

1-1/2" AND 2" 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 2" POLYETHYLENE SUPPLY PIPING WITH REQUIRED FITTINGS, PURPLE STRIPED, RATED FOR NORMAL WORKING PRESSURE OF 200 PSI (DR 9). PROVIDE SURGE ALLOWANCE TO 300 PSI.
- ② 2" RIGID COPPER PIPE RATED FOR NORMAL WORKING PRESSURE OF 200 PSI (PROVIDE SURGE ALLOWANCE TO 300 PSI), DIRECT BURY USE WITH REQUIRED FITTINGS.
- ③ 1-1/2" OR 2" THREADED CLA-VAL MODEL 90-01 PRESSURE REDUCING VALVE OR APPROVED EQUAL. SUBMIT FOR APPROVAL.
- ④ 1-1/2" OR 2" BADGER RECORDALL TURBO METER WITH INTEGRAL STRAINER, ELLIPTICAL 2-BOLT FLANGES, RATED FOR RECLAIMED WATER, PURPLE COLORED REGISTER AND STAMPED "RECLAIMED". TO BE SUPPLIED BY THE CITY OF SPARKS, INSTALLED BY CONTRACTOR.
- ⑤ PIT MOUNT ORION REMOTE TRANSMITTER. MOUNT ON VAULT WALL, 6" BELOW LID AT LID JOINT.
- ⑥ 1-1/2" OR 2" CROSS.
- ⑦ REDUCE TO 1/4", CLOSE NIPPLE, 1/4" ISOLATION BALL VALVE, 1/4" SNUBBER, LIQUID FILLED PRESSURE GAUGE PER SPECIFICATIONS, 0-200 PSI.
- ⑧ REDUCE TO 1/4", CLOSE NIPPLE, 1/4" ISOLATION BALL VALVE, CLOSE NIPPLE, 1/4" TEE, CLOSE NIPPLE, 1/4" ISOLATION BALL VALVE, 1/4" SNUBBER, LIQUID FILLED PRESSURE GAUGE PER SPECIFICATIONS, 0-150 PSI, SAMPLE TAP WITH CLOSE NIPPLE, 1/4" ISOLATION BALL VALVE, CLOSE NIPPLE, 90° ELBOW POINTED DOWN.
- ⑨ VAULT PIPING: RIGID COPPER PIPE, 200 PSI. (OR CITY OF SPARKS APPROVED ALTERNATE)
- ⑩ 1-1/2" OR 2" BRONZE GATE VALVE, THREADED, NON-RISING STEM, SOLID WEDGE GATE VALVE, HANDWHEEL OPERATOR, 200 PSI WORKING PRESSURE.
- ⑪ 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.
- ⑫ 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.

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION

DRAWING No.



1-1/2" & 2" RECLAIMED
WATER PRV & METER VAULT

S-508B

APPROVED BY: JE DATE: 1/2020