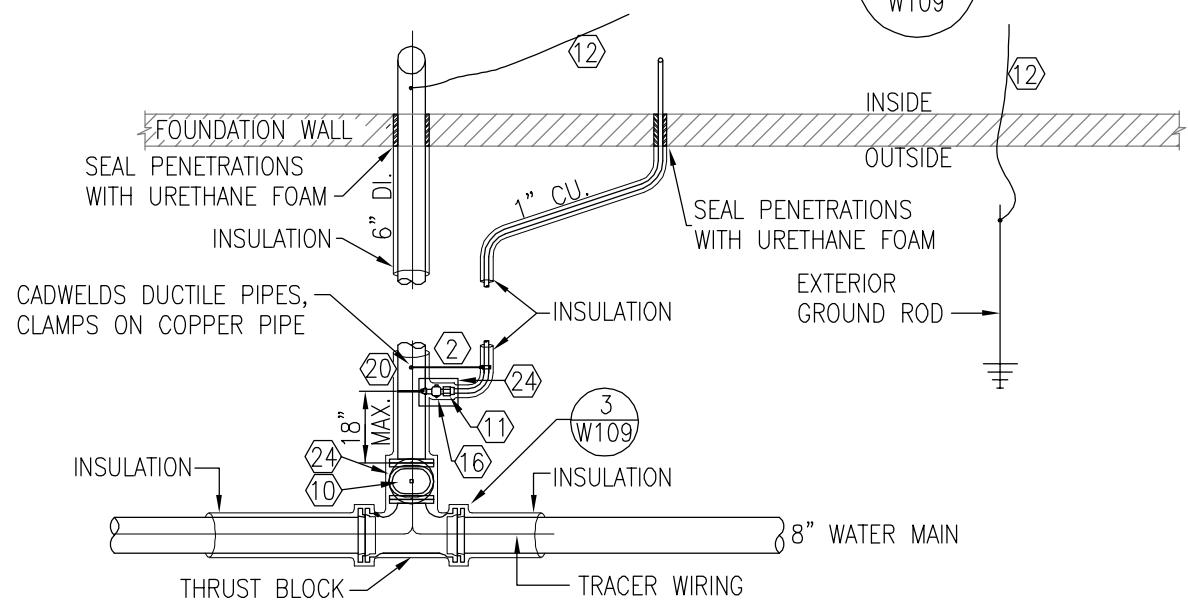


INSIDE BUILDING ELEVATION VIEW



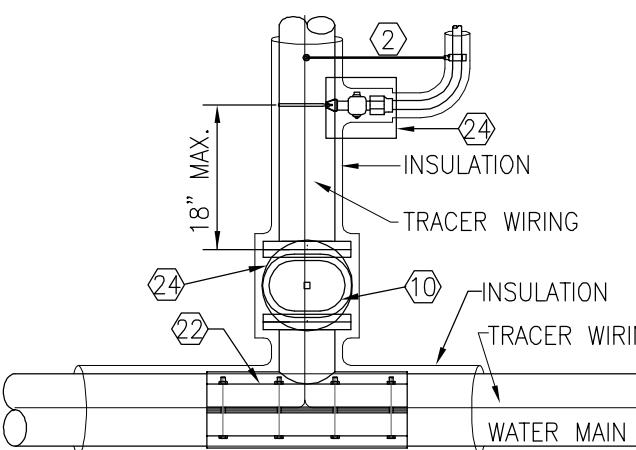
CIRCULATING WATER SERVICE WITH FIRE SUPPRESSION

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. TAPPING TEE/SLEEVE AND GATE VALVE PROVIDE BY DU CONTRACTOR INSTALLED.
 8. SINGLE STRAP ON 4" - 8" MAINS, DOUBLE STRAP ON 10" - 14" MAINS. OUTLETS ON 8" CENTERS.

MATERIAL LIST – INSTALLER ITEMS

| ITEM | DESCRIPTION |
|------|--|
| ① | PIPING PER UES-TS-W003 |
| ② | THAW BUS #1 AWG MIN. LENGTH AS REQUIRED |
| ③ | PIPE AND NIPPLES, LENGTHS AS REQUIRED |
| ④ | ELBOW |
| ⑤ | PLATE STRAINER (SUPPLIED BY DU) |
| 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 | FLANGED DUCTILE IRON REDUCING TEE |
| ⑮ | CHECK VALVE |
| ⑯ | CORPORATION STOP |
| ⑰ | REDUCER FITTING |
| ⑱ | TEE FITTING |
| ⑲ | REDUCING TEE |
| ⑳ | FLANGED DUCTILE IRON PIPE, LENGTHS AS REQUIRED |
| ㉑ | DUCTILE IRON MJ PIPE, LENGTHS AS REQUIRED |
| ㉒ | TAPPING SLEEVE |
| ㉓ | DOUBLE CHECK VALVE (FIRE RATED) |
| ㉔ | VALVE BOX & COVER |
| ㉕ | PRESSURE INDICATOR W/SHUT-OFF |
| ㉖ | THEMOMETER W/SHUT-OFF |



EXISTING WATER SERVICE TAPPING VALVE SLEEVE DETAIL



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DIRECT BURIED WATER DISTRIBUTION SYSTEM CIRCULATING WATER SERVICE WITH FIRE SUPPRESSION

Drawing No. 11ES DD W100

DESIGN & CONSTRUCTION STANDARDS