCRIPTION	BRKR TRIP REQ	CCT PLS	CCT NO.	CCT NO.	TRIP- PLS	BRKR TRIP REQ	DESCRIPTION	WATTS A	WATTS B	WATTS C
4671			4 Vat Fryer - Electric - S/S/S/S	G	50A-3	1	2	50A-3	G	4 Vat Fryer - Electric - S/S/S/S	4671		
	4671		|	|	|	3	4	|	|	|		4671	
		4671	|	|	|	5	6	|	|	|			4671
4671			4 Vat Fryer - Electric - S/S/S/S	G	50A-3	7	8	50A-3	G	4 Vat Fryer - Electric - S/S/S/S	4671		
	4671		|	|	|	9	10	|	|	|		4671	
		4671	|	|	|	11	12	|	|	|			4671
0			Space			13	14	50A-3	G	Clamshell Grill	2604		
	0		Space			15	16	|	|	|		2604	
		0	Space			17	18	|	|	|			2604
0			Space			19	20	50A-3	G	Clamshell Grill	5196		
	0		Space			21	22	|	|	|		5196	
		0	Space			23	24	|	|	|			5196
0			Space			25	26			Space	0		
	0		Space			27	28			Space		0	
			Space			29	30			Space			0
0		0	Space			31	32			Space	0		
	0		Space			33	34			Space		0	
		0	Space			35	36			Space			0
0			Space			37	38			Space	0		
	0		Space			39	40			Space		0	
		0	Space			41	42			Space			0
										Total Connect	26484	26484	26484
										Connect Amps		221	Amps
										Demand Amps		143	Amps

MLO, AIC: NOTES D7,&D8, Mounting: MDP, NEMA 1 — PANEL AP-4 — 225A, 208Y/120 VAC, 3PH, 4W, CB TYPE: BL or BLH

WATTS A	WATTS B	WATTS C	DESCRIPTION	BRKR TRP REQ	CCT PLS	CCT NO.	CCT NO.	TRIP PLS	BRKR TRP REQ	DESCRIPTION	WATTS A	WATTS B	WATTS C
2604			Clamshell Grill	G	50A-3	1	2	30A-3	G	Combi Oven	1812		
	2604		|	|	|	3	4	|	|	|	1812	
		2604	|	|	|	5	6	|	|	|		1812
5196			Clamshell Grill	G	50A-3	7	8	30A-3	G	Combi Oven	1812		
	5196		|	|	|	9	10	|	|	|	1812	
		5196	|	|	|	11	12	|	|	|		1812
4671			3-Vat Fryer - Electric - F/F/F	G	50A-3	13	14	15A-1		Combi Oven Hood	960		
	4671		|	|	|	15	16	15A-1		Combi Oven Hood		960	
		4671	|	|	|	17	18			Space			0
4671			3-Vat Fryer - Electric - F/F/F	G	50A-3	19	20			Space	0		
	4671		|	|	|	21	22			Space		0	
		4671	|	|	|	23	24			Space			0
4671			3-Vat Fryer - Electric - F/F/F	G	50A-3	25	26			Space	0		
	4671		|	|	|	27	28			Space		0	
		4671	|	|	|	29	30			Space			0
0			Space			31	32			Space	0		
	0		Space			33	34			Space		0	
		0	Space			35	36			Space			0
0			Space			37	38			Space	0		
	0		Space			39	40			Space		0	
		0	Space			41	42			Space			0
										Total Connect	26397	26397	25437
										Connect Amps		217	Amps
										Demand Amps		141	Amps

MLO, AIC: NOTES D7,&D8, Mounting: Flush, NEMA 1 — PANEL AP-5 — 225A, 208Y/120 VAC, 3PH, 4W, CB TYPE: BL or BLH

WATTS A	WATTS B	WATTS C	DESCRIPTION	BRKR TRP REQ	CCT PLS	CCT NO.	CCT NO.	TRIP PLS	BRKR TRP REQ	DESCRIPTION	WATTS A	WATTS B	WATTS C
600			Fridge/Freezer 2Dr Base	G	20A-1	1	2	20A-1		Warewasher Exhaust Fan	864		
	600		Fridge/Freezer 2Dr Base	G	20A-1	3	4	20A-2	G	Universal Holding Cabinet P&S		1581	
		600	Fridge/Freezer 2Dr Base	G	20A-1	5	6	|	|	|			1581
600			Fridge/Freezer 2Dr Base	G	20A-1	7	8	20A-2	G	Universal Holding Cabinet P&S	1581		
	600		Fridge/Freezer 2Dr Base	G	20A-1	9	10	|	|	|		1581	
		864	Toilet Exhaust Fan	G	20A-1	11	12	20A-1	G	Universal Holding Cabinet Table			240
540			Roof Receptacles		20A-1	13	14	20A-1		DT Power Window	120		
	600		Fridge/Freezer 2Dr Base	G	20A-1	15	16	20A-1		DT Power Window		120	
		2080	Frozen Carbonated Beverage	G	30A-2	17	18	20A-1		DT Power Window			120
2080			|	|	|	19	20	20A-2	G	Coffee Brewer (front counter)	1612		
	0		Spare	G	20A-1	21	22	|	|	|		1612	
		600	Wall Mount Frz Unit SW HC	G	20A-1	23	24	20A-1	G	Pie Display			564
828			Bulk Oil System	G	20A-1	25	26	20A-1	G	Pie Display	564		
	2620		Universal Radiant Toaster	G	30A-1	27	28	20A-1		Spare		0	
		2620	|	|	|	29	30	20A-1		DCO-Muzak satellite system			120
3528			Warewasher - High Temp	G	40A-3	31	32	20A-1		Clg. Mt window recepts	1440		
	3528		|	|	|	33	34	20A-2	G	Humidified Holding Cabinet		947	
		3528	|	|	|	35	36	|	|	|			947
2676			Warewasher - High Temp	G	30A-3	37	38	25A-2	H	Remote condensing unit	1560		
	2676		|	|	|	39	40	|	|	|	1560	
		2676	|	|	|	41	42	20A-1		Spare			0
										Total Connect	18593	18025	16540
										Connect Amps		148	Amps
										Demand Amps		96	Amps

MLO, AIC: NOTES D7,&D8, Mounting: Flush, NEMA 1 — PANEL AP-6 — 225A, 208Y/120 VAC, 3PH, 4W, CB TYPE: BL or BLH

WATTS A	WATTS B	WATTS C	DESCRIPTION	BRKR TRP REQ	CCT PLS	CCT NO.	CCT NO.	TRIP PLS	BRKR TRP REQ	DESCRIPTION	WATTS A	WATTS B	WATTS C
4212			Unit AC-1 (Cash Booth)		60A-2	1	2	20A-1	L,G	Hand Dryer	1092		
	4212		|		|	3	4	20A-1	L,G	Hand Dryer		1092	
		4212	Unit AC-2 (Presenter Booth)		60A-2	5	6	20A-1	L,G	Spare			0
4212			|		|	7	8	20A-1	L,G	Spare	0		
	0		Spare		20A-1	9	10	20A-2	H	Cooler Evaporator		104	
		0	Spare		20A-1	11	12	|	|	|			104
1200			Unit AC-3 (Rear Entrance)		20A-1	13	14	30A-2	H	Freezer Evaporator	2111		
	1200		Unit AC-4 (Storage Entrance)		20A-1	15	16	|	|	|		2111	
		660	Unit AC-5 (Forward Presenter)		20A-1	17	18	20A-1		Spare			0
0			Spare		20A-1	19	20	20A-1		Spare	0		
	0		Spare		20A-1	21	22	30A-2		Stacked Washer/Dryer		2496	
		0	Spare		20A-1	23	24			|			2496
0			Space		20A-1	25	26	20A-1	G	Crew Microwave	1200		
	0		Space			27	28	20A-1	G	Crew Smart Lockers		204	
		0	Space			29	30			Space			0
0			Space			31	32			Space	0		
	0		Space			33	34			Space		0	
		0	Space			35	36			Space			0
0			Space			37	38	20A-1		Roof receptacles	720		
	0		Space			39	40	20A-1	G	Dining furniture receptacles		720	
		0	Space			41	42	20A-1	G	Dining furniture receptacles			720
										Total Connect	14747	12139	8192
										Connect Amps		97	Amps
										Demand Amps		83	Amps

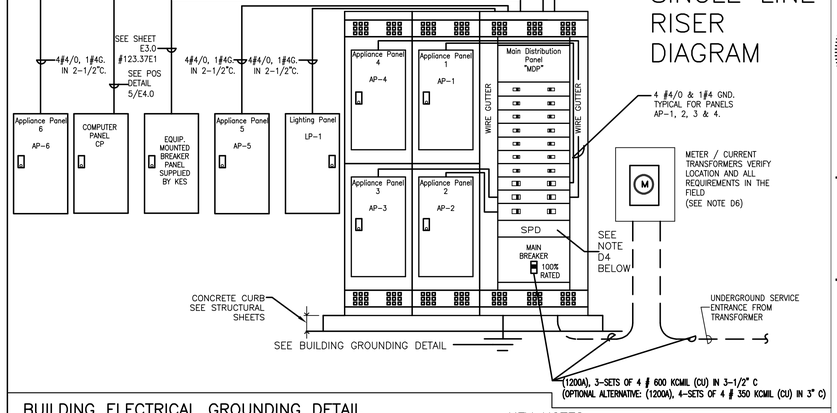
1200A MCB, NOTES D6, D7, & D8, Mounting: Free Standing, NEMA 1 — PANEL MDP — 208Y/120 VAC, 3PH, 4W

WATTS A	WATTS B	WATTS C	DESCRIPTION	BRKR TRP REQ	CCT PLS	CCT NO.	CCT NO.	TRP PLS	BRKR TRP REQ	DESCRIPTION	WATTS A	WATTS B	WATTS C
2356	5370	4997	Lighting Panel 1, LP-1		225A-3	1	2	225A-3		Appliance Panel; AP-1	14934	14130	16524
14573	15381	17295	Appliance Panel; AP-2		225A-3	3	4	225A-3	SHT	Appliance Panel; AP-3	26484	26484	26484
12960	12960	12960	*Roof Top Unit 1	H	150A-3	5	6	150A-3	L	CP Panel	8658	8136	8176
0	0	0	SPACE			7	8	90A-3	H	*Roof Top Unit 3	8040	8040	8040
18593	18025	16540	Appliance Panel; AP-5		225A-3	9	10	225A-3	SHT	Appliance Panel; AP-4	26397	26397	25437
9444	9564	0	KES Breaker Panel		125A-2	11	12	50A-3	H	*Roof Top Unit 2	4560	4560	4560
0	0	0	Spare	H,L	200A-3	13	14	225A-3		Apliance Panel; AP-6	14747	12139	8192
2688	2688	2688	Remote Cond Unit	H	50A-3	15	16	30A-3		SPD			
0	0	0	SPACE			17	18						
0	0	0	SPACE			19	20						
* SEE ELECT SHTS FOR CONDUIT AND WIRE SIZE													
										Total Connect	164434	163874	151893
										Connect Amps		1333	Amps

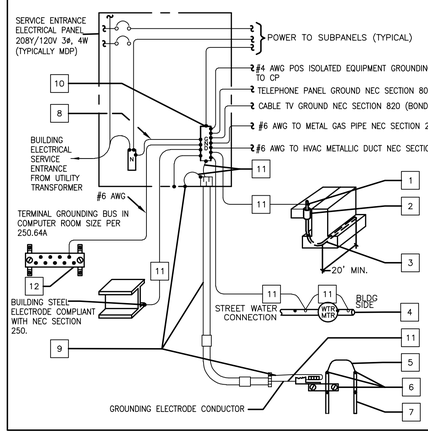
225 MLO AIC: SEE NOTES D7, & D8, Mounting: Flush — COMPUTER PANEL CP — 150A, 208Y/120 VAC, 3PH, 4W, CB TYPE: BL or BLH

WATTS A	WATTS B	WATTS C	DESCRIPTION	BRKR TRIP REQ	CCT PL S	CCT NO.	CCT NO.	TRIP PL S	BRKR TRIP REQ	DESCRIPTION	WATTS A	WATTS B	WATTS C
1488			POS/Rec/Mon/Printer/Headset	L	20A-1	1	2	20A-1	L	Spare	0		
	1764		Pos Prep-Kiw Monitor / Rec Prntr Video Mon	G, L	20A-1	3	4	20A-1	G, L	Receipt Printer/cashless		84	
		100	Cctv/Timer	L	20A-1	5	6	20A-1	L	Menu Bd-Digital/Media Player			1368
390			Coin Dispenser/Pos-Pc Hardware/POS timer/Vido	L	20A-1	7	8	20A-1	G, L	Pos-Pc Hardware Presenter's Booth /Video Mon. w/supports	600		
	180		Pos Video Monitor	G, L	20A-1	9	10	20A-1		Zoom Timer		720	
		600	Tech Rack	L	20A-1	11	12	30A-1	L	POS Tech Rack			360
0			Spare	L	20A-1	13	14	20A-1	L	POS Optical Isolator	120		
	1200		Tech Rack	L	20A-1	15	16	20A-1	L	Speaker Canopy#1		120	
		1440	Tech Rack	L	20A-1	17	18	20A-1	L	Speaker Canopy#2.			120
1080			Pos PC front counter	L	20A-1	19	20	20A-1	L	Office desk	1200		
	0		Spare	L	20A-1	21	22	20A-1	L	Office desk		1200	
		720	KVS mon/Register/Delivery	G, L	20A-1	23	24	20A-1	L	Cash Recycler			528
1860			Exterior Menu Boards	L	20A-1	25	26	20A-1	G, L	POS video monitor	360		
	528		Cash Recycler	L	20A-2	27	28	20A-1	G, L	Time Clock		60	
		1860	Exterior Menu Boards	L	20A-1	29	30	20A-1	L	Kiosks			1080
480			Equipment Rack	L	20A-1	31	32	20A-1	L	Kiosks	1080		
	1200		Bocai	L	20A-1	33	34	20A-1	L	Kiosks		1080	
		0	Space			35	36	20A-1	L	Spare			0
0			Space			37	38	20A-1	L	Spare	0		
	0		Space			39	40			Space		0	
		0	Space			41	42			Space			0
										Total Connect	8658	8136	8176
										Connect Amps		69	Amps
										Demand Amps		87	Amps

SINGLE LINE RISER DIAGRAM



BUILDING ELECTRICAL GROUNDING DETAIL



KEY NOTES

1. PROVIDE ENOUGH LENGTH TO TERMINATE DIRECTLY TO GROUND BUS OR USE BOLTED-TYPE CONNECTION DEVICE OR EXOTHERMIC WELD.
2. NON-METALLIC PROTECTIVE SLEEVE. LOCATE SLEEVE DIRECTLY UNDER THE ELECTRICAL SERVICE ENTRANCE PANEL. EC TO PROVIDE PLIABLE SEALANT BETWEEN COPPER WIRE AND SLEEVE.
3. FOR NEW CONSTRUCTION WHEN A SPREAD FOOTING OR DOWN TURNED SLAB IS USED, EC SHALL INSTALL A CONCRETE ENCASED ELECTRODE, COMPLIANT WITH NEC SECTION 250, CONSISTING OF AT LEAST 20 FEET OF BARE #4 AWG COPPER ENCASED IN 2 INCHES OF CONCRETE NEAR THE BOTTOM OF THE FOOTING OR FOUNDATION (BELOW GRADE) THAT IS IN DIRECT CONTACT WITH EARTH.
4. METAL UNDERGROUND WATER PIPE ELECTRODE COMPLIANT WITH NEC SECTION 250. THE GROUNDING CONNECTION TO THE INTERIOR METAL WATER PIPE SHALL BE MADE WITHIN THE FIRST FIVE FEET OF THE WATER PIPE ENTRANCE TO THE BUILDING.
5. IF MULTIPLE GROUNDING RODS ARE BEING USED OR NEED TO BE USED, THEY SHALL ALL BE BONDED TOGETHER PER NEC SECTION 250.
6. CLAMPS SUITABLE FOR DIRECT BURIAL OR EXOTHERMIC WELD.
7. 8'-0" X 5/8" CU ROD GROUNDING ELECTRODE COMPLIANT WITH NEC SECTION 250.
8. CU BONDING JUMPER SIZED PER NEC SECTION 250 OR FACTORY PROVIDED NEUTRAL TO GROUND BAR LINK. (THIS IS THE ONLY PLACE IN THE BUILDING WHERE N-G SHALL BE BONDED TOGETHER)
9. ALL METAL RACEWAYS CONTAINING GROUNDING ELECTRODE CONDUCTORS SHALL BE BONDED AT BOTH ENDS AS REQUIRED BY NEC SECTION 250. PROVIDE GROUNDING TYPE BUSHINGS & FITTINGS.
10. MCDONALD'S GROUNDING STANDARDS PURPOSELY EXCEED THOSE GIVEN BY THE NEC. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A BUILDING GROUNDING SYSTEM MEETING NEC AND MCDONALD'S STANDARDS AS SHOWN ON THIS DRAWING.
11. CU GROUNDING ELECTRODE CONDUCTORS AND BONDING JUMPERS SHALL BE SIZED BASED UPON ELECTRICAL SERVICE SIZE PER NEC SECTION 250

800A 3/0 CU	1000A 3/0 CU	1200A 4/0 CU

● SHOWS CONNECTION/BONDING POINT

12. TERMINAL GROUNDING BUS AT 90"AFF. HARGER #GB114212D.

DISTRIBUTION EQUIPMENT NOTES:

D1. ALL ELECTRICAL MATERIAL USED ON THIS PROJECT SHALL BE "UL" LISTED AND LABELED.

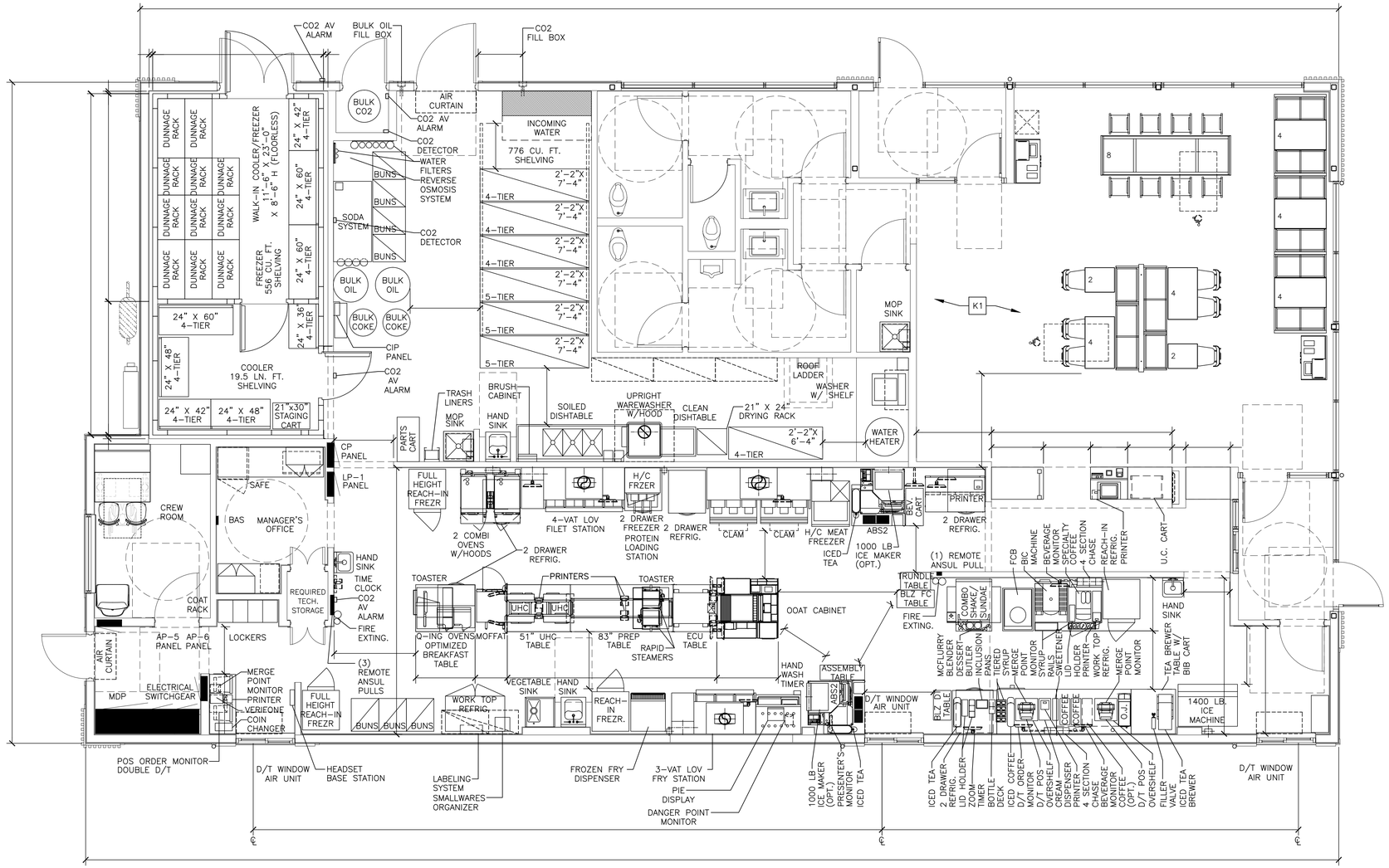
D2. THE EC/GC/AREA CONSTRUCTION MANAGER WHEN ORDERING PANELBOARDS, SHALL DETERMINE THE NUMBER OF SERVICE ENTRANCE CONDUCTORS, SIZE AND MATERIAL TYPE, AND SHALL PROVIDE THIS INFORMATION TO THE PANELBOARD SUPPLIER SO THAT THE APPROPRIATE LUGS CAN BE PROVIDED FROM THE FACTORY.

D3. ALUMINUM SERVICE ENTRANCE CONDUCTORS SHALL ONLY BE USED WHEN THEY ARE TERMINATED DIRECTLY TO THE LINE LUGS ON A C/T AND METERING CABINET, THE LINE LUGS OF A FUSIBLE DISCONNECT SWITCH OR TO THE LINE LUGS OF A MAIN LUG ONLY (6 HANDLE RULE) SERVICE ENTRANCE PANEL. ALUMINUM SERVICE ENTRANCE CONDUCTORS SHALL NOT BE TERMINATED TO THE LINE LUGS OF ANY MAIN BREAKER SINCE DOING SO WILL VIOLATE IT'S 100% UL RATING. IF ALUMINUM CONDUCTORS ARE USED AS PREVIOUSLY INDICATED THEY SHALL BE TERMINATED AS FOLLOWS, AND THE WIRE SIZE INCREASED DUE TO LOWER AMPACITY OF ALUMINUM. EXPOSED ALUMINUM CONDUCTOR STRANDS SHALL BE COATED WITH AN ANTI-OXIDANT IMMEDIATELY AFTER INSULATION IS STRIPPED AWAY. A COMPRESSION LUG SHALL BE PROPERLY INSTALLED ONTO THE EXPOSED ALUMINUM CONDUCTOR STRANDS, AND THAT COMPRESSION LUG SHALL THEN BE BOLTED TO THE TRANSFORMER TAPS AND SWITCHBOARD BUSS USING PROPERLY SIZED BOLTS, NUTS AND WASHERS. MERELY INSERTING ALUMINUM STRANDS UNDER A SCREW LUG SHALL NOT BE ACCEPTABLE.

D4. THE SURGE PROTECTIVE DEVICE (SPD) UNIT SHALL BE AN INTEGRAL UNIT PROVIDED AND INSTALLED BY THE SWITCHBOARD MANUFACTURER. ORDER APPROVED UNITS AS SHOWN IN D5.

D5. APPROVED SWITCHBOARDS, PANEL, & SPD SUPPLIER (IN ADDITION TO ORDERING SWITCHBOARD & PANELS ALSO ORDER SPD) SUPPLIERS:

SQUARE D VIA GRAYBAR
900 REGENCY DRIVE
GLENDALE HEIGHTS, IL 60139
TEL:



1 K1.0 KITCHEN COVER SHEET

1/4" = 1'-0"

KEYED NOTES

K1 CUSTOMER KIOSK & DECOR LAYOUT FOR REFERENCE ONLY. VERIFY KIOSK PLACEMENT PER USRD APPROVED KIOSK REVIEW

LINGLE DESIGN GROUP INC
158 WEST MAIN STREET
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CARL LINGLE LICENSED 7997 KANSAS ARCHITECT

04-08-26

STATE ID: 150404

PROJECT #: 26-028

NATIONAL #: 44655

DRAWN BY: CR

CHECKED BY: JK

DATE:
04/08/26 - PERMIT / BID SET

REVISIONS

1 05/07/26 - QC COMMENTS/ADA UPDATE
2 06/22/26 - CITY COMMENTS / DECOR

CLIENT
McDonald's USA, LLC

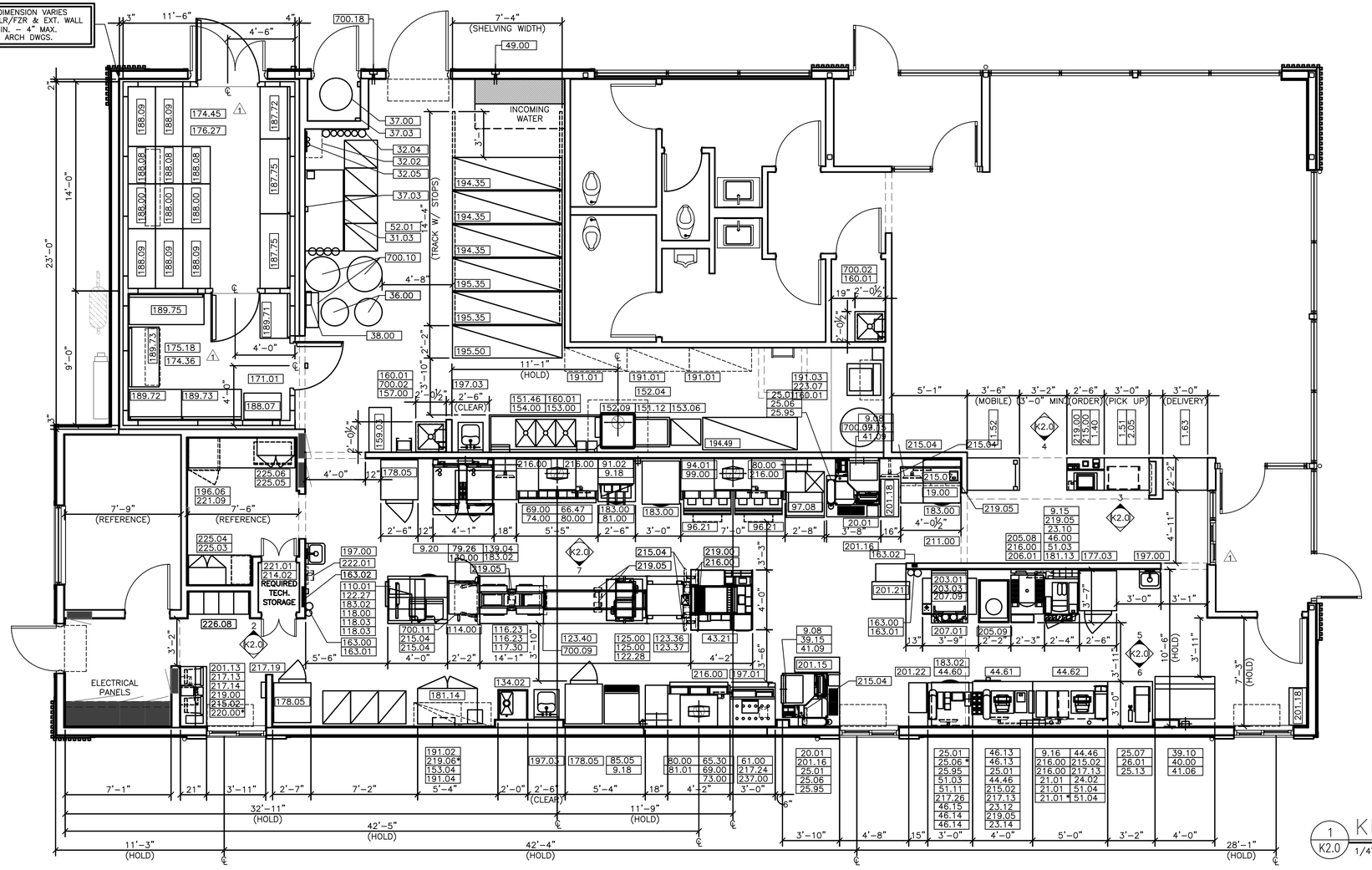
PROTOTYPE
BB20 4584 WW-HB
ISSUE DATE 02/25

ADDRESS
707 1/2 METROPOLITAN AVE
LEAVENWORTH, KS 66048

SHEET TITLE
KITCHEN COVER SHEET

SHEET NUMBER:
K1.0

NOTE: DIMENSION VARIES BETWEEN CLR/FZR & EXT. WALL 2" MIN. – 4" MAX. SEE ARCH DWGS.

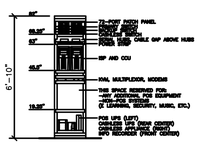


1 K2.0 KITCHEN EQUIPMENT PLAN
1/4" = 1'–0"

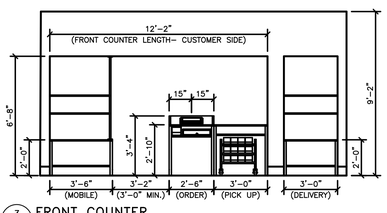
DRAWING NOTES

1. ALL DIMENSIONS SHOWN ARE TAKEN TO FACE OF WALL FINISH
2. * INDICATES OPTIONAL EQUIPMENT
3. KES TO VERIFY ALL BLOCKING FOR WALL MOUNTED EQUIPMENT AS REQUIRED BY GENERAL NOTE 9 ON A1.0 PRIOR TO INSTALLATION

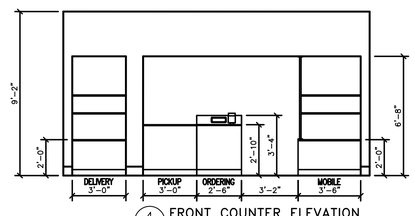
SEE SHEET K2.1 FOR EQUIPMENT SCHEDULE



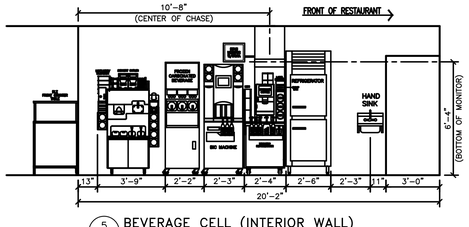
2 K2.0 COMPUTER CLOSET RACK
1/4" = 1'–0"



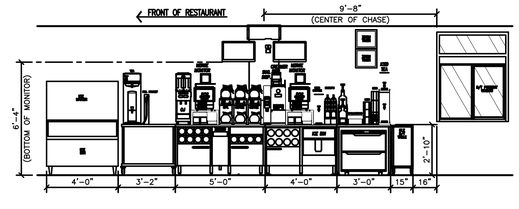
3 K2.0 FRONT COUNTER
1/4" = 1'–0"



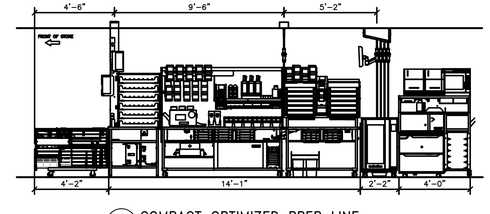
4 K2.0 FRONT COUNTER ELEVATION
1/4" = 1'–0"



5 K2.0 BEVERAGE CELL (INTERIOR WALL)
1/4" = 1'–0"



6 K2.0 BEVERAGE CELL (EXTERIOR WALL)
1/4" = 1'–0"



7 K2.0 COMPACT OPTIMIZED PREP LINE
1/4" = 1'–0"

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LEAVENWORTH, KS 66048

SHEET TITLE
KITCHEN EQUIPMENT PLAN & ELEVATIONS

SHEET NUMBER:
K2.0

x = Optional Equipment
GC = General Contractor
R = Relocated Equipment
VIF = Verify in Field

EQUIPMENT SCHEDULE

ITEM	O	QTY	DESCRIPTION	MANUFACTURER	MODEL #	UL	NSF	FURNISHED	GENERAL REMARKS	SPECIAL REQUIREMENTS
1.40		1	SERVICE POD – 30"	DECOR	SEE PLAN	–	2	GC	–	
1.51		1	PICKUP POD – 36"	DECOR	SEE PLAN	–	2	GC	–	
1.52		1	PICKUP POD – 42"	DECOR	SEE PLAN	–	2	GC	–	
1.63		1	McDELIVERY PICKUP COUNTER	DECOR	SEE PLAN	–	2	GC	–	
2.05		1	UNDER COUNTER CART – 24"W x 18"D FRONT COUNTER	INTERMETRO	UC18–DMS	–	2	KES	–	
9.08		2	UTILITY CHASE – ICE MAKER ON ABS VERSION	KES	5"x8"x23"	–	2	KES	CONCEALS WATER AND CONDENSING UNIT LINES	
9.15		1	UTILITY CHASE – FFDT INTERIOR WALL	KES	20"x5"x76"	–	2	KES	4 SECTION CHASE FOR BUYOUT RECEPTACLES, POS, CO2 AND WATER	
9.16		1	UTILITY CHASE – FFDT EXTERIOR WALL	KES	20"x5"x76"	–	2	KES	4 SECTION CHASE FOR BUYOUT RECEPTACLES, POS AND WATER	
9.18		2	UTILITY CHASE – WALL VERSION	KES	4"x4"x82"	–	2	KES	CHASE FOR BULK OIL LINES, MOUNT AT 2'–0"	
9.20		1	UTILITY CHASE – COMBI CELL	KES	4"x8"x84"	–	2	KES	CHASE FOR BUYOUT RECEPTACLES AND WATER	
13.02		1	BAKERY RACK	KRISPY KREME	18"x26"x65"	–	2	SUPPLIER	–	
19.00		2	DIGITAL ASSEMBLY CART – 48"	INTERMETRO	MCDDAC–48	–	2	KES	–	
20.01		2	AUTOMATED BEVERAGE SYSTEM 2.0	IMI CORNELIUS	621058590LON	–	–	KES	INSTALLATION KIT INCLUDES STAINLESS STEEL CHASE & DATA LINE	
21.01		3	COFFEE BREWER (THERMAL POTS)	BUNN–O– MATIC	AXIOM–DV–3	E32066	4	KES	W/ELECTRONIC CONTROLLER FOR CONVERSION TO LOW OR HIGH VOLTAGE	
23.10		1	ESPRESSO BREWER	FRANKE	FM850	–	4	KES	–	
23.12		1	COFFEE CREAM DISPENSER	SURESHOT	AC110–PC–51	E217698	20	KES	–	
23.14		1	SUGAR/SWEETENER DISPENSER	SURESHOT	AC2–GP–1–G38	E217698	18	KES	–	
24.02		1	JUICE DISPENSER	BUNN–O– MATIC	JDF–2S	–	18	KES	–	
25.01		4	SLIMLINE ICED BEVERAGE DISPENSER	BUNN–O– MATIC	TDO–N	E32066	4	KES	KES TO VERIFY EXACT QUANTITY PER MARKET	
25.06		3	SLIMLINE ICED BEVERAGE DISPENSER – SHORT	BUNN–O– MATIC	TDO–N LP	E32066	4	KES	KES TO VERIFY EXACT QUANTITY PER MARKET	
25.07		1	INFUSION TEA BREWER – MIS	BUNN–O– MATIC	ITCB–DV	E32066	4	KES	PROVIDED WITH BREWER, INSTALLATION KIT AND TDO–N BOOSTER	
25.13		1	GLASS FILLER HOSE ASSEMBLY	FISHER	H–14650–KIT	–	–	GC	–	
25.95		3	SLIMLINE ICED BEVERAGE DISPENSER – 2 TIER STAND	KES	–	–	2	KES	–	
26.01		1	TEA BREWER TABLE – 36"X36"	ISS SHELVING	WST1758C	–	2	KES	–	
31.03		1	SODA SYSTEM PACKAGE B.I.B.(RECIRCULATING– 3 TOWERS) – REMOTE	MULTIPLEX	50MR04	SA4632	18	KES	–	
32.02		1	REVERSE OSMOSIS WATER FILTRATION SYSTEM – TANKLESS	EVERPURE	MRS–600HE	–	–	KES	FOR COFFEE MAKER, ESPRESSO MACHINE, AND RAPID BUN STEAMER	
32.04		1	WATER FILTRATION SYSTEM	EVERPURE	EV9437–32	–	–	KES	–	
32.05		1	WATER FILTRATION SYSTEM	EVERPURE	EV9272–24	–	–	KES	FOR COMBI OVENS AND STAGING CABINET	
36.00		2	BULK COKE	CHART INDUSTRIES	10667511	–	18	MANU–FACTURER	SYRUP LINES BY CHART INDUSTRIES	
37.00		1	BULK CO2 – 750 LB.	CHART INDUSTRIES	CARBO–MAX 750	–	–	MANU–FACTURER	–	
37.03		2	CO2 SAFETY SYSTEM	SEE RMKS	–	–	–	KES	SEE MECHANICAL DRAWINGS	INCLUDES DETECTOR, PWER MONITOR W/ TROUBLE SIGNAL AND (4) AV ALARMS
38.00		1	CLEAN IN PLACE PANEL	CHART INDUSTRIES	10667431	–	18	MANU–FACTURER	MOUNT 6"W x 7"H. BOX @ 6'–0" AFF TO BOX CENTER LINE	
39.10		1	ICE MACHINE – 1400 LB.	MANITOWOC	IYT1500N3/ D970	SA4027	12	KES	USE HEADMASTER KIT K00221	
39.15		2	ICE MACHINE – 1000 LB.	MANITOWOC	IBT1020C–161	SA4027	12	KES	CONDENSER: CVDT1200	
40.00		1	ICE MACHINE CHASE	KES	4"x6"x48"	–	2	KES	CONCEALS WATER AND CONDENSING UNIT LINES	
41.06		1	ICE MACHINE REMOTE CONDENSER – 1400 LB.	MANITOWOC	JCT–1500	SA4027	12	KES	–	
41.09		2	ICE MACHINE REMOTE CONDENSER – 1000 LB.	MANITOWOC	CVDT1200–263A	SA4027	12	KES	–	
43.21		1	OPTIMIZED ORDER ASSEMBLY TABLE	KES	90001	E152097	2	KES	–	
44.46		1	SMALL RISER SHELF – 18" TO 30"	FRANKE	18006010	–	2	KES	–	
45.20		1	MODULAR BEVERAGE CABINET – 10'–0"	KES	–	–	2	KES	–	
45.21		1	BEVERAGE CABINET – DRIVE–THRU TABLE 35"	KES	–	–	2	KES	–	
46.00		1	CUP DISPENSER VERTICAL 3 CUP	KES	–	–	2	KES	–	
46.02		1	SYRUP BOTTLE RACK – (5) SYRUP PUMPS	PRONTO	–	–	2	KES	–	
49.00		1	CO2 FILL BOX – 6 1/2"W x 18"H	CHART INDUSTRIES	8512629	–	–	MANU–FACTURER	SEE EXTERIOR ELEVATIONS FOR MOUNTING HEIGHT. INSTALLED BY GC	
51.03		3	CUP LID HOLDER 3 HIGH S/S	KES	–	–	2	KES	–	
51.04		2	CUP LID HOLDER SINGLE STACK 8" HIGH	KES	–	–	2	KES	–	
52.01		1	REMOTE CONDENSING UNIT – 50MR04	MULTIPLEX	TS–0895	SA2298	–	KES	ORDER PRE–CHARGE LINE #204017 – VIF LENGTH FROM UNIT TO SODA SYST.	
61.00		1	FRY BAGGING STATION 36"	KES	FB25A	E99018	2	KES	–	
65.30		1	3–VAT LOV FRYER – ELECTRIC – F/F/F	HENNY PENNY	LVE–303	E30993	4	KES	–	IDLE ENERGY RATE=0.73kW, ENERGY EFFICIENCY=87%
66.47		1	4–VAT LOV FRYER – ELECTRIC – S/S/S/S	HENNY PENNY	LVE–304	E30993	4	KES	–	IDLE ENERGY RATE=0.73kW, ENERGY EFFICIENCY=87%
69.00		2	CAPTURE JET PLENUM – FRYER	HALTON	CJP–F	MH27607	2	KES	ATTACH TO UNIVERSAL EXHAUST HOOD	
69.01		2	CAPTURE JET PLENUM – GRILL	HALTON	CJP–G	MH27607	2	KES	ATTACH TO UNIVERSAL EXHAUST HOOD	
73.00		1	UNIVERSAL EXHAUST HOOD 3–VAT FRYER	KES	UH–50	MH12755	2	KES	–	
79.23		1	UNIVERSAL EXHAUST HOOD FULL–CLAM/4–VAT FRYER	KES	UH–122	MH12755	2	KES	–	
79.26		2	VENTLESS HOOD FOR COMBI OVEN	CONVOTHERM	CONOVENT MINI 6.10	E325060	2	KES	–	
80.00		1	MECHANICAL CHASE	KES	9"x18" SGCL.	E163328	2	KES	–	
80.08		1	MECHANICAL CHASE	KES	9"x32" SGCL.	E163328	2	KES	–	
81.00		1	PROTEIN LOADING STATION KIT	KES	272436	–	2	KES	–	
81.01		1	PRODUCT LANDING SHELF – SOLID TOP	KES	–	–	2	KES	–	
82.00		1	LANDING TABLE	INTERMETRO	TLDP–S	–	2	KES	–	
85.05		1	FROZEN FRY DISPENSER	RAM	280–FP	E140753	4	KES	–	
91.02		1	WALL MOUNT FREEZER UNIT–SINGLE WIDE–HIGH CAPACITY	KES	HCWF1	SA7329	7	KES	AIR–COOLED, SELF–CONTAINED – MOUNT BOTTOM AT 51" AFF	HCWF1.99A INSTALL HARDWARE KIT REQUIRED
93.00		1	UNIVERSAL EXHAUST HOOD FULL–CLAM GRILL	KES	UH–43	MH12755	2	KES	–	
96.21		2	36" NEXT GEN 3–PLATEN CLAMSHELL GRILL – ELECTRIC	GARLAND	ME–3PX	E28898	4	KES	–	
97.08		1	MEAT FREEZER – DOUBLE WIDE – HIGH CAPACITY – RIGHT HAND	KES	HCMF30B–RH	SA6032 S	2	KES	AIR–COOLED, SELF–CONTAINED	
99.01		2	GRILL TOOL ORGANIZER – 43" HOOD	KES	–	–	2	KES	–	
110.01		1	OPTIMIZED BREAKFAST TABLE	KES	OBT	–	2	KES	–	
114.00		1	HUMIDIFIED HOLDING CABINET	MOFFAT	HP10T–LMD	197	4	KES	–	
116.23		2	UNIVERSAL HOLDING CABINET – HIGH DENSITY – 2–SIDED – PIN & SLEEVE	FRYMASTER	UHCHD6T	E44571	4	KES	–	
117.30		1	UHC TABLE COPL – 2 SIDED – 51"D x 34"W – PIN&SLEEVE	KES	91011	–	2	KES	–	
118.00		1	Q'ING OVEN – PIN & SLEEVE	AMANA	MC23MPW2	E40456	4	KES	–	
118.03		2	Q'ING OVEN – PIN & SLEEVE	ACP	MCM0C24	–	4	KES	–	
122.27		1	NEXT GEN. UNIVERSAL RADIANT TOASTER – PIN & SLEEVE	ANTUNES	HRT–5H	–	4	KES	–	
122.28		1	NEXT GEN. UNIVERSAL CONTACT TOASTER – PIN & SLEEVE	ANTUNES	HCT–5H	–	4	KES	–	
123.36		1	ECU TABLE – COPL	KES	90165	–	2	KES	–	
123.37		1	BREAKER PANEL– 125 AMP – 1 PHASE – EQUIPMENT MOUNTED	KES	–	–	–	KES	–	
123.40		1	PREP TABLE – HD – 2–SIDED COPL – 38"D x 83 1/2" – PIN & SLEEVE W/REF.	KES	91010	–	2	KES	–	
125.00		2	RAPID BUN STEAMER	PRINCE CASTLE	625–MFY	–	4	KES	–	
130.00		2	COMBI OVEN	CONVOTHERM	MS6102083LCMD1	E360598	4	KES	–	0.89kW, 69% STEAM MODE, 0.61kW, 81% CONVECTION MODE
134.02		1	VEGETABLE SINK	KES	SK04–4	–	2	KES	PROVIDE W/ BOWL COVER	
139.04		1	COMBI OVEN STAND – DOUBLE WIDE	KES	–	–	2	KES	–	
151.12		1	CLEAN DISHTABLE – LEFT HAND – 28.23"	KES	SK–SPL	–	2	KES	–	
151.46		1	SOILED DISHTABLE – RIGHT HAND – 90.5" WIDE	KES	SK–SPL	–	2	KES	–	
152.04		1	WAREWASHER HOOD	KES	–		3		TYPE 2 HOOD FOR NON GREASE APPLICATION – REQUIRED PER CODE	
152.09		1	WAREWASHER – HIGH TEMP	ECOLAB	XL–HTHH–VV	E5956	3	MANU–FACTURER	PROVIDE VAPOR VENT	IDLE ENERGY RATE=0.486kW, WATER CONSUMPTION=0.84 GAL./RACK
153.00		1	SCULLERY SHELVING KIT – 3 TIER – 14" x 36"	INTERMETRO	SHSS–4	–	2	KES	–	
153.04		1	SMALLWARE WALL ORGANIZER	INTERMETRO	SW1812–MPS	–	2	KES	–	
153.06		1	REUSABLE DRYING RACK	INTERMETRO	MCD2124–DRY6	–	2	KES	–	
154.00		1	BRUSH CABINET	KES	8047	–	4	KES	–	
157.00		1	TRASH LINER DISPENSER SHELF	KES	A0053	–	2	KES	–	
159.03		1	UNIVERSAL PARTS CART – 36" W	INTERMETRO	MCD–1836UPC	–	2	KES	–	
160.01		4	CHEMICAL SYSTEM	ECOLAB	–	–	–	MANU–FACTURER	–	
163.00		2	FIRE EXTINGUISHER – 5 LB. – ABC	ANSUL	SEE RMKS	–	–	SEE RMKS	LOCAL ANSUL AGENT SPECIFIES, SUPPLIES & LOCATES PER LOCAL CODE	
163.01		2	FIRE EXTINGUISHER – 6 L. – K GUARD	ANSUL	SEE RMKS	–	–	SEE RMKS	LOCAL ANSUL AGENT SPECIFIES, SUPPLIES & LOCATES PER LOCAL CODE	
163.02		4	REMOTE ANSUL PULL	ANSUL	4835	EX3470	–	SEE RMKS	CODE MAY REQUIRE LOCAL ANSUL AGENT TO SUPPLY	
171.01		1	WALK–IN COOLER / FREEZER FLOORLESS	NORLAKE	–	E42763	7	KES	–	
174.36		1	REMOTE CONDENSING UNIT	BOHN	BCH0010MBACZC0225	SA4272	–	KES	BEACON II/INTELLIGEN SYSTEM	
174.45		1	REMOTE CONDENSING UNIT	BOHN	BCH0055LCACZC0225	SA4272	–	KES	BEACON II/INTELLIGEN SYSTEM	
175.18		1	COOLER EVAPORATOR	BOHN	BEL0095BS6AMAD0096	SA1525	–	KES	INTELLIGEN EVAPORATOR	
176.27		1	FREEZER EVAPORATOR	BOHN	BEL0170BS6EEAD0096	SA1525	–	KES	INTELLIGEN EVAPORATOR	
177.03		1	REACH–IN REFRIGERATOR–SINGLE WIDE	BEVERAGE AIR	HR1HC–1HS	SA2651	7	KES	–	
178.05		3	REACH–IN FREEZER – SINGLE WIDE	BEVERAGE AIR	HF1HC–1HS	SA2651	7	KES	–	

x = Optional Equipment
GC = General Contractor
R = Relocated Equipment
VIF = Verify in Field

EQUIPMENT SCHEDULE

ITEM	O	QTY	DESCRIPTION	MANUFACTURER	MODEL #	UL	NSF	FURNISHED	GENERAL REMARKS	SPECIAL REQUIREMENTS
181.13		1	REFRIGERATOR – SPECIALTY COFFEE– 27" WIDE	TRUE	TUC–27 MCDCF1	SA33040	7	KES	RIGHT–HAND HINGED	
181.14		1	REFRIGERATOR – WORKTOP – 48" WIDE	TRUE	TWT–48 MCD1	SA4065	7	KES	–	
183.00		2	REFRIGERATOR/FREEZER – 2 DRAWER BASE – 30" W X 33" H	KES	18012498	SA4044	7	KES	–	
183.02		3	REFRIGERATOR/FREEZER – 2 DRAWER BASE – 30" W X 30" H	KES	18021304	SA4044	7	KES	–	
187.72		1	FREEZER SHELVING 24" x 42" x 74" H. – 4–TIER	ISS SHELVING	FSMS/FSMA742442E	–	2	KES	–	
187.75		2	FREEZER SHELVING 24" x 60" x 74" H. – 4–TIER	ISS SHELVING	FSMS/FSMA742460E	–	2	KES	–	
188.00		3	DUNNAGE RACK 22" x 36"	INTERMETRO	HP2236PD	–	2	KES	–	
188.07		1	UNIVERSAL STAGING CART	ISS SHELVING	WST1384Y	–	2	KES	–	
188.08		3	DUNNAGE RACK 22" x 30"	INTERMETRO	HP2230PD	–	2	KES	–	
188.09		5	DUNNAGE RACK 22" x 48"	INTERMETRO	HP2248PD	–	2	KES	–	
189.71		1	COOLER SHELVING 24" x 36" x 74" H. – 4–TIER	ISS SHELVING	FSMS/FSMA742436E	–	2	KES	–	
189.72		1	COOLER SHELVING 24" x 42" x 74" H. – 4–TIER	ISS SHELVING	FSMS/FSMA742442E	–	2	KES	–	
189.73		2	COOLER SHELVING 24" x 48" x 74" H. – 4–TIER	ISS SHELVING	FSMS/FSMA742448E	–	2	KES	–	
189.75		1	COOLER SHELVING 24" x 60" x 74" H. – 4–TIER	ISS SHELVING	FSMS/FSMA742460E	–	2	KES	–	
191.01		3	VALANCE SHELVING – 18" x 48"	INTERMETRO	M1848C–MP	–	2	KES	MOUNT AT 6'–8"AFF TO SHELF BOTTOM UNLESS OTHERWISE NOTED	
191.02		1	VALANCE SHELVING – 18" x 60"	INTERMETRO	M1860C–MP	–	2	KES	MOUNT AT 6'–8"AFF TO SHELF BOTTOM UNLESS OTHERWISE NOTED	
191.03		1	VALANCE SHELVING – 18" x 30"	INTERMETRO	M1830C–MP	–	2	KES	MOUNT AT 5'–0"AFF TO SHELF BOTTOM FOR ABOVE WASHER APPLICATION	
191.04		1	VALANCE SHELVING – 18" x 36"	INTERMETRO	M1836C–MP	–	2	KES	MOUNT AT 5'–0"AFF TO SHELF BOTTOM –W/ST STL LINER FOR SALAD EQUIP	
194.35		3	DRY SHELVING 26" x 88" x 84" H.– 4–TIER – MOBILE	DENSTOR	–	–	2	KES	–	
194.49		1	DRY SHELVING 26" x 76" x 84" H.– 4–TIER – FIXED	DENSTOR	–	–	2	KES	–	
195.35		2	DRY SHELVING 26" x 88" x 84" H.– 5–TIER – MOBILE	DENSTOR	–	–	2	KES	–	
195.50		1	DRY SHELVING 26" x 88" x 84" H.– 5–TIER – FIXED	DENSTOR	–	–	2	KES	–	
196.06		1	SAFE – STANDARD BLDG. – LEFT HINGE	NKL	BSD4125FGXL–MC	–	–	OWNER	–	
197.00		2	STAINLESS STEEL HAND SINK	ADVANCE TABCO	7–PS–61	–	2	GC	REFER TO PLUMB. DWGS. FOR DETAILS, SOAP & TOWEL DISP. BY OTHERS	PROVIDE SIDE SPLASHES (7–PS–11) WHEN REQUIRED BY LOCAL CODE
197.01		1	HAND WASH TIMER	NATIONAL CONTROLS	TMD–T1715–120	E53595	–	KES	–	
197.03		2	STAINLESS STEEL HAND SINK – ADA	ADVANCE TABCO	7–PS–26	–	2	GC	REFER TO PLUMB. DWGS. FOR DETAILS, SOAP & TOWEL DISP. BY OTHERS	PROVIDE SIDE SPLASHES (7–PS–11D) WHEN REQUIRED BY LOCAL CODE
201.13		1	DRIVE–THRU CASH STAND – 21" D x 48" W	INTERMETRO	DT48–8	–	2	KES	SOLID WORK TOP, WIRE SHELVES	
201.15		1	READY NEXT DRIVE–THRU ASSEMBLY CART – 12" D x 36" W	INTERMETRO	DTPC–36	–	2	KES	–	
201.16		2	DRIVE–THRU ABS CART – LEFT HAND	KES	–	–	2	KES	ABS DRINK STAGING CART WITH TROUGH	
201.18		2	CBB STAGING CART	INTERMETRO	MCD–CBB	–	2	KES	–	
201.21		1	BLZ FRONT COUNTER TABLE – 30" D x 14" W	INTERMETRO	MCD1430–BLZM	–	2	KES	W/ CASTERS AND OVERSHELF	
203.01		1	HEAT TREAT COMBINATION SHAKE/SUNDAE MACHINE	CARPIGIANNI	K3	SA4203	6	KES	SUPPLIED WITH CONE DISPENSER AND 7'–6" LONG CORD	
203.03		2	CUP/CONE DISPENSER	KES	–	–	2	KES	–	
205.08		1	BIC MACHINE	MULTPLEX	MA–8–2	SA12070	6	KES	–	
205.09		1	FROZEN BEVERAGE DISPENSER	IMI CORNELIUS	VIPER 3	SA2128	6	KES	–	
206.01		1	SPECIALTY BEVERAGE STANDOFF SHELF	KES	KES	–	2	KES	MOUNT SHELF @ 2'–6" AFF	
207.01		1	BLENDER – RAIL MOUNT – MCFLURRY	VITAMIX	056385	–	8	KES	SUPPLIED MOUNTING BRACKETS	
207.09		1	DESSERT BUTLER	KES	–	–	2	KES	–	–
211.00		1	DELIVERY TABLET	APPLE	IPAD	–	–	DELIVERY PARTNER	QUANTITY DEPENDENT UPON NUMBER OF DELIVERY PARTNERS	
214.02		1	82" 44U STATIONARY RACK	BY OWNER	BY OWNER	OEM	–	OWNER	–	
215.00		1	POS REGISTER – FRONT COUNTER	BY OWNER	BY OWNER	OEM	–	OWNER	INCLUDES MONITOR AND CPU	
215.02		4	POS REGISTER – 2 WINDOW D/T	BY OWNER	BY OWNER	OEM	–	OWNER	INCLUDES MONITOR AND CPU	
215.04		8	POS – KVS MONITOR	BY OWNER	BY OWNER	OEM	–	OWNER	–	
215.07		1	POS REGISTER – DELIVERY	BY OWNER	BY OWNER	OEM	–	OWNER	–	
216.00		8	POS – VIDEO MONITOR	BY OWNER	BY OWNER	E106786	–	OWNER	SUPPORTS INSTALLED BY GC IF REQUIRED – MOUNT @ 5'–8" AFF	FOR APPLICATIONS ABOVE ABS, MOUNT AT 6'–6" AFF
217.13		3	MERGE POINT MONITOR (DOUBLE DRIVE–THRU)	BY OWNER	BY OWNER	–	–	OWNER	MONITORS ARE REQUIRED FOR SIDE BY SIDE DRIVE THRU SYSTEM	–
217.14		1	POS – ORDER MONITOR (DOUBLE DRIVE THRU)	BY OWNER	BY OWNER	E106786	–	OWNER	SUPPORTS INSTALLED BY GC IF REQUIRED – MOUNT @ 5'–8" AFF	
217.19		1	WIRELESS HEADSET BASE STATION	HME	NEXEO HDX	–	–	OWNER	–	
217.24		1	DANGER POINT MONITOR (DOUBLE DRIVE–THRU)	BY OWNER	BY OWNER	–	–	OWNER	MONITORS ARE REQUIRED FOR SIDE BY SIDE DRIVE THRU SYSTEM	
217.26		1	ZOOM TIMER	HME	ZOOM NITRO	–	–	OWNER	–	
219.00		4	POS – RECEIPT PRINTER	BY OWNER	BY OWNER	OEM	–	OWNER	–	
219.05		7	STICKY LABEL PRINTER	BY OWNER	BY OWNER	OEM	–	OWNER	–	–
219.06		1	LABELING SYSTEM	TRANSACT	9700	–	–	KES	–	
220.00		1	POS – COIN DISPENSER	BY OWNER	BY OWNER	OEM	–	OWNER	–	
221.01		1	777 3BU ROLLING RACK	PARAGON	PRMCD77CA	OEM	–	OWNER	–	
221.09		1	O/O EQUIPMENT RACK	TRIPP–LITE	SRW12USDP	–	–	OWNER	AVAILABLE THROUGH POS SUPPLIER	
222.01		1	TIME CLOCK	BY OWNER	BY OWNER	OEM	–	OWNER	–	
223.07		1	WASHER – ELECTRIC	WHIRLPOOL	CAE2793BQ	–	–	KES	–	
225.03		1	OFFICE PACKAGE/DESK UNIT	DENSTOR	2000–0100	–	–	KES	WORK SURFACE 75", (1) DESK PEDESTAL W/ 2 DRAWERS AND (1) PEDESTAL W/ 3 DRAWERS	
225.04		1	OFFICE PACKAGE/ 2–WALL CABINETS	DENSTOR	2000–0200	–	–	KES	–	
225.05		1	OFFICE PACKAGE/HIGH WORK SURFACE	DENSTOR	2000–0300	–	–	KES	W/ (6) L–BRACKETS – WORK SURFACE IS 75" W. – CUT IN FIELD IF REQUIRED	
225.06		1	OFFICE PACKAGE W/3 DRAWER LATERAL FILE	DENSTOR	2000–0400	–	–	KES	–	
226.08		4	CREW LOCKERS –12" x 12" x 18" (6 HIGH)	DENSTOR	3–121278	–	2	KES	–	
237.00		1	PIE DISPLAY	PRINCE CASTLE	524–MCDC	E341354	4	KES	PROVIDE WITH S/S PANEL	
700.02		2	MOP SINK	GC	–	–	2	GC	–	
700.07		1	WATER HEATER – GAS	GC	SEE RMKS	–	2	GC	REFER TO PLUMB. DWGS. FOR DETAILS	
700.09		1	ECONOMY OEP BOX W/MOUNTING HARDWARE	ACS	OEP–6	E71309	–	KES	6" W. x 24" D.	
700.10	X	1	BULK OIL SYSTEM	RTI	BI–3F	SEE RMKS	4	MANU–FACTURER	IF AVAILABLE IN MARKET – ETL ELECTRICAL RATING: 9900762	
700.11		1	OEP UTILITY PANEL W/ MOUNTING HARDWARE – STATIC BOX	H&K DALLAS	–	–	–	H&K DALLAS	2'–4"x2'–4" x4" HIGH BOX	
700.18	X	1	BULK OIL FILL BOX – 8"Wx10"H	RTI	–	–	–	MANU–FACTURER	SEE EXTERIOR ELEVATIONS FOR MOUNTING HEIGHT, INSTALLED BY GC	

SEE SHEET K2.0 FOR EQUIPMENT LAYOUT AND TAG IDENTIFICATION

1 / K2.1 KITCHEN SCHEDULE

LINGLE DESIGN GROUP INC
158 WEST MAIN STREET
LENA, IL 61048
815.369.9155
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CARL LINGLE LICENSED 7997 KANSAS ARCHITECT

04–08–26

STATE ID: 150404
PROJECT #: 26-028
NATIONAL #: 44655
DRAWN BY: CR
CHECKED BY: JK

DATE:
04/08/26 - PERMIT / BID SET

REVISIONS
1 05/07/26 - QC COMMENTS/ADA UPDATE
2 06/22/26 - CITY COMMENTS / DECOR

CLIENT
McDonald's USA, LLC

PROTOTYPE
BB20 4584 WW-HB
ISSUE DATE 02/25

ADDRESS
707 1/2 METROPOLITAN AVE
LEAVENWORTH, KS 66048

SHEET TITLE
KITCHEN SCHEDULE

SHEET NUMBER:
K2.1

GENERAL NOTES

- ALL DESIGNS AND PLANS REPRESENTED ON THESE DRAWINGS ARE OWNED BY JBI AND WERE CREATED FOR USE ON THE SPECIFIED PROJECT. NONE OF THE IDEAS, DESIGNS, ARRANGEMENTS OR PLANS REPRESENTED BY THESE DRAWINGS SHALL BE USED BY OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION FROM JBI
- WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. ALL DIMENSIONS INDICATED ON THESE PLANS ARE FROM INSIDE WALL SURFACES. DO NOT SCALE OFF OF THESE PLANS - CONTACT JBI TO VERIFY ANY QUESTIONABLE DIMENSIONS.
- REFER TO ARCHITECTURAL AND/OR ENGINEERING DRAWINGS FOR COMPLETE AND ACCURATE DIMENSIONS OF BUILDING STRUCTURE.
- DO NOT USE FOR CONSTRUCTION UNLESS THE DRAWING HAS BEEN APPROVED BY THE CUSTOMER AND MARKED "APPROVED FOR CONSTRUCTION".
- DUE TO UNFORESEEN CHANGES THAT OCCUR DURING CONSTRUCTION, CONSTRUCTION MANAGER, AND/OR G.C. MUST VERIFY ALL INTERIOR BUILDING DIMENSIONS, EQUIPMENT, FURNITURE PLACEMENT, UTILITY LOCATIONS AND CONDITIONS AT THE JOB SITE AND NOTIFY JBI OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION, MANUFACTURING, CORE DRILLING OR INSTALLATION.
- JBI MUST BE COPIED ON ANY BUILDING OR ARCHITECTURAL DRAWING CHANGES.
- JBI SHALL NOT BE RESPONSIBLE FOR UNDISCLOSED OR UNSEEN SITE CONDITIONS.
- CORE DRILL EQUIPMENT REQUIRES A MINIMUM 5" THICK CONCRETE SLAB. G.C. TO FINISH CORE DRILL HOLES WITH 1/4" GROUT TO MATCH FLOOR TILE GROUT.
- JBI ASSUMES THAT THERE IS NO INTERFERENCE IN SLAB FOR CORE DRILLED HOLES. ALL ELECTRICAL CONDUITS, WATER LINES, POST TENSION CABLES, ETC. LOCATED IN THE SLAB MUST BE IDENTIFIED BY THE ARCHITECT AND/ OR GC AND NOTED AND ACKNOWLEDGED ON JBI DESIGN DOCUMENTS; COST FOR ALL REPAIRS RELATED TO HIDDEN CONDITIONS ARE THE RESPONSIBILITY OF THE CUSTOMER.
- FOR REMODEL INSTANCES JBI ASSUMES THAT ALL EXISTING STEEL WAS PROPERLY REMOVED IN ITS ENTIRETY AND ALL HOLES FILLED
- JBI PROVIDES RECOMMENDATIONS FOR OWNER/G.C. SUPPLIED ITEMS. IT IS THE RESPONSIBILITY OF THE OWNER/G.C. TO APPROVE AND OBTAIN SPECIFIED PRODUCTS. THE OWNER'S RESPONSIBILITIES INCLUDE ALL CONTRACTS WITH THE GENERAL & SUB CONTRACTORS AND THEIR COMPLIANCE WITH THESE SPECIFICATIONS.
- JBI DOES NOT WARRANT RECOMMENDED MATERIALS SUPPLIED BY THE OWNER/ G.C. THE WARRANTY IS PROVIDED BY THE SELLER OR MANUFACTURER OF THE MATERIAL.
- IN RARE INSTANCES, THE OWNER/G.C. MAY BE REQUIRED TO REMOVE A WINDOW IN ORDER TO GAIN FURNITURE ACCESS INTO THE DINING AREA.

FINAL APPROVAL TERMS

- PLEASE SIGN THIS COVER PAGE TO INDICATE ACCEPTANCE OF PROJECT AS SHOWN IN DRAWING PACKAGE.
- A SIGNED SALES ORDER SIGNIFIES AN OBLIGATION TO PROCEED WITH THE EXECUTION OF THE SPECIFIED PROJECT.
- A DEPOSIT IS REQUIRED TO START PRODUCTION.
- CHANGE ORDERS ARE SUBJECT TO A MINIMUM $500 PROCESSING FEE.
- ALL ITEMS PRODUCED FOR YOUR PROJECT ARE CUSTOM MADE TO FIT THE BUILDING BASED ON INFORMATION GATHERED DURING THE INITIAL JOB SITE SURVEY OR THE PROVIDED ARCHITECTURAL DRAWINGS. SUCH PRODUCTS MAY NOT BE RETURNED OR EXCHANGED. JBI MUST BE NOTIFIED OF ANY BUILDING OR ARCHITECTURAL DRAWING CHANGES IN ORDER TO ENSURE PROPER PRODUCT FIT.

PLEASE SEE FINAL APPROVAL TERMS

ON SITE DATE	---
CUSTOMER SIGNATURE DUE DATE	---

Customer Name: _____

Customer Signature/Date: _____

PROJECT INFORMATION:

PROJECT NO.....:	B-McD64744
NAT'L STORE NO.:	44655
SITE ID.....:	015-0404
CUSTOMER.....:	CODEE LYNCH
ADDRESS.....:	707 1/2 METROPOLITAN AVE
CITY / STATE.....:	LEAVENWORTH, KANSAS

JBI CONTACTS:

PROJECT MANAGER:
CORY KIKKAWA
(310) 667-5616
ckikkawa@jbi-interiors.com

PROJECT COORDINATOR:
VERONICA POZO
(310) 667-5667

LEAD DESIGNER:
JESSIE ALMAZAN
(310) 667-5626

J B I

2650 El Presidio Street
Long Beach, CA 90810
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F 1 310 604 3827
www.jbi-interiors.com

PRELIMINARY NOT FOR CONSTRUCTION

*BID SET / BRAND REVIEW SUBMITTAL SET

KIOSK REVIEW
APPROVAL: GRANTED
DATE: 04-06-26

CURRENT REVISION LETTER - DATE 05-01-26

THIS SET INCLUDES:

REVISION HISTORY:

0-COVER SHEET	-	05-01-26	GM
1a-SEATING LAYOUT PLAN	-	05-01-26	ALV
1b-CORE DRILL PLAN	-	TO FOLLOW-	
2-SHADED PLAN	-	05-01-26	GM
3-FINISH PLAN	-	05-01-26	GM
4-CEILING PLAN	-	05-01-26	GM
5a-ELEVATIONS	-	05-01-26	GM
5b-ELEVATIONS	-	05-01-26	GM
5c-ELEVATIONS	-	05-01-26	GM
5d-ELEVATIONS	-	05-01-26	GM
6-STANDARD DETAILS	-	05-01-26	GM
7-GRAPHIC CROP GUIDE	-	05-01-26	GM
8a-JBI LEGEND	-	05-01-26	GM
8b-JBI LEGEND	-	05-01-26	GM
8c-JBI LEGEND	-	05-01-26	GM
9a-GC LEGEND	-	05-01-26	GM
9b-GC LEGEND	-	05-01-26	GM
9c-GC LEGEND	-	05-01-26	GM

LUNA
OPTIMIZED

SET DRAWN / REVISED FROM	DATE RECEIVED:	OBTAINED FROM:
BUILDING LAYOUT DRAWN FROM ARCHITECTURAL PLANS	02-27-26	ARCHITECT
---	-	-
---	-	-
---	-	-

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CARL LINGLE LICENSED 7997 KANSAS ARCHITECT

04-08-26

STATE ID: 150404
PROJECT #: 26-028
NATIONAL #: 44655
DRAWN BY: CR
CHECKED BY: JK

DATE:
04/08/26 - PERMIT / BID SET

REVISIONS
1 05/07/26 - QC COMMENTS/ADA UPDATE
2 06/22/26 - CITY COMMENTS / DECOR

CLIENT
McDonald's USA, LLC

PROTOTYPE
BB20 4584 WW-HB
ISSUE DATE 02/25

ADDRESS
707 1/2 METROPOLITAN AVE
LEAVENWORTH, KS 66048

SHEET TITLE
DECOR PLAN

SHEET NUMBER:
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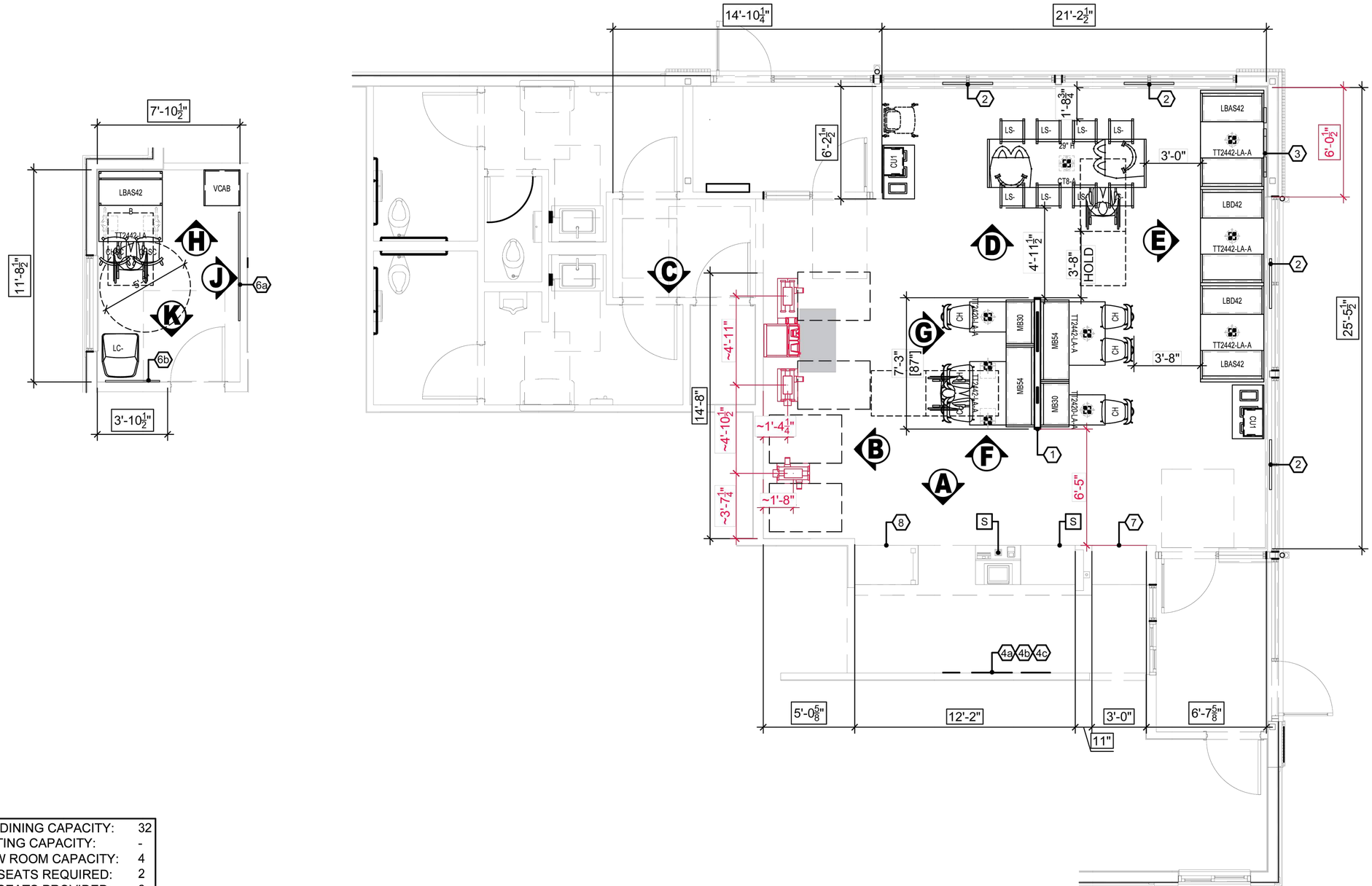

NEW DINING CAPACITY:	32
EXISTING CAPACITY:	-
CREW ROOM CAPACITY:	4
ADA SEATS REQUIRED:	2
ADA SEATS PROVIDED:	2

ALL BOXED DIMENSIONS ARE TO BE FIELD VERIFIED

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REVISIONS

LTR	DATE	BY	CHK'D

LUNA OPTIMIZED

SITE ID:	44655
STORE NUMBER:	015-0404

707½ METROPOLITAN AVE
LEAVENWORTH, KANSAS

SEATING LAYOUT PLAN

DATE: 05-01-26

SCALE: 3/16" = 1'-0"

DESIGNER: ALV | CHK'D:

DRAWING NUMBER | PAGE

B-McD64744 | **1a**

LINGLE DESIGN GROUP INC
158 WEST MAIN STREET
LENA, IL 61048
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CARL LINGLE LICENSED 7997 KANSAS ARCHITECT

04-08-26

STATE ID: 150404
PROJECT #: 26-028
NATIONAL #: 44655
DRAWN BY: CR
CHECKED BY: JK

DATE:
04/08/26 - PERMIT / BID SET

REVISIONS
1 05/07/26 - QC COMMENTS/ADA UPDATE
2 06/22/26 - CITY COMMENTS / DECOR

CLIENT
McDonald's USA, LLC

PROTOTYPE
BB20 4584 WW-HB
ISSUE DATE 02/25

ADDRESS
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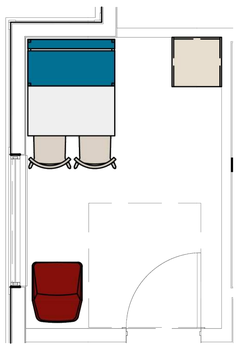
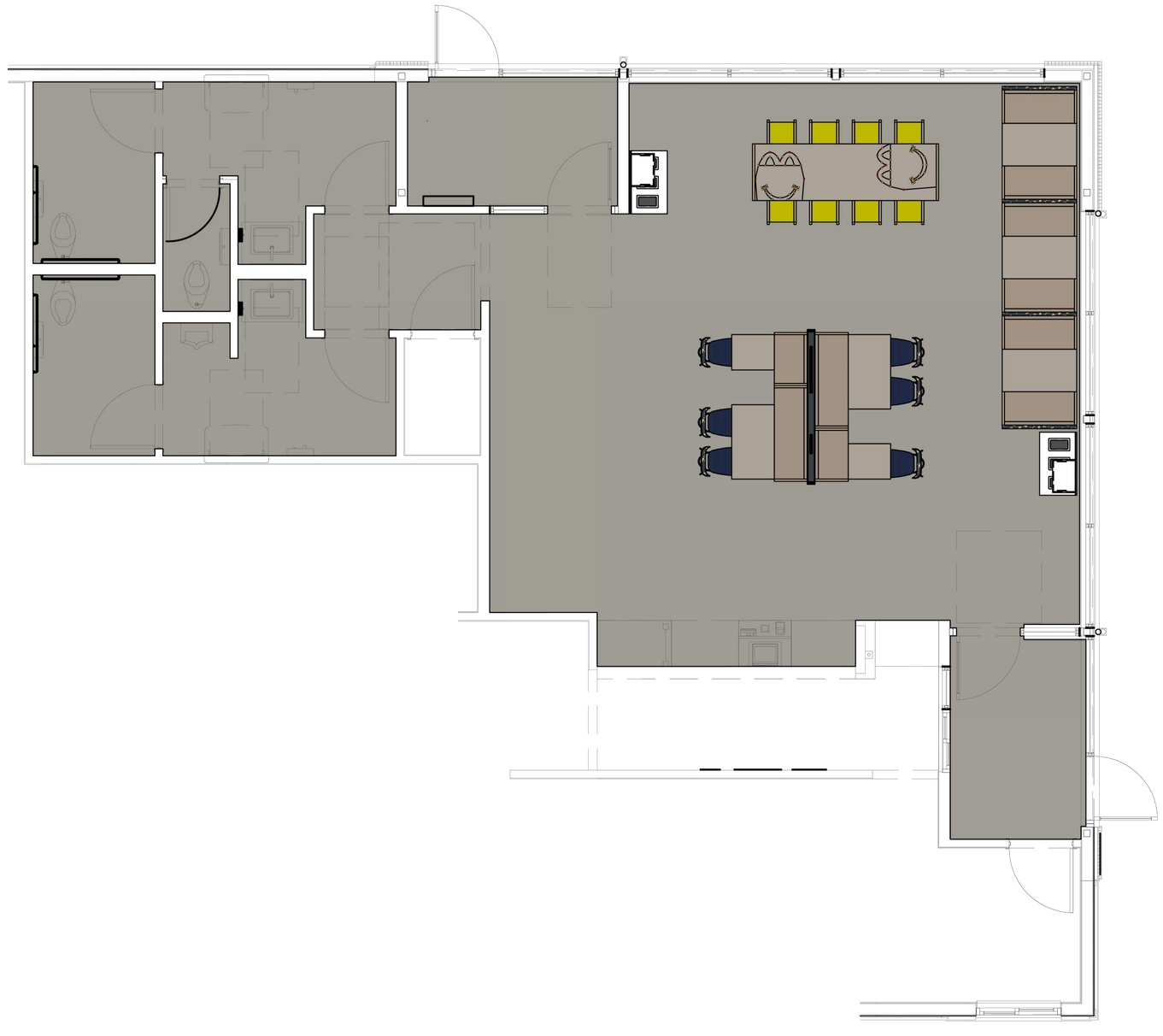
LEAVENWORTH, KS 66048

SHEET TITLE
DECOR PLAN

SHEET NUMBER:
1a 2





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LUNA OPTIMIZED

SITE ID: 44655

STORE NUMBER: 015-0404

707½ METROPOLITAN AVE
LEAVENWORTH, KANSAS

SHADED PLAN

DATE: 05-01-26

SCALE: 3/16" = 1'-0"

DESIGNER: GM | CHK'D:

DRAWING NUMBER | PAGE

B-McD64744 | **2**

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ISSUE DATE 02/25

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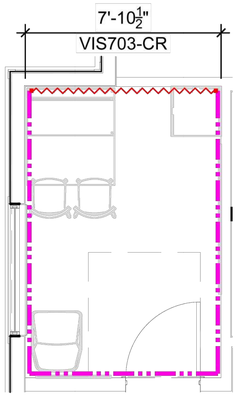
LEAVENWORTH, KS 66048

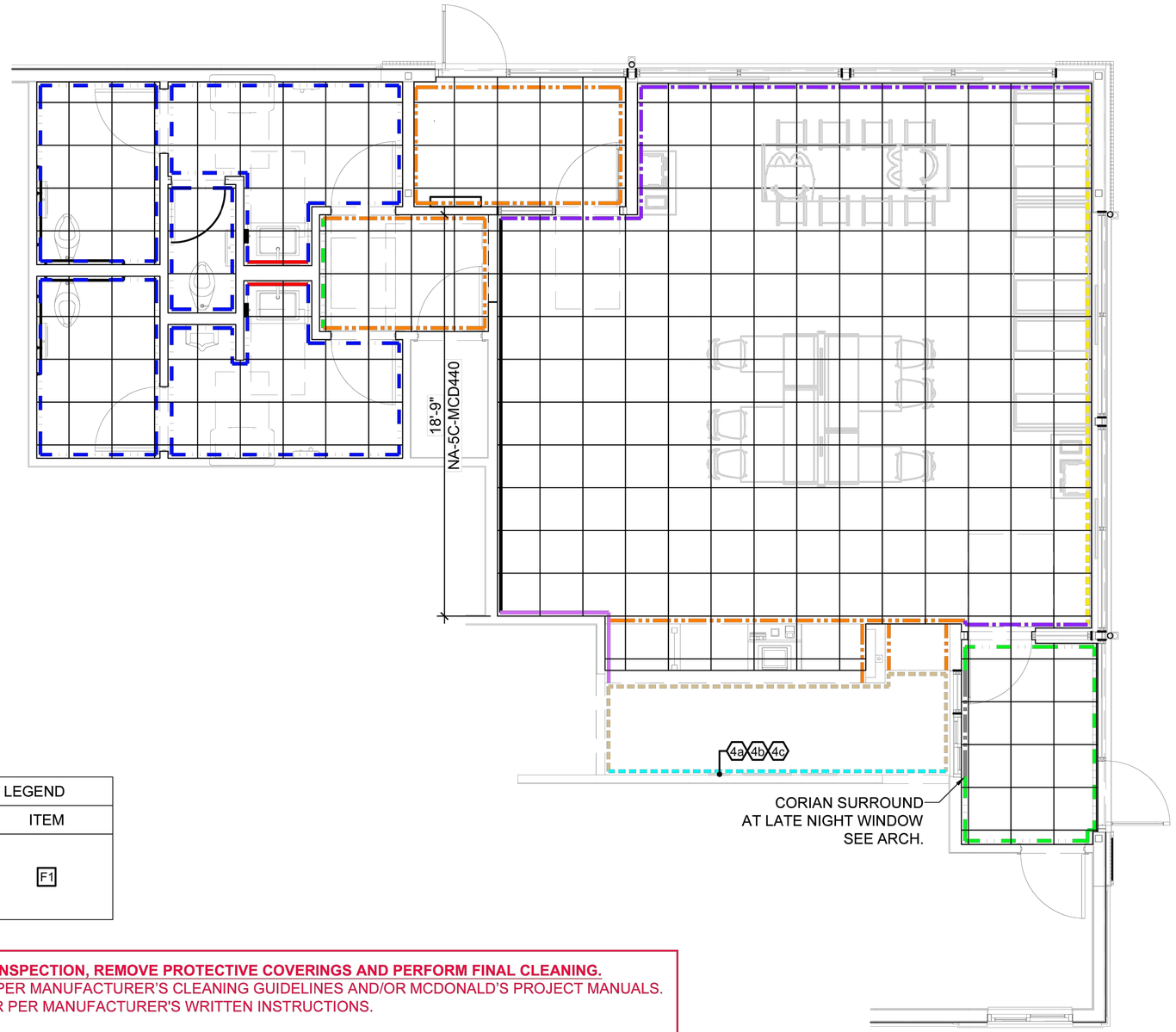
SHEET TITLE

DECOR PLAN

SHEET NUMBER:

2





WALL FINISH LEGEND	
SYMBOL	ITEM
	G1 J K L2 L4
	G2 F1 J L4
	G3 F1 L4
	G4 J K L2 L4
	G4 F1 L4
	G4 L2 N1
	H
	K L3
	M K L2
	M L1
	N1 L3
	N2
	AA

FLOOR TILE LEGEND	
SYMBOL	ITEM
	F1

BEFORE FINAL INSPECTION, REMOVE PROTECTIVE COVERINGS AND PERFORM FINAL CLEANING.
TILE CLEANER: PER MANUFACTURER'S CLEANING GUIDELINES AND/OR MCDONALD'S PROJECT MANUALS.
APPLY CLEANER PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

POST CONSTRUCTION CLEANING REQUIRED ON ALL INSTALLATIONS PRIOR TO RESTAURANT TURN OVER.

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REVISIONS

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LUNA OPTIMIZED

SITE ID:	44655
STORE NUMBER:	015-0404

707½ METROPOLITAN AVE
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FINISH PLAN

DATE: 05-01-26	
SCALE: 3/16" = 1'-0"	
DESIGNER: GM	CHK'D:
DRAWING NUMBER	PAGE
B-McD64744	**3**

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CARL LINGLE LICENSED 7997 KANSAS ARCHITECT
04-08-26

STATE ID: 150404	**PROJECT #:** 26-028
NATIONAL #: 44655	**DRAWN BY:** CR
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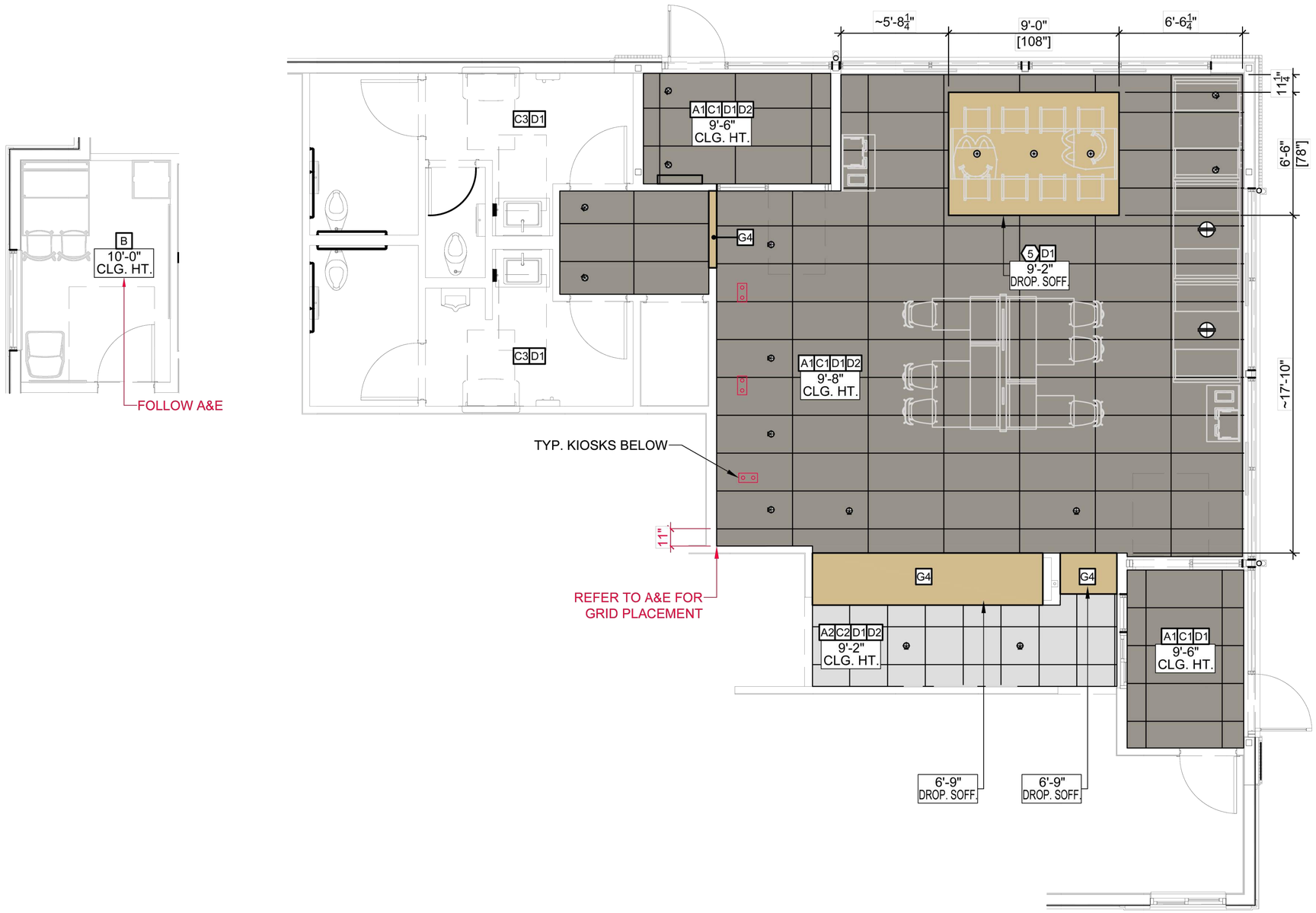
DECOR PLAN

SHEET NUMBER:
3



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REVISIONS

LTR	DATE	BY	CHK'D

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SITE ID:	44655
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707½ METROPOLITAN AVE
LEAVENWORTH, KANSAS

CEILING PLAN

DATE: 05-01-26	
SCALE: 3/16" = 1'-0"	
DESIGNER: GM	CHK'D:
DRAWING NUMBER	PAGE
B-McD64744	**4**

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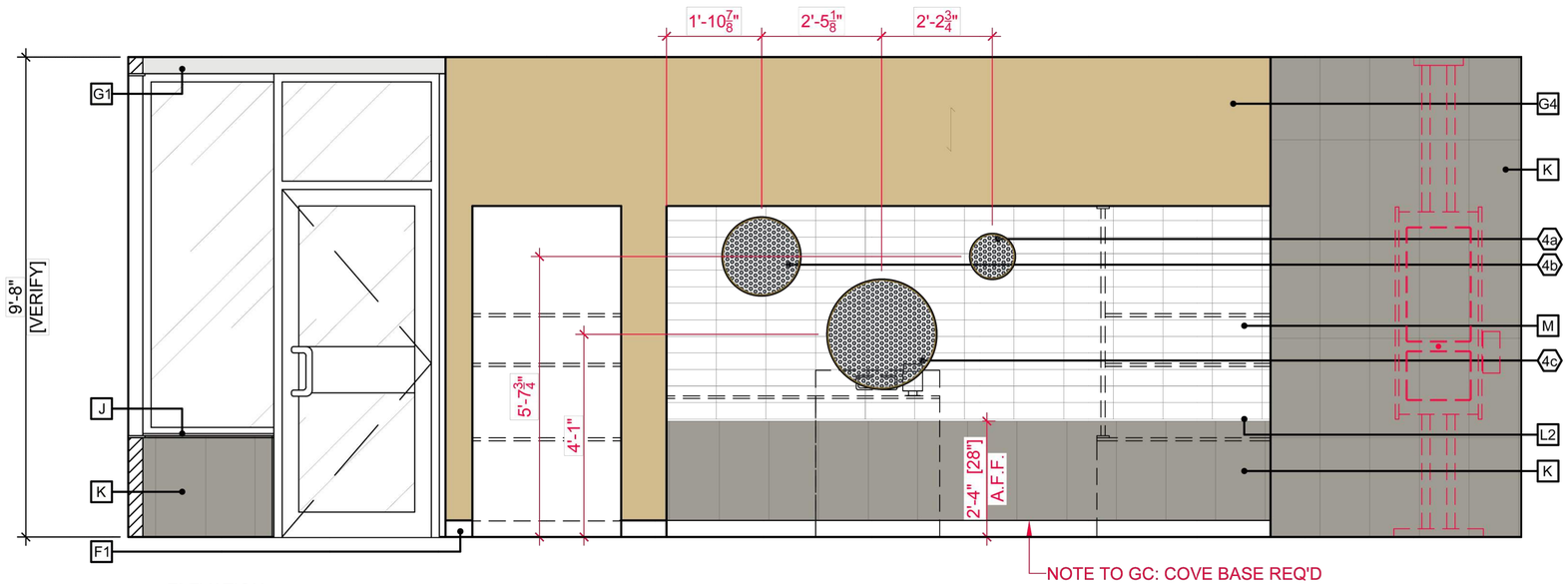
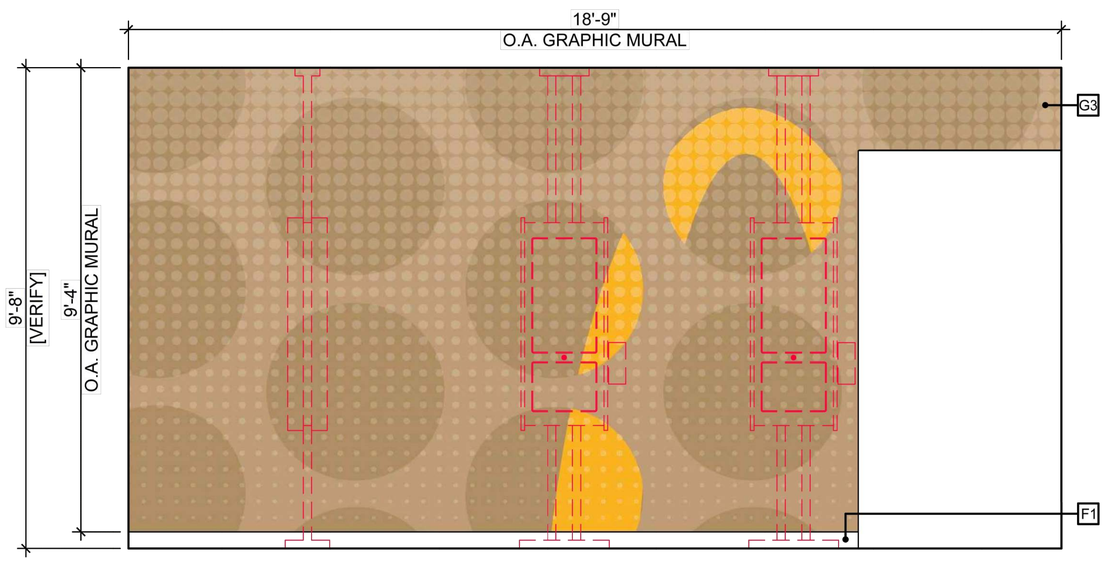
SHEET TITLE
DECOR PLAN

SHEET NUMBER:
4



A ELEVATION



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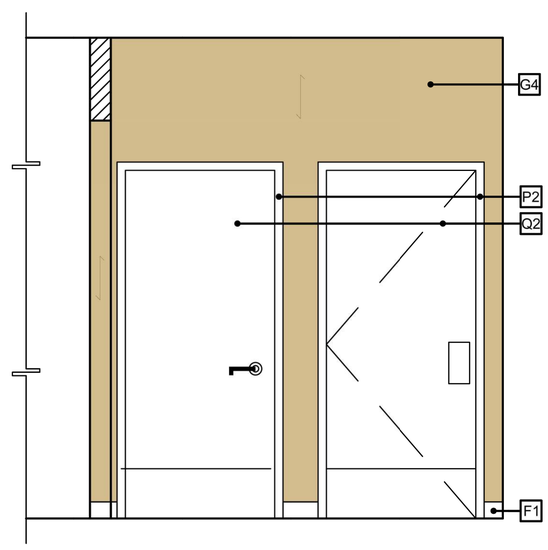

C ELEVATION

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REVISIONS

LTR	DATE	BY	CHK'D

LUNA OPTIMIZED

SITE ID:	44655
STORE NUMBER:	015-0404

707½ METROPOLITAN AVE
LEAVENWORTH, KANSAS

ELEVATIONS

DATE: 05-01-26

SCALE: 3/8" = 1'-0"

DESIGNER: GM	CHK'D:
DRAWING NUMBER	PAGE
B-McD64744	**5a**

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ISSUE DATE 02/25

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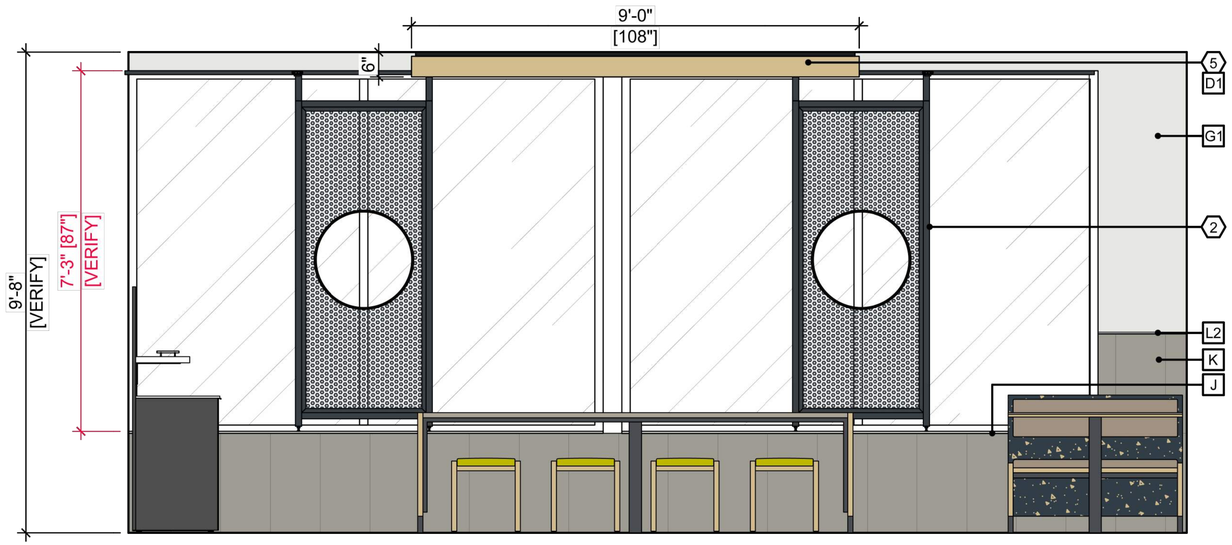
LEAVENWORTH, KS 66048

SHEET TITLE
DECOR PLAN

SHEET NUMBER:
5a 2



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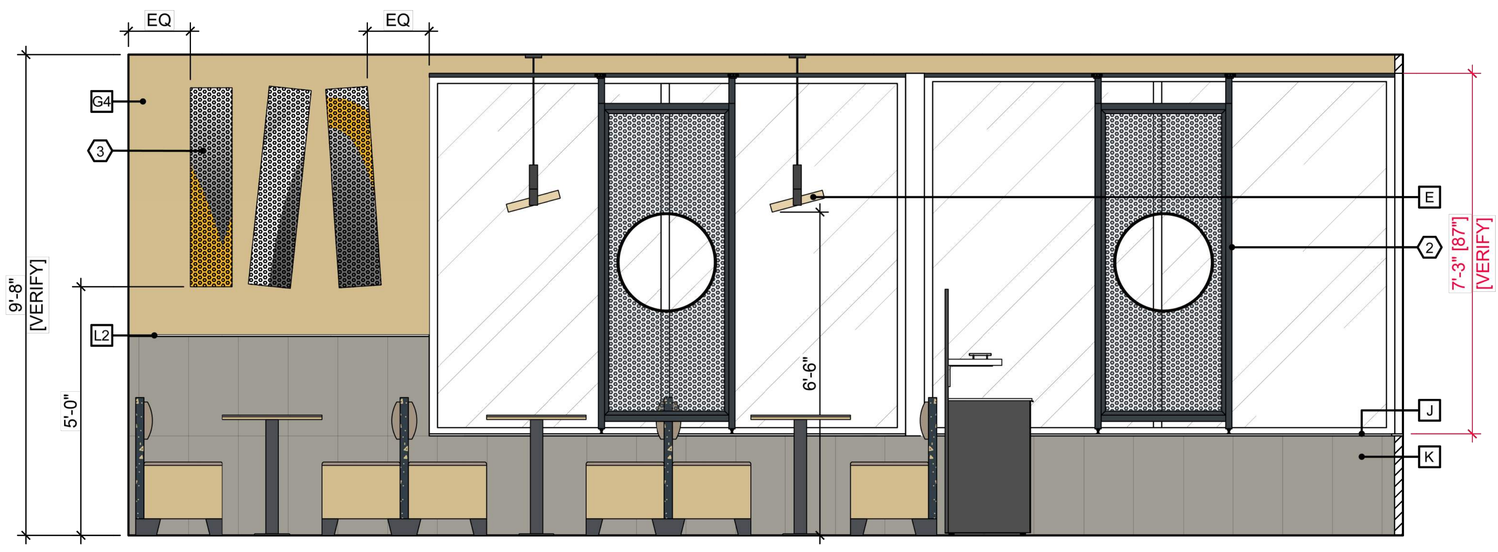

E ELEVATION

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REVISIONS

LTR	DATE	BY	CHK'D

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SITE ID:	44655
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707½ METROPOLITAN AVE
LEAVENWORTH, KANSAS

ELEVATIONS

DATE: 05-01-26

SCALE: 3/8" = 1'-0"

DESIGNER: GM	CHK'D:
DRAWING NUMBER	PAGE
B-McD64744	**5b**

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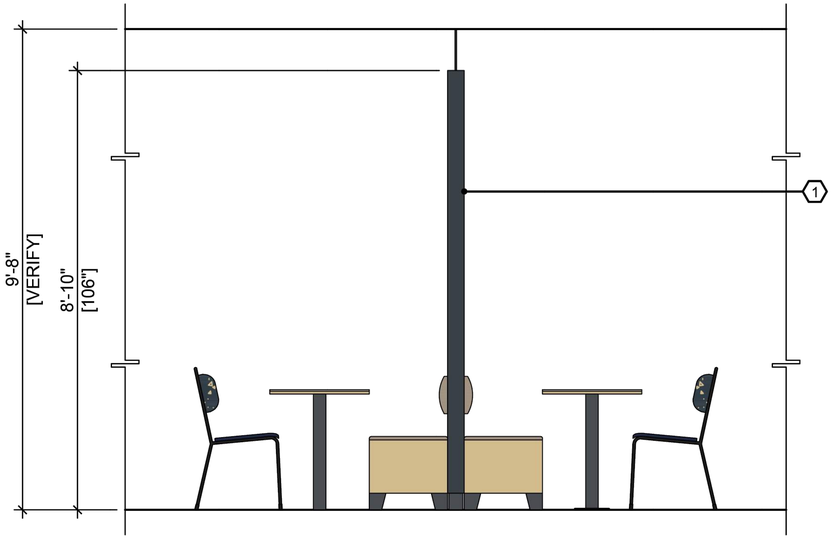
SHEET TITLE
DECOR PLAN

SHEET NUMBER:
5b 2



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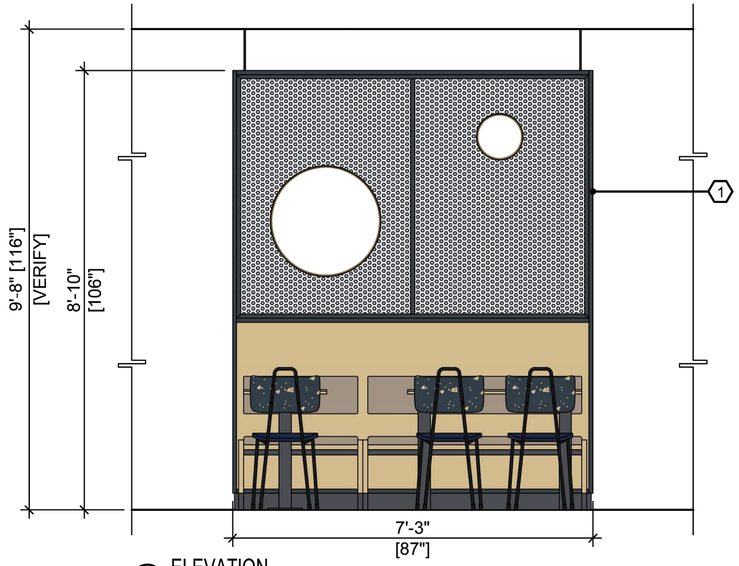

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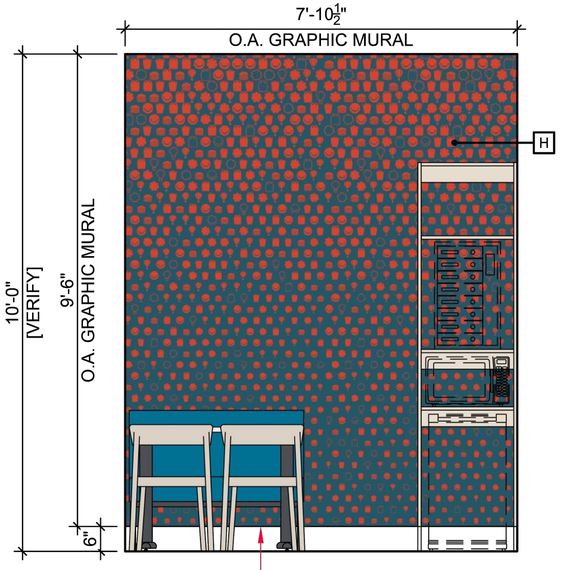
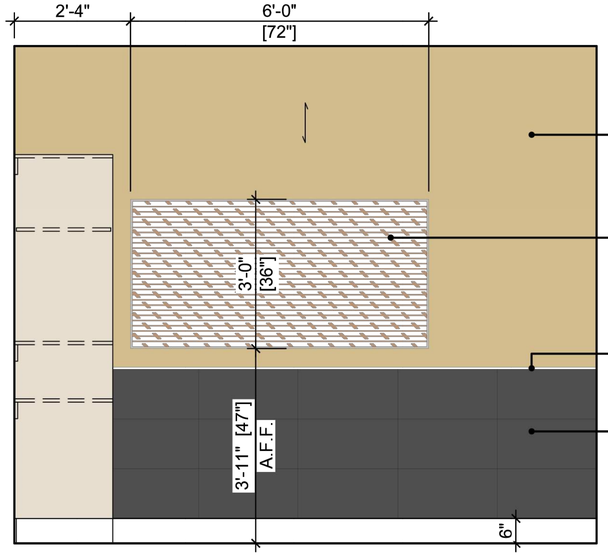
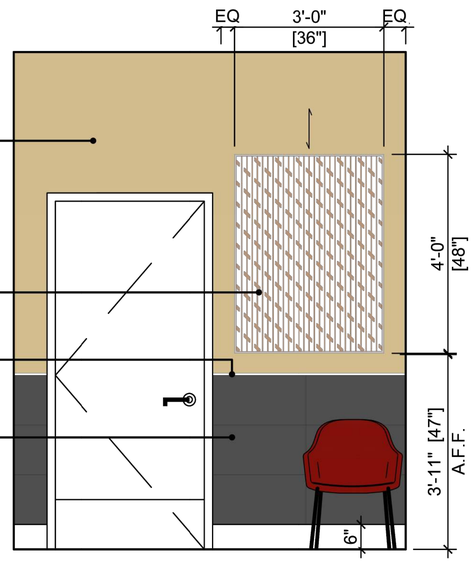


NOTE: GC TO START GRAPHIC MURAL AT THE BOTTOM AND TRIM AT THE TOP.

H ELEVATION
CREW ROOM



J ELEVATION
CREW ROOM



K ELEVATION
CREW ROOM

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REVISIONS

LTR	DATE	BY	CHK'D

LUNA OPTIMIZED

SITE ID:	44655
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707½ METROPOLITAN AVE
LEAVENWORTH, KANSAS

ELEVATIONS

DATE: 05-01-26

SCALE: 3/8" = 1'-0"

DESIGNER: GM	CHK'D:
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B-McD64744	5c

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SHEET TITLE
DECOR PLAN

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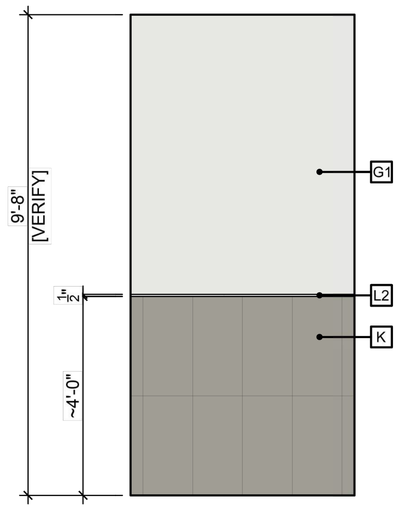
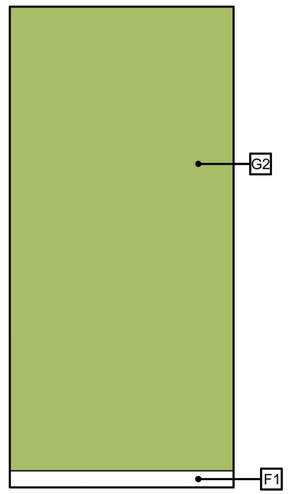
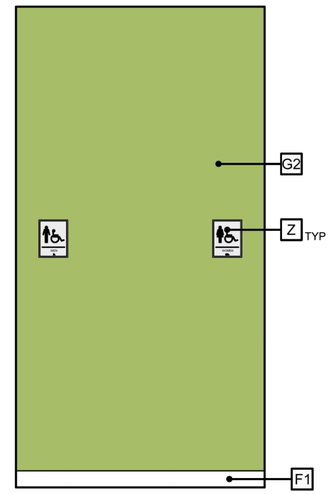
5c



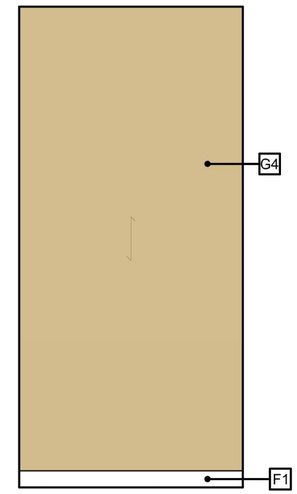
CREAM VWC



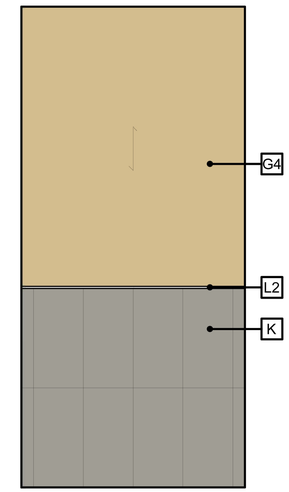
GREEN VWC



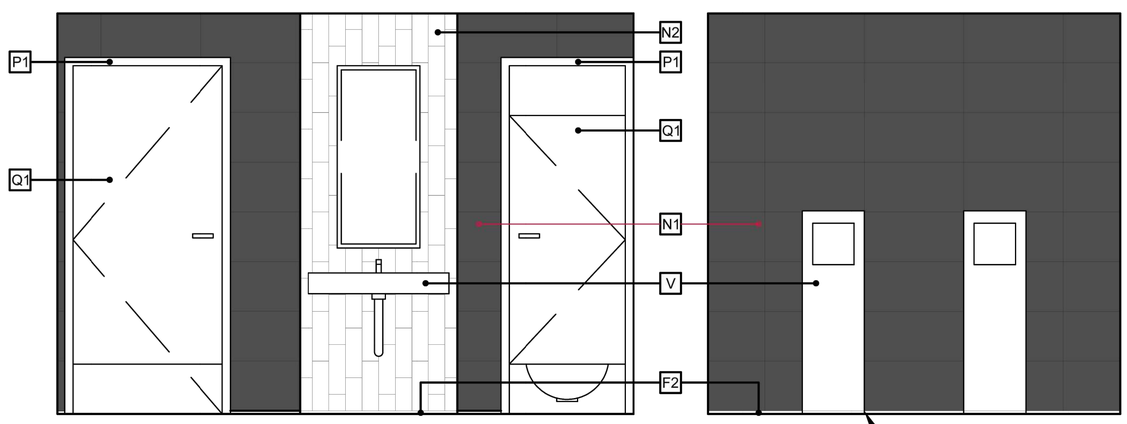
TYPICAL RESTROOM SIGNAGE



FULL HT. WOOD VWC



WOOD VWC



TYPICAL RESTROOM WALL TILE

G.C. TO ALIGN CORIAN PANEL WITH TILE GROUT LINE

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DECOR PLAN

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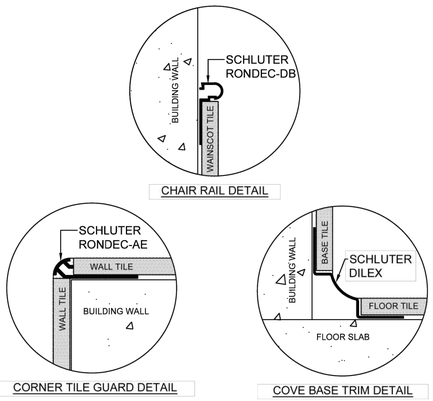
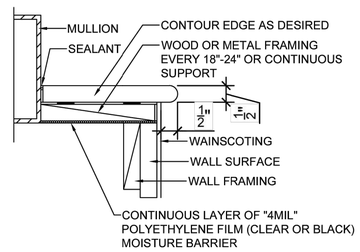
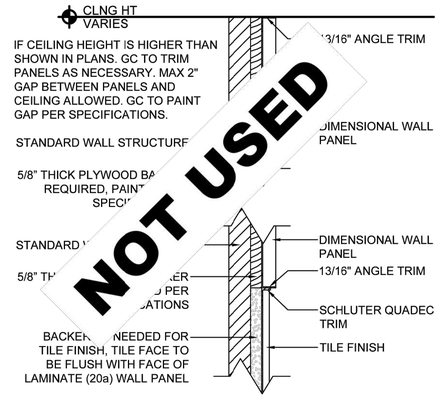


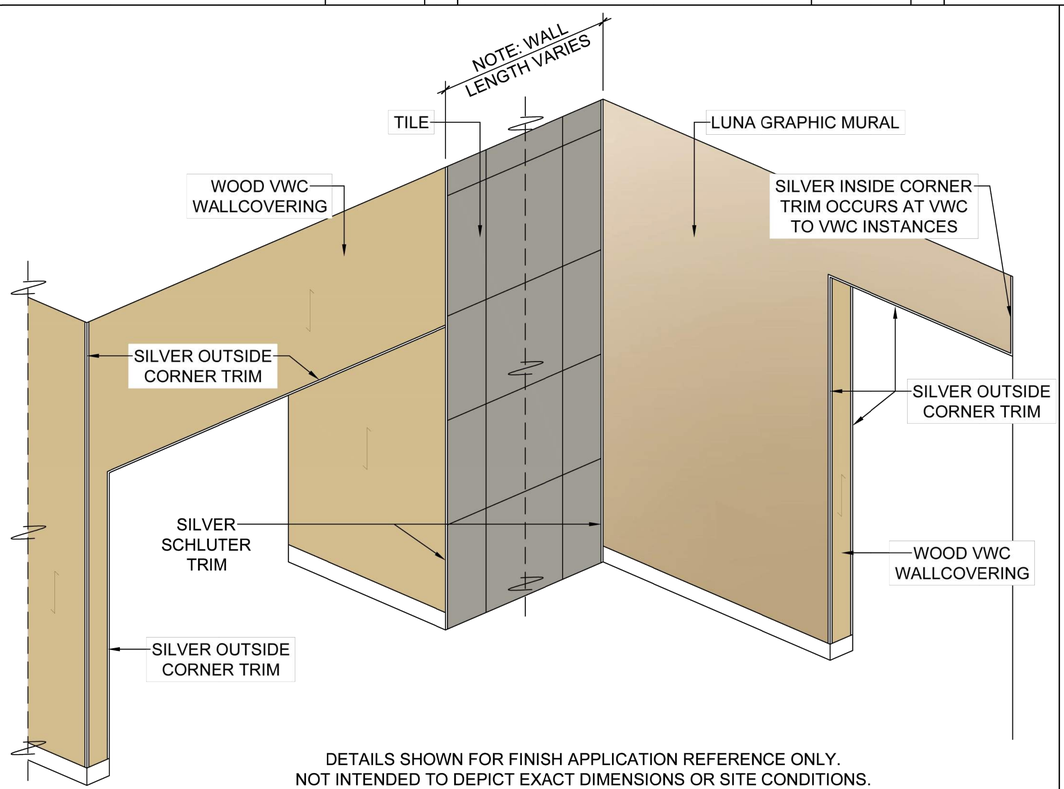
SCHLUTER DETAIL | 3" = 1'-0" | 1



SOLID SURFACE SILL SECTION | 3" = 1'-0" | 2

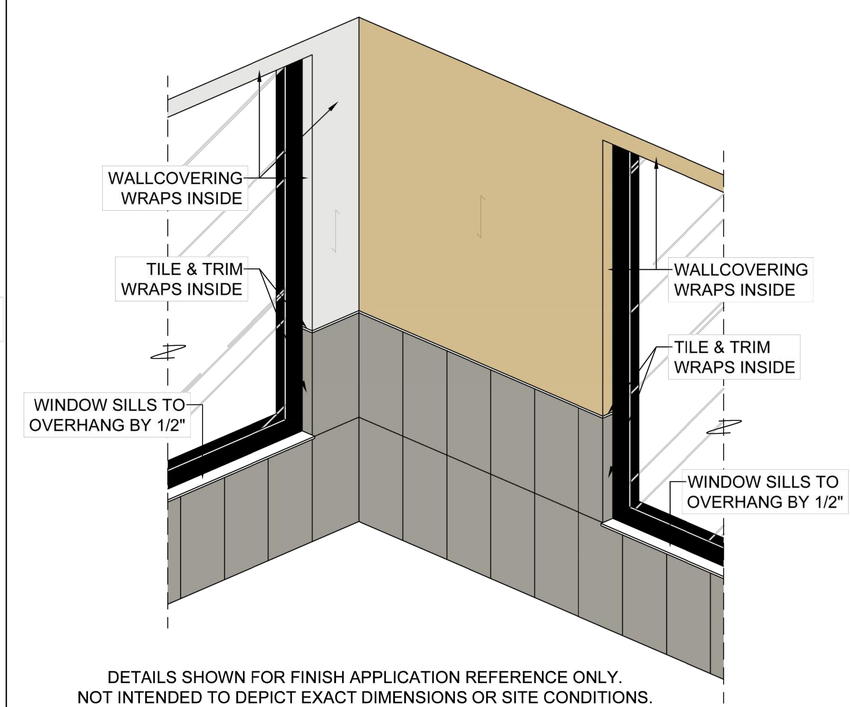


DMNSNL WALL PANEL - SECTION VIEW | 3" = 1'-0" | 3



DETAILS SHOWN FOR FINISH APPLICATION REFERENCE ONLY.
NOT INTENDED TO DEPICT EXACT DIMENSIONS OR SITE CONDITIONS.

WALL FINISH ISOMETRIC - 1 | N/A | 4



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WALL FINISH ISOMETRIC - 2 | N/A | 5

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REVISIONS

LTR	DATE	BY	CHK'D

LUNA OPTIMIZED

SITE ID:	44655
STORE NUMBER:	015-0404

707½ METROPOLITAN AVE
LEAVENWORTH, KANSAS

STANDARD DETAILS

DATE: 05-01-26

SCALE: AS NOTED

DESIGNER: GM | CHK'D:

DRAWING NUMBER | PAGE

B-McD64744 | **6**

LINGLE DESIGN GROUP INC
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CARL LINGLE LICENSED 7997 KANSAS ARCHITECT
04-08-26

STATE ID: 150404
PROJECT #: 26-028
NATIONAL #: 44655
DRAWN BY: CR
CHECKED BY: JK

DATE:
04/08/26 - PERMIT / BID SET

REVISIONS
1 05/07/26 - QC COMMENTS/ADA UPDATE
2 06/22/26 - CITY COMMENTS / DECOR

CLIENT
McDonald's USA, LLC

PROTOTYPE
BB20 4584 WW-HB
ISSUE DATE 02/25

ADDRESS
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SHEET TITLE
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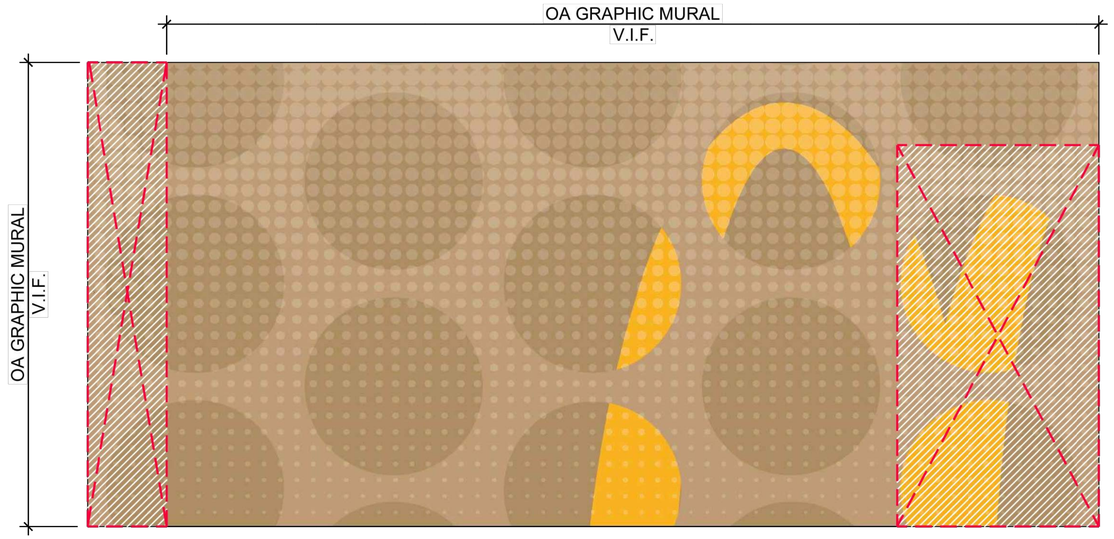

NA-5C-MCD440
ELEVATION 'B'

NOTE: GRAPHIC MURAL SIZES SHOWN FOR REFERENCE PURPOSES ONLY. GC TO INCLUDE WINDOW RETURNS (WHERE APPLICABLE) AND VERIFY ALL SIZES PRIOR TO PURCHASING / INSTALLATION.

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GRAPHIC CROP GUIDE

DATE: 05-01-26

SCALE: 3/8" = 1'-0"

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B-McD64744	**7**

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SHEET NUMBER:
7

ITEMS BY JBI

Quantity	JBI Type Mark	JBI Part Number	PRODUCT NAME	Color / Finish Code(s)	Finishes	Comments	Standard / Custom	Variable Item Dimension
Seating - Chairs & Stools								
6	CH	FACH-213	**Luna Dining Chair, Standard Height**		Seat: Evolve, U72 Galaxy Back: Lamitech, 4131 MT Moonwalk Frame Finish: Grey Texture TCI 9022-73819		Standard	
6		MAGD-134	**Chair Glide - Dining Chair**		Chair Glide for Luna Dining Chair			
2	CHSC	FACH-216	**Calligaris Skin Chair**	P151	Finish: Matt Hemp	Crew Room	Standard	
2		MAGD-021	**Chair Glide - Skin Chair**		Chair Glide for Calligaris Skin Chair	Crew Room	Standard	
8	LS	FACH-234	**Luna Low Square Northern Lights Stool, Standard Height**		Seat: Evolve, U71 Northern Lights Leg Face: Lamitech, 1467 MT Lineal Oak Outside Leg & Frame Edges: 3mm Rehau, CP20844 Natural Recon Inside Leg Edges: Edgebanding, PVC Lamitech 2316 Golden, 2mm x 15/16in Glides: Nylon		Standard	
1	LC	FACH-271	**Crew Room Lounge Chair**	U38	Finish: Evolve U3 Cayenne Base: Black Satin	Crew Room	Standard	
1		MAGD-118	**Chair Glide - Lounge Chair**		Chair Glide for Luna Lounge Chair			
Seating - Banquettes								
2	MB30	FABE-119	**Luna Bench, 30" L**	LM73	Seat & Back: Evolve, U73 Moon Rock Side Panels: Lamitech, 1467 MT Lineal Oak (vertical grain direction) Side Edges: 3mm Rehau, CP20844 Natural Recon Foot & Support: Grey Texture TCI 9022-73819		Standard	
2	MB54	FABE-121	**Luna Bench, 54" L**	LM73	Seat & Back: Evolve, U73 Moon Rock Side Panels: Lamitech, 1467 MT Lineal Oak (vertical grain direction) Side Edges: 3mm Rehau, CP20844 Natural Recon Foot & Support: Grey Texture TCI 9022-73819		Standard	
2	LBS42	FABE-123	**Luna Bench, 42" Single**	U73	Seat & Back: Evolve, U73 Moon Rock Side Panels: Lamitech, 1467 MT Lineal Oak (vertical grain direction) Side Edges: 3mm PVC Rehau Natural Recon CP20844 Foot: Powdercoat, Grey Texture TCI 9022-73819 Wall Finish: Lamitech, 4134 MT Moonwalk Corner Guards Aluminum Corner Bead, Powdercoat RAL 5008 Wall Base: Lamitech, 2255 MT Iron (Compact)		Standard	
2	LBD42	FABE-124	**Luna Bench, 42" Double**	U73	Seat & Back: Evolve, U73 Moon Rock Side Panels: Lamitech, 1467 MT Lineal Oak (vertical grain direction) Side Edges: 3mm PVC Rehau Natural Recon CP20844 Foot: Powdercoat, Grey Texture TCI 9022-73819 Wall Finish: Lamitech, 4134 MT Moonwalk Corner Guards Aluminum Corner Bead, Powdercoat RAL 5008		Standard	
1	LBAS42	FABT-477	**Lincoln Attached Back Banquette Single, 42in**	U76 M27	Back & Seat: Evolve U76 Crystal Skies Frame: Powdercoat, TCI 9022-73819, Textured Grey, Textured Finish	Crew Room	Standard	
Seating - Table Tops								
2	TT2024-LA-A		**Table, 20x24, Eased Corner**		Top: Lamitech, 3174 MT Beton Edge: EIS-HK Custom Dual Color 2mm PVC, Concrete & Wood		Standard	
4	TT2442-LA-A	FATT-B03	**Table, 24x42, Eased Corner**		Top: Lamitech, 3174 MT Beton Edge: EIS-HK Custom Dual Color 2mm PVC, Concrete & Wood		Standard	
1	TT2442-LA-A	FATT-B04	**Table, 24x42, ADA, Eased Corner**		Top: Lamitech, 3174 MT Beton Edge: EIS-HK Custom Dual Color 2mm PVC, Concrete & Wood		Standard	
1	TT2442-LA-B	FATT-550	**Table, 24x42, ADA, Eased Corner**	LM06 EB01	Wilsonart 1573-60 Frosty White Edge: Rehau 309423-014/592E (Doellken Multiplex match)	Crew Room	Standard	

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SHEET TITLE
DECOR PLAN

SHEET NUMBER:
8a

ITEMS BY JBI

Quantity	JBI Type Mark	JBI Part Number	PRODUCT NAME	Color / Finish Code(s)	Finishes	Comments	Standard / Custom	Variable Item Dimension
Seating - Feature Tables & Counters								
1	CT8	FACO-638	**Luna Communal Table, Standard Height, 32" D x 105" L ADA**		Top: Lamitech, 4132 MT HappyMeal Top Edge: 3mm Charter Industries, to match Lamitech 3174 Beton Side Panels: Lamitech, 1467 MT Lineal Oak (vertical grain direction) Side Edges: 3mm Rehau, CP20844 Natural Recon Frame & Foot: Grey Texture TCI 9022-73819		Standard	
Steel Supports								
6		FATB-307	**Standard Table Steel, Bolt Down, 8-1/2in Round Plate, Standard Height**		Powdercoat, Grey Texture TCI 9022-73819 Neoprene Base		Standard	
1		FATB-312	**Standard Table Steel, Bolt Down, 10in Flat Plate, 8-1/2in Round Plate, Standard Height**		Powdercoat, Grey Texture TCI 9022-73819 Neoprene Base	For Communal Table	Standard	
2		FATB-346	**Standard Table Steel, Bolt Down, Offset (ADA), 6-1/2in Round Plate, Standard Height**		Powdercoat, Grey Texture TCI 9022-73819 Neoprene Base		Standard	
2		FATB-291	**Standard Table Steel, Freestanding, Offset (ADA), Standard Height Column**	MT27	Powdercoat, TCI 9022-73819, Textured Grey, Textured Finish	Crew Room	Standard	Column Only
2		FATB-292	**Table Base, Freestanding, 22" x 5.5"**	MT27	Powdercoat, TCI 9022-73819, Textured Grey, Textured Finish	Crew Room	Standard	Base Only
Waste Receptacles								
2	CU1	FAWR-099	**Circularity No-Stream Unit Garbage**		Unit: Lamitech, 2192 MT Graphite K Trayslide and Top: Solid Surface, White Edgebanding: to match Lamitech, Graphite K Base: Powdercoated, RAL 9006 White Aluminum		Standard	
Crew Room - Counters & Cabinets								
1	VCAB	FACA-220	**Tall Crew Room Cabinet 24in x 24in x 94in High**		Finish: Lamitech 1557-PR Season Ash Pore Finish Hardware: Powdercoat, TCI 9611-01333 Stainless Steel	Crew Room Flat Packed	Standard	
Décor - Walls & Partitions								
1	1	FADW-252	**Mesh Partition, 87"W x 8'-10"H**		Frame & Threaded Rods: Grey Texture TCI 9022-73819 Mesh: McNichols Perforated Metal Round, Carbon Steel, Cold Rolled, 16 Gauge (.0598" Thick), 1/8" Round on 3/16" Staggered Centers, 40% Open Area #16183116M1, Powdercoat, Grey Texture TCI 9022-73819 Inner Ring: RAL 1003 Signal Yellow, Semi-gloss Powdercoat Halfwall: Lamitech, 1467 MT Lineal Oak (vertical grain direction) Base: Lamitech, 2255 MT Iron (Compact)		Standard	
4	2	FADS-185	**Mesh Trimmable Shutter, 91"H x 33"W**		Frame & Threaded Rods: Grey Texture TCI 9022-73819 Mesh: McNichols Perforated Metal Round, Carbon Steel, Cold Rolled, 16 Gauge (.0598" Thick), 1/8" Round on 3/16" Staggered Centers, 40% Open Area #16183116M1, Powdercoat, Grey Texture TCI 9022-73819 Inner Ring: RAL 1003 Signal Yellow, Semi-gloss Powdercoat		Standard	82.5" - 91" High

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SITE ID: 44655

STORE NUMBER: 015-0404

707½ METROPOLITAN AVE
LEAVENWORTH, KANSAS

JBI LEGEND

DATE: 05-01-26

SCALE: NTS

DESIGNER: GM | CHK'D:

DRAWING NUMBER | PAGE

B-McD64744 | **8b**

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CARL LINGLE LICENSED 7997 KANSAS ARCHITECT

04-08-26

STATE ID: 150404
PROJECT #: 26-028
NATIONAL #: 44655
DRAWN BY: CR
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CLIENT
McDonald's USA, LLC

PROTOTYPE
BB20 4584 WW-HB
ISSUE DATE 02/25

ADDRESS
707 1/2 METROPOLITAN AVE
LEAVENWORTH, KS 66048

SHEET TITLE
DECOR PLAN

SHEET NUMBER:
8b 2

ITEMS BY JBI

Quantity	JBI Type Mark	JBI Part Number	PRODUCT NAME	Color / Finish Code(s)	Finishes	Comments	Standard / Custom	Variable Item Dimension
Décor - Miscellaneous								
1	3	FAAW-123	**Non-Illuminated Graphic Panels, Set of (3), Fries**		Finish: Printed Acrylic Edge: White		Standard	
1	4a	FAAW-124	**Service Area Mesh Rings 11 1/4"**		Outer Ring: Grey Texture TCI 9022-73819 Inner Ring: RAL 1003 Signal Yellow, Semi-gloss Powdercoat Mesh: McNichols Perforated Metal Round, Carbon Steel, Cold Rolled, 16 Gauge (.0598" Thick), 1/8" Round on 3/16" Staggered Centers, 40% Open Area #16183116M1, Powdercoat, Grey Texture TCI 9022-73819		Standard	
1	4b	FAAW-125	**Service Area Mesh Rings 19 1/4"**		Outer Ring: Grey Texture TCI 9022-73819 Inner Ring: RAL 1003 Signal Yellow, Semi-gloss Powdercoat Mesh: McNichols Perforated Metal Round, Carbon Steel, Cold Rolled, 16 Gauge (.0598" Thick), 1/8" Round on 3/16" Staggered Centers, 40% Open Area #16183116M1, Powdercoat, Grey Texture TCI 9022-73819		Standard	
1	4c	FAAW-126	**Service Area Mesh Rings 26 3/4"**		Outer Ring: Grey Texture TCI 9022-73819 Inner Ring: RAL 1003 Signal Yellow, Semi-gloss Powdercoat Mesh: McNichols Perforated Metal Round, Carbon Steel, Cold Rolled, 16 Gauge (.0598" Thick), 1/8" Round on 3/16" Staggered Centers, 40% Open Area #16183116M1, Powdercoat, Grey Texture TCI 9022-73819		Standard	
Décor - Ceiling Elements								
1	5	FASO-043	**Ceiling Soffit 78" x 108"**		Finish: Lamitech 1467 MT Lineal Oak Reveal: Lamitech Cinder 2110 MT		Standard	
Décor - Crew Room								
1	6a	FAWP-185	**Bulletin Board 36" x 72"**		1/2" MDF 3/8" Raw Cork 1-1/4" x 1/2" Anodized Aluminum Outside Corner		Standard	
1	6b	FAWP-213	**Bulletin Board 36" x 48" (Vertical)**		1/2" MDF 3/8" Raw Cork 1-1/4" x 1/2" Anodized Aluminum Outside Corner		Standard	
Décor - Digital Growth Channel								
1	7	FARO-020	**36" Unassisted Pick-up Infill Kit**		24"H Pod Base Face/End Panels: Solid Surface, Titanium Pod Counter Top: Solid Surface, White Pod Base: 1/2" Lamitech Cinder Compact Laminate Surround: Lamitech 2316TX Golden & 2192 MT Graphite K Laminated Shelving: Lamitech 2192 MT Graphite K Decal Package	Includes Blade Signs: (1) Red FARO-018, (1) Yellow FARO-019	Standard	
1	8	FARO-022	**42" Unassisted Partial Infill Pick-up Kit**		24"H Pod Base Face/End Panels: Solid Surface, Titanium Pod Counter Top: Solid Surface, White Pod Base: 1/2" Lamitech Cinder Compact Laminate End Panel: Lamitech 2316TX Golden Lamitech 2192 MT Graphite K Shelving, Soffit: Lamitech 2192 MT Graphite K Perforated Metal Screen: Powdercoat, Signal Yellow Decal Package	Includes Blade Signs: (1) Red FARO-018, (1) Yellow FARO-019	Standard	

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SHEET TITLE
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8c 2

ITEMS BY GENERAL CONTRACTOR / OWNER

GC Type Mark	Type	Description	Product	Finish & Color	McD Finish Code	Manufacture	Contact Info	McD SKU#	Comments
Ceiling Finishes									
A1	Acoustical Tile	Main Ceiling Tile & Grid	USG Frost Donn DX/DXL	Tile: Frost 450 3/4" 2'x4' SLB Grid: DX/DXL24 15/16" Suspension System Color: Charcoal 534		USG	Contact your Local Distributor for ordering. For urgent requests, Contact: John Funes 312-401-6579 jfunes@usg.com		HVAC, Speaker Covers and Diffusers to be painted to match ceiling tile Production Lead Times: 2-3 weeks, not including transit time.
A2	*Acoustical Tile*	*Service Counter Ceiling Scrubbable/Washable Option for Health Code*	*Premier Hi-Lite ClimaPlus Kapok*	*Tile: 24"x24"x5/8" Grid: DX/DXL 15/16" Square Lay-In Color: White*	*AT04*	*USG*	*Contact your Local Distributor for ordering. For urgent requests, Contact: John Funes 312-401-6579 jfunes@usg.com*		*HVAC, Speaker Covers and Diffusers to be painted to match ceiling tile*
B	Acoustical Tile	Crew Room Ceiling Tile/Grid		Refer to McDonald's USRD Guidelines					
C1	Paint	Ceiling Vents	AC-27	Galveston Grey		Benjamin Moore	http://www.benjaminmoore.com		N/A
C2	*Paint*	*Ceiling Vents Option for Health Code*	*AF-15*	*Steam*	*PT46*	*Benjamin Moore*	*http://www.benjaminmoore.com*		*N/A*
C3	Paint	Restroom Ceiling/Solid Gypsum Board & Plaster Ceiling	OC-17	White Dove		Benjamin Moore	http://www.benjaminmoore.com		N/A
Lighting									
D1	Lighting	General Recessed Downlight	RDA-136LM30-FL-S / RDA-136-H	4" Adjustable Ambient Downlight, 45 degree beam, 1360 lumen		Current Lighting	slorders@currentlighting.com		Lead Time: 2 Weeks
D2	Lighting	Wall Wash Recessed Downlight	RDA-60LM30-NF-S / RDA-60-H	4" Adjustable Accent Downlight, 30 degree beam, 600 lumen		Current Lighting	slorders@currentlighting.com		Lead Time: 2 Weeks
E	Lighting	Lunar Ring Pendant	MPLN-63R-400LM30-DG-CDS	Luna Ring Suspension Pendant, 55watt, 3000K, 90CRI, 4,000 lumens, 0-10V dimming, dark grey		Current Lighting	slorders@currentlighting.com		Lead Time: 2 Weeks
Floor Finishes									
F1	Tile	Main & Restroom Floor Tile	SMMG/.12424UPS	Moonlight Grey 24x24 (stacked)		Crossville	Toni Hale 931-456-3997 thale@crossvilleinc.com		Grout Joint Recommendation 1/8" thick. Lead Time: 10 business days from PO and Payment. Field to be cut into equal pieces to be utilized as base tile (where applicable). Grout Finish Mapei Charcoal 47
	Grout	Grout used with Floor Tile	Ultracolor FA	Charcoal 47	GT02	Mapei	Mapei 800-426-2734		N/A
F2	Trim	Metal Cove Base	DILEX AHK 1S 125 AE	Satin Anodized Aluminum	TR02	Schluter	Earl Maicus 800-267-0817 Ext 3410		At restroom, if required
F3	Tile	Cove Base Tile	Architect	Factory 6"x12"	TL16	ICG Italia	714-224-5802 MCD@icgmail.com		**To be used in Regions where Cove Base Tile is required.** Grout Joint Recommendation 1/8" thick. Lead Time: 10 business days from PO and Payment. Grout Finish Mapei Charcoal 47
F3	*Tile*	*Cove Base Tile Option for Health Code at Restrooms*	*MA.DE*	*Uni Grigio 6"x12"*		*ICG Italia*	*714-224-5802 MCD@icgmail.com*		***To be used in Regions where health code requires Restroom Cove Base Tile and Light Wall Tile.*** *Grout Joint Recommendation 1/8" thick. Lead Time: 10 business days from PO and Payment.Grout Finish Mapei Ultracolor Plus FA Frost 77*

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CARL LINGLE LICENSED 7997 KANSAS ARCHITECT

04-08-26

STATE ID: 150404
PROJECT #: 26-028
NATIONAL #: 44655
DRAWN BY: CR
CHECKED BY: JK

DATE:
04/08/26 - PERMIT / BID SET

REVISIONS
1 05/07/26 - QC COMMENTS/ADA UPDATE
2 06/22/26 - CITY COMMENTS / DECOR

CLIENT
McDonald's USA, LLC

PROTOTYPE
BB20 4584 WW-HB
ISSUE DATE 02/25

ADDRESS
707 1/2 METROPOLITAN AVE
LEAVENWORTH, KS 66048

SHEET TITLE
DECOR PLAN

SHEET NUMBER:
9a 2

ITEMS BY GENERAL CONTRACTOR / OWNER

GC Type Mark	Type	Description	Product	Finish & Color	McD Finish Code	Manufacture	Contact Info	McD SKU#	Comments
Wall Finishes									
G1	Wallcovering	Dining Room Wallcovering	NA-5C-MC300	Stone Texture - Cream		DL Couch / Momentum Textiles & Wallcovering	Mollie Burdette 773-426-8241 MBurdette@momtex.com		Minimum 3-week lead-time for material. Product is microvented, GC to use proper adhesive. GC to order and install corner guards on all exposed corners, see trim specification for details.
G2	Wallcovering	Dining Room Wallcovering	NA-5C-MC301	Stone Texture - Green		DL Couch / Momentum Textiles & Wallcovering	Mollie Burdette 773-426-8241 MBurdette@momtex.com		Minimum 3-week lead-time for material. Product is microvented, GC to use proper adhesive. GC to order and install corner guards on all exposed corners, see trim specification for details.
G3	Wall Graphics	Dining Room Wall Mural	NA-5C-MCD440	Circle Wallcovering		DL Couch / Momentum Textiles & Wallcovering	Mollie Burdette 773-426-8241 MBurdette@momtex.com		Minimum 6-week lead-time for material. Product is microvented, GC to use proper adhesive. GC to order and install corner guards on all exposed corners, see trim specification for details.
G4	Wallcovering	Dining Room & Crew Room Wallcovering	NA-5C-MC439	Woodgrain for Luna		DL Couch / Momentum Textiles & Wallcovering	Mollie Burdette 773-426-8241 MBurdette@momtex.com		Minimum 3-week lead-time for material. Product is microvented, GC to use proper adhesive. GC to order and install corner guards on all exposed corners, see trim specification for details.
H	Wall Graphics	Crew Room Wall Graphic	DP-5844-VIS703 CR	Crew Room Mural Panels		DL Couch / Momentum Textiles & Wallcovering	Mollie Burdette 773-426-8241 MBurdette@momtex.com		Minimum 3-week lead-time for material. Product is microvented, GC to use proper adhesive. GC to order and install corner guards on all exposed corners, see trim specification for details.
J	Solid Surface	Window Sills	Corian	Deep Nocturne		Dupont	Ida Sisic 404-502-8354 ida.sisic@dupont.com		Lead Time: 4 Weeks If / As applicable: to match black colored mullions
J	Solid Surface	Window Sills	Corian	Deep Cloud		Dupont	Ida Sisic 404-502-8354 ida.sisic@dupont.com		Lead Time: 4 Weeks If / As applicable: to match aluminum colored mullions
K	Tile	Wainscot	SMMG/.12424UPS	Moonlight Grey 12"x24" (Vertical Install)		Crossville	Toni Hale 931-456-3997 thale@crossvilleinc.com		Grout joint recommendation: 1/16" thick, Lead Time: 10 business days from PO and Payment. Grout Finish Mapei Charcoal 47
L1	Trim	Service Area Corner Tile Guard	QUADEC	Satin Anodized Aluminum (AE)		Schluter	Earl Maicus 800-267-0817 Ext 3410		To be coordinated with GC Item M
L2	Trim	Wainscot Trim	QUADEC	Satin Anodized Aluminum (AE)		Schluter	Earl Maicus 800-267-0817 Ext 3410		As required for walls with tile wainscot with wallcovering above.
L3	Trim	Restroom & Crew Room Trim	RONDEC-AE	Satin Anodized Aluminum (AE)		Schluter	Earl Maicus 800-267-0817 Ext 3410		To be coordinated with GC Items N1
L4	Trim	Wallcovering Corner Guards	1/2"x1/2"	Satin Anodized Aluminum			Local Distributor		N/A
M	Tile	Service Counter Area	SMAS/.10412S	Afternoon Spray 4"x12"		Crossville	Toni Hale 931-456-3997 thale@crossvilleinc.com		**To be used in Regions where health code requires White tile**, Grout Joint Recommendation 1/8" thick. Lead time: 10 business days from PO and Payment. Grout Finish Mapei Pewter 02
N1	Tile	Restrooms Walls & Crew Room Wainscot Tile	Architect	Factory 12"x24"	TL16	ICG Italia	714-224-5802 MCD@icgmail.com		Grout Joint Recommendation: 1/16" Maximum. Lead Time: 10 business days from PO and Payment. Grout Finish Mapei Ultracolor Plus FA Charcoal 47
N1	*Tile*	*Restroom Walls & Crew Room Wainscot Option for Health Code*	*MA.DE*	*Uni Grigio 12"x24"*		*ICG Italia*	*714-224-5802* *MCD@icgmail.com*		***To be used in Regions where health code requires White tile.*** *Grout Joint Recommendation 1/16" maximum. Lead Time: 10 business days from PO and Payment. Grout Finish: Mapei Frost 77*
N2	Tile	Accent Restroom Walls	754-878	Shelter Bianco Matte 4"x12"		ICG Italia	714-224-5802 MCD@icgmail.com		Grout Joint Recommendation: 1/16" Maximum. Lead Time: 10 business days from PO and Payment. Grout Finish Mapei Ultracolor Plus FA Charcoal 47
	Grout	Grout used with Service Counter Tile Walls		Pewter 02		Mapei	Mapei 800-426-2734		N/A
	Grout	Grout to be used with All Restroom Walls & Crew Room Tile	Ultracolor FA	Charcoal 47	GT02	Mapei	Mapei 800-426-2734		N/A
	Grout	*Grout used with Restroom Walls & Crew Room Wainscot Tile Option for Health Code*	*Ultracolor Plus FA*	*Frost 77*		*Mapei*	*Mapei 800-426-2734*		*N/A*

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2650 El Presidio Street
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F 1 310 604 3827
www.jbi-interiors.com

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LTR	DATE	BY	CHK'D

LUNA OPTIMIZED

SITE ID: 44655

STORE NUMBER: 015-0404

707½ METROPOLITAN AVE
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GC LEGEND

DATE: 05-01-26

SCALE: NTS

DESIGNER: GM | CHK'D:

DRAWING NUMBER: **B-McD64744** | PAGE: **9b**

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Type Mark	Type	Description	Product	Finish & Color	McD Finish Code	Manufacture	Contact Info	McD SKU#	Comments
Wall Finishes									
P1	Paint	Interior Restroom Door Jambs and All Stall Door Jambs and Frames	2121-10	Gray		Benjamin Moore	http://www.benjaminmoore.com		N/A
P1	*Paint*	*Interior Restroom Door Jambs and All Stall Door Jambs and Frames. Option for Health Code*	*AC-26*	*Ozark Shadows*		*Benjamin Moore*	*http://www.benjaminmoore.com*		*N/A*
P2	Paint	Exterior Restroom, Kitchen and Mop Closets Door Frames	2121-10	Gray		Benjamin Moore	http://www.benjaminmoore.com		N/A
Q1	Laminate	All Restroom Stall Doors and Interior Side of Restroom Door	W-464-LE	Blonde Modern Cherry (Vertical Grain)		Arborite	Genebry Kumiga 773-997-0481 genebry.kumiga@arborite.com		Lead Time: 6-8 Weeks
Q2	Laminate	Exterior Restroom Doors, Kitchen and Mop Closet Doors	1467 MT	Lineal Oak		Lamitech	Global Wood Distributors 718-439-9699 Anthony Pecorella anthonyp.gwd@gmail.com Joe McMahon joem@globalwoodny.com		Lead Time: 6-8 Weeks
R	Laminate	Wall Paneling, Trims & Installation		Refer to S&D Wall Paneling Slip Sheet		JBI	McDOrders@JBI-Interiors.com		G.C. to order and install all wall paneling and trims provided by seating and Décor Company. Adhesive is supplied by the G.C.
Miscellaneous Finishes									
S		SAO Service Pod, ROA & ESE Components		Refer to McDonald's USRD Guidelines		JBI	McDOrders@JBI-Interiors.com		ACM to coordinate order of front counter and SAO components through Central Purchasing. Installed by GC.
T		Half Wall / Top Cap *IF / AS APPLICABLE*		Refer to McDonald's USRD Guidelines			By G.C.		To be built by G.C. Refer to SAO architectural details.
U		McDelivery Decals *IF / AS APPLICABLE*		Refer to McDonald's SAO Guidelines Soffit Pick Up Decal Kit (MCD-SAO-PICKUP-KIT) 30" x 112" Wall McDevliery Decal Kit (MCD-SAO-MCDLVY-KIT) 36" x 25"		Vomela	Ann Bowen 865-330-7337 ann.bowen@vomela.com		If Applicable Lead Time: 4 Weeks
V	Solid Surface	Restroom Sink/ Hand Dryer Panel	Corian	Cameo White		Dupont	Ida Sisic 404-502-8354 ida.sisic@dupont.com		Lead Time: 4 Weeks
W		Flat Panel TV *IF / AS APPLICABLE*	T.B.D.	To Be Determined by Owner Operator					N/A
X	Receptacle Wall Plates	Electrical Outlets *IF / AS APPLICABLE*	T.B.D.	Stainless Steel On Colored wall and White on white walls.					N/A
Y		Electrical Stub Out *IF / AS APPLICABLE*	T.B.D.	Floor electrical stub-out			By G.C.		See plans for location.
Z	Signage	In-Restaurant Signage Restrooms & Wayfinding		Refer to USRD Signage Guidelines			S2K by FRANKE 800-423-5247 www.frankesupply.com		
AA	Solid Surface	Late Night Window Surround	Corian	Deep Titanium		Dupont	Ida Sisic 404-502-8354 ida.sisic@dupont.com		Lead Time: 4 Weeks

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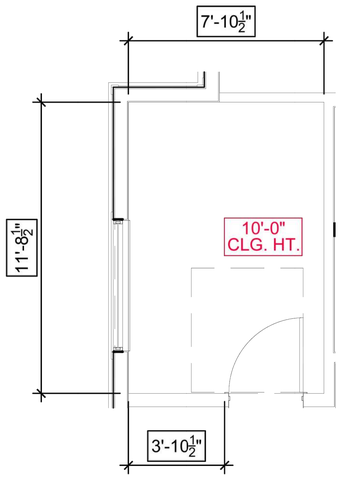
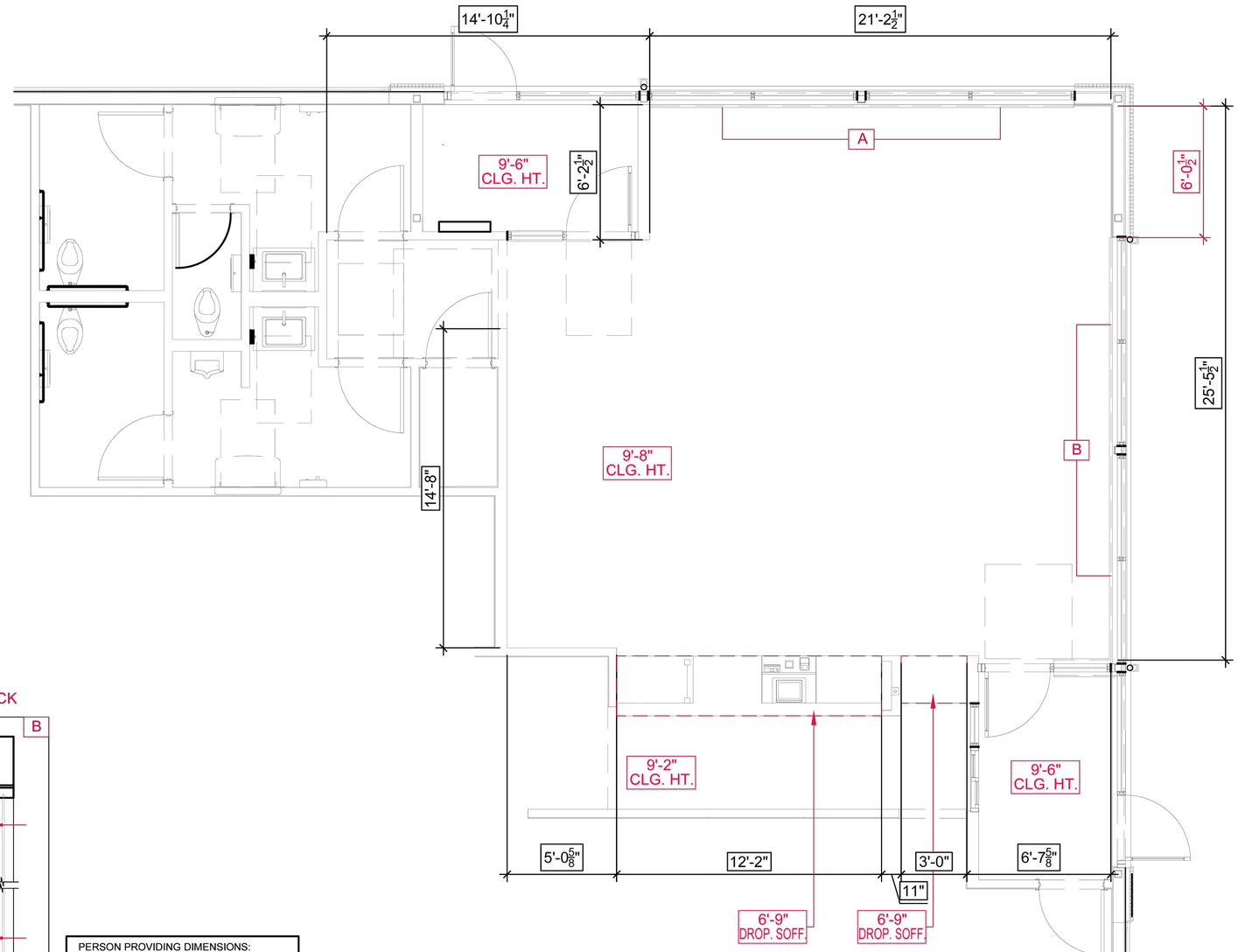
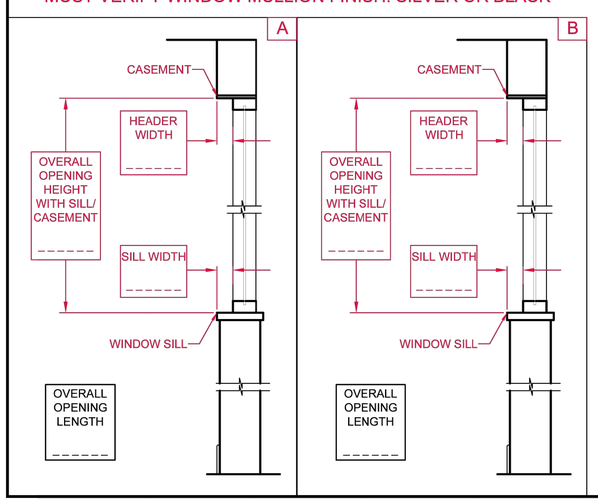




MUST VERIFY WINDOW MULLION FINISH: SILVER OR BLACK



PERSON PROVIDING DIMENSIONS:

NAME: _____

PHONE #: _____

DATE: _____

FAX REPLY TO:
PROJECT COORDINATOR
JBI FAX NUMBER (310) 886-9924
PHONE: (800) 228-1250

ALL BOXED DIMENSIONS ARE TO BE FIELD VERIFIED

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