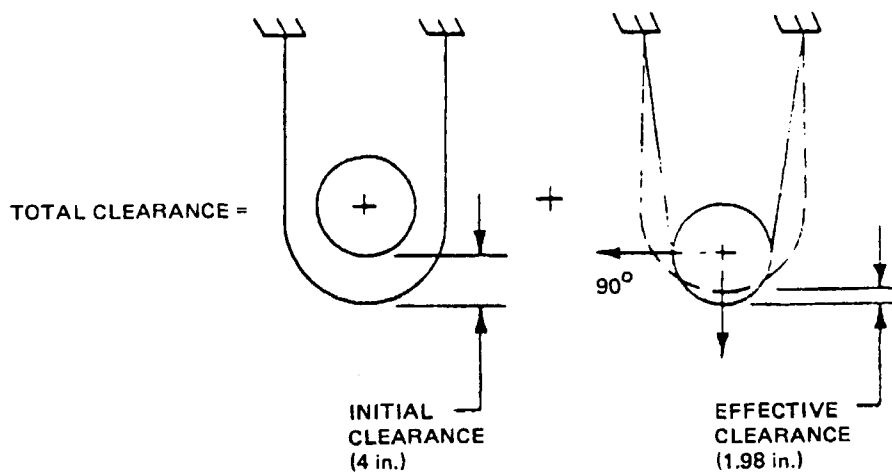
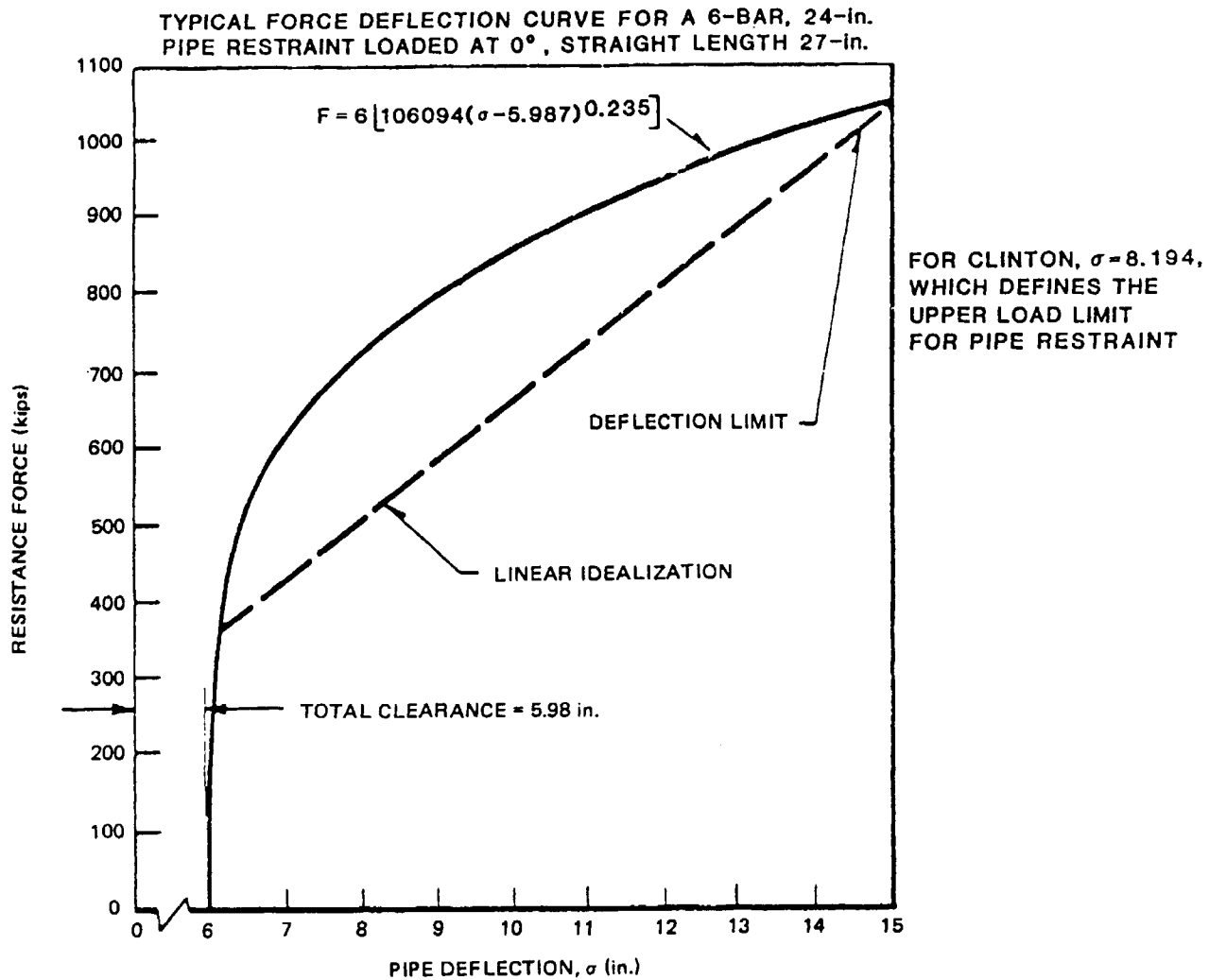


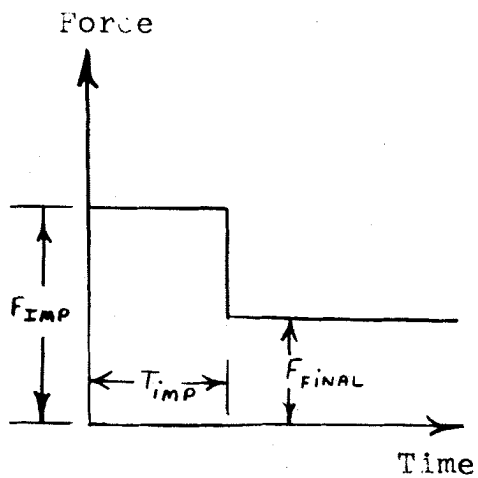


Revision 9
January 2001

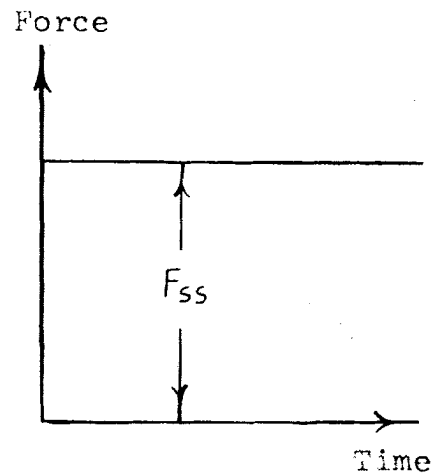


CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.6-2
TYPICAL RESTRAINT
FORCE-DEFLECTION CURVE



$$F_{SS} < F_{IMP}$$



$$F_{SS} > F_{IMP}$$

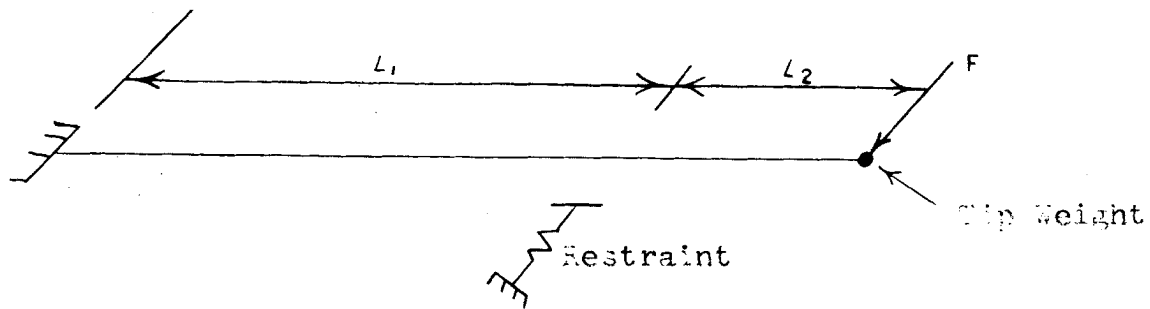
PIPE THRUST
RESULTING FROM A CIRCUMFERENTIAL BREAK

CLINTON POWER STATION
 UPDATED SAFETY ANALYSIS REPORT

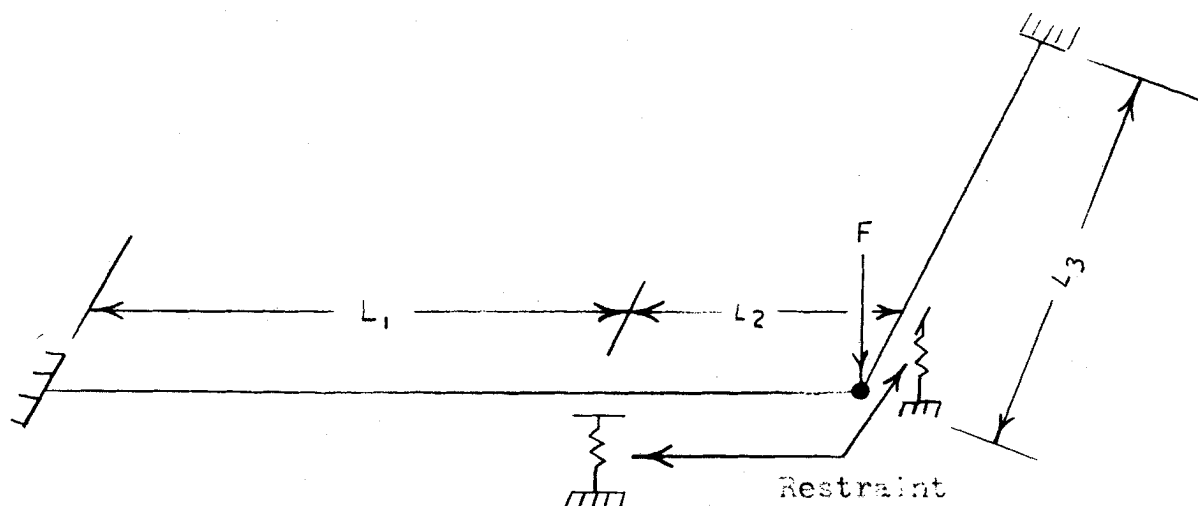
FIGURE 3.6-3

PIPE THRUST

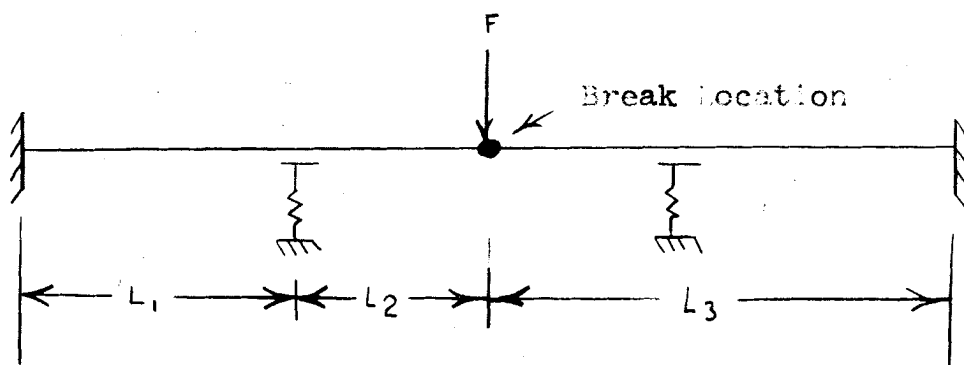
FIGURE 3.6-4
HAS BEEN DELETED



Circumferential Break at Elbow



Longitudinal Break at an Elbow



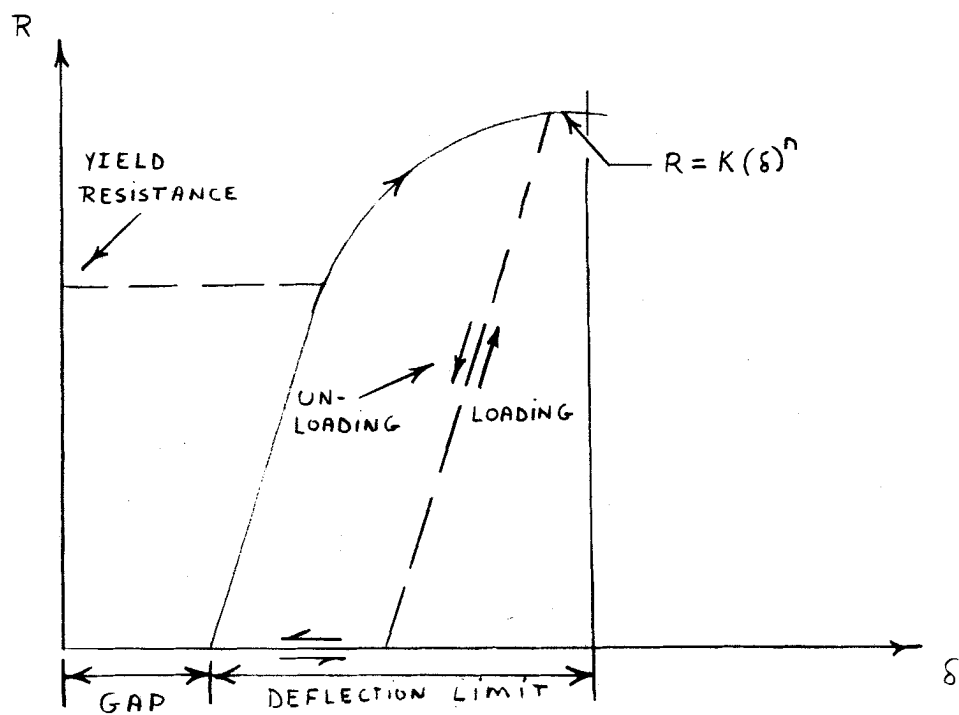
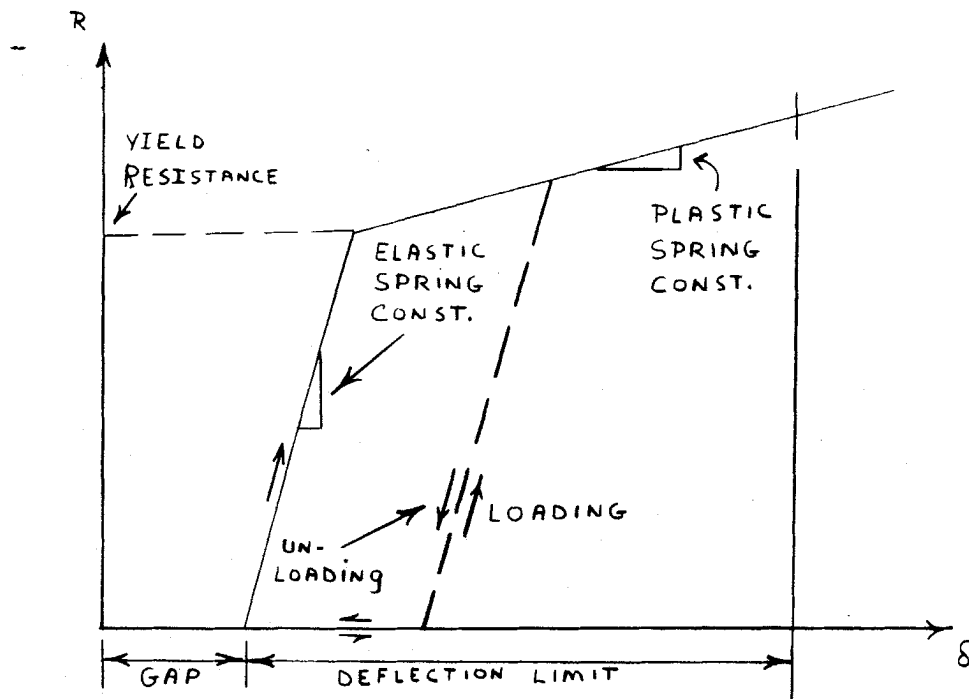
Longitudinal Break at an Interior Point

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.6-5

PIPE WHIP MODELS - FINITE
DIFFERENCE METHOD

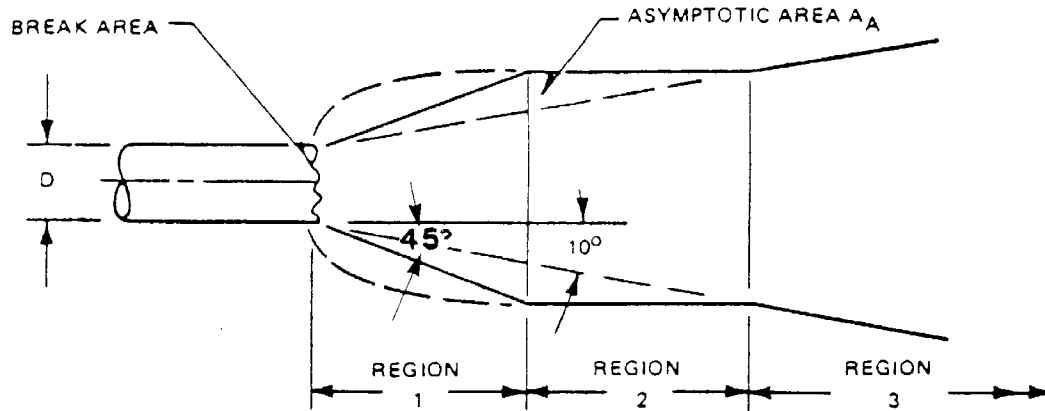
FIGURE 3.6-6
HAS BEEN DELETED



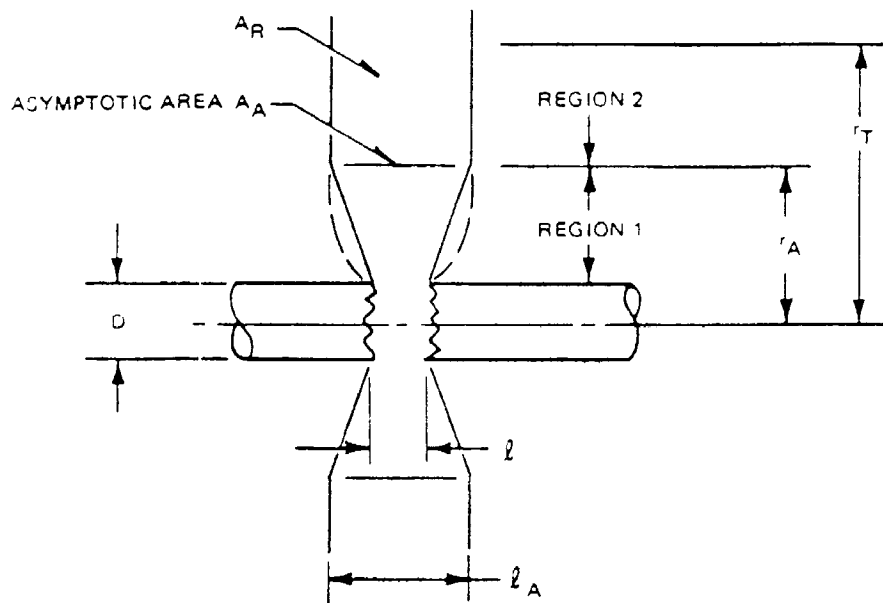
CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.6-7

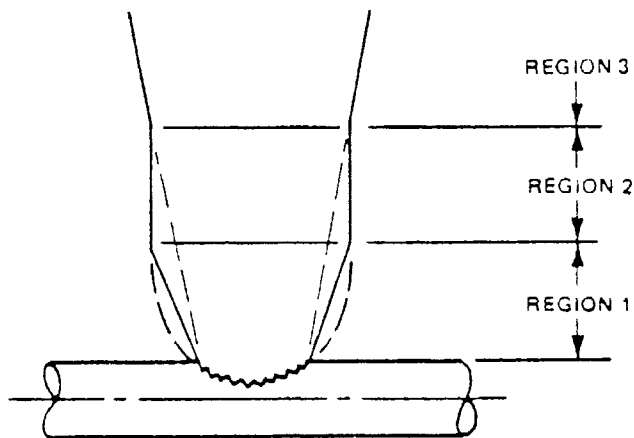
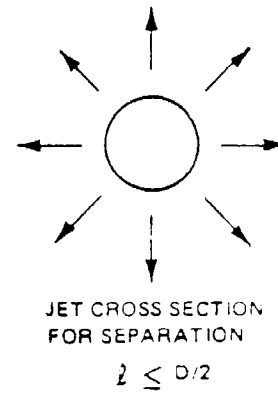
RESTRAINT PROPERTIES



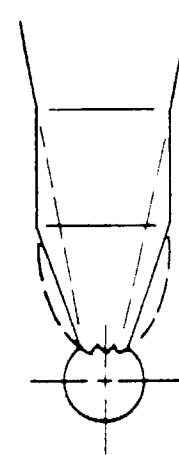
(A) CIRCUMFERENTIAL BREAK – FULL SEPARATION



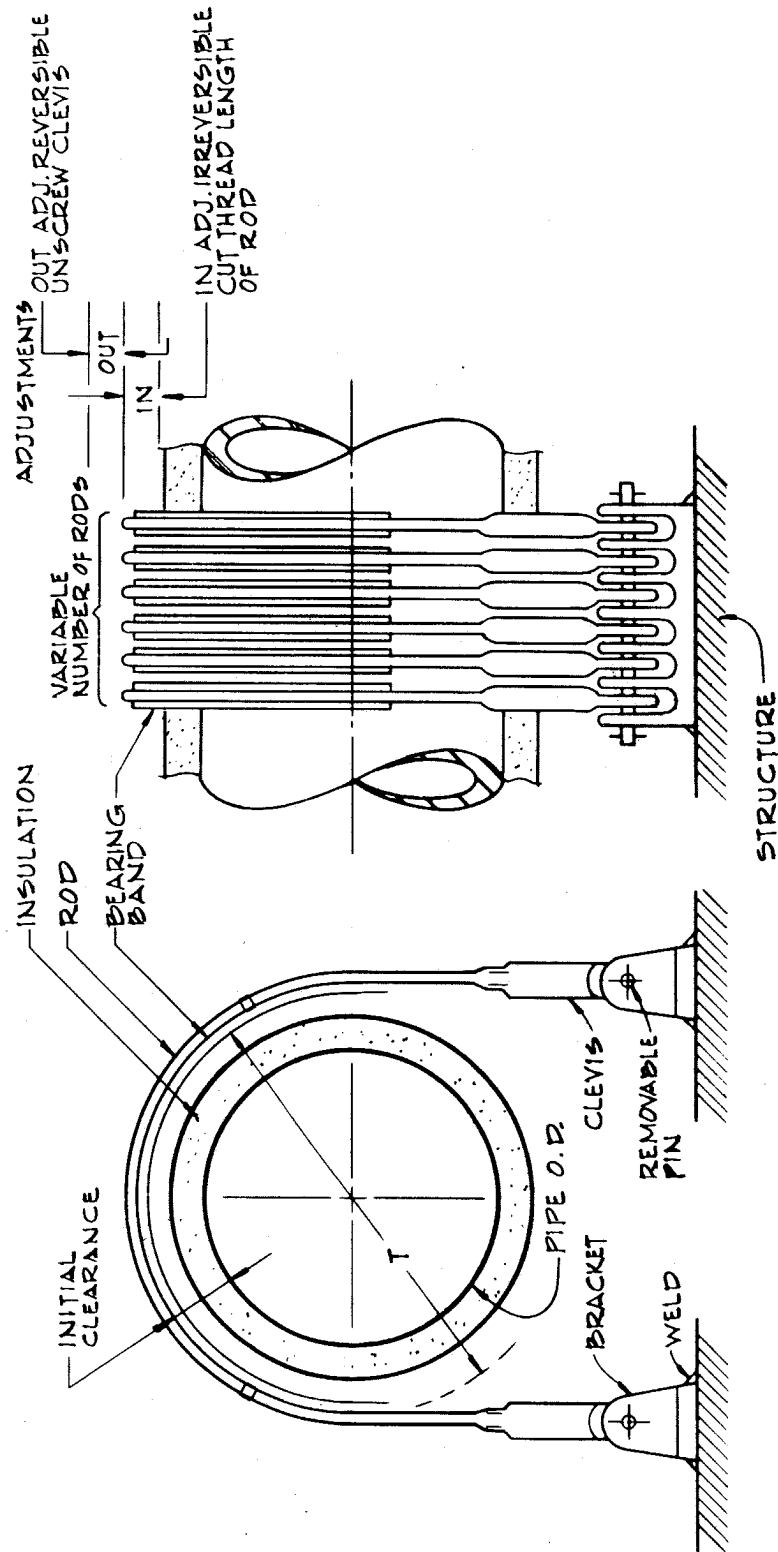
(B) CIRCUMFERENTIAL BREAK – PARTIAL SEPARATION



(C) LONGITUDINAL BREAK



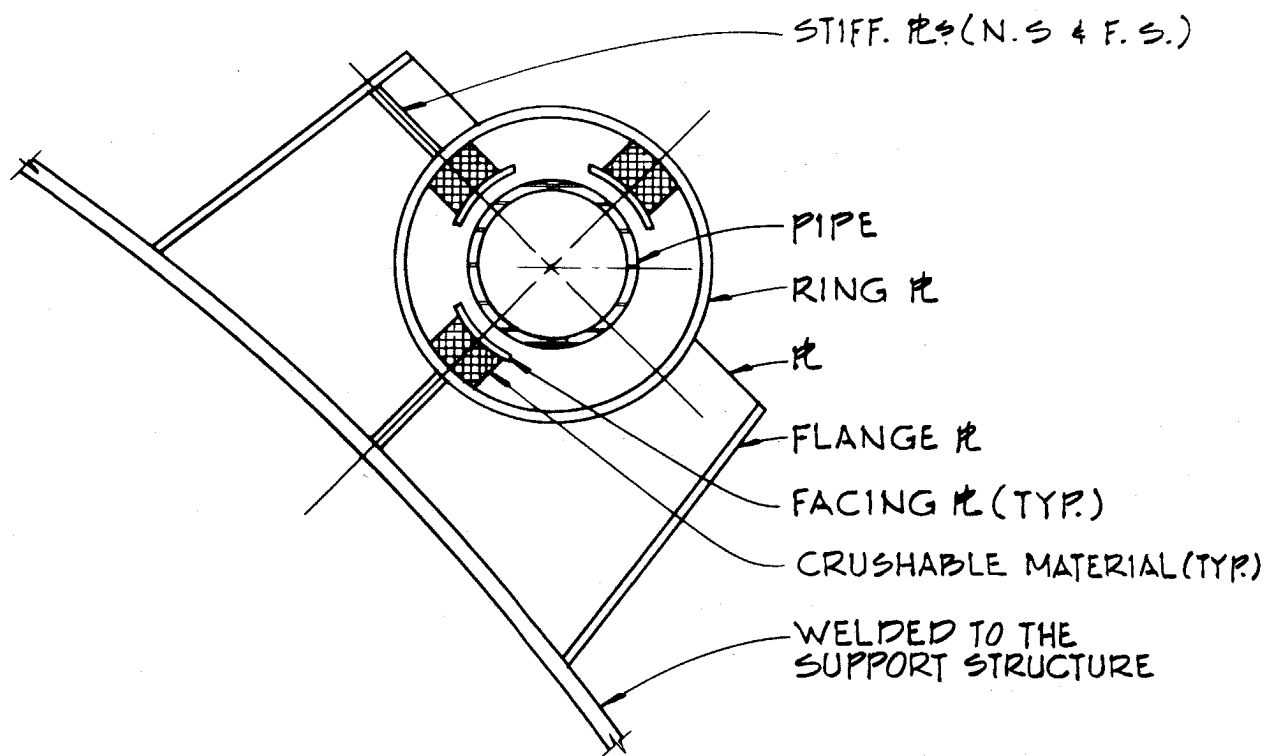
FIGURES 3.6-9 AND 3.6-10
HAVE BEEN DELETED



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.6-11

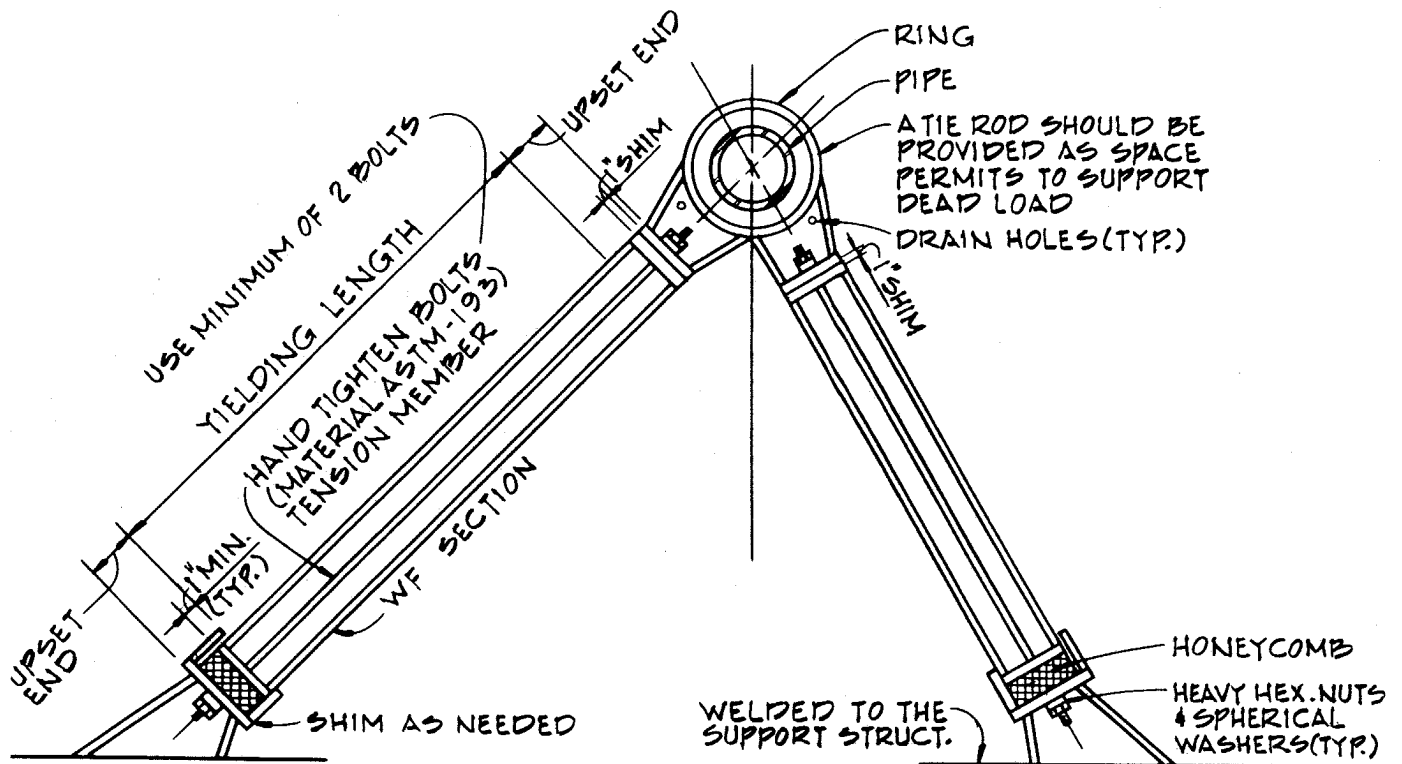
TYPICAL TENSION RESTRAINT



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.6-12

TYPICAL CRUSHABLE MATERIAL RESTRAINT

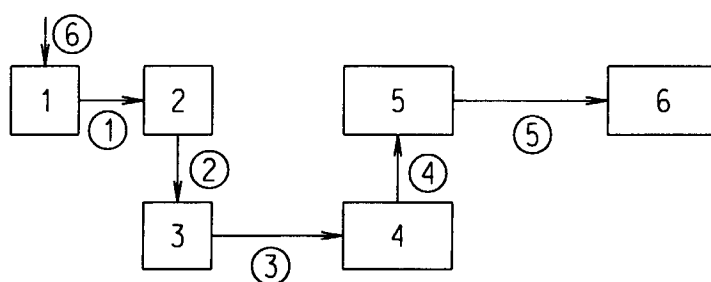


CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.6-13

TYPICAL TWO-LEGGED RESTRAINT

Figure 3.6-14
Deleted



NODE

DESCRIPTION

1	MAIN STEAM TUNNEL
2	MAIN STEAM TUNNEL
3	MAIN STEAM TUNNEL
4	BASEMENT, GRADE FLOOR, MEZZANINE FLOOR
5	TURBINE FLOOR
6	ATMOSPHERE

□ ≡ NODE

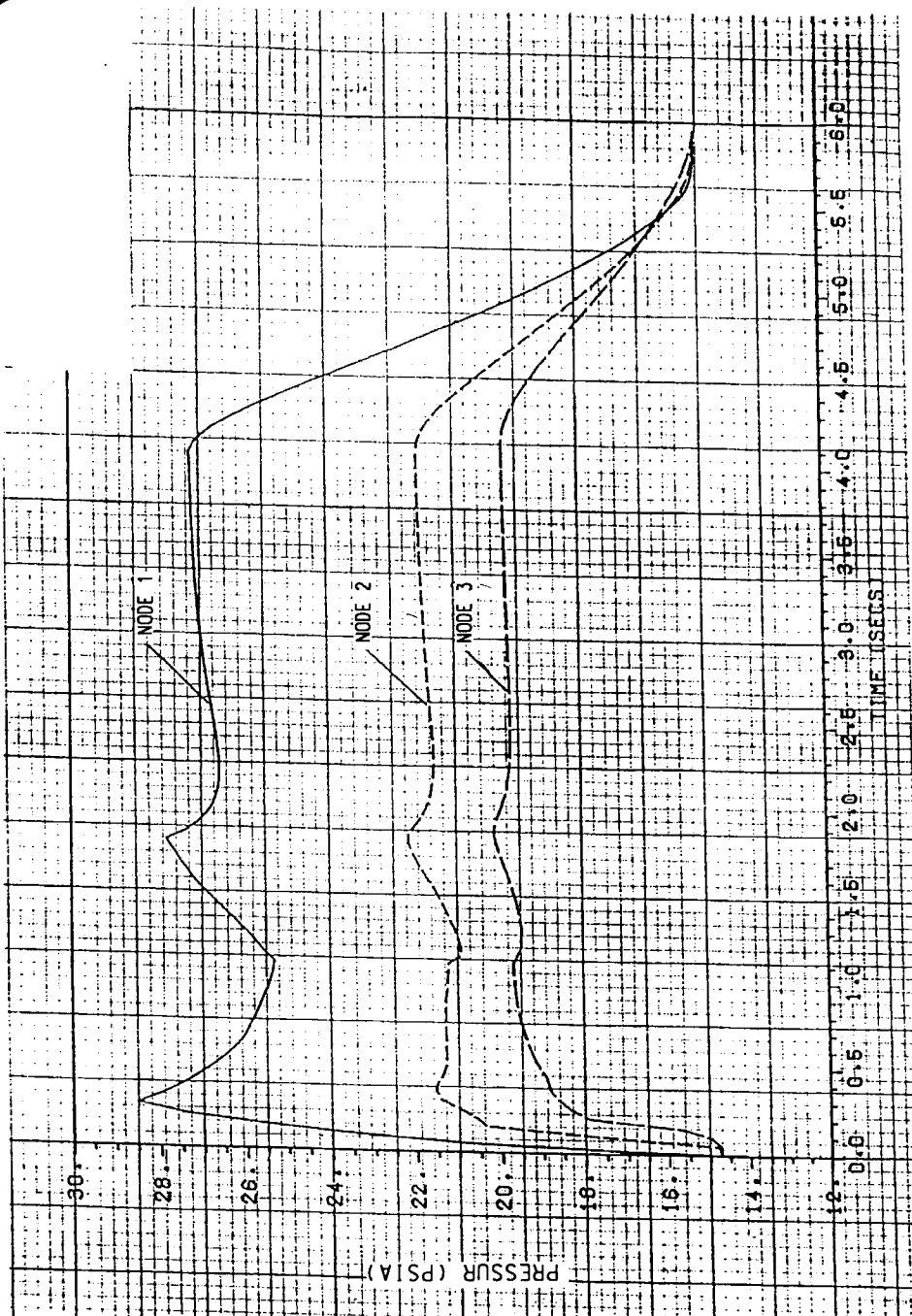
○ ≡ FLOW PATH

NOTE:

SEE TABLE 3.6-8 FOR A DESCRIPTION
OF THE NODES AND TABLE 3.6-9 FOR
A DESCRIPTION OF THE VENT PATHS.

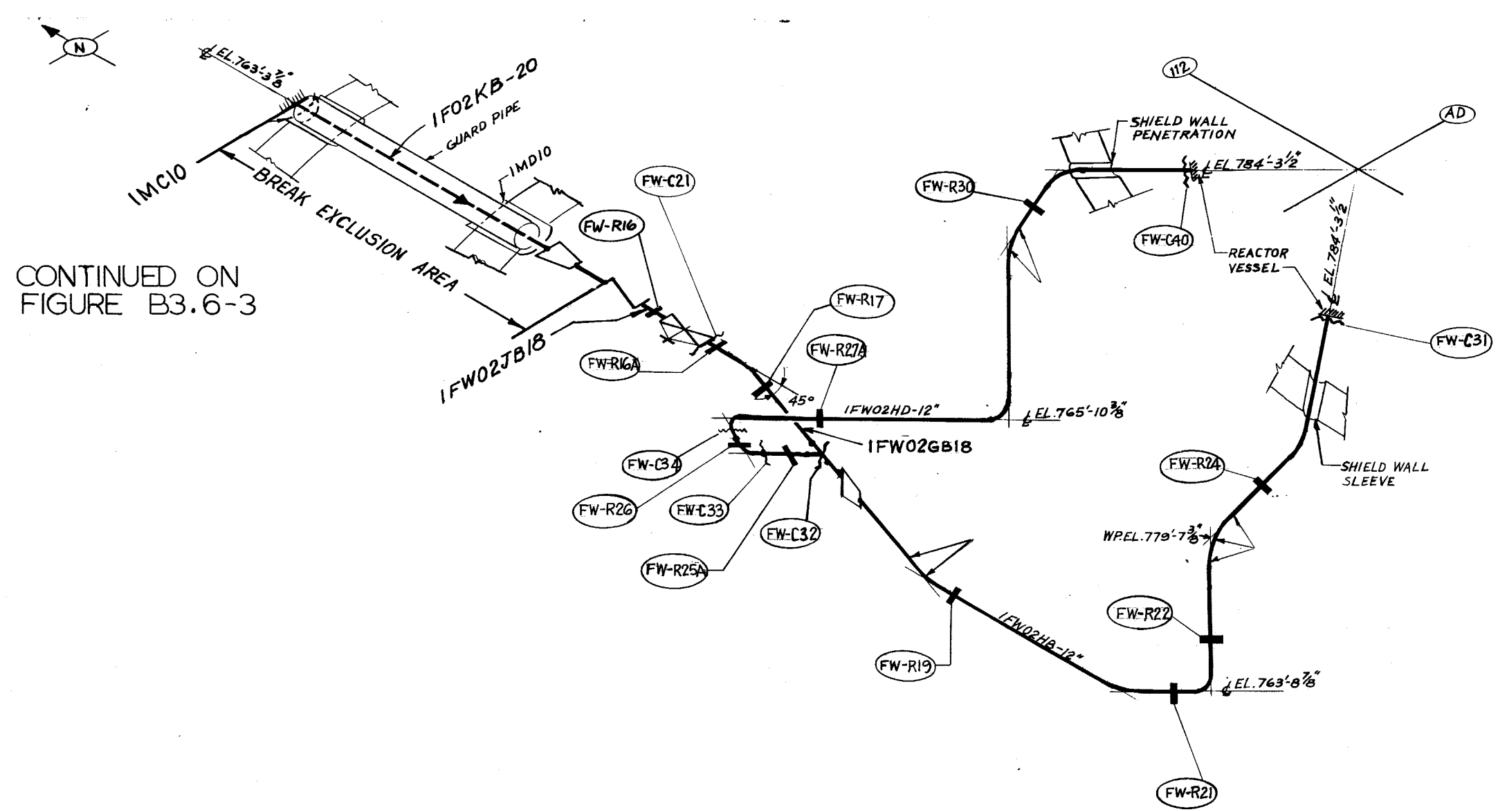
CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.6-15
NODALIZATION SCHEMATIC FOR
SIMULTANEOUS MAIN STEAMLINE AND
FEEDWATER LINE BREAK IN
THE STEAM TUNNEL



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

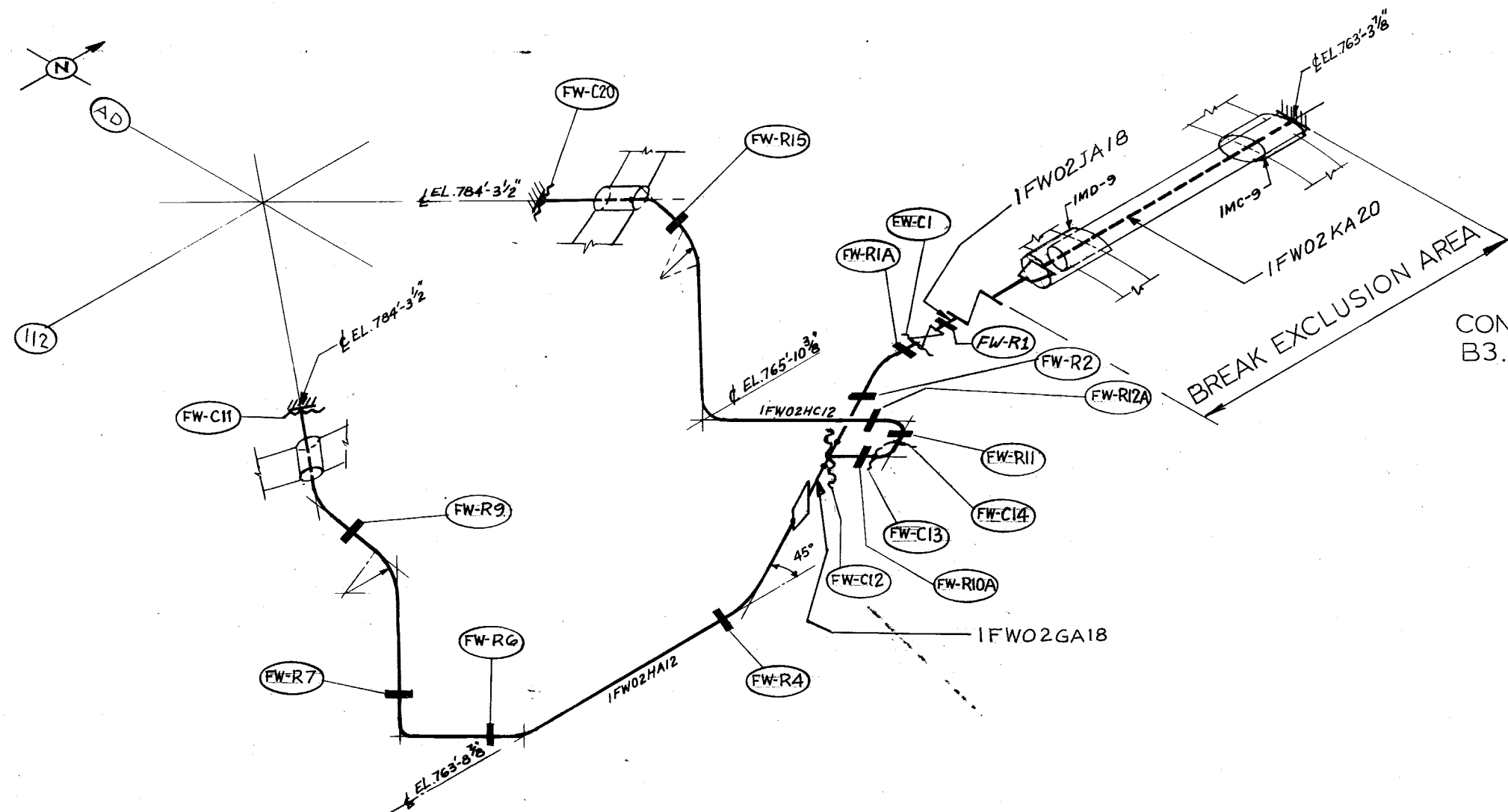
FIGURE 3.6-16
PRESSURE VS. TIME -
LINE BREAK IN STEAM TUNNEL



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 UPDATED SAFETY ANALYSIS REPORT

FIGURES B3.6-1

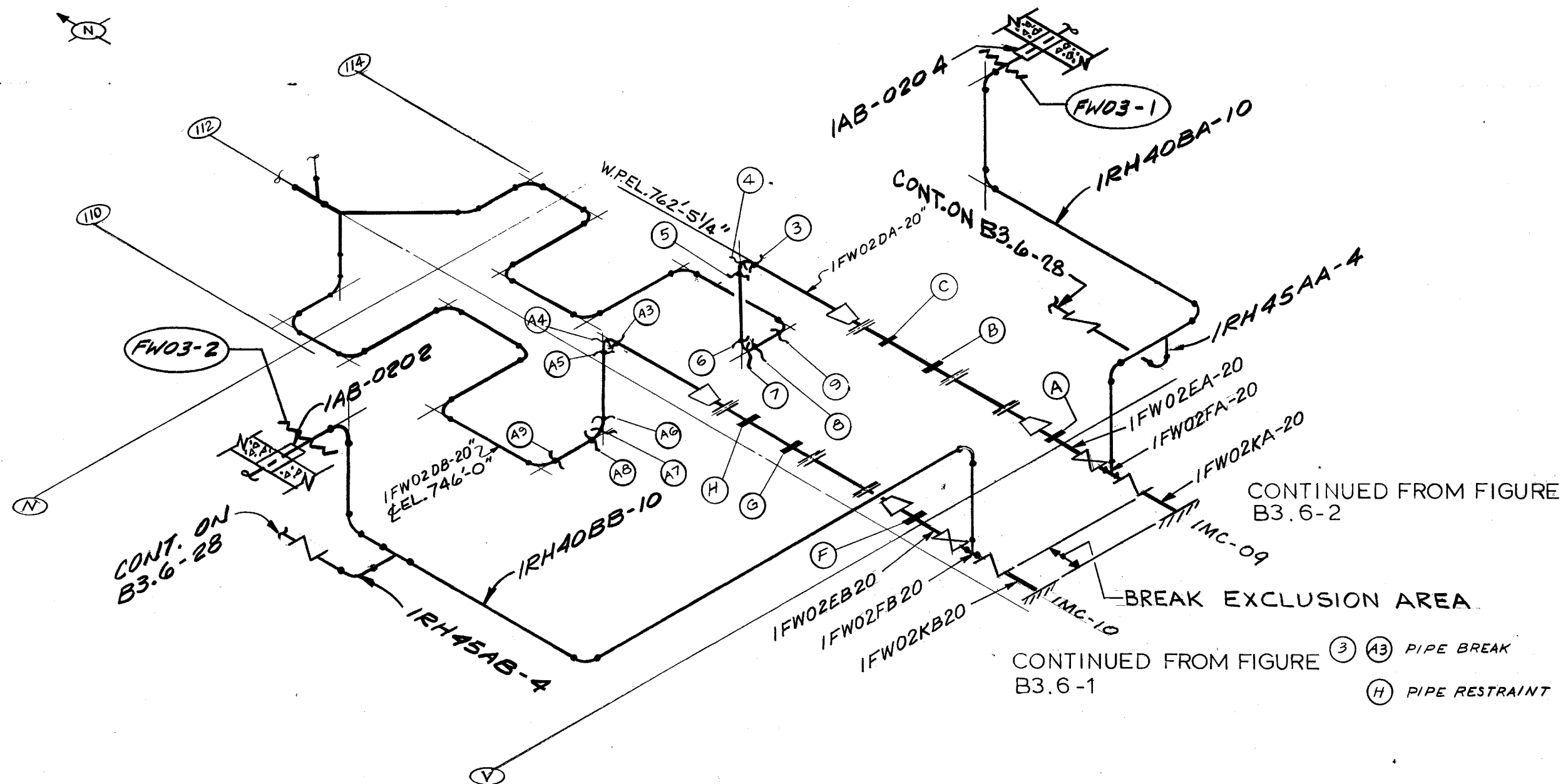
POSTULATED BREAKS AND RESTRAINT
 LOCATIONS FEEDWATER SUBSYSTEM
 FW-01 INSIDE CONTAINMENT

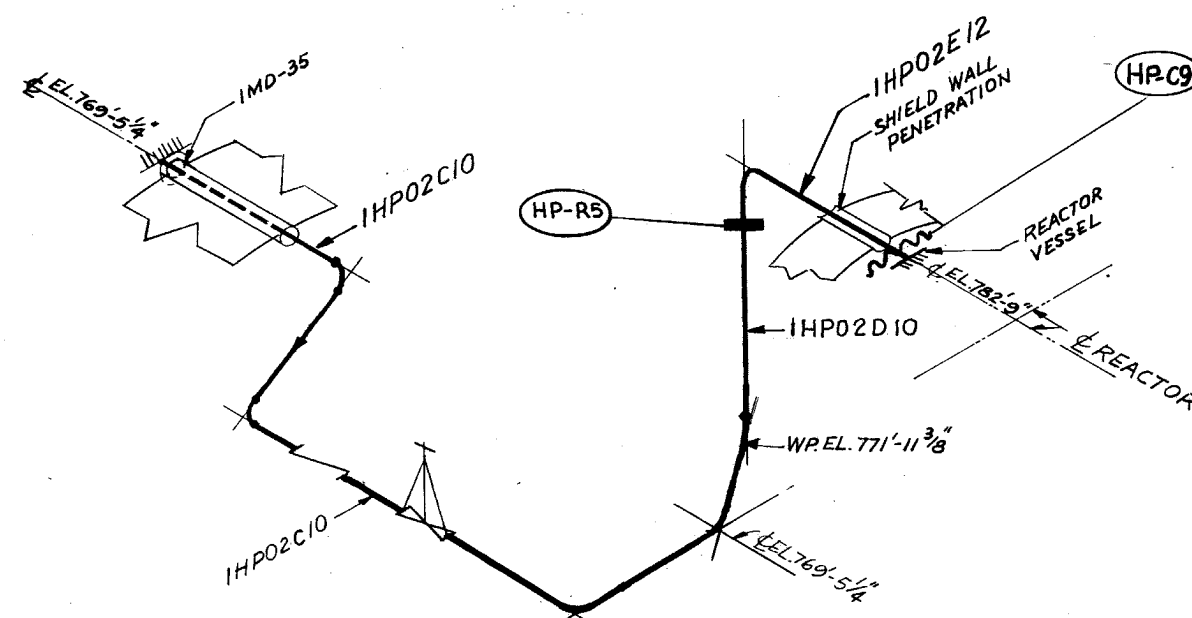
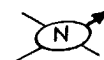


CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE B3.6-2

POSTULATED BREAKS AND RESTRAINT
LOCATIONS FEEDWATER SUBSYSTEM
FW-02 INSIDE CONTAINMENT



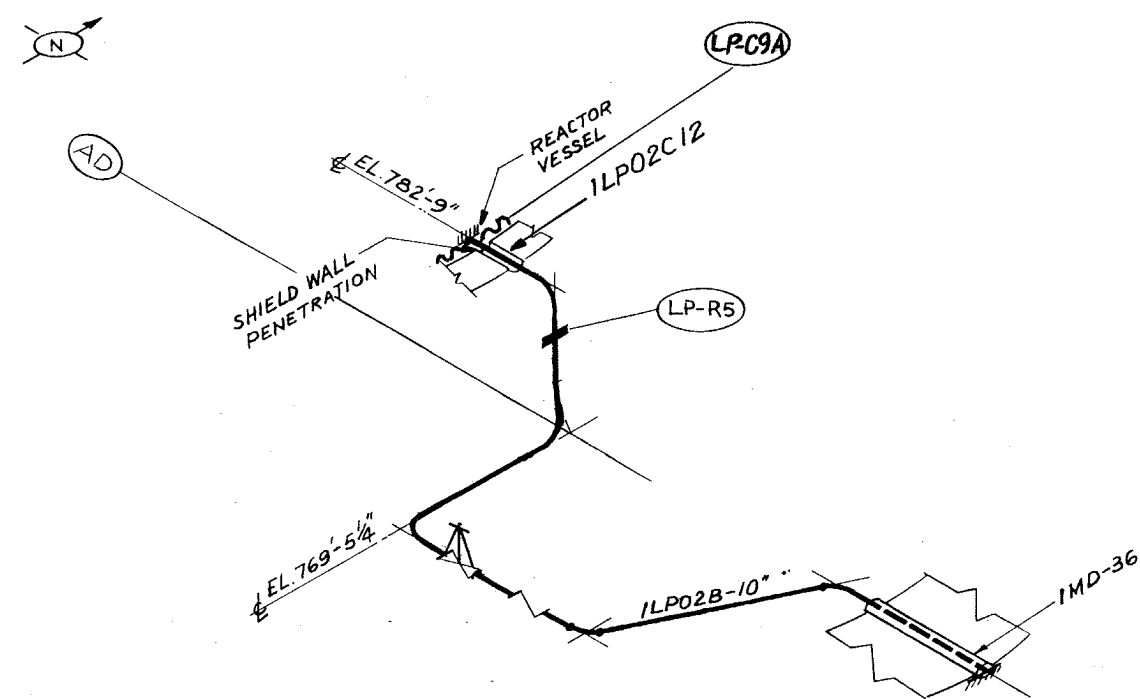


- HP-R PIPE RESTRAINT
- HP-C PIPE BREAK

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE B3.6-4

POSTULATED BREAKS AND RESTRAINT
LOCATION HP-01 INSIDE CONTAINMENT

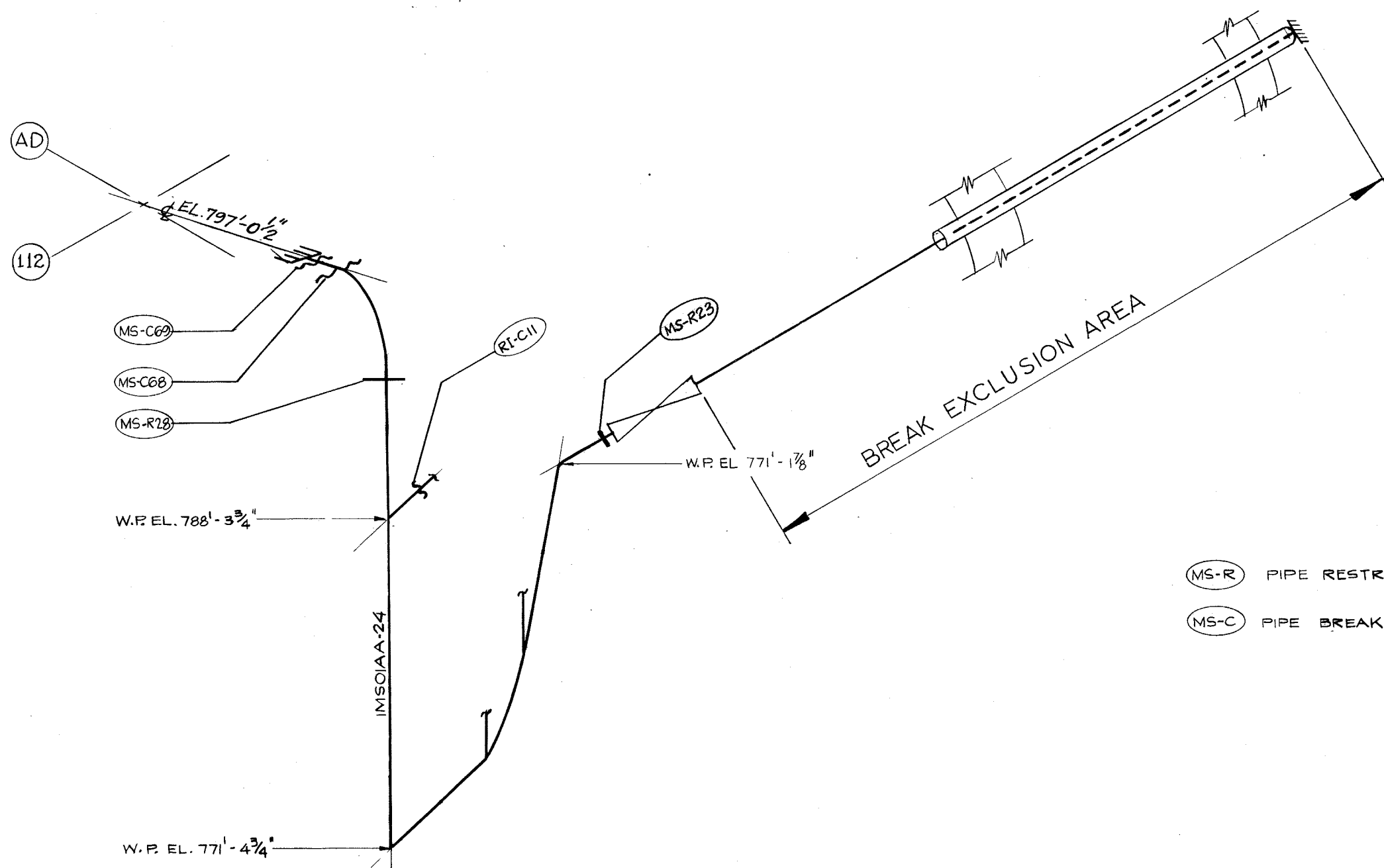
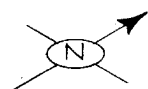


(LP-R) PIPE RESTRAINT
 (LP-C) PIPE BREAK

CLINTON POWER STATION
 UPDATED SAFETY ANALYSIS REPORT

FIGURE B3.6-5
 POSTULATED BREAKS AND RESTRAINT
 LOCATIONS LPCS SUBSYSTEM
 LP-01 INSIDE CONTAINMENT

CONTINUED ON FIGURE
B3.6-12



- (MS-R) PIPE RESTRAINT
- (MS-C) PIPE BREAK

**CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT**

FIGURE B3.6-6

POSTULATED BREAKS AND RESTRAINT
LOCATIONS MAIN STEAM SUBSYSTEM
MS-01 INSIDE CONTAINMENT

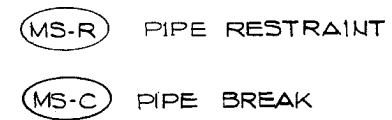
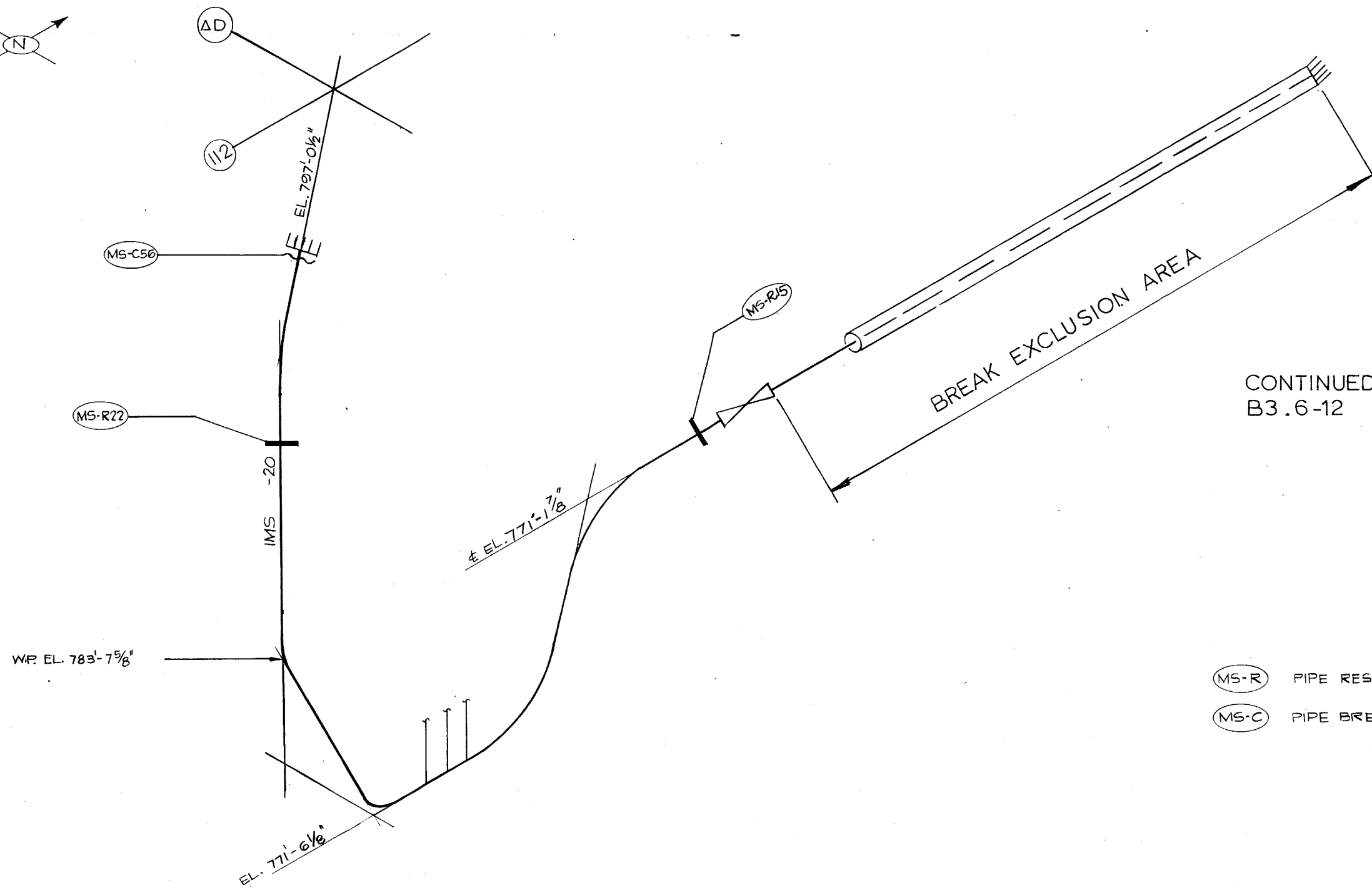
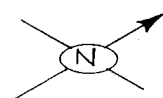


FIGURE B3.6-7

POSTULATED BREAKS AND RESTRAINT
LOCATIONS MAIN STEAM SUBSYSTEM
MS-02 INSIDE CONTAINMENT



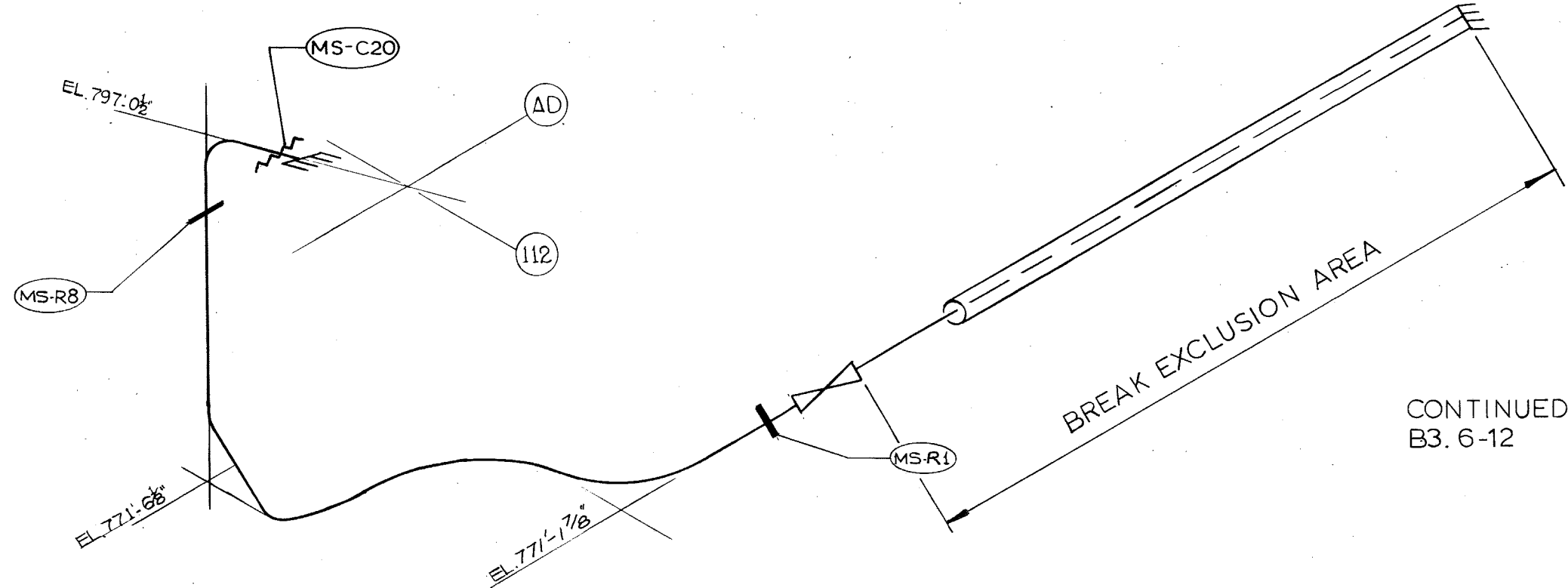
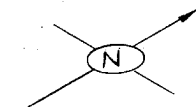
CONTINUED ON FIGURE
B3.6-12

- (MS-R) PIPE RESTRAINT
- (MS-C) PIPE BREAK

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE B3.6-8

POSTULATED BREAKS AND RESTRAINT
LOCATIONS MAIN STEAM SUBSYSTEM
MS-03 INSIDE CONTAINMENT



CONTINUED ON FIGURE
B3.6-12

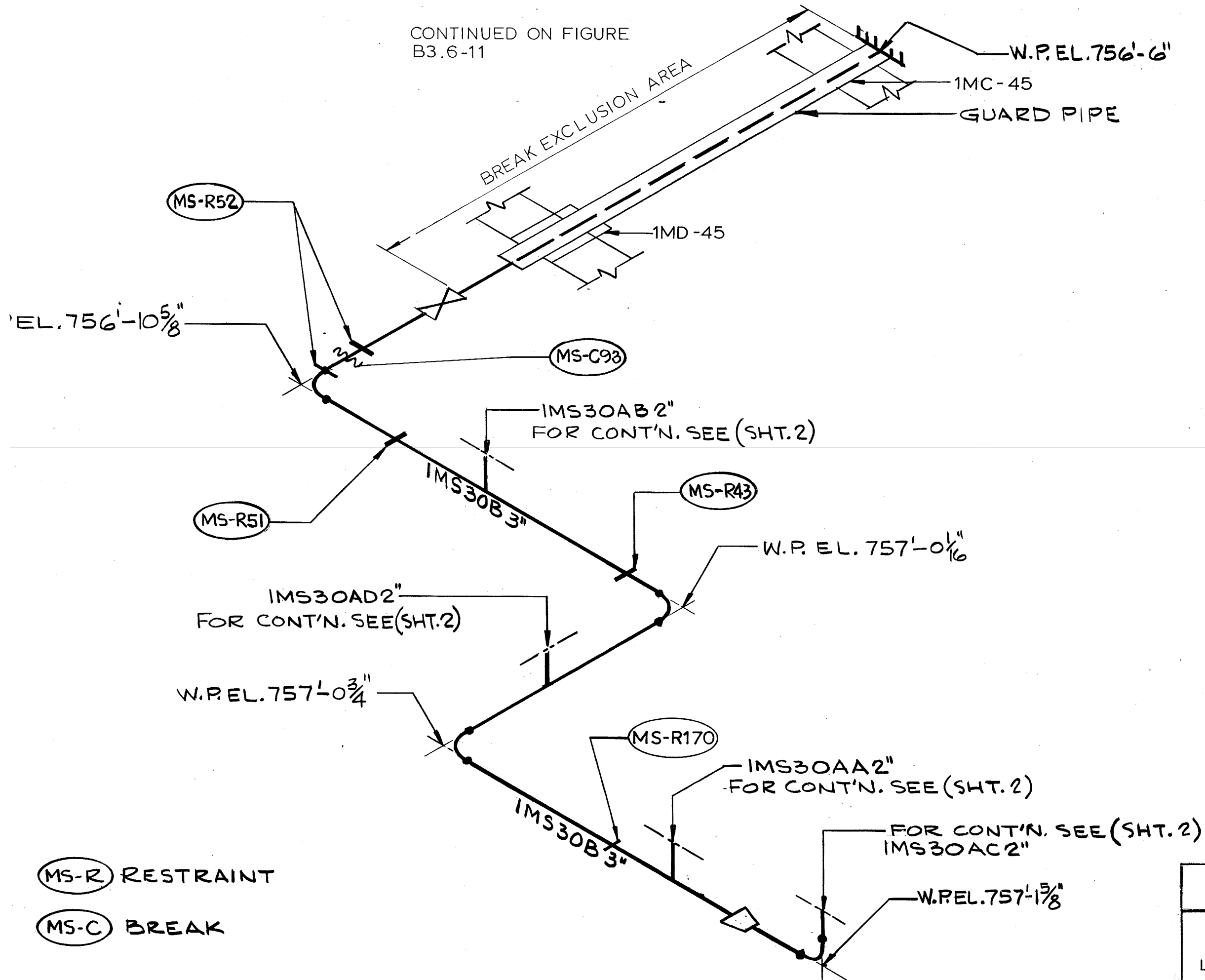
- (MS-R) PIPE RESTRAINT
- (MS-C) PIPE BREAK

CLINTON POWER STATION
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FIGURE B3.6-9

POSTULATED BREAKS AND RESTRAINT
LOCATIONS MAIN STEAM SUBSYSTEM
MS-04 INSIDE CONTAINMENT

CONTINUED ON FIGURE
B3.6-11

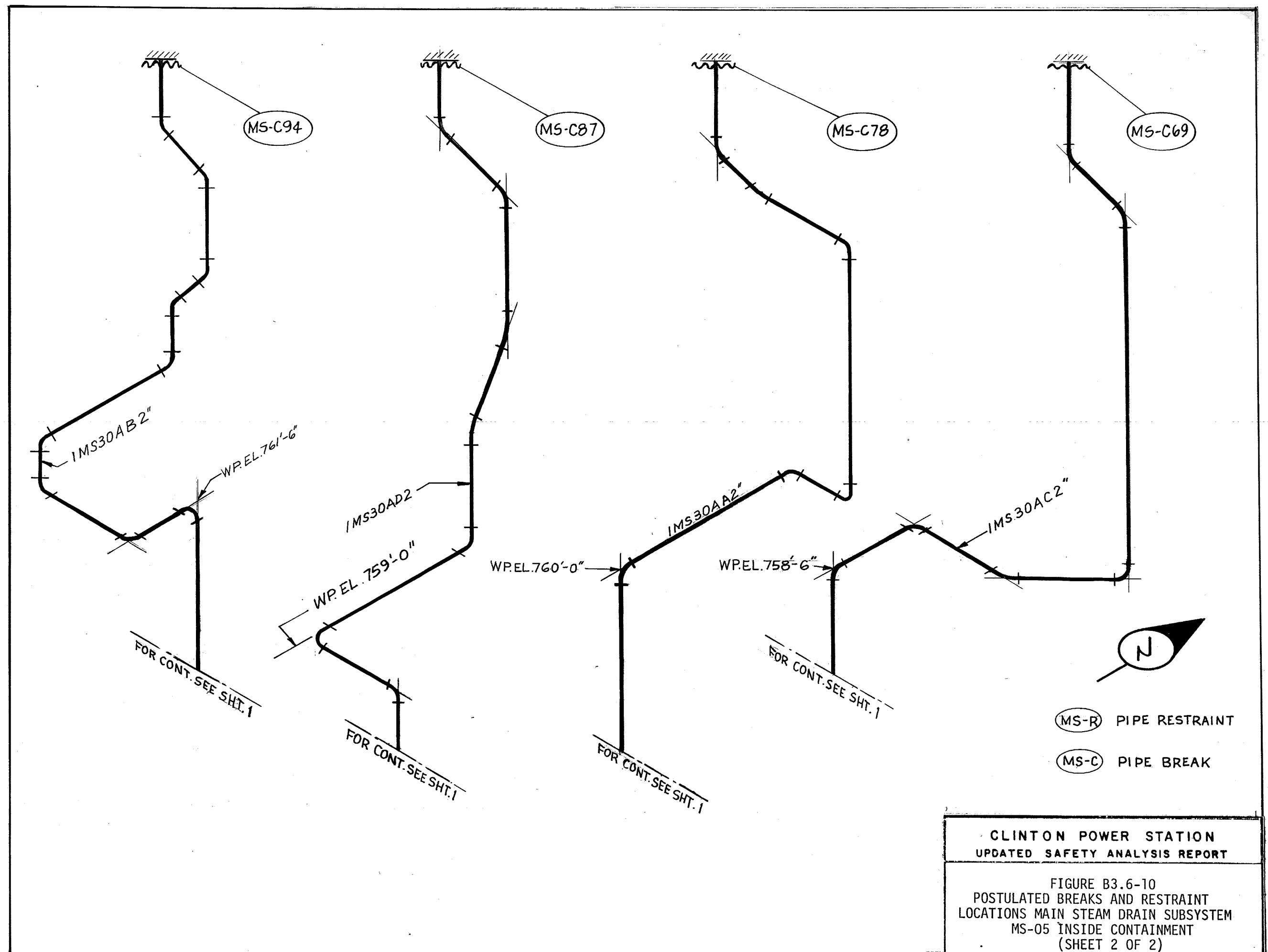


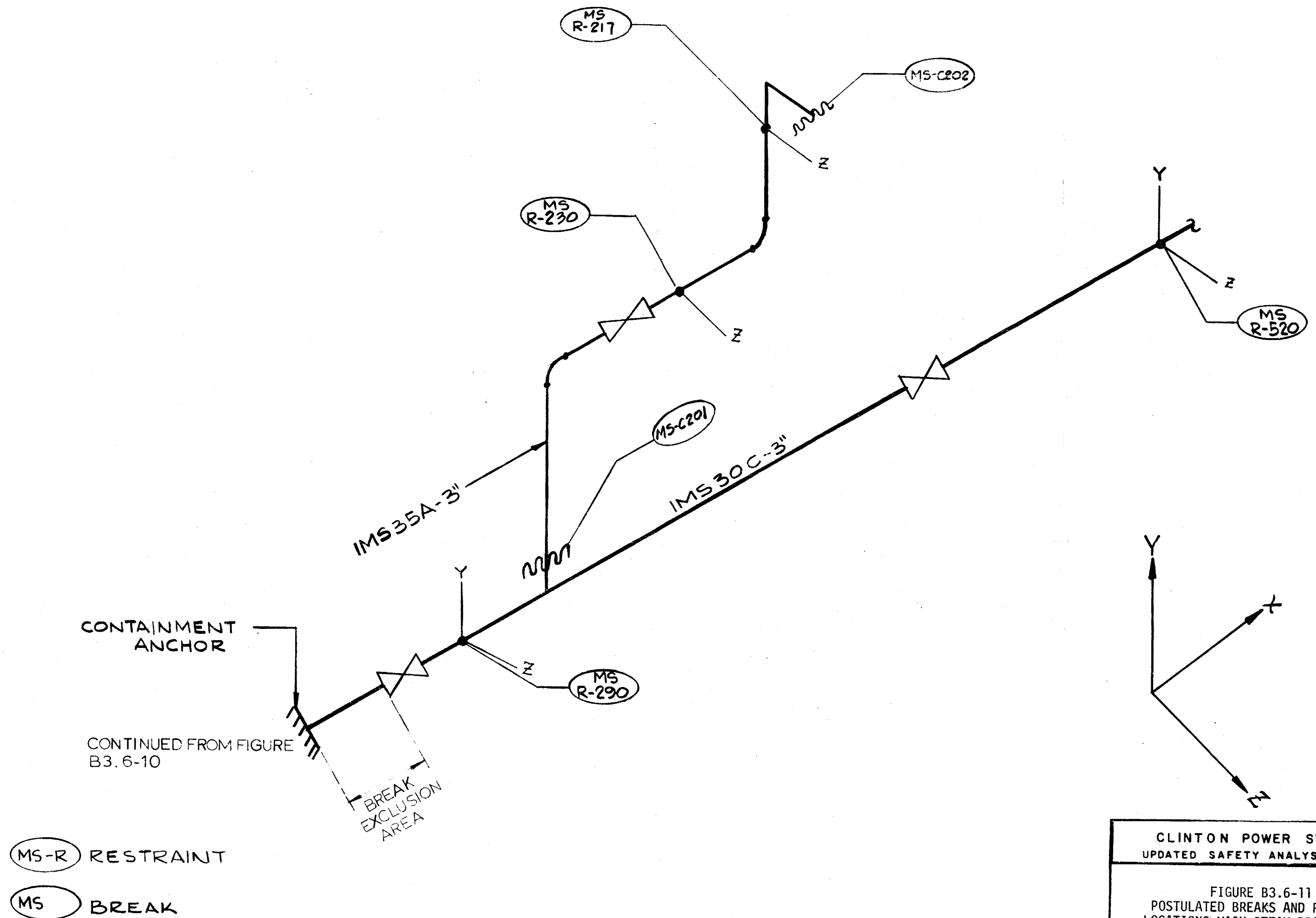
(MS-R) RESTRAINT

(MS-C) BREAK

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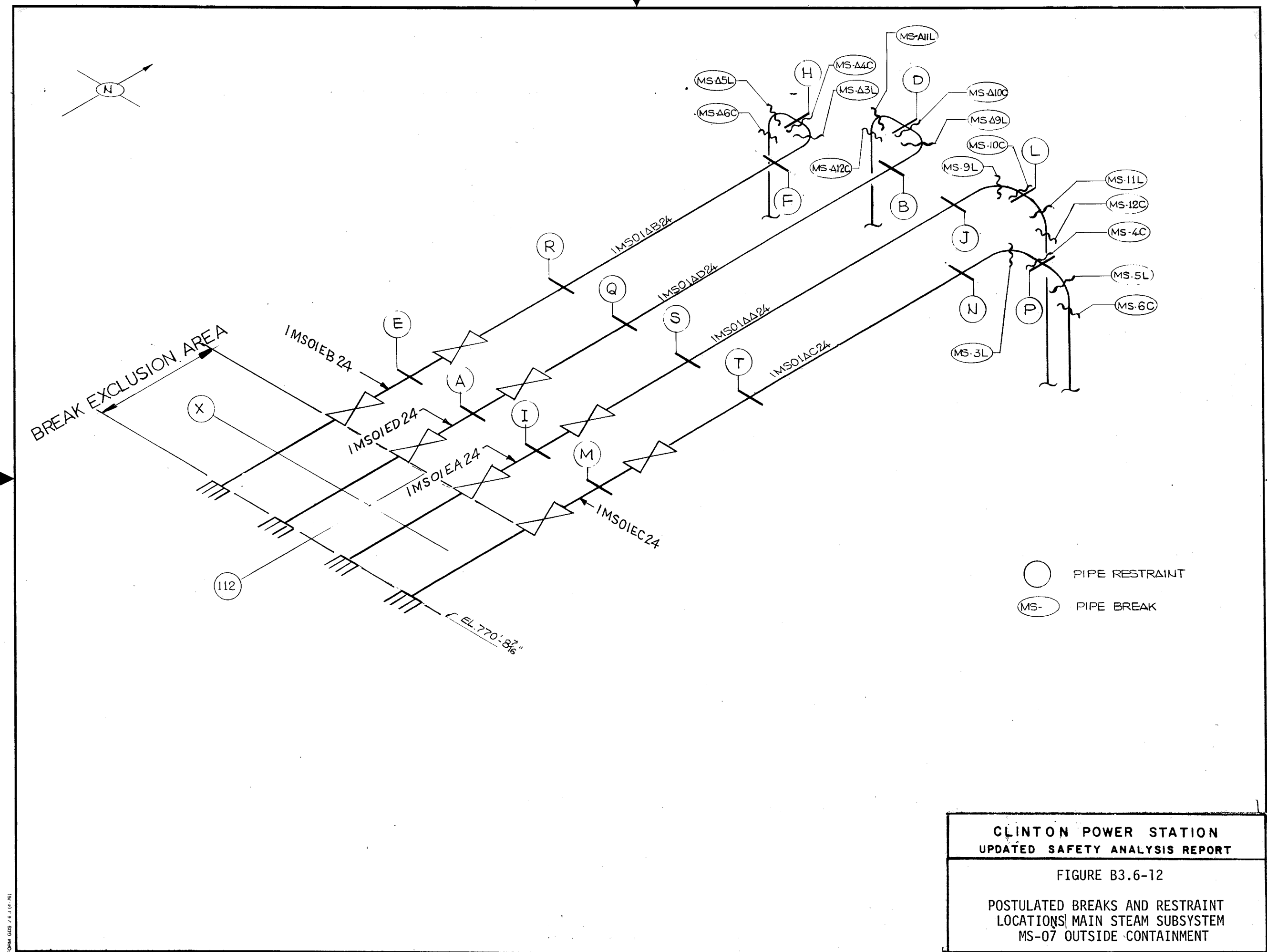
FIGURE B3.6-10
POSTULATED BREAKS AND RESTRAINT
LOCATIONS MAIN STEAM DRAIN SUBSYSTEM
MS-05 INSIDE CONTAINMENT
(SHEET 1 OF 2)

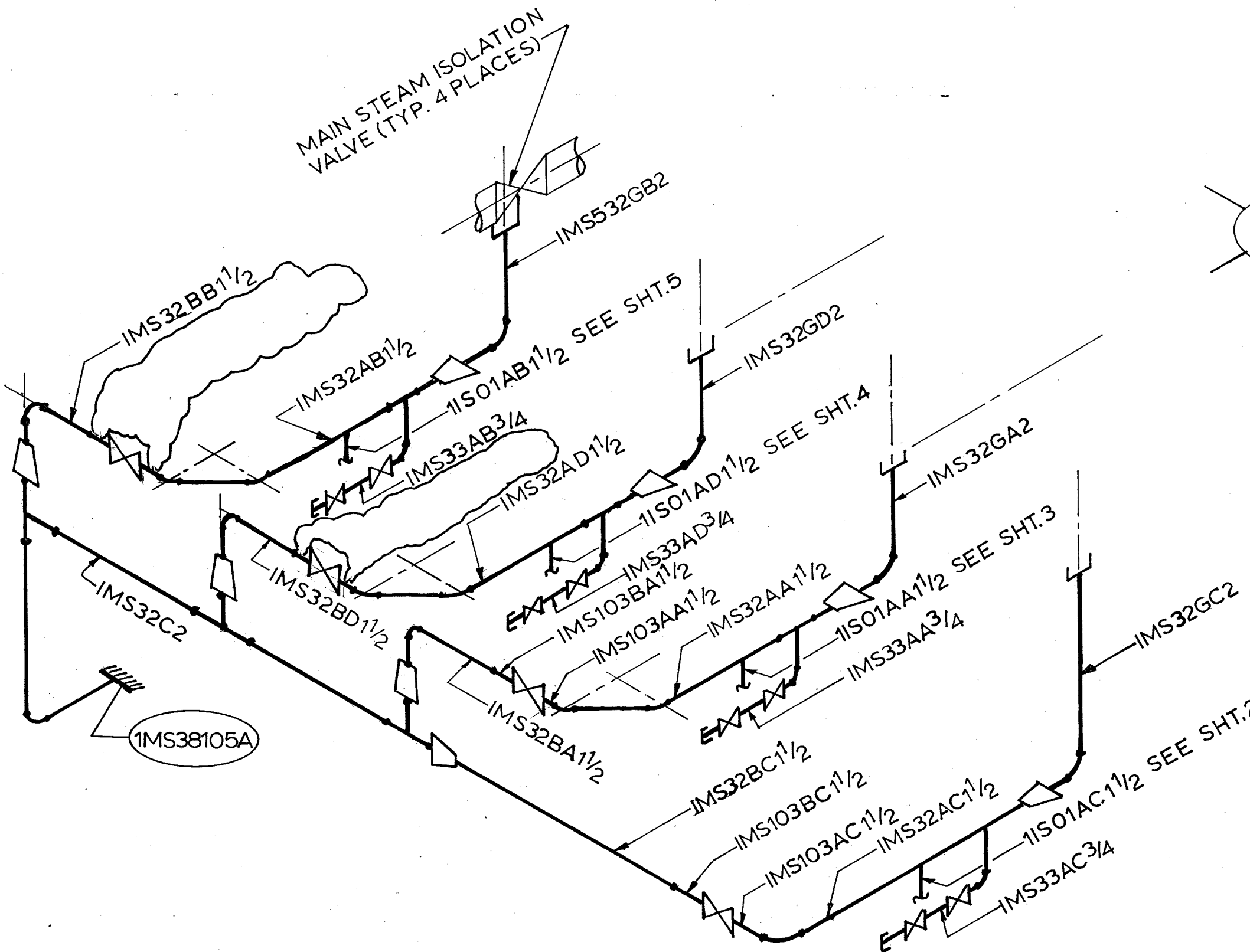




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FIGURE B3.6-11
POSTULATED BREAKS AND RESTRAINT
LOCATIONS: MAIN STEAM DRAIN SUBSYSTEM
MS-06 OUTSIDE CONTAINMENT



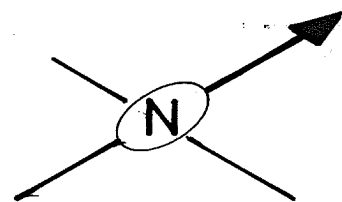


○ PIPE WHIP ANCHOR

NOTE:
PORTION OF SUB-SYSTEM
SHOWN ON THIS SHEET
IS HIGH ENERGY.

CLINTON POWER STATION
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FIGURE B3.6-13
POSTULATED BREAKS AND RESTRAINT
LOCATIONS MAIN STEAM DRAIN SUBSYSTEM
MS-38A OUTSIDE CONTAINMENT
(SHEET 1 OF 5)



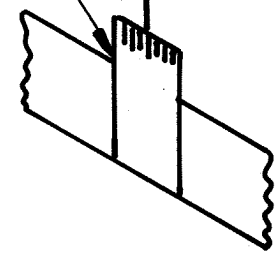
FOR CONT.
SEE SHT. 1

IMS32AC 1 1/2"

IIS01AC 1 1/2"

IIS06AC 1 1/2"

IAB0719



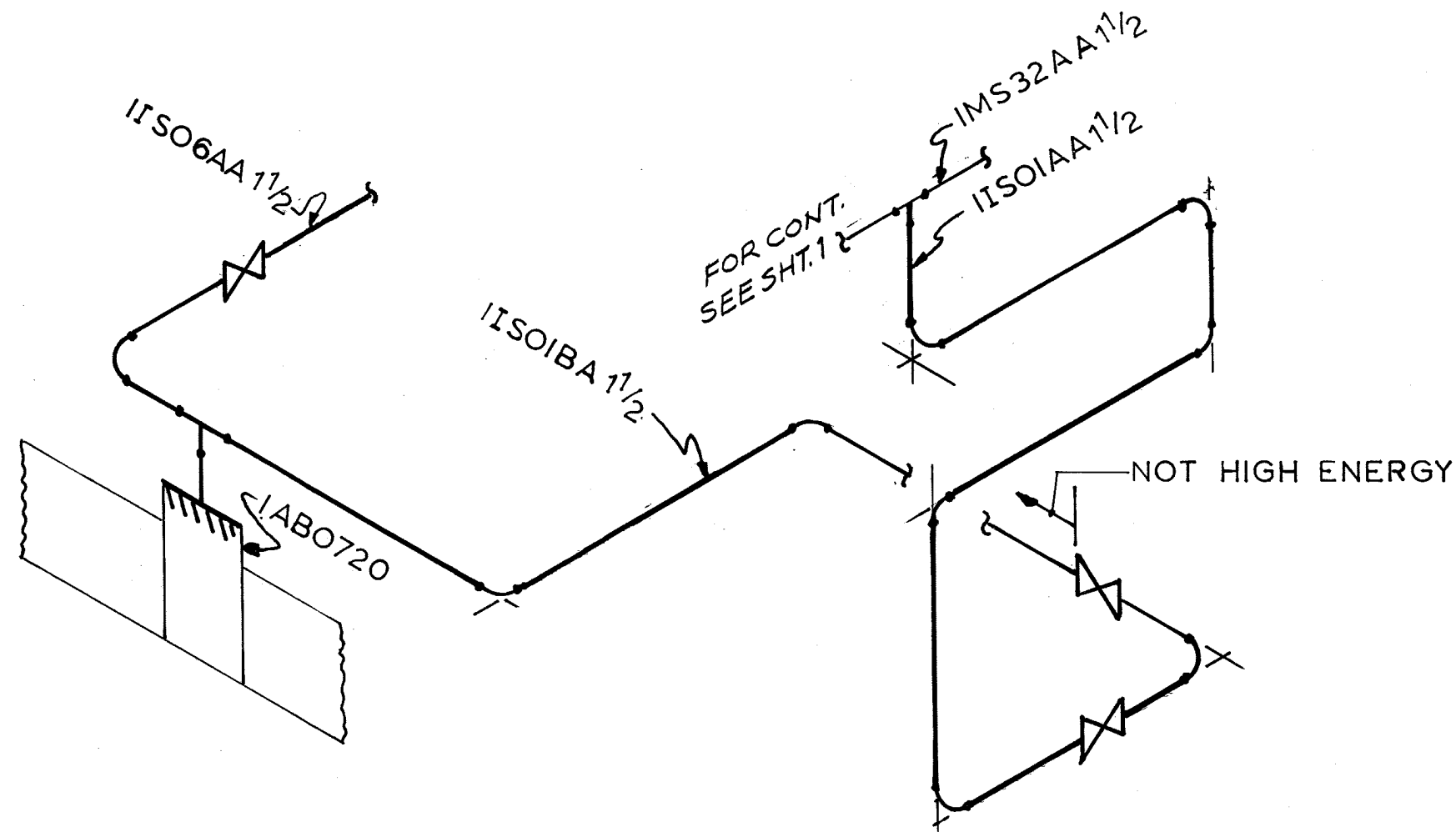
NOT HIGH
ENERGY

IIS01BC 1 1/2"

NOTE:
ENTIRE SUB-SYSTEM IS BREAK
EXCLUSION AREA EXCEPT FOR
PORTION OF SUB-SYSTEM THAT
IS NOT HIGH ENERGY.

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE B3.6-13
POSTULATED BREAKS AND RESTRAINT
LOCATIONS MAIN STEAM DRAIN SUBSYSTEM
MS-38A OUTSIDE CONTAINMENT
(SHEET 2 OF 5)

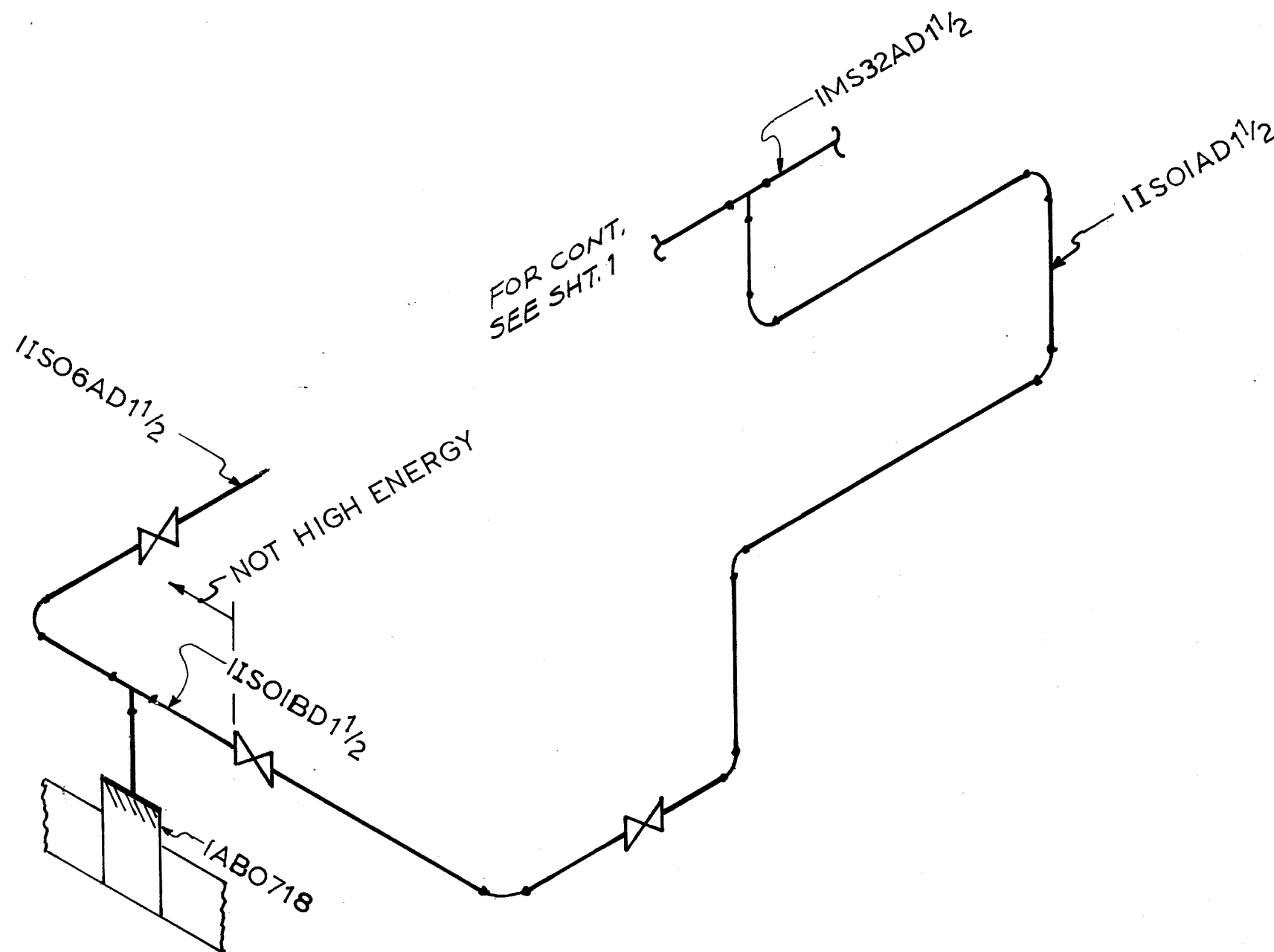


NOTE:

ENTIRE SUB-SYSTEM IS
BREAK EXCLUSION AREA
EXCEPT FOR PORTION
OF SUB SYSTEM, THAT
IS NOT HIGH ENERGY.

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE B3.6-13
POSTULATED BREAKS AND RESTRAINT
LOCATIONS MAIN STEAM DRAIN SUBSYSTEM
MS-38A OUTSIDE CONTAINMENT
(SHEET 3 OF 5)

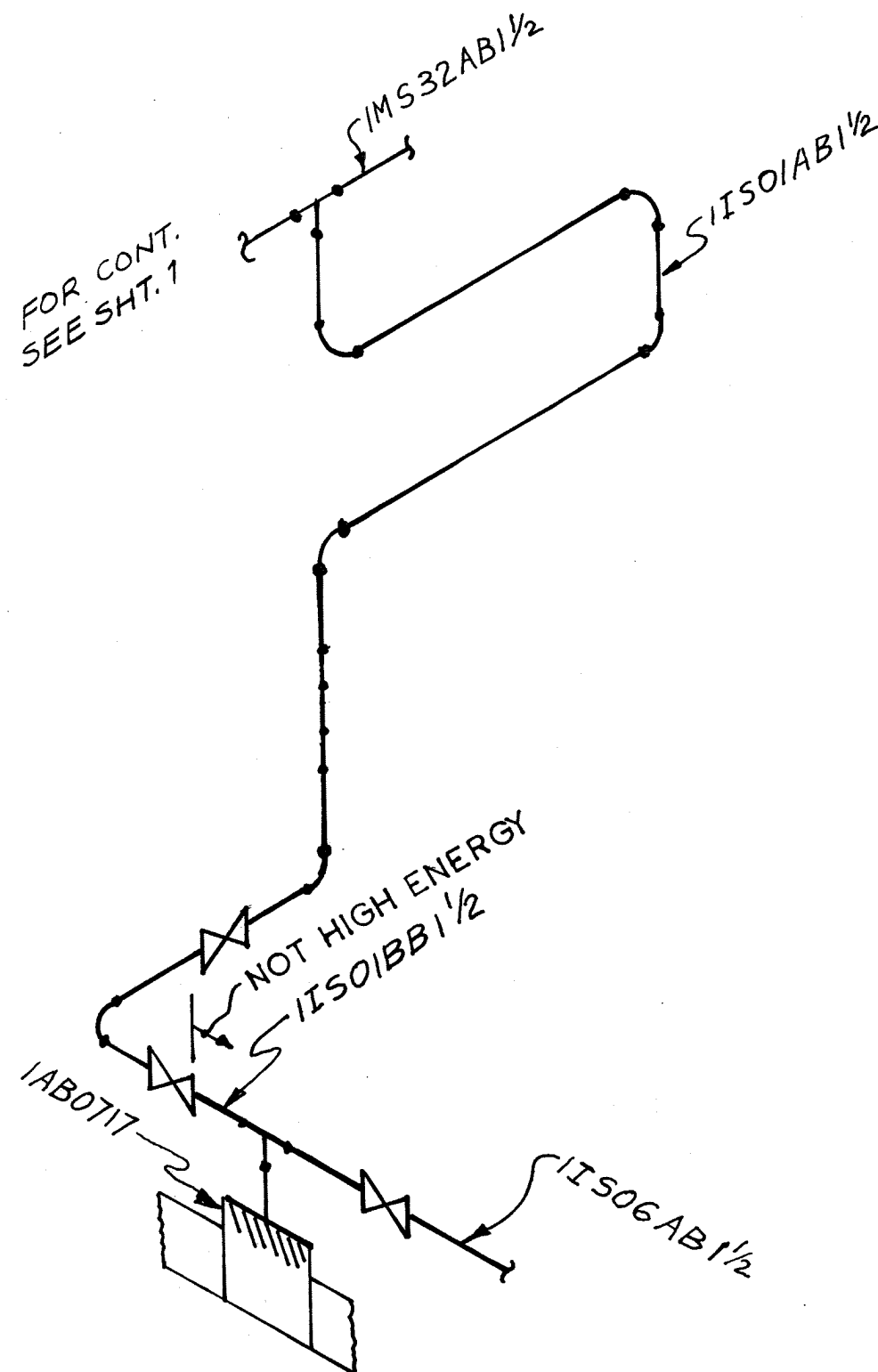


NOTE:

ENTIRE SUB-SYSTEM IS
BREAK EXCLUSION AREA EXCEPT
FOR PORTION OF SUB-SYSTEM
THAT IS NOT HIGH ENERGY.

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE B3.6-13
POSTULATED BREAKS AND RESTRAINT
LOCATIONS MAIN STEAM DRAIN SUBSYSTEM
MS-38A OUTSIDE CONTAINMENT
(SHEET 4 OF 5)

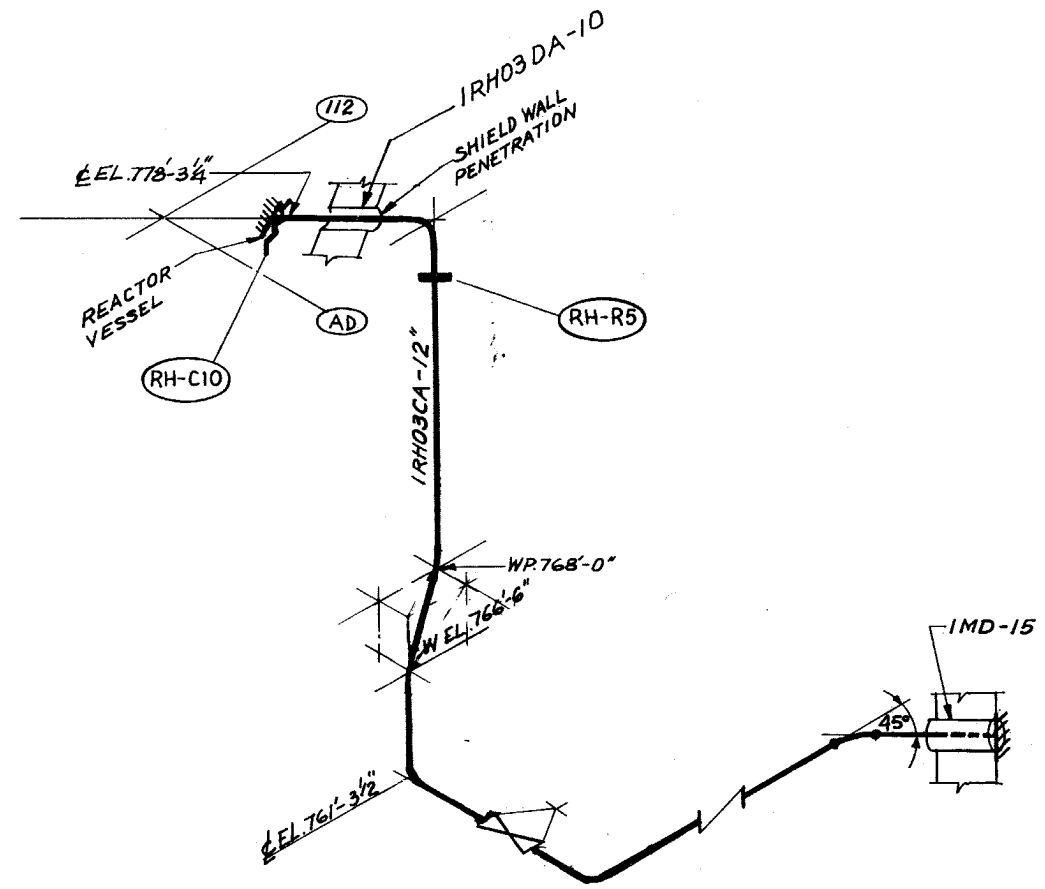


NOTE:

ENTIRE SUB-SYSTEM IS
BREAK EXCLUSION AREA
EXCEPT FOR PORTION OF
SUB SYSTEM THAT IS NOT
HIGH ENERGY.

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

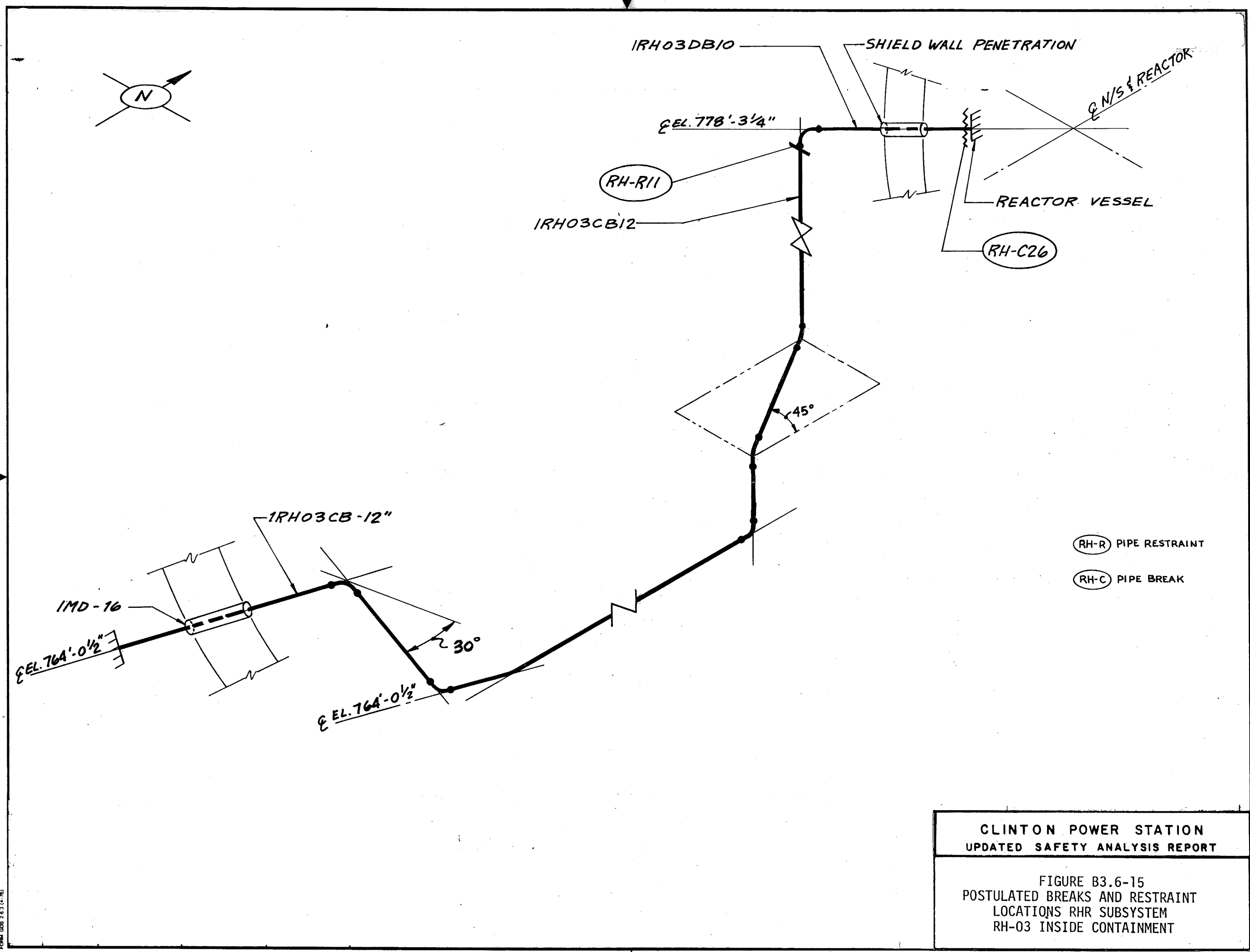
FIGURE B3.6-13
POSTULATED BREAKS AND RESTRAINT
LOCATIONS MAIN STEAM DRAIN SUBSYSTEM
MS-38A OUTSIDE CONTAINMENT
(SHEET 5 OF 5)



- (RH-R) PIPE RESTRAINT
- (RH-C) PIPE BREAK

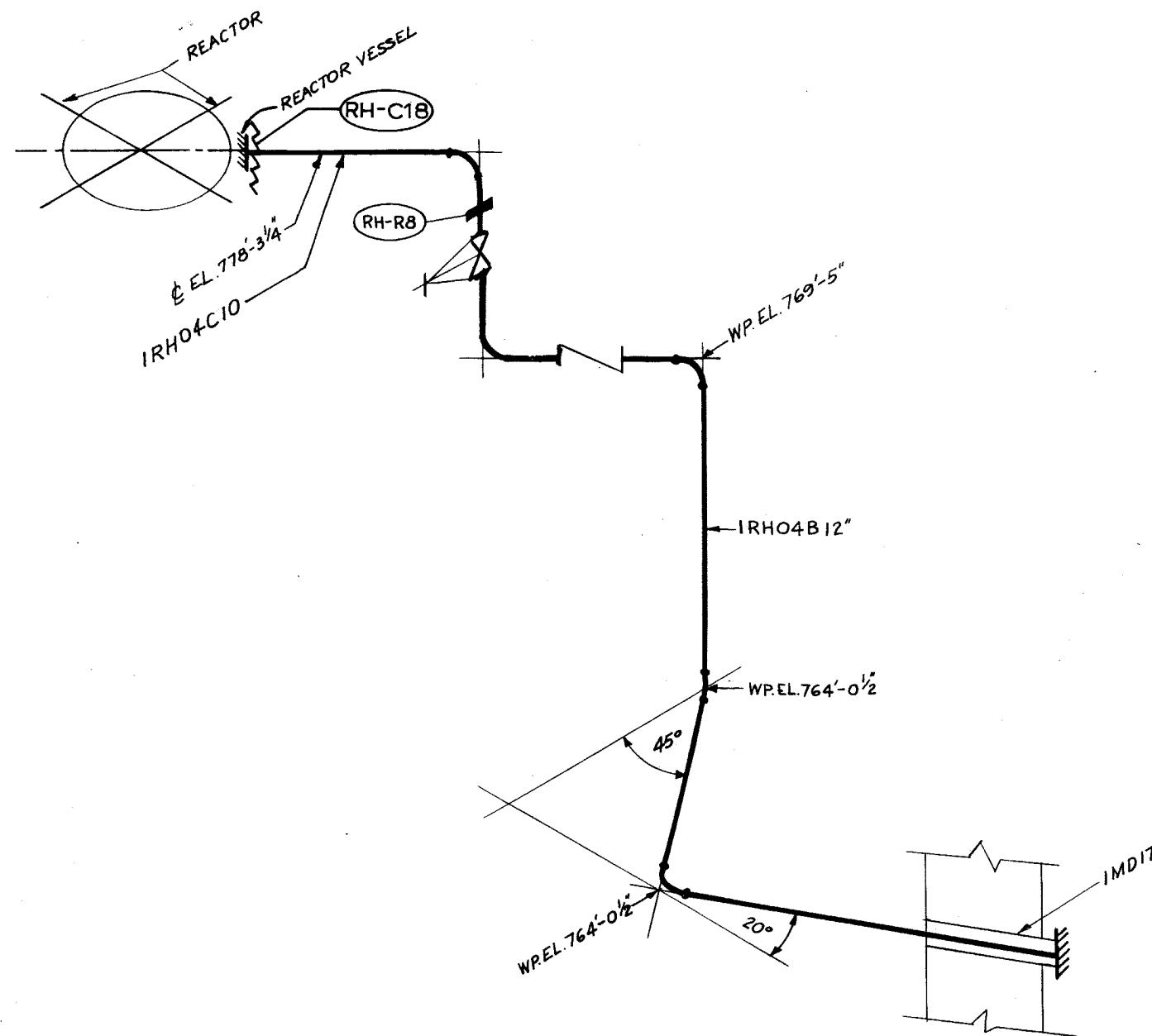
CLINTON POWER STATION
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FIGURE B3.6-14
POSTULATED BREAKS AND RESTRAINT
LOCATIONS RHR SUBSYSTEM
RH-01 INSIDE CONTAINMENT



CLINTON POWER STATION
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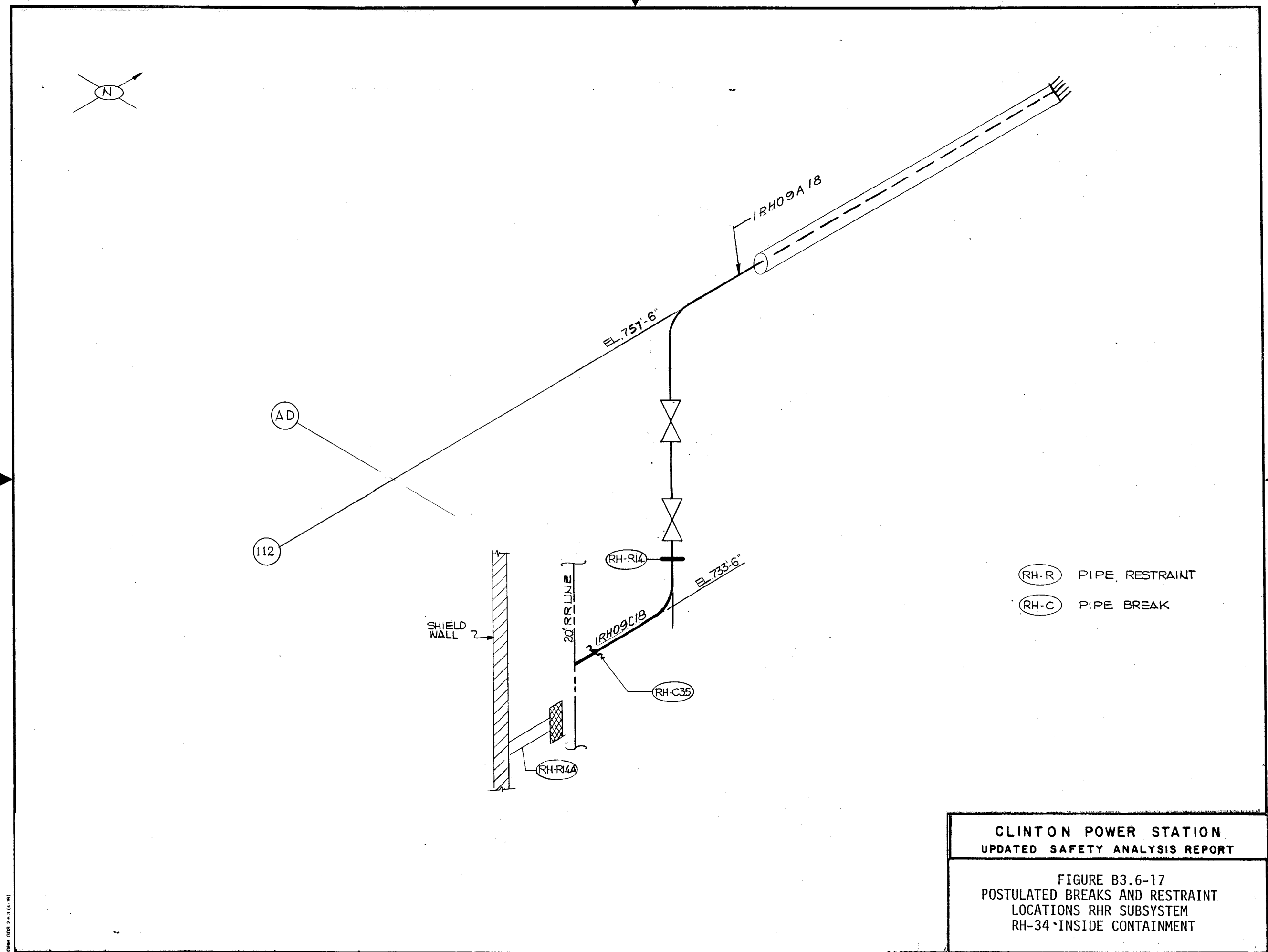
FIGURE B3.6-15
 POSTULATED BREAKS AND RESTRAINT
 LOCATIONS RHR SUBSYSTEM
 RH-03 INSIDE CONTAINMENT



(RH-R) PIPE RESTRAINT
(RH-C) PIPE BREAK

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UPDATED SAFETY ANALYSIS REPORT

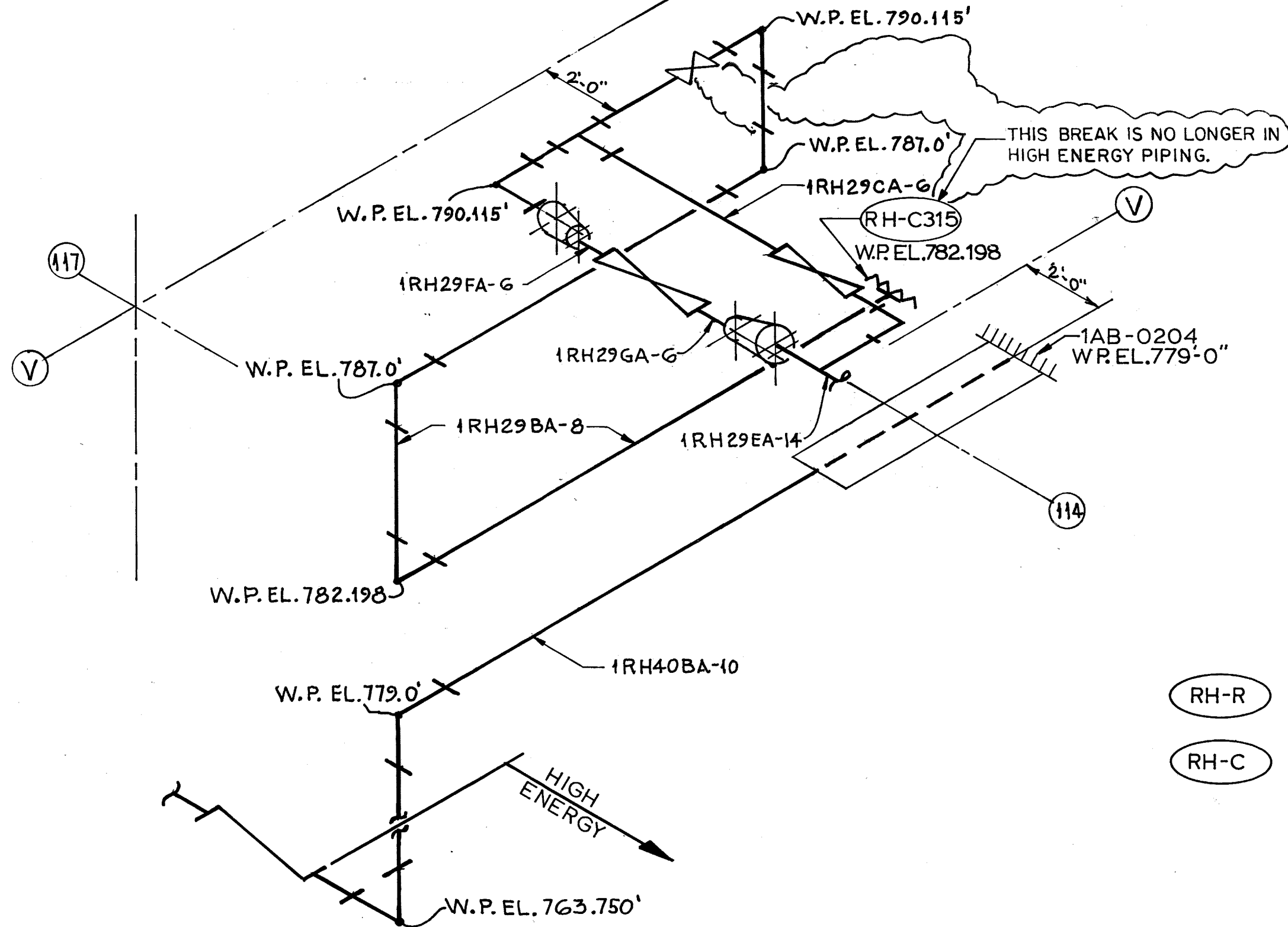
FIGURE B3.6-16
POSTULATED BREAKS AND RESTRAINT
LOCATIONS RHR SUBSYSTEM
RH-05 INSIDE CONTAINMENT



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE B3.6-17
POSTULATED BREAKS AND RESTRAINT
LOCATIONS RHR SUBSYSTEM
RH-34 INSIDE CONTAINMENT

NORTH

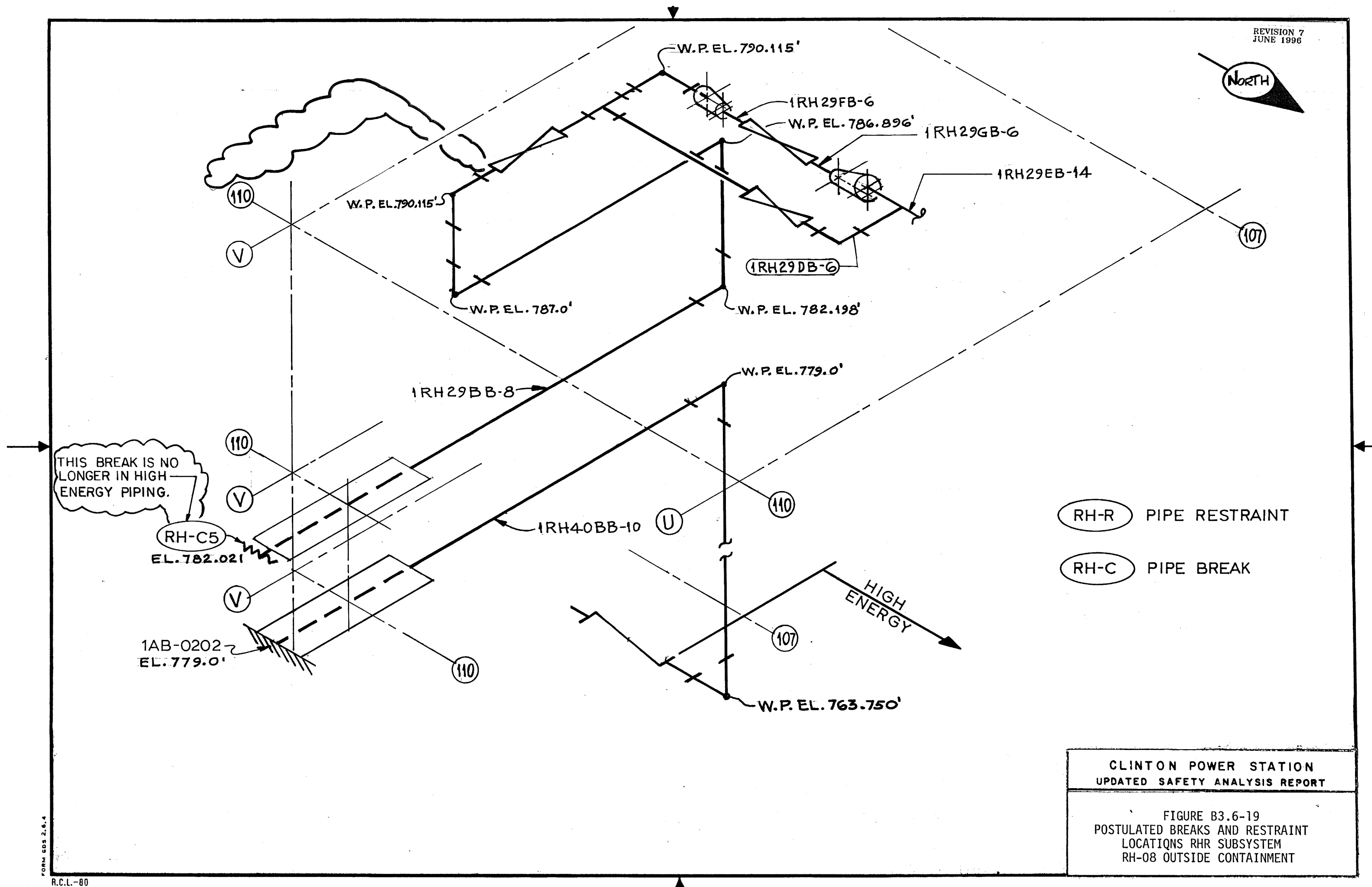


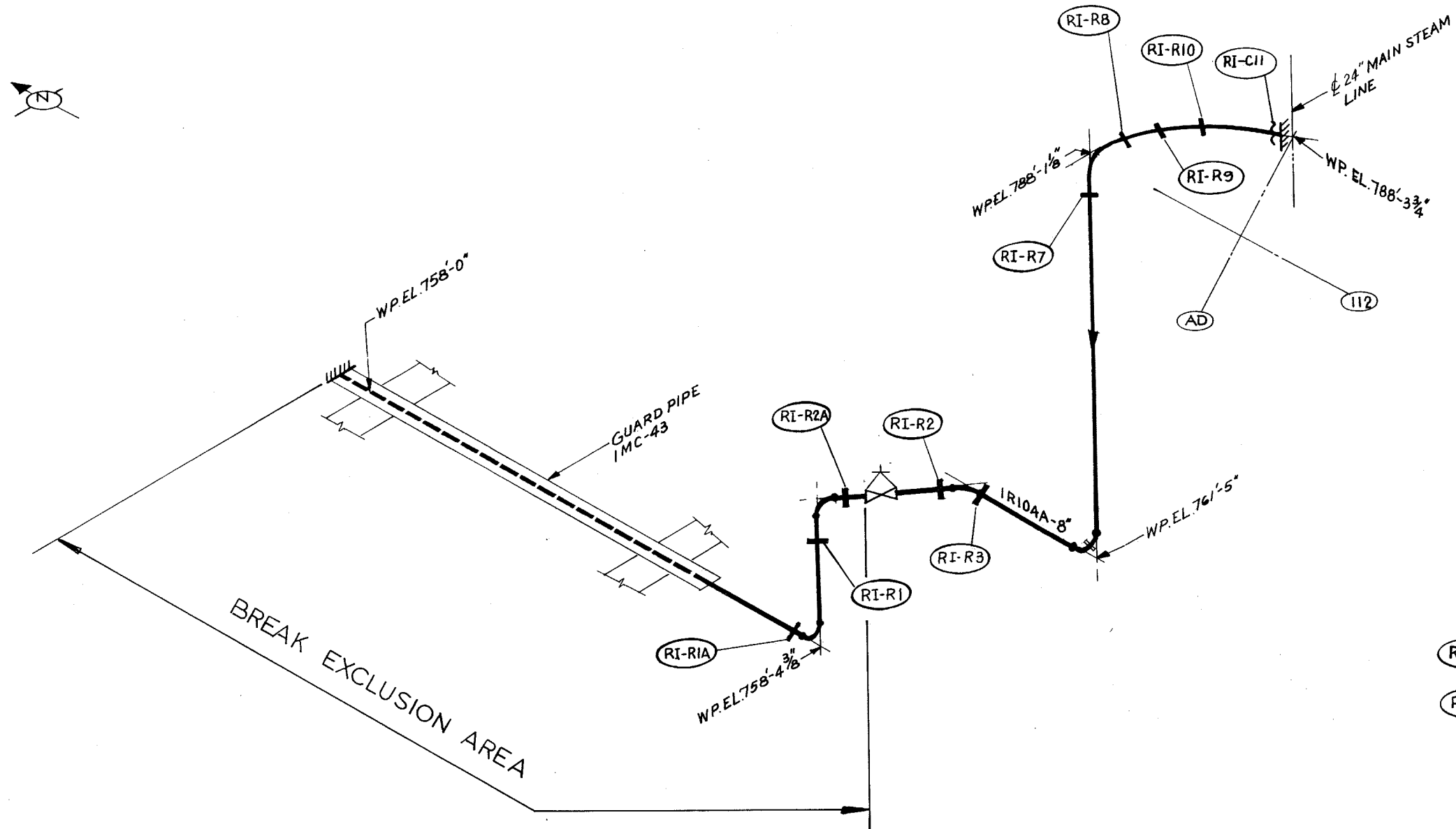
- RH-R PIPE RESTRAINT
- RH-C PIPE BREAK

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE B3.6-18
POSTULATED BREAKS AND RESTRAINT
LOCATIONS RHR SUBSYSTEM
RH-07 OUTSIDE CONTAINMENT

NORTH





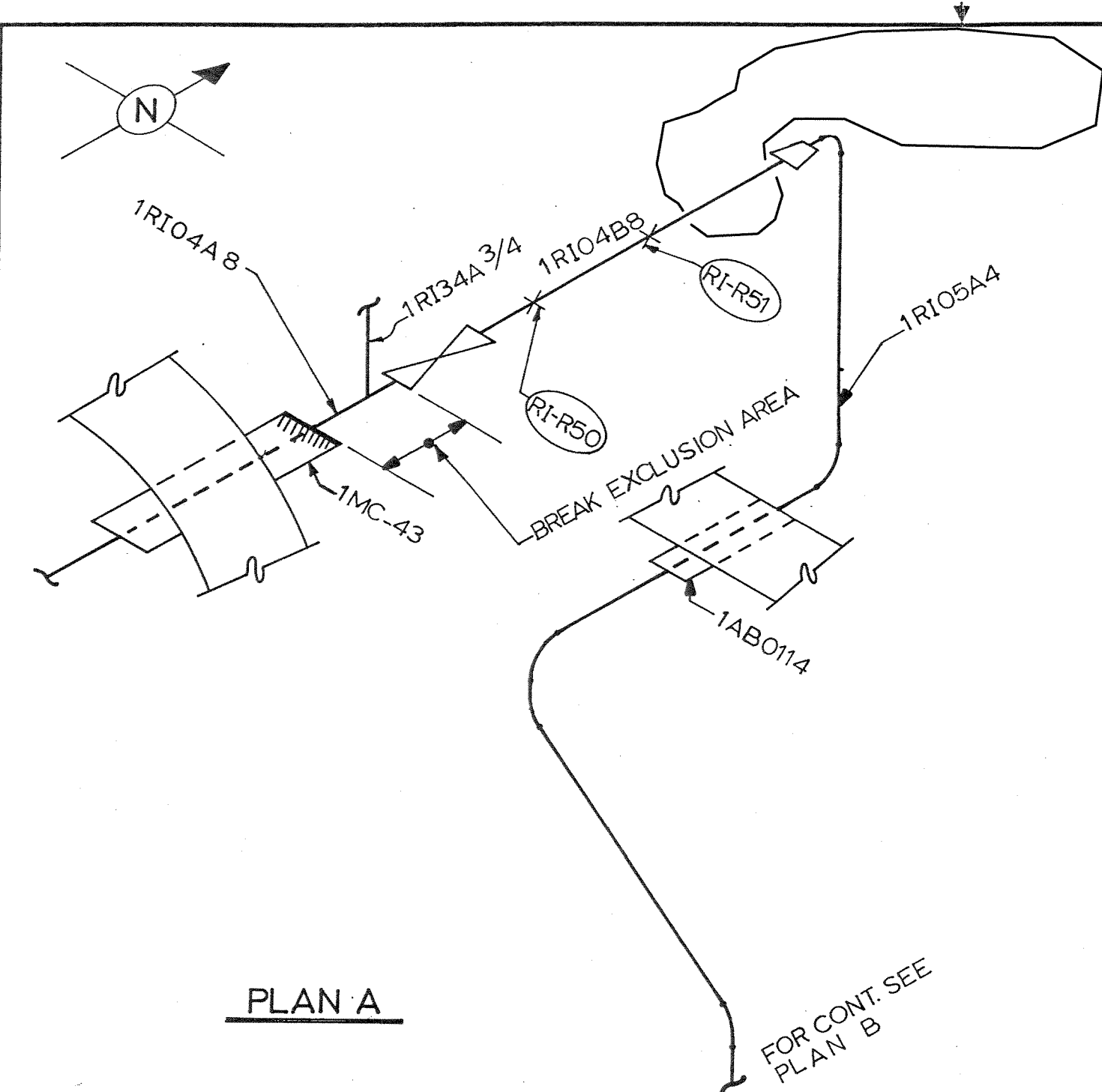
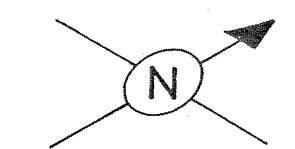
RI-R PIPE RESTRAINT

RI-C PIPE BREAK

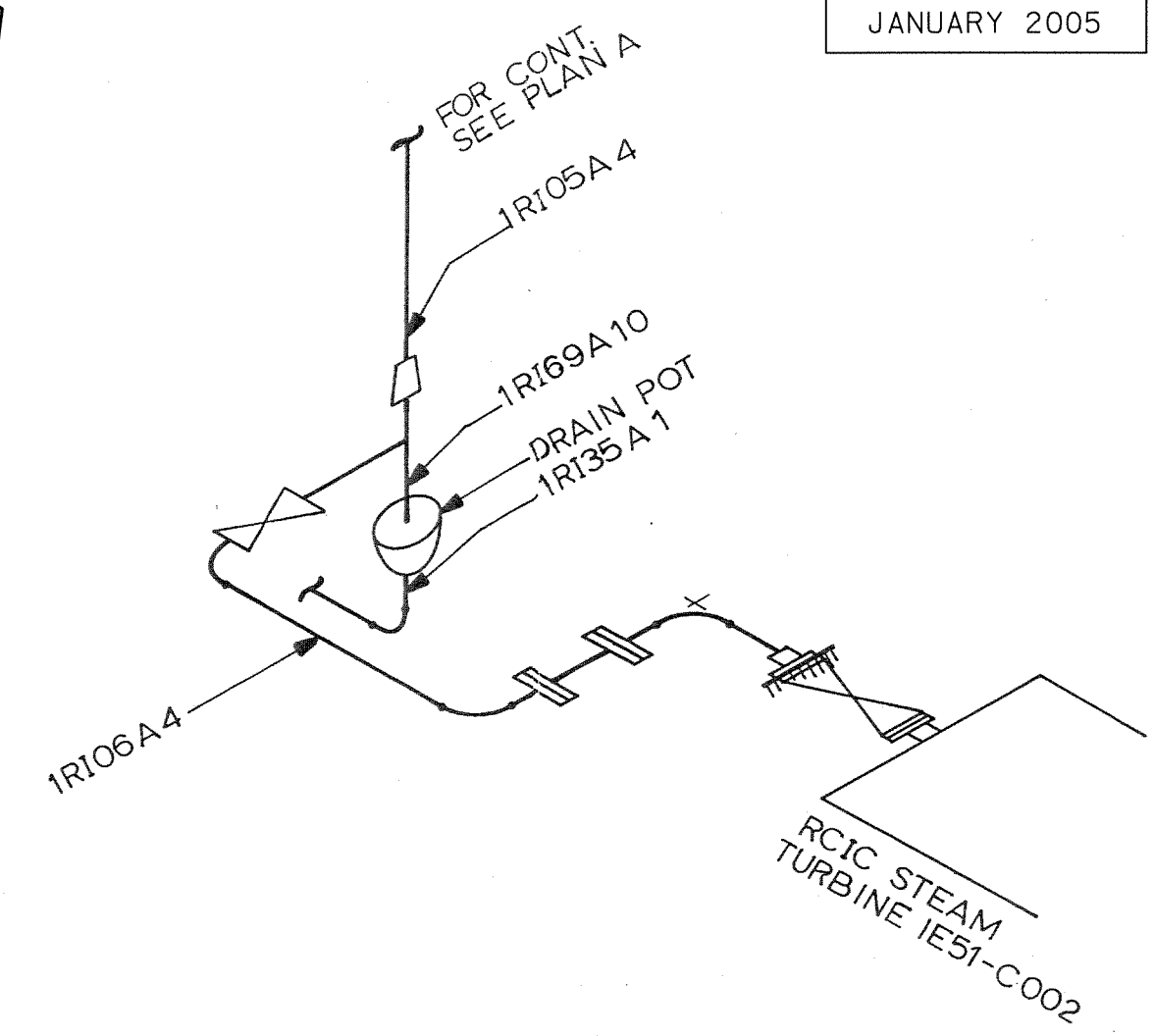
CLINTON POWER STATION
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FIGURE B3.6-20
POSTULATED BREAKS AND RESTRAINT
LOCATIONS RCIC SUBSYSTEM
RI-01 INSIDE CONTAINMENT

REVISION 11
JANUARY 2005



PLAN A



PLAN B

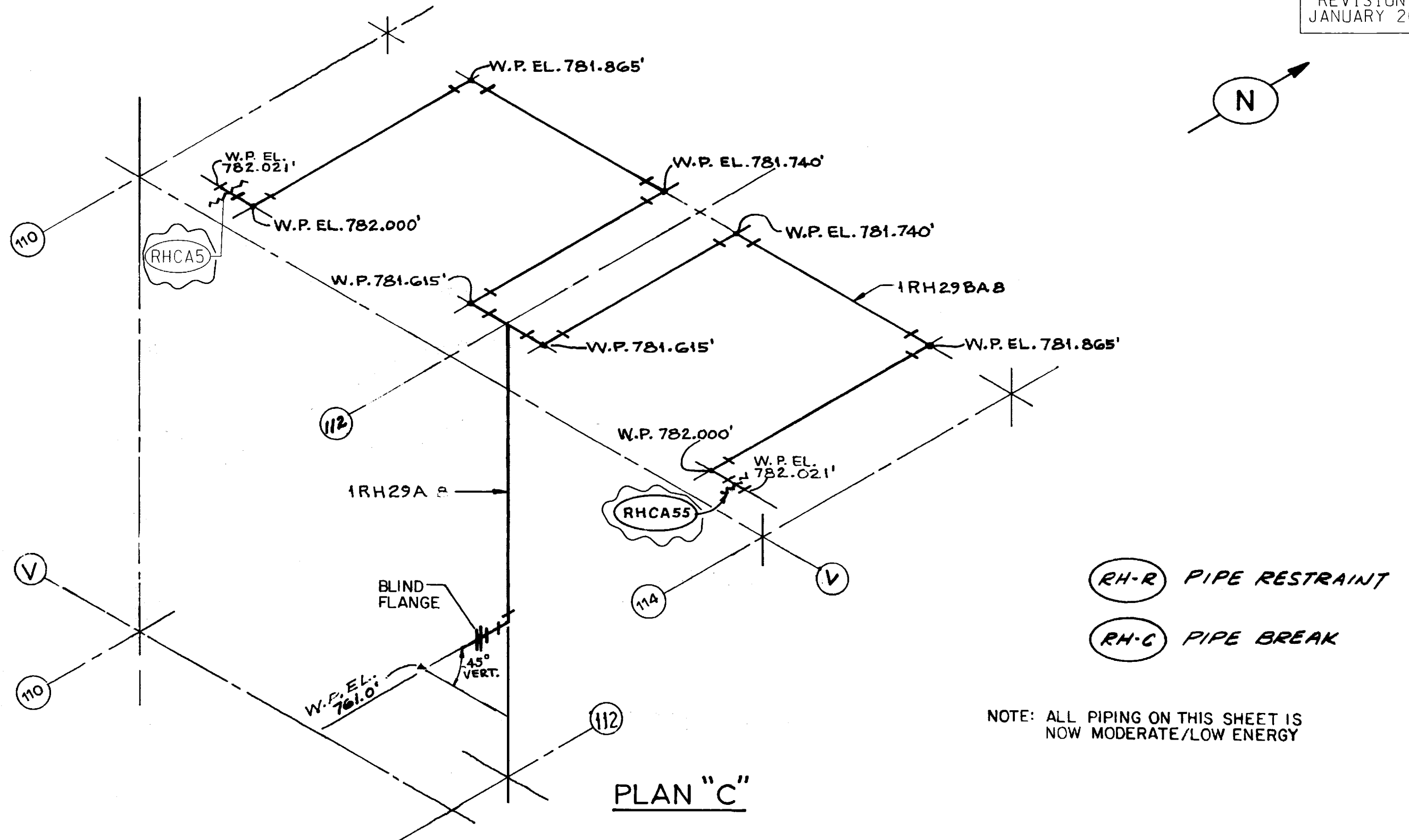
- (RI-R) PIPE RESTRAINT
- (RI-C) PIPE BREAK

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE B3.6-21
POSTULATED BREAKS AND RESTRAINT
LOCATIONS RCIC SUBSYSTEM
RI-02/RH-14 OUTSIDE CONTAINMENT
(SHEET 1 OF 2)

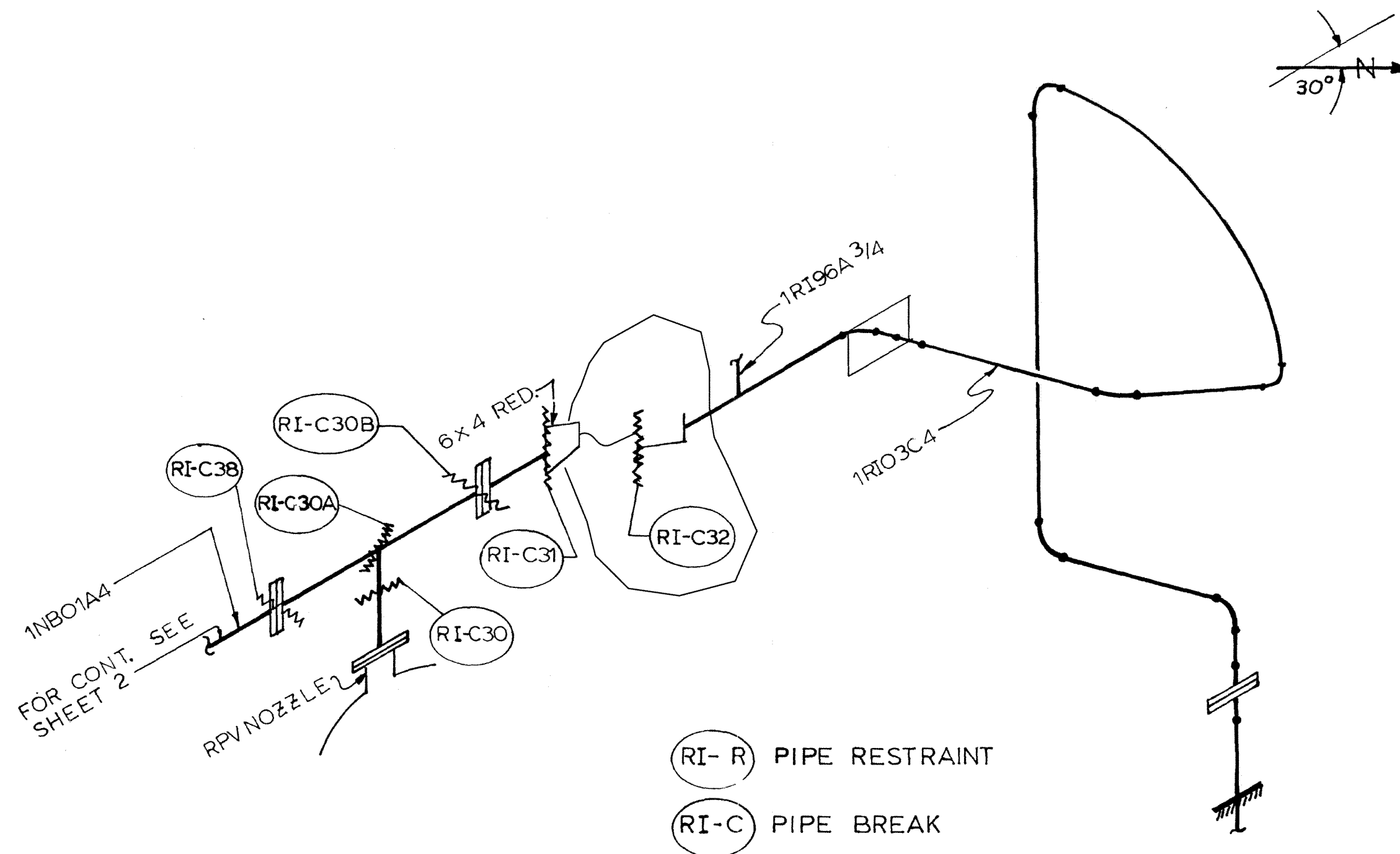
FORM 309 2-4-4

R.C.I.-80



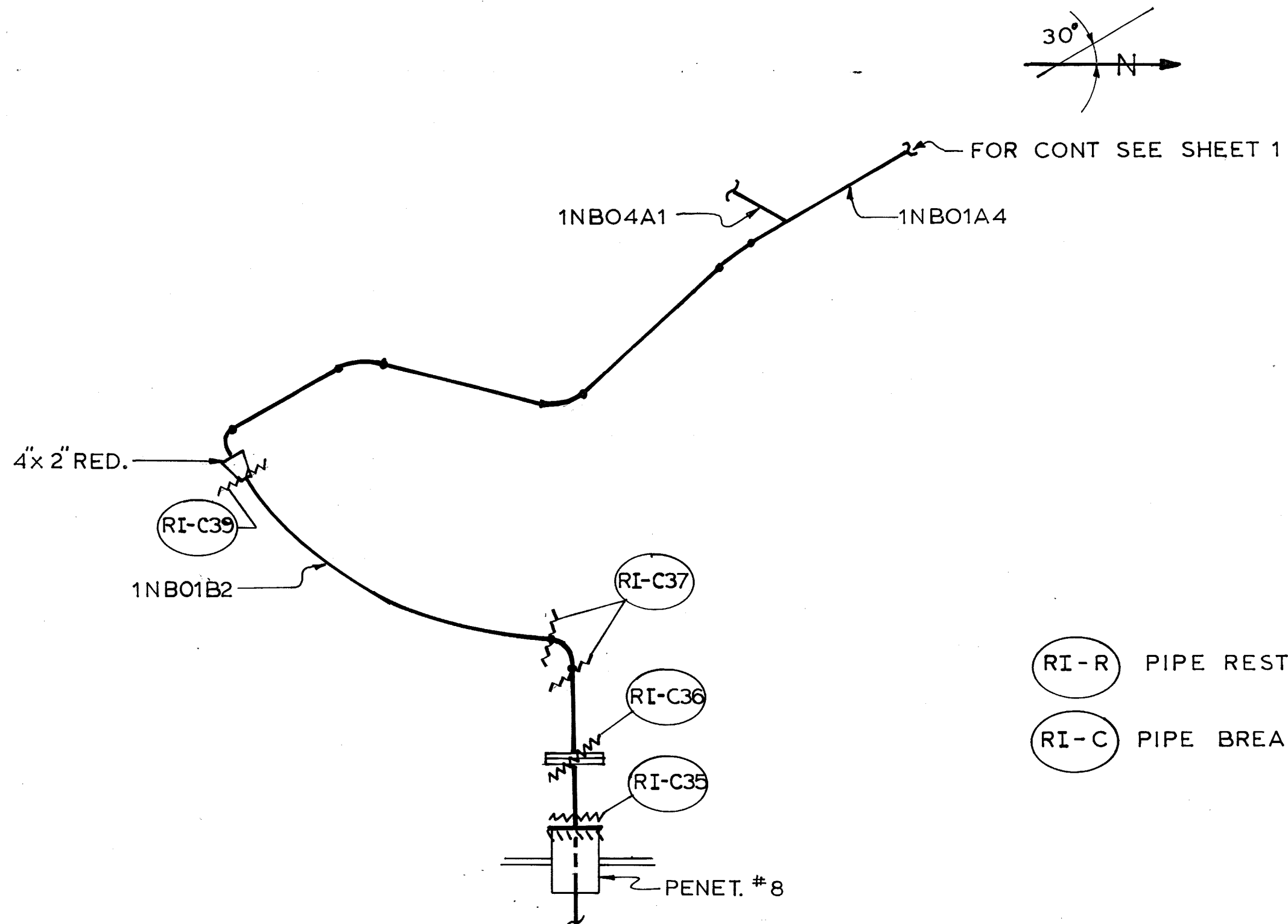
CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE B3.6-21
POSTULATED BREAKS AND RESTRAINT
LOCATIONS RCIC SUBSYSTEM
RI-02/RH-14 OUTSIDE CONTAINMENT
(SHEET 2 OF 2)

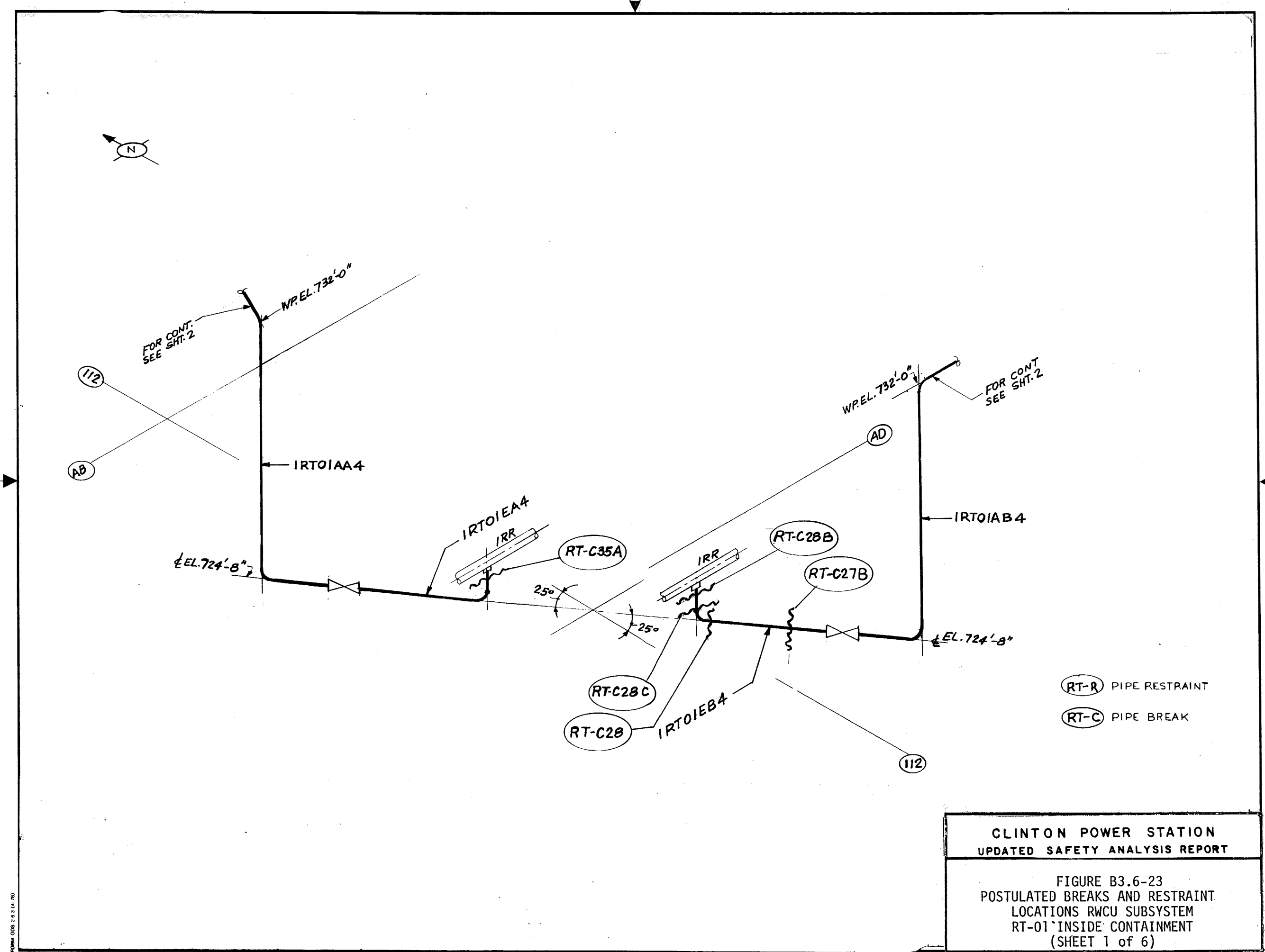


CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE B3.6-22
POSTULATED BREAKS AND RESTRAINT
LOCATIONS RCIC HEAD SPRAY
SUBSYSTEM RI-11 INSIDE CONTAINMENT
SHEET 1 OF 2

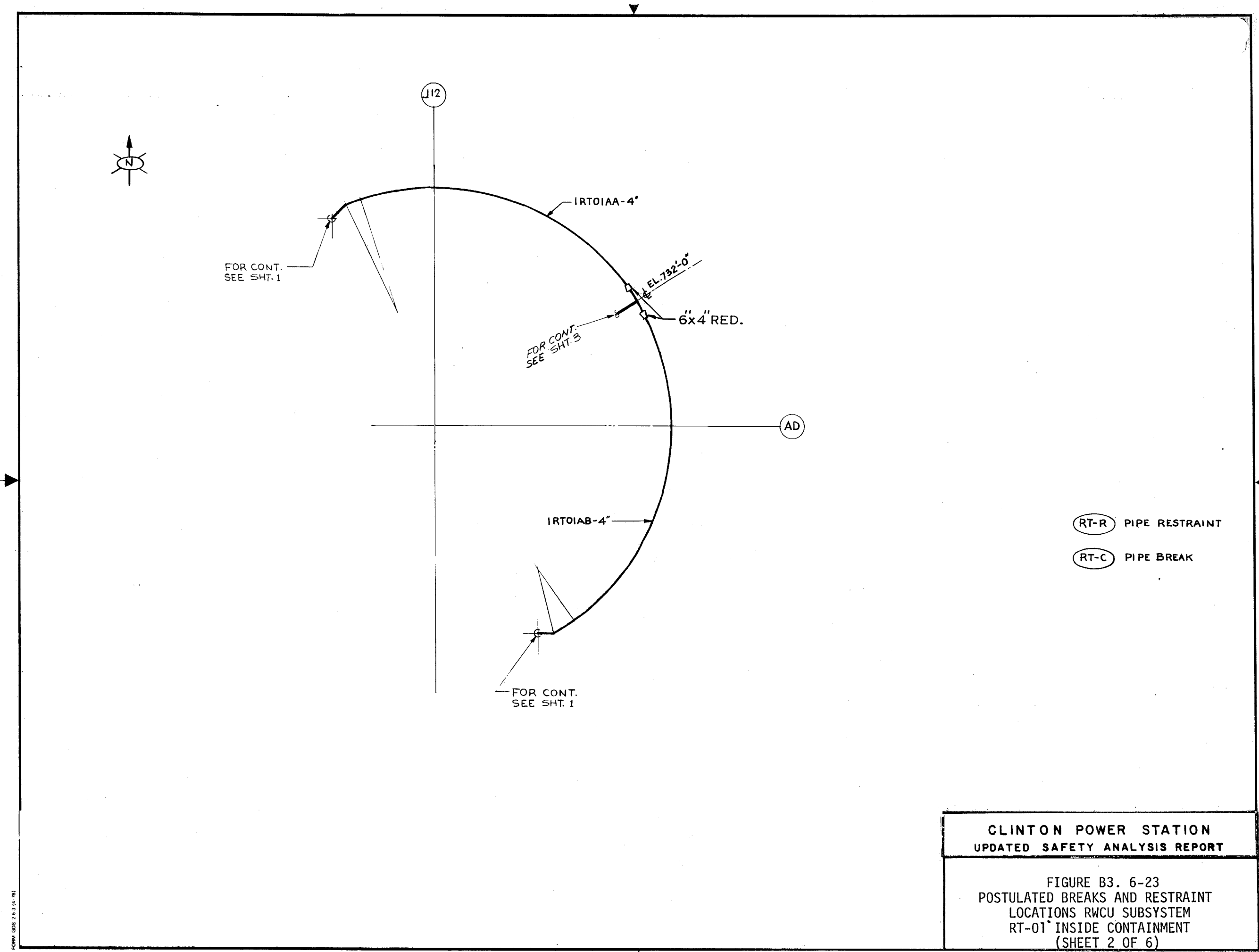


CLINTON POWER STATION
 UPDATED SAFETY ANALYSIS REPORT
 FIGURE B3.6-22
 POSTULATED BREAKS AND RESTRAINT
 LOCATIONS RCIC HEAD SPRAY
 SUBSYSTEM RI-11 INSIDE CONTAINMENT
 (SHEET 2 OF 2)

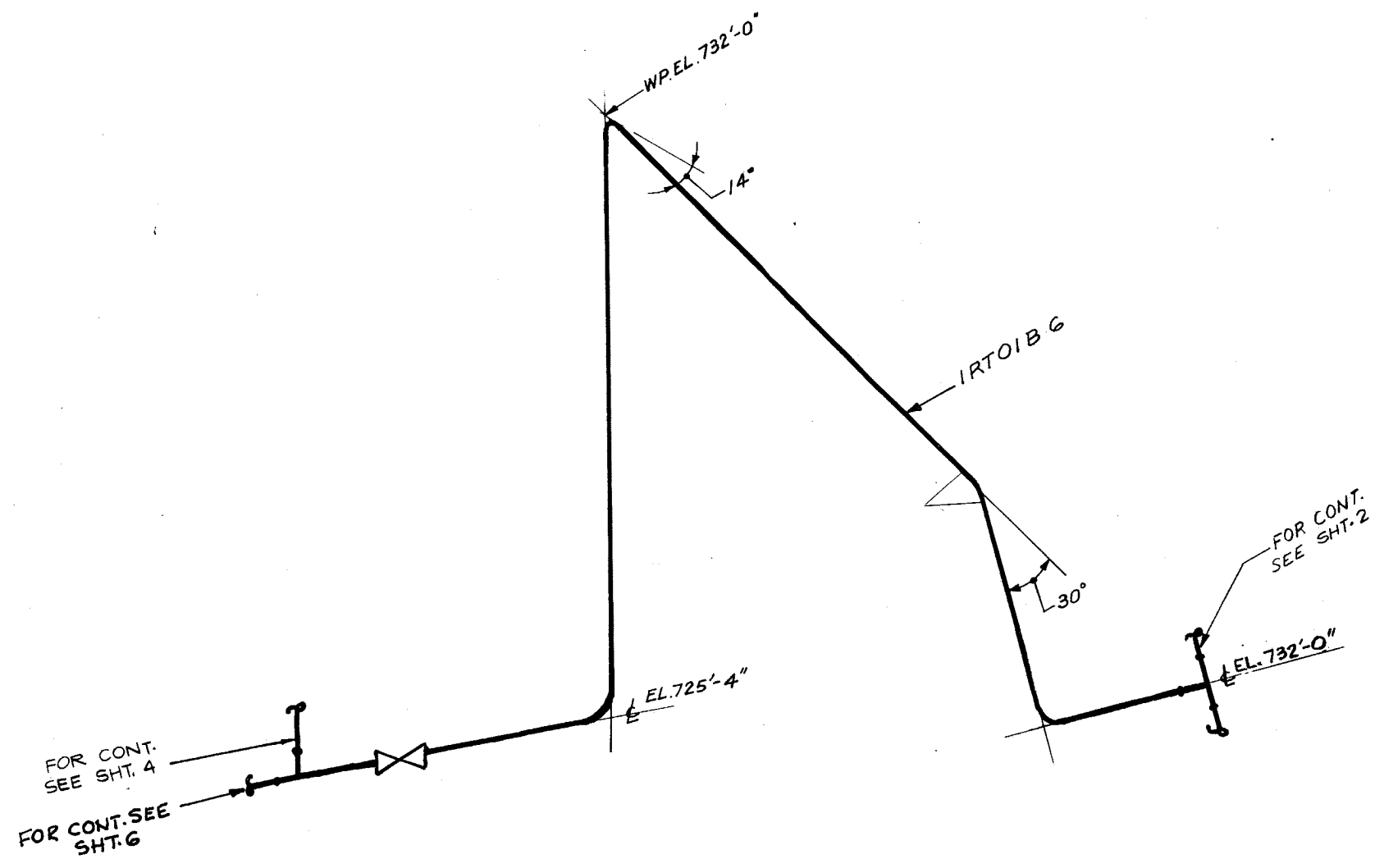


CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE B3.6-23
POSTULATED BREAKS AND RESTRAINT
LOCATIONS RWCU SUBSYSTEM
RT-01 INSIDE CONTAINMENT
(SHEET 1 of 6)



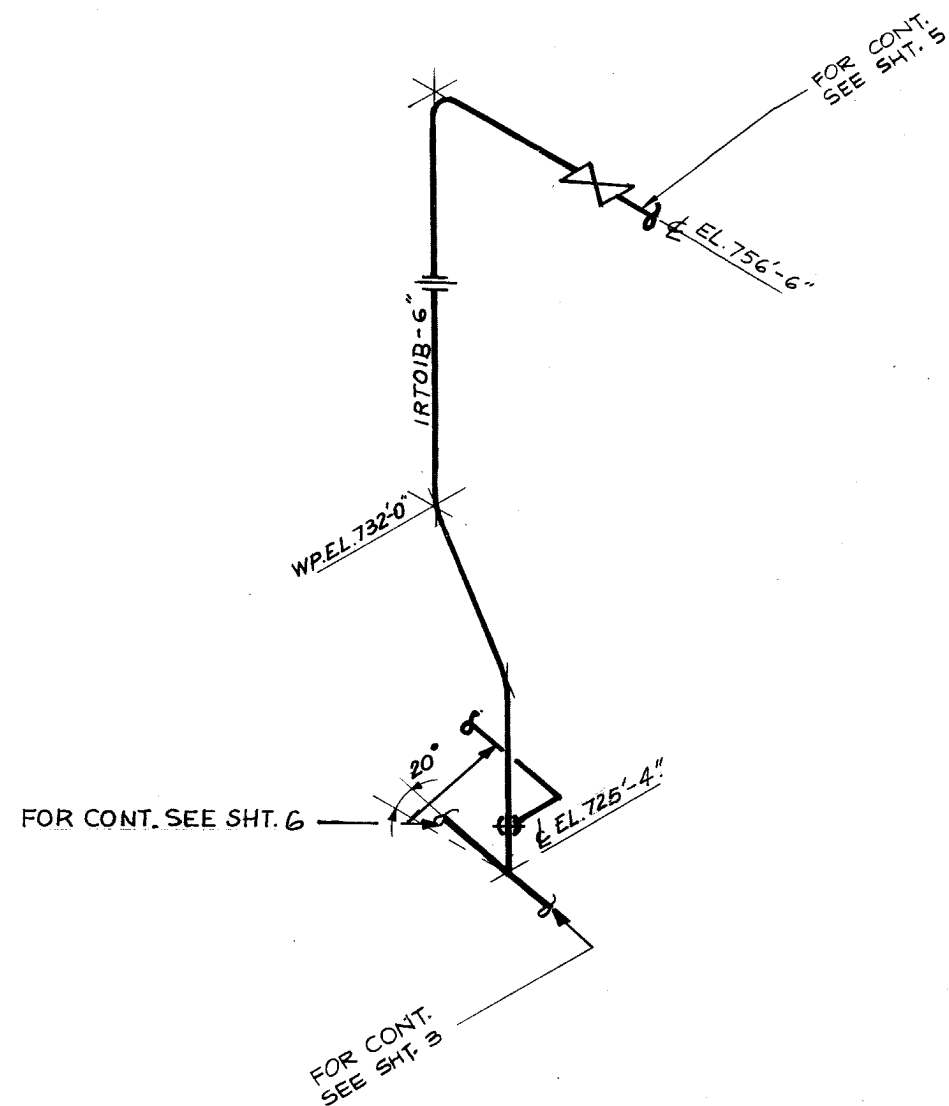
CLINTON POWER STATION UPDATED SAFETY ANALYSIS REPORT
FIGURE B3. 6-23 POSTULATED BREAKS AND RESTRAINT LOCATIONS RCU SUBSYSTEM RT-01 INSIDE CONTAINMENT (SHEET 2 OF 6)



- RT-R PIPE RESTRAINT
- RT-C PIPE BREAK

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

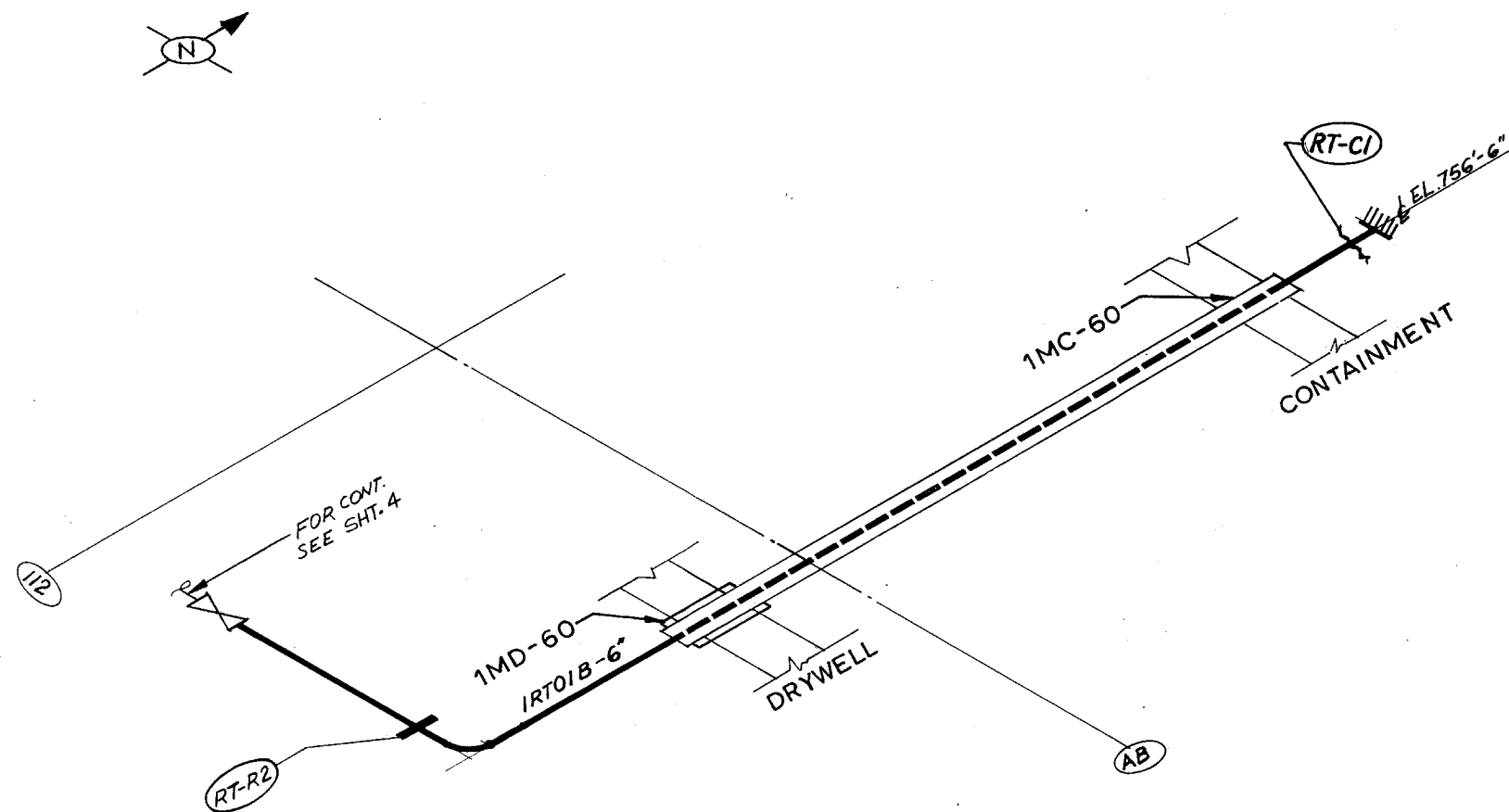
FIGURE B3.6-23
POSTULATED BREAKS AND RESTRAINT
LOCATIONS RWC SUBSYSTEM
RT-01 INSIDE CONTAINMENT
(SHEET 3 OF 6)



- (RI-R) PIPE RESTRAINT
- (RI-C) PIPE BREAK

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE B3.6-23
POSTULATED BREAKS AND RESTRAINT
LOCATIONS RWCU SUBSYSTEM
RT-01 INSIDE CONTAINMENT
(SHEET 4 OF 6)



RT-R PIPE RESTRAINT
RT-C PIPE BREAK

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE B3.6-23
POSTULATED BREAKS AND RESTRAINT
LOCATIONS RWCU SUBSYSTEM
RT-01 INSIDE CONTAINMENT
(SHEET 5 OF 6)

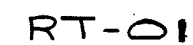
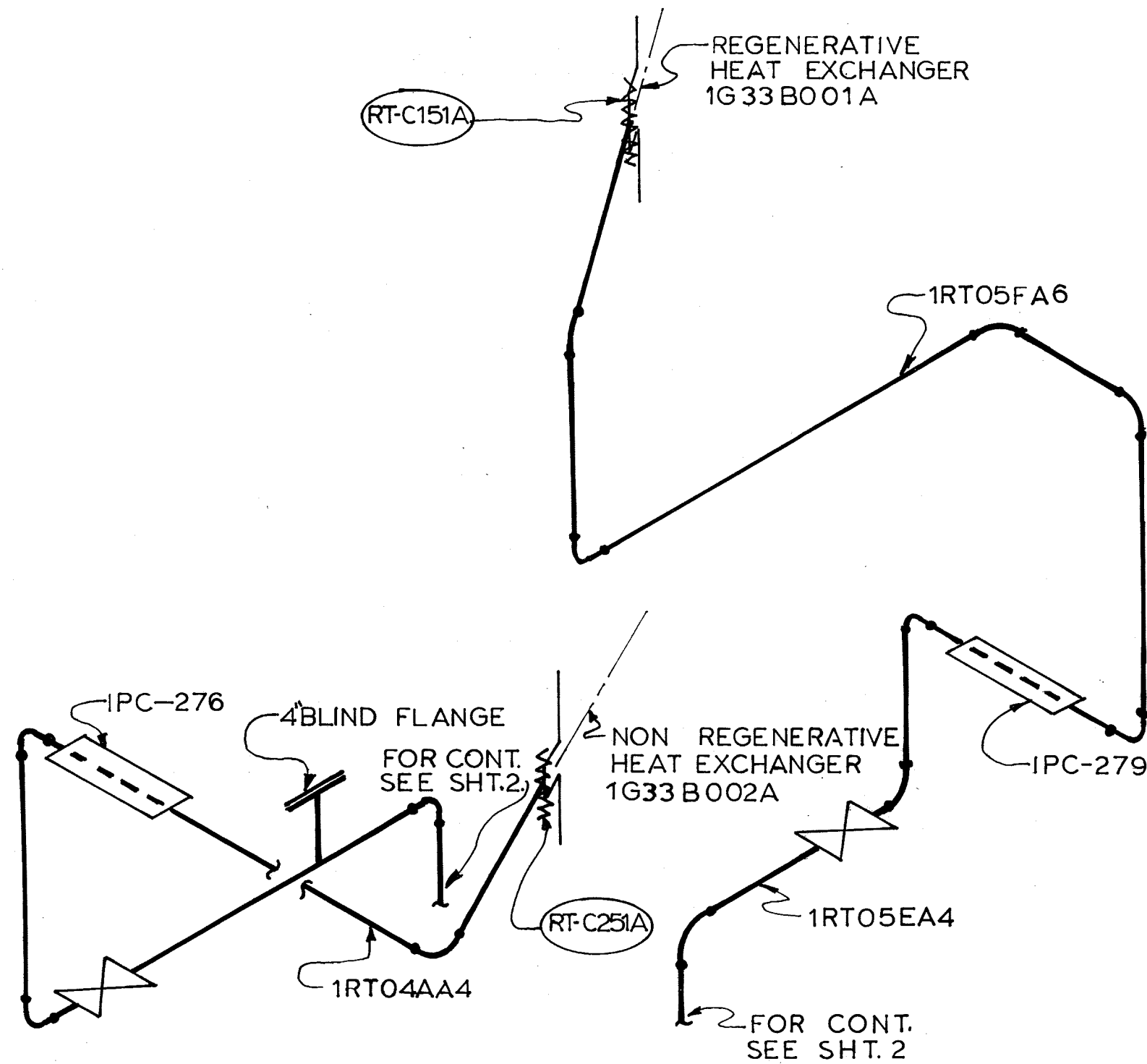


FIGURE B3.6-23
POSTULATED BREAKS AND RESTRAINT
LOCATIONS RWCU SUBSYSTEM
RT-01 INSIDE CONTAINMENT
(SHEET 6 OF 6)

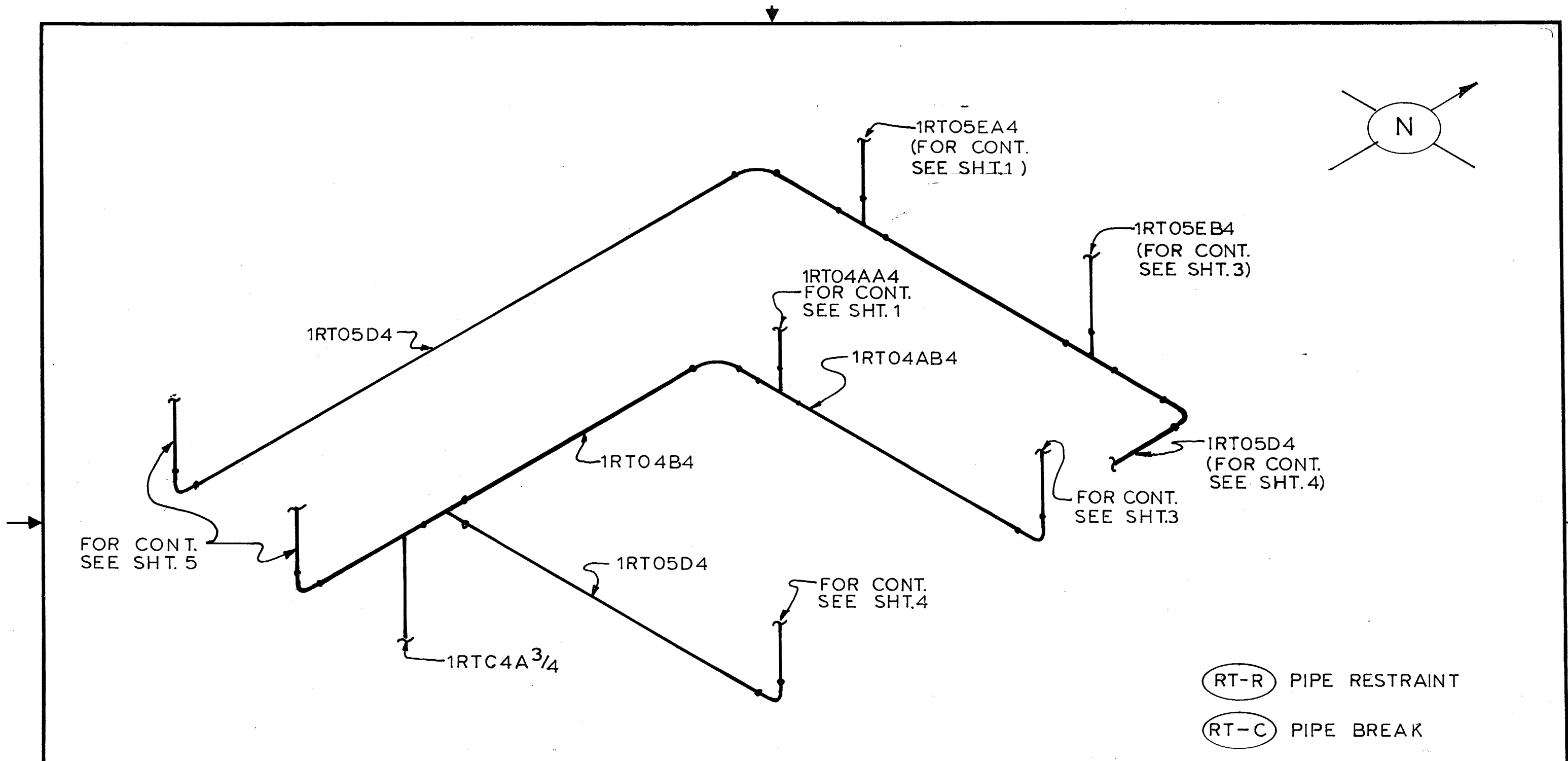


RT-R PIPE RESTRAINT

RT-C PIPE BREAK

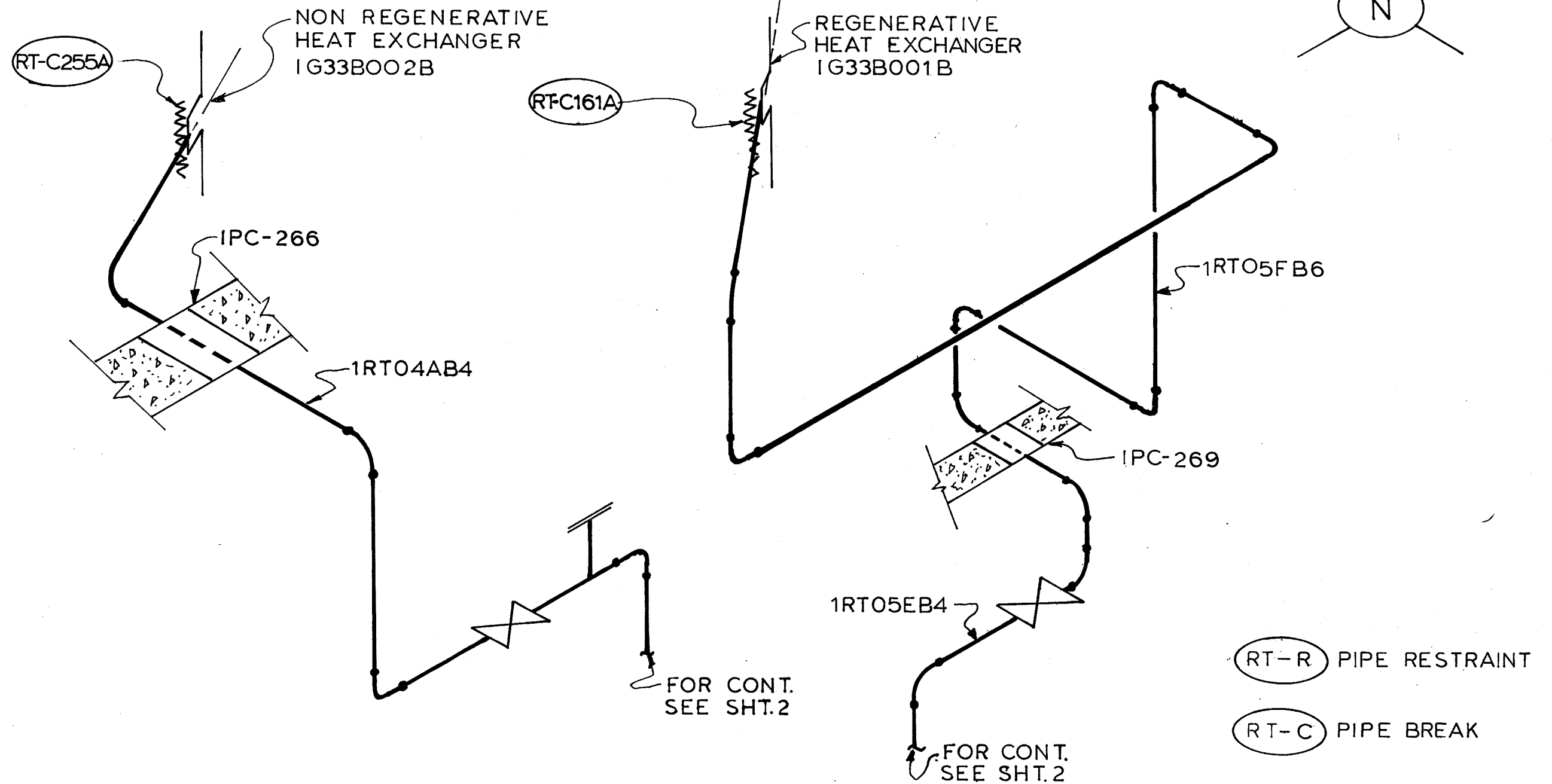
CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE B3.6-24
POSTULATED BREAKS AND RESTRAINT
LOCATIONS RCU SUBSYSTEM
RT-02 INSIDE CONTAINMENT
(SHEET 1 OF 5)



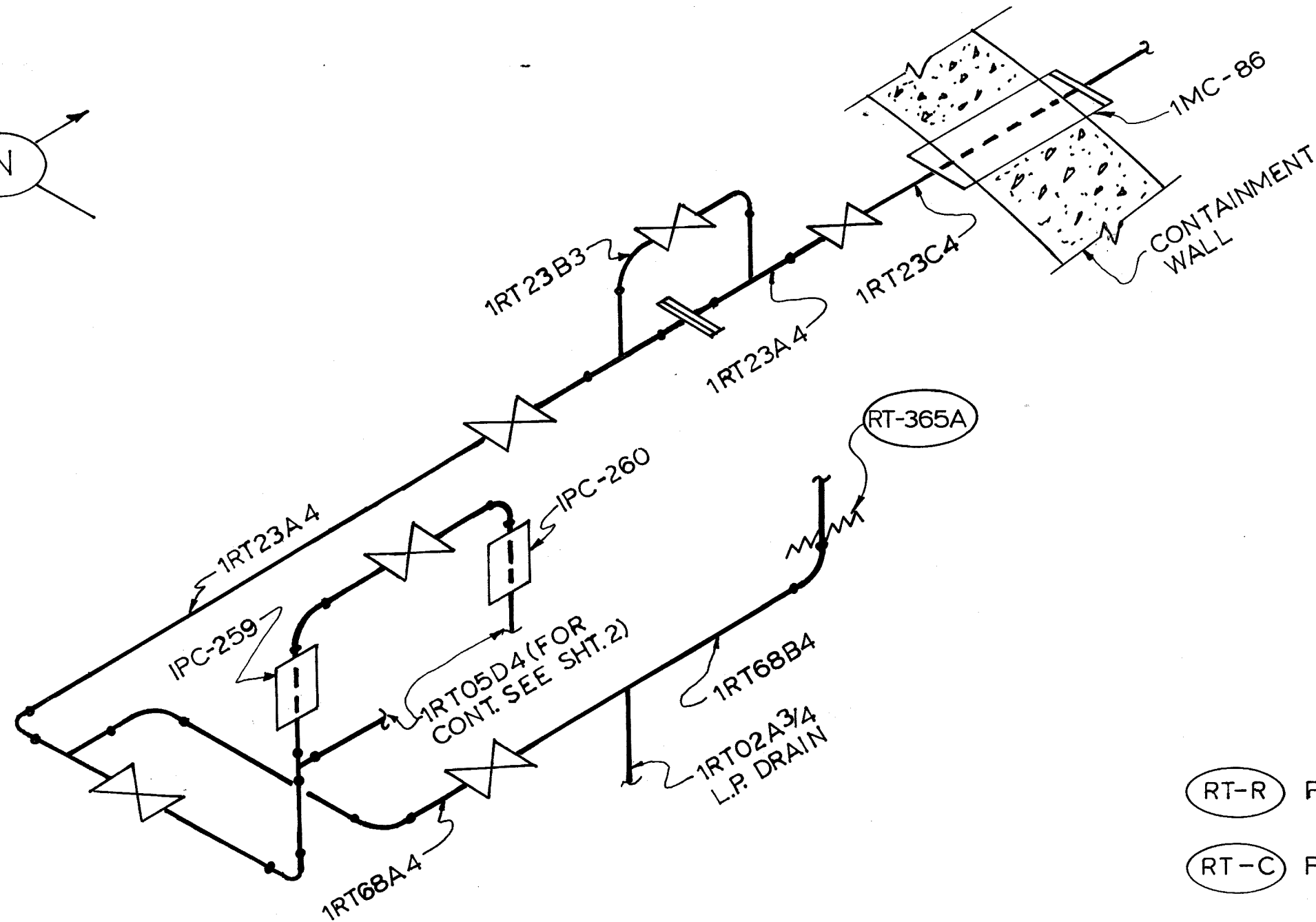
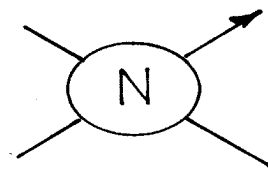
- (RT-R) PIPE RESTRAINT
- (RT-C) PIPE BREAK

<p>CLINTON POWER STATION UPDATED SAFETY ANALYSIS REPORT</p>
<p>FIGURE B3.6-24 POSTULATED BREAKS AND RESTRAINT LOCATIONS RCU SUBSYSTEM RT-02 INSIDE CONTAINMENT (SHEET 2 OF 5)</p>



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE B3.6-24
POSTULATED BREAKS AND RESTRAINT
LOCATIONS RCU SUBSYSTEM
RT-02 INSIDE CONTAINMENT
(SHEET 3 OF 5)

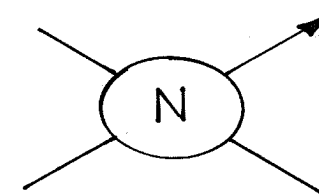


RT-R PIPE RESTRAINT

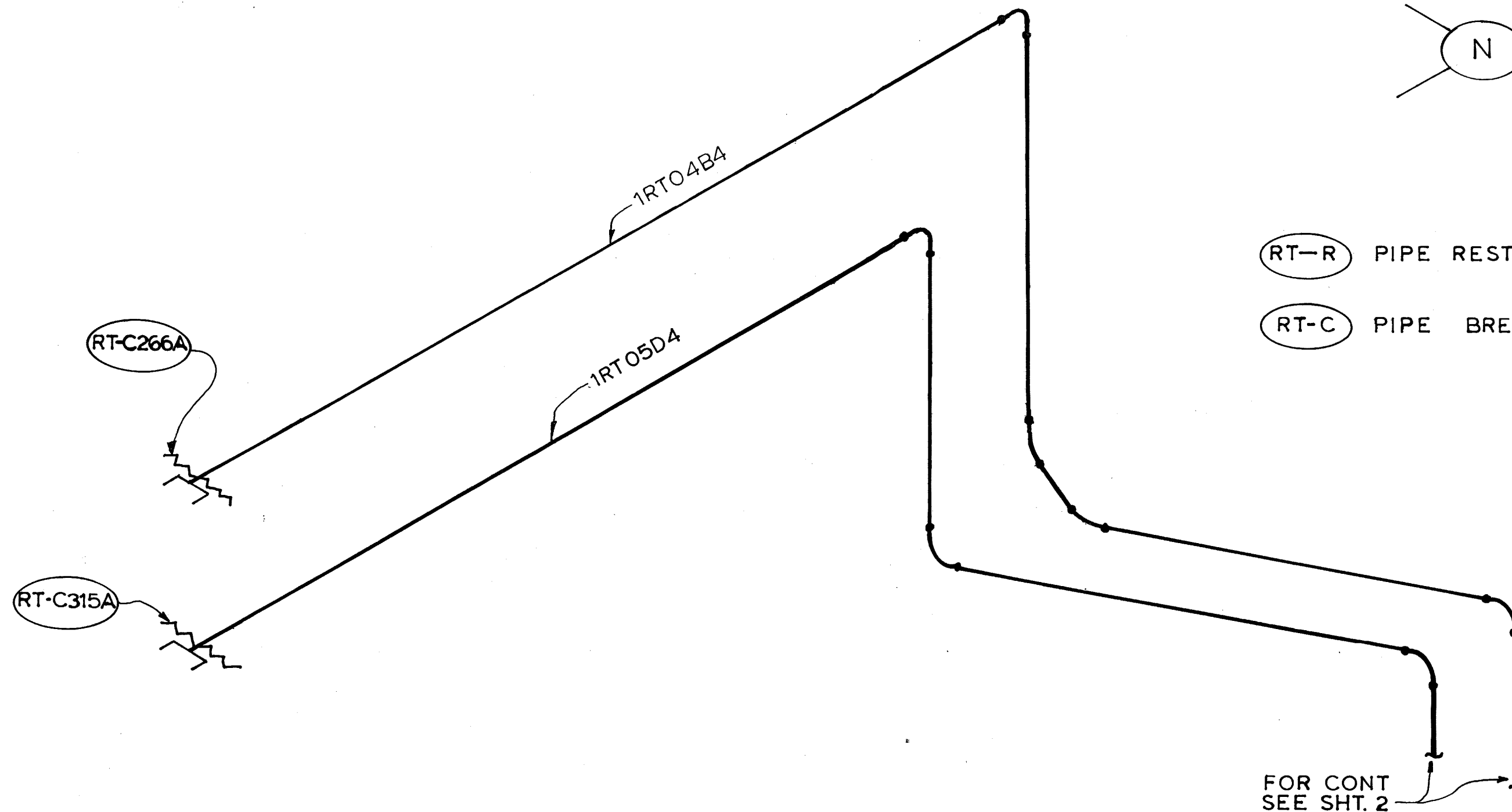
RT-C PIPE BREAK

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE B3.6-24
POSTULATED BREAKS AND RESTRAINT
LOCATIONS RCU SUBSYSTEM
RT-02 INSIDE CONTAINMENT
(SHEET 4 OF 5)

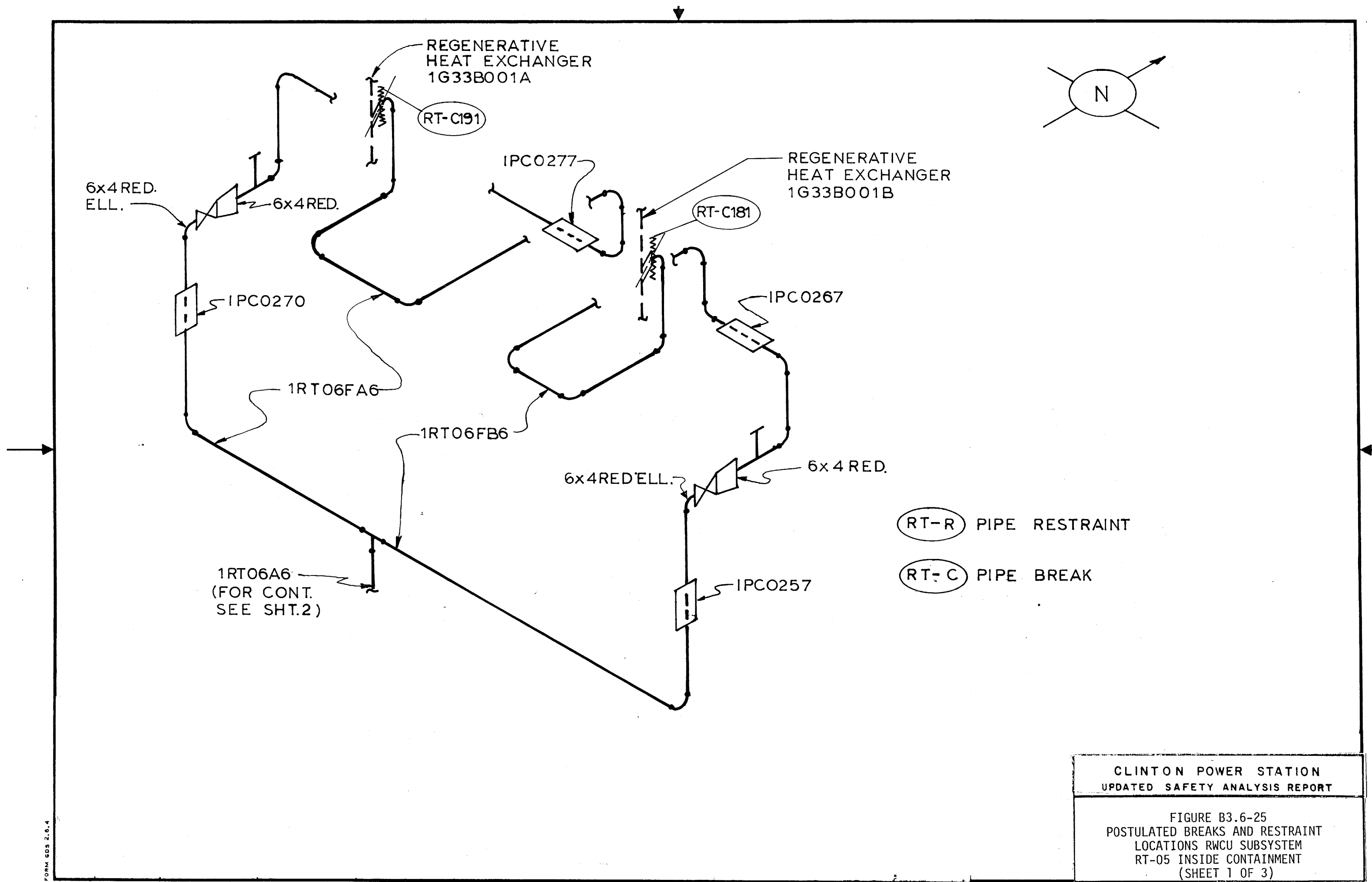


(RT-R) PIPE RESTRAINT
(RT-C) PIPE BREAK



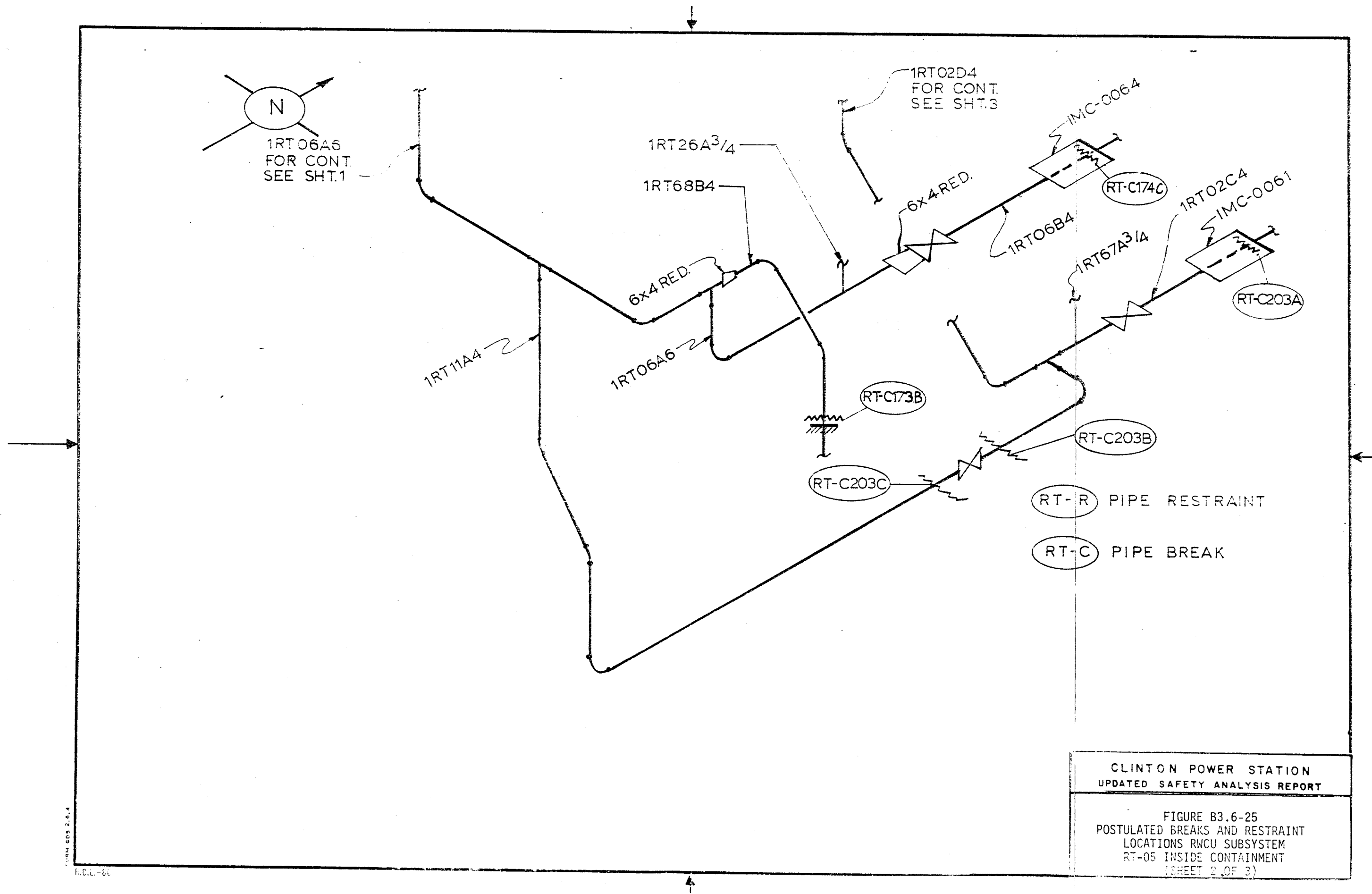
CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

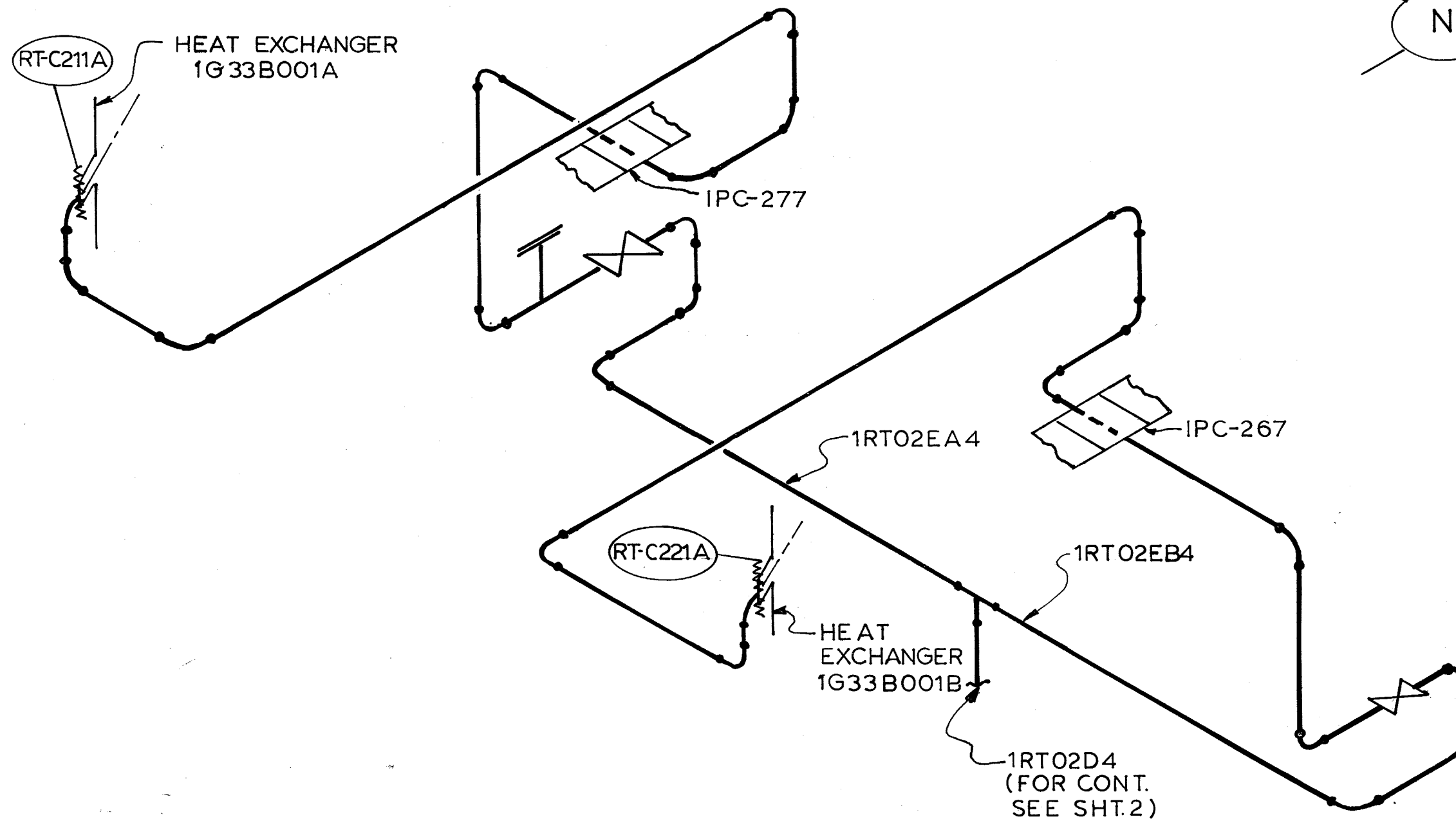
FIGURE B3.6-24
POSTULATED BREAKS AND RESTRAINT
LOCATIONS RWCU SUBSYSTEM
RT-02 INSIDE CONTAINMENT
(SHEET 5 OF 5)



CLINTON POWER STATION
 UPDATED SAFETY ANALYSIS REPORT

FIGURE B3.6-25
 POSTULATED BREAKS AND RESTRAINT
 LOCATIONS RWCU SUBSYSTEM
 RT-05 INSIDE CONTAINMENT
 (SHEET 1 OF 3)



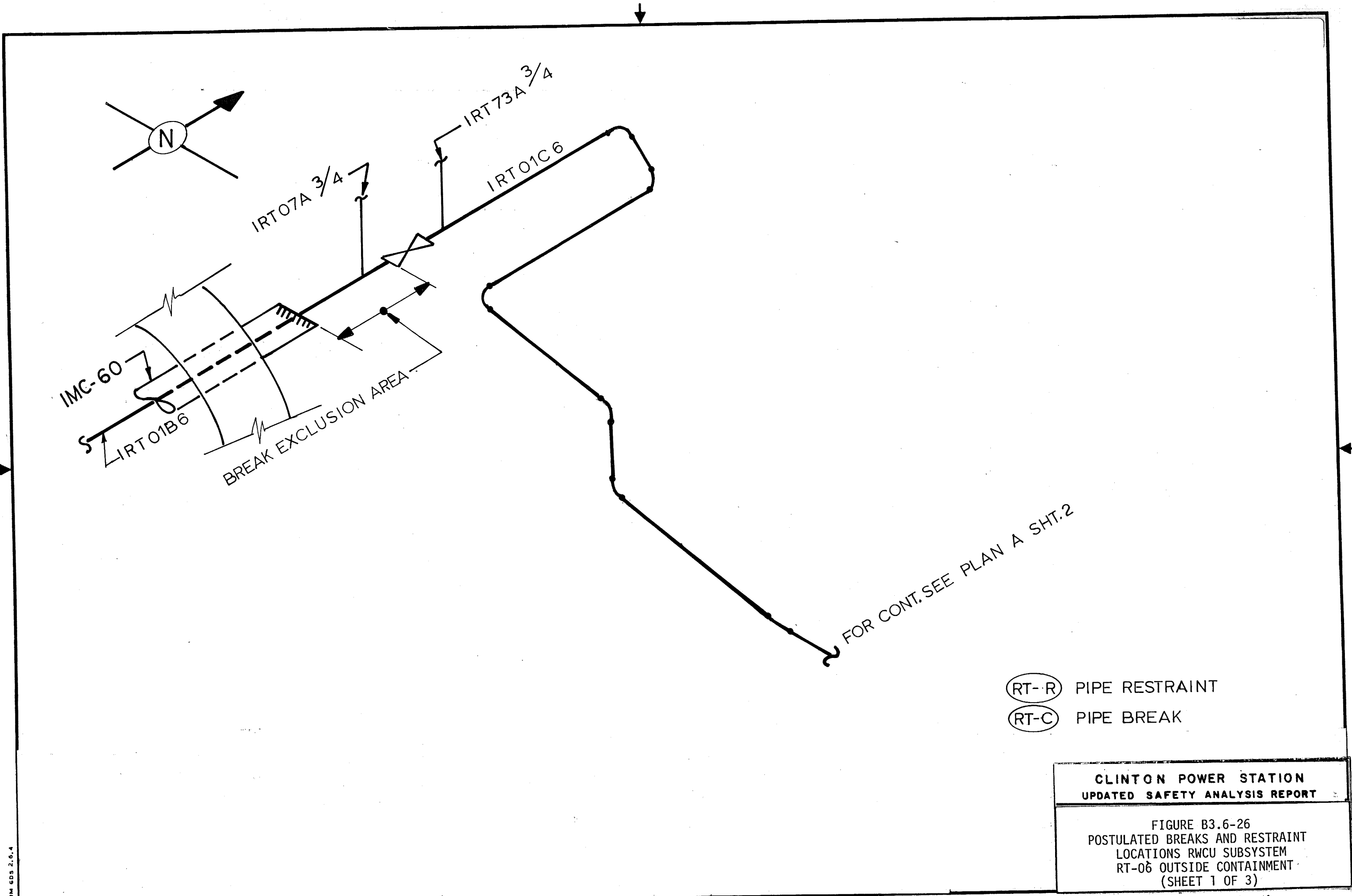


RT-R PIPE RESTRAINT

RT-C PIPE BREAK

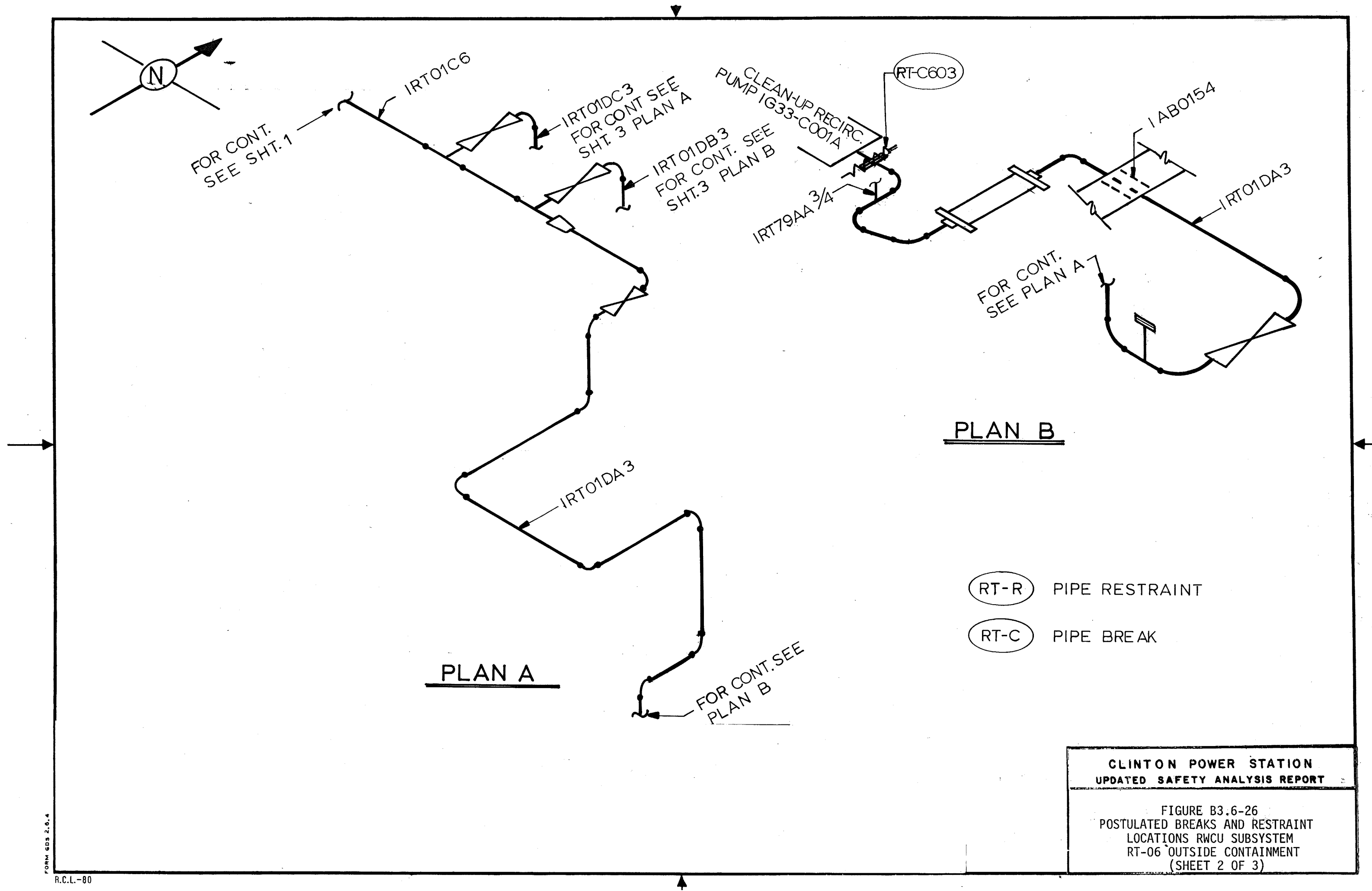
CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

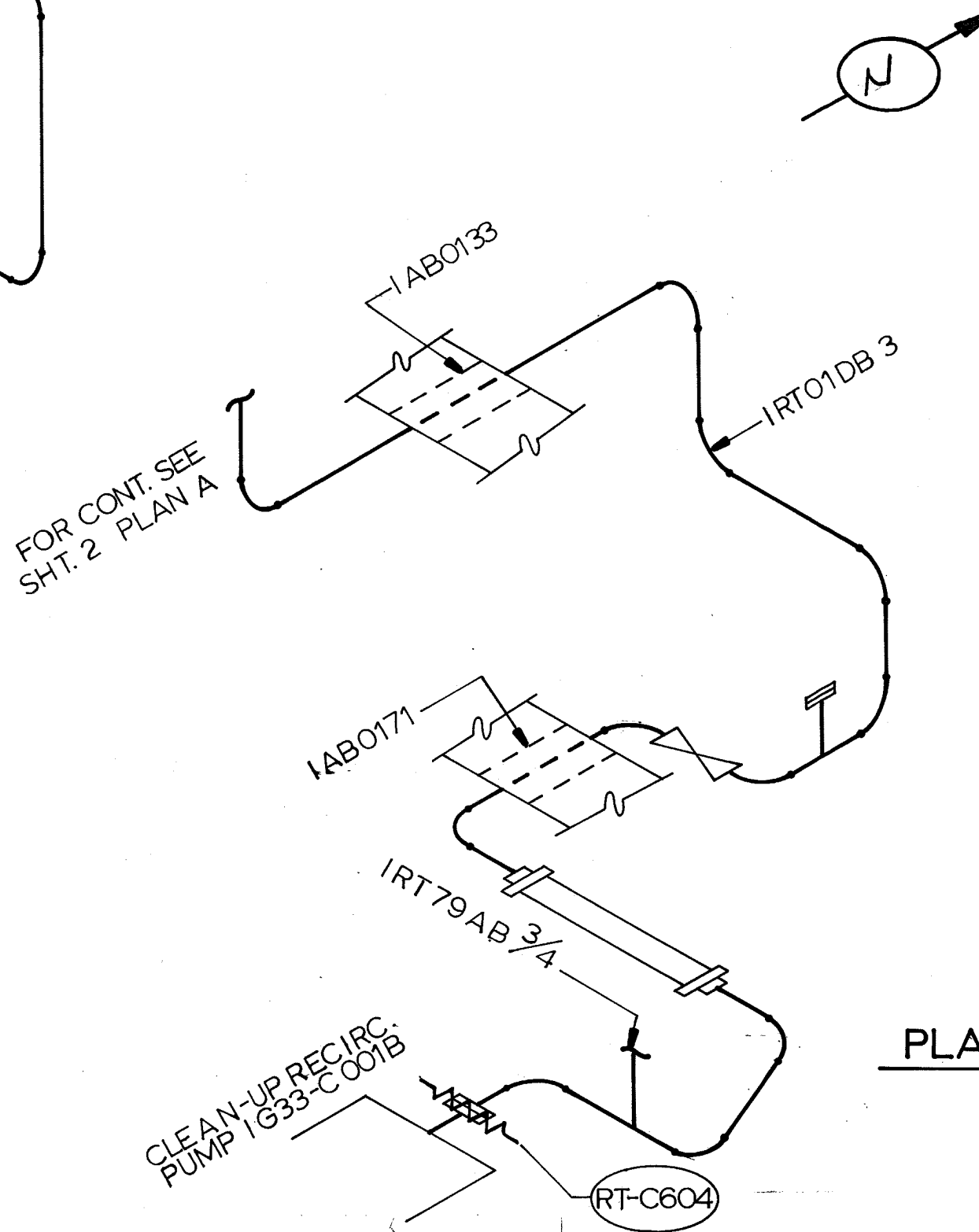
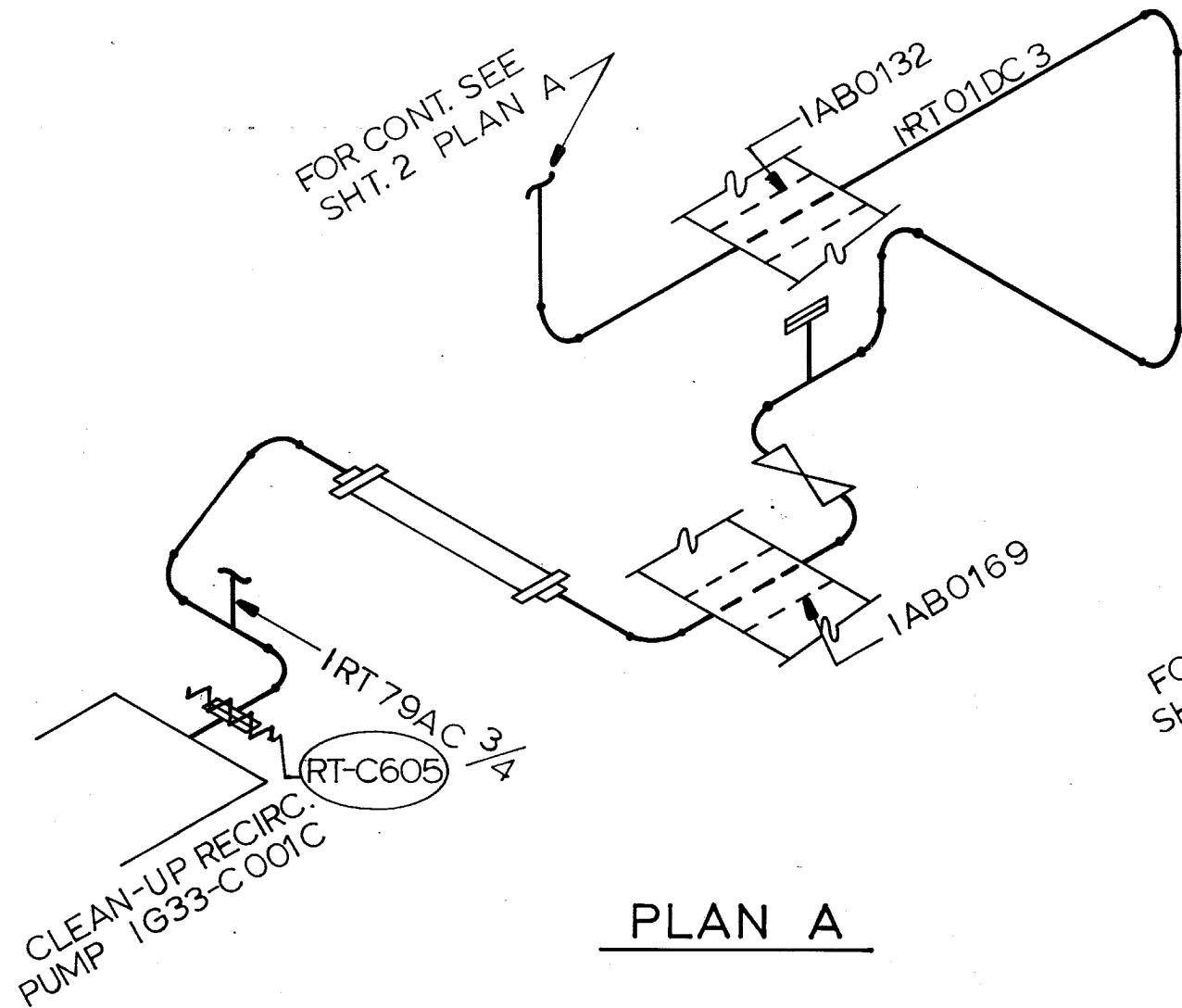
FIGURE B3.6-25
POSTULATED BREAKS AND RESTRAINT
LOCATIONS RWCU SUBSYSTEM
RT-05 INSIDE CONTAINMENT
(SHEET 3 OF 3)



- (RT-R) PIPE RESTRAINT
- (RT-C) PIPE BREAK

<p>CLINTON POWER STATION UPDATED SAFETY ANALYSIS REPORT</p>
<p>FIGURE B3.6-26 POSTULATED BREAKS AND RESTRAINT LOCATIONS RWCU SUBSYSTEM RT-06 OUTSIDE CONTAINMENT (SHEET 1 OF 3)</p>

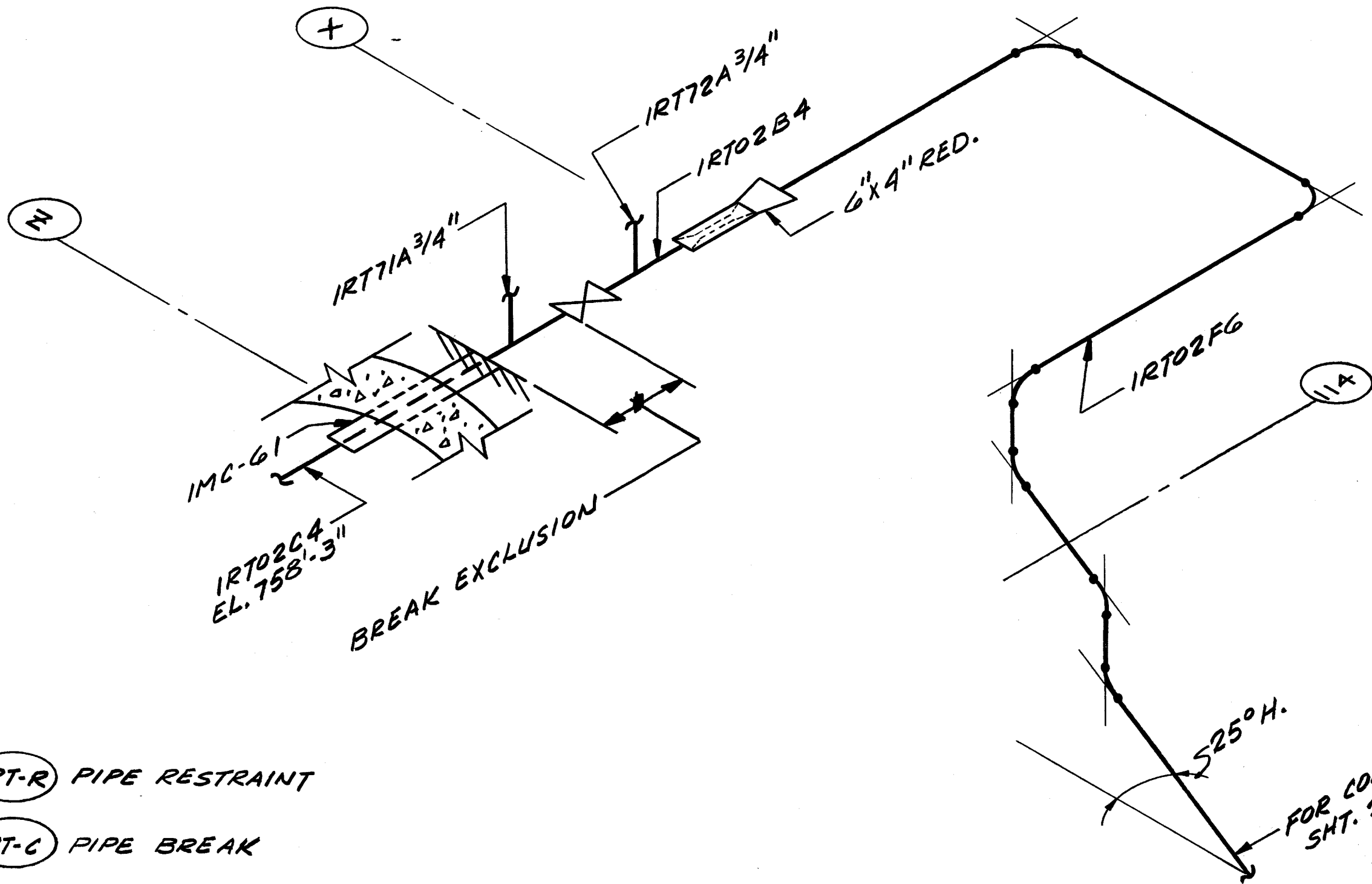




- RT-R PIPE RESTRAINT
- RT-C PIPE BREAK

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE B3.6-26
POSTULATED BREAKS AND RESTRAINT
LOCATIONS RWCU SUBSYSTEM
RT-06 OUTSIDE CONTAINMENT
(SHEET 3 OF 3)

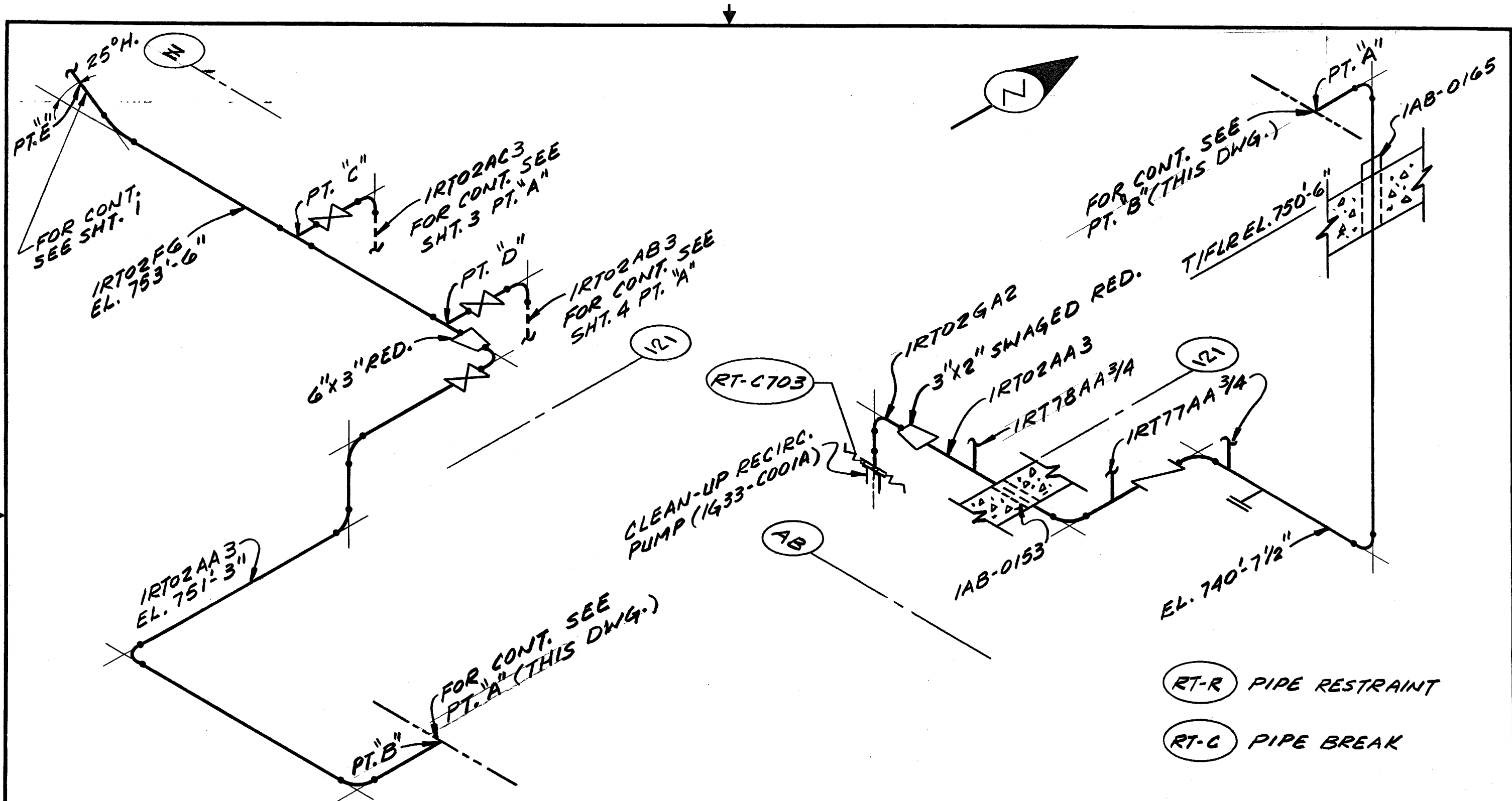


RT-R PIPE RESTRAINT

RT-C PIPE BREAK

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

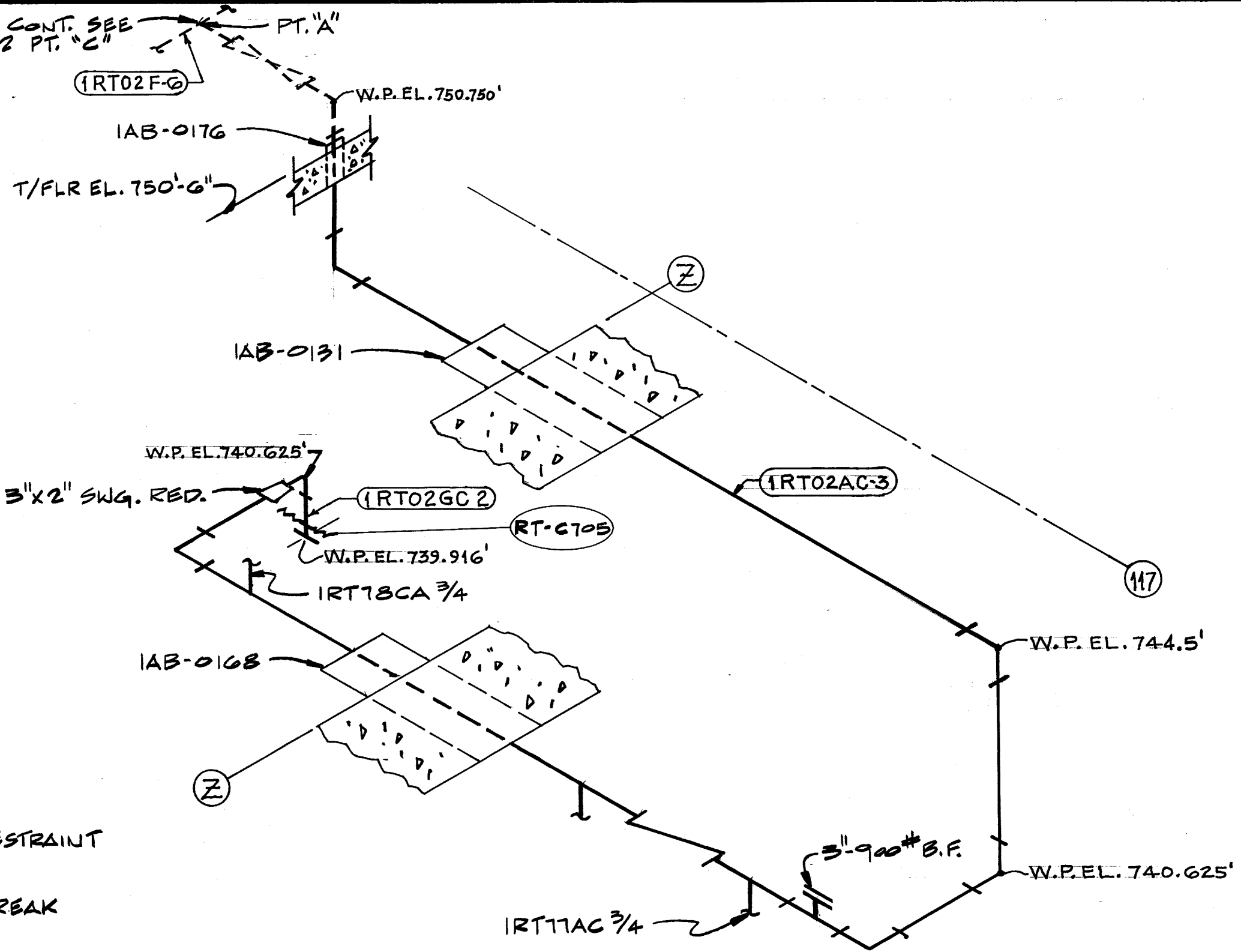
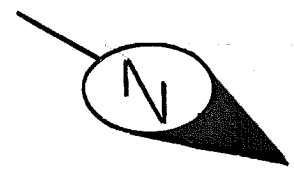
FIGURE B3.6-27
POSTULATED BREAKS AND RESTRAINT
LOCATIONS RWCU SUBSYSTEM
RT-07 'OUTSIDE CONTAINMENT'
(SHEET 1 OF 4)



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

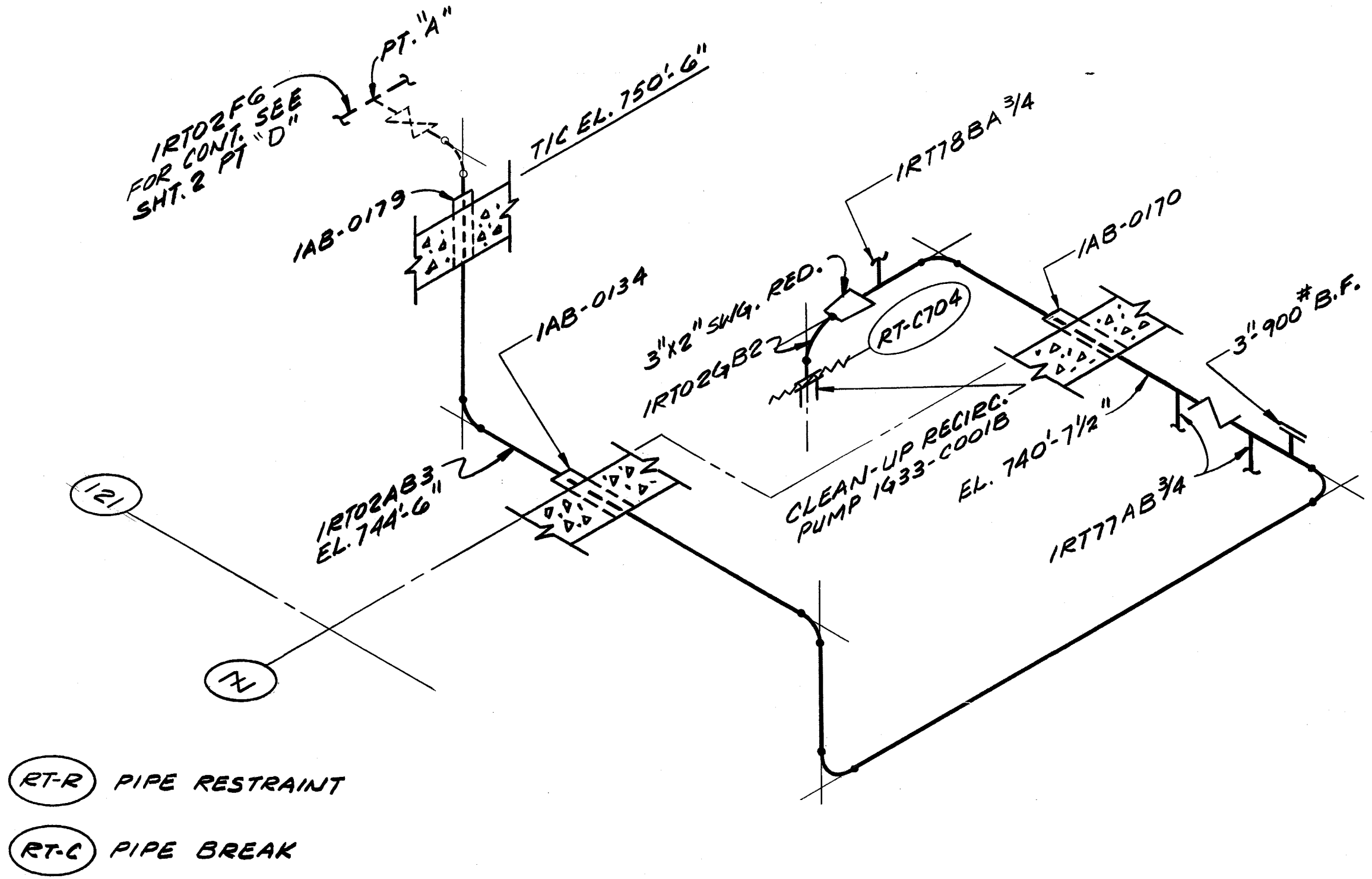
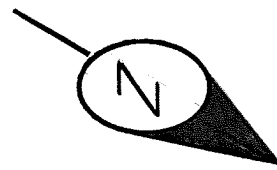
FIGURE B3.6-27
POSTULATED BREAKS AND RESTRAINT
LOCATIONS RCU SUBSYSTEM
RT-07 OUTSIDE CONTAINMENT
(SHEET 2 OF 4)

FOR CONT. SEE
SHT. 2 PT. "C"



- (RT-R) PIPE RESTRAINT
- (RT-C) PIPE BREAK

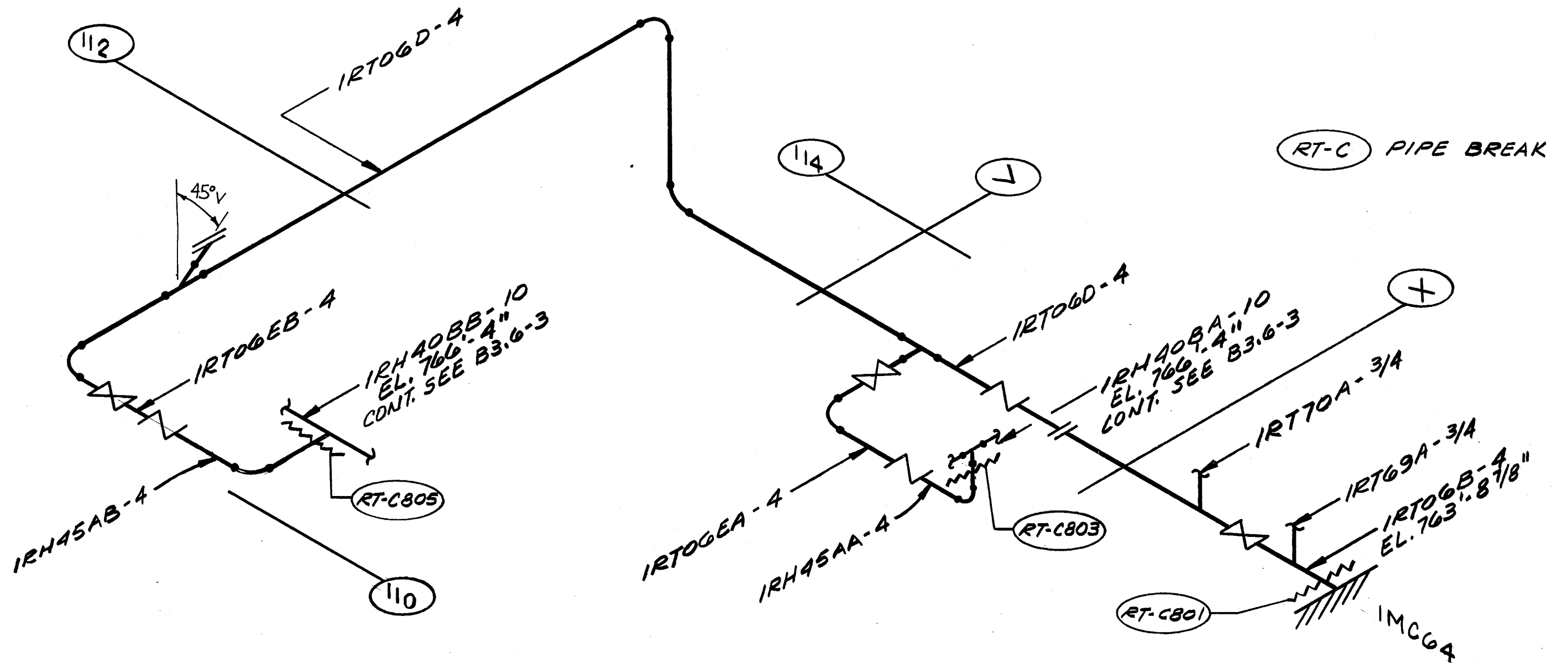
CLINTON POWER STATION UPDATED SAFETY ANALYSIS REPORT
FIGURE B3.6-27 POSTULATED BREAKS AND RESTRAINT LOCATIONS RCU SUBSYSTEM RT-07 OUTSIDE CINTAINMENT (SHEET 3 OF 4)



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

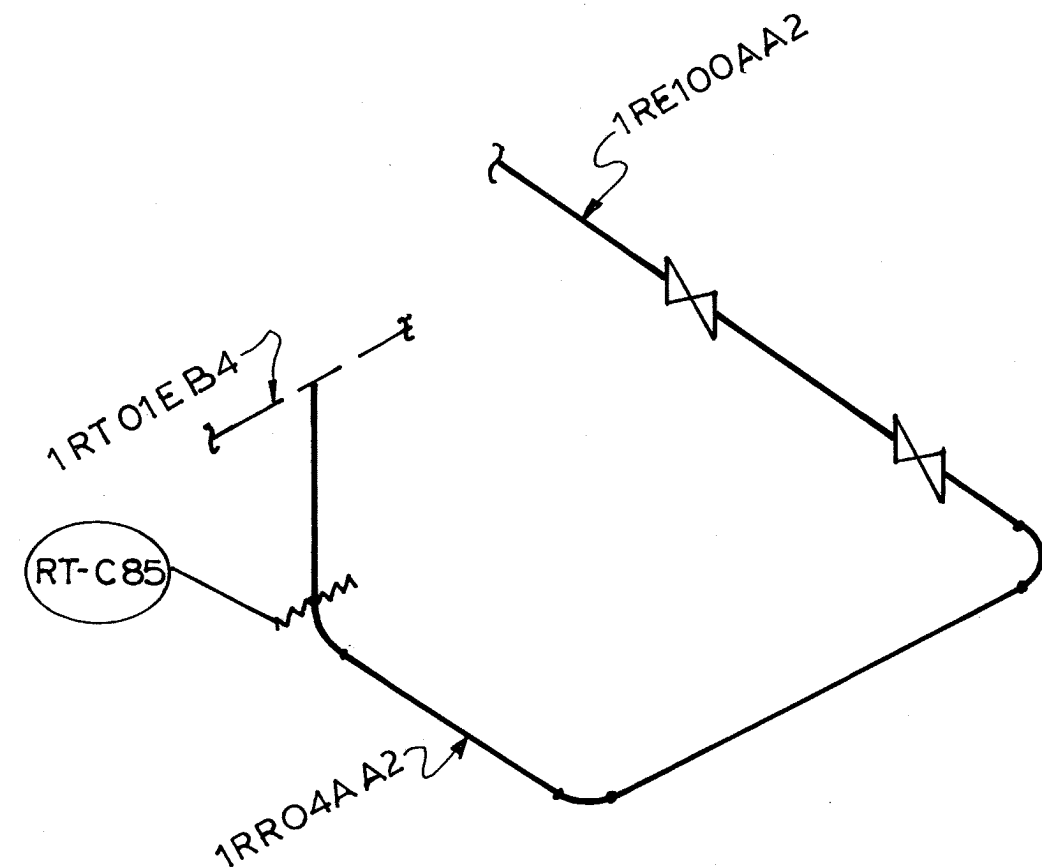
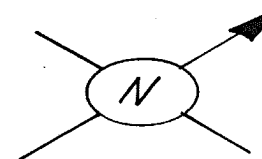
FIGURE B3.6-27
POSTULATED BREAKS AND RESTRAINT
LOCATIONS RWCU SUBSYSTEM
RT-07-OUTSIDE CONTAINMENT
(SHEET 4 OF 4)

North



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

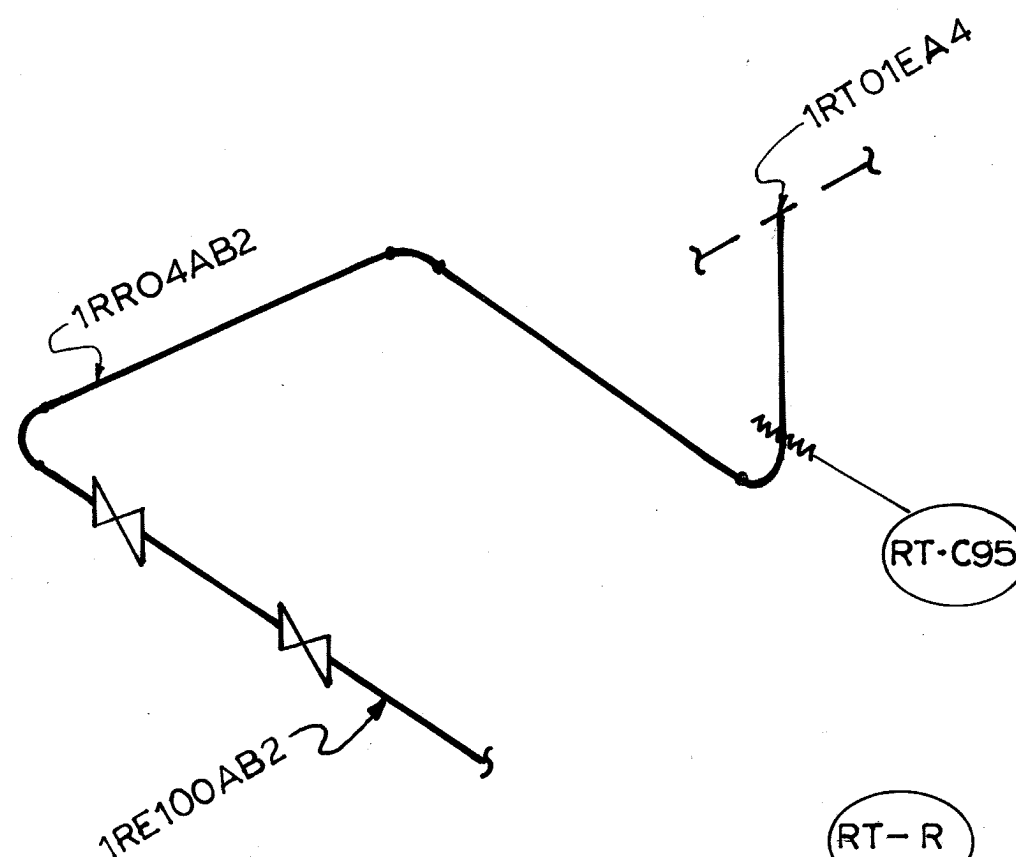
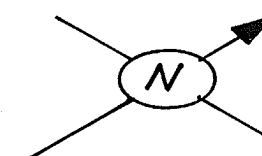
FIGURE B3.6-28
POSTULATED BREAKS AND RESTRAINT
LOCATIONS RWCU SUBSYSTEM
RT-08 OUTSIDE CONTAINMENT



(RT-R) PIPE RESTRAINT
(RT-C) PIPE BREAK

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE B3.6-29
POSTULATED BREAKS AND RESTRAINT
LOCATIONS RWCU DRAIN SUBSYSTEM
RR-32 INSIDE CONTAINMENT

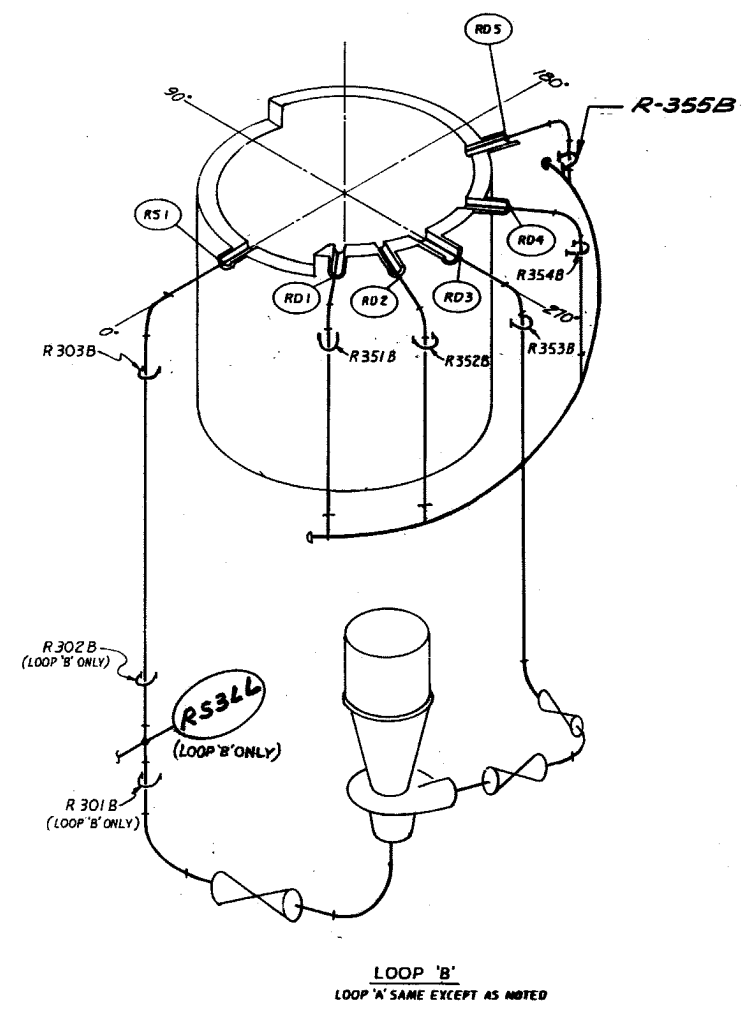


(RT-R) PIPE RESTRAINT
(RT-C) PIPE BREAK

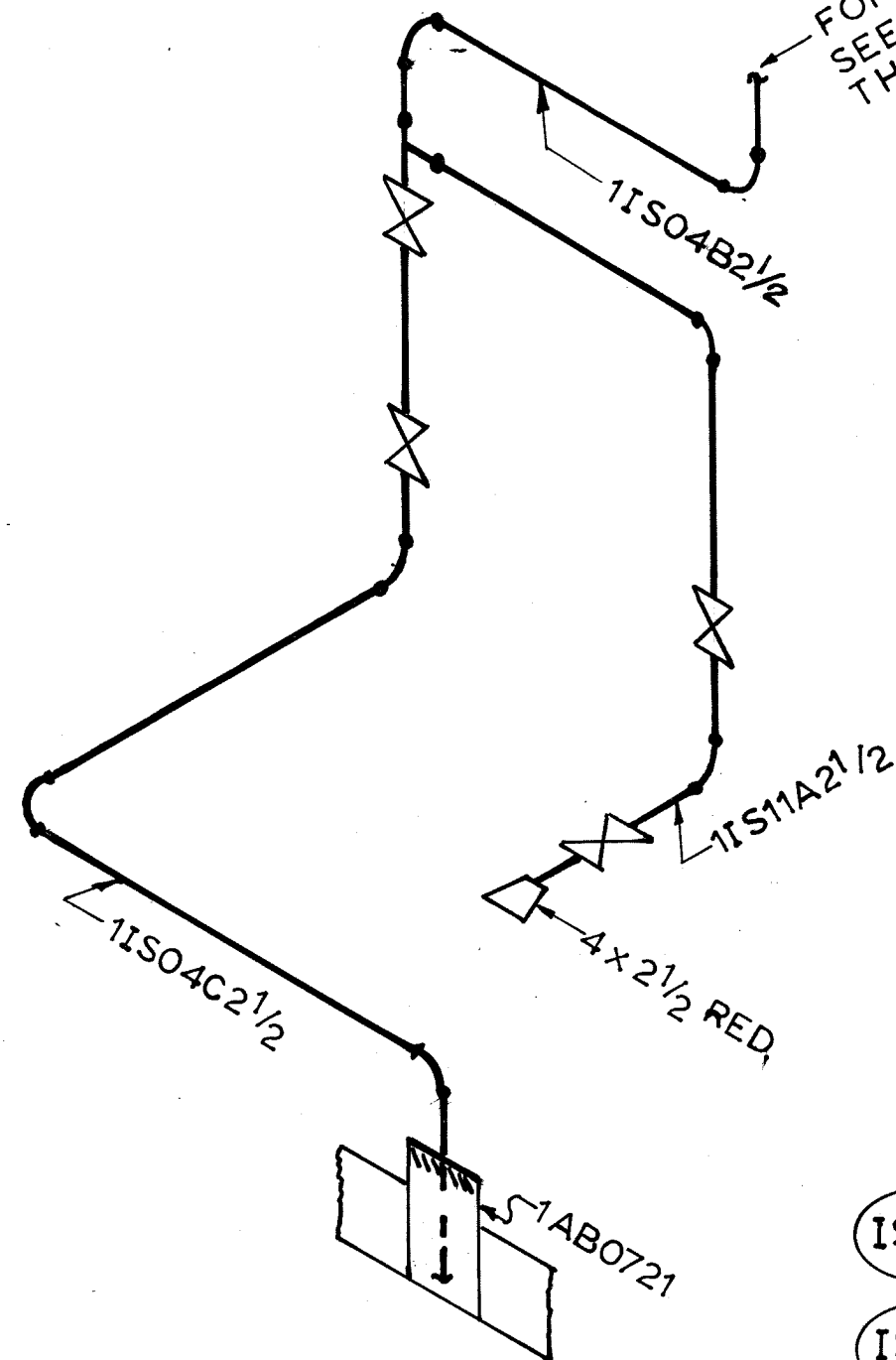
CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE B3.6-30
POSTULATED BREAKS AND RESTRAINT
LOCATIONS RWCU DRAIN SUBSYSTEM
RR-33 INSIDE CONTAINMENT

BREAK IDENT	RESTRAINT NUMBER
RS 1	R 303B
RS 3 LL	R 301B R 302B
RS 3 LL	R 301B R 302B
RD 1	R 351B
RD 2	R 352B
RD 3	R 353B
RD 4	R 354B
RD 5	R 355B



SUBSCRIPT 'LL' INDICATES LONGITUDINAL BREAK



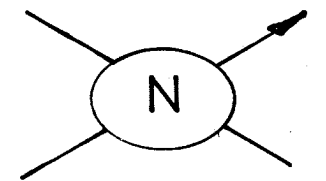
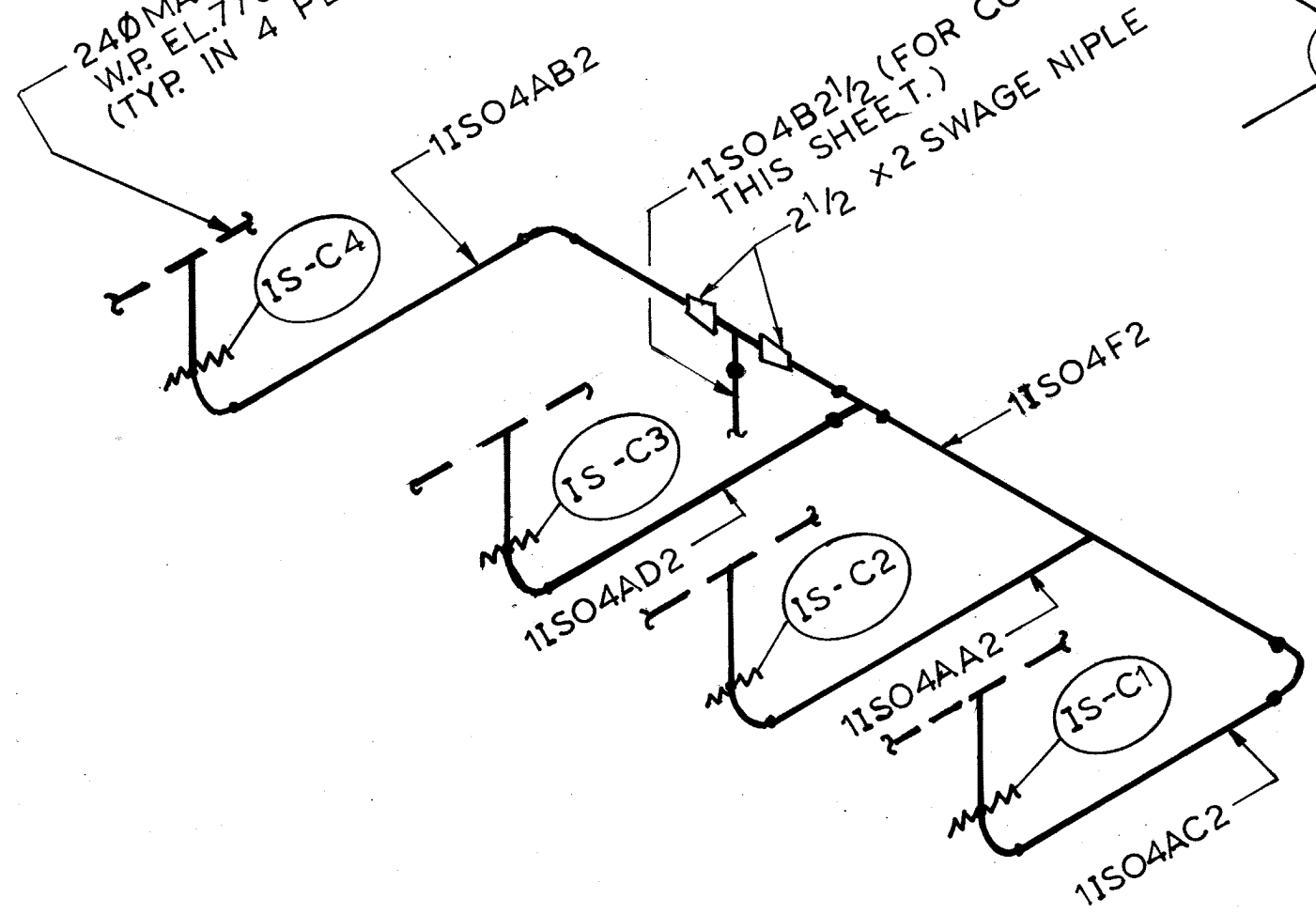
PLAN "A"

FOR CONT.
SEE PLAN "B"
THIS SHEET

24" MAIN STEAM PIPE
W.P. EL. 770'-6 1/2"
(TYP. IN 4 PLACES)

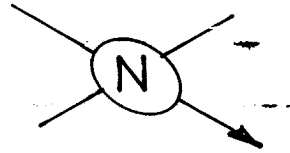
- (IS-R) PIPE RESTRAINT
- (IS-C) PIPE BREAK

PLAN "B"



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

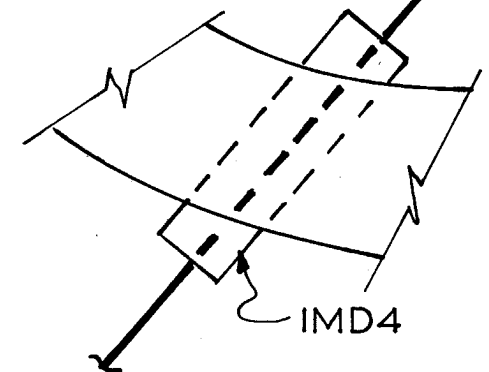
FIGURE B3.6-32
POSTULATED BREAKS AND RESTRAINT
LOCATIONS-MSIV-LEAKAGE CONTROL
SUBSYSTEM IS-03 OUTSIDE
CONTAINMENT



PLAN "A"

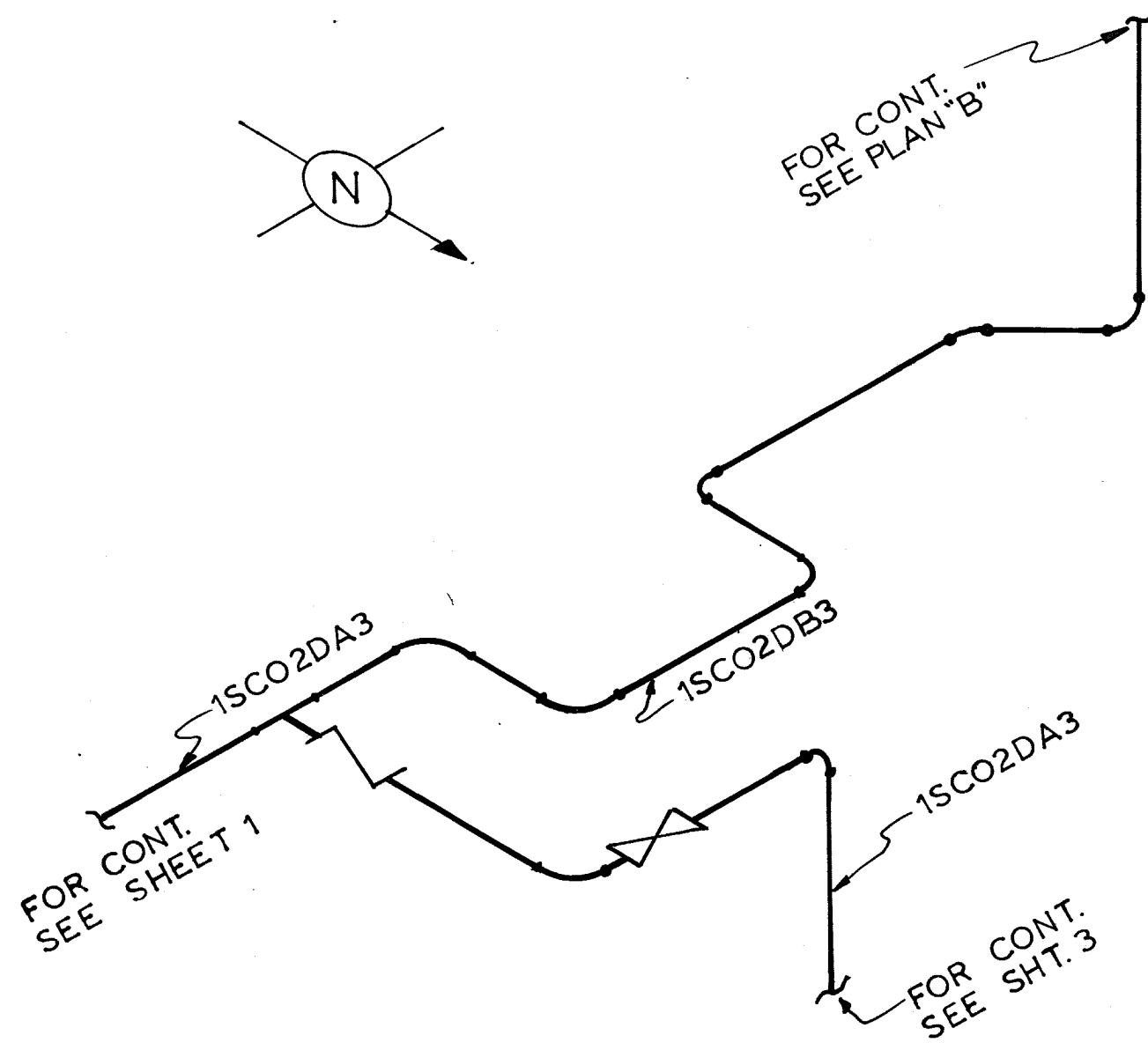
FOR CONT.
SEE SHEET 2

1SCO2DA3



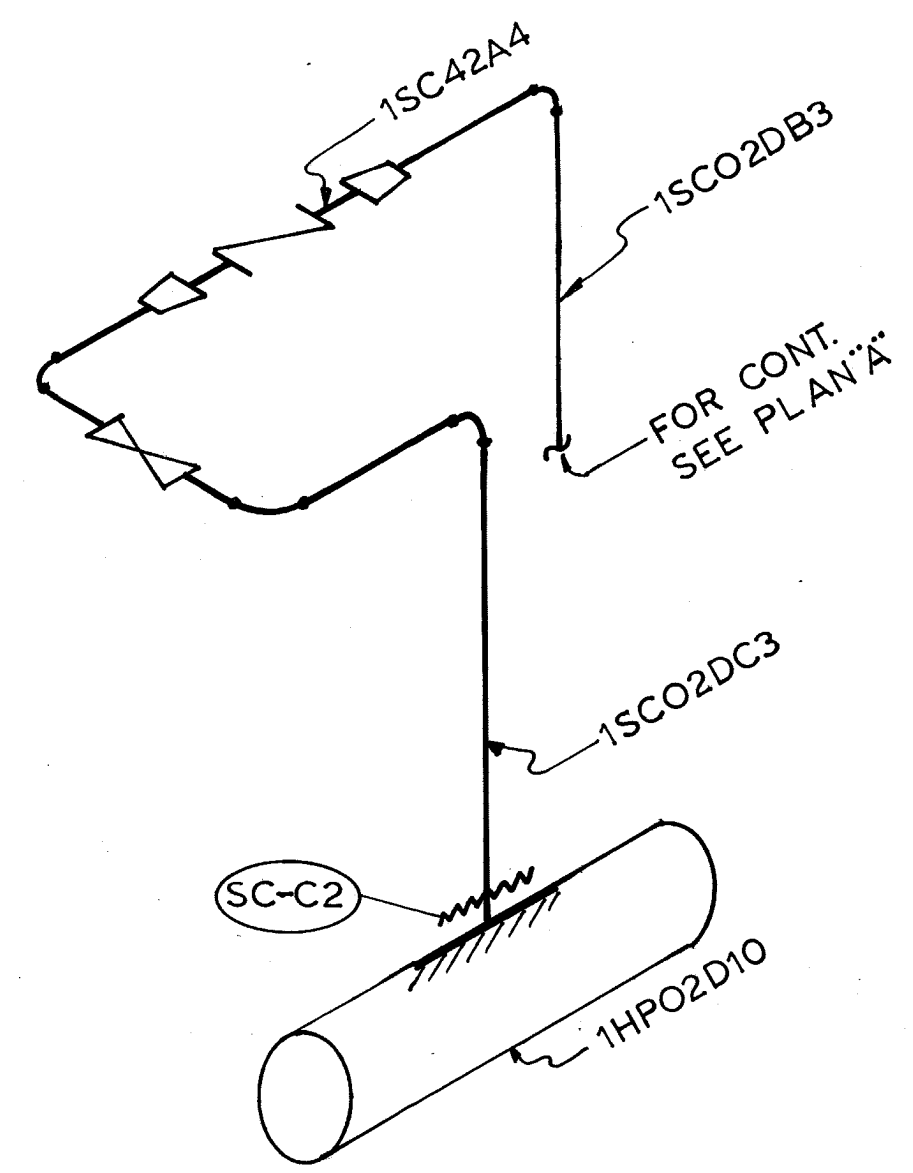
CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE B3.6-33
POSTULATED BREAKS AND RESTRAINT
LOCATIONS, SLCS SUBSYSTEM SC-07
SC-07 INSIDE CONTAINMENT
(SHEET 1 OF 3)



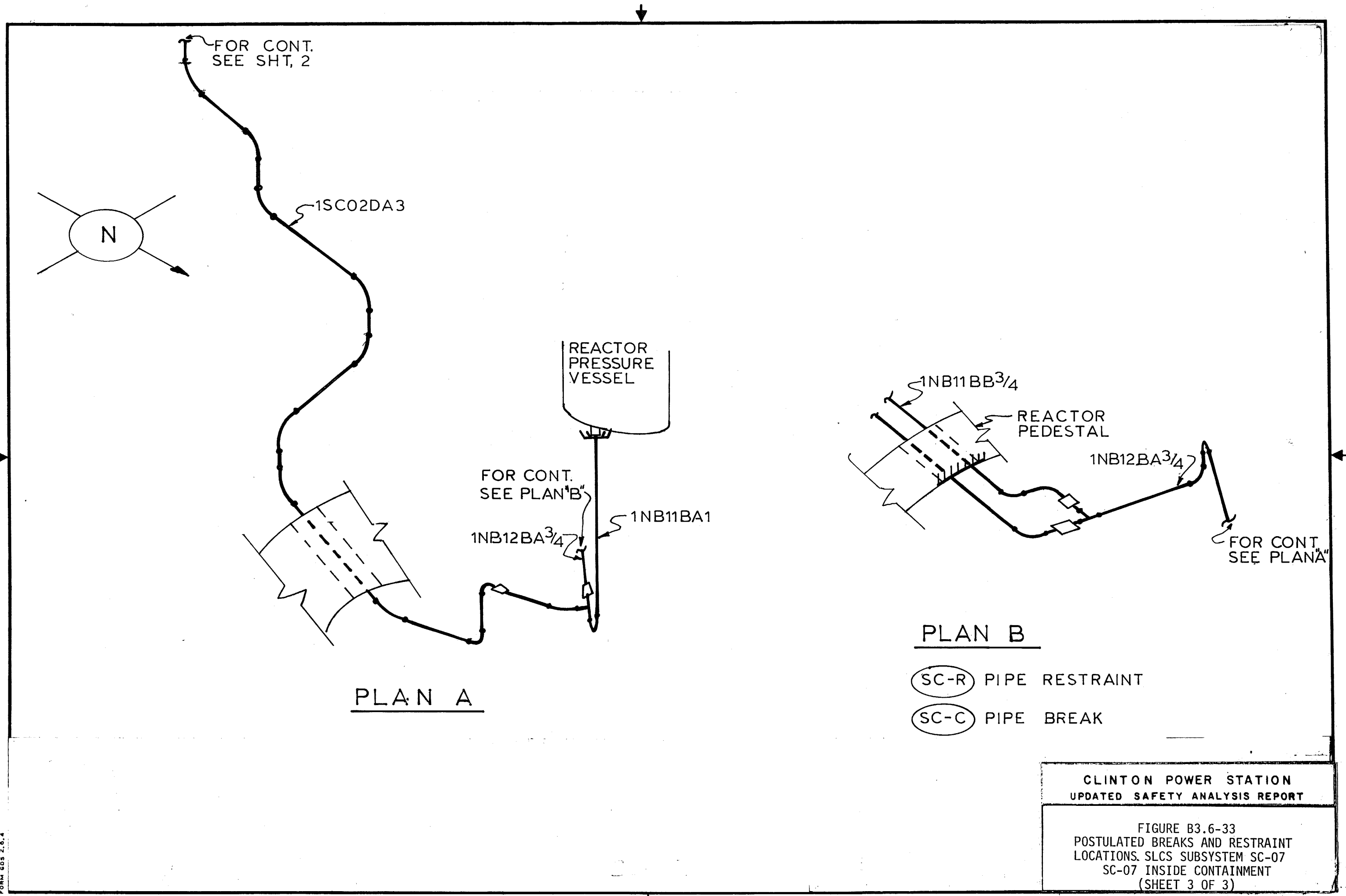
PLAN A

- (SC-R) PIPE RESTRAINT
- (SC-C) PIPE BREAK

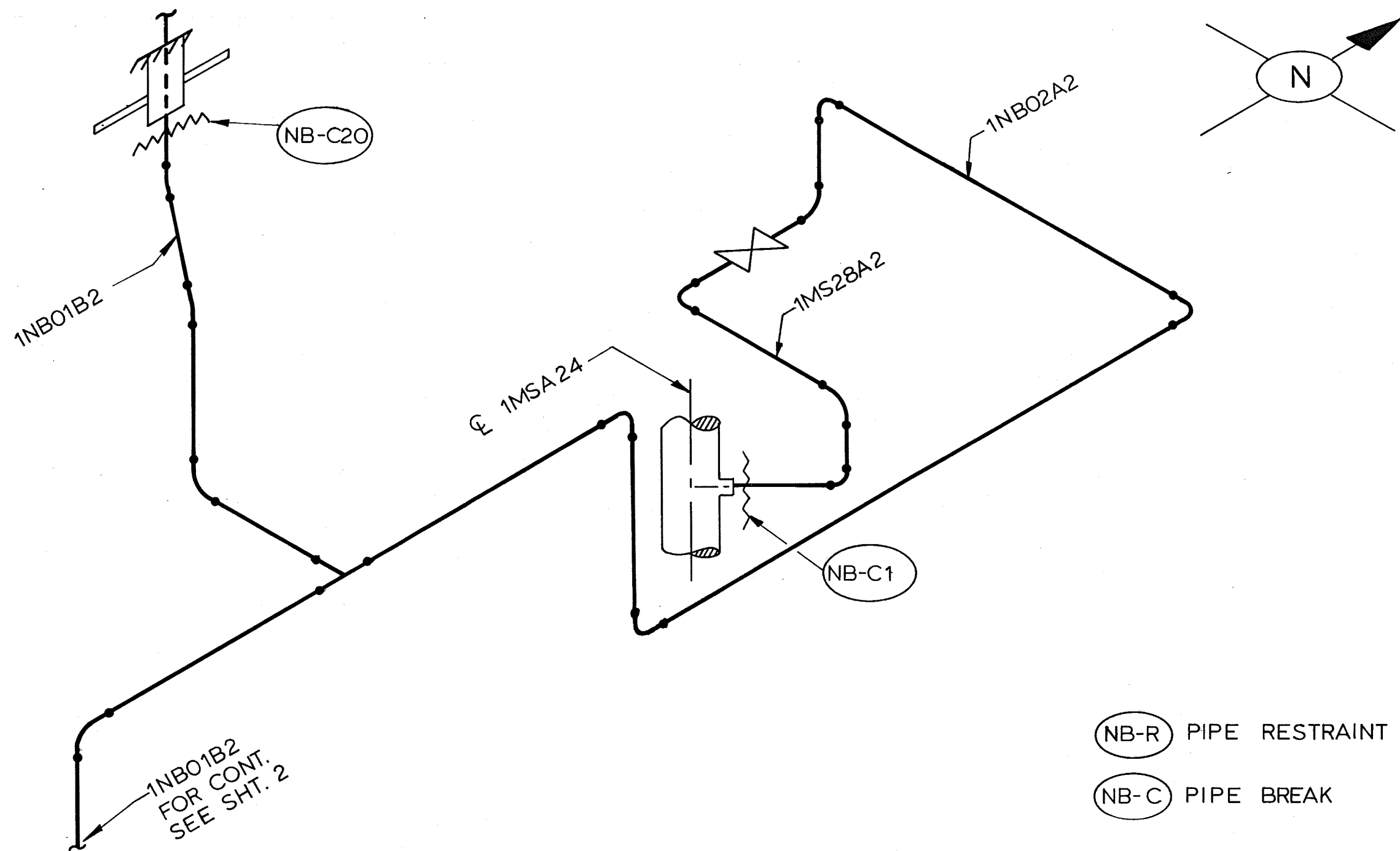


PLAN B

<p>CLINTON POWER STATION UPDATED SAFETY ANALYSIS REPORT</p>
<p>FIGURE B3.6-33 POSTULATED BREALS AND RESTRAINT LOCATIONS SLCS SUBSYSTEM SC-07 SC-07 INSIDE CONTAINMENT (SHEET 2 OF 3)</p>



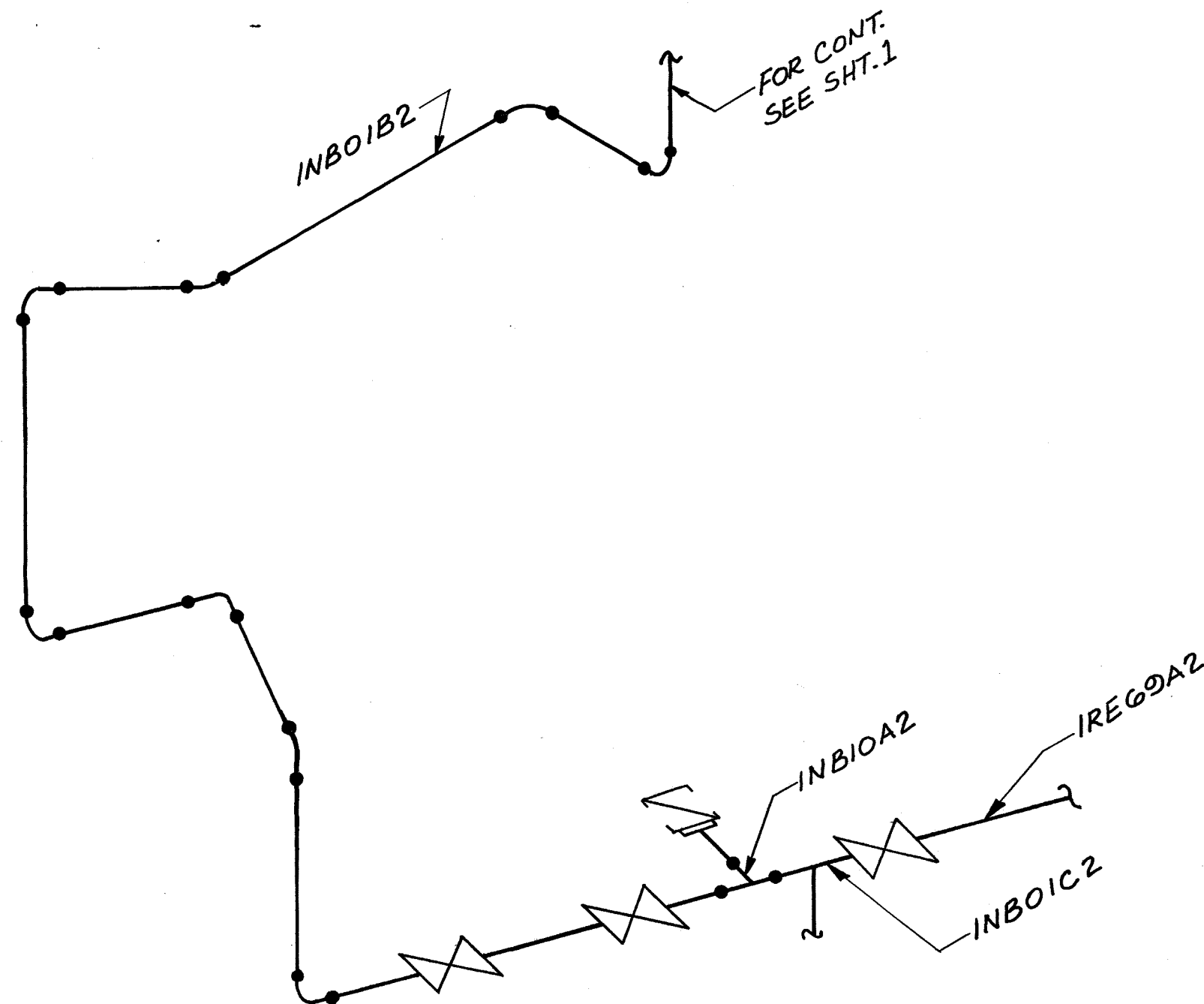
FORM GDS 2.6.4



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE B3.6-34
POSTULATED BREAKS AND RESTRAINT
LOCATIONS NUCLEAR BOILER SUBSYSTEM
NB-01 INSIDE CONTAINMENT
(SHEET 1 OF 2)

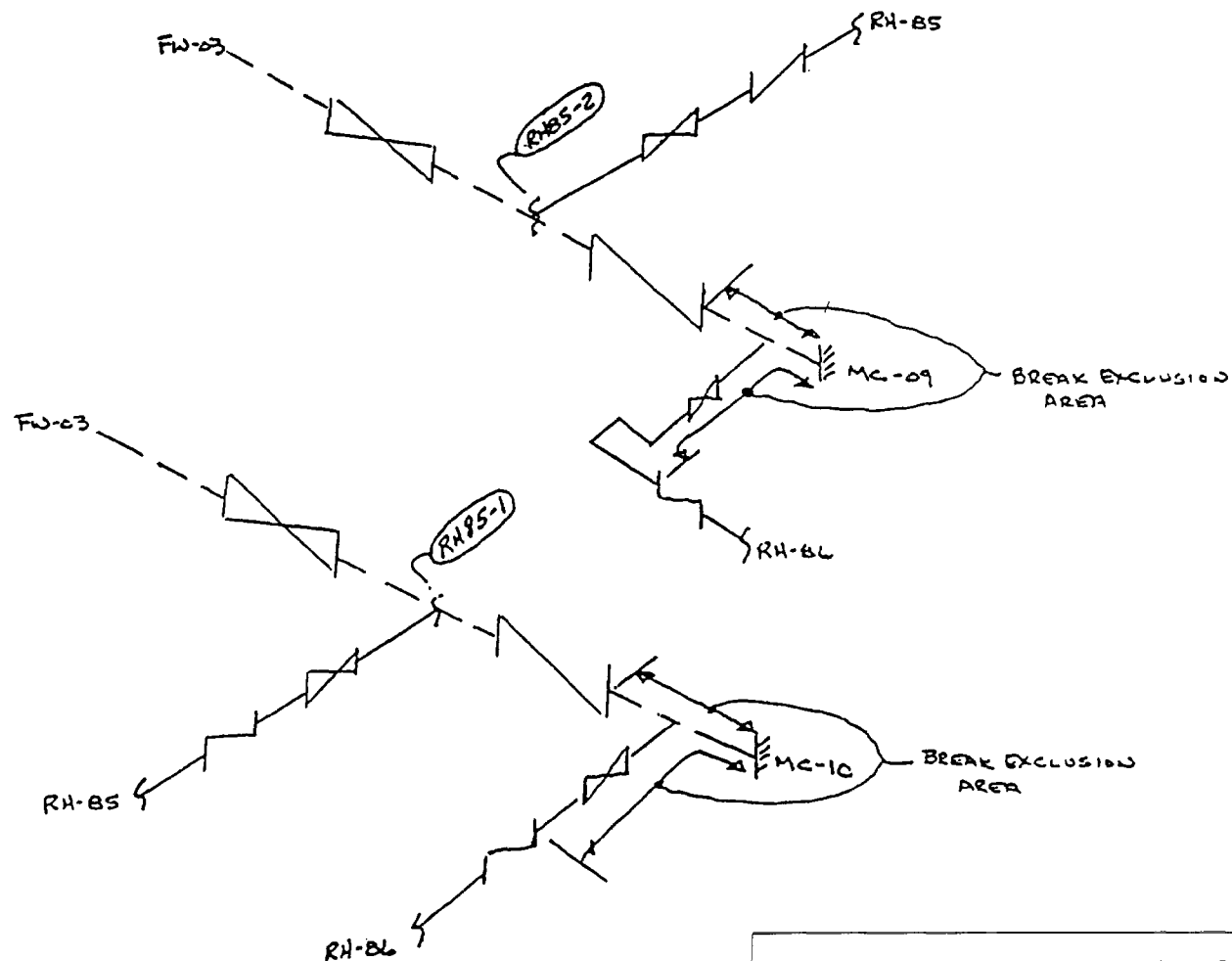
(NB-R) PIPE RESTRAINT
(NB-C) PIPE BREAK



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE B3.6-34
POSTULATED BREAKS AND RESTRAINT
LOCATIONS NUCLEAR BOILER SUBSYSTEM
NB-01 INSIDE CONTAINMENT
(SHEET 2 OF 2)

REVISION 9
NOVEMBER 2000



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE B3.6-35

POSTULATED BREAKS AND
RESTRAINT LOCATION
FWLCS SUBSYSTEMS
RH-85 AND RH-86

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-1
AUXILIARY BUILDING PIPING
PLAN EL. 707'-6" AREA 1

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-2

AUXILIARY BUILDING PIPING
PLAN EL. 707'-6" AREA 2

Security - Related Information Figure Withheld Under 10 CFR 2.390

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UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-3

AUXILIARY BUILDING PIPING
PLAN EL. 707'-6" AREA 3

Security - Related Information Figure Withheld Under 10 CFR 2.390

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UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-4

AUXILIARY BUILDING PIPING
PLAN EL. 707'-6" AREA 4

Security - Related Information Figure Withheld Under 10 CFR 2.390

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UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-5

AUXILIARY BUILDING PIPING
PLAN EL. 707'-6" AREA 5

Security - Related Information Figure Withheld Under 10 CFR 2.390

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UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-6
AUXILIARY BUILDING PIPING
PLAN EL. 737'-0" AREA 1

Security - Related Information Figure Withheld Under 10 CFR 2.390

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UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-7

AUXILIARY BUILDING PIPING
PLAN EL. 737'-0" AREA 2

Security - Related Information Figure Withheld Under 10 CFR 2.390

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UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-8

AUXILIARY BUILDING PIPING
PLAN EL. 755'-0" AREA 2

Security - Related Information Figure Withheld Under 10 CFR 2.390

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UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-9
AUXILIARY BUILDING PIPING
PLAN EL. 737'-0" AREA 3

Security - Related Information Figure Withheld Under 10 CFR 2.390

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UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-10

AUXILIARY BUILDING PIPING
PLAN EL. 737'-0" AREA 4

Security - Related Information Figure Withheld Under 10 CFR 2.390

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UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-11

AUXILIARY BUILDING PIPING
PLAN EL. 737'-0" AREA 5

Security - Related Information Figure Withheld Under 10 CFR 2.390

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UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-12

AUXILIARY BUILDING PIPING
PLAN EL. 750'-6" AREA 5

Security - Related Information Figure Withheld Under 10 CFR 2.390

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UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-13
AUXILIARY BUILDING PIPING
PLAN EL. 762'-0" AREA 1

Security - Related Information Figure Withheld Under 10 CFR 2.390

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UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-14

AUXILIARY BUILDING PIPING
PLAN EL. 762'-0" AREA 2

Security - Related Information Figure Withheld Under 10 CFR 2.390

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UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-15
AUXILIARY BUILDING PIPING
PLAN EL. 762'-0" AREA 3

Security - Related Information Figure Withheld Under 10 CFR 2.390

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UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-16

AUXILIARY BUILDING PIPING
PLAN EL. 762'-0" AREA 4

Security - Related Information Figure Withheld Under 10 CFR 2.390

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UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-17

AUXILIARY BUILDING PIPING
PLAN EL. 762'-0" AREA 5

Security - Related Information Figure Withheld Under 10 CFR 2.390

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UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-18

AUXILIARY BUILDING PIPING
MISC. EL. 707'-6" AREA 2

Security - Related Information Figure Withheld Under 10 CFR 2.390

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UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-19
FUEL BUILDING PIPING PLAN
EL. 712'-0" AREA 1

Security - Related Information Figure Withheld Under 10 CFR 2.390

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UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-20
FUEL BUILDING PIPING PLAN
EL. 712'-0" AREA 2

Security - Related Information Figure Withheld Under 10 CFR 2.390

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UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-21
FUEL BUILDING PIPING PLAN
EL. 712'-0" AREA 3

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-22

FUEL BUILDING PIPING PLAN
EL. 712'-0" AREA 5

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-23
FUEL BUILDING PIPING PLAN
EL. 712'-0" AREA 6

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-24
FUEL BUILDING PIPING PLAN
EL. 712'-0" AREA 5

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-25
FUEL BUILDING PIPING PLAN
EL. 712'-0" AREA 8

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-26

FUEL BUILDING PIPING PLAN
EL. 737'-0" AREA 1

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-27

FUEL BUILDING PIPING PLAN
EL. 737'-0" AREA 2

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-28
FUEL BUILDING PIPING PLAN
EL. 737'-0" AREA 3

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-29

FUEL BUILDING PIPING PLAN
EL. 737'-0" AREA 5

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-30
FUEL BUILDING PIPING PLAN
EL. 737'-0" AREA 6

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-31
FUEL BUILDING PIPING PLAN
EL. 737'-0" AREA 7

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-32
FUEL BUILDING PIPING PLAN
EL. 737'-0" AREA 8

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-33
FUEL BUILDING PIPING PLAN
EL. 755'-0" AREA 1

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-34
FUEL BUILDING PIPING PLAN
EL. 755'-0" AREA 2

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-35
FUEL BUILDING PIPING PLAN
EL. 755'-0" AREA 3

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-36
FUEL BUILDING PIPING PLAN
EL. 755'-0" AREA 4

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-37
FUEL BUILDING PIPING PLAN
EL. 755'-0" AREA 5

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-38
FUEL BUILDING PIPING PLAN
EL. 781'-0" AREA 1

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-39
FUEL BUILDING PIPING PLAN
EL. 781'-0" AREA 2

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-40

FUEL BUILDING PIPING PLAN
EL. 781'-0" AREA 3

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-41

DIESEL GENERATOR AND HVAC BUILDING
PIPING PLAN EL. 702'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-42

DIESEL GENERATOR AND HVAC BUILDING
PIPING PLAN EL. 702'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-43

DIESEL GENERATOR AND HVAC BUILDING
PIPING PLAN EL. 702'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-44
DIESEL GENERATOR AND HVAC BUILDING
PIPING PLAN EL. 712'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-45

DIESEL GENERATOR AND HVAC BUILDING
PIPING PLAN EL. 712'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-46
DIESEL GENERATOR AND HVAC BUILDING
PIPING PLAN EL. 712'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-47

DIESEL GENERATOR AND HVAC BUILDING
PIPING PLAN EL. 719'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-48
DIESEL GENERATOR AND HVAC BUILDING
PIPING PLAN EL. 719'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-49

DIESEL GENERATOR AND HVAC BUILDING
PIPING PLAN EL. 719'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-50
DIESEL GENERATOR AND HVAC BUILDING
PIPING PLAN EL. 719'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

**CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT**

FIGURE D3.6-51
DIESEL GENERATOR AND HVAC BUILDING
PIPING PLAN EL. 719'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

**CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT**

FIGURE D3.6-52

DIESEL GENERATOR AND HVAC BUILDING
PIPING PLAN EL. 719'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-53

DIESEL GENERATOR AND HVAC BUILDING
PIPING PLAN EL. 737'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-54

DIESEL GENERATOR AND HVAC BUILDING
PIPING PLAN EL. 737'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-55
DIESEL GENERATOR AND HVAC BUILDING
PIPING PLAN EL. 737'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-56
DIESEL GENERATOR AND HVAC BUILDING
PIPING PLAN EL. 737'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-57

DIESEL GENERATOR AND HVAC BUILDING
PIPING PLAN EL. 737'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-58
DIESEL GENERATOR AND HVAC BUILDING
PIPING PLAN EL. 762'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-59
DIESEL GENERATOR AND HVAC BUILDING
PIPING PLAN EL. 762'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-60

DIESEL GENERATOR AND HVAC BUILDING
PIPING PLAN EL. 762'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-61

CONTROL BUILDING PIPING
PLAN EL. 702'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-62
CONTROL BUILDING PIPING
PLAN EL. 702'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-63
CONTROL BUILDING PIPING
PLAN EL. 702'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-64
CONTROL BUILDING PIPING
PLAN EL. 702'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-65

CONTROL BUILDING PIPING
PLAN EL. 702'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-66
CONTROL BUILDING PIPING
PLAN EL. 702'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-67

CONTROL BUILDING PIPING
PLAN EL. 712'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-68
CONTROL BUILDING PIPING
PLAN EL. 719'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-69
CONTROL BUILDING PIPING
PLAN EL. 719'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-70
CONTROL BUILDING PIPING
PLAN EL. 719'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-71
CONTROL BUILDING PIPING
PLAN EL. 719'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-72
CONTROL BUILDING PIPING
PLAN EL. 719'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-73
CONTROL BUILDING PIPING
PLAN EL. 737'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-74
CONTROL BUILDING PIPING
PLAN EL. 751'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-75
CONTROL BUILDING PIPING
PLAN EL. 737'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-76
CONTROL BUILDING PIPING
PLAN EL. 751'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-77
CONTROL BUILDING PIPING
PLAN EL. 737'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-78
CONTROL BUILDING PIPING
PLAN EL. 751'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION UPDATED SAFETY ANALYSIS REPORT
FIGURE D3.6-79 CONTROL BUILDING PIPING PLAN EL. 762'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-80
CONTROL BUILDING PIPING
PLAN EL. 762'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-81
CONTROL BUILDING PIPING
PLAN EL. 762'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-82
CONTROL BUILDING PIPING
PLAN EL. 781'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-83
CONTROL BUILDING PIPING
PLAN EL. 781'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-84
CONTROL BUILDING PIPING
PLAN EL. 781'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-85
CONTROL BUILDING PIPING
PLAN EL. 800'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-86
CONTROL BUILDING PIPING
PLAN EL. 800'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-87
CONTROL BUILDING PIPING
PLAN EL. 800'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-88
CONTAINMENT PIPING PLAN
FLOOR EL. 712'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-89
DRYWELL PIPING PLAN FLOOR
EL. 712'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-90
CONTAINMENT PIPING PLAN
FLOOR EL. 712'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-91
DRYWELL PIPING PLAN FLOOR
EL. 712'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-92
CONTAINMENT PIPING PLAN
FLOOR EL. 712'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-93
DRYWELL PIPING PLAN FLOOR
EL. 712'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-94
CONTAINMENT PIPING PLAN
FLOOR EL. 712'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-95

DRYWELL PIPING PLAN FLOOR
EL. 712'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-96
CONTAINMENT PIPING PLAN
FLOOR EL. 712'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-97

DRYWELL PIPING PLAN FLOOR
EL. 712'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-98
CONTAINMENT PIPING PLAN
FLOOR EL. 712'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-99

DRYWELL PIPING PLAN FLOOR
EL. 712'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-100
CONTAINMENT PIPING PLAN
FLOOR EL. 737'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-101
DRYWELL PIPING PLAN FLOOR
EL. 737'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION UPDATED SAFETY ANALYSIS REPORT
FIGURE D3.6-102 CONTAINMENT PIPING PLAN FLOOR EL. 737'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION UPDATED SAFETY ANALYSIS REPORT
FIGURE D3.6-103 DRYWELL PIPING PLAN FLOOR EL. 737'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-104
CONTAINMENT PIPING PLAN
FLOOR EL. 737'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-105
DRYWELL PIPING PLAN FLOOR
EL. 737'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-106
CONTAINMENT PIPING PLAN
FLOOR EL. 755'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-107
DRYWELL PIPING PLAN FLOOR
EL. 755'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-108
CONTAINMENT PIPING PLAN
FLOOR EL. 755'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-109
DRYWELL PIPING PLAN FLOOR
EL. 755'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-110
CONTAINMENT PIPING PLAN
FLOOR EL. 755'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-111

DRYWELL PIPING PLAN FLOOR
EL. 755'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-112
CONTAINMENT PIPING PLAN
FLOOR EL. 764'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-113

DRYWELL PIPING PLAN FLOOR
EL. 764'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-114
CONTAINMENT PIPING PLAN
FLOOR EL. 764'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-115
DRYWELL PIPING PLAN FLOOR
EL. 764'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-116
CONTAINMENT PIPING PLAN
FLOOR EL. 764'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-117
DRYWELL PIPING PLAN FLOOR
EL. 764'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-118
CONTAINMENT PIPING PLAN
FLOOR EL. 764'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-119
DRYWELL PIPING PLAN FLOOR
EL. 764'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-120
CONTAINMENT PIPING PLAN
FLOOR EL. 778'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-121
DRYWELL PIPING PLAN FLOOR
EL. 778'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-122
CONTAINMENT PIPING PLAN
FLOOR EL. 778'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-123
DRYWELL PIPING PLAN FLOOR
EL. 778'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-124
CONTAINMENT PIPING PLAN
FLOOR EL. 778'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-125
DRYWELL PIPING PLAN FLOOR
EL. 778'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-126
CONTAINMENT PIPING PLAN
FLOOR EL. 778'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-127
DRYWELL PIPING PLAN FLOOR
EL. 778'-0"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-128
CONTAINMENT PIPING PLAN
FLOOR EL. 803'-3"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-129
CONTAINMENT PIPING PLAN
FLOOR EL. 803'-3"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-130
CONTAINMENT PIPING PLAN
FLOOR EL. 803'-3"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-131
CONTAINMENT PIPING PLAN
FLOOR EL. 803'-3"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-132
CONTAINMENT PIPING PLAN
FLOOR EL. 803'-3"

Security - Related Information Figure Withheld Under 10 CFR 2.390

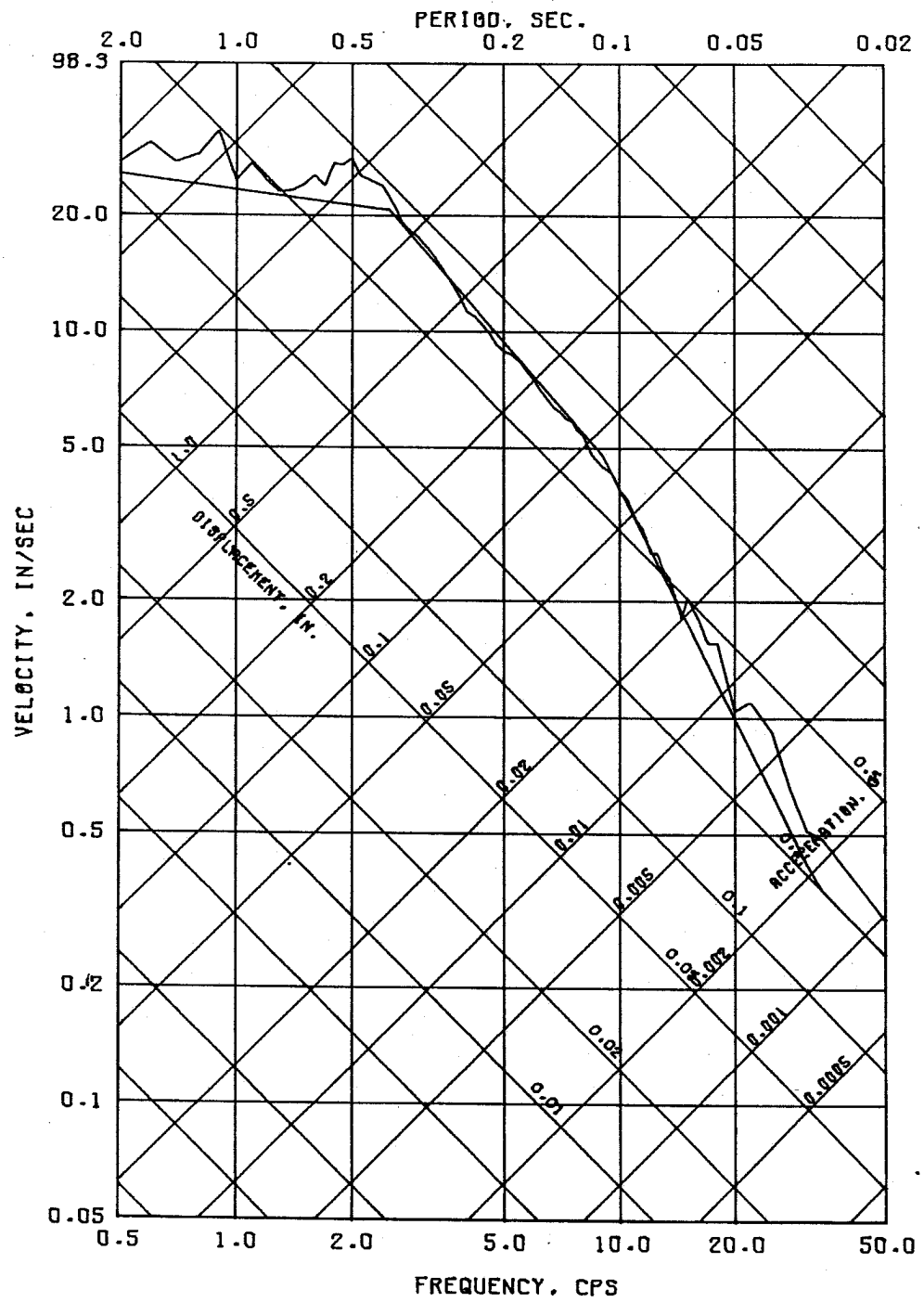
CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-133
CONTAINMENT PIPING PLAN
FLOOR EL. 803'-3"

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE D3.6-134
FLOOD PROTECTION ARRANGEMENT
OF CIRC. WATER SCREEN HOUSE

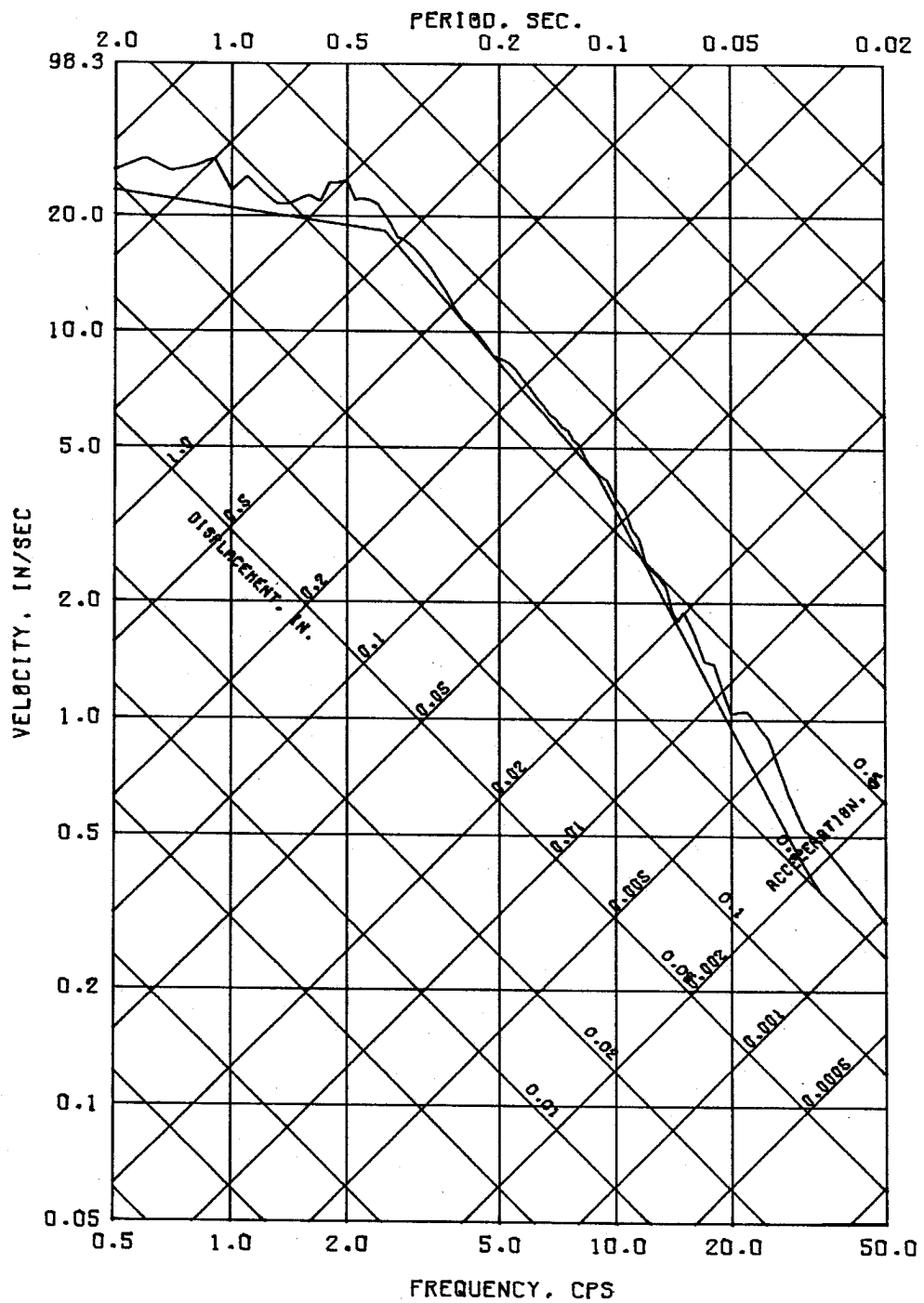


SLH MATCH WITH HORIZ R.G. SPEC 2 PER DAMP

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.7-1

HORIZONTAL RESPONSE SPECTRA
(2% DAMPING)

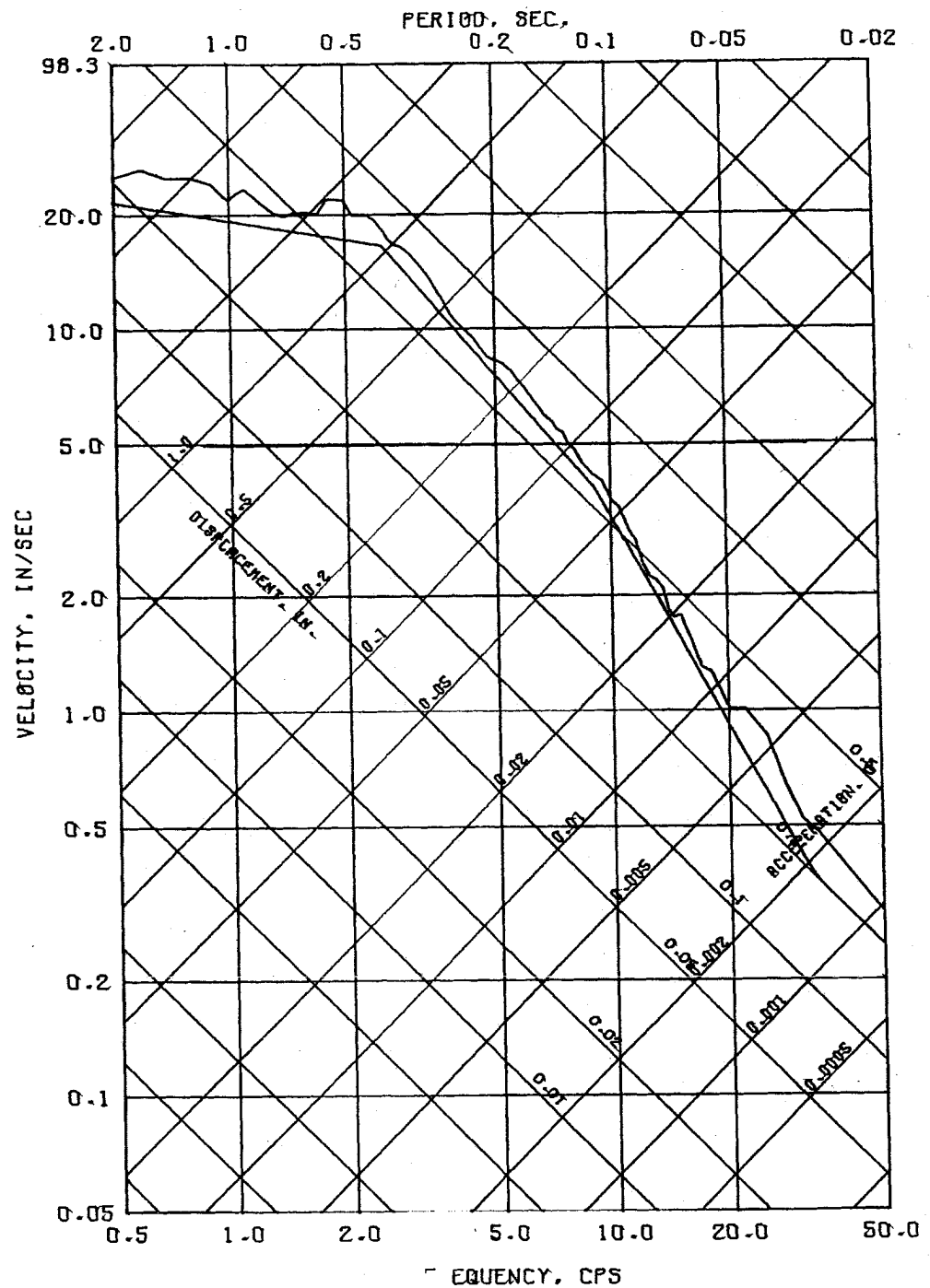


SLH MATCH WITH HORIZ R.G. SPEC 3 PER DAMP

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.7-2

HORIZONTAL RESPONSE SPECTRA
(3% DAMPING).

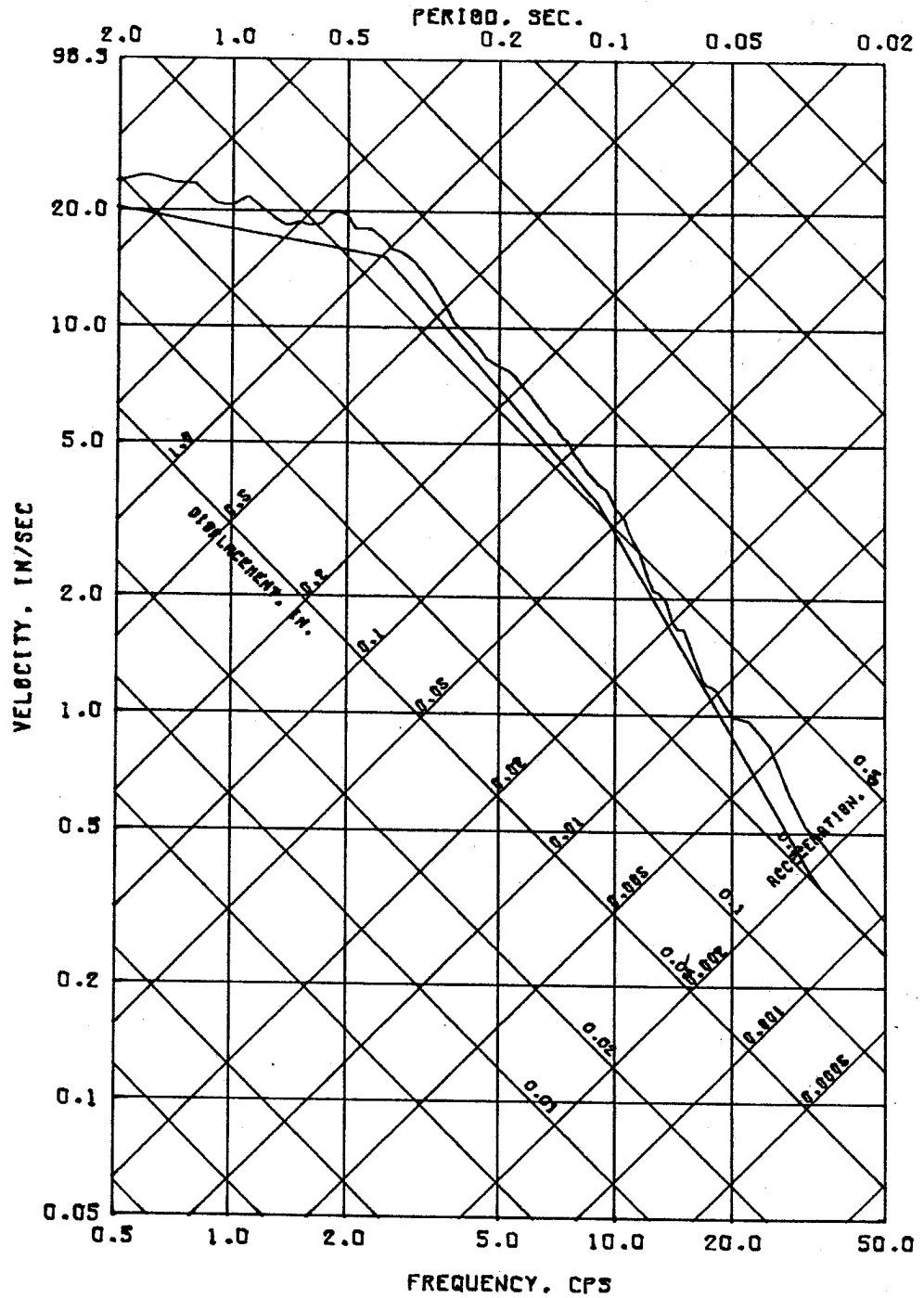


SLH MATCH WITH HORIZ R.G. SPEC 4 PER DAMP

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.7-3

HORIZONTAL RESPONSE SPECTRA
(4% DAMPING)

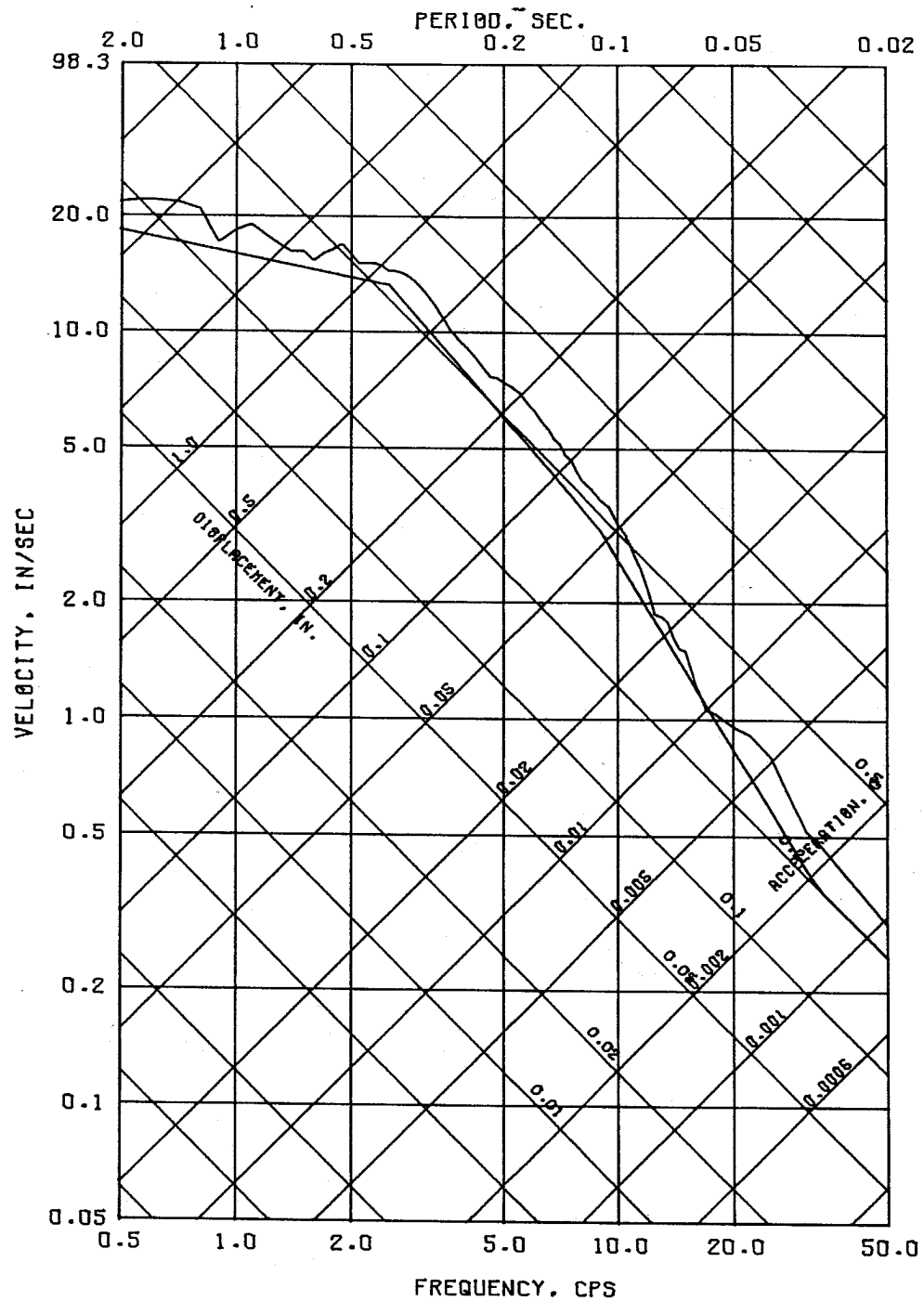


SLH MATCH WITH HORIZ R.G. SPEC 5 PER DAMP

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.7-4

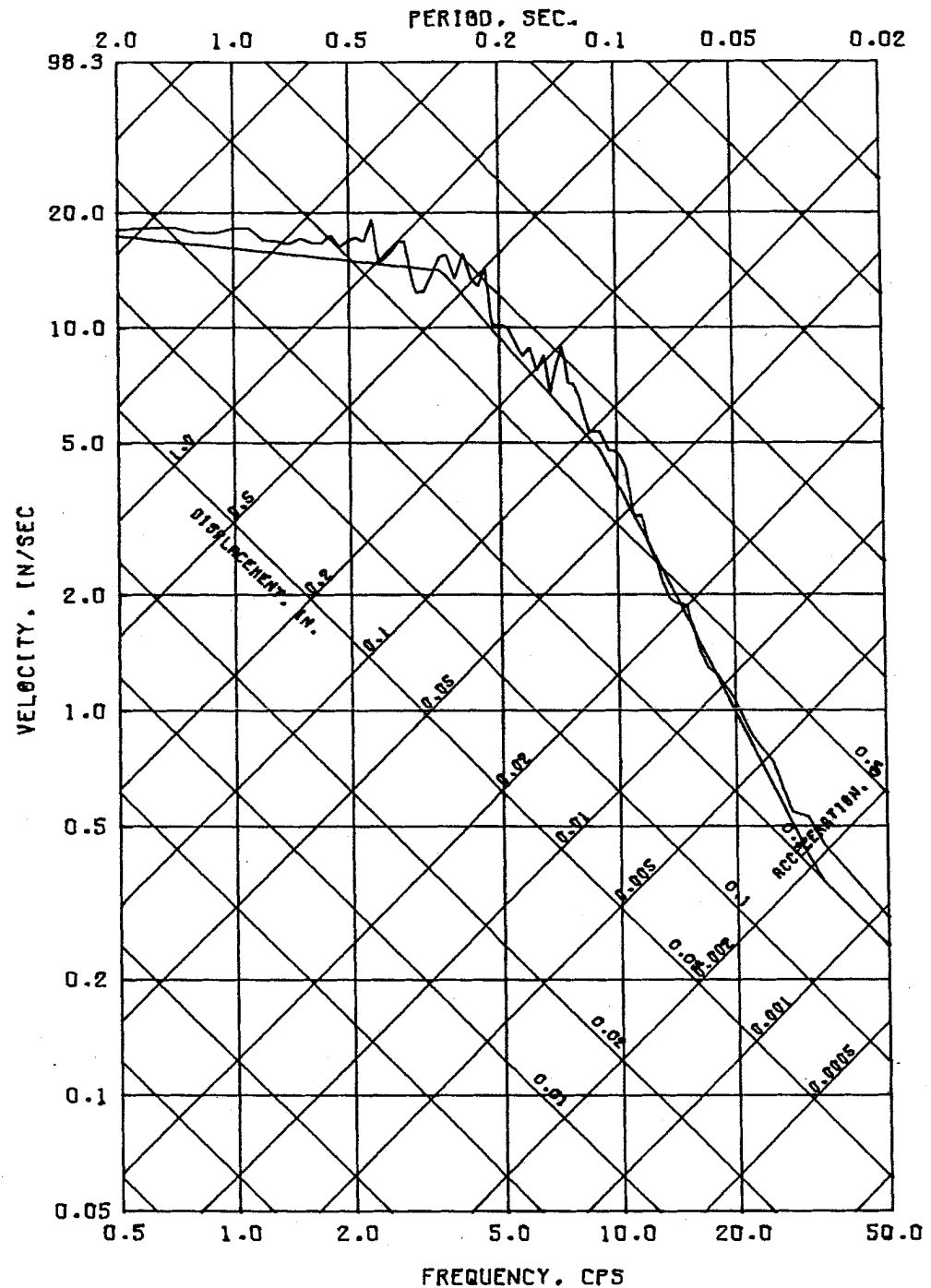
HORIZONTAL RESPONSE SPECTRA
(5% DAMPING)



SLH MATCH WITH HORIZ R.G. SPEC 7 PER DAMP

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.7-5
HORIZONTAL RESPONSE SPECTRA
(7% DAMPING)

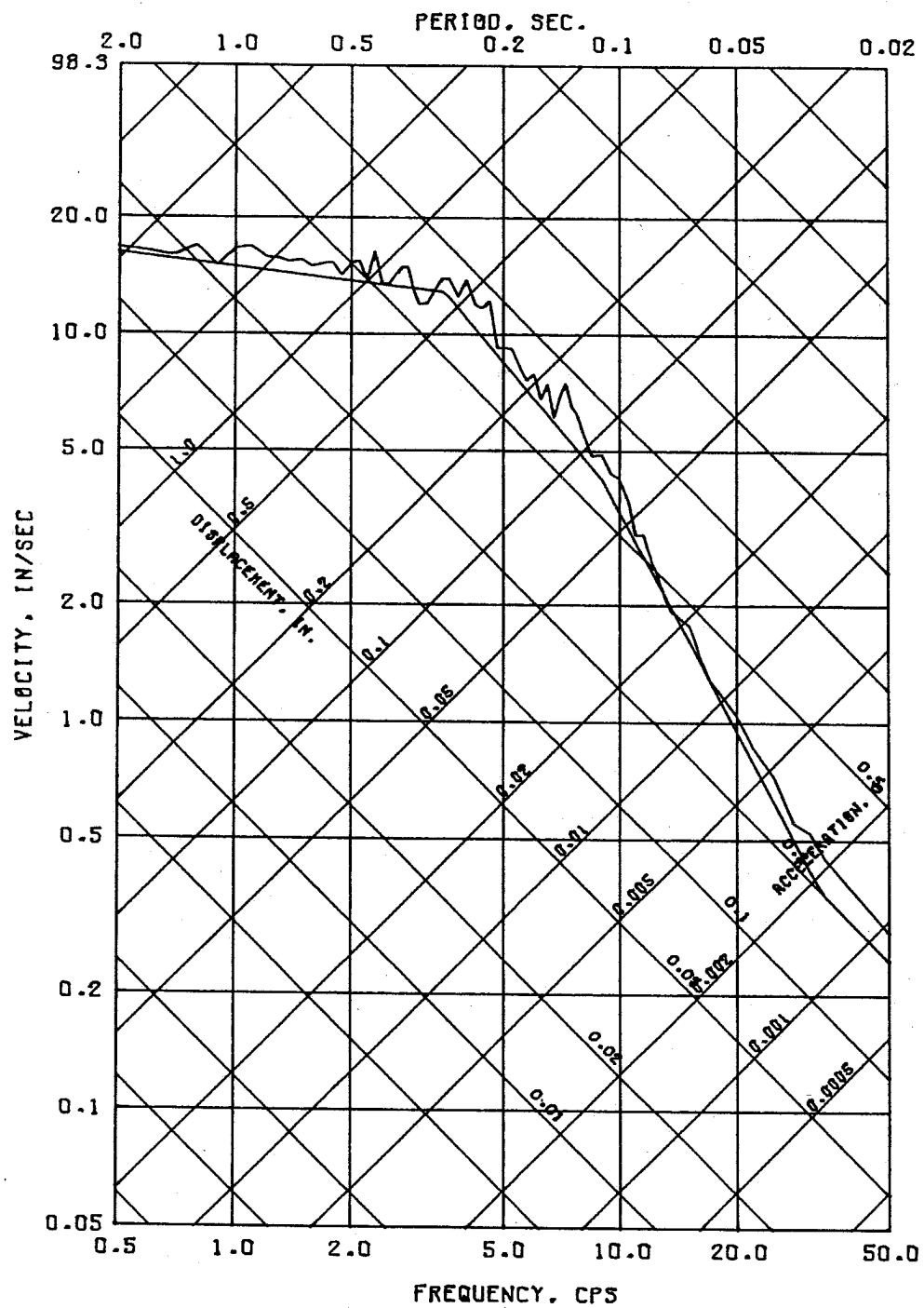


SLV MATCH WITH VERT R.G. SPEC 2 PER DAMP

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.7-6

VERTICAL RESPONSE SPECTRA
(2% DAMPING)

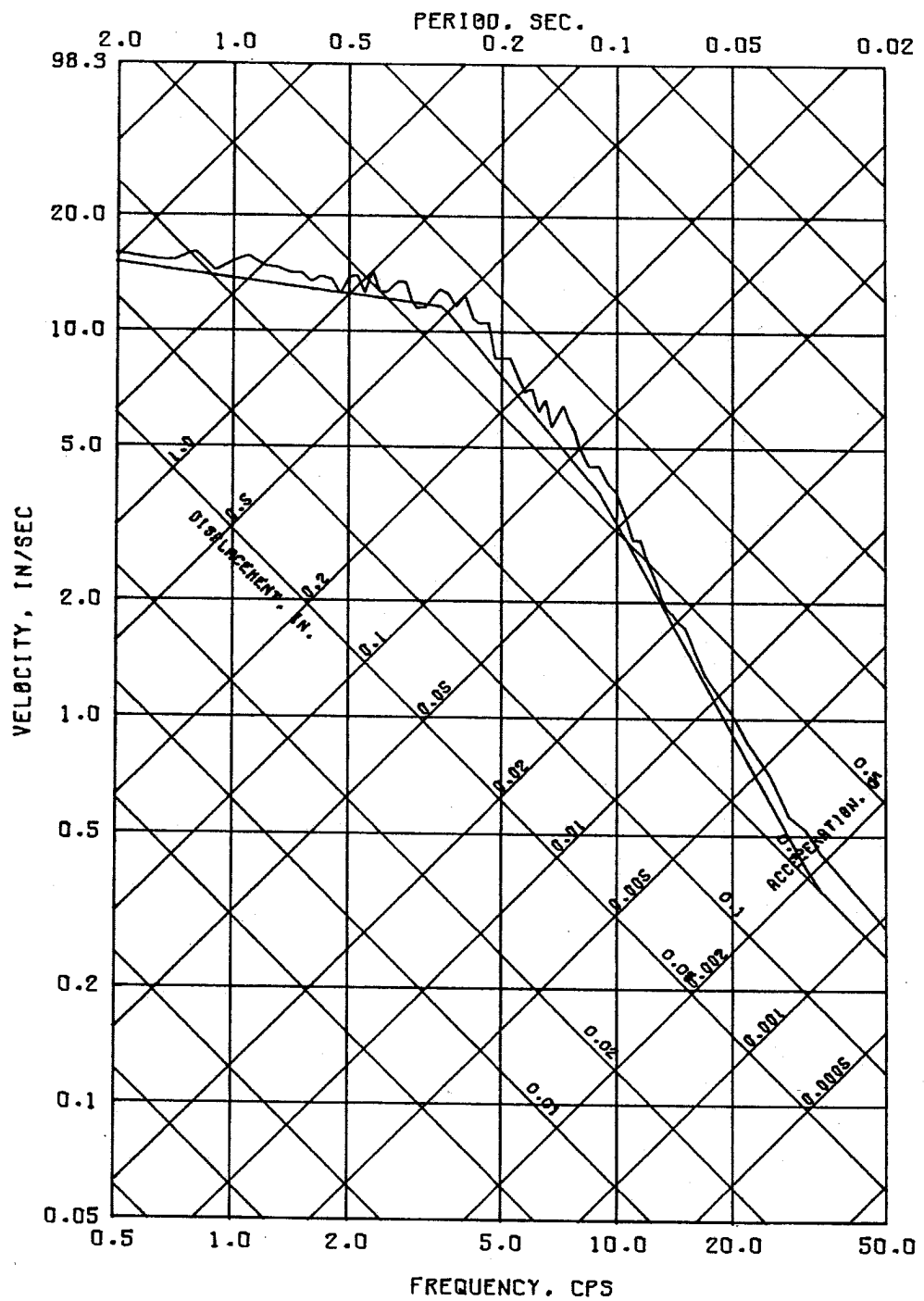


SLV MATCH WITH VERT R.G. SPEC 3 PER DAMP

CLINTON POWER STATION
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FIGURE 3.7-7

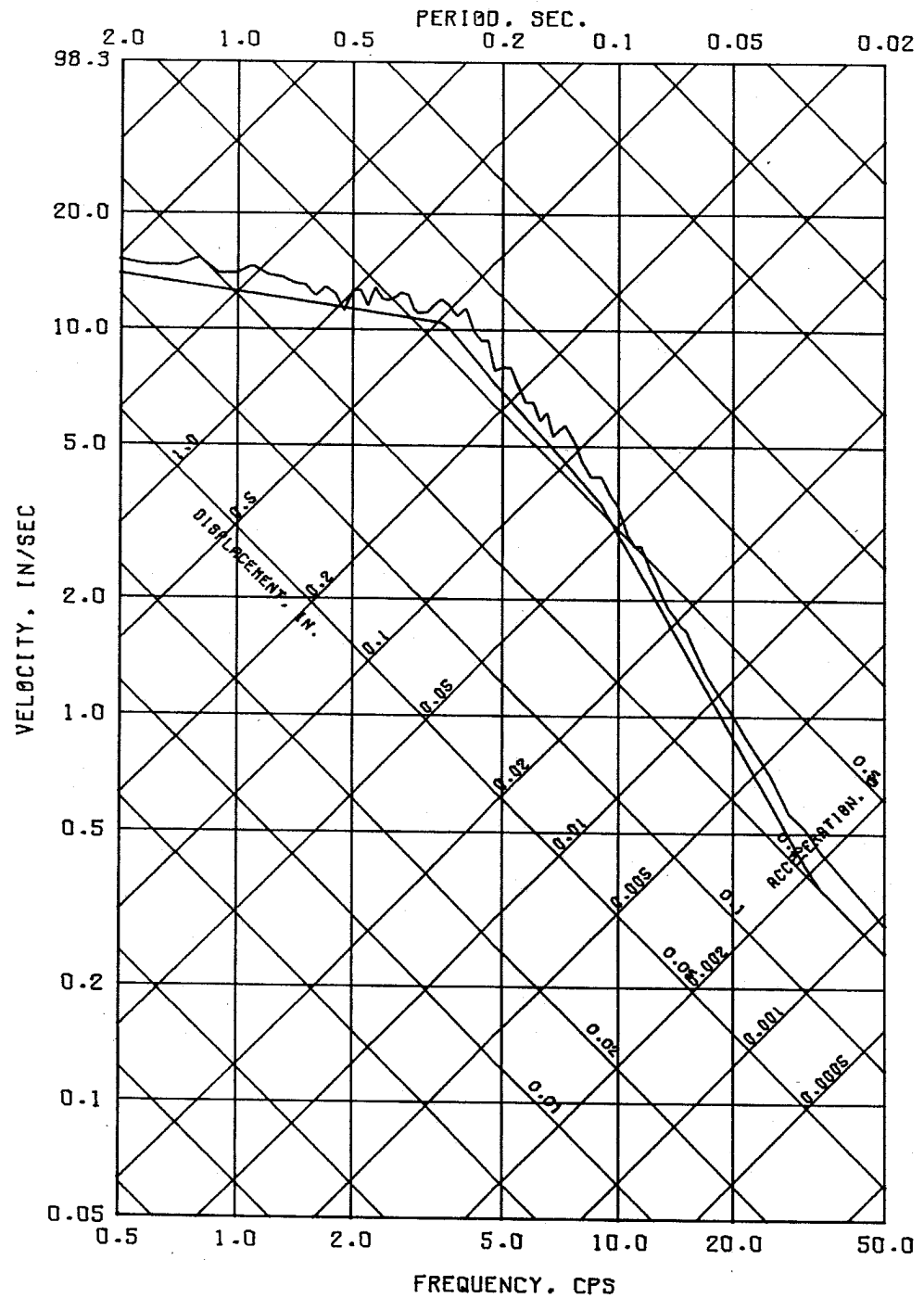
VERTICAL RESPONSE SPECTRA
(3% DAMPING)



SLV MATCH WITH VERT R.G. SPEC 4 PER DAMP

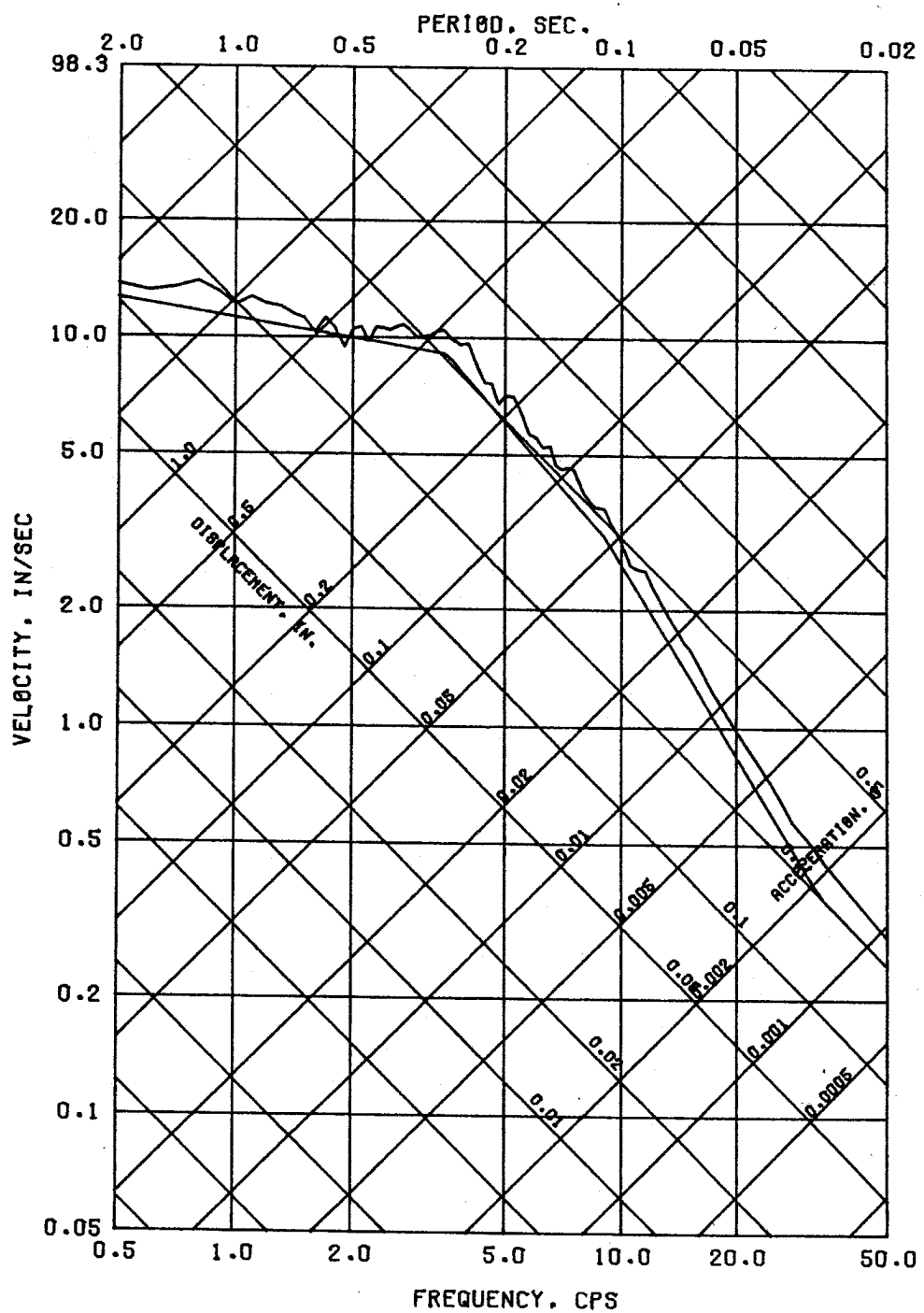
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UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.7-8
VERTICAL RESPONSE SPECTRA
(4% DAMPING)



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

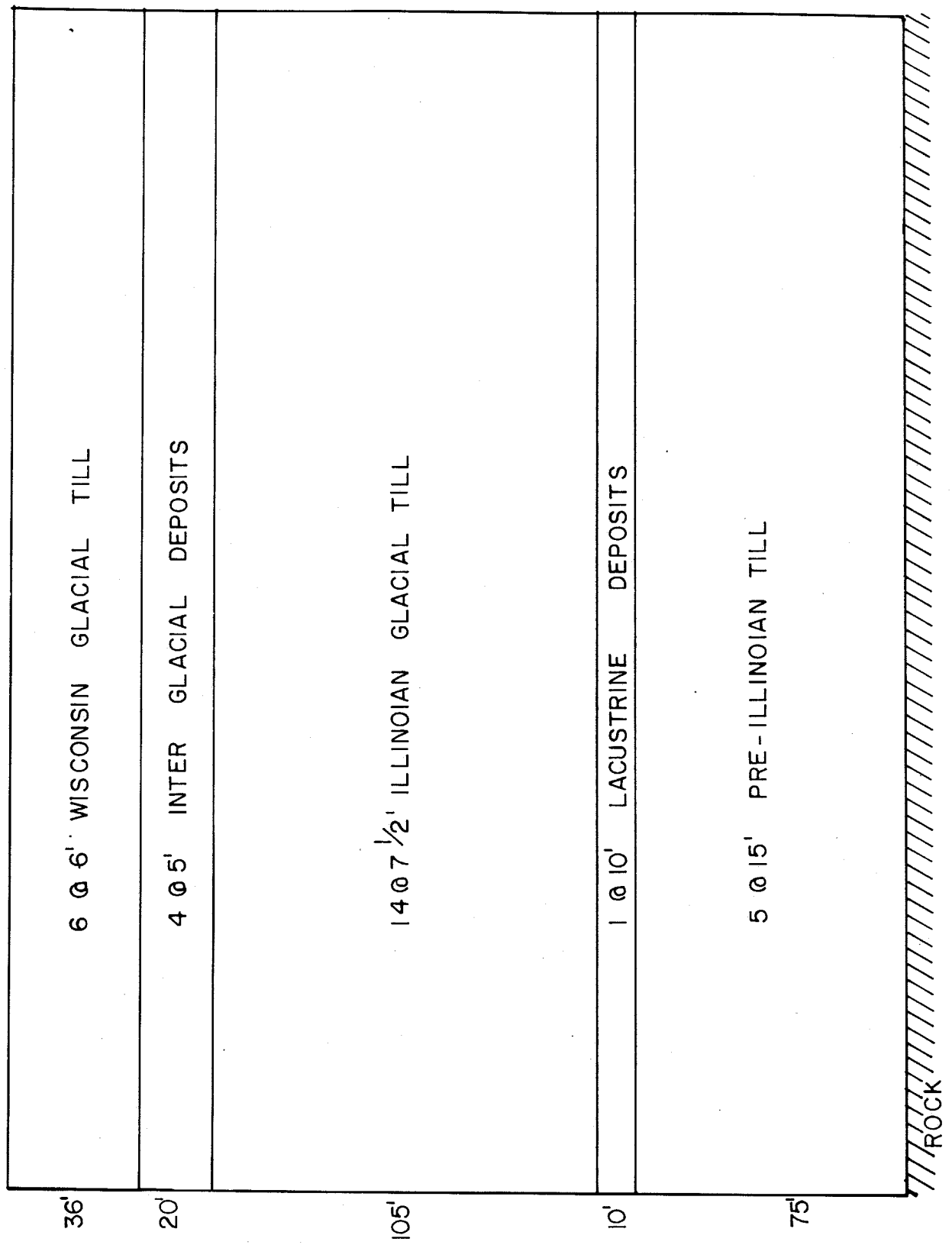
FIGURE 3.7-9
VERTICAL RESPONSE SPECTRA
(5% DAMPING)



SLV MATCH WITH VERT R.G. SPEC 7 PER DAMP

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

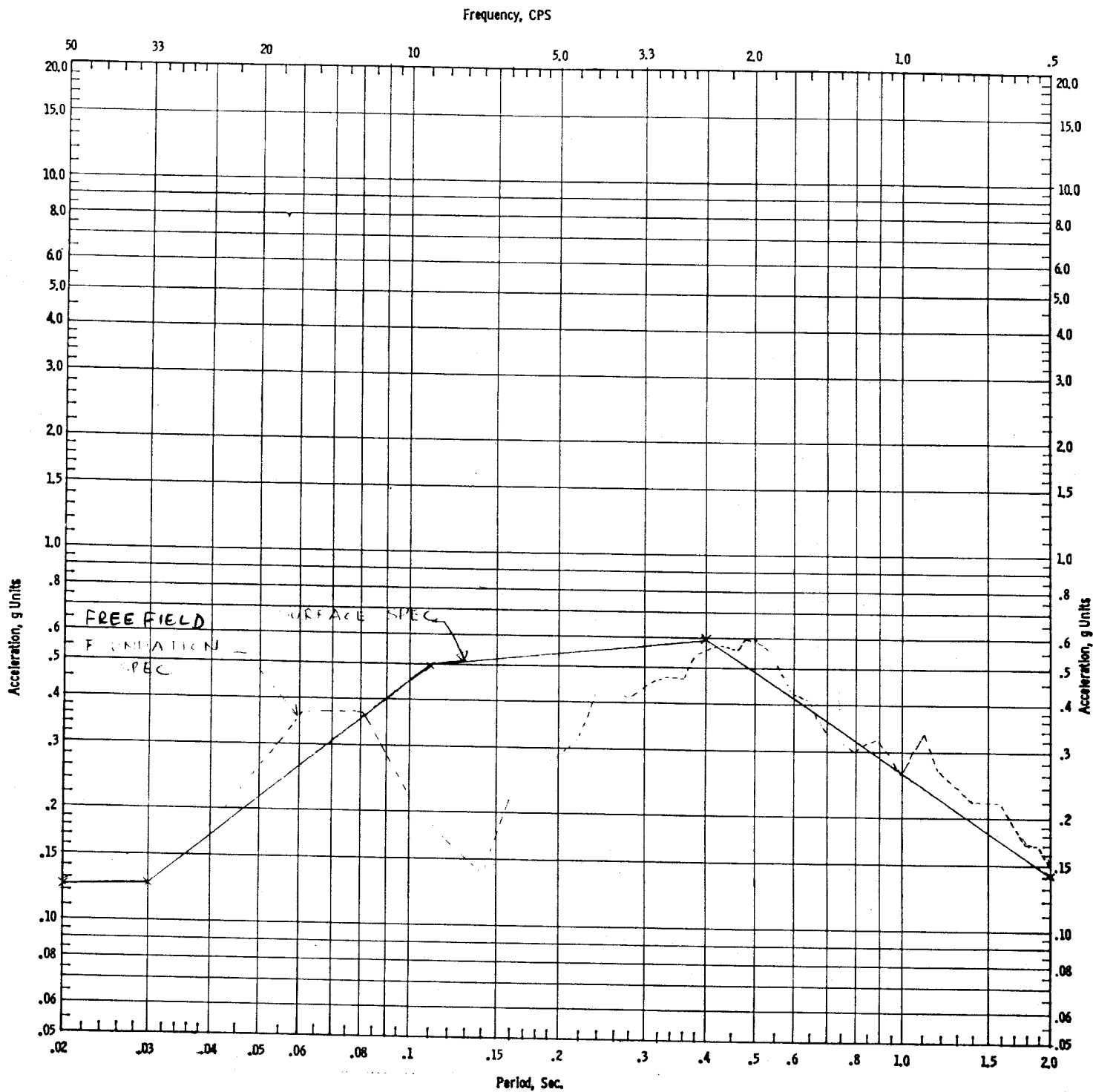
FIGURE 3.7-10
VERTICAL RESPONSE SPECTRA
(7% DAMPING)



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FIGURE 3.7-11

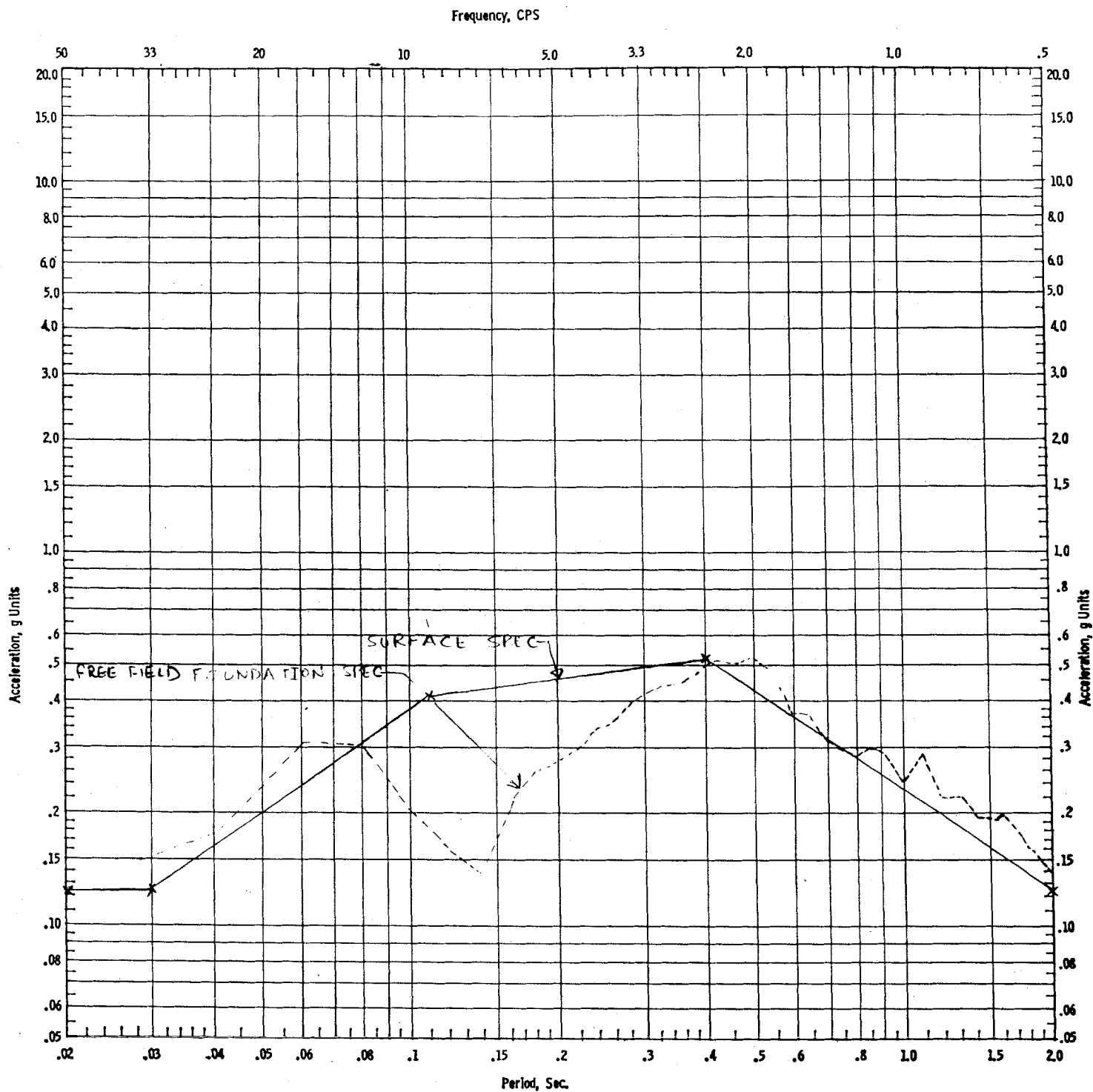
SOIL LAYERING MODEL
USED IN SHAKE



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FIGURE 3.7-12

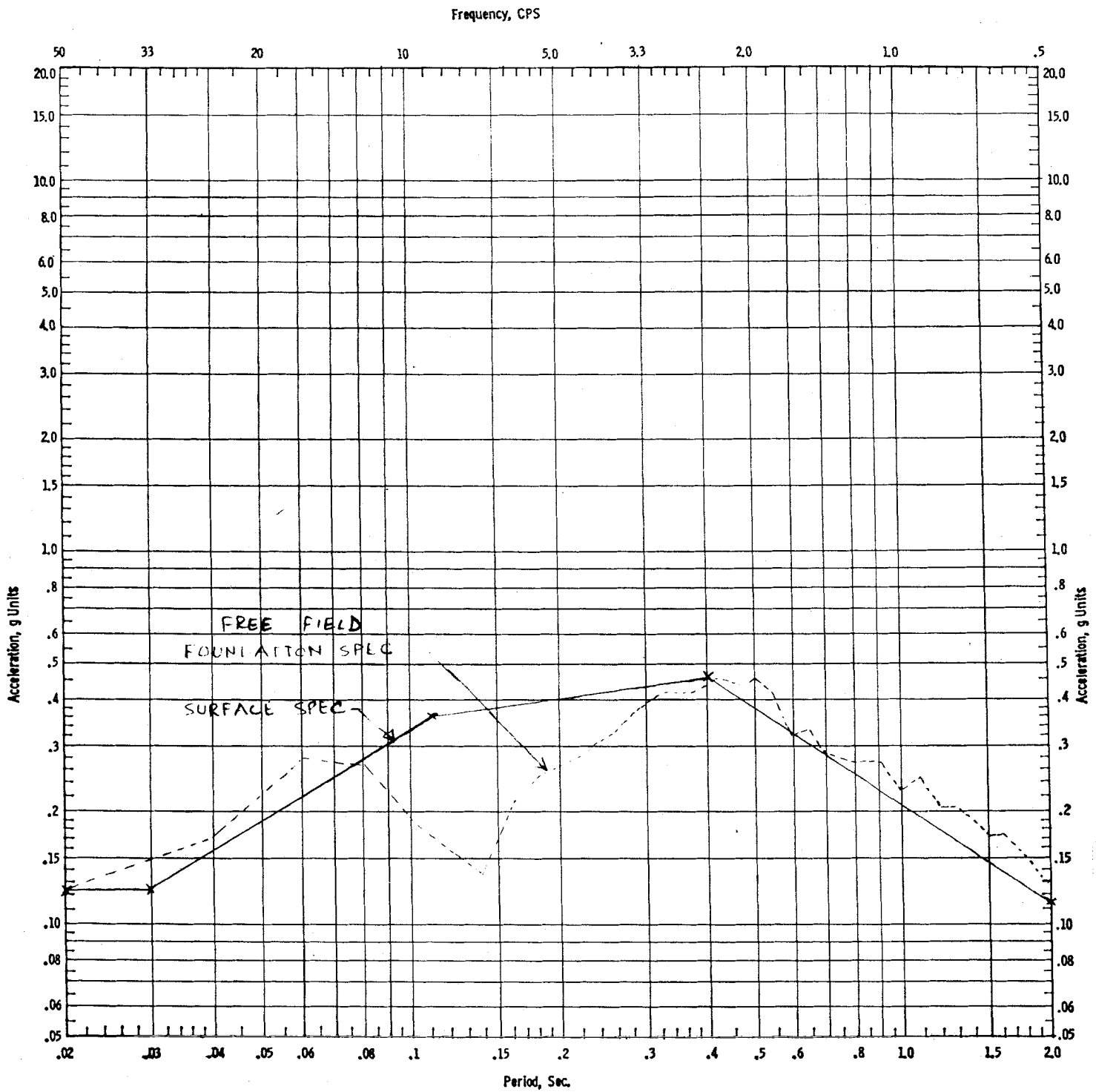
COMPARISON BETWEEN FREE FIELD
FOUNDATION AND SURFACE SPECTRA
FOR OBE HORIZONTAL 1% DAMPING



**CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT**

FIGURE 3.7-13

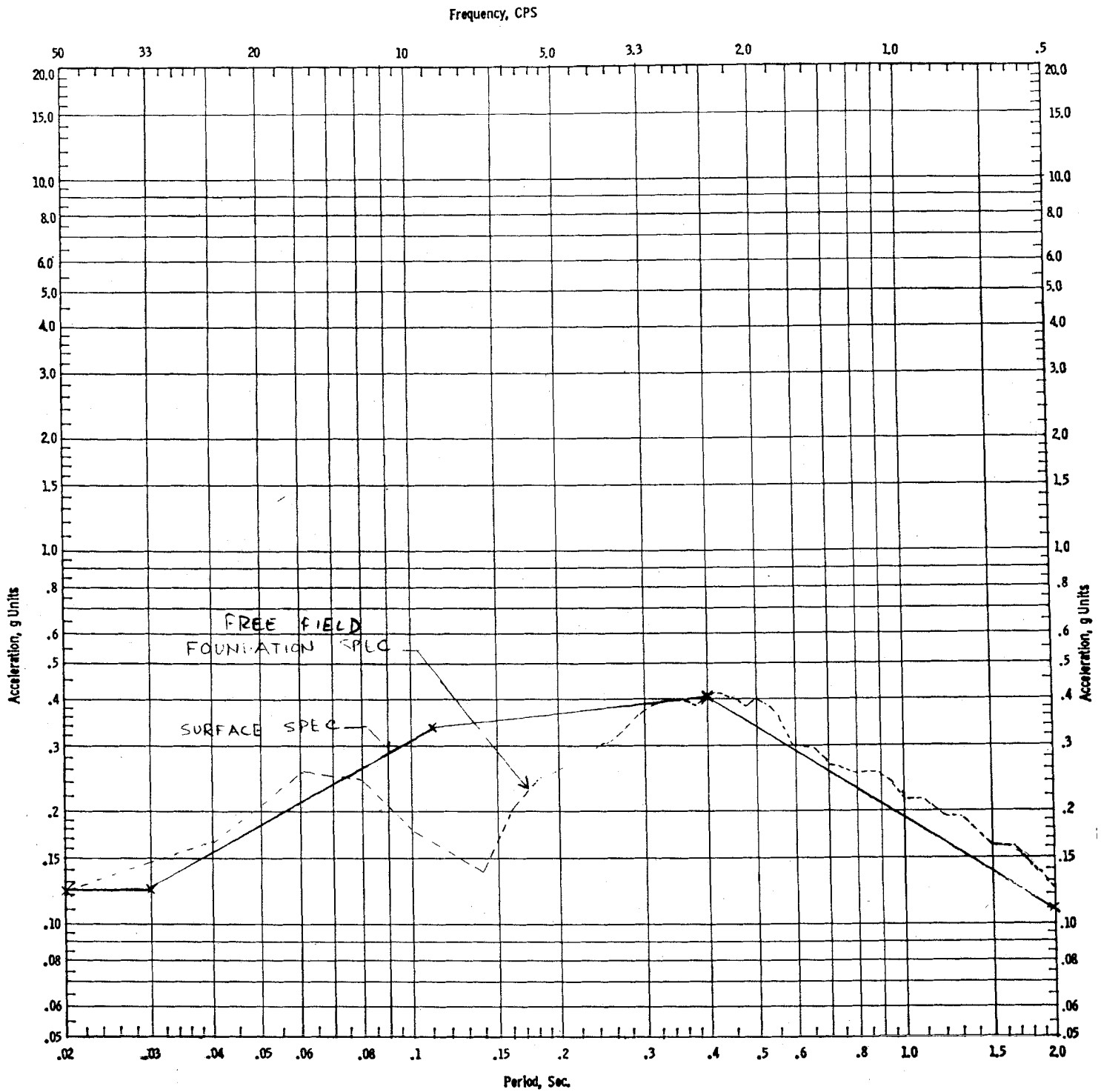
COMPARISON BETWEEN FREE FIELD
FOUNDATION AND SURFACE SPECTRA
FOR OBE HORIZONTAL 2% DAMPING



**CLINTON POWER STATION
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FIGURE 3.7-14

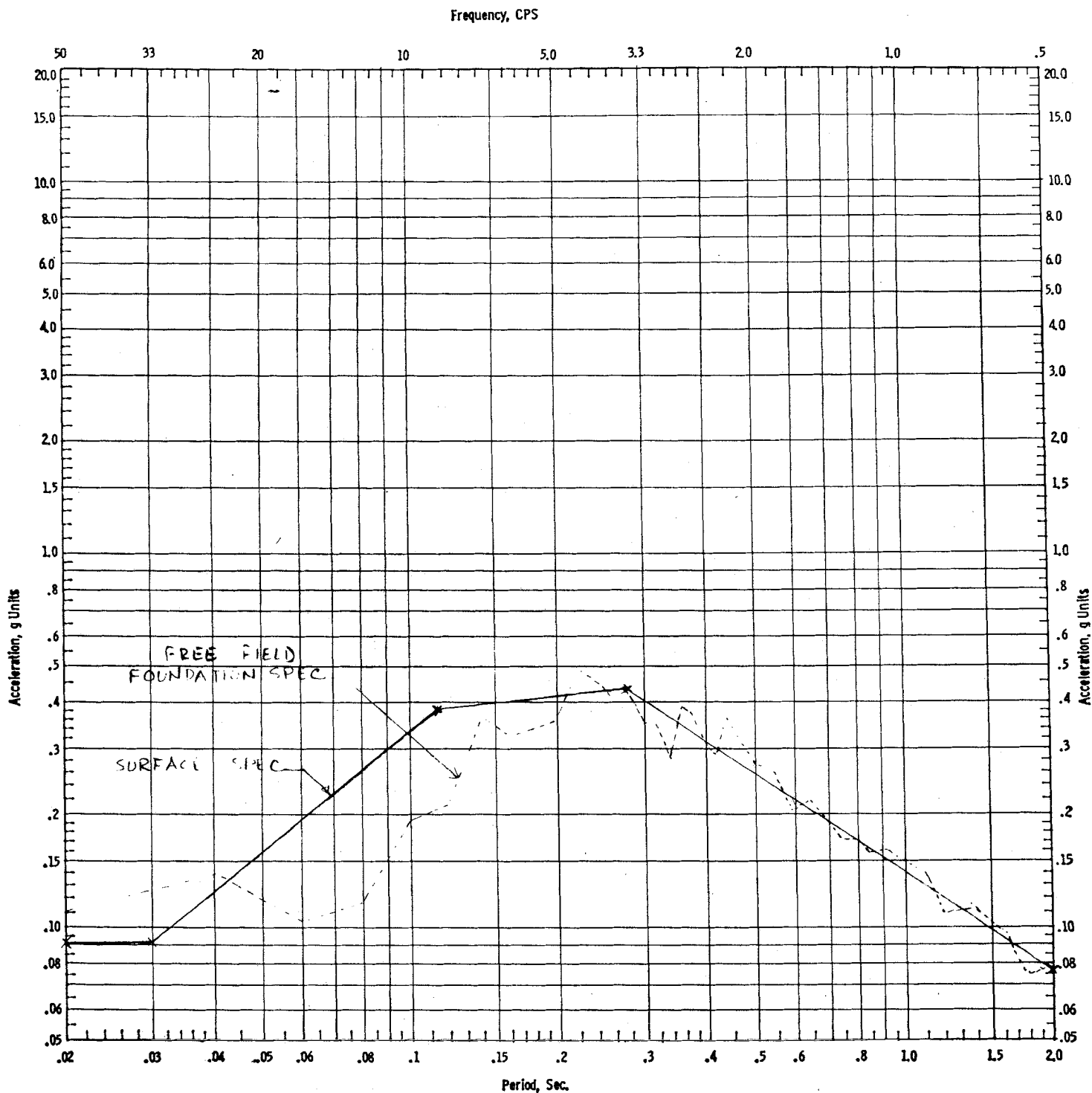
COMPARISON BETWEEN FREE FIELD
FOUNDATION AND SURFACE SPECTRA
FOR OBE HORIZONTAL 3% DAMPING



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FIGURE 3.7-15

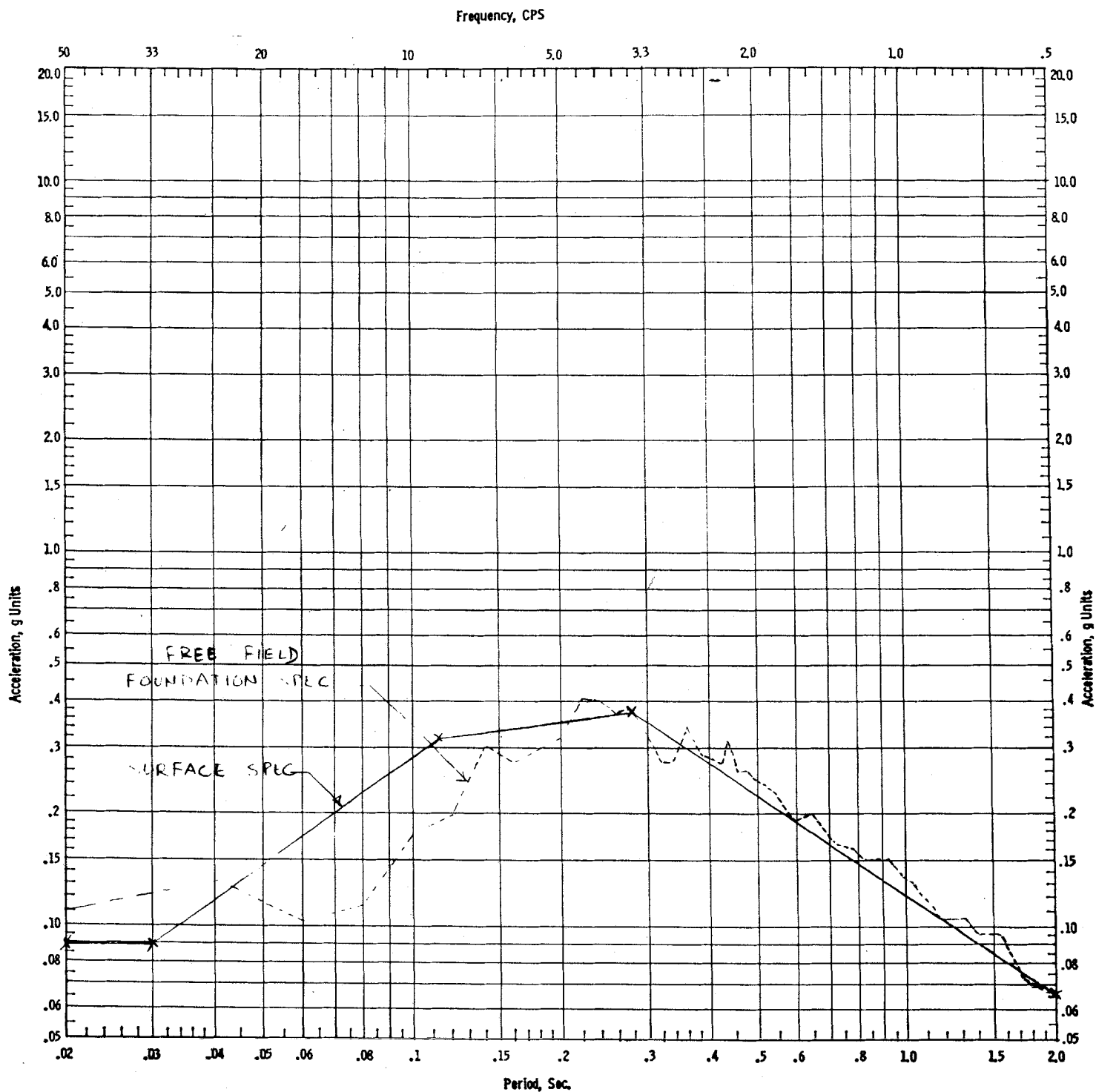
COMPARISON BETWEEN FREE FIELD
FOUNDATION AND SURFACE SPECTRA
FOR OBE HORIZONTAL 4% DAMPING



**CLINTON POWER STATION
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FIGURE 3.7-16

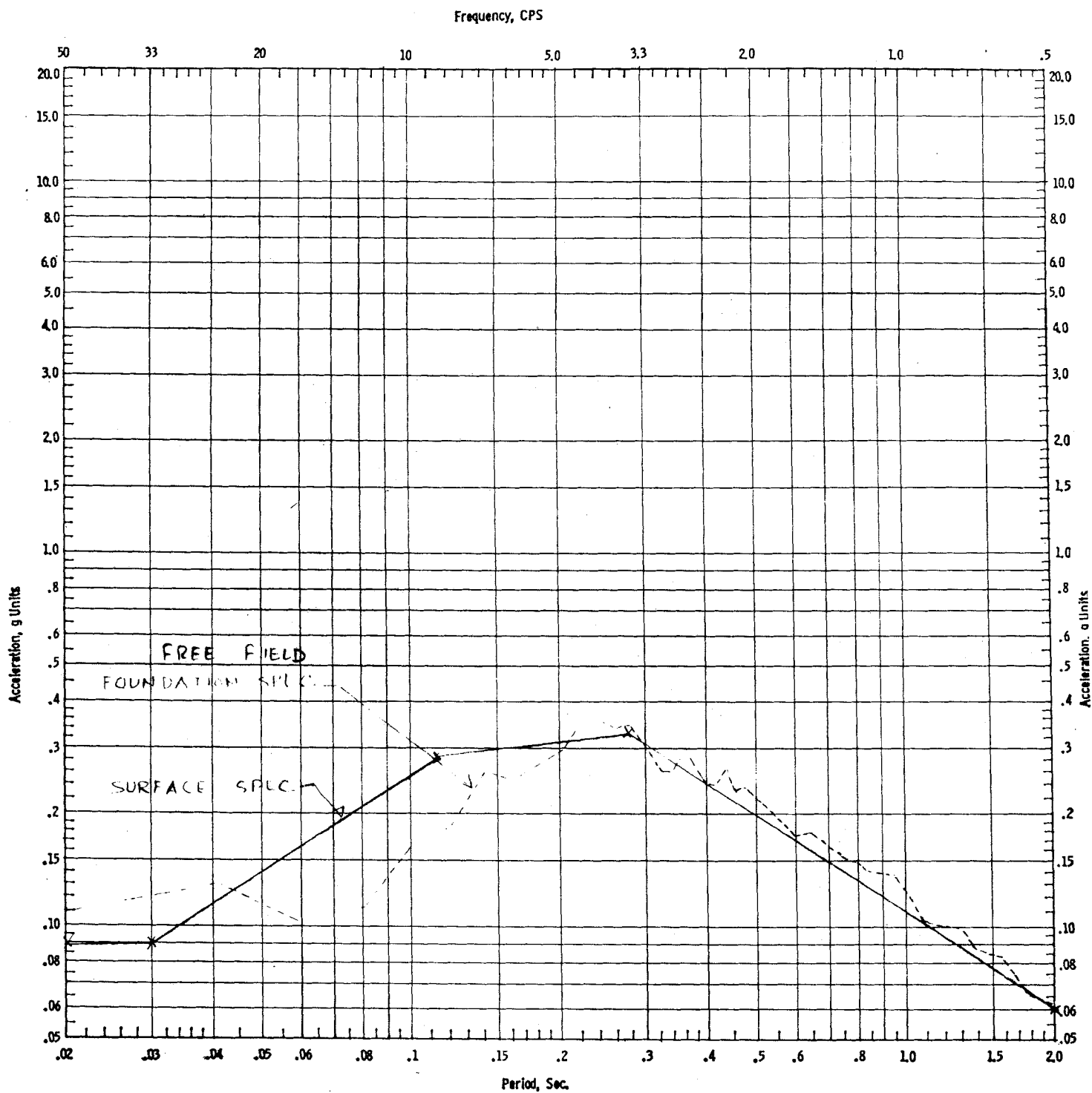
COMPARISON BETWEEN FREE FIELD
FOUNDATION AND SURFACE SPECTRA
FOR OBE VERTICAL 1% DAMPING



**CLINTON POWER STATION
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FIGURE 3.7-17

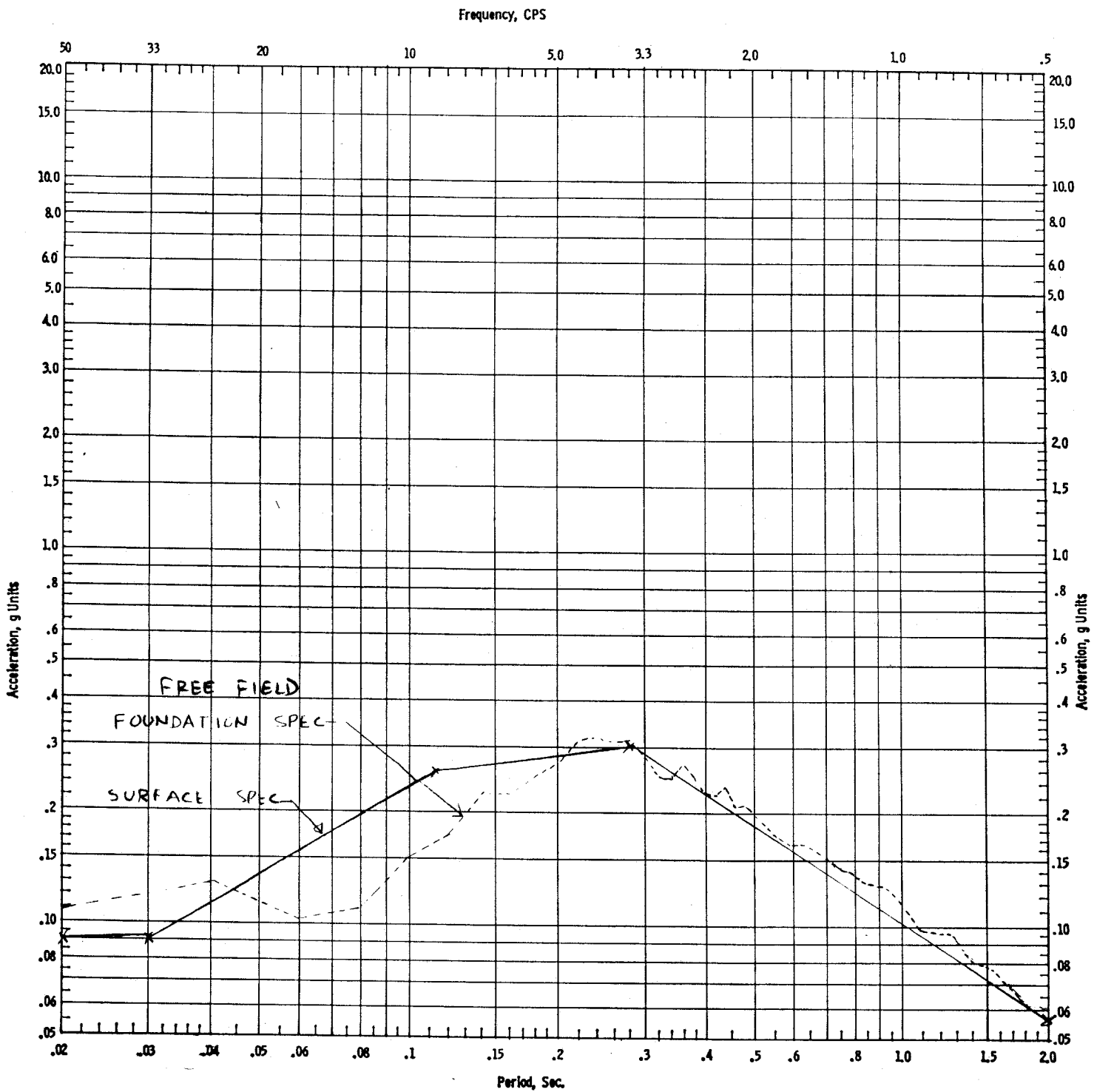
COMPARISON BETWEEN FREE FIELD
FOUNDATION AND SURFACE SPECTRA
FOR OBE VERTICAL 2% DAMPING



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FIGURE 3.7-18

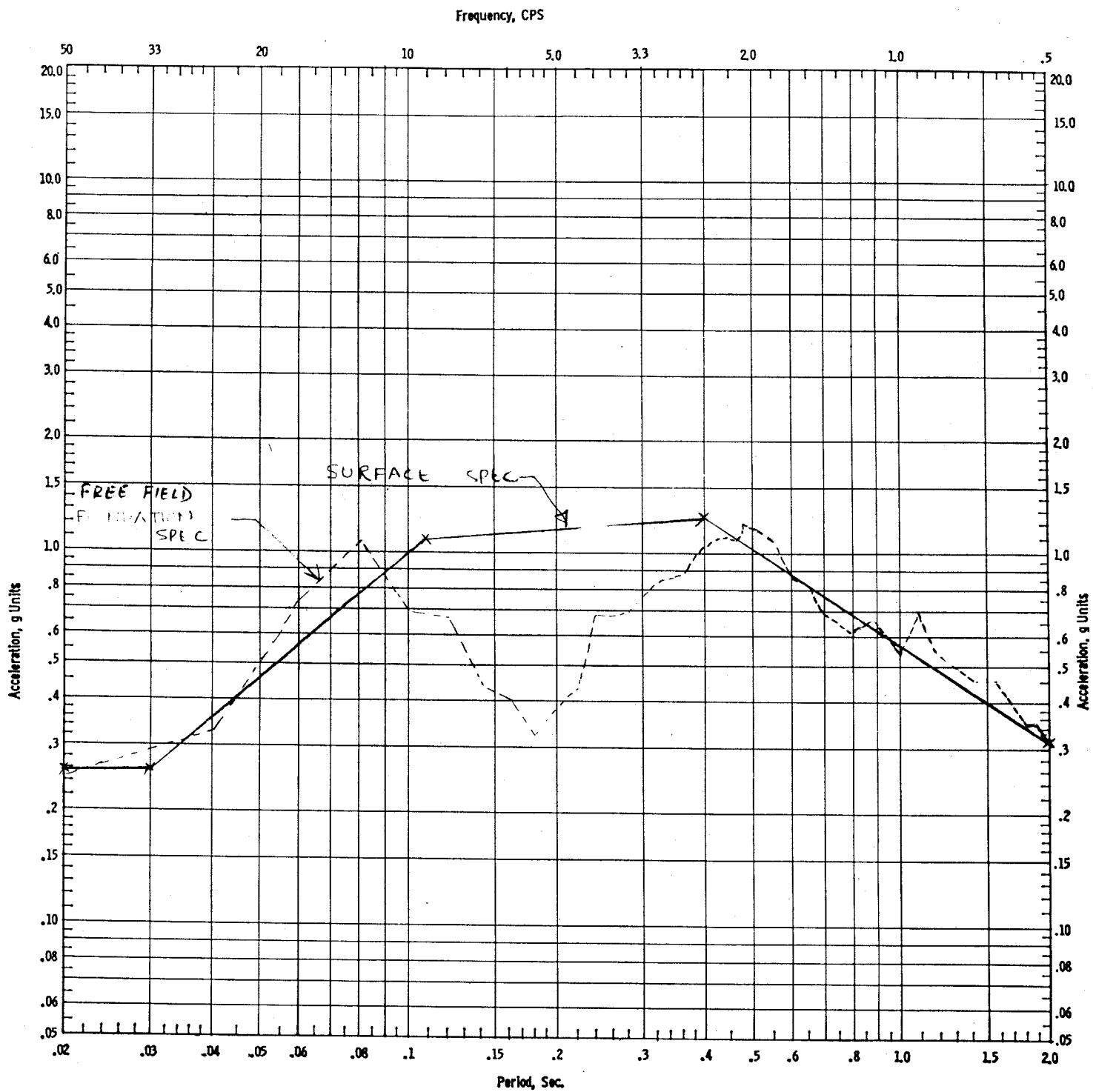
COMPARISON BETWEEN FREE FIELD
FOUNDATION AND SURFACE SPECTRA
FOR OBE VERTICAL 3% DAMPING



**CLINTON POWER STATION
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FIGURE 3.7-19

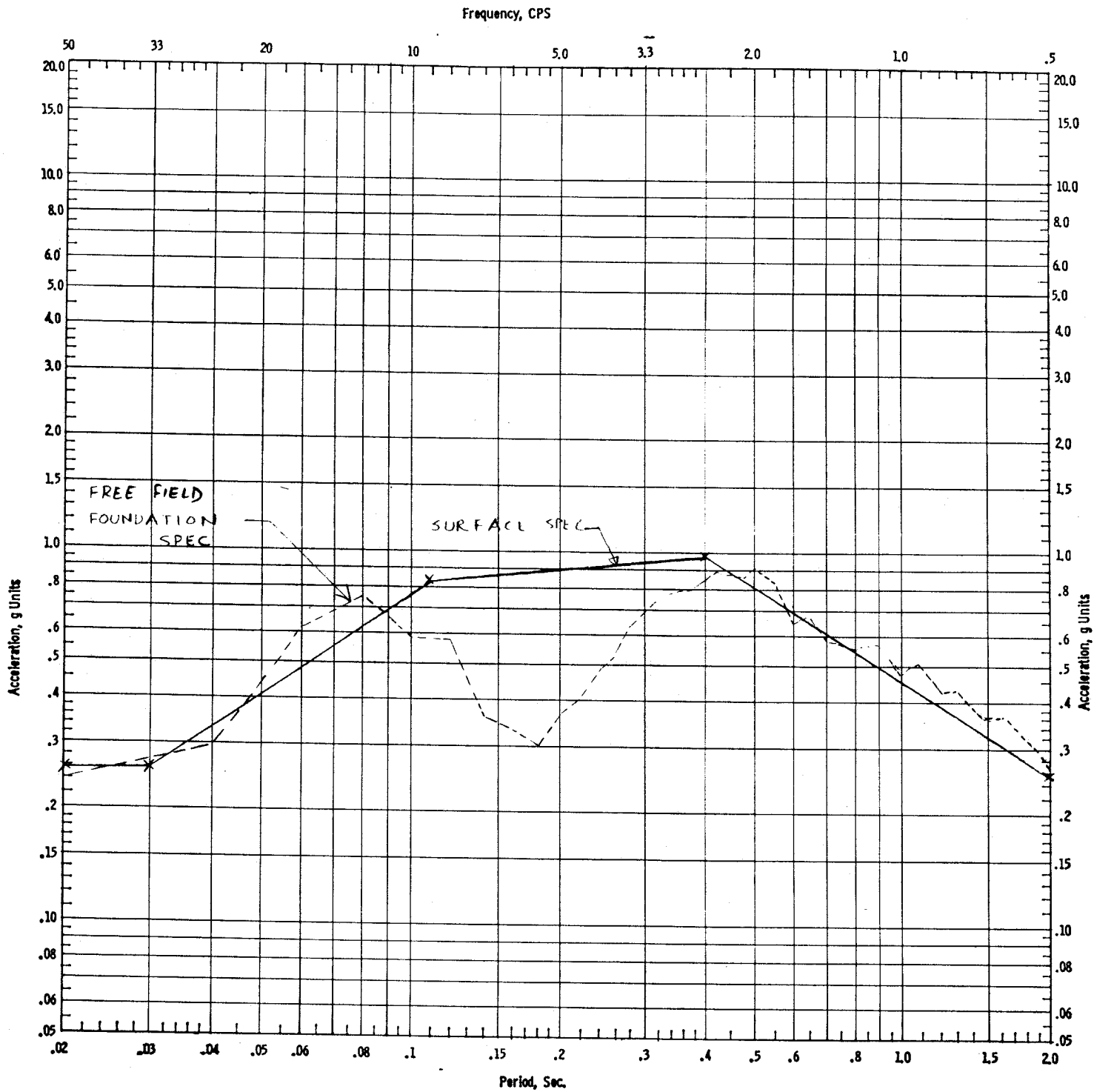
COMPARISON BETWEEN FREE FIELD
FOUNDATION AND SURFACE SPECTRA
FOR OBE VERTICAL 4% DAMPING



**CLINTON POWER STATION
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FIGURE 3.7-20

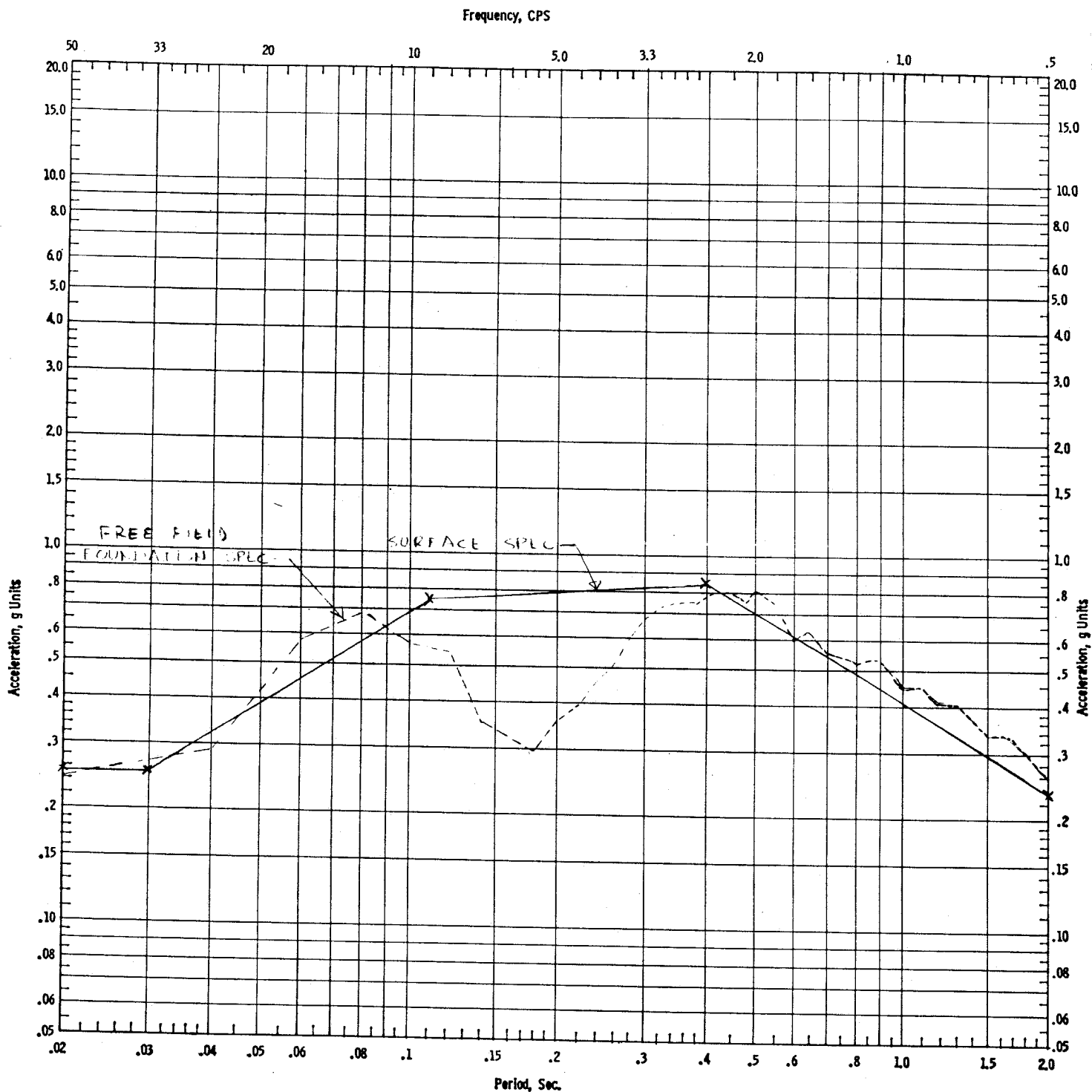
COMPARISON BETWEEN FREE FIELD
FOUNDATION AND SURFACE SPECTRA
FOR SSE HORIZONTAL 1% DAMPING



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FIGURE 3.7-21

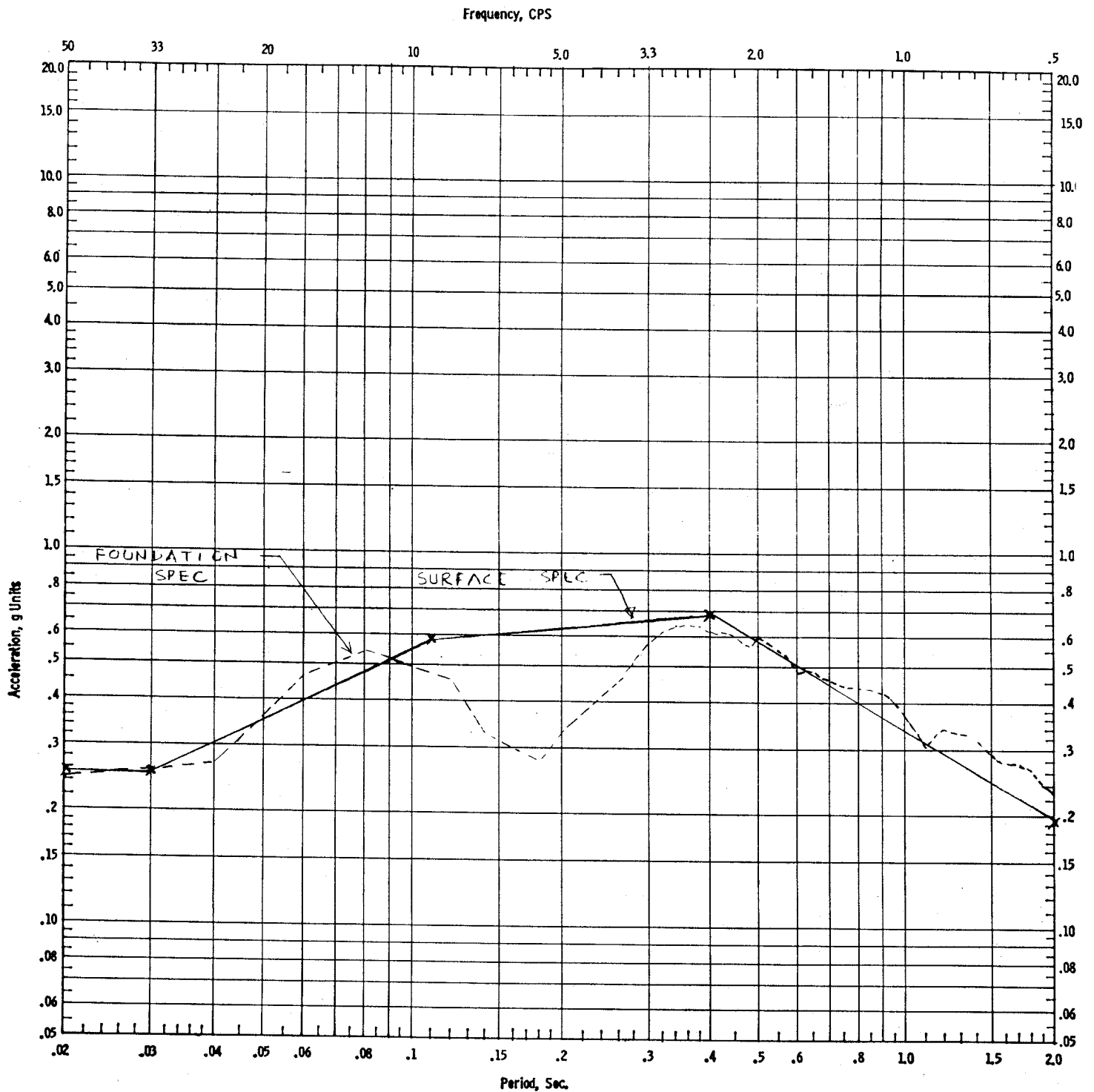
COMPARISON BETWEEN FREE FIELD
FOUNDATION AND SURFACE SPECTRA
FOR SSE HORIZONTAL 3% DAMPING



**CLINTON POWER STATION
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FIGURE 3.7-22

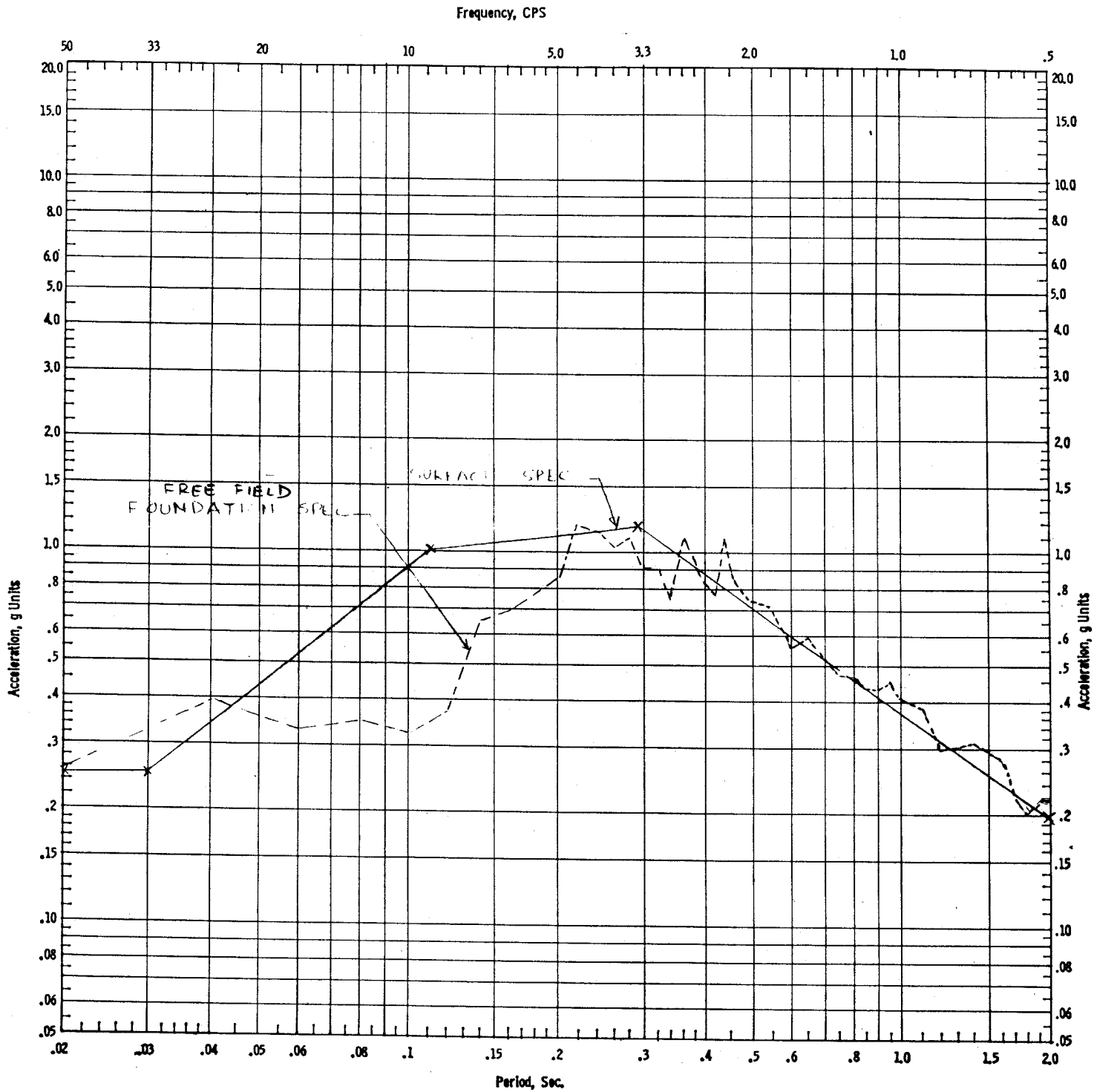
COMPARISON BETWEEN FREE FIELD
FOUNDATION AND SURFACE SPECTRA
FOR SSE HORIZONTAL 4% DAMPING



CLINTON POWER STATION
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FIGURE 3.7-23

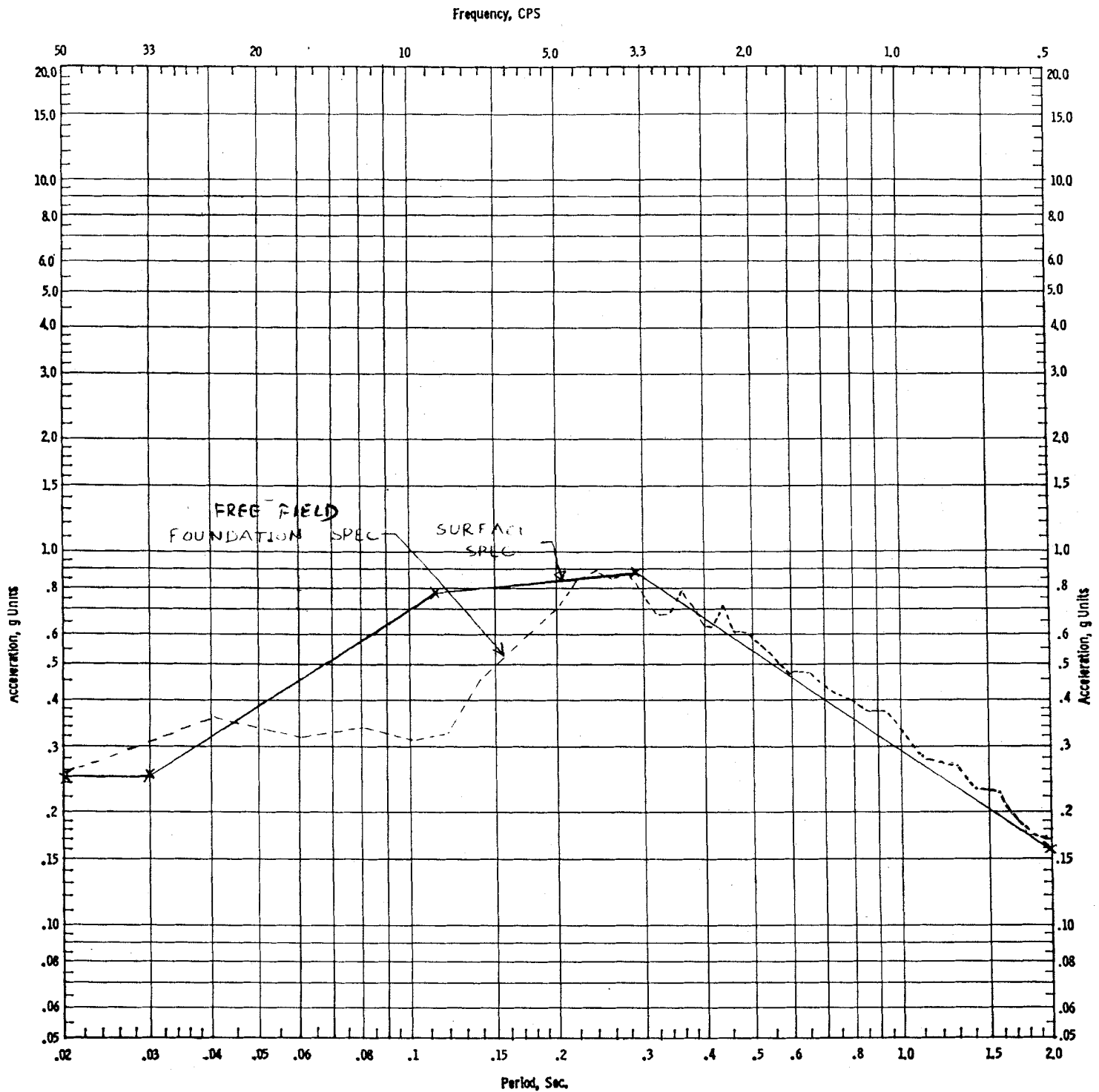
COMPARISON BETWEEN FREE FIELD
FOUNDATION AND SURFACE SPECTRA
FOR SSE HORIZONTAL 7% DAMPING



**CLINTON POWER STATION
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FIGURE 3.7-24

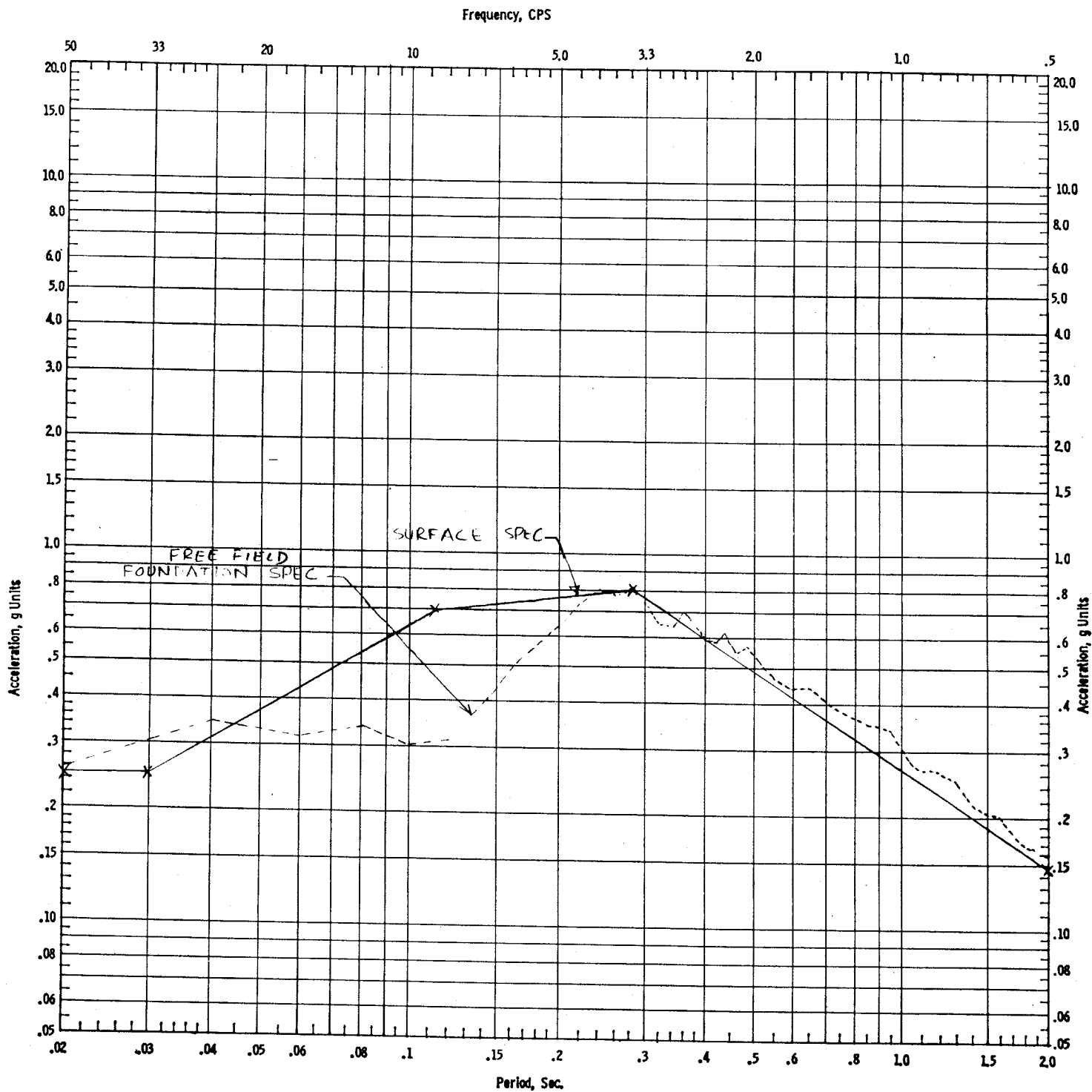
COMPARISON BETWEEN FREE FIELD
FOUNDATION AND SURFACE SPECTRA
FOR SSE VERTICAL 1% DAMPING



**CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT**

FIGURE 3.7-25

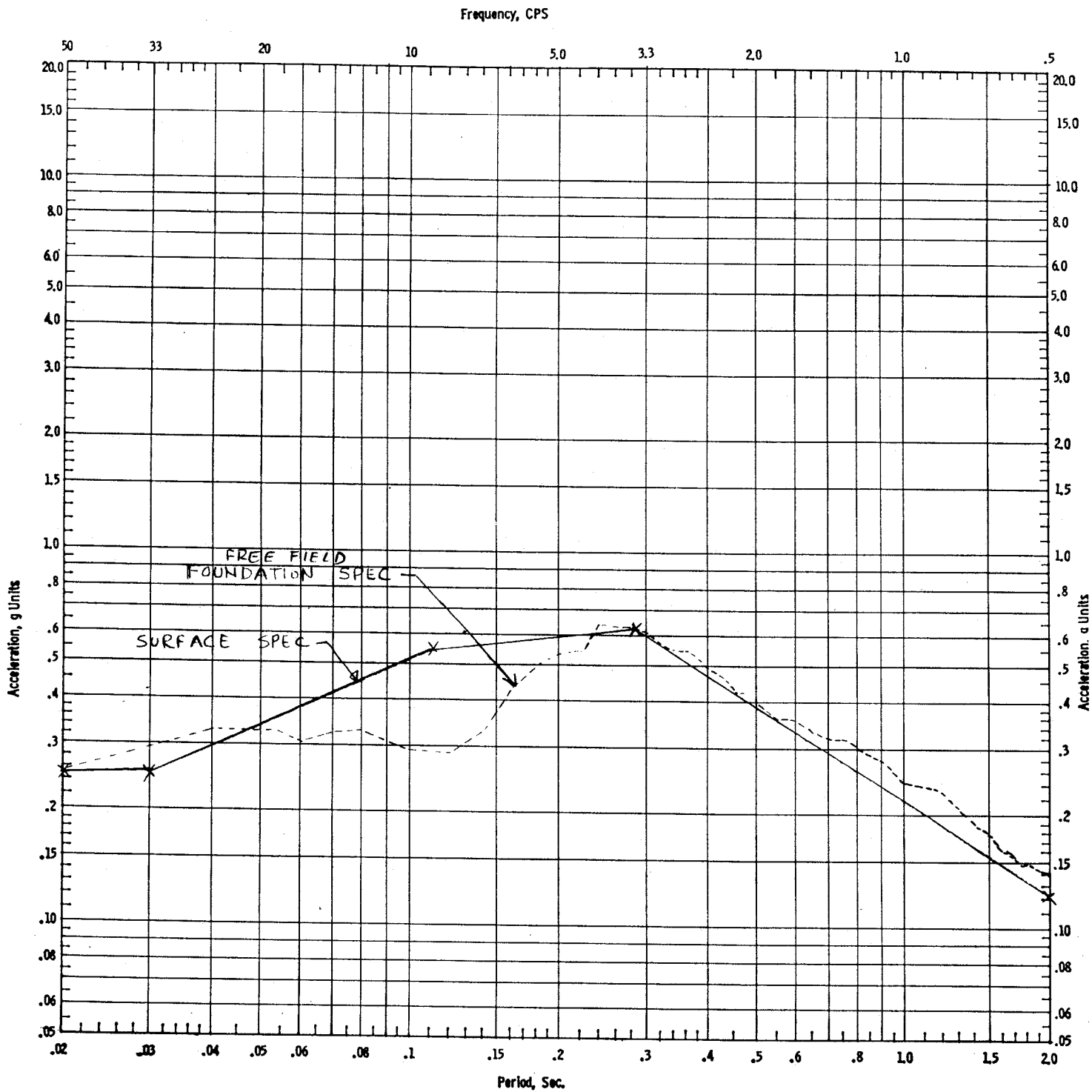
COMPARISON BETWEEN FREE FIELD
FOUNDATION AND SURFACE SPECTRA
FOR SSE VERTICAL 3% DAMPING



**CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT**

FIGURE 3.7-26

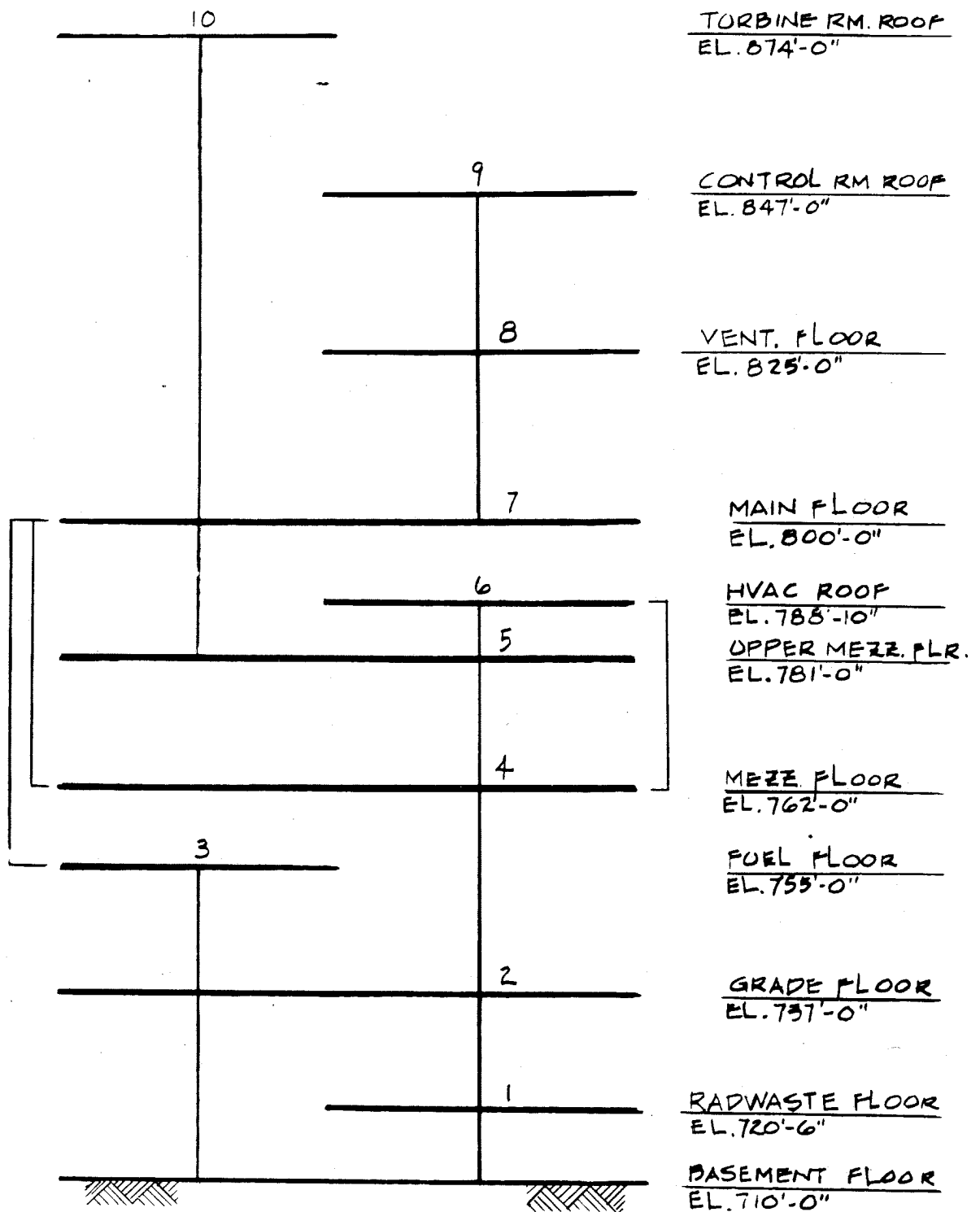
COMPARISON BETWEEN FREE FIELD
FOUNDATION AND SURFACE SPECTRA
FOR SSE VERTICAL 4% DAMPING



**CLINTON POWER STATION
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FIGURE 3.7-27

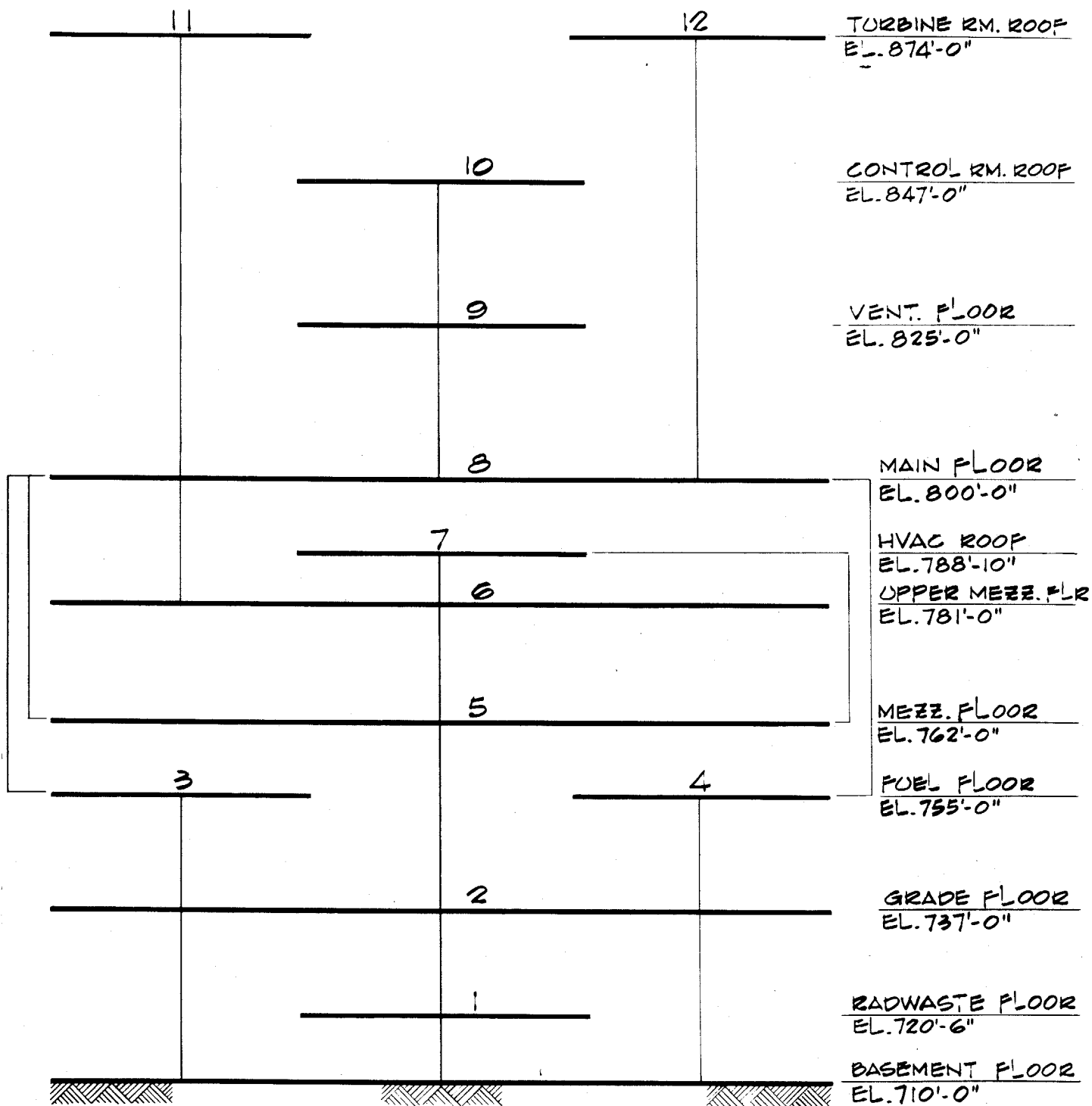
COMPARISON BETWEEN FREE FIELD
FOUNDATION AND SURFACE SPECTRA
FOR SSE VERTICAL 7% DAMPING



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FIGURE 3.7-28

ONE UNIT - HORIZONTAL
BUILDING MODEL

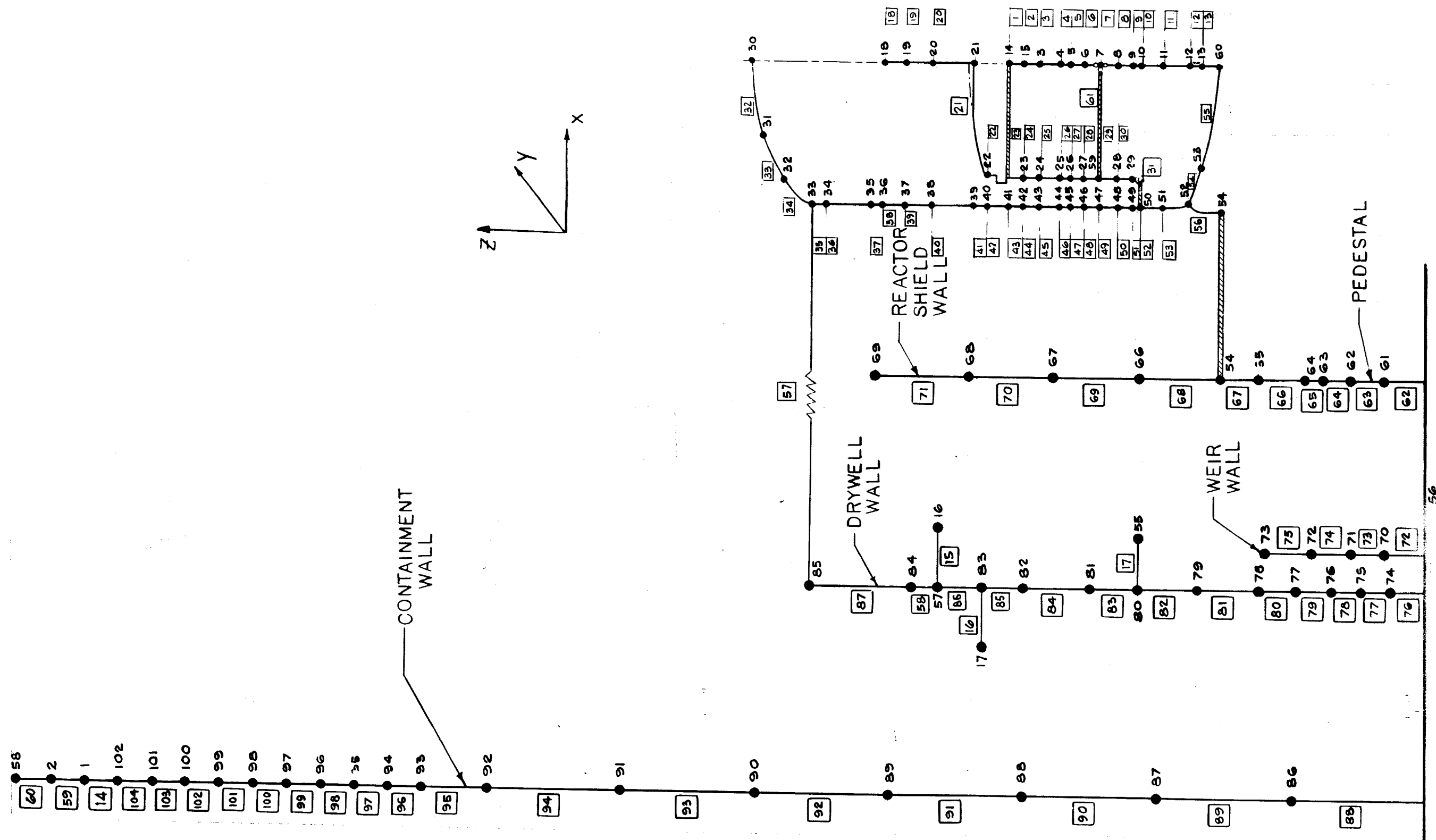


NOTE: UNIT 2 HAS BEEN CANCELLED.

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FIGURE 3.7-29

TWO UNIT - HORIZONTAL
BUILDING MODEL

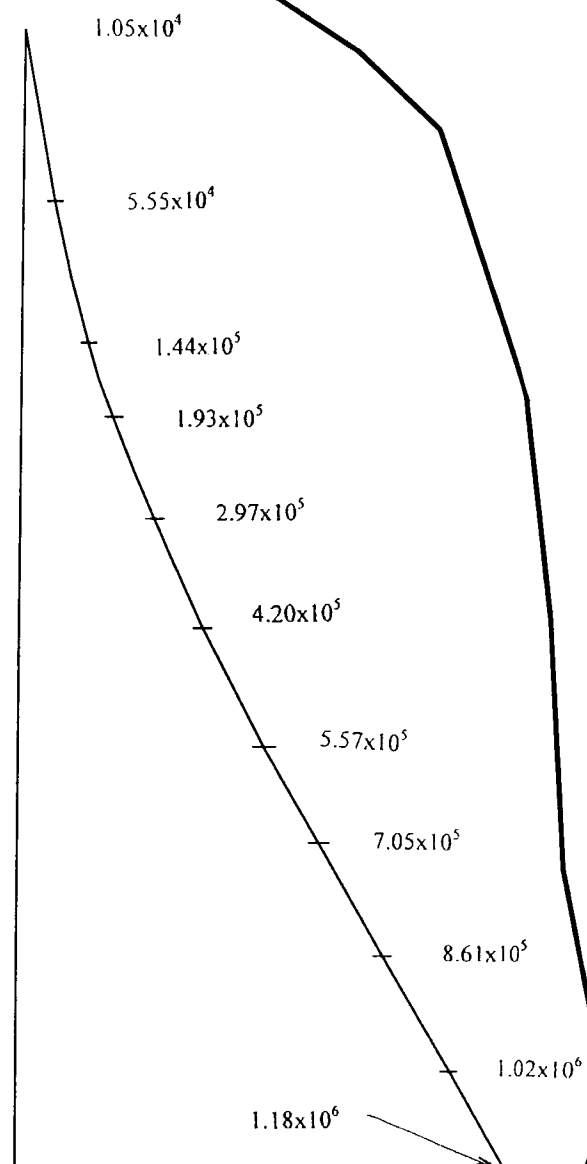
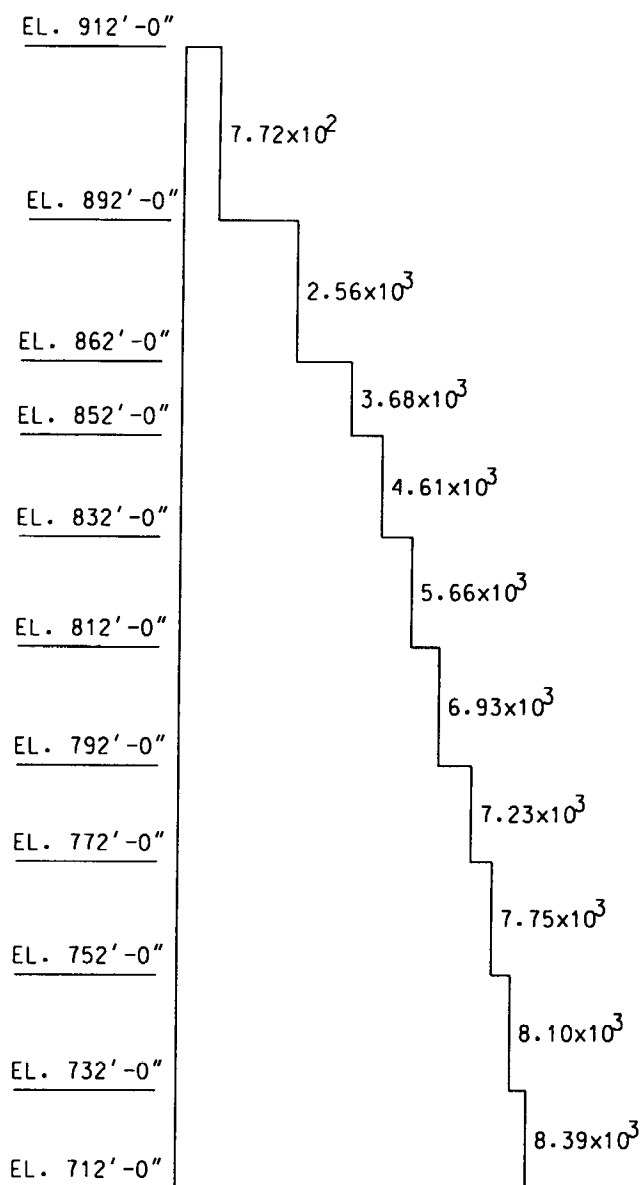


NOTE: NUMBERS IN □ REPRESENT ELEMENT NUMBERS.

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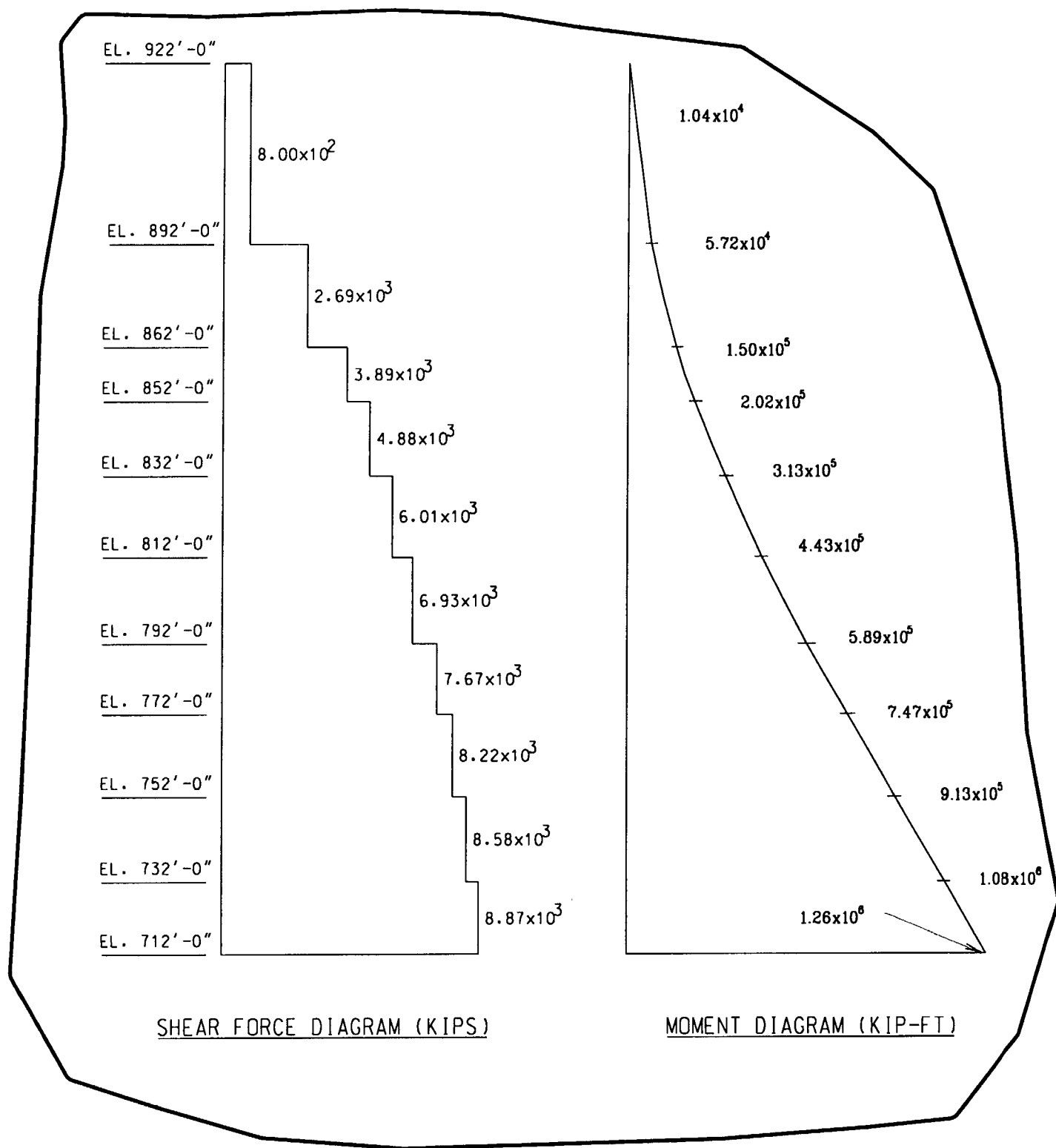
FIGURE 3.7-30

CONTAINMENT BUILDING
 HORIZONTAL MODEL



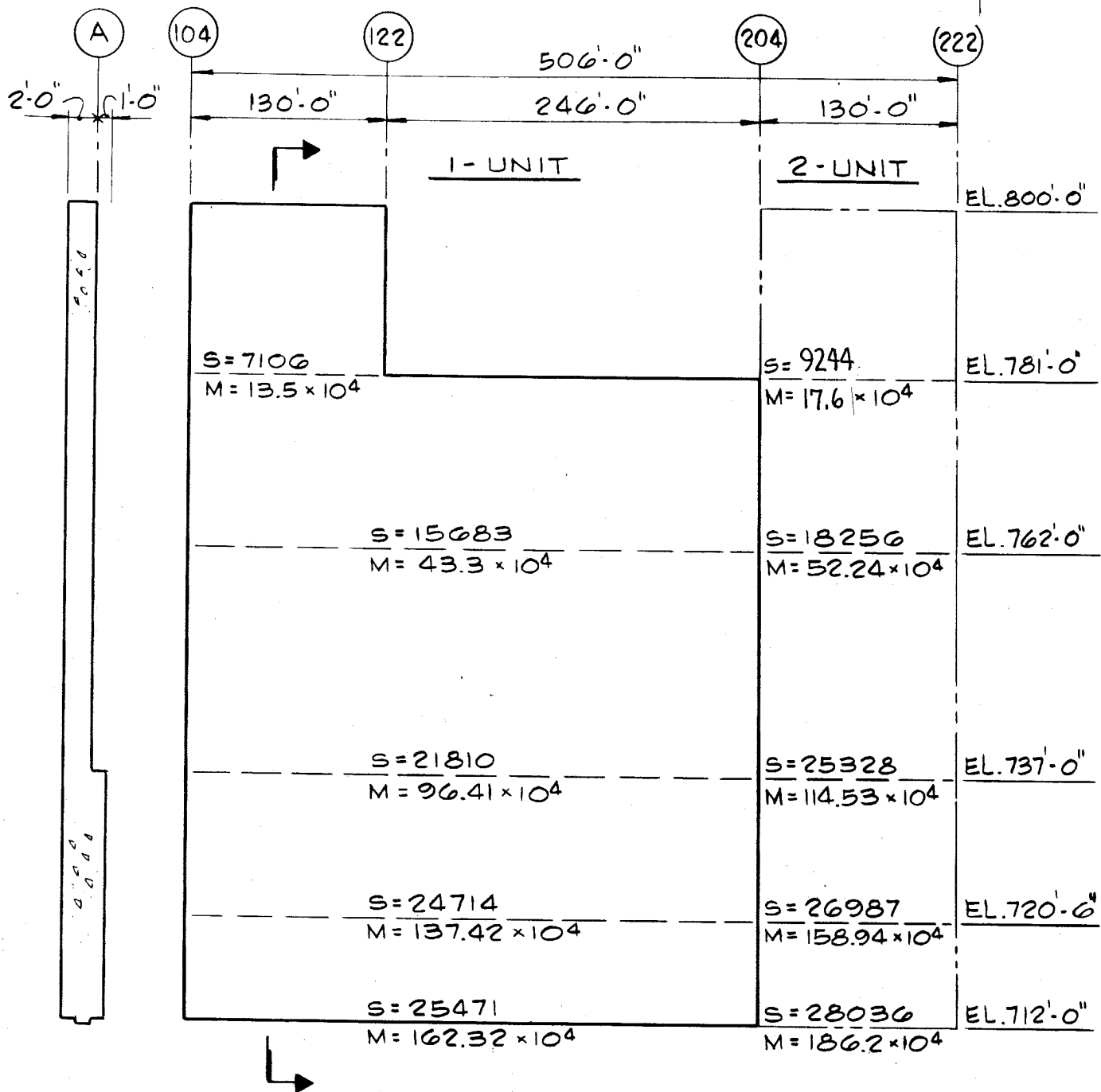
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FIGURE 3.7-31
SEISMIC RESPONSE LOADS (E-W)
FOR SSE FOR THE CONTAINMENT



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FIGURE 3.7-32
SEISMIC RESPONSE LOADS (N-S)
FOR SSE FOR THE CONTAINMENT



ELEVATION OF SHEAR WALL ALONG COLUMN ROW "A"

NOTES:

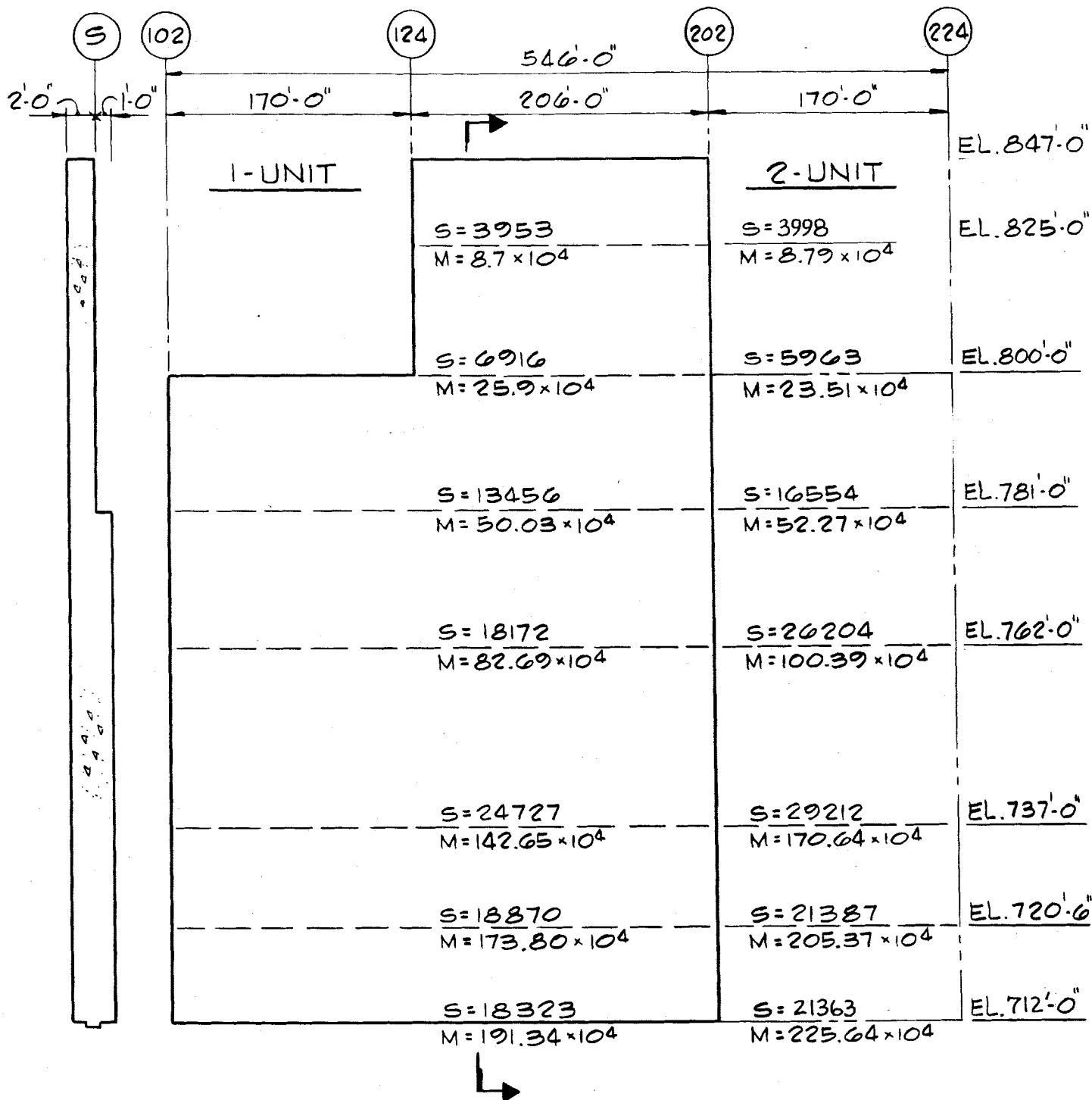
1. "S" DENOTES SHEAR FORCE (KIPS)
"M" DENOTES OVERTURNING MOMENTS (KIP-FT.)
2. SHEAR FORCES AND MOMENTS SHOWN ARE FOR SSE LOADING.

NOTE: UNIT 2 HAS BEEN CANCELLED.

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FIGURE 3.7-33

SEISMIC RESPONSE LOADS FOR SSE
FOR SHEAR WALLS - COLUMN ROW "A"



ELEVATION OF SHEAR WALL ALONG COLUMN ROW "S"

NOTES:

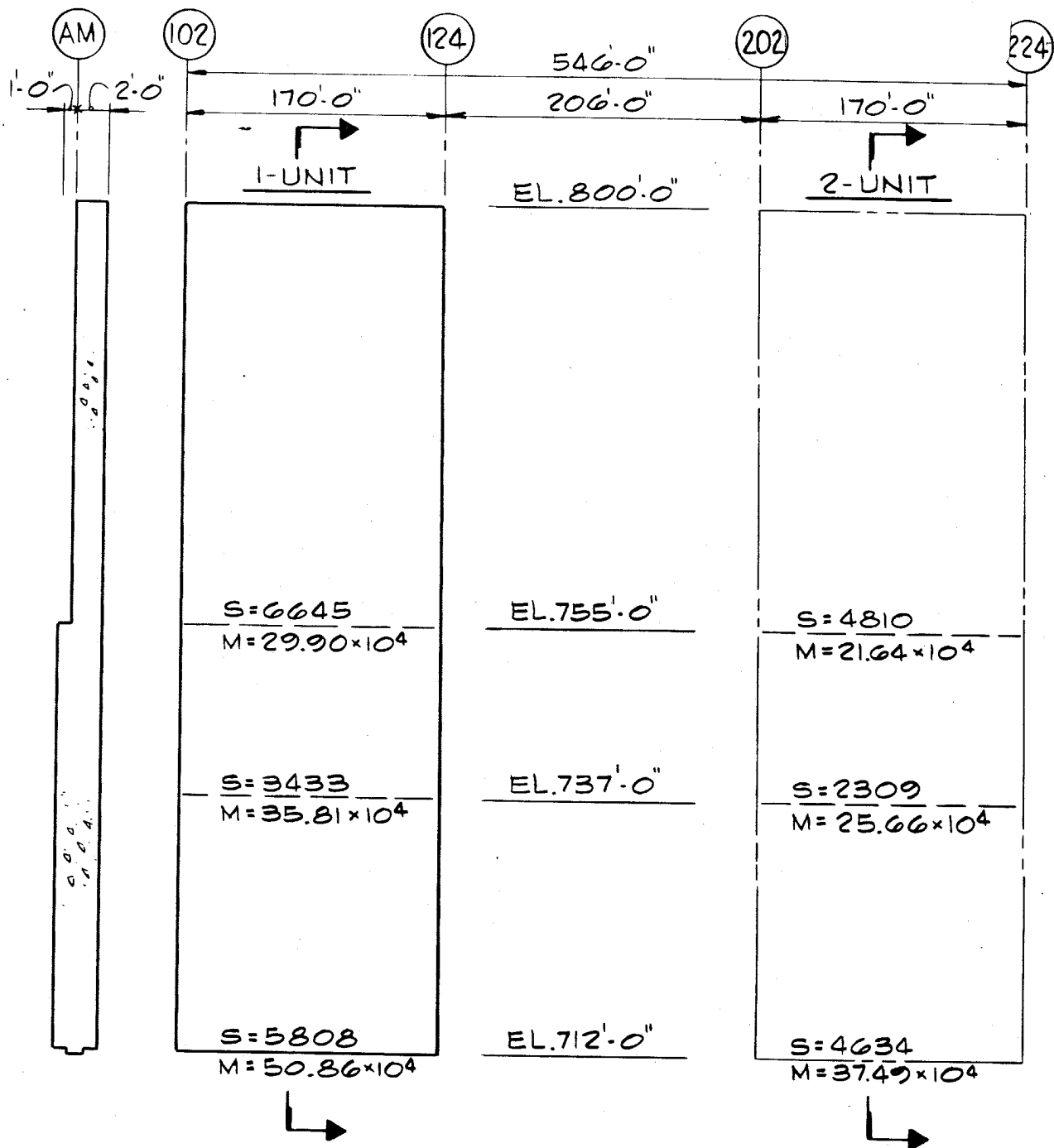
1. "S" DENOTES SHEAR FORCE (KIPS)
- "M" DENOTES OVERTURNING MOMENTS (KIP-FT.)
2. SHEAR FORCES AND MOMENTS SHOWN ARE FOR SSE LOADING.

NOTE: UNIT 2 HAS BEEN CANCELLED.

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FIGURE 3.7-34

SEISMIC RESPONSE LOAD FOR SSE
FOR SHEAR WALLS - COLUMN ROW "S"



ELEVATION OF SHEAR WALLS ALONG COLUMN ROW "AM"

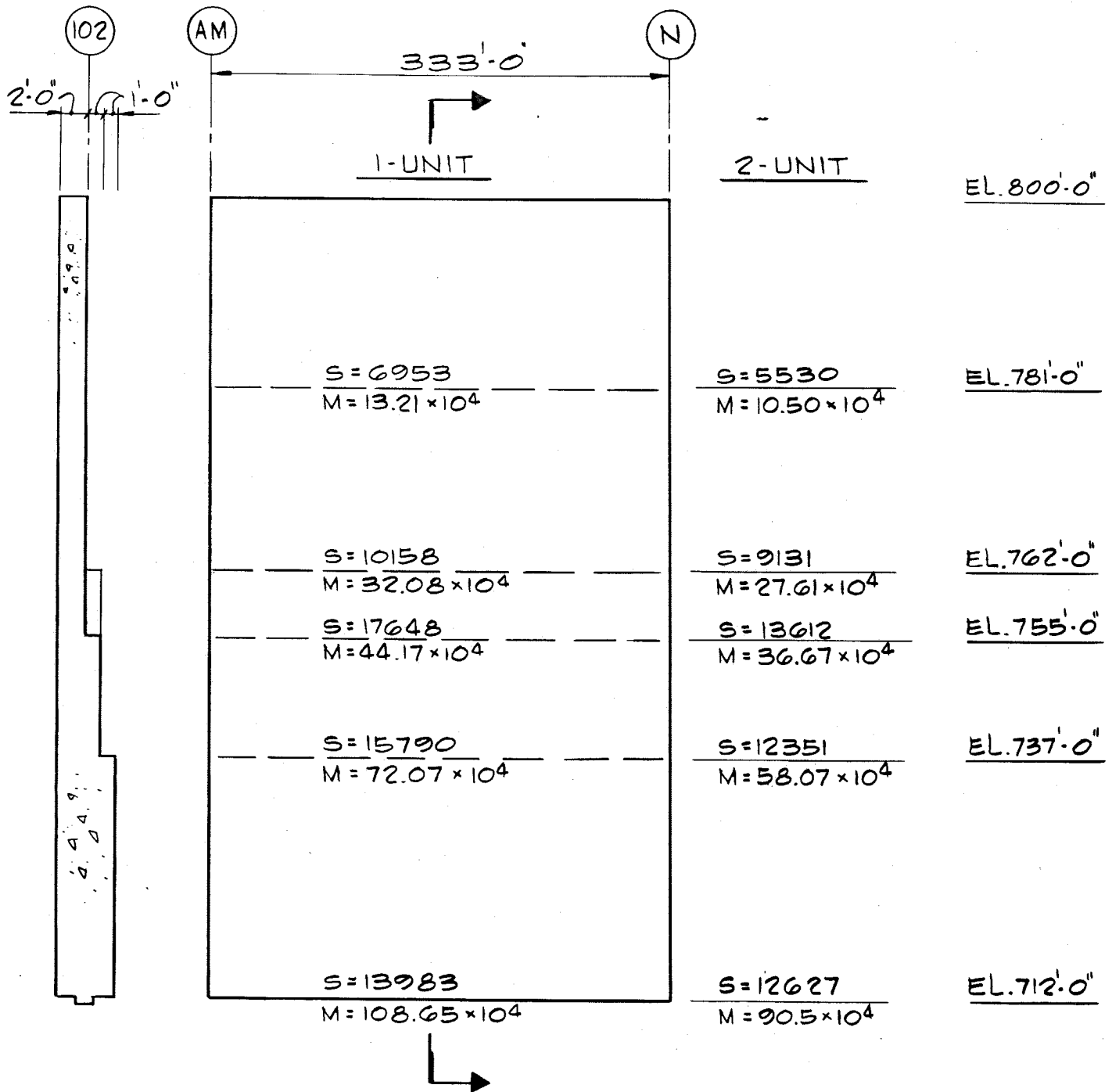
- NOTES:
1. "S" DENOTES SHEAR FORCE (KIPS)
 2. "M" DENOTES OVERTURNING MOMENTS (KIP-FT.)
 3. SHEAR FORCES AND MOMENTS SHOWN ARE FOR SSE LOADING.

NOTE: UNIT 2 HAS BEEN CANCELLED.

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FIGURE 3.7-35

SEISMIC RESPONSE LOAD FOR SSE
FOR SHEAR WALLS - COLUMN ROW "AM"



ELEVATION OF SHEAR WALL ALONG COLUMN ROW "102"

NOTES:

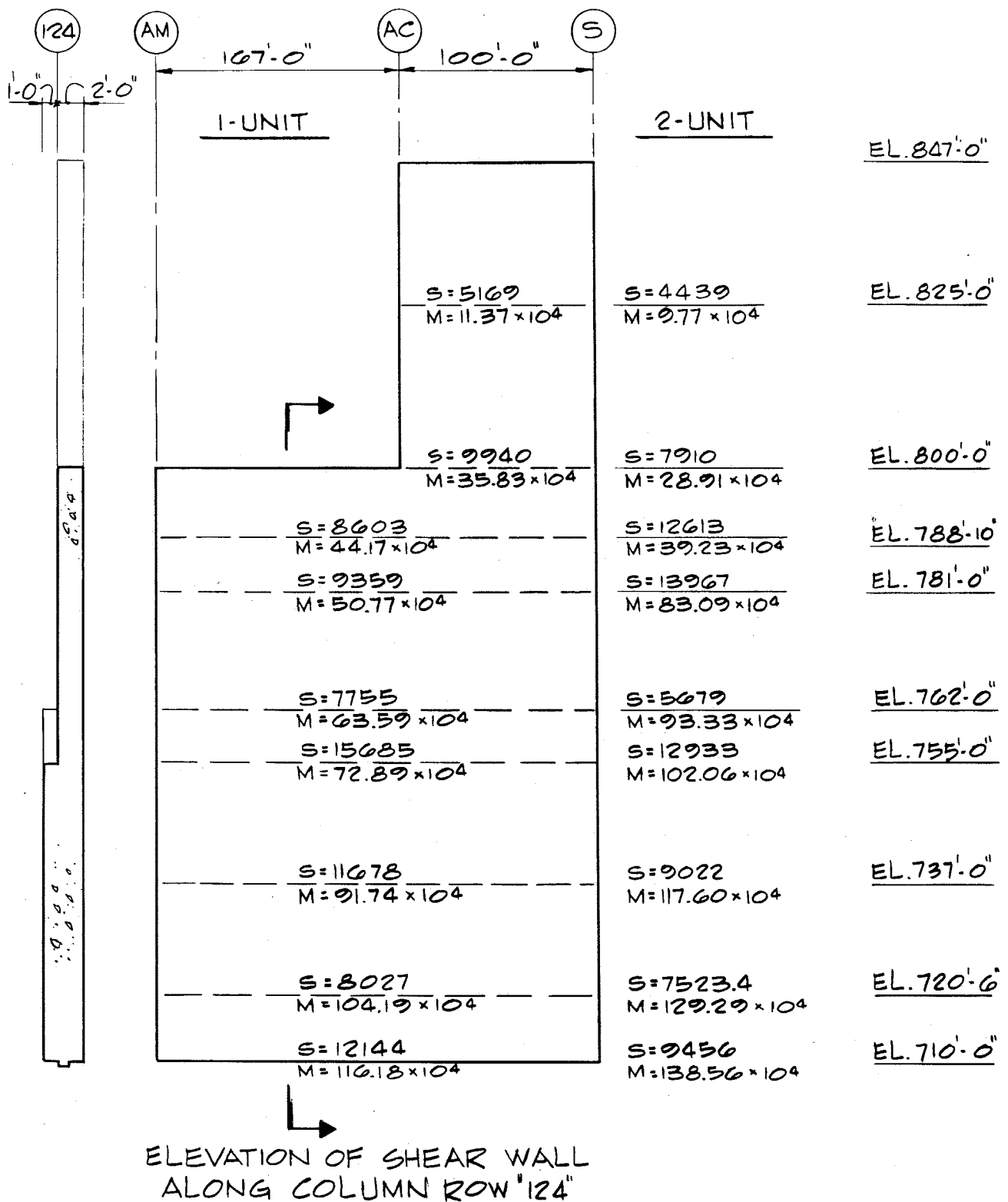
1. "S" DENOTES SHEAR FORCE (KIPS).
"M" DENOTES OVERTURNING MOMENTS (KIP-FT.).
2. SHEAR FORCES AND MOMENTS SHOWN ARE FOR SSE LOADING.

NOTE: UNIT 2 HAS BEEN CANCELLED.

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FIGURE 3.7-36

SEISMIC RESPONSE LOAD FOR SSE
FOR SHEAR WALLS - COLUMN ROW "102"



NOTES:

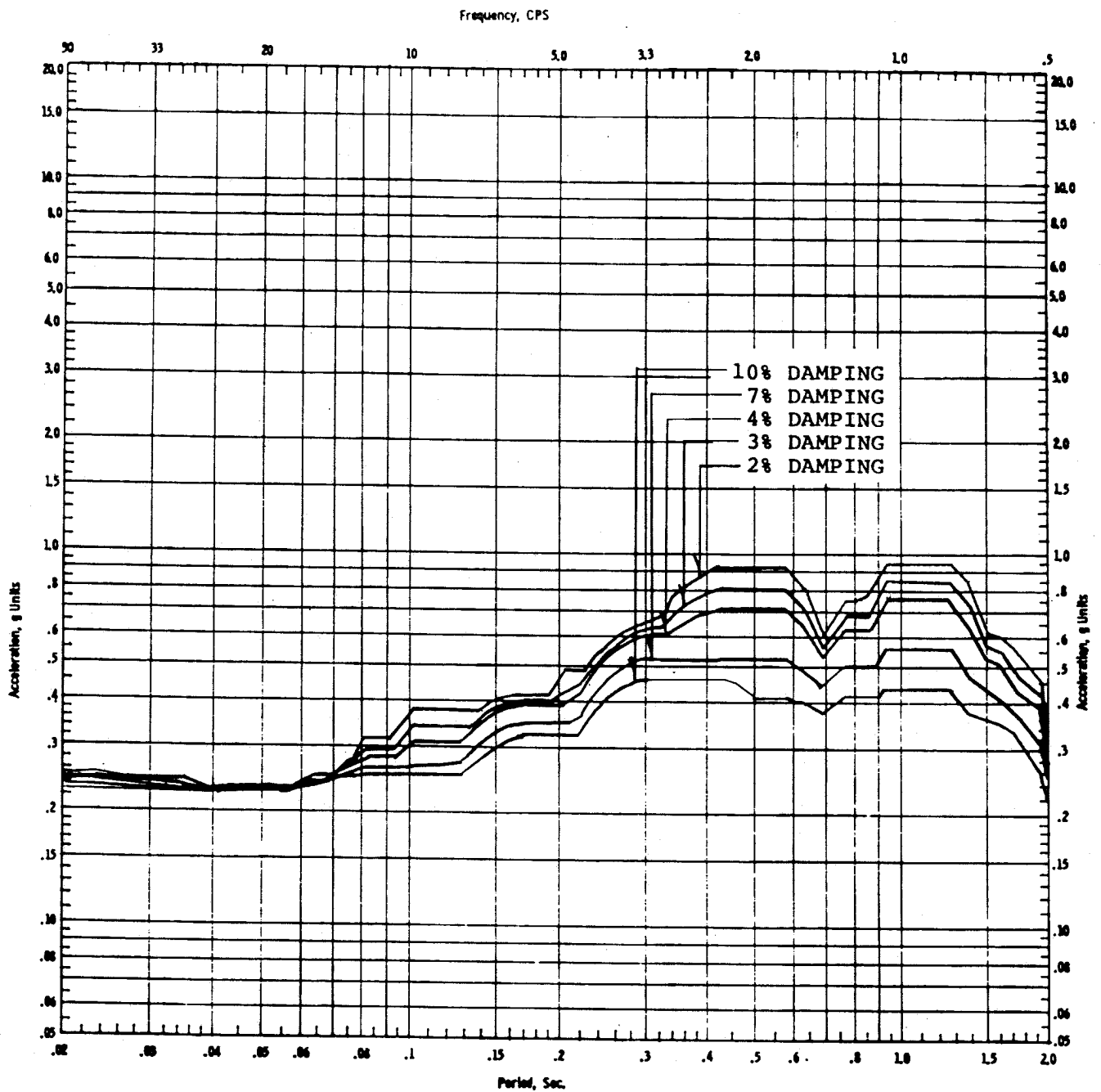
1. "S" DENOTES SHEAR FORCE (KIPS)
- "M" DENOTES OVERTURNING MOMENTS (KIP-FT.)
2. SHEAR FORCES AND MOMENTS SHOWN ARE FOR SSE LOADING.

NOTE: UNIT 2 HAS BEEN CANCELLED.

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FIGURE 3.7-37

SEISMIC RESPONSE LOAD FOR SSE
FOR SHEAR WALLS - COLUMN ROW "124"



SPECTRA NO. 100-SS-EW
200-SS-EW

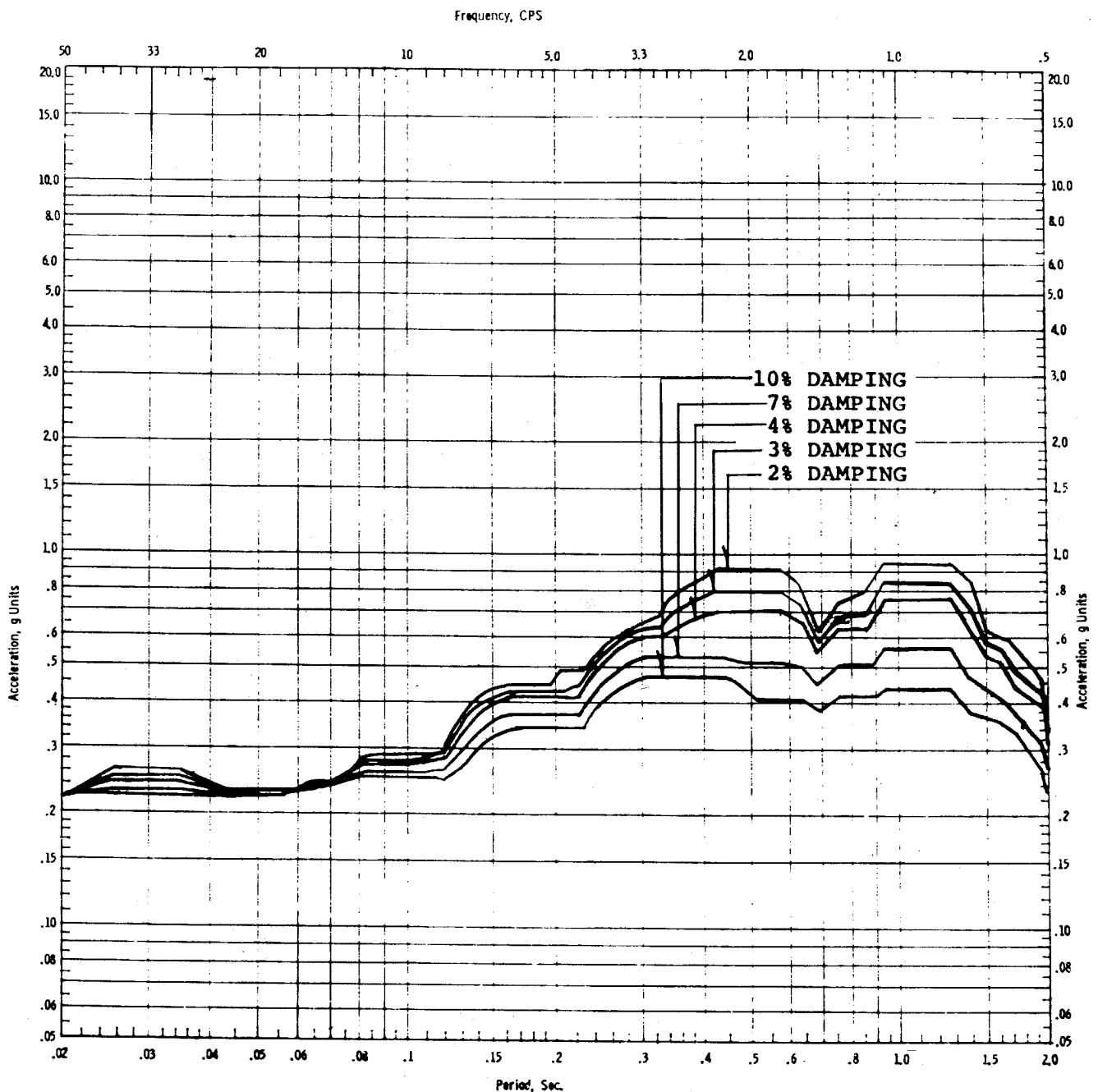
LOCATION: Aux., Fuel, Control, Diesel,
Radwaste & Turbine Bldgs.

ELEVATION: Basemat Floor

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FIGURE 3.7-38

HORIZONTAL SSE RESPONSE SPECTRA
AT BASE MAT FLOOR - X DIRECTION



SPECTRA NO. 100-SS-NS
200-SS-NS.

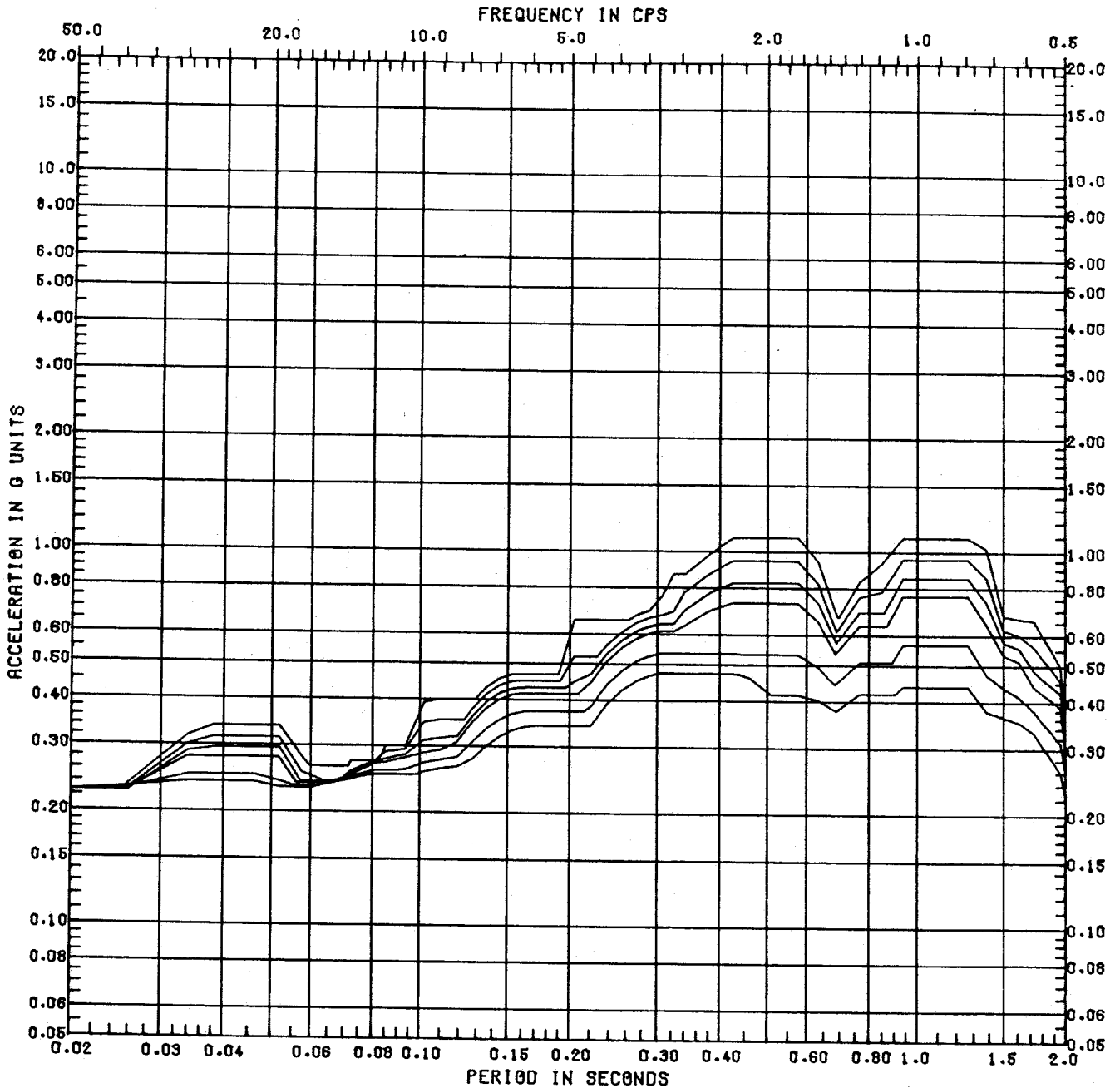
LOCATION: Aux., Fuel, Control,
Diesel, Radwaste & Turbine
Bldgs.
ELEVATION:

Basemat Floor

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FIGURE 3.7-39

HORIZONTAL SSE RESPONSE SPECTRA
AT BASE MAT FLOOR - Y DIRECTION



HORIZ. RESPONSE SPECTRA
 ELEVATION 742'-8"
 LOCATION Sacrificial Shield,
 Pedestal (RPV)

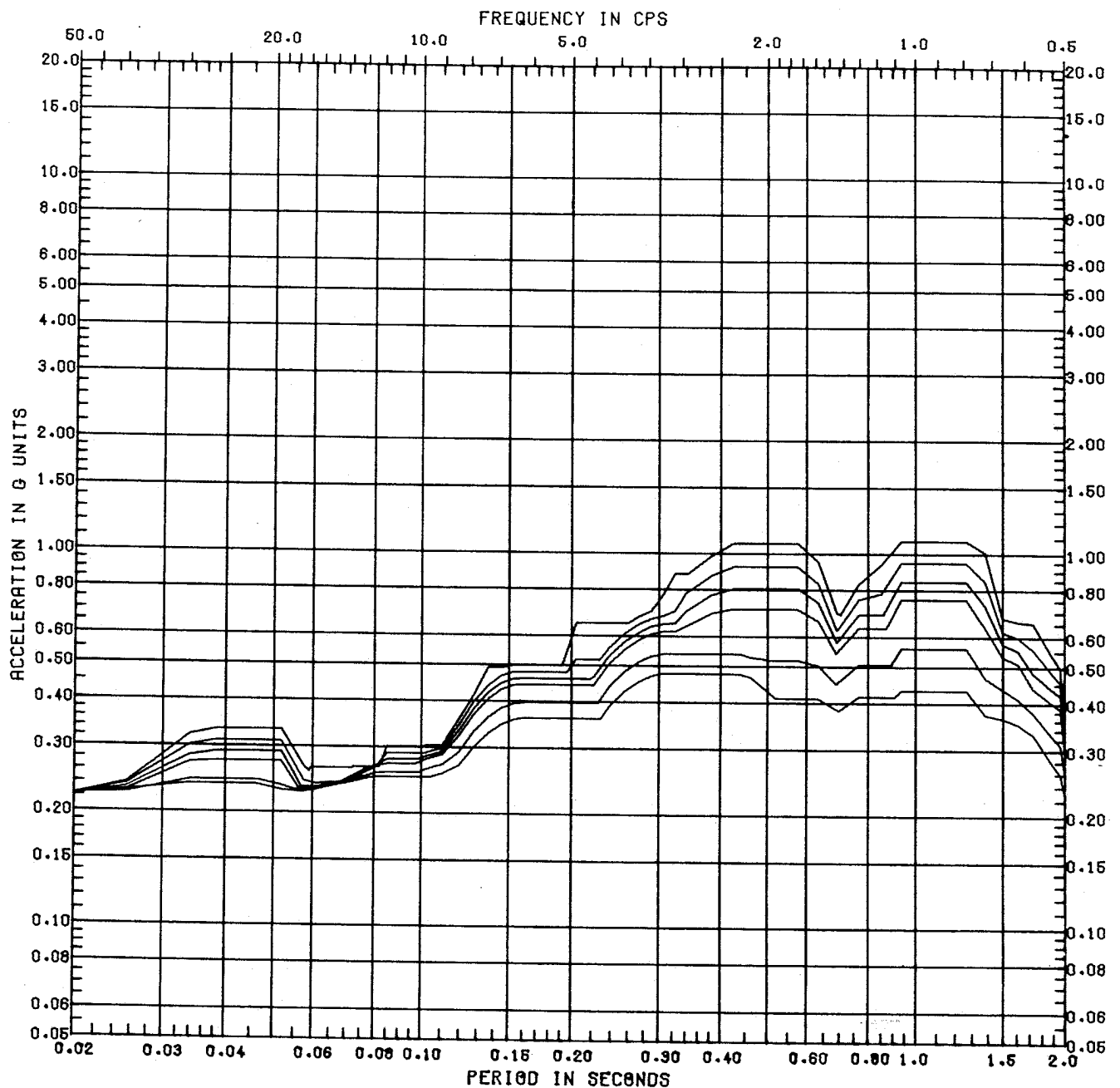
SPECTRA NO. 317-SS-EW
 322-SS-EW

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FIGURE 3.7-40

HORIZONTAL SSE RESPONSE SPECTRA
 AT 742'-8," SACRIFICIAL
 SHIELD PEDESTAL - X DIRECTION



HORIZ RESPONSE SPECTRA
 ELEVATION 742'-8"
 LOCATION Sacrificial Shield,
 Pedestal (RPV)

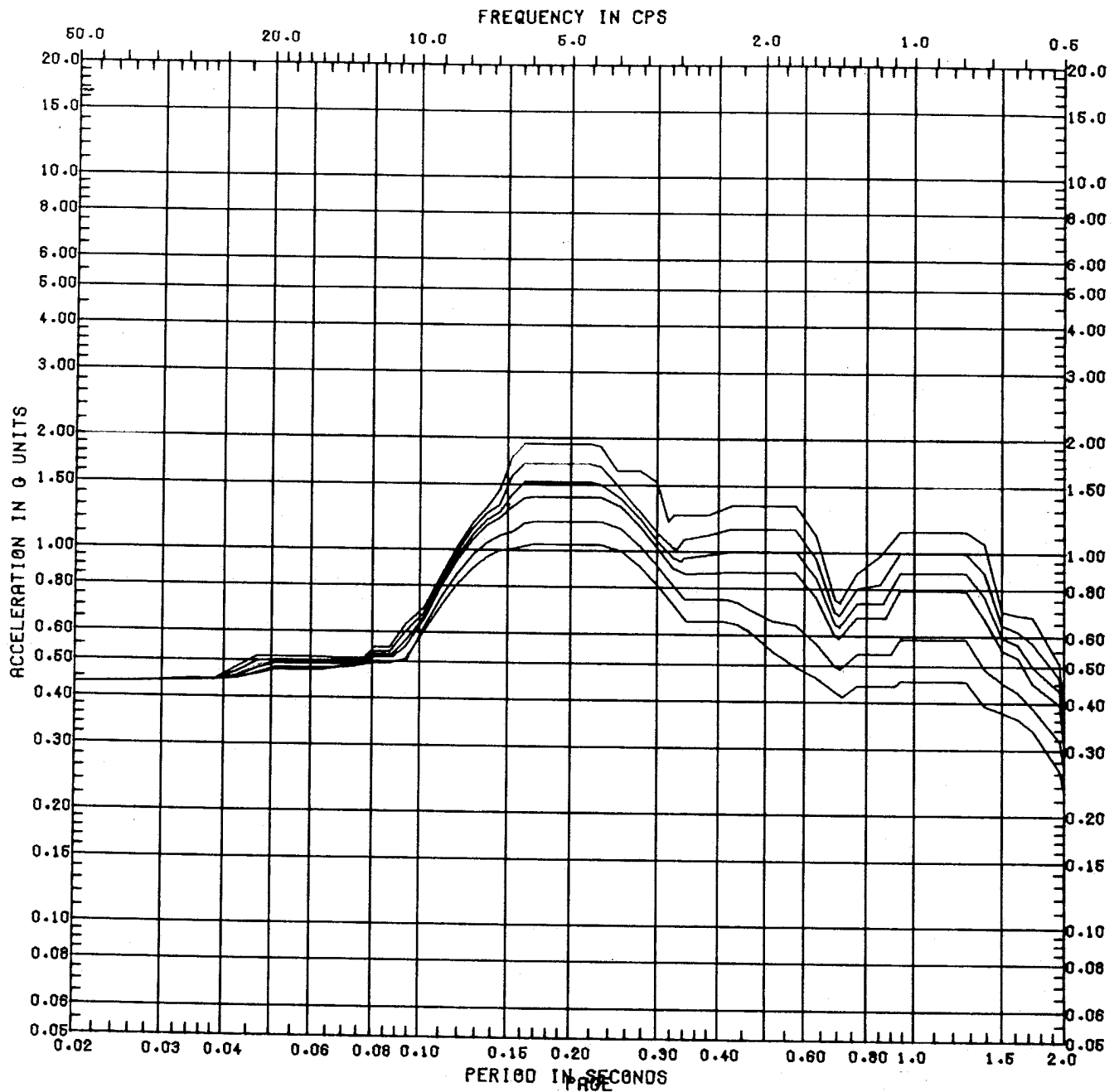
SPECTRA NO. 317-SS-NS
 322-SS-NS

REVISION NO. 02

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FIGURE 3.7-41

HORIZONTAL SSE RESPONSE SPECTRA
 AT 742'-8", SACRIFICIAL
 SHIELD PEDESTAL - Y DIRECTION



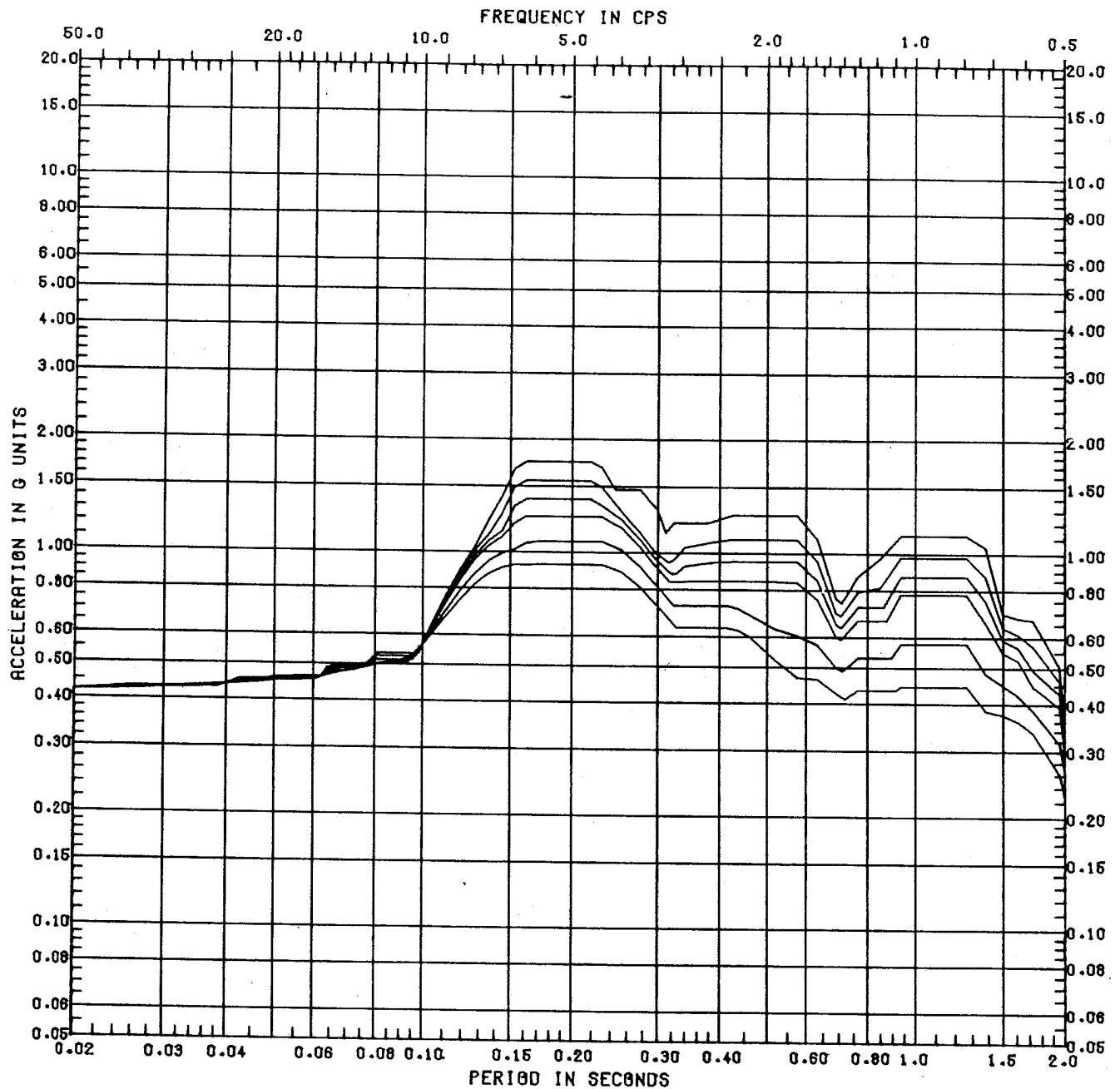
HORIZ. RESPONSE SPECTRA
 ELEVATION 803'-3", 828'-3"
 LOCATION Drywell

SPECTRA NO. 315-SS-EW
 316-SS-EW
 REVISION NO. 02

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FIGURE 3.7-42

HORIZONTAL SSE RESPONSE SPECTRA
 AT 803'-3" AND 828'-3",
 DRYWELL - X DIRECTION



HORIZ. RESPONSE SPECTRA
 ELEVATION 803'-3", 828'-3"
 LOCATION Drywell

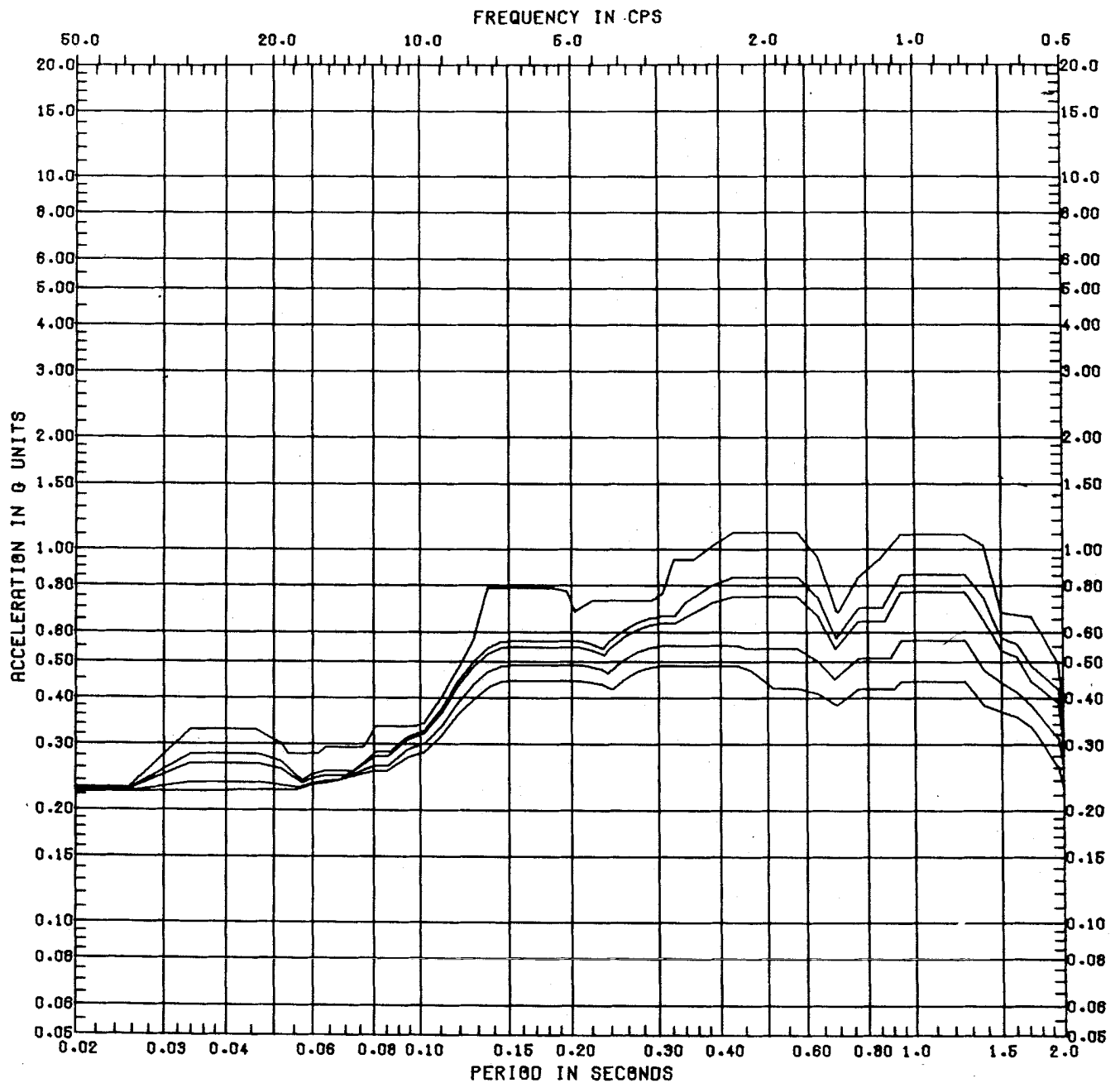
SPECTRA NO. 315-SS-NS
 316-SS-NS

REVISION NO. 02

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FIGURE 3.7-43

HORIZONTAL SSE RESPONSE SPECTRA
 AT 803'-3" AND 828'-3",
 DRYWELL - Y DIRECTION



HORIZ RESPONSE SPECTRA

SPECTRA NO 102 to 102e-SS-EW
202-SS-EW

ELEVATION 737'-0"

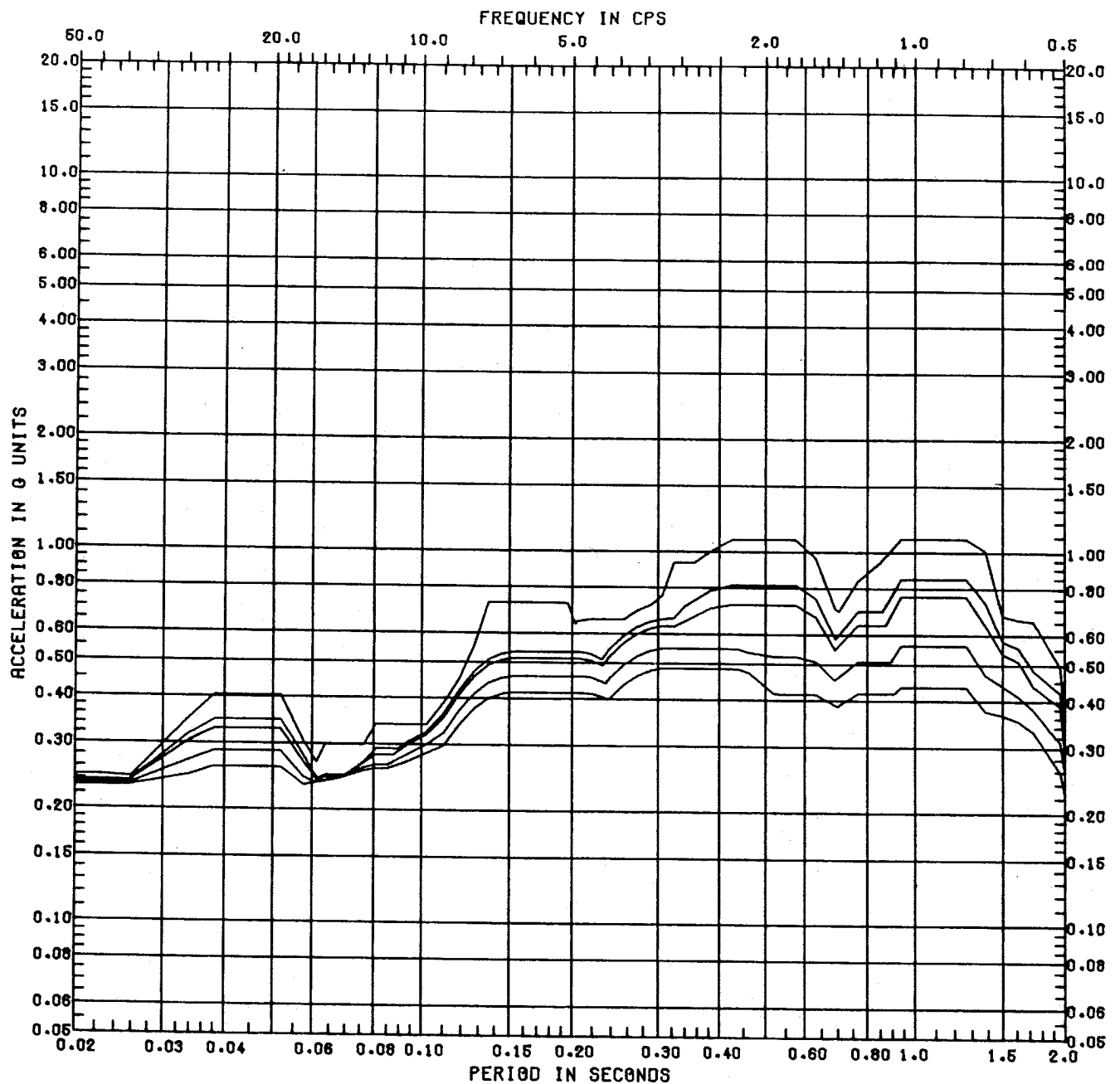
LOCATION Aux., Fuel, Control, Diesel,
Radwaste, & Turbine Bldgs.

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FIGURE 3.7-44

HORIZONTAL SSE RESPONSE SPECTRA
AT 737'-0" MAIN
BUILDING - X DIRECTION



HORIZ. RESPONSE SPECTRA

ELEVATION 737'-0"

LOCATION Aux., Fuel, Control,
Diesel, Radwaste, & Turbine
Bldgs.

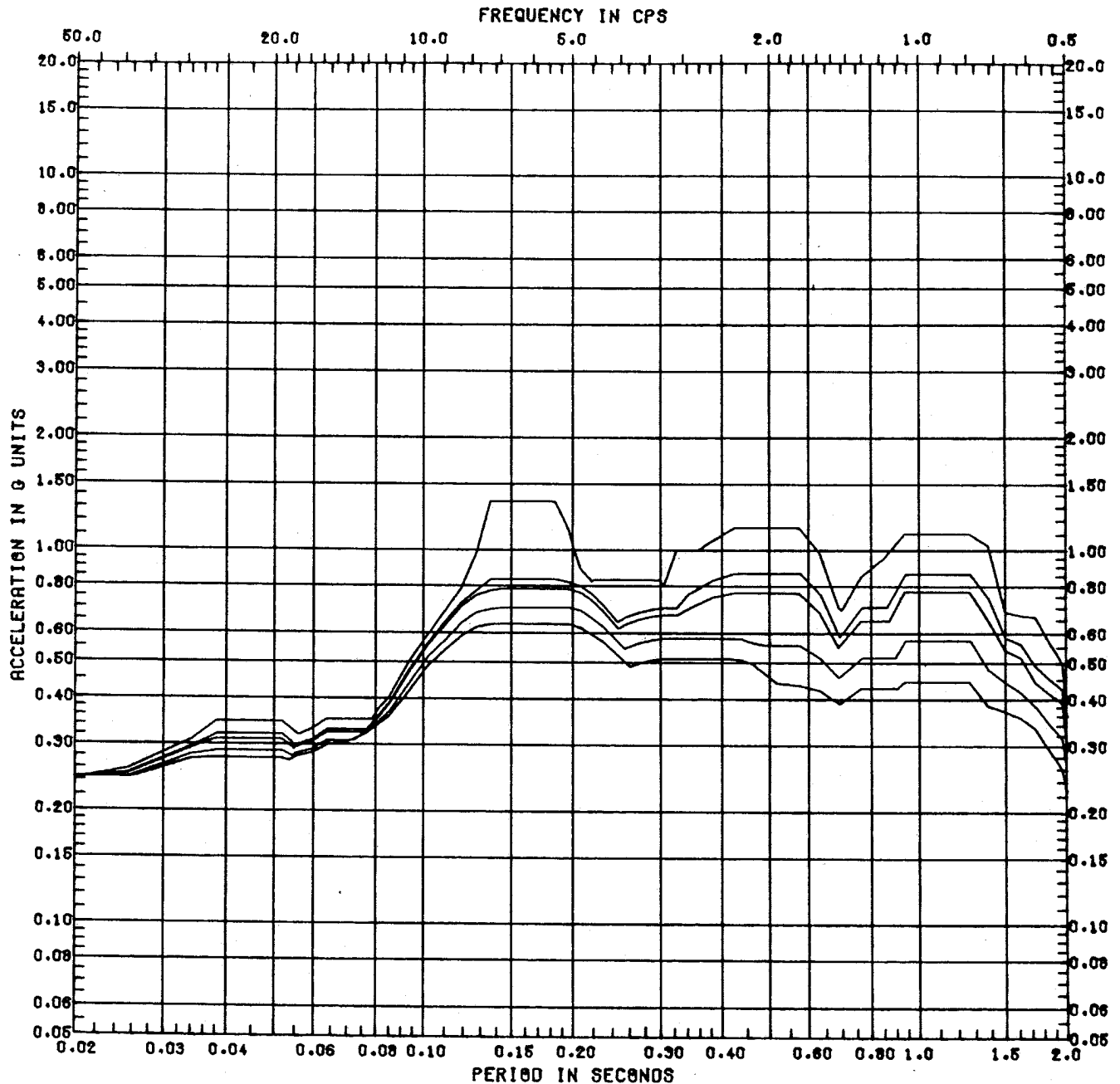
SPECTRA NO 102 to 102e-SS-NS
202-SS-NS

REVISION NO. 02

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FIGURE 3.7-45

HORIZONTAL SSE RESPONSE SPECTRA
AT 737'-0" MAIN
BUILDING - Y DIRECTION



HORIZ. RESPONSE SPECTRA

ELEVATION 762'-0"

LOCATION Aux., Control, Diesel,
Radwaste & Turbine Bldgs.

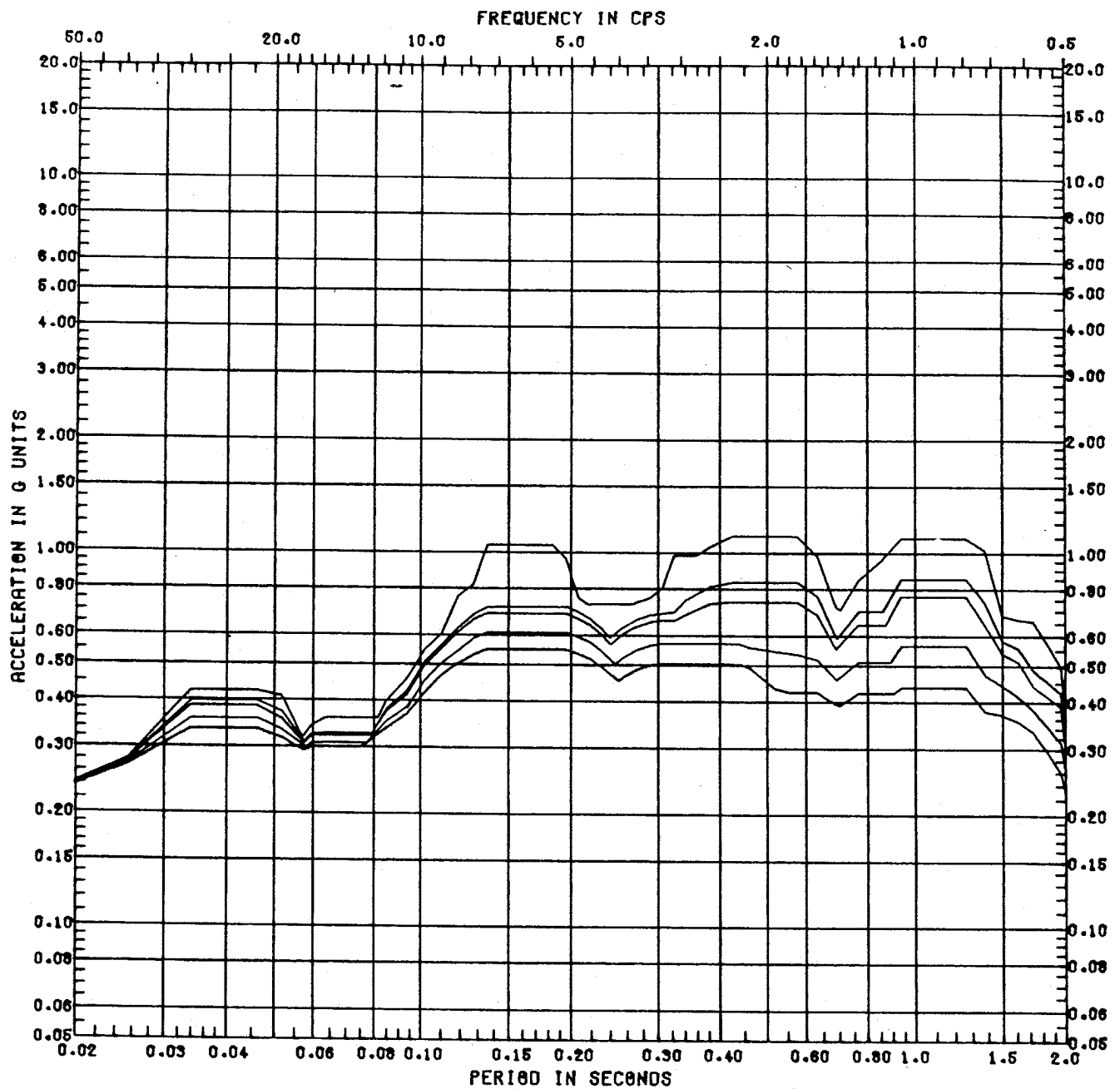
SPECTRA NO. 105 to 105d-SS-EW
205-SS-EW

REVISION NO. 02

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FIGURE 3.7-46

HORIZONTAL SSE RESPONSE SPECTRA
AT 762'-0" MAIN
BUILDING - X DIRECTION



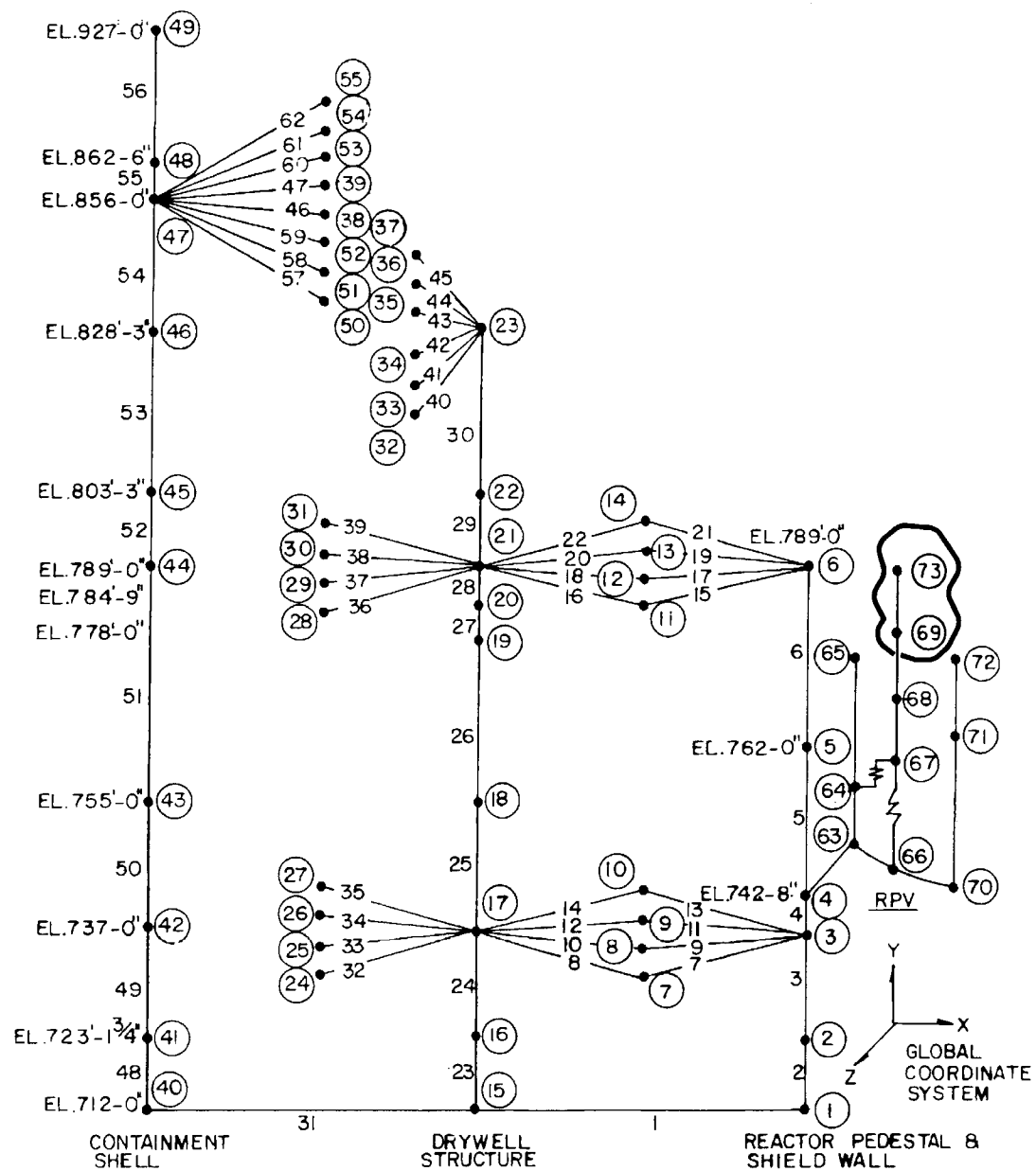
HORIZ. RESPONSE SPECTRA
 ELEVATION 762'-0"
 LOCATION Aux., Control, Diesel,
 Radwaste & Turbine Bldgs

SPECTRA NO. 105 to 105d-SS-NS
 205-SS-NS
 REVISION NO. 02

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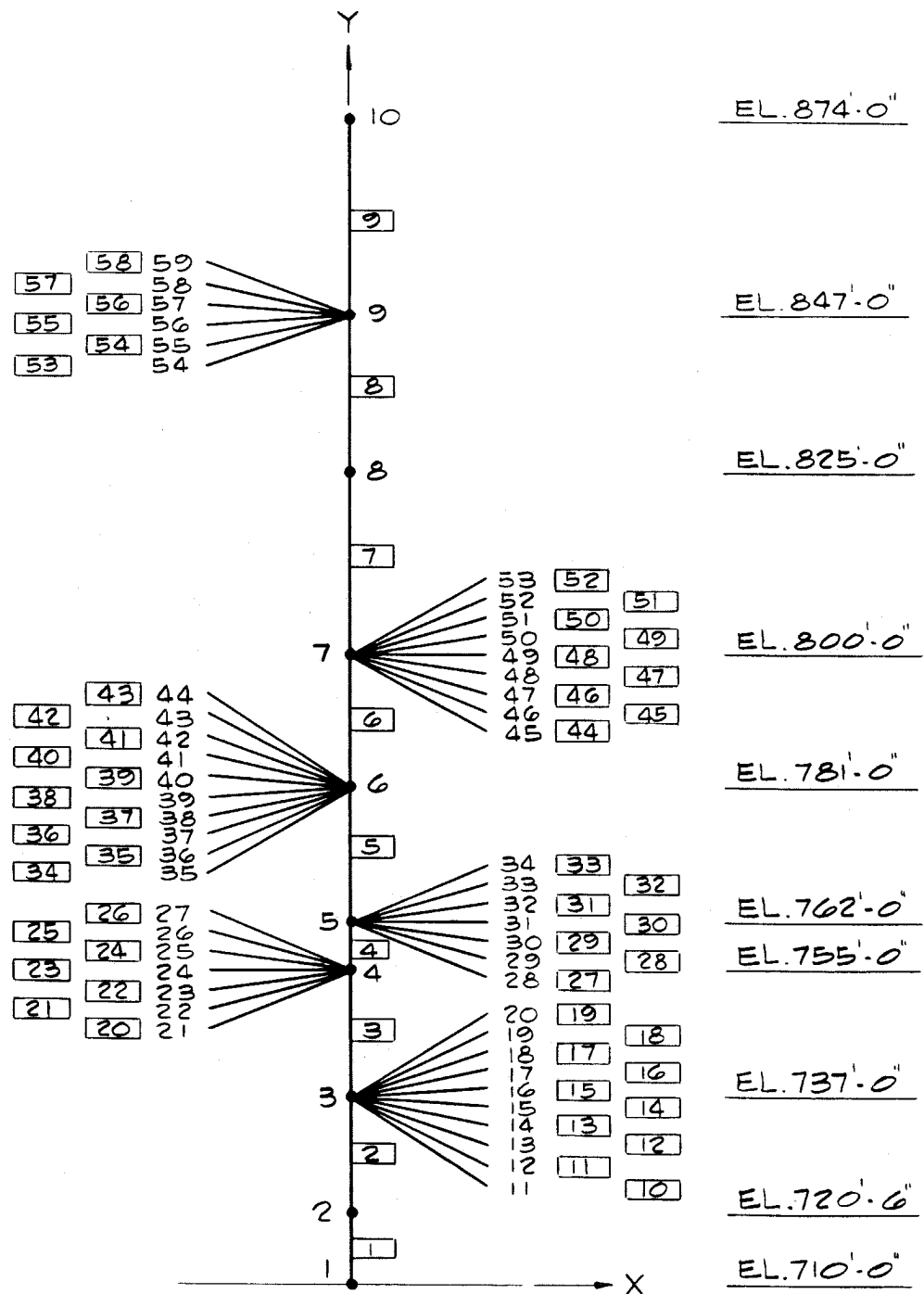
FIGURE 3.7-47

HORIZONTAL SSE RESPONSE SPECTRA
 AT 762'-0" MAIN
 BUILDING - Y DIRECTION



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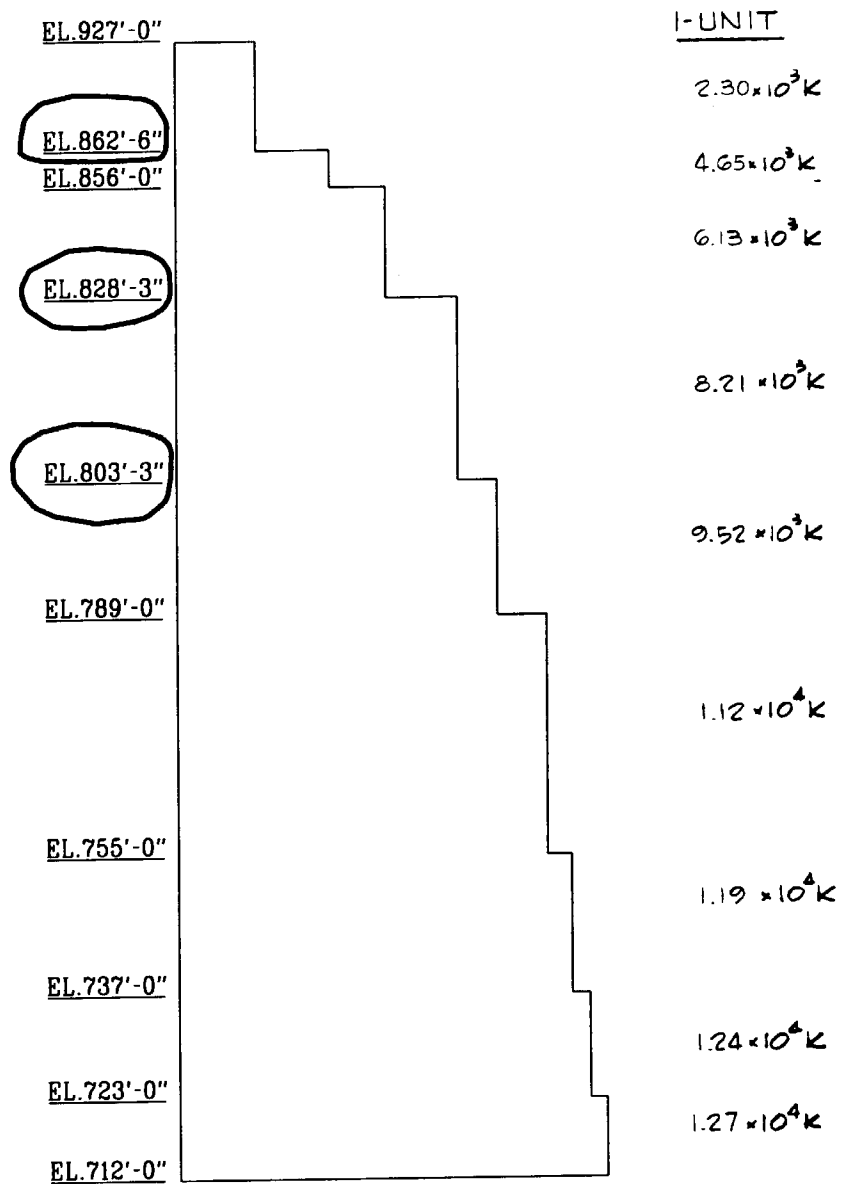
FIGURE 3.7-48
CONTAINMENT BUILDING
MODEL FOR VERTICAL EXCITATION



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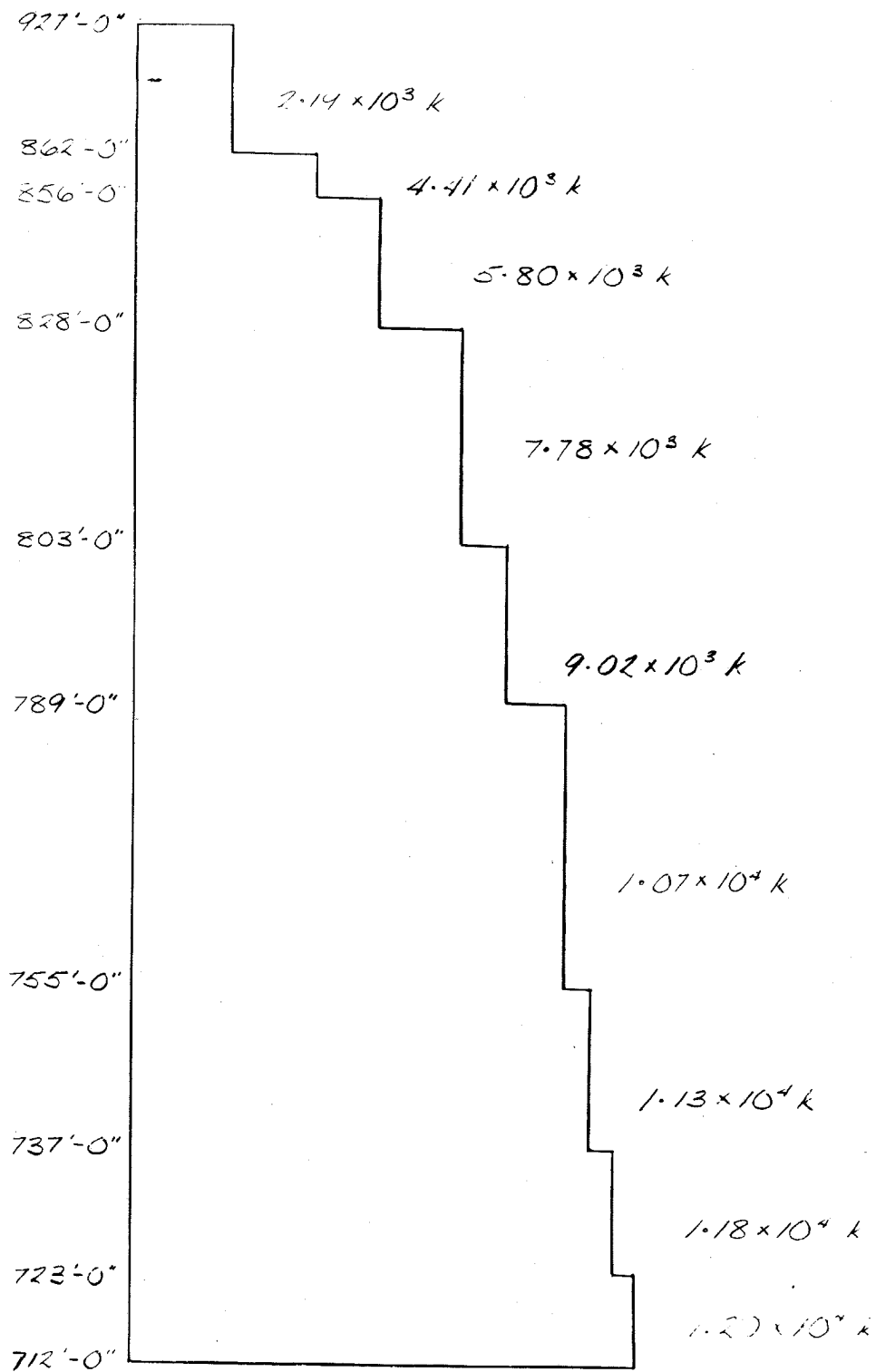
FIGURE 3.7-49

MAIN BUILDING MODEL
FOR VERTICAL EXCITATION



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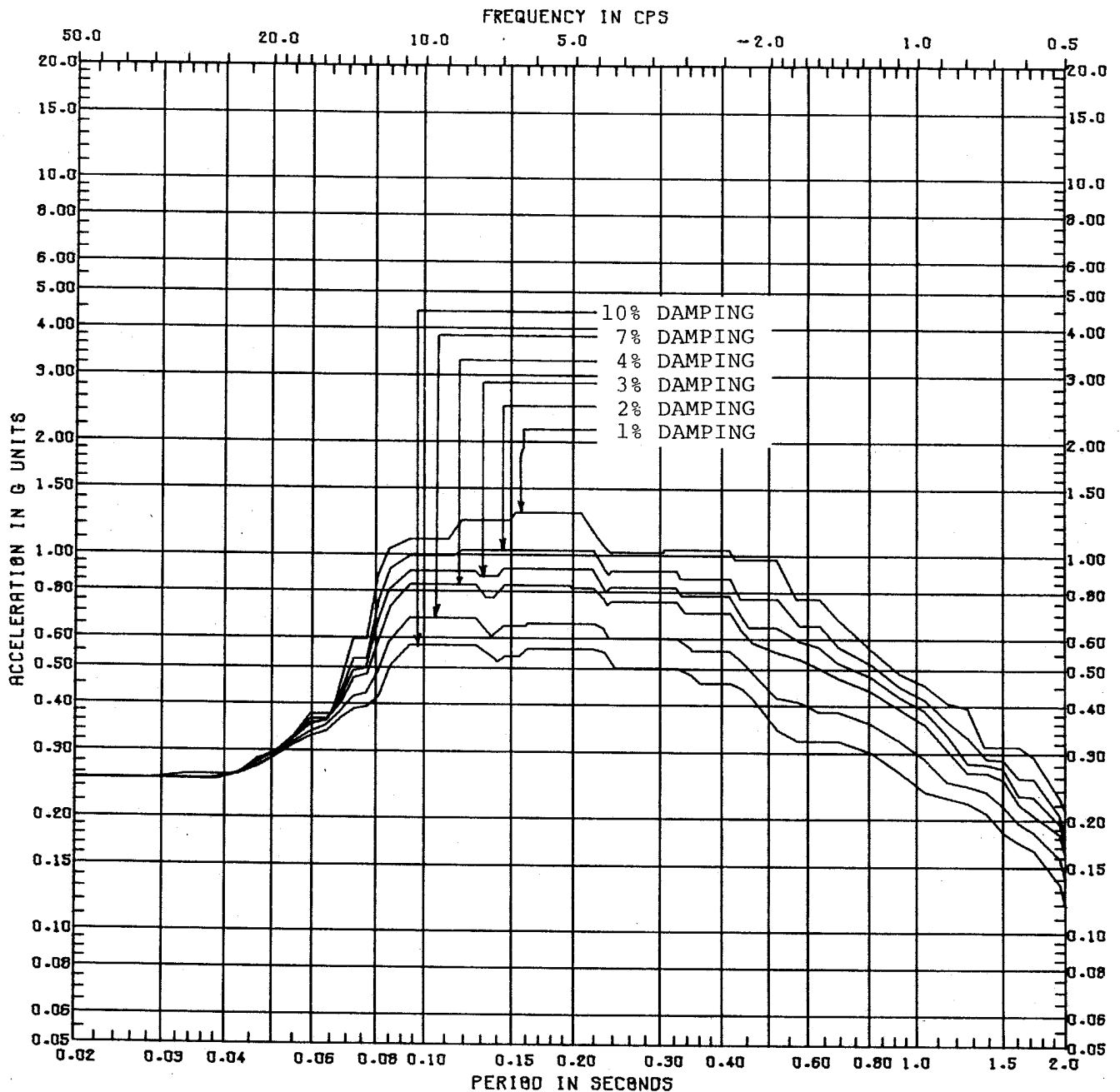
FIGURE 3.7-50
SEISMIC SSE LOAD FOR AXIAL
FORCES FOR CONTAINMENT-1-UNIT



NOTE: UNIT 2 HAS BEEN CANCELLED.

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FIGURE 3.7-51
TOTAL AXIAL FORCE - CONTAINMENT 2-UNIT
VERTICAL SSE



VERT RESPONSE SPECTRA

SPECTRA NO. 100-SS-VS & VI

ELEVATION Basemat Floor

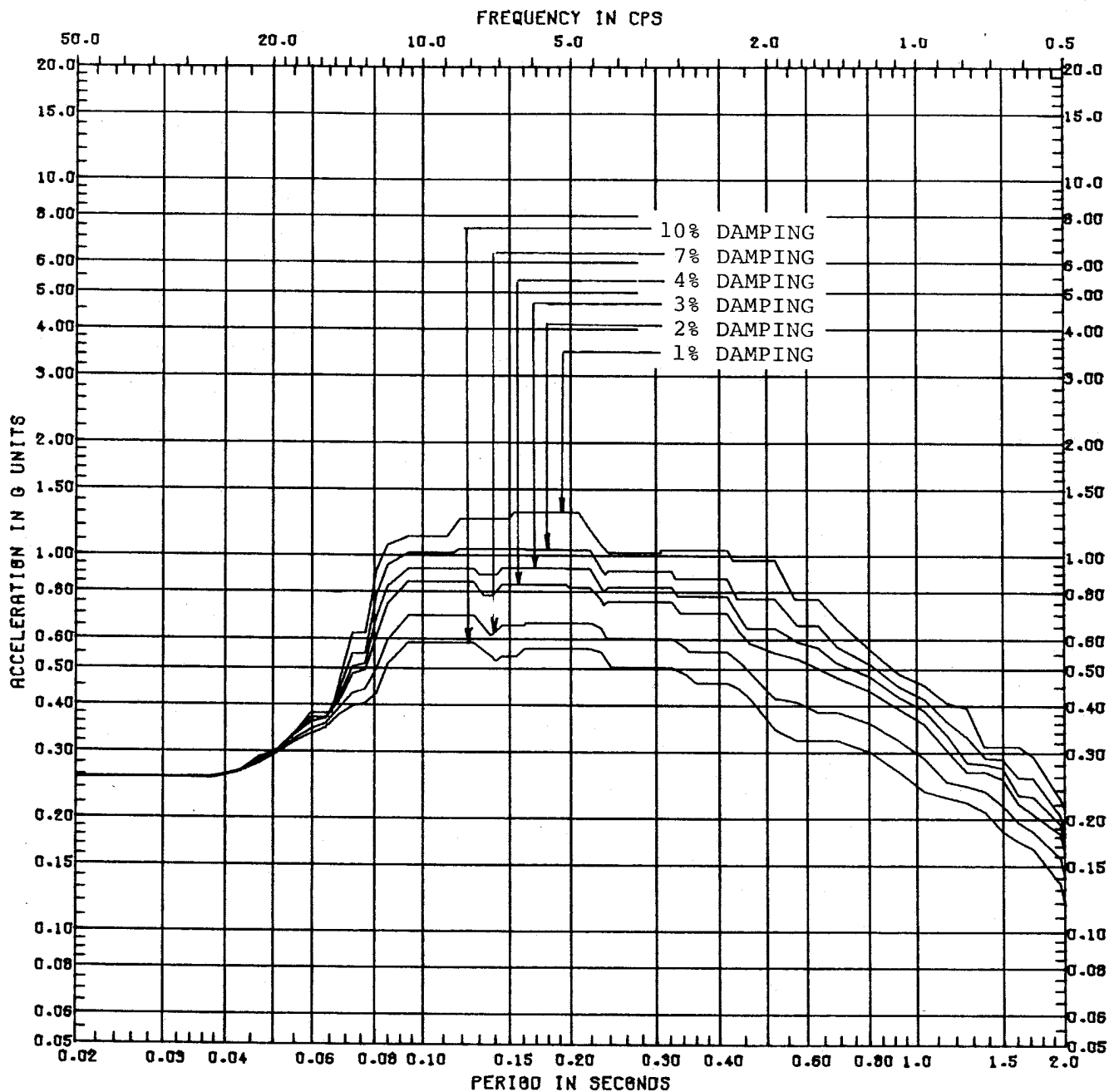
LOCATION Aux., Fuel, Control, Diesel,
Radwaste & Turbine Bldgs.

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FIGURE 3.7-52

VERTICAL SSE RESPONSE SPECTRA
AT BASE MAT FLOOR



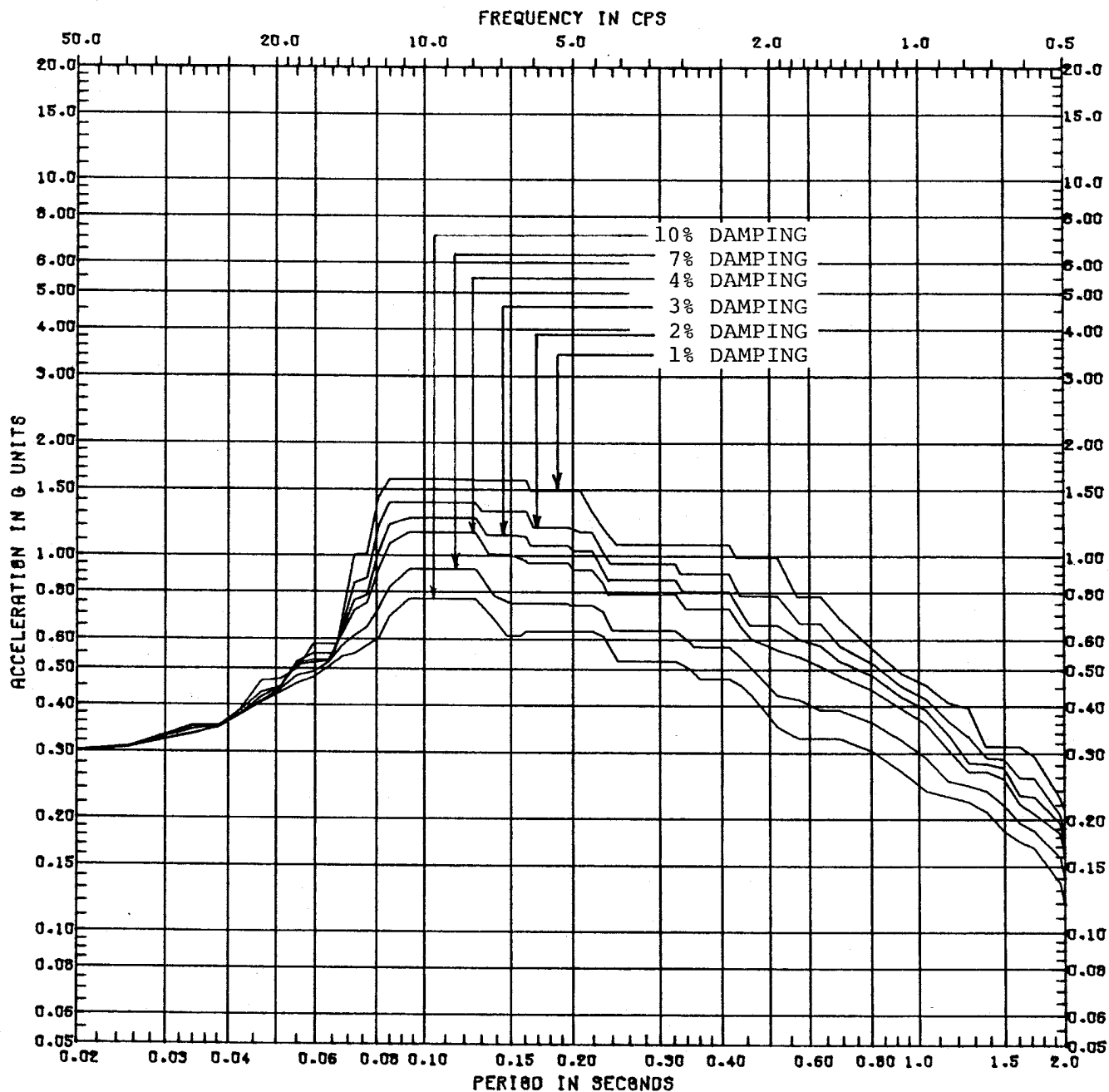
VERT RESPONSE SPECTRA
 ELEVATION 742'-8"
 LOCATION Sacrificial Shield,
 Pedestal, RPV Base

SPECTRA NO. 317-SS-VW
 322-SS-VW
 400-SS-VW
 REVISION NO. 05

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FIGURE 3.7-53

VERTICAL SSE RESPONSE SPECTRA
 AT 742'-8", SACRIFICIAL SHIELD
 PEDESTAL RPV BASE



VERT RESPONSE SPECTRA
ELEVATION 803'-3"
LOCATION Drywell

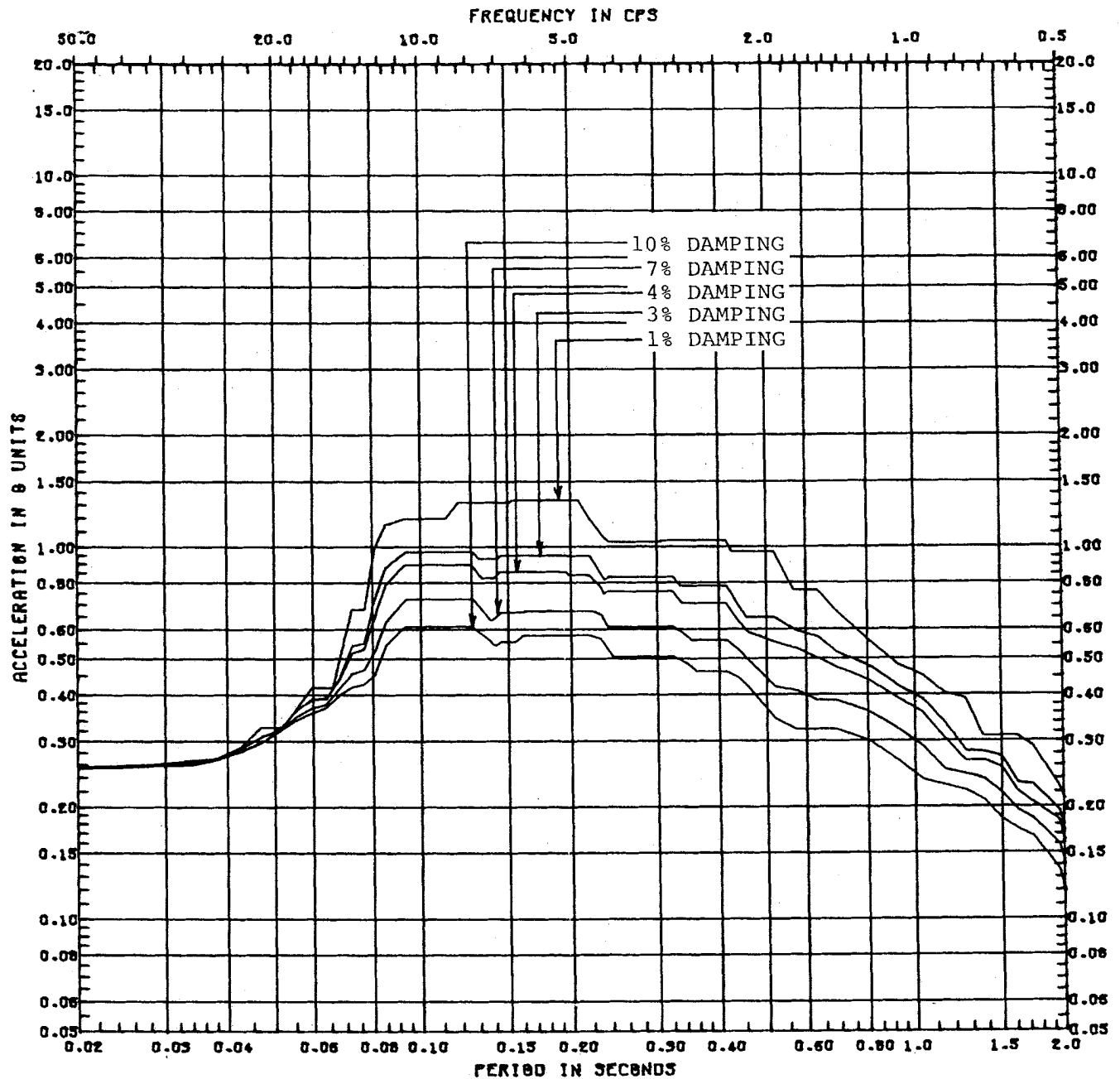
SPECTRA NO. 315-SS-VW

REVISION NO. 05

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FIGURE 3.7-54

VERTICAL SSE RESPONSE SPECTRA
AT 803'-3" DRYWELL



VERT RESPONSE SPECTRA

SPECTRA NO. 102 to 102e-SS-VW

ELEVATION 737'-0"

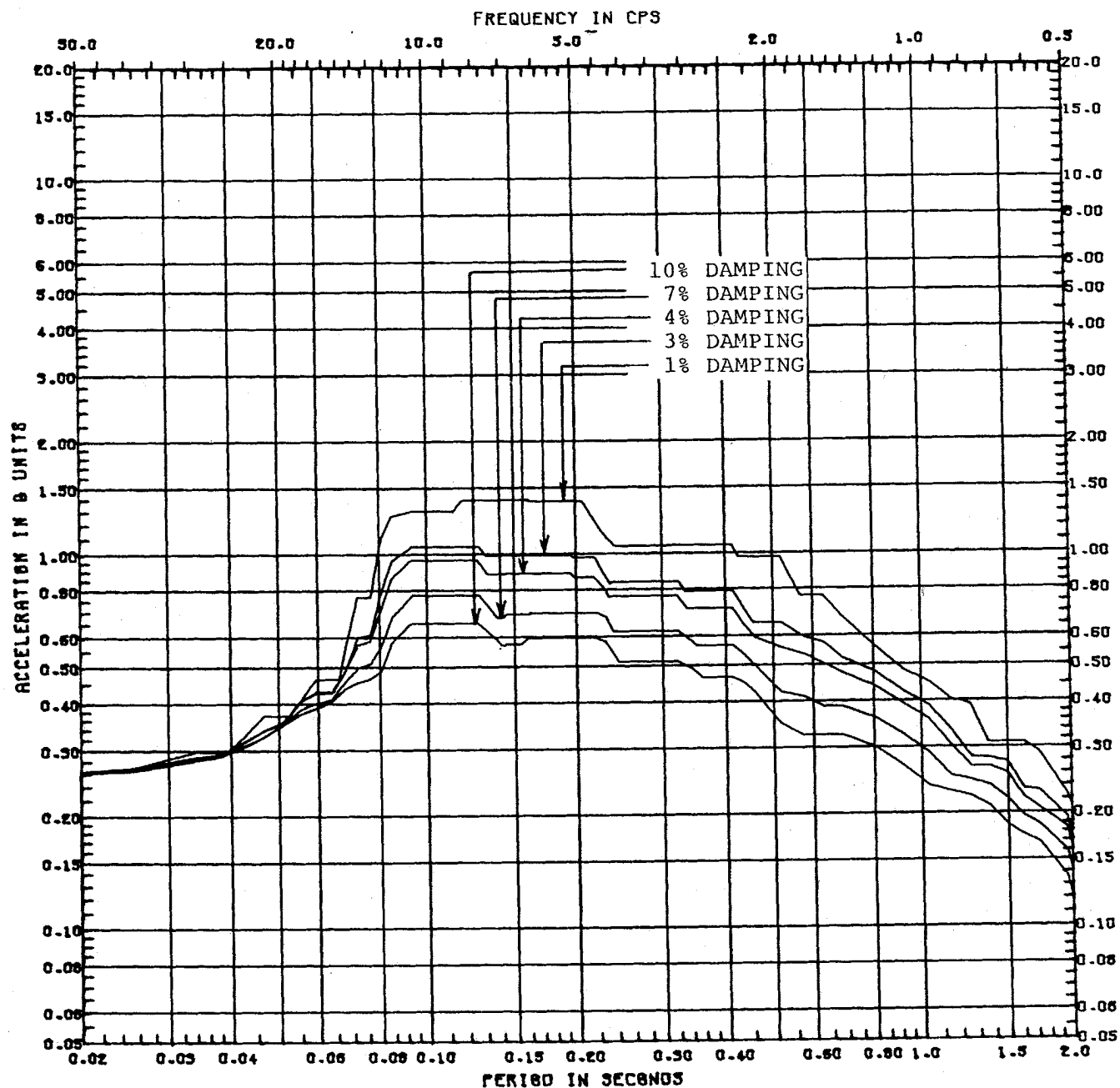
LOCATION Aux, Fuel, Control, Radwaste, Diesel Bldgs.

REVISION NO. 05

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FIGURE 3.7-55

VERTICAL SSE RESPONSE SPECTRA
AT 737'-0" MAIN BUILDING



ELEVATION 762'-0"

LOCATION Aux., Control, Radwaste,
Diesel Bldgs.

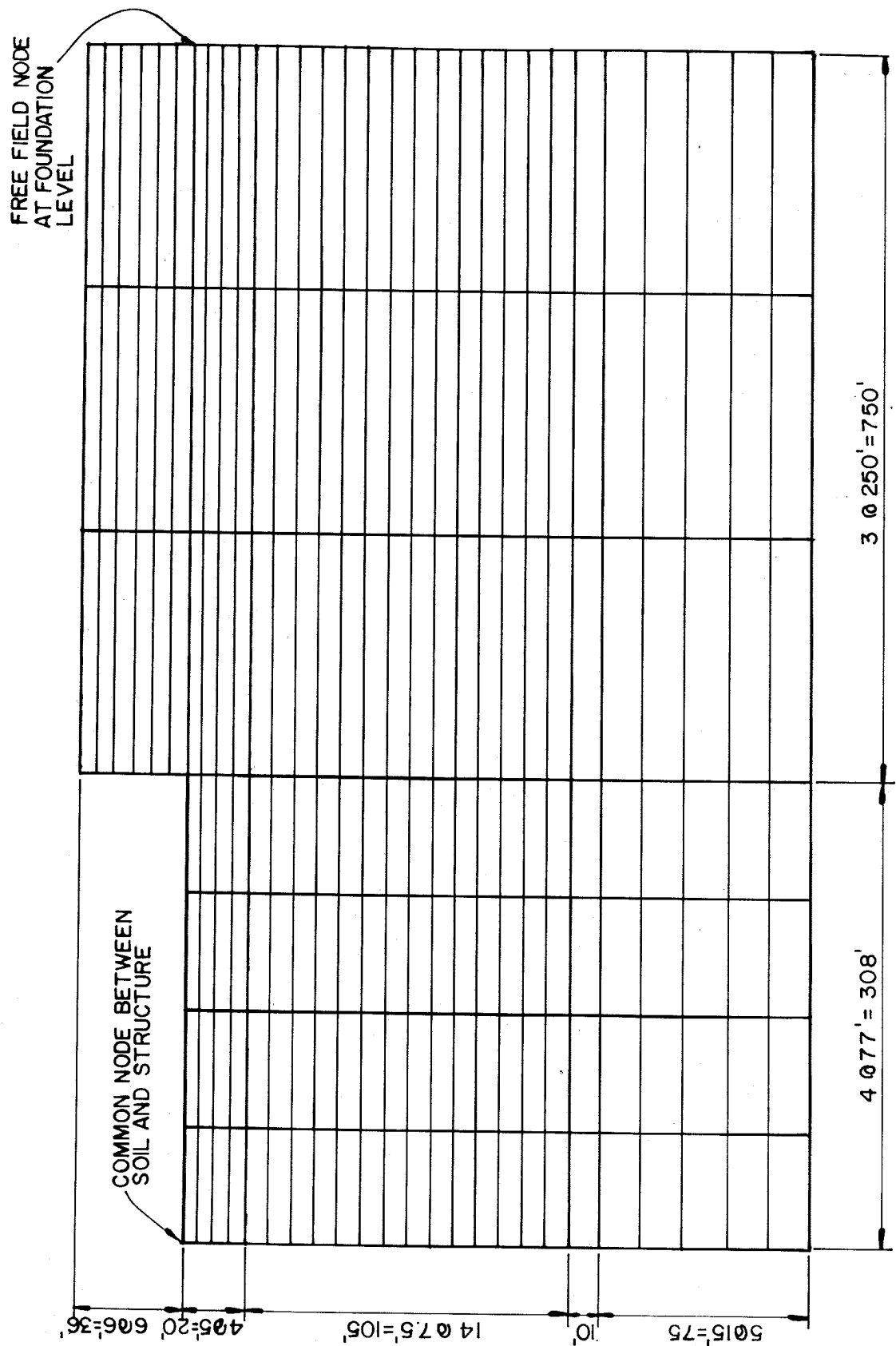
SPECTRA NO. 105 to 105d-SS-VW

REVISION NO. 05

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FIGURE 3.7-56

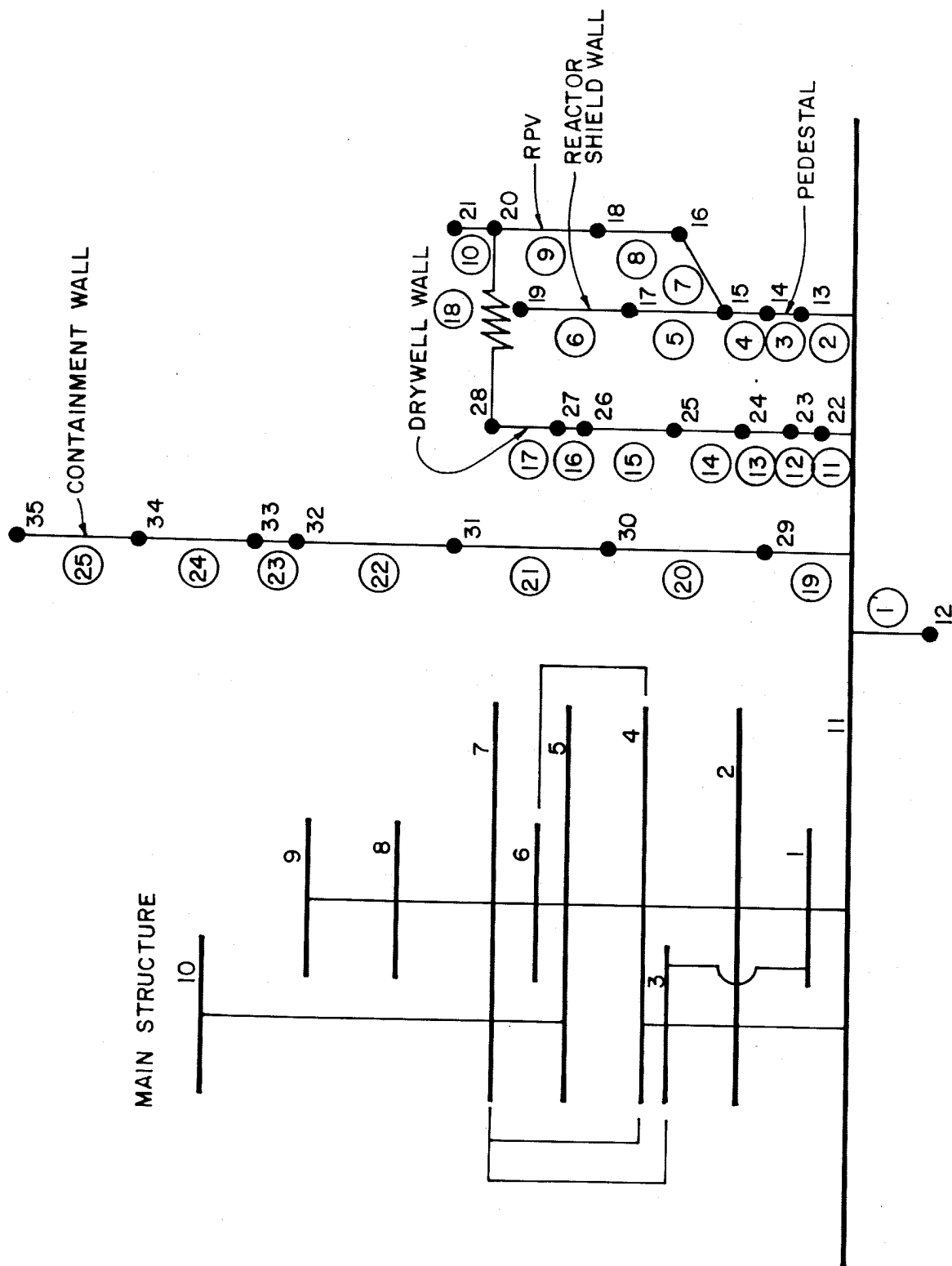
VERTICAL SSE RESPONSE SPECTRA
AT 762'-0" MAIN BUILDING



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FIGURE 3.7-57

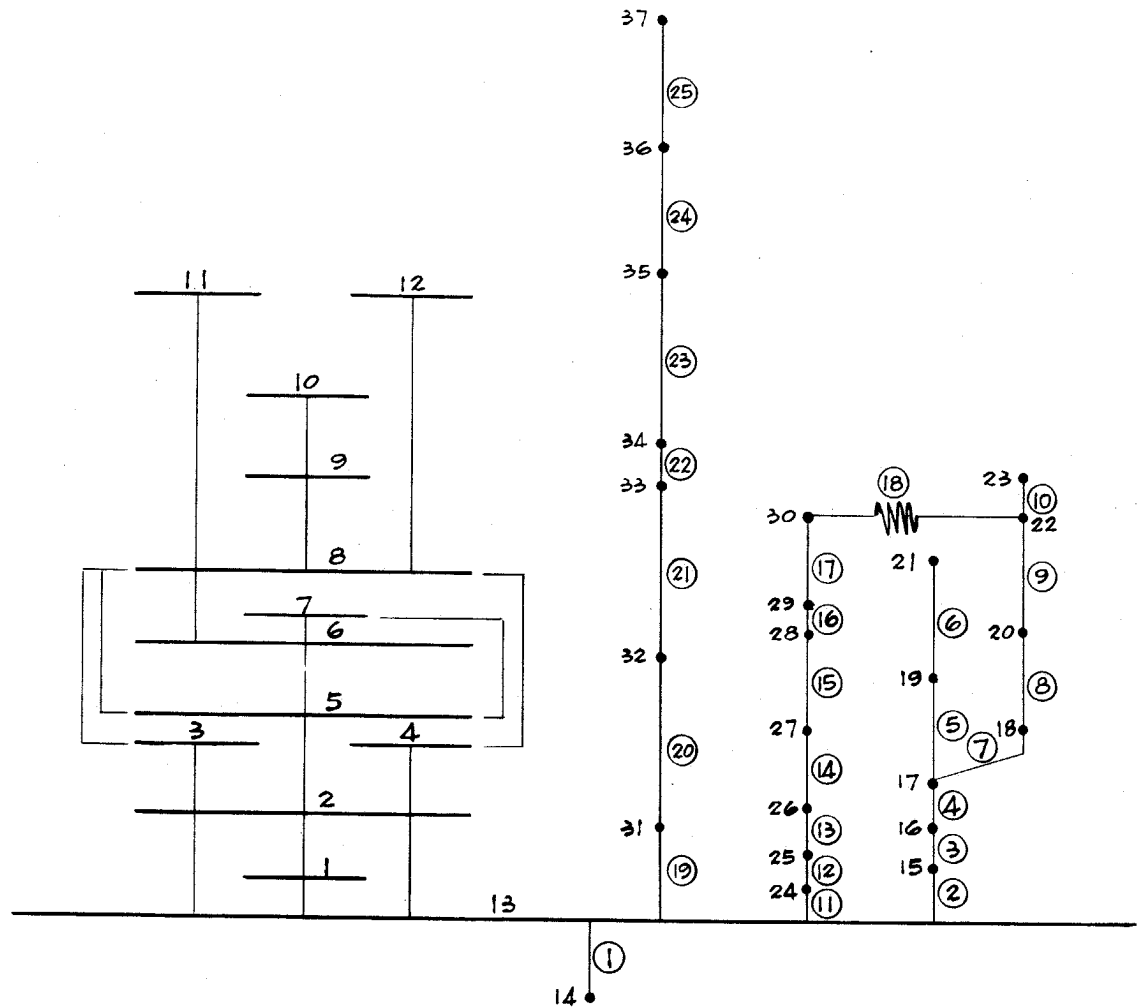
3-D AXISYMMETRIC FINITE
ELEMENT DYNAX SOIL MODEL



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FIGURE 3.7-58

HORIZONTAL 1-UNIT
BUILDING MODEL FOR
SOIL STRUCTURE INTERACTION



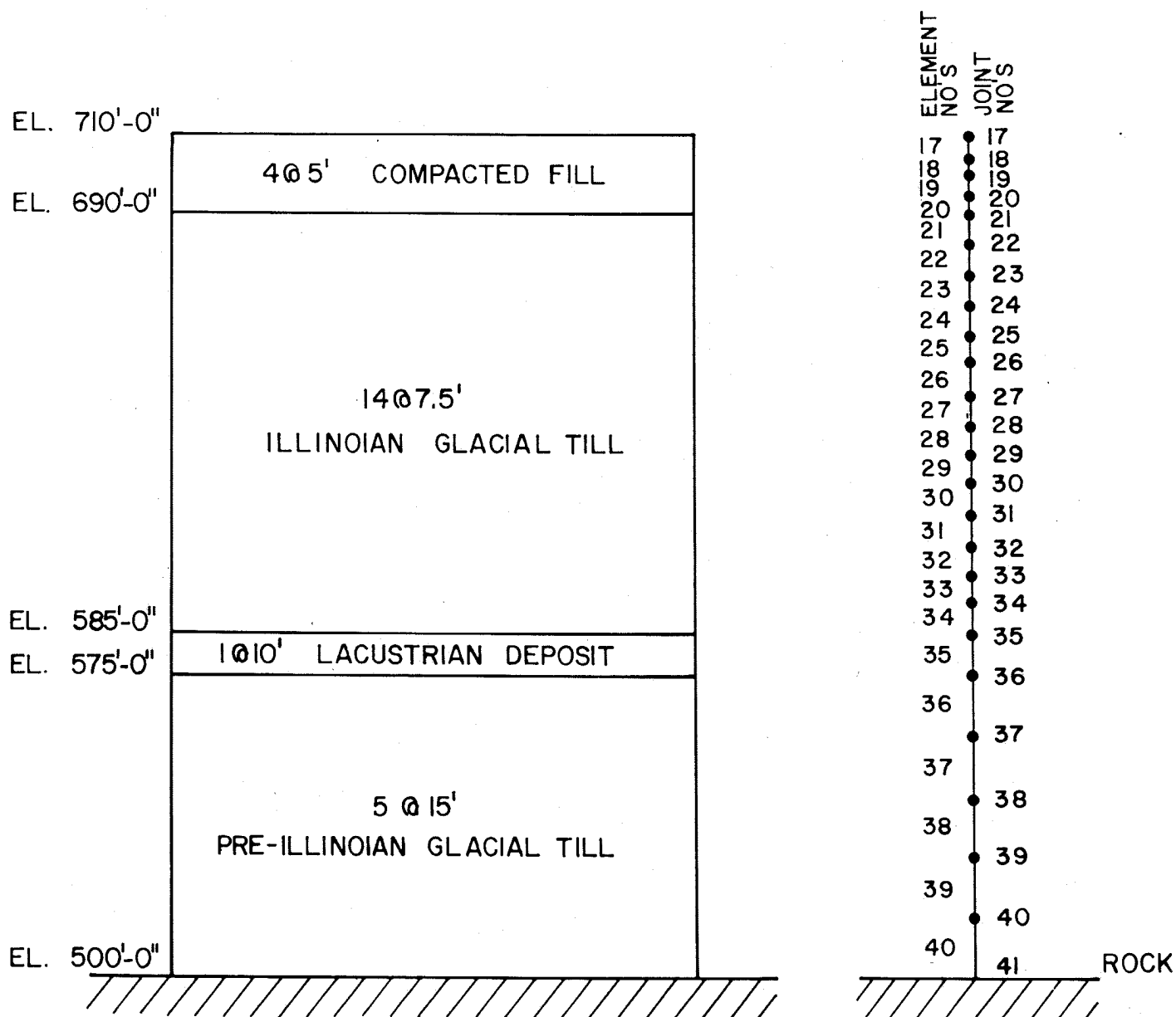
NOTE: UNIT 2 HAS BEEN CANCELLED.

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FIGURE 3.7-59

HORIZONTAL 2-UNIT BUILDING
MODEL FOR SOIL
STRUCTURE INTERACTION

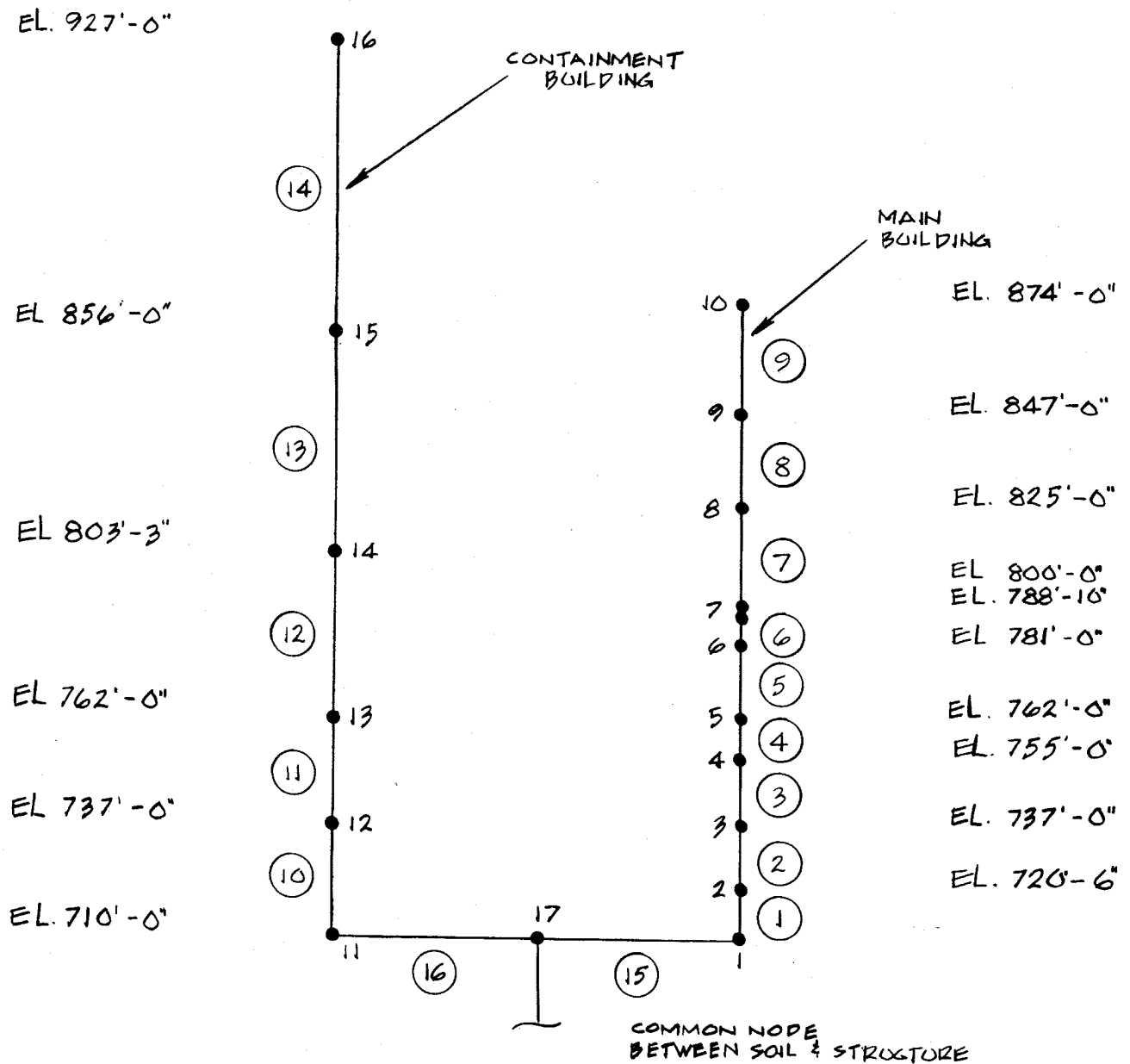
FIGURES 3.7-60 THROUGH 3.7-67
HAVE BEEN DELETED



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FIGURE 3.7-68

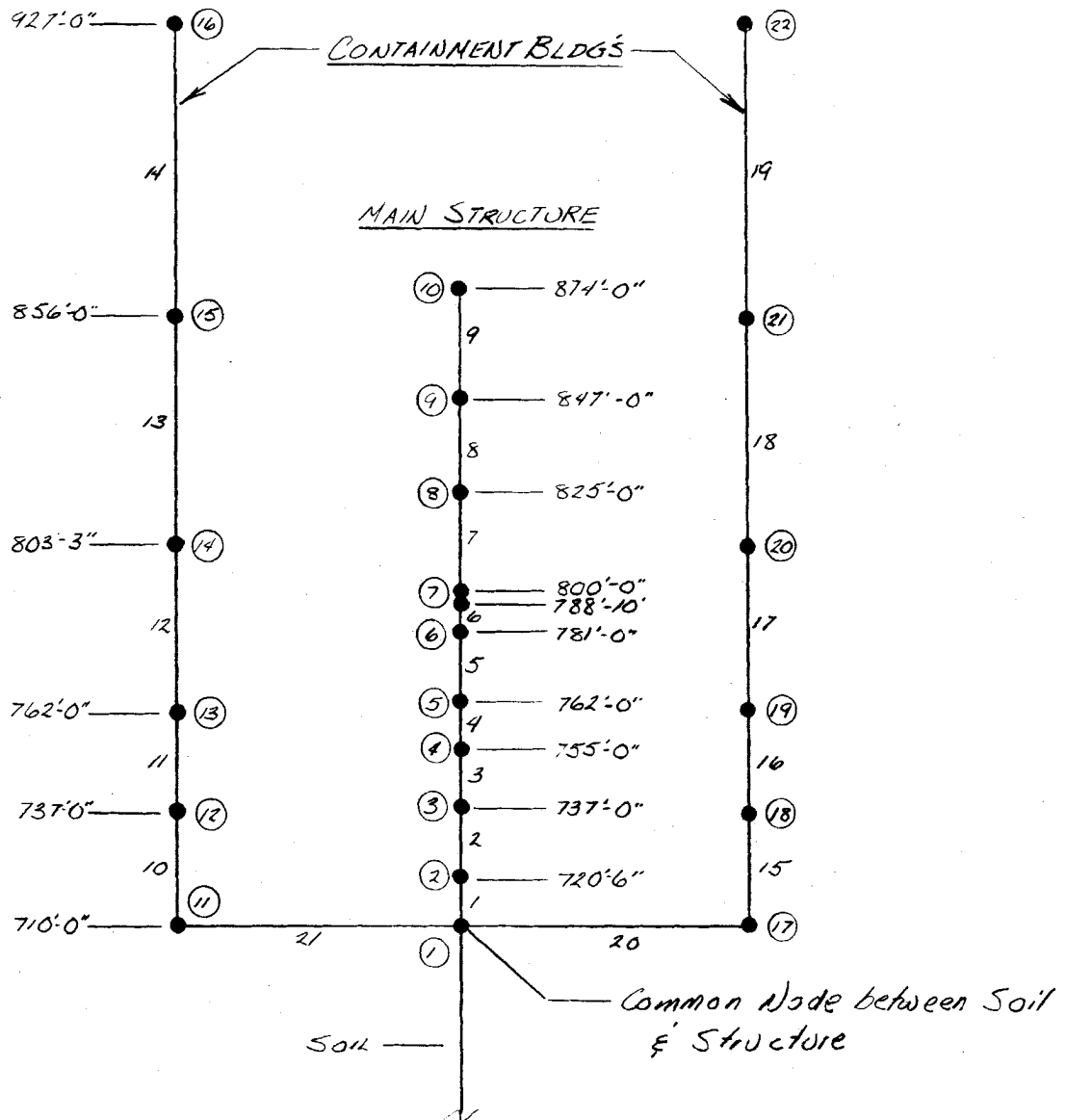
VERTICAL SOIL MODEL FOR
SOIL STRUCTURE INTERACTION



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FIGURE 3.7-69

1-UNIT BUILDING MODEL FOR
VERTICAL SOIL-STRUCTURE INTERACTION

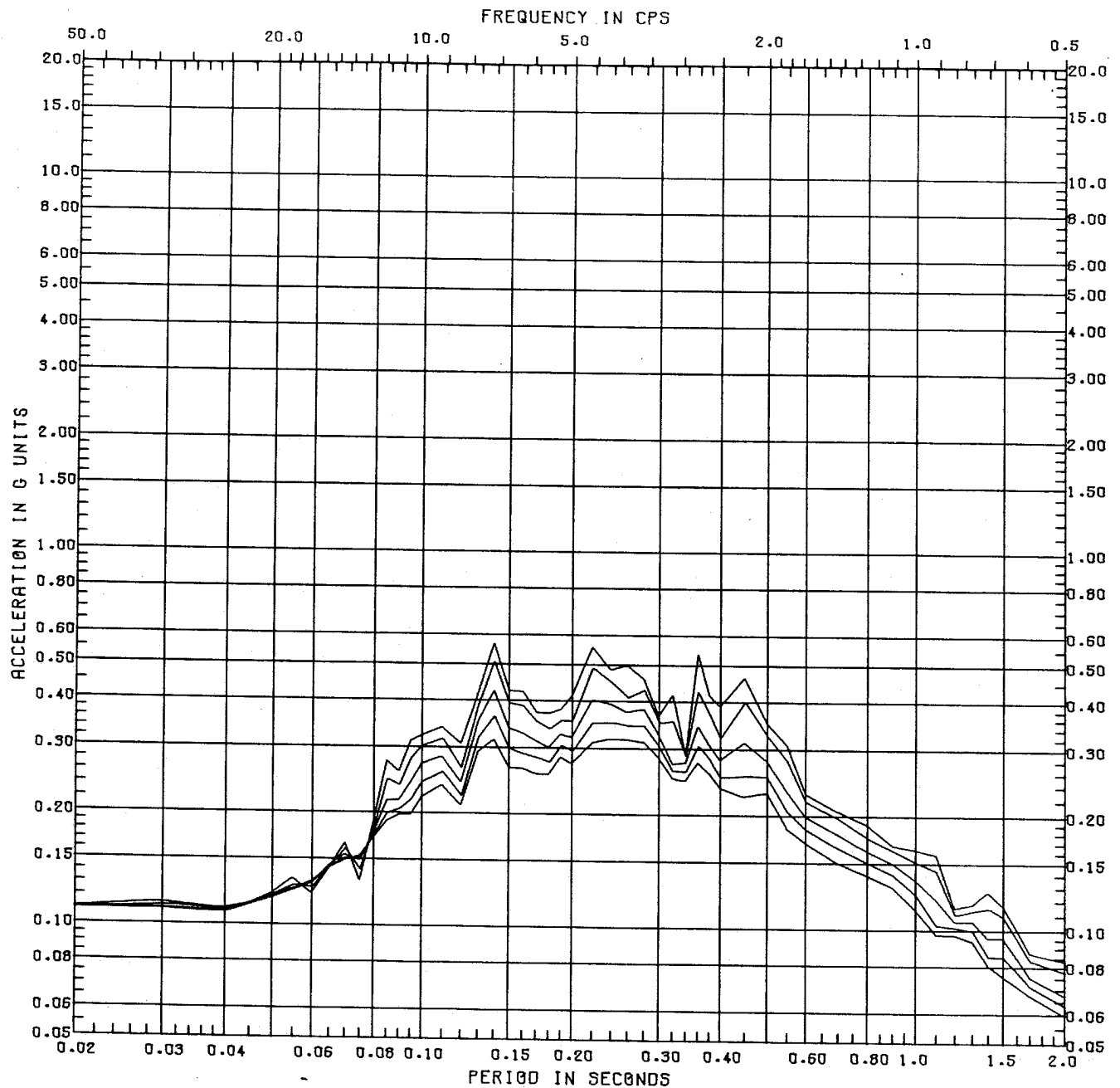


NOTE: UNIT 2 HAS BEEN CANCELLED.

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FIGURE 3.7-70

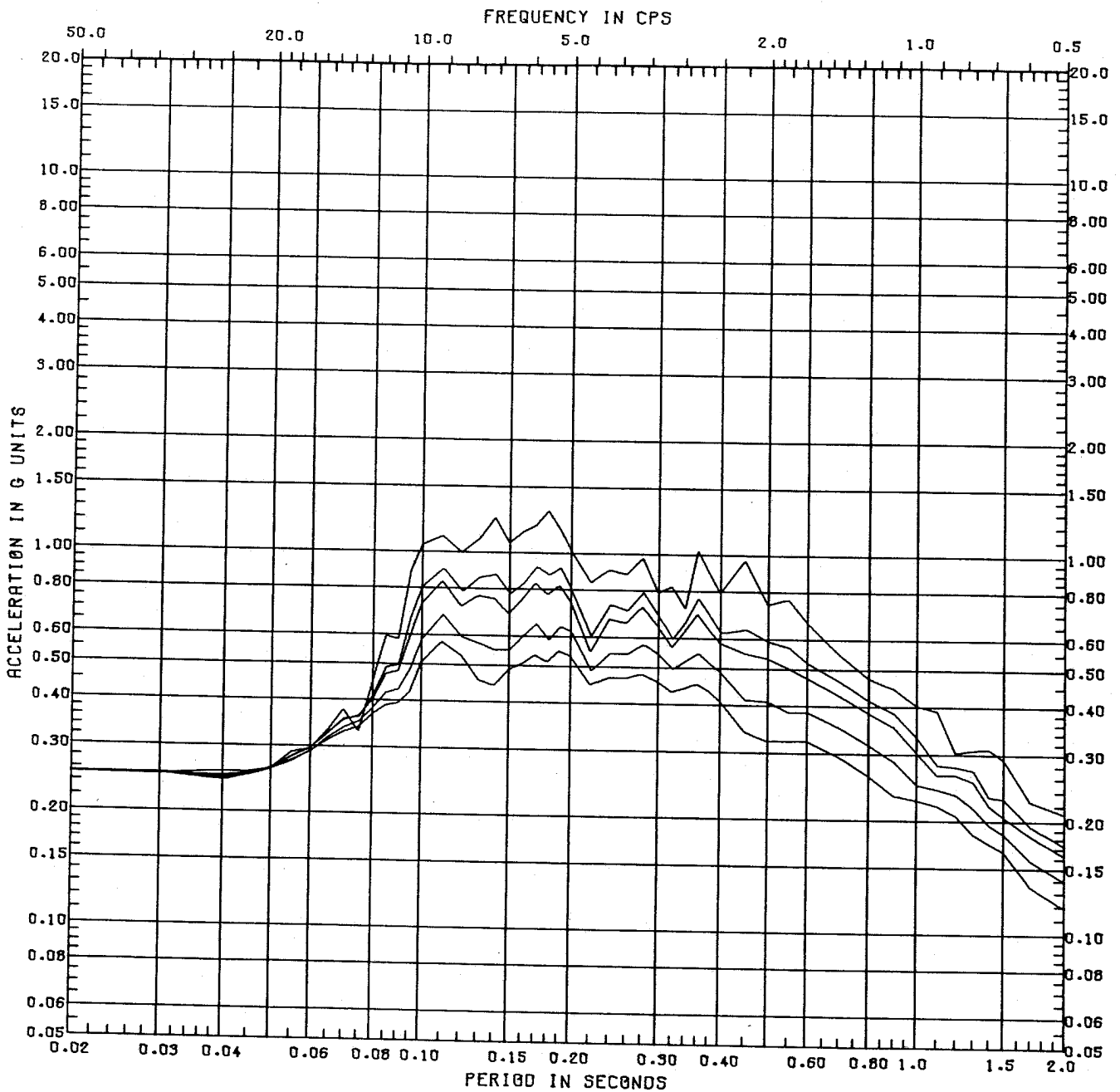
2-UNIT BUILDING MODEL FOR
VERTICAL SOIL STRUCTURE INTERACTION



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FIGURE 3.7-71

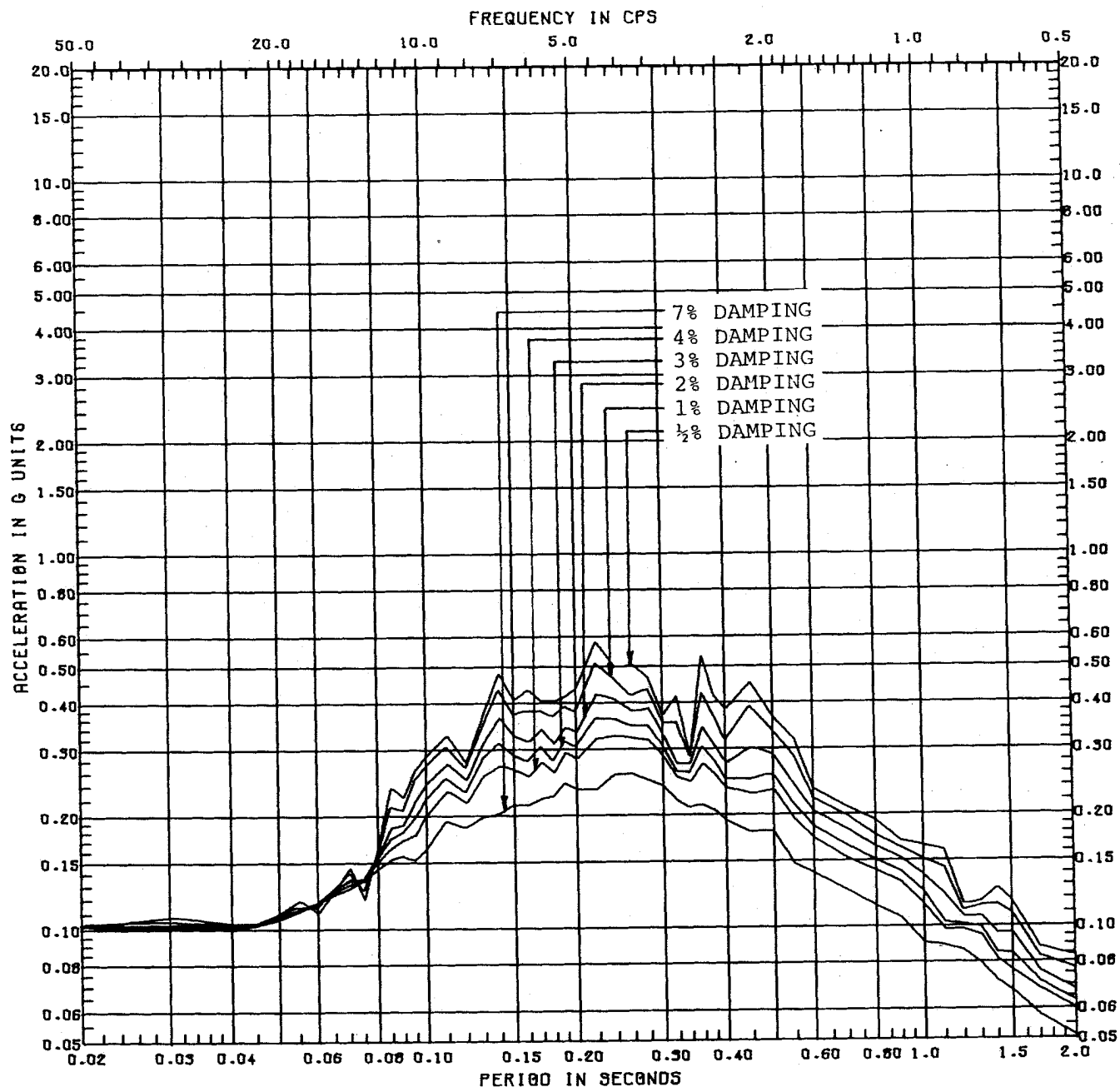
OBE VERTICAL FOUNDATION INTERACTION
SPECTRA FOR 1-UNIT BUILDING MODEL



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UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.7-72

SSE VERTICAL FOUNDATION INTERACTION
SPECTRA FOR 1-UNIT BUILDING MODEL

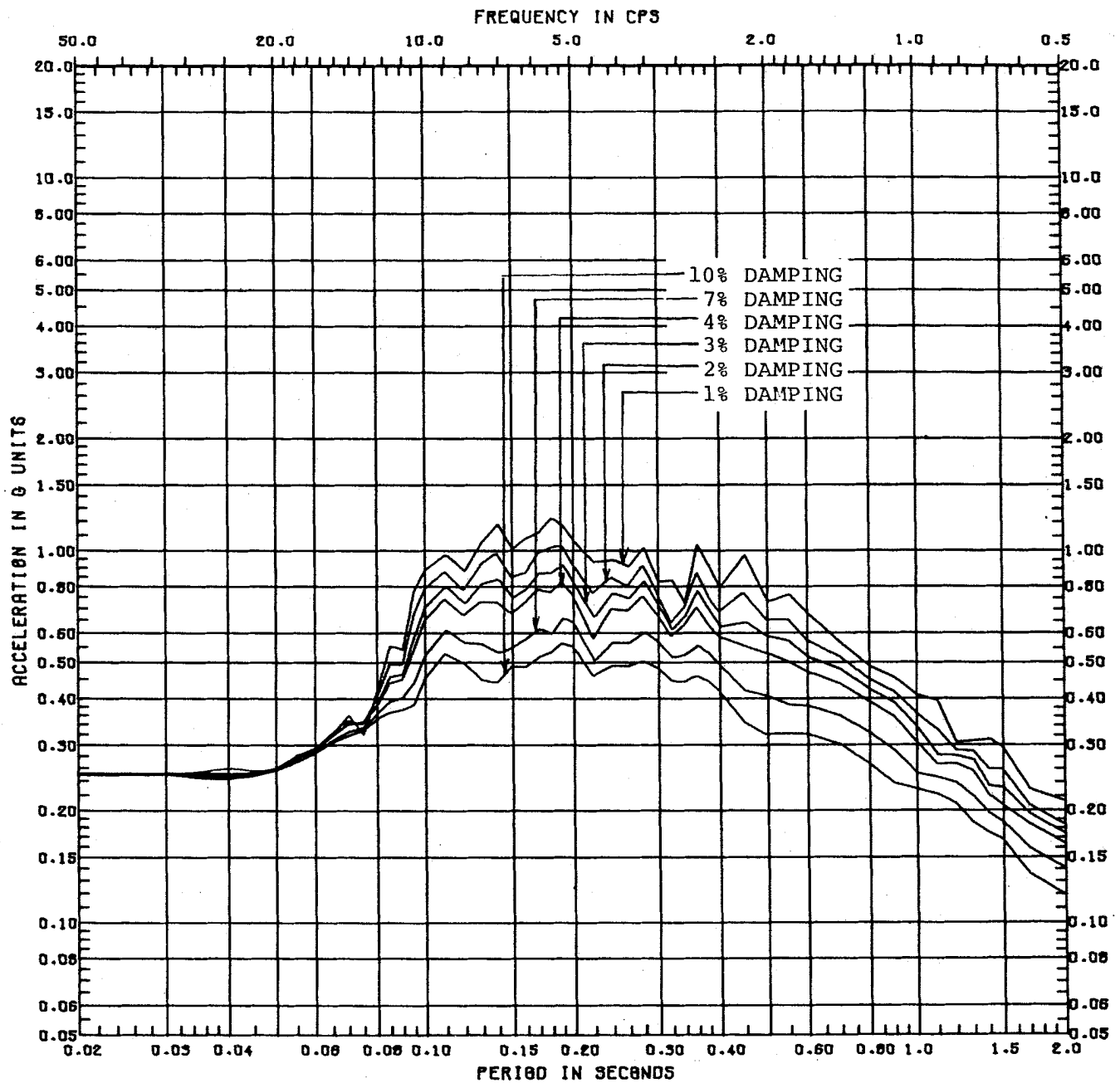


NOTE: UNIT 2 HAS BEEN CANCELLED.

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FIGURE 3.7-73

OBE VERTICAL FOUNDATION
INTERACTION SPECTRA FOR
2-UNIT BUILDING MODEL



NOTE: UNIT 2 HAS BEEN CANCELLED.

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FIGURE 3.7-74

SSE VERTICAL FOUNDATION
INTERACTION SPECTRA FOR
2-UNIT BUILDING MODEL

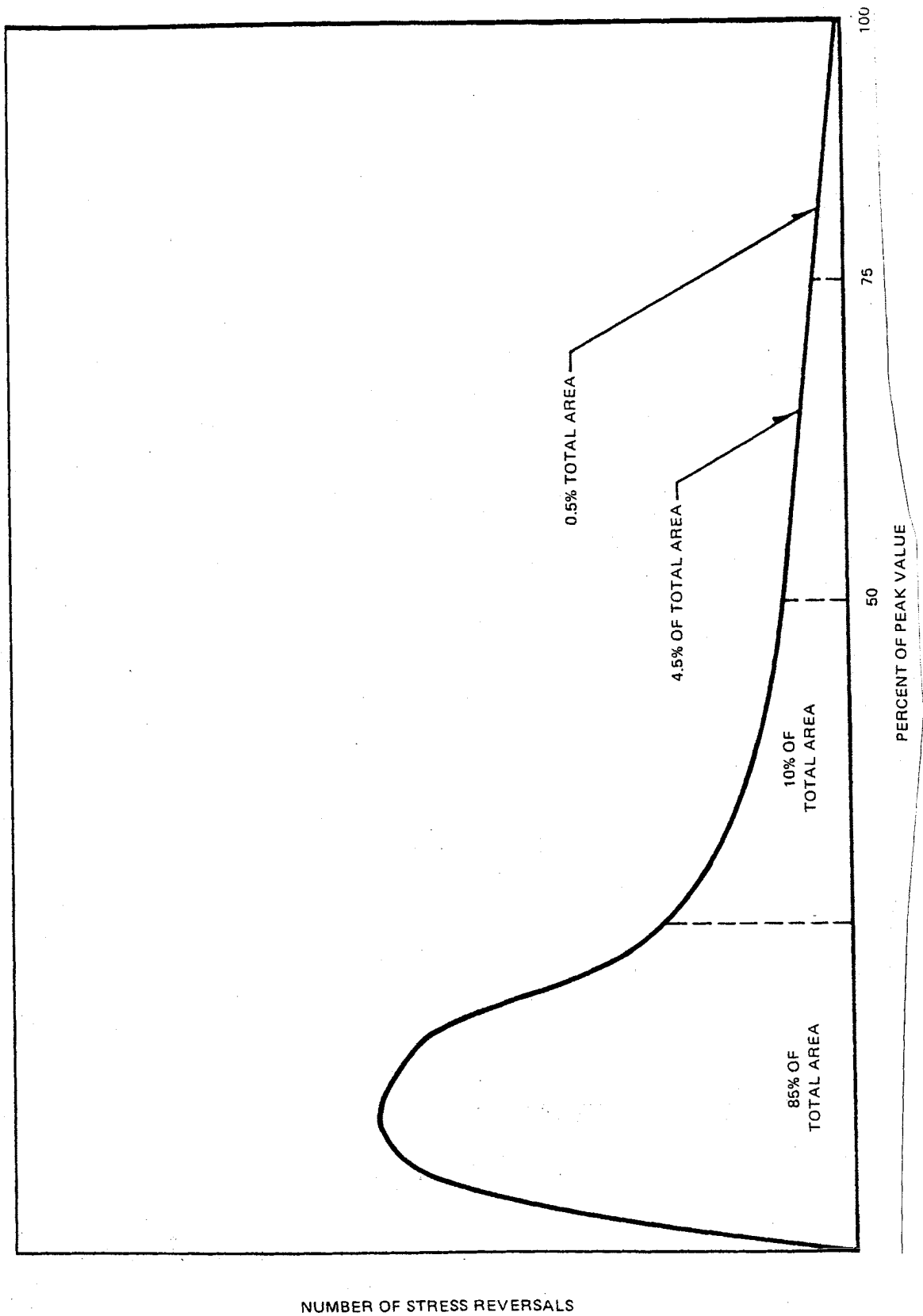
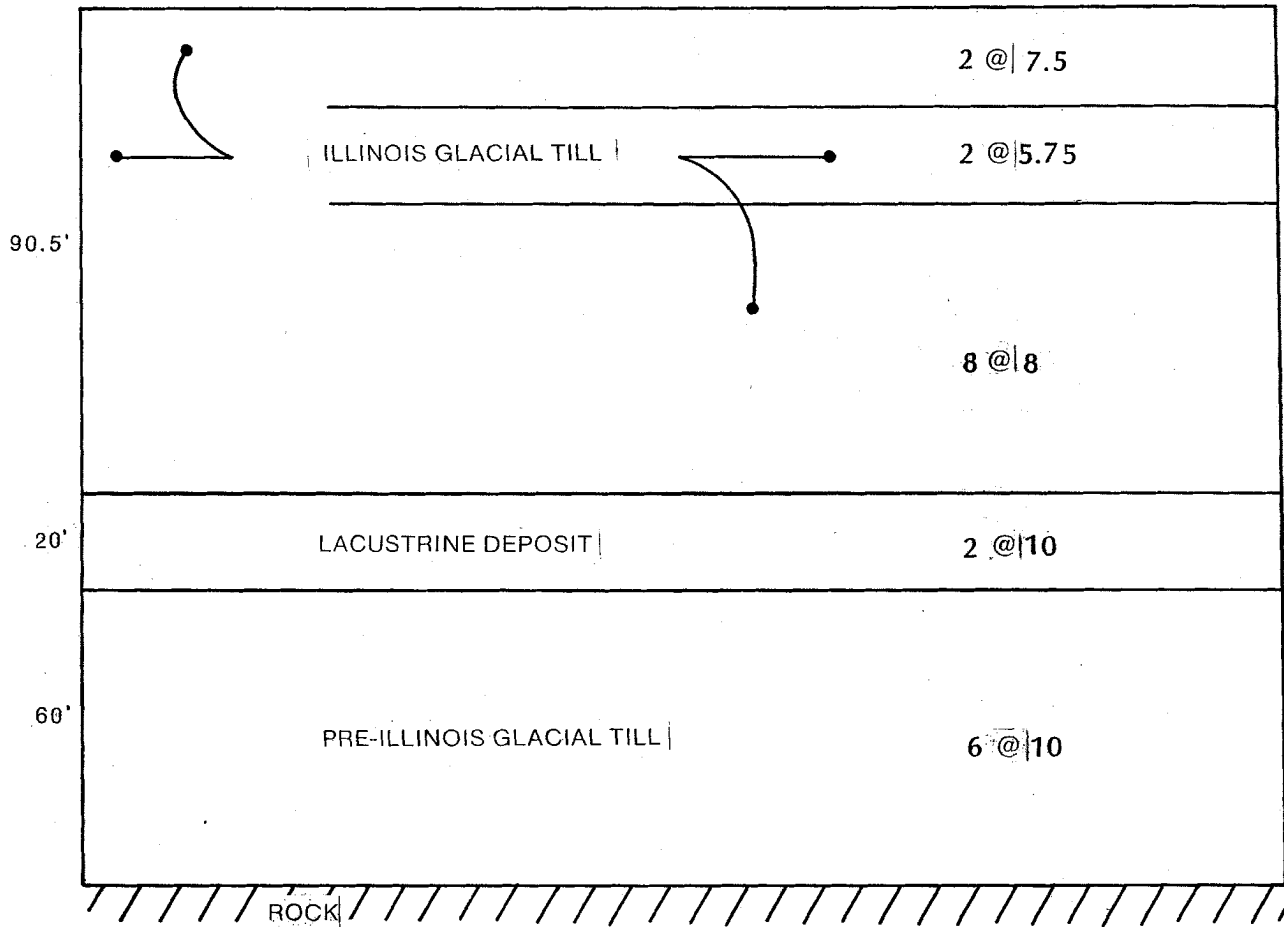


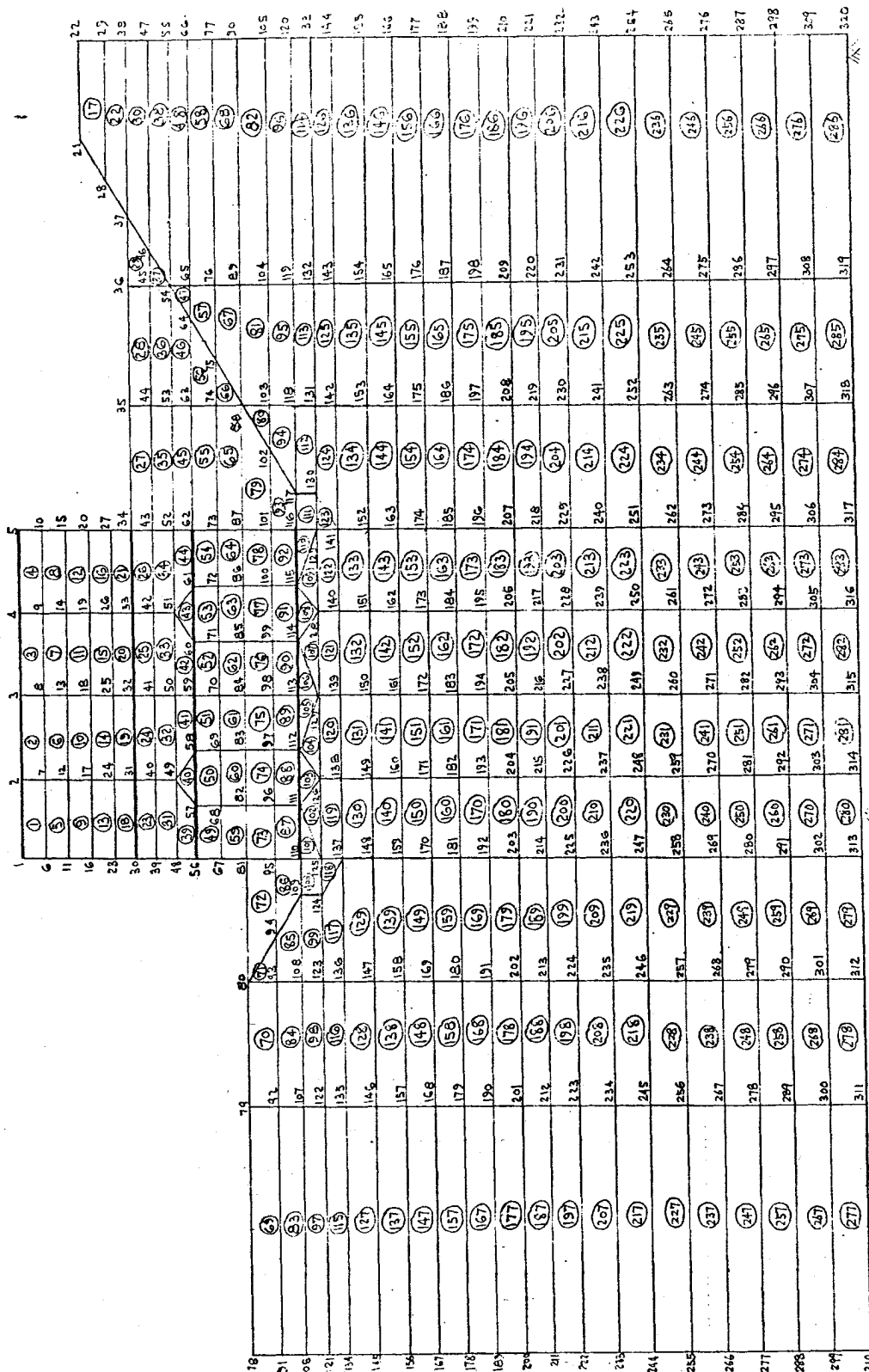
FIGURE 3.7-75 DENSITY OF STRESS REVERSALS



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FIGURE 3.7-76

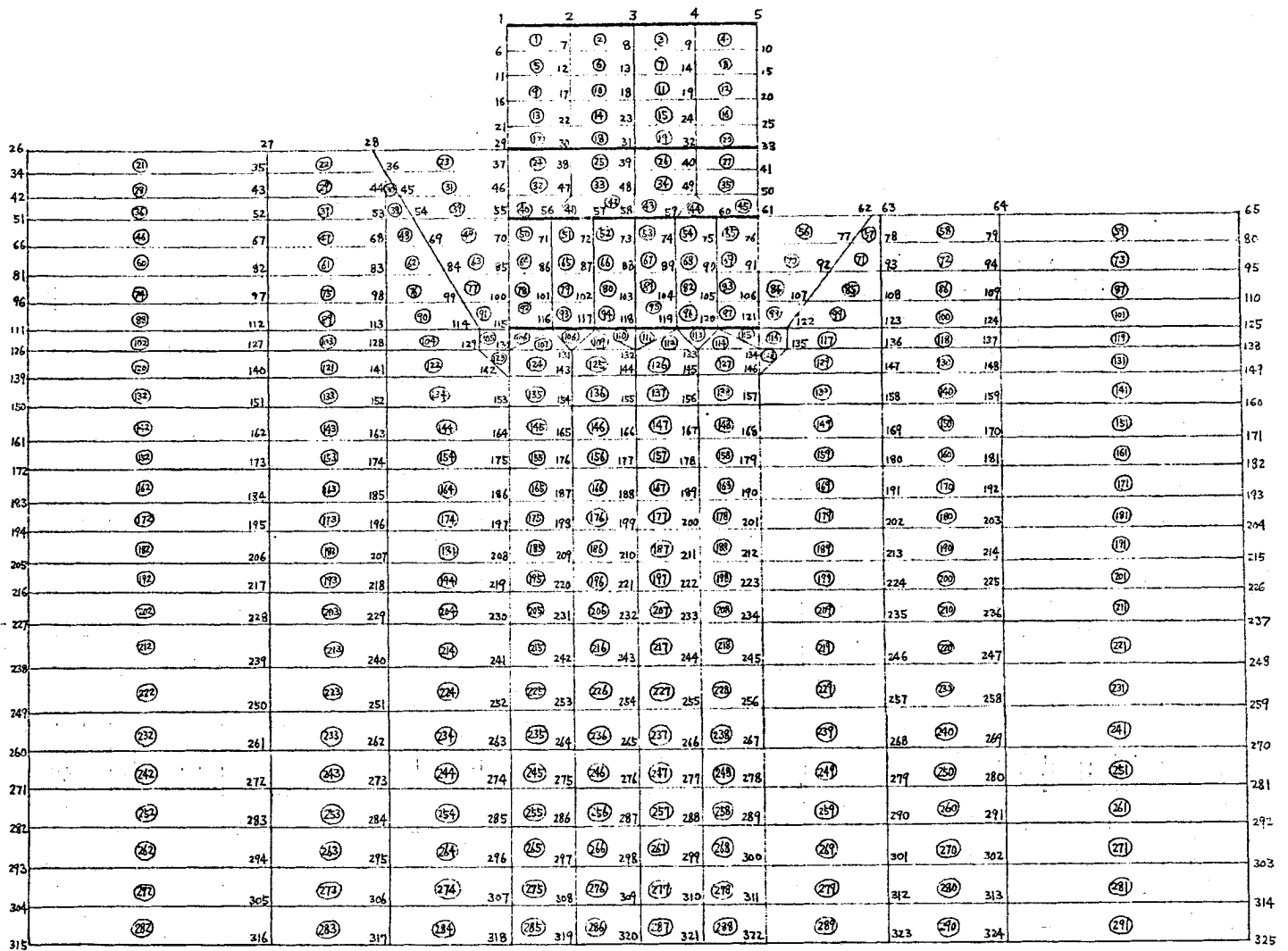
SHAKE SOIL MODEL FOR CIRCULATING
WATER SCREEN HOUSE ANALYSIS



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FIGURE 3.7-77

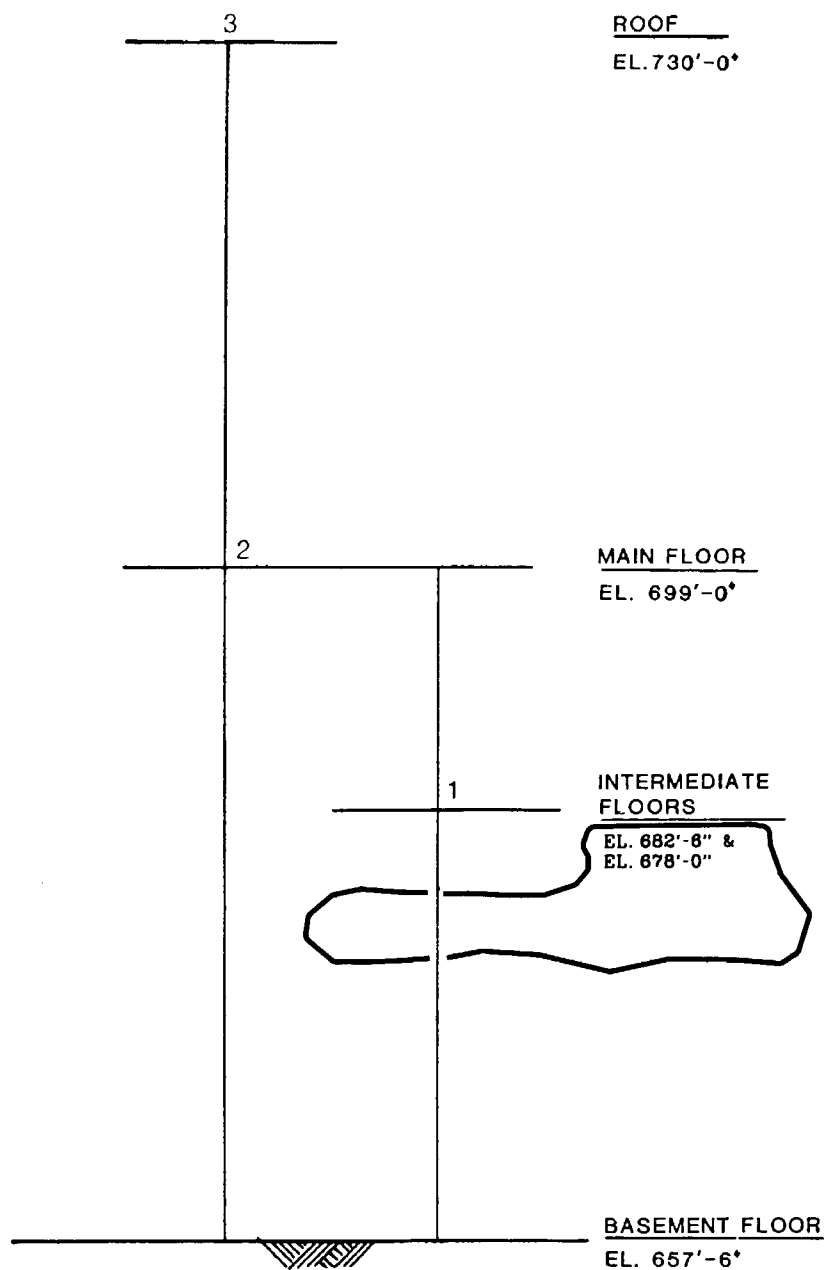
EAST-WEST HORIZONTAL SOIL STRUCTURE
INTERACTION MODEL FOR CWSH



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FIGURE 3.7-78

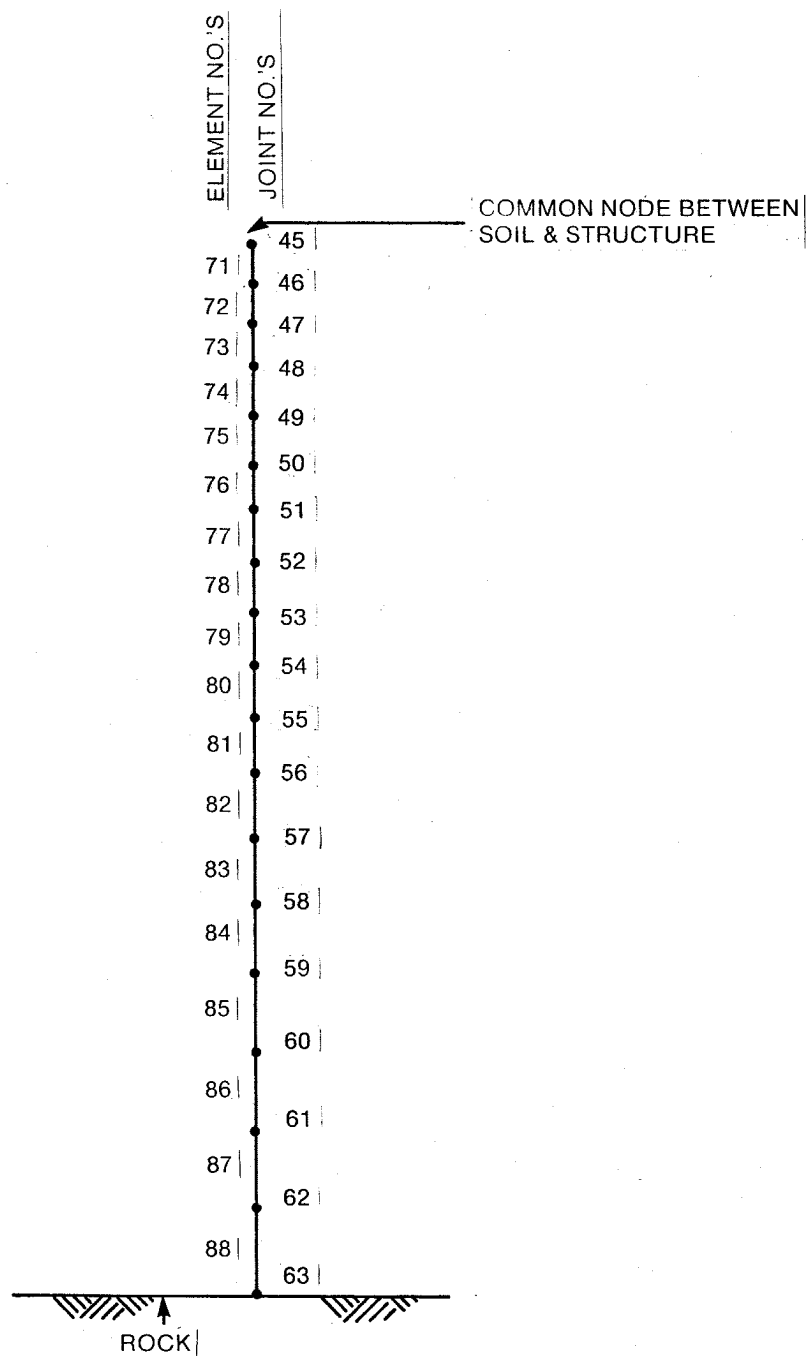
NORTH-SOUTH HORIZONTAL SOIL
STRUCTURE INTERACTION MODEL
FOR CWSH



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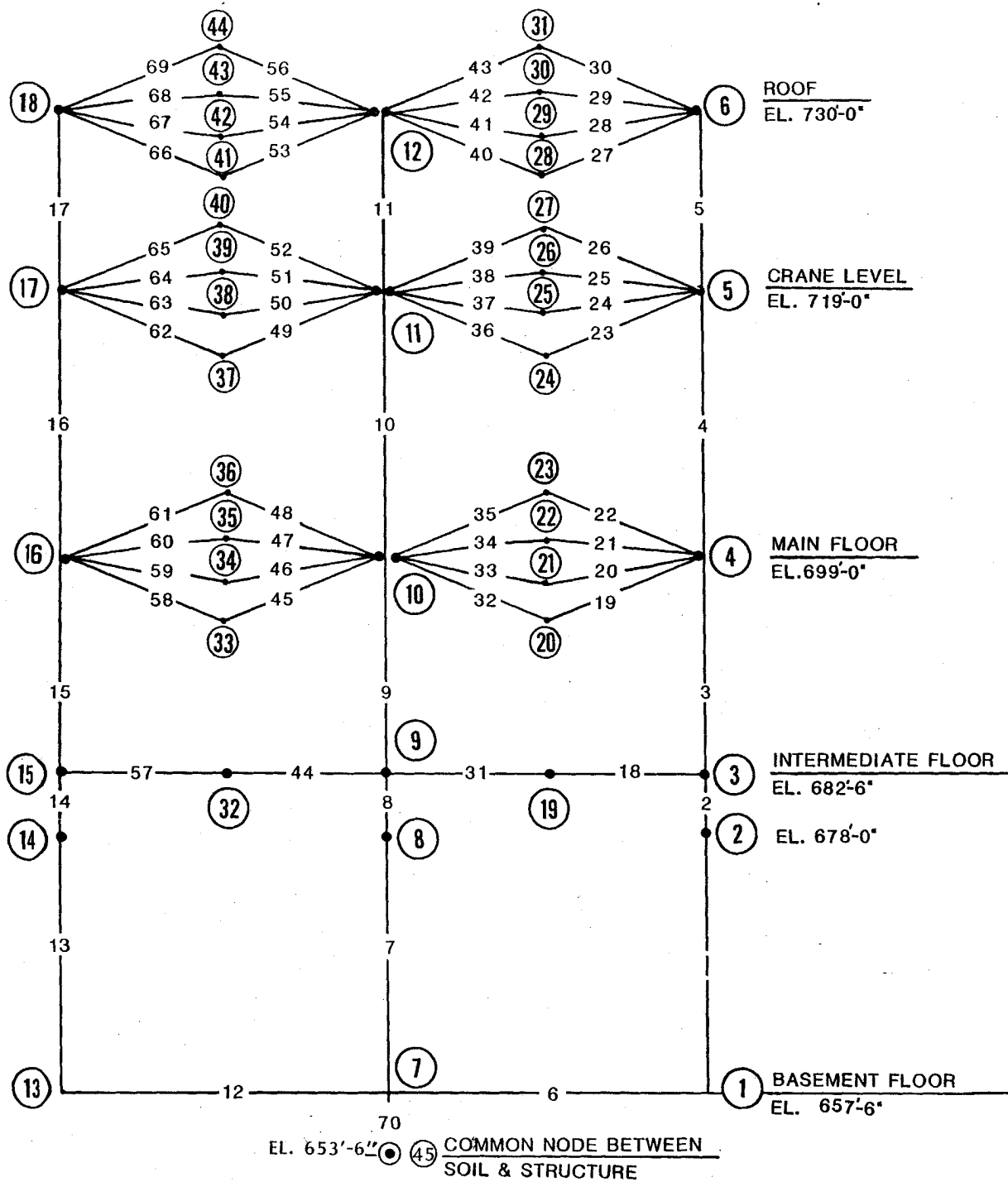
FIGURE 3.7-79

HORIZONTAL MODEL FOR CWSH



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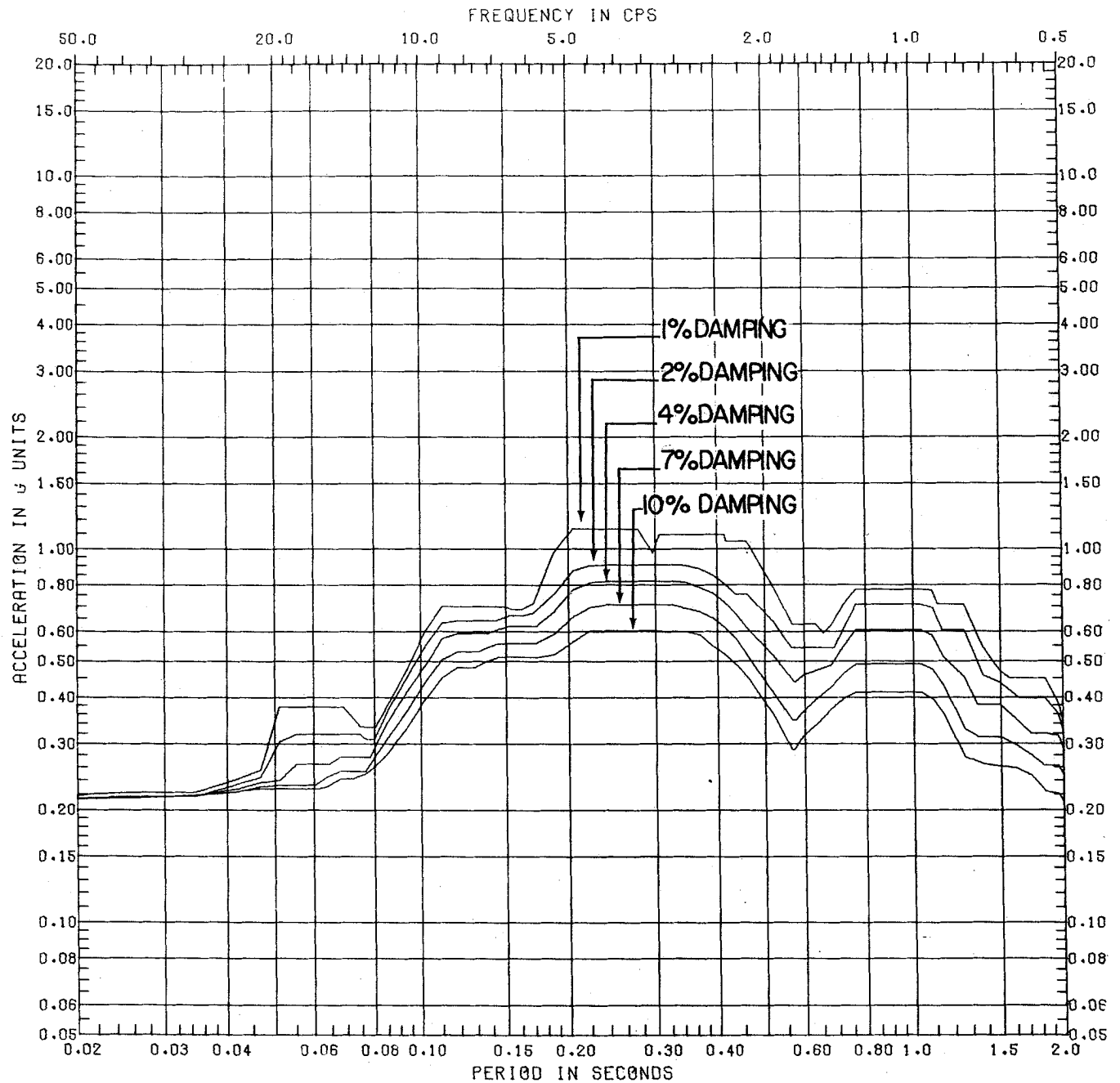
**FIGURE 3.7-80
SOIL COLUMN FOR
VERTICAL CWSH ANALYSIS**



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FIGURE 3.7-81

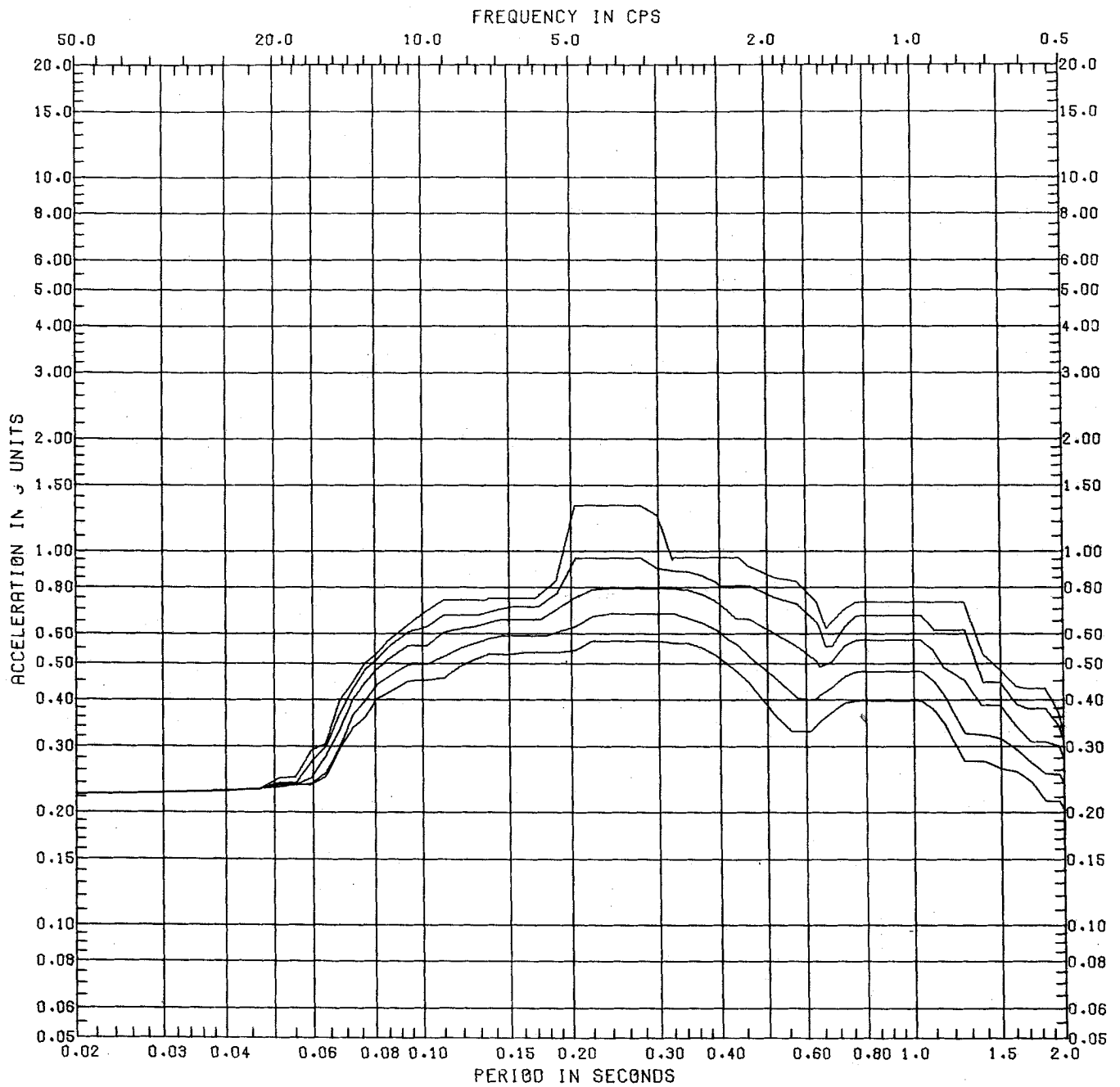
VERTICAL MODEL FOR CWSH



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FIGURE 3.7-82

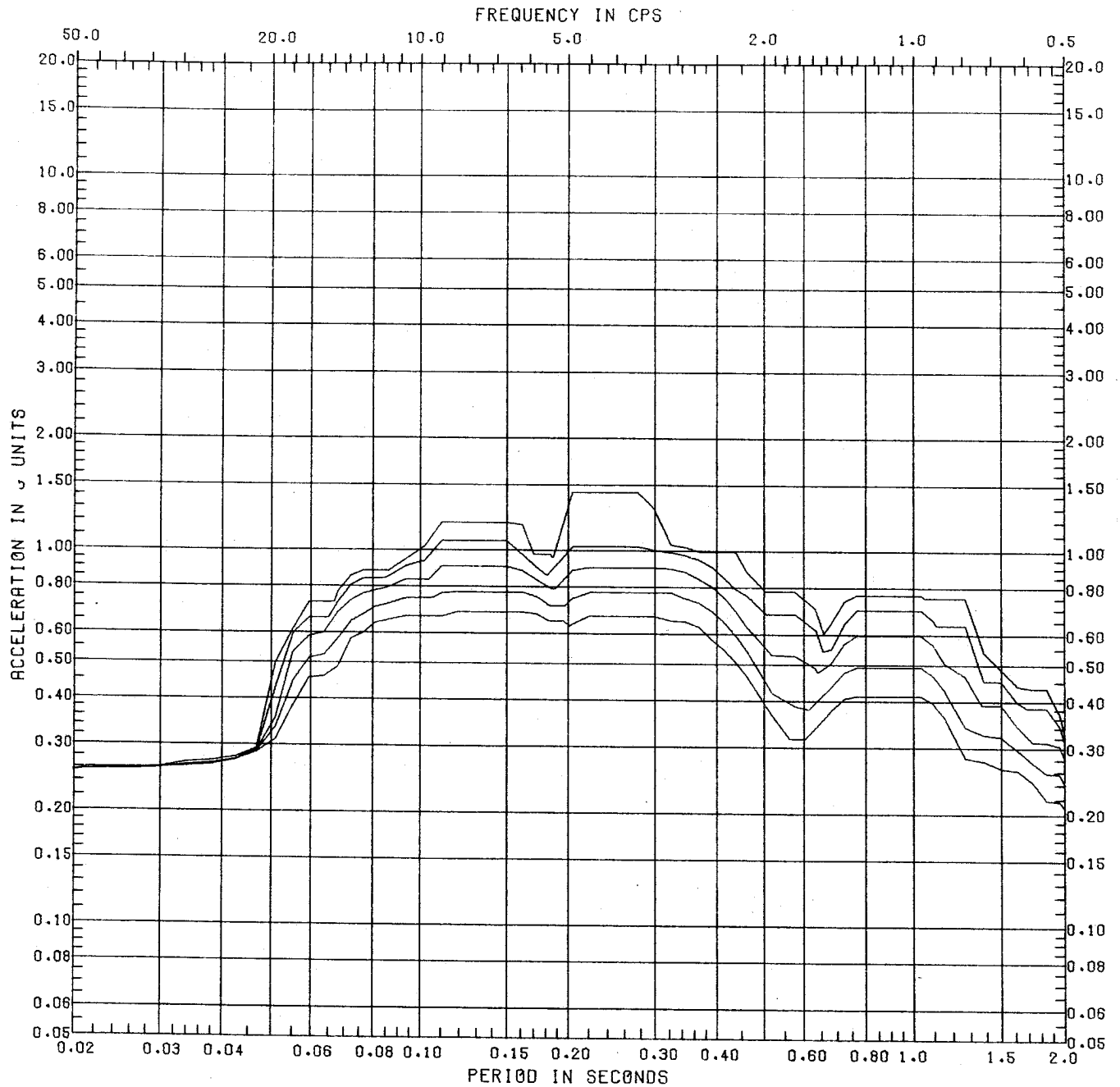
**HORIZONTAL
SSE RESPONSE SPECTRA CWSH -
BASE ELEVATION 653'-6" N-S**



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UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.7-83

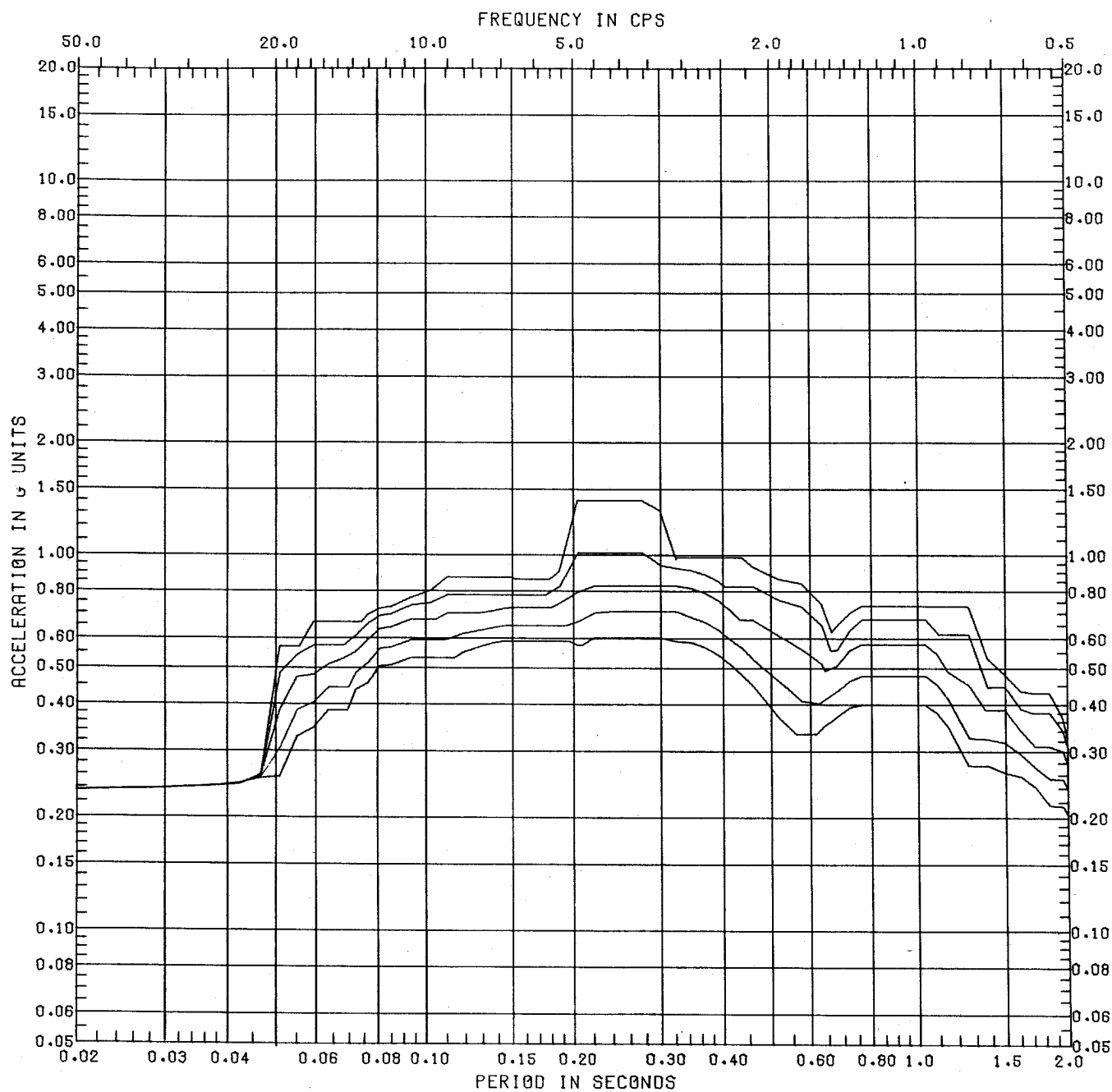
HORIZONTAL
SSE RESPONSE SPECTRA CWSH -
BASE ELEVATION 653'-6" E-W



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UPDATED SAFETY ANALYSIS REPORT**

FIGURE 3.7-84

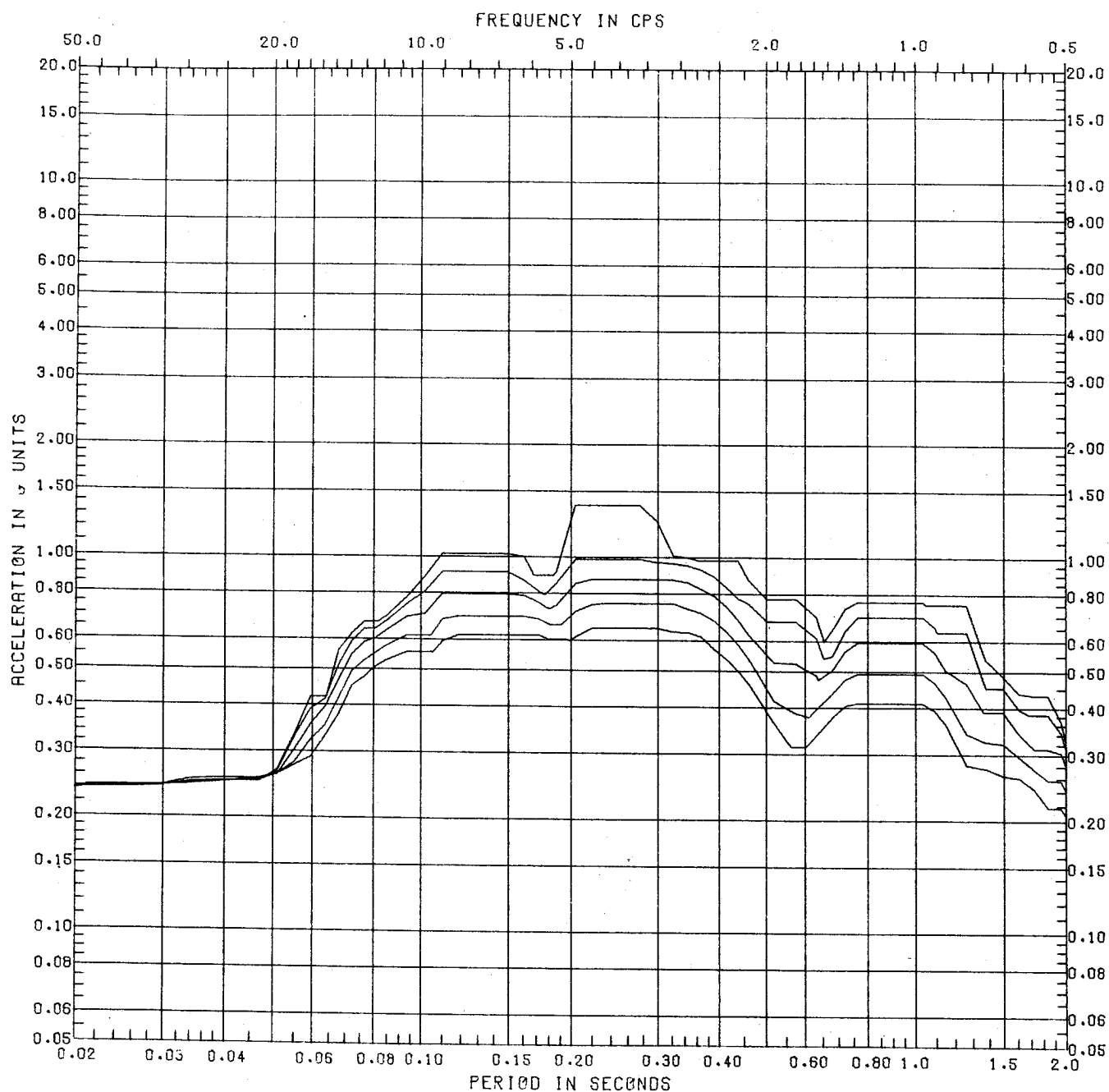
HORIZONTAL
SSE RESPONSE SPECTRA CWSH -
MAIN FLOOR ELEVATION 699'-0" N-S



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UPDATED SAFETY ANALYSIS REPORT**

FIGURE 3.7-85

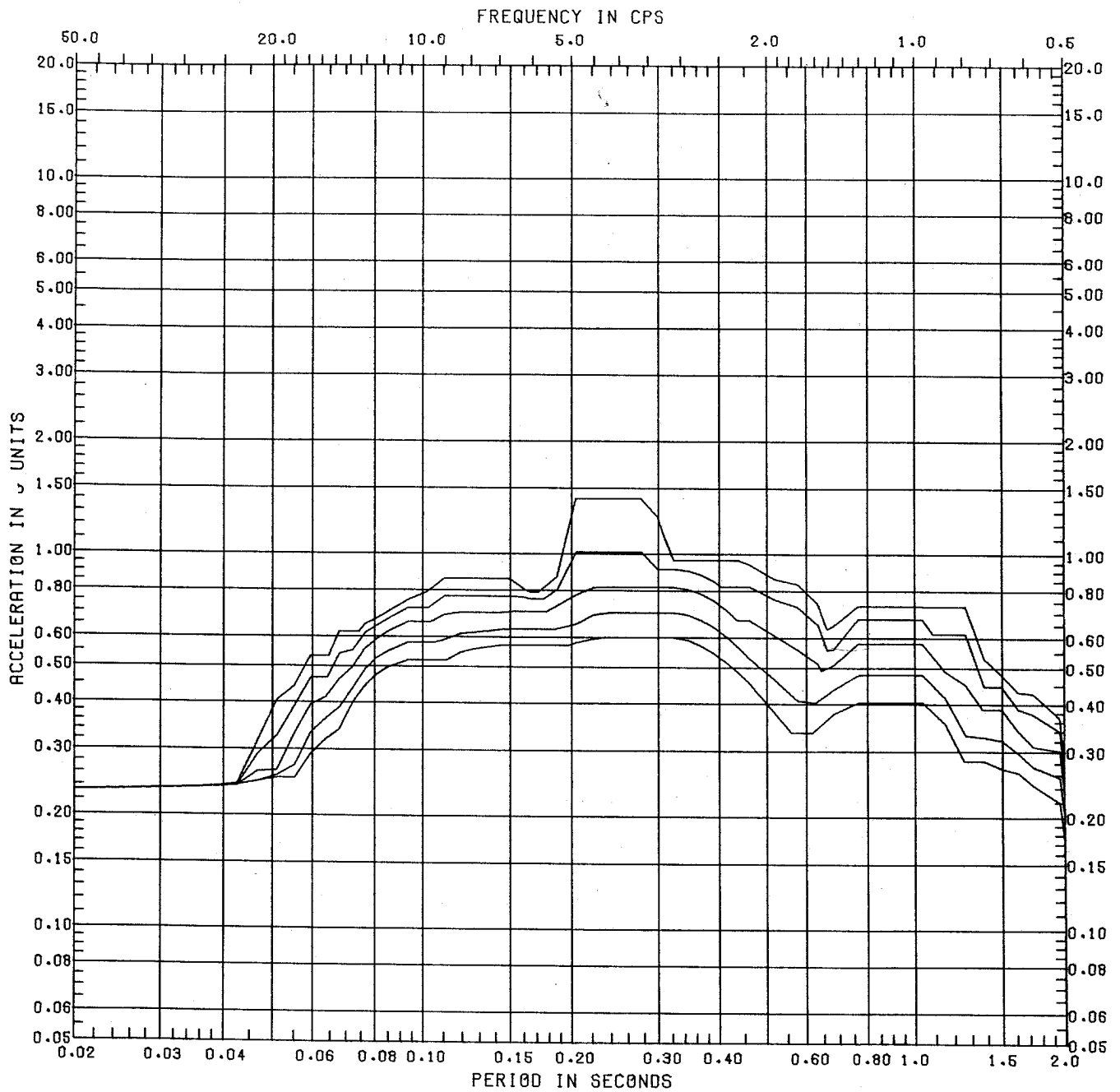
HORIZONTAL
SSE RESPONSE SPECTRA CWSH -
MAIN FLOOR ELEVATION 699'-0" E-W



**CLINTON POWER STATION
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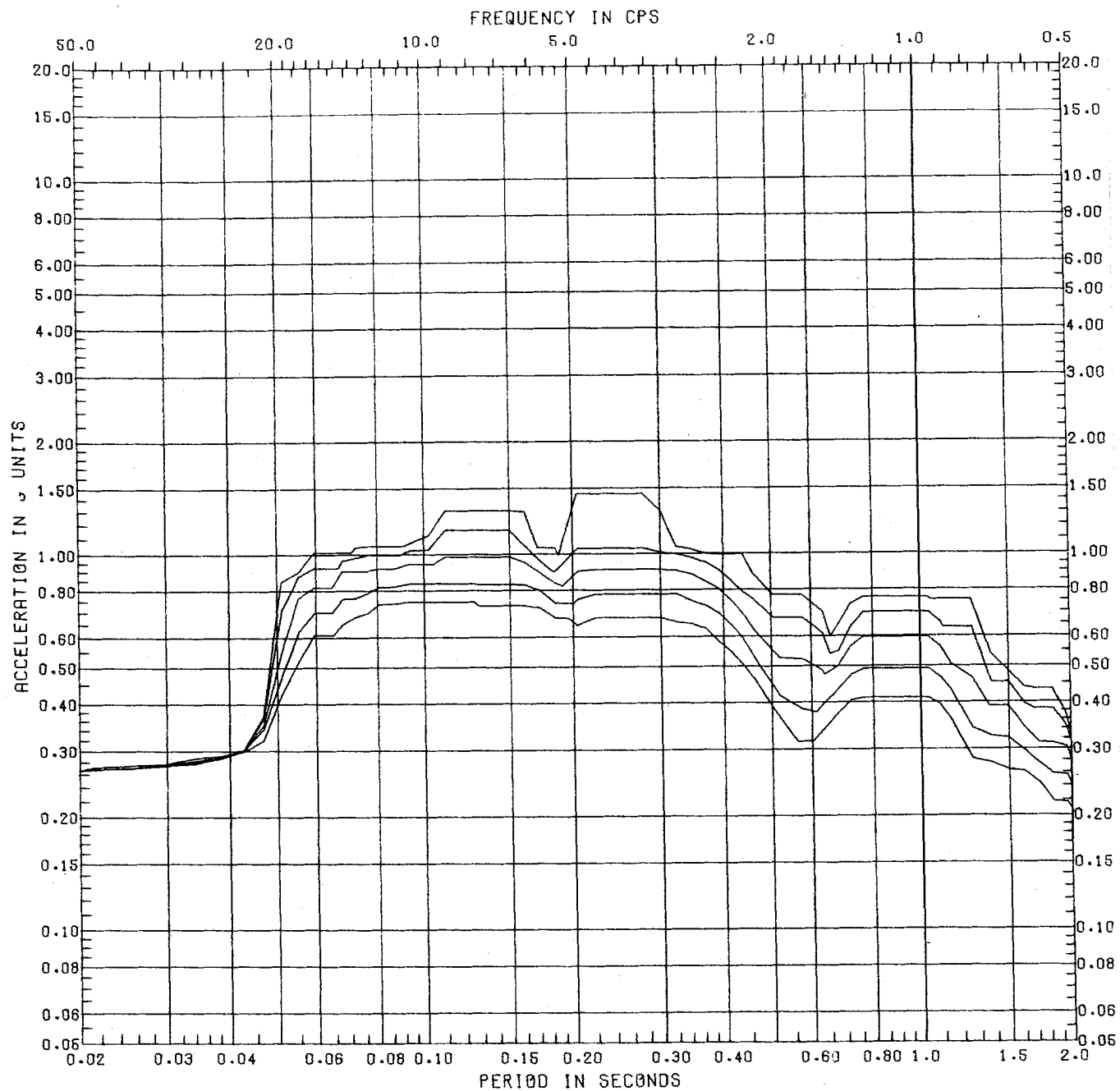
FIGURE 3.7-86

**HORIZONTAL
SSE RESPONSE SPECTRA CWSH -
INTERMEDIATE FLOOR
ELEVATION 682'-6" N-S**



**CLINTON POWER STATION
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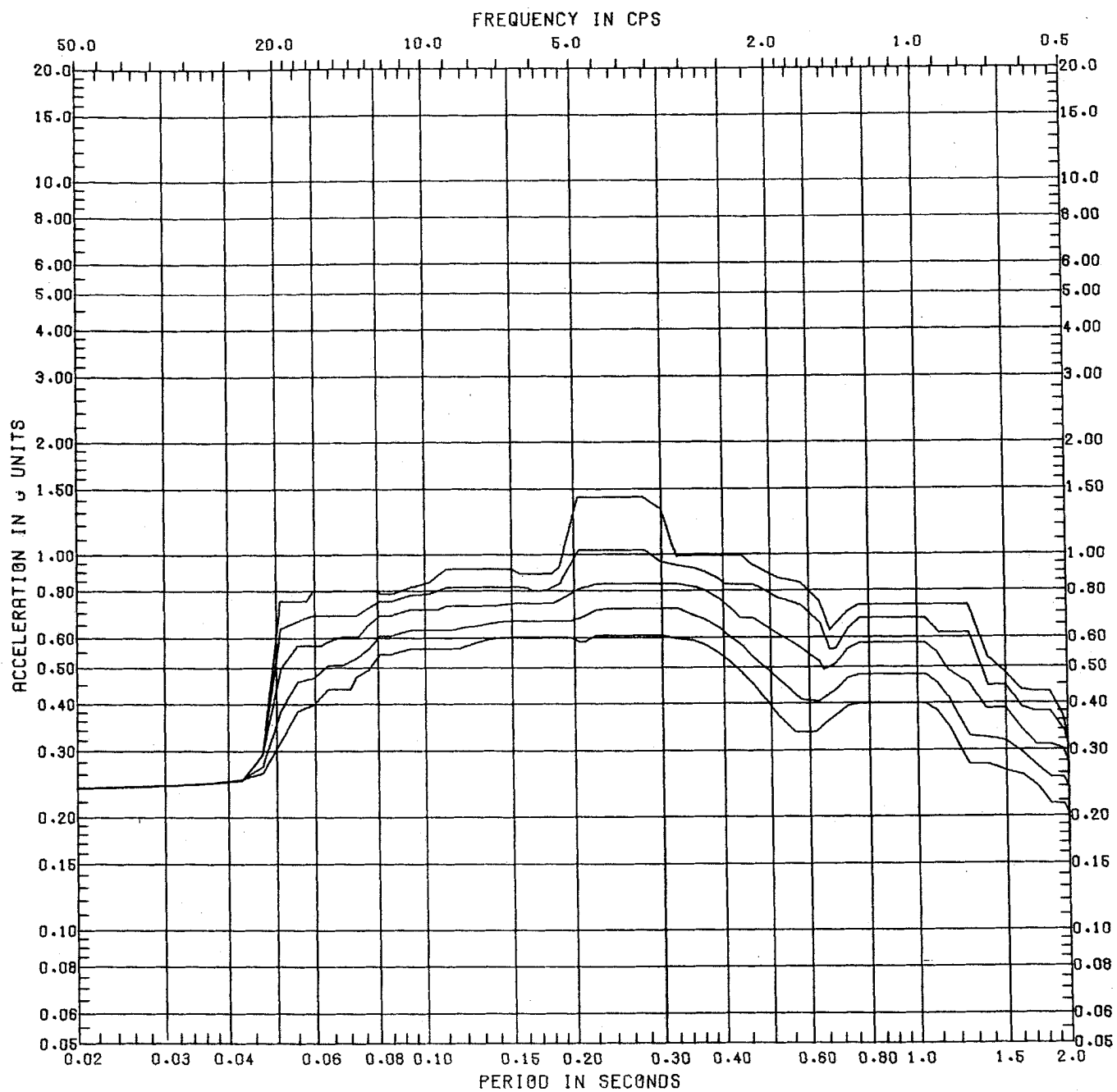
FIGURE 3.7-87
HORIZONTAL
SSE RESPONSE SPECTRA CWSH -
INTERMEDIATE FLOOR
ELEVATION 682'-6" E-W



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UPDATED SAFETY ANALYSIS REPORT**

FIGURE 3.7-88

HORIZONTAL
SSE RESPONSE SPECTRA CWSH -
ROOF ELEVATION 730'-0" N-S

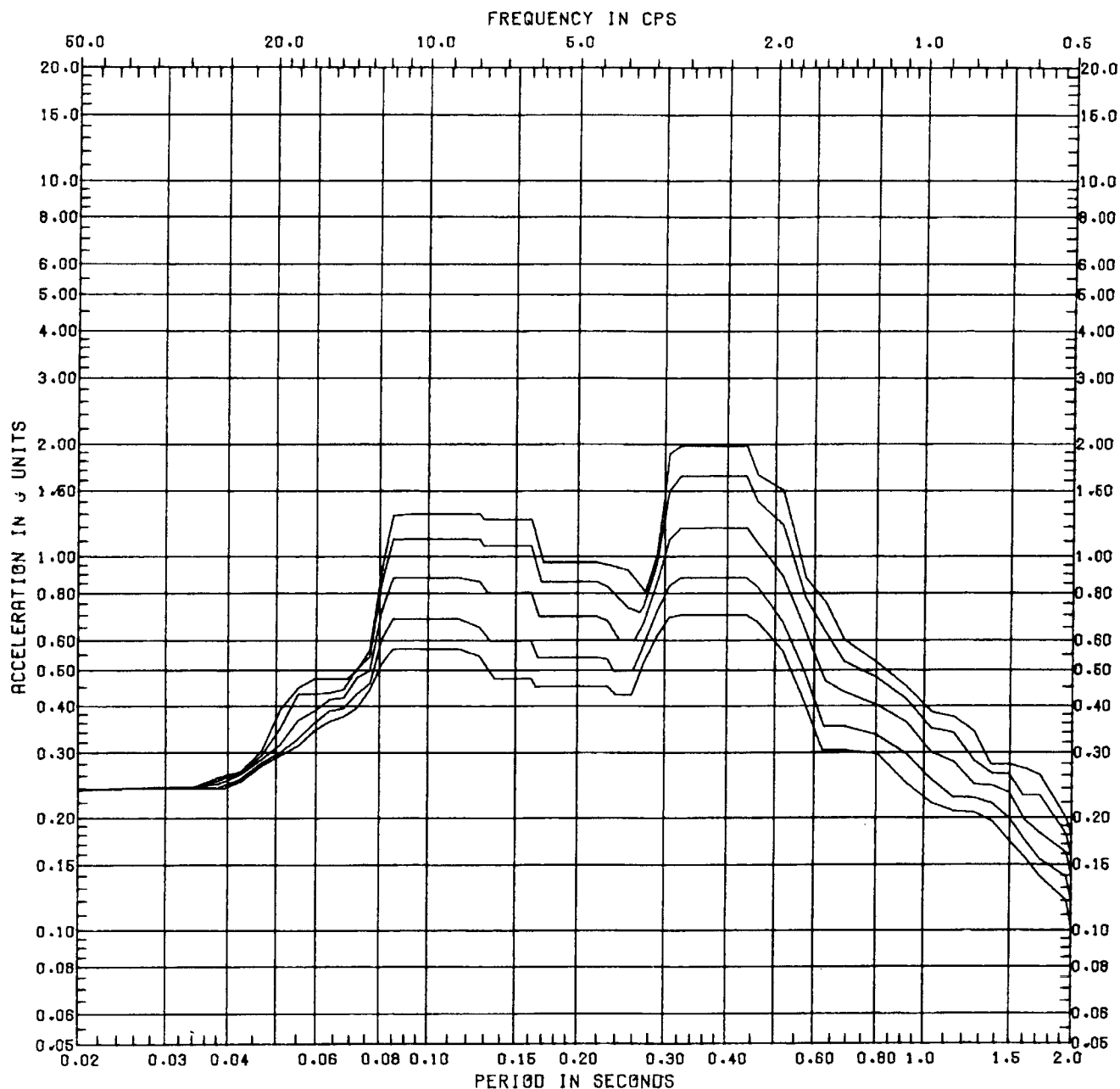


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FIGURE 3.7-89

HORIZONTAL
SSE RESPONSE SPECTRA CWSH -
ROOF ELEVATION 730'-0" E-W

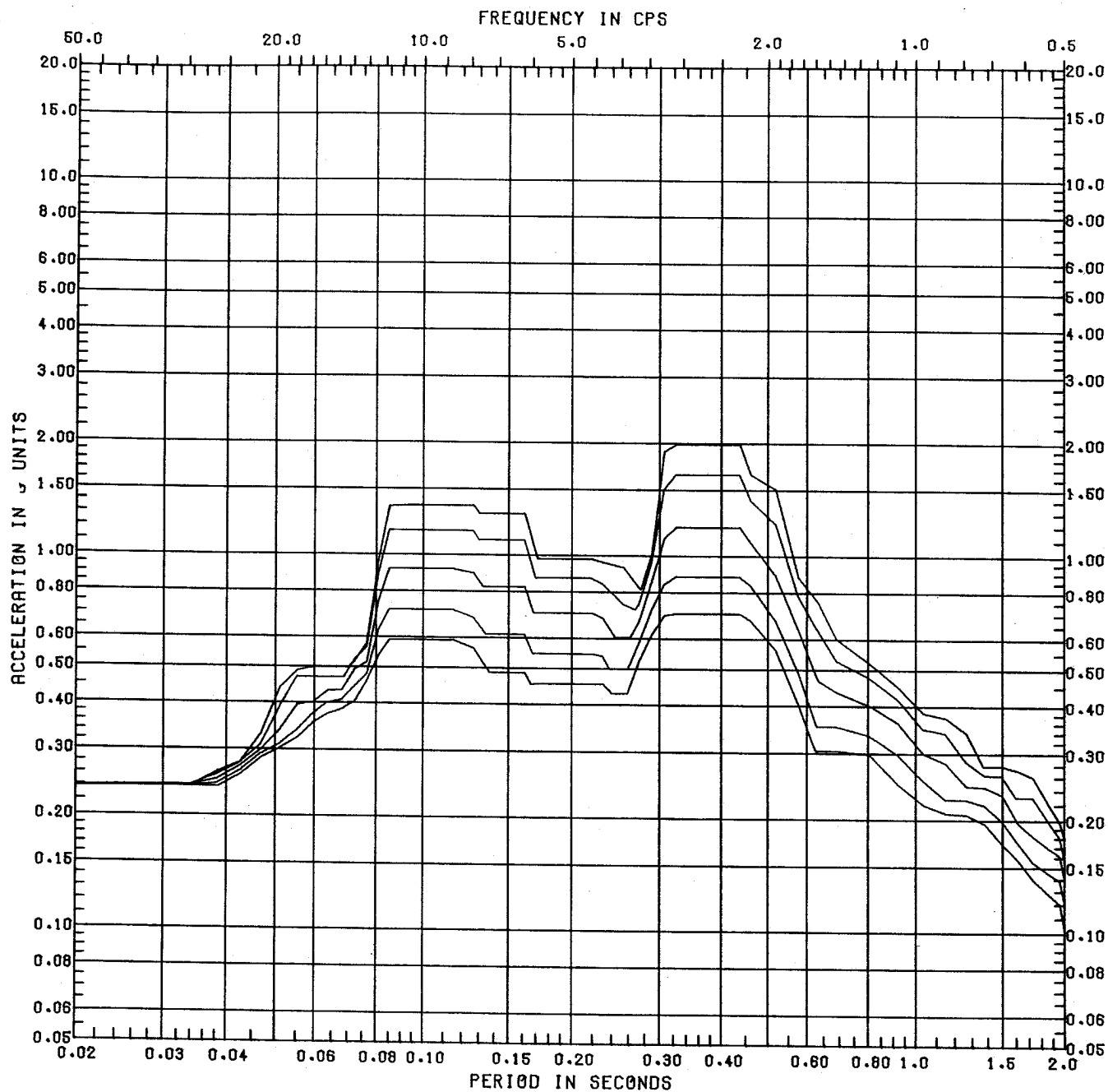
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FIGURE 3.7-90

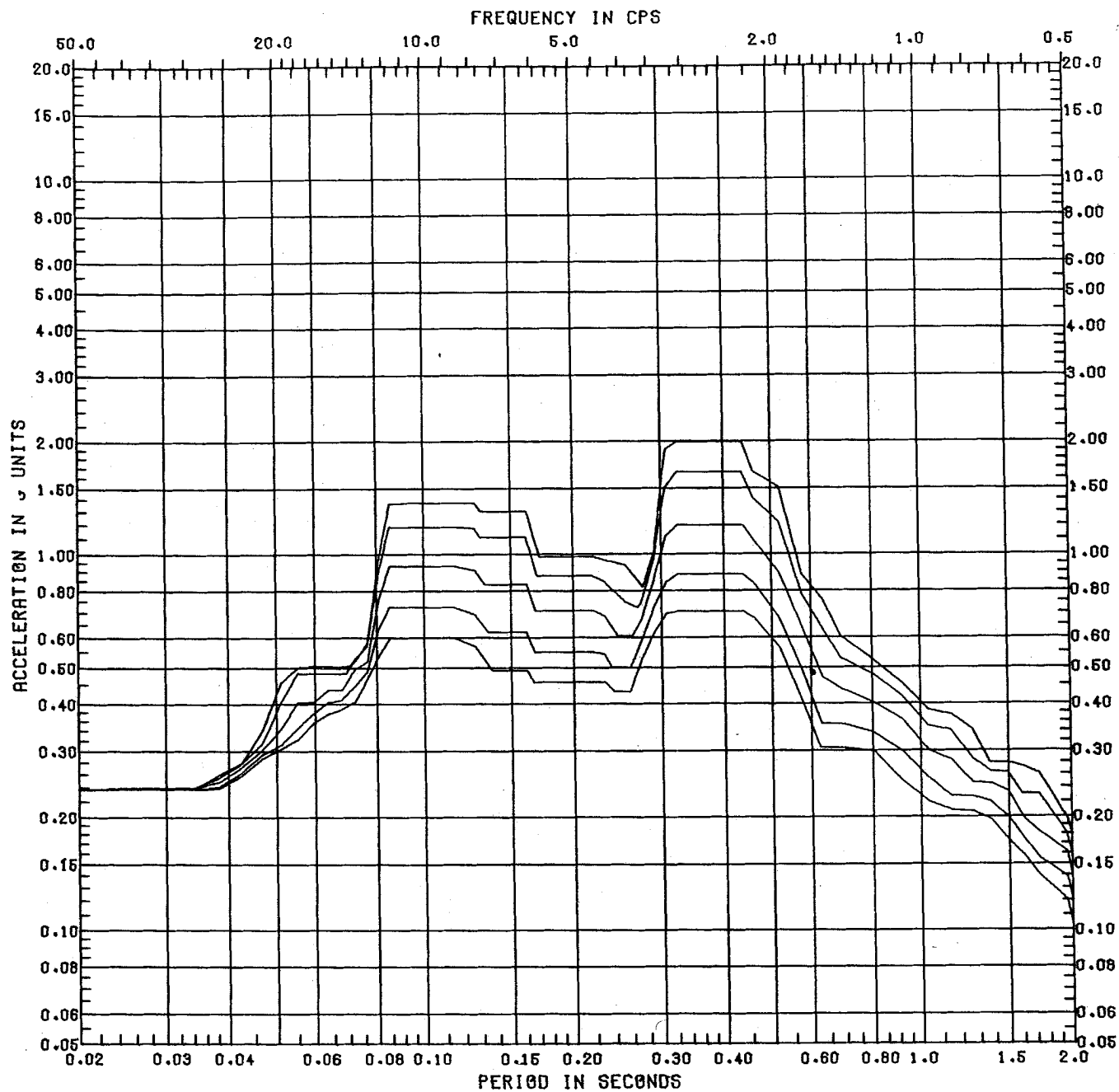
SSE RESPONSE SPECTRA CWSH-
BASE ELEVATION 657'-6"
VERTICAL WALL



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FIGURE 3.7-91

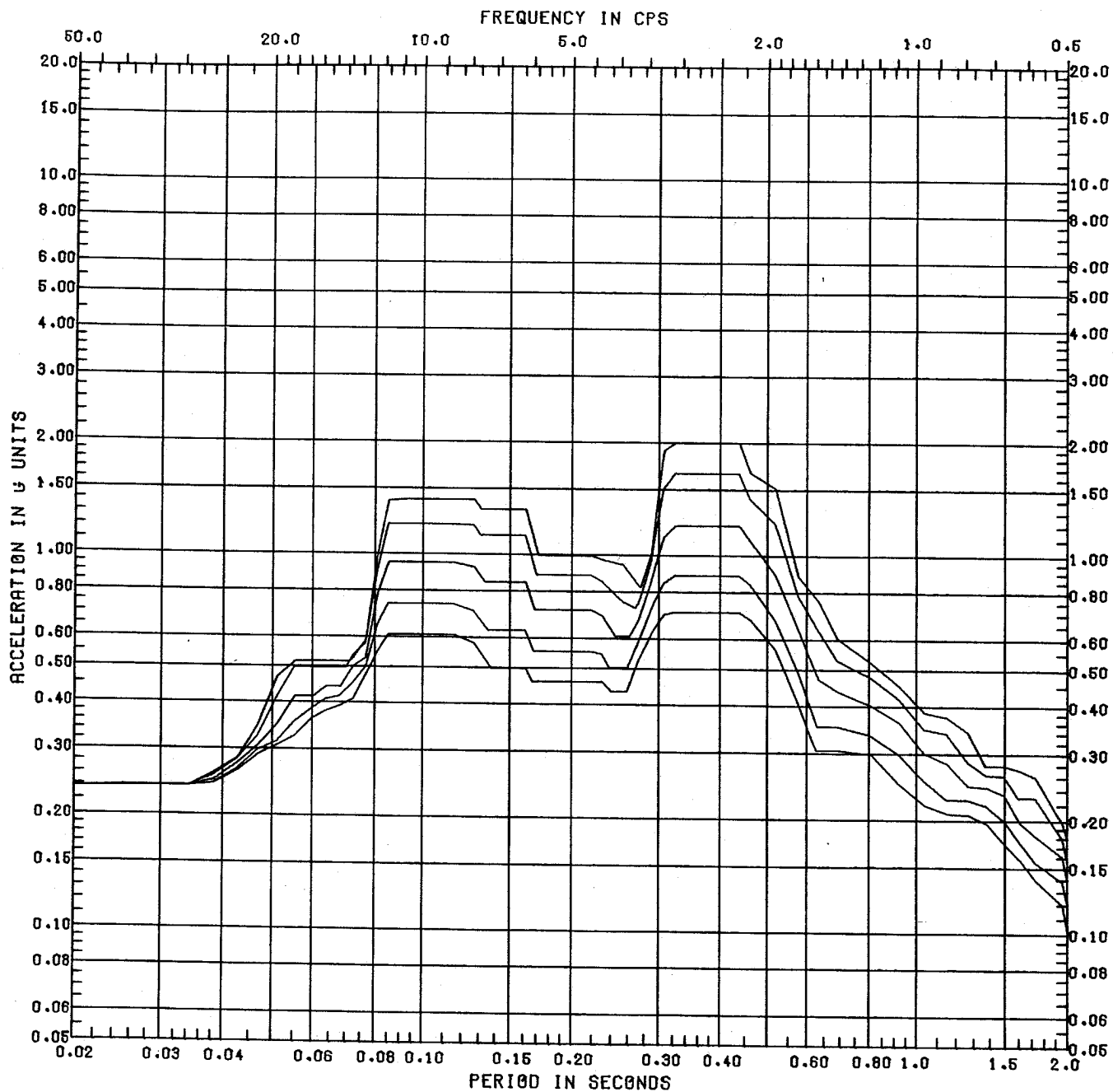
SSE RESPONSE SPECTRA CWSH -
INTERMEDIATE FLOOR
ELEVATION 682'-6"
VERTICAL WALL



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FIGURE 3.7-92

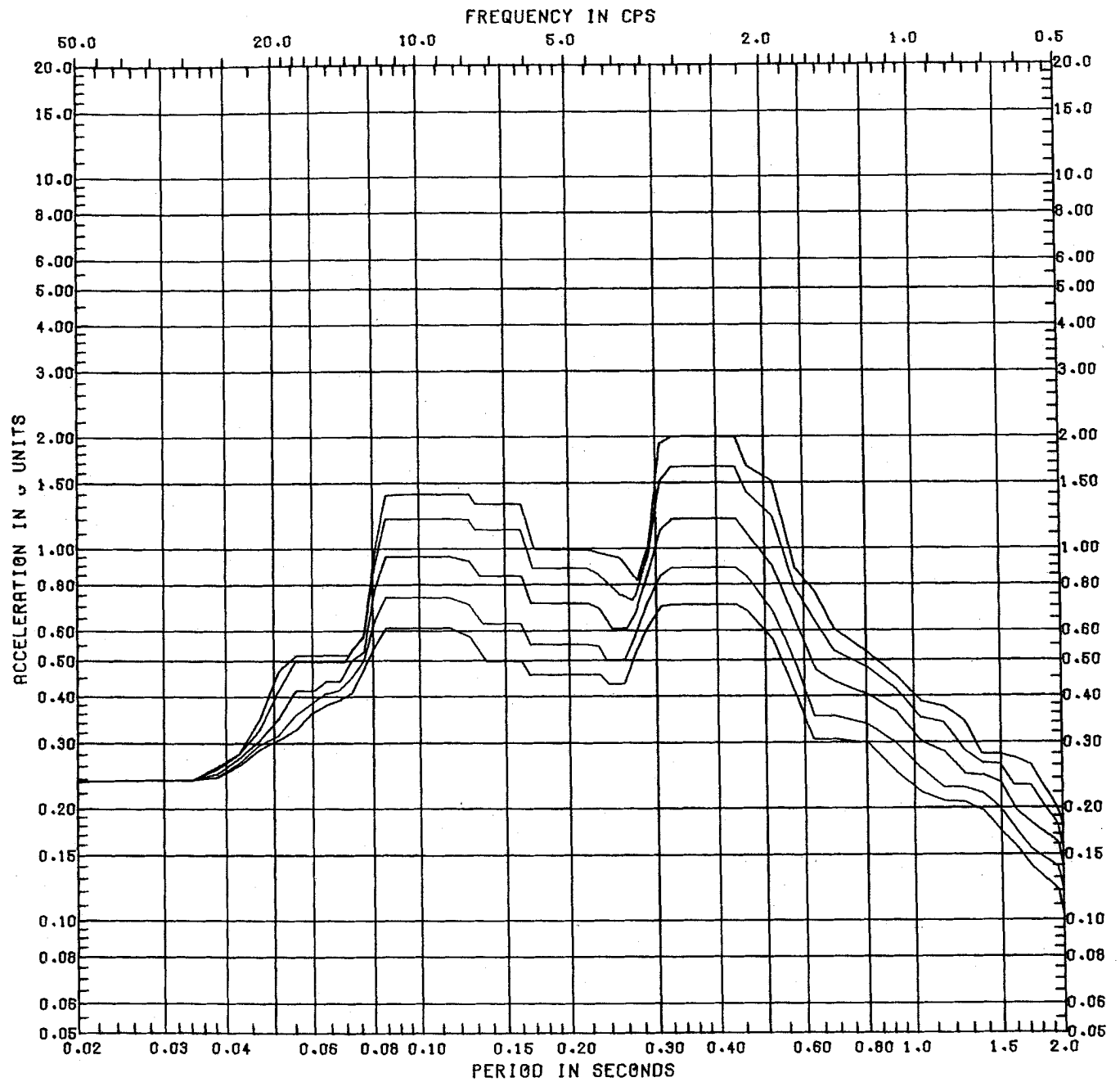
SSE RESPONSE SPECTRA CWSH -
MAIN FLOOR ELEVATION 699'-0"
VERTICAL WALL



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FIGURE 3.7-93

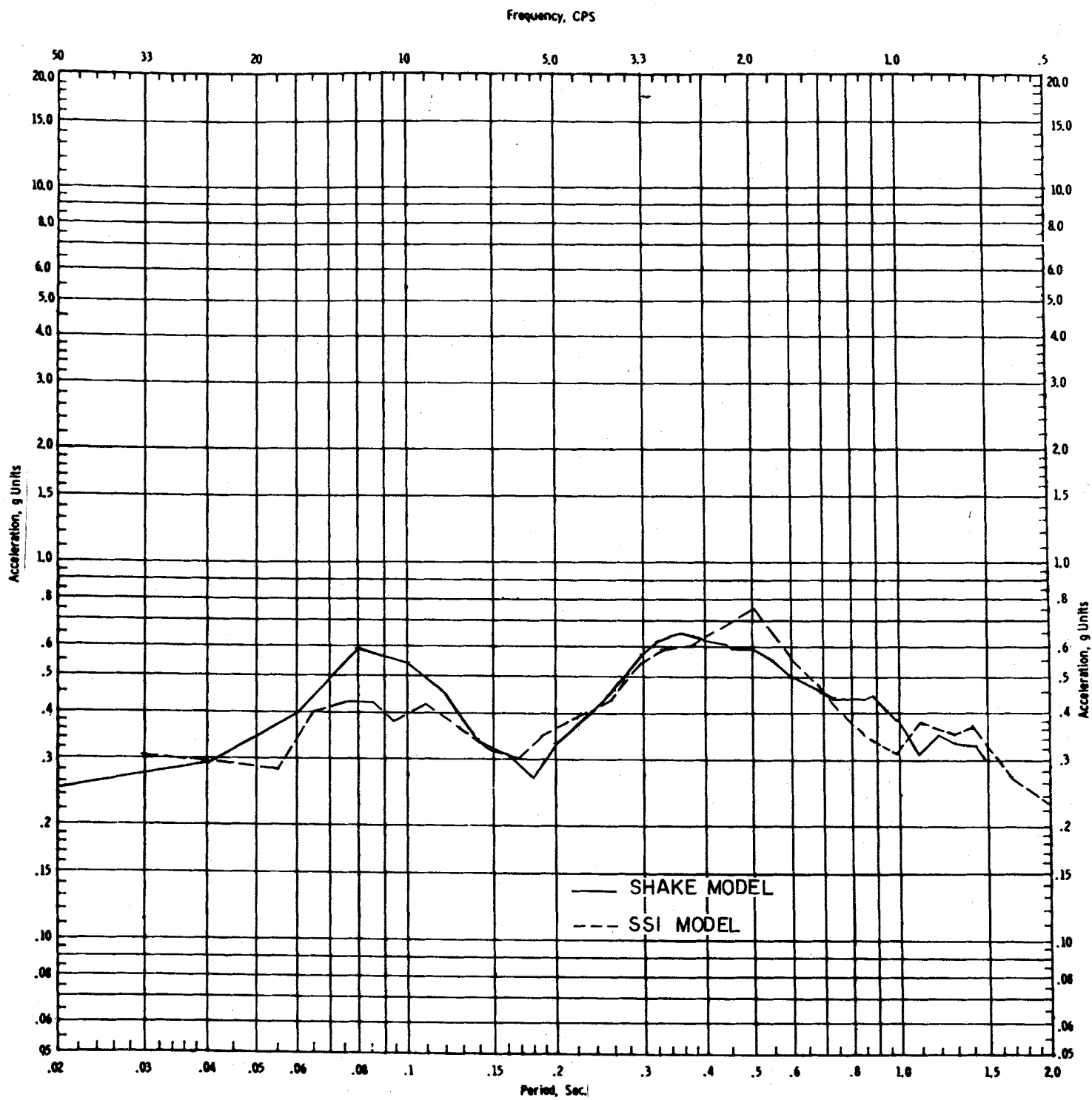
SSE RESPONSE SPECTRA CWSH -
CRANE LEVEL ELEVATION 719'-0"
VERTICAL WALL



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FIGURE 3.7-94

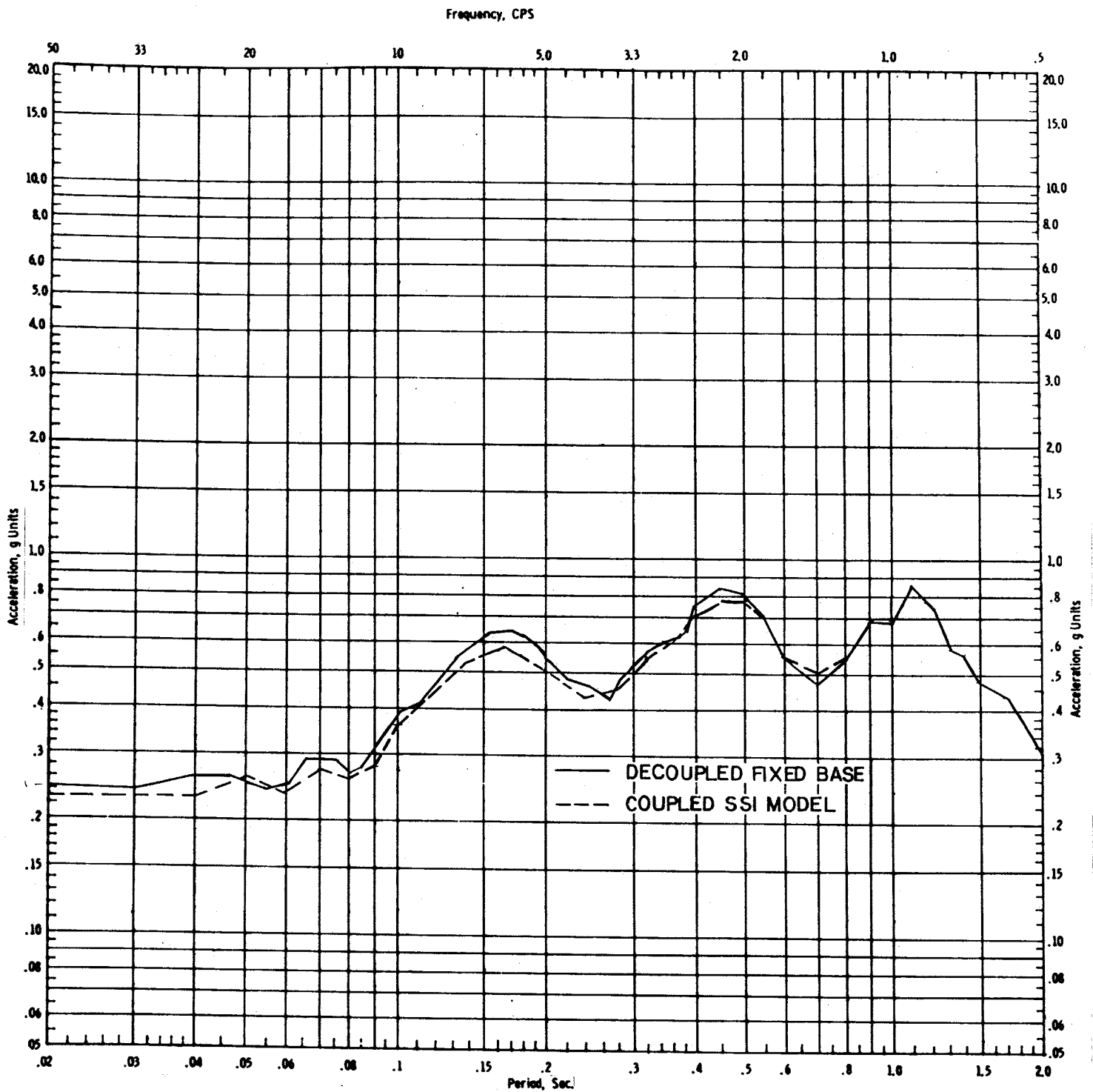
SSE RESPONSE SPECTRA CWSH -
ROOF ELEVATION 730'-0"
VERTICAL WALL



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Figure 3.7-95
(Q&R 220.24)

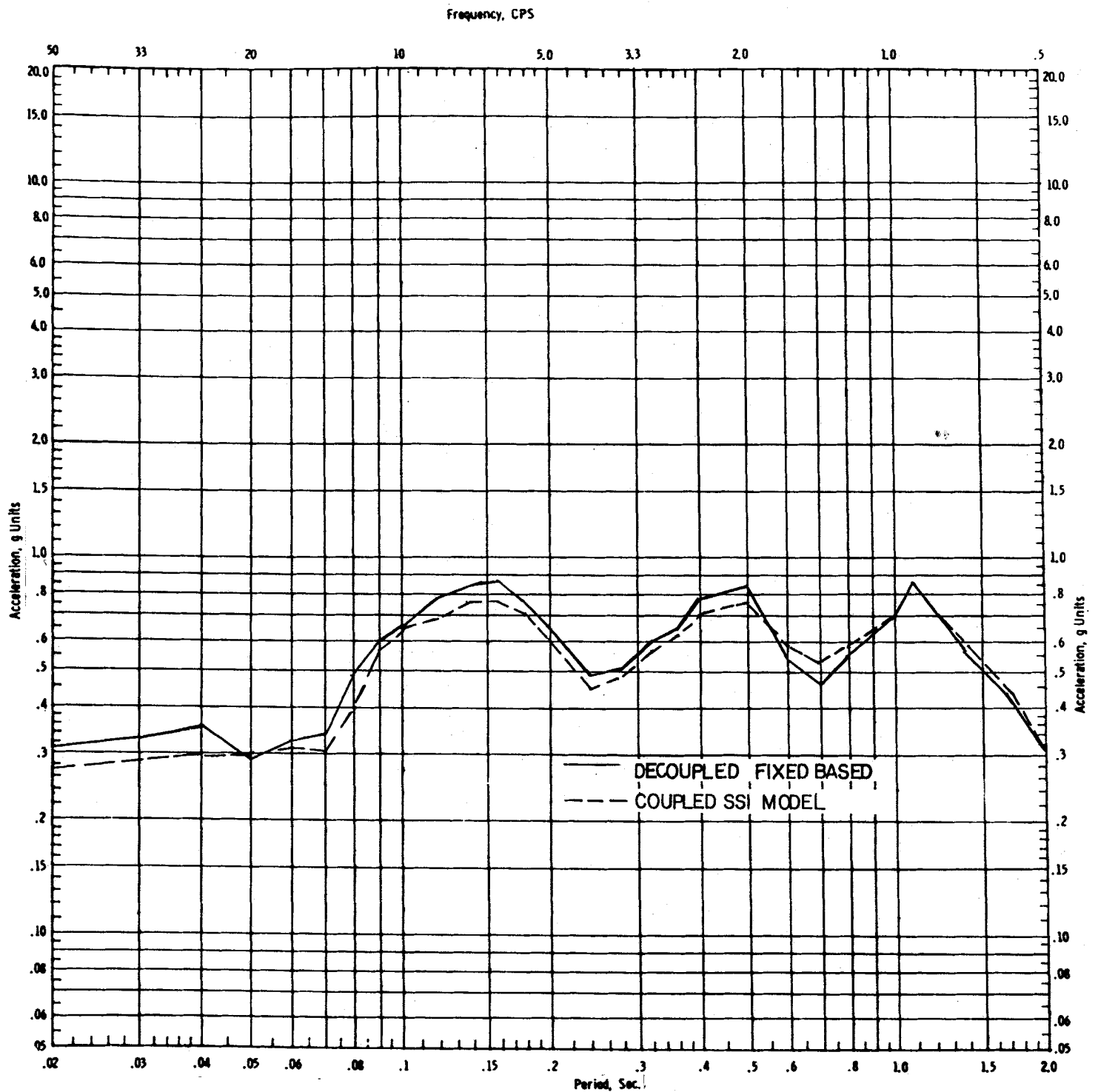
COMPARISON OF FREE FIELD
FOUNDATION LEVEL SPECTRA
FROM THE SHAKE AND SSI ANALYSIS



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Figure 3.7-96
(Q&R 220.25)

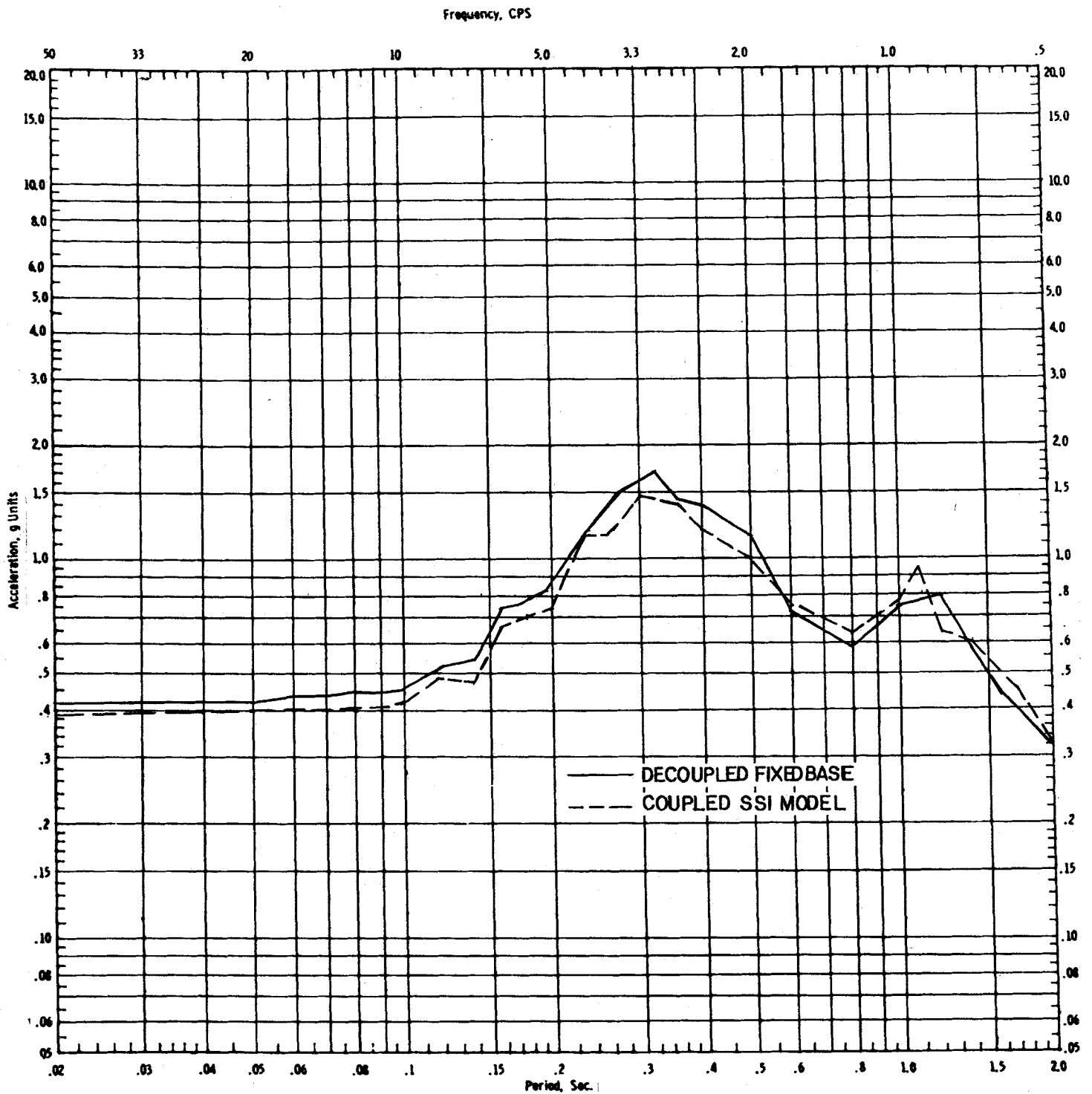
COMPARISON OF DECOUPLED FIXED BASE
AND COUPLED SSI MODEL RESPONSES
AT ELEVATION 781'-0"
(UPPER MEZZANINE FLOOR)



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Figure 3.7-97
(Q&R 220.25)

COMPARISON OF DECOUPLED FIXED BASE
AND COUPLED SSI MODEL RESPONSES
AT ELEVATION 825'-0"
(VENT. FLOOR)



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Figure 3.7-98
(Q&R 220.25)

COMPARISON OF DECOUPLED FIXED BASE
AND COUPLED SSI MODEL RESPONSES
AT ELEVATION 874'-0"
(TURBINE ROOM ROOF)

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2.390

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Figure 3.7-99
(Q&R 220.36)

DETAIL OF PIPE ATTACHMENT

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2.390

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Figure 3.7-100
(Q&R 220.36)

ELECTRICAL MANHOLE
CONNECTION DETAILS

Security - Related Information Figure Withheld Under 10 CFR
2.390

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Figure 3.7-101
(Q&R 220.36)
TYPICAL DUCT DETAIL
AT MANHOLE WALL
(CATEGORY I)

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FIGURE 3.8-1

CONTAINMENT SYSTEM

(SHEET 1 of 2)

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FIGURE 3.8-1
CONTAINMENT SYSTEM
(SHEET 2 of 2)

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FIGURE 3.8-2

CONTAINMENT FRAMING PLAN

(SHEET 1 of 6)

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FIGURE 3.8-2

CONTAINMENT FRAMING PLAN

(SHEET 2 of 6)

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FIGURE 3.8-2

CONTAINMENT FRAMING PLAN

(SHEET 3 of 6)

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FIGURE 3.8-2

CONTAINMENT FRAMING PLAN

(SHEET 4 of 6)

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**CLINTON POWER STATION
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FIGURE 3.8-2

CONTAINMENT FRAMING PLAN

(SHEET 5 of 6)

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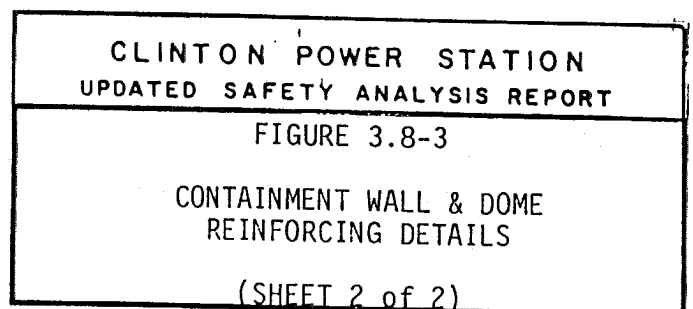
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FIGURE 3.8-2
CONTAINMENT FRAMING PLAN
(SHEET 6 of 6)

Security - Related Information Figure Withheld Under 10 CFR 2.390

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FIGURE 3.8-3 CONTAINMENT WALL & DOME REINFORCING DETAILS (SHEET 1 of 2)

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2.390



Security - Related Information Figure Withheld Under 10 CFR 2.390

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FIGURE 3.8-4

PERSONNEL AND EQUIPMENT HATCH
REINFORCING DETAILS (CONTAINMENT)

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FIGURE 3.8-5
BASE MAT TOP REINFORCING PLAN CONTAINMENT AND FUEL BUILDING

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<p>CLINTON POWER STATION UPDATED SAFETY ANALYSIS REPORT</p>
<p>FIGURE 3.8-6</p> <p>BASE MAT TOP REINFORCING PLAN CONTAINMENT AND AUXILIARY BUILDING</p>

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FIGURE 3.8-7

BASE MAT BOTTOM REINFORCING PLAN
CONTAINMENT AND FUEL BUILDING

Security - Related Information Figure Withheld Under 10 CFR 2.390

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FIGURE 3.8-8

BASE MAT BOTTOM REINFORCING PLAN
CONTAINMENT AND AUXILIARY BUILDING

Security - Related Information Figure Withheld Under 10 CFR 2.390

Security - Related Information Figure Withheld Under 10 CFR 2.390

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FIGURE 3.8-10

CONTAINMENT DEVELOPED ELEVATION

(SHEET 1 of 4)

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FIGURE 3.8-10 CONTAINMENT DEVELOPED ELEVATION (SHEET 2 of 4)

Security - Related Information Figure Withheld Under 10 CFR 2.390

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
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FIGURE 3.8-10

CONTAINMENT DEVELOPED ELEVATION

(SHEET 4 of 4)

Security - Related Information Figure Withheld Under 10 CFR 2.390

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FIGURE 3.8-11

CONTAINMENT BUILDING PENETRATIONS

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October 2001

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2.390

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FIGURE 3.8-12

ELECTRICAL PENETRATIONS

Security - Related Information Figure Withheld Under 10 CFR 2.390

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
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FIGURE 3.8-13

PERSONNEL AND EQUIPMENT HATCH
DETAILS
(SHEET 2 of 2)

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FIGURE 3.8-14
CONTAINMENT LINER DETAILS
(SHEET 1 of 2)

Security - Related Information Figure Withheld Under 10 CFR 2.390

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FIGURE 3.8-14
CONTAINMENT LINER DETAILS

(SHEET 2 of 2)

Security - Related Information Figure Withheld Under 10 CFR 2.390

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FIGURE 3.8-15

DOME LINER

Security - Related Information Figure Withheld Under 10 CFR 2.390

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FIGURE 3.8-16 CRANE GIRDER BRACKET EMBEDMENT DETAIL

Security - Related Information Figure Withheld Under 10 CFR 2.390

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FIGURE 3.8-17

FORCE PLOTS - CONTAINMENT WALL

(SHEET 1 of 4)

Security - Related Information Figure Withheld Under 10 CFR 2.390

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FIGURE 3.8-17

FORCE PLOTS - CONTAINMENT WALL

(SHEET 2 of 4)

Security - Related Information Figure Withheld Under 10 CFR 2.390

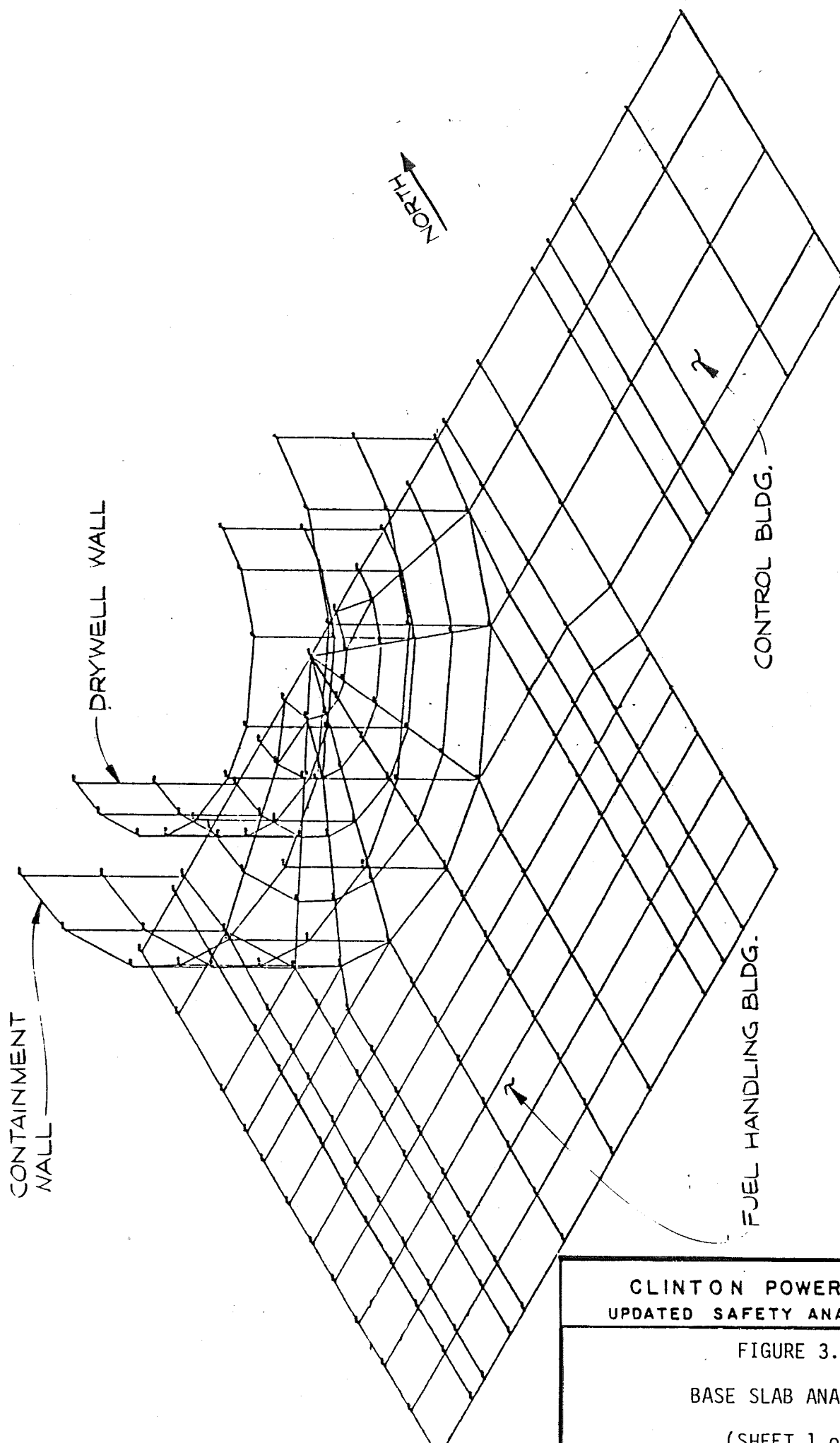
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FIGURE 3.8-17

FORCE PLOTS - CONTAINMENT WALL

(SHEET 3 of 4)

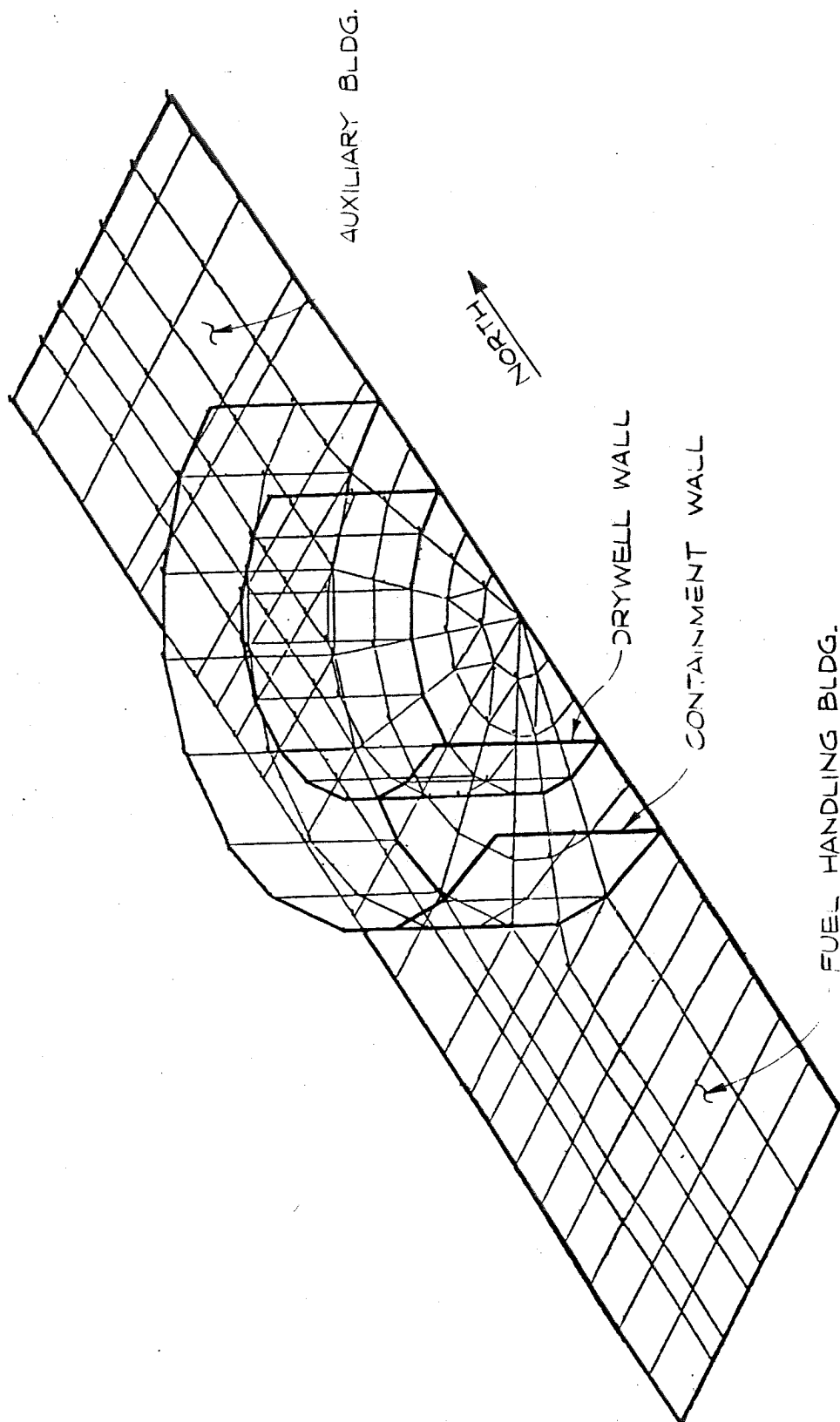
Security - Related Information Figure Withheld Under 10 CFR 2.390



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.8-18
BASE SLAB ANALYTICAL

(SHEET 1 of 2)

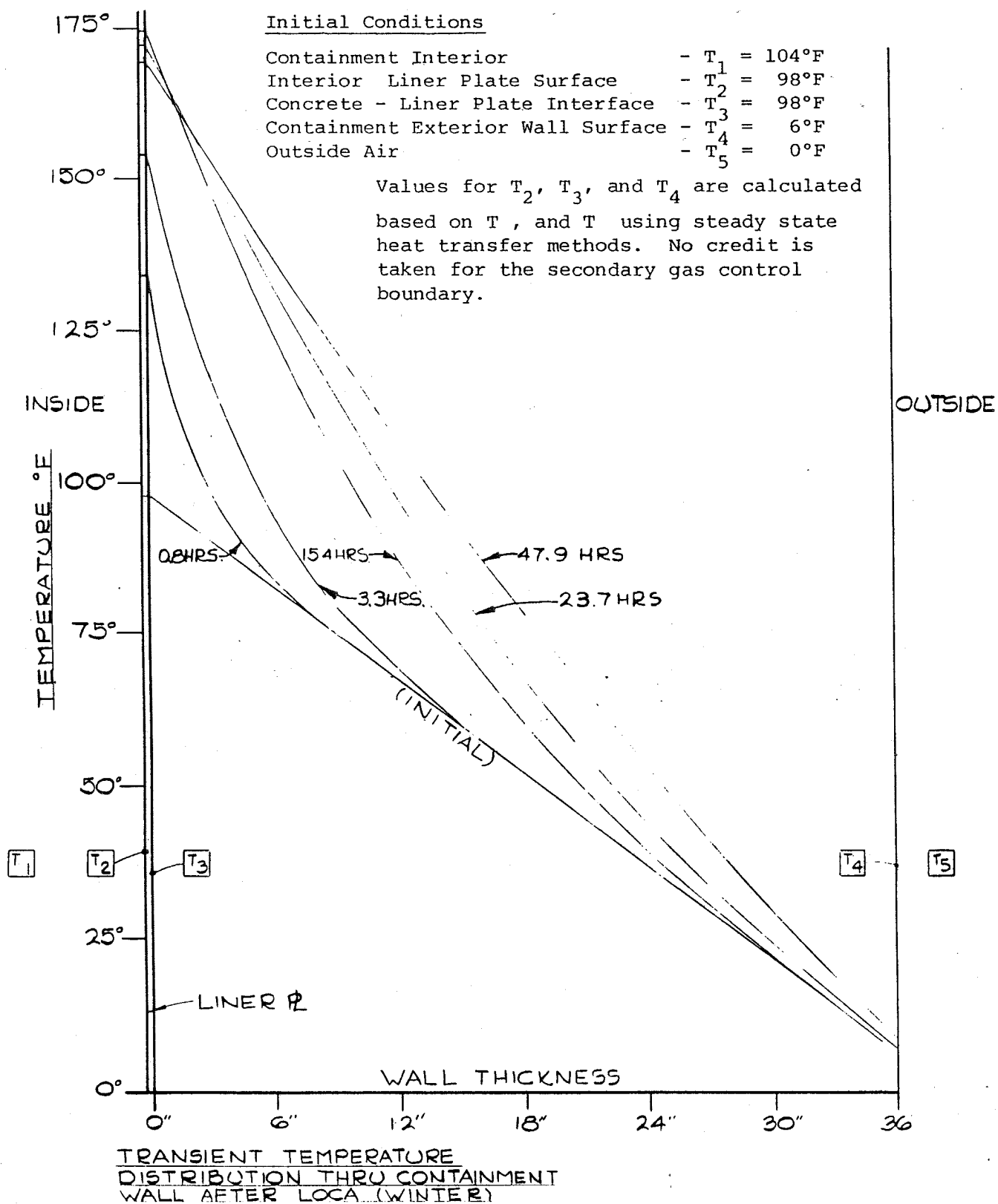


CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.8-18

BASE SLAB ANALYTICAL

(SHEET 2 of 2)

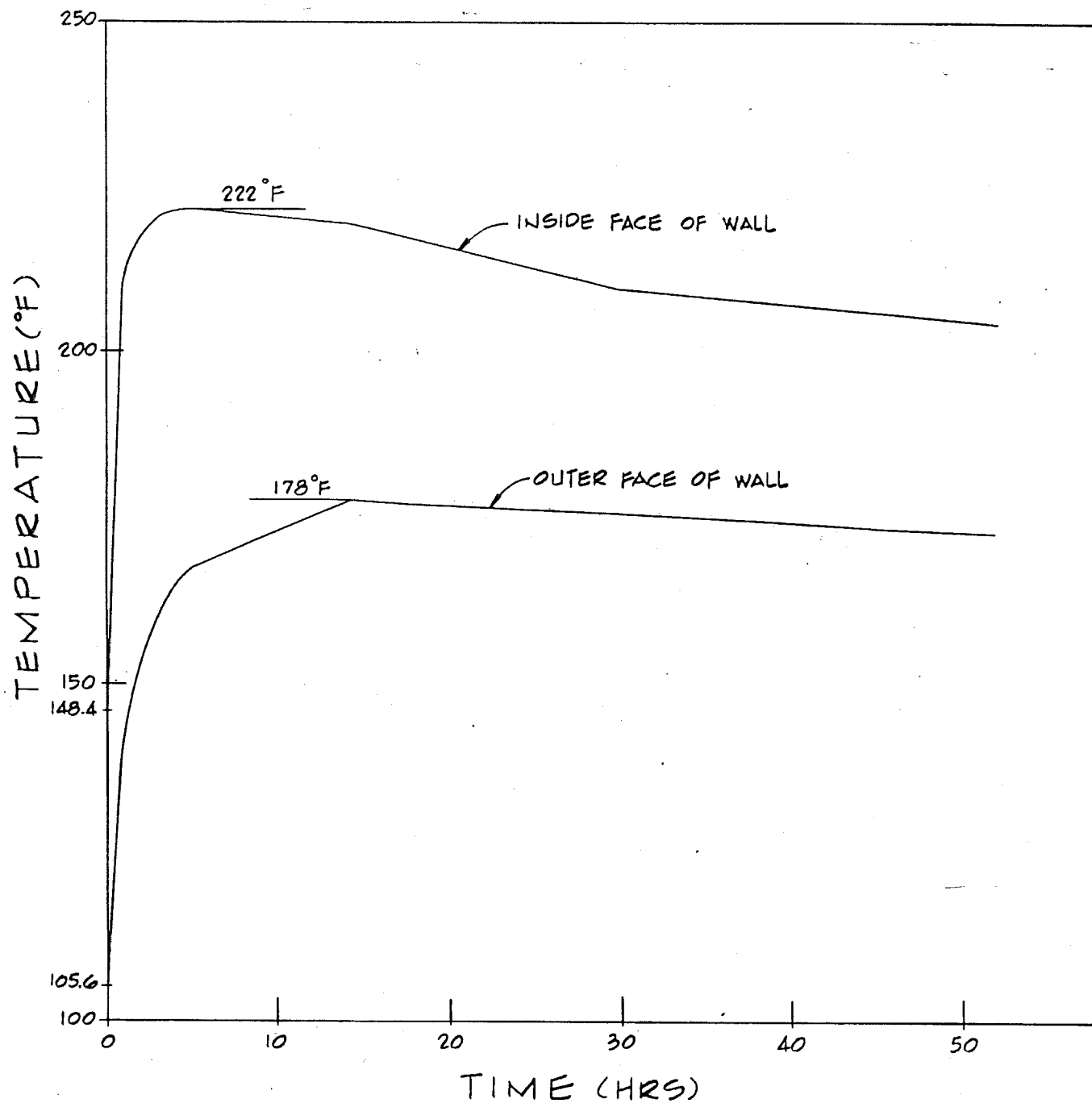


CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.8-19

THERMAL GRADIENTS

(SHEET 1 of 3)

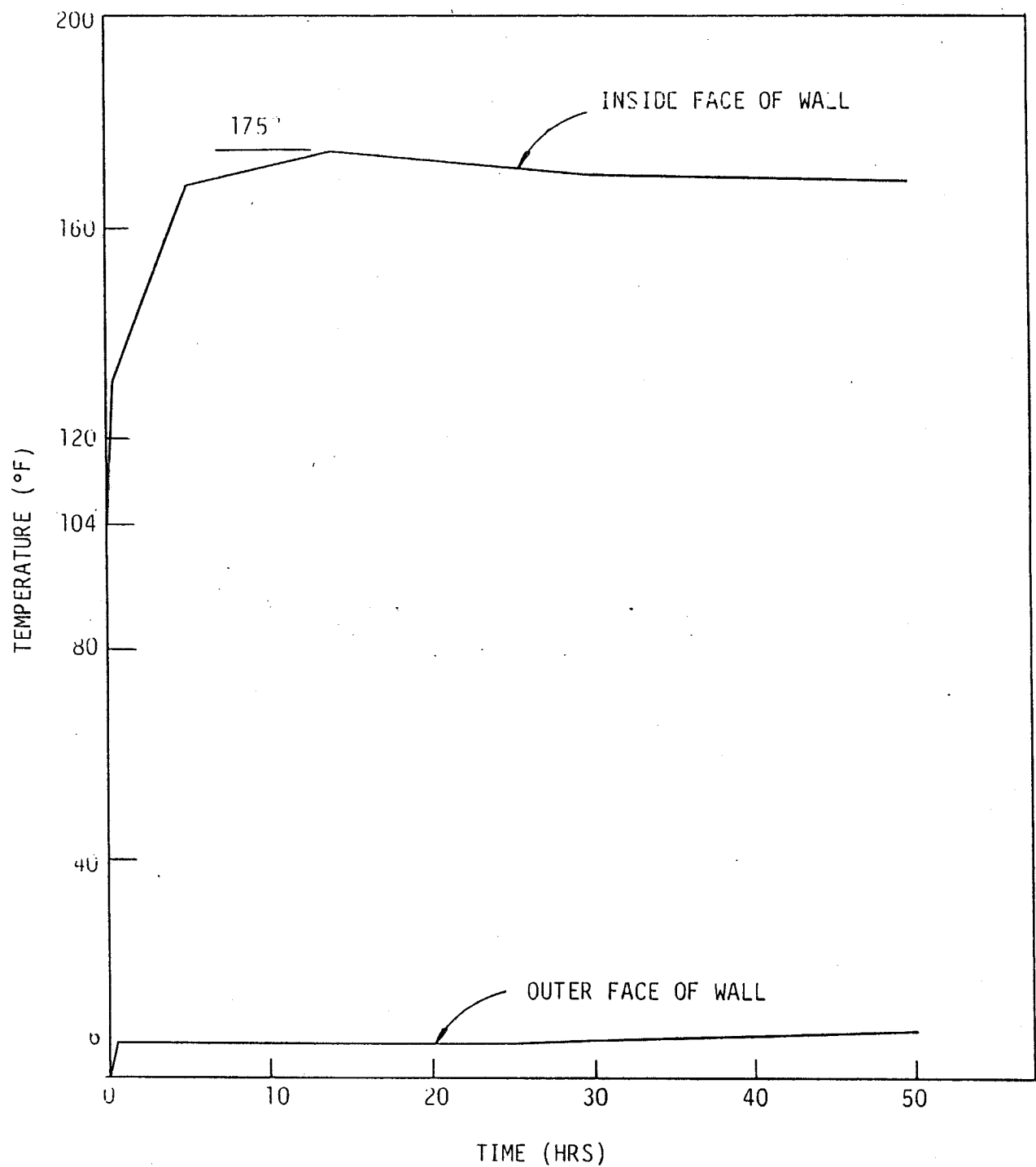


CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.8-19

THERMAL GRADIENTS

(SHEET 2 of 3)

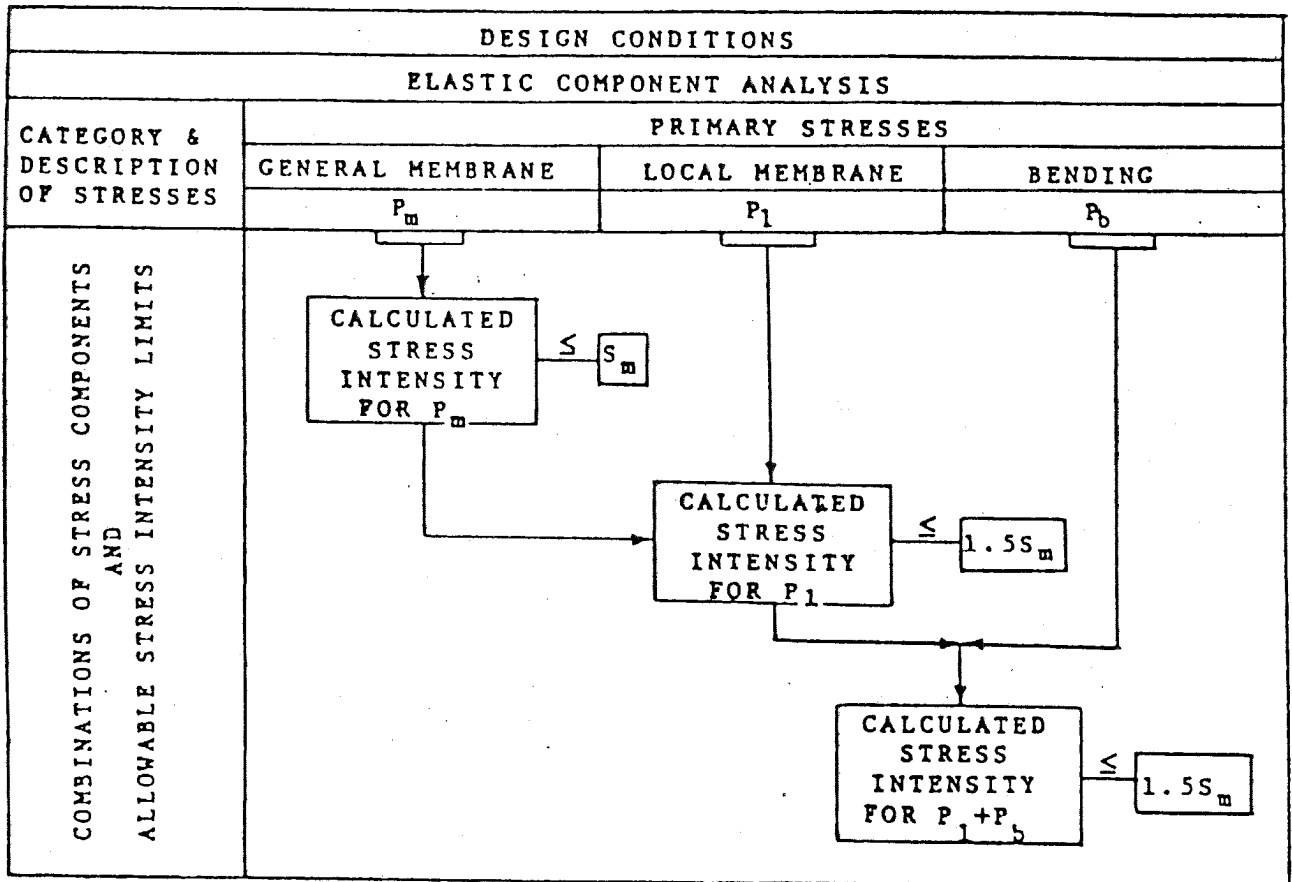


CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.8-19

THERMAL GRADIENTS

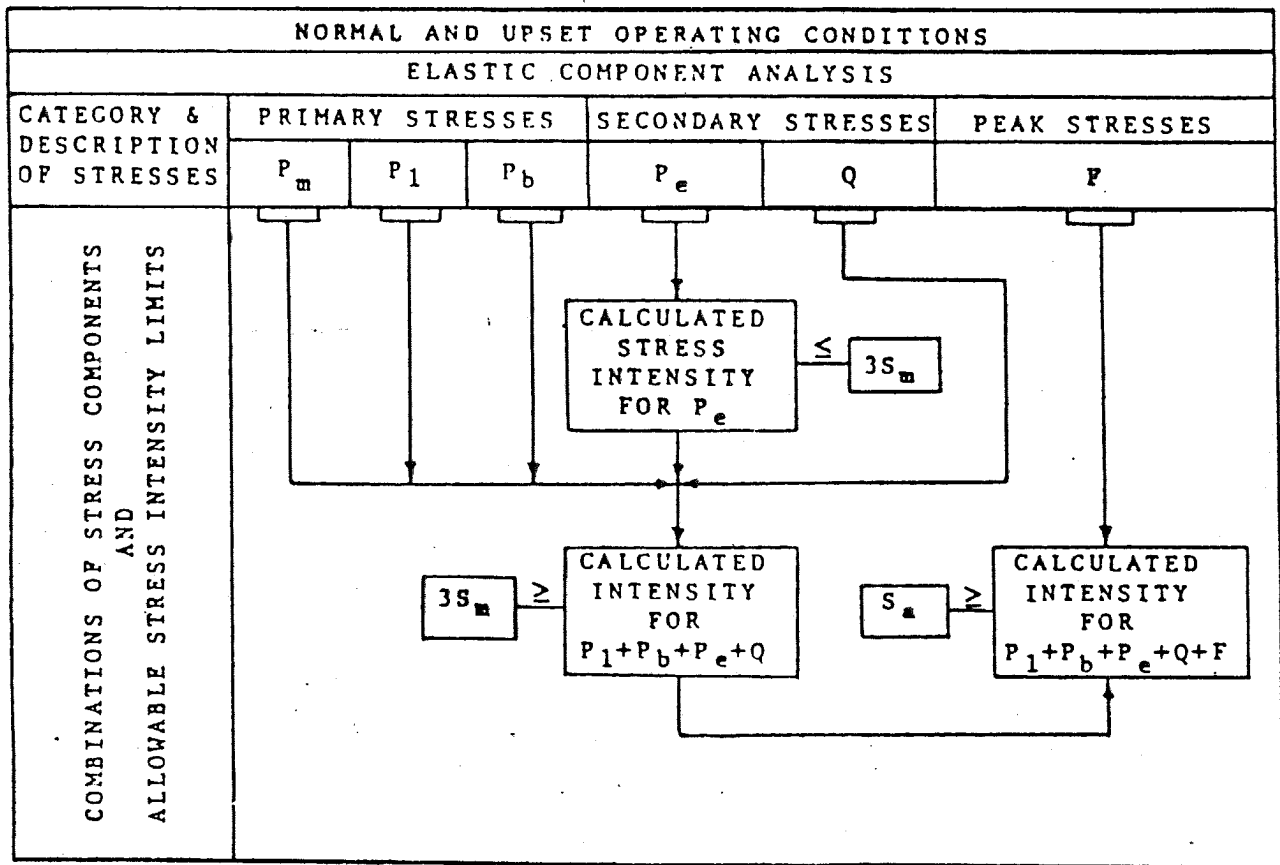
(SHEET 3 of 3)



CLINTON POWER STATION
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FIGURE 3.8-20

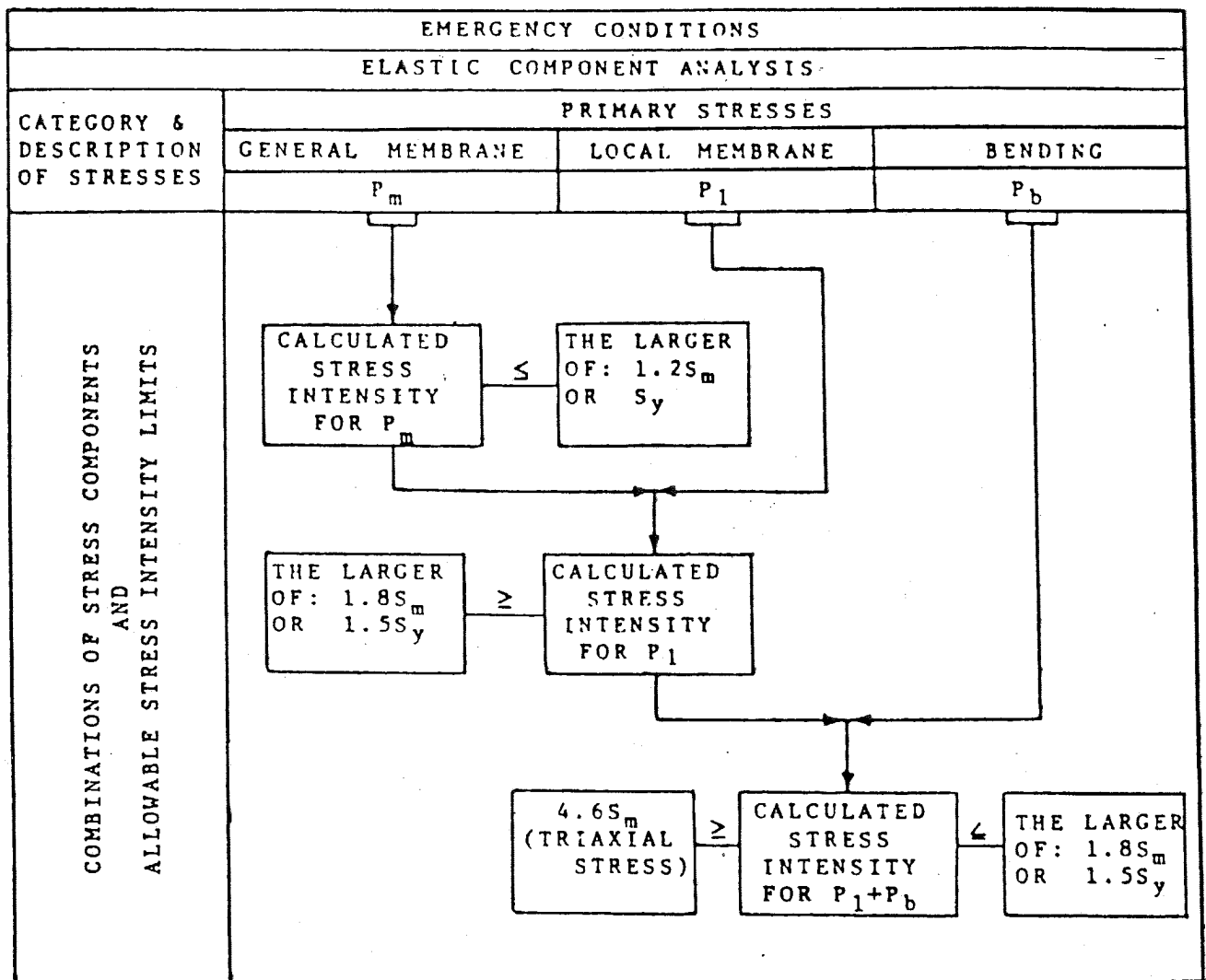
STRESS CATEGORIES AND STRESS INTENSITY
 LIMITS FOR DESIGN CONDITIONS



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.8-21

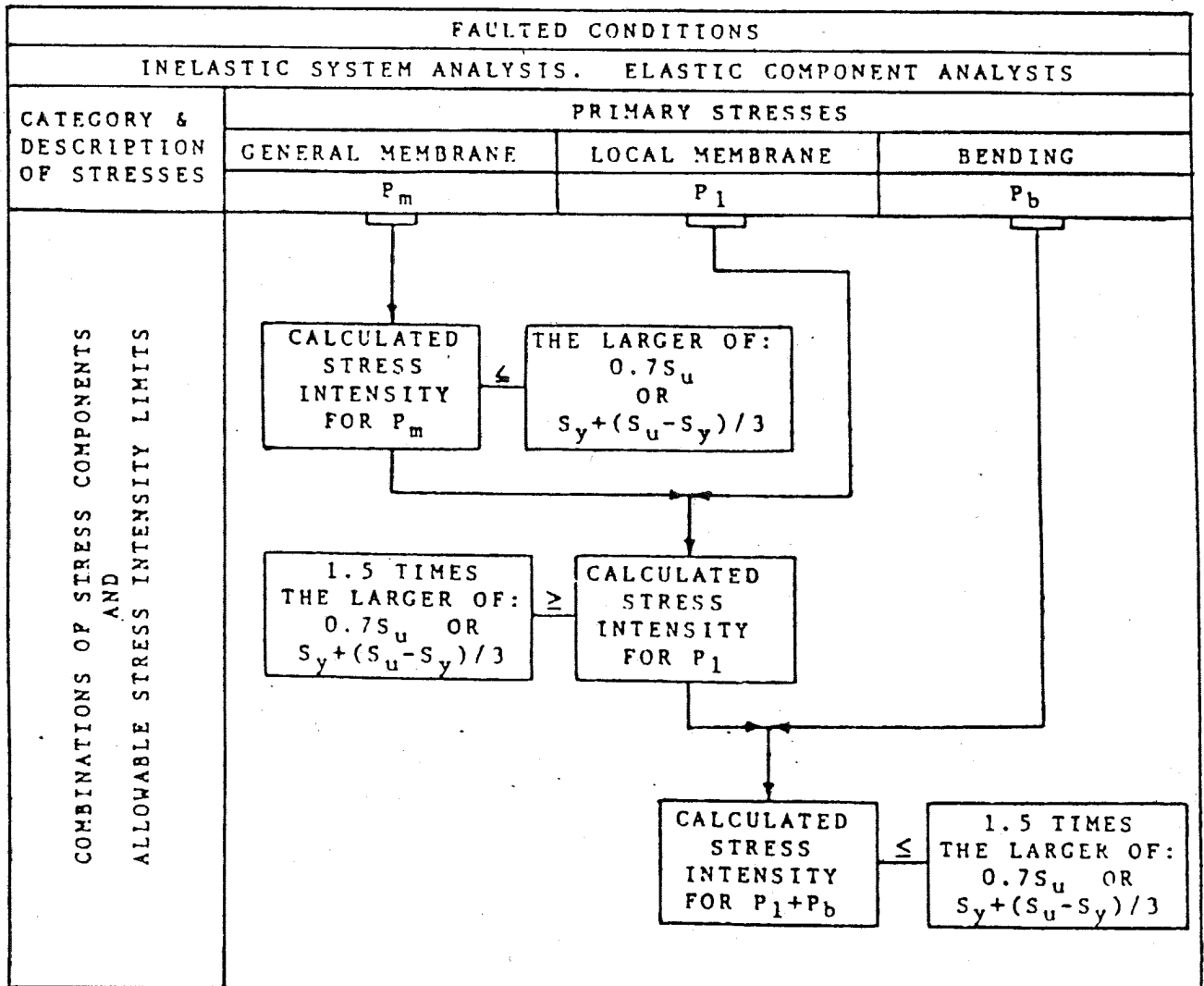
STRESS CATEGORIES AND STRESS INTENSITY
LIMITS FOR NORMAL AND UPSET CONDITIONS



CLINTON POWER STATION
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FIGURE 3.8-22

STRESS CATEGORIES AND STRESS INTENSITY
LIMITS FOR EMERGENCY CONDITIONS



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FIGURE 3.8-23

STRESS CATEGORIES AND STRESS INTENSITY
LIMITS FOR FAULTED CONDITIONS

Figure 3.8-24
Deleted

Security - Related Information Figure Withheld Under 10 CFR 2.390

Security - Related Information Figure Withheld Under 10 CFR 2.390

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FIGURE 3.8-25 REACTOR SHIELD WALL (SHEET 2 of 2)

Security - Related Information Figure Withheld Under 10 CFR 2.390

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FIGURE 3.8-26

REACTOR PEDESTAL DETAILS

(SHEET 1 of 2)

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FIGURE 3.8-26

REACTOR PEDESTAL DETAILS

(SHEET 2 of 2)

Security - Related Information Figure Withheld Under 10 CFR 2.390

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FIGURE 3.8-27 DRYWELL REINFORCING DETAILS

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FIGURE 3.8-28 PERSONNEL & EQUIPMENT HATCHES REINFORCING DETAILS - DRYWELL WALL

Security - Related Information Figure Withheld Under 10 CFR 2.390

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FIGURE 3.8-29

MAIN STEAMLINE REINFORCING -
DRYWELL WALL

Security - Related Information Figure Withheld Under 10 CFR 2.390

Security - Related Information Figure Withheld Under 10 CFR 2.390

Security - Related Information Figure Withheld Under 10 CFR 2.390

Security - Related Information Figure Withheld Under 10 CFR 2.390

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FIGURE 3.8-31
DETAILS OF THE DRYWELL HEAD AND
CONTAINMENT POOL COMPLEX

(SHEET 2 OF 2)

Security - Related Information Figure Withheld Under 10 CFR 2.390

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FIGURE 3.8-32

REACTOR PEDESTAL DEVELOPED

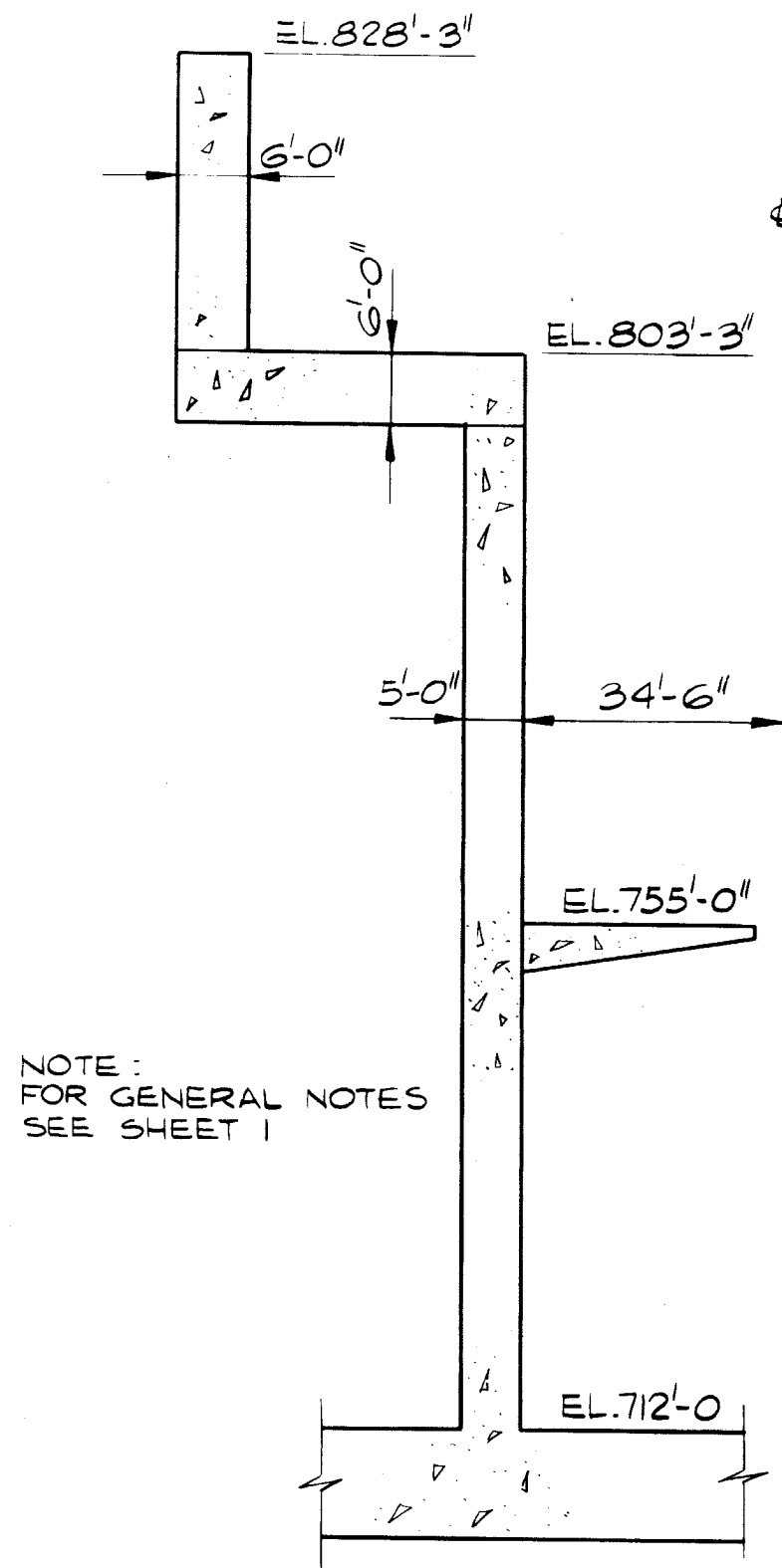
Security - Related Information Figure Withheld Under 10 CFR 2.390

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FIGURE 3.8-33

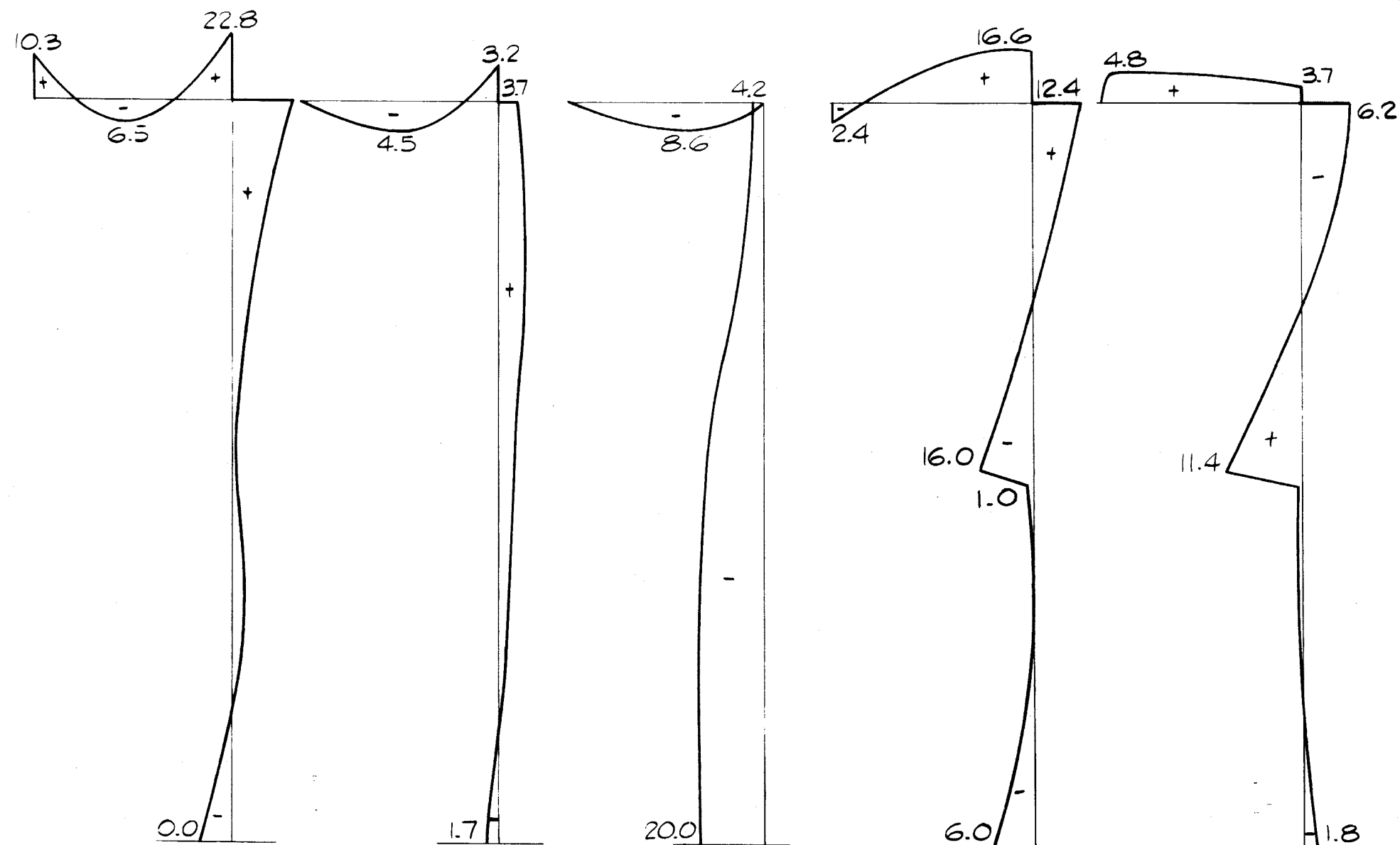
FORCE & MOMENT PLOTS - DRYWELL

(SHEET 1 of 4)



NOTE:
FOR GENERAL NOTES
SEE SHEET 1

CONTAINMENT



MERIDIONAL
MOMENT

HOOP
MOMENT

MERIDIONAL
FORCE

HOOP
FORCE

RADIAL
SHEAR

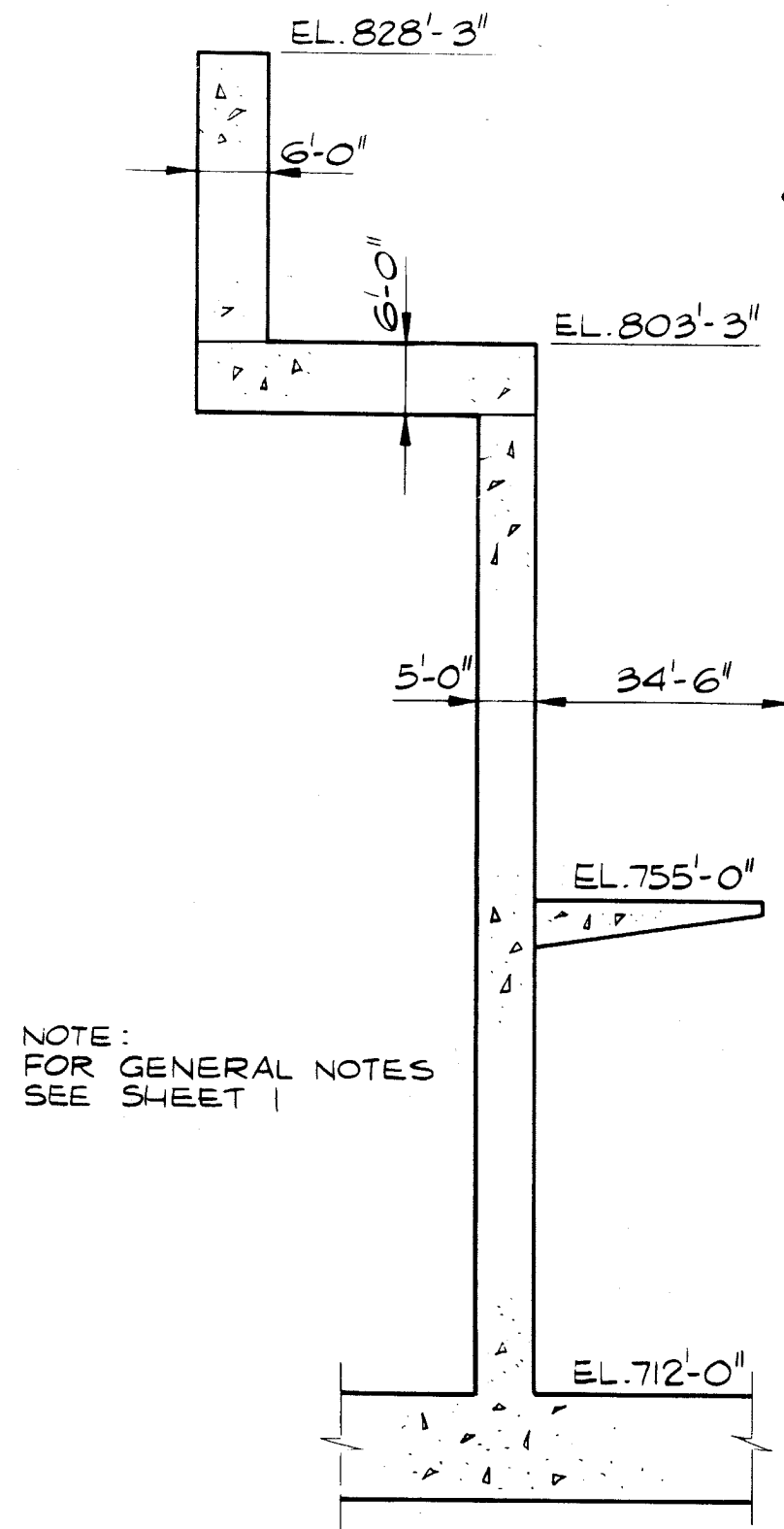
POOL WATER LOADING (H)
AZIMUTH 90°

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.8-33

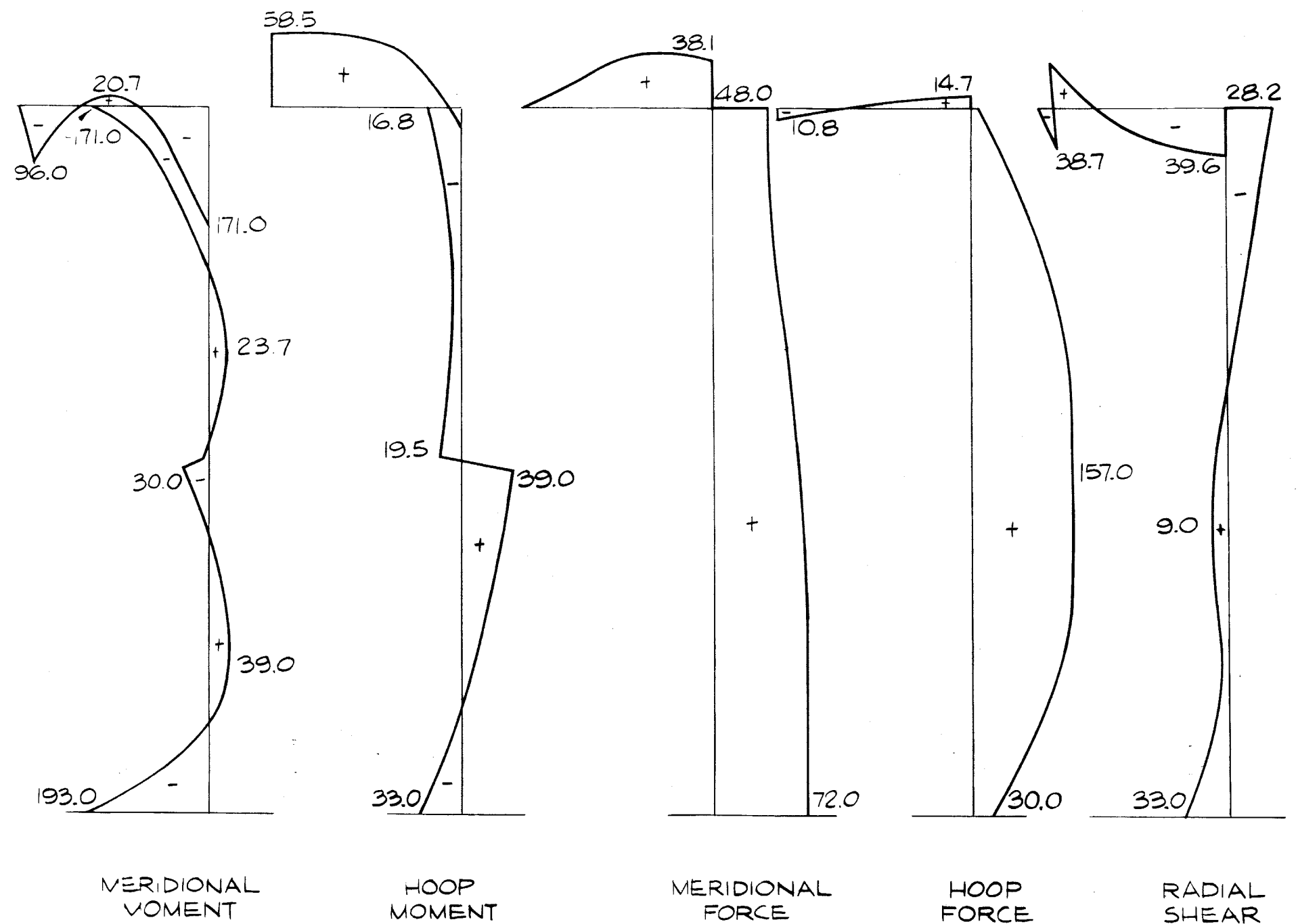
FORCE & MOMENT PLOTS - DRYWELL

(SHEET 2 of 4)



NOTE:
FOR GENERAL NOTES
SEE SHEET 1

CONTAINMENT



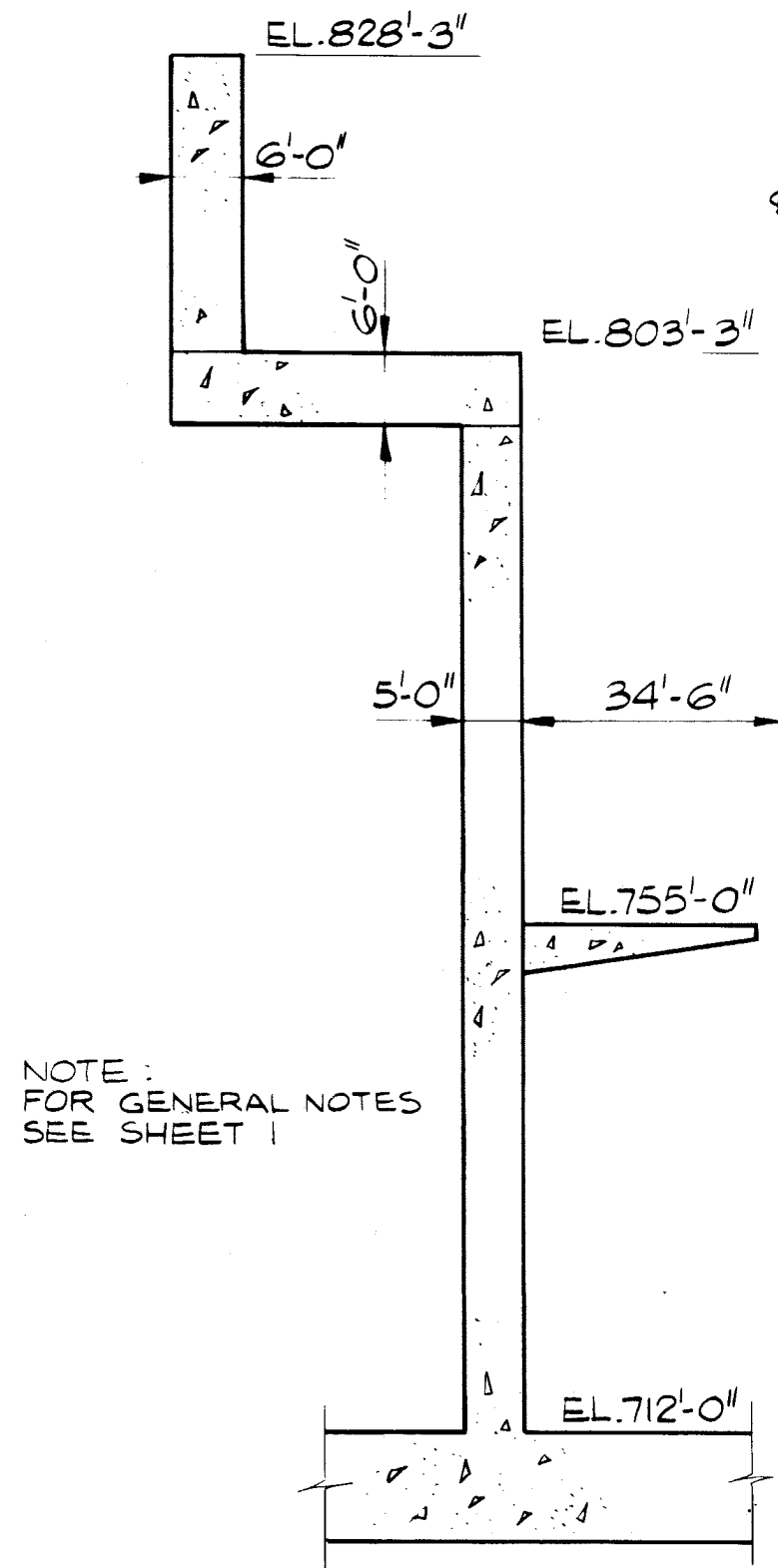
ACCIDENT PRESSURE (P_a) LOADING
AZIMUTH 90°

CLINTON POWER STATION
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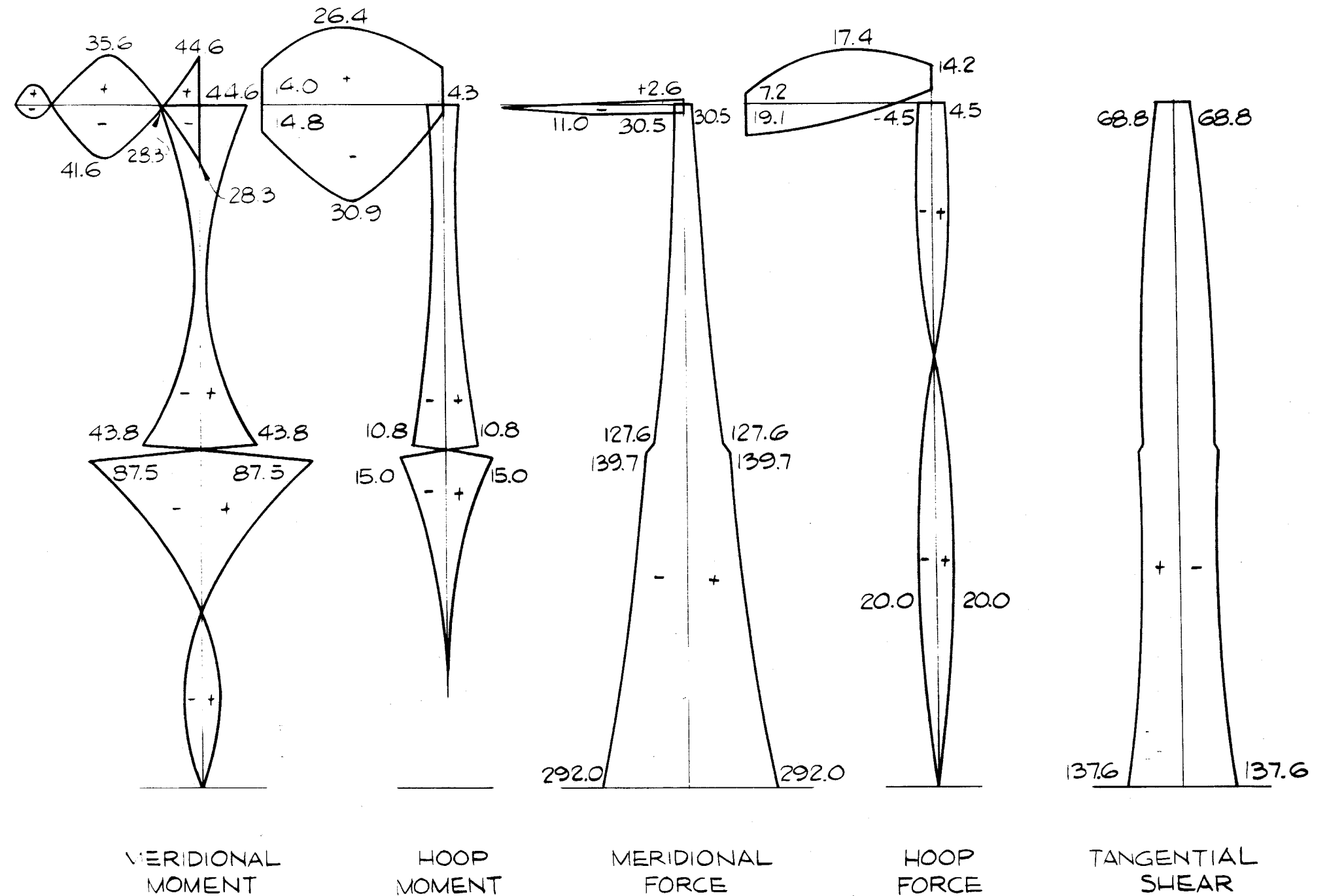
FIGURE 3.8-33

FORCE & MOMENT PLOTS - DRYWELL

(SHEET 3 of 4)



CONTAINMENT



SAFE SHUTDOWN EARTHQUAKE LOADING (E')

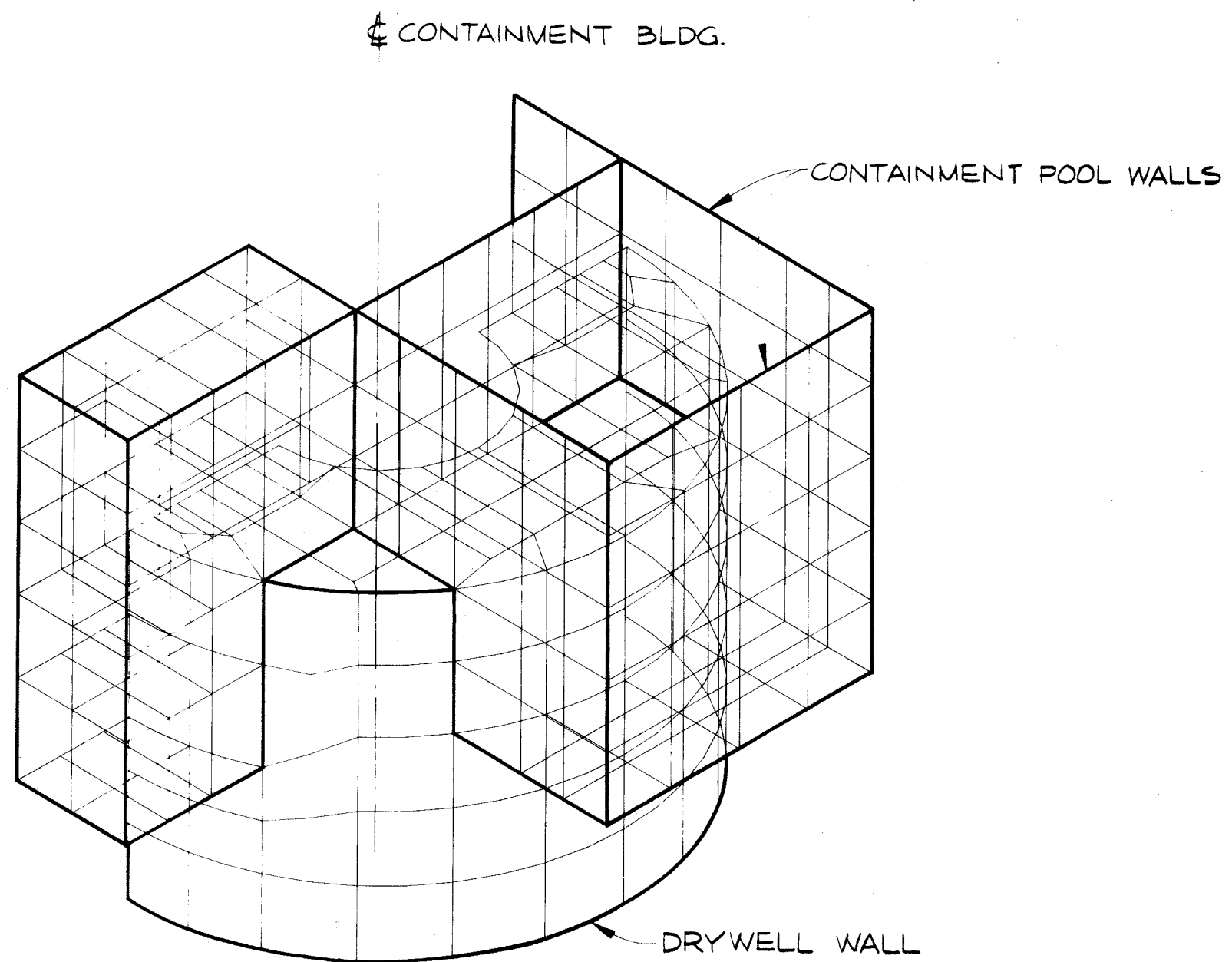
AZIMUTH 90°

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.8-33

FORCE & MOMENT PLOTS - DRYWELL

(SHEET 4 of 4)



CLINTON POWER STATION
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FIGURE 3.8-34

ANALYTICAL MODEL OF UPPER PORTION OF
 DRYWELL STRUCTURE

CPS/USAR

**FIGURE 3.8-35
HAS BEEN DELETED**

Security - Related Information Figure Withheld Under 10 CFR 2.390

Security - Related Information Figure Withheld Under 10 CFR 2.390

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FIGURE 3.8-37
TYPICAL REINFORCING DETAILS
(SHEET 1 of 4)

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.8-37
TYPICAL REINFORCING DETAILS
(SHEET 2 of 4)

Security - Related Information Figure Withheld Under 10 CFR 2.390

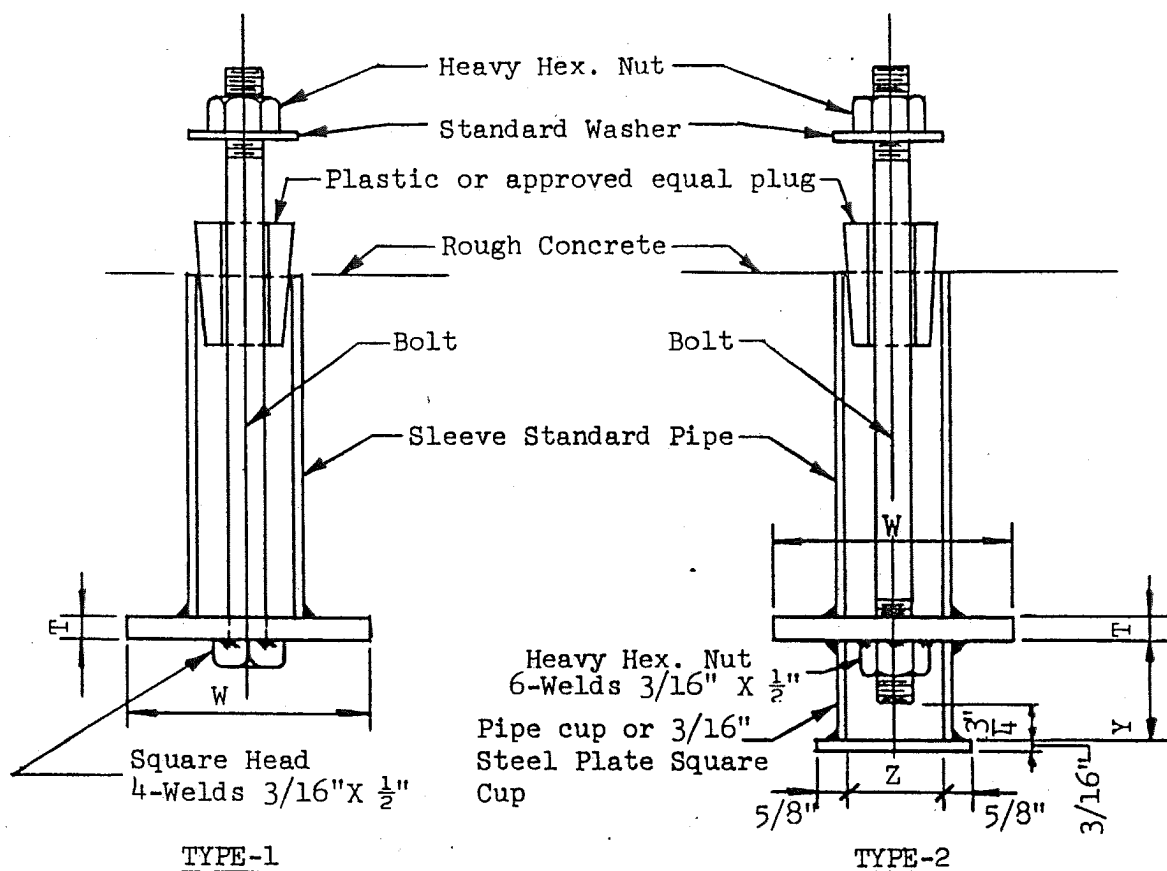
CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.8-37
TYPICAL REINFORCING DETAILS
(SHEET 3 of 4)

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.8-37
TYPICAL REINFORCING DETAILS
(SHEET 4 of 4)



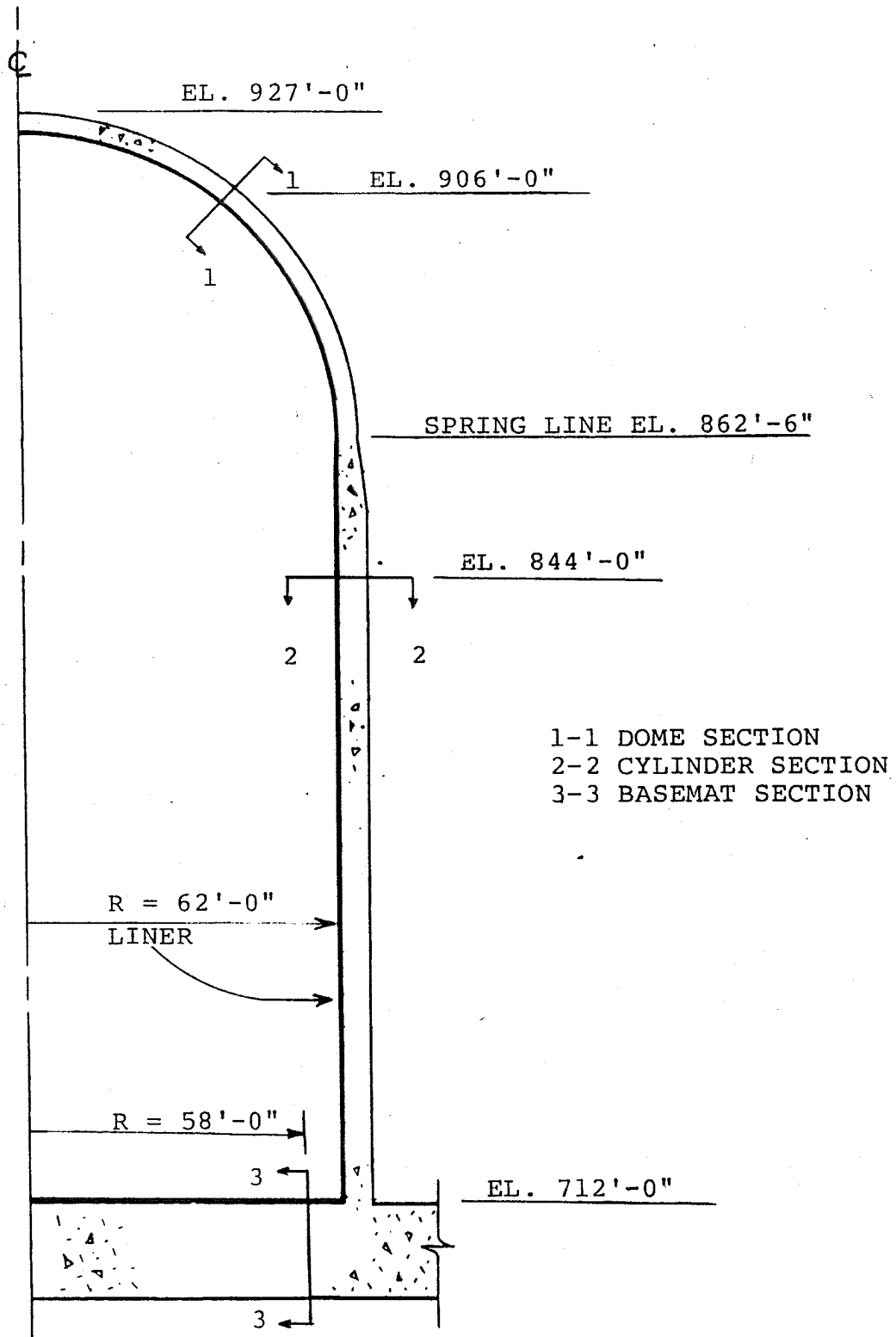
TYPE 1 AND 2 BOLTS													
BOLT DIAM.		5/8"	3/4"	7/8"	1"	1 $\frac{1}{4}$ "	1 $\frac{1}{2}$ "	1 $\frac{3}{4}$ "	2"	2 $\frac{1}{4}$ "	2 $\frac{1}{2}$ "	2 $\frac{3}{4}$ "	3"
SLEEVE		1 $\frac{1}{2}$ "	2"	2"	2 $\frac{1}{2}$ "	3"	3"	3 $\frac{1}{2}$ "	3 $\frac{1}{2}$ "	4"	5"	5"	5"
SQUARE PLATE WASHER	T	3/8"	3/8"	1/2"	1/2"	5/8"	3/4"	3/4"	3/4"	7/8"	7/8"	1"	1 $\frac{1}{4}$ "
	W	3 $\frac{1}{2}$ "	4"	5"	5"	6"	6"	8"	8"	9"	10"	11"	12"
CUP	Z	1 $\frac{1}{2}$ "	2"	2"	2 $\frac{1}{2}$ "	3"	3"	3 $\frac{1}{2}$ "	4"	5"	5"	5"	6"
	Y	2"	2 $\frac{1}{2}$ "	2 $\frac{1}{2}$ "	2 $\frac{1}{2}$ "	3"	3"	3 $\frac{1}{2}$ "	3 $\frac{1}{2}$ "	4"	4"	4 $\frac{1}{2}$ "	4 $\frac{1}{2}$ "

Note: The plastic plug will be removed and the pipe sleeve filled with grout after the equipment has been set in place.

CLINTON POWER STATION
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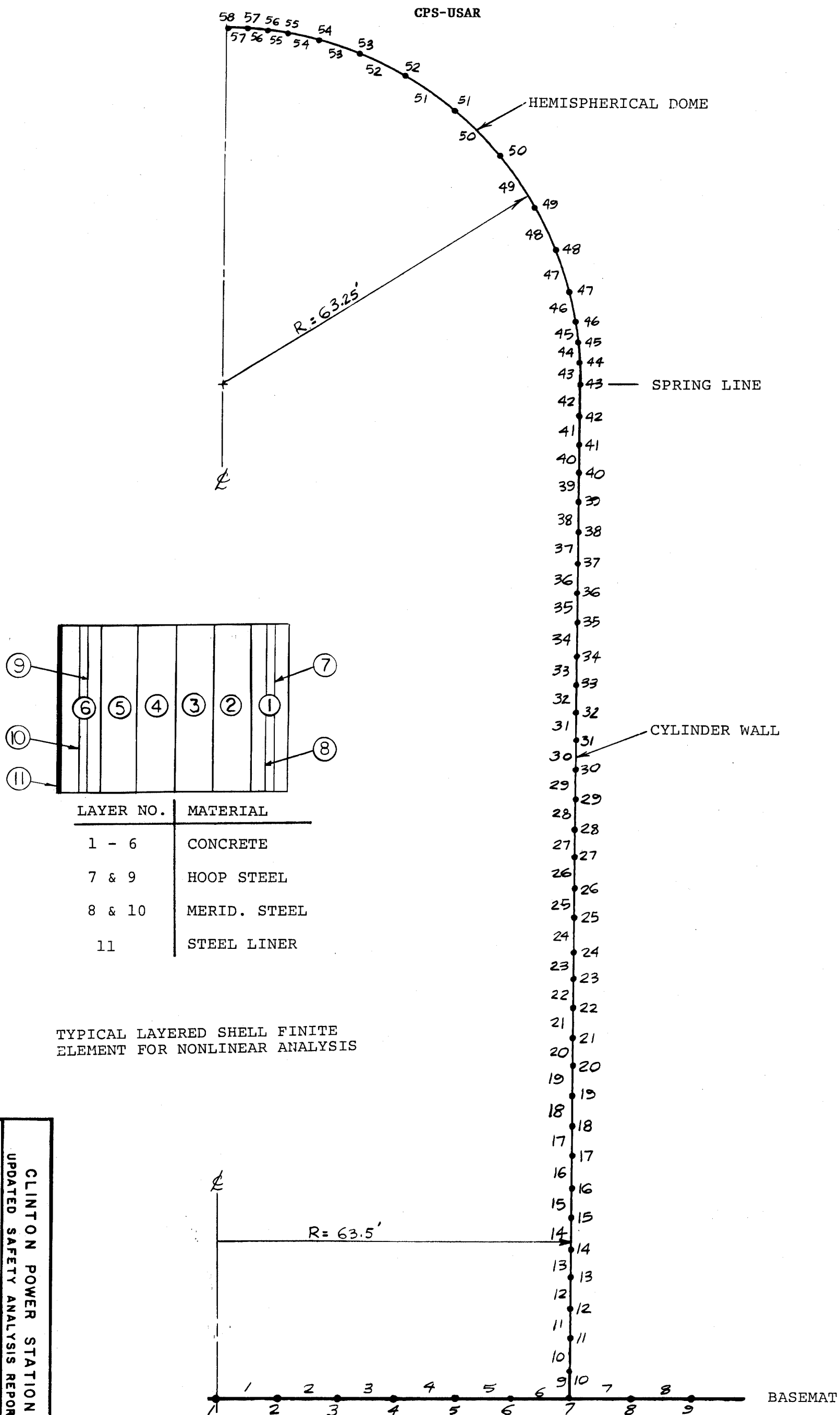
FIGURE 3.8-38

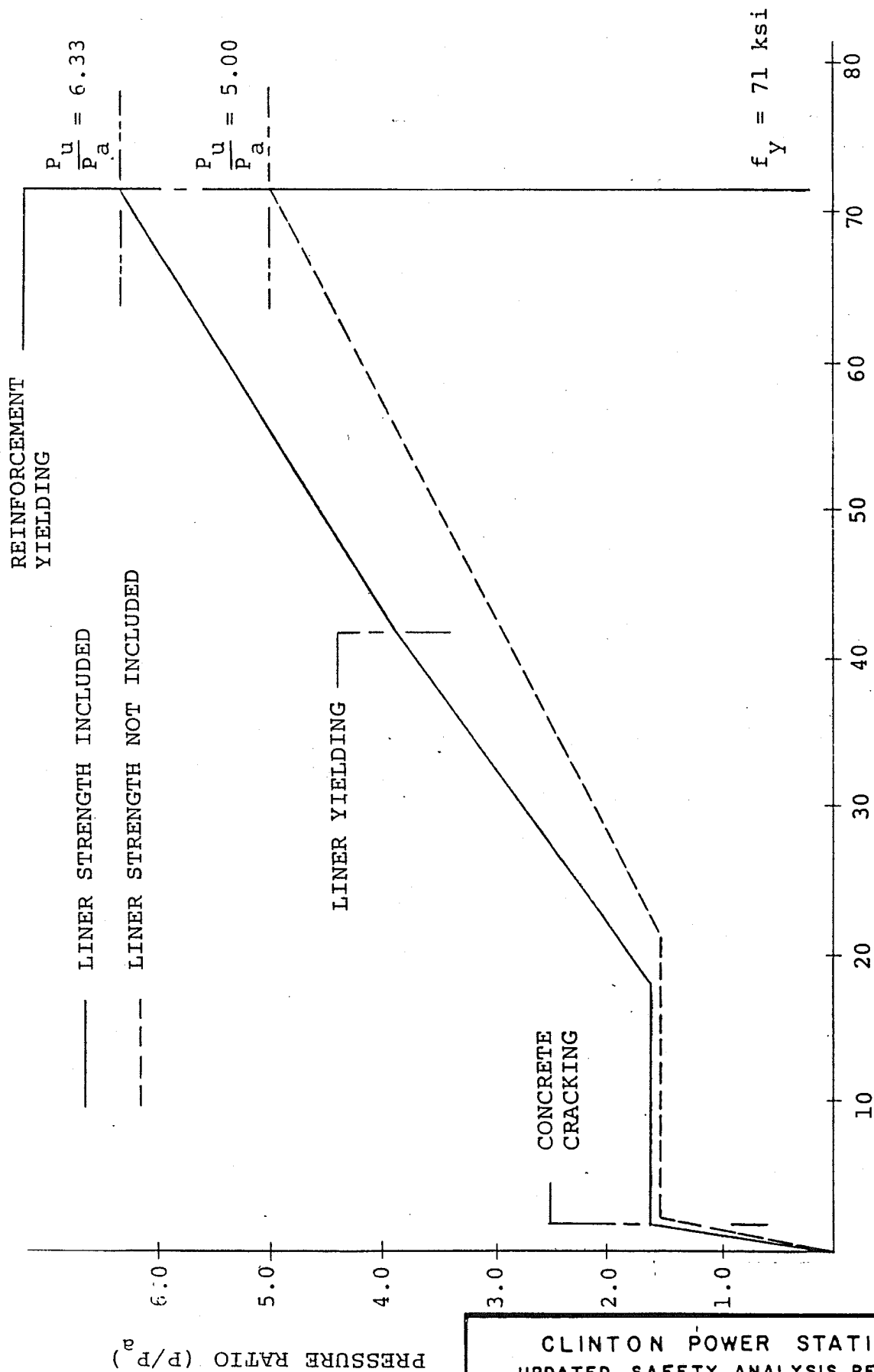
TYPICAL ANCHOR BOLT DETAILS FOR
SEISMIC CATEGORY I EQUIPMENT

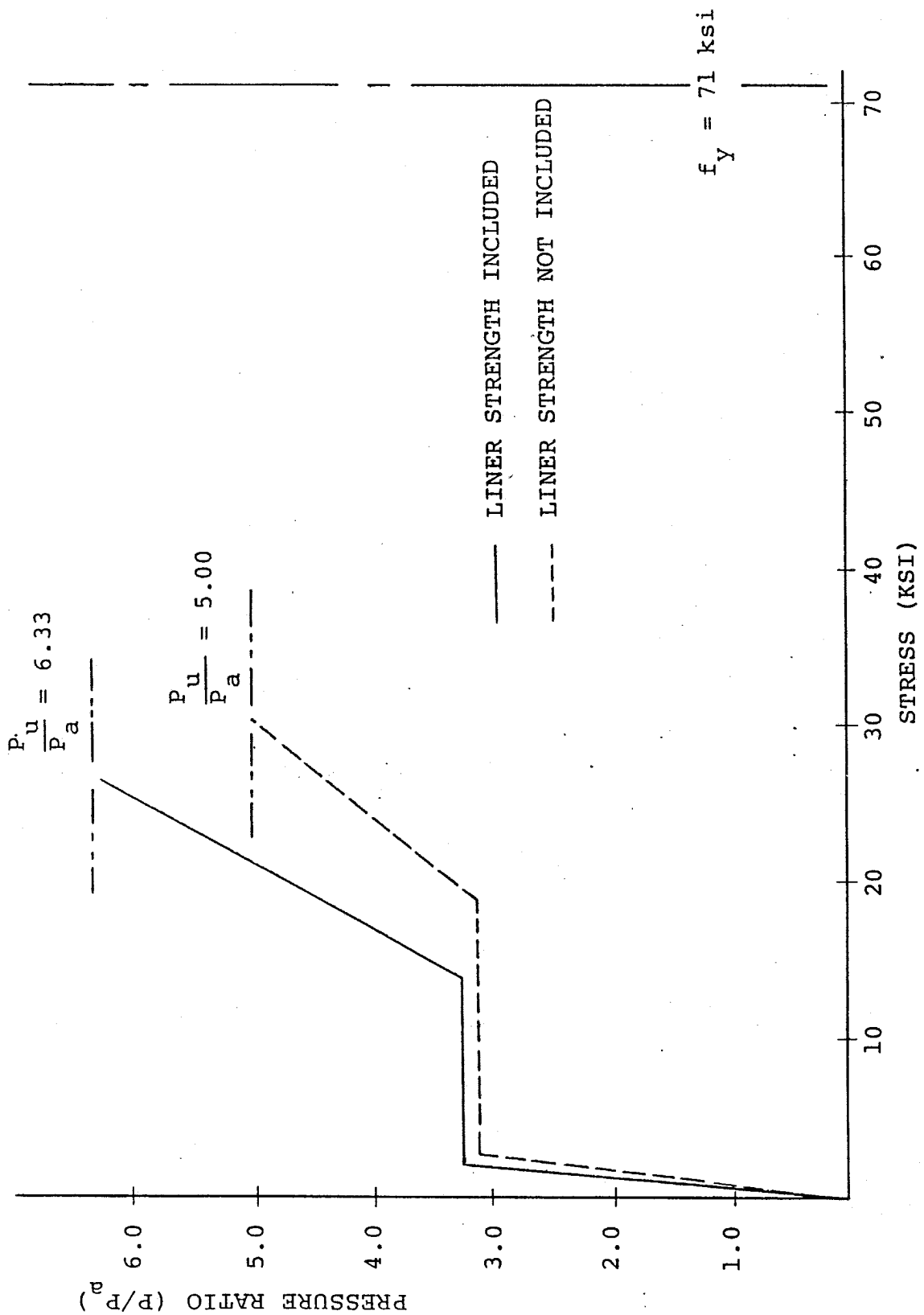


CLINTON POWER STATION
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FIGURE 3.8-39
CRITICAL SECTIONS
IN CONTAINMENT STRUCTURE

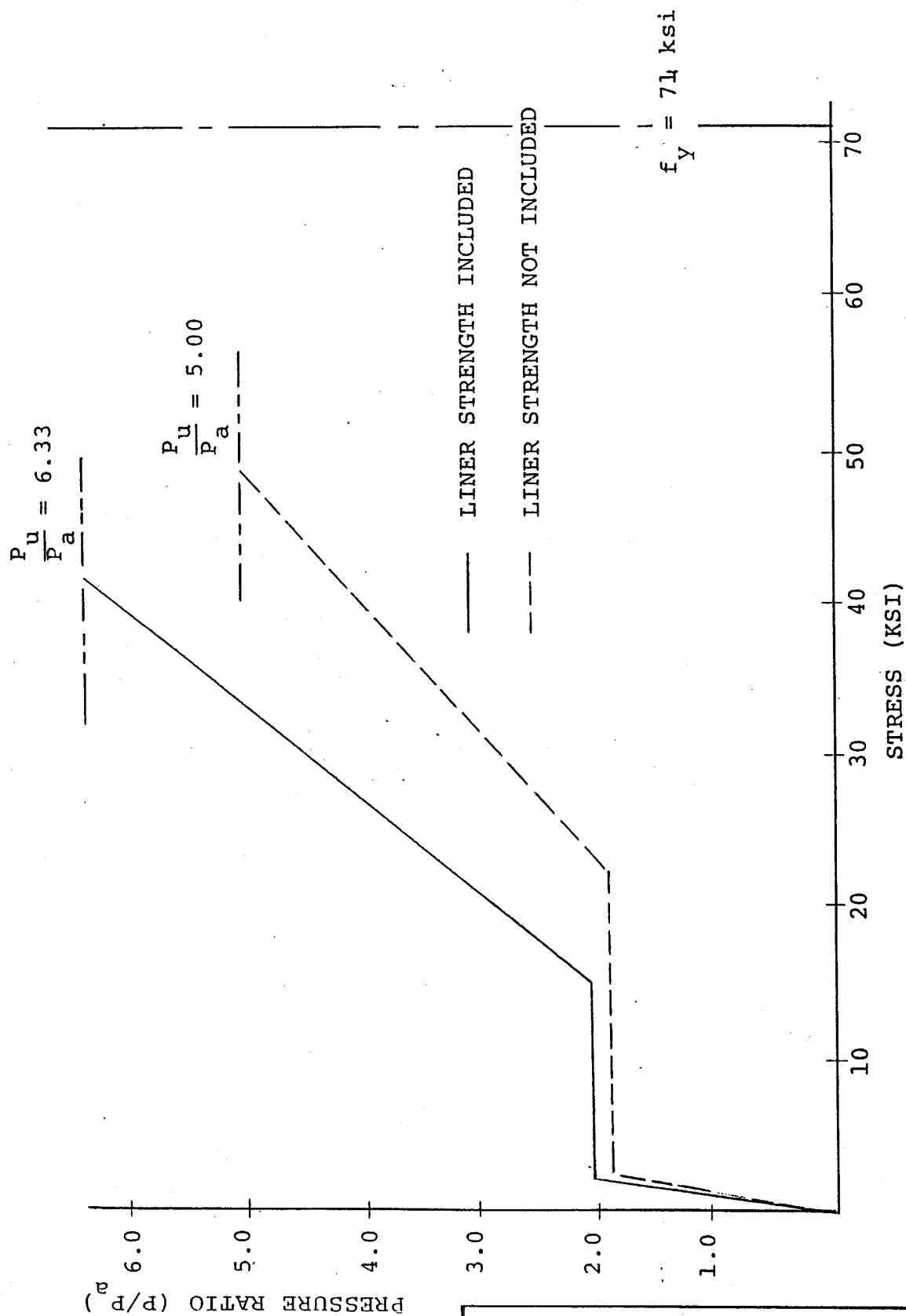






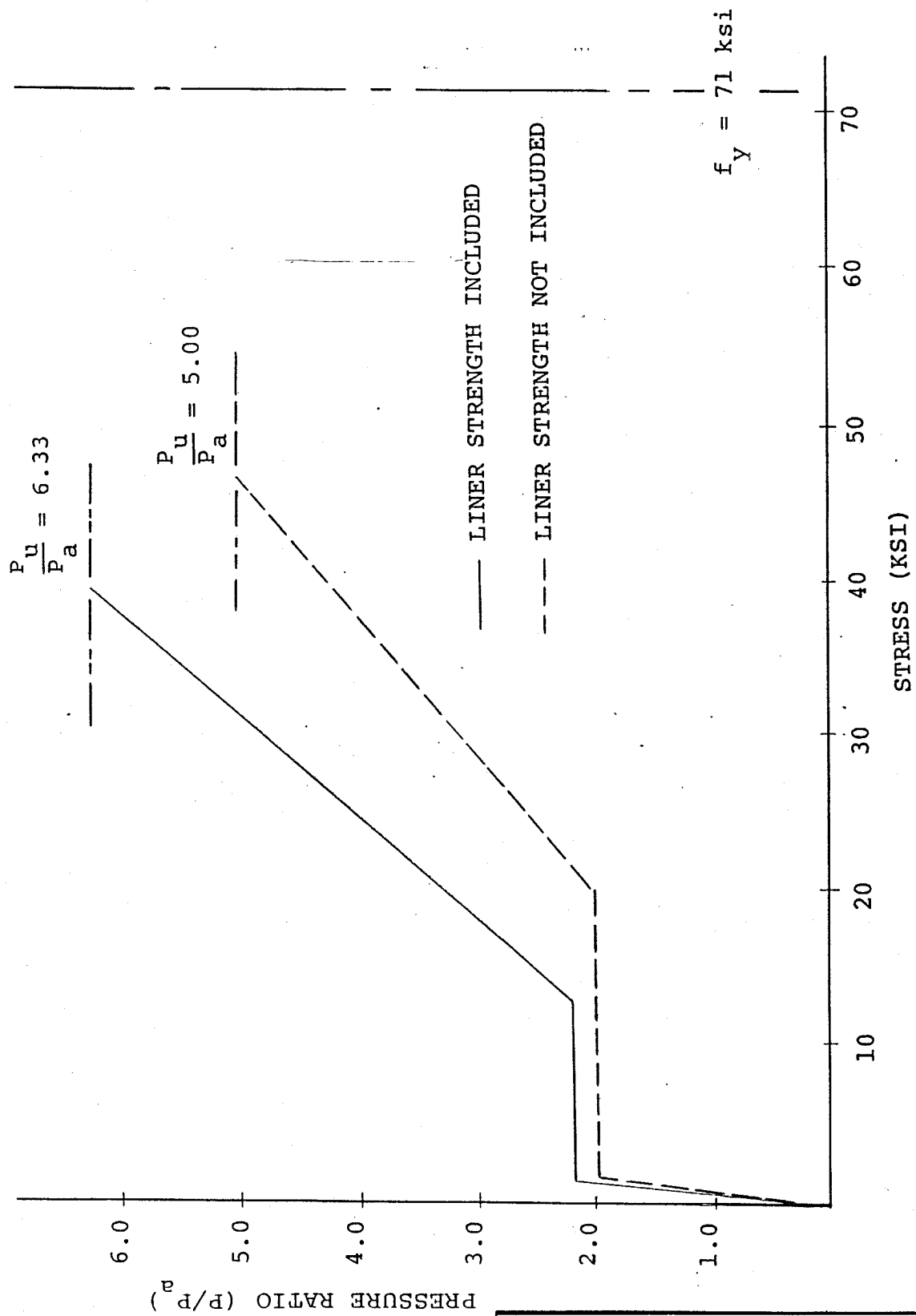
CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.8-42
PRESSURE RATIO VS.
MERIDIONAL STEEL STRESS
IN CONTAINMENT CYLINDER
(EL. 844 FT.)



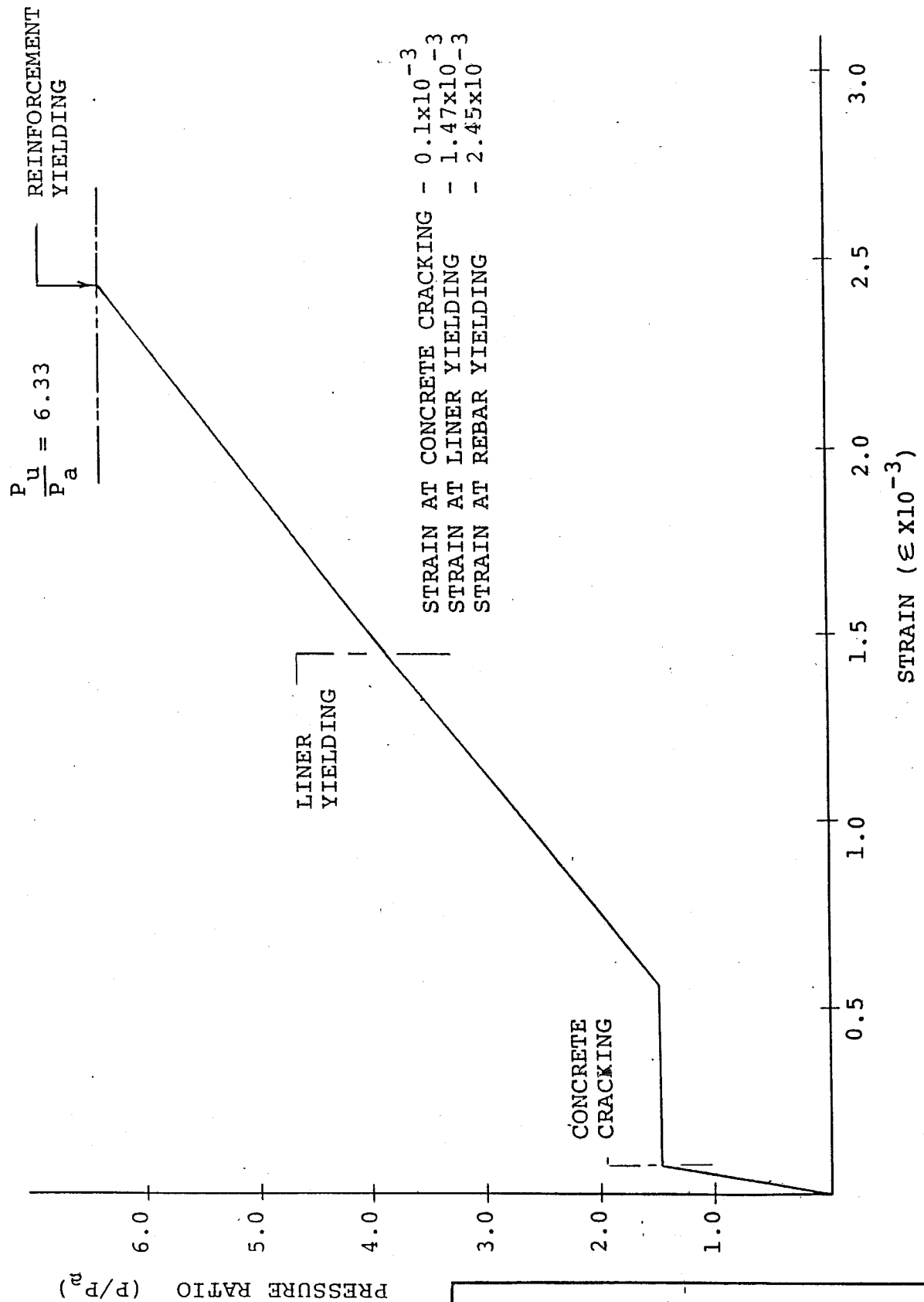
CLINTON POWER STATION
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FIGURE 3.8-43
PRESSURE RATIO VS.
HOOP STEEL STRESS
IN CONTAINMENT DOME
(EL. 906 FT.)



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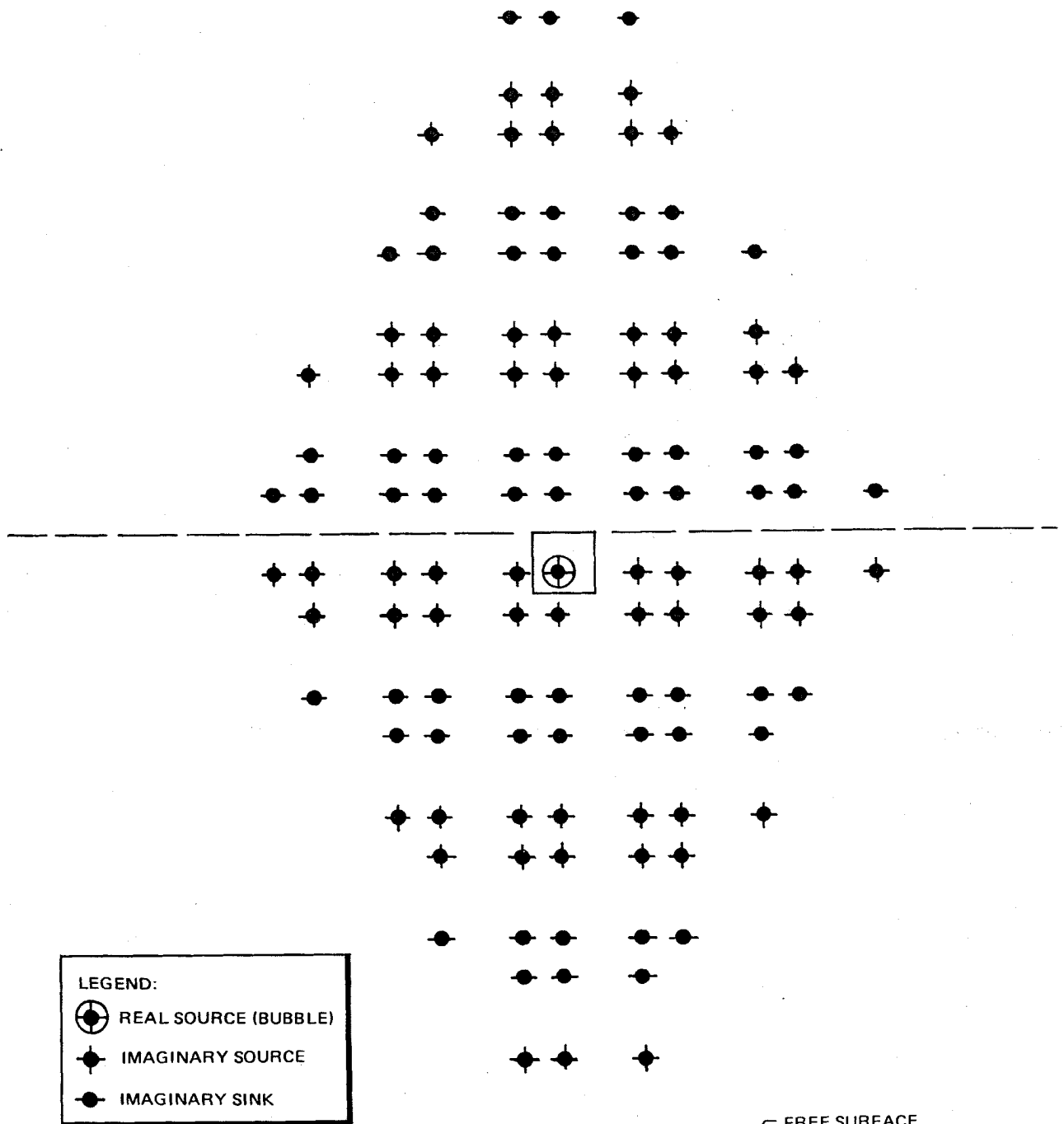
FIGURE 3.8-44
 PRESSURE RATIO VS.
 MERIDIONAL STEEL STRESS
 IN CONTAINMENT DOME
 (EL. 906 FT.)



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.8-45

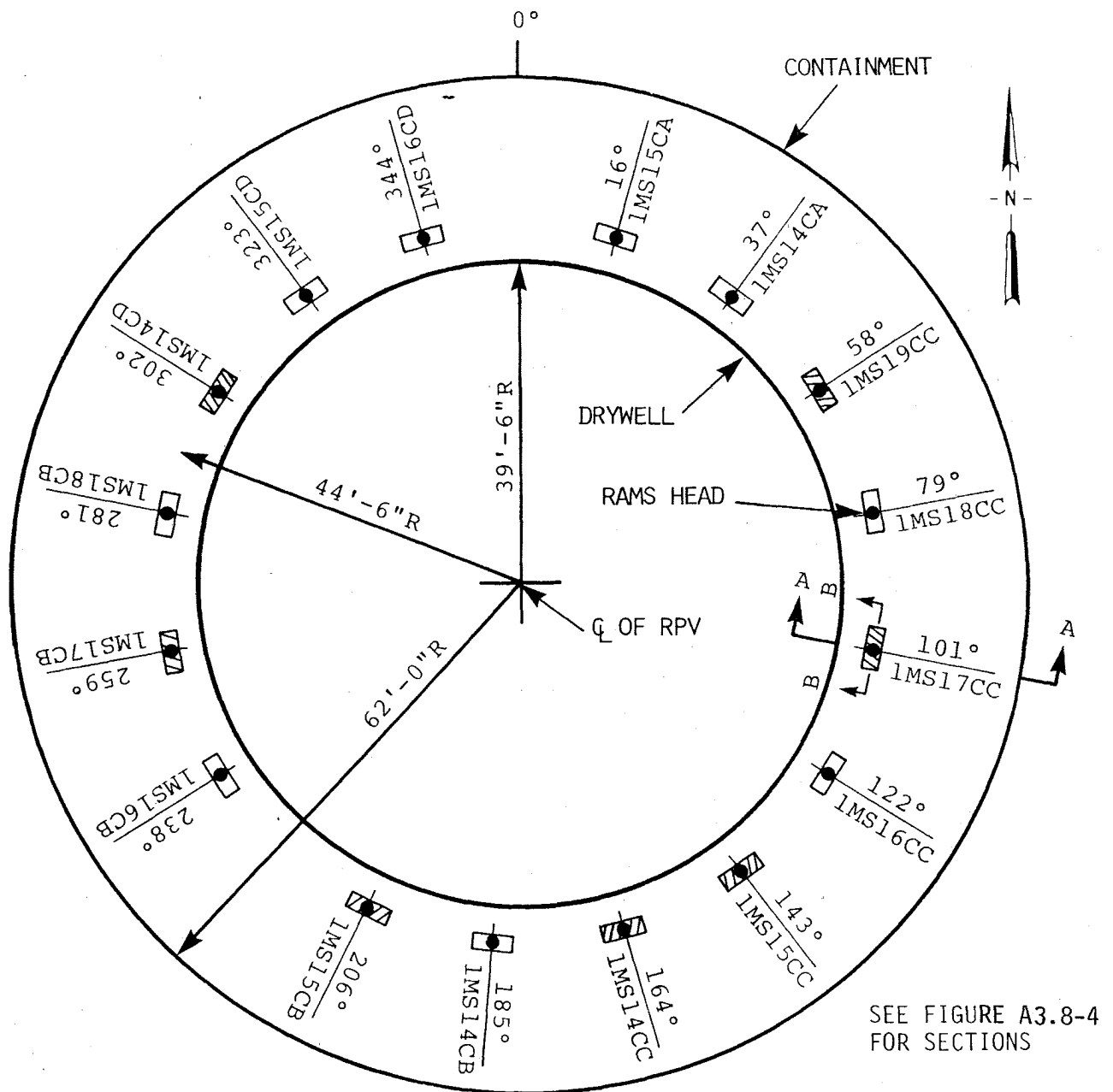
PRESSURE RATIO VS.
MAXIMUM MEMBRANE HOOP
SECTION STRAIN IN LINER



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE A3.8-1

ARRAY OF IMAGINARY SOURCES AND SINKS
FOR METHOD OF IMAGES MODEL OF
SUPPRESSION POOL



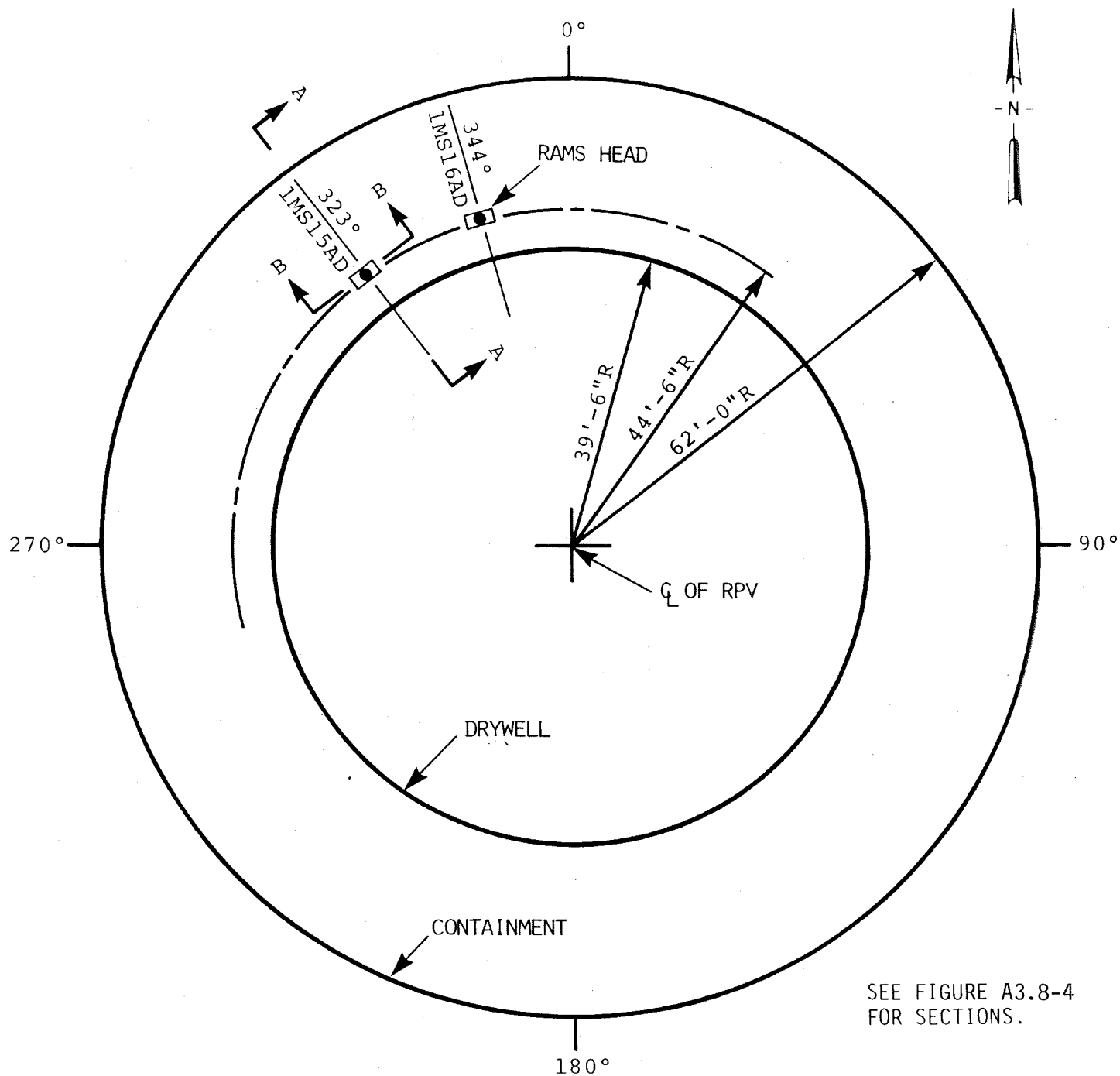
NOTES:

1. NOT TO SCALE.
2. CROSS HATCHED VENTS ARE ATTACHED TO ADS VALVES.
3. RAMS HEADS ARE ORIENTED CIRCUMFERENTIALLY.

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FIGURE A3.8-2

PLAN OF CLINTON SUPPRESSION POOL
SHOWING THE VENTS ACTIVE IN THE
SYMMETRIC LOADING CASE



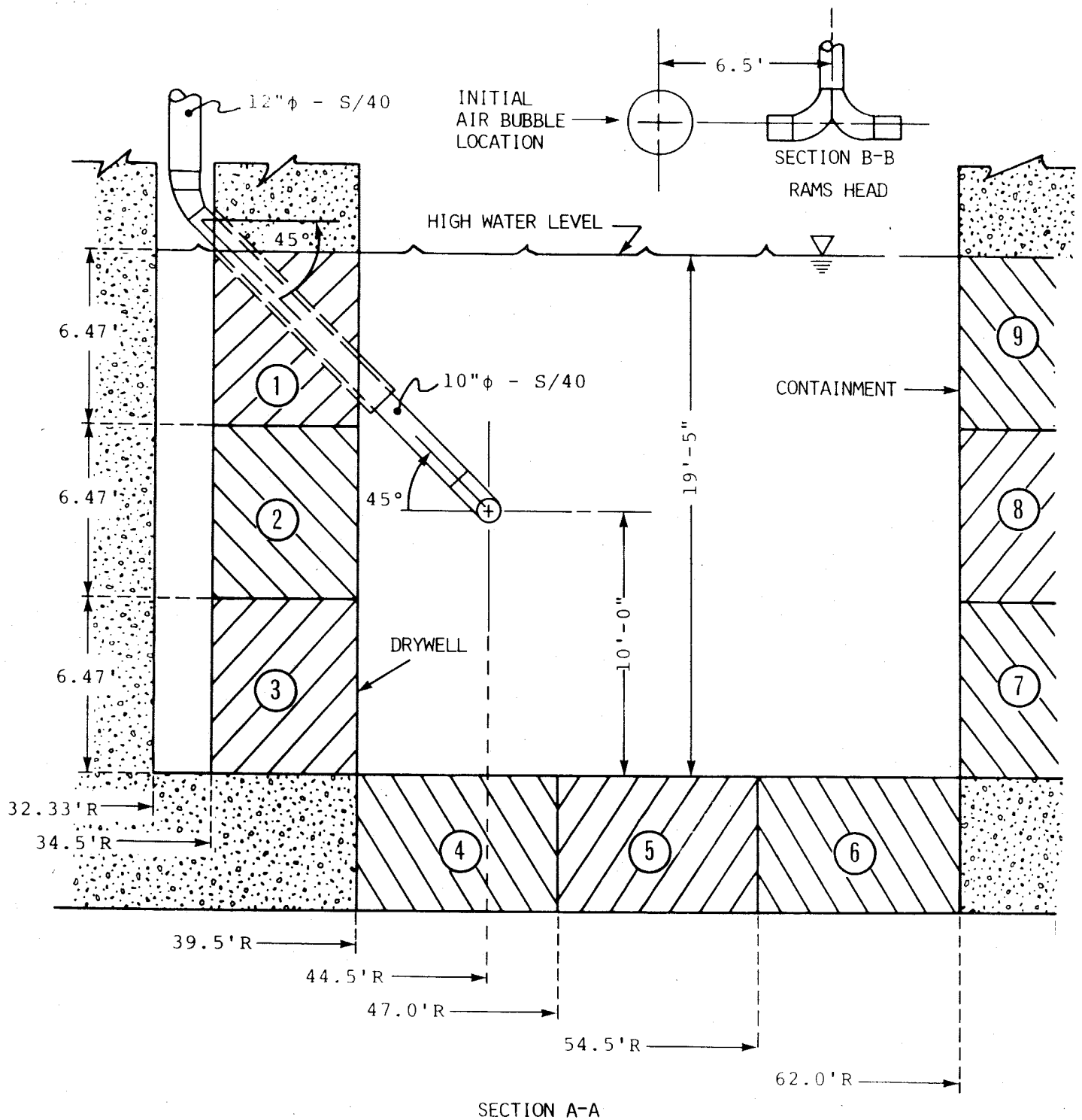
NOTES:

1. NOT TO SCALE.
2. RAMS HEADS ARE ORIENTED CIRCUMFERENTIALLY.

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FIGURE A3.8-3

PLAN OF CLINTON SUPPRESSION POOL
SHOWING THE VENTS ACTIVE IN THE
ASYMMETRIC LOADING CASE

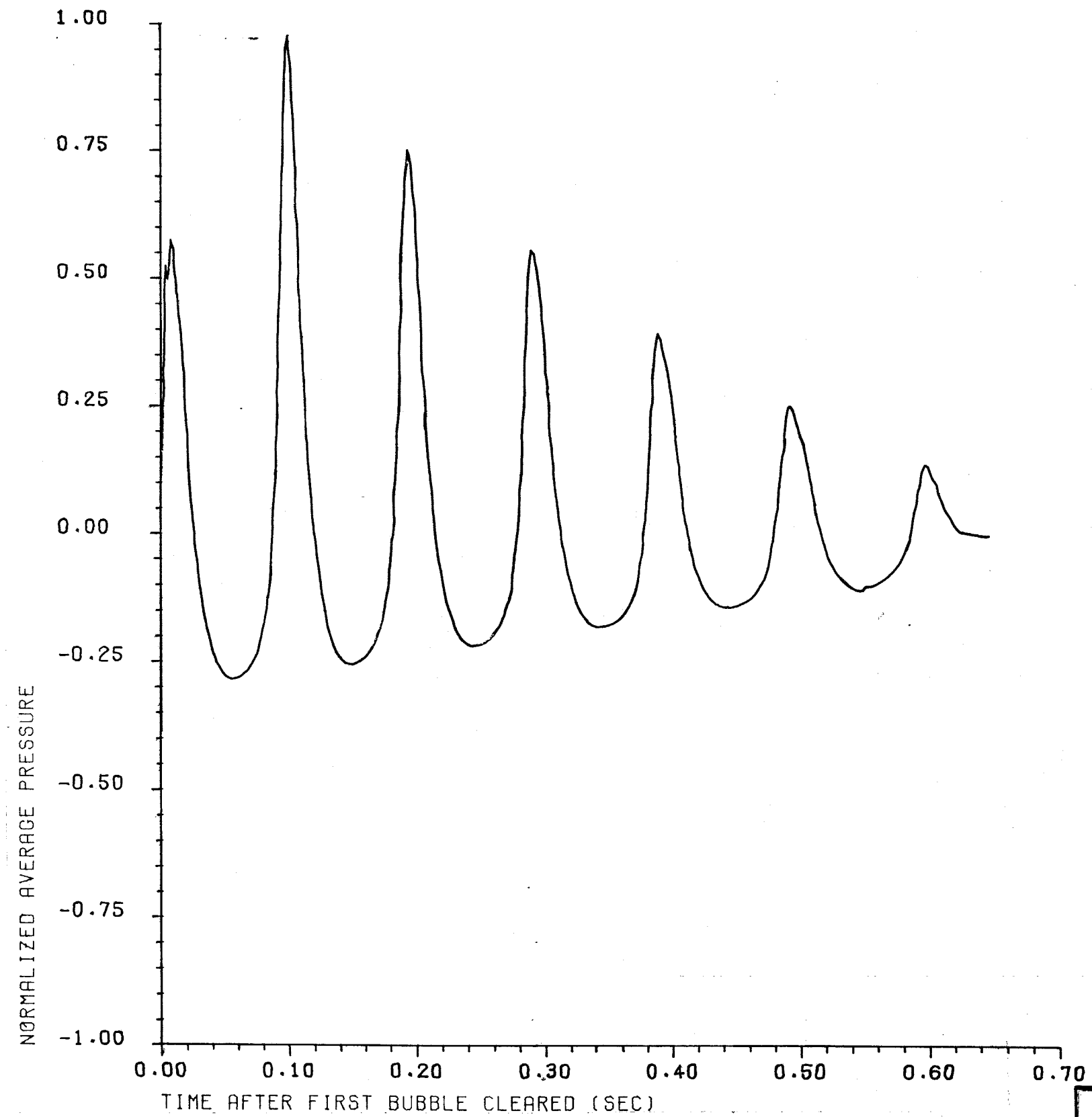


○ - ZONES FOR PRESSURE LOADING ON POOL BOUNDARY.

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FIGURE A3.8-4

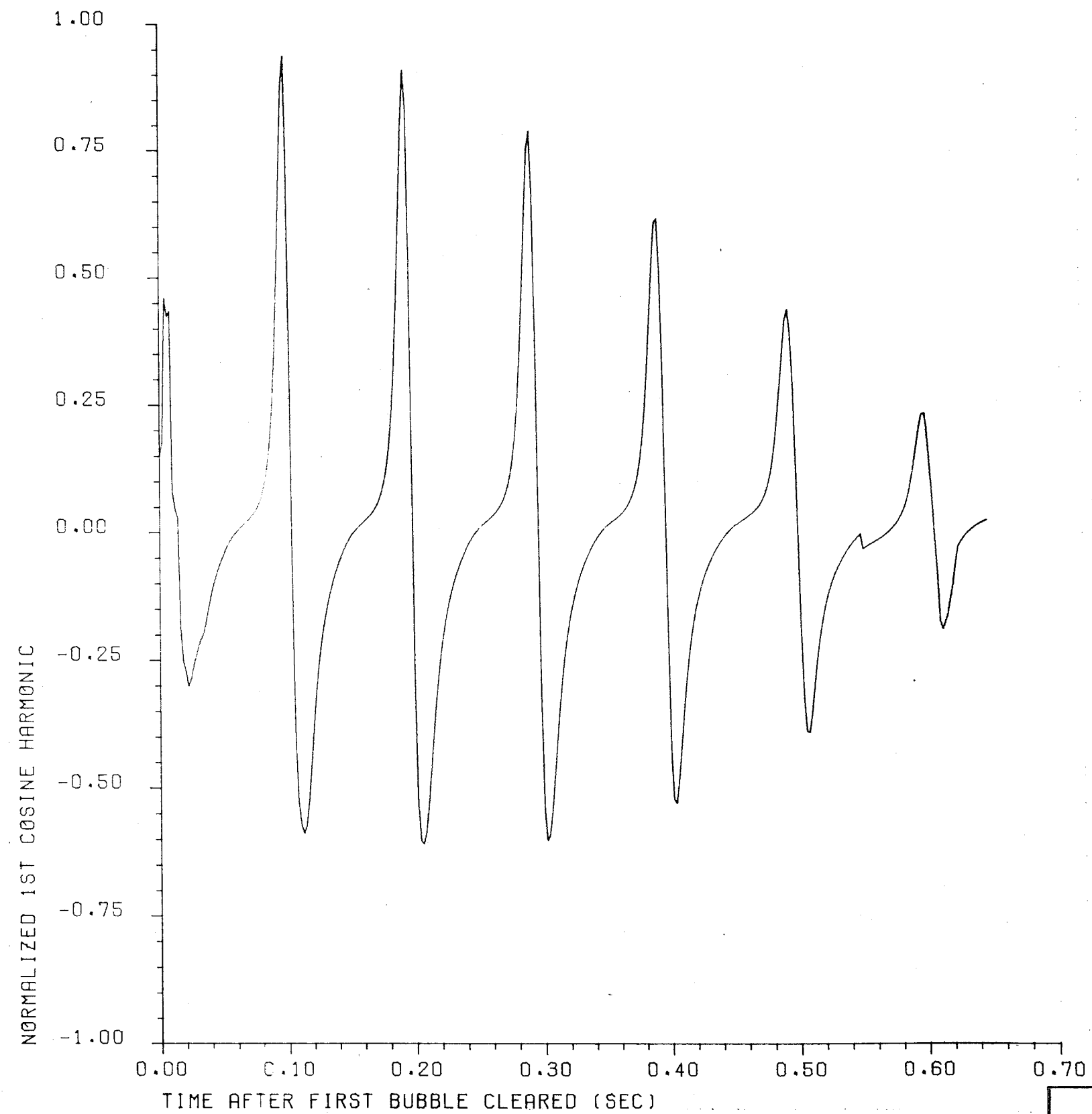
CROSS SECTION OF SUPPRESSION POOL



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UPDATED SAFETY ANALYSIS REPORT

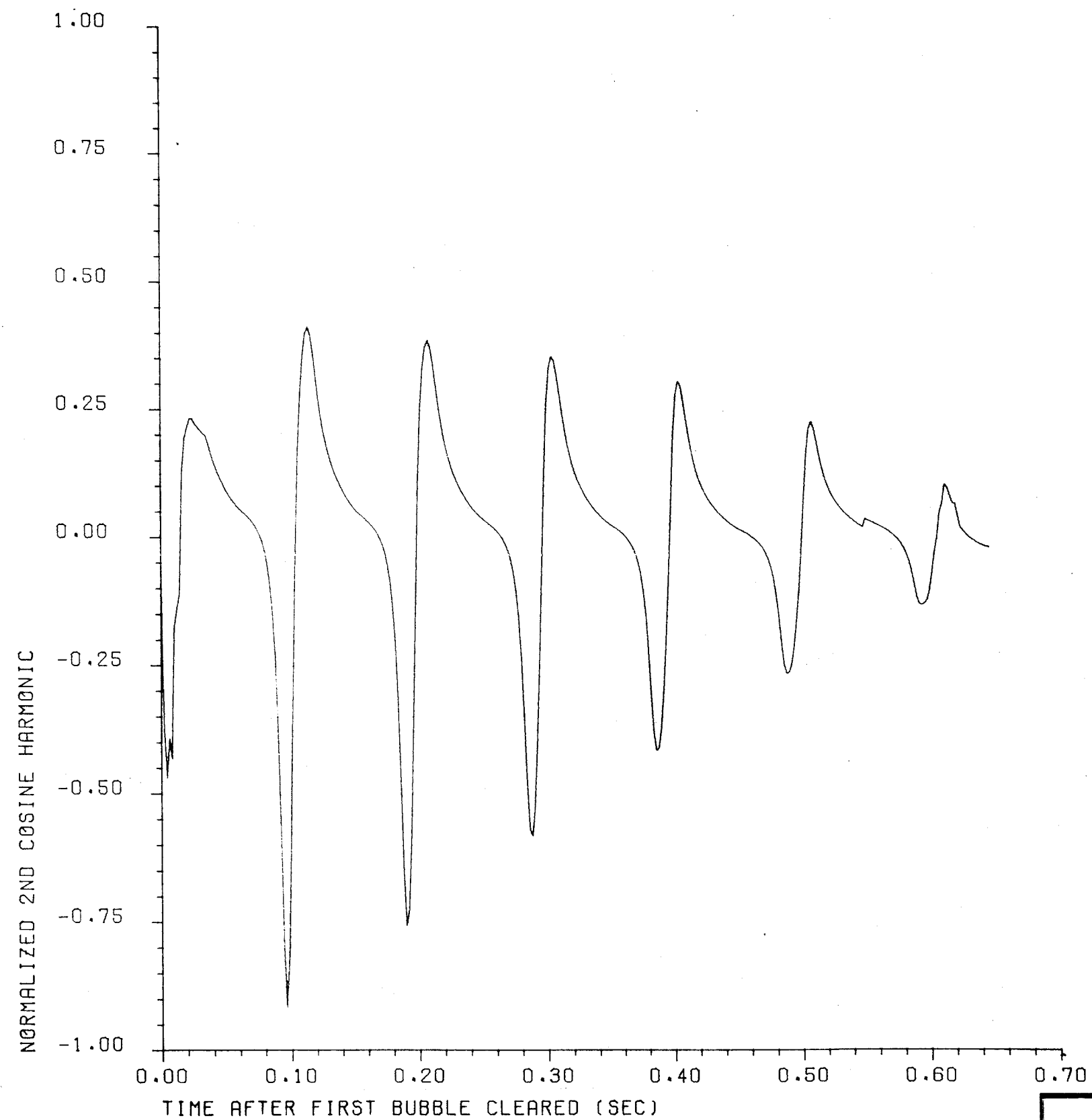
FIGURE A3.8-5

SYMMETRIC WALL LOADING
ZONE 4
NORMALIZED AVERAGE PRESSURE



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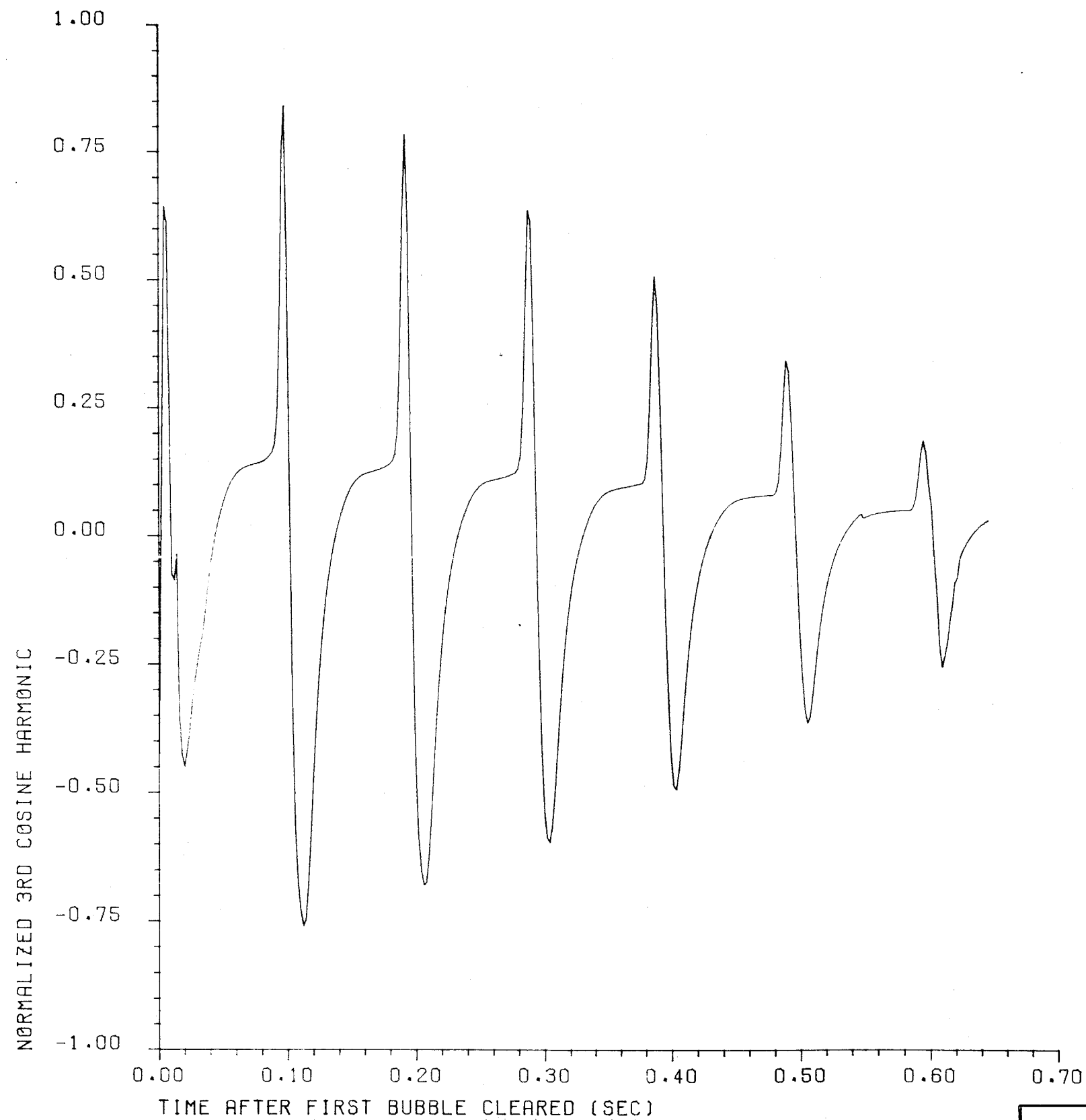
FIGURE A3.8-6
SYMMETRIC WALL LOADING
ZONE 4
NORMALIZED 1st COSINE HARMONIC



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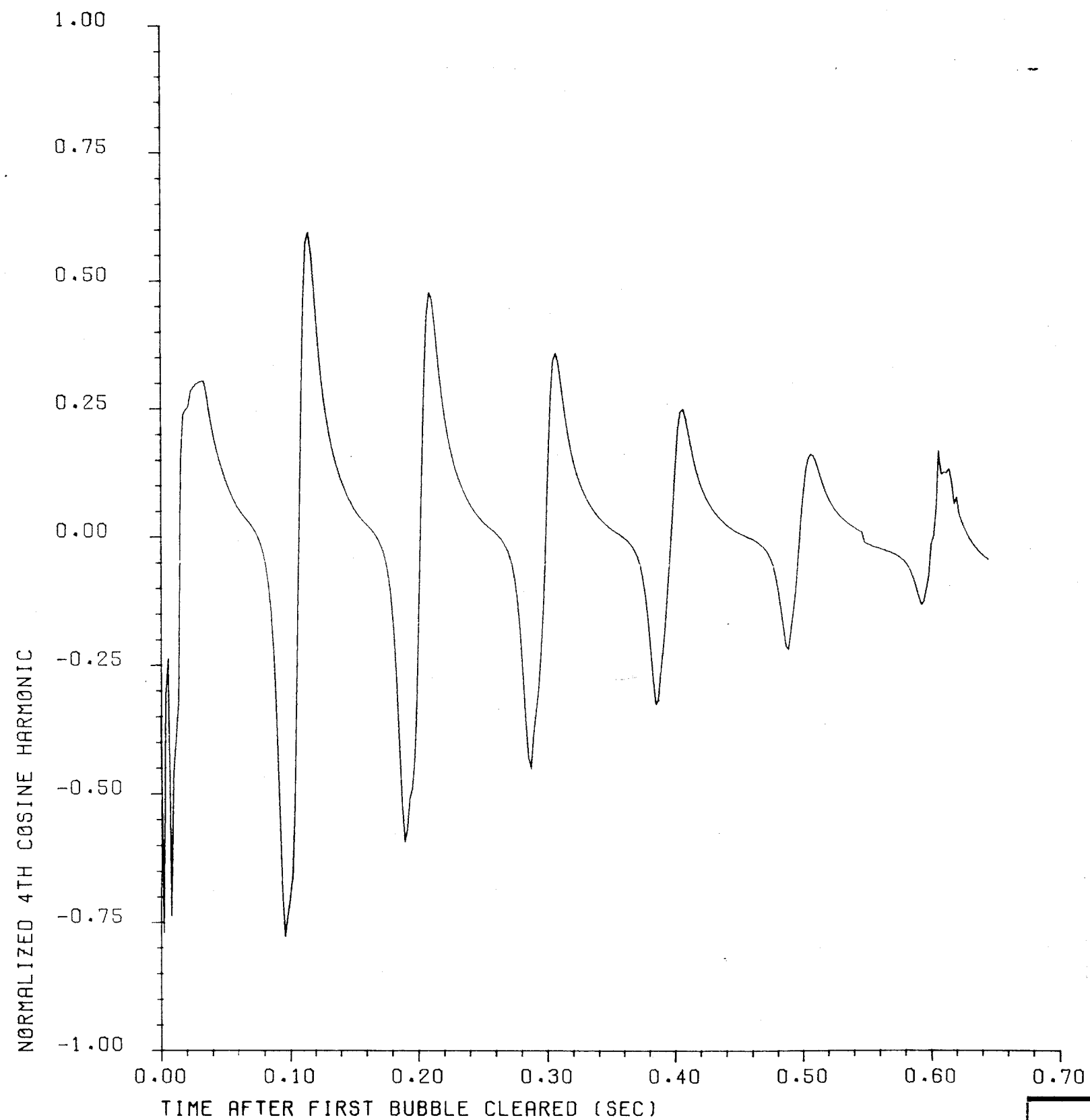
FIGURE A3.8-7

SYMMETRIC WALL LOADING
ZONE 4
NORMALIZED 2nd COSINE HARMONIC



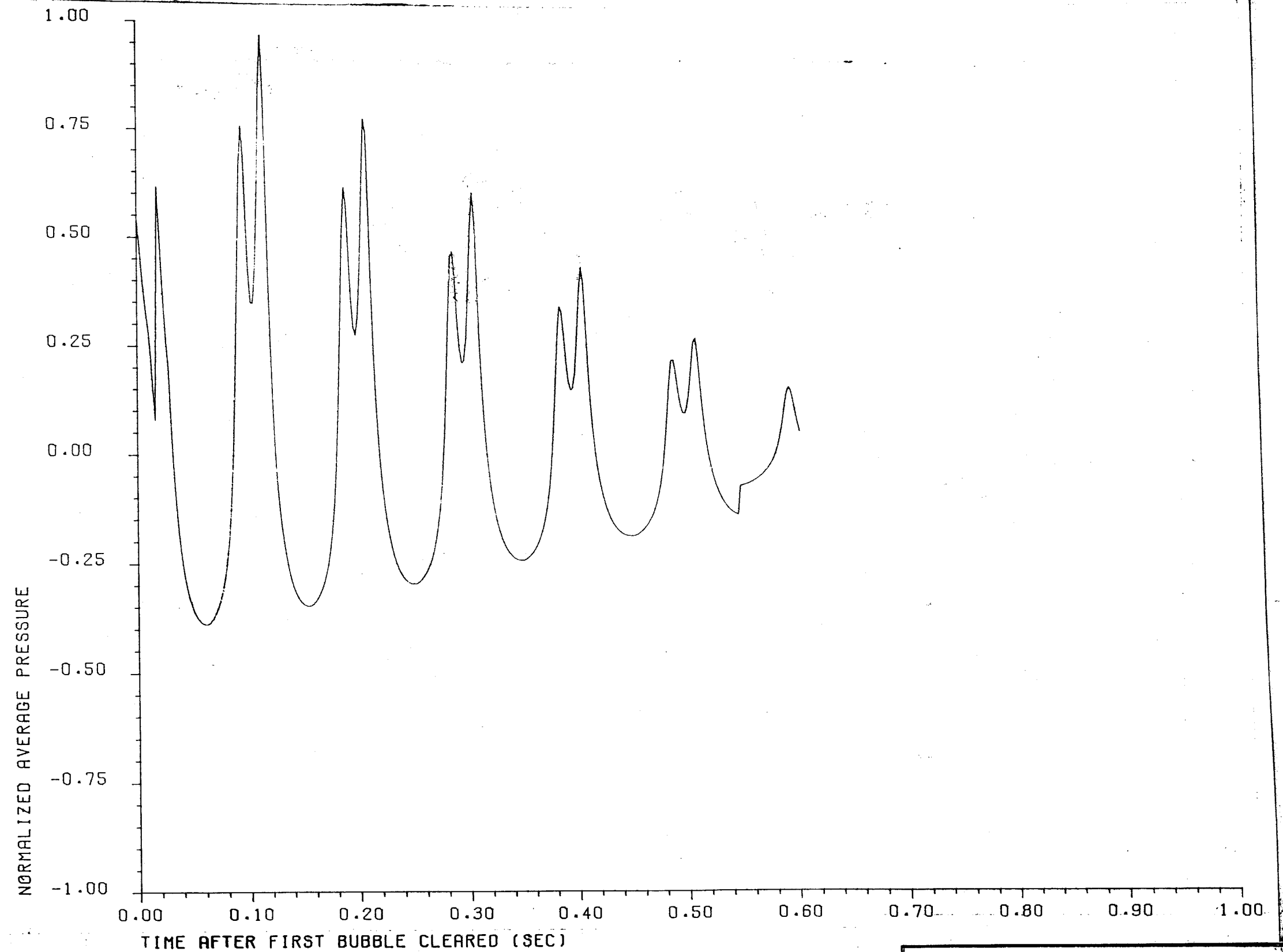
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FIGURE A3.8-8
SYMMETRIC WALL LOADING
ZONE 4
NORMALIZED 3rd COSINE HARMONIC



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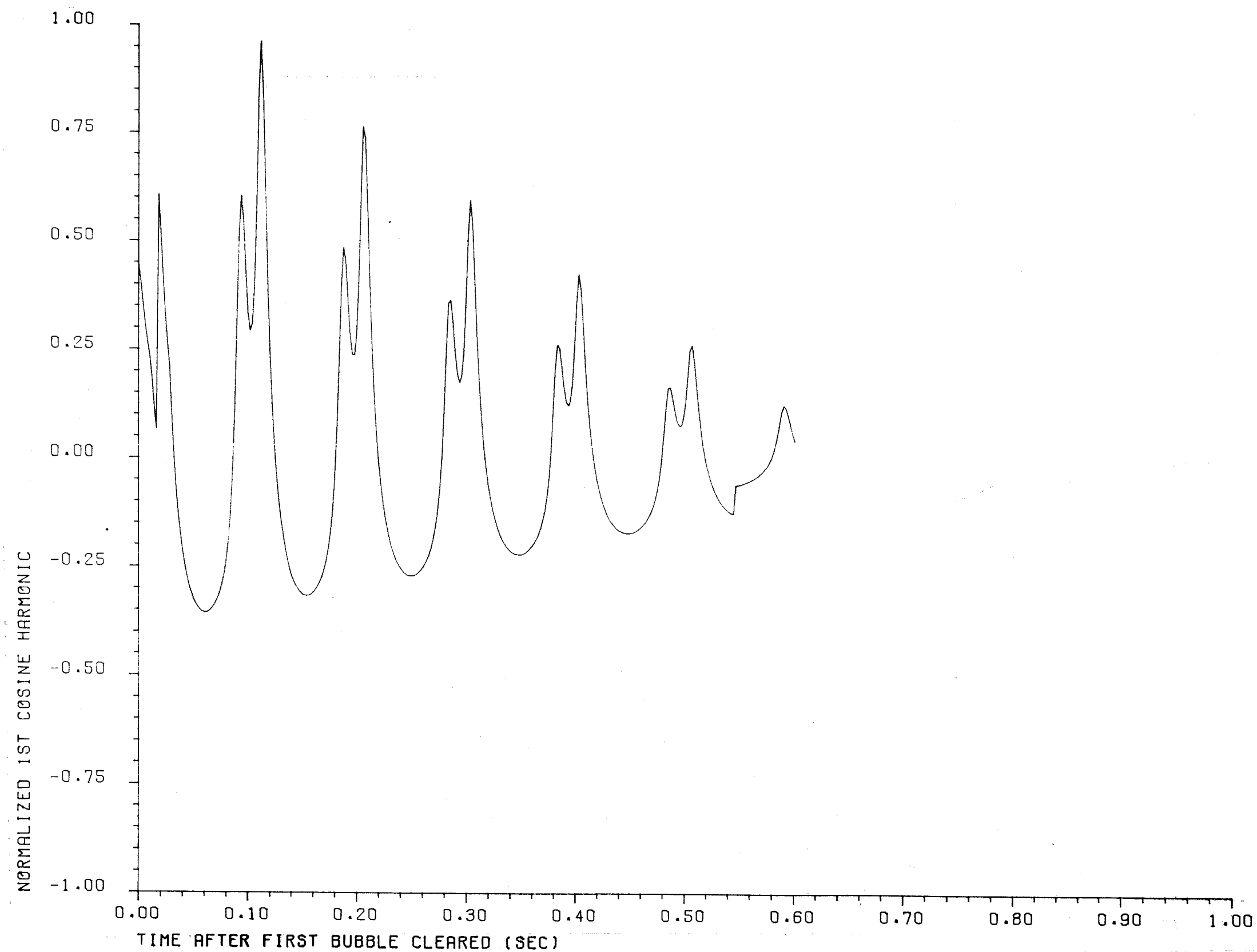
FIGURE A3.8-9
SYMMETRIC WALL LOADING
ZONE 4
NORMALIZED 4th COSINE HARMONIC



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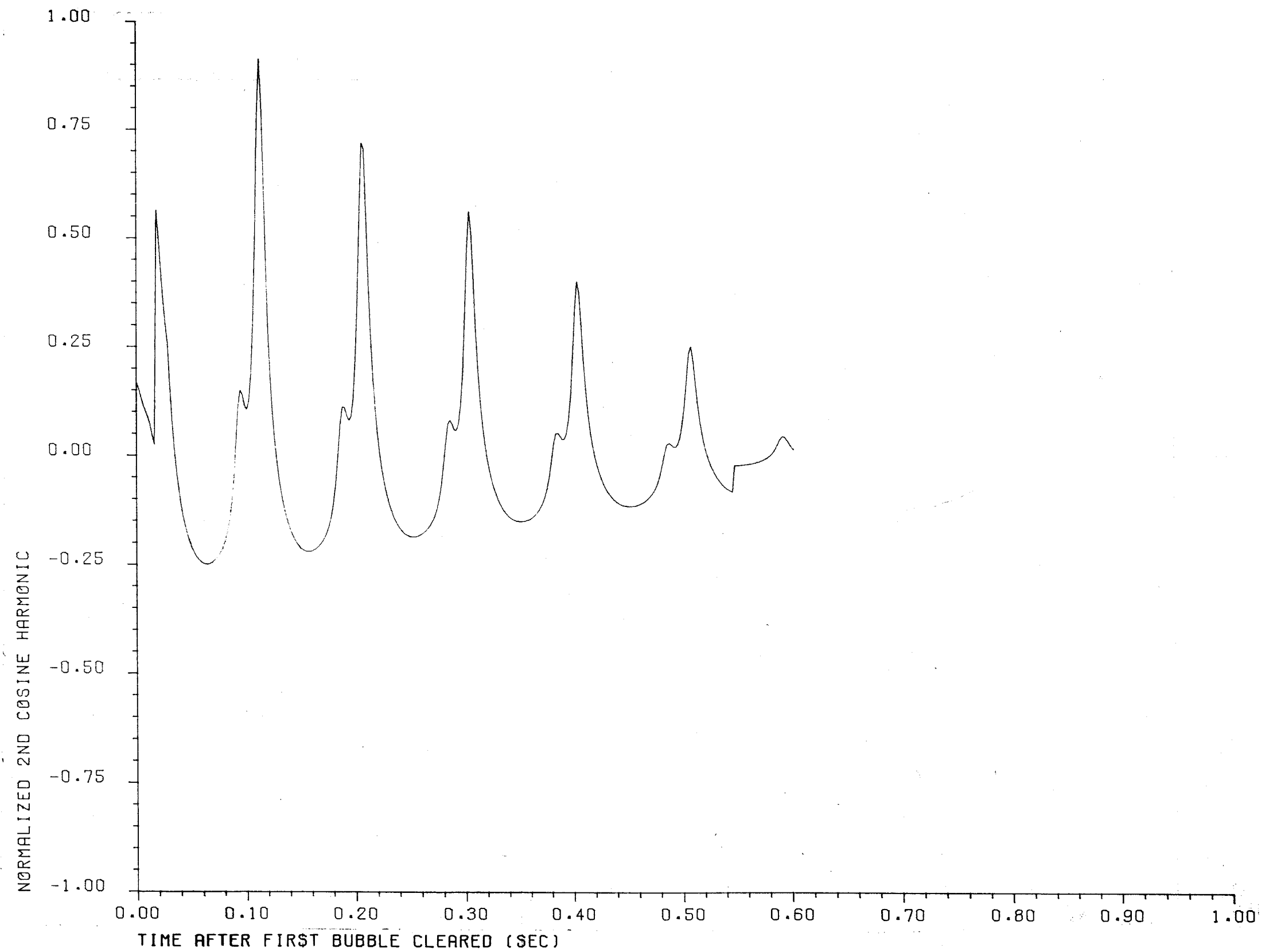
FIGURE A3.8-10

ASYMMETRIC DISCHARGE WALL LOADING
ZONE 4
NORMALIZED AVERAGE PRESSURE



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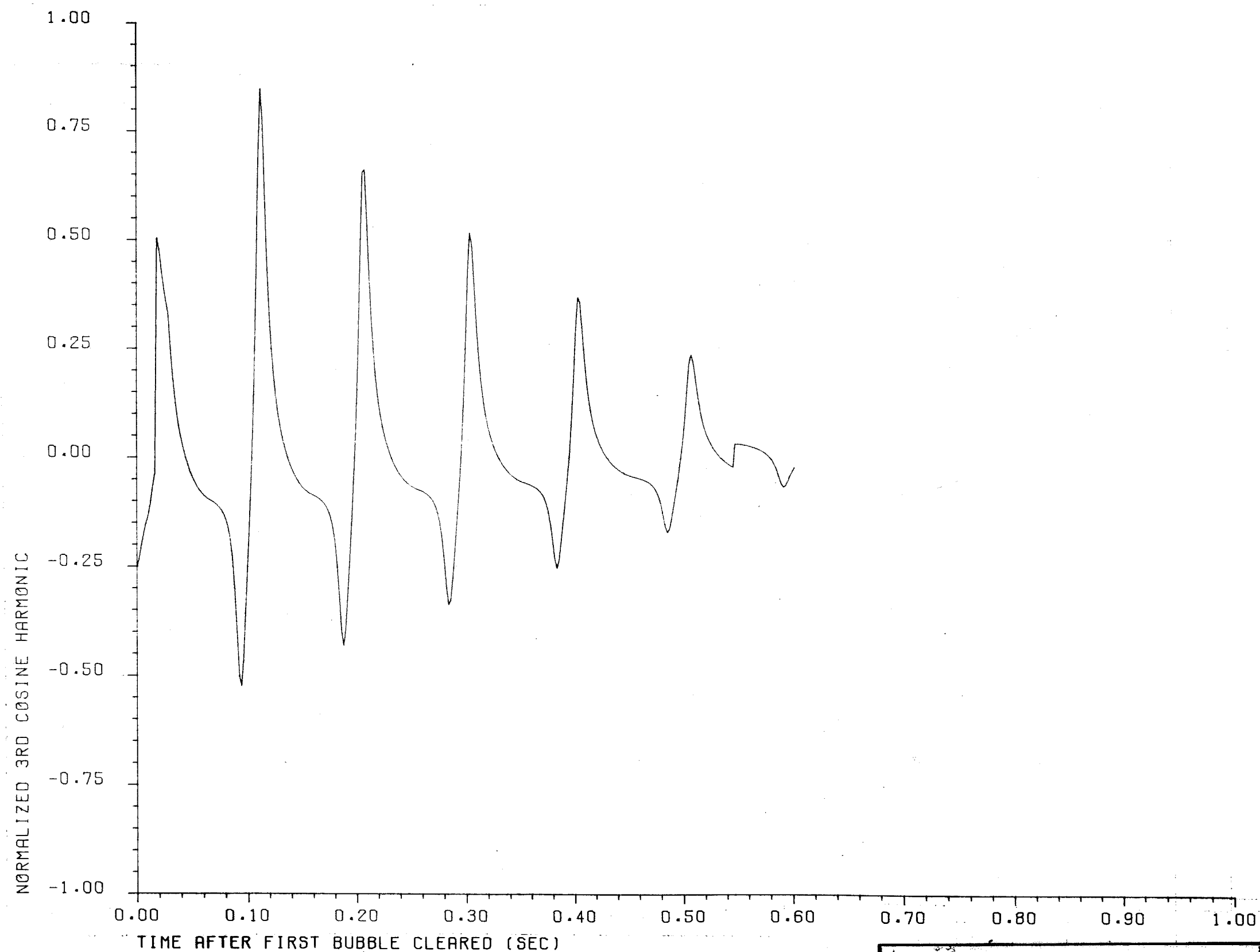
FIGURE A3.8-11
ASYMMETRIC DISCHARGE WALL LOADING
ZONE 4
NORMALIZED 1st COSINE HARMONIC



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FIGURE A3.8-12

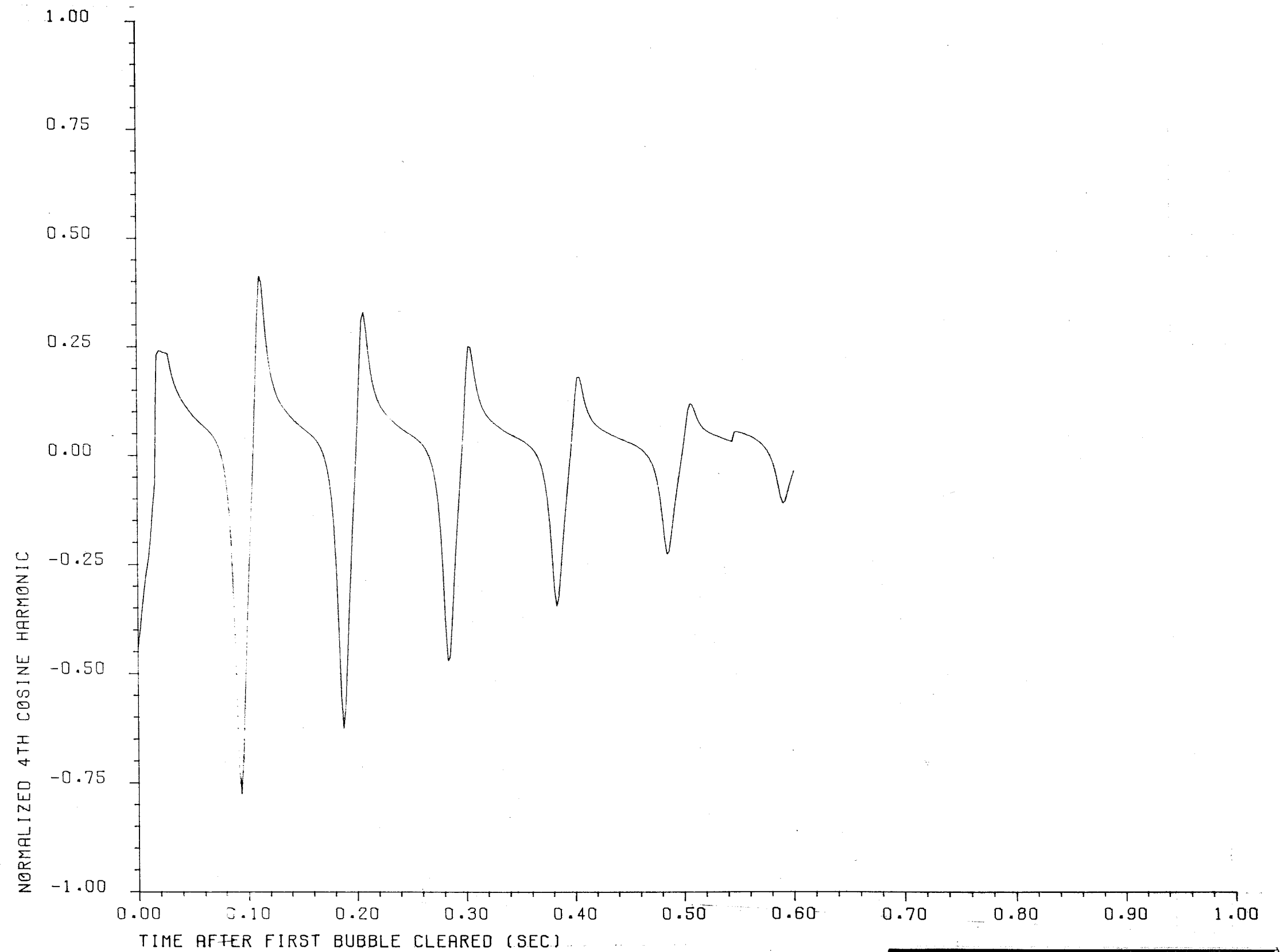
ASYMMETRIC DISCHARGE WALL LOADING
ZONE 4
NORMALIZED 2nd COSINE HARMONIC



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FIGURE A3.8-13

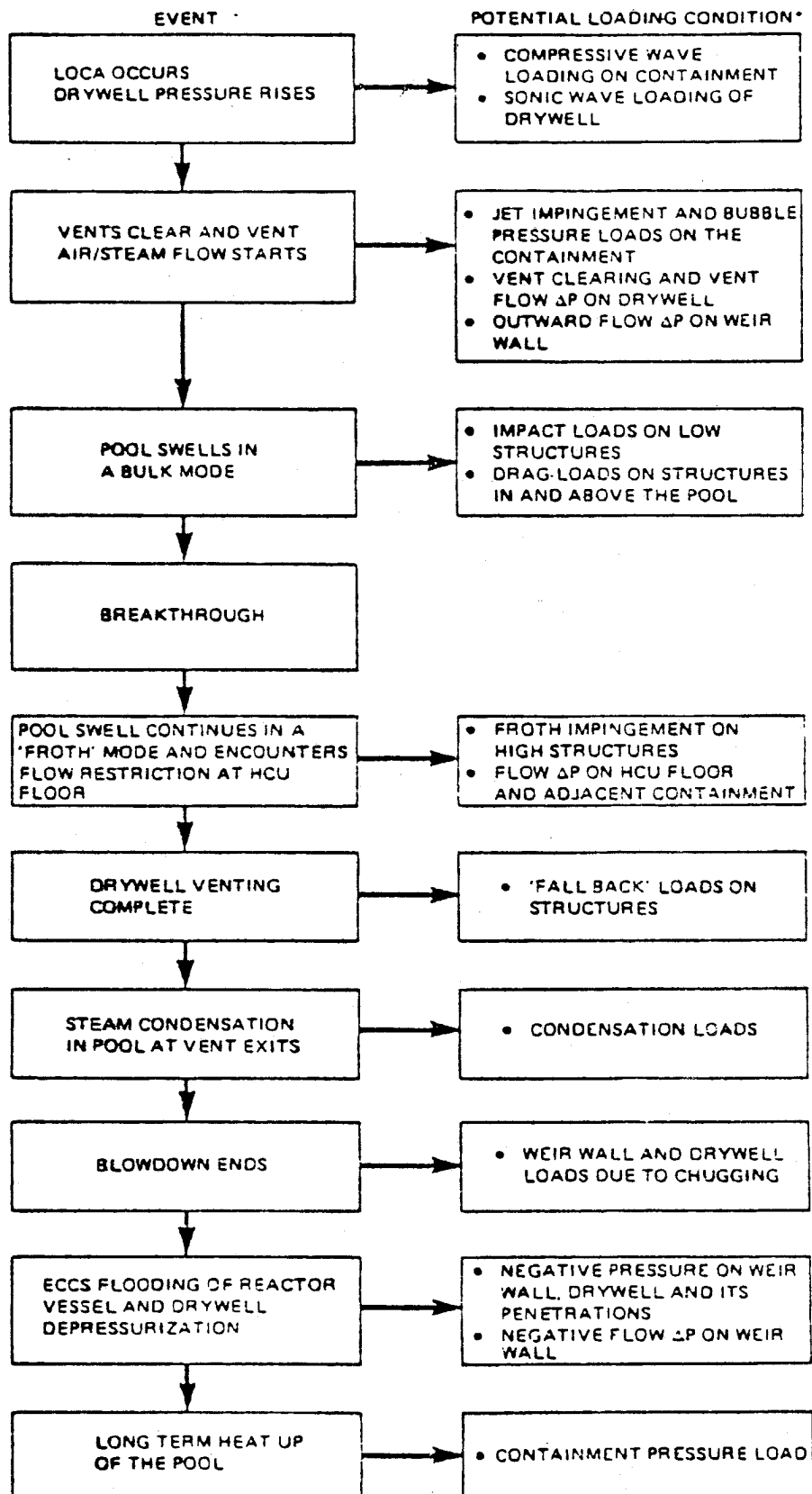
ASYMMETRIC DISCHARGE WALL LOADING
ZONE 4
NORMALIZED 3rd COSINE HARMONIC



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FIGURE A3.8-14

ASYMMETRIC DISCHARGE WALL LOADING
ZONE 4
NORMALIZED 4th COSINE HARMONIC

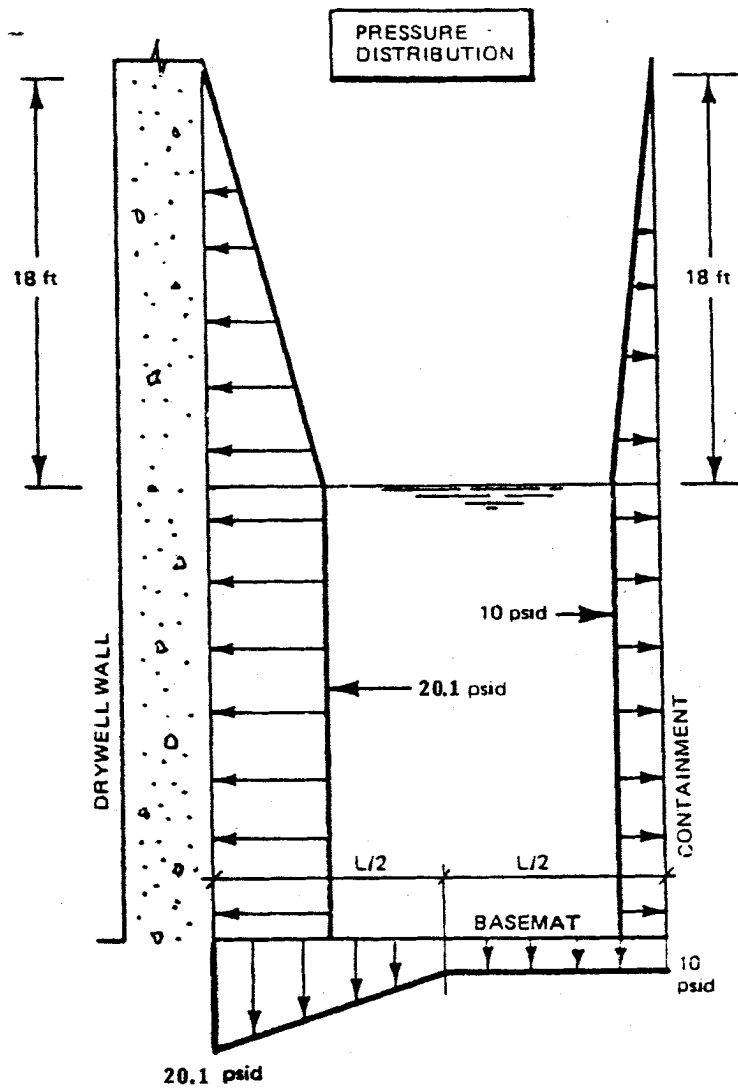


*ALL POTENTIAL LOCA DYNAMIC LOADS ARE IDENTIFIED, BUT ALL ARE NOT SIGNIFICANT (SEE TEXT FOR DETAILS)

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FIGURE A3.8-15

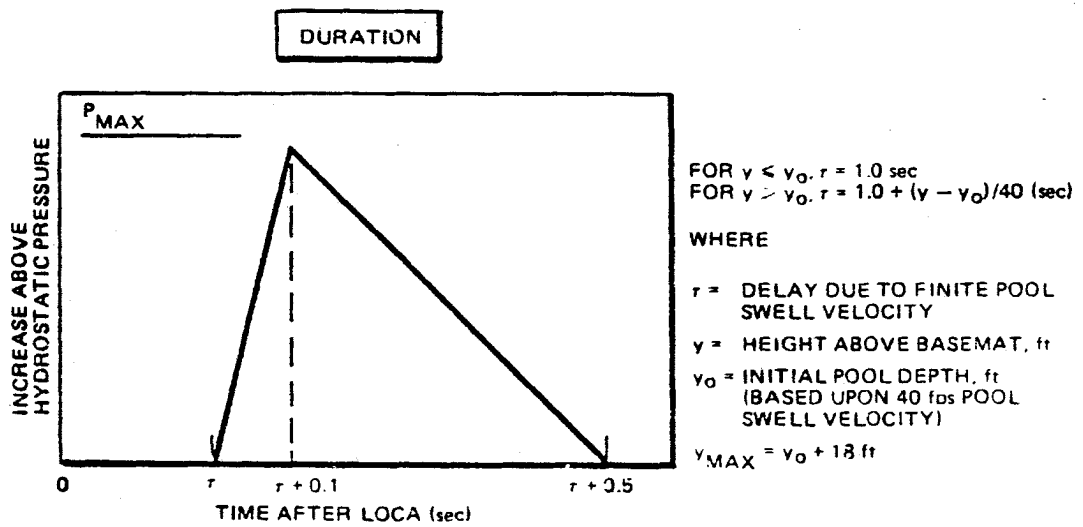
LOSS-OF-COOLANT
ACCIDENT CHRONOLOGY (DBA)



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FIGURE A3.8-16

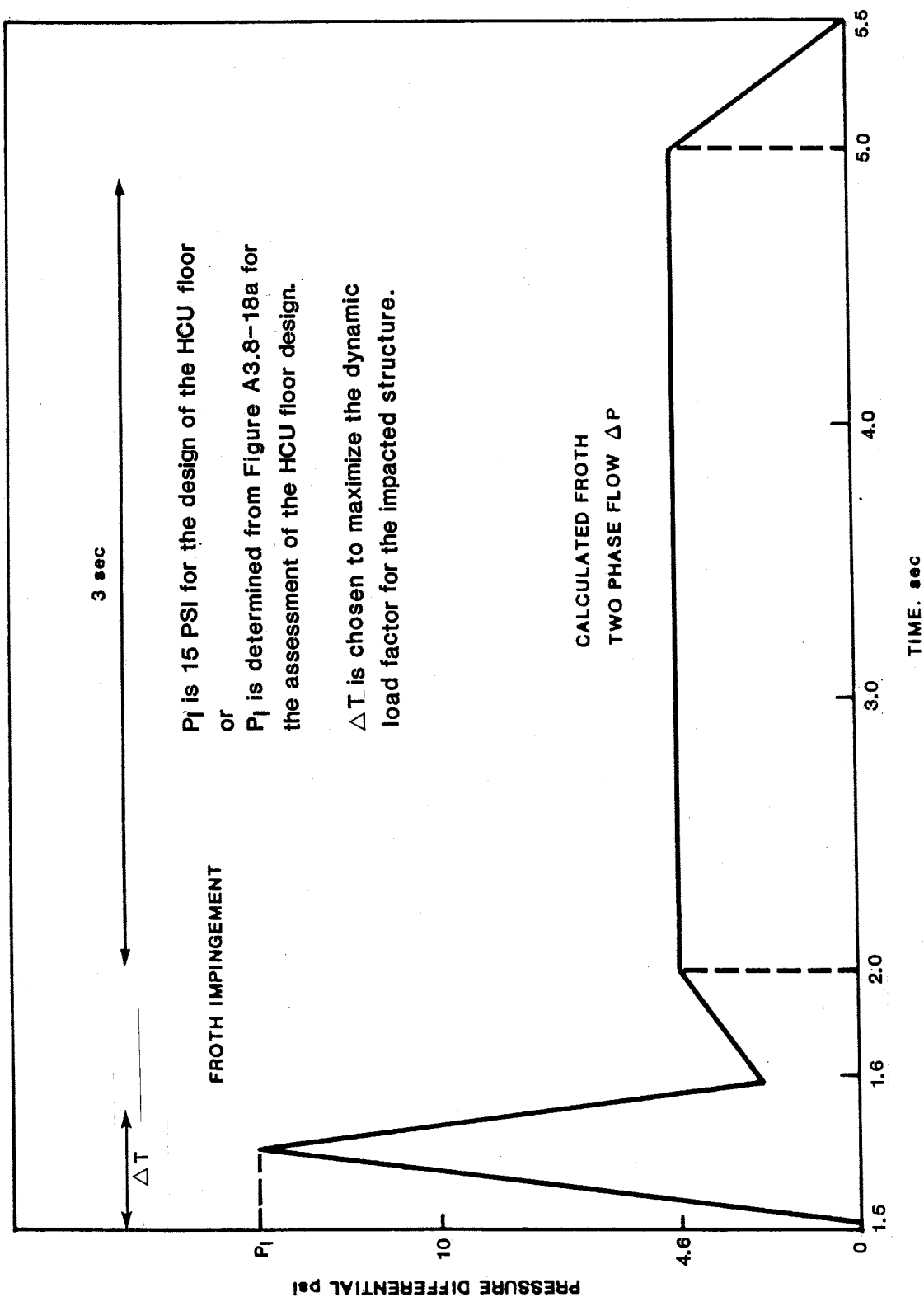
PRESSURE DISTRIBUTION ON SUPPRESSION
POOL WETTED SURFACE



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FIGURE A3.8-17

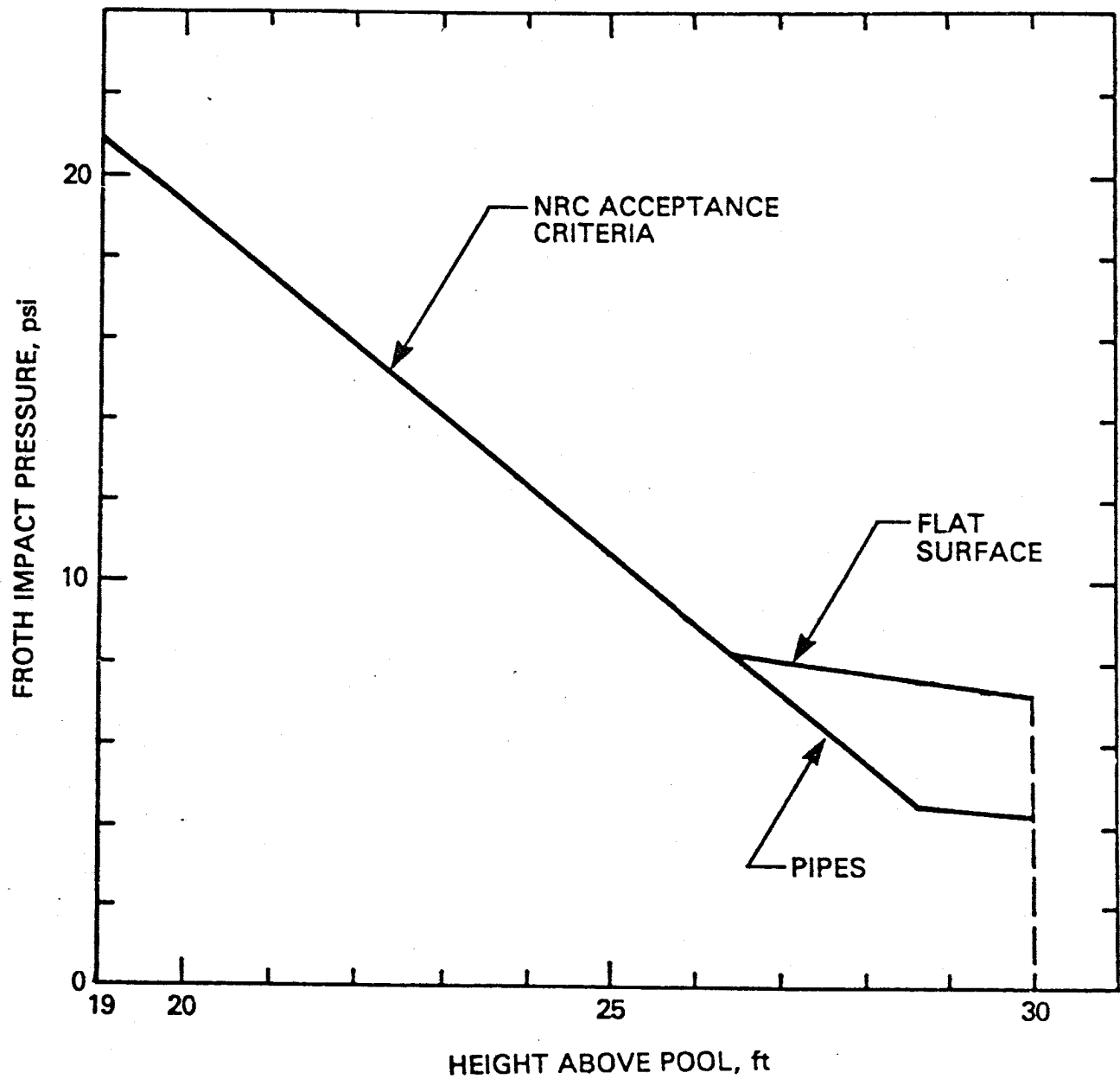
DYNAMIC LOADS ASSOCIATED WITH INITIAL
 BUBBLE FORMATION IN THE POOL



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FIGURE A3.8-18

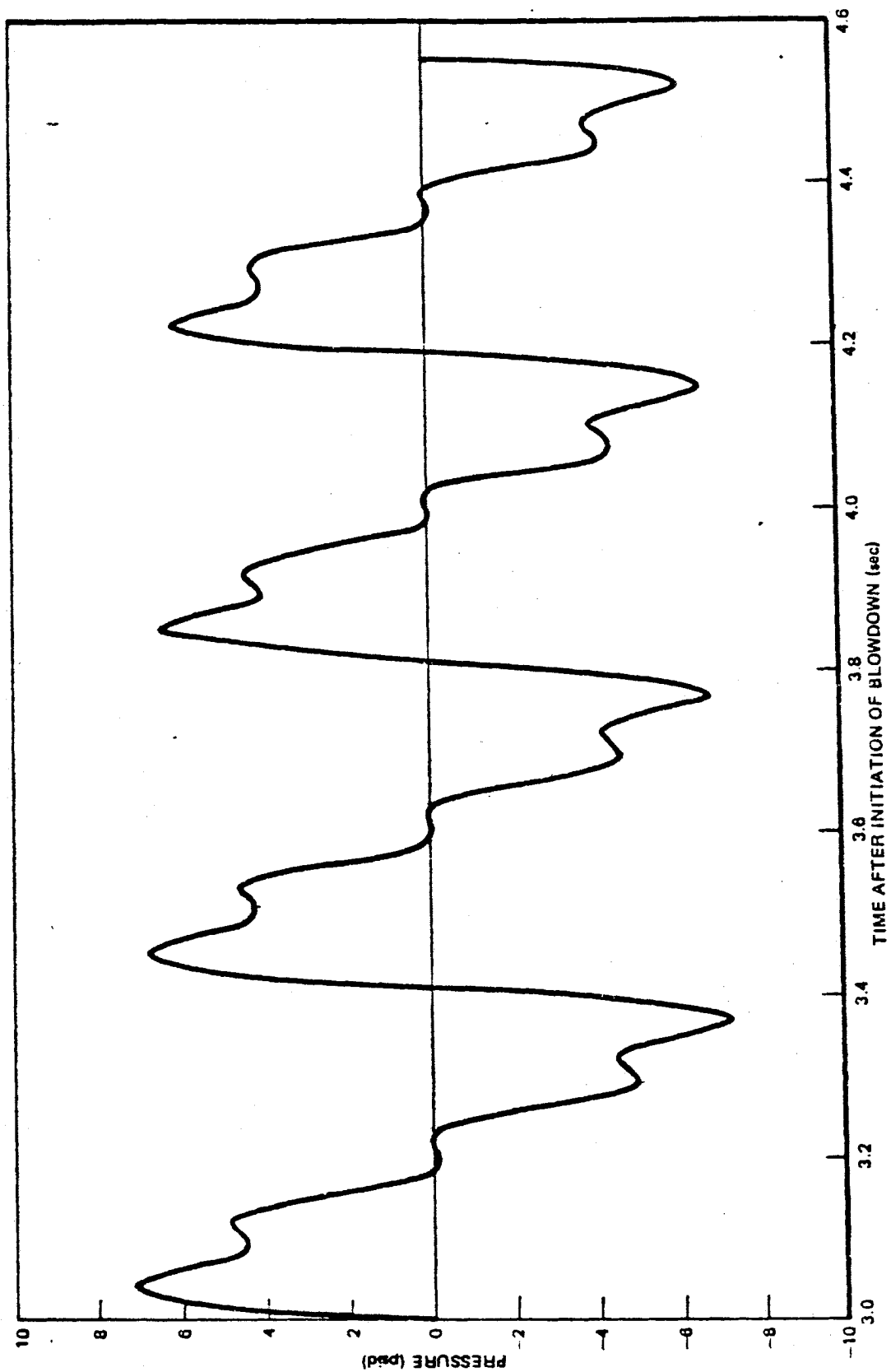
LOADS AT HCU FLOOR ELEVATION DUE TO POOL SWELL FROTH IMPACT AND TWO PHASE FLOW



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FIGURE A3.8-18a

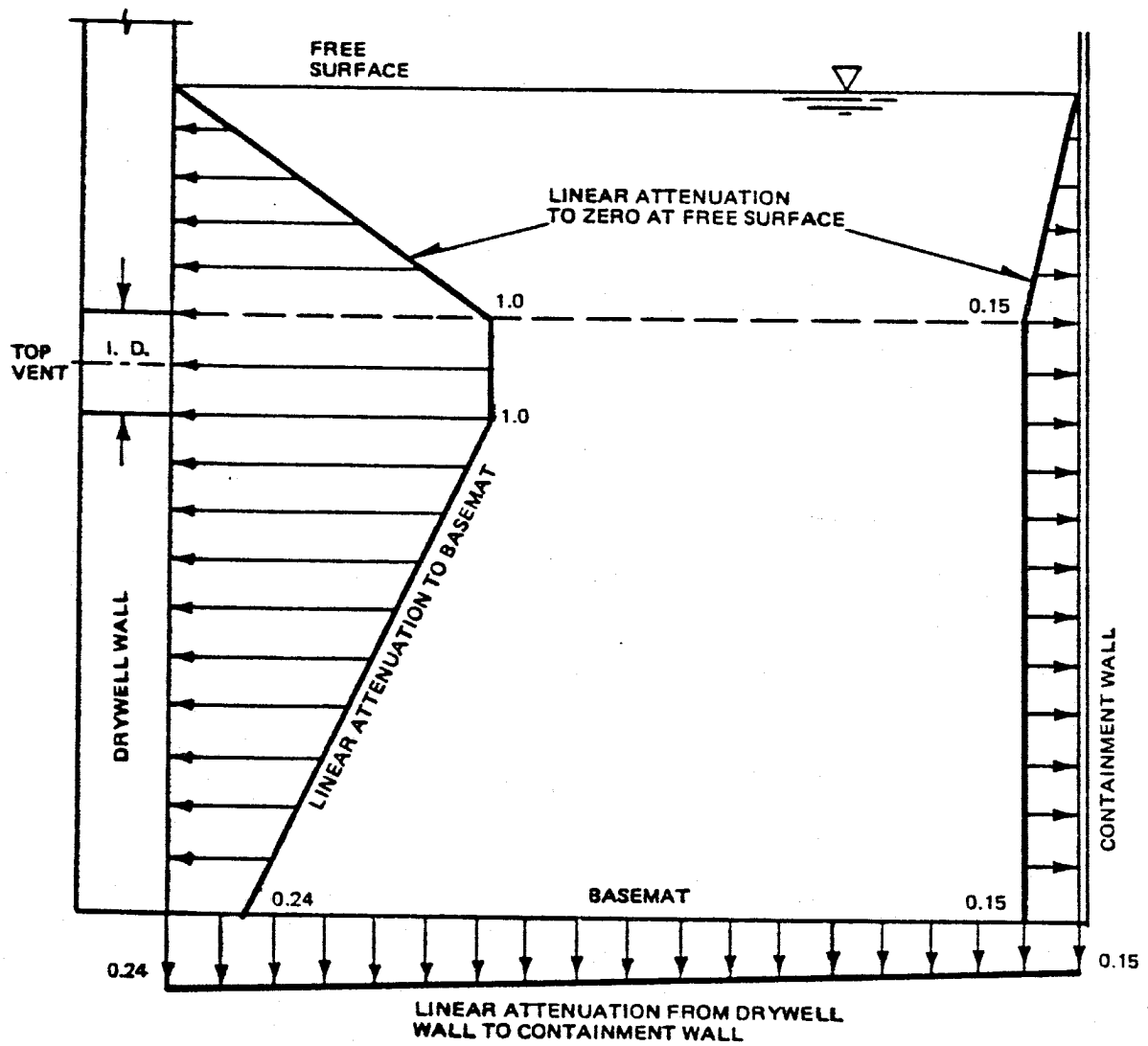
NRC ACCEPTANCE CRITERIA FOR FROTH
IMPACT: PEAK AMPLITUDE OF PRESSURE PULSE



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UPDATED SAFETY ANALYSIS REPORT**

FIGURE A3.8-19

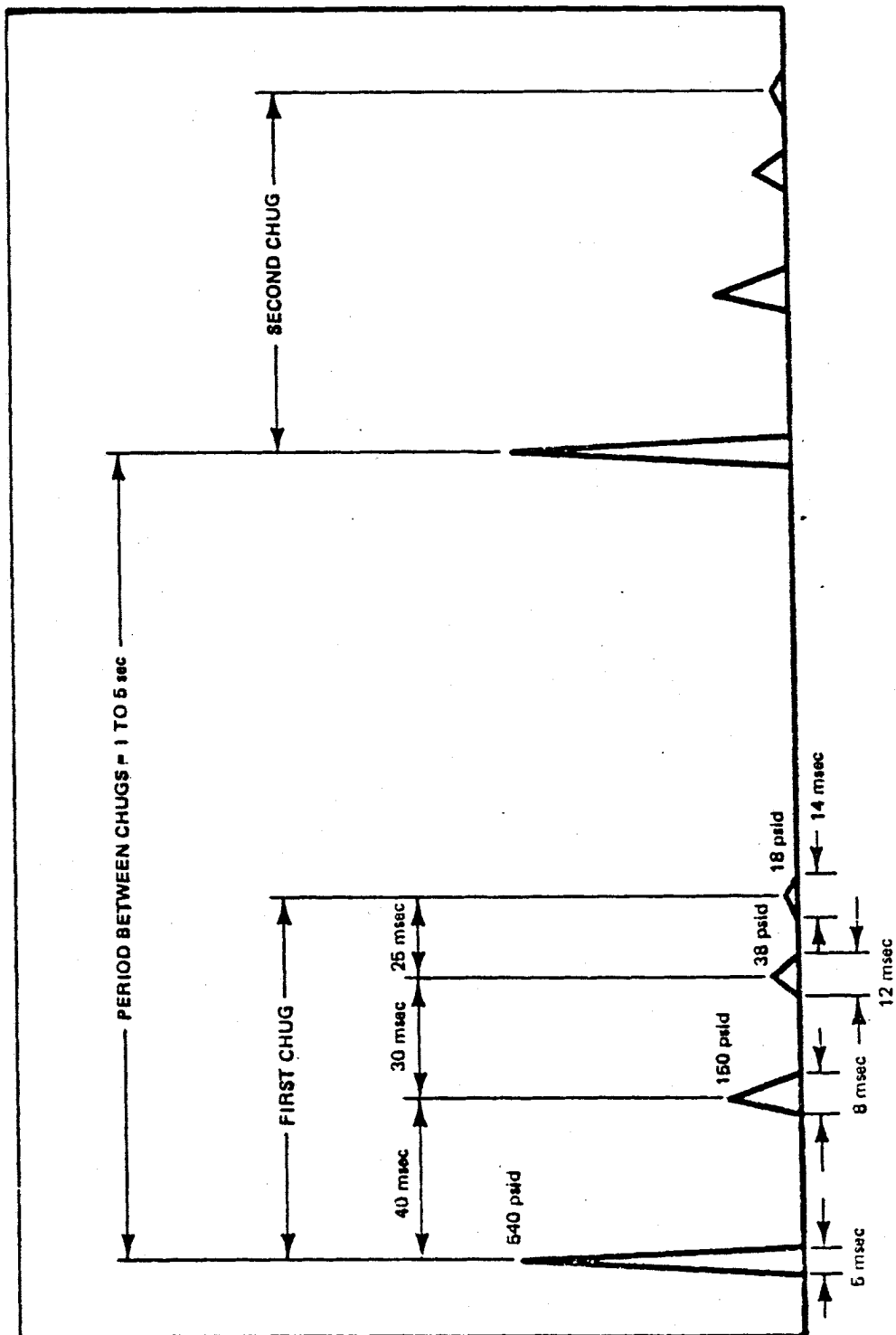
CONDENSATION OSCILLATION FORCING
FUNCTION ON THE DRYWELL WALL O.D.
ADJACENT THE TOP VENT



**CLINTON POWER STATION
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FIGURE A3.8-20

CONDENSATION OSCILLATION LOAD SPATIAL
DISTRIBUTION ON THE DRYWELL WALL,
CONTAINMENT WALL AND BASE MAT

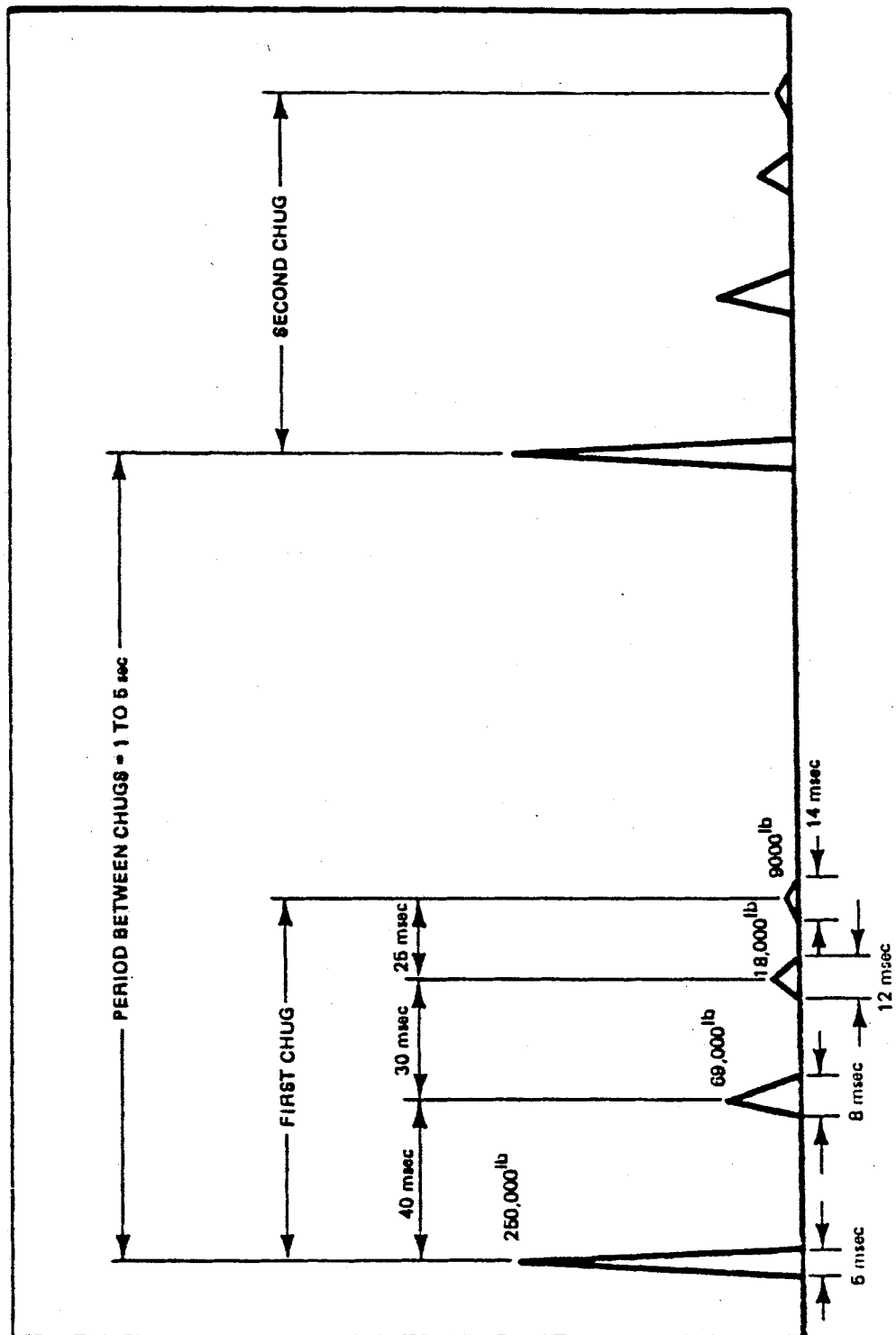


AMPLITUDE (psid)

CLINTON POWER STATION
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FIGURE A3.8-21

PEAK PRESSURE PULSE TRAIN IN TOP
VENT DURING CHUGGING

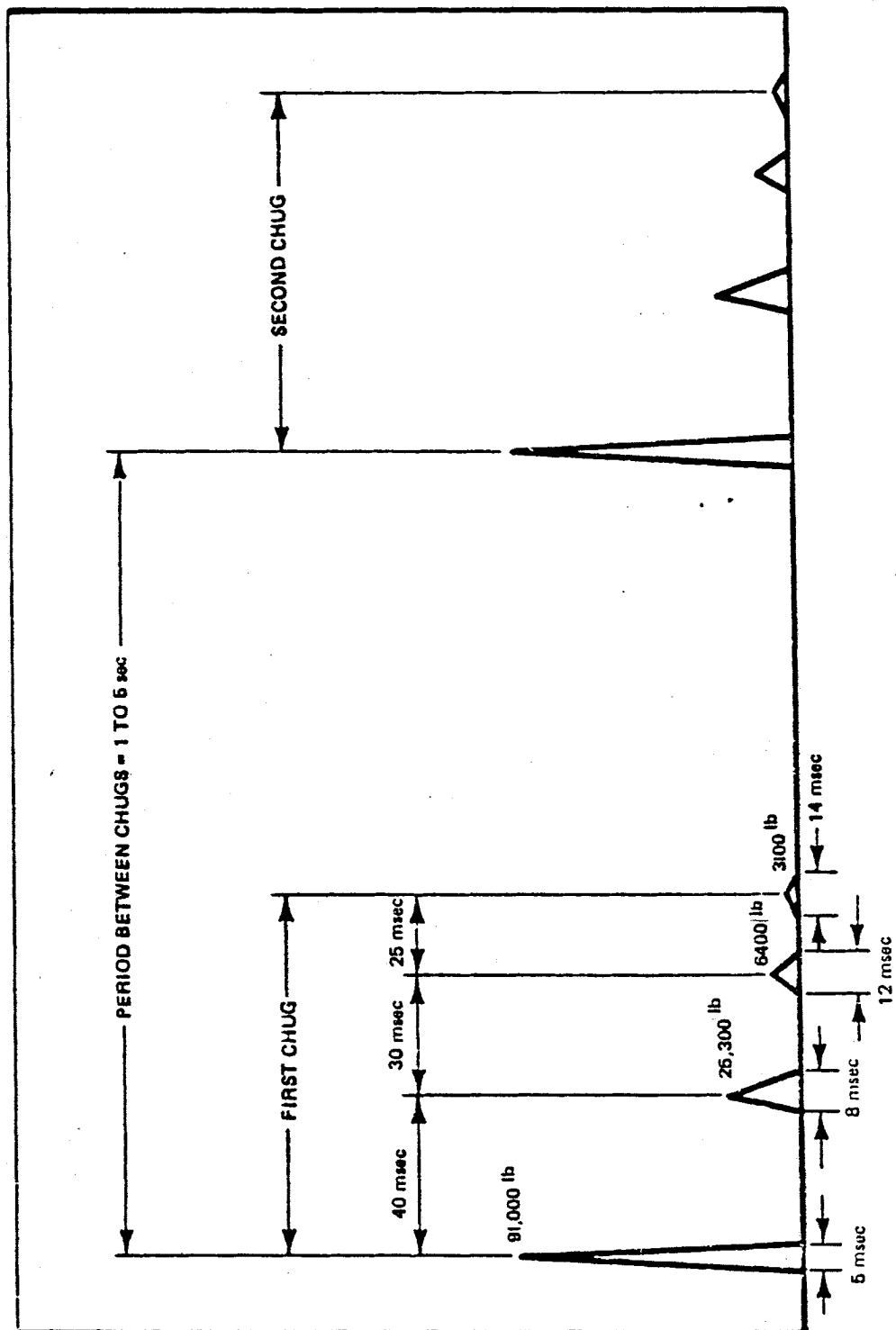


AMPLITUDE (lb)

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE A3.8-22

PEAK FORCE PULSE TRAIN IN TOP
VENT DURING CHUGGING

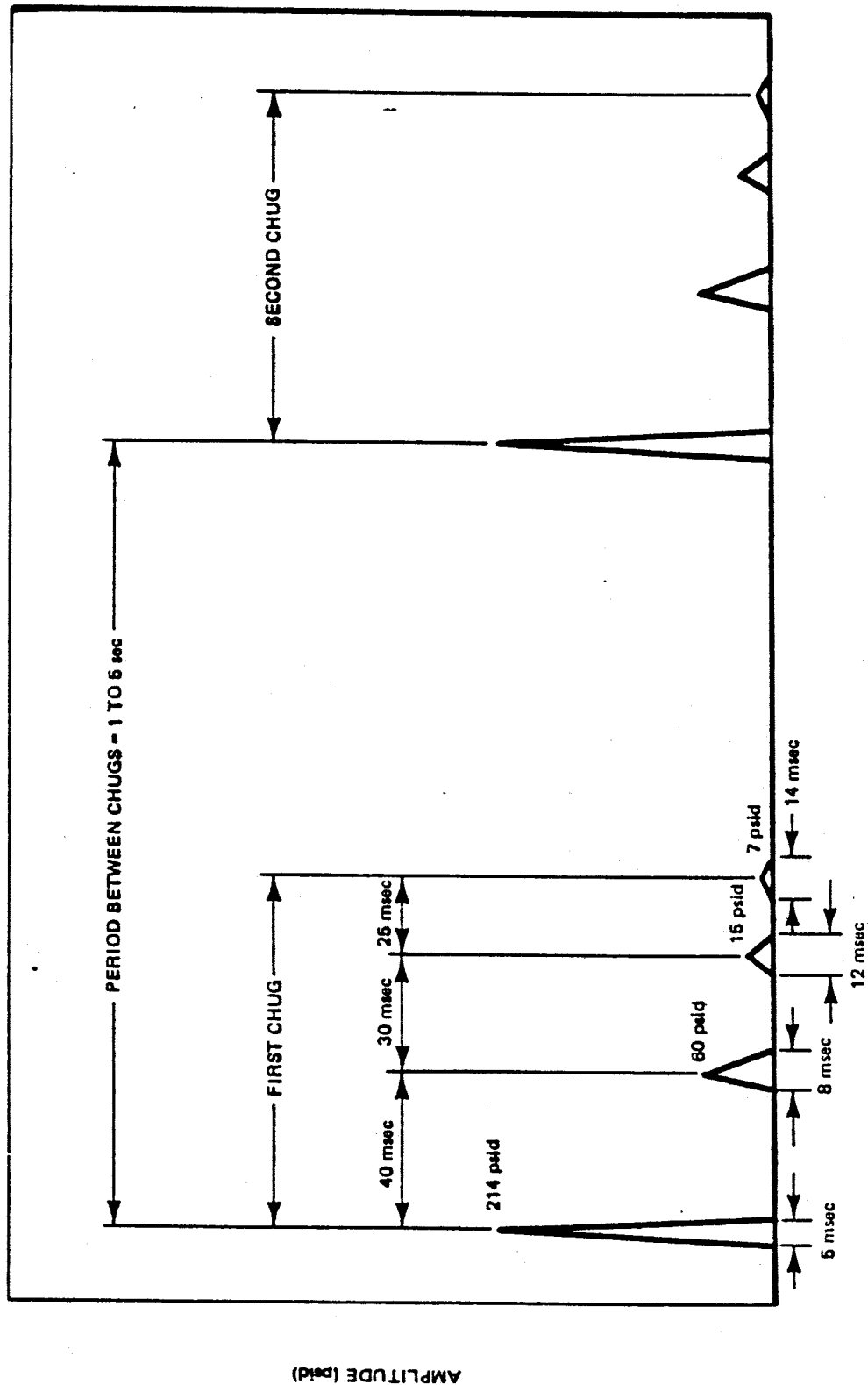


AMPLITUDE (lb)

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE A3.8-23

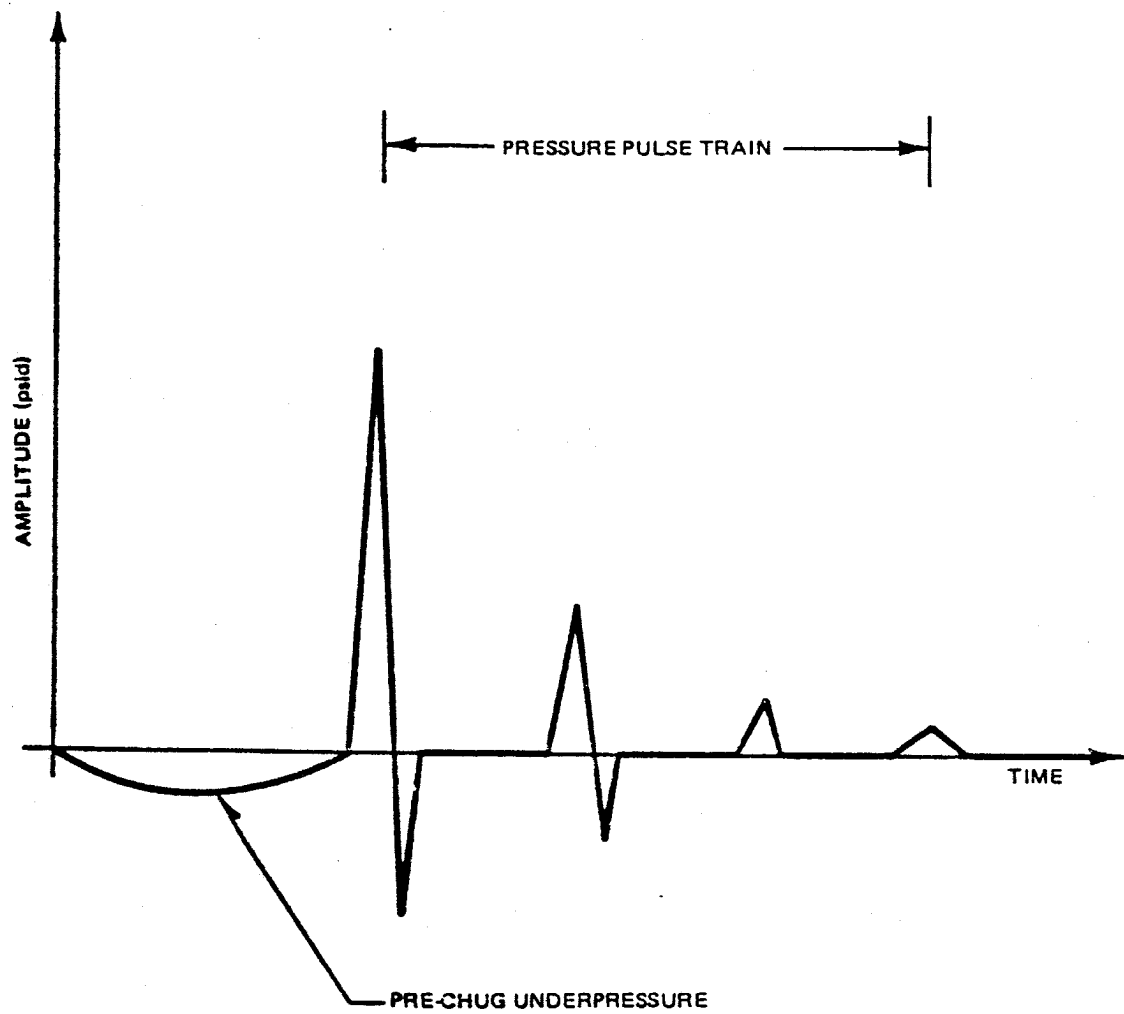
AVERAGE FORCE PULSE TRAIN IN TOP
VENT DURING CHUGGING



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE A3.8-24

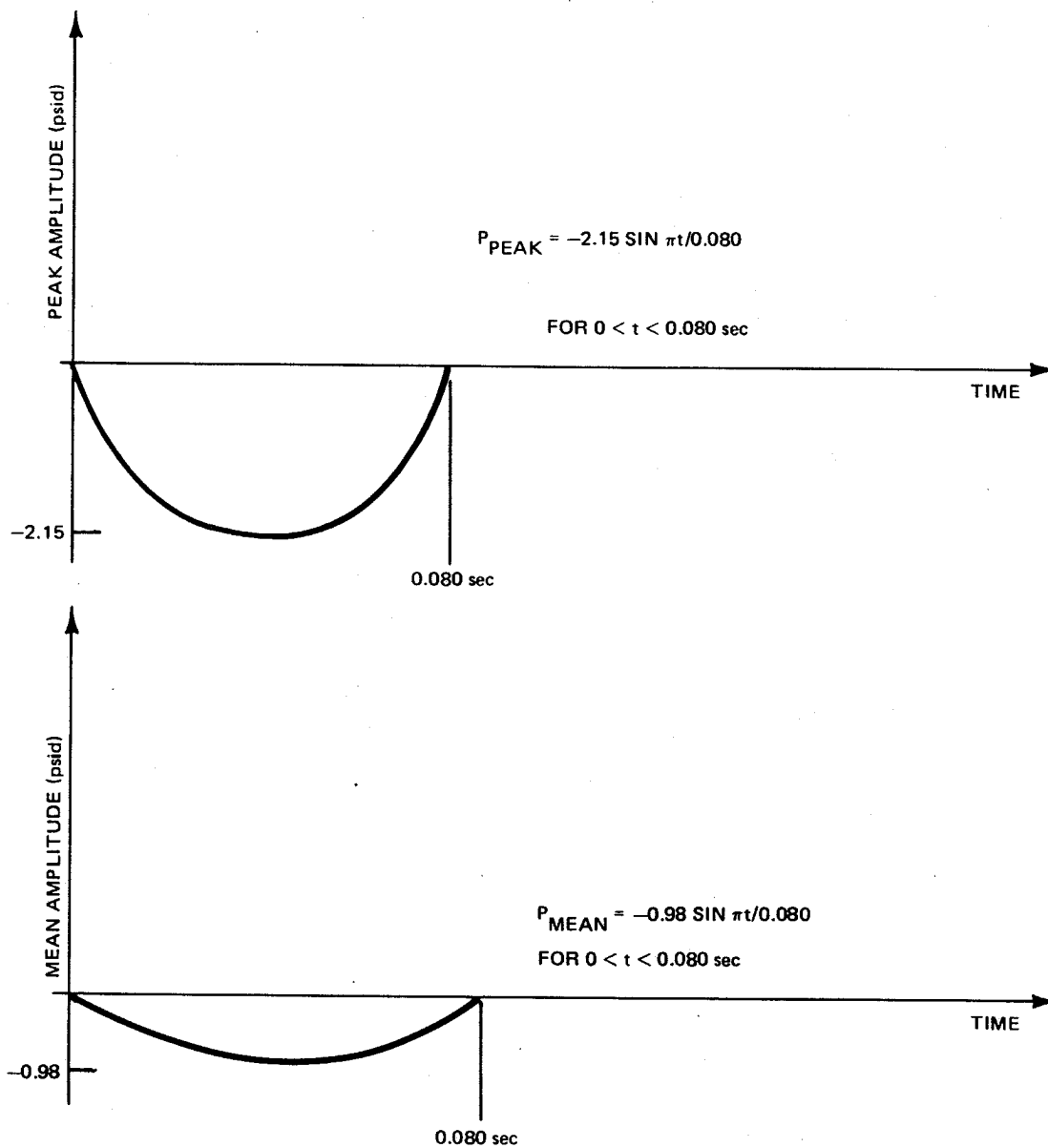
AVERAGE PRESSURE PULSE TRAIN IN TOP
VENT DURING CHUGGING



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FIGURE A3.8-25

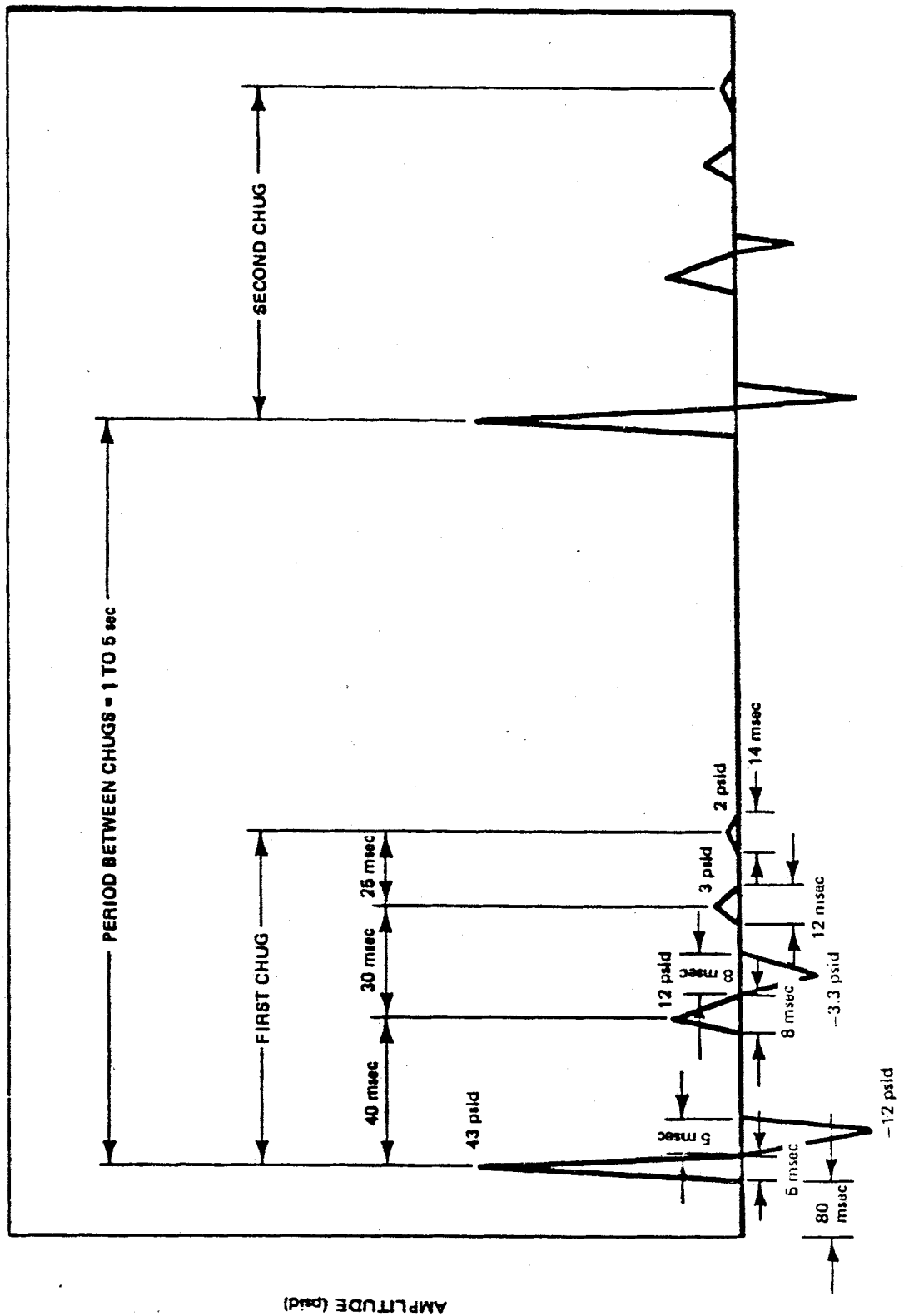
TYPICAL PRESSURE TIME-HISTORY FOR
WEIR ANNULUS DURING CHUGGING



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FIGURE A3.8-26

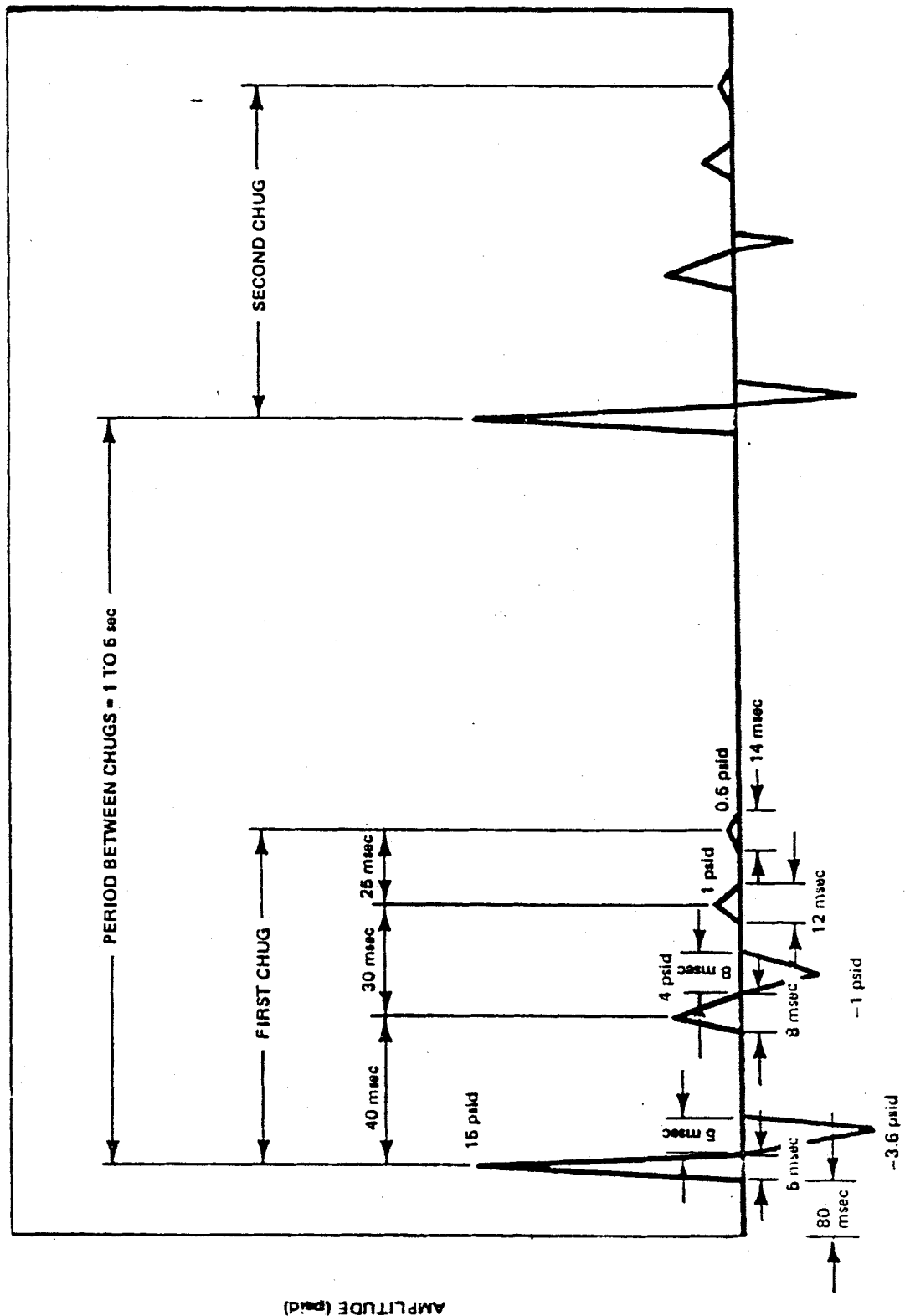
UNDERPRESSURE DISTRIBUTION ON THE WEIR
WALL AND DRYWELL I.D. WALL
DURING CHUGGING



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UPDATED SAFETY ANALYSIS REPORT

FIGURE A3.8-27

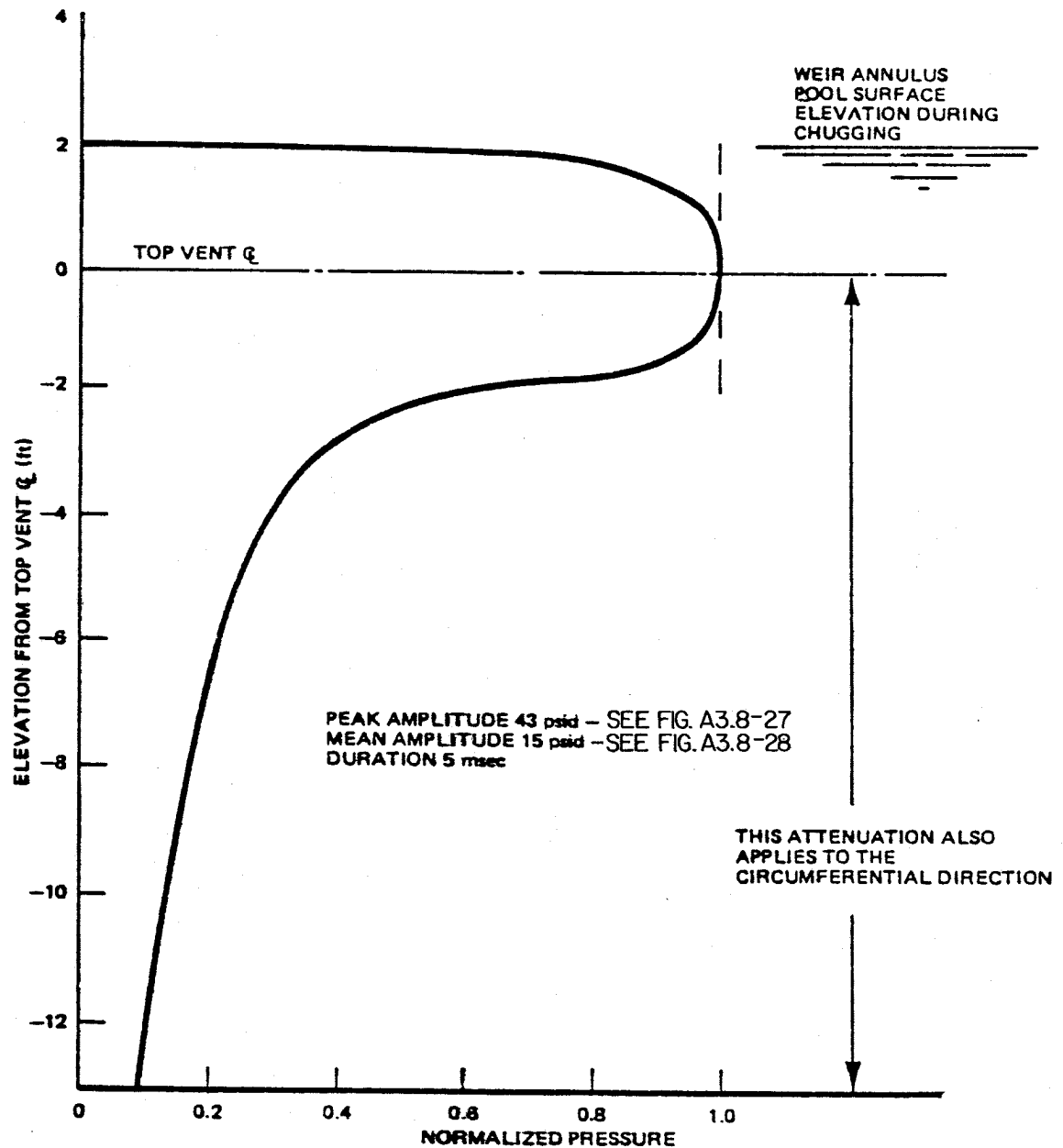
PEAK PRESSURE PULSE TRAIN ON THE
WEIR WALL AND DRYWELL I.D.
WALL DURING CHUGGING



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FIGURE A3.8-28

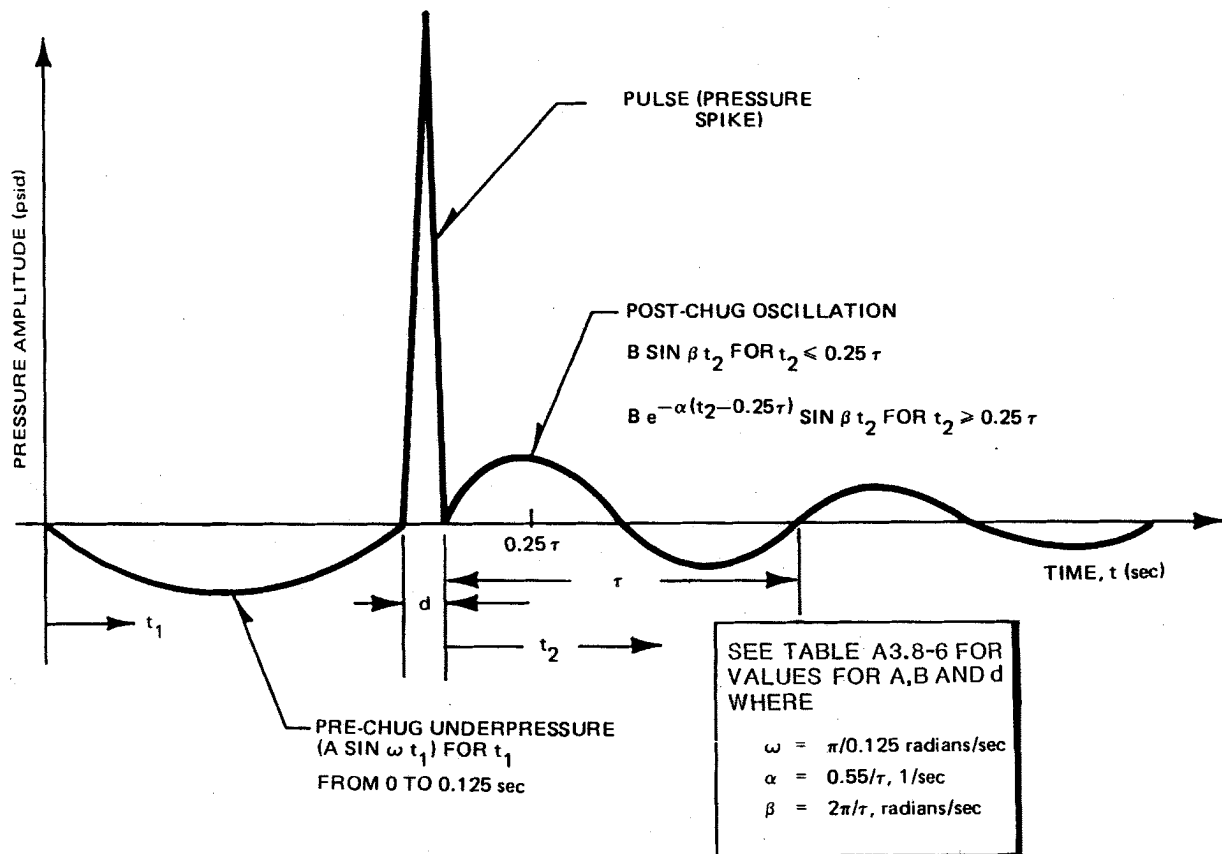
MEAN PRESSURE PULSE TRAIN ON THE WEIR
WALL AND DRYWELL I.D. WALL
DURING CHUGGING



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FIGURE A3.8-29

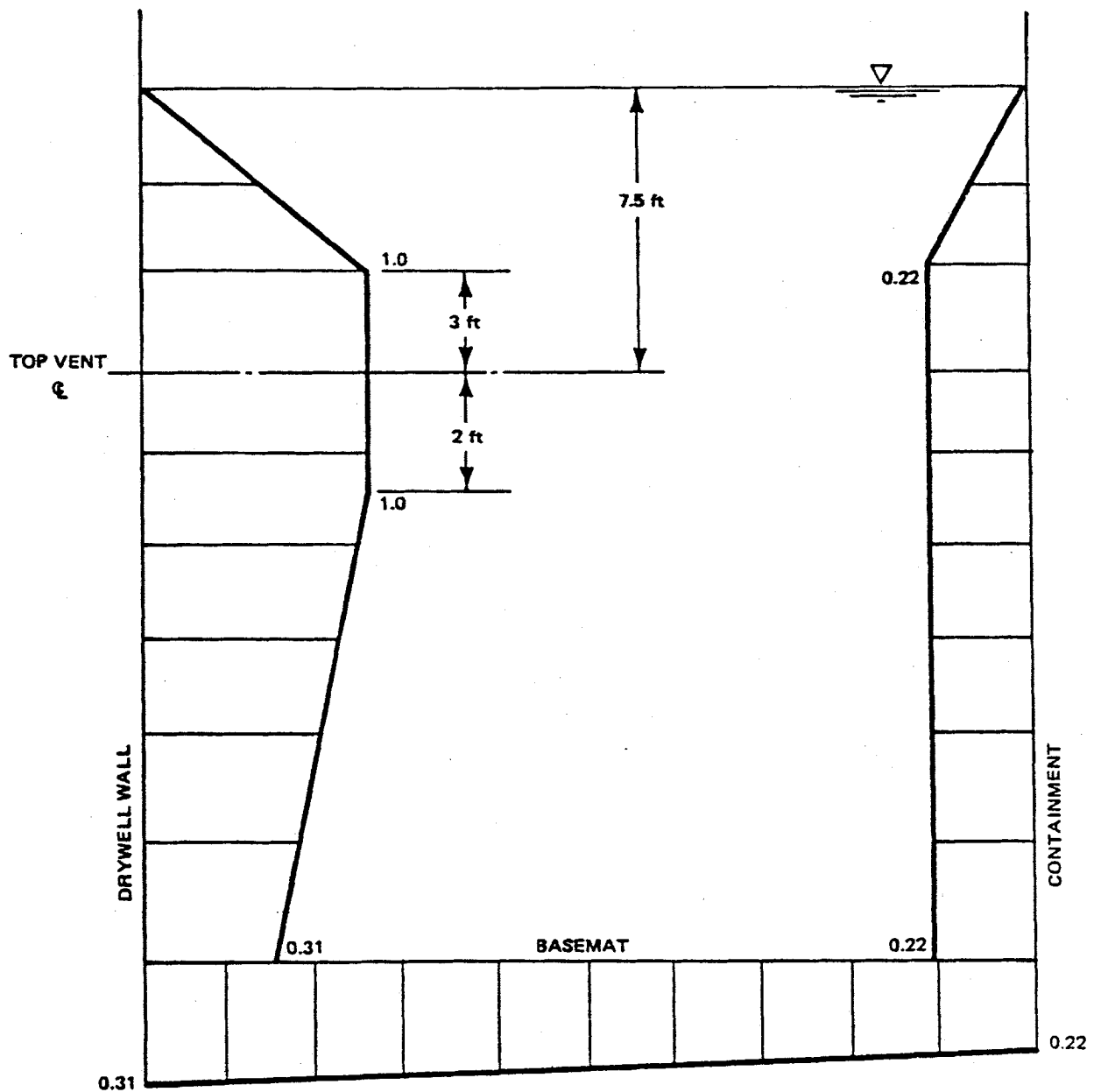
NORMALIZED WEIR ANNULUS PRESSURE
PULSE ATTENUATION



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FIGURE A3.8-30

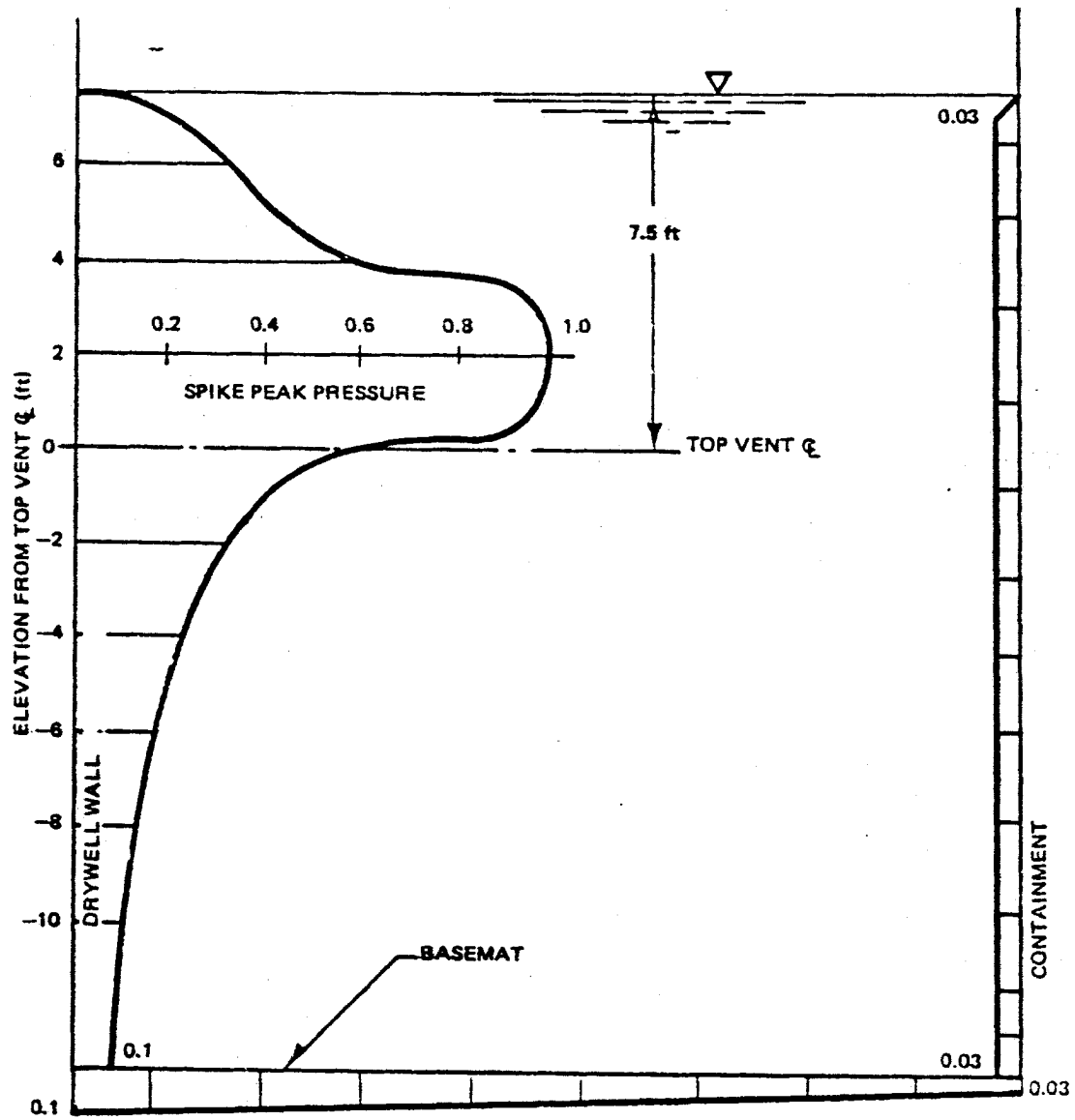
TYPICAL PRESSURE TIME-HISTORY ON
 THE POOL BOUNDARY DURING CHUGGING



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UPDATED SAFETY ANALYSIS REPORT

FIGURE A3.8-31

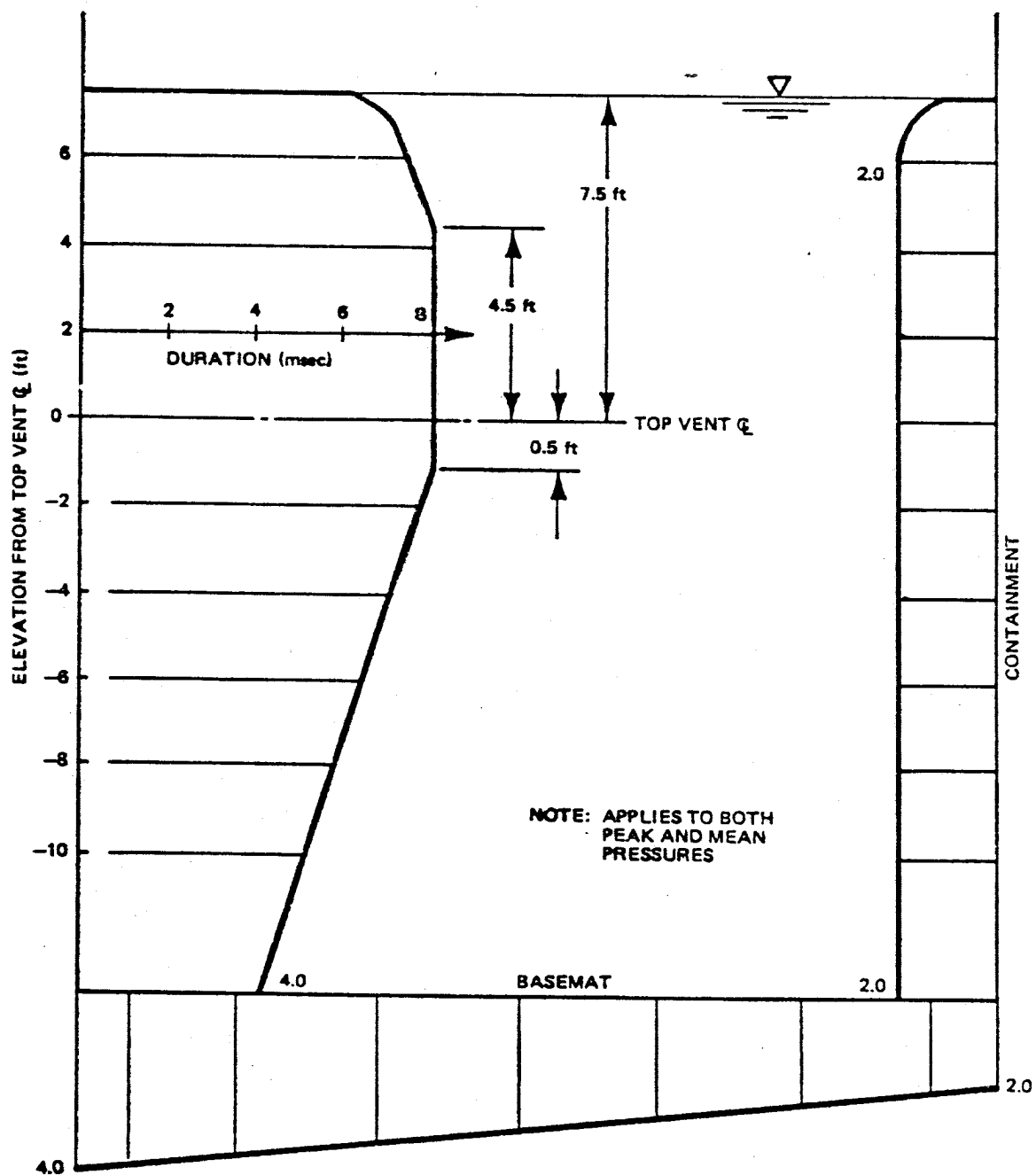
SUPPRESSION POOL CHUGGING NORMALIZED
PEAK UNDERPRESSURE ATTENUATION



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UPDATED SAFETY ANALYSIS REPORT

FIGURE A3.8-32

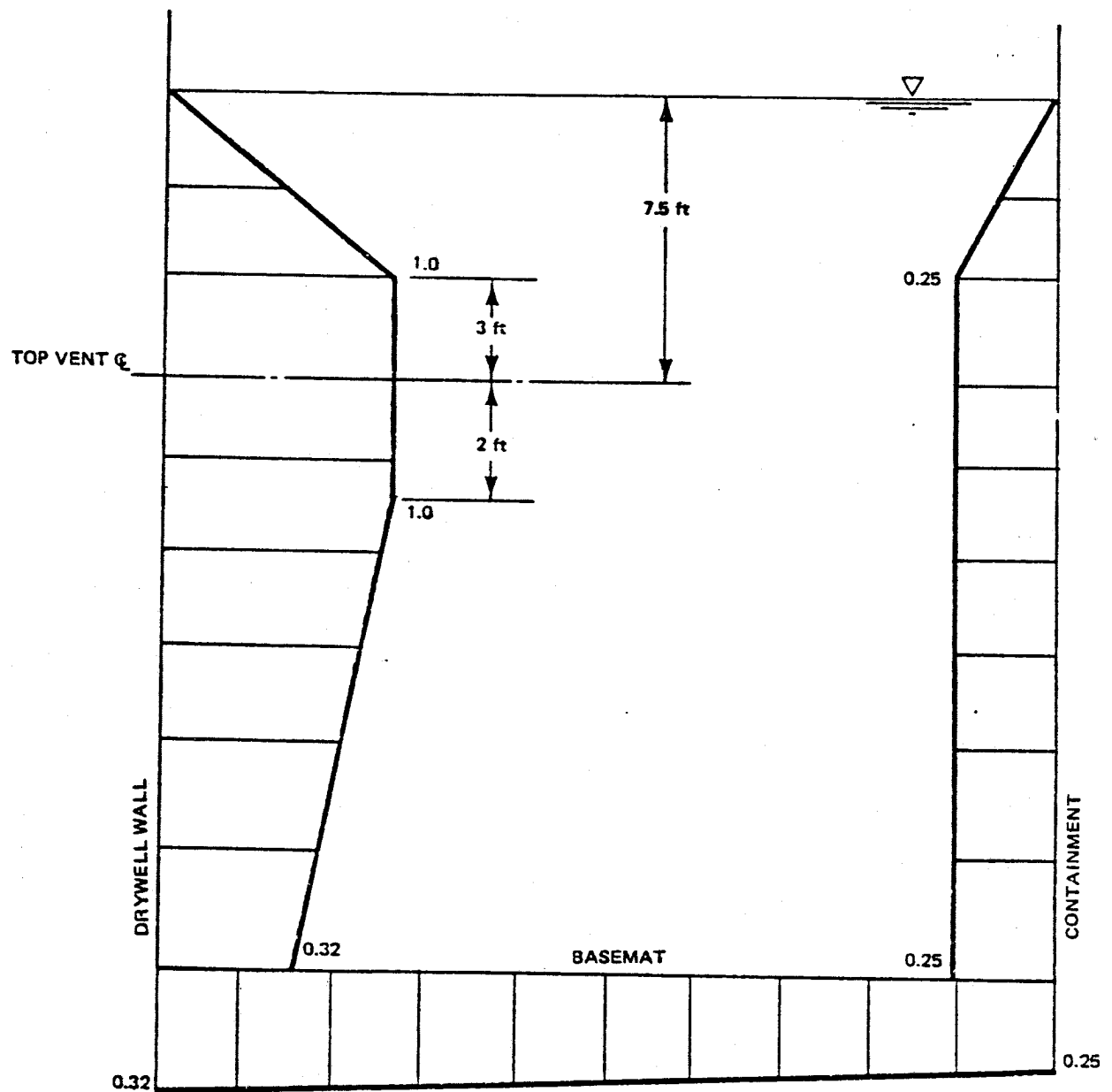
SUPPRESSION POOL CHUGGING
NORMALIZED SPIKE ATTENUATION



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FIGURE A3.8-33

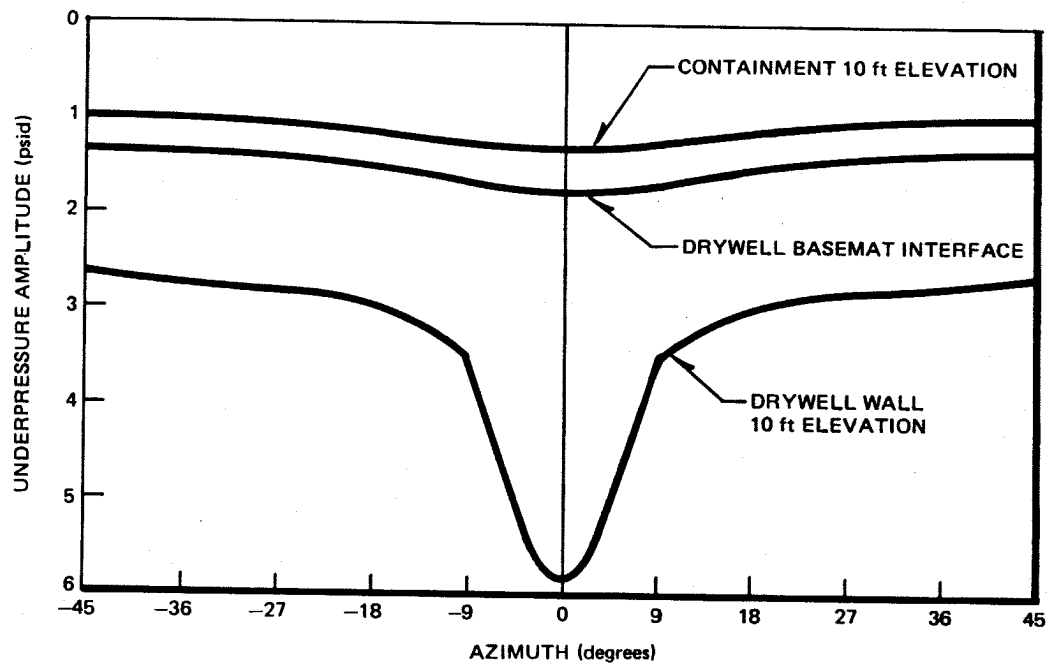
SUPPRESSION POOL CHUGGING SPIKE
DURATION "d" AS A FUNCTION OF LOCATION
IN THE POOL



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FIGURE A3.8-34

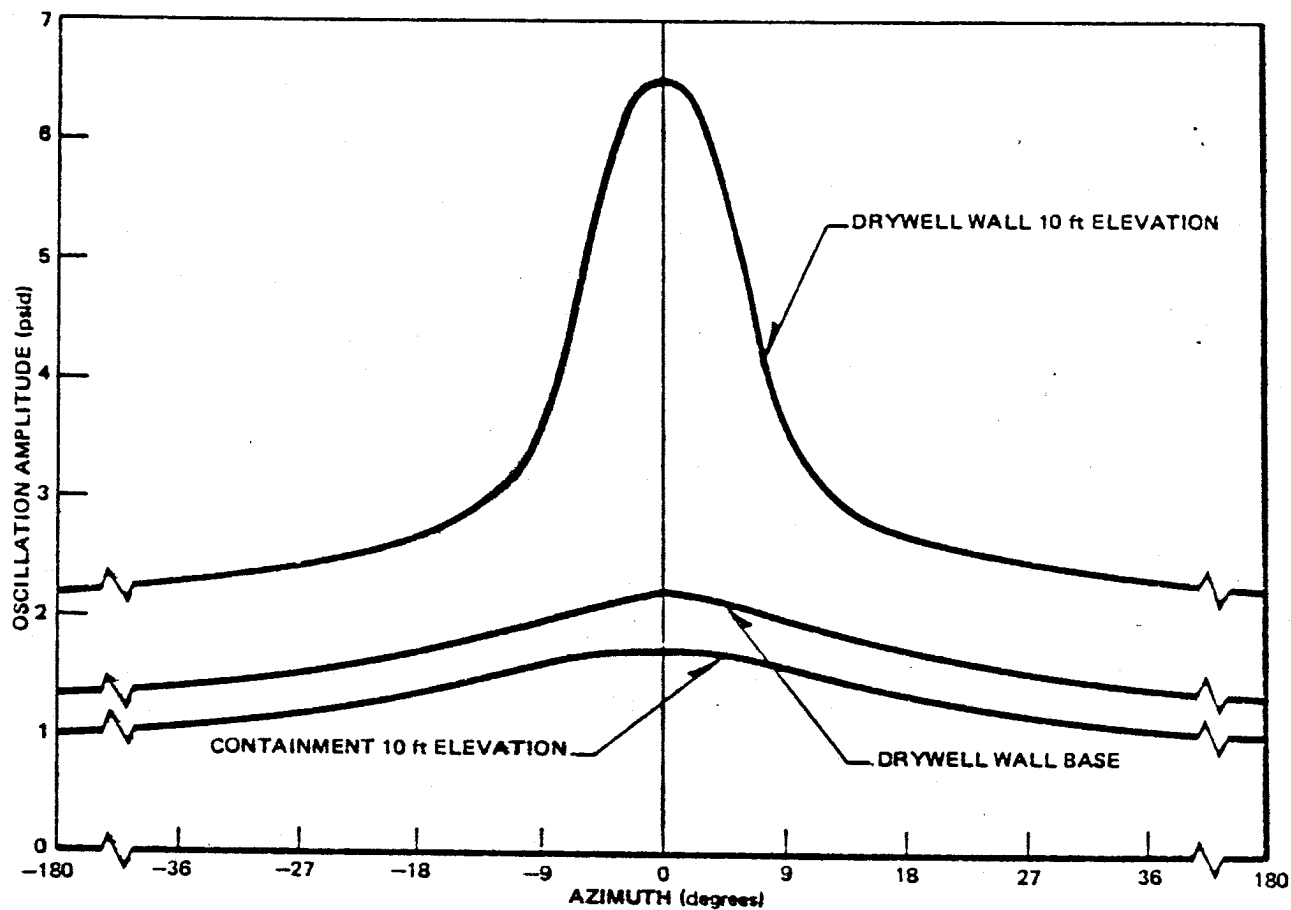
SUPPRESSION POOL CHUGGING NORMALIZED
PEAK POST CHUG OSCILLATIONS



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UPDATED SAFETY ANALYSIS REPORT

FIGURE A3.8-35

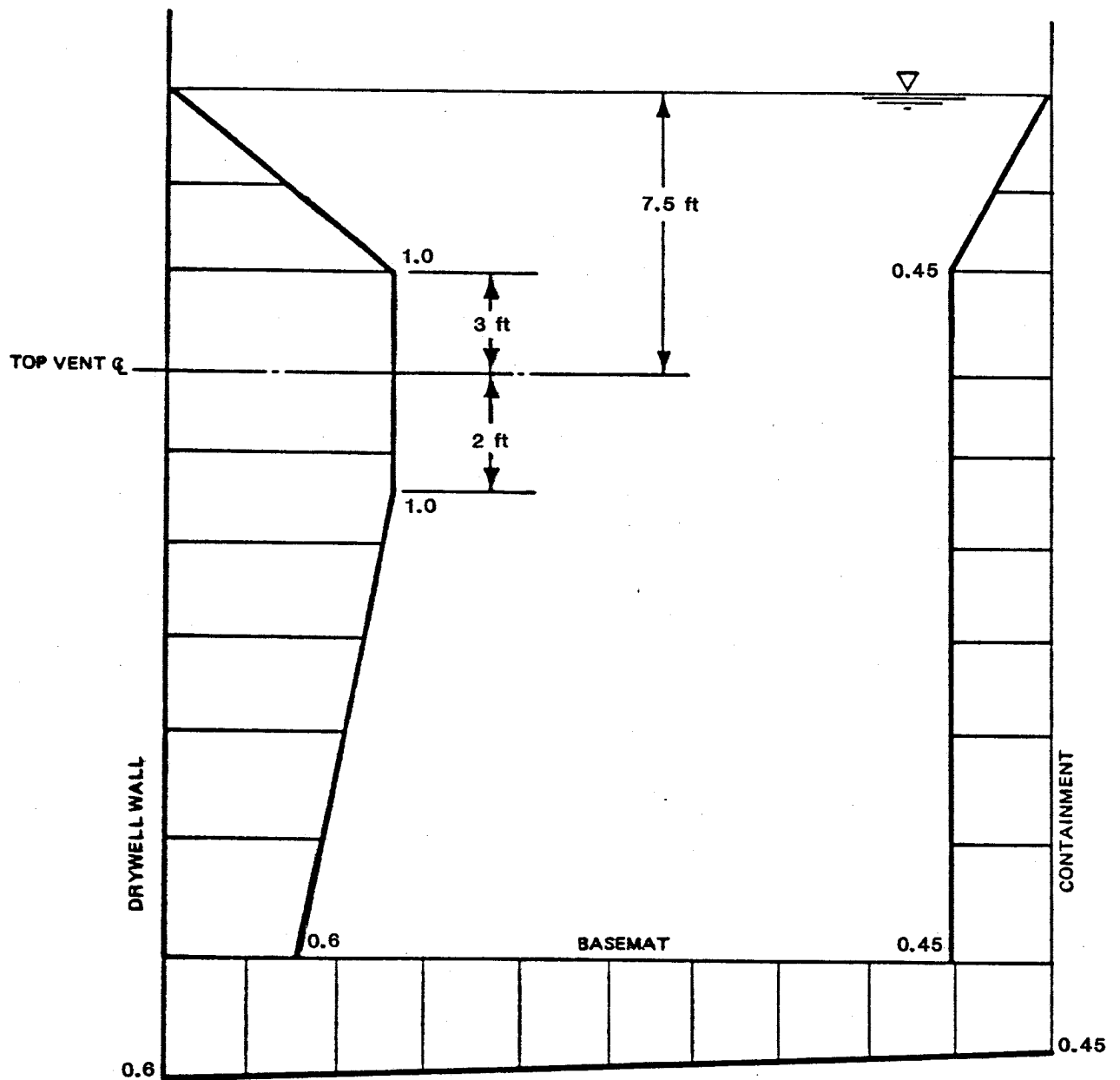
CIRCUMFERENTIAL UNDERPRESSURE
AMPLITUDE ATTENUATION



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE A3.8-36

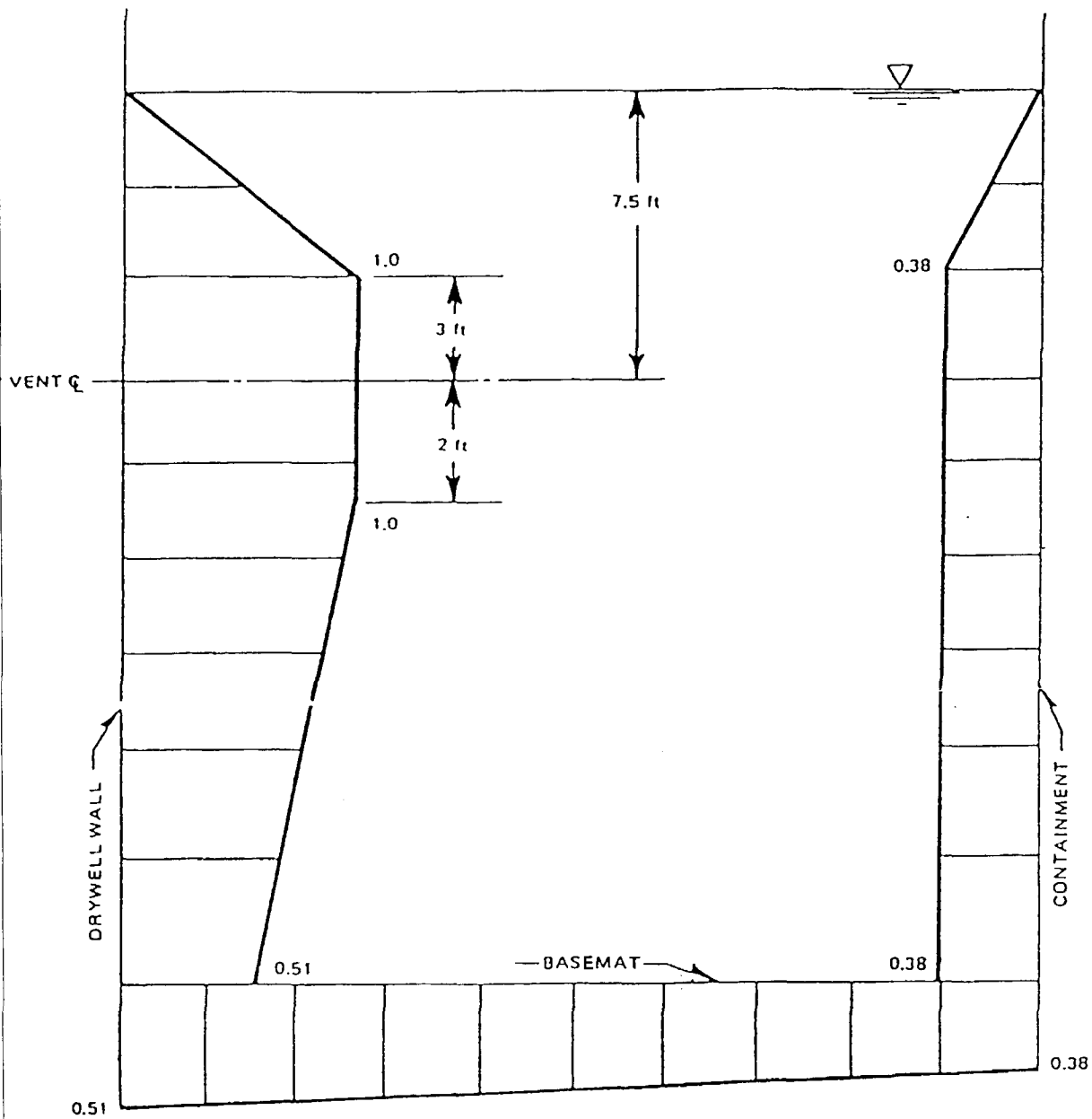
CIRCUMFERENTIAL POST CHUG OSCILLATION
AMPLITUDE ATTENUATION



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

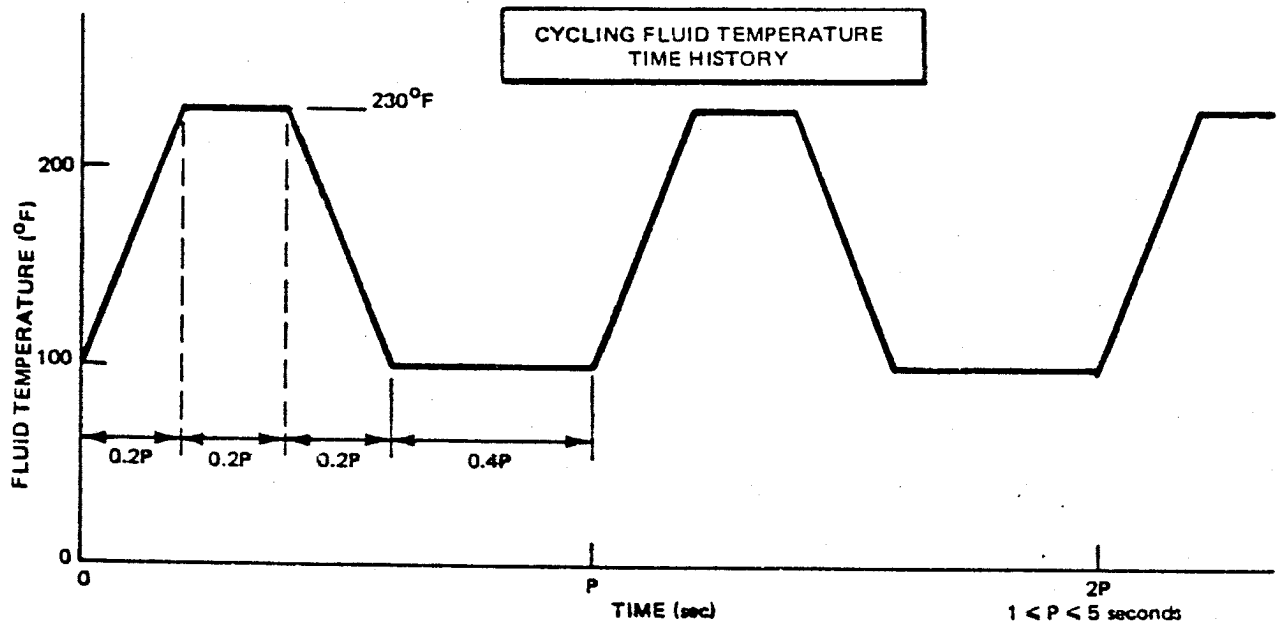
FIGURE A3.8-37

SUPPRESSION POOL CHUGGING
NORMALIZED POST CHUG
OSCILLATIONS ATTENUATION



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

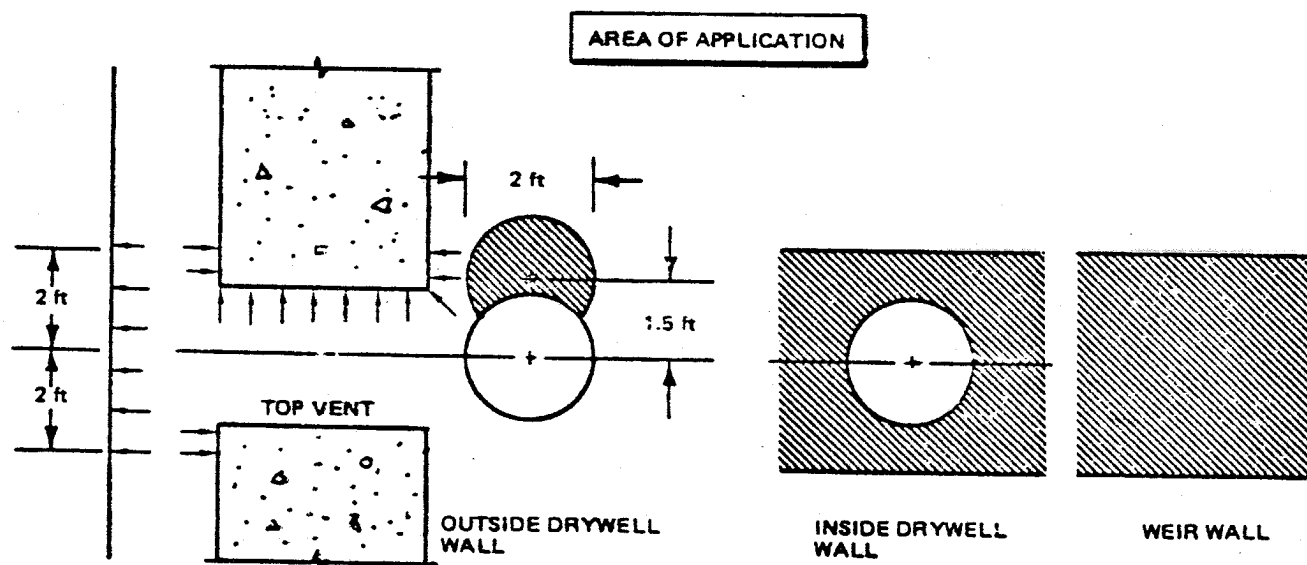
FIGURE A3.8-37A
SUPPRESSION POOL CHUGGING
NORMALIZED POST MEAN
UNDERPRESSURE ATTENUATION



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FIGURE A3.8-38

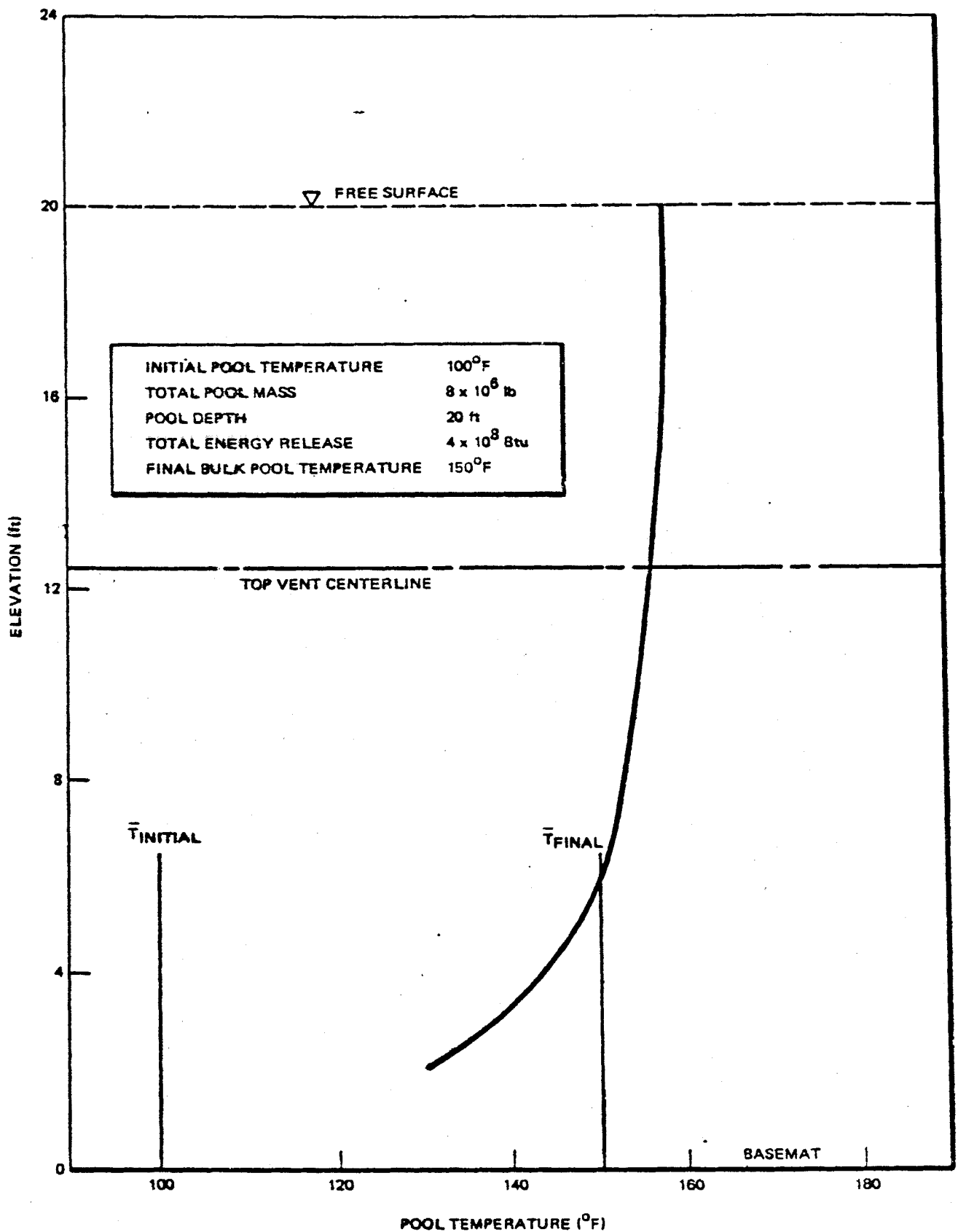
DRYWELL TOP VENT CYCLIC TEMPERATURE
PROFILE AND AREA OF APPLICATION
DURING CHUGGING



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UPDATED SAFETY ANALYSIS REPORT

FIGURE A3.8-39

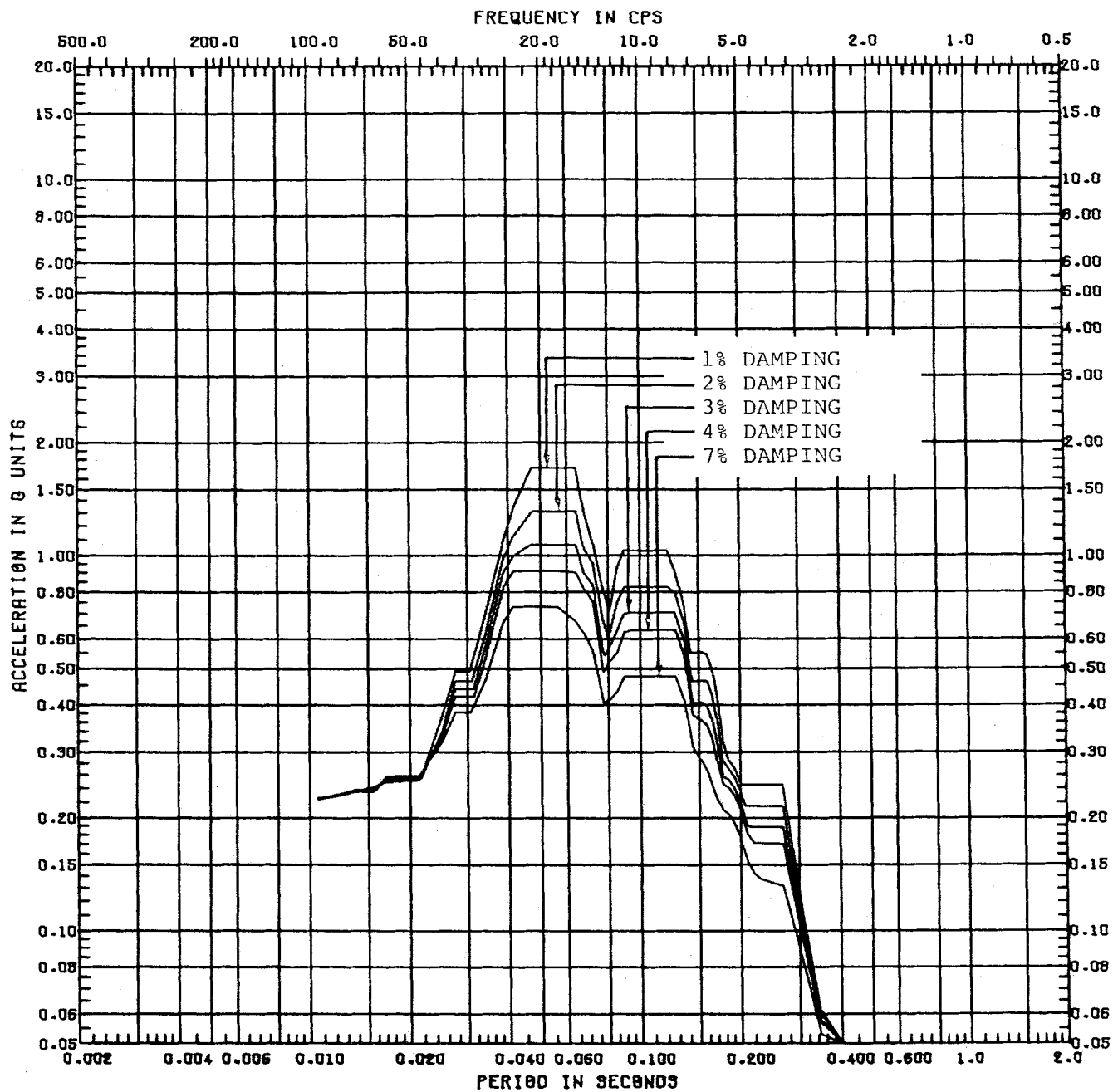
DRYWELL TOP VENT CYCLIC TEMPERATURE
PROFILE DURING CHUGGING



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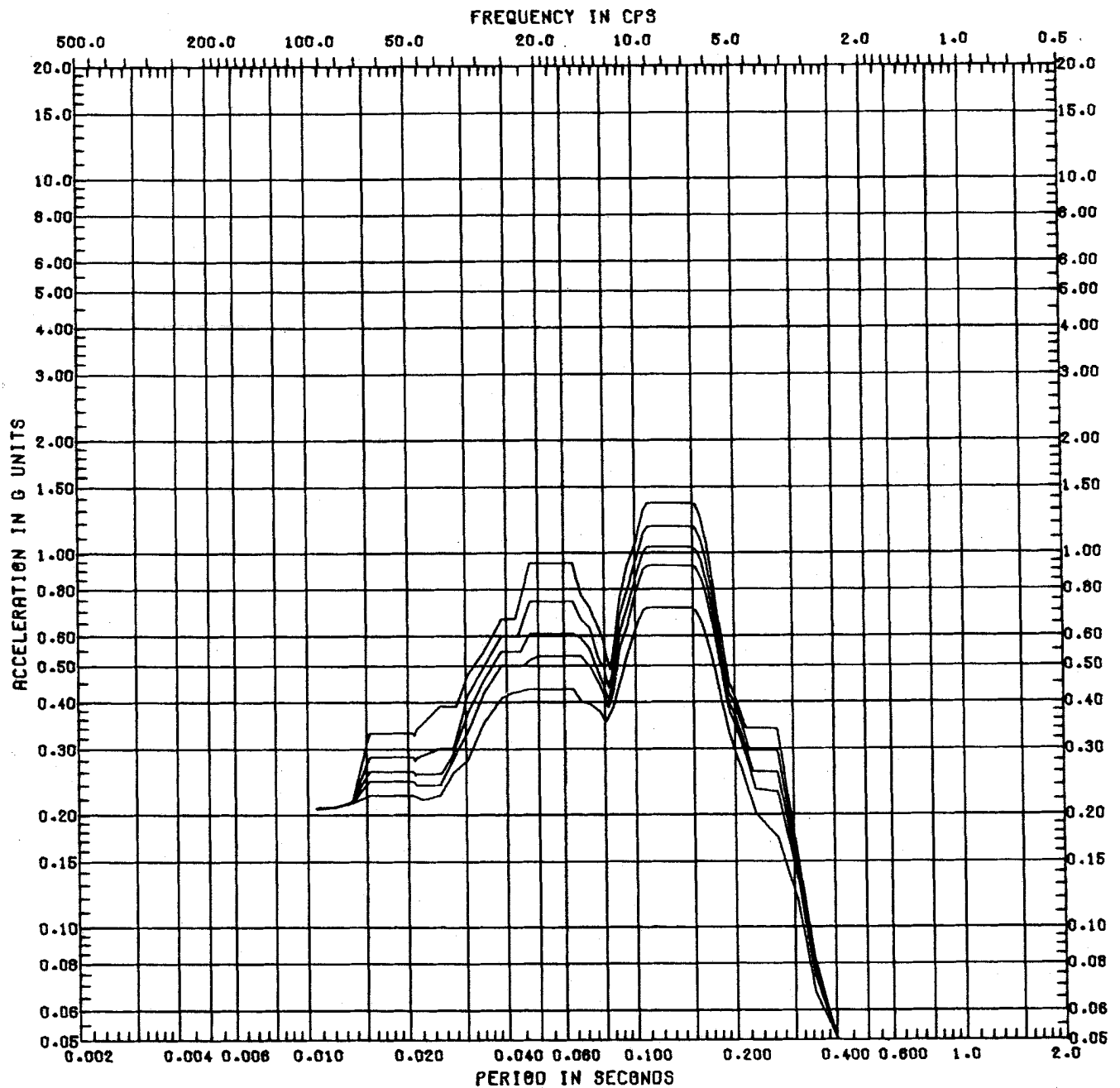
FIGURE A3.8-40

SUPPRESSION POOL TEMPERATURE
PROFILE FOR LARGE BREAKS



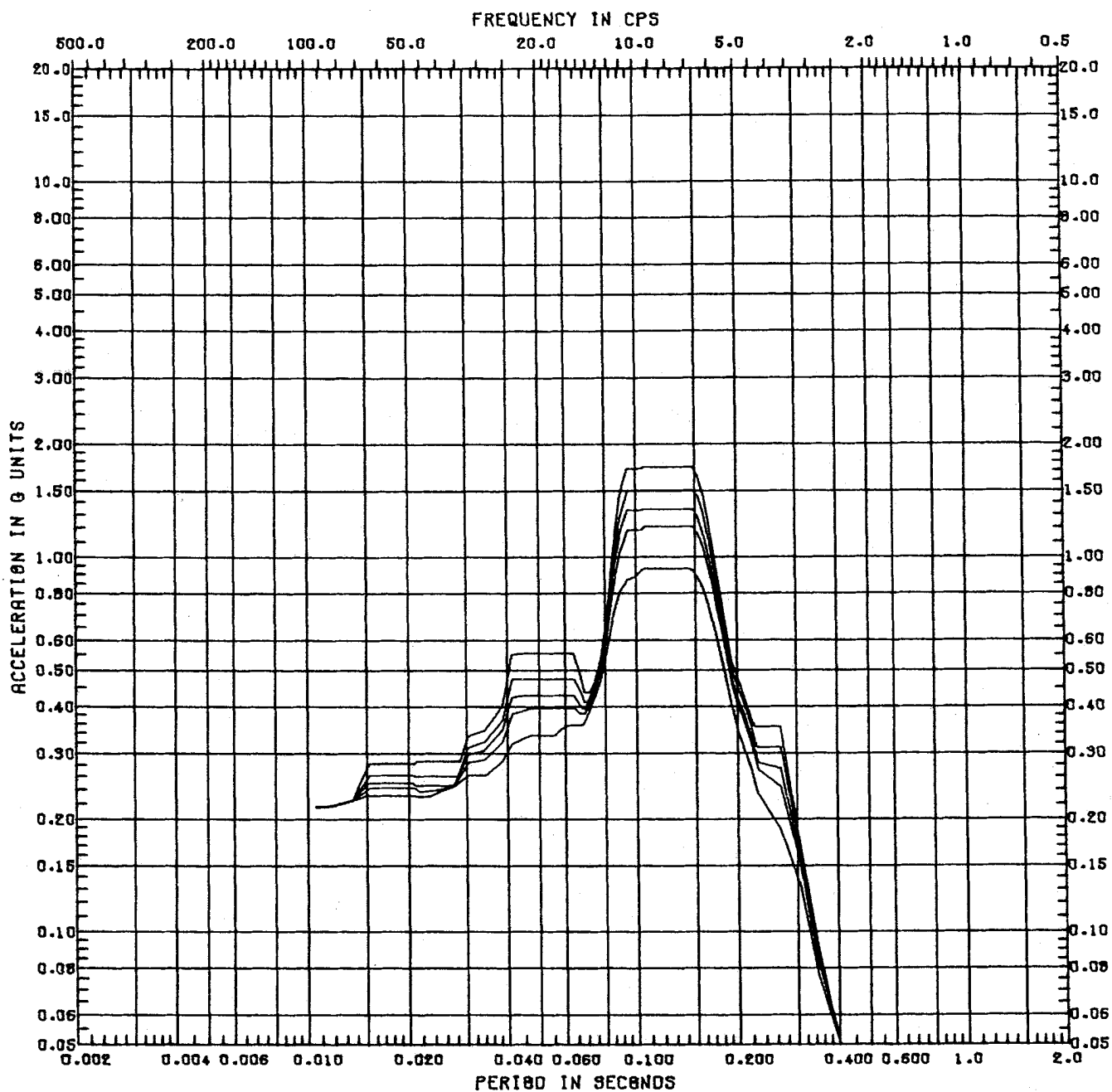
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FIGURE A3.8-41
SRV QUENCHER ALL VALVE
VERTICAL RESPONSE SPECTRA
FOR CONTAINMENT WALL,
ELEVATION 712'-0"



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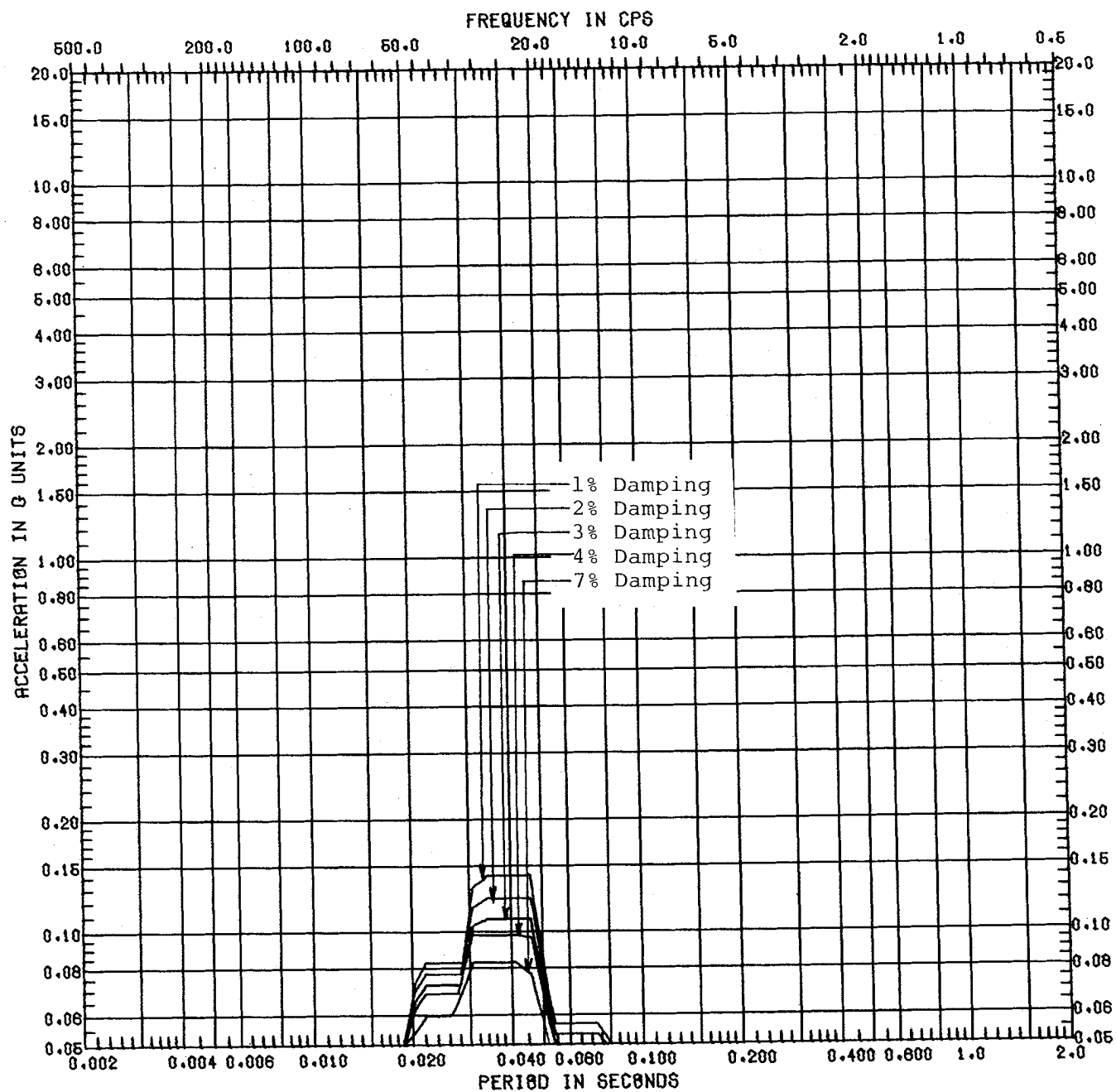
FIGURE A3.8-42
SRV QUENCHER ALL VALVE
VERTICAL RESPONSE SPECTRA
FOR DRYWELL WALL,
ELEVATION 712'-0"



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UPDATED SAFETY ANALYSIS REPORT

FIGURE A3.8-43

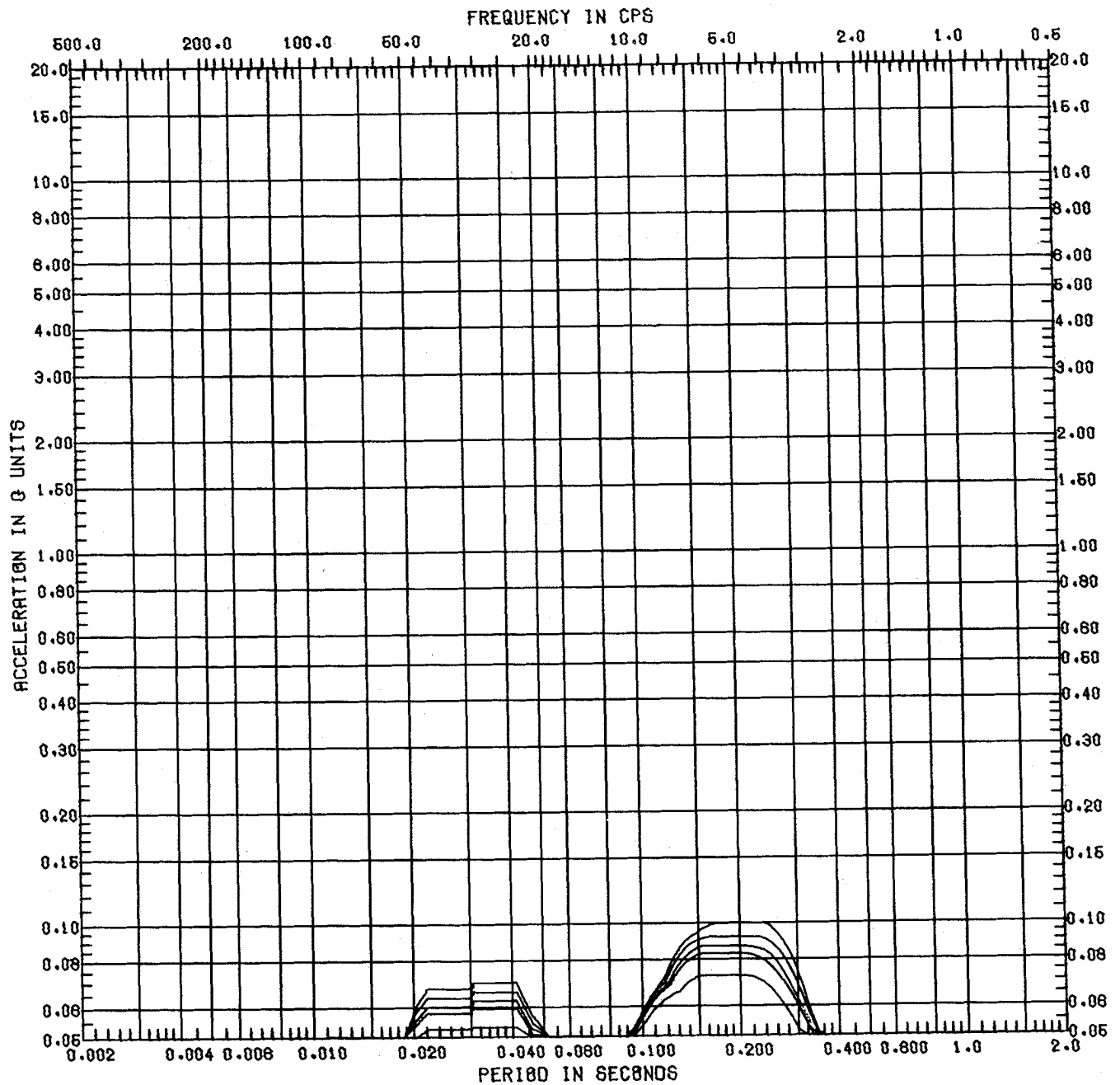
SRV QUENCHER ALL VALVE
VERTICAL RESPONSE SPECTRA
FOR PEDESTAL, ELEVATION 724'-1 3/4"



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FIGURE A3.8-44

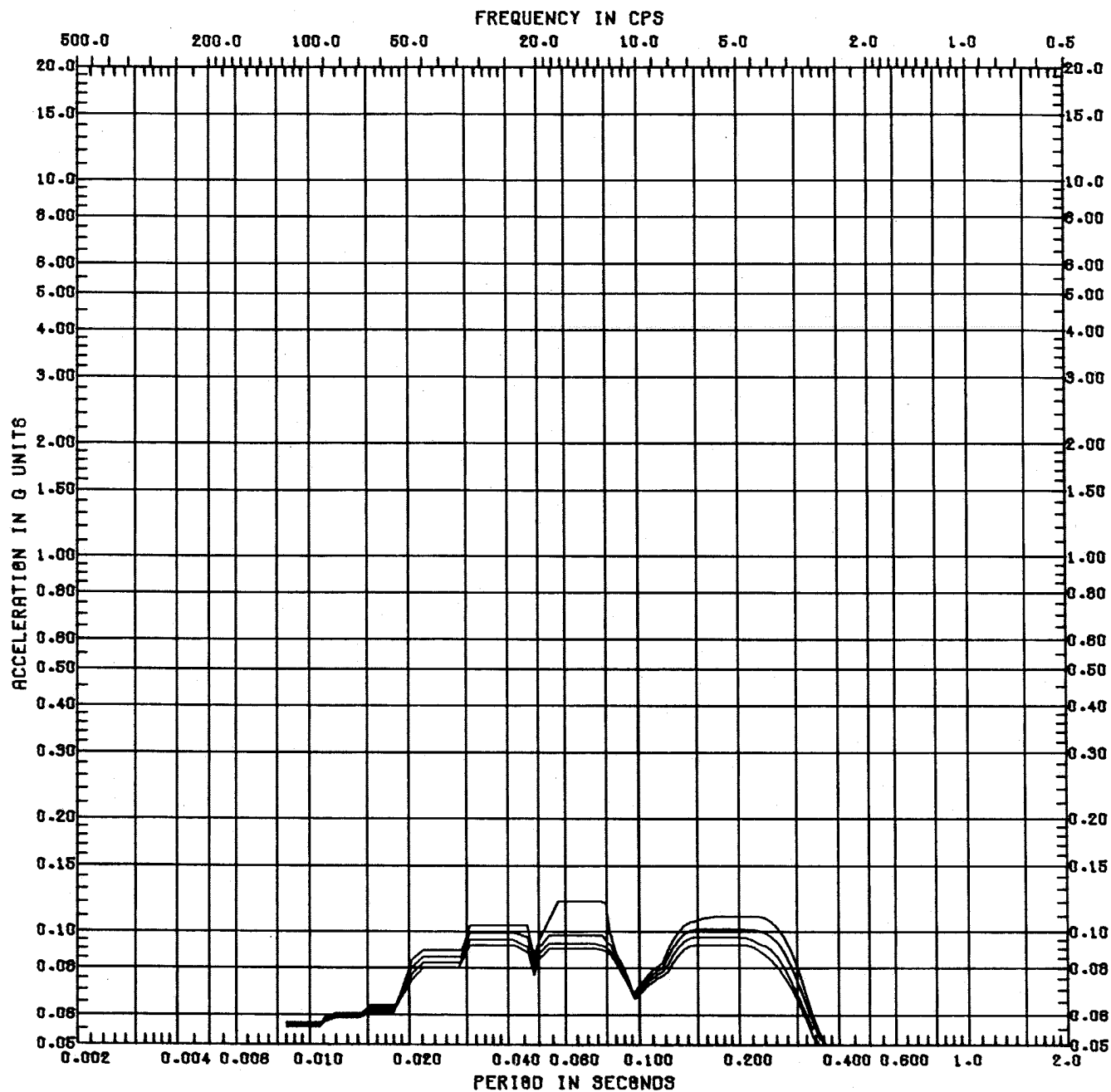
LOCA BUBBLE HORIZONTAL RESPONSE SPECTRA
FOR CONTAINMENT WALL
ELEVATION 712'-0"



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FIGURE A3.8-45

LOCA BUBBLE VERTICAL RESPONSE SPECTRA
FOR DRYWELL WALL
ELEVATION 712'-0"

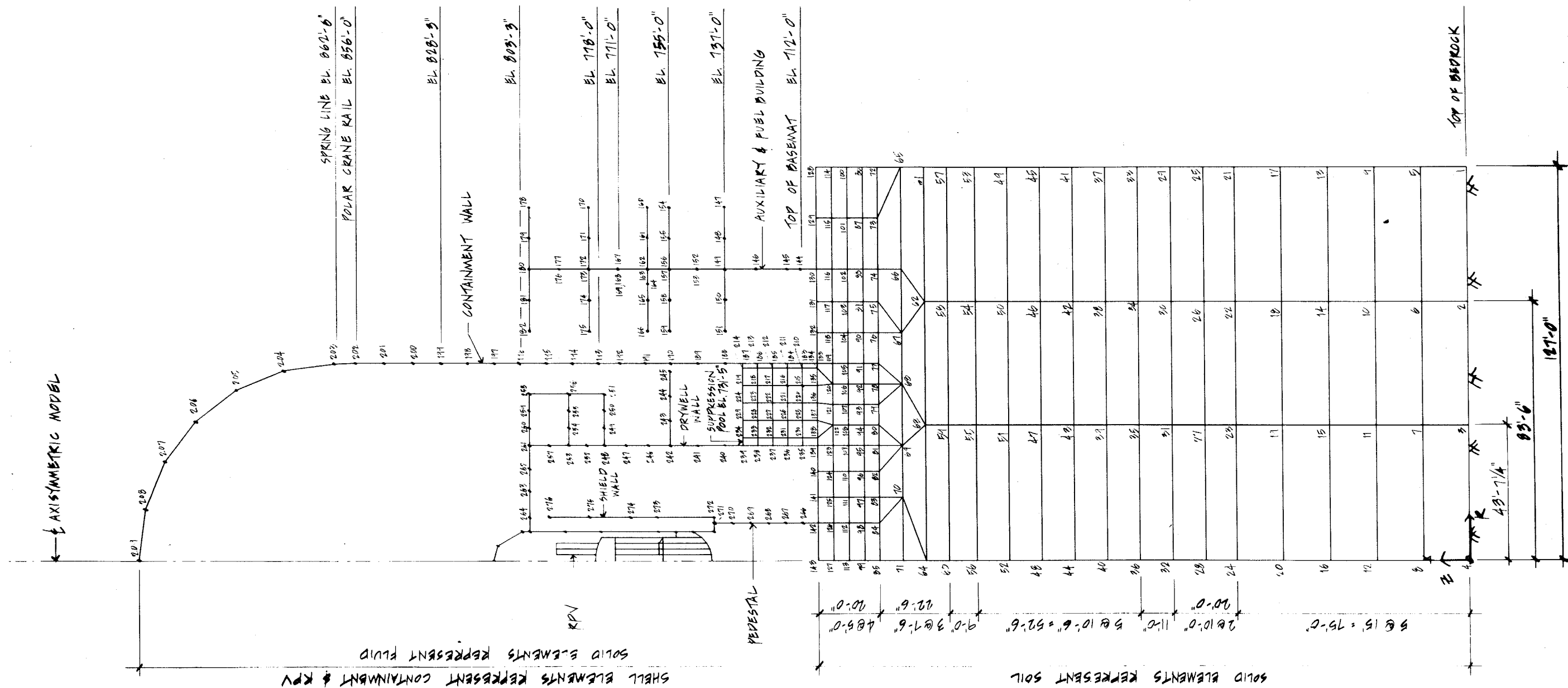


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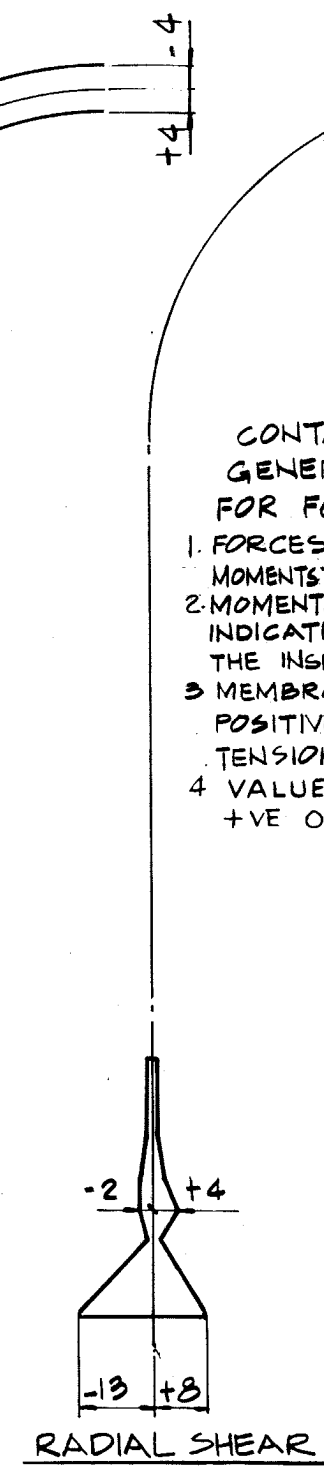
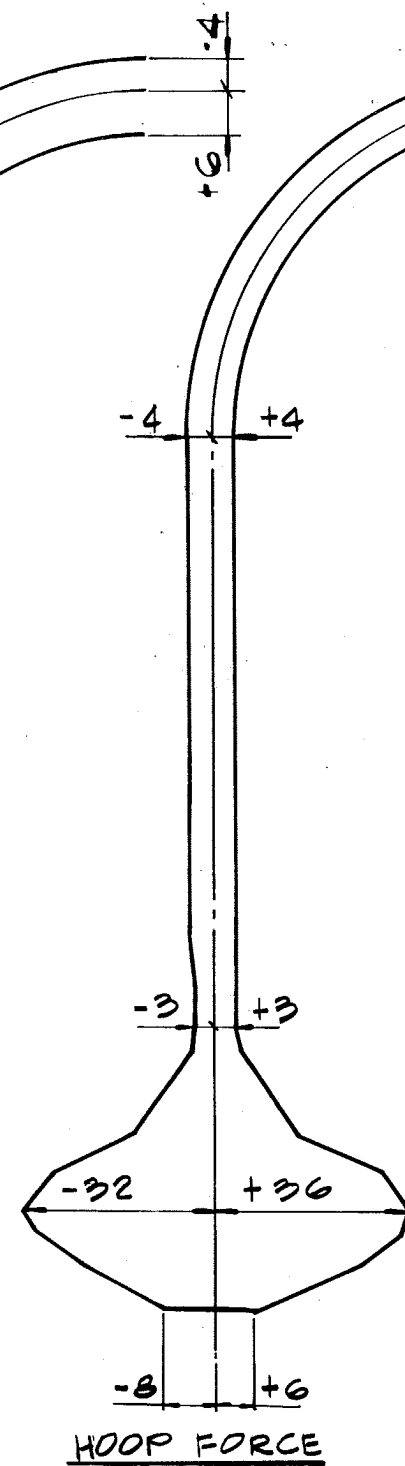
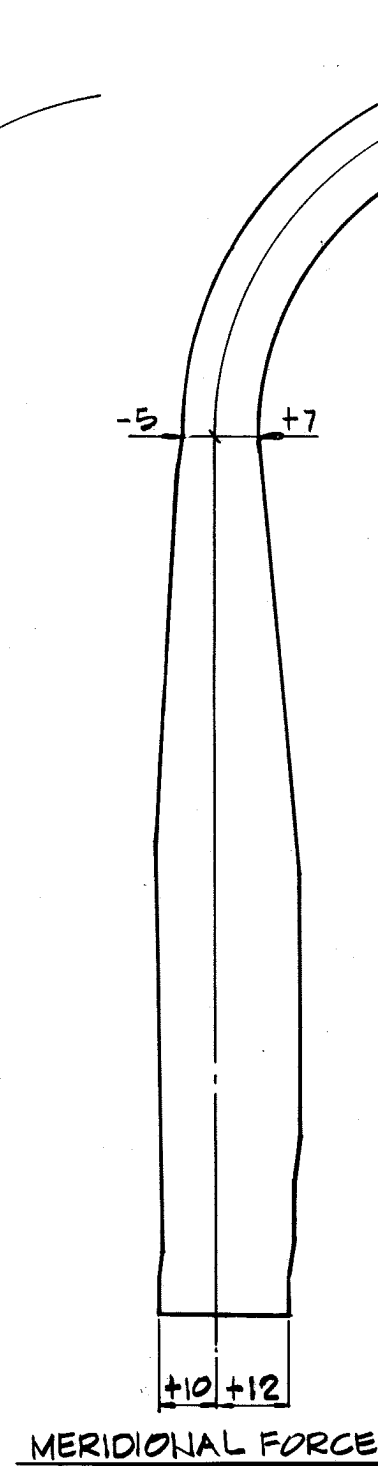
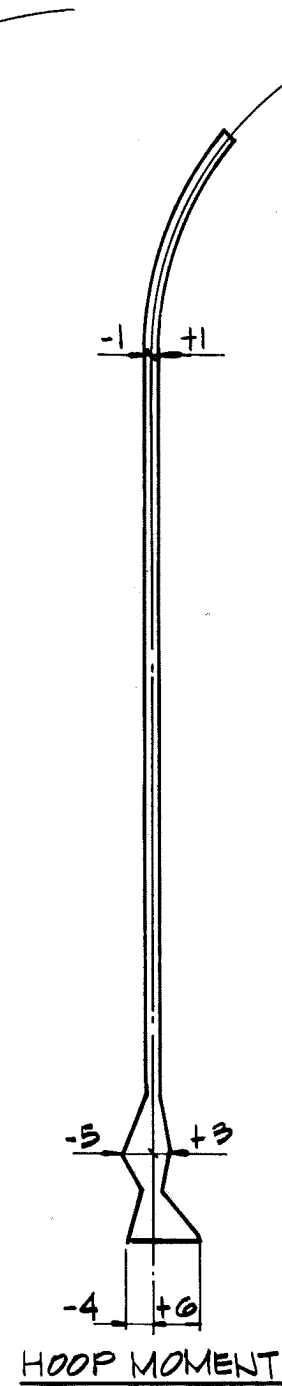
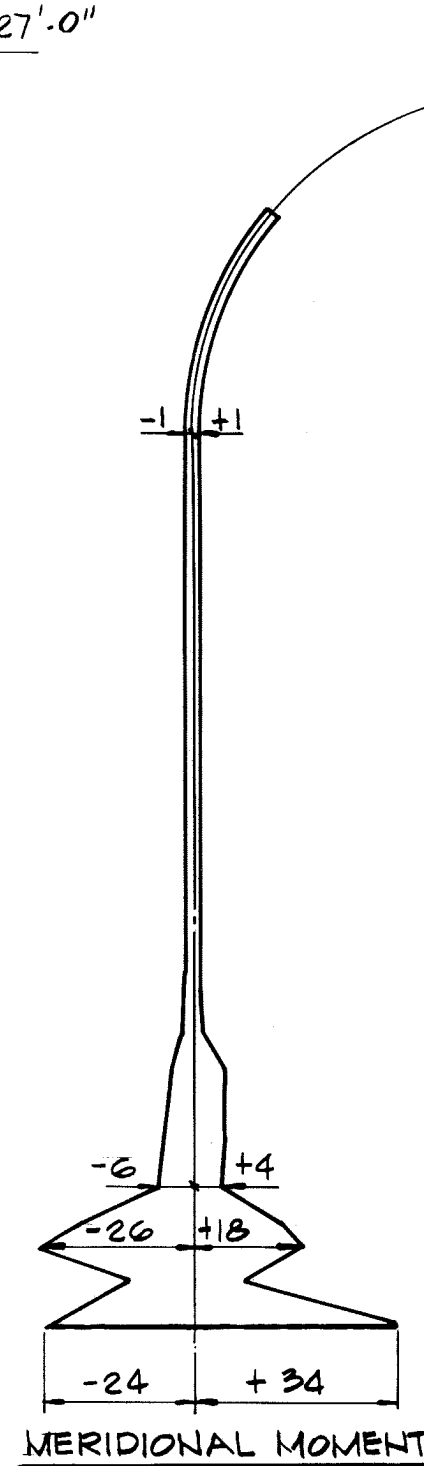
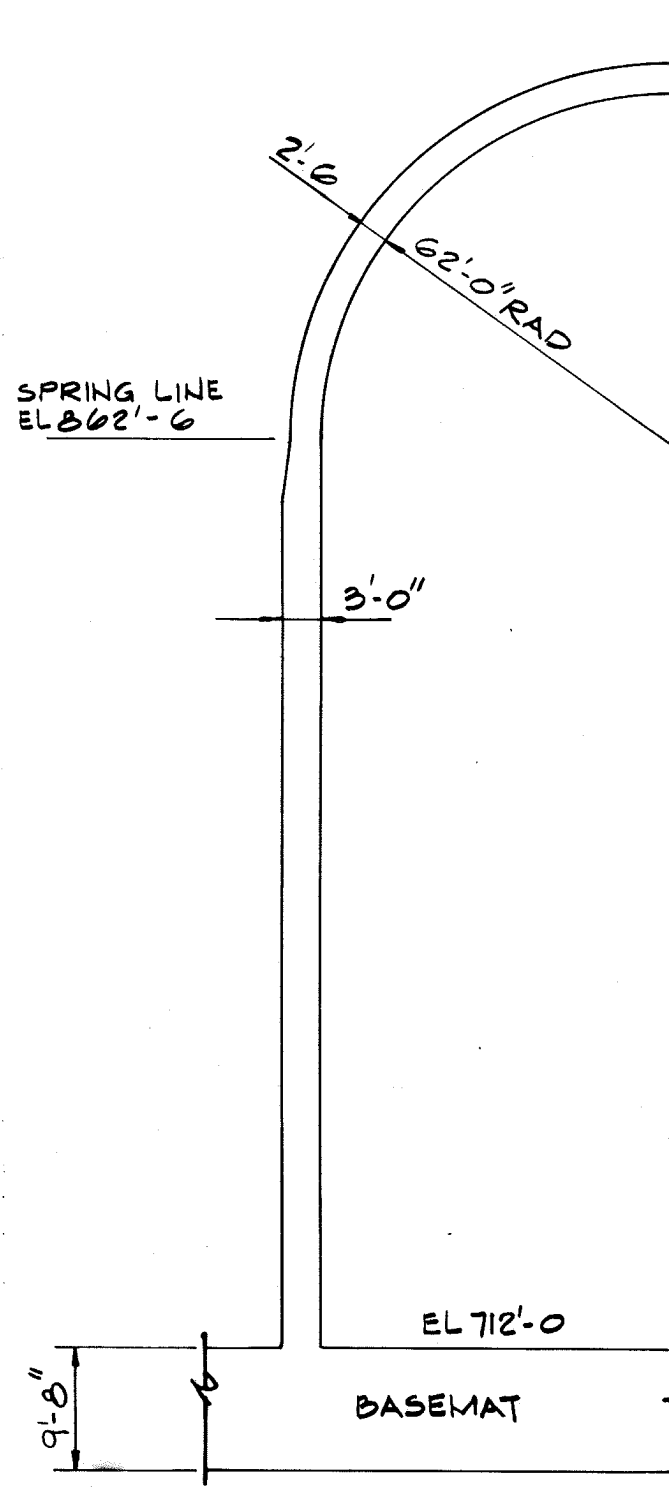
FIGURE A3.8-46

LOCA BUBBLE VERTICAL RESPONSE SPECTRA
FOR RPV, ELEVATION 753'-3 3/8"

FIGURE A3.8-47
HAS BEEN DELETED



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 UPDATED SAFETY ANALYSIS REPORT
 FIGURE A3.8-48
 FINITE ELEMENT MODEL
 (USED FOR QUENCHER AND LOCA ANALYSIS)



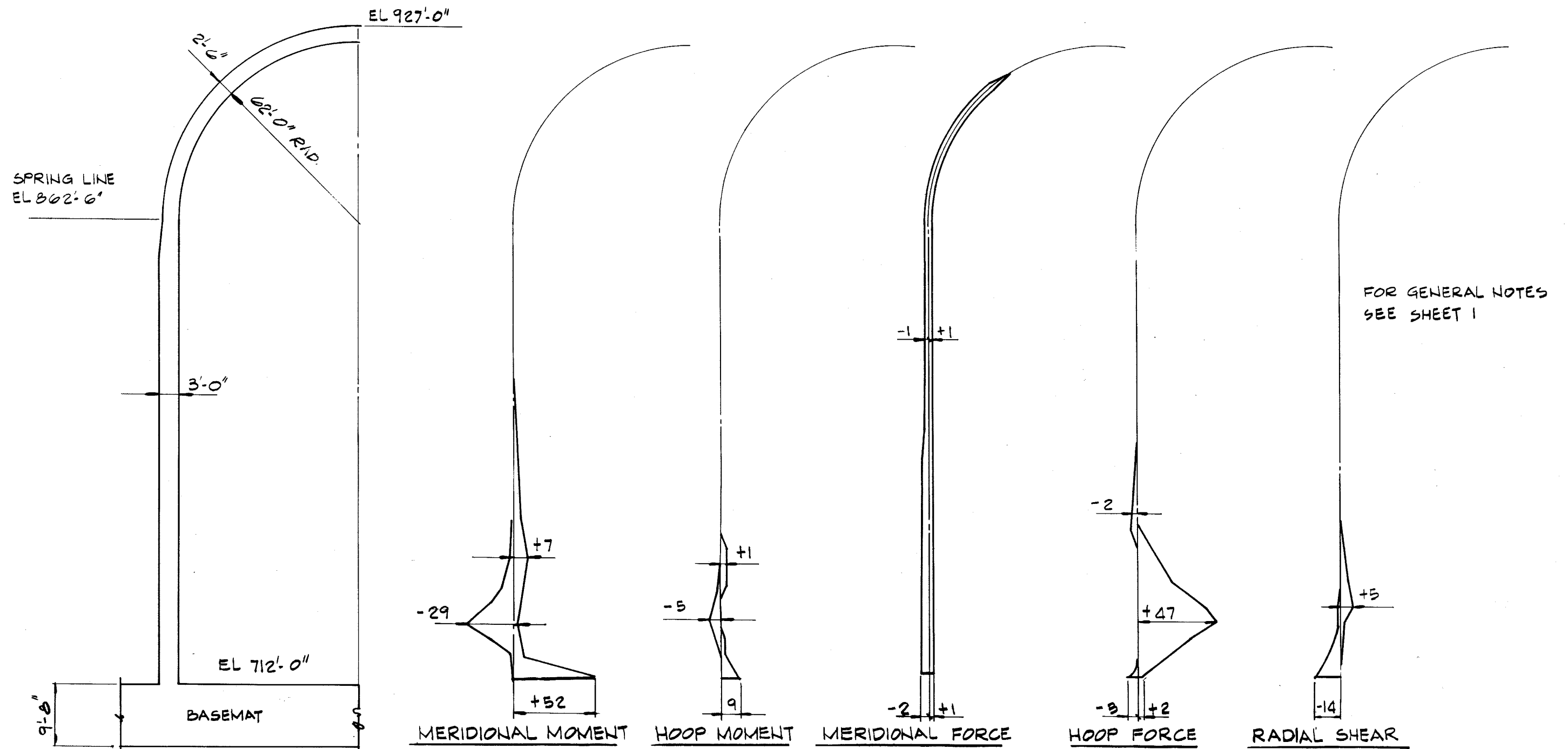
CONTAINMENT
GENERAL NOTES
FOR FORCE PLOTS

1. FORCES: KIP/ FOOT
2. MOMENTS: FOOT-KIPS/ FOOT
3. MOMENTS, IF POSITIVE INDICATE TENSION ON THE INSIDE FACE
3. MEMBRANE FORCES, IF POSITIVE, INDICATE TENSION
4. VALUES ARE MAX. +VE OR -VE

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FIGURE B3.8-1

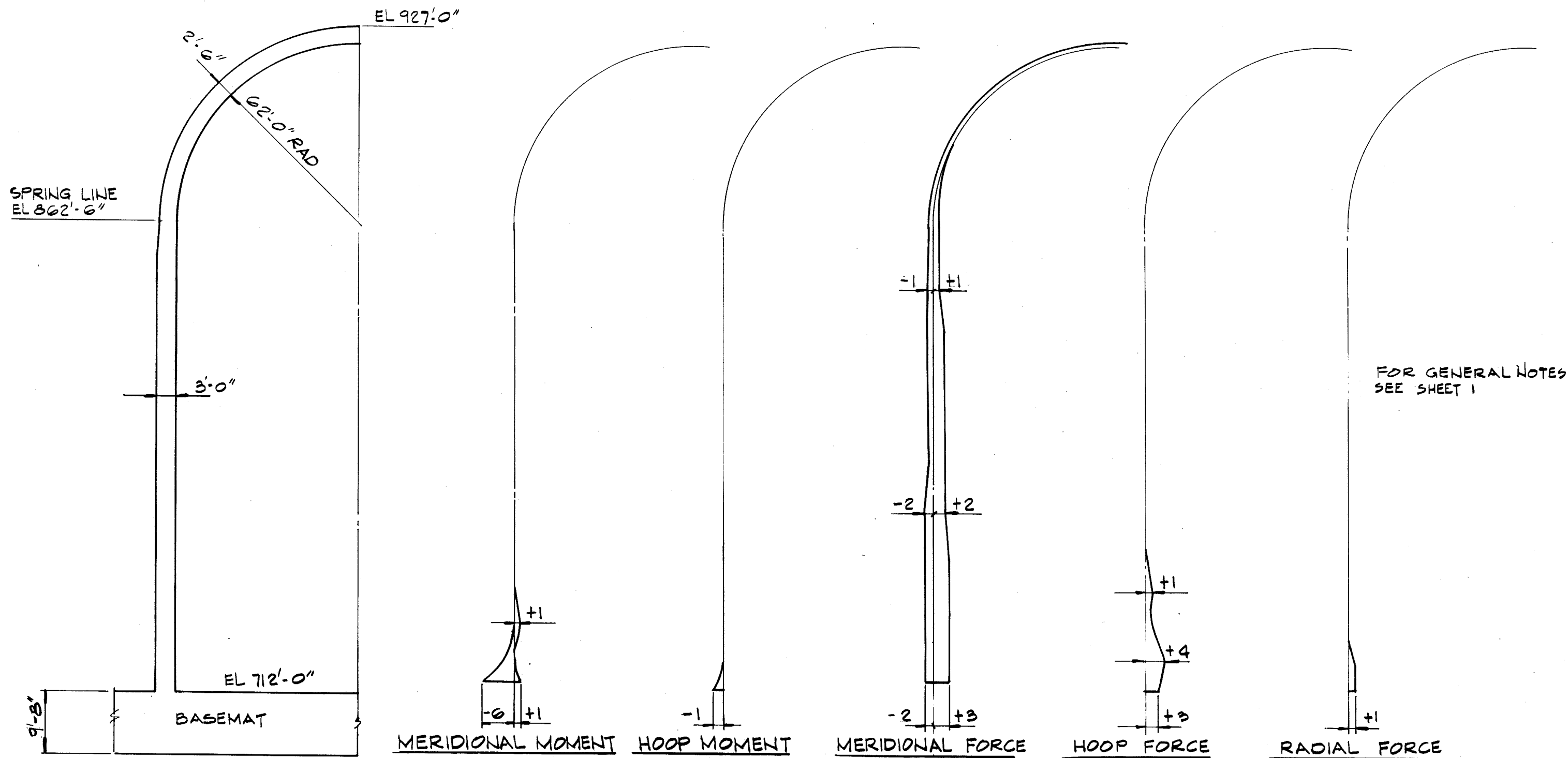
FORCE PLOTS CONTAINMENT
WALL SRV - ALL VALVE



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UPDATED SAFETY ANALYSIS REPORT

FIGURE B3.8-2

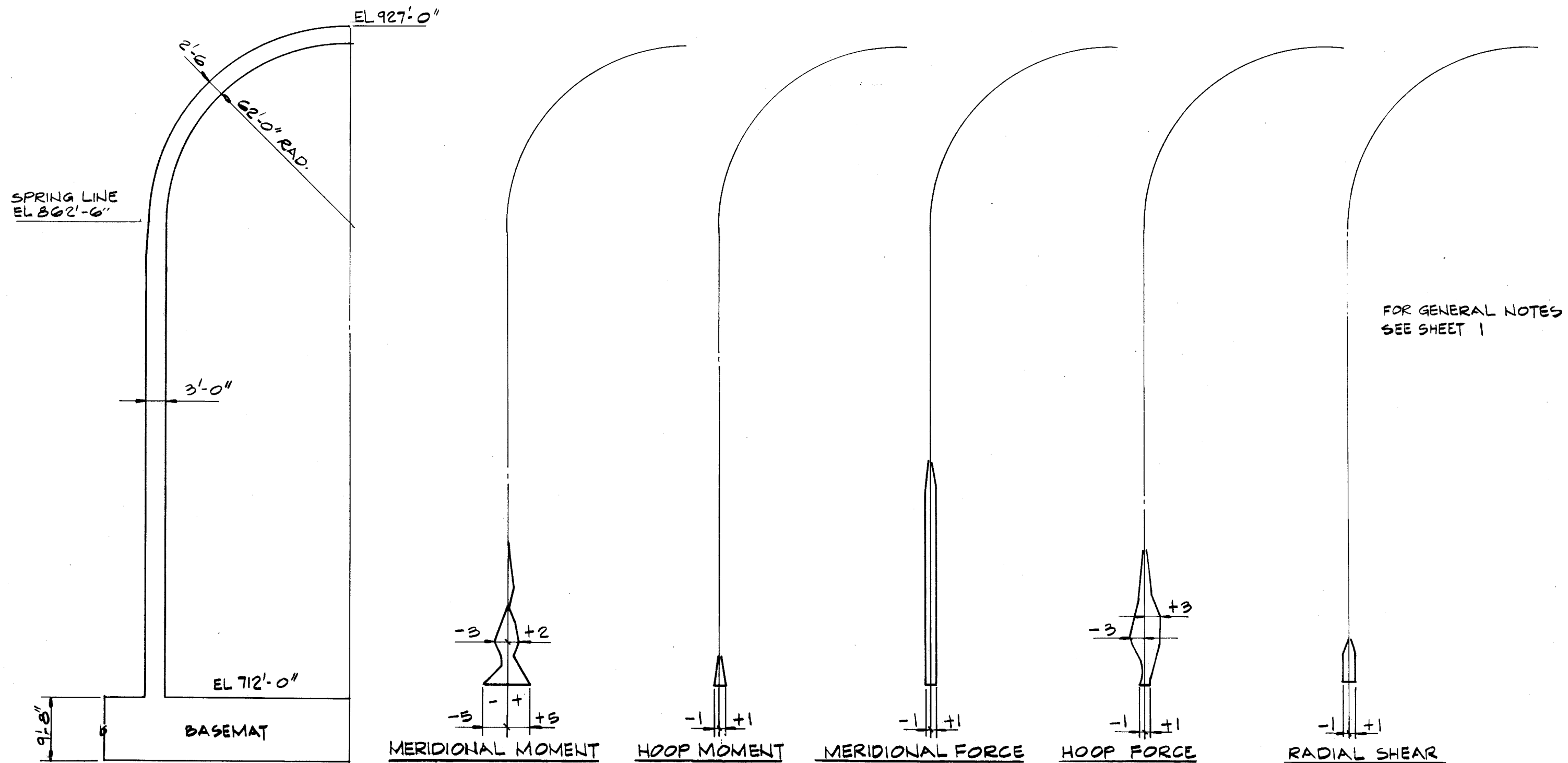
FORCE PLOTS CONTAINMENT
WALL - LOCA BUBBLE



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FIGURE B3.8-3

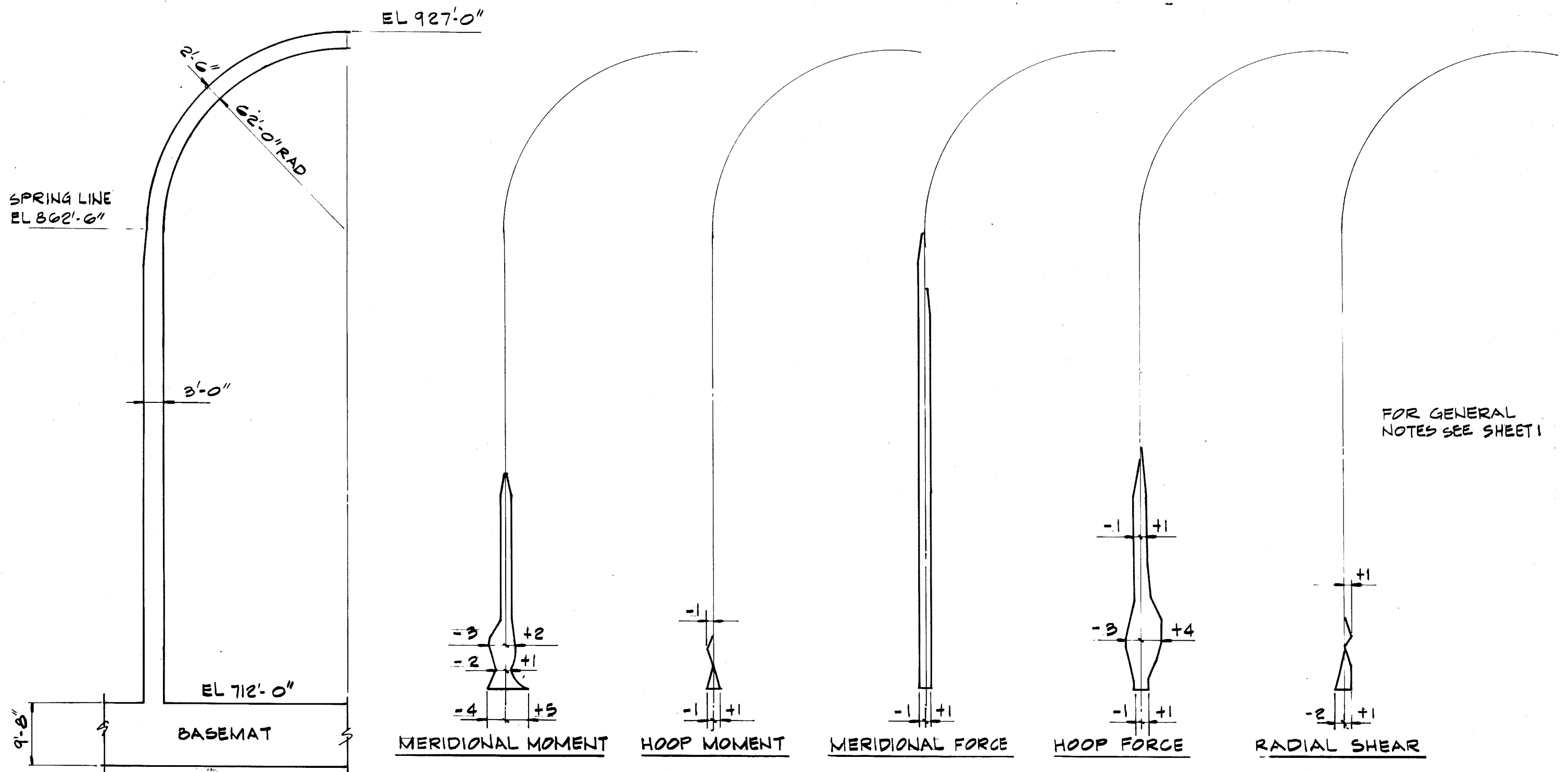
FORCE PLOTS CONTAINMENT
WALL - LOCA - FROTH IMPINGEMENT



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FIGURE B3.8-4

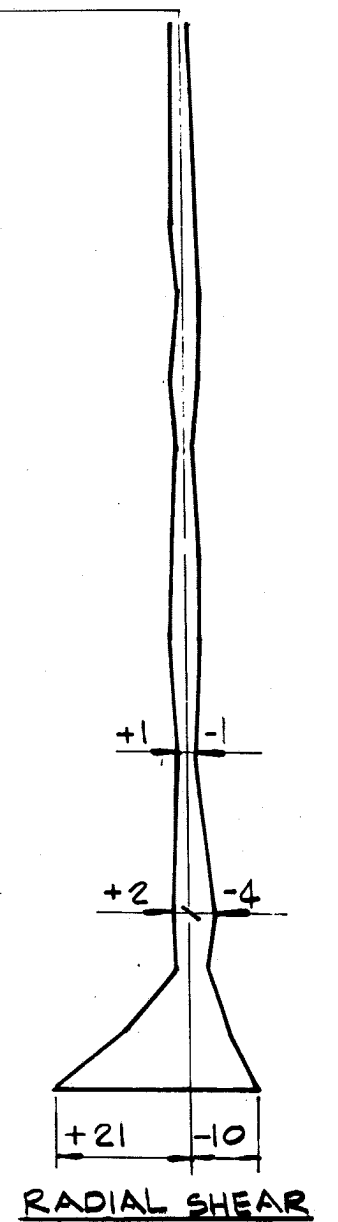
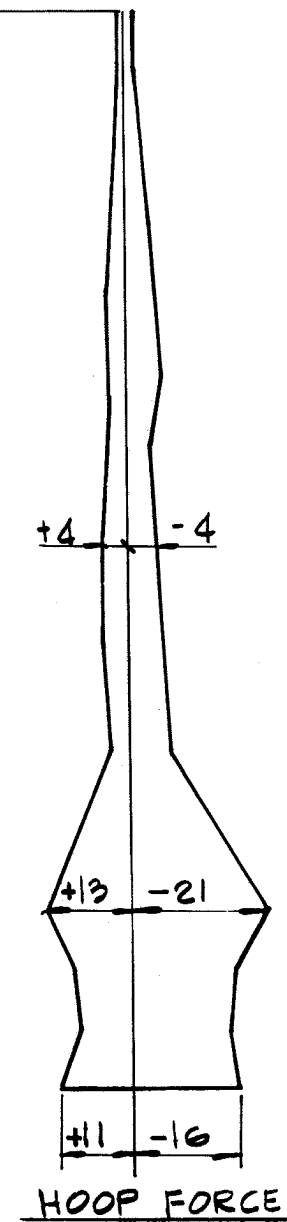
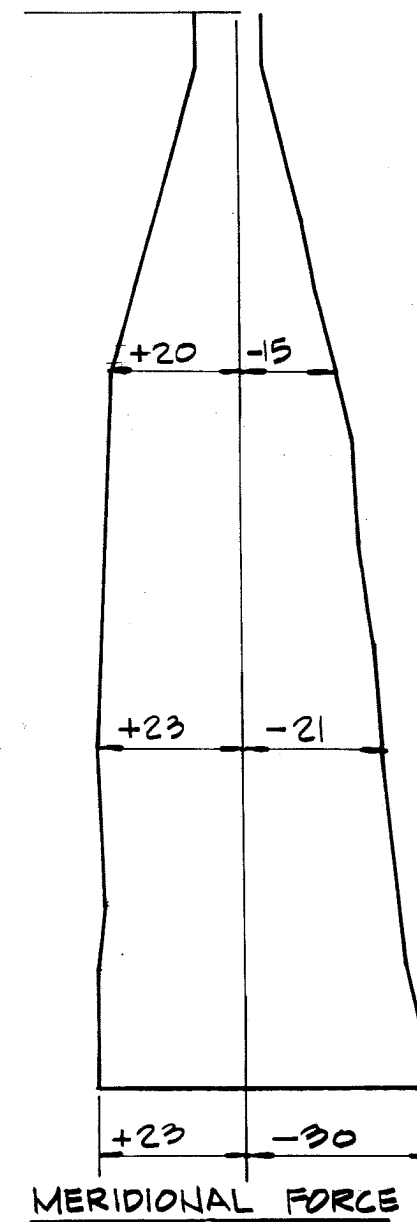
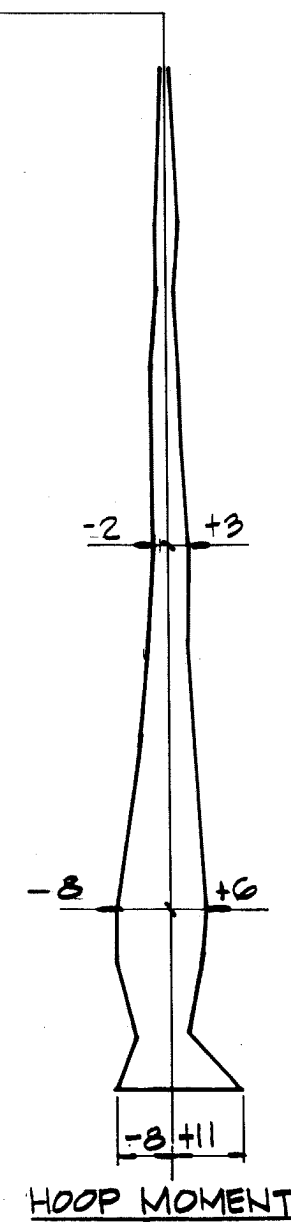
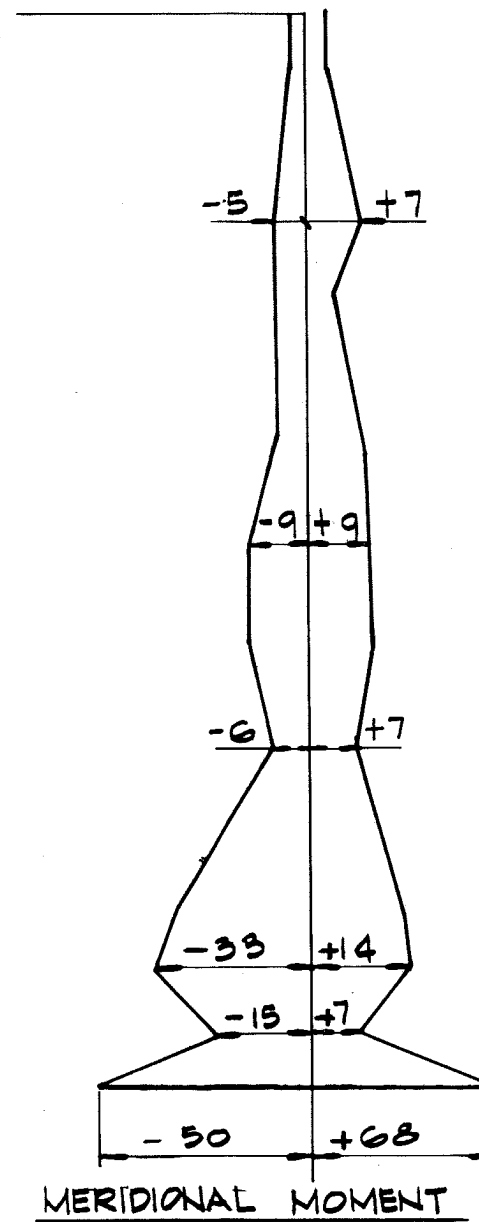
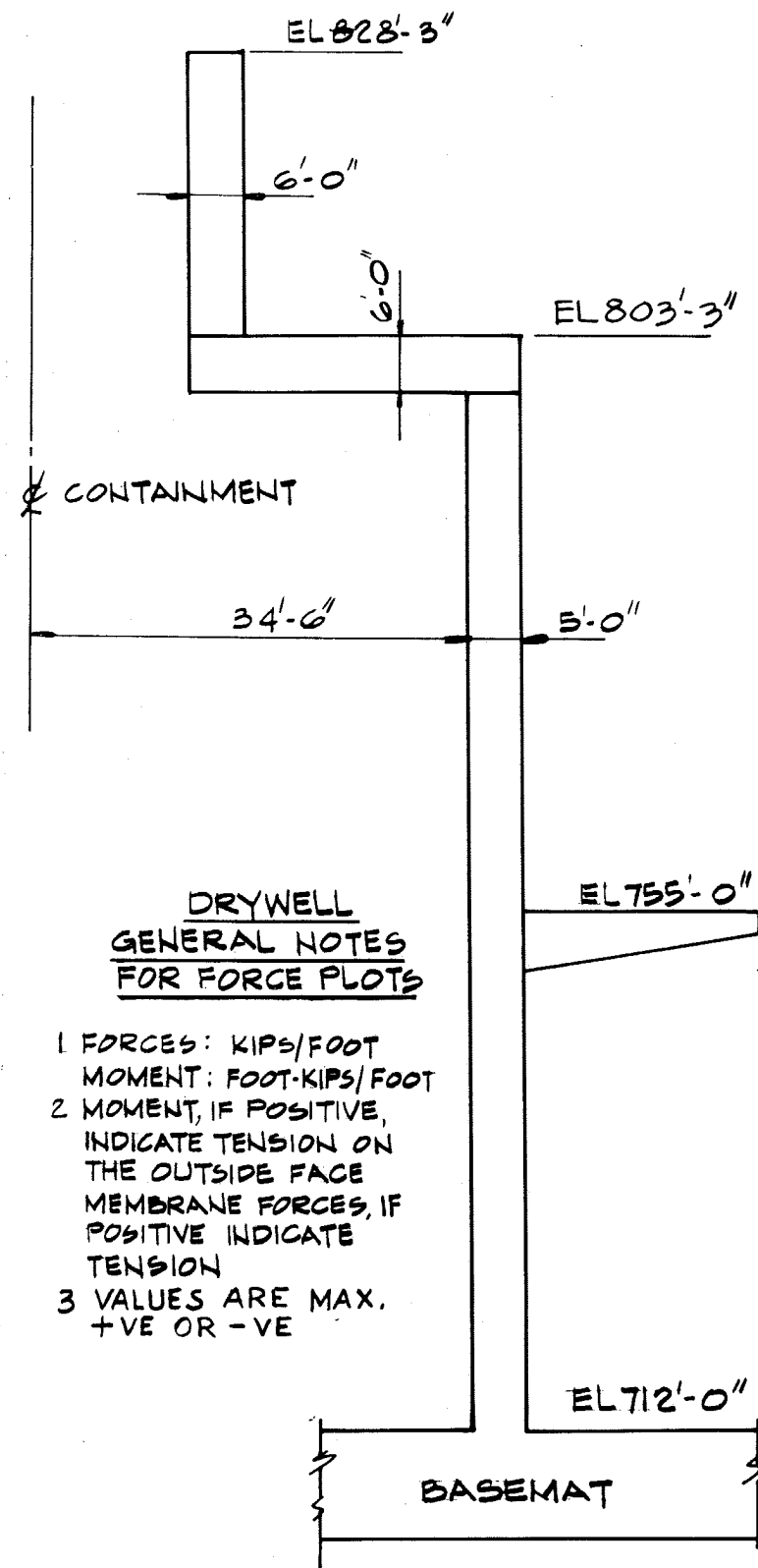
FORCE PLOTS CONTAINMENT WALL -
LOCA - CONDENSATION OSCILLATION



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FIGURE B3.8-5

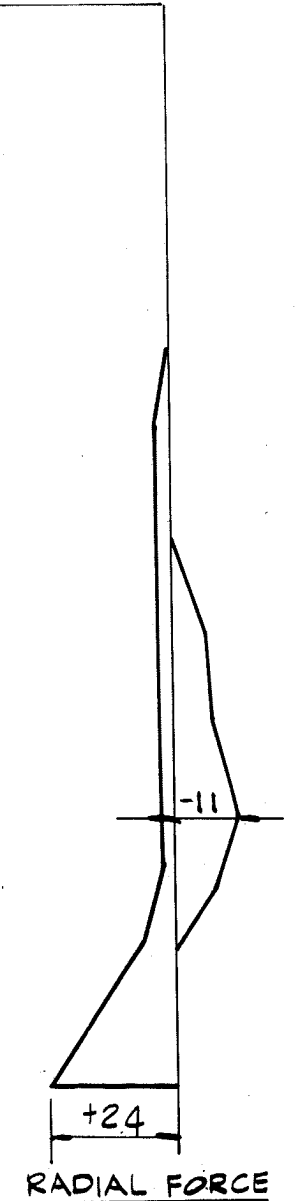
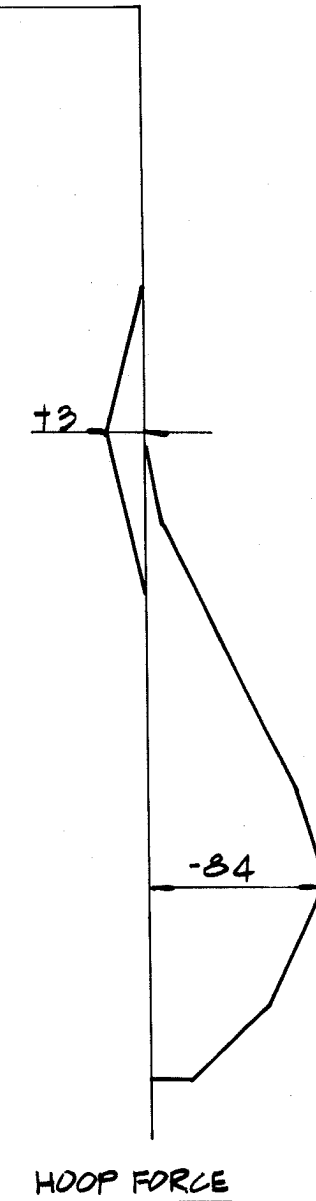
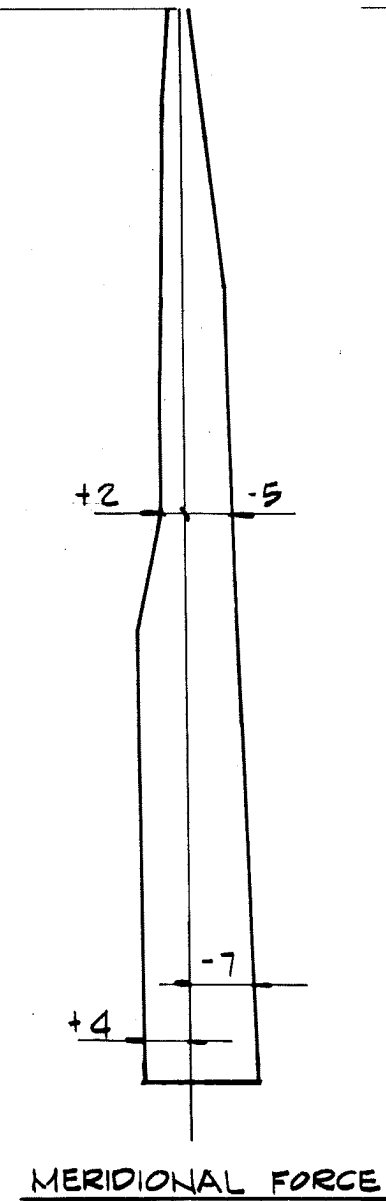
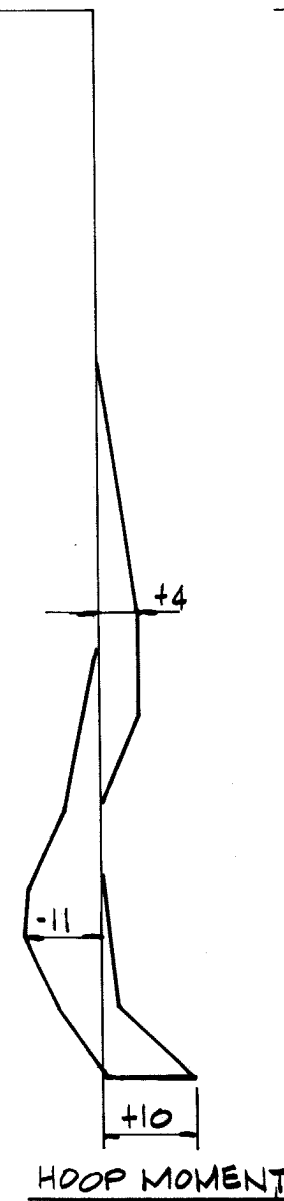
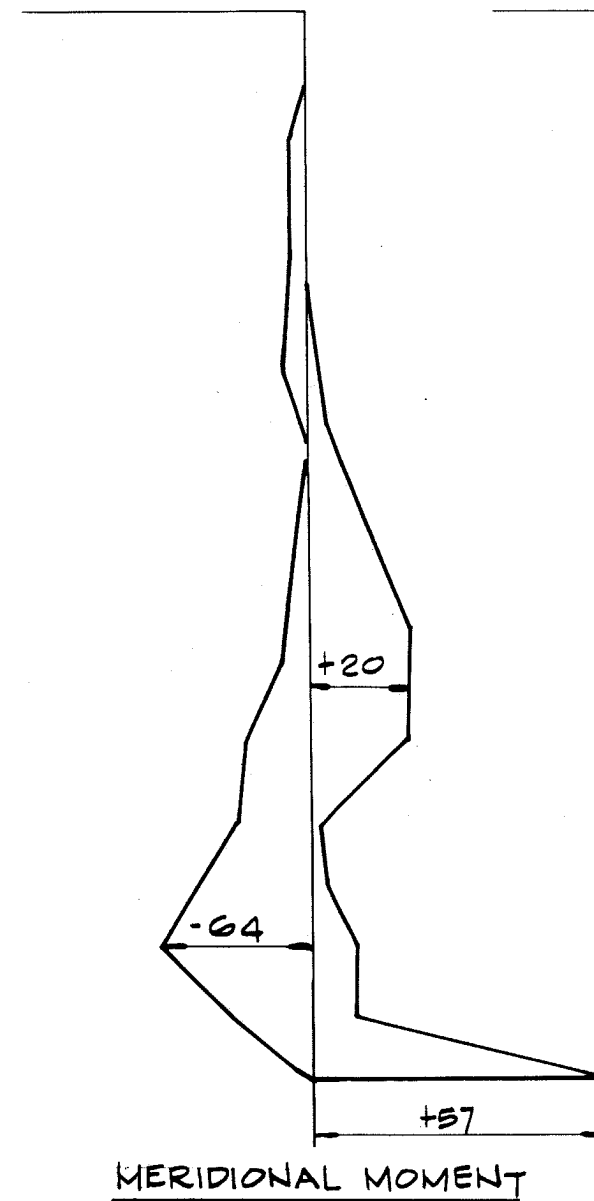
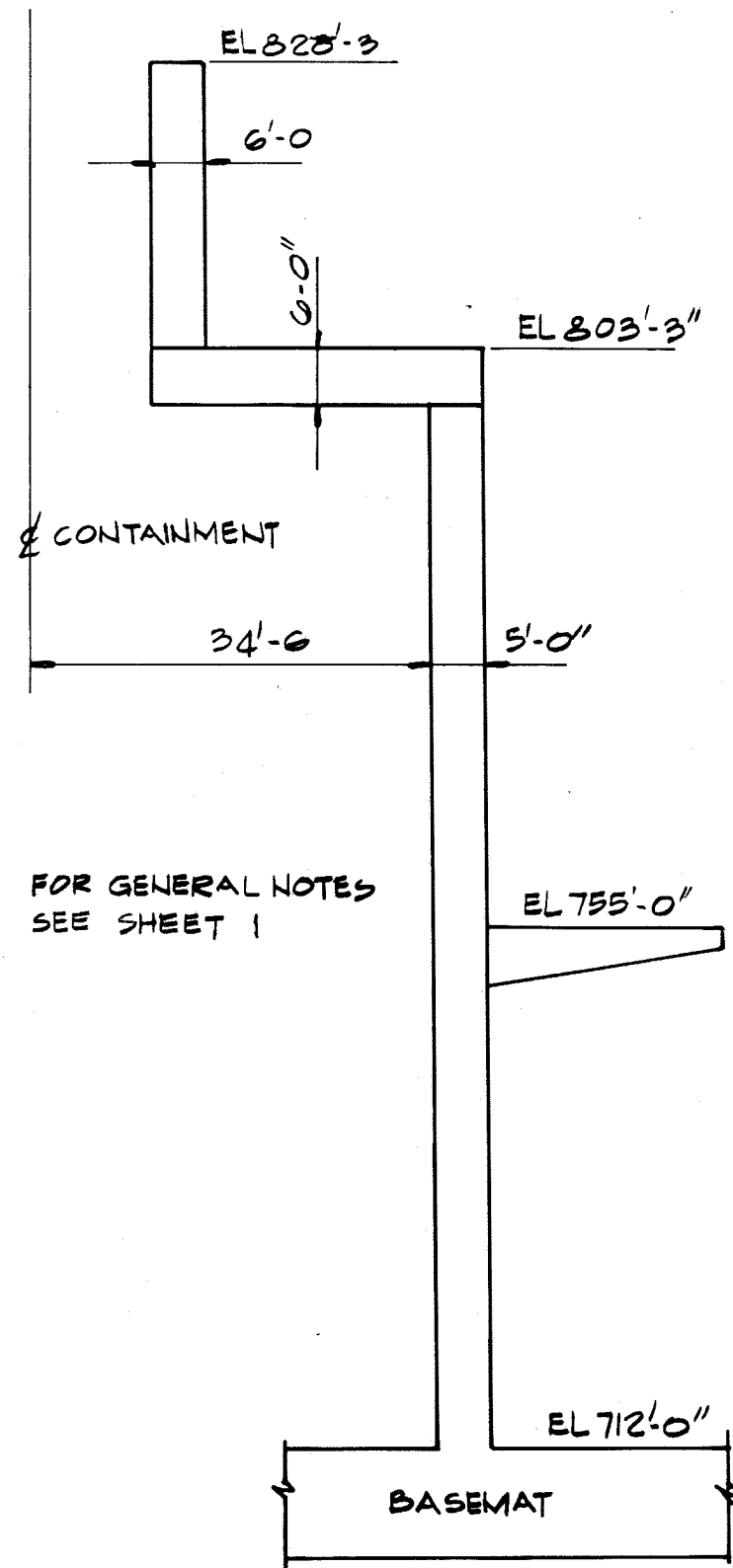
FORCE PLOTS CONTAINMENT
WALL - LOCA CHUGGING



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FIGURE B3.8-6

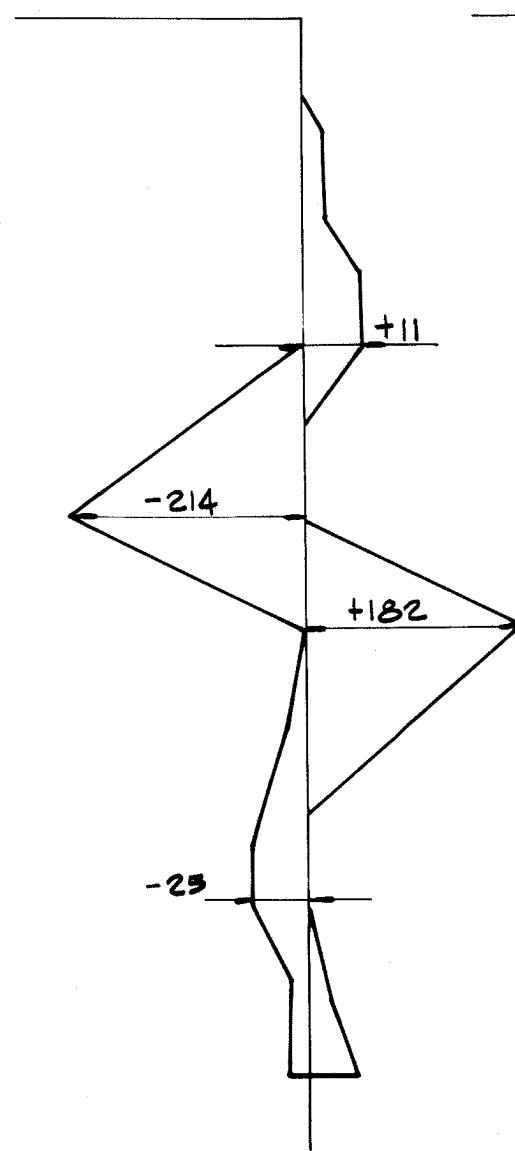
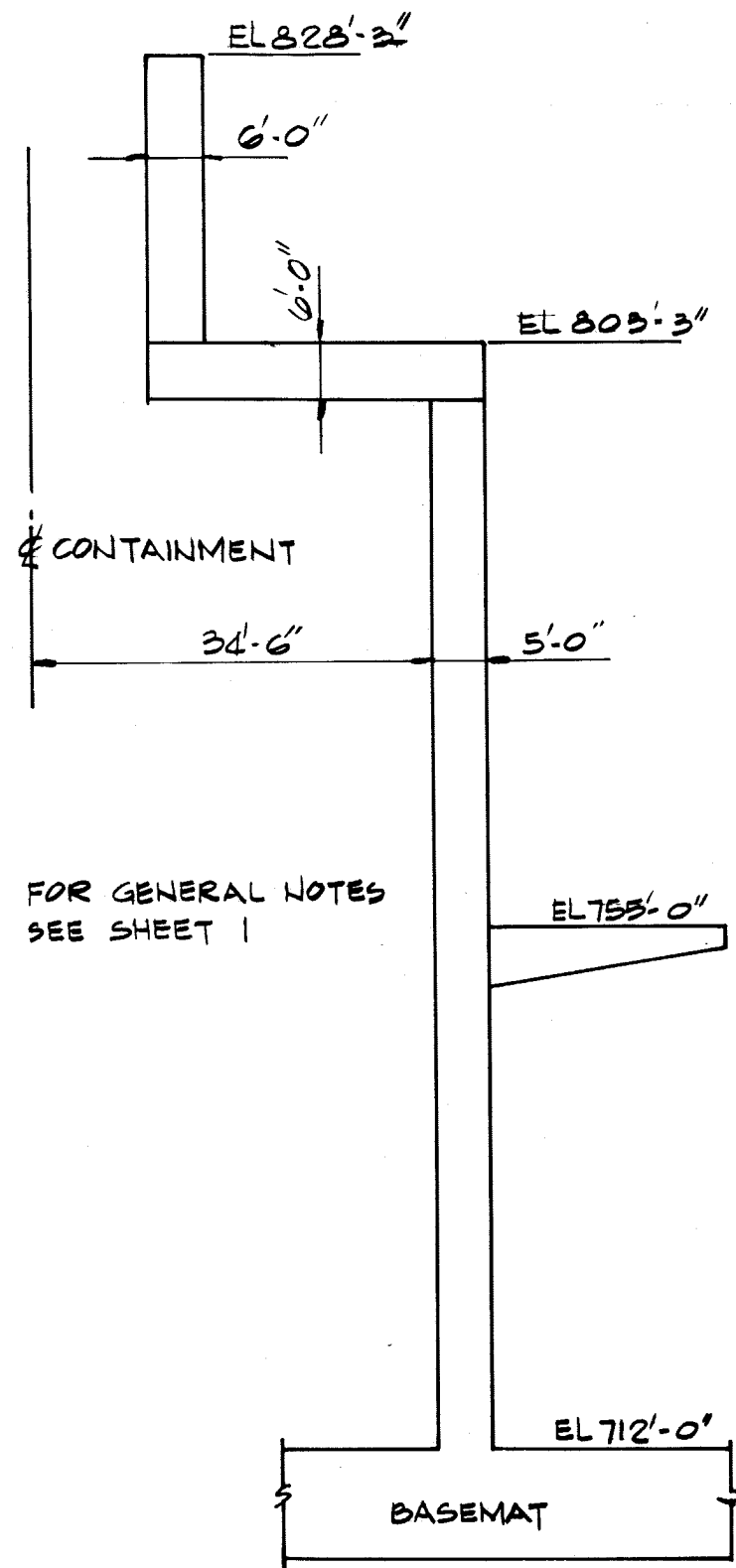
FORCE PLOTS DRYWELL SRV -
ALL VALVE



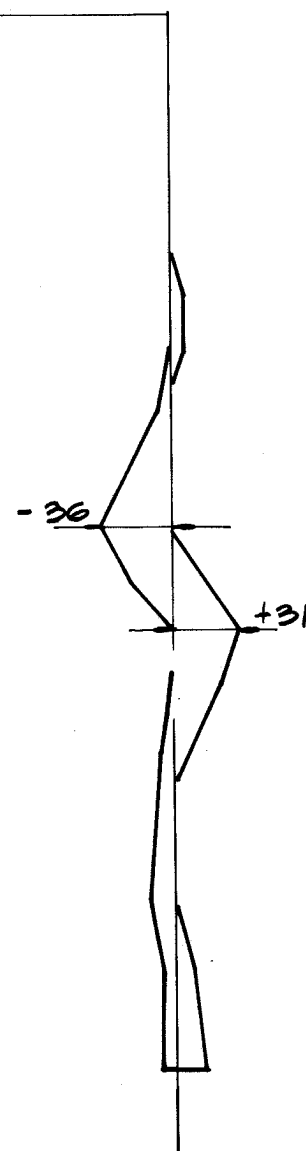
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FIGURE B3.8-7

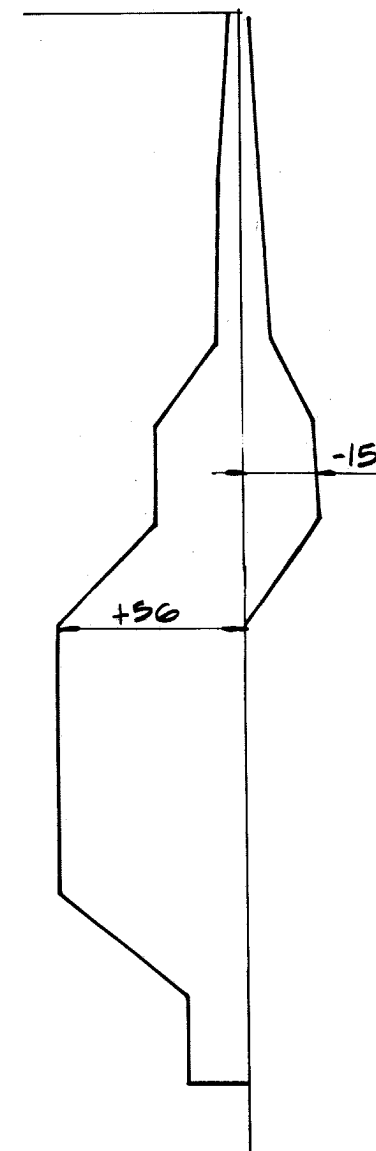
FORCE PLOTS DRYWELL LOCA BUBBLE



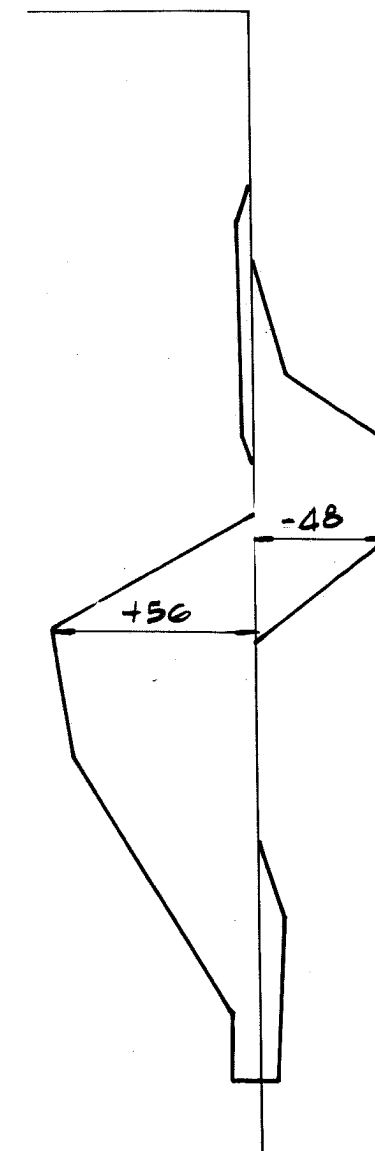
MERIDIONAL MOMENT



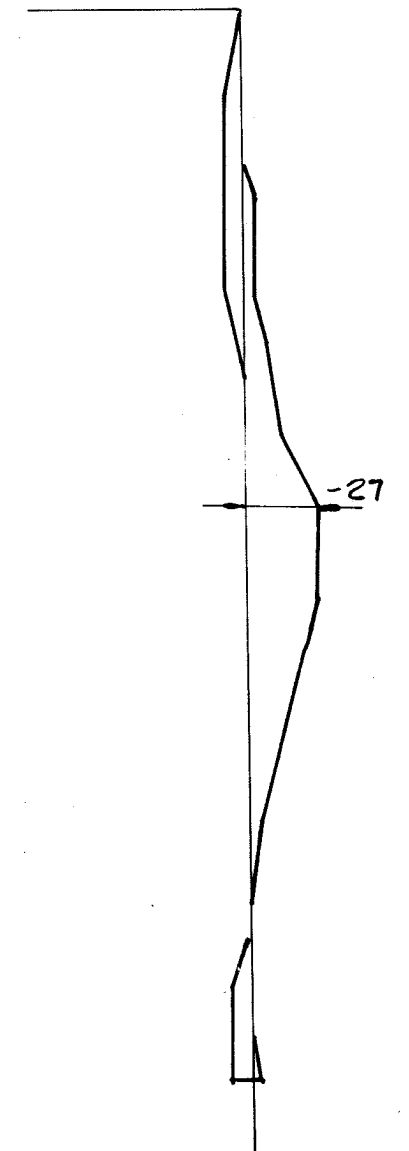
HOOP MOMENT



MERIDIONAL FORCE



HOOP FORCE

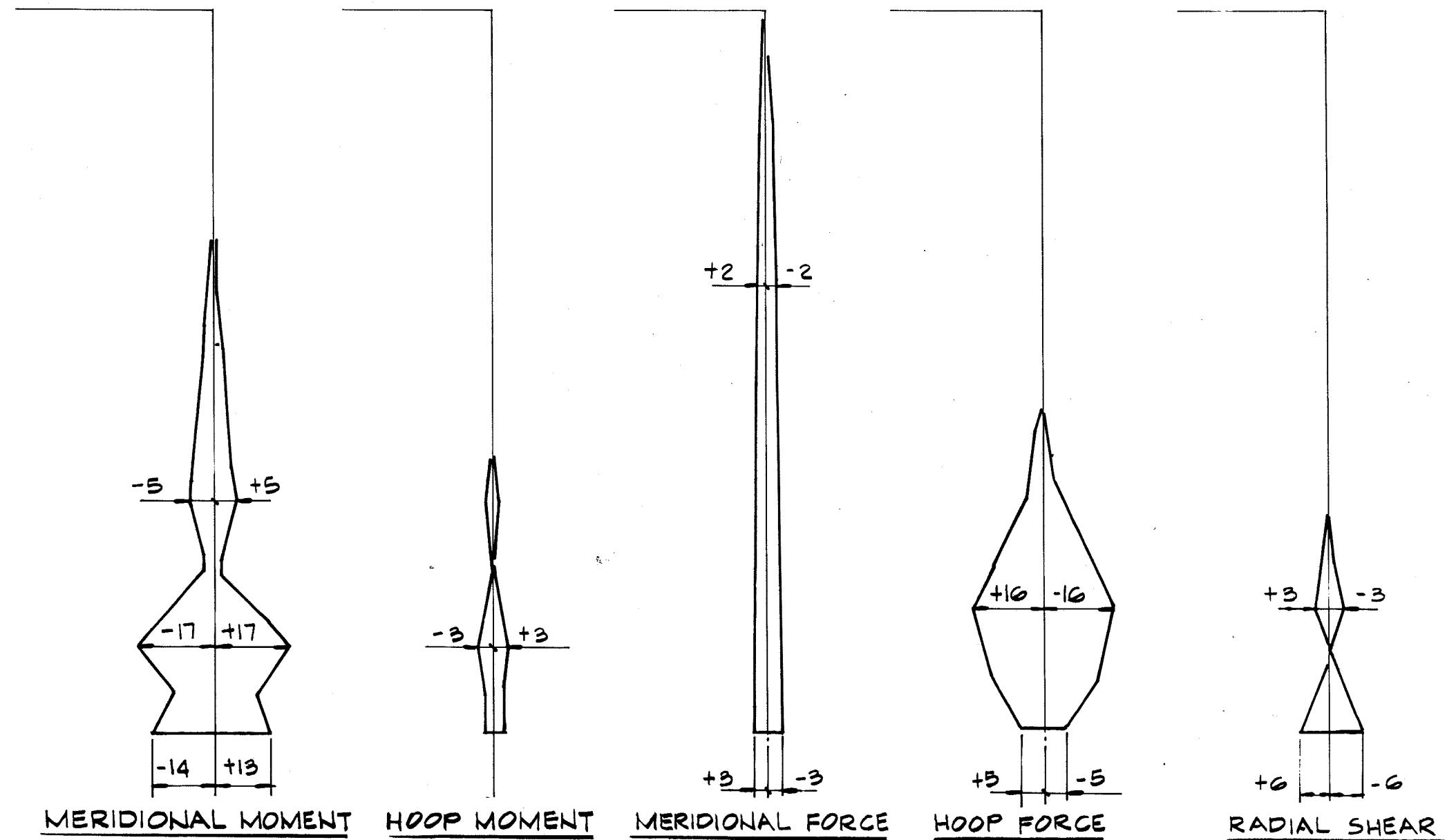
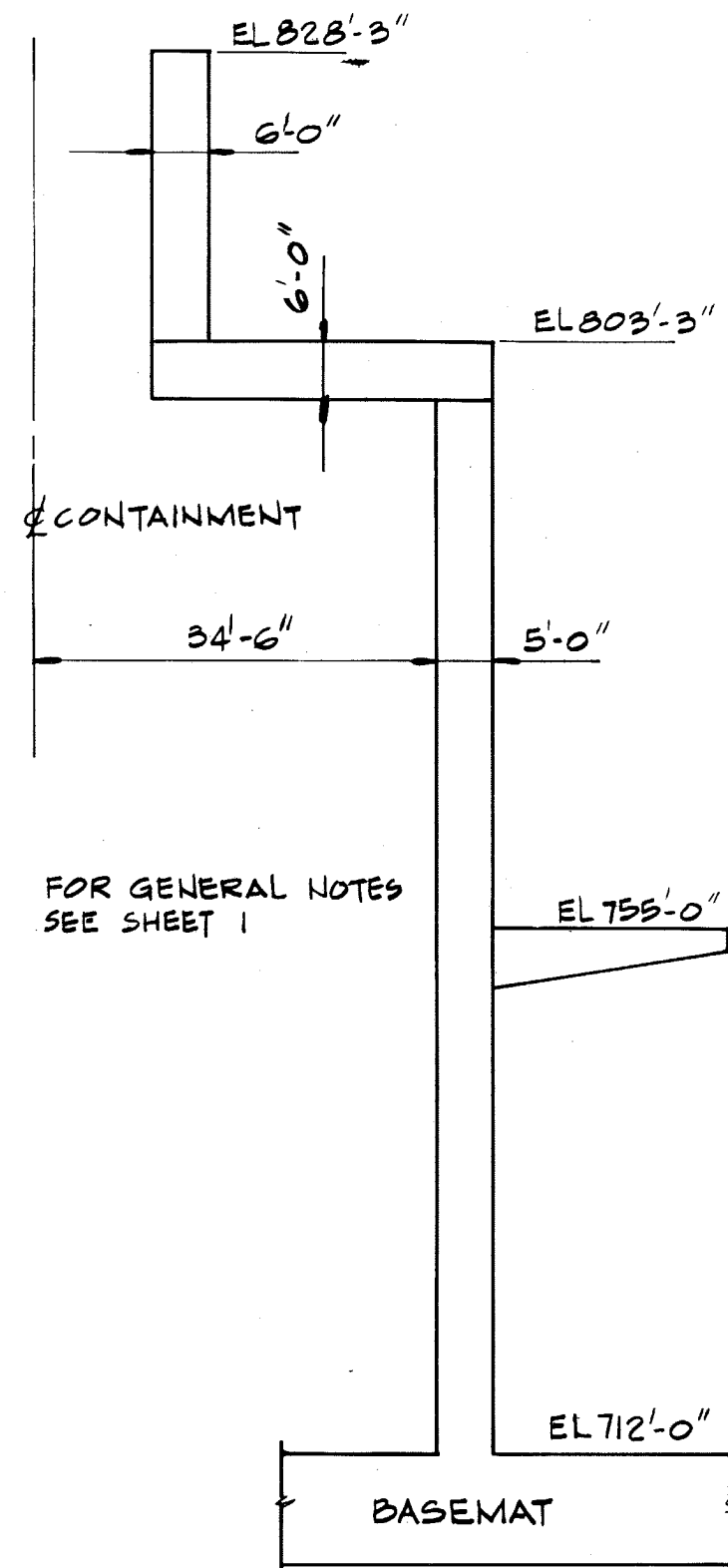


RADIAL SHEAR

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FIGURE B3.8-8

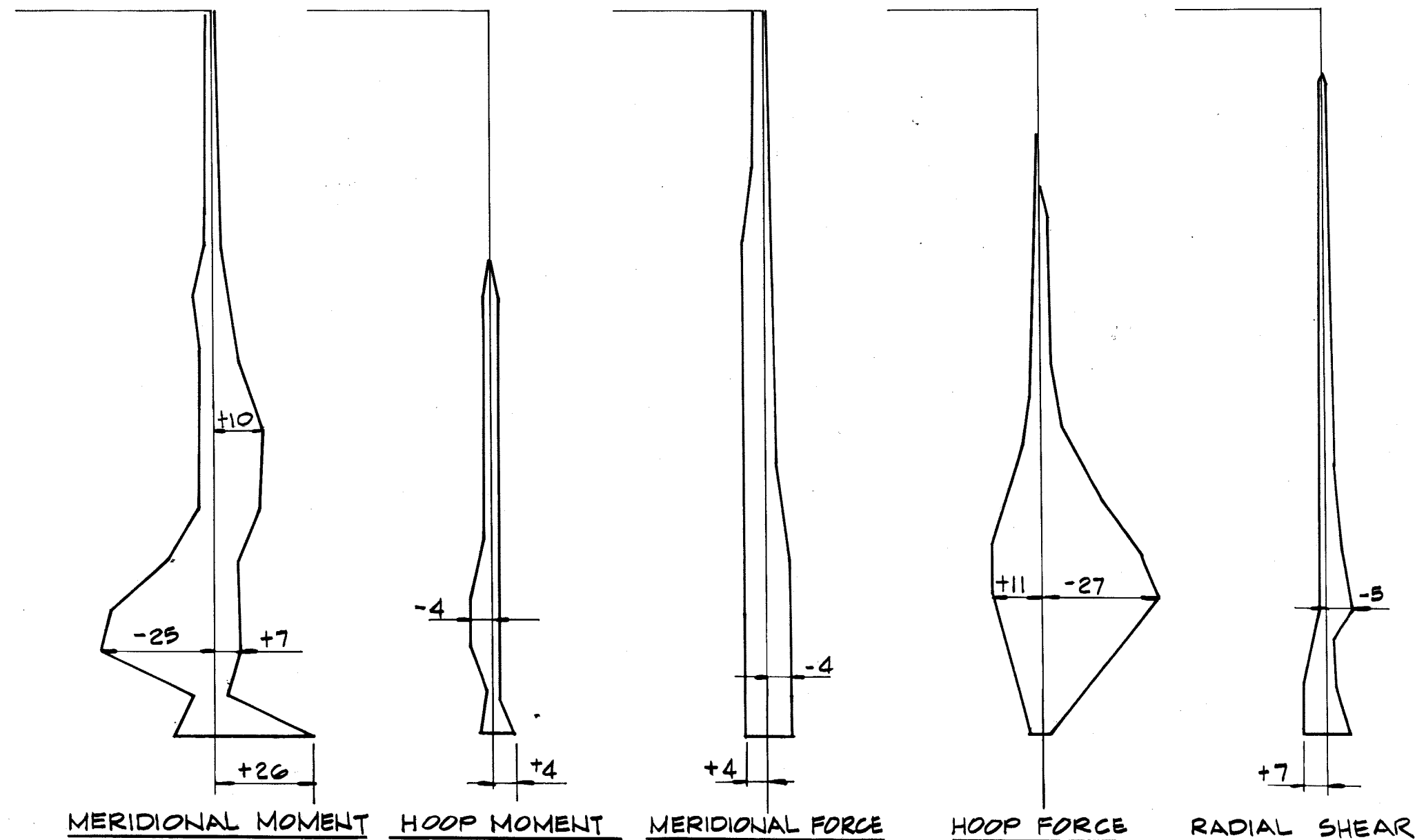
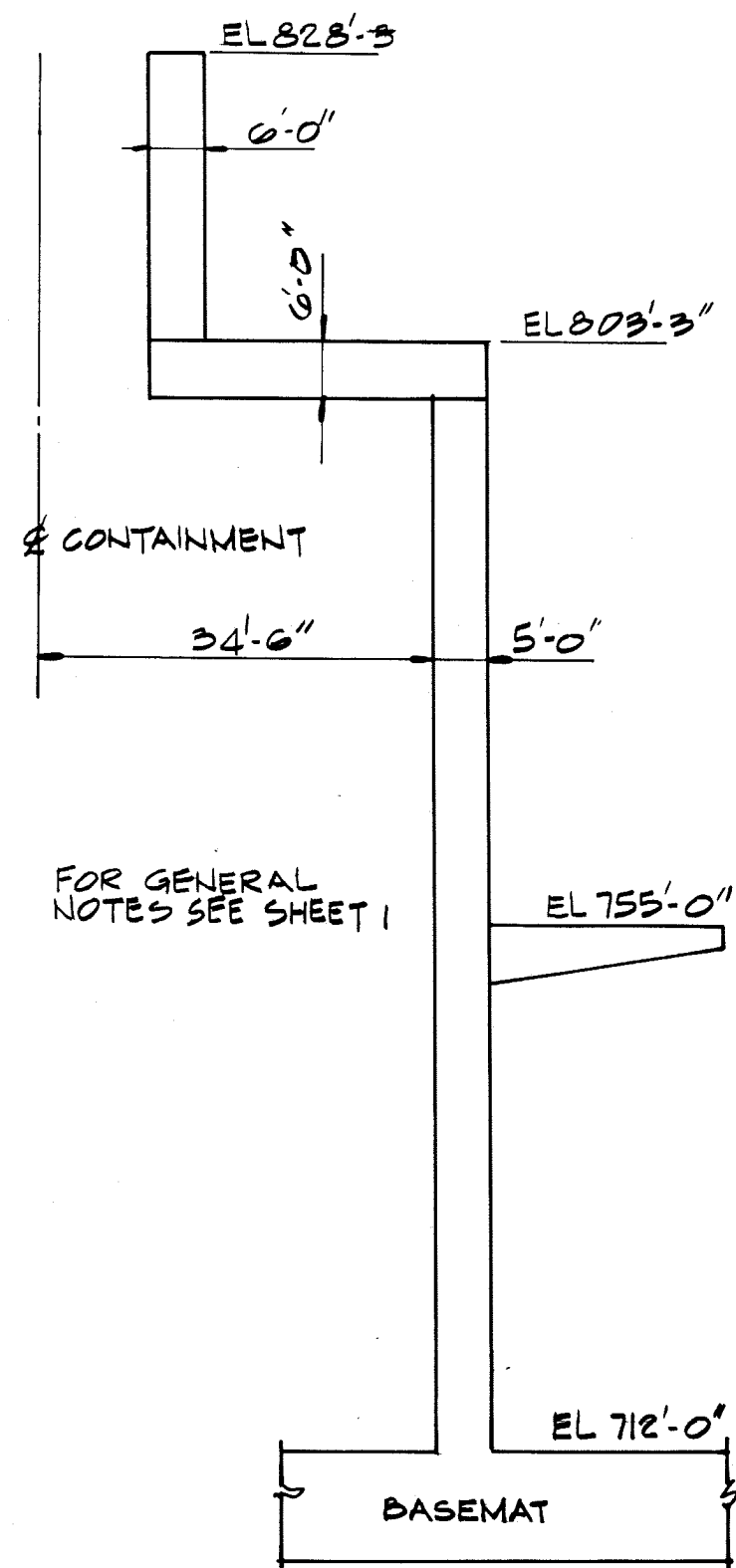
FORCE PLOTS DRYWELL LOCA -
FROTH IMPINGEMENT



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

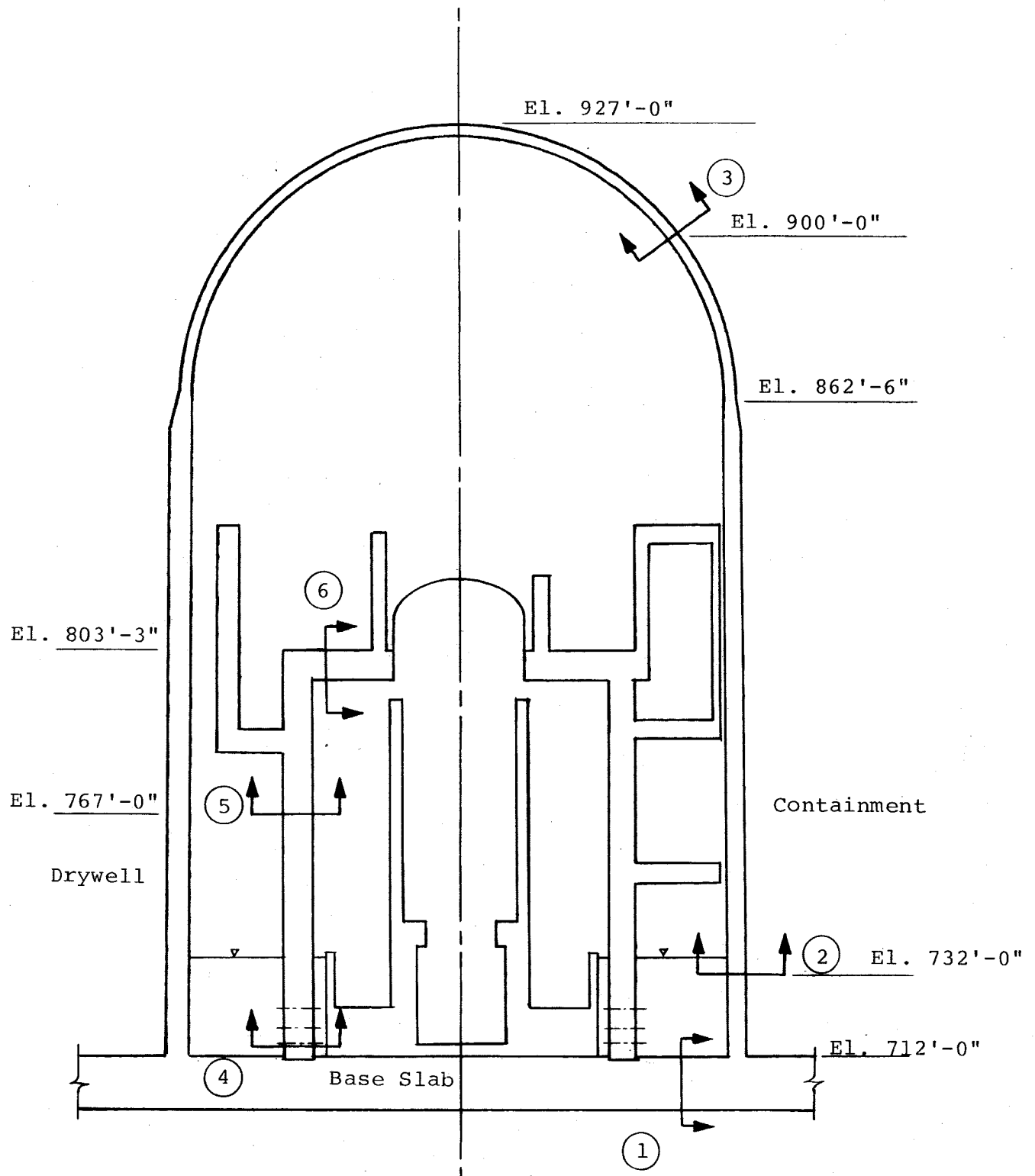
FIGURE B3.8-9

FORCE PLOTS DRYWELL LOCA -
CONDENSATION OSCILLATION



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FIGURE B3.8-10
FORCE PLOTS DRYWELL LOCA -
CHUGGING



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FIGURE B3.8-11

LOCATION OF DESIGN
ASSESSMENT SECTIONS

FIGURES 3.9-1 THROUGH 3.9-5
HAVE BEEN DELETED

CPS-USAR

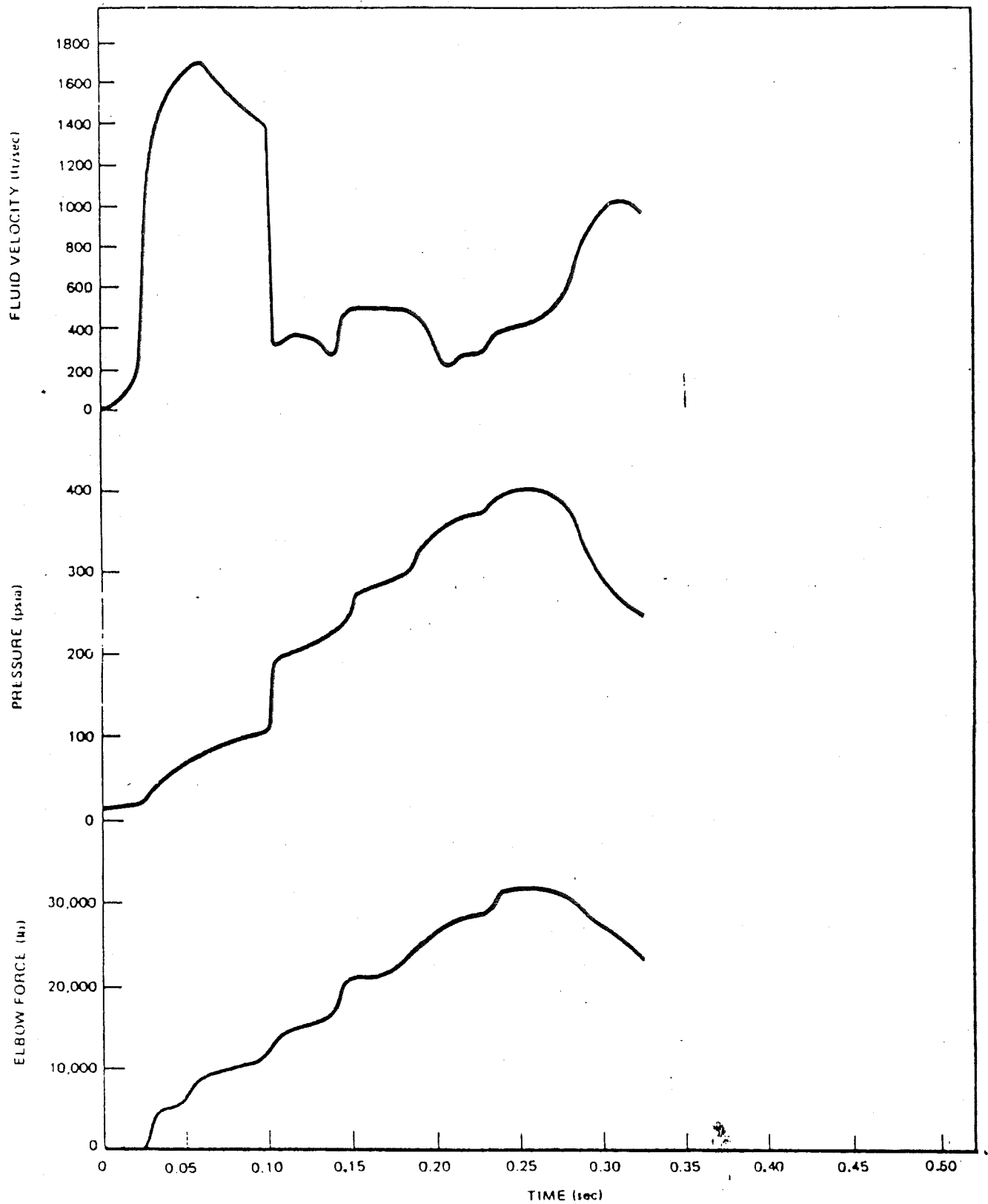


Figure 3.9-6. Typical Relief Valve Transient

CPS-USAR

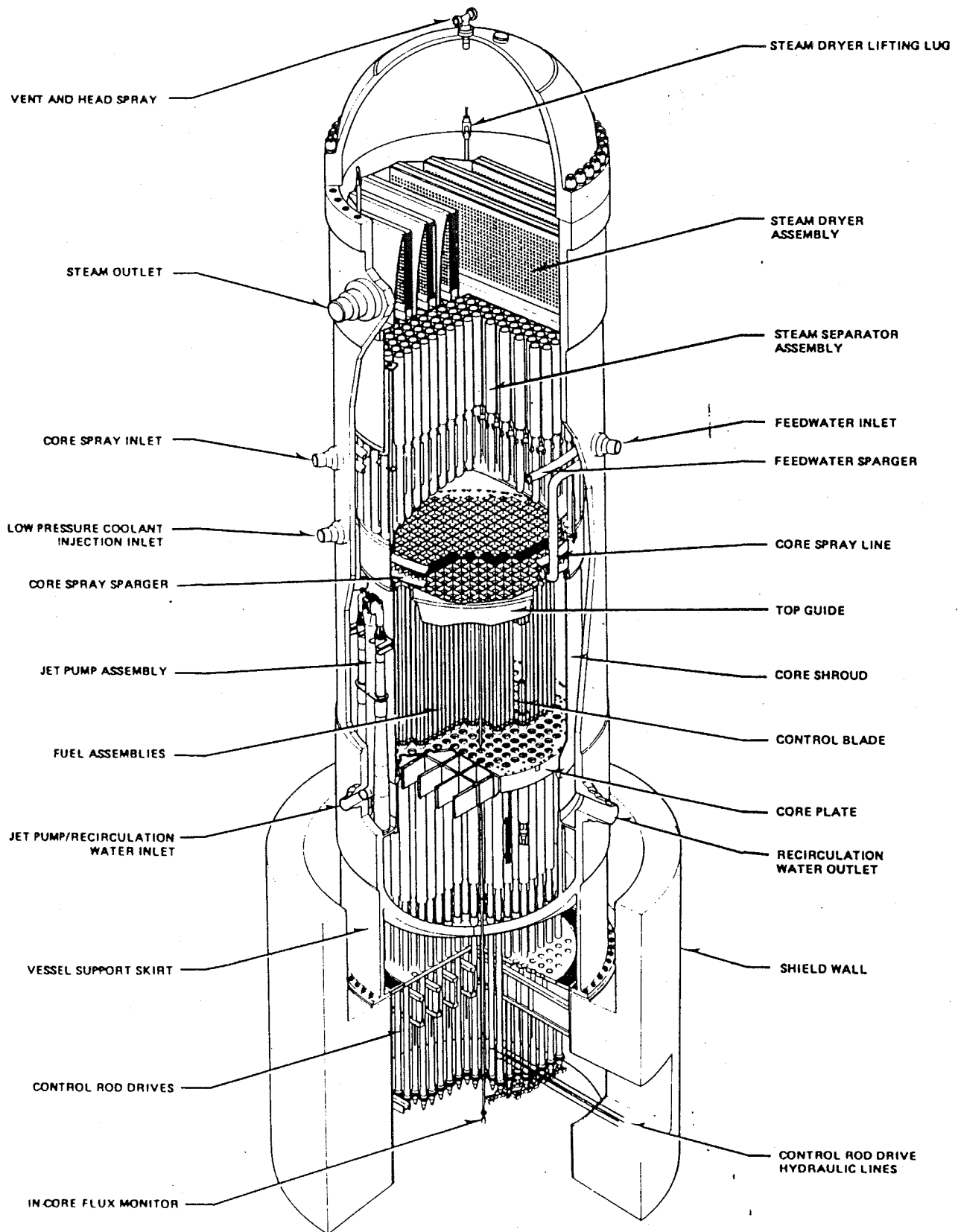


Figure 3.9-7. Reactor Vessel Cutaway

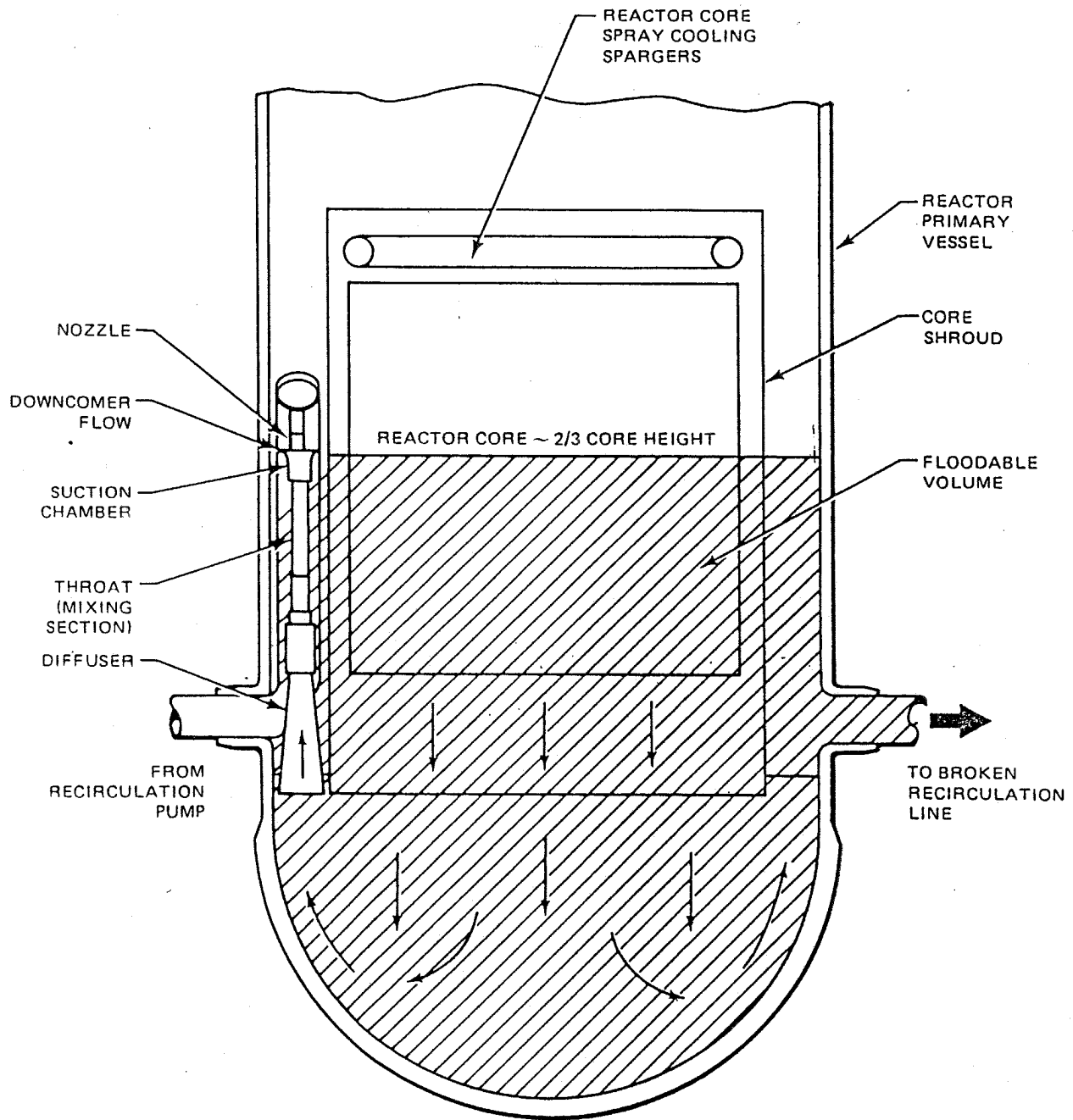


Figure 3.9-8 REACTOR INTERNALS FLOW PATHS

CPS-USAR

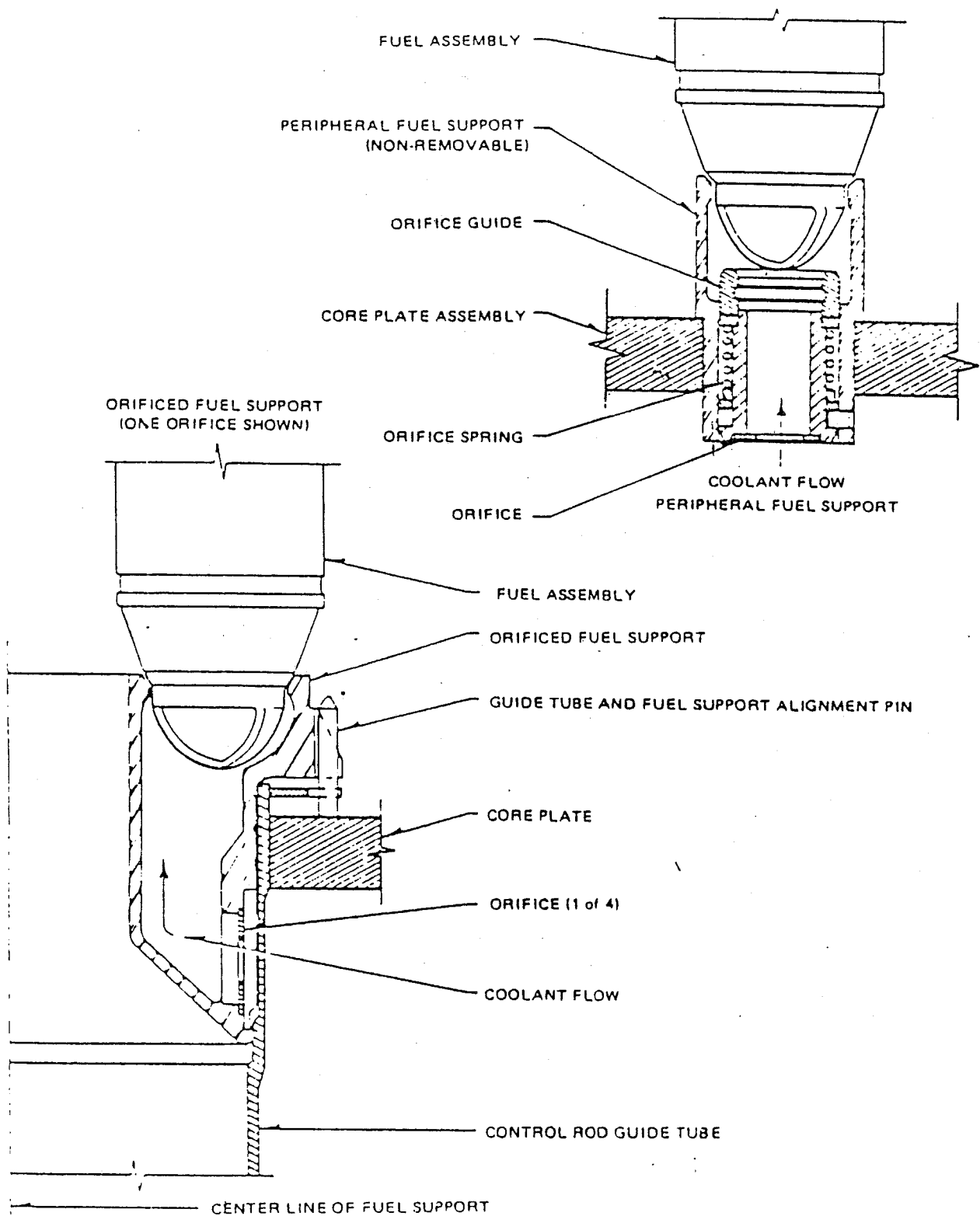


Figure 3.9-9. Fuel Support Pieces

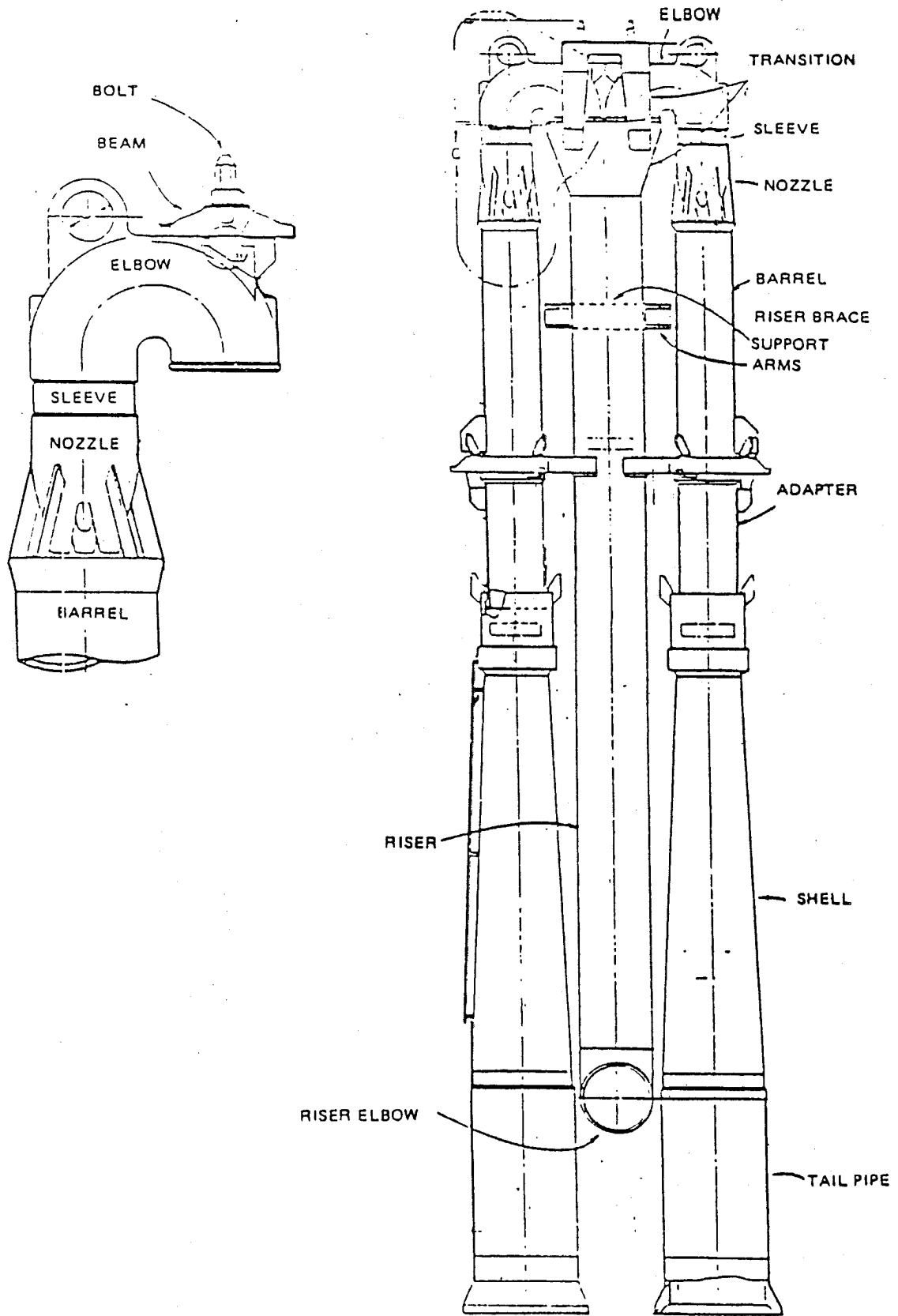


Figure 3.9-10. Jet Pump

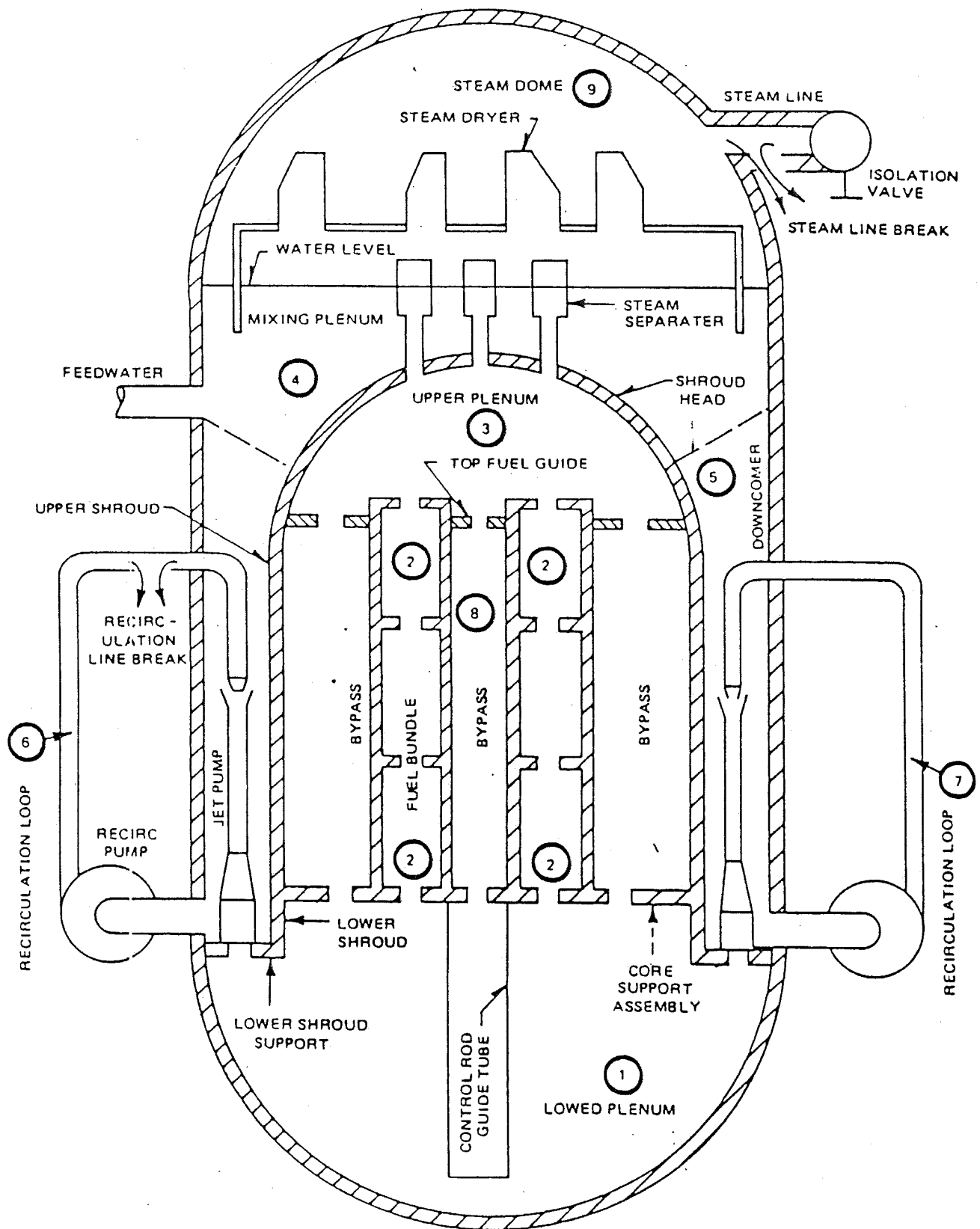
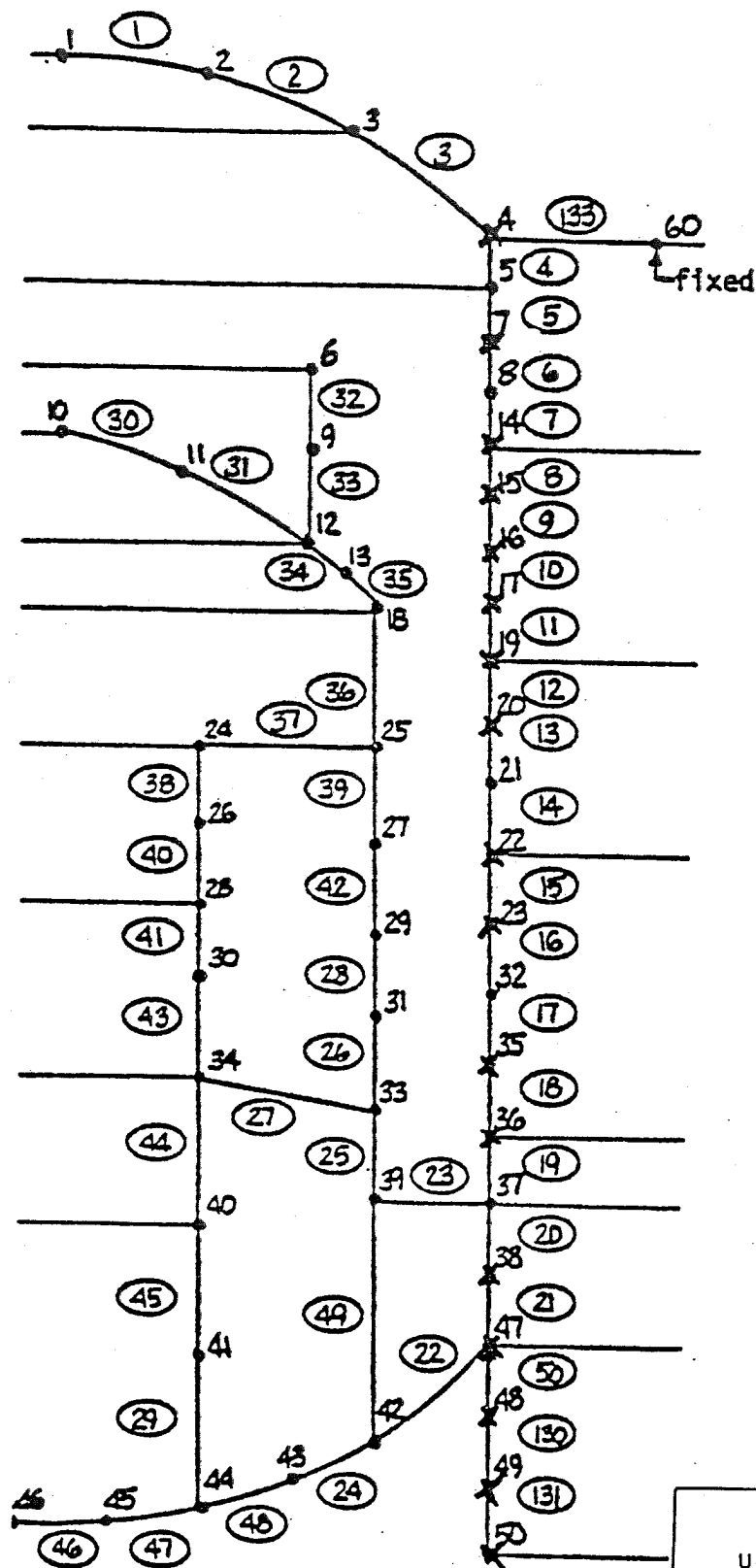




Figure 3.9-11. Pressure Nodes Used for Depressurization Analysis

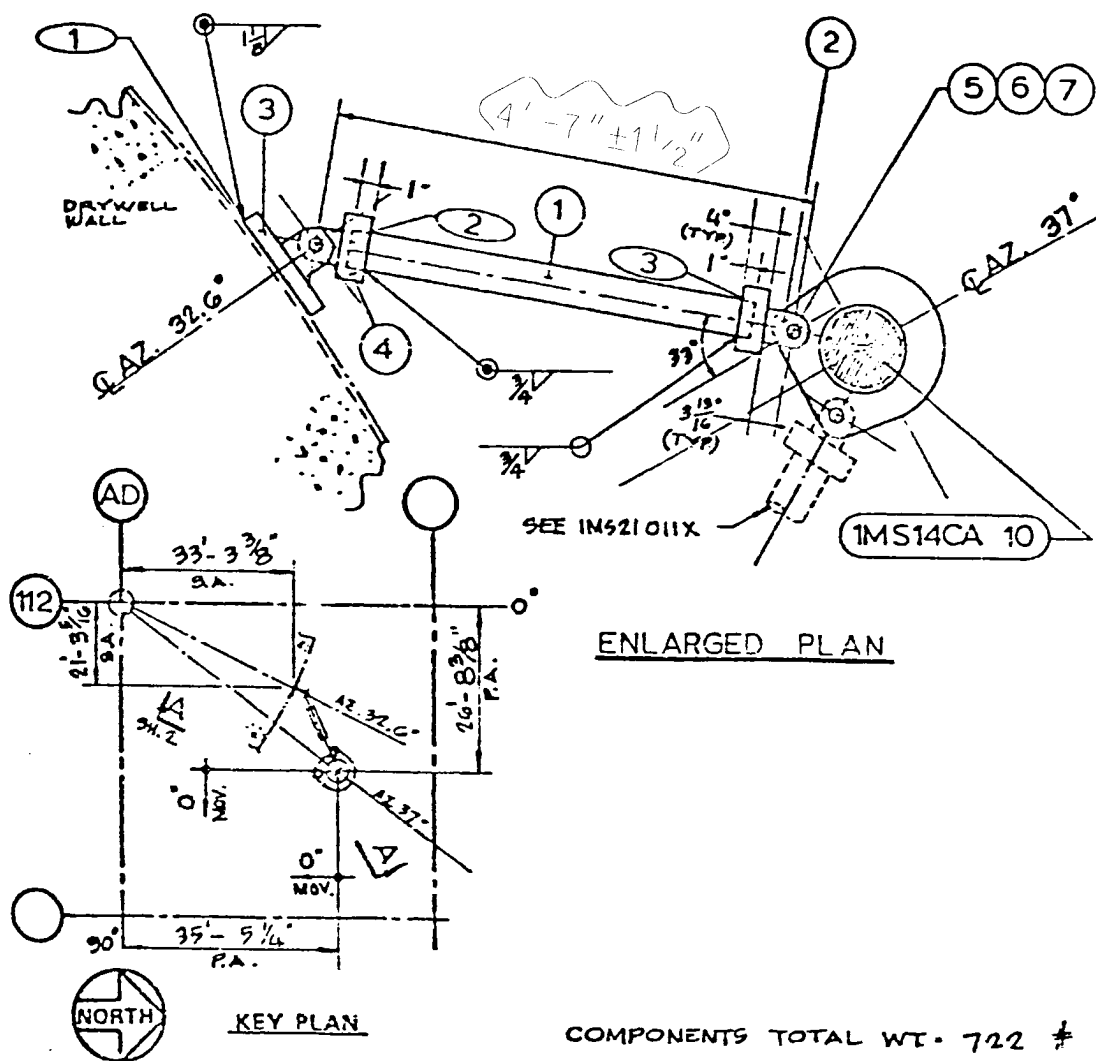


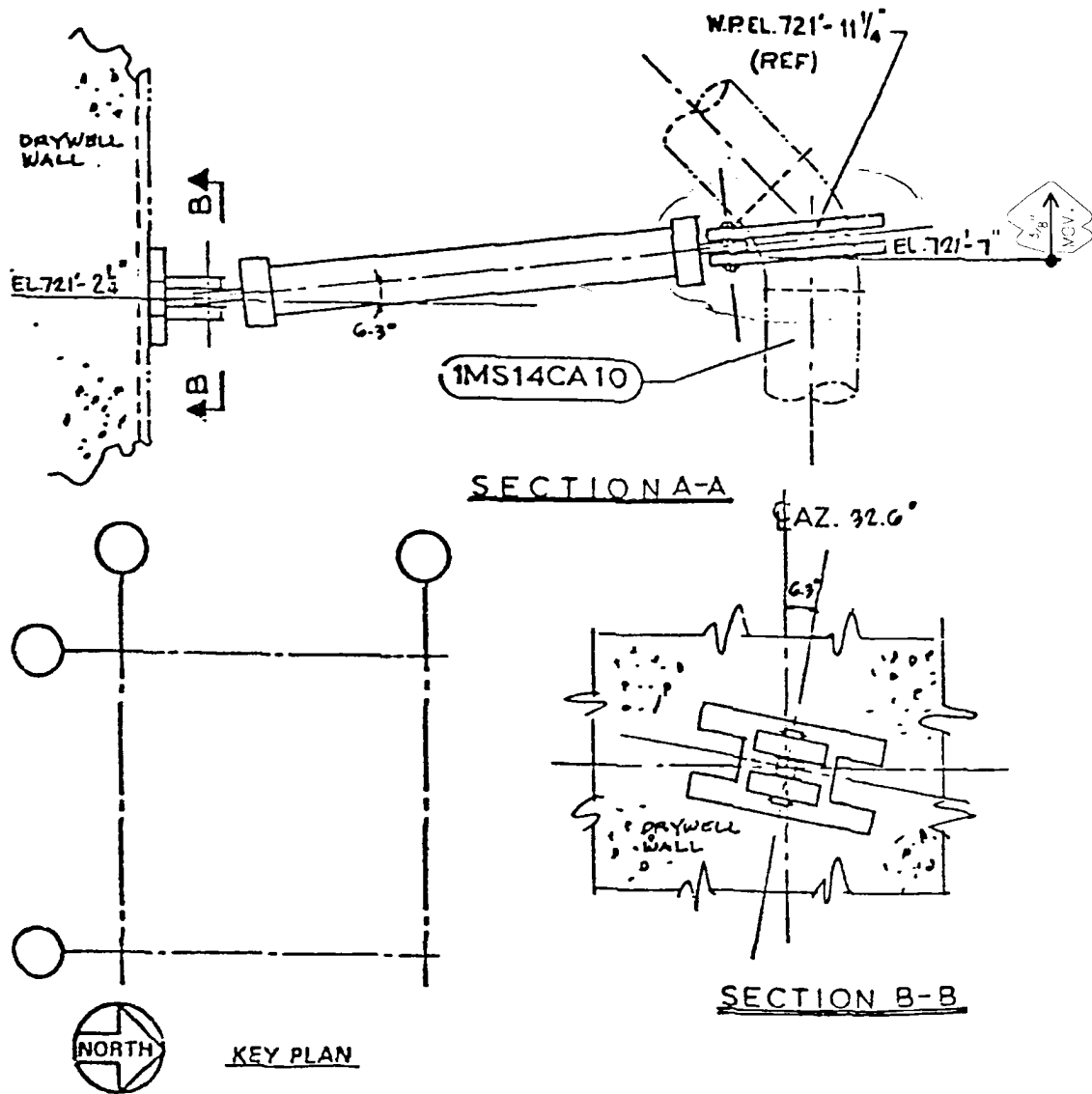
LEGEND	
	SHELL ELEMENT
	MASS POINT

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UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.9-12

Q & R MEB (DSER) 67B
REACTOR PRESSURE VESSELS AND
INTERNALS HORIZONTAL SHELL MATH
MODEL

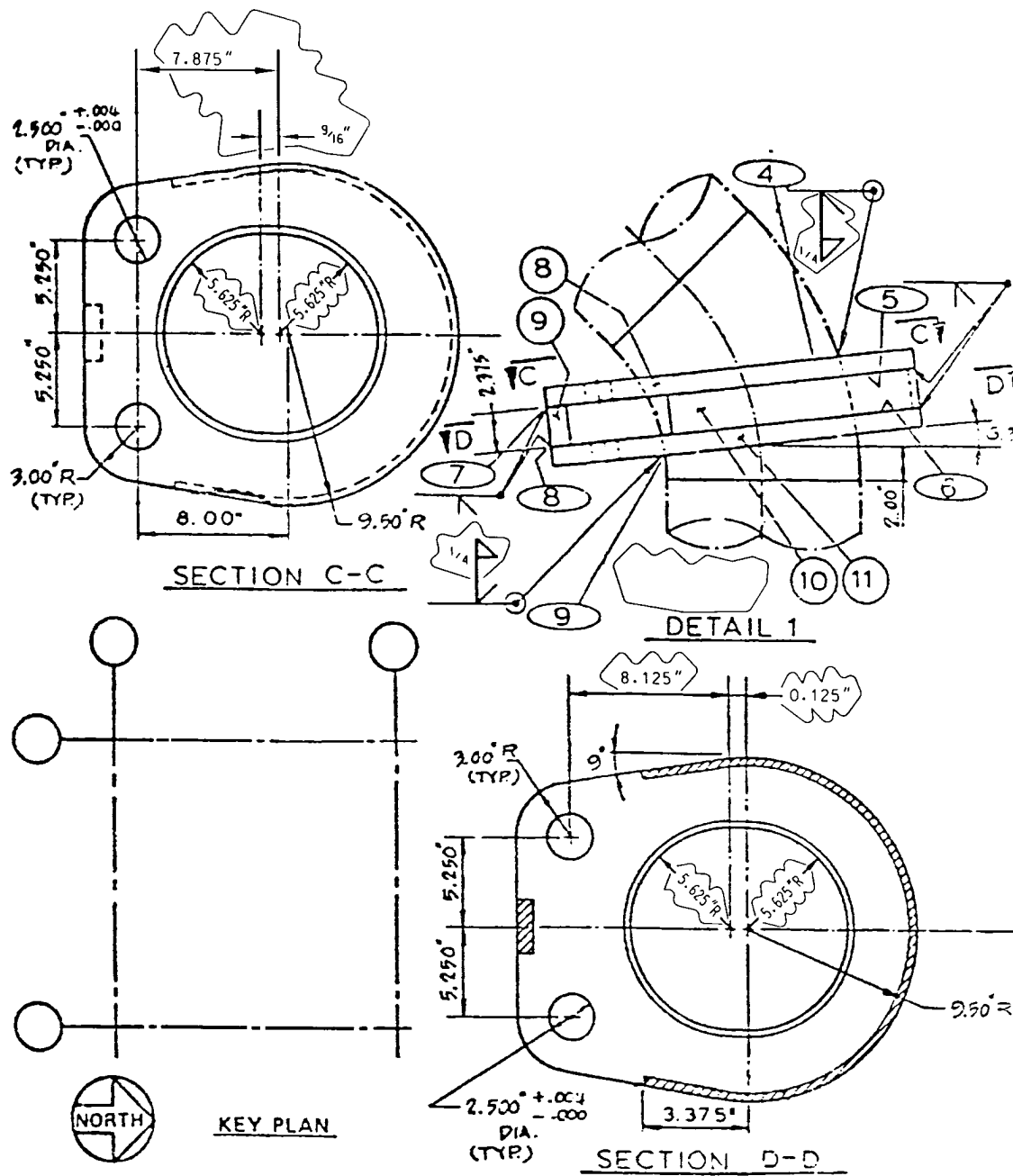




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Figure 3.9-13
(Q & R 210.01)

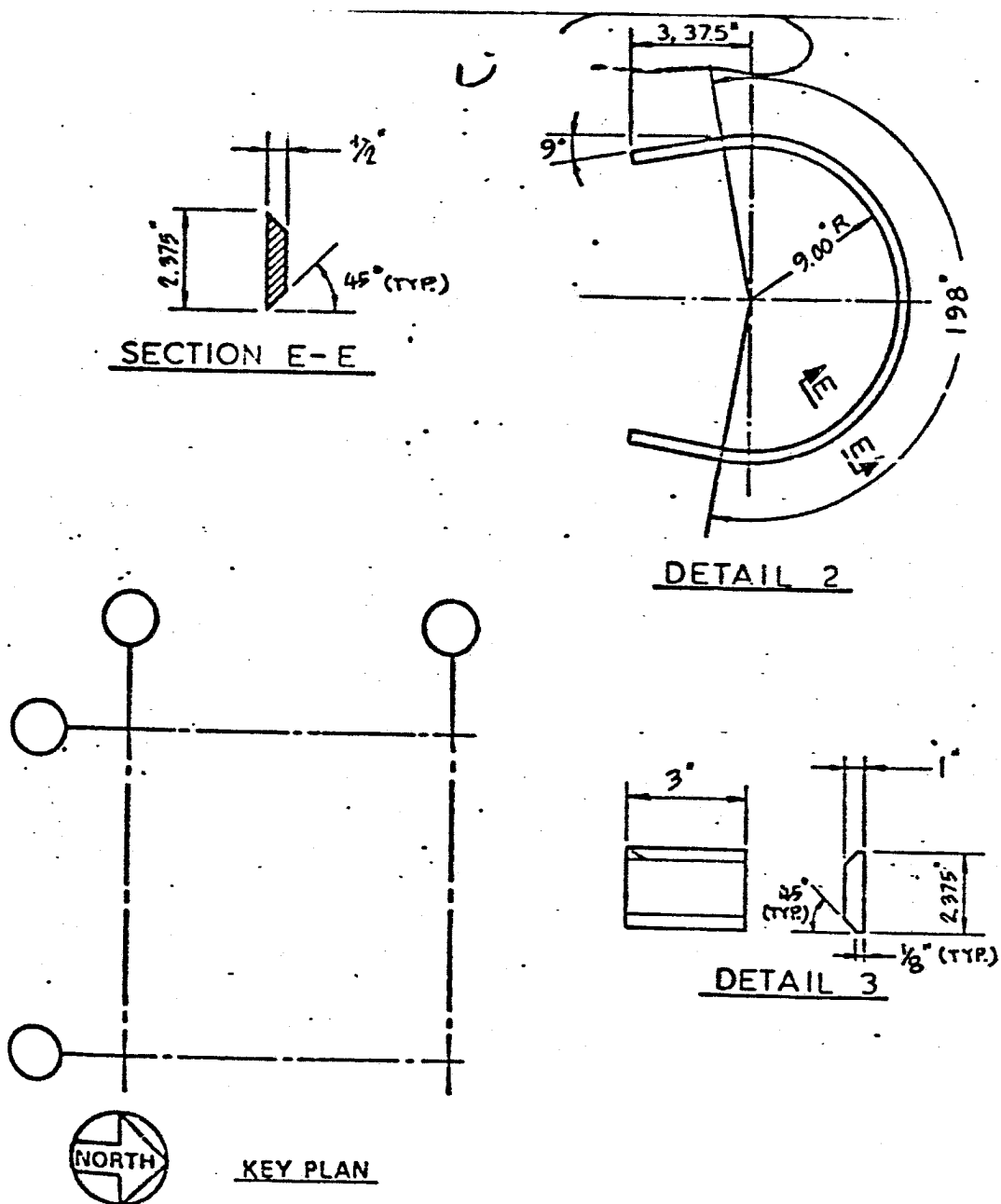
SRV DISCHARGE LINE SUPPORT
WELDED ATTACHMENT DETAIL
SHEET 2 OF 4



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UPDATED SAFETY ANALYSIS REPORT

Figure 3.9-13
(Q & R 210.01)
SRV DISCHARGE LINE SUPPORT
WELDED ATTACHMENT DETAIL

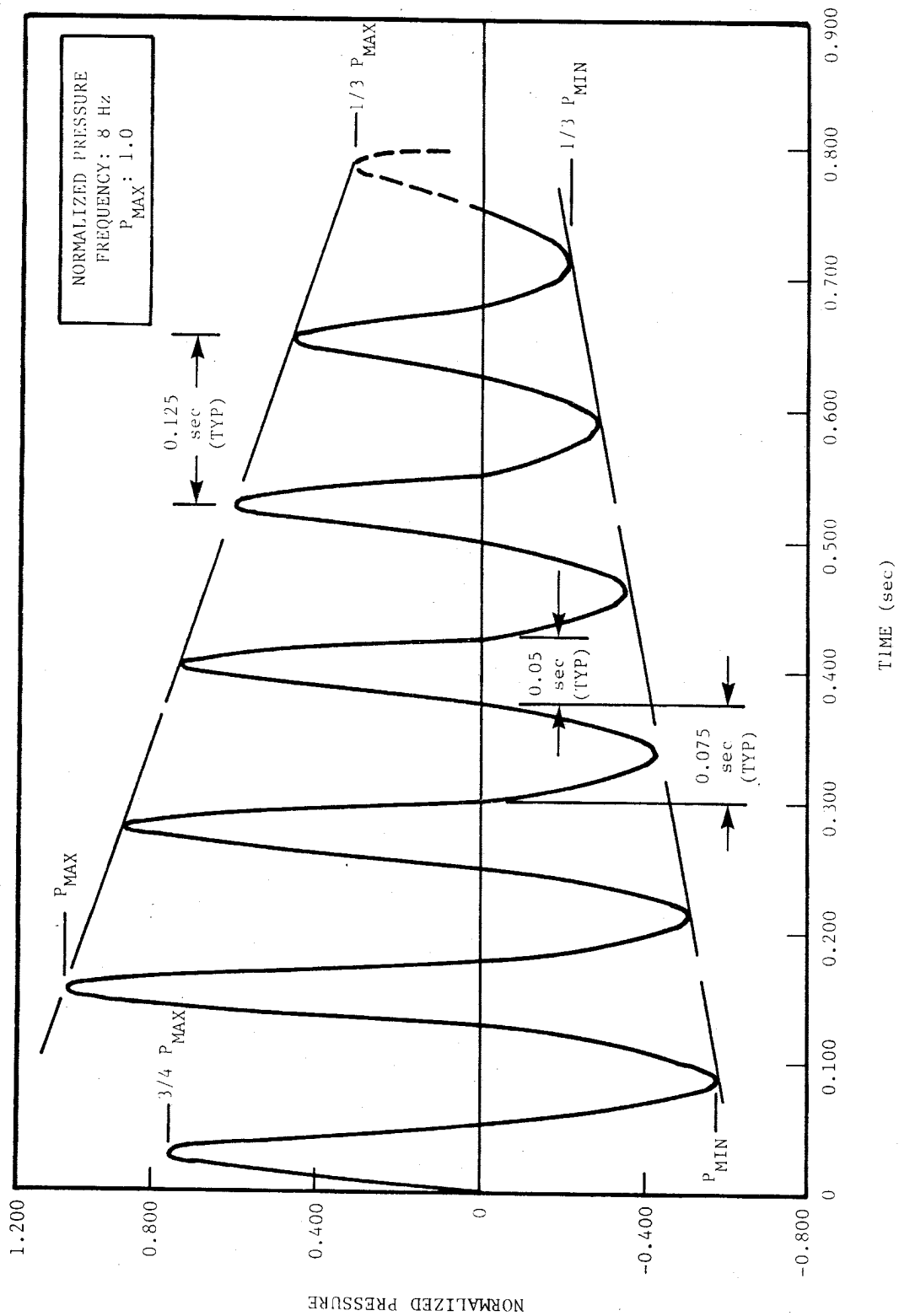
SHEET 3 OF 4



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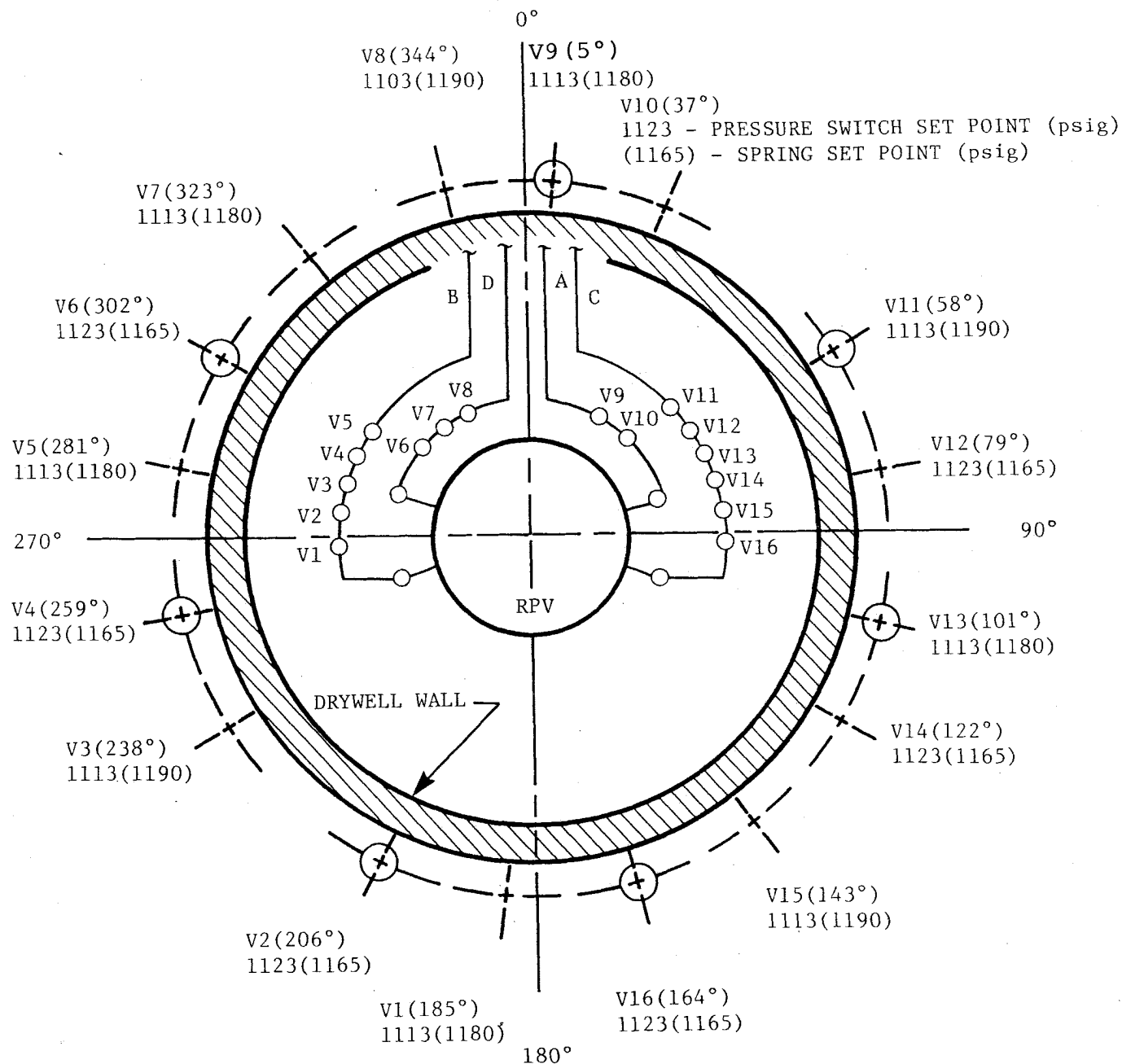
Figure 3.9-13
(Q & R 210.01)

SRV DISCHARGE LINE SUPPORT
WELDED ATTACHMENT DETAIL
SHEET 4 OF 4



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FIGURE A3.9-1
QUENCHER BUBBLE PRESSURE TIME HISTORY



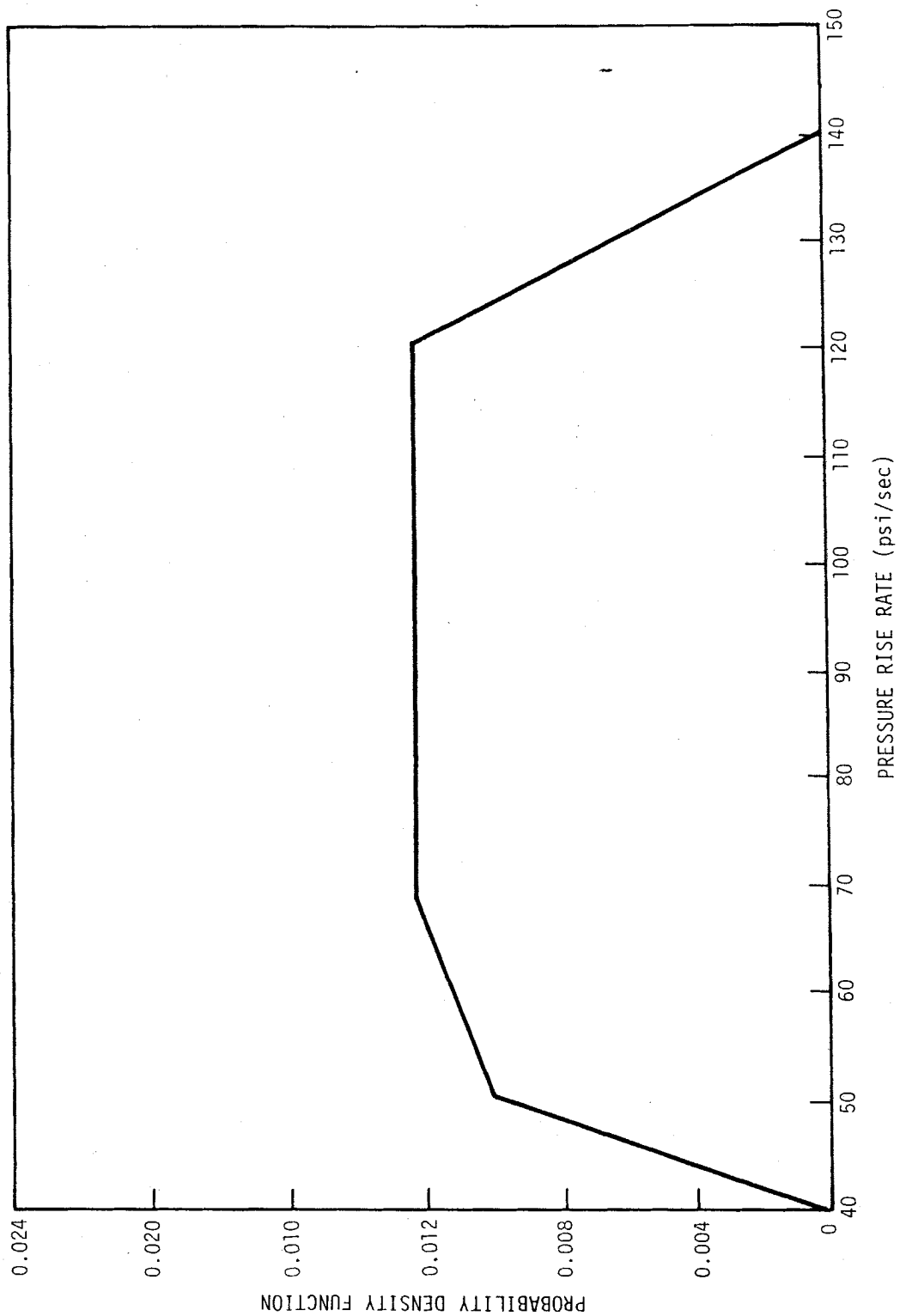
LEGEND: ADS = ○

NOTES: 16 S/R VALVES

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FIGURE A3.9-2

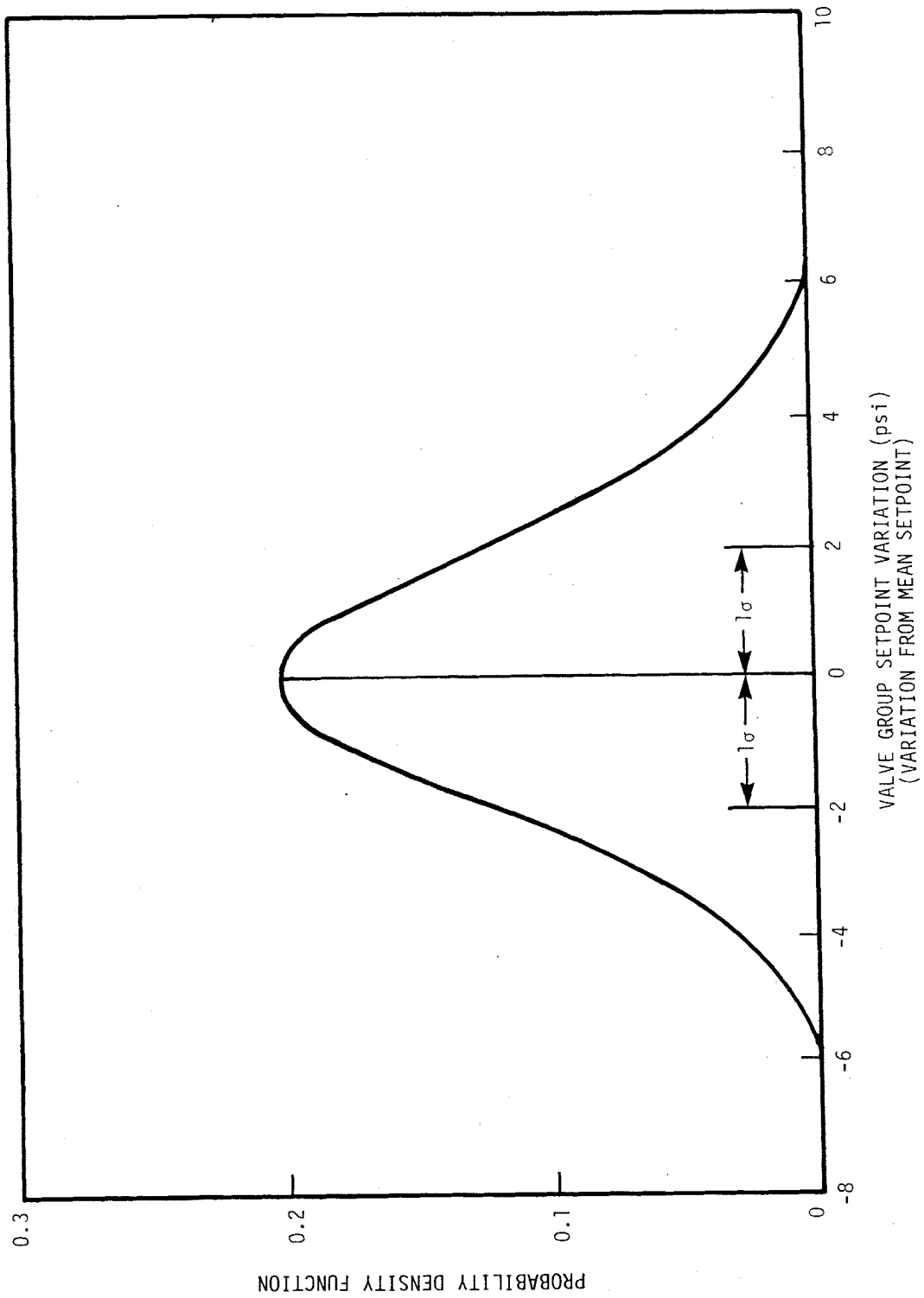
**S/R VALVE DISCHARGE LOCATIONS FOR
218-624 PLANT**



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FIGURE A3.9-3

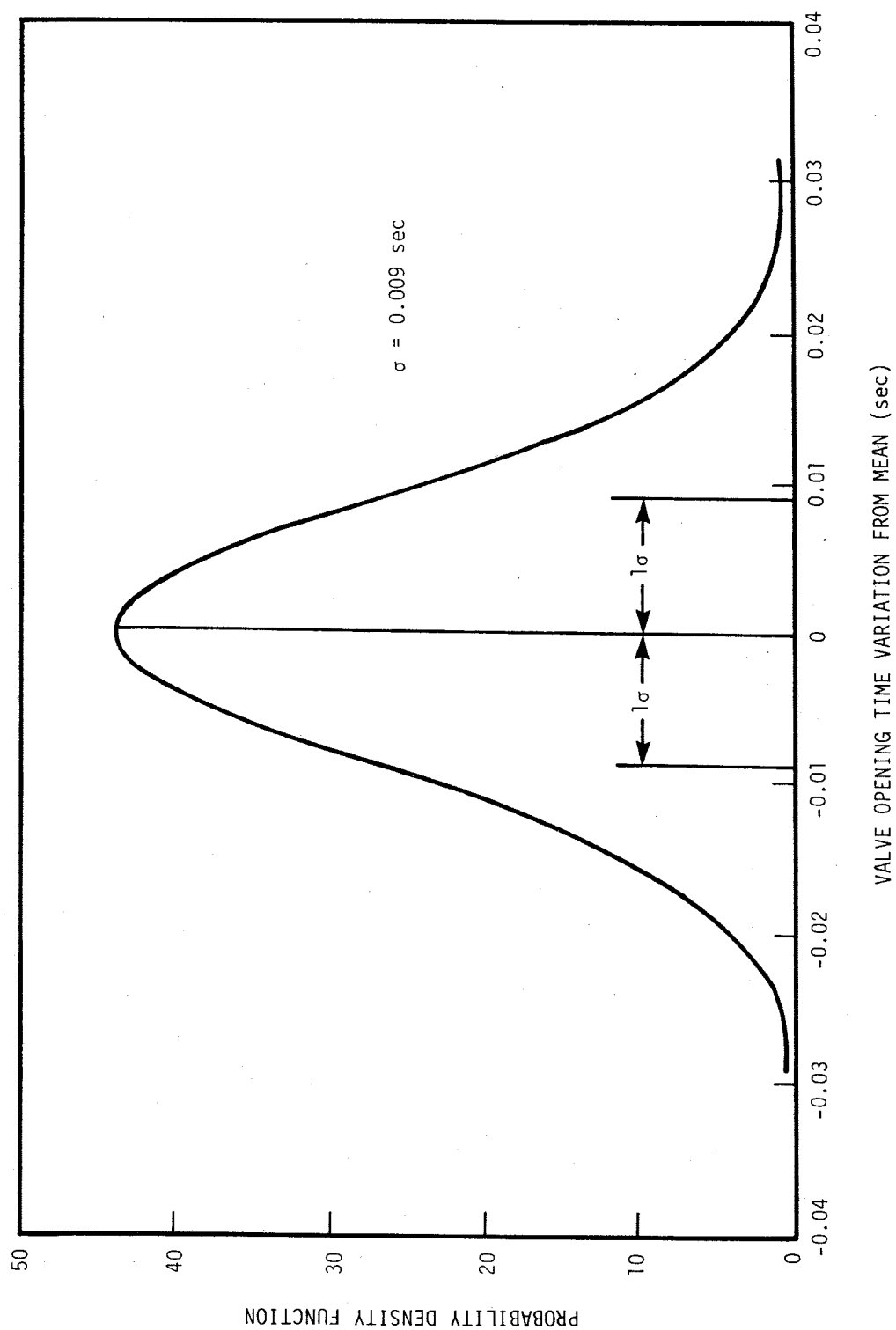
**PROBABILITY DENSITY FUNCTION VS.
PRESSURE RISE RATE**



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FIGURE A3.9-4

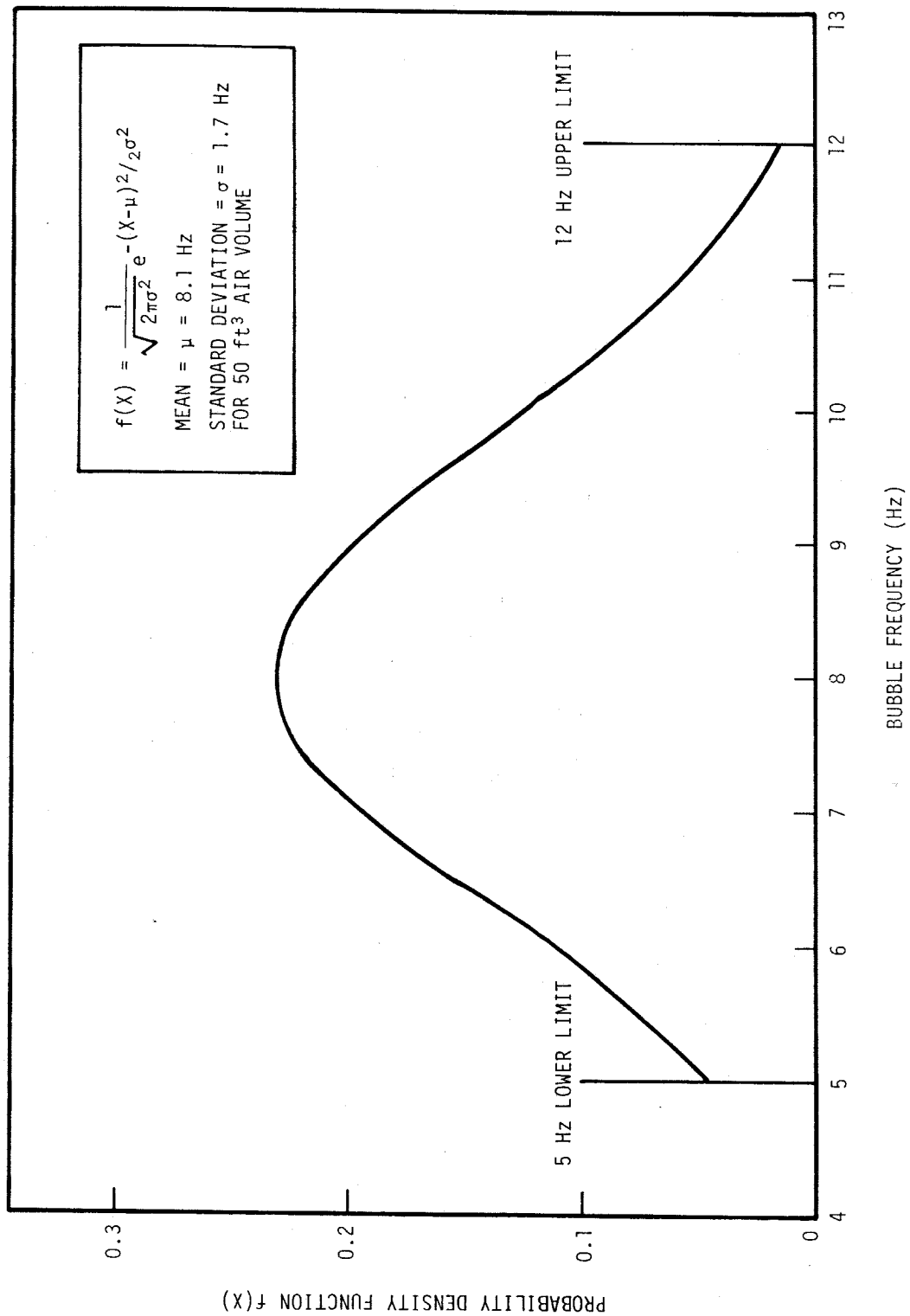
PROBABILITY DENSITY FUNCTION VS.
VALVE GROUP SETPOINT VARIATION



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FIGURE A3.9-5

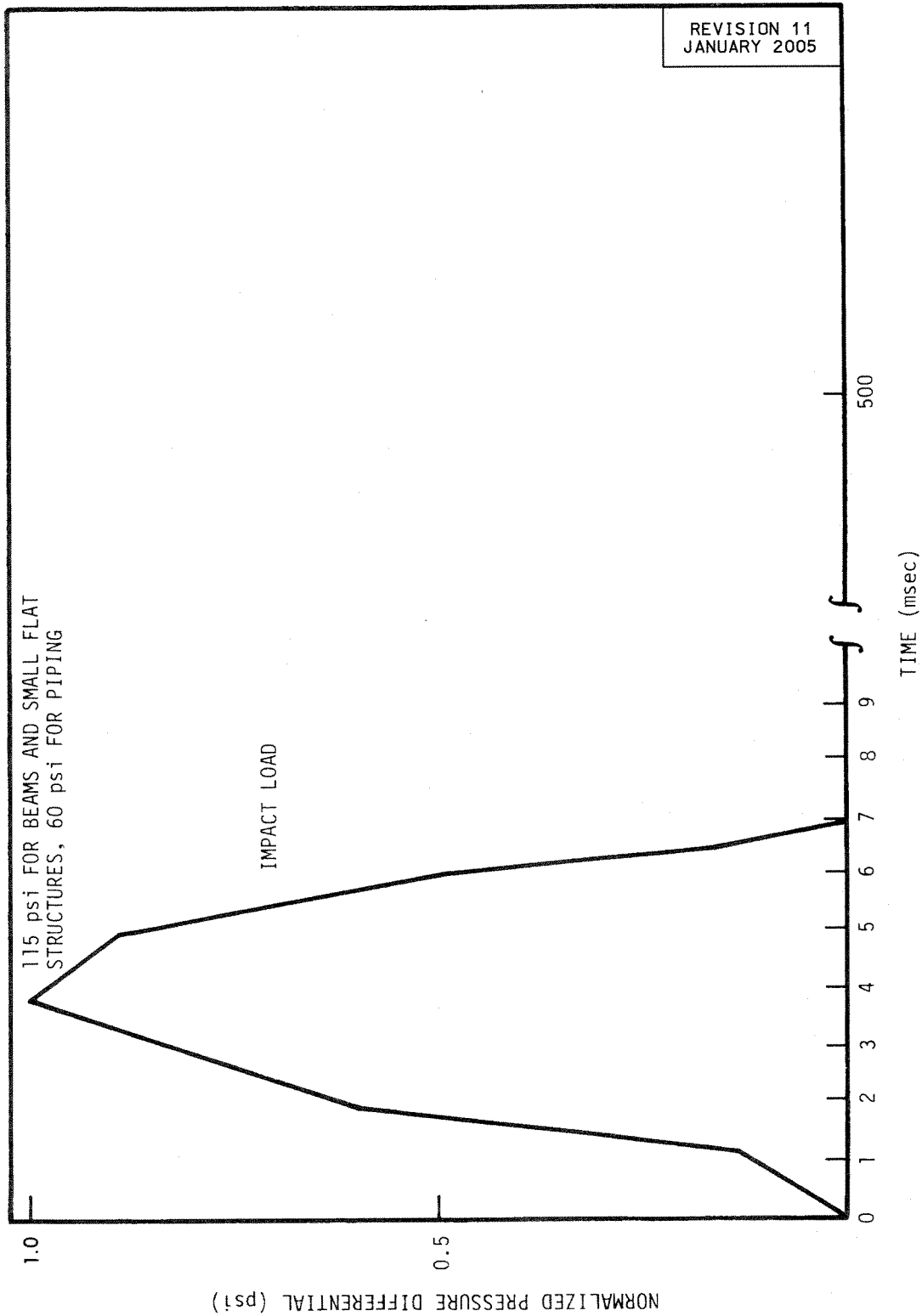
PROBABILITY DENSITY FUNCTION VS.
VALVE OPENING TIME VARIATION
(DIKKERS VALVES)



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FIGURE A3.9-6
 PROBABILITY DENSITY FUNCTION VS.
 BUBBLE FREQUENCY

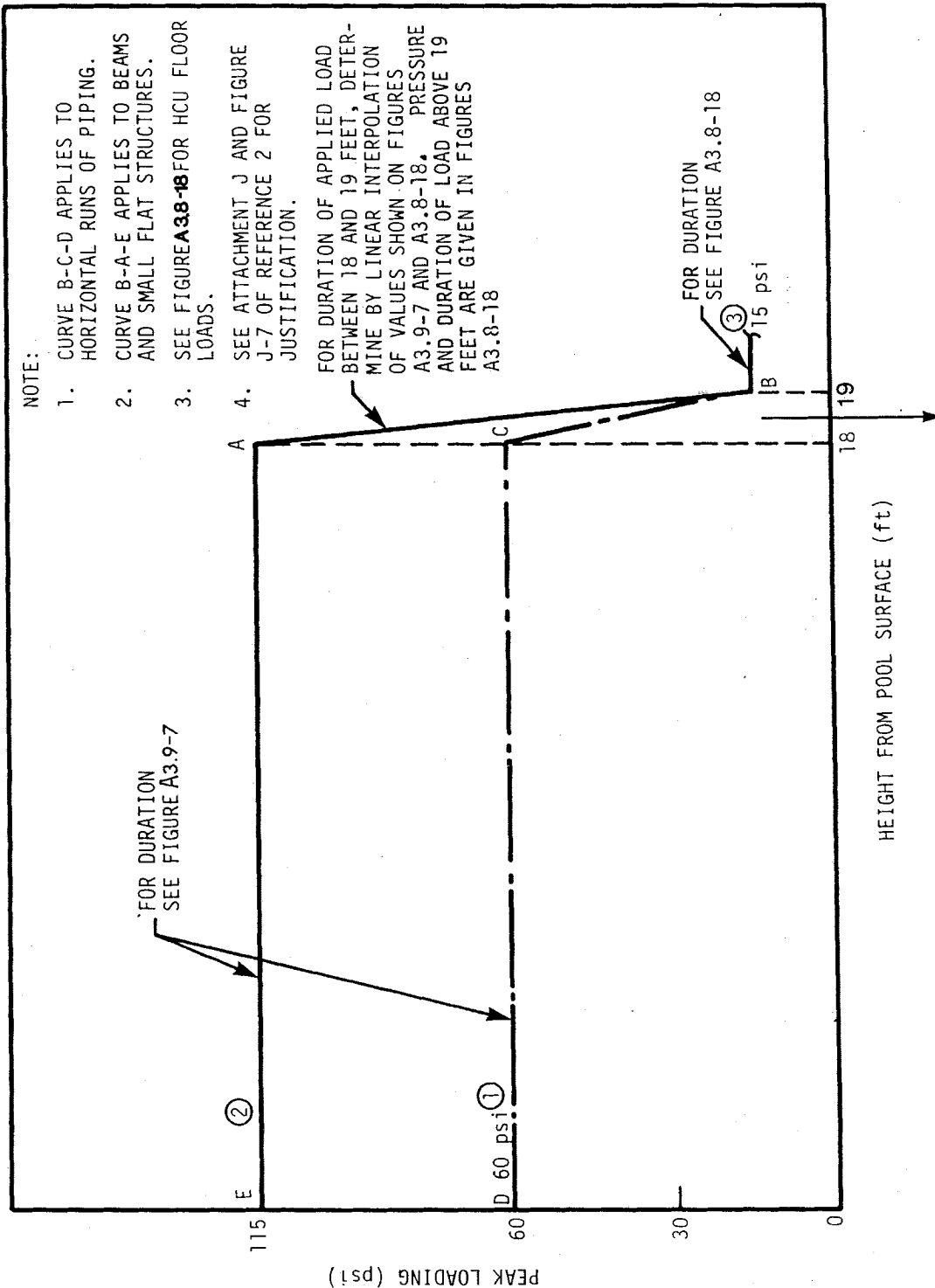
REVISION 11
JANUARY 2005



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FIGURE A3.9-7

PROFILE OF IMPACT LOADS ON SMALL
STRUCTURES WITHIN 19.5 FT OF THE
POOL SURFACE



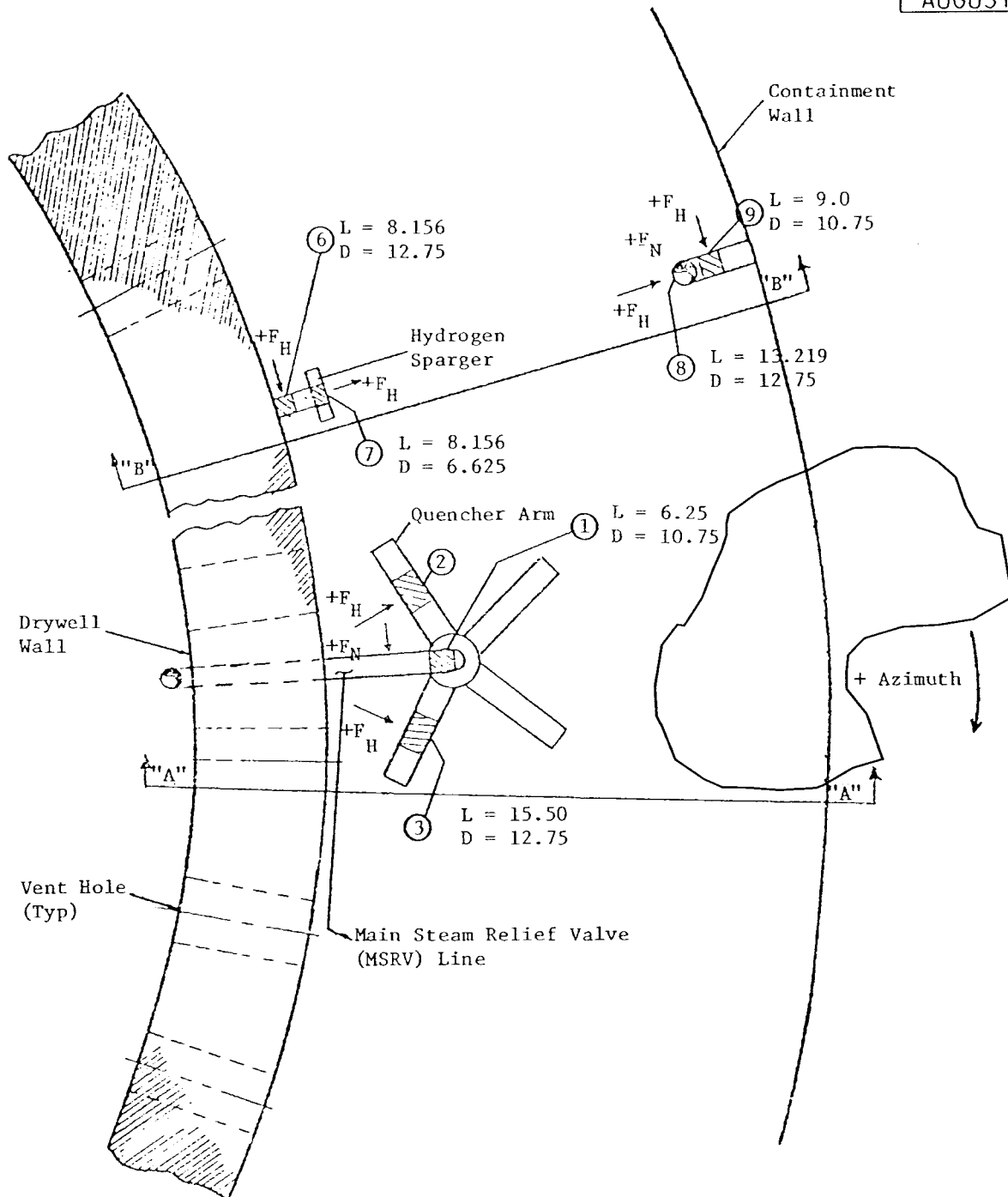
NOTE

ONLY DRAG LOADS ARE APPLIED ABOVE THE HCU FLOOR FROM VELOCITY DETERMINED BY DECELERATION WITH ELEVATION. NO FROTH IMPACT OR DRAG LOAD ABOVE 30 ft.

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FIGURE A3.9-8

SUMMARY OF POOL SWELL LOADING SPECIFICATIONS FOR SMALL STRUCTURES IN THE CONTAINMENT ANNULUS (NOT APPLICABLE TO THE STEAM TUNNEL OR EXPANSIVE HCU FLOORS)



SYMBOL

- - Node Number
- +F_H - Positive Horizontal Direction
- +F_N - Positive Normal Direction
- L - Node Length ~ Inches
- D - Node Diameter ~ Inches

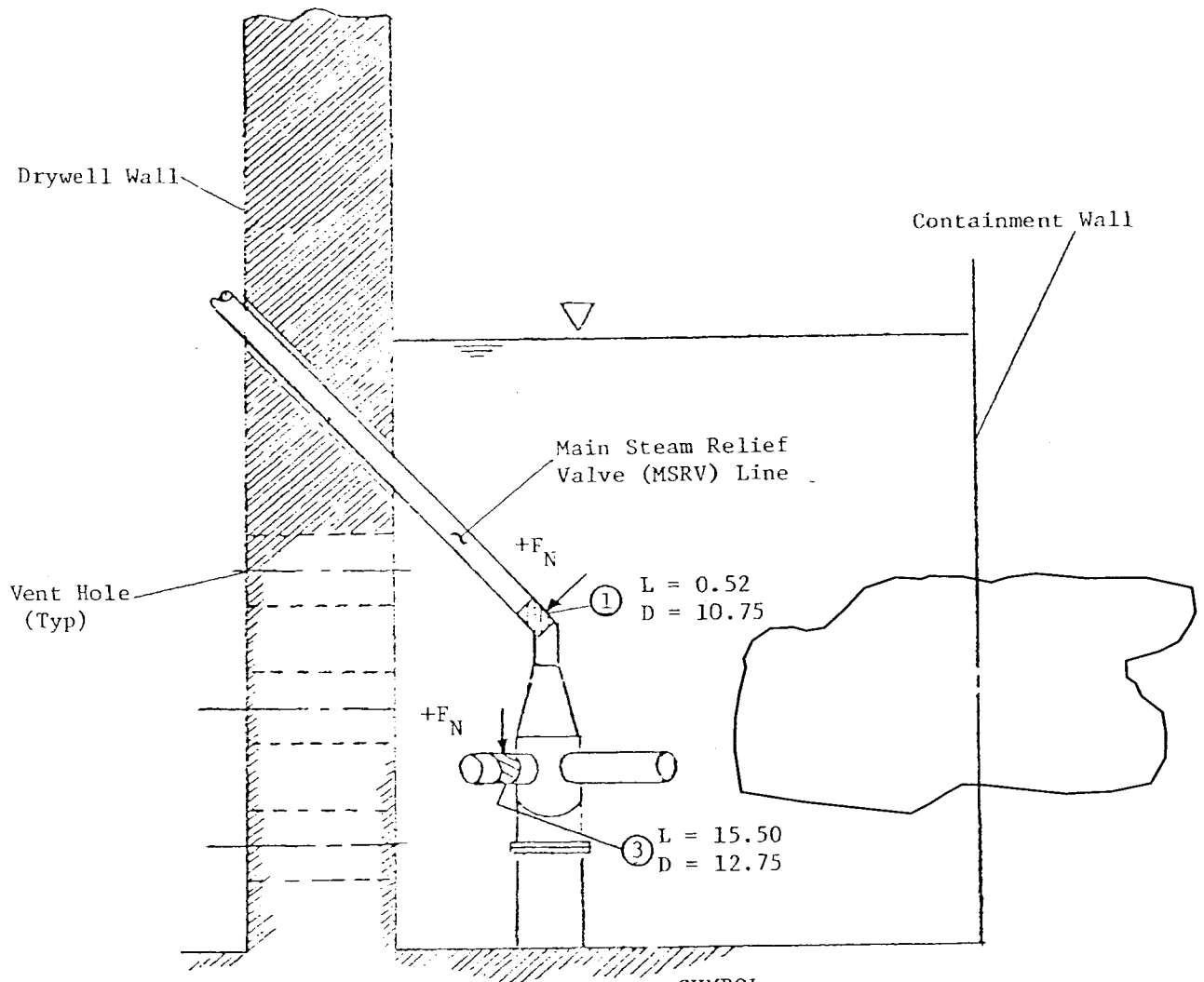
- Notes:**
1. Not to scale
 2. Not actual azimuthal locations of submerged structures

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FIGURE A3.9-10

SCHEMATIC OF SUPPRESSION POOL

REVISION 8
AUGUST 1999



NOTE: Not to Scale

SYMBOL

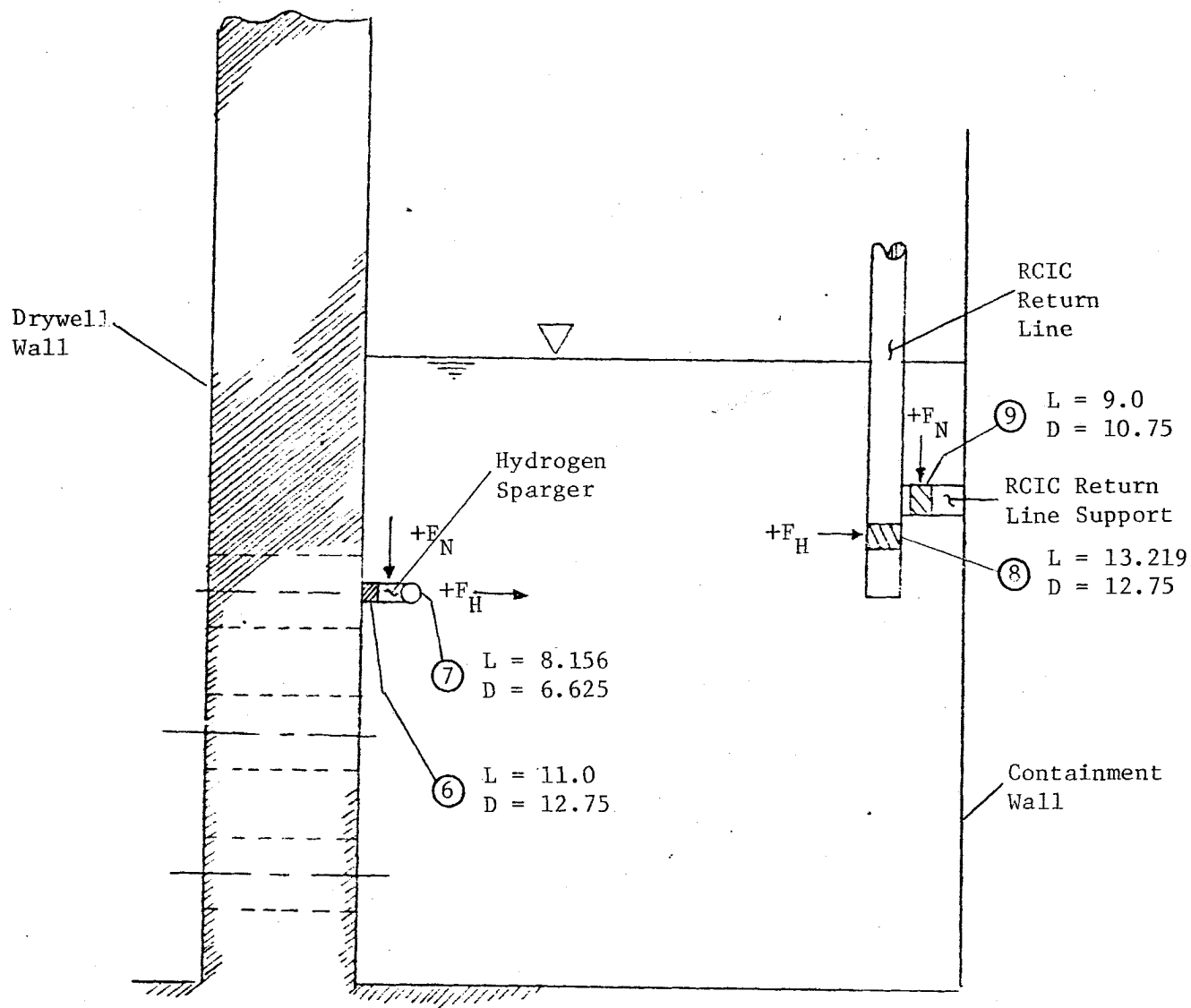
- - Node Numbers
- L - Node Length ~ Inches
- D - Node Diameter ~ Inches
- +F_N - Positive Normal Direction
- +F_H - Positive Horizontal Direction

Figure A3.9-11: Schematic of Suppression Pool - Section "A" - "A"

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FIGURE A3.9-11

SCHEMATIC OF SUPPRESSION POOL
SECTION A-A



NOTE: Not to Scale

SYMBOL

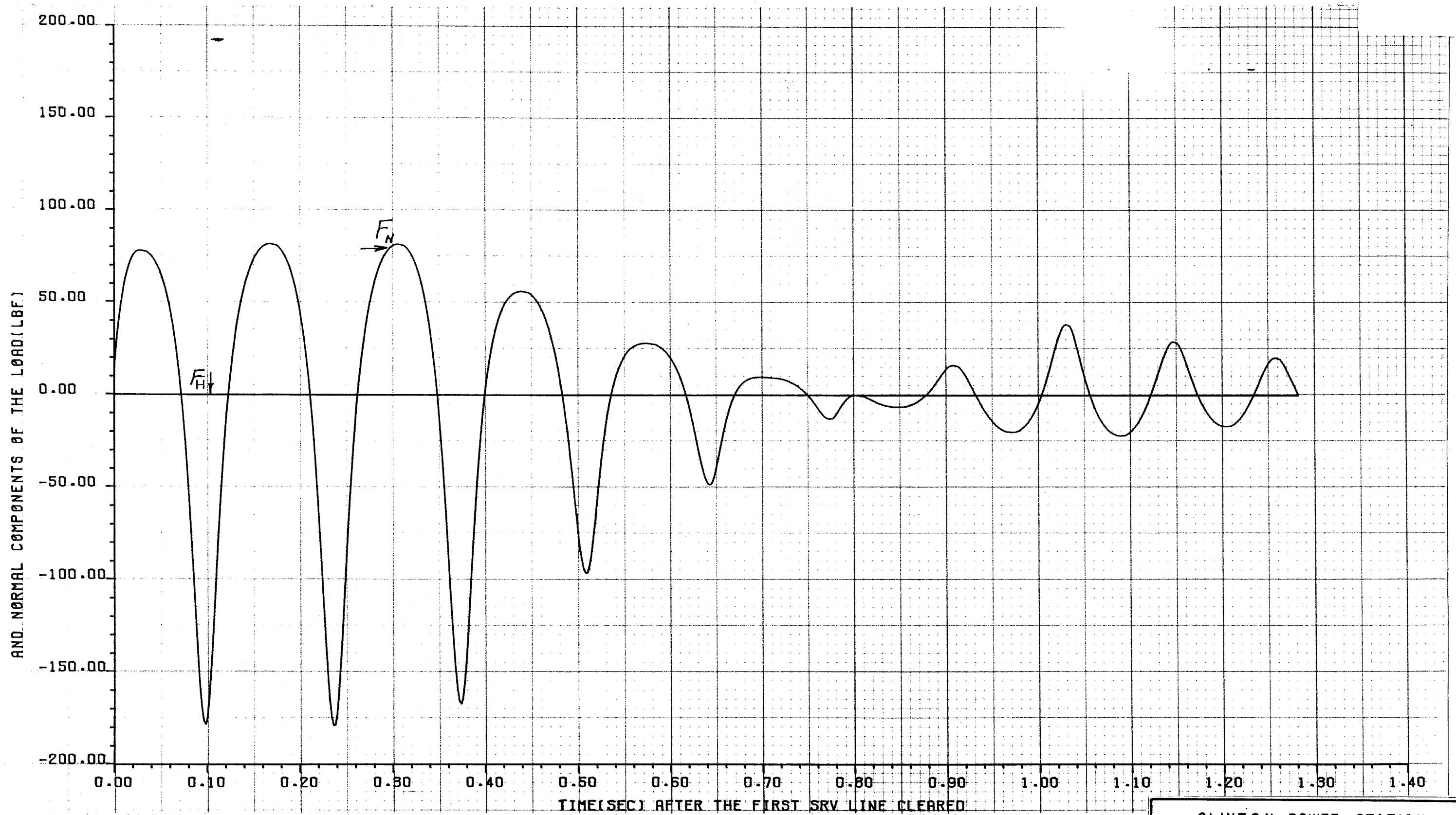
- - Node Number
- L - Node Length ~ Inches
- D - Diameter ~ Inches
- +F_H - Positive Horizontal Direction
- +F_N - Positive Normal Direction

Figure A3.9-12: Schematic of Suppression Pool - Section "B" - "B"

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FIGURE A3.9-12

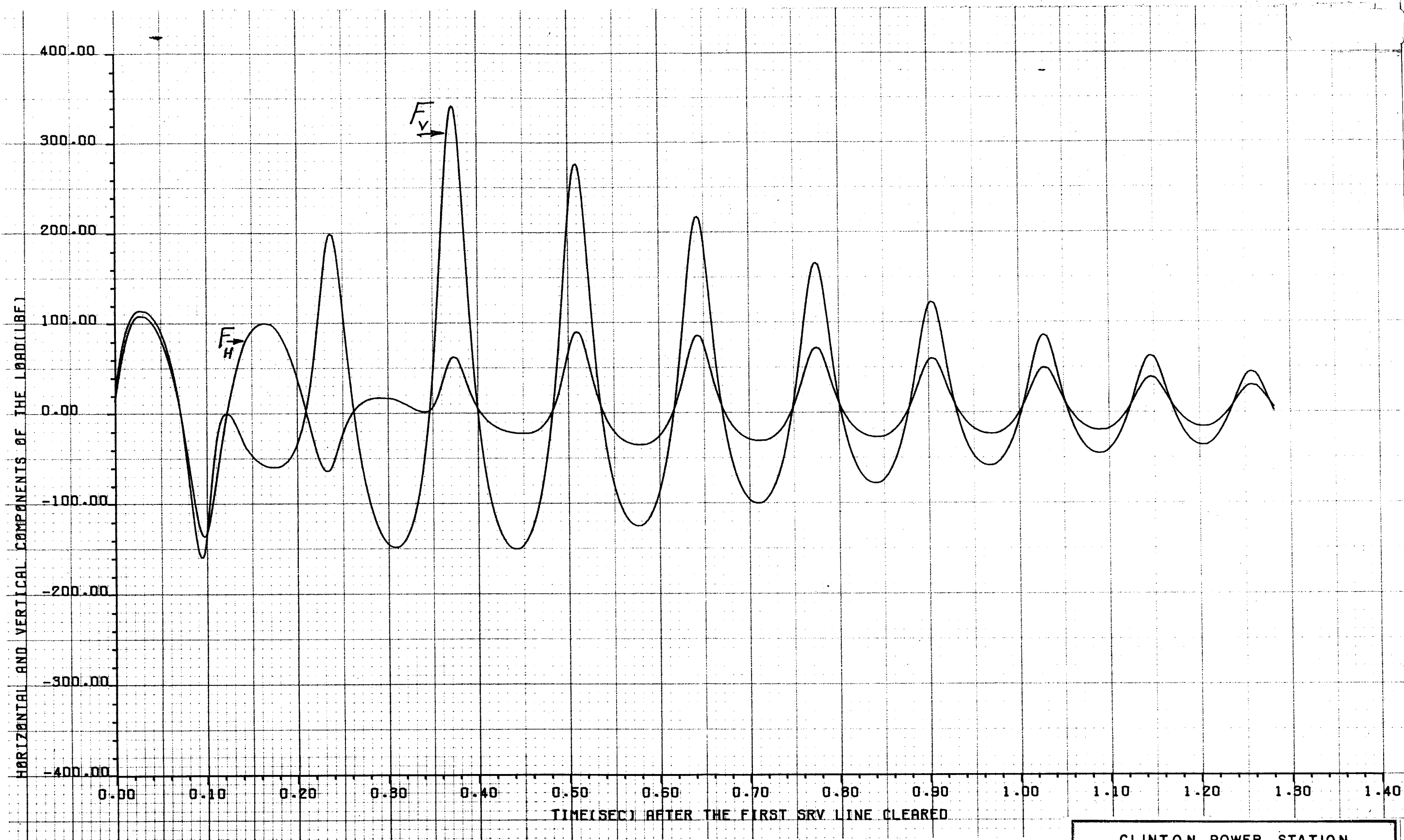
SCHEMATIC OF SUPPRESSION POOL
SECTION B-B



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FIGURE A3.9-13

SVSP SRV LOAD ON SRVDL2
NODE 1 (MIDPOINT)

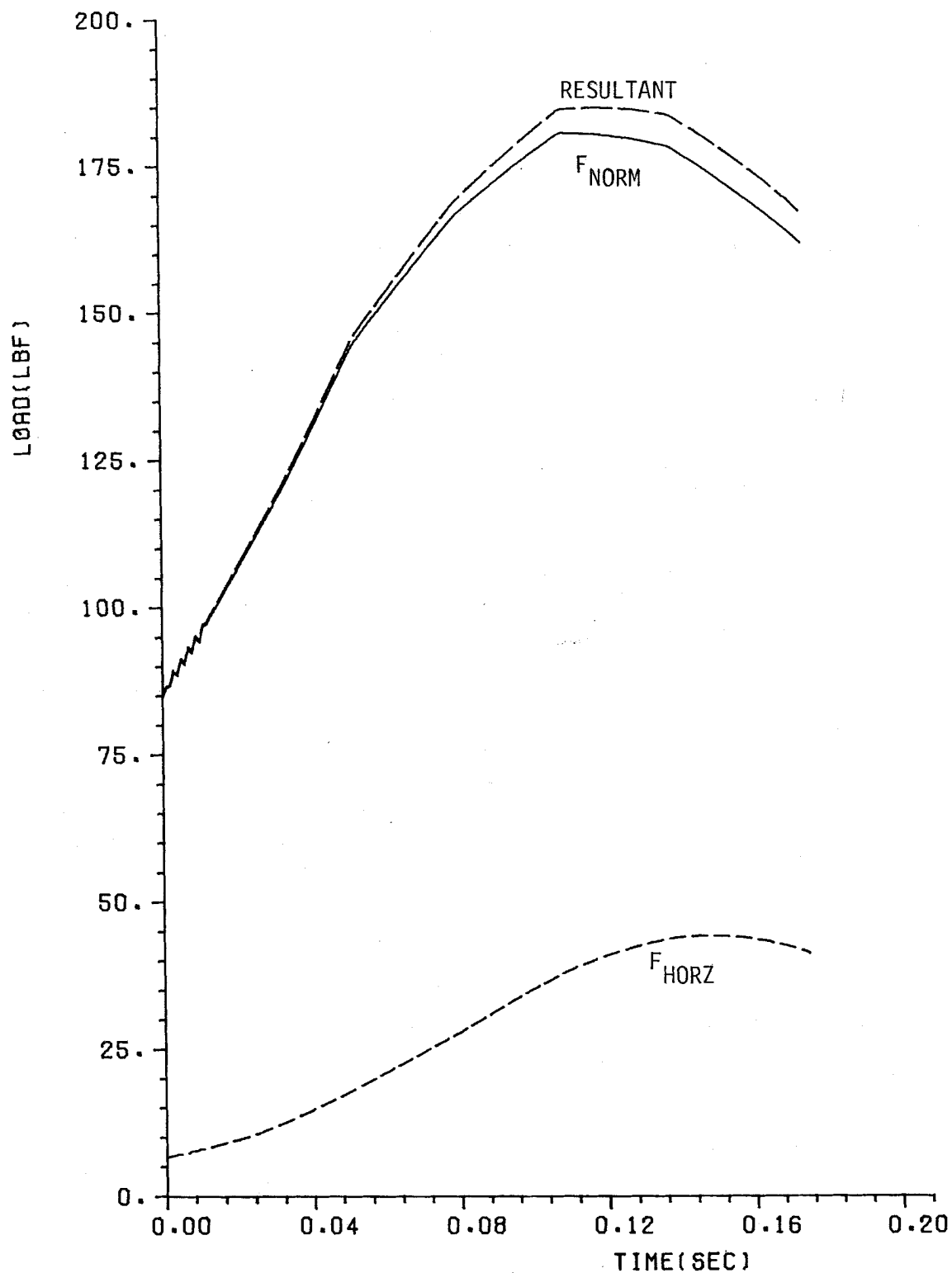


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FIGURE A3.9-14

SVSP SRV LOAD ON QUENCHER ARM 2
NODE 2 (MIDPOINT)

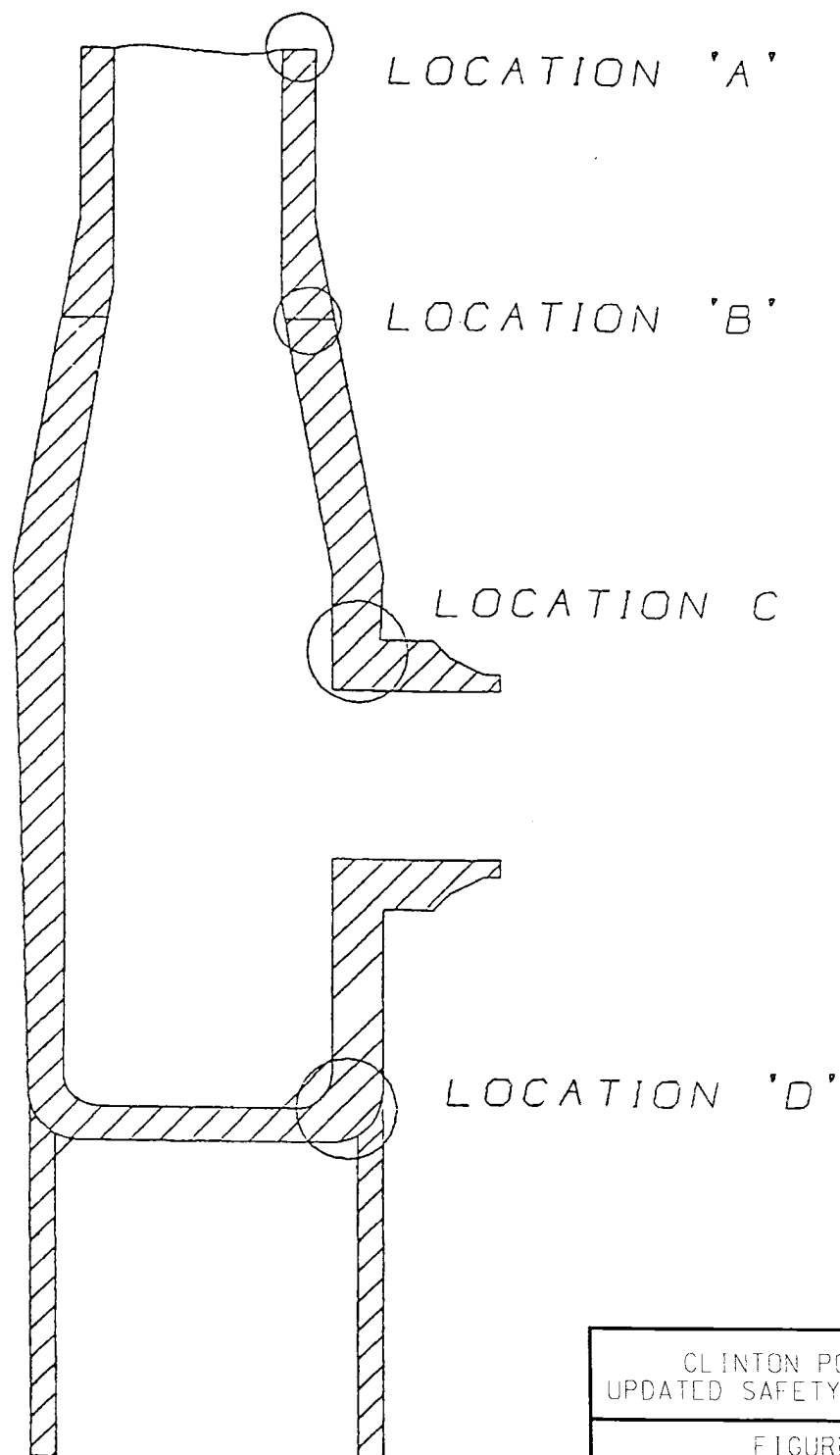
FIGURES A3.9-15 THROUGH A3.9-22
HAVE BEEN DELETED



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FIGURE A3.9-23

TYPICAL LOAD TIME HISTORY FOR SECTION 2,
LOCA CHARGING AIR BUBBLE



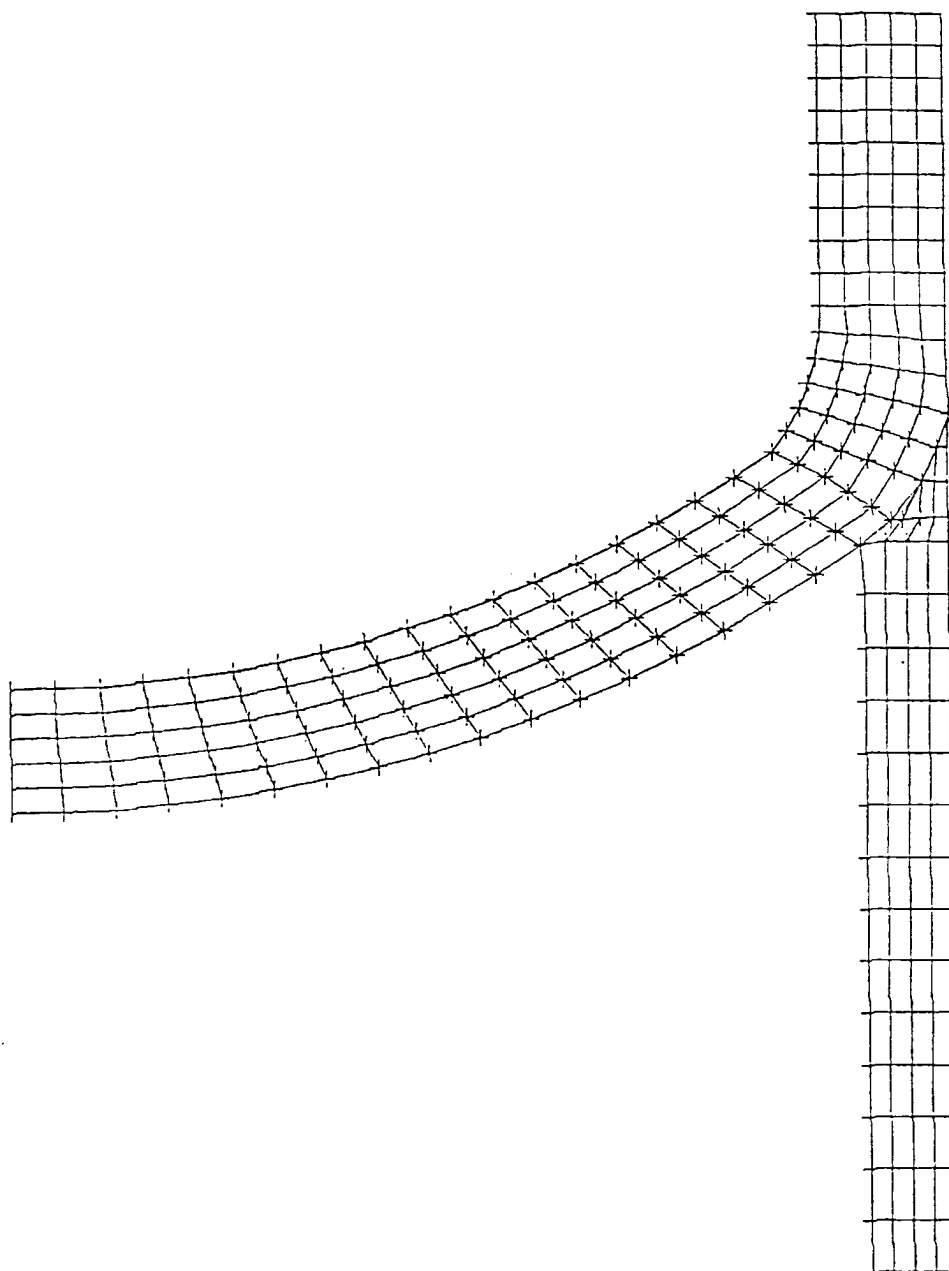
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FIGURE B3.9-1

CLINTON X-QUENCHER
CRITICAL LOCATIONS

Q&R 210.02

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JANUARY 2001



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FIGURE B3.9-2
FINITE ELEMENT MODEL OF LOCATION "D"
Q&R 210.02

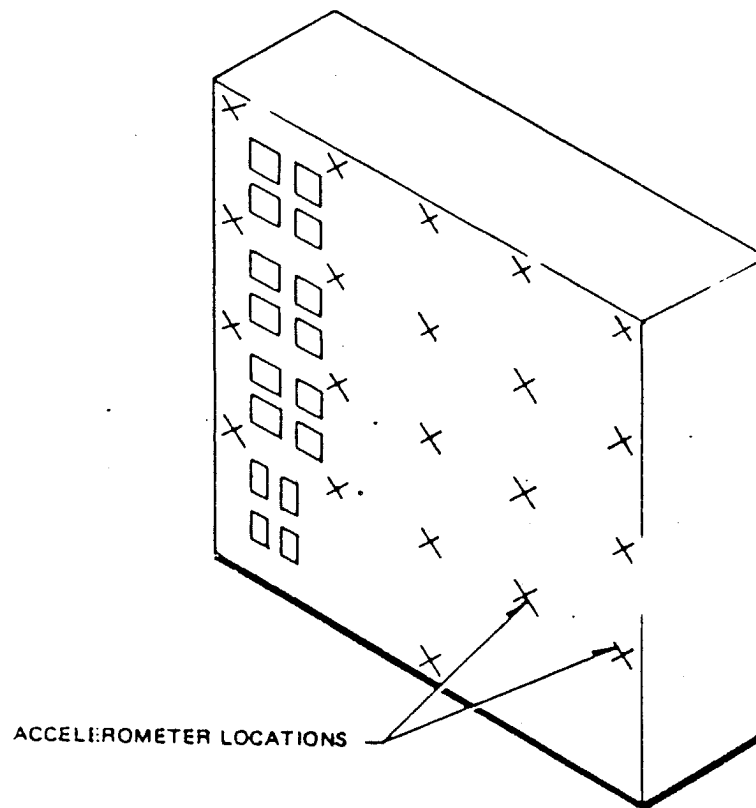


Figure 3.10-1. Typical Vertical Board (Benchboard Would be the Same with a Bench Section Protruding Out About Half-way Down)

CPS-USAR

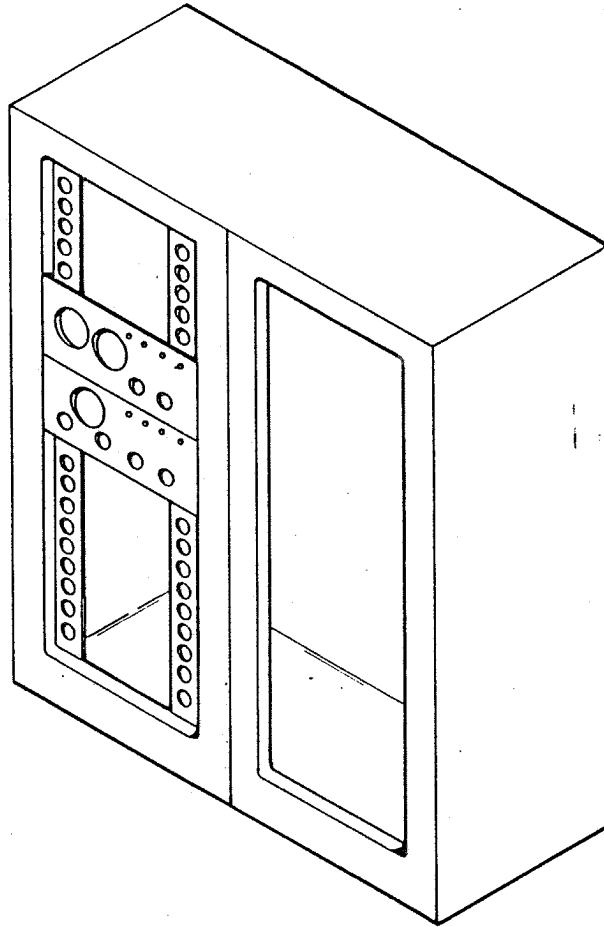


Figure 3.10-2. Instrument Rack (Cabinet would Contain Pages or Other Special Instruments instead of Simple Drawer Type Instruments)

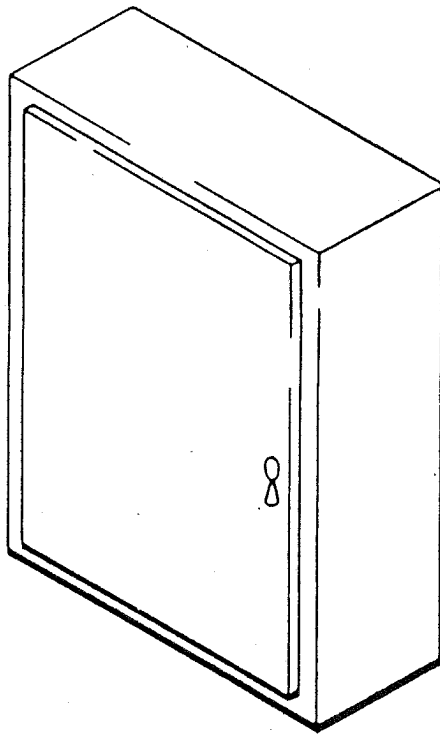


Figure 3.10-3. NEMA Type-12 Enclosure (Instruments Mounted Inside on Internal Membrane Mounted on Standoffs Attached to Back)

CPS-USAR

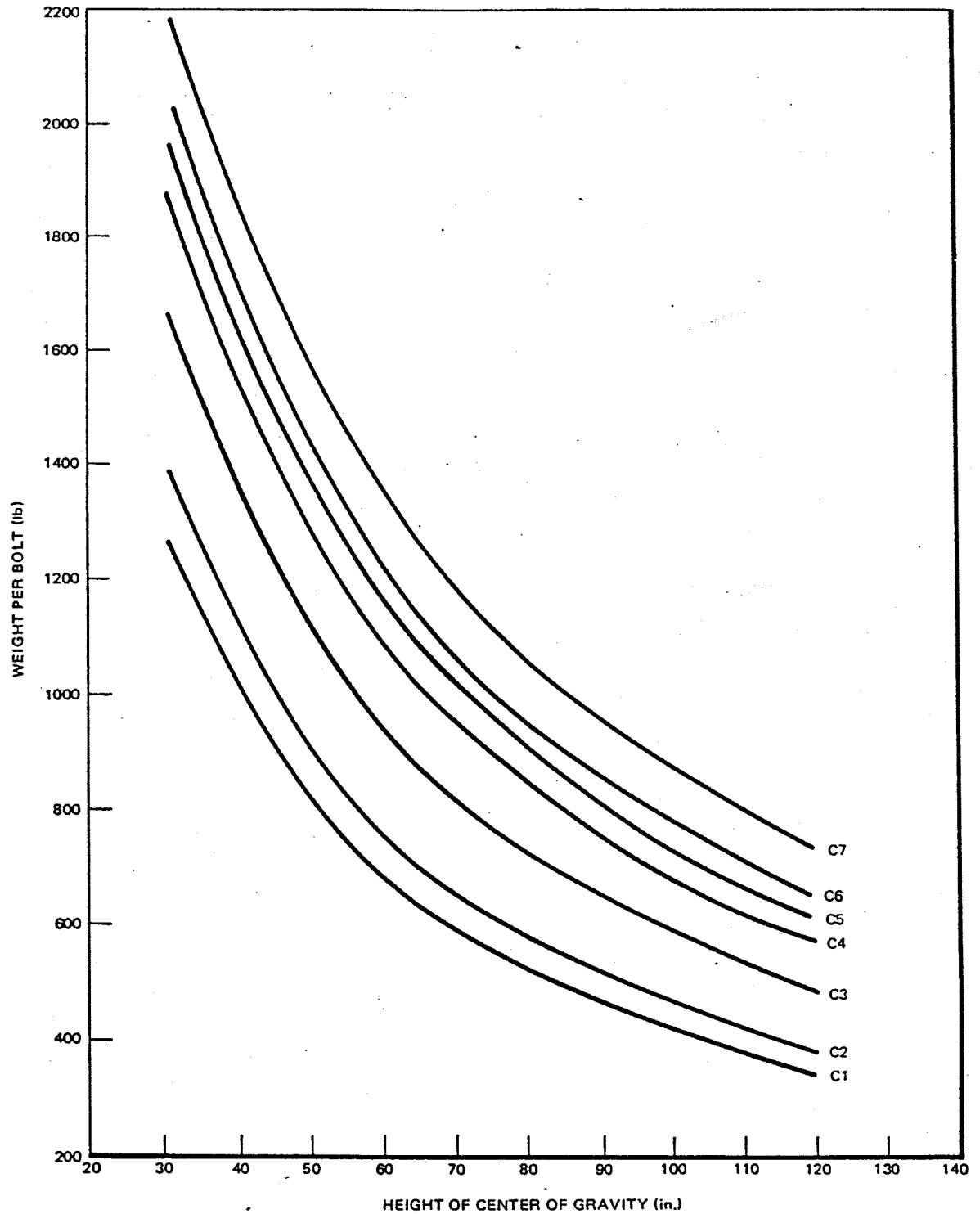


Figure A3.10-1 Maximum Safe Weight per Bolt for Standard Enclosure as a Function of the Height of the Center of Gravity

CPS-USAR

WEIGHT = 2500 lb
PANEL NO. = 730E811

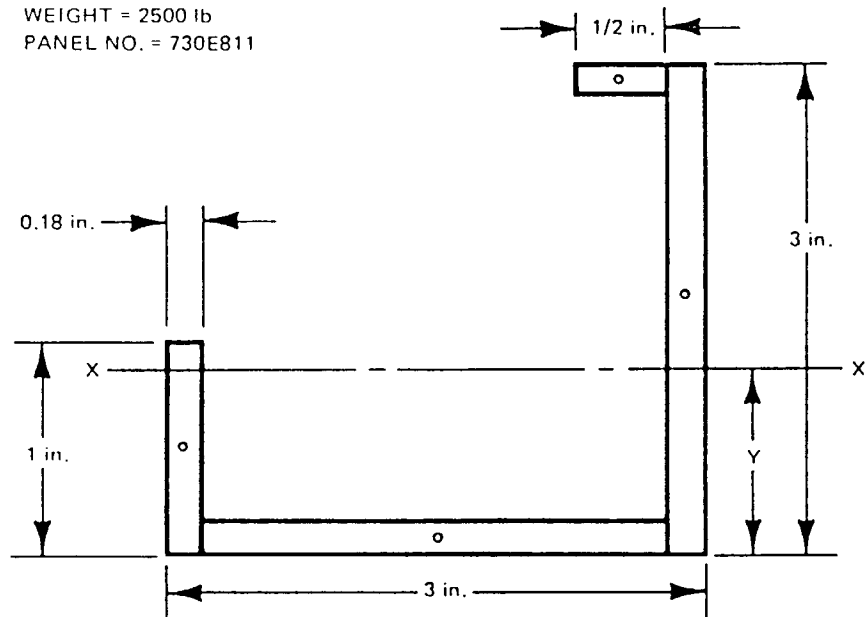


Figure B3.10-1. Corner Post

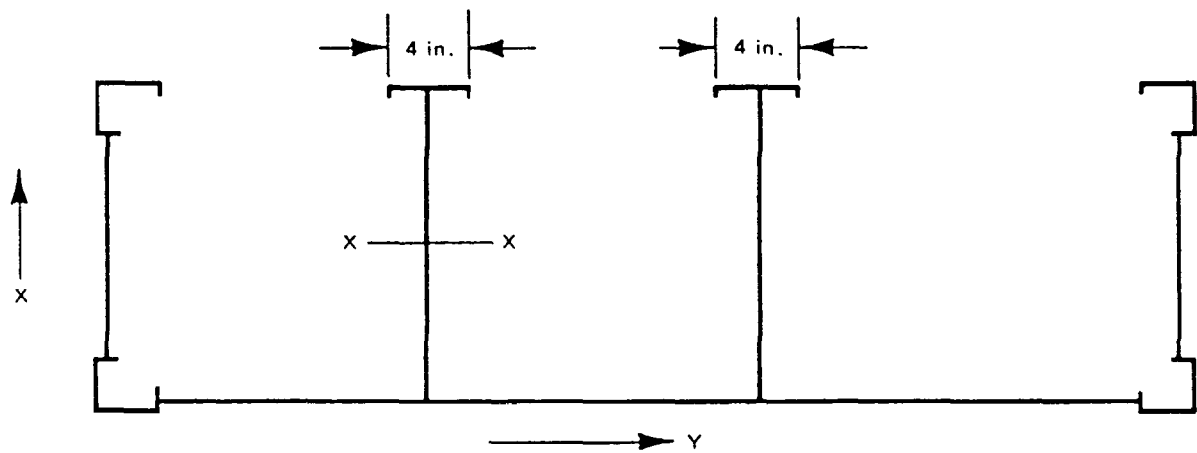


Figure B3.10-2. Plan View of Panel

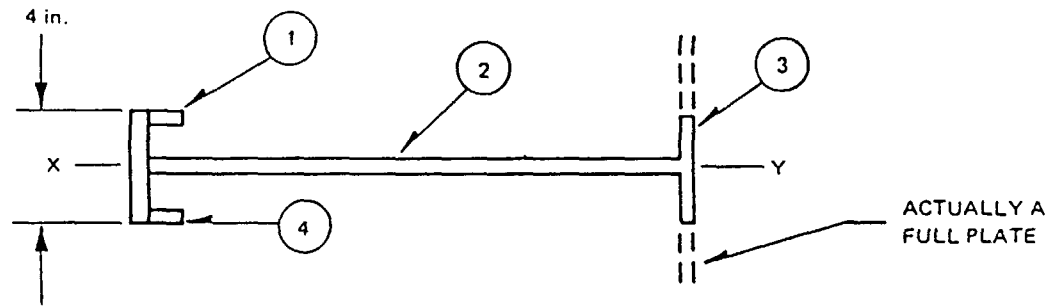


Figure B3.10-3. Barrier With Two End Plates

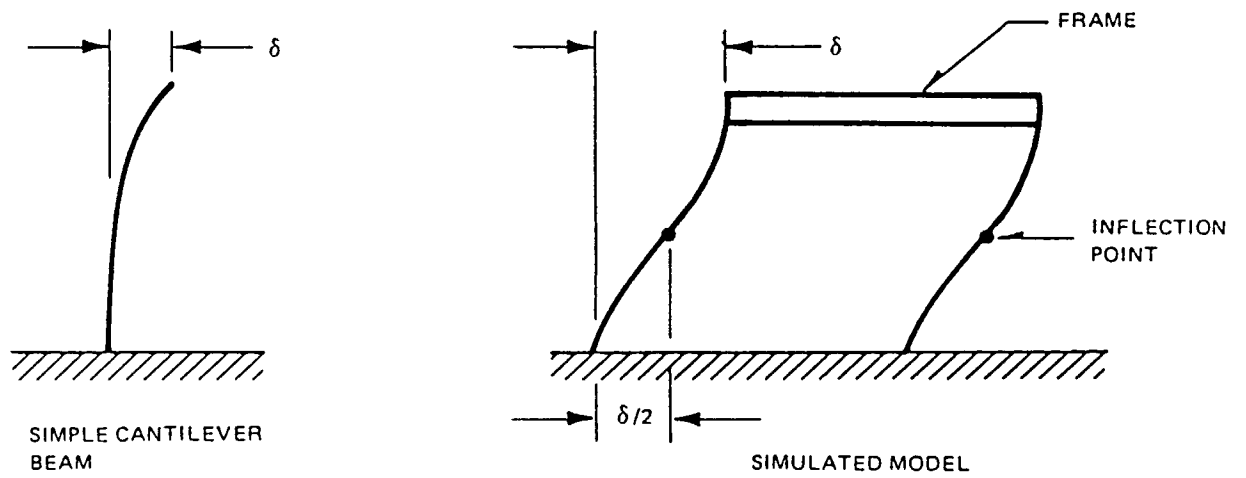
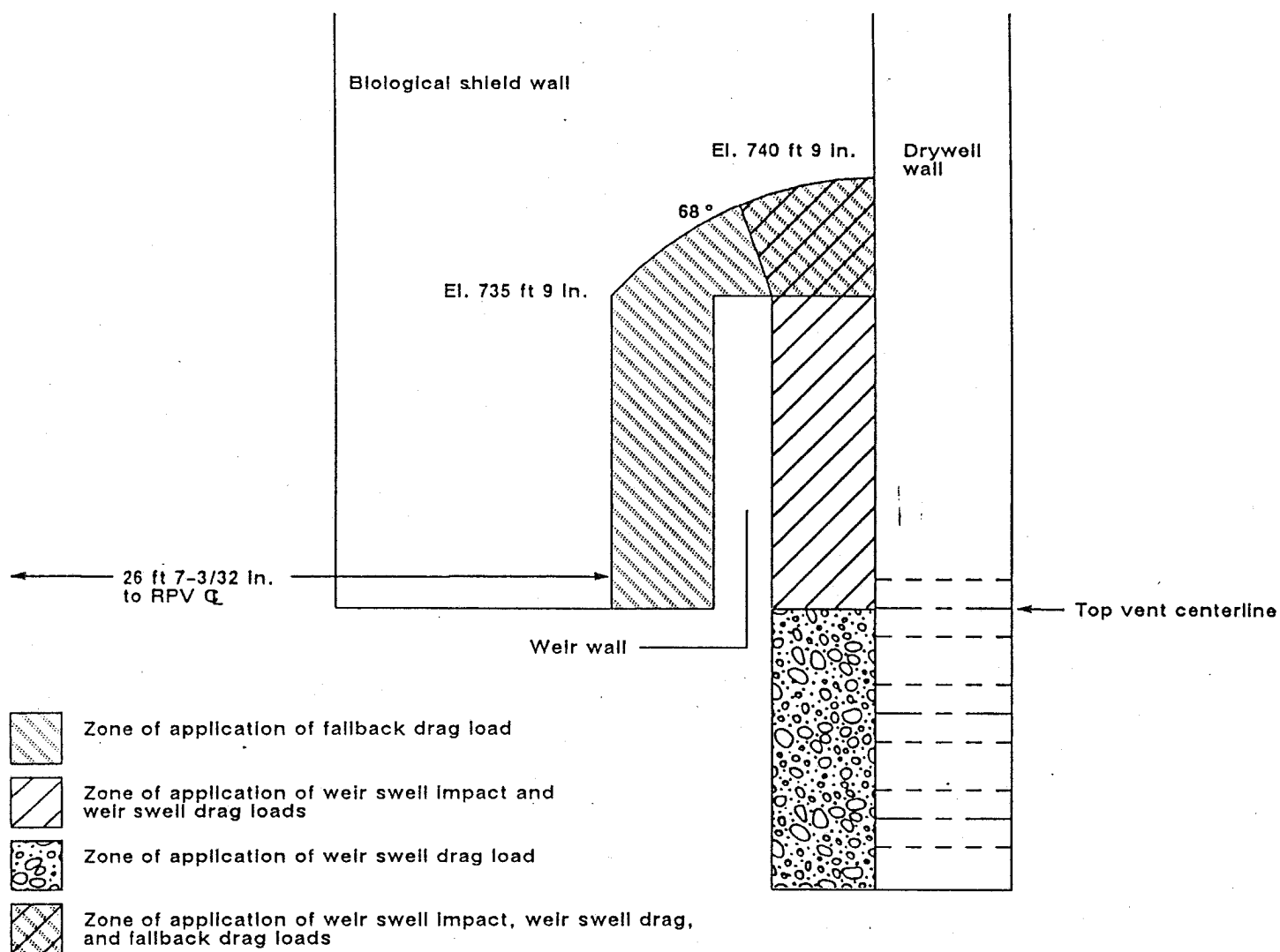


Figure B3.10-4. Panel Deflections

Figures 3.11-1 through 3.11-15
Deleted



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FIGURE 3.11-16

WEIR SWELL IMPACT,
DRAG AND FALLBACK DRAG ZONES