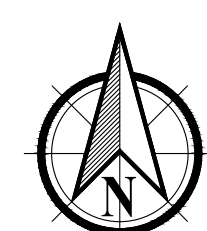
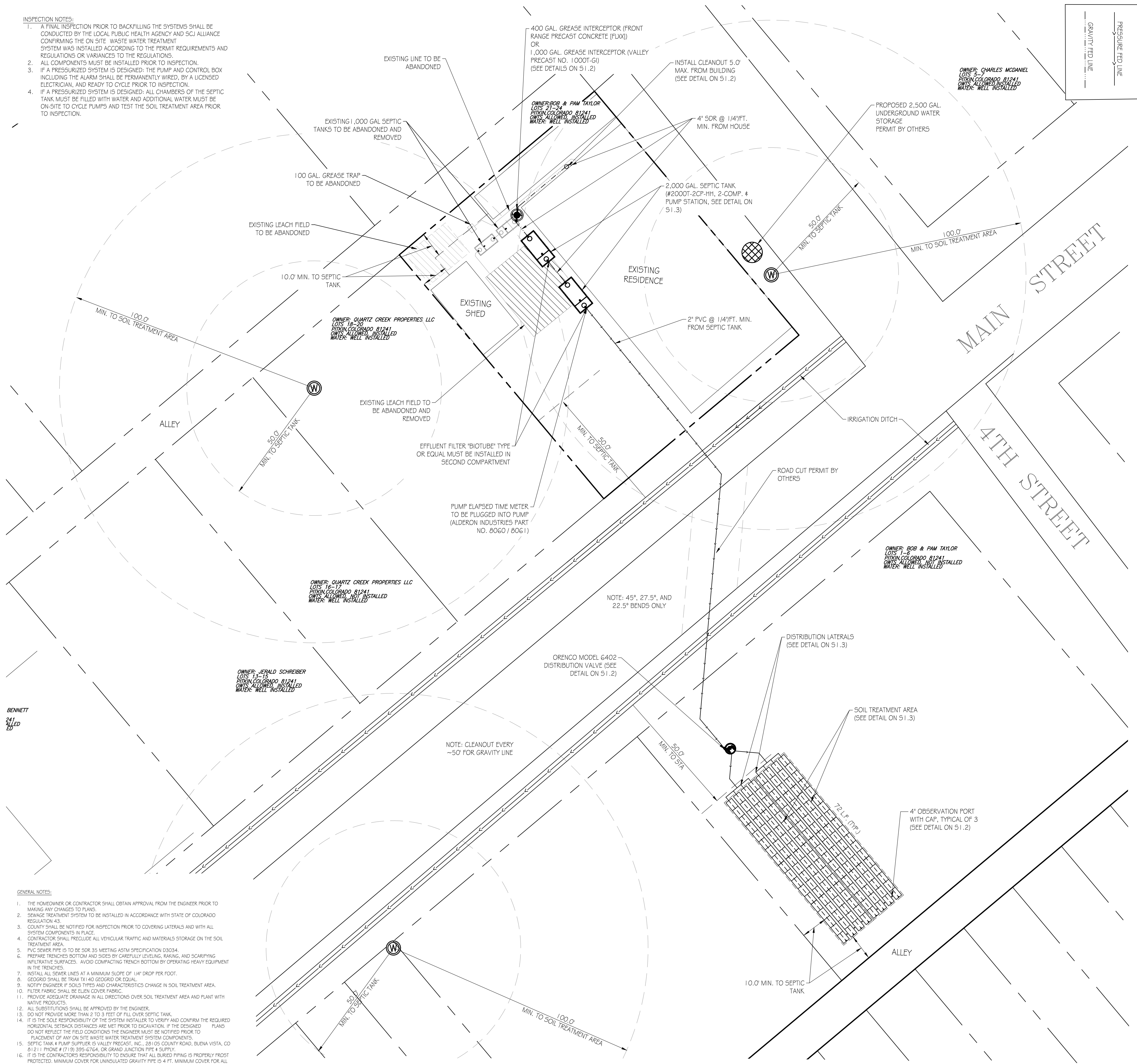


- INSPECTION NOTES:**
1. A FINAL INSPECTION PRIOR TO BACKFILLING THE SYSTEMS SHALL BE CONDUCTED BY THE LOCAL PUBLIC HEALTH AGENCY AND SCJ ALLIANCE CONFIRMING THE ON-SITE WASTE WATER TREATMENT SYSTEM WAS INSTALLED ACCORDING TO THE PERMIT REQUIREMENTS AND REGULATIONS OR VARIANCES TO THE REGULATIONS.
  2. ALL COMPONENTS MUST BE INSTALLED PRIOR TO INSPECTION.
  3. IF A PRESSURIZED SYSTEM IS DESIGNED, THE PUMP AND CONTROL BOX INCLUDING THE ALARM SHALL BE PERMANENTLY WIRED, BY A LICENSED ELECTRICIAN, AND READY TO CYCLE PRIOR TO INSPECTION.
  4. IF A PRESSURIZED SYSTEM IS DESIGNED, ALL CHAMBERS OF THE SEPTIC TANK MUST BE FILLED WITH WATER AND ADDITIONAL WATER MUST BE ON-SITE TO CYCLE PUMPS AND TEST THE SOIL TREATMENT AREA PRIOR TO INSPECTION.

- GENERAL NOTES:**
1. THE HOMEOWNER OR CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER PRIOR TO MAKING ANY CHANGES TO PLANS.
  2. SEWAGE TREATMENT SYSTEM TO BE INSTALLED IN ACCORDANCE WITH STATE OF COLORADO REGULATION 4.8.
  3. COUNTY SHALL BE NOTIFIED FOR INSPECTION PRIOR TO COVERING LATERALS AND WITH ALL SYSTEM COMPONENTS IN PLACE.
  4. CONTRACTOR SHALL PRECLUDE ALL VEHICULAR TRAFFIC AND MATERIALS STORAGE ON THE SOIL TREATMENT AREA.
  5. PVC SEWER PIPE IS TO BE SDR 35 MEETING ASTM SPECIFICATION D3034.
  6. PREPARE TRENCHES BOTTOM AND SIDES BY CAREFULLY EXCAVATING, RAKING, AND SCARPING INFILTRATIVE SURFACES. AVOID COMPACTING TRENCH BOTTOM BY OPERATING HEAVY EQUIPMENT IN THE TRENCHES.
  7. INSTALL ALL SEWER LINES AT A MINIMUM SLOPE OF 1/4" DROP PER FOOT.
  8. GEORGRID SHALL BE TRAX TX 40 GEORGRID OR EQUAL.
  9. NOTIFY ENGINEER IF SOIL TYPES AND CHARACTERISTICS CHANGE IN SOIL TREATMENT AREA.
  10. FILTER FABRIC SHALL BE ELIEN COVER FABRIC.
  11. PROVIDE ADEQUATE DRAINAGE IN ALL DIRECTIONS OVER SOIL TREATMENT AREA AND PLANT WITH NATIVE PLANTS.
  12. ALL SUBSTITUTIONS SHALL BE APPROVED BY THE ENGINEER.
  13. DO NOT PROVIDE MORE THAN 8 TO 9 FEET OF FILL OVER SEPTIC TANK.
  14. IT IS THE SOLE RESPONSIBILITY OF THE SYSTEM INSTALLER TO VERIFY AND CONFIRM THE REQUIRED HORIZONTAL SETBACK DISTANCES ARE MET PRIOR TO EXCAVATION. IF THE DESIGNED PLANS DO NOT REFLECT THE FIELD CONDITIONS THE ENGINEER MUST BE NOTIFIED PRIOR TO PLACEMENT OF ANY ON-SITE WASTE WATER TREATMENT SYSTEM COMPONENTS.
  15. SEPTIC TANK & PUMP SUPPLIER IS VALLEY PRECAST, INC., 28105 COUNTY ROAD, SUEVA VISTA, CO 81211. PHONE # (719) 395-6764, OR GRAND JUNCTION PIPE & SUPPLY.
  16. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT ALL BURIED PIPING IS PROPERLY FROST PROTECTED. MINIMUM COVER FOR UNINSULATED GRAVITY PIPE IS 4 FT. MINIMUM COVER FOR ALL UNINSULATED PRESSURE PIPE IS 7 FT.



**SANITATION PLAN**  
SCALE: 1" = 20.0'



**STATE OF COLORADO MINIMUM SETBACK REQUIREMENTS:**

**Table 7-1: Minimum Horizontal Distances in Feet Between Components of an OWTS and Water, Physical and Health Impact Features**

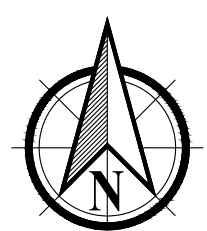
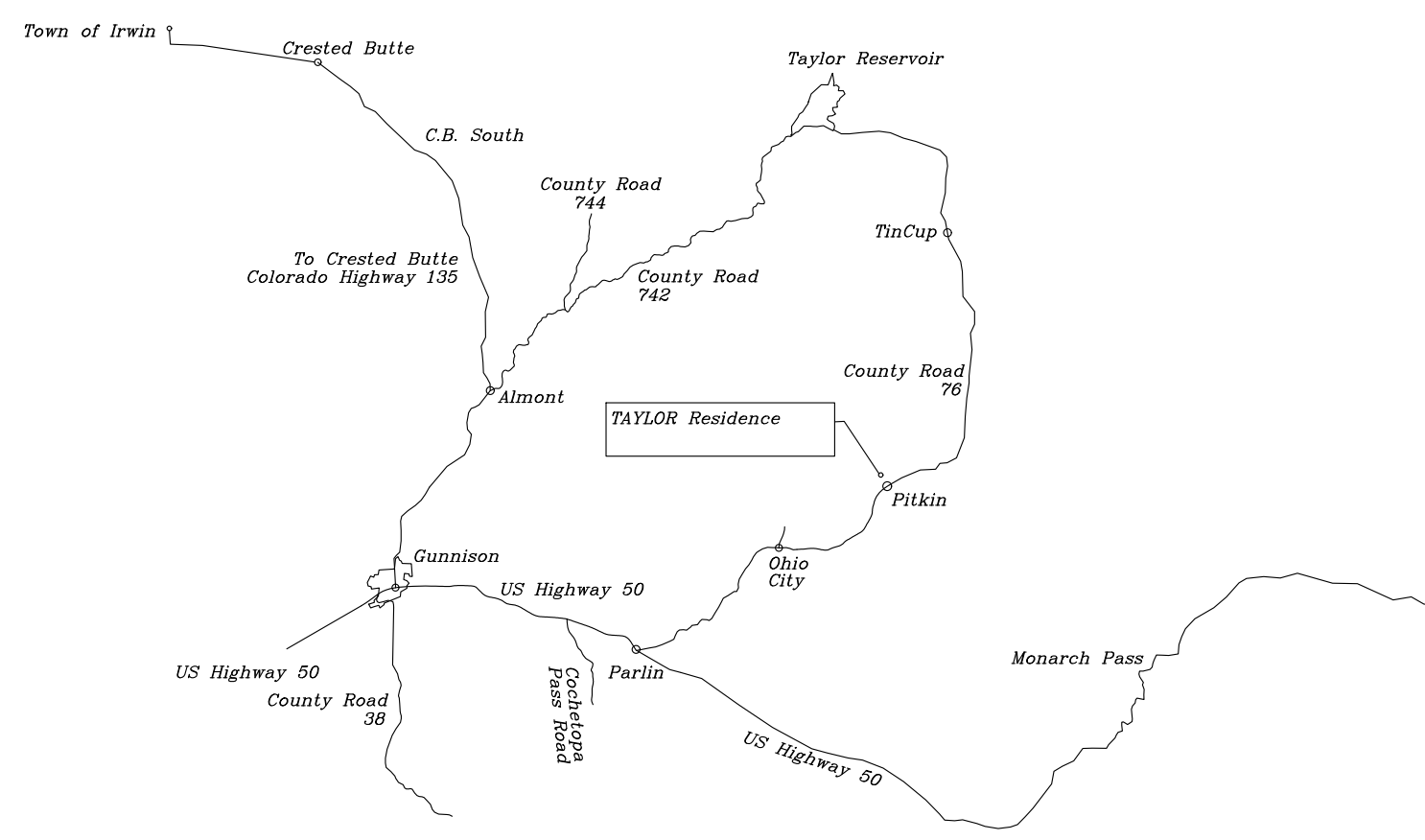
Component	Spring, Well, Suction Line, Potable Water Supply Cistern*	Potable Water Supply Line*	Structure with basement, space or footing drains	Structure without basement, space or footing drains	Property Line, Piped or Lined Irrigation Ditch, uplope curtain drain	Subsurface Drain, Intermittent Lateral, Drywell, Stormwater Structure	Lake, Water Course, Irrigation Ditch, Stream, Wetland	Dry Gulch, Cut Bank, Fill Area (from Creek)	Septic Tank, Higher Level Treatment Unit, Dosing Tank, Vault Privy
Septic Tank, Higher Level Treatment Unit, Dosing Tank, Vault Privy	50'	10'	5	5	10	10	100 (state is 50)	10	--
Building Sewer or Effluent Lines	50'	5'	0	0	10'	10'	50'	10'	--
STA Trench or Bed, Un-lined Sand Filter, Subsurface Dispersal System	100'	25'	20	10	10	25	100 (state is 50')	25	5
Lined Sand Filter	60	10'	15	10	10	10	100 (state is 25)	10	5
Lined Evapotranspiration Field	60	10'	15	15	10	10	100 (state is 25)	10	5
Un-lined Sand Filter in Soil with a Percolation Rate < 60 MPI, Un-lined or Partially Lined Evapotranspiration System, System not relying on STA for Treatment other than Aerosol	100	25'	15	15	10	25	100 (state is 25)	15	10
Pit Privy	100	50'	25	25	25	25	100 (state is 25')	25	N/A
System not relying on STA for dispersal	100'	10'	125'	125'	10	0	100 (state is 25')	10	10

**NOTE:** The minimum distances shown above shall be maintained between the OWTS components and the features described. Where soil, geological or other conditions warrant, greater distances may be required by the local board of health or by the Water Quality Control Commission pursuant to C.R.S. §25-8-206 and applicable regulations. For repair or replacement of existing OWTS where the distance to a nearby feature is less than the setback distances, a repaired OWTS shall not be closer to setback features than the existing OWTS, as reviewed and approved by the Department. Components that are not watertight should not extend into areas of the root system of nearby trees.

1. Includes potable wells, irrigation wells and monitoring wells set within a potable aquifer and infiltration galleries permitted as wells by the Division of Water Resources.
2. Crossings or encroachments may be permitted at the points as noted above provided that the water or wastewater conveyance pipe is encased for the minimum setback distance on each side of the crossing. A length of pipe with a minimum Schedule 40 rating of sufficient diameter to easily slide over and completely encase the conveyance shall be used. Rigid end caps of at least Schedule 40 rating shall be secured in a watertight fashion to the ends of the encasement pipe. A hole of sufficient size to accommodate the pipe shall be drilled in the lowest section of the rigid cap so that the conveyance pipe rests on the bottom of the encasement pipe. The area in which the pipe passes through the end caps shall be sealed with an approved underground sealant compatible with the piping used. Other methods of encasement that provide equal protection are allowed. These methods shall be reviewed and approved by the local public health agency.
3. Add eight feet additional distance for each 100 gallons per day of design flow between 1,000 and 2,000 gallons per day, unless it can be demonstrated by a professional engineer, certified by a hydrogeologist or the use of a barrier consisting of a minimum 10" PVC liner or equivalent, that contamination will be minimized. Flows greater than 2,000 gallons per day shall be hydrologically analyzed for flow, velocity, hydraulic head, and other pertinent characteristics as means of estimating the risk of contamination as part of the Division site assessment and permitting process.
4. All horizontal setbacks to a potable water supply system shall be met unless a variance by the Board of Examiners of Water Well Construction and Pump Installation Contractors is granted per section 15.2 of the Water Well Construction Rules, 2 CCR 402.2. Setback requirements which may necessitate a variance are found within section 10.2 or 11.4 of the Water Well Construction Rules, as applicable. The minimum horizontal setback that may be granted through a variance is 20 feet.
5. If the structure is not used as a habitable unit, the isolation may be reduced by the local board of health to no less than 50 feet.
6. Building sewer installations shall meet the design requirements of the Colorado Plumbing Code.

**ELIEN GSF 442 INSTALLATION GUIDELINES (COLORADO AS OF JAN. 2017):**

1. INSURE ALL COMPONENTS LEADING TO GSF SYSTEM ARE INSTALLED PROPERLY. SEPTIC TANK EFFLUENT FILTERS OR SCREENED EFFLUENT PUMPS ARE REQUIRED WITH THE GSF SYSTEM.
2. DETERMINE THE NUMBER OF GSF MODULES REQUIRED PER DESIGN.
3. PREPARE SITE. DO NOT INSTALL A SYSTEM IN SATURATED GROUND OR WET SOILS THAT ARE SMEARED DURING EXCAVATION. KEEP MACHINERY OFF INFILTRATIVE AREAS.
4. PLAN ALL DRAINAGE REQUIREMENTS ABOVE (UP-SLOPE) OF THE SYSTEM. SET SOIL GRADES TO ENSURE THAT STORM WATER DRAINAGE AND GROUND WATER IS DIVERTED AWAY FROM THE ABSORPTION AREA ONCE THE SYSTEM IS COMPLETE.
5. EXCAVATE THE BED ABSORPTION AREA: SCARIFY THE RECEIVING LAYER TO MAXIMIZE THE INTERFACE BETWEEN THE NATIVE SOIL AND SPECIFIED SAND.
6. MINIMIZE WALKING IN THE ABSORPTION AREA PRIOR TO PLACEMENT OF THE SPECIFIED SAND TO AVOID SOIL COMPACTION.
7. PLACE SPECIFIED SAND IN SIX (6) INCH LIFTS, STABILIZE BY FOOT, A HAND HELD TAMPING TOOL OR A PORTABLE VIBRATING COMPACTOR. THE STABILIZED HEIGHT BELOW THE GSF MODULE MUST BE LEVEL.
8. PLACE GSF MODULES WITH PAINTED STRIKE FACING UP, END TO END ON TOP OF THE SPECIFIED SAND ALONG THEIR 4 FOOT LENGTH.
9. A STANDARD 4-INCH PERFORATED PIPE, SDR 35 OR EQUAL, IS CENTERED ALONG THE MODULES 4-FOOT LENGTH. ORIFICES ARE SET AT THE 4 & 8 O'CLOCK POSITION.
10. ALL 4-INCH PIPES ARE SECURED WITH MANUFACTURERS SUPPLIED WIRE CLAMPS, ONE PER MODULE. (PRESSURE DISTRIBUTION SYSTEMS ONLY INSERT A PRESSURE PIPE (SIZE AND ORIFICES PER DESIGN) INTO THE STANDARD 4-INCH PERFORATED PIPE. THE PRESSURE PIPE ORIFICES ARE SET AT THE 12 O'CLOCK POSITION AS SHOWN ON THE PLANS. EACH PRESSURE LATERAL WILL HAVE A DRAIN HOLE AT THE 6 O'CLOCK POSITION. EACH PRESSURE LATERAL SHALL HAVE A CLEAN OUT AT THE END OF EACH MODULE.
11. COVER FABRIC SUBSTITUTIONS IS NOT ALLOWED. THE INSTALLER SHOULD LAY THE ELIEN PROVIDED GEOTEXTILE COVER FABRIC LENGTHWISE DOWN THE ROW, WITH THE FABRIC FITTED TO THE PERFORATED PIPE ON TOP OF THE GSF MODULES. FABRIC SHOULD BE NEITHER TOO LOOSE, NOR TOO TIGHT. THE CORRECT TENSION OF THE COVER FABRIC IS SET BY:
  - A. SPREADING THE COVER FABRIC OVER THE TOP OF THE MODULE AND DOWN BOTH SIDES OF THE MODULE WITH THE COVER FABRIC TENTED OVER THE TOP OF THE PERFORATED DISTRIBUTION PIPE.
  - B. PLACE OCCASIONAL SHOVELFULS OF SPECIFIED SAND DIRECTLY OVER THE PIPE AREA ALLOWING THE COVER FABRIC TO FORM A MOSTLY VERTICAL ORIENTATION ALONG THE SIDE OF THE PIPE. REPEAT THIS STEP MOVING DOWN THE PIPE.
12. PLACE 6-INCHES OF SPECIFIED SAND ALONG THE SIDES OF THE MODULE EDGE. A MINIMUM OF 6-INCHES OF SPECIFIED SAND IS PLACED AT THE BEGINNING AND END OF EACH ROW. A MINIMUM OF 12-INCHES OF SPECIFIED SAND IS PLACED BETWEEN MODULE ROWS.
13. CALL TO SCHEDULE THE REQUIRED INSPECTIONS.
14. COMPLETE BACKFILL WITH A MINIMUM OF 12-INCHES OF CLEAN POROUS FILL MEASURED FROM THE TOP OF THE MODULES. BACKFILL EXCEEDING 18-INCHES REQUIRES VENTING AT THE FAR END OF THE BED. USE WELL GRADED NATIVE SOIL FILL THAT IS CLEAN, POROUS AND DEVOID OF LARGE ROCKS. DO NOT USE WHEELED EQUIPMENT OVER THE SYSTEM.
15. DIVERT SURFACE RUNOFF FROM THE SYSTEM. FINISH GRADE TO PREVENT SURFACE PONDING. TOPSOIL AND SEED SYSTEM AREA TO PROTECT FROM EROSION.



**VICINITY MAP**  
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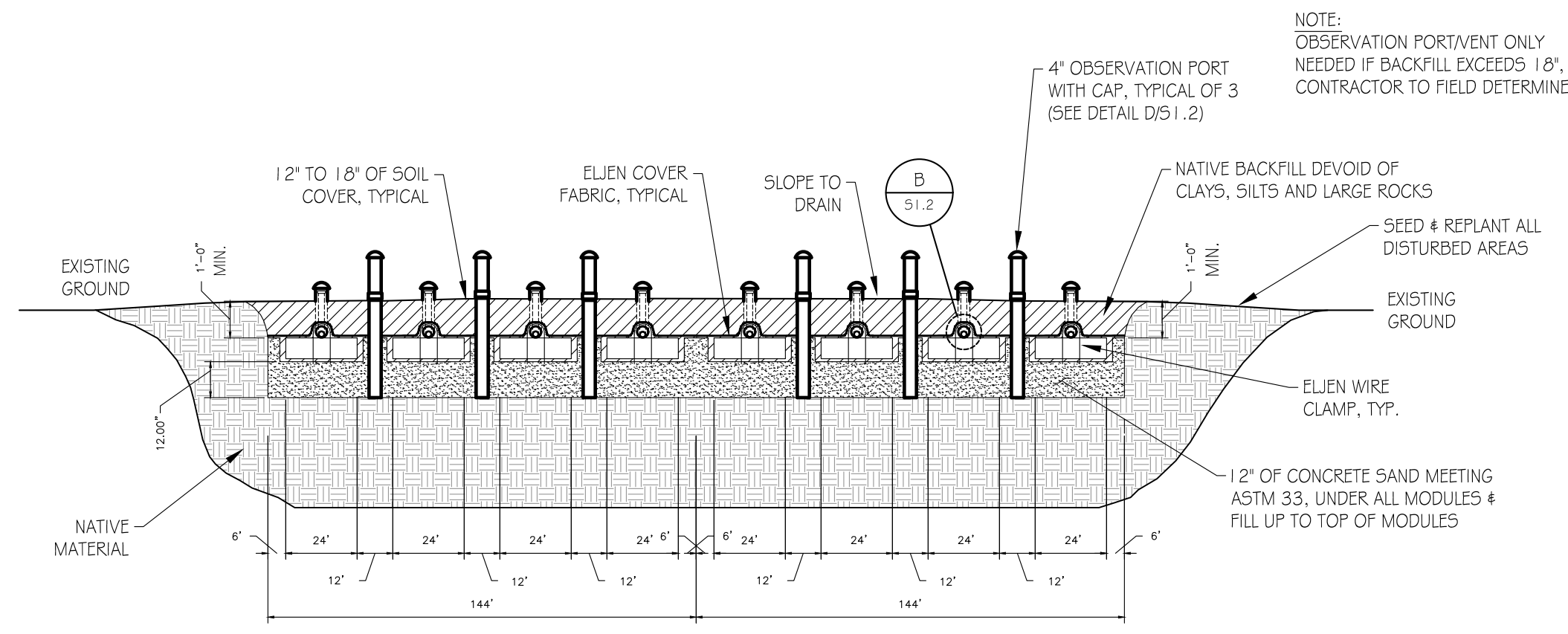
NO.	DATE	REVISIONS

**SCJ ALLIANCE**  
CONSULTING SERVICES  
400 NORTH MAIN STREET, GUNNISON, CO 81230  
P: 970.561.2699  
SCJALLIANCE.COM

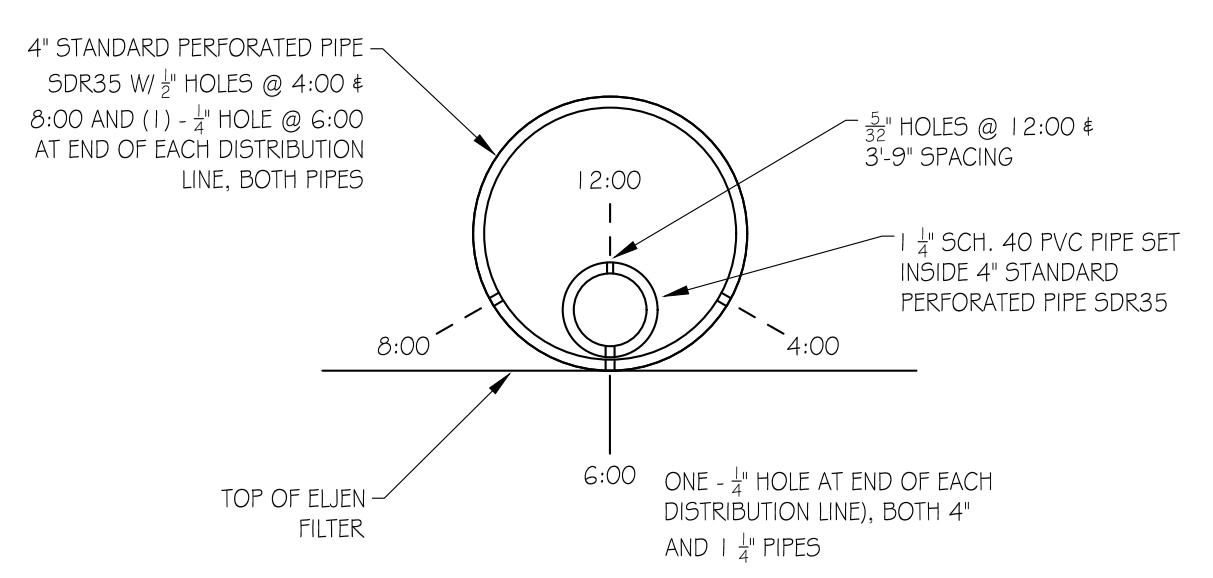
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PROJECT NAME:  
**TAYLOR RESIDENCE**  
329 MAIN STREET, PITKIN  
GUNNISON COUNTY, COLORADO

SHEET TITLE:  
SEAL:  
DESIGNER: CSF  
DRAWN BY: CSF  
APPROVED BY:  
DATE: OCTOBER 25, 2023  
JOB NO: 22-000619  
DRAWING NO: **S1.1**

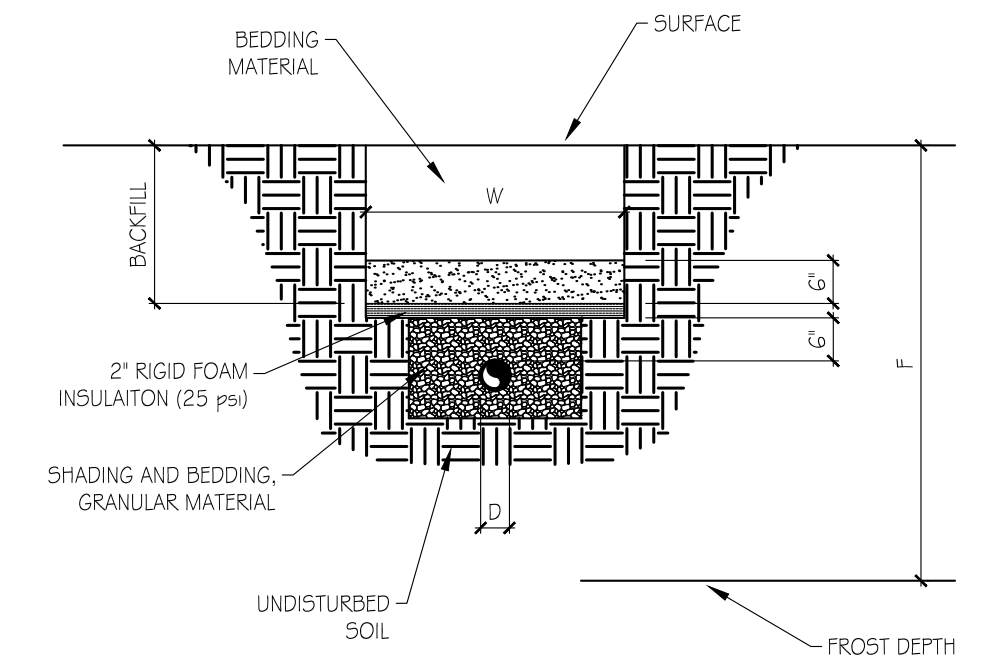
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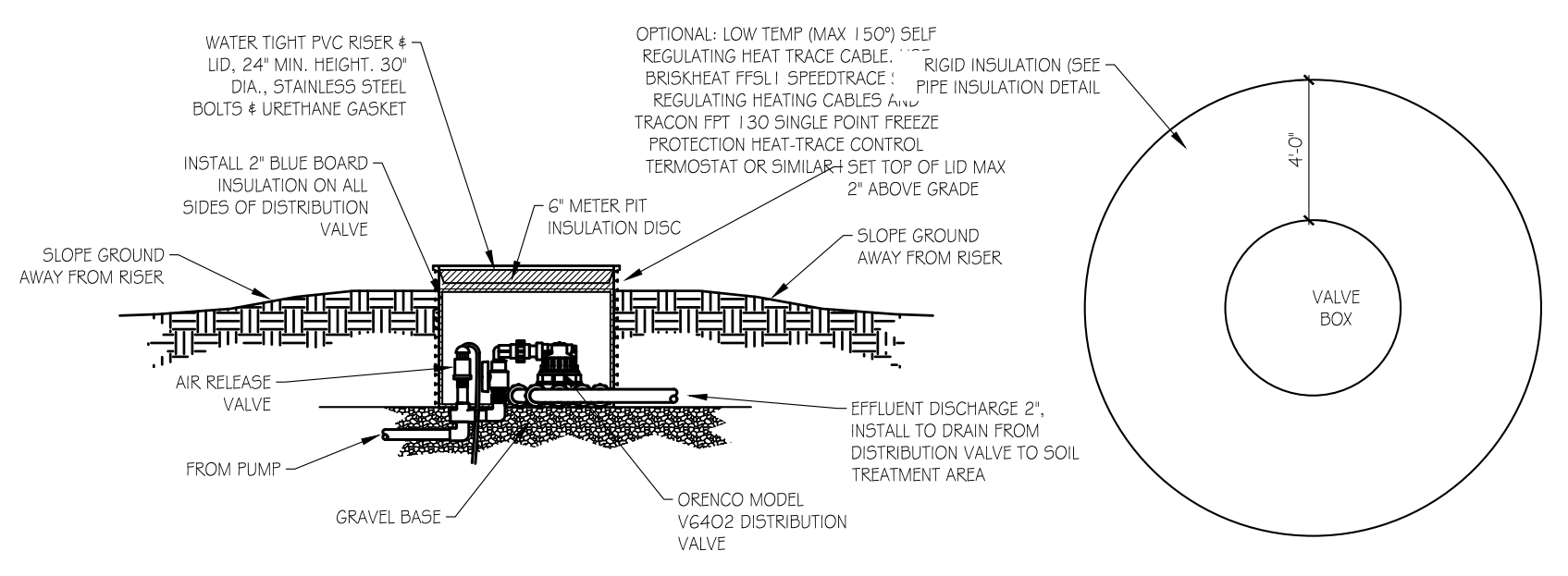
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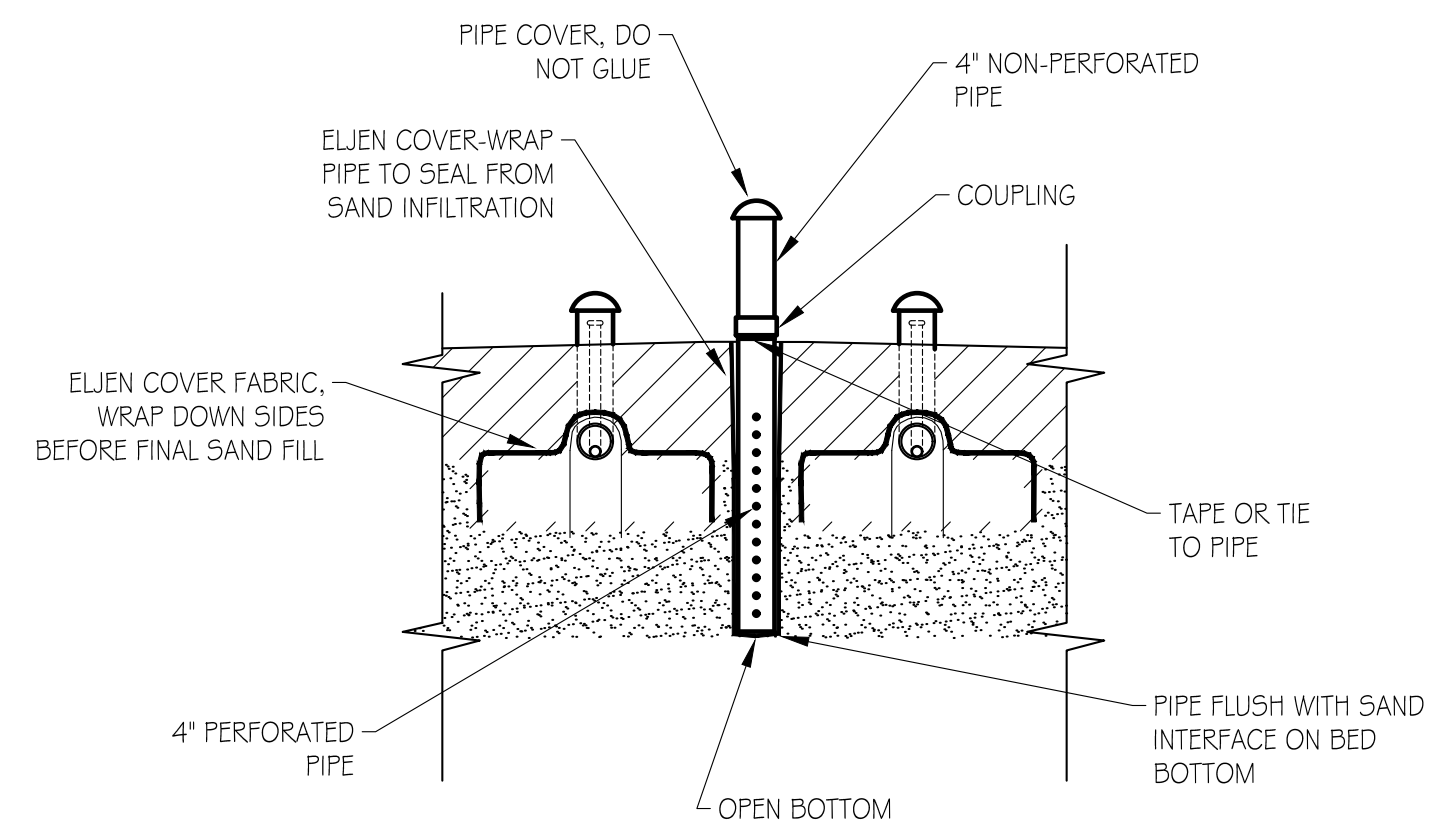
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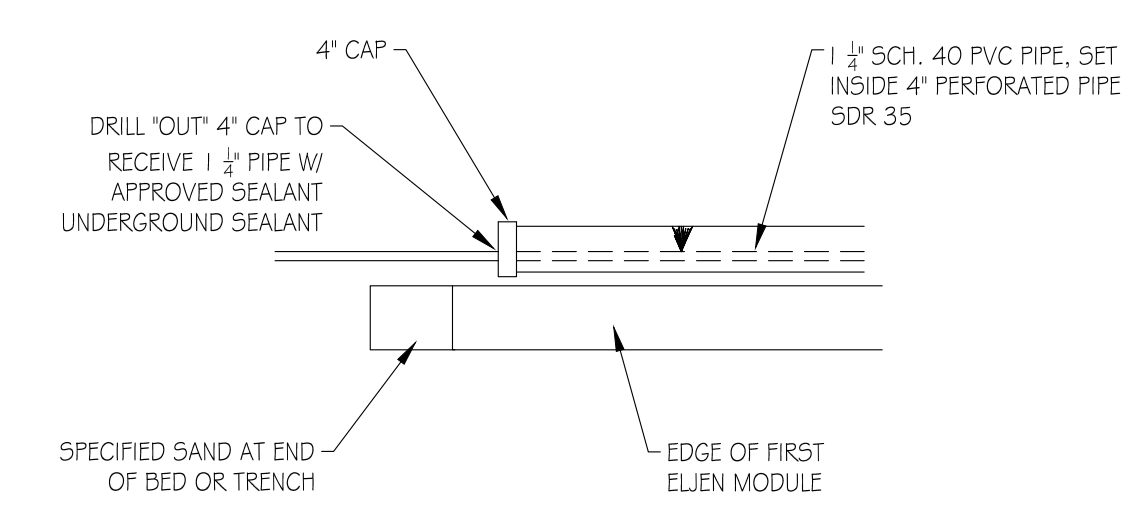
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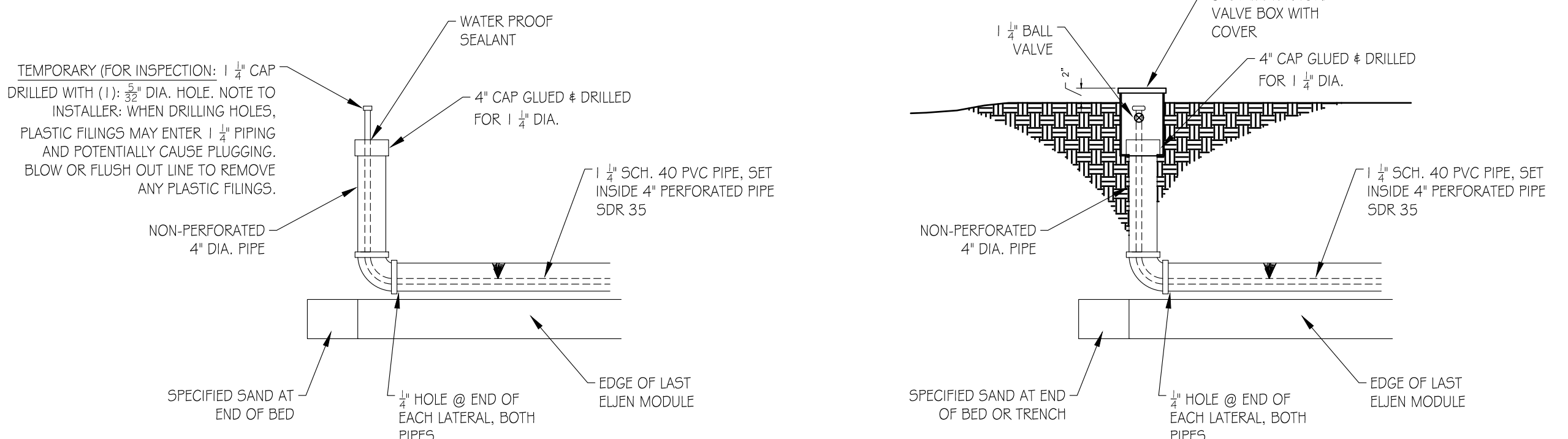
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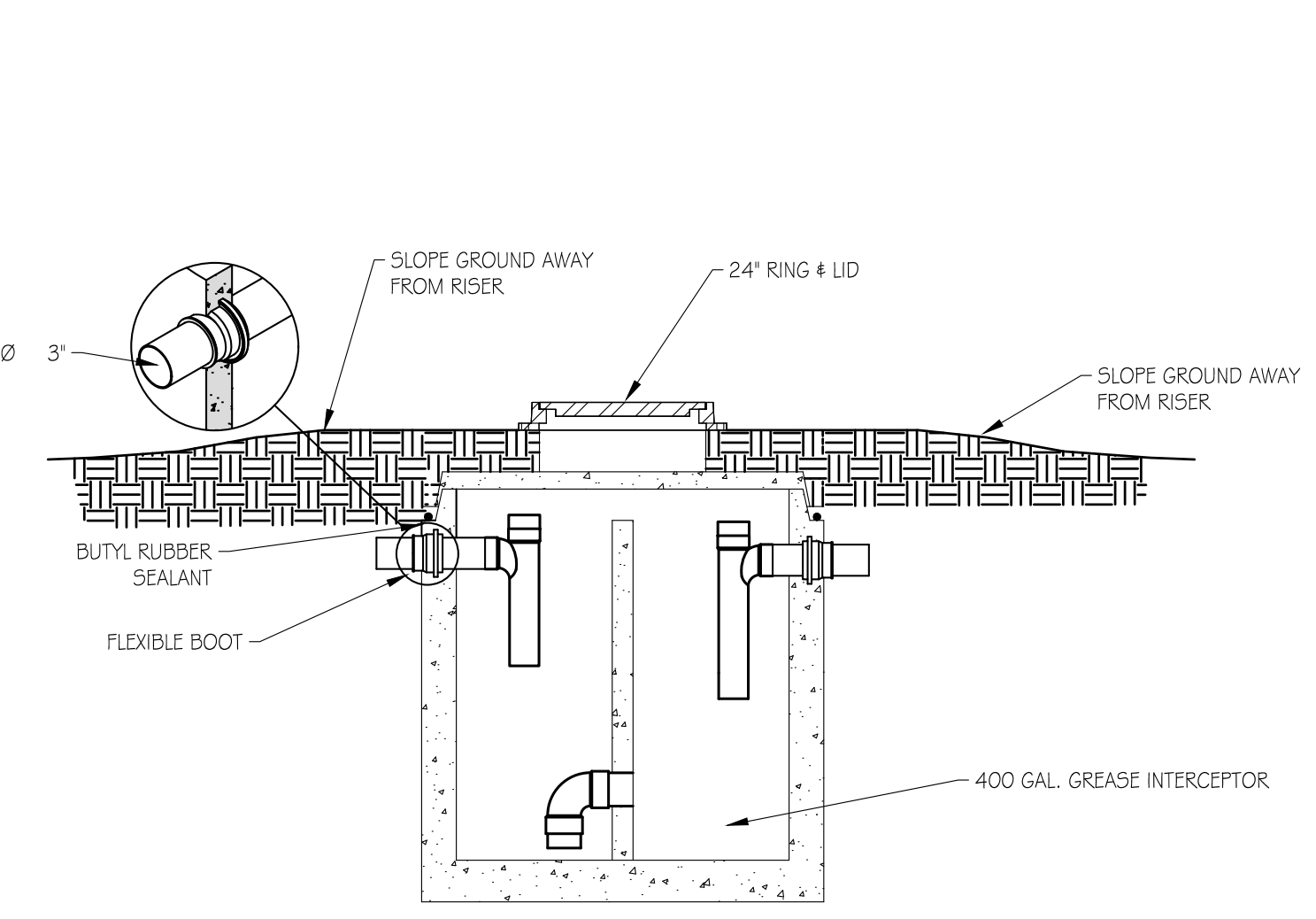
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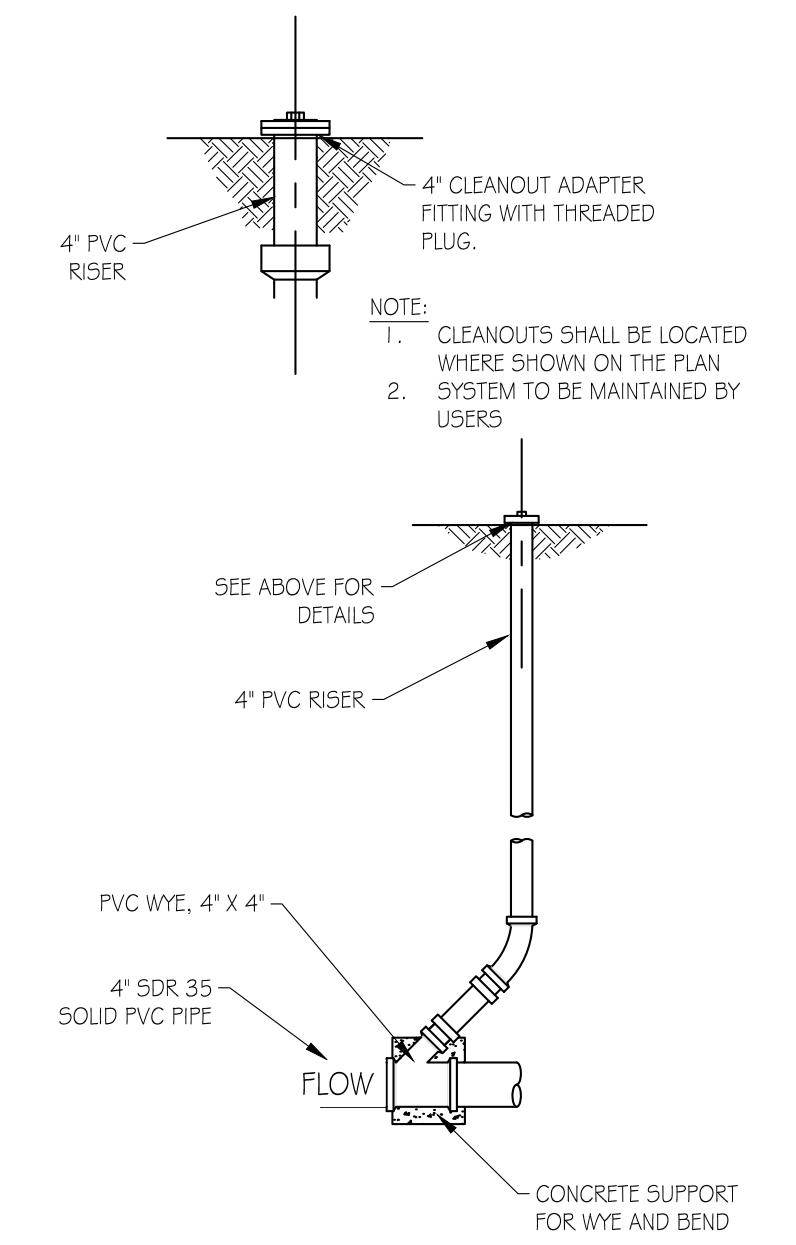
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**FOR INSPECTION**  
**DETAIL C**  
SCALE: 1/4" = 1'-0"



**400 GAL. GREASE INTERCEPTOR**  
SCALE: N.T.S.



**SEWER CLEANOUT DETAIL**  
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REVISIONS	DATE	BY

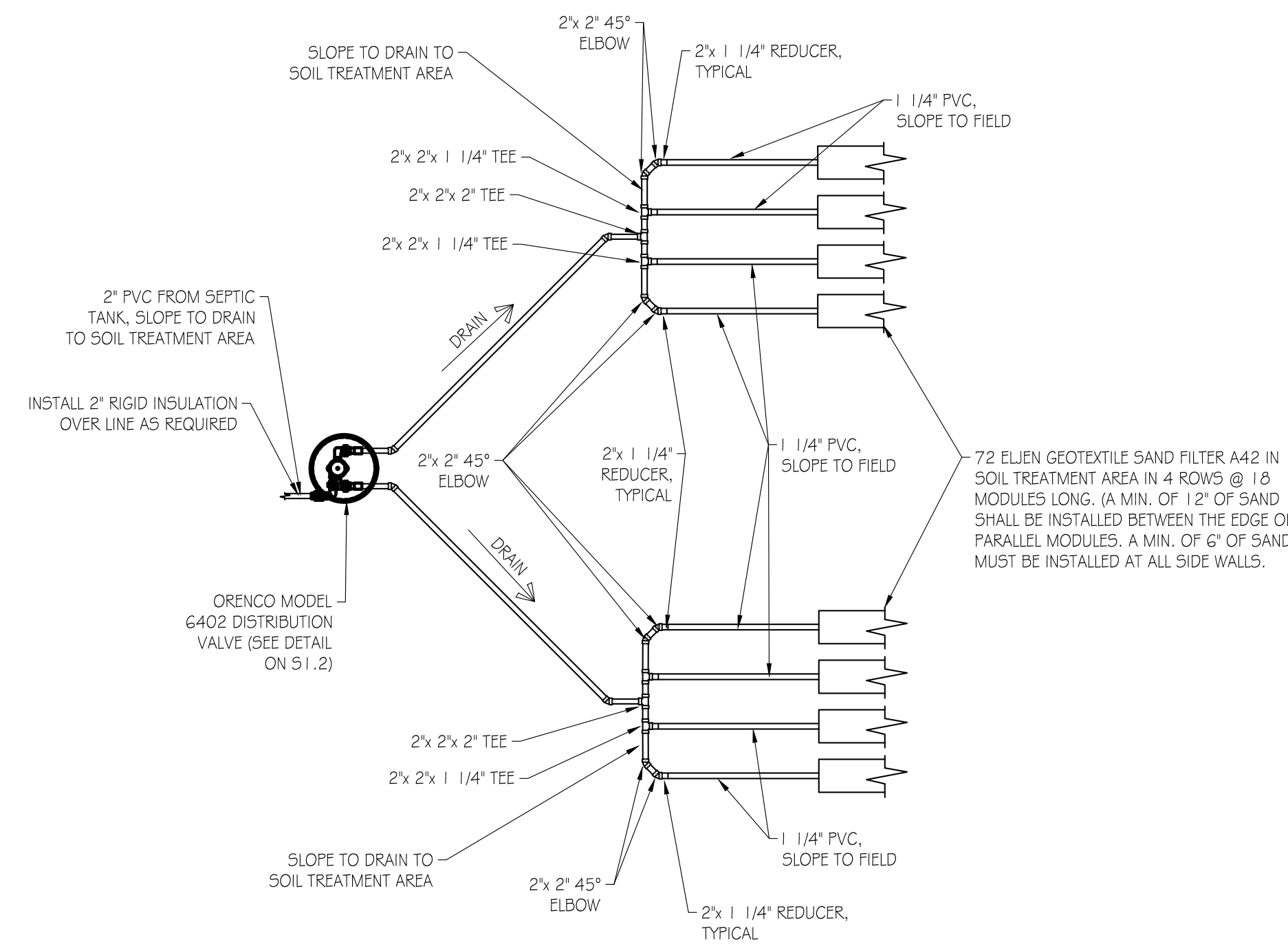
**SCJ ALLIANCE**  
CONSULTING SERVICES  
400 NORTH MAIN STREET, GUNNISON, CO 81230  
P: 970.841.2499  
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**ON-SITE WASTEWATER TREATMENT SYSTEM DETAILS**  
TAYLOR RESIDENCE  
329 MAIN STREET, PITKIN GUNNISON COUNTY, COLORADO

SHEET TITLE: ON-SITE WASTEWATER TREATMENT SYSTEM DETAILS  
PROJECT NAME: TAYLOR RESIDENCE  
DESIGNER: CSF  
DRAWN BY: CSF  
APPROVED BY:   
DATE: OCTOBER 25, 2023  
JOB NO: 22-000619  
DRAWING NO:   
SCALE:

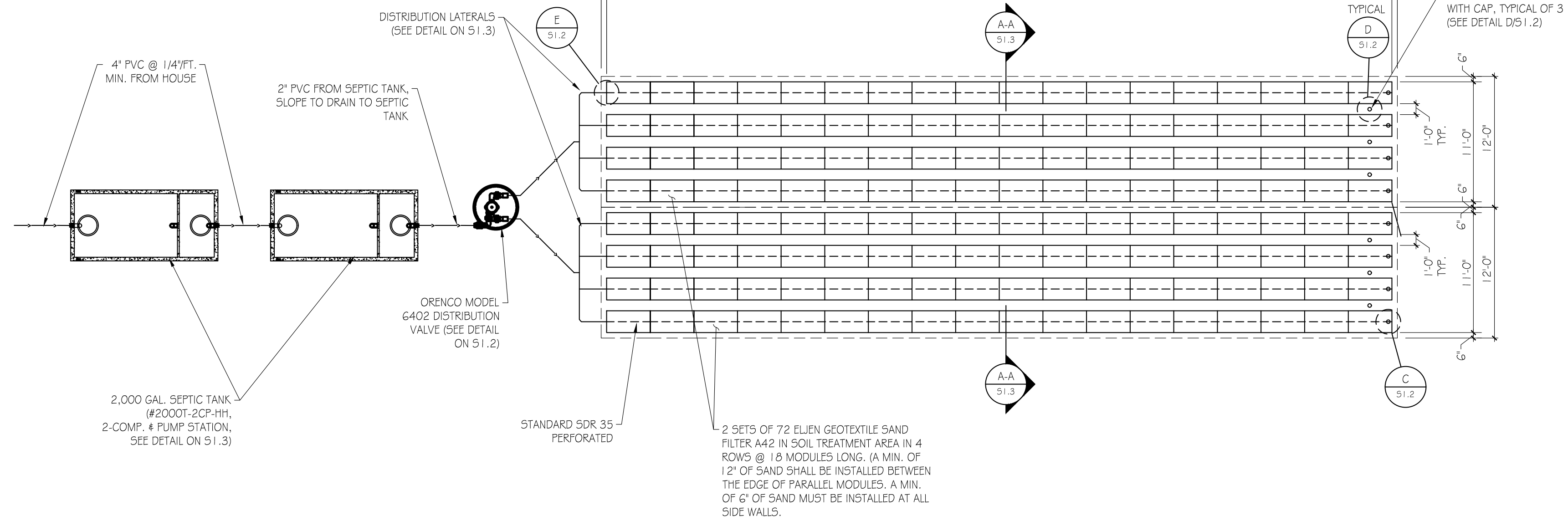
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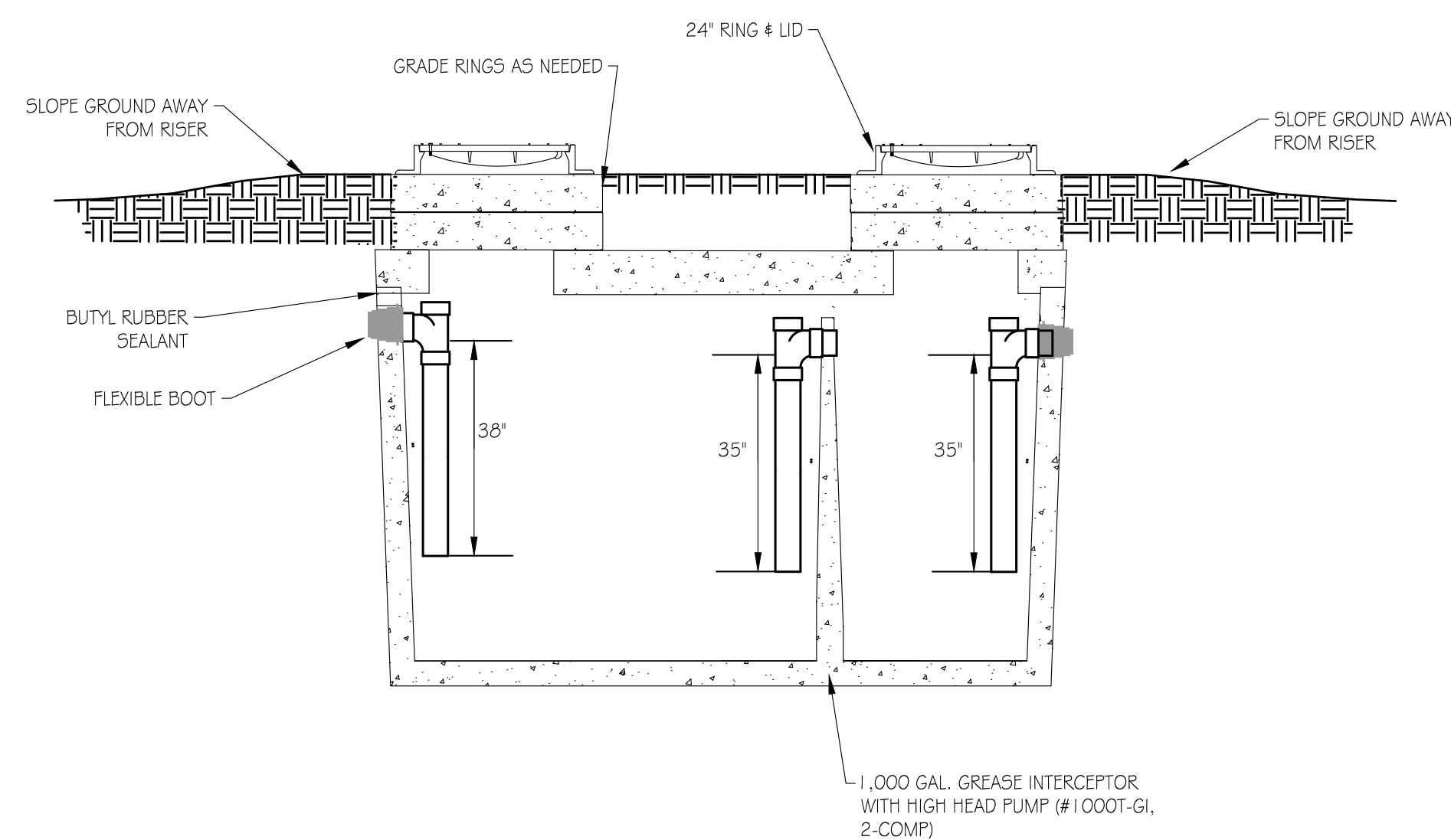
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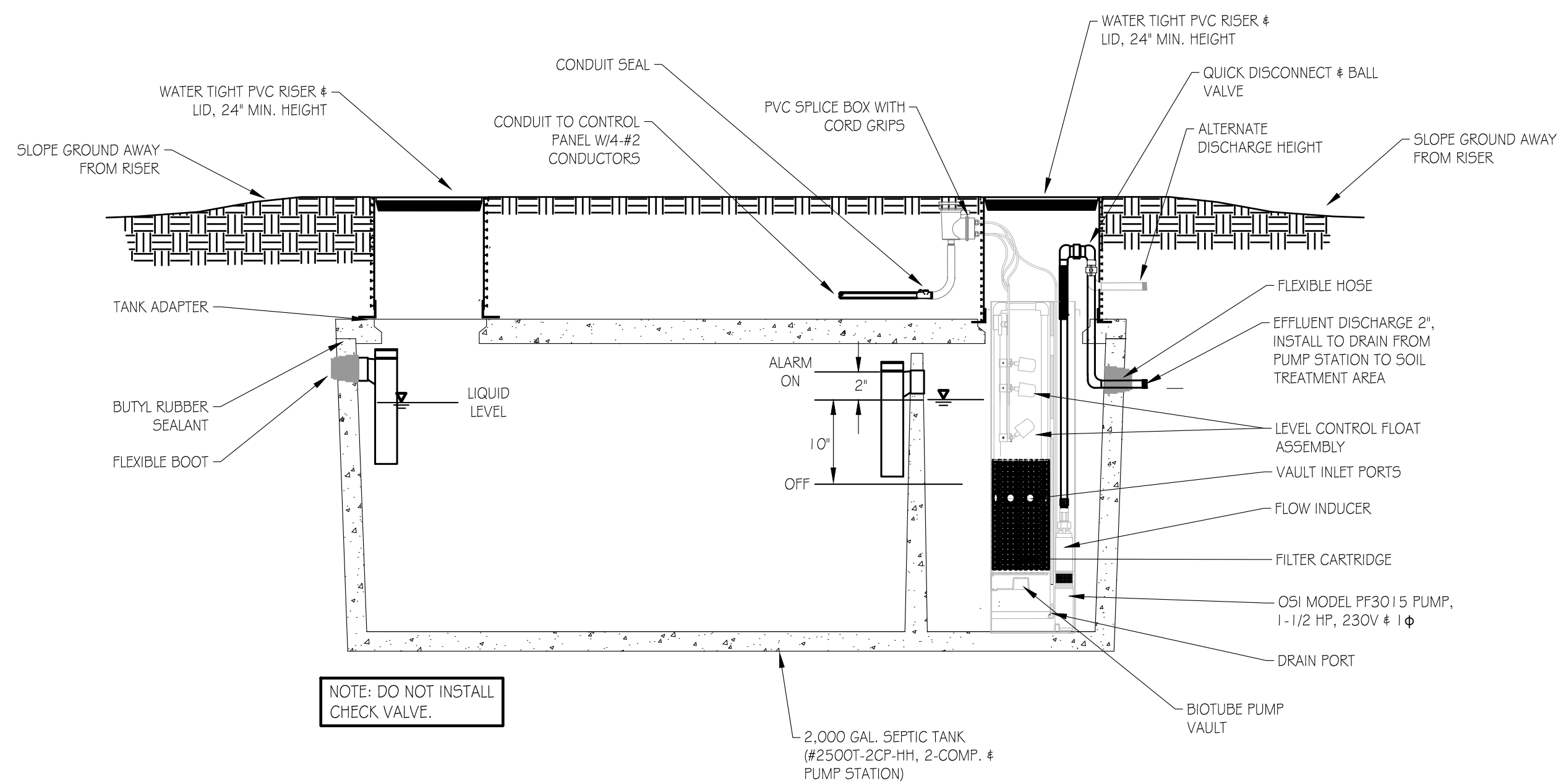
**SOIL TREATMENT AREA**

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**1,000 GAL. GREASE INTERCEPTOR**

SCALE: N.T.S.



**2,000 GAL. SEPTIC TANK AND PUMP STATION**

SCALE: NTS

REVISIONS	DATE	BY

**SCJ ALLIANCE**  
CONSULTING SERVICES  
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P: 970.841.2499  
SCALLIANCE.COM

**ON-SITE WASTEWATER TREATMENT SYSTEM DETAILS**  
TAYLOR RESIDENCE  
329 MAIN STREET, PITKIN GUNNISON COUNTY, COLORADO

DESIGNER: CSF
DRAWN BY: CSF
APPROVED BY:
DATE: OCTOBER 25, 2023
JOB NO: 22-000619
DRAWING NO:

**S1.3**

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