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WASTE ISOLATION FACILITY

IN GRANITE GEOLOGY

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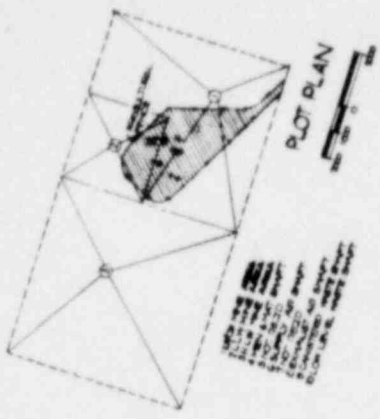
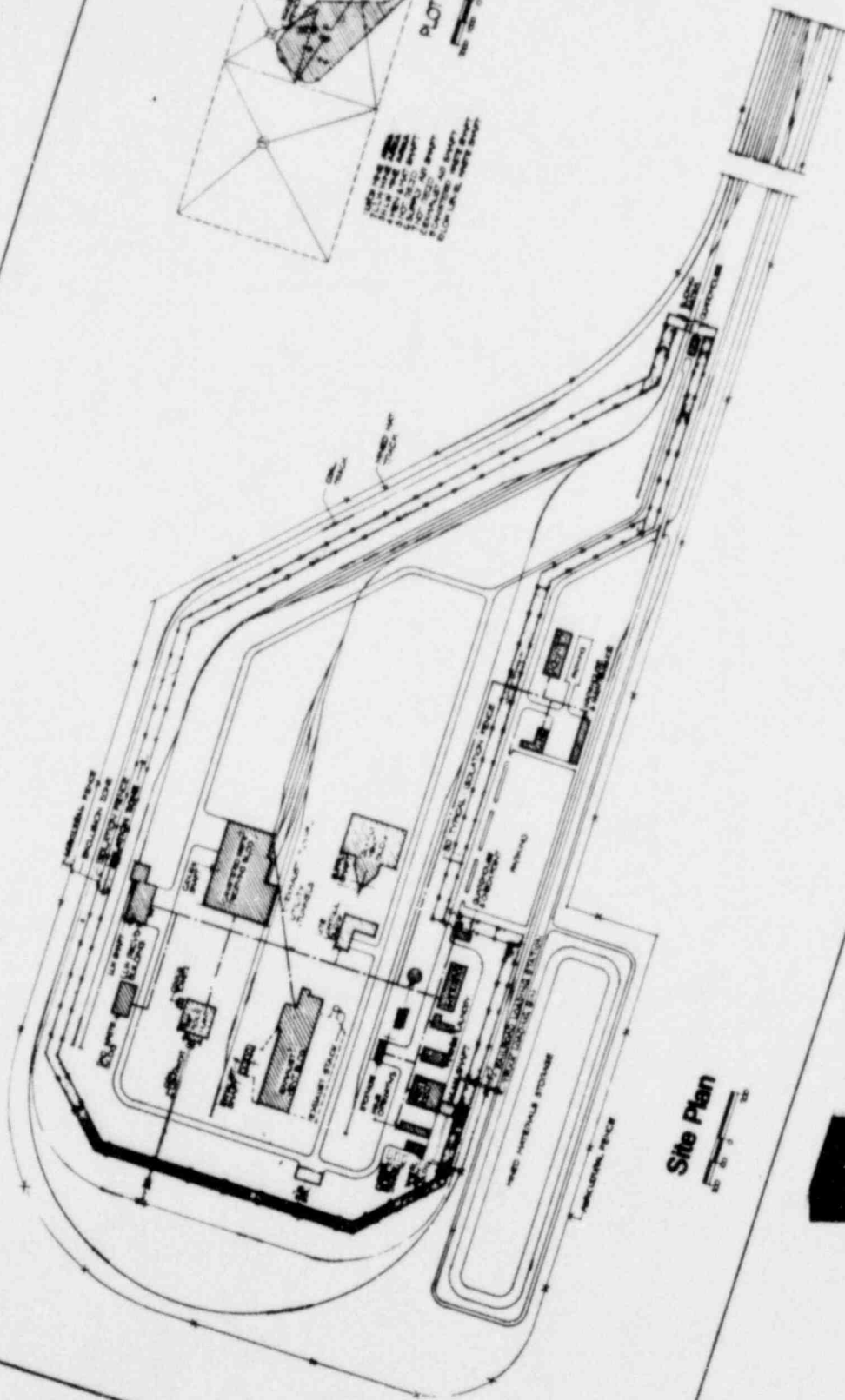
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* NO STORAGE FRAME IS PROVIDED FOR 25 YEAR RETRIEVABLE. ALL WITH AND STEEL CASINGS.

OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 DAYTON, OHIO, 45424

WASTE ISOLATION FACILITY
 INDEX OF DRAWINGS

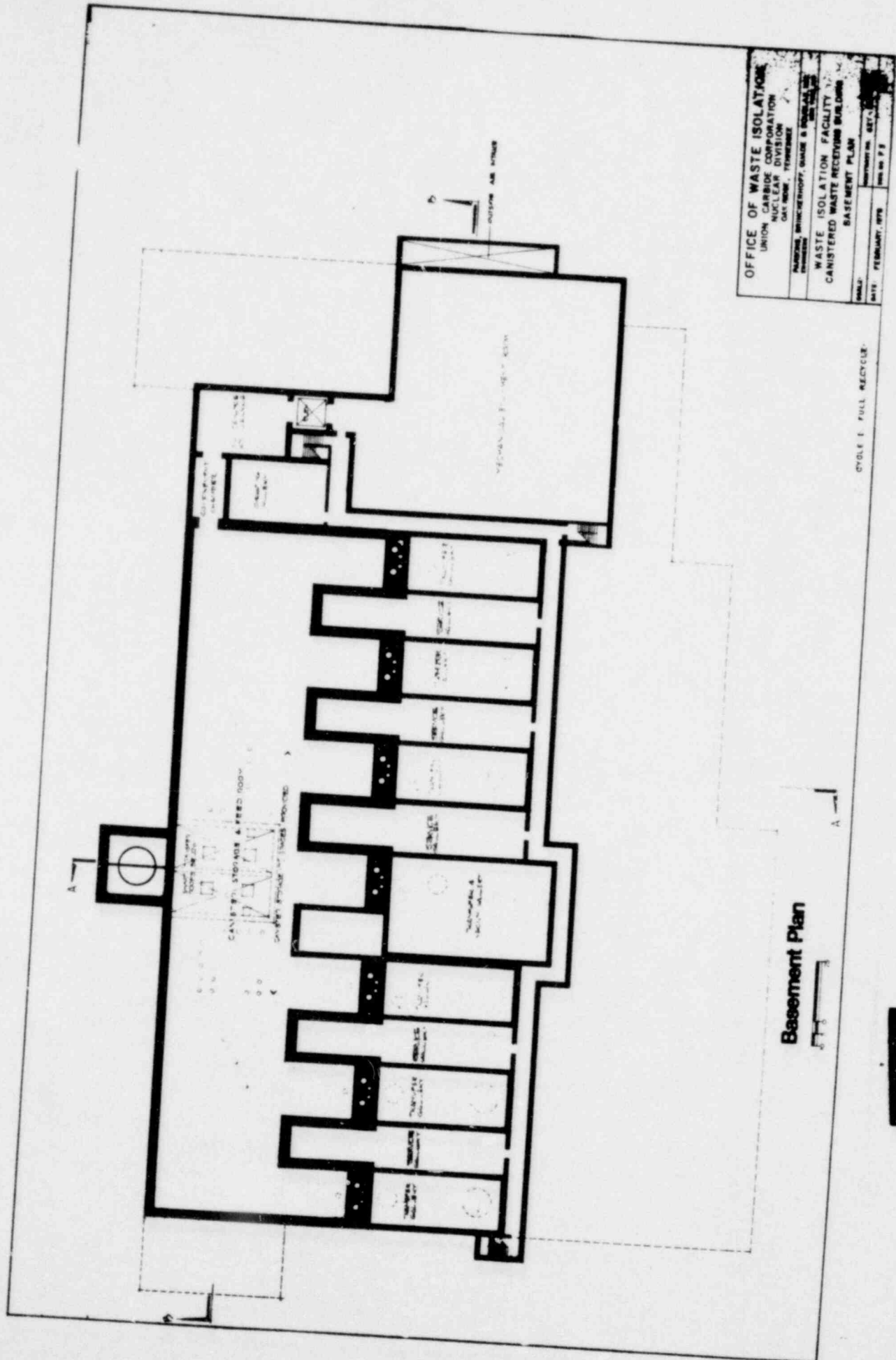
SCALE: NONE SHEET NO. 857 - 857002
 DATE: FEBRUARY, 1978 DRAWN BY: []



Site Plan

OFFICE OF WASTE ISOLATION	
UNION CARBIDE CORPORATION	
NUCLEAR DIVISION	
DAYTON, OHIO 45424	
WASTE ISOLATION FACILITY	
REPOSITORY SITE AND PLOT PLAN	
DATE AS NOTED	DATE OF THIS SHEET
FEBRUARY, 1978	NOVEMBER 28, 1977
	NO. 20 P. 1

CYCLE 1 - FULL RECYCLE



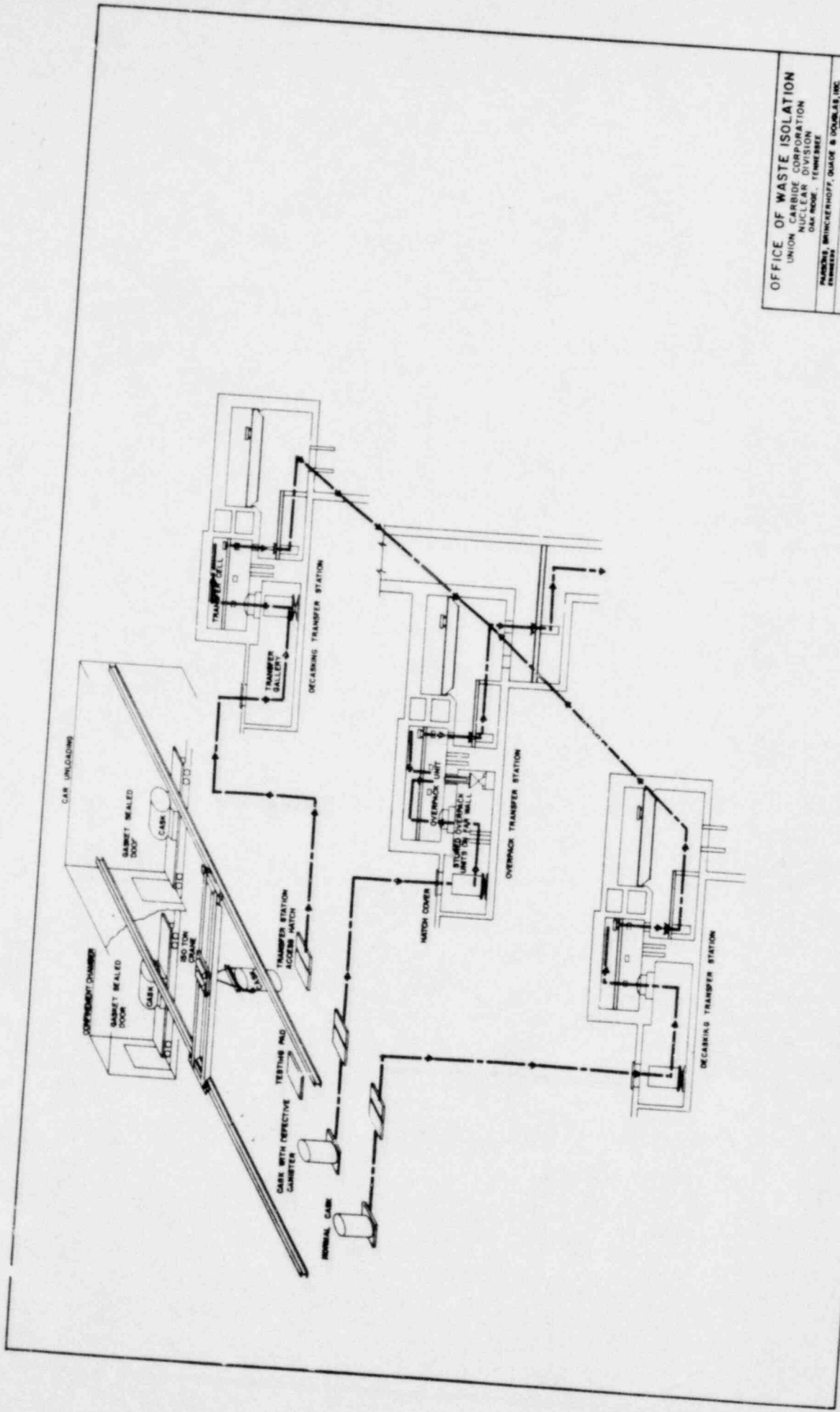
OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 OAK RIDGE, TENNESSEE

WASTE ISOLATION FACILITY
 CANISTERED WASTE RECEIVING BUILDING
 BASEMENT PLAN

DRAWN BY: [illegible]
 CHECKED BY: [illegible]
 DATE: FEBRUARY, 1978

Basement Plan

CYCLE I FULL RECYCLE



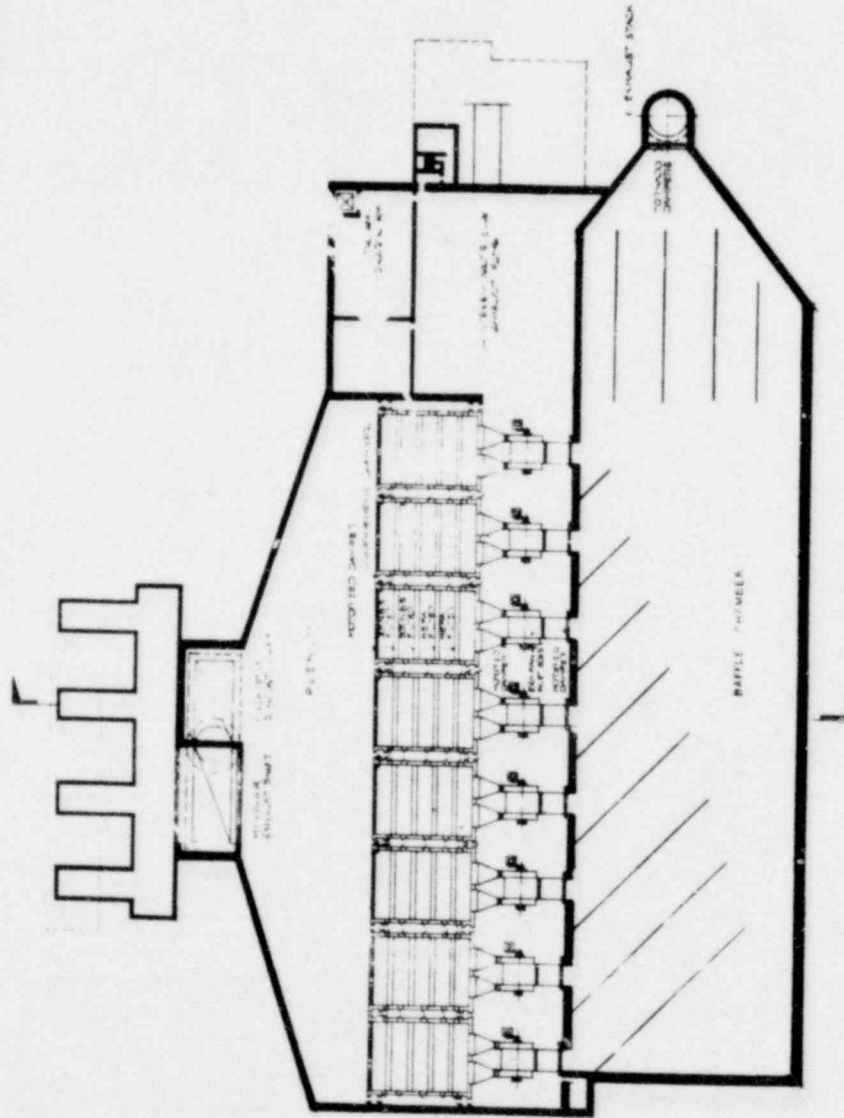
OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 OAK RIDGE - TENNESSEE

PAULSON, BRINCKERHOFF, QUIGG & DOUGLAS, INC.
 ENGINEERS

WASTE ISOLATION FACILITY
 SCHEMATIC FLOW DIAGRAM
 CASKS WITH DEFECTIVE WASTE
 GRANITE - CYCLE 1

SCALE: 3/4" = 1'-0"
 DATE: FEBRUARY, 1978
 DRAWING NO. KEY - 48702C

CYCLE 1 FULL RECYCLE



Basement Plan

<p>OFFICE OF WASTE ISOLATION UNION CARBIDE CORPORATION NUCLEAR DIVISION OAK RIDGE, TENNESSEE</p>
<p>PAULINE BRUNCKHOFF, QUADE & DOUGLAS, INC. ENGINEERS</p>
<p>WASTE ISOLATION FACILITY EXHAUST VENT BUILDING 22,222 SQ. FT.</p>
<p>GRAPHS - CYCLE 1 - 5 18 45 70 85 100 102 C SCALE AS SHOWN DATE FEBRUARY, 1978</p>

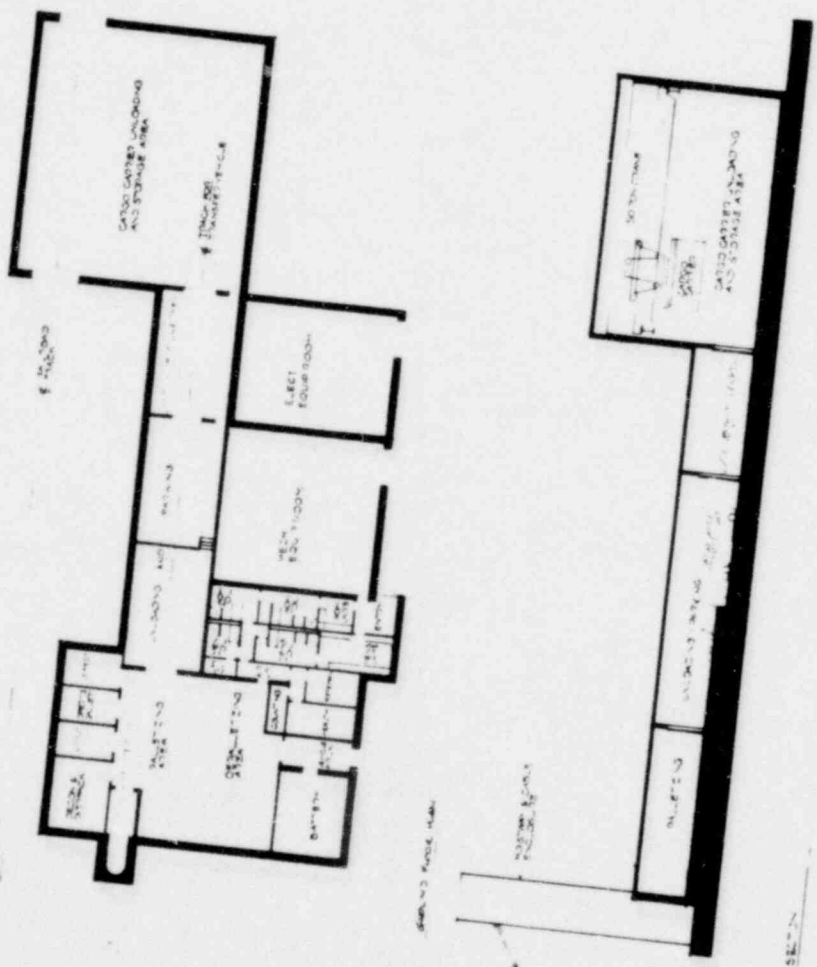
CYCLE 1 - FULL RECYCLE

OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 OAK RIDGE, TENNESSEE

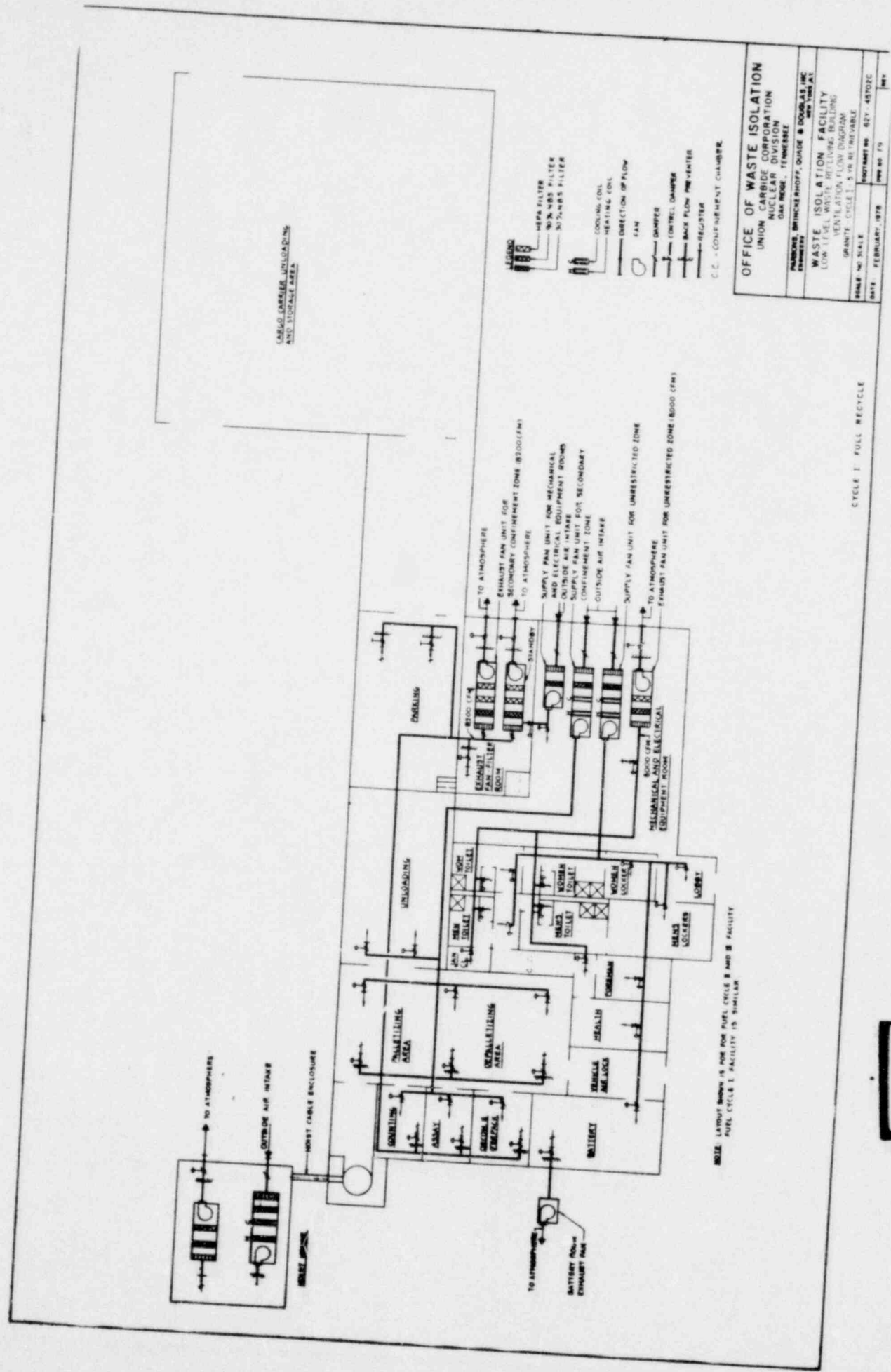
PAULINE BRICKERHOFF, QUATE & BOULLE, INC.
 ENGINEERS
 1000 W. MAIN ST.
 MEMPHIS, TENNESSEE

WASTE ISOLATION FACILITY
 LOW LEVEL WASTE RECEIVING BUILDING
 GROUND FLOOR PLAN AND SECTIONS
 PROJECT TITLE: 515-210-RECYCLE

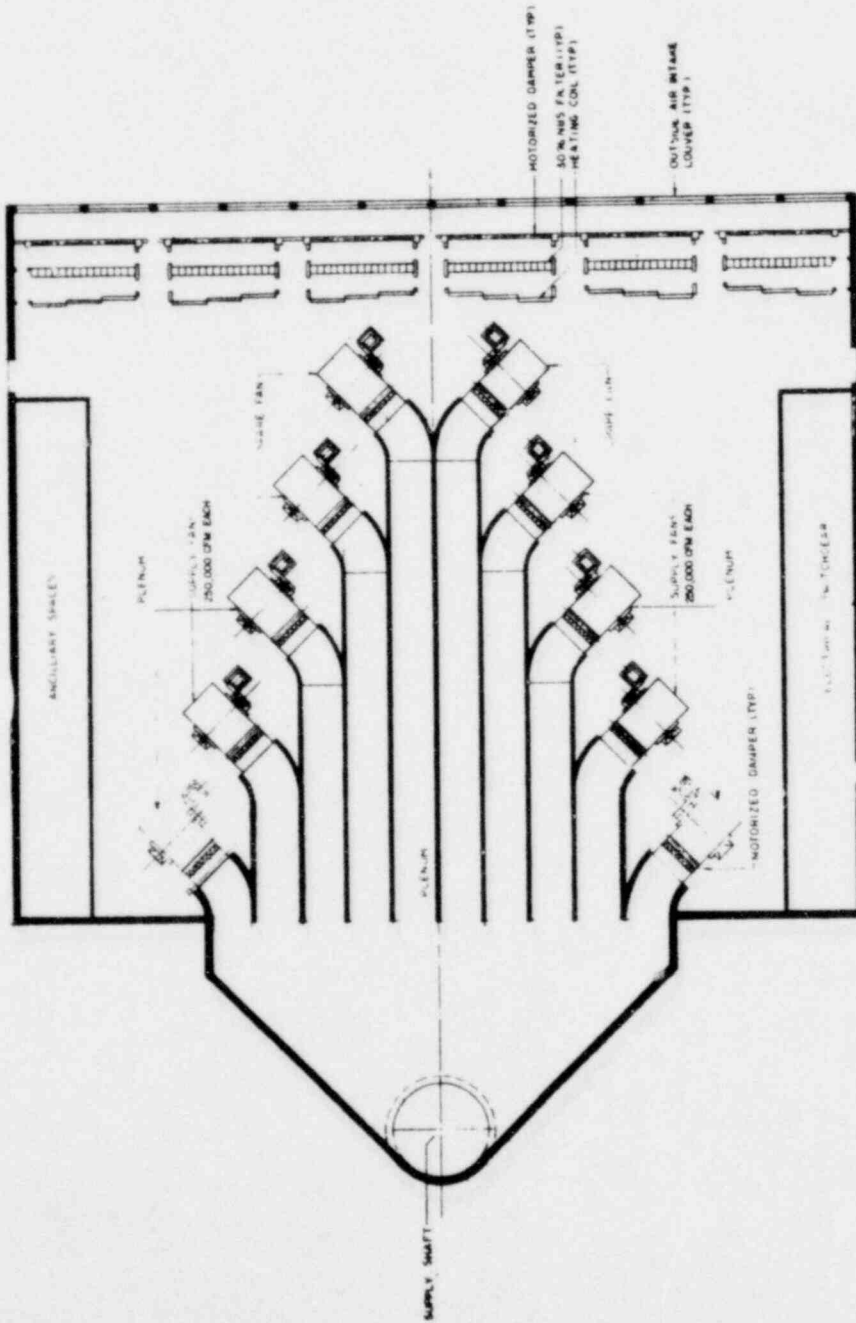
DATE: FEBRUARY, 1978 CONTRACT NO. 621-48702C
 DWG NO. 1 1 1



CYCLE I FULL RECYCLE



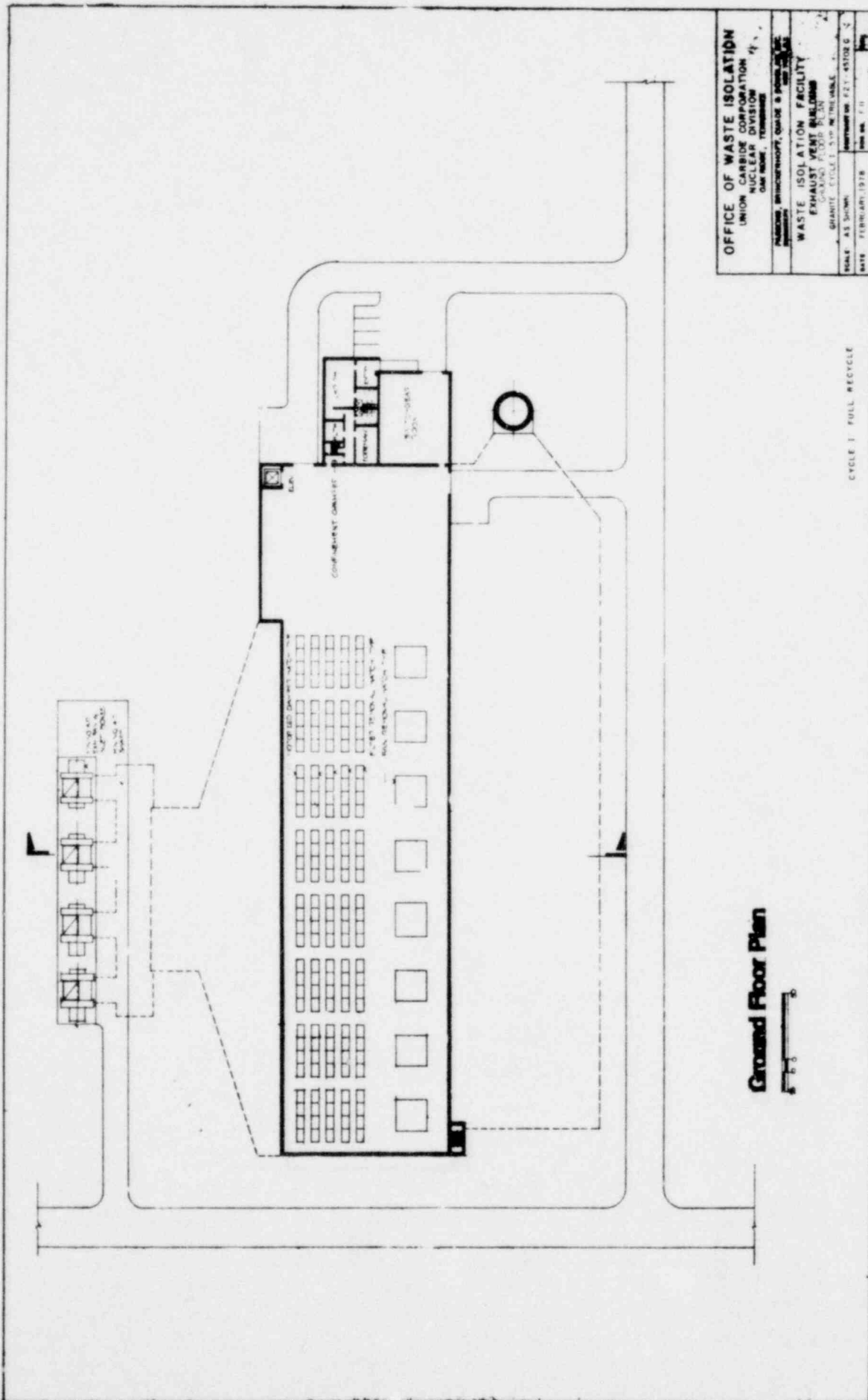
CYCLE I - FULL RECYCLE



OFFICE OF WASTE CONTROL	
UNION DAMPING CONTROL	
MUCH FAN	
10-10-10-10	
WASTE ISOLATION	
SUPPLY VENTILATION BUILDING	
BRANDS - SOLA	NO. 100
MADE AS SHOWN	DATE 11
MAN	11

CYCLE 1: FAN: 880-414

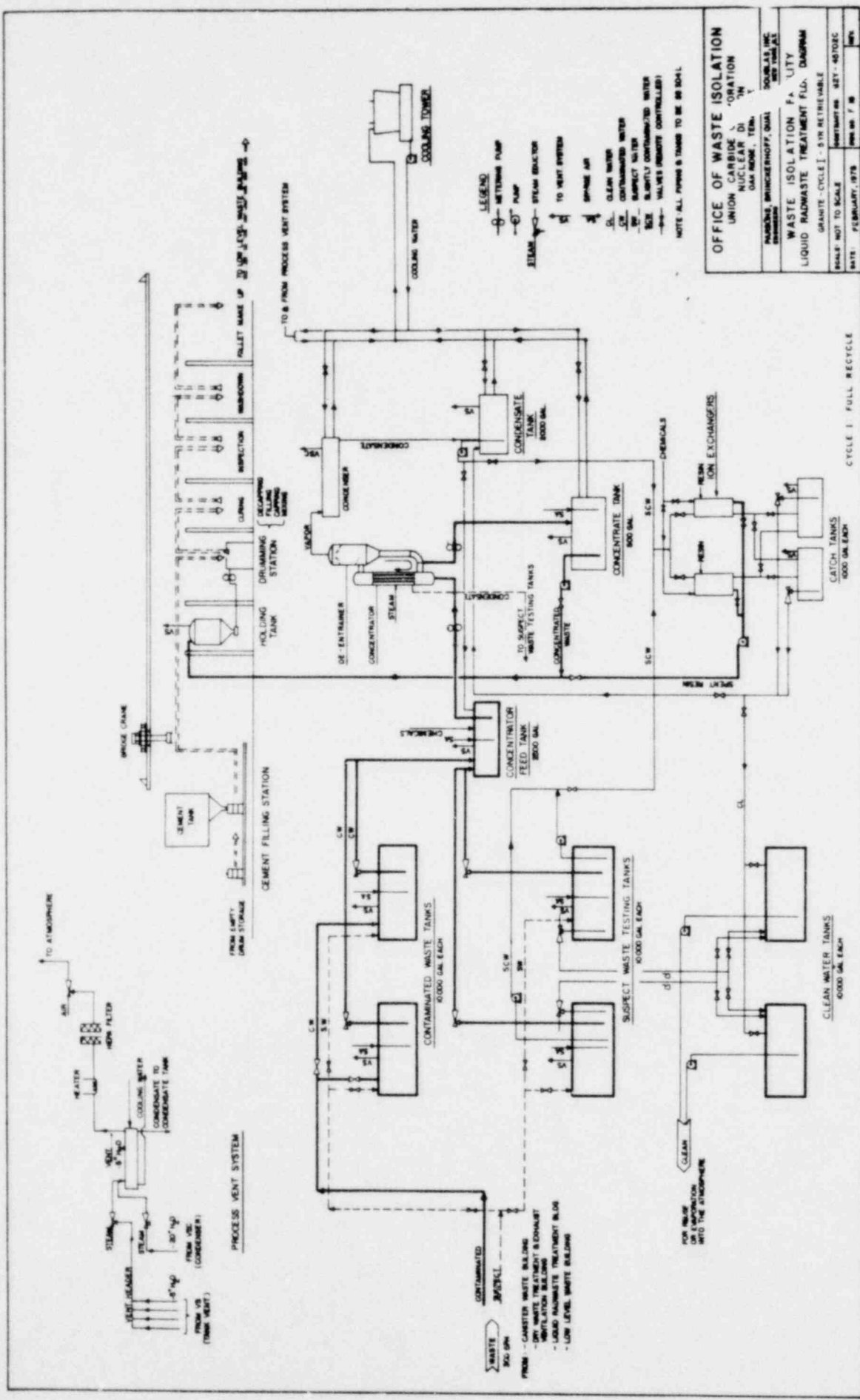
FLOOR PLAN



OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 OAK RIDGE, TENNESSEE
 PROJECT: WASTE ISOLATION FACILITY, GRADE 8 POWER PLANT
 DRAWING NO. 82-1000-1000
WASTE ISOLATION FACILITY
EXHAUST VENT BUILDING
 GROUND FLOOR PLAN
 GRANITE CYCLE 1.5 IN. METRIC SCALE
 SCALE: AS SHOWN
 DATE: FEBRUARY 1978
 DRAWN BY: F. J.

Ground Floor Plan
 0 10
 FEET

CYCLE 1 FULL RECYCLE



LEGEND

- RETURN PUMP
- PUMP
- STEAM SELECTOR
- TO HEAT SYSTEM
- SPRAY AIR
- CLEAN WATER
- CONTAMINATED WATER
- SUSPECT WATER
- SUPPLY CONTAMINATED WATER
- VALVES (REMOTE CONTROLLED)

NOTE ALL PIPING & TANKS TO BE 30" DIA.

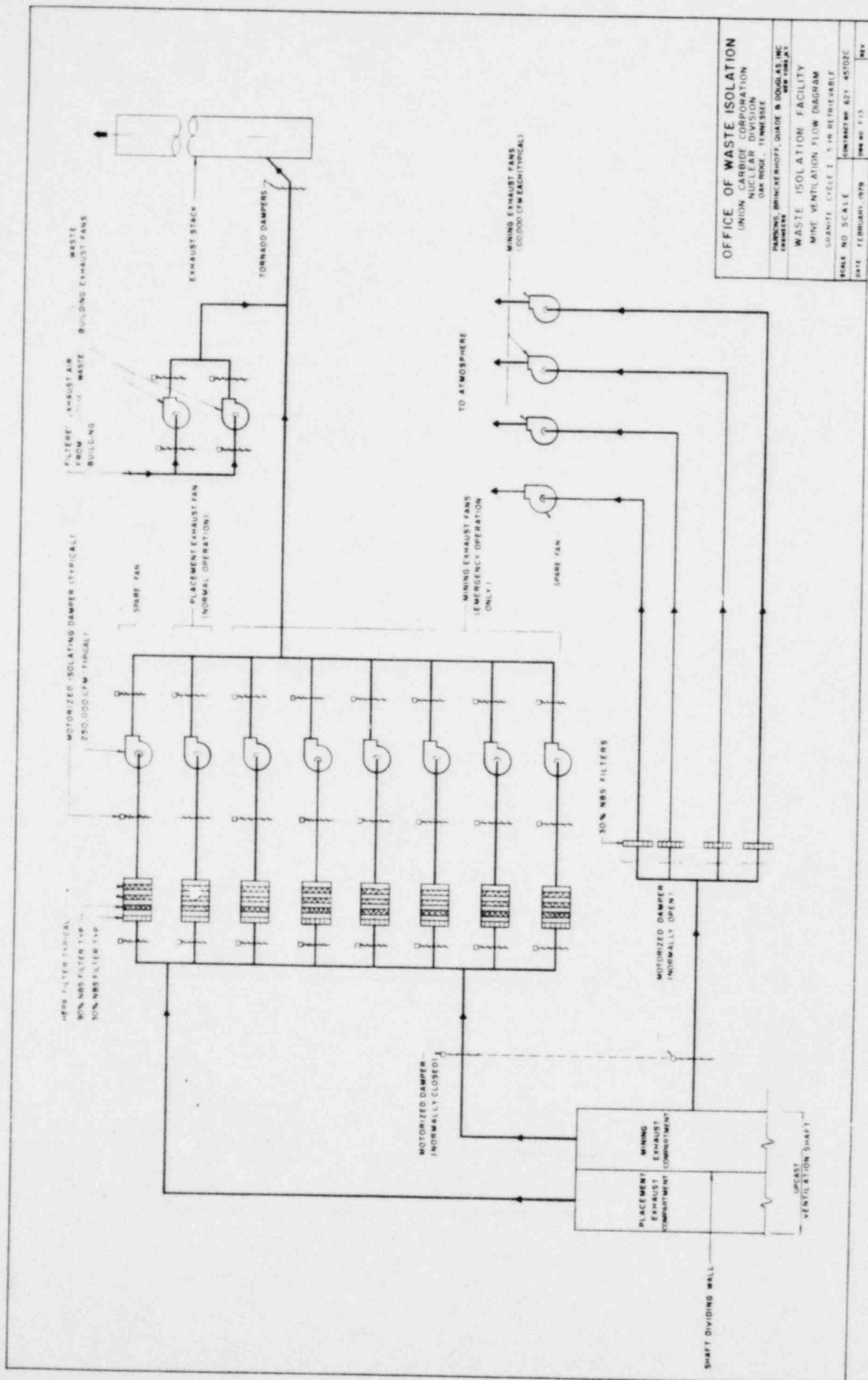
OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 OAK RIDGE, TENN.

PARSONS BRINCKERHOFF, QUAL
 SOUTH AS, INC.
 1978

WASTE ISOLATION FACILITY
 LIQUID RADWASTE TREATMENT P.L.D. DIAGRAM

GRANITE-CYCLE I - SIX RETRIEVABLE
 HALF-ROT TO SCALE
 INSTRUMENT KEY - 45102C
 DATE: FEBRUARY, 1978

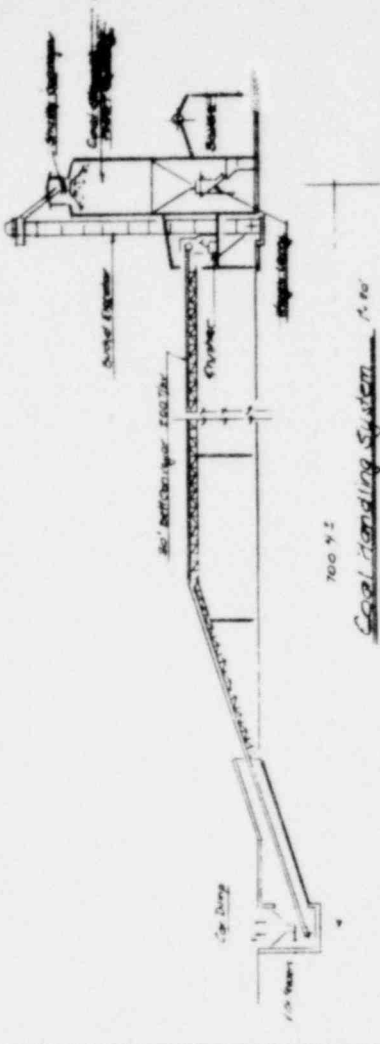
CYCLE I - FULL RECYCLE



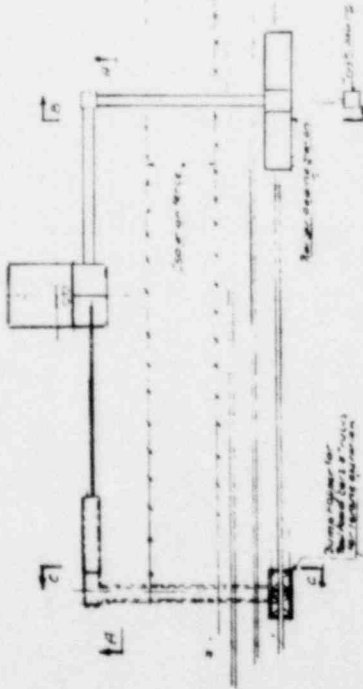
OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 OAK RIDGE, TENNESSEE

WASTE ISOLATION FACILITY
 MINE VENTILATION FLOW DIAGRAM
 SHARITE CYCLE I - 5 YR RETRIEVABLE

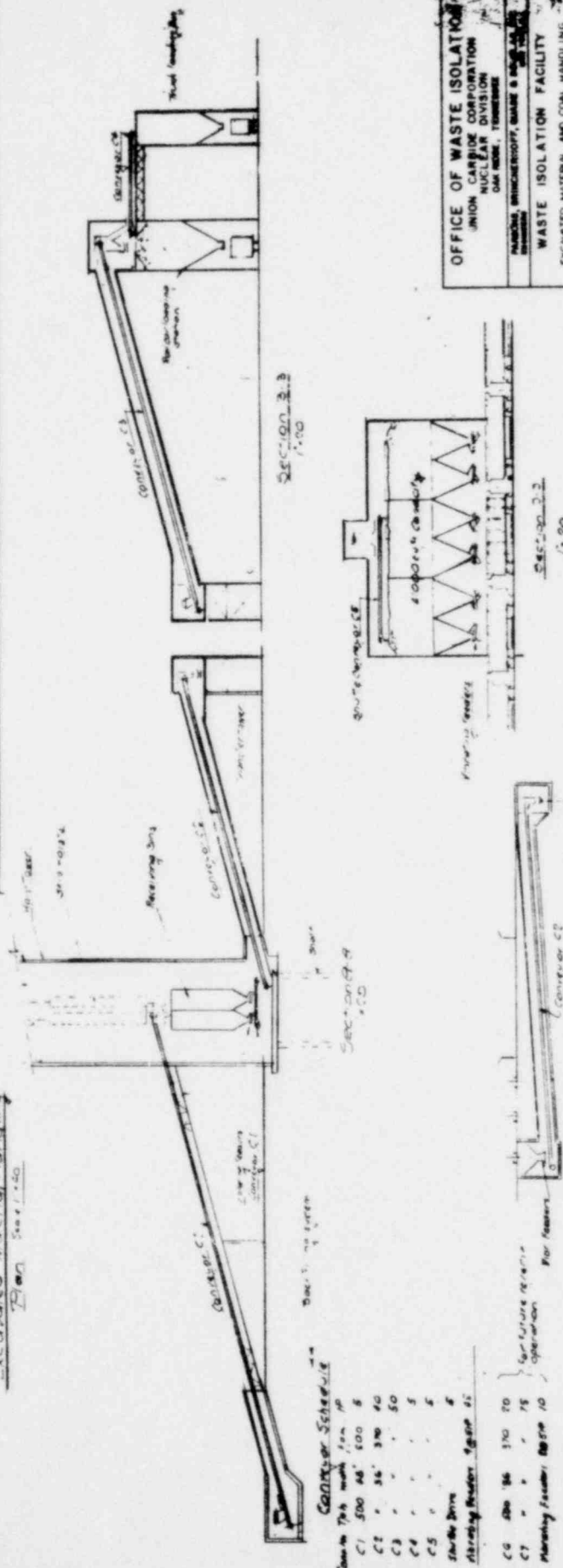
SCALE: NO SCALE
 DATE: FEBRUARY, 1979
 DRAWING NO: 827-45702C
 REV: 1



Coal Handling System 700 Y2



Excavated Material Handling 10' Feeder



Conveyor Schedule

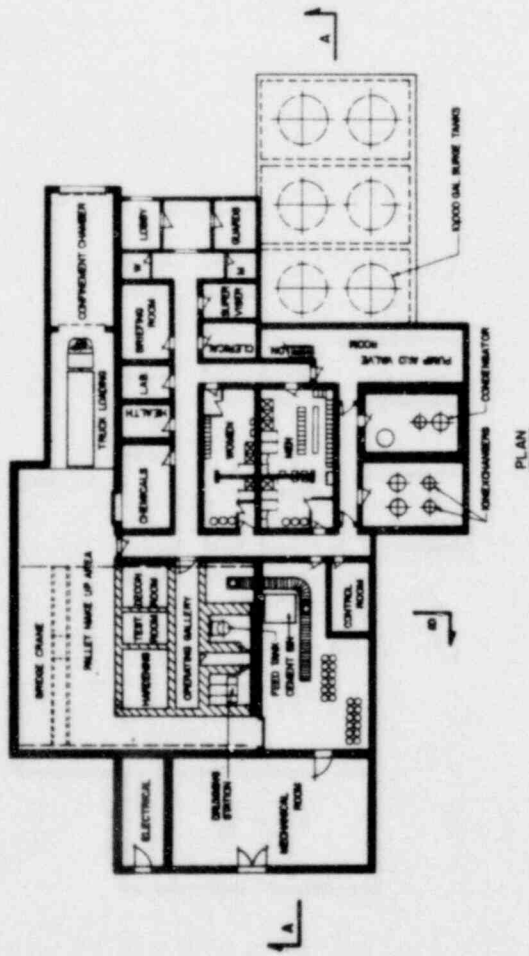
Conveyor	Length	Speed	Capacity
C1	500	45'	100
C2	36	30	40
C3	-	-	50
C4	-	-	5
C5	-	-	5
C6	-	-	5
C7	-	-	5
C8	-	-	5
C9	-	-	5
C10	-	-	5
C11	-	-	5
C12	-	-	5
C13	-	-	5
C14	-	-	5
C15	-	-	5
C16	-	-	5
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C94	-	-	5
C95	-	-	5
C96	-	-	5
C97	-	-	5
C98	-	-	5
C99	-	-	5
C100	-	-	5

OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 WASTE ISOLATION DIVISION
 ONE N. W. CORNER, MEMPHIS, TENNESSEE

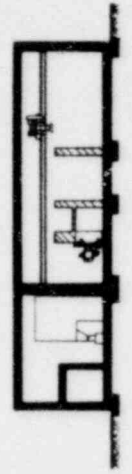
WASTE ISOLATION FACILITY
 EXCAVATED MATERIAL AND COAL HANDLING

SCALE AS NOTED
 DATE: FEBRUARY, 1978

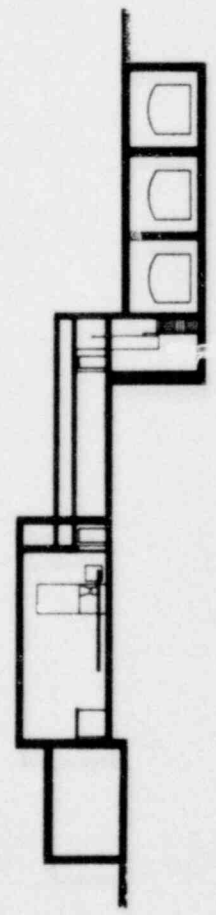
CYCLE 1: FULL RECYCLE



PLAN



SECTION B-B

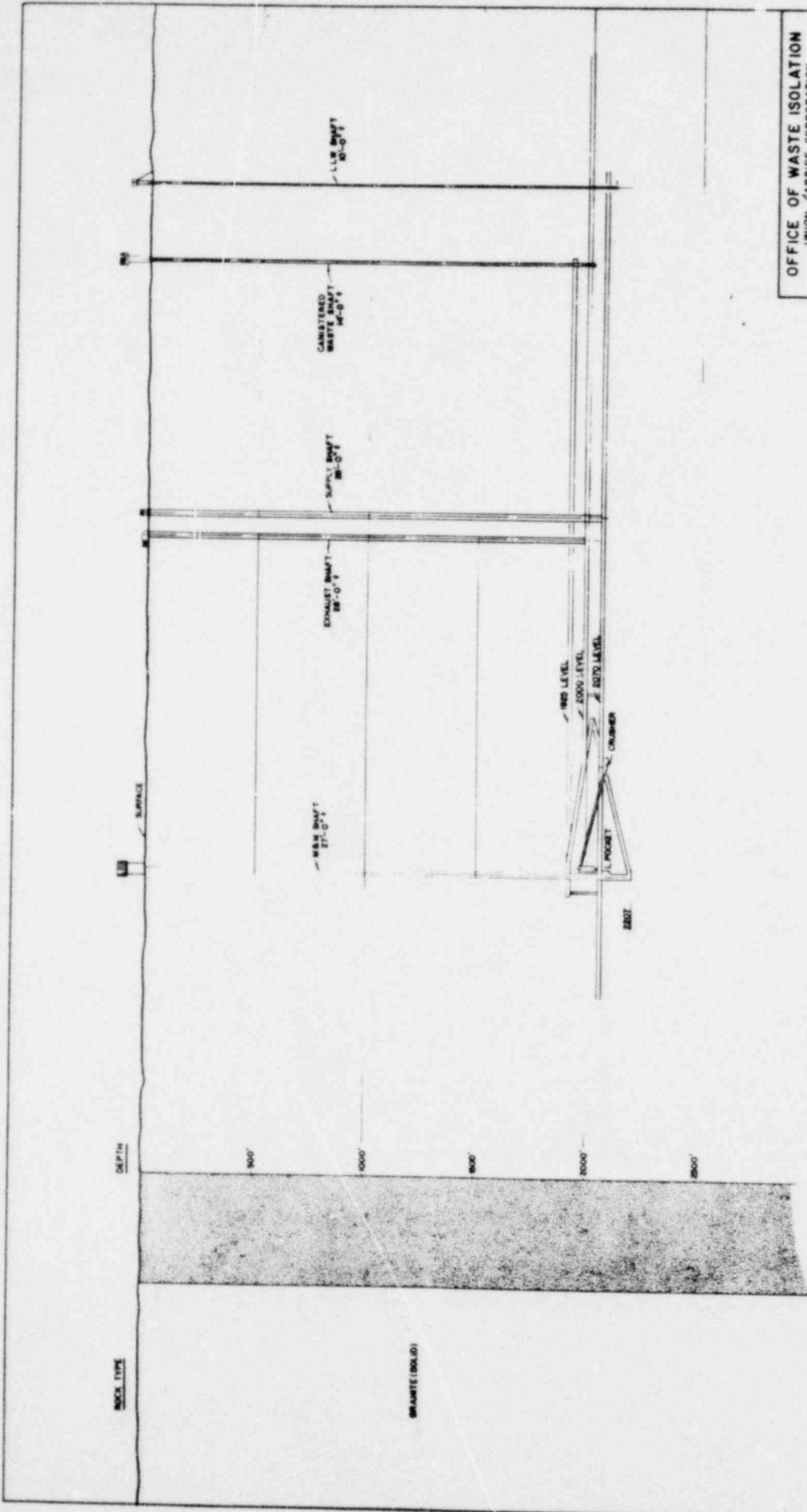


SECTION A-A



OFFICE OF WASTE ISOLATION UNION CARBIDE CORPORATION WASTE ISOLATION DIVISION 200 N. W. 11th St. DALLAS, TEXAS 75201	
WASTE ISOLATION FACILITY LIQUID RADWASTE TREATMENT BUILDING GRANTE - CYCLE 1, 518 RETRIEVABLE	
ARCHITECT: BRUNNENBERG, GUARD & DONALDSON INC. 1000 N. W. 11th St. MIAMI, FLORIDA 33136	CONTRACT NO. 857-010008 DATE: FEBRUARY, 1978

CYCLE 1 - FULL RECYCLE



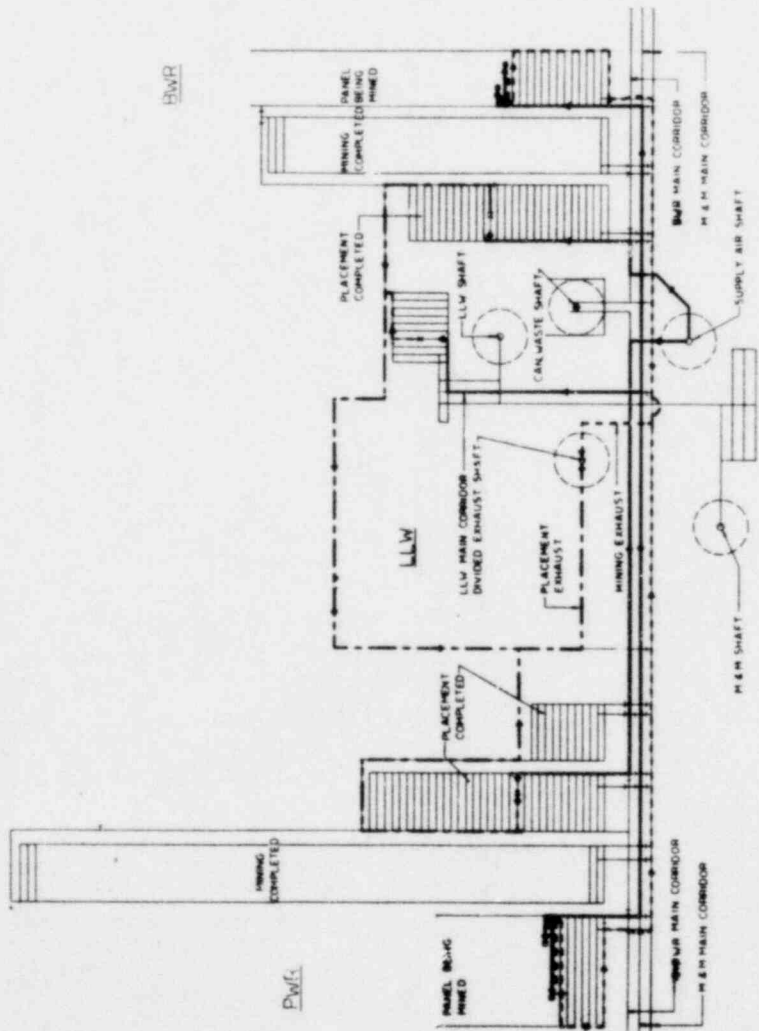
OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 OAK RIDGE, TENNESSEE

PANDOLF, BRINCKERHOFF, SHADE & DOUGLAS, INC.
 ENGINEERS
 1000 W. YORK ST.
 MEMPHIS, TENNESSEE

WASTE ISOLATION FACILITY
 GRANITE CYCLE I STRATIGRAPHY

SCALE: 1" = 100'
 SHEET NO. 627-45702C
 DATE: FEBRUARY, 1978

CYCLE I FULL RECYCLE



- LEGEND**
- PLACEMENT EXHAUST AIR
 - - - MINING EXHAUST AIR
 - PLACEMENT & MINING SUPPLY AIR
 - PLACEMENT IN PROGRESS
 - MINING IN PROGRESS
 - ROOM OR CORRIDOR SEALED

OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 OAK RIDGE - TENNESSEE

WASTE ISOLATION FACILITY
 MINE VENTILATION PLAN
 GRANITE CYCLE I - 5 YEAR RETRIEVABLE

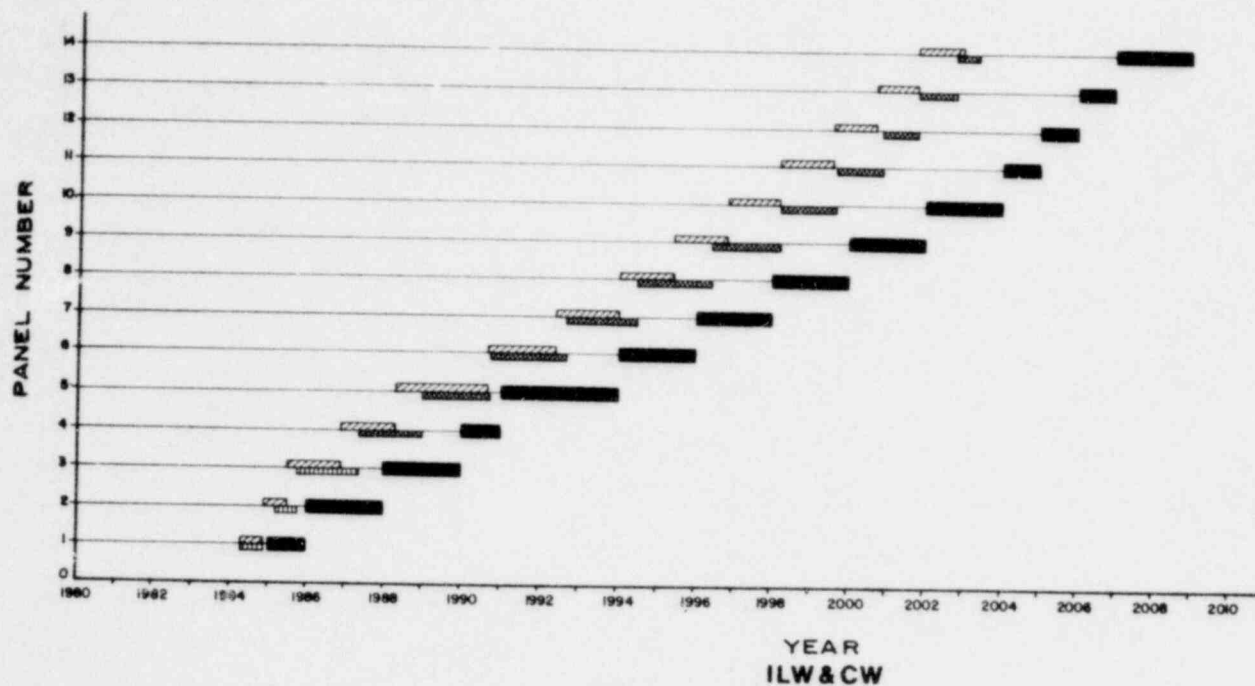
DATE: FEBRUARY, 1974

PARTIAL PLAN
MINING AND PLACEMENT VENTILATION
 FOR CYCLE I - ABOUT SHOW - CYCLES I & II

CYCLE I - FULL RECYCLE

MINING AND PLACEMENT SCHEDULE

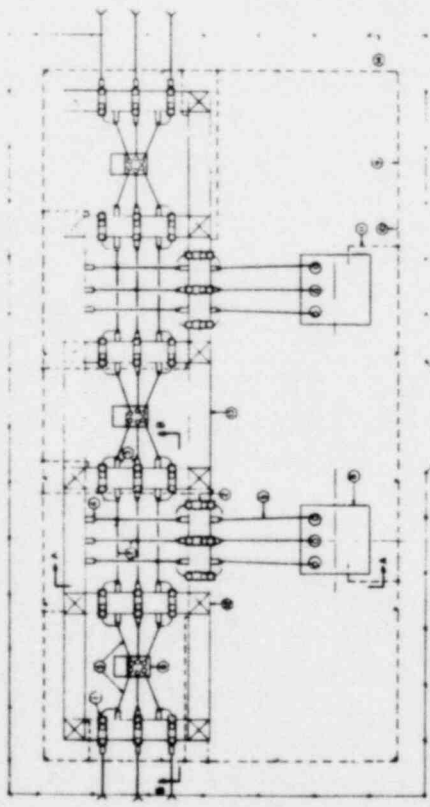
GRANITE - CYCLE I - 5 YEARS RETRIEVABLE



- LEGEND**
- MINING
 - TRENCHING & SLEEVE PLACEMENT
 - TRENCHING
 - CANISTER PLACEMENT

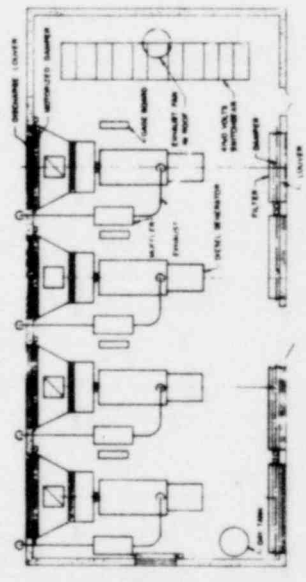
OFFICE OF WASTE ISOLATION	
UNION CARBIDE CORPORATION	
NUCLEAR DIVISION	
OAK RIDGE, TENNESSEE	
PARKS, BRINCKERHOFF, QUADE & DOUGLAS, INC.	
ENGINEERS	
WASTE ISOLATION FACILITY	
ILW&CW MINING AND PLACEMENT SCHEDULE	
GRANITE - CYCLE I - 5 YR. RETRIEVABLE	
SCALE:	CONTRACT NO. 467-46702C
DATE: FEBRUARY, 1978	DWG. NO. F 24

CYCLE I - FULL RECYCLE

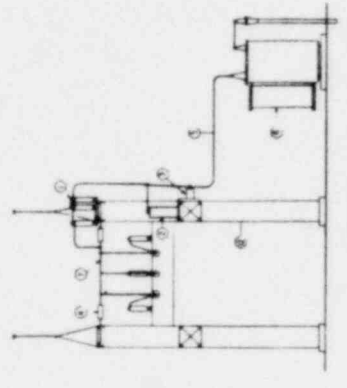


SUB-STATION PLAN

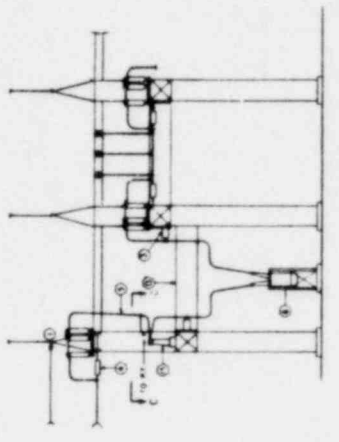
ITEM	DESCRIPTION
1	1000 KVA TRANSFORMER
2	1000 KVA TRANSFORMER
3	1000 KVA TRANSFORMER
4	1000 KVA TRANSFORMER
5	1000 KVA TRANSFORMER
6	1000 KVA TRANSFORMER
7	1000 KVA TRANSFORMER
8	1000 KVA TRANSFORMER
9	1000 KVA TRANSFORMER
10	1000 KVA TRANSFORMER
11	1000 KVA TRANSFORMER
12	1000 KVA TRANSFORMER
13	1000 KVA TRANSFORMER
14	1000 KVA TRANSFORMER
15	1000 KVA TRANSFORMER
16	1000 KVA TRANSFORMER



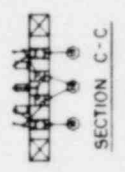
STANDBY GENERATOR



SECTION A-A



SECTION B-B



SECTION C-C

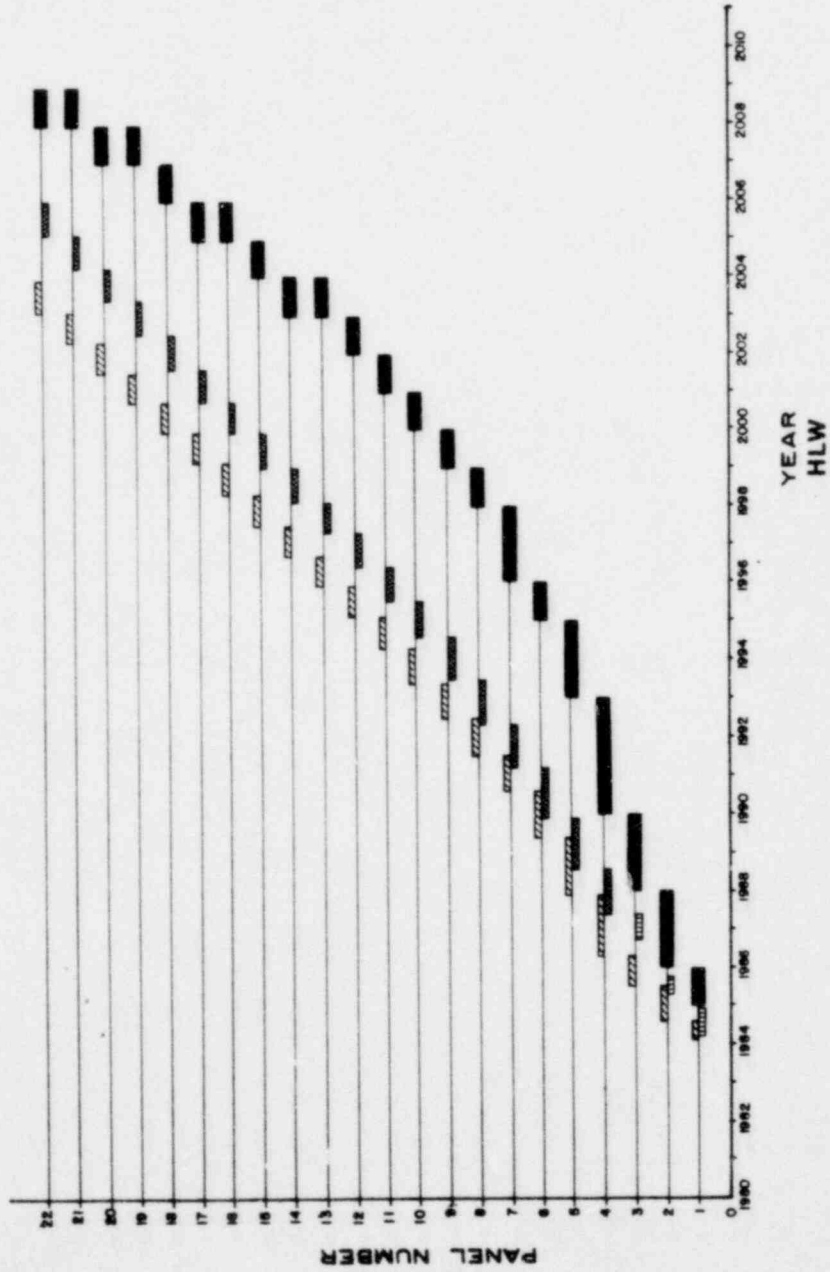
OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 OAK RIDGE, TENNESSEE

WASTE ISOLATION FACILITY
 MAIN ELECTRICAL SUBSTATION
 AND STANDBY GENERATOR

PROJECT NO. 827-45702C
 SHEET NO. 1/1
 DATE: FEBRUARY, 1978

MINING AND PLACEMENT SCHEDULE

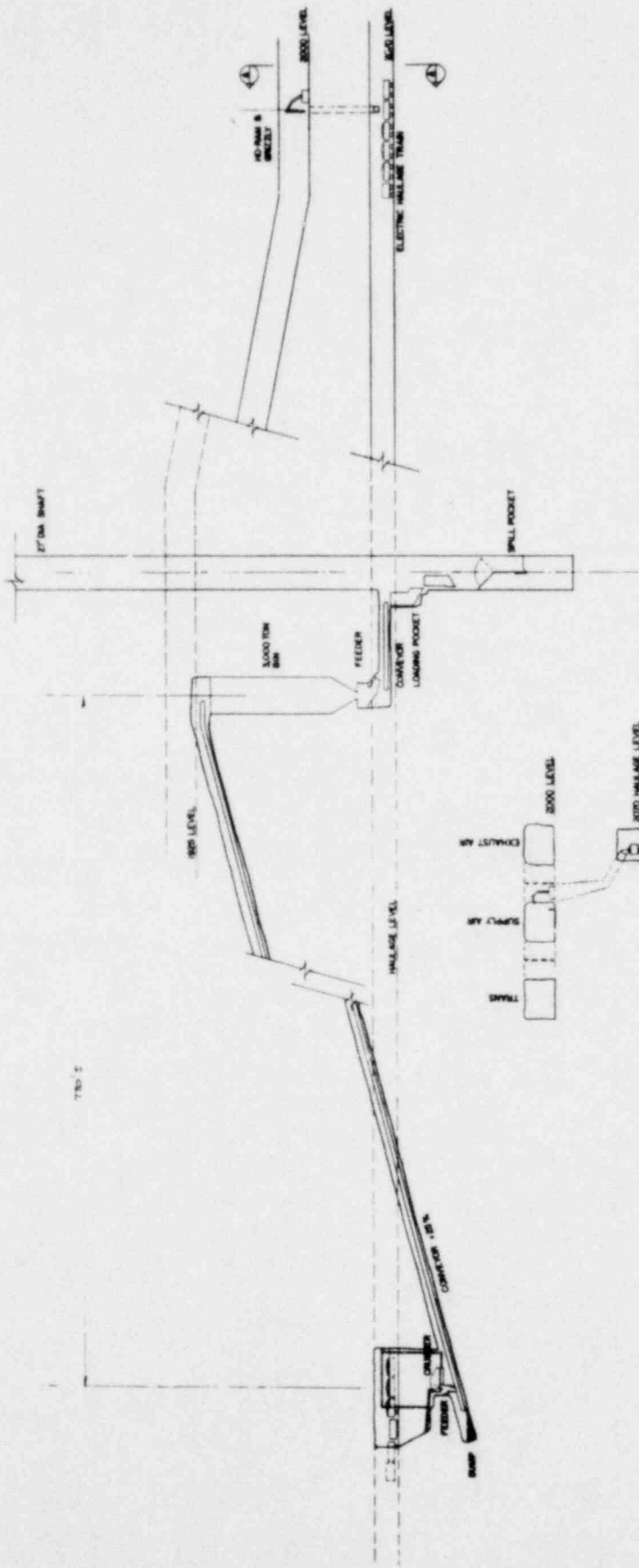
GRANITE - CYCLE I - 5 YEARS RETRIEVABLE



YEAR
HLW

CYCLE I FULL RECYCLE

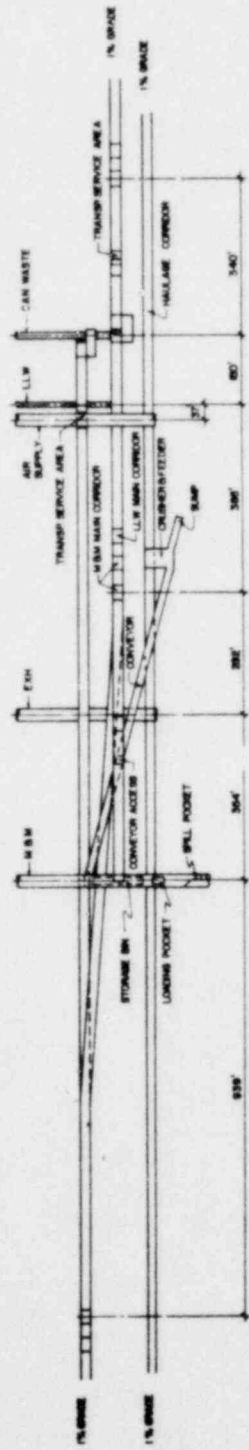
OFFICE OF WASTE ISOLATION	
UNION CARBIDE CORPORATION NUCLEAR DIVISION OAK RIDGE, TENNESSEE	
HARRIS, MINCKHOFF, QUINN & DOUGLAS, INC. MEMPHIS, TENNESSEE	
WASTE ISOLATION FACILITY HLW MINING AND PLACEMENT SCHEDULE	
GRANITE - CYCLE I - 5YR. RETRIEVABLE	
SCALE	CONTRACT# 617-45702C
DATE: FEBRUARY, 1978	REV. NO. 7.3



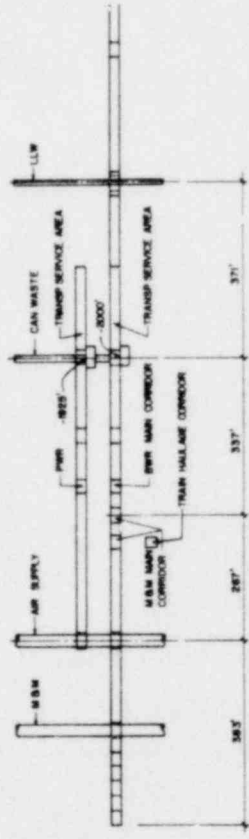
780 2

CYCLE 1 FULL RECYCLE

OFFICE OF WASTE ISOLATION UNION CARBIDE CORPORATION NUCLEAR DIVISION OAK RIDGE, TENNESSEE	
NATIONAL BRUNNENHOFF, QUIGLE & DONOHUE, INC. ENGINEERS 1000 W. 10TH ST. OAK RIDGE, TENNESSEE	
WASTE ISOLATION FACILITY CRUSHER/CONVEYOR SYSTEM - SECTION	
SHARPLEY - LEVEL 1 - 8.10. REVISIONABLE	
DRAWN BY:	CHECKED BY: 817 - 87022C
DATE: FEBRUARY, 1978	SHEET NO. P 30



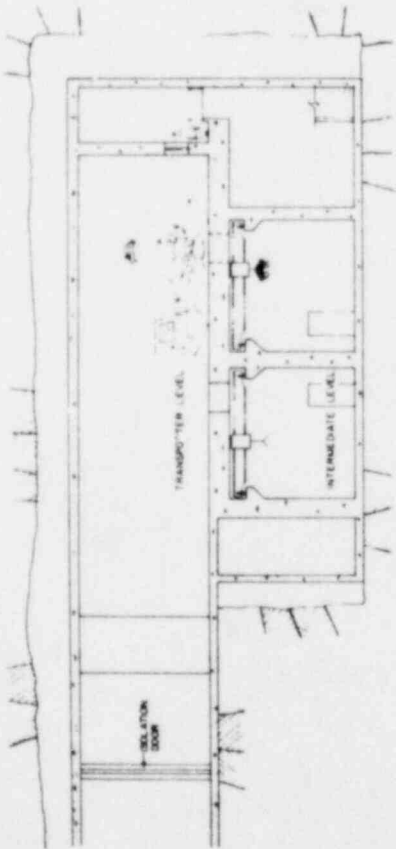
SECTION A-A



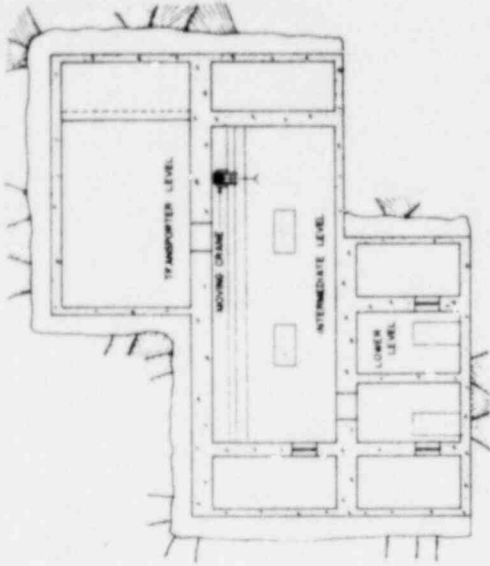
SECTION B-B

OFFICE OF WASTE ISOLATION UNION CARBIDE CORPORATION NUCLEAR DIVISION OAK RIDGE, TENNESSEE	
PARKING, BRUNCKENHOFF, QUADE & DOUGLAS, INC. ENGINEERS	
WASTE ISOLATION FACILITY	
SECTION A-A & B-B	
SCALE: 1" = 30' DATE: FEBRUARY, 1978	CONTRACT NO: 857-48700C DRAWING NO: 100-80-F-27

CYCLE I FULL RECYCLE

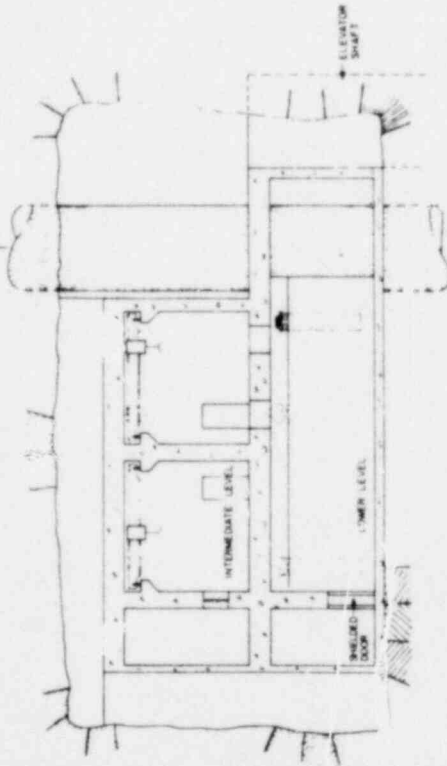


SECTION A-A



SECTION B-B

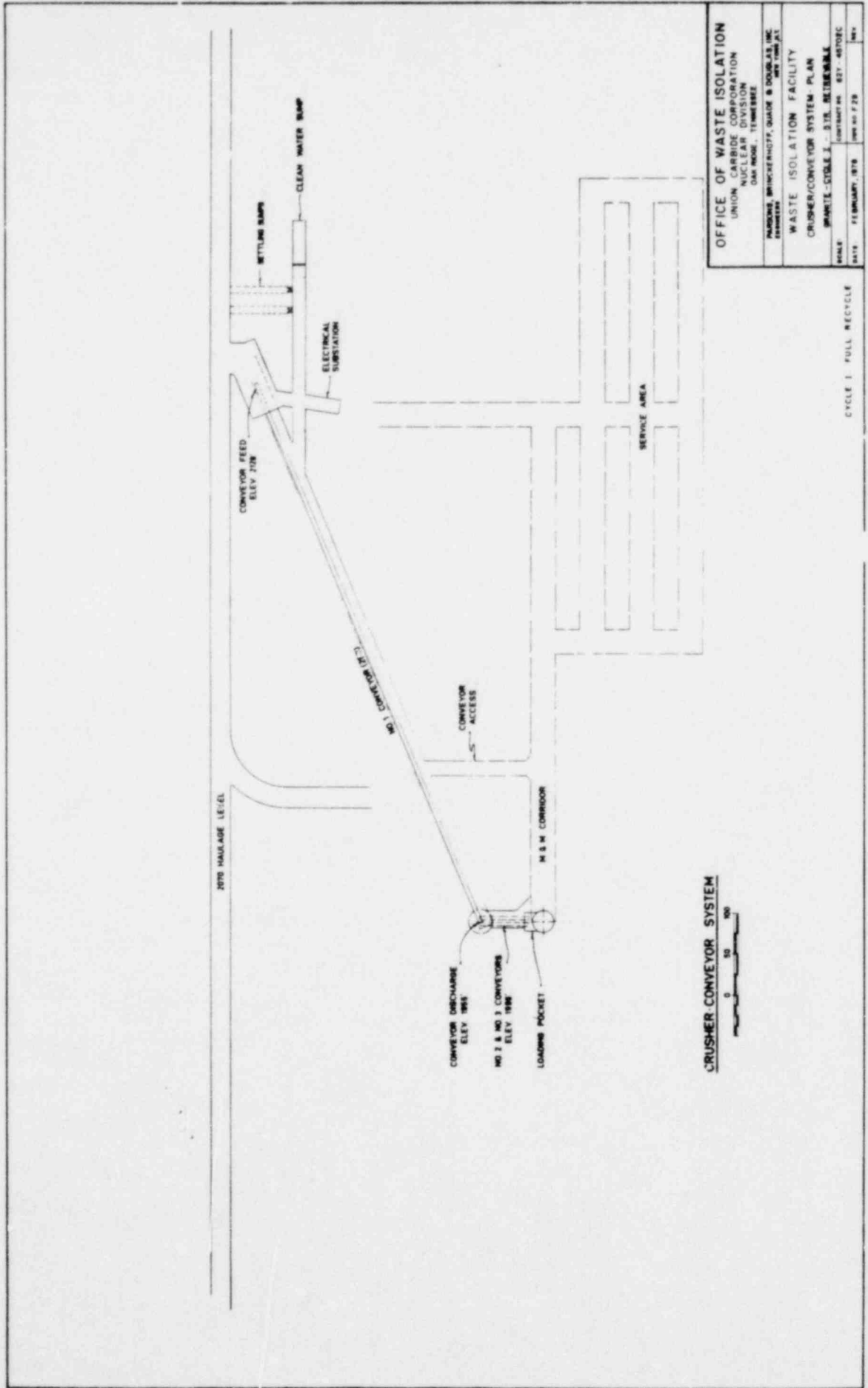
TO CONTAINERED WASTE HANDLING BLDG.



SECTION C-C

OFFICE OF WASTE ISOLATION	
UNION CARBIDE CORPORATION	
NUCLEAR DIVISION	
DUNN, BRUCKNERHOFF, GARDNER & DODD, INC.	
ARCHITECTS	
WASTE ISOLATION FACILITY	
CANISTERED WASTE SUBSPACE	
RECEIVING STATION SECTIONS	
SCALE: 1/4" = 1'-0"	DATE: FEBRUARY, 1978
CONTRACT NO. 487-48702C	REV. NO. 7.12
DATE: FEBRUARY, 1978	REV. NO. 7.12

CYCLE I: FULL RECYCLE

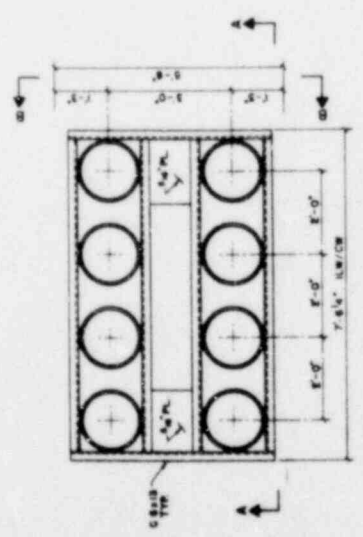


CRUSHER CONVEYOR SYSTEM

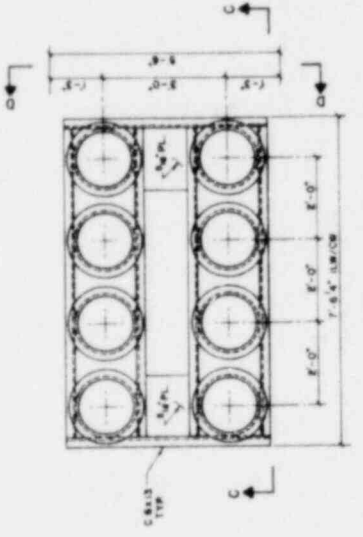


OFFICE OF WASTE ISOLATION	
UNION CARBIDE CORPORATION NUCLEAR FUEL DIVISION 800 DOUGLASS AVENUE DAVIDSON, TENNESSEE	
WASTE ISOLATION FACILITY	
CRUSHER/CONVEYOR SYSTEM - PLAN	
SCALE	DATE
1" = 50'	FEBRUARY, 1978
DRAWN BY: J. J. B. BENTON	
CHECKED BY: J. J. B. BENTON	
DATE: FEBRUARY, 1978	
PROJECT NO. F-28	
SHEET NO. 1	

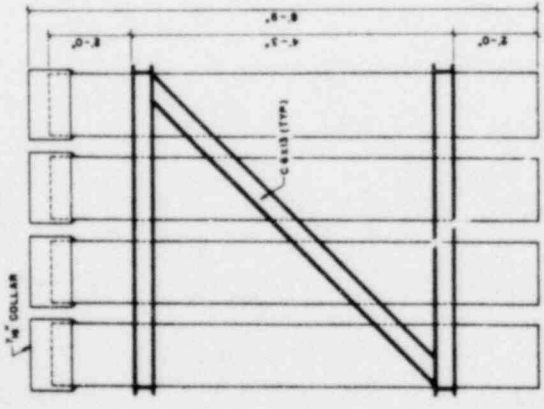
CYCLE I - FULL RECYCLE



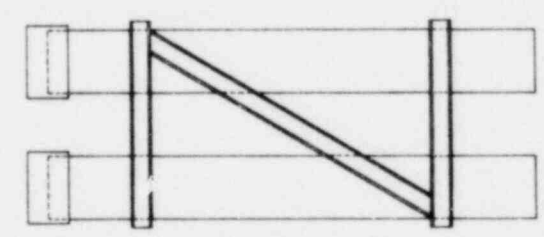
CANISTER PLACEMENT ASSEMBLY PLAN



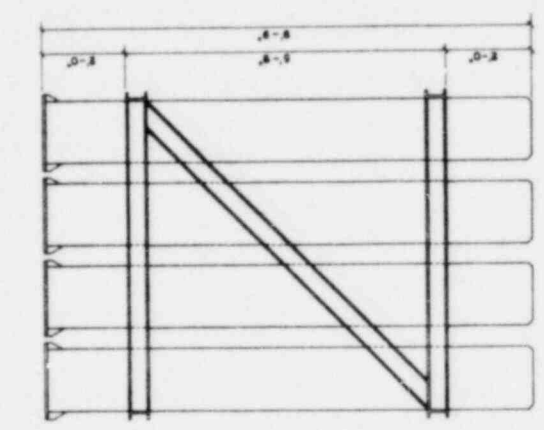
CANISTER PLACEMENT ASSEMBLY TOP VIEW



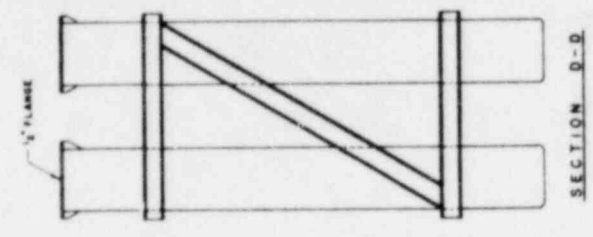
SECTION A-A



SECTION B-B



SECTION C-C

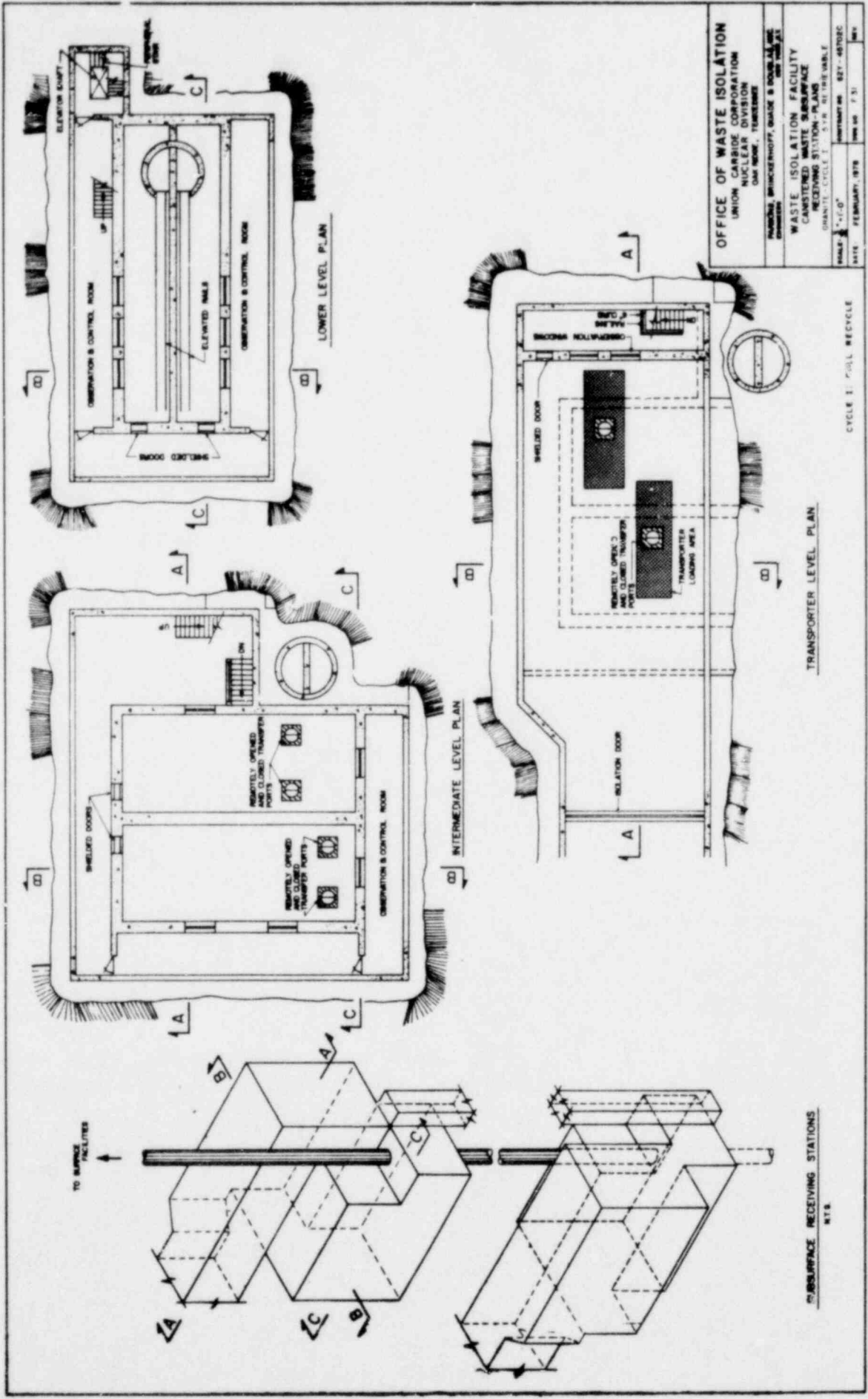


SECTION D-D

NOTE:
CANISTERS ARE FULL RETRIEVABLE WASTE PLACEMENT ONLY
(INITIAL 5 YR PERIOD)

OFFICE OF WASTE ISOLATION UNION CARBIDE CORPORATION NUCLEAR DIVISION OXFORD, TENNESSEE	
HARRISON, BRUCKNERHOFF, QUALIS & DOUGLAS, INC. DESIGNER	
WASTE ISOLATION FACILITY STORAGE CASING ASSEMBLIES GRANITE-CYCLE 1 - 1/2 YR RETRIEVABLE	
SCALE: 3/4" = 1'-0"	DATE: FEBRUARY, 1978
PROJECT: 85T-80702C	REV: 001 001 7/84

CYCLE 1 FULL RECYCLE



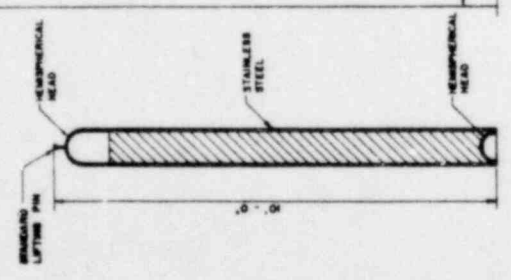
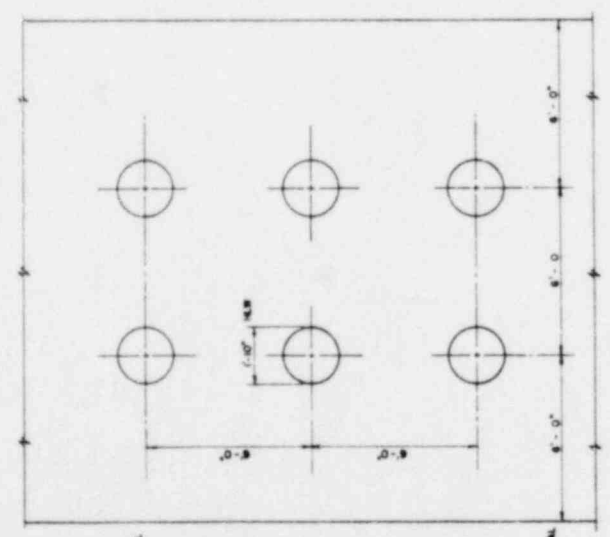
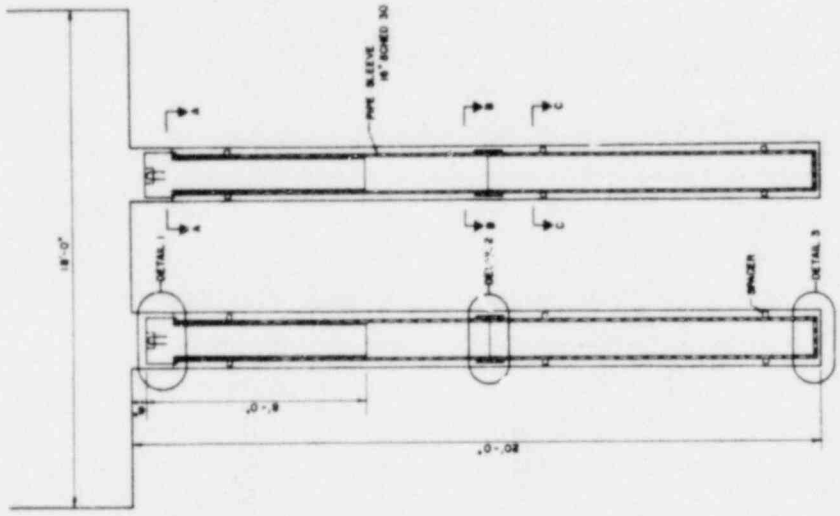
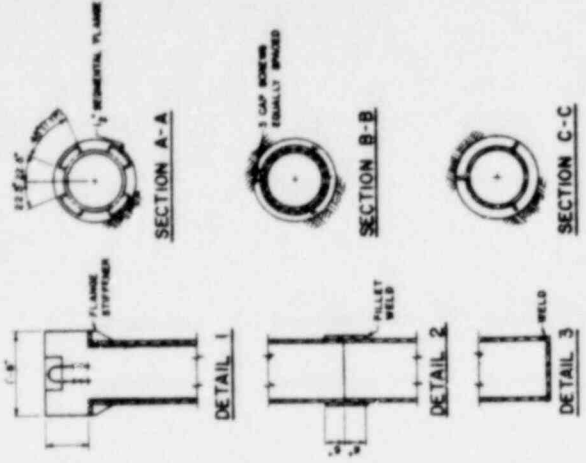
OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 ONE BOWLING GREEN
 PITTSBURGH, PENNSYLVANIA 15201

WASTE ISOLATION FACILITY
 CONTAINING WASTE SURFACE
 RECEIVING STATION - PLANS
 GRANITE - CYCLE 1 - 5-19 BY THE TABLE

DRAWING NO. 827-48702C
 DATE: FEBRUARY, 1978
 SHEET NO. 1 OF 3

CYCLE 1 - FULL RECYCLE

TO SURFACE RECEIVING STATIONS
N.T.S.



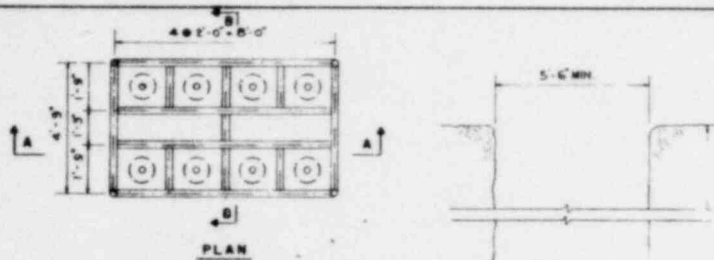
CANISTER PLACEMENT ELEVATION

CANISTER PLACEMENT PLAN

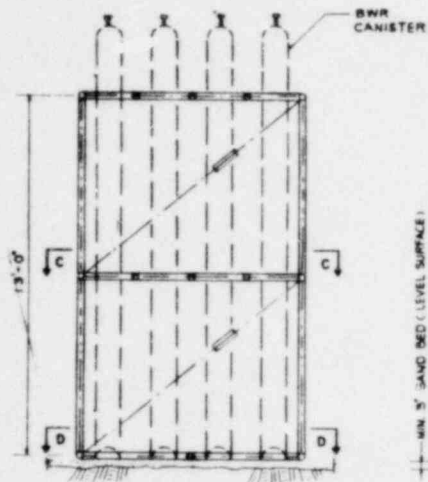
CANISTER DETAIL

OFFICE OF WASTE ISOLATION	
UNION CARBIDE CORPORATION	
NUCLEAR DIVISION	
DAY WALKER, TENNESSEE	
PARSONS BRINCKERHOFF, GRADE 8 DONALDSON, INC.	
MEMPHIS, TENNESSEE	
WASTE ISOLATION FACILITY	
CANISTERED WASTE STORAGE	
GRANITE - CYCLE 3 - 51X RETRIEVABLE	
SCALE: NOT TO SCALE	PROJECT NO. 857-40202C
DATE: FEBRUARY, 1978	ISSUE NO. 734
	DATE

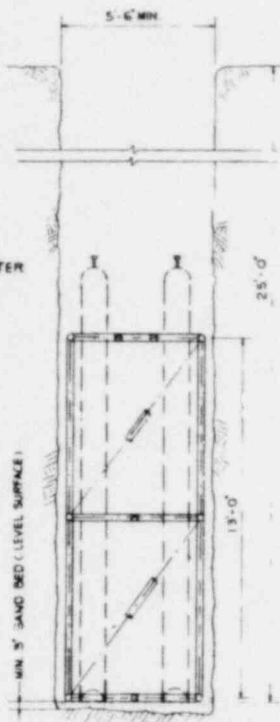
CYCLE 1 - FULL RECYCLE



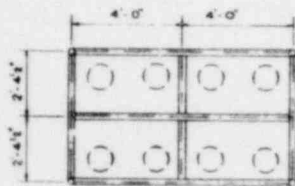
PLAN



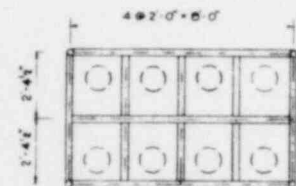
ELEVATION A-A



ELEVATION B-B

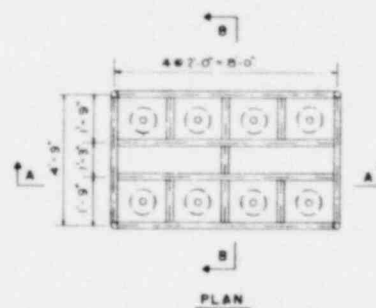


SECTION D-D

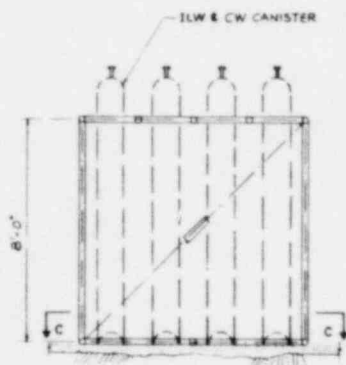


SECTION C-C

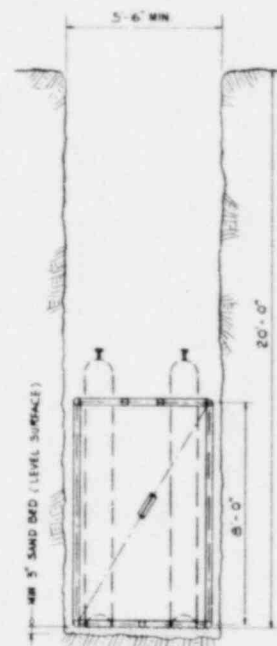
STORAGE FRAME - BWR
CYCLE II



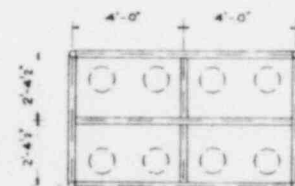
PLAN



ELEVATION A-A



ELEVATION B-B



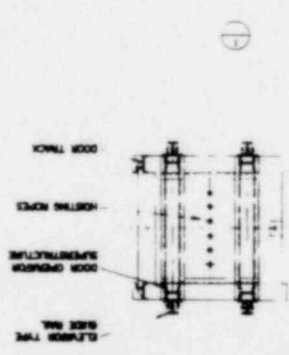
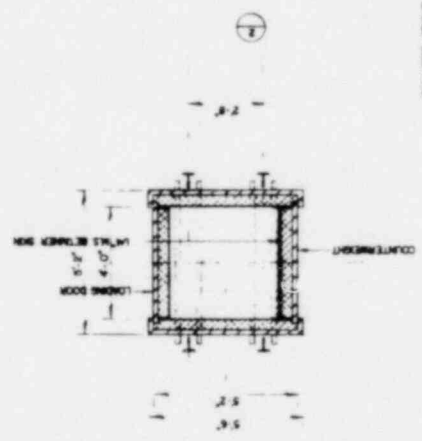
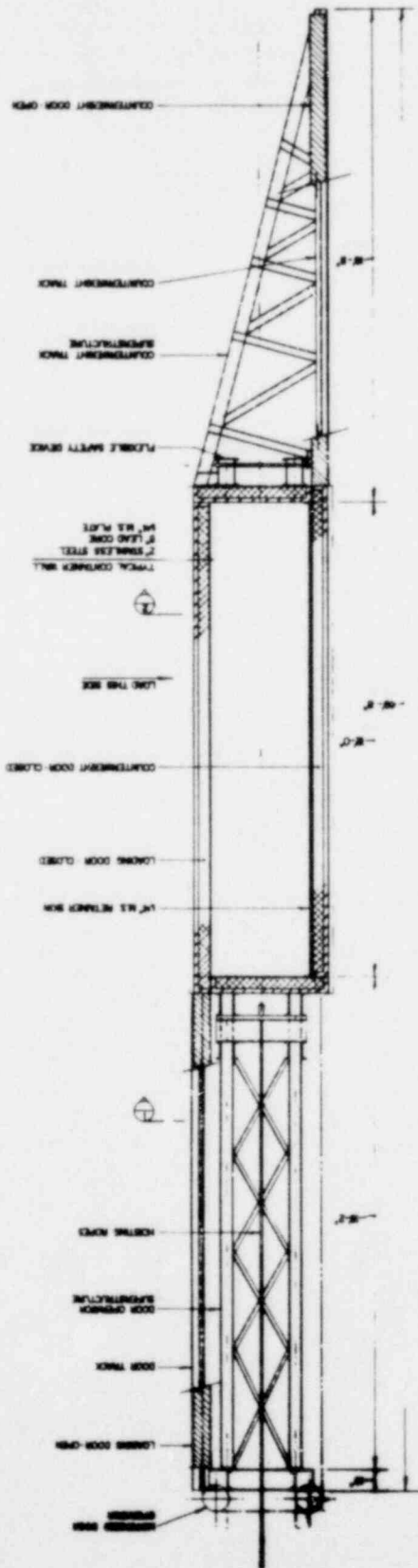
SECTION C-C

STORAGE FRAME - ILW & CW
CYCLE I OR II

NOTES:

1. ALL MEMBERS ARE 8" DIAMETER STANDARD STEEL PIPE (A36 CARBON STEEL)
2. ALL CONNECTIONS ARE TO BE WELDED.
3. STORAGE FRAMES ARE FOR NON-RETRIEVABLE WASTE PLACEMENT (AFTER SWR FINISH)

OFFICE OF WASTE ISOLATION	
UNION CARBIDE CORPORATION	
NUCLEAR DIVISION	
OAK RIDGE, TN, WISSEEE	
PARSONS BRINCKERHOFF, QUADE & DOUGLAS, INC.	
ENGINEERS	
WASTE ISOLATION FACILITY	
STORAGE FRAMES	
GRANITE-CYCLE I, II, III - 8 YR. RETRIEVABLE	
SCALE: 1/2" = 1'-0"	CONTRACT NO. 82Y-48702C
DATE: FEBRUARY, 1978	DWG. NO. 735 REV.

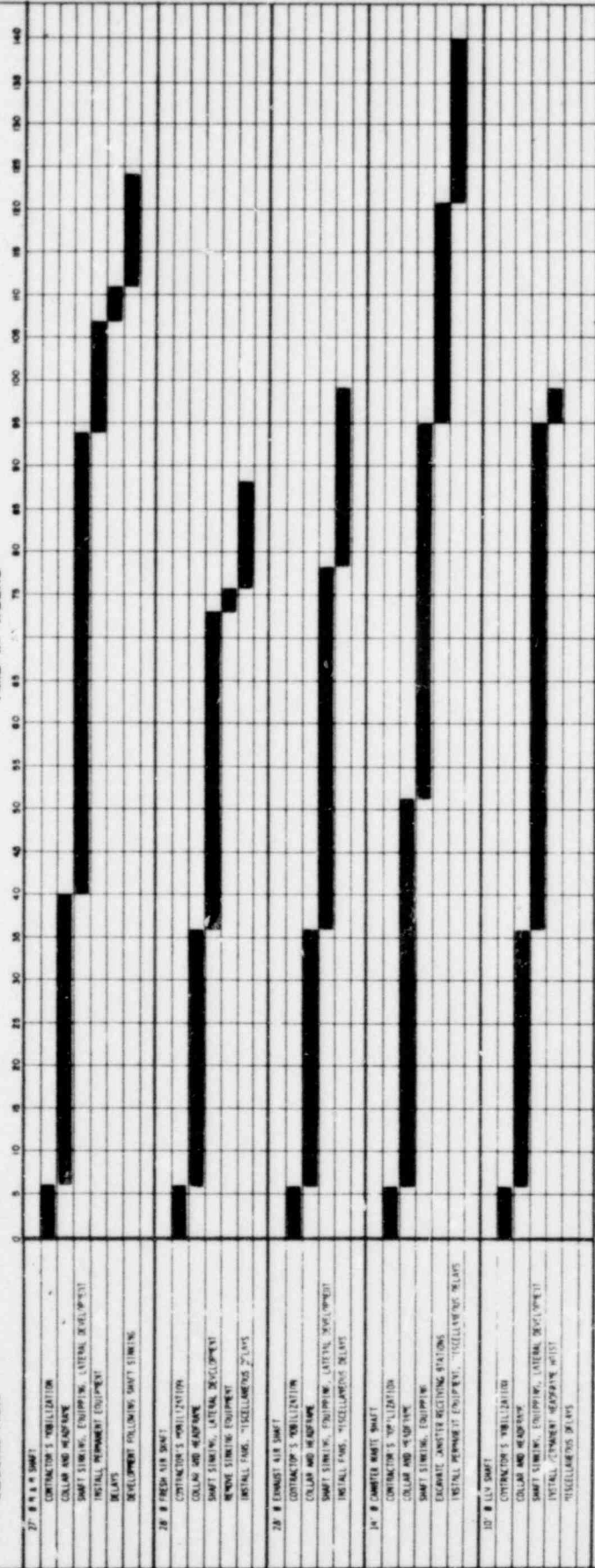


OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 OAK RIDGE, TENNESSEE
 PROJECT: BRIDGEPORT, GRADE 8 BUILDING, INC.
 WASTE ISOLATION FACILITY
 CANISTERED WASTE CAVE
 GRANITE-CYCLE 1 - 3 TR. IN TIME WALK
 DRAWING NO. 857-45702C
 DATE: FEBRUARY, 1978
 SHEET NO. P-43

CYCLE 1: FULL RECYCLE
 ESTIMATED WEIGHT: 1807

TIME IN WEEKS

DESCRIPTION



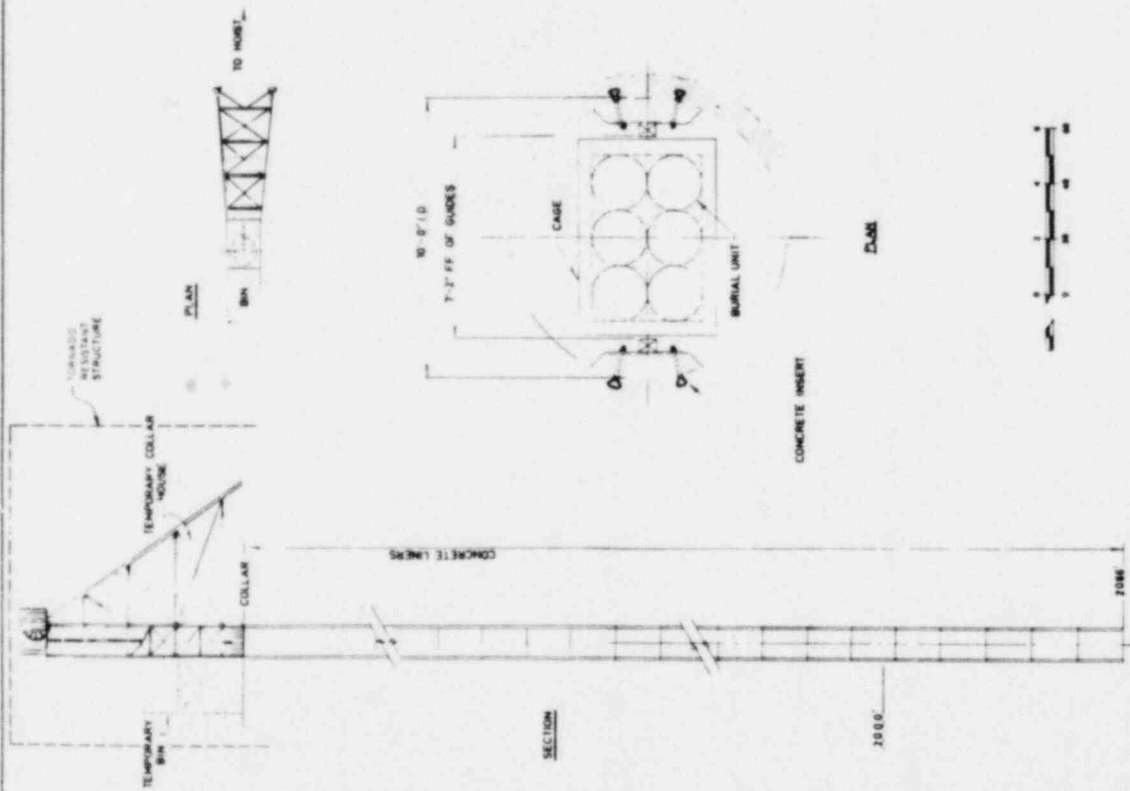
OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 600 ROOM, TENNESSEE
 KNOXVILLE, TENNESSEE

WASTE ISOLATION FACILITY
 SHAFT CONSTRUCTION SCHEDULE

SHARITE - CYCLE 1 - 8' X 8' RETRIEVABLE

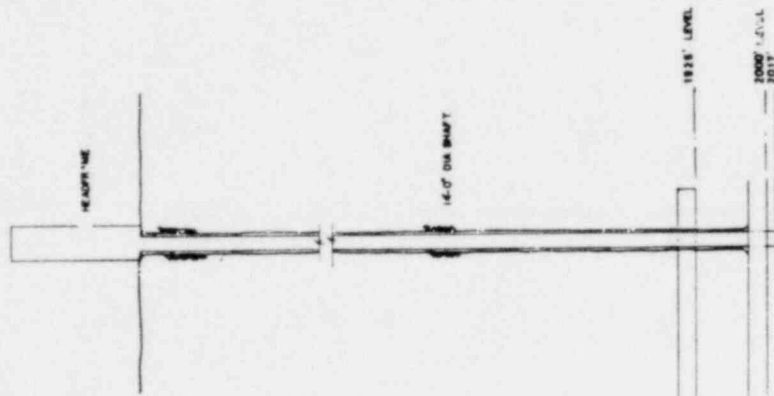
SCALE: CONTRACT NO. 827-45702C
 DATE: FEBRUARY, 1978
 DRAWING NO. 837

CYCLE 1 - FULL RECYCLE

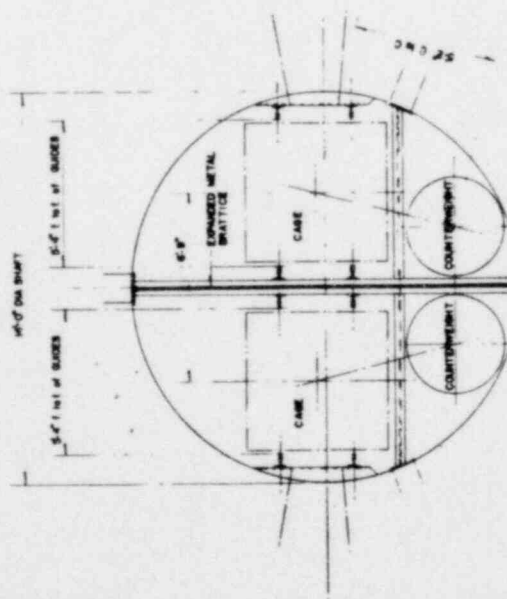


OFFICE OF WASTE ISOLATION	
UNION CARBIDE CORPORATION	
NUCLEAR DIVISION	
DAY NOME, TENNESSEE	
ENGINEER	
PARSONS BRINCKERHOFF, GADE & DONALDSON INC.	
MEMPHIS, TENNESSEE	
WASTE ISOLATION FACILITY	
LOW LEVEL WASTE SHAFT	
GRANITE CYCLE I, SIB, RETRIEVABLE	
SCALE NONE	CONTRACT NO. 871-80702C
DATE FEBRUARY, 1978	ISSUED BY 7-43
	REV.

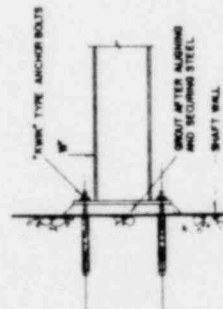
CYCLE I, FULL RECYCLE



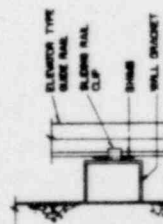
SHAFT SECTION



PLAN OF SHAFT



**TYR. UNION TO WALL
CONNECT'N**

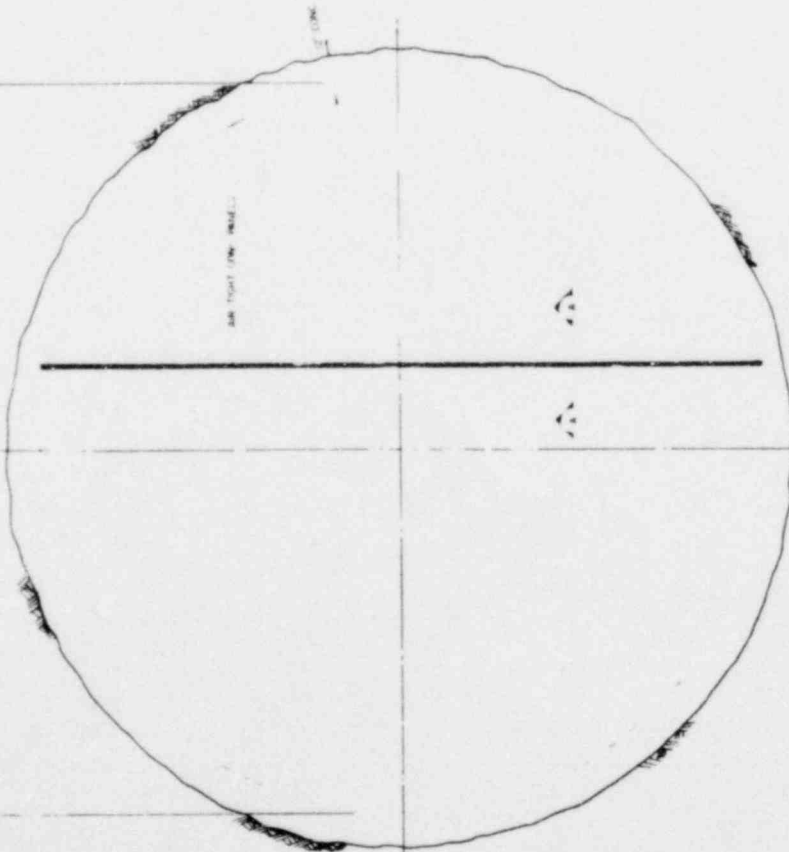


TYR. GUIDE RAIL CONNECT'N

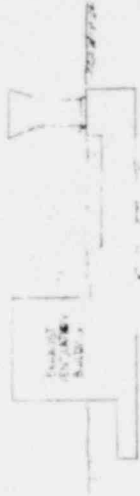
OFFICE OF WASTE ISOLATION	
UNION CARBIDE CORPORATION	
NUCLEAR DIVISION	
ONE MOORE, TENNESSEE	
PUNNING, BRINCKERHOFF, QUAD & DONALDSON, INC.	
DESIGN NO. 10007	
WASTE ISOLATION FACILITY	
CANISTERED WASTE SHAFT	
GRABITE-CYCLE 1 - 3 1/2 IN. RETRIEVABLE	
SCALE:	CONTRACT NO. 427-48705C
DATE: FEBRUARY, 1978	APP. NO. P. 19
	REV.

CYCLE 1 - FULL RECYCLE

28'-0" DIA. (EXT. SHAFT)



PLAN OF SHAFT



SECTION 'A-A'

SHAFT 28'-0" DIA.

100' LEVEL

2000 LEVEL

2070 LEVEL

SHAFT SECTION

CYCLE 1. FULL RECYCLE

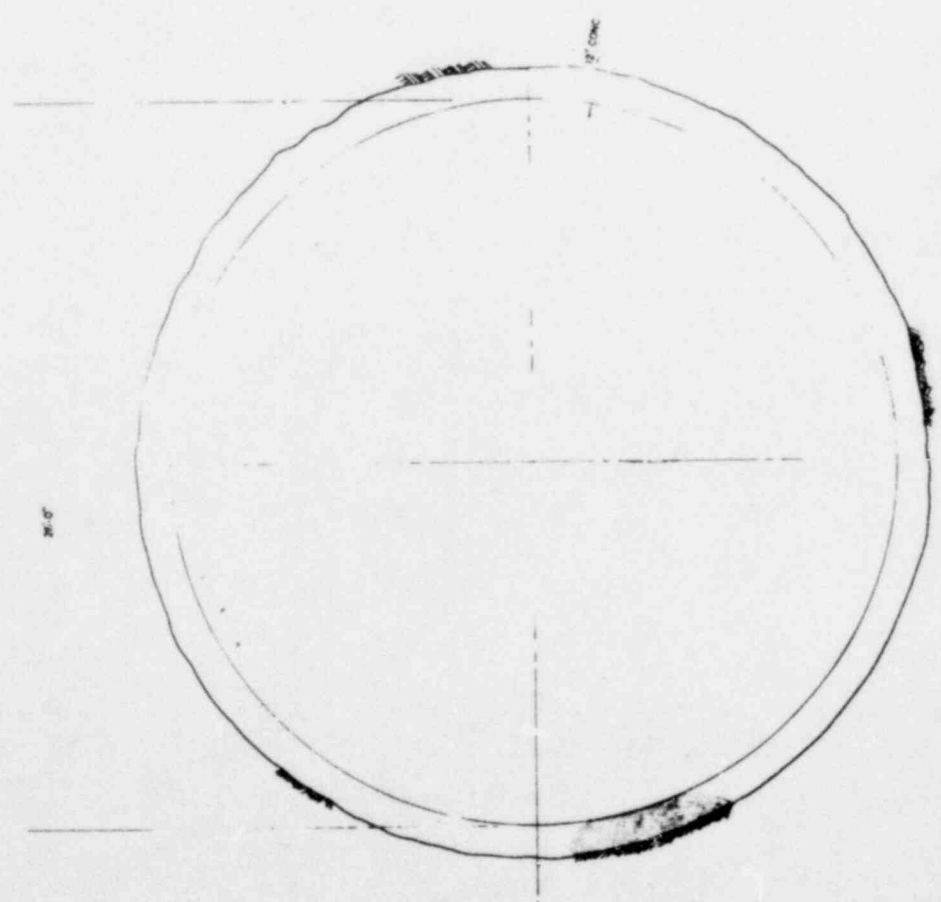
OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 OAK RIDGE, TENNESSEE

PARSONS BRINCKERHOFF, QUAD 9 SQUARES, INC.
 ENGINEERS

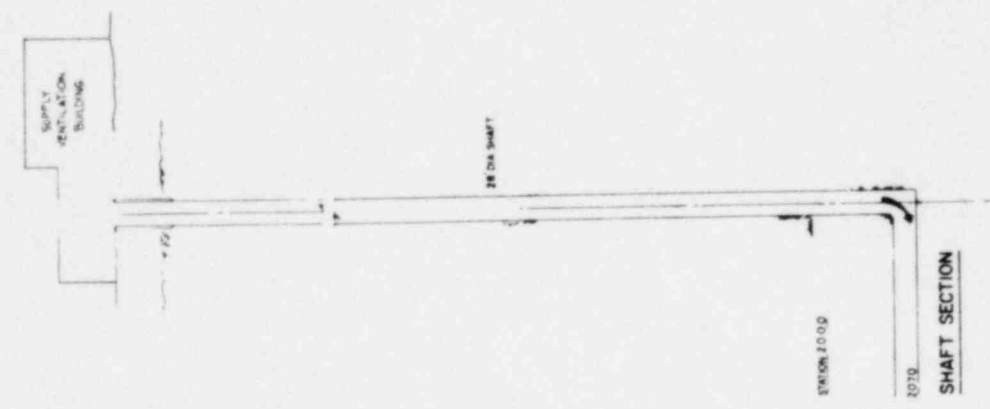
WASTE ISOLATION FACILITY
 VENTILATION EXHAUST SHAFT

GRANTE - CYCLE 1 - 3.1% RETRIEVABLE
 CONTRACT NO. 837 - 45705C

DATE FEBRUARY, 1978 JOB NO. P-44



PLAN OF SHAFT



SHAFT SECTION

OFFICE OF WASTE ISOLATION	
UNION CARBIDE CORPORATION	
NUCLEAR DIVISION	
OAK RIDGE, TENNESSEE	
HARRISON BRINCKERHOFF, CHASE & SOLARAS, INC.	
DESIGNERS	
WASTE ISOLATION FACILITY	
VENTILATION SUPPLY SHAFT	
DRAWING NO. 827-87020C	
SCALE	DATE
1" = 8'-0"	FEBRUARY, 1978
BY	CHK'D
WV	F 43

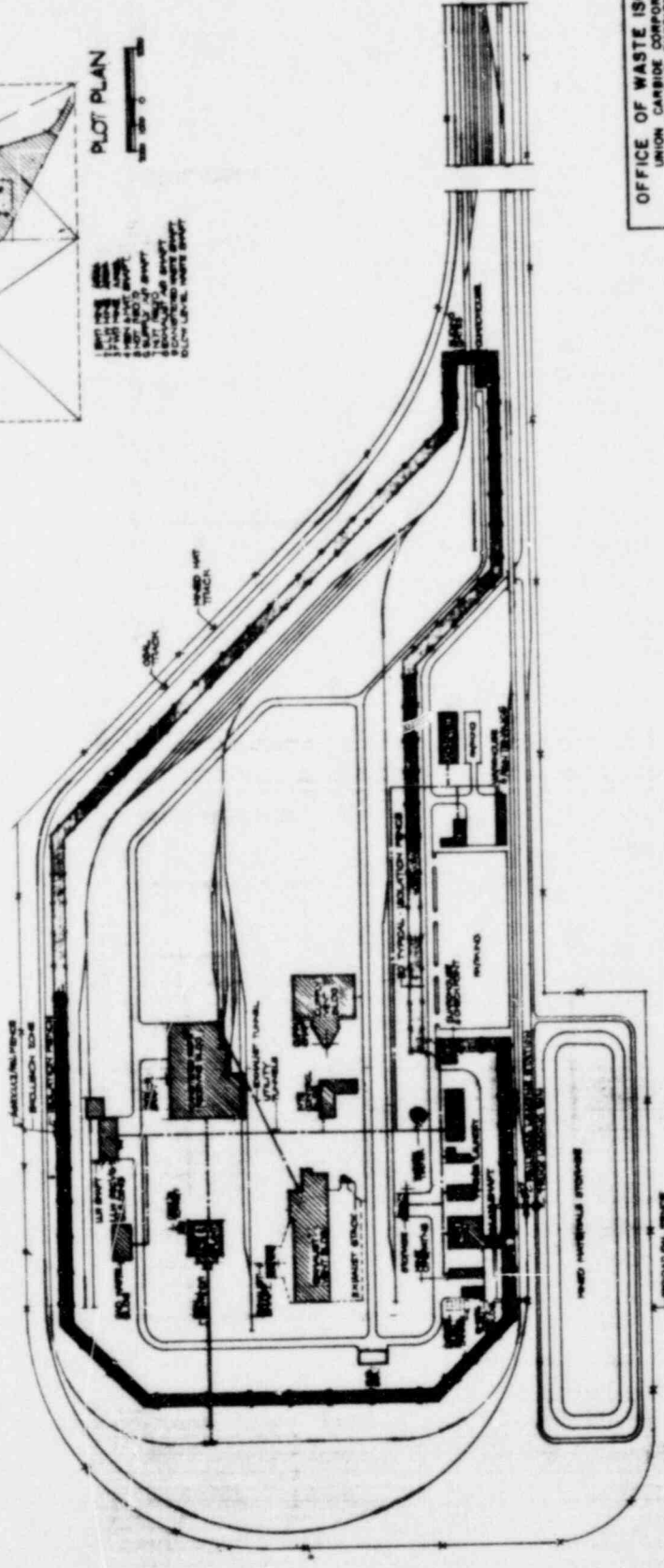
CYCLE I - FULL RECYCLE



PLOT PLAN



- 1. 1/2" = 100'
- 2. 1/4" = 50'
- 3. 1/8" = 25'
- 4. 1/16" = 12.5'
- 5. 1/32" = 6.25'
- 6. 1/64" = 3.125'
- 7. 1/128" = 1.5625'
- 8. 1/256" = 0.78125'
- 9. 1/512" = 0.390625'
- 10. 1/1024" = 0.1953125'
- 11. 1/2048" = 0.09765625'
- 12. 1/4096" = 0.048828125'
- 13. 1/8192" = 0.0244140625'
- 14. 1/16384" = 0.01220703125'
- 15. 1/32768" = 0.006103515625'
- 16. 1/65536" = 0.0030517578125'
- 17. 1/131072" = 0.00152587890625'
- 18. 1/262144" = 0.000762939453125'
- 19. 1/524288" = 0.0003814697265625'
- 20. 1/1048576" = 0.00019073486328125'

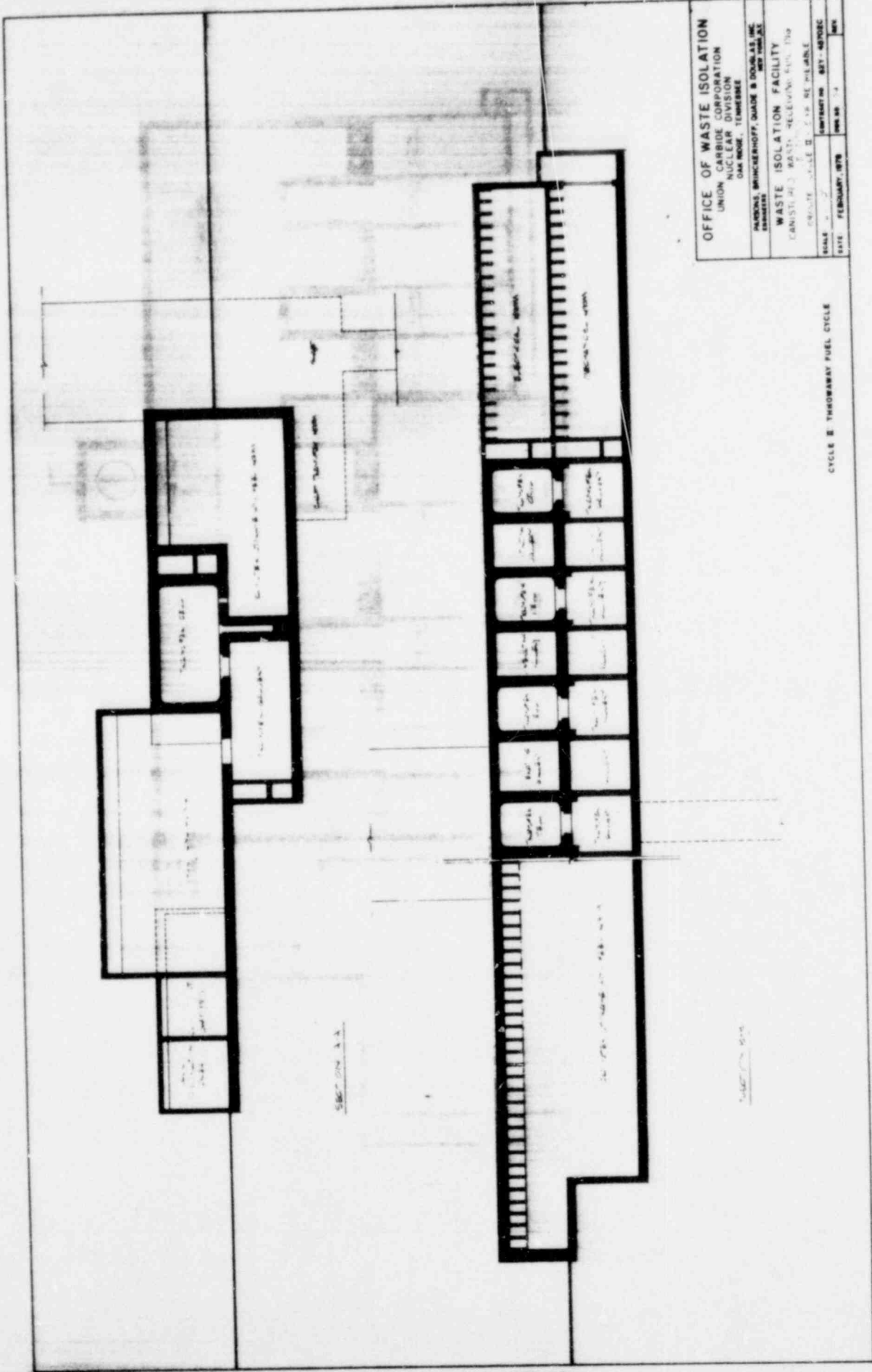


Site Plan



OFFICE OF WASTE ISOLATION	
UNION CARBIDE CORPORATION	
NUCLEAR DIVISION	
DUNELAND, BRIDGEPLANT, SHARPE & BOURGASS, INC.	
DUNELAND, BRIDGEPLANT, SHARPE & BOURGASS, INC.	
DUNELAND, BRIDGEPLANT, SHARPE & BOURGASS, INC.	
WASTE ISOLATION FACILITY	
REPOSITORY-SITE AND PLOT PLAN	
DRAWING-CYCLE 2 - 3 IN RETRIEVABLE	
SCALE: AS NOTED	INSTRUMENT NO. 827-48703C
DATE: FEBRUARY, 1978	REV. NO. 01

CYCLE 2 THROUGHWAY FUEL CYCLE



OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 OAK RIDGE, TENNESSEE

HARDONS, BRUNCKENHOFF, QUAIN & DOUGLAS, INC.
 ENGINEERS

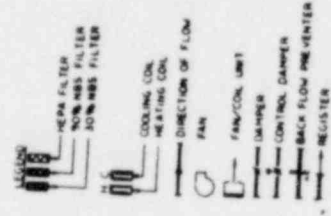
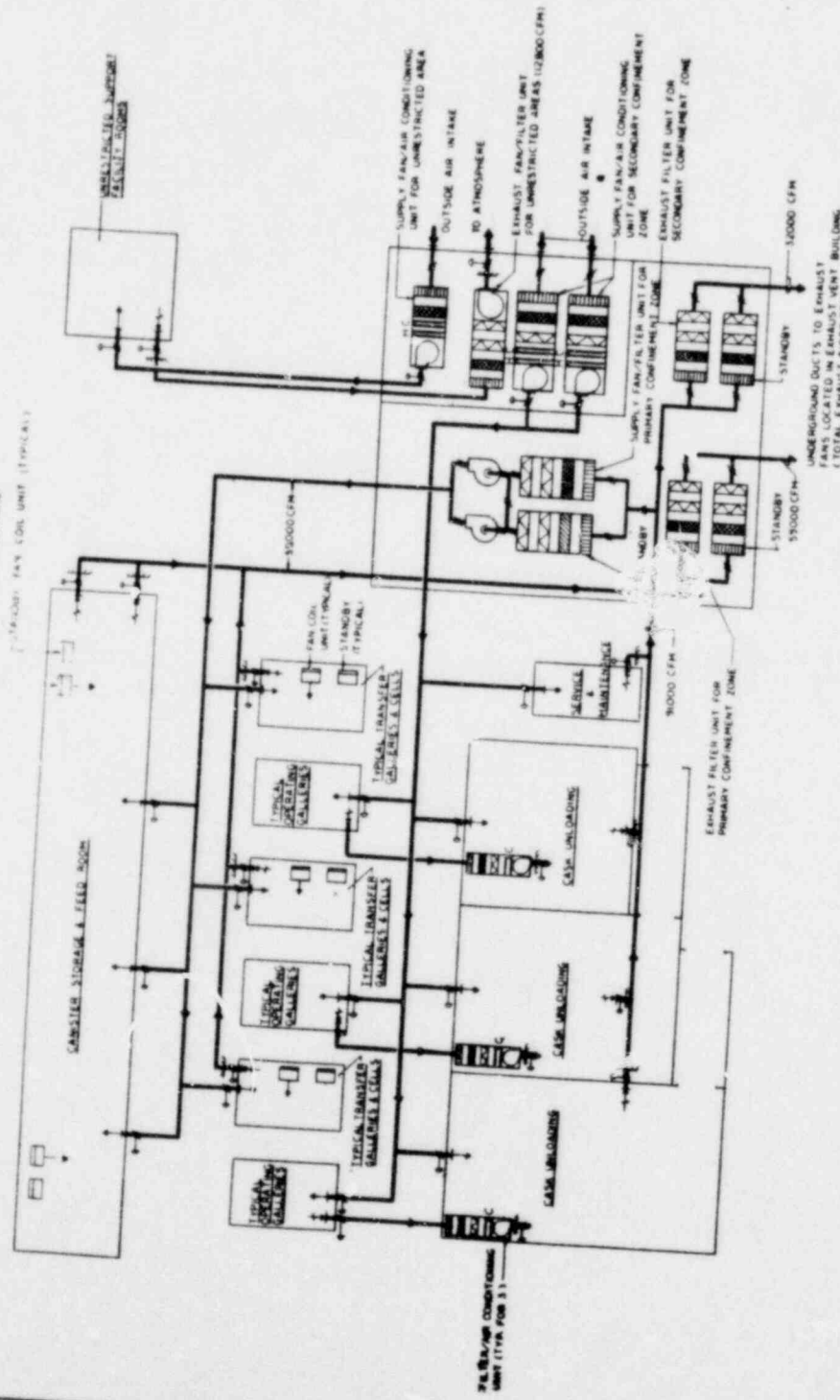
WASTE ISOLATION FACILITY
 WASTELAND WASTE RECEIVING AREA

PROJECT NO. 44-100-100-100-100-100
 SCALE 1/4" = 1'-0"
 DATE FEBRUARY, 1978

CYCLE II THROUGHWAY FUEL CYCLE

DATE FEBRUARY, 1978
 SHEET NO. 1
 OF 1

FAN COOL UNIT (TYPICAL)
 FAN COOL UNIT (TYPICAL)



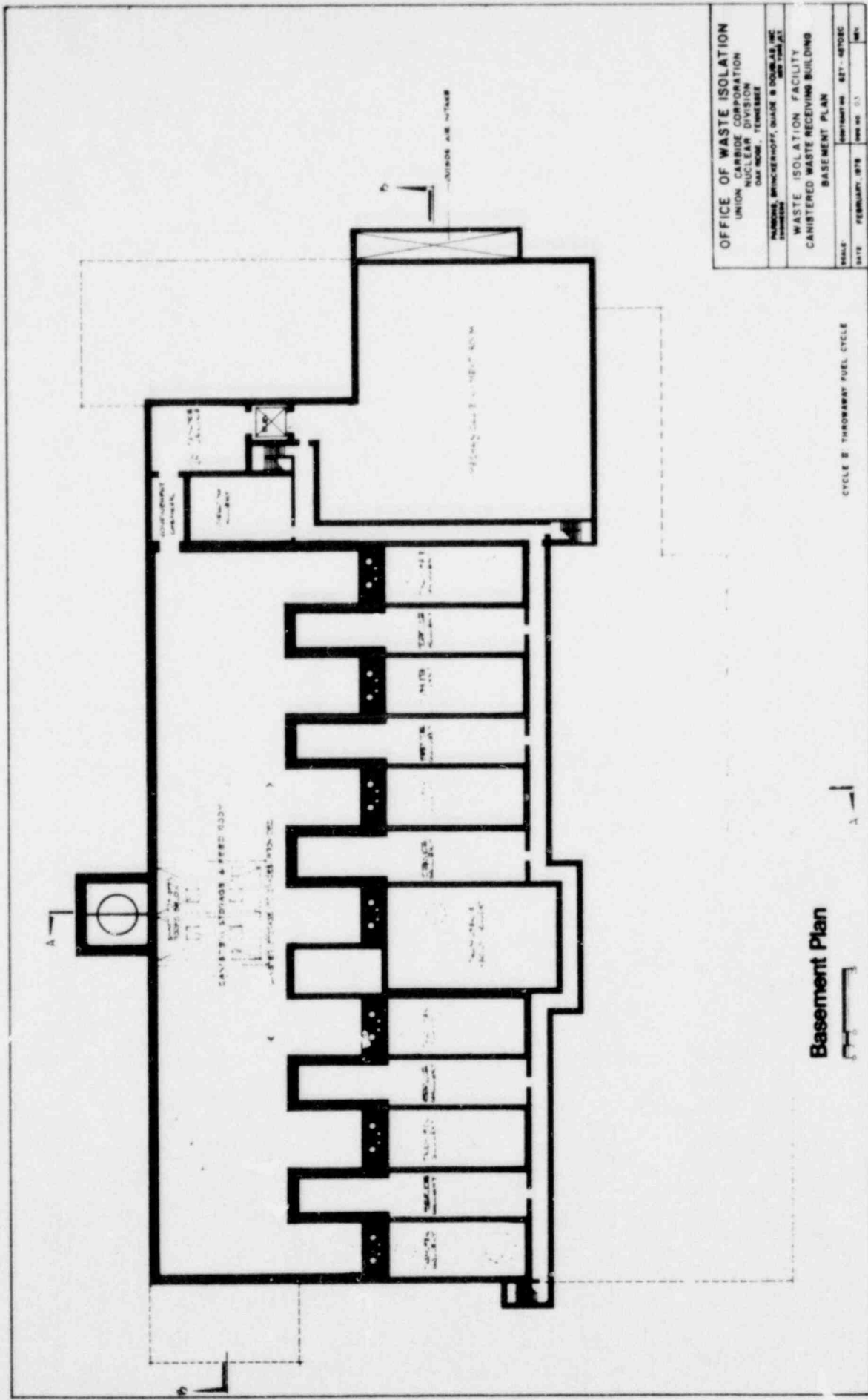
OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 DAYTON, OHIO, TENNESSEE

PAULINE WICKERHOFF, WARE & DOUGLAS INC
 1000 W. 10TH ST.
 WASHINGTON, D.C. 20004

WASTE ISOLATION FACILITY
 AIR FLOW PLAN
 WASTE ISOLATION FACILITY
 WASTE ISOLATION FACILITY

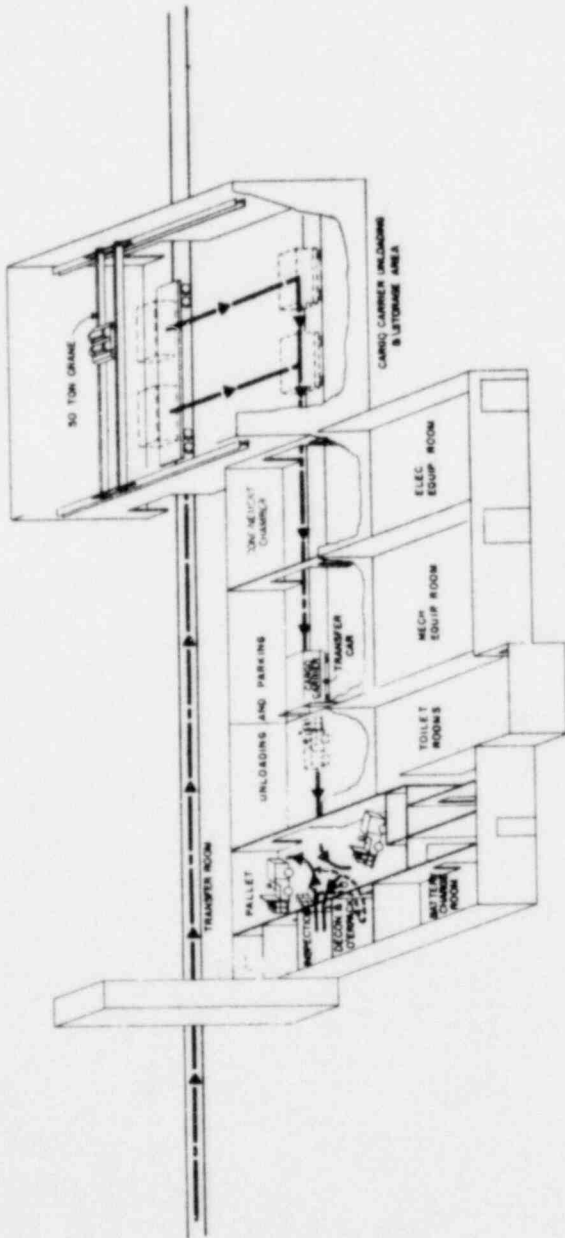
SCALE NO. CAL
 DATE: FEBRUARY, 1978

CYCLE 2 THROUGHWAY FUEL CYCLE



OFFICE OF WASTE ISOLATION	
UNION CARBIDE CORPORATION	
NUCLEAR DIVISION	
DAY WALK, TENNESSEE	
NATIONS, BRUNGERHOFF, GILADE & DOUGLAS, INC.	
ENGINEERS	
WASTE ISOLATION FACILITY	
CONTAINERED WASTE RECEIVING BUILDING	
BASEMENT PLAN	
SCALE	AS SHOWN
DATE	FEBRUARY, 1978
PROJECT NO.	827-N702C
REV.	NOV 80, 81

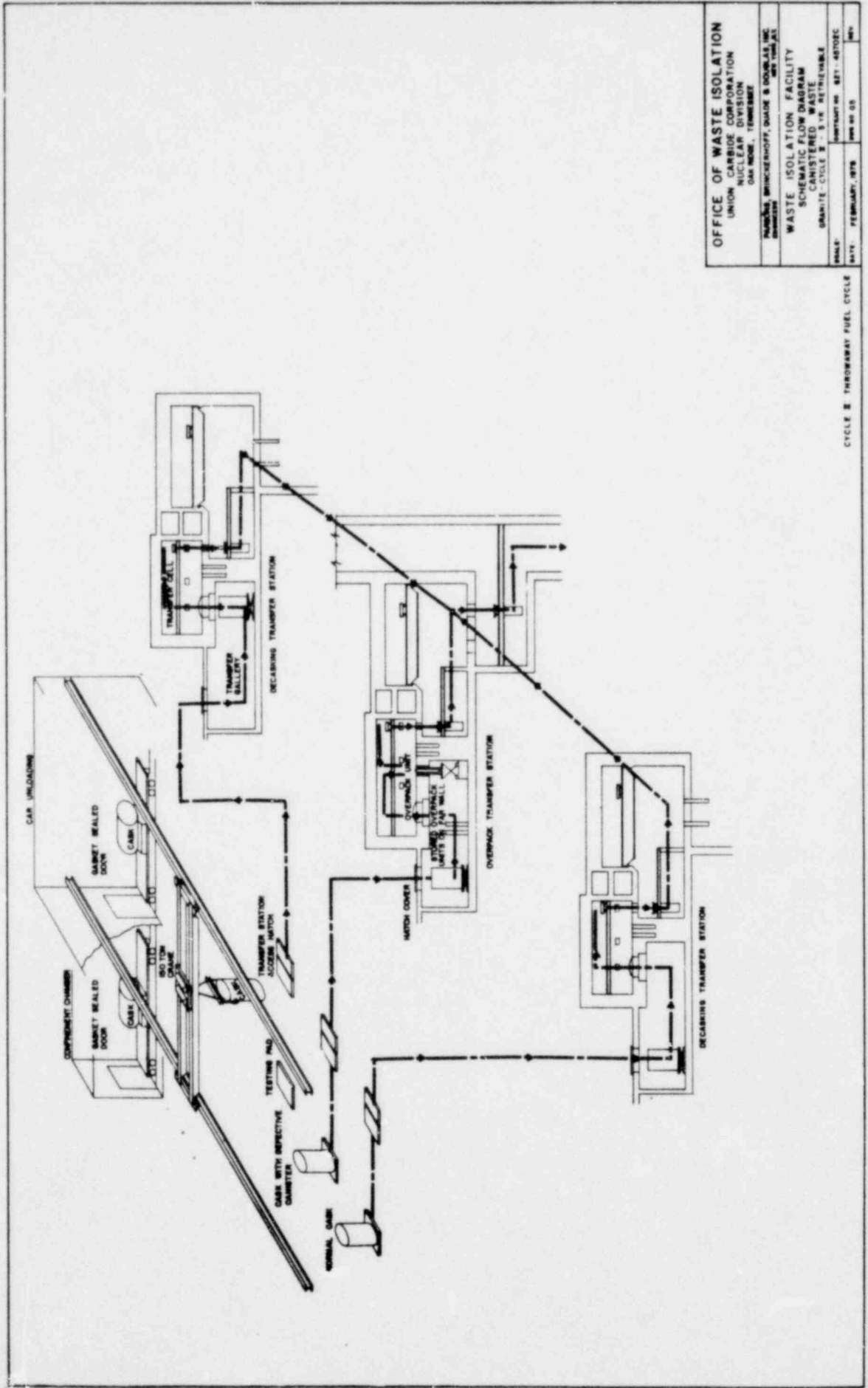
Basement Plan



OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 DAYTON, OHIO

PROJECT: WASTE ISOLATION FACILITY
 DRAWING: CYCLE E - THROUGHWAY FUEL CYCLE
 DATE: FEBRUARY, 1975

CYCLE E - THROUGHWAY FUEL CYCLE

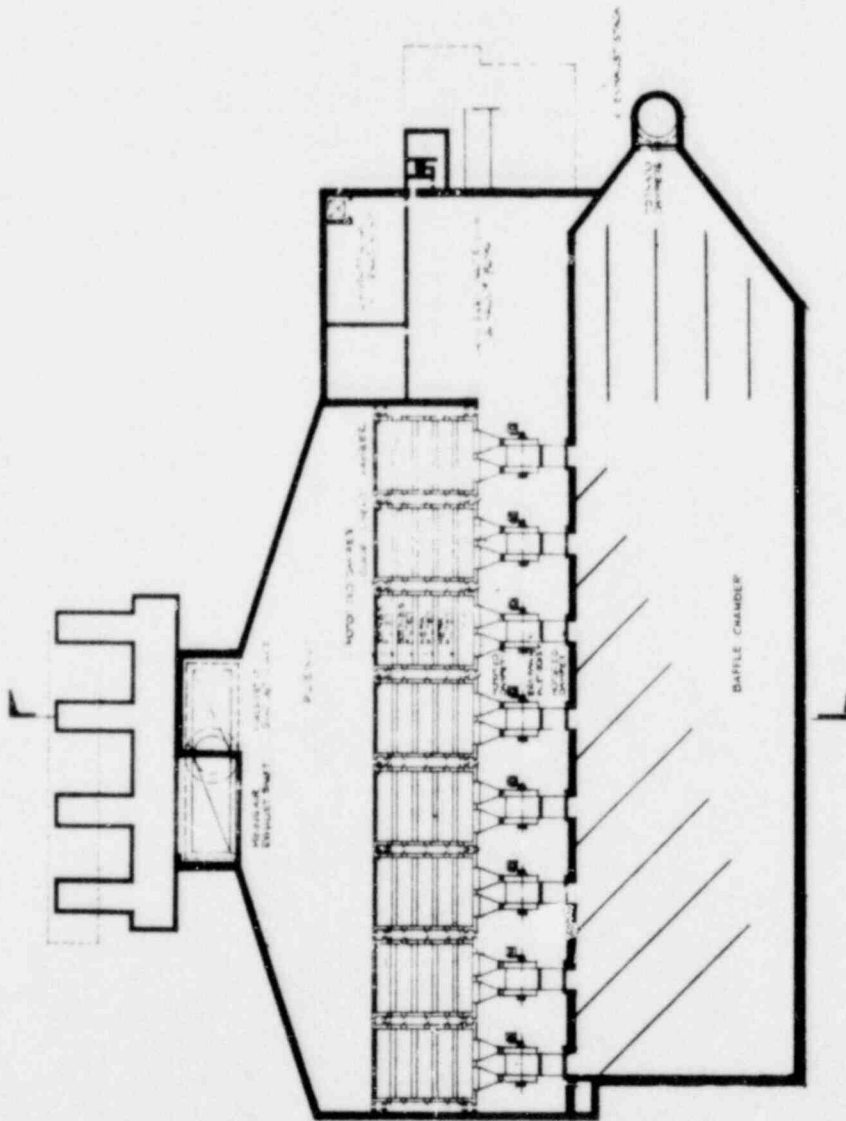


OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 OAK RIDGE, TENNESSEE

WASTE ISOLATION FACILITY
 SCHEMATIC FLOW DIAGRAM
 CONSISTENT WITH THE
 GRANITE CYCLE 1, 1-12, RETRIEVABLE

DATE: FEBRUARY, 1978
 DRAWING NO: SET - 40702C
 SHEET NO: 03

CYCLE 1 THROUGHWAY FUEL CYCLE



Basement Plan



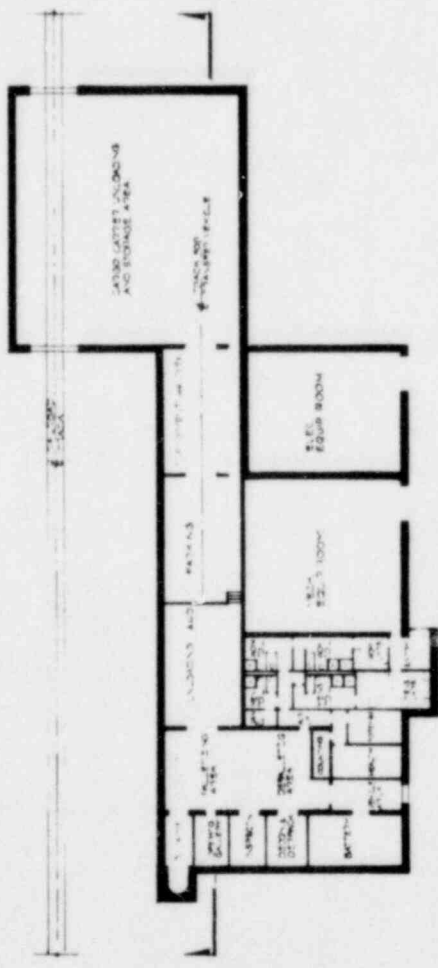
CYCLE 2 THROUWAY FUEL CYCLE

OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 DAYTON, TENNESSEE

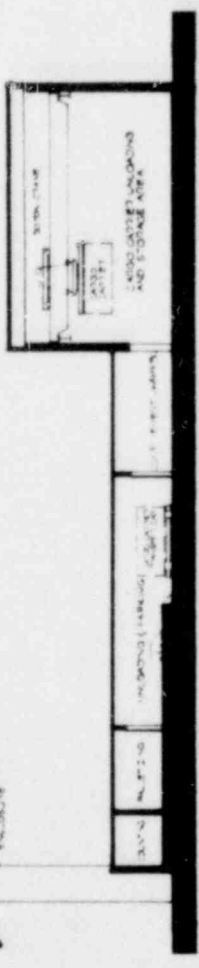
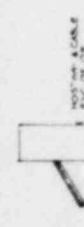
HEWLETT, BRUNNENBERG, QUINN & BOULES, INC.
 ENGINEERS

WASTE ISOLATION FACILITY
EXHAUST VENT BUILDING
 25,000 S.F. PLAN

SCALE: AS SHOWN
 DATE: FEBRUARY, 1978
 SHEET NO. 510

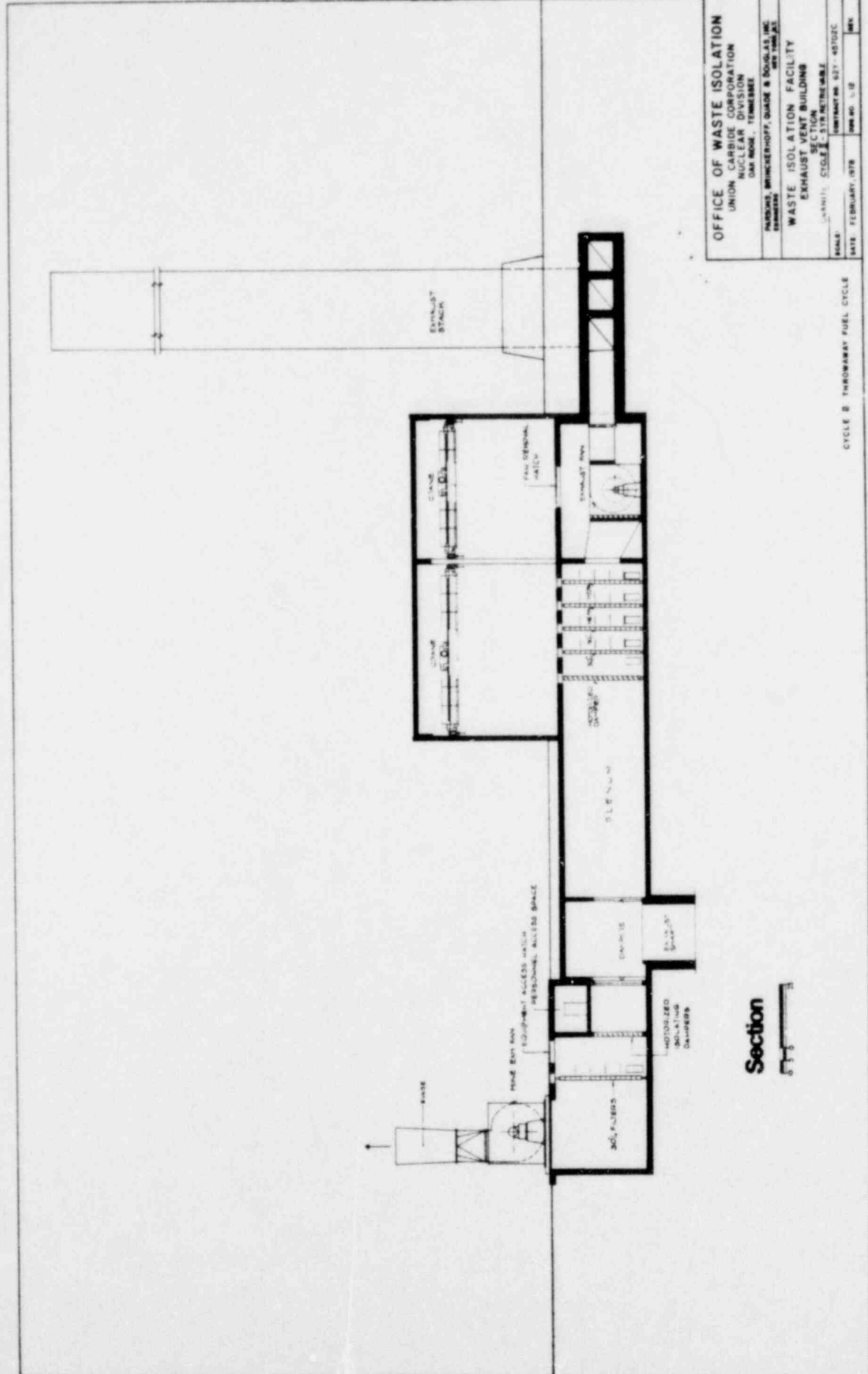


Ground Floor Plan



Section

OFFICE OF WASTE ISOLATION	
UNION CARBIDE CORPORATION NUCLEAR DIVISION DAYTON, OHIO 45424	
PREPARED BY: HARRIS, BRINCKERHOFF, GUDE & DOUGLAS, INC. 1000 WEST LANSING ANN ARBOR, MI 48106	
PROJECT: WASTE ISOLATION FACILITY LOW LEVEL WASTE RECEIVING BUILDING GROUND FLOOR PLAN AND SECTION	
SCALE: AS SHOWN	DATE: FEBRUARY 1978
PROJECT NO.: 621-40102C	DESIGN NO.: 7
CYCLE B THROUGHWAY FUEL CYCLE	

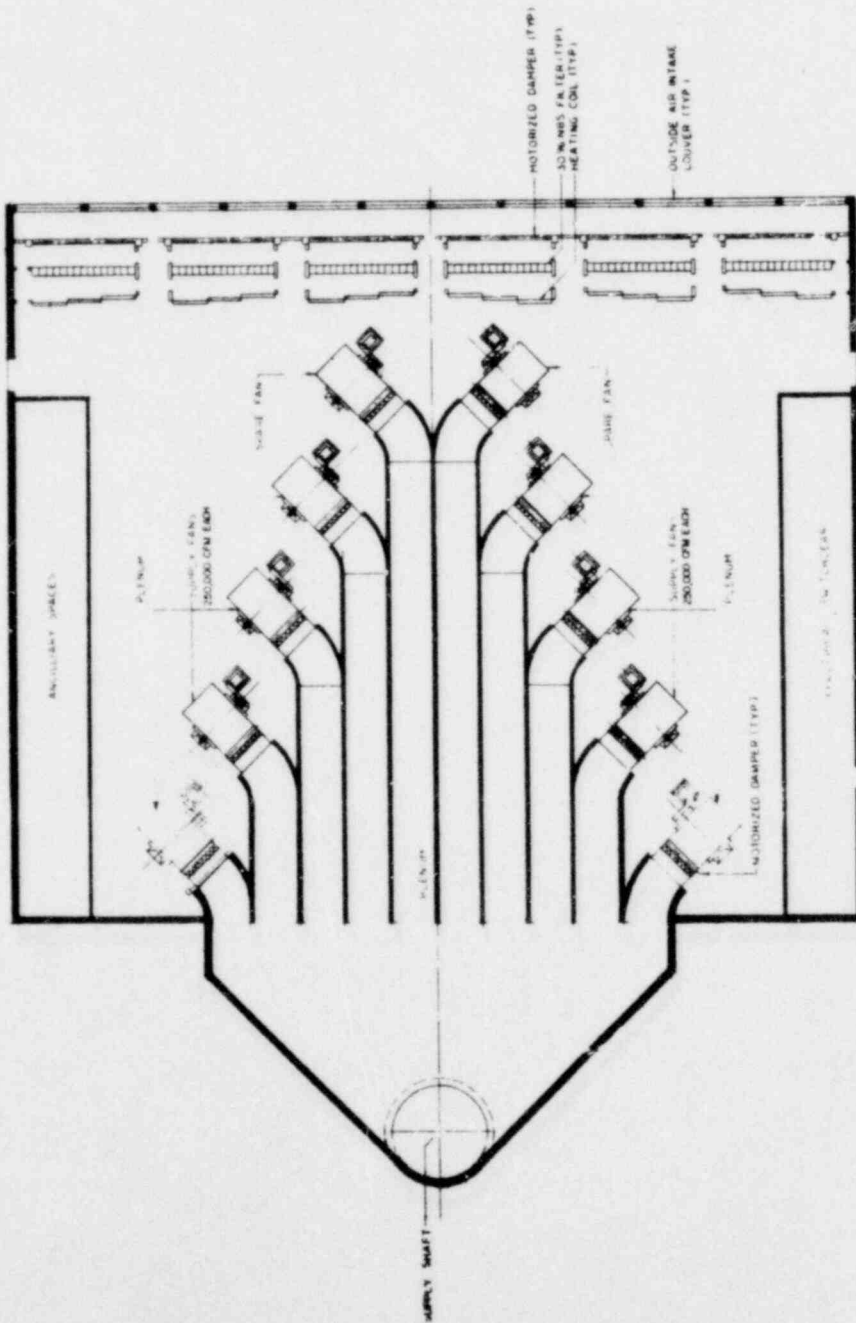


OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 DAY MODE, TOMBSETT
 PROJECT: BRINCKERHOFF, QUAD 8 DOUGLAS, MC
 10000000
WASTE ISOLATION FACILITY
EXHAUST VENT BUILDING
 SECTION
 PLAN: CYCLE B - THROWAWAY
 SCALE: 1/8" = 1'-0"
 DATE: FEBRUARY, 1978
 DWG NO. 1-12
 1000

CYCLE B THROWAWAY FUEL CYCLE

Section





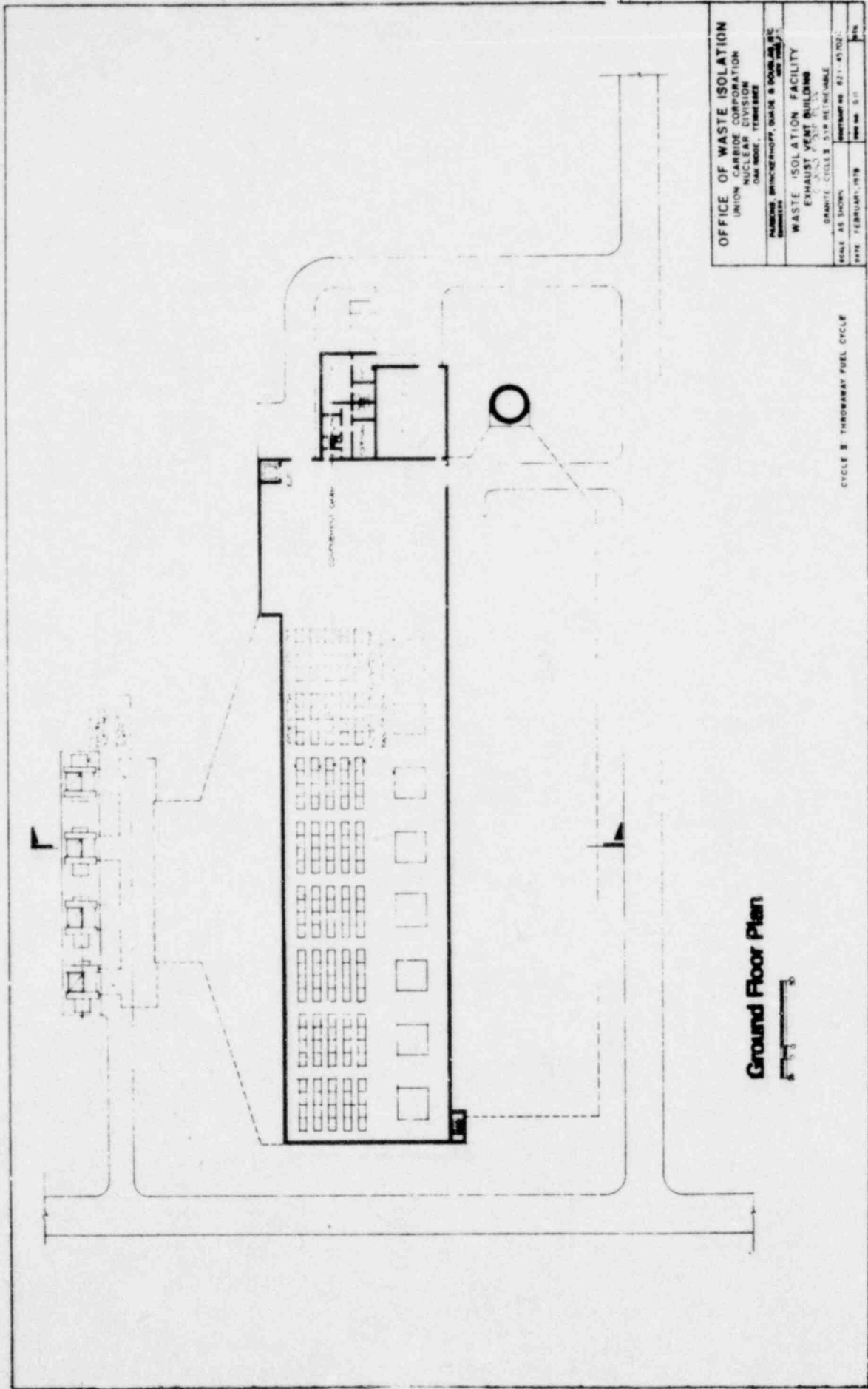
OFFICE OF WASTE RECLAMATION
 UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 WASHINGTON, D.C. 20460

WASTE ISOLATION BUILDING
 CYCLES II & III WASTE RECLAMATION

PROJECT: WASTE ISOLATION BUILDING
 DRAWING: WASTE ISOLATION BUILDING
 DATE: 11/19/77

CYCLE II THROAWAY FUEL CYCLE

FLOOR PLAN



Ground Floor Plan



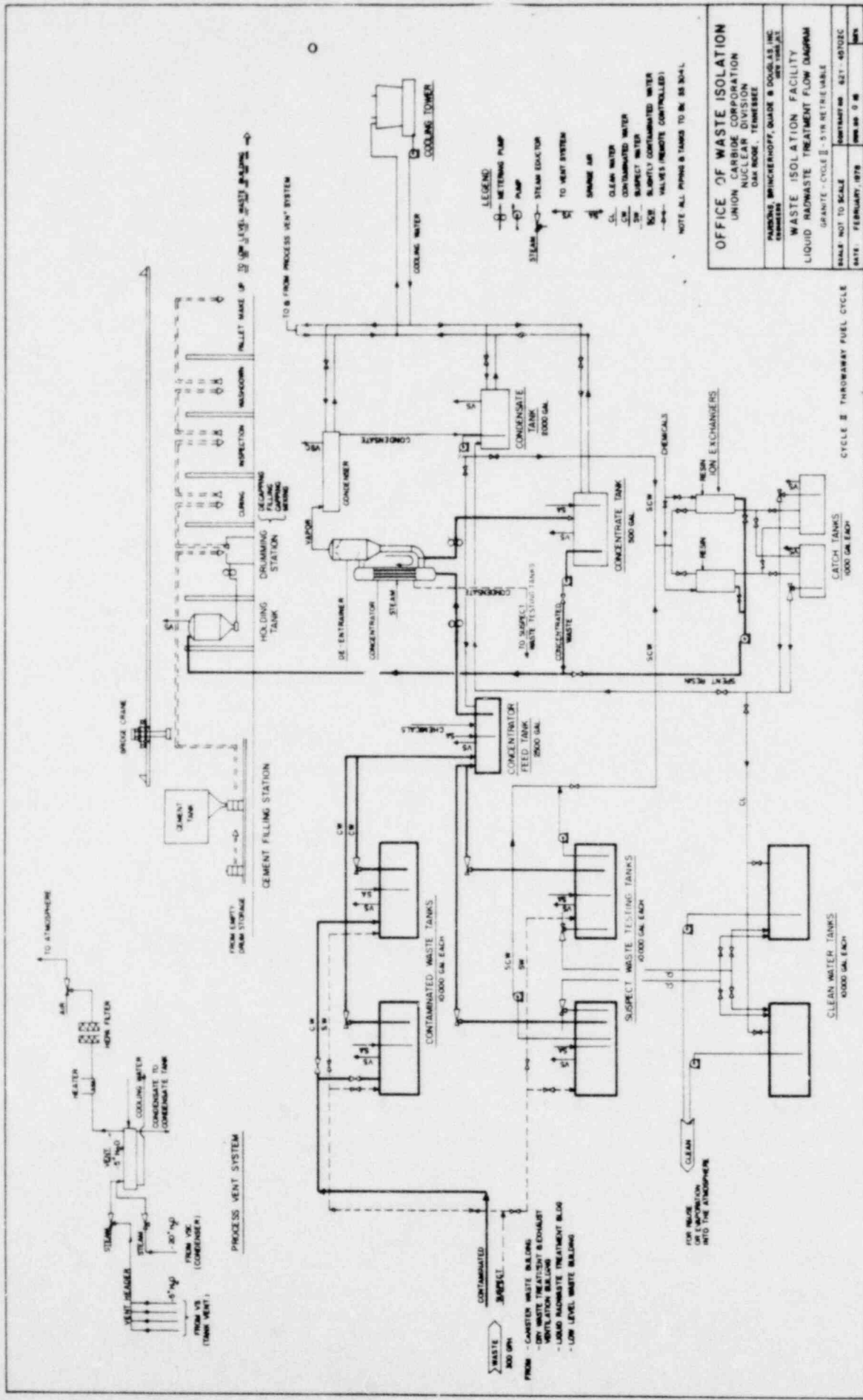
OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 OAK RIDGE, TENNESSEE

ALABAMA BRINCKERHOFF, OAKRIDGE & SOUTHWEST
 ENGINEERS

WASTE ISOLATION FACILITY
 EXHAUST VENT BUILDING
 2-3-63
 GRANITE COLLS. 518 REF. 100-100

SCALE AS SHOWN
 DATE FEBRUARY, 1978
 DRAWING NO. 511

CYCLE 3 THROUGHWAY FUEL CYCLE



OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 OAK RIDGE, TENNESSEE

WASTE ISOLATION TREATMENT FACILITY
 LIQUID RADWASTE TREATMENT FLOW DIAGRAM

GRANITE - CYCLE II - 518 RETRIEVAL
 SCALE - NOT TO SCALE
 DATE - FEBRUARY, 1978

CYCLE II THROUGHOUT FUEL CYCLE
 1000 GAL EACH

CATCH TANKS
 1000 GAL EACH

CLEAN WATER TANKS
 4000 GAL EACH

WASTE 100 GPM FROM - GARBAGE WASTE BUILDING - LOW WASTE TREATMENT & EXHAUST - LIQUID RADWASTE TREATMENT BLDG - LOW LEVEL WASTE BUILDING

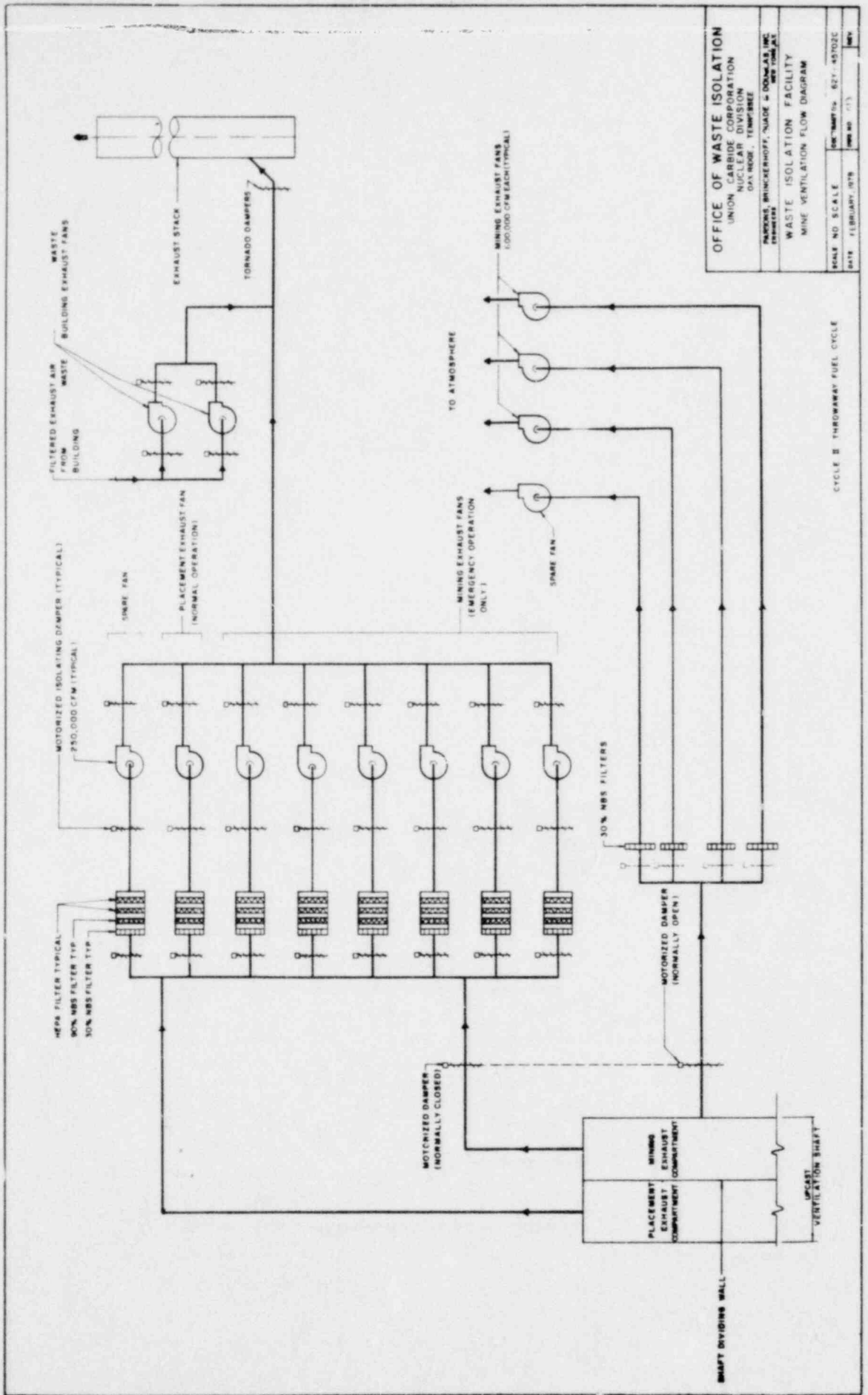
FOR INFLUX OR LUMP SUMPTION INTO THE ATMOSPHERE

LEGEND
 METERING PUMP
 PUMP
 STEAM
 TO HEAT SYSTEM
 DRAINAGE AIR

CW - CLEAN WATER
 CW - CONTAMINATED WATER
 SW - SUSPECT WATER
 SW - SLIGHTLY CONTAMINATED WATER
 V - VALVES (REMOTE CONTROLLED)

NOTE ALL PIPING & TANKS TO BE 30 GAL

PARSONS BRINCKERHOFF, QUADE & DOUGLAS, INC.
 1978 1000 0 0 0

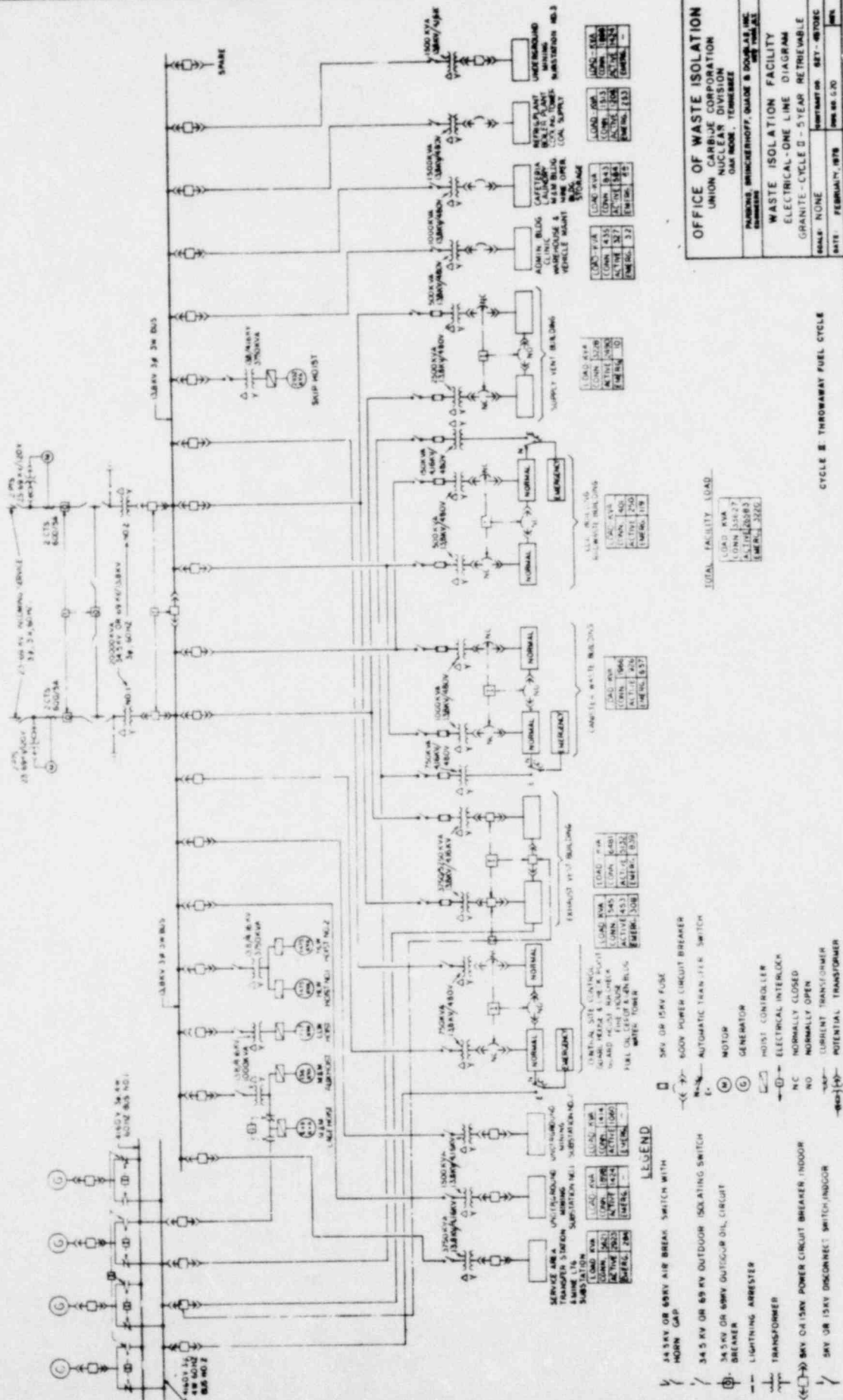


OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 DAYTON, TENNESSEE
 PARKING BRUNNENHOFF, SUITE 400 - DAYTON, OHIO 45424

WASTE ISOLATION FACILITY
 MINE VENTILATION FLOW DIAGRAM

SCALE NO. SCALE: 1/4" = 1'-0"
 DATE: FEBRUARY 1978

CYCLE B THROUGHWAY FUEL CYCLE



OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 OAK RIDGE, TENNESSEE

PARSONS BRINCKERHOFF, QUINN & DOUGLAS, INC.
 CONSULTING ENGINEERS

WASTE ISOLATION FACILITY
 ELECTRICAL ONE LINE DIAGRAM
 GRANITE-CYCLE 2 - 5 YEAR RETRIEVABLE

SCALE: NONE
 DATE: FEBRUARY, 1978
 SHEET NO. 427-4870C
 OF 4

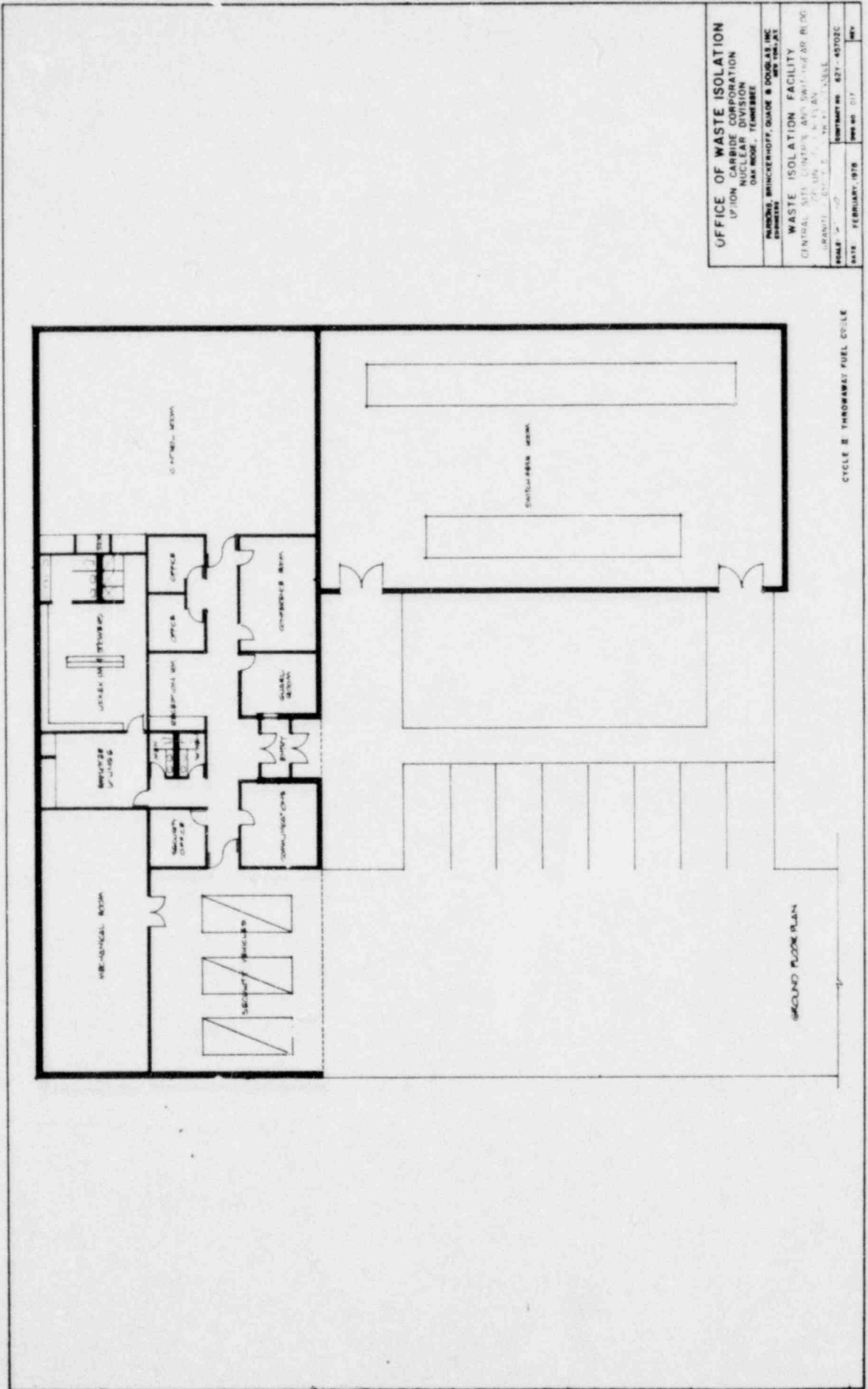
CYCLE 2 THROUWAY FUEL CYCLE

LOAD KVA	1000
LOAD AMP	1000
ACTIVE KW	1000
REACTIVE KVAR	1000

TOTAL FACILITY LOAD

LOAD KVA	1000
LOAD AMP	1000
ACTIVE KW	1000
REACTIVE KVAR	1000

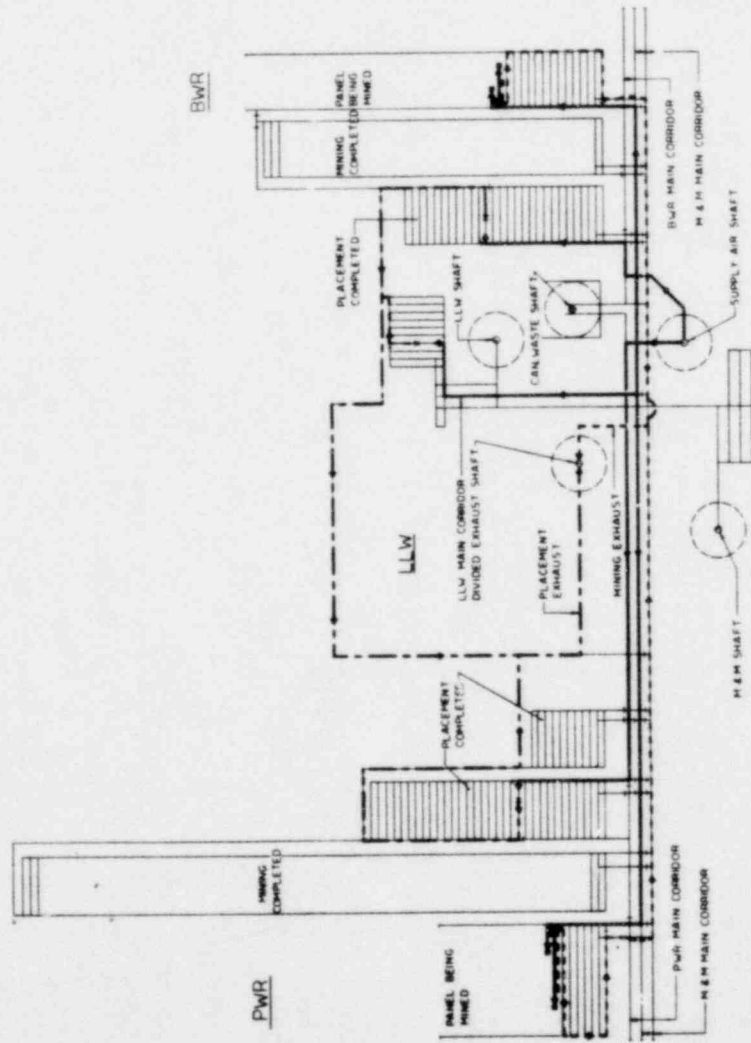
- LEGEND**
- 34.5KV OR 69KV AIR BREAK SWITCH WITH HORN GAP
 - ⊔ 34.5KV OR 69KV OUTDOOR ISOLATING SWITCH
 - ⊔ 34.5KV OR 69KV OUTDOOR OIL CIRCUIT BREAKER
 - ⊔ LIGHTNING ARRESTER
 - ⊔ TRANSFORMER
 - ⊔ 3KV OR 15KV POWER CIRCUIT BREAKER, INDOOR
 - ⊔ 3KV OR 15KV DISCONNECT SWITCH, INDOOR
 - ⊔ 3KV OR 15KV FUSE
 - ⊔ 600V POWER CIRCUIT BREAKER
 - ⊔ AUTOMATIC TRANSFER SWITCH
 - ⊔ MOTOR
 - ⊔ GENERATOR
 - ⊔ HOIST CONTROLLER
 - ⊔ ELECTRICAL INTERLOCK
 - ⊔ NORMALLY CLOSED
 - ⊔ NORMALLY OPEN
 - ⊔ CURRENT TRANSFORMER
 - ⊔ POTENTIAL TRANSFORMER



OFFICE OF WASTE ISOLATION
 CHASSIS CORPORATION
 NUCLEAR DIVISION
 DAY ROOM, TOMBESTE

WASTE ISOLATION FACILITY
 CENTRAL SITE, CHASSIS AND SUBSIDIARY OF B. O. G.
 CHASSIS CORPORATION, DAY ROOM, TOMBESTE

DATE: FEBRUARY, 1978
 DRAWING NO. 827-48702C
 SHEET NO. 017



- LEGEND**
- PLACEMENT EXHAUST AIR
 - MINING EXHAUST AIR
 - PLACEMENT & MINING SUPPLY AIR
 - PLACEMENT IN PROGRESS
 - MINING IN PROGRESS
 - ROOM OR CORRIDOR SEALED

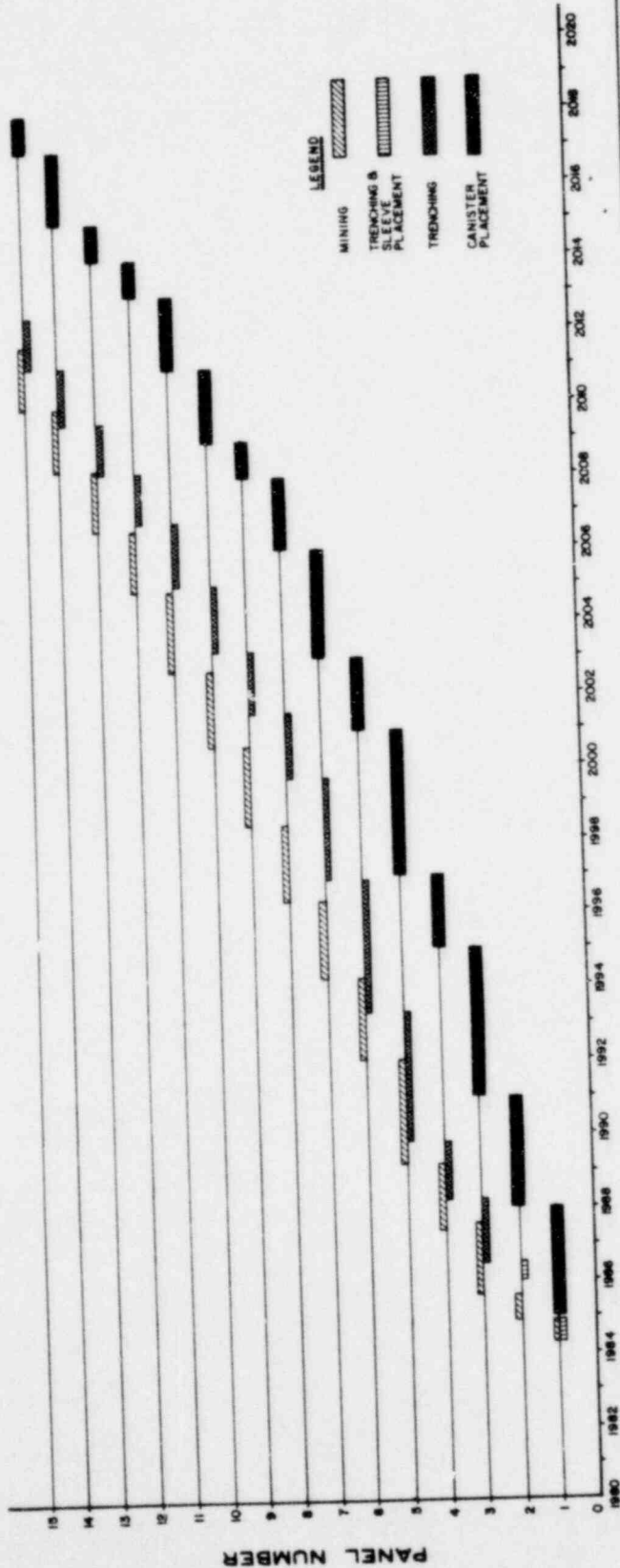
PARTIAL PLAN
MINING AND PLACEMENT VENTILATION
 FUEL CYCLE B LAYOUT SHOWN—CYCLES 1 & 2 SIMILAR

OFFICE OF WASTE ISOLATION	
UNION CARBIDE CORPORATION NUCLEAR DIVISION DAYTON, TENNESSEE	
PREPARED BY: BRUNNENBERGER, SHUCKERHOFF, SHADE & DOUGLAS, INC. MEMPHIS, TENNESSEE	
PROJECT: WASTE ISOLATION FACILITY	
DRAWING: MINE VENTILATION PLAN	
SHEET: GRANITE - CYCLE B - 5 1/2" X 11" RETRIEVABLE	
SCALE: 1" = 500'	CONTRACT NO: 887 - 48702C
DATE: FEBRUARY, 1978	ISSUE NO: 019
	REV:

CYCLE B THROWAWAY FUEL CYCLE

MINING AND PLACEMENT SCHEDULE

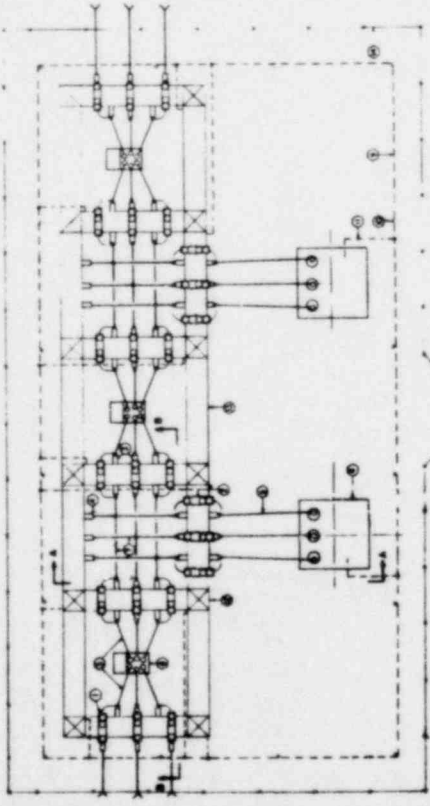
GRANITE - CYCLE II - 5 YEARS RETRIEVABLE



YEAR
BWR

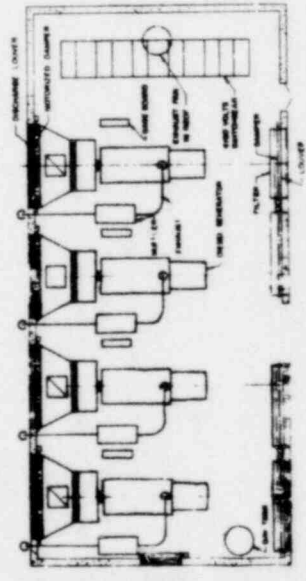
OFFICE OF WASTE ISOLATION	
UNION CARBIDE CORPORATION	
NUCLEAR DIVISION	
OAK RIDGE, TENNESSEE	
NATIONS BRUNNENHOFF, GADE & DOUGLAS, INC.	
ENGINEERS	
WASTE ISOLATION FACILITY	
BWR MINING AND PLACEMENT SCHEDULE	
GRANITE - CYCLE II - 5 YR. RETRIEVABLE	
DRAWN BY	WJW/STW/STW
CHECKED BY	STW
DATE	FEBRUARY, 1978
SCALE	AS SHOWN

CYCLE II THROUGHWAY FUEL CYCLE

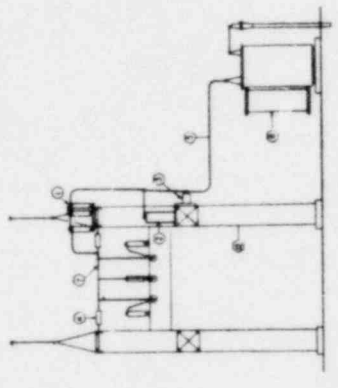


SUB-STATION PLAN

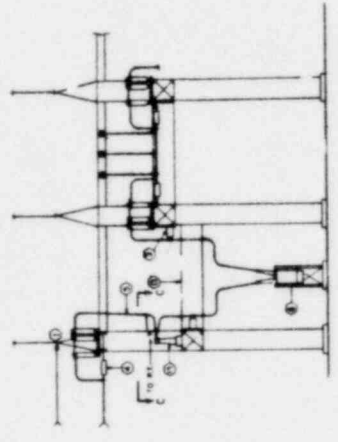
LINE NUMBER	DESCRIPTION
1	MAIN BUS
2	ISOLATION SWITCH
3	ISOLATION SWITCH
4	ISOLATION SWITCH
5	ISOLATION SWITCH
6	ISOLATION SWITCH
7	ISOLATION SWITCH
8	ISOLATION SWITCH
9	ISOLATION SWITCH
10	ISOLATION SWITCH
11	ISOLATION SWITCH
12	ISOLATION SWITCH
13	ISOLATION SWITCH
14	ISOLATION SWITCH
15	ISOLATION SWITCH
16	ISOLATION SWITCH



STANDBY GENERATOR



SECTION A-A



SECTION B-B



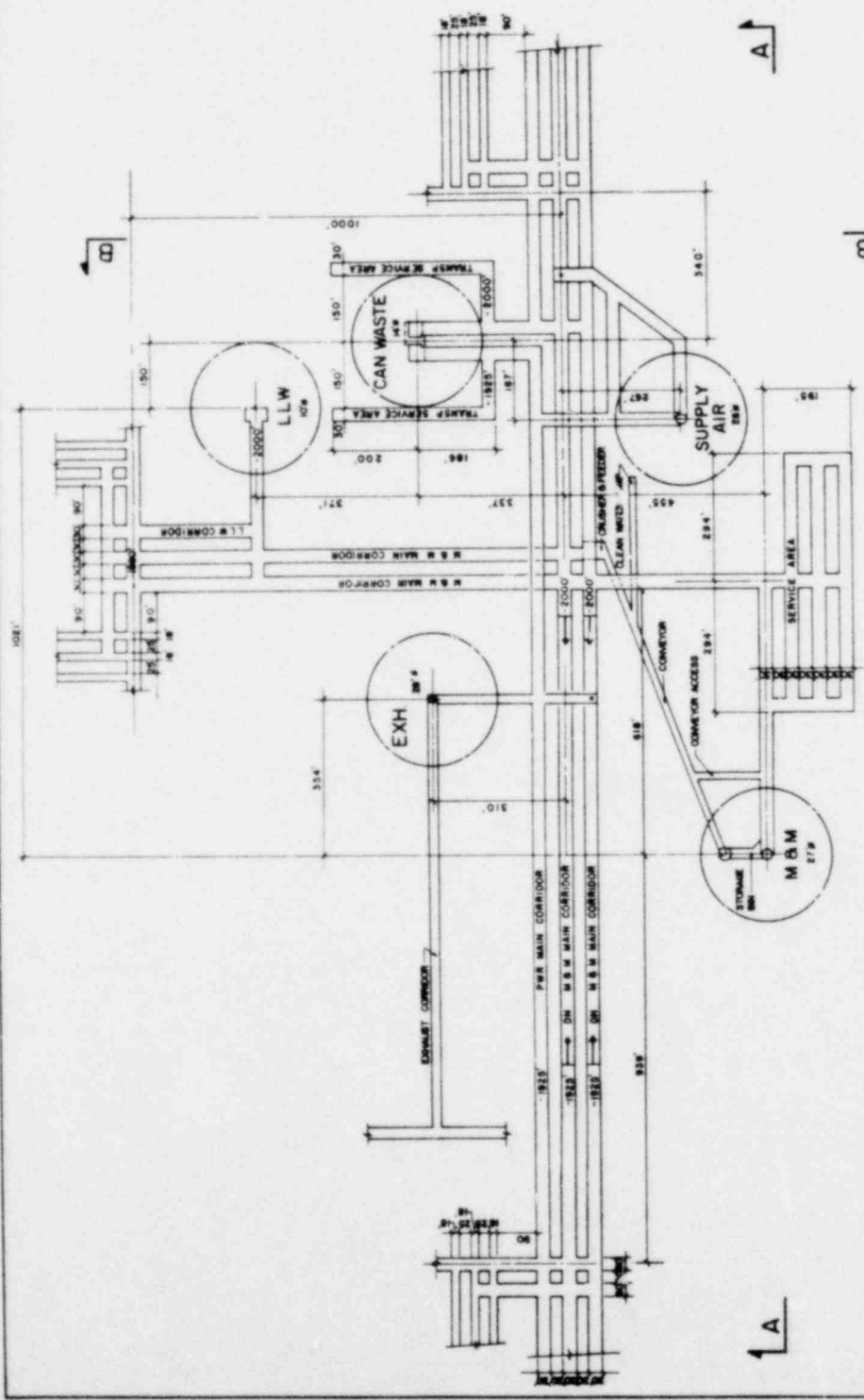
SECTION C-C

OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 OAK RIDGE, TENNESSEE

PAUL H. BRUNCKHOFF, CHIEF ENGINEER
 WASTE ISOLATION FACILITY
 MAIN ELECTRICAL SUBSTATION
 AND STANDBY GENERATOR

DATE: FEBRUARY, 1978
 SHEET NO. 57
 CONTRACT NO. 837-45702C
 REV.

CYCLE II THROWAWAY FUEL CYCLE



NOTE:
1. FOR SECTIONS A-A & B-B SEE DRAWING 427

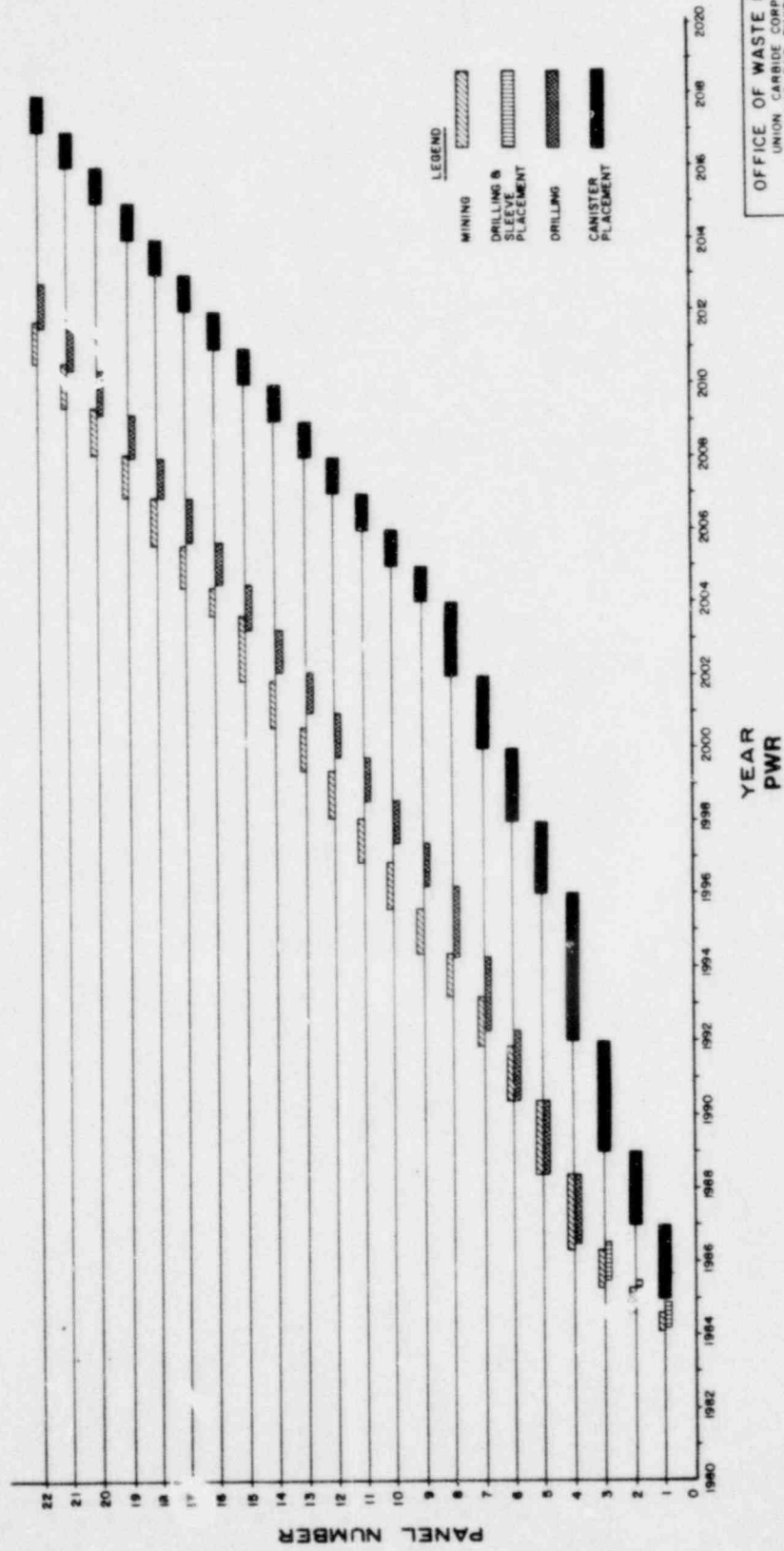
MINE PARTIAL PLAN
SCALE: 1" = 120'

CYCLE B THROUGHWAY FUEL CYCLE

OFFICE OF WASTE ISOLATION	
UNION CARBIDE CORPORATION	
NUCLEAR DIVISION	
OAK RIDGE, TENNESSEE	
PARSONS BRINCKERHOFF, GRADE & DOUGLAS, INC.	
DESIGNERS	
WASTE ISOLATION FACILITY	
MINE PARTIAL PLAN	
GRANITE-CYCLE II - 5 YR RETRIEVABLE	
SCALE: 1" = 120'	PROJECT NO. 827-48705C
DATE: FEBRUARY, 1978	REV. NO. 026
	DATE:

MINING AND PLACEMENT SCHEDULE

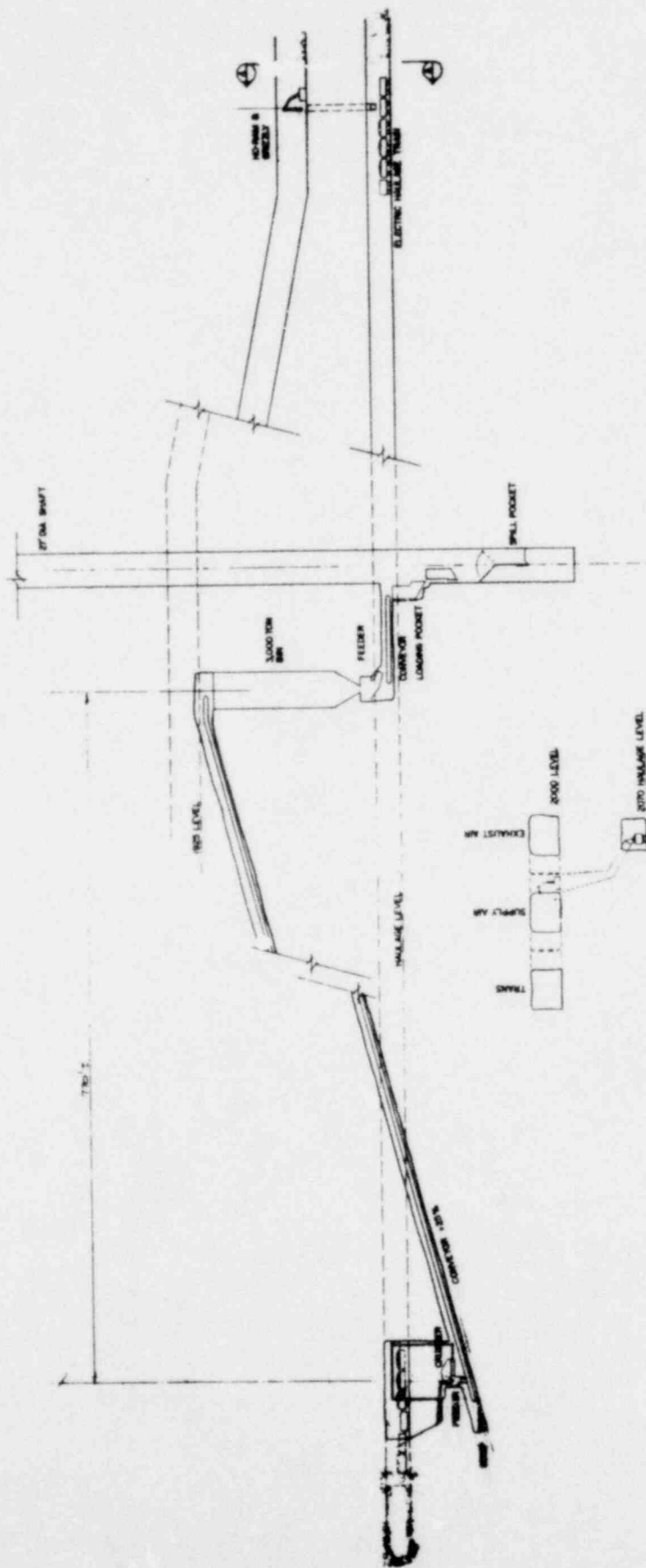
GRANITE - CYCLE II - 5 YEARS RETRIEVABLE



YEAR
PWR

OFFICE OF WASTE ISOLATION	
UNION CARBIDE CORPORATION NUCLEAR DIVISION 2000 W. BIRCHWOOD AVENUE MEMPHIS, TENNESSEE	
WASTE ISOLATION FACILITY	
PWR MINING AND PLACEMENT SCHEDULE	
GRANITE - CYCLE II - 5 YR. RETRIEVABLE	
SCALE	CONTRACT NO. 627-45702C
DATE: FEBRUARY, 1978	ISS. NO. 023
	REV

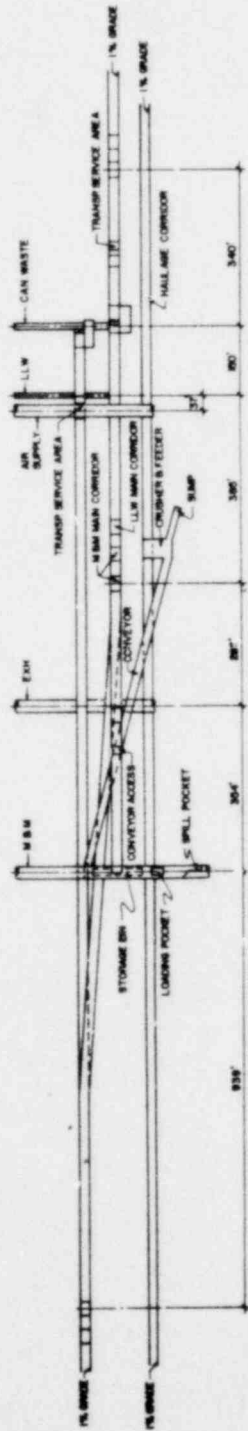
CYCLE II - GRANITE - FUEL - 5 YR



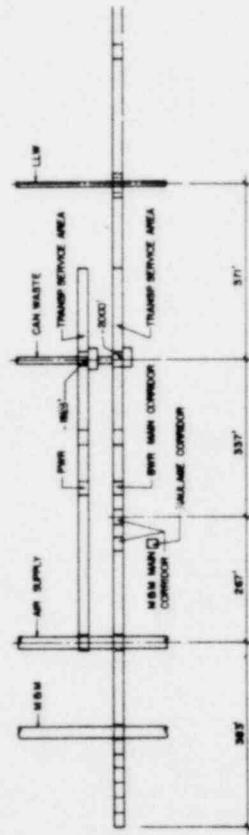
OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 ONE WOODS, FERRISBURGH

PARSONS BRINCKERHOFF, WASHINGTON, D.C.
 WASTE ISOLATION FACILITY
 CRUISER/CONNECTOR SYSTEM-SECTION
 DRAWING SYMBOL NO. 3.11. 100 LEVEL
 DATE: FEBRUARY, 1978

CYCLE 8: THROWAWAY FUEL - CYCLE



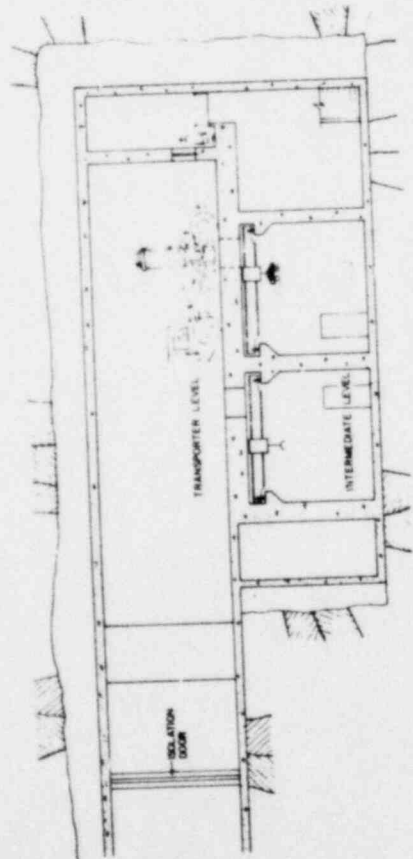
SECTION A-A



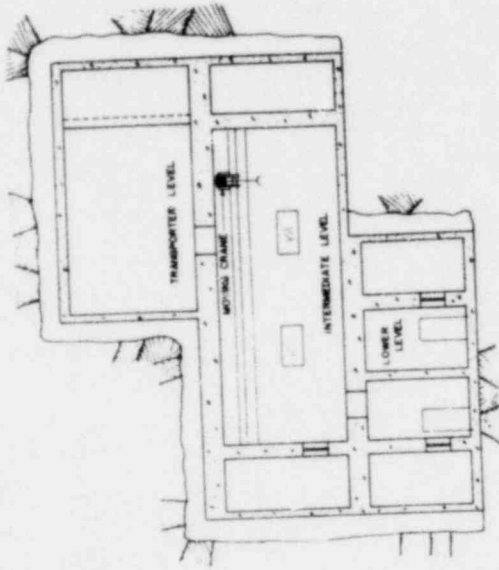
SECTION B-B

OFFICE OF WASTE ISOLATION	
UNION CARBIDE CORPORATION	
WASTE ISOLATION FACILITY	
DAN RUSSELL, ENGINEER	
DAN RUSSELL, ENGINEER	
WASTE ISOLATION FACILITY	
SECTION A-A & B-B	
GRANITE CYCLE - 310 METERS	
SCALE 1"=100'	CONTINUATION OF 817-01020C
DATE FEBRUARY, 1979	ISSUE NO. 2 27
	REV.

CYCLE B THROUGHWAY FULL CYCLE

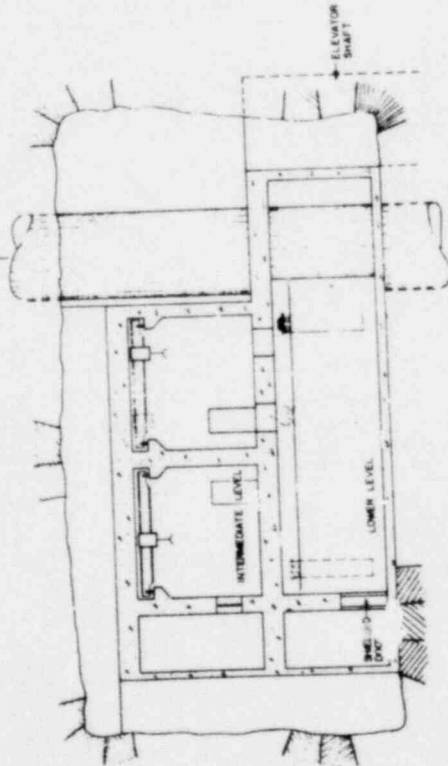


SECTION A-A



SECTION B-B

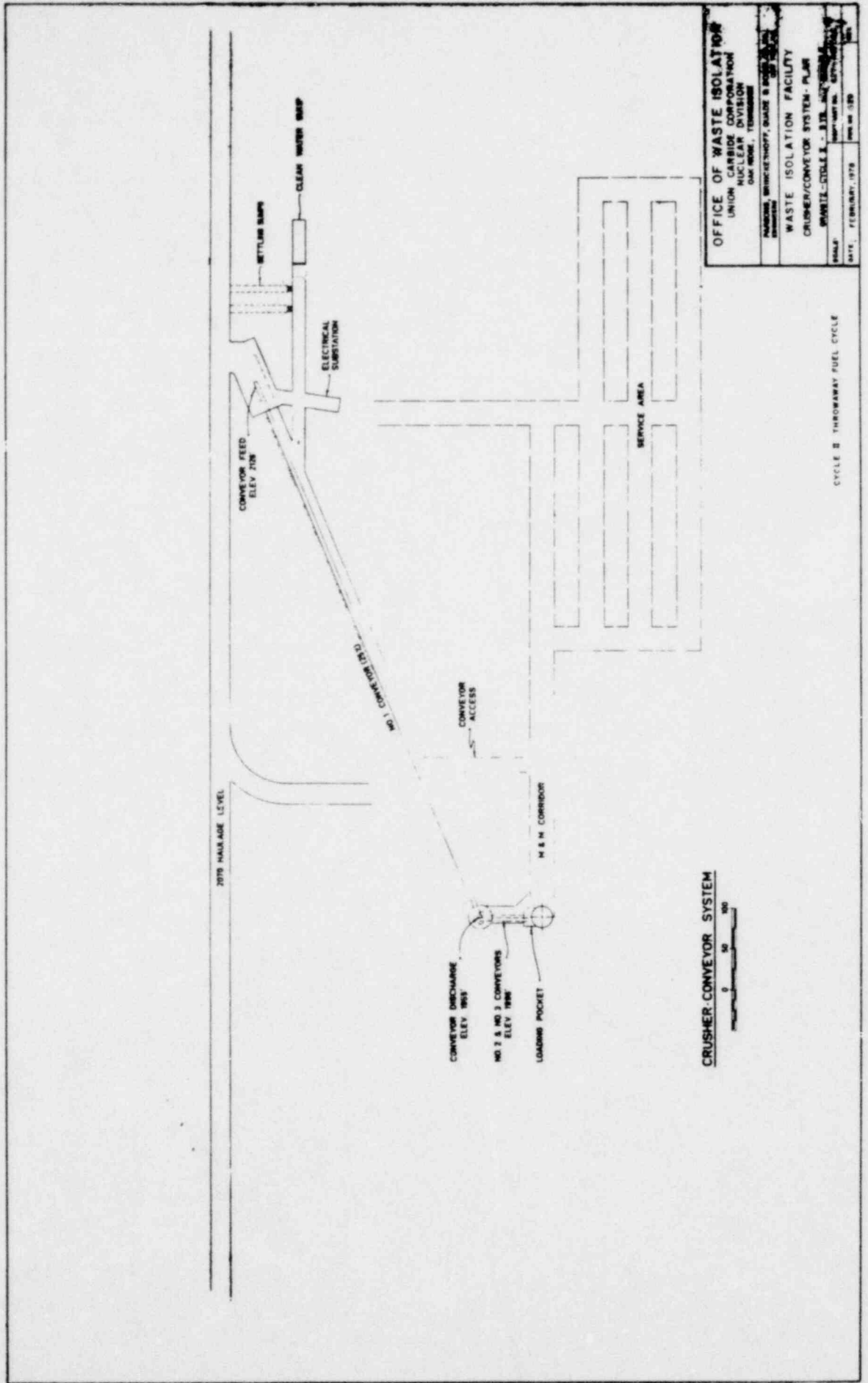
TO CONTAINED WASTE HANDLING BUILDING



SECTION C-C

OFFICE OF WASTE ISOLATION	
UNION CARBIDE CORPORATION	
NUCLEAR DIVISION	
DAS ROOM, TENDON	
DRAWING: BRUNNENHOFF, GARDNER & VOLLMER, INC.	
DATE: FEBRUARY, 1978	
PROJECT NO. 687-40700C	
SHEET NO. 032	
DATE: FEBRUARY, 1978	

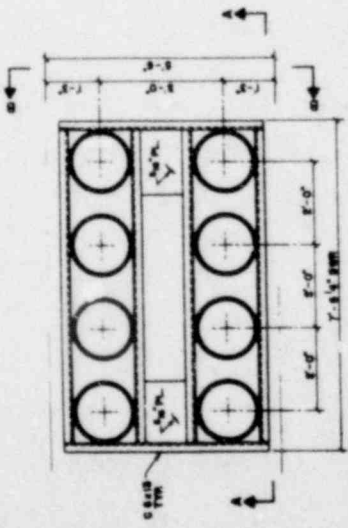
CYCLE...



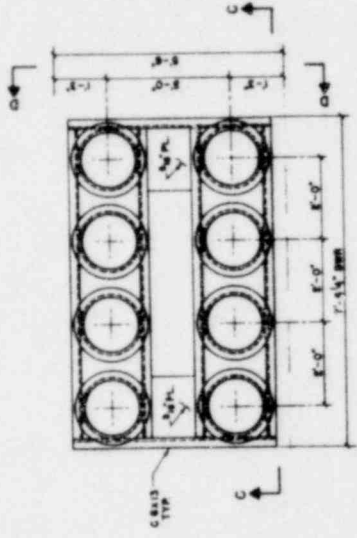
OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 DAYTON, TENNESSEE

WASTE ISOLATION FACILITY
 CRUSHER/CONVEYOR SYSTEM - PLAN
 DRAWN BY: [Signature]
 DATE: FEBRUARY, 1978

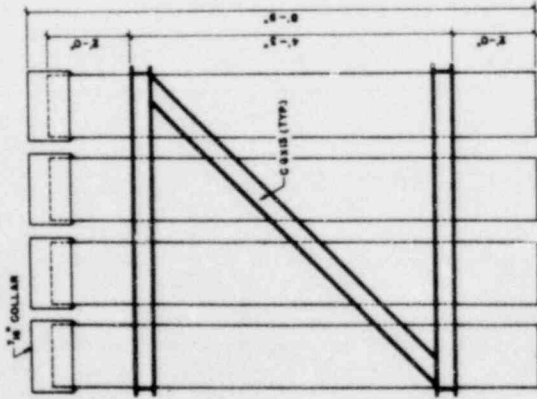
CYCLE 2 THROUGHWAY FUEL CYCLE



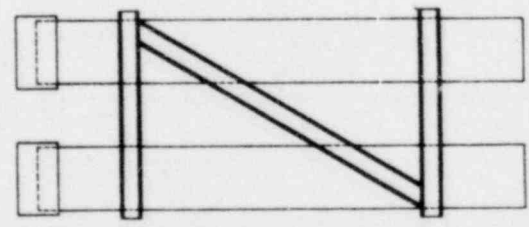
CANISTER PLACEMENT ASSEMBLY PLAN



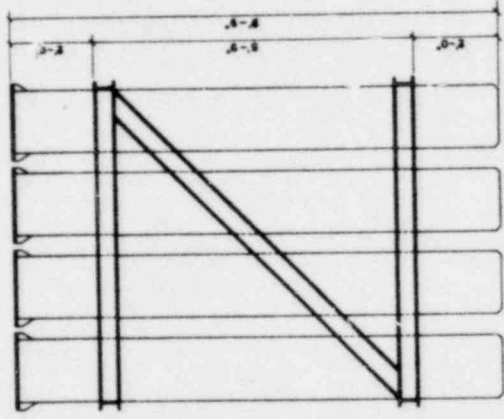
CANISTER PLACEMENT ASSEMBLY TOP VIEW



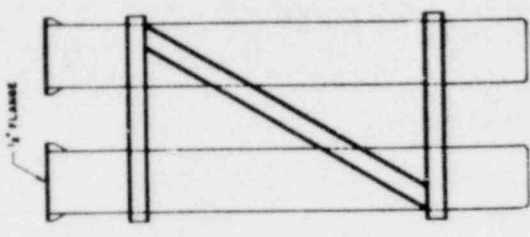
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

NOTE:
CANISTERS ARE FOR RETRIEVABLE WASTE PLACEMENT ONLY
(INITIAL EYE PENDING)

OFFICE OF WASTE ISOLATION
UNION CARBIDE CORPORATION
NUCLEAR DIVISION
OAK RIDGE, TENNESSEE

NATIONAL ENGINEERING, QUASE & SOLARIS, INC.
1000 W. 10TH ST.
DENVER, CO. 80202

WASTE ISOLATION FACILITY
STORAGE CASING ASSEMBLIES

GRANITE-COUPLE 8-9 TR. RETRIEVABLE

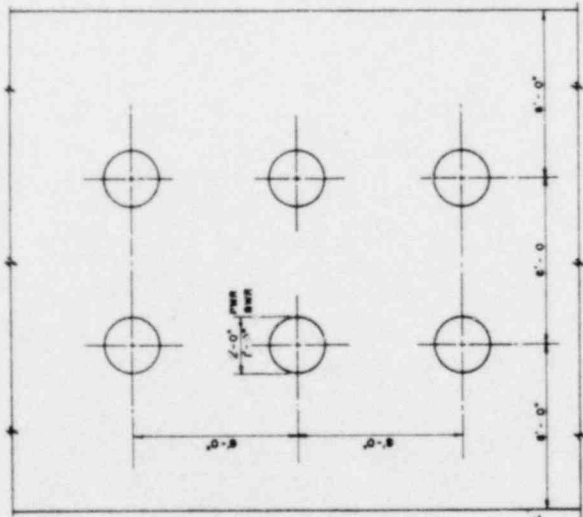
SCALE: 1/4" = 1'-0"

DATE: FEBRUARY, 1978

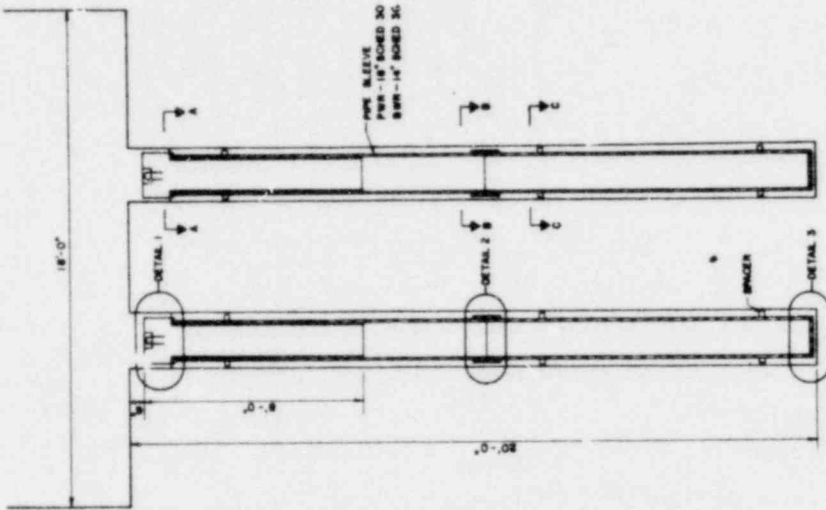
DESIGNER: M. B. B. 834

DATE: FEBRUARY, 1978

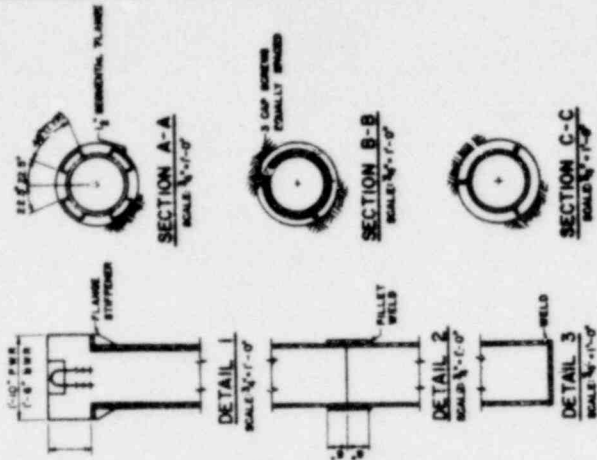
CYCLE 2: THROWAWAY FUEL CYCLE



CANISTER DETAIL
SCALE 1/2" = 1'-0"



CANISTER PLACEMENT PLAN
SCALE 1/4" = 1'-0"



CANISTER PLACEMENT ELEVATION
SCALE 1/2" = 1'-0"



SECTION A-A
SCALE 1/2" = 1'-0"



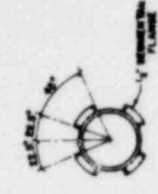
SECTION B-B
SCALE 1/2" = 1'-0"



SECTION C-C
SCALE 1/2" = 1'-0"

OFFICE OF WASTE ISOLATION	
UNION CARBIDE CORPORATION	
NUCLEAR DIVISION	
OAK RIDGE, TENNESSEE	
PARSONS BRINCKERHOFF, SHAW & DOUGLAS, INC.	
ENGINEERS	
WASTE ISOLATION FACILITY	
CANISTERED WASTE STORAGE	
UNIT - CYCLE 2 - STA. 87A-87E (REV. 1)	
SCALE AS SHOWN	DATE: FEBRUARY, 1978
DESIGNER: [unreadable]	DRWING NO. 534

CYCLE 2 - THROWAWAY FUEL CYCLE



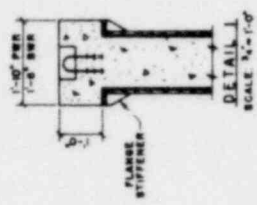
SECTION A-A
SCALE 1/2" = 1'-0"



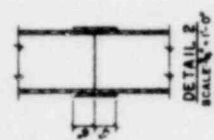
SECTION B-B
SCALE 1/2" = 1'-0"



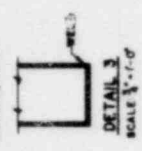
SECTION C-C
SCALE 1/2" = 1'-0"



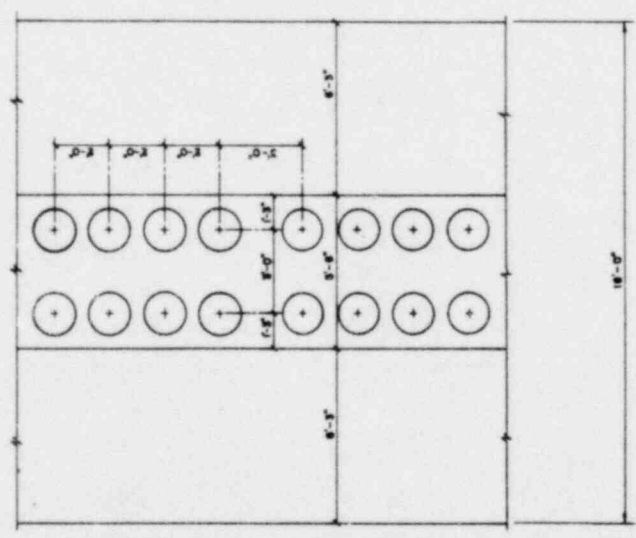
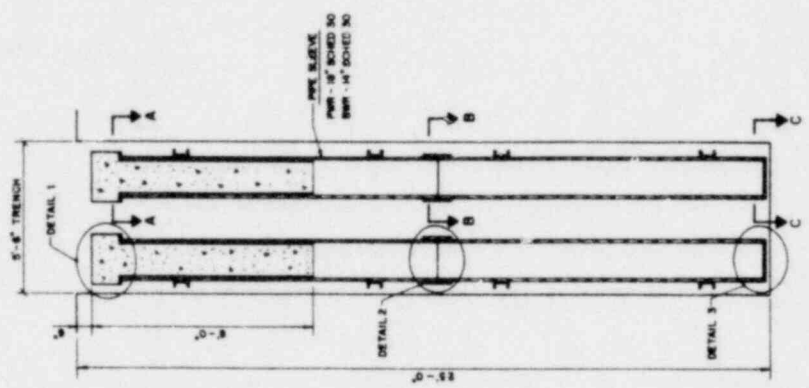
DETAIL 1
SCALE 1/2" = 1'-0"



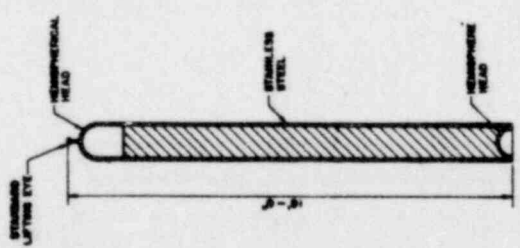
DETAIL 2
SCALE 1/2" = 1'-0"



DETAIL 3
SCALE 1/2" = 1'-0"



CANISTER PLACEMENT PLAN
SCALE 1/2" = 1'-0"



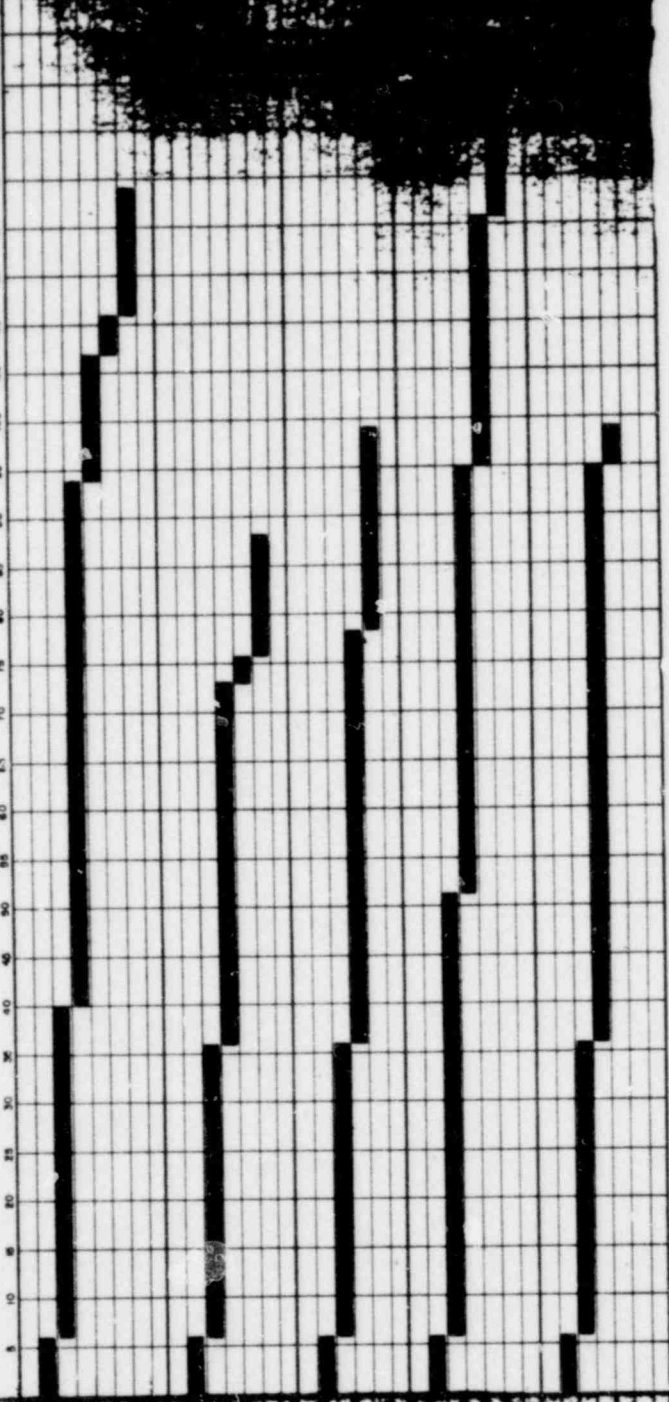
CANISTER DETAIL
SCALE 1/2" = 1'-0"

OFFICE OF WASTE ISOLATION	
UNION CARBIDE CORPORATION	
NUCLEAR DIVISION	
CAN. NO. 1, TENNESSEE	
DRAWING BY: STUCKESHOFF, SHANK & DOUGLAS, INC.	
CHECKED BY: J. H. HARRIS	
WASTE ISOLATION FACILITY	
CANISTERED WASTE STORAGE	
GRANITE-CYCLE 3-5 YR. RETRIEVABLE	
SCALE: AS SHOWN	DATE: FEBRUARY, 1978
PROJECT NO. 457-AP05C	DWG. NO. 933

CYCLE 3 THROWAWAY FUEL CYCLE

TIME IN WEEKS

1 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140

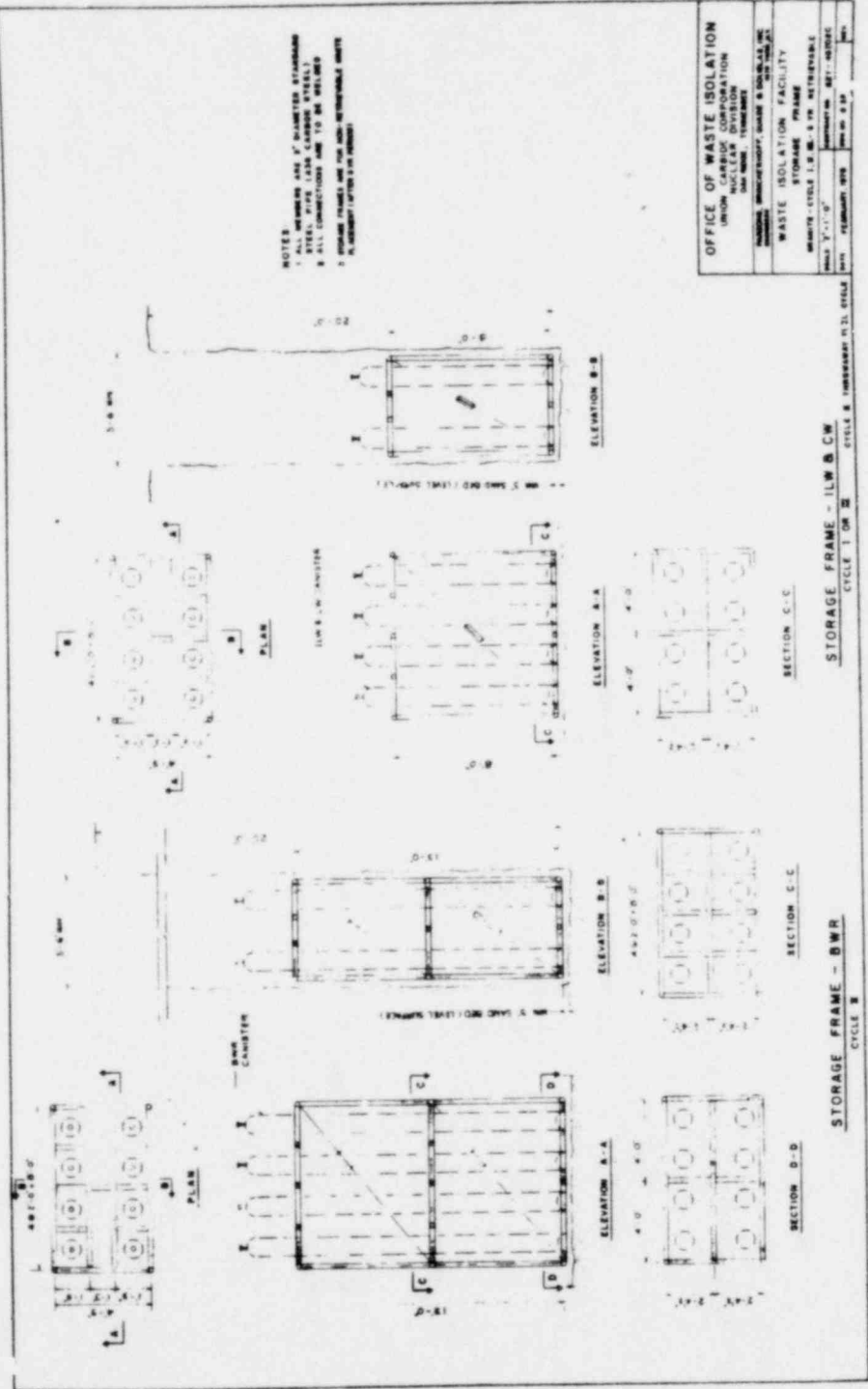


OFFICE OF WASTE
 UNION CARBIDE
 NUCLEAR DIVISION
 1000 WEST 10TH AVENUE
 PITTSBURGH, PENNSYLVANIA 15204

WASTE ISOLATION FACILITY
 SHAFT CONSTRUCTION SCHEDULE

SHAFT CYCLE 2 - 1000 WEST 10TH AVENUE
 DATE: FEBRUARY, 1979

CYCLE 2 THROUGHWAY FUEL CYCLE



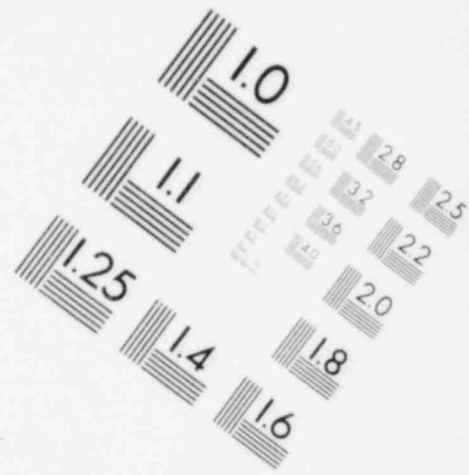
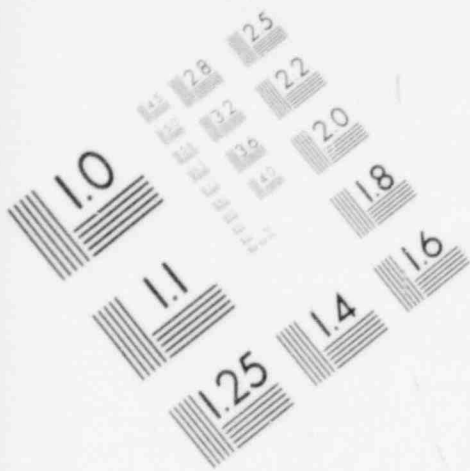
NOTES
 1. ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE SPECIFIED.
 2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE BUILDING CODES AND SPECIFICATIONS.
 3. MATERIALS SHALL BE OF THE HIGHEST QUALITY AVAILABLE.
 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.

OFFICE OF WASTE ISOLATION	
UNION NUCLEAR DIVISION	
SAN FRANCISCO, CALIFORNIA	
PROJECT: WASTE ISOLATION FACILITY	
DRAWING: STORAGE FRAME	
DATE: 11-1-67	SCALE: AS SHOWN
BY: [Signature]	CHECKED: [Signature]

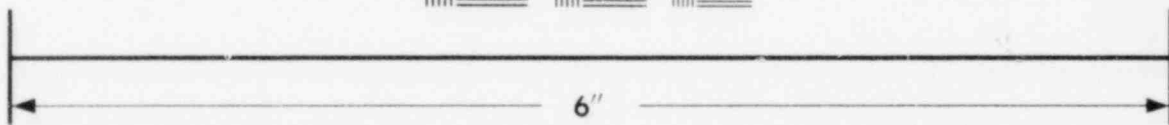
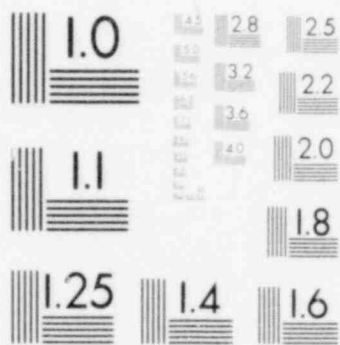
STORAGE FRAME - ILW B CW
 CYCLE 1 OR 2

STORAGE FRAME - BWR
 CYCLE 3

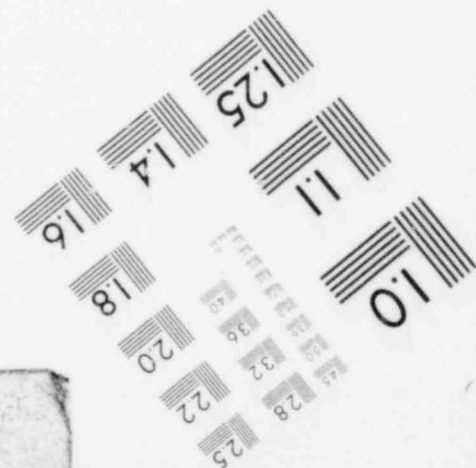
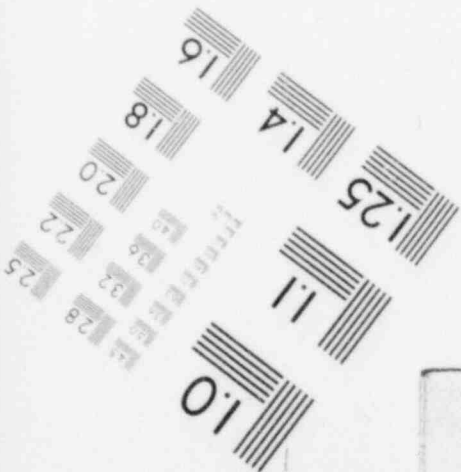
STORAGE FRAME - BWR
 CYCLE 3

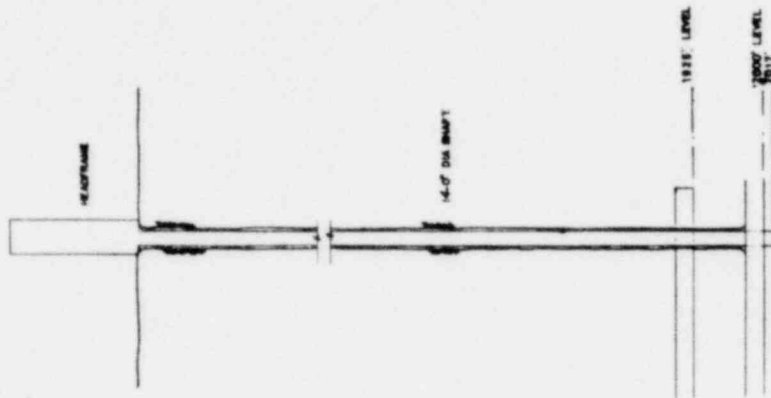


**IMAGE EVALUATION
TEST TARGET (MT-3)**

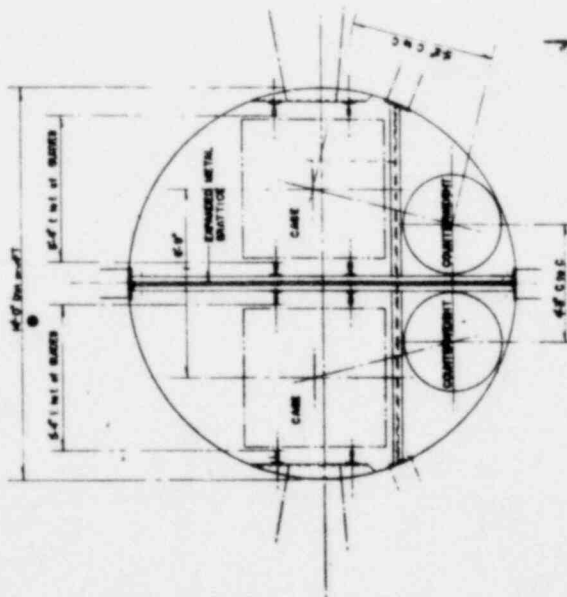


MICROCOPY RESOLUTION TEST CHART

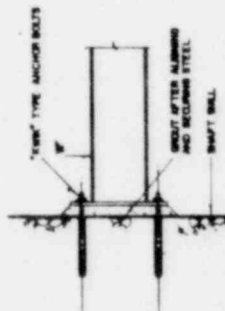




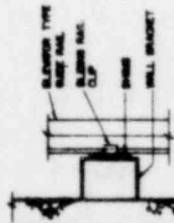
SHAFT SECTION



PLAN OF SHAFT



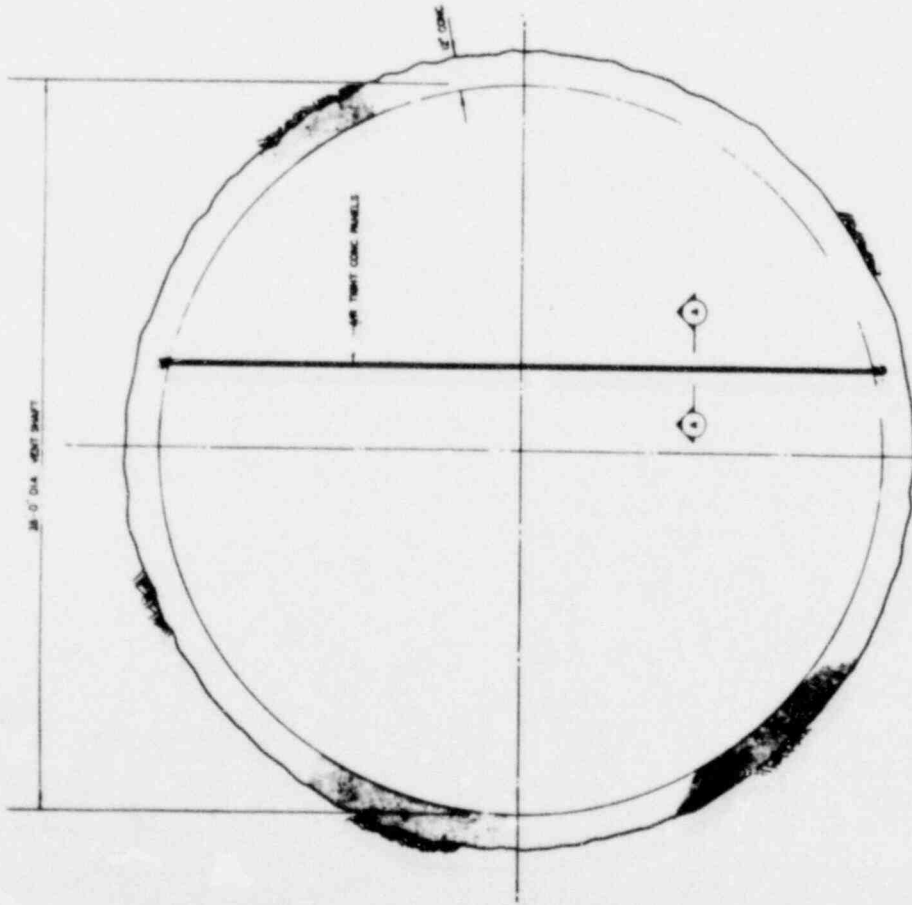
TOP SECTION TO WALL
CONNECT'N



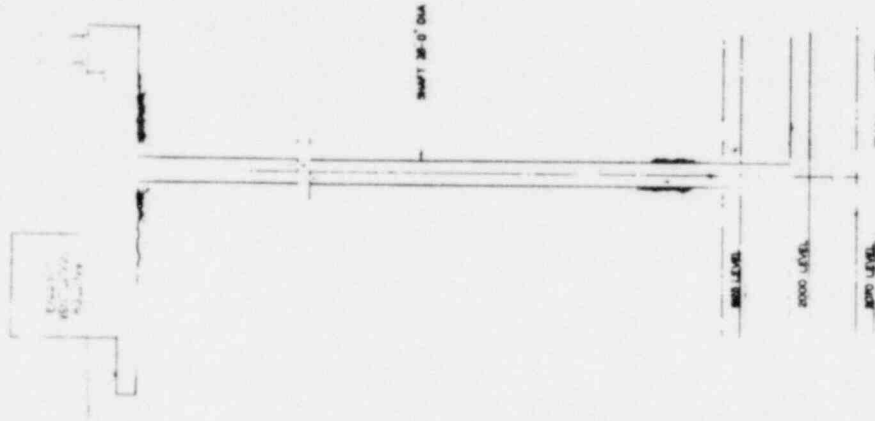
TOP SECTION BAR CONNECT'N

OFFICE OF WASTE ISOLATION UNION CARBIDE CORPORATION NUCLEAR DIVISION DATE: 1/27/78	
WASTE ISOLATION FACILITY CONTAINED WASTE SHAFT	
SHAFT	SHAFT - CYCLE 2 - 8 IN. DIAMETER
DATE: FEBRUARY, 1978	REV. NO. 1.00

CYCLE 2 THROUWAY FUEL CYCLE



PLAN OF SHAFT



SHAFT SECTION

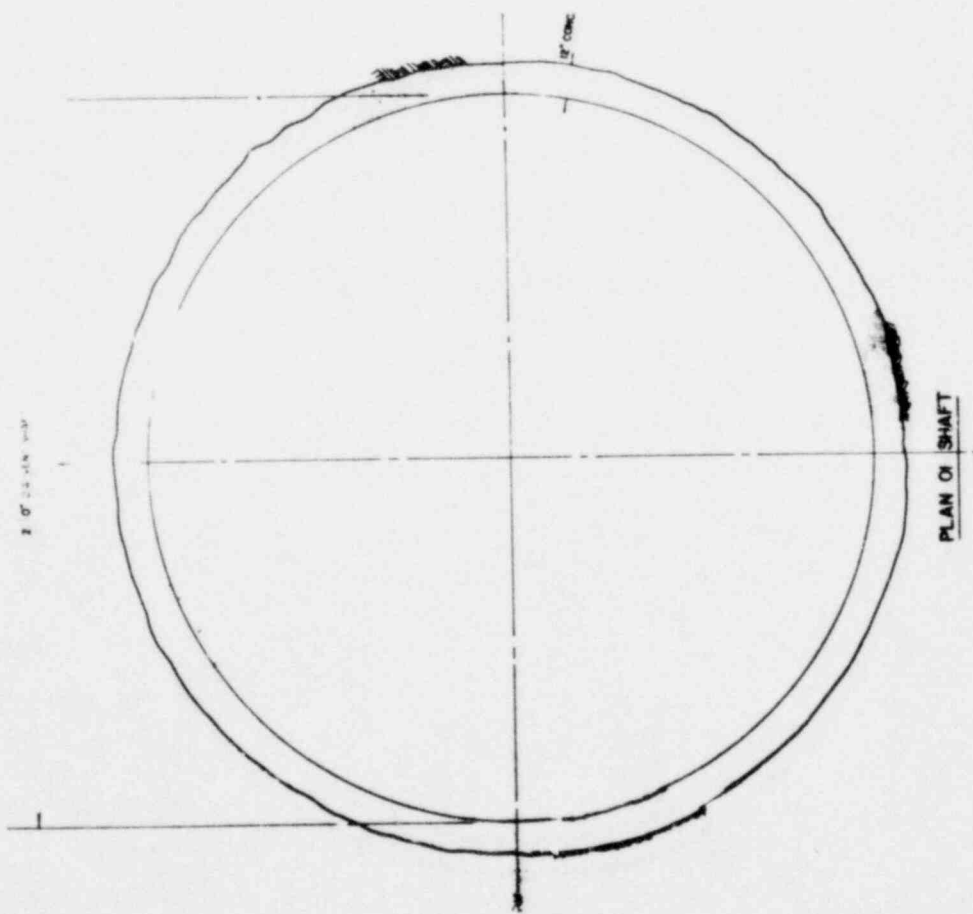
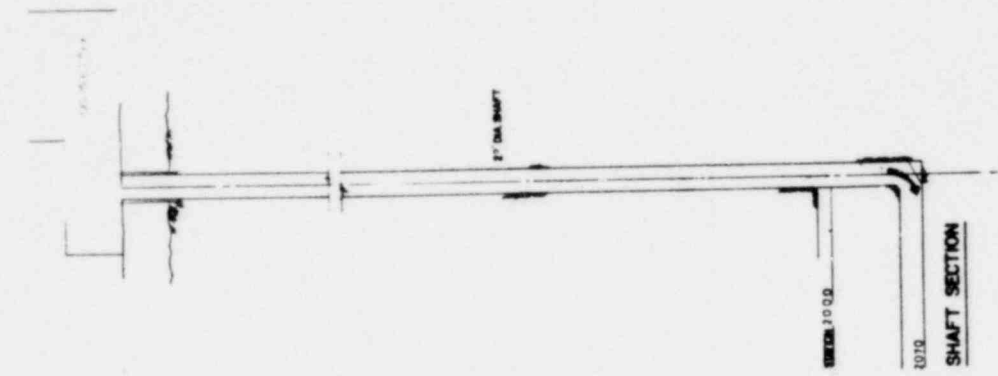
CYCLE II THROWAWAY FUEL CYCLE

SECTION 36-0

OFFICE OF WASTE
UNION CARBIDE CORP.
NUCLEAR DIVISION
DOW BRIDGE, YORKVILLE, ILL.

WASTE ISOLATION FACILITY
VENTILATION EXHAUST SHAFT

GRANITE - CYCLE II - 342L SETBACKS
DRAWN BY: [illegible]
DATE: FEBRUARY, 1978



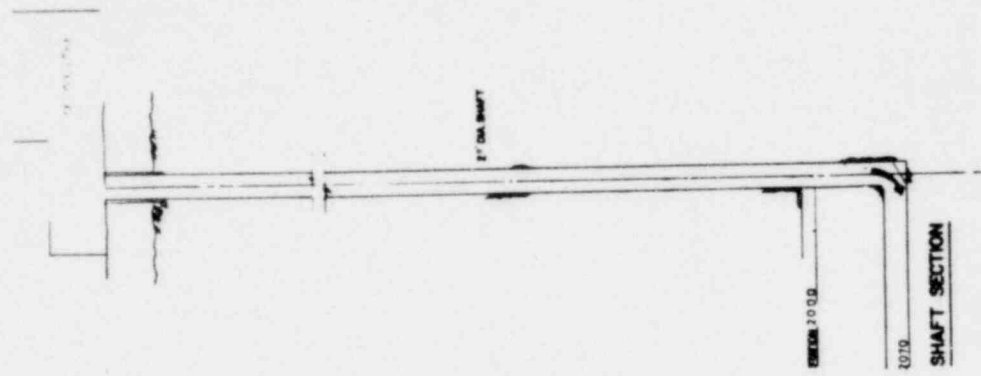
OFFICE OF WASTE
 UNION CARBIDE CO.
 NUCLEAR DIV.
 ONE BOSTON PLACE
 BOSTON, MASSACHUSETTS, U.S.A.

WASTE ISOLATION FACILITY
 VENTILATION SUPPLY SHAFT
 GRANITE CYCLE # 514 DESIGN DRAWING
 DRAWING NO. 127-10000
 DATE: FEBRUARY, 1978

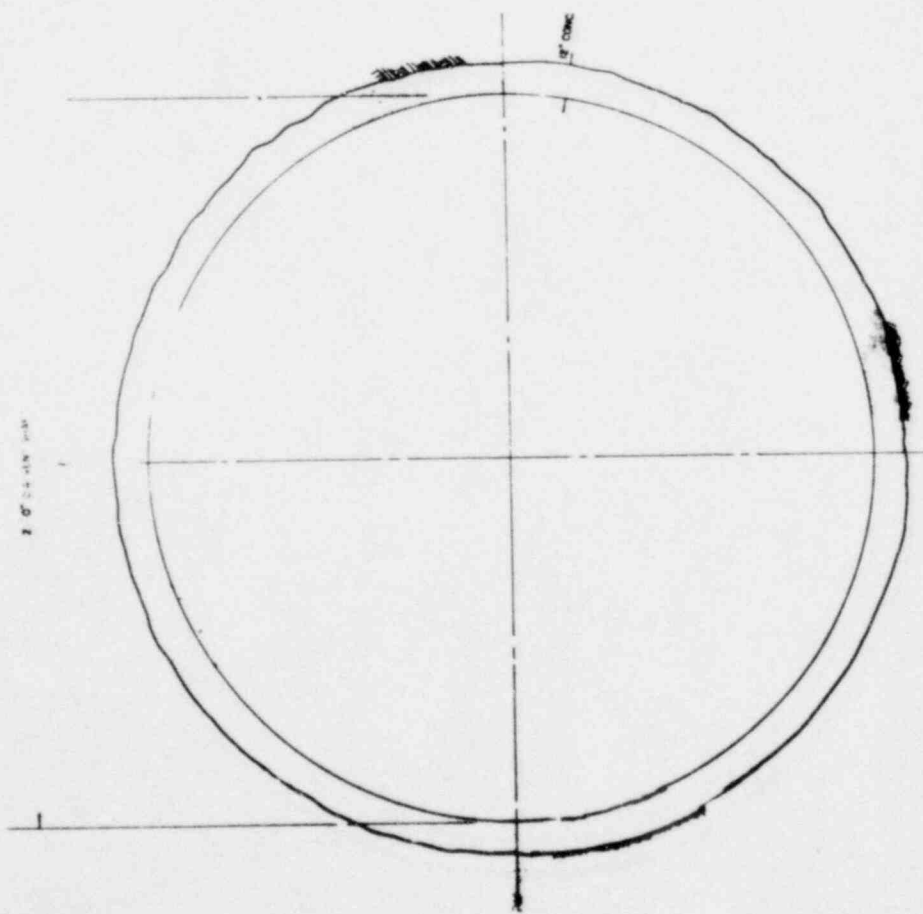
CYCLE # THROUWAY FUEL CYCLE

SHEET 3000
 2010
SHAFT SECTION

PLAN OF SHAFT



SHAFT SECTION



PLAN OF SHAFT

OFFICE OF WASTE
 UNION CARBIDE CO.
 NUCLEAR DIV.
 ONE BLDG. 100
 MORRISTOWN, NEW JERSEY

WASTE ISOLATION SHAFT
 VENTILATION SUPPLY SHAFT
 GRANITE CYCLE 3, 514, BEING SERIAL

SCALE: 1/8" = 1'-0"
 DATE: FEBRUARY, 1978
 JOB NO. 1-43

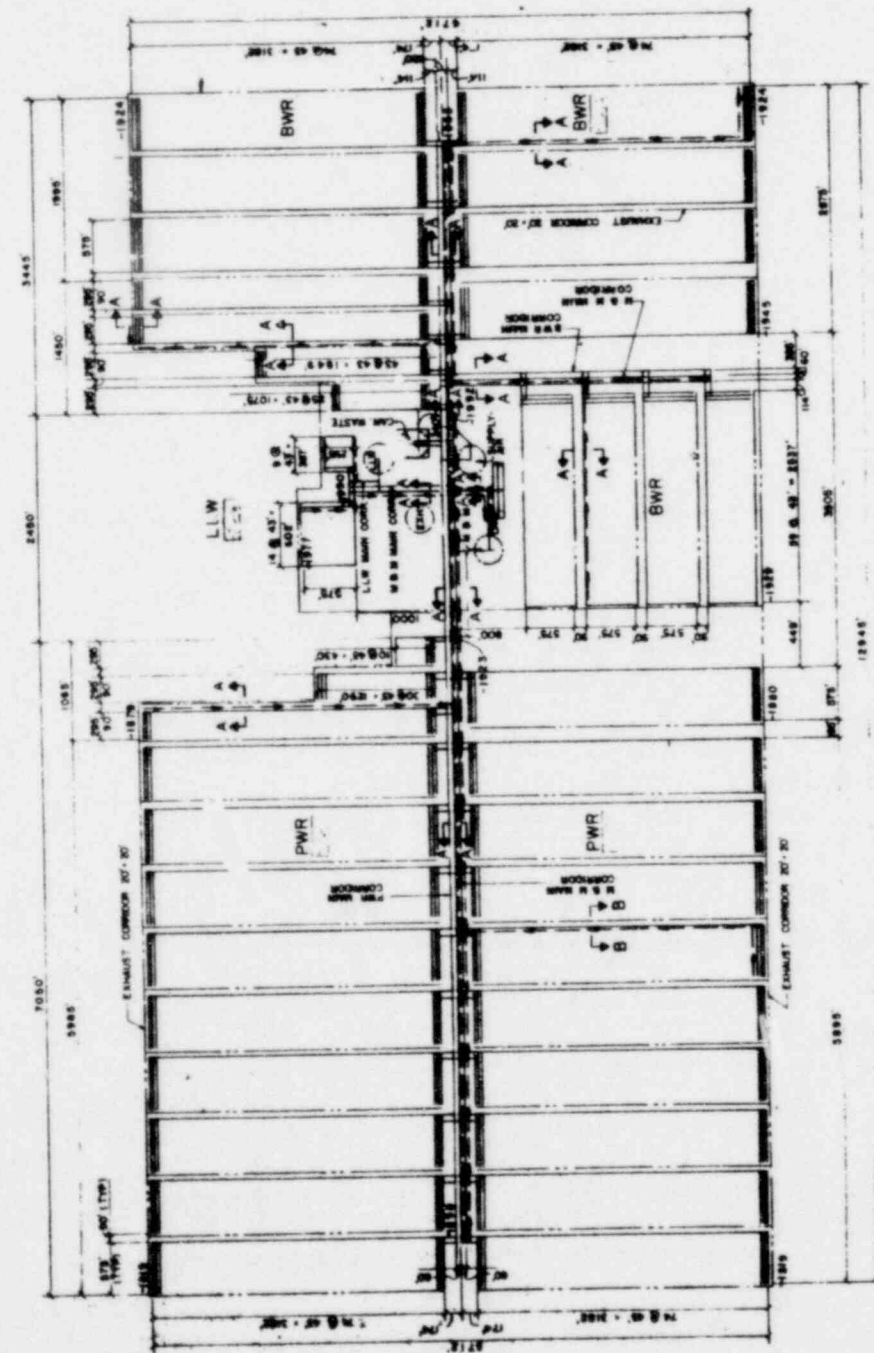
CYCLE 3 THROUWAY FUEL CYCLE



SECTION A-A

NOTES-

1. ALL LINES SHOW REPRESENT THE CENTER LINES OF EITHER ROOMS OR CORRIDORS.
2. FOR SHAFT AREA DETAIL, SEE DRAWING 608.
3. PWR - PRESSURIZED WATER REACTOR WASTE
BWR - BOLLING WATER REACTOR WASTE
LLW - LOW LEVEL WASTE
4. FOR ROOM CROSS SECTIONS, SEE DRAWING 609.
5. ROOM SIZES:
PWR 140' x 100' x 8' 6\"/>



MINE DRAINAGE PLAN

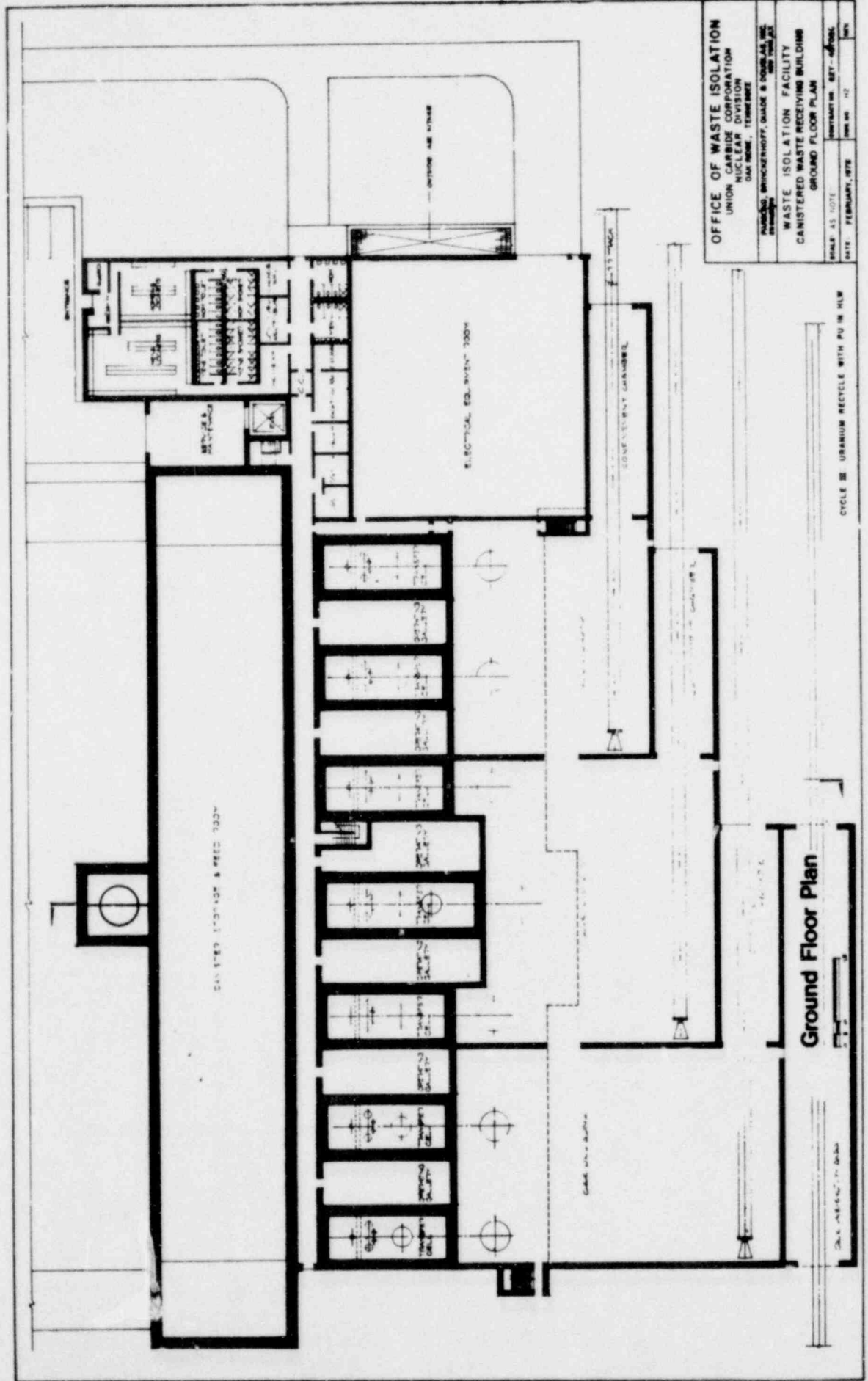
NOTES:
DRAINAGE PLAN FOR CYCLE II IS SHOWN
DRAINAGE PLANS FOR CYCLE I & III ARE SIMILAR.

OFFICE OF WASTE ISOLATION
UNION CARBIDE CORPORATION
NUCLEAR DIVISION
DAYTON, OHIO

WASTE ISOLATION FACILITY
MINE DRAINAGE PLAN
DRAWING NO. - 214
REVISIONS

DATE: 10/15/70

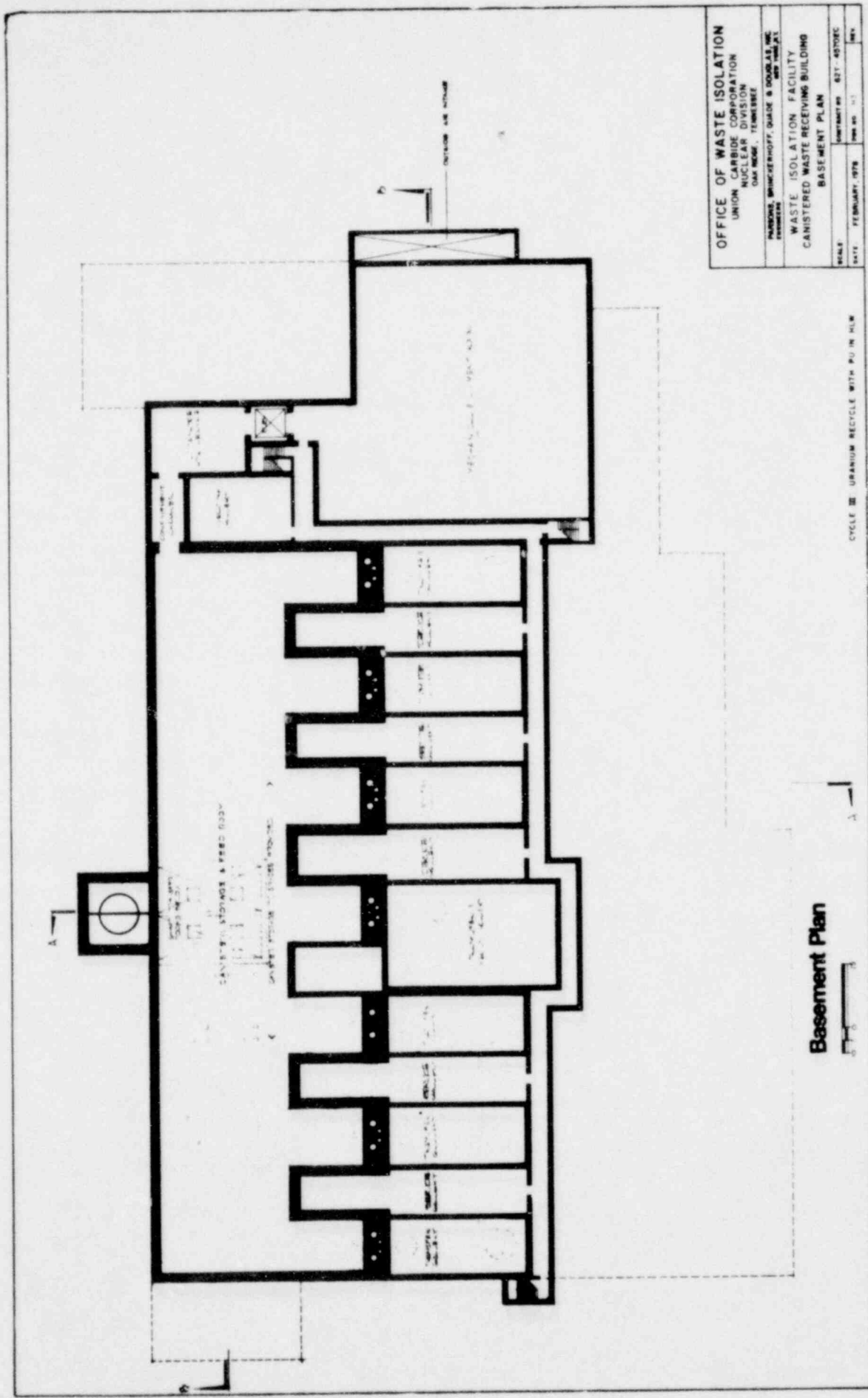
CYCLE II THROUGHWAY FUEL CYCLE



OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 OAK RIDGE, TENNESSEE
 DRAWING: BRUNNENHOFF, GILADE & SOBELMAN, INC.
 WASTE ISOLATION FACILITY
 CANISTER WASTE RECEIVING BUILDING
 GROUND FLOOR PLAN
 SCALE: AS SHOWN
 DATE: FEBRUARY, 1978
 SHEET NO. 102
 OF 103

Ground Floor Plan

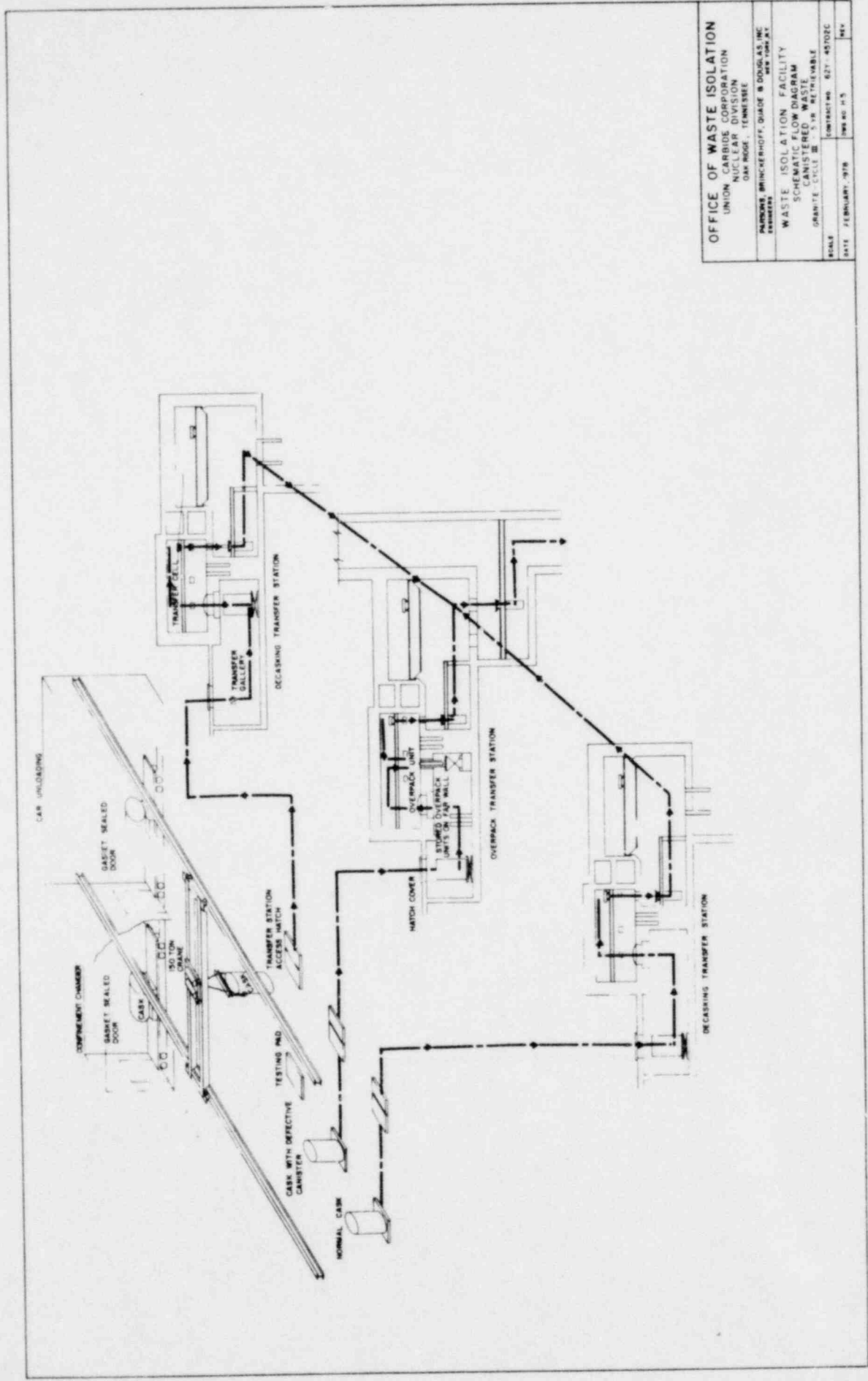
CYCLE III URANIUM RECYCLE WITH PU IN HLW



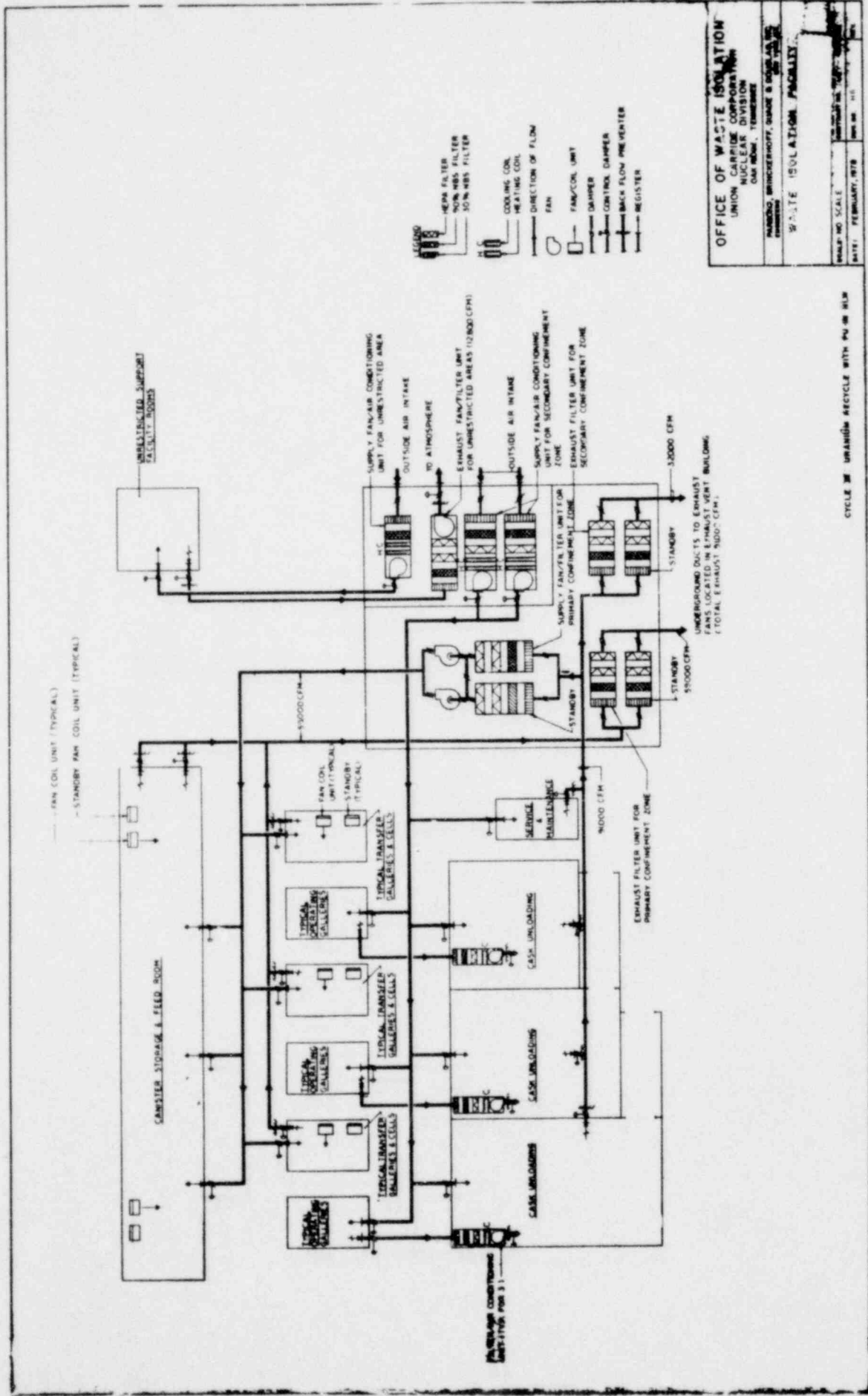
Basement Plan

CYCLE III URANIUM RECYCLE WITH PU IN HLW

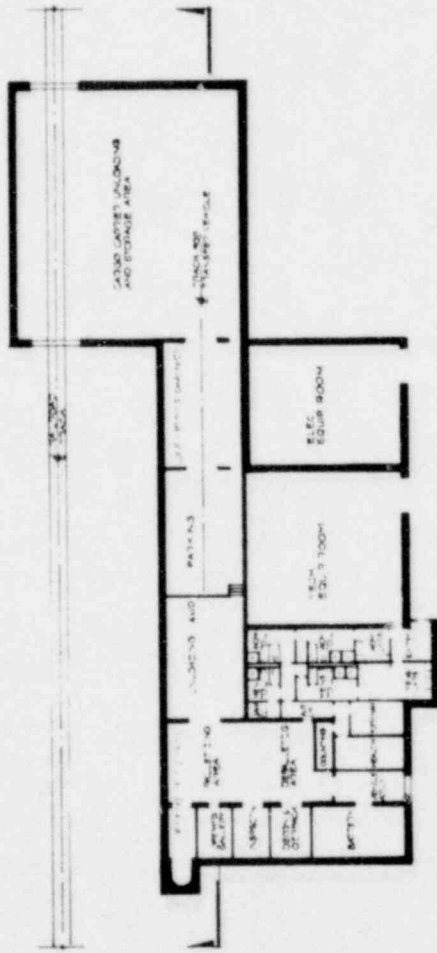
OFFICE OF WASTE ISOLATION UNION CARBIDE CORPORATION NUCLEAR DIVISION DAYTON, OHIO 45424	
PARSONS BRINCKERHOFF, QUADE & DOUGLAS, INC. ENGINEERS	
WASTE ISOLATION FACILITY CANISTERED WASTE RECEIVING BUILDING BASEMENT PLAN	
SCALE:	CONTRACT NO. 621-40712C
DATE: FEBRUARY, 1978	ISSUE NO. 1
	REV. 1



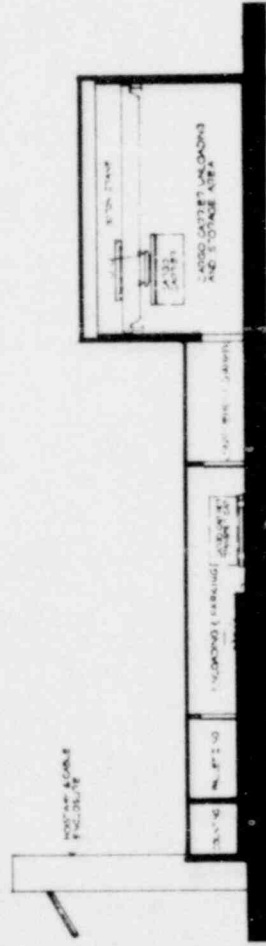
OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 OAK RIDGE, TENNESSEE
 ENGINEERS
 PATRICKS, BRINCHERHOFF, DIAZ & DOUGLAS, INC.
 NEW YORK, NY
WASTE ISOLATION FACILITY
SCHEMATIC FLOW DIAGRAM
CANISTERED WASTE
GRANITE CYCLE III - 5 IN. RETRIEVABLE
 SCALE: CONTRACT NO. 627-45702C
 DATE: FEBRUARY, 1978 1000 80 11.5 1412



CYCLE 3B URANIUM RECYCLE WITH PU OR HCL



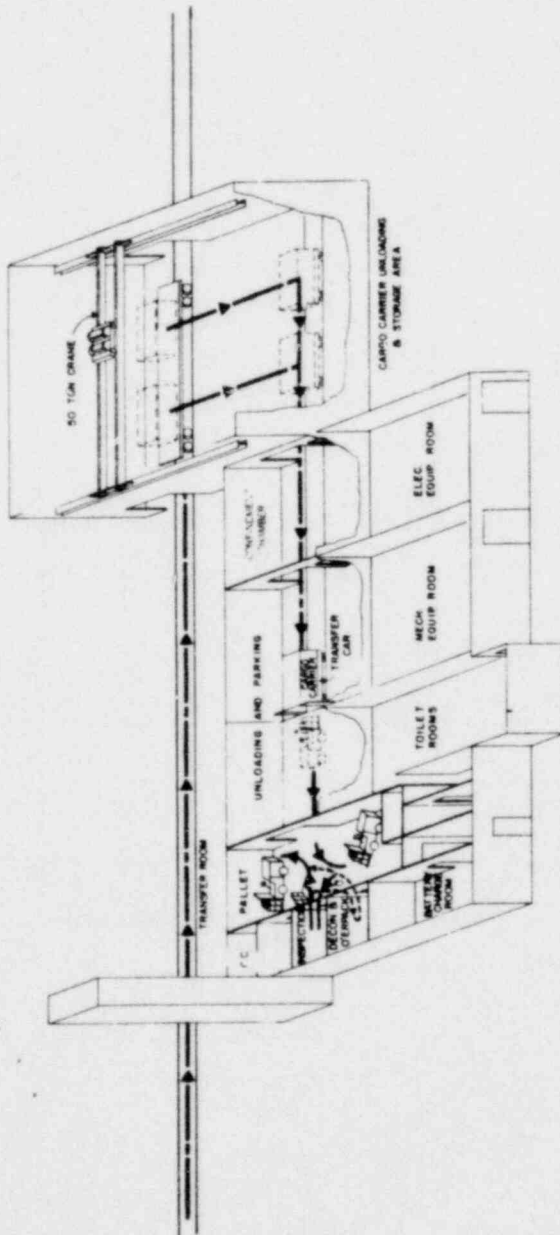
Ground Floor Plan



Section

OFFICE OF WASTE ISOLATION	
UNION CARBIDE CORPORATION	
NUCLEAR DIVISION	
OAK RIDGE, TENNESSEE	
PREPARED BY: HARRISON BRINCKERHOFF, DAVID B. DONALDSON, INC.	
DATE: FEBRUARY, 1978	
PROJECT: WASTE ISOLATION FACILITY	
DRAWING: LOW LEVEL WASTE RECEIVING BUILDING	
SECTION: GROUND FLOOR PLAN AND SECTION	
SCALE: 1/4" = 1'-0" (VERTICAL), 1/8" = 1'-0" (HORIZONTAL)	
CONTRACT NO. 671-45702C	
SHEET NO. 11	

CYCLE III: URANIUM RECYCLE WITH PU IN HLW

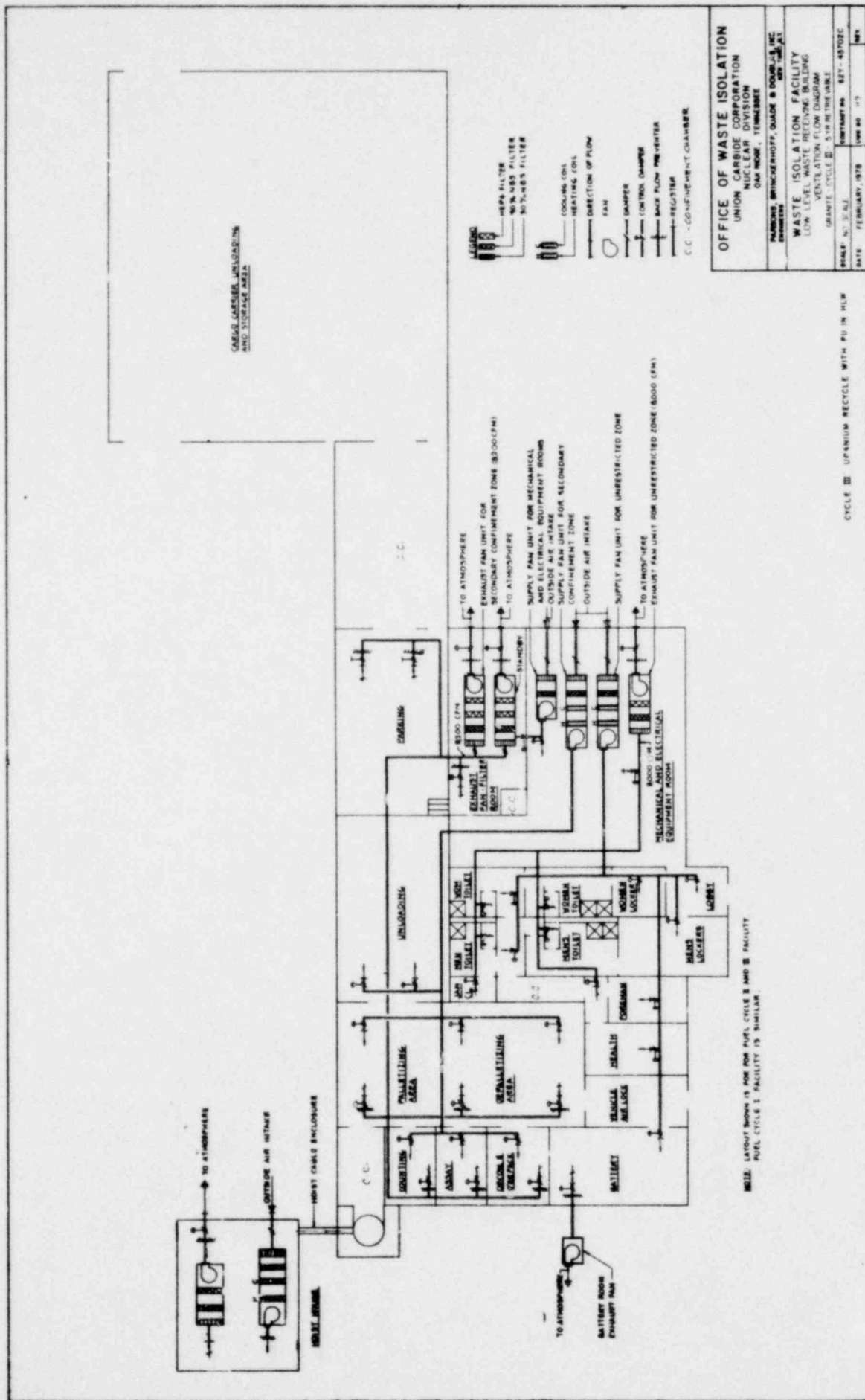


OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 DAYTON, OHIO 45424

WASTE ISOLATION FACILITY
 SCHEMATIC FLOW DIAGRAM
 LOW LEVEL WASTE (LLW) AND TRASH
 CYCLE III - URANIUM RECYCLE WITHIN PPA IN WASTE

DRAWING NO. 100-100000-001
 SHEET NO. 100-100000-001-01
 DATE: 10/1/88

CYCLE III - URANIUM RECYCLE WITHIN PPA IN WASTE



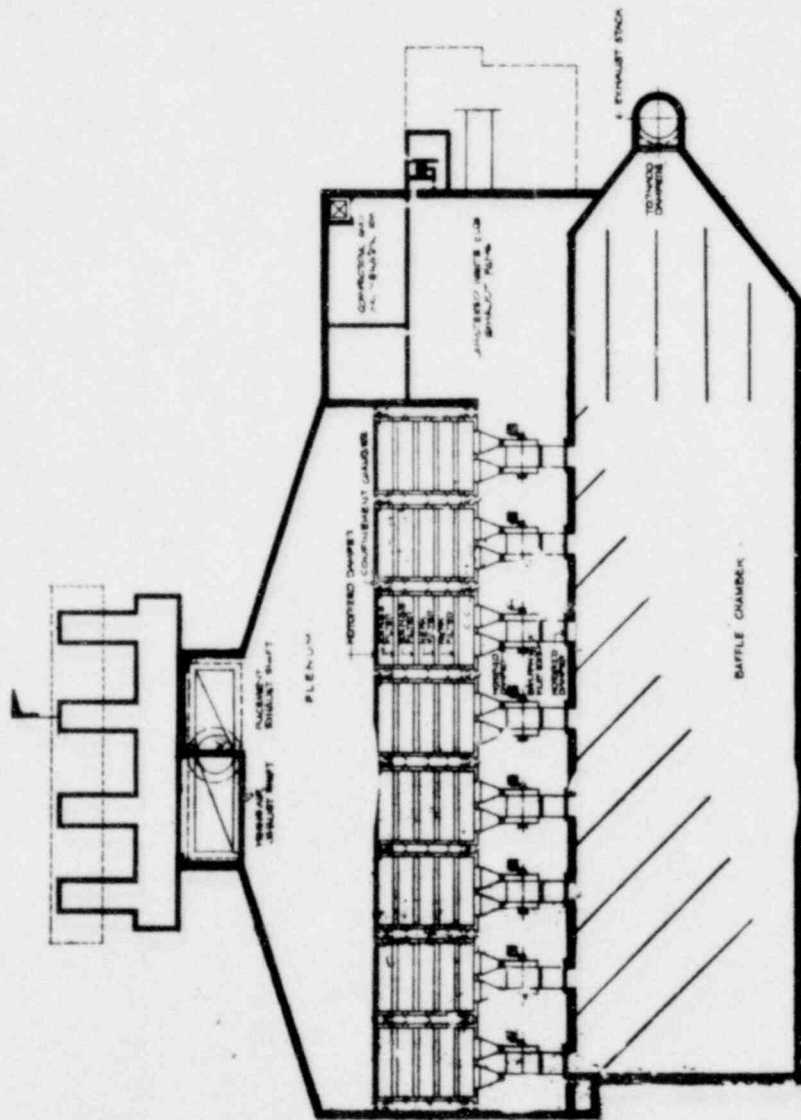
OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 OAK RIDGE, TENNESSEE

WASTE ISOLATION FACILITY
 LOW LEVEL WASTE RETAINING BUILDING
 VENTILATION FLOW DIAGRAM
 CYCLE III - SUPPLEMENTAL

DATE: FEBRUARY, 1978
 DRAWING NO.: 817-40702C
 SHEET NO.: 179

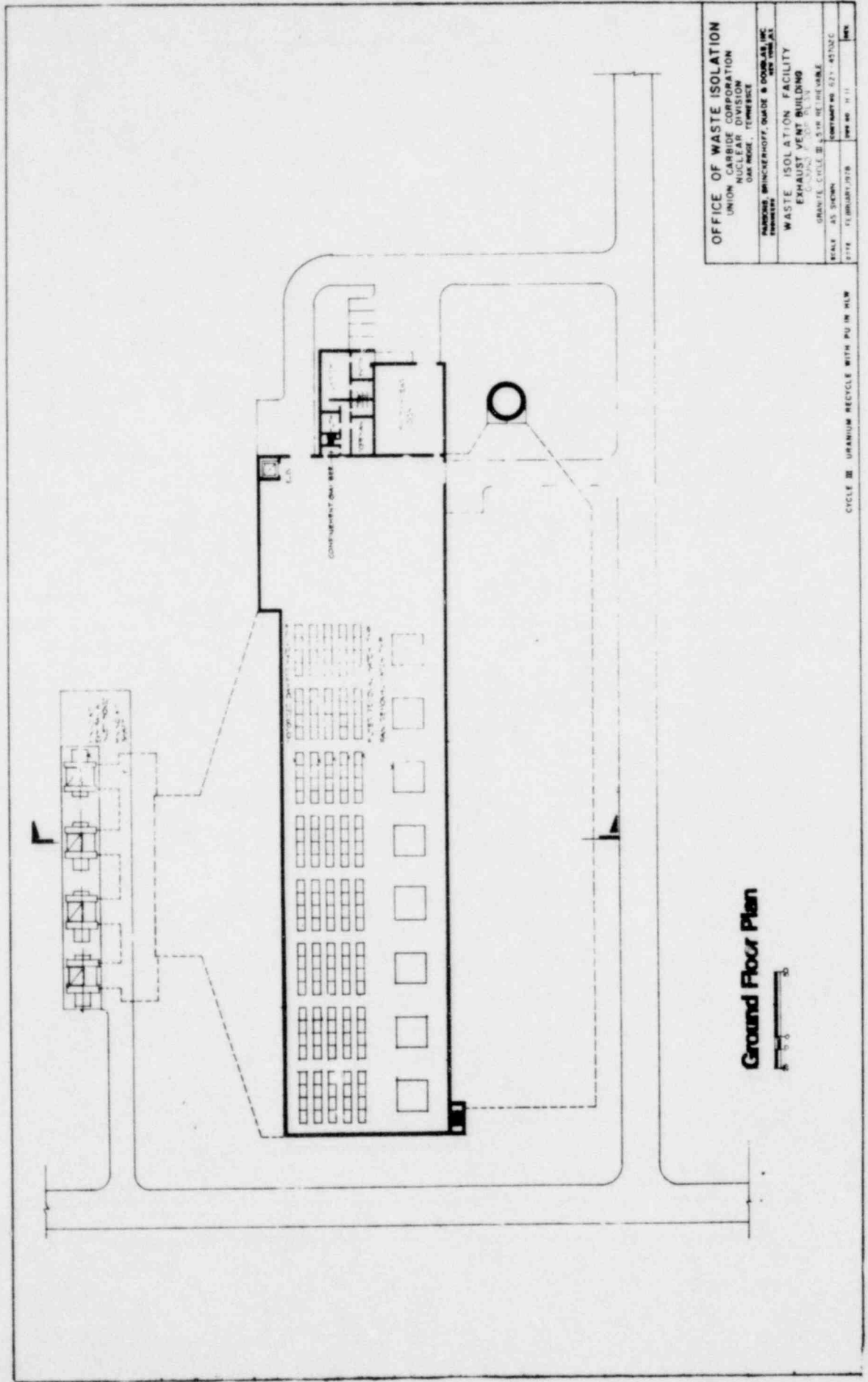
NOTE: LAYOUT SHOWN IS FOR FUEL CYCLE I AND II FACILITY
 FUEL CYCLE I FACILITY IS SIMILAR.

CYCLE III URANIUM RECYCLE WITH PU IN HLW



OFFICE OF WASTE ISOLATION UNION CARBIDE CORPORATION NUCLEAR DIVISION DAYTON, OHIO 45424	
WASTE ISOLATION FACILITY EXHAUST VENT BUILDING GRANITE CYCLE III, 514 RT. 100 DAYTON, OHIO 45424	
SCALE: AS SHOWN	DATE: FEBRUARY 1978
DESIGNED BY: [REDACTED]	DRAWN BY: [REDACTED]
CHECKED BY: [REDACTED]	DATE: [REDACTED]

CYCLE III - URANIUM RECYCLE WITH PU IN HLW



OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 OAK RIDGE, TENNESSEE

PARSONS BRINCKERHOFF, GAUGE & DOUGLAS, INC.
 ENGINEERS
 OAK RIDGE, TENNESSEE

WASTE ISOLATION FACILITY
 EXHAUST VENT BUILDING
 CYCLE III, UNIT 2

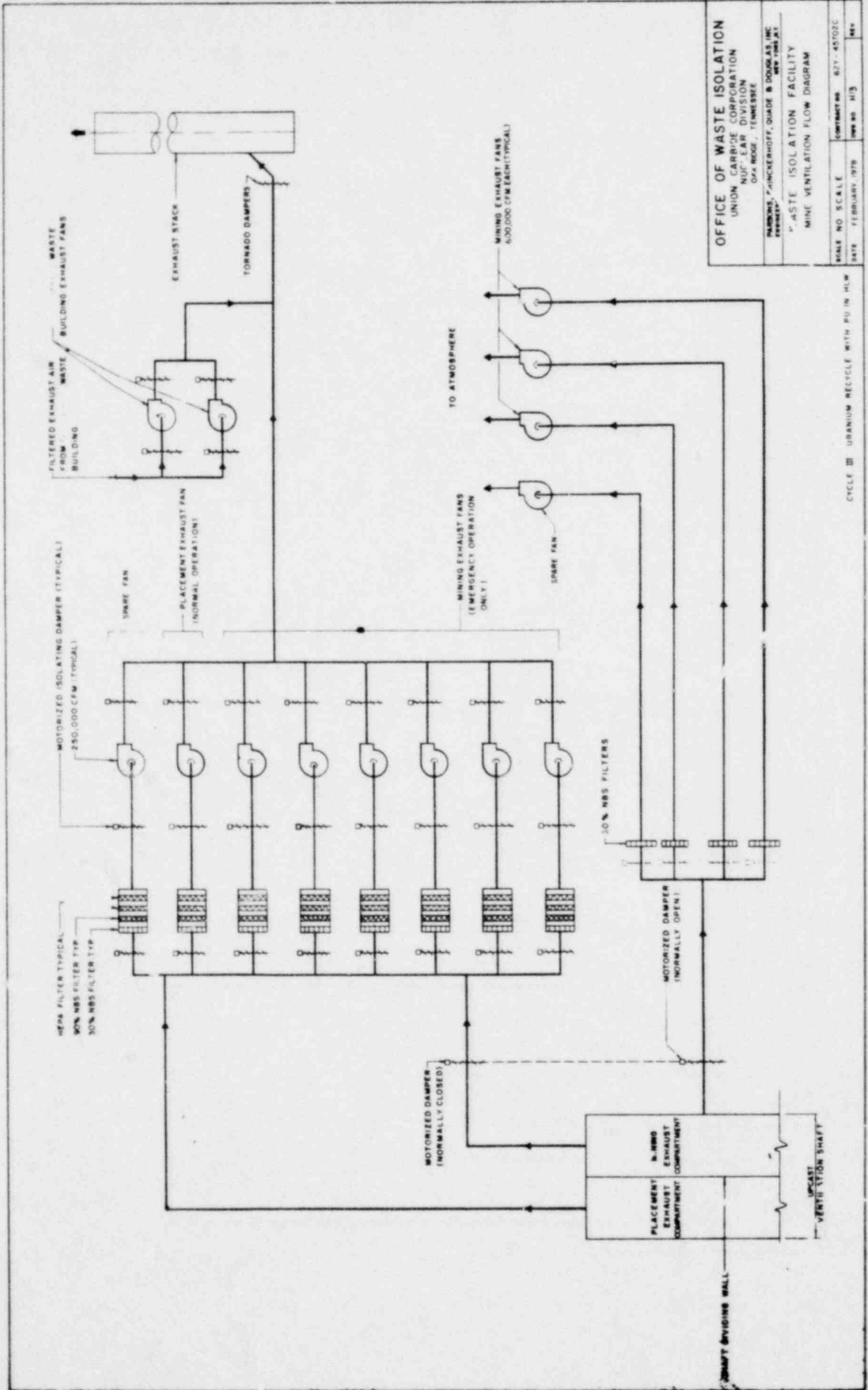
GRANTS, CYCLE III, UNIT 2, SHEET NO. 671-45120C
 SCALE AS SHOWN
 DATE: FEBRUARY 1978

Ground Floor Plan



CYCLE III URANIUM RECYCLE WITH PU IN HLW

REV



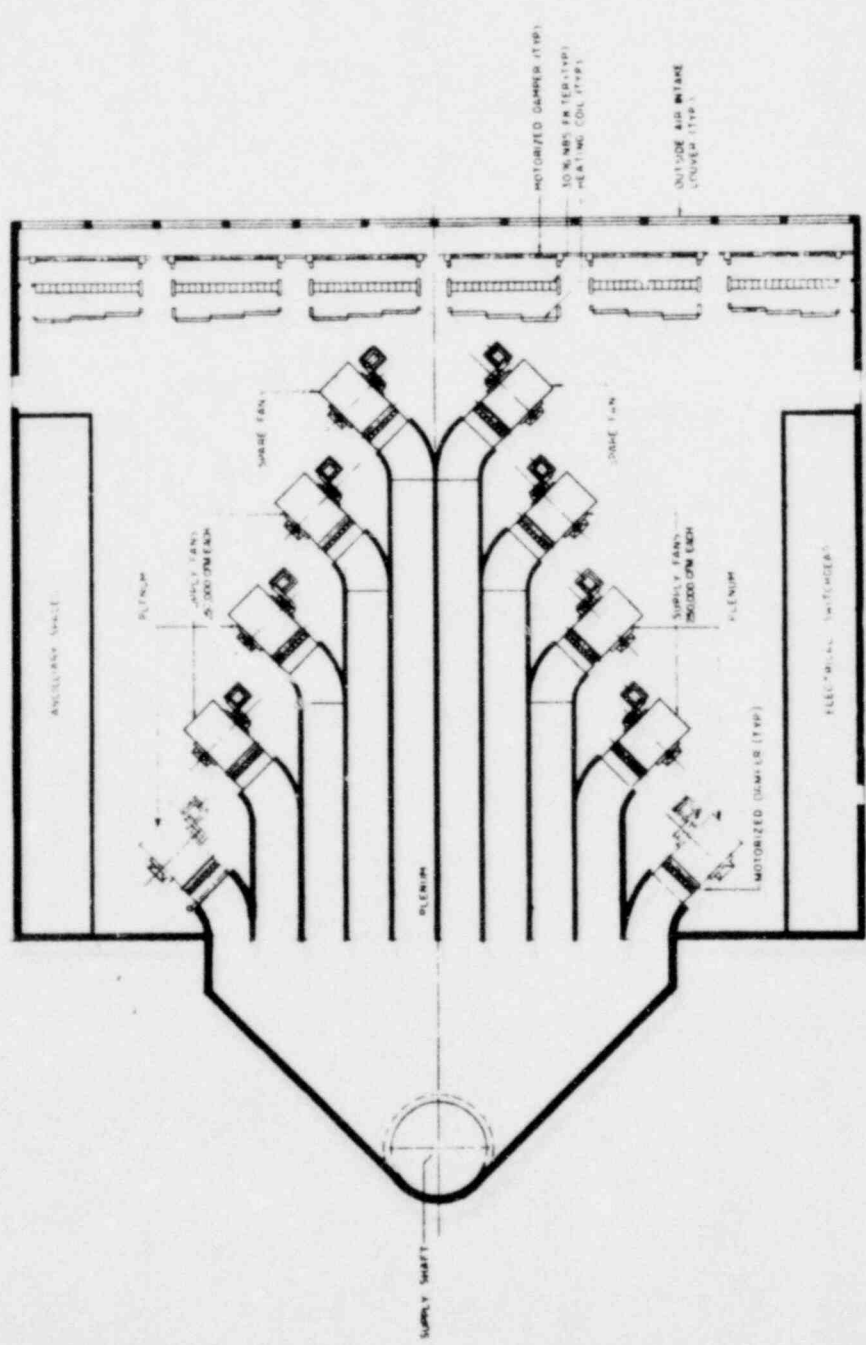
OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 OPA ROQUE, TENNESSEE
 DRAWING BY: HINCHERHOFF, QUADE & DOUGLAS, INC.
 DATE: FEBRUARY 1978
 SHEET NO. 113
 CONTRACT NO. 67-45702C
 SCALE: AS SHOWN
 PROJECT: WASTE ISOLATION FACILITY
 TITLE: MINE VENTILATION FLOW DIAGRAM

CYCLE III URANIUM RECYCLE WITH PU IN HLW

OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 DAY ROOM, TENNESSEE

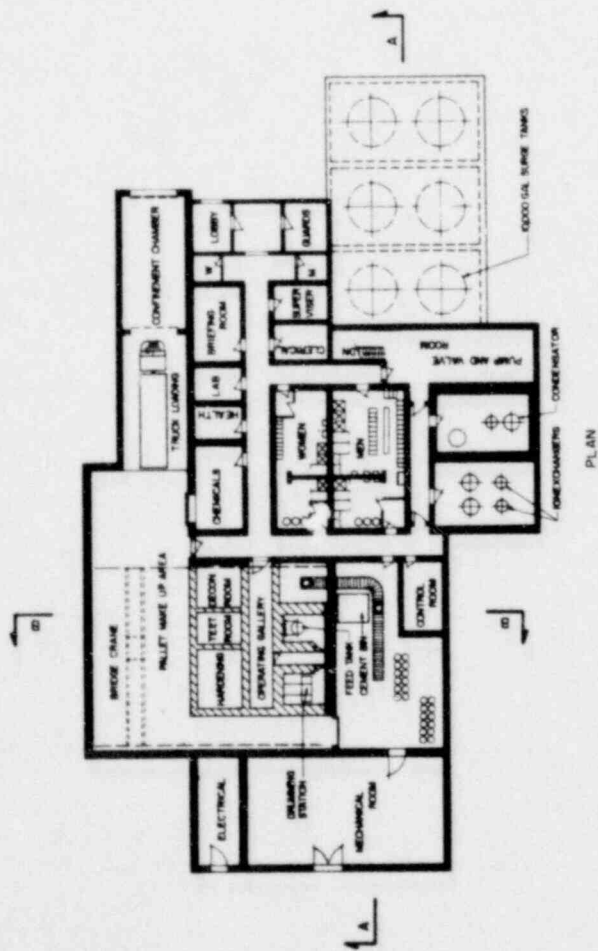
WASTE ISOLATION FACILITY
 SUPPLY VENTILATION BUILDING

PROJECT NO. 12-11-107
 DRAWING NO. 107-107
 DATE: FEBRUARY, 1978



SUPPLY PLAN

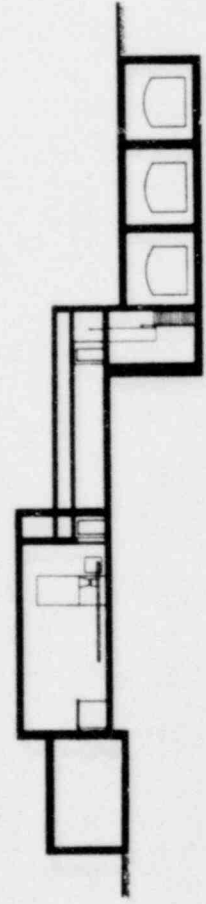
CYCLE III URANIUM RECYCLE WITH PU IN HLW



PLAN



SECTION B-B

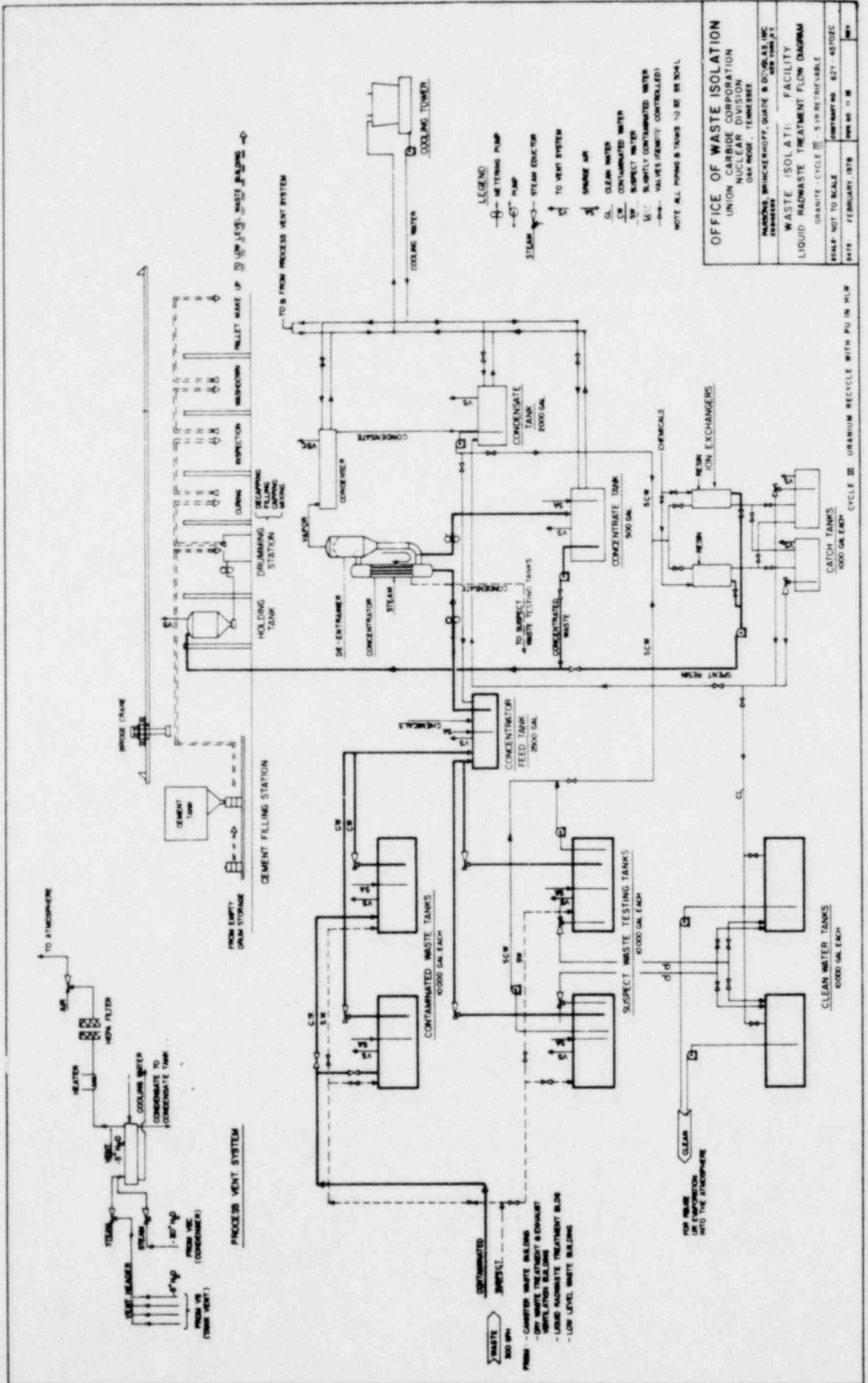


SECTION A-A



OFFICE OF WASTE ISOLATION	
UNION CARBIDE CORPORATION	
NUCLEAR DIVISION	
OAK RIDGE, TENNESSEE	
PARSONS, BRINCKERHOFF, QUAIN & DOUGLAS, INC.	
ENGINEERS	
WASTE ISOLATION FACILITY	
LIQUID RADWASTE TREATMENT BUILDING	
ORNL-TR-518 (REVISED)	
SCALE: 1/4" = 1'-0"	CONTRACT NO. 857-0702C
DATE: FEBRUARY, 1978	DWG. NO. 115
	115

CYCLE III: URANIUM RECYCLE WITH PU IN HLW



LEGEND
 - METERING PUMP
 - PUMP
 - STEAM
 - TO VENT SYSTEM
 - SHUT OFF VALVE
 - CLEAN WATER
 - CONTAMINATED WATER
 - SUSPECT WATER
 - SLURRY CONTAMINATED WATER
 - VALVES (REMOTE CONTROLLED)

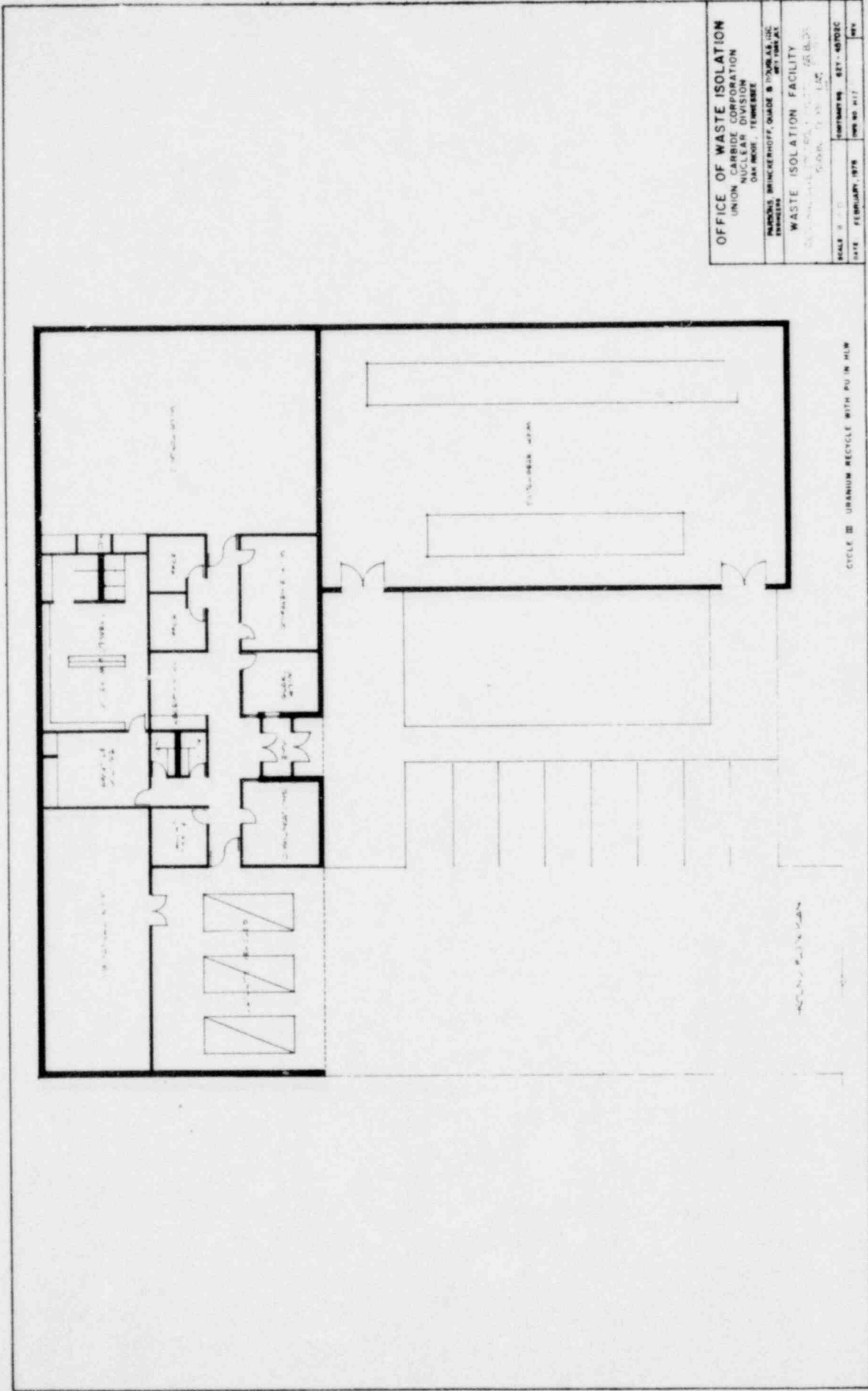
NOTE ALL PIPING & TANKS TO BE 36 IN DIA.

OFFICE OF WASTE ISOLATION	
UNION CARBIDE CORPORATION NUCLEAR DIVISION OAK RIDGE, TENNESSEE	
WASTE ISOLATION FACILITY LIQUID RADWASTE TREATMENT FLOW DIAGRAM	
SCALE - NOT TO SCALE	DATE - FEBRUARY 1978
GRANITE - CYCLE III - 318 RETRIEVABLE	PREPARED BY - R27-45702C
REVISIONS: BRINCKERHOFF, QUATE & DOUGLAS, INC. DESIGNERS	APP. NO. 11-11

CYCLE III - URANIUM RECYCLE WITH PU IN HLW
 1000 GAL EACH

CLEAN WATER TANKS
 10000 GAL EACH

NOTE:
 - WASTE - GAMMA WASTE BUILDING
 - CONTAMINATED WASTE TREATMENT BUILDING
 - SUSPECT WASTE TREATMENT BUILDING
 - LOW LEVEL WASTE TREATMENT BUILDING



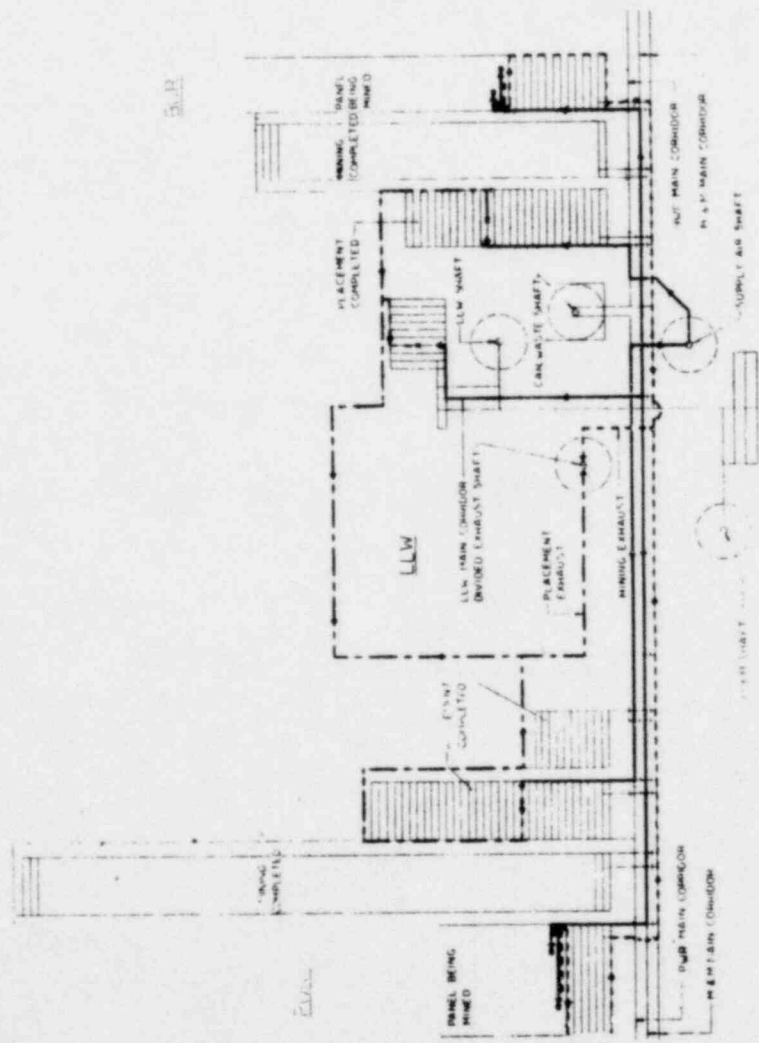
OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 OAK RIDGE, TENNESSEE

MARKING, BRINCKERHOFF, QUADE & POORE, INC.
 ENGINEERS
 5000 WOODLAND DRIVE, OAK RIDGE, TENNESSEE 37830

WASTE ISOLATION FACILITY
 CYCLONE SEPARATOR

SCALE: 1/4" = 1'-0"
 DATE: FEBRUARY, 1978
 SHEET NO. 45705C
 OF 45705

CYCLE III URANIUM RECYCLE WITH PU IN HLW



LEGEND

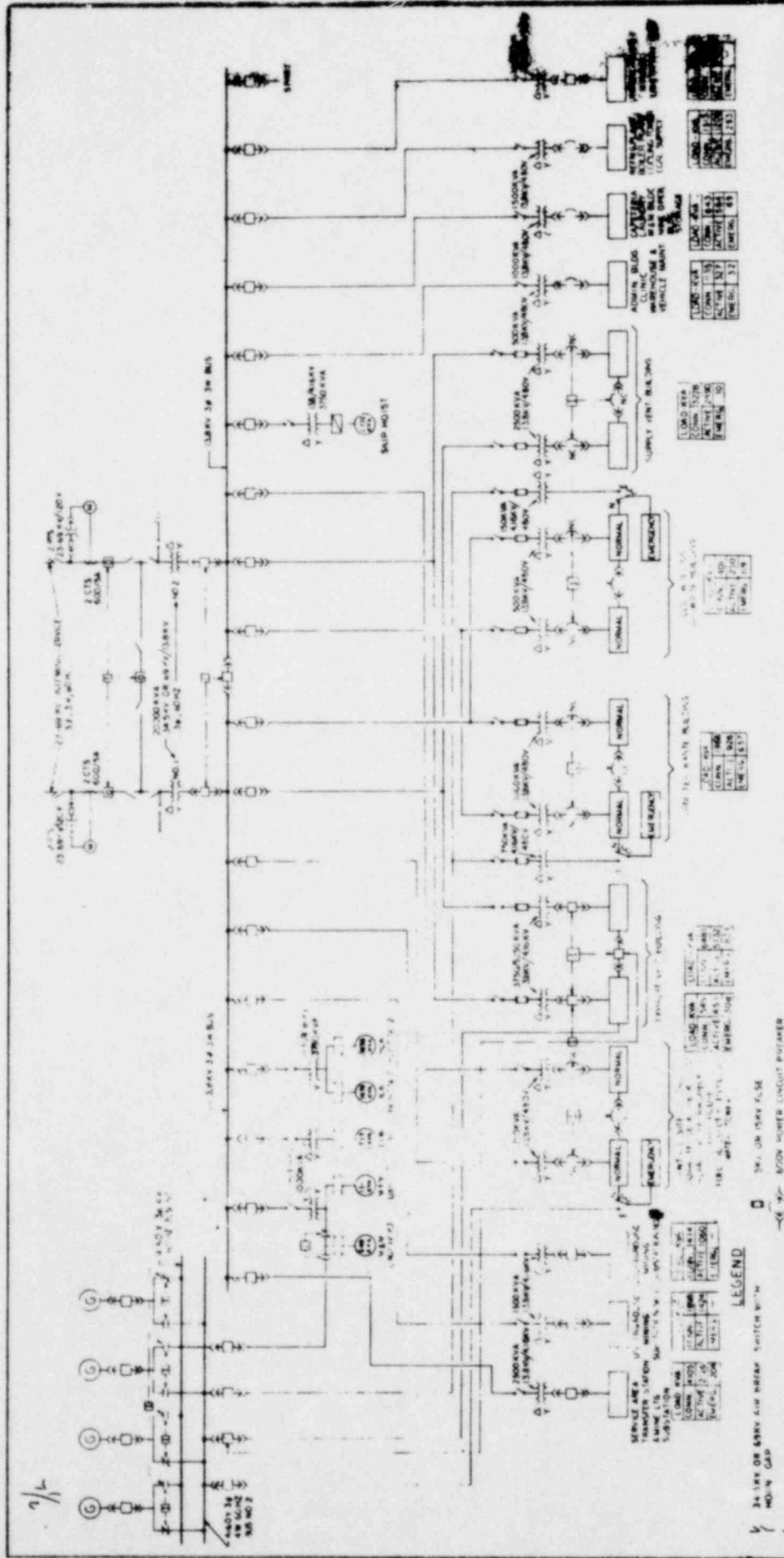
- PLACEMENT EXHAUST AIR
- - - - MINING EXHAUST AIR
- PLACEMENT & MINING SUPPLY AIR
- PLACEMENT IN PROGRESS
- MINING IN PROGRESS
- DOORS OR CORRIDOR SEALED

OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 ONE WILSON TERRACE
 PITTSBURGH, PENNSYLVANIA 15203-0001

WASTE ISOLATION FACILITY

GRABER, T. J., PROJECT MANAGER
 DATE: FEBRUARY, 1980

PARTIAL PLAN
MINING AND PLACEMENT VENTILATION
 FOR CYCLE III URANIUM RECYCLE WITH PU IN NLR



OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 ONE NORTON, TENNESSEE
 WASTE ISOLATION FACILITY
 ELECTRICAL ONE LINE DIAGRAM
 GRANITE - CYCLE B - 5 YEAR
 SHEET NO. 100
 DATE: February, 1978

TOTAL FACILITY LOAD

LOAD KVA	1000
LOAD KW	300
ACTIVE	300
EMER.	300

TOTAL VENT BUILDING

LOAD KVA	1000
LOAD KW	300
ACTIVE	300
EMER.	300

ADMIN BLDG

LOAD KVA	1000
LOAD KW	300
ACTIVE	300
EMER.	300

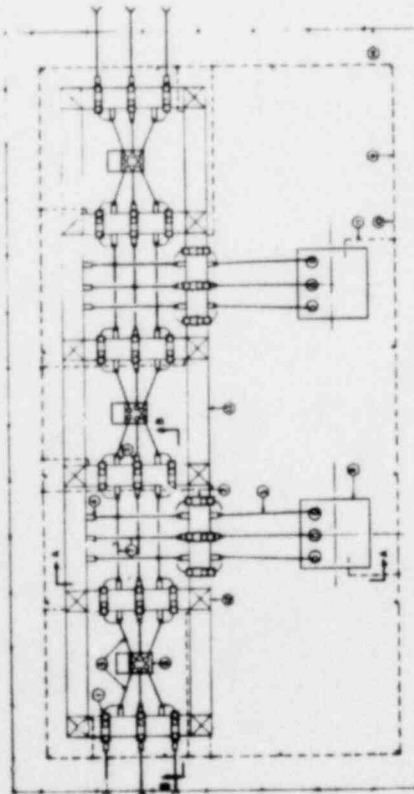
VEHICLE MOUNT

LOAD KVA	1000
LOAD KW	300
ACTIVE	300
EMER.	300

LEGEND

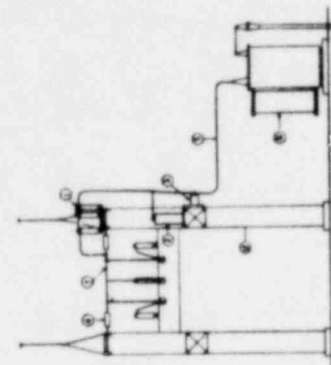
- 34.5KV OR 69KV AIR BREAK SWITCH WITH NO-N GAP
- 34.5KV OR 69KV OUTDOOR ISOLATING SWITCH
- 24.5KV OR 69KV OUTDOOR OIL CIRCUIT BREAKER
- LIGHTNING ARRESTER
- TRANSFORMER
- 5KV OR 15KV POWER CIRCUIT BREAKER INDOOR
- 5KV OR 15KV DISCONNECT SWITCH INDOOR
- SW. OR 15KV FUSE
- 600V POWER CIRCUIT BREAKER
- AUTOMATIC TRANSFORMER SWITCH
- MOTOR
- GENERATOR
- CONTROL
- ELECTRICAL INTERLOCK
- N.C. NORMALLY CLOSED
- N.O. NORMALLY OPEN
- POTENTIAL TRANSFORMER

CYCLE B - URANIUM RECYCLE WITH PU IN HW

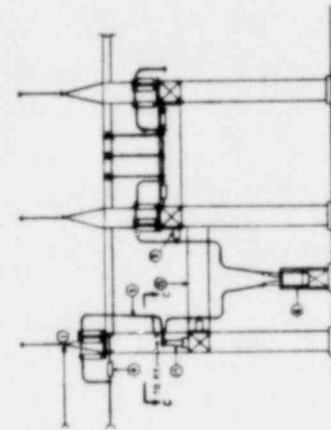


SUB-STATION PLAN

ITEM	DESCRIPTION
1	1/2" DIA. WATER MAIN WITH 1/2" DIA. VALVE
2	1/2" DIA. WATER MAIN WITH 1/2" DIA. VALVE
3	1/2" DIA. WATER MAIN WITH 1/2" DIA. VALVE
4	1/2" DIA. WATER MAIN WITH 1/2" DIA. VALVE
5	1/2" DIA. WATER MAIN WITH 1/2" DIA. VALVE
6	1/2" DIA. WATER MAIN WITH 1/2" DIA. VALVE
7	1/2" DIA. WATER MAIN WITH 1/2" DIA. VALVE
8	1/2" DIA. WATER MAIN WITH 1/2" DIA. VALVE
9	1/2" DIA. WATER MAIN WITH 1/2" DIA. VALVE
10	1/2" DIA. WATER MAIN WITH 1/2" DIA. VALVE
11	1/2" DIA. WATER MAIN WITH 1/2" DIA. VALVE
12	1/2" DIA. WATER MAIN WITH 1/2" DIA. VALVE
13	1/2" DIA. WATER MAIN WITH 1/2" DIA. VALVE
14	1/2" DIA. WATER MAIN WITH 1/2" DIA. VALVE
15	1/2" DIA. WATER MAIN WITH 1/2" DIA. VALVE
16	1/2" DIA. WATER MAIN WITH 1/2" DIA. VALVE



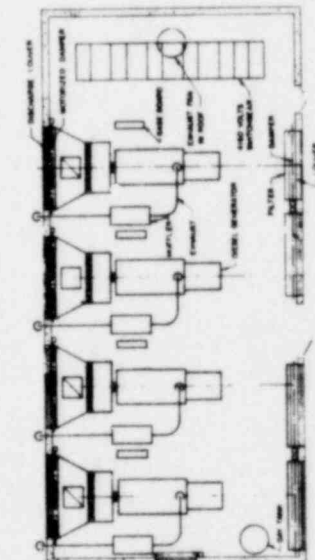
SECTION A-A



SECTION B-B



SECTION C-C

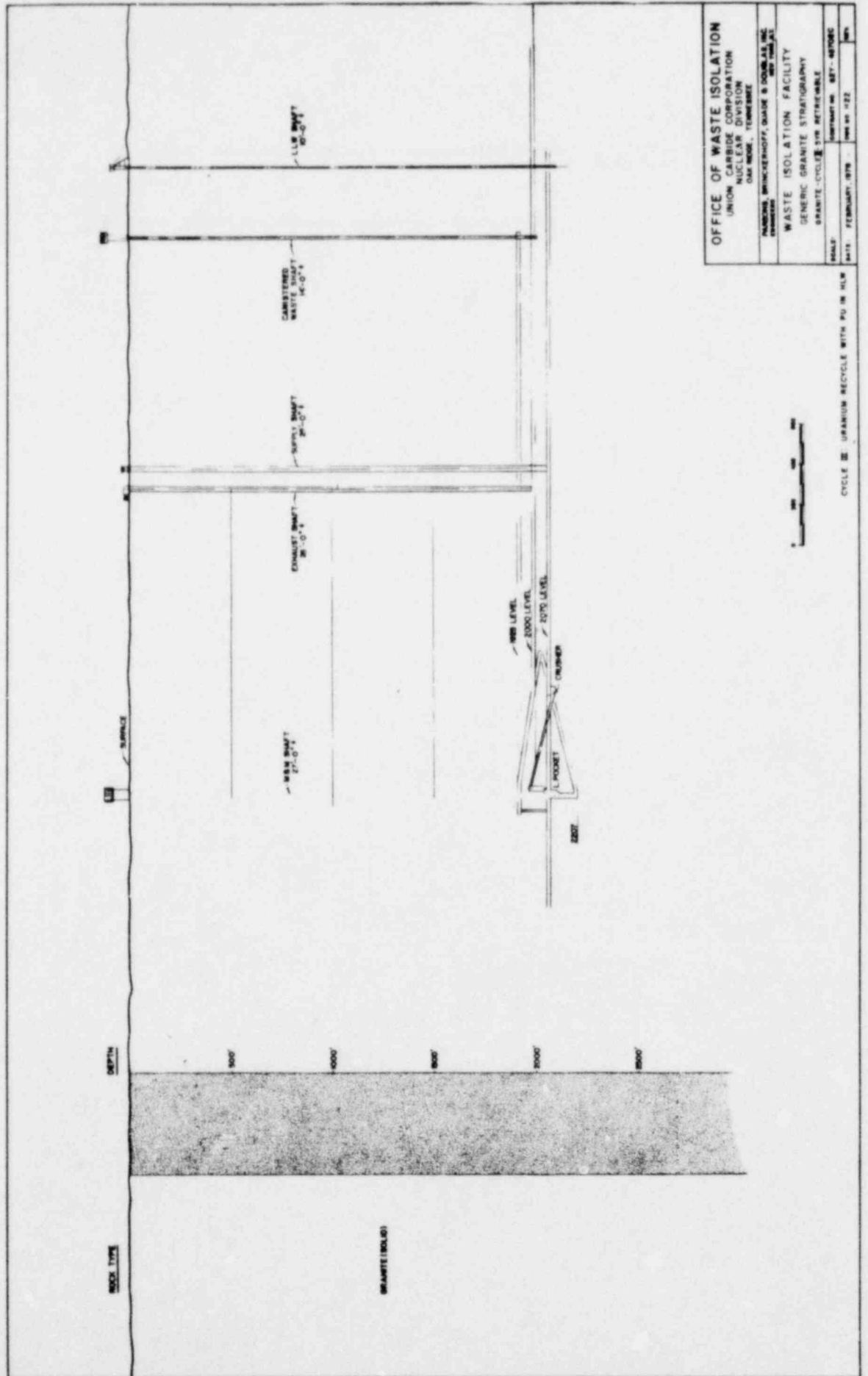


STANDBY GENERATOR

OFFICE OF WASTE ISOLATION
 UNION NUCLEAR CORPORATION
 NUCLEAR DIVISION
 500 N. W. 10TH ST., MIAMI, FLORIDA 33136

WASTE ISOLATION FACILITY
 SUBSTATION
 AND STANDBY GENERATOR

DATE: FEBRUARY, 1978
 DRAWING NO. 827-45703C
 SHEET NO. 01

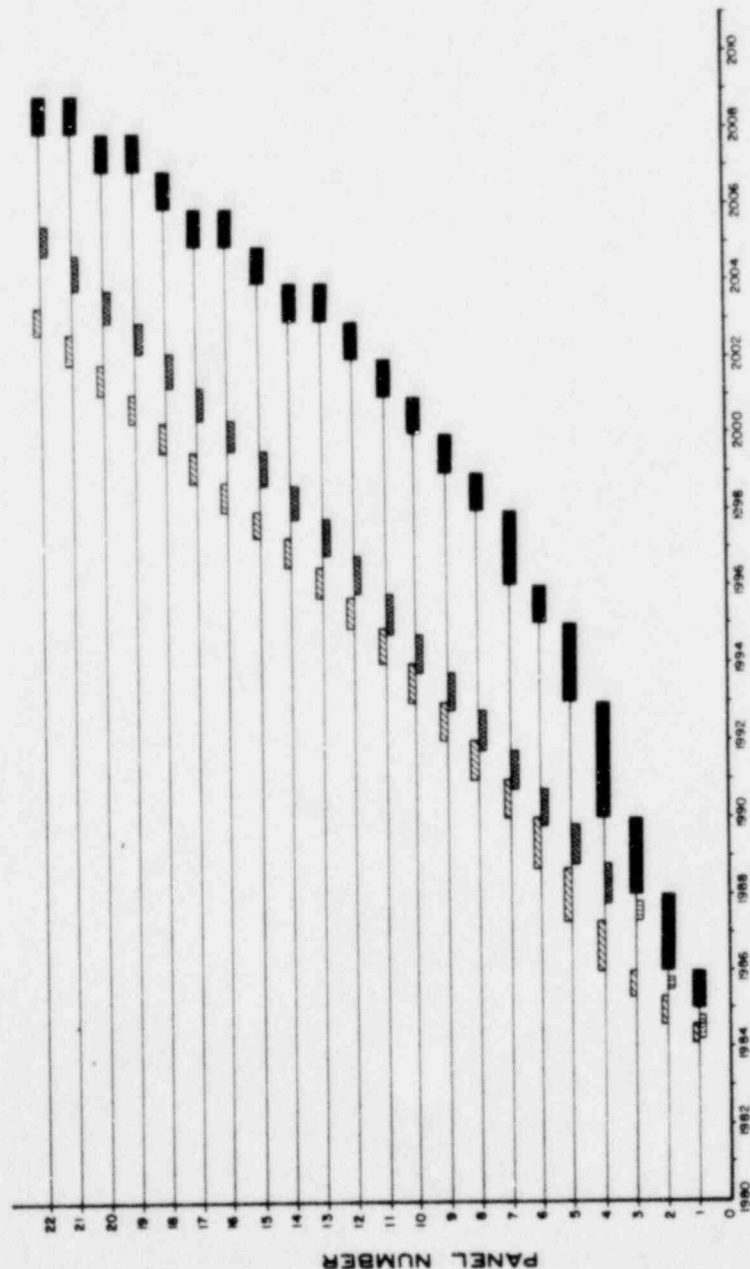


OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 ONE MOORE, TENNESSEE
 HANDBOOK, BRINCKERHOFF, GRADE 8 DOUBLE END
 WASTE ISOLATION FACILITY
 GENERIC GRANITE STRATIGRAPHY
 GRANITE CYCLE III RETRIEVABLE
 DRAWING NO. 827-457000
 DATE: FEBRUARY, 1978
 SHEET NO. 122



CYCLE III URANIUM RECYCLE WITH PU IN HLW

MINING AND PLACEMENT SCHEDULE GRANITE - CYCLE III - 5 YEARS RETRIEVABLE



LEGEND

- MINING [Diagonal lines]
- DRILLING & SLEEVE PLACEMENT [Dotted pattern]
- DRILLING [Dotted pattern]
- CANISTER PLACEMENT [Solid black bar]

YEAR
HLW

OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 ONE MOORE - TENNESSEE

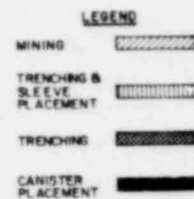
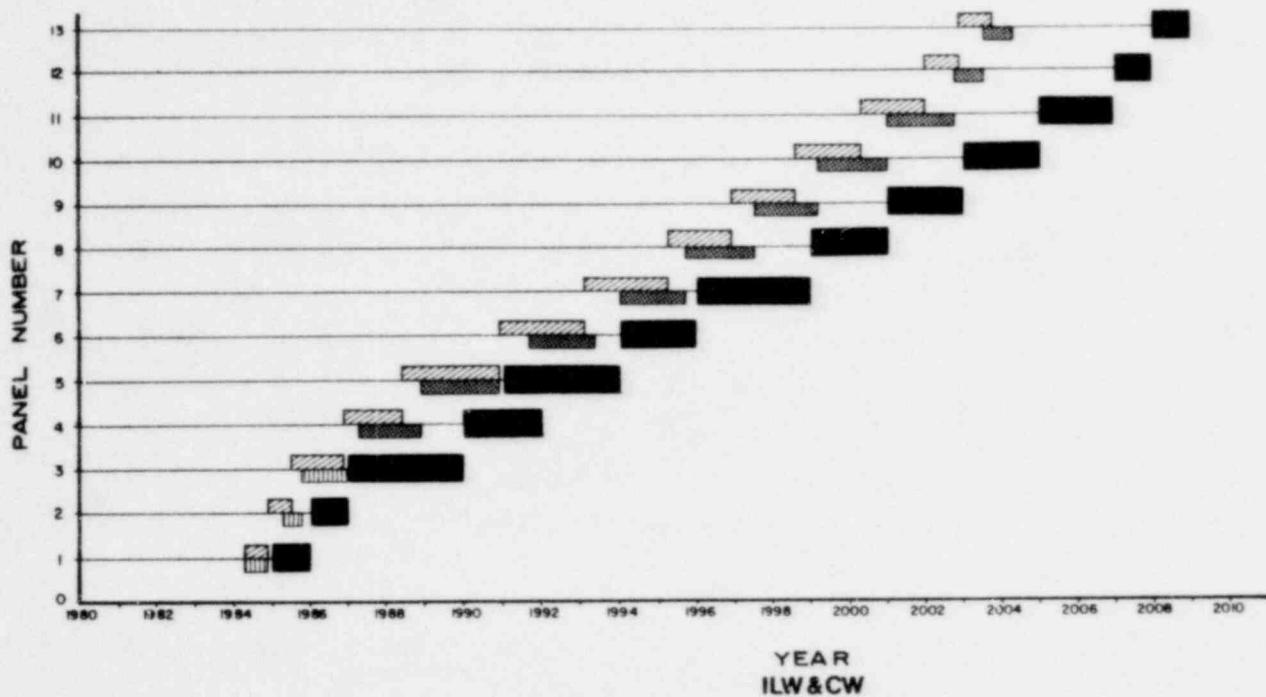
PARSONS, BRINCKERHOFF, QUAIN & DOUGLAS, INC.
 1000 JEFFERSON AVENUE
 PITTSBURGH, PA 15222

WASTE ISOLATION FACILITY
 HLW MINING AND PLACEMENT SCHEDULE
 GRANITE - CYCLE III - 5 YR RETRIEVABLE

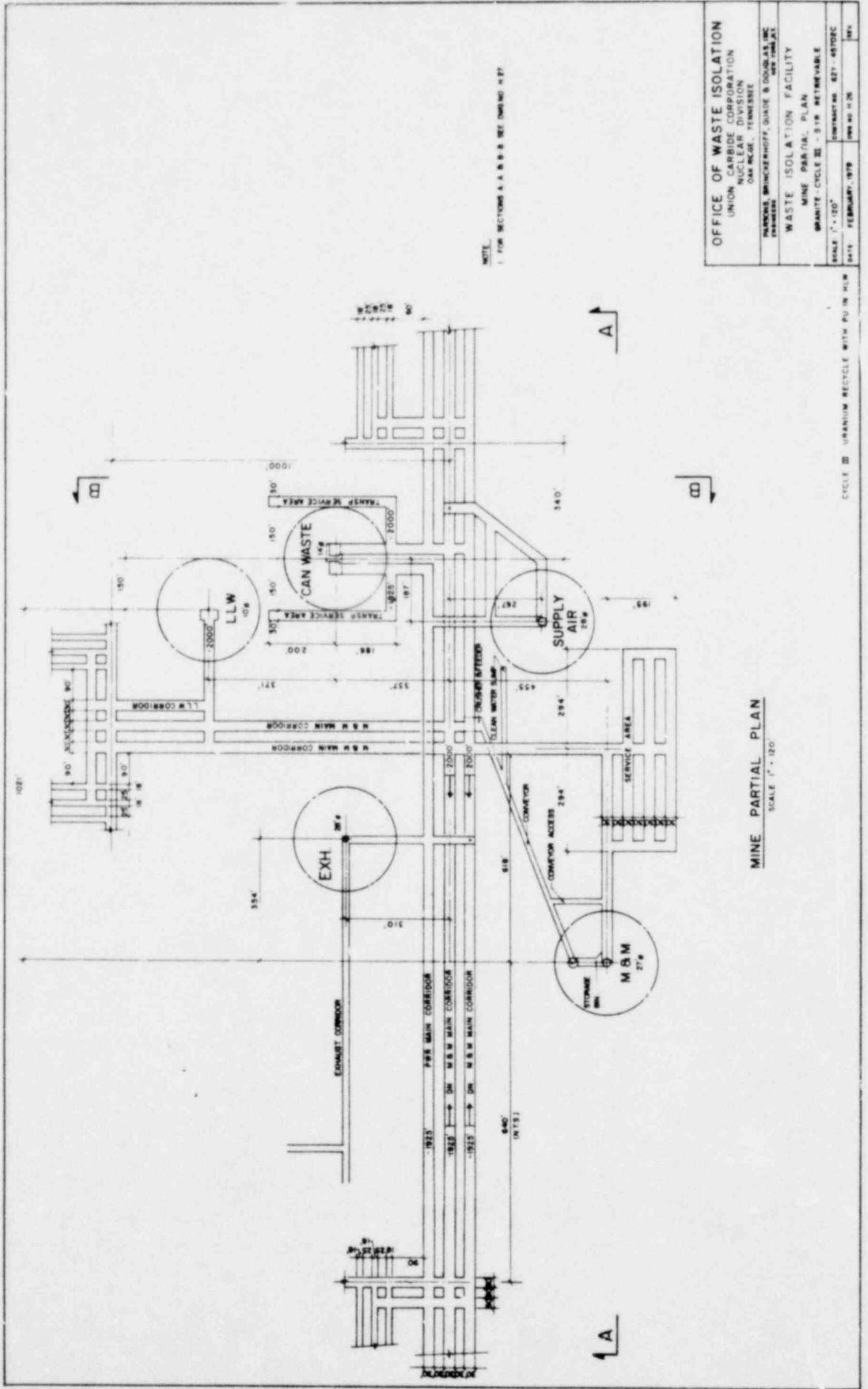
SCALE CONTRACT NO. 87Y-45702C
 DATE FEBRUARY, 1978 100-10-123 REV

MINING AND PLACEMENT SCHEDULE

GRANITE - CYCLE III - 5 YEARS RETRIEVABLE



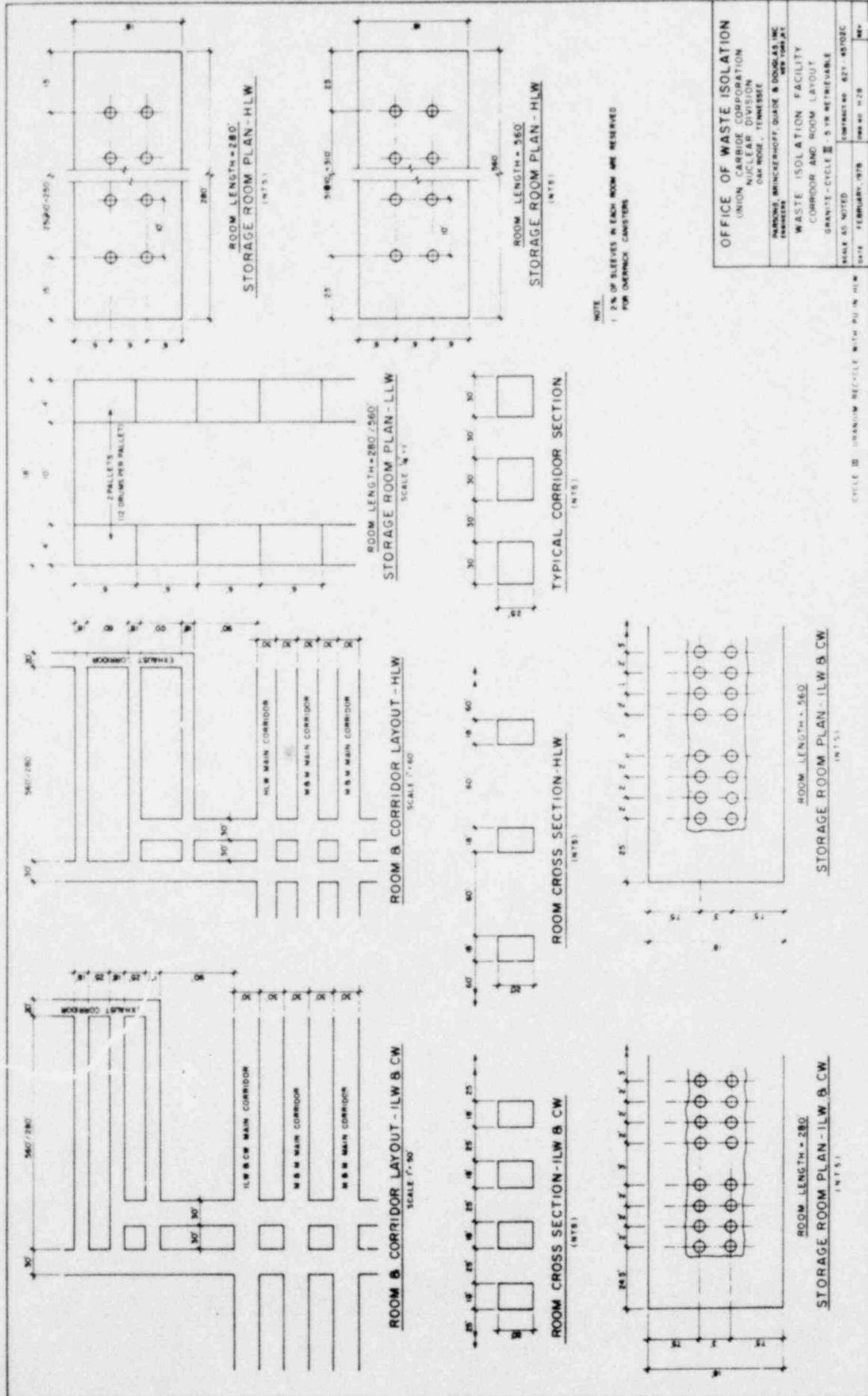
OFFICE OF WASTE ISOLATION		
UNION CARBIDE CORPORATION		
NUCLEAR DIVISION		
OAK RIDGE, TENNESSEE		
PARSONS, BRINCKERHOFF, QUIDE & DOUGLAS, INC.		
ENGINEERS		
WASTE ISOLATION FACILITY		
ILW&CW MINING AND PLACEMENT SCHEDULE		
GRANITE - CYCLE III - 5 YR RETRIEVABLE		
SCALE	CONTRACTING 82Y - 45702C	
DATE	FEBRUARY, 1978	DWG NO H 24 REV



OFFICE OF WASTE ISOLATION	
UNION CARBIDE CORPORATION NUCLEAR DIVISION OAK RIDGE, TENNESSEE	
DRAWING: BRINCKENHOFF, GURDE & DOUGLAS, INC. ENGINEERS	
WASTE ISOLATION FACILITY	
MINE P&M/ISL PLAN	
GRANITE CYCLE III - 3 1/4' RETRIEVABLE	
SCALE: 1" = 120'	CONTRACT NO. 827-48702C
DATE: FEBRUARY, 1979	DRW NO. W-26

MINE PARTIAL PLAN
SCALE 1" = 120'

CYCLE III URANIUM RECYCLE WITH PU IN HLW

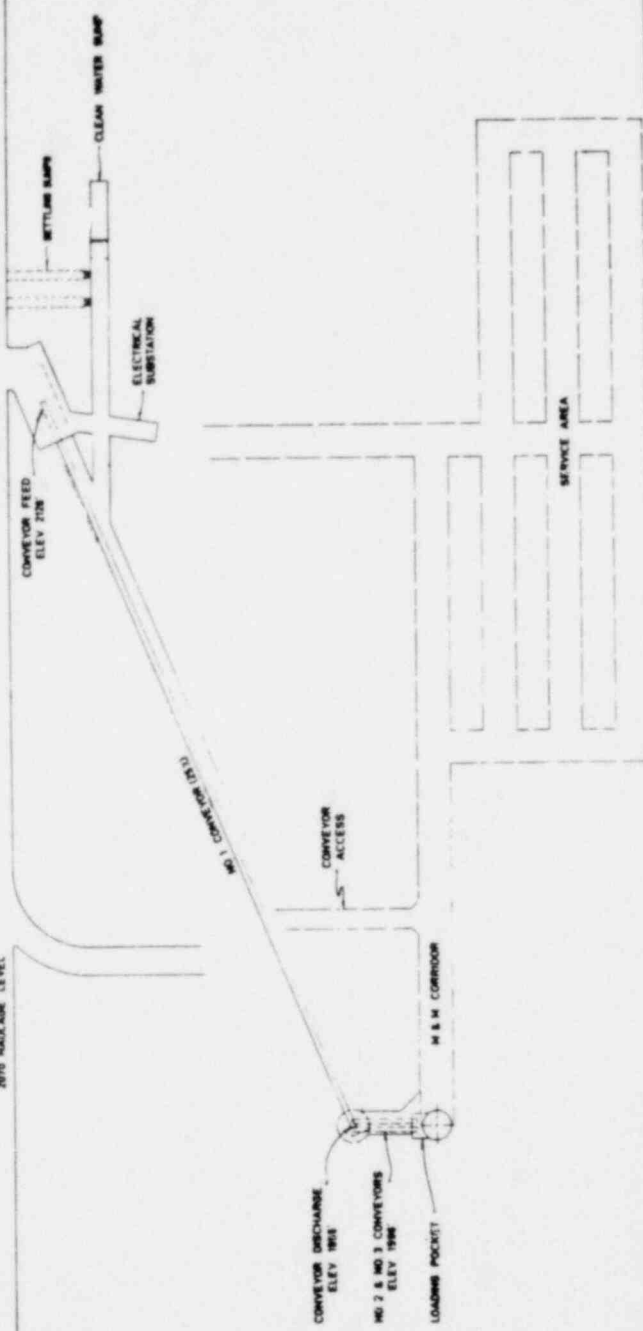


NOTE:
 1. 2" OF SLEEVES IN LENGTH ROOM ARE RESERVED FOR OVERPACK CONTAINERS

OFFICE OF WASTE ISOLATION	
UNION CARBIDE CORPORATION NUCLEAR DIVISION OAK RIDGE, TENNESSEE	
PROJECT: WASTE ISOLATION FACILITY CORRIDOR AND ROOM LAYOUT	
DRAWING: GRANITE-CYCLE II - 5.18 RETRIEVABLE	
SCALE AS NOTED	CONTRACT NO. 827-45702C
DATE: FEBRUARY, 1978	DWG NO. 428
	REV.

CYCLE II (GRANITE) RECYCLE WITH PU IN HLW

2075 HALLMARK LEVEL

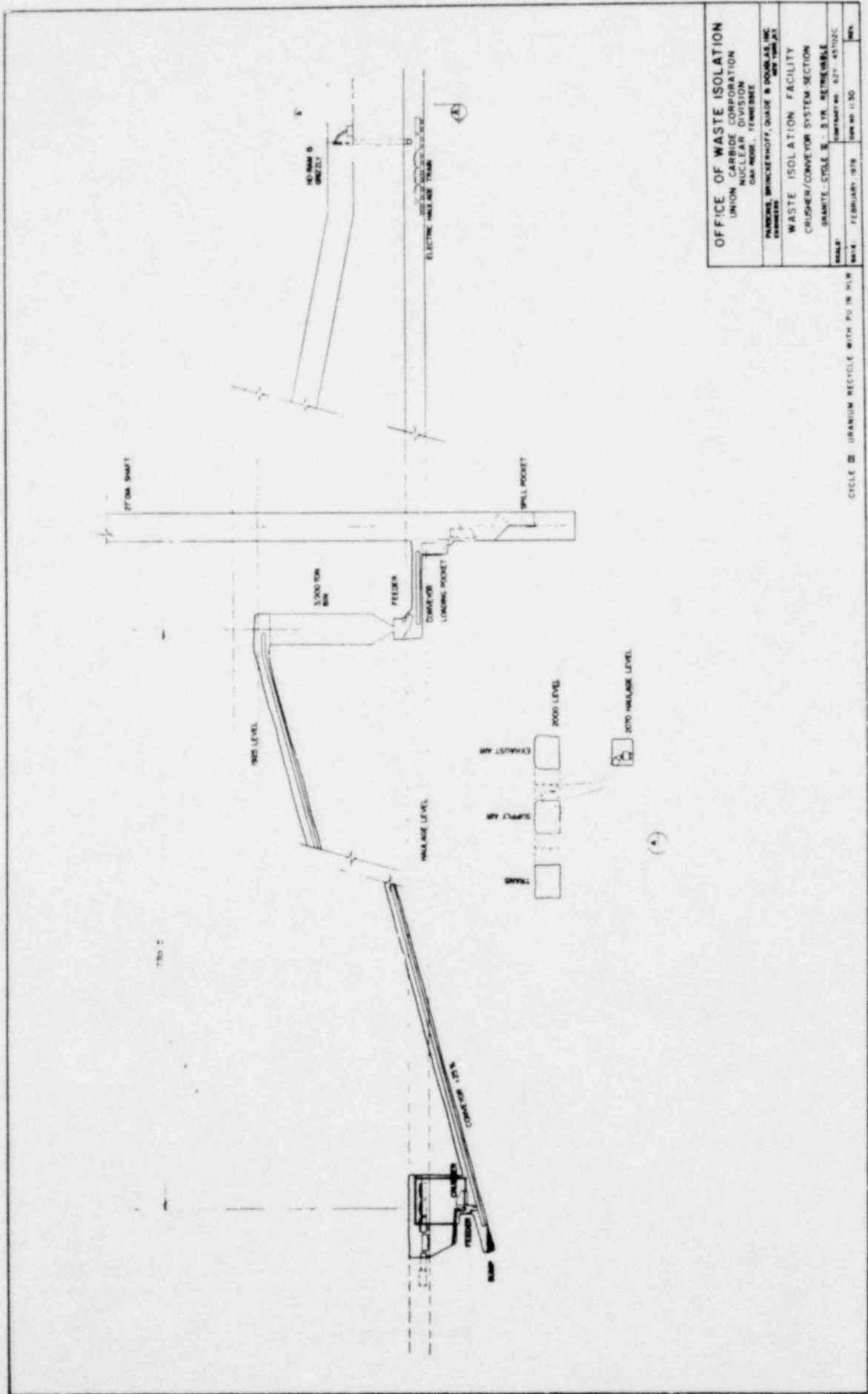


CRUSHER-CONVEYOR SYSTEM



OFFICE OF WASTE ISOLATION	
UNION CARBIDE CORPORATION NUCLEAR DIVISION OAK RIDGE, TENNESSEE	
PROJECT: BRUNNENHOFF, GRADE 8 & 9 DATE: 1979	
WASTE ISOLATION FACILITY	
CRUSHER/CONVEYOR SYSTEM PLAN	
DRAWN: STOLE, L. - E.L.S. INSTRUMENTAL	
SCALE:	CHECKED BY: R.T.Y. - R.T.Y.
DATE:	DATE: FEBRUARY, 1979

CYCLE III URANIUM RECYCLE WITH PU IN HLW

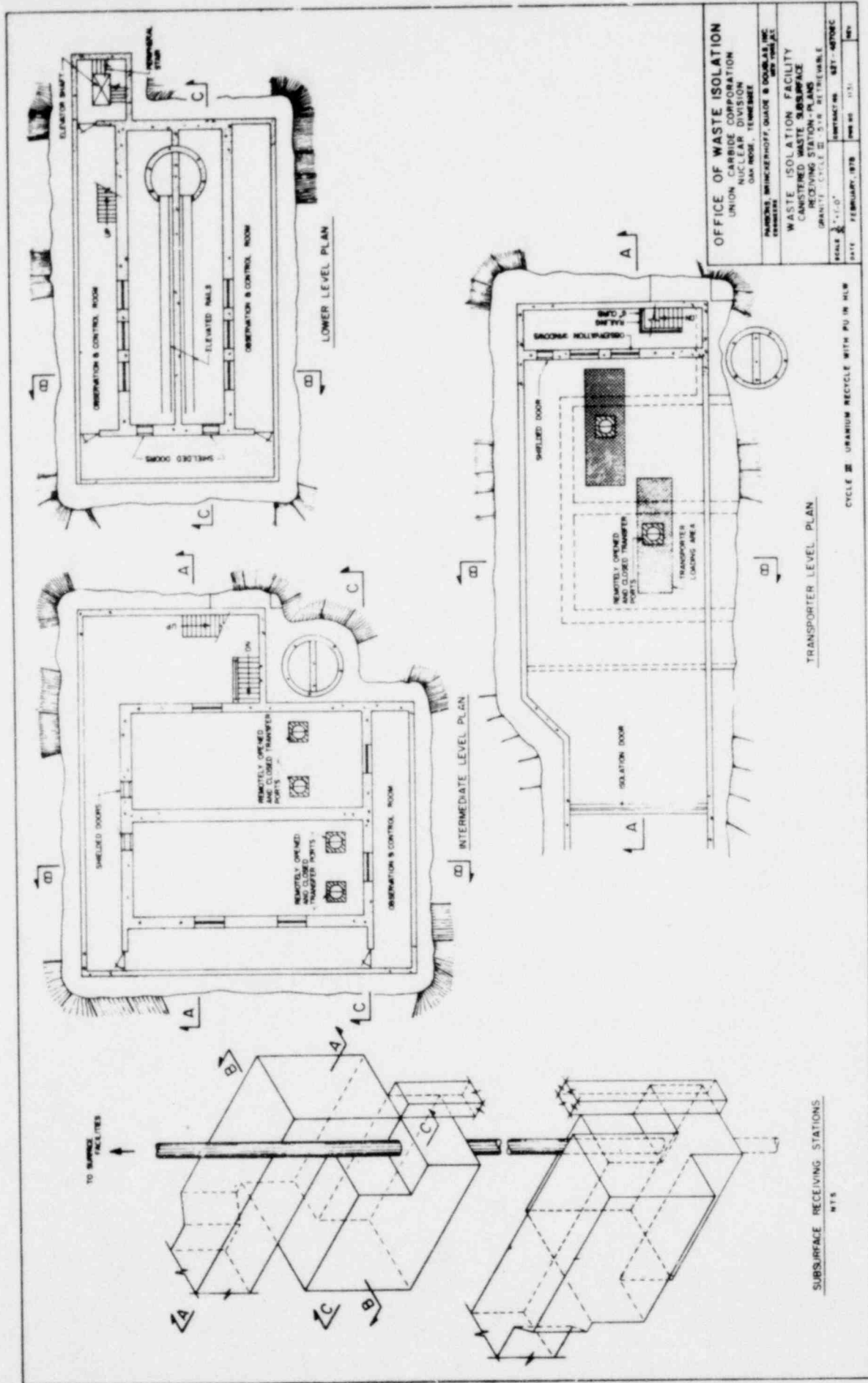


OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 OAK RIDGE, TENNESSEE

PARSONS BRINCKERHOFF, DAVID B. DOUGLAS, INC.
 ENGINEERS
 WASTE ISOLATION FACILITY
 CRUSHER/CONVEYOR SYSTEM SECTION
 GRANITE CYCLE II - 3 TR. RETRIEVABLE

SCALE: 1/8" = 1'-0"
 DATE: FEBRUARY, 1978
 DRAWING NO: 1130
 SHEET NO: 1/1

CYCLE II: URANIUM RECYCLE WITH PU IN NEW



OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 OAK RIDGE, TENNESSEE

WASTE ISOLATION FACILITY
 CONTAINING WASTE RECYCLE
 STATION PLANS
 GRANULE CYCLE 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

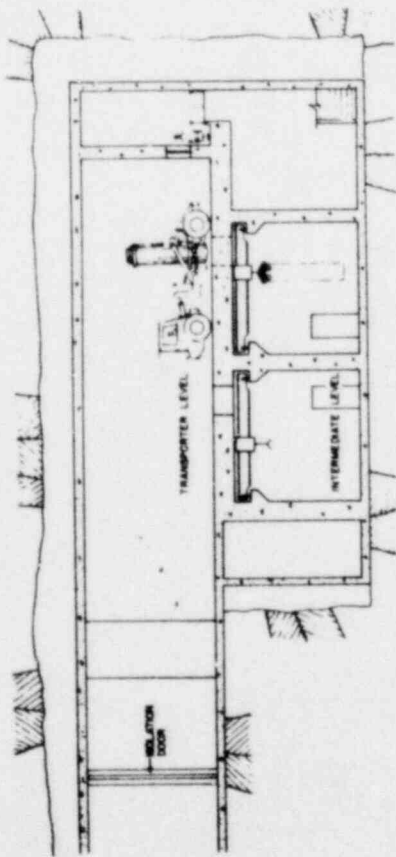
SCALE: 1/4" = 1'-0"
 DATE: FEBRUARY, 1978

TRANSPORTER LEVEL PLAN

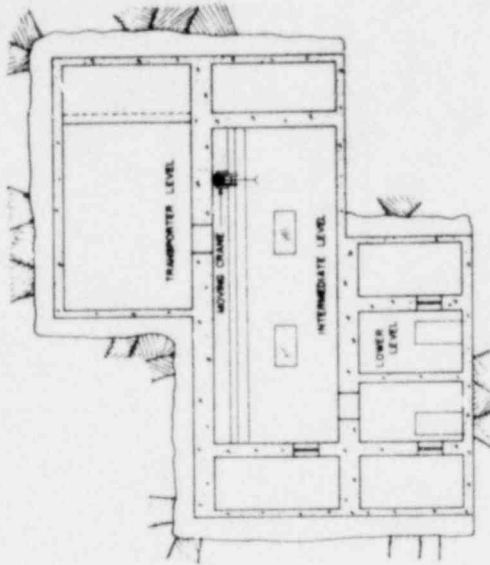
CYCLE 22 URANIUM RECYCLE WITH PU IN HLW

SUBSURFACE RECEIVING STATIONS

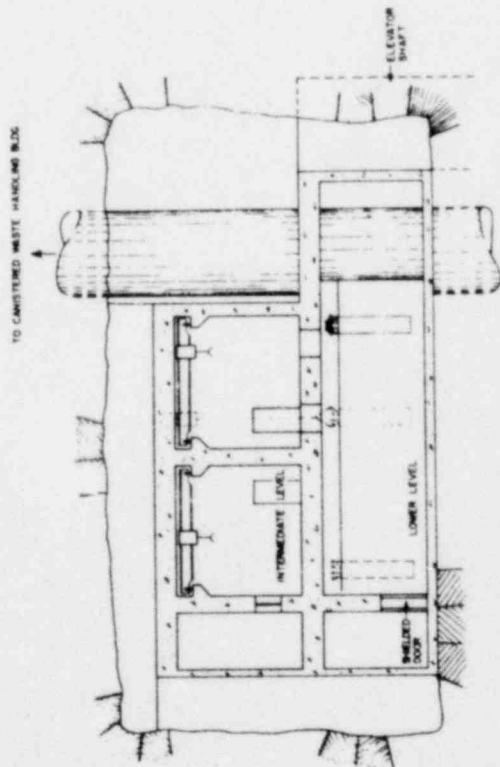
875



SECTION A-A



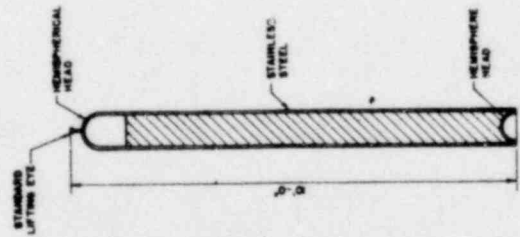
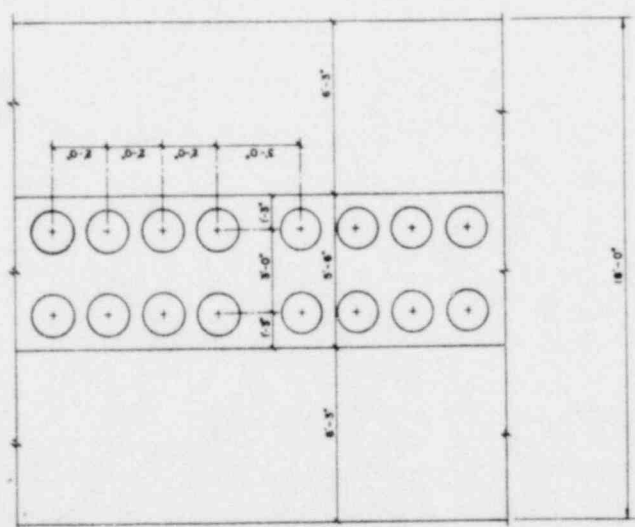
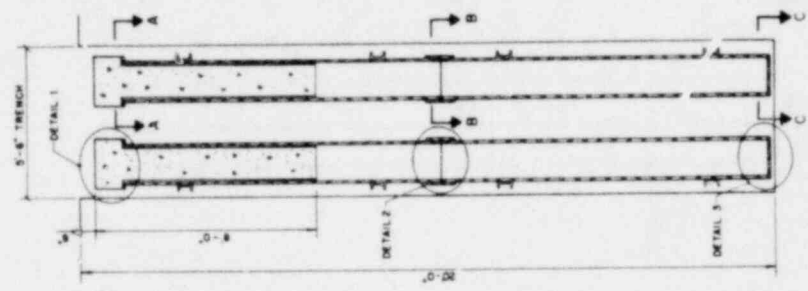
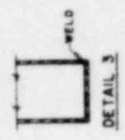
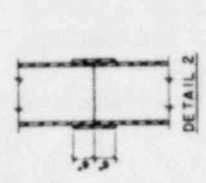
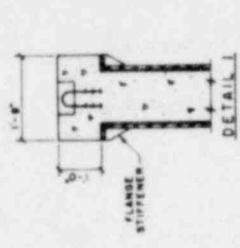
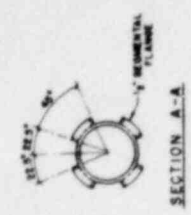
SECTION B-B



SECTION C-C

OFFICE OF WASTE ISOLATION	
UNION CARBIDE CORPORATION	
NUCLEAR DIVISION	
OAK RIDGE, TENNESSEE	
DRAWING: BRINCKERHOFF, QUIGG & DOUGLAS, INC.	
DESIGNER	
WASTE ISOLATION FACILITY	
CANISTERED WASTE SUBSURFACE	
RECEIVING SECTION - SECTIONS	
DRAWING: CYCLE III, 578, REVISIONABLE	
SCALE: 1/4" = 1'-0"	DATE: FEBRUARY, 1978
BY: [Signature]	CHK: [Signature]

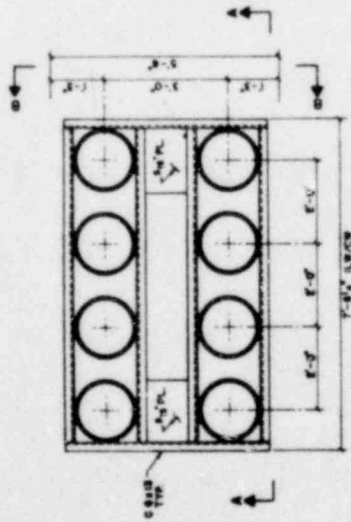
CYCLE III URANIUM RECYCLE WITH PU IN HLW



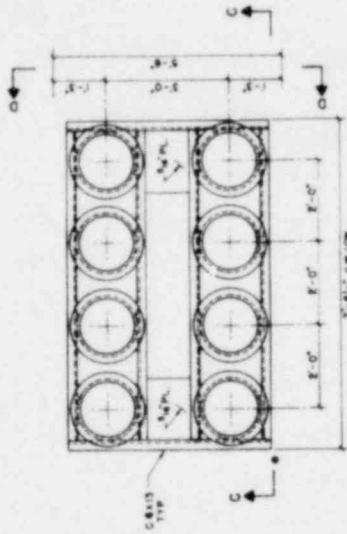
CANISTER PLACEMENT PLAN

CANISTER DETAIL

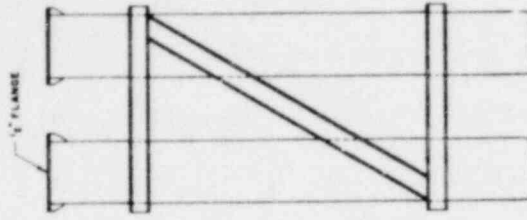
OFFICE OF WASTE ISOLATION	
UNION CARBIDE CORPORATION	
NORTH AVENUE, SUITE 1000	
DAYTON, OHIO 45424	
DESIGNED BY	BRUNNENBERGER, QUINN & DODD, INC.
ENGINEERED BY	BRUNNENBERGER, QUINN & DODD, INC.
WASTE ISOLATION FACILITY	
CANISTERED WASTE STORAGE	
GRANITE-CYCLE 8 - 5 YR RETRIEVABLE	
SCALE N.T.S.	CONTRACT NO. 877-48702C
DATE	FEBRUARY, 1978
APP. NO.	N.S.
REV.	



CANISTER PLACEMENT ASSEMBLY PLAN

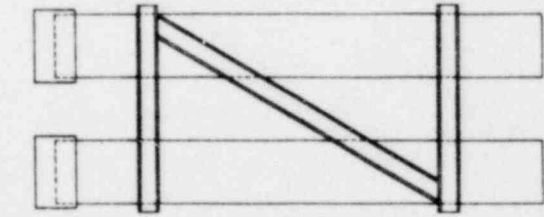


CANISTER PLACEMENT ASSEMBLY TOP VIEW

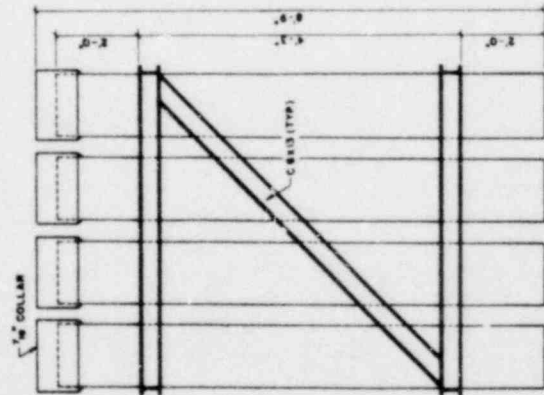


SECTION D-D

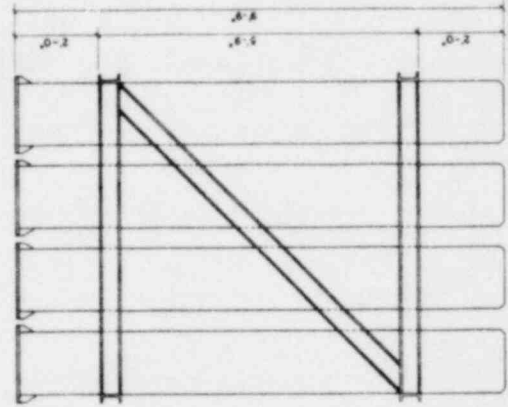
NOTE
CANISTERS ARE FOR RETRIEVABLE WASTE PLACEMENT ONLY
(INITIAL 5 YR PERIOD)



SECTION B-B



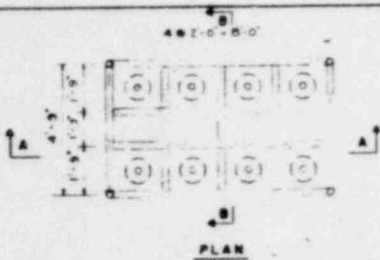
SECTION A-A



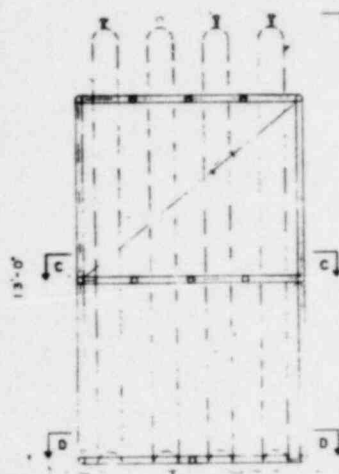
SECTION C-C

OFFICE OF WASTE ISOLATION	
UNION CARBIDE CORPORATION	
NUCLEAR DIVISION	
OAK RIDGE, TENNESSEE	
DRAWING: BRUNNENHOFF, QUADE & DOUGLAS, INC.	
NEW YORK, N.Y.	
WASTE ISOLATION FACILITY	
STORAGE CABLING ASSEMBLIES	
GRANITE-CYCLE B-3 1YR RETRIEVABLE	
SCALE: 3/4" = 1'-0"	CONTRACT NO. 857-45702C
DATE: FEBRUARY, 1978	ISSUE NO. 1/14
	REV.

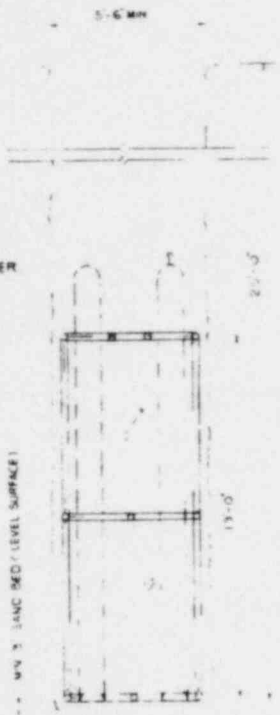
11-11-78 11:11 AM



PLAN



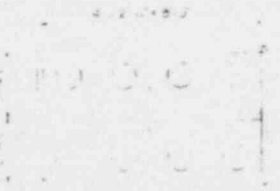
ELEVATION A-A



ELEVATION B-B

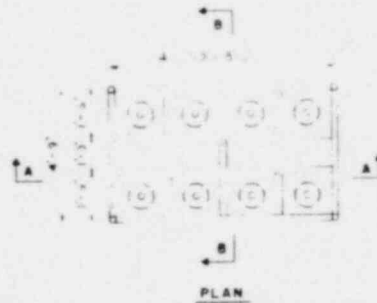


SECTION D-D



SECTION C-C

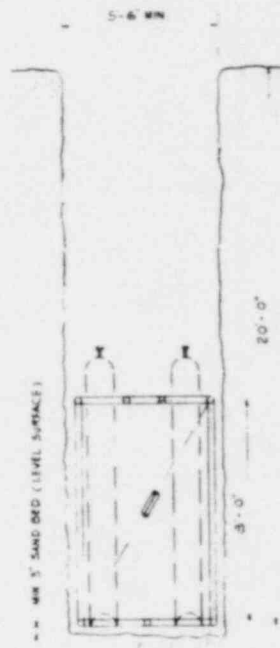
STORAGE FRAME - BWR
CYCLE II



PLAN



ELEVATION A-A



ELEVATION B-B



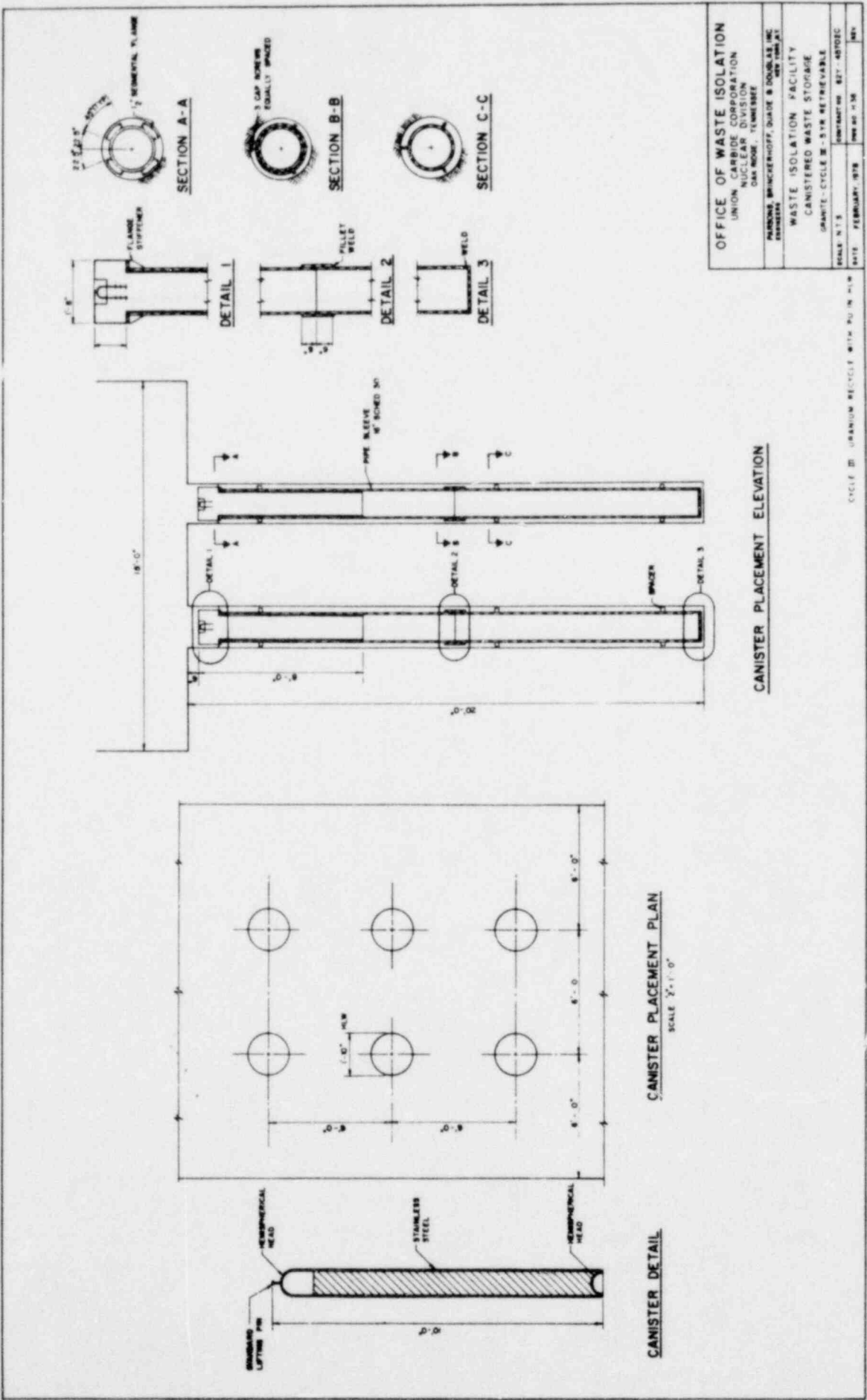
SECTION C-C

STORAGE FRAME - ILW & CW
CYCLE I OR III

- NOTES:
1. ALL MEMBERS ARE 3" DIAMETER STANDARD STEEL PIPE (A36 CARBON STEEL)
 2. ALL CONNECTIONS ARE TO BE WELDED
 3. STORAGE FRAMES ARE FOR NON-RETRIEVABLE WASTE PLACEMENT (AFTER METAL SIV PERIOD)

OFFICE OF WASTE ISOLATION UNION CARBIDE CORPORATION NUCLEAR DIVISION OAK RIDGE, TENNESSEE	
PARSONS, BRINCKERHOFF, QUADE & DOUGLAS, INC. ENGINEERS NEW YORK, N.Y.	
WASTE ISOLATION FACILITY STORAGE FRAME	
GRANITE - CYCLE I, II, III - 5 YR. RETRIEVABLE	
SCALE 1/2" = 1'-0"	CONTRACT NO. 62Y-48702C
DATE: FEBRUARY, 1978	DRW NO. H-35 REV.

CYCLE III URANIUM RECYCLE WITH PU IN HLW



OFFICE OF WASTE ISOLATION	
UNION CARBIDE CORPORATION	
NUCLEAR DIVISION	
OAK RIDGE - TENNESSEE	
PARSONS BRINCKERHOFF, QUAD B DOUBLES INC	
DESIGNERS	
WASTE ISOLATION FACILITY	
CANISTERED WASTE STORAGE	
GRANITE-CYCLE B - 518 RETRIEVABLE	
SCALE: N.T.S.	DATE: FEBRUARY, 1978
BY: [Signature]	CHKD: H.M.
APP: [Signature]	REV: [Signature]

CYCLE B: URANIUM RECYCLE WITH PU IN PLW

CANISTER PLACEMENT ELEVATION

CANISTER PLACEMENT PLAN
SCALE 2" = 1'-0"

CANISTER DETAIL

TIME IN WEEKS

0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145 150 155 160 165 170 175 180 185 190 195 200 205 210 215 220 225 230 235 240 245 250 255 260 265 270 275 280 285 290 295 300 305 310 315 320 325 330 335 340 345 350 355 360 365 370 375 380 385 390 395 400 405 410 415 420 425 430 435 440 445 450 455 460 465 470 475 480 485 490 495 500 505 510 515 520 525 530 535 540 545 550 555 560 565 570 575 580 585 590 595 600 605 610 615 620 625 630 635 640 645 650 655 660 665 670 675 680 685 690 695 700 705 710 715 720 725 730 735 740 745 750 755 760 765 770 775 780 785 790 795 800 805 810 815 820 825 830 835 840 845 850 855 860 865 870 875 880 885 890 895 900 905 910 915 920 925 930 935 940 945 950 955 960 965 970 975 980 985 990 995 1000

DESCRIPTION

27 - 8 1/2 SHFT	CONTRACTOR'S MOBILIZATION	0	5
	COLLAR AND HEADRAPE	5	35
	SHAFT SINKING, EQUIPPING, LATERAL DEVELOPMENT	35	105
	INSTALL PERMANENT EQUIPMENT	105	110
	DELAYS	110	115
	DEVELOPMENT FOLLOWING SHAFT SINKING	115	125
28 - 8 FRESH AIR SHFT	CONTRACTOR'S MOBILIZATION	0	5
	COLLAR AND HEADRAPE	5	35
	SHAFT SINKING, LATERAL DEVELOPMENT	35	105
	REMOVE SINKING EQUIPMENT	105	110
	INSTALL TARD, MISCELLANEOUS DELAYS	110	115
29 - 8 EXHAUST AIR SHFT	CONTRACTOR'S MOBILIZATION	0	5
	COLLAR AND HEADRAPE	5	35
	SHAFT SINKING, EQUIPPING, LATERAL DEVELOPMENT	35	105
	INSTALL TARD, MISCELLANEOUS DELAYS	105	110
30 - 2 MINORITY-WASTE SHFT	CONTRACTOR'S MOBILIZATION	0	5
	COLLAR AND HEADRAPE	5	35
	SHAFT SINKING, EQUIPPING	35	105
	EQUIPMENT STORAGE, ENGINEERING, STATIONS	105	110
	INSTALL PERMANENT EQUIPMENT, MISCELLANEOUS DELAYS	110	115
31 - 8 LUM SHFT	CONTRACTOR'S MOBILIZATION	0	5
	COLLAR AND HEADRAPE	5	35
	SHAFT SINKING, LATERAL DEVELOPMENT	35	105
	INSTALL PERMANENT HEADRAPE WITH	105	110
	MISCELLANEOUS DELAYS	110	115

OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 OAK RIDGE, TENNESSEE

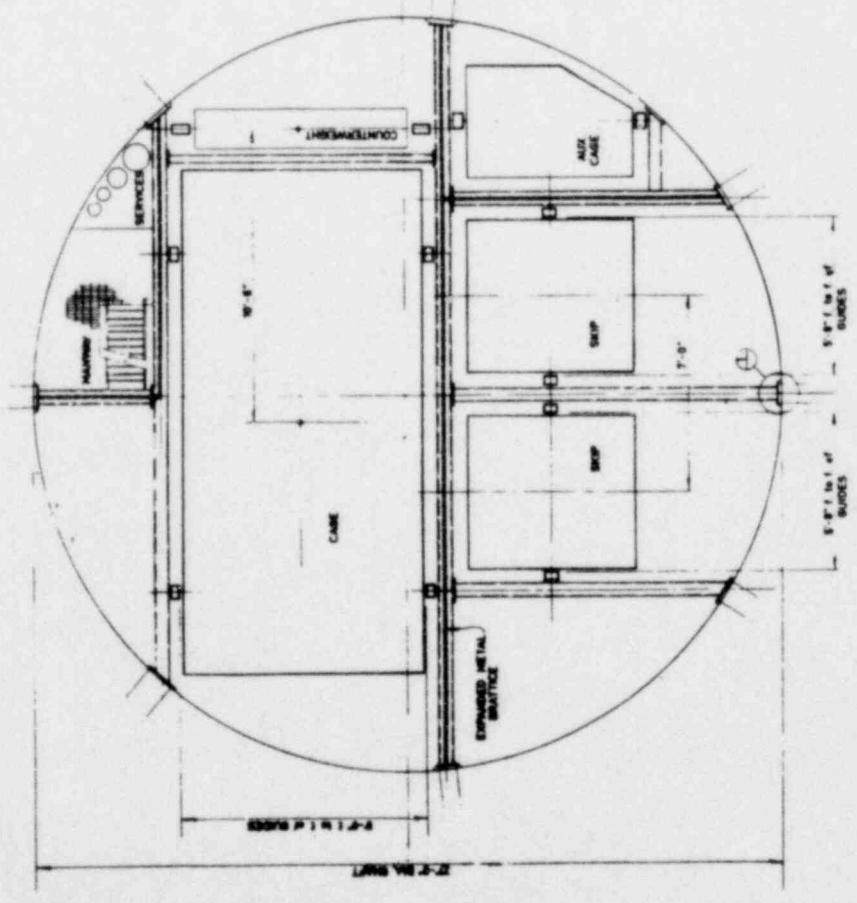
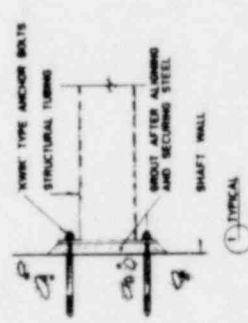
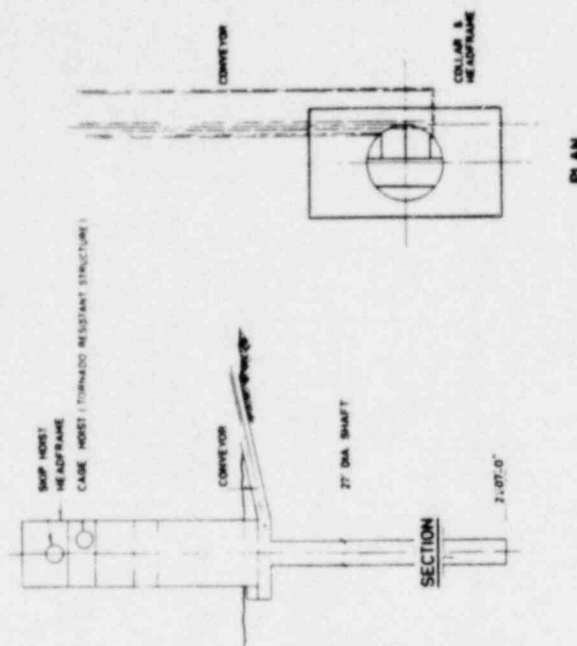
PARSONS BRINCKERHOFF, QUADRA & BRUNNEN
 ENGINEERS

WASTE ISOLATION FACILITY
 SHIFT CONSTRUCTION SCHEDULE

GRANITE - CYCLE W - 8 1/2 SHFT
 START DATE: 1/27/78
 END DATE: 1/27/78

SCALE: 1 DAY = 10 WEEKS
 DATE: FEBRUARY, 1978
 DRAWING NO.: 1037

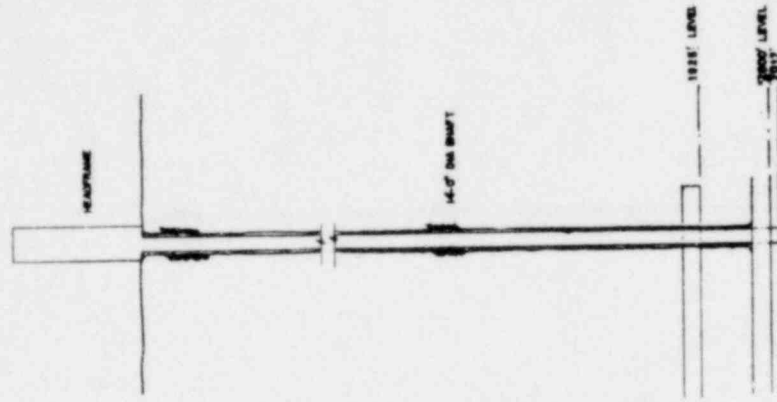
CYCLE W: URANIUM RECYCLE WITH PU IN HLW



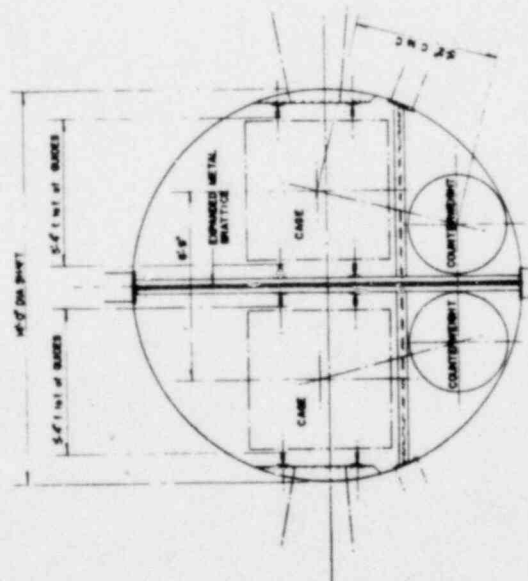
PLAN OF SHAFT

OFFICE OF WASTE ISOLATION	
UNION CARBIDE CORPORATION	
NUCLEAR DIVISION	
DAN HOOKER, YEMMSEE	
DRAWN BY: BRUNCKENHOFF, QUARRE & SOUTHWELL, INC.	
CHECKED BY: [Signature]	
WASTE ISOLATION FACILITY	
MEN AND MATERIAL SHAFT	
GRANITE - CYCLE III - 519 - AT THE ISABLE	
SCALE	AS SHOWN
DATE	FEBRUARY, 1978

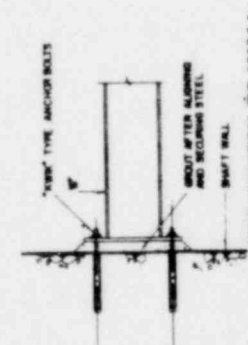
CYCLE III URANIUM RECYCLE WITH PU IN HLW



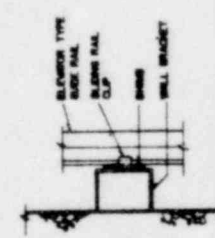
SHAFT SECTION



PLAN OR SHAFT



TYP. UNION TO WALL CONNECT'N



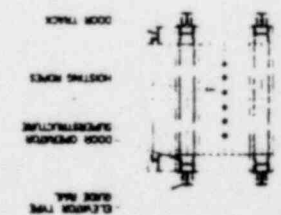
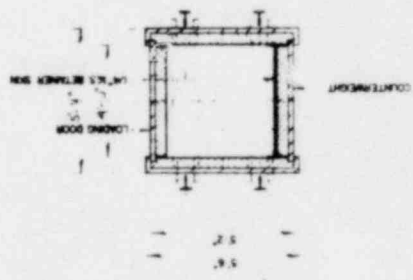
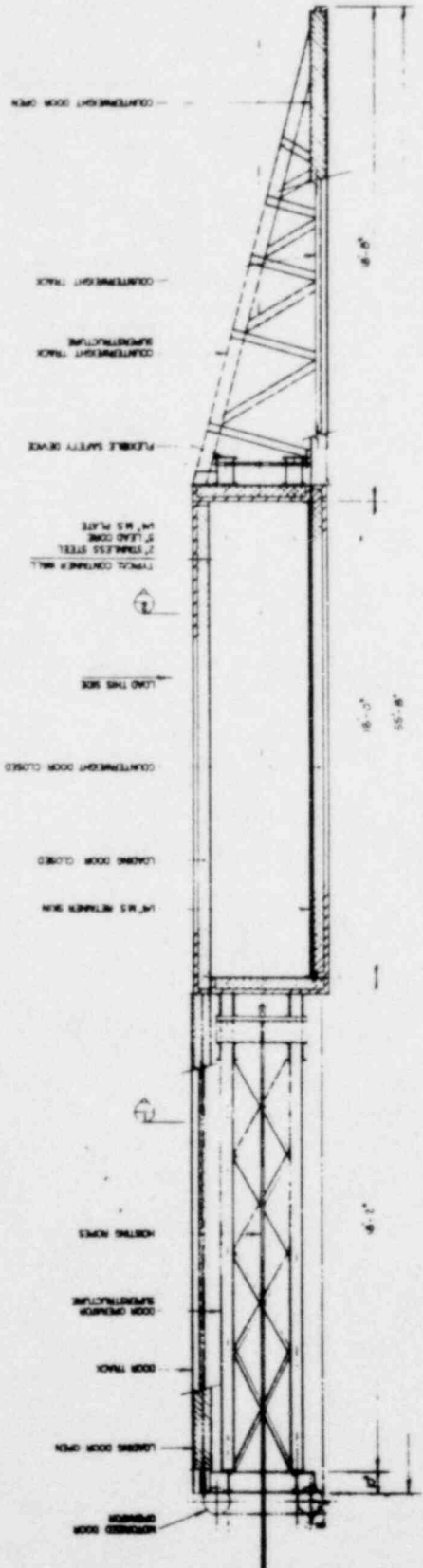
TYP. GUIDE RAIL CONNECT'N

OFFICE OF WASTE ISOLATION UNION CARBIDE CORPORATION NUCLEAR DIVISION DAYTON, OHIO, 45424	
WASTE ISOLATION FACILITY CONTAINED WASTE SHAFT WASTE CYCLE B - 819 RETRIEVABLE	
PROJECT NO. 837-407A-10	DATE: FEBRUARY, 1978
DESIGNED BY: [Signature]	DRAWN BY: [Signature]

CYCLE B - URANIUM-RECYCLE WITH PU IN HLW

OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 ONE WOODLAND DRIVE
 YANCOKE, WINCHESTER, OHIO 45388-0001

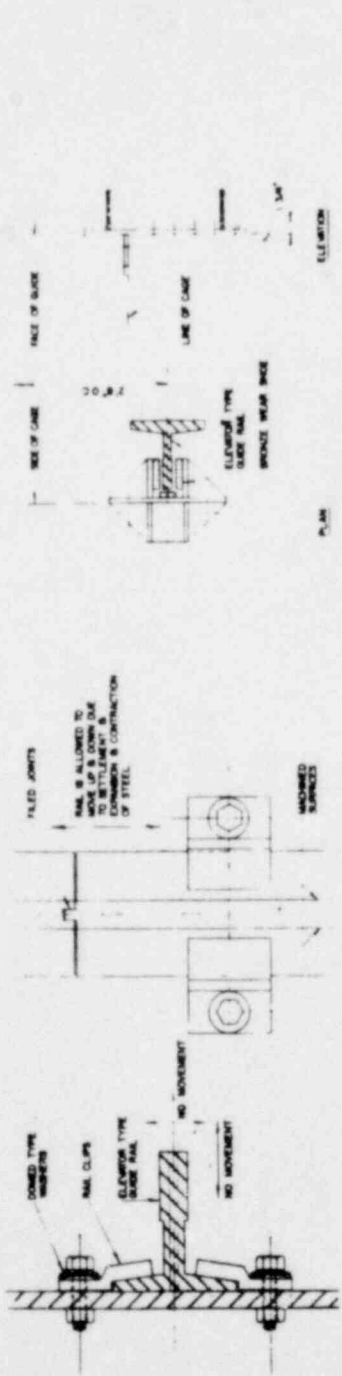
WASTE ISOLATION FACILITY
 CANISTERED WASTE CAGE
 GRANITE - CYCLE III - 5 TH. RETRIEVABLE
 CONTRACT NO. 821-45702C
 SCALE: 1/8" = 1'-0"
 DATE: FEBRUARY, 1978
 SHEET NO. 14-0



CYCLE III URANIUM RECYCLE WITH PU IN RW
 ESTIMATED WEIGHT 2000

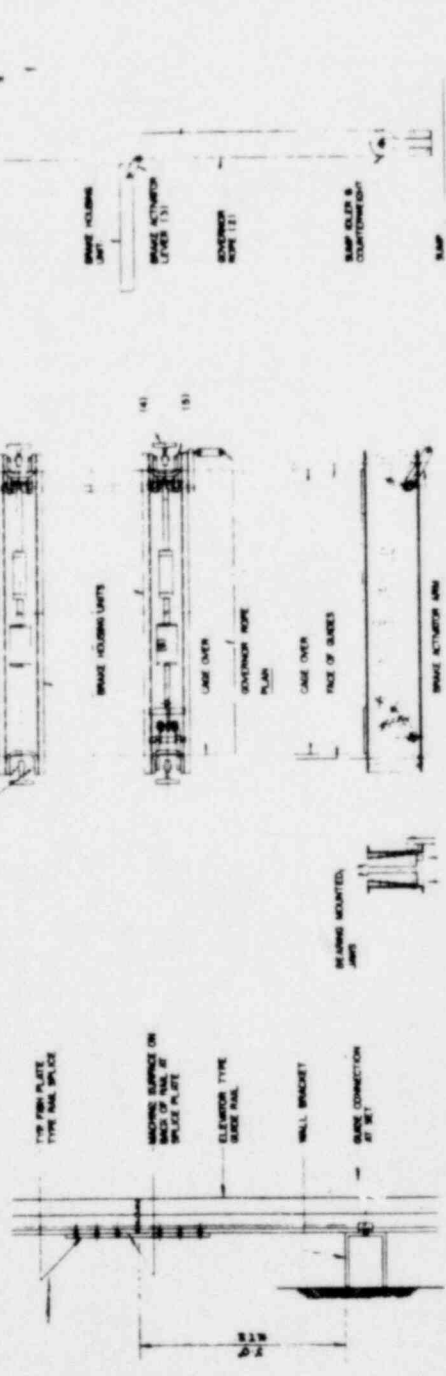
NOTES

1. THE SHOE SHALL BE MOUNTED ON THE RAIL AND SHALL BE ADJUSTED TO THE RAIL PROFILE AS THE SHOE IS MOUNTED. THE ATTITUDE LEVEL (L) IS THE TRACKING POSITION. THE ADJUSTMENT OF THE RAIL SHALL BE IN THE LINE OF THE CONTACT POINT (L) AS THE CONTACT POINT (L) IS MOUNTED AND THE SHOE SHALL ADJUST THE SHOE WHEEL TO A CONTACT POINT (L) AS THE CONTACT POINT (L) IS MOUNTED. (L) IS NOTATIONALLY



TYPICAL RAIL ASSEMBLY

TYPICAL GUIDE SHOE



GUIDE GENERAL ASSEMBLY

FLEXIBLE SAFETY DEVICE

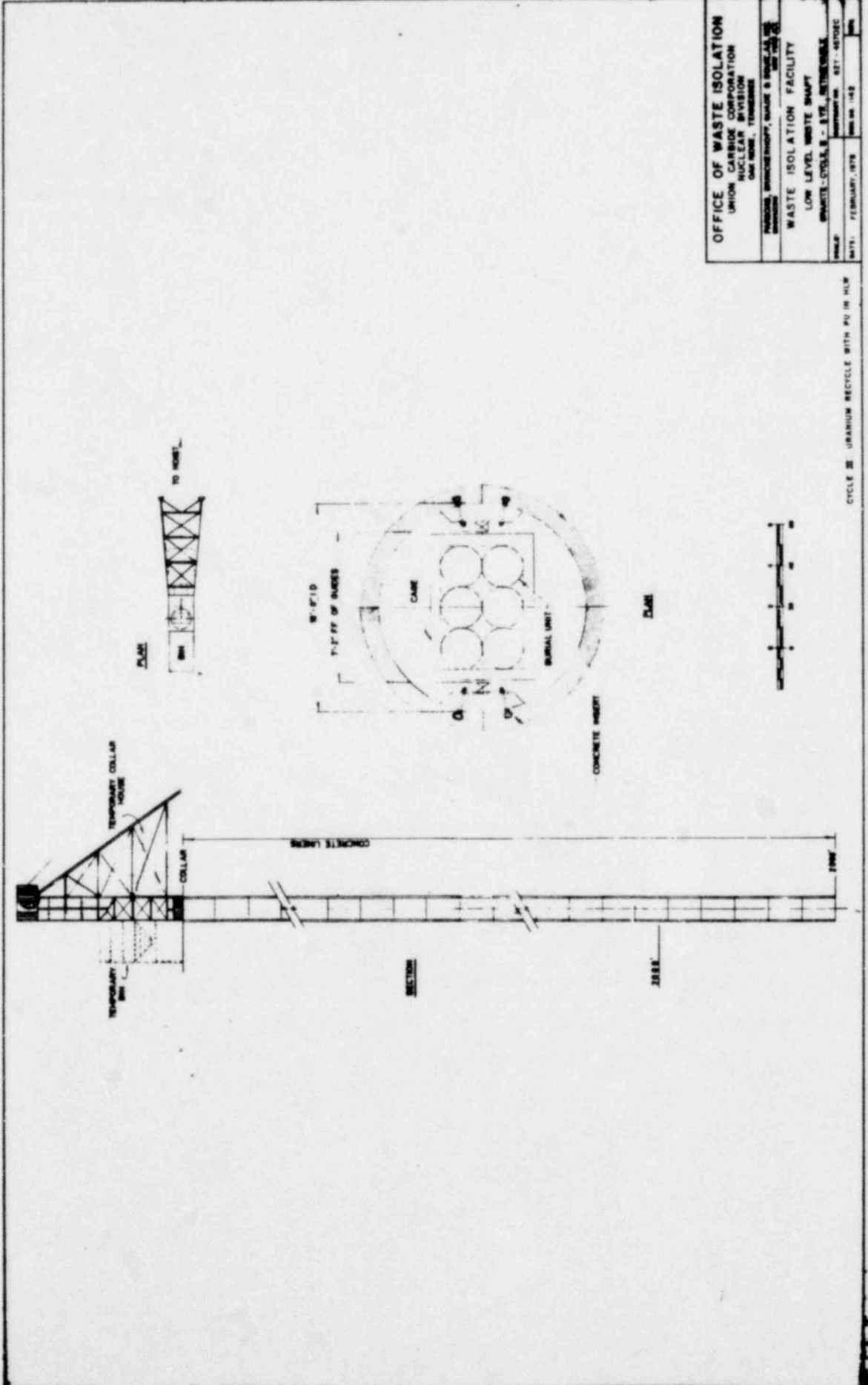
SHAFT SAFETY GEAR ARRANGEMENT

OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 OAK RIDGE, TENNESSEE

WASTE ISOLATION
 CONTAINED WASTE SAFETY MECHANISMS
 URBANITE-CYCLE B - 3-YR BEARING

DATE: FEBRUARY, 1978

CYCLE B - URBANITE RECYCLE WITH PU IN PLM



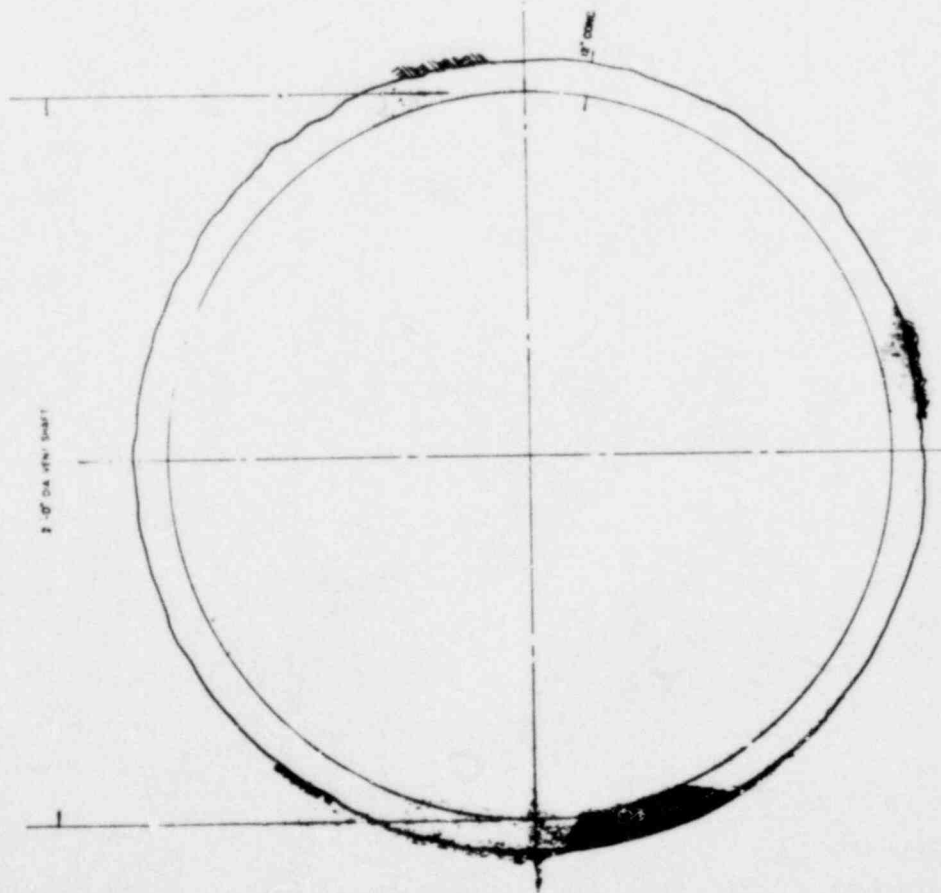
OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 ONE W. W. W. TOWER, TENNESSEE

PROJECT: WASTE ISOLATION, SHAFT & RINGS
 DRAWING NO. 457-45702C

WASTE ISOLATION FACILITY
 LOW LEVEL WASTE SHAFT
 SHAFT - CYCLE 25 - 8.75 - 10.75

DATE: FEBRUARY, 1978

CYCLE 25 URANIUM RECYCLE WITH PU IN HLW



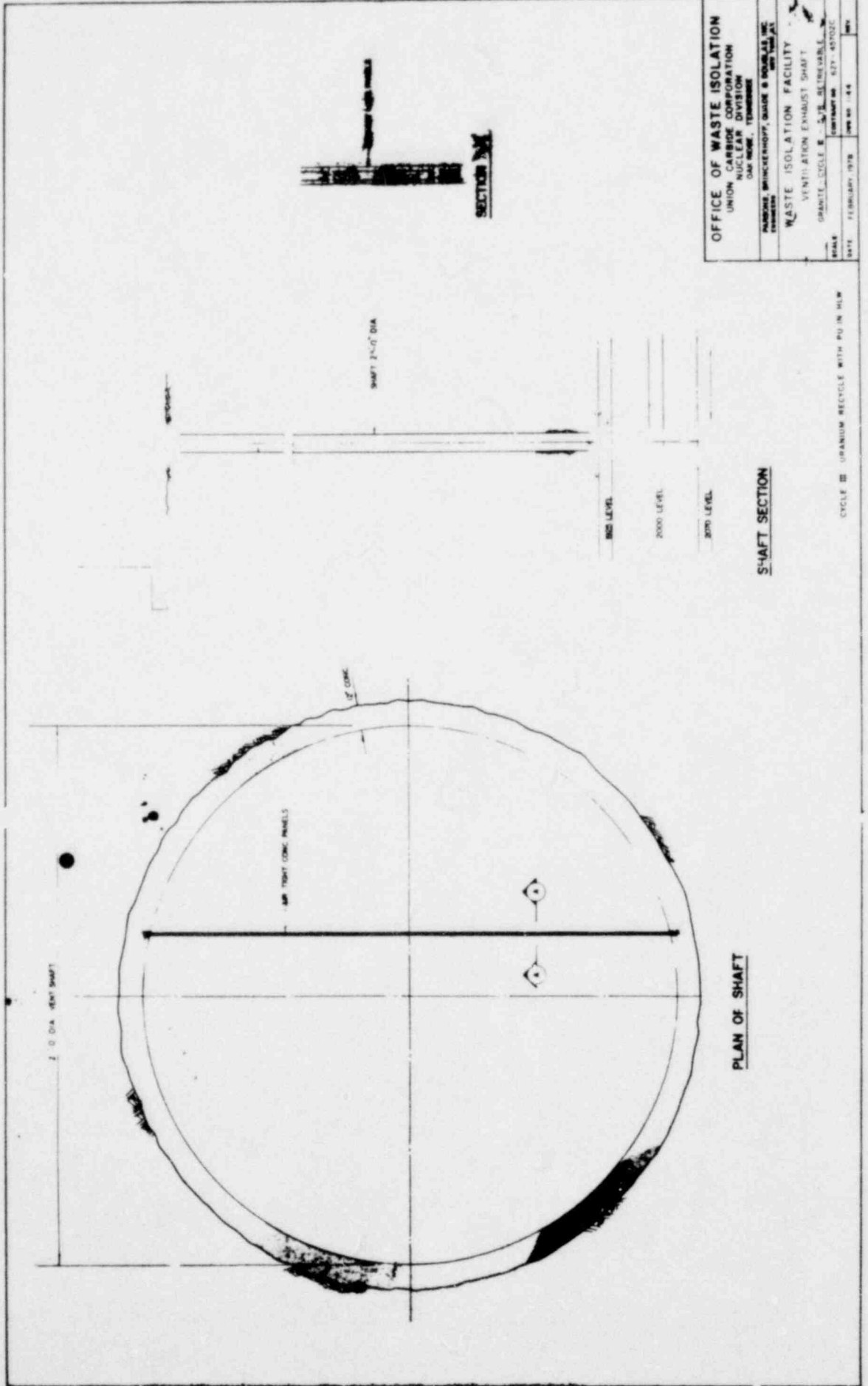
PLAN OF SHAFT



SHAFT SECTION

OFFICE OF WASTE
UNION CARBIDE CORP.
NUCLEAR DIV.
DAS MOB. 78-1000
WASTE ISOLATION FACILITY
VENTILATION SUPPLY SHAFT
GRAND CIRCLE 2, S.W. MOUNTAIN VIEW
COUNTY, OR, 97136
SCALE
DATE FEBRUARY, 1978 DWG NO. 143

CYCLE III URANIUM RECYCLE WITH PU IN HLW



OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 DAYTON, OHIO 45424

WASTE ISOLATION FACILITY
 VENTILATION EXHAUST SHAFT
 GRANITE CYCLE # 37E-58 (REVISED)
 CONTRACT NO. 82Y-45702C
 DATE: FEBRUARY 1978

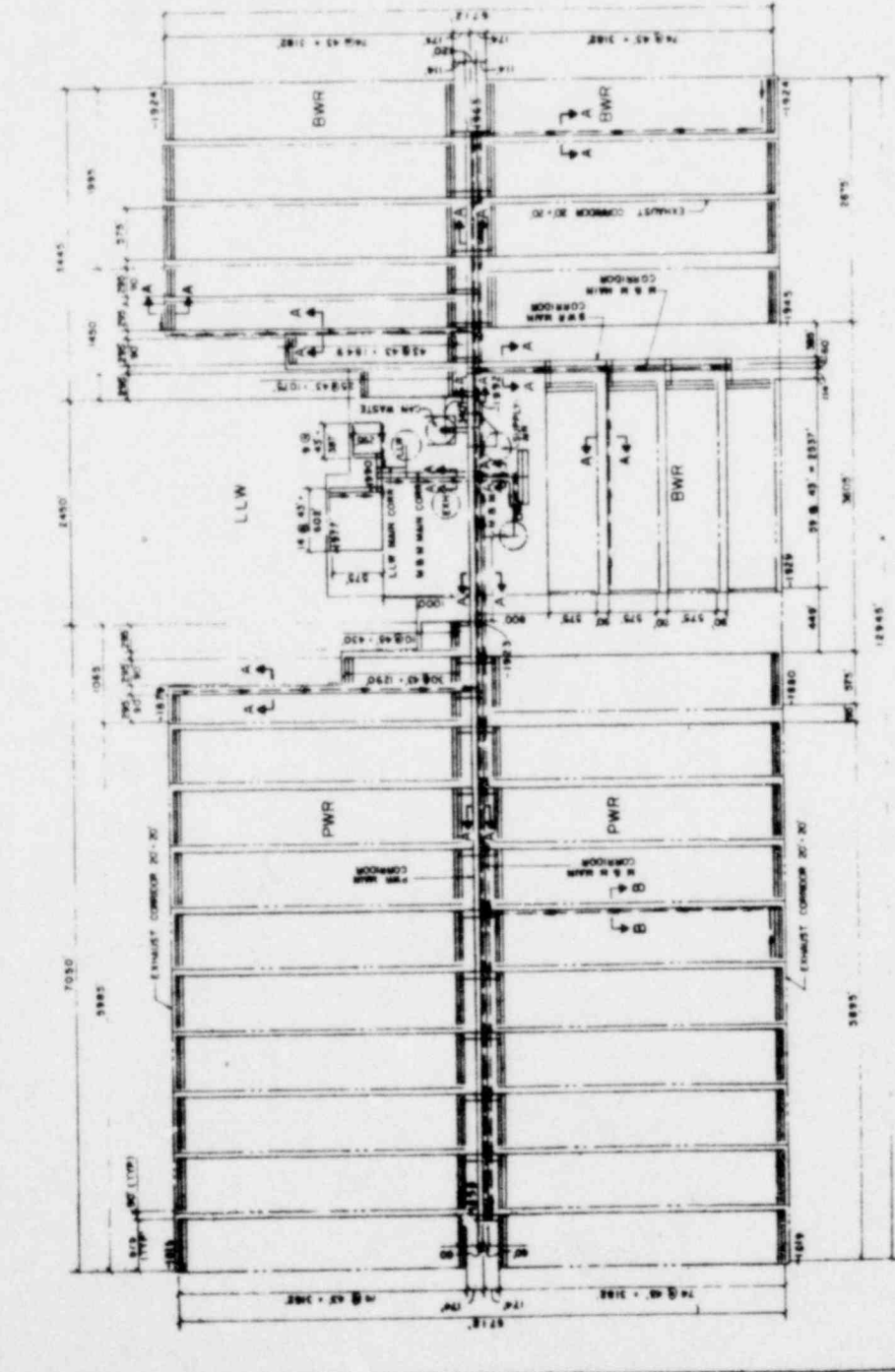
SHAFT SECTION

PLAN OF SHAFT

CYCLE # GRANULUM RECYCLE WITH PU IN MILW



- NOTES -
1. ALL LINES SHOWN REPRESENT THE CENTER LINES OF EITHER ROOMS OR CORRIDORS.
 2. FOR SHIRT AREA DETAIL SEE DWG NO. 540.
 3. PWR = PRESSURIZED WATER REACTOR WASTE.
 4. BWR = BOILING WATER REACTOR WASTE.
 5. LLW = LOW LEVEL WASTE.
 6. FOR ROOM CROSS SECTIONS SEE DWG NO. 540.
 7. ROOM SIZES:
 - PWR 560'7" x 280'4" x 21'
 - BWR 560'7" x 280'4" x 21'
 - LLW 280'4" x 21' x 21'
 8. ALL CORRIDORS ARE 30' WIDE.



OFFICE OF WASTE ISOLATION
UNION CARBIDE CORPORATION
NUCLEAR DIVISION
ONE MOORE, TENNESSEE

HAZARDUS, MANICER-SHOFF, SHADE & DOUGLAS, INC.
MEMPHIS, TENNESSEE

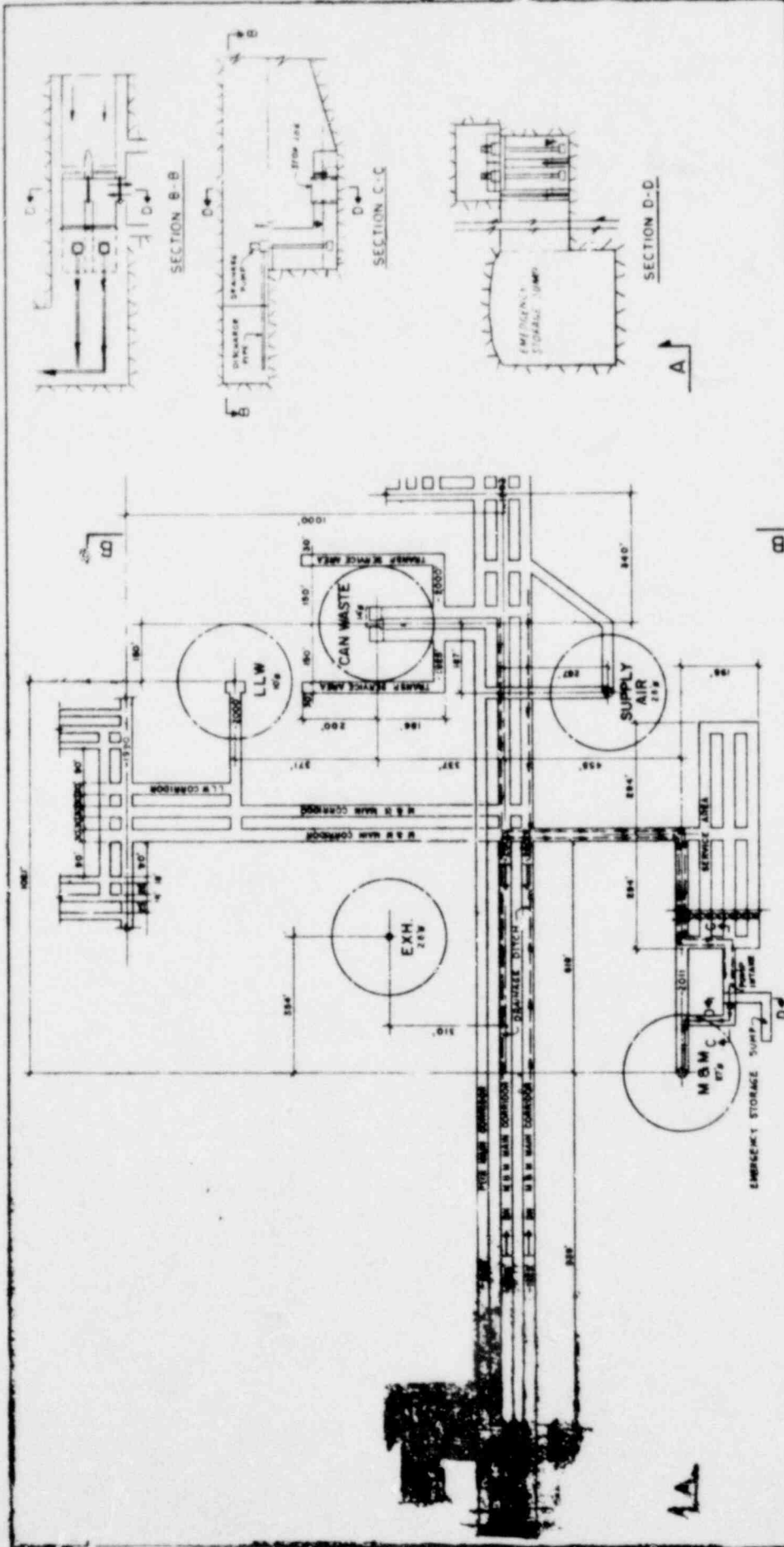
WASTE ISOLATION FACILITY
MINE DRAINAGE PLAN

DRAWN BY: J. W. B. 314 RETRIEVABLE
SCALE: 1" = 50'-0"
DATE: FEBRUARY, 1978

MINE DRAINAGE PLAN

NOTES:
DRAINAGE PLAN FOR CYCLE II IS SHOWN.
DRAINAGE PLANS FOR CYCLE I & III ARE SIMILAR.

CYCLE III: URANIUM RECYCLE WITH PU IN M/W



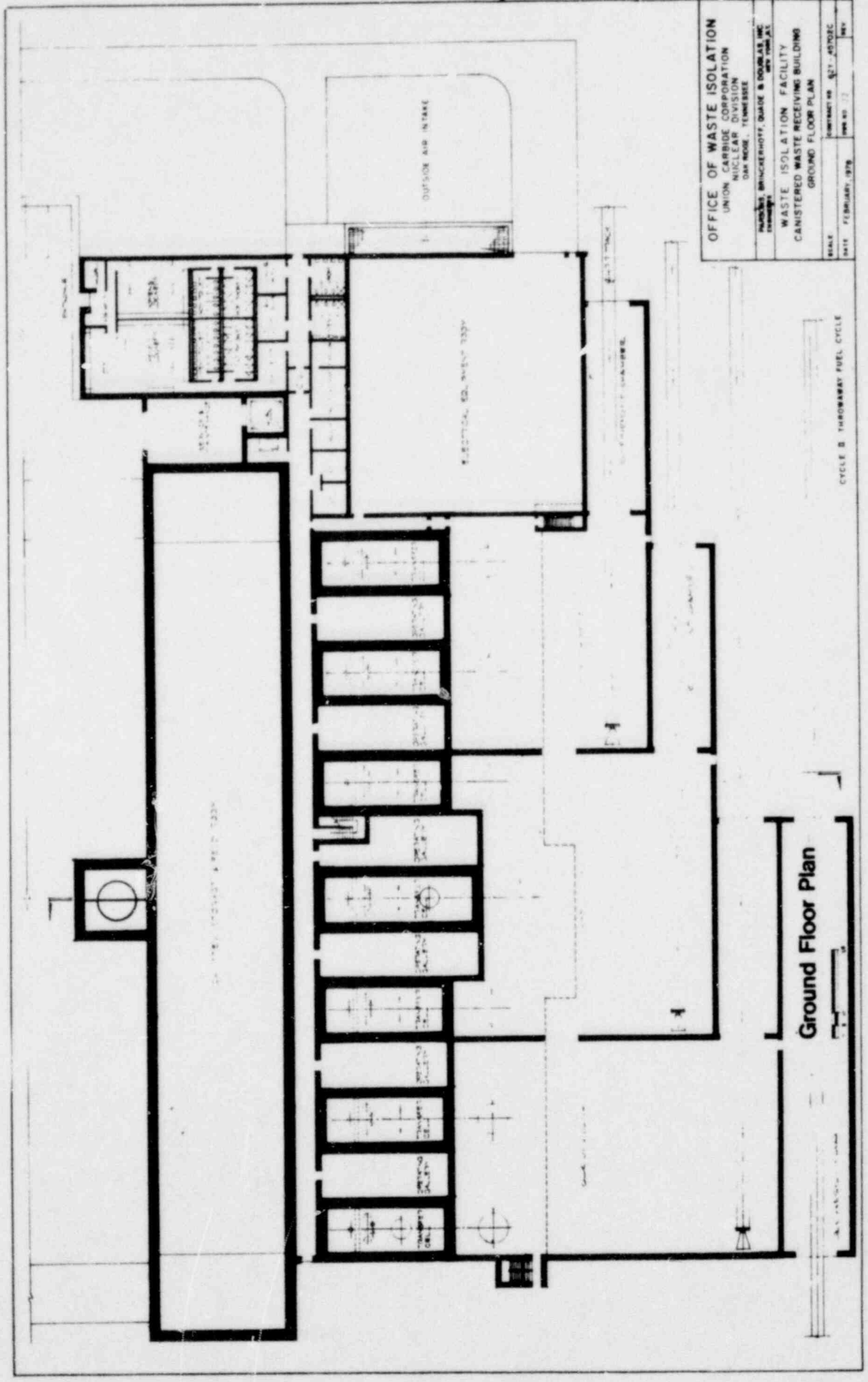
MINE PARTIAL PLAN

SCALE 1" = 10'

NOTES:
 DRAINAGE PLAN FOR CYCLE II IS SHOWN.
 DRAINAGE PLANS FOR CYCLE I & III ARE SIMILAR.

OFFICE OF WASTE ISOLATION	
UNION CARBIDE CORPORATION NUCLEAR DIVISION ONE BOND STREET PITTSBURGH, PENNSYLVANIA 15201	
PROJECT: WASTE ISOLATION FACILITY PARTIAL DRAINAGE PLAN B SECTIONS GRANITE - CYCLE II - 5' x 4' RETRIEVABLE	
SCALE: 1" = 10'	DATE: FEBRUARY, 1978
PROJECT NO. 827-4575EC	DESIGNER: H. G.

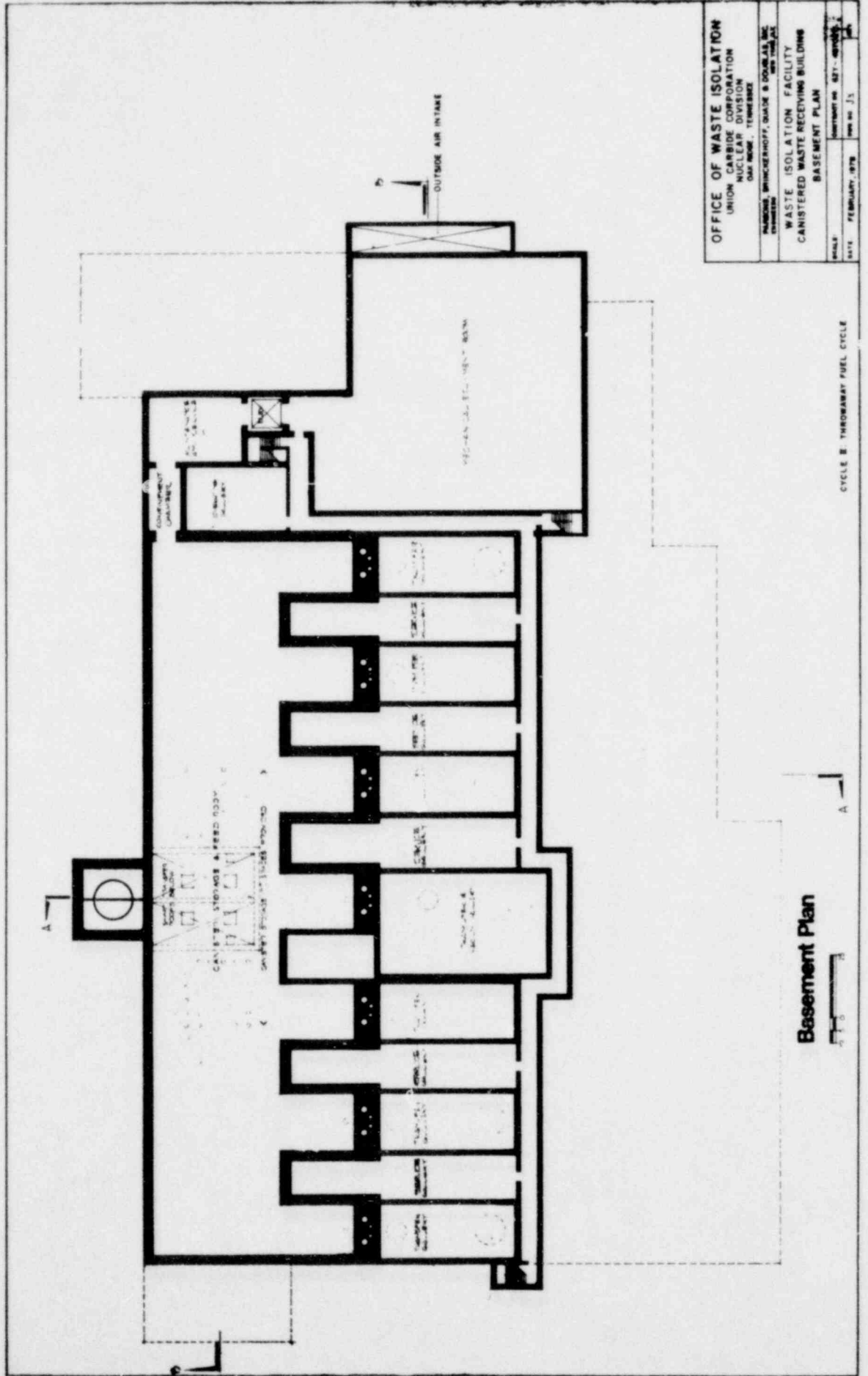
CYCLE II: URANIUM RECYCLE WITH PU IN HLM



OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 OAK RIDGE, TENNESSEE
 PLANNING, BRINCKERHOFF, QUAIN & DOUGLAS, INC.
 ENGINEERS
 WASTE ISOLATION FACILITY
 CANISTERED WASTE RECEIVING BUILDING
 GROUND FLOOR PLAN
 SCALE: AS SHOWN
 DATE: FEBRUARY 1979
 CONTRACT NO. 27-4502C
 SHEET NO. 12

Ground Floor Plan

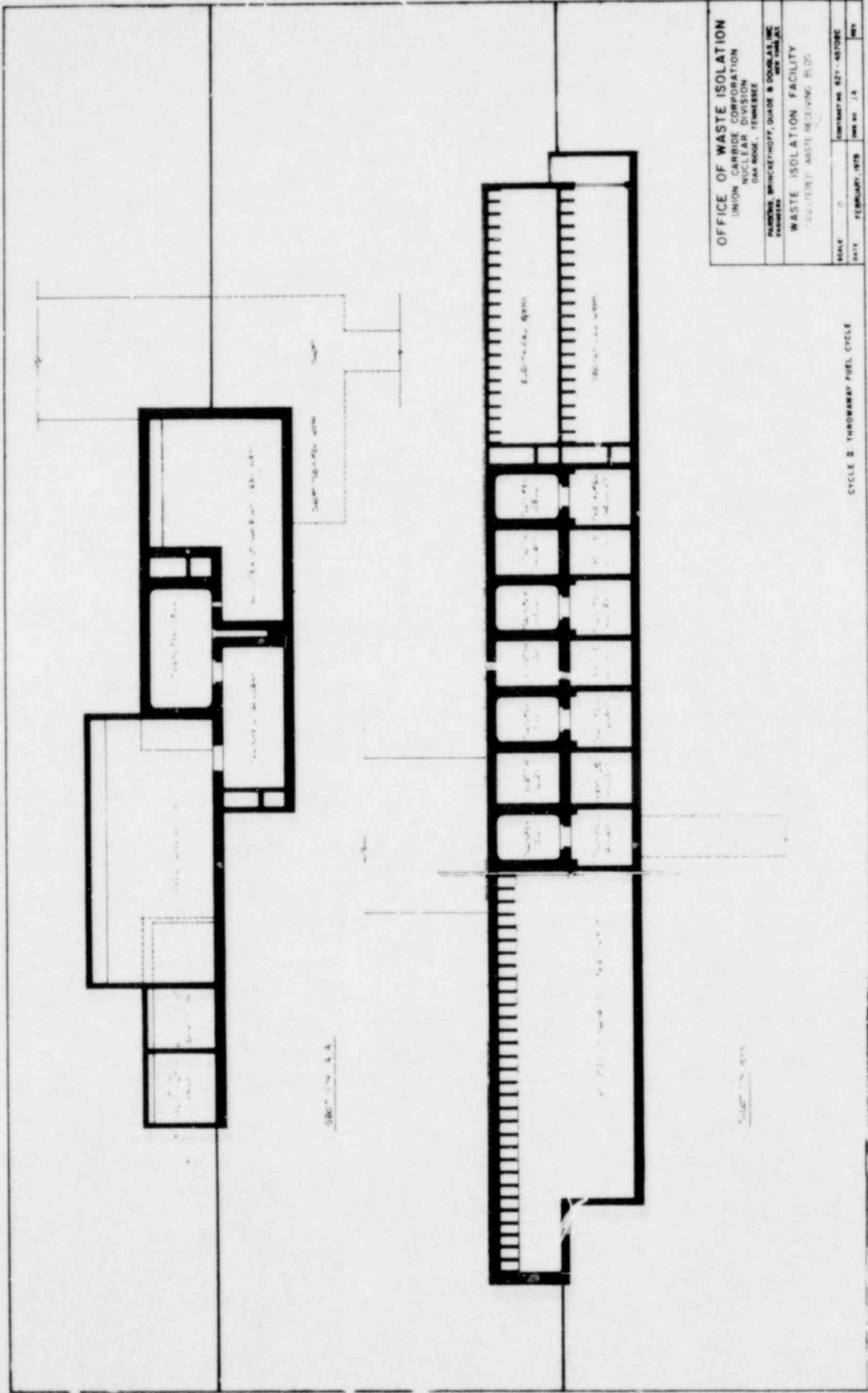
CYCLE B THRUWAY FUEL CYCLE



OFFICE OF WASTE ISOLATION	
UNION CARBIDE CORPORATION	
NUCLEAR DIVISION	
ONE MOORE, TENNESSEE	
NATIONS, BRUNCKENHOFF, SHANK & DOUGLAS, INC.	
CONSULTANTS	
WASTE ISOLATION FACILITY	
CANISTERED WASTE RECEIVING BUILDING	
BASEMENT PLAN	
SCALE	AS SHOWN ON SET - 100% 1" = 10'-0"
DATE	FEBRUARY, 1978

Basement Plan

CYCLE B, THROUGHWAY FUEL CYCLE



OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 OAK RIDGE, TENNESSEE

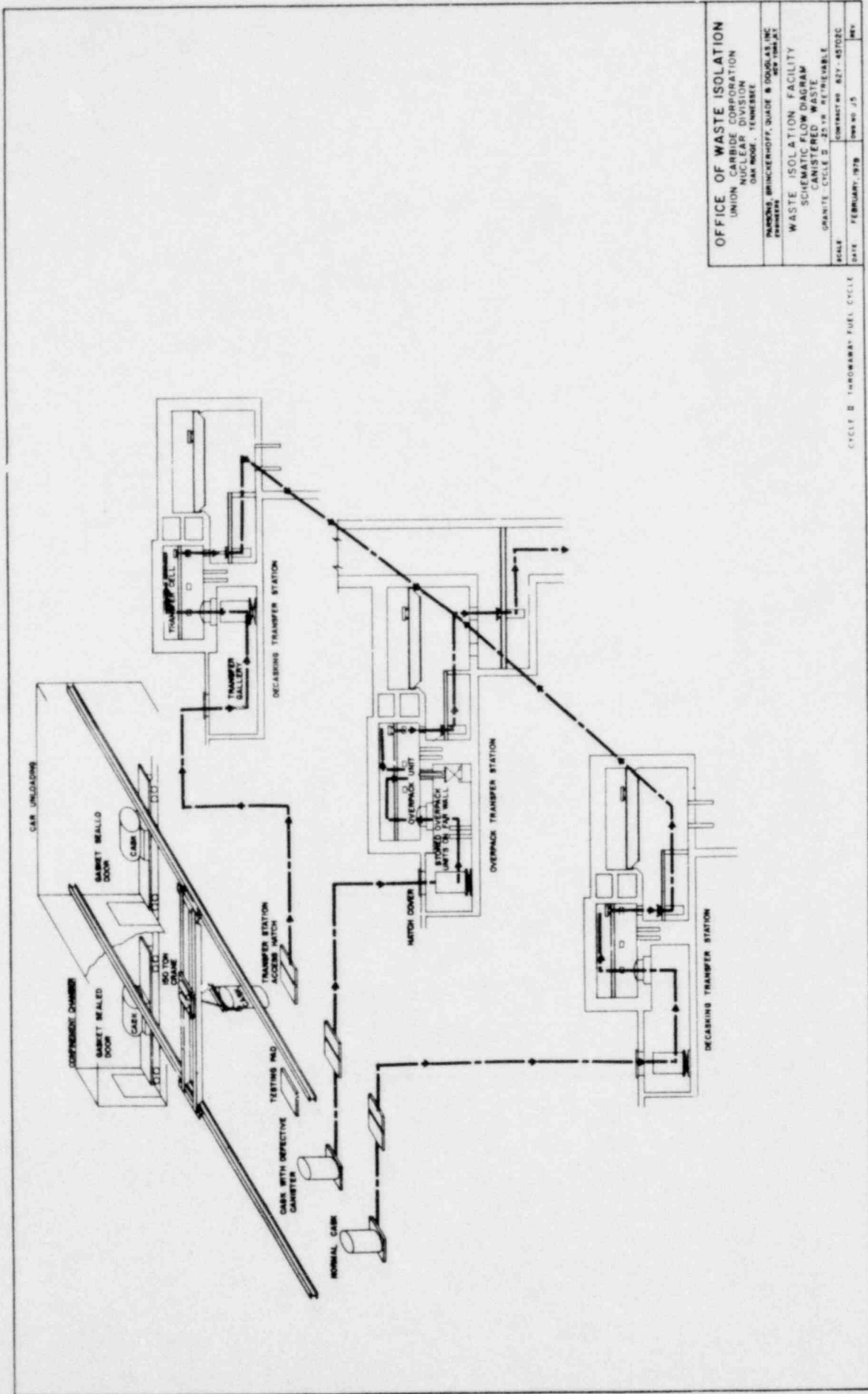
PAULSON, BRINCKEY-HOFF, QUADE & DOUGLAS INC.
 ARCHITECTS

WASTE ISOLATION FACILITY
 WASTE RECEIVING BLDG.

SCALE: 1/8" = 1'-0"
 DATE: FEBRUARY, 1978

CONTRACT NO. 82-0708C
 SHEET NO. 1A
 REV.

CYCLE 2 THRUWAY FUEL CYCLE

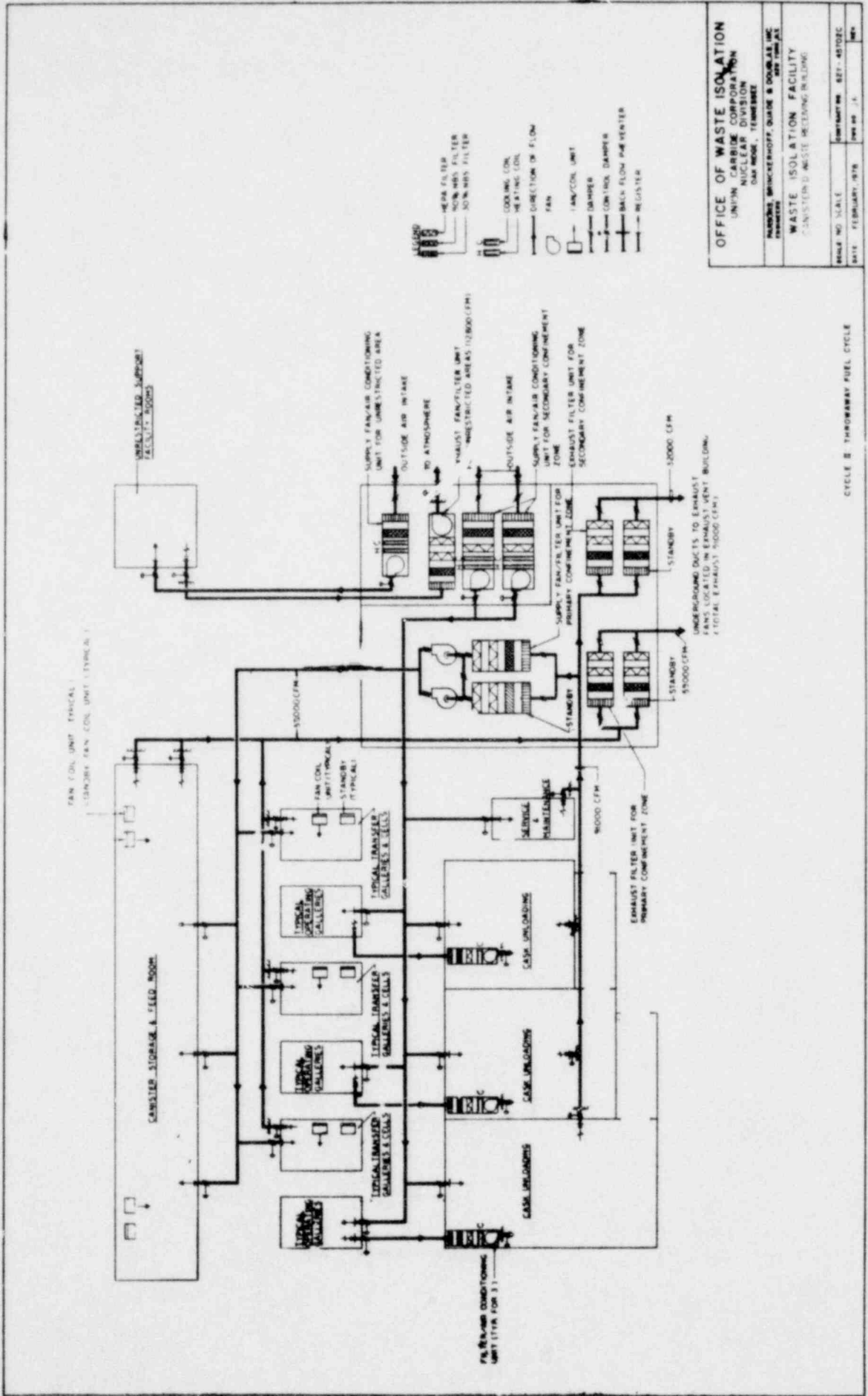


OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 400 NORTH ZEEB ROAD
 PITTSBURGH, PENNSYLVANIA 15224

WASTE ISOLATION FACILITY
 SCHEMATIC FLOW DIAGRAM
 CANISTERED WASTE
 GRANITE CYCLE 3 2519 REVISEBLE

SCALE CONTRACT NO. 827-45102C
 DATE FEBRUARY, 1979 DWG NO. J5 REV

CYCLE 3 THROUGHOUT FUEL CYCLE

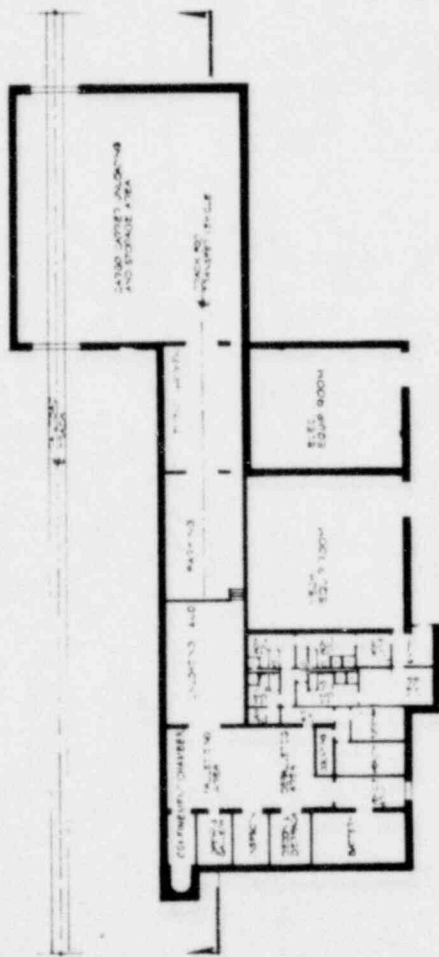


OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 ONE MOORE, TENNESSEE

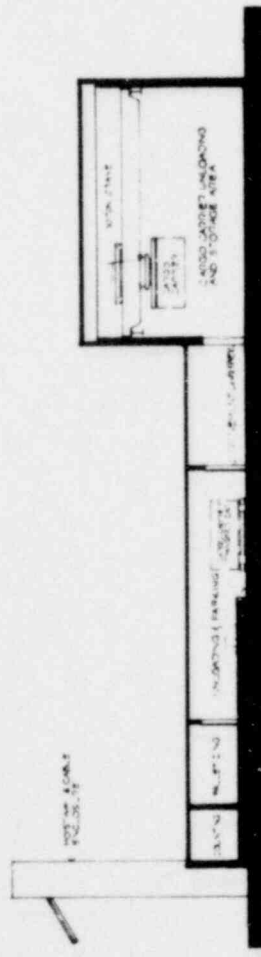
WASTE ISOLATION FACILITY
 CASK UNLOADING RECEIVING BUILDING

PROJECT NO. 1000
 DATE: FEBRUARY, 1978
 DRAWING NO. 1000-1000
 SHEET NO. 1000-1000

CYCLE II THROUGHWAY FUEL CYCLE



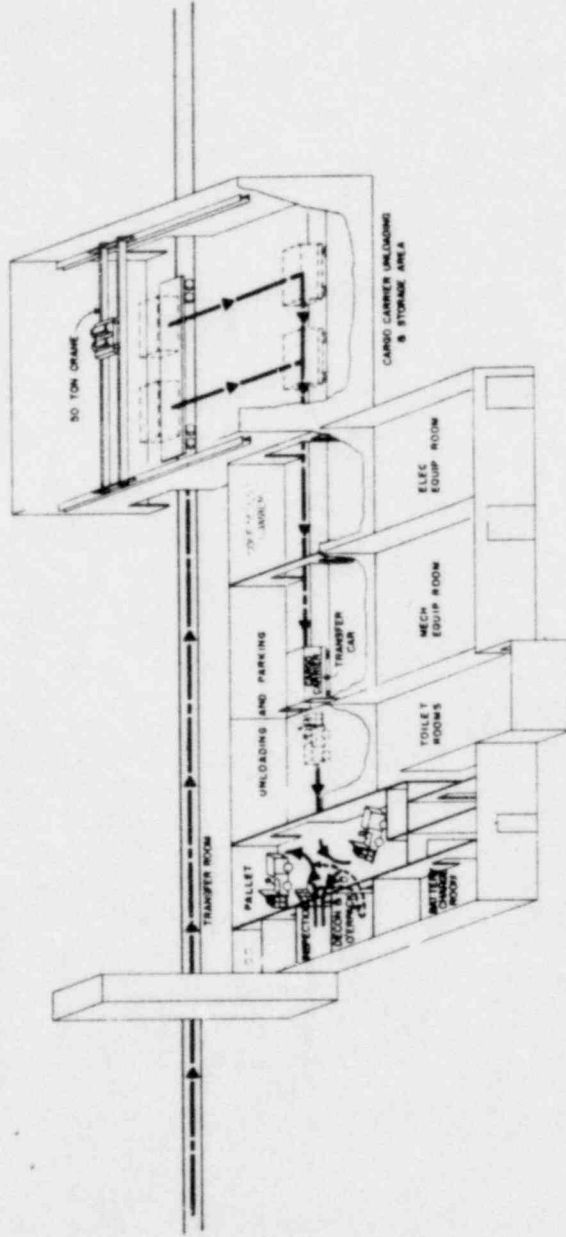
Ground Floor Plan



Section

OFFICE OF WASTE ISOLATION	
UNION CARBIDE CORPORATION	
NUCLEAR DIVISION	
OAK RIDGE, TENNESSEE	
PARSONS BRINCKERHOFF, QUAIL & DOUGLAS, INC.	
MEMPHIS, TENNESSEE	
WASTE ISOLATION FACILITY	
LOW LEVEL WASTE RECEIVING BUILDING	
GROUND FLOOR PLAN AND SECTION	
DRAWING NO. 651-45102C	
SCALE	
DATE	FEBRUARY 1978
DRAWN BY	17

CYCLE E THROUGHWAY FUEL CYCLE



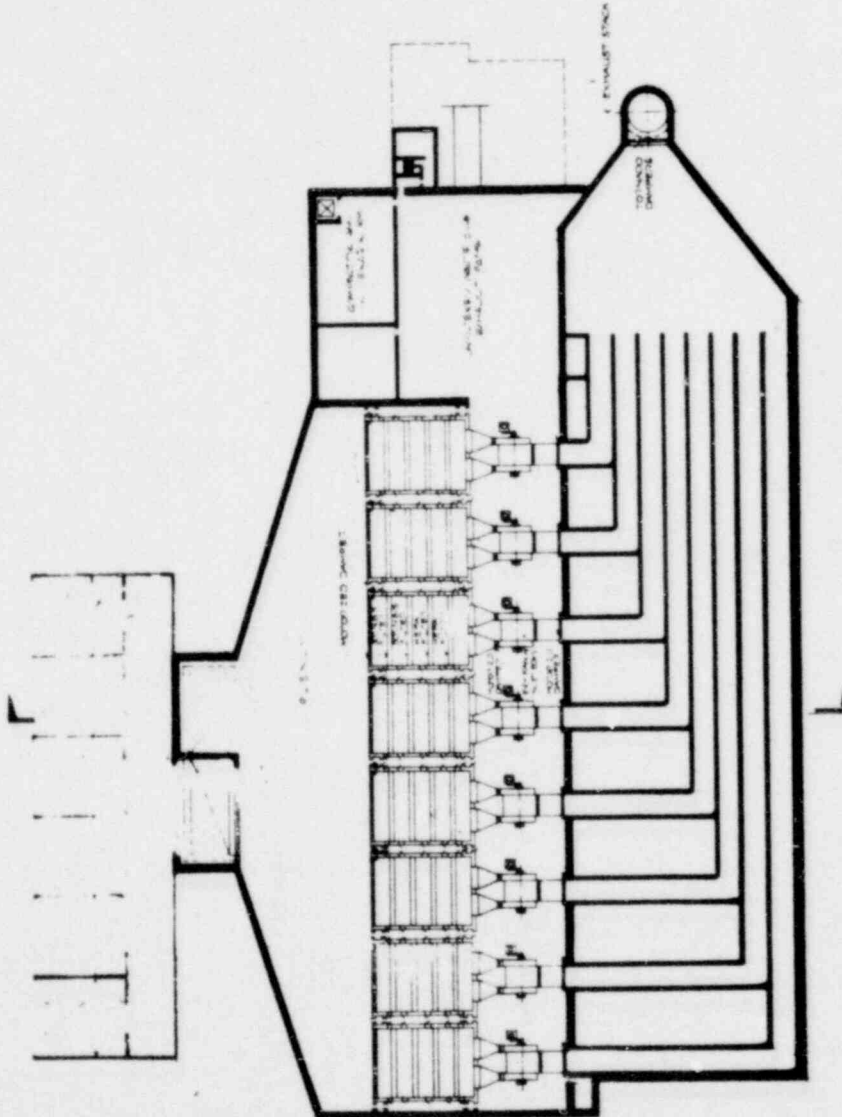
OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 OAK RIDGE, TENNESSEE

PARSONS BRINCKERHOFF, SHAPIRO & DOUGLAS, INC.
 ENGINEERS
 1000 AVENUE OF THE STARS
 WASHINGTON, D.C. 20004

WASTE ISOLATION FACILITY
 SCHEMATIC FLOW DIAGRAM
 LOW LEVEL WASTE (LLW) BUILDING
 CYCLE II - THROUGHWAY

SCALE: NONE
 DATE: FEBRUARY, 1978
 DRAWING NO. 4571-45702C
 SHEET NO. 9
 OF 9

CYCLE II THROUGHWAY FUEL CYCLE

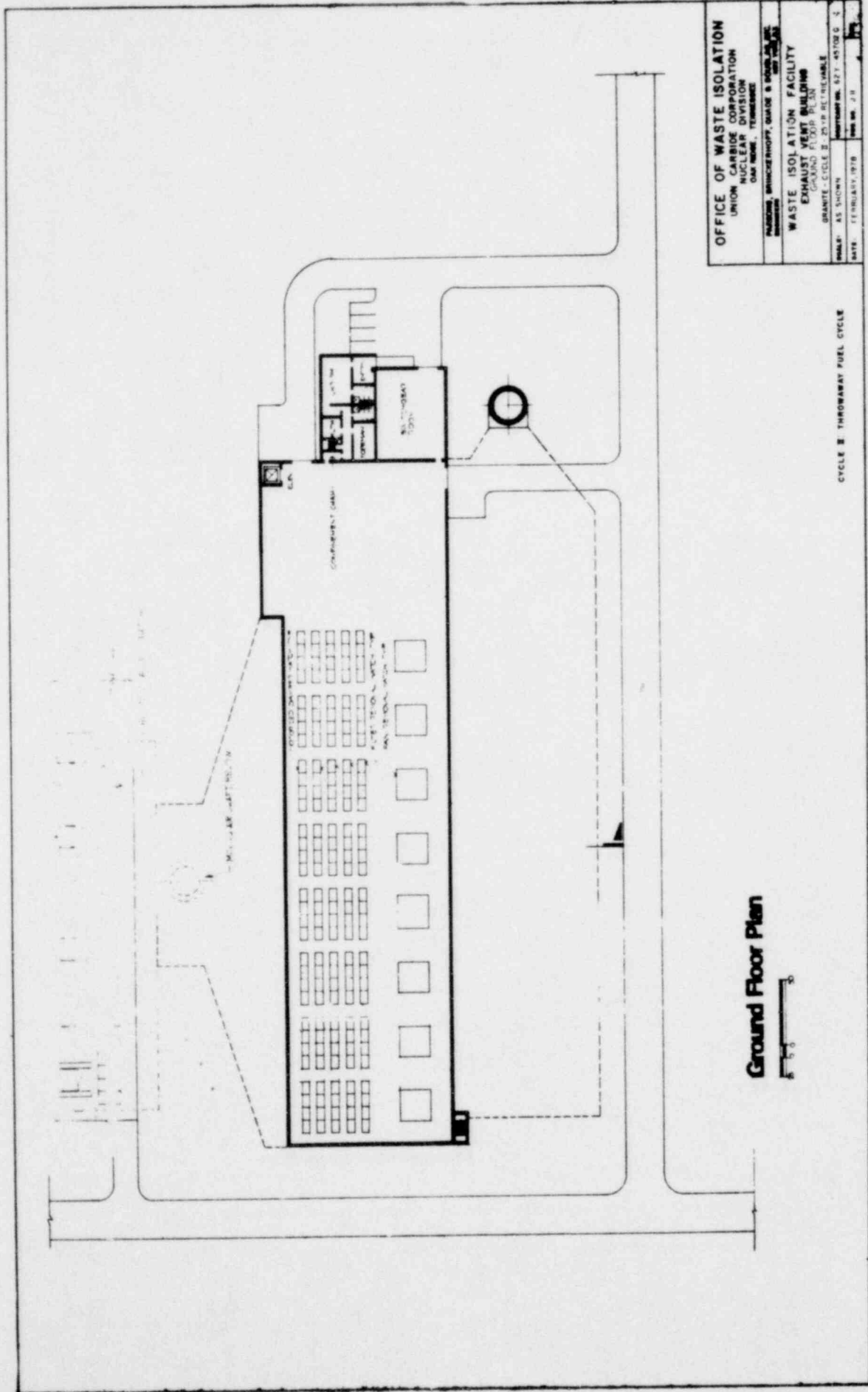


OFFICE OF WASTE ISOLATION	
UNION CARBIDE CORPORATION NUCLEAR DIVISION (MAY 1968) - TENNESSEE	
PLANNING, BRUNNENHOFF, QUADRE & DOUGLAS, INC. MEMPHIS, TENNESSEE	
WASTE ISOLATION FACILITY	
EXHAUST VENT BUILDING	
DRAWN BY: [Name]	
CHECKED BY: [Name]	
SCALE: AS SHOWN	CONTRACT NO. 62Y-4010Z-C
DATE: FEBRUARY 1978	APP. NO. 110
	REV.

Basement Plan



CYCLE II THROUGHWAY FUEL CYCLE



OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 OAK RIDGE, TENNESSEE

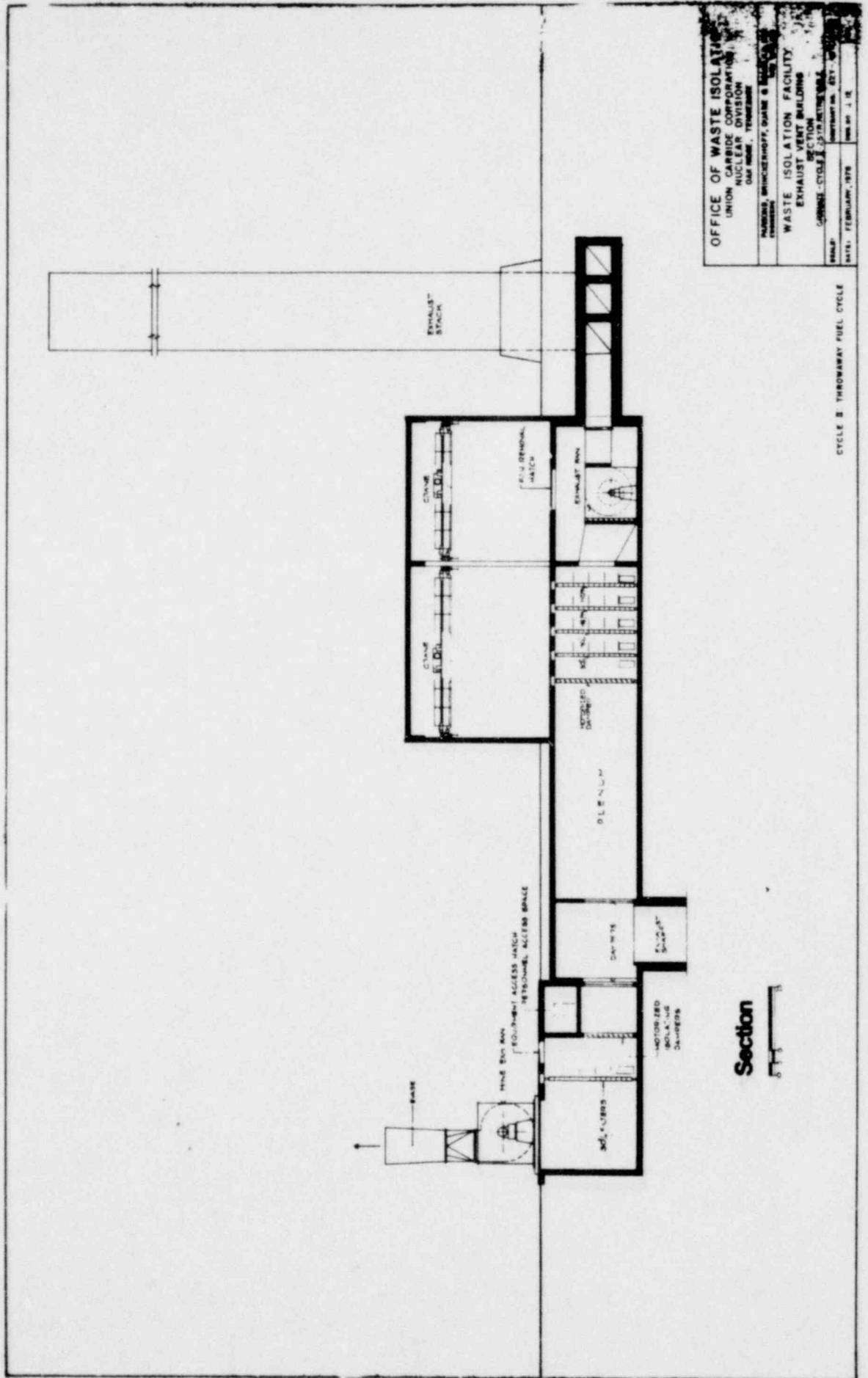
WASTE ISOLATION FACILITY
 EXHAUST VENT BUILDING
 GROUND FLOOR PLAN

GRANITE - CYCLE II - 2518 RELIEFABLE
 DRAWING NO. 577-45700-5
 DATE: FEBRUARY 1978
 SHEET NO. 2/3

Ground Floor Plan



CYCLE II THORNBAY FUEL CYCLE

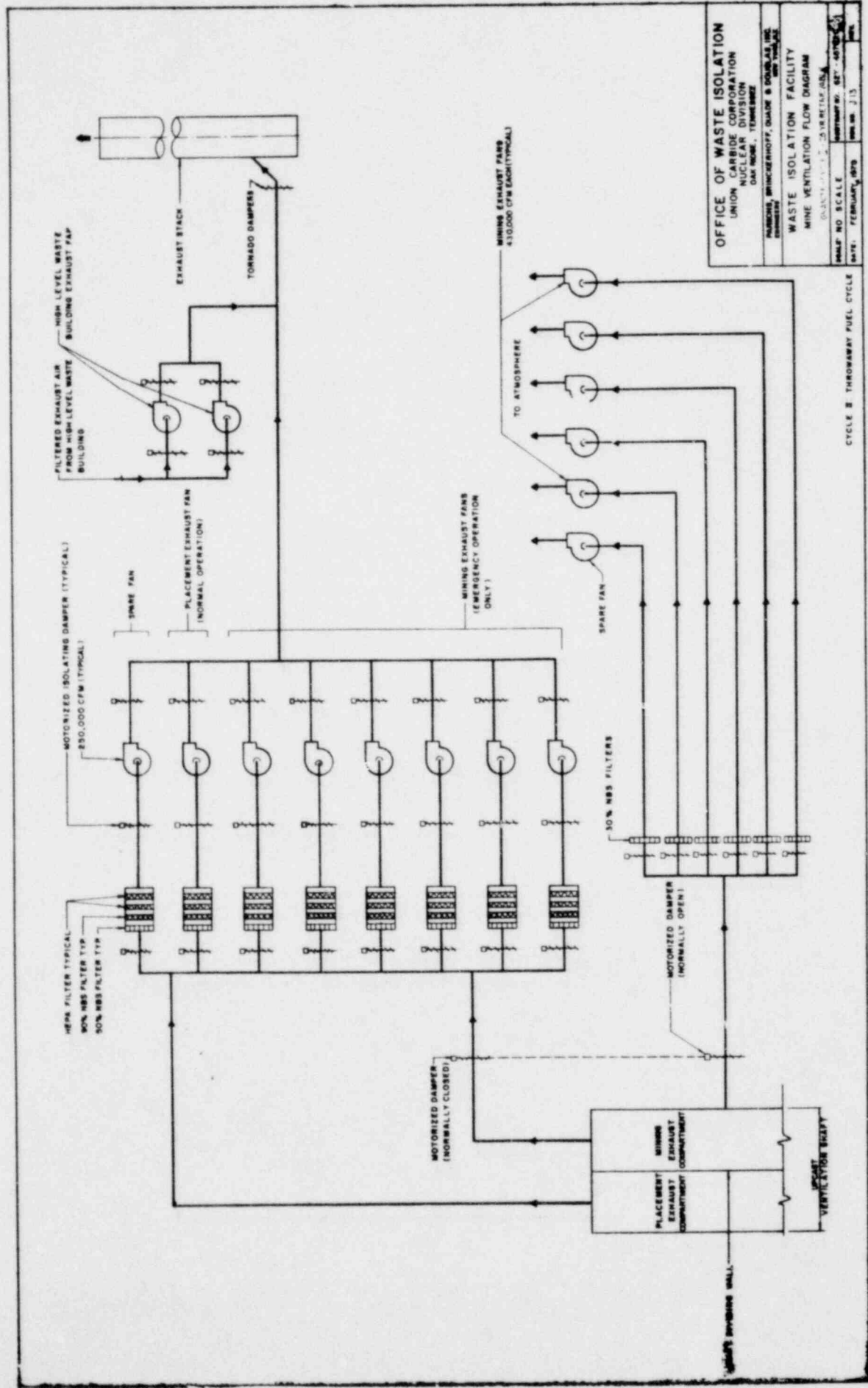


OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 OAK RIDGE, TENNESSEE

WASTE ISOLATION FACILITY
 EXHAUST VENT BUILDING
 SECTION
 CYCLE II THROWING FUEL

DESIGNED BY: BRUNNENBERG, QUAIN & ASSOCIATES
 DRAWN BY: J. R. [unclear]
 DATE: FEBRUARY, 1978

CYCLE II THROWING FUEL CYCLE



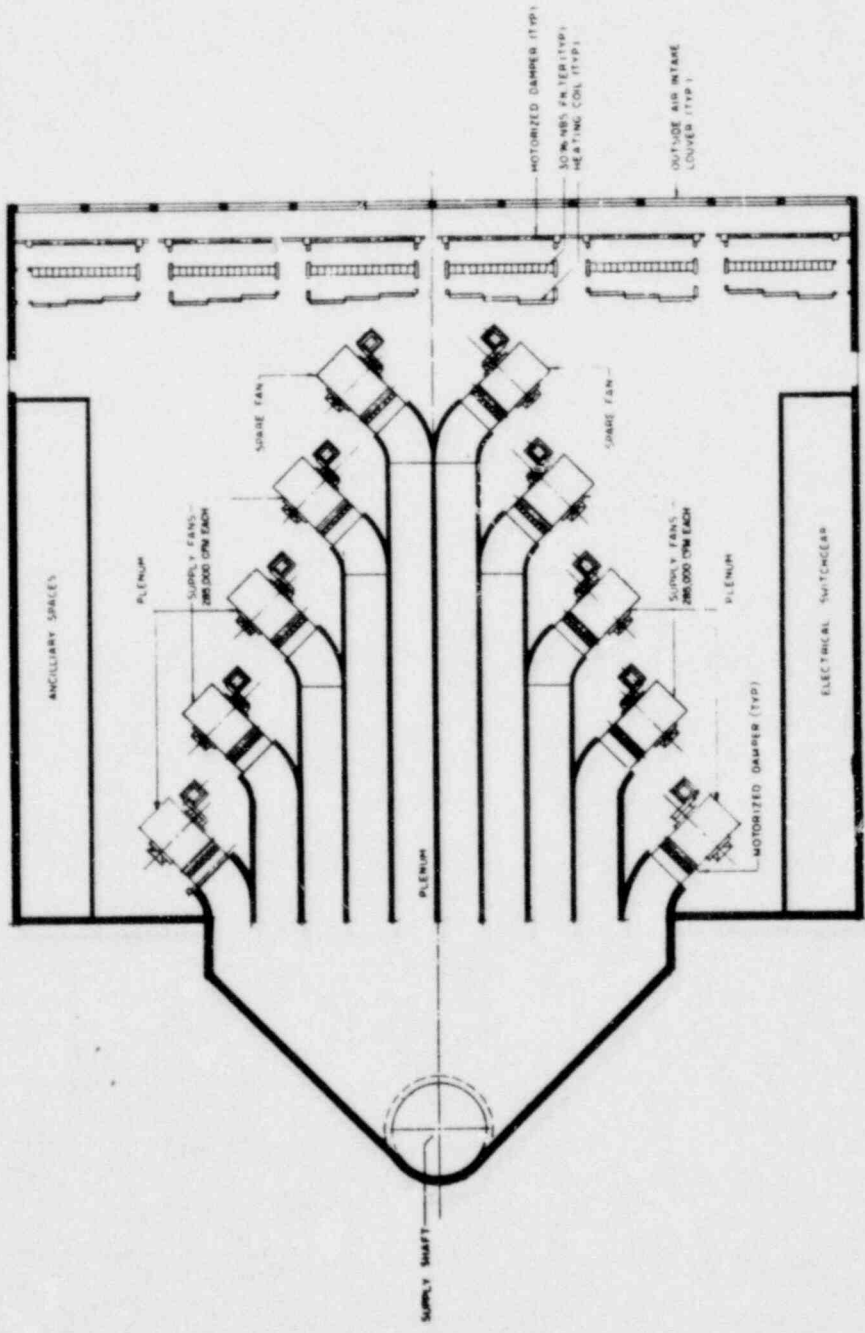
OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 DAY TOWER, TENNESSEE
 HAMMOND, WITTMERHOFF, OLSON & DOUGLASS, INC.
 ENGINEERS
WASTE ISOLATION FACILITY
MINE VENTILATION FLOW DIAGRAM
 SCALE: 1/4" = 1'-0" VERTICAL ONLY
 SHEET NO. 827-45705-1
 DATE: FEBRUARY, 1979
 DESIGNED BY: J. L. WILKINSON
 DRAWN BY: J. L. WILKINSON

CYCLE B THROWAWAY FUEL CYCLE

OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 DAY MODE - TENNESSEE

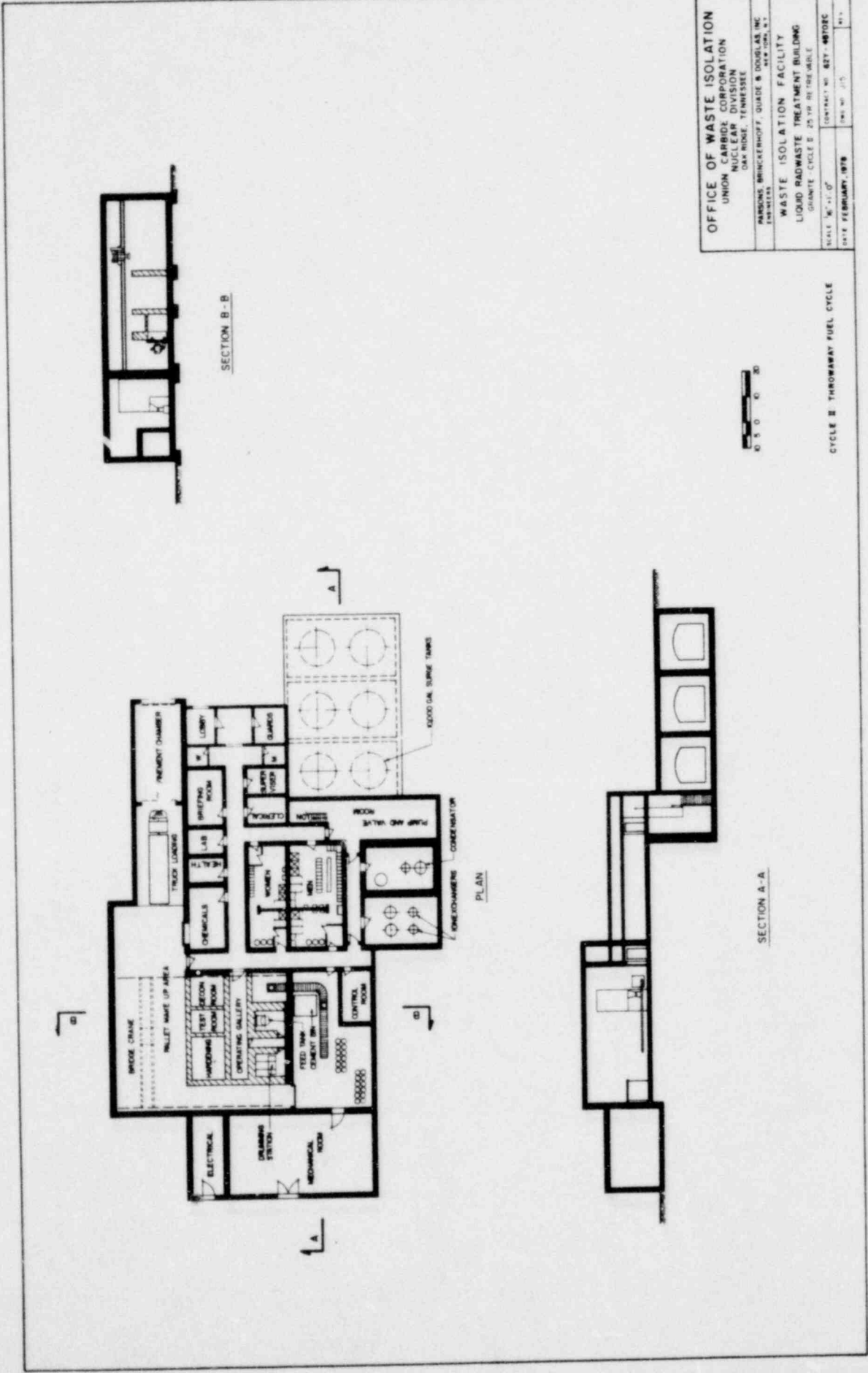
WASTE ISOLATION FACILITY
 4001 L. VICKY LANE, ZEPHYRUS, TENNESSEE
 PROJECT # 77022 B - 25 14.16.17.18.19.20.21.22.23.24.25.26.27.28.29.30.31.32.33.34.35.36.37.38.39.40.41.42.43.44.45.46.47.48.49.50.51.52.53.54.55.56.57.58.59.60.61.62.63.64.65.66.67.68.69.70.71.72.73.74.75.76.77.78.79.80.81.82.83.84.85.86.87.88.89.90.91.92.93.94.95.96.97.98.99.100

DATE FEBRUARY, 1978



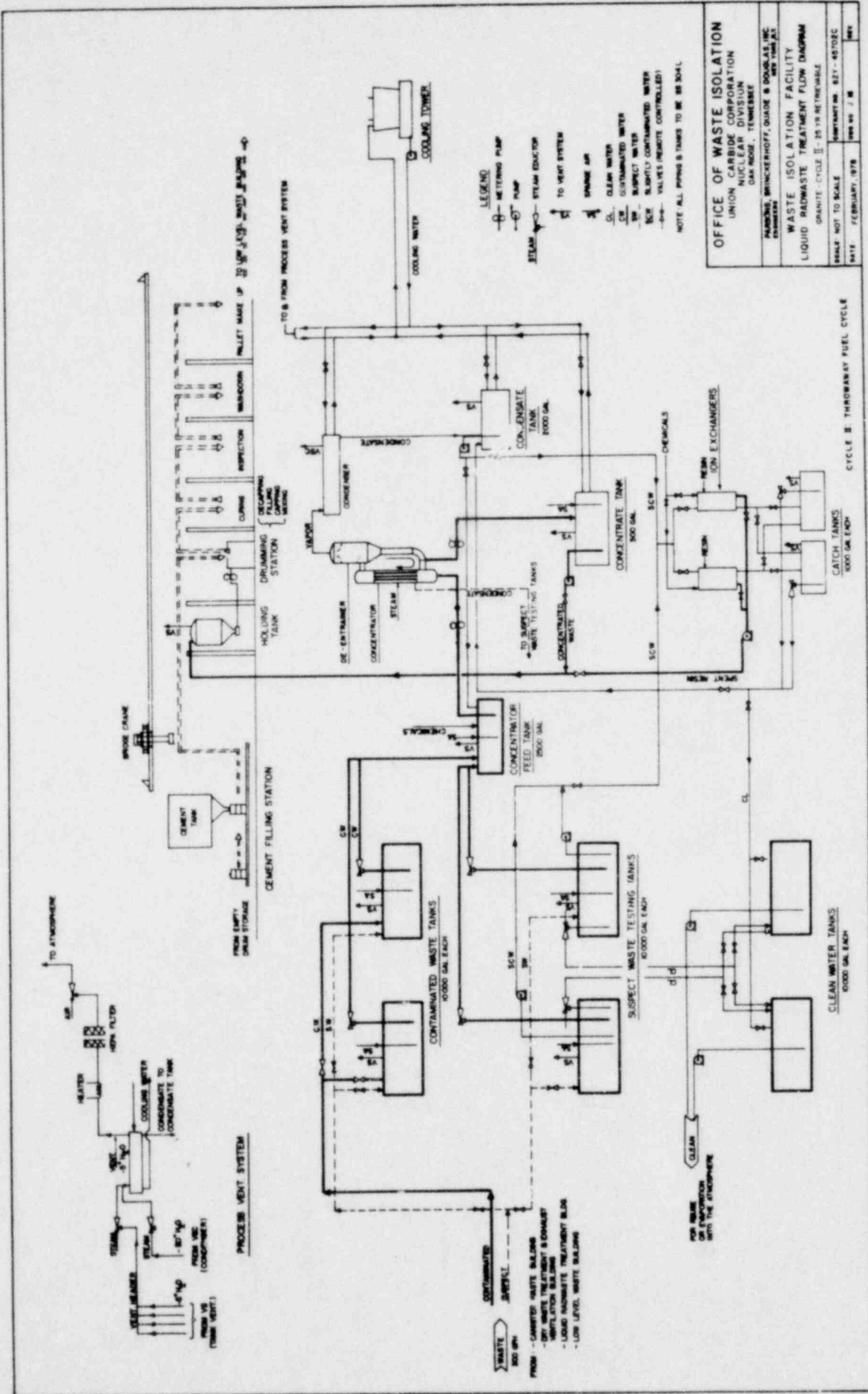
FLOOR PLAN
 0" = 25'

CYCLE B THRUWAY FUEL CYCLE



OFFICE OF WASTE ISOLATION	
UNION CARBIDE CORPORATION	
NUCLEAR DIVISION	
DAVIDSON, TENNESSEE	
PARSONS BRINCKERHOFF, QUADRE & DODD, INC.	
ENGINEERS	
WASTE ISOLATION FACILITY	
LIQUID RADWASTE TREATMENT BUILDING	
GRANITE CYCLE 2, 25 YR RETRIEVABLE	
SCALE: 1/8" = 1'-0"	CONTRACT NO. 827-48702C
DATE: FEBRUARY, 1979	DWG. NO. 115

CYCLE 2 THROUGHWAY FUEL CYCLE



LEGEND

- PUMP
- VALVE
- TANK
- HEATER
- CONDENSATE TANK
- COOLING WATER
- STEAM
- TO VENT SYSTEM
- SPARE AIR
- CLEAN WATER
- SUSPECTED WASTE
- SUSPECT WATER
- SUSPECT CONTAMINATED WATER
- ICE
- VALVES (REMOTE CONTROLLED)

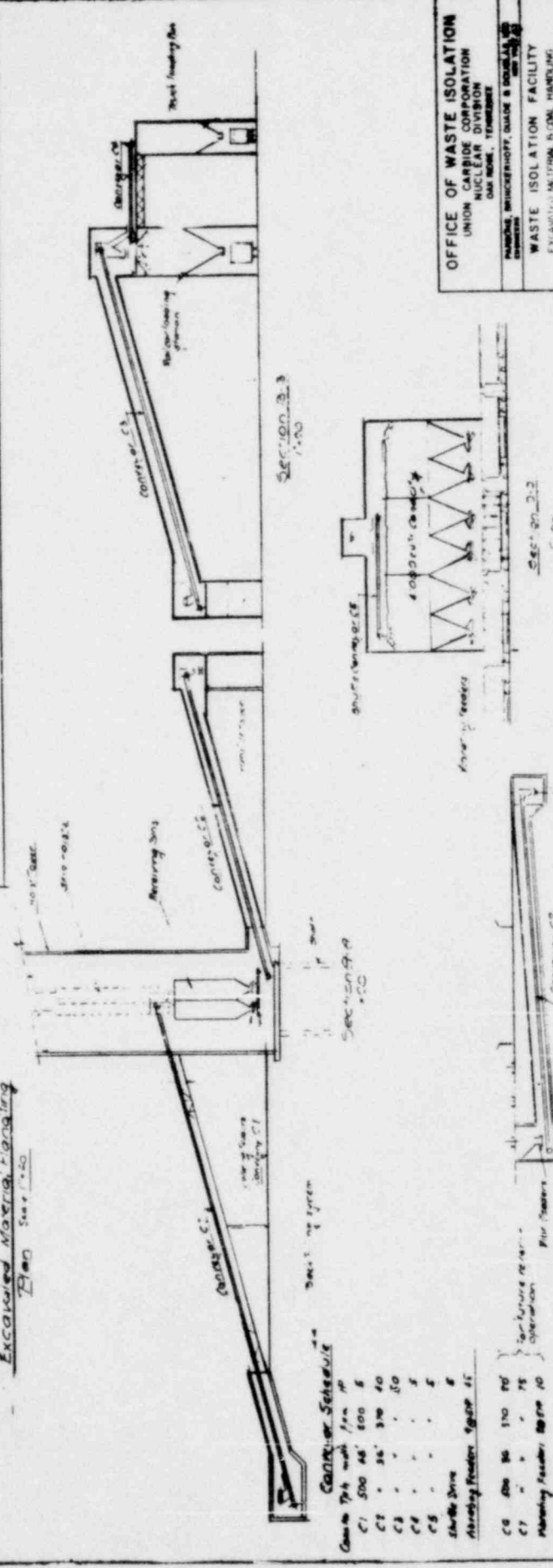
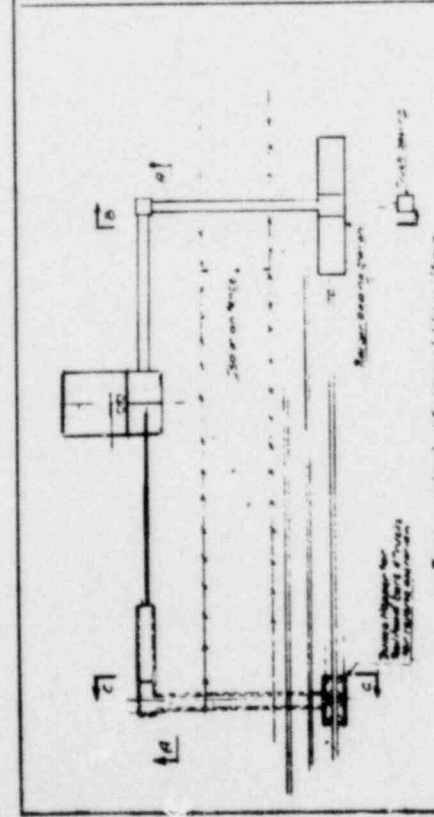
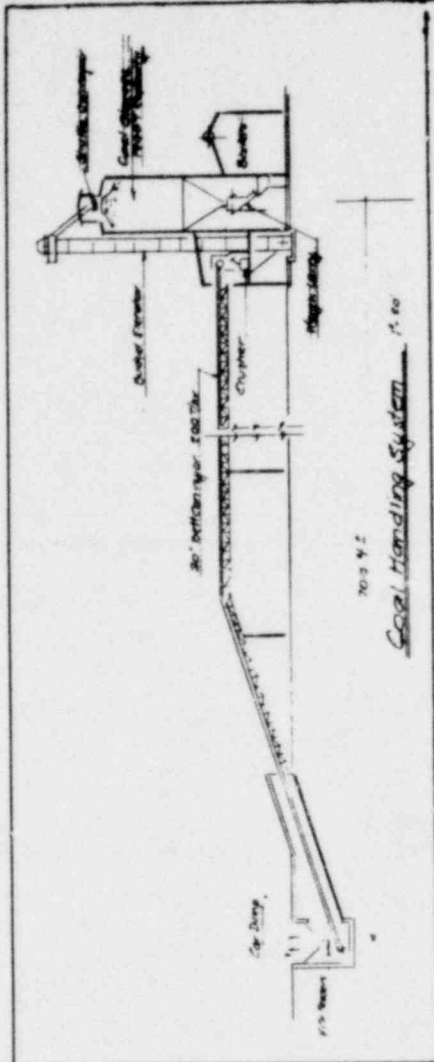
NOTE: ALL PIPING & TANKS TO BE 36" DIA.

OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 1000 W. 10TH AVENUE
 DAYTON, OHIO 45424

WASTE ISOLATION FACILITY
 LIQUID RADWASTE TREATMENT FLOW DIAGRAM
 GRANITE - CYCLE II - 25 YR RETRIEVABLE

SCALE: NOT TO SCALE
 DATE: FEBRUARY, 1978
 DRAWING NO.: 827-45702C
 SHEET NO.: 7 OF 8

CYCLE II THORNBERRY FUEL CYCLE



Conveyor Schedule

Conveyer	74	with	17m	10
C1	500	44'	100	5
C2	-	36'	370	40
C3	-	-	-	10
C4	-	-	-	5
C5	-	-	-	5
C6	400	36'	170	10
C7	-	-	-	75
Material	Feeder	1000	10	

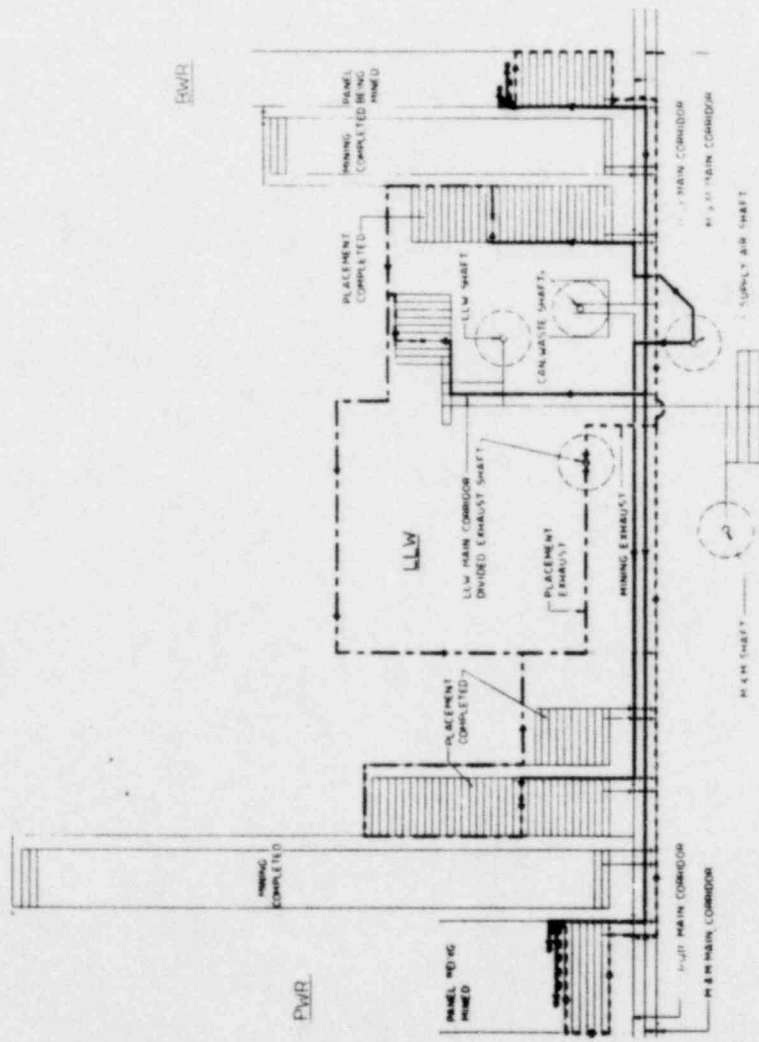
operation 10

OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 OAK RIDGE, TENNESSEE

WASTE ISOLATION FACILITY
 EXHAUSTED MATERIAL & FUEL HANDLING
 DRAWING CYCLE 1-23 IN THE FILE

DATE: FEBRUARY, 1978
 DRAWING NO.: 100-100-100-100
 SHEET NO.: 100-100-100-100

CYCLE 10 - THROUGHWAY FUEL CYCLE



- LEGEND**
- PLACEMENT EXHAUST AIR
 - - - MINING EXHAUST AIR
 - PLACEMENT & MINING SUPPLY AIR
 - PLACEMENT IN PROGRESS
 - MINING IN PROGRESS
 - ROOM OR CORRIDOR SEALED

OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 ONE MOORE, TEBESSEE

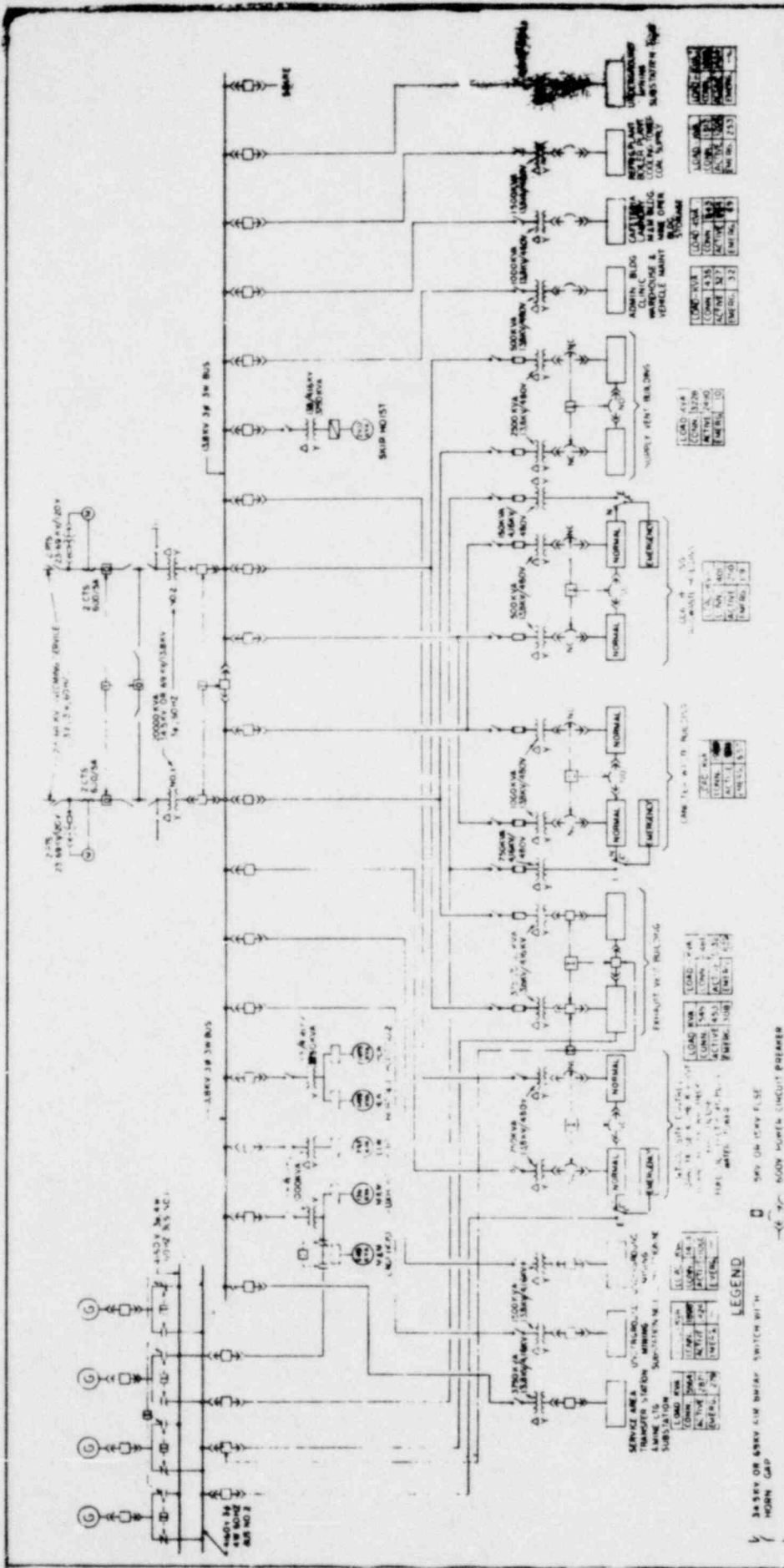
WASTE ISOLATION FACILITY
 MINE VENTILATION PLAN

DESIGNED BY: [Name]
 DRAWN BY: [Name]
 CHECKED BY: [Name]

DATE: FEBRUARY, 1978
 SHEET NO: 627-45702C
 OF 217

PARTIAL PLAN
MINING AND PLACEMENT VENTILATION
 PART, CYCLE B LAYOUT SECTION - LEVELS 1 & 2 (PARTIAL)

CYCLE B THROUGHWAY FUEL CYCLE



OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 ONE MOORE TERRACE
 PITTSBURGH, PENNSYLVANIA 15223

WASTE ISOLATION FACILITY
 ELECTRICAL ONE LINE DIAGRAM
 GRANITE - CYCLE B - 20 YEAR RETRIEVABLE

SCALE: NONE
 DATE: FEBRUARY, 1978
 DRAWING NO. 100-10-100

TOTAL FACILITY LOAD

LOAD KVA	1500
LOAD KW	1000
ACTIVE KW	700
EMERGENCY KW	150

LOAD DATA

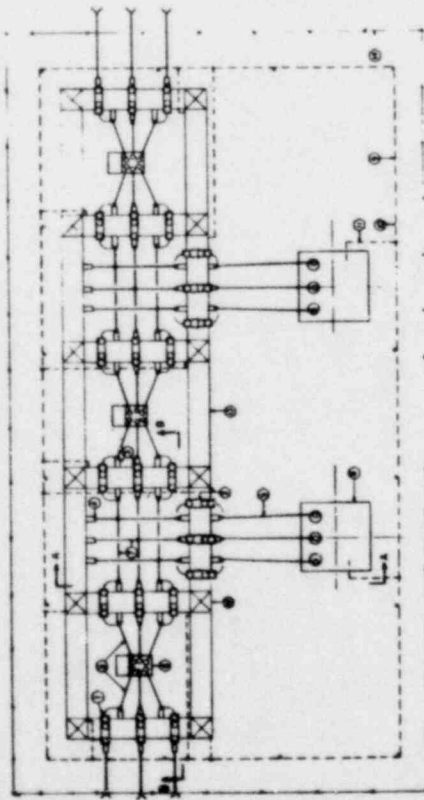
LOAD KVA	1500
LOAD KW	1000
ACTIVE KW	700
EMERGENCY KW	150

LOAD DATA

LOAD KVA	1500
LOAD KW	1000
ACTIVE KW	700
EMERGENCY KW	150

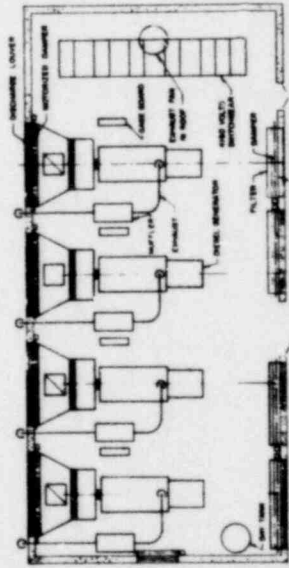
- LEGEND**
- 34.5KV OR 69KV AIR BREAK SWITCH WITH HORN GAP
 - 34.5 KV OR 69 KV OUTDOOR ISOLATING SWITCH
 - 24.5KV OR 69KV OUTDOOR 8.0L CIRCUIT BREAKER
 - LIGHTNING ARRESTER
 - TRANSFORMER
 - 34.5KV OR 15KV POWER CIRCUIT BREAKER INDOOR
 - 34.5KV OR 15KV DISCONNECT SWITCH INDOOR
 - 34.5KV OR 15KV FUSE
 - 600V POWER CIRCUIT BREAKER
 - AUTOMATIC TRIP TRIP SWITCH
 - MOTOR
 - GENERATOR
 - MOTOR CONTROLLER
 - ELECTRICAL INTERLOCK
 - N/C NORMALLY CLOSED
 - N/O NORMALLY OPEN
 - 3 POINT SWITCH PAIR
 - POTENTIAL TRANSFORMER

CYCLE B - THERMAPY FUEL CYCLE

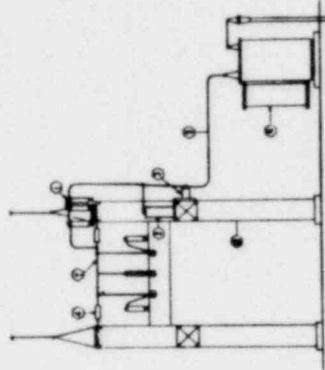


SUB-STATION PLAN

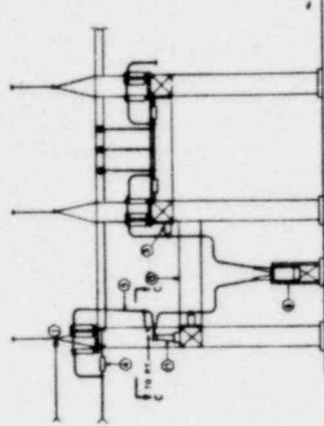
ITEM	QUANTITY	DESCRIPTION
1	8	600 AMP BUSBARS TYPE 43
2	8	1000 AMP BUSBARS TYPE 43
3	8	1000 AMP BUSBARS TYPE 43
4	24	600 AMP BUSBARS TYPE 43
5	24	1000 AMP BUSBARS TYPE 43
6	3	1000 AMP BUSBARS TYPE 43
7	1	1000 AMP BUSBARS TYPE 43
8	1	1000 AMP BUSBARS TYPE 43
9	1	1000 AMP BUSBARS TYPE 43
10	1	1000 AMP BUSBARS TYPE 43
11	1	1000 AMP BUSBARS TYPE 43
12	1	1000 AMP BUSBARS TYPE 43
13	1	1000 AMP BUSBARS TYPE 43
14	1	1000 AMP BUSBARS TYPE 43
15	1	1000 AMP BUSBARS TYPE 43
16	1	1000 AMP BUSBARS TYPE 43



STANDBY GENERATOR



SECTION A-A



SECTION B-B



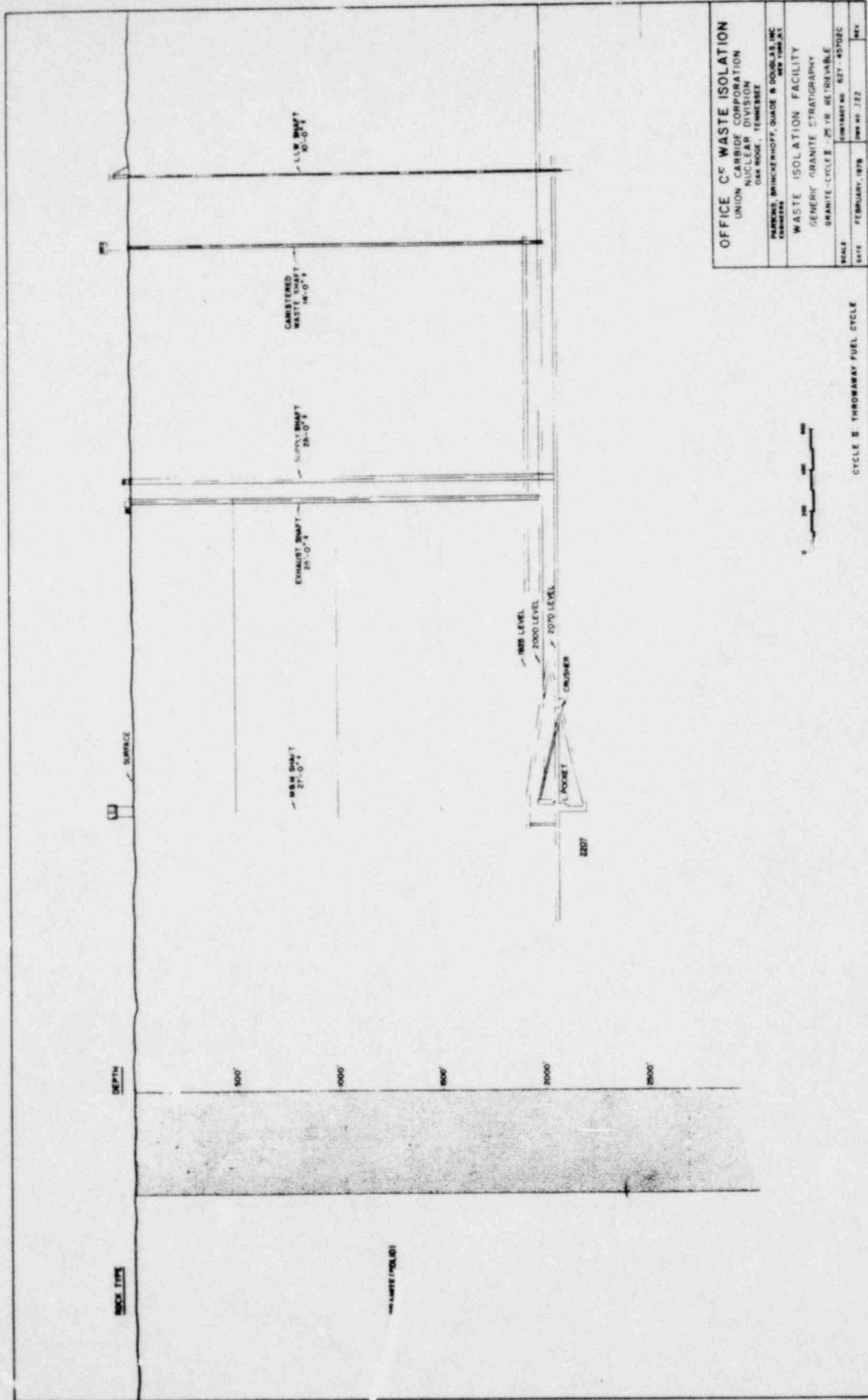
SECTION C-C

OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 OAK RIDGE, TENNESSEE

WASTE ISOLATION FACILITY
 WITH ELECTRICAL SUBSTATION
 AND STANDBY GENERATOR

TABLE
 DATE: FEBRUARY, 1978
 SHEET NO. 2/1
 REV.

CYCLE II THROUGHWAY FUEL CYCLE



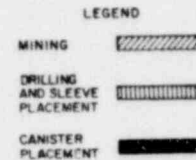
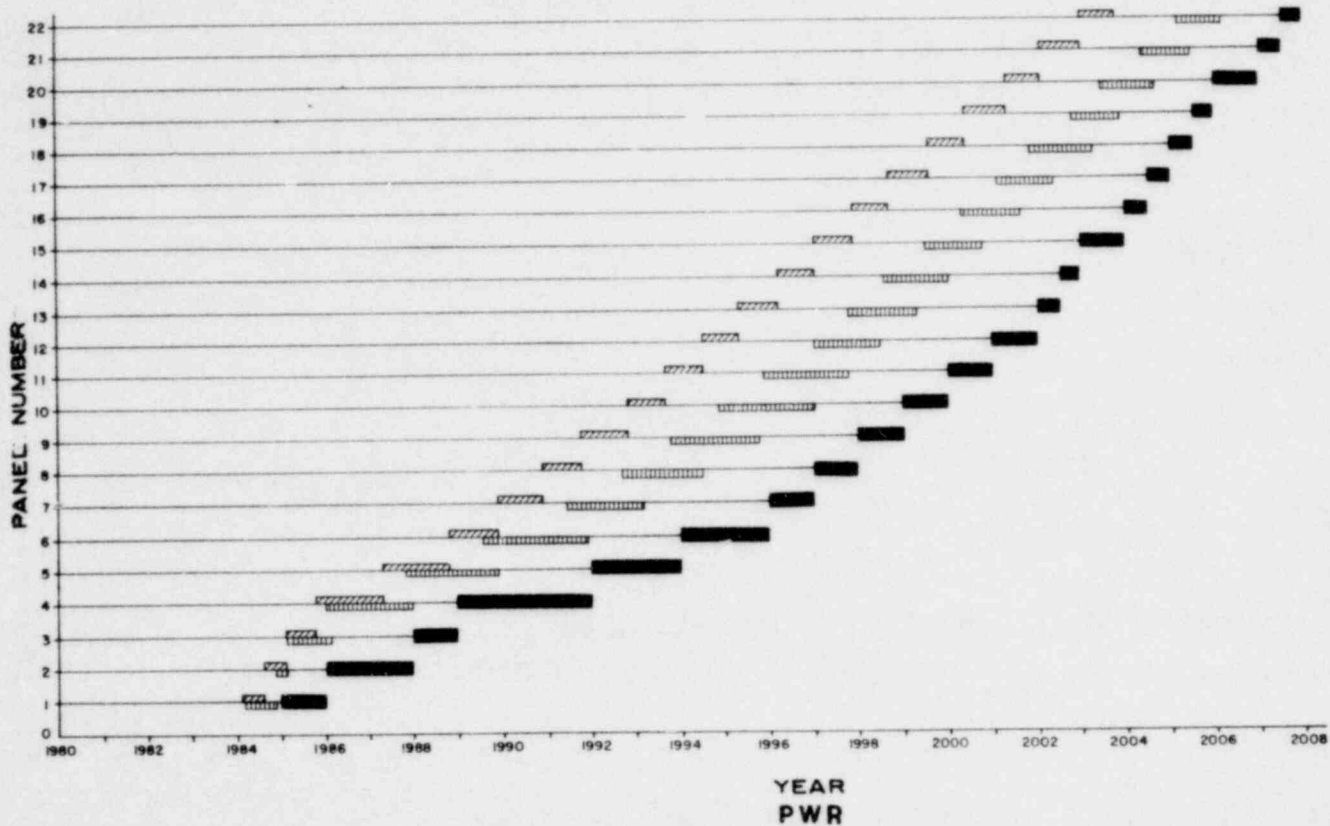
OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 OAK RIDGE, TENNESSEE
 PARSONS BRINCKERHOFF, GAUGE & DOUGLAS, INC.
 ENGINEERS
 WASTE ISOLATION FACILITY
 GENERIC GRANITE STRATIGRAPHY
 GRANITE CYCLE B - 25 TR. RETRIEVABLE
 CONTRACT NO. 627-43702C
 SCALE: 1" = 100'

DATE: FEBRUARY, 1978
 DRAWING NO.: J22
 SHEET NO.: 147

CYCLE B THROAWAY FUEL CYCLE

MINING AND PLACEMENT SCHEDULE

GRANITE - CYCLE II - 25 YEARS RETRIEVABLE



OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 OAK RIDGE, TENNESSEE

PARSONS, BRINCKERHOFF, QUADE & DOUGLAS, INC.
 ENGINEERS
 NEW YORK, N.Y.

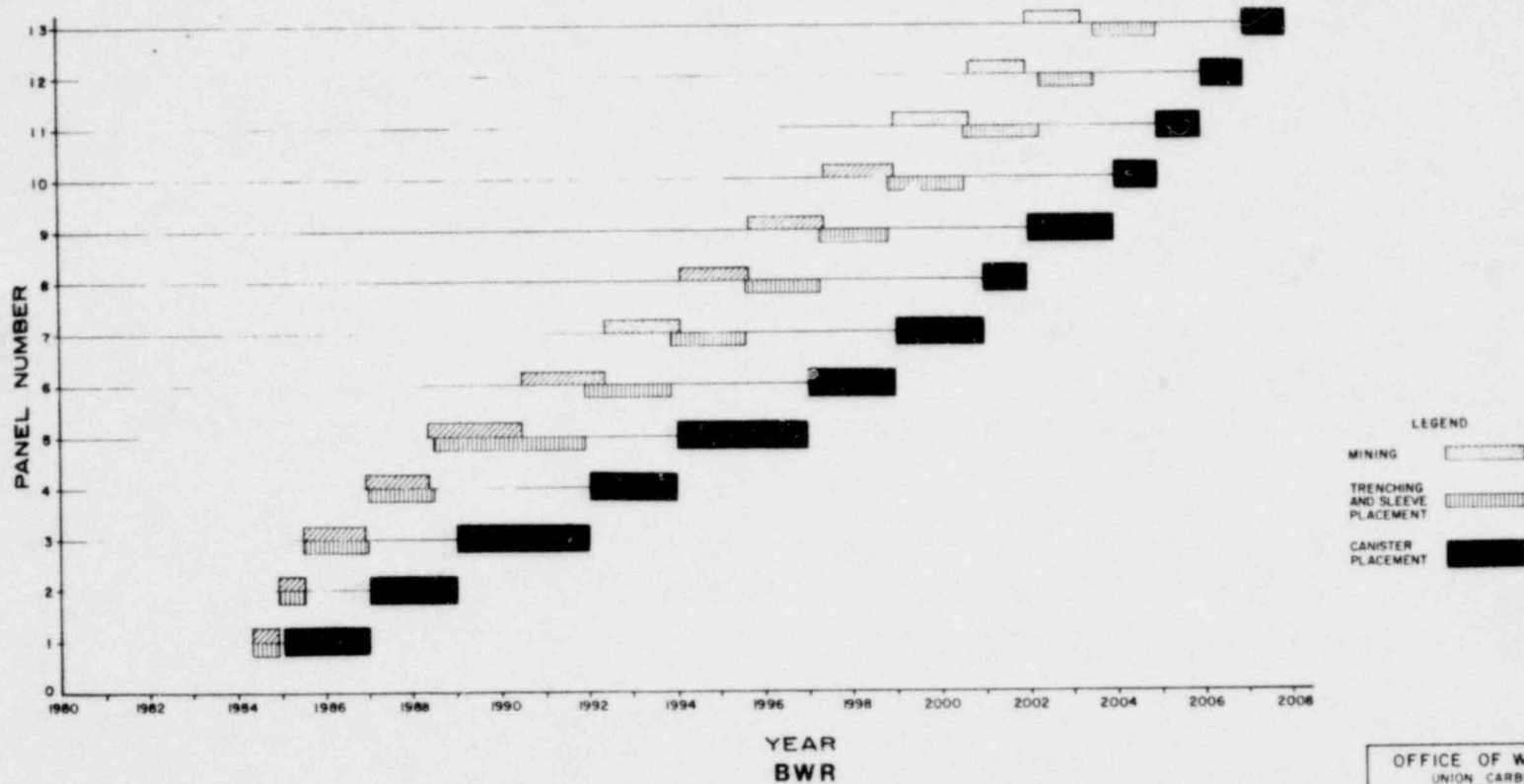
WASTE ISOLATION FACILITY
 PWR MINING AND PLACEMENT SCHEDULE
 GRANITE - CYCLE II - 25 YR RETRIEVABLE

SCALE	CONTRACT NO. 62Y-48702C
DATE FEBRUARY, 1978	DWG NO. J23 REV

CYCLE II THROAWAY FUEL CYCLE

MINING AND PLACEMENT SCHEDULE

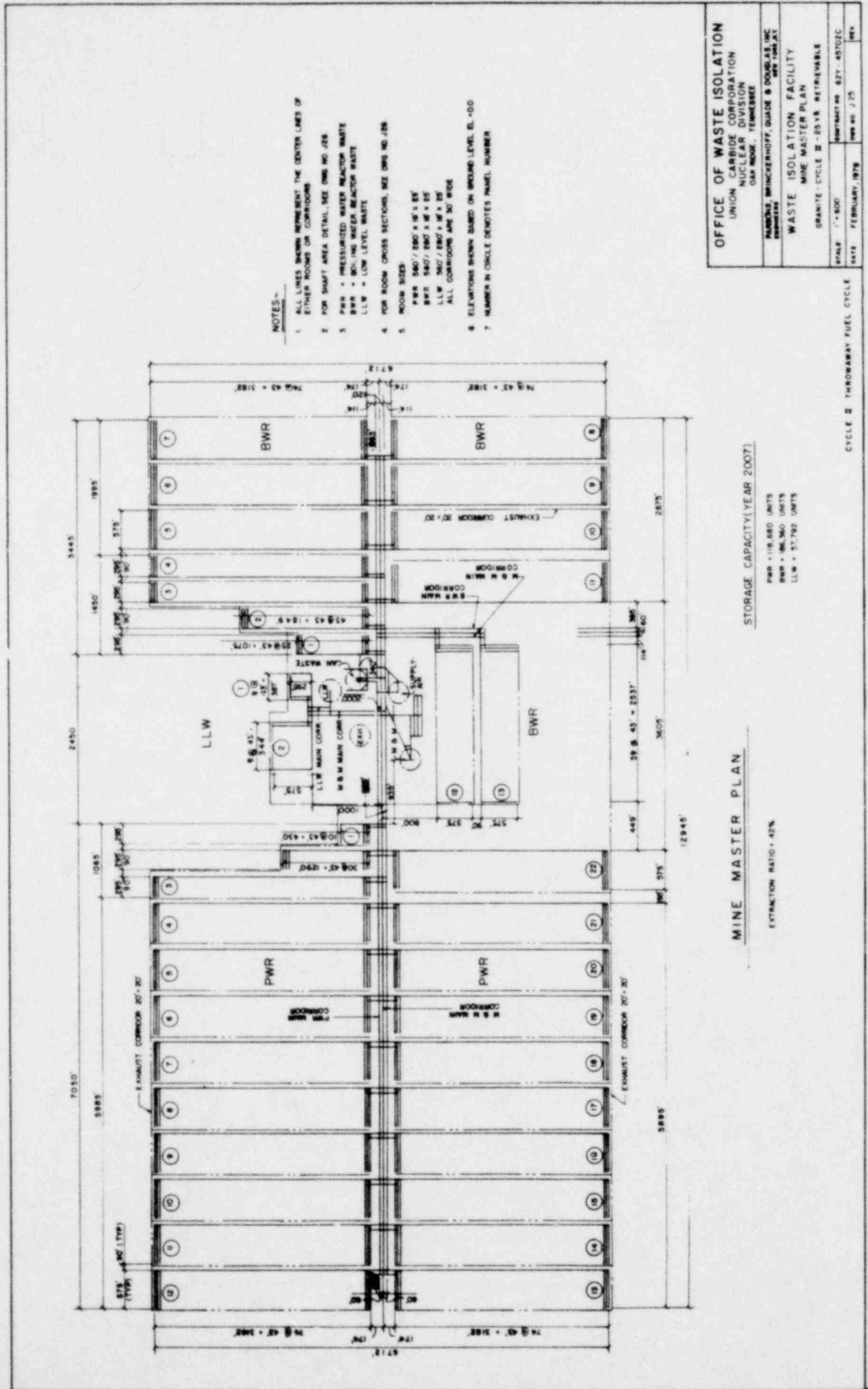
GRANITE - CYCLE II - 25 YEARS RETRIEVABLE



- LEGEND**
- MINING
 - TRENCHING AND SLEEVE PLACEMENT
 - CANISTER PLACEMENT

OFFICE OF WASTE ISOLATION UNION CARBIDE CORPORATION NUCLEAR DIVISION OAK RIDGE, TENNESSEE	
<small>PARKINS, BRINCKERHOFF, QUADE & DOUGLAS, INC. ENGINEERS NEW YORK, NY</small>	
WASTE ISOLATION FACILITY BWR MINING AND PLACEMENT SCHEDULE GRANITE - CYCLE II - 25 YR RETRIEVABLE	
SCALE	CONTRACT NO. 62Y-45702C
DATE: FEBRUARY, 1979	DWG NO. 224 REV

CYCLE II THROUWAY FULL CYCLE



NOTES-

1. ALL LINES SHOWING REPRESENT THE CENTER LINES OF EITHER ROOMS OR CORRIDORS
2. FOR SHAFT AREA DETAIL, SEE DWG NO. JEN
3. PWR - PRESSURIZED WATER REACTOR WASTE
BWR - BOREHOLE WASTE REACTOR WASTE
LLW - LOW LEVEL WASTE
4. FOR ROOM CROSS SECTIONS, SEE DWG NO. JEN
5. ROOM SIZES:
PWR 9'60" / 8'60" x 12' x 8'
BWR 9'60" / 8'60" x 12' x 8'
LLW 9'60" / 8'60" x 12' x 8'
ALL CORRIDORS ARE 30' WIDE
6. ELEVATIONS SHOWN BASED ON BOUNDARY LEVEL EL. +100
7. NUMBER IN CIRCLE DENOTES PANEL NUMBER

OFFICE OF WASTE ISOLATION	
UNION CARBIDE CORPORATION NUCLEAR DIVISION DAY ROOM, FEMERSET	
PUMPH, WINCHESTER, QUAD 8 DOUBLE, NC DESIGN/PLN	
WASTE ISOLATION FACILITY	
MINE MASTER PLAN	
GRANITE - CYCLE II - 85 YR RETRIEVABLE	
SCALE: 1" = 60'	DATE: FEBRUARY, 1978
PROJECT NO: 871-45702C	REV: 1

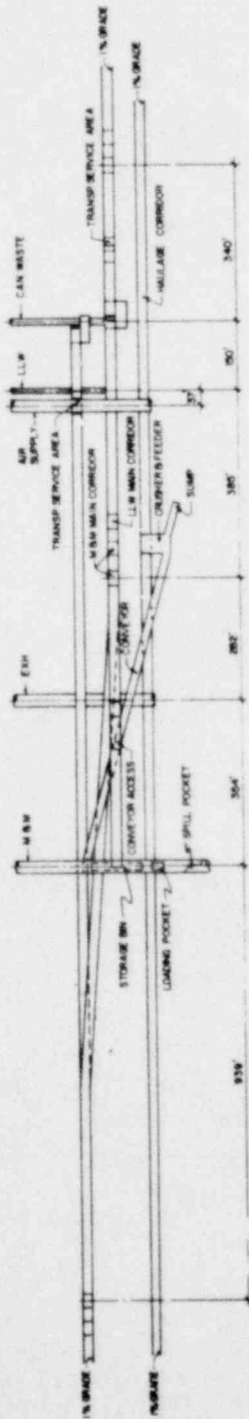
STORAGE CAPACITY (YEAR 2007):

- PWR - 118,680 UNITS
- BWR - 86,360 UNITS
- LLW - 27,780 UNITS

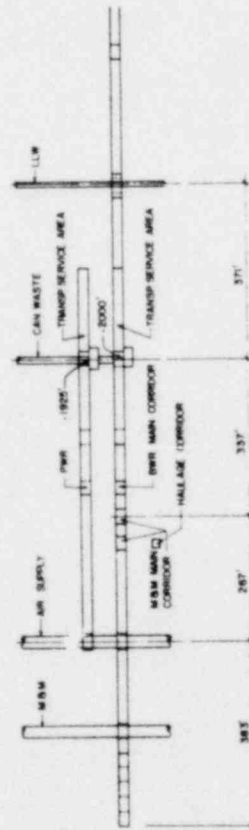
MINE MASTER PLAN

EXTRACTION RATIO - 42%

CYCLE II THROUGHWAY FUEL CYCLE

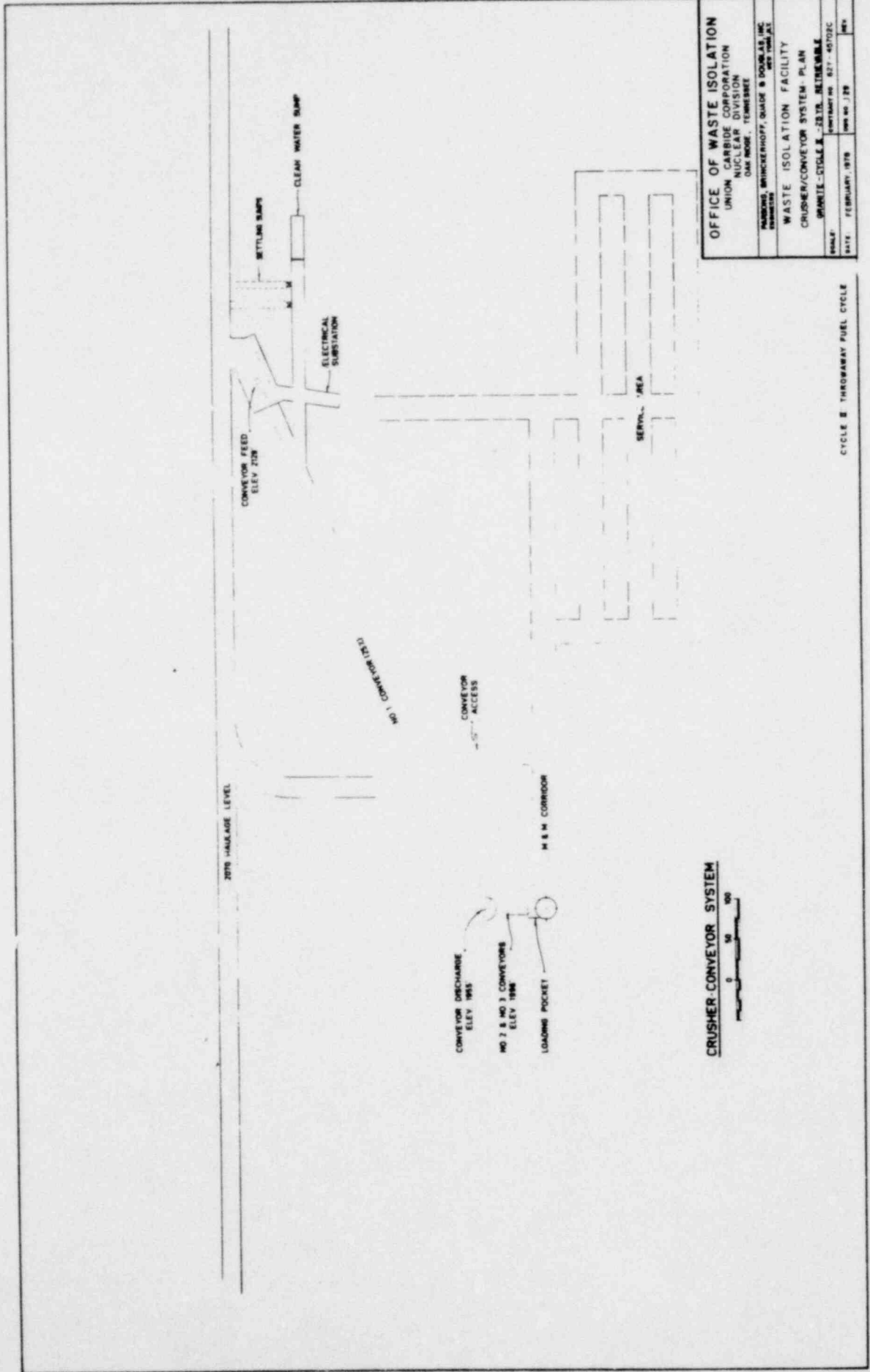


SECTION A-A



SECTION B-B

OFFICE OF WASTE ISOLATION	
UNION CARBIDE CORPORATION	
NUCLEAR DIVISION	
500 MOORE, TENNESSEE	
PARSONS, BRINCKERHOFF, QUADE & DONOFRIO INC.	
TENNESSEE	
WASTE ISOLATION FACILITY	
SECTION A-A/B-B	
DRAWING TITLE - CYCLE II - 2300 RETRIEVABLE	
SCALE 1" = 00'	COMMITTEE 821-40102C
DATE: FEBRUARY, 1978	REV NO: J 27
	REV



2075 PACKAGE LEVEL

CONVEYOR FEED
ELEV 210'

SETTLING RAMP

CLEAN WATER RAMP

ELECTRICAL
SUBSTATION

OUT BUILDING 1.04

CONVEYOR DISCHARGE
ELEV 195'

NO 2 & NO 3 CONVEYORS
ELEV 198'

LOADING POCKET

CONVEYOR
ACCESS

M & M CORRIDOR

SERVICE AREA

CRUSHER CONVEYOR SYSTEM



OFFICE OF WASTE ISOLATION

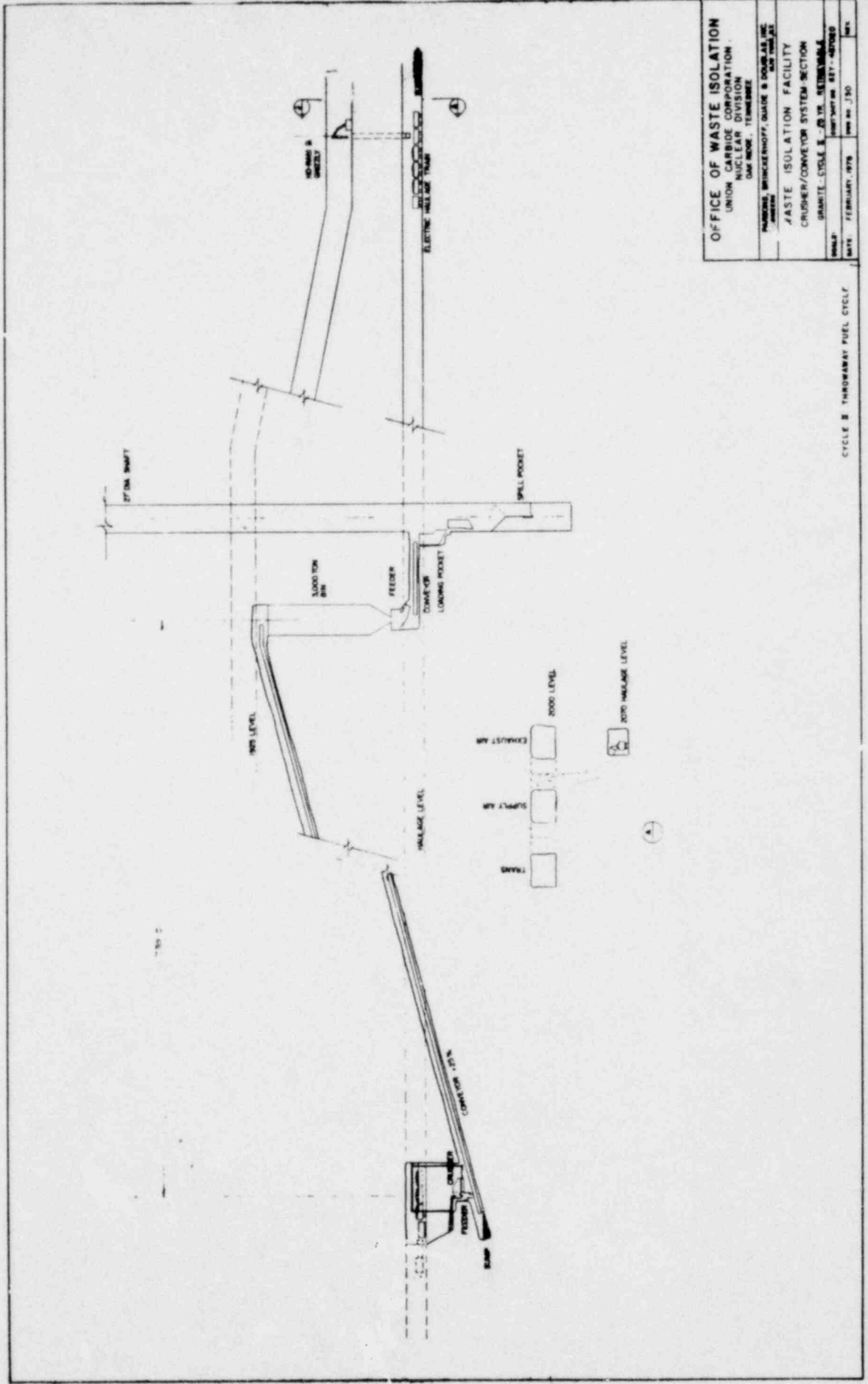
UNION CARBIDE CORPORATION
NUCLEAR DIVISION
OAK RIDGE, TENNESSEE

WASTE ISOLATION FACILITY

CRUSHER/CONVEYOR SYSTEM - PLAN
DRAWING NO. 837-45702C

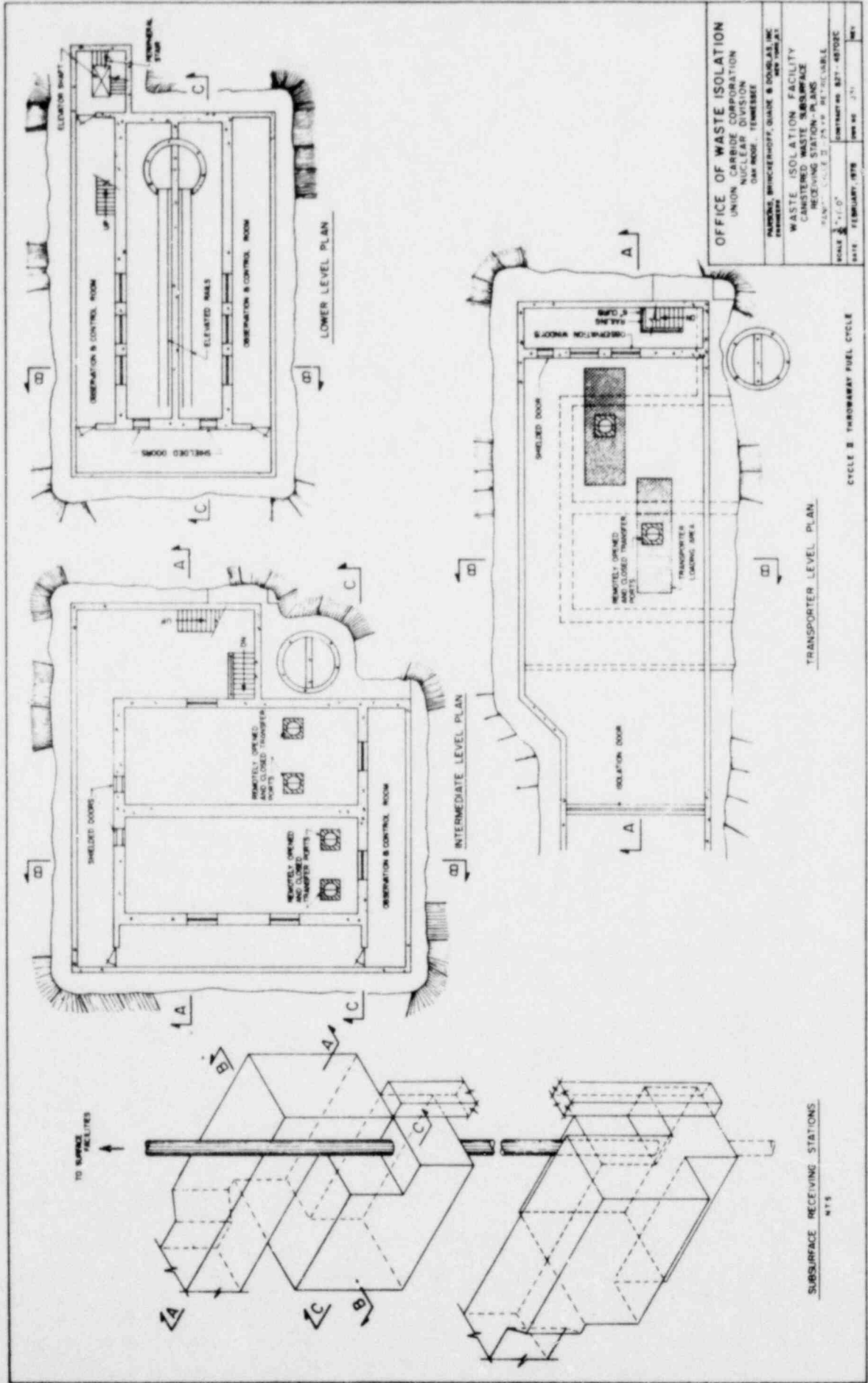
DATE	FEBRUARY 1978	REV
SCALE	AS SHOWN	REV

CYCLE II THROUGHWAY FUEL CYCLE



OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 ONE MOORE, TENNESSEE
 HARRISON, BRUNCKENHOFF, QUALITE & DOLAN, INC.
 4000 W. 10TH ST. SUITE 100
 WASHINGTON, D.C. 20004
WASTE ISOLATION FACILITY
CRUSHER/CONVEYOR SYSTEM SECTION
 DRAWING NO. 101-101-101-101
 DATE: FEBRUARY, 1979
 SHEET NO. 130

CYCLE 3 THROWAWAY FUEL CYCLE



OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
 ONE MOORE, TENNESSEE
 MEMPHIS, BRUNNENBERG, BLAKE & DOUGLAS INC.
 WASTE ISOLATION FACILITY
 WASTED WASTE SUBSURFACE
 RECEIVING STATION - PLANS
 SCALE: 1/4" = 1'-0"
 DATE: FEBRUARY, 1978
 SHEET NO. 271

TRANSPORTER LEVEL PLAN

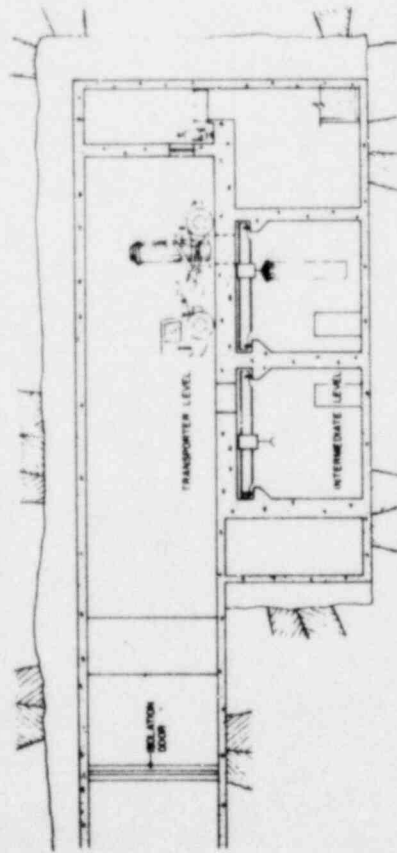
INTERMEDIATE LEVEL PLAN

LOWER LEVEL PLAN

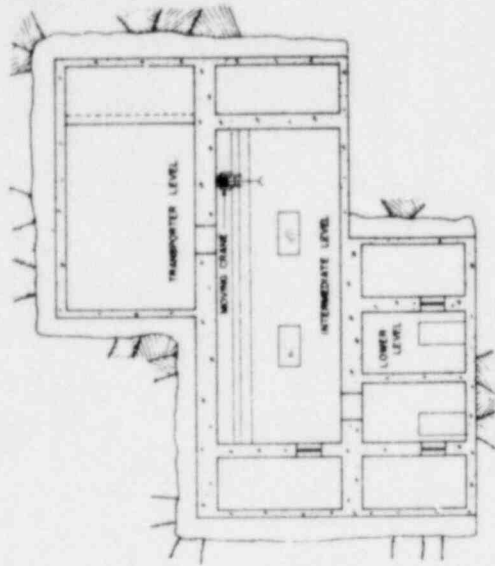
CYCLE B - THRUWAY FUEL CYCLE

SUBSURFACE RECEIVING STATIONS

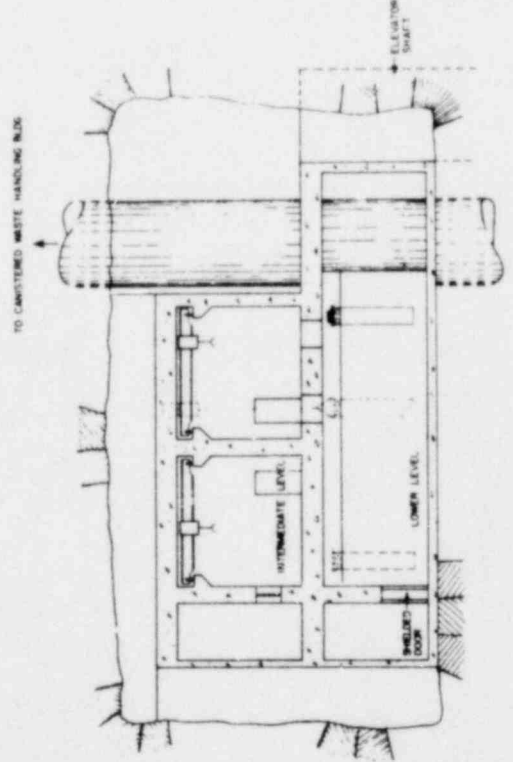
NYS



SECTION A-A



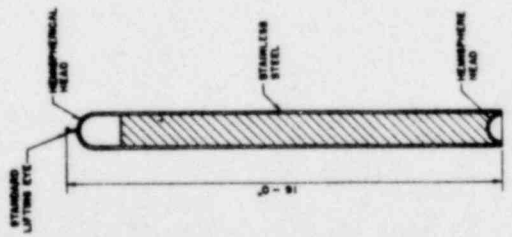
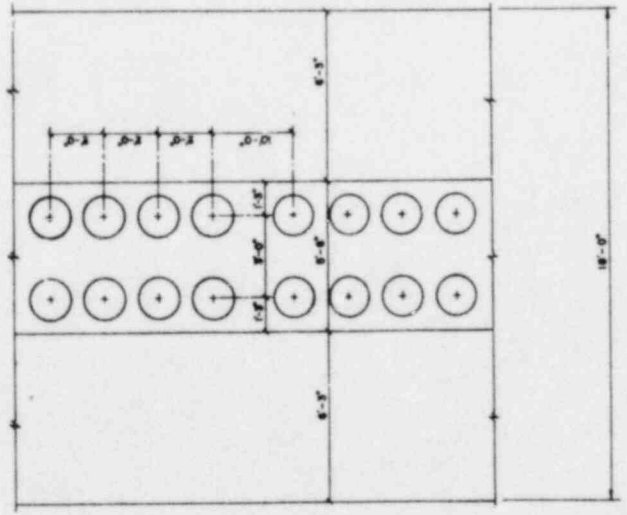
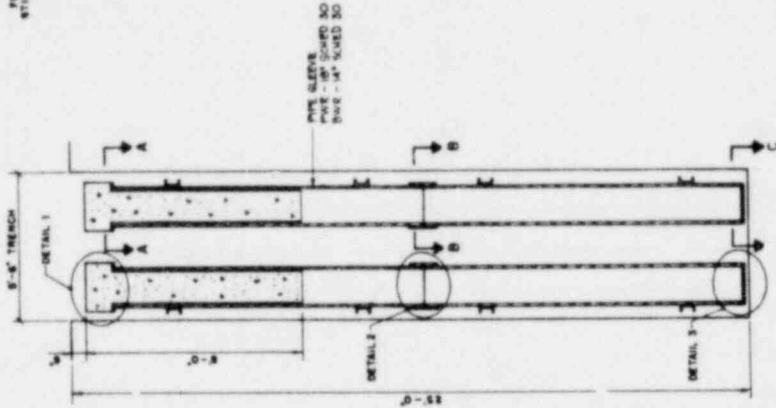
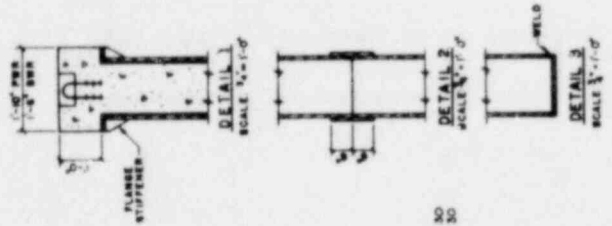
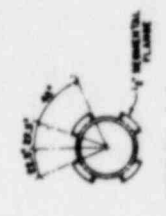
SECTION B-B



SECTION C-C

OFFICE OF WASTE ISOLATION UNION CARBIDE CORPORATION NUCLEAR DIVISION OAK RIDGE - TENNESSEE	
DRAWING BY: BRUNNENBERG, SHANKS & DOUGLASS, INC. DATE: 10/1/73	
WASTE ISOLATION FACILITY CANISTERED WASTE SUBURFACE RECEIVING STATION - SECTIONS GRANITE - CYCLE II - 25 x 8 - 10 FT. TABLE	
SCALE: 1/4" = 1'-0"	SHEET NO.: 1071 - 1082B/C
DATE: FEBRUARY, 1978	DRAWING NO.: 1071

CYCLE II THROWN AWAY FUEL CYCLE

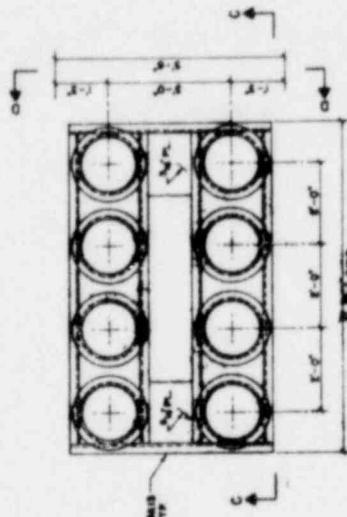


CANISTER PLACEMENT PLAN
N.T.S.

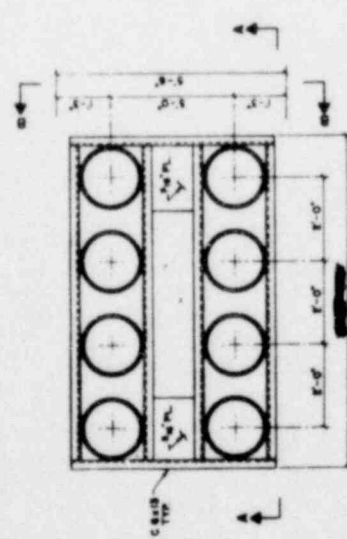
CANISTER DETAIL
N.T.S.

OFFICE OF WASTE ISOLATION	
UNION CARBIDE CORPORATION NUCLEAR DIVISION DUPONT, TENNESSEE	
DRAWN: BRONKHORST, MADE & CHECKED BY: [blank]	
WASTE ISOLATION FACILITY CANISTERED WASTE STORAGE GRANITE-CYCLER-2078 METRICABLE	
SCALE: AS SHOWN	DATE: FEBRUARY, 1978
PROJECT NO. 817-4512C	REV. NO. J18

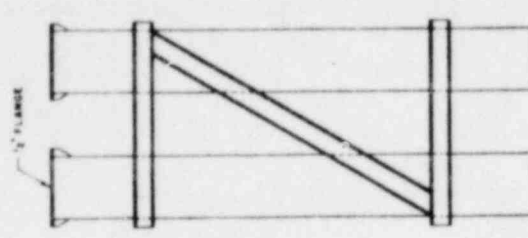
CYCLE 8 THRUWAY FUEL CYCLE



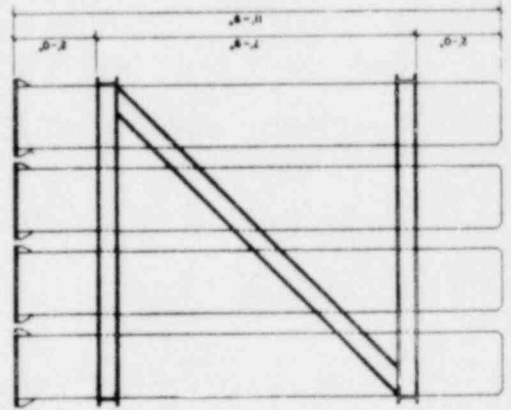
CANISTER PLACEMENT ASSEMBLY TOP VIEW



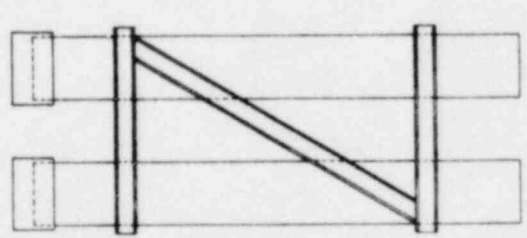
CANISTER PLACEMENT ASSEMBLY PLAN



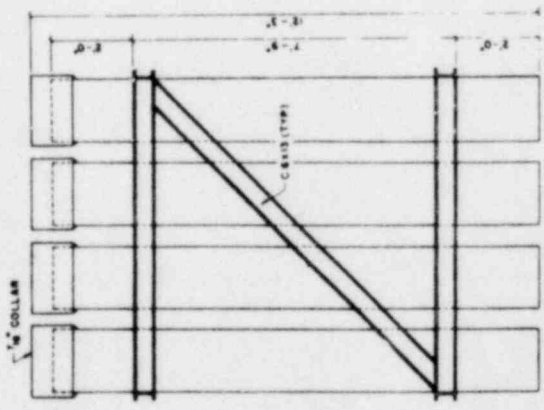
SECTION D-D



SECTION C-C



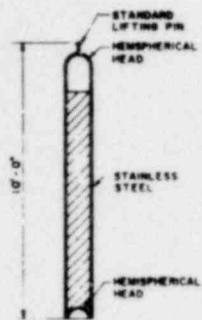
SECTION B-B



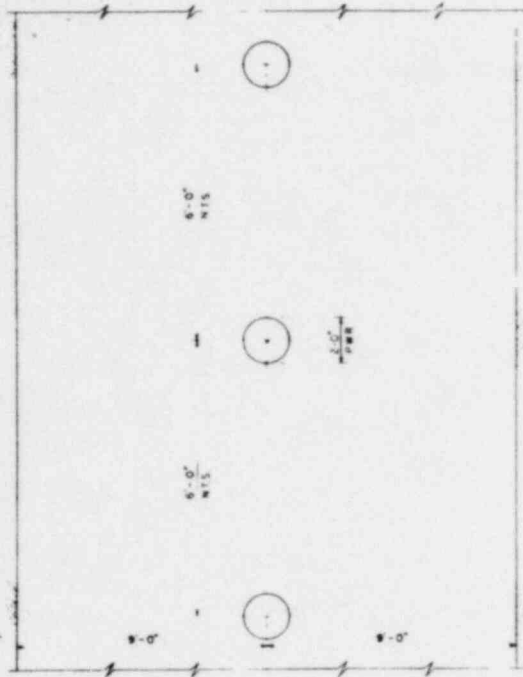
SECTION A-A

OFFICE OF WASTE ISOLATION UNION CARBIDE CORPORATION NUCLEAR DIVISION DAYTON, OHIO 45424	
WASTE ISOLATION FACILITY STORAGE CASING ASSEMBLIES DRYTYPE CYCLE B-257R RETRIEVABLE	
DATE: FEBRUARY 1978	CONTRACT NO. 877-45702C
SCALE: 1/4" = 1'-0"	APP'D: J. J. A.

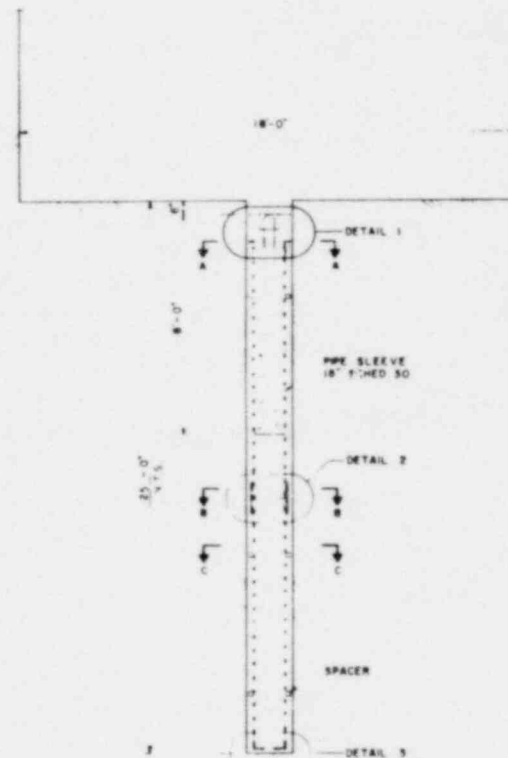
CLE [REDACTED]



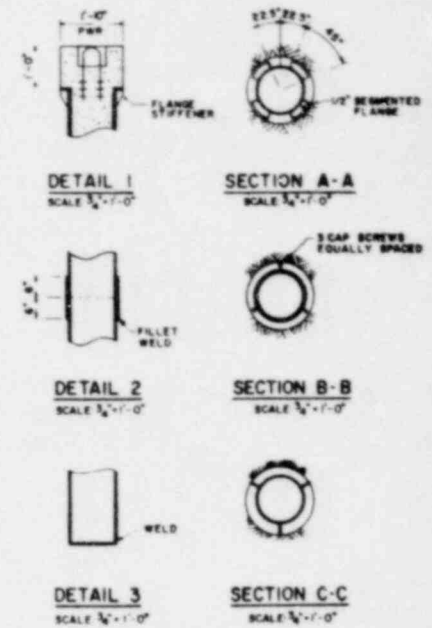
CANISTER DETAIL
SCALE 1/4" = 1'-0"



CANISTER PLACEMENT PLAN
SCALE 1/2" = 1'-0"



CANISTER PLACEMENT ELEVATION
SCALE 1/2" = 1'-0"



OFFICE OF WASTE ISOLATION	
UNION CARBIDE CORPORATION	
NUCLEAR DIVISION	
OAK RIDGE, TENNESSEE	
PARSONS BRINCKERHOFF, QUADE & DOUGLAS, INC.	
ENGINEERS	
WASTE ISOLATION FACILITY	
CANISTERED WASTE STORAGE	
NPP CYCLE 1 - 118 RETRIEVABLE	
SCALE AS SHOWN	CONTRACT NO. 62Y-45702C
DATE: FEBRUARY, 1978	REV NO. 2
	REV

CYCLE II THROWAWAY FUEL CYCLE

TIME IN WEEKS

140
135
130
125
120
115
110
105
100
95
90
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0

DESCRIPTION

27 # 8 1/2" SHAFT
CONTRACTOR'S MOBILIZATION
COLLAR AND HEADFRAME
SHAFT SINKING, EQUIPPING, LATERAL DEVELOPMENT
INSTALL PERMANENT EQUIPMENT
BEARINGS
DEVELOPMENT FOLLOWING SHAFT SINKING

28 # 10" 8 1/2" SHAFT
CONTRACTOR'S MOBILIZATION
COLLAR AND HEADFRAME
SHAFT SINKING, LATERAL DEVELOPMENT
EQUIPPING, PERMANENT EQUIPMENT
INSTALL TANKS, MISCELLANEOUS BEARINGS

30 # 12" 8 1/2" SHAFT
CONTRACTOR'S MOBILIZATION
COLLAR AND HEADFRAME
SHAFT SINKING, EQUIPPING, LATERAL DEVELOPMENT
INSTALL TANKS, MISCELLANEOUS BEARINGS

14" # CANISTER WASTE SHAFT
CONTRACTOR'S MOBILIZATION
COLLAR AND HEADFRAME
SHAFT SINKING, EQUIPPING
EQUIP WASTE RECEIVING STATIONS
INSTALL PERMANENT EQUIPMENT, MISCELLANEOUS BEARINGS

10" # 11 1/2" SHAFT
CONTRACTOR'S MOBILIZATION
COLLAR AND HEADFRAME
SHAFT SINKING, EQUIPPING, LATERAL DEVELOPMENT
INSTALL PERMANENT HEADFRAME TEST
MISCELLANEOUS BEARINGS

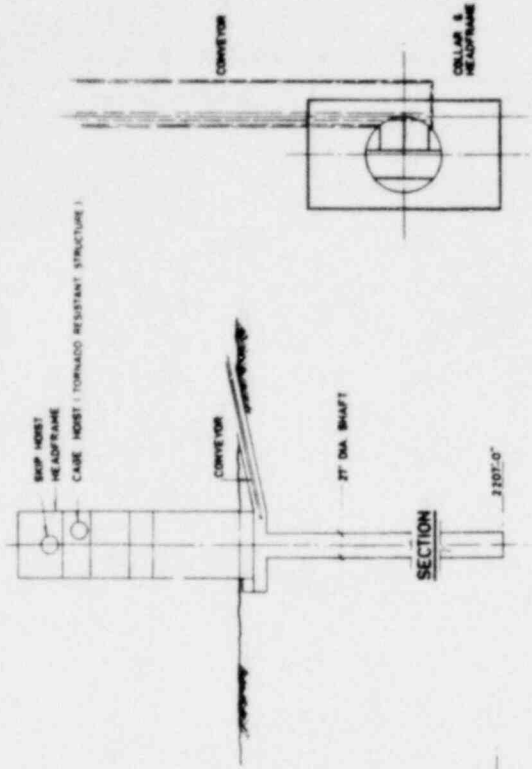
OFFICE OF WASTE ISOLATION
UNION CARBIDE CORPORATION
NUCLEAR DIVISION
OAK RIDGE, TENNESSEE

WASTE ISOLATION FACILITY
SHAFT CONSTRUCTION SCHEDULE

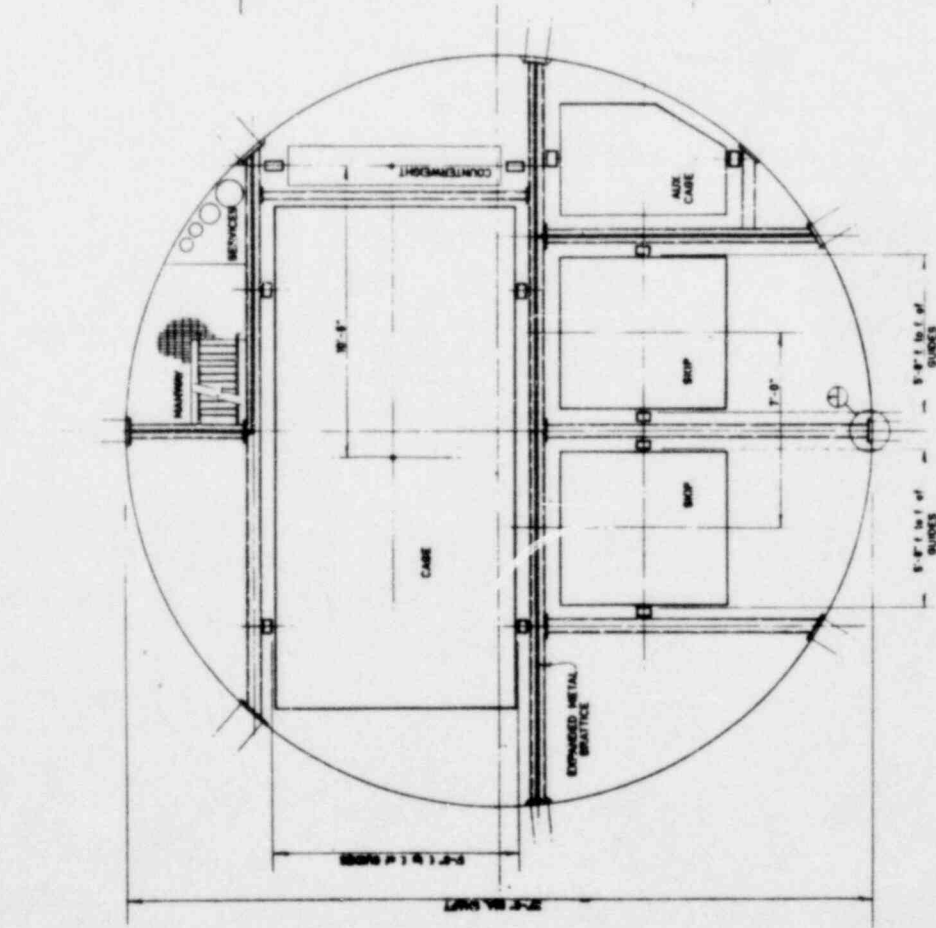
GRANITE - CYCLE 2, 20 YR. RETENANCE
SCHEDULE NO. 821-43702C

DATE: FEBRUARY, 1978
DRAWING NO. J-37

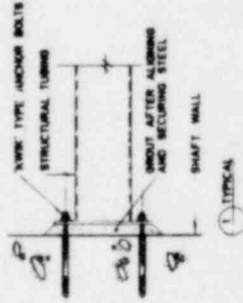
CYCLE 2 THROWAWAY FUEL CYCLE



PLAN



PLAN OF SHAFT



TYPICAL

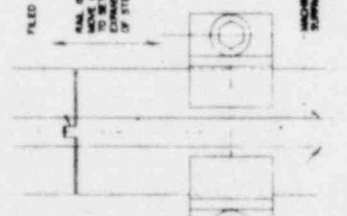
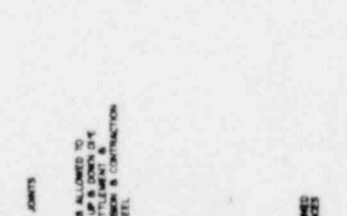
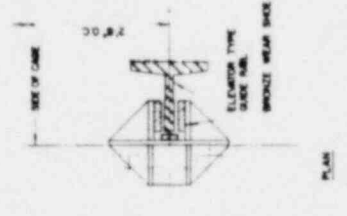
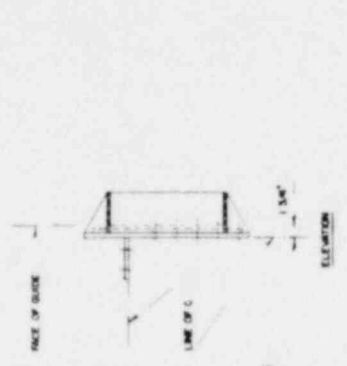
OFFICE OF WASTE ISOLATION	
UNION CARBIDE CORPORATION	
Nuclear Division	
DAN NORD, TENNESSEE	
HARRISON, BRINCKERHOFF, GUNDE & SUDAS AS INC.	
ENGINEERS	
WASTE ISOLATION FACILITY	
MEN AND MATERIAL SHAFT	
GRANITE CYCLE II - 2519 RETRIEVABLE	
SCALE	PROJECT NO. 821 - 0512C
DATE	FEBRUARY, 1979
	DESIGNER J. M.
	CHK

CYCLE II THORNBERRY FUEL CYCLE

NOTES:

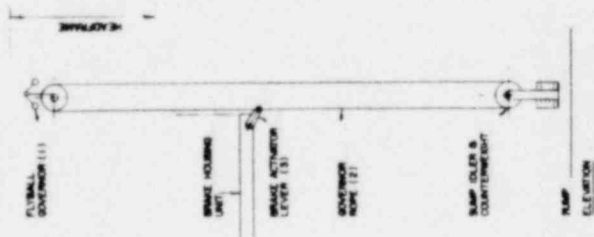
INSTALLATION:

- (1) BEARING AS DESCRIBED OTHERWISE, THE WEIGHT OF THE RAIL SHALL BE BORNE BY THE RAIL SUPPORTS.
- (2) BEFORE THE RAIL IS INSTALLED, THE RAIL SHALL BE INSPECTED FOR DEFECTS. THE ACTIVATION LEVER (13) IS PULLED UP INTO THE UNLOCKING POSITION. THE RAIL IS THEN LOWERED BY THE CATCHER.
- (3) AS THE CATCHER CONTINUES ITS DESCENT, THE RAIL IS RESTRICTED AND THE RAIL IS HELD IN PLACE.
- (4) BEHIND THE RAIL, THE RAIL SUPPORTS SHALL BE ADJUSTED TO SPREAD THE RAIL TO THE WIDTH OF THE RAIL. A CONSTANT PRESSURE ON THE RAIL SHALL BE MAINTAINED TO PREVENT THE RAIL FROM MOVING.
- (5) AUTOMATICALLY ENHANCED THE RAIL'S POSITION.

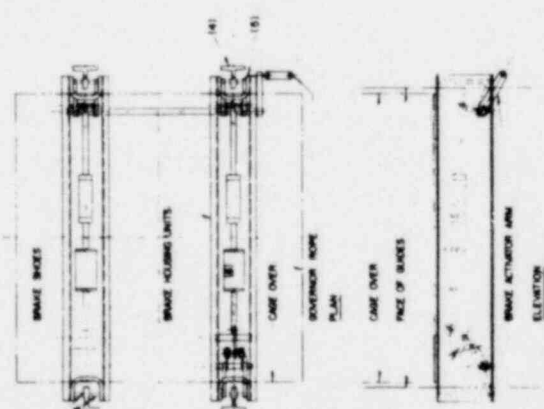


TYPICAL GUIDE SHOE

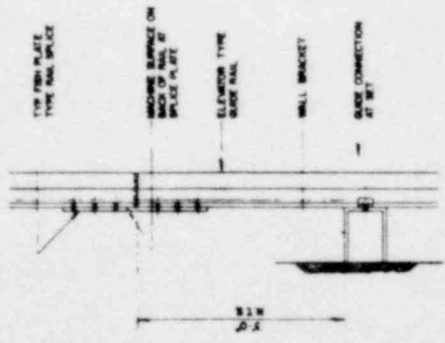
TYPICAL GUIDE RAIL ASSEMBLY



SHAFT SAFETY GEAR ARRANGEMENT



FLEXIBLE SAFETY DEVICE



GUIDE GENERAL ASSEMBLY

OFFICE OF WASTE ISOLATION
 UNION CARBIDE CORPORATION
 OAK RIDGE, TENNESSEE

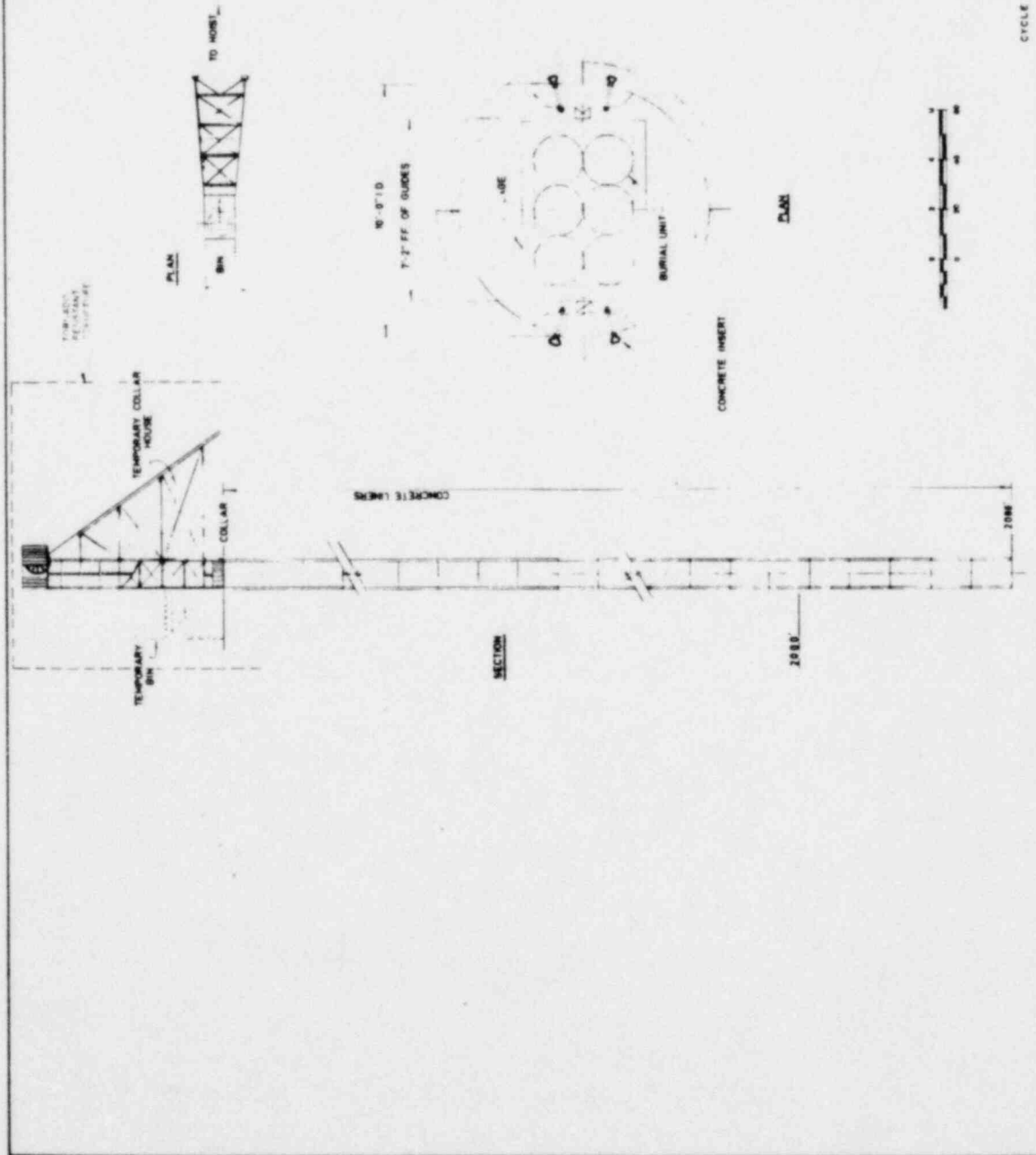
WASTE ISOLATION FACILITY
 CANISTERED WASTE SAFETY MECHANISM
 GRANITE-CYCLE B - 35.1A, RETRIEVABLE

DATE: FEBRUARY, 1978

CONTRACT NO. DT-77-07070C

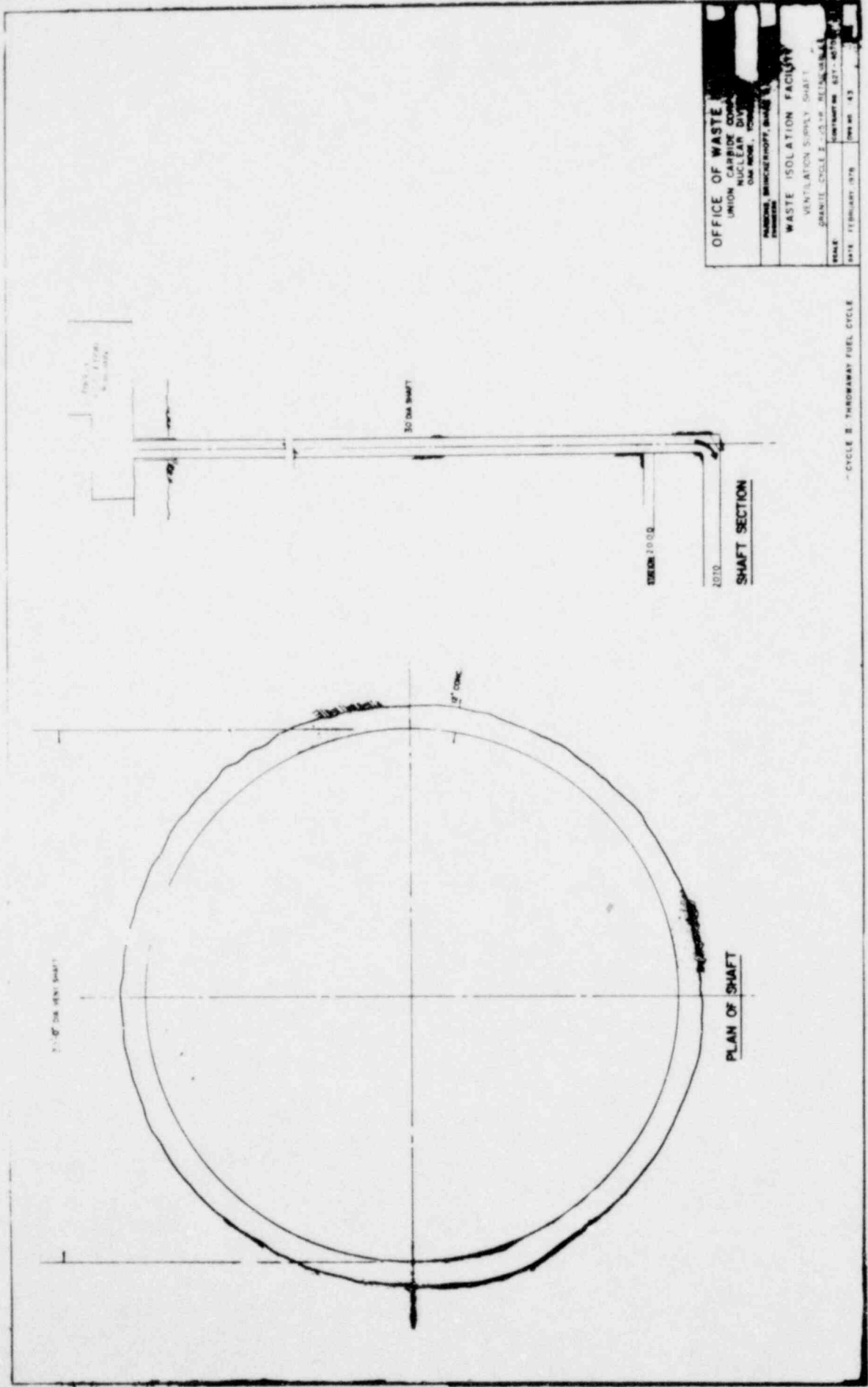
FIG. NO. 4

CYCLE B: THORNBERRY FUEL CYCLE



OFFICE OF WASTE ISOLATION	
UNION CARBIDE CORPORATION	
NUCLEAR DIVISION	
OAK RIDGE, TENNESSEE	
DRAWING BY: BRUNNENBERG, QUINN & DOLAN, INC.	
DATE: 1975	
PROJECT: WASTE ISOLATION FACILITY	
SHEET: LOW LEVEL WASTE SHAFT	
SCALE: GRANITE CYCLE, 2'-0" DIA. - RETRIEVABLE	
SCALE:	PROJECT NO. 827-45702C
DATE: FEBRUARY, 1975	SHEET NO. 1-2

CYCLE 3 THROWAWAY FUEL CYCLE

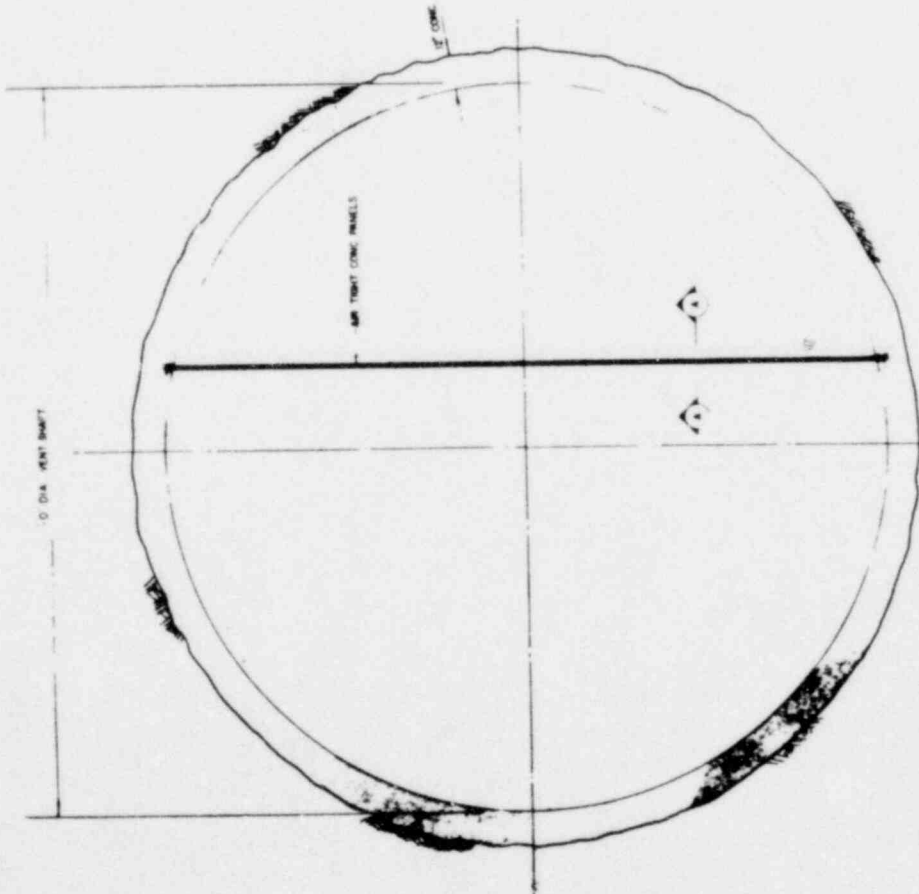


OFFICE OF WASTE
 UNION CARBIDE CORP.
 NUCLEAR DIV.
 ONE MOORE, YORK
 PAUNING, BRIDGE BROOK, BRIDGE
 WASTE ISOLATION FACILITY
 VENTILATION SUPPLY SHAFT
 GRANITE CYCLE 2, 2010
 SCALE: CONTRACT NO. 827-4074
 DATE: FEBRUARY 1978
 DWG NO. 43

2010
SHAFT SECTION

PLAN OF SHAFT

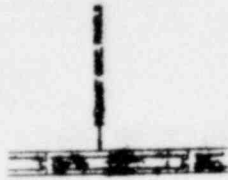
- CYCLE 2 THROAWAY FUEL CYCLE



PLAN OF SHAFT



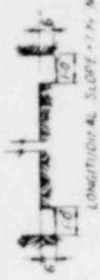
SHAFT SECTION



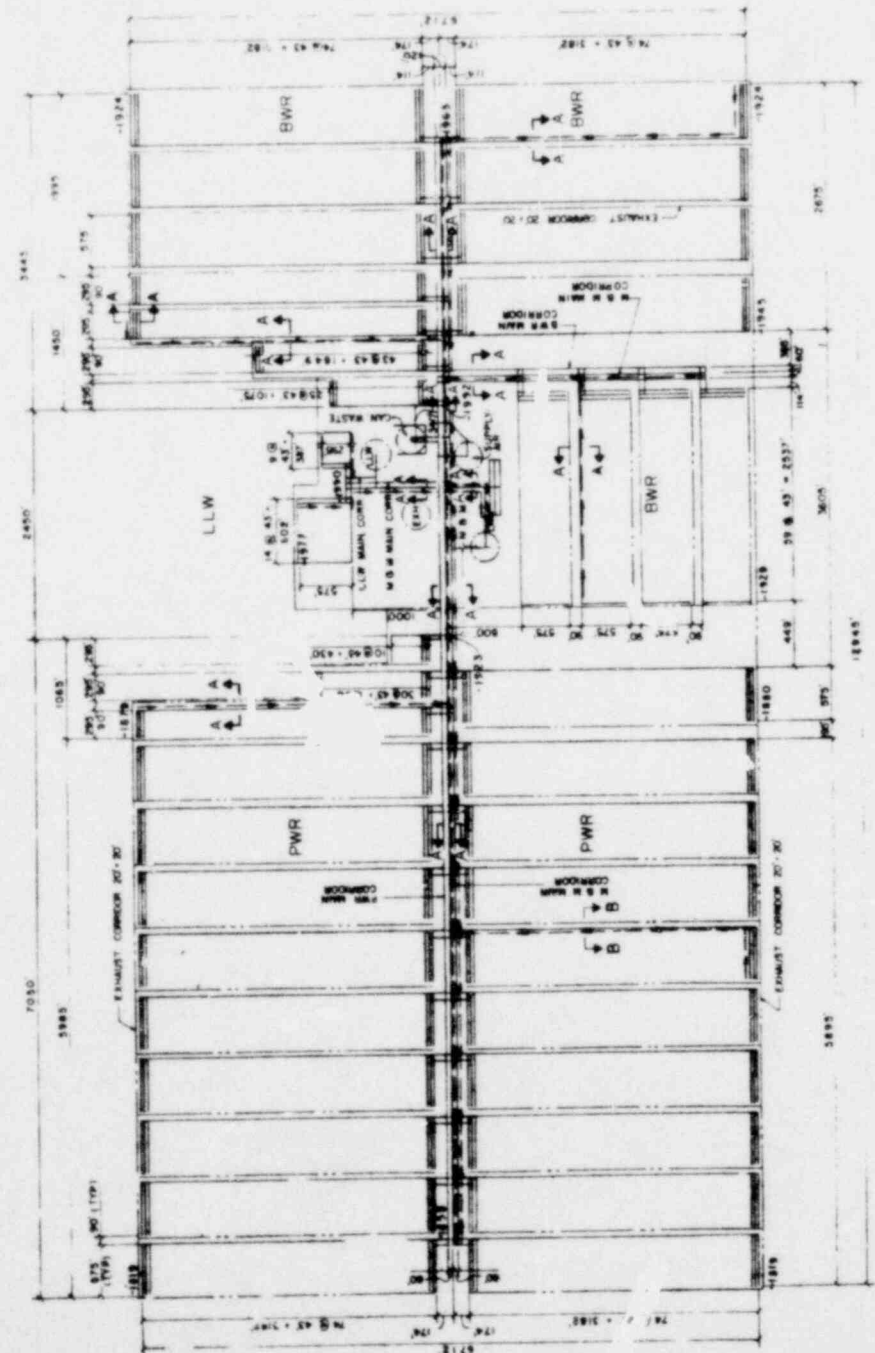
SECTION 'A-A'

OFFICE OF WASTE ISOLATION UNION CARBIDE CORPORATION NUCLEAR DIVISION DAYTON, OHIO - 45424	
WASTE ISOLATION FACILITY VENTILATION EXHAUST SHAFT GRANITE - CYCLE 2 - 2000 LEVEL, RELEVABLE	
DRAWN BY: BRUNNENHOFF, CHASE & SOLARAS, INC. ENGINEER	CONTRACT NO. 821-45702C
SCALE	DATE: FEBRUARY, 1978
SHEET NO. 144	OF 144

CYCLE 2 THROUGHWAY FUEL CYCLE



- NOTES:
- 1 ALL LINES SHOWN REPRESENT THE CENTER LINES OF EITHER ROOMS OR CORRIDORS
 - 2 FOR SHIRT AREA DETAIL SEE DRG NO 810
 - 3 PWR = PRESSURIZED WATER REACTOR WASTE
BWR = BOILING WATER REACTOR WASTE
LLW = LOW LEVEL WASTE
 - 4 FOR ROOM CROSS SECTIONS SEE DRG NO 810
 - 5 ROOM SIZES:
PWR 180' x 260' x 8' x 8'
BWR 180' x 260' x 8' x 8'
LLW 280' x 8' x 8'
ALL CORRIDORS ARE 30' WIDE



MINE DRAINAGE PLAN

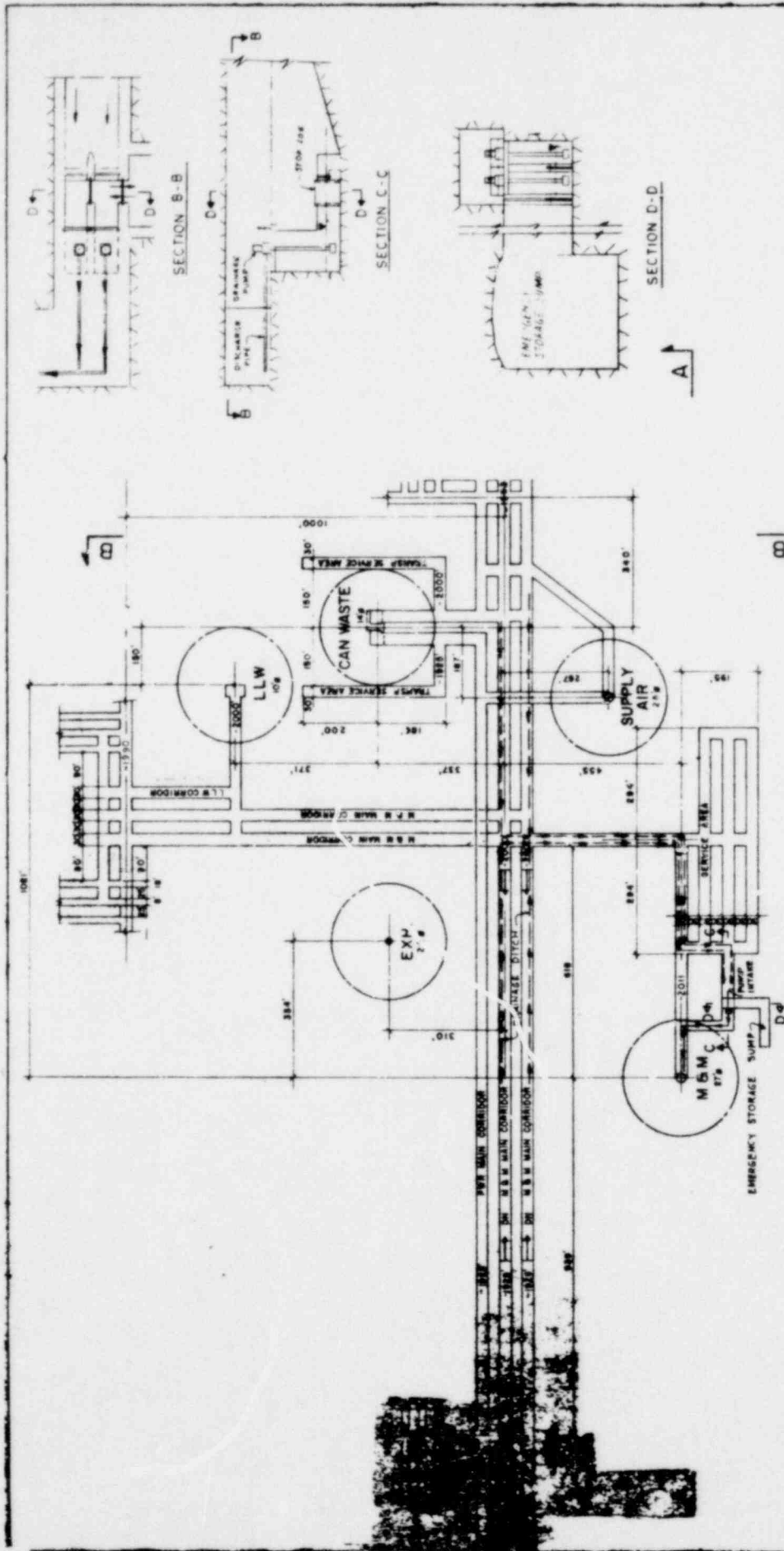
NOTES:
DRAINAGE PLAN FOR CYCLE II IS SHOWN
DRAINAGE PLANS FOR CYCLE I & III ARE SIMILAR.

OFFICE OF WASTE ISOLATION
 IN ON CARBIDE CORPORATION
 NUCLEAR DIVISION
 OAK RIDGE, TENNESSEE

WASTE ISOLATION FACILITY
 MINE DRAINAGE PLAN
 GRANITE CYCLE II - 310 DETAILABLE

SCALE: 1" = 60'
 DATE: FEBRUARY, 1978
 DRAWING NO: 821-45702C
 SHEET NO: 11

CYCLE II FORWARD/REEL CYCLE



MINE PARTIAL PLAN
SCALE 1" = 10'

NOTES:
DRAINAGE PLAN FOR CYCLE II IS SHOWN.
DRAINAGE PLANS FOR CYCLE I & III ARE SIMILAR.

OFFICE OF WASTE ISOLATION	
UNION CARBIDE CORPORATION	
NUCLEAR DIVISION	
DUMFRIES, TENNESSEE	
P.L. MOORE, ENGINEER	
WASTE ISOLATION FACILITY	
PARTIAL DRAINAGE PLAN & SECTIONS	
DRAWING NO. 827-45702C	
SCALE 1" = 20'	DATE FEBRUARY, 1978
DESIGNED BY	DR. J. H. BROWN
CHECKED BY	DR. J. H. BROWN
DATE	FEBRUARY, 1978

CYCLE II THROWSAWY FUEL CYCLE