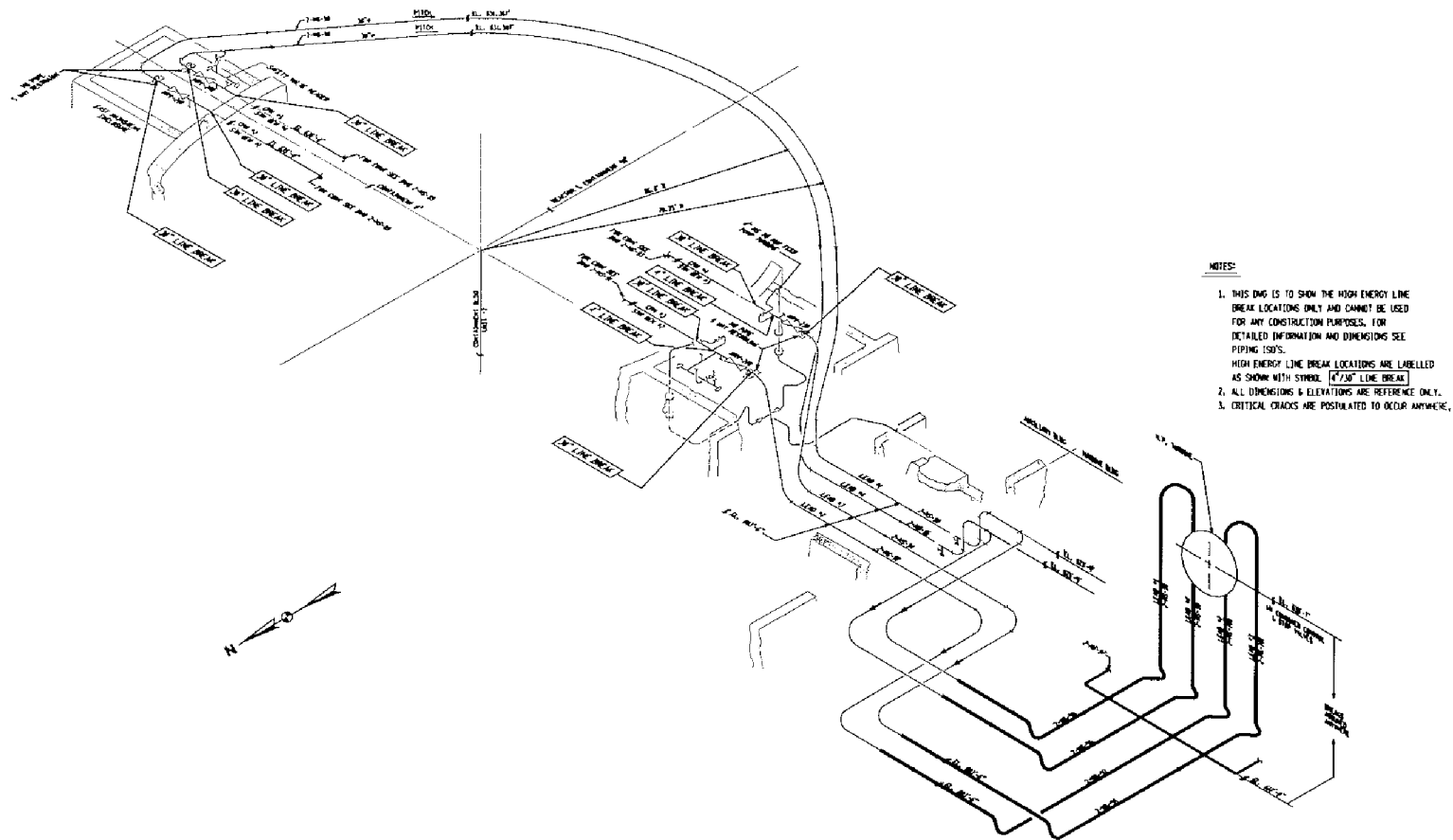
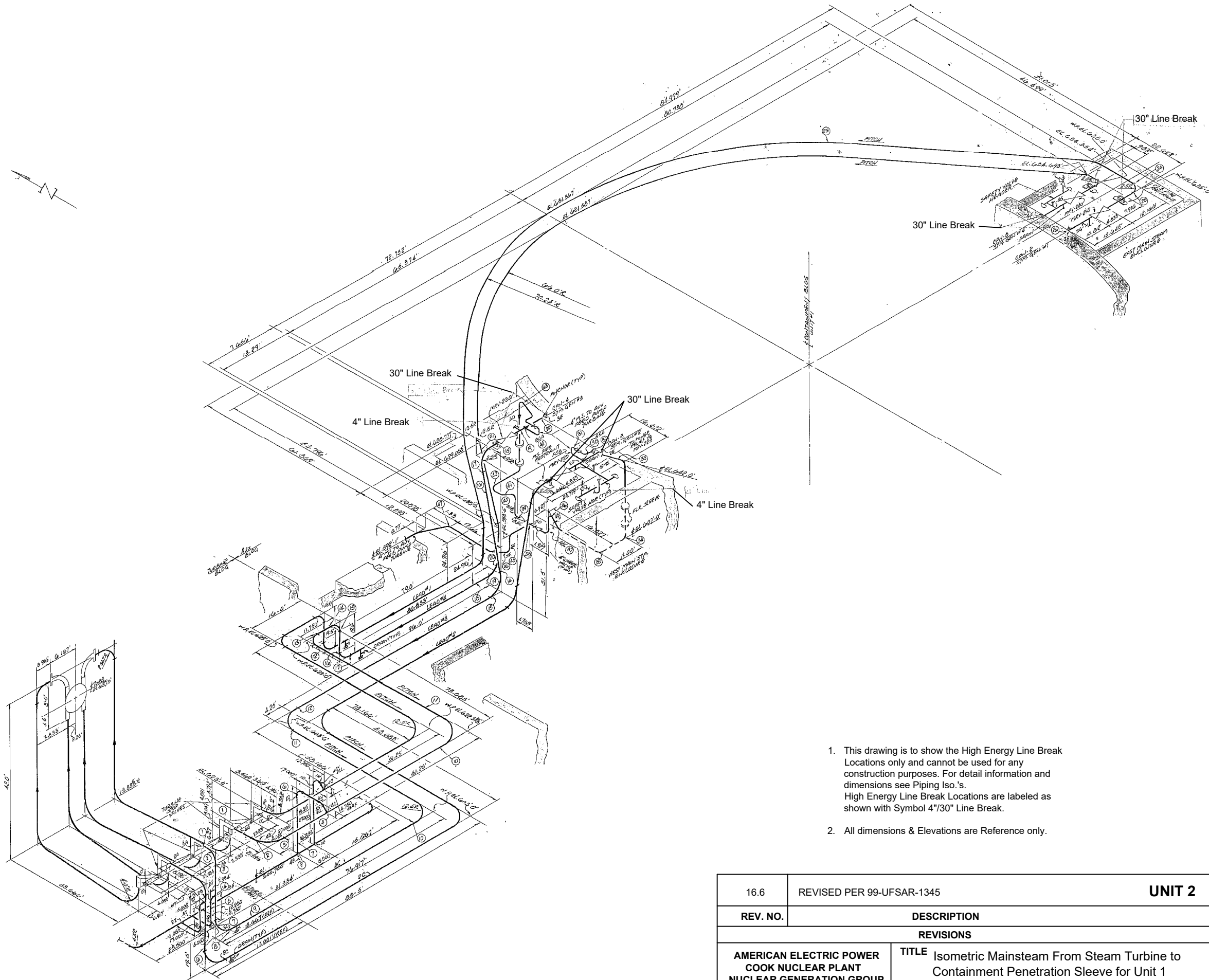


UFSAR Revision 32.0



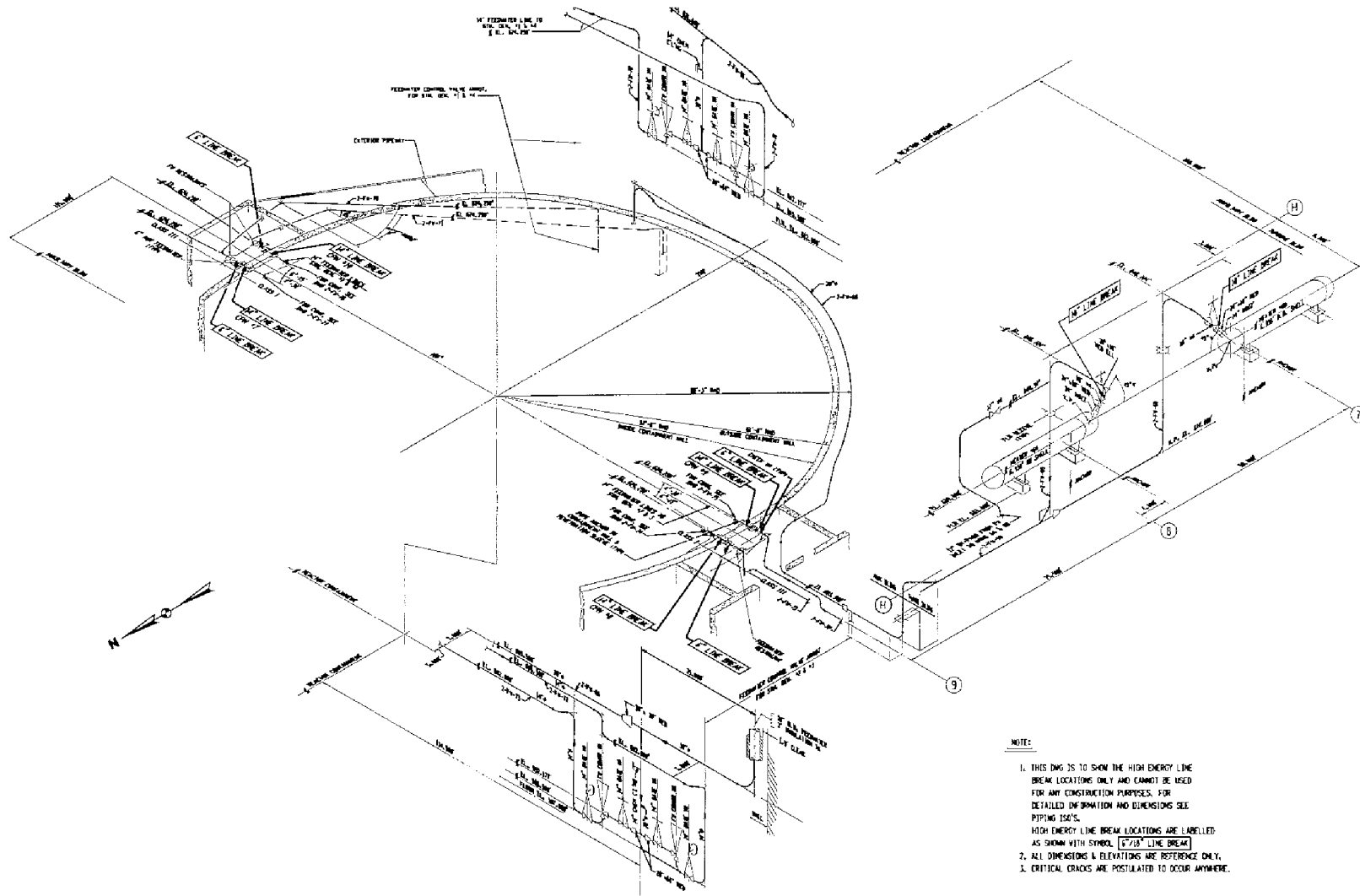
	16.4	REVISED PER 98-UFSAR-0779			UNIT 2	
	REV. NO.	DESCRIPTION				
	REVISIONS					
	AMERICAN ELECTRIC POWER COOK NUCLEAR PLANT NUCLEAR GENERATION GROUP BRIDGMAN, MICHIGAN		TITLE			Isometric Mainsteam from Steam Turbine to Containment Penetration Sleeve Unit No.2
			DWG. NO.		FSAR FIG. 14.4.2-1	



- 1. This drawing is to show the High Energy Line Break Locations only and cannot be used for any construction purposes. For detail information and dimensions see Piping Iso.'s. High Energy Line Break Locations are labeled as shown with Symbol 4"/30" Line Break.
- 2. All dimensions & Elevations are Reference only.

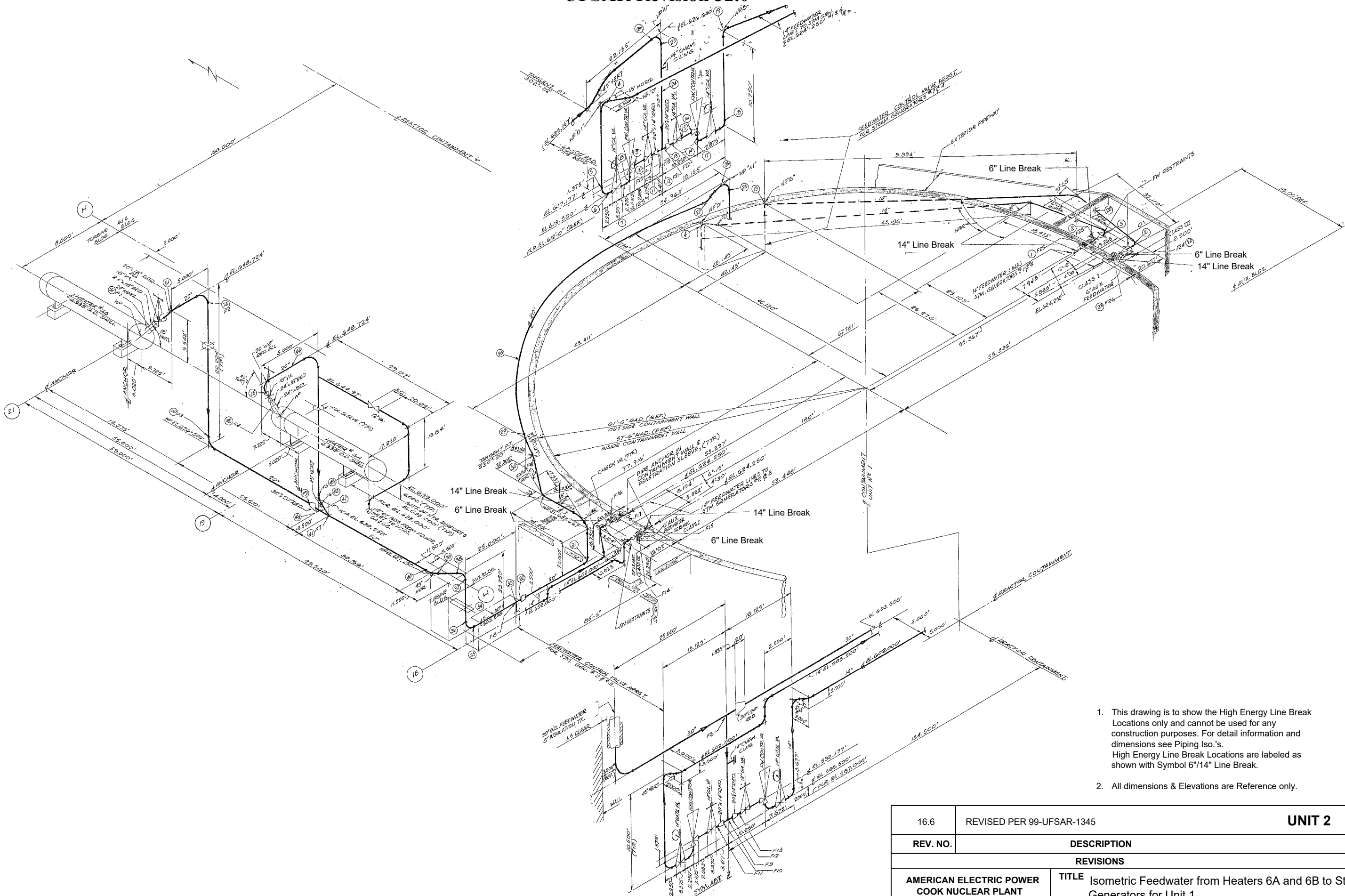
16.6	REVISED PER 99-UFSAR-1345		UNIT 2
REV. NO.	DESCRIPTION		
REVISIONS			
AMERICAN ELECTRIC POWER COOK NUCLEAR PLANT NUCLEAR GENERATION GROUP BRIDGMAN, MICHIGAN	TITLE	Isometric Mainsteam From Steam Turbine to Containment Penetration Sleeve for Unit 1	
	DWG. NO.	FSAR FIG. 14.4.2-1A	SH 1 of 1

UFSAR Revision 32.0



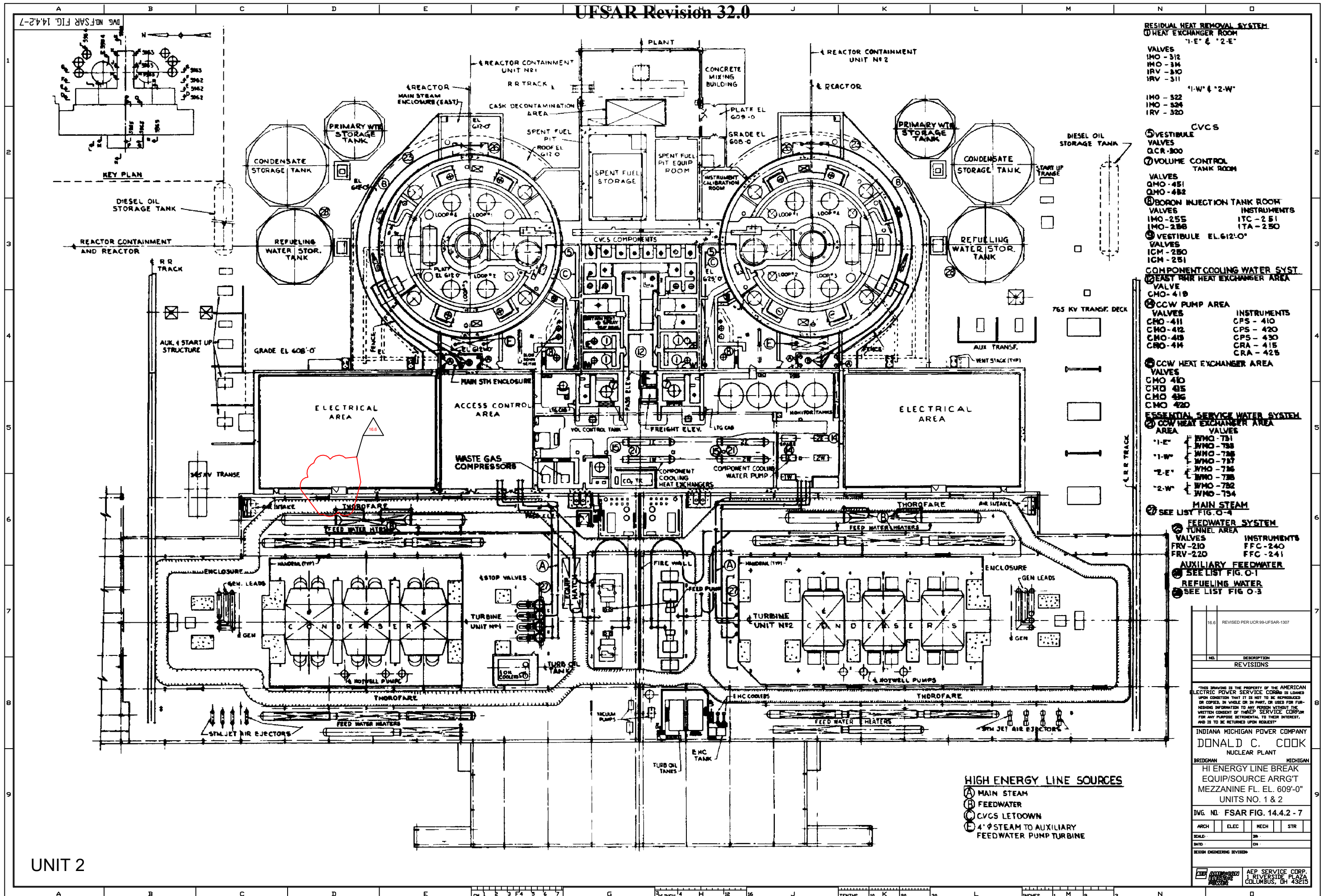
	16.4	REVISED PER 98-UFSAR-0779	UNIT 2
	REV. NO.	DESCRIPTION	
	REVISIONS		
	AMERICAN ELECTRIC POWER COOK NUCLEAR PLANT NUCLEAR GENERATION GROUP BRIDGMAN, MICHIGAN		TITLE Isometric of Feedwater from Heaters # 6A & 6B to Steam Generators Unit No. 2 DWG. NO. FSAR FIG. 14.4.2-2
			SH 1 of 1

UFSAR Revision 32.0



1. This drawing is to show the High Energy Line Break Locations only and cannot be used for any construction purposes. For detail information and dimensions see Piping Iso.'s.
High Energy Line Break Locations are labeled as shown with Symbol 6"/14" Line Break.
2. All dimensions & Elevations are Reference only.

16.6	REVISED PER 99-UFSAR-1345	UNIT 2	
REV. NO.	DESCRIPTION		
REVISIONS			
AMERICAN ELECTRIC POWER COOK NUCLEAR PLANT NUCLEAR GENERATION GROUP BRIDGMAN, MICHIGAN	TITLE Isometric Feedwater from Heaters 6A and 6B to Steam Generators for Unit 1		
	DWG. NO. FSAR FIG. 14.4.2-2A		SH 1 of 1



16.6 REVISED PER UCR 99-UFSAR-1307

NO.	DESCRIPTION
1	REVISIONS

"THIS DRAWING IS THE PROPERTY OF THE AMERICAN ELECTRIC POWER SERVICE CORP. IT IS LOANED TO YOU ON THE CONDITION THAT IT IS NOT TO BE REPRODUCED OR COPIED, IN WHOLE OR IN PART, OR USED FOR FURNISHING INFORMATION TO ANY PERSON WITHOUT THE WRITTEN CONSENT OF THE AMERICAN ELECTRIC POWER SERVICE CORP. FOR ANY PURPOSE, RETENTION, OR FOR ANY OTHER PURPOSE, AND IS TO BE RETURNED UPON REQUEST."

INDIANA MICHIGAN POWER COMPANY
 DONALD C. COOK
 NUCLEAR PLANT

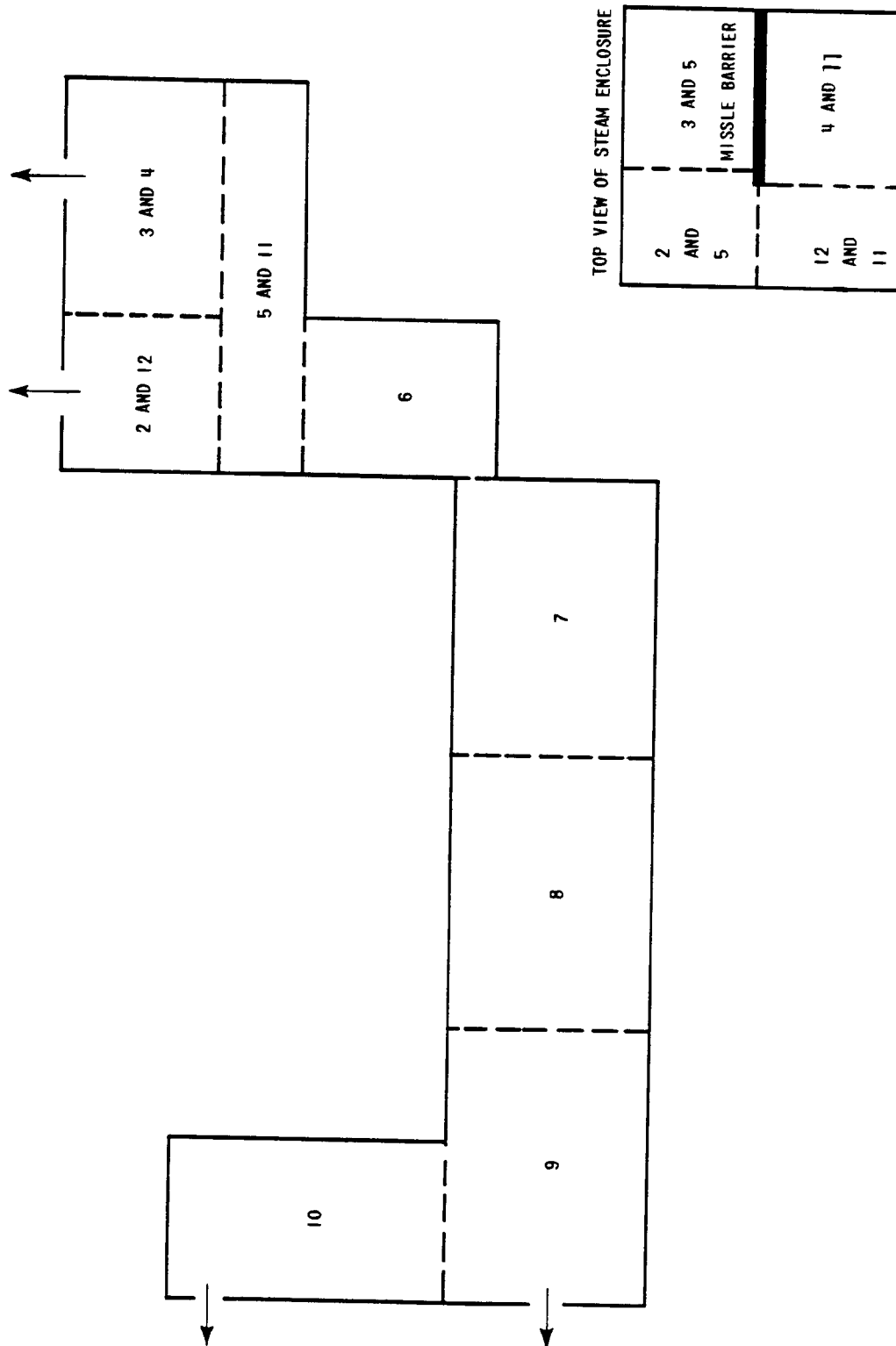
BRIDGMAN MICHIGAN
 HI ENERGY LINE BREAK
 EQUIP/SOURCE ARRGT
 MEZZANINE FL. EL. 609'-0"
 UNITS NO. 1 & 2

DWG. NO. FSAR FIG. 14.4.2 - 7

ARCH	ELEC	MECH	STR
SCALE: 3/8"	3/8"	3/8"	3/8"
DATE: 01/01/00	01/01/00	01/01/00	01/01/00

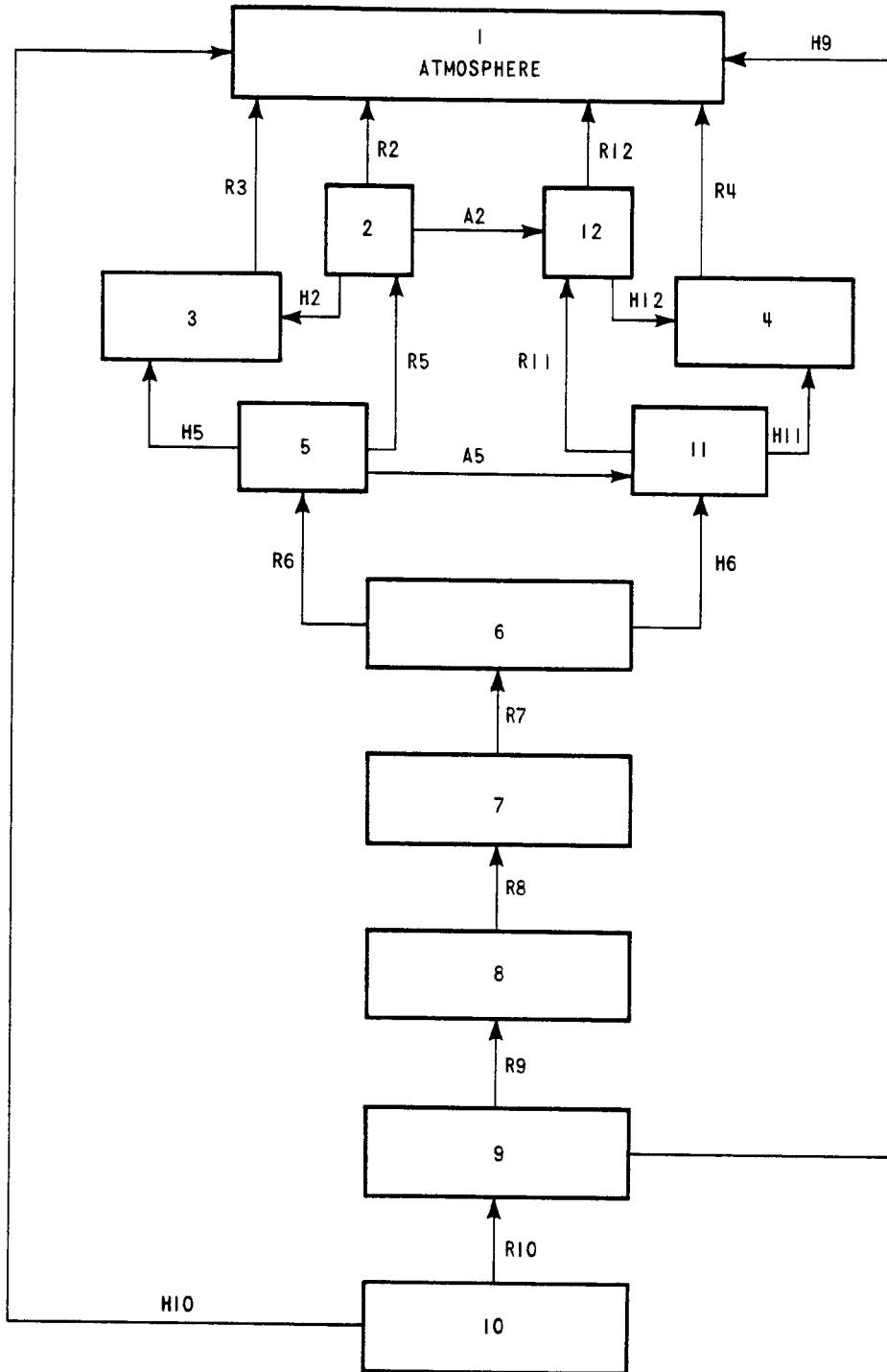
DESIGN ENGINEERING DIVISION
 AEP SERVICE CORP.
 RIVERSIDE PLAZA
 COLUMBUS, OH 43215

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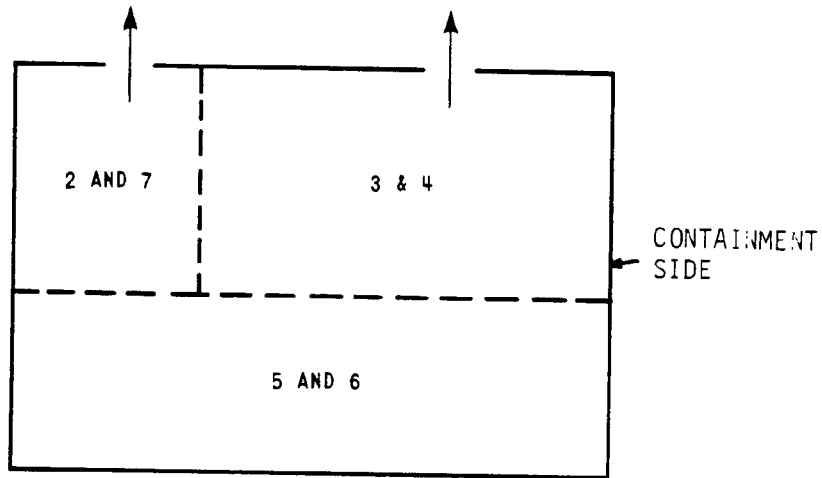
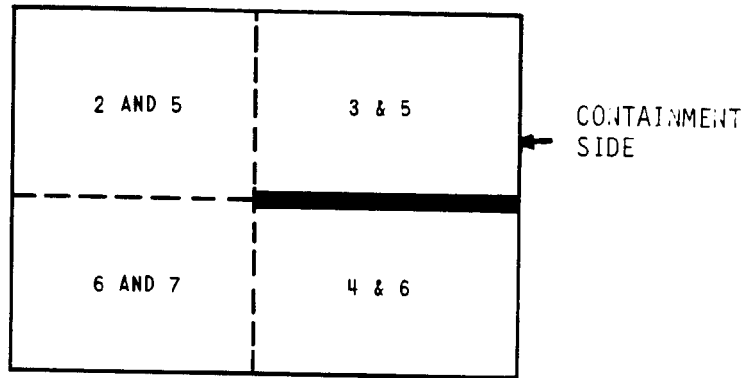
16.6	REVISED PER 99-UFSAR-1345		UNIT 2
REV. NO.	DESCRIPTION		
REVISIONS			
AMERICAN ELECTRIC POWER COOK NUCLEAR PLANT NUCLEAR GENERATION GROUP BRIDGMAN, MICHIGAN	TITLE Schematic of West Steam Enclosure/Main Steam Accessway		
	DWG. NO. FSAR FIG. 14.4.6-1		SH 1 of 1

UFSAR Revision 32.0



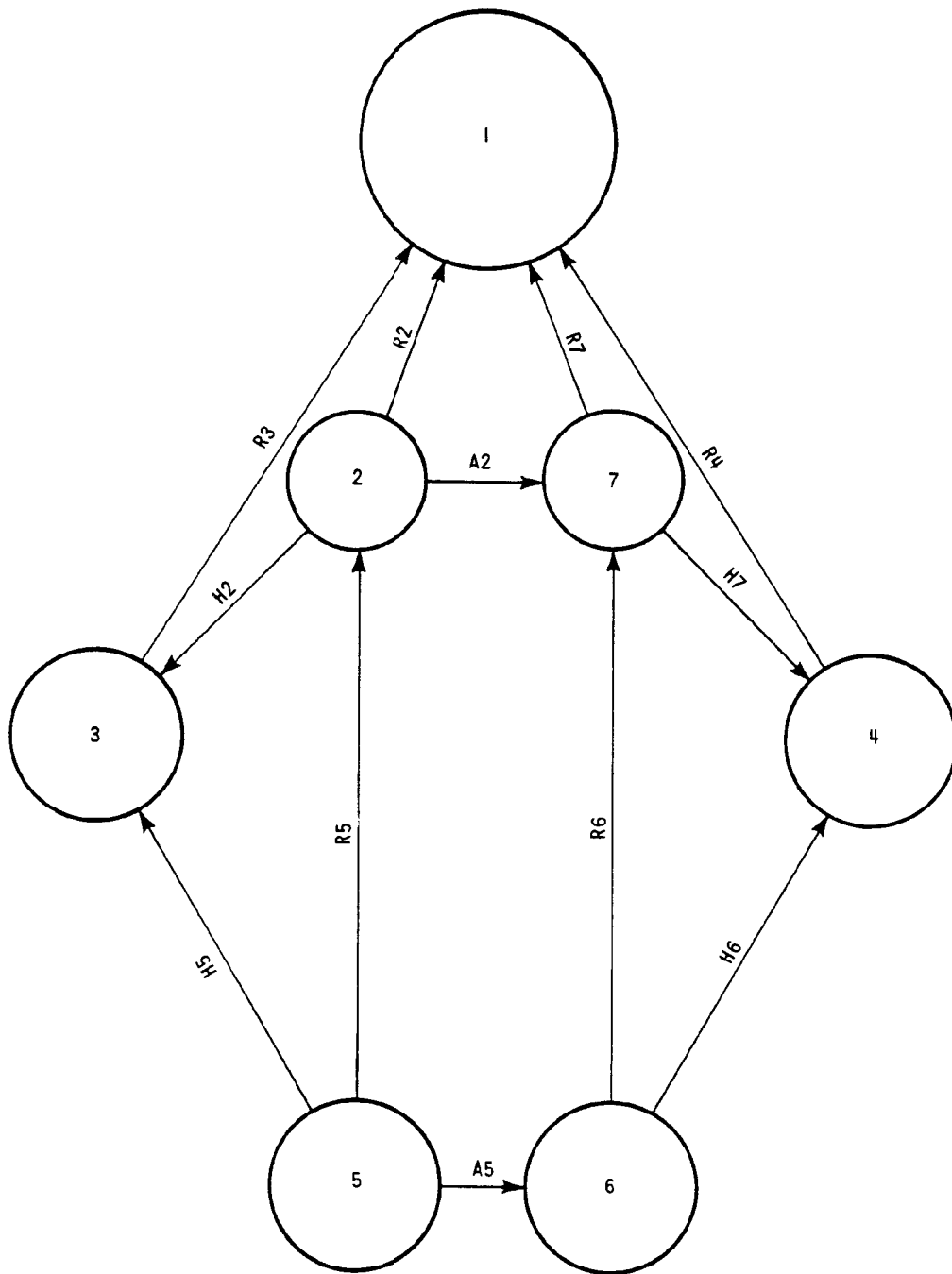
16.6	REVISED PER 99-UFSAR-1345		UNIT 2
REV. NO.	DESCRIPTION		
REVISIONS			
AMERICAN ELECTRIC POWER COOK NUCLEAR PLANT NUCLEAR GENERATION GROUP BRIDGMAN, MICHIGAN	TITLE TMD Network for West Steam Enclosure/Main Steam Accessway		
	DWG. NO. FSAR FIG. 14.4.6-2		SH 1 of 1

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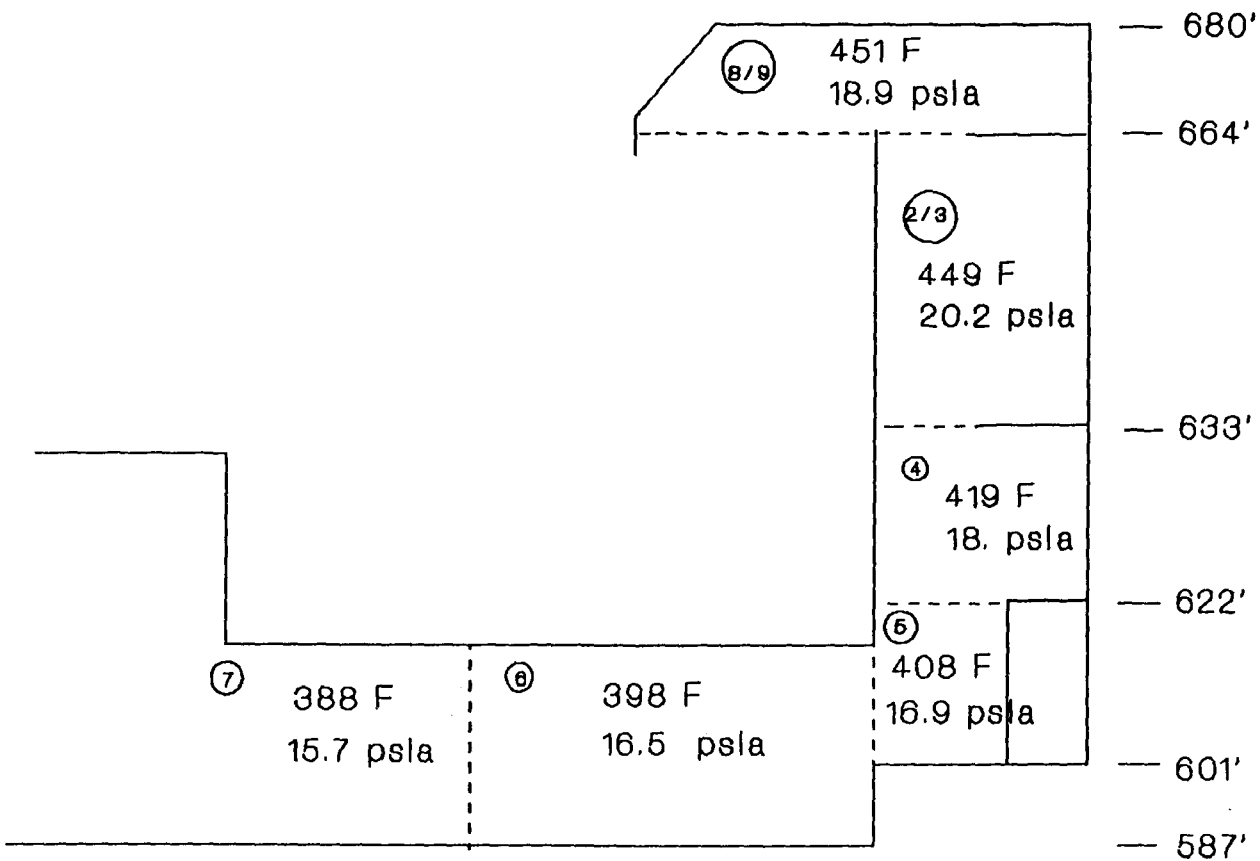
16.6	REVISED PER 99-UFSAR-1345		UNIT 2
REV. NO.	DESCRIPTION		
REVISIONS			
AMERICAN ELECTRIC POWER COOK NUCLEAR PLANT NUCLEAR GENERATION GROUP BRIDGMAN, MICHIGAN	TITLE Schematic of East Steam Enclosure		
	DWG. NO. FSAR FIG. 14.4.6-3		SH 1 of 1

UFSAR Revision 32.0



16.6	REVISED PER 99-UFSAR-1345		UNIT 2
REV. NO.	DESCRIPTION		
REVISIONS			
AMERICAN ELECTRIC POWER COOK NUCLEAR PLANT NUCLEAR GENERATION GROUP BRIDGMAN, MICHIGAN	TITLE TMD Network for East Steam Enclosure		
	DWG. NO. FSAR FIG. 14.4.6-4		SH 1 of 1

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16.6	REVISED PER 99-UFSAR-1345	UNIT 2	
REV. NO.	DESCRIPTION		
REVISIONS			
AMERICAN ELECTRIC POWER COOK NUCLEAR PLANT NUCLEAR GENERATION GROUP BRIDGMAN, MICHIGAN	TITLE		Peak Environmental Parameters (West Main Steam Enclosure and Accessway) (Structural Qualification)
	DWG. NO. FSAR FIG. 14.4.6-5		SH 1 of 1

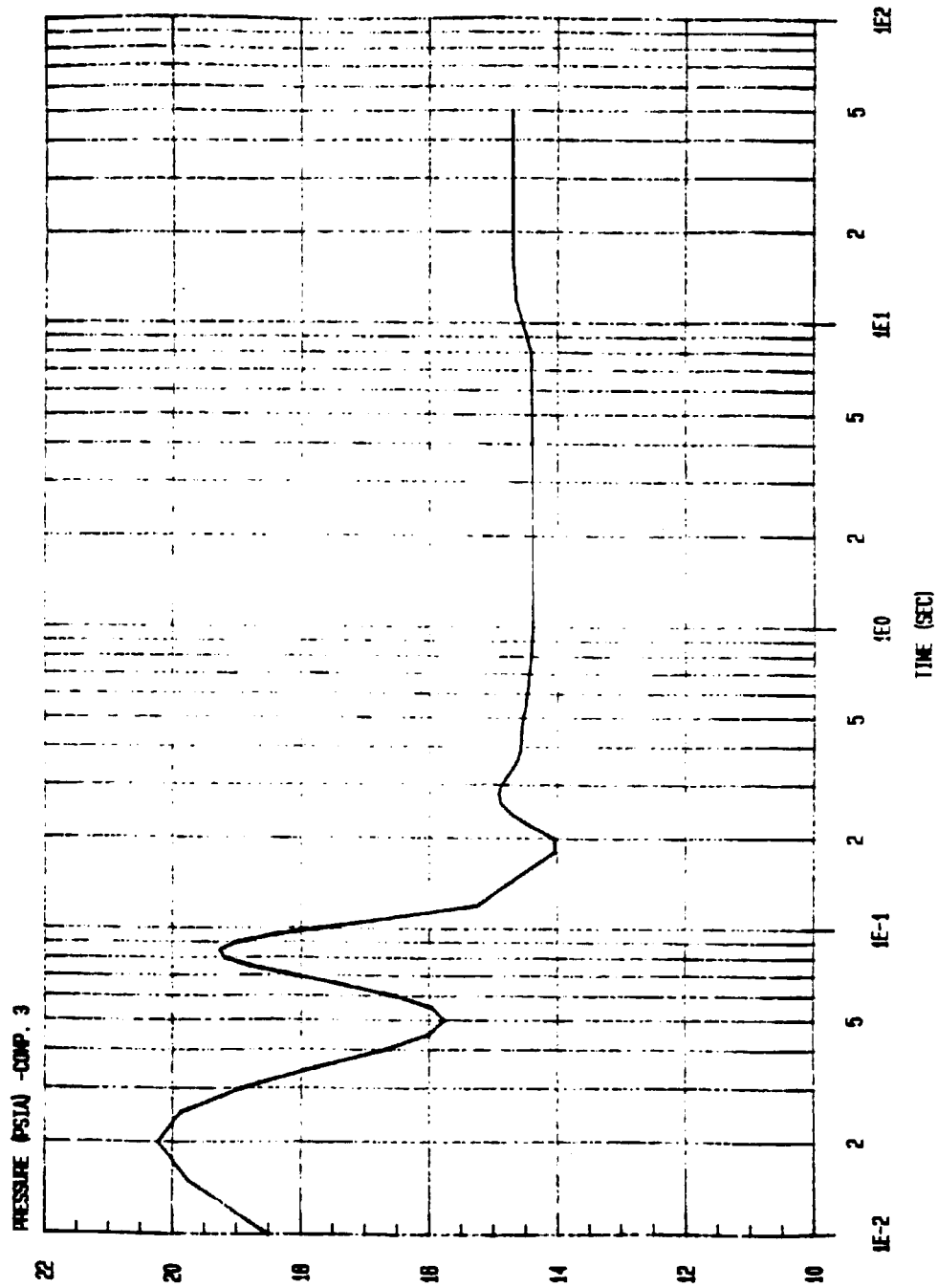
UFSAR Revision 32.0

7/8	488 F 20.4 psia	- 683'
2/3	488 F 20.4 psia	- 664'
4	431 F 19.8 psia	- 633'
5	378 F 16.9 psia	- 662'
6	170 F 15.5 psia	- 596'

16.6	REVISED PER 99-UFSAR-1345		UNIT 2
REV. NO.	DESCRIPTION		
REVISIONS			
AMERICAN ELECTRIC POWER COOK NUCLEAR PLANT NUCLEAR GENERATION GROUP BRIDGMAN, MICHIGAN	TITLE Peak Environmental Parameter (East Main Steam Enclosure) (Structural Qualification)		
	DWG. NO. FSAR FIG. 14.4.6-6		SH 1 of 1

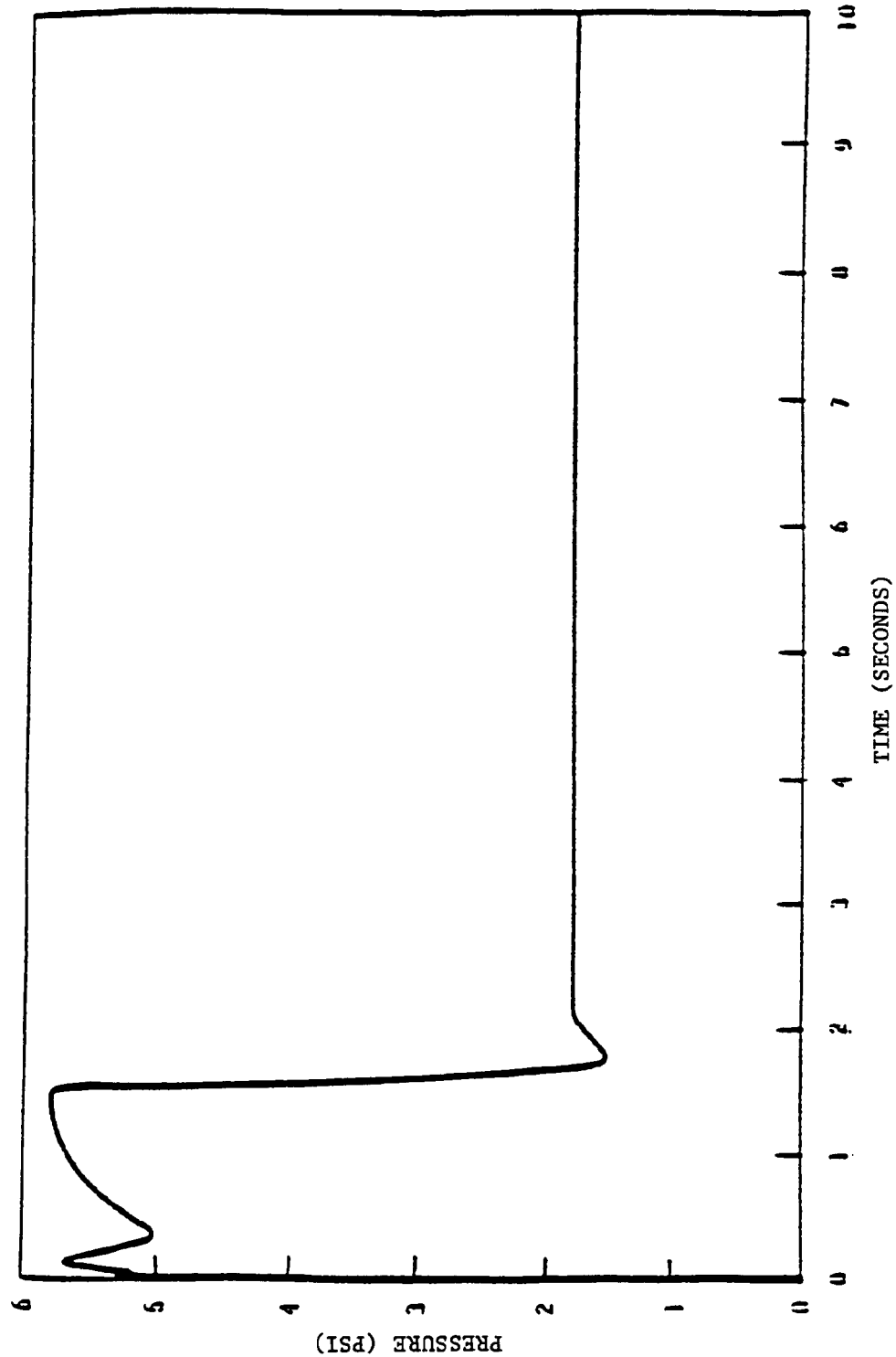
AEPSC/DC COOK UNITS 1&2

MAIN STEAM ENCLOSURE PRESSURE PROFILE



16.6	REVISED PER 99-UFSAR-1345		UNIT 2
REV. NO.	DESCRIPTION		
REVISIONS			
AMERICAN ELECTRIC POWER COOK NUCLEAR PLANT NUCLEAR GENERATION GROUP BRIDGMAN, MICHIGAN	TITLE East Main Steam Enclosure Pressure Profile in Elements 2 and 3		
	DWG. NO. FSAR FIG. 14.4.6-8		SH 1 of 1

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16.6	REVISED PER 99-UFSAR-1345		UNIT 2
REV. NO.	DESCRIPTION		
REVISIONS			
AMERICAN ELECTRIC POWER COOK NUCLEAR PLANT NUCLEAR GENERATION GROUP BRIDGMAN, MICHIGAN	TITLE Feedwater Line Break in Main Steam Accessway (Element 7) Pressure VS. Time		
	DWG. NO. FSAR FIG. 14.4.6-11		SH 1 of 1

The drawings illustrate the structural layout of the Reactor Containment Unit 1. Key components include the Main Steam Enclosure (West), Main Steamline Accessway, and Turbine Bldg. The drawings are oriented with North at the top.

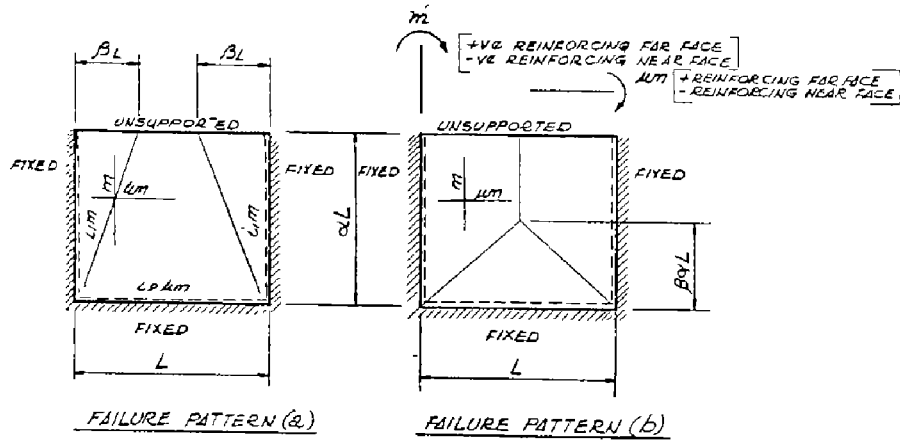
SECTION B-B shows a cross-section of the structure, including the Main Steam Enclosure (East) and Main Steamline Accessway. Key structural elements and elevations are labeled: W-WN1, W-WN2, W-WN3, W-WN4, W-WN5, W-WN6, W-WN7, W-WN8, W-WN9, W-WN10, W-WN11, W-WN12, W-WN13, W-WN14, W-WN15, W-WN16, W-WN17, W-WN18, W-WN19, W-WN20, W-WN21, W-WN22, W-WN23, W-WN24, W-WN25, W-WN26, W-WN27, W-WN28, W-WN29, W-WN30, W-WN31, W-WN32, W-WN33, W-WN34, W-WN35, W-WN36, W-WN37, W-WN38, W-WN39, W-WN40, W-WN41, W-WN42, W-WN43, W-WN44, W-WN45, W-WN46, W-WN47, W-WN48, W-WN49, W-WN50, W-WN51, W-WN52, W-WN53, W-WN54, W-WN55, W-WN56, W-WN57, W-WN58, W-WN59, W-WN60, W-WN61, W-WN62, W-WN63, W-WN64, W-WN65, W-WN66, W-WN67, W-WN68, W-WN69, W-WN70, W-WN71, W-WN72, W-WN73, W-WN74, W-WN75, W-WN76, W-WN77, W-WN78, W-WN79, W-WN80, W-WN81, W-WN82, W-WN83, W-WN84, W-WN85, W-WN86, W-WN87, W-WN88, W-WN89, W-WN90, W-WN91, W-WN92, W-WN93, W-WN94, W-WN95, W-WN96, W-WN97, W-WN98, W-WN99, W-WN100, W-WN101, W-WN102, W-WN103, W-WN104, W-WN105, W-WN106, W-WN107, W-WN108, W-WN109, W-WN110, W-WN111, W-WN112, W-WN113, W-WN114, W-WN115, W-WN116, W-WN117, W-WN118, W-WN119, W-WN120, W-WN121, W-WN122, W-WN123, W-WN124, W-WN125, W-WN126, W-WN127, W-WN128, W-WN129, W-WN130, W-WN131, W-WN132, W-WN133, W-WN134, W-WN135, W-WN136, W-WN137, W-WN138, W-WN139, W-WN140, W-WN141, W-WN142, W-WN143, W-WN144, W-WN145, W-WN146, W-WN147, W-WN148, W-WN149, W-WN150, W-WN151, W-WN152, W-WN153, W-WN154, W-WN155, W-WN156, W-WN157, W-WN158, W-WN159, W-WN160, W-WN161, W-WN162, W-WN163, W-WN164, W-WN165, W-WN166, W-WN167, W-WN168, W-WN169, W-WN170, W-WN171, W-WN172, W-WN173, W-WN174, W-WN175, W-WN176, W-WN177, W-WN178, W-WN179, W-WN180, W-WN181, W-WN182, W-WN183, W-WN184, W-WN185, W-WN186, W-WN187, W-WN188, W-WN189, W-WN190, W-WN191, W-WN192, W-WN193, W-WN194, W-WN195, W-WN196, W-WN197, W-WN198, W-WN199, W-WN200, W-WN201, W-WN202, W-WN203, W-WN204, W-WN205, W-WN206, W-WN207, W-WN208, W-WN209, W-WN210, W-WN211, W-WN212, W-WN213, W-WN214, W-WN215, W-WN216, W-WN217, W-WN218, W-WN219, W-WN220, W-WN221, W-WN222, W-WN223, W-WN224, W-WN225, W-WN226, W-WN227, W-WN228, 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16.6	Revised per 99-UFSAR-1345		UNIT 2
REV. NO.	DESCRIPTION		
REVISIONS			
AMERICAN ELECTRIC POWER COOK NUCLEAR PLANT NUCLEAR GENERATION GROUP BRIDGMAN, MICHIGAN	TITLE	LAYOUT AND IDENTIFICATION OF WALLS AND SLABS FOR EAST MAIN STEAM ENCLOSURE, WEST MAIN STEAM ENCLOSURE, MAIN STEAM ACCESSWAY	
	DWG. NO.	FSAR FIG. 14.4.8-1	SH 1 of 1

[illegible]

16.6	REVISED PER 99-UFSAR-1345		UNIT 2
REV. NO.	DESCRIPTION		
AMERICAN ELECTRIC POWER COOK NUCLEAR PLANT NUCLEAR GENERATION GROUP BRIDGMAN, MICHIGAN	REVISIONS TITLE Isometric View of Main Steam Enclosure Accessway West of Containment		
	DWG. NO.	FSAR FIG. 14.4.8-2	SH 1 of 1

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FOR PATTERN (a):

$$\beta = \frac{\alpha^2 (1 + i_1)}{\mu (3 + i_2)} \left[\sqrt{4 + 3 \frac{\mu (3 + i_2)}{\alpha^2 (1 + i_1)}} - 2 \right] < 0.5 \text{ FOR PATTERN (a) TO BE VALID.}$$

$$p_{max} = m \frac{6\mu (4\beta + i_2)}{\alpha^2 L^2 (3 - 4\beta)}$$

FOR PATTERN (b):

$$\beta = \frac{1}{4} \frac{\mu (1 + i_2)}{\alpha^2 (1 + i_1)} \left[\sqrt{1 + 12 \frac{\alpha^2 (1 + i_1)}{\mu (1 + i_2)}} - 1 \right] < 1.0 \text{ FOR PATTERN (b) TO BE VALID.}$$

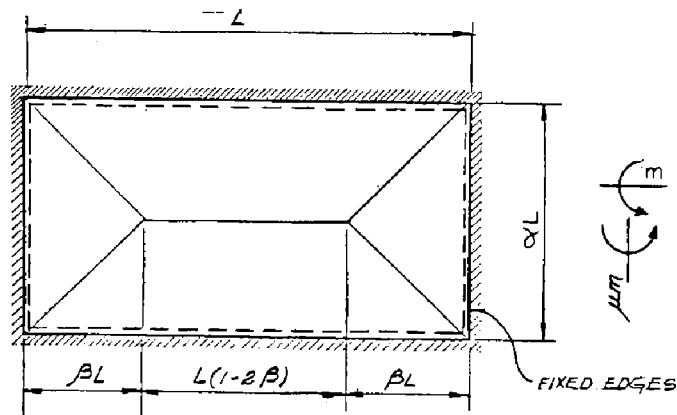
$$p_{max} = m \frac{24 (1 + i_1)}{L^2 (3 - 2\beta)}$$

EVALUATE BOTH CASES AND USE MINIMUM VALUE FOR p_{max} .

———— POSITIVE YIELD LINE
 - - - - - NEGATIVE YIELD LINE

16.6	REVISED PER 99-UFSAR-1345		UNIT 2
REV. NO.	DESCRIPTION		
REVISIONS			
AMERICAN ELECTRIC POWER COOK NUCLEAR PLANT NUCLEAR GENERATION GROUP BRIDGMAN, MICHIGAN	TITLE Yield Line Pattern for Panels with Three Edges Fixed & One Edge Unsupported Subjected to Uniformly Distributed Load		
	DWG. NO. FSAR FIG. 14.4.8-3		SH 1 of 1

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— POSITIVE YIELD LINE

--- NEGATIVE YIELD LINE

m = YIELD MOMENT (+) & (-) (SHORT DIRECTION)

μm = YIELD MOMENT (+) & (-) (LONG DIRECTION)

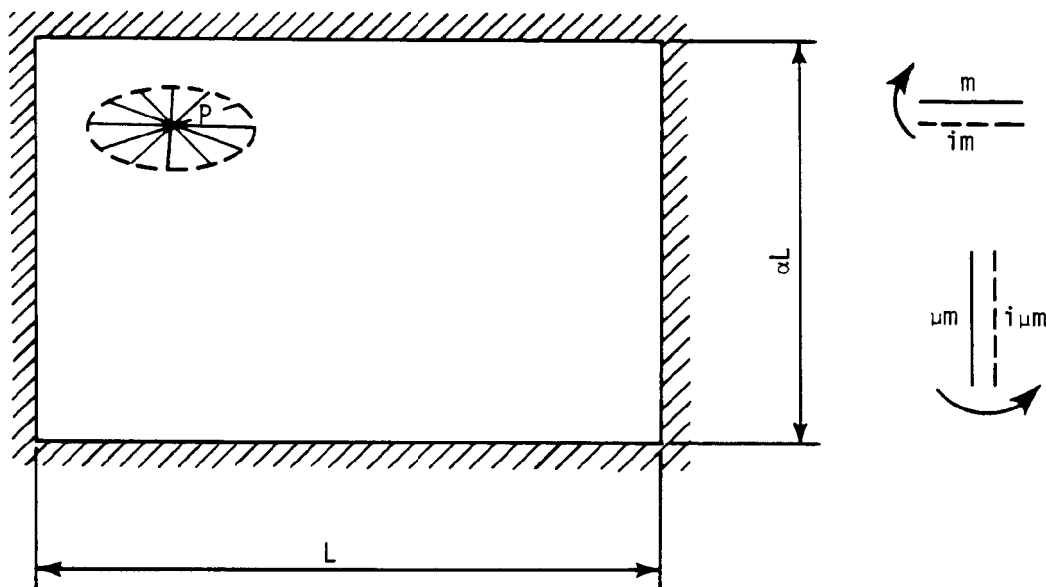
$$\beta = \frac{\mu \alpha^2}{2} \left\{ \sqrt{1 + \frac{3}{\mu \alpha^2}} - 1 \right\}$$

IF $\beta > 0.5$ INTERCHANGE 'L' & 'αL'

$$p_{max} = \frac{24m \left[\frac{2}{\alpha} + \frac{\alpha}{\beta} \right]}{\alpha L^2 (3 - 2\beta)}$$

16.6	REVISED PER 99-UFSAR-1345		UNIT 2
REV. NO.	DESCRIPTION		
REVISIONS			
AMERICAN ELECTRIC POWER COOK NUCLEAR PLANT NUCLEAR GENERATION GROUP BRIDGMAN, MICHIGAN	TITLE Yield Line Pattern for Panels with Four Edges Fixed Subjected to Uniformly Distributed Load		
	DWG. NO. FSAR FIG. 14.4.8-4		SH 1 of 1

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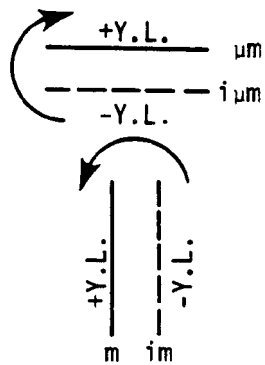
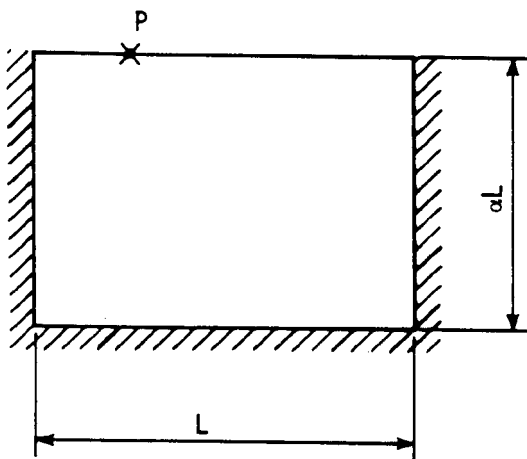
——— POSITIVE YIELD LINE
 - - - - - NEGATIVE YIELD LINE

m = +YIELD MOMENT
 im = -YIELD MOMENT
 μm = +YIELD MOMENT
 $i\mu m$ = -YIELD MOMENT

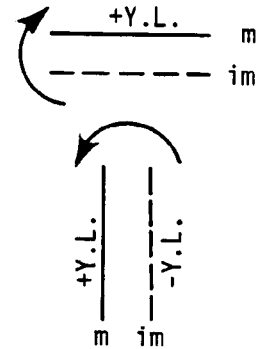
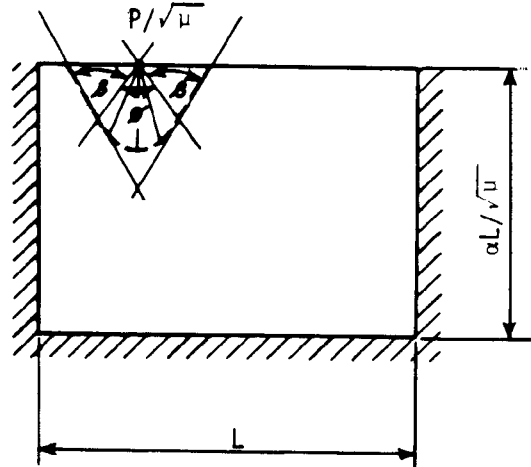
$$P_{max} = 2\pi\sqrt{\mu} (1+i) m$$

16.6	REVISED PER 99-UFSAR-1345		UNIT 2
REV. NO.	DESCRIPTION		
REVISIONS			
AMERICAN ELECTRIC POWER COOK NUCLEAR PLANT NUCLEAR GENERATION GROUP BRIDGMAN, MICHIGAN	TITLE Yield Line Pattern for Panels with Four Edges Fixed Subjected to Concentrated Point Load		
	DWG. NO. FSAR FIG. 14.4.8-5		SH 1 of 1

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ACTUAL SLAB



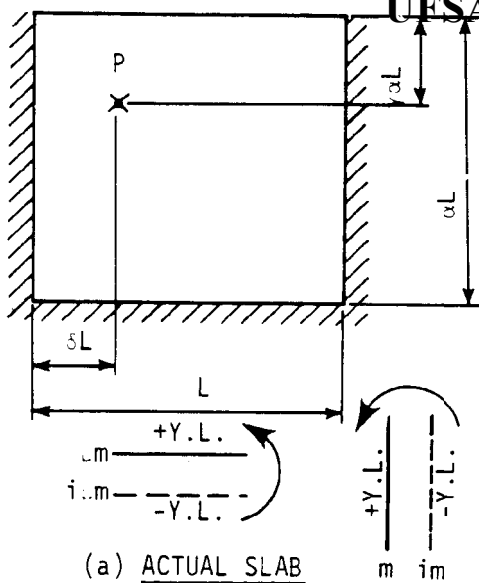
AFFINE SLAB

Y.L. = YIELD LINE

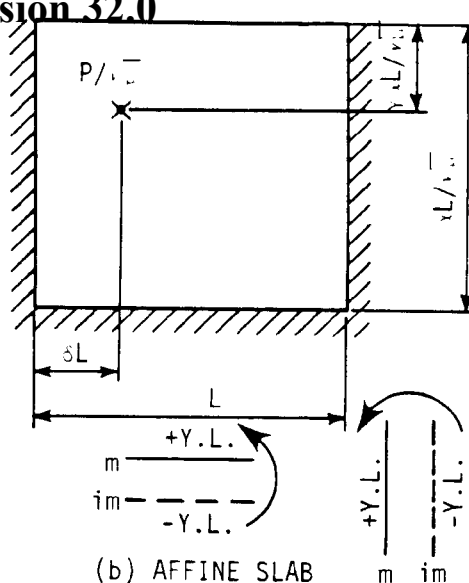
FOR $(P/m) \text{ min.}, \beta = 90^\circ, \tan \left(\frac{\theta}{2} \right) = \sqrt{1}$

$$P_{\max} = \sqrt{\mu} m \{ (1+i)\phi + 2\sqrt{1} \}$$

16.6	REVISED PER 99-UFSAR-1345		UNIT 2
REV. NO.	DESCRIPTION		
REVISIONS			
AMERICAN ELECTRIC POWER COOK NUCLEAR PLANT NUCLEAR GENERATION GROUP BRIDGMAN, MICHIGAN	TITLE Yield Line Pattern for Panels with Three Edges Fixed and Fourth Edge Free Subjected to a Concentrated Point Load at the Free Edge		
	DWG. NO. FSAR FIG. 14.4.8-6		SH 1 of 1

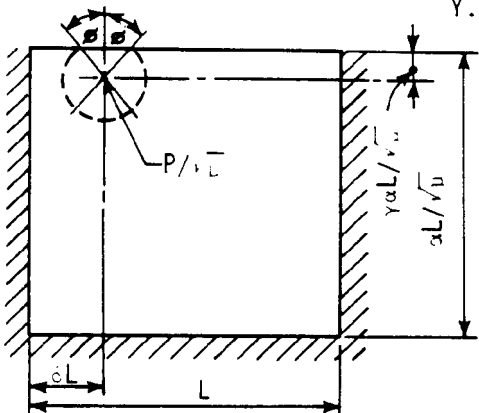


(a) ACTUAL SLAB



(b) AFFINE SLAB

Y.L. = YIELD LINE

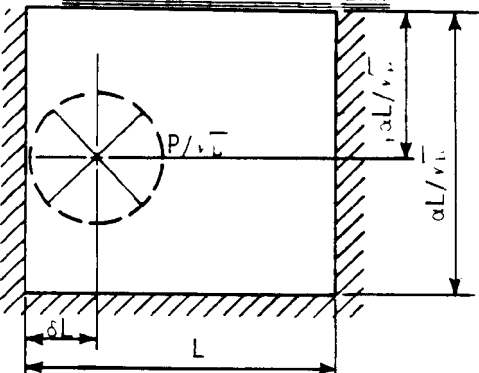


MIN = MINIMUM OF THE QUANTITIES

$L, (1-\gamma)L, (1-\gamma)\alpha L/\sqrt{i}$

$$R = \frac{\gamma\alpha L}{\sqrt{i}\cos\psi}$$

(c) POSSIBLE YIELD PATTERN



(d) POSSIBLE YIELD PATTERN

POSSIBLE YIELD PATTERNS

FIND $R = \frac{\gamma\alpha L}{\sqrt{i}\cos\psi}$ WHERE $\psi = \tan^{-1}\sqrt{i}$

(i) $R < \text{MIN}$ USE $\psi = \tan^{-1}\sqrt{i}$

$$P = 2\sqrt{i} m \tan\psi + (1+i)(\pi-\psi)$$

FIG. (c) REPRESENTS THIS CASE

(ii) $R > \text{MIN}$, MIN $\frac{\gamma\alpha L}{\sqrt{i}}$

$$\text{SET } R' = \text{MIN} \quad \cos\psi' = \frac{\gamma\alpha L}{\sqrt{i} R'}$$

$$P = 2\sqrt{i} m \tan\psi' + (1+i)(\pi-\psi')$$

FIG. (c) REPRESENTS THIS CASE

(iii) $R > \text{MIN}$, MIN $\leq \frac{\gamma\alpha L}{\sqrt{i}}$

$$\phi = 0$$

$$P = 2\pi(1+i)m\sqrt{i}$$

FIG. (d) REPRESENTS THIS CASE

WHEN MIN = δL

16.6

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UNIT 2

REV. NO.

DESCRIPTION

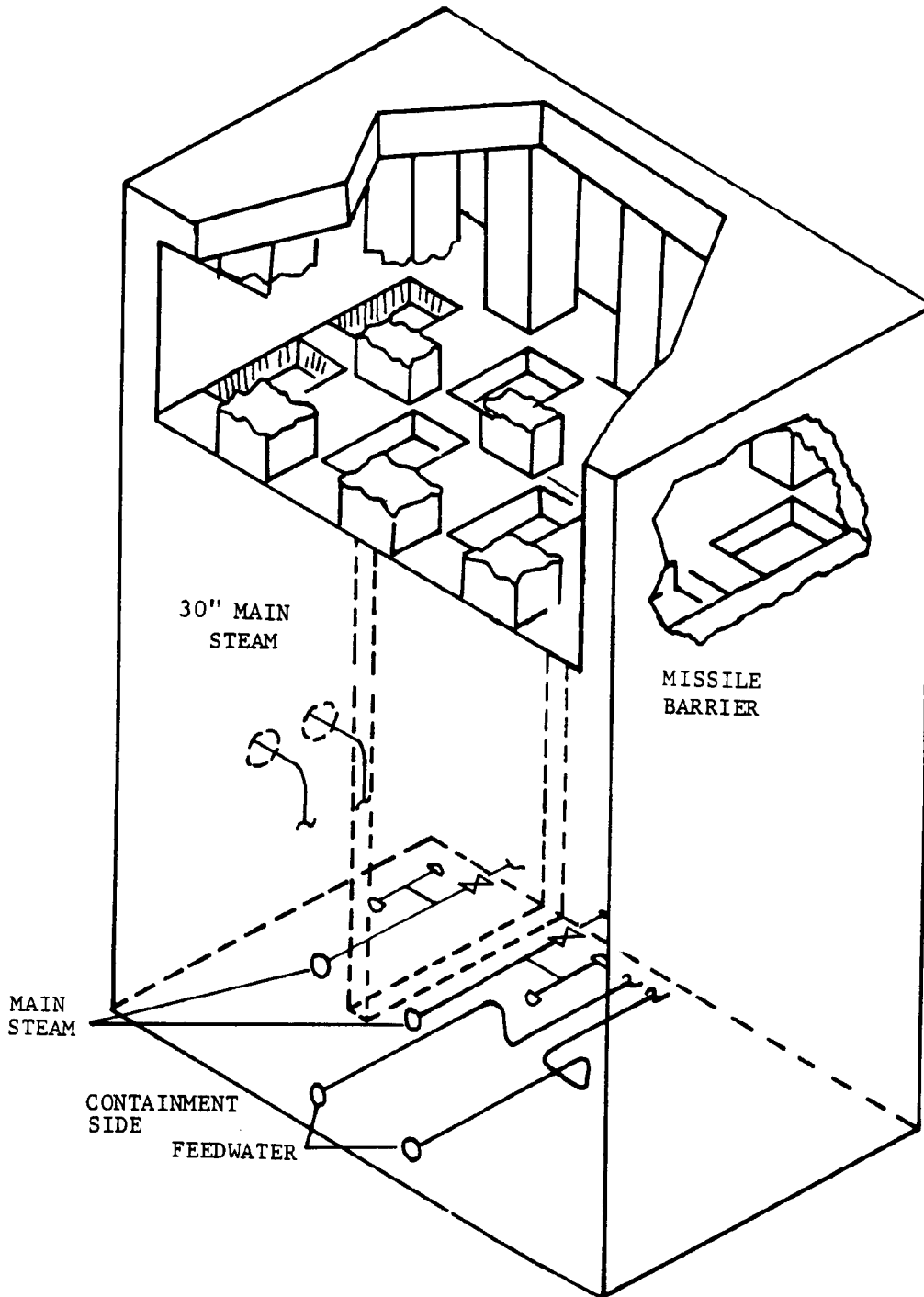
REVISIONS

AMERICAN ELECTRIC POWER
COOK NUCLEAR PLANT
NUCLEAR GENERATION GROUP
BRIDGMAN, MICHIGAN

TITLE Yield Line Patterns for Panels with Three Edges Fixed and Fourth Edge Free Subjected to a Concentrated Point Load at Interior

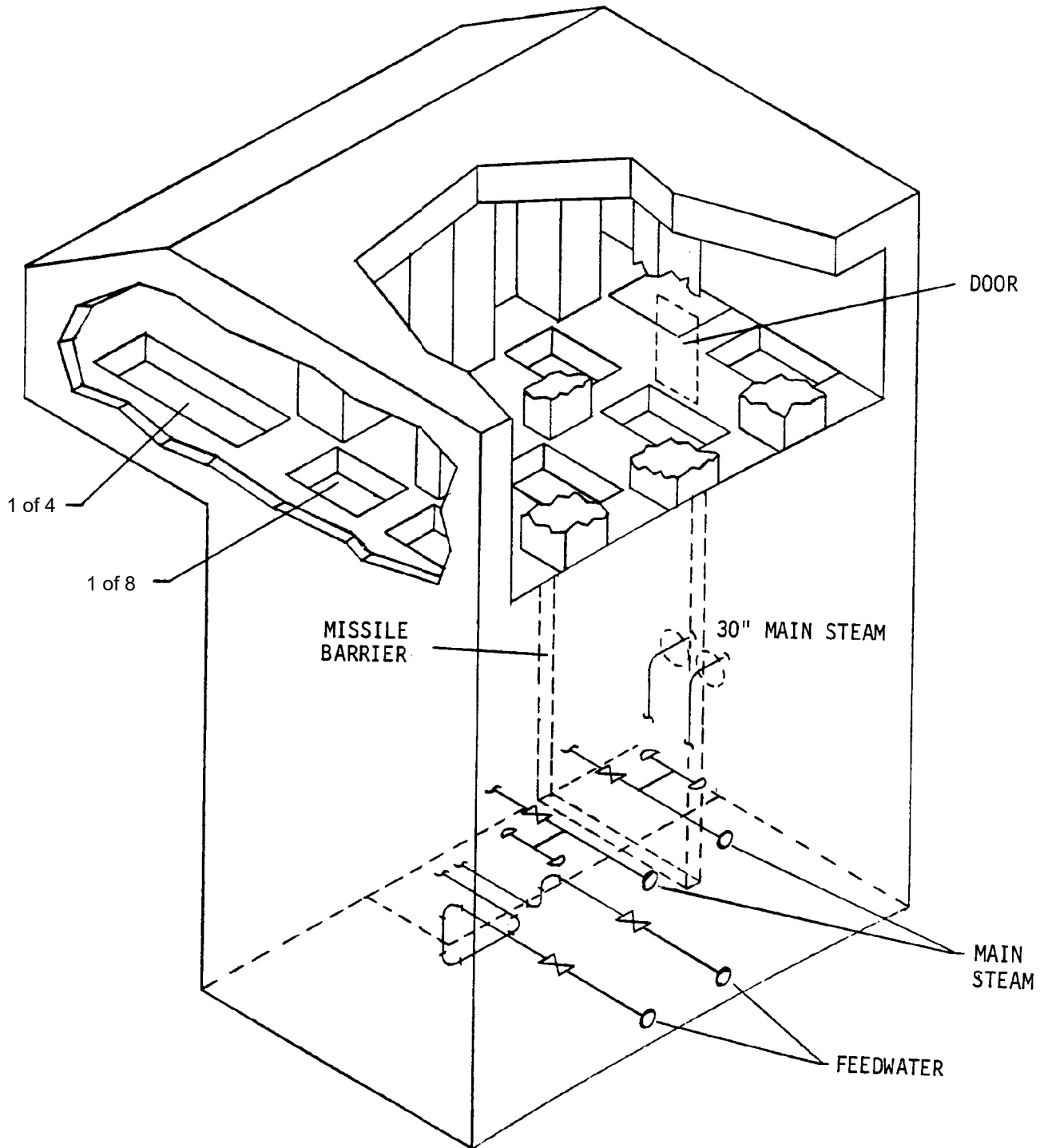
DWG. NO. FSAR FIG. 14.4.8-7

SH 1 of 1



16.6	REVISED PER 99-UFSAR-1345		UNIT 2
REV. NO.	DESCRIPTION		
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AMERICAN ELECTRIC POWER COOK NUCLEAR PLANT NUCLEAR GENERATION GROUP BRIDGMAN, MICHIGAN	TITLE East Steam Enclosure		
	DWG. NO. FSAR FIG. 14.4.9-1		SH 1 of 1

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16.6	REVISED PER 99-UFSAR-1345		UNIT 2
REV. NO.	DESCRIPTION		
REVISIONS			
AMERICAN ELECTRIC POWER COOK NUCLEAR PLANT NUCLEAR GENERATION GROUP BRIDGMAN, MICHIGAN	TITLE West Steam Enclosure		
	DWG. NO. FSAR FIG. 14.4.9-2		SH 1 of 1