

3" SERVICE METER AND PRESSURE REDUCING VALVE VAULT:

METER AND VALVE SIZE SHALL BE DETERMINED BY DESIGN FLOW. DESIGN FLOW SHALL BE BETWEEN 20% AND 80% OF PRESSURE REDUCING VALVE MAXIMUM FLOW AS PUBLISHED BY MANUFACTURER. ALL MATERIALS SHALL BE RATED FOR 200 PSI WORKING PRESSURE MINIMUM UNLESS SPECIFICALLY APPROVED BY THE CITY OF SPARKS. THE MAINLINE CONNECTION, METER VAULT, AND ALL PIPELINE BETWEEN THE CONNECTION AND VAULT MUST BE INSPECTED BY THE CITY OF SPARKS PRIOR TO SERVICE.

- ① 3" PRESSURE CLASS 250 DUCTILE IRON FLANGE PIPE. BURIED PIPE SHALL BE POLYETHYLENE ENCASED (PURPLE COLOR).
- ② 3" FLANGED CLA-VAL MODEL 92-01 COMBINATION PRESSURE REDUCING & PRESSURE SUSTAINING VALVE OR APPROVED EQUAL. SUBMIT FOR APPROVAL.
- ③ 3" BADGER RECORDALL TURBO METER WITH INTEGRAL STRAINER, FLANGED, RATED FOR RECLAIMED WATER, PURPLE COLORED REGISTER AND STAMPED "RECLAIMED". TO BE SUPPLIED BY THE CITY OF SPARKS, INSTALLED BY CONTRACTOR.
- ④ PIT MOUNT ORION REMOTE TRANSMITTER. MOUNT ON VAULT WALL, 6" BELOW LID AT LID JOINT.
- ⑤ DIRECT TAP DUCTILE IRON PIPE - $\frac{1}{4}$ " TAP, CLOSE NIPPLE, $\frac{1}{4}$ " ISOLATION BALL VALVE, $\frac{1}{4}$ " SNUBBER, LIQUID FILLED PRESSURE GAUGE PER SPECIFICATIONS, 0-200 PSI.
- ⑥ DIRECT TAP DUCTILE IRON PIPE - $\frac{1}{4}$ " TAP, CLOSE NIPPLE, $\frac{1}{4}$ " ISOLATION BALL VALVE, CLOSE NIPPLE, $\frac{1}{4}$ " TEE, CLOSE NIPPLE, $\frac{1}{4}$ " ISOLATION BALL VALVE, $\frac{1}{4}$ " SNUBBER, LIQUID FILLED PRESSURE GAUGE PER SPECIFICATIONS, 0-150 PSI, SAMPLE TAP WITH CLOSE NIPPLE, $\frac{1}{4}$ " ISOLATION BALL VALVE, CLOSE NIPPLE, 90° ELBOW POINTED DOWN.
- ⑦ JENSEN PRECAST UTILITY BOX, MODEL 4686 WITH SUMP KNOCK OUT. DESIGNED FOR INCIDENTAL H/20 TRAFFIC LOADING. INSTALL RISERS AS NECESSARY TO MEET GRADE REQUIREMENTS. GROUT RISERS INSIDE VAULT. WRAP EXTERIOR OF VAULT JOINTS WITH J-K POLYSOURCE M-860 EXTERNAL JOINT WRAP OR EQUAL. INSTALL LADDER AND BILCO LADDER-UP SAFETY POST.
- ⑧ JENSEN 4878AT, TORSION ASSISTED COVER - EPOXY COATED PURPLE & LABELED "EFFLUENT" OR "RECLAIMED WATER", DESIGNED FOR INCIDENTAL H/20 TRAFFIC LOADING. NOT SUITABLE FOR FULL TRAFFIC LOCATIONS.
- ⑨ DIRECT TAP DUCTILE IRON PIPE - $\frac{3}{4}$ " TAP, CLOSE NIPPLE, $\frac{3}{4}$ " ISOLATION BALL VALVE, NIPPLE, $\frac{3}{4}$ " CLA-VAL MODEL 55F PRESSURE RELIEF VALVE (OR APPROVED EQUAL) SET TO RELEASE AT 100 PSI (OR IRRIGATION SYSTEM OPERATING PRESSURE) SUBMIT FOR APPROVAL, CLOSE NIPPLE, 90° ELBOW POINTED DOWN. PROVIDE PIPE SUPPORT FOR PRESSURE RELIEF VALVE.
- ⑩ DIRECT TAP DUCTILE IRON PIPE - $\frac{1}{2}$ " TAP, CLOSE NIPPLE, $\frac{1}{2}$ " ISOLATION BALL VALVE, CLOSE NIPPLE, 90° ELBOW POINTED DOWN (MANUAL DRAIN).
- ⑪ PIPE SUPPORT.

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION

DRAWING No.



3" RECLAIMED WATER PRV
& METER VAULT - NOTES

S-509B

APPROVED BY: JE DATE: 1/2020