

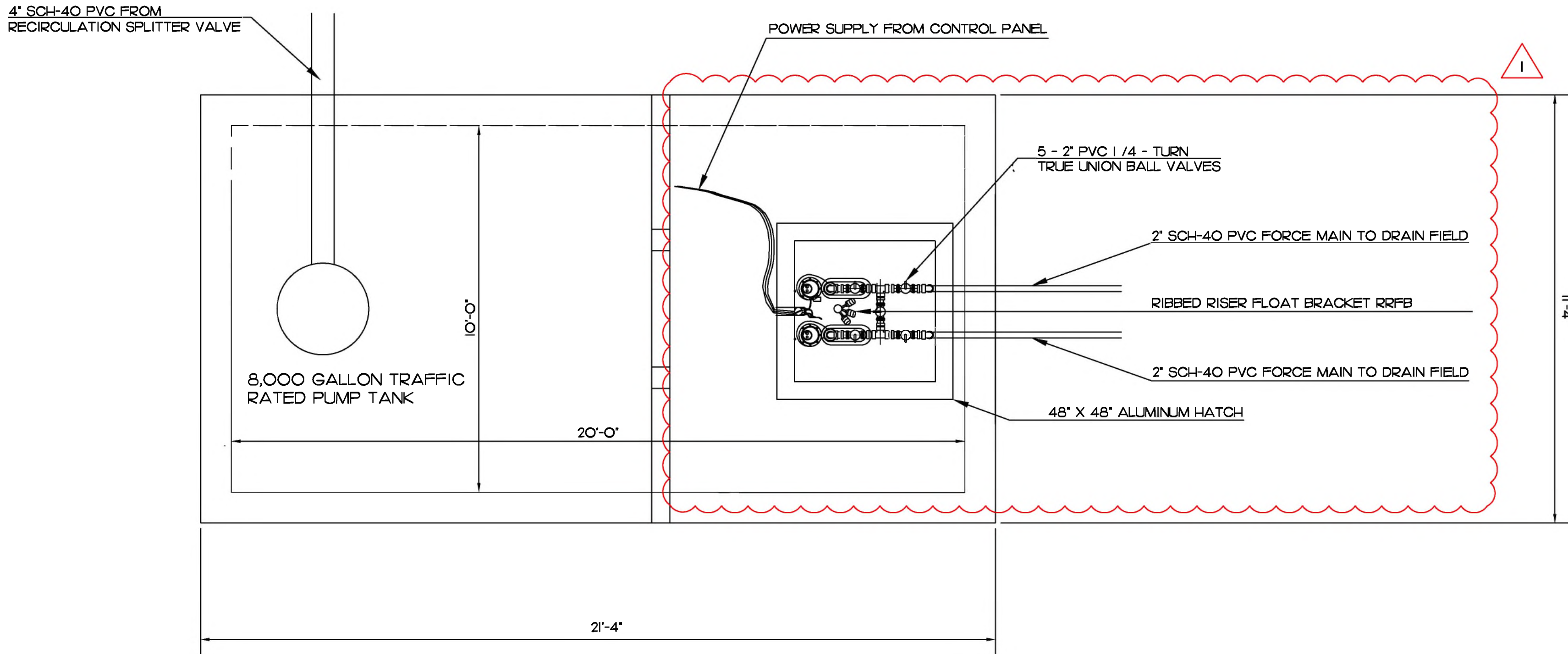
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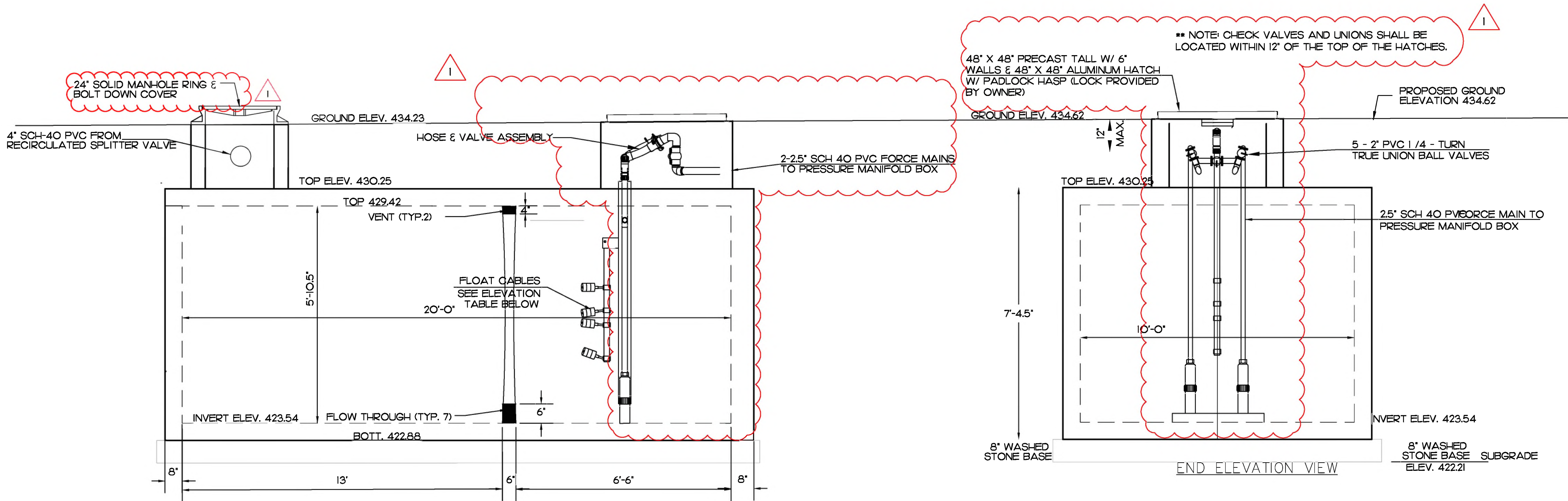
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PLAN



8,000 GALLON PRECAST
CONCRETE PUMP TANK
21'-4" X 11'-4" X 8'-6" TALL
(SHOAF PT-2091 OR EQUAL)

PUMP TANK ELEVATIONS	ELEVATION	DEPTH FROM BOTTOM
A INVERT	423.54	0.0'
B PUMP OFF	425.54	24.0'
C LEAD PUMP ON/TIMER ENABLE	430.98	23.23'
D OVERRIDE TIMER	426.41	34.46'
E HIGH WATER ALARM	428.16	55.44'
F TOP OF EMERGENCY STORAGE	428.16	70.5'
G TOP ELEVATION	430.25	
H GROUND ELEVATION	434.62	

PUMP TANK NOTES:

1. TANKS SHALL BE PRECAST CONCRETE AND TRAFFIC-RATED WITH MINIMUM 6" WALLS AND BOTTOM AND TOP SLABS. ALL PIPE AND ACCESS OPENINGS SHALL BE FORMED WHEN THE TANKS ARE CAST. RUBBER BOOTS SHALL BE INSTALLED TO SEAL ALL PIPE OPENINGS (C-293 OR EQUAL). ON THE TANKS, TWO 24" DIAMETER PRECAST CONCRETE ROUND RISERS SHALL BE USED TO BRING THE SEPTIC TANK ACCESSSES TO 6" ABOVE THE FINISHED GRADE ELEVATION. THE EFFLUENT FILTER SHALL BE A POLYLOK PL-625 OR EQUAL.

2. ALL RISERS SHALL HAVE 6" MIN. WALL THICKNESS. TANKS SHALL BE APPROVED BY THE ON-SITE WASTEWATER SECTION OF EHS-DWR.

3. DUPLEX PUMPS SHALL BE HIGH HEAD TURBINE EFFLUENT PUMPS OR EQUAL CAPABLE OF PUMPING 98 GALLONS PER MINUTE AT 26' OF TOTAL DYNAMIC HEAD AND HOUSED IN A COMPATIBLE PUMP VAULT OF THE SAME MANUFACTURER. SEE THE DETAIL SPECIFICATIONS FOR FURTHER PUMP AND CONTROL SYSTEM REQUIREMENTS. BOTH PUMPS SHALL HAVE 2" DISCHARGES FOR CONNECTING TO THE 2" PIPING SHOWN. CHECK VALVES SHALL BE INSTALLED ON THE VERTICAL PUMP DISCHARGES AS PART OF THE DISCHARGE ASSEMBLY FOR MAINTENANCE. THE DISCHARGE ASSEMBLY SHALL BE COMPATIBLE WITH AND OF THE SAME MANUFACTURER AS THE PUMPS AND PUMP VAULT TO ENSURE EASE OF VALVE AND PUMP REMOVAL FOR MAINTENANCE.

4. PIPING FROM THE FLEXABLE HIGH PRESSURE HOSE TO THE OUTSIDE OF THE PUMP TANK SHALL BE SCH-40 PVC WITH 2" TO 2.5" REDUCER. PIPING SHALL BE ANCHORED WHERE SHOWN WITH 1-1/2" ALUMINUM ANGLE BRACKETS WITH STAINLESS STEEL U-BOLTS AND ANCHOR BOLTS.

5. PIPING FROM THE RISER ELBOWS TO THE DRAIN FIELDS SHALL BE SCH-40 PVC. SEE THE FORCE MAIN PLAN-PROFILE ON SHEET UI-02.



2/6/2024
revisions
2/6/2024 - ADDENDUM #1

WCP-101295-2023
Campground Improvements
Umstead State Park
8801 Glenwood Ave
Raleigh, NC 27617
NC Division of Parks and Recreation

PROJECT: 21045
DATE: 1/19/2024
DRAWN: MWB
CHECKED: JFW

**PUMP TANK
DETAILS**

sheet no

U2.4

1	SEPTIC SYSTEM PUMP TANK
U2.4	SCALE: NOT TO SCALE