

- ① DOUBLE CHECK DETECTOR ASSEMBLY W/ FLANGED OS&Y VALVES.
- ② PIPE SUPPORT, 2" GALVANIZED SCH 40 AT MINIMUM.
- ③ 4" CONCRETE SLAB - 24" WIDE WITH VARYING LENGTH.
- ④ 6" OF CRUSHED AGGREGATE COMPACTED TO 95% COMPACTION.
- ⑤ THRUST BLOCK (PER DWG. 8-3A) WITH #5 REBARS. WRAP THE PORTION OF THE REBAR THAT IS NOT EMBEDDED IN THE CONCRETE WITH 20 MIL POLYETHYLENE TAPE.
- ⑥ FLANGED CONNECTION ONLY.
- ⑦ FLANGE X FLANGE SPOOL, DUCTILE IRON. WRAP WITH TWO LAYERS OF 20 MIL TAPE AT SLAB PENETRATION.
- ⑧ FLANGE X FLANGE 90° ELBOW, DUCTILE IRON.
- ⑨ WAFER CHECK VALVE.
- ⑩ GATE VALVE, FLANGE X FLANGE.
- ⑪ VALVE BOX, SEE DWG. 8-5 FOR REQUIREMENTS.
- ⑫ DUCTILE IRON PIPE, PUSH ON JOINTS. RESTRAIN WITH U.S. PIPE FIELD LOK GASKETS OR APPROVED EQUAL.
- ⑬ LOCATING WIRE PER DWG. 8-4A. LOOP WIRE AROUND PIPE AT TOP OF SLAB.
- ⑭ FLANGE X MJ ADAPTER. RESTRAIN MJ WITH EBAA MEGALUG 1100 OR APPROVED EQUAL.

NOTES:

- A. DOUBLE CHECK DETECTOR ASSEMBLY SHALL BE APPROVED BY THE STATE OF CALIFORNIA DIVISION OF DRINKING WATER AND BE ON THE MOST RECENT LIST OF APPROVED BACKFLOW PREVENTION ASSEMBLIES. (www.emd.saccounty.net/EC/Pages/CrossConnection.aspx) (www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/Publications.shtml) (www.usc.edu/dept/fccchr/list.html)
- B. IF SPECIFICALLY CALLED OUT ON THE PLANS, DO NOT PROVIDE FIRE DEPARTMENT CONNECTION. IN THAT CASE, INSTALL FL X FL 90° ELBOW INSTEAD OF FL X FL TEE.
- C. PIPE SHALL BE DUCTILE IRON. FLANGES SHALL BE CLASS D.
- D. ALL BURIED METAL SHALL BE ENCASED WITH 8 MIL POLYETHYLENE SO THAT NO SOIL IS IN CONTACT WITH METAL.
- E. BYPASS DETECTOR ASSEMBLY SHALL BE MAINTAINED IN OPERABLE CONDITION AT ALL TIMES BY OWNER.

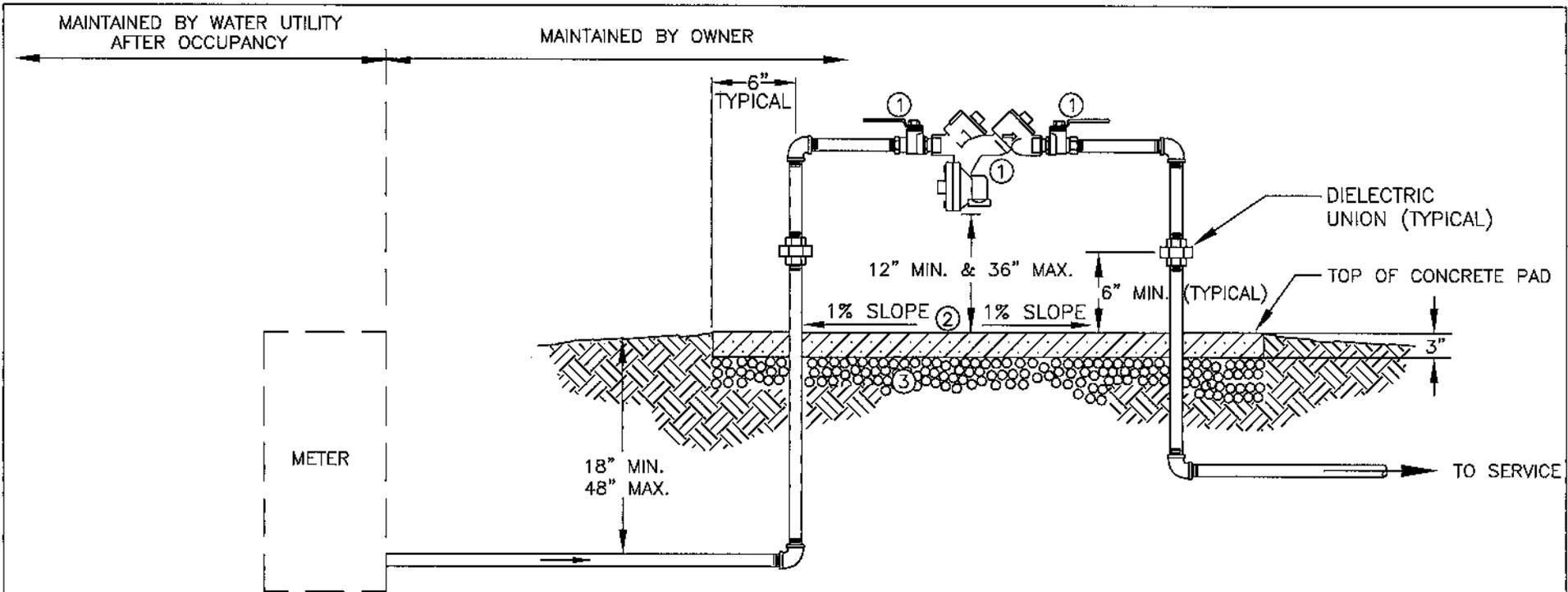
**SACRAMENTO COUNTY
MUNICIPAL SERVICES AGENCY**

**FIRE PROTECTION
DETAIL**

Michael L. Peterson
DIRECTOR, DEPARTMENT OF WATER RESOURCES

SCALE: NONE
DATE: 11/15

8-7



NOTES:

- A. REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY SHALL BE APPROVED BY THE STATE OF CALIFORNIA DIVISION OF DRINKING WATER AND BE ON THE MOST RECENT LIST OF APPROVED BACKFLOW PREVENTION ASSEMBLIES.
www.emd.saccounty.net/EC/Pages/CrossConnection.aspx
www.waterboards.ca.gov/drinking_water/certl/c/drinkingwater/Publications.shtml
www.usc.edu/dept/fccchr/list.html
- B. ALL PIPE SHALL BE GALVANIZED SCHEDULE 40 STEEL, TYPE K COPPER, OR BRASS. BURIED METAL SHALL BE ENCASED WITH 8 MIL POLYETHYLENE WRAP OR 10 MIL POLYETHYLENE TAPE SO THAT NO SOIL IS IN CONTACT WITH METAL.
- C. GALVANIZED PIPE SHALL HAVE ANODE BAG PER COUNTY CODE SECTION 16.24.100. INSTALL DIELECTRIC COUPLING OR FITTING BETWEEN DISSIMILAR METALS.

- ① REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY, WITH 2 BRONZE RESILIENT SEATED BALL VALVES MINIMUM WORKING PRESSURE 175 PSI.
- ② 3" SLAB - 18" WIDE WITH VARYING LENGTH
- ③ 1/2" OR 3/4" CRUSHED ROCK, 4" MINIMUM THICKNESS, MECHANICALLY COMPACTED TO 95% COMPACTION.

Michael L. Peters

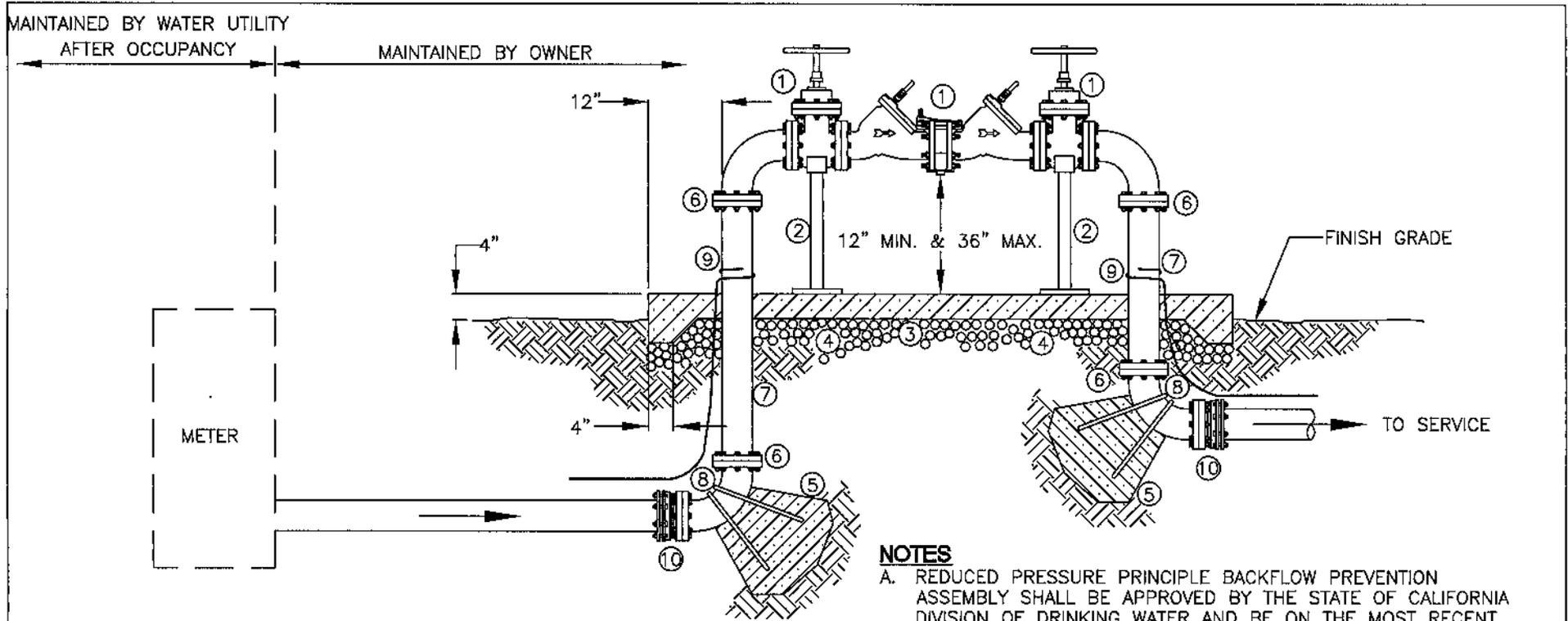
DIRECTOR, DEPARTMENT OF WATER RESOURCES

SACRAMENTO COUNTY
MUNICIPAL SERVICES AGENCY

**REDUCED PRESSURE BACKFLOW
PREVENTER 1" TO 2"**

SCALE: NONE
DATE: 11/15

8-8A

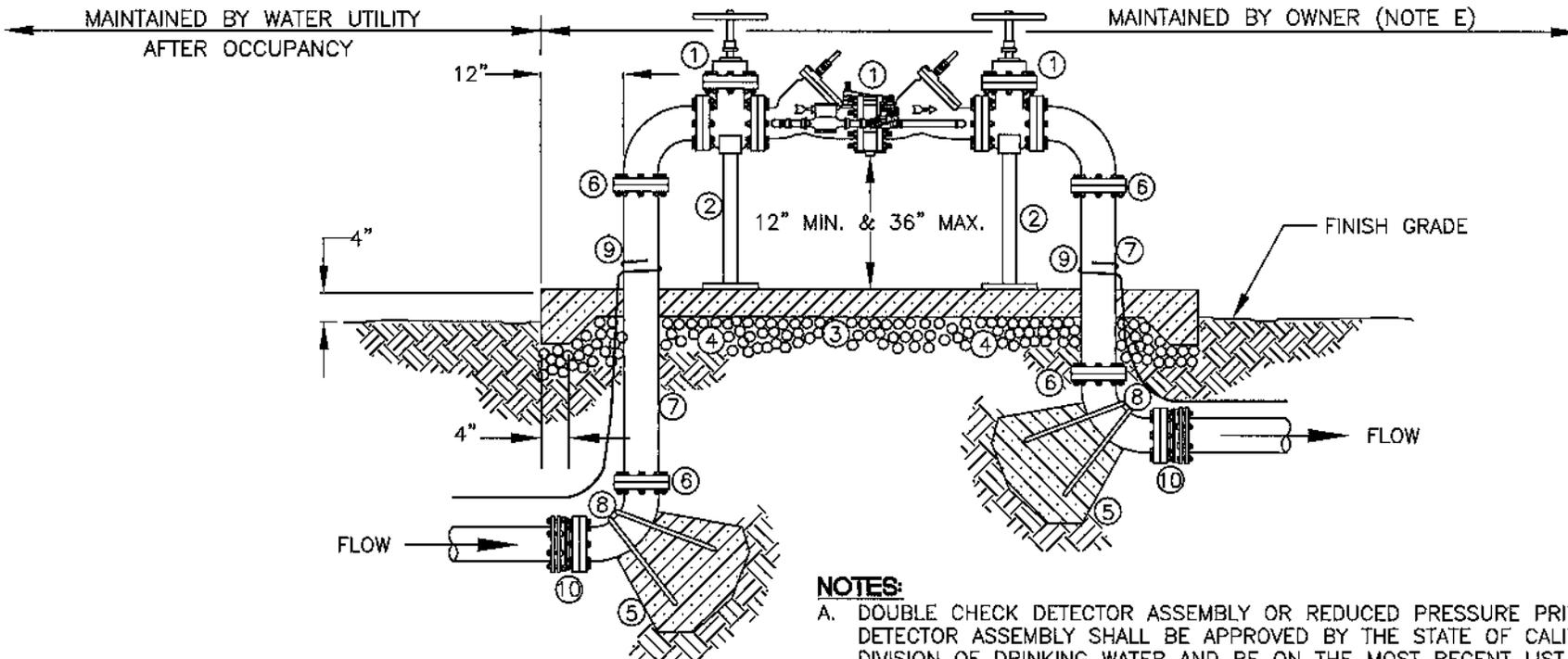


- ① REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY, WITH 2 RESILIENT WEDGE GATE VALVES, FLANGED, WITH HANDWHEEL OPERATORS.
- ② PIPE SUPPORT, MIN. 2" GALVANIZED SCH 40.
- ③ 4" CONCRETE SLAB - 24" WIDE WITH VARYING LENGTH.
- ④ 6" CRUSHED AGGREGATE COMPACTED TO 95% COMPACTION
- ⑤ THRUST BLOCK (PER DWG. 8-3A) WITH #5 REBARS. WRAP THE PORTION OF THE REBAR NOT EMBEDDED IN CONCRETE WITH 20 MIL POLYETHYLENE TAPE .
- ⑥ FLANGE CONNECTION ONLY.
- ⑦ FLANGE X FLANGE SPOOL, DUCTILE IRON. WRAP WITH 2 LAYERS 20 MIL TAPE AT SLAB PENETRATION
- ⑧ FLANGE X FLANGE 90° ELBOW, DUCTILE IRON.
- ⑨ LOCATING WIRE PER DWG. 8-4A. LOOP WIRE AROUND PIPE AT TOP OF SLAB.
- ⑩ FLANGE X MJ ADAPTER, RESTRAINED.

- NOTES**
- A. REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY SHALL BE APPROVED BY THE STATE OF CALIFORNIA DIVISION OF DRINKING WATER AND BE ON THE MOST RECENT LIST OF APPROVED BACKFLOW PREVENTION ASSEMBLIES.
www.emd.saccounty.net/EC/Pages/CrossConnection.aspx
www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/Publications.shtml
www.usc.edu/dept/fccchr/list.html
 - B. PIPE SHALL BE DUCTILE IRON. FLANGES SHALL BE CLASS D.
 - C. ALL BURIED METAL SHALL BE ENCASED WITH 8 MIL. POLYETHYLENE SO THAT NO SOIL IS IN CONTACT WITH METAL.

Michele G. Kelly
 DIRECTOR, DEPARTMENT OF WATER RESOURCES

SACRAMENTO COUNTY MUNICIPAL SERVICES AGENCY	
REDUCED PRESSURE BACKFLOW PREVENTER 3" AND LARGER	
SCALE: NONE DATE: 11/15	8-8B



- ① DOUBLE CHECK DETECTOR ASSEMBLY OR RP PRINCIPLE DETECTOR ASSEMBLY. TYPE AS CALLED OUT ON PLANS, WITH 2 RESILIENT WEDGE GATE VALVES, FLANGED, WITH HANDWHEEL OPERATORS.
- ② PIPE SUPPORT, MIN. 2" GALVANIZED SCH 40.
- ③ 4" CONCRETE SLAB - 24" WIDE WITH VARYING LENGTH.
- ④ 6" CRUSHED AGGREGATE COMPACTED TO 95% COMPACTION
- ⑤ THRUST BLOCK (PER DWG. 8-3A) WITH #5 REBARS. WRAP THE PORTION OF THE REBAR NOT EMBEDDED IN CONCRETE WITH 20 MIL POLYETHYLENE TAPE.
- ⑥ FLANGE CONNECTION ONLY.
- ⑦ FLANGE X FLANGE SPOOL, DUCTILE IRON. WRAP WITH 2 LAYERS 20 MIL TAPE AT SLAB PENETRATION.
- ⑧ FLANGE X FLANGE 90° ELBOW, DUCTILE IRON.
- ⑨ LOCATING WIRE PER DWG. 8-4A. LOOP WIRE AROUND PIPE AT TOP OF SLAB.
- ⑩ FLANGE X MJ ADAPTER, RESTRAINED.

NOTES:

- A. DOUBLE CHECK DETECTOR ASSEMBLY OR REDUCED PRESSURE PRINCIPLE DETECTOR ASSEMBLY SHALL BE APPROVED BY THE STATE OF CALIFORNIA DIVISION OF DRINKING WATER AND BE ON THE MOST RECENT LIST OF APPROVED BACKFLOW PREVENTION ASSEMBLIES.
www.emd.saccounty.net/EC/Pages/CrossConnection.aspx
www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/Publications.shtml
www.usc.edu/dept/fccchr/list.html
- B. PIPE SHALL BE DUCTILE IRON. FLANGES SHALL BE CLASS D.
- C. ALL BURIED METAL SHALL BE ENCASED WITH 8 MIL. POLYETHYLENE SO THAT NO SOIL IS IN CONTACT WITH METAL.
- D. PROVIDE TAMPER SWITCHES AND CHAIN LOCK IF REQUIRED BY FIRE DEPARTMENT.
- E. BYPASS DETECTOR ASSEMBLY SHALL BE MAINTAINED IN OPERABLE CONDITION AT ALL TIMES BY OWNER.

DIRECTOR, DEPARTMENT OF WATER RESOURCES

SACRAMENTO COUNTY MUNICIPAL SERVICES AGENCY	
DOUBLE CHECK DETECTOR OR RP PRINCIPLE DETECTOR 6" AND LARGER	
SCALE: NONE DATE: 11/15	8-8C