SEPTIC SYSTEM DESIGN
GRADING AND UTILITY PLAN

FALLON
CHURCHILL COUNTY
NEVADA

ITEM
QUANTITY
DESCRIPTION

1
1
SANITARY SEWER CLEANOUT (DET 1/C4.0)

2
1
1,500 GAL SEPTIC TANK (JENSEN PRECAST JP-1500 OR APPROVED EQUAL (PER DETAIL 3/C4.0)

3
1
PACKAGE LIFT STATION/DOSING TANK (ZOELLER QLS OR APPROVED EQUAL (DET 2/C4.0)

SEE NOTE 1, THIS SHEET

4
17 LF
4" SOLID PVC PIPE S = 2.0% MIN

5
112 LF
1" PERFORATED PVC PIPE

6
15 LF
3" PVC MANIFOLD

7
2
MONITORING PORT

8
86 LF
2" SOLID PVC PIPE

9
2
90° 2" PVC ELBOW

NOTES:

1. LIFT STATION SHALL MEET THE FOLLOWING CRITERIA:
   - DUTY POINT: 66 GPM AT 22 FT TDH
   - TOTAL VOLUME: OPERATIONAL & EMERGENCY RESERVE STORAGE
     - OPERATIONAL STORAGE: 145 GAL BETWEEN PUMP OFF AND PUMP ON LEVELS
     - EMERGENCY RESERVE STORAGE: 260 GAL MIN BETWEEN PUMP ON LEVEL AND RIM

2. PROVIDE MEANS TO PREVENT INGRESS BY VEHICLES TO ABSORPTION BED (BOLLARDS, FENCING, OR LANDSCAPE BOULDERS). COORDINATE WITH OWNER.

3. CONTRACTOR TO SUBMIT PLAN FOR EXISTING SEPTIC TANK REMOVAL OR ABANDONMENT TO ENGINEER FOR APPROVAL:
   - SEPTIC TANK TO BE PUMPED, DEMOLISHED, REMOVED, AND EXCAVATED SITE TO BE BACKFILLED; OR
   - SEPTIC TANK TO BE PUMPED, LID CRUSHED, AND FILLED WITH SAND, GRAVEL, OR OTHER MATERIAL APPROVED BY THE ENGINEER

4. CONNECT TOTE, 2" PIEP ASSIGNED # OF COVER
   - LID TO BE REMOVED TO ALLOW ACCESS TO TOP OF TOTE

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2022-02-15
C2.0

DRAWN BY:
DESIGNED BY:
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PAGE 1
JOB NO.
1261-300
SHEET: 1
SCALE: 1"=20'

1/4"=1'-0" (HORIZONTAL)

1/4"=1'-0" (VERTICAL)
CONNECT TO EX. SS PIPE
ASSUMED 30" OF COVER
CONTRACTOR TO FIELD VERIFY
REPORT DISCREPENCIES TO ENGINEER
ASSUMED IE: 3910.25
SEPTIC TANK INLET
IE: 3909.76
4" SS PVC
S = 2% MIN
SEPTIC TANK OUTLET
IE: 3909.51
4" SS PVC
S = 2% MIN
DOSING TANK INLET
IE: 3909.41
1500 GAL SEPTIC TANK
PER DETAIL 3/C4.0
2" SCH 80 PVC
90° HORIZONTAL ELBOW
2" SCH 80 PVC
90° HORIZONTAL ELBOW
2" SCH 80 PVC
45° VERTICAL ELBOW
2" SCH 80 PVC
45° VERTICAL ELBOW
3" SCH 80 PVC
MANIFOLD
1" SCH 80 PVC
PERFORATED LATERAL
TYP.

MOUNDED LEACH FIELD
SEE SECTION A-A

ADD RISERS TO MATCH EX.
0+50
1+50
20'

ENGINEERED SAND FILTER MATERIAL (SEE NOTE 21/C0.1)
6"
EX. SANDY SILT MATERIAL (W/PERC RATE OF 20 MIN/INCH)
3.5' DEPTH
EX. CLAY MATERIAL
3" SCH 80 PVC MANIFOLD
1" SCH 80 PVC LATERALS
2" SCH 80 PVC
3:1 MAX TO EG
3" SCH 80 PVC

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FALLON PAIUTE-SHOSHONE TRIBE
SEPTIC SYSTEM DESIGN
CROSS SECTION AND PROFILE
FALLON
CHURCHILL COUNTY
NEVADA

SECTION A-A

PIPELINE PROFILE
HORIZONTAL SCALE 1"=2'
VERTICAL SCALE 1"=5'
**SEWER LATERAL CLEANOUT**

N.T.S.

**LIFT STATION/DOSING TANK**

N.T.S.

**JENSEN 1500 GALLON SEPTIC**

N.T.S.

NOTES:

1. Cleanouts to be placed at every angle greater than, or equal to, 45°, every 150' of lateral, and within 5' of building. Cleanouts installed at angles shall be located on the upstream side of the angle. Cleanouts shall be located as close as practical to the angle.

LOW WATER LEVEL

PUMPS OFF

HIGH WATER LEVEL

PUMPS ON

FLOW

NOTE: ALL JOINTS AND CONNECTIONS SHALL BE WATERPROOF.

PVC ALL-BELL WYE

4" x 4"

4" PVC PIPE, LENGTH AS REQUIRED, SET PLUMB

8" MIN.

4" PVC COUPLING

FIBER REINFORCED CONCRETE COLLAR

4" LATERAL

45° ELBOW

THREADED CAP

CONCRETE TUBE, SET TIGHT WITH SURROUNDING SURFACE

GLAND, "M" NUT

4" PVC ALL-BELL TYPE 8-6.13

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