VALVE OPERATING NUT EXTENSION
SAN JUAN WATER DISTRICT

FABRICATION DETAIL

TO FINISHED SURFACE GRADE

12" +/-

6" +/-

AWWA WRENCH NUT
(SEE NOTE 1)

FINGER HOLES

STEADYING PLATE

1" SCHEDULE 80
STEEL TUBE

1/4" WELD

VALVE KEY
1/4" PLATE

1/4" WELD (FIELD MEASUREMENT)

AWWA WRENCH NUT ON VALVE

VALVE STEM

2-1/8" SQUARE

NOTES:

1. WRENCH NUT, AND VALVE KEY, MEETING AWWA - C500.

2. CLEAN AND PREP METAL SURFACES AND COAT ENTIRE ASSEMBLY WITH FUSION EPOXY OR POWDER COAT COATING AFTER FABRICATION.

3. PEEN TOP OF SHAFT TO SECURE 2" AWWA WRENCH NUT TO SHAFT.

4. EXTENSION SHALL BE REQUIRED WHEN THE GATE VALVE OPERATING NUT IS 36" OR MORE BELOW THE FINAL GRADE SURFACE.

5. STEADYING PLATE SHALL BE 1/4" PLATE STEEL, DIAMETER EQUAL TO 1/2" DIA. OF VALVE BOX EXTENSION MINUS 1/8", WITH TWO 1-1/8" DIAMETER FINGER HOLES PLACED 180-DEG OPPOSITE.

6. APPLY SMALL AMOUNTS OF DIE SILICONE TO VALVE KEY SQUARE PRIOR TO INSTALLATION ONTO VALVE NUT.

7. PLATE STEEL SHALL BE ASTM A36. TUBE STEEL SHALL BE ASTM A53 GRADE B. WELDING SHALL CONFORM TO AWS CODE FOR ARC AND GAS WELDING AND WELDER SHALL BE CERTIFIED.

2" SQ. WRENCH NUT
(NOTE 1)

STEADYING PLATE 7
1/2" O.D. X 1/4"
PLATE STEEL

1" SCH 80
STEEL TUBE

2" SQ. VALVE KEY
(NOTE 1)

LENGTH VARIES
(SEE DETAIL THIS SHEET)