



#### GENERAL NOTES:

1. WATER SERVICE PIPE SHALL HAVE A LEVEL OR POSITIVE GRADE FROM THE WATER MAIN TO THE BUILDING (NO HUMPS OR DIPS) TO PREVENT AIR TRAPS.
2. SEALED BY-PASS VALVE REQUIRED ON 2" AND LARGE METERS.
3. METER SHALL BE A MINIMUM OF 1'-0" AND A MAXIMUM OF 4'-0" ABOVE FLOOR LEVEL.
4. INSTALL CIRCULATION PUMP ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
5. CHECK WITH DU FOR LAYING LENGTH REQUIRED FOR METER INSTALLATION LAYING LENGTHS WILL VARY WITH METER SIZE AND TYPE.
6. COORDINATE ALL GROUNDING WIRING WITH BUILDING ELECTRICAL CONTRACTOR.
7. SINGLE STRAP ON 4" - 8" MAINS, DOUBLE STRAP ON 10" - 14" MAINS. OUTLETS ON 8" CENTERS

#### MATERIAL LIST - INSTALLER ITEMS

ITEM	DESCRIPTION
①	COPPER TUBING, TYPE "K", LENGTH AS REQUIRED
②	THAW BUS #1 AWG MIN. LENGTH AS REQUIRED
③	PIPE AND NIPPLES, LENGTHS AS REQUIRED
④	ELBOW
⑤	CLAMP, VARIABLE SIZE 3/4" TO 2"
⑥	COPPER FLANGE
⑦	BACKFLOW PREVENTOR
⑧	CONDUIT OR #18, 2-CONDUCTOR WIRE
⑨	CIRCULATION PUMP (MANDATORY)
⑩	GATE VALVE OR BALL VALVE
⑪	FLARE NUT
⑫	GROUND WIRE SIZED PER NEC, LENGTH AS REQUIRED
⑬	PRESSURE REDUCING VALVE, 80-40 PSI
⑭	BLUE UTILITY WARNING TAPE
⑮	CORPORATION STOP SADDLE CONNECTION
⑯	CORPORATION STOP
⑰	GROUND RING, ROD OR OTHER APPROVED GROUNDING DEVICE
⑱	TEE FITTING
⑲	SEAL PENETRATION WITH URETHANE FOAM
⑳	VALVE BOX & COVER
㉑	2" MINIMUM BETWEEN PIPES
㉒	PRESSURE INDICATOR W/SHUT-OFF
㉓	THERMOMETER W/SHUT-OFF

CIRCULATING LOOP FOR 2 INCH & SMALLER WATER SERVICE



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Date: 14 FEB 2010  
Scale: NONE  
Designed By: CDH  
Drawn By: DLW  
Checked By: NEM

DIRECT BURIED WATER DISTRIBUTION SYSTEM  
CIRCULATING LOOP WATER SERVICE  
DESIGN & CONSTRUCTION STANDARDS

Drawing No.  
UES-DD-W110