



ALL JOINTS TO BE RESTRAINED.  
 FITTINGS: MEGALUG (OR EQUIVALENT) RESTRAINTS  
 PIPE BELLS: FIELD LOK (OR EQUIVALENT) GASKETS

ALTERNATE MATERIALS MUST BE APPROVED BY THE CITY OF NAPA WATER DIVISION PRIOR TO USE

**NOTES**

1. ALL WATER MAINS 6" OR LARGER STUBBED WITH THE INTENT OF BEING CONNECTED IN THE FUTURE SHALL BE INSTALLED PER THIS DETAIL, REGARDLESS OF THE LOCATION OF THE NEAREST HYDRANT. BLOW-OFFS SHALL ONLY BE INSTALLED ON WATER MAINS LESS THAN 6" IN DIAMETER, OR AT THE DISCRETION OF THE WATER DIVISION.
2. ALL JOINTS WITHIN MINIMUM RESTRAINED LENGTH "L" SHALL BE RESTRAINED. FULL LENGTH PIPE SECTIONS SHALL BE USED. WHEN LENGTH "L" OCCURS WITHIN THE MID SECTION OF A PIPE, THE NEXT JOINT OUT SHALL BE RESTRAINED.
3. RESTRAINED JOINTS REQUIRE INSPECTION BY THE CITY OF NAPA. **CONTRACTOR IS RESPONSIBLE FOR SCHEDULING INSPECTION IN ADVANCE AND LEAVING JOINTS EXPOSED FOR THE CITY INSPECTOR.**
4. MINIMUM RESTRAINED LENGTH SHALL BE CLEARLY SHOWN ON THE PROFILE OF ALL WATERLINE PLANS.
5. MINIMUM RESTRAINED LENGTH SHALL BE RE-CALCULATED TO ACCOUNT FOR OTHER FITTINGS (VALVES, TEES, BENDS) WITHIN LENGTH "L".
6. RESTRAINED LENGTHS FOR PIPE SIZES LARGER THAN 12" SHALL BE DETERMINED BY THE ENGINEER AND APPROVED BY THE CITY.
7. A BUTTERFLY VALVE SHALL BE USED INSTEAD OF A GATE VALVE (PER CITY STANDARD W-9) FOR WATER MAINS 12" OR LARGER.
8. SEE W-14B FOR "L" LENGTH SPECIFICATIONS AND ADDITIONAL RESTRAINED JOINT DETAILS.

CITY OF NAPA

PUBLIC WORKS DEPARTMENT

TITLE  
**FUTURE MAIN EXTENSION STUB**

DRAWN BY: DCF  
 DATE: 07/2017  
 SCALE: NTS  
 FIELD NOTES:

CHECKED BY: MJH  
 APPROVED BY: MJH  
 DRAWING NO. W-19