W238163

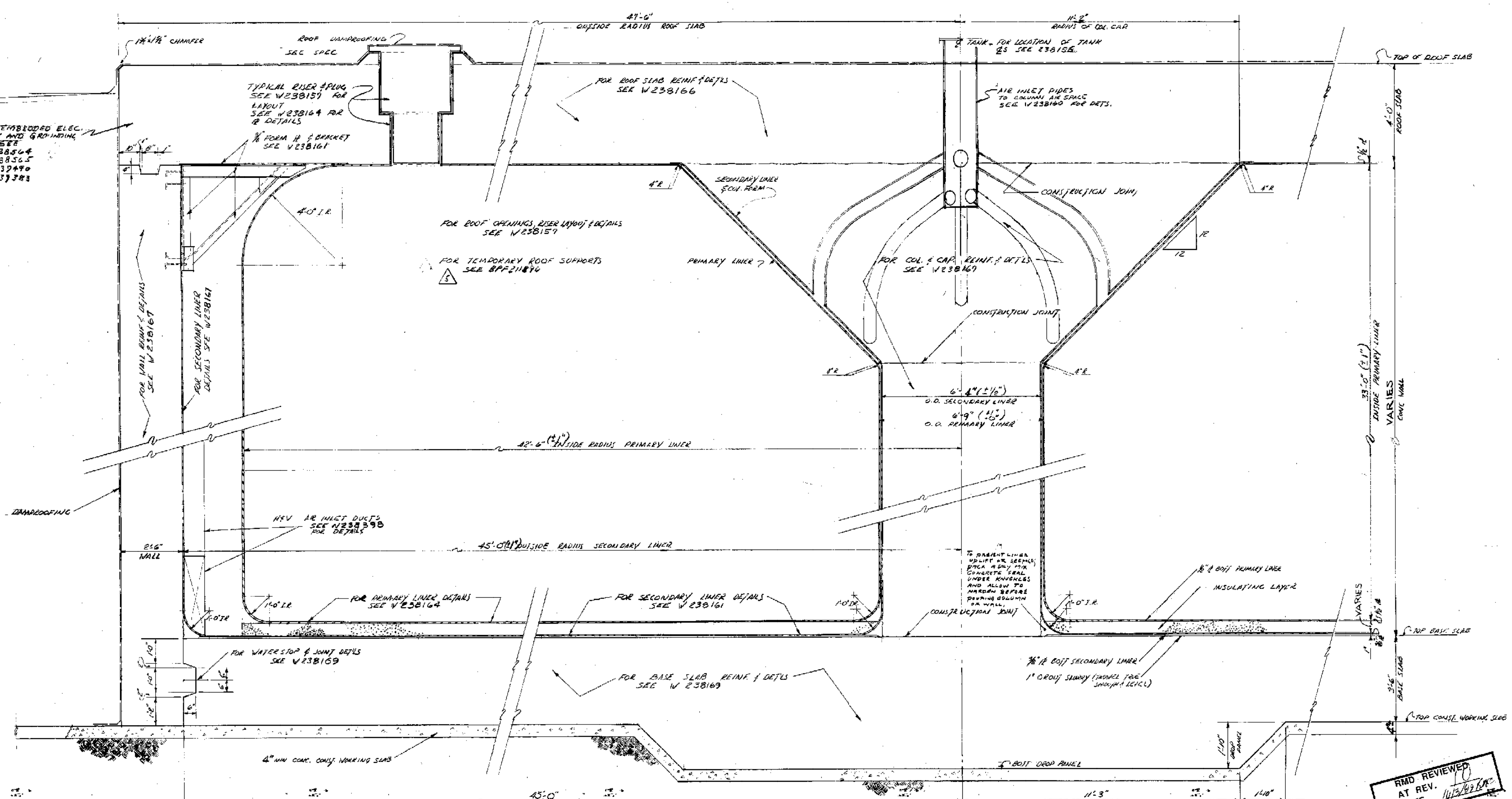
ANALYZE & MARK THIS PRINT FOR ALL SAFETY CONSIDERATIONS

A.& C. INDEX

CIVIL & EXCAVATION DRAWINGS		STEEL DRAWINGS		CONCRETE DRAWINGS	
DWG. NO.	DESCRIPTION	DWG. NO.	DESCRIPTION	DWG. NO.	DESCRIPTION
W 238155	PLOT PLAN - CIVIL	W238164	PRIMARY LINER, PLAN & DETAILS	W238169	BASE SLAB PLAN, SECTIONS & DETAILS
W238154	EXCAVATION PLAN	W238161	SECONDARY LINER, PLAN & DETAILS	W238167	WALL & COLUMN - SECTIONS & DETAILS
~~W238926~~	T.C. PLOT PLAN			W238157	TOP SLAB PLAN SH.1
				W238166	TOP SLAB REINF. LAYOUT.
		W238168	LINER PLATE ATTACHMENTS	W238158	TOP SLAB PLAN & DETAILS SH.2
		W238160	COOLING SLOTS, PLANS & DETAILS	W238156	RISER & PLUG DETAILS
		W162691	TANK BOTTOM LOWERING FRAME - STEEL	W238643	DIVERSION BOX, PLANS & DETAILS
				W162690	TANK BOTTOM LOWERING FRAME - CONC. & STEEL
				W238159	TOP SLAB PLAN & DETAILS SH.3
				W147990	WASTE LINE ENCASEMENT
				W148223	" " " (PILING PLAN)
				W164532	" " SUPPORTS

GENERAL NOTES:

1. FOR STEEL TANK LINER SPECIFICATIONS & GENERAL CONSTRUCTION PROCEDURES SEE SPEC. No. 5500
2. ALL CONCRETE TO DEVELOP 3000 PSI MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS (CLASS "C" DEF. 3BGA)
3. ASSUMED SOIL BEARING CAPACITY = 8000 PSF @ EL.
4. ASSUMED ACTIVE LATERAL SOIL PRESSURE = 40 PSF/FT. OF DEPTH
5. THE 4" CONCRETE CONST. WORKING SLAB IS TO BEAR ON UNDISTURBED SOIL. ANY VOIDS CAUSED BY OVER EXCAVATION ARE TO BE FILLED WITH LEAN CONCRETE TO THE SPECIFIED ELEVATION.
6. THE CONCRETE TOP SLAB IS TO HAVE A 4'-0" MIN REQUIRED THICKNESS FOR SHEILDING
7. TOP SLAB DESIGN LOADS:
   - SLAB DEAD LOAD = 600 PSF
   - LIVE LOAD + PADS EQUIP. = 300 PSF (9 SEE NOTE #18)
   - DESIGN TOTAL 900 PSF
8. THE ASSUMED TEMPERATURE GRADIENTS THROUGH THE CONCRETE TANK USED FOR DESIGN ARE AS FOLLOWS:
   - BOTTOM SLAB 100 °F
   - CYL. WALL - LOWER TWO FT. 100 °F
   - CYL. WALL - REMAINDER 30 °F
   - TOP SLAB 50 °F
9. STEEL PLATES FOR PRIMARY & SECONDARY LINERS ARE TO BE ASTM - A 516 GRADE 70, MIN. TENSILE STRENGTH = 70,000 PSI, DESIGN WORKING STRESS FOR INTERNAL HYDROSTATIC PRESSURE = 17,500 PSI.
10. THE PRIMARY LINER IS TO CONTAIN WASTE LIQUID WITH A SPECIFIC GRAVITY = 1.8, DEPTH = 31'-0". THE SECONDARY LINER IS TO SERVE AS A FORM FOR THE CONCRETE TANK AND TO CONTAIN ANY LEAKAGE FROM THE PRIMARY LINER.
11. THE ENTIRE PRIMARY LINER INCLUDING RISERS & INLETS IS TO BE STRESS RELIEVED IN ACCORDANCE WITH SPEC. No 5500
12. THE WATERSTOP AT THE BASE SLAB - WALL JOINT IS TO BE 24 OZ. SOFT COPPER SHEET CONTINUOUS WITH ALL SEAMS BRAZED WATERTIGHT
13. THE OUTSIDE SURFACE OF THE CONCRETE WALLS FROM TOP OF WORKING SLAB TO TOP OF TANK IS TO BE DAMPPROOFED PER SECTION BL - SPEC. 3557
14. THE TANK ROOF & ALL SURFACES OF PADS, SHIELDING BLOCKS ETC. SHALL BE COATED WITH "FORMULA #1287 - TYPE B, 36% SOLID BARRIER" CONC. COATING, MANUFACTURED BY THE "RAYLITE COMPANY, BOX 691 WILM. DEL., OR EQUAL
15. FOR ELEVS. TOP OF WORKING SLAB SEE W238154. FOR ELEVS. TOP OF ROOF SEE W238155
16. A MINIMUM CURING PERIOD OF 14 DAYS IS REQUIRED BETWEEN FINAL POUR OF WALLS & INITIAL POUR OF ROOF SLAB.
17. TEMPORARY ROOF SHORING IS TO REMAIN IN PLACE A MINIMUM OF 21 DAYS AFTER COMPLETION OF ROOF SLAB POUR.
18. (10) THE PRIMARY TANK VENTILATION SYSTEM IMPOSES A MAXIMUM NEGATIVE PRESSURE, WITHIN THIS TANK, OF 0.20 PSI. UNDER THIS OPERATING CONDITION, THE ALLOWABLE LIVE LOAD ON THE TANK TOP SHOULD NOT EXCEED 275 P.S.F.



SECTION

INVENTORIED BY DJB DATE 3/30/94

RMD REVIEWED AT REV. 10 DATE 11/13/97

THIS DOCUMENT CONTAINS INFORMATION RELATING TO ACTIVITIES OF THE ATOMIC ENERGY COMMISSION NOT TO BE REPRODUCED OR RELEASED WITHOUT PRIOR APPROVAL.

BLDG.	PROJ.	DA	DWG. TYPE		LATEST REVISION
241-11F	950974	10	44	W238163	10
241-12H	951463	2	43		

SAVANNAH RIVER PLANT
200 AREA BLDG 241-11F
HIGH LEVEL WASTE STORAGE FACILITES
GENERAL ARRANGEMENT & CONST. DETLS
CONCRETE

ENGINEERING DOC. CONTROL - SRS
00021190

REPRODUCED FROM → W236562

PROJ. NO.	REVISIONS	REVISED BY DATE	CHECKED BY DATE	APPROVED BY DATE
950974	1/3 ADDED REFERENCE NOS.	J.J.L. 11-19-69	LOGAN 11-19-69	
950974	4/6 ADDED REFERENCE NOS.	J.J.L. 6-4-71	LOGAN 6-5-71	6-9-71
951463	7 ADD PROJ.NO. / 8 ADD. INFO. TO TITLE BX	5-4-75	LAEFSKY 5-14-75	5/15/75
	10 ADD. NOTE #18			

REFERENCE STANDARDS

REFERENCE DRAWINGS			
BASE SLAB CONCRETE	W238169	RISER & PLUG DETL. CONC.	W238156
WALL & COL. CONCRETE	W238167	EXCAV. PLAN CIVIL	W238154
TOP SLAB REINF. CONCRETE	W238166	DEPT. PLAN CIVIL	W238155
SECONDARY LINER STEEL	W238161	LINER PL. ATTACH. STEEL	W238168
PRIMARY LINER STEEL	W238164	TANK & LINER PL. DETAILS	BPF211896 /6
RISER LAYOUT CONCRETE	W238157	DEHUMIDIFICATION SYSTEM H&V	W238398
		TANK THERMOCOUPLE ACCESS INSTRUM.	W238399
TOP SLAB PLAN SH.1 CONC.	~~W238158~~	TANKS 33 & 34 PLAN-ELECTRICAL	W238564 /1

THIS DRAWING HAS BEEN FURNISHED BY E. I. DU PONT DE NEMOURS & CO. THE INFORMATION AND KNOW-HOW THEREON MAY NOT BE USED NOR THE DRAWING REPRODUCED WITHOUT THE WRITTEN PERMISSION OF DU PONT. ALL REPRODUCTIONS IN WHOLE OR IN PART, INCLUDING VENDOR'S SHOP DRAWINGS, SHALL BEAR OR REFER TO THIS STAMP

PROJECT 950974, 951463
SCALE ½" = 1'-0" JAN 8 1969
DRAWN C. McMULLEN 6/12/69
CHECKED J. J. LOGAN 6-12-69
APPROVED-INITIAL CONSTR. RELEASE
APPROVED-FINAL 12-5-69

E. I. DU PONT DE NEMOURS & COMPANY
INCORPORATED
WILMINGTON, DELAWARE
ENGINEERING DEPARTMENT
W238163