

α°	CYLINDRICAL SHELL C_p	HEMISPHERICAL SHELL C_p
0	1.0	1.0
15	0.8	0.9
30	0.1	0.5
45	-0.7	-0.1
60	-1.2	-0.7
75	-1.6	-1.1
90	-1.7	-1.2
105	-1.2	-1.0
120	-0.7	-0.6
135	-0.5	-0.2
150	-0.4	0.1
165	-0.4	0.3
180	-0.4	0.4

$$P = C_p \times q$$

WHERE;

P - DESIGN PRESSURE

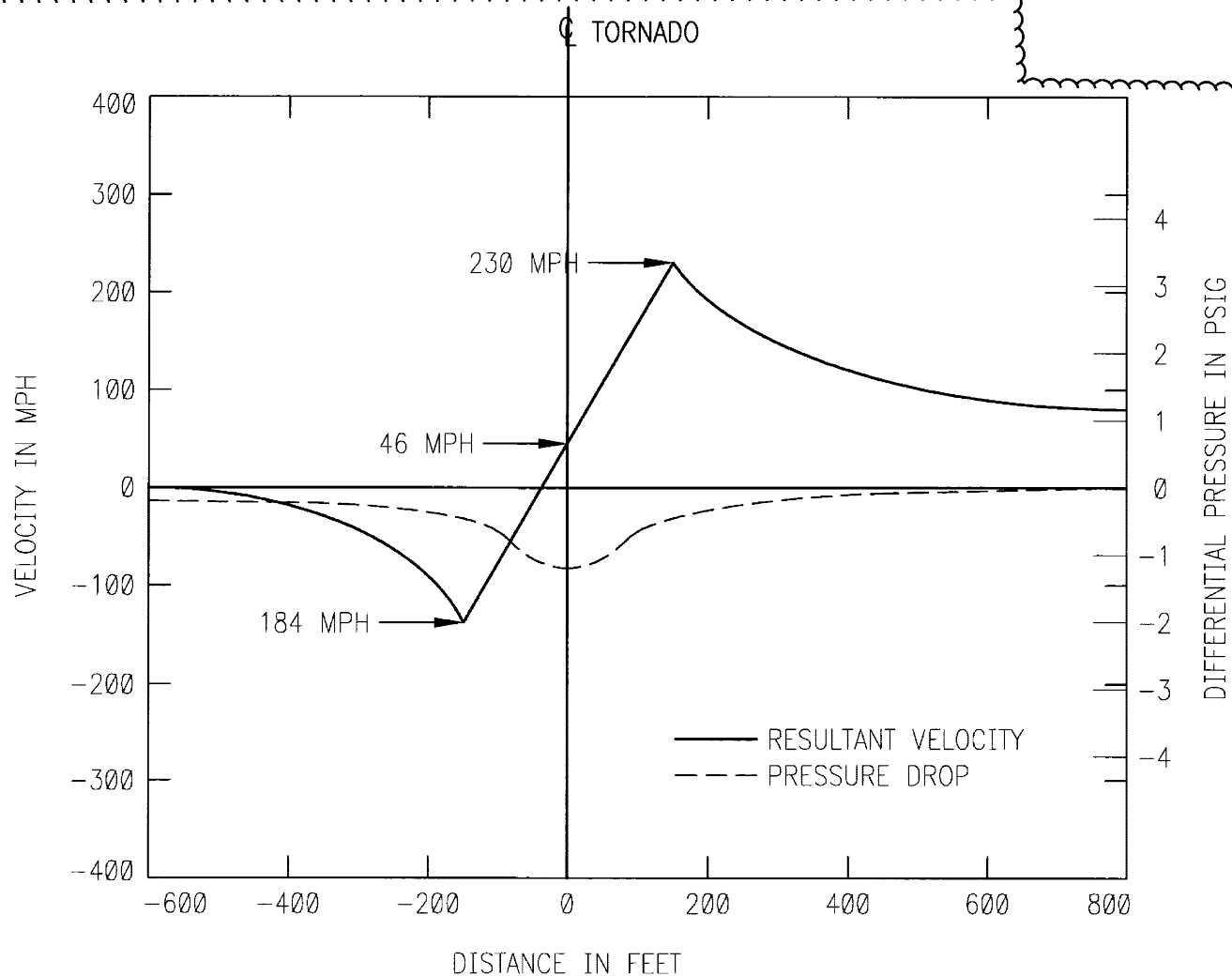
C_p - COEFFICIENT FOR DESIGN PRESSURE

q - DYNAMIC PRESSURE

**CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT**

FIGURE 3.3-2

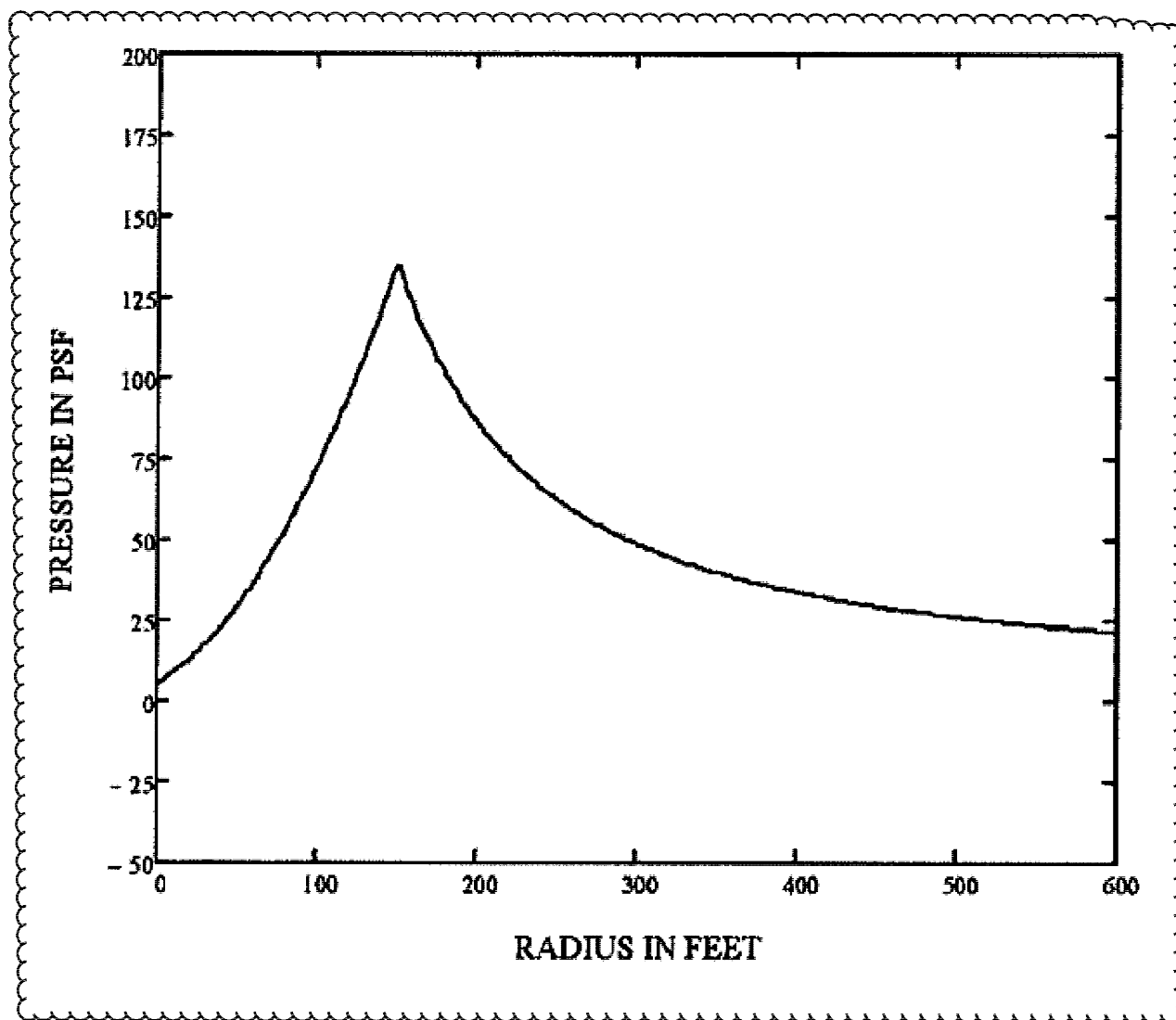
WIND PRESSURE DISTRIBUTION
FOR CONTAINMENT STRUCTURES



TRANSLATION VELOCITY = 46 MPH
TANGENTIAL VELOCITY = 184 MPH AT RADIUS OF 150 FT
PRESSURE DROP = 1.2 PSI WITHIN 2.4 SECONDS

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.3-3
PRESSURE AND VELOCITY
DISTRIBUTION FOR
THE DESIGN-BASIS TORNADO

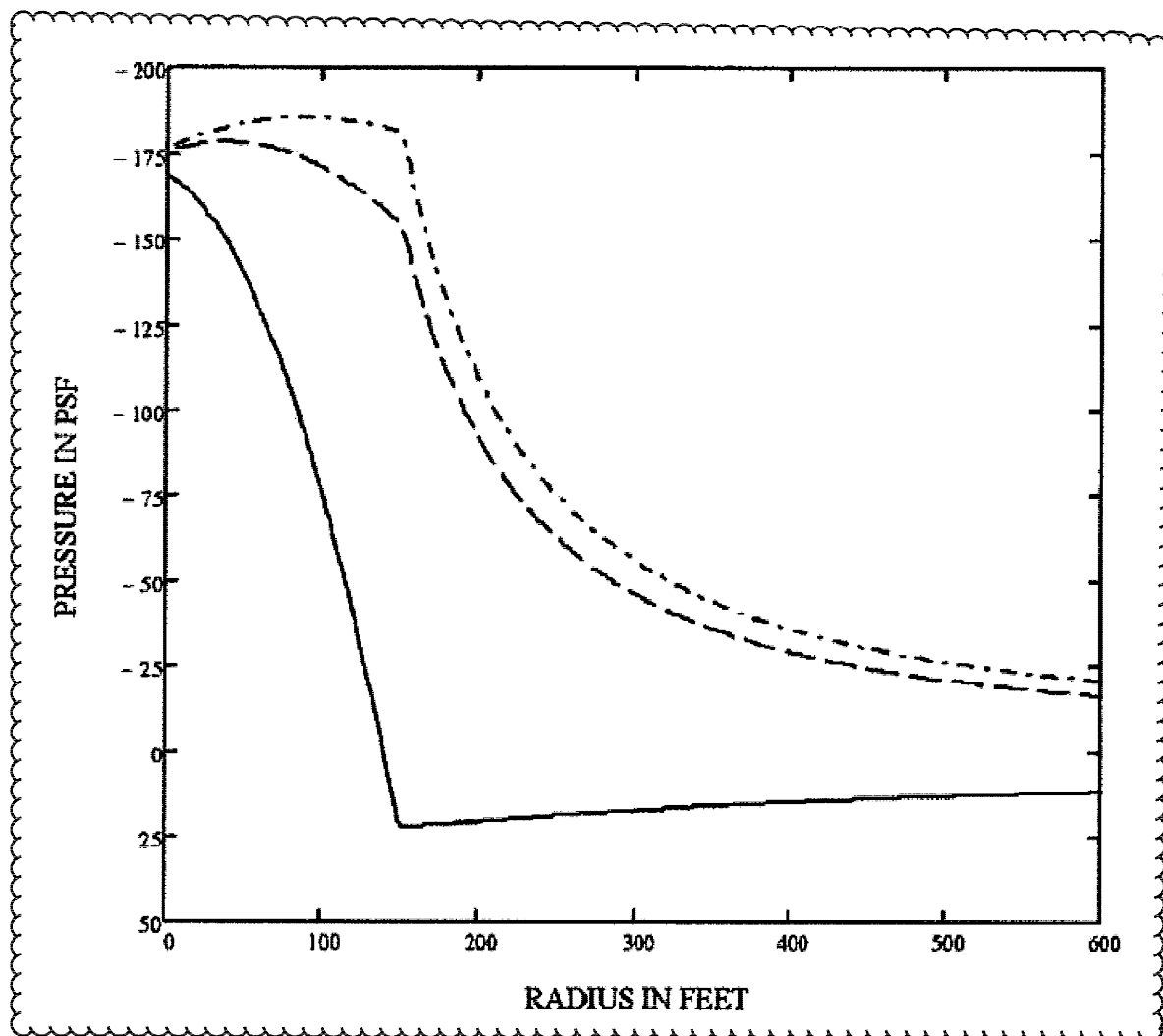


TRANSLATION VELOCITY = 46 MPH
TANGENTIAL VELOCITY = 184 MPH AT RADIUS OF 150 FT

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.3-4

EFFECTIVE VELOCITY PRESSURE
DISTRIBUTION FOR
THE DESIGN-BASIS TORNADO



KEY

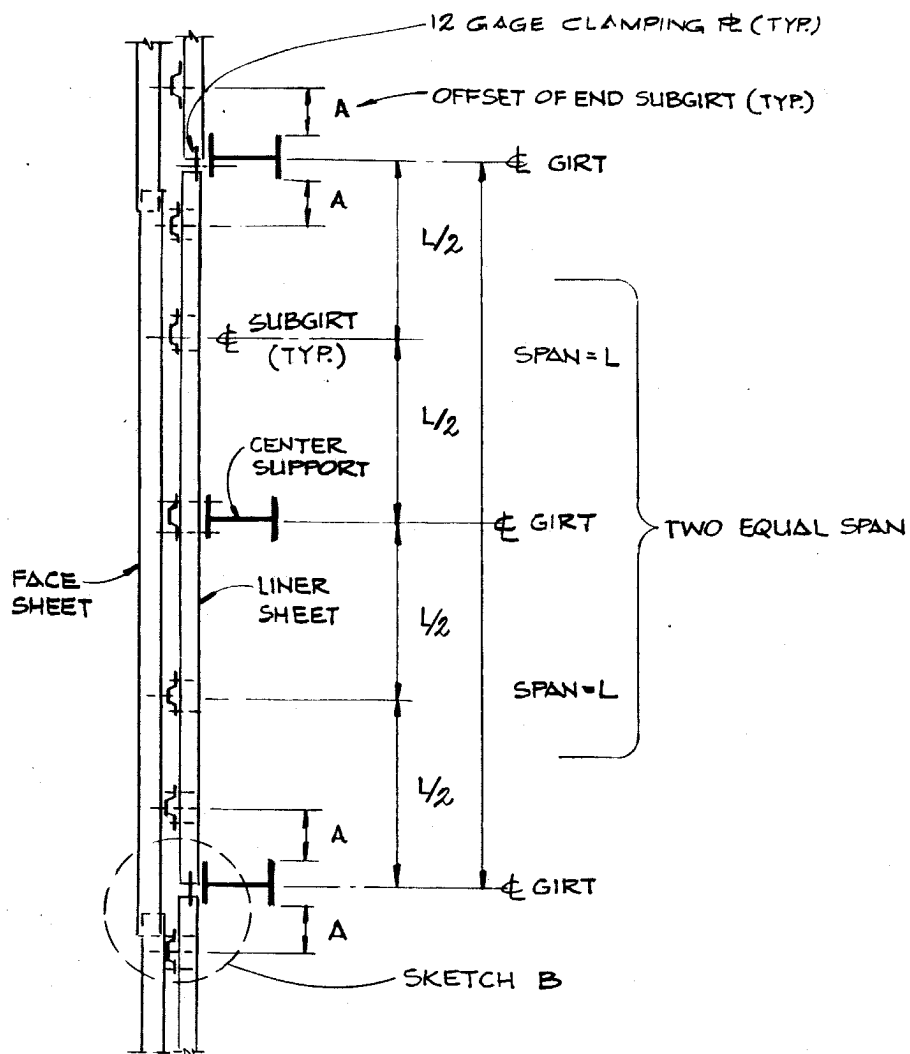
- RESULTANT SURFACE PRESSURE FOR WINDWARD WALLS
- - - - - RESULTANT SURFACE PRESSURE FOR LEEWARD WALLS
- · - · - RESULTANT SURFACE PRESSURE FOR SIDEWALLS AND ROOFS

TRANSLATION VELOCITY = 46 MPH
TANGENTIAL VELOCITY = 184 MPH AT RADIUS OF 150 FT
PRESSURE DROP = 1.2 PSI WITHIN 2.4 SECONDS

CLINTON POWER STATION
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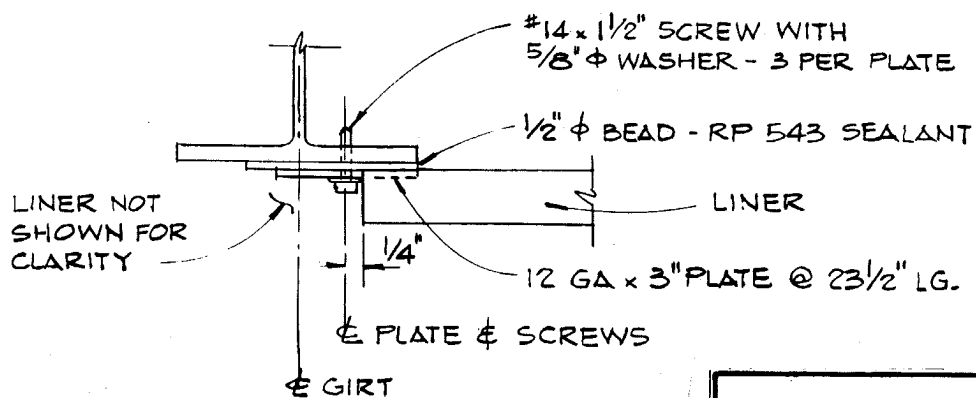
FIGURE 3.3-5

RESULTANT SURFACE PRESSURES FOR
THE DESIGN-BASIS TORNADO FOR
RECTANGULAR FLAT-TOPPED STRUCTURES



INSULATION NOT SHOWN FOR CLARITY

SKETCH A



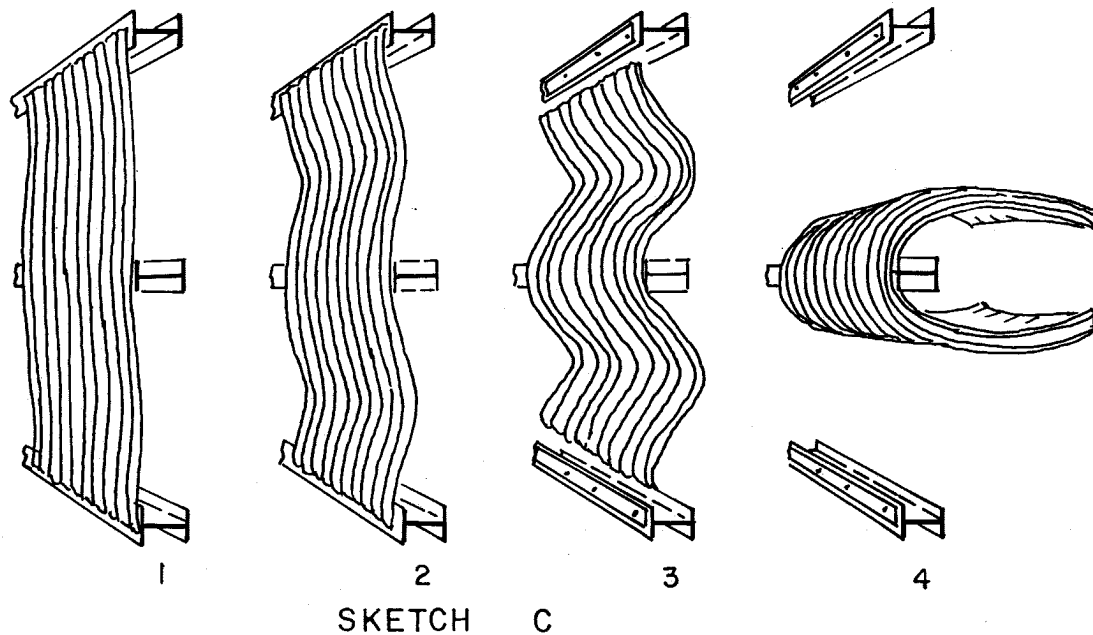
SKETCH B

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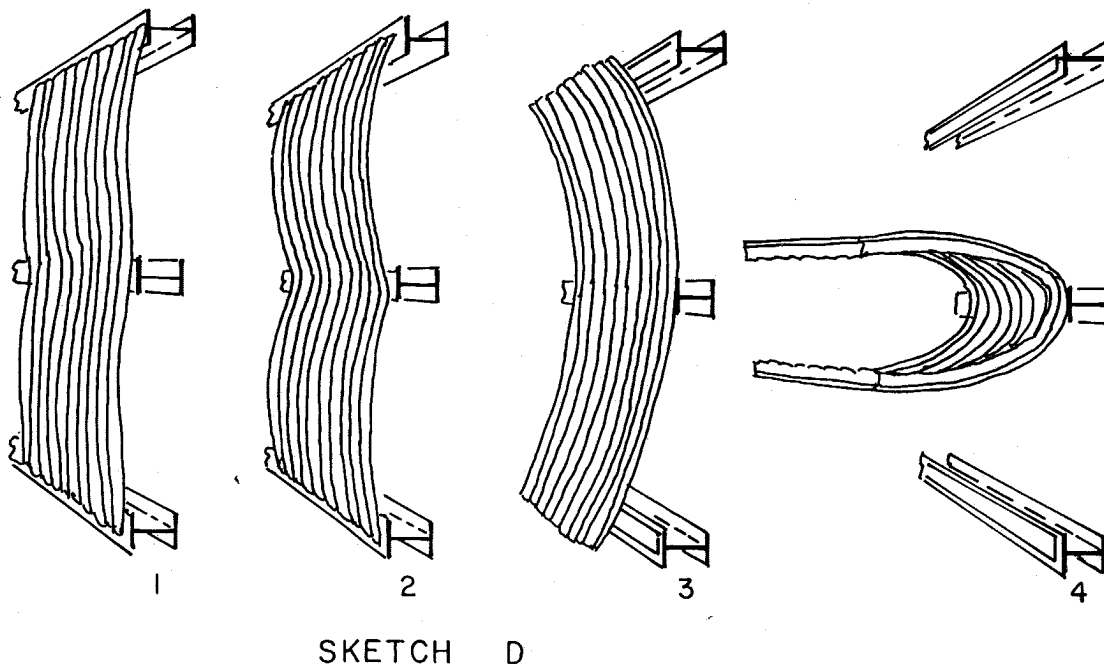
Figure 3.3-6
(Q & R 220.03)

TURBINE BUILDING SIDING
(SKETCHES A & B)

INWARD RELEASE MECHANISM



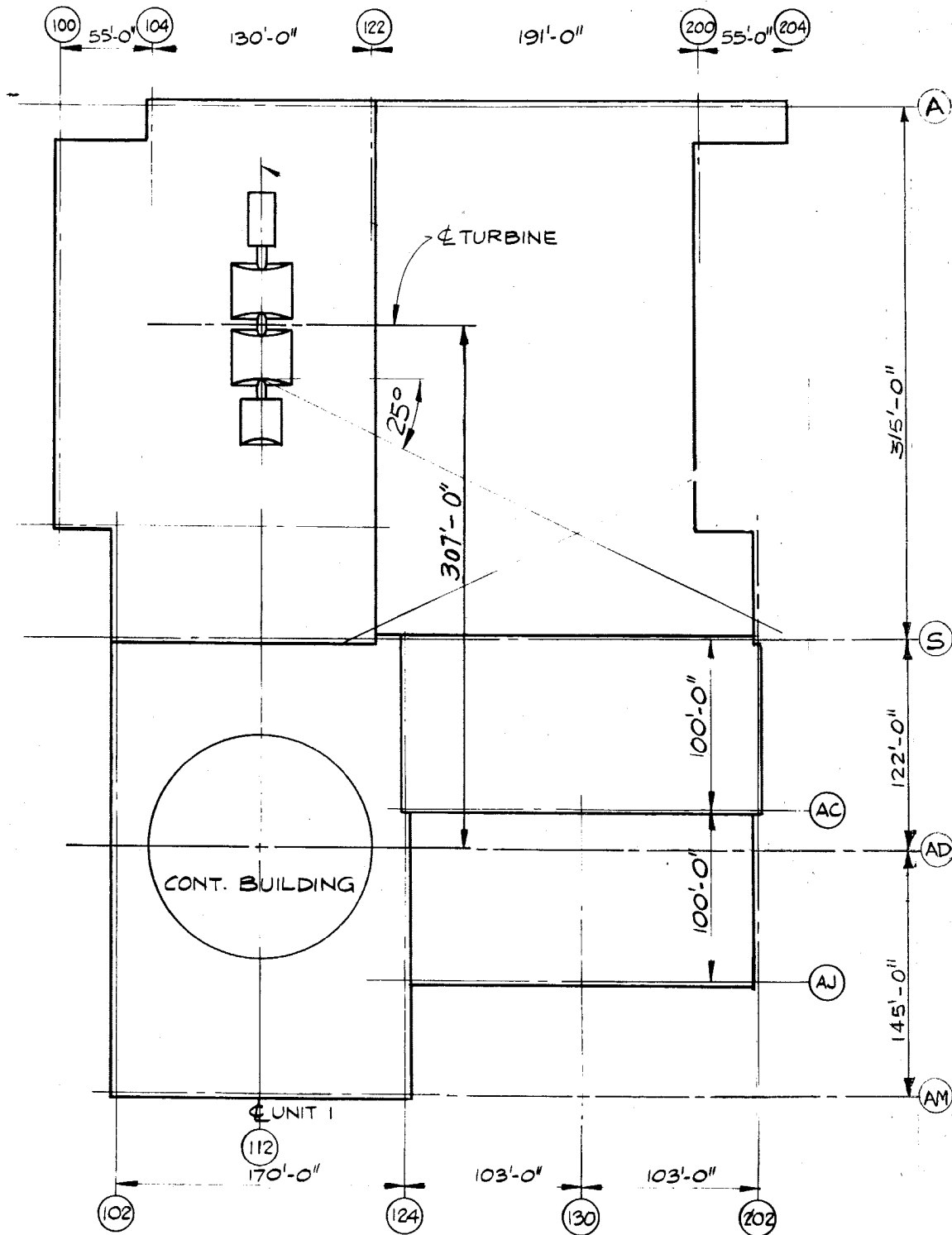
OUTWARD RELEASE MECHANISM



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

Figure 3.3-7
(Q & R 220.03)

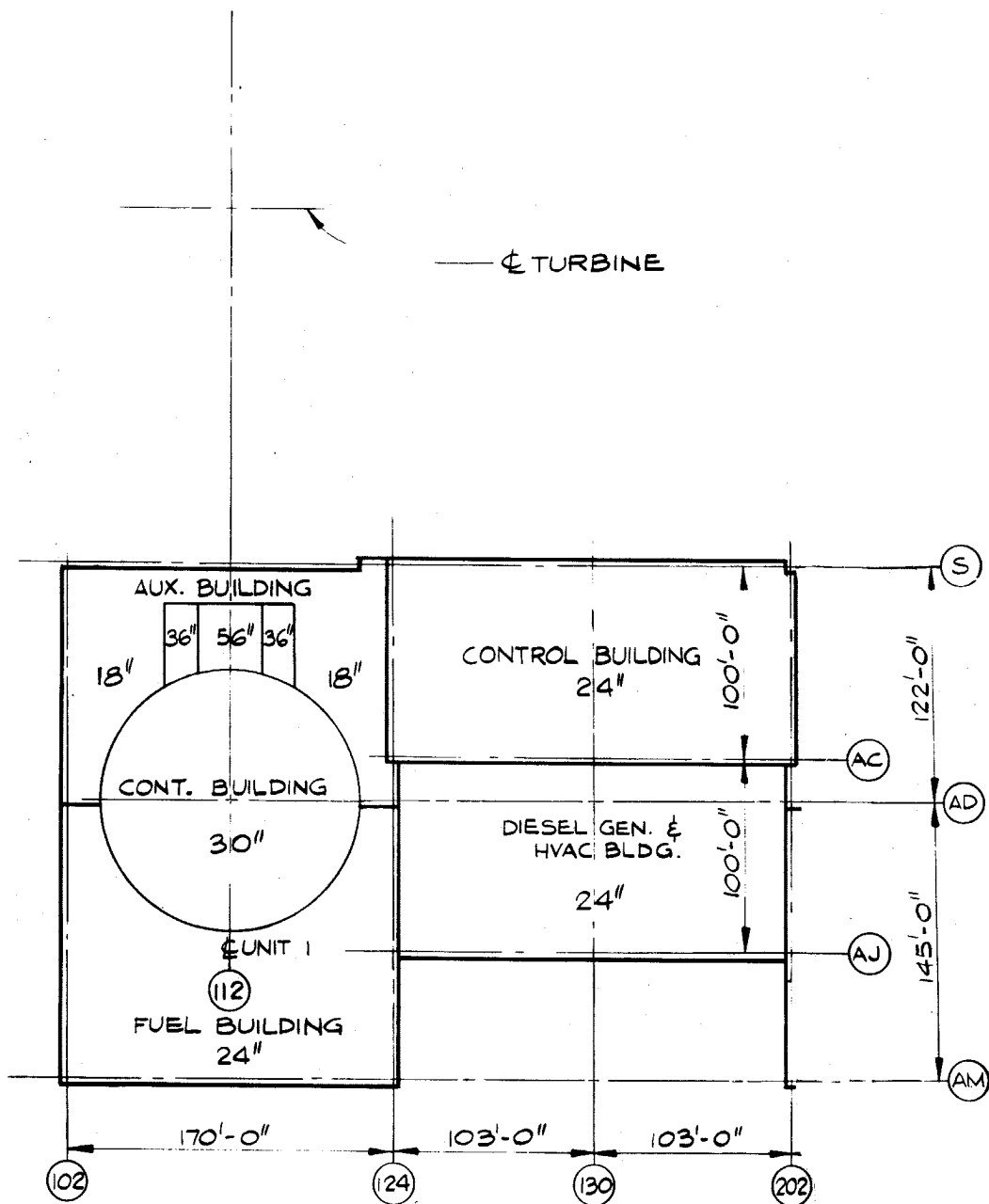
RELEASE MECHANISMS
(SKETCHES C & D)



CLINTON POWER STATION
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FIGURE 3.5-1

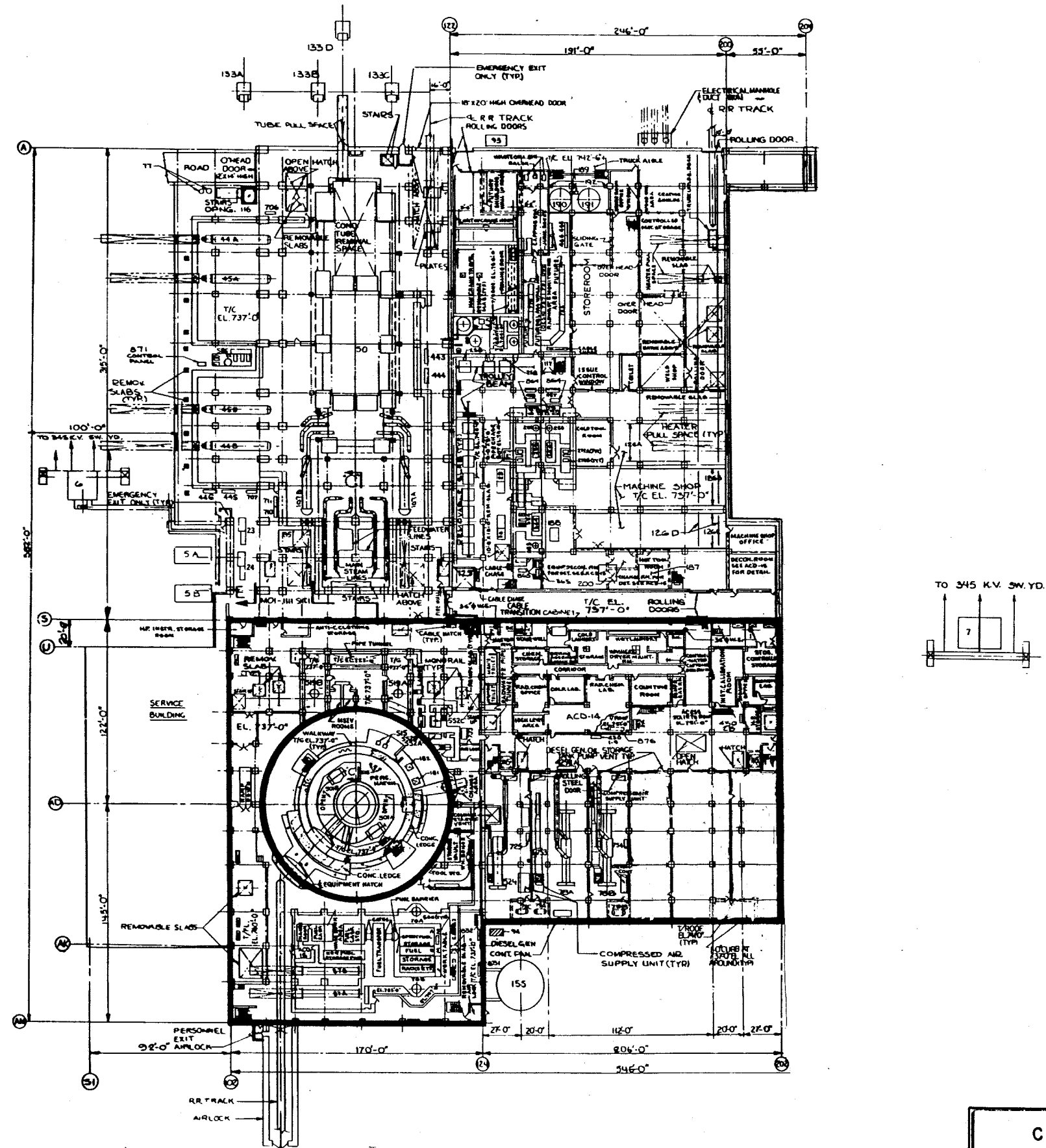
TURBINE ORIENTATION AND LOCATION



CLINTON POWER STATION
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FIGURE 3.5-2

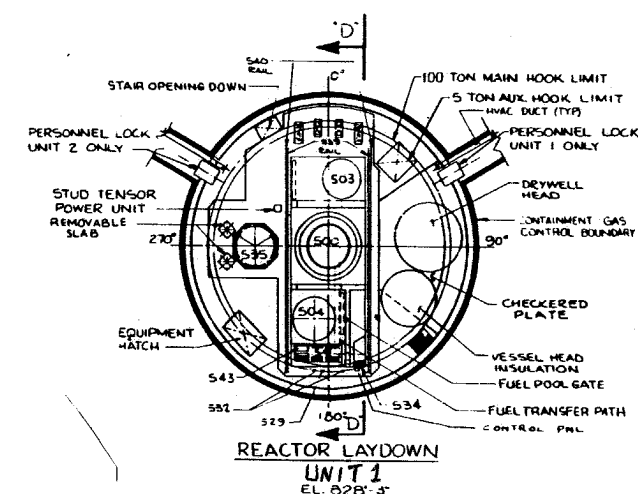
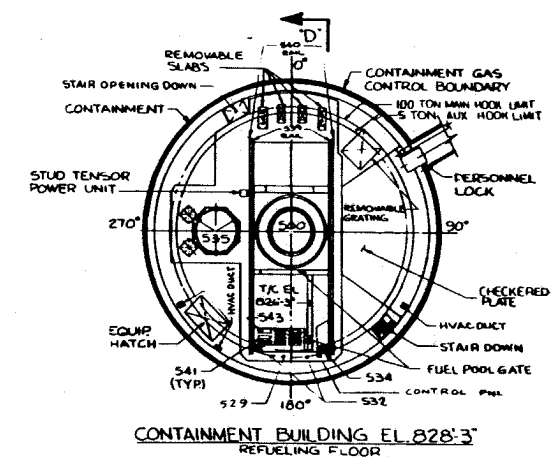
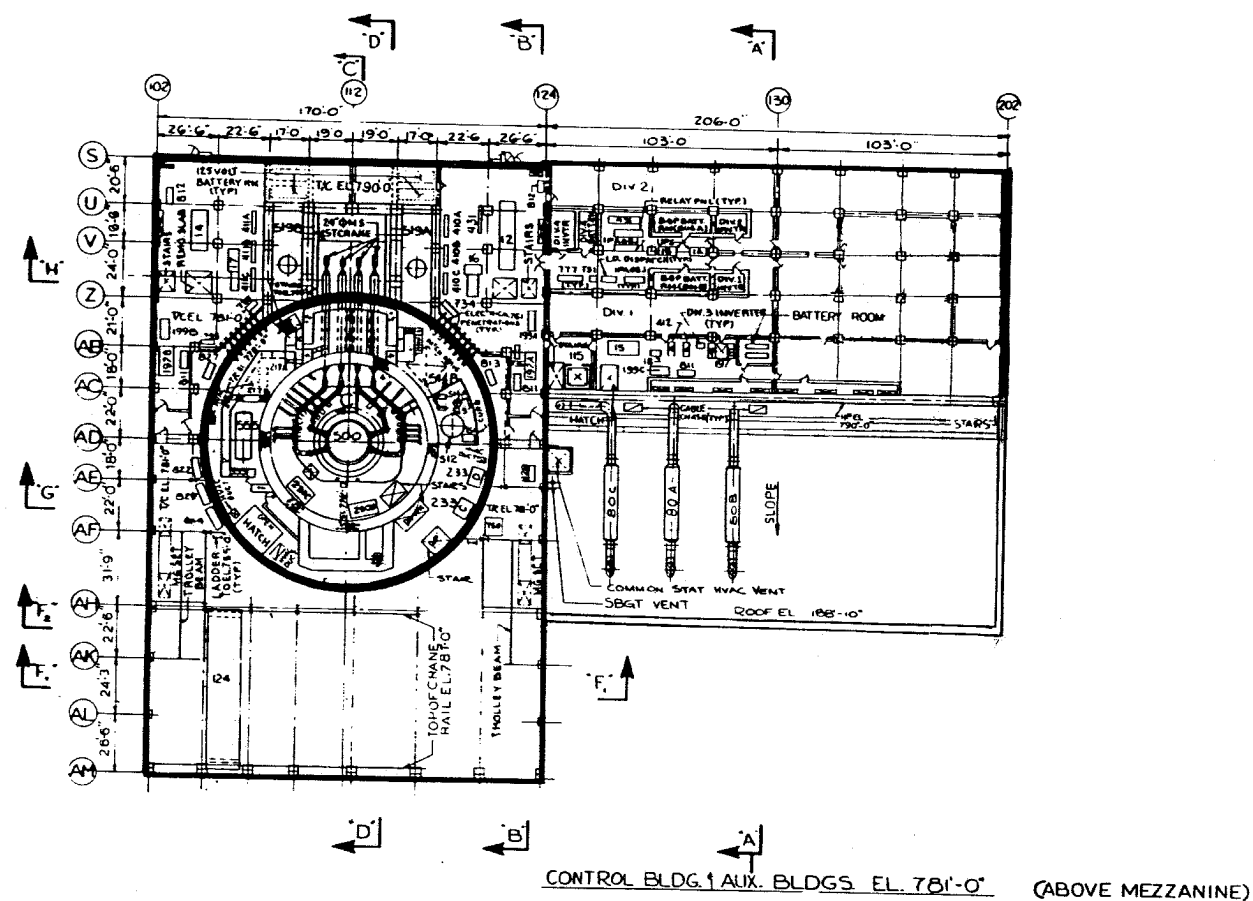
SAFETY RELATED STRUCTURES,
DIMENSION AND ROOF THICKNESS



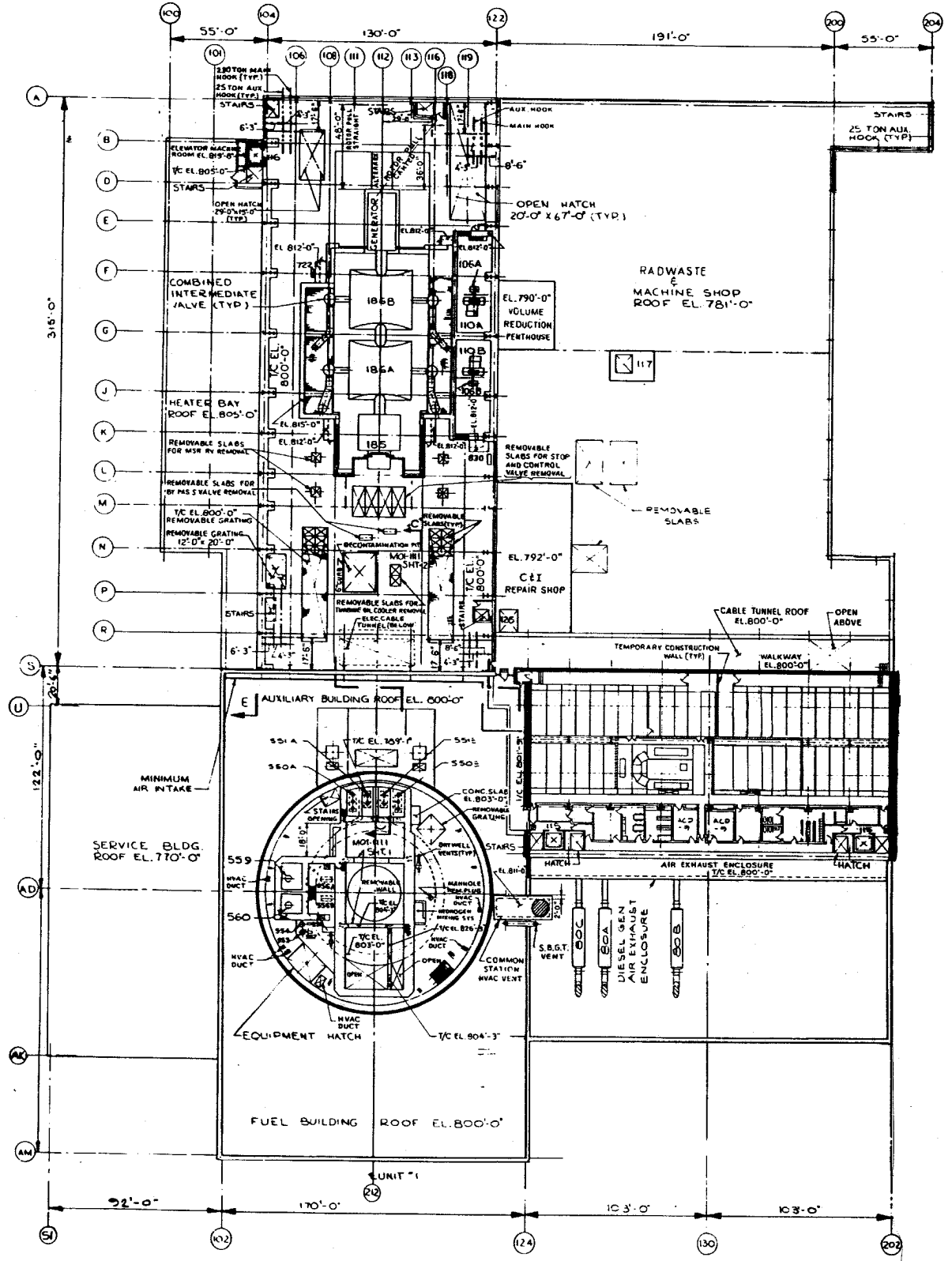
MISSILE PROOF WALLS
EL. 737'-0"

CLINTON POWER STATION UPDATED SAFETY ANALYSIS REPORT

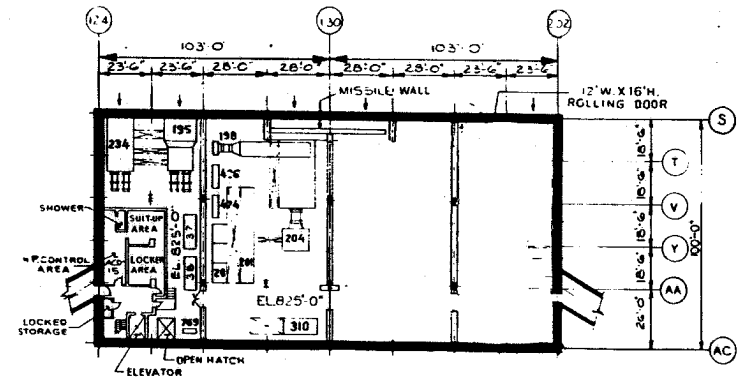
FIGURE 3.5-3
MISSILE PROOF WALLS
(SHEET 1 OF 5)



MISSILE PROOF WALLS
EL. 778'-0"



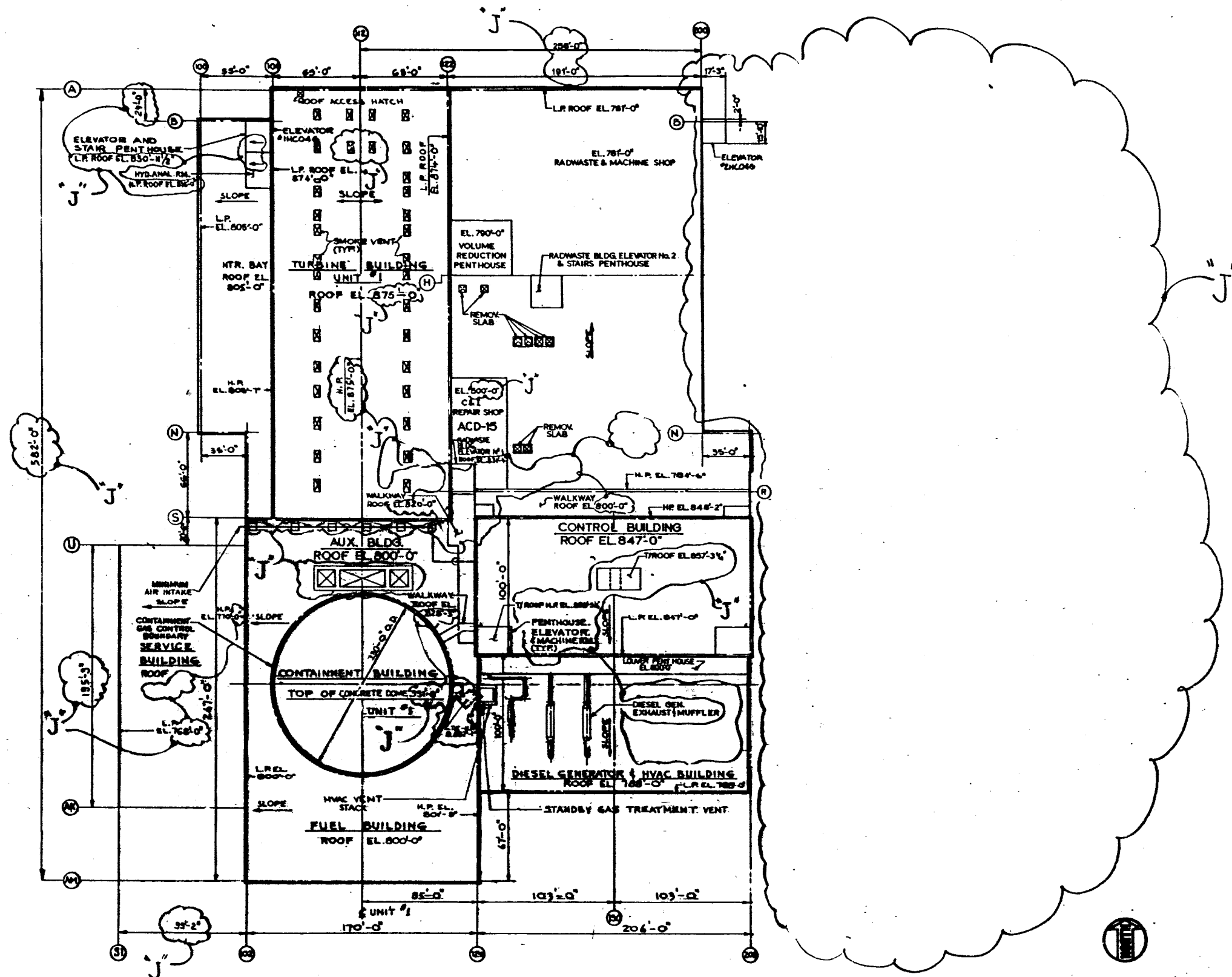
MISSILE PROOF WALLS
EL. 803'-3"



HVAC FLOOR EL. 825'-0"
(ABOVE CONTROL ROOM)

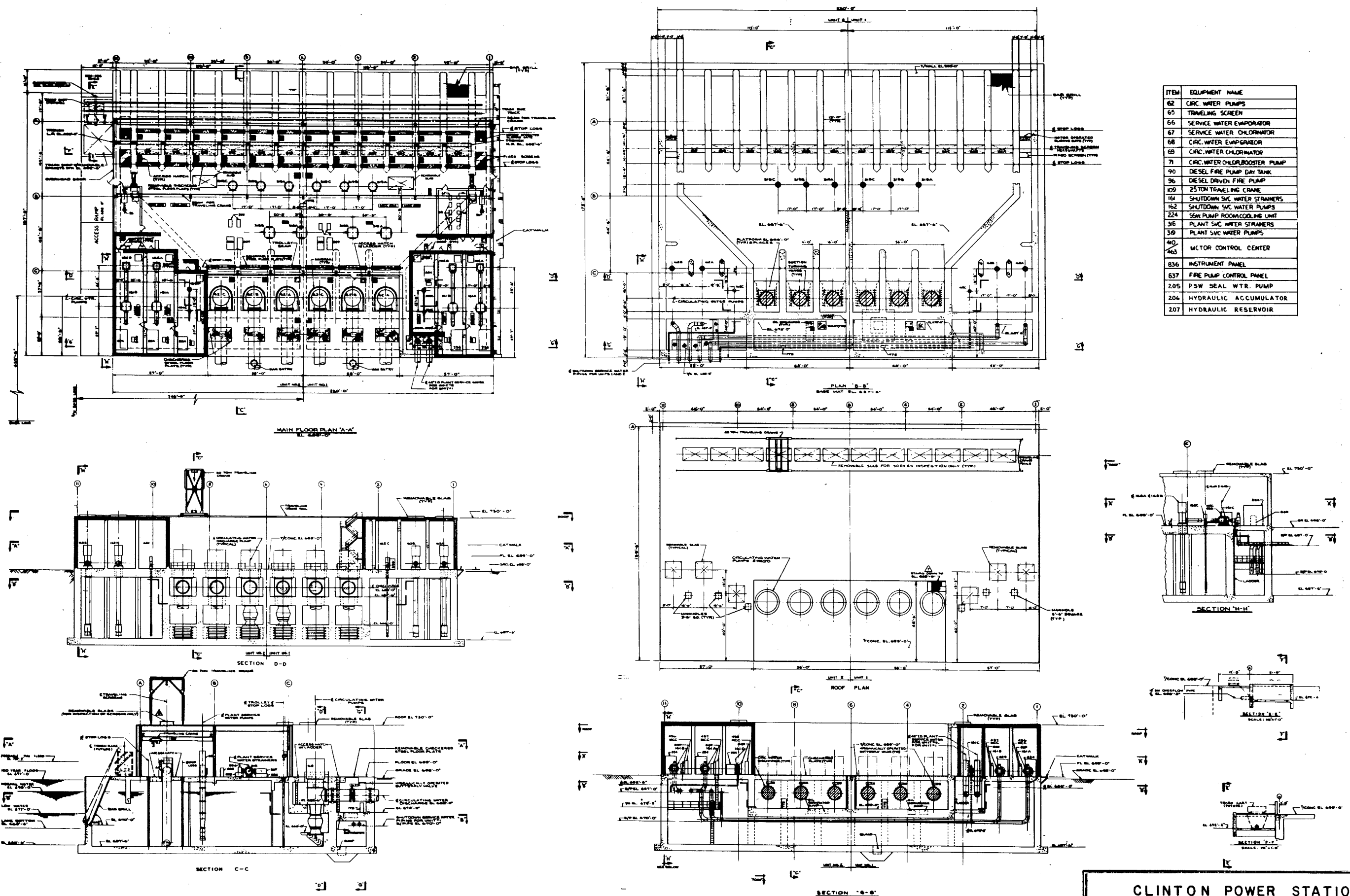
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FIGURE 3.5-3
MISSILE PROOF WALLS
(SHEET 4 OF 5)



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FIGURE 3.5-3
MISSILE PROOF WALLS
(SHEET 5 OF 5)

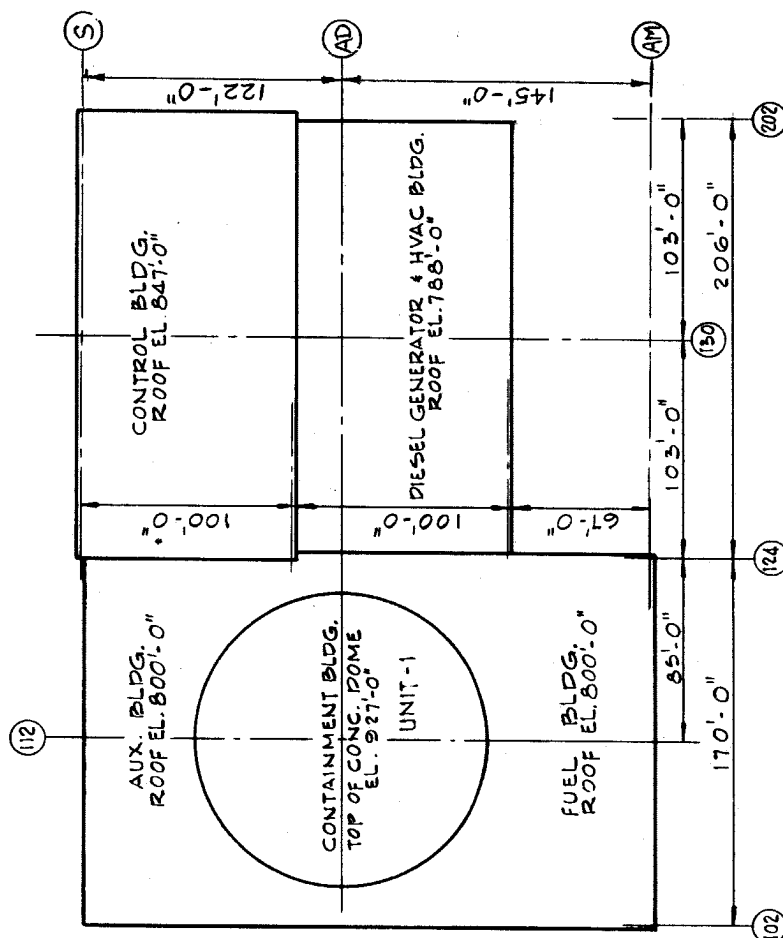


MISSILE PROOF WALLS
CIRCULATING WATER SCREEN HOUSE

CLINTON POWER STATION
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FIGURE 3.5-4

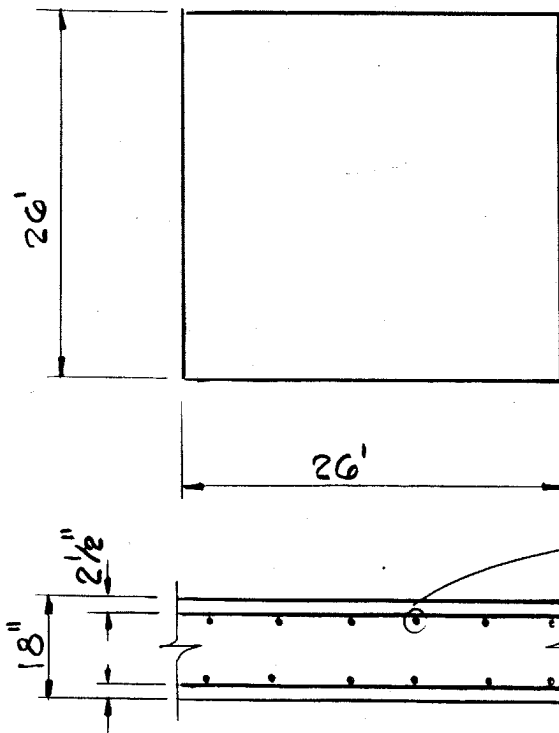
MISSILE PROOF WALLS
CIRCULATING WATER SCREEN HOUSE



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FIGURE 3.5-5

ROOF SLAB FOR MISSILE BARRIER



$f'_c = 3500 \text{ PSI}$

$f_y = 60 \text{ KSI}$

MISSILE-RESISTANT CONCRETE PANEL

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

Figure 3.5-6
(Q & R 220.07)

MISSILE-RESISTANT CONCRETE PANEL