

NOTICE!

**ALL DRAWINGS
ARE LOCATED
AT THE END OF
THE DOCUMENT**

Summary Report of
Phase I RCRA Closure Activities for
Tank and Ancillary Equipment System #18
in Building 771

U.S. Department of Energy
Rocky Flats Environmental Technology Site
EPA ID No. CO7890010526



Confirmed and Approved by:

T C Baker

T C Baker, Environmental Compliance, RMRS

11/23/99

Date

Prepared by:

N.C.T. Van Fyne

N.C.T. Van Fyne, P.E., IT Corporation

11/23/99

Date

1.0 PURPOSE

This Summary Report for Phase I activities in the RCRA closure of Tank and Ancillary Equipment System #18 is a requirement of Section 1.2 of the Closure Description Document (CDD) for this system (RF/RMRS-99-396 UN). The major features of this report include a declaration that the piping described in the document was removed as planned, a description of major closure activities and any deviations from those stated in the document, a copy of any newly-generated drawings and relevant analytical results, and a statement regarding whether the tanks included in this system have met the requirements of the "RCRA Stable" condition.

2.0 DESCRIPTION OF MAJOR CLOSURE ACTIVITIES

The process piping for System #18 indicated in the CDD, Figures 1-4, was removed under IWCP work package number T00100539, except for approximately 104 feet of piping in Corridor D that is currently inaccessible, the total amount removed was 629 feet of piping. Figures 1-3, inclusive, were revised and are attached as replacements for the figures originally submitted with the CDD, to indicate new locations for some of the termination points resulting in certain valves remaining in place. Figure 3 was revised to show that piping was left in Corridor D. Figures 1 and 3 have also been revised to show valves left in place. Eight valves in this system were removed. All removals were confirmed through pre-job and post-job walkdowns of the system.

A sign was also hung on the piping section to indicate that this piping had been drained and abandoned, its location is shown in Figure 3. The abandoned piping will be removed as part of D&D Set 58.

Piping removal was mainly accomplished by using the pipe-crimping tool, except for 1-inch stainless steel pipe, where a crimper blade was broken on it. The remaining 1-inch stainless steel pipe was removed using a 4-wheel cutter inside a sleeve or T-sleeve to cut the pipe wall until separation was almost achieved. The cutter was then removed, the sleeve was taped, the pipe was manually separated, and the sleeve was closed in a pigtail formation to secure all pipe ends. Short pipe stubs were left at all Termination Points (TPs) on the first floor. A small amount of dry absorbent was placed inside the outer bag at the pipe stub TPs.

The pipe sections were inspected visually by looking through them from one end after they were size reduced. No blockages were found in any sections and the pipe interiors appeared to be dry. The sections were characterized as non-hazardous transuranic waste and were placed into an IP-2 metal waste crate.

Analyses of confirmatory samples indicated the presence of a 7N nitric acid solution with pH<1, which was assigned the following hazardous characteristics D002 (corrosivity), D004 (arsenic) and D008 (lead) No additional liquids or sludges were recovered during piping removal activities. Negligible amounts of fluorides were detected in some of the samples.

A total of 11.1 liters of liquid were recovered among 8 bottles, including nearly 4 liters at drain point #21 (DP-21). The liquid is being held in bottles for processing through the Miscellaneous Cementation treatment process in Building 774 (Bottle Box). These bottles carry the waste codes listed above

3.0 TANK STATUS WITH RESPECT TO THE "RCRA STABLE" CONDITION

Tanks D-3, D-4, D-86, D-87 and D-88 are included in the Mixed Residue Tank Inventory These tanks meet the requirements for the "RCRA Stable" condition as follows:

1. The tanks are operationally empty; i.e., they have been drained to the maximum extent possible using readily available means
2. All process piping connected to the tanks has been removed, except for the common drain line linking tanks D-3 and D-4
3. Inlets to and outlets from the tanks, except for the vacuum/vent lines, have been isolated and contained, or locked and tagged out.

The "RCRA Stable" designation will be requested, along with a proposed inspection frequency, under separate cover After the tanks have been approved as "RCRA Stable" by CDPHE, they will be labeled with their status and inspection frequency. In addition, the Master List of RCRA Hazardous Waste Units at Rocky Flats will be updated.

4.0 SUMMARY

The requirements of the CDD for Phase I activities in the RCRA closure of System #18 in Building 771 have been fulfilled as stated in the document, and the piping that remains will be removed as part of D&D Set 58. In addition, all of the tanks in this system meet the requirements for the "RCRA Stable" condition.

99-RF-XXXXXX

Mr Steve Tarlton, RF Oversight Team Unit Leader
Federal Facilities Program
Colorado Department of Public Health and the Environment
4300 Cherry Creek Drive South
Denver, Colorado 80246-1530

**SUMMARY REPORT OF PHASE I RCRA CLOSURE ACTIVITIES FOR TANK AND
ANCILLARY EQUIPMENT SYSTEM #18 IN BUILDING 771 – KN-XXX-99**

Dear Mr Tarlton

Pursuant to the *RCRA Closure Plan for Interim Status Units* (July, 1998) (Closure Plan) and the *Closure Description Document for Tank and Ancillary Equipment System #18 in Building 771* (RF/RMRS-99-396 UN), Kaiser-Hill Company, L L C is submitting the enclosed Summary Report of Phase I RCRA Closure Activities for Tank and Ancillary Equipment System #18 in Building 771

The summary report contains a description of major closure activities and a declaration that the tanks in these systems meet the requirements for the "RCRA Stable" condition

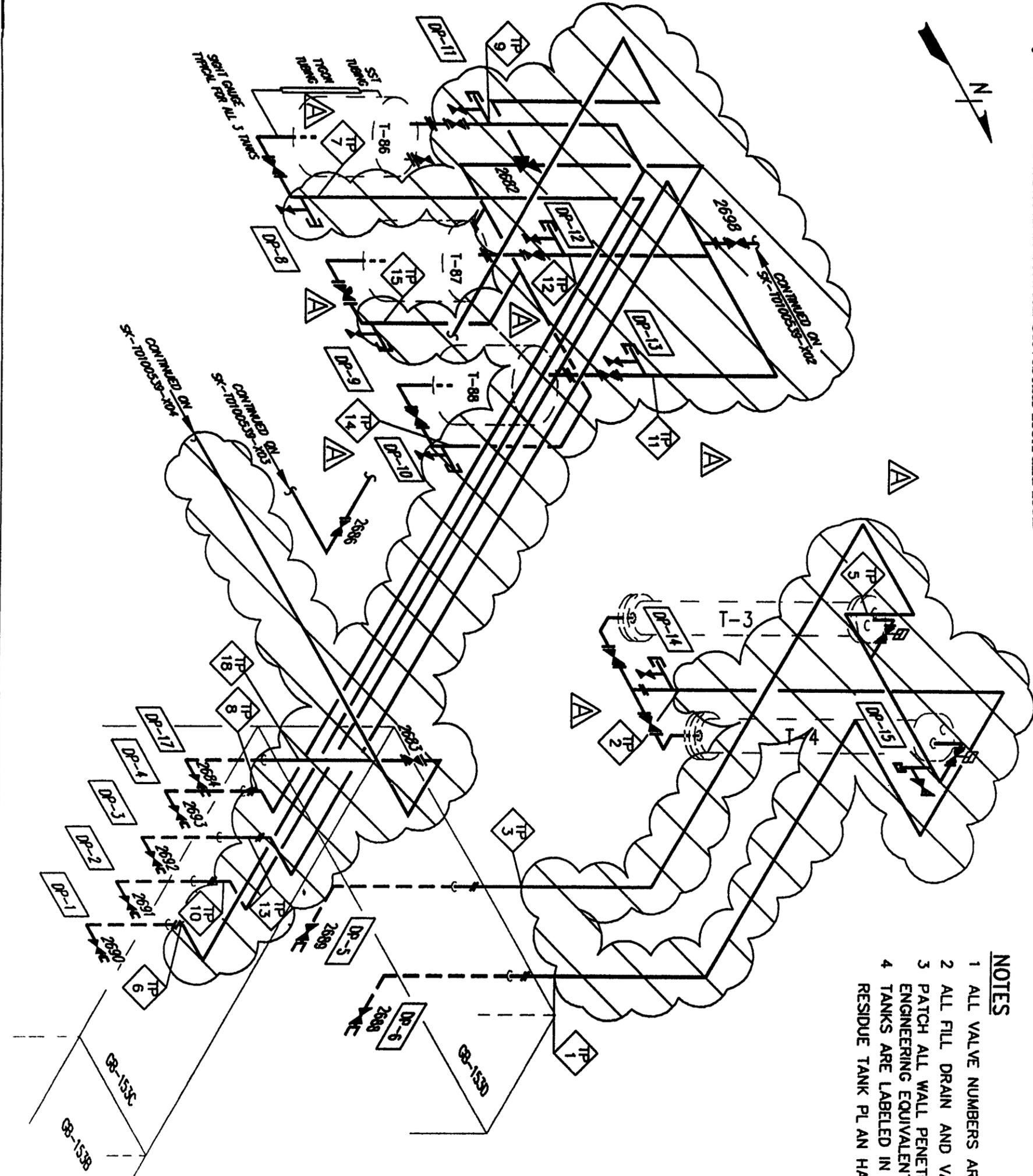
If you have any questions, please contact Tom Baker of Rocky Mountain Remediation Services at 303-966-4329

Karan North, Division Manager Date
Environmental Systems & Stewardship
Kaiser-Hill Company, L L C

cc
C Gilbreath - CDPHE
D Grosek - DOE, RFFO
J E Springer - DOE RFFO
T C Baker - RMRS
T A Hopkins - RMRS
R M Leitner - Proctor's Enterprise
C M Madore - Environmental Compliance Services
N C T Van Tyne - IT Corporation

7/7

Figure 1 System #18 - Transfer Line between Gloveboxes 153A and 153E

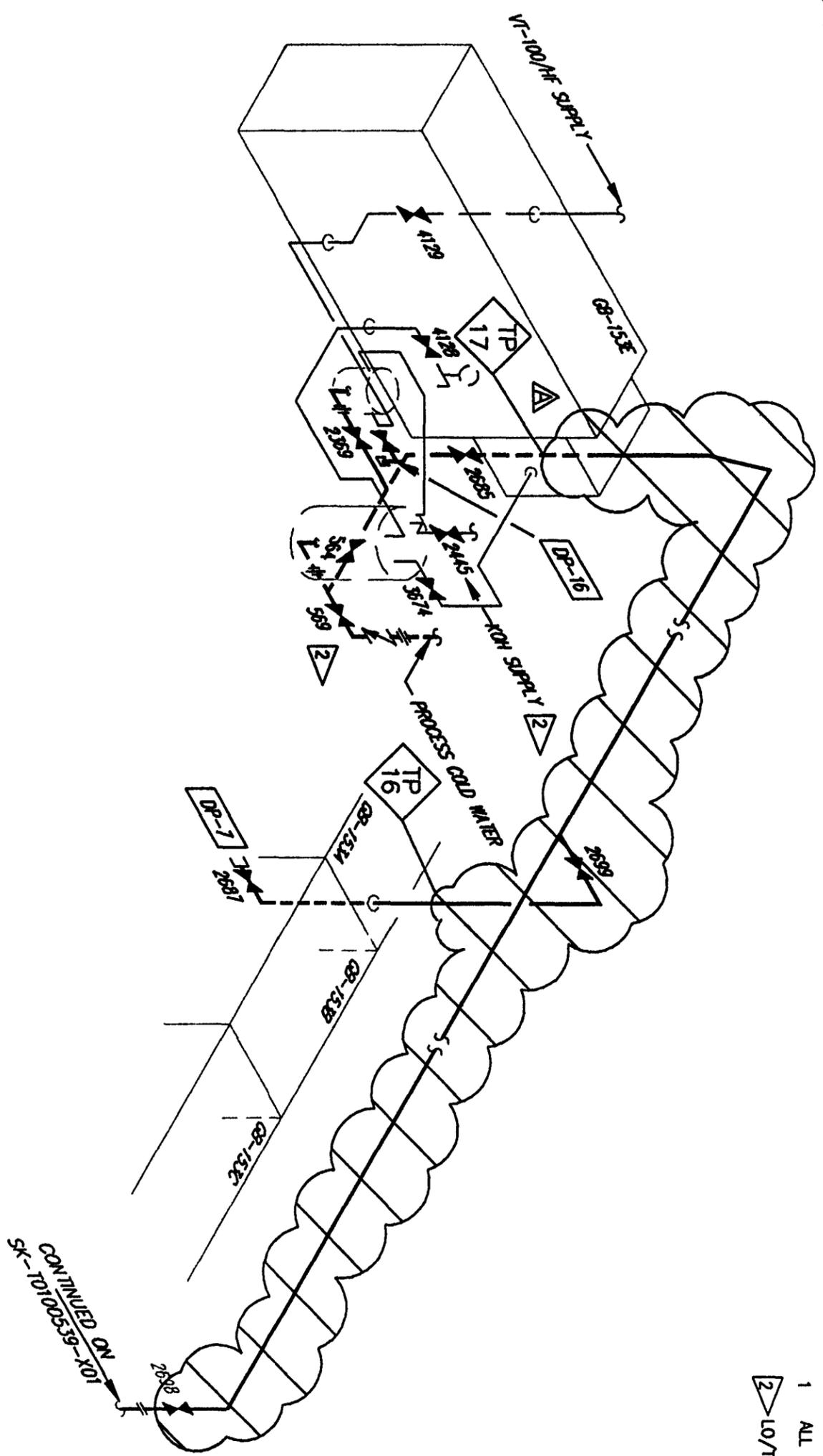


NOTES

- 1 ALL VALVE NUMBERS ARE PRECEDED BY "HV" UNLESS OTHERWISE NOTED
- 2 ALL FILL DRAIN AND VAC/VENT HAVE PADDLE BLINDS IN LINE
- 3 PATCH ALL WALL PENETRATIONS WITH 5-STAR GROUT OR ENGINEERING EQUIVALENT
- 4 TANKS ARE LABELED IN THE FIELD AS T AND THE NUMBER THE MIXED RESIDUE TANK PL AN HAS THE TANKS LISTED AS D AND THE NUMBER

REV NO.	DATE	DESCRIPTION	DATE	DRAWN	CHK	CLASS
YELA	6/9/99	EXPERT OF MASTER DRAWING NUMBER				
OVER		1794-01 REV C				
CLASSIFIED			APPROVED FOR USE WITH			
BLDG./FACILITY			NMP/AUTHORIZATION PROJECT NUMBER: 100100539			
ROOM/AREA			PROCESS PIPING REMOVAL			
GRID COORD./COL. NO.			SPECIAL RECOVERY RM 153			
SCALE			DRAWING NUMBER			
NONE			SK-10100539-X01			
CAD FILE			SHEET			
SR13-01			OF			

Figure 2 System #18 - Transfer Line between Gloveboxes 153A and 153E

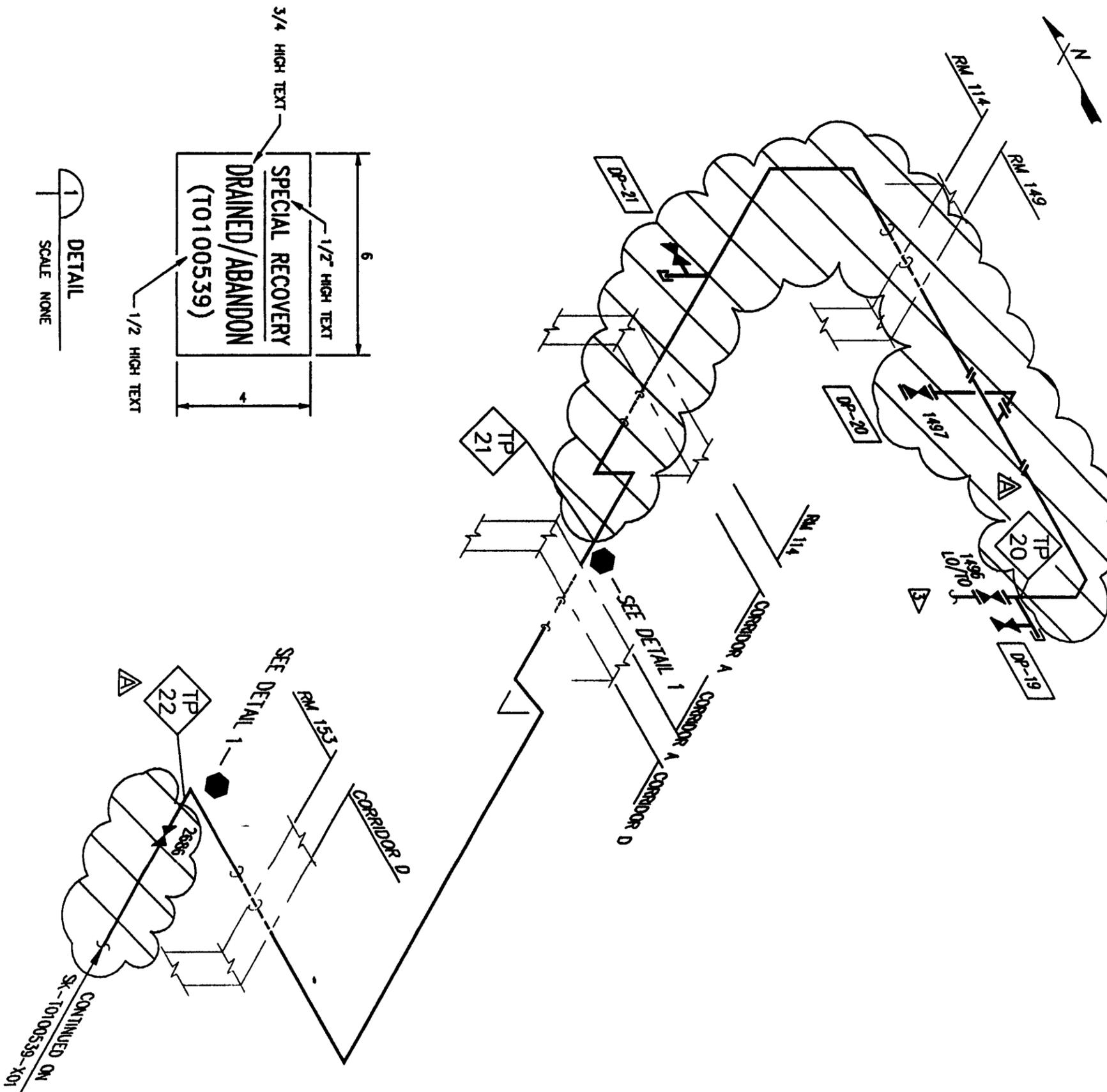


NOTES

- 1 ALL VALVES ARE PRECEDED BY HV UNLESS OTHER WISE NOTED
- 2 LO/TO HV-2445 AND HV-569 IN THE SHUT POSITION

A		UPDATED PPR LOCATIONS	1/22/99	SI	
REV. NO.	DESCRIPTION	DATE	DRAWN	CHECK	CLASS
001	YELA	6/17/99			
002	DATE				
CLASSIFIED					
BLDG./FACILITY					
ROOM/AREA					
GRID COORD./COL. NO.					
SCALE					
NONE					
CAD FILE					
SR153-02A					
B		APPROVED FOR USE WITH			
MCP/AUTHORIZATION PROJECT NUMBER		100100539			
PROCESS PIPING REMOVAL					
SPECIAL RECOVERY RM 153					
DRAWING NUMBER					
SK-10100539-X02					
SIZE					
B					
SHEET					
OF					

Figure 3 System #18 - Transfer Line from Room 153 to Room 149



NOTES

- 1 ALL VALVES ARE PRECEDED BY HV UNLESS OTHER WISE NOTED
- 2 HV-1496 IS TO REMAIN UNDER LO/TO
- 3 TEES INTO THE EFFLUENT WASTE LINE
- 4 PATCH ALL WALL PENETRATIONS WITH S-STAR GROUT OR ENGINEERING EQUIVALENT

REV/NO	DATE	DESCRIPTION	DATE	DRAWN	CHECK	CLASS
YELA	6/17/99	EXCERPT OF MASTER DRAWING NUMBER:				
CHECKED	DATE	17994-01 REV C				
CLASSIFIED						
APPROVED FOR USE WITH						
NMP/AUTHORIZATION PROJECT NUMBER: T00100539						
PROCESS PIPING REMOVAL						
SPECIAL RECOVERY RM 153						
DRAWING NUMBER						
SCALE	NONE	SIZE	SHEET			
CAO FILE	SRI53-03A	B	SK-T0100539-X03			
OF						