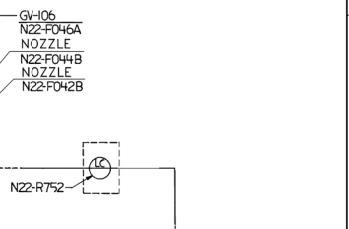


LEAD	VALVE	GV-30	GV-13	GV-12	GV-3C	GV-13	GV-12
A	F047A	F047A	F048A	F049A	F047B	F048B	F049B
B	F048A	F048A	F049A	F050A	F048B	F049B	F050B
C	F049A	F049A	F050A	F051A	F049B	F050B	F051B
D	F050A	F050A	F051A	F052A	F050B	F051B	F052B
E	F051A	F051A	F052A	F053A	F051B	F052B	F053B
F	F052A	F052A	F053A	F054A	F052B	F053B	F054B
G	F053A	F053A	F054A	F055A	F053B	F054B	F055B
H	F054A	F054A	F055A	F056A	F054B	F055B	F056B
I	F055A	F055A	F056A	F057A	F055B	F056B	F057B
J	F056A	F056A	F057A	F058A	F056B	F057B	F058B
K	NA	NA	NA	NA	NA	NA	NA

\* SEE NOTE 6 (CONDENSER 'A') \*\*MOGAS



- REFERENCES:
- H-1102 - PIPING-MOISTURE SEPARATOR-REHEATER DRAINS TO 5TH & 7TH STG. HEATERS & CONDENSER
  - H-1101 - PIPING-MOISTURE SEPARATOR-REHEATER DRAINS TO 5TH & 7TH STG. HEATERS & CONDENSER
  - H-1083 - 5TH STG. HEATER DRAINS
  - H-1084 - 7TH & 8TH STG. HEATER DRAINS
  - H-1085 - 10TH STG. HTR. DRAINS
  - H-1086 - 12TH STG. HTR. DRAINS
  - H-1036 - CIRC. WATER P&I.D.
- NOTES:
- THIS DWG. ORIGINATED FROM DWG. H-11020.
  - WORK THIS DWG. WITH DWGS. H-11020, H-11606, H-11607 AND H-11646.
  - FOR ADDITIONAL NOTES AND REFERENCES SEE DWG. H-11020.
  - ◇ & ◇ DENOTES CONTINUATION OF LINES TO DWGS. H-11020, H-11606, H-11607 AND H-11646.
  - FOR HEATER DRAIN PUMP VENTS AND DRAINS SEE H-11086 OR H-46582.
  - GV-227 AND GV-242 ARE EQUIVALENT FOR USE IN 1N22 NON-SAFETY APPLICATIONS PER EQUIVALENCY EVALUATION GV-242-001.
  - VENTS ARE CONNECTED TO A 2" HEADER AND VENTED TO ATMOSPHERE ABOVE THE TUBING ROOM FLOOR AT EL. 226'-4". A MANUAL VALVE (1N22-F1365) IS PROVIDED ABOVE EL. 184'-0" TO PROVIDE ISOLATION FOR THE VENT STACK (SEE DETAIL "B").
  - ALL PIPING DOWNSTREAM OF F012A/B IS GEE. VALVES 1N22-F014A & B ARE GEE.
  - 1N22-F1117A & B ARE 12" x 14" DRAG VALVES. DOWNSTREAM PIPING IS 14" GEE.

MPL # N22

Version: 34.0 Date: 7-16-12

REVISED PER ABN-H02822, VER.1.0 DRAWING CORRECTIONS

EDWIN I. HATCH NUCLEAR PLANT UNIT No. 1 P & I D MOISTURE SEPARATOR AND HEATER DRAIN SYSTEM SHEET 4

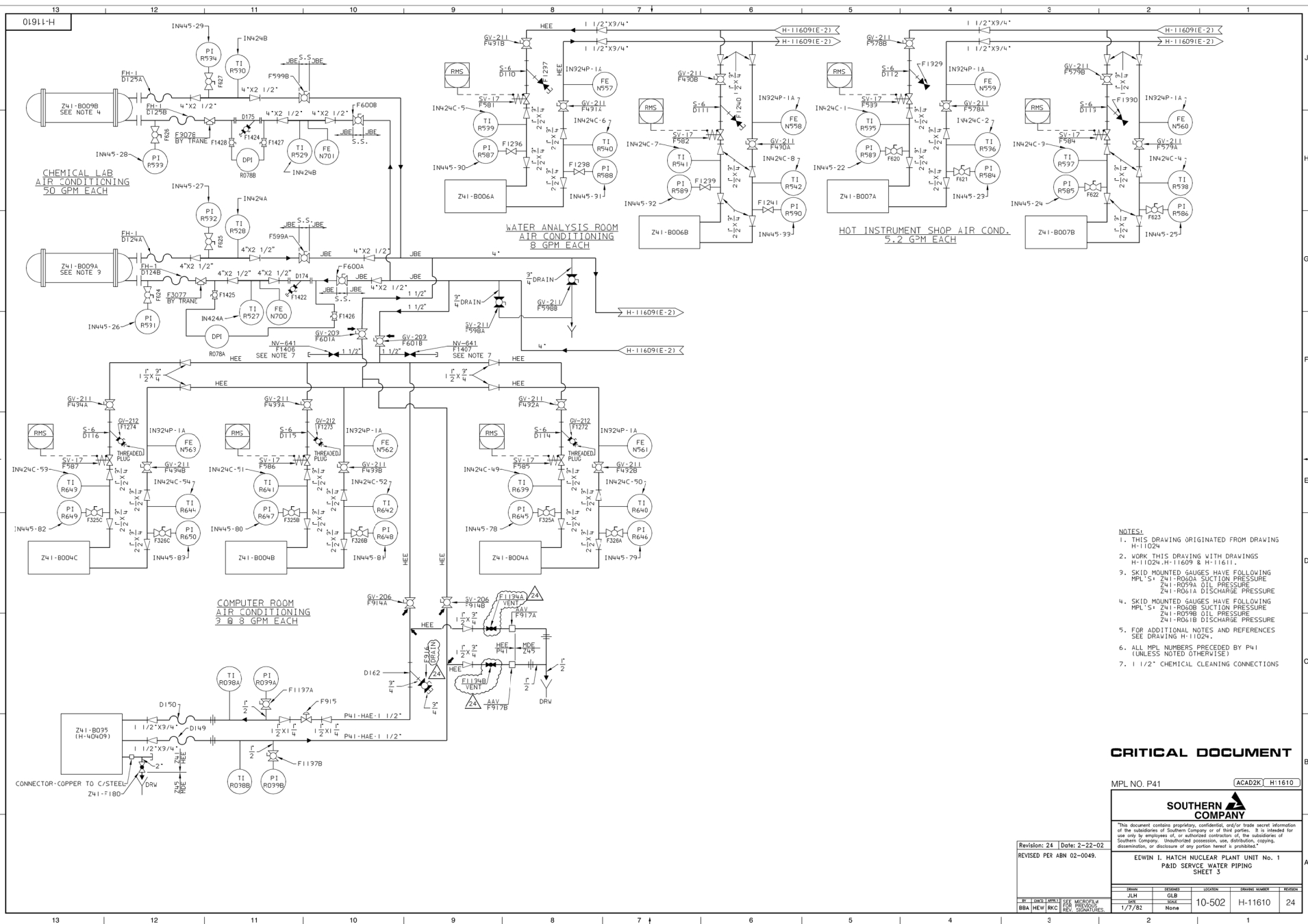
DATE	BY	CHKD	APPD	REV	DESCRIPTION	REVISION
1-22-82	JJB	DRH	AAH	1	SEE MICROFILM REV. 10/19/82	34.0

10-502 H-11608 34.0

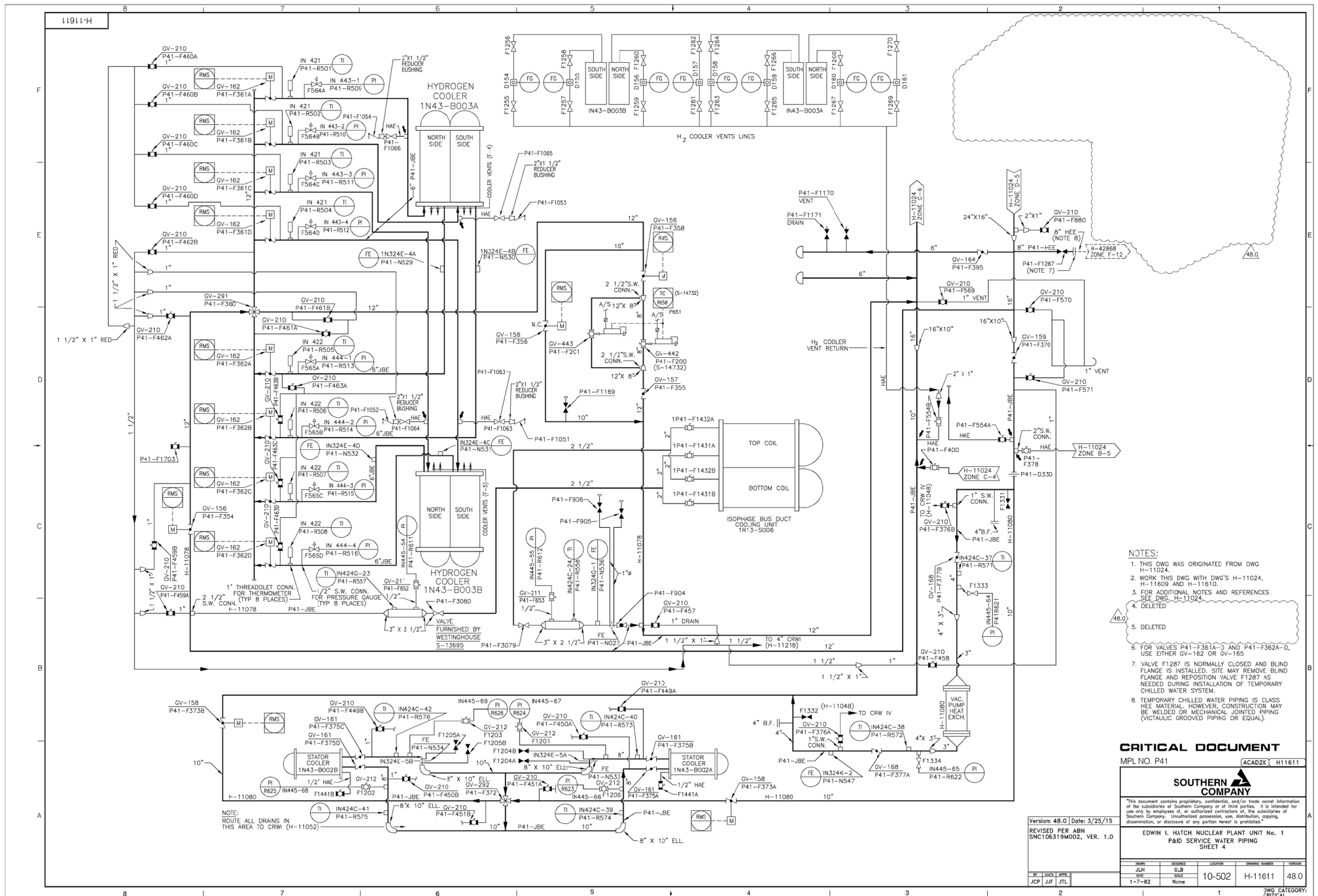
1 DRAWING CATEGORY: CRITICAL



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- NOTES:
- THIS DWG WAS ORIGINATED FROM DWG H-11024.
  - WORK THIS DWG WITH DWG'S H-11024, H-11609 AND H-11610.
  - FOR ADDITIONAL NOTES AND REFERENCES SEE DWG. H-11024.
  - DELETED
  - DELETED
  - FOR VALVES P41-F361A-D AND P41-F362A-D, USE EITHER GV-162 OR GV-165
  - VALVE F1287 IS NORMALLY CLOSED AND BLIND FLANGE IS INSTALLED. SITE MAY REMOVE BLIND FLANGE AND REPOSITION VALVE F1287 AS NEEDED DURING INSTALLATION OF TEMPORARY CHILLED WATER SYSTEM.
  - TEMPORARY CHILLED WATER PIPING IS CLASS HBE MATERIAL. HOWEVER, CONSTRUCTION MAY BE WELDED OR MECHANICAL JOINTED PIPING (VICTAULIC GROOVED PIPING OR EQUAL).

# **CRITICAL DOCUMENT**

MPL NO. P41 ACAD2K H11611



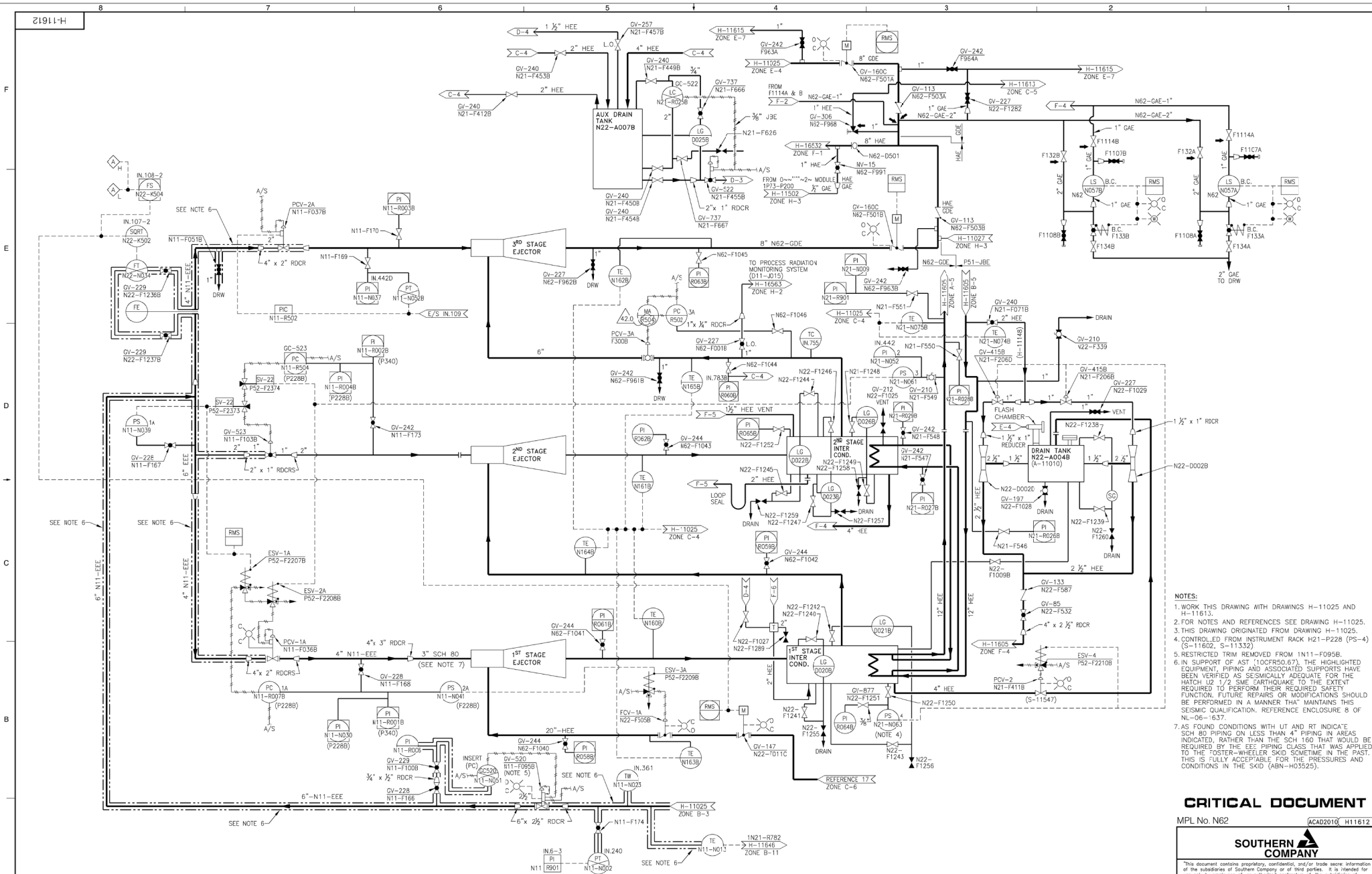
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EDWIN I. HATCH NUCLEAR PLANT UNIT No. 1  
P&ID SERVICE WATER PIPING  
SHEET 4

Version: 48.0 Date: 3/25/15  
REVISED PER ABN  
SNC10631PM002, VER. 1.0

DATE	BY	CHKD	APPD	LOCATION	ISSUED NUMBER	ISSUED
JUL 94	GJB	None	None	10-502	H-11611	48.0
DATE	BY	CHKD	APPD	LOCATION	ISSUED NUMBER	ISSUED
JUL 94	JUL	None	None	1-7-82	H-11611	48.0

DWG CATEGORY:  
CRITICAL



- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS H-11025 AND H-11613.
  2. FOR NOTES AND REFERENCES SEE DRAWING H-11025.
  3. THIS DRAWING ORIGINATED FROM DRAWING H-11025.
  4. CONTROLLED FROM INSTRUMENT RACK H21-P228 (PS-4) (S-11602, S-11332).
  5. RESTRICTED TRIM REMOVED FROM N11-F095B.
  6. IN SUPPORT OF AST (10CFR50.67), THE HIGHLIGHTED EQUIPMENT, PIPING AND ASSOCIATED SUPPORTS HAVE BEEN VERIFIED AS SEISMICALLY ADEQUATE FOR THE HATCH 1/2 SMC EARTHQUAKE TO THE EXTENT REQUIRED TO PERFORM THEIR REQUIRED SAFETY FUNCTION. FUTURE REPAIRS OR MODIFICATIONS SHOULD BE PERFORMED IN A MANNER THAT MAINTAINS THIS SEISMIC QUALIFICATION. REFERENCE ENCLOSURE 8 OF NL-06-1637.
  7. AS FOUND CONDITIONS WITH UT AND RT INDICATE SCH 80 PIPING ON LESS THAN 4" PIPING IN AREAS INDICATED, RATHER THAN THE SCH 160 THAT WOULD BE REQUIRED BY THE EEE PIPING CLASS THAT WAS APPLIED TO THE TOSTER-WHEELER SAID SCHEMATIC. IN THE PAST, THIS IS FULLY ACCEPTABLE FOR THE PRESSURES AND CONDITIONS IN THE SKID (ABN-H03525).

# CRITICAL DOCUMENT

MPL No. N62 ACAD2010 H11612



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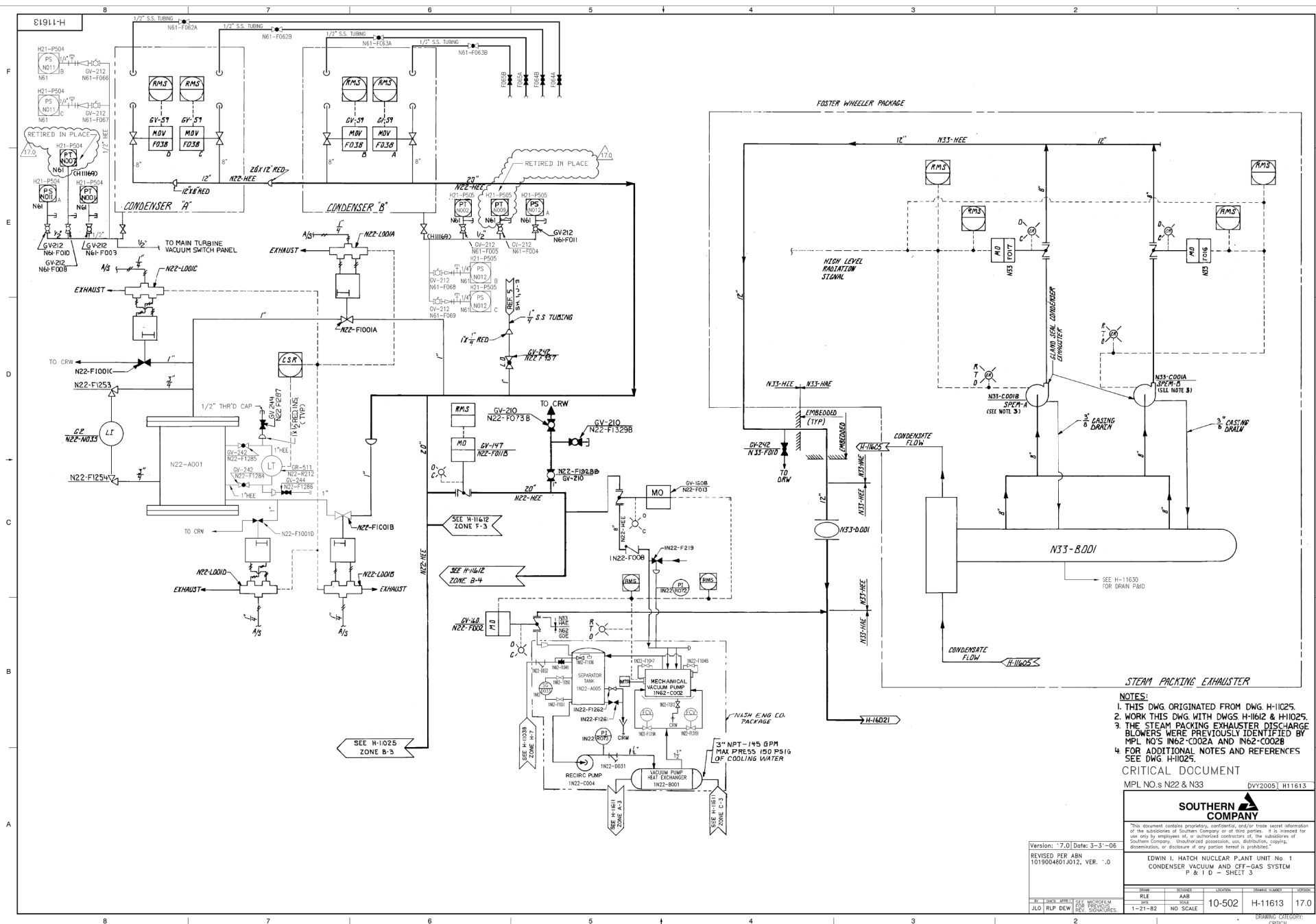
EDWIN I. HATCH NUCLEAR PLANT UNIT No. 1  
CONDENSER VACUUM AND OFFGAS SYSTEM  
P & I D SHEET 2

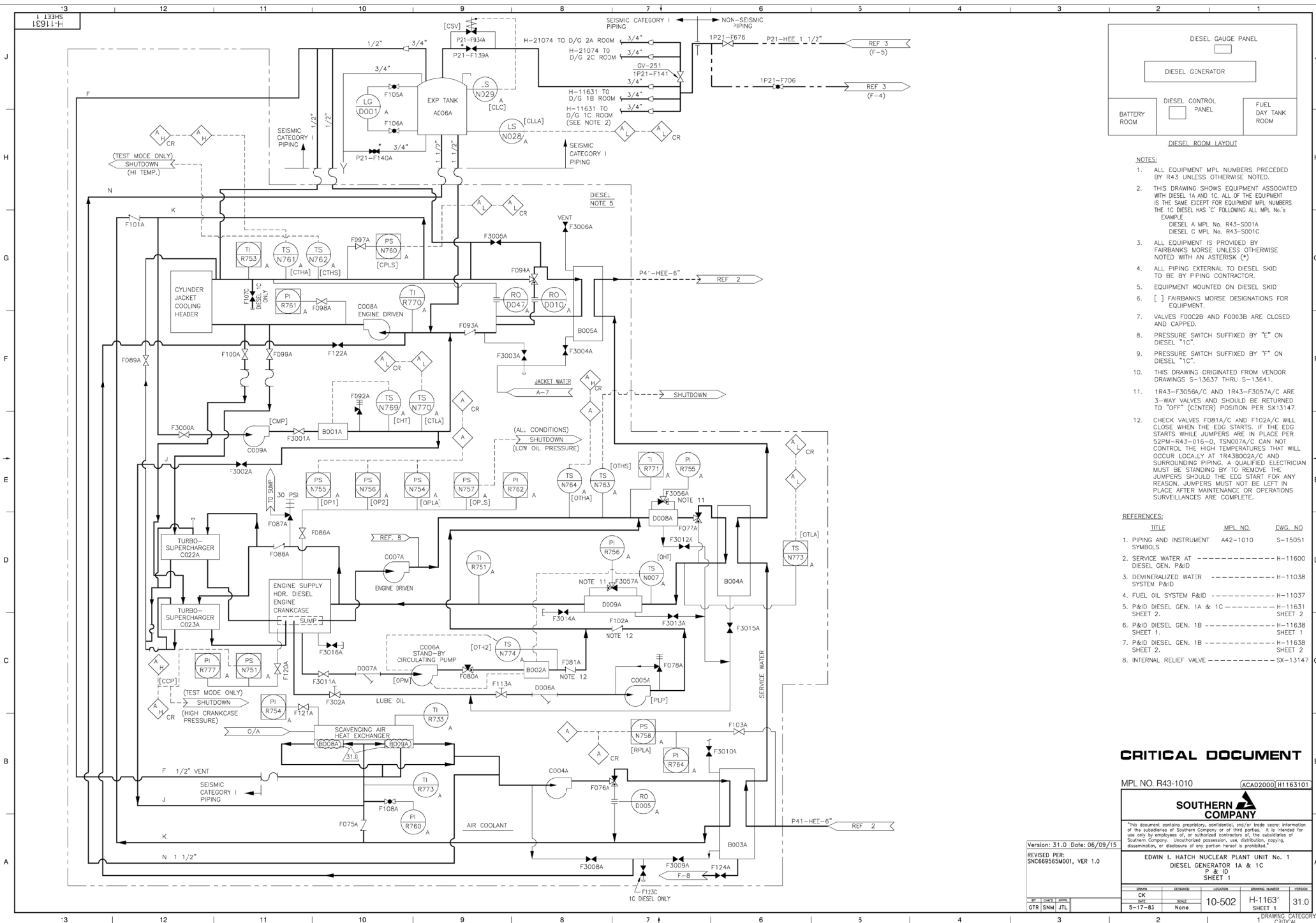
Version: 42.0 Date: 05/16/16  
REVISED PER: SNC76655M003, VER 3.0

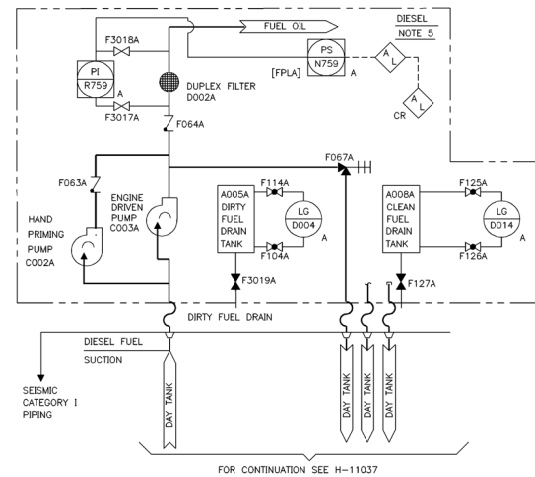
DATE	REVISION	LOCATION	REVISION NUMBER	REVISION
PST	None			
10-21-82	No Scale	10-502	H-11612	42.0

QTR DAB JTL

STEAM JET AIR EJECTOR - B  
N62-D500B (S-11052)







- | REFERENCES:                                    |          |                    |
|--|----------|--------------------|
| TITLE  | WPL NO.  | DWG. NO.           |
| 1. PIPING AND INSTRUMENT SYMBOLS               | A42-1010 | S-15051            |
| 2. SERVICE WATER AT DIESEL GEN. PAID           | -----    | H-11600            |
| 3. DEMINERALIZED WATER SYSTEM PAID             | -----    | H-11038            |
| 4. FUEL OIL SYSTEM PAID                        | -----    | H-11037            |
| 5. PAID DIESEL GEN. 1A & 1C                    | -----    | H-11631<br>SHEET 1 |
| 6. PAID DIESEL GEN. 1B<br>SHEET 1              | -----    | H-11638<br>SHEET 1 |
| 7. PAID DIESEL GEN. 1B<br>SHEET 2              | -----    | H-11638<br>SHEET 2 |
| 8. RENOVAL PARTS LIST-MAIN BEARING OIL BOOSTER | -----    | SX-13147           |

## MPL No. 1R43 ACAD2K H1163102

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EDWIN I. HATCH NUCLEAR PLANT UNIT No. 1  
P & ID  
DIESEL GENERATOR 1A & 1C  
SHEET 2

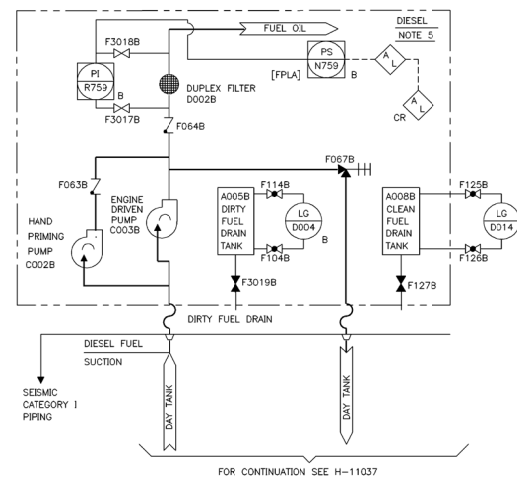
DRWN	DESIGNED	LOCATION	DRAWING NUMBER
BAS		10-502	H-11631 SHEET 2
DATE	SOLIC		
	None		

Version: 9.0	Date: 5/1/13
REVISED PER ABN-H03209, VER. 1.0	

BY	CHK'D	APPR'D	SEE MICROFILM FOR PREVIOUS REV. SIGNATURE
JJB	RAW	RKF	

DRAWING CATEGORY  
CRITICAL





- | REFERENCES:                             |          |                |
|---|----------|----------------|
| TITLE                                   | NPA NO.  | DWG. NO.       |
| 1. PIPING AND INSTRUMENT<br>SCHEDULE    | M42-1010 | S-15051        |
| 2. SERVICE WATER AT<br>DIESEL GEN. PAID | -----    | H-11600        |
| 3. DEMINERALIZED WATER<br>SYSTEM PAID   | -----    | H-11038        |
| 4. FUEL OIL SYSTEM PAID                 | -----    | H-11037        |
| PAID DIESEL GEN. 1A & 1C<br>SHEET 1.    | -----    | H-11631 SHT. 1 |
| PAID DIESEL GEN. 1A & 1C<br>SHEET 2.    | -----    | H-11631 SHT. 2 |
| PAID DIESEL GEN. 1B<br>SHEET 1.         | -----    | H-11638 SHT. 1 |

## MPL No. 1R43 Acad2K H1163802

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EDWIN I. HATCH NUCLEAR PLANT UNIT No. 1  
P & ID  
DIESEL GENERATOR 1B  
SHEET 2

	DRAWN	DESIGNED	LOCATION	DRAWING NUMBER	VERSION
	BAS	RJE	10-502	H-11638	7.0
	DATE	SHEET			
ES.	9-21-91	NONE			

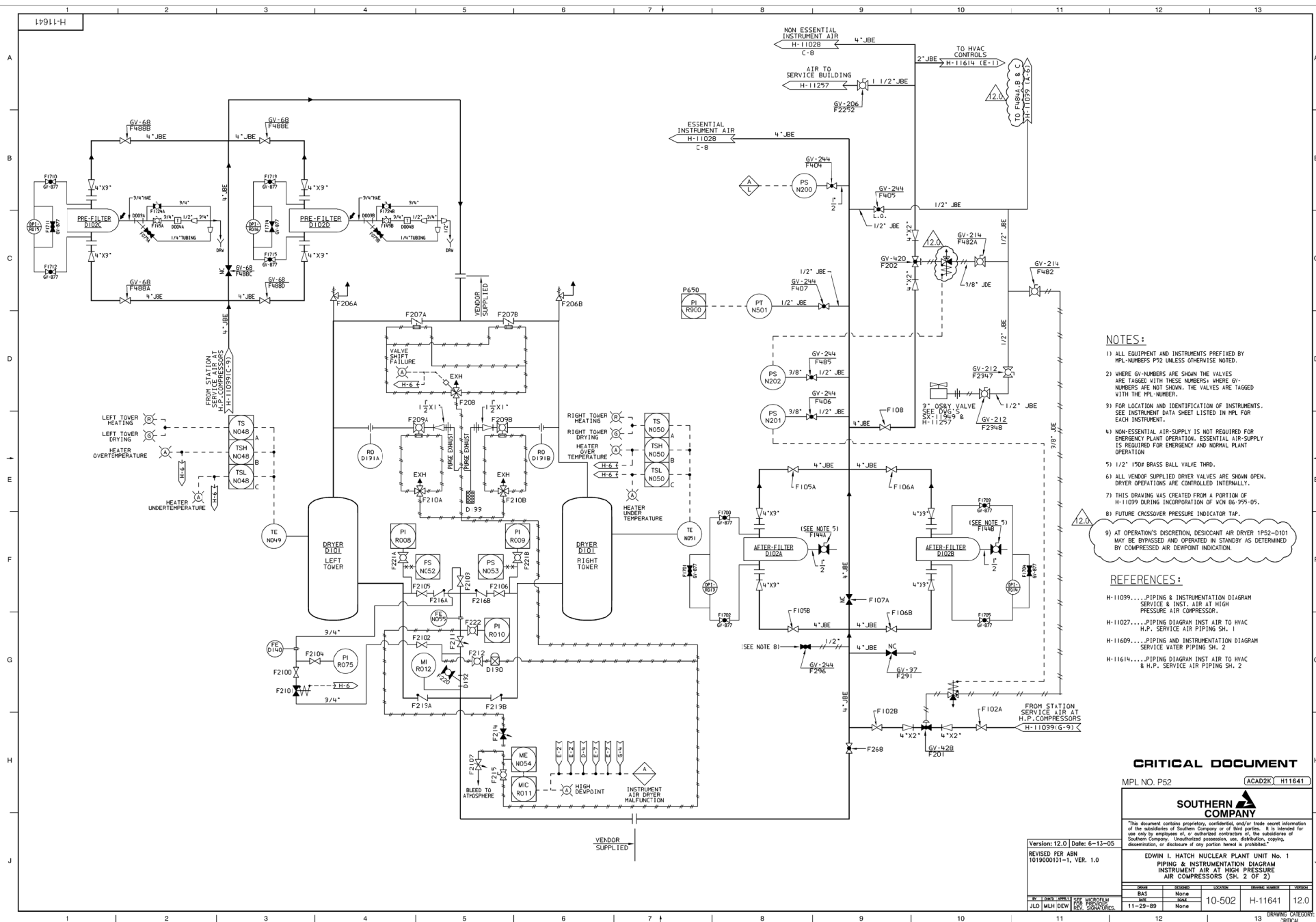
Version: 7.0	Date: 5/1/13
REVISED PER ABN-H03209, VER. 1.0	

REVISÉ PER  
ABN-H03209, VER. 1.0[illegible]

BT	CHK'D	APPR'D	SEE MICROFILM FOR PREVIOUS REV. SIGNATURE
JJB	RAW	RKF	

DRAWING CATEGORY  
CRITICAL





NOTES:

- 1) ALL EQUIPMENT AND INSTRUMENTS PREFIRED BY MPL-NUMBERS P52 UNLESS OTHERWISE NOTED.
- 2) WHERE GY-NUMBERS ARE SHOWN THE VALVES ARE TAGGED WITH THESE NUMBERS; WHERE GY-NUMBERS ARE NOT SHOWN, THE VALVES ARE TAGGED WITH THE MPL-NUMBER.
- 3) FOR LOCATION AND IDENTIFICATION OF INSTRUMENTS, SEE INSTRUMENT DATA SHEET LISTED IN MPL FOR EACH INSTRUMENT.
- 4) NON-ESSENTIAL AIR-SUPPLY IS NOT REQUIRED FOR EMERGENCY PLANT OPERATION. ESSENTIAL AIR-SUPPLY IS REQUIRED FOR EMERGENCY AND NORMAL PLANT OPERATION
- 5) 1/2" 150# BRASS BALL VALVE THIRD.
- 6) ALL VENDOR SUPPLIED DRIVER VALVES ARE SHOWN OPEN, DRIVER OPERATIONS ARE CONTROLLED INTERNALLY.
- 7) THIS DRAWING WAS CREATED FROM A PHOTO OF H-11099 DURING INCORPORATION OF VON 86 995-05.
- 8) FUTURE CROSSOVER PRESSURE INDICATOR TAG.
- 9) AT OPERATOR'S DISCRETION, DESICCANT AIR DRIVER P52-2-D01 MAY BE DE-CROSSOVERED AND OPERATED IN STAND-BY AS DEMAND BY COMPRESSED AIR DEMPOND INDICATOR.

## REFERENCES:

H-11039....PIPING & INSTRUMENTATION DIAGRAM  
SERVICE & INST. AIR AT HIGH  
PRESSURE AIR COMPRESSOR.

H-11027....PIPING DIAGRAM INST AIR TO HVAC  
H.P. SERVICE AIR PIPING SH. 1

H-11609....PIPING AND INSTRUMENTATION DIAGRAM  
SERVICE WATER PIPING SH. 2

H-11614....PIPING DIAGRAM INST AIR TO HVAC  
R.H.B. SERVICE AIR PIPING SM. 2

**CRITICAL DOCUMENT**

MPL NO. P52

ACAD2K H11641

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Version: 12.0	Date: 6-13-05
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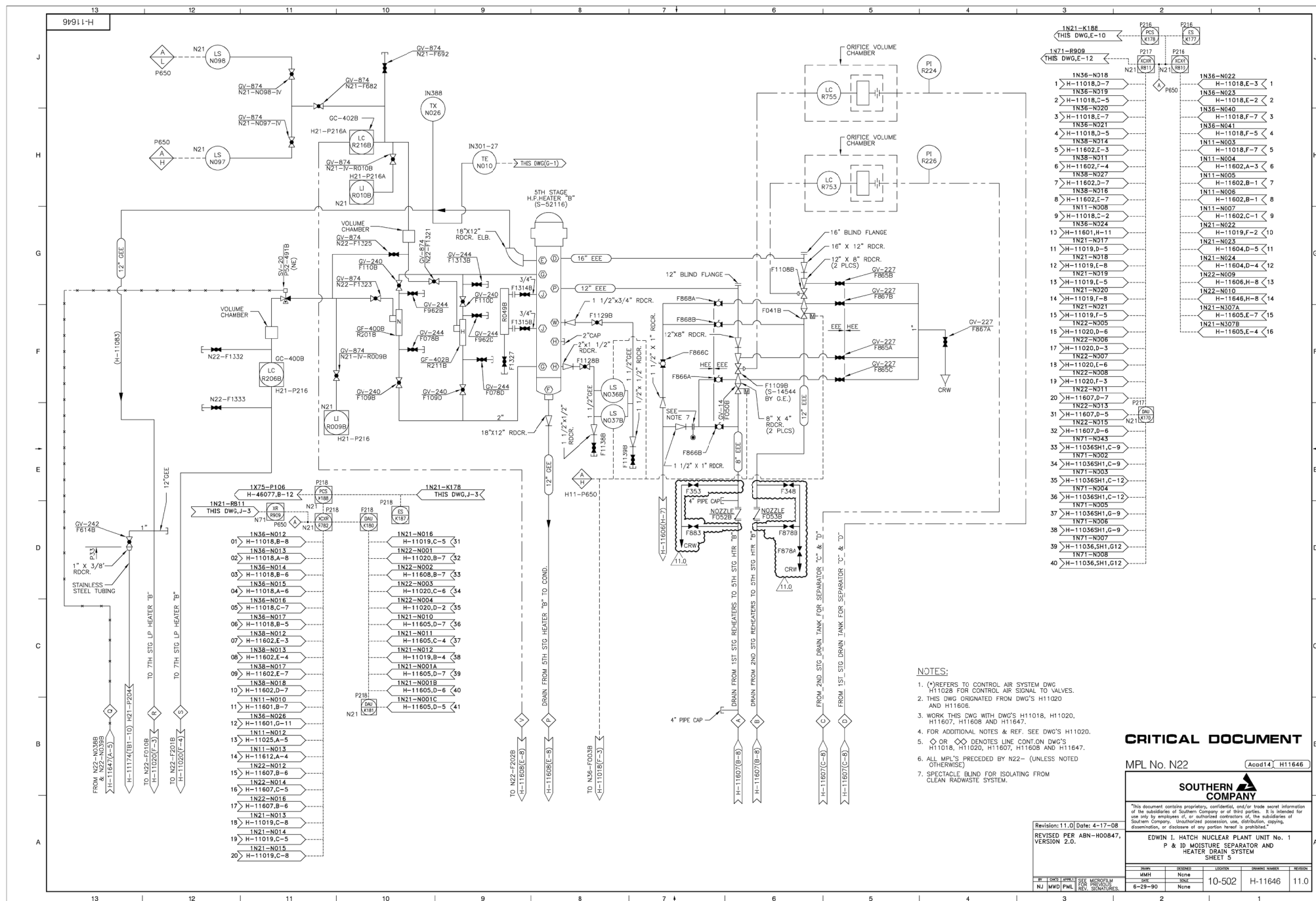
REVISED PER ABN  
1019000101-1, VER. 1.0

EDWIN I. HATCH NUCLEAR PLANT UNIT No. 1  
PIPING & INSTRUMENTATION DIAGRAM  
INSTRUMENT AIR AT HIGH PRESSURE  
AIR COMPRESSORS (SH. 2 OF 2)

DEPTH	DESIGNED	LOCATION	GRABING NUMBER	VELOCITY
BAS	None	10-502	H-11641	12
DATE	SOURCE			
11-00-00	None			

BY	CHG	APPL	SEE MICROFILM FOR PREVIOUS REV. SIGNATURES.
JLO	MLH	DEW	

12	DRAWING CATEGORY
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**CRITICAL DOCUMENT**

MPL No. N22

Acad14 H11646



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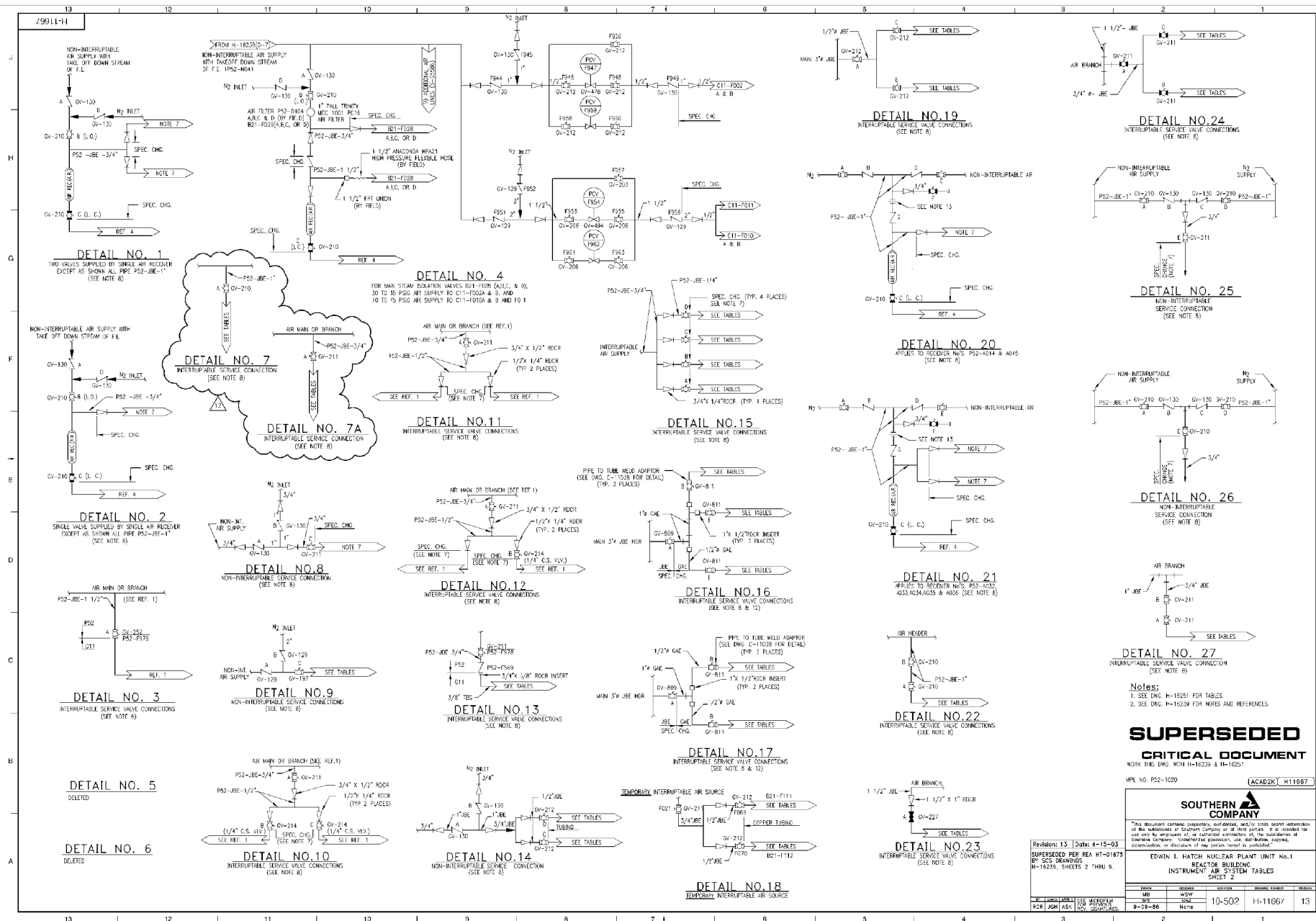
EDWIN I. HATCH NUCLEAR PLANT UNIT No. 1  
P & ID MOISTURE SEPARATOR AND  
HEATER DRAIN SYSTEM  
SHEET 5

Revision: 11.0	Date: 4-17-08
REVISED PER ABN-H00847	
VERSION 2.0	

VERSION 2.0.

BY	CHK'D	APPR'D	SEE FOR	MICROFILM
N.J.	MWD	PML	FOR	PREVIOUS

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**SUPERSEDED**  
**CRITICAL DOCUMENT**

WORK THIS DWS WITH H-16239 & H-16251

MPR NO. PS2-1020 (ACAD2C) H11667

# SOUTHERN COMPANY

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## EDWIN I. HATCH NUCLEAR PLANT Unit No.1 REACTOR BUILDING INSTRUMENT AIR SYSTEM TABLES SHEET 2

NO.	REVISION	DATE	BY	CHKD	APP'D	NO.	REVISION	DATE	BY	CHKD	APP'D
1	1	10-502	H-11667	13							

DATE	DESIGN	NO.	REV	DATE	BY	CHKD	APP'D	NO.	REV	DATE	BY	CHKD	APP'D
9-9-86	None												

2

1

**E.I. Hatch Nuclear Plant  
Unit No. 1 / 2**

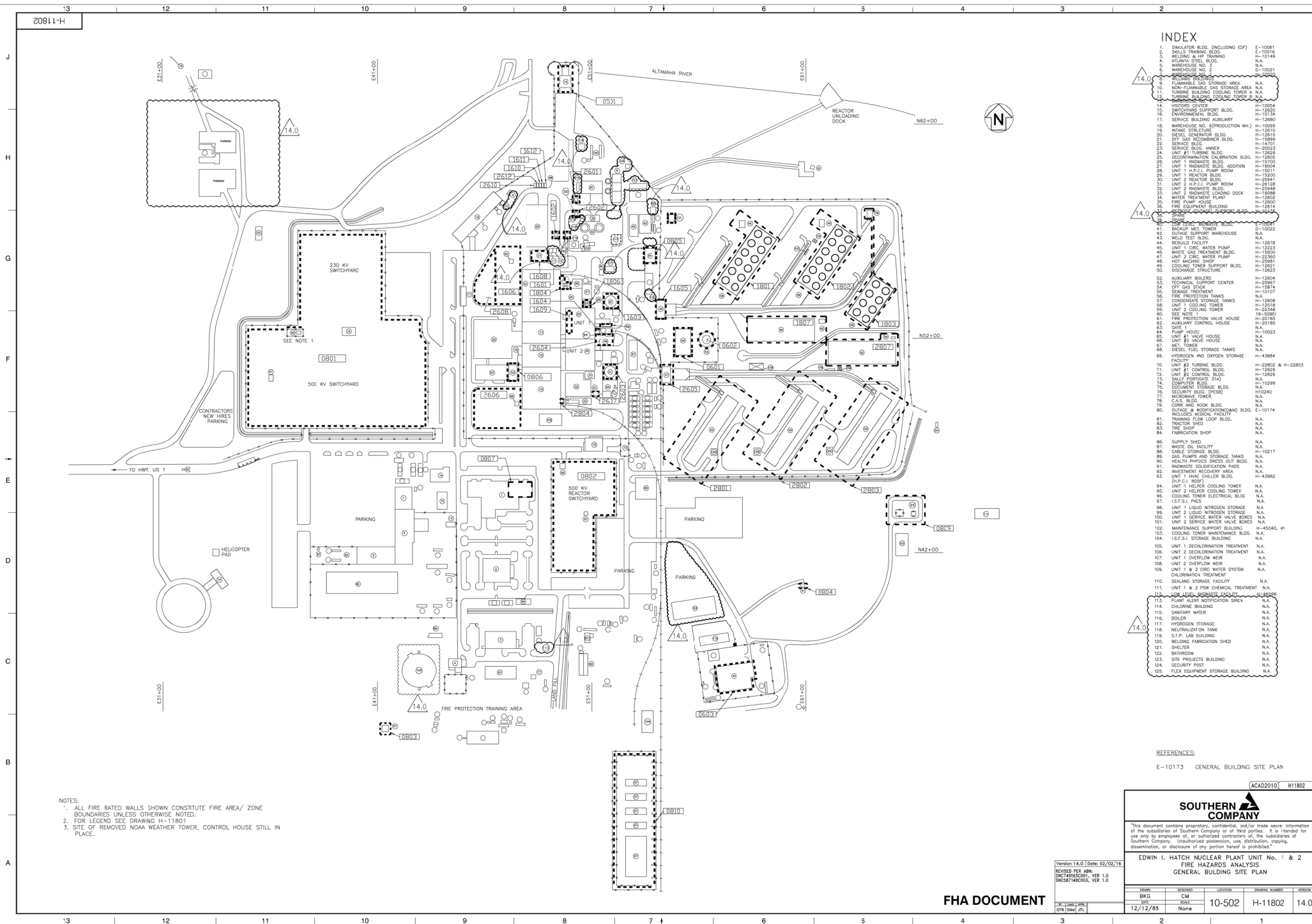
**Document Number:  
H11730**

**Document Title:  
HYPOCHLORINATION PIPING SYSTEM - PLAN  
CHLORINE BLDG EL. 128'-4"**

**VOIDED**

**Voided Per ABN-H01075, VER. 1.0  
and ABN 1040048701M027, VER. 3.0**

**Ver. 2.0**



INDEX	
1. SIMULATOR BLDG. (INCLUDING EPF)	E-10091
2. SKILLS TRAINING BLDG.	E-10016
3. WELDING & HP TRAINING	N.A.
4. ATLANTA STEEL BLDG.	N.A.
5. WAREHOUSE NO. 1	N.A.
6. WAREHOUSE NO. 2	Q-10021
7. WAREHOUSE NO. 3	N.A.
8. FLAMMABLE GAS STORAGE AREA	N.A.
9. NON-FLAMMABLE GAS STORAGE AREA	N.A.
10. TURBINE BUILDING COOLING TOWER A	N.A.
11. TURBINE BUILDING COOLING TOWER B	N.A.
12. SERVICE BLDG. ANNEX	H-14701
13. SERVICE BLDG.	H-14701
14. SERVICE BLDG. ANNEX	H-14701
15. SERVICE BLDG.	H-14701
16. SERVICE BLDG.	H-14701
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125. SERVICE BLDG.	H-14701

NOTES:  
1. ALL FIRE RATED WALLS SHOWN CONSTITUTE FIRE AREA/ ZONE BOUNDARIES UNLESS OTHERWISE NOTED.  
2. FOR LEGEND SEE DRAWING H-11801  
3. SITE OF REMOVED NOAA WEATHER TOWER, CONTROL HOUSE STILL IN PLACE.

REFERENCES:  
E-10173 GENERAL BUILDING SITE PLAN

ACAS2010 H11802

SOUTHERN COMPANY

EDWIN I. HATCH NUCLEAR PLANT UNIT No. 1 & 2

FIRE HAZARDS ANALYSIS

GENERAL BUILDING SITE PLAN

Version 14.0 | Date: 02/03/18

REVISED PER ABR: 02-1803001 VER 1.0

02-1803001 VER 1.0

02-1803001 VER 1.0

ISSUED	REVISION	LOCATION	ISSUANCE NUMBER	VERSION
BKG	CM			
12/12/83	None		10-502	H-11802
			14.0	

FHA DOCUMENT

















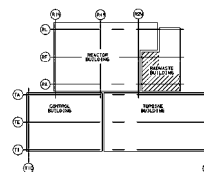




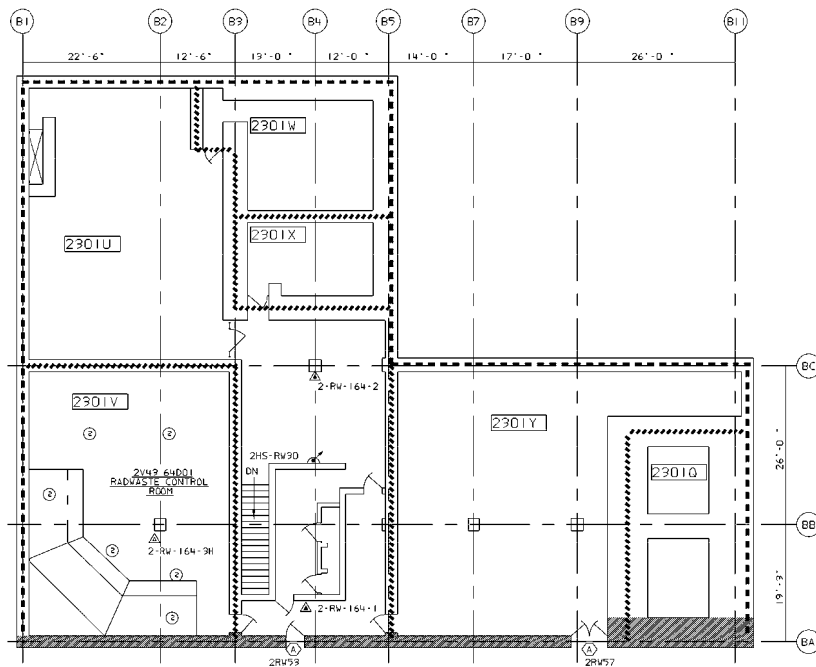




H-11844



KEY PLAN



## NOTES:

1. FOR LEGEND SEE DWG. H-11801
2. FOR GENERAL NOTES SEE DWG. H-11802

FHA DOCUMENT

(ACAD2K) H11844

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EDWIN I. HATCH NUCLEAR PLANT UNIT No. 2  
FIRE HAZARDS ANALYSIS  
RADWASTE BLDG. EL. 164'-0"

Version: 3.0 | Date: 7/5/11  
REVISED PER ABN  
21018-SOUTHWEST, VER. 1.0  
(DRAWING CORRECTION)

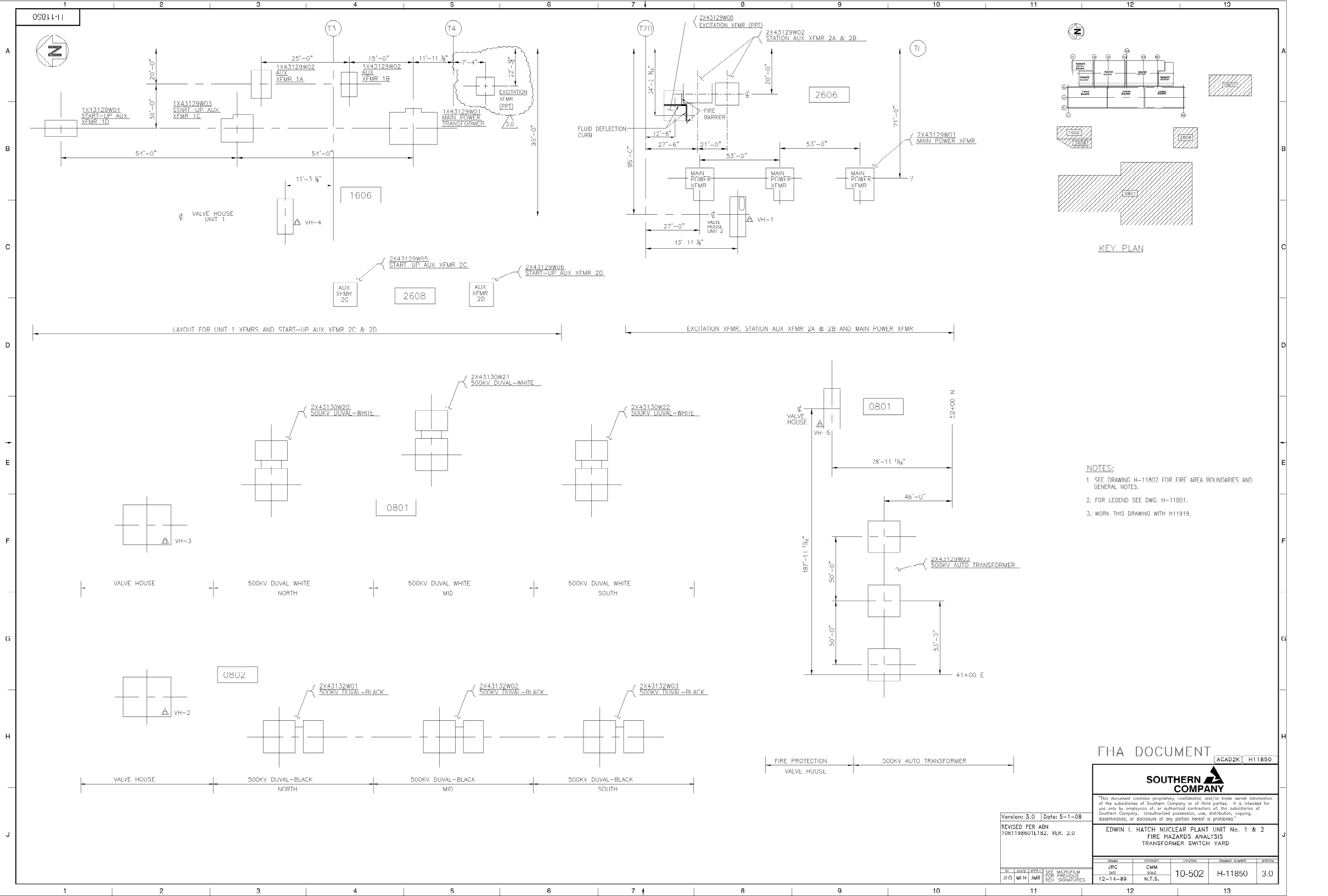
DCP ELC JWP SEE WORKSHEET FOR SIGNATURES

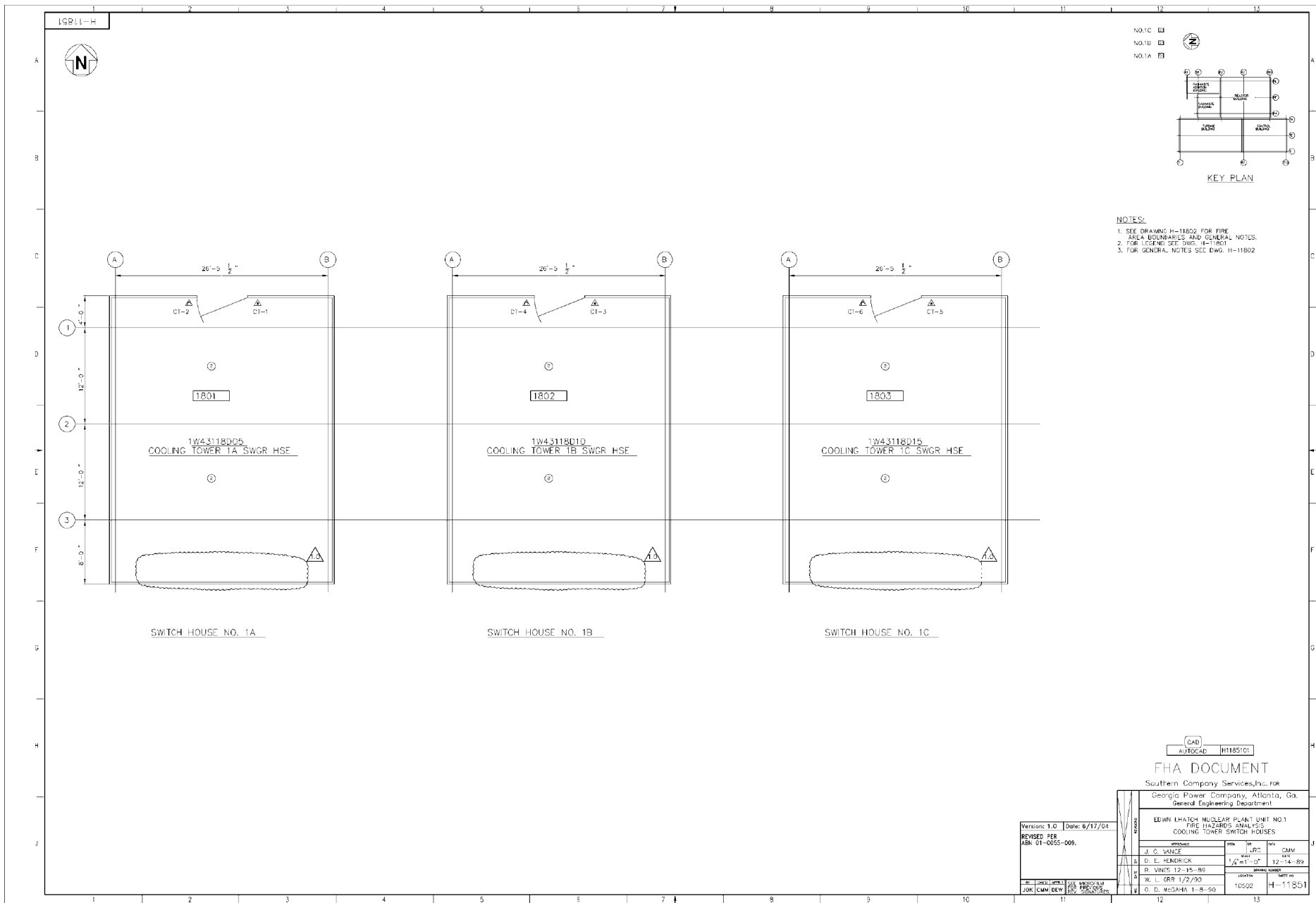
NO.	DATE	BY	CHKD.	APPD.	REV.
10-502	12-14-89	None	None	None	1/8"=1'-0"

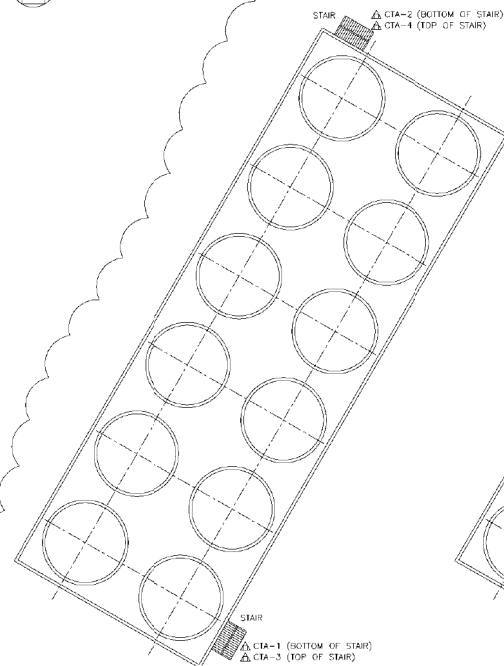
3.0



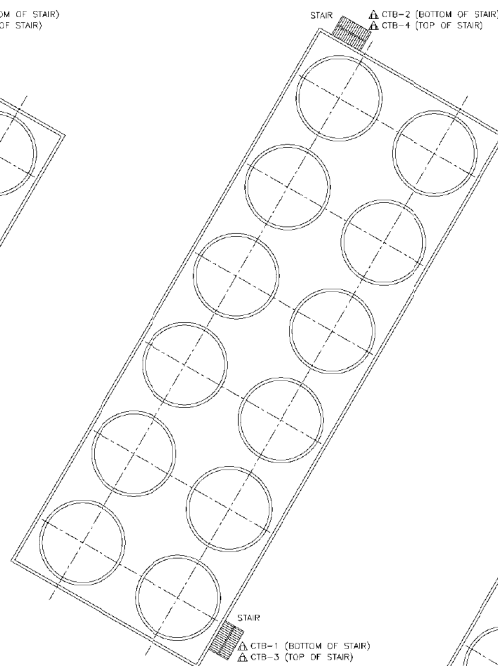




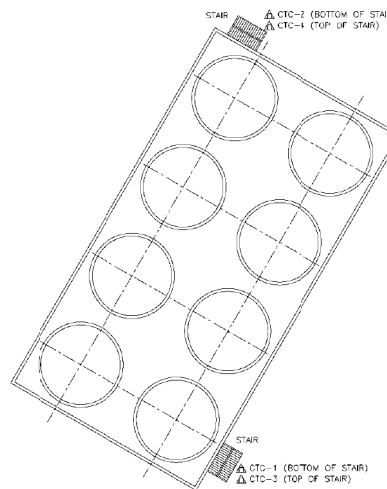




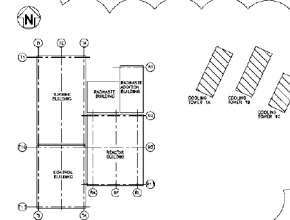
1801  
COOLING TOWER 1A



1802  
COOLING TOWER 1B



1803  
COOLING TOWER 1C



KEY PLAN

- NOTES:
1. FOR LEGEND SEE DWG. H-11801
  2. FOR GENERAL NOTES SEE DWG. H-11802

FHA DOCUMENT

ACAD H11854

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Version: 2.0 Date: 7/7/04

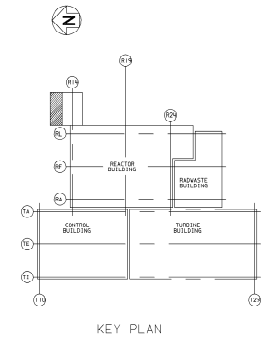
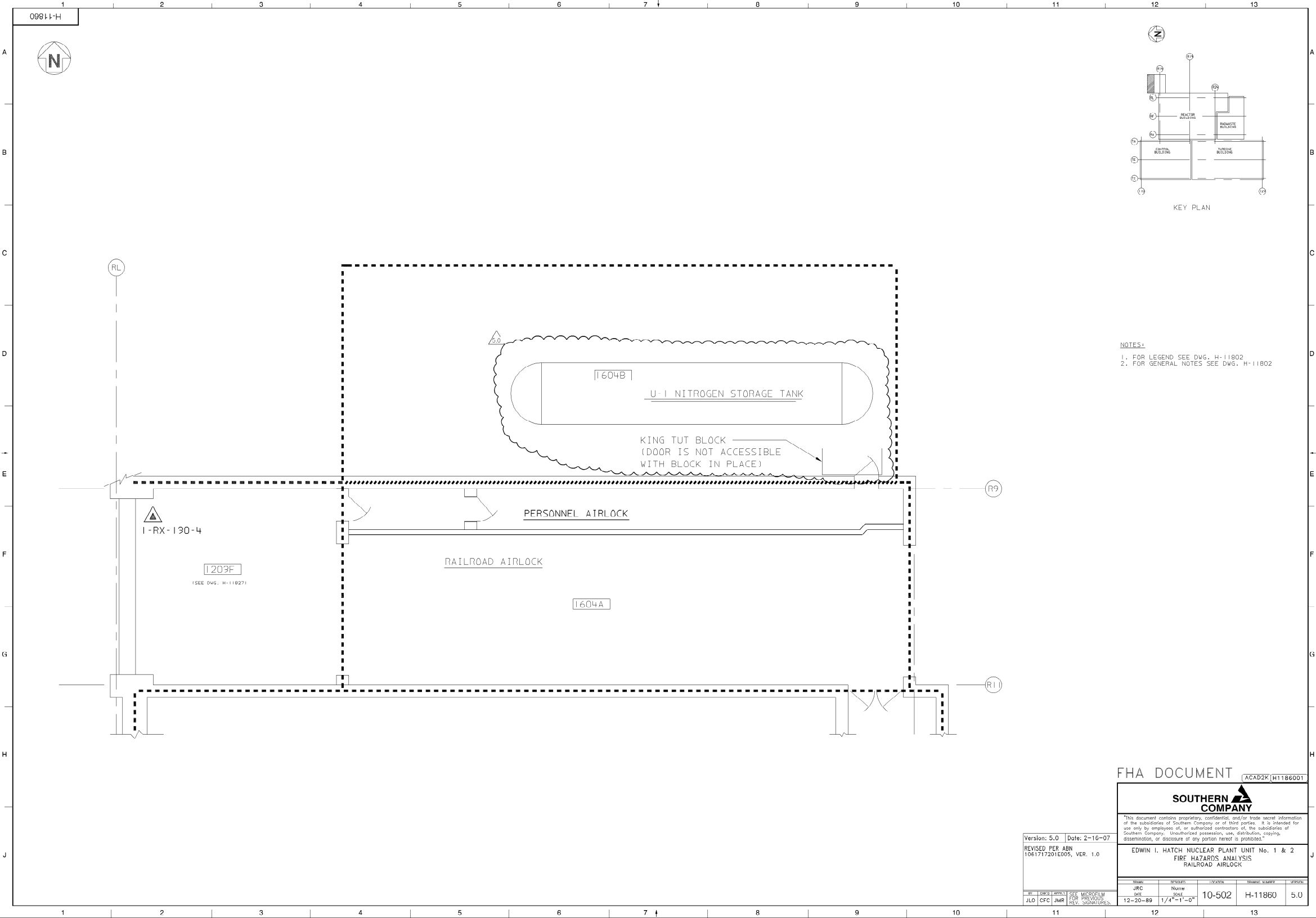
REVISED PER  
ABN 01-0055-009.

EDWIN L. HATCH NUCLEAR PLANT UNIT NO. 1  
FIRE HAZARD ANALYSIS  
COOLING TOWERS 1A, 1B, & 1C

DATE	REVISION	LOCATION	REVISION NUMBER	REVISION
08/01/04	CM			
08/01/04	SCM			
12-12-88	None	10-502	H-11854	2.0

BY: JOK (CWM/ICW) SEE MICROFILM FOR HISTORY  
REV. SIGNATURES





- NOTES:
- 1. FOR LEGEND SEE DWG. H-11802
  - 2. FOR GENERAL NOTES SEE DWG. H-11802

FHA DOCUMENT ACAD2K|H1186001

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EDWIN I. HATCH NUCLEAR PLANT No. 1 & 2  
FIRE HAZARDS ANALYSIS  
RAILROAD AIRLOCK

TRAIN	REVISION	LOCATION	TRAIN NUMBER	SPRINK
JRC	None			
DATE	SCALE			
12-20-89	1/4"=1'-0"	10-502	H-11860	5.0

Version: 5.0   Date: 2-16-07			
REVISED PER ABN 1061717201E005, VER. 1.0			
BY	DATE	APPROVED	FOR PREVIOUS REV. SIGNATURES
JLO	GFC	JMR	



**E.I. Hatch Nuclear Plant  
Unit No. 1 / 2**

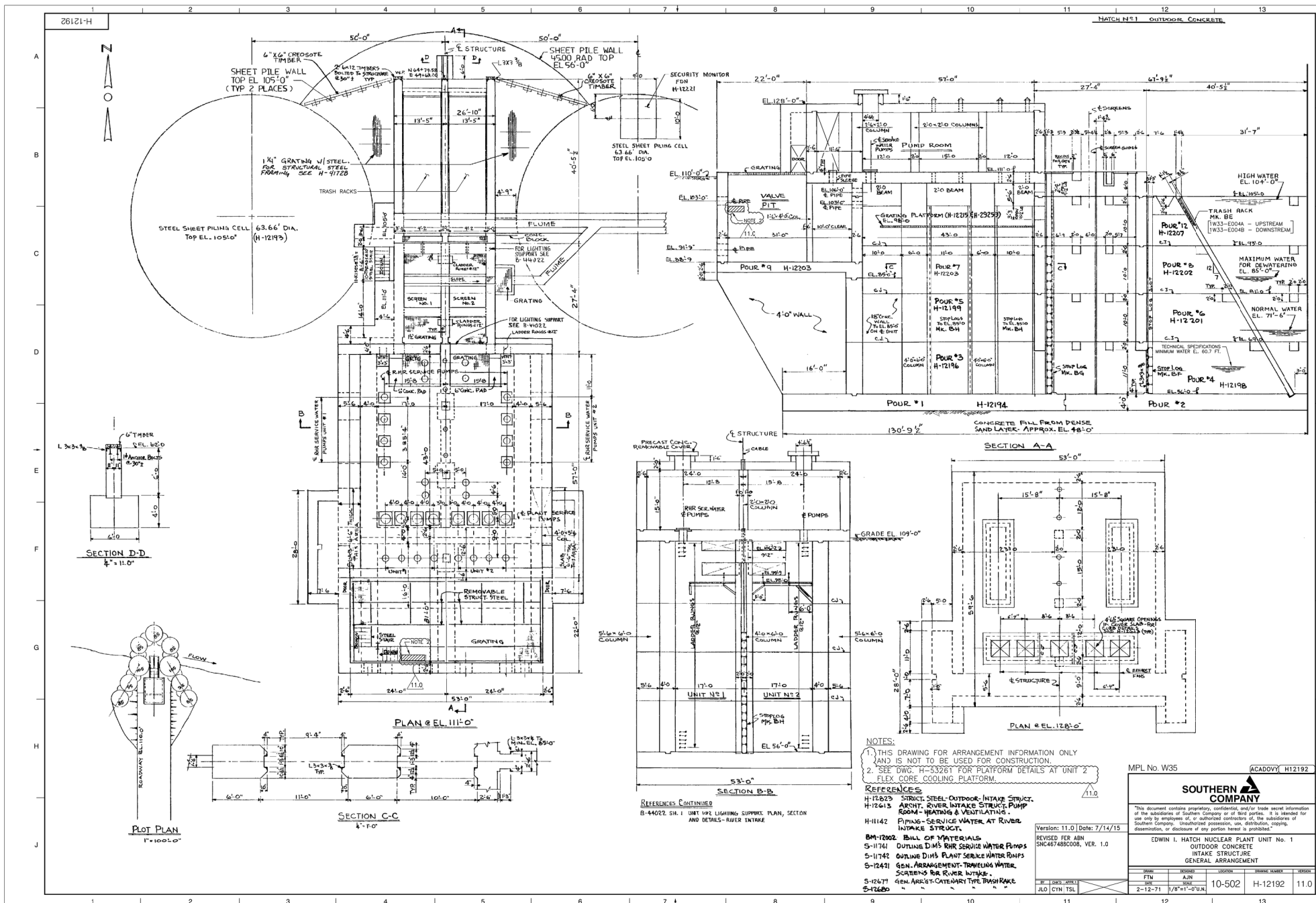
**Document Number:  
H-11982**

**Document Title:  
WATER TREATMENT SYSTEM P&ID  
SHEET 1 OF 2**

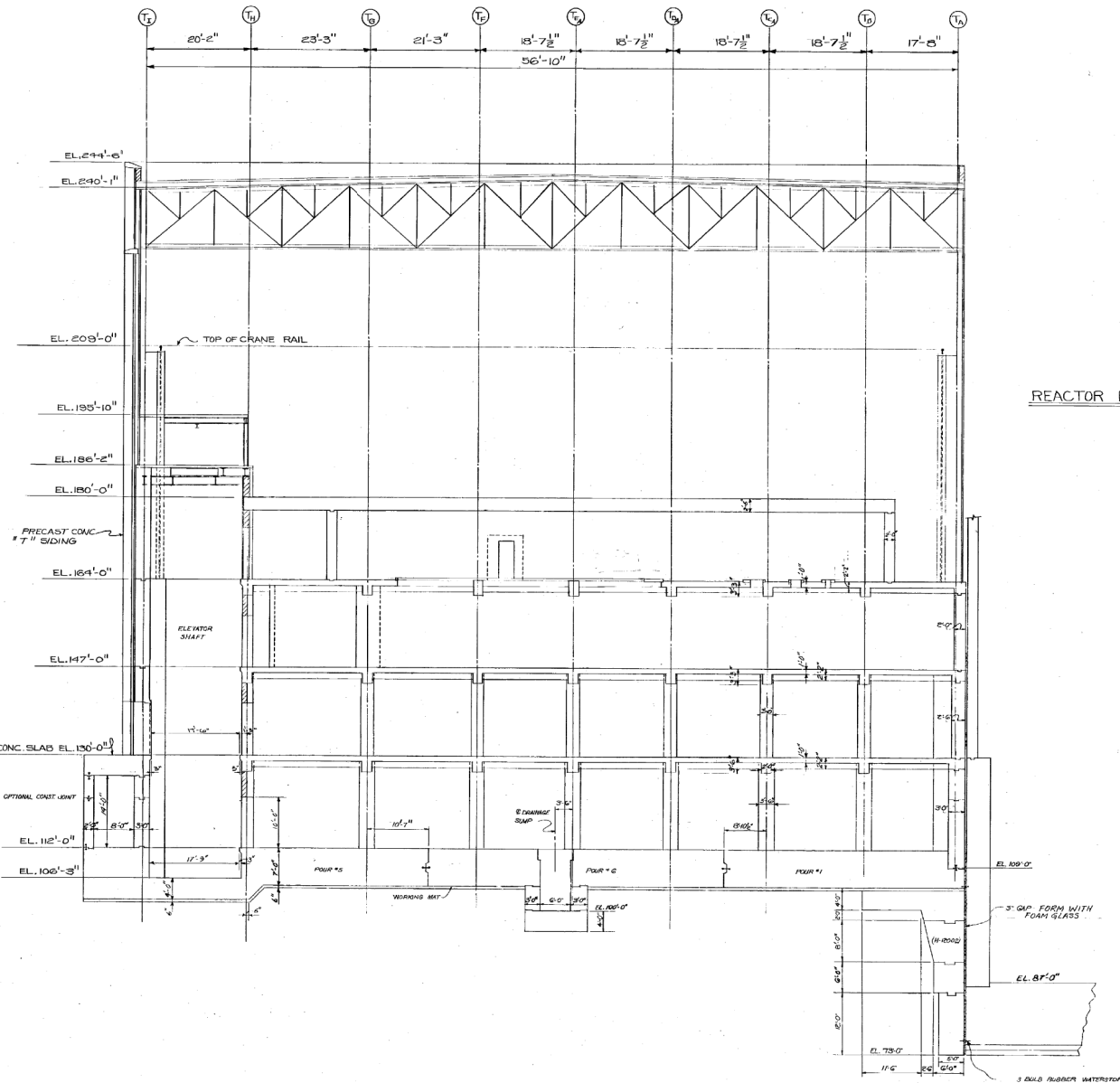
**SUPERSEDED BY:  
H-43801**

**Superseded Per ABN-H00256, Ver. 1.0**

**Ver. 17.0**







# REACTOR BUILDING

## NOTES:

THIS DRAWING FOR ARRANGEMENT AND INFORMATION ONLY AND IS NOT TO BE USED FOR CONSTRUCTION.

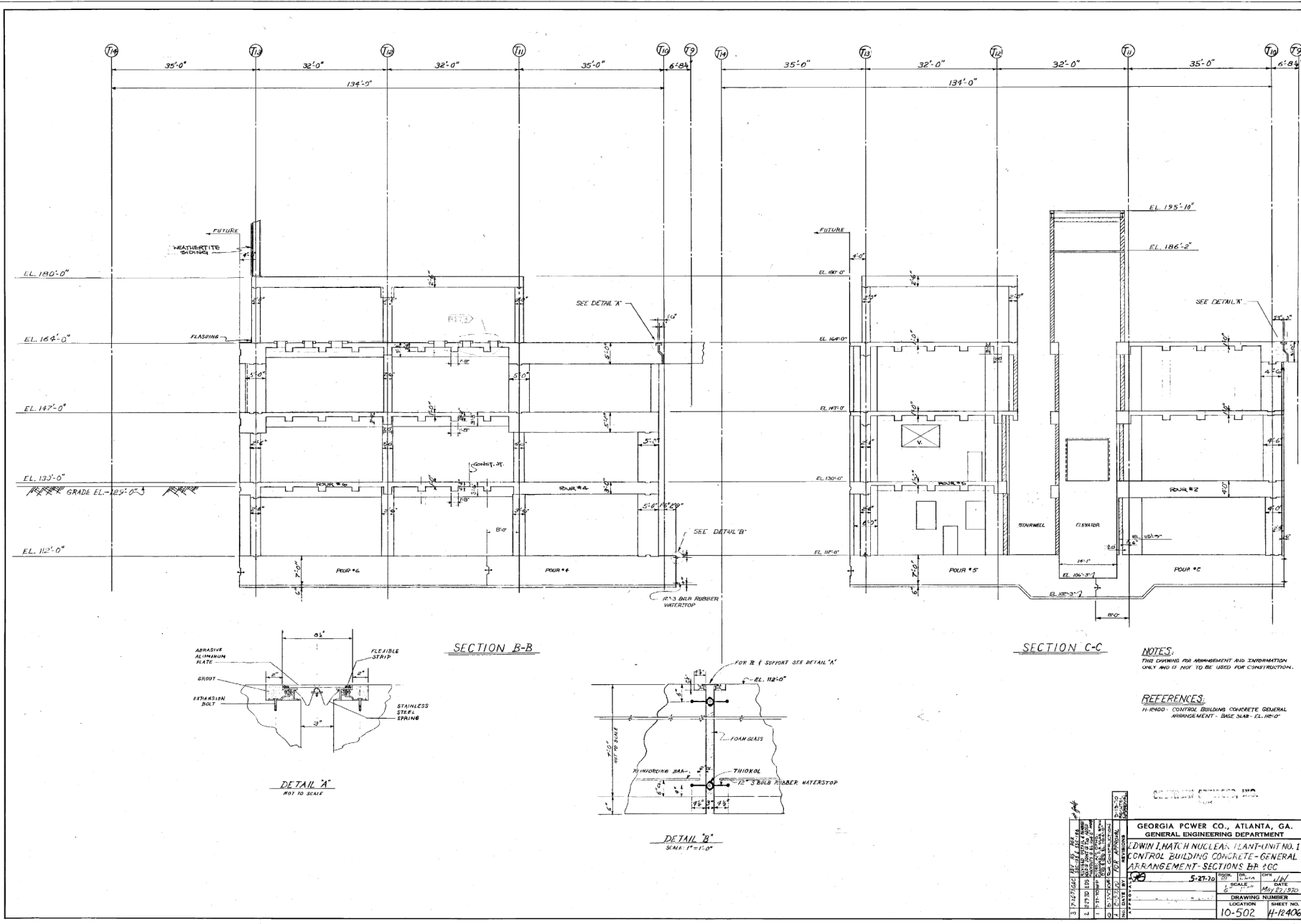
## REFERENCES:

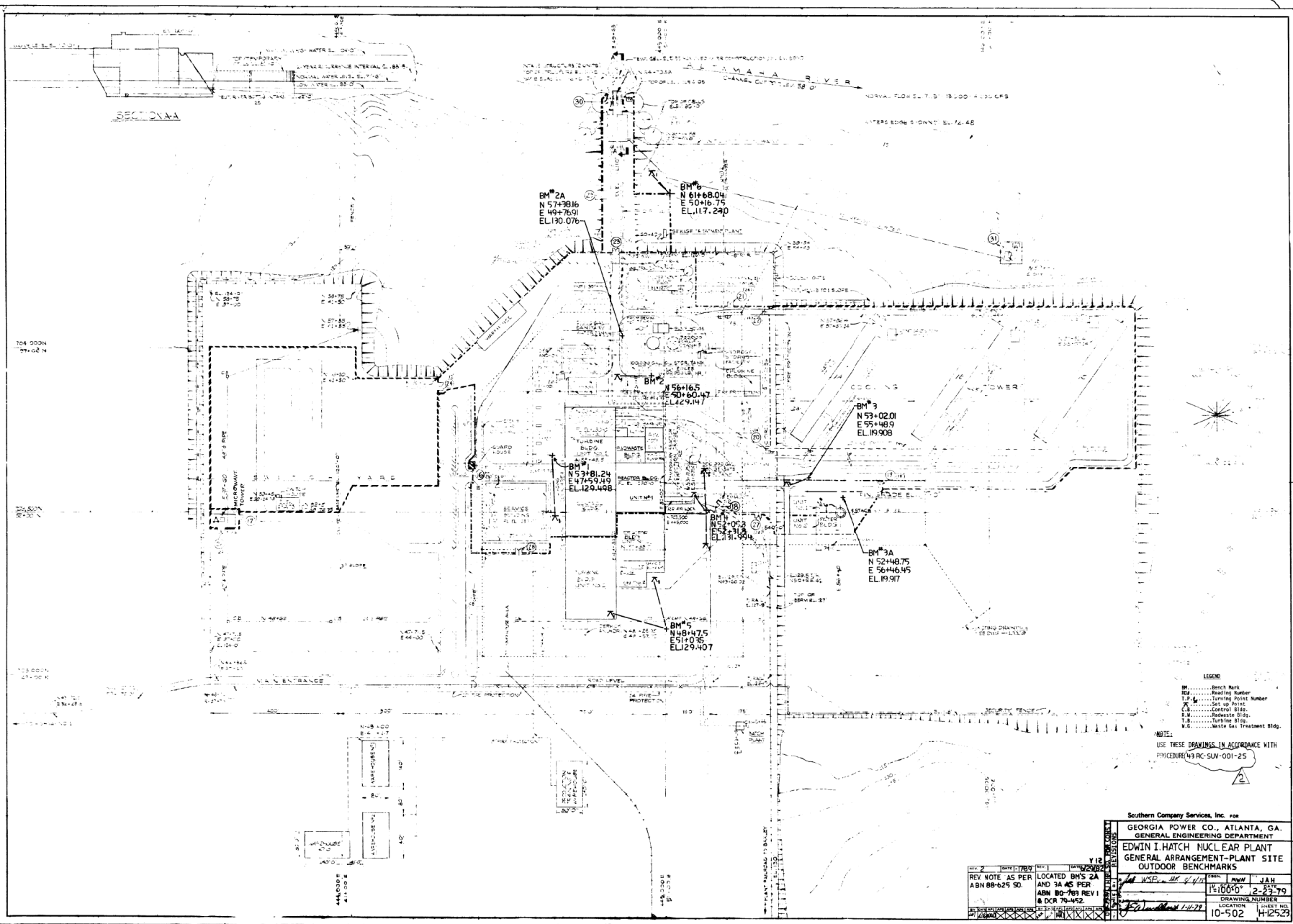
H-12402 CONTROL BUILDING CONC. - GENERAL ARRANGEMENT - BASE SLAB EL. 112'-0"

SOUTHERN SERVICES, INC.  
FOR

GEORGIA POWER CO., ATLANTA, GA.  
GENERAL ENGINEERING DEPARTMENT  
EDWIN HATCH NUCLEAR PLANT, UNIT #1  
CONTROL BUILDING CONCRETE - GENERAL  
ARRANGEMENT - SECTION A-A

DESIGNED BY	5-27-70	DATE	11/27/70
CHECKED BY		SCALE	1" = 1'-0"
DRAWING NUMBER		LOCATION	1-2-5
SHEET NO.	4-12405		







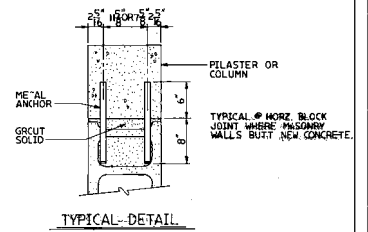
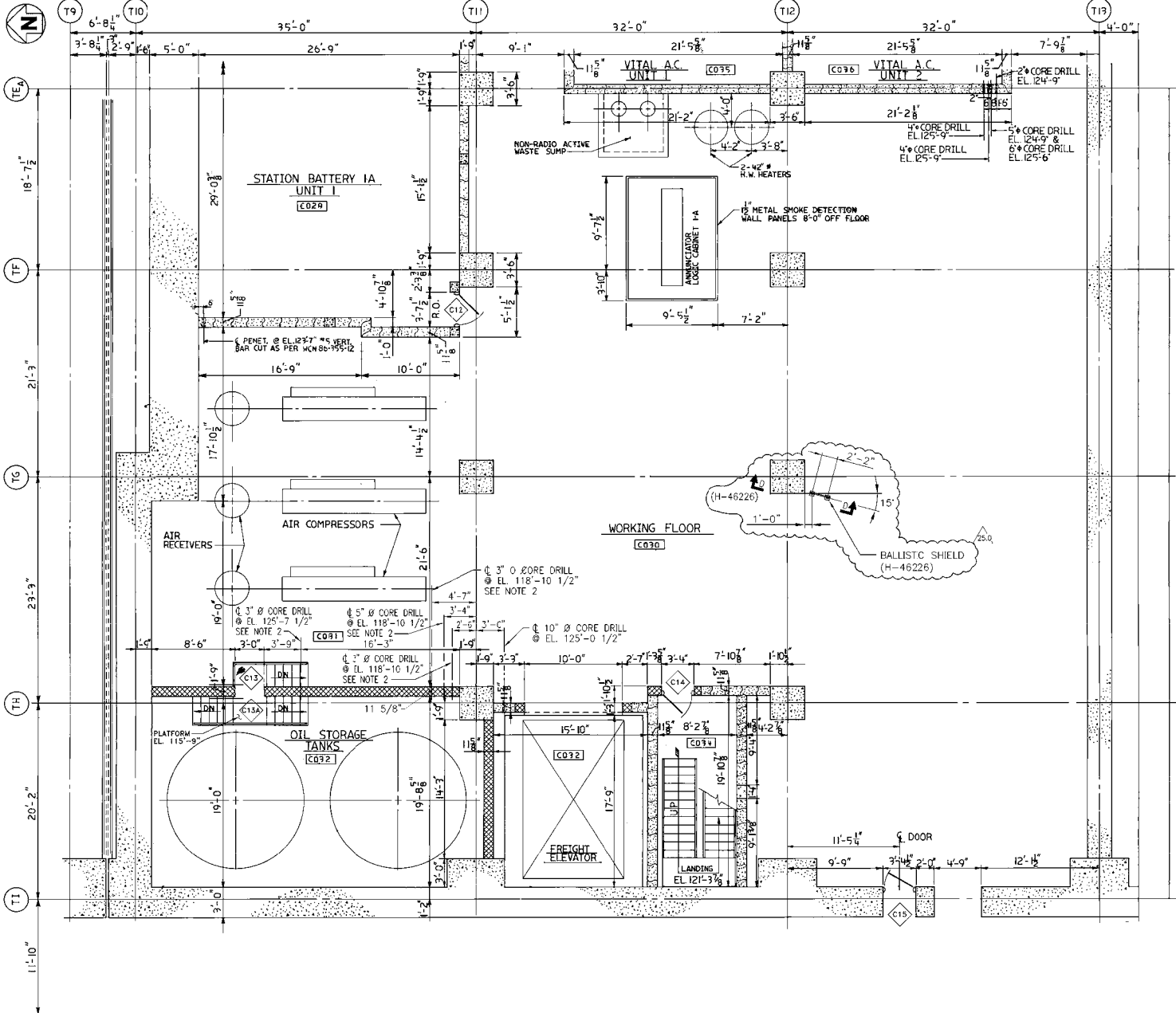








62921-H



- NOTE:**
- FOR GENERAL NOTES, SEE DWG. NO. H-15850
  - FOR CONDUIT PENETRATIONS REFERENCED TO THIS NOTE SEE DRAWING S-57321. REFER TO DRAWING H-29055 & H-40402 FOR CORE DRILLING PROCEDURES.

0VY2007 H12629

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EDWIN I. HATCH NUCLEAR PLANT UNIT No. 1  
ARCHITECTURAL  
CONTROL BUILDING PARTIAL PLAN • EL. 112'-0"

Version: 25.0 | Date: 3-30-11  
REVISED PER ABN-H0232,  
VERSION 1.0

DATE	BY	CHKD	APP'D	REV	DESCRIPTION
12-12-84	LPM	LPM	AAH	1/4"	1'-0"
10-502	H-12629	25.0			







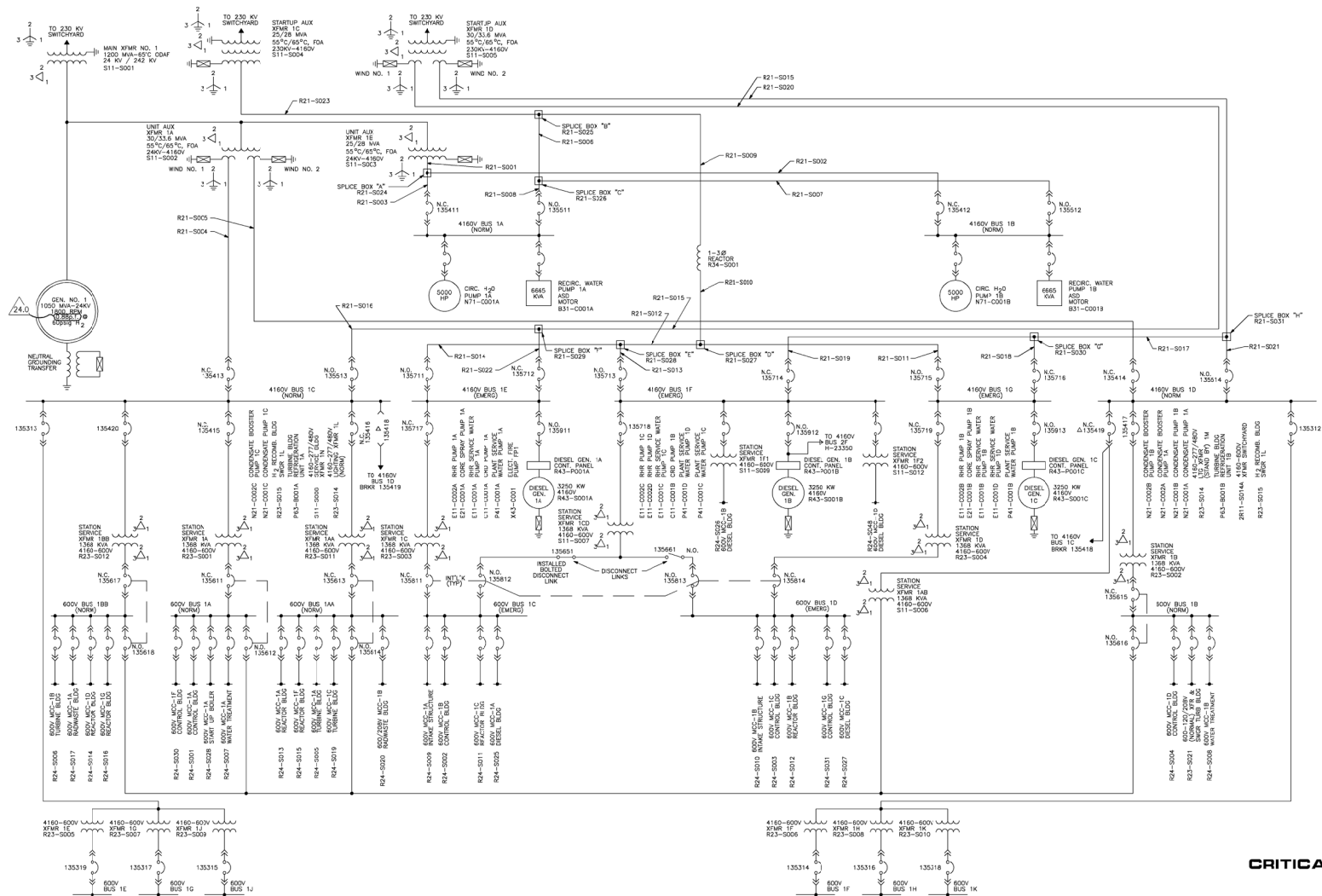




H-13350

NOTES:

1. A ONLY ONE BREAKER DRAWOUT MECHANISM IS FURNISHED FOR THESE TWO BREAKER POSITIONS. THIS BREAKER SHOULD BE RELOCATED, AS NEEDED, TO THE 4KV SWITCHGEAR BUS NORMALLY FEEDING THE FAILED TRANSFORMER BEING SPARED BY STANDBY TRANSFORMER 14B.
2. DELETED



CRITICAL DOCUMENT

ACAD2C H13350

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Version: 24.0 | Date: 05/31/15

REVISED PER ADC

SNC344891 0001, VER 1.0

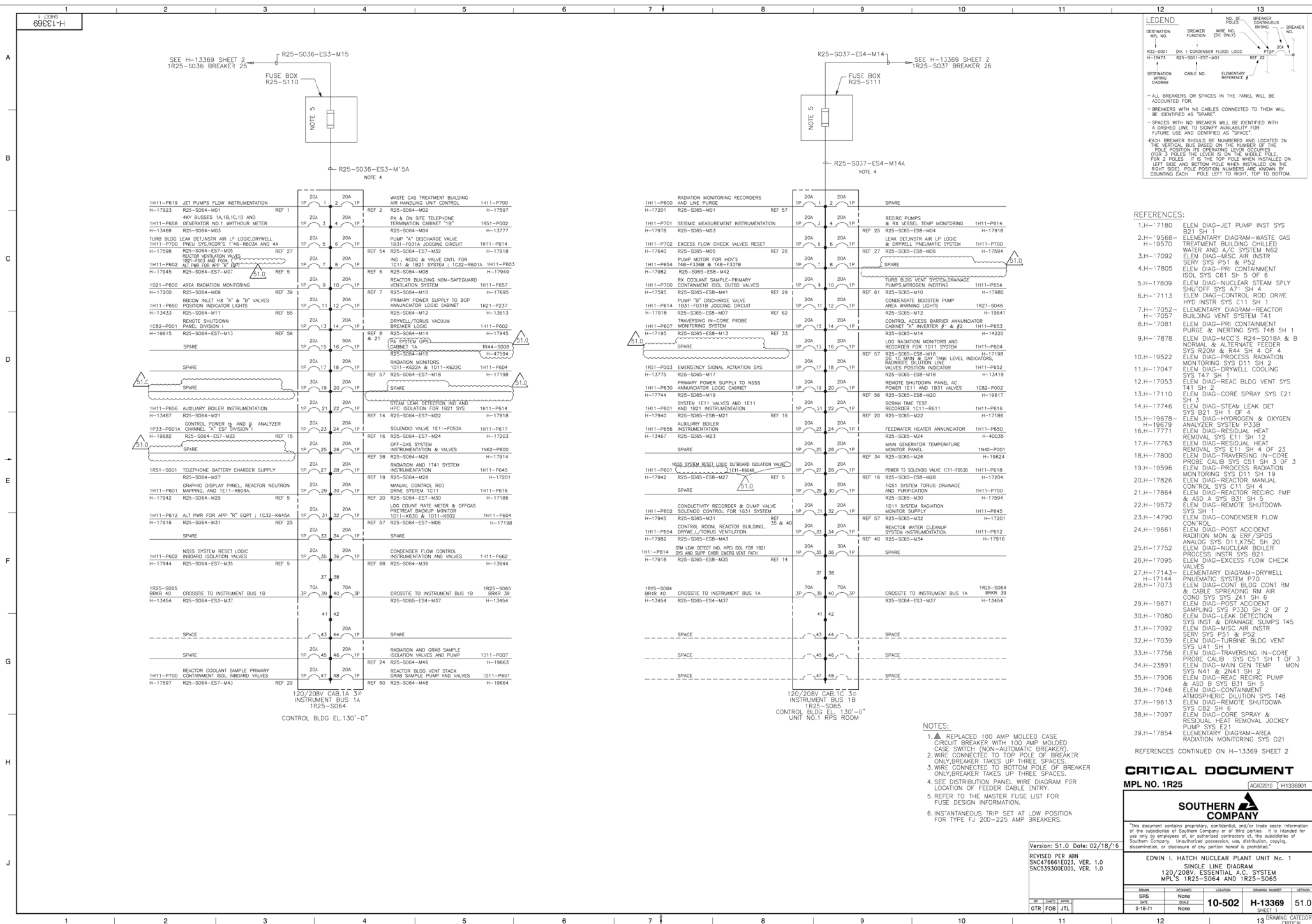
EDWIN I. HATCH NUCLEAR PLANT UNIT No. 1  
MASTER SINGLE LINE DIAGRAM

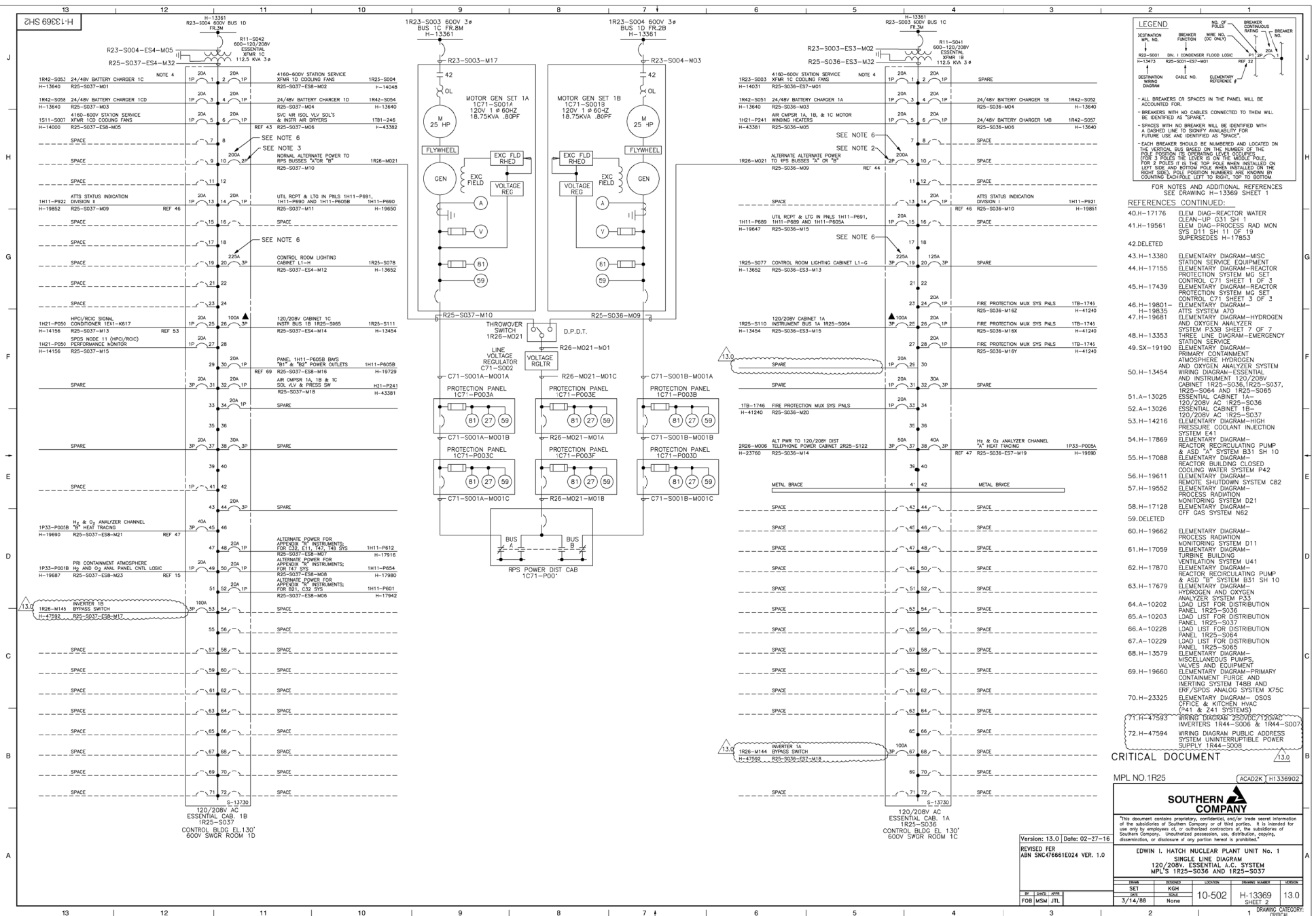
DATE	BY	CHKD	APPD	LOCATION	DRAWING NUMBER	VERSION
6-24-77	JTF	DAB	JTL	None	10-502	H-13350 24.0

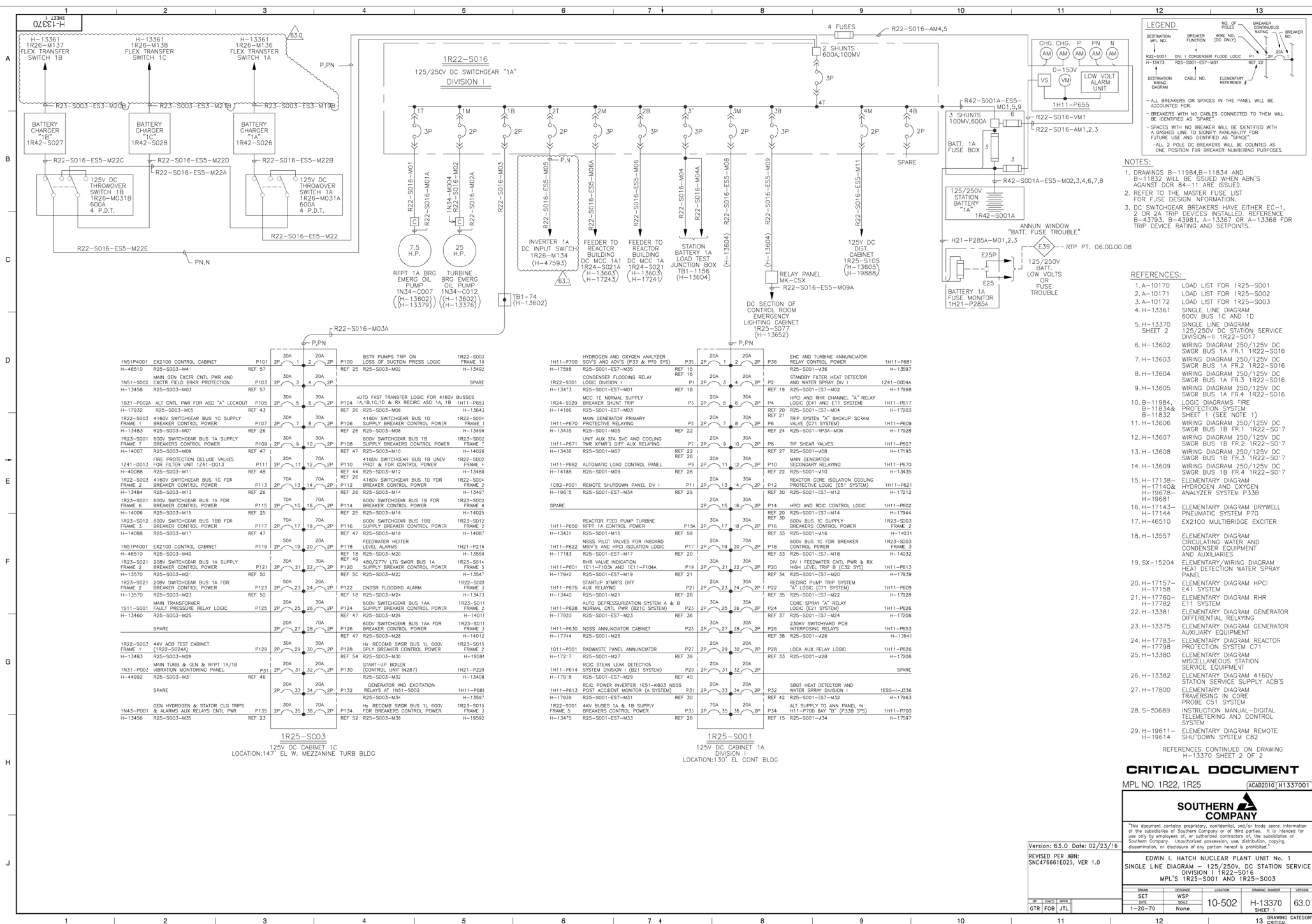
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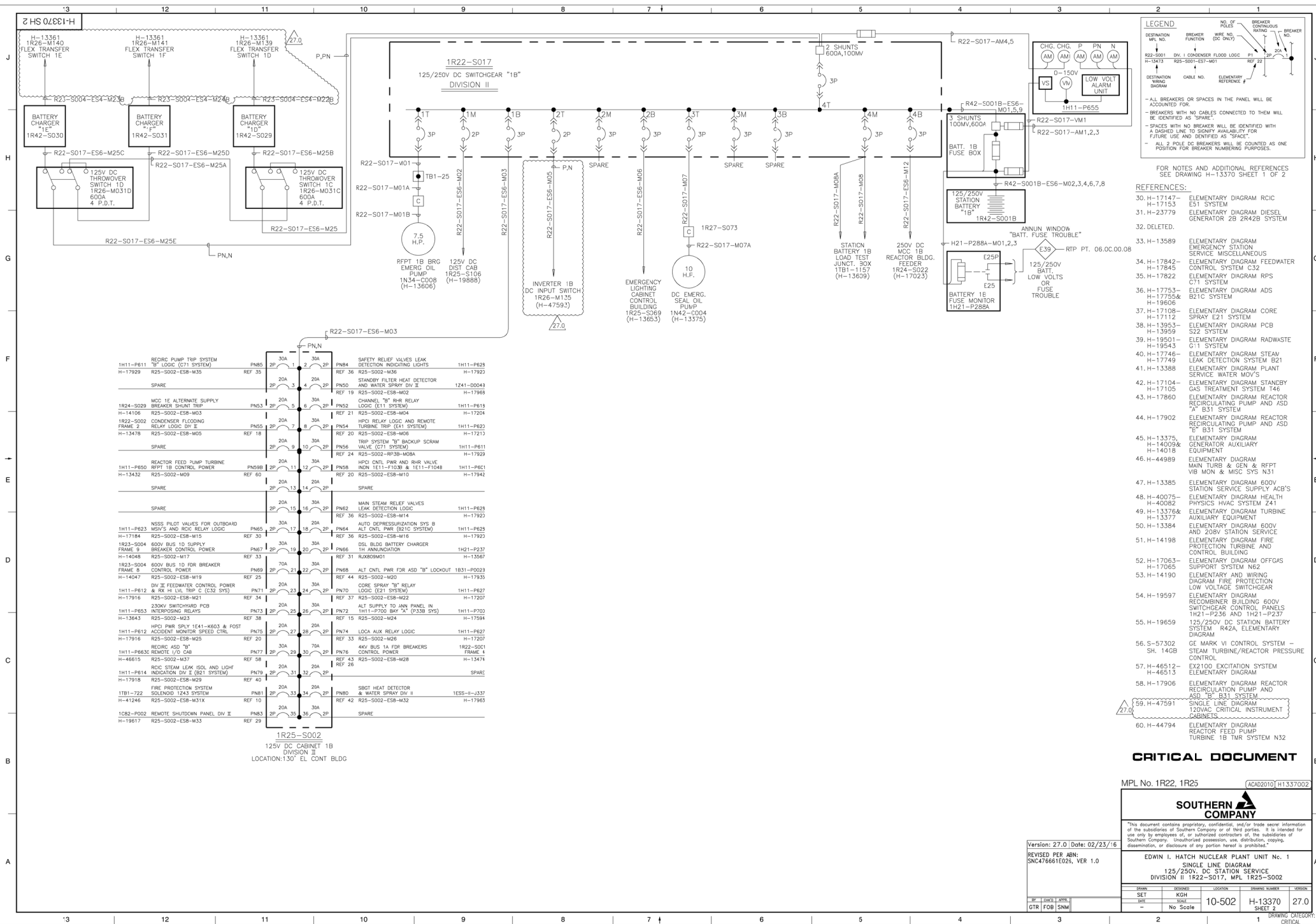
13 CRITICAL



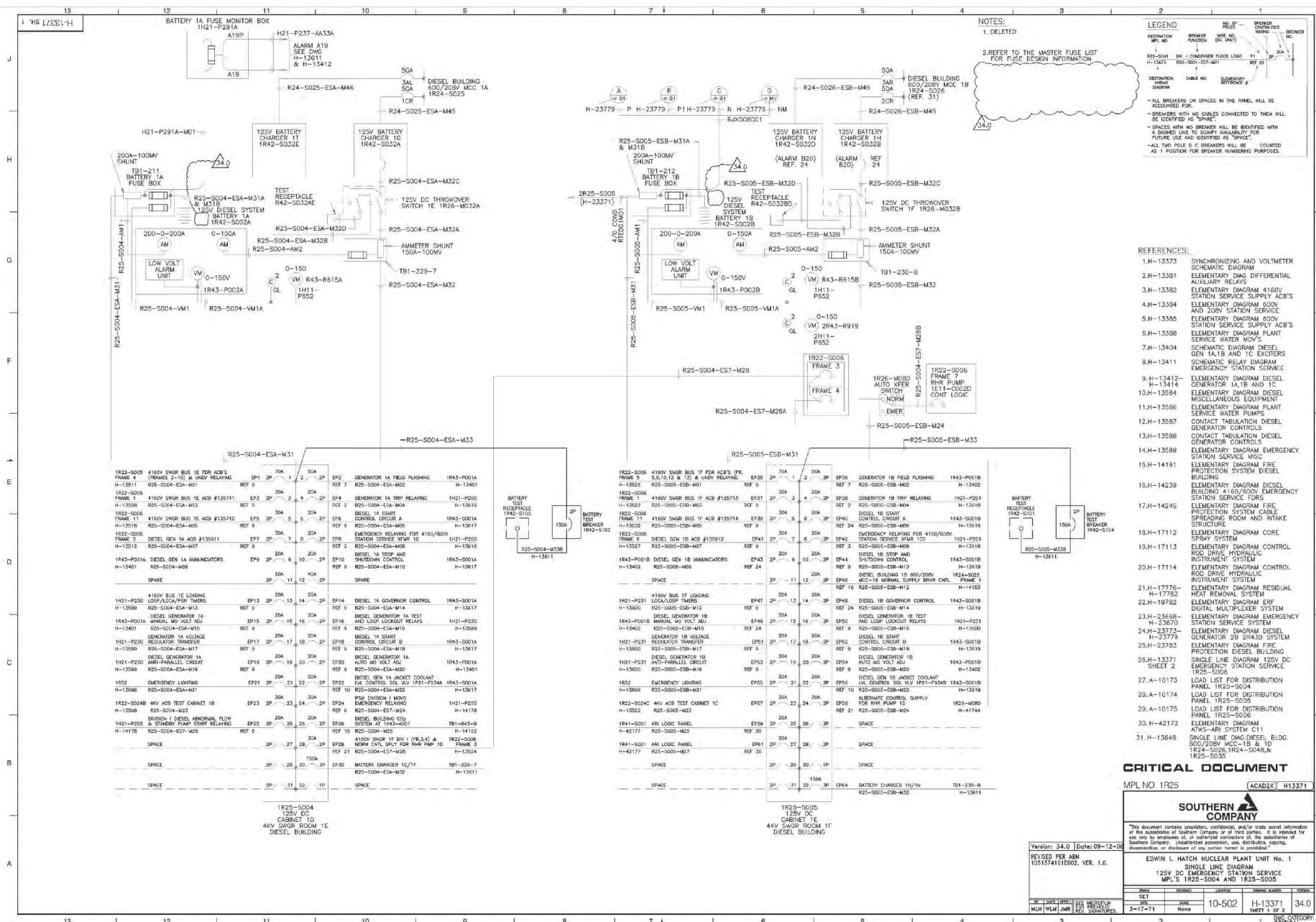




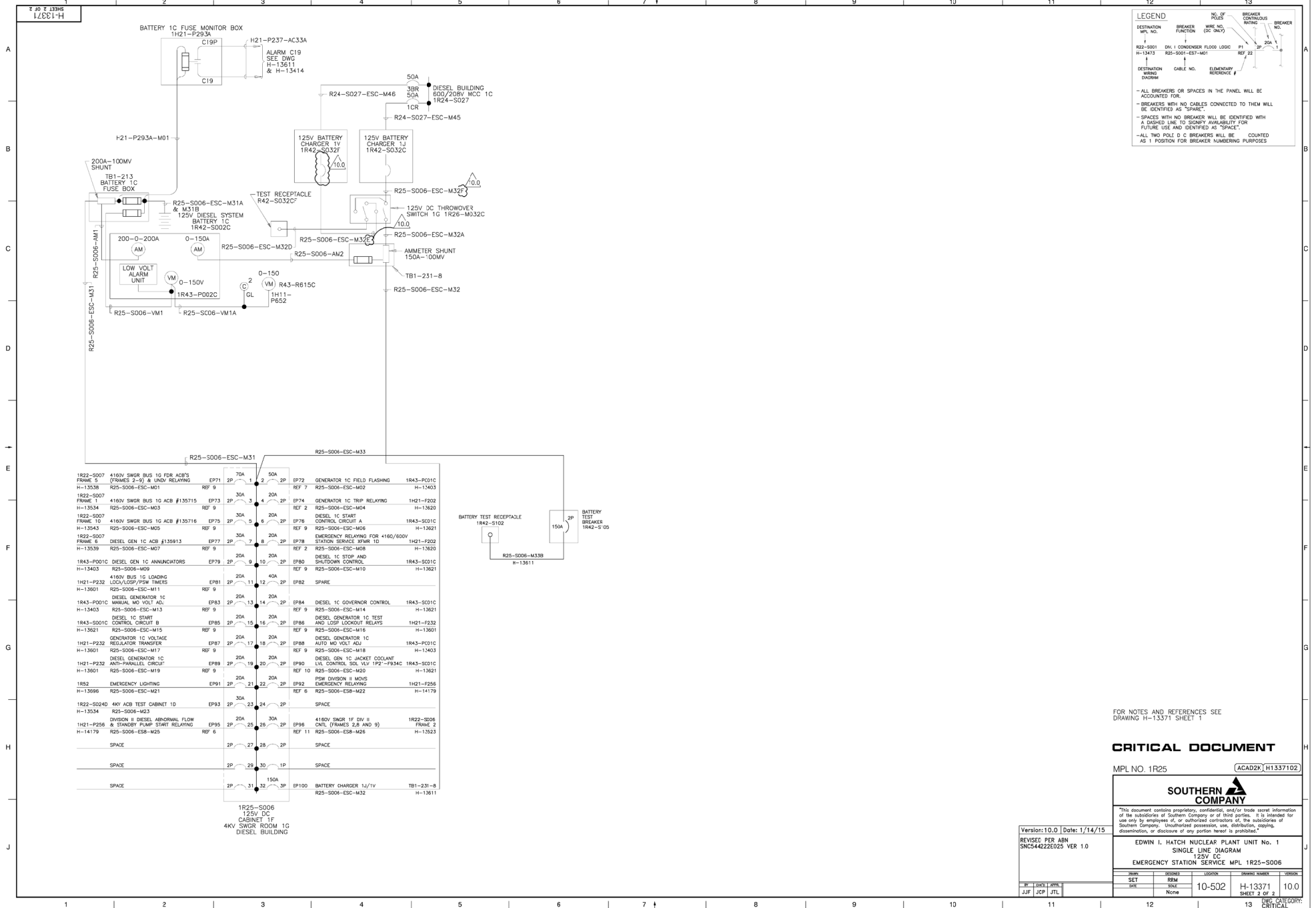












FOR NOTES AND REFERENCES SEE  
DRAWING H-13371 SHEET 1

**CRITICAL DOCUMENT**

MPL NO. 1R25

ACAD2K H1337102

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EDWIN I. HATCH NUCLEAR PLANT UNIT No. 1  
SINGLE LINE DIAGRAM  
125V DC  
EMERGENCY STATION SERVICE MPL 1R25-S006

Version: 10.0	Date: 1/14/15
---------------	---------------

REVISED PER ABN  
SNC544222E025 VER 1.0

1000

1000

Page 10 of 10

BT	CHK'D	APPR.
JIF	JCP	JTL

11

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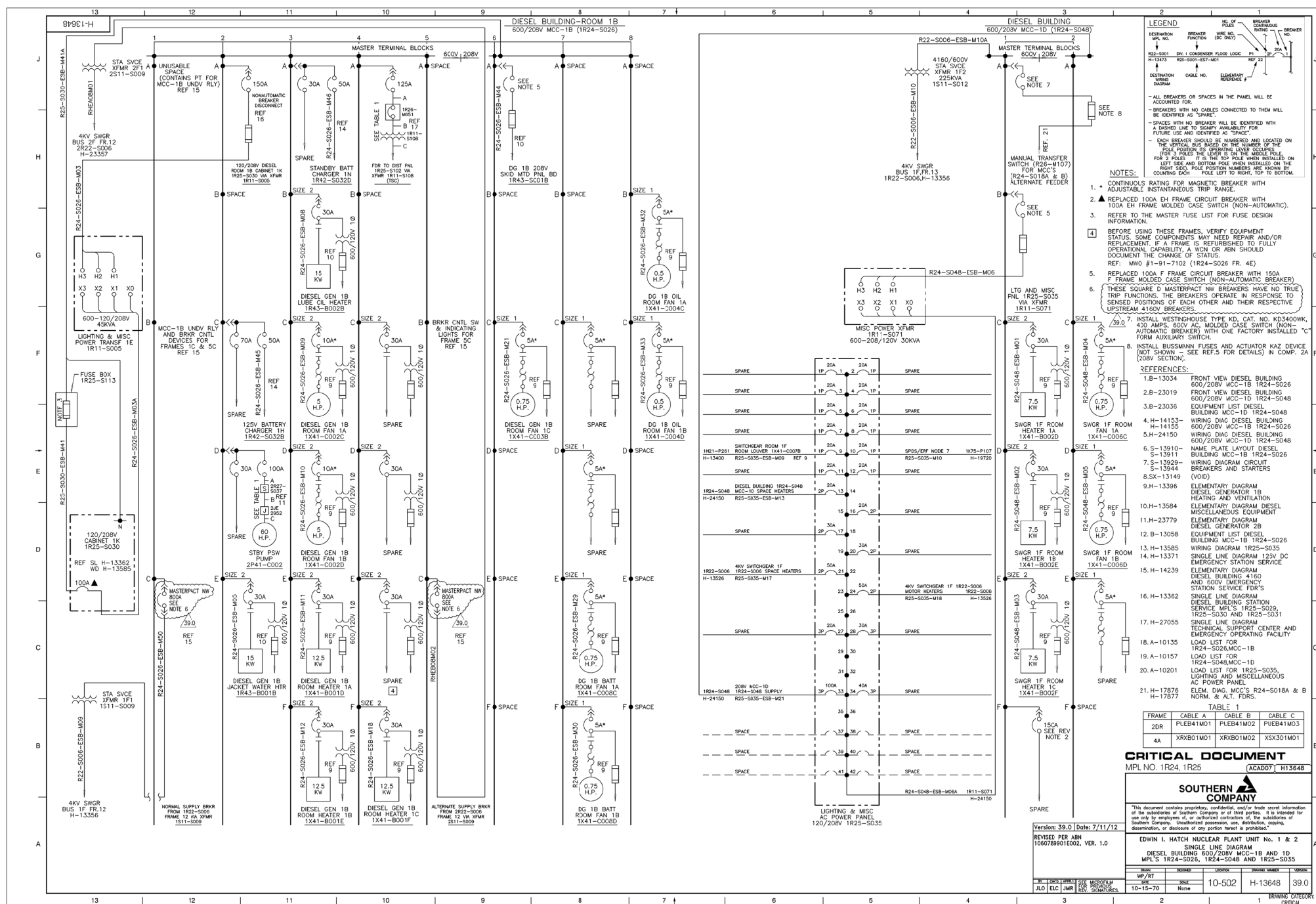
NAME	DESIGNED	LOCATION	DRAWING NUMBER	VERSION
------	----------	----------	----------------	---------

SET	RPM	10-502	H-13371	10.0
DATE	SOLE			

	None	10-000	SHEET 2 OF 2	
--	------	--------	--------------	--

12	13	DWG CATEGORY CRITICAL
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Version: 39.0	Date: 7/11/12
REVISED PER ABN 1060783901E002, VER. 1.0	

REVISED PER ABN  
1060789901E002, VER. 1.0

EDWIN I. HATCH NUCLEAR PLANT UNIT No. 1 & 2

EDWIN I. HATCH NUCLEAR PLANT UNIT No. 1 & 2  
SINGLE UNIT DIAGRAM

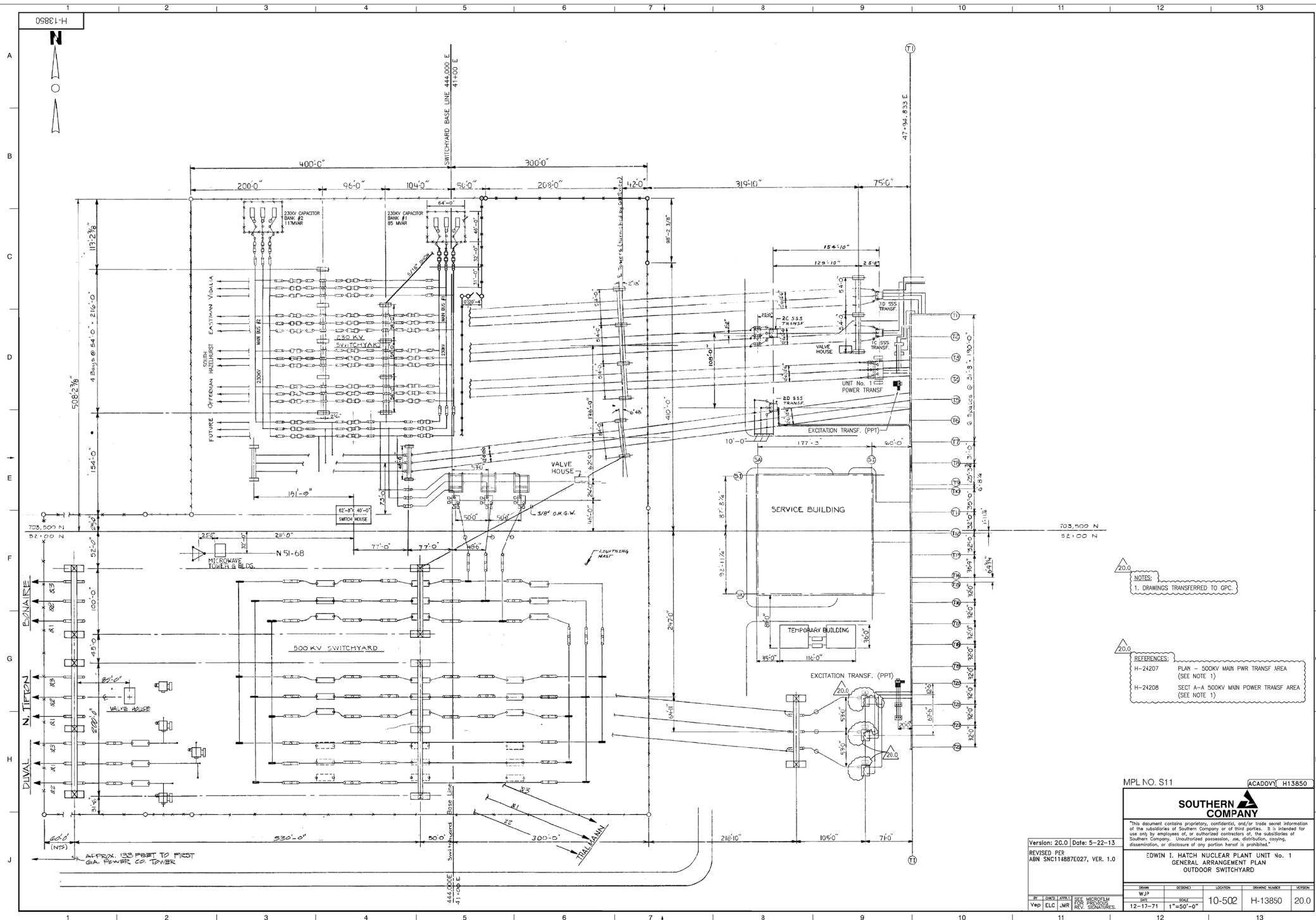
DIESEL BUILDING 600/208V MCC-1B AND 1D  
MPI'S 1R24-S026, 1R24-S048 AND 1R25-S035

DRAIN	DESIGNED	LOCATION	DRAWING NUMBER	YR
-------	----------	----------	----------------	----

WP/RT		10-502	H-13648	39
DATE	SOLR			

10-15-70	None				
DRAWING DATE					

2	1	CRITICAL
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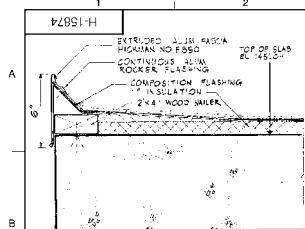




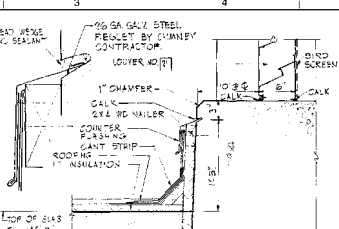




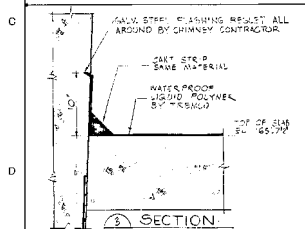




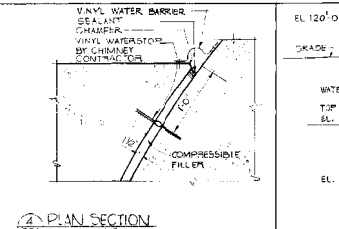
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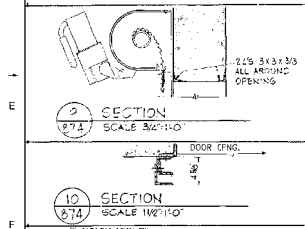
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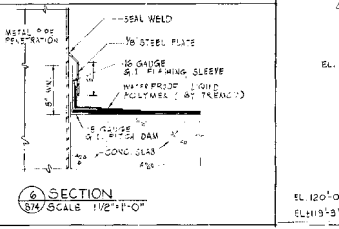
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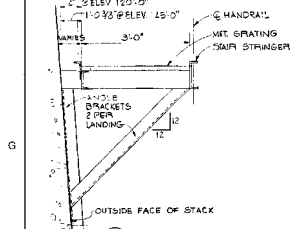
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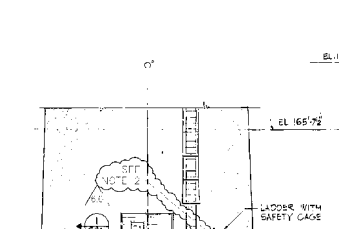
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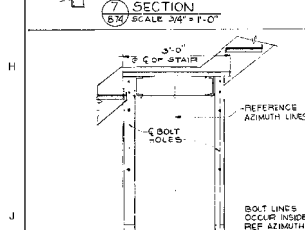
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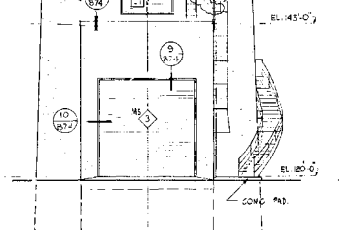
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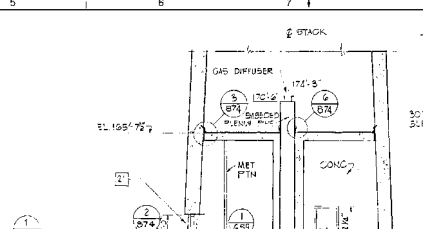
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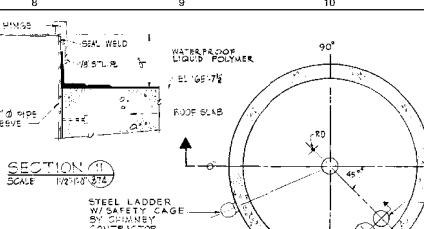
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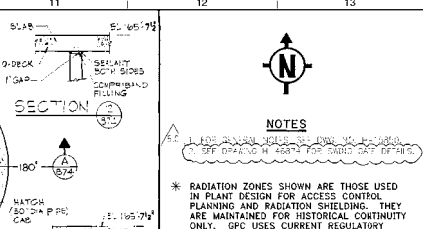
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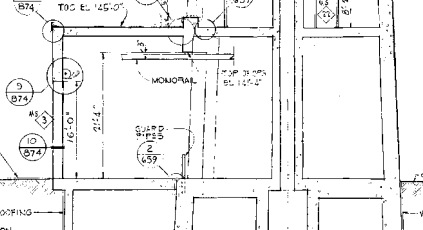
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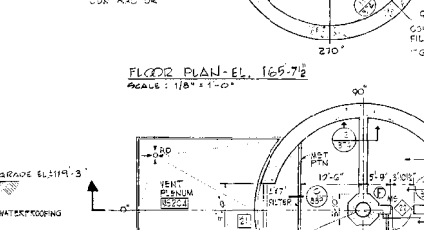
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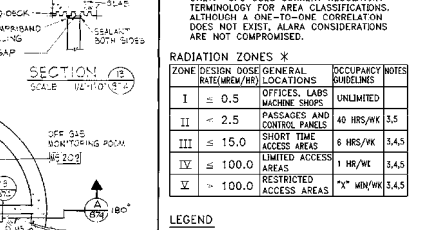
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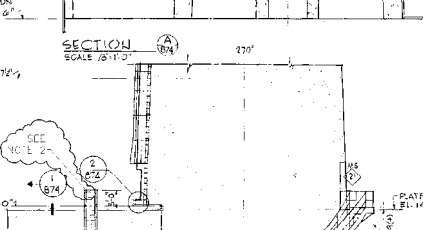
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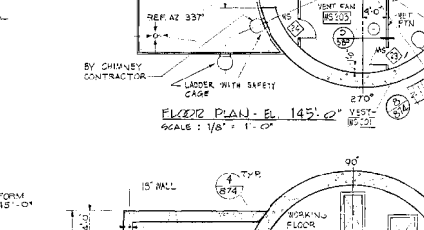
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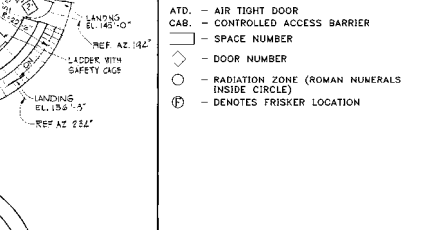
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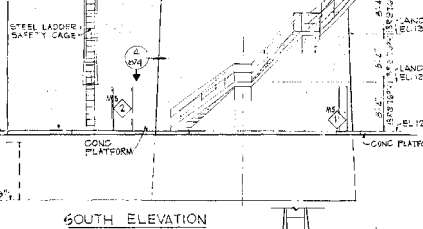
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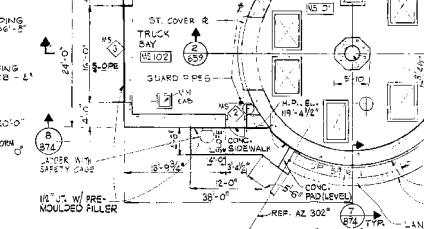
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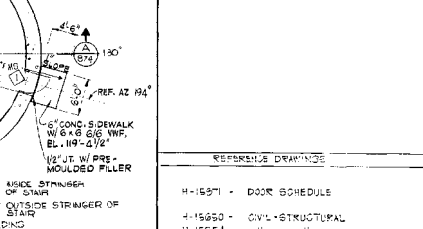
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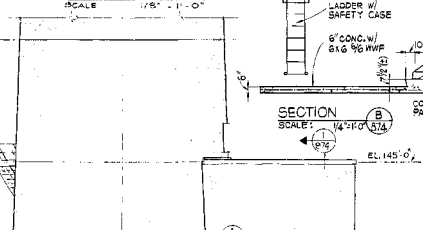
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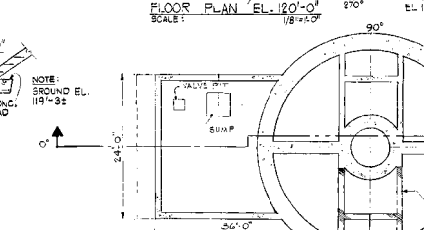
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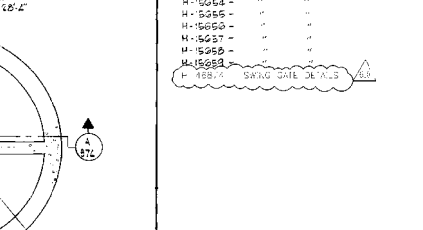
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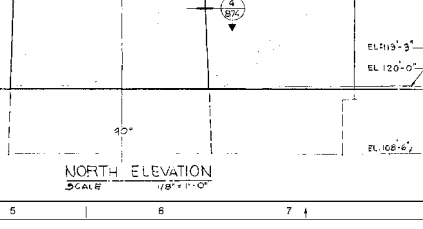
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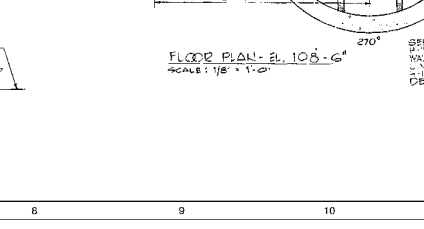
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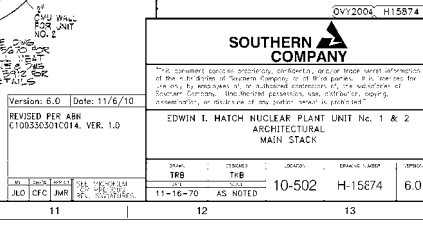
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SECTION 26  
SCALE: 1 1/2\"/>



SECTION 27  
SCALE: 1 1/2\"/>



SECTION 28  
SCALE: 1 1/2\"/>



NOTES

\* RADIATION ZONES SHOWN ARE THOSE USED IN PLANT DESIGN FOR ACCESS CONTROL, PLANNING AND RADIATION SHIELDING. THEY ARE MAINTAINED FOR HISTORICAL CONTINUITY ONLY. GPC USES CURRENT REGULATORY TERMINOLOGY FOR AREA CLASSIFICATIONS. ALTHOUGH A ONE-TO-ONE CORRELATION DOES NOT EXIST, ALARA CONSIDERATIONS ARE NOT COMPROMISED.

ZONE DESIGN	DOSE GENERAL RATE (MR/HR)	LOCATIONS	OCCUPANCY NOTES
I	≤ 0.5	OFFICES, LABS, MACHINE SHOPS	UNLIMITED
II	≤ 2.5	PASSAGES AND CONTROL PANELS	40 HRS/WK
III	≤ 15.0	SHORT TIME ACCESS AREAS	6 HRS/WK
IV	≤ 100.0	LIMITED ACCESS AREAS	1 HR/WK
V	≤ 100.0	RESTRICTED ACCESS AREAS	1 hr/yr

- LEGEND
- ATD. - AIR TIGHT DOOR
  - CAB. - CONTROLLED ACCESS BARRIER
  - SPACE NUMBER
  - ◇ - DOOR NUMBER
  - - RADIATION ZONE (ROMAN NUMERALS INSIDE CIRCLE)
  - Ⓟ - DENOTES FRISKER LOCATION

REFERENCE DRAWINGS

- H-1571 - DOOR SCHEDULE
- H-15550 - CIVIL-STRUCTURAL
- H-15551 - " "
- H-15552 - " "
- H-15553 - " "
- H-15554 - " "
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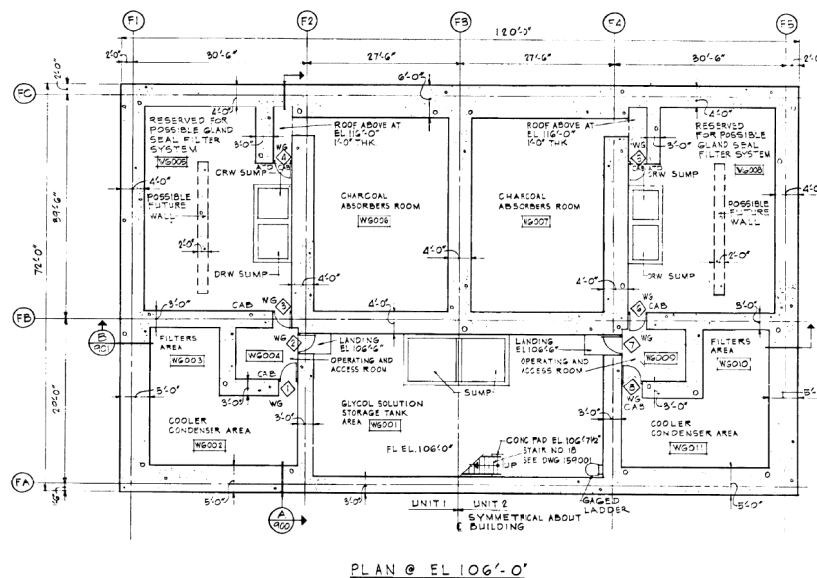
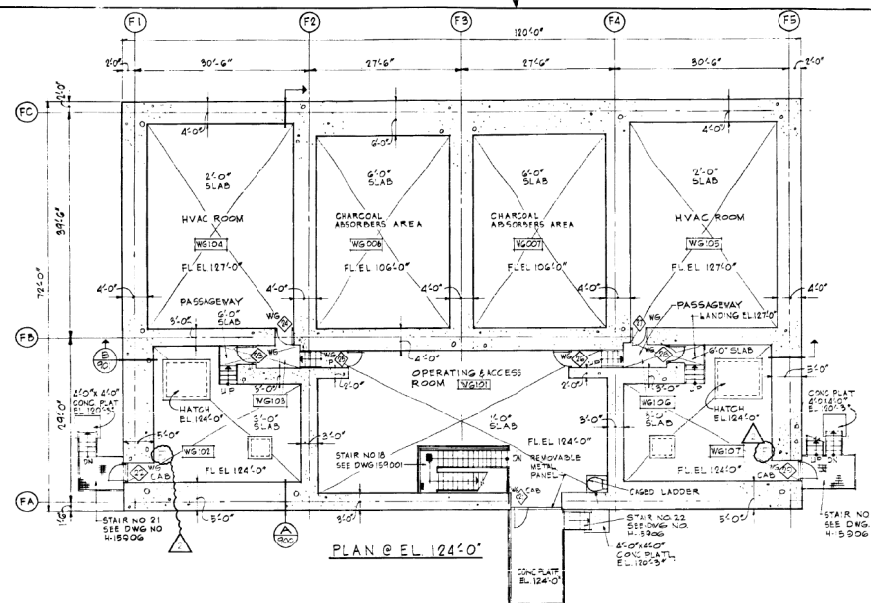
Version: 6.0 Date: 11/6/10  
REVISED PER ASH C10050001014 VER. 1.0

EDWIN I. HATCH NUCLEAR PLANT UNIT No. 1 & 2  
ARCHITECTURAL  
MAIN STACK

11-16-70 AS NOTED

10-502 H-15674

6.0



#### LEGEND

- ATD. - AIR TIGHT DOOR
- CAB. - CONTROLLED ACCESS BARRIER
- - SPACE NUMBER
- ◇ - DOOR NUMBER
- - RADIATION ZONE (ROMAN NUMERALS INSIDE CIRCLE)
- F - DENOTES FRISKER LOCATION

#### NOTES

1. SLAB AND WALL THICKNESSES REFLECT MINIMUM SHIELDING REQUIREMENTS; ANY GREATER THICKNESSES WOULD SERVE TO REDUCE RADIATION ZONES BELOW THOSE SHOWN ON W-5905-N.

- \* RADIATION ZONES SHOWN ARE THOSE USED IN PLANNING FOR ACCESS CONTROL. PLANNING AND RADIATION ZONES ARE MAINTAINED FOR HISTORICAL CONTINUITY ONLY. GPC USES CURRENT REGULATORY TERMINOLOGY FOR AREA CLASSIFICATIONS, ALTHOUGH A ONE-TO-ONE CORRELATION DOES NOT EXIST. ALARA CONSIDERATIONS ARE NOT COMPROMISED.

#### RADIATION ZONES \*

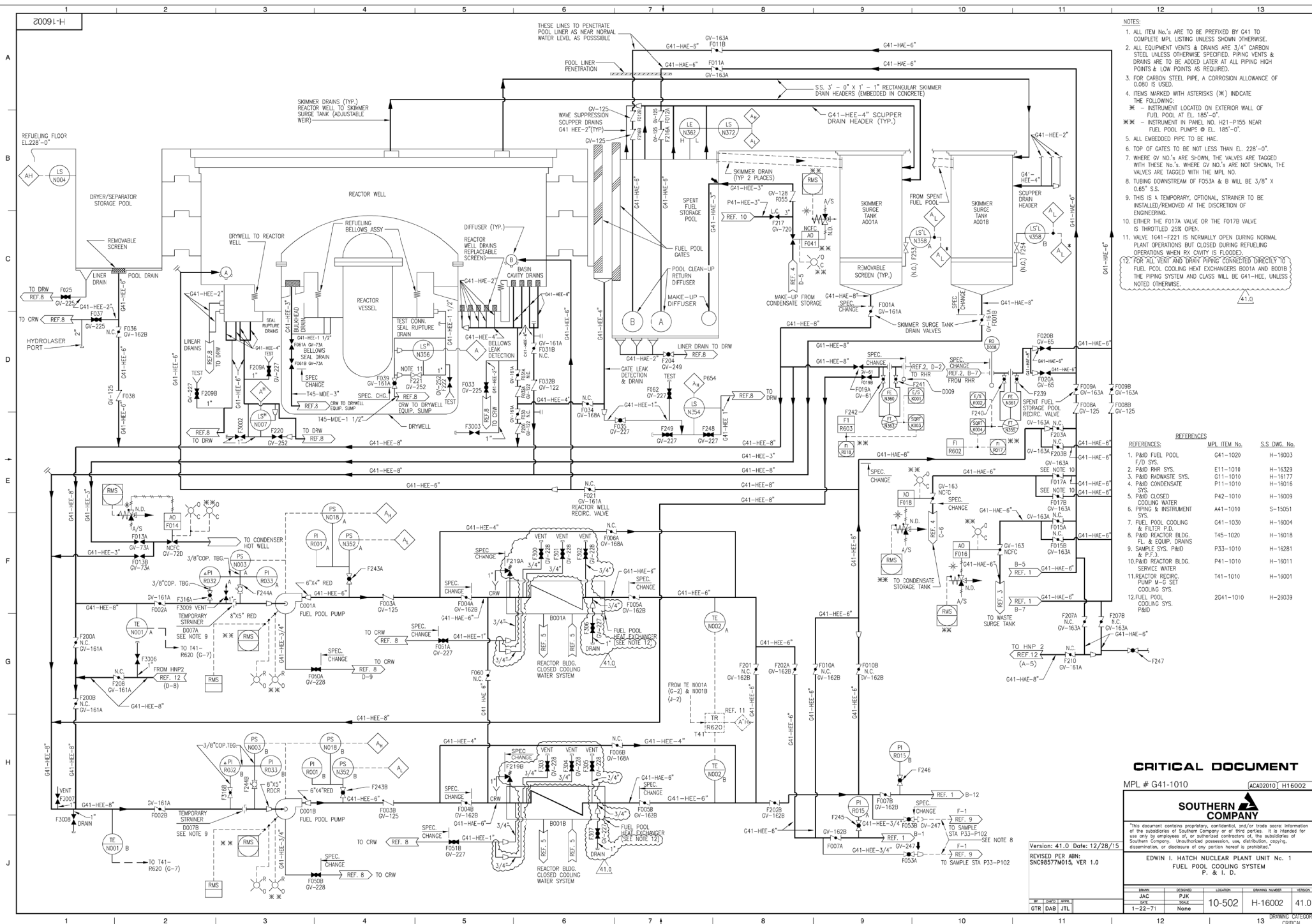
ZONE DESIGN	DOSE GENERAL	OCCUPANCY	NOTES
I	≤ 0.5	DIAGNOSIS, AREA	UNLIMITED
II	≤ 2.5	PASSAGES AND CONTROL ROOMS	40-HRS/WK 35
III	≤ 15.0	SHORT TIME ACCESS AREAS	4-HRS/WK 14.2
IV	≤ 100.0	LIMITED ACCESS AREAS	4-HRS/WK 34.5
V	> 100.0	RESTRICTED ACCESS AREAS	4-HRS/WK 14.2

#### REFERENCE DRAWINGS

- H-15900 - PLANS & SECTION "A"
- H-15901 - STAIRS & SECTION "B"
- H-15905 - ACCESS CONTROL

<b>BECHTEL ASSOCIATES</b> JOB 6511	
<b>SOUTHERN SERVICES INC.</b> FOR	
<b>GEORGIA POWER CO., ATLANTA, GA.</b> GENERAL ENGINEERING DEPARTMENT	
EDWIN I HATCH NUCLEAR PLANT UNIT NO. 1B2 SHIELDING	
WASTE GAS TREATMENT BUILDING	
DATE: 5/9/77 SCALE: 1/8" = 1'-0"	DRAWING NUMBER: 10-502 SHEET NO: H-15903





**NOTE**

1. ALL ITEM NO.'s ARE TO BE PREPARED BY G41 TO COMPLETE MILL LISTING UNLESS SHOWN OTHERWISE.
2. ALL EQUIPMENT VENTS & DRAINS ARE 3/4" CARBON STEEL UNLESS OTHERWISE NOTED. SPRING VENTS & DRAINS ARE TO BE ADDED LATER AT ALL PIPING HIGHER POINTS & LOW POINTS AS REQUIRED.
3. FOR CARBON STEEL PIPE, A CORROSION ALLOWANCE OF 0.050" IS USED.
4. ITEMS MARKED WITH ASTERISKS (\*) INDICATE THE FOLLOWING:
  - \* - INSTRUMENT LOCATED ON EXTERIOR WALL OF FUEL POOL, AT EL. 185'-0".
  - \*M - INSTRUMENT IN PANEL NO. 181-P155 NEAR FUEL POOL PUMPS @ EL. 185'-0".
5. ALL EMBEDDED PIPE TO BE 18".
6. TOP OF GATES TO BE NOT LESS THAN EL. 228'-0".
7. WHERE OF NO.'s ARE SHOWN, THE VALVES ARE TAGGED WITH THESE NO.'s. WHERE NOT SHOWN, THE VALVES ARE TAGGED WITH THE MPL NO.
8. TURNING DOWNSTREAM OF FOSSA & B WILL BE 3/8" X 0.65" S.S.
9. THIS IS A TEMPORARY, OPTIONAL, STRAINER TO BE INSTALLED/REMOVED AT THE DISCRETION OF ENGINEERING.
10. EITHER THE F017A VALVE OR THE F017B VALVE IS THROTTLED 25% OPEN.
11. VALVES 1041-1721 ARE NORMALLY OPEN DURING NORMAL PLANT OPERATIONS BUT CLOSED DURING REFUELING OPERATIONS WHEN RX CAVITY IS FLOODED.
12. FOR ALL VENT AND DRAIN PIPING CONNECTED DIRECTLY TO FUEL POOL, COOLING HEAT EXCHANGERS BO01A, BO01B, AND SPRING SYSTEM AND GLASS WILL BE G41-NR, UNLESS NOTED OTHERWISE.

## REFERENCES

REFERENCES:	MPI ITEM No.	S.S. Dwg. No.
1. PAID FUEL POOL F/D SYS.	A41-1020	H-16003
2. PAID PWR SYS.	E11-1010	H-16329
3. PAID CONDENSATE SYS.	E11-1010	H-16177
4. PAID CONDENSATE SYS.	E11-1010	H-16016
5. PAID CLOSSED COOLING WATER SYS.	P42-1010	H-16009
6. PIPING & INSTRUMENT SYS.	A41-1010	S-15051
7. FUEL POOL FILTER & COOLING P.D.	A41-1030	H-16004
8. PAID FUEL POOL BLDG. FL & EQUIP. DRAINS	T45-1002	H-16018
9. SAMPLE SYS. PAID & P.I.	P33-1010	H-16281
10. PAID REACTOR BLDG. SERVICE WATER	P41-1010	H-16001
11. REACTOR GEORG. PUMP M-G SET COOLING SYS.	T41-1010	H-16011
12. FUEL POOL COOLING SYS. PAID	2041-10/0	H-26039

**CRITICAL DOCUMENT**

MPL # G41-1010

**SOUTHERN COMPANY**

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EDWIN I. HATCH NUCLEAR PLANT UNIT No. 1  
FUEL POOL COOLING SYSTEM  
P. & I. D.

Drawn	Designated	Location	Drawing Number	Version
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JAC	PJK	10-502	H-16002	41.1
DATE	SCALE			

1-22-71	None	10-000	10-000	10-000
12		12	DRAWING CATEGORY	

12	13	CRITICAL
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