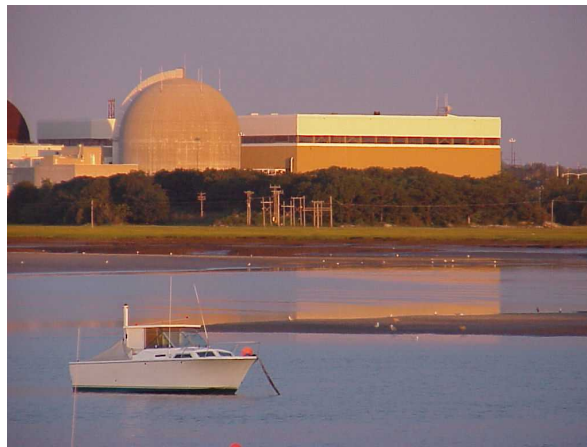
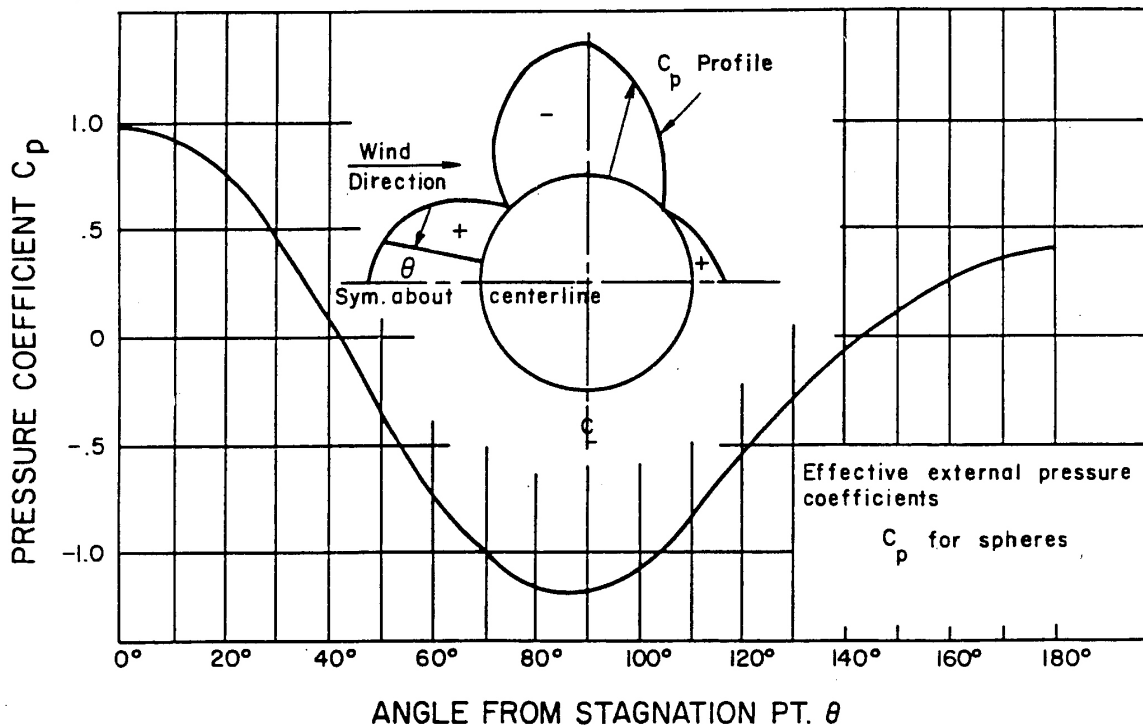
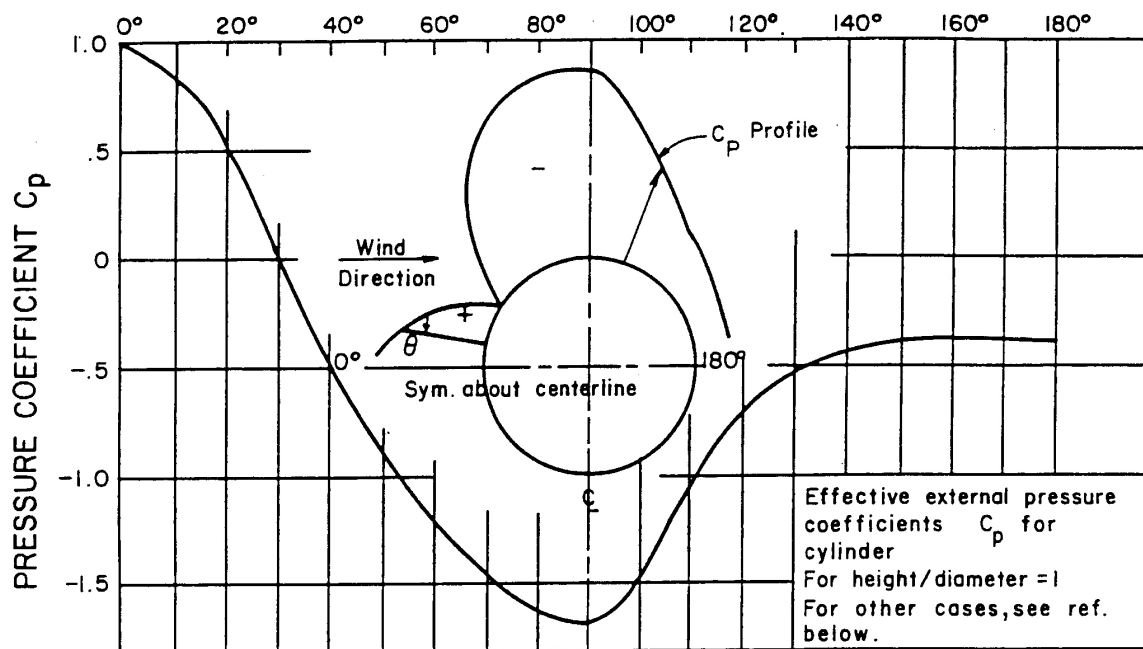


SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT

CHAPTER 3 DESIGN OF STRUCTURES, COMPONENTS, EQUIPMENT AND SYSTEMS

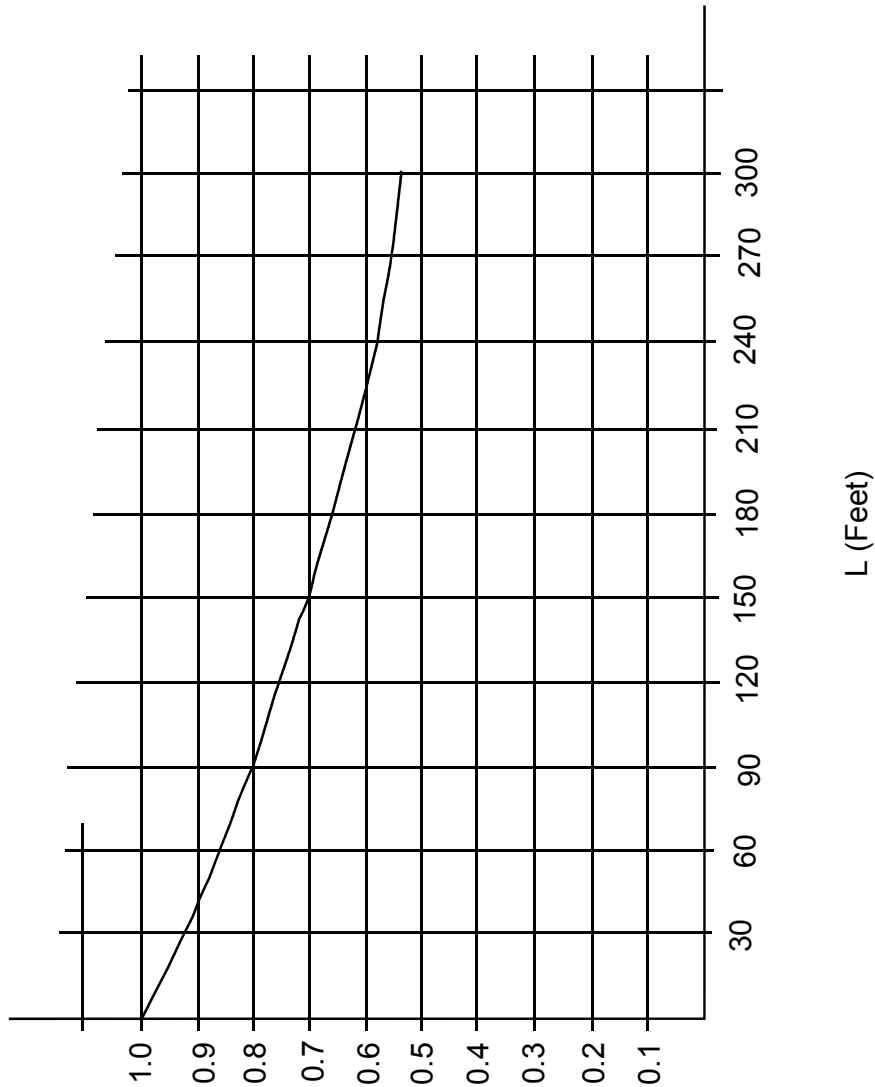
FIGURES





SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	Pressure Coefficients Distribution for Cylinders and Spheres	
		Figure 3.3-1

Size Factor C_s = Average Pressure/Max. Tornado Pressure



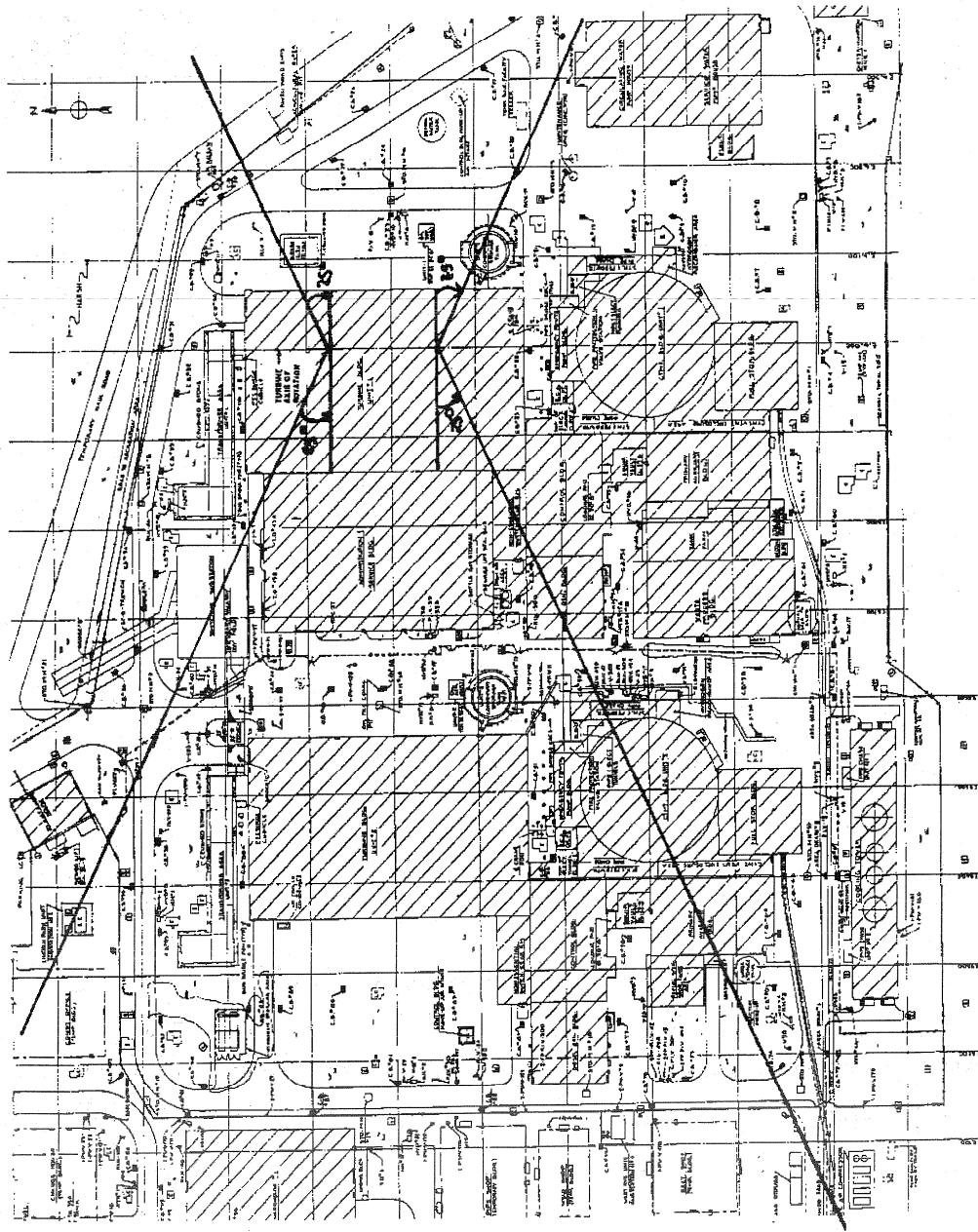
Size Factor C_s = Average Pressure/Max. Tornado Pressure

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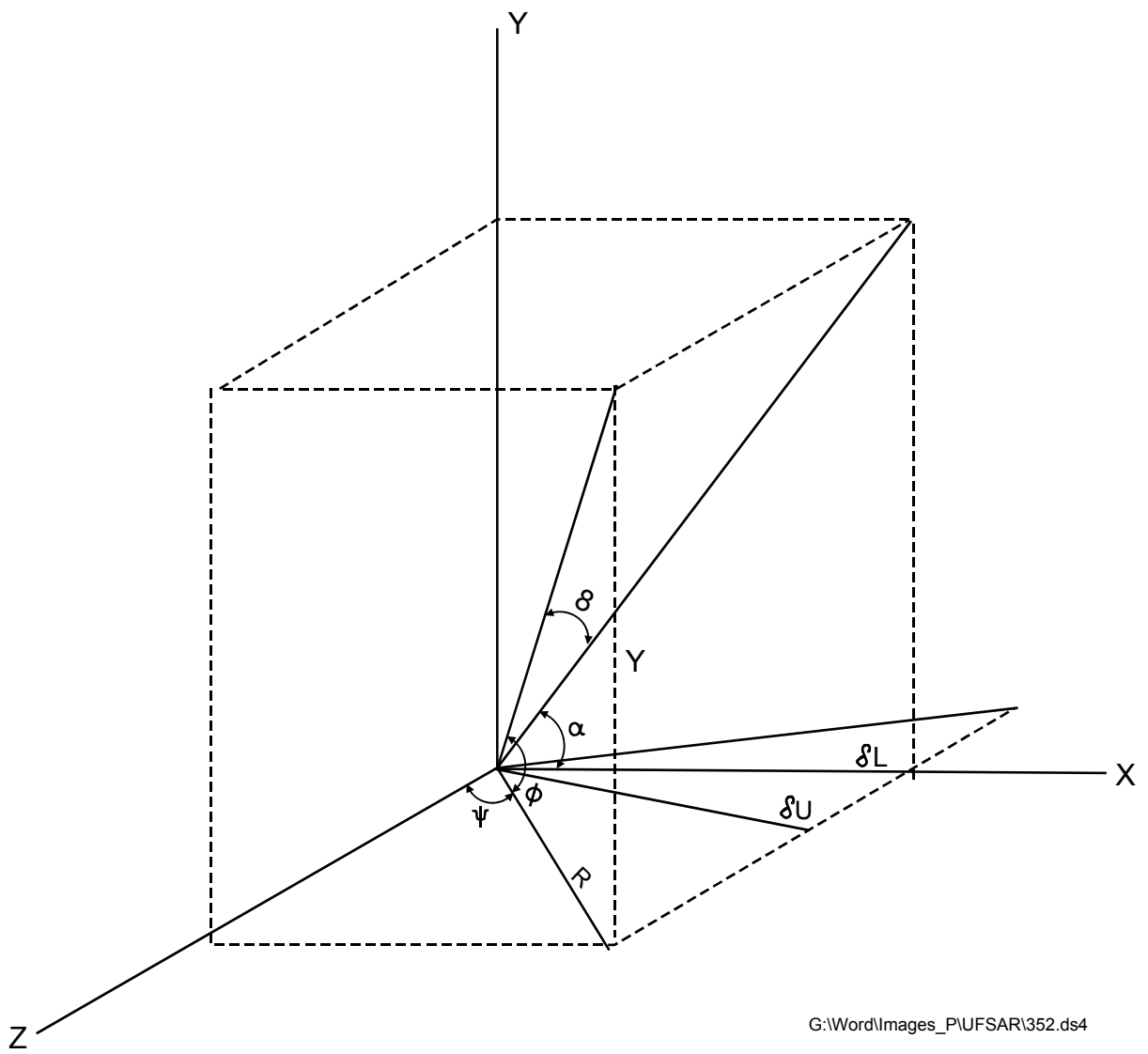
SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	Tornado Size Factor C_s Versus Building Length (L)	
		Figure 3.3-2

See 101696

SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	Waterproofing Concrete Typical Details	
		Figure 3.4-1



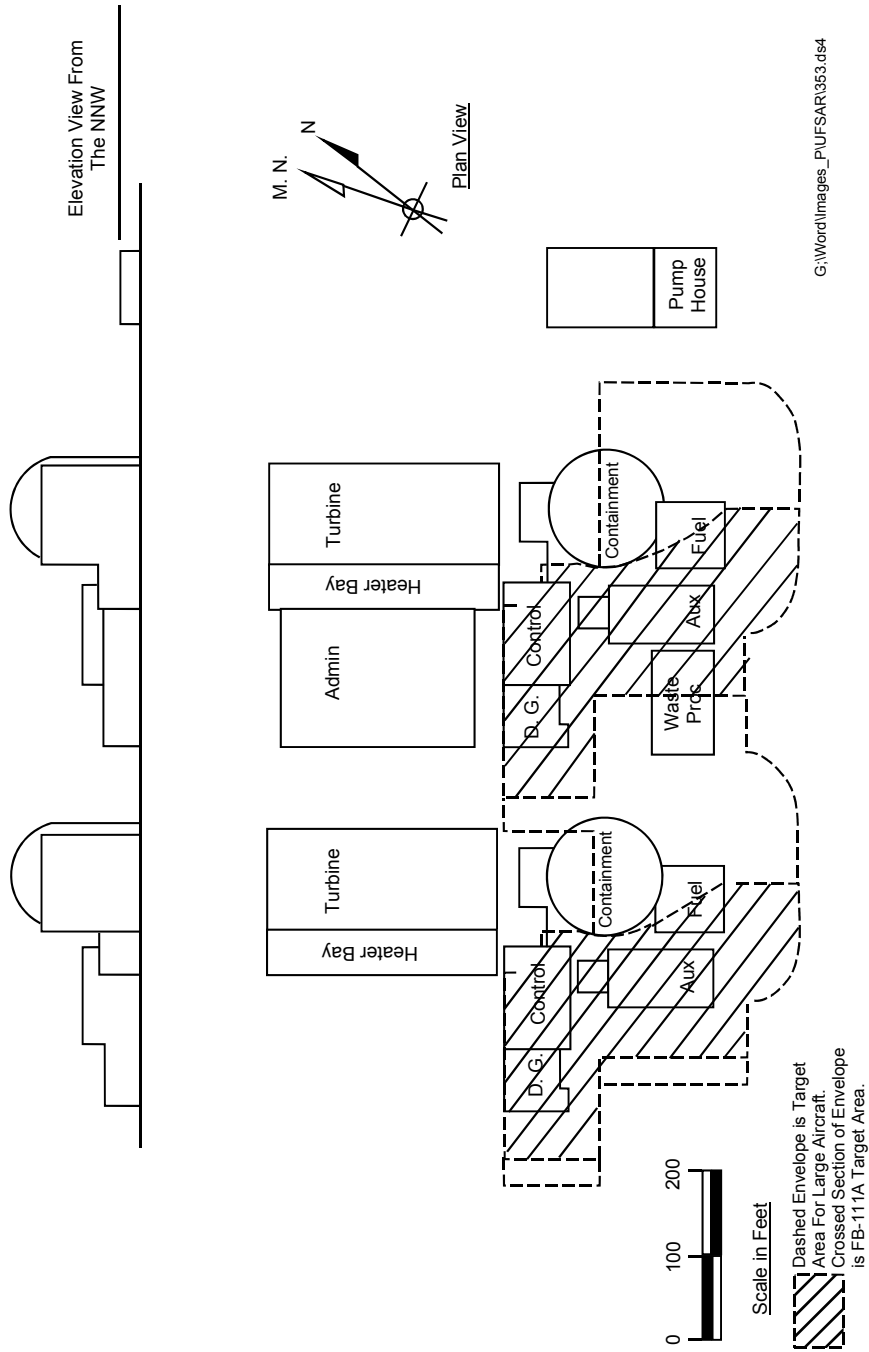
<p>SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT</p>	Possible Turbine Missile Trajectory	
		Figure 3.5-1

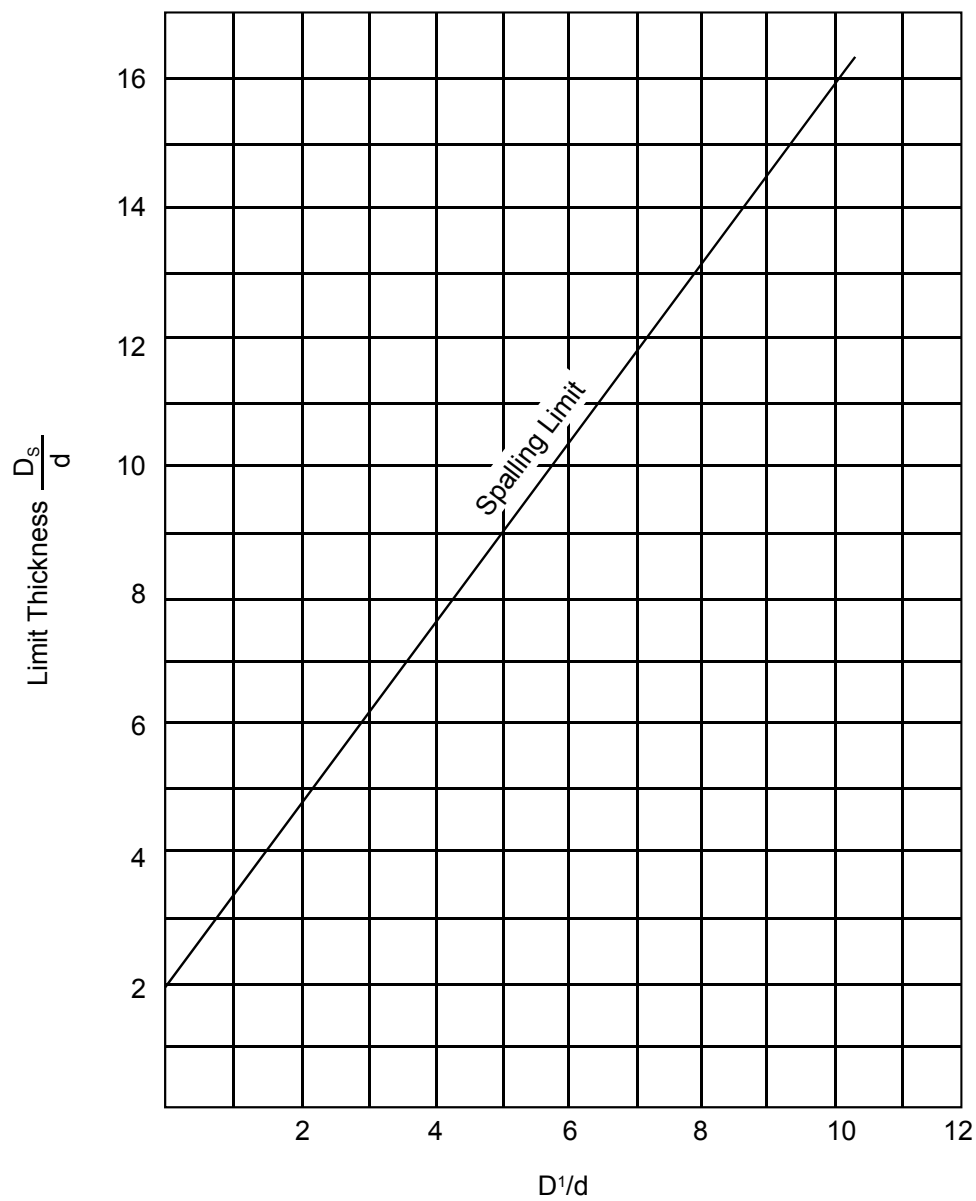


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SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	Coordinate Systems	
		Figure 3.5-2

SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	Plot Plan and Elevation View Showing Effective Target Area	
	Figure	3.5-3

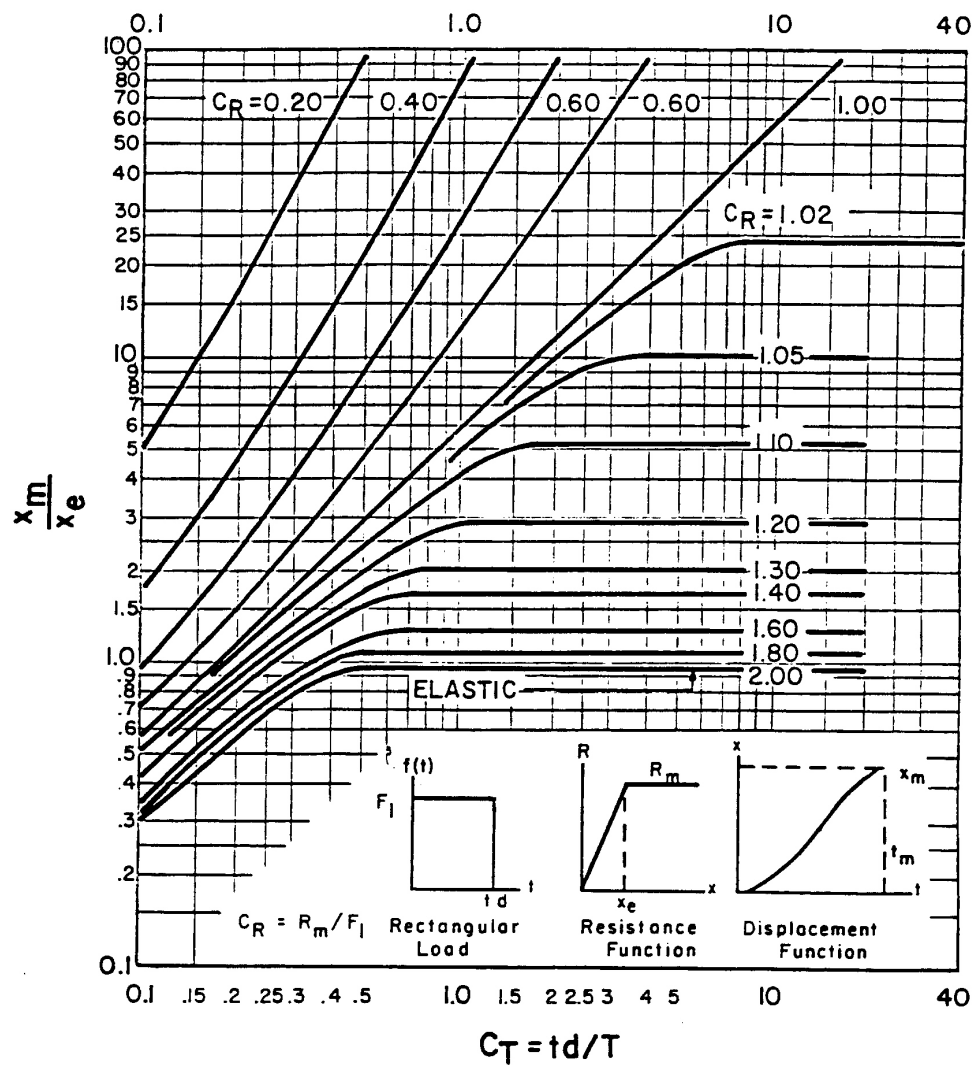




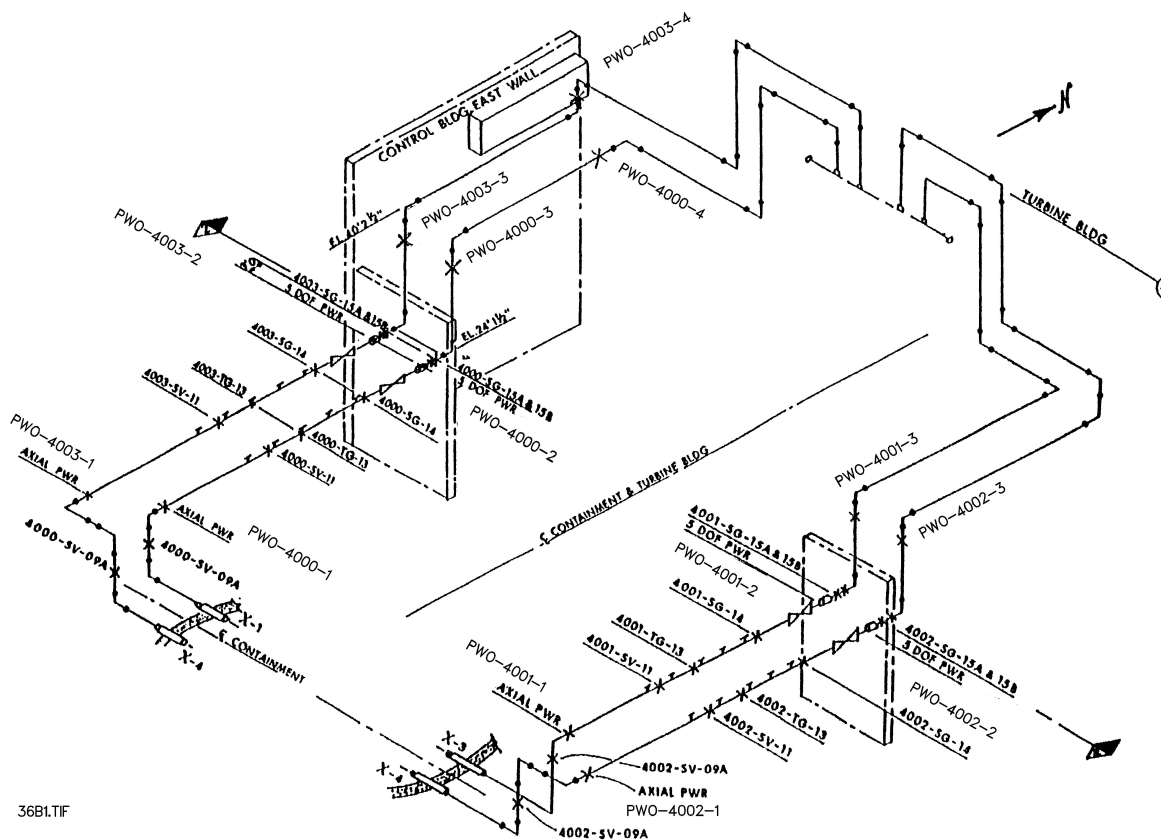
D' = Penetration
 d = Diameter of Missile
 D_s = Thickness required to Prevent Spalling

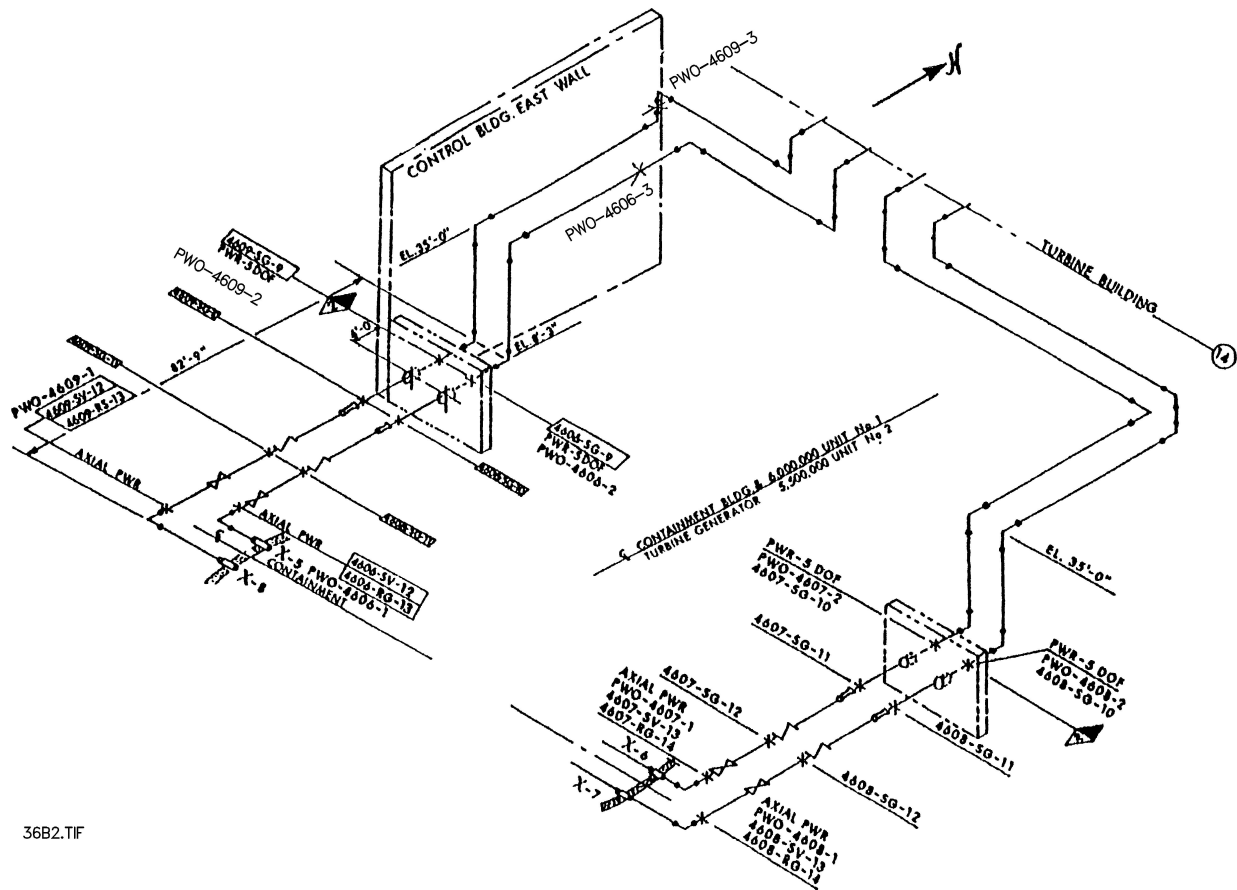
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SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	Relationship of Penetration to Scabbing Limit Thickness (Reference 12)	
		Figure 3.5-4

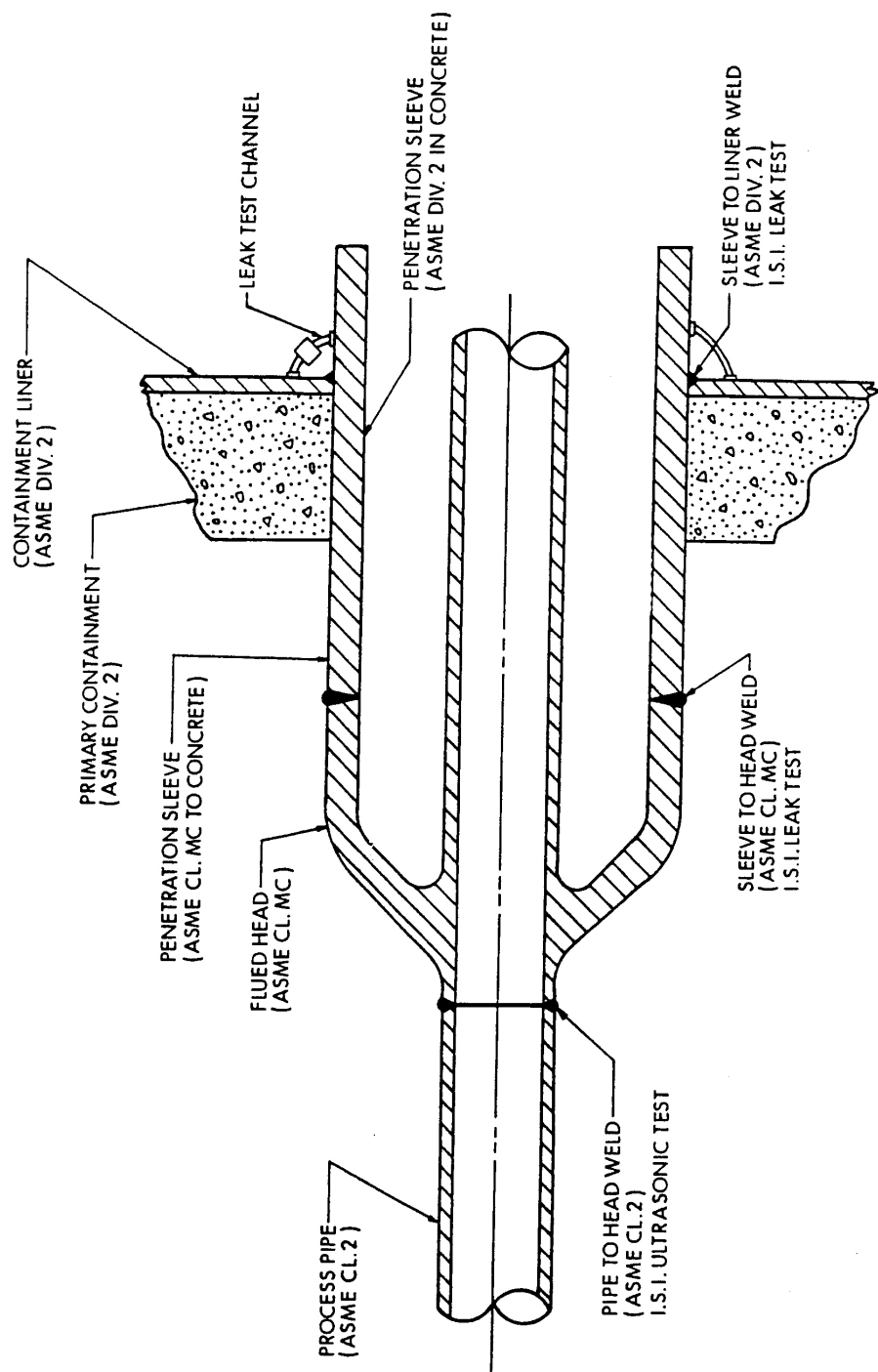


SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	X _m /X _e Curves for Elasto-Plastic System Rectangular Impulse Load (Reference 15)	
		Figure 3.5-5

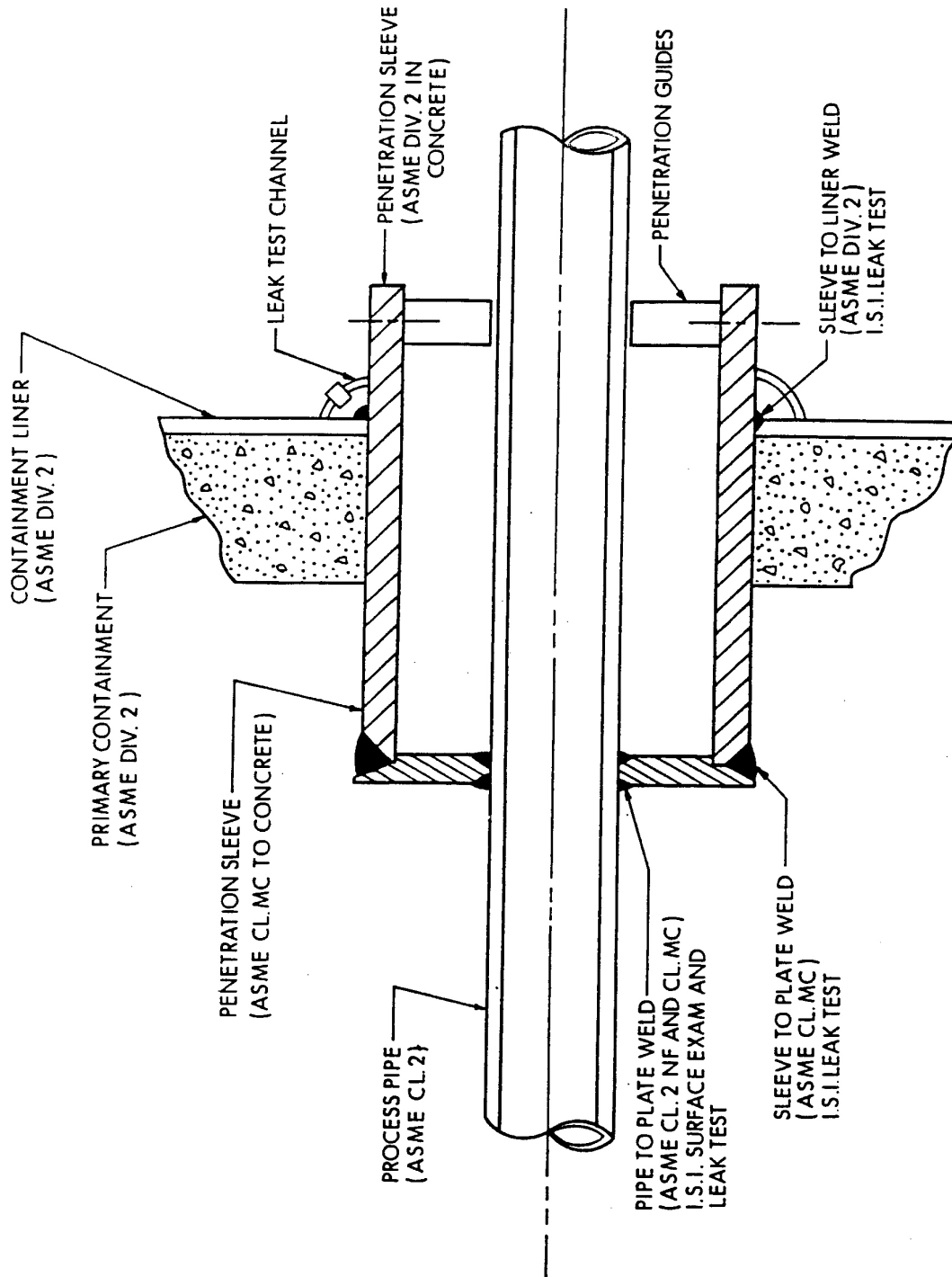




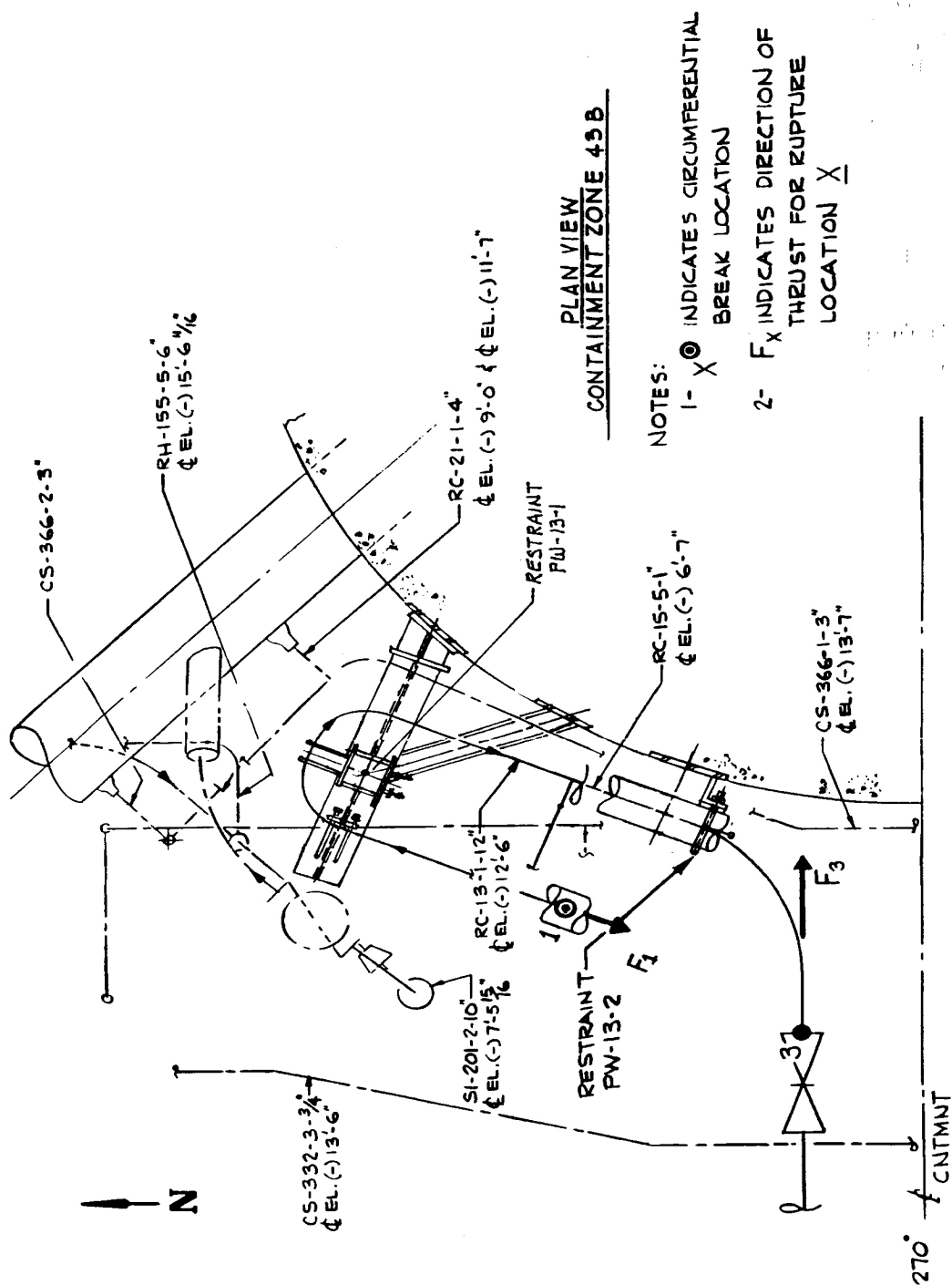
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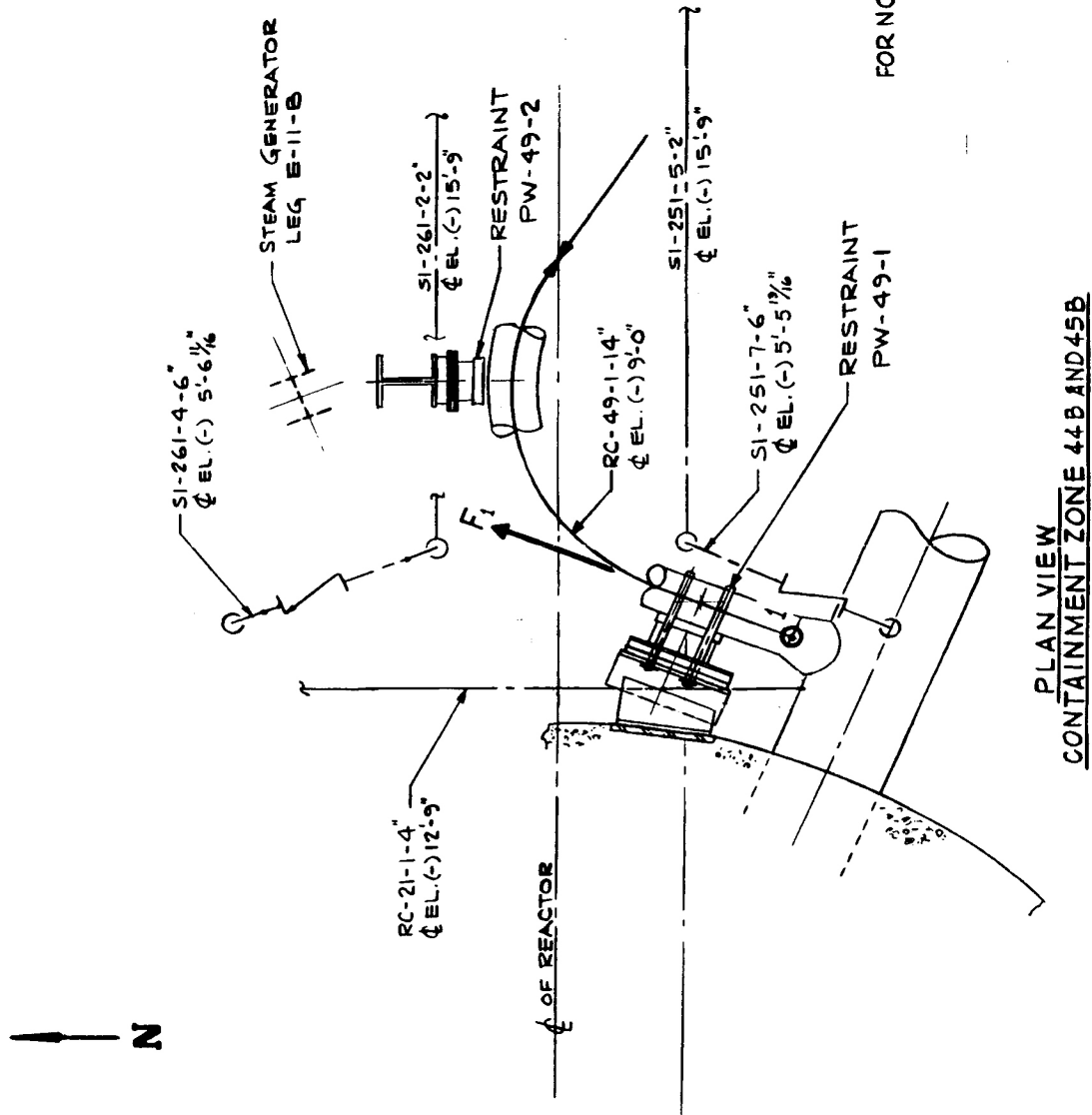


SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	Containment Penetration (Hot High Energy Lines)	
		Figure 3.6(B)-3

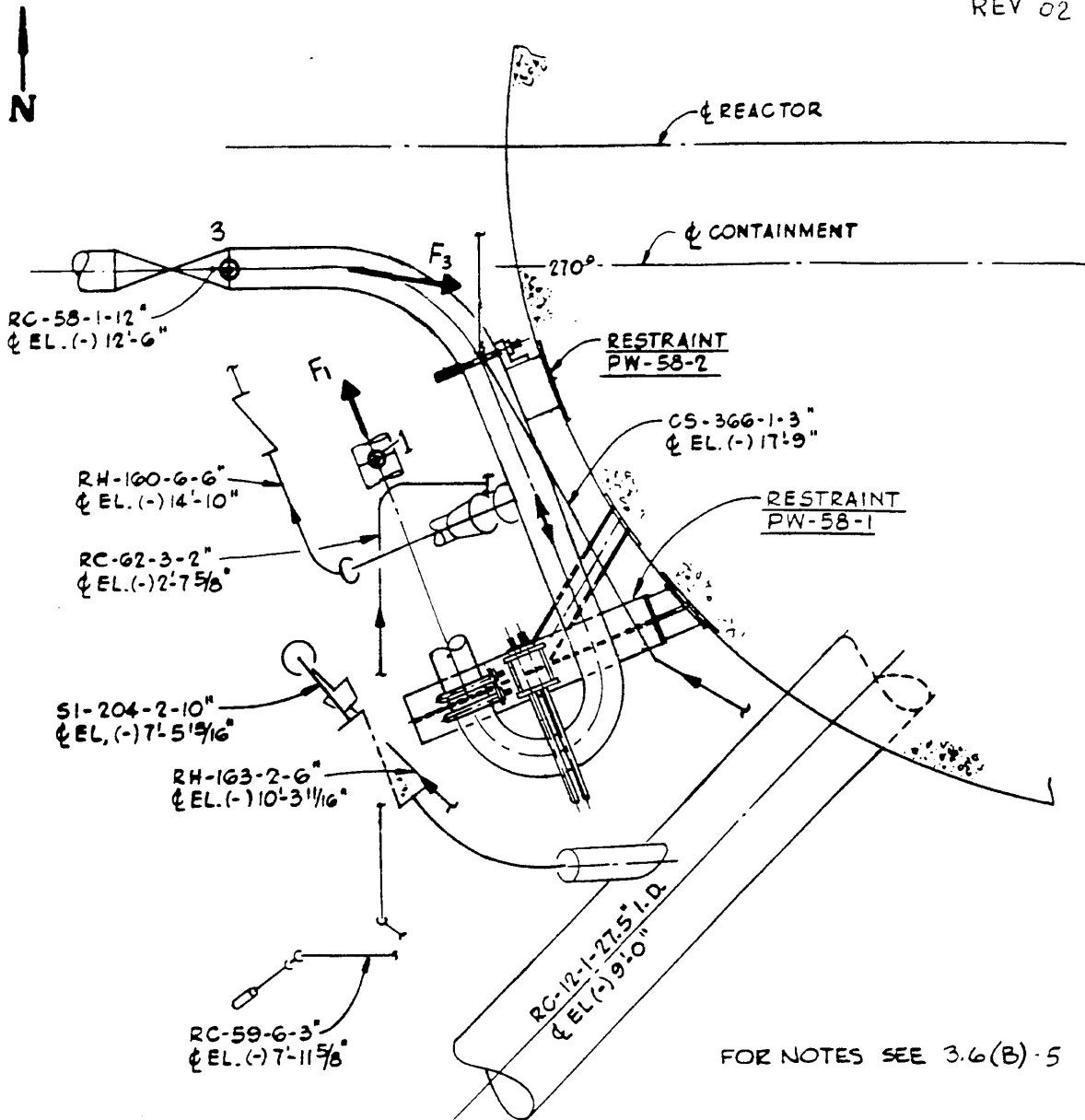


SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	Containment Penetration (Cold High Energy Lines)	
		Figure 3.6(B)-4





REV 02

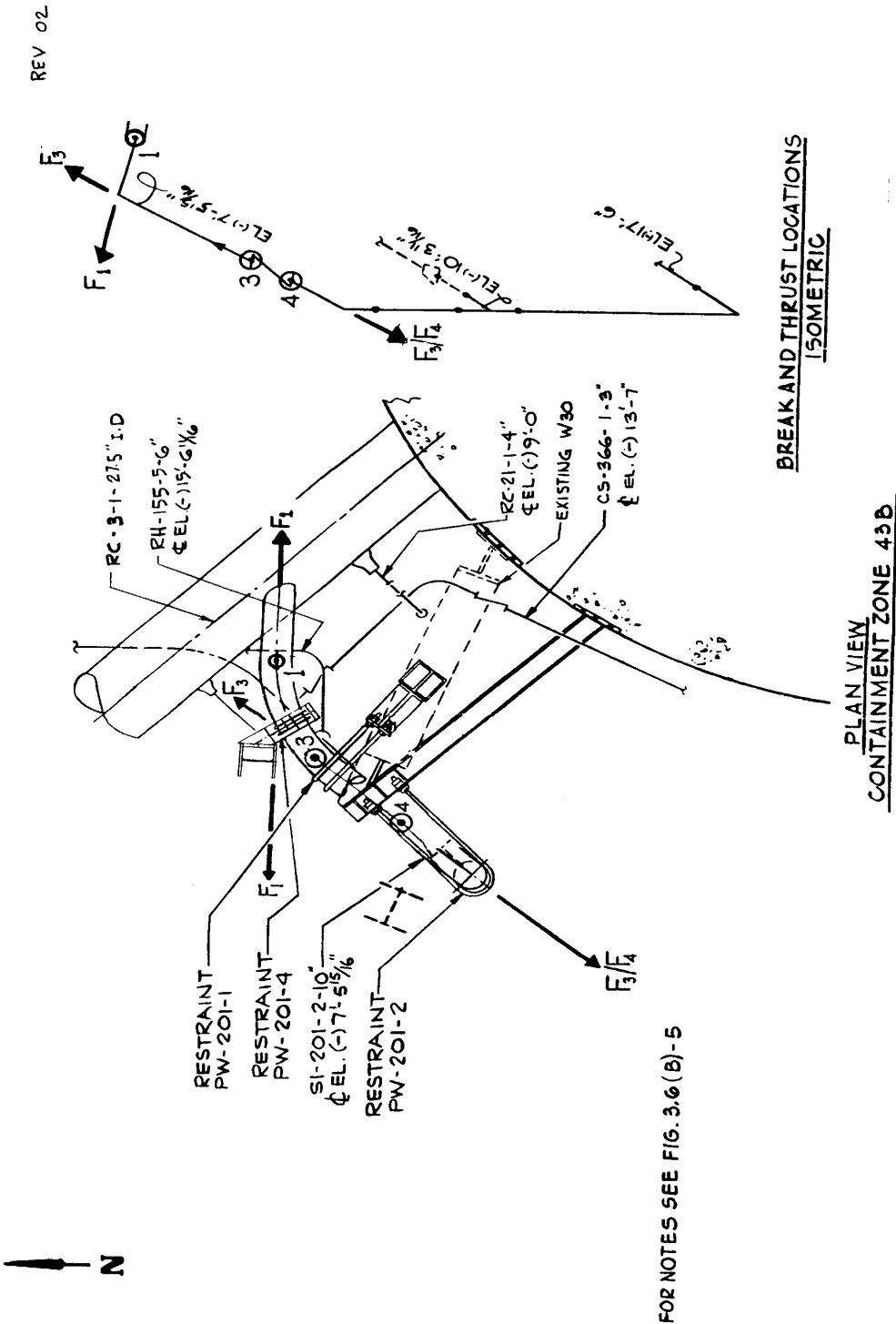


PLAN VIEW
CONTAINMENT ZONE 46B

SEABROOK STATION
UPDATED FINAL SAFETY
ANALYSIS REPORT

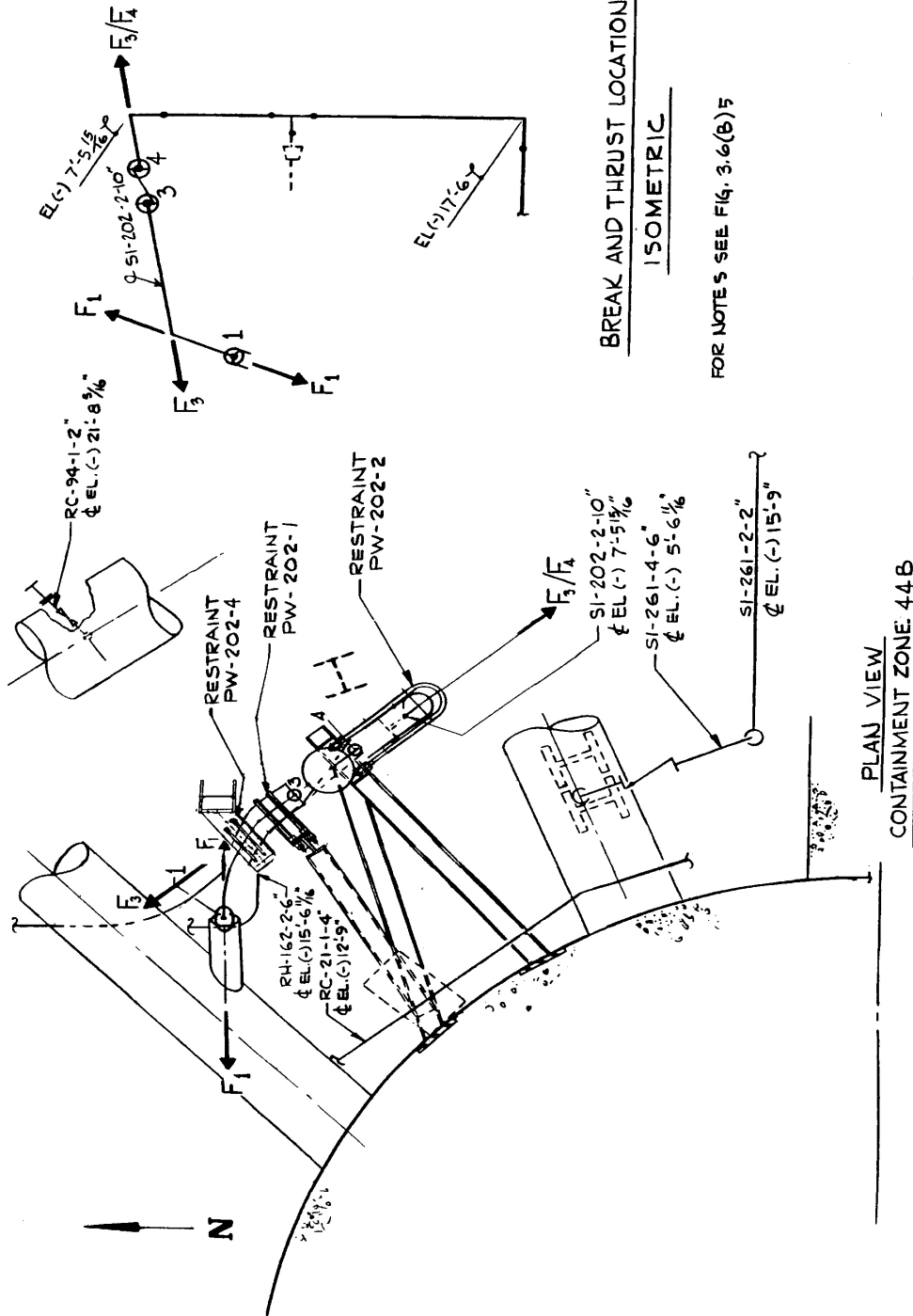
RC-58 Pipe Whip Restraint Protecting RC, RH, and SI Lines
and Valves - Containment Zone 46B

Figure 3.6(B)-8



SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	Safety Injection Accumulator Line Pipe Whip Restraint Protecting CS, RH and RC Lines and Valves - Containment Zone 43B	
	Figure	3.6(B)-9

REV 02



BREAK AND THRUST LOCATIONS

ISOMETRIC

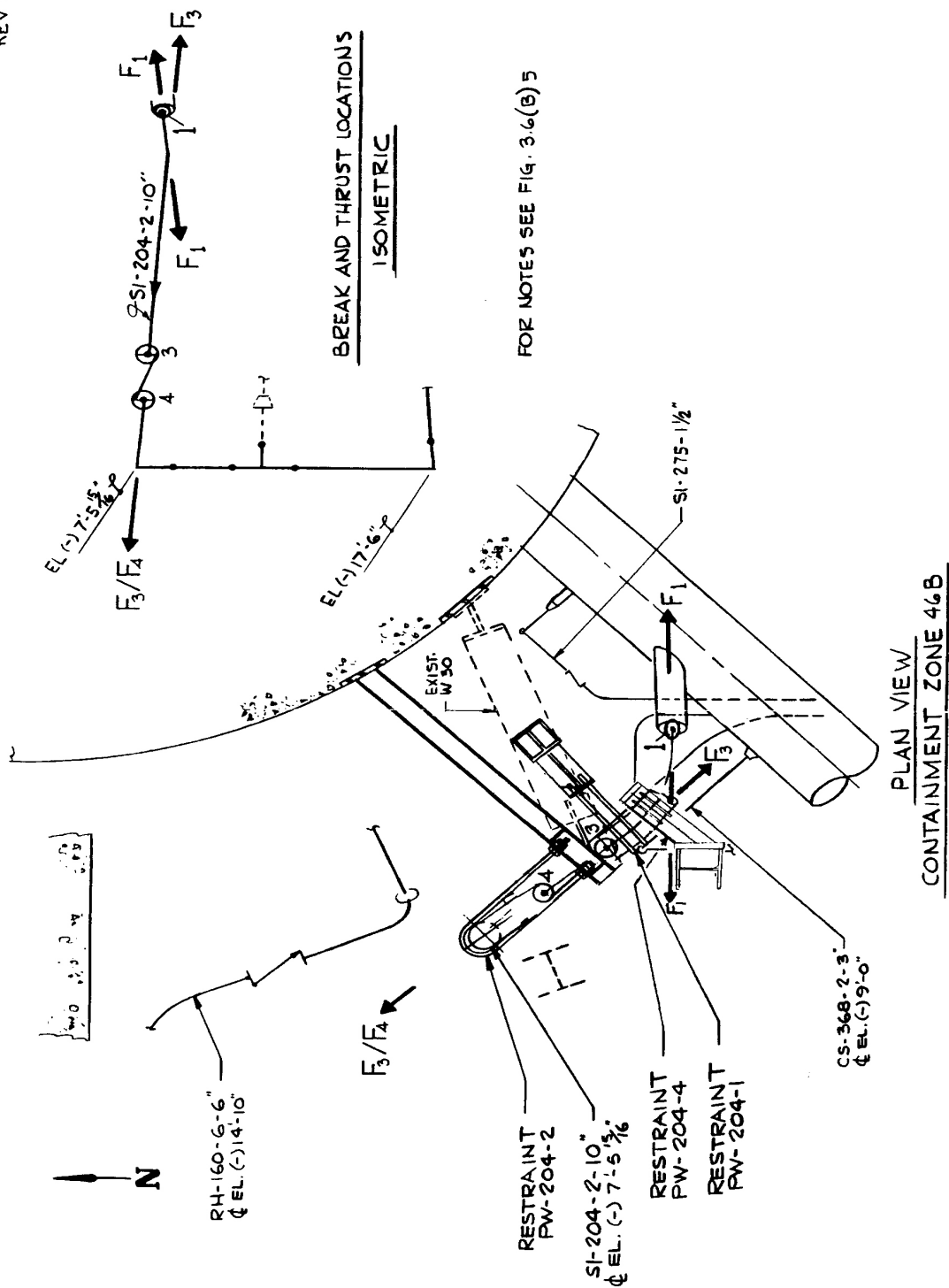
FOR NOTES SEE FIG. 3.6(B) 5

SEABROOK STATION
UPDATED FINAL SAFETY
ANALYSIS REPORT

SI Line Pipe Whip Restraints Protecting RC, RH, and SI
Lines and Valves - Containment Zone 44B

Figure 3.6(B)-10

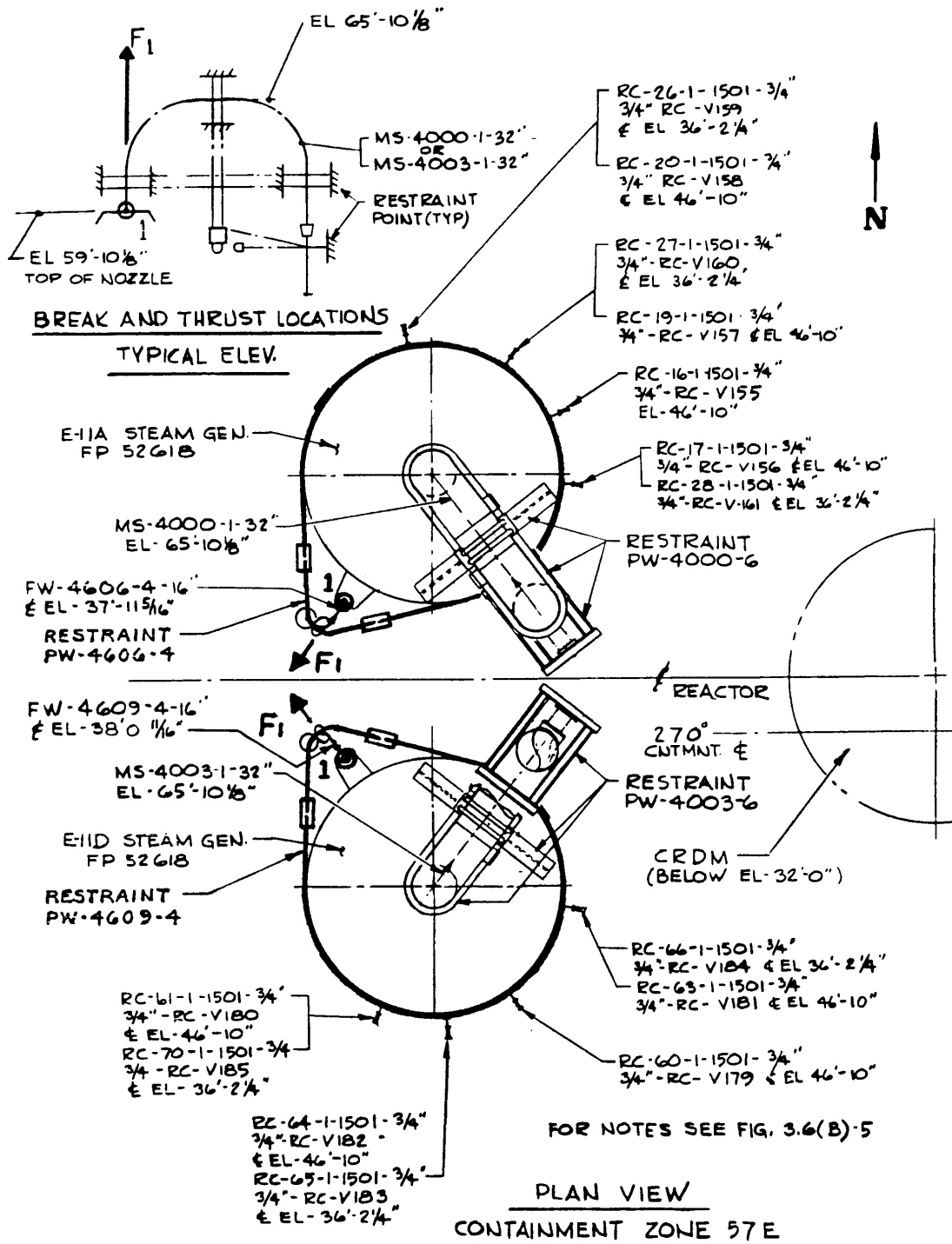
REV 02

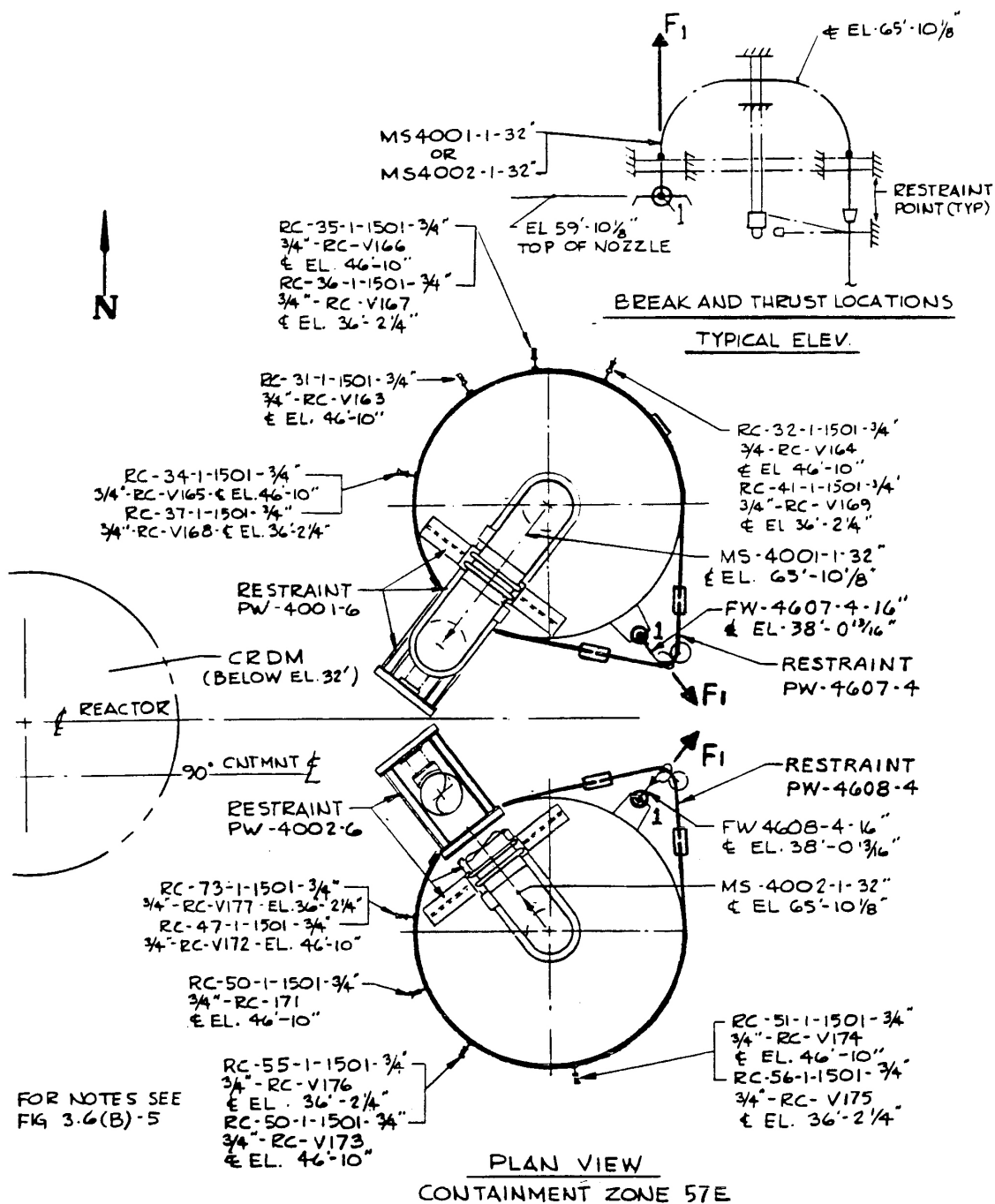


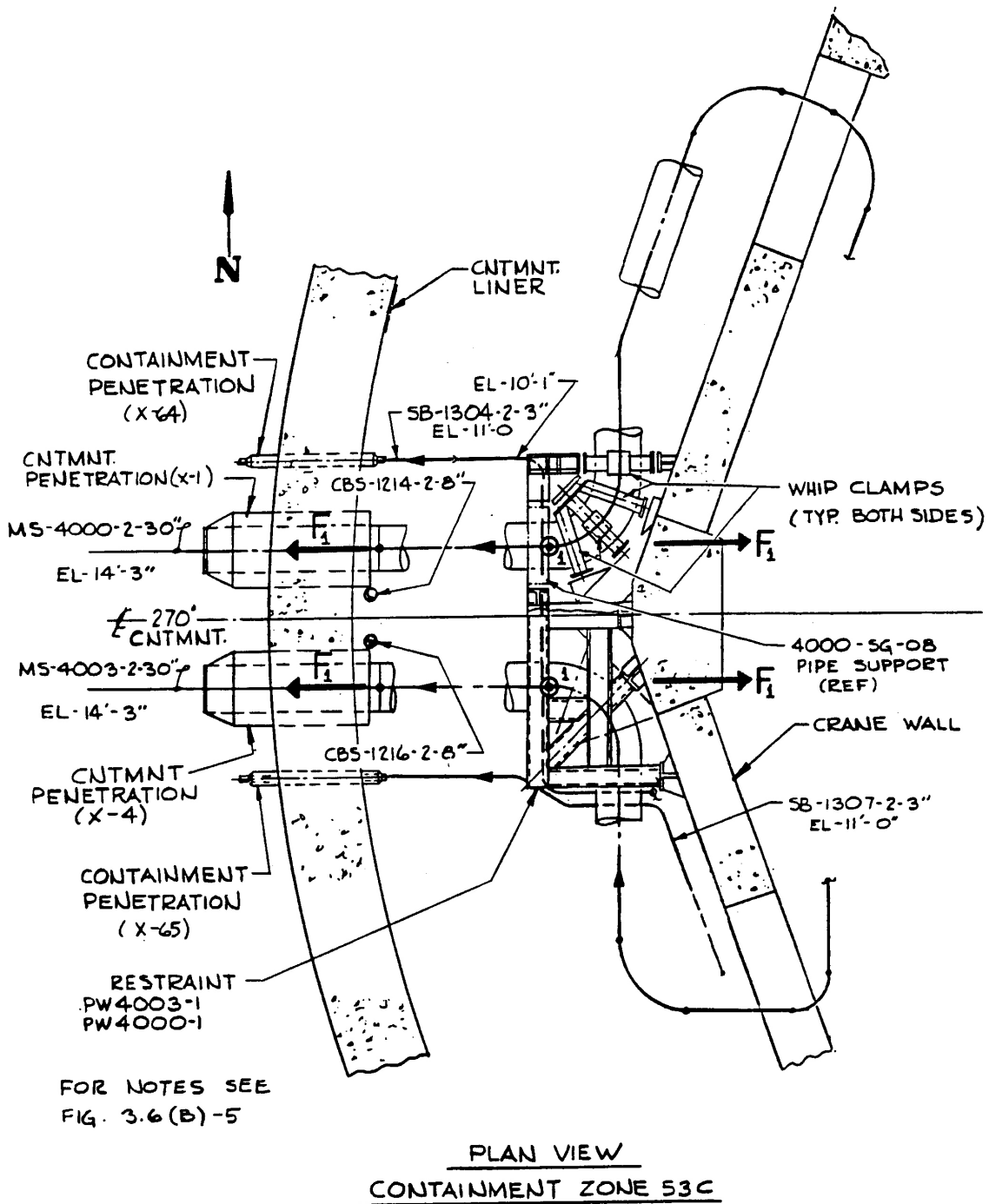
SEABROOK STATION
UPDATED FINAL SAFETY
ANALYSIS REPORT

SI Pipe Whip Restraint Protecting CS, RC, RH and SI Lines
and Valves - Containment Zone 46B

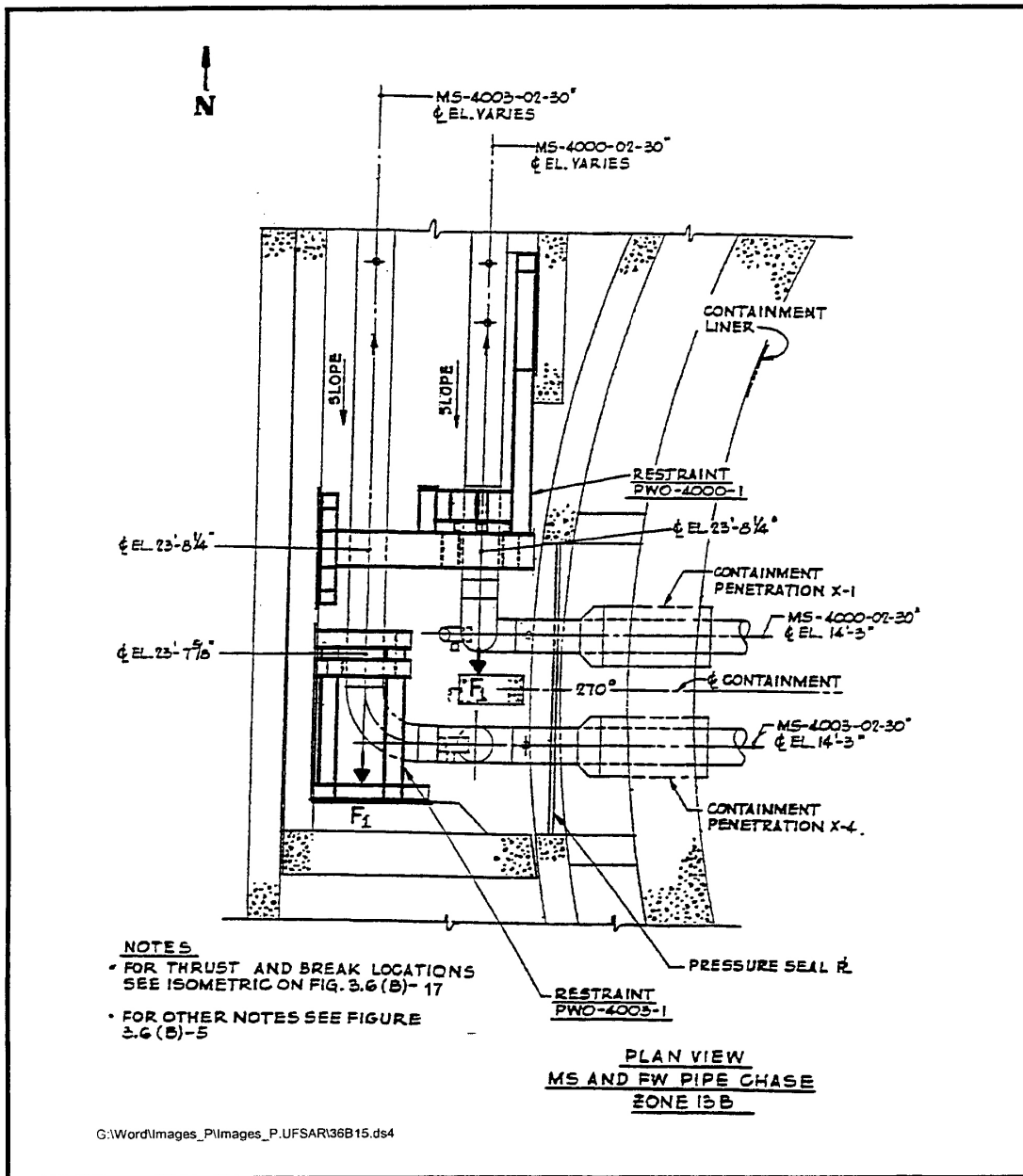
Figure 3.6(B)-12

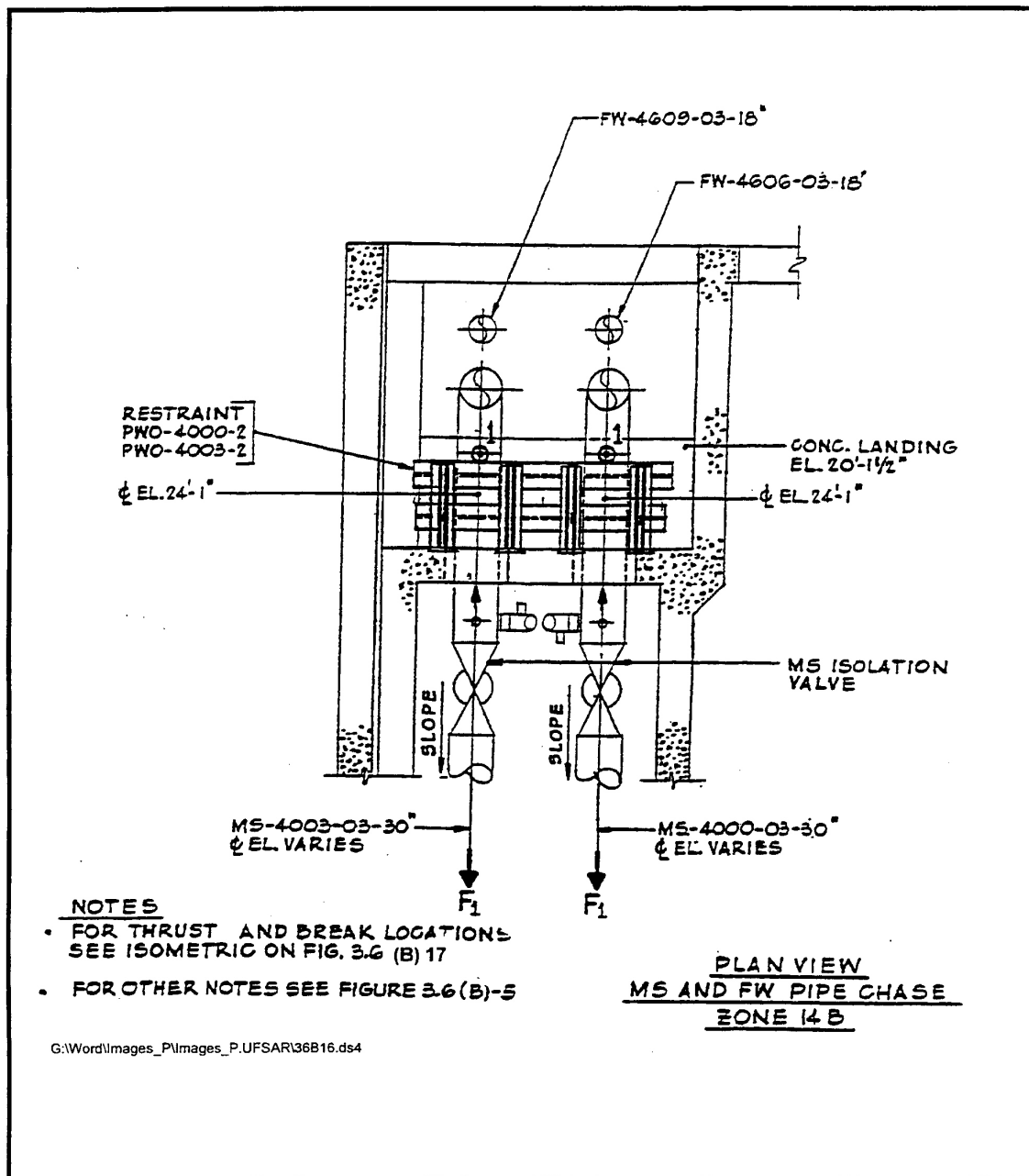


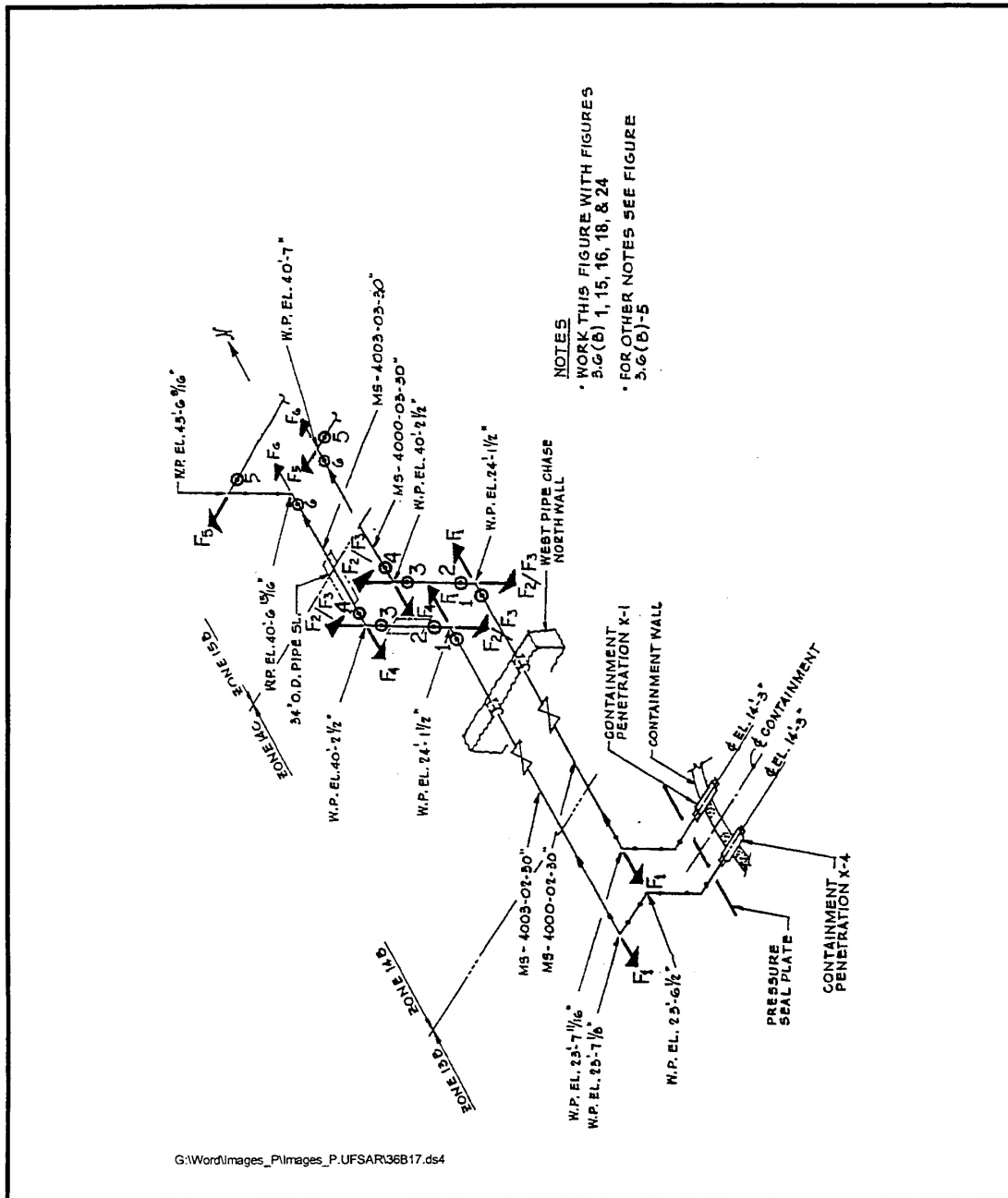




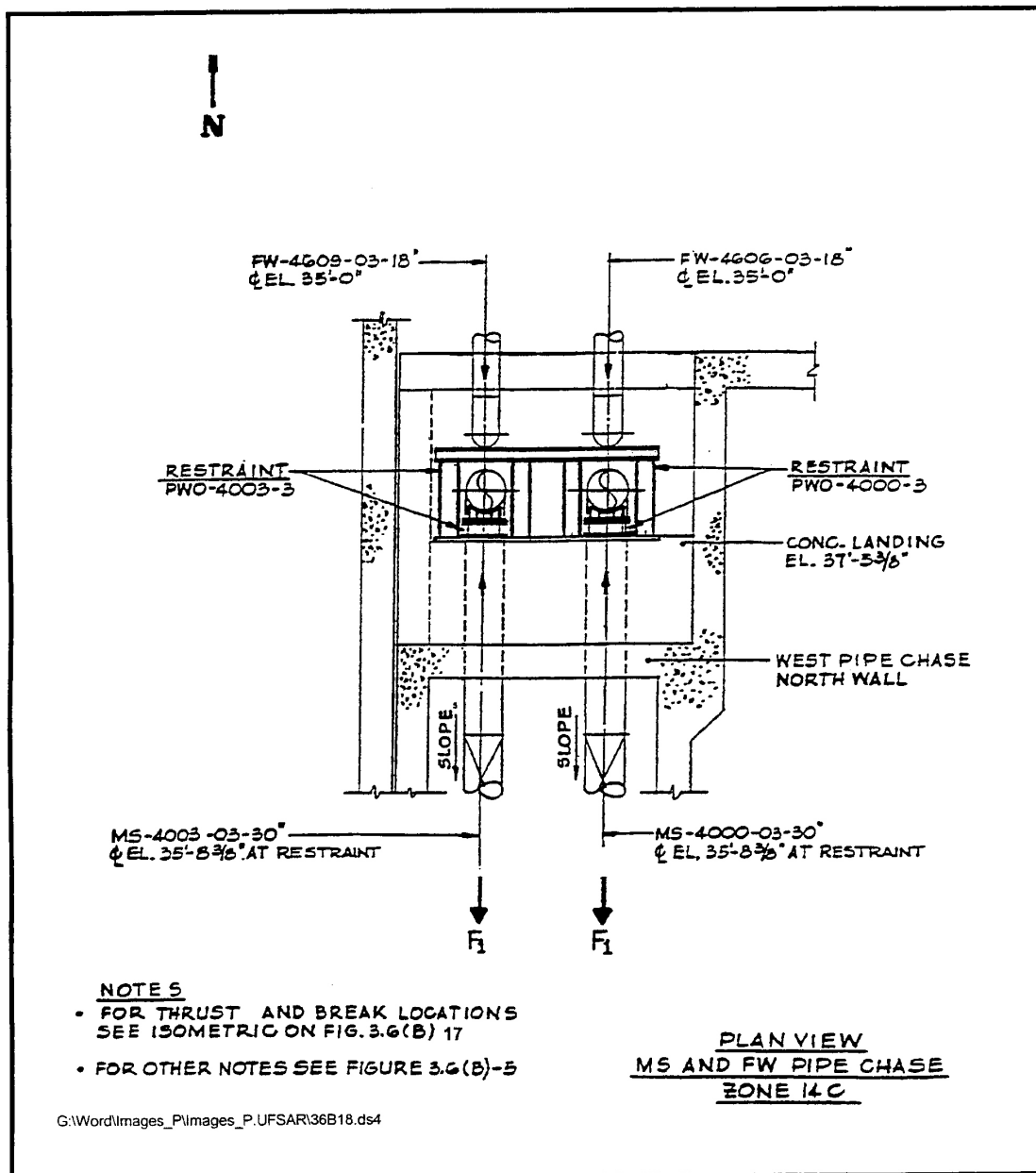
SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	Main Steam Pipe Whip Restraints Protecting SB, CBS Lines, Valves and Containment Liner/Penetrations - Containment Zone 53C
	Figure 3.6(B)-14

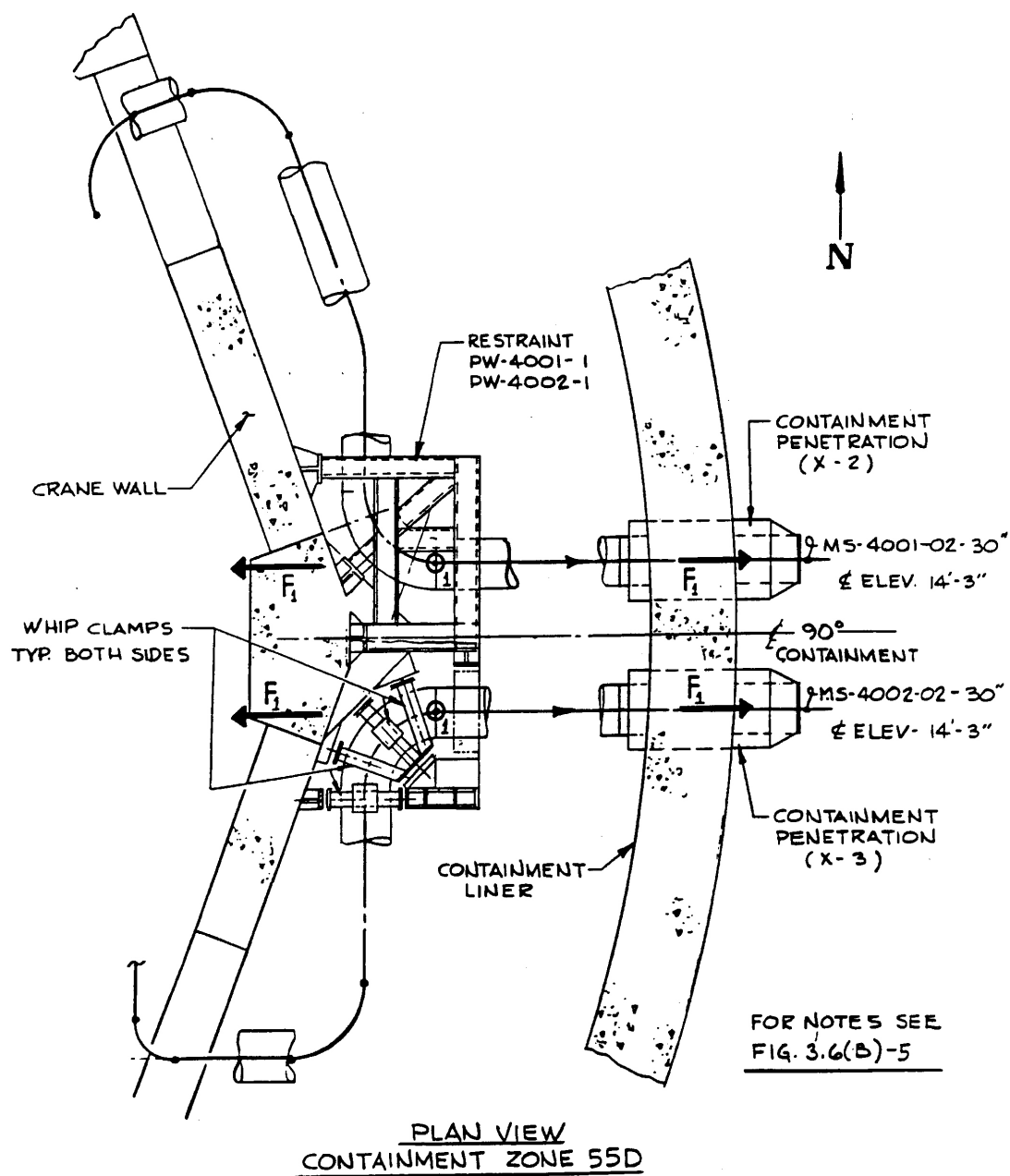




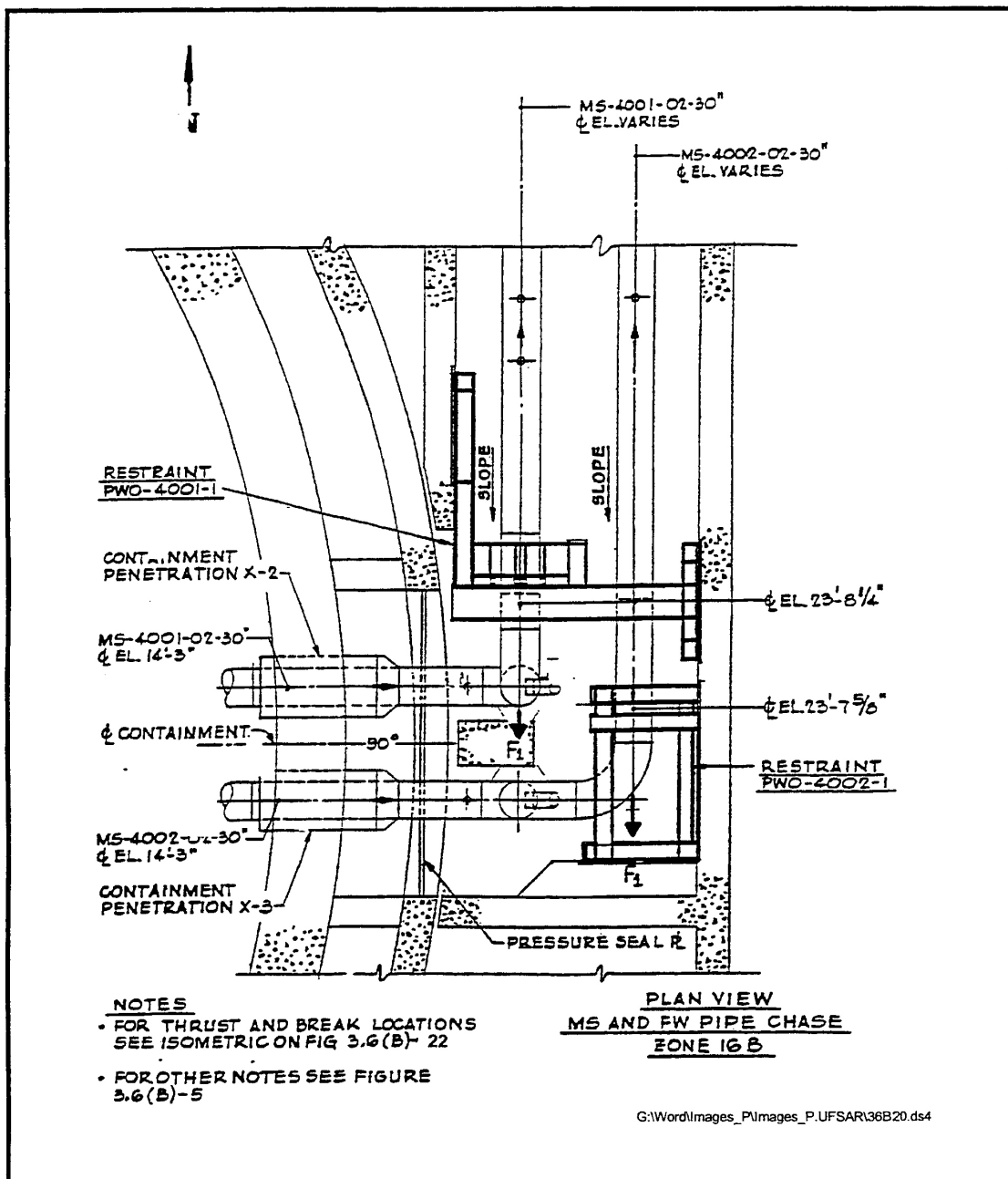


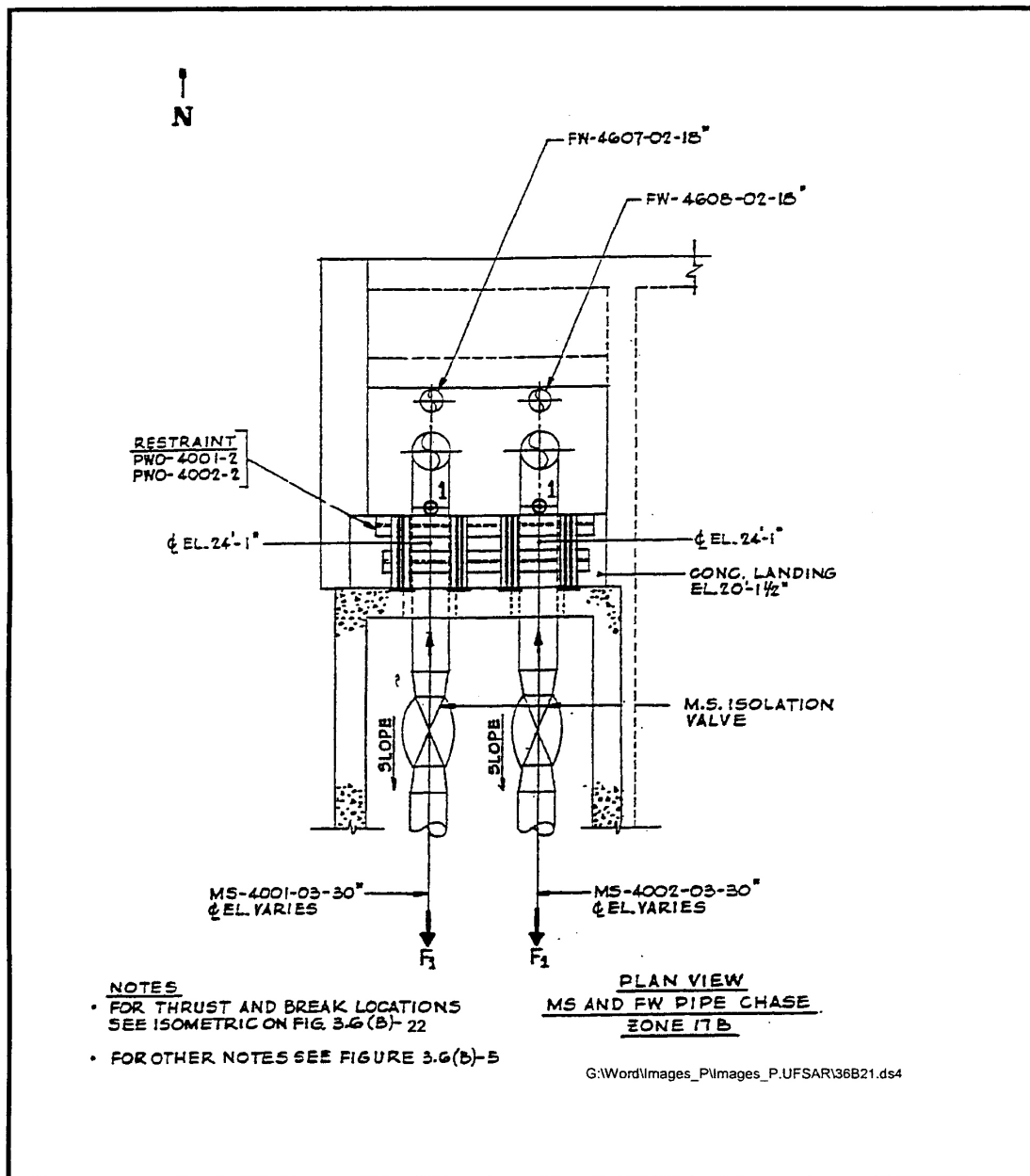
SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	Break and Thrust Locations Isometric for MS Pipes in West Pipe Chase	
		Figure 3.6(B)-17

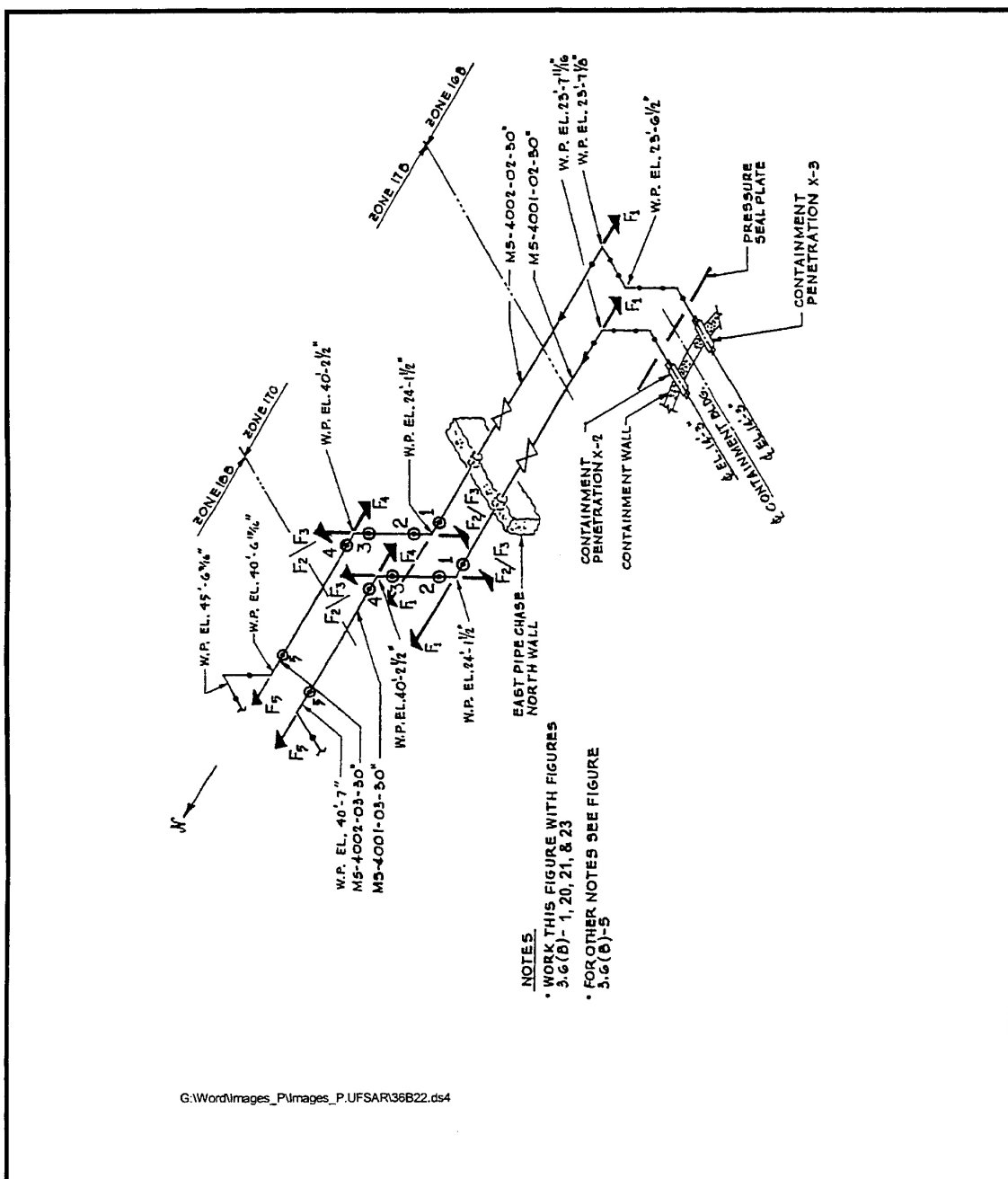




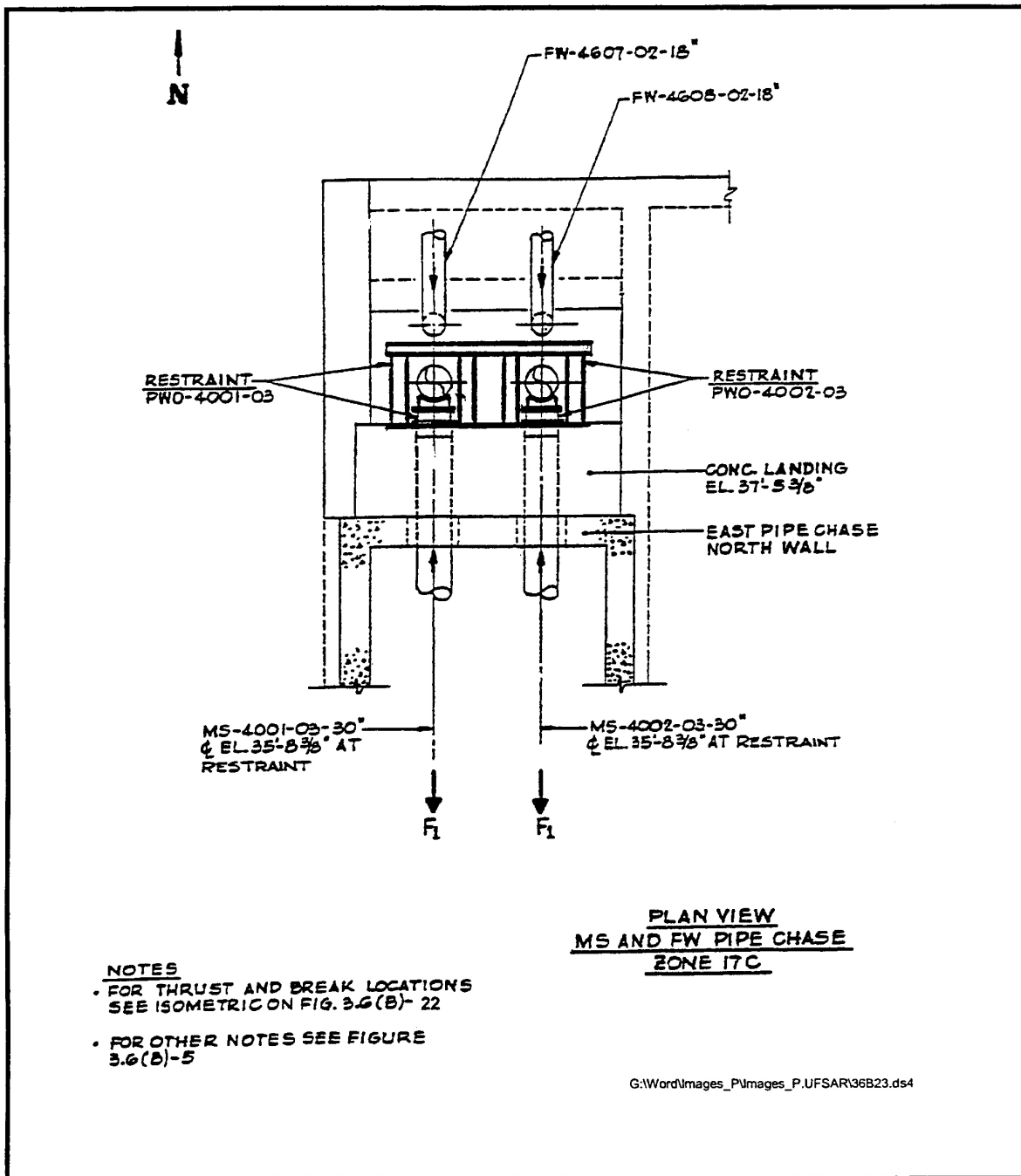
SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	Main Steam Pipe Whip Restraint Protecting Containment Liner and Penetrations - Containment Zone 55D	
		Figure 3.6(B)-19



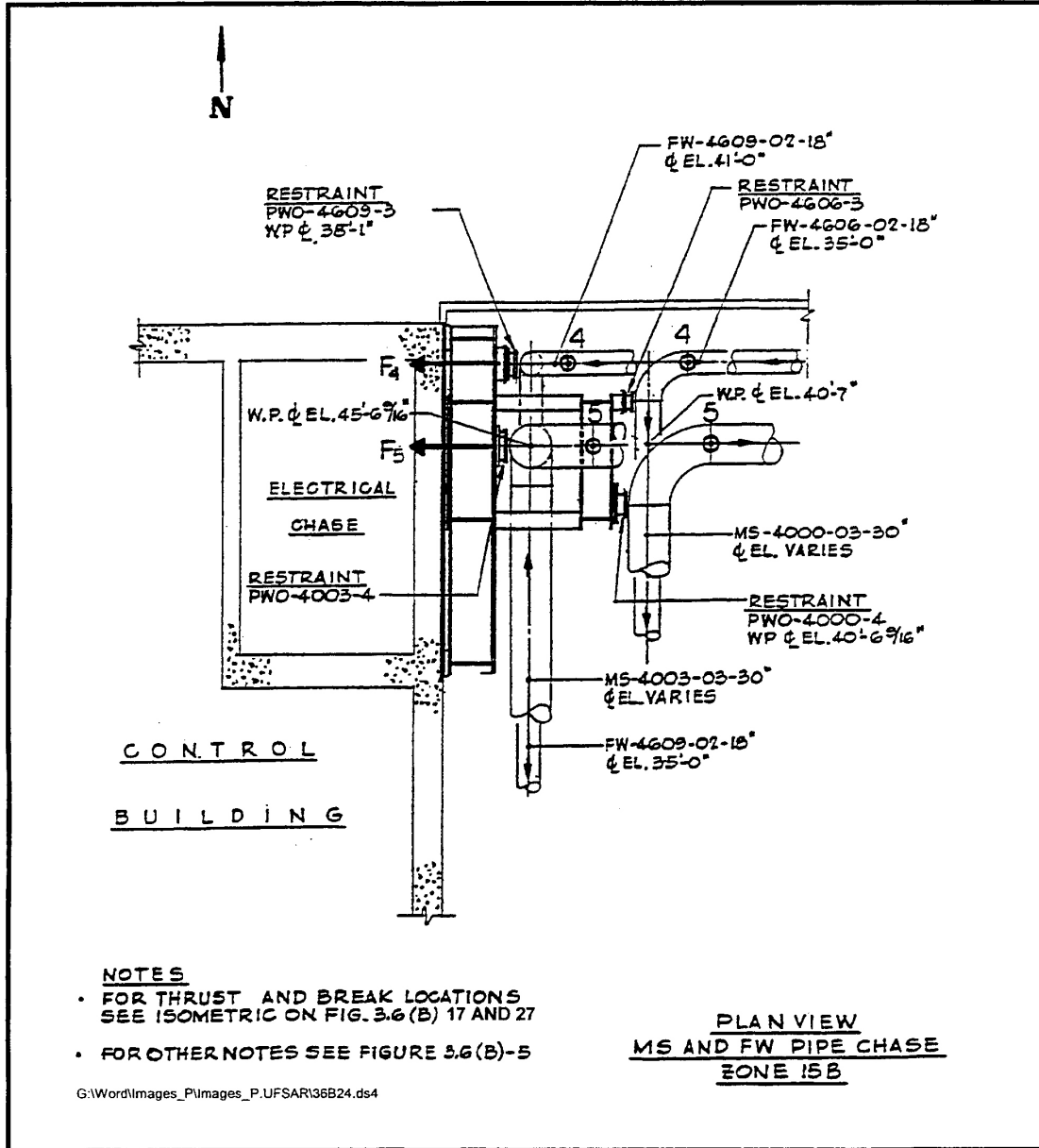


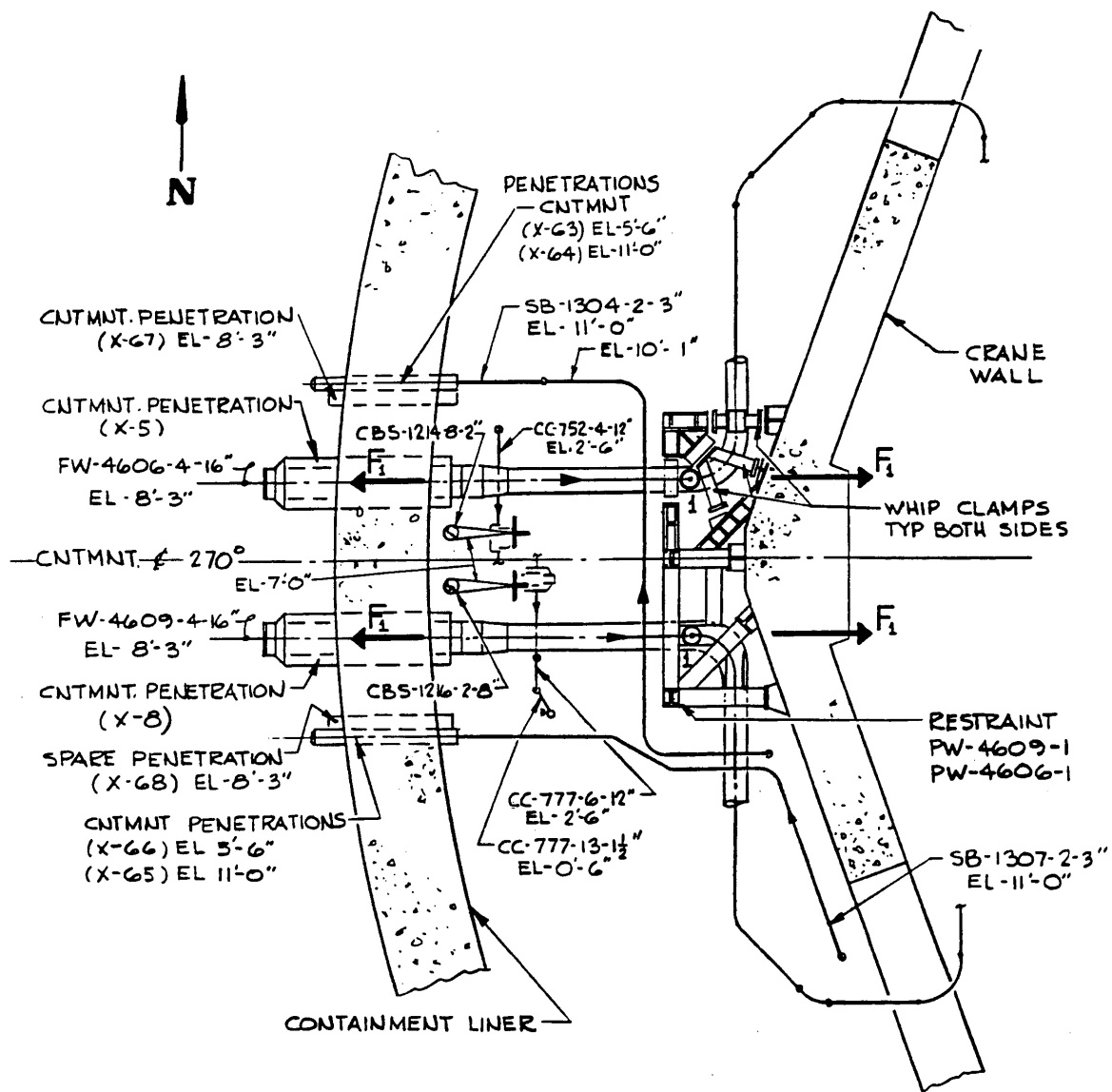


SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	Break and Thrust Locations Isometric for MS Pipes in East Pipe Chase	
		Figure 3.6(B)-22



SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	Main Steam Pipe Whip Restraints Protecting West Pipe Chase North Wall - MS and FW Pipe Chase Zone 17C	
		Figure 3.6(B)-23





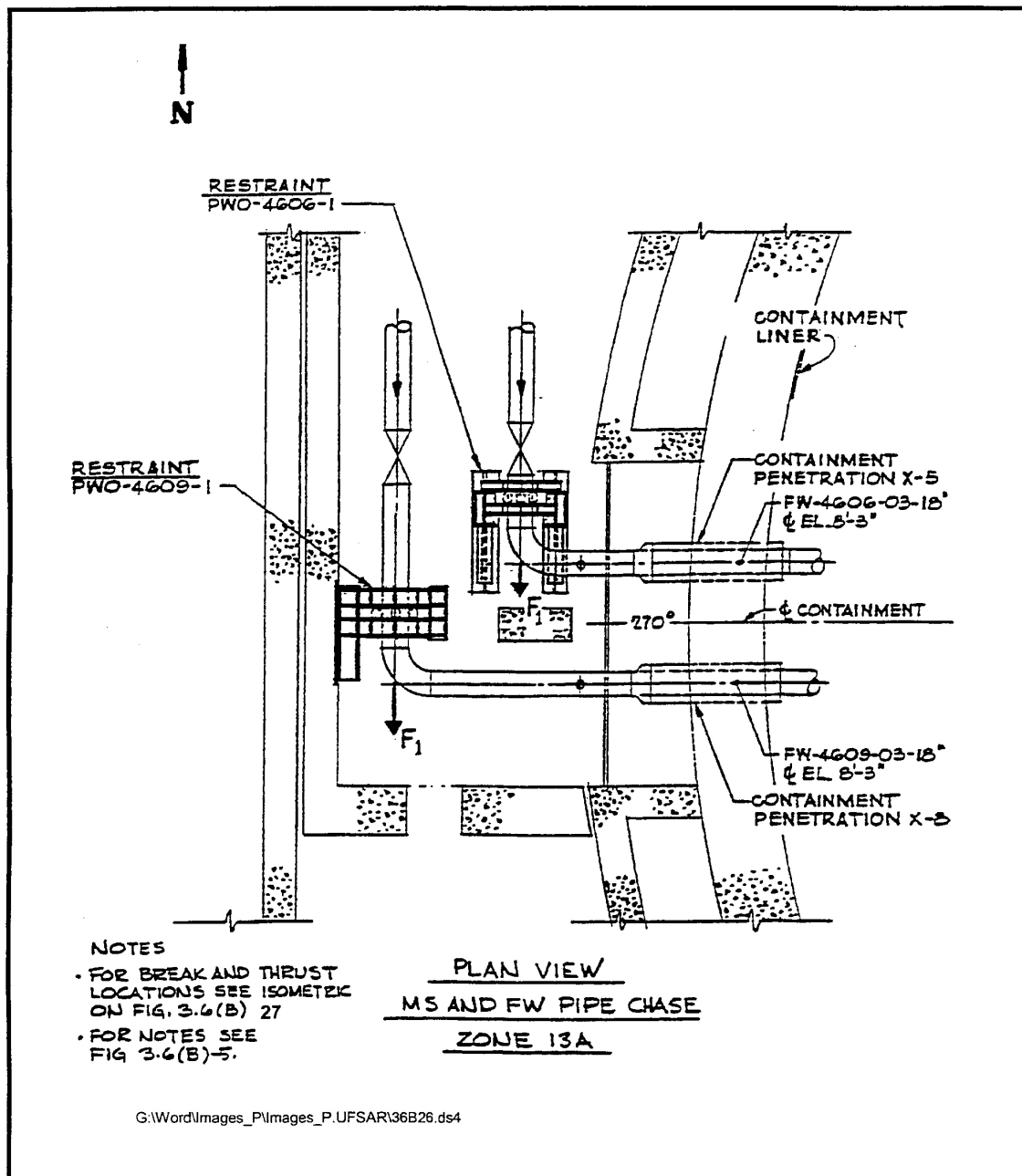
FOR NOTES SEE FIG. 3.6(B)-5

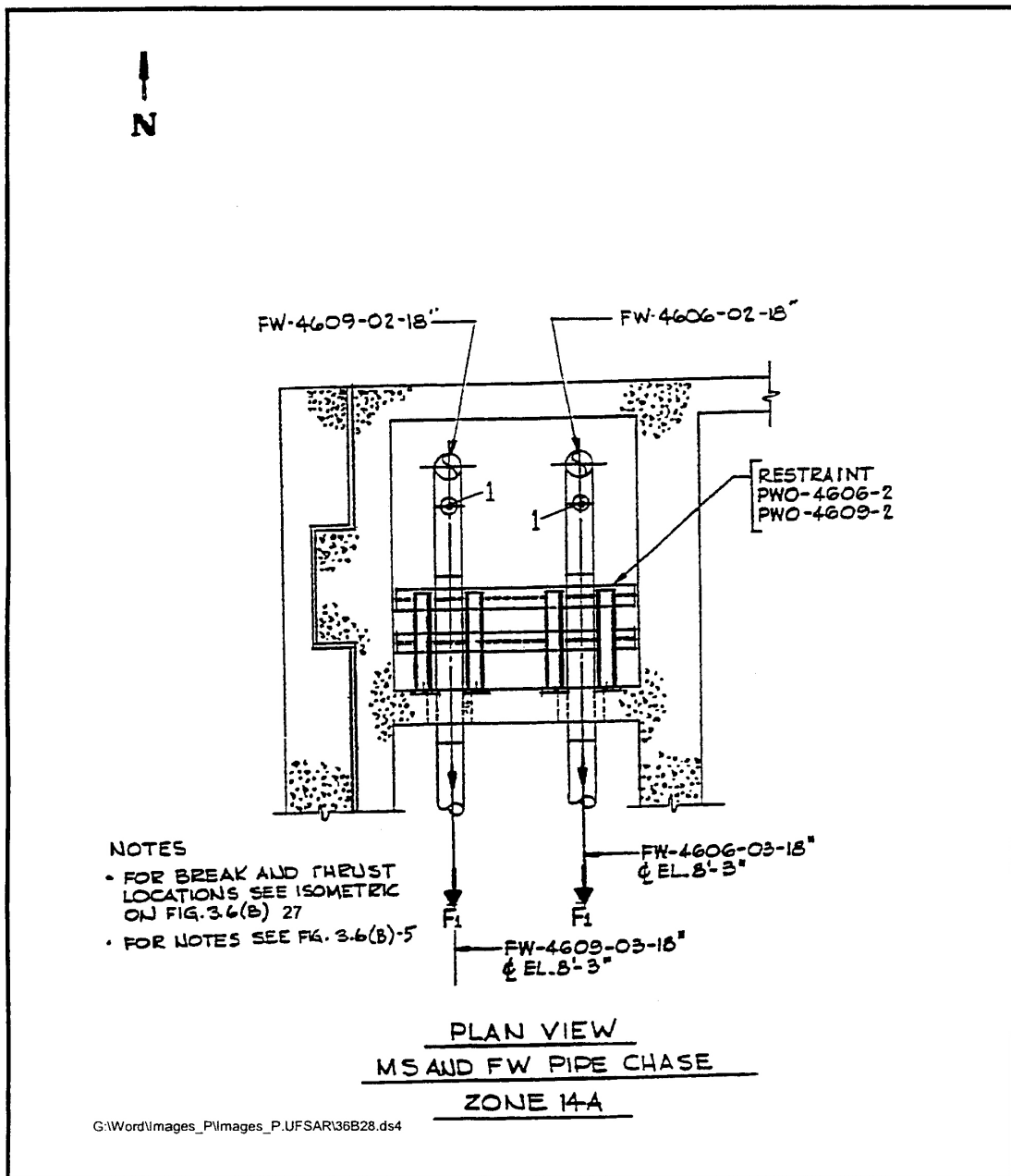
PLAN VIEW
CONTAINMENT ZONE 53C

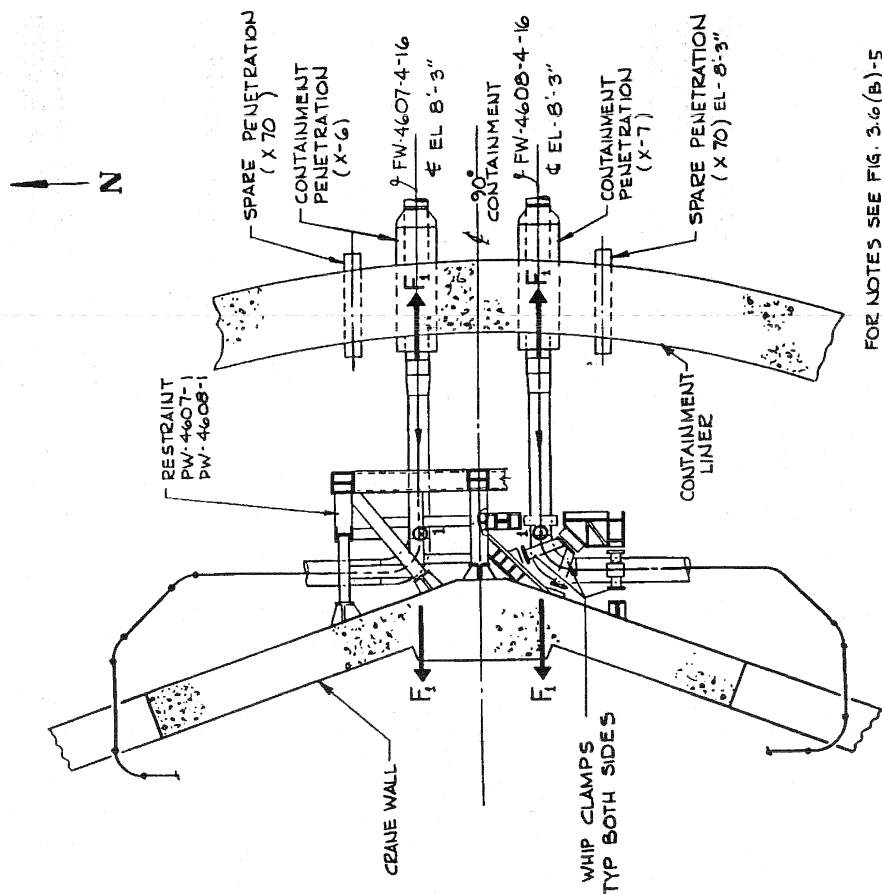
SEABROOK STATION
UPDATED FINAL SAFETY
ANALYSIS REPORT

Feedwater Pipe Whip Restraint Protecting the Containment
Liner and Penetrations and CC & SB Lines and Valves -
Containment Zone 53C

Figure 3.6(B)-25

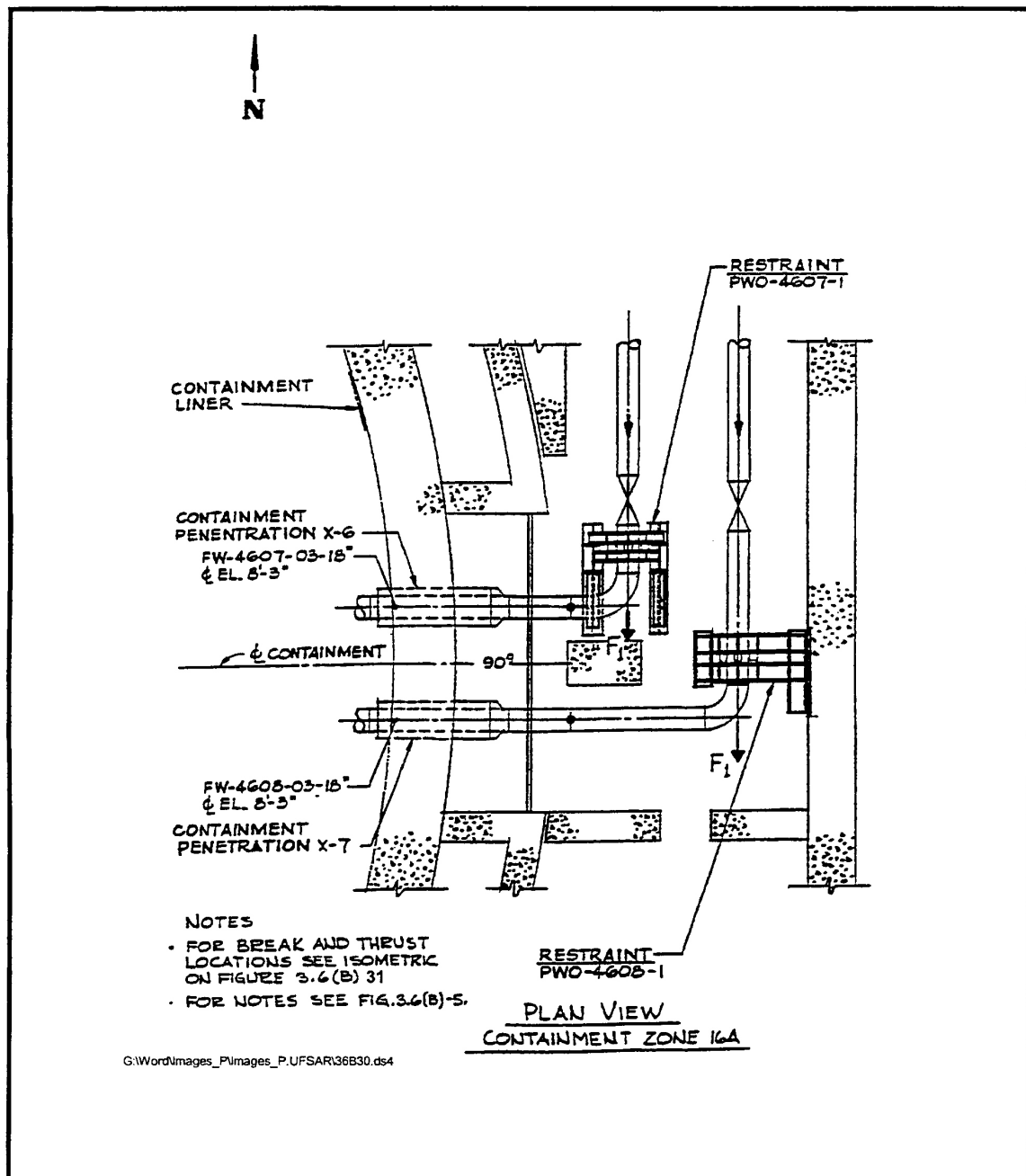


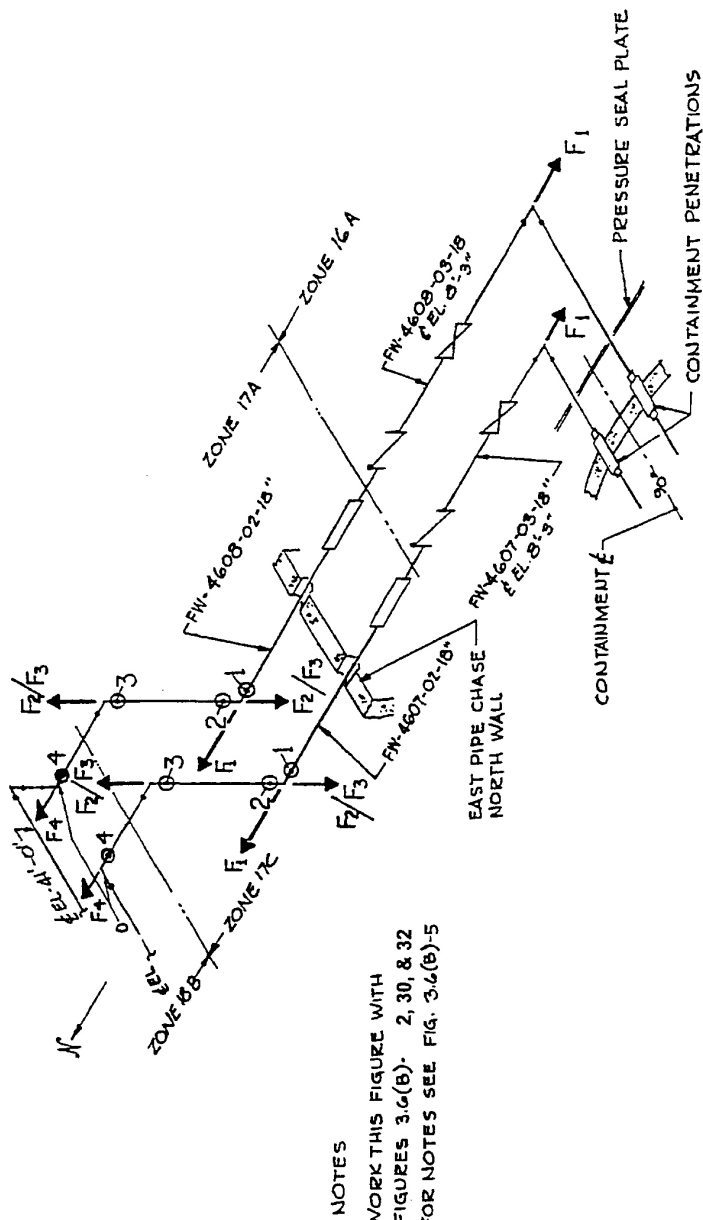




FOR NOTES SEE FIG. 3.6(B)-5

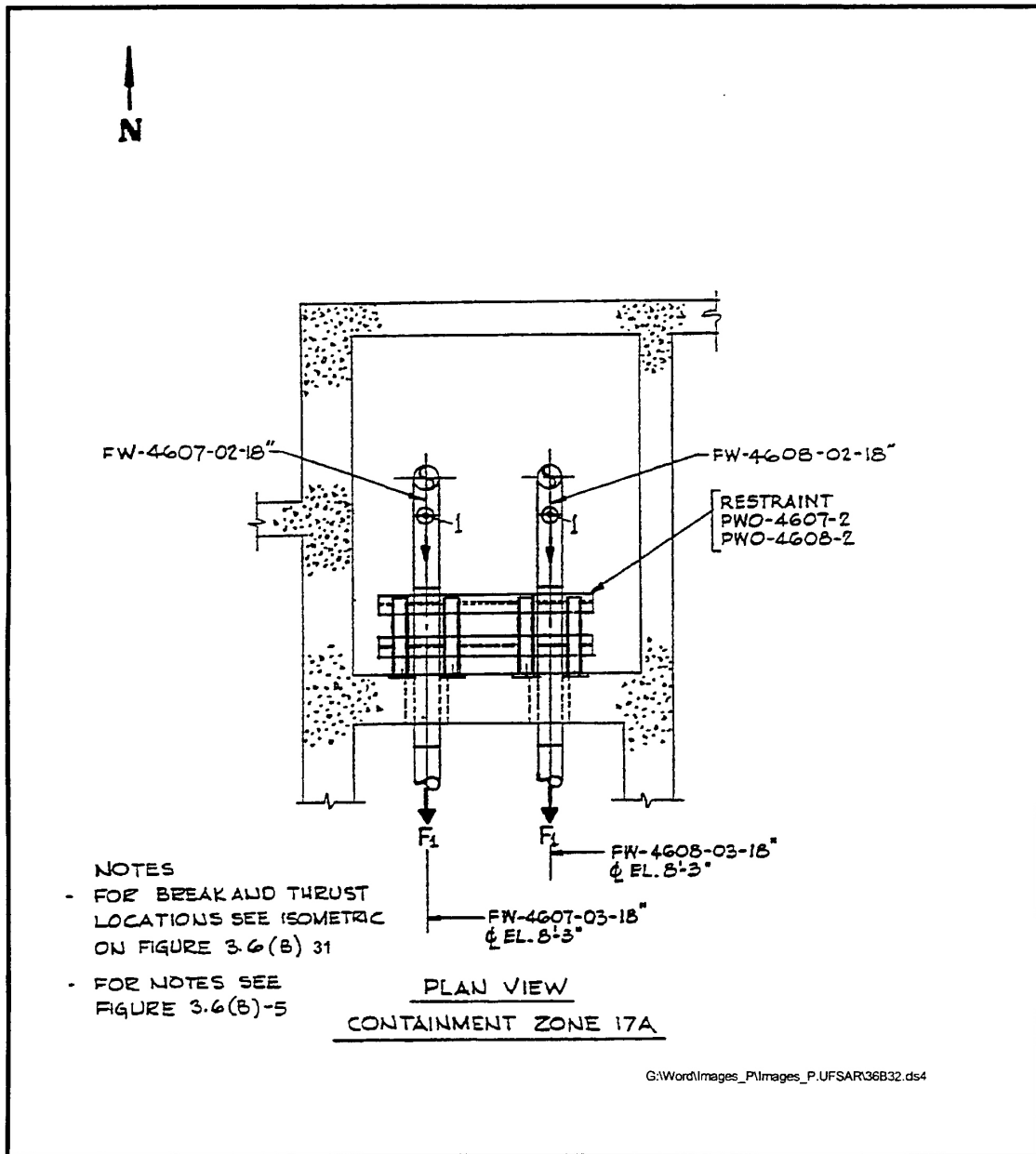
PLAN VIEW
CONTAINMENT ZONE 55C



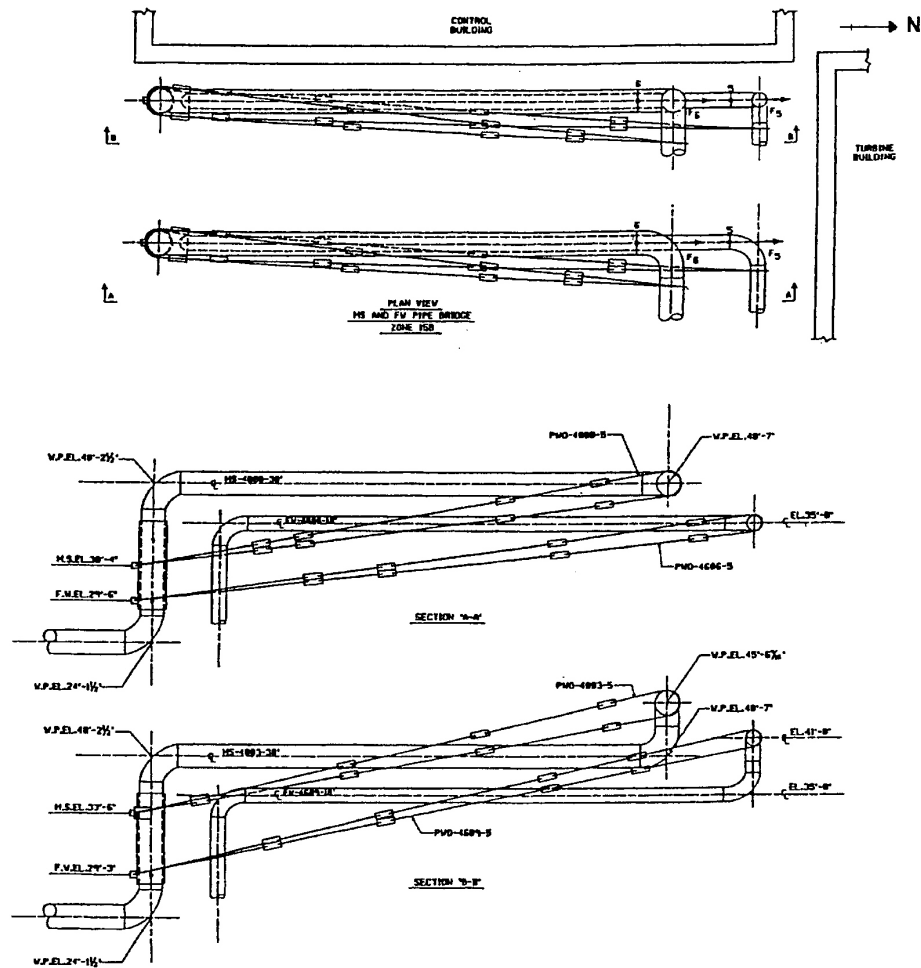


- NOTES
- WORK THIS FIGURE WITH FIGURES 3.6(B)-2, 30, & 32
 - FOR NOTES SEE FIG. 3.6(B)-5

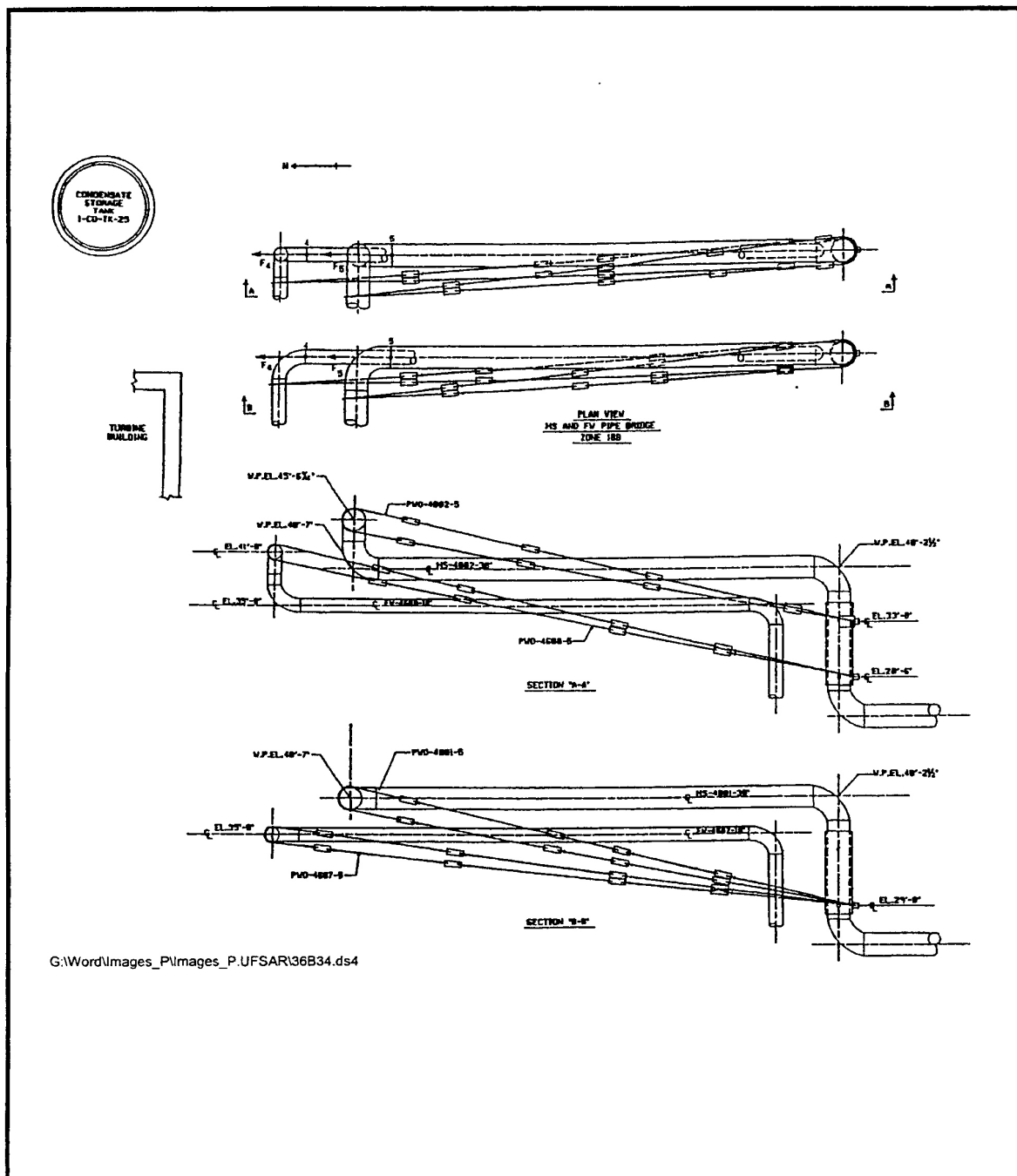
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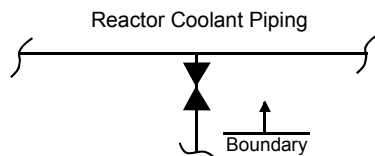
SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	Feedwater Pipe Whip Restraints Protecting Containment Liner and Penetrations - Containment Zone 17A	
		Figure 3.6(B)-32



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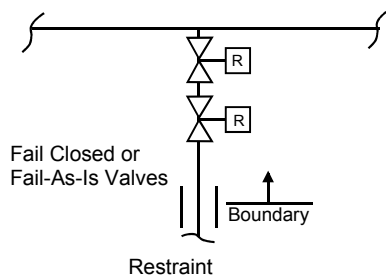


CASE I Outgoing Lines With Normally Closed Valve



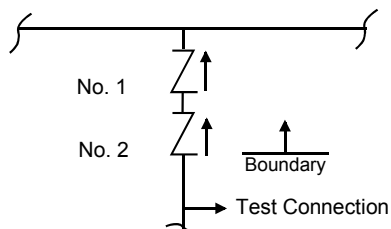
Note: Pressurizer Safety Valves Are Included Under This Case.

CASE II Outgoing Lines With Normally Open Valve

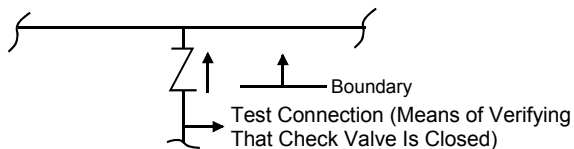


Note: The Reactor Coolant Pump No. 1 Seal Is Assumed To Be Equivalent To First Valve

CASE III Incoming Lines Normally With Flow



CASE IV Incoming Lines Normally Without Flow

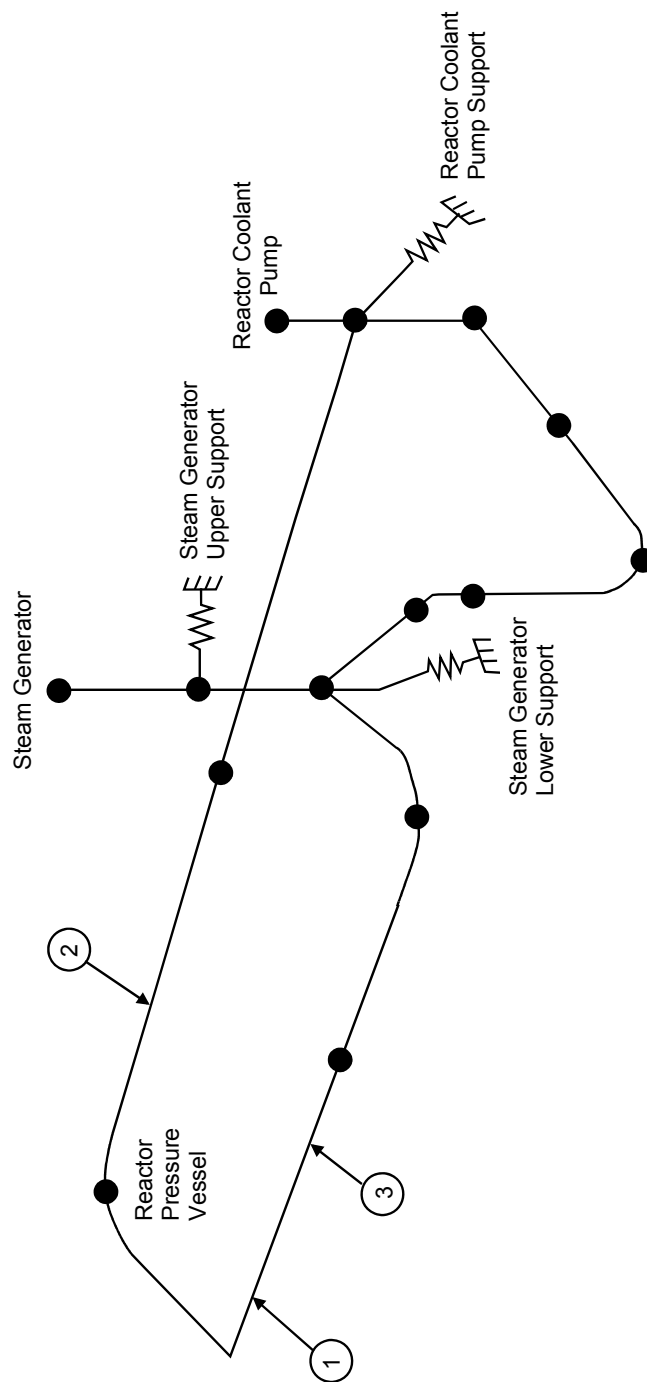


CASE V

All Instrumentation Tubing and Instruments Connected Directly to the Reactor Coolant System is Considered as a Boundary. However, a Break Within this Boundary Results in a Relatively Small Flow Which Can Normally be Made Up With the Charging System.

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SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	Loss of Reactor Coolant Accident Boundary Limits	
		Figure 3.6(N)-1



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SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	Reactor Coolant System, Pipe Break and Whip Restraint Locations	
		Figure 3.6(N)-2

See 805067

SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	Composite Piping Zones (Nuclear) Key Plan	
		Figure 3A-1

See 202117

SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	Turbine Building Zone Key Plan Piping	
		Figure 3A-2

See 202118

SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	Auxiliary Building Zone Key Plan Piping	
		Figure 3A-3