NOTES:
1. MANHOLES IN ROADWAYS REQUIRE CONC. COLLAR. TOP OF MANHOLE CONE IN UNIMPROVED AREAS SHALL BE SET 6 TO 12 INCHES ABOVE FINISH GRADE WITH NO GRADE RINGS. (NO CONC. COLLAR REQ'D)
2. MANHOLE LID, RING AND CONCRETE COLLAR TO BE CENTERED ON MANHOLE OPENING AND SET 1/4 INCH BELOW TOP OF ASPHALT.
3. 5' DIA. MANHOLES REQUIRED FOR ALL SEWER LINES OVER 12' DIA. OVER 12' DEEP MANHOLE OR 3 OR MORE IN COMING LINES.
4. NO SEWER LATERALS SHALL BE INSTALLED IN MANHOLES.
5. OUTLET PIPE INVERT TO BE 0.05 FEET (MINIMUM) LOWER THAN INLET PIPES IN ALL MANHOLES.
6. NO WOOD OR PVC SHIMS WILL BE ALLOWED BETWEEN LID RING AND ADJUSTING RINGS OR MANHOLE.
7. NOT USED.
8. MANHOLES IN UNIMPROVED AREAS REQUIRE AN ORANGE CARBONITE CRM 66 INCH UTILITY MARKER BE PLACED WITHIN 4 FEET OF THE MANHOLE WITH A STICKER INDICATING SEWER MANHOLE.
9. DROP MANHOLES AND ALL OTHER MANHOLES WITH PRESSURE LINE OF ANY SIZE OR GRAVITY LINES 15 INCH DIAMETER AND ABOVE SHALL BE CORROSION RESISTANT, ARMOR ROCK (PRE-CAST), OR SPRAYROQ (FIELD-APPLIED), 125 MILS THICK, O.A.E.

SECTION

TYPICAL MANHOLE FOR SANITARY SEWER

SECTION

EXISTING SEWER MAINHOLES CONNECTION
NOTES:

1. PIPE DROPS; ONLY ONE DROP PIPE IS ALLOWED INSIDE THE MANHOLE. SIZE THE DROP PIPE TO BE SAME DIAMETER AS SEWER PIPE DISCHARGING INTO MANHOLE.

2. MATCH POINT: MATCH THE TOP OF THE PIPES.

3. ANCHOR: IF THE DROP IS MORE THAN 18 INCHES, ANCHOR THE RISER TO THE WALL EVERY 36 INCHES. USE CONCRETE ANCHORS 1-1/2" THREADED RODS, AM PIPE HANGERS w/ 1/2" COUPLING & POLY PROYLENE COLLAR. ALL STEEL SHALL BE 304 STAINLESS.

4. NOT USED.

5. ALL MANHOLES WITH SEWER LINES 15" DIAMETER OR GREATER NEED TO HAVE CONCRETE ACID RESISTANT COATING ARMOR ROCK (PRE-CAST), OR SPRAYROG (FIELD-APPLIED) 125 MILS THICK, O.A.E.

PLAN

SANITARY SEWER MANHOLE 5" DIA. MIN. SEE DETAIL S2

CRUSHED STONE 3/8"-5/8" MINUS ENCASEMENT

JOINT

MATCH TOP OF PIPES

CRUSHED STONE 3/8"-5/8" MINUS ENCASEMENT

CUT OPENING IN PRECAST MH BARREL AND SEAL WITH NON-SHRINK MORTAR (TYPICAL)

CRUSHED STONE 3/8"-5/8" MINUS ENCASEMENT

JOINT

TEE & WYE

WYE

90' ELBOW

MATCH TOP OF PIPES

CRUSHED STONE 3/8"-5/8" MINUS ENCASEMENT

PLACE AGAINST UNDISTURBED MATERIAL OR SHEETING

ANCHOR TO SIDE OF MANHOLE SEE NOTE 3

ALTERNATE 1

SHALLOW DROP (TYP) < 5'

4' DIA. MANHOLE REQ'D

ALTERNATE 2

DEEP DROP (TYP) ≥ 5'

5' DIA. MANHOLE REQ'D

SECTION

S3

DROP MANHOLE
CONSTRUCTION NOTES:

1. NEW PVC SDR-35 GRAVITY SEWER LINE GOING INTO LIFT STATION. (LINE SIZE PER PLANS)
2. NEW PVC C900 PRESSURE SEWER PUMPBACK LINE GOING FROM LIFT STATION. (LINE SIZE PER PLANS)
3. INSTALL 16" WIDE x 6' HIGH DOUBLE SWING GATE WITH 3 STRANDS OF BARBED WIRE PER UDOT STANDARD DRAWING FG-6.
4. INSTALL 6' TALL CHAIN LINK FENCE WITH 3 STRANDS OF BARBED WIRE ON ARMS PER UDOT STANDARD DRAWING FG-6.
5. INSTALL 3" MINUS DRAIN ROCK 6" THICK IN THE ENTIRE FENCED IN AREA.
6. INSTALL 1" WATER LINE INTO BUILDING FOR PER ADOPTED PLUMBING CODE.
7. INSTALL NEW FROST FREE HYDRANT AND DRAIN ROCK INCLUDING 1" COPPER WATER LINE FROM METER BOX.
8. LIFT STATION ENVELOPE PER ENGINEERED CONSTRUCTION PLANS FOR ALL BUILDINGS, CONCRETE, UTILITY METERS, ELECTRICAL EQUIPMENT, WETWELL, ETC.
9. 2% MIN. SLOPE FROM TOP OF SLAB DOWN TO SURROUNDING GRADE.
10. LIFT STATION WET WELL.
11. SETBACKS PER ZONING ORDINANCE, 20' MIN. CLEARANCE FROM FENCE.

NOTES:

1. THIS DETAIL DRAWING DOES NOT TAKE THE PLACE OF STAMPED ENGINEERING DRAWINGS FOR THE LIFT STATION SITE PLAN. THE DIMENSIONS SHOWN ON THIS DRAWING ARE PROVIDED ONLY TO SHOW THE MINIMUM CLEARANCES THAT MUST BE MET.
2. THE FOLLOWING UTILITIES MUST BE INSTALLED TO THE LIFT STATION SITE: CULINARY WATER, FIBER INTERNET, IF AVAILABLE, POWER, GAS
3. DORSET SCADA SYSTEM IS REQUIRED FOR REMOTE MONITORING OF THE LIFT STATION.

PLAN VIEW

N.T.S.

SEWER LIFT STATION
SITE PLAN
CONSTRUCTION NOTES:
1. 24" SQUARE CONCRETE COLLAR 6" THICK.
2. TOP OF VALVE BOX AND CONCRETE COLLAR TO BE 1/4" BELOW FINAL STREET GRADE. REINFORCEMENT #4 BAR 16 8" w/ FIBERS (TYP.)
3. IF TOP OF VALVE NUT IS MORE THAN 4" DEEP THEN VALVE STEM EXTENSION IS REQUIRED PER DETAIL.
4. CLEAN OUT PIPE SIZE & MATERIAL SHALL BE THE SAME AS THE PRESSURE SEWER MAIN.
5. PIPE METAL CAP w/ LETTERS "SEWER"
6. 45° BEND REDO w/ RESTRAINT JOINTS (MEGALUG O.A.E.)
7. GATE VALVE (TYP.) w/ RESTRAINT JOINTS (MEGALUG O.A.E.)
8. TRENCH BACKFILL
9. CAST IRON SCREW TYPE VALVE BOX
10. PAVEMENT STRUCTURE AS SPECIFIED BY THE DESIGN AGENCY
11. TRACE-OF-FLEX MARKER w/ TERMINAL POINTS BY CARBONITE - (ORANGE COLOR)
12. 12 GA. INSULATED COPPER LOCATE WIRE DUCT TAPE TO TOP OF PIPE AT 10' INTERVALS
13. PRESSURE SEWER MAIN
14. SCH. 40 PVC PIPE (SIZE VARIES)
15. GATE VALVE w/ 2" VALVE WRENCH NUT
16. PVC CAP
17. TAPPING SADDLE PER SPECS.
18. IN-LINE ISOLATION VALVE (SEE NOTES)
19. CHECK VALVE BY CUSTOMER AT TIME OF CONNECTION.

PRESSURE SEWER LATERAL

PRESSURE SEWER CLEAN-OUT DETAIL

PAVED AREA LOCATE WIRE TERMINATION

UNPAVED AREA LOCATOR POST DETAIL

NOTES:
1. LOCATOR POSTS TO BE PLACED AT 1000' MAX. SPACING NEXT TO IN-LINE VALVES AND BENDS ON PRESSURE SEWER MAIN.
2. PRESSURE SEWER CLEAN-OUT TO BE PLACED AT 1000 FT MAX. SPACING NEXT TO END OF PIPES OR IN-LINE VALVES.
3. IN-LINE VALVES TO BE PLACED EVERY 2000' MAX. ON PRESSURE SEWER LINES.
4. IN PAVED AREAS LOCATE WIRE SHALL BE TERMINATED IN THE VALVE CANS OF THE IN-LINE VALVES PER DETAIL.
CONSTRUCTION NOTES:

1. PETERSON SERIES 142 HAND TIGHTENING TEST PLUG TO BE REMOVED WHEN PUMP STATION IS ELIMINATED.

2. FLOW CHANNEL

3. 4' DIA. SEWER MANHOLE

4. BURLAP SAND BAGS – TO BE REMOVED WHEN PUMP STATION IS ELIMINATED

5. FLOW CHANNEL TO PUMP STATION TO BE FILLED WITH GROUT WHEN PUMP STATION IS ELIMINATED.
NOTES:

1. PERMANENT ENDS OF SEWER MAIN SHALL HAVE A SEWER MANHOLE PER DETAIL S2.

2. THE DIAMETER OF ALL PIPE, FITTINGS AND CAP OF THE TEMPORARY SEWER CLEAN-OUT SHALL BE THE SAME DIAMETER OF THE SEWER MAIN LINE.

TEMPORARY SEWER MAIN CLEAN-OUT DETAIL

N.T.S.
NOTES:
1. SANITARY TANK HATCH SHALL BE OPW 269 4" DIA. SELF-CLOSING, FOOT OPERATIONAL AND/OR SPRING/WEIGHTED COVER, OR APPROVED EQUAL. OPENING SHALL BE FLUSH WITH TO BASE/GRADING OF CONTAINED AREA.

2. IF WATER SERVICE IS TO BE PROVIDED ALL STEPS SHALL BE TAKEN TO FOLLOW STATE & FEDERAL LAWS FOR PROPER USE OF CULINARY WATER AROUND OPEN WASTE RV DUMP STATIONS.

3. THE CITY RESERVES THE RIGHT TO VERIFY, APPROVE, OR DENY THE LOCATION OF ANY PROPOSED RV DUMP STATION DUE TO PROXIMITY TO A STORM WATER CATCH BASIN.

SIGN TO BE POSTED AT SEWER DUMP LOCATION TO READ AS FOLLOWS:
"Pursuant to the Cedar City Pretreatment Ordinance 30a-2.1 and 40 CFR 403.5, it is illegal to cause hazardous or harmful materials to enter the city sanitary sewer."

PLAN VIEW
N.T.S.

RV DUMP STATION DETAIL
N.T.S.