

Order Plans @

www.dline.com

OWNERSHIP OF INSTRUMENTS OF SERVICE: All rights, title, and interest in any drawings, specifications, or other documents prepared by the Consultant are retained by the Consultant. The Consultant shall retain all rights in the drawings, specifications, and other documents, including without limitation, the right to reuse the drawings, specifications, and other documents in any future projects. The Consultant shall retain all rights in the drawings, specifications, and other documents, including without limitation, the right to reuse the drawings, specifications, and other documents in any future projects.

11/02/2018 2:04:19 PM

GENERAL NOTES
A. BOLD, DASHED LINES ON NEW WORK PLANS INDICATE UNDERGROUND PLUMBING.
B. PIPING ROUTED IN COOLER OR FREEZER WALLS WILL NOT BE PERMITTED.
C. WATER PIPING IN AREAS SUBJECT TO FREEZING TEMPERATURES WILL NOT BE PERMITTED.
D. REFER TO ARCHITECTURAL CONCRETE PLACEMENT PLAN FOR REFRIGERATION PITS, TRENCHES.
E. TRENCH DRAINS TO BE OF SUFFICIENT LENGTH TO COVER DOOR OPENING AND PROVIDE PROPER DRAINAGE FOR COOLER AND/OR FLOOR AREA. SEE PSD-24.
F. WHEN POSSIBLE, LOCATE CLEANOUTS, SO AS NOT TO FALL IN DOOR OPENINGS, UNDER PALLET RACKS, OR IN MAIN TRAFFIC AISLES.
G. ALL GAS, WATER, AND SPRINKLER LINES INSIDE BUILDING TO BE INSTALLED AS HIGH AS PRACTICAL.
H. MAKE FINAL CONNECTION TO KROGER SUPPLIED EQUIPMENT.
I. BRANCH ISOLATION VALVES TO BE MOUNTED AT 10' 6" A.F.F. UNLESS OTHERWISE NOTED. IF MOUNTING AT 10' 6" A.F.F. IS PHYSICALLY IMPOSSIBLE, MOUNT AS CLOSE TO 10' 6" A.F.F. AS POSSIBLE, MAKE ACCESSIBLE, AND HIDDEN FROM PUBLIC VIEW.
J. WHENEVER POSSIBLE, NEW PIPING SHALL BE RUN CONCEALED. COORDINATE LOCATION OF ALL PIPING WITH HVAC AND ELECTRIC SUBCONTRACTOR. COORDINATE CUTTING AND PATCHING WITH GENERAL CONTRACTOR.
K. WHENEVER FIXTURES REQUIRING PLUMBING CONNECTIONS ARE FURNISHED BY OWNER, PLUMBING SUBCONTRACTOR SHALL FURNISH AND INSTALL CARRIERS, UP-TANK AND STOPS.
L. ALL PIPE DROPS IN SALES AREA FROM ROOF TO LOW WALLS OR EQUIPMENT SHOULD BE COORDINATED AND GROUP TOGETHER WITH OTHER MECHANICAL PIPES. ENSURE ALL PIPING DROPS ARE ARE SUPPORTED EVERY 10'. COORDINATE WITH GENERAL CONTRACTOR.
M. PIPING TO SERVICE AREAS SHALL BE INSTALLED IN FRAMED WALL ON WARM SIDE OF INSULATED WALL PANELS USED FOR PREP ROOMS. WALL SHALL RUN SHORTEST DISTANCE TO EQUIPMENT. GROUP INSULATED LINES TOGETHER WHERE EXPOSED IN SALES AREA FOR ALL LINES AT BOTTOM OF BAR JOISTS. PIPING IS NOT ALLOWED INSIDE COOLERS OR FREEZERS.
N. NO PIPE ROUTING ALLOWED TO RUN THROUGH ELEVATOR EQUIPMENT ROOMS.
O. DROP WATER DOWN IN WALL. ROUTE WATER THRU WALL TO SERVE MULTIPLE FIXTURES ON COMMON WALL. REFER TO FIXTURE CONNECTION SCHEDULE FOR EQUIPMENT REQUIREMENTS.
P. ALL MEP TRADES, INCLUDING SPRINKLER MUST COORDINATE WITH EACH OTHER PRIOR TO INSTALLATION.
Q. PROVIDE BACKFLOW PROTECTION ON ALL FIXTURES WITH THE POTENTIAL TO MIX. (FOR EXAMPLE: MOP SINK FAUCET SUPPLY, 3 COMPARTMENT SINK FAUCET SUPPLY, ICE MAKER, COFFEE MAKER, DRINKING MACHINE, ETC. REFER TO PLUMBING CONNECTION SCHEDULE.
R. NO SURFACE MOUNTED WATER OR VENT PIPING PERMITTED INSTALLED EXPOSED IN PREP ROOMS.
S. EXPOSED WATER, WASTE, SODA SYRUP LINES, AND CONDUCITS ON WALL, FLOOR, AND CEILING SURFACES ARE PROHIBITED.
T. ALL EQUIPMENT MUST MEET APPLICABLE ANSI STANDARDS FOR CONSTRUCTION AND INSTALLATION. ALL EQUIP. LISTED AS CUSTOM FABRICATED MUST MEET THE APPROPRIATE ANSI STANDARDS.

STANDARD PLUMBING ABBREVIATIONS
1 COMP 1 COMPARTMENT SINK
2 COMP 2 COMPARTMENT SINK
AAV AIR ADMITTANCE VALVE
ACCESS ACCESSORIES
AD AREA DRAIN
AFF ABOVE FINISHED FLOOR
AFIC ABOVE FINISHED GRADE
AMP AMPERE
ANSI AMERICAN NATIONAL STANDARD
ANSI/ANSI AMERICAN NATIONAL STANDARD
ANSI/APPROX APPROXIMATE
ASPE AMERICAN SOCIETY OF PROFESSIONAL ENGINEERS
PLUMBING PLUMBING
ACID WASTE ACID WASTE
BAS BUILDING AUTOMATION SYSTEM
BFP BACKFLOW PREVENTER
BT BILL OF MATERIALS
BTIC BLOWOFF TANK CONTROL VALVE
BTU BRITISH THERMAL UNIT
BV BALANCING VALVE
BTU BRITISH THERMAL UNIT PER HOUR
BWV BACK WATER VALVE
CA CENTIGRADE (CELSIUS)
CA COMPRESSED AIR
CB CATCH BASIN
CD-1 CONSTRUCTION DOCUMENTS (SUBMISSION)
CD-2 CONSTRUCTION DOCUMENTS (SUBMISSION)
CH CUBIC FEET PER HOUR
CTM CUBIC FEET PER MINUTE
CFS CUBIC FEET PER SECOND
CM CLEAN OUT
COP CARBON DIOXIDE
COMP COMPRESSOR UNIT
CP CIRCULATION PUMP
CPVC CHLORINATED POLYVINYL CHLORIDE
CW COLD WATER (POTABLE)
D-1 DESIGN DEVELOPMENT (SUBMISSION)
D-2 DESIGN DEVELOPMENT (SUBMISSION)
DEC CHANGE IN TEMPERATURE
DELTA CHANGE IN TEMPERATURE
DF DRINKING FOUNTAIN
DWD DEWPOINT WATER
DA DIAMETER
DN DOWN
DS DOWNSPOUT
E-1 ELECTRICAL CONTRACTOR
EGS EMERGENCY GAS SHUTOFF
EJ EXPANSION JOINT
EL ELEVATION
EXP EXPANSION TANK
EWD ELECTRIC WATER COOLER
EH ELECTRIC HEATER
EX EXISTING
FCC FAIRWEATHER
FDC FLOOR CLEAN OUT
FIE FIRE DEPARTMENT CONNECTION
FLA FINISHED FLOOR ELEVATION
FOP FLOOR OVERHEAD PANEL
FP FIRE PUMP
FRT FIRE RESISTANT
FS FIRE STOP
FSTAT FIRE STAT
FTL FURNISHING
FURN FURNISHING
GAS GAS
GALLONS GALLONS
GAS FRESH WATER HEATER
GENERAL GENERAL
GAS FRESH WATER HEATER
GAS INTERCEPTOR
GALLONS PER DAY
GALLONS PER HOUR
GALLONS PER MINUTE
GAS PRESSURE REGULATOR
GR GRABS
GT GREASE TRAP
GW GREASE WASTE
HC HOT & COLD WATER
HB HVAC CONTRACTOR
HD HUB DRAIN
HDPE HIGH DENSITY POLYETHYLENE
HGT HEIGHT
HT HOT TAP
HW HOT WATER
HWR HOT WATER RETURN
HO INPUT/OUTPUT
HTENSURE GATE UNIT
ID INSIDE DIAMETER
IN INVERT ELEVATION
INDIR INDIRECT
NCH NOT WATER COLUMN
NCH-POUND NOT-POUND
NWB NOT WELDED
JP JOCKEY PUMP
KB KILOGRAM
KGHR KILOGRAM PER HOUR
KW KILOWATT
KWH KILOWATT HOUR
L LITER
LAB LABORATORY
LAS LIMITED AREA SPRINKLER
LH LITERS PER HOUR (OR LITERS/HOUR)
LM LITERS PER MINUTE (OR LITERS/MINUTE)
L/S LITERS PER SECOND (OR LITERS/SECOND)
LPH LITERS PER HOUR (OR LITERS/HOUR)
LF LEANING
LQ LIQUID
LPG LIQUID PROPANE GAS
LVG LEAVING
M METER, SI UNIT
M/S METERS PER SECOND (OR METERS/SECOND)
MAKE-UP AIR UNIT MAKE-UP AIR UNIT
MAX MAXIMUM
1000 BTUH 1000 BTUH
MGAP MED GAS ALARM PANEL
MGS MESS
MND MANHOLE
MHP MOTOR HORSEPOWER
MM MILLIMETER
MOP MAXIMUM OVERCURRENT PROTECTION
MS MIXING VALVE
M/N MIXING VALVE
NA NOT APPLICABLE
NORMALLY CLOSED NORMALLY CLOSED
NOT FOR CONSTRUCTION NOT FOR CONSTRUCTION
NATURAL GAS NATURAL GAS
NITROUS OXIDE NITROUS OXIDE
NOAA NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION
NGT TO SCALE
NOM NUMBER
NTS NOT TO SCALE
O2 OXYGEN
OVER CURRENT PROTECTION OVER CURRENT PROTECTION
OD OUTSIDE DIAMETER
OVS OVERFLOW VALVE
OL OPERATING ROOM
OUT OPERATING ROOM
P PUMP
PACCA PLUMBING CONTRACTOR
PFD POUNDS PER SQUARE FOOT (PSF)
PRESSURE GAGE PRESSURE GAGE
PPI PIPES INDICATOR
PPM PARTS PER MILLION
PRV PRESSURE REGULATING VALVE
PSI POUNDS PER SQUARE INCH
PSIA POUNDS PER SQUARE INCH - ABSOLUTE
PSIG POUNDS PER SQUARE INCH - GAUGE
PVC POLYVINYL CHLORIDE
QUAN QUANTITY
RADI RADIANT
RD RADIANT
RH RADIANT
RL RADIANT
RFB RADIANT
RFBF RADIANT PRESSURE BACKFLOW PREVENTER
RPM REVOLUTIONS PER MINUTE
RIZ REDUCED PRESSURE ZONE VALVE
RTU ROOF TOP UNIT
RY RADIANT
S SANITARY
SC SPRINKLER CONTRACTOR
SD SHOWER DRAIN
SHEMATIC DESIGN SHEMATIC DESIGN
S0-2 (SUBMISSIONS)
SEWAGE EJECTOR
SH SHOWER
SOLIDS INTERCEPTOR SINK
SK SINK
SFT SOFT WATER
SOL SOLID
SPEC SPECIFICATION
STAND STANDARD
SP GR SPECIFIC GRAVITY
SQ SQUARE
SQ FT SQUARE FOOT (FEET)
SS STAINLESS STEEL
STD STANDARD
ST STORM PIPING SYSTEM
SYS SYSTEM
TAB TESTING, ADJUSTING, BALANCE
TD TRENCH DRAIN
TDAL DYNAMIC HEAD TEMPERATURE
TEMP TEMPERATURE
THERMOSTATIC MIXING VALVE THERMOSTATIC MIXING VALVE
TR TRAP
TS TAMPER SWITCH
TSTAT THERMOSTAT
TU TERMINAL UNIT
UH UNIT HEATER
UN UNDERWRITERS LABORATORY
UN UNION
V VALVE
VAC VACUUM
VAL VALVE
VFD VARIABLE FREQUENCY DRIVE
VAG VACUUM PUMP
VTR VENT THRU ROOF
WAG WASTE AGES/THESIS GAS
WB WASH BASIN
WC WATER CLOSET
WCO WALL CLEAN OUT
WH WALL HYDRANT
WF WATER FILTER
WTR WATER
YH YARD HYDRANT
YB YARD

PLUMBING LEGEND
SYMBOL DESCRIPTION
PLAN-VIEW LINE TYPES
DIRECTION OF FLOW
PIPING LINE TYPES
SANITARY WASTE PIPING
SANITARY VENT PIPING
GREASE WASTE PIPING
DEDICATED FLOOR DRAIN PIPING
STORM PIPING (PRIMARY)
DOMESTIC COLD WATER PIPING
DOMESTIC HOT WATER PIPING
DOMESTIC HOT WATER RETURN PIPING
FILTERED WATER PIPING
CONDUIT FOR DRINK LINES (BIBCO/DBEER)
REVERSE OSMOSIS WATER PIPING
NATURAL GAS PIPING
PLUMBING ACCESSORIES
UNION
PIPE CAP
STRAINER
PRESSURE GAUGE
FLOOR CLEANOUT
FLOOR SINK
AREA DRAIN
HUB DRAIN
TRENCH DRAIN
DOWNSPOUT (EXTERIOR)
ROOF DRAIN (PRIMARY)
OVERFLOW DRAIN (SECONDARY)
MANHOLE
EXPANSION TANK
PIPE VALVES
CONTROL VALVE, SHUT-OFF VALVE
CHECK VALVE
BALANCING VALVE
SOLENOID VALVE
THERMOSTATIC MIXING VALVE
PRESSURE REGULATOR VALVE
PRESSURE AND TEMPERATURE RELIEF VALVE
DOUBLE CHECK VALVE
BACKFLOW PREVENTER
FROST PROOF WALL HYDRANT (EXTERIOR)
HOSE BIBB (INTERIOR)
TRAP PRIMER VALVE
PLUMBING SYMBOLS
PIPE UP
PIPE DOWN
PIPE TEE DOWN
PIPE TEE UP
PIPE CONTINUATION
RISER NUMBER
CONNECT TO EXISTING (FIELD VERIFY EXISTING UTILITY SERVICE TYPE, PRIOR TO MAKING CONNECTION)
VENT THROUGH ROOF
PLUMBING MISCELLANEOUS
PLUMBING TRANSFORMER
CIRCULATION PUMP, RETURN PUMP

www.dline.com
creating extraordinary places
www.or-architects.com
909-449-6948

MECHANICAL/ELECTRICAL ENGINEERS
WWW.KHENGHS.COM
LEVINGTON, KENTUCKY
LOUISVILLE, KENTUCKY
NEW YORK, NEW YORK
NEW YORK, NEW YORK

OWNER
Kroger

DATE: 10/23/2018
ISSUE: 10% OWNER REVIEW
11/01/2018 10% OWNER REVIEW

PROJECT TITLE: KROGER STORE R543
MERCURY BLVD. HAMPTON, VA

COMMISSION NO: 517315
ISSUE DATE: 10/23/2018
SHEET TITLE: PLUMBING ABBREVIATIONS, SYMBOLS, AND GENERAL NOTES

SHEET NO: P0.1

2" REFERENCE LINE