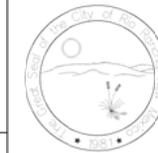


**GENERAL CONSTRUCTION NOTES:**

1. GATE VALVE WITH BOX, COVER, AND CIRCULAR COLLARS SHALL BE INSTALLED ON NEW AND EXISTING WATER MAINS.
2. FIRE HYDRANTS SHALL HAVE 5 1/4" VALVE OPENING, BE DRY BARREL/ DRY TOP, TRAFFIC MODEL, WITH ONE 4 1/2" PUMPER NOZZLE, TWO 2 1/2" HOSE NOZZLES, NS THREAD, PENTAGON OPERATING NUT (1 1/2" POINT TO FLAT) WITH 1" SIDES, WHICH SHALL OPEN LEFT (COUNTER-CLOCKWISE), WITH MECHANICAL JOINT CONNECTION TO 6" DUCTILE IRON OUTSIDE DIAMETER PIPE WITH 4' MIN. COVER.
3. ALL FIRE HYDRANTS SHALL BE PAINTED WITH TWO COATS OF CHROME YELLOW.
4. ALL FIRE HYDRANTS SHALL MEET THE REQUIREMENTS OF AMERICAN WATER WORKS ASSOCIATION STANDARD C502.
5. WRAP ALL AREAS WITH 10MIL PLASTIC BEFORE INSTALLATION OF CONCRETE THRUST BLOCKS.
6. A FIRE HYDRANT ASSEMBLY MUST BE LOCATED 10 FEET FROM THE END OF ANY DEAD END WATERLINE.
7. IN PAVED OR UNPAVED RIGHT-OF-WAY WITHOUT SIDEWALK, POUR A 3'X4.5'X6" CONCRETE COLLAR CENTERED ON FIRE HYDRANT. CONCRETE SHALL HAVE AN  $f'c = 3,000$  psi.
8. FIRE HYDRANT COLLARS SHALL BE INSTALLED AT 2" TO 6" ABOVE FINISHED OR EXISTING ROAD GRADE ON ALL UNPAVED ROADS.
9. FIRE PROTECTION FIRE HYDRANT'S ON PRIVATE PROPERTY TO FOLLOW STANDARD DRAWING CITY OF RIO RANCHO.
10. A MECHANICAL RESTRAINT SYSTEM SHALL BE UTILIZED ON FITTINGS AND PIPING FOR THRUST RESTRAINT. CONCRETE THRUST BLOCKING TO BE USED ONLY FOR SPECIAL CONDITIONS (SUCH AS, CAPS WHERE MAIN WILL BE EXTENDED IN THE FUTURE) OR AS SPECIFICALLY APPROVED BY CITY OF RIO RANCHO. DESIGN ENGINEER SHALL BE RESPONSIBLE FOR SIZING ALL CONCRETE THRUST BLOCKING AND RESTRAINT LENGTHS.
11. 3/4" CRUSHED STONE OR GRAVEL SHALL BE PLACED AROUND THE BOTTOM OF THE HYDRANT FOR A RADIUS OF AT LEAST 12" AND EXTEND AT LEAST 12" ABOVE THE OUTLET. DO NOT BLOCK WEEP HOLES. WRAP GRAVEL IN FILTER FABRIC.
12. IN PAVED RIGHT-OF-WAY WITH SIDEWALK, THE CONCRETE PAD AROUND THE FIRE HYDRANT SHALL HAVE THE FOLLOWING DIMENSIONS: 3' WIDE X 6" THICK X THE BUFFER LENGTH. CONCRETE SHALL HAVE AN  $f'c = 3,000$  psi.



City of Rio Rancho  
Department of Public Works

FIRE HYDRANT ASSEMBLY

DATE MODIFIED:

MARCH 2019

DWG. NO. W-15

APRIL 22, 2016