Order Plans @ WWW.DILine.com

PLUMBING GAS LOAD SCHEDULE

Total Equivalent Length of Pipe(Feet):	425	Pressure Drop (PSI):	1	Delivery Pressure After Meter & PRV (PSI):	2	Gas Type	NATURAL GAS

MARK	HVACTYPE	DESCRIPTION	STATUS	GAS HTG IN (CFH)	MIN GAS PRESSURE (IN WC)	MAX GAS PRESSURE (IN WC)
B109Dg	22 00 00 00 00	Oven		330	5	14
B109GS	22 00 00 00 00	Oven		330	5	14
CN1	22 00 00 00 00	GENERATOR		1260	10	14
DD27G	22 00 00 00 00	Pizza Oven		120	4	5
DOAS-1	23 74 33 00 00	PACKAGED OUTDOOR ROOFTOP UNIT		540	8	10.5
DOAS-2	23 74 33 00 00	PACKAGED OUTDOOR ROOFTOP UNIT		540	8	10.5
RTU-1	23 74 33 00 00	PACKAGED OUTDOOR ROOFTOP UNIT		195	8	10.5
RTU-2	23 74 33 00 00	PACKAGED OUTDOOR ROOFTOP UNIT		195	8	10.5
RTU-3	23 74 33 00 00	PACKAGED OUTDOOR ROOFTOP UNIT		195	8	10.5
RTU-4	23 74 33 00 00	PACKAGED OUTDOOR ROOFTOP UNIT		195	8	10.5
RTU-5	23 74 33 00 00	PACKAGED OUTDOOR ROOFTOP UNIT		195	8	10.5
RTU-6	23 74 33 00 00	PACKAGED OUTDOOR ROOFTOP UNIT		240	8	10.5
RTU-7	23 74 33 00 00	PACKAGED OUTDOOR ROOFTOP UNIT		240	8	10.5
RTU-8	23 74 33 00 00	PACKAGED OUTDOOR ROOFTOP UNIT		240	8	10.5
RTU-9	23 74 33 00 00	PACKAGED OUTDOOR ROOFTOP UNIT		240	8	10.5
RTU-10	23 74 33 00 00	PACKAGED OUTDOOR ROOFTOP UNIT		195	8	10.5
RTU-11	23 74 33 00 00	PACKAGED OUTDOOR ROOFTOP UNIT		195	8	10.5
RTU-12	23 74 33 00 00	PACKAGED OUTDOOR ROOFTOP UNIT		60	8	10.5
RTU-13	23 74 33 00 00	PACKAGED OUTDOOR ROOFTOP UNIT		90	8	10.5
RTU-14	23 74 33 00 00	PACKAGED OUTDOOR ROOFTOP UNIT		240	8	10.5
RTU-15	23 74 33 00 00	PACKAGED OUTDOOR ROOFTOP UNIT		240	8	10.5
RTU-16	23 74 33 00 00	PACKAGED OUTDOOR ROOFTOP UNIT		60	8	10.5
RTU-17	23 74 33 00 00	PACKAGED OUTDOOR ROOFTOP UNIT		195	8	10.5
RTU-18	23 74 33 00 00	PACKAGED OUTDOOR ROOFTOP UNIT		195	8	10.5
RTU-19	23 74 33 00 00	PACKAGED OUTDOOR ROOFTOP UNIT		195	8	10.5
RTU-20	23 74 33 00 00	PACKAGED OUTDOOR ROOFTOP UNIT		90	8	10.5
WH-1	23 54 00 00 00	DOMESTIC GAS-FIRED TANK-TYPE WATER HEATER	BLUE	199	3.5	14
		TOTAL GAS LOAD		6649		

PLUMBING WATER HEATER SCHEDULE

MARK	DESCRIPTION	LOCATION	MANUFACTURER	MODEL	EFFICIENCY	EWT (DEG F)	LWT (DEG F)	GAS HTG IN (MBH)	STORAGE (GAL)	FUEL	MIN GAS PRESSURE (IN WC)	MAX GAS PRESSURE (IN WC)	HTG KW (KW)	VOLTS	PHASE	WEIGHT	EMERGENCY	FLA	MCA	OCP	ACCESS
RCTa	RECLAIM TANK		THERMA-STOR	N-1	0	0	0	0	119					0	0						
RCTb	RECLAIM TANK		THERMA-STOR	N-1	0	0	0	0	119					0	0						
WH1	DOMESTIC GAS-FIRED TANK-TYPE WATER-HEATER		LOCHINVAR	CGN2002880	0	0	0	199	92	NATURAL GAS	3.5	14		0	0						

PLUMBING PUMP SCHEDULE

MARK	DESCRIPTION	LOCATION	STATUS	MANUFACTURER	MODEL	VOLTS	PHASE	EMERGENCY	WEIGHT (lb s)	FLOW (gpm)	HEAD (ft)	BHP (hp)	HP (hp)	WATTS (Watts)	RPM	FLA (amps)	OCP (amps)	ACCESSORIES
CP1	HOT WATER RECIRCULATING PUMP			B&G	[illegible]					0	0		1/12		1725	1.75		
CSP1	SEWAGE EJECTOR PUMP			ZOELLER	127					0	0		1/2		0			
ESP1	SEWAGE EJECTOR PUMP			ZOELLER	SEE SPEC 224229	115				0	0		1/3		0			SEE SPEC 221429

PLUMBING CONTROL COORDINATION SCHEDULE

ABBREVIATIONS			
DC	LOW VOLTAGE DISCONNECT		
MC	MOTOR STARTER CONTROL (POWER)		
SD	DUCT SMOKE DETECTOR		
CN	CONTROL INTERFACE		
CB	CIRCUIT BREAKER		
CB	H.A.C.R. CIRCUIT BREAKER AT SOURCE PANELBOARD		
FUSE	FUSES AT LOCAL DISCONNECT (VERIFY FIELD RATING)		
FLA	OPERATING FULL LOAD AMPS		
MCA	MINIMUM CIRCUIT AMPACITY		
OP	CORD AND PLUG CONNECTION		

CONTRACTOR TYPE			
EC	ELECTRICAL CONTRACTOR		
EX	EXISTING		
FC	FIRE PROTECTION CONTRACTOR		
GC	GENERAL CONTRACTOR		
KC	KITCHEN CONTRACTOR		
MFR	MANUFACTURER		
PC	PLUMBING CONTRACTOR		
OR	OWNER OR OTHERS		

MOTOR CONTROL TYPE			
CS	COMBINATION STARTER		
MCC	MOTOR CONTROL STARTER		
MS	MAGNETIC STARTER OR CONTACT		
MS	MANUAL STARTER		
VFD	VARIABLE FREQUENCY DRIVE		
MCR	MANUAL STARTER W/ CONTROL RELAY		
OV	OVERCURRENT PROTECTION		

CONTROL TYPE			
TC	TIMECLOCK		
CPT	CONTROL POWER TRANSFORMER		
BAS	BUILDING AUTOMATION SYSTEM		
LOW	LOW VOLTAGE CONTROLS		
LINE	LINE VOLTAGE CONTROLS		
RLINE	REVERSE ACTING LINE VOLTAGE THERMOSTAT		
MAN	MANUAL		
FA	FIRE ALARM		
CO	CARBON MONOXIDE SENSOR		
INT	INTEGRAL TO EQUIPMENT		

EQUIPMENT MARK	DESCRIPTION	VOLTS (V)	PHASE	EMERGENCY	BHP (HP)	HP (HP)	HTG KW (kW)	WATTS (W)	FLA (A)	MCA (A)	OCP (A)	DC TYPE	DC FURN	DC INST	DC WIRE	MC TYPE	MC FURN	MC INST	MC WIRE	CN TYPE	CN FURN	CN INST	CN WIRE
CP1	HOT WATER RECIRCULATING PUMP	120	1			1/12			1.75				EC	EC	EC	MG	MFR	MFR	MFR	LINE	PC	PC	PC
CSP1	SEWAGE EJECTOR PUMP	480	3			1/2							EC	EC	EC	MG	MFR	MFR	MFR	LINE	PC	PC	PC
ESP1	SEWAGE EJECTOR PUMP	115	1			1/2							EC	EC	EC	MG	MFR	MFR	MFR	LINE	PC	PC	PC

DRAIN SCHEDULE

FLOOR DRAIN TYPE	APPLICATION	REMARK
FD1	FLOOR DRAIN	REFER TO DETAIL PSD-3
FD2	FLOOR DRAIN	REFER TO DETAIL PSD-2
FD4	FLOOR SINK	REFER TO DETAIL PSD-16B
FD5	FLOOR SINK	REFER TO STARBUCKS PLANS
FD6	FLOOR DRAIN	REFER TO DETAIL PSD-16
TD1	TRENCH DRAIN	REFER TO DETAIL PSD-34

KROGER PLUMBING FIXTURE CONNECTION SCHEDULE

#	DESCRIPTION	HW	CW	REMARKS	PROVIDED BY	INSTALLED BY
B109G	GAS DECK OVEN RACK OVEN	N.A.	3/4"	PROVIDE 1/2" VALVED & FILTERED COLD WATER LINE W/PRESSURE REGULATOR SET AT 45 P.S.I. MOUNTED AT 6'-0" AB. FL.; 1 1/4" VALVED GAS LINE (300,000 BTU) @ 0" AB. FL.; 4" FLOOR SINK FOR STEAM CONDENSATE	OWNER	P.C.
B109S	DOUBLE DECK (60" DEEP) PROOFER (4-5 SINGLE PEELS)		1/2"	STUB WATER 60" A.F.F. PROVIDE A SHUT-OFF VALVE AND SUPPLY FROM WATER FILTER, 4" DRAIN	OWNER	P.C.
	COLD WATER HOSE BIBB	N.A.	3/4"	MOUNT 2'-0" A.F.F., SEE SPECS, PROVIDE A #1012 BACKFLOW PREVENTER. COORDINATE H.B. INSTALLATION WITH EQUIPMENT AND FIXTURES	P.C.	P.C.
D15CD-480	DOUBLE CAPON CHICKEN OVEN (480V)	N.A.	3/4"	PROVIDE 3/4" VALVED & FILTERED C.W. LINE AND ONE 3/4" VALVED UNTREATED C.W. LINE. (30-90PSI) PER OVEN, 4" HUB DRAIN TIED TO GREASE LADEN LINE.	OWNER	P.C.
S15CS-480	S[illegible] CHICKEN OVEN W/ STAND (480V)	N.A.	3/4"	PROVIDE 3/4" VALVED & FILTERED C.W. LINE AND ONE 3/4" VALVED UNTREATED C.W. LINE. (30-90PSI), 4" HUB DRAIN TIED TO GREASE LADEN LINE.	OWNER	P.C.
[illegible]	UTENSIL WASHER (480V)		3/4"	STUB WATER 9' - 2" A.F.F. AND PROVIDE A PRESSURE REGULATOR SET AT 25 PSI & WATER HAMMER ARRESTOR. 4" HUB DRAIN WITH 20' OF CAST IRON PIPING TO DISSIPATE HEAT. PROVIDE BFP.	OWNER	P.C.
DX7SS	PIZZA OVEN	N.A.	N.A.	PROVIDE A 3/4" VALVED NATURAL GAS LINE. EACH OVEN REQUIRES SEPARATE GAS CONNECTION (80,000 BTU'S EACH)	OWNER	P.C.
ETV	EMERGENCY TEMPERING VALVE WITH COLD WATER BYPASS	1/2"	1/2"	REFER TO PLUMBING SPEC SECTION 221100 FACILITY WATER DISTRIBUTION FOR MORE INFORMATION	P.C.	P.C.
F9	FLORAL HELIUM BALLOON SYSTEM	N.A.	N.A.	PROVIDE 1/2" COPPER PIPING FROM HELIUM TANK TO HELIUM BALLOON NOZZLE, EQUAL TO WESTERN MODEL 312-RPB-62HGV-3	OWNER	P.C.
GCR7	RETRACTABLE HOSE REEL (100')	N.A.	N.A.	REQUIRES COLD WATER HOSE BIBB	OWNER	P.C.
GE235-2C	2 LEVER SPRAY DOWN PROPORTIONER (VENDOR SUPPLY)	1/2"	N.A.	REQUIRES COLD WATER HOSE BIBB, HOUSE INSIDE OF S/S CABINET, REFER TO DETAIL PSD-57. SEE VENDOR DETAIL	OWNER	P.C.
GE235-3	3 LEVER SPRAY DOWN PROPORTIONER (VENDOR SUPPLY)	3/4"	N.A.	PROPORTIONER REQUIRES A SEPARATE HOT WATER HOSE BIBB WITHIN 5' - 0" OF UNIT	OWNER	P.C.
GE235-2C	2 BUTTON PROPORTIONER FOR 3-COMP SINK (VENDOR SUPPLY)	N.A.	N.A.	REQUIRES A 3/8" NPT TEE INSTALLED BETWEEN FAUCET AND PRE-RINSE SPRAYER (TEE INCREASES MOUNTING HEIGHT OF SPRAYER 3")	OWNER	P.C.
GE235-2M	2 BUTTON PROPORTIONER FOR MOP SINK (VENDOR SUPPLY)	N.A.	3/4"	PROPORTIONER REQUIRES A SEPARATE COLD WATER HOSE BIBB WITHIN 5' - 0" OF UNIT	OWNER	P.C.
HHB1	HOT WATER HOSE BIBB	3/4"	N.A.	MOUNT 2'-0" A.F.F., SEE SPECS, PROVIDE A #1012 BACKFLOW PREVENTER. COORDINATE H.B. INSTALLATION WITH EQUIPMENT AND FIXTURES. SUPPLY WITH LOOSE TEE KEY OPTION.	P.C.	P.C.
HHB2	HOT WATER HOSE BIBB	3/4"	N.A.	MOUNT ABOVE CASE, SEE SPECS, PROVIDE A #1012 BACKFLOW PREVENTER. COORD. EXACT LOCATION WITH EQUIPMENT AND FIXTURES PRIOR TO INSTALLATION. SUPPLY WITH LOOSE TEE KEY OPTION.	P.C.	P.C.
P43S	REVERSE OSMOSIS UNIT FOR PRODUCE MISTING	N.A.	1/2"	PROVIDE VALVED 1/2" CW W/ PRESSURE REGULATOR SET AT 30 PSI TO REVERSE OSMOSIS UNIT FOR PRODUCE MISTING AS REQUIRED. PROVIDE BACKFLOW PREVENTER EQUAL TO WATTS #9D. SYSTEM PROVIDED BY KROGER. INSTALLATION BY GENERAL CONTRACTOR	OWNER	P.C.
P54	PRODUCE MISTING CONTROL/TIMER	N.A.	1/2"	PROVIDE VALVED 1/2"PSI TO PRODUCE HUMIDITY CONTROLS AS REQUIRED AT 84°A/F. PROVIDE BACKFLOW PREVENTER EQUAL TO WATTS #9D. MISTER CONTROLS & SYSTEM PROVIDED BY KROGER. INSTALLATION BY GENERAL CONTRACTOR	OWNER	P.C.
PL19R	COUNTERTOP SINK (ACCESSIBLE BREAKROOM) (UNIVERSAL STAINLESS MODEL DI-1-5-CF)	1/2"	1/2"	PROVIDE VALVED WATER LINES AND DRAIN	P.C.	P.C.
PL1F	FLORAL SINK (DROP IN)	1/2"	1/2"	PROVIDE VALVED WATER LINES AND DRAIN	OWNER	P.C.
PL1L-24	1 COMP PREP SINK WITH 24" LHDB	3/4"	3/4"	PROVIDE VALVED WATER LINES AND DRAIN.	OWNER	P.C.
PL1M	MOP SINK	1/2"	1/2"	PROVIDE WATER LINES AND DRAIN. REFER TO DETAIL PSD-22. PROVIDE CHECK VALVES ON WATER SUPPLIES.	P.C.	P.C.
PL1PC	1 COMP PREP SINK (24" BOWL) (NO DRAINBOARD)	1/2"	1/2"	PROVIDE VALVED WATER LINES AND DRAIN.	OWNER	P.C.
PL1PC-18	1 COMPARTMENT PREP SINK (18" BOWL) (NO DRAINBOARD)	1/2"	1/2"	PROVIDE VALVED WATER LINES AND DRAIN	OWNER	P.C.
PL1RX	PHARMCY SINK (DROP IN)	1/2"	1/2"	PROVIDE VALVED WATER LINES AND DRAIN	OWNER	P.C.
PL1SFND	SEAFOOD PREP SINK DISPOSAL/LHDB	3/4"	3/4"	PROVIDE VALVED WATER LINE AND DRAIN. REFER TO DETAIL PSD-5S	OWNER	P.C.
PL3-20	3 COMPARTMENT SINK (20"DB)	3/4"	3/4"	PROVIDE VALVED WATER LINES AND DRAIN. REFER TO DETAIL PSD-7. PROVIDE CHECK VALVES ON WATER SUPPLIES.	OWNER	P.C.
PL3C-18	SMALL 3 COMPARTMENT SINK (18"DB)	3/4"	3/4"	PROVIDE VALVED WATER LINES AND DRAIN. REFER TO DETAIL PSD-7. PROVIDE CHECK VALVES ON WATER SUPPLIES.	OWNER	P.C.
PL20	EYE WASH STATION	1/2"	1/2"	PROVIDE VALVED WATER LINES, ETV AND DRAIN. REFER TO DETAIL PSD-23.	P.C.	P.C.
PL24	WALL MOUNTED DRINKING FOUNTAIN (ADA)	N.A.	1/2"	PROVIDE VALVED WATER LINE AND DRAIN.	OWNER	P.C.
PL24-2	BI-LEVEL WALL MOUNTED DRINKING FOUNTAIN	N.A.	1/2"	PROVIDE VALVED WATER LINE AND DRAIN.	P.C.	P.C.
PL24HB-2	BI-LEVEL WALL MOUNTED DRINKING FOUNTAIN WITH BOTTLE FILLER	N.A.	1/2"	PROVIDE VALVED WATER LINE AND DRAIN.	P.C.	P.C.
PLBPWF	BAKERY & PRODUCE WATER FILTER SYSTEM	N.A.	3/4"	PROVIDE NAPT VALVED COLD WATER LINE AND WATTS #LF7 CHECK VALVE.	OWNER	P.C.
PLC-18	COUNTER TOP SINK	1/2"	1/2"	PROVIDE VALVED WATER LINES AND DRAIN	P.C.	P.C.
PLC-2(I)	COUNTER TOP SINK	1/2"	1/2"	PROVIDE VALVED WATER LINES AND DRAIN	P.C.	P.C.
PLDWF1	DELI SINGLE COMBI OVEN WATER FILTER SYSTEM	N.A.	3/4"	PROVIDE NAPT VALVED COLD WATER LINE AND WATTS #LF7 CHECK VALVE.	OWNER	P.C.
PLDWF2	DELI DOUBLE COMBI OVEN WATER FILTER SYSTEM	N.A.	3/4"	PROVIDE NAPT VALVED COLD WATER LINE AND WATTS #LF7 CHECK VALVE.	OWNER	P.C.
PLHSW	HAND SINK (WALL MOUNT)	1/2"	1/2"	PROVIDE VALVED WATER LINES AND DRAIN. PROVIDE BACKFLOW PREVENTER	OWNER	P.C.
PLHSWE	COMB. HAND SINK & EYE WASH (WALL MOUNT)	1/2"	1/2"	PROVIDE VALVED WATER LINES & DRAIN. PROVIDE BACKFLOW PREVENTER & ETV	OWNER	P.C.
PLPROWS	PRODUCE REVERSE OSMOSIS WATER SYSTEM	N.A.	1/2"	PROVIDE NPT VALVED COLD WATER LINE	OWNER	P.C.
PLSFWF	SEAFOOD FILTER SYSTEM	N.A.	3/4"	PROVIDE MNPT VLAVED COLD WATER LINE	OWNER	P.C.
PLTLF	FLOOR SET FLUSH VALVE WATER CLOSET	N.A.	1"	PROVIDE VALVE WATER LINES AND DRAIN	P.C.	P.C.
PLTLFH	FLOOR SET FLUSH VALVE WATER CLOSET (ACCESSIBLE)	N.A.	1"	PROVIDE VALVE WATER LINES AND DRAIN	P.C.	P.C.
PLUR	URINAL (ACCESSIBLE)	N.A.	3/4"	PROVIDE VALVE WATER LINES AND DRAIN	P.C.	P.C.
R97	RECONSTITUTION WATER DISPENSER	N/A	1/2"	CONNECTION TO WATER LINE AT SINK IS REQUIRED	P.C.	P.C.
S7	MINI-COMBINATION OVEN/STEAMER (NUVU)	N.A.	1/4"	STUB VALVED WATER LINE 3' - 6" A.F.F. FEED FROM WATER FILTER	OWNER	P.C.
SDSTSC-8	SELF-CONTAINED ICE FLAKER (1000 LB.)	N.A.	1/2"	PROVIDE A 3/8" (20-120PSIG) VALVED & FILTERED COLD WATER LINE AND 2" HUB DRAIN.	OWNER	P.C.
SD24SG2	2 DOOR SEAFOOD STORAGE FREEZER (REMOTE)	N.A.	N.A.	2" HUB DRAIN	OWNER	P.C.
TET1	THERMAL EXPANSION TANK	N.A.	N.A.	PROVIDE EXPANSION TANK. REFER TO SPECIFICATION SECTION 221100 FACILITY WATER DISTRIBUTION. NO CHECK VALVE OR OTHER CONTROL VALVE SHALL BE INSTALLED BETWEEN THE WATER HEATER TANK AND THE THERMAL EXPANSION TANK	P.C.	P.C.
WH	WALL HYDRANT (EXTERIOR FROST-PROOF HOSE BIBB)	N/A	3/4"	MOUNT 2'-0" ABOVE FINISHED GRADE. SEE SPECS. PROVIDE A #1012 BACKFLOW PREVENTER. REFER TO DETAIL PSD-16D	P.C.	P.C.

2" REFERENCE LINE

architecture + design
creating extraordinary places
www.cr-architects.com
800.459.4849

CINCINNATI 600 Vine Street Suite 1400 513.721.8580
DENVER 1675 Broadway Suite 2100 CO 80202 303.893.4849
DALLAS 750 North St Paul Street suite 1500 75201 800.459.4849
SEATTLE 600 Stewart Street Suite 1600 98101 800.459.4849

CONSULTANTS

KLH ENGINEERS
MECHANICAL ELECTRICAL ENGINEERS
WWW.KLHENGINEERS.COM
1508 A STANSIFER COURT 11
FT. THOMAS, KENTUCKY 41075
859-442-8555 FAX
LEXINGTON, KENTUCKY
LOUISVILLE, KENTUCKY
CINCINNATI, OHIO
NEW YORK, NEW YORK

OWNER

Kroger

DATE	ISSUE
10/23/2018	90% OWNER REVIEW
11/01/2018	100% BIDPERMIT

DATE	REVISION

PROJECT TITLE
KROGER STORE R543

MERCURY BLVD.
HAMPTON, VA

COMMISSION NO. 517315
ISSUE DATE 10/23/2018
SHEET TITLE
PLUMBING SCHEDULES

SHEET NO.
P6.1

©2017 CoreStates Architects, Inc.

OWNERSHIP OF INSTRUMENTS OF SERVICE
All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by the Consultant as instruments of service shall remain the property of the Consultant. The Consultant shall retain all common law, statutory and other reserved rights, including copyright.
11/1/2018 2:04:45 PM