



**KEYNOTES:**

- A. EXTEND 2" OPERATOR NUT TO 18" FROM FINISHED GRADE WHEN VALVE NUT IS 60" OR DEEPER FROM FINISHED GRADE.
- B. VALVE BOX PER DETAIL 402.
- C. 2" SQUARE OPERATOR NUT.
- D. 1" MINIMUM SOLID STOCK A36 STEEL (SQUARE). VALVE OPERATOR EXTENSION SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.
- E. 6" SDR 35 PVC D3034 PIPE SPACER. LENGTH AS NECESSARY.
- F. ROCK GUARD. 1/8" STEEL PLATE WELDED TO SOLID SHAFT. GUARD SHALL BE 3/8" SMALLER THAN INSIDE DIAMETER OF PIPE SPACER.
- G. SECONDARY ROCK GUARD IS REQUIRED IF DISTANCE FROM UPPER ROCK GUARD TO VALVE NUT EXCEEDS 72". INSTALL SECONDARY GUARD HALFWAY BETWEEN UPPER GUARD AND VALVE NUT.
- H. 2-1/2" X 2-1/2" X 3/8" STEEL FLAT BAR.
- I. 3"X3" X 3/8" X 2" LONG STEEL SQUARE TUBE.



**TUALATIN VALLEY**  
WATER DISTRICT

DESIGNED: MBA

APPROVED: NWA

SCALE: NONE

**VALVE OPERATOR  
EXTENSION**

DATE: 11/2019

DETAIL

**403**