632760

F-SRC-131
DEMINERALIZED WATER
DUPLEX FILTER
DESIGN FLOW RATE:

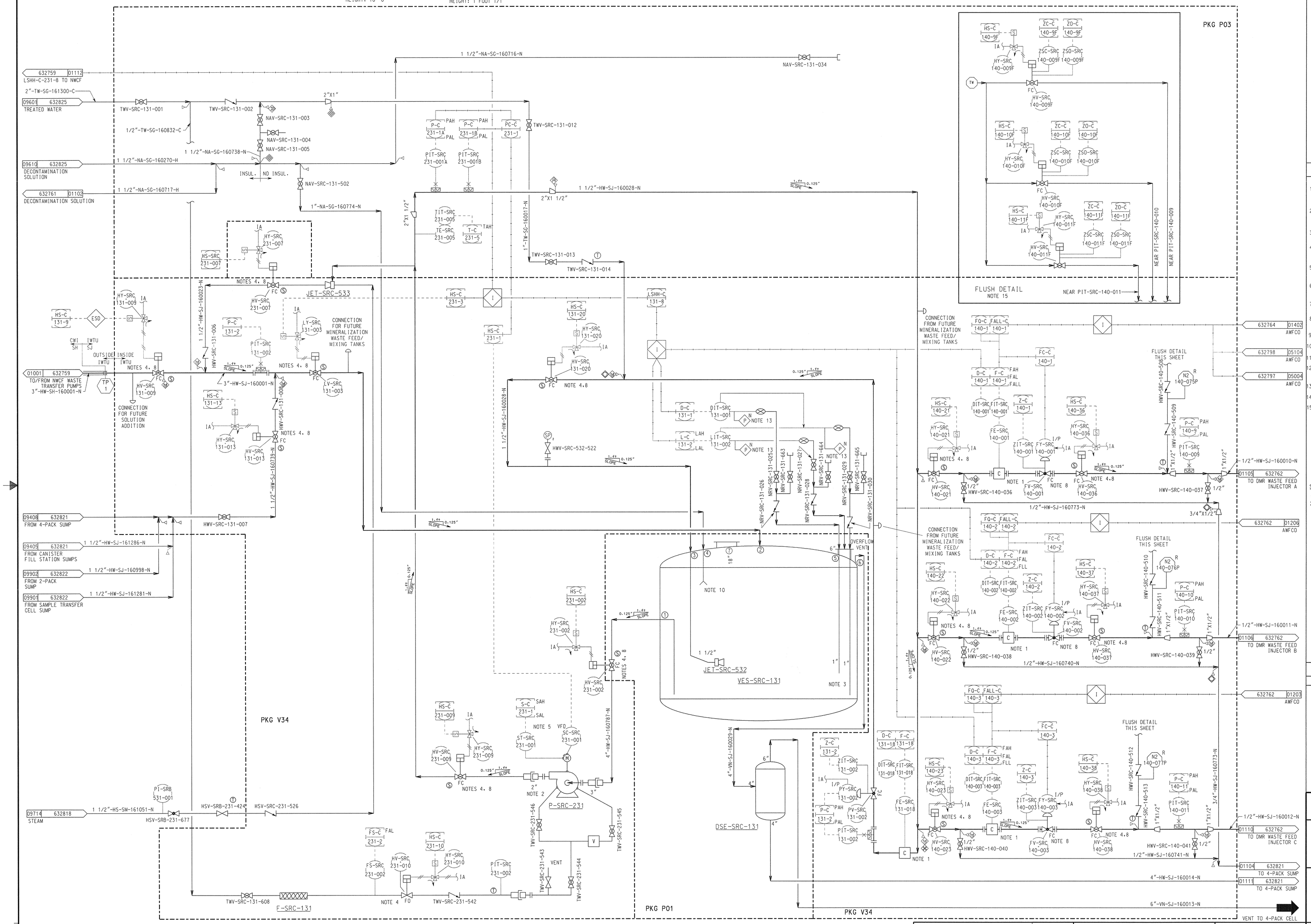
VES-SRC-131
WASTE
FEED TANK
WORKING VOLUME:1500 GALLONS
DIAMETER: 6'-1"
HEIGHT: 10'-0"

DSE-SRC-131
WASTE FEED
TANK OVERFLOW SEPARATOR
WORKING VOLUME:7.7 GALLONS
DIAMETER: 1 FOOT
HEIGHT: 1 FOOT T/T

JET-SRC-533
WASTE FEED PUMP
PRIMING EJECTOR
DESIGN FLOWRATE: 30 GPM

JET-SRC-532
WASTE MIXING EDUCTOR
DESIGN FLOWRATE: 40 GPM

P-SRC-231
WASTE
FEED PUMP
DESIGN FLOWRATE: 100 GPM
NORMAL DISCHARGE PRESSURE: 114 psig



REV	DATE	DESCRIPTION	By / Chk'd
0	10/12/06	ISSUED FOR DESIGN FREEZE	

NOTES

1. TOTAL FLOW CALCULATED AS THE SUM OF THE WF FLOWRATE TO EACH INJECTOR. CORIOLIS FLOWMETERS TO BE INSTALLED IN NEAR VERTICAL ORIENTATION.
2. P-SRC-231 PROCESS AND ELECTRICAL CONNECTIONS ARE TO BE MADE USING REMOTELY MAINTAINABLE CONNECTIONS TO FACILITATE PUMP MAINTENANCE AND REPLACEMENT.
3. LEVEL PROBES HAVE 10" SEPARATION IN ORDER TO MEASURE DENSITY.
4. DENOTES VALVES HAVING POSITIONS SWITCHES SHOWN IN "TYPICAL POSITION SWITCH" SKETCH. SEE 632758 (S) IMPLIES SPECIALTY VALVE.
5. SEE DRAWING 632757 FOR TYPICAL VFD INSTRUMENTATION. VFD'S TO BE LOCATED ON MOTOR CONTROL CENTER. (PDC #2)
6. (TW) SEE DETAILS ON 632758.
7. (N2) SEE DETAILS ON 632758.
8. SOLENOID VALVES AND I/P ARE LOCATED OUTSIDE SHIELDED AREA WITH PNEUMATIC TUBING INTO CELL. ONLY IF NECESSARY.
9. SEE DRAWING 632758 "TYPICAL POSITION SWITCH".
10. FIXED SPRAY NOZZLE IS WELDED IN PLACE.
11. SEE FLUSH DETAIL THIS PAGE.
12. CHANGED INSTRUMENT AND VALVE TAG NUMBERS PER MCP-3785 AND EQUIPMENT TAG NUMBERS PER DCN-IWTU-115.
13. (P N) SEE DETAILS ON 632758 AND STANDARD DWG 634103-SHT.XX.
14. SINGLE HOSE CONNECTION.
15. SEE FLUSH RACK DWG. 634105 SHT.XX.

SAFETY SIGNIFICANT ITEMS:

1. HV-SRC-140-021, 022, 023
2. HY-SRC-140-021, 022, 023

REFERENCE DRAWINGS

DRAWING NO.	DRAWING TITLE

IDAHO CLEANUP PROJECT
INTEGRATED WASTE TREATMENT UNIT

PIPING & INSTRUMENT DIAGRAM SBW WASTE FEED SYSTEM

Washington Group International
7800 E. Union Ave. - Denver, CO 80237 - (303) 843-2000

THOR Treatment Technologies

REVISION APPROVAL RECORD					REV 0
DISCIPLINE	BY	DATE	DISCIPLINE	BY	DATE
ARCH.	—	—	MECHANICAL		10/12/06
CIVIL	—	—	NUCLEAR		
ELECTRICAL		10/13/06	PIPING		10/12/06
ENVIRON.	—	—	PROCESS		10/12/06
GEN. ARRANG.		10/12/06	QA / QC		10-12-06
HVAC		10/12/06	STRUCTURAL		10-12-06
I & C		10/12/06	REMOTE HDL.		—
			SYS. ENG.		10-12-06

DRAWING STATUS				
ISSUED	REV	DATE	LDE	PEM
PRELIMINARY	I	09/22/06	RLH	NDA
APPROVED FOR CONSTRUCTION	0	10/12/06		

NOT APPROVED FOR CONSTRUCTION UNLESS SIGNED & DATED. DESTROY ALL PRINTS BEARING EARLIER DATE &/OR REV. NO.

PROFESSIONAL ENGINEER REGISTERED STATE OF IDAHO THOMAS WILLIAM NELSON 10/13/06

SIZE	FOR DRAWING INDEX SEE DRAWING NO.
E	200-1696-24-923-632756

SCALE:	NONE	PLAN DATE	10/10/06
DRAWN:	DRW	DATE	05/03/06
DESIGNED:		DATE	
CHECKED:		DATE	10/12/06
VERIFIED:		DATE	10/12/06
APPROVED:		DATE	
CAD FILE NAME:	632760.pid		

PROJECT NO. 28276
WBS: P.1.04.03.02
SYSTEM: QUALITY LEVEL: 2
DRAWING NUMBER 632760 REV 0
INDEX CODE NUMBER: AREA 200 TYPE 1696 GL 24 SER LC 923
SHEET P-11

WGIDESIGN_FILE_PATH_AND_NAME_EXTENSION$
WGIPLOT_DATE_AND_TIME$