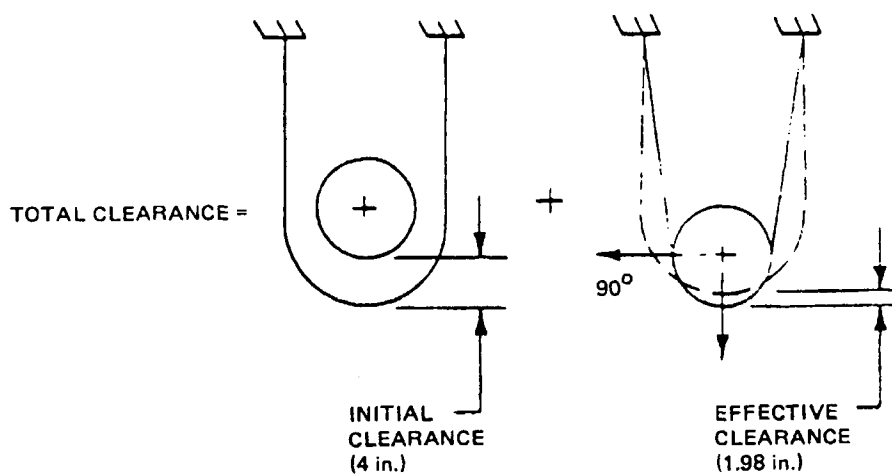
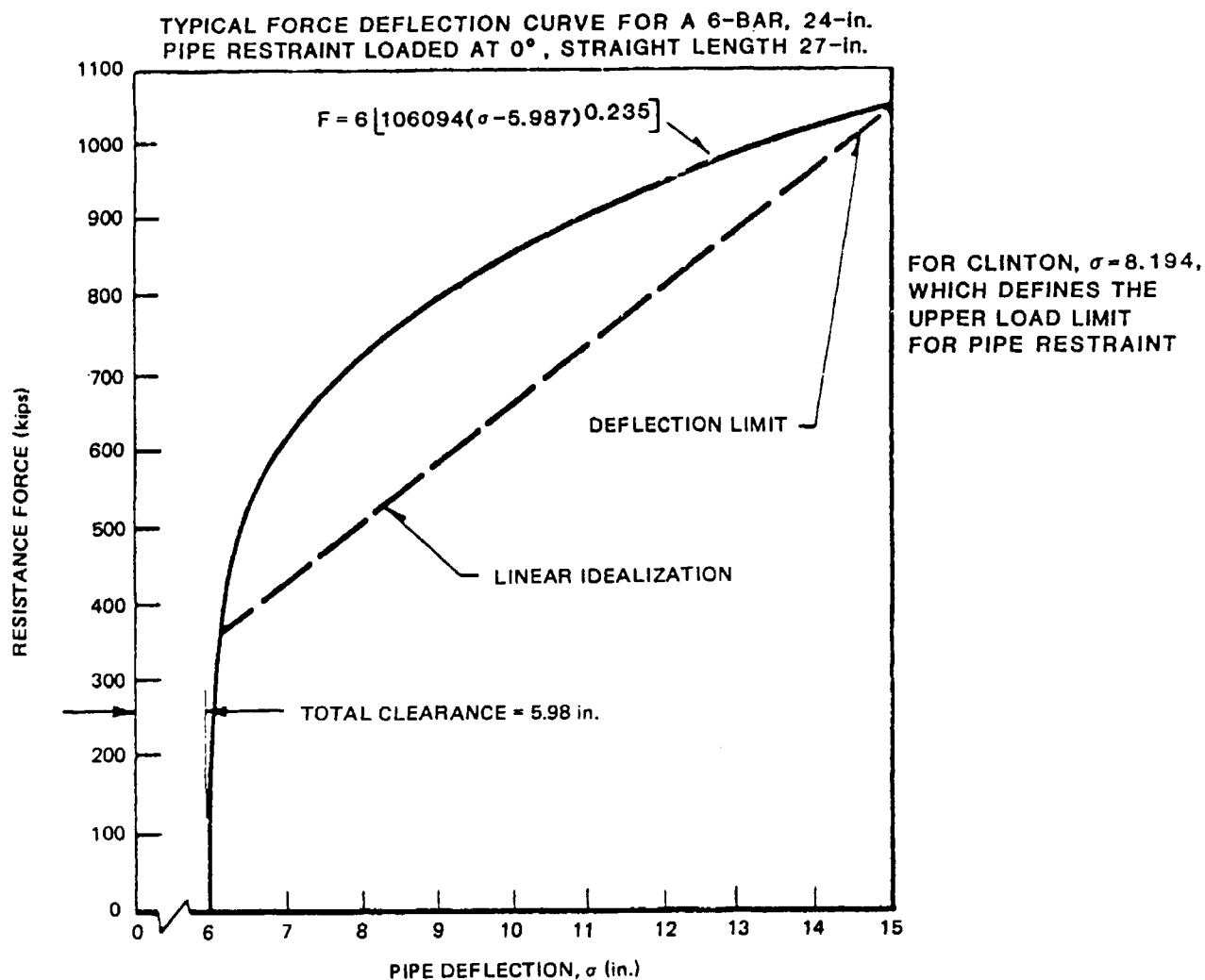


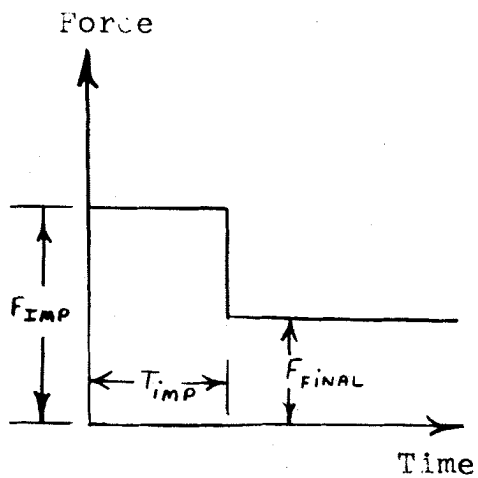


Revision 9
January 2001

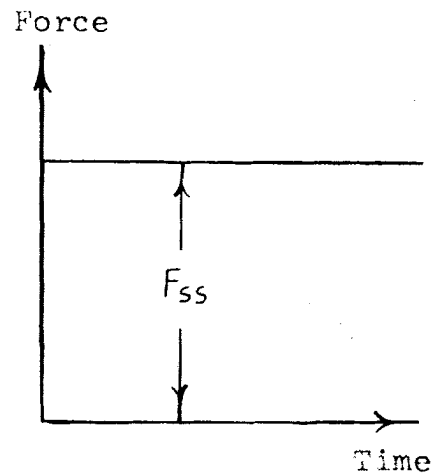


CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.6-2
TYPICAL RESTRAINT
FORCE-DEFLECTION CURVE



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



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

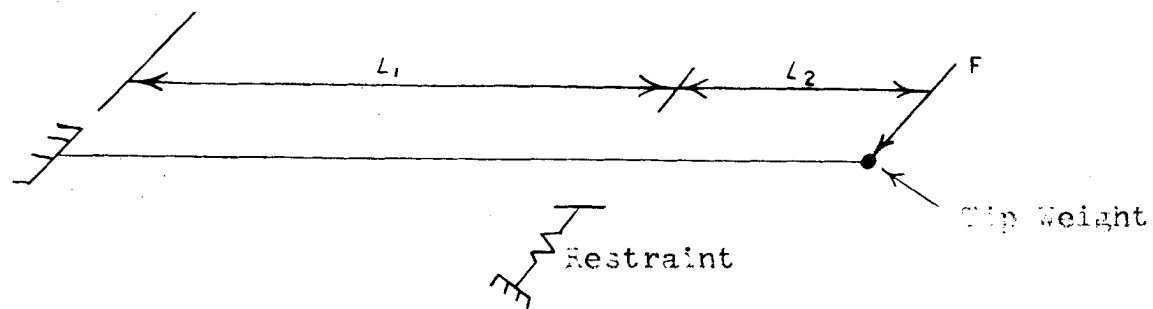
PIPE THRUST
RESULTING FROM A CIRCUMFERENTIAL BREAK

CLINTON POWER STATION
 UPDATED SAFETY ANALYSIS REPORT

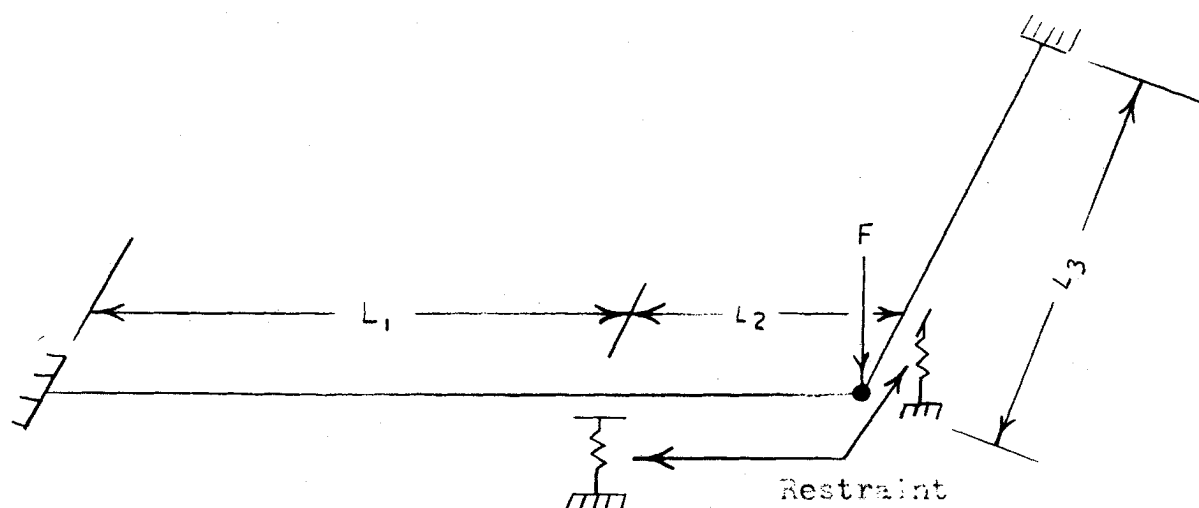
FIGURE 3.6-3

PIPE THRUST

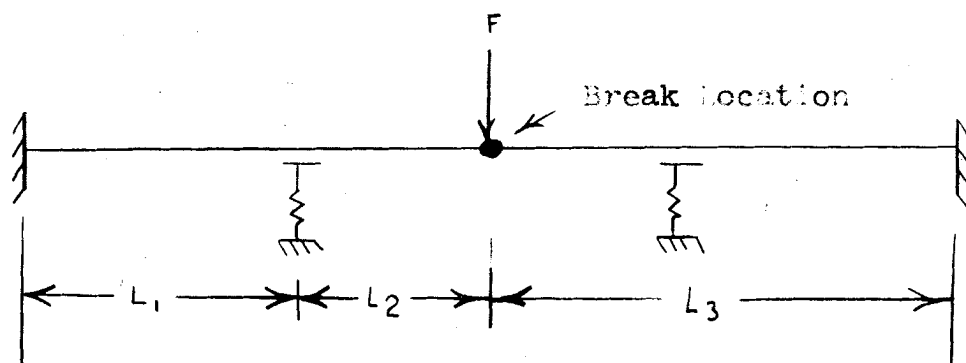
FIGURE 3.6-4
HAS BEEN DELETED



Circumferential Break at Elbow



Longitudinal Break at an Elbow



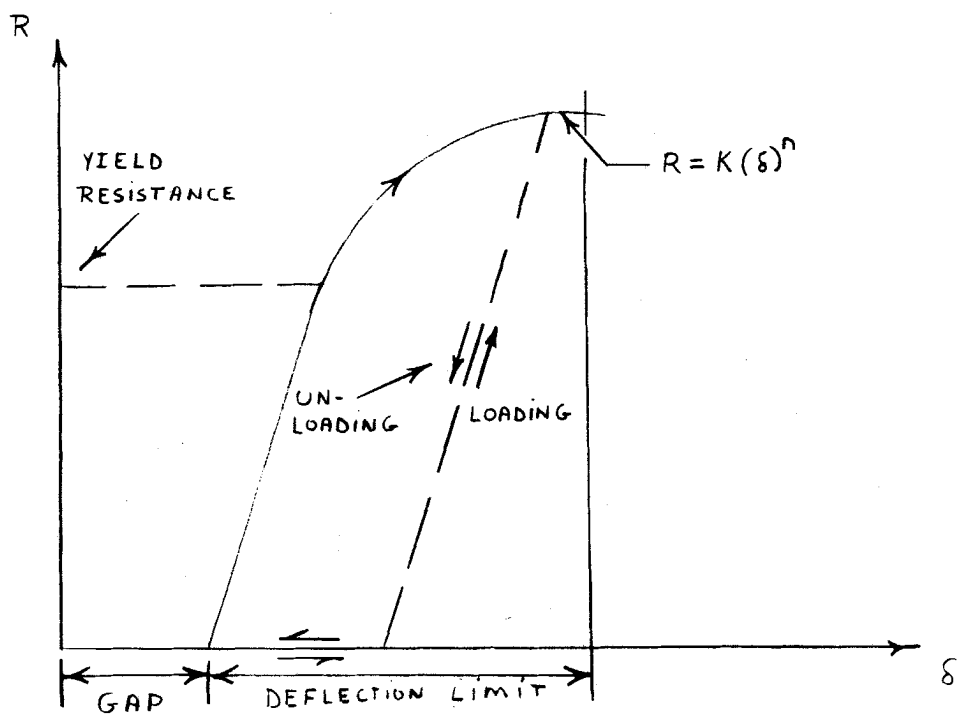
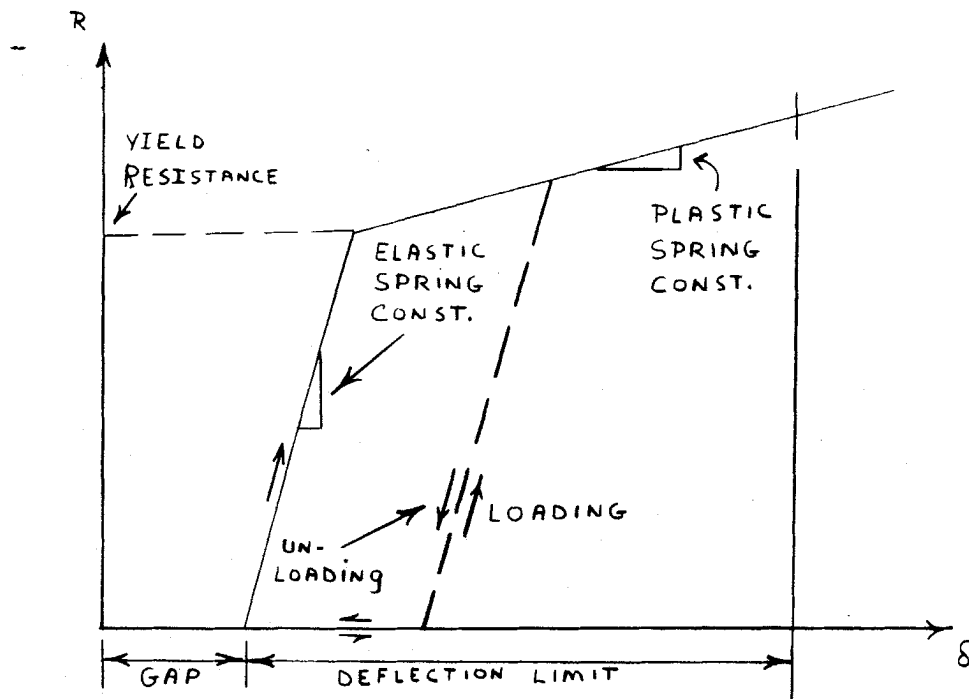
Longitudinal Break at an Interior Point

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.6-5

PIPE WHIP MODELS - FINITE
DIFFERENCE METHOD

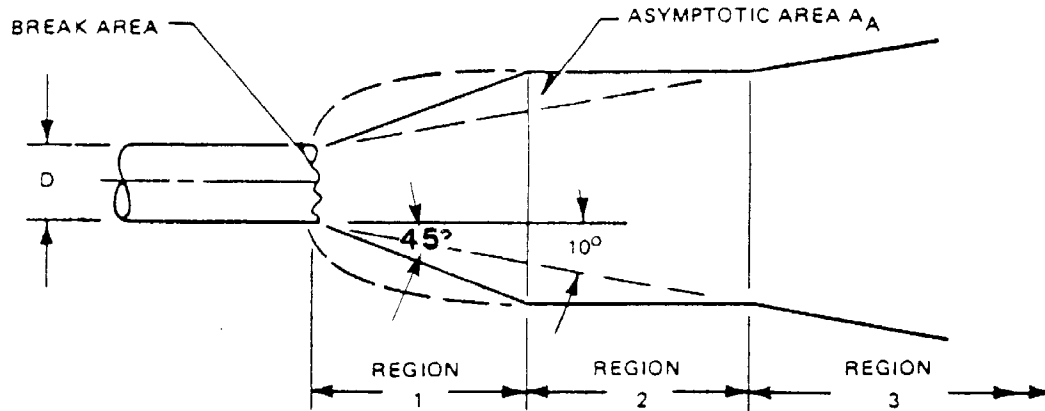
FIGURE 3.6-6
HAS BEEN DELETED



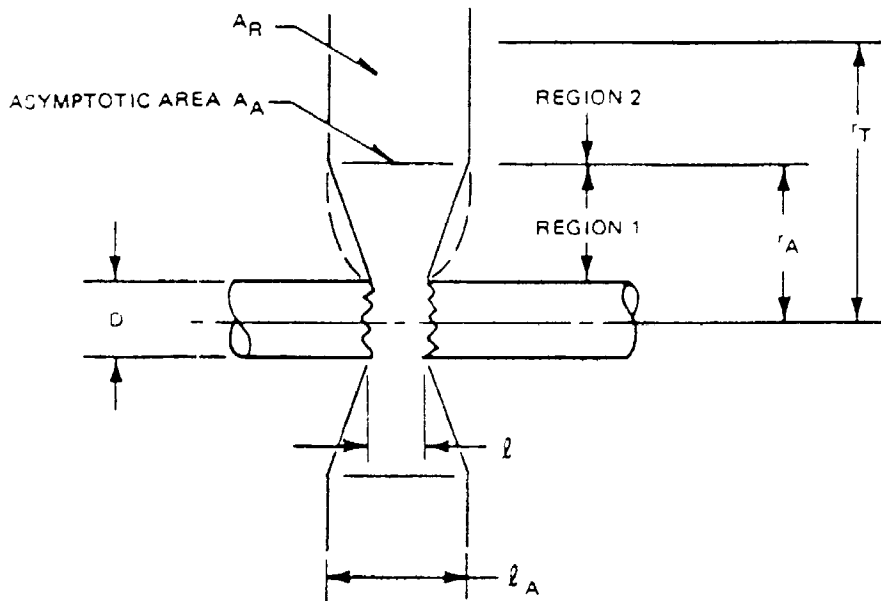
CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.6-7

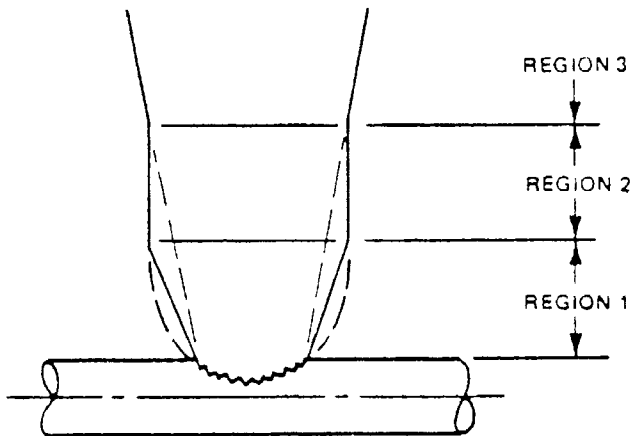
RESTRAINT PROPERTIES



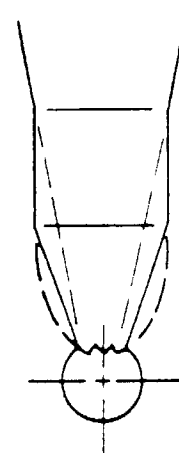
(A) CIRCUMFERENTIAL BREAK – FULL SEPARATION



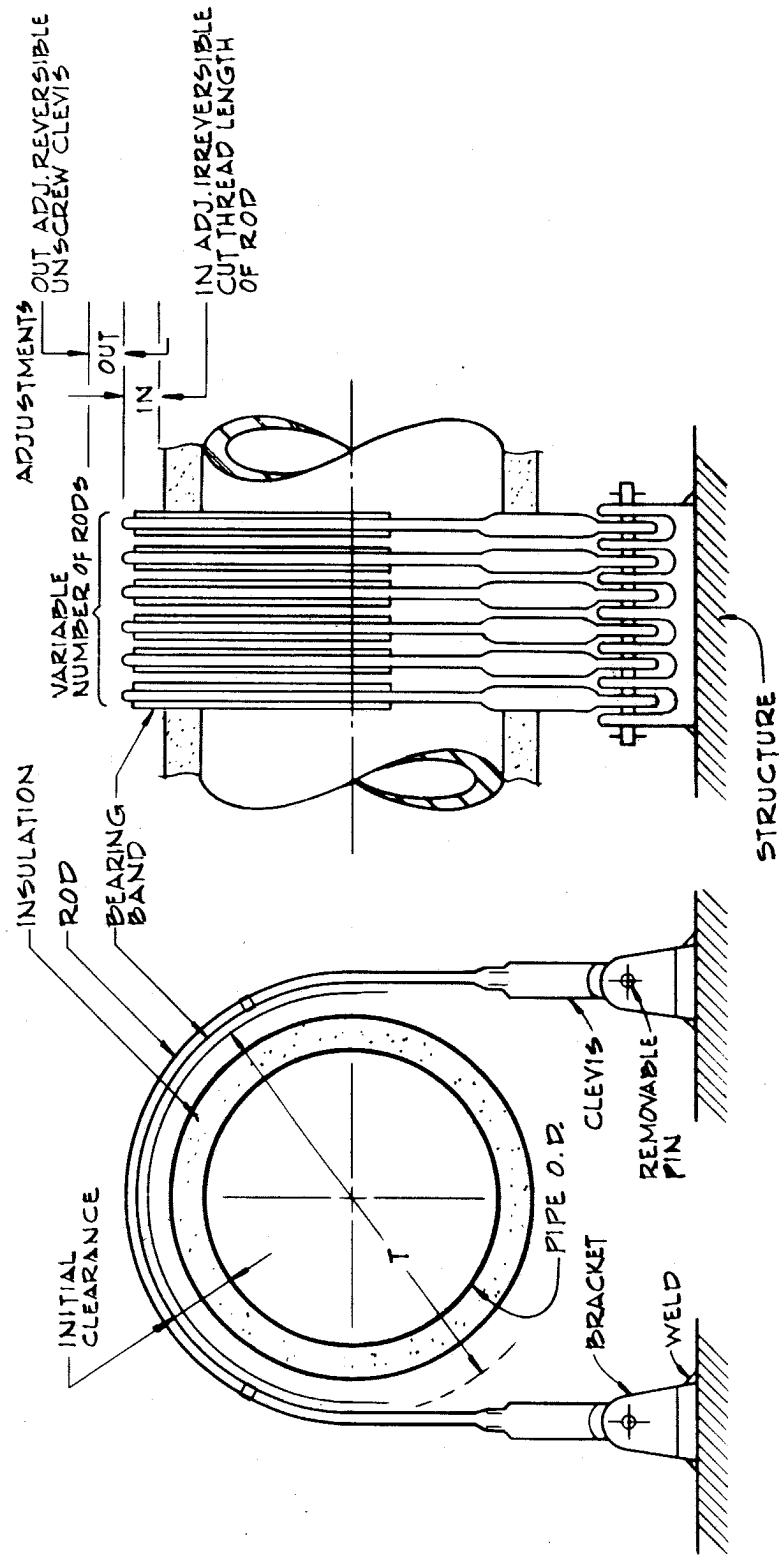
(B) CIRCUMFERENTIAL BREAK – PARTIAL SEPARATION



(C) LONGITUDINAL BREAK



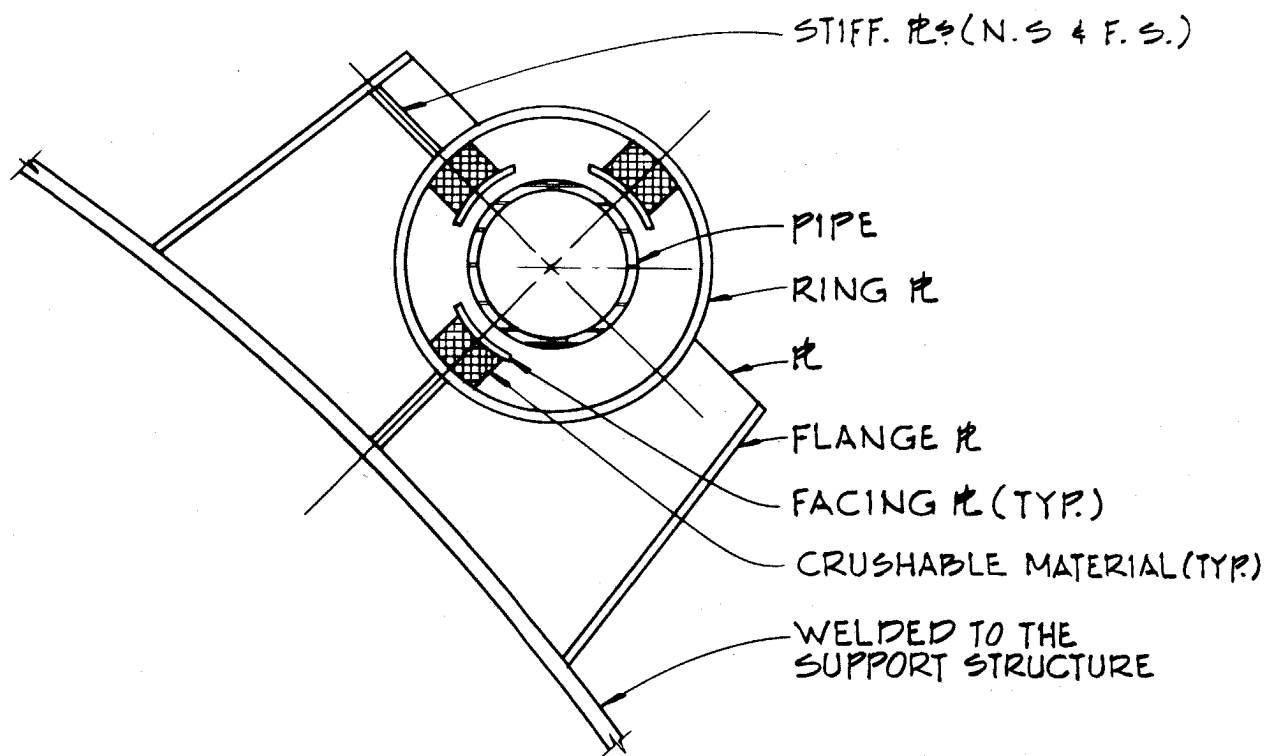
FIGURES 3.6-9 AND 3.6-10
HAVE BEEN DELETED



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.6-11

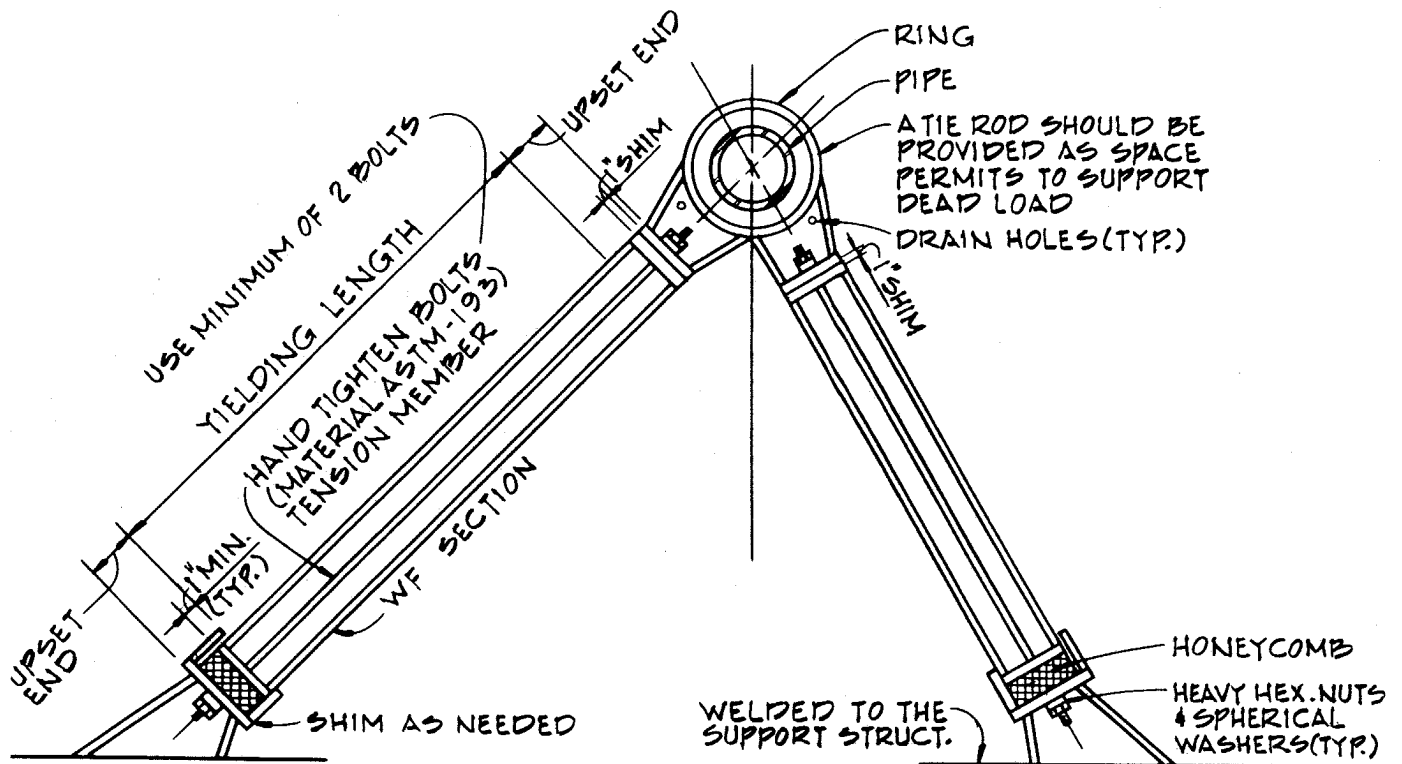
TYPICAL TENSION RESTRAINT



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.6-12

TYPICAL CRUSHABLE MATERIAL RESTRAINT

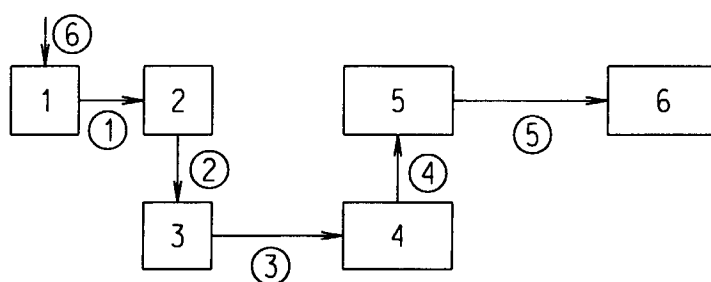


CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

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

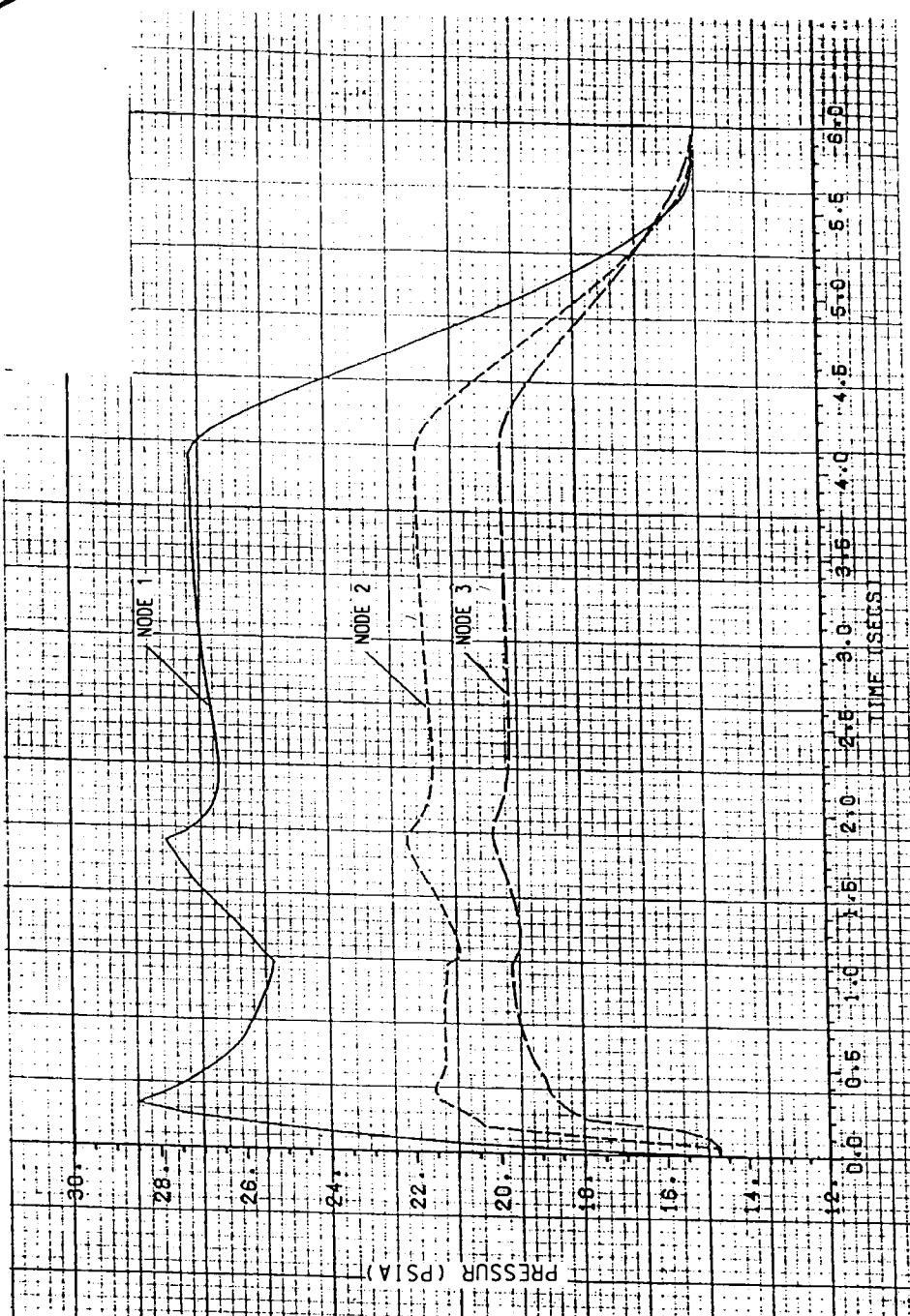
○ ≡ FLOW PATH

NOTE:

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

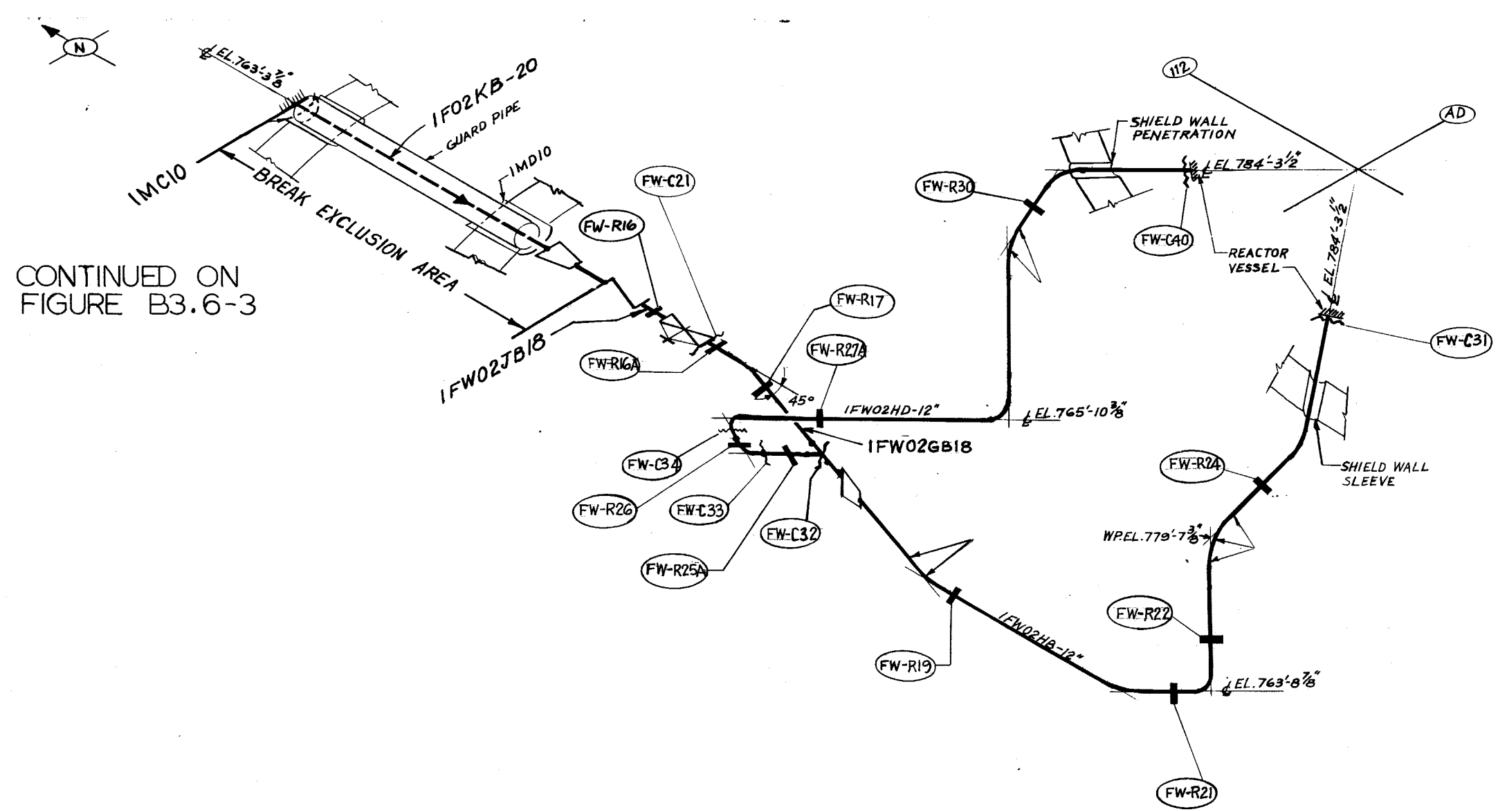
CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

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

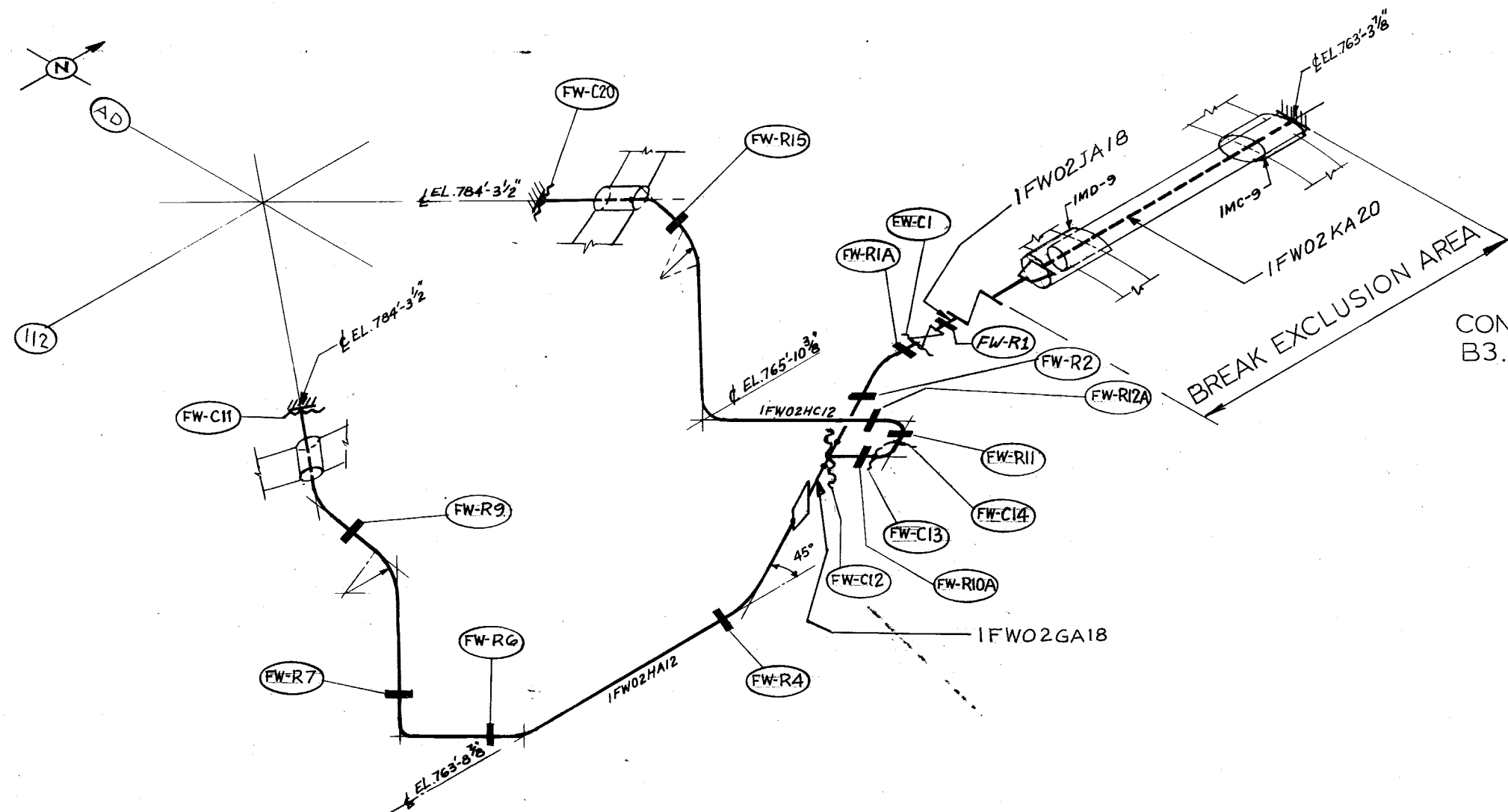
FIGURE 3.6-16
PRESSURE VS. TIME -
LINE BREAK IN STEAM TUNNEL

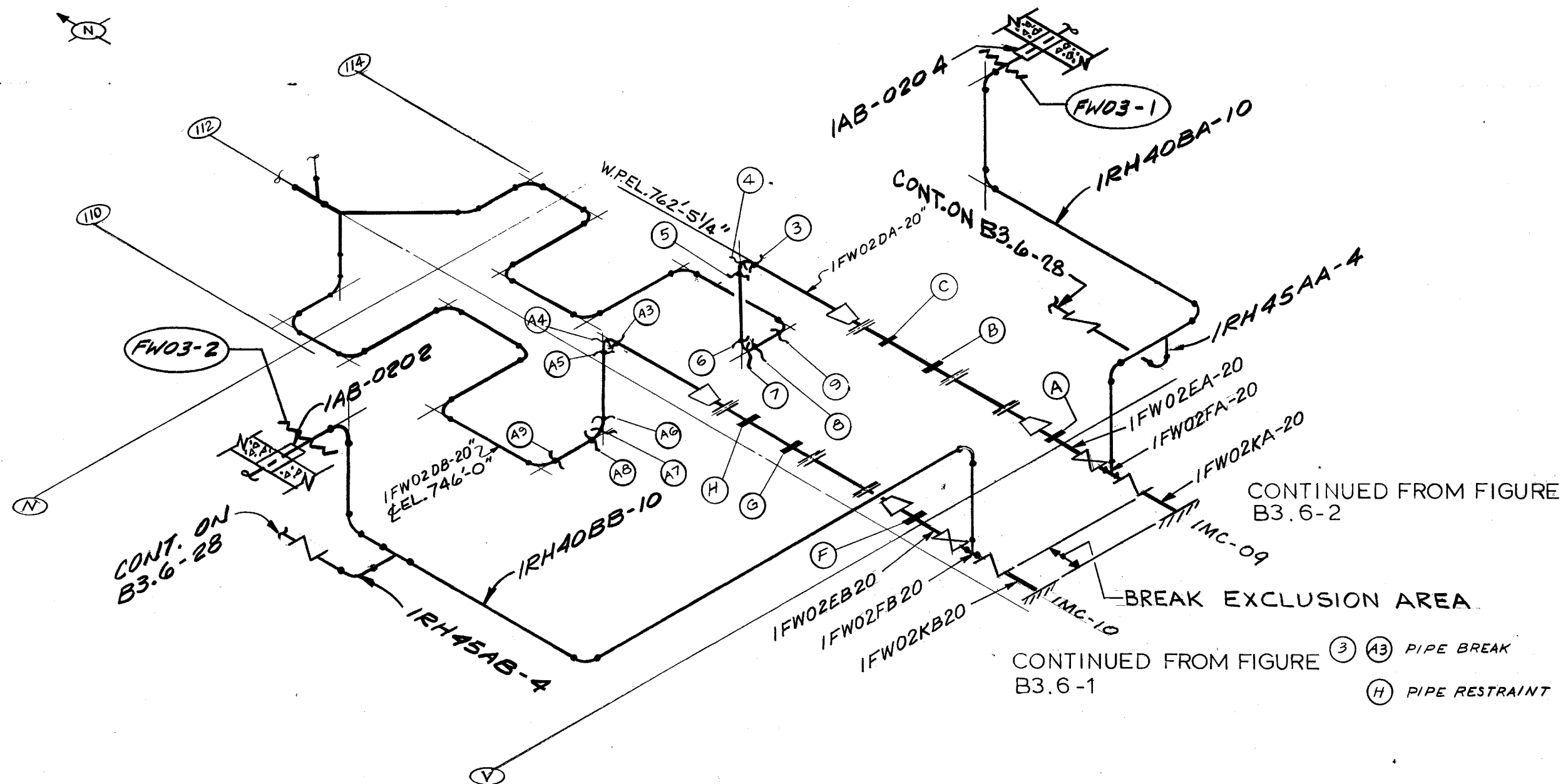


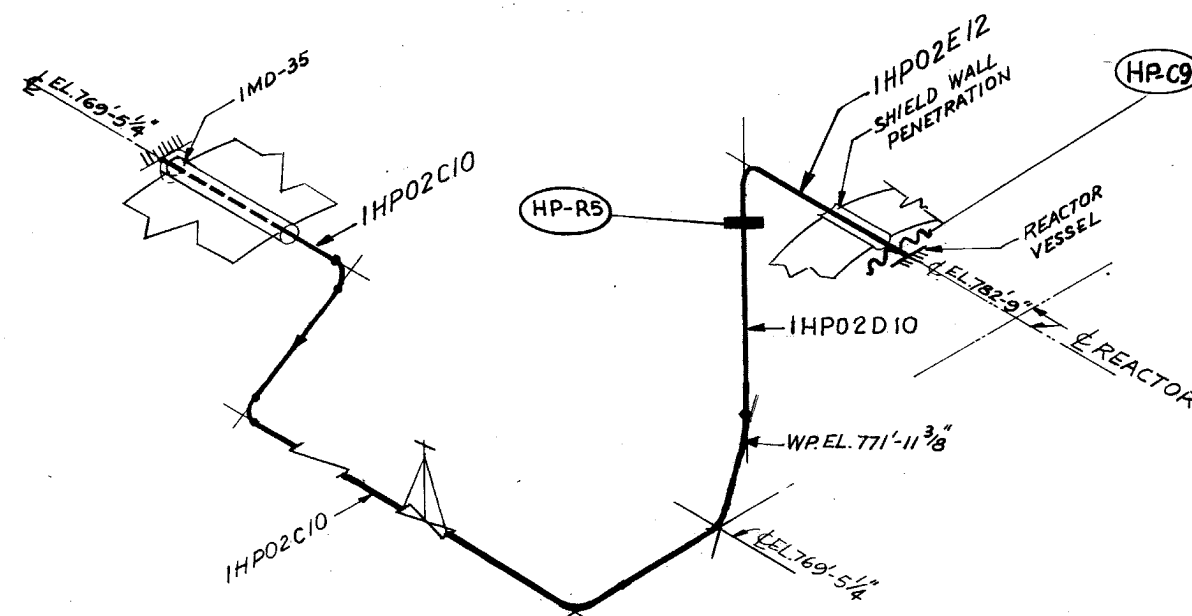
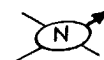
CLINTON POWER STATION
 UPDATED SAFETY ANALYSIS REPORT

FIGURES B3.6-1

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







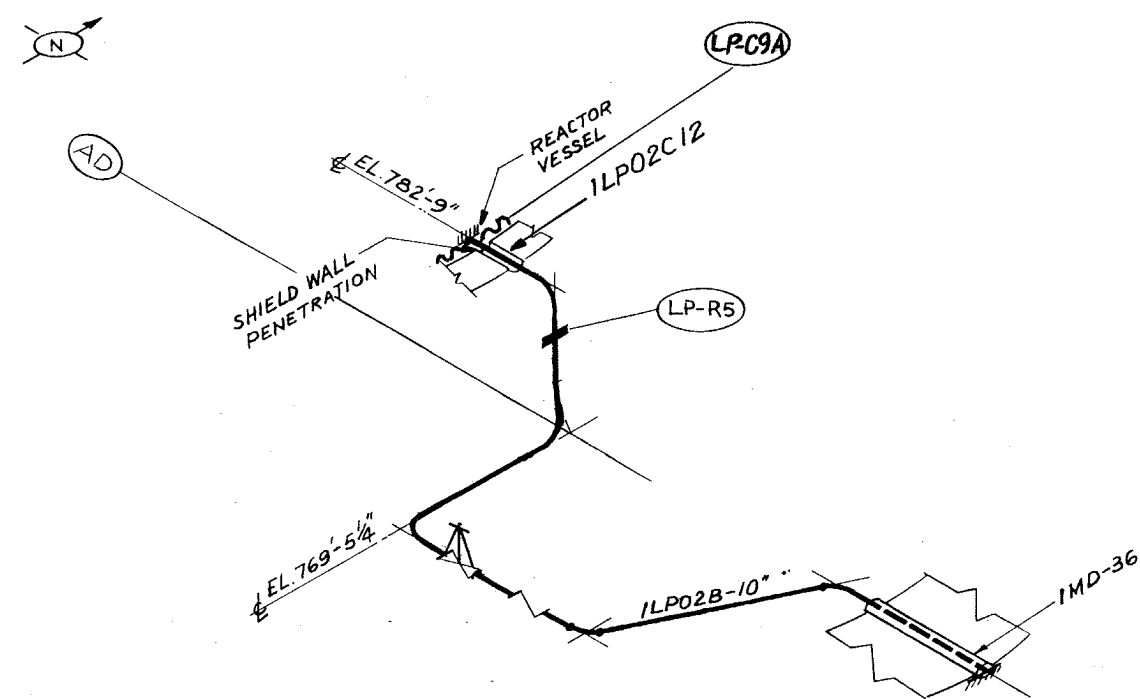
HP-R PIPE RESTRAINT

HP-C PIPE BREAK

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE B3.6-4

POSTULATED BREAKS AND RESTRAINT
LOCATION HP-01 INSIDE CONTAINMENT

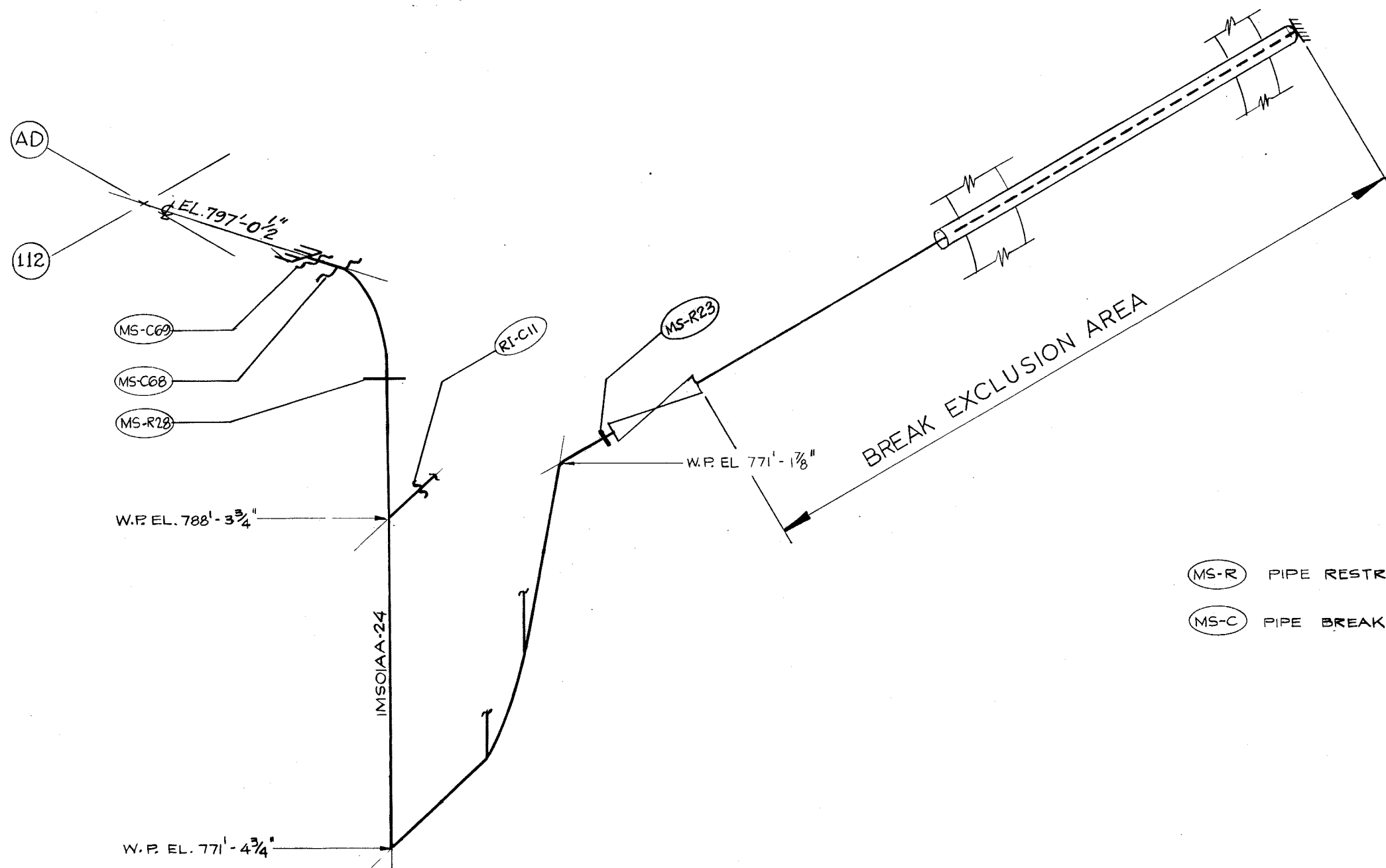
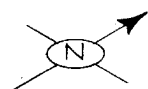


(LP-R) PIPE RESTRAINT
 (LP-C) PIPE BREAK

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



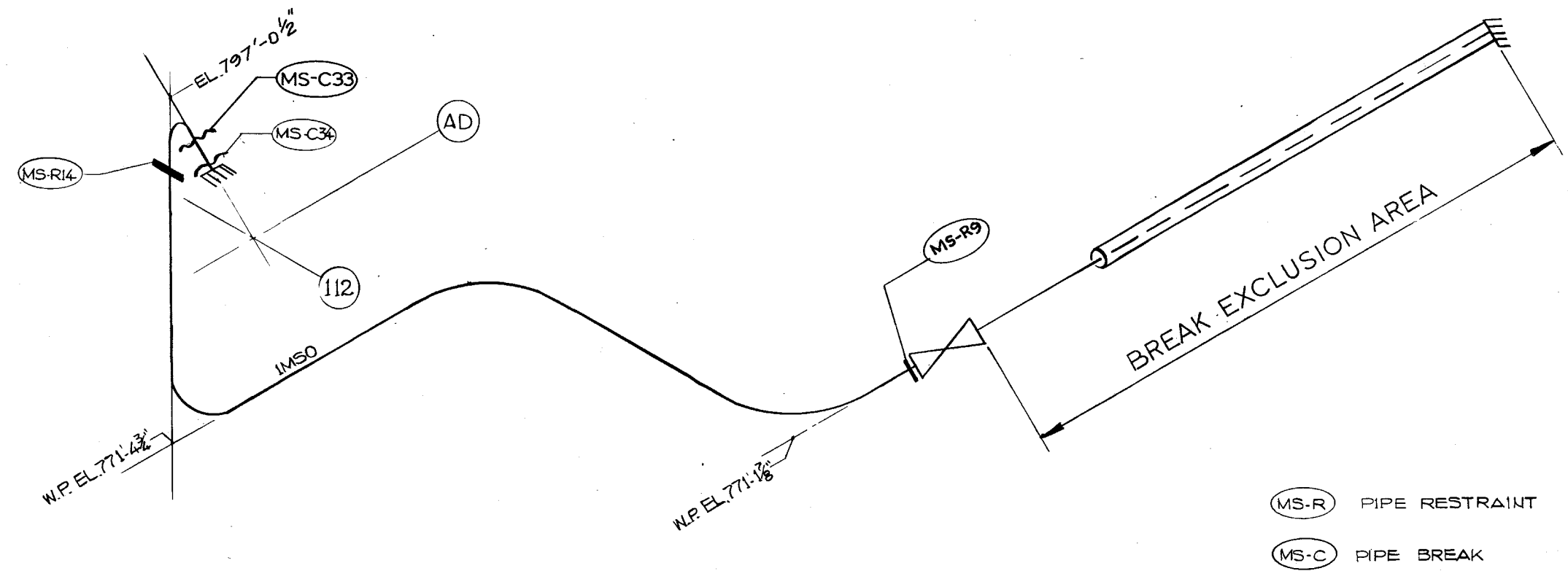
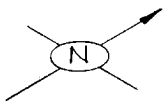
- (MS-R) PIPE RESTRAINT
- (MS-C) PIPE BREAK

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UPDATED SAFETY ANALYSIS REPORT**

FIGURE B3.6-6

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

CONTINUED ON FIGURE
B3.6-12

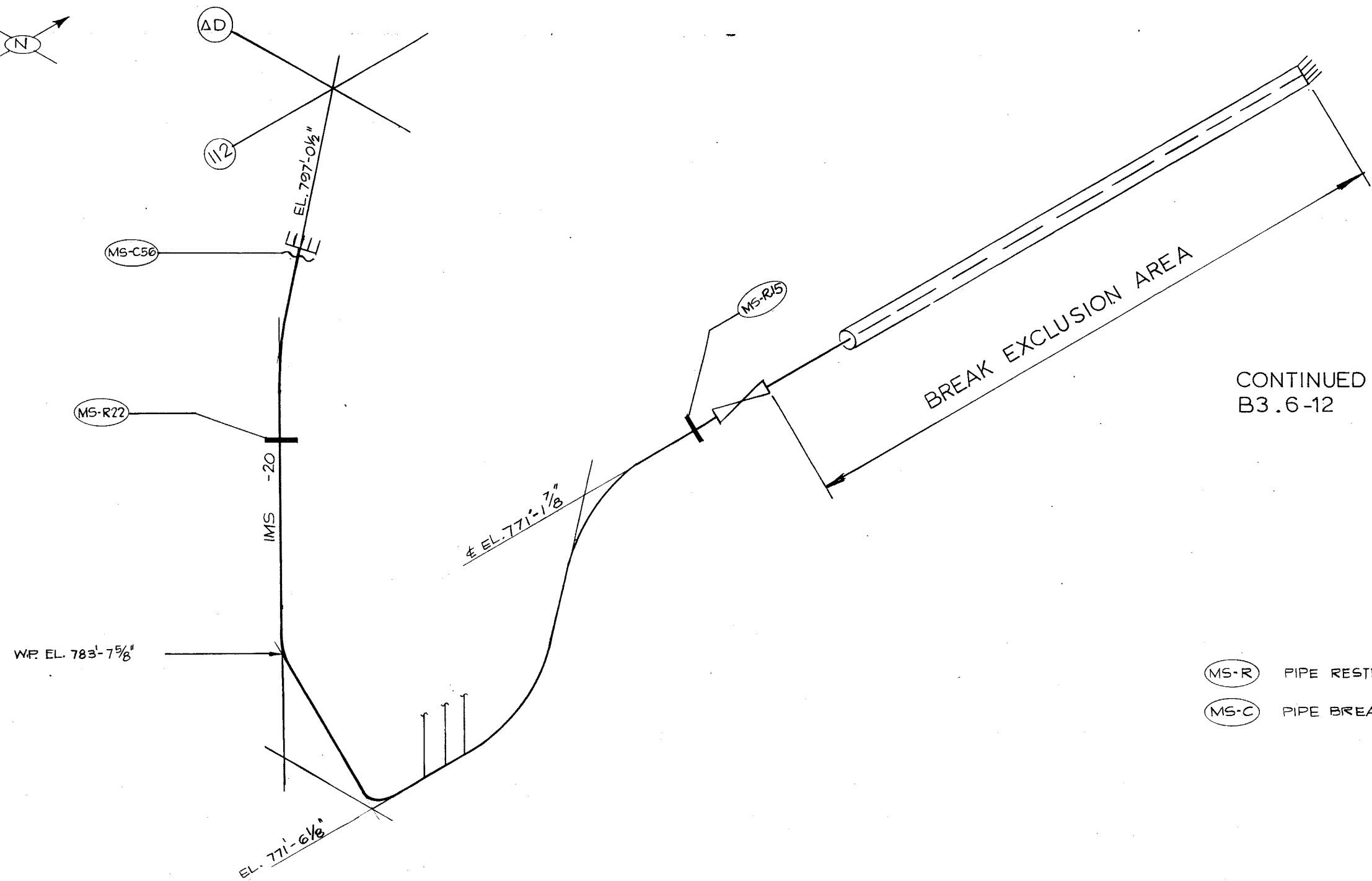
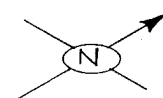


- (MS-R) PIPE RESTRAINT
- (MS-C) PIPE BREAK

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE B3.6-7

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

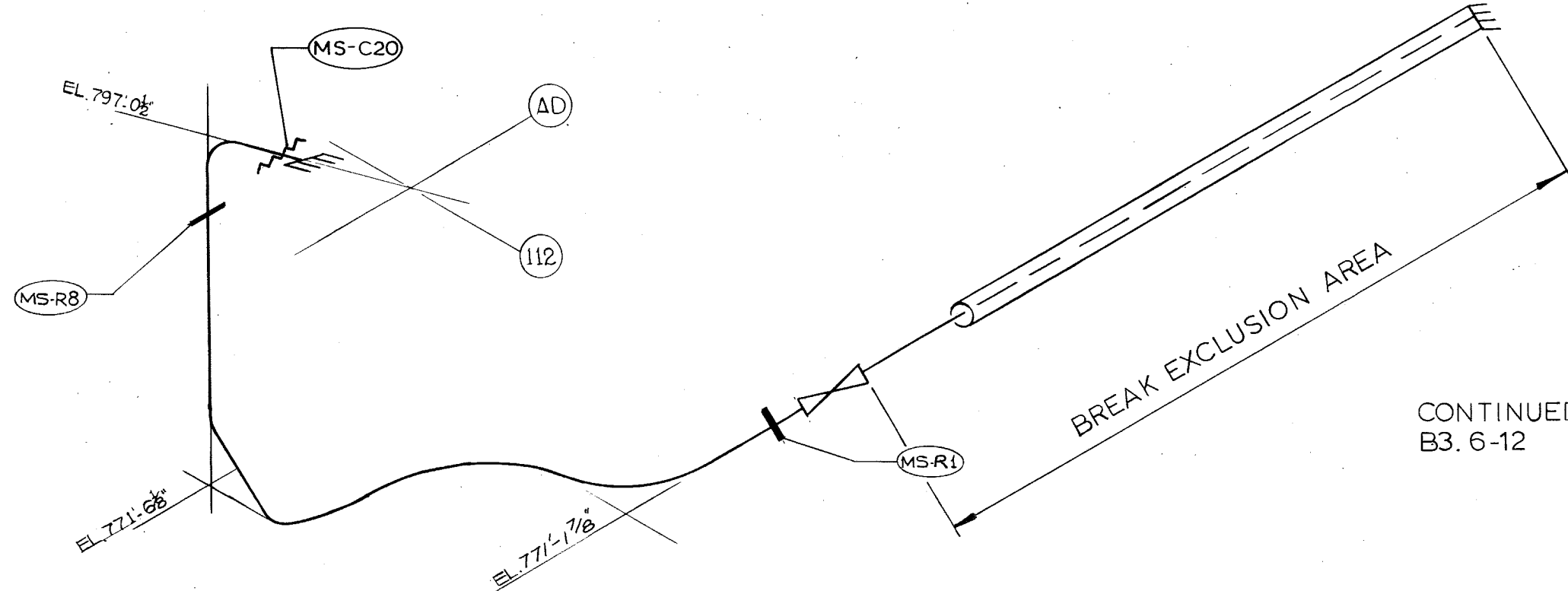
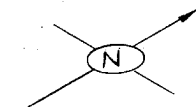


CONTINUED ON FIGURE
B3.6-12

- (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

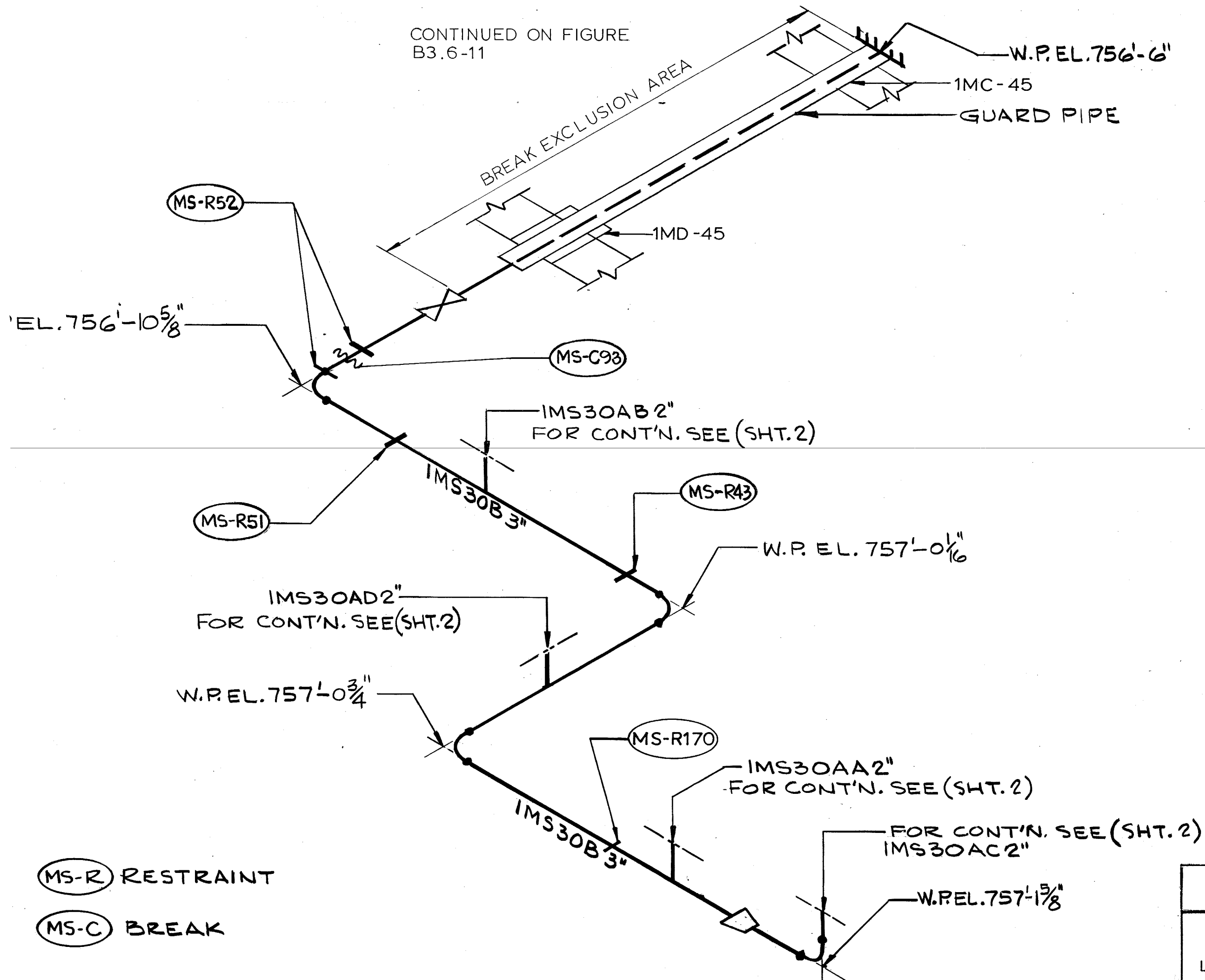
- (MS-R) PIPE RESTRAINT
- (MS-C) PIPE BREAK

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE B3.6-9

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

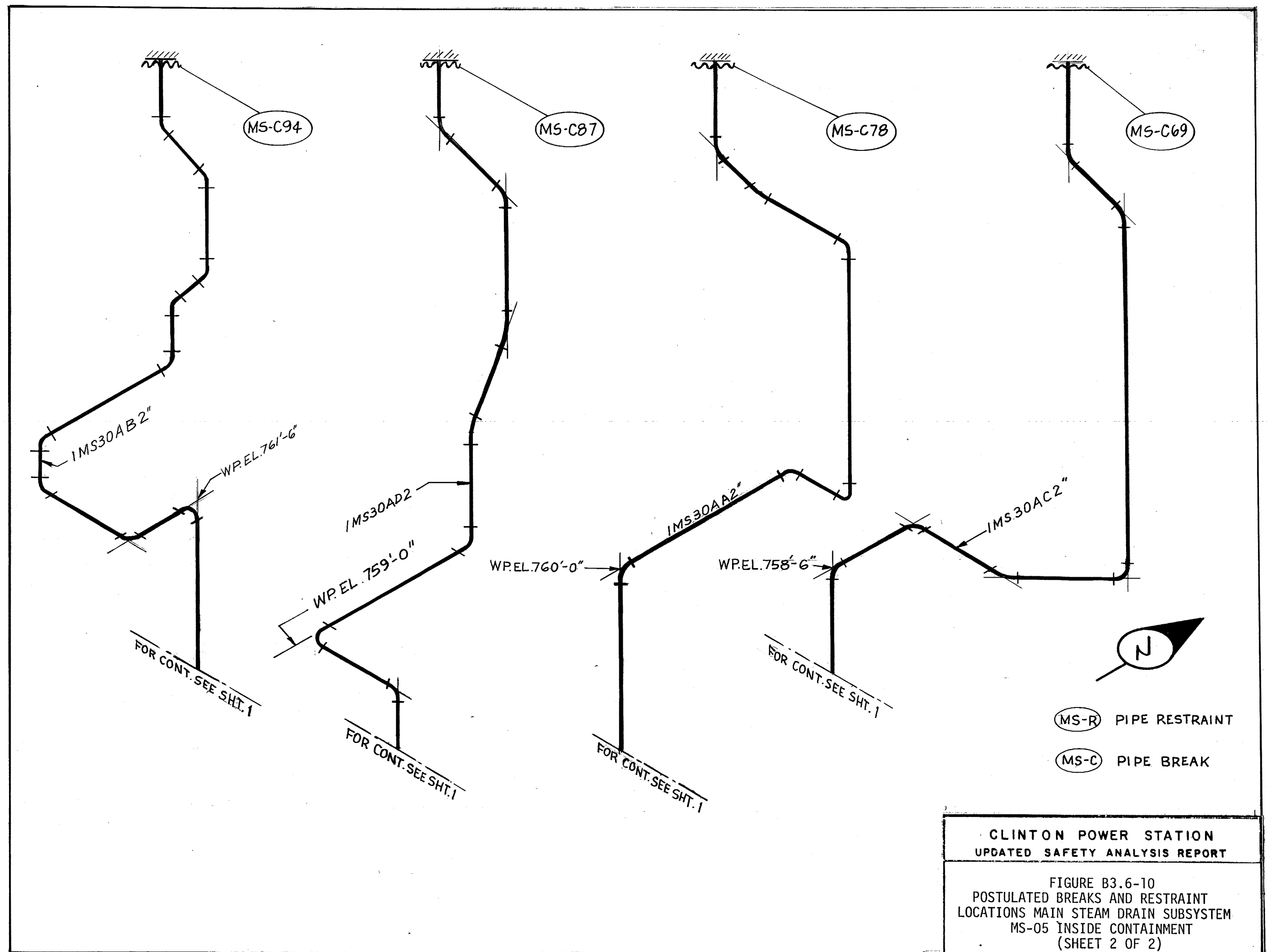
CONTINUED ON FIGURE
B3.6-11

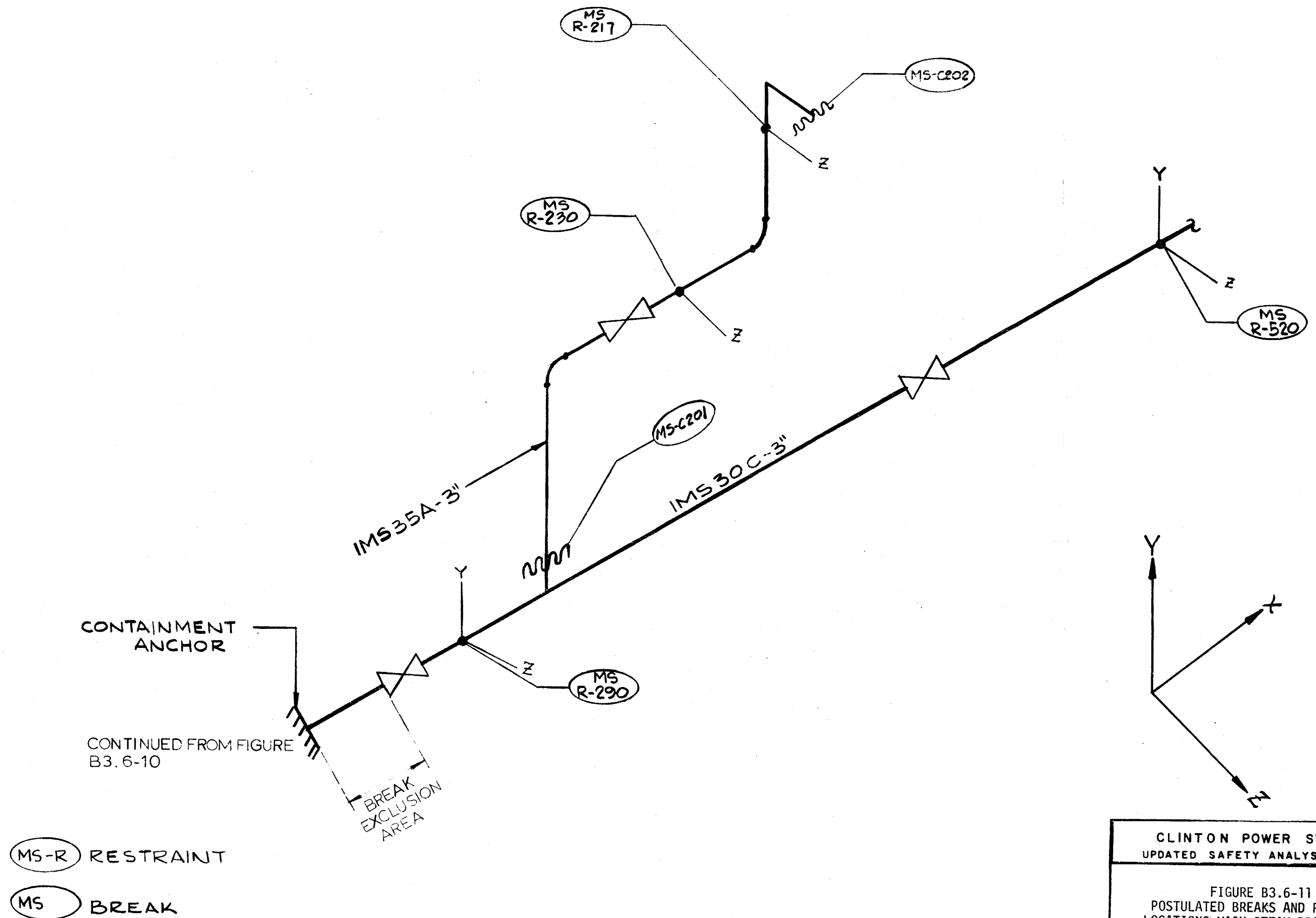


(MS-R) RESTRAINT

(MS-C) BREAK

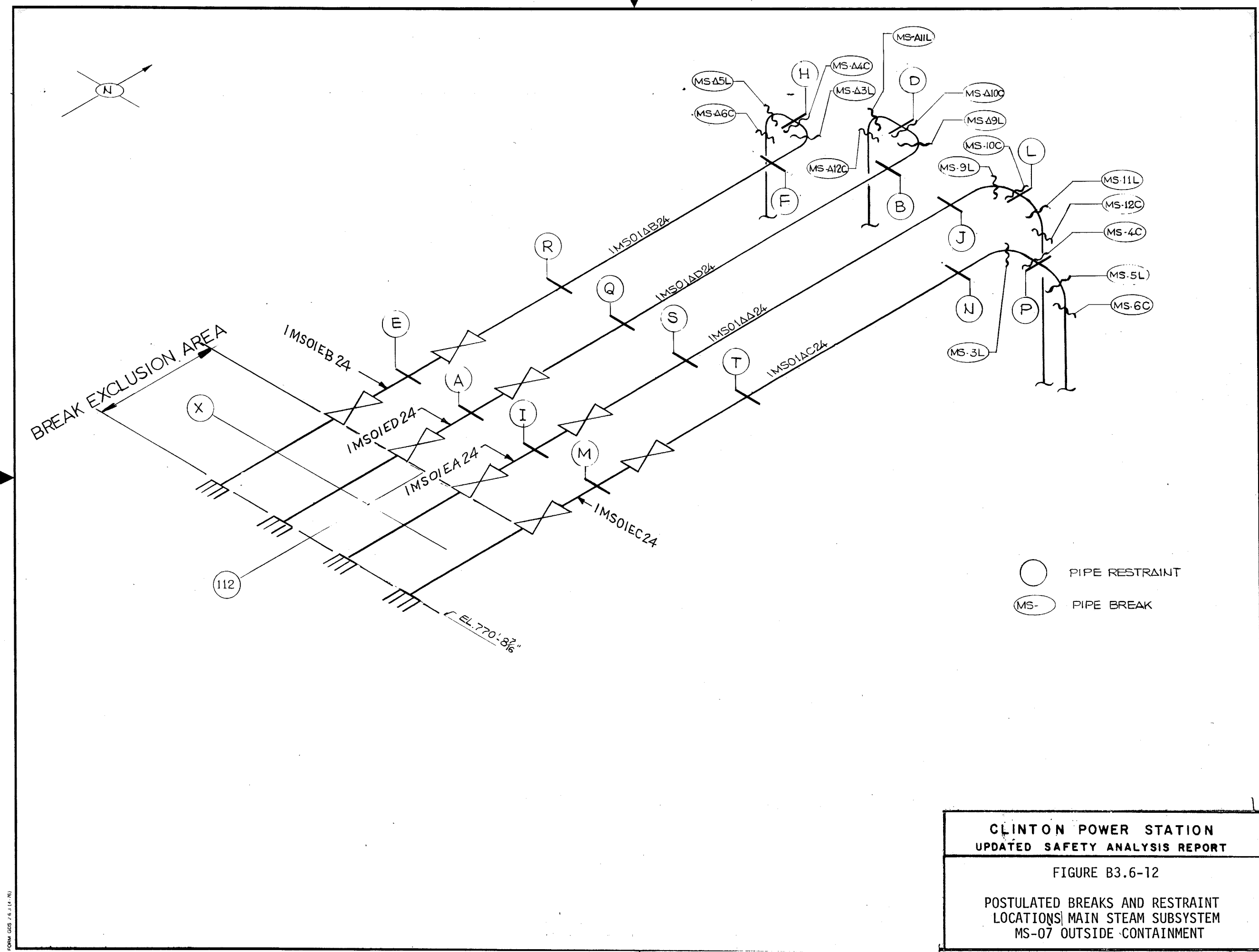
<p>CLINTON POWER STATION UPDATED SAFETY ANALYSIS REPORT</p>
<p>FIGURE B3.6-10 POSTULATED BREAKS AND RESTRAINT LOCATIONS MAIN STEAM DRAIN SUBSYSTEM MS-05 INSIDE CONTAINMENT (SHEET 1 OF 2)</p>

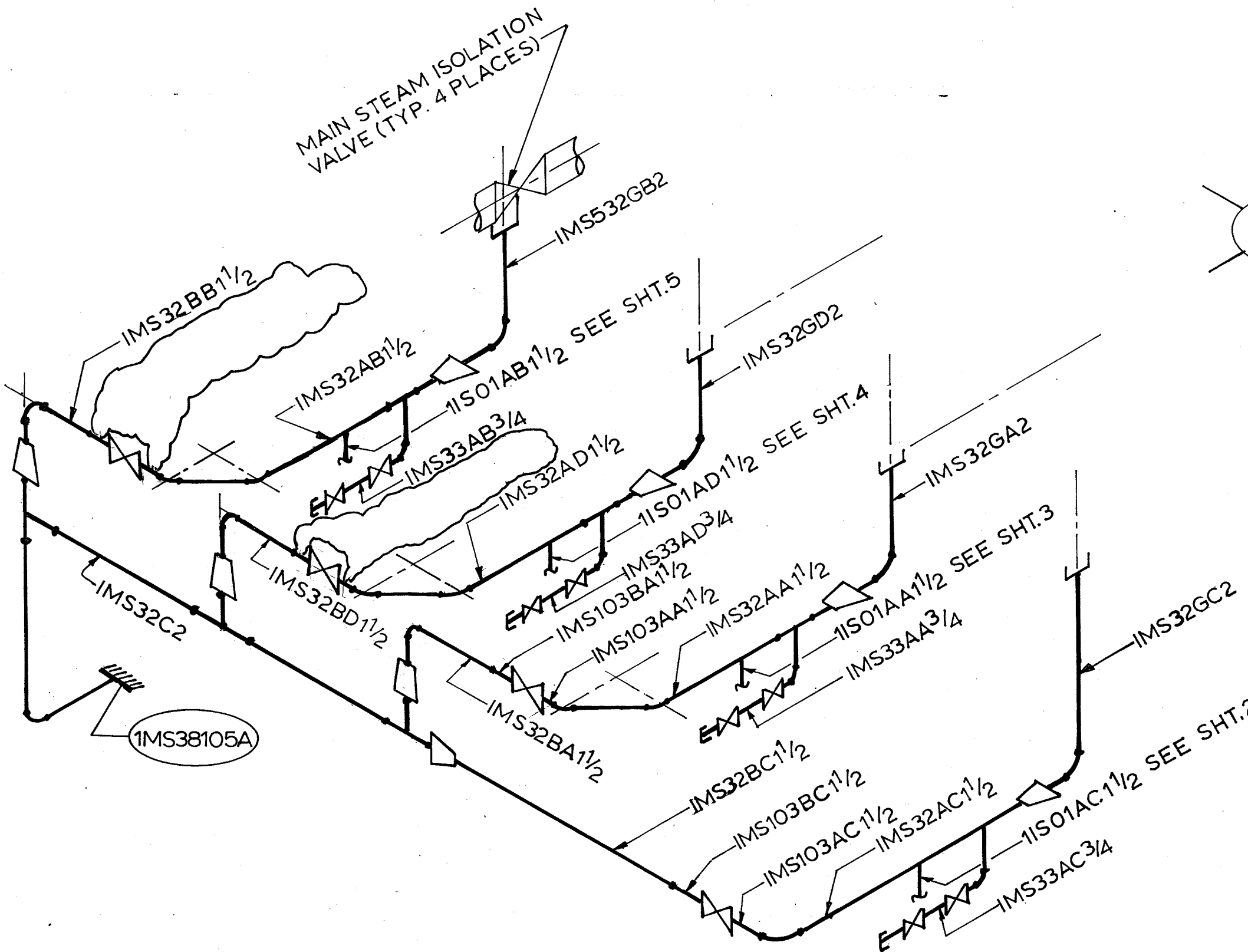




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UPDATED SAFETY ANALYSIS REPORT

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



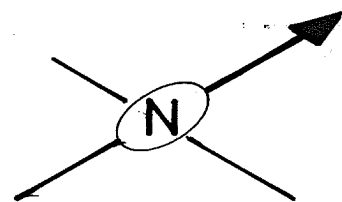


PIPE WHIP ANCHOR

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)



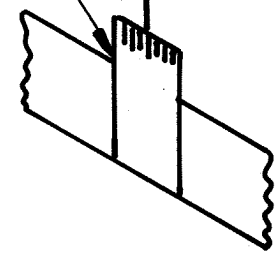
FOR CONT.
SEE SHT. 1

IMS32AC 1 1/2"

IIS01AC 1 1/2"

IIS06AC 1 1/2"

IAB0719



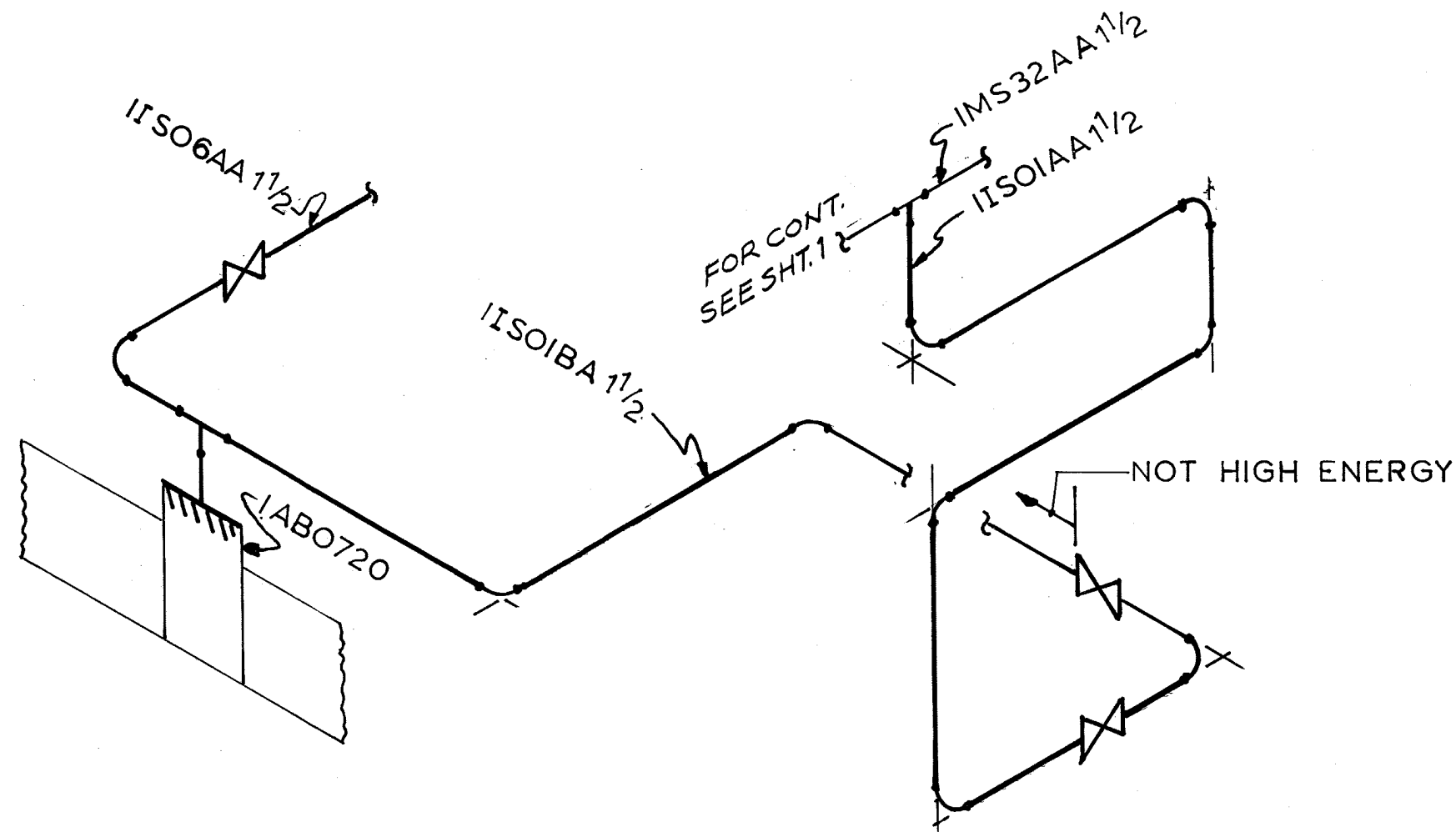
NOT HIGH
ENERGY

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)

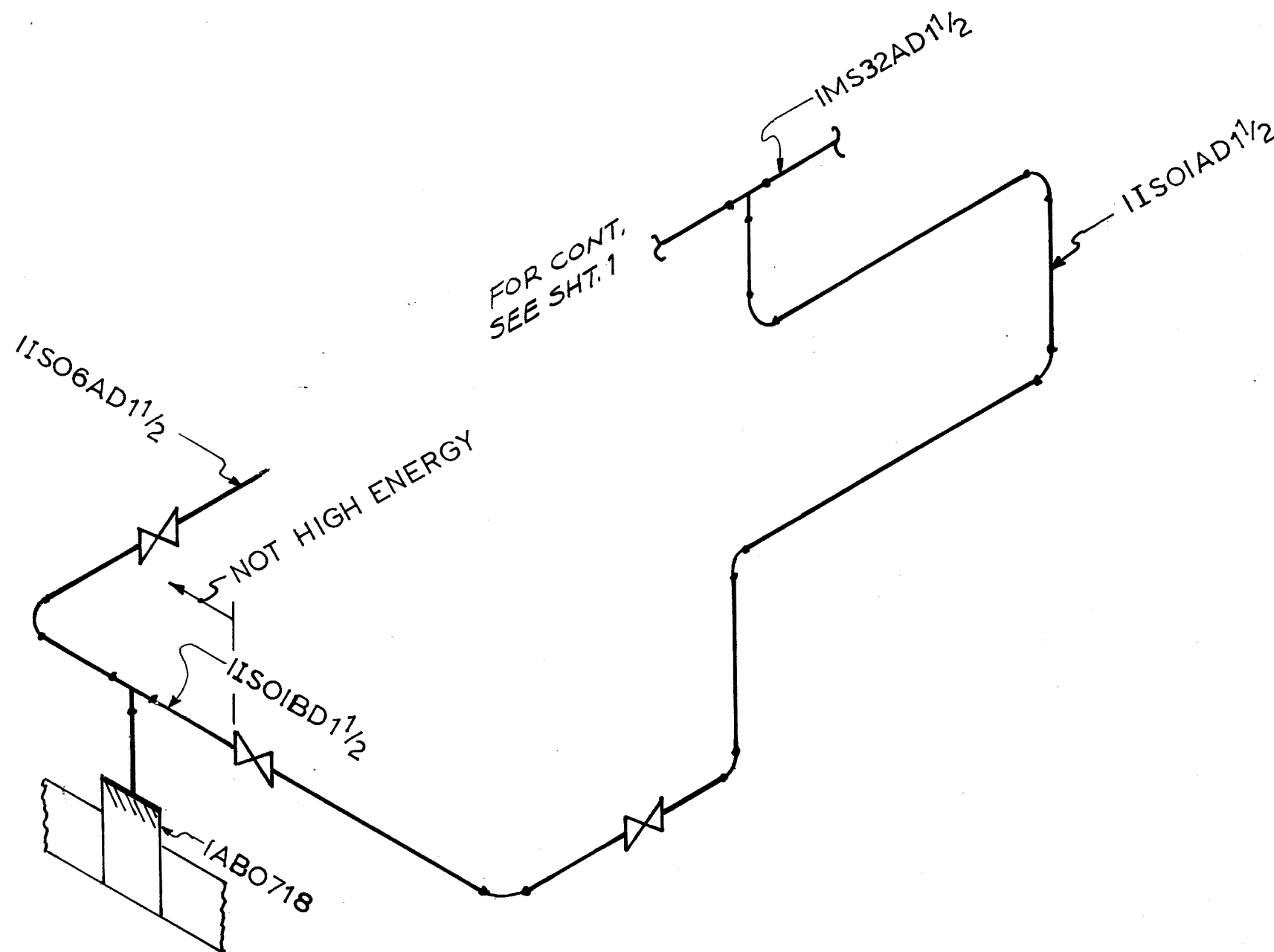


NOTE:

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)

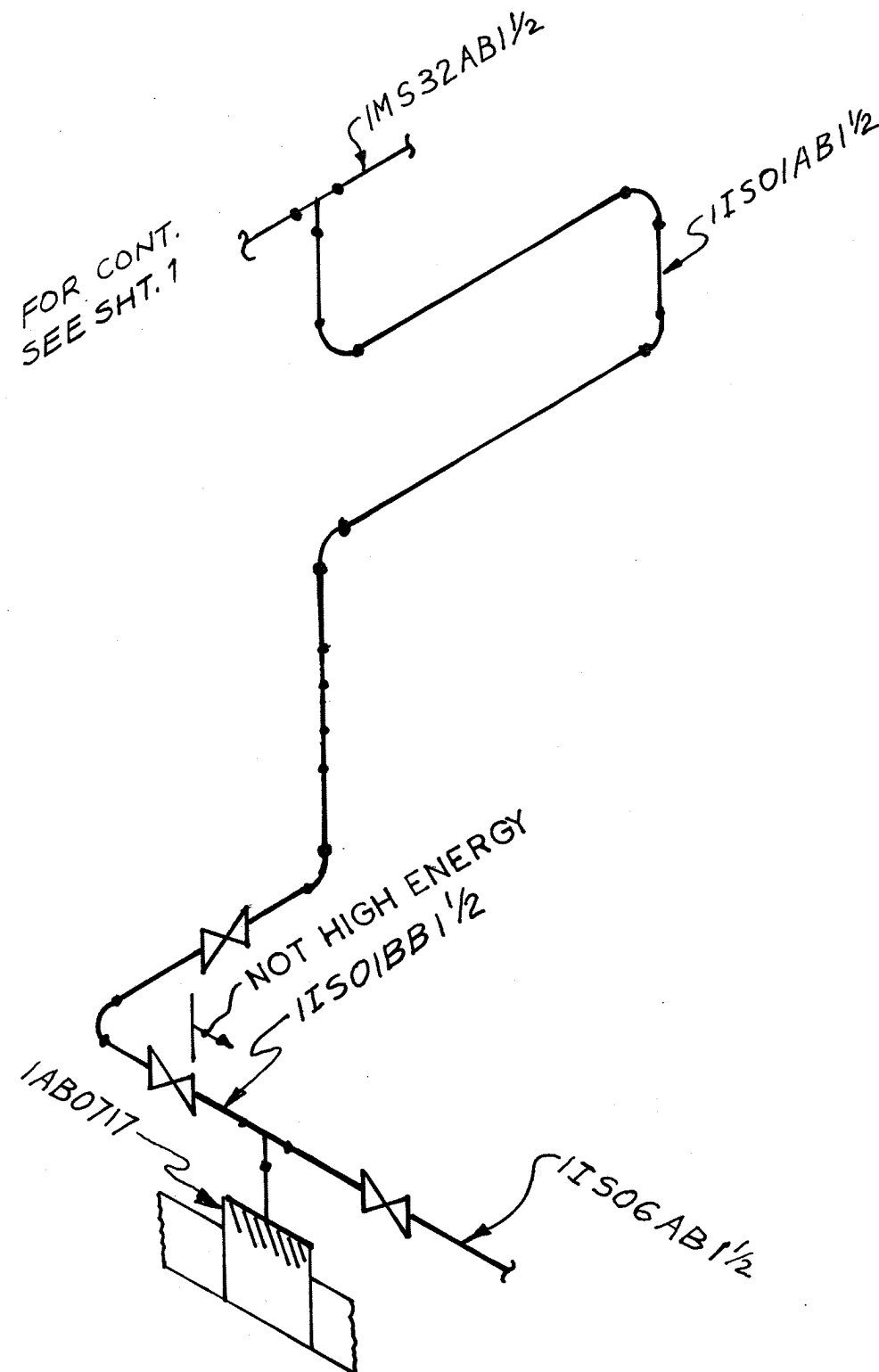


NOTE:

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)

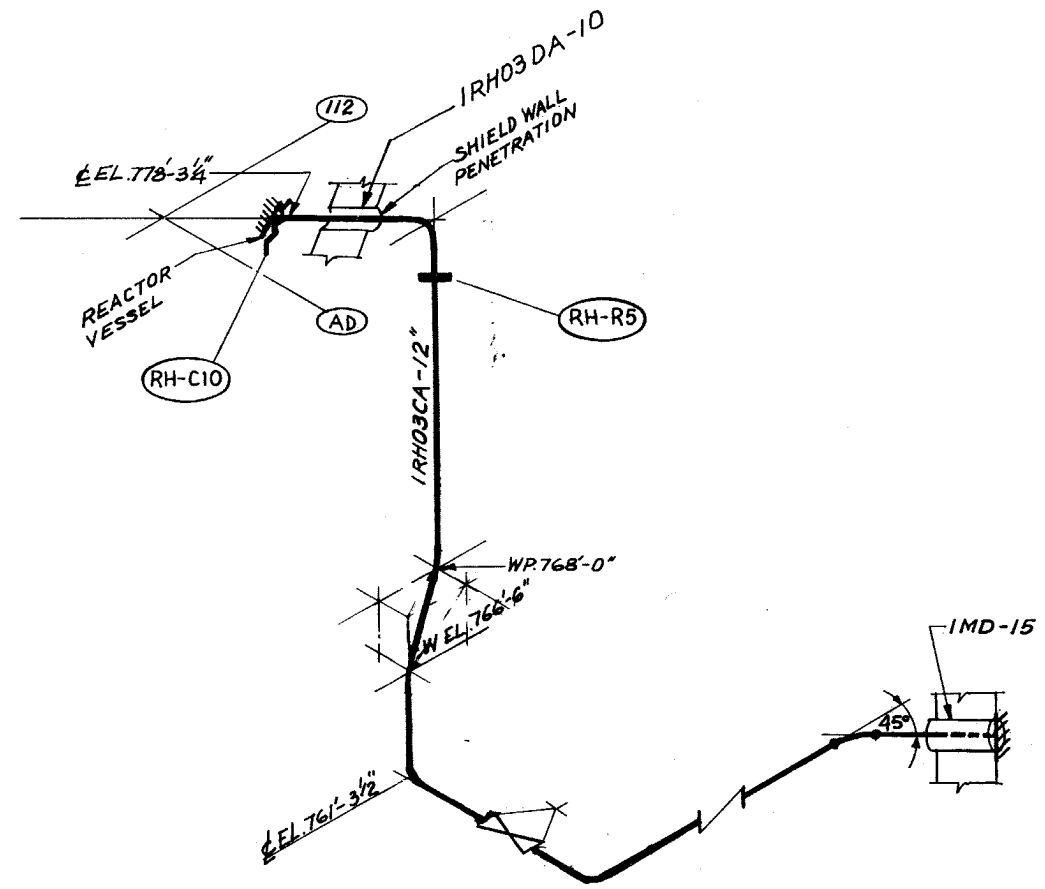


NOTE:

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

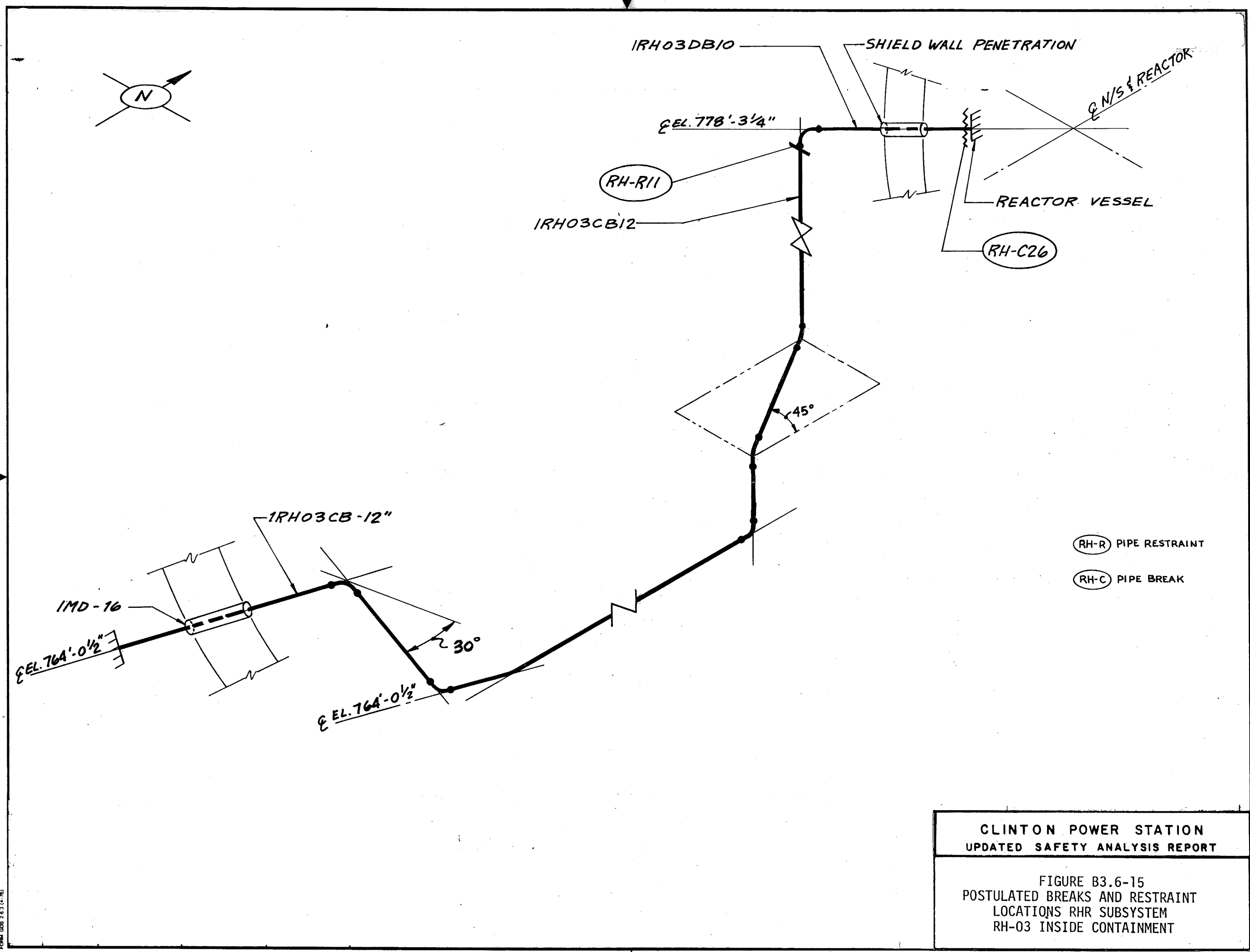
FIGURE B3.6-13
POSTULATED BREAKS AND RESTRAINT
LOCATIONS MAIN STEAM DRAIN SUBSYSTEM
MS-38A OUTSIDE CONTAINMENT
(SHEET 5 OF 5)



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

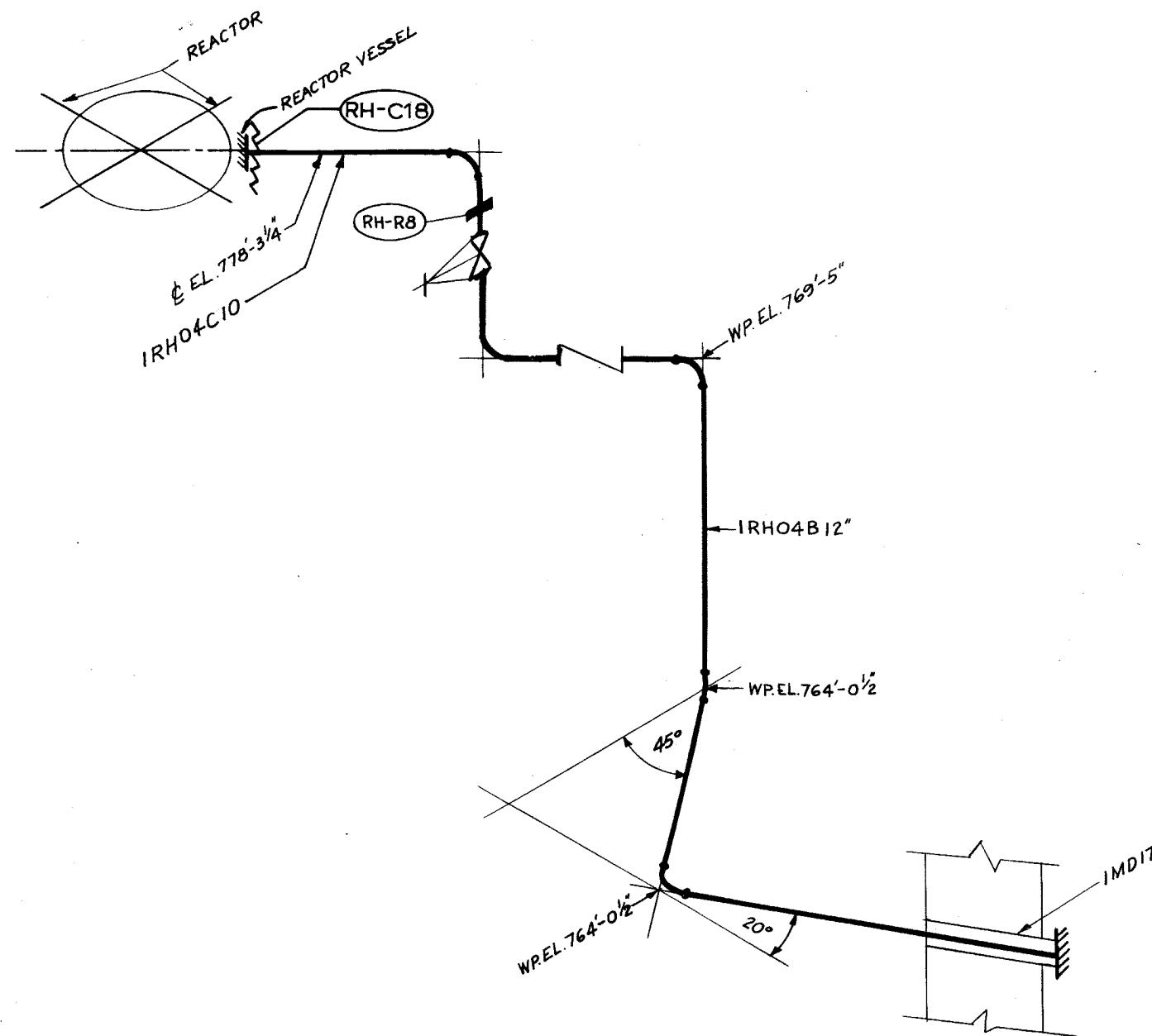
CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

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



CLINTON POWER STATION
 UPDATED SAFETY ANALYSIS REPORT

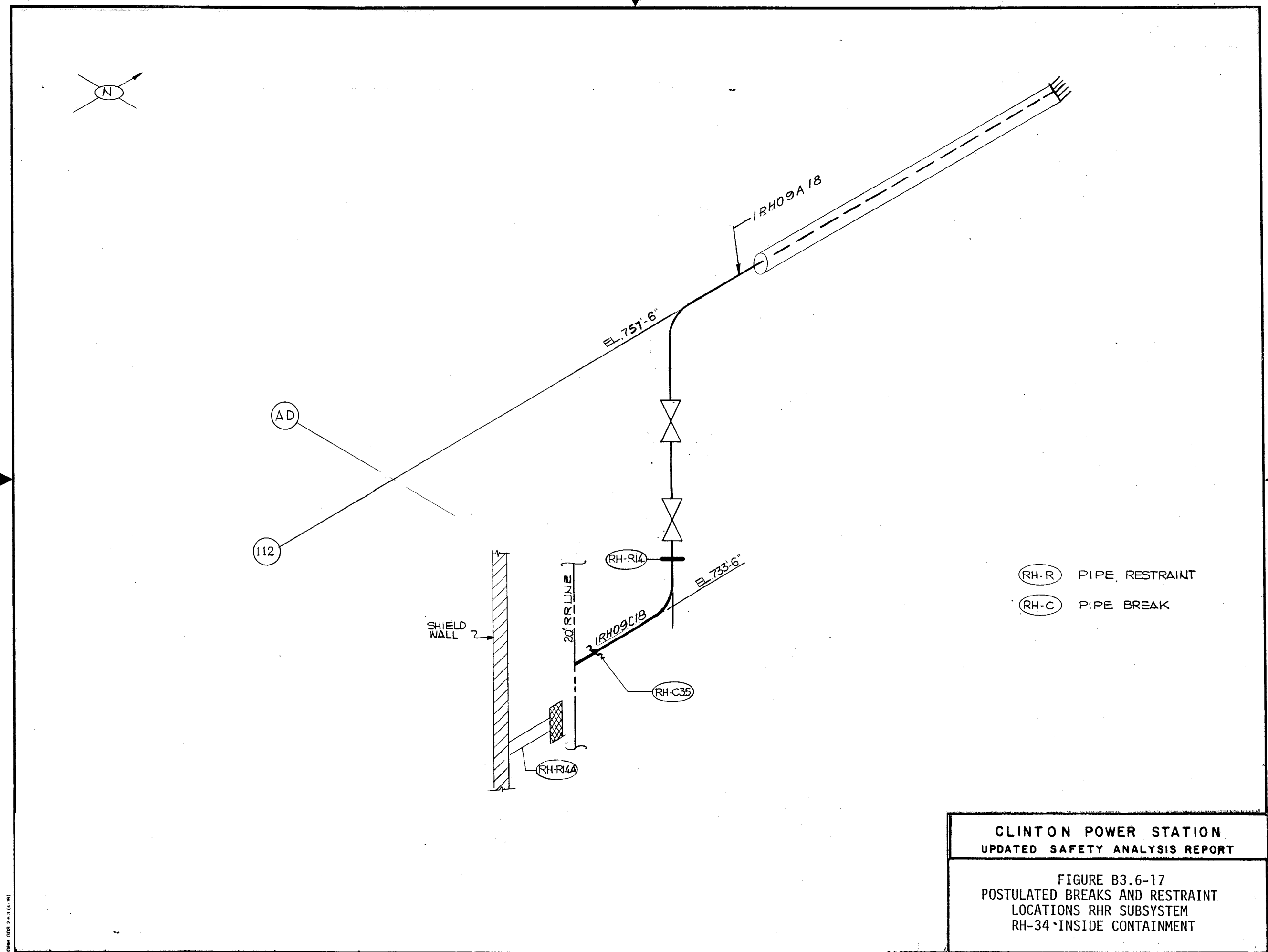
FIGURE B3.6-15
 POSTULATED BREAKS AND RESTRAINT
 LOCATIONS RHR SUBSYSTEM
 RH-03 INSIDE CONTAINMENT



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

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

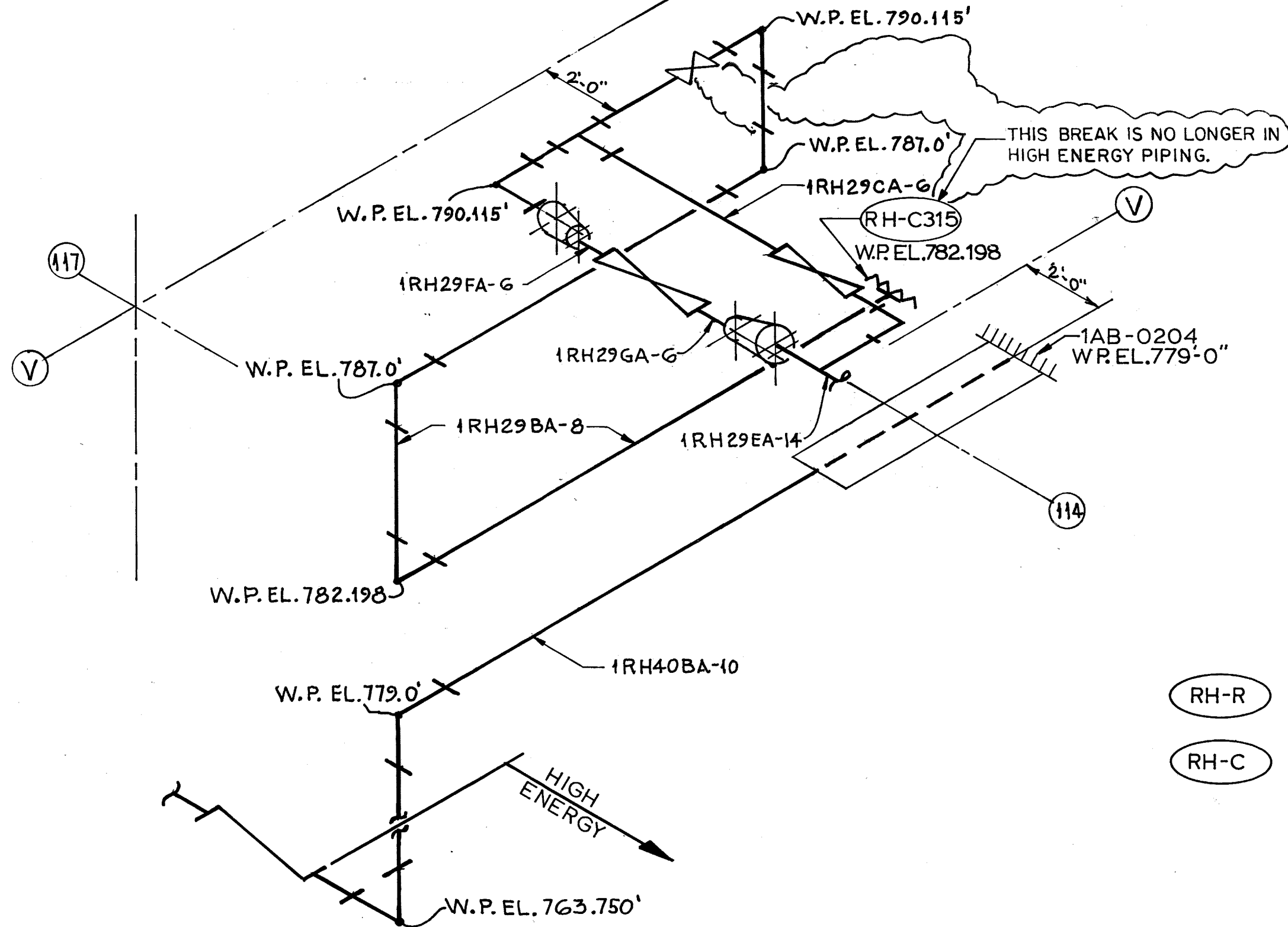
FIGURE B3.6-16
POSTULATED BREAKS AND RESTRAINT
LOCATIONS RHR SUBSYSTEM
RH-05 INSIDE CONTAINMENT



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

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

NORTH

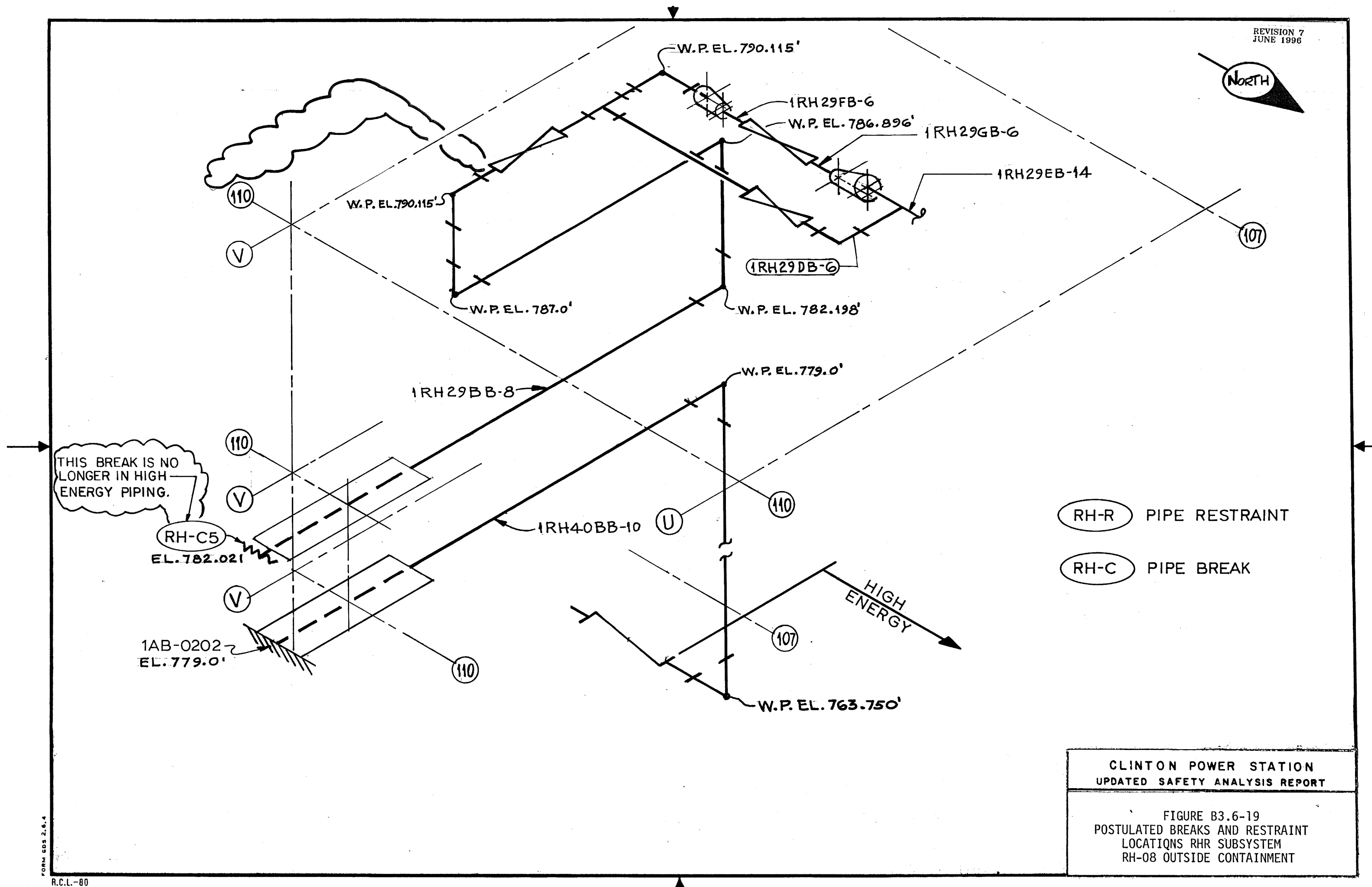


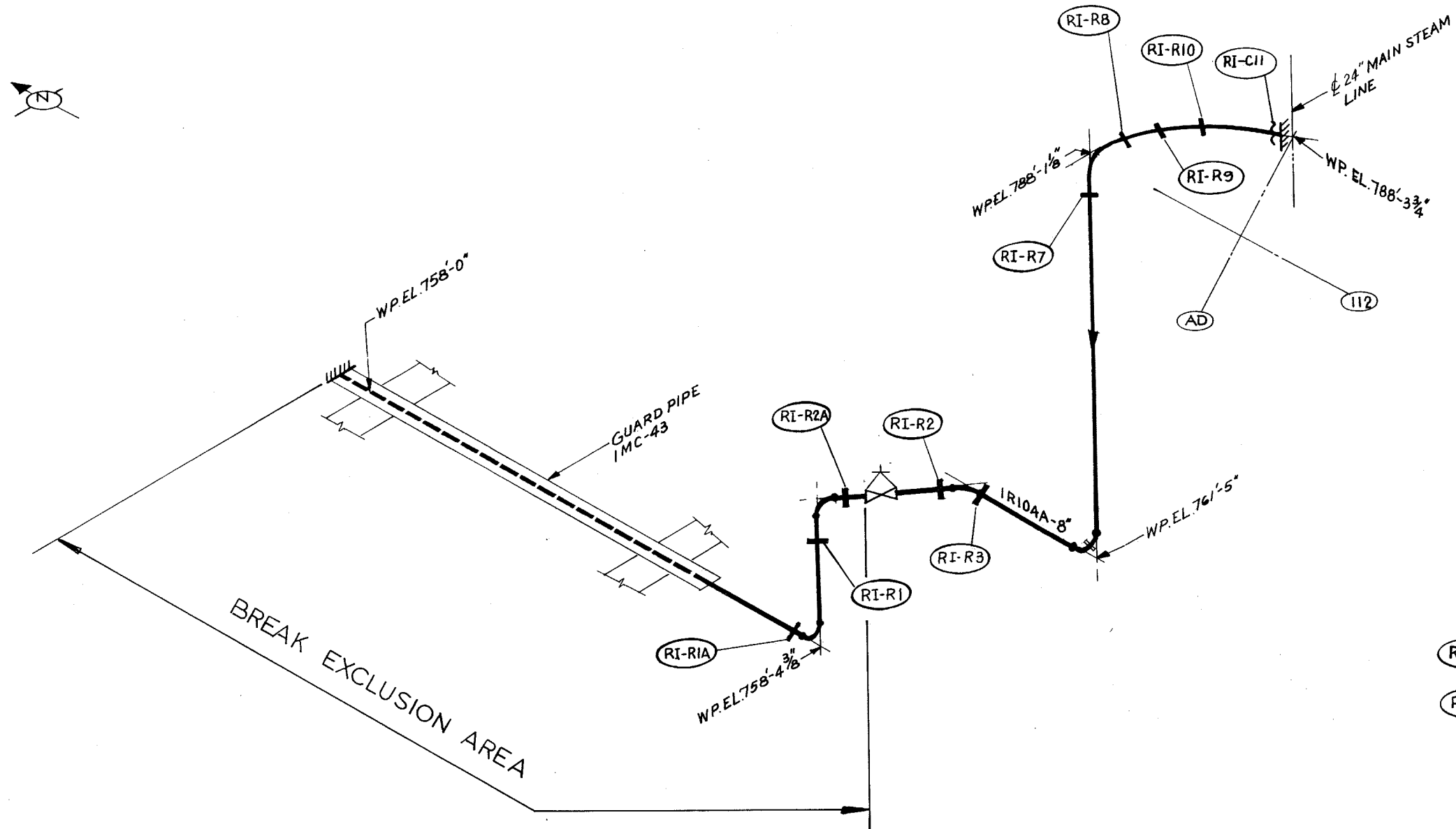
- RH-R PIPE RESTRAINT
- RH-C PIPE BREAK

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

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

NORTH





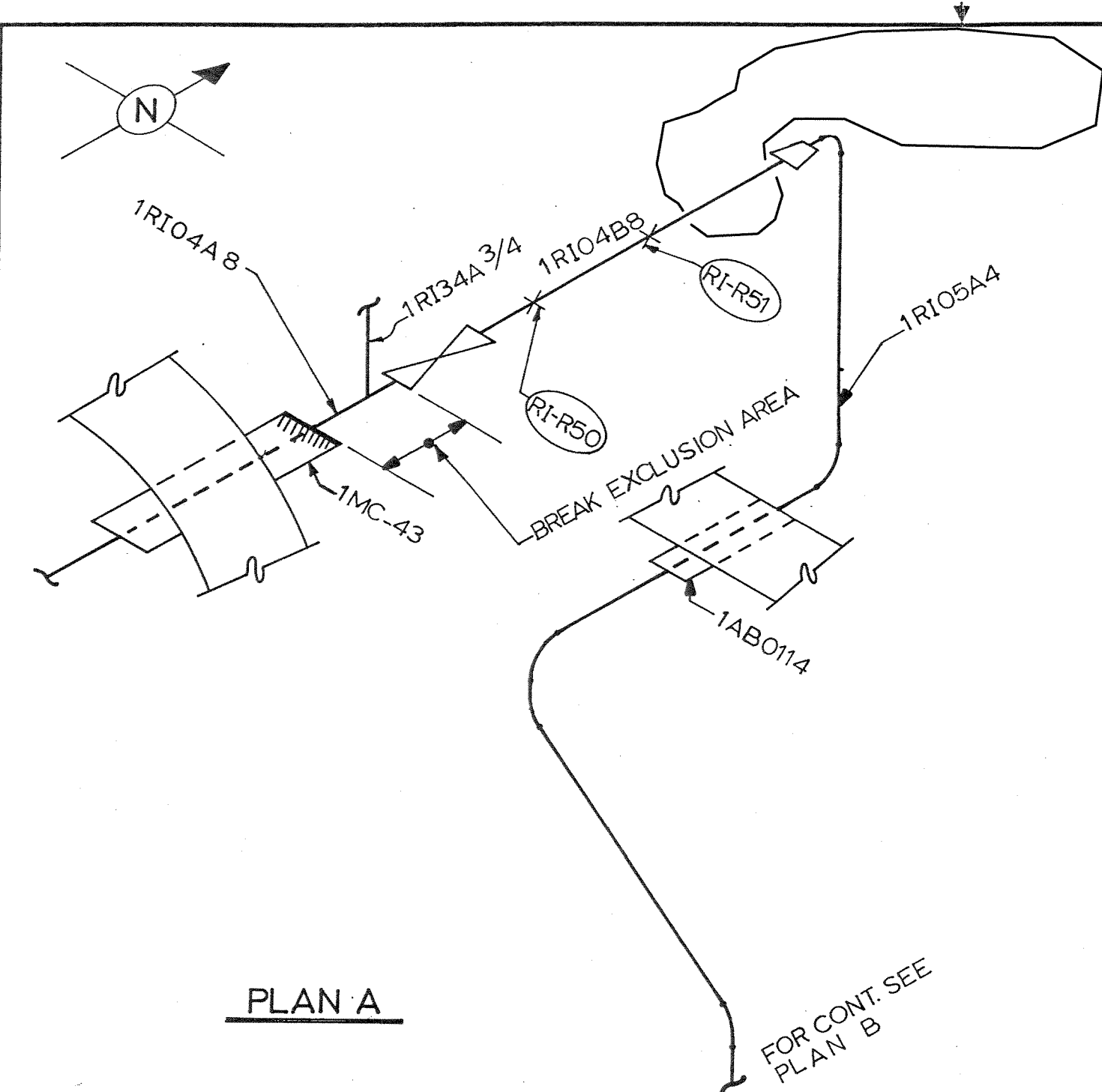
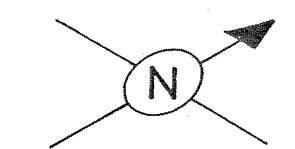
RI-R PIPE RESTRAINT

RI-C PIPE BREAK

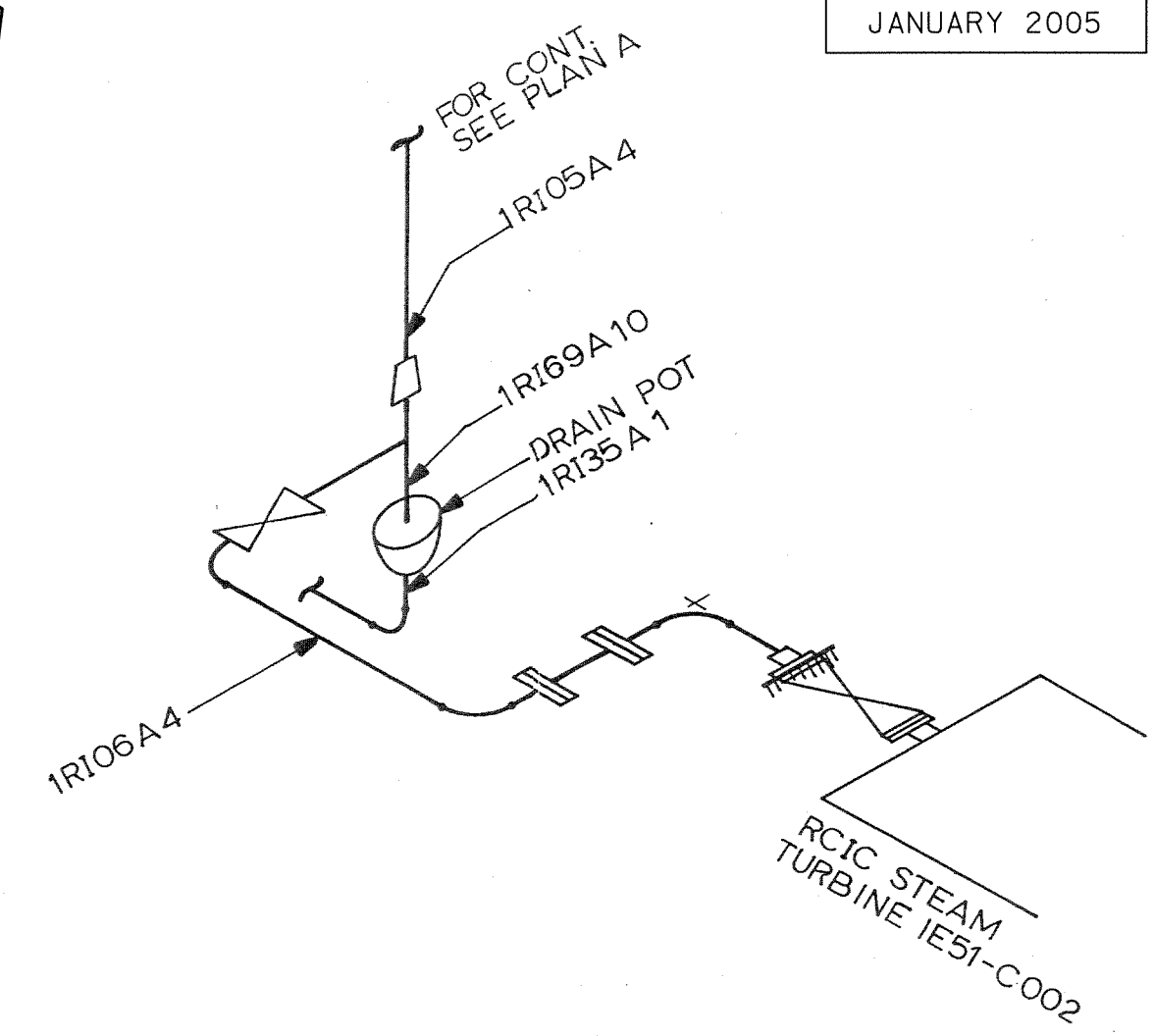
CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

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

REVISION 11
JANUARY 2005



PLAN A



PLAN B

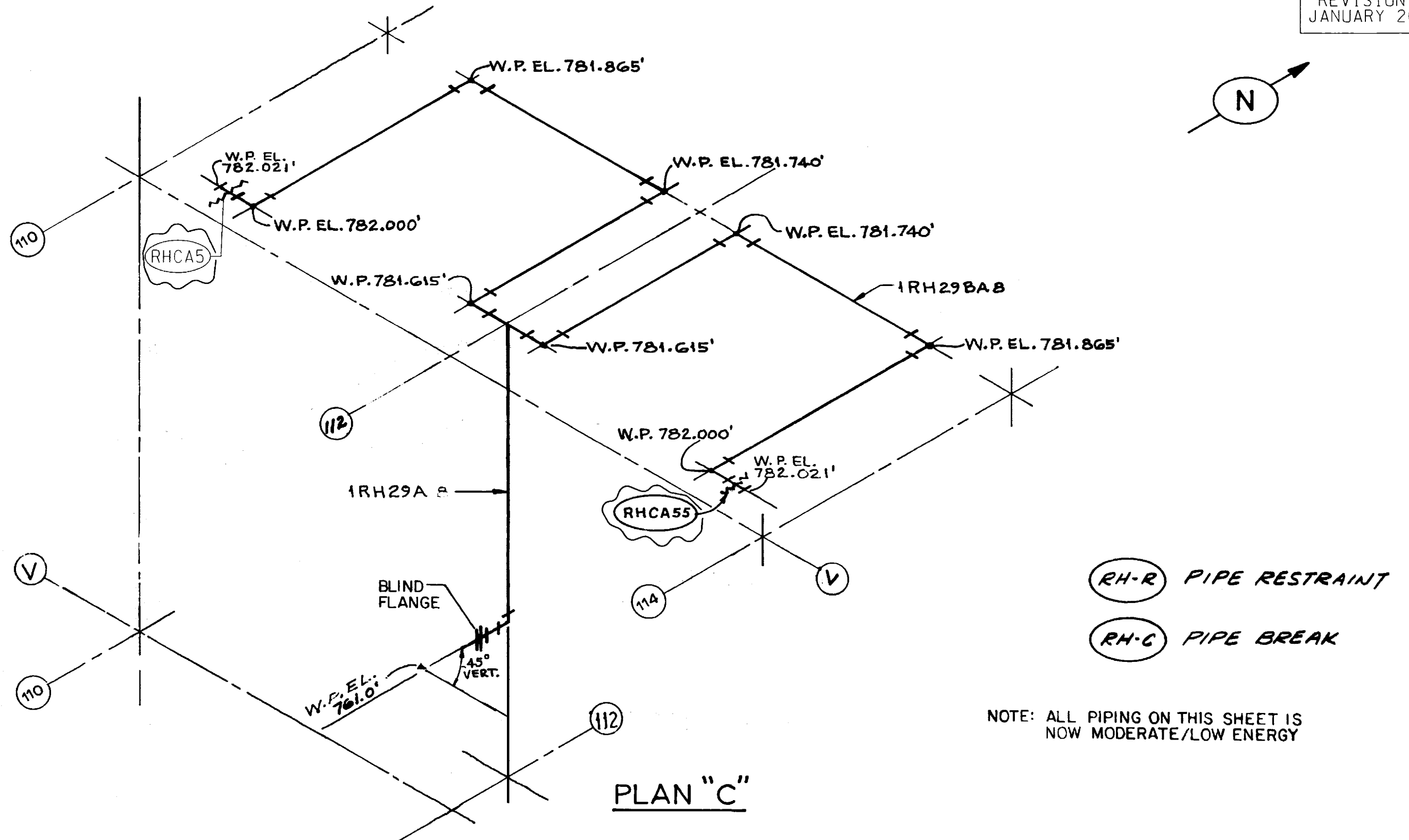
- (RI-R) PIPE RESTRAINT
- (RI-C) PIPE BREAK

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)

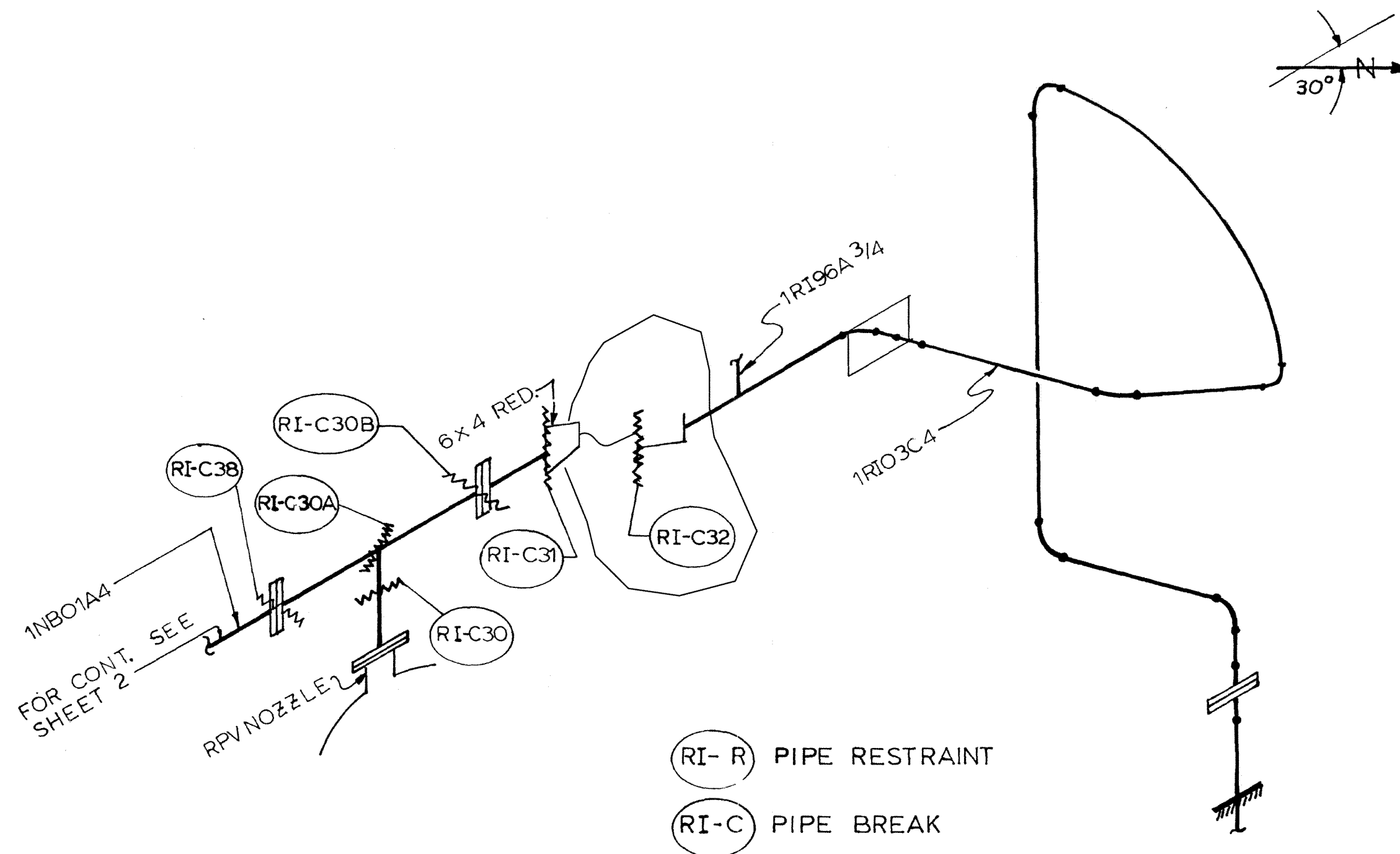
FORM 309 2-8-4

R.C.I. -80



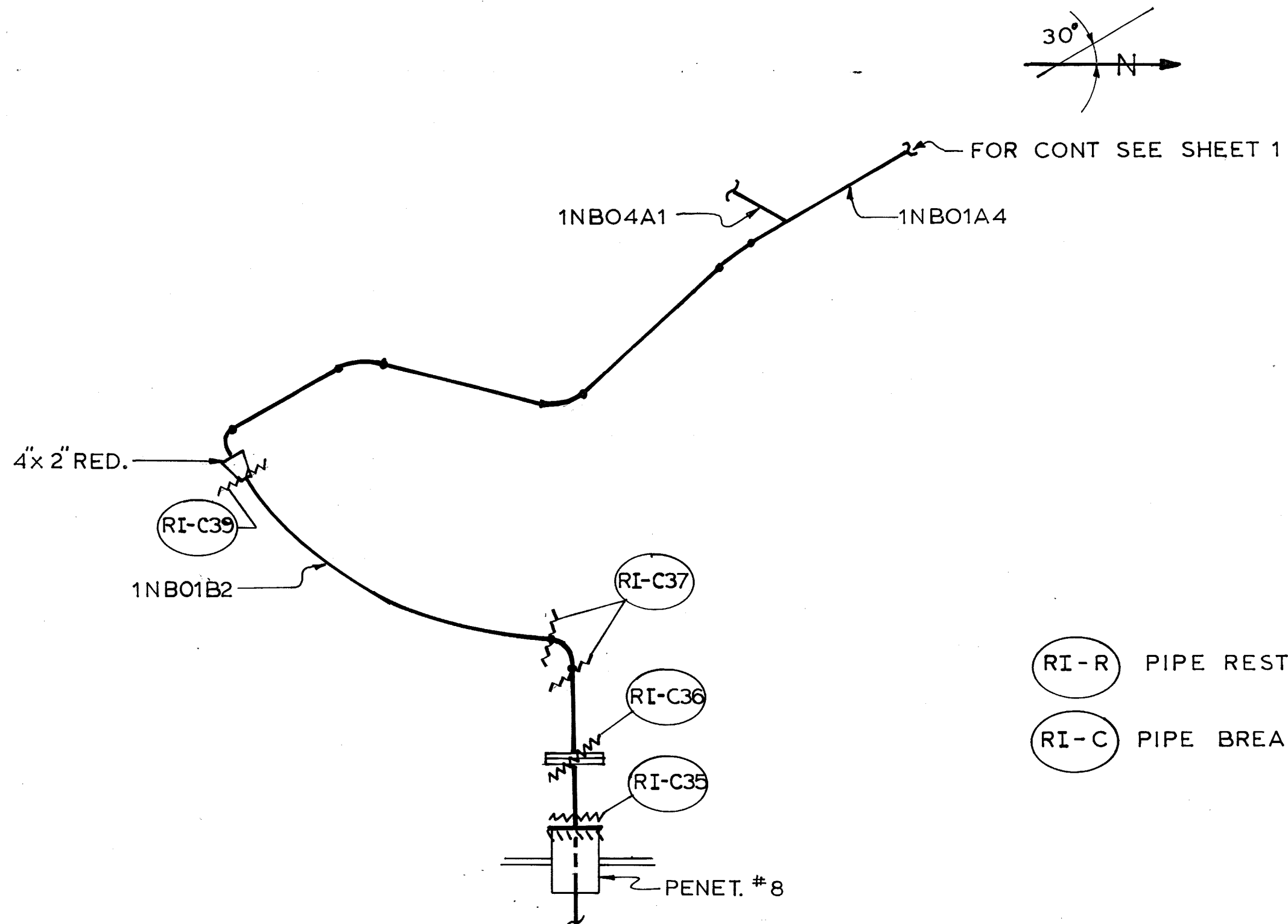
CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

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

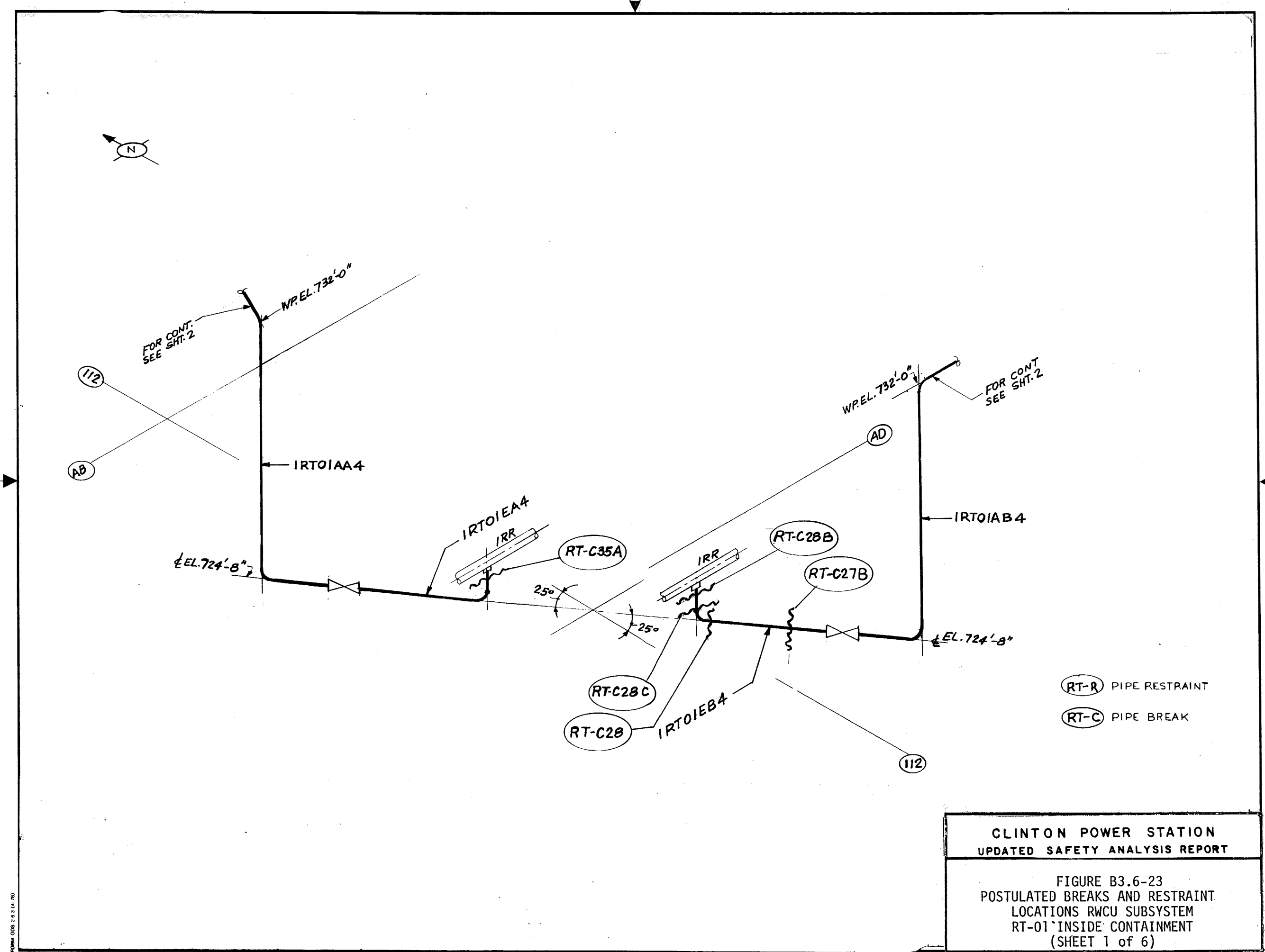


(RI-R) PIPE RESTRAINT
 (RI-C) PIPE BREAK

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE B3.6-22

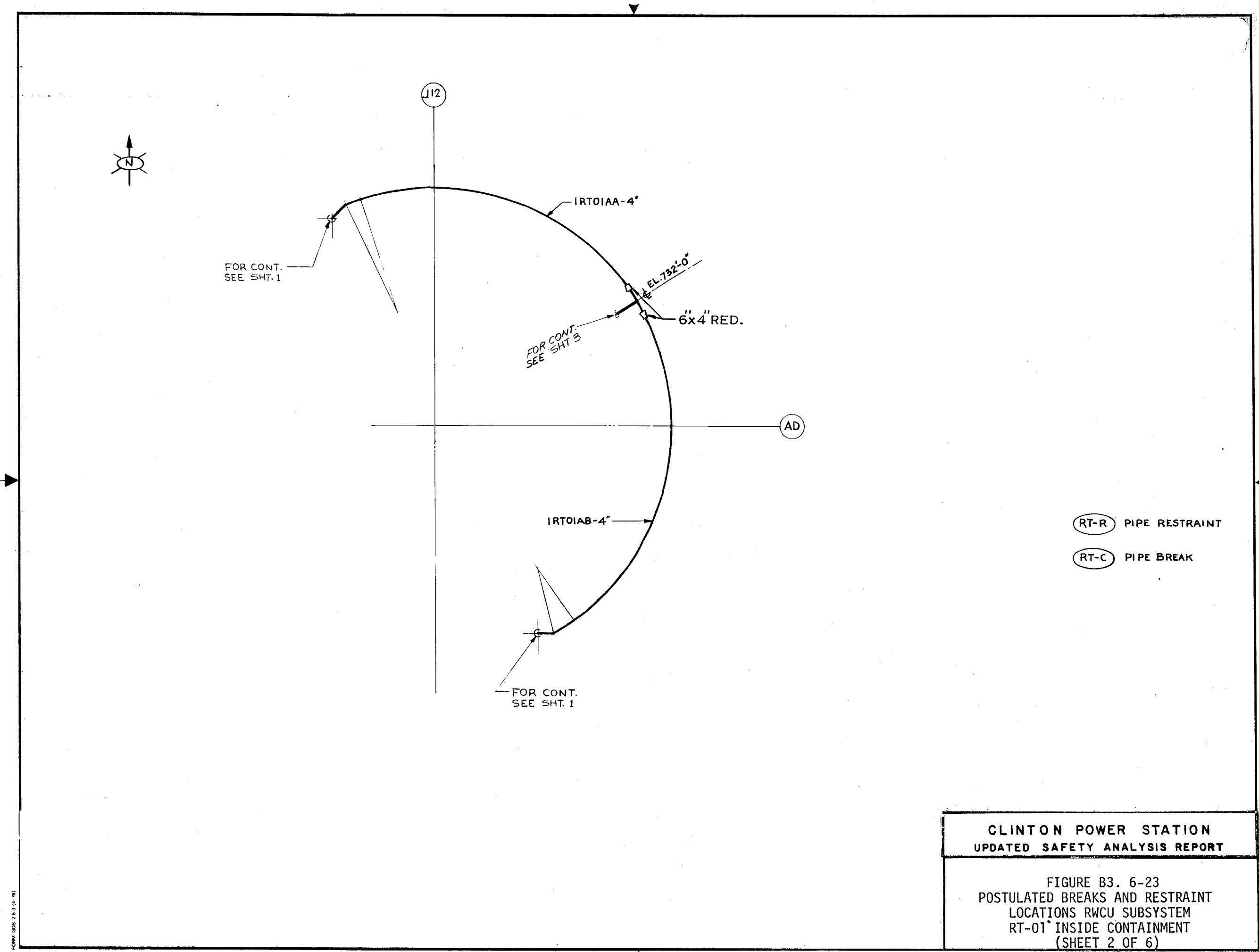
POSTULATED BREAKS AND RESTRAINT
 LOCATIONS RCIC HEAD SPRAY
 SUBSYSTEM RI-11 INSIDE CONTAINMENT
 (SHEET 2 OF 2)



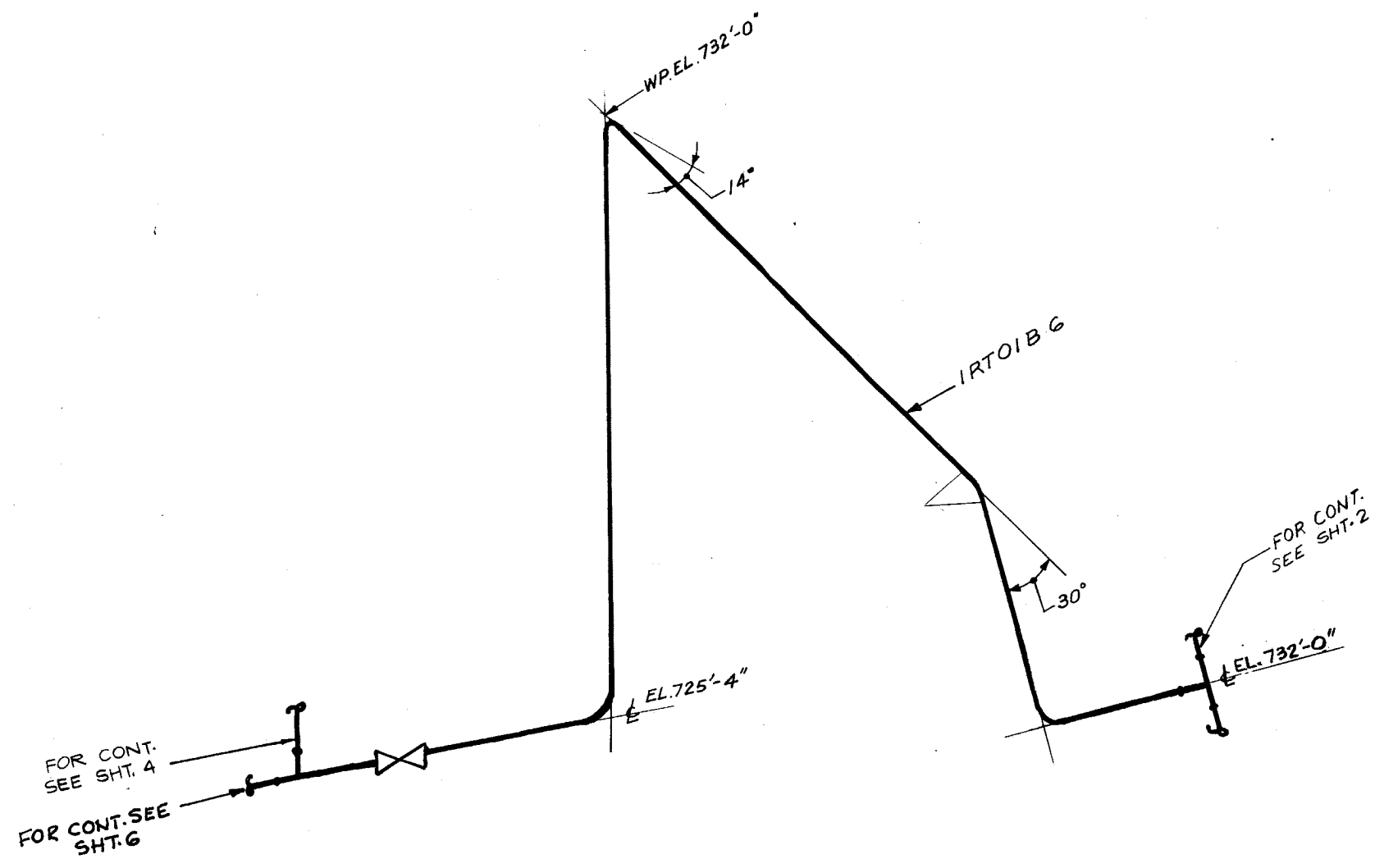
CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

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

FORM GDS 2 63 (4-78)



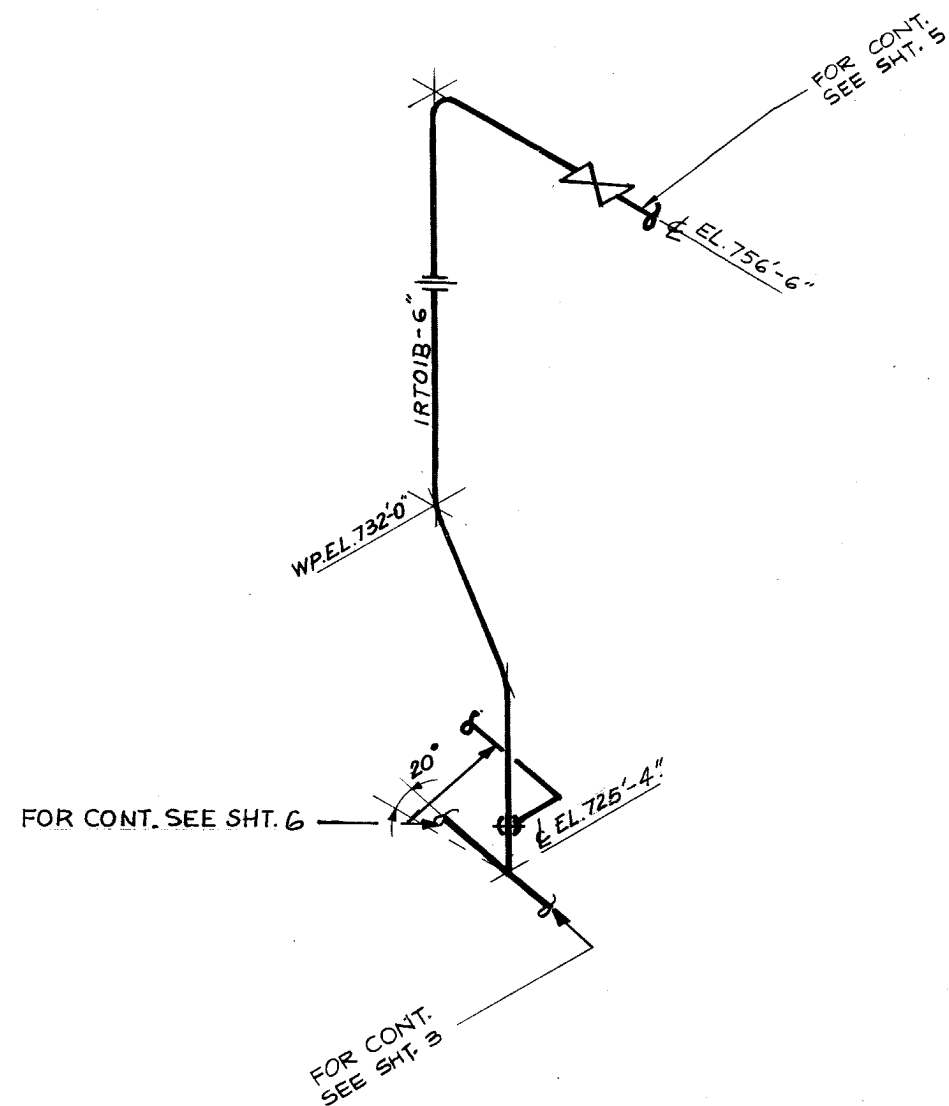
<p>CLINTON POWER STATION UPDATED SAFETY ANALYSIS REPORT</p>
<p>FIGURE B3. 6-23 POSTULATED BREAKS AND RESTRAINT LOCATIONS RWCU SUBSYSTEM RT-01 INSIDE CONTAINMENT (SHEET 2 OF 6)</p>



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

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

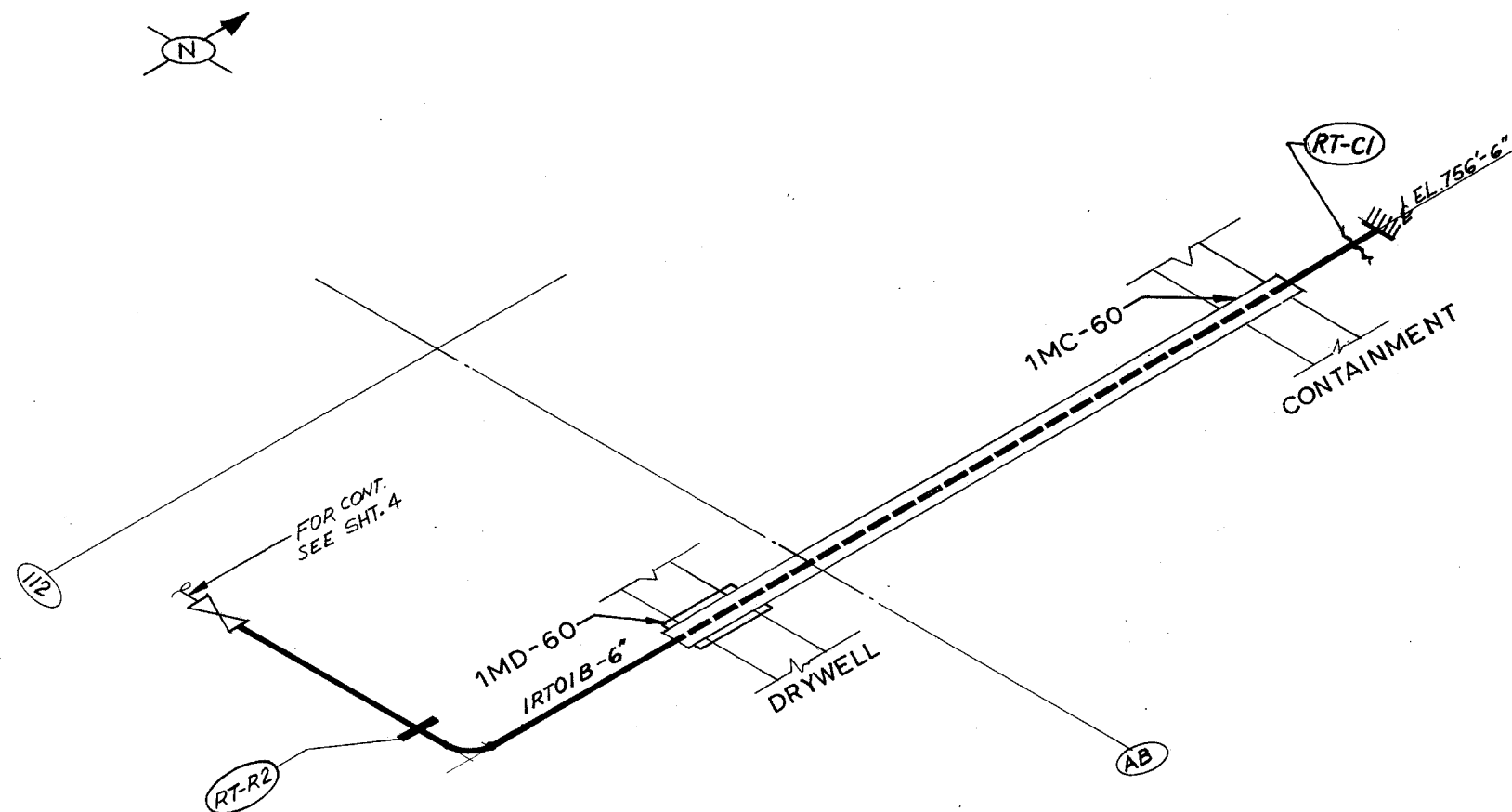
FIGURE B3.6-23
POSTULATED BREAKS AND RESTRAINT
LOCATIONS RWC SUBSYSTEM
RT-01 INSIDE CONTAINMENT
(SHEET 3 OF 6)



- (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)

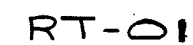
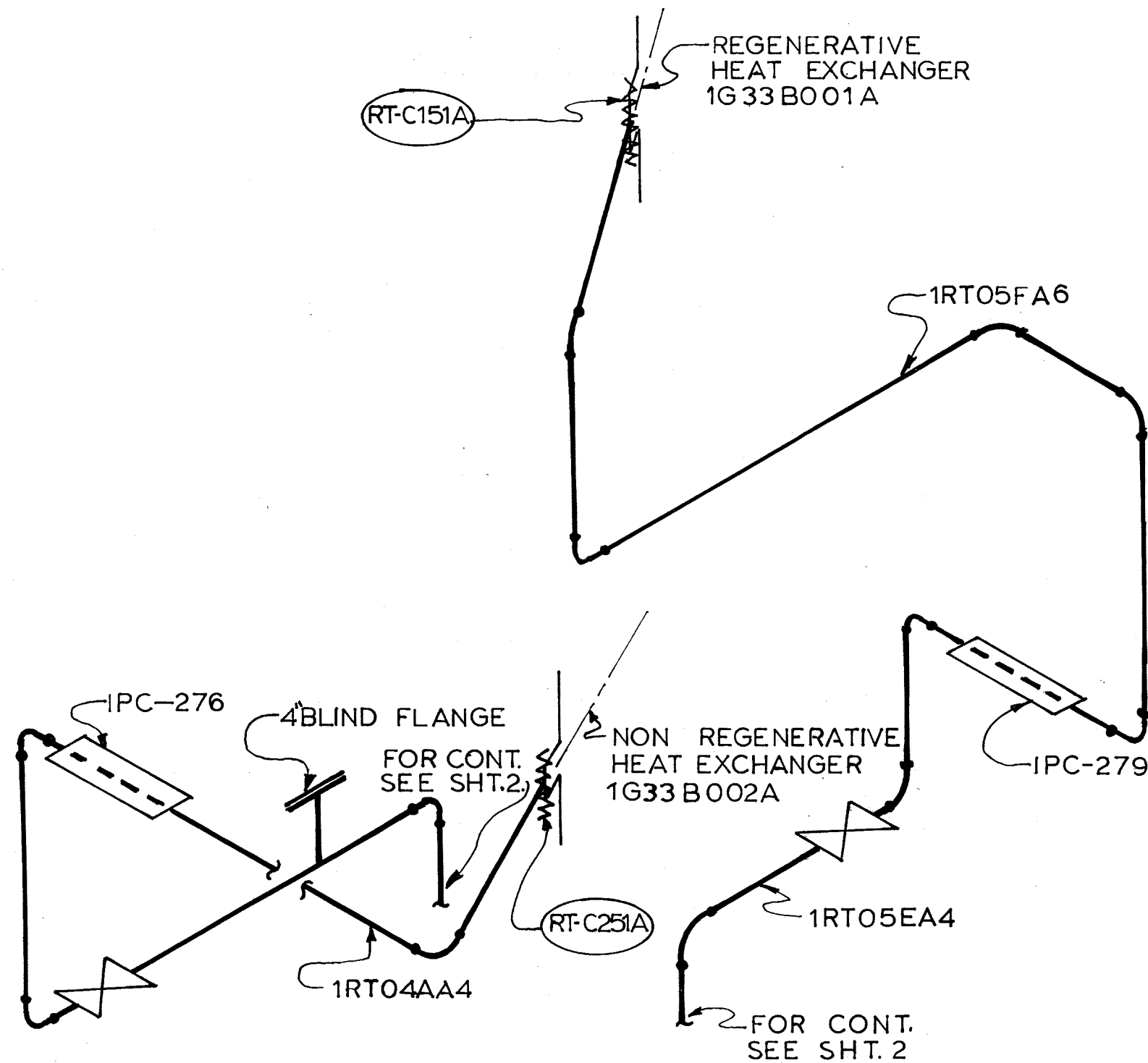


FIGURE B3.6-23
POSTULATED BREAKS AND RESTRAINT
LOCATIONS RWCU SUBSYSTEM
RT-01 INSIDE CONTAINMENT
(SHEET 6 OF 6)

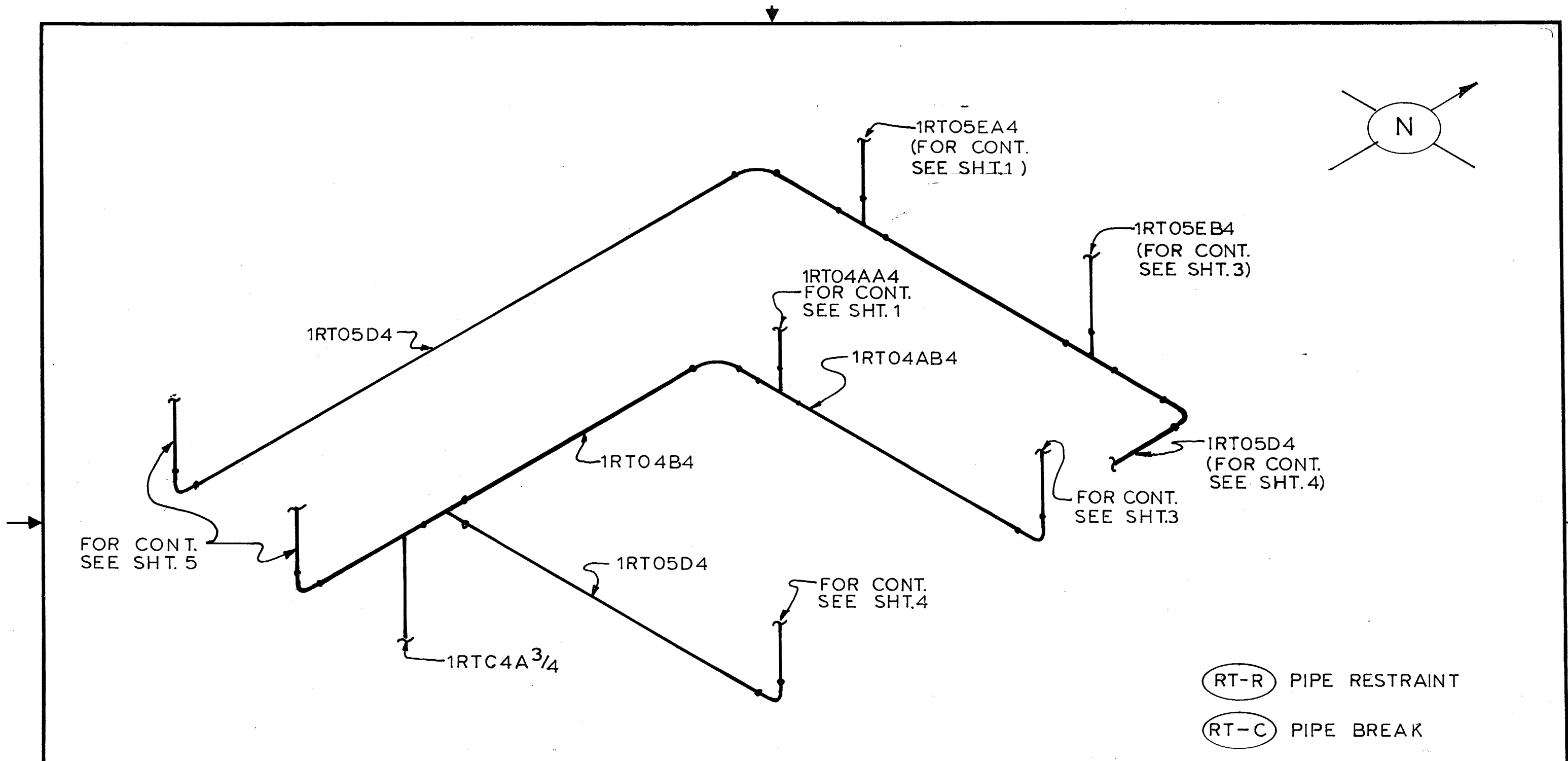


RT-R PIPE RESTRAINT

RT-C PIPE BREAK

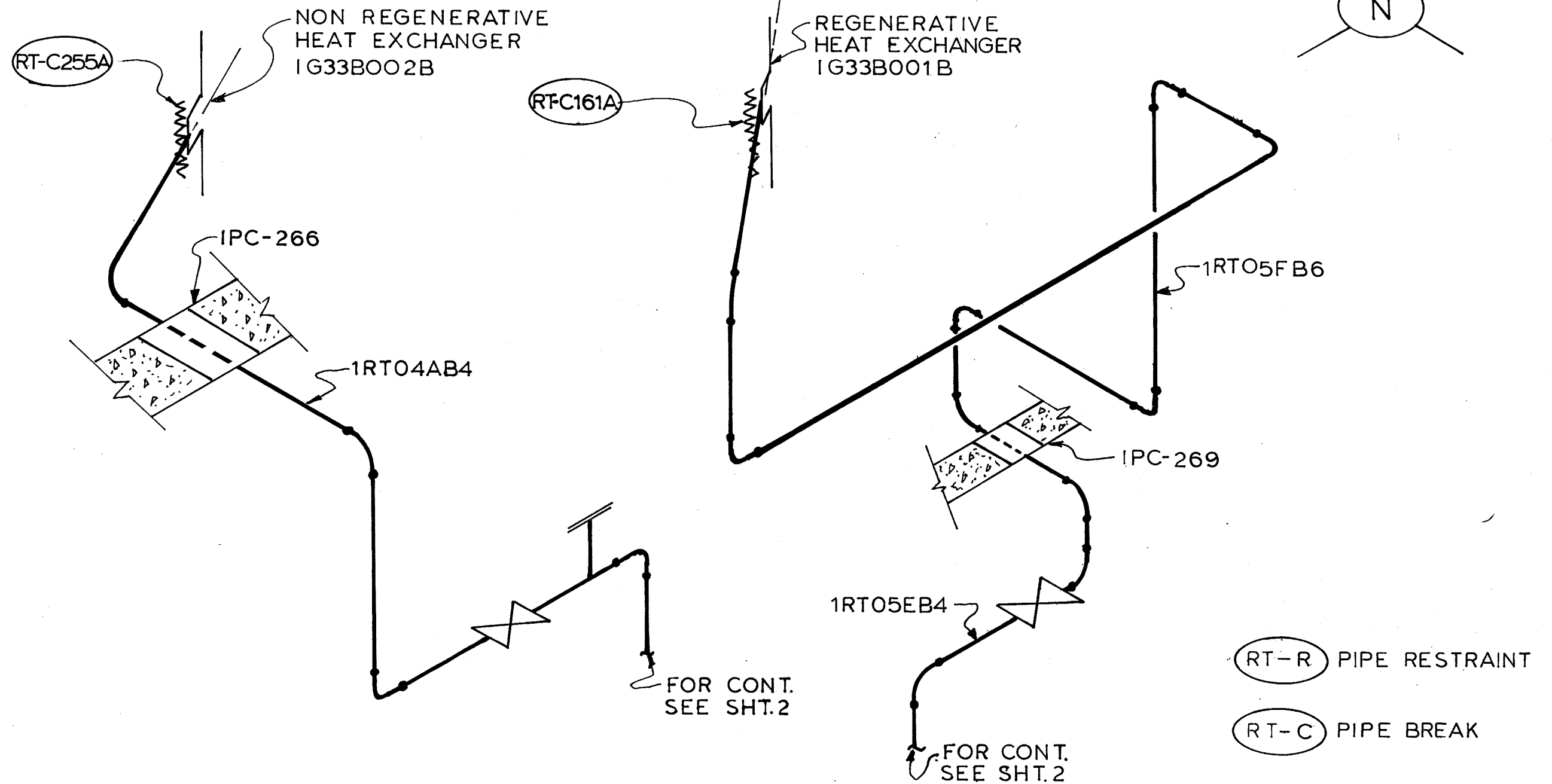
CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

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



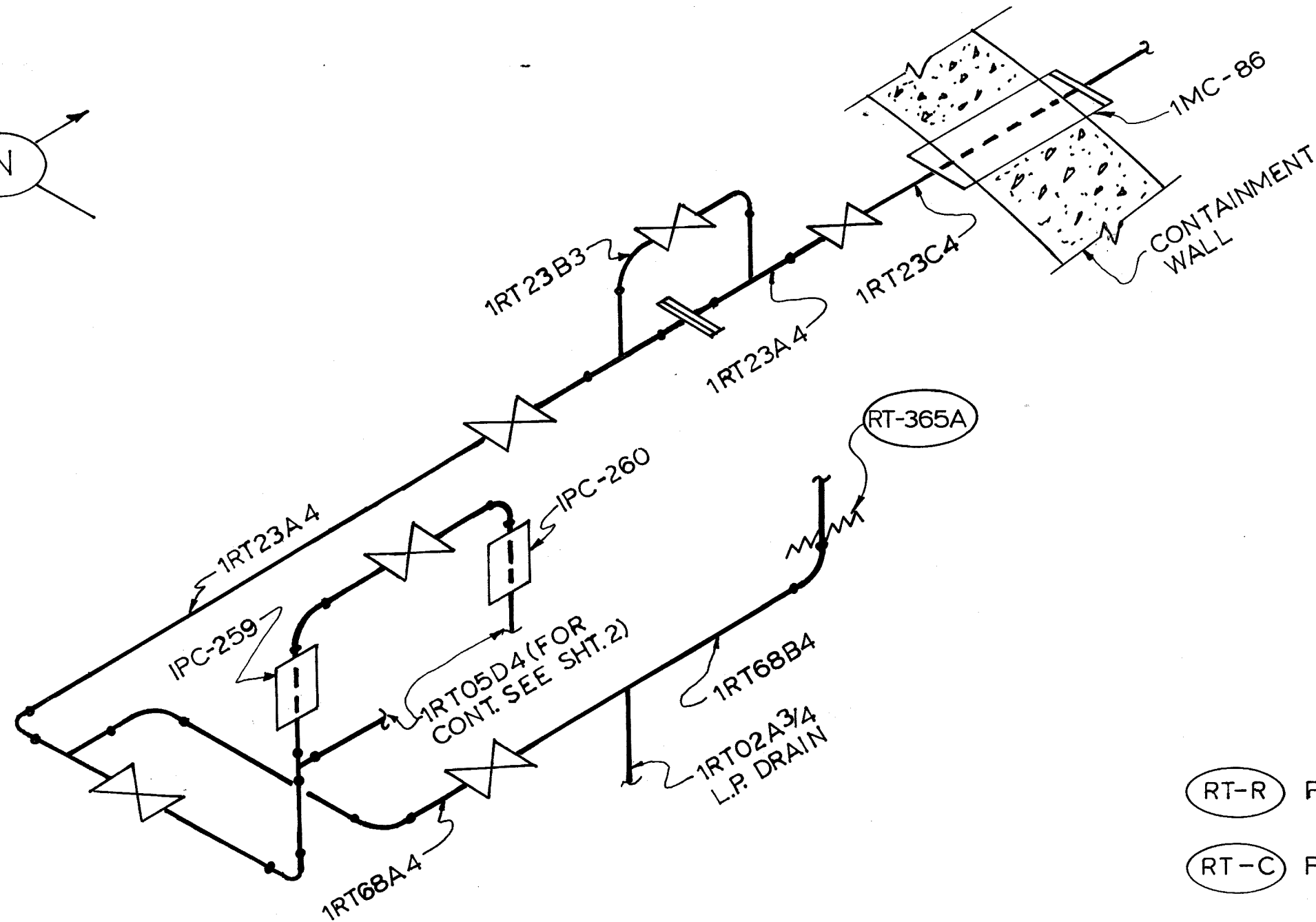
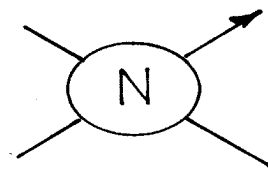
- (RT-R) PIPE RESTRAINT
- (RT-C) PIPE BREAK

<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>



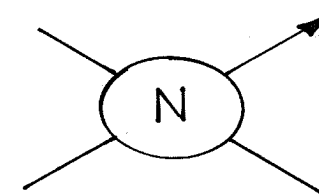
CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

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

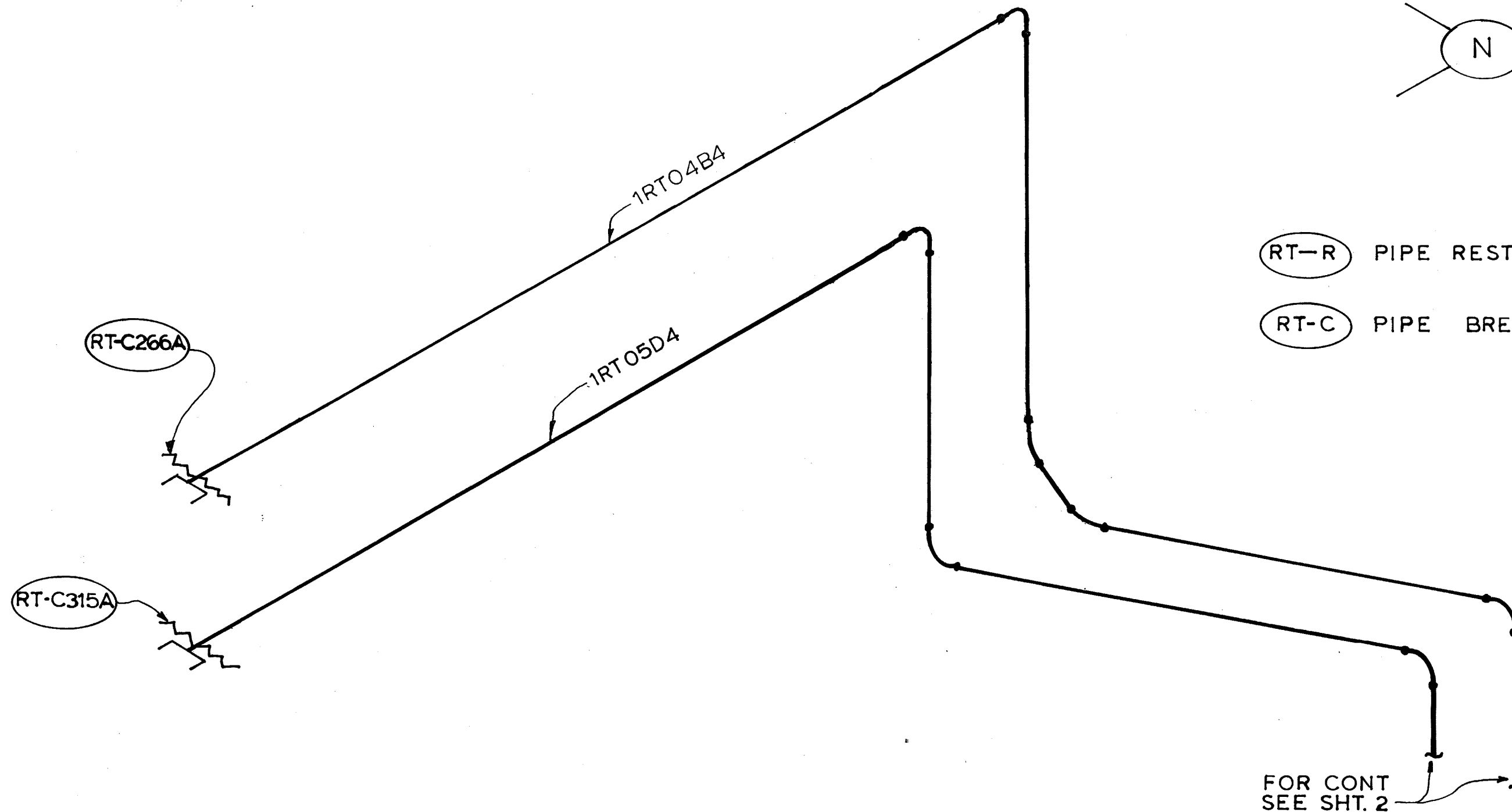


CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

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



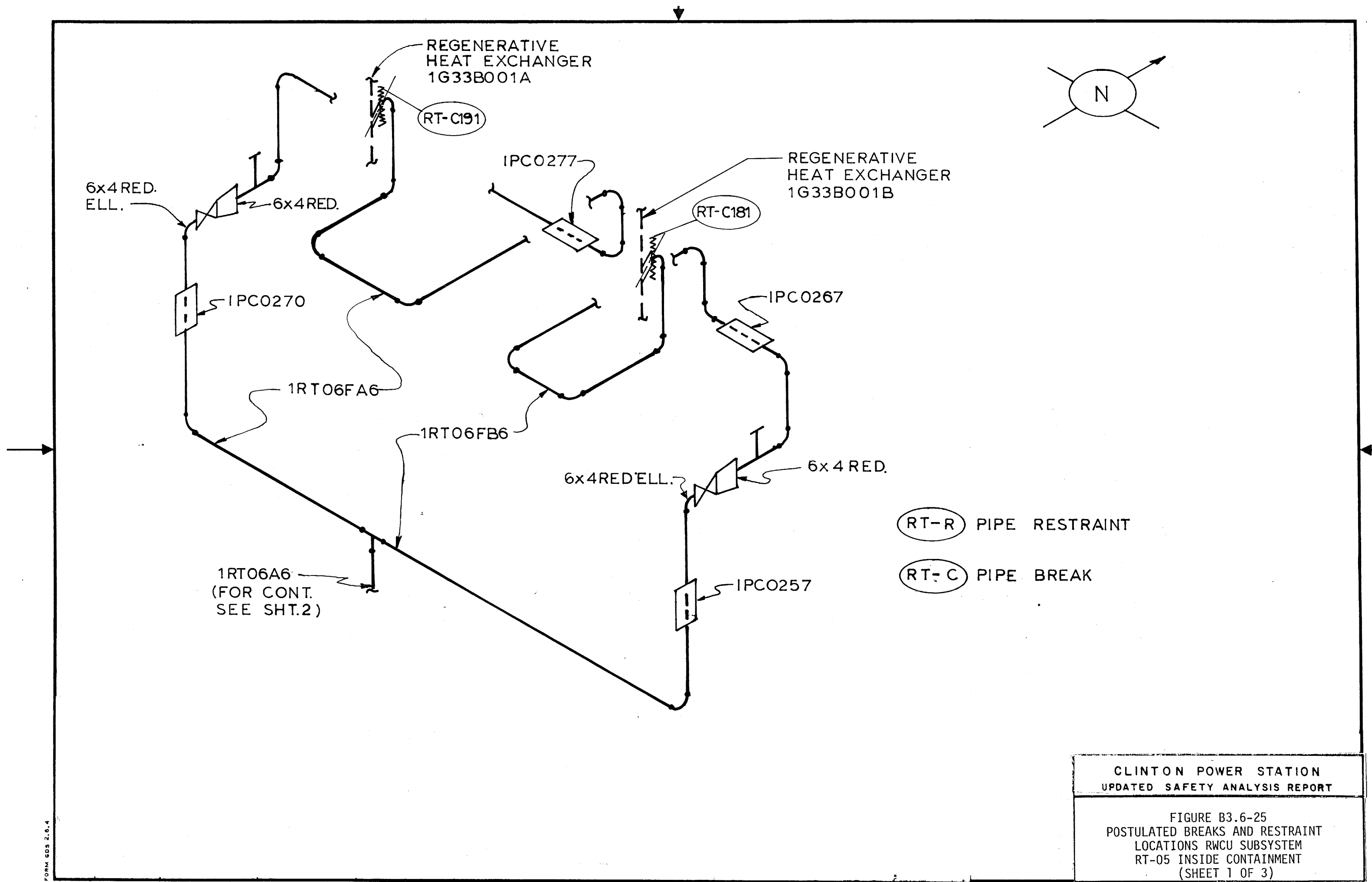
(RT-R) PIPE RESTRAINT
(RT-C) PIPE BREAK



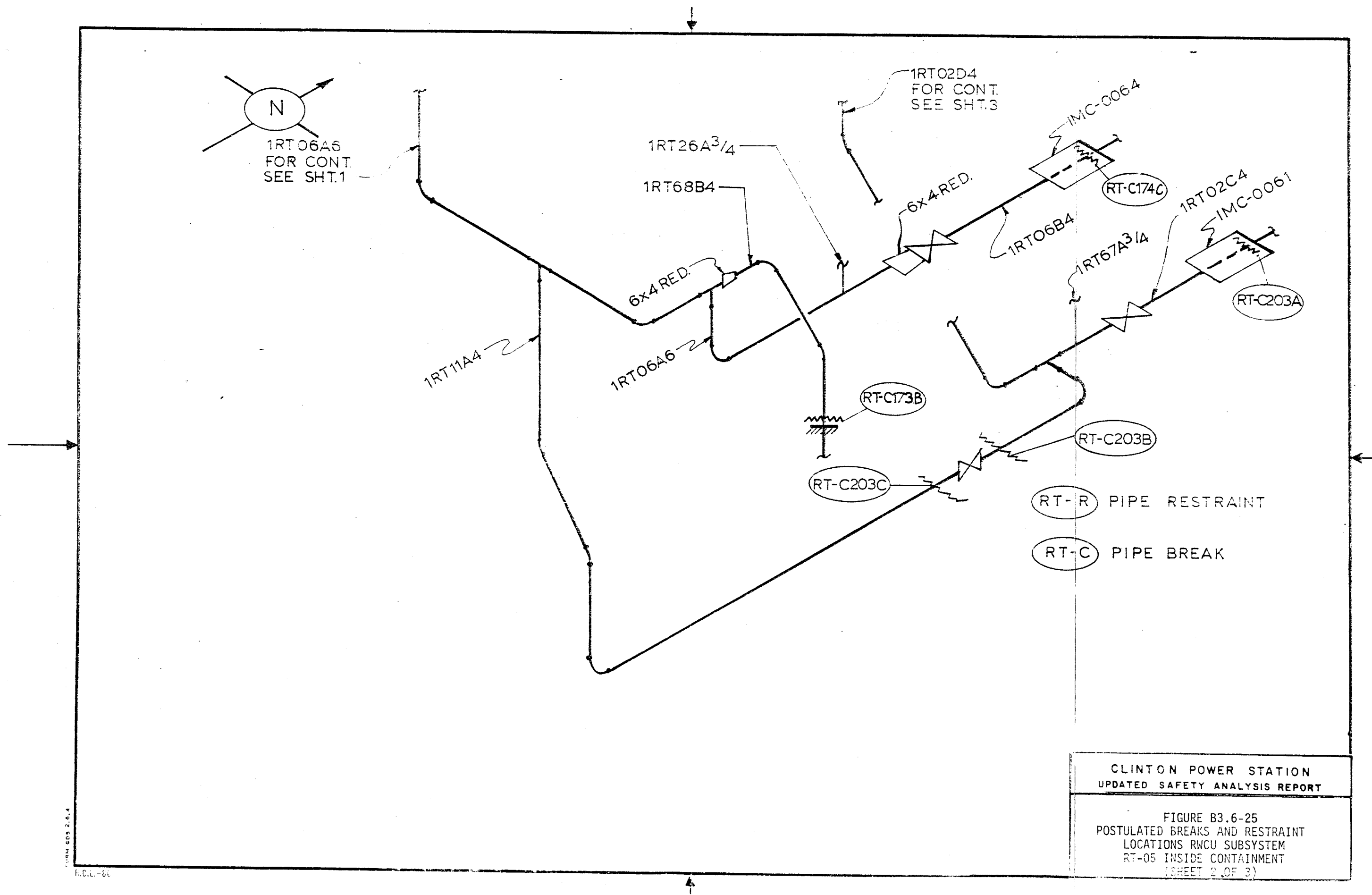
FOR CONT
SEE SHT. 2

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)

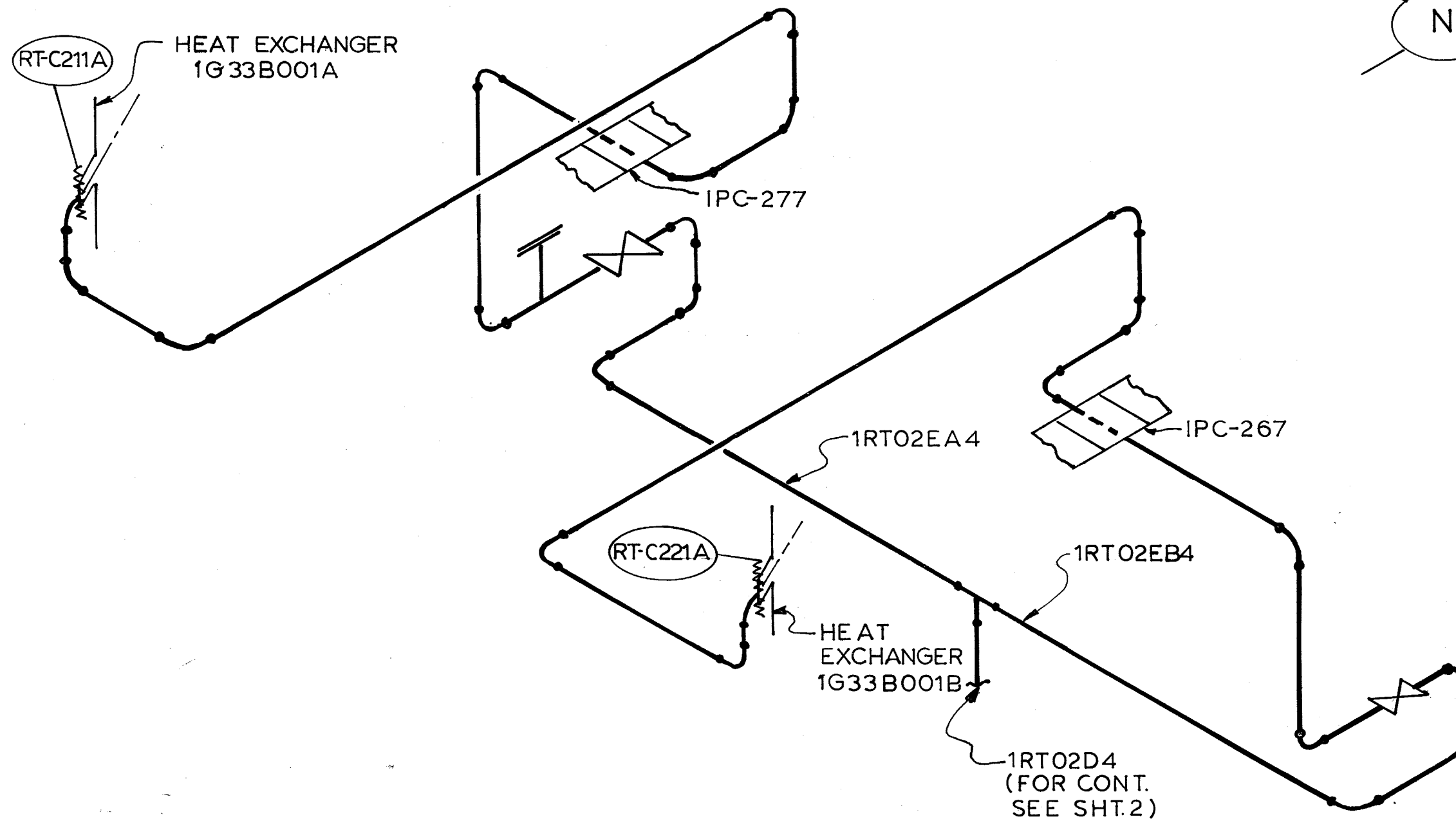


CLINTON POWER STATION UPDATED SAFETY ANALYSIS REPORT
FIGURE B3.6-25 POSTULATED BREAKS AND RESTRAINT LOCATIONS RWCU SUBSYSTEM RT-05 INSIDE CONTAINMENT (SHEET 1 OF 3)



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE B3.6-25
POSTULATED BREAKS AND RESTRAINT
LOCATIONS RWCU SUBSYSTEM
RT-05 INSIDE CONTAINMENT
(SHEET 2 OF 3)

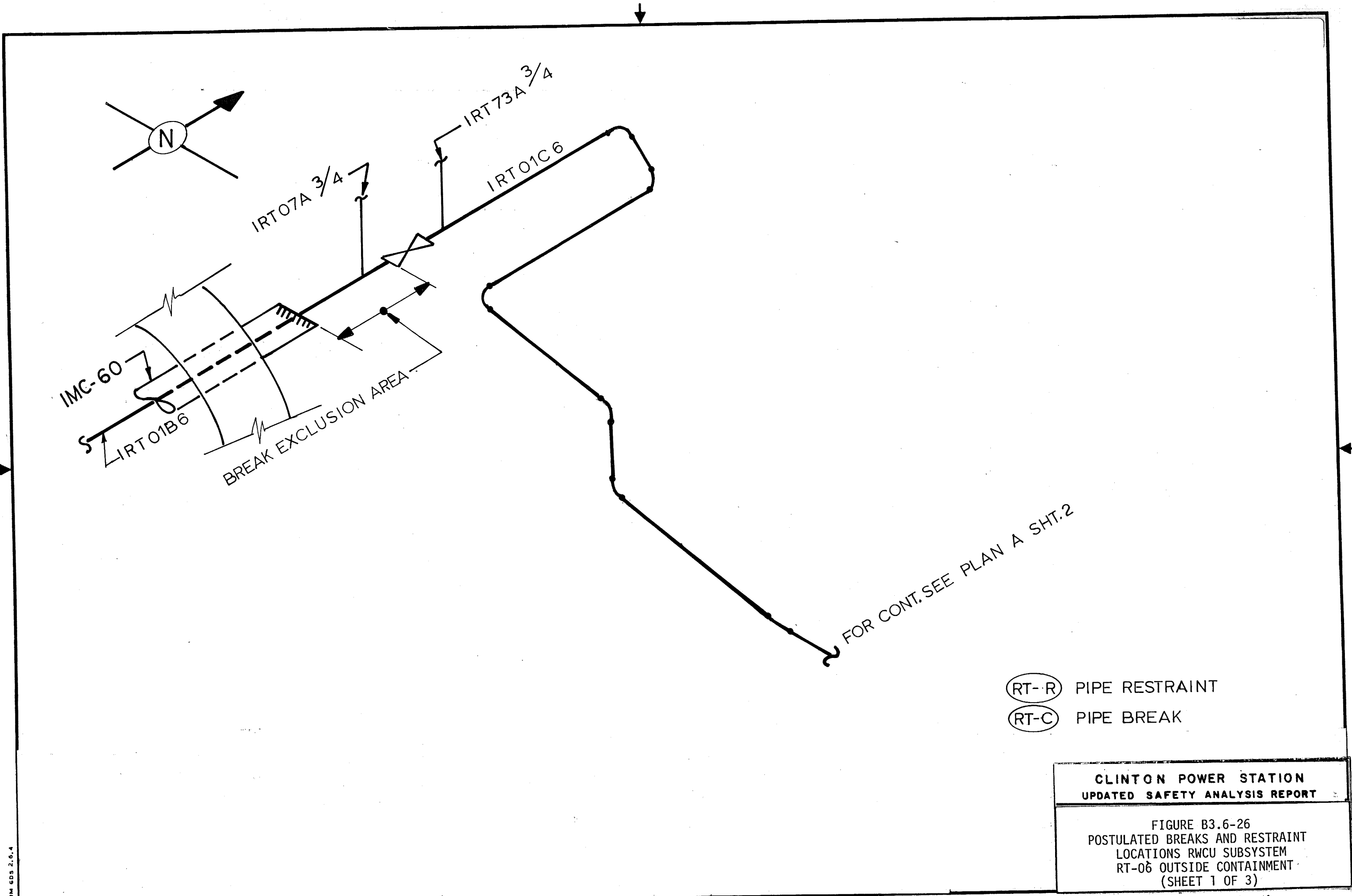


RT-R PIPE RESTRAINT

RT-C PIPE BREAK

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

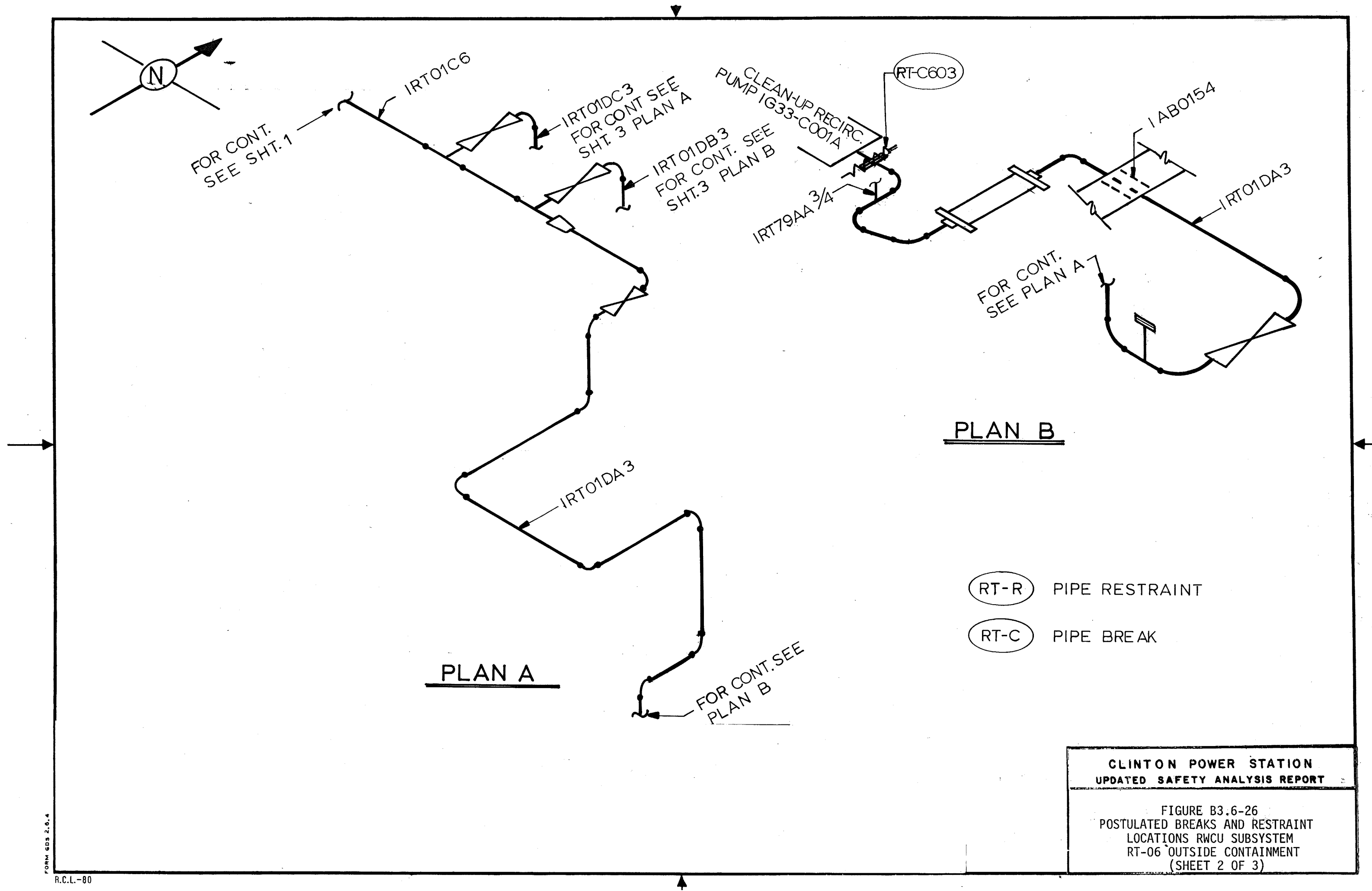
FIGURE B3.6-25
POSTULATED BREAKS AND RESTRAINT
LOCATIONS RCU SUBSYSTEM
RT-05 INSIDE CONTAINMENT
(SHEET 3 OF 3)

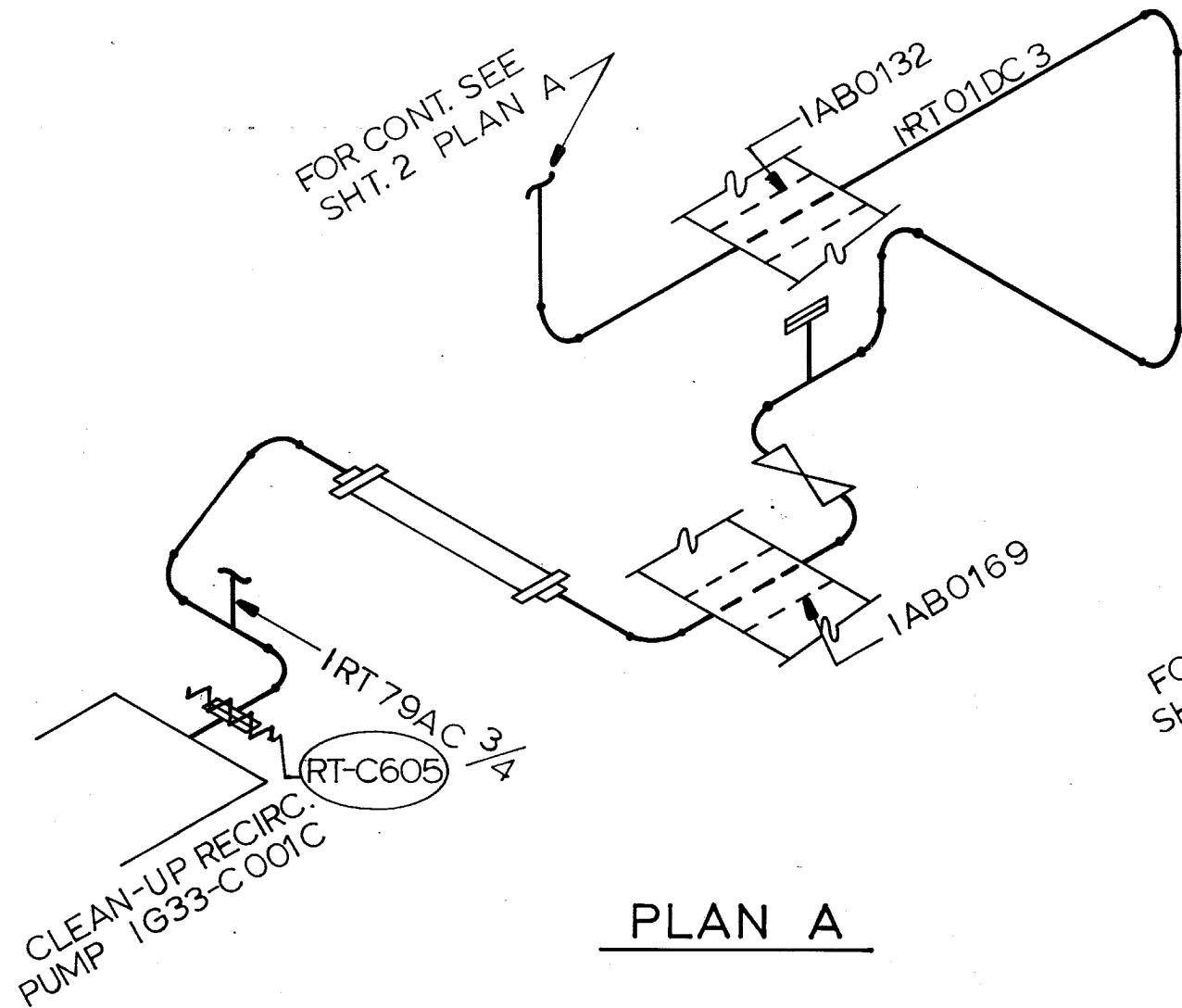


- (RT-R) PIPE RESTRAINT
- (RT-C) PIPE BREAK

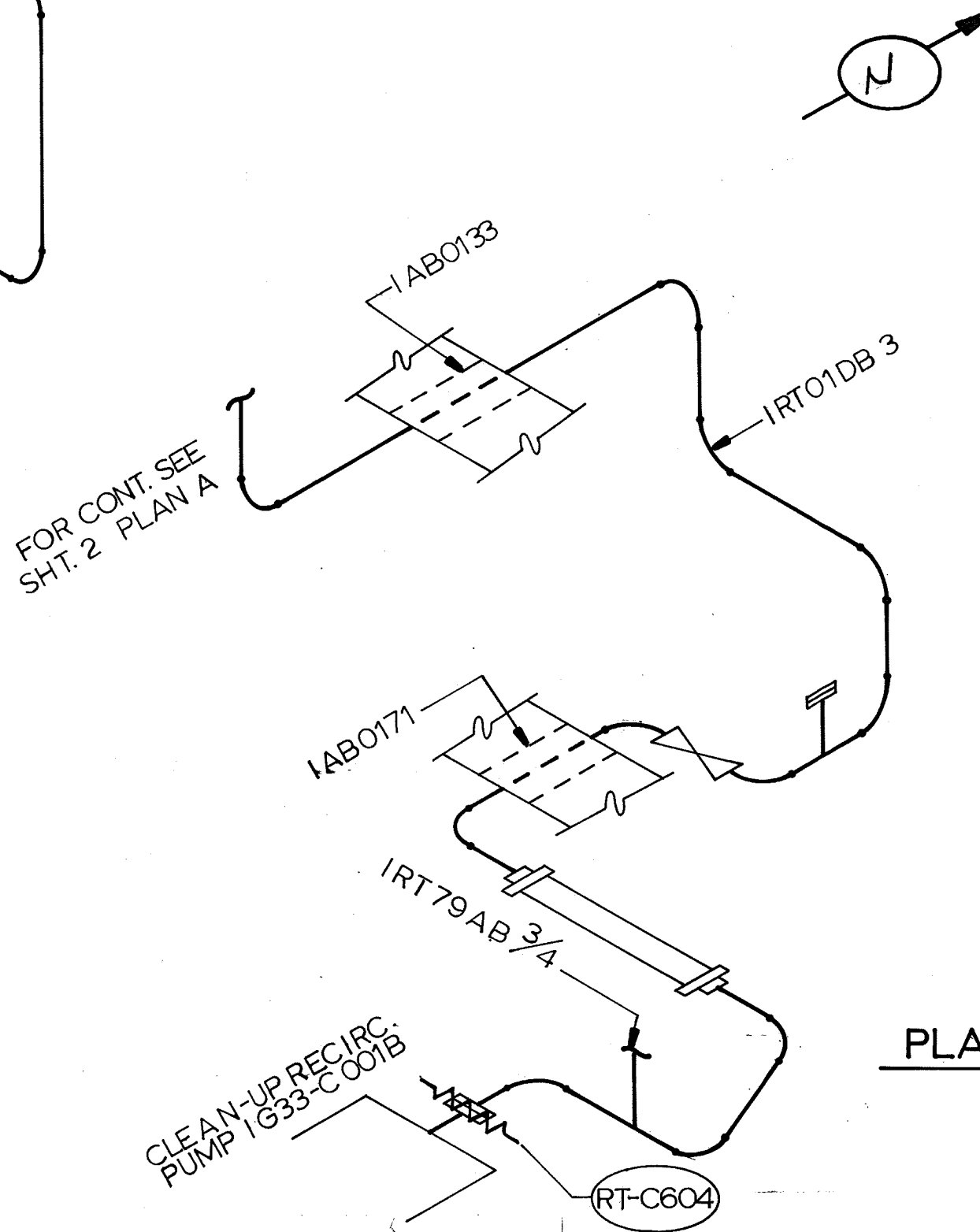
CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE B3.6-26
POSTULATED BREAKS AND RESTRAINT
LOCATIONS RWCU SUBSYSTEM
RT-06 OUTSIDE CONTAINMENT
(SHEET 1 OF 3)



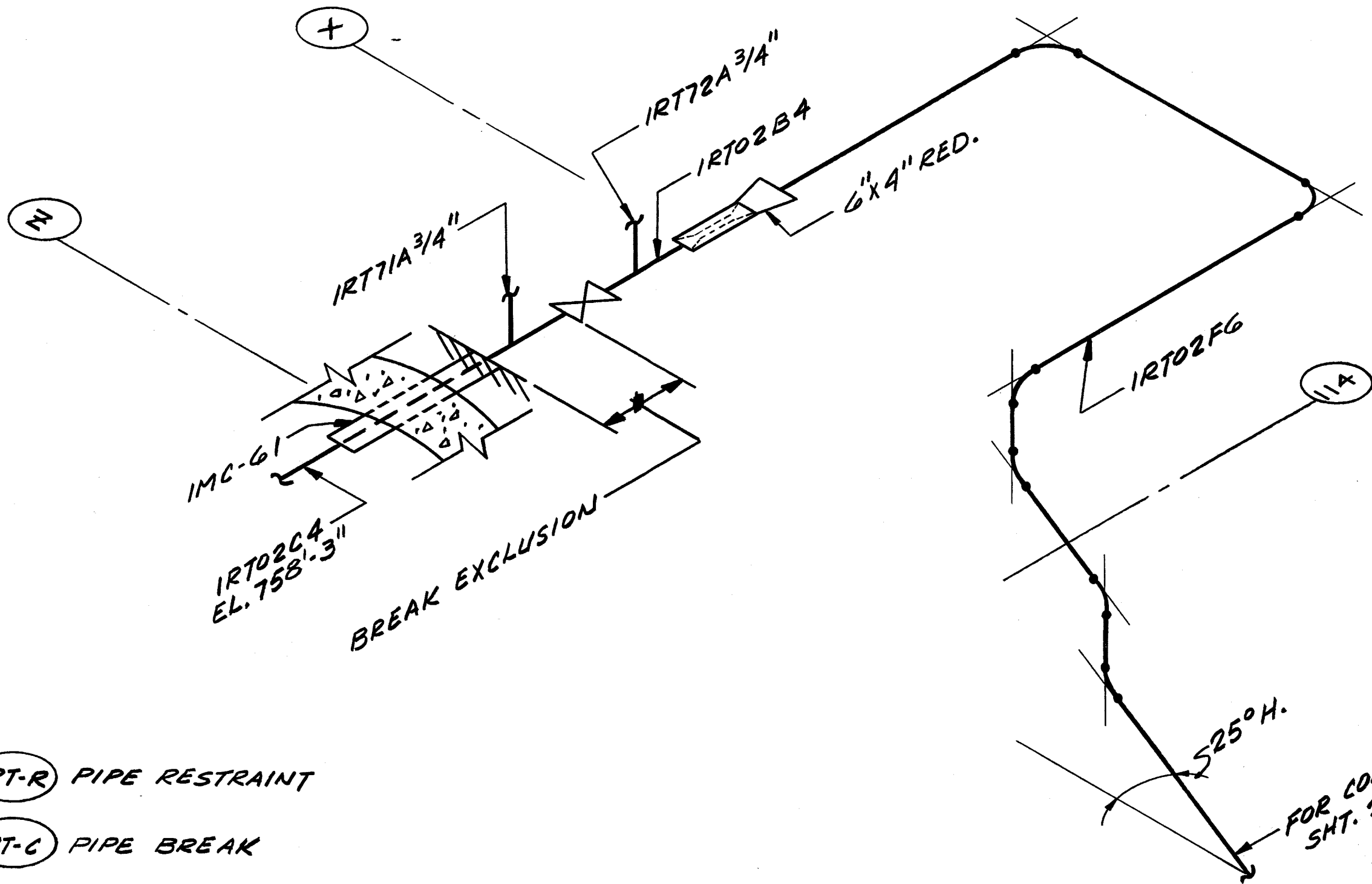


RT-R PIPE RESTRAINT
RT-C PIPE BREAK



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)

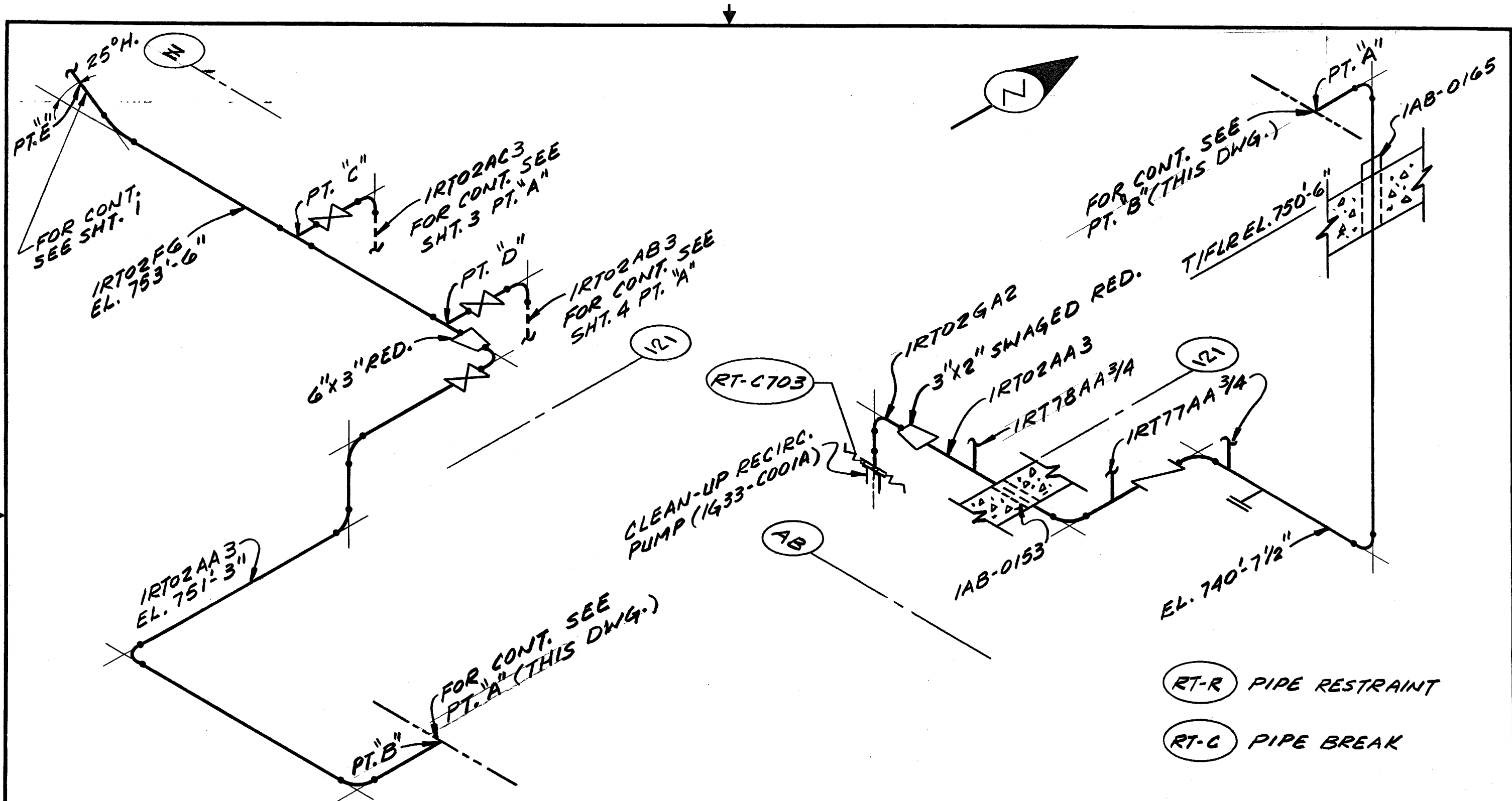


(RT-R) PIPE RESTRAINT

(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"

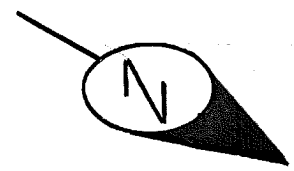
PT. "A"

(IRT02F-6)

W.P. EL. 750.750'

IAB-0176

T/FLR EL. 750'-6"



IAB-0131

W.P. EL. 740.625'

3"x2" SWG. RED.

(IRT02GC 2)

RT-C705

W.P. EL. 739.916'

IRT18CA 3/4

(IRT02AC-3)

(117)

W.P. EL. 744.5'

IAB-0168

(Z)

(RT-R) PIPE RESTRAINT

(RT-C) PIPE BREAK

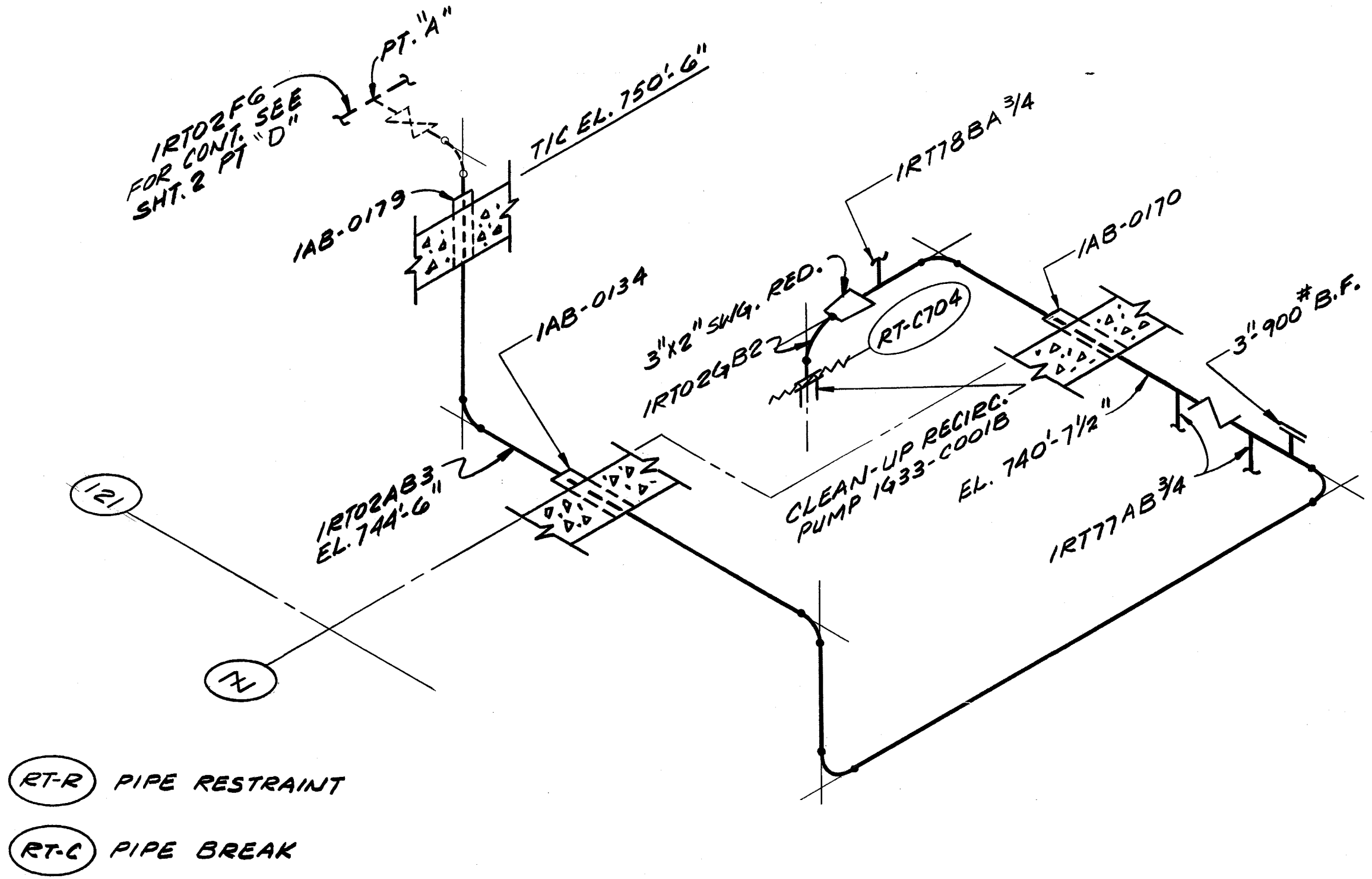
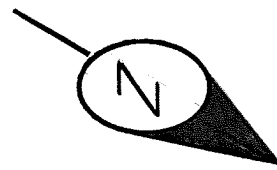
IRT11AC 3/4

3"-90# B.F.

W.P. EL. 740.625'

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

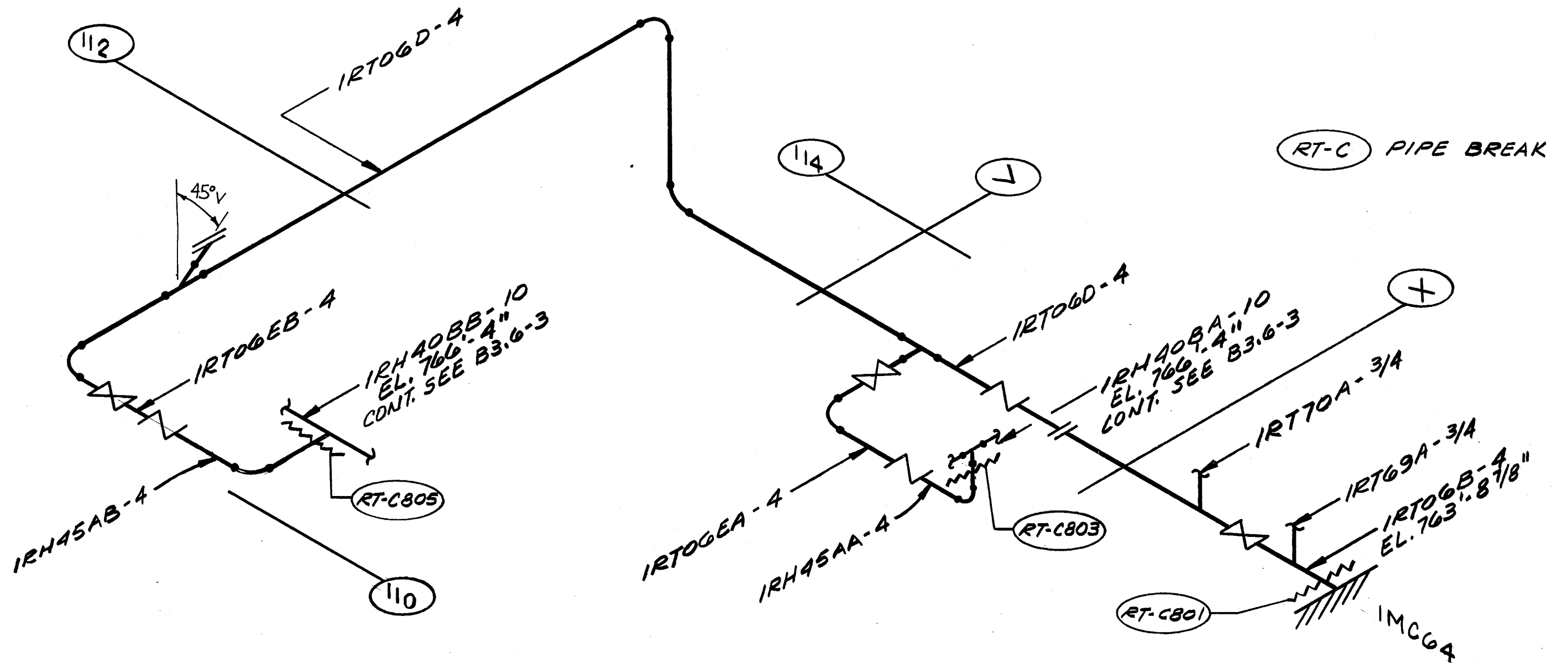
FIGURE B3.6-27
POSTULATED BREAKS AND RESTRAINT
LOCATIONS RWCU SUBSYSTEM
RT-07 OUTSIDE CINTAINMENT
(SHEET 3 OF 4)



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

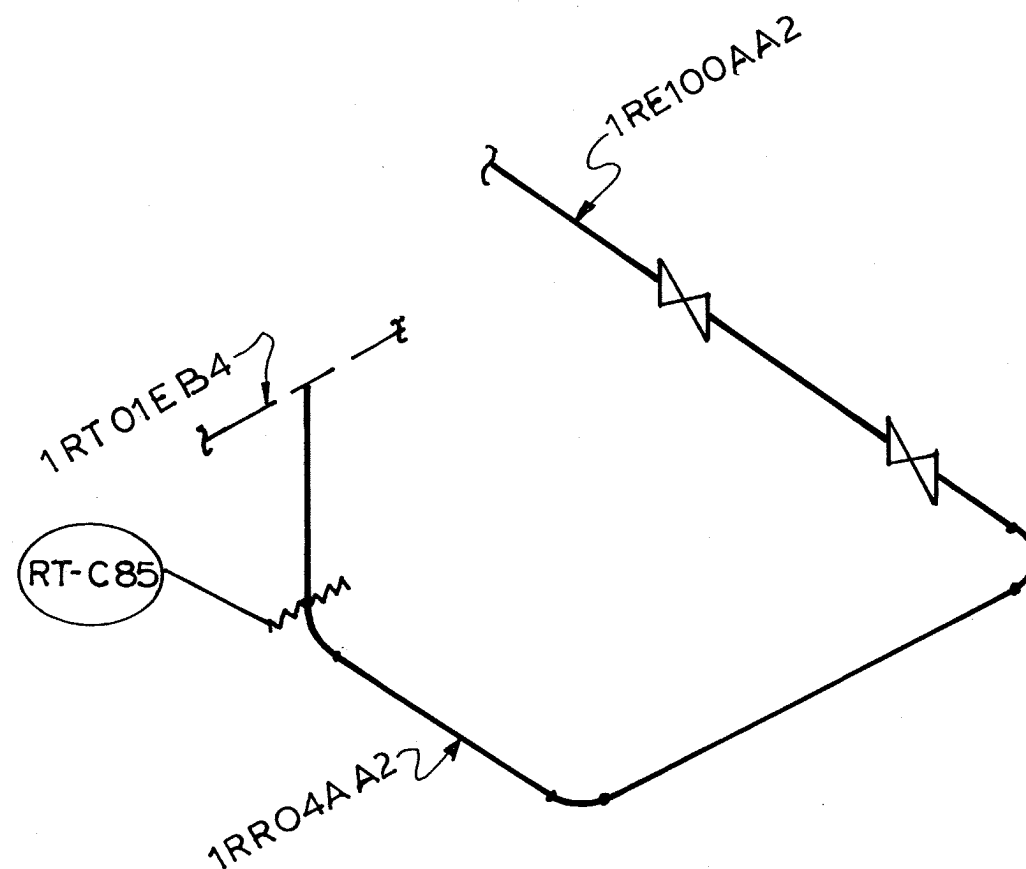
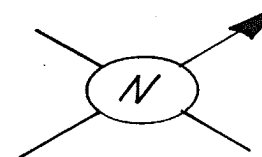
FIGURE B3.6-27
POSTULATED BREAKS AND RESTRAINT
LOCATIONS RWCU SUBSYSTEM
RT-07-OUTSIDE CONTAINMENT
(SHEET 4 OF 4)

North



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

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

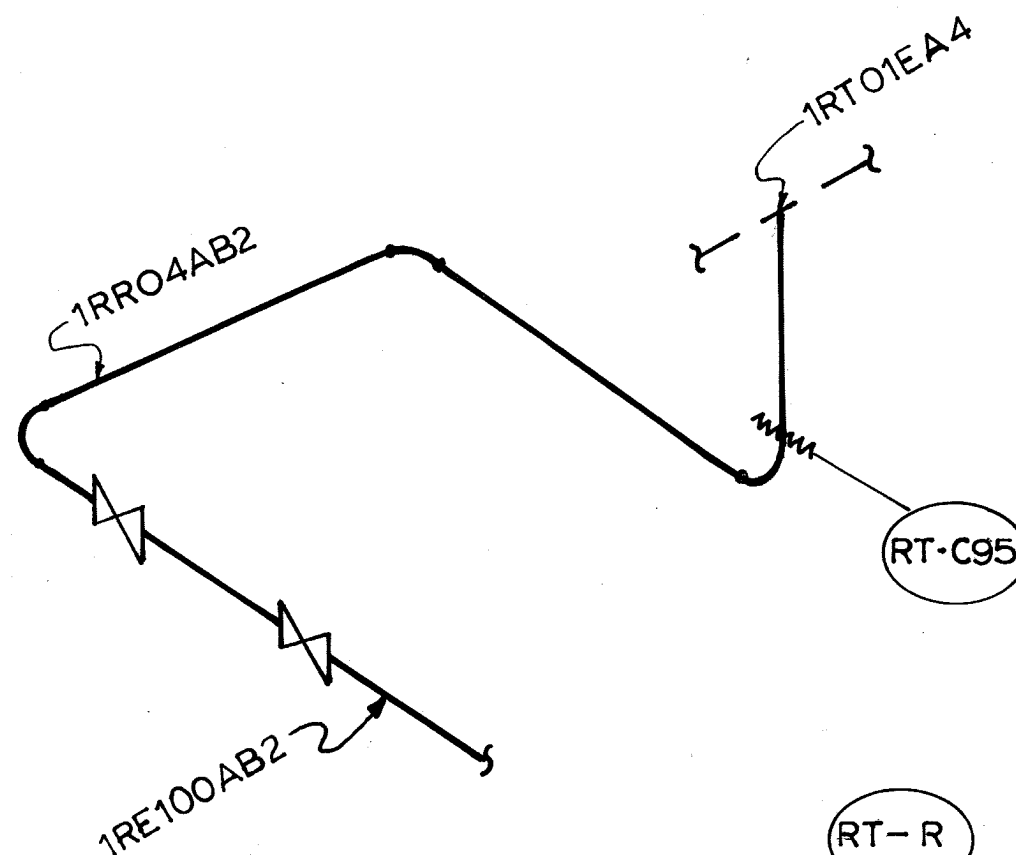
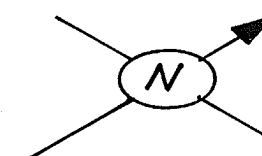


(RT-R) PIPE RESTRAINT

(RT-C) PIPE BREAK

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

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



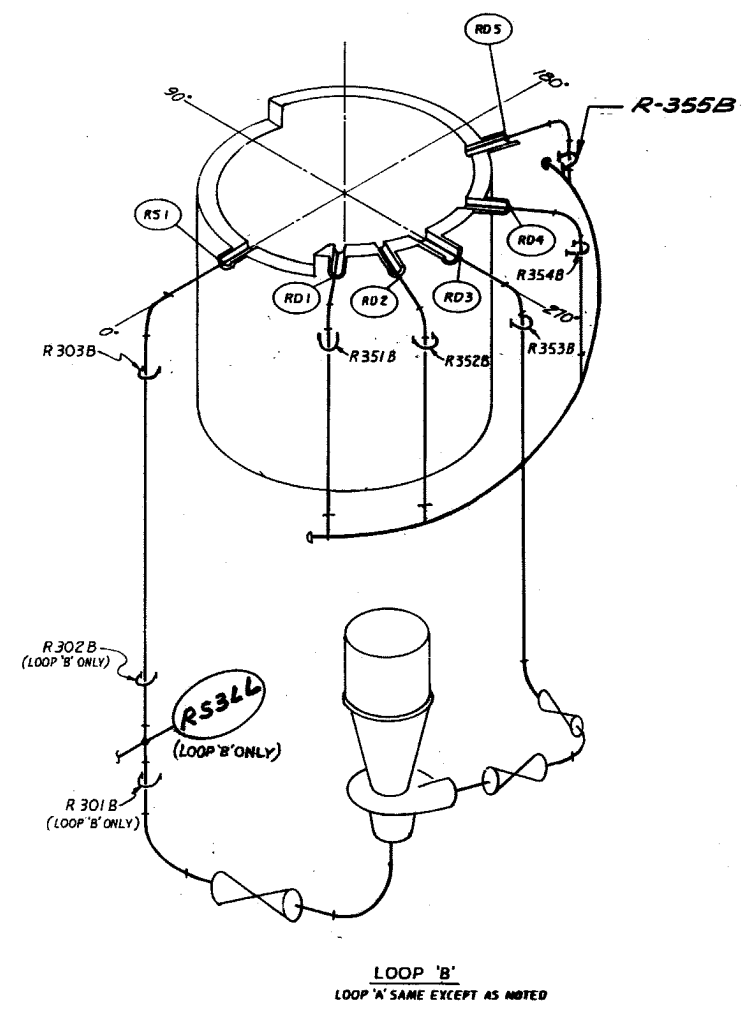
(RT-R) PIPE RESTRAINT

(RT-C) PIPE BREAK

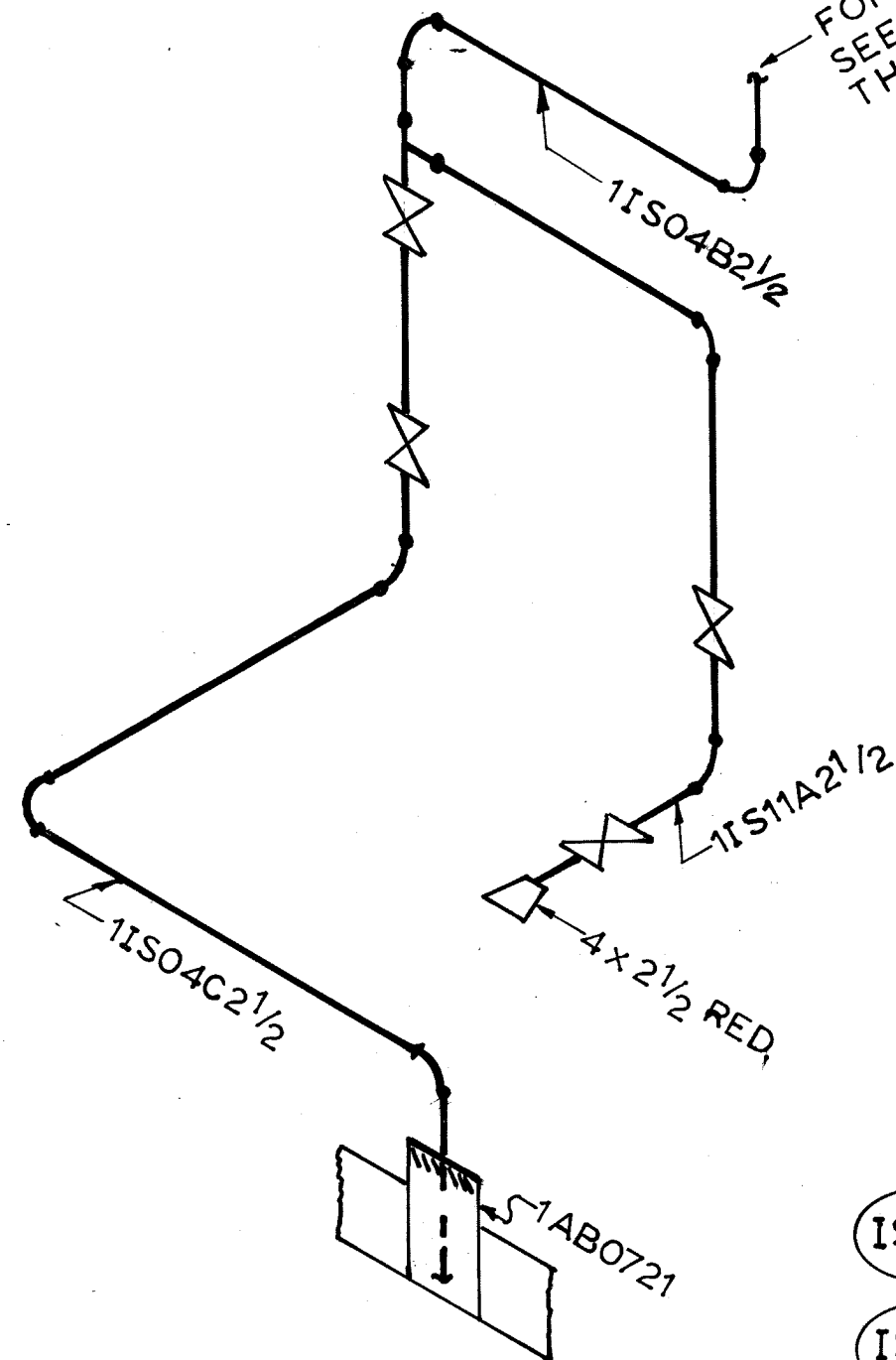
CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

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



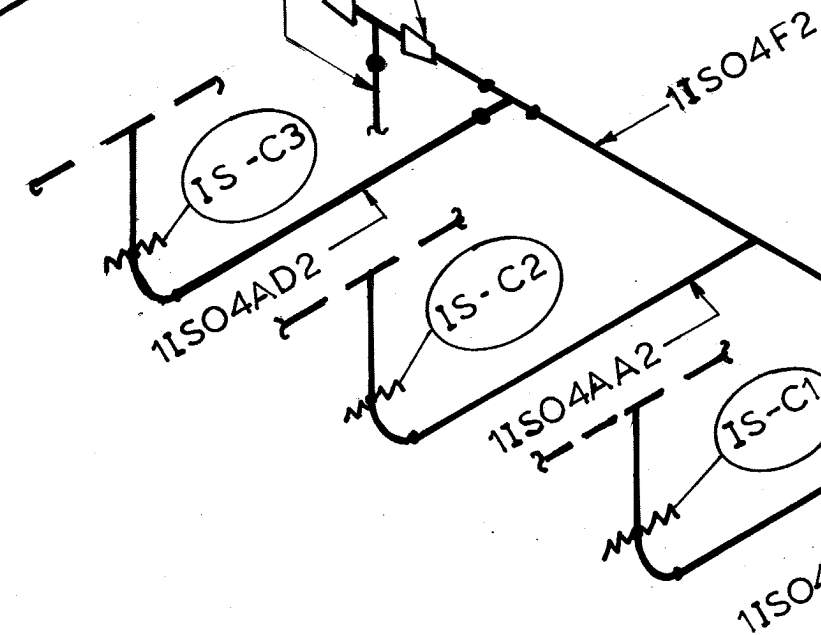
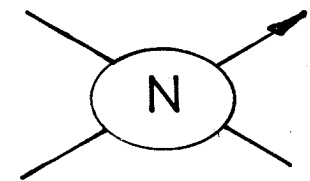
PLAN "A"

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

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

1ISO4AB2

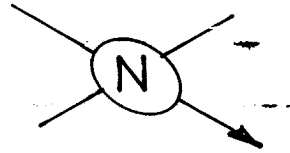
1ISO4B2 1/2 (FOR CONT. SEE PLAN "A" THIS SHEET.)
2 1/2" x 2 SWAGE NIPLE



PLAN "B"

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

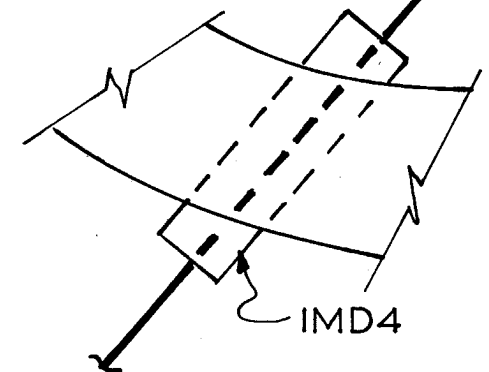
FIGURE B3.6-32
POSTULATED BREAKS AND RESTRAINT
LOCATIONS-MSIV-LEAKAGE CONTROL
SUBSYSTEM IS-03 OUTSIDE
CONTAINMENT



PLAN "A"

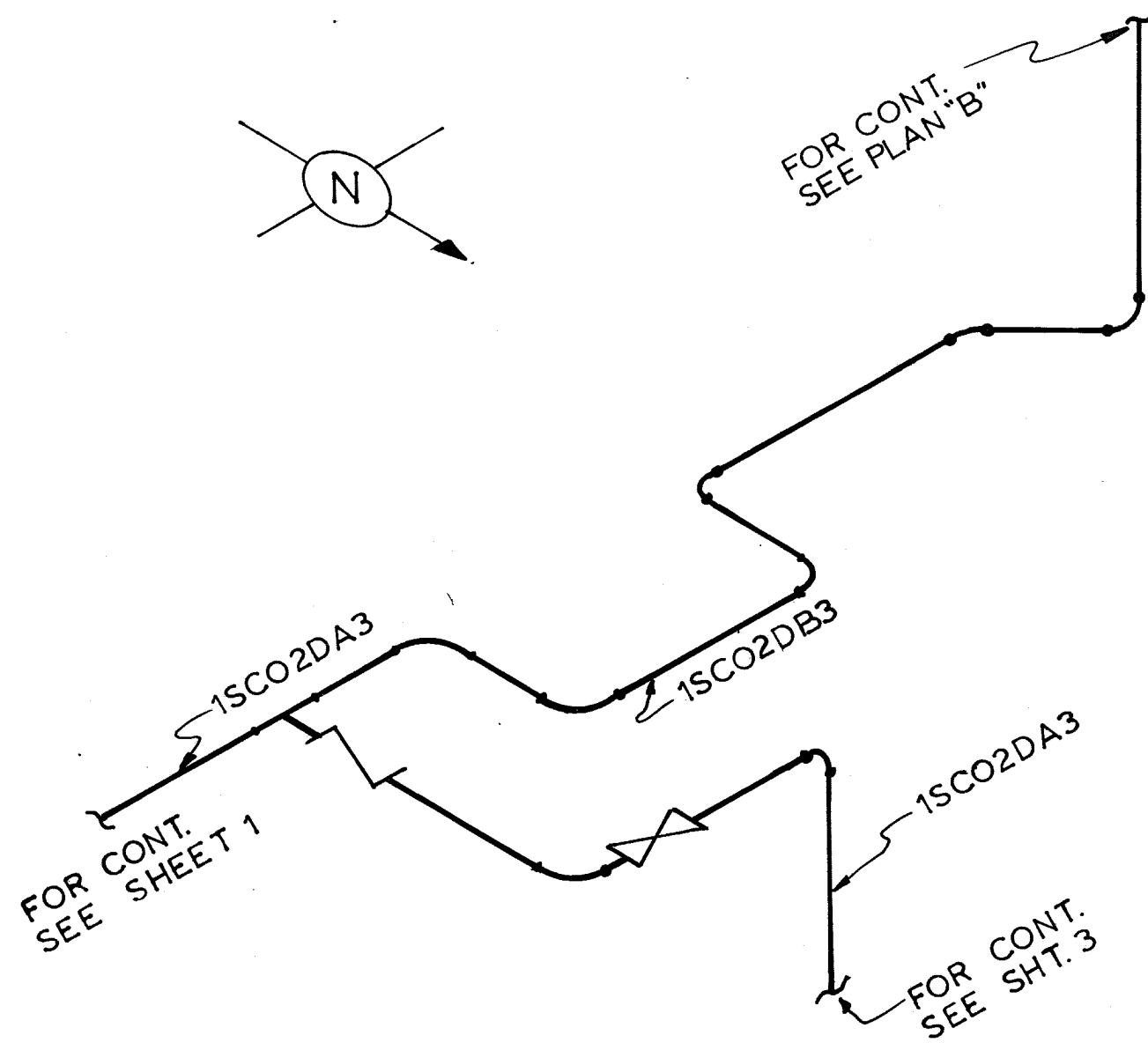
FOR CONT.
SEE SHEET 2

1SCO2DA3



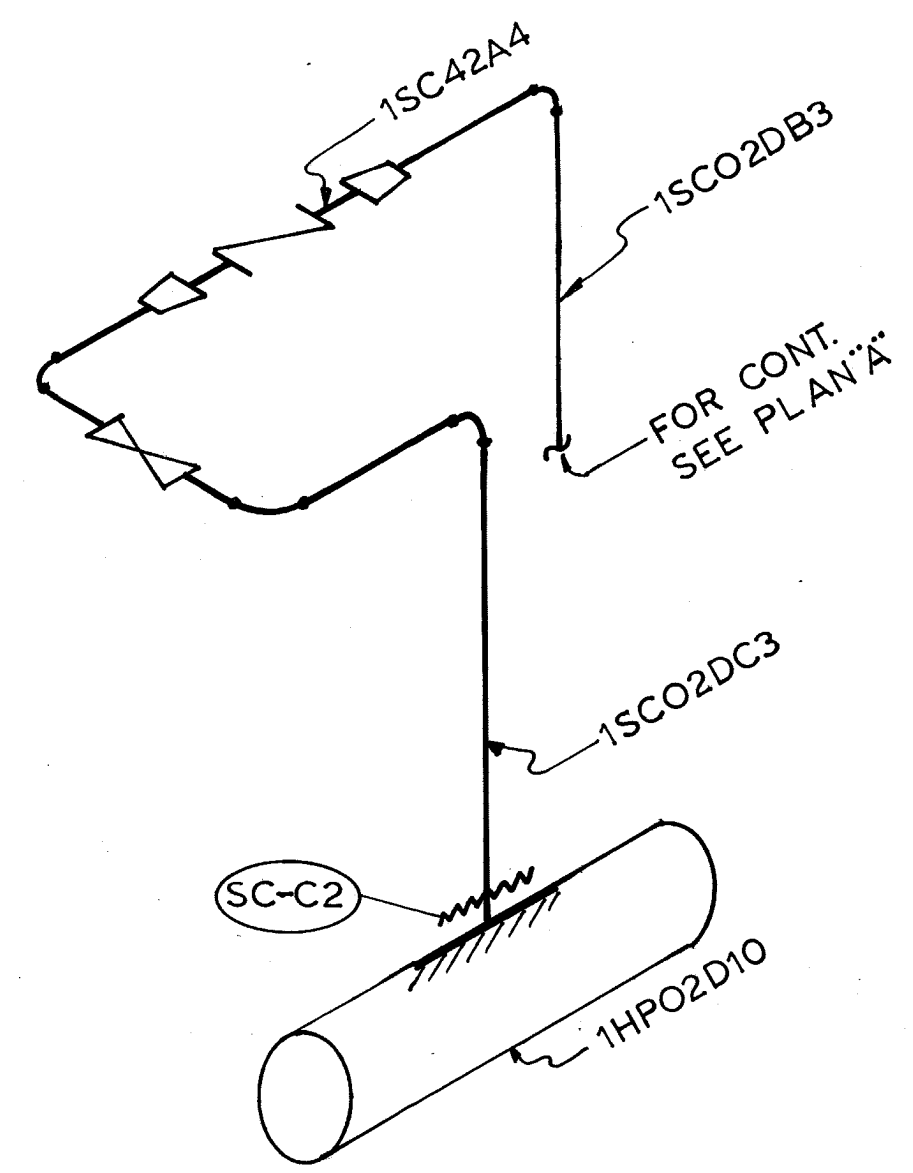
CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

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



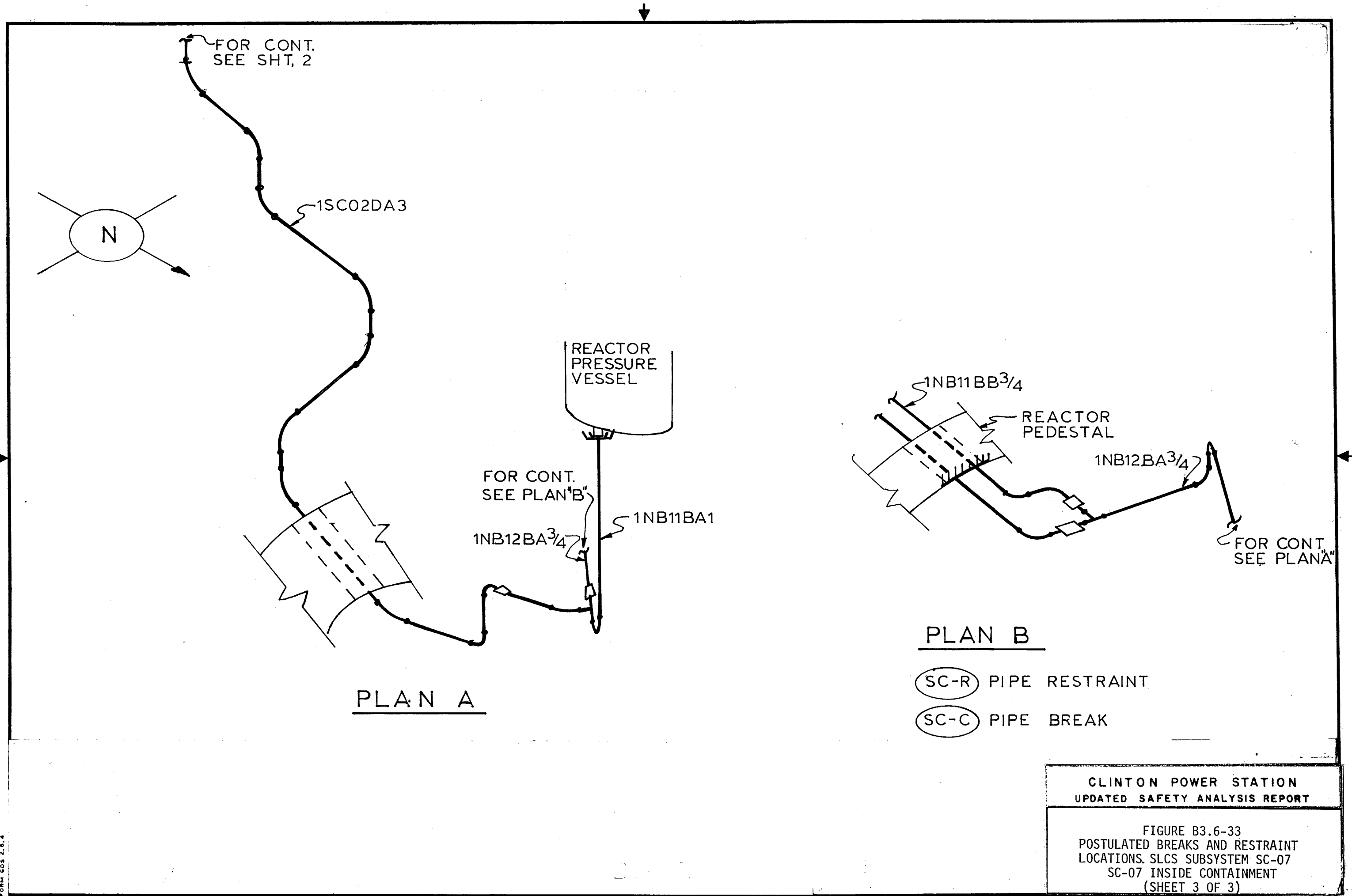
PLAN A

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



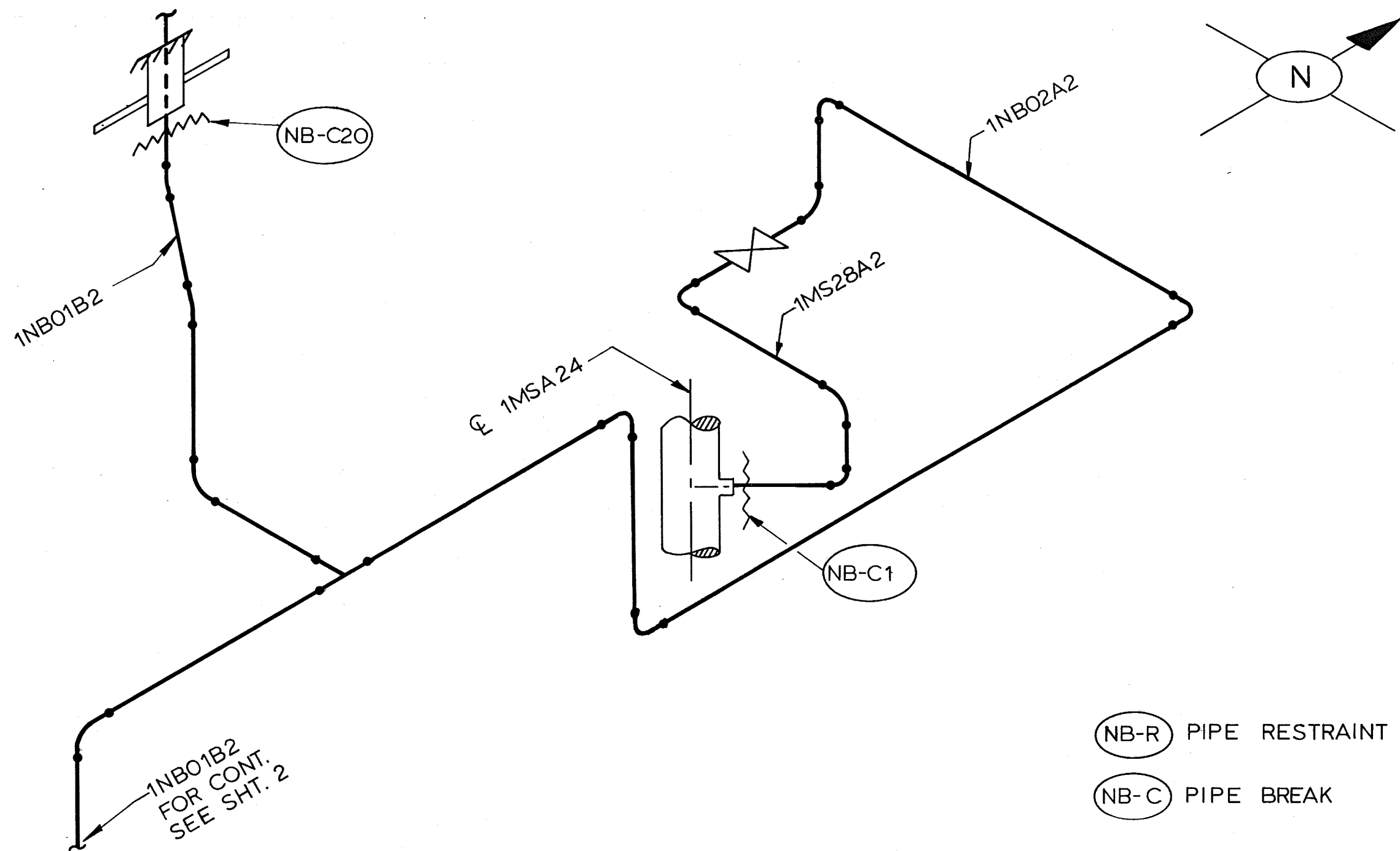
PLAN B

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



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

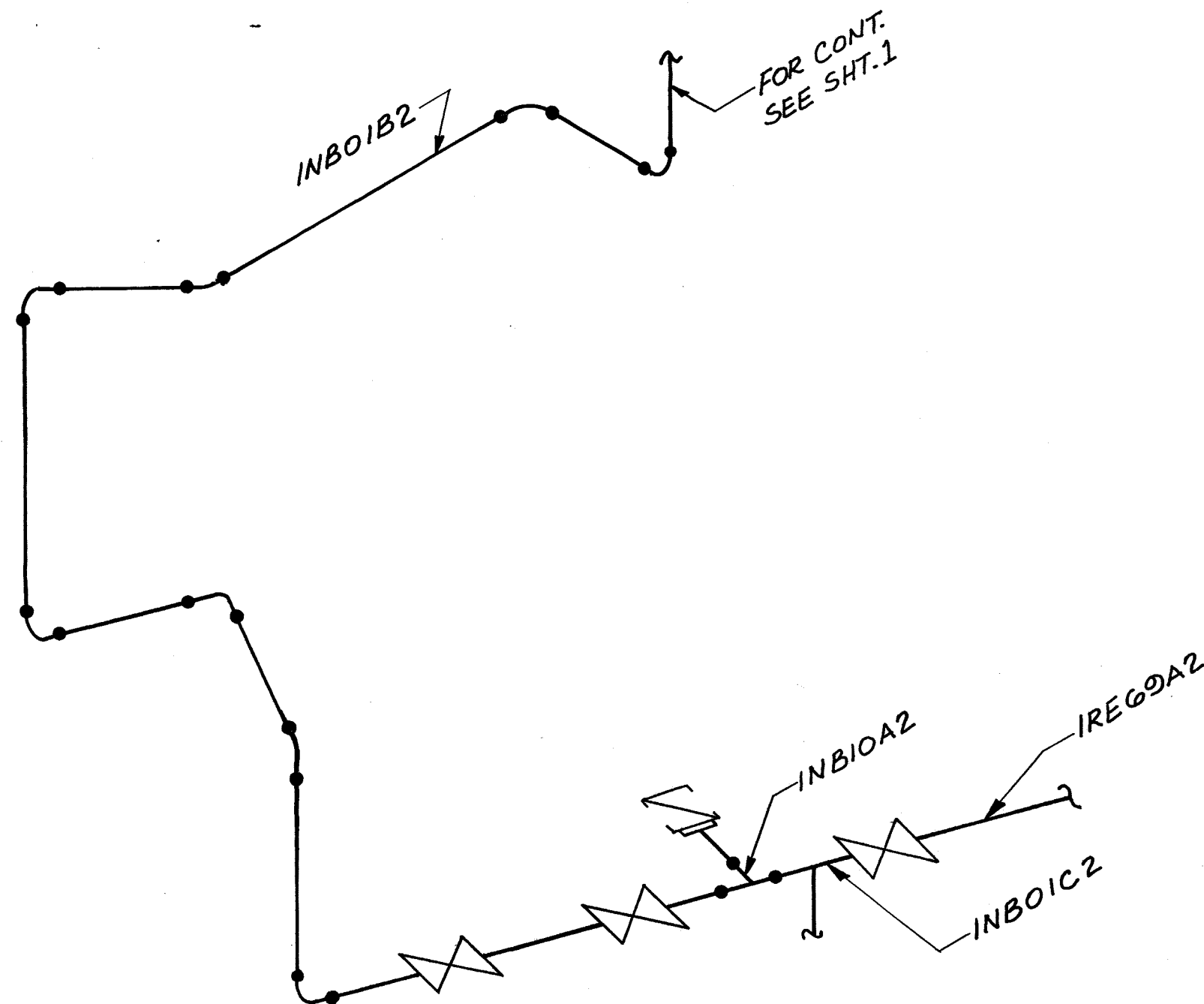
FIGURE B3.6-33
POSTULATED BREAKS AND RESTRAINT
LOCATIONS. SLCS SUBSYSTEM SC-07
SC-07 INSIDE CONTAINMENT
(SHEET 3 OF 3)



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)

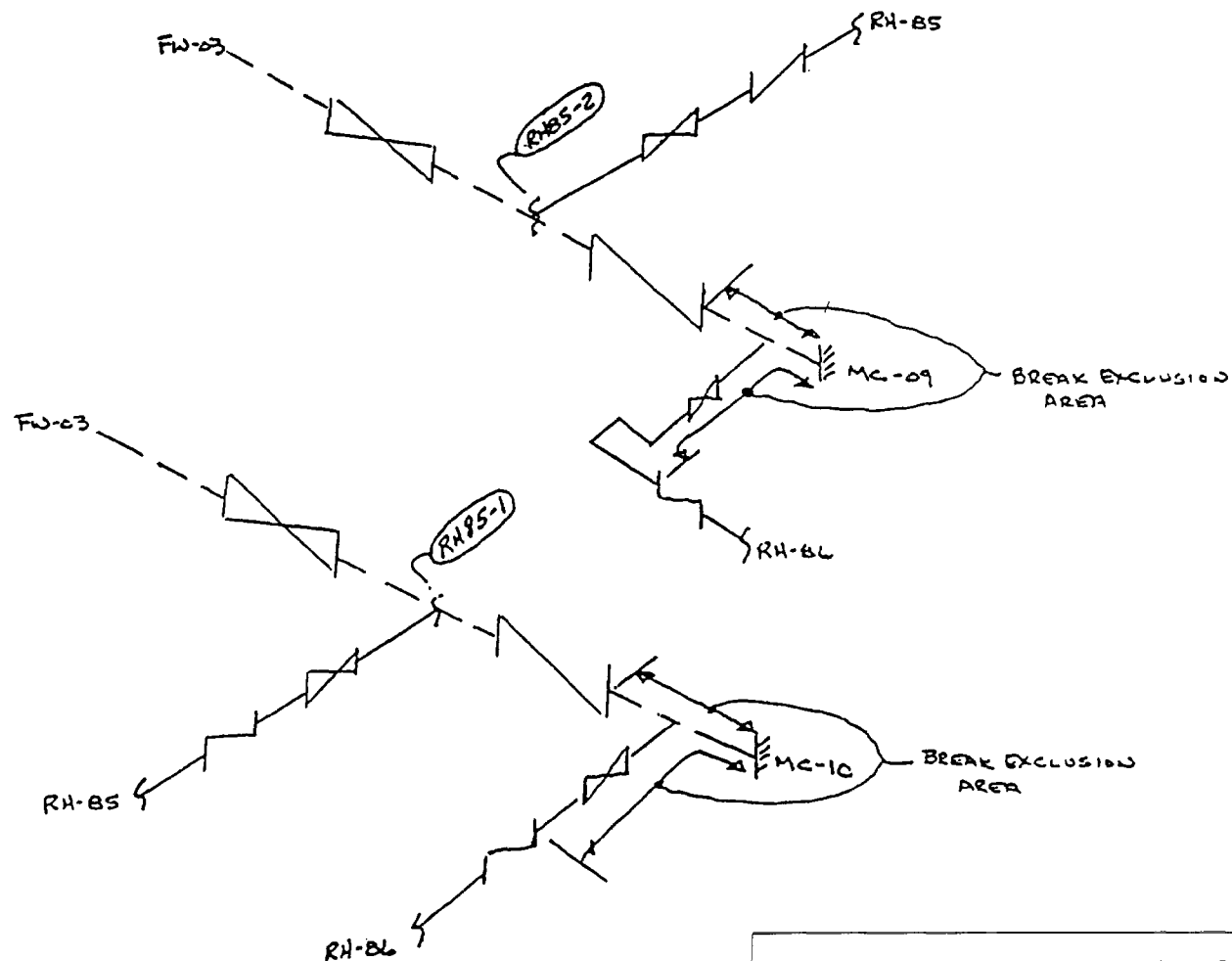
(NB-R) PIPE RESTRAINT
(NB-C) PIPE BREAK



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

CLINTON POWER STATION
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

CLINTON POWER STATION
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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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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

CLINTON POWER STATION
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

CLINTON POWER STATION
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

CLINTON POWER STATION
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

CLINTON POWER STATION
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

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

Security - Related Information Figure Withheld Under 10 CFR 2.390

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

Security - Related Information Figure Withheld Under 10 CFR 2.390

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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
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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

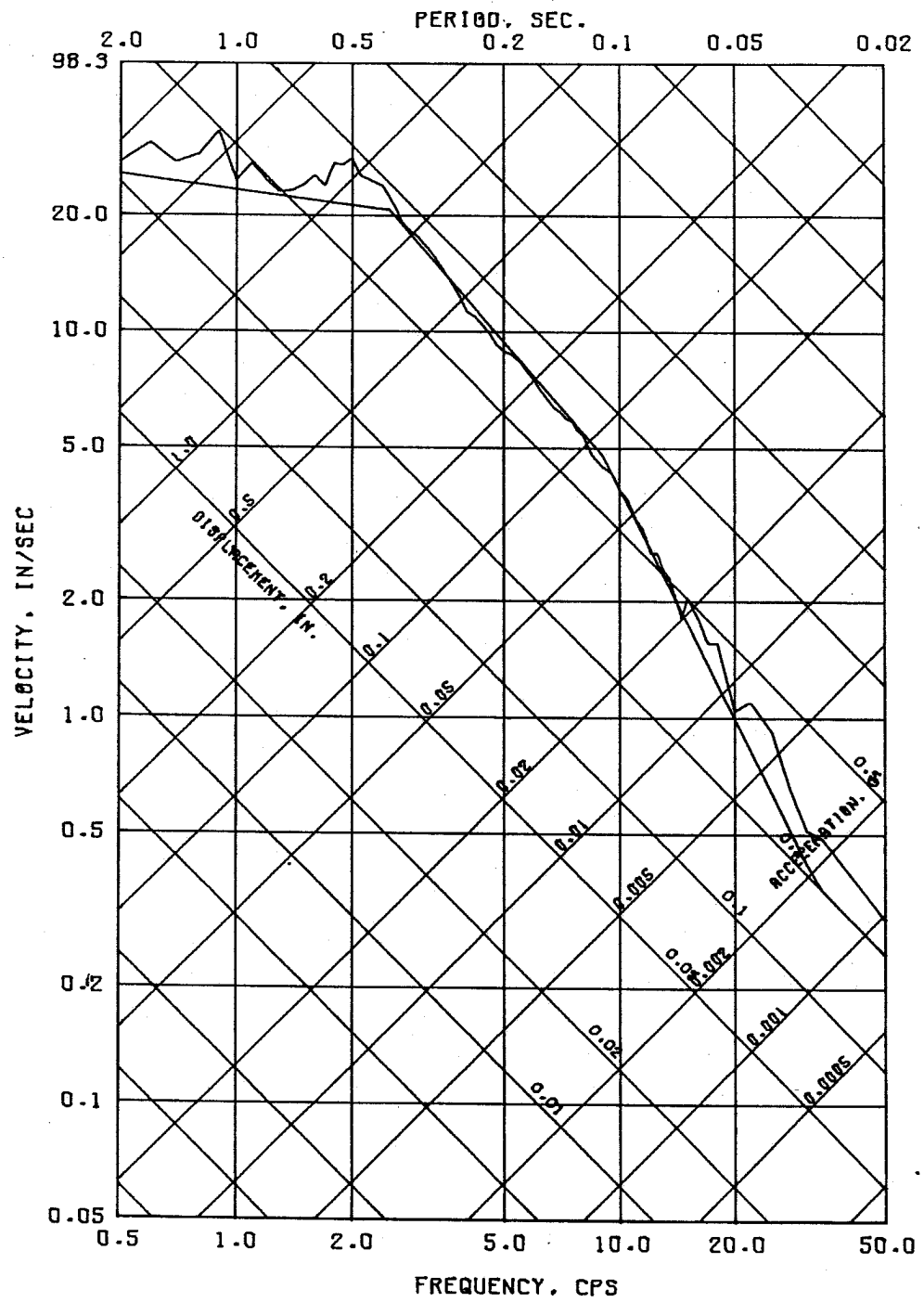
CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

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

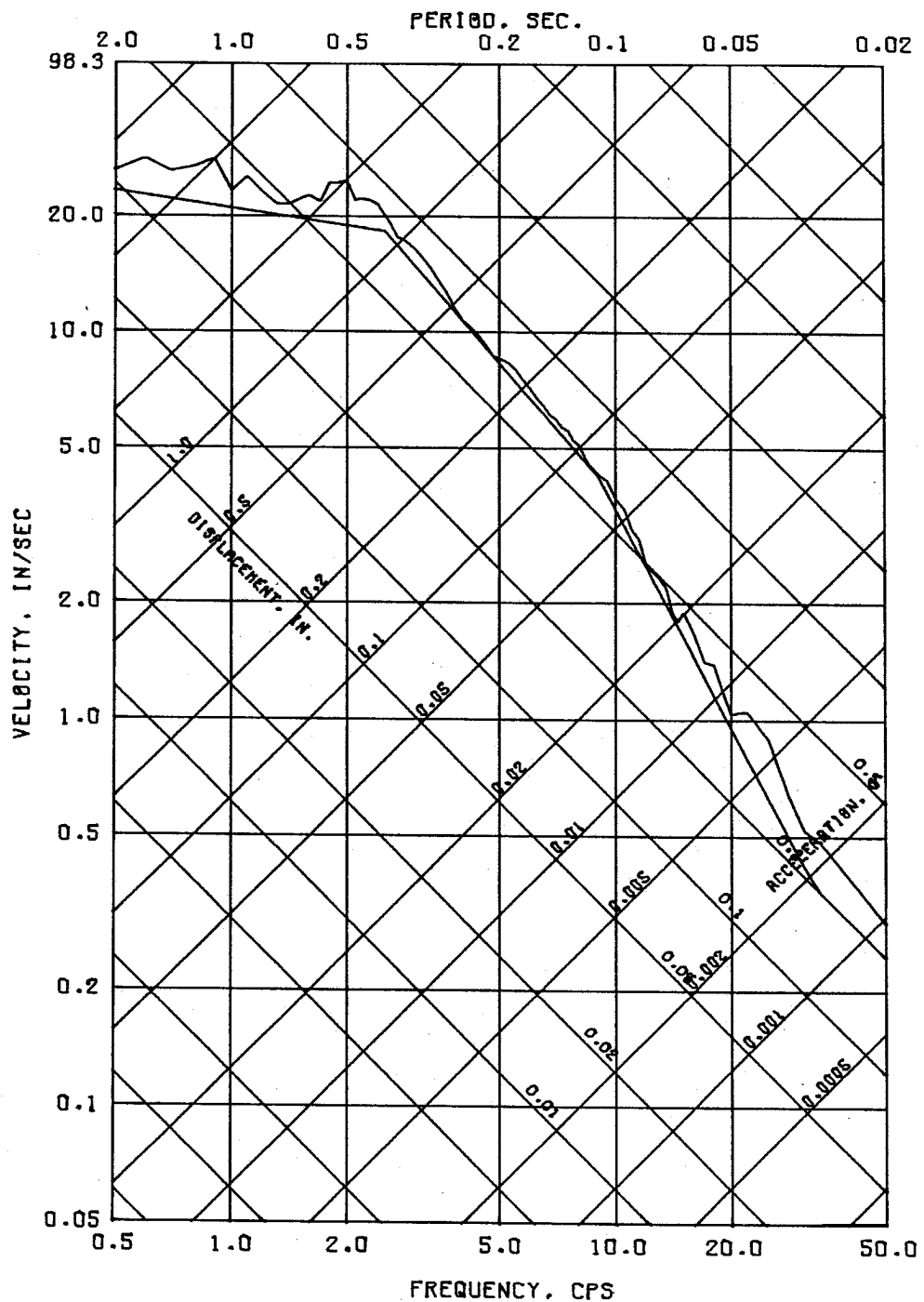


SLH MATCH WITH HORIZ R.G. SPEC 2 PER DAMP

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.7-1

HORIZONTAL RESPONSE SPECTRA
(2% DAMPING)

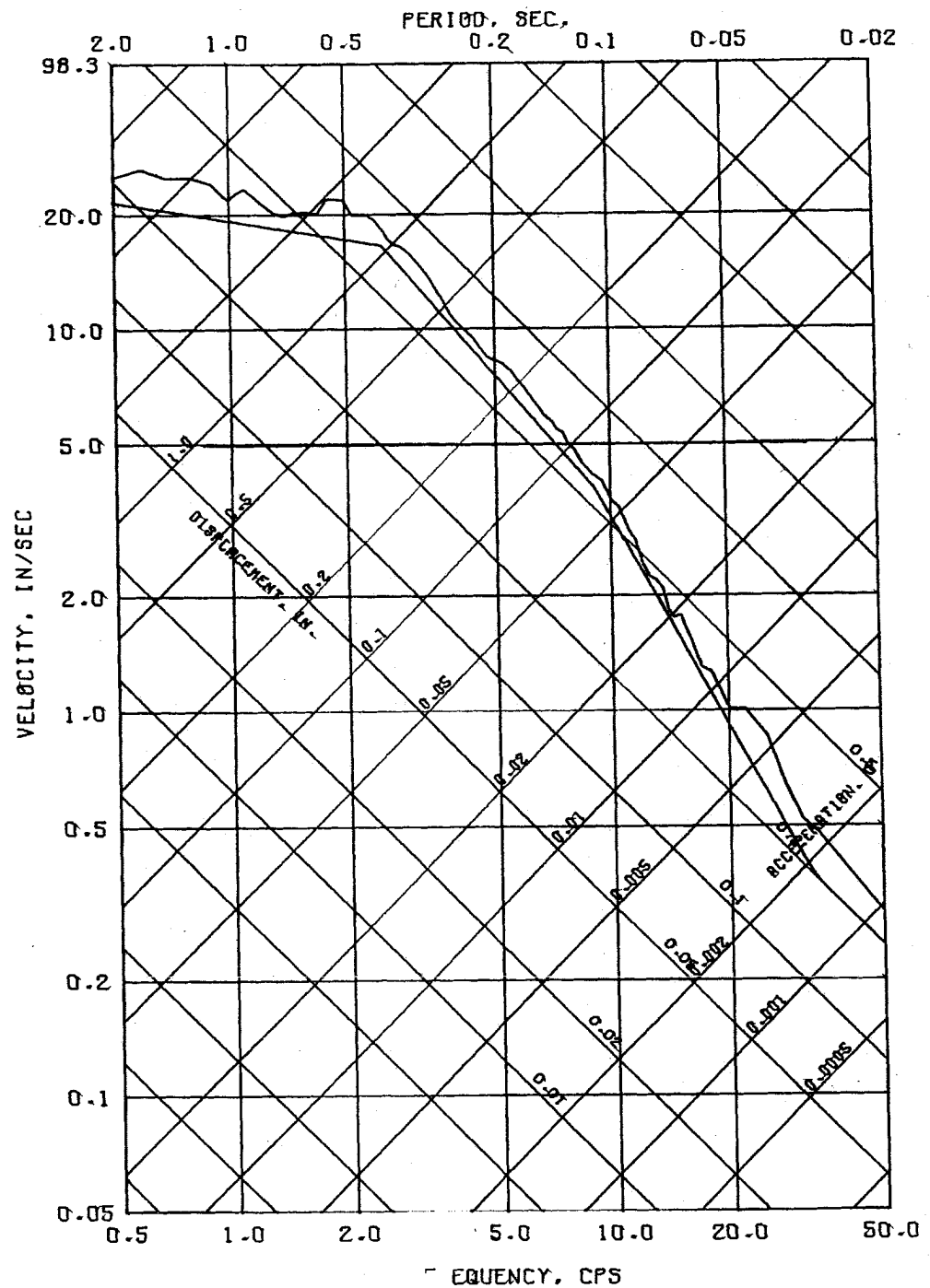


SLH MATCH WITH HORIZ R.G. SPEC 3 PER DAMP

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.7-2

HORIZONTAL RESPONSE SPECTRA
(3% DAMPING).

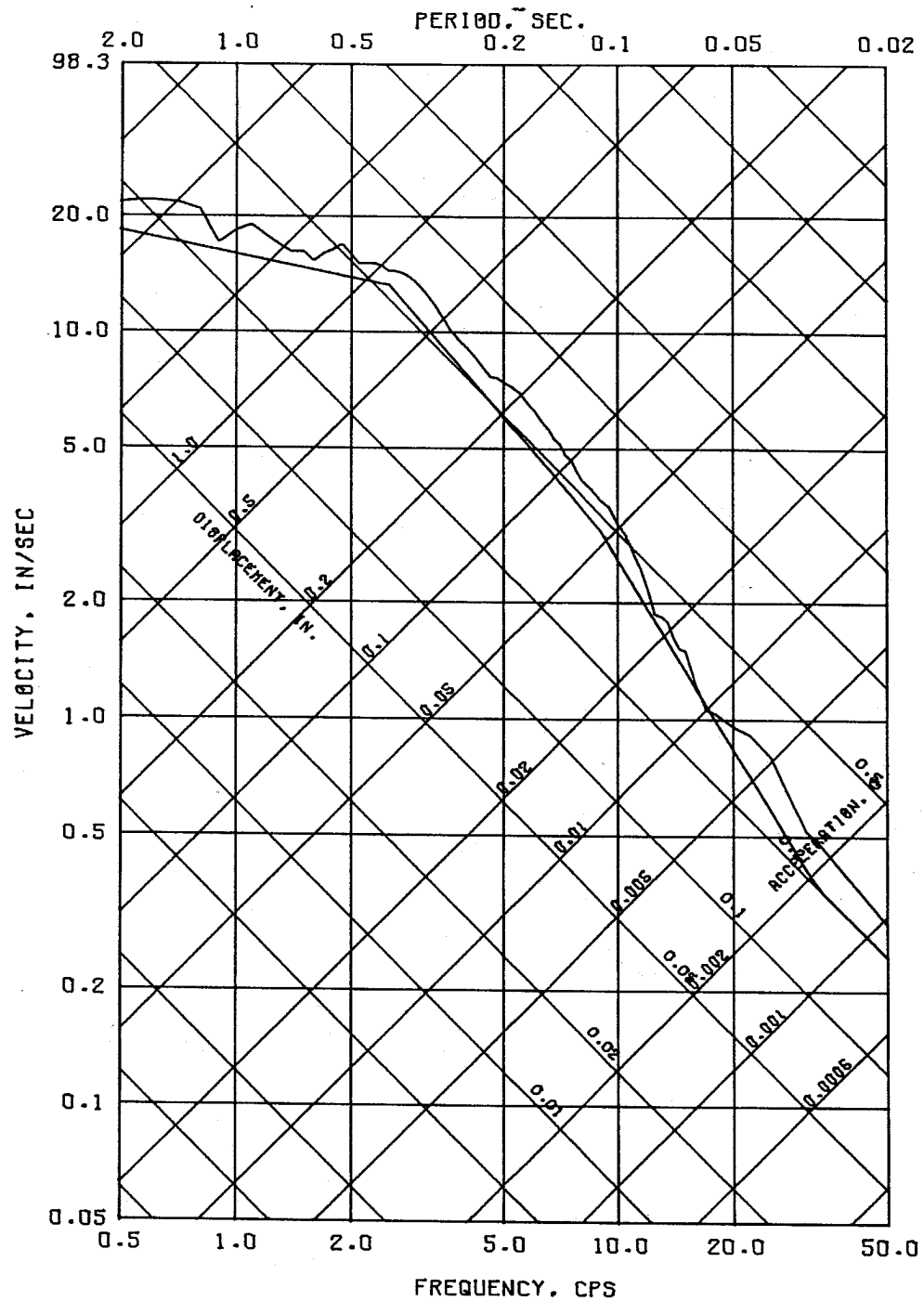


SLH MATCH WITH HORIZ R.G. SPEC 4 PER DAMP

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.7-3

HORIZONTAL RESPONSE SPECTRA
(4% DAMPING)

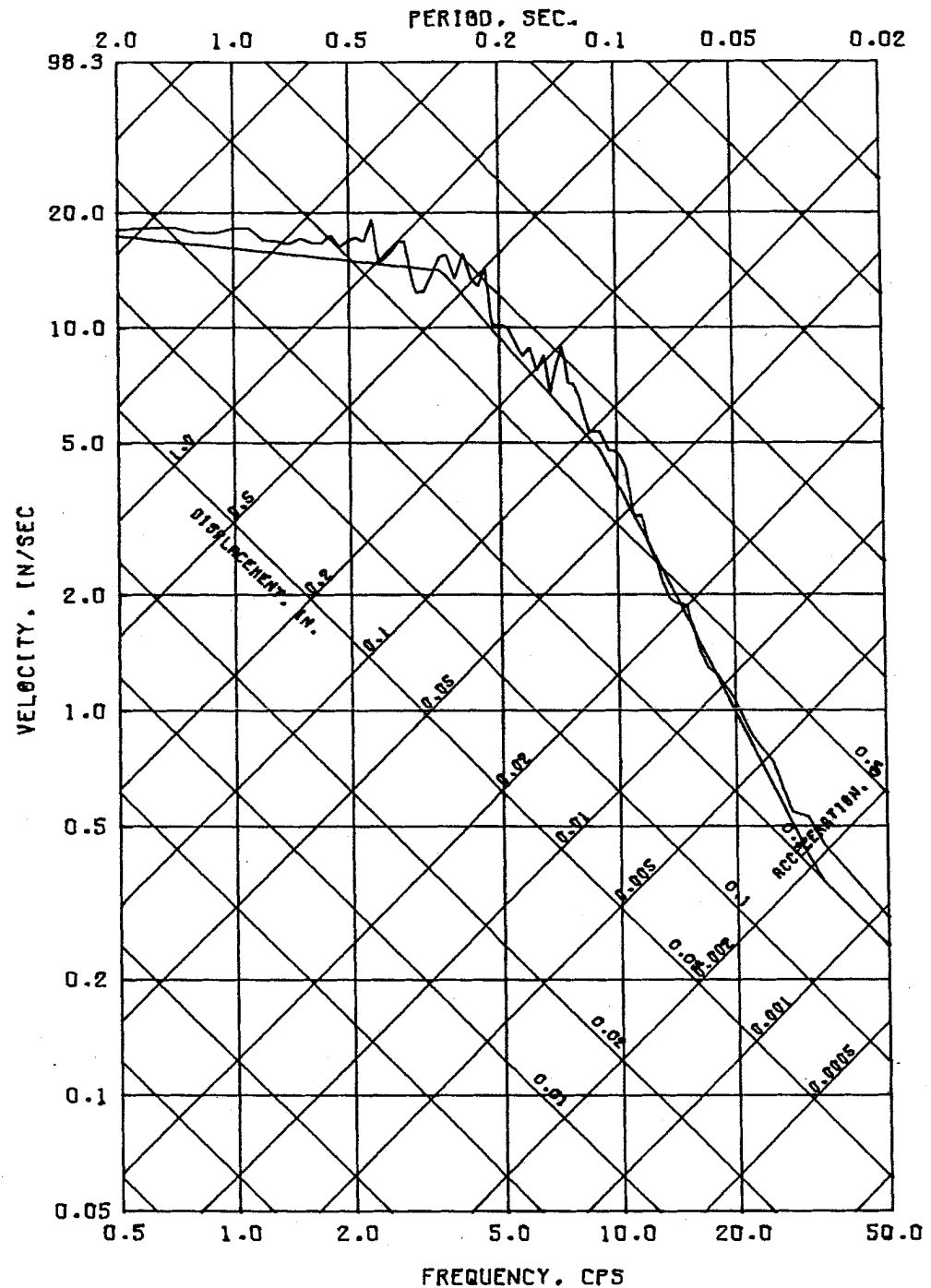


SLH MATCH WITH HORIZ R.G. SPEC 7 PER DAMP

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.7-5

HORIZONTAL RESPONSE SPECTRA
(7% DAMPING)

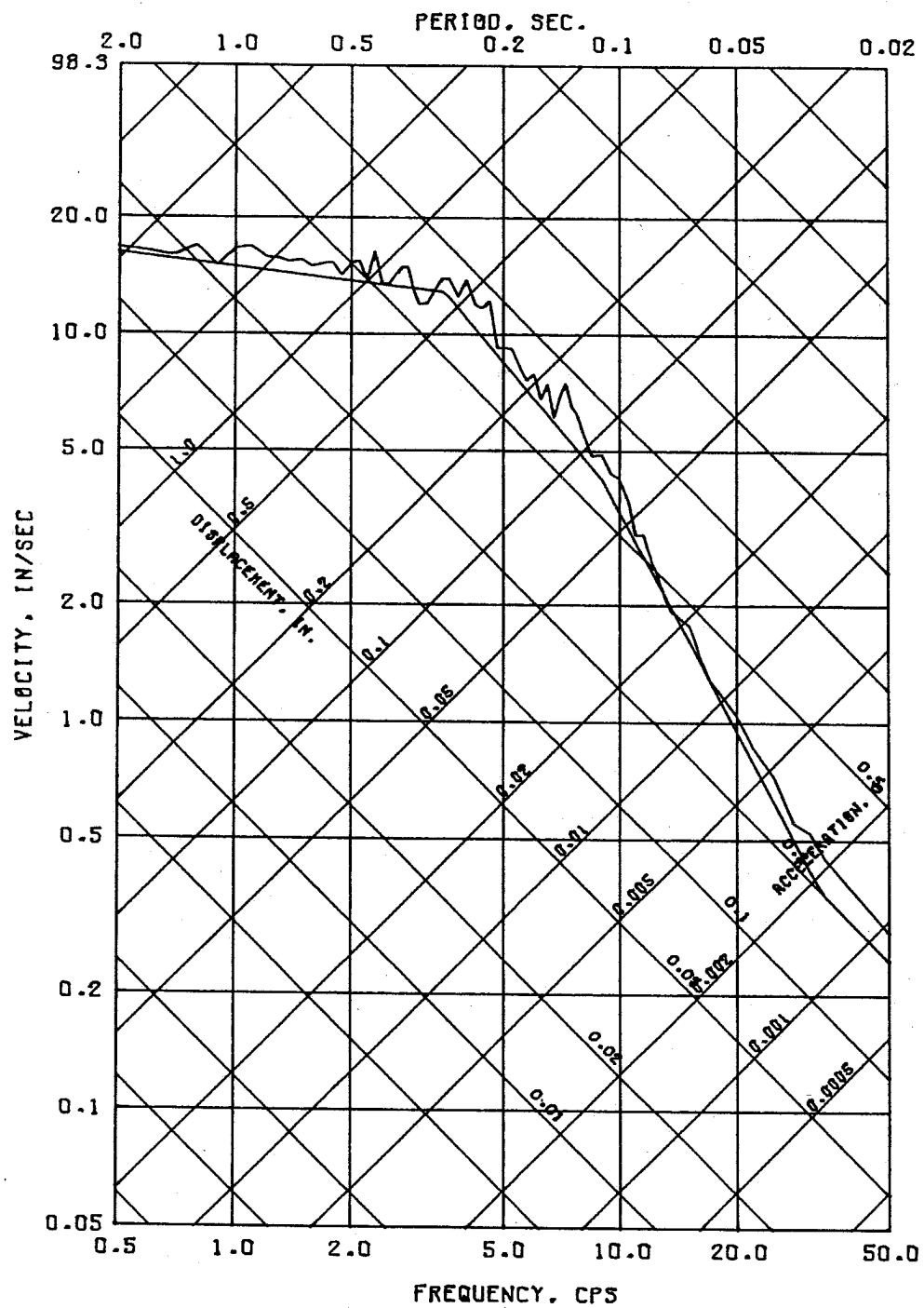


SLV MATCH WITH VERT R.G. SPEC 2 PER DAMP

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.7-6

VERTICAL RESPONSE SPECTRA
(2% DAMPING)

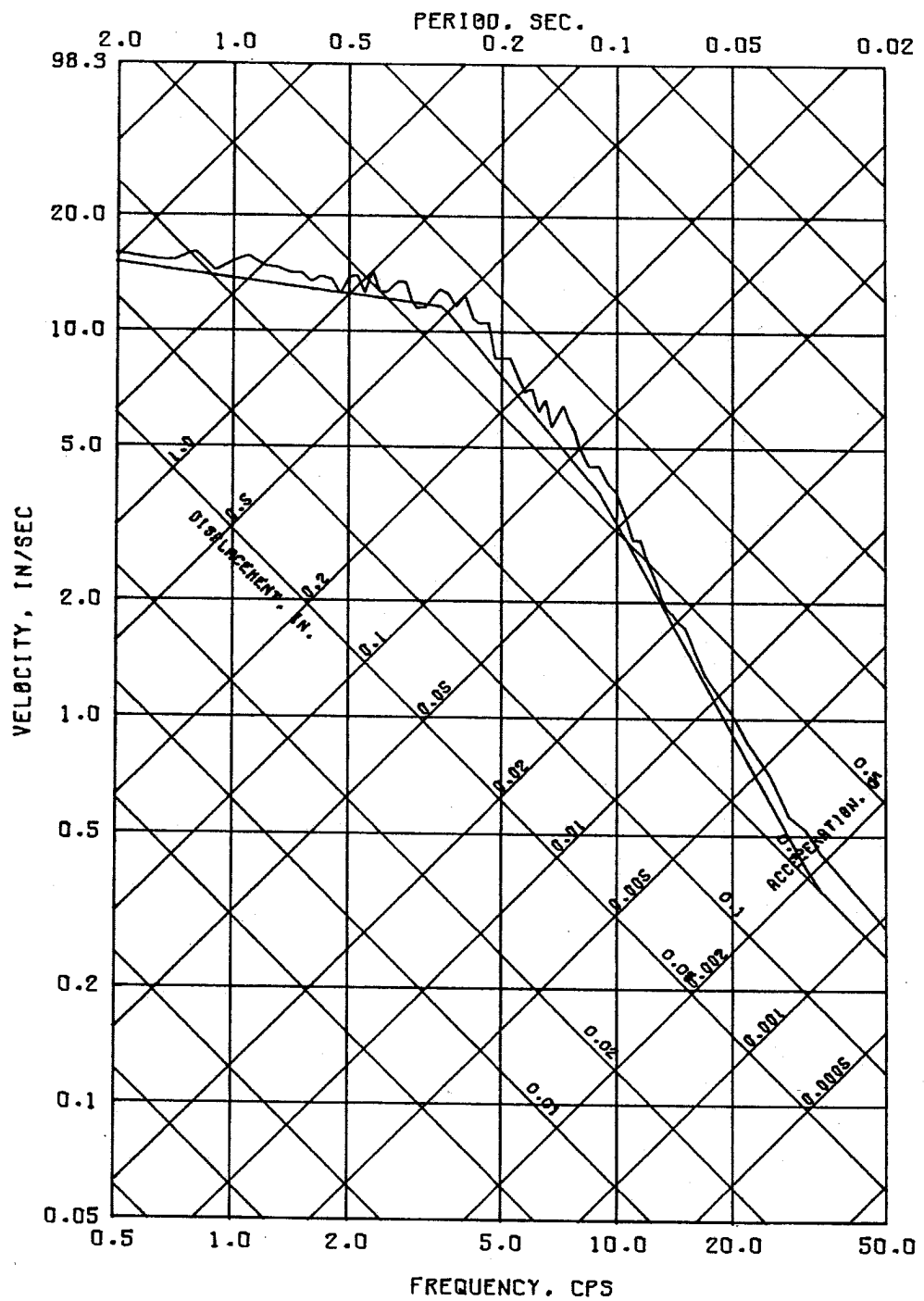


SLV MATCH WITH VERT R.G. SPEC 3 PER DAMP

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.7-7

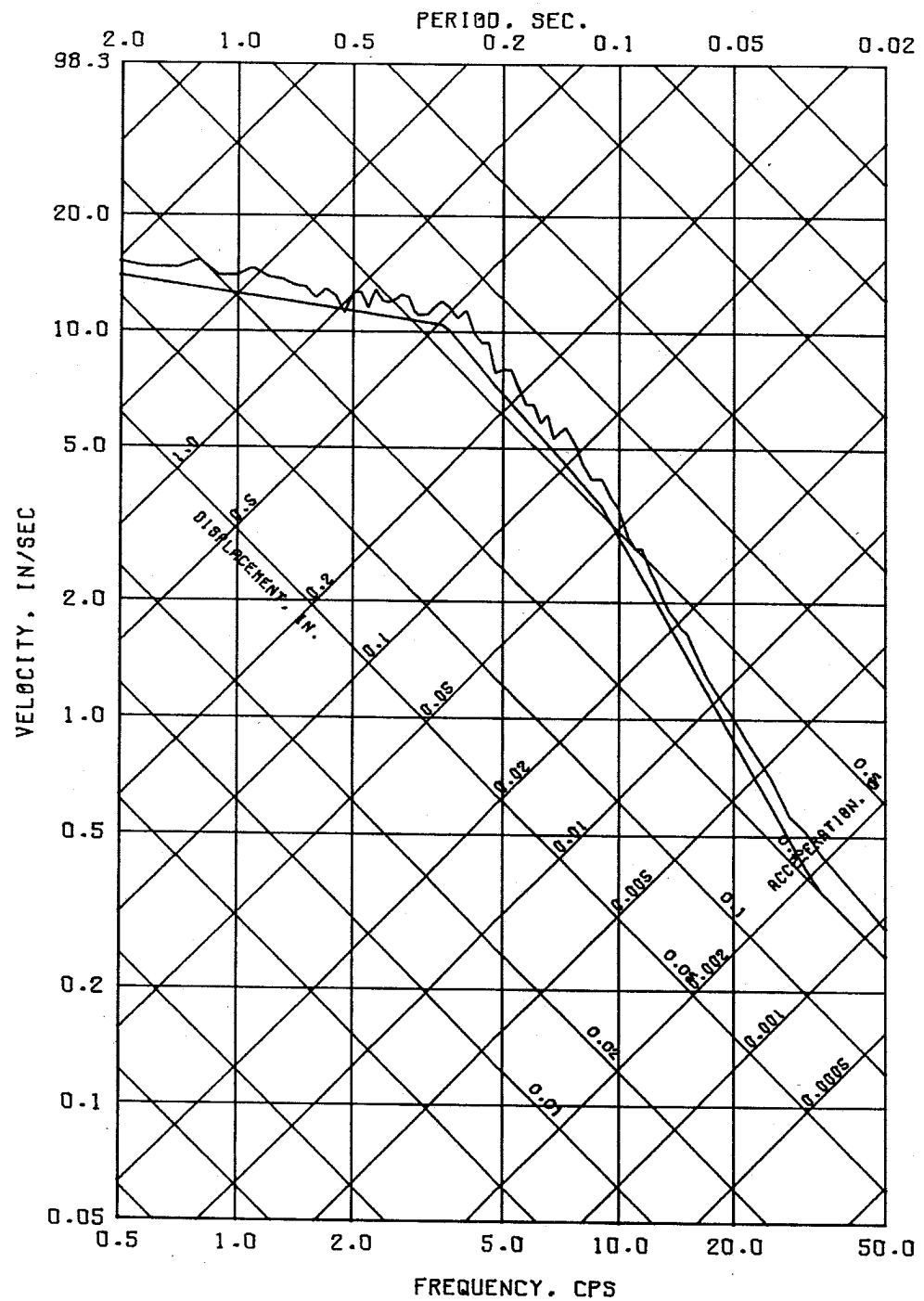
VERTICAL RESPONSE SPECTRA
(3% DAMPING)



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

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

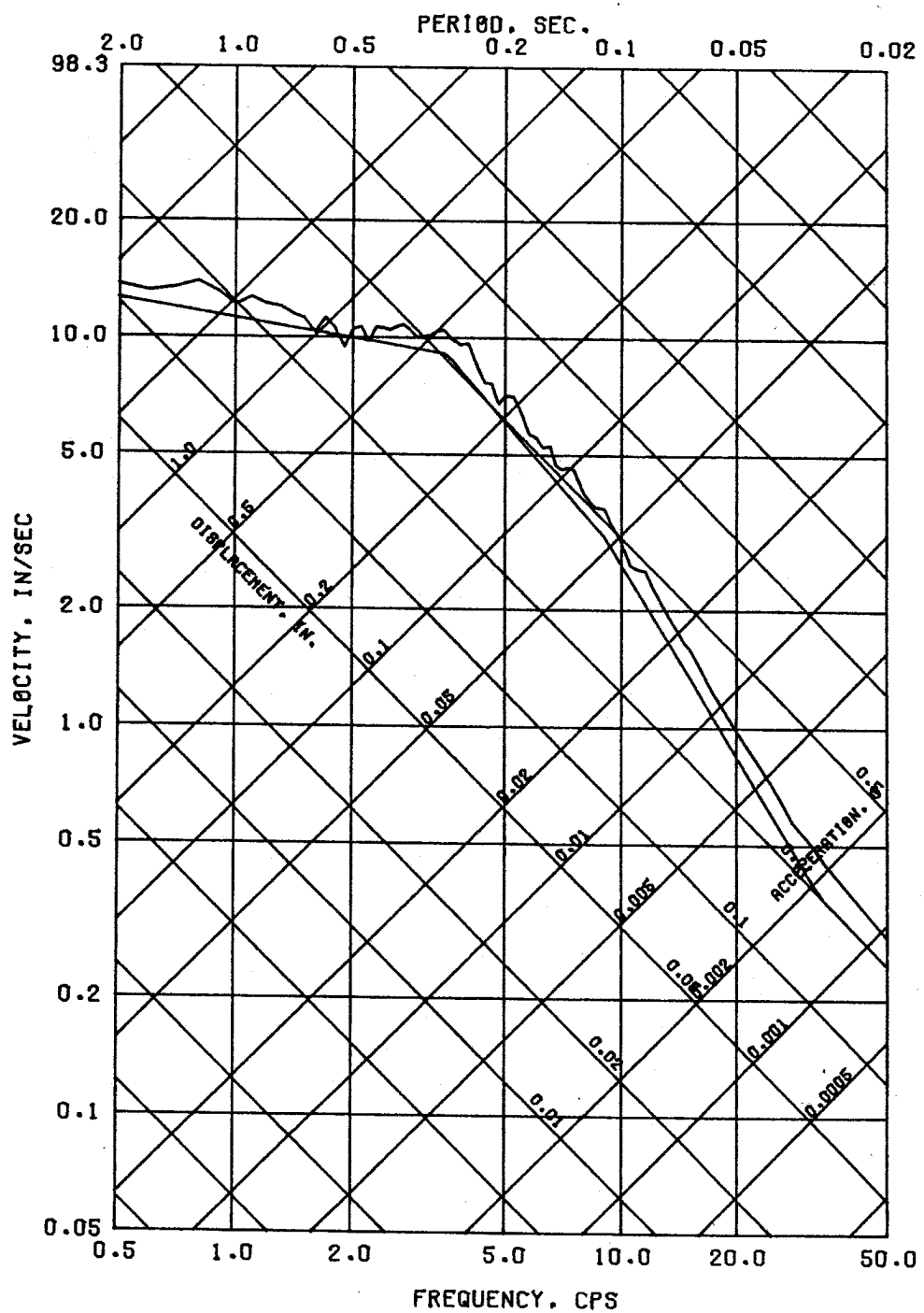
FIGURE 3.7-8
VERTICAL RESPONSE SPECTRA
(4% DAMPING)



SLV MATCH WITH VERT R.G. SPEC 5 PER DAMP

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

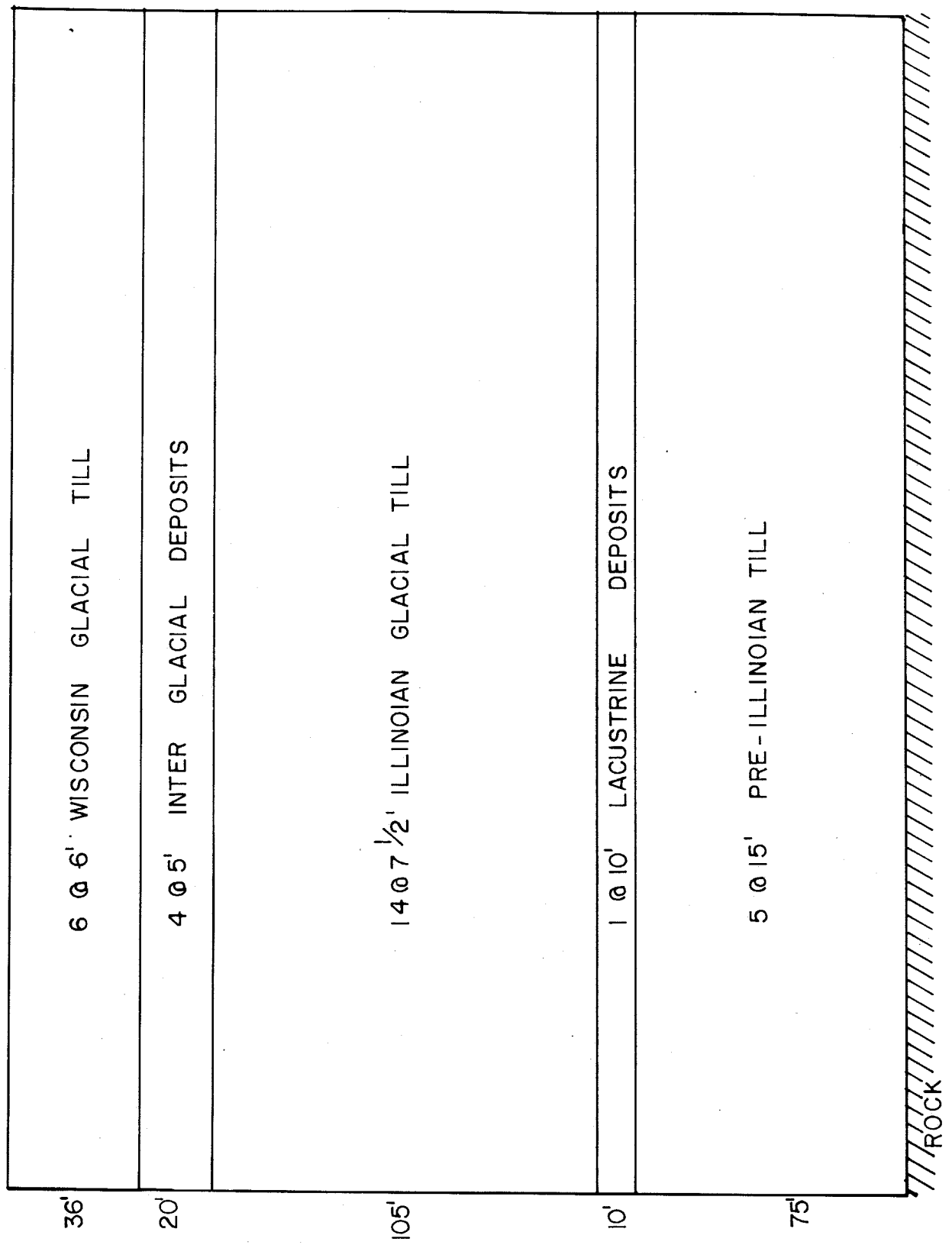
FIGURE 3.7-9
VERTICAL RESPONSE SPECTRA
(5% DAMPING)



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

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

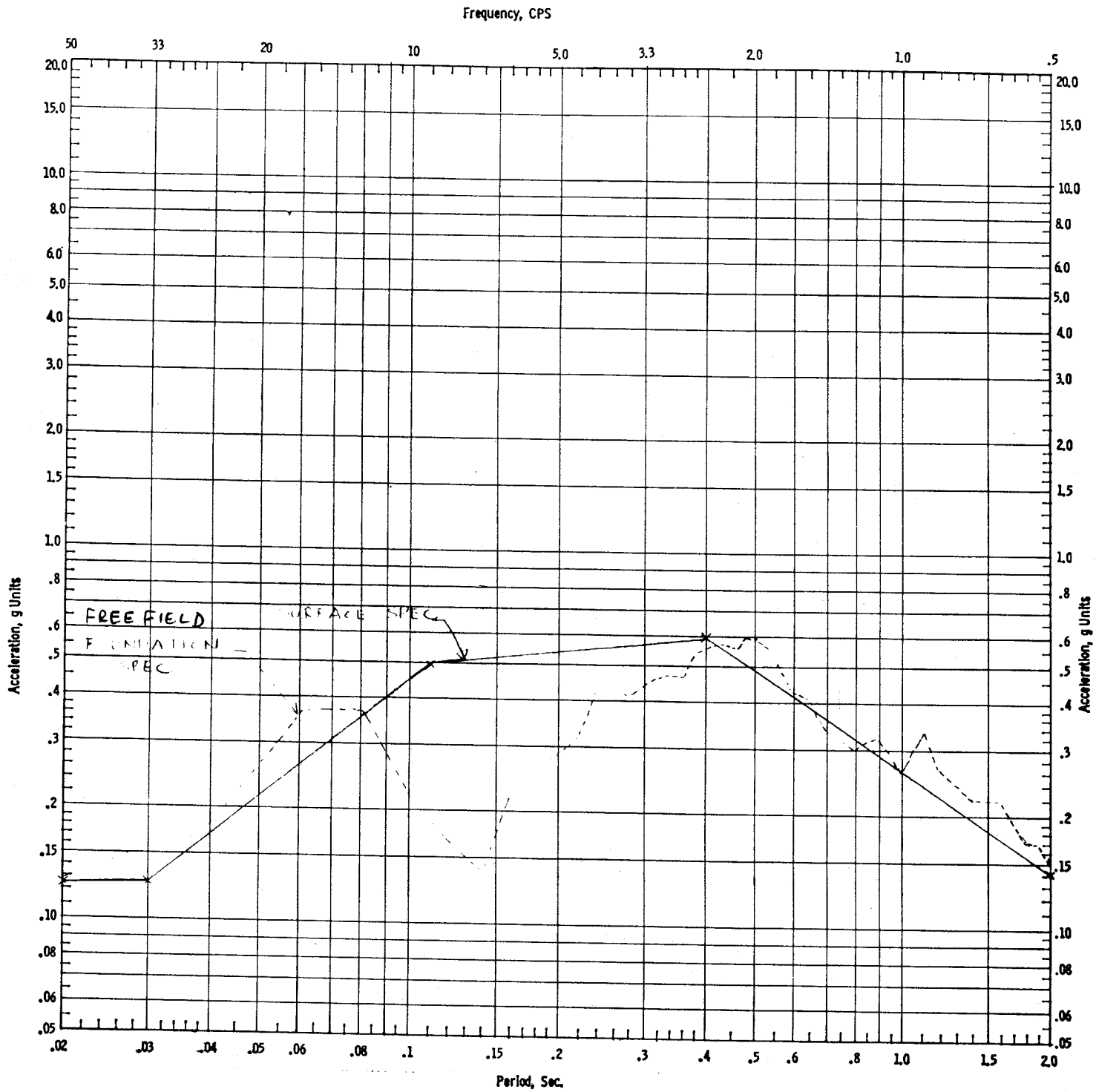
FIGURE 3.7-10
VERTICAL RESPONSE SPECTRA
(7% DAMPING)



CLINTON POWER STATION
 UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.7-11

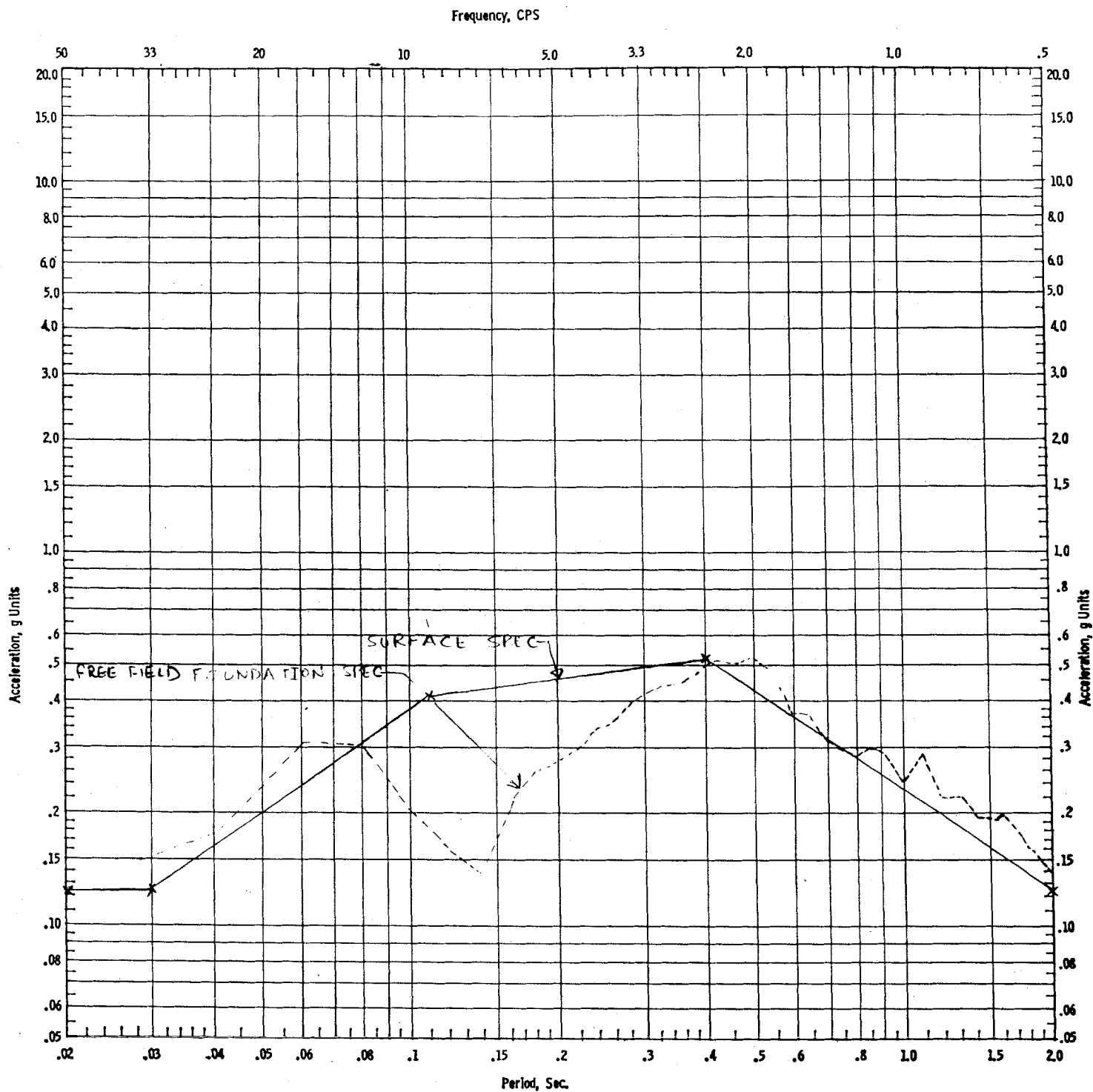
SOIL LAYERING MODEL
 USED IN SHAKE



**CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT**

FIGURE 3.7-12

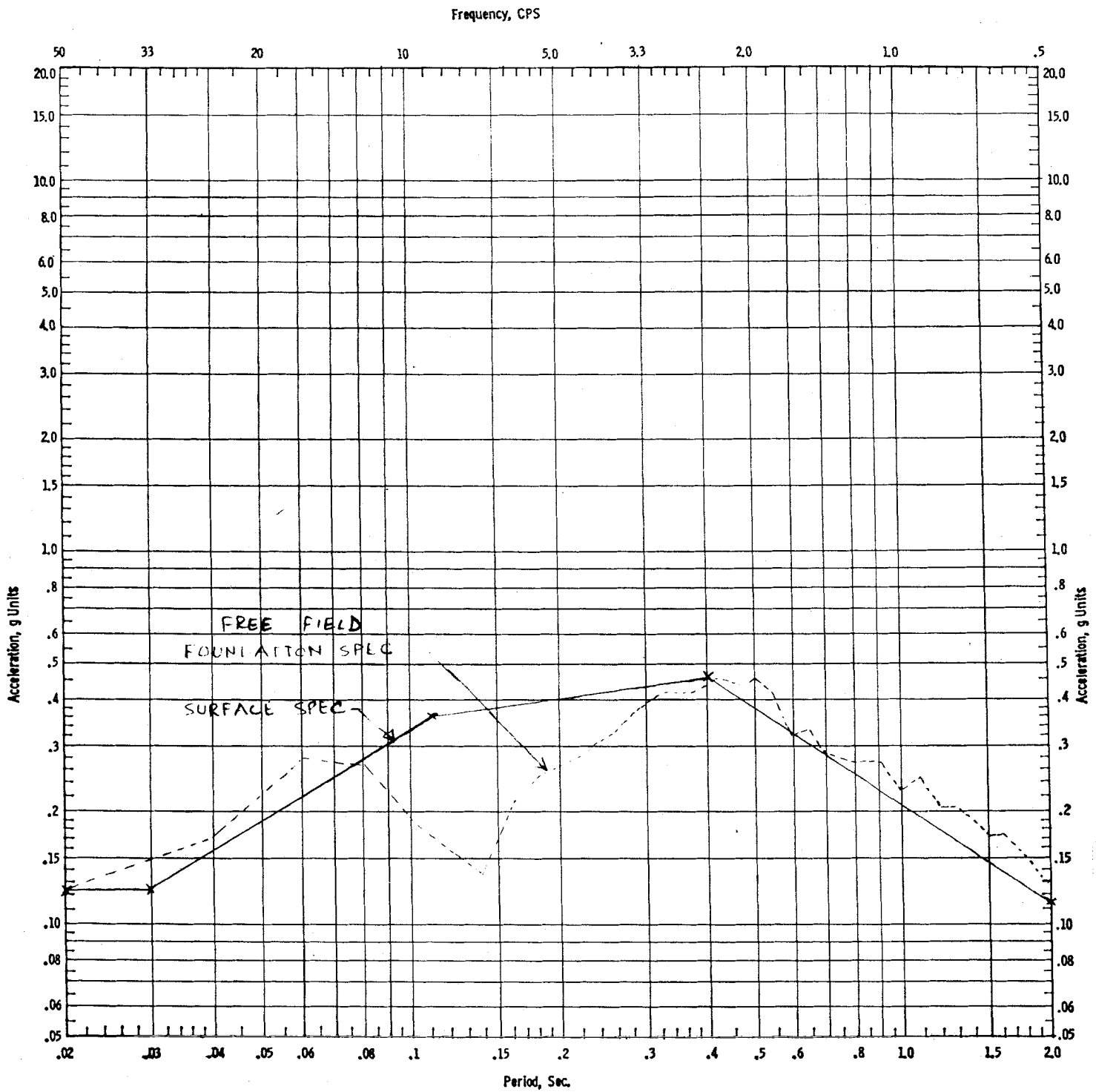
COMPARISON BETWEEN FREE FIELD
FOUNDATION AND SURFACE SPECTRA
FOR OBE HORIZONTAL 1% DAMPING



**CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT**

FIGURE 3.7-13

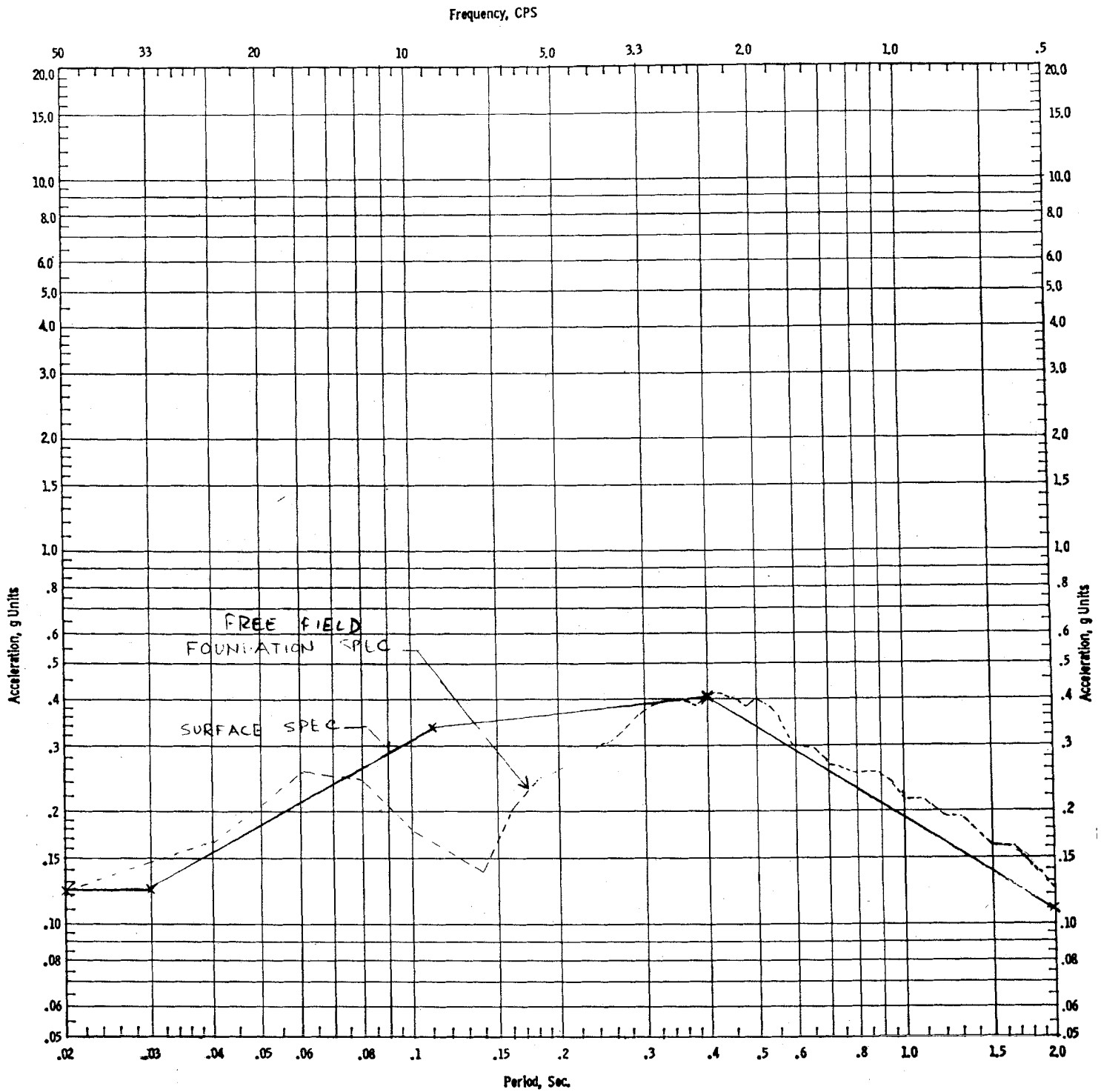
COMPARISON BETWEEN FREE FIELD
FOUNDATION AND SURFACE SPECTRA
FOR OBE HORIZONTAL 2% DAMPING



**CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT**

FIGURE 3.7-14

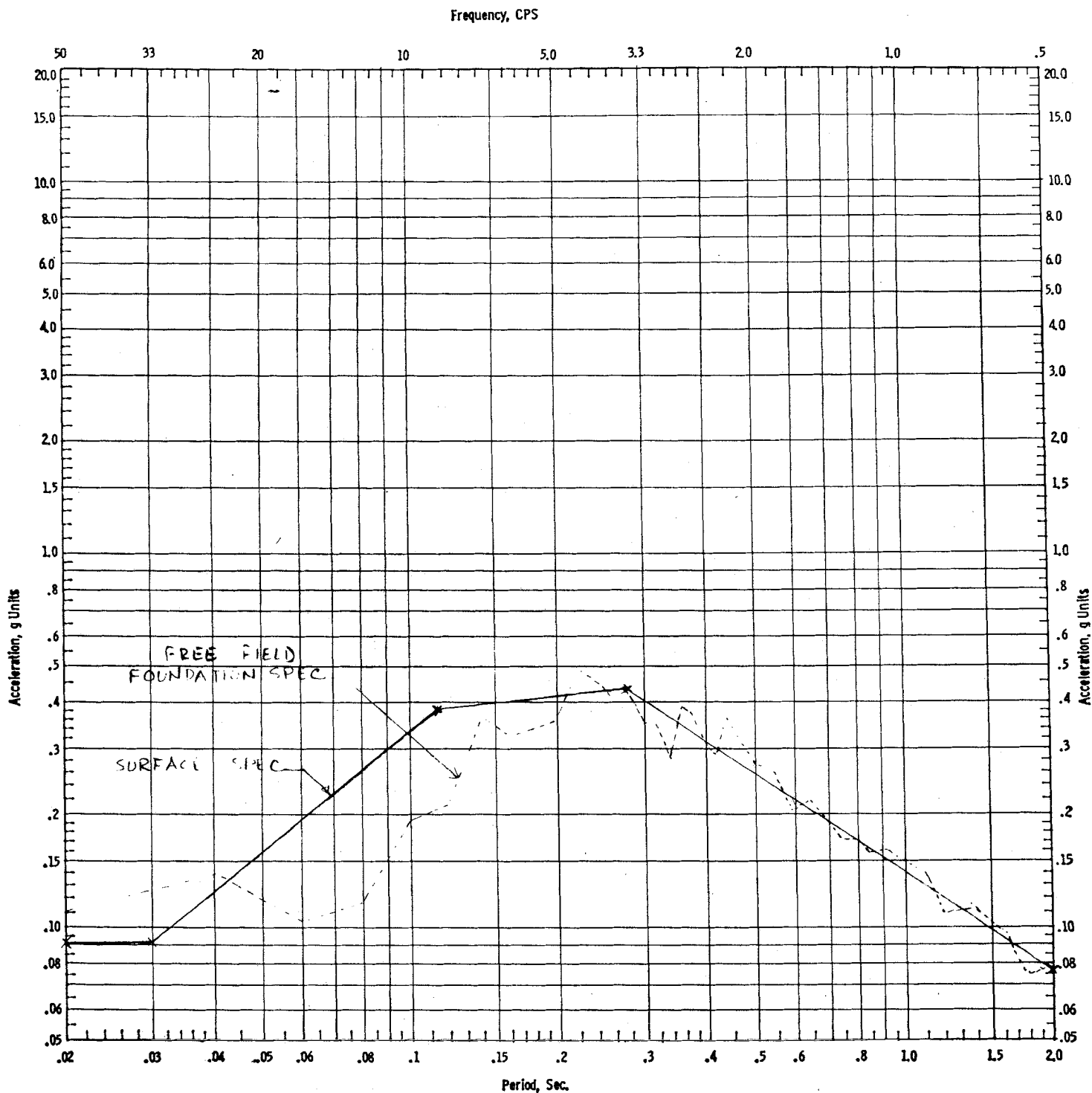
COMPARISON BETWEEN FREE FIELD
FOUNDATION AND SURFACE SPECTRA
FOR OBE HORIZONTAL 3% DAMPING



**CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT**

FIGURE 3.7-15

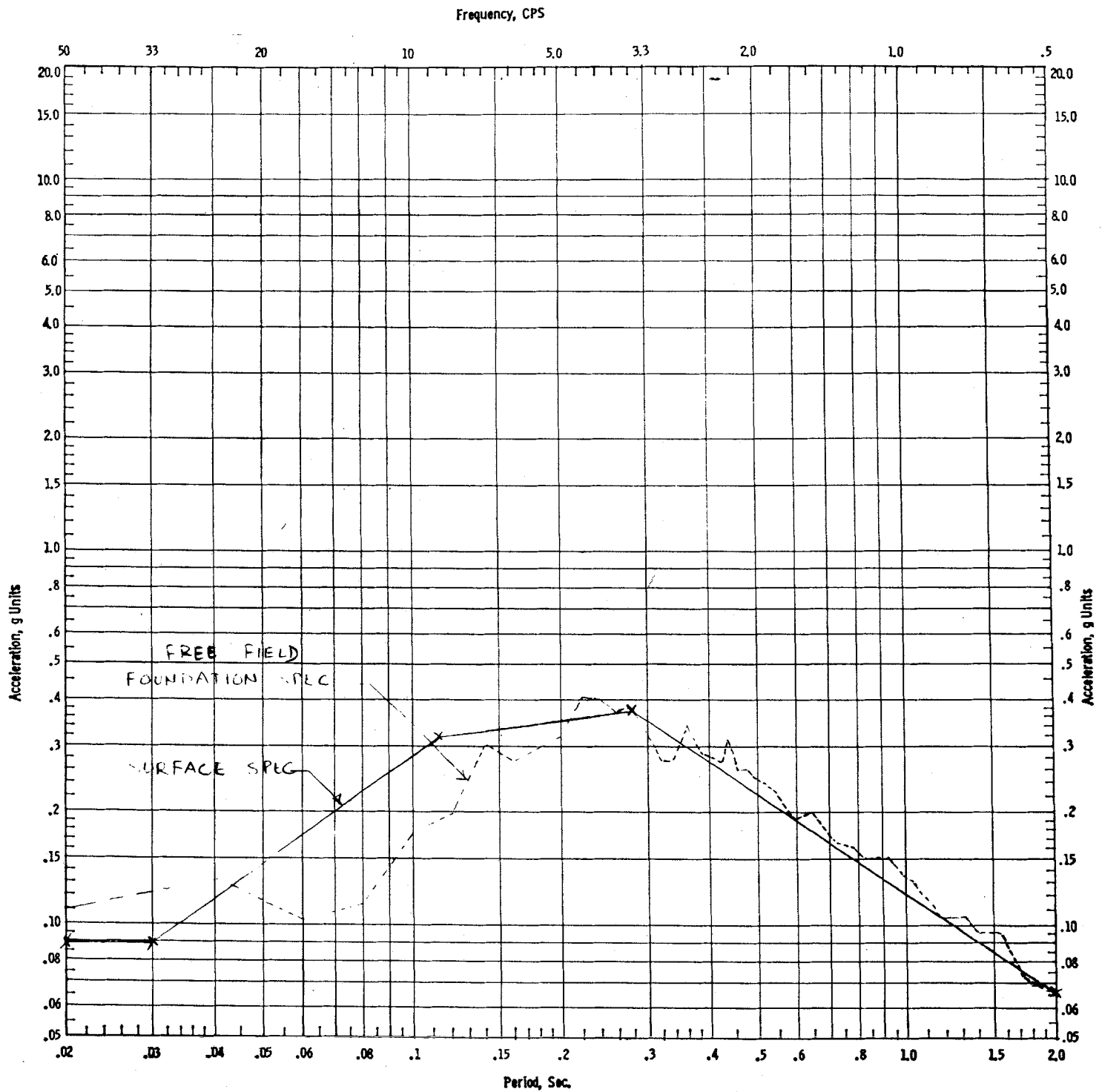
COMPARISON BETWEEN FREE FIELD
FOUNDATION AND SURFACE SPECTRA
FOR OBE HORIZONTAL 4% DAMPING



**CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT**

FIGURE 3.7-16

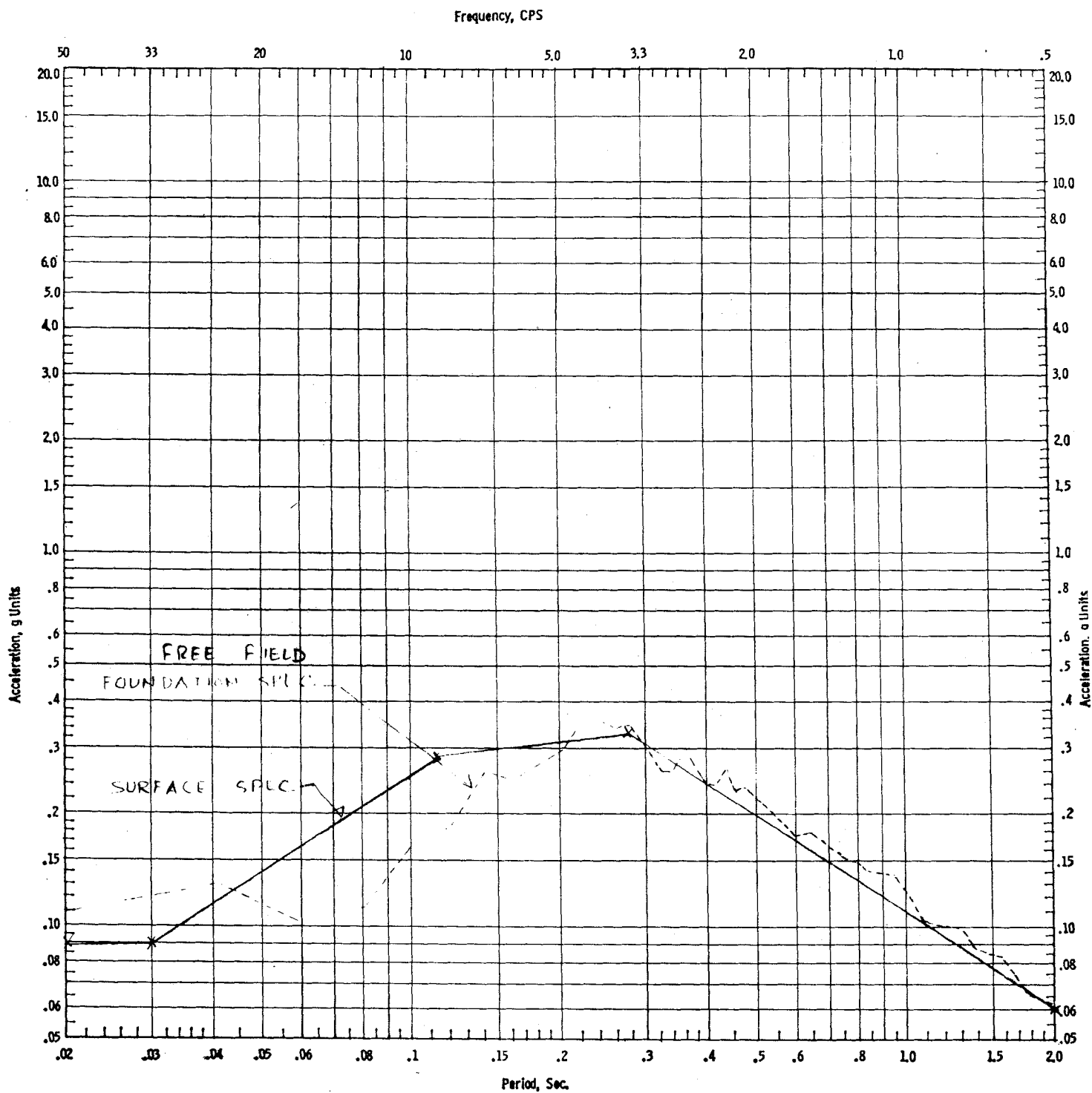
COMPARISON BETWEEN FREE FIELD
FOUNDATION AND SURFACE SPECTRA
FOR OBE VERTICAL 1% DAMPING



**CLINTON POWER STATION
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FIGURE 3.7-17

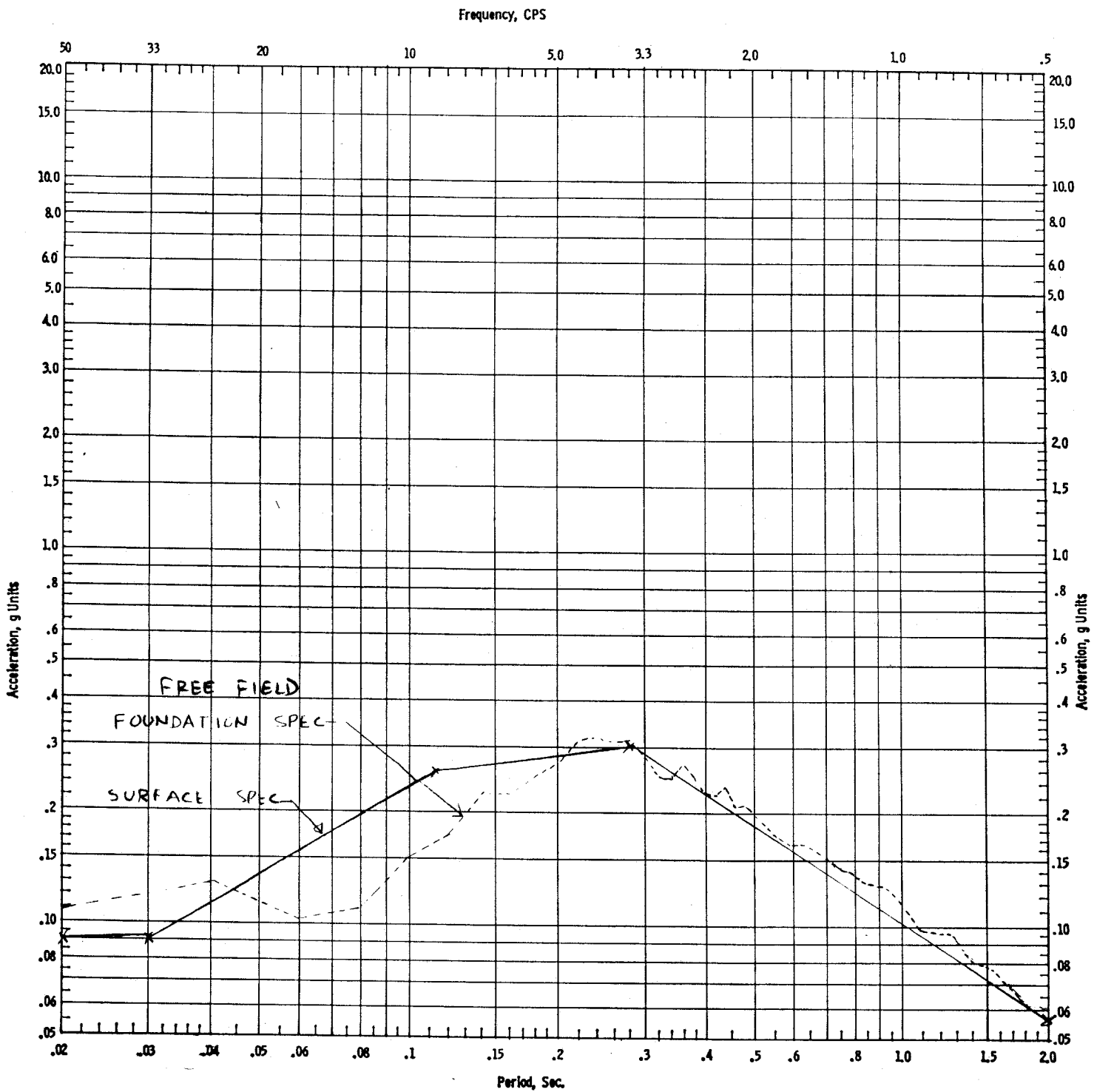
COMPARISON BETWEEN FREE FIELD
FOUNDATION AND SURFACE SPECTRA
FOR OBE VERTICAL 2% DAMPING



**CLINTON POWER STATION
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FIGURE 3.7-18

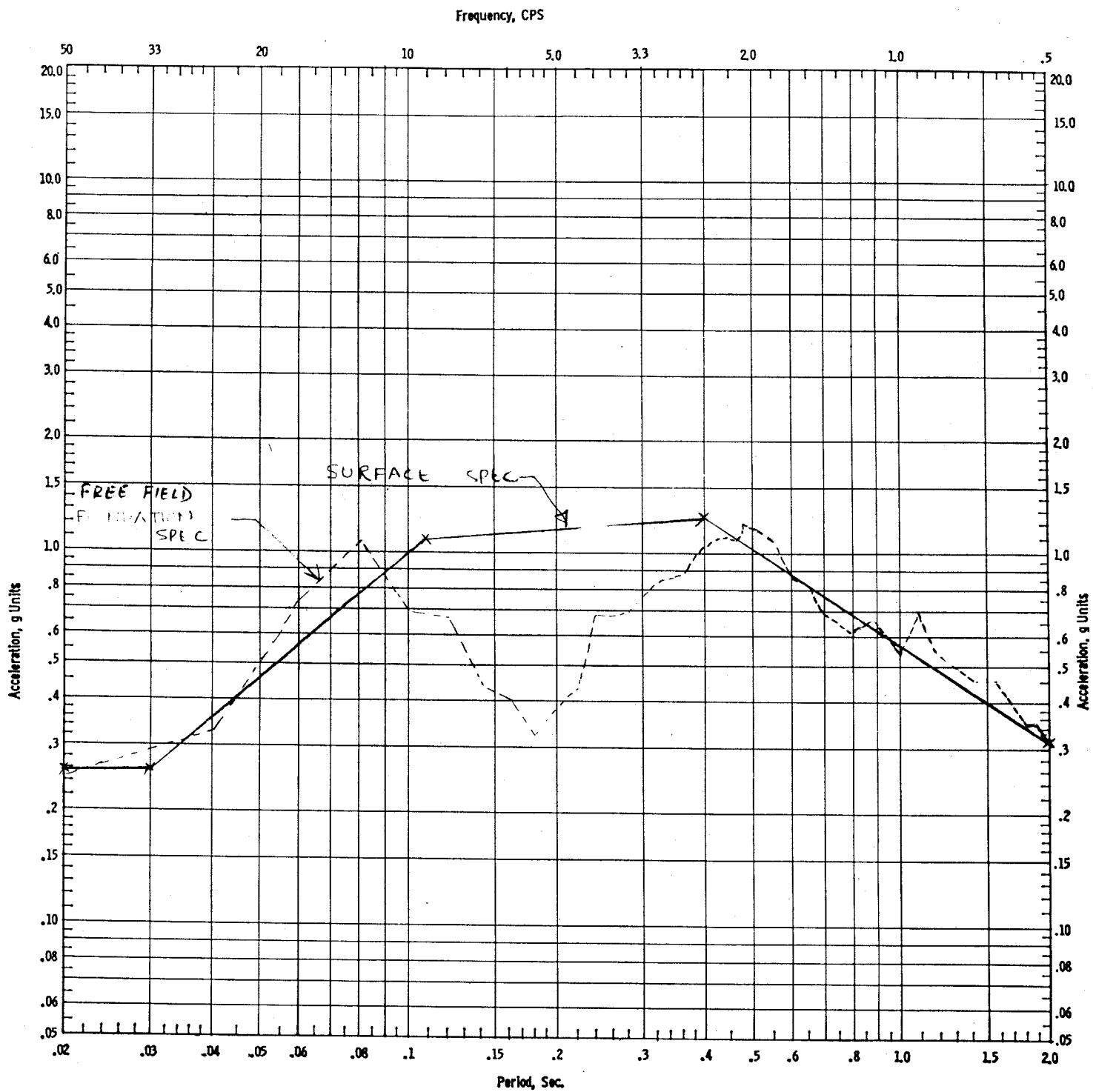
COMPARISON BETWEEN FREE FIELD
FOUNDATION AND SURFACE SPECTRA
FOR OBE VERTICAL 3% DAMPING



**CLINTON POWER STATION
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FIGURE 3.7-19

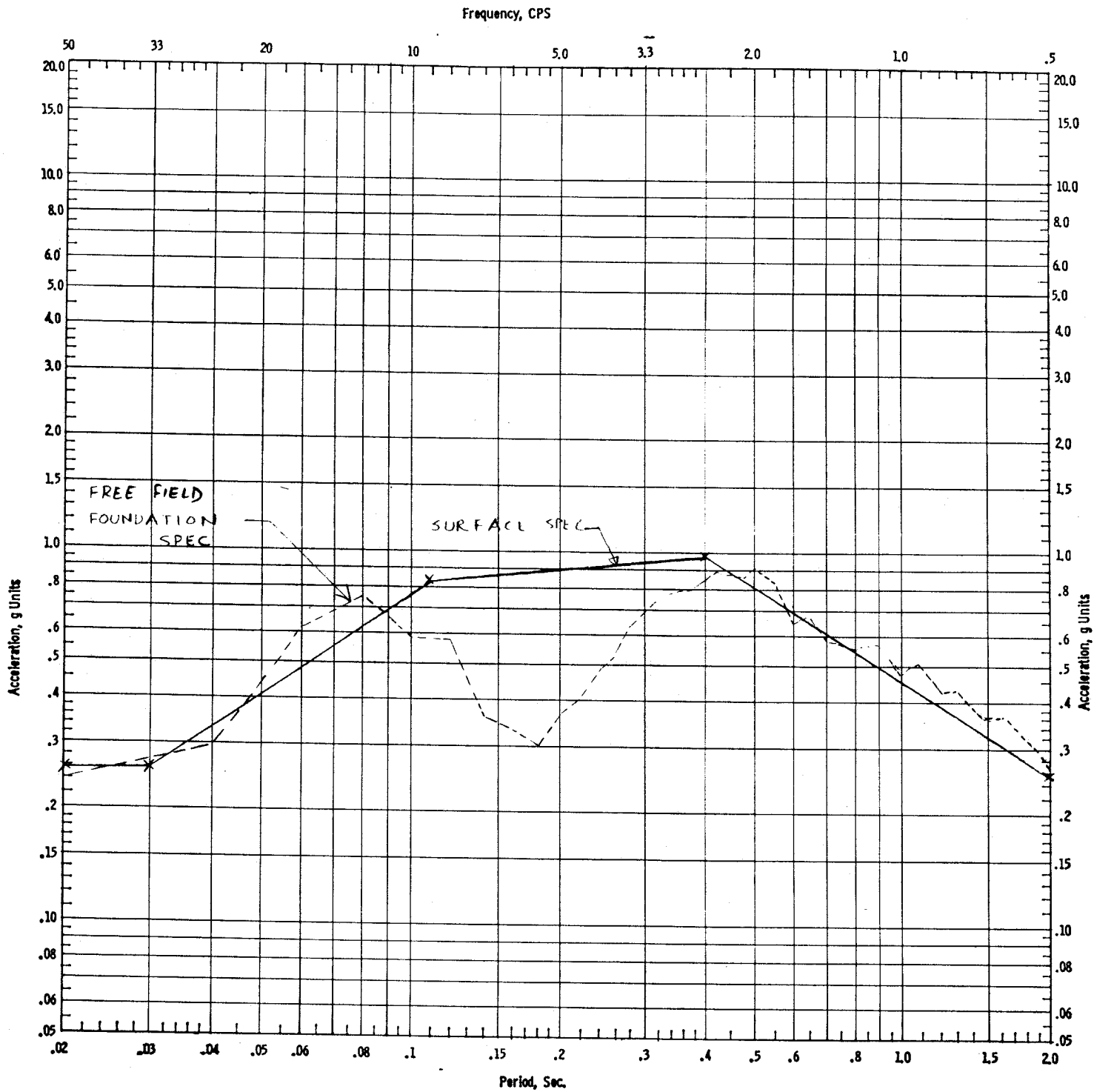
COMPARISON BETWEEN FREE FIELD
FOUNDATION AND SURFACE SPECTRA
FOR OBE VERTICAL 4% DAMPING



**CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT**

FIGURE 3.7-20

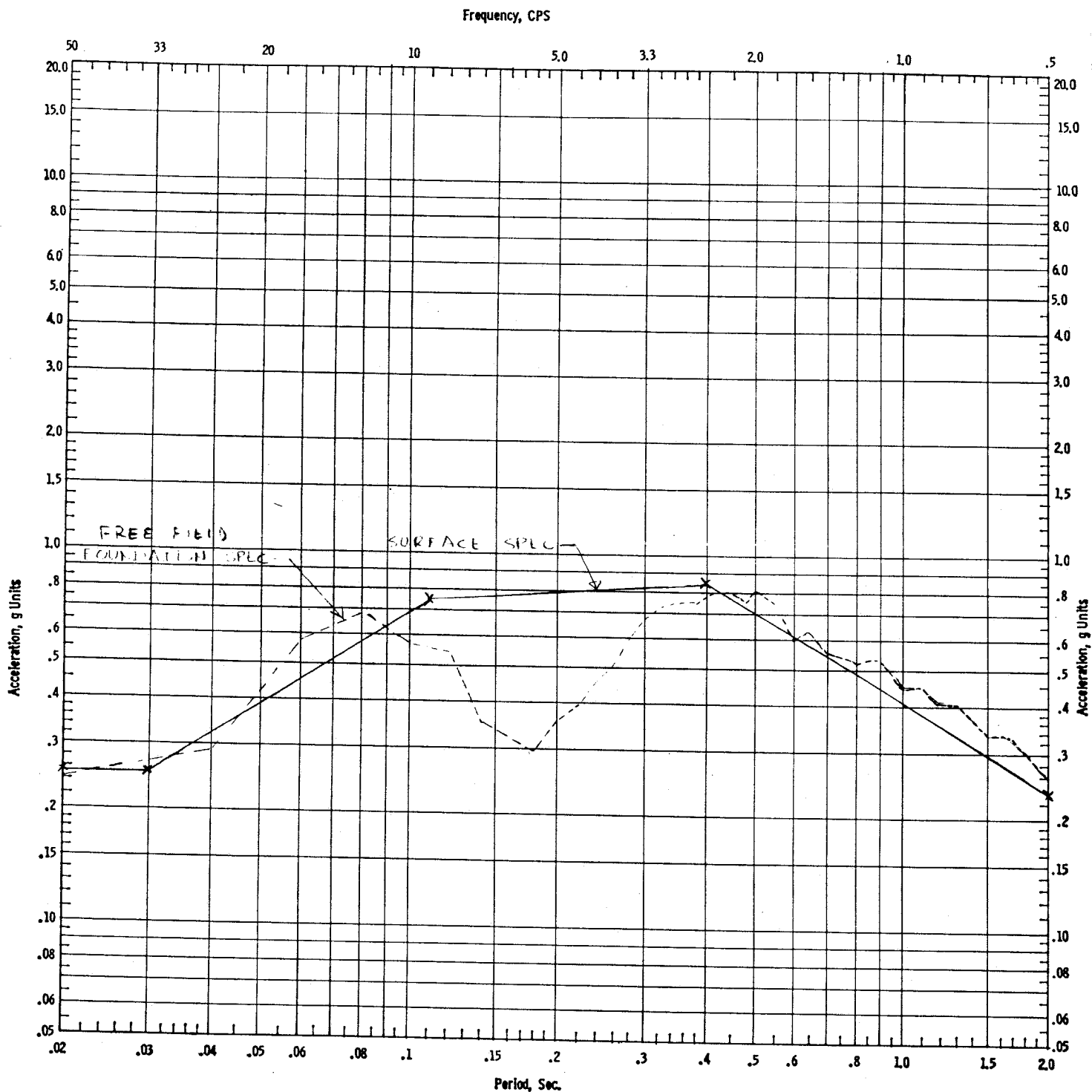
COMPARISON BETWEEN FREE FIELD
FOUNDATION AND SURFACE SPECTRA
FOR SSE HORIZONTAL 1% DAMPING



**CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT**

FIGURE 3.7-21

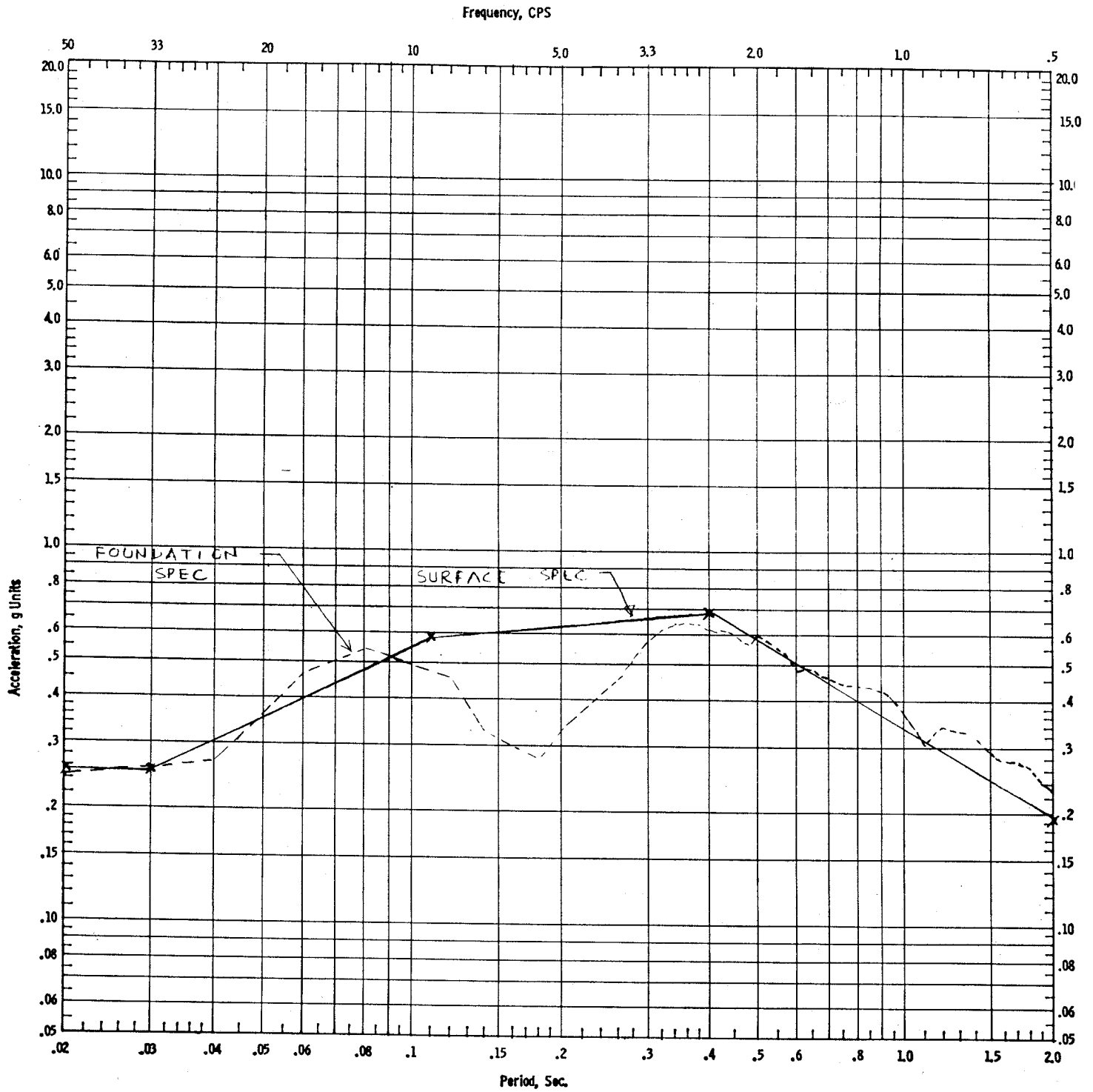
COMPARISON BETWEEN FREE FIELD
FOUNDATION AND SURFACE SPECTRA
FOR SSE HORIZONTAL 3% DAMPING



**CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT**

FIGURE 3.7-22

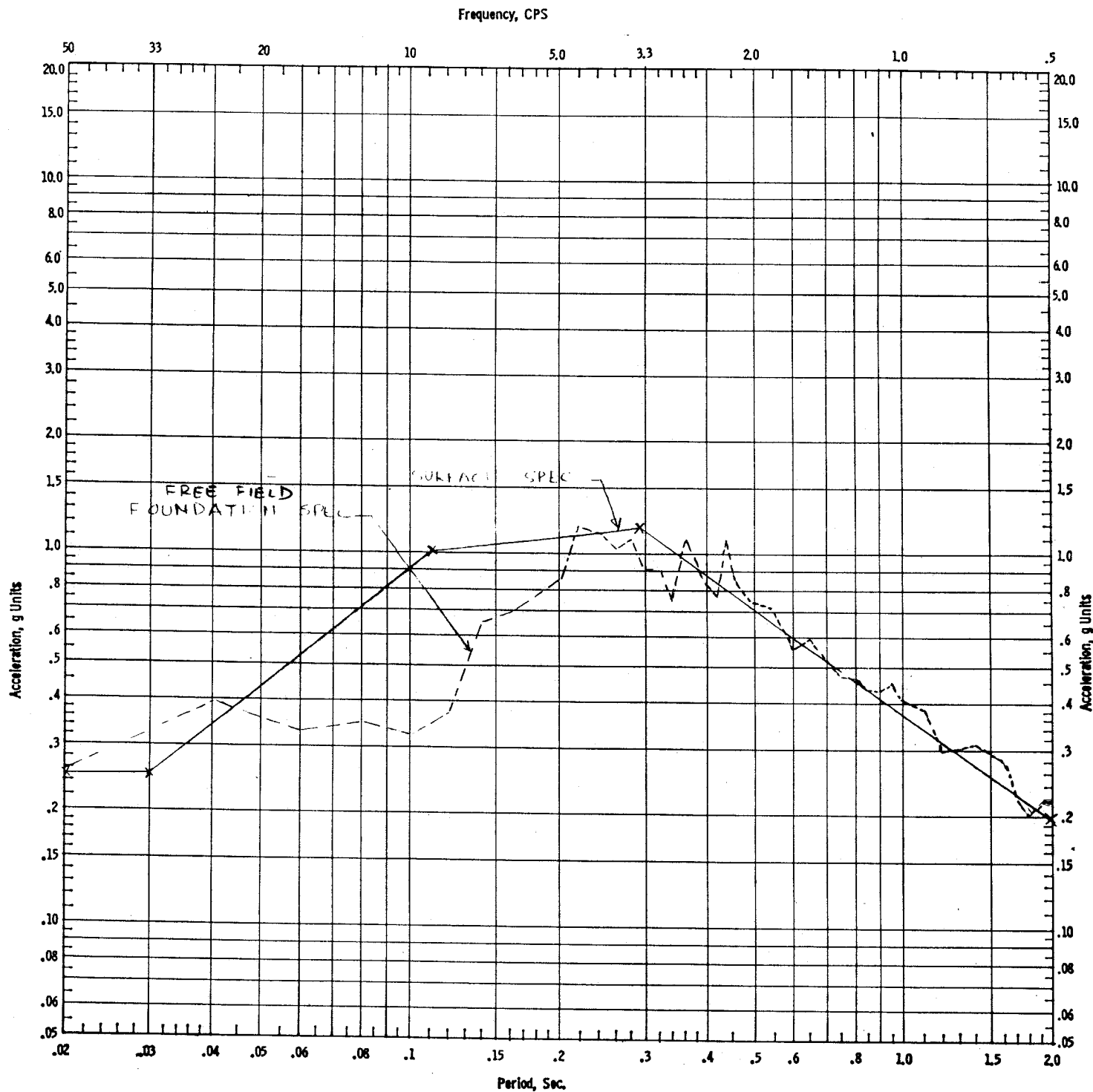
COMPARISON BETWEEN FREE FIELD
FOUNDATION AND SURFACE SPECTRA
FOR SSE HORIZONTAL 4% DAMPING



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.7-23

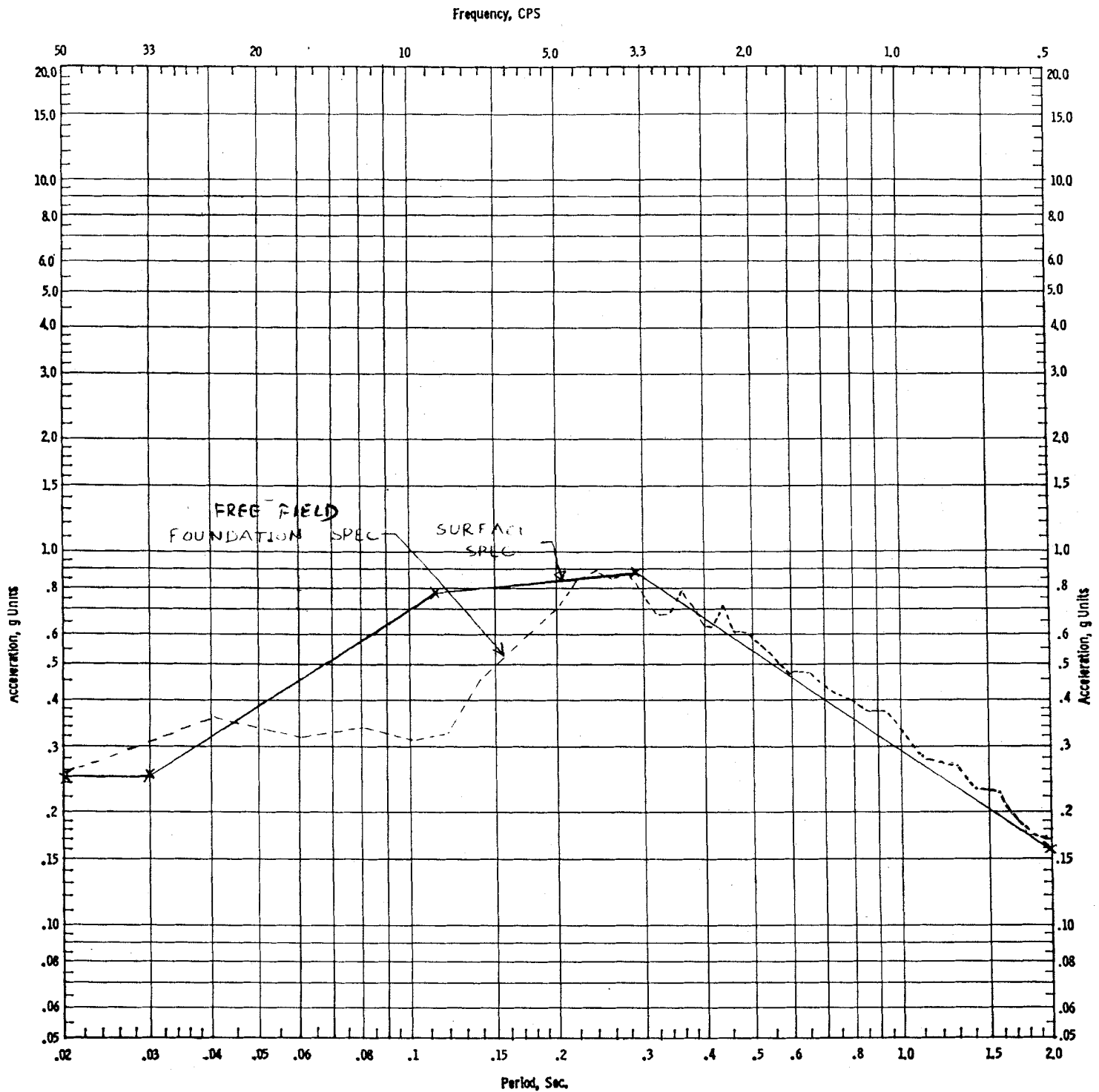
COMPARISON BETWEEN FREE FIELD
FOUNDATION AND SURFACE SPECTRA
FOR SSE HORIZONTAL 7% DAMPING



**CLINTON POWER STATION
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FIGURE 3.7-24

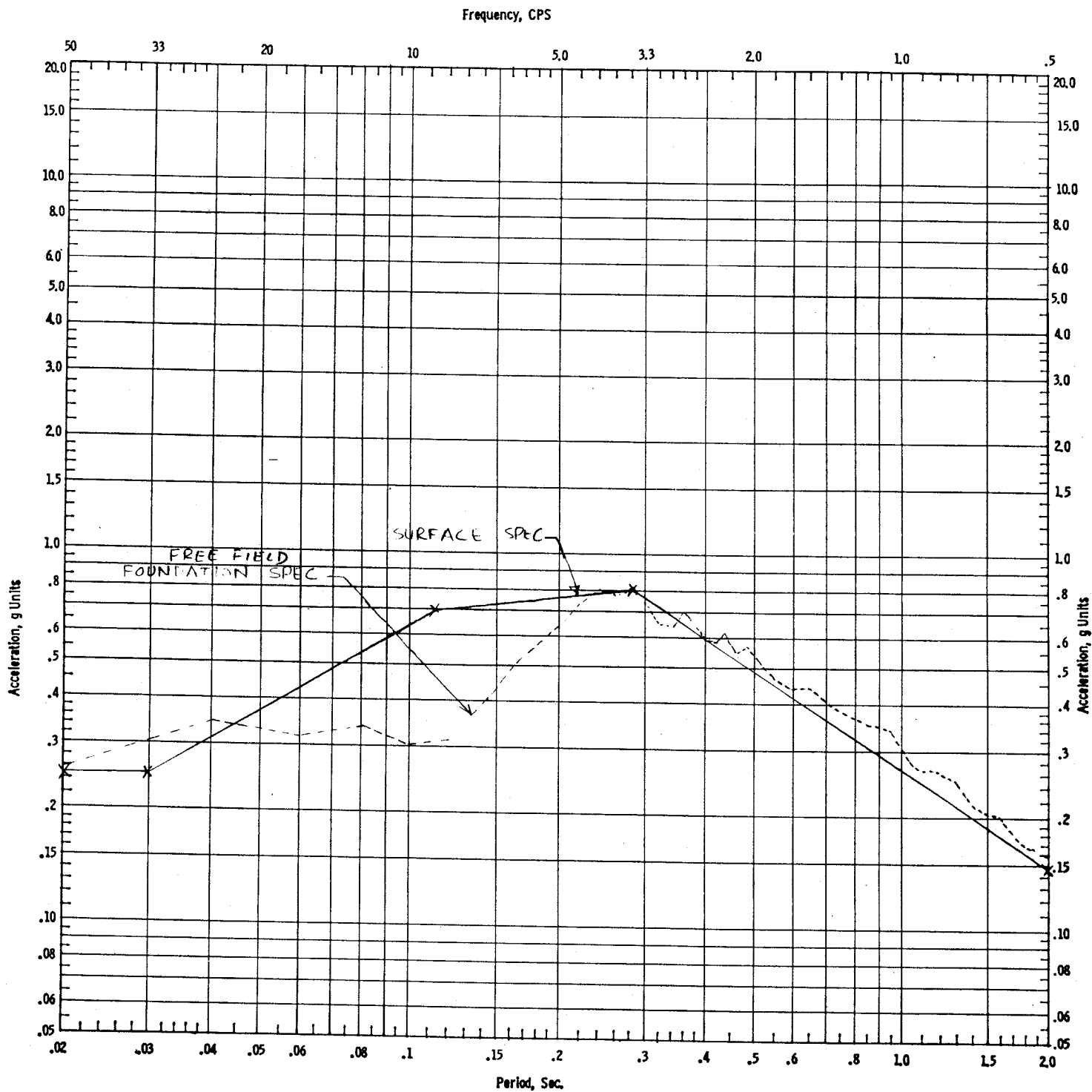
COMPARISON BETWEEN FREE FIELD
FOUNDATION AND SURFACE SPECTRA
FOR SSE VERTICAL 1% DAMPING



**CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT**

FIGURE 3.7-25

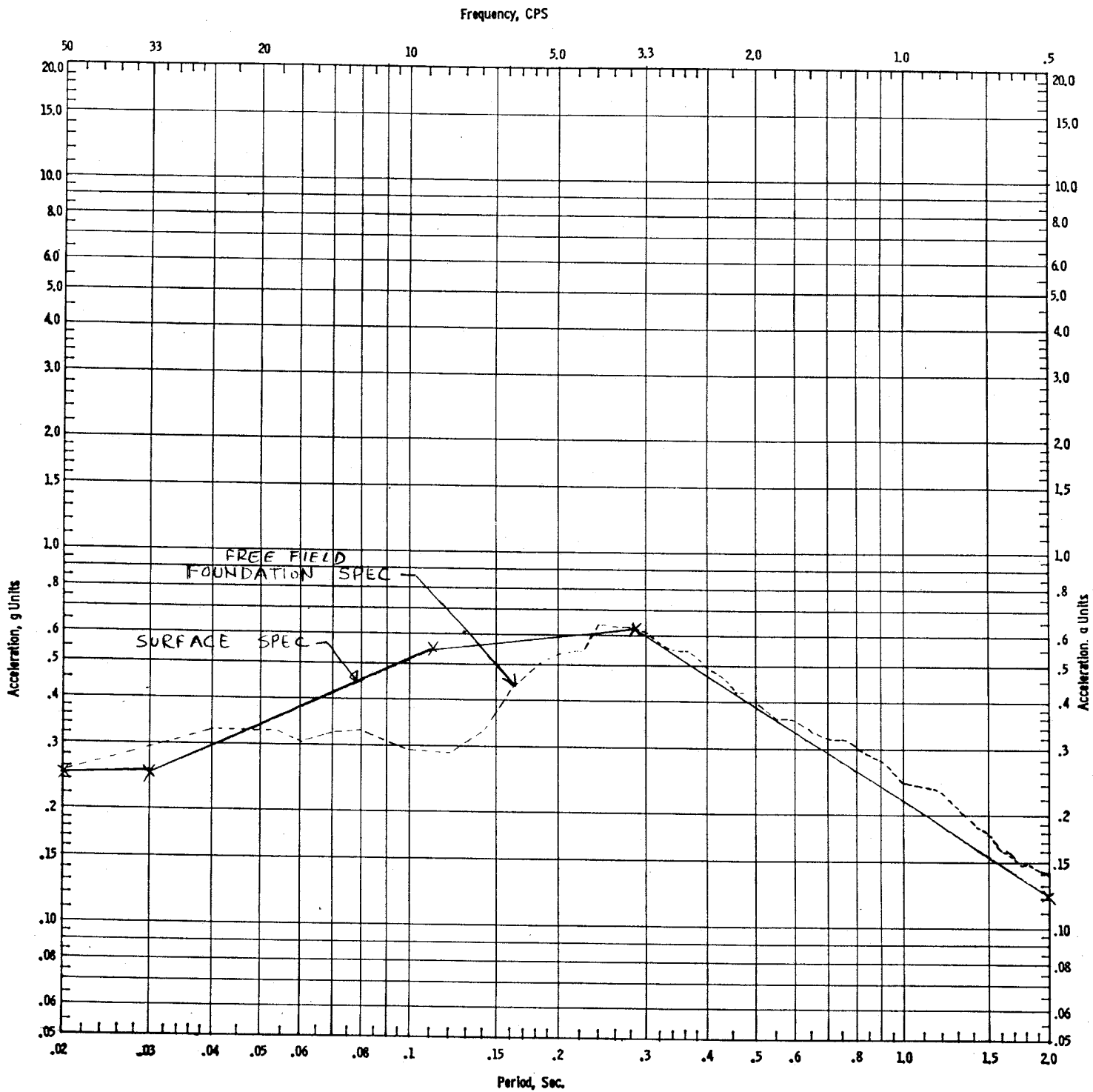
COMPARISON BETWEEN FREE FIELD
FOUNDATION AND SURFACE SPECTRA
FOR SSE VERTICAL 3% DAMPING



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.7-26

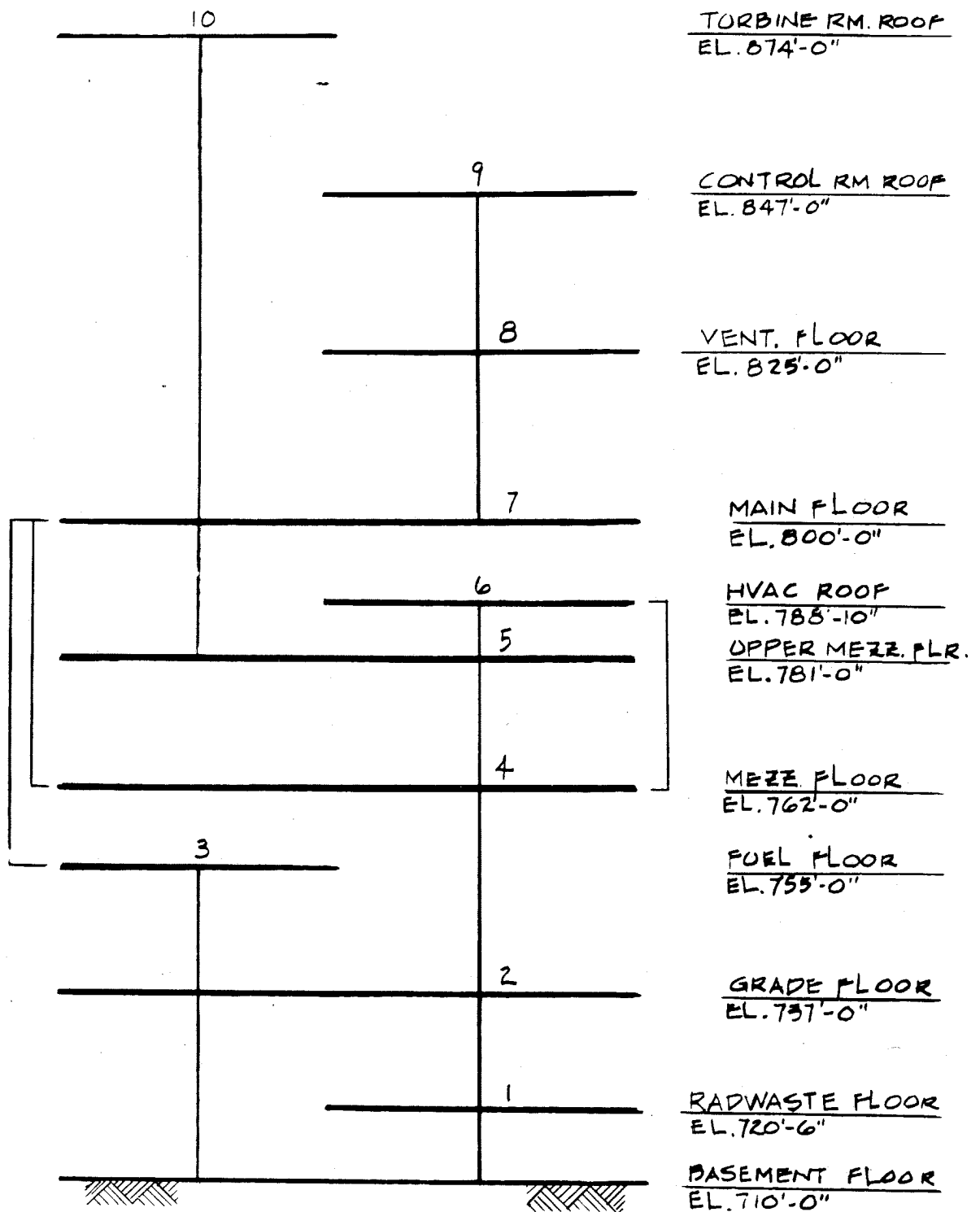
COMPARISON BETWEEN FREE FIELD
FOUNDATION AND SURFACE SPECTRA
FOR SSE VERTICAL 4% DAMPING



**CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT**

FIGURE 3.7-27

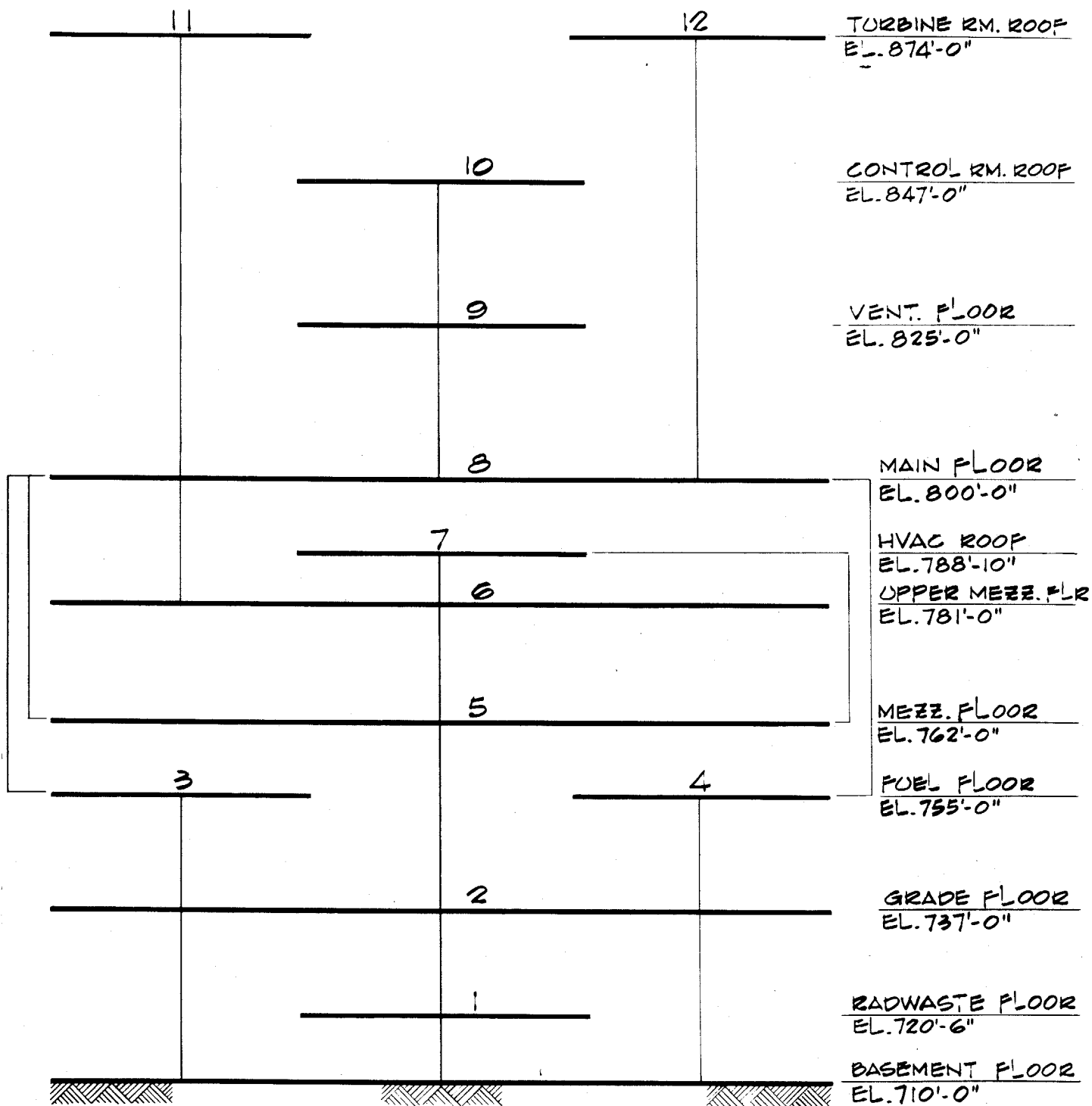
COMPARISON BETWEEN FREE FIELD
FOUNDATION AND SURFACE SPECTRA
FOR SSE VERTICAL 7% DAMPING



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FIGURE 3.7-28

ONE UNIT - HORIZONTAL
BUILDING MODEL

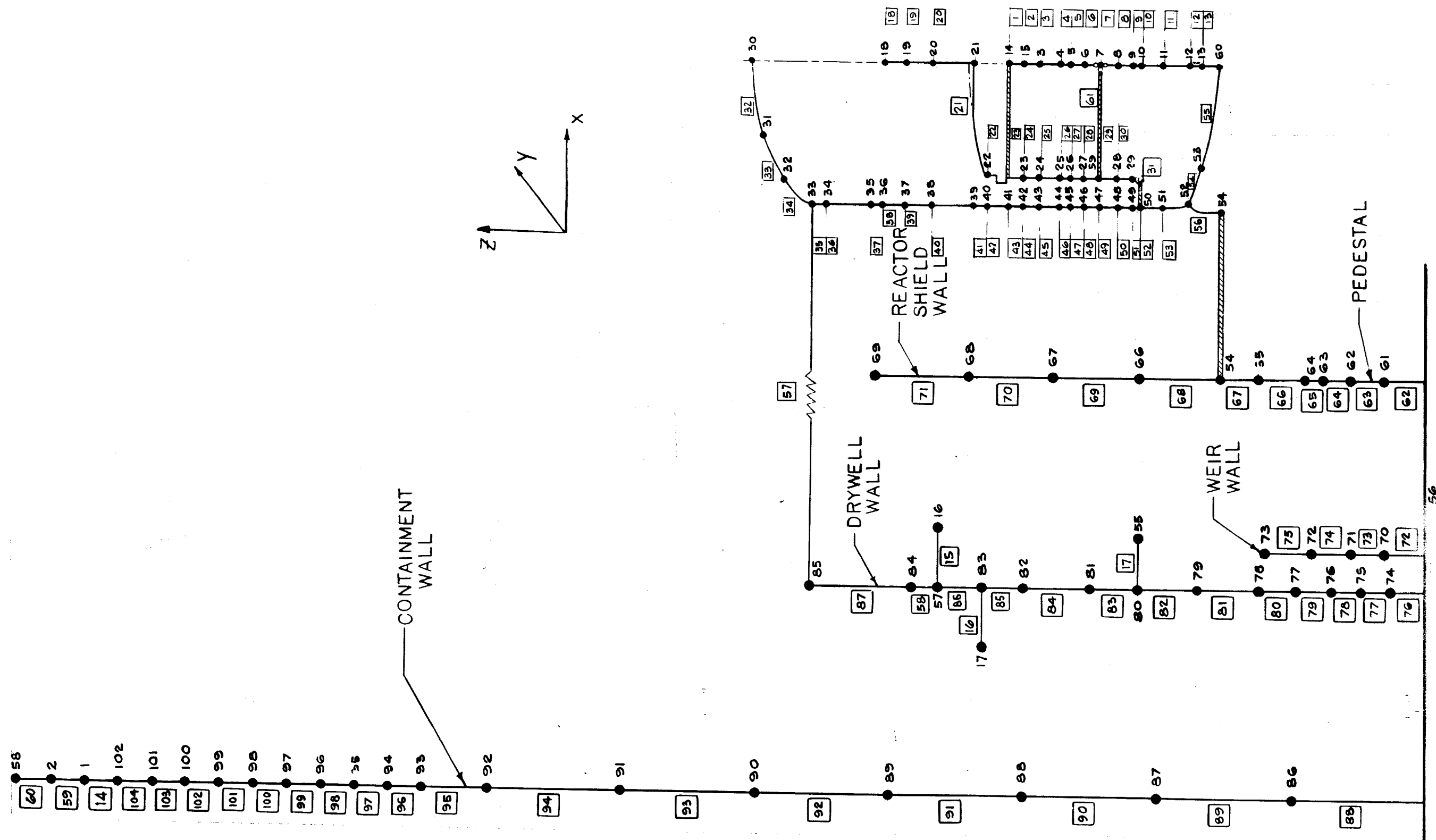


NOTE: UNIT 2 HAS BEEN CANCELLED.

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FIGURE 3.7-29

TWO UNIT - HORIZONTAL
BUILDING MODEL

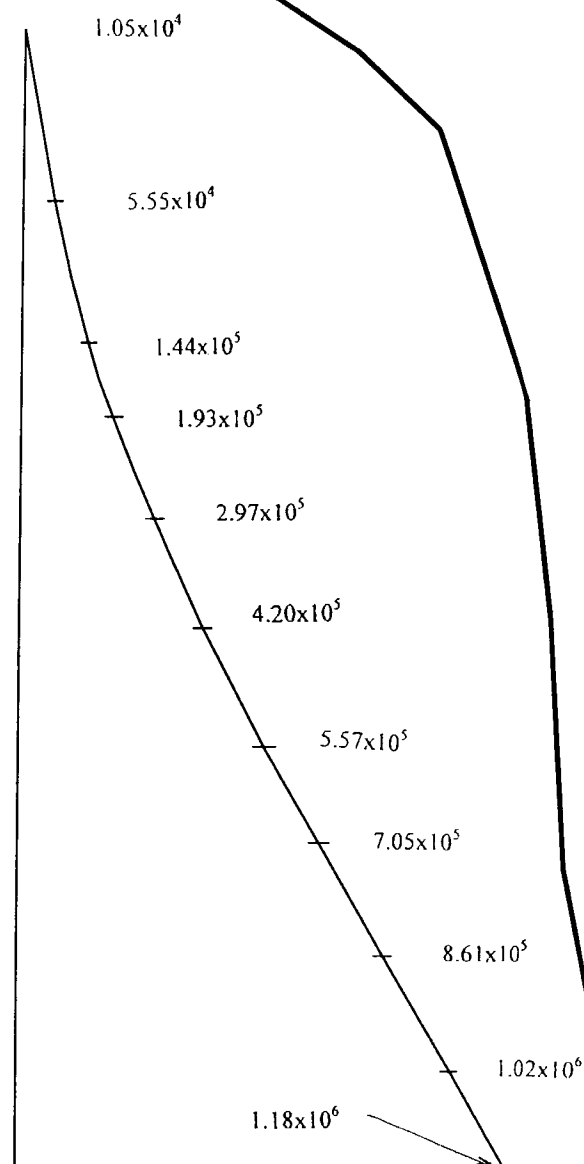
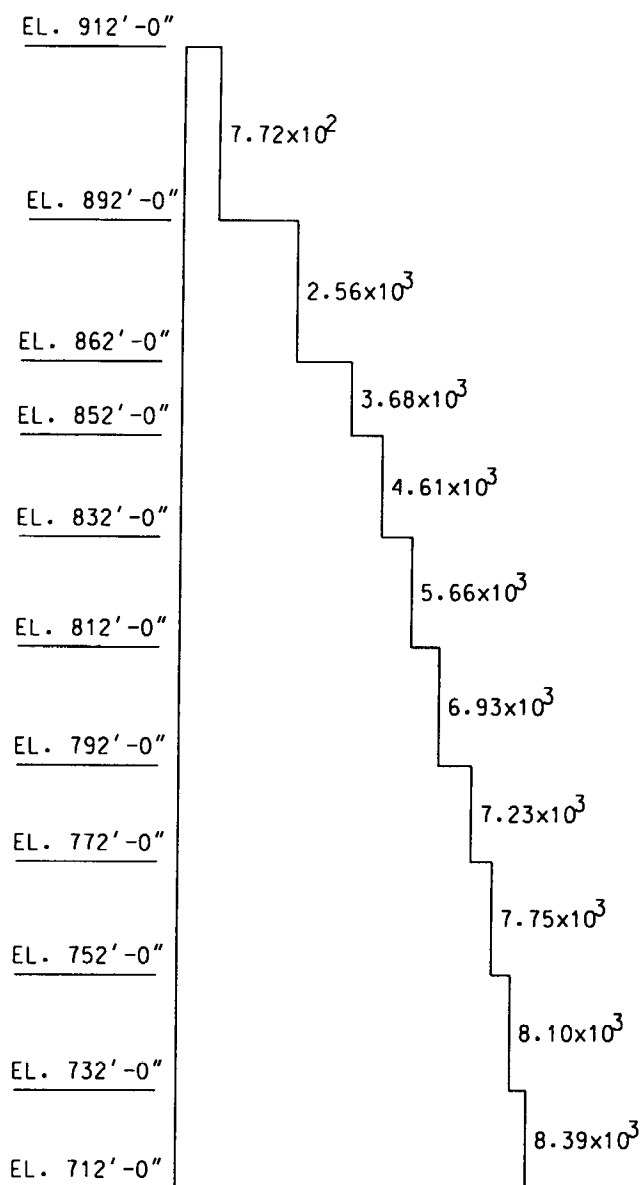


NOTE: NUMBERS IN □ REPRESENT ELEMENT NUMBERS.

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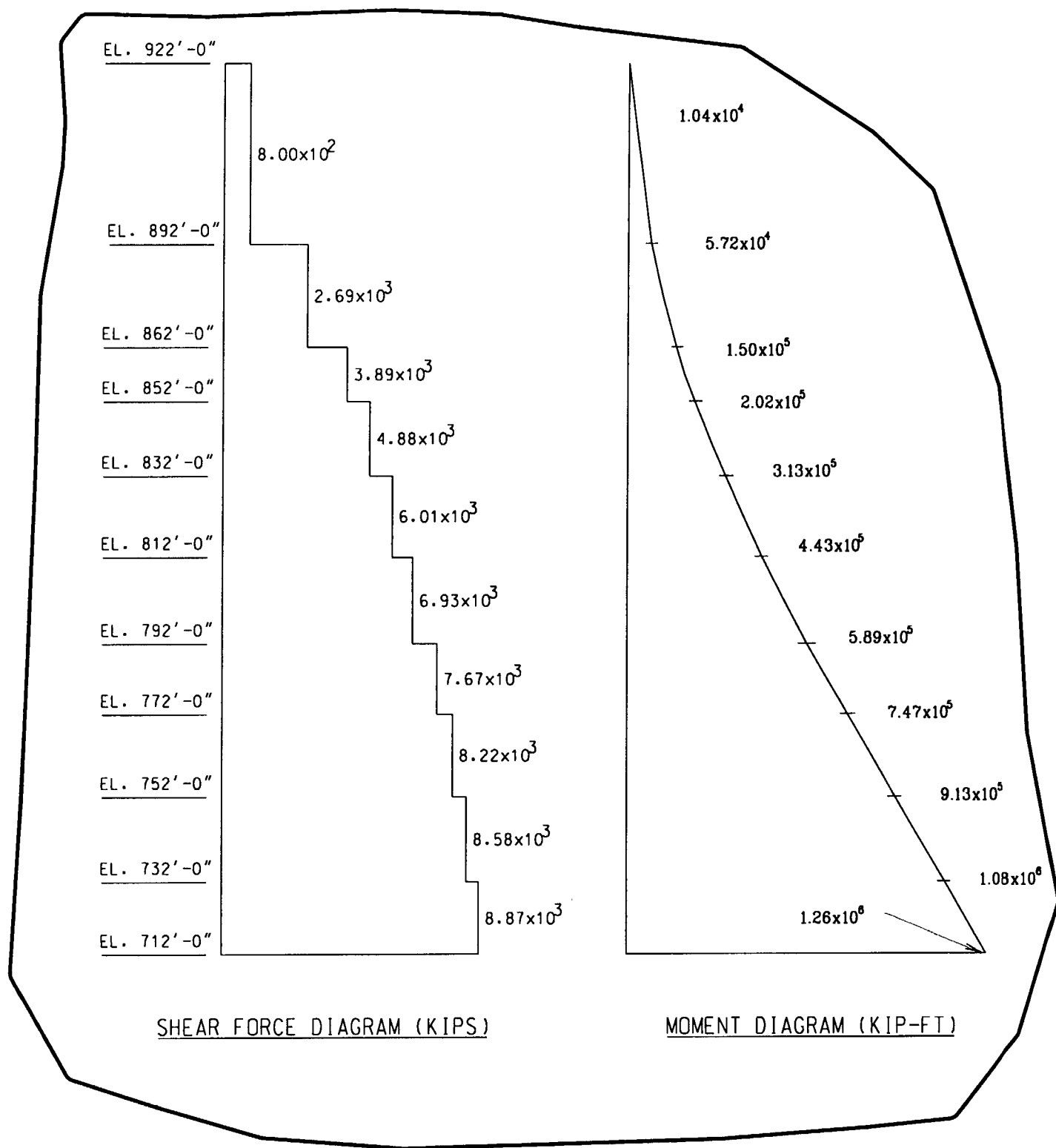
FIGURE 3.7-30

CONTAINMENT BUILDING
 HORIZONTAL MODEL



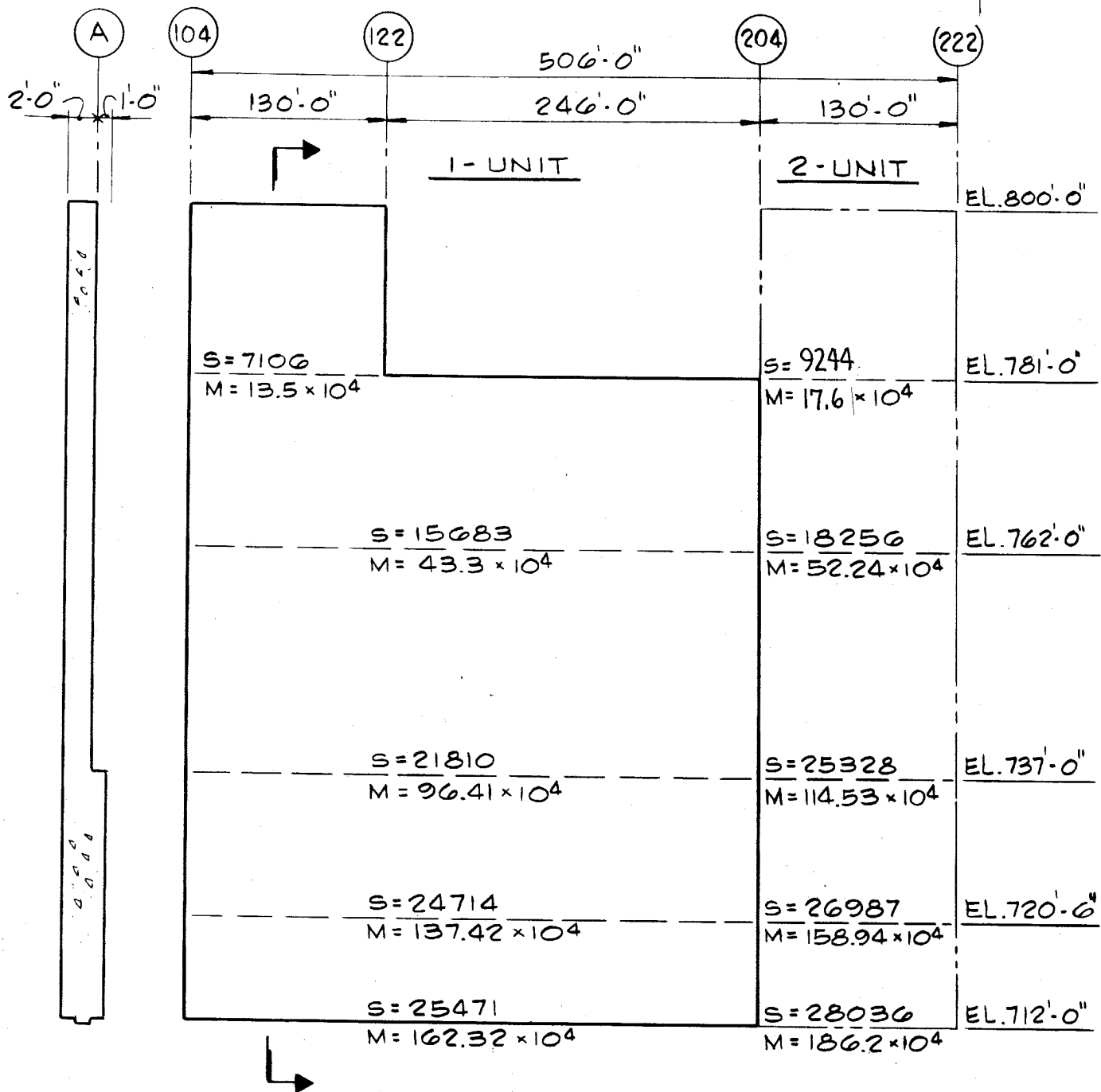
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FIGURE 3.7-31
SEISMIC RESPONSE LOADS (E-W)
FOR SSE FOR THE CONTAINMENT



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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:

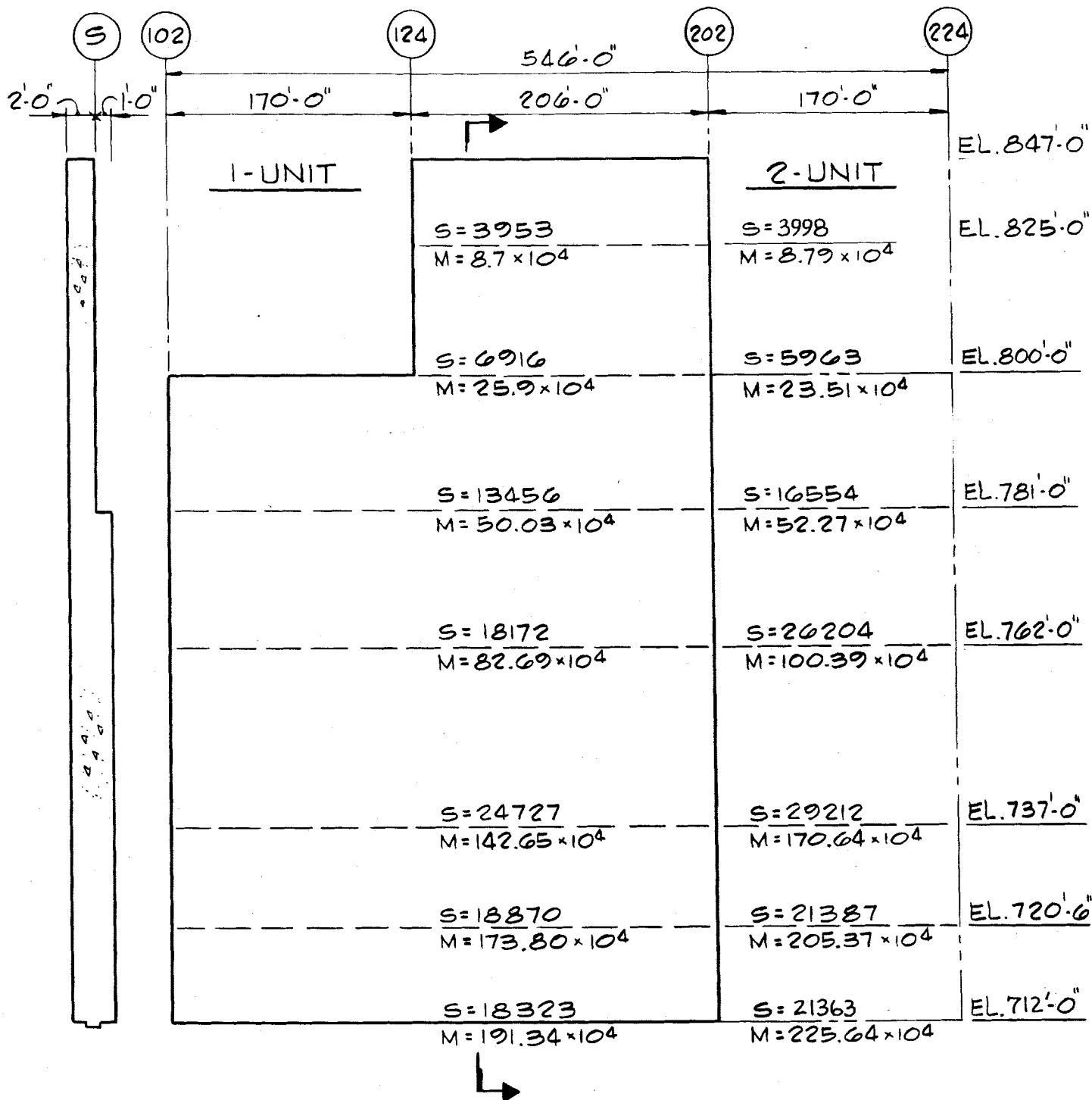
1. "S" DENOTES SHEAR FORCE (KIPS)
- "M" DENOTES OVERTURNING MOMENTS (KIP-FT.)
2. SHEAR FORCES AND MOMENTS SHOWN ARE FOR SSE LOADING.

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:

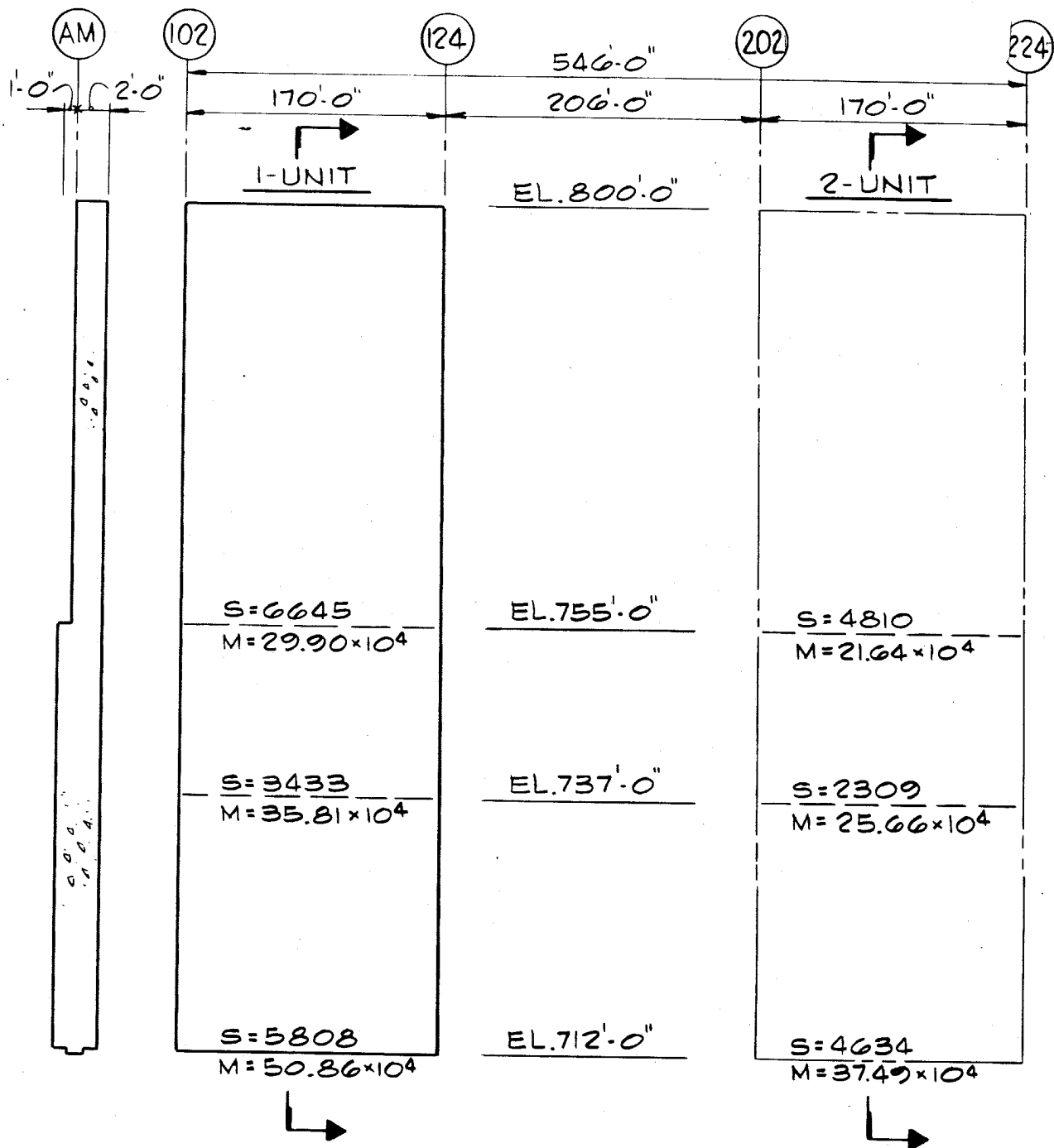
1. "S" DENOTES SHEAR FORCE (KIPS)
- "M" DENOTES OVERTURNING MOMENTS (KIP-FT.)
2. SHEAR FORCES AND MOMENTS SHOWN ARE FOR SSE LOADING.

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"

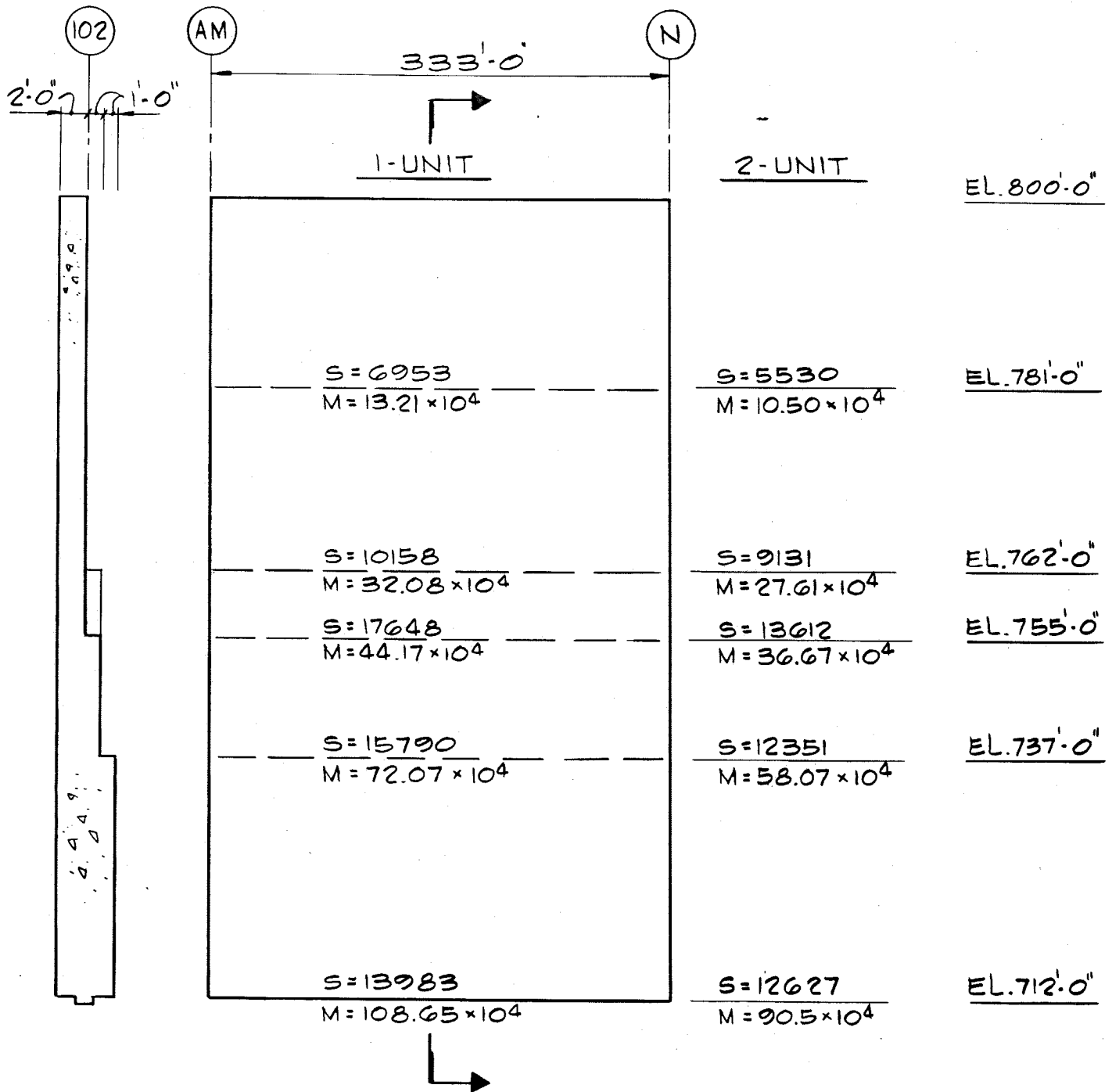
- NOTES:
1. "S" DENOTES SHEAR FORCE (KIPS)
 2. "M" DENOTES OVERTAKING MOMENTS (KIP-FT.)
 3. SHEAR FORCES AND MOMENTS SHOWN ARE FOR SSE LOADING.

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:

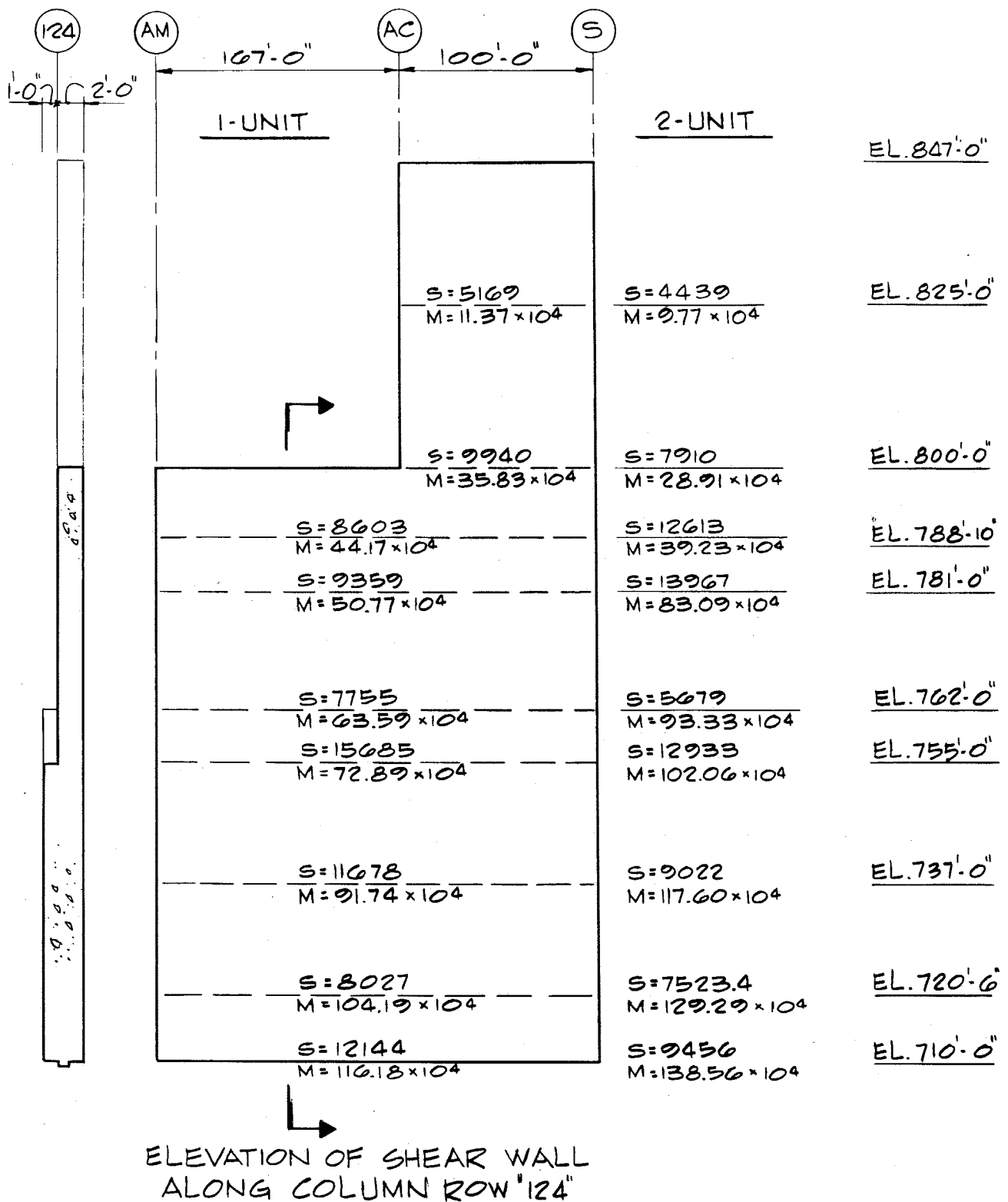
- "S" DENOTES SHEAR FORCE (KIPS).
- "M" DENOTES OVERTURNING MOMENTS (KIP-FT.).
- SHEAR FORCES AND MOMENTS SHOWN ARE FOR SSE LOADING.

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:

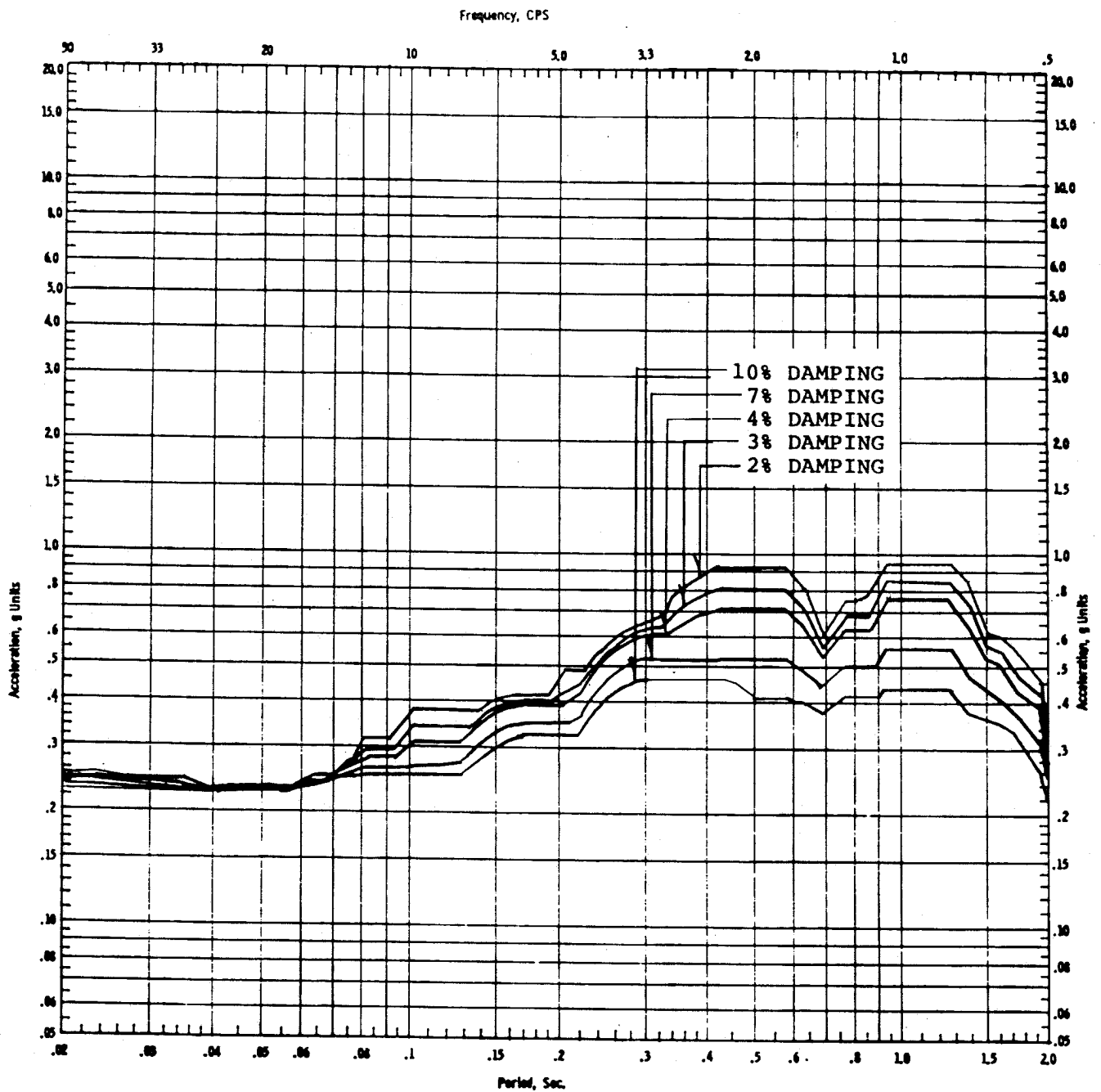
1. "S" DENOTES SHEAR FORCE (KIPS)
- "M" DENOTES OVERTURNING MOMENTS (KIP-FT.)
2. SHEAR FORCES AND MOMENTS SHOWN ARE FOR SSE LOADING.

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

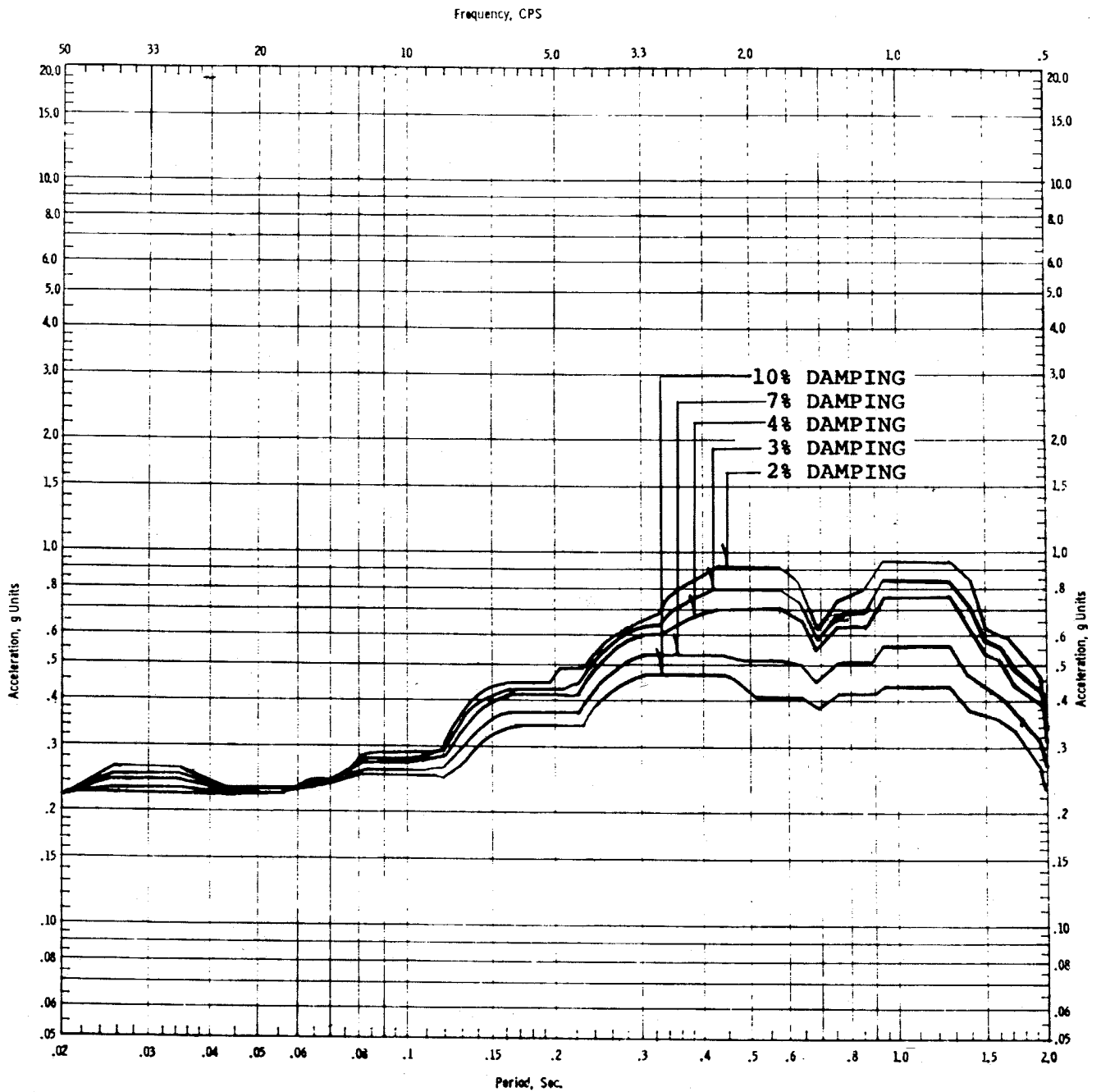
LOCATION: Aux., Fuel, Control, Diesel,
Radwaste & Turbine Bldgs.

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.

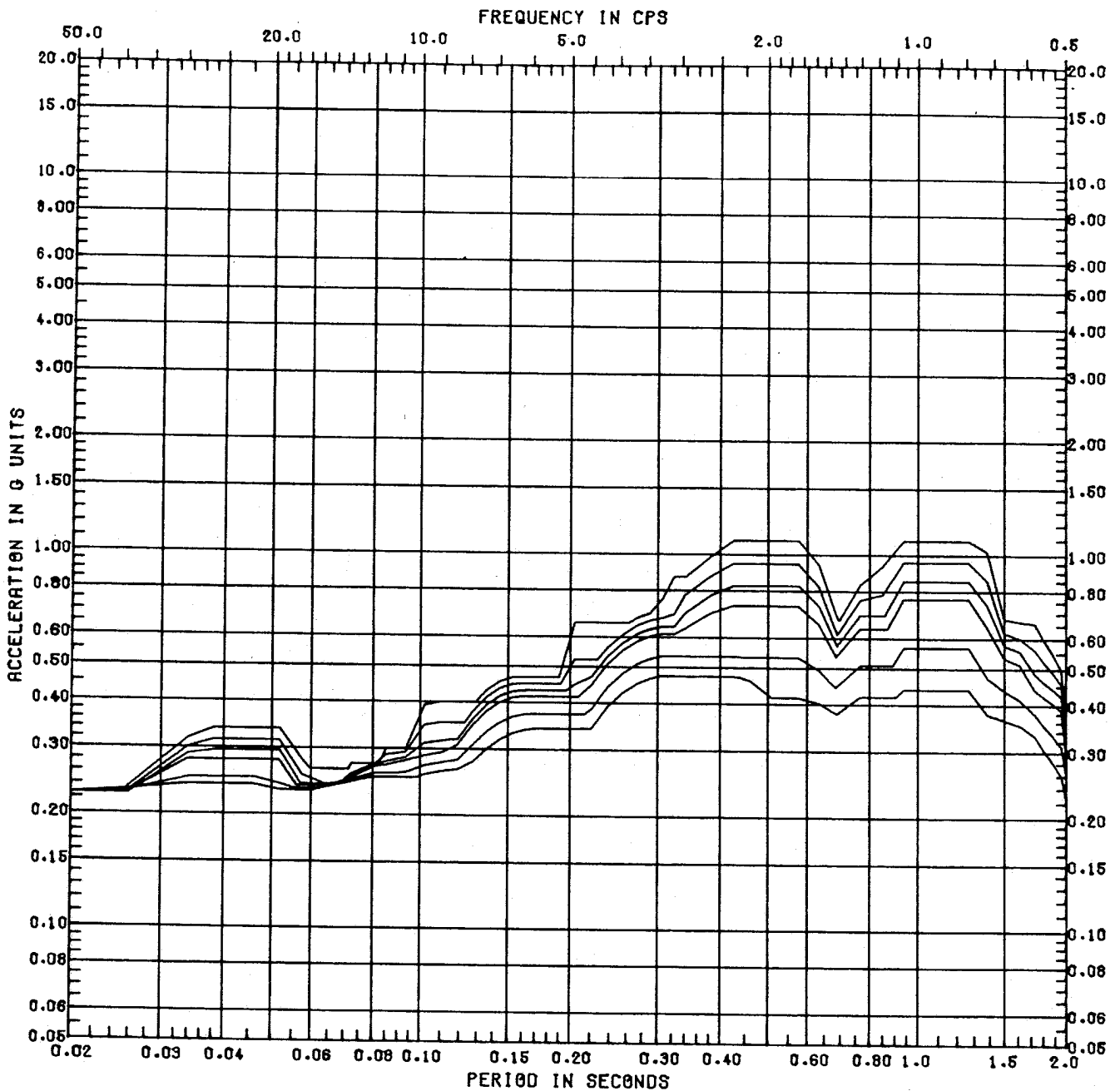
LOCATION: Aux., Fuel, Control,
 Diesel, Radwaste & Turbine
 Bldgs.
 ELEVATION:

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)

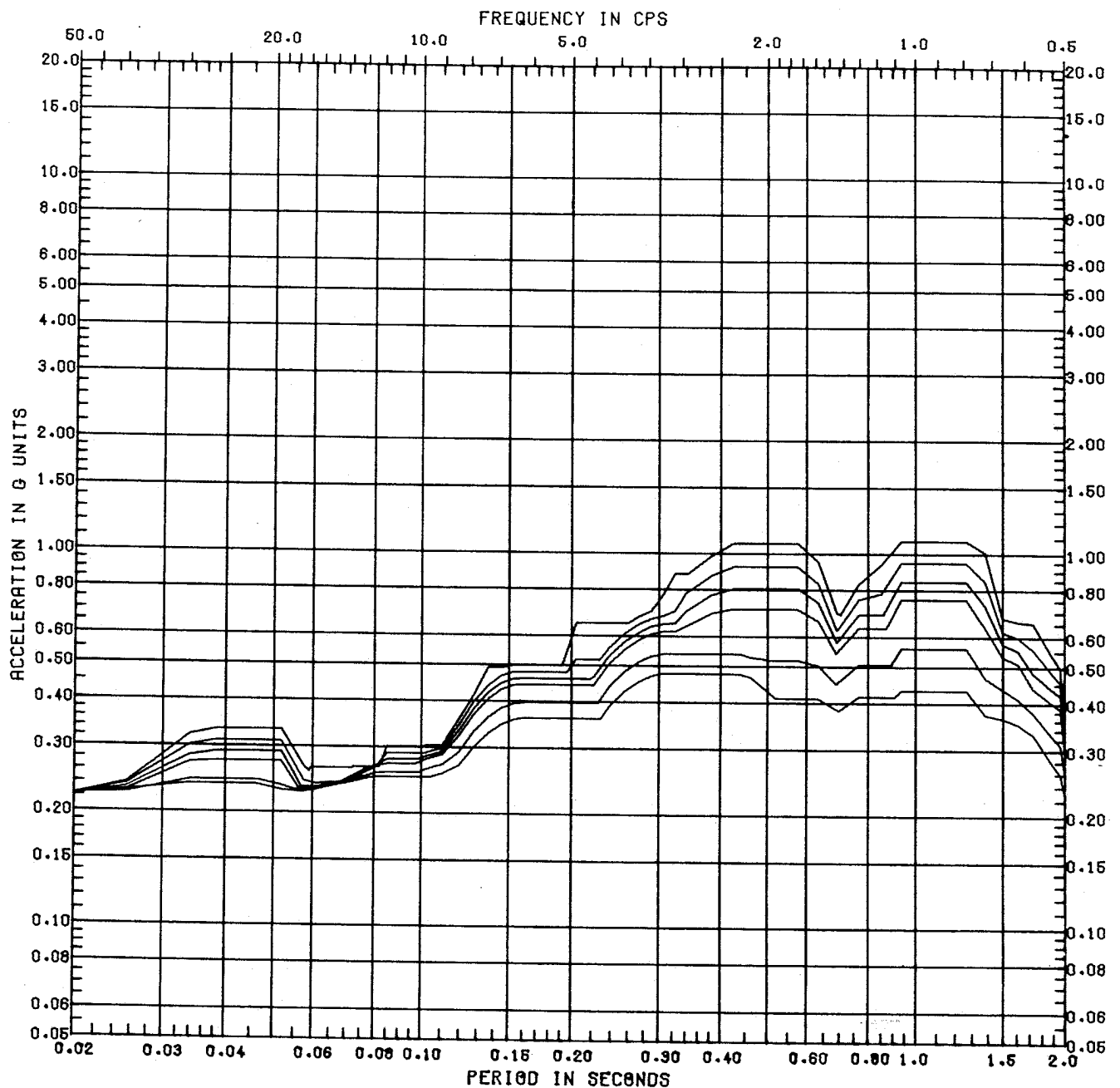
SPECTRA NO. 317-SS-EW
 322-SS-EW

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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)

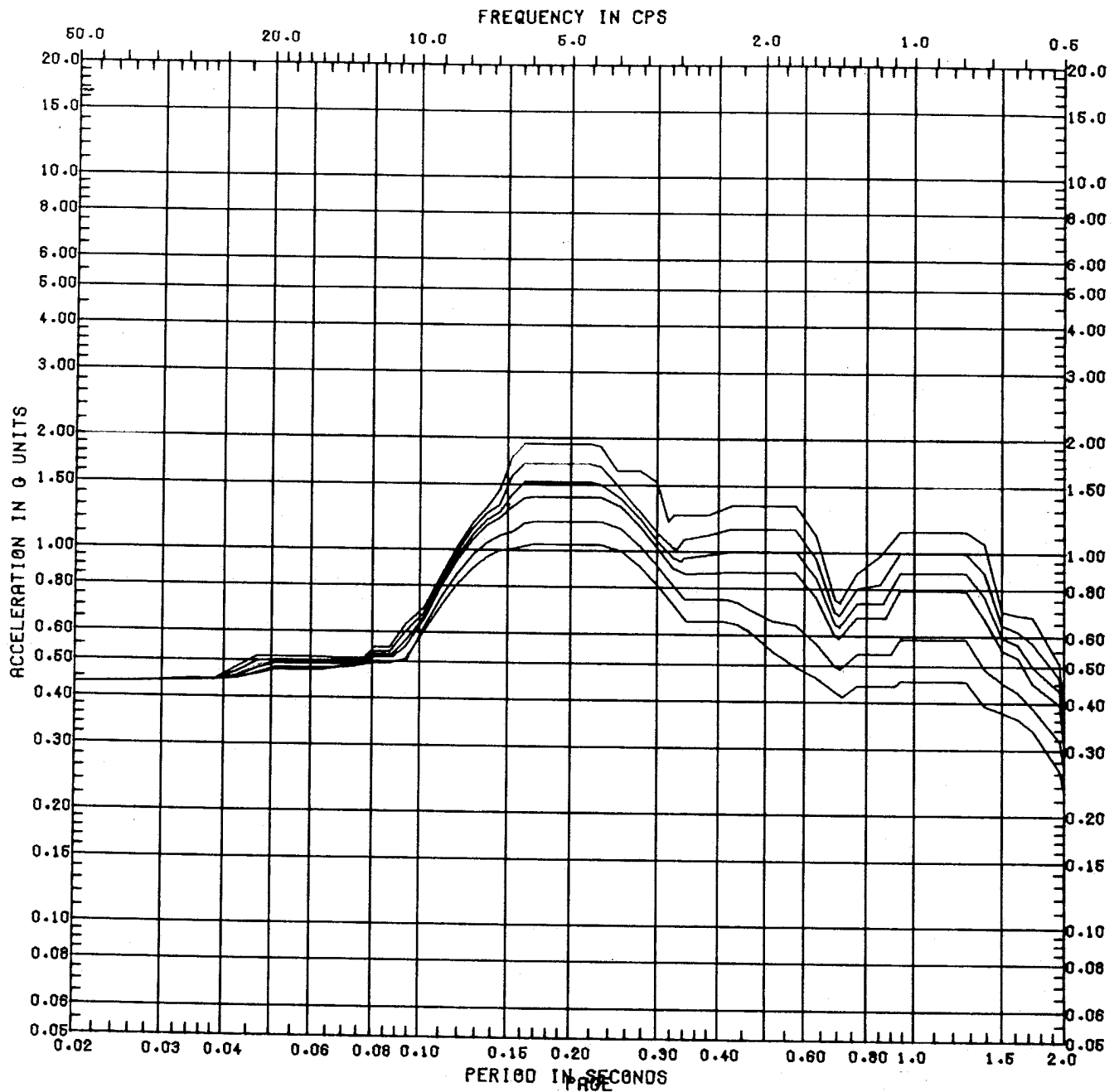
SPECTRA NO. 317-SS-NS
 322-SS-NS

REVISION NO. 02

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FIGURE 3.7-41

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



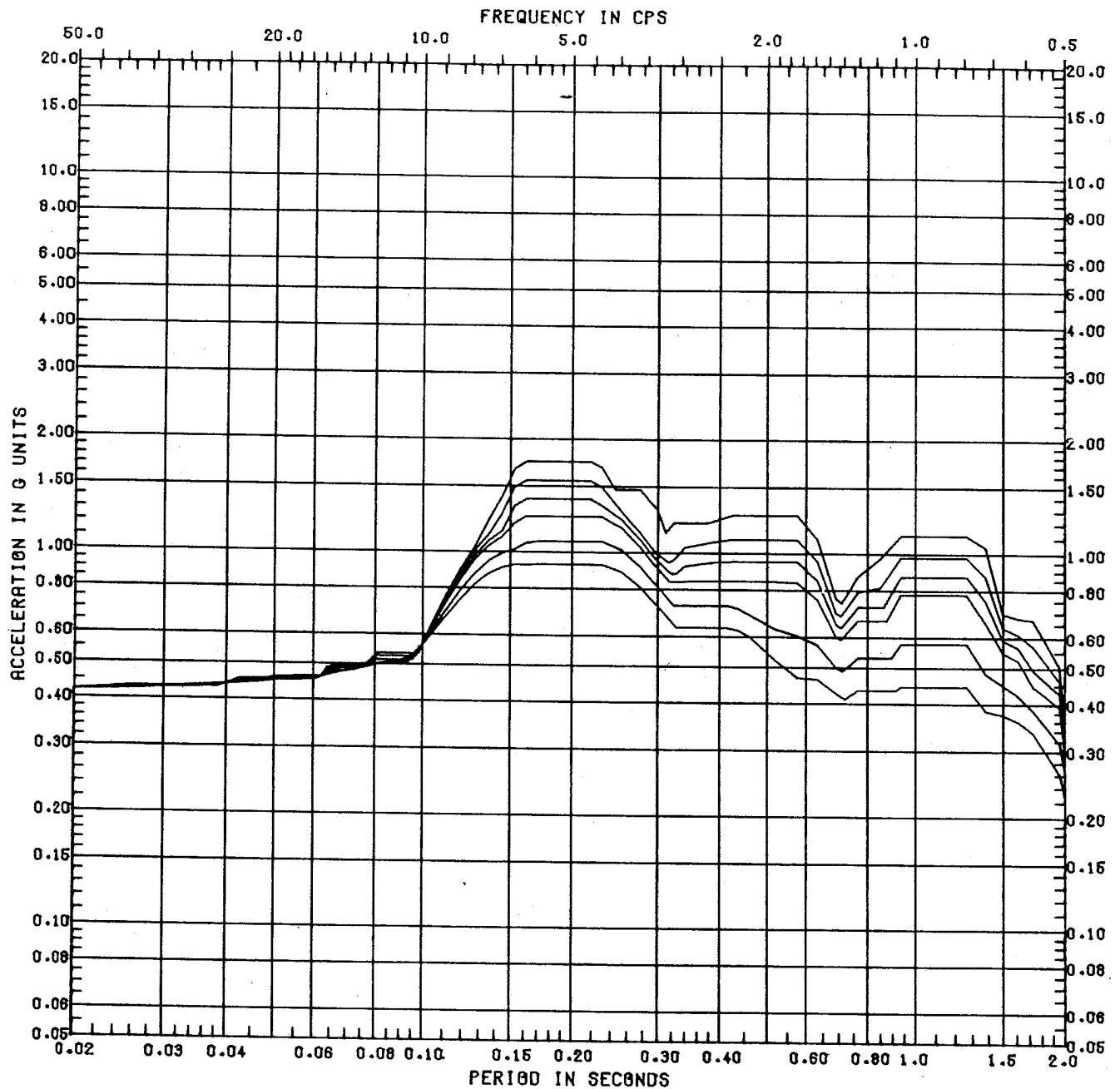
HORIZ. RESPONSE SPECTRA
 ELEVATION 803'-3", 828'-3"
 LOCATION Drywell

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

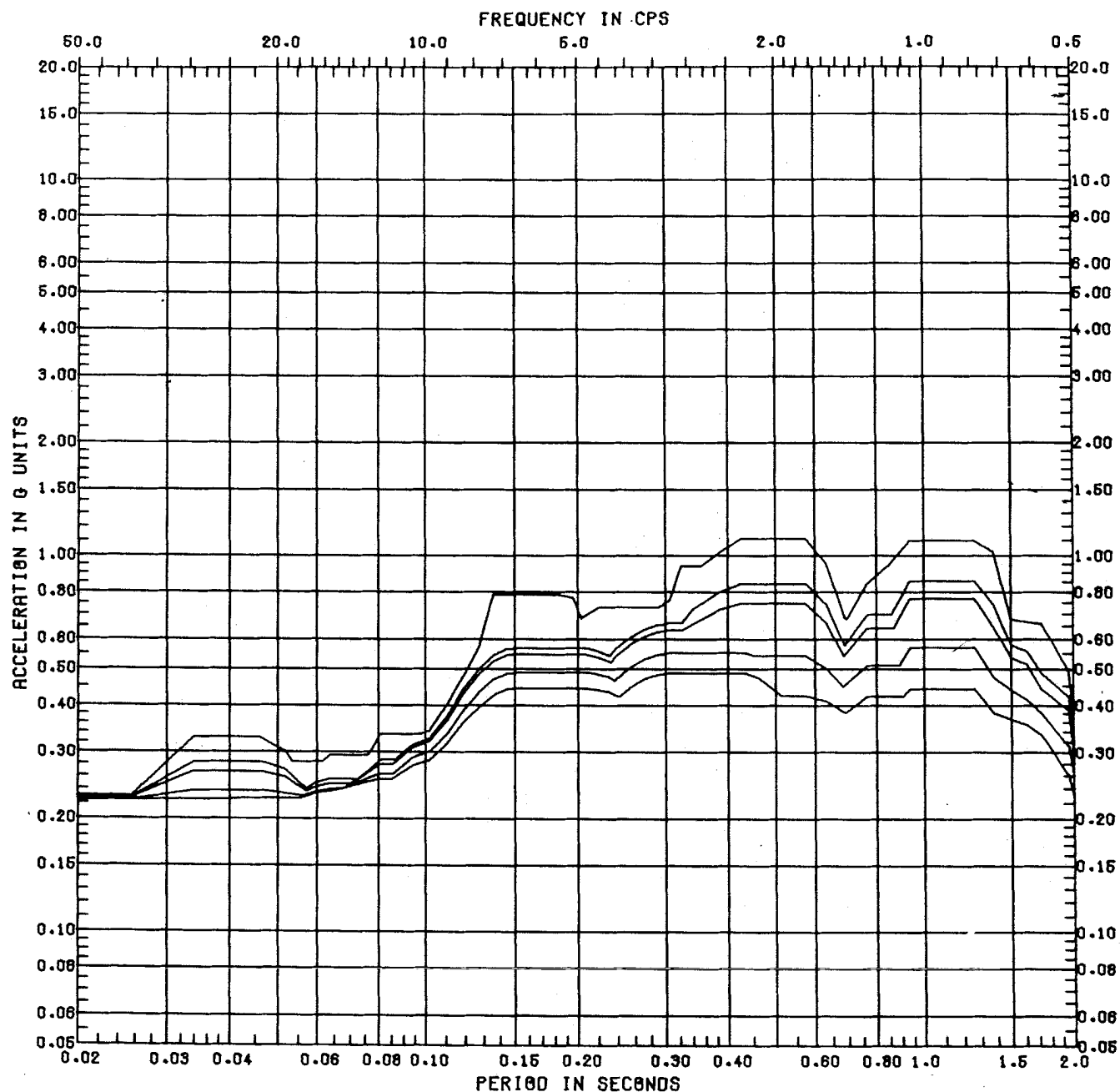
SPECTRA NO. 315-SS-NS
 316-SS-NS

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

ELEVATION 737'-0"

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

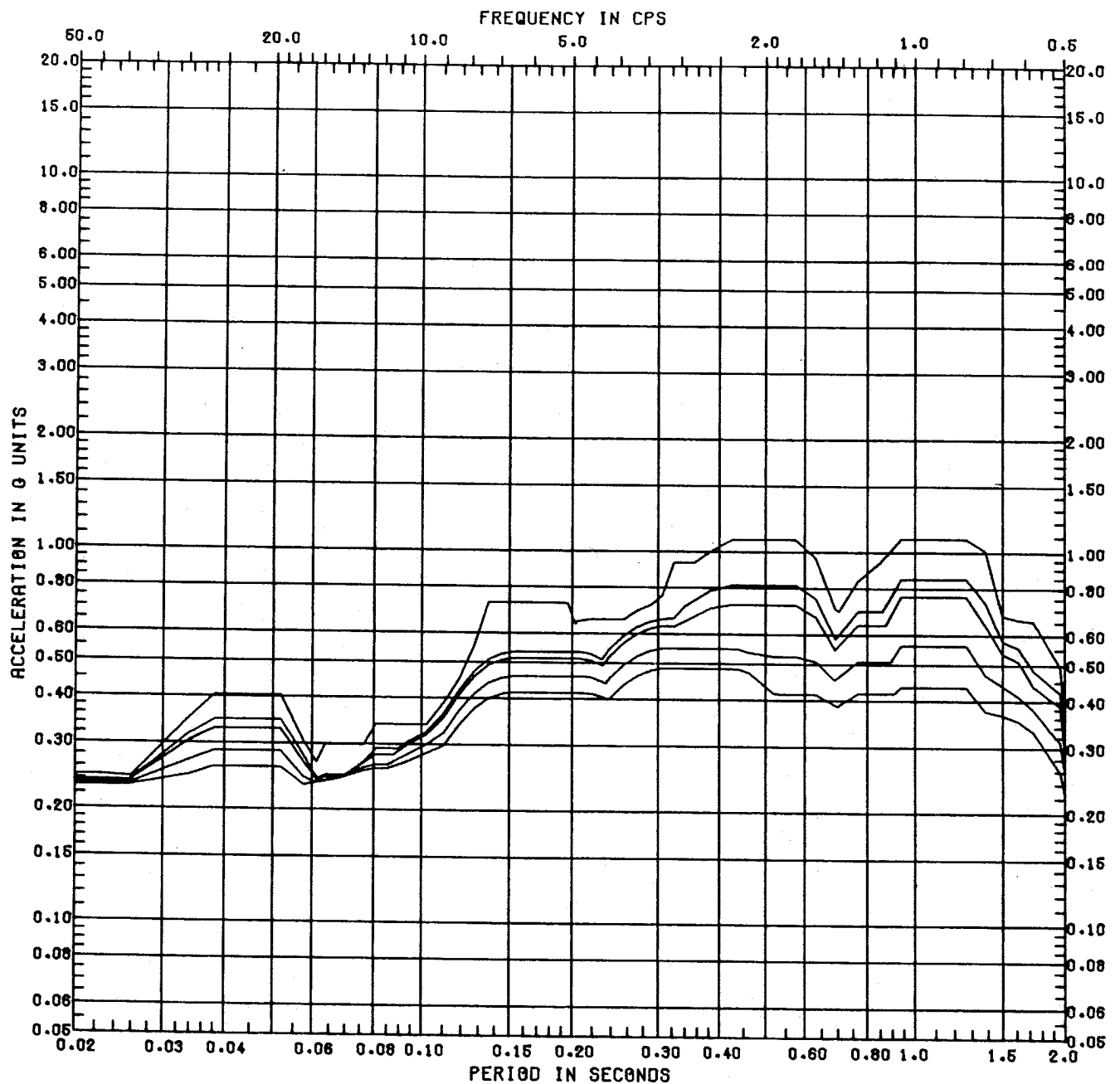
SPECTRA NO 102 to 102e-SS-EW
202-SS-EW

REVISION NO.02

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FIGURE 3.7-44

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



HORIZ. RESPONSE SPECTRA

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

ELEVATION 737'-0"

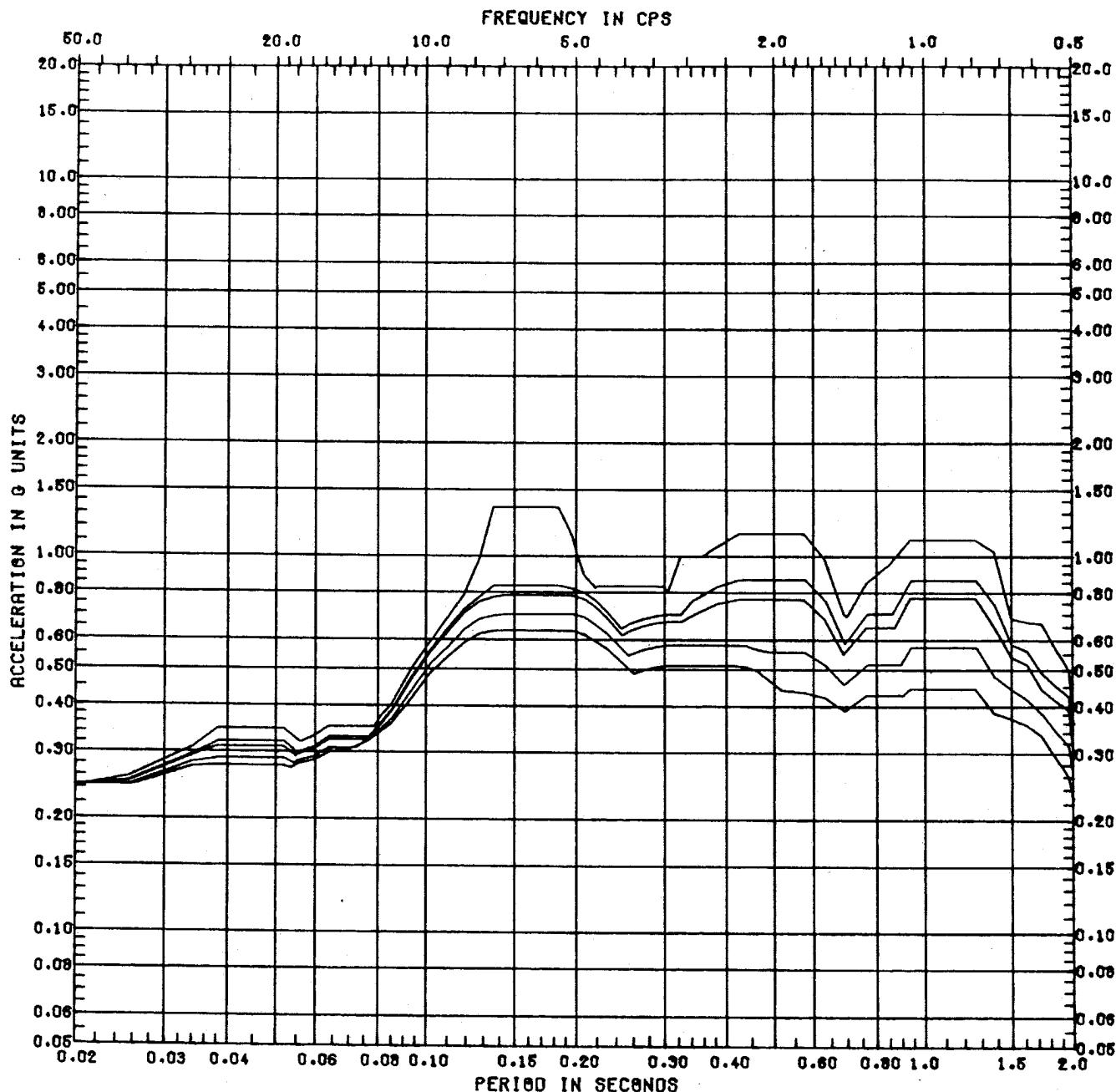
LOCATION Aux., Fuel, Control,
Diesel, Radwaste, & Turbine
Bldgs.

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.

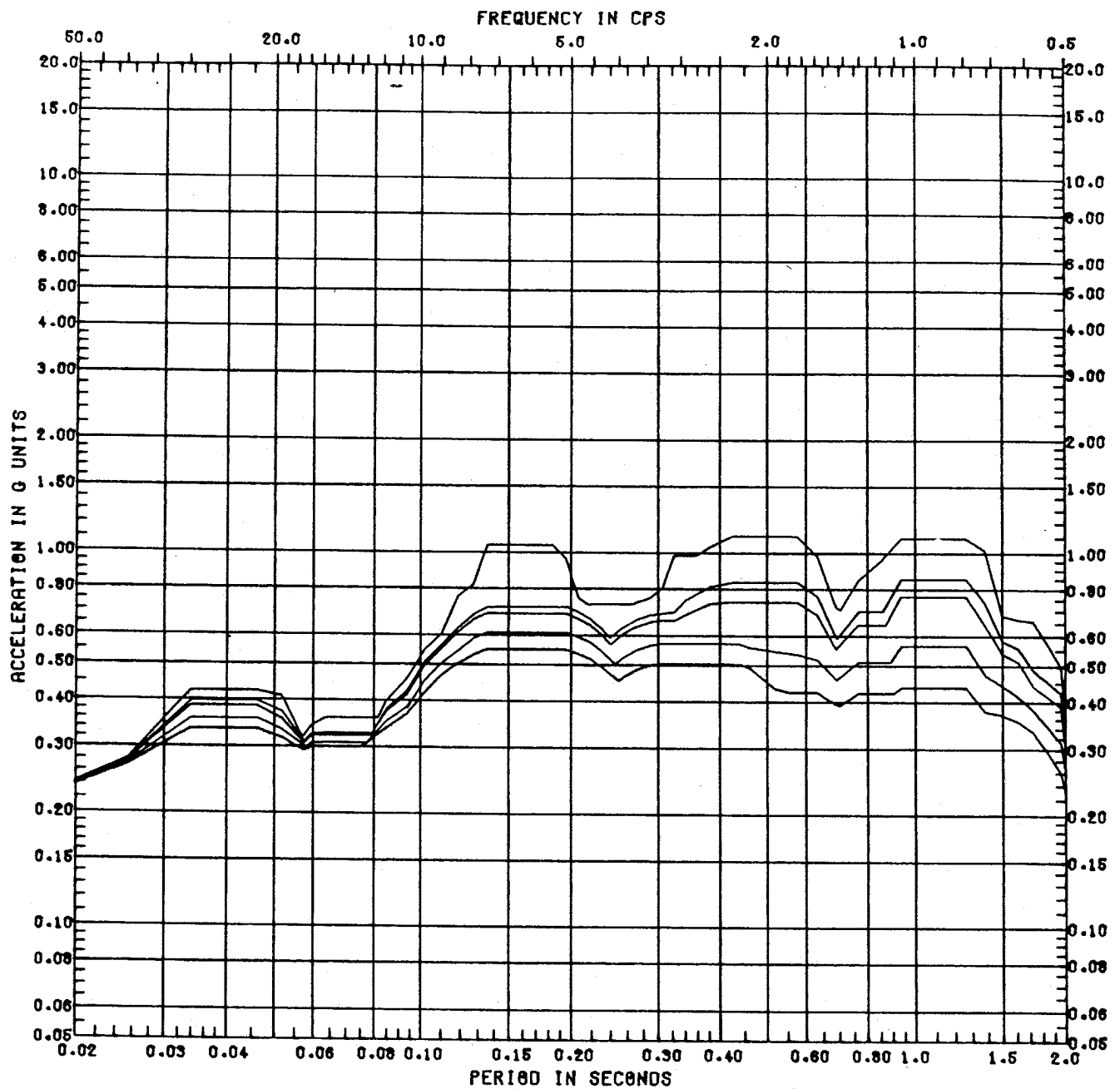
SPECTRA NO. 105 to 105d-SS-EW
205-SS-EW

REVISION NO. 02

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FIGURE 3.7-46

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



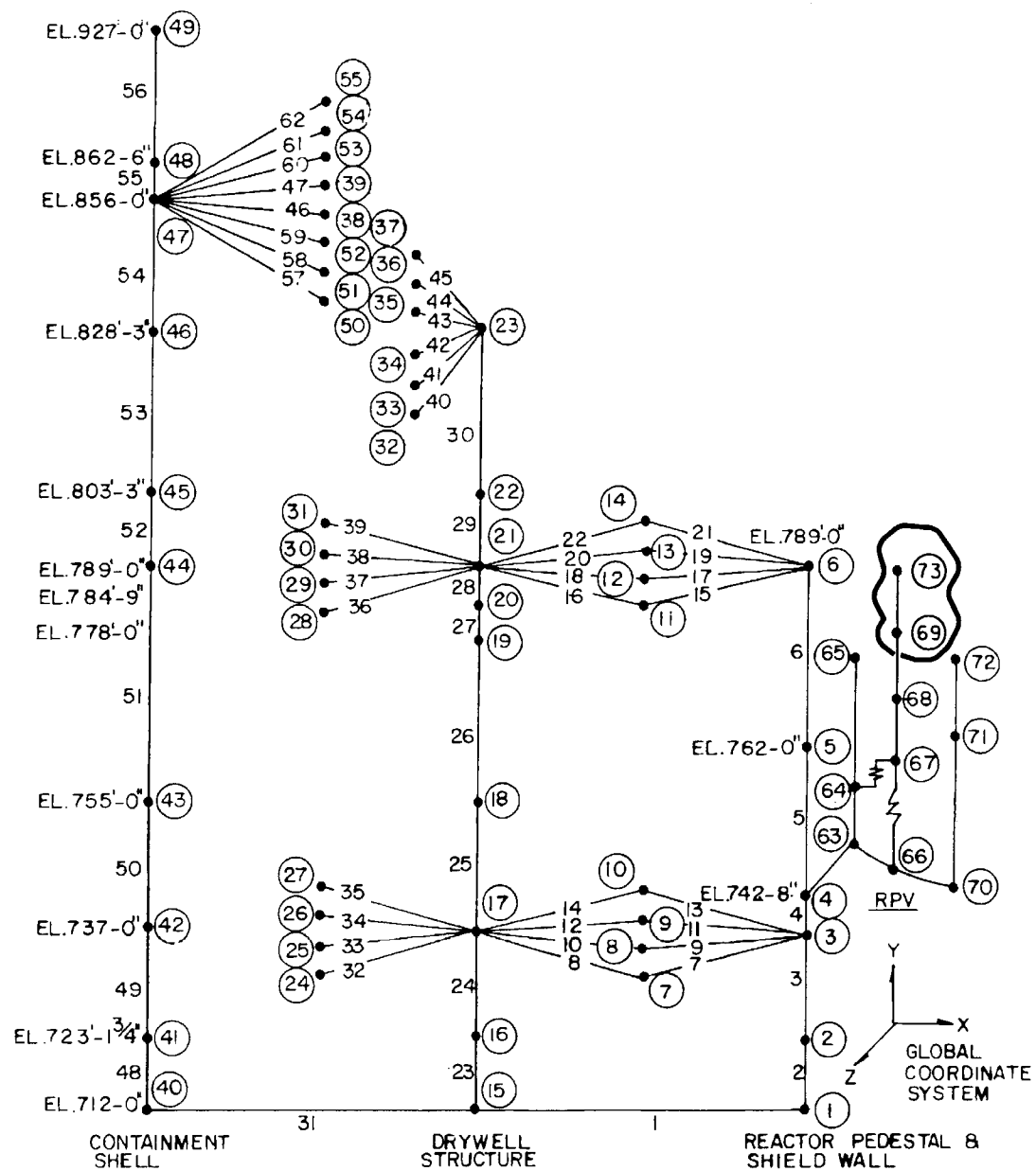
HORIZ. RESPONSE SPECTRA
 ELEVATION 762'-0"
 LOCATION Aux., Control, Diesel,
 Radwaste & Turbine Bldgs

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

CLINTON POWER STATION
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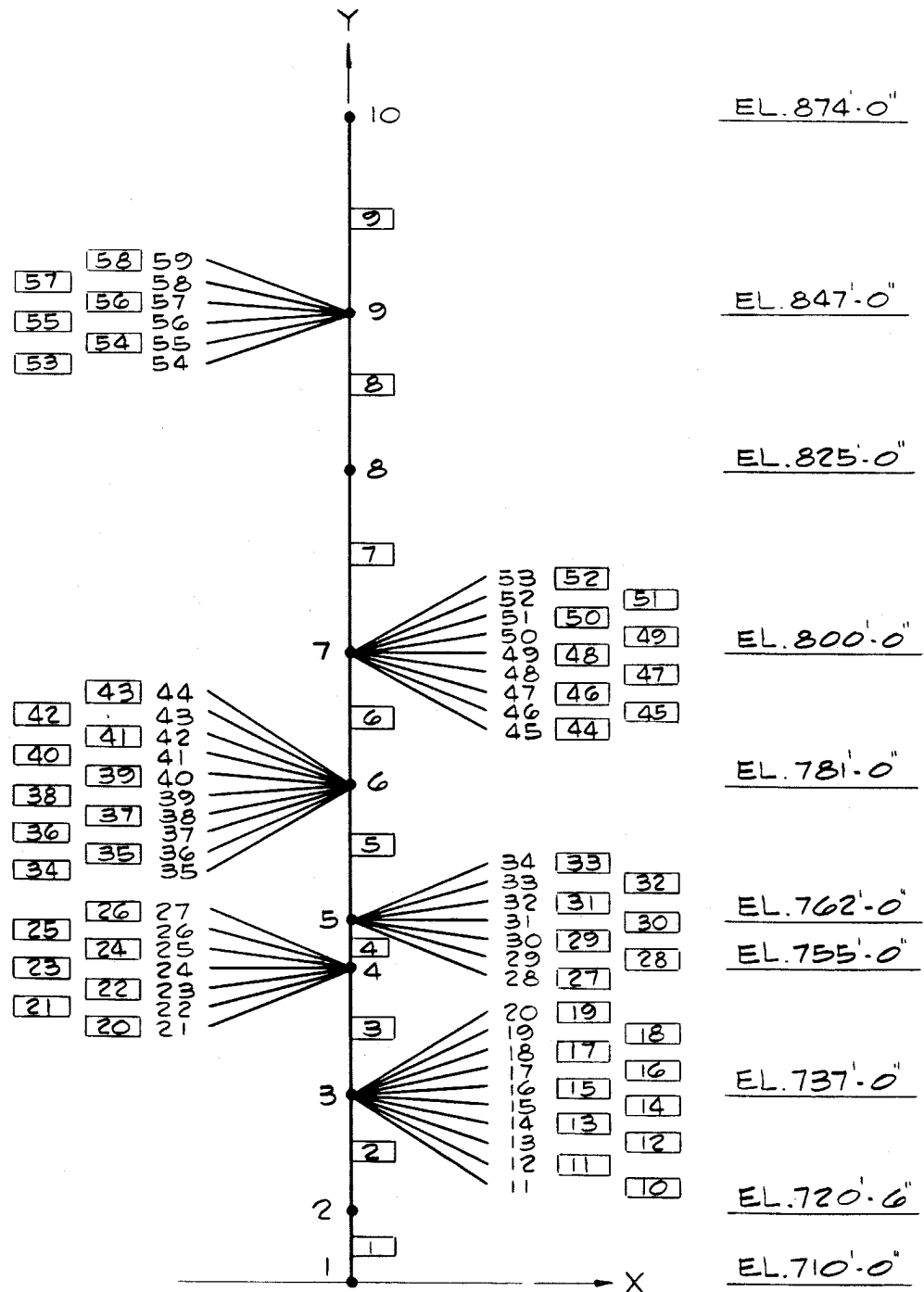
FIGURE 3.7-47

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



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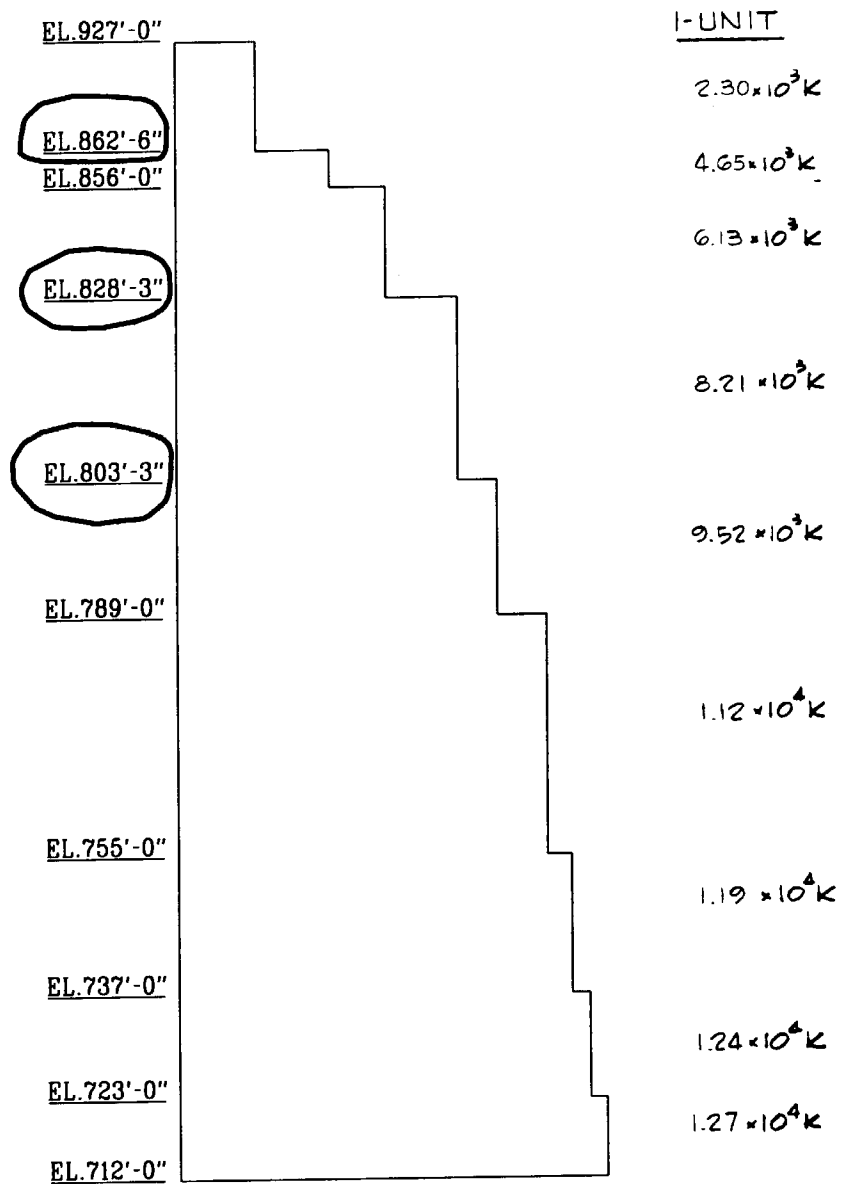
FIGURE 3.7-48
CONTAINMENT BUILDING
MODEL FOR VERTICAL EXCITATION



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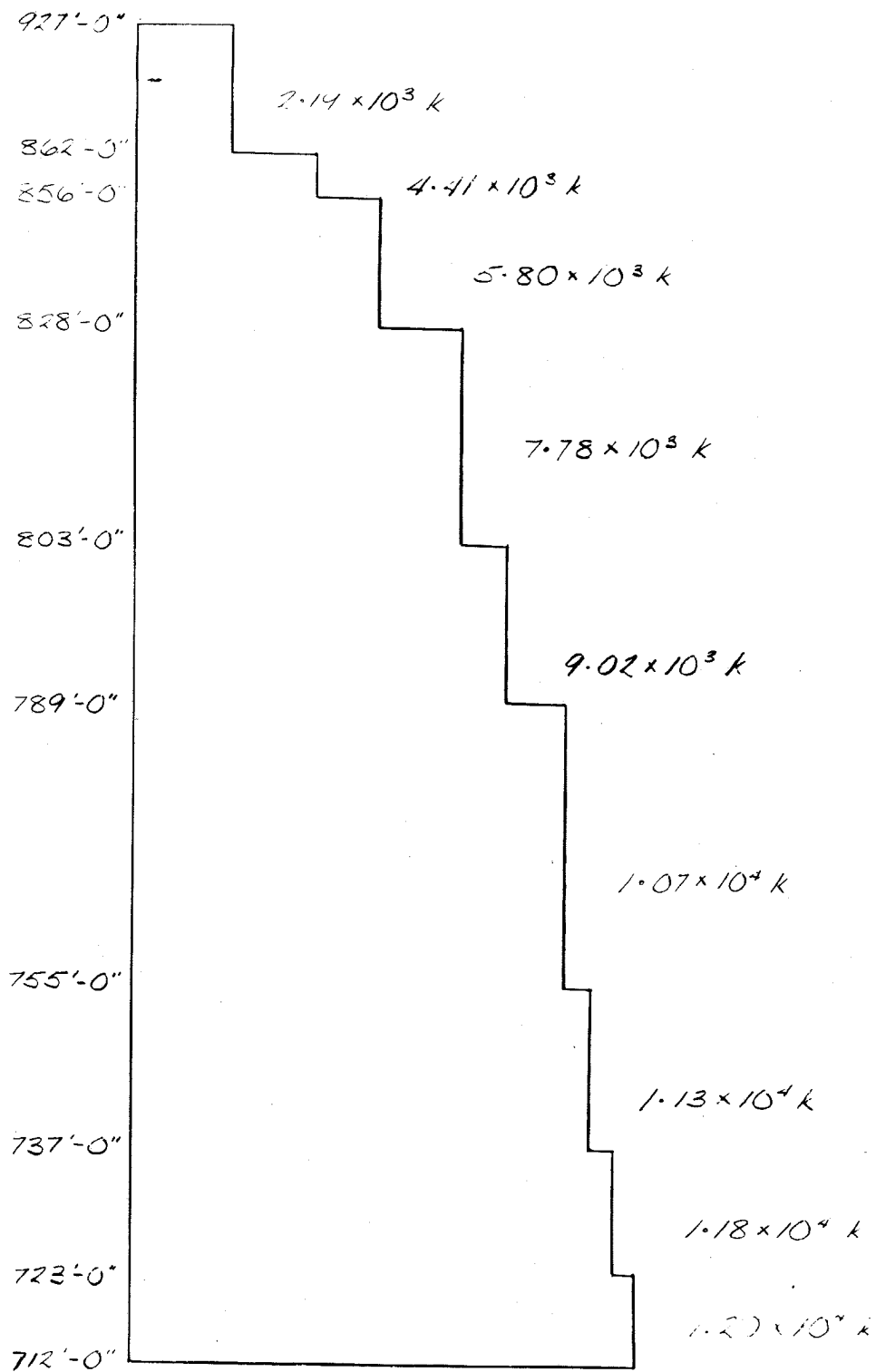
FIGURE 3.7-49

MAIN BUILDING MODEL
FOR VERTICAL EXCITATION



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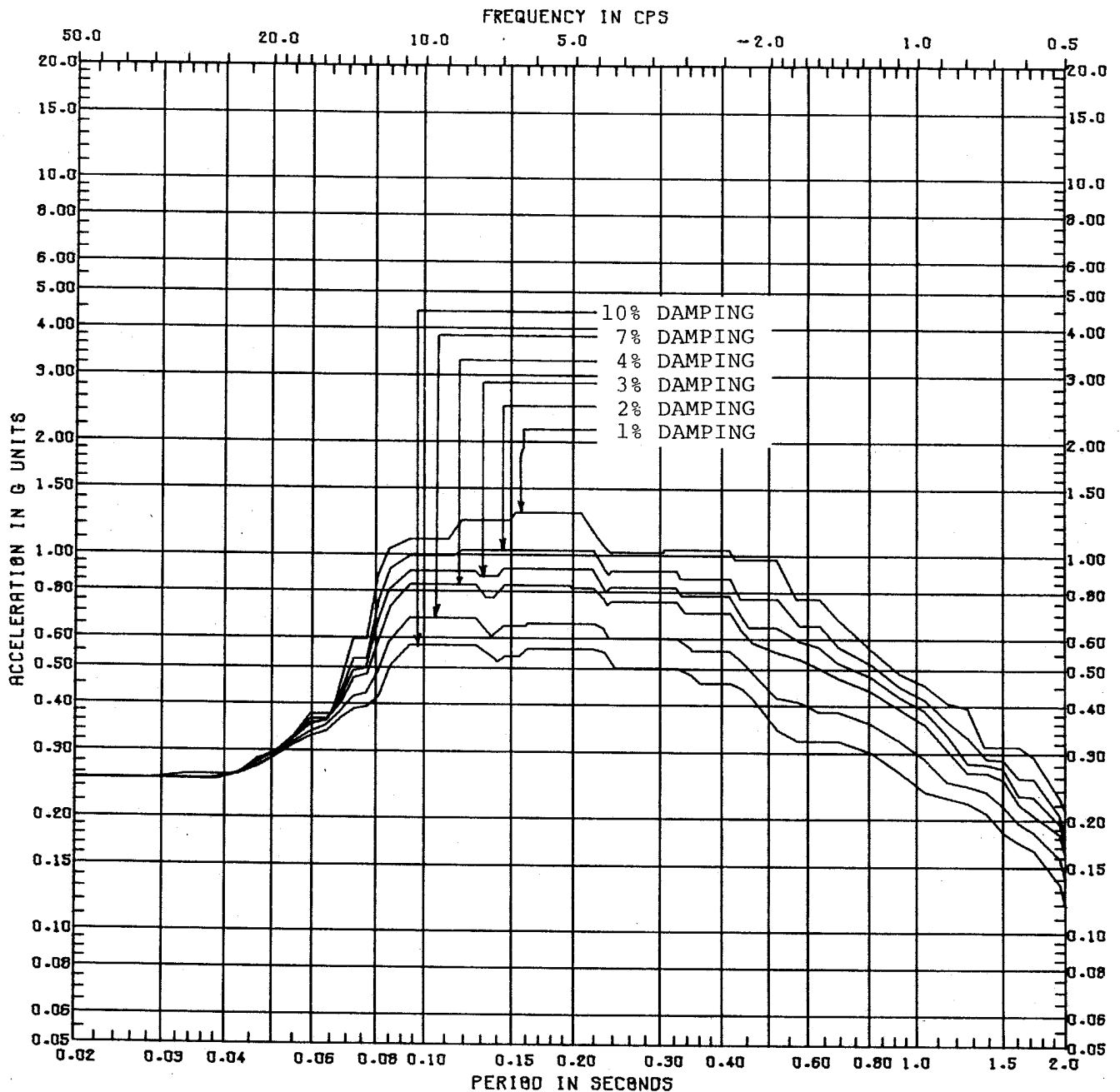
FIGURE 3.7-50
SEISMIC SSE LOAD FOR AXIAL
FORCES FOR CONTAINMENT-1-UNIT



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

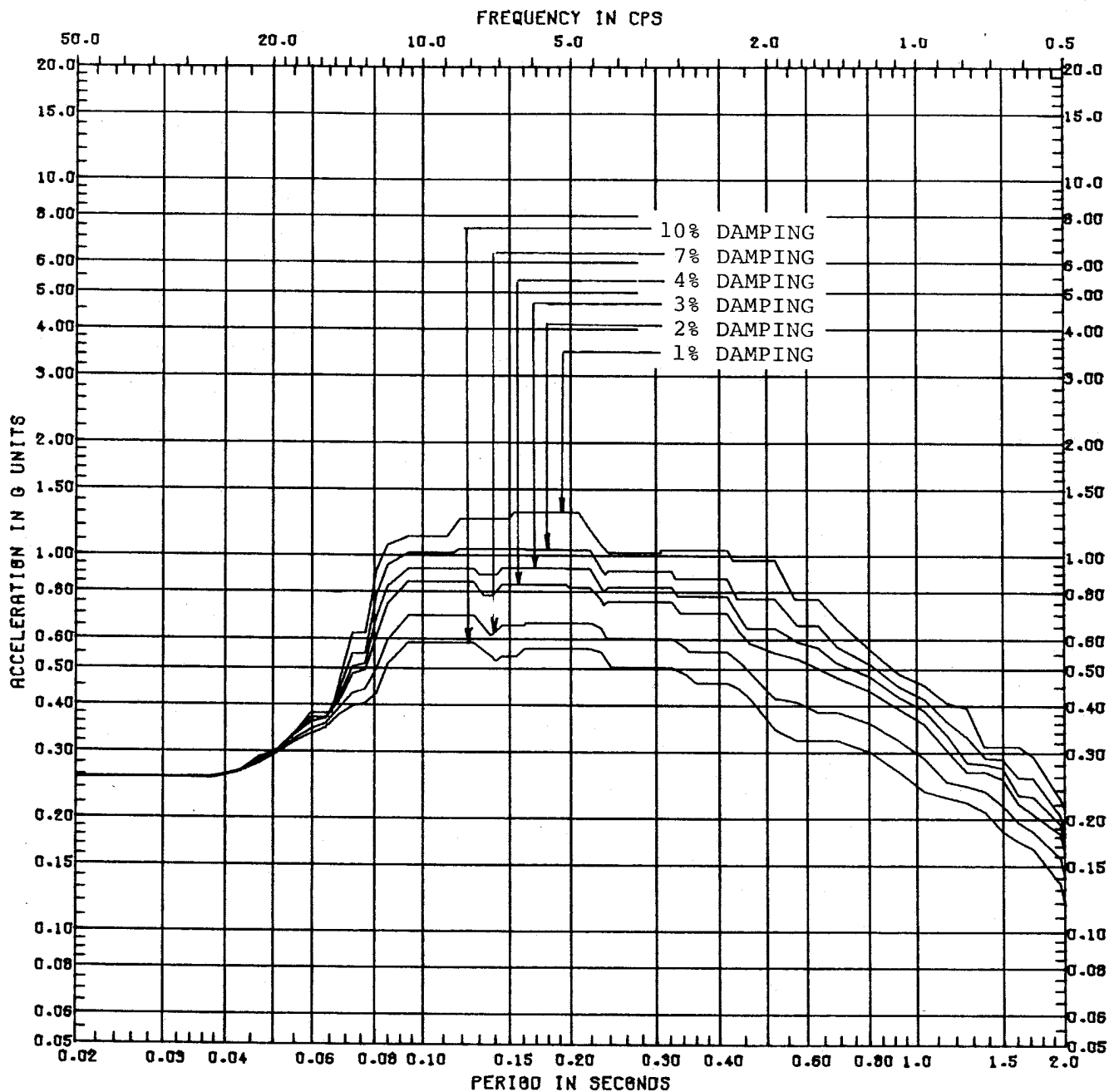
LOCATION Aux., Fuel, Control, Diesel,
Radwaste & Turbine Bldgs.

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FIGURE 3.7-52

VERTICAL SSE RESPONSE SPECTRA
AT BASE MAT FLOOR



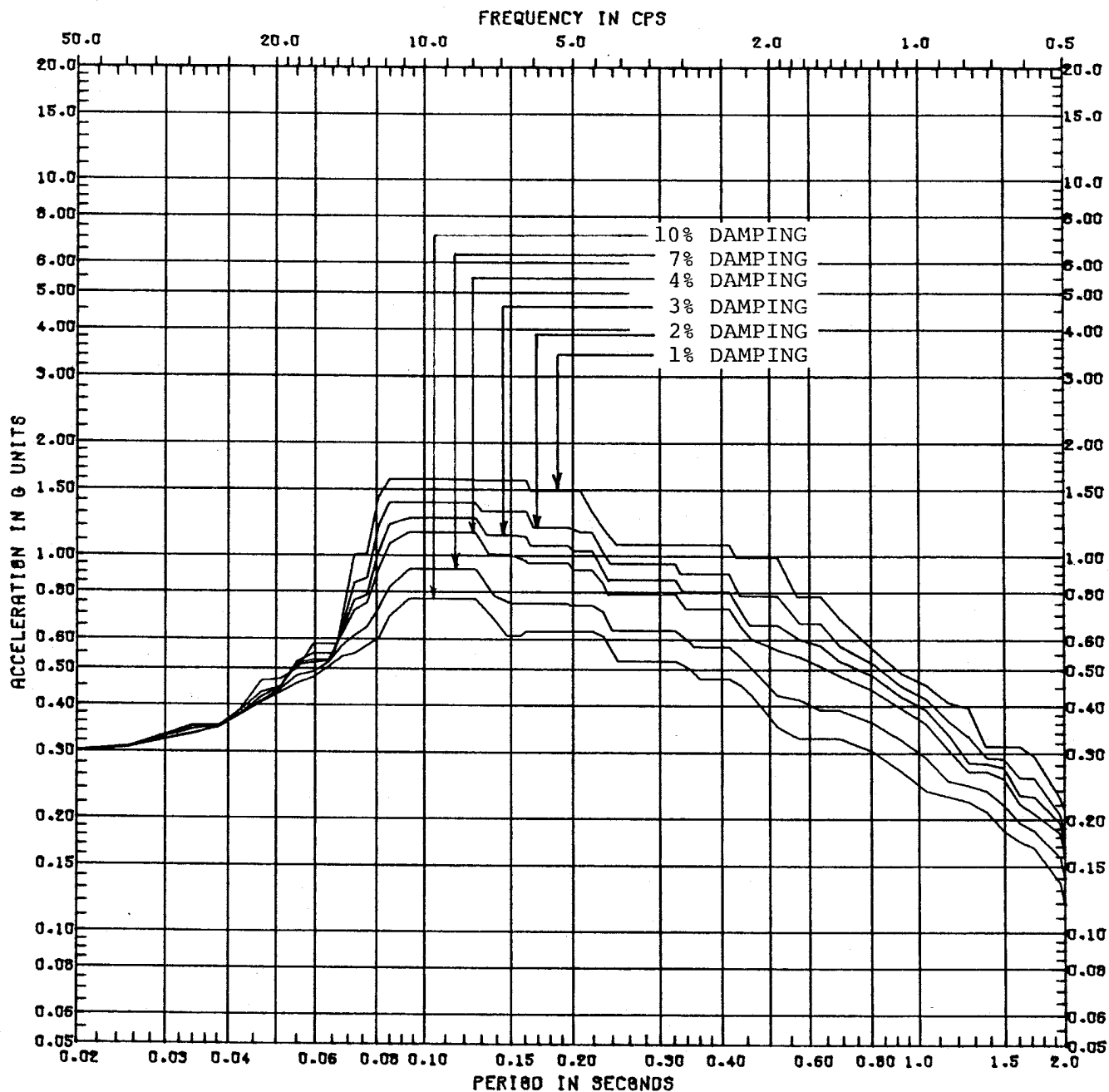
VERT RESPONSE SPECTRA
 ELEVATION 742'-8"
 LOCATION Sacrificial Shield,
 Pedestal, RPV Base

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

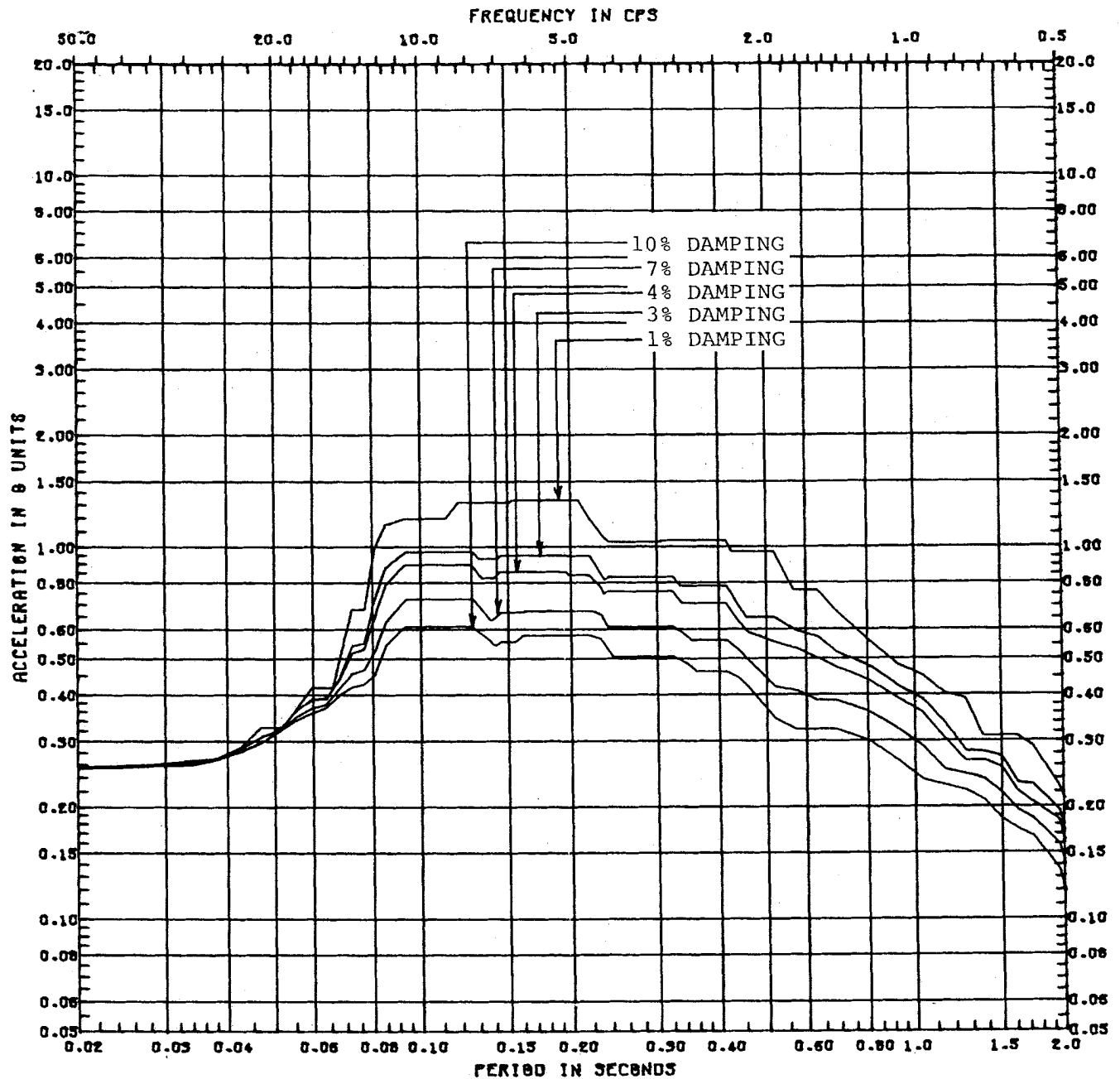
SPECTRA NO. 315-SS-VW

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

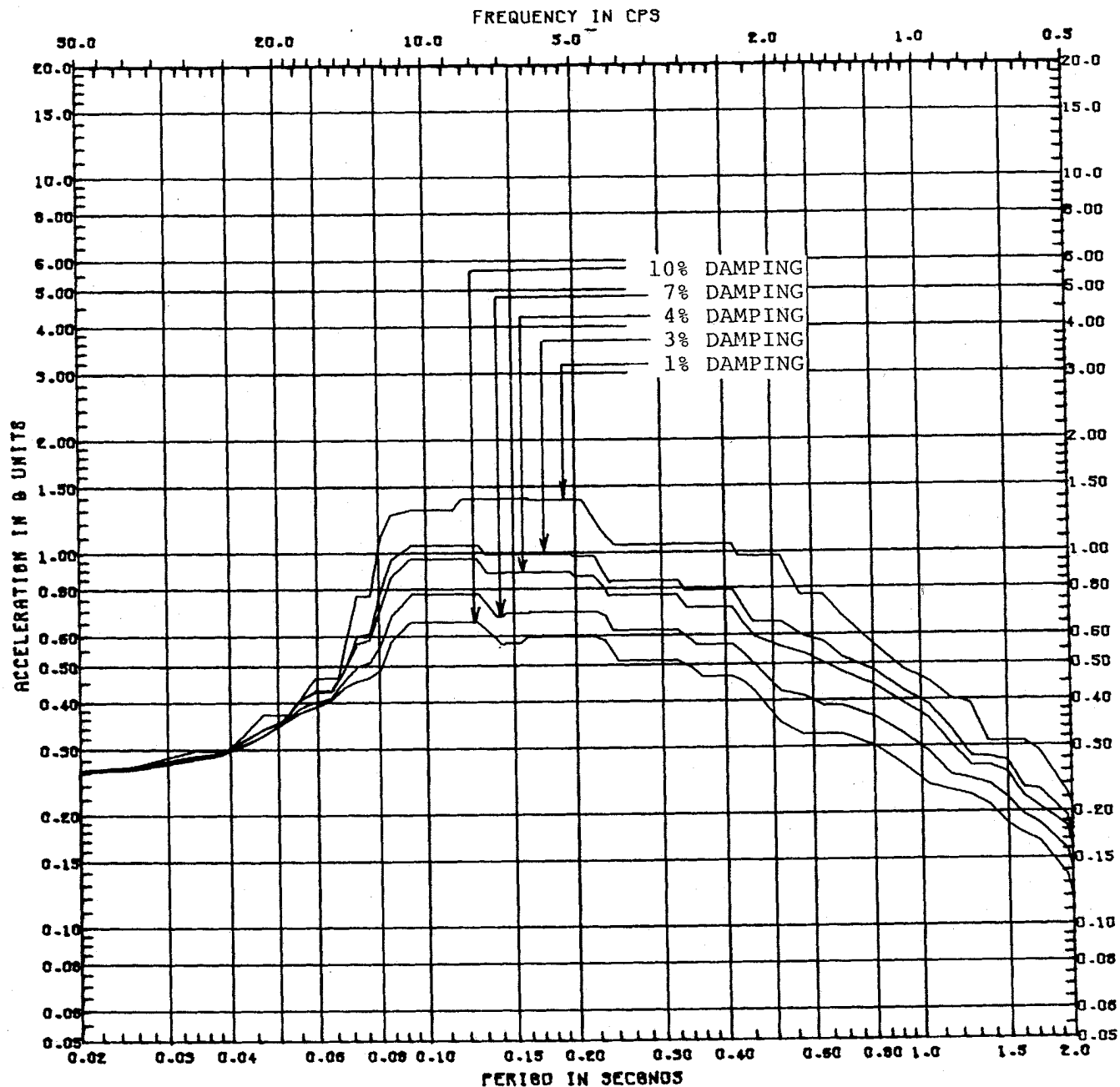
ELEVATION 737'-0"

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



VERT RESPONSE SPECTRA

ELEVATION 762'-0"

LOCATION Aux., Control, Radwaste,
Diesel Bldgs.

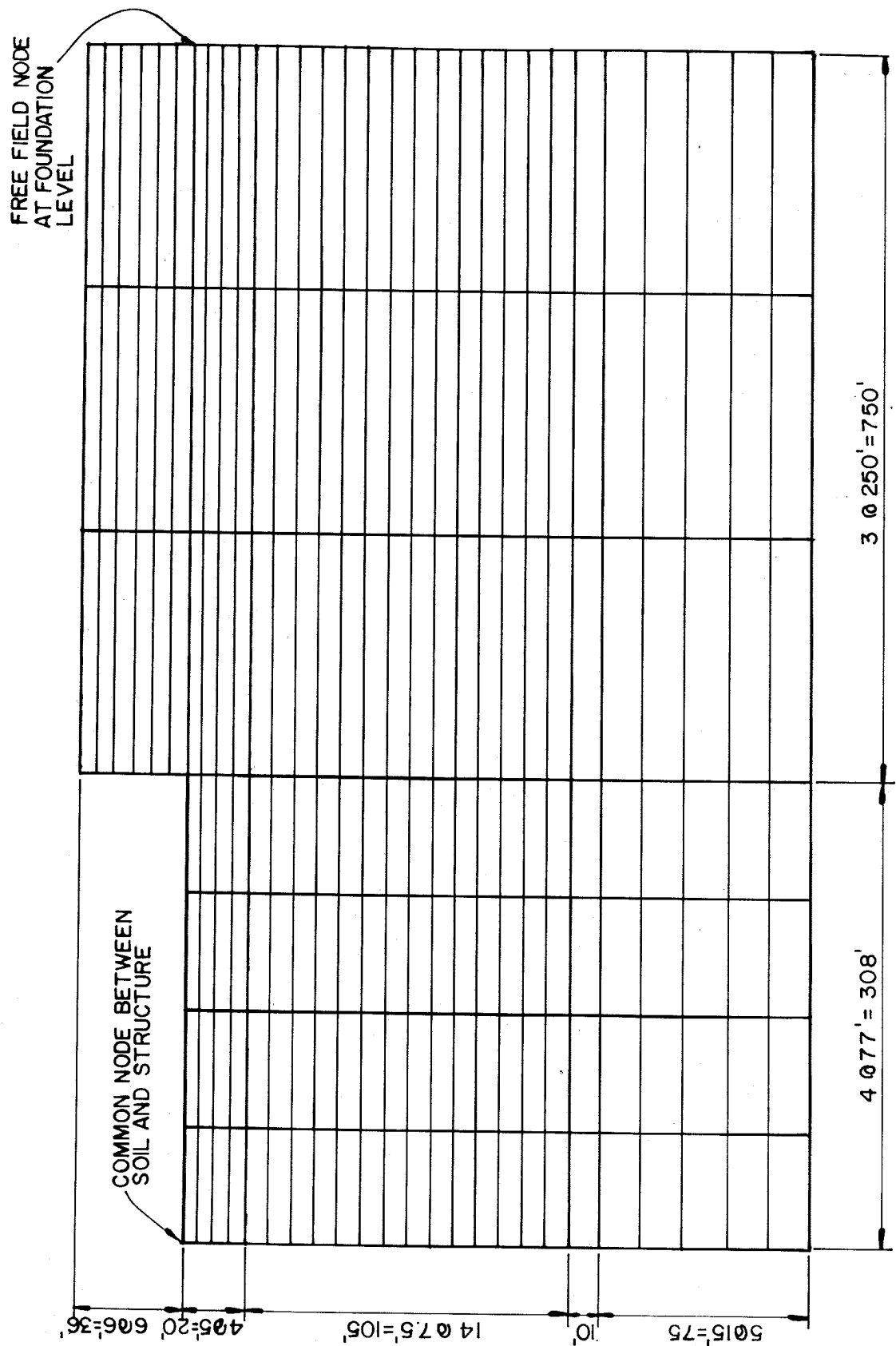
SPECTRA NO. 105 to 105d-SS-VW

REVISION NO. 05

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FIGURE 3.7-56

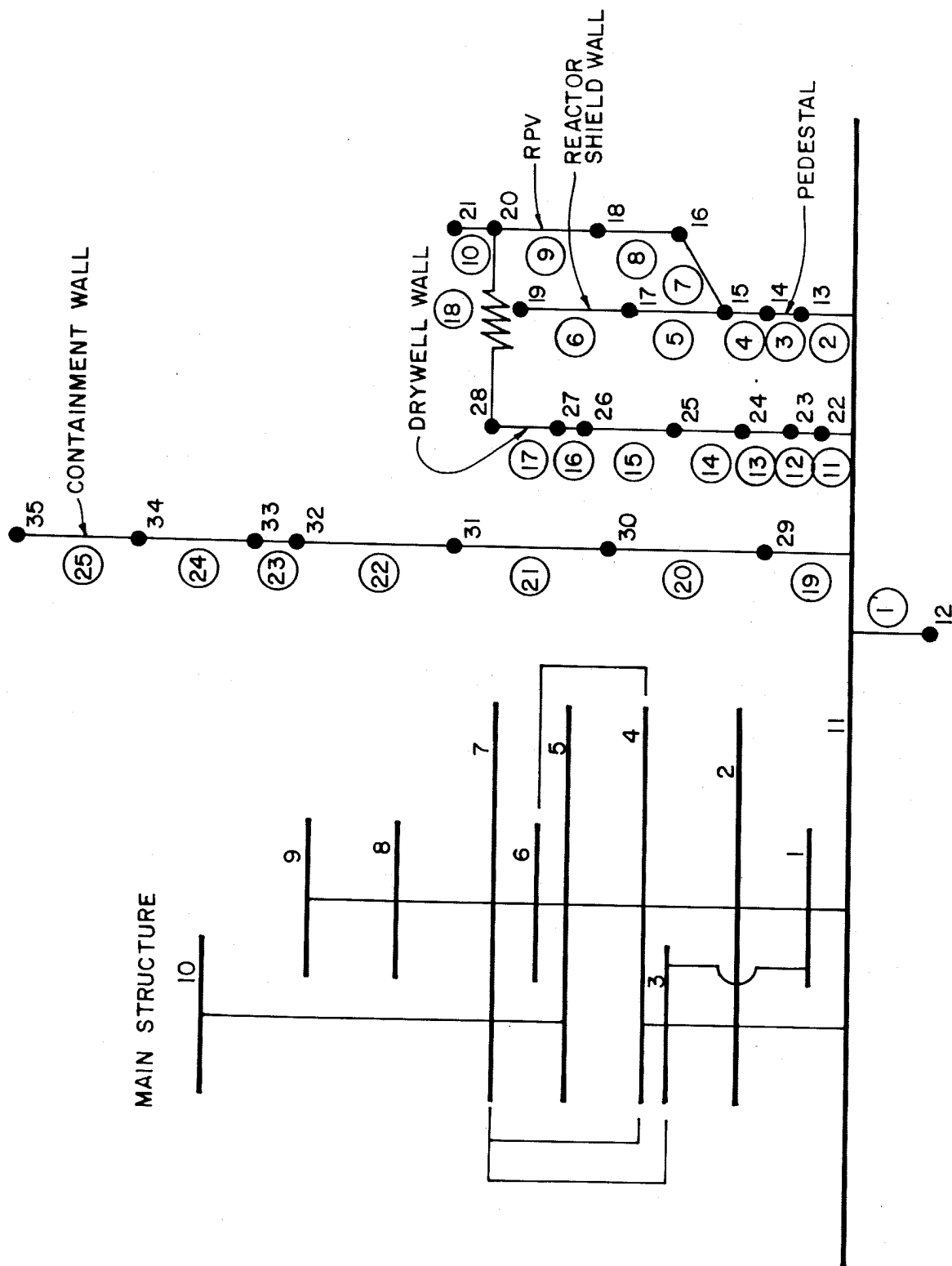
VERTICAL SSE RESPONSE SPECTRA
AT 762'-0" MAIN BUILDING



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FIGURE 3.7-57

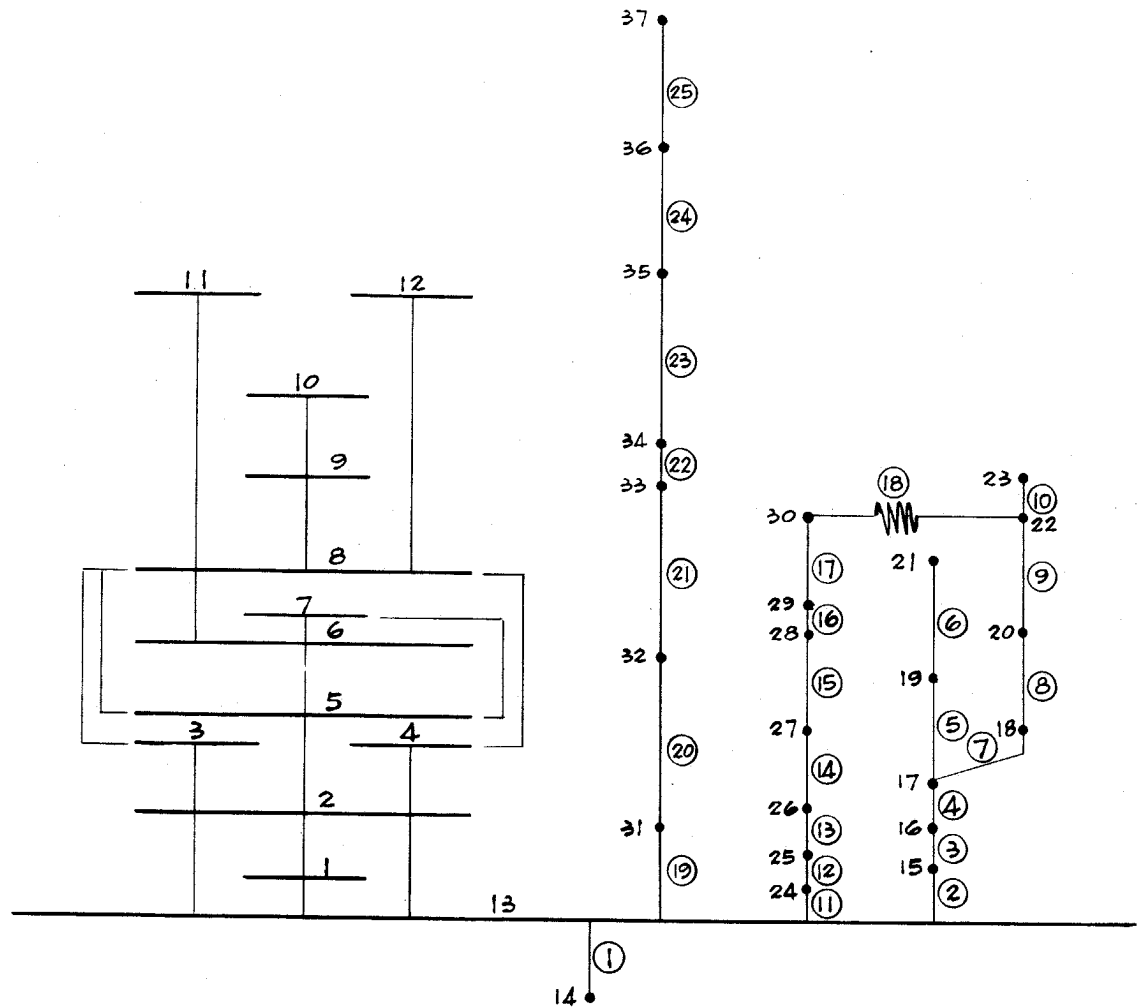
3-D AXISYMMETRIC FINITE
ELEMENT DYNAX SOIL MODEL



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FIGURE 3.7-58

HORIZONTAL 1-UNIT
BUILDING MODEL FOR
SOIL STRUCTURE INTERACTION



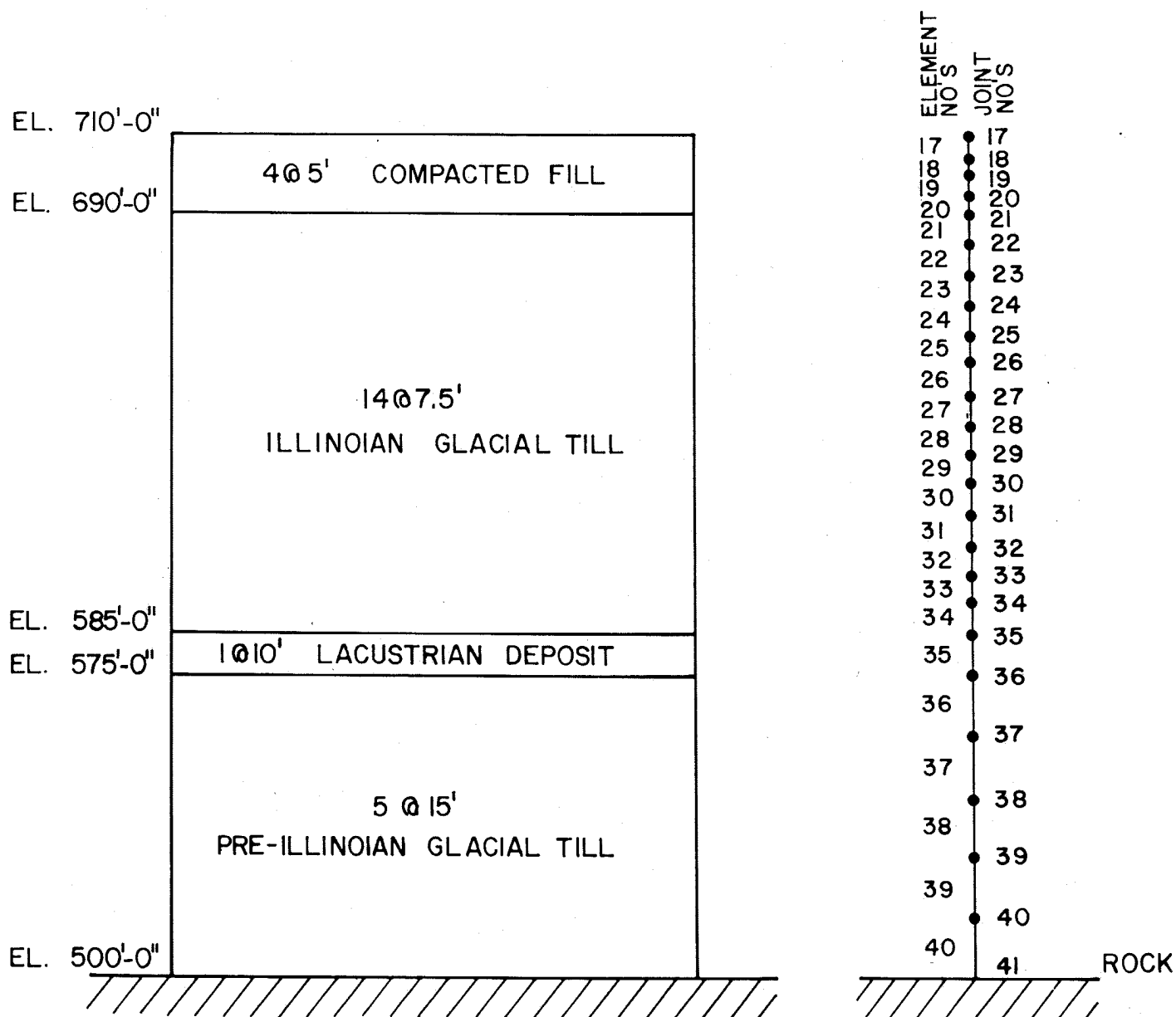
NOTE: UNIT 2 HAS BEEN CANCELLED.

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FIGURE 3.7-59

HORIZONTAL 2-UNIT BUILDING
MODEL FOR SOIL
STRUCTURE INTERACTION

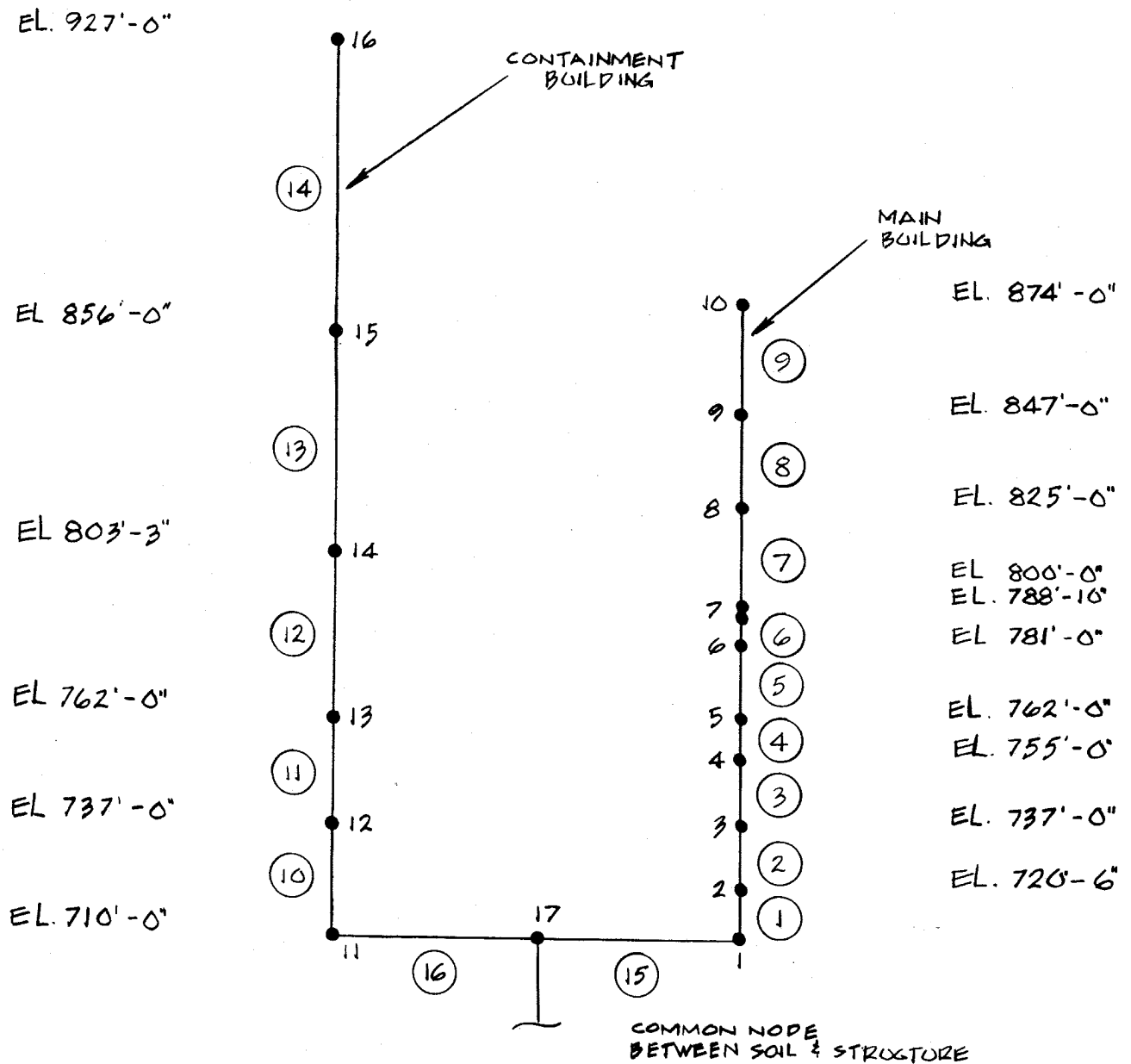
FIGURES 3.7-60 THROUGH 3.7-67
HAVE BEEN DELETED



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FIGURE 3.7-68

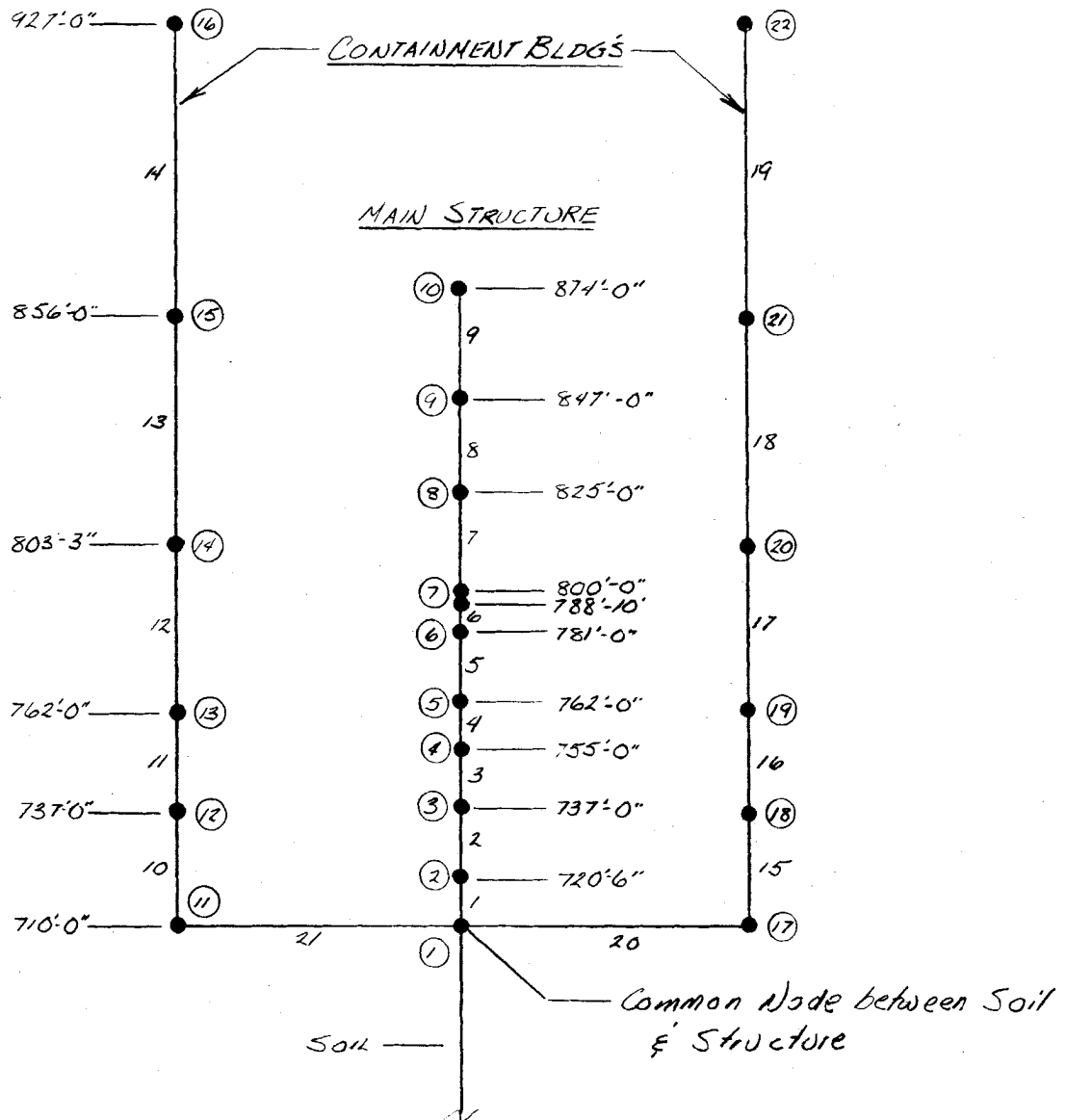
VERTICAL SOIL MODEL FOR
SOIL STRUCTURE INTERACTION



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FIGURE 3.7-69

1-UNIT BUILDING MODEL FOR
VERTICAL SOIL-STRUCTURE INTERACTION

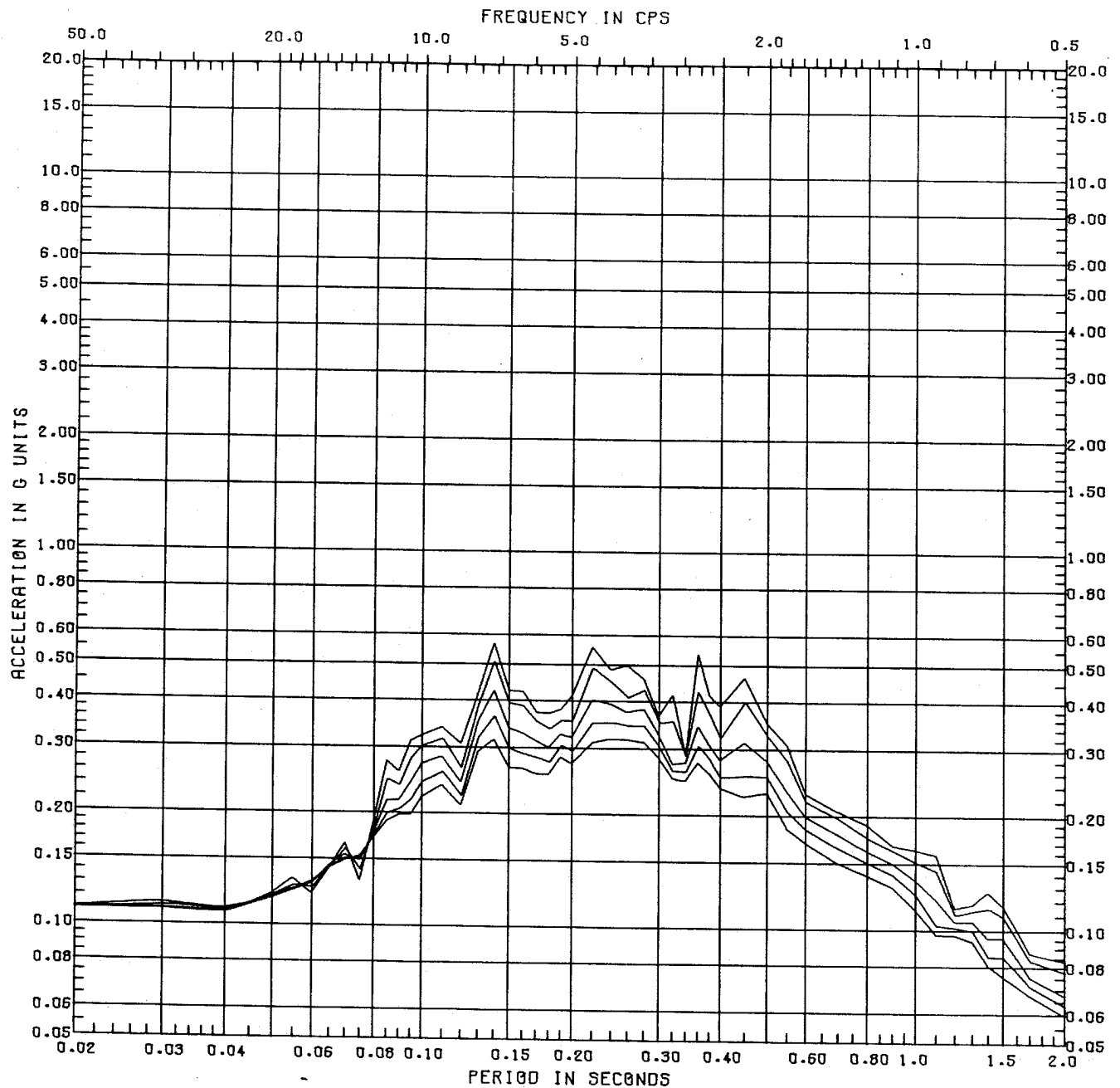


NOTE: UNIT 2 HAS BEEN CANCELLED.

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FIGURE 3.7-70

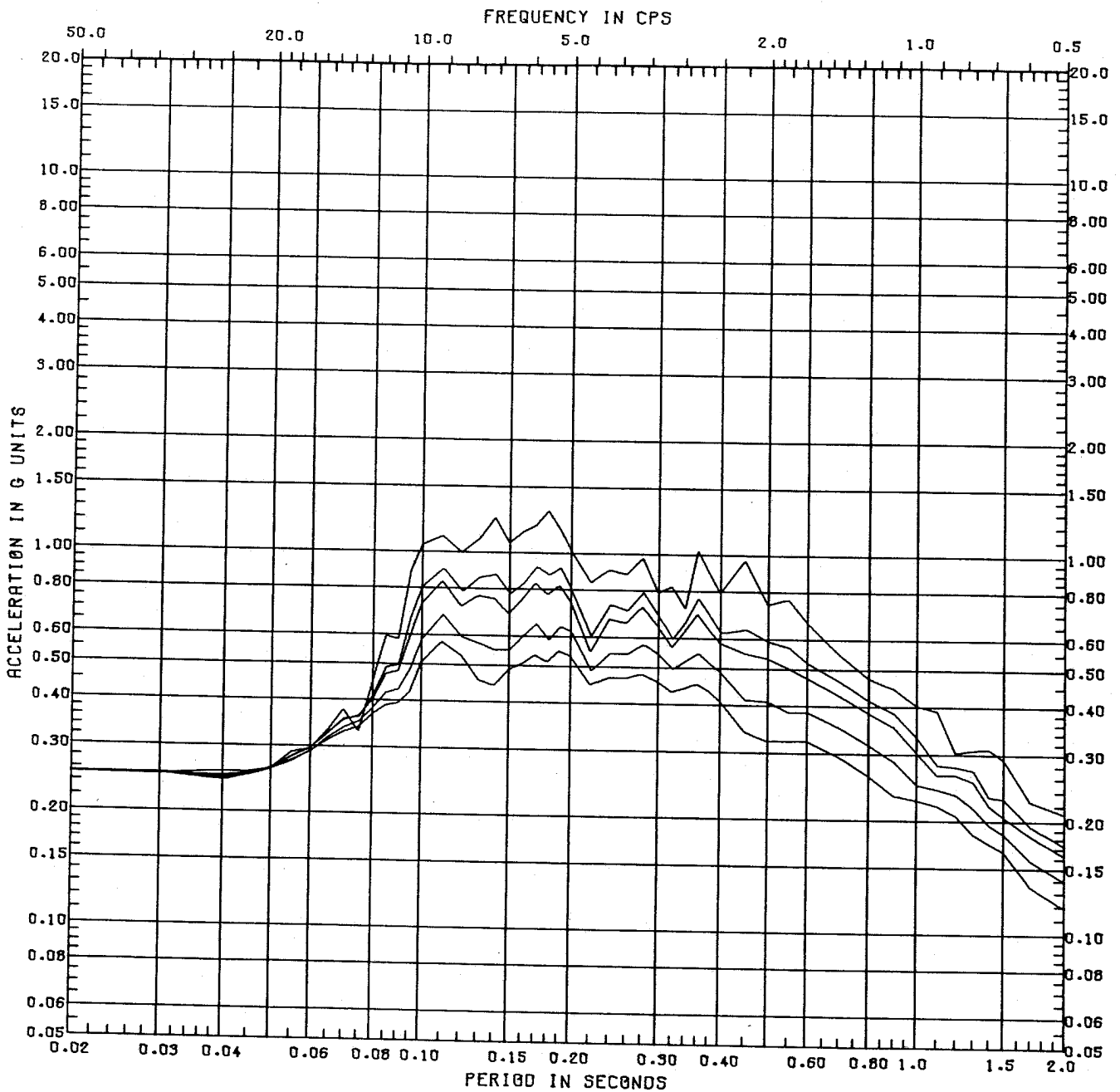
2-UNIT BUILDING MODEL FOR
VERTICAL SOIL STRUCTURE INTERACTION



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FIGURE 3.7-71

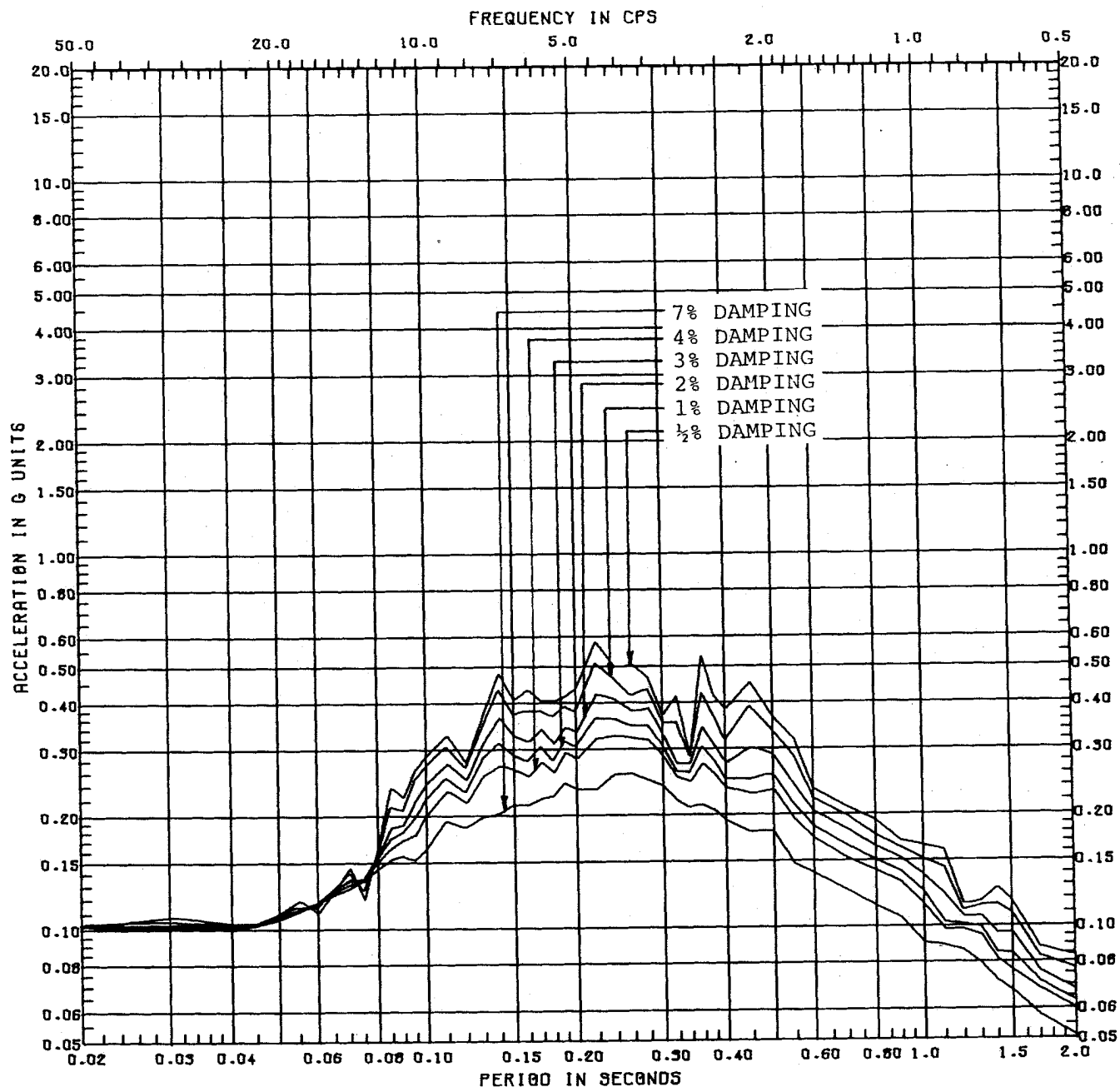
OBE VERTICAL FOUNDATION INTERACTION
SPECTRA FOR 1-UNIT BUILDING MODEL



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FIGURE 3.7-72

SSE VERTICAL FOUNDATION INTERACTION
SPECTRA FOR 1-UNIT BUILDING MODEL

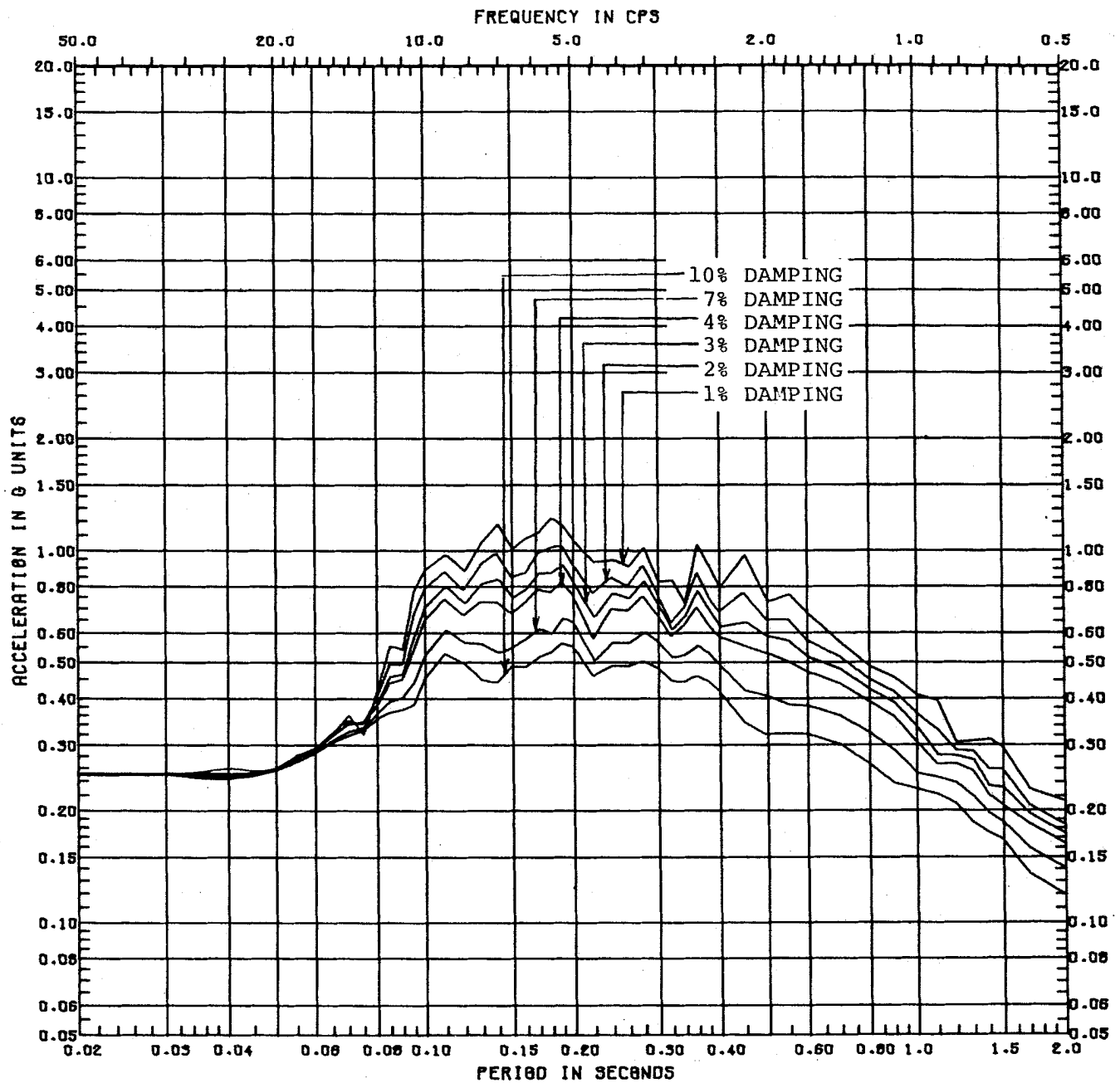


NOTE: UNIT 2 HAS BEEN CANCELLED.

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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

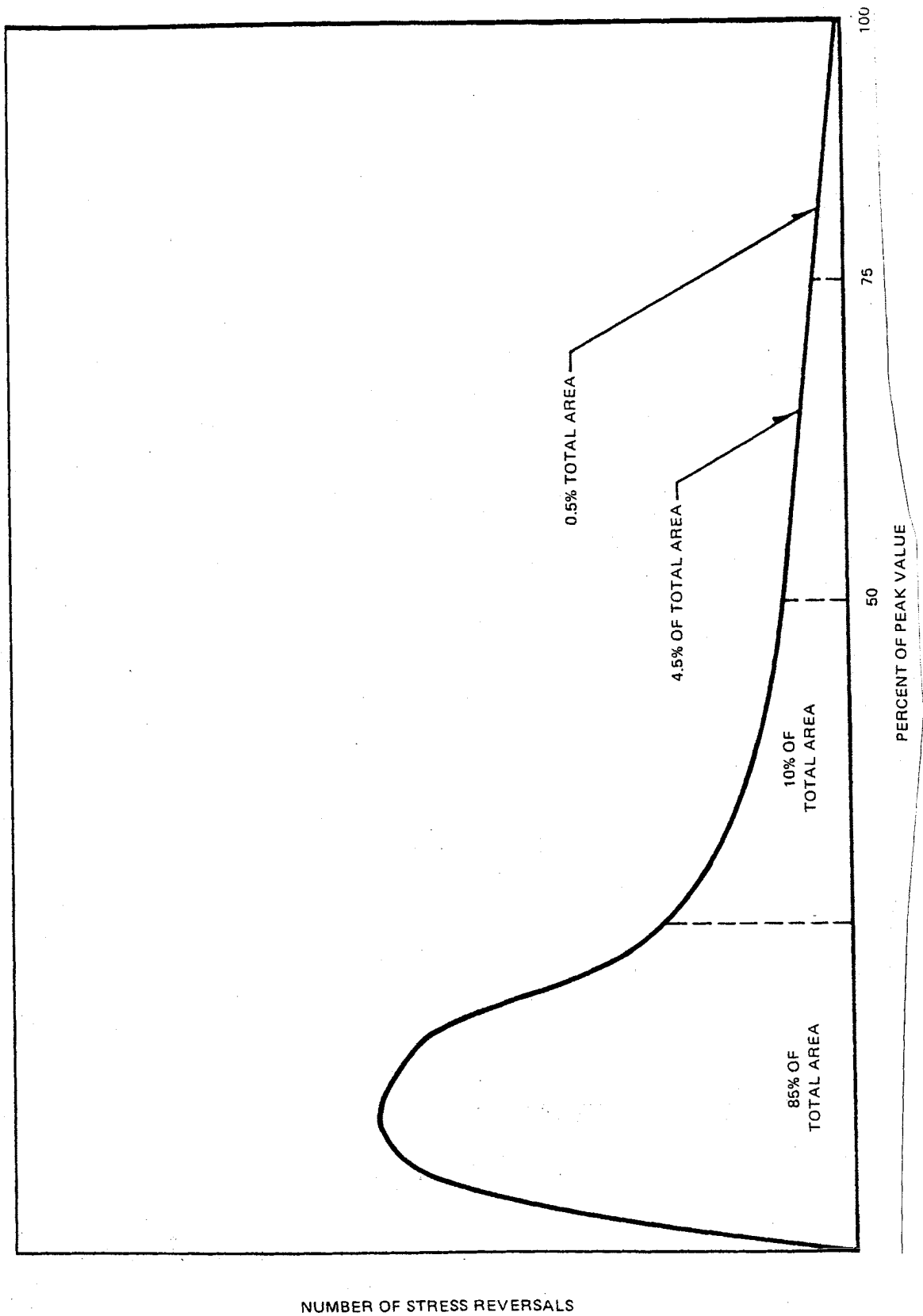
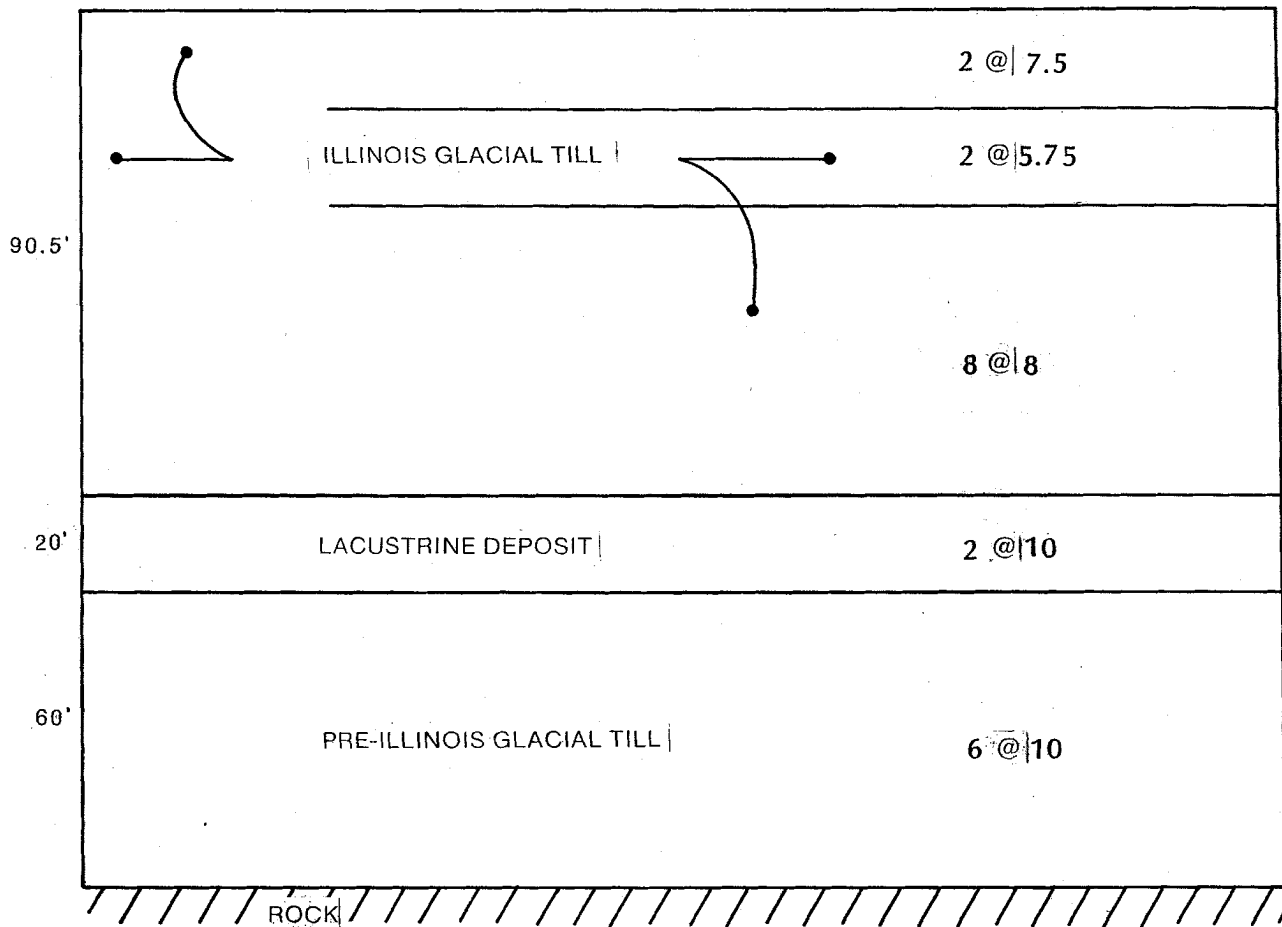


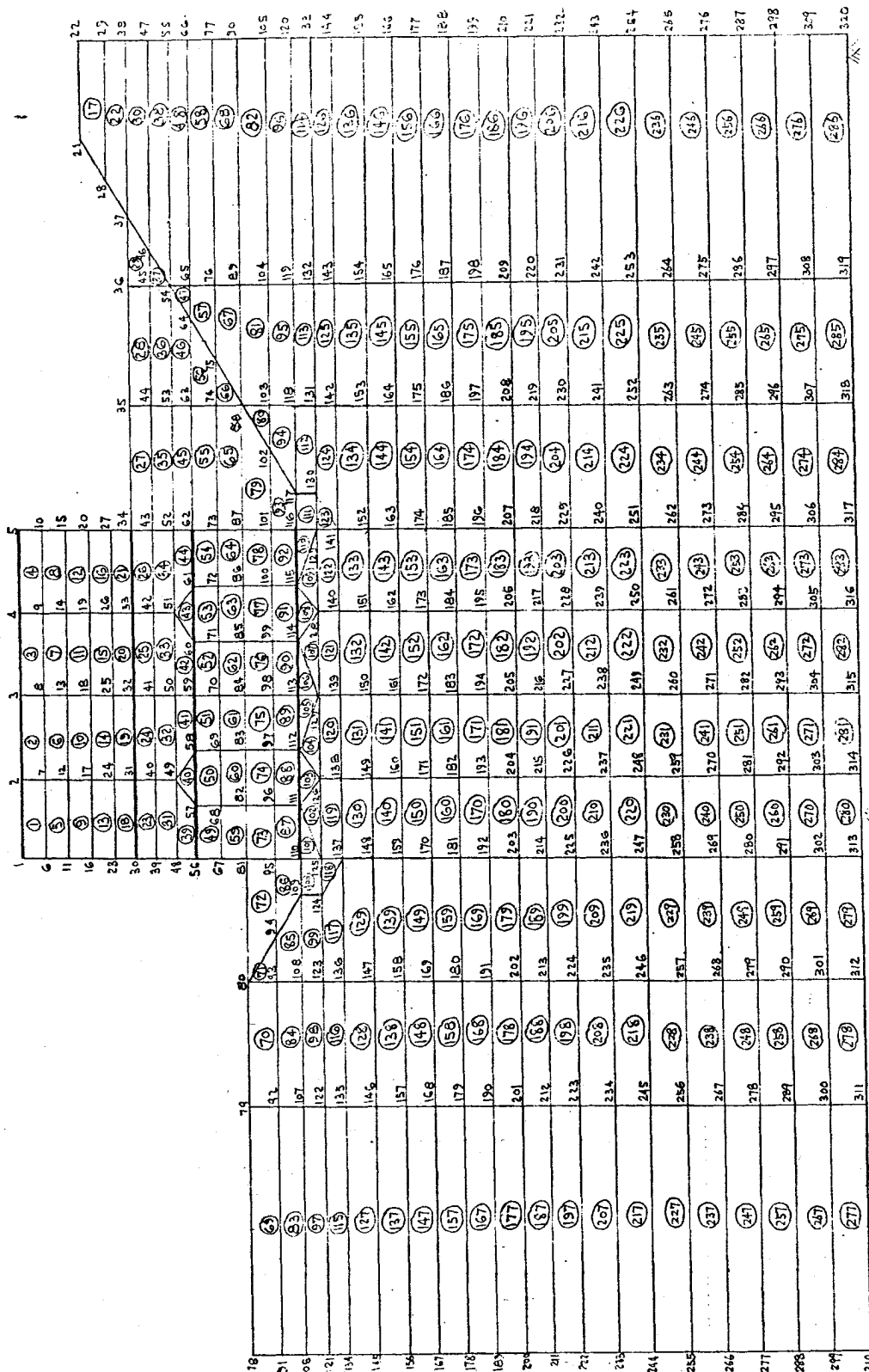
FIGURE 3.7-75 DENSITY OF STRESS REVERSALS



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FIGURE 3.7-76

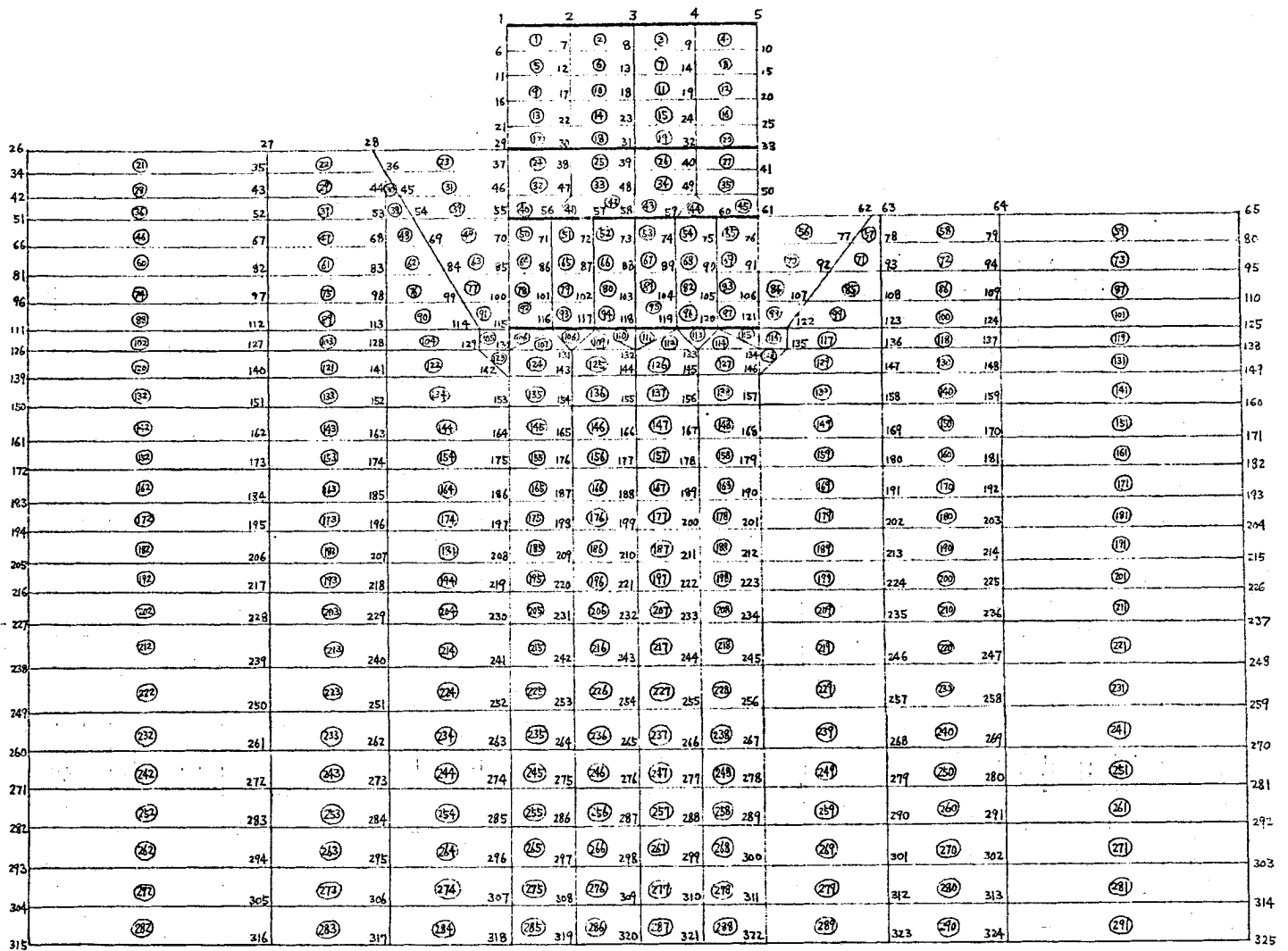
SHAKE SOIL MODEL FOR CIRCULATING
WATER SCREEN HOUSE ANALYSIS



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FIGURE 3.7-77

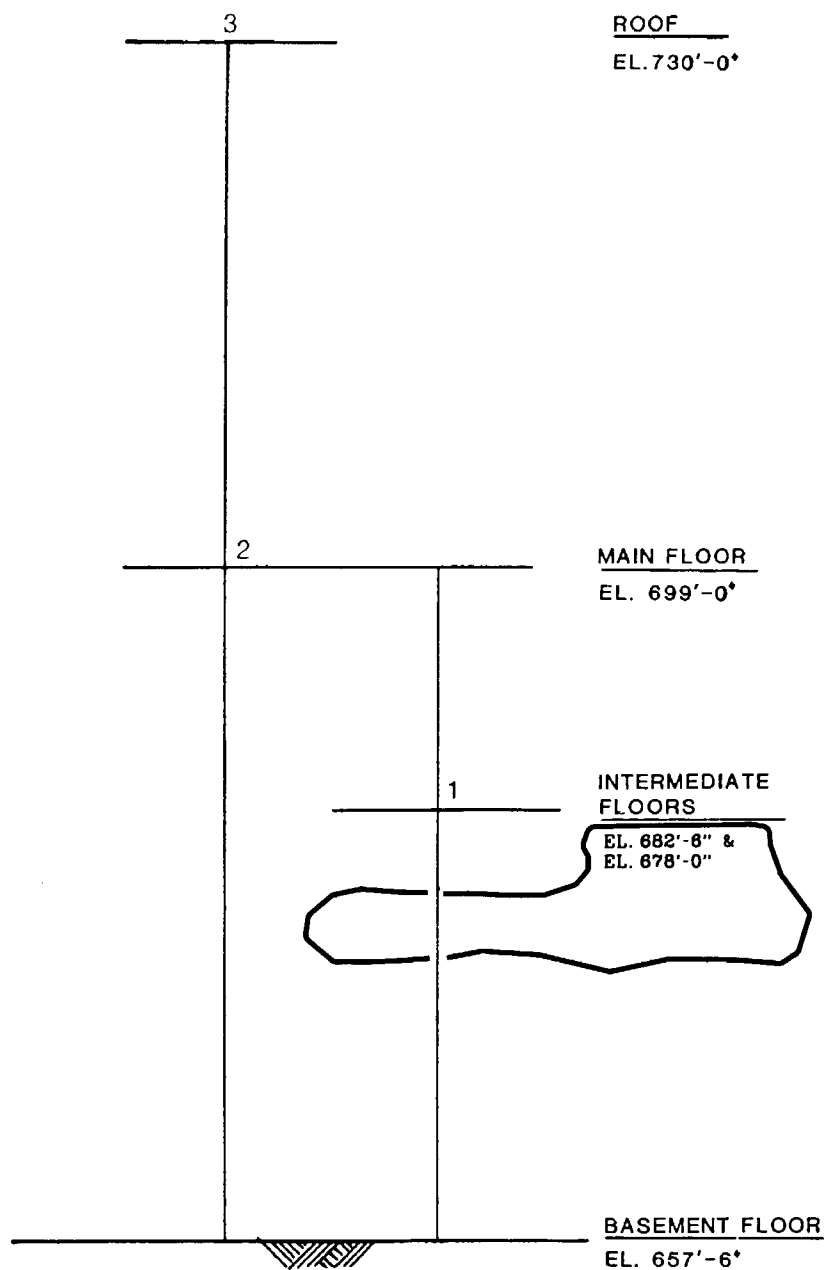
EAST-WEST HORIZONTAL SOIL STRUCTURE
 INTERACTION MODEL FOR CWSH



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FIGURE 3.7-78

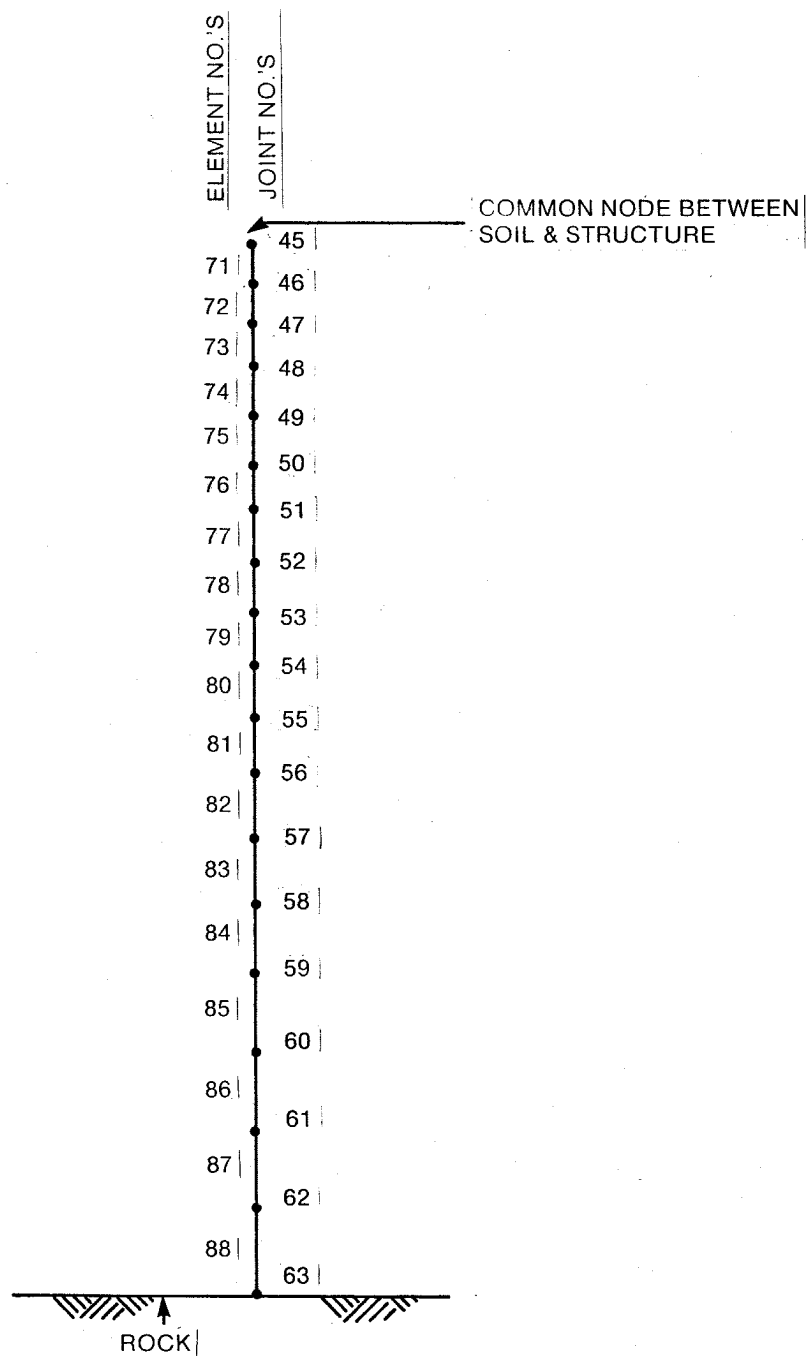
NORTH-SOUTH HORIZONTAL SOIL
STRUCTURE INTERACTION MODEL
FOR CWSH



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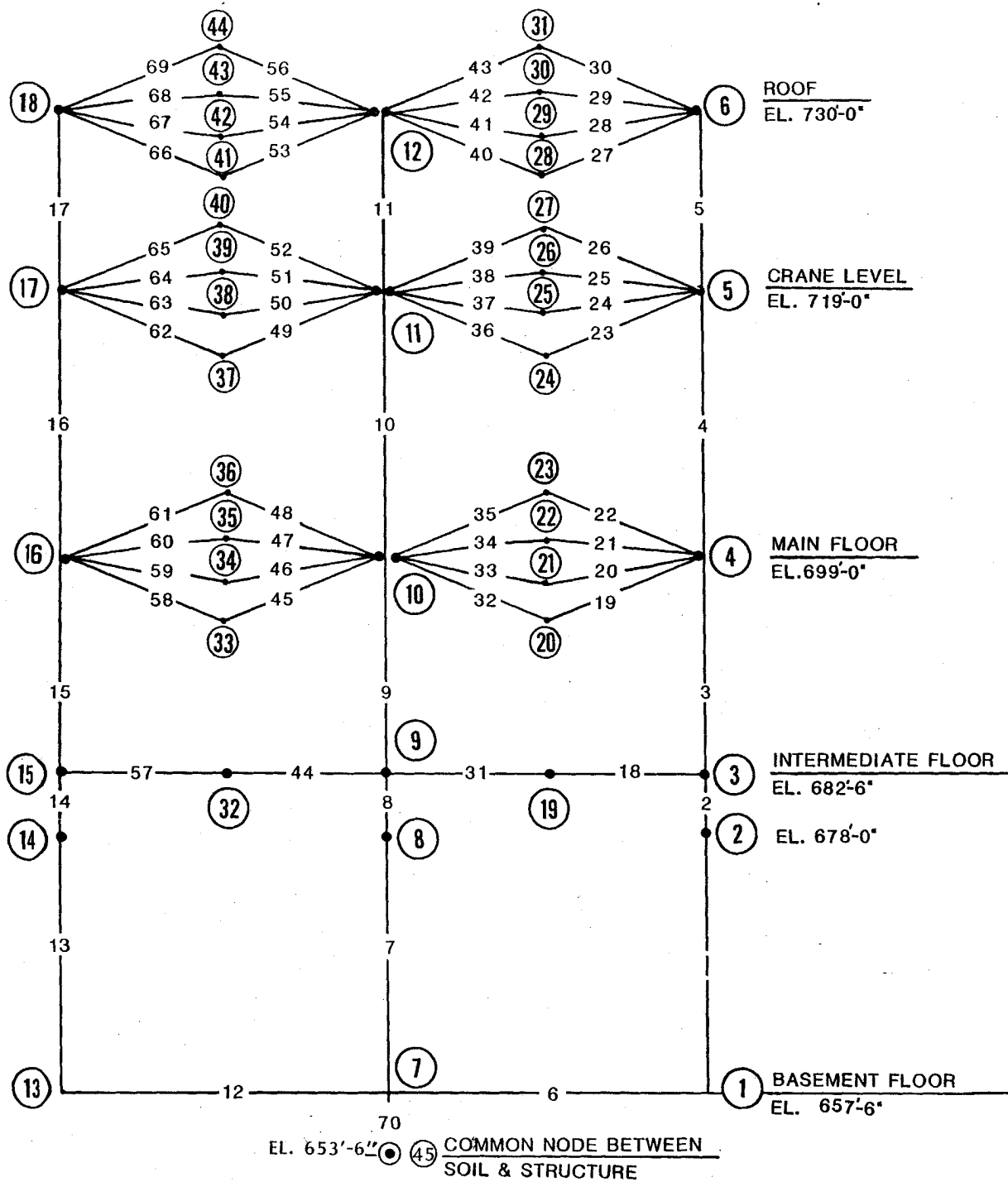
FIGURE 3.7-79

HORIZONTAL MODEL FOR CWSH



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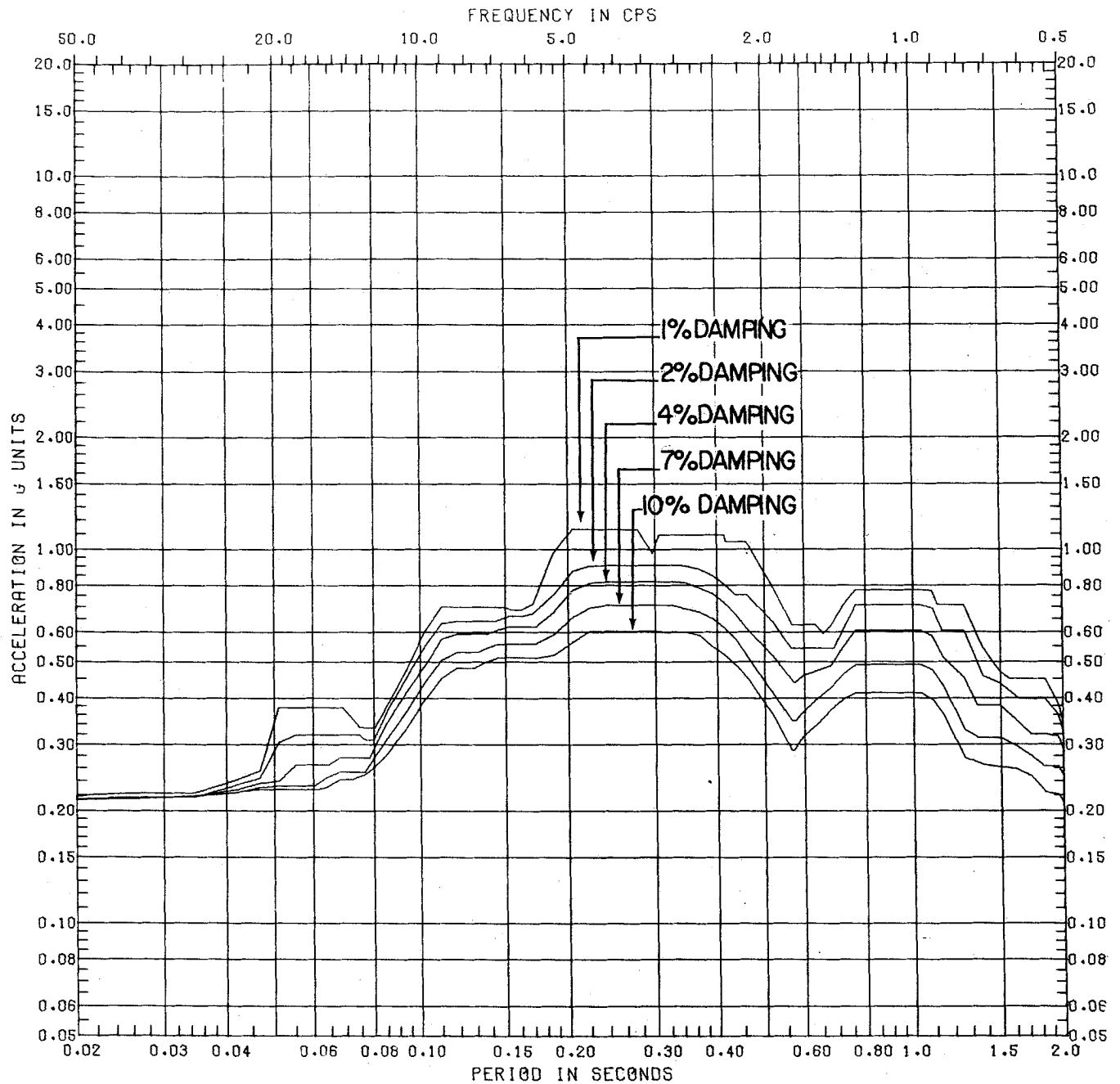
**FIGURE 3.7-80
SOIL COLUMN FOR
VERTICAL CWSH ANALYSIS**



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FIGURE 3.7-81

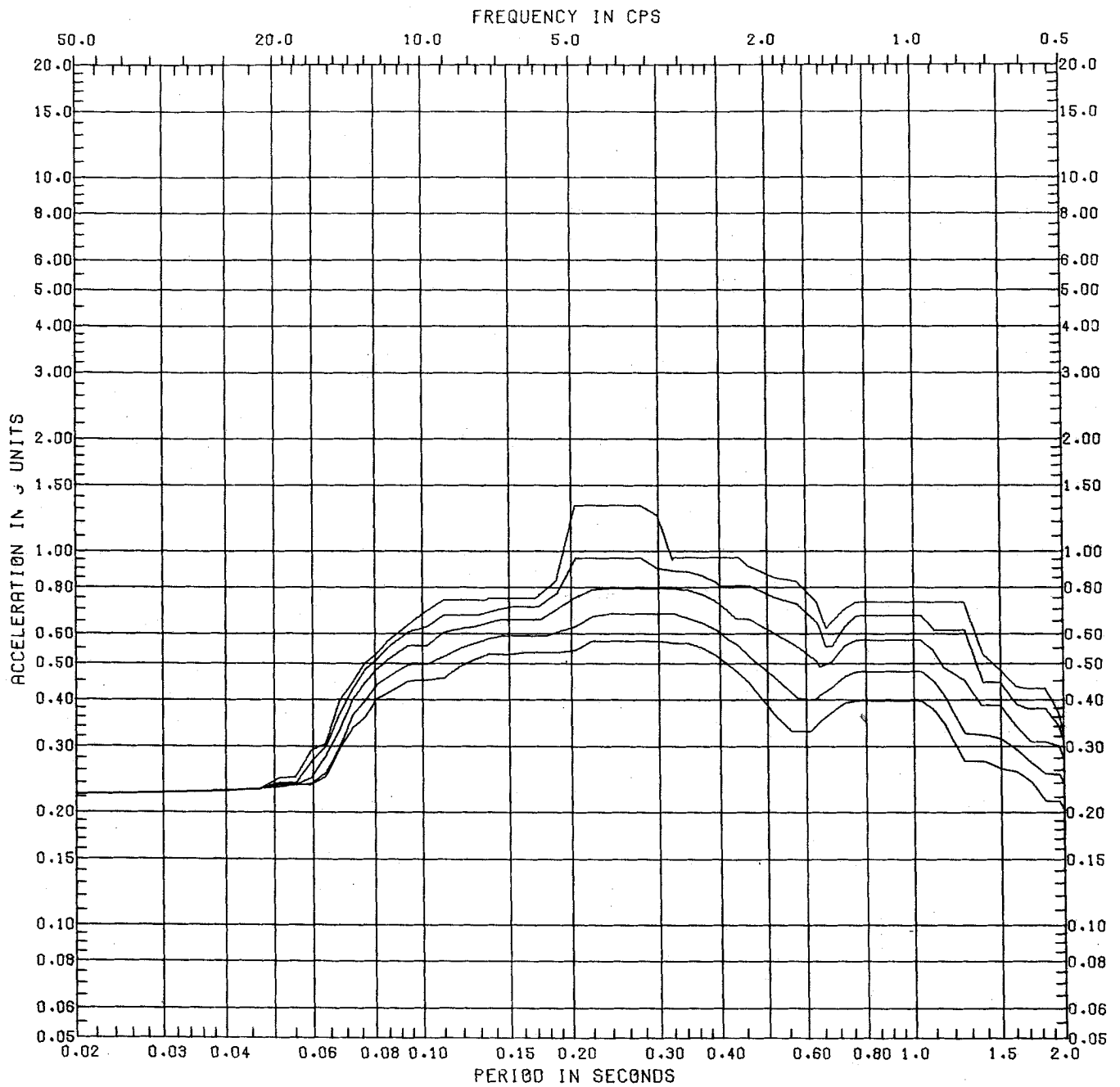
VERTICAL MODEL FOR CWSH



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FIGURE 3.7-82

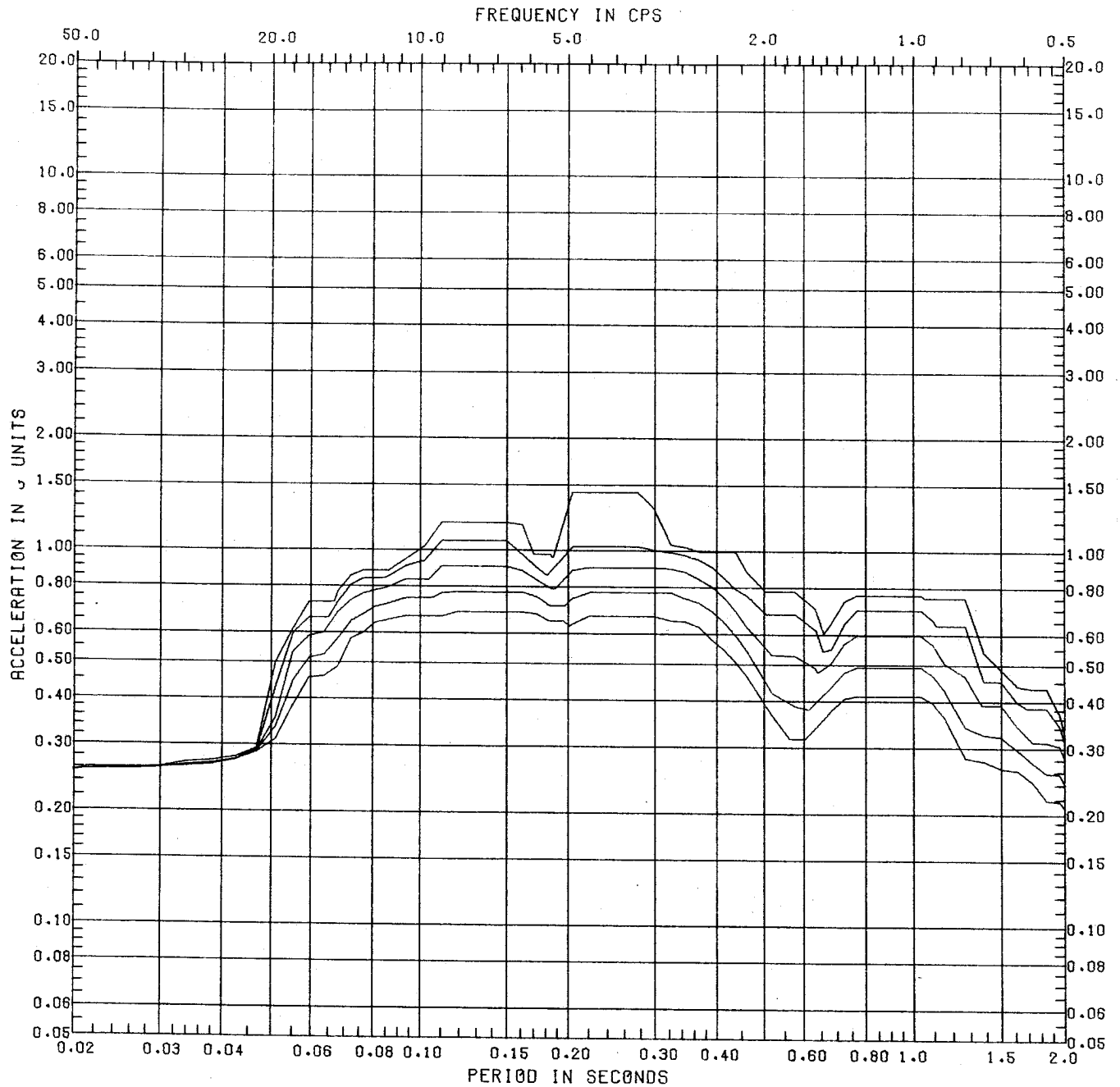
HORIZONTAL
SSE RESPONSE SPECTRA CWSH -
BASE ELEVATION 653'-6" N-S



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FIGURE 3.7-83

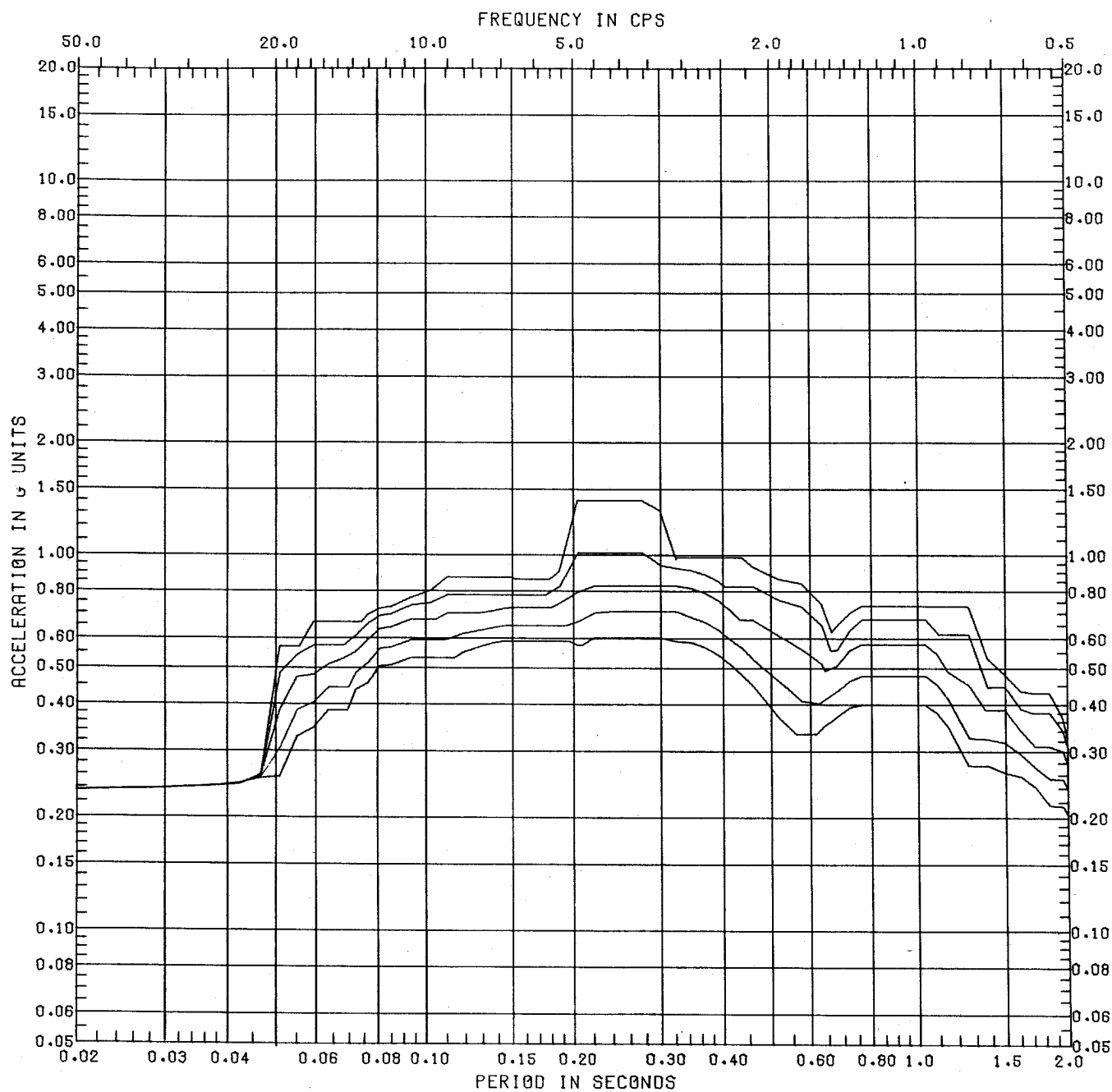
HORIZONTAL
SSE RESPONSE SPECTRA CWSH -
BASE ELEVATION 653'-6" E-W



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FIGURE 3.7-84

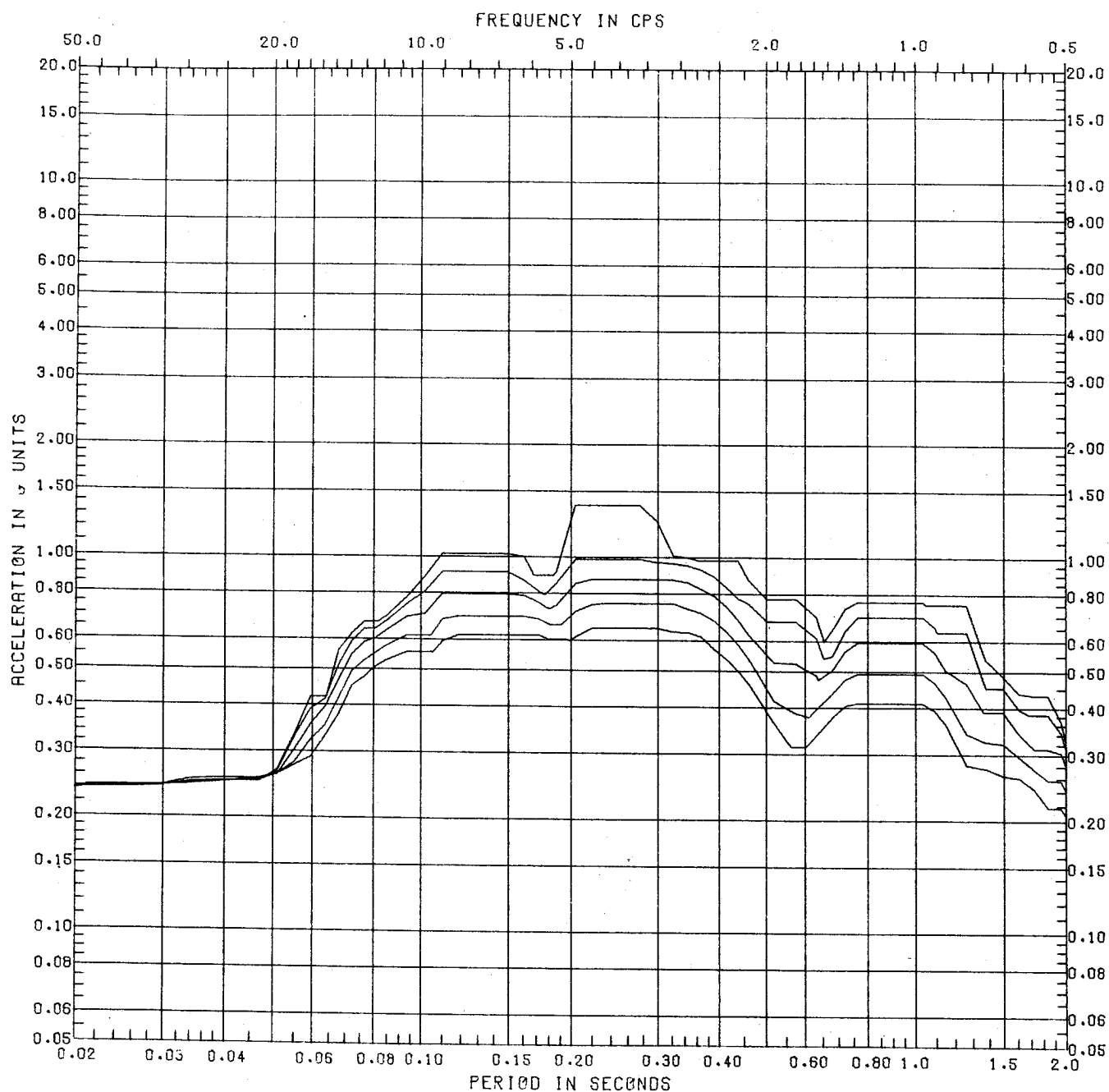
HORIZONTAL
SSE RESPONSE SPECTRA CWSH -
MAIN FLOOR ELEVATION 699'-0" N-S



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FIGURE 3.7-85

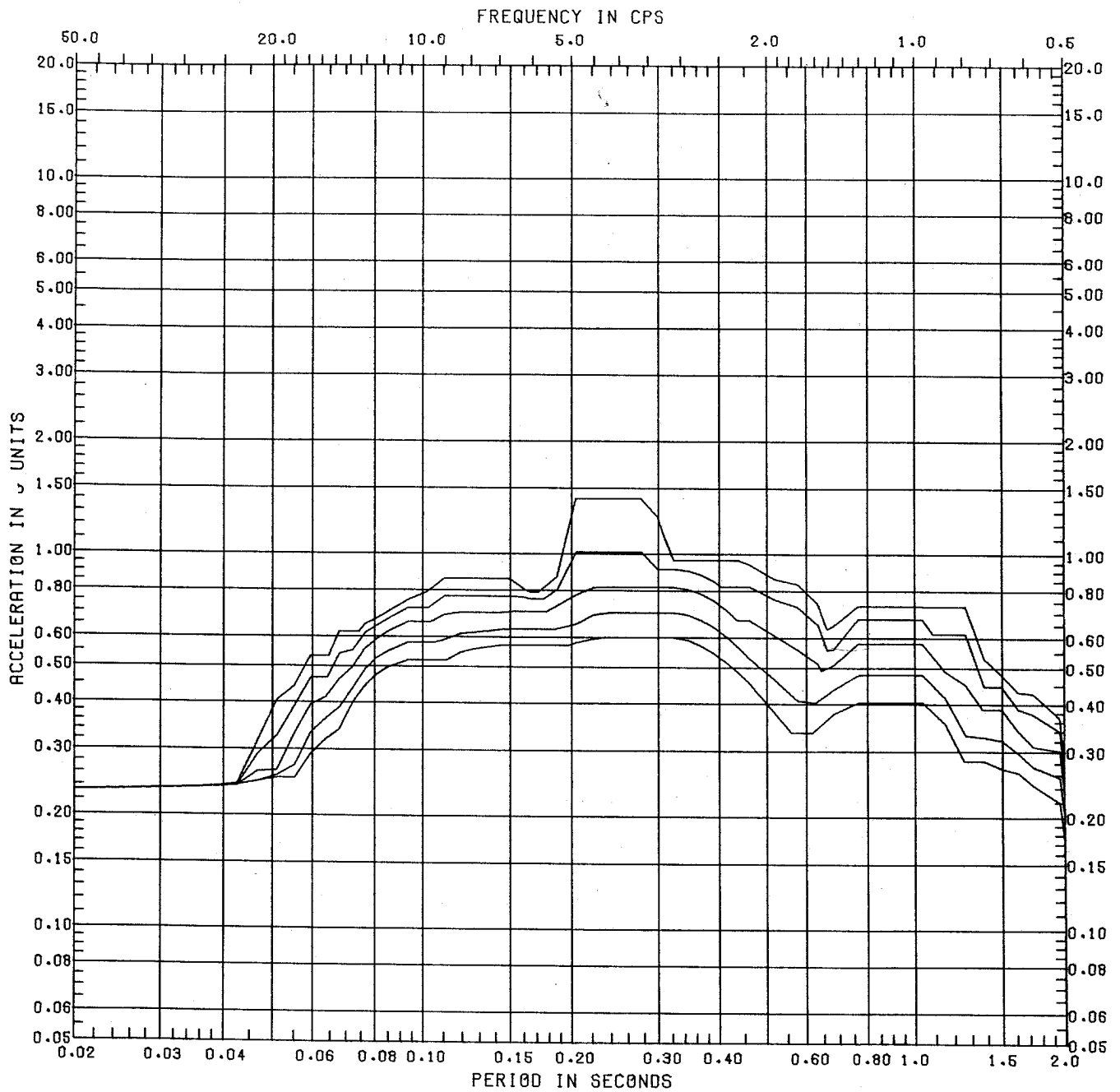
HORIZONTAL
SSE RESPONSE SPECTRA CWSH -
MAIN FLOOR ELEVATION 699'-0" E-W



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FIGURE 3.7-86

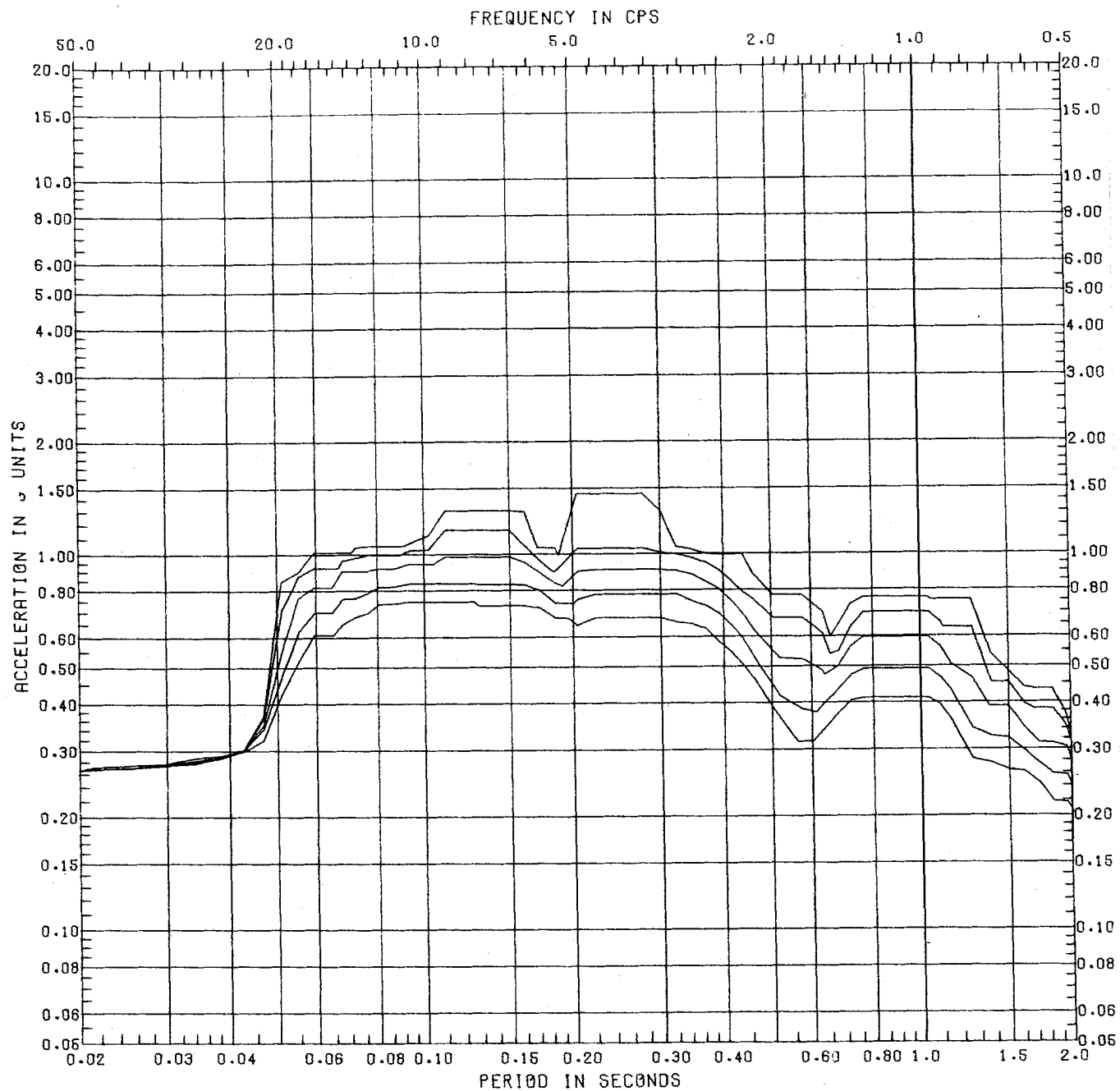
**HORIZONTAL
SSE RESPONSE SPECTRA CWSH -
INTERMEDIATE FLOOR
ELEVATION 682'-6" N-S**



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FIGURE 3.7-87

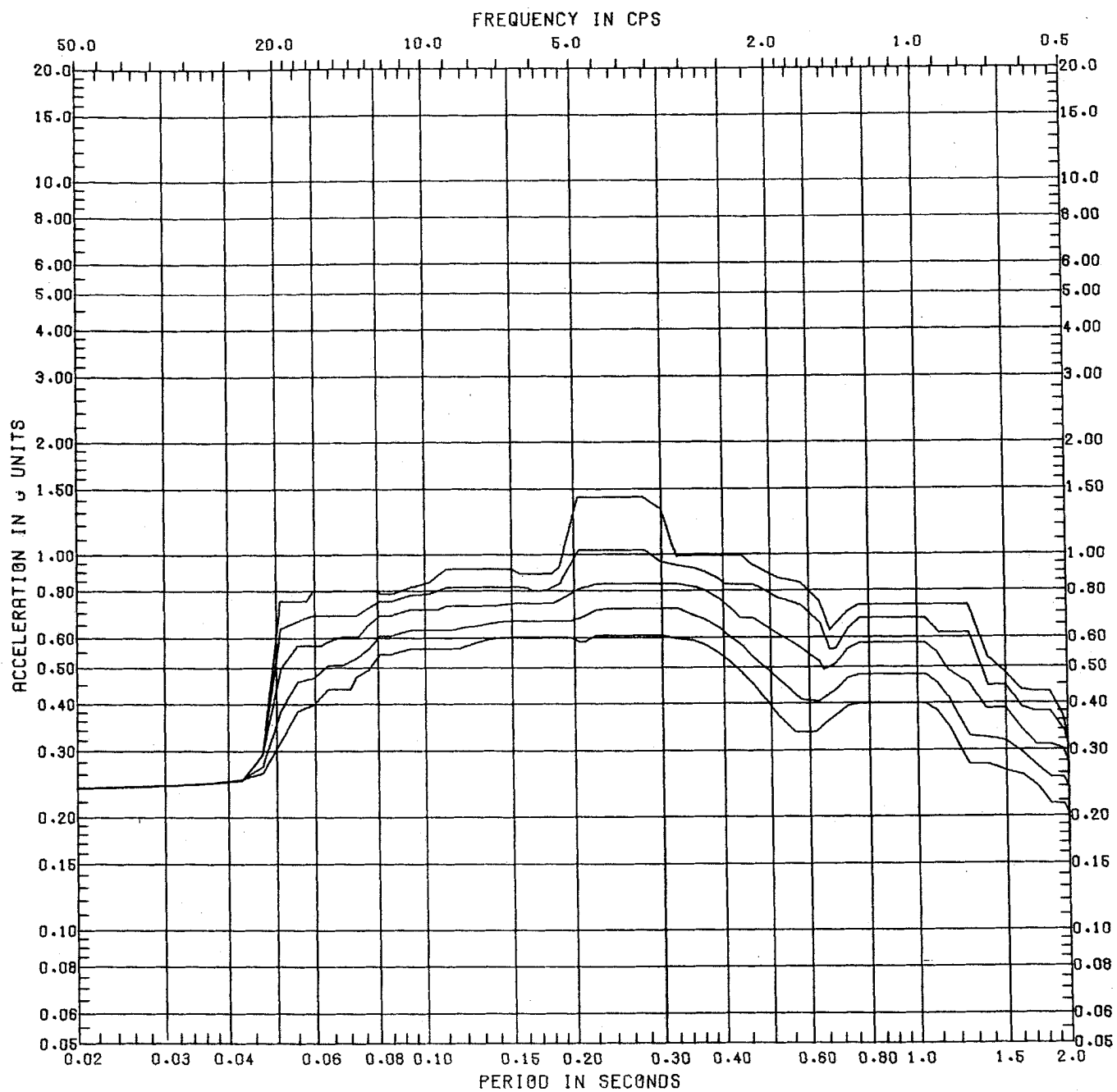
HORIZONTAL
SSE RESPONSE SPECTRA CWSH -
INTERMEDIATE FLOOR
ELEVATION 682'-6" E-W



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FIGURE 3.7-88

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

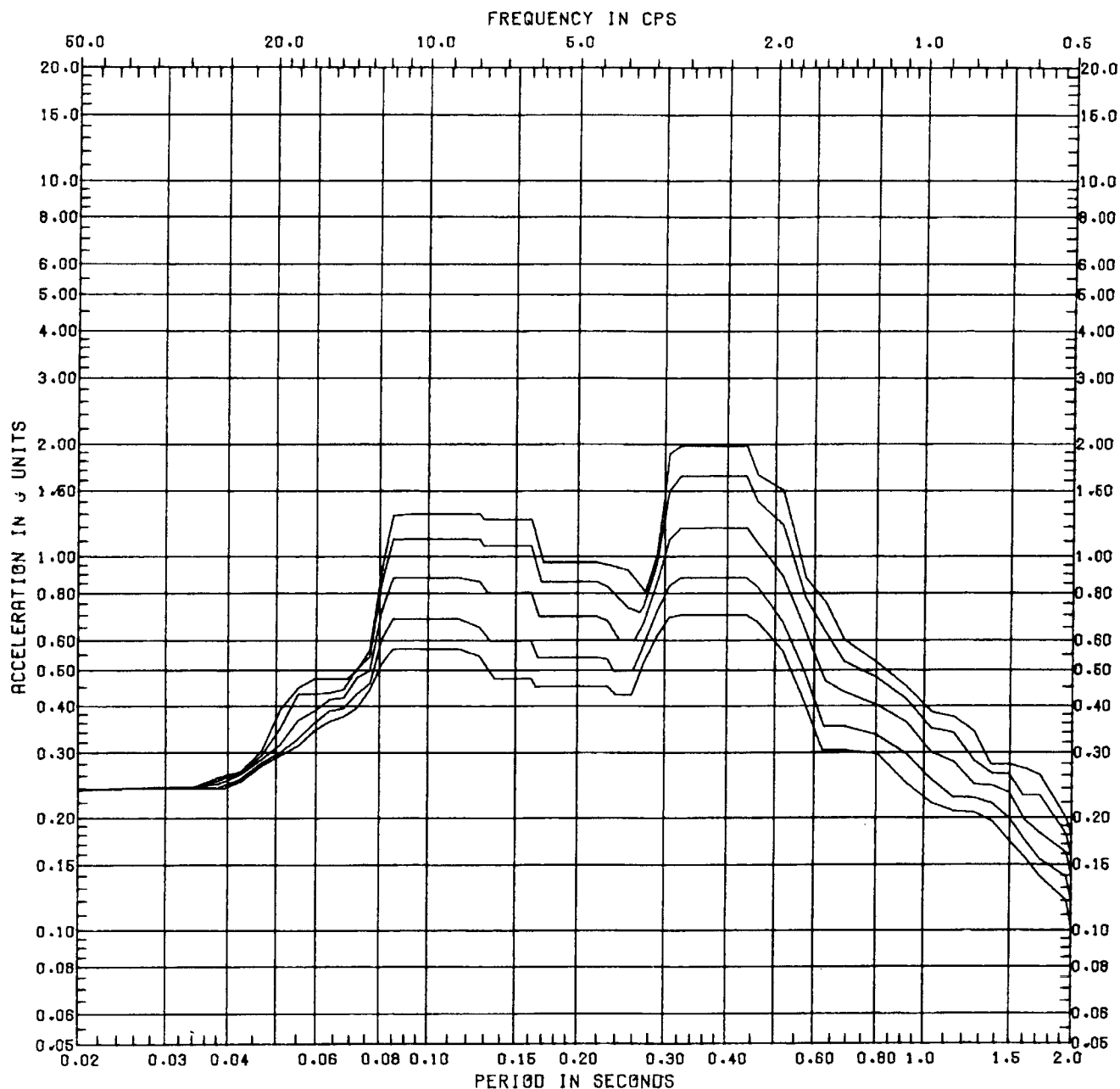


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FIGURE 3.7-89

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

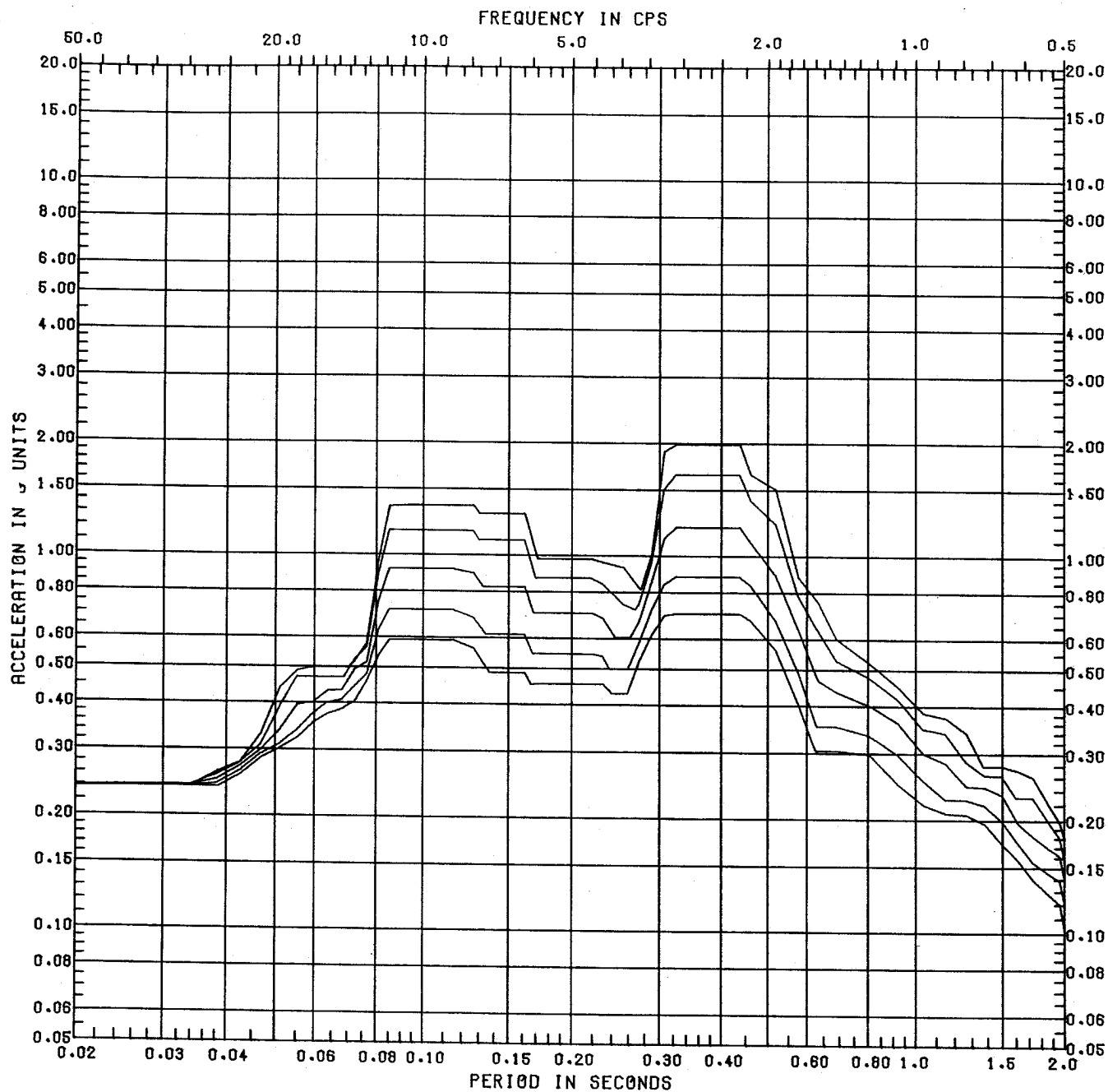
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FIGURE 3.7-90

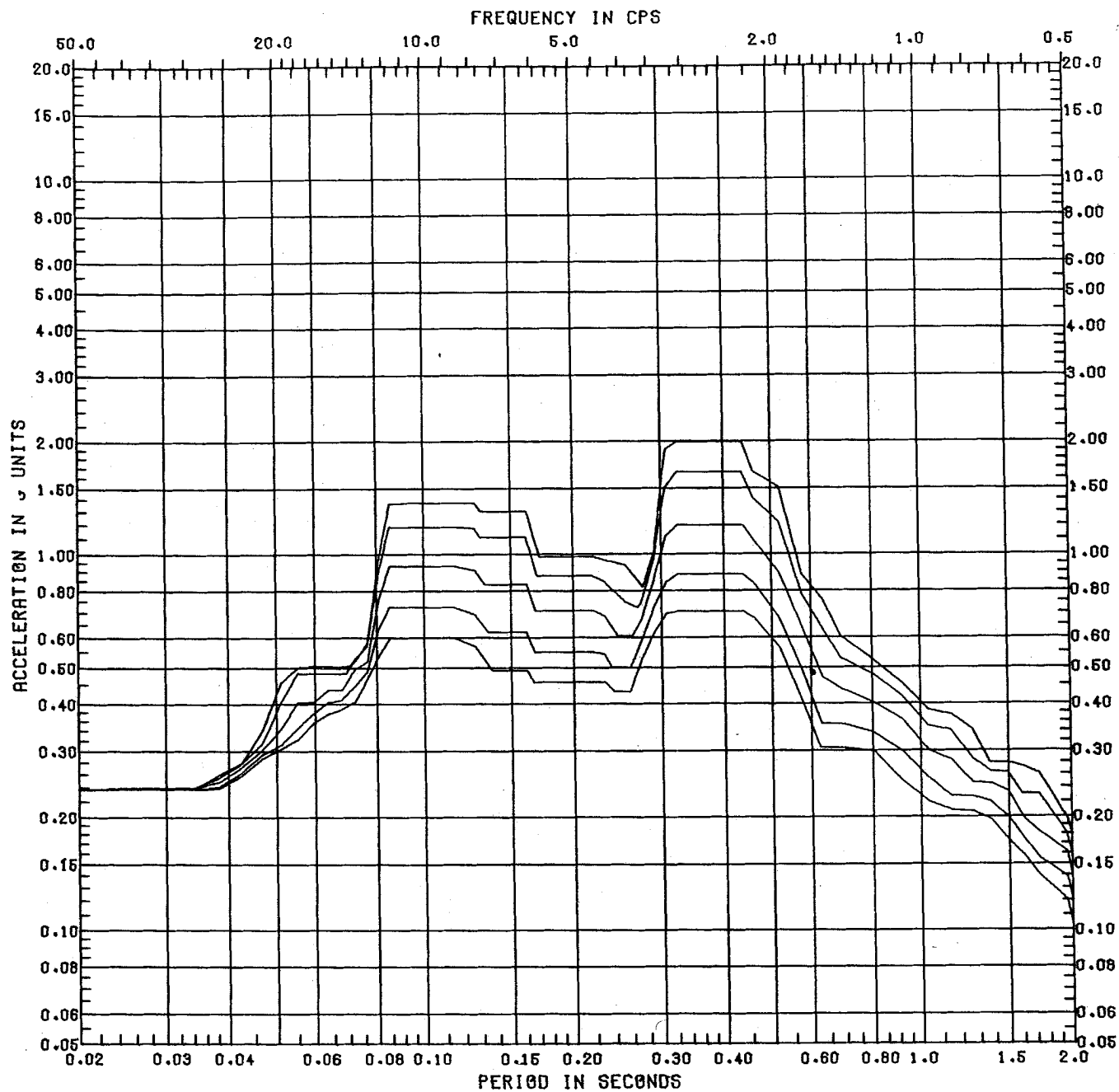
SSE RESPONSE SPECTRA CWSH-
BASE ELEVATION 657'-6"
VERTICAL WALL



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FIGURE 3.7-91

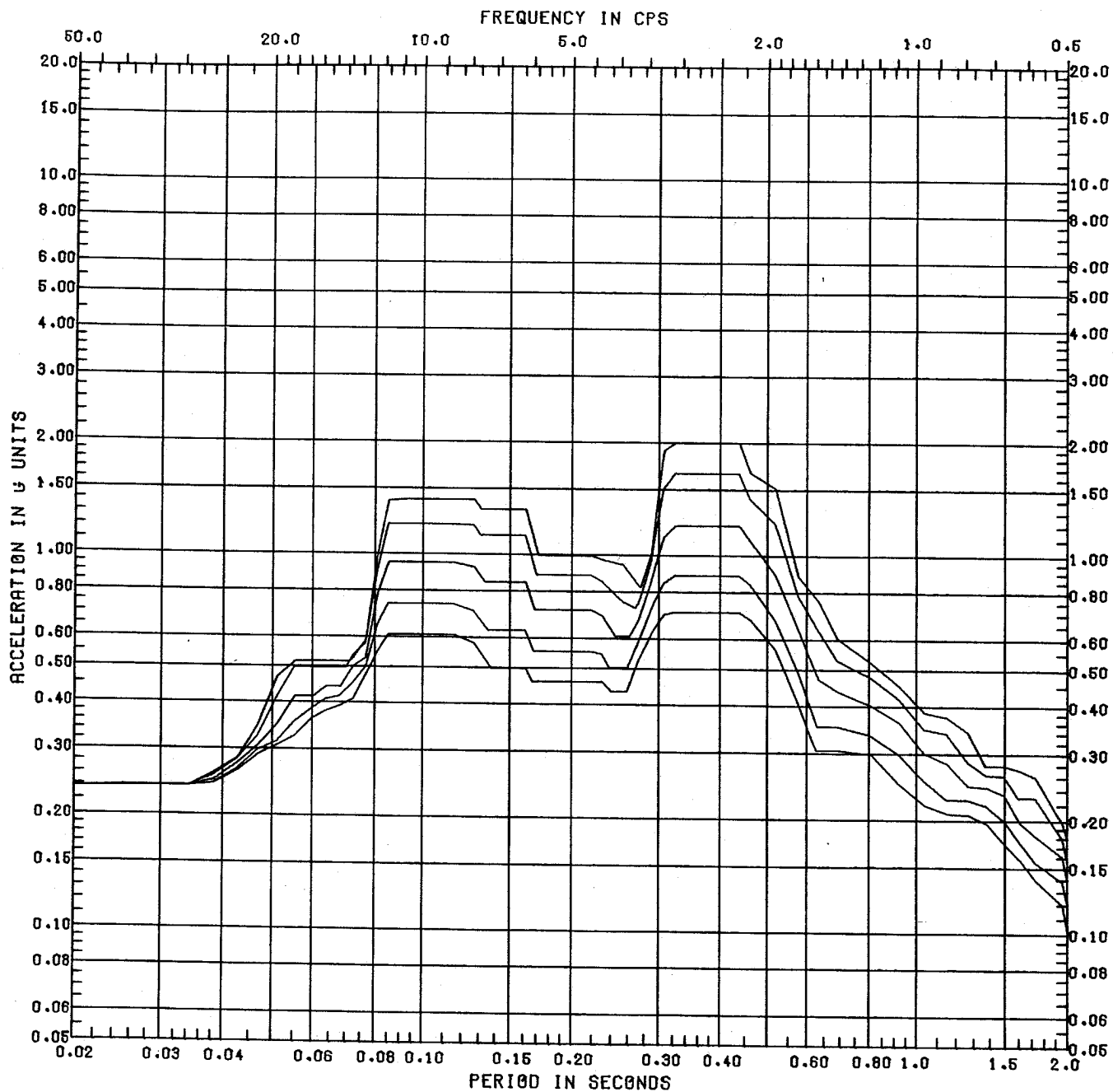
SSE RESPONSE SPECTRA CWSH -
INTERMEDIATE FLOOR
ELEVATION 682'-6"
VERTICAL WALL



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FIGURE 3.7-92

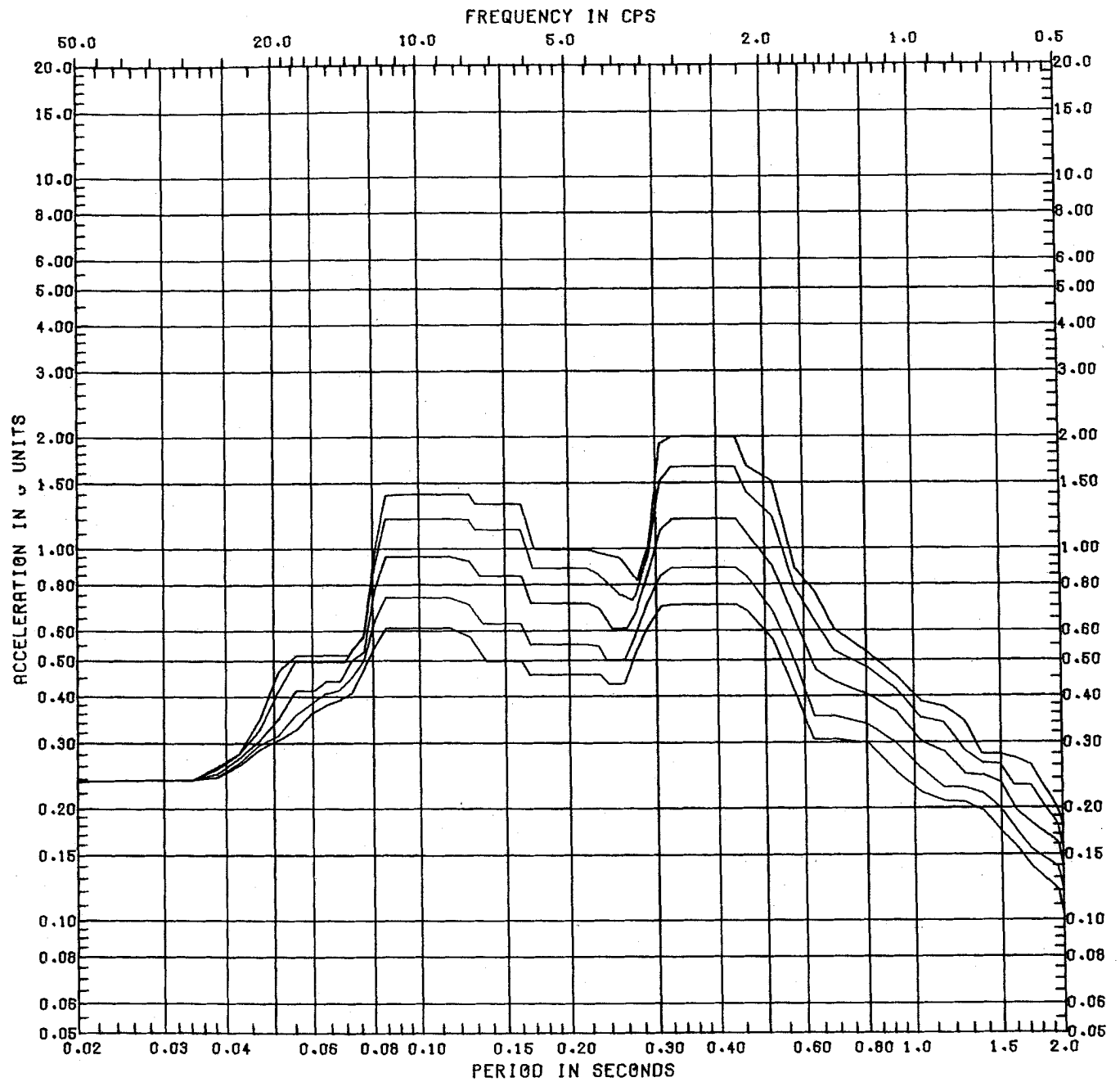
SSE RESPONSE SPECTRA CWSH -
MAIN FLOOR ELEVATION 699'-0"
VERTICAL WALL



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FIGURE 3.7-93

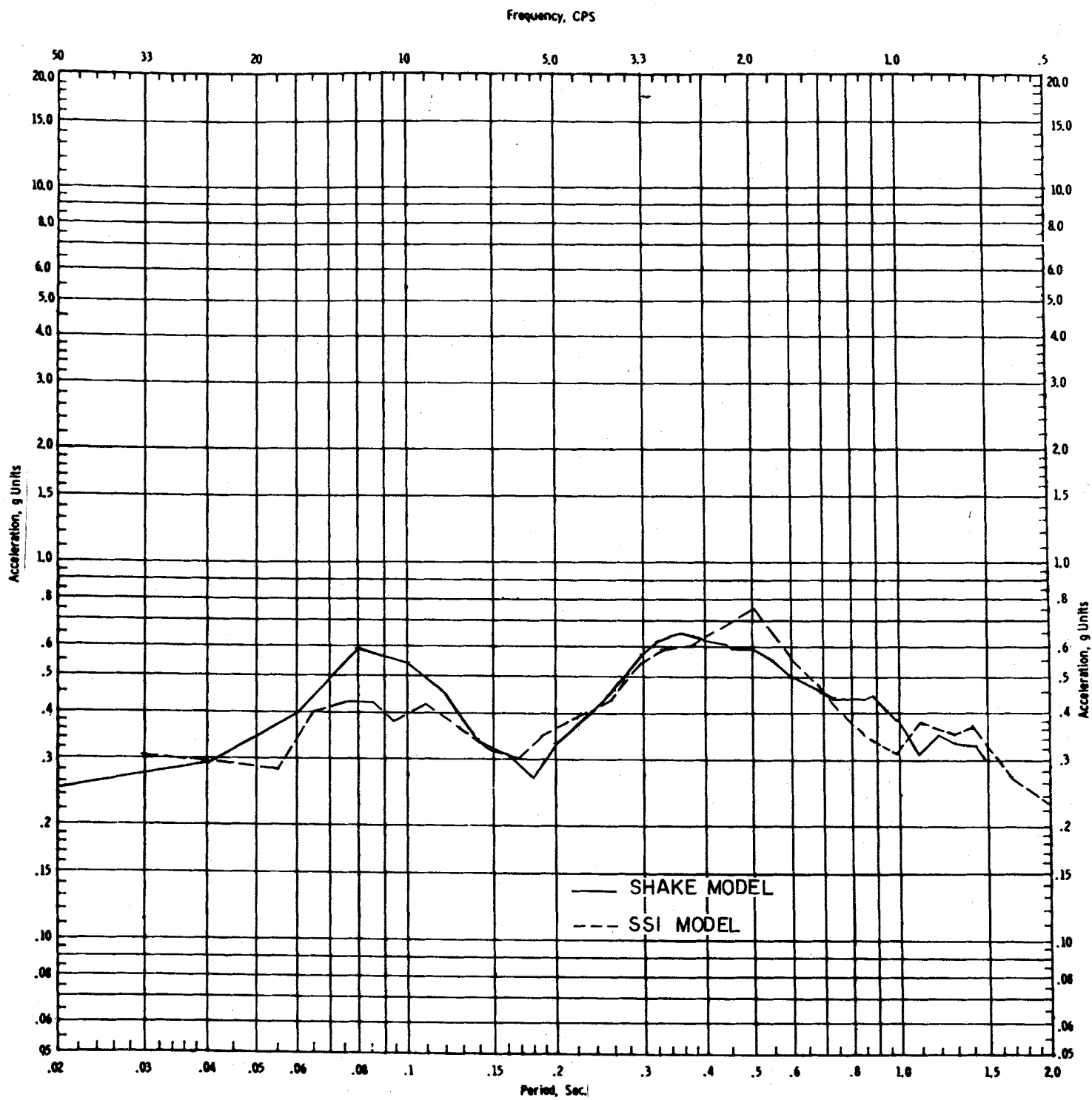
SSE RESPONSE SPECTRA CWSH -
CRANE LEVEL ELEVATION 719'-0"
VERTICAL WALL



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FIGURE 3.7-94

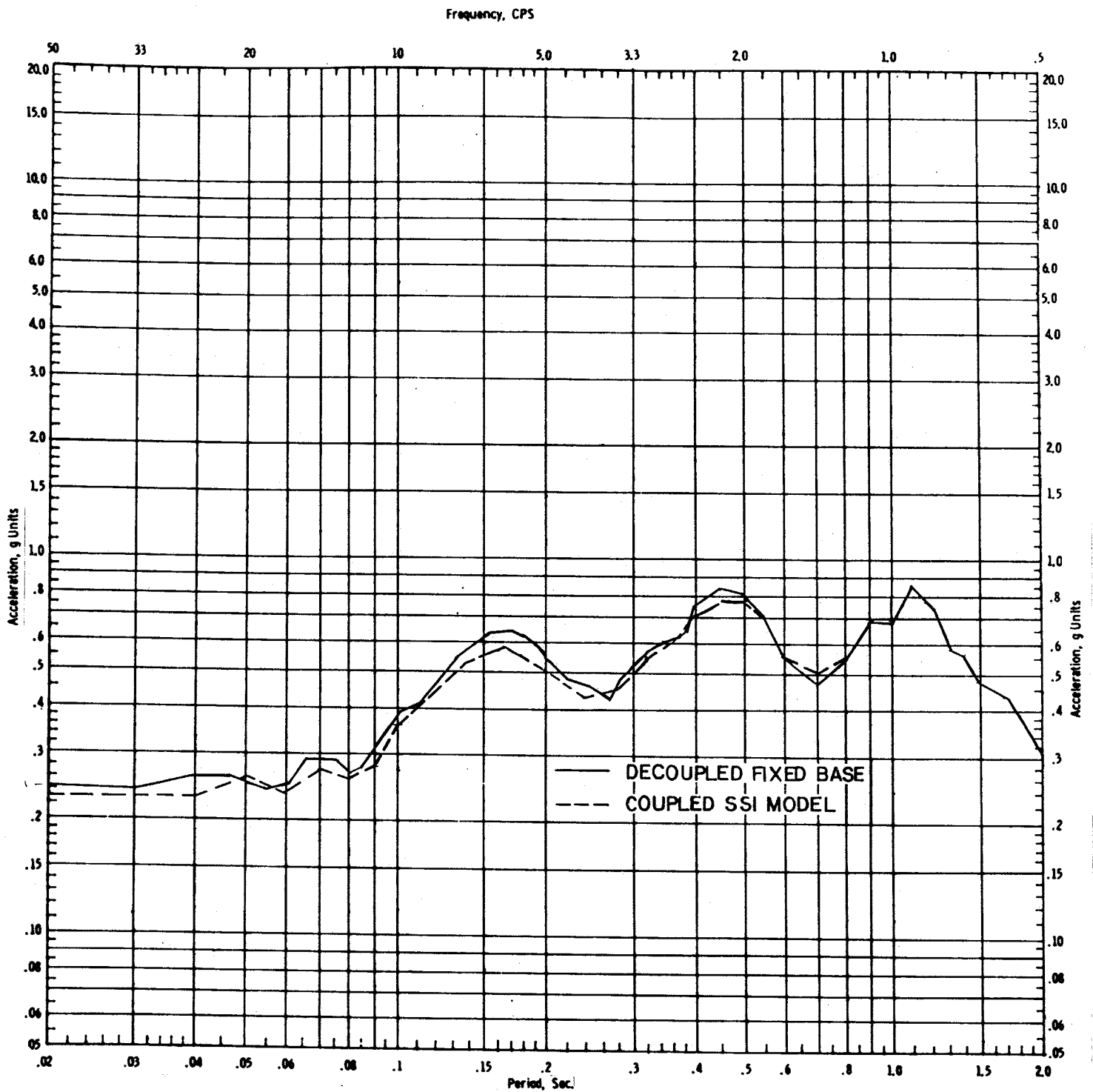
SSE RESPONSE SPECTRA CWSH -
ROOF ELEVATION 730'-0"
VERTICAL WALL



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Figure 3.7-95
(Q&R 220.24)

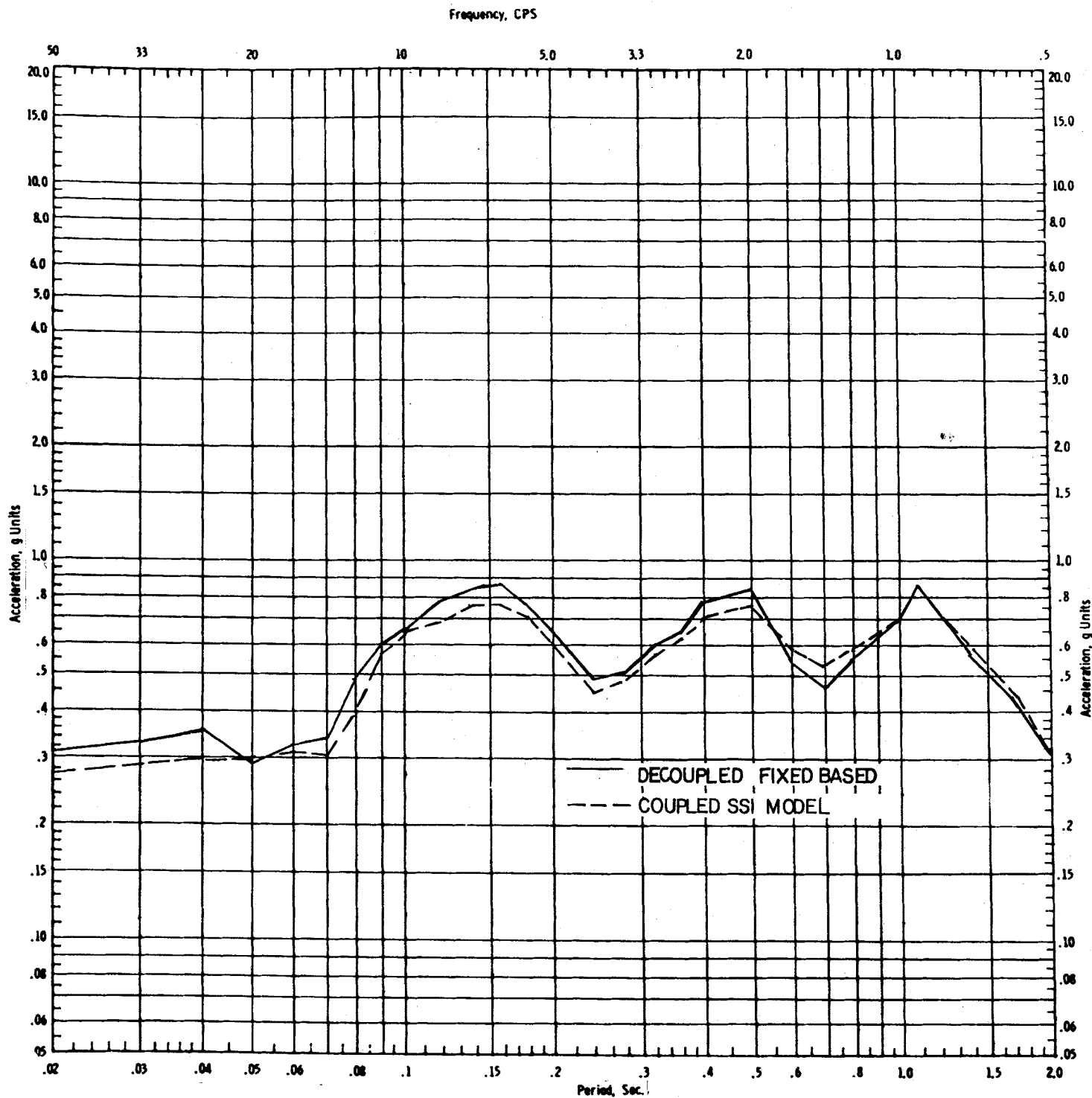
COMPARISON OF FREE FIELD
FOUNDATION LEVEL SPECTRA
FROM THE SHAKE AND SSI ANALYSIS



**CLINTON POWER STATION
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Figure 3.7-96
(Q&R 220.25)

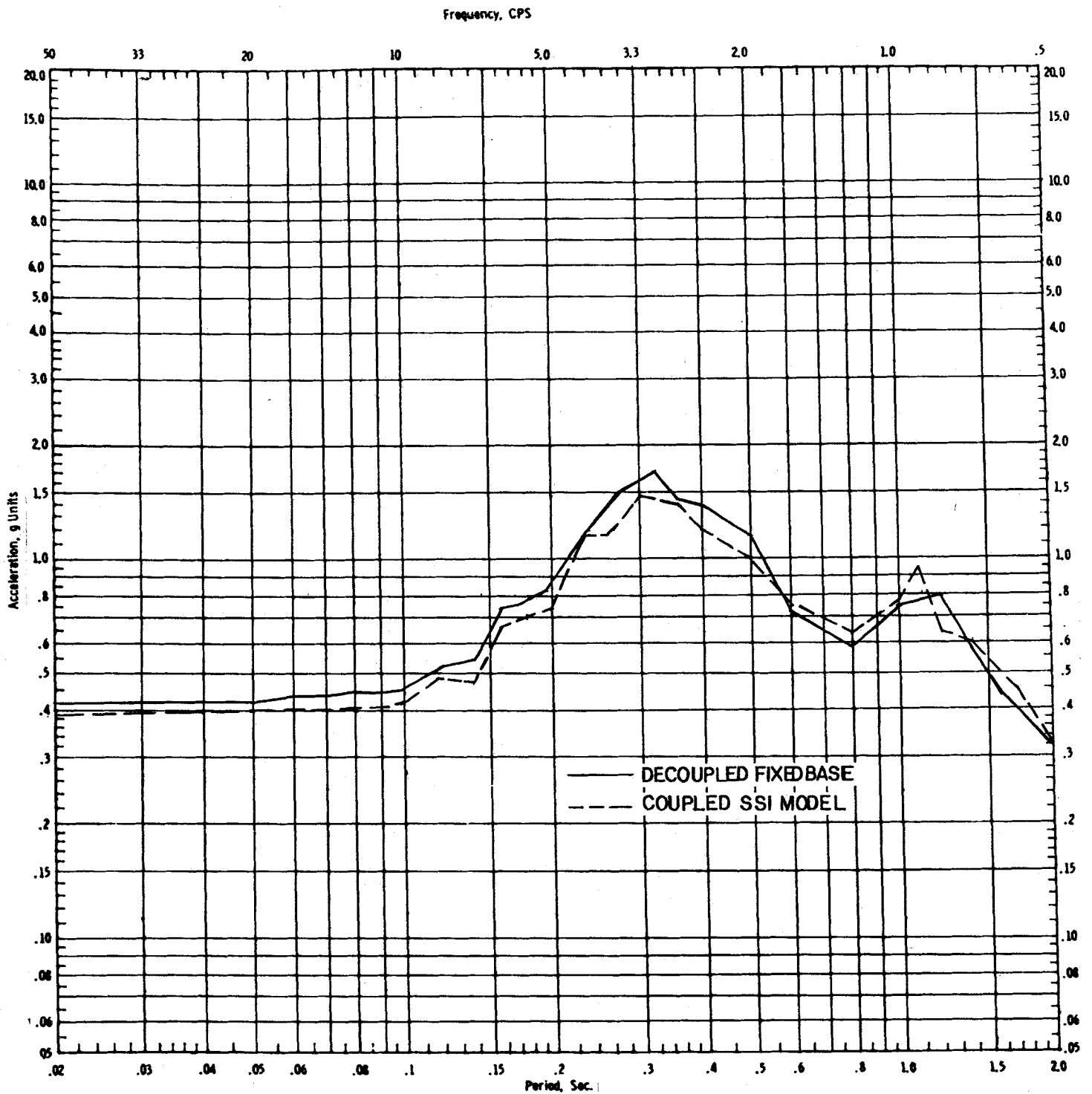
COMPARISON OF DECOUPLED FIXED BASE
AND COUPLED SSI MODEL RESPONSES
AT ELEVATION 781'-0"
(UPPER MEZZANINE FLOOR)



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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)

Security - Related Information Figure Withheld Under 10 CFR
2.390

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Figure 3.7-99
(Q&R 220.36)

DETAIL OF PIPE ATTACHMENT

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Figure 3.7-100
(Q&R 220.36)

ELECTRICAL MANHOLE
CONNECTION DETAILS

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2.390

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

Security - Related Information Figure Withheld Under 10 CFR 2.390

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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)

Security - Related Information Figure Withheld Under 10 CFR 2.390

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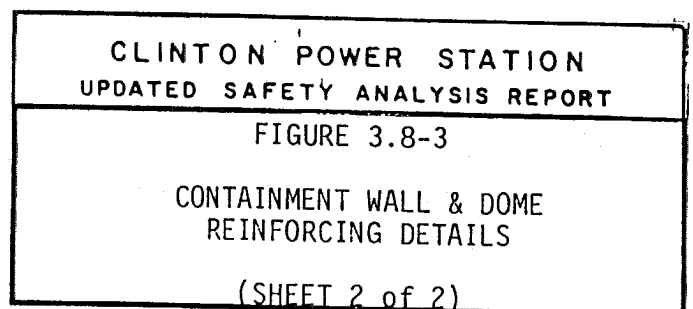
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FIGURE 3.8-2
CONTAINMENT FRAMING PLAN
(SHEET 6 of 6)

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

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 3.8-4

PERSONNEL AND EQUIPMENT HATCH
REINFORCING DETAILS (CONTAINMENT)

Security - Related Information Figure Withheld Under 10 CFR 2.390

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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>

Security - Related Information Figure Withheld Under 10 CFR 2.390

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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

Security - Related Information Figure Withheld Under 10 CFR 2.390

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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

**CLINTON POWER STATION
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FIGURE 3.8-10

CONTAINMENT DEVELOPED ELEVATION

(SHEET 3 of 4)

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FIGURE 3.8-10

CONTAINMENT DEVELOPED ELEVATION

(SHEET 4 of 4)

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FIGURE 3.8-11

CONTAINMENT BUILDING PENETRATIONS

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October 2001

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FIGURE 3.8-12

ELECTRICAL PENETRATIONS

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Security - Related Information Figure Withheld Under 10 CFR 2.390

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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)

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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)

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CLINTON POWER STATION
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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

**CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT**

FIGURE 3.8-17

FORCE PLOTS - CONTAINMENT WALL

(SHEET 3 of 4)

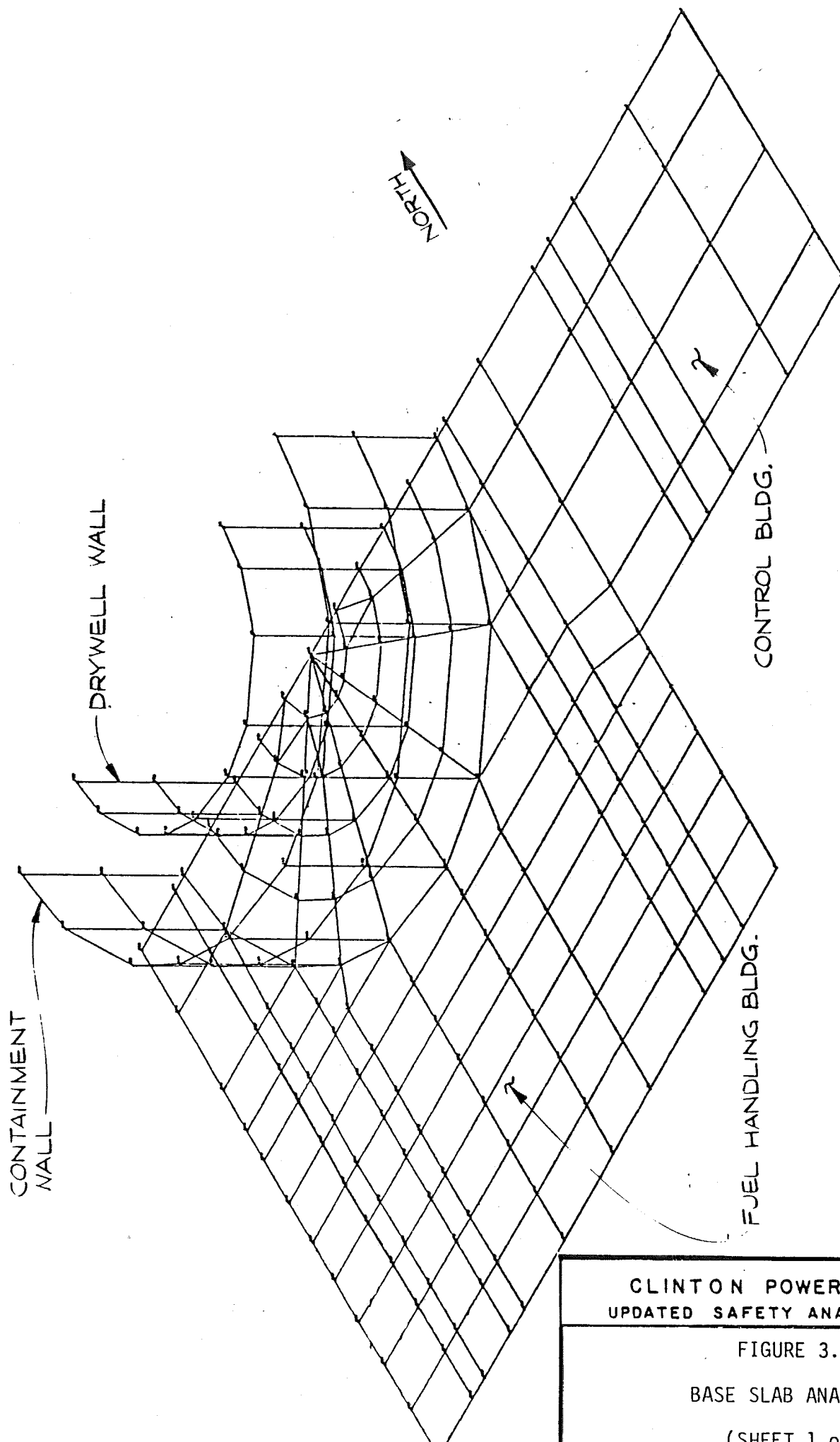
Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.8-17

FORCE PLOTS - CONTAINMENT WALL

(SHEET 4 of 4)

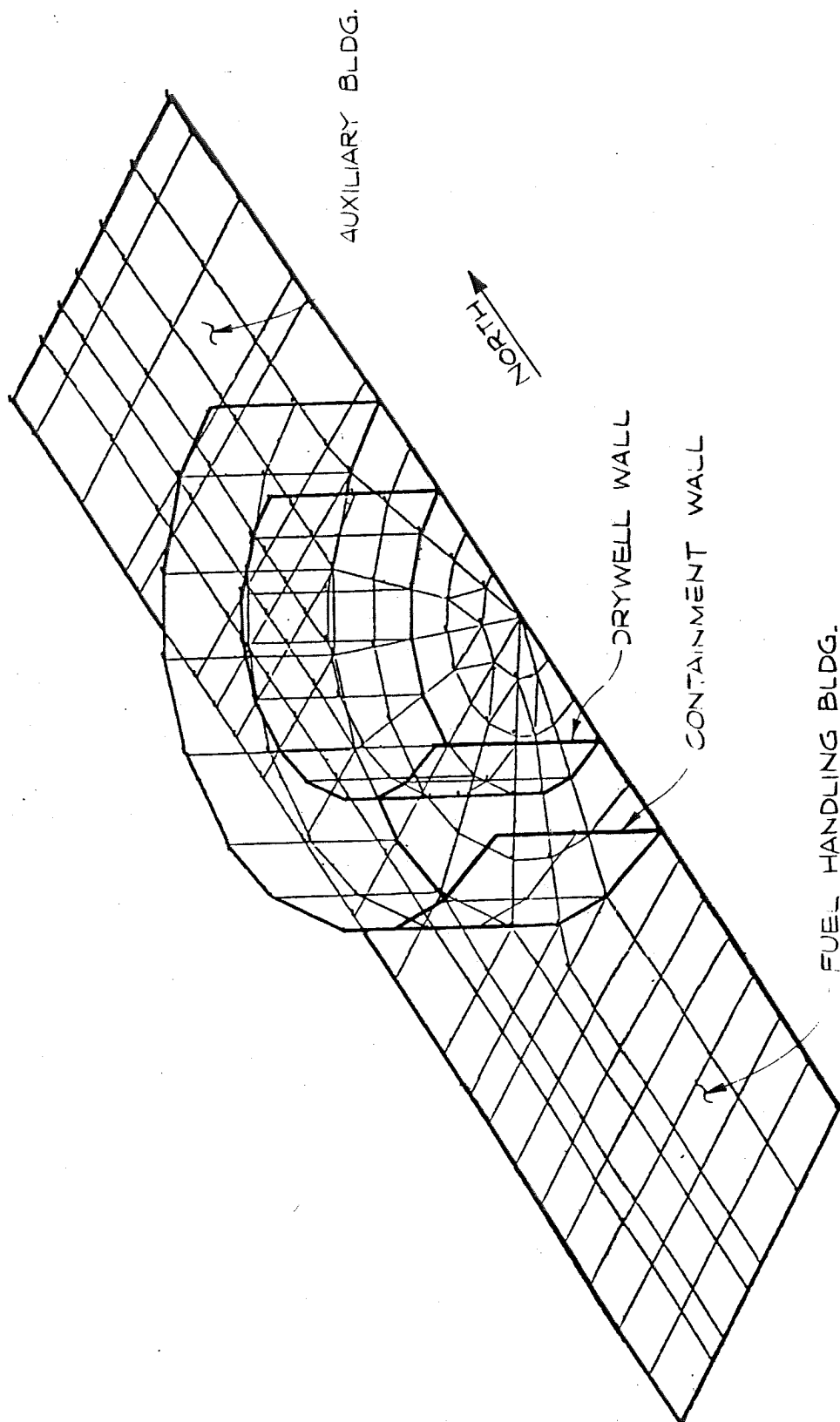


CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.8-18

BASE SLAB ANALYTICAL

(SHEET 1 of 2)

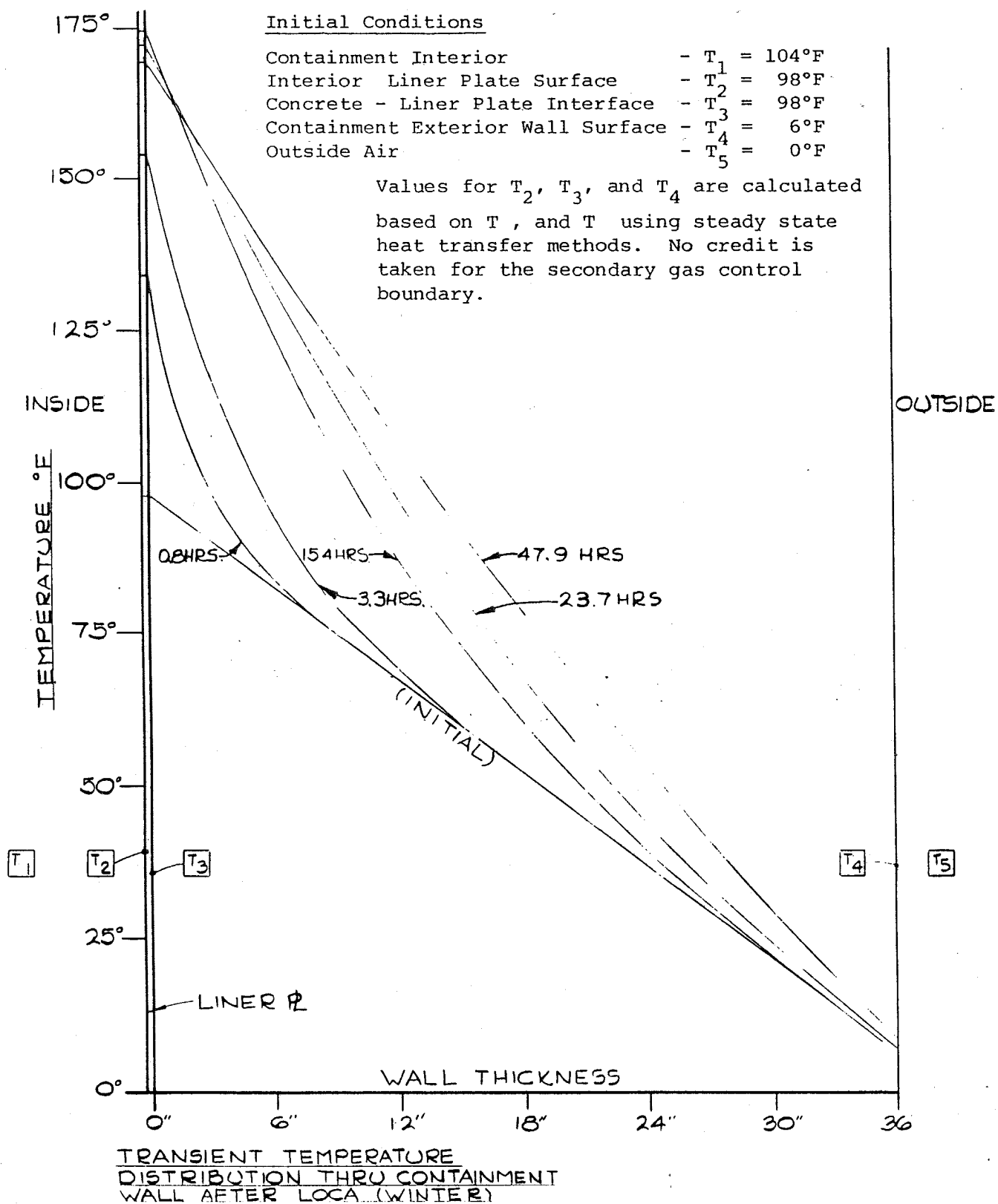


CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.8-18

BASE SLAB ANALYTICAL

(SHEET 2 of 2)

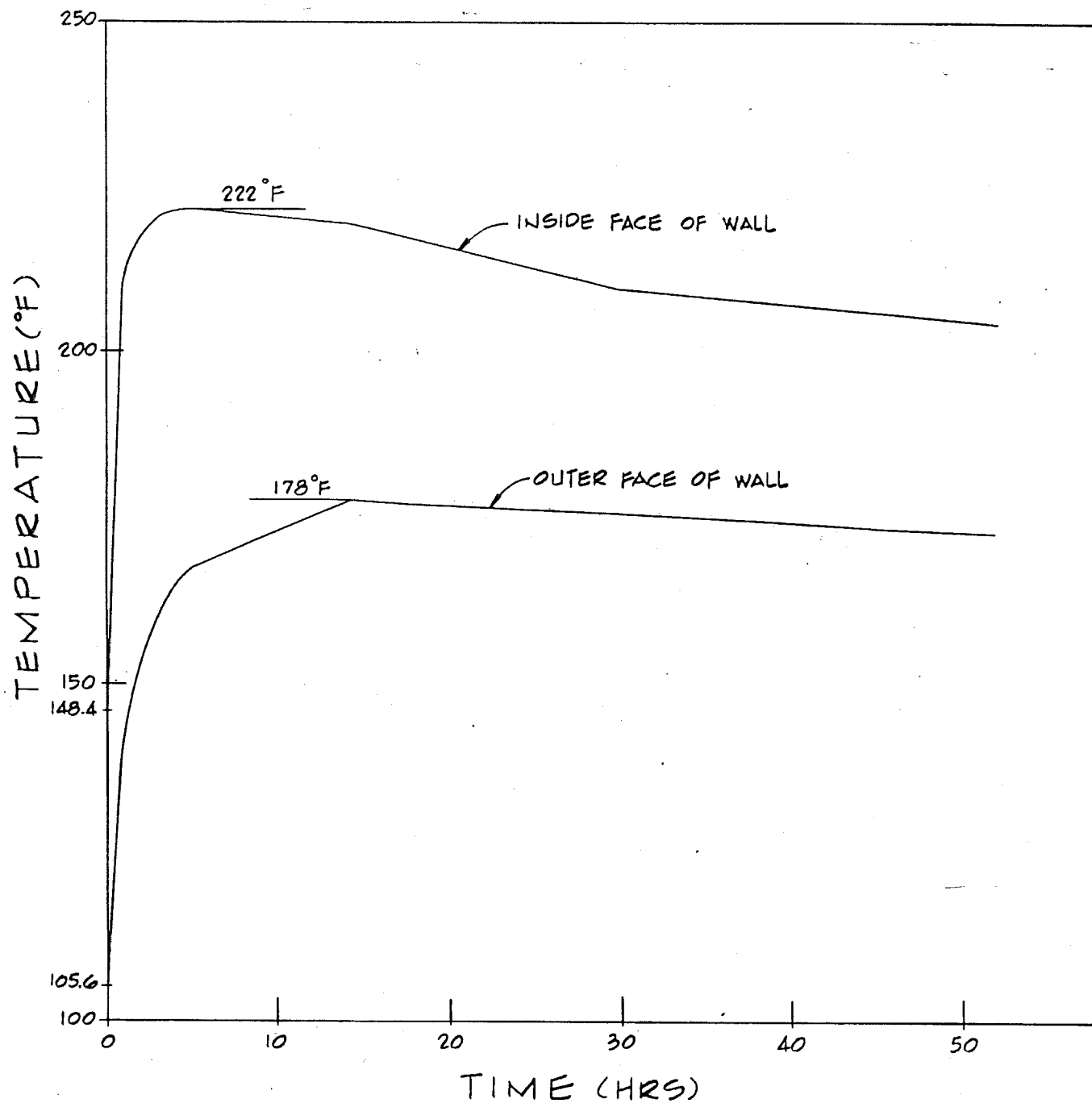


CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.8-19

THERMAL GRADIENTS

(SHEET 1 of 3)

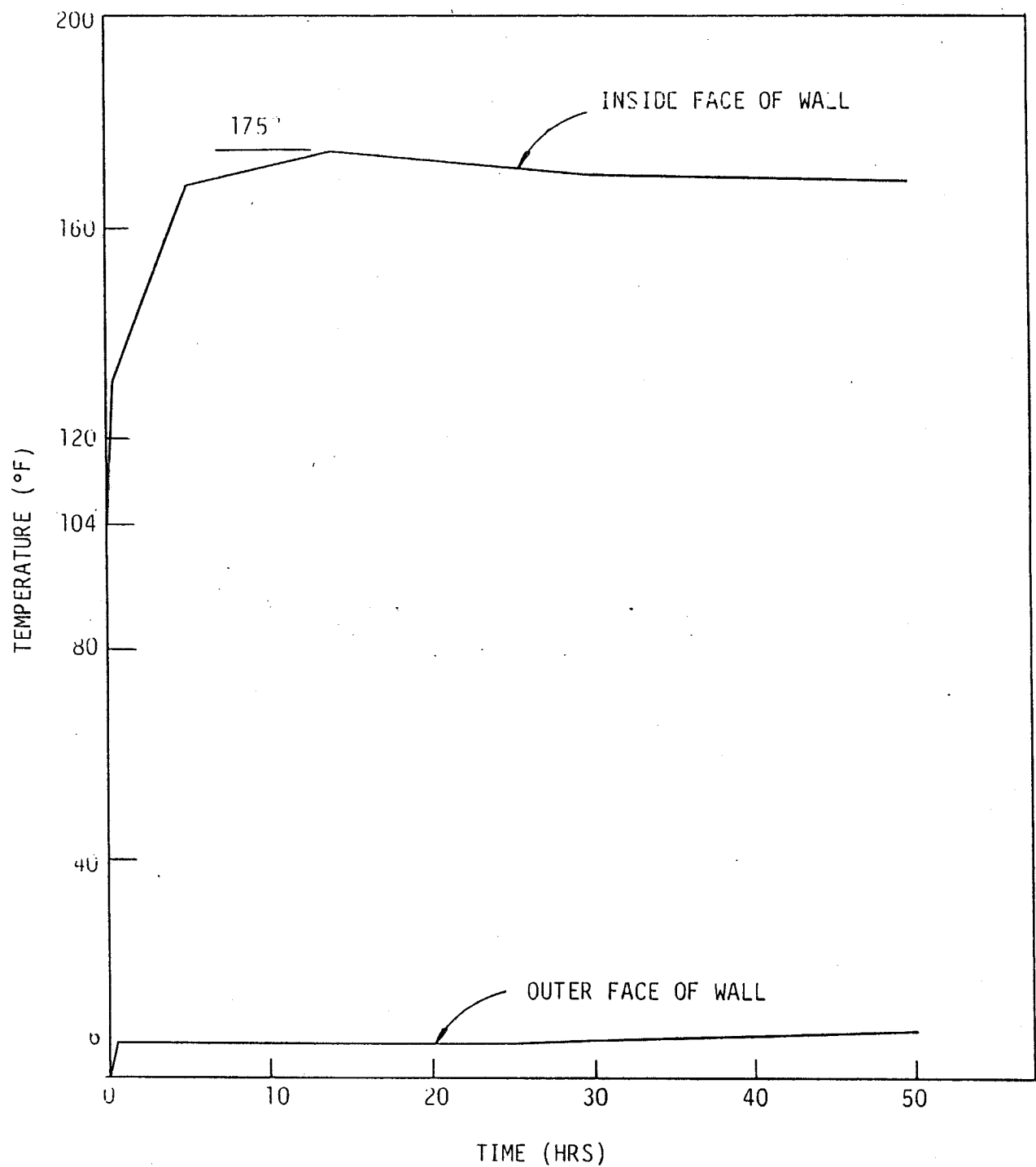


CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.8-19

THERMAL GRADIENTS

(SHEET 2 of 3)

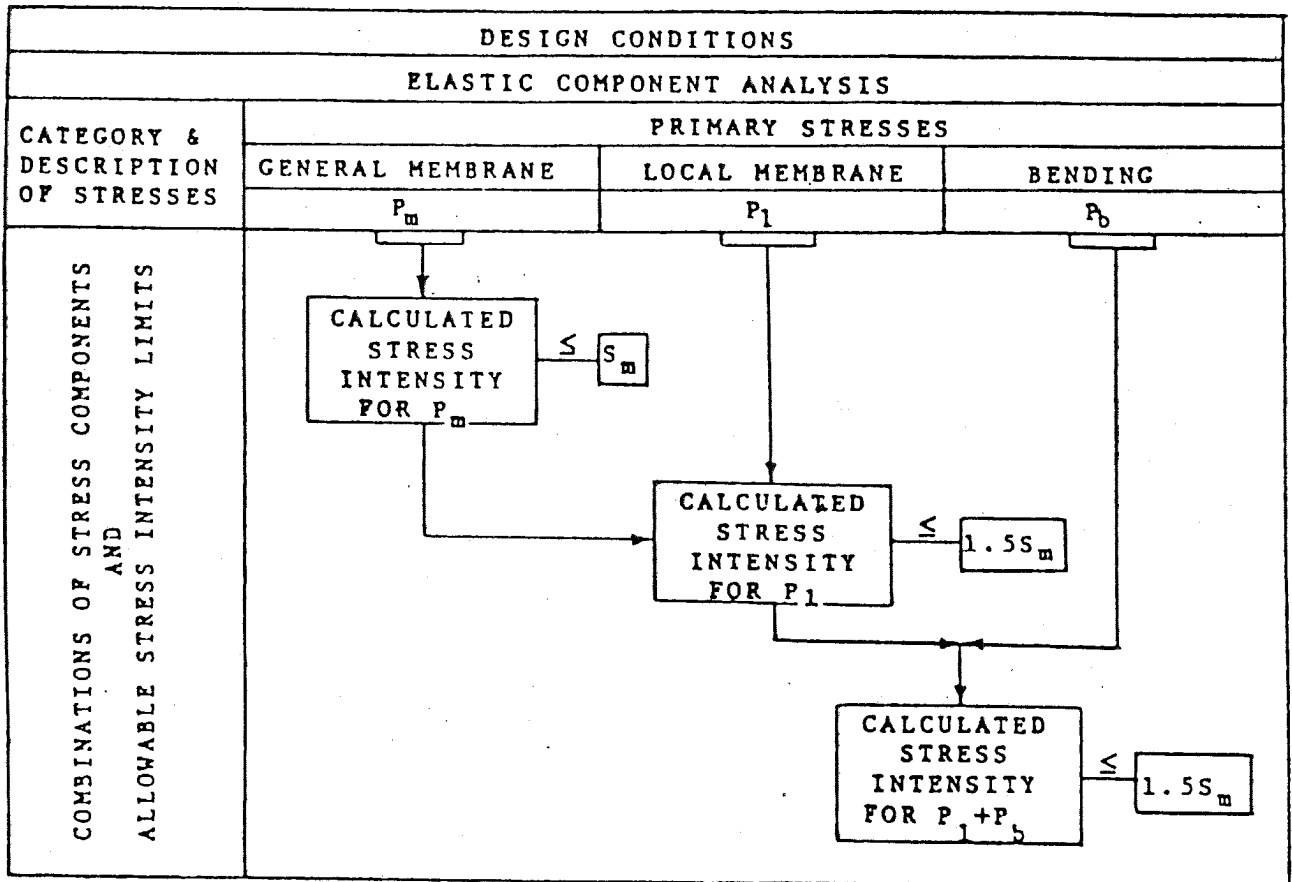


CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.8-19

THERMAL GRADIENTS

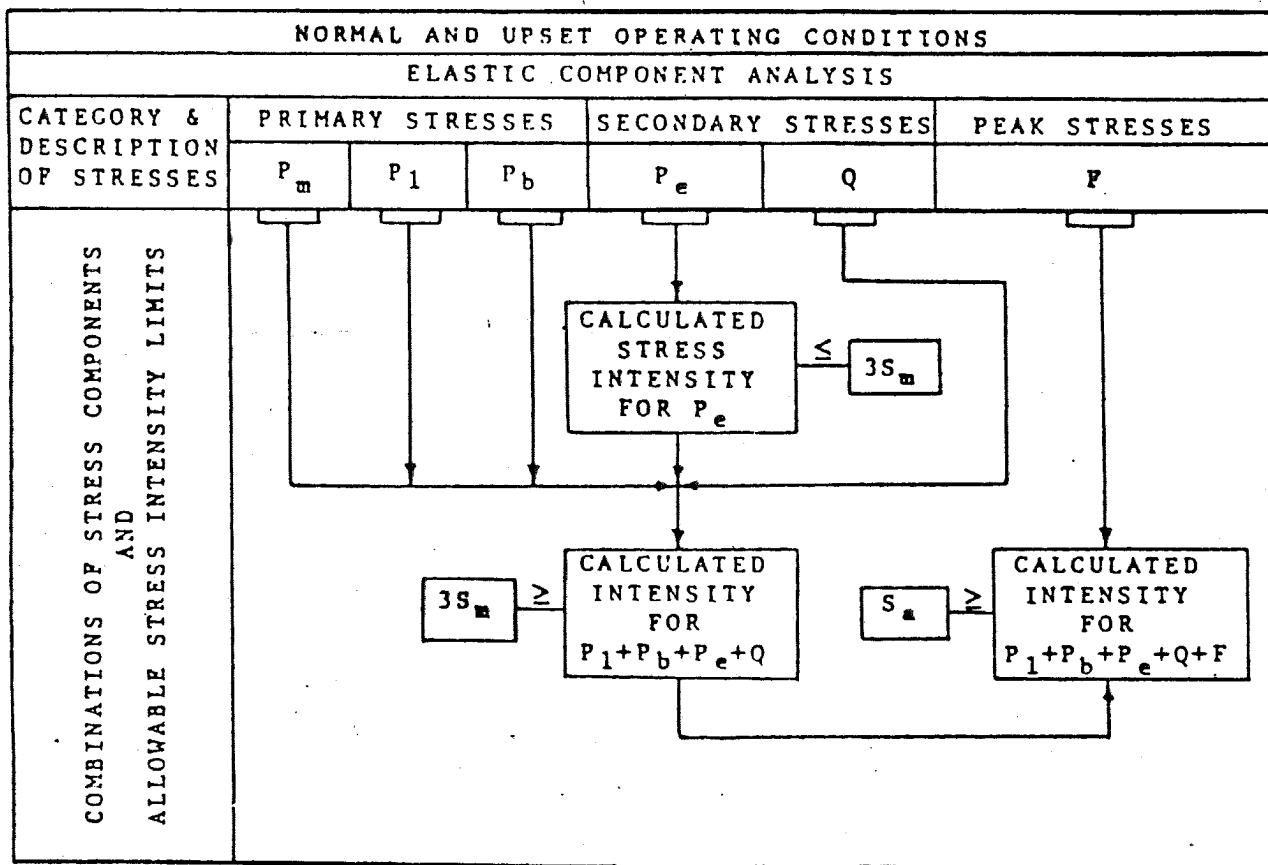
(SHEET 3 of 3)



CLINTON POWER STATION
 UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.8-20

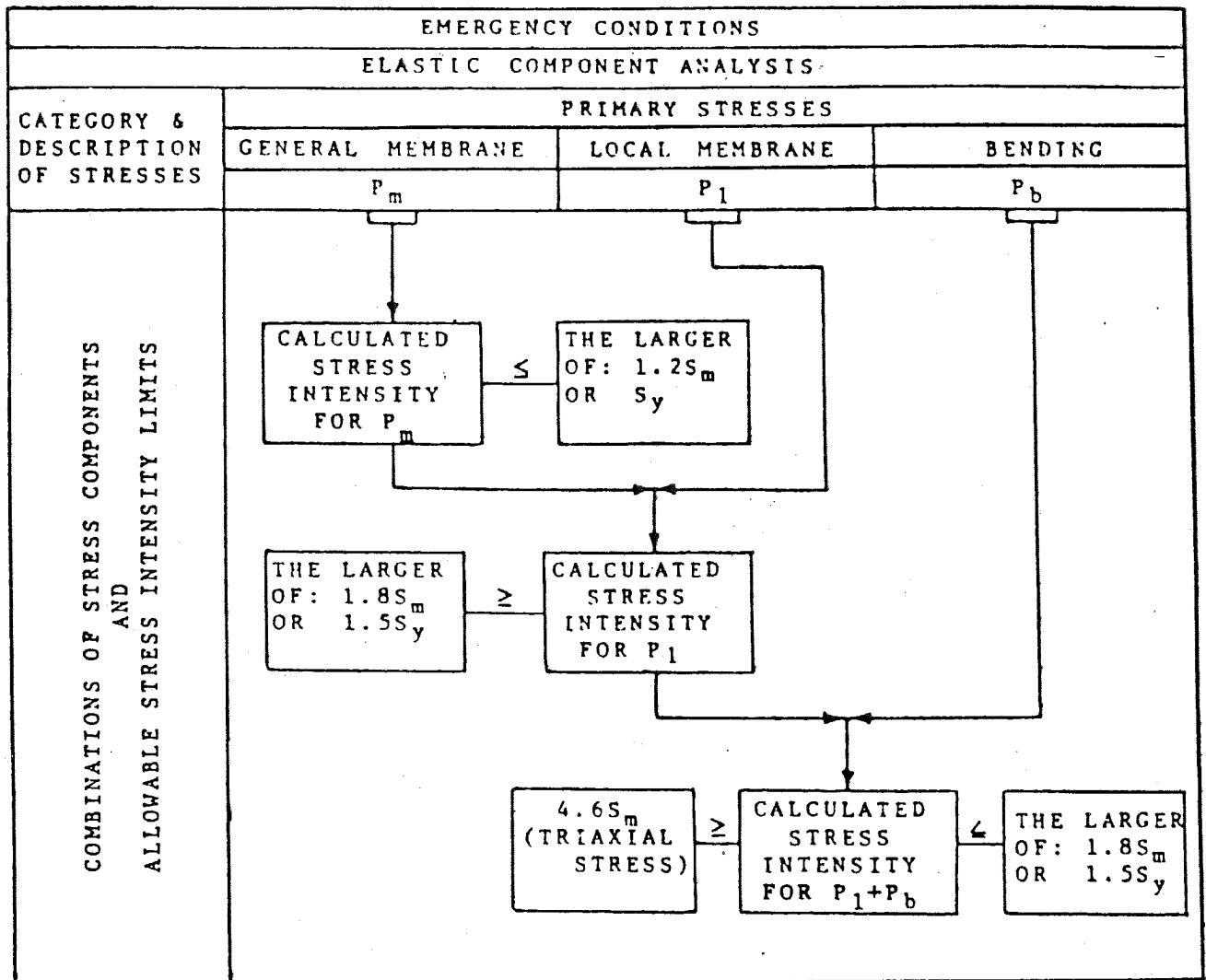
STRESS CATEGORIES AND STRESS INTENSITY
 LIMITS FOR DESIGN CONDITIONS



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.8-21

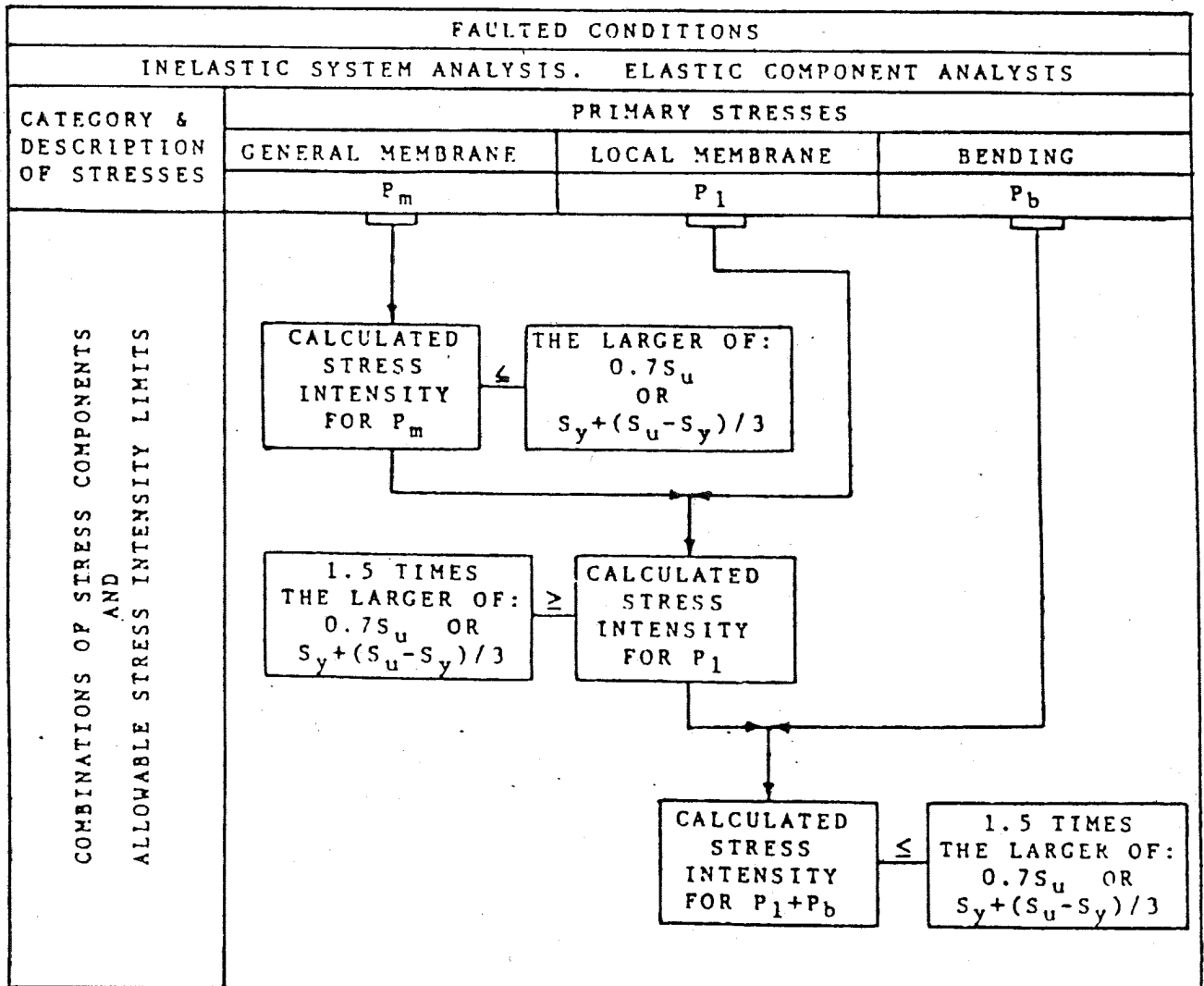
STRESS CATEGORIES AND STRESS INTENSITY
LIMITS FOR NORMAL AND UPSET CONDITIONS



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.8-22

STRESS CATEGORIES AND STRESS INTENSITY
LIMITS FOR EMERGENCY CONDITIONS



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

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

CLINTON POWER STATION UPDATED SAFETY ANALYSIS REPORT
FIGURE 3.8-25 REACTOR SHIELD WALL (SHEET 2 of 2)

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.8-26

REACTOR PEDESTAL DETAILS

(SHEET 1 of 2)

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.8-26

REACTOR PEDESTAL DETAILS

(SHEET 2 of 2)

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION UPDATED SAFETY ANALYSIS REPORT
FIGURE 3.8-27 DRYWELL REINFORCING DETAILS

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION UPDATED SAFETY ANALYSIS REPORT
FIGURE 3.8-28 PERSONNEL & EQUIPMENT HATCHES REINFORCING DETAILS - DRYWELL WALL

Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
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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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CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.8-32

REACTOR PEDESTAL DEVELOPED

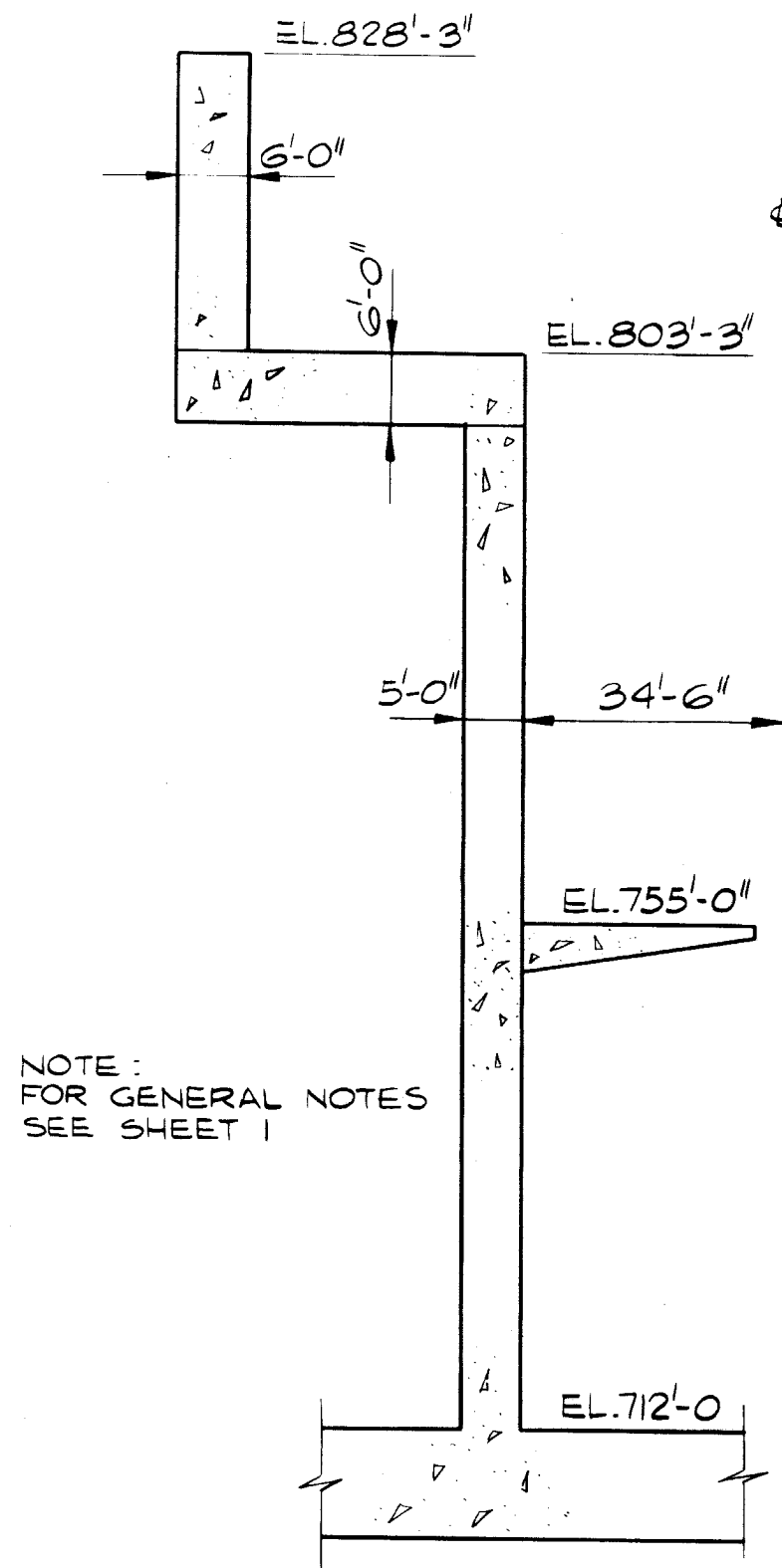
Security - Related Information Figure Withheld Under 10 CFR 2.390

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

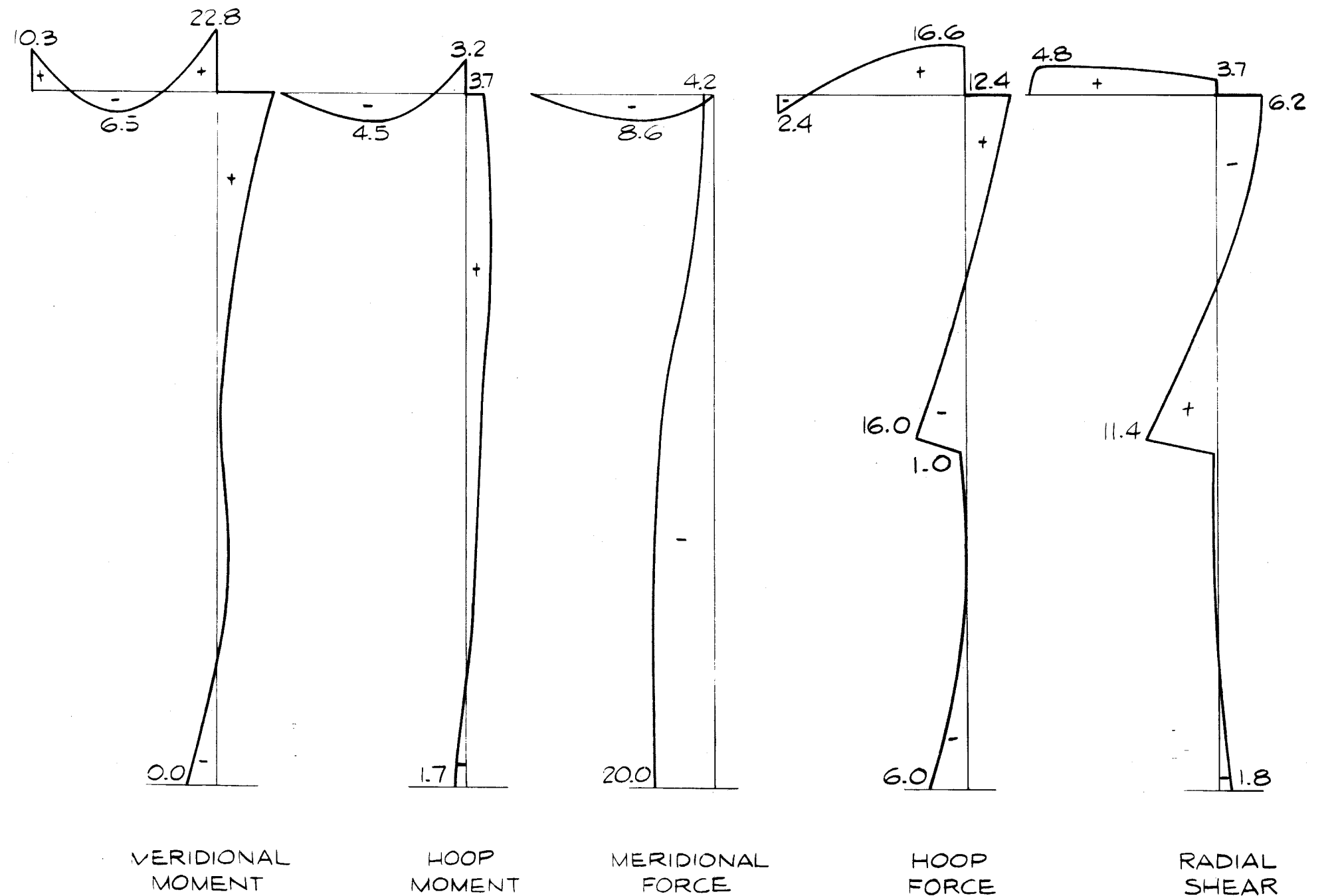
FIGURE 3.8-33

FORCE & MOMENT PLOTS - DRYWELL

(SHEET 1 of 4)



CONTAINMENT



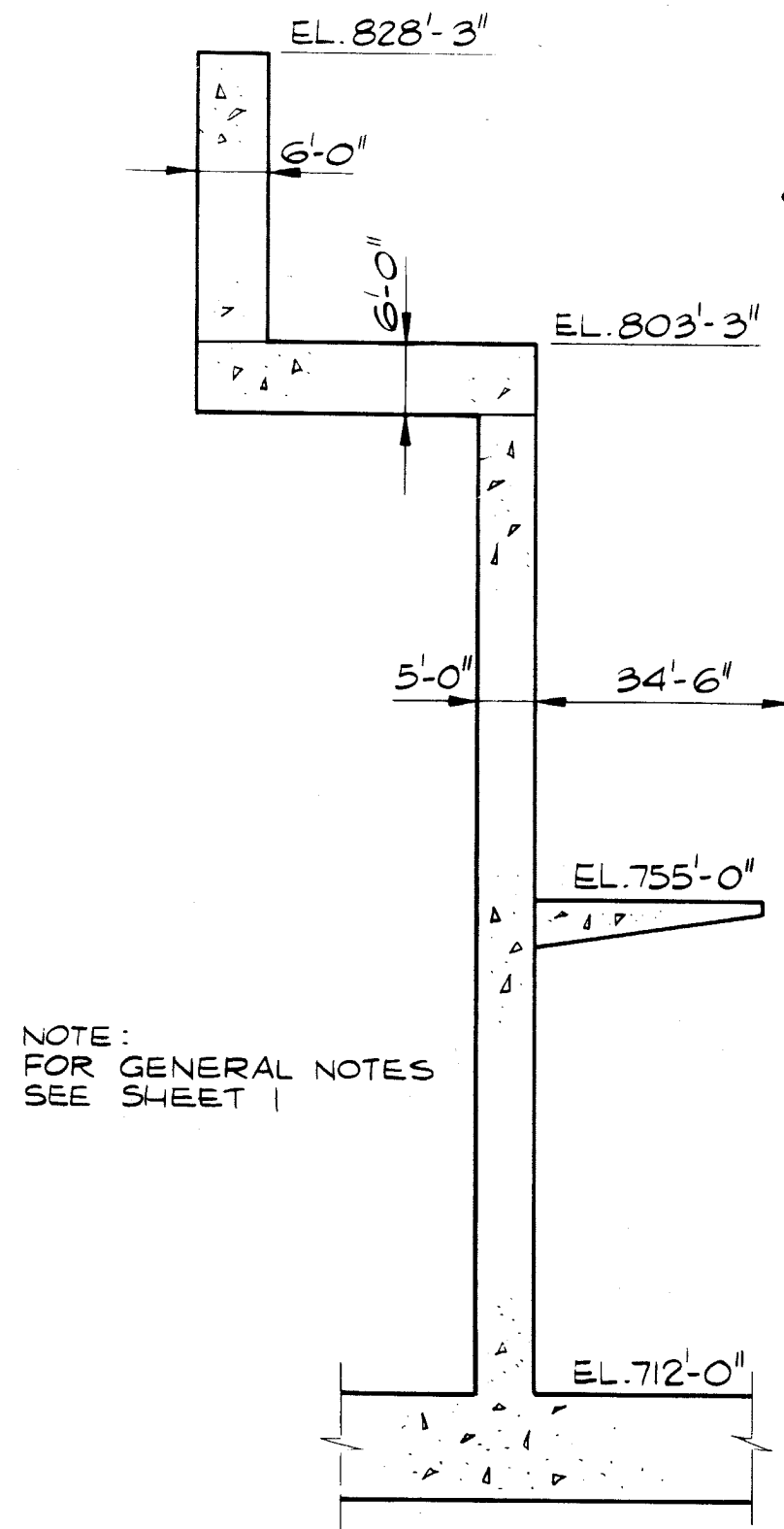
POOL WATER LOADING (H)
AZIMUTH 90°

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.8-33

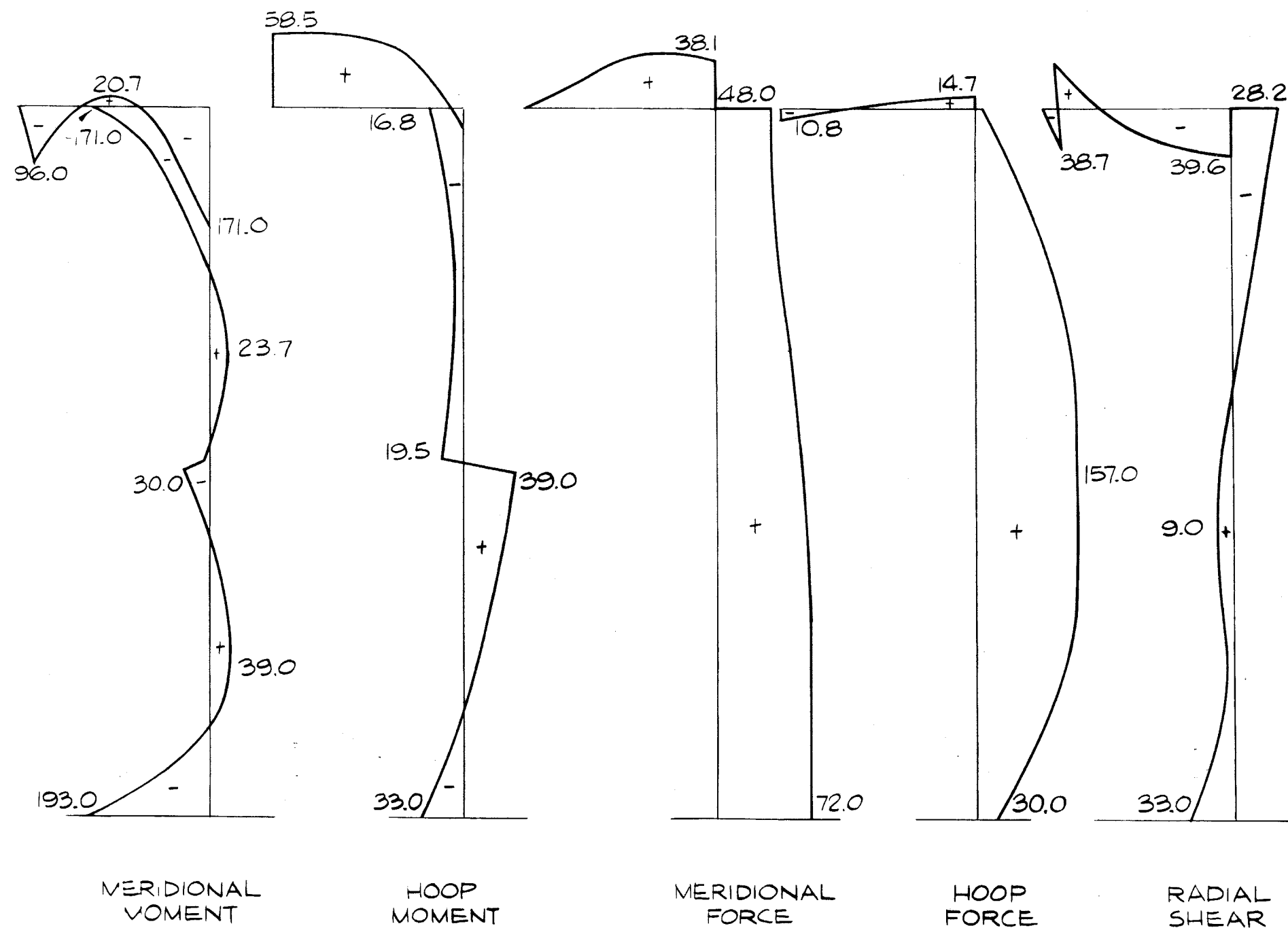
FORCE & MOMENT PLOTS - DRYWELL

(SHEET 2 of 4)



NOTE:
FOR GENERAL NOTES
SEE SHEET 1

CONTAINMENT



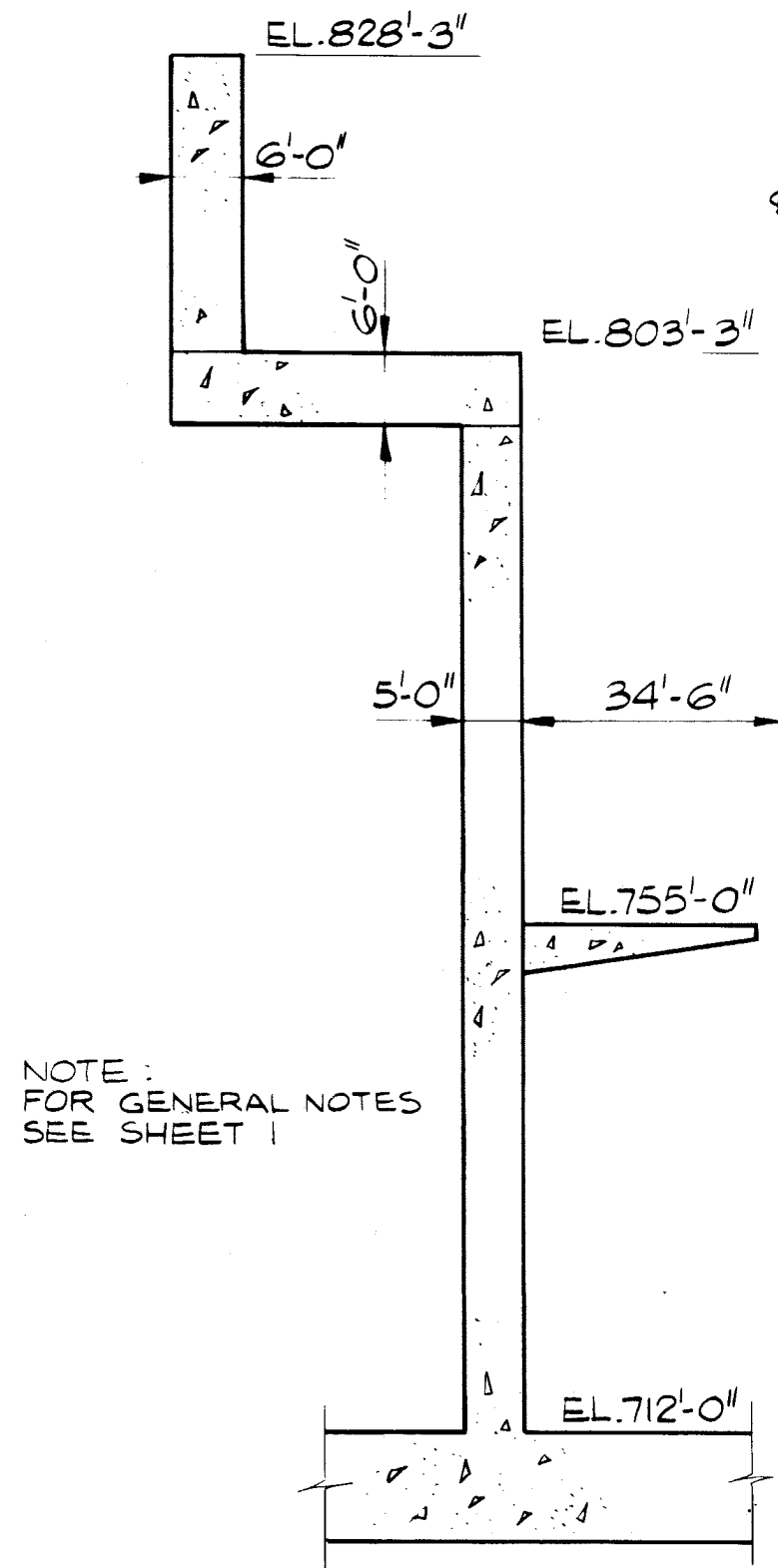
ACCIDENT PRESSURE (P_a) LOADING
AZIMUTH 90°

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

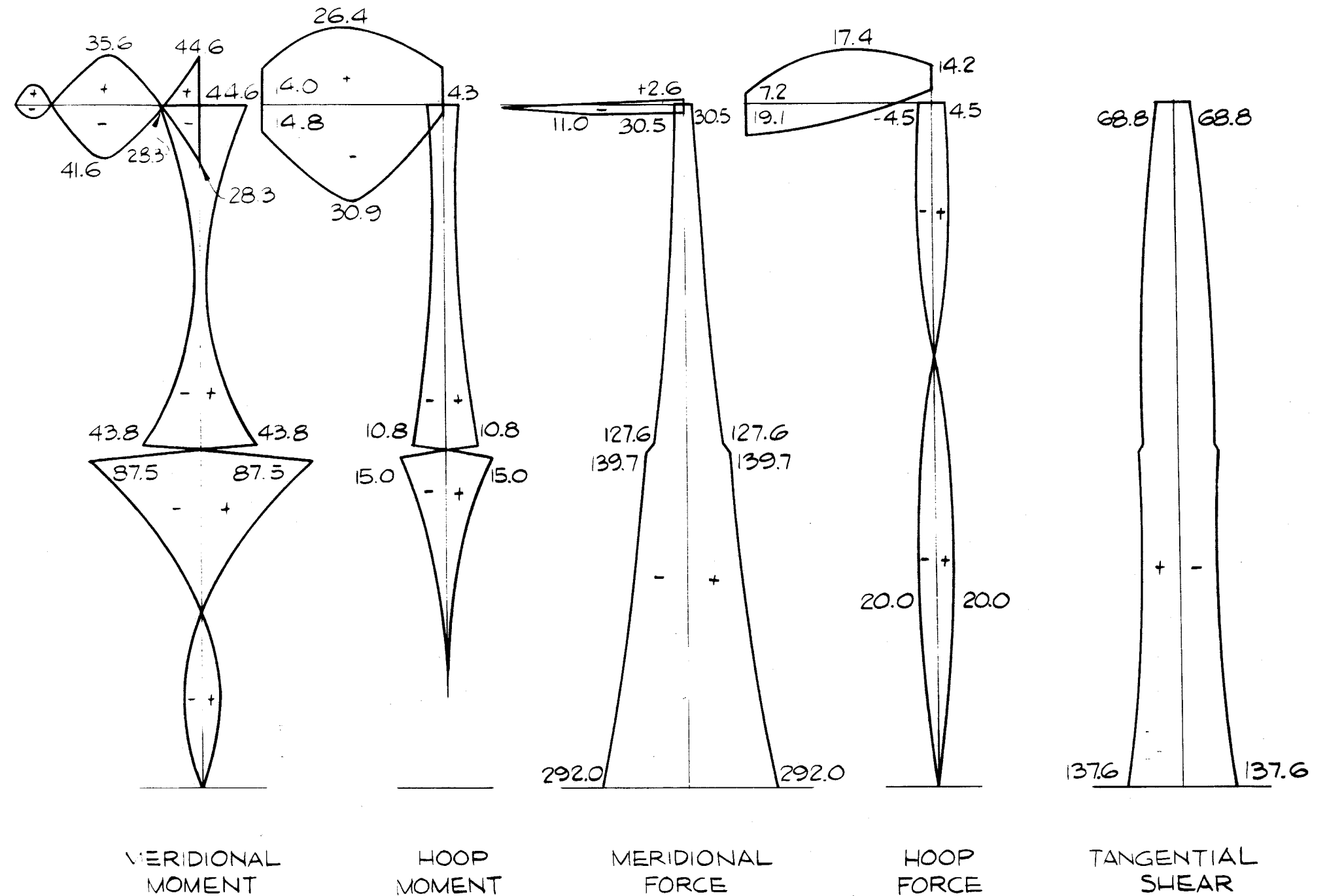
FIGURE 3.8-33

FORCE & MOMENT PLOTS - DRYWELL

(SHEET 3 of 4)



CONTAINMENT



SAFE SHUTDOWN EARTHQUAKE LOADING (E')

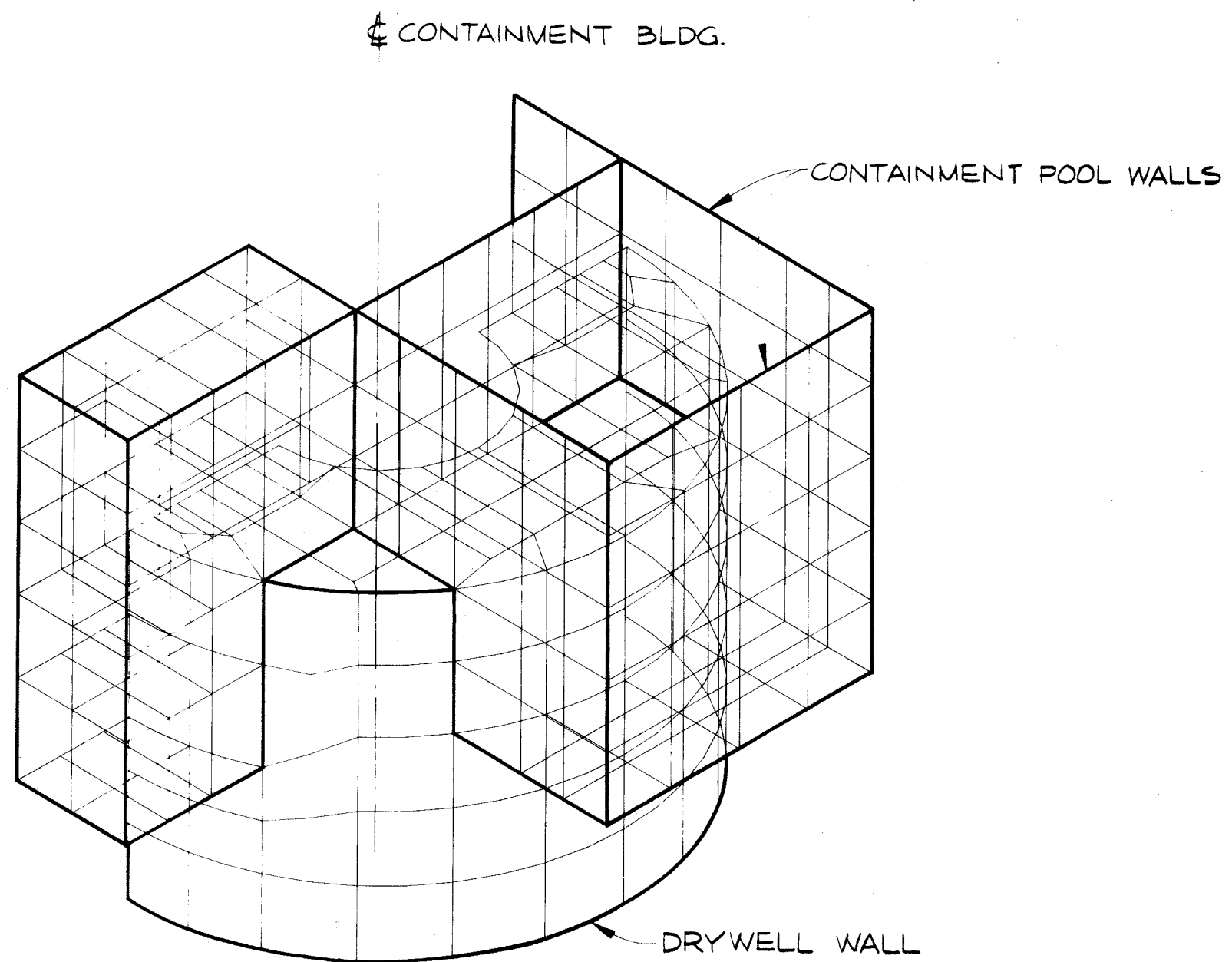
AZIMUTH 90°

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.8-33

FORCE & MOMENT PLOTS - DRYWELL

(SHEET 4 of 4)



CLINTON POWER STATION
 UPDATED SAFETY ANALYSIS REPORT

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

CLINTON POWER STATION UPDATED SAFETY ANALYSIS REPORT
FIGURE 3.8-36 TYPICAL BEAM REINFORCING DETAILS

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 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

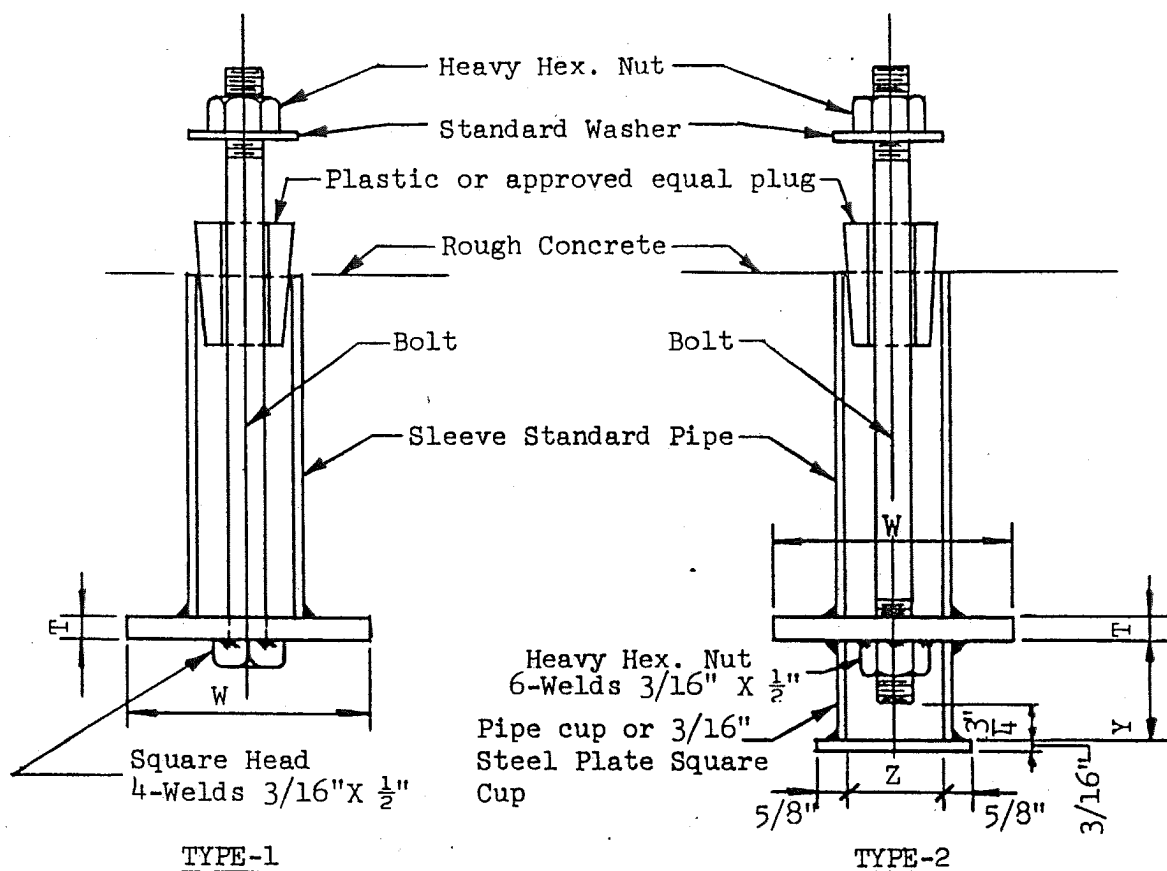
CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

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)



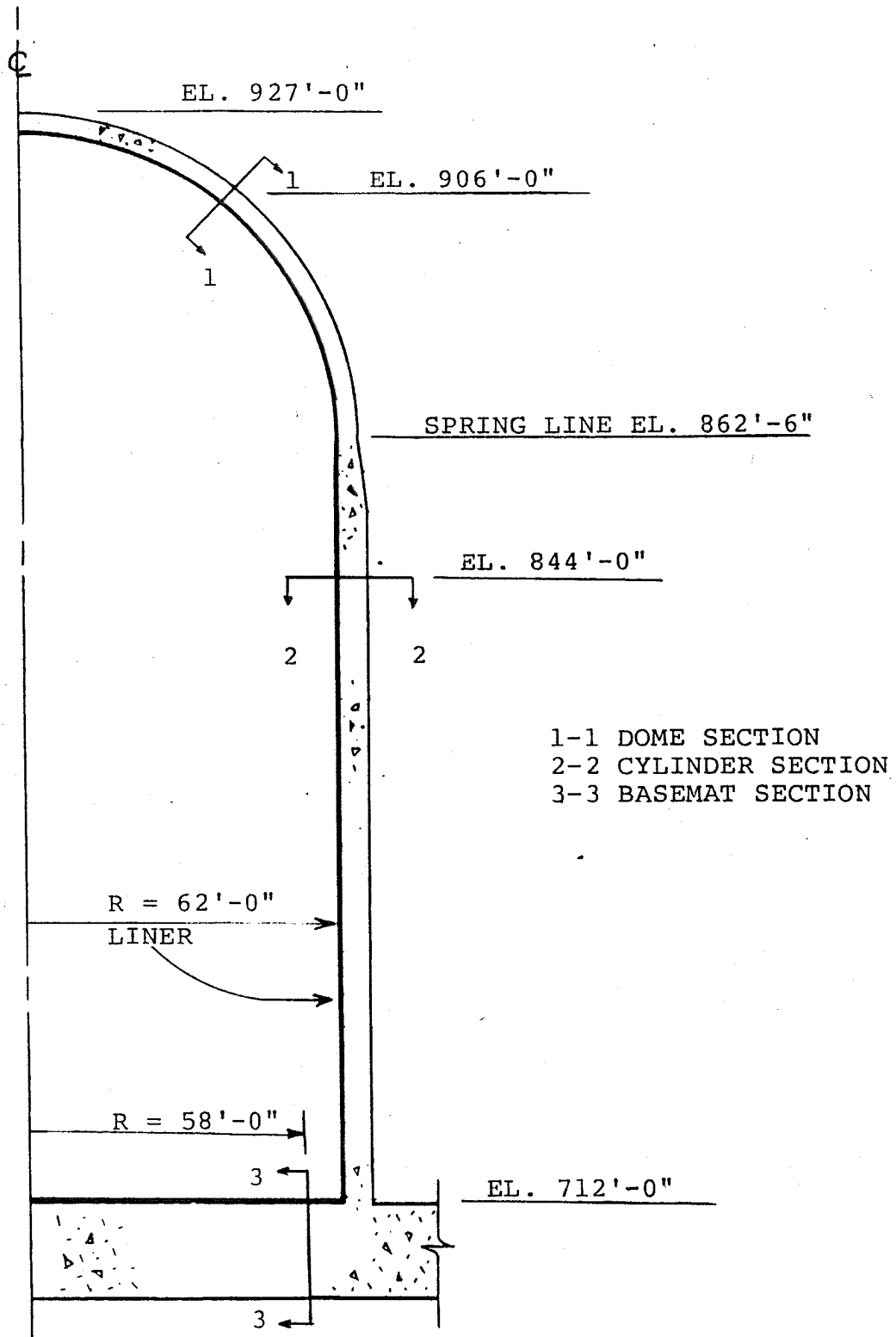
TYPE 1 AND 2 BOLTS												
BOLT DIAM.	5/8"	3/4"	7/8"	1"	1 1/4"	1 1/2"	1 3/4"	2"	2 1/4"	2 1/2"	2 3/4"	3"
SLEEVE	1 1/2"	2"	2"	2 1/2"	3"	3"	3 1/2"	3 1/2"	4"	5"	5"	5"
SQUARE PLATE WASHER	T	3/8"	3/8"	1/2"	1/2"	5/8"	3/4"	3/4"	3/4"	7/8"	7/8"	1"
	W	3 1/2"	4"	5"	5"	6"	6"	8"	8"	9"	10"	11"
CUP	Z	1 1/2"	2"	2"	2 1/2"	3"	3"	3 1/2"	4"	5"	5"	5"
	Y	2"	2 1/2"	2 1/2"	2 1/2"	3"	3"	3 1/2"	3 1/2"	4"	4"	4 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
UPDATED SAFETY ANALYSIS REPORT

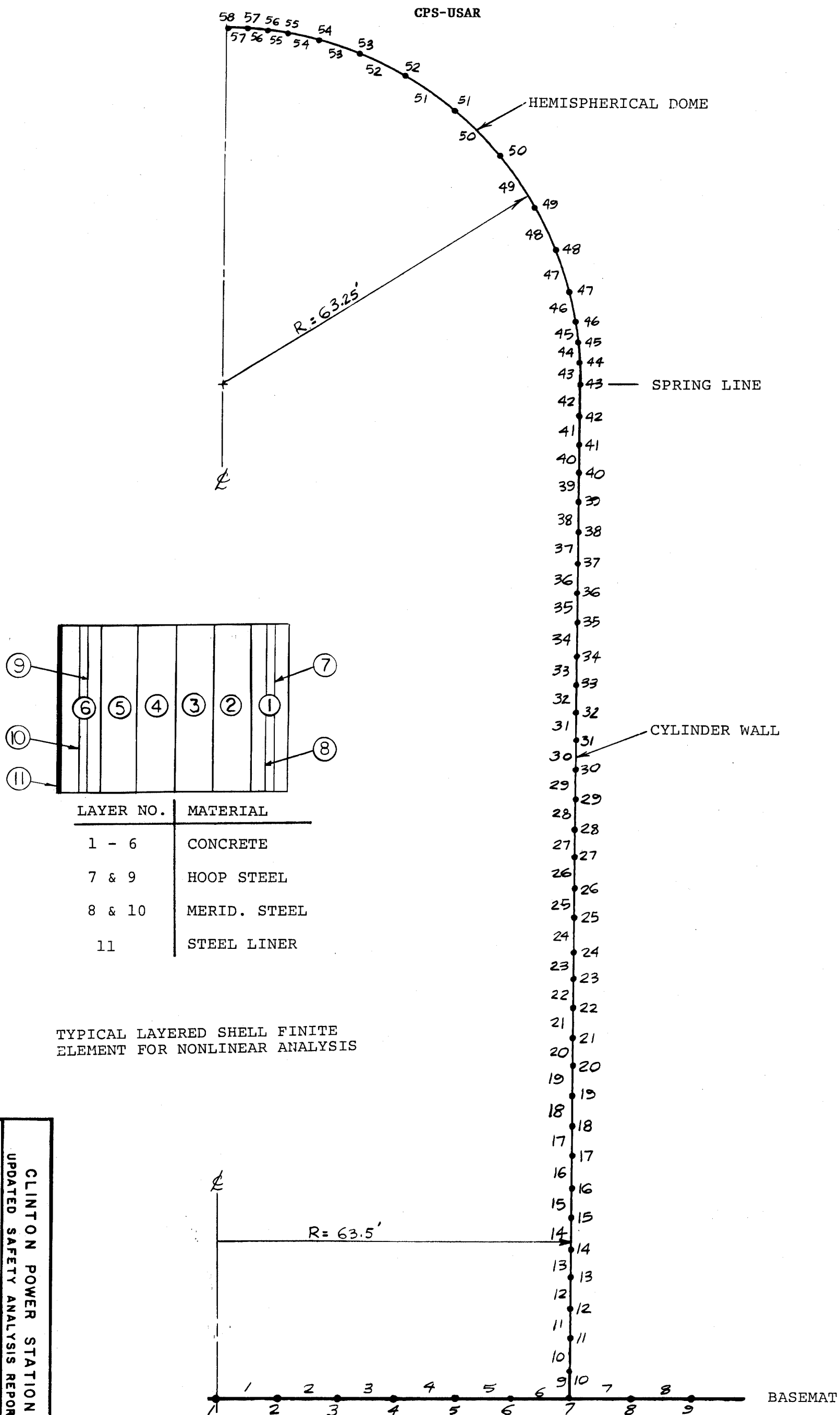
FIGURE 3.8-38

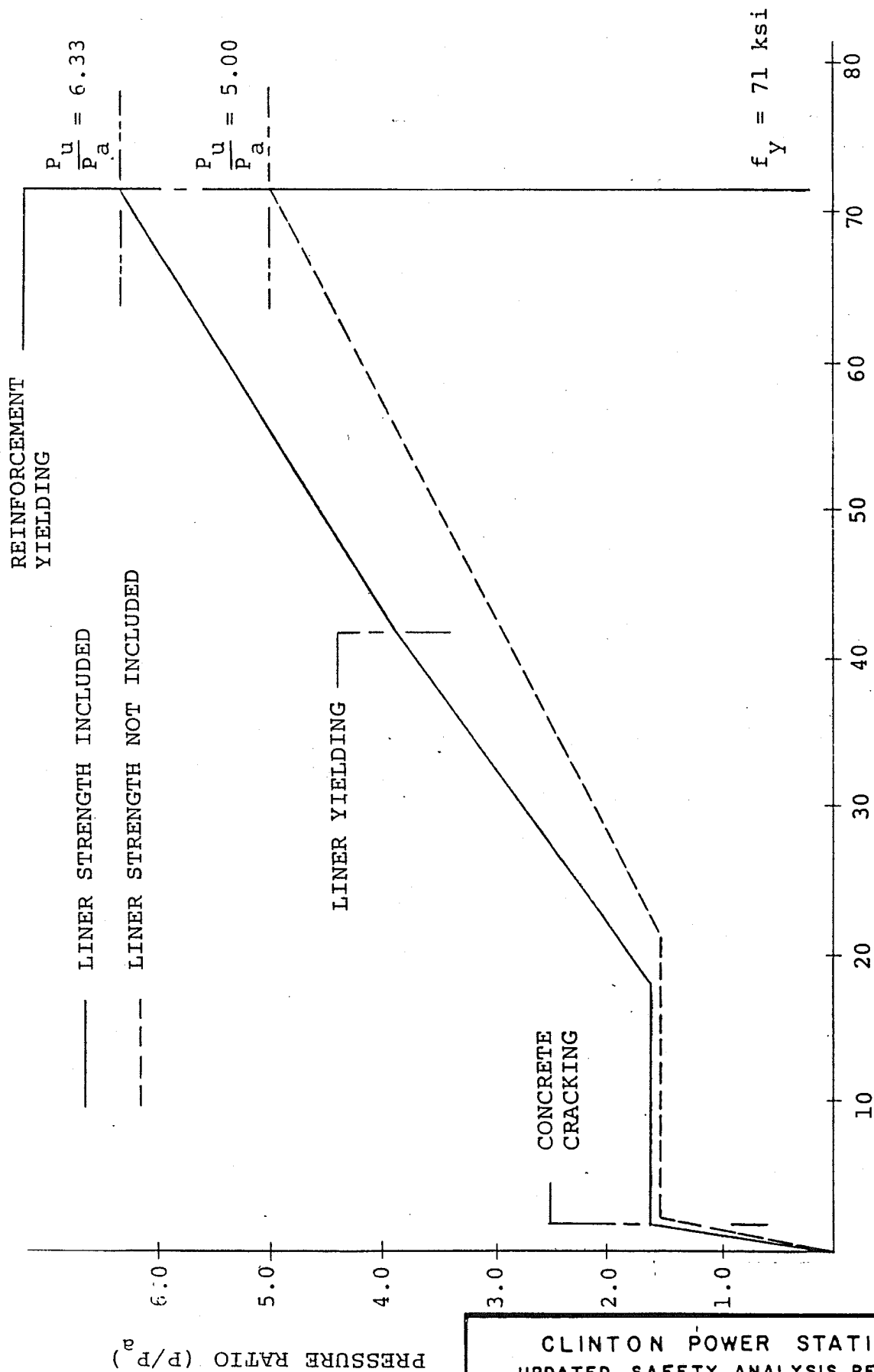
TYPICAL ANCHOR BOLT DETAILS FOR
SEISMIC CATEGORY I EQUIPMENT

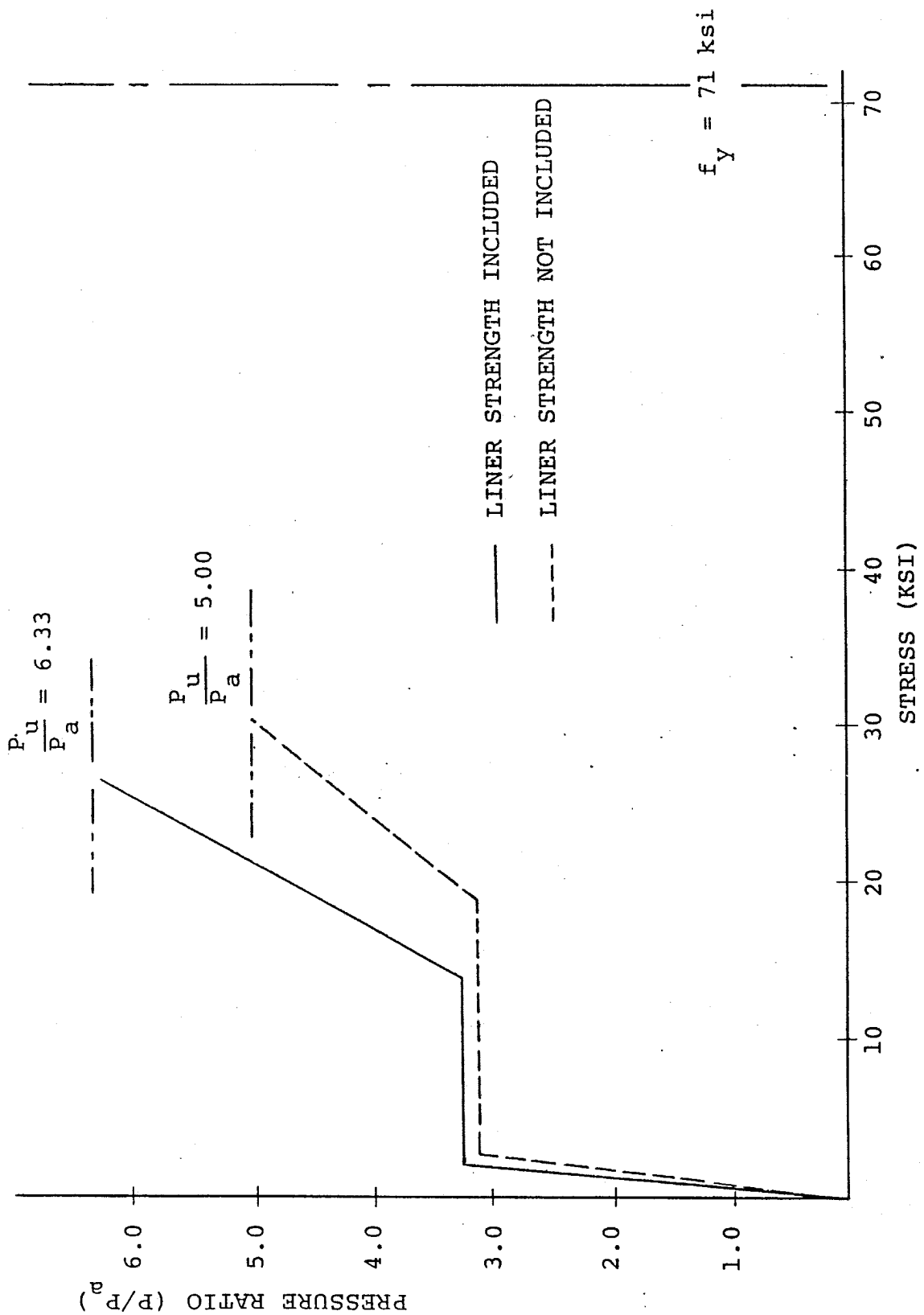


CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.8-39
CRITICAL SECTIONS
IN CONTAINMENT STRUCTURE

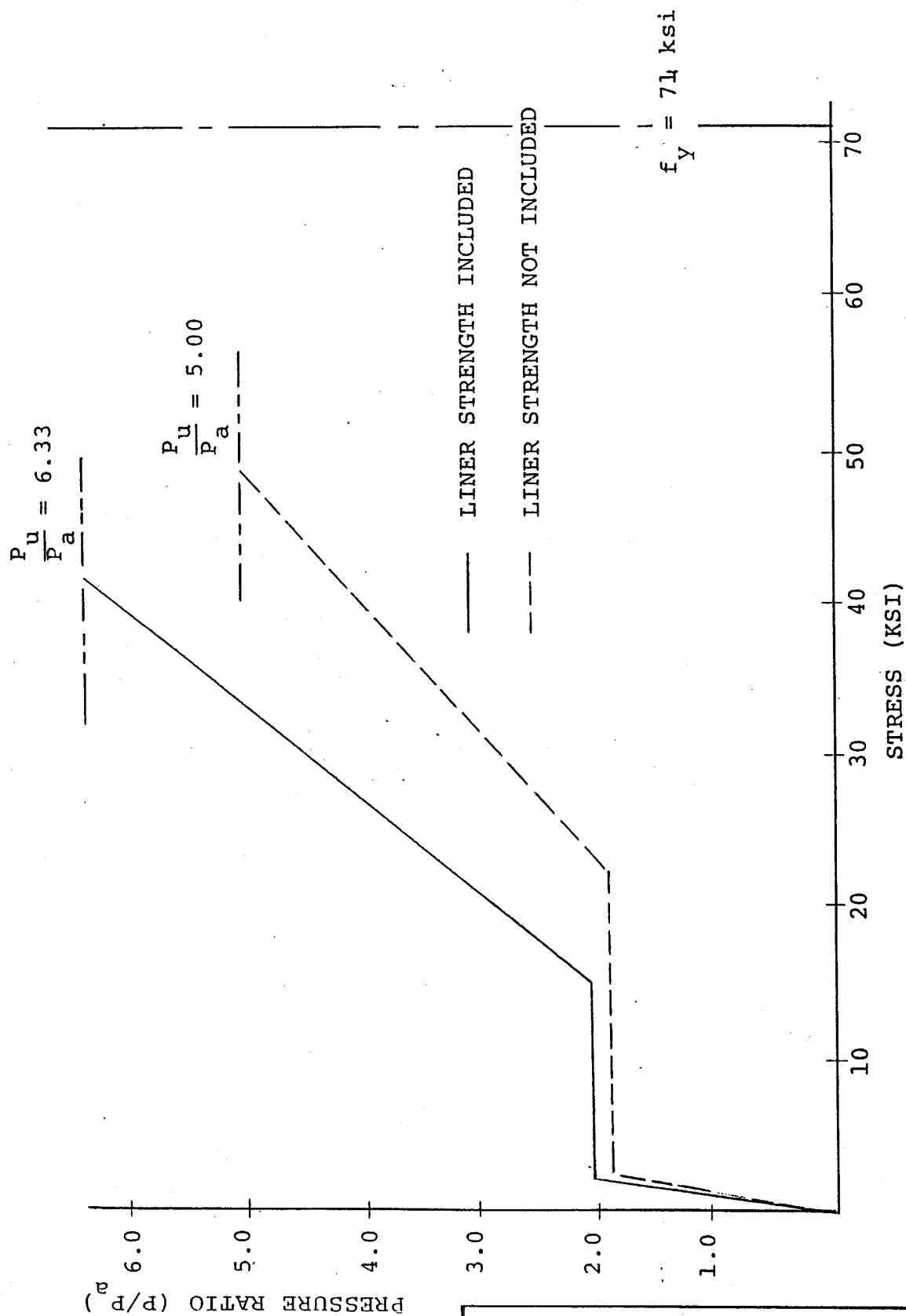






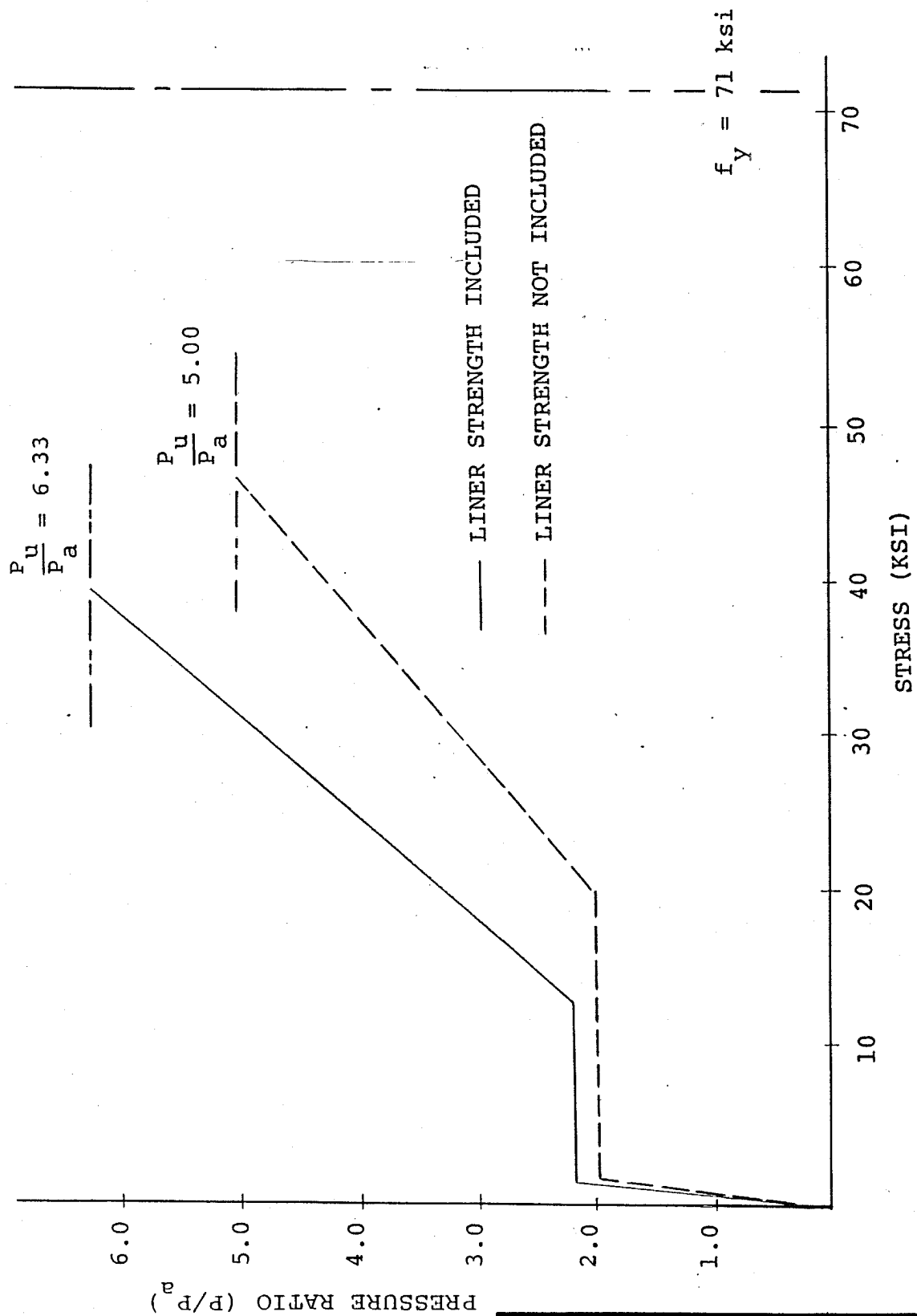
CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

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



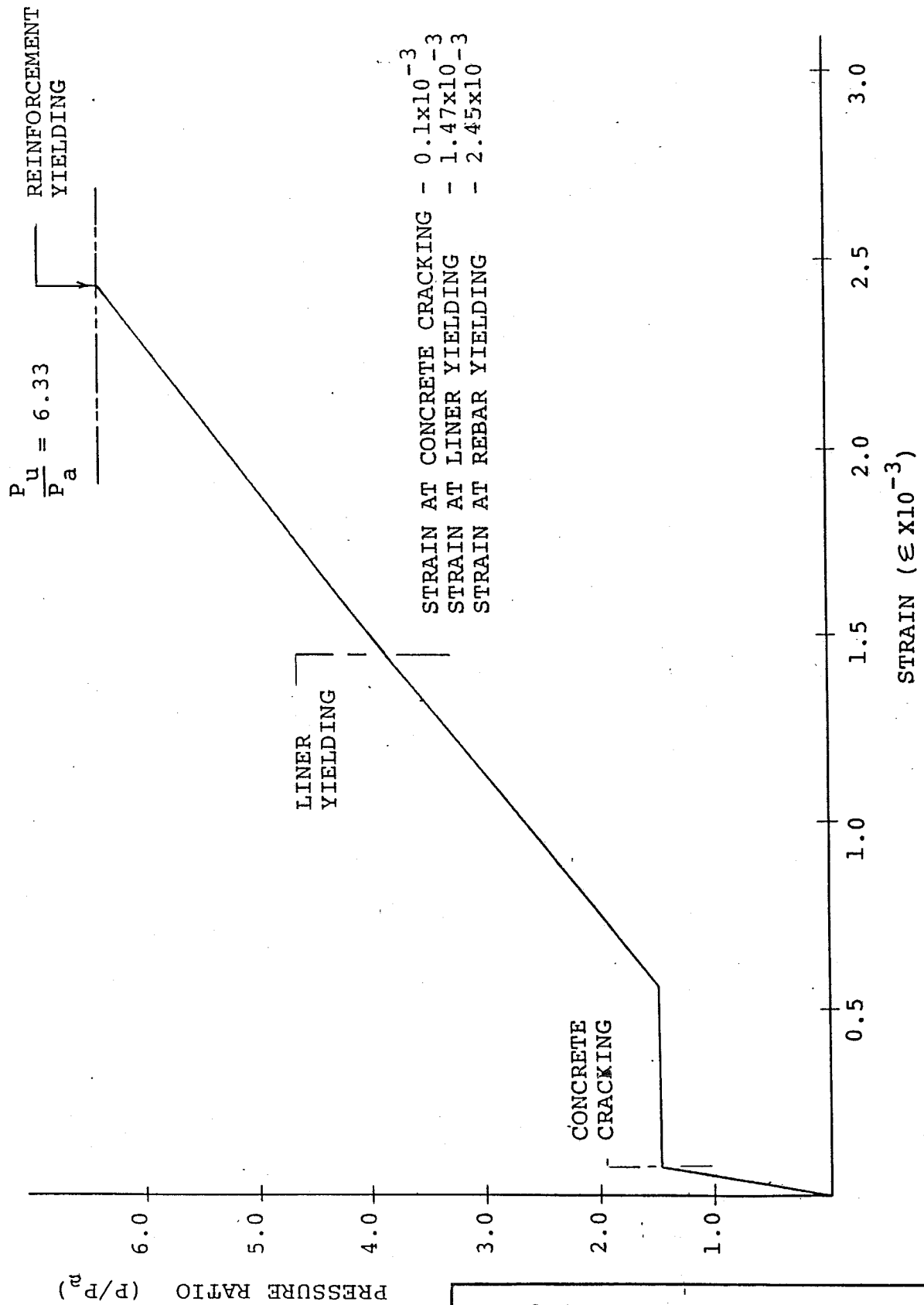
CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

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



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 UPDATED SAFETY ANALYSIS REPORT

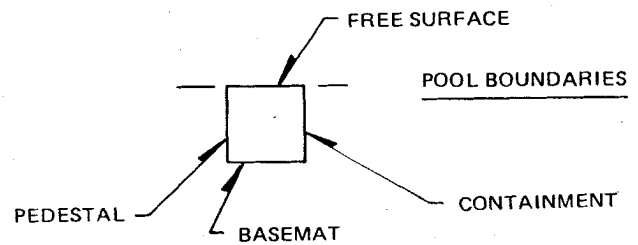
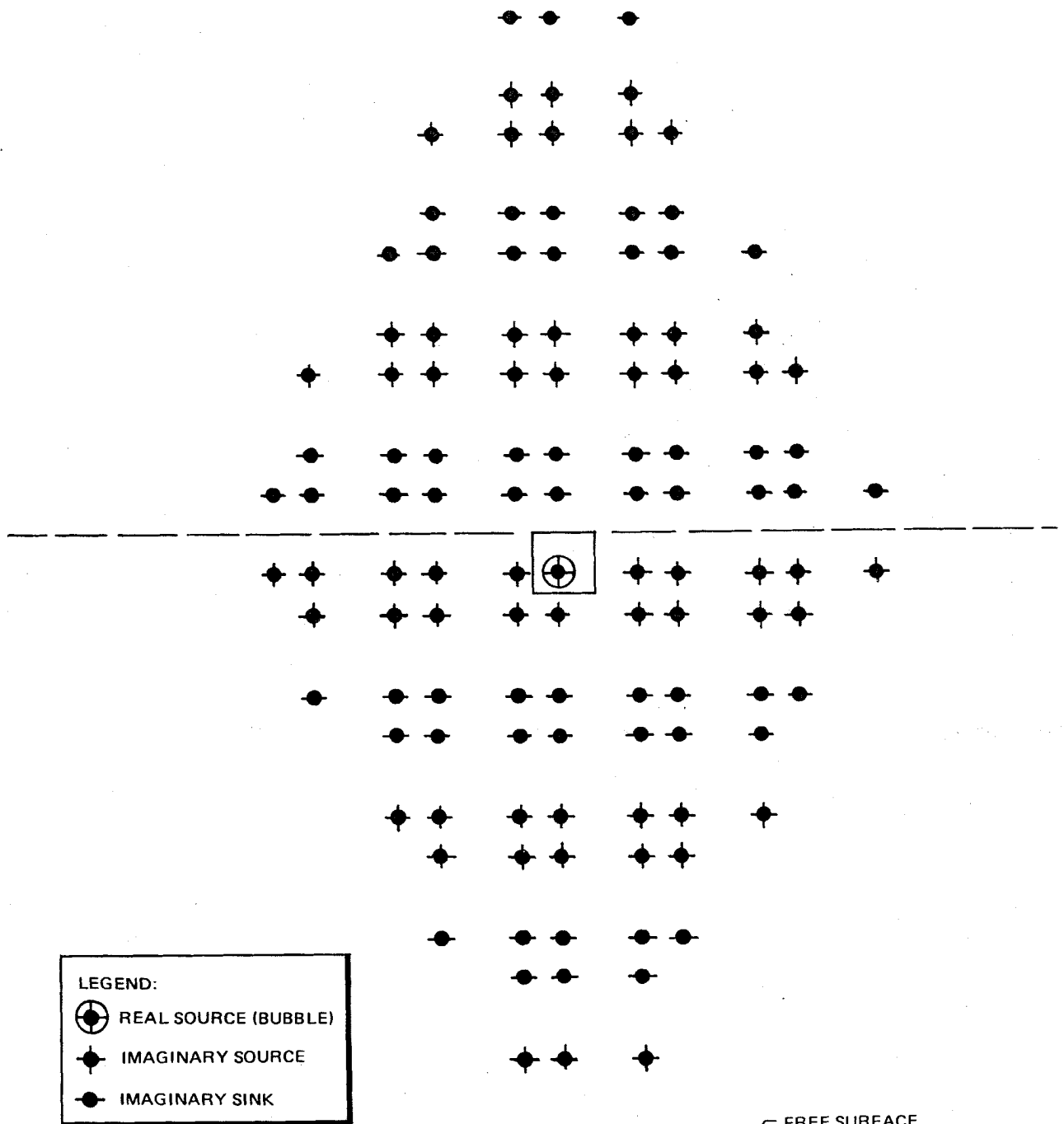
FIGURE 3.8-44
 PRESSURE RATIO VS.
 MERIDIONAL STEEL STRESS
 IN CONTAINMENT DOME
 (EL. 906 FT.)



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.8-45

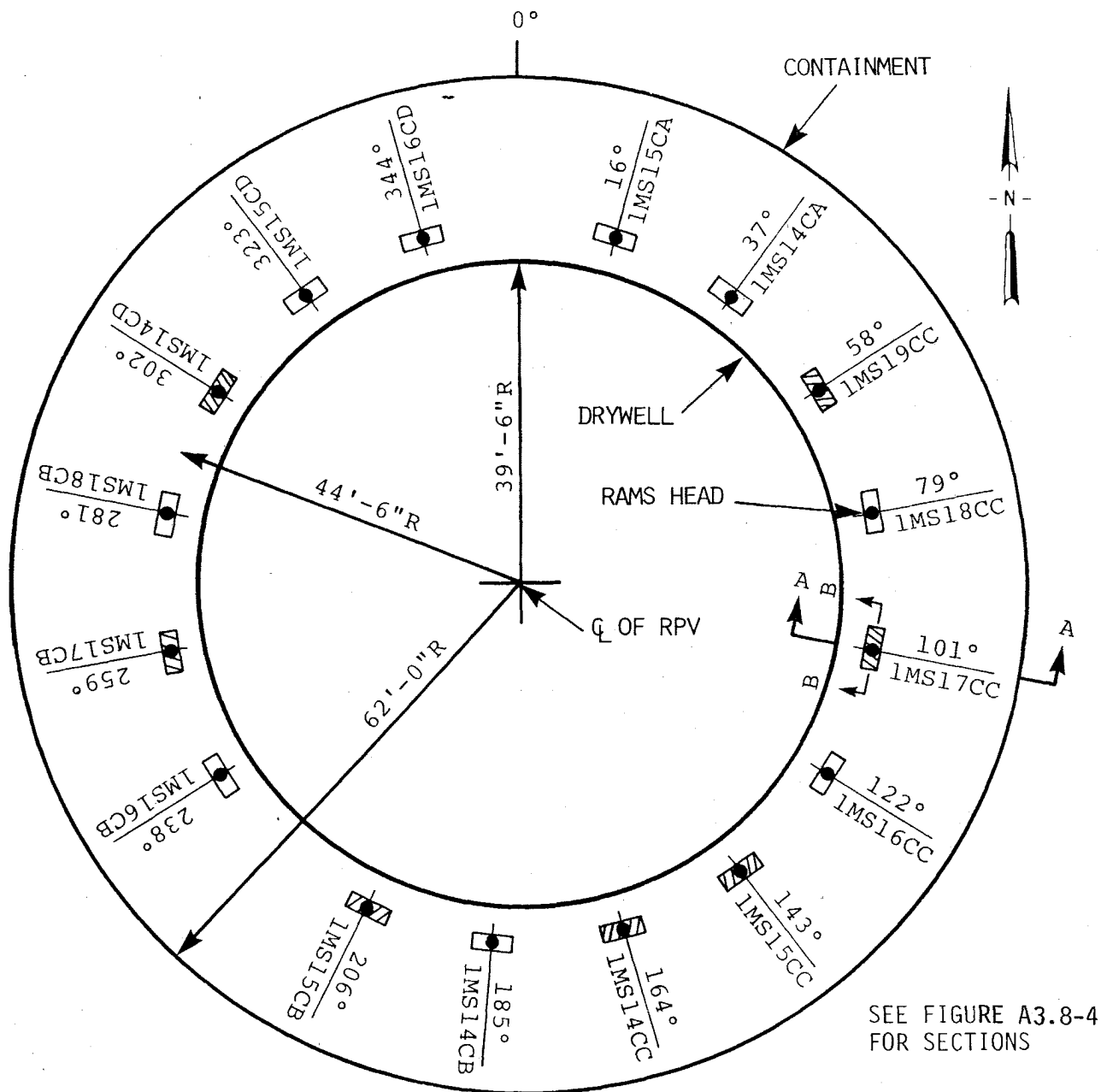
PRESSURE RATIO VS.
MAXIMUM MEMBRANE HOOP
SECTION STRAIN IN LINER



**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



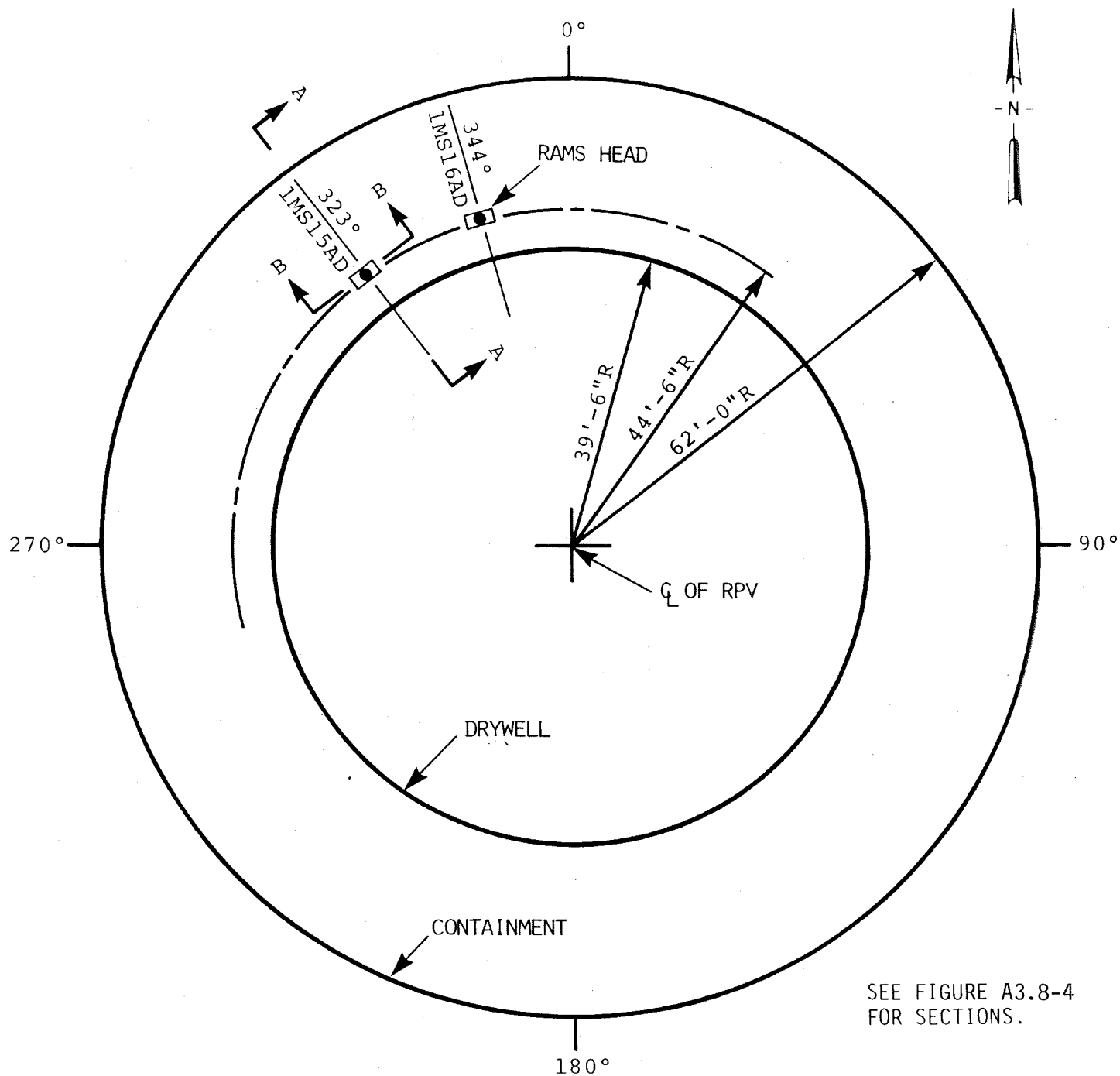
NOTES:

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

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE A3.8-2

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



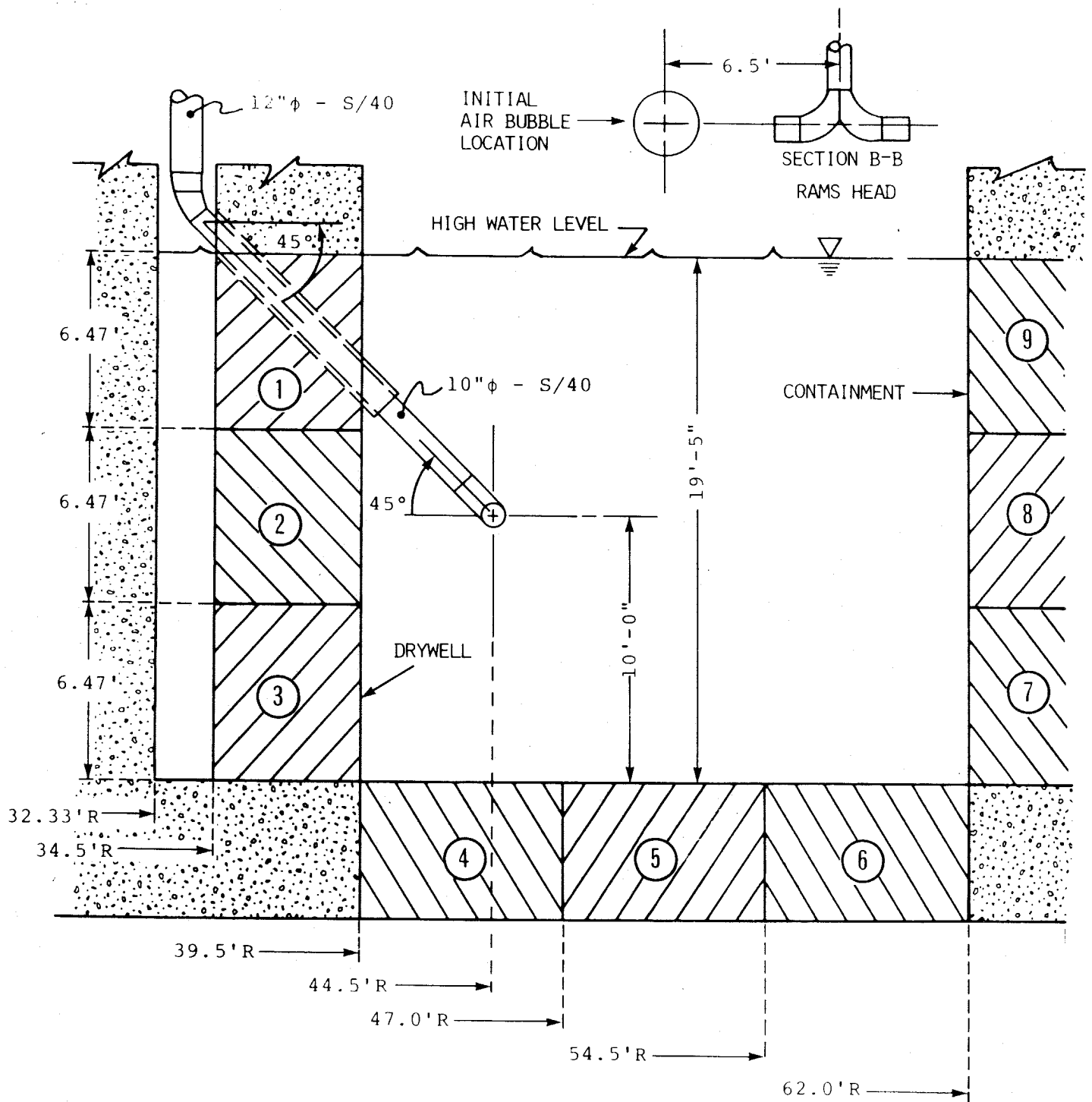
NOTES:

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

**CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT**

FIGURE A3.8-3

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



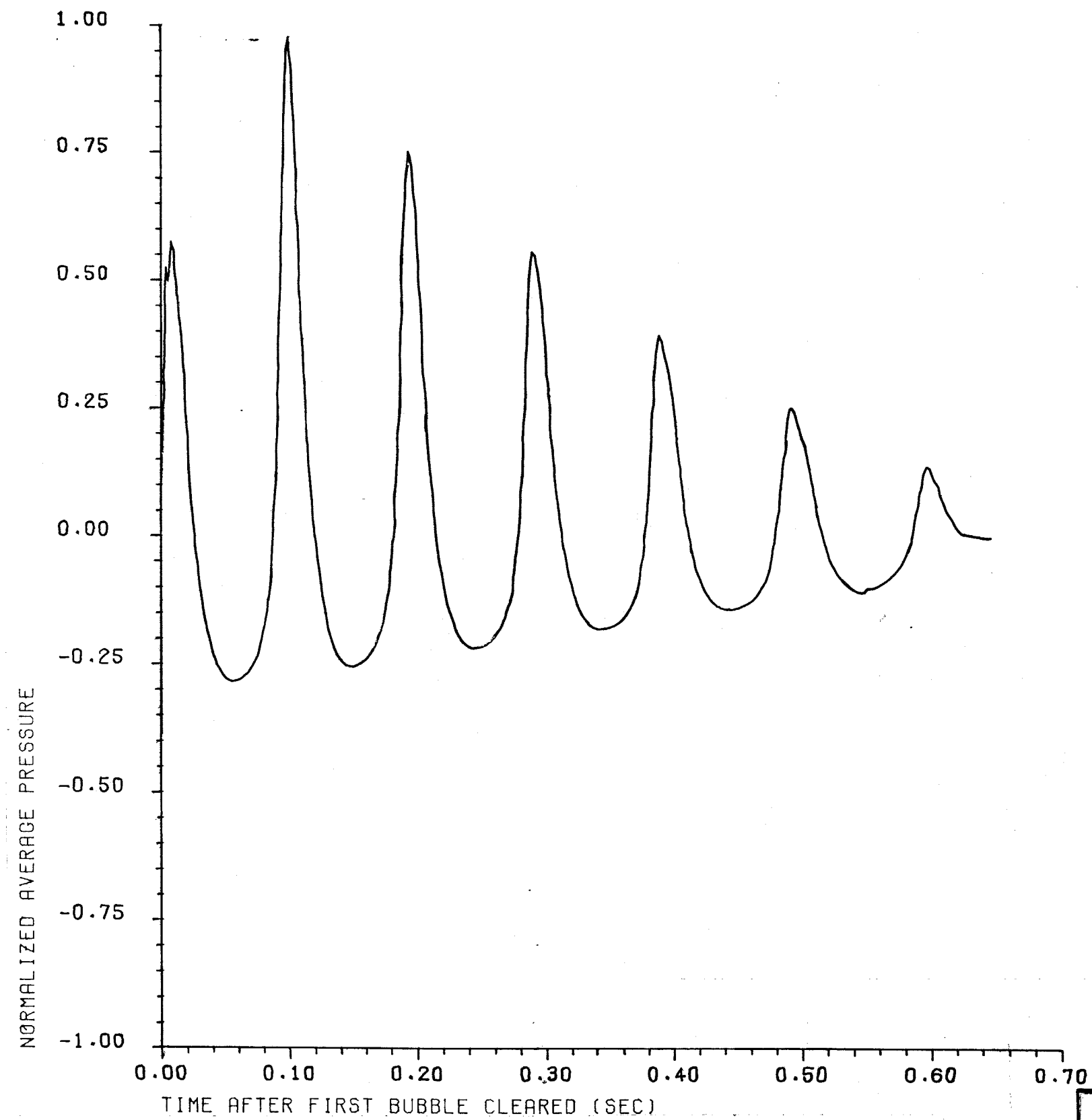
○ - ZONES FOR PRESSURE LOADING ON POOL BOUNDARY.

SECTION A-A

**CLINTON POWER STATION
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FIGURE A3.8-4

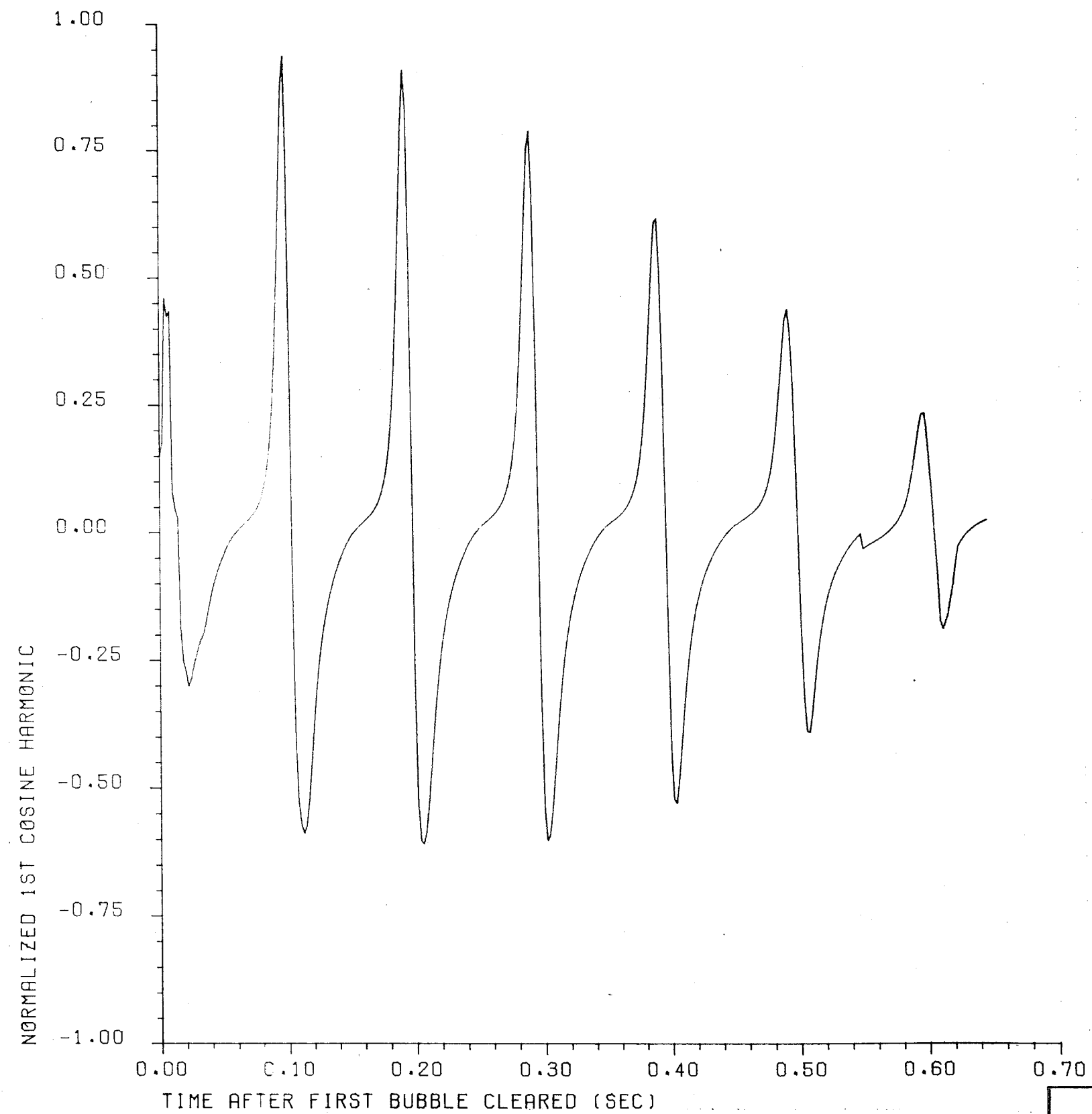
CROSS SECTION OF SUPPRESSION POOL



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UPDATED SAFETY ANALYSIS REPORT

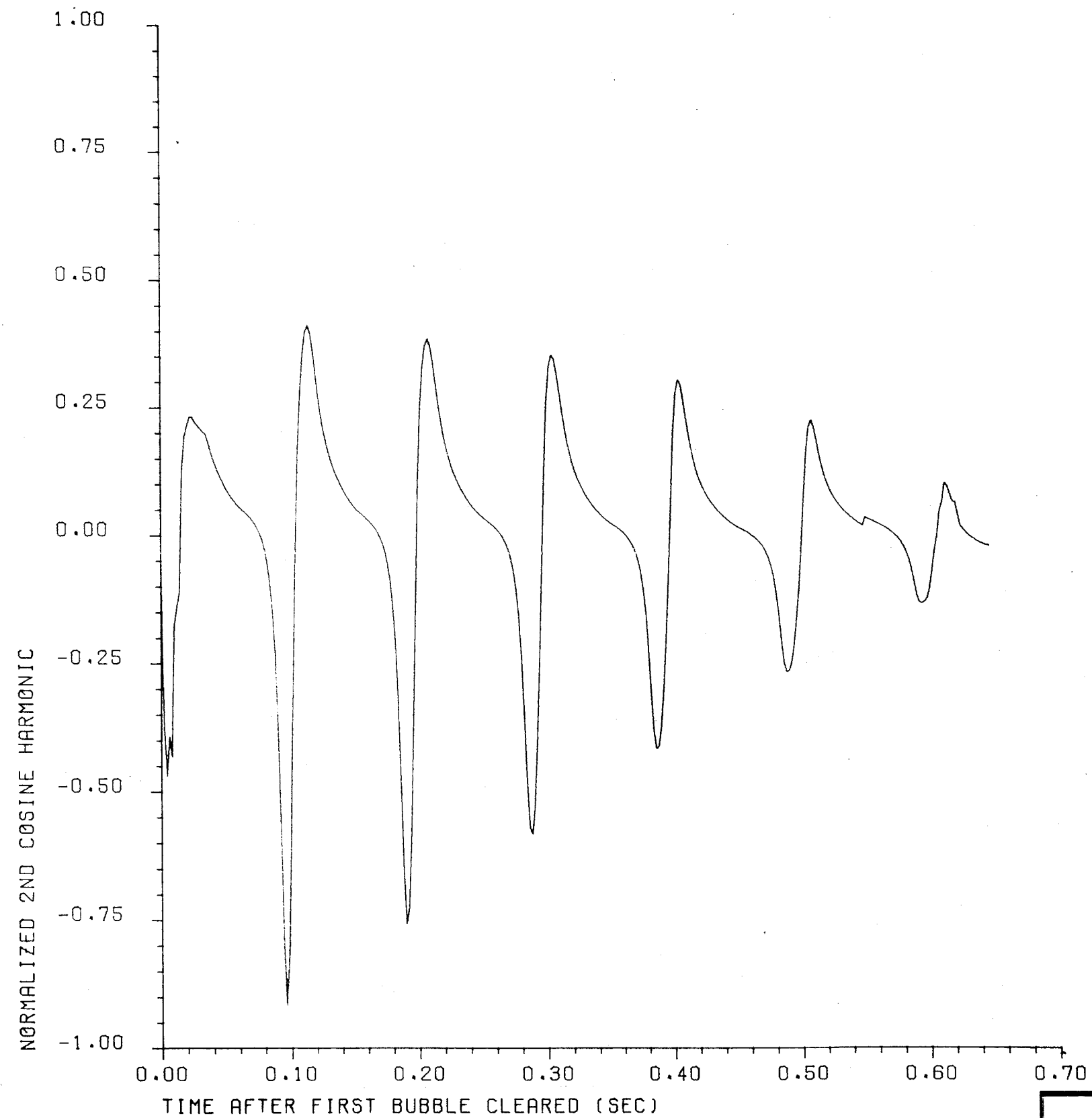
FIGURE A3.8-5

SYMMETRIC WALL LOADING
ZONE 4
NORMALIZED AVERAGE PRESSURE



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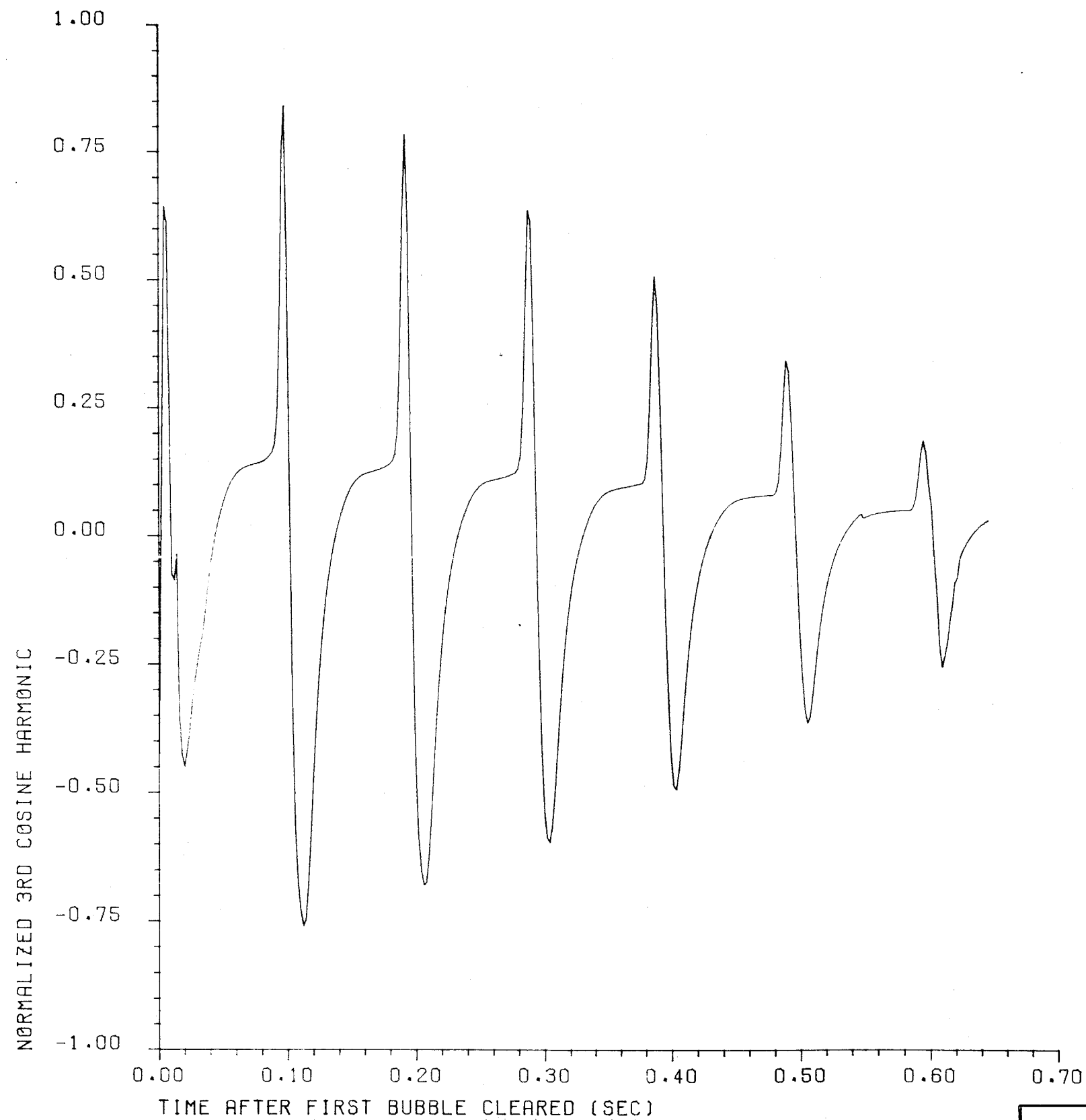
FIGURE A3.8-6
SYMMETRIC WALL LOADING
ZONE 4
NORMALIZED 1st COSINE HARMONIC



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UPDATED SAFETY ANALYSIS REPORT

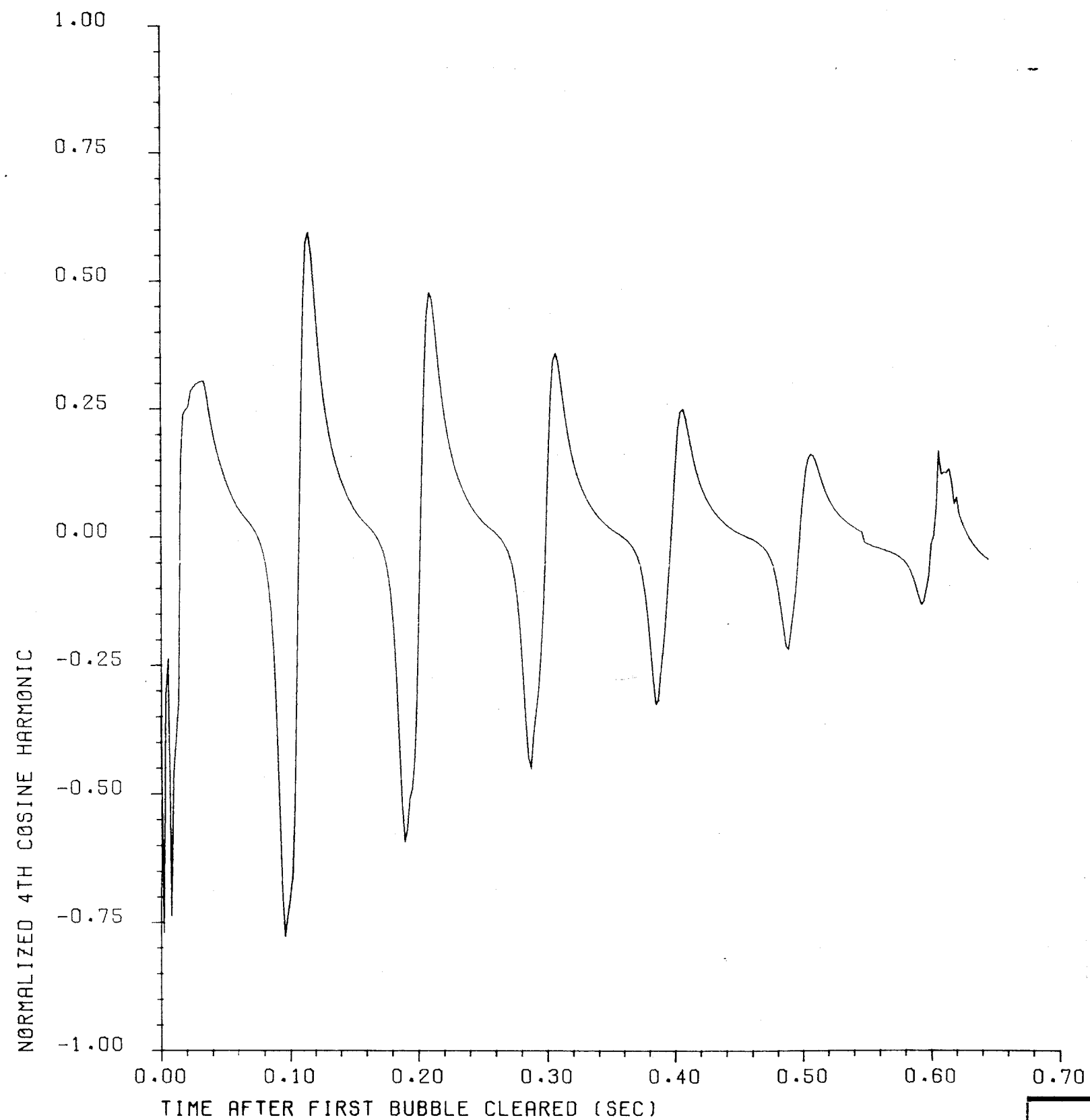
FIGURE A3.8-7

SYMMETRIC WALL LOADING
ZONE 4
NORMALIZED 2nd COSINE HARMONIC



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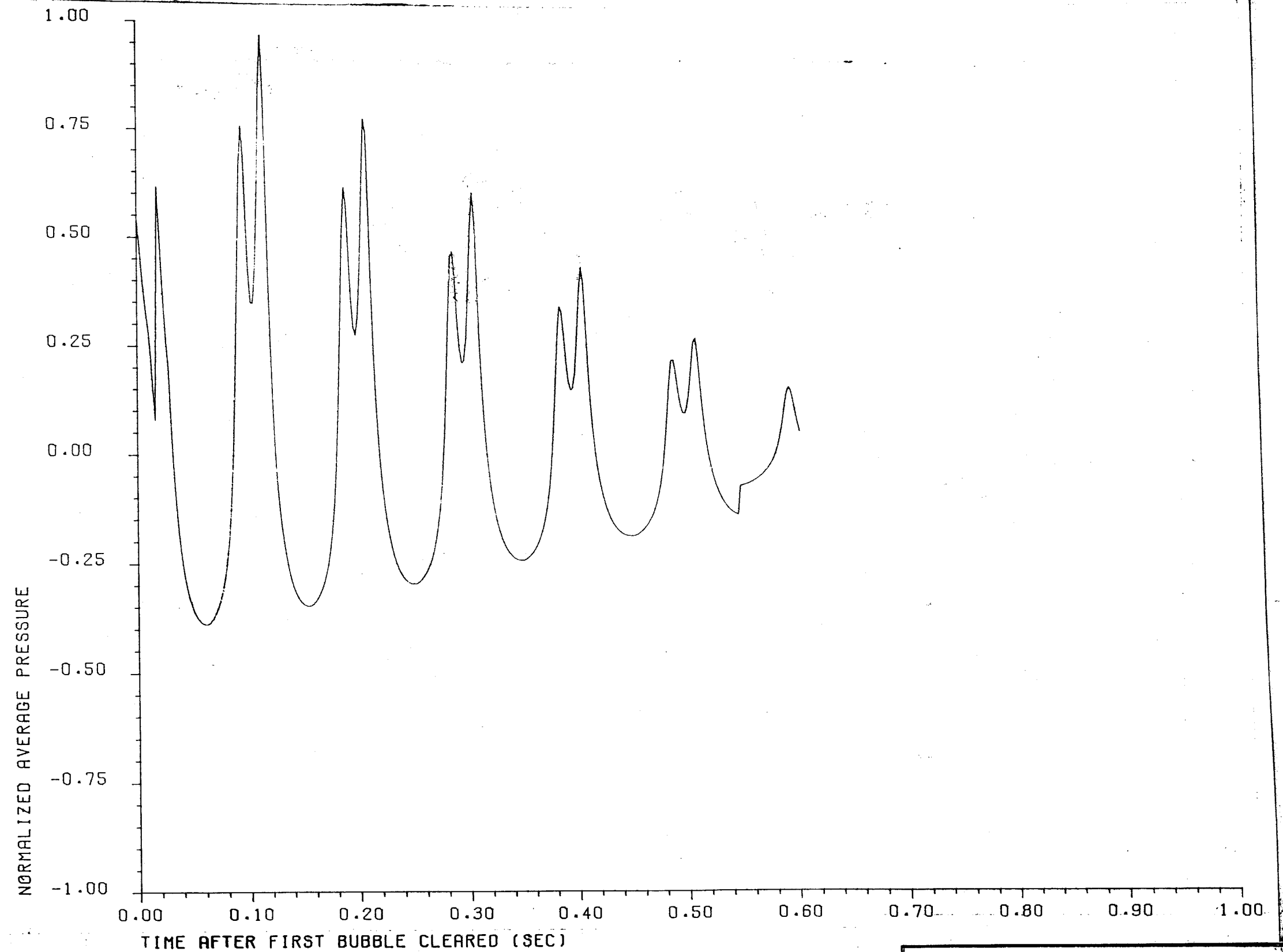
FIGURE A3.8-8
SYMMETRIC WALL LOADING
ZONE 4
NORMALIZED 3rd COSINE HARMONIC



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FIGURE A3.8-9

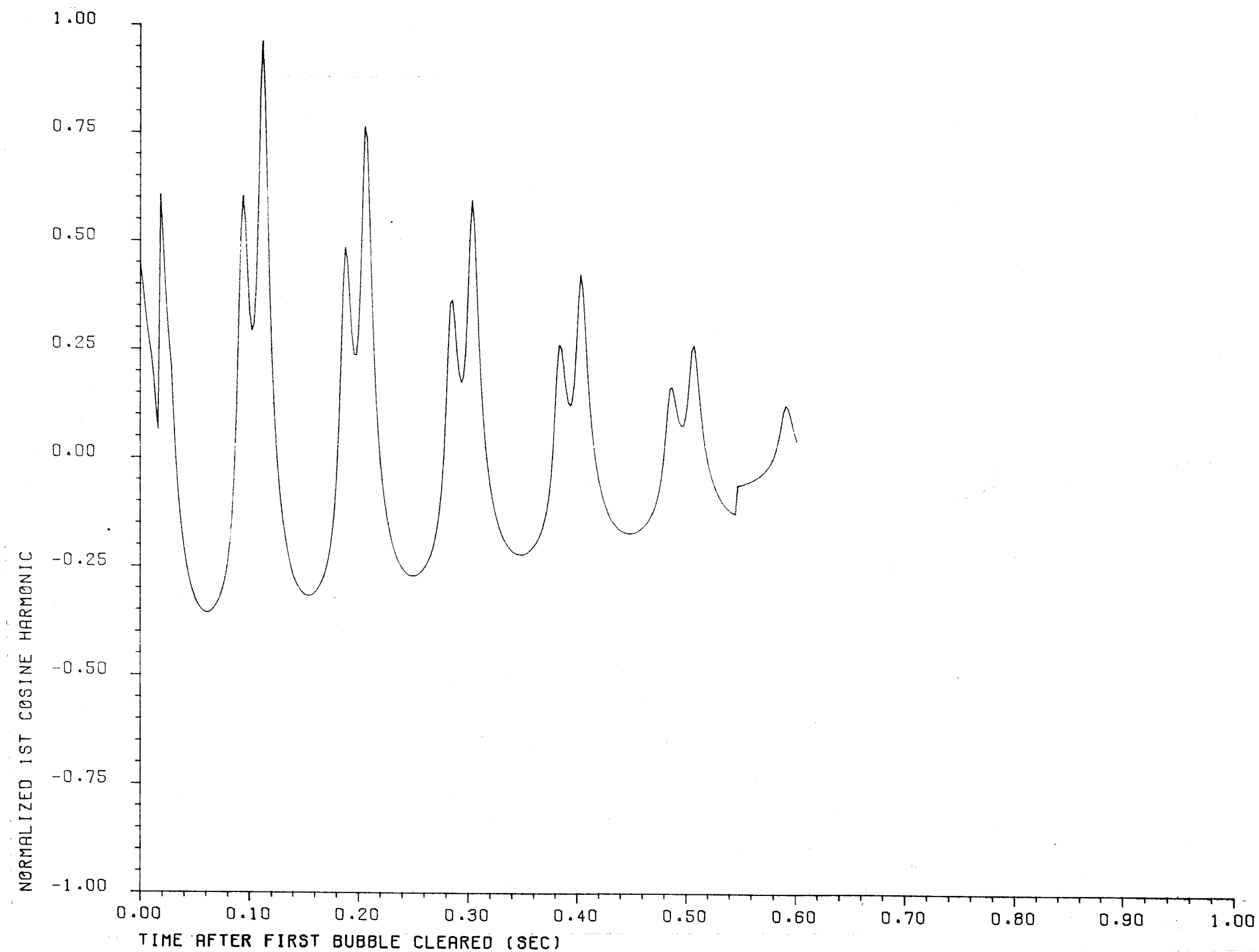
SYMMETRIC WALL LOADING
ZONE 4
NORMALIZED 4th COSINE HARMONIC



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UPDATED SAFETY ANALYSIS REPORT

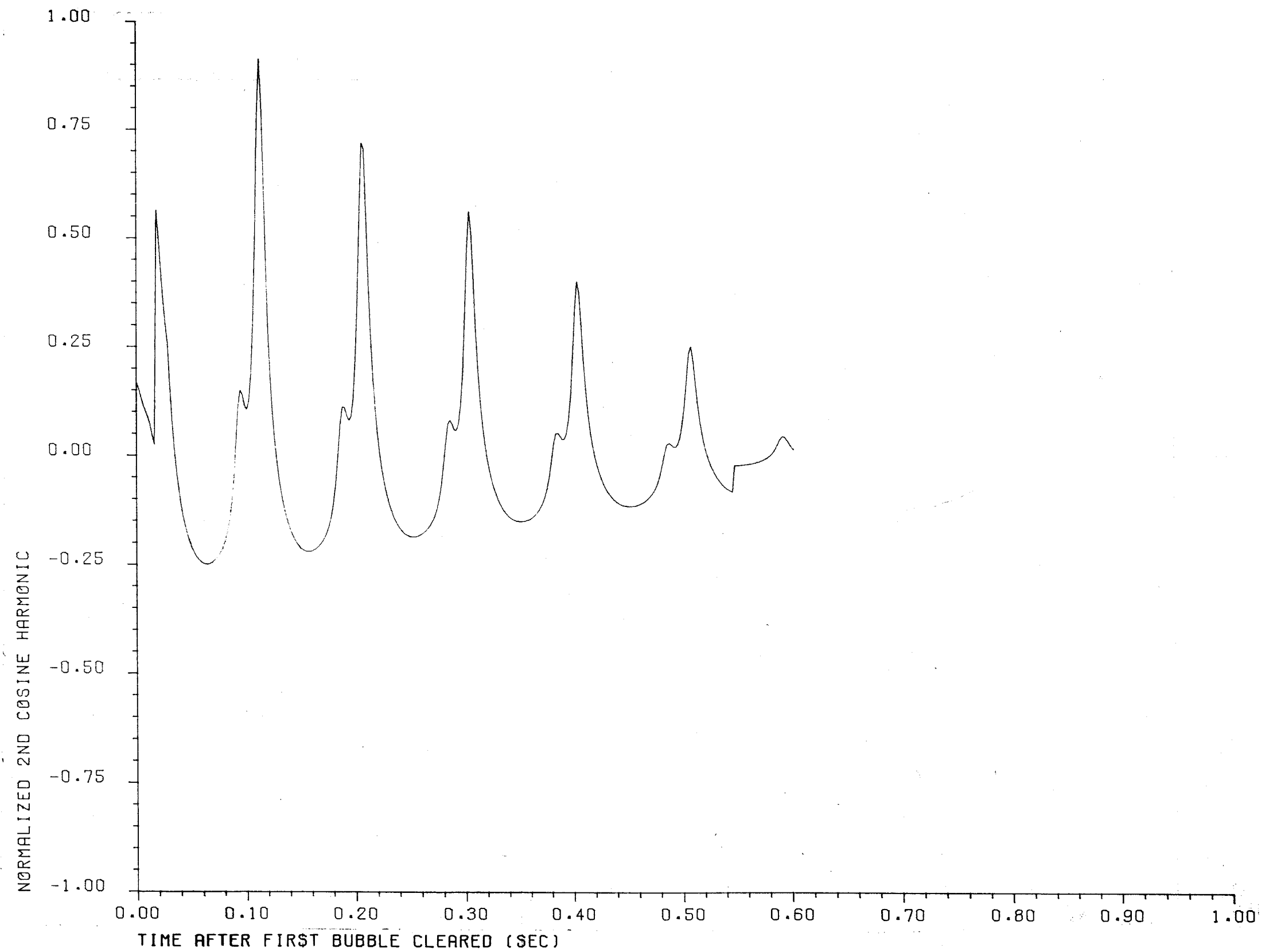
FIGURE A3.8-10

ASYMMETRIC DISCHARGE WALL LOADING
ZONE 4
NORMALIZED AVERAGE PRESSURE



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UPDATED SAFETY ANALYSIS REPORT

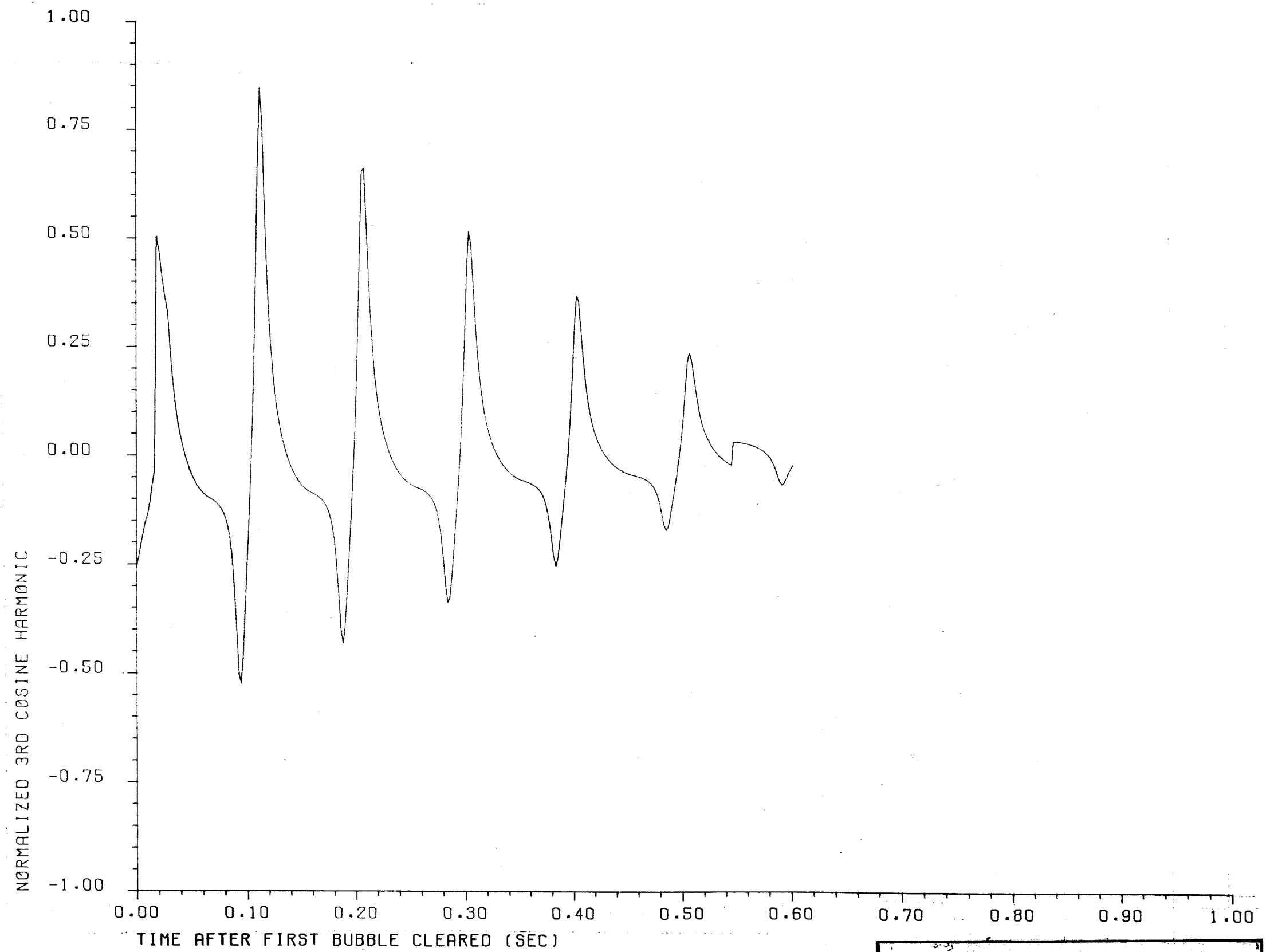
FIGURE A3.8-11
ASYMMETRIC DISCHARGE WALL LOADING
ZONE 4
NORMALIZED 1st COSINE HARMONIC



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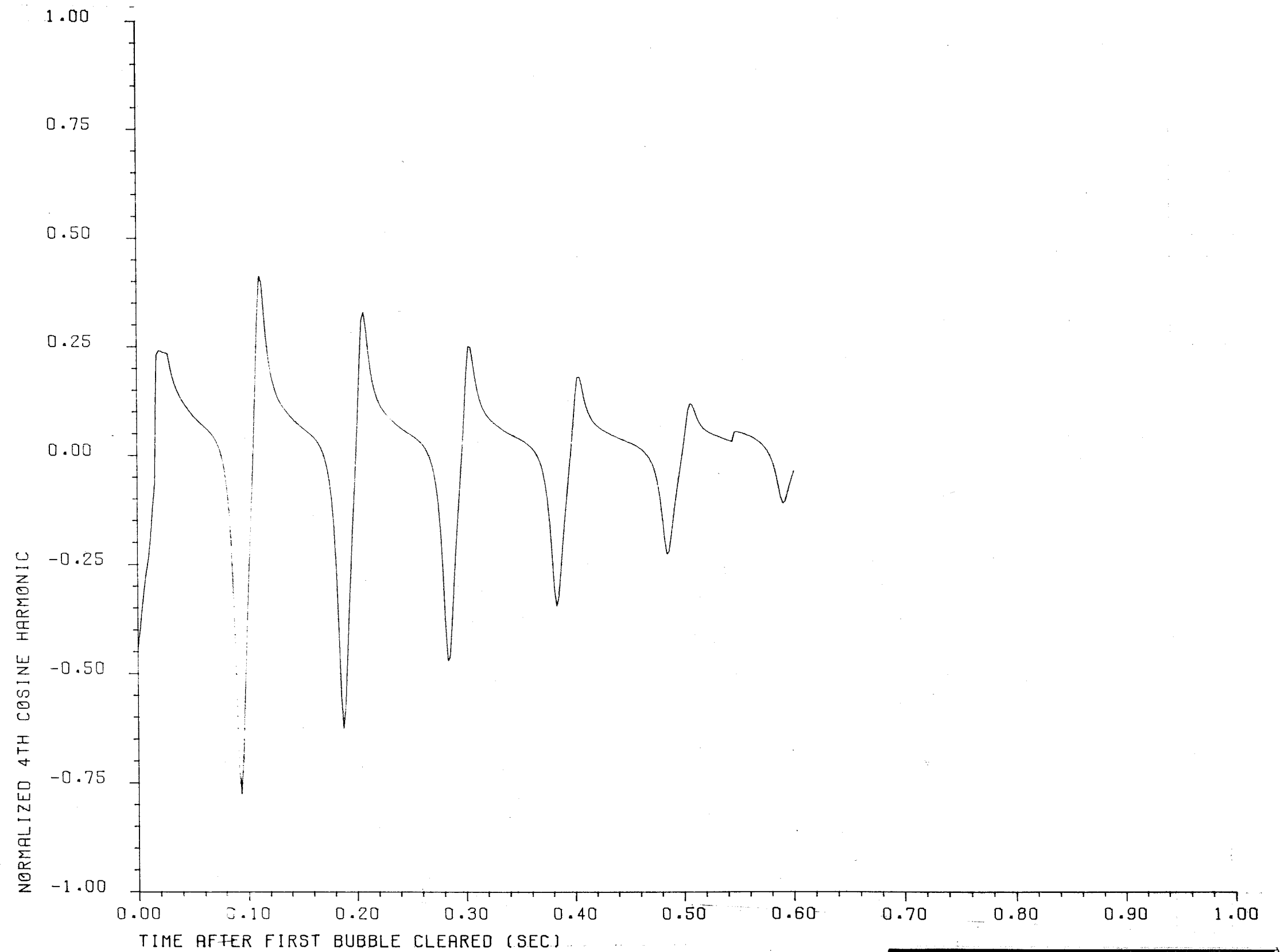
FIGURE A3.8-12

ASYMMETRIC DISCHARGE WALL LOADING
ZONE 4
NORMALIZED 2nd COSINE HARMONIC



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

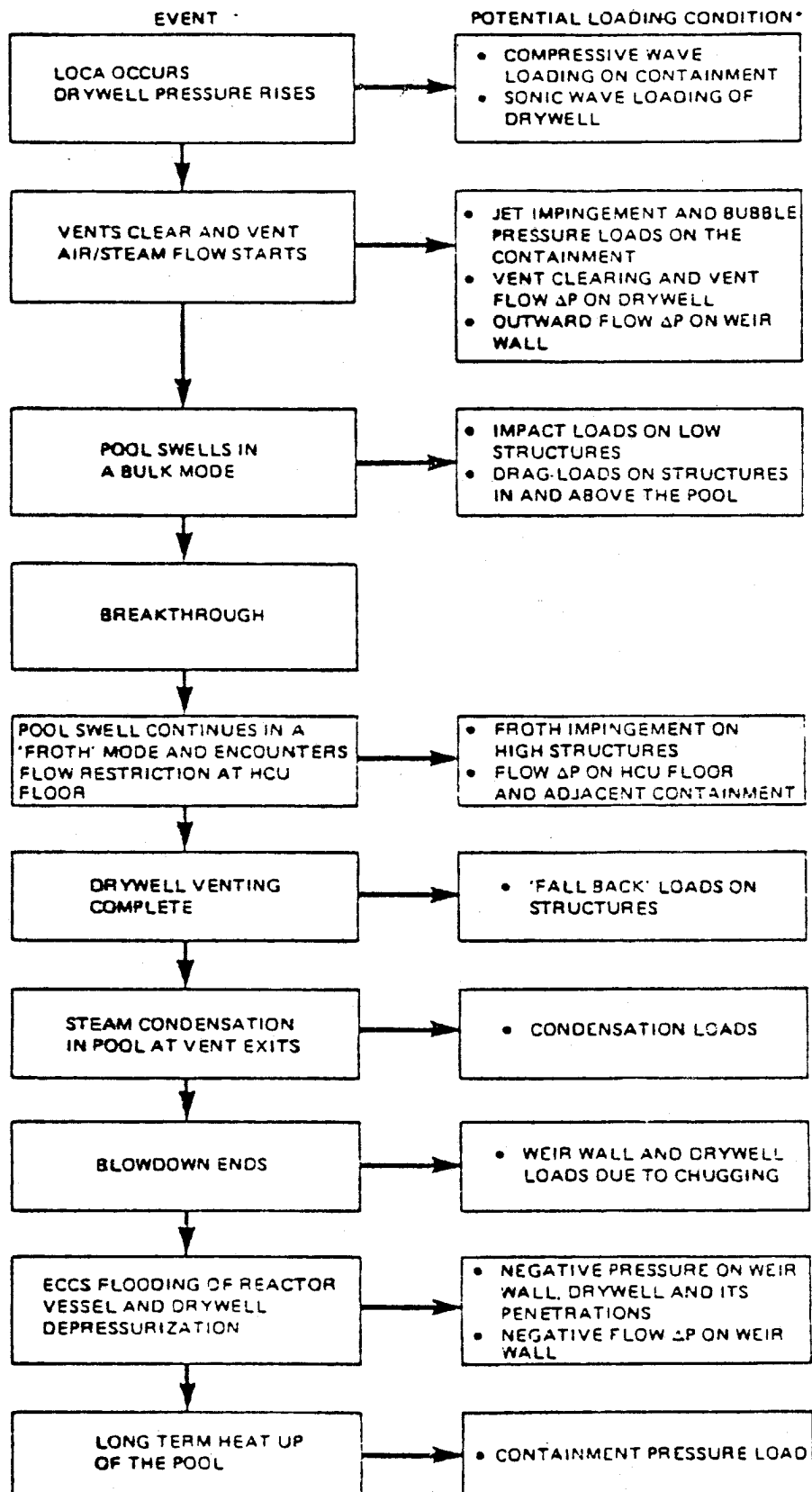
FIGURE A3.8-13
ASYMMETRIC DISCHARGE WALL LOADING
ZONE 4
NORMALIZED 3rd COSINE HARMONIC



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

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)

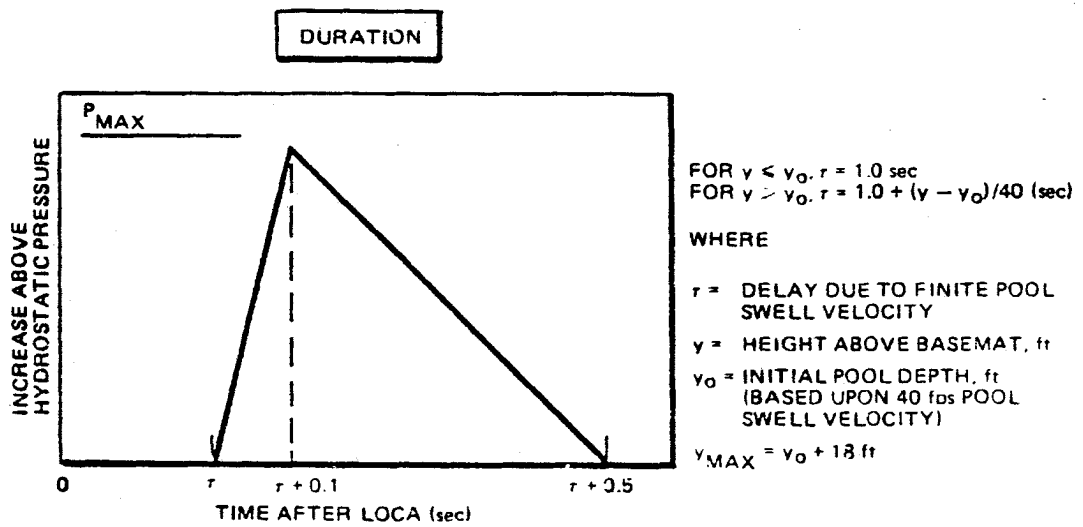
**CLINTON POWER STATION
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FIGURE A3.8-15

LOSS-OF-COOLANT
ACCIDENT CHRONOLOGY (DBA)



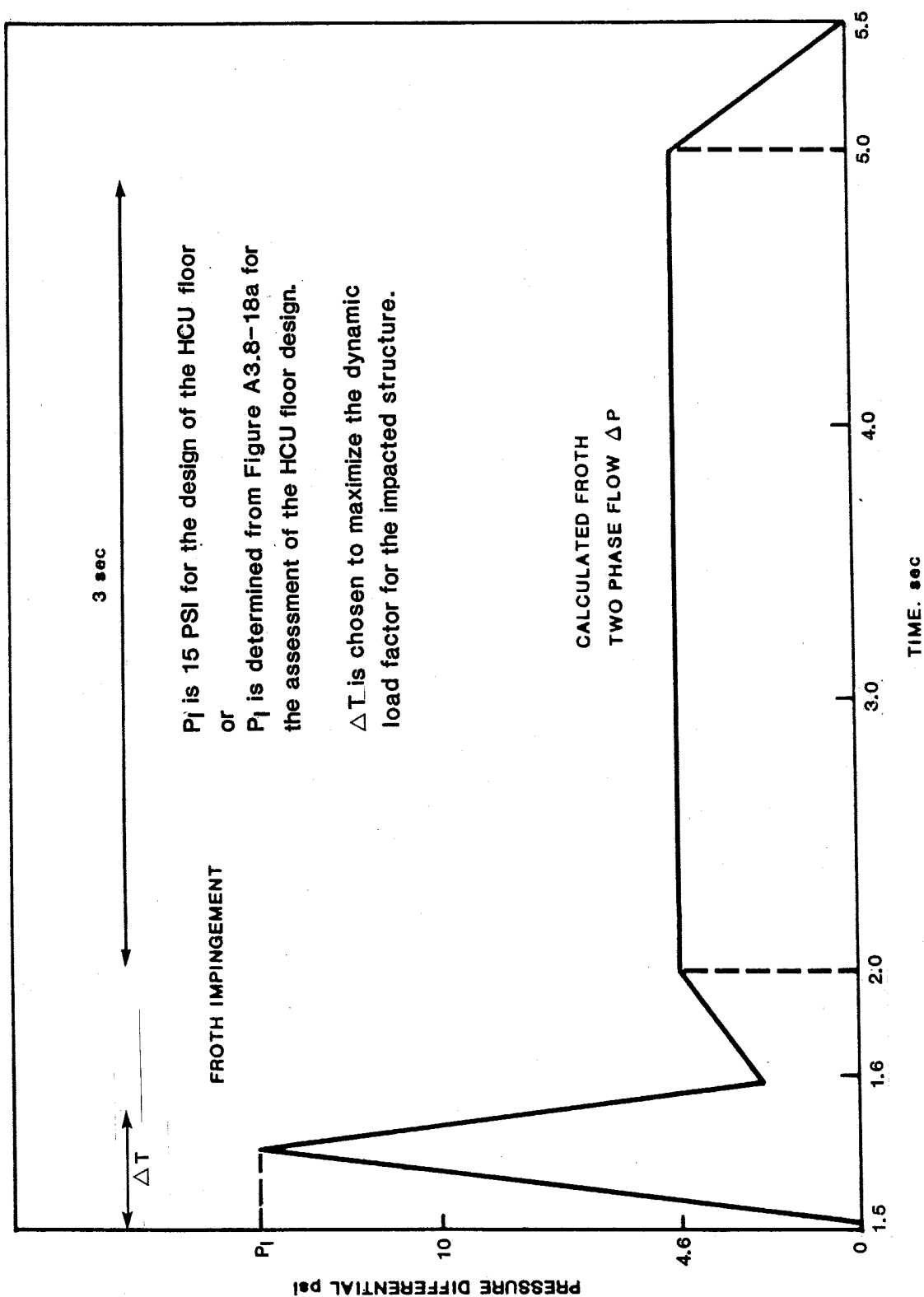
PRESSURE DISTRIBUTION ON SUPPRESSION POOL WETTED SURFACE



**CLINTON POWER STATION
 UPDATED SAFETY ANALYSIS REPORT**

FIGURE A3.8-17

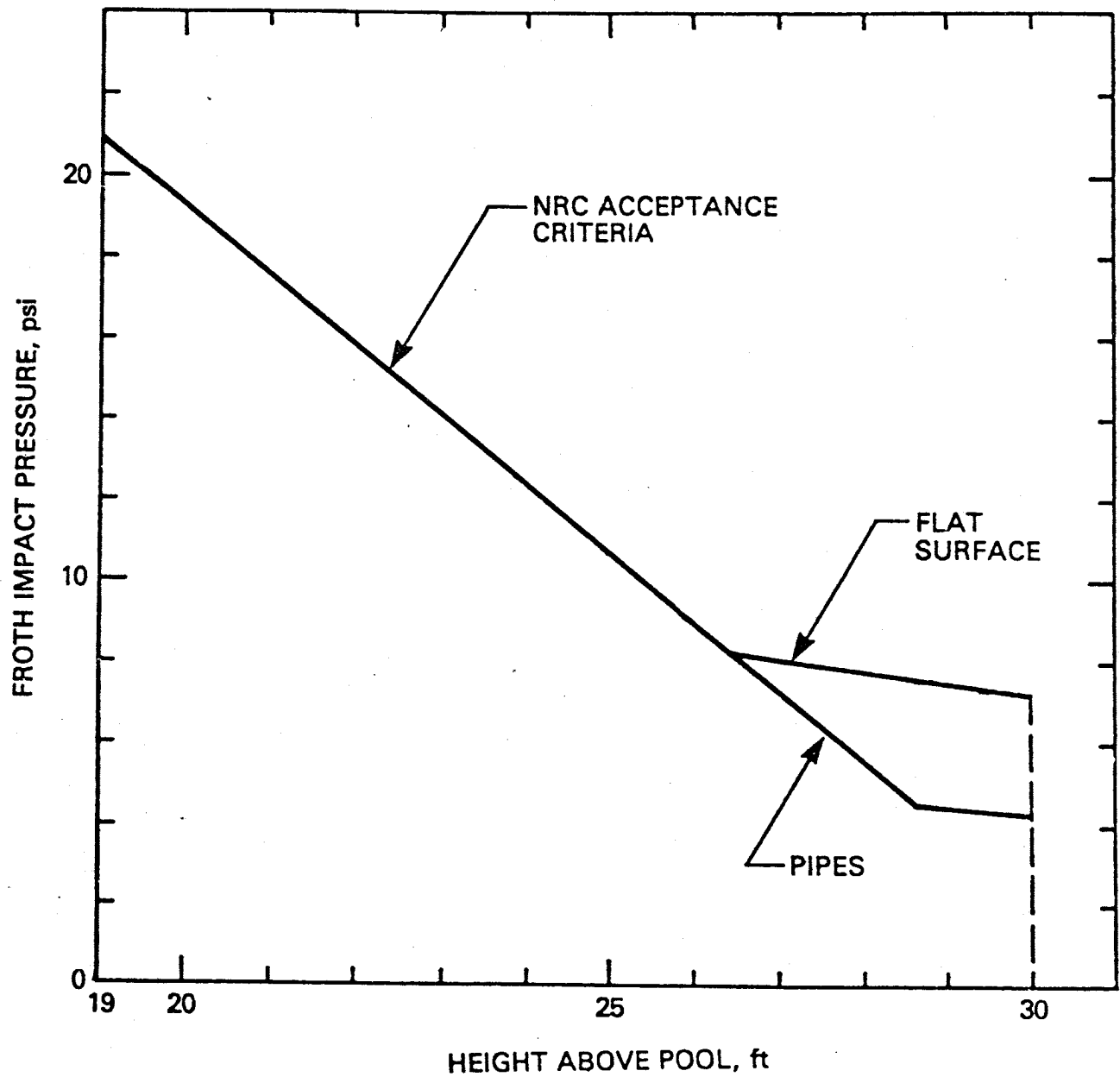
DYNAMIC LOADS ASSOCIATED WITH INITIAL
 BUBBLE FORMATION IN THE POOL



CLINTON POWER STATION
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FIGURE A3.8-18

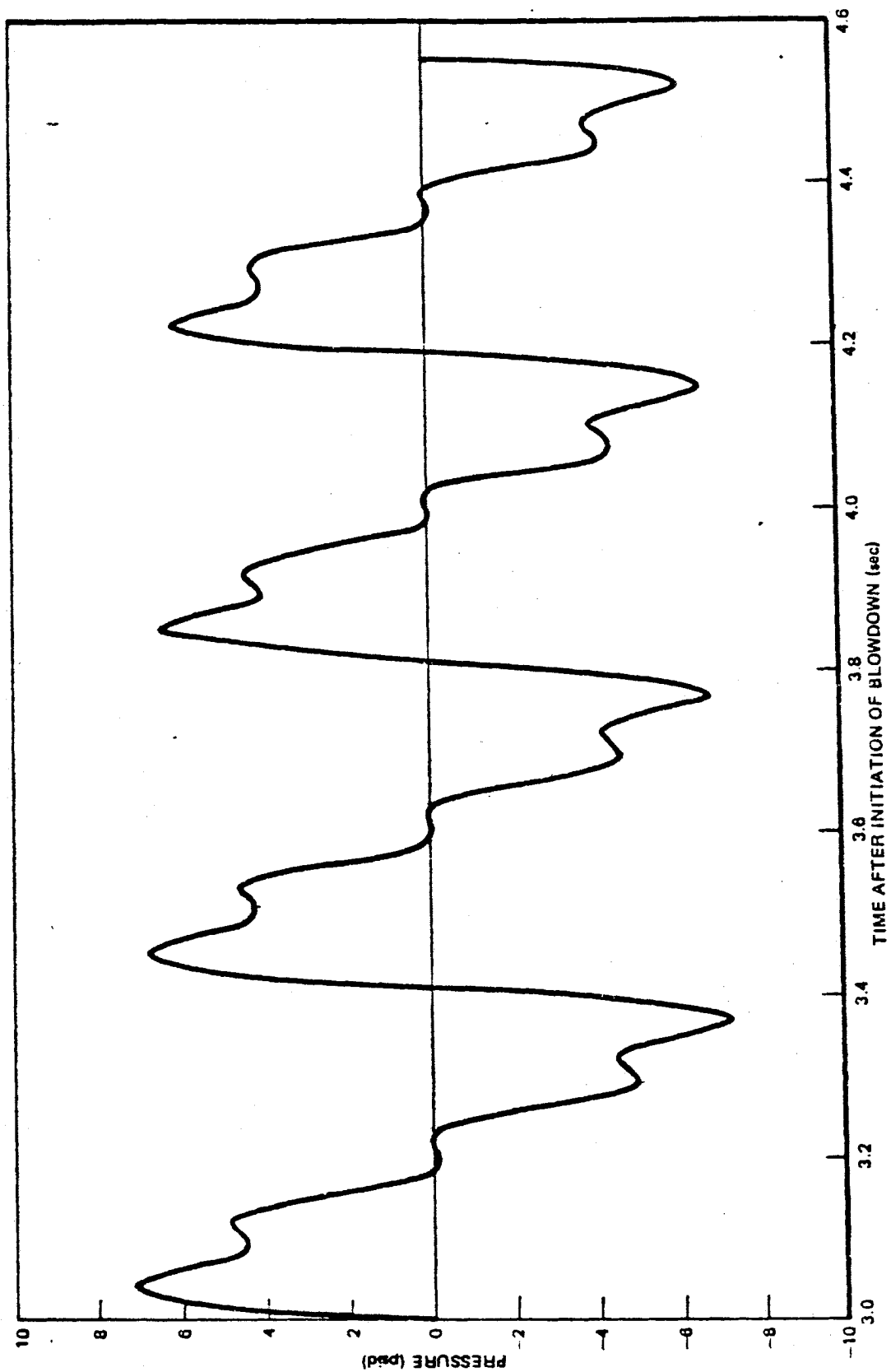
LOADS AT HCU FLOOR ELEVATION DUE TO POOL SWELL FROTH IMPACT AND TWO PHASE FLOW



**CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT**

FIGURE A3.8-18a

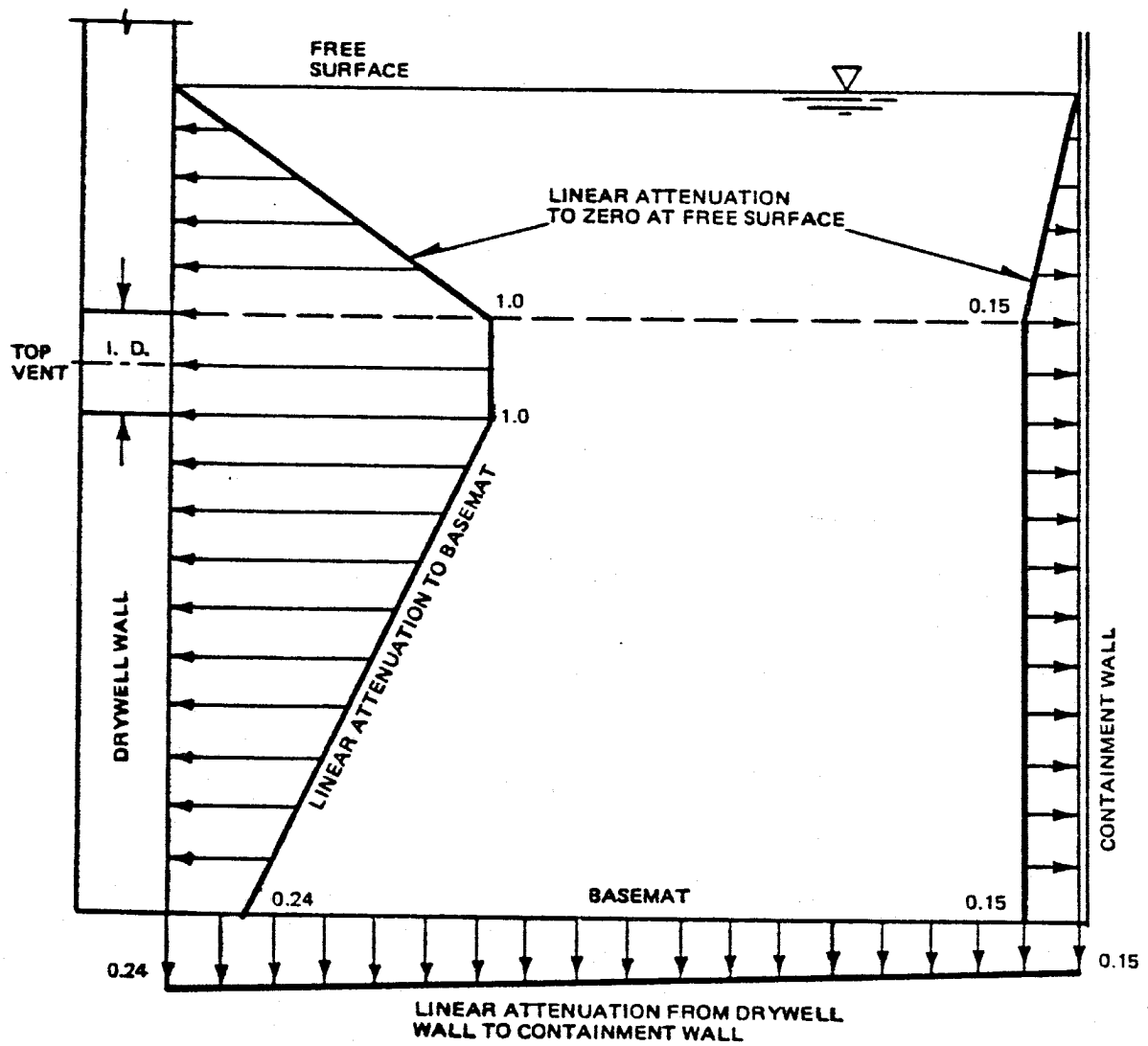
NRC ACCEPTANCE CRITERIA FOR FROTH
IMPACT: PEAK AMPLITUDE OF PRESSURE PULSE



**CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT**

FIGURE A3.8-19

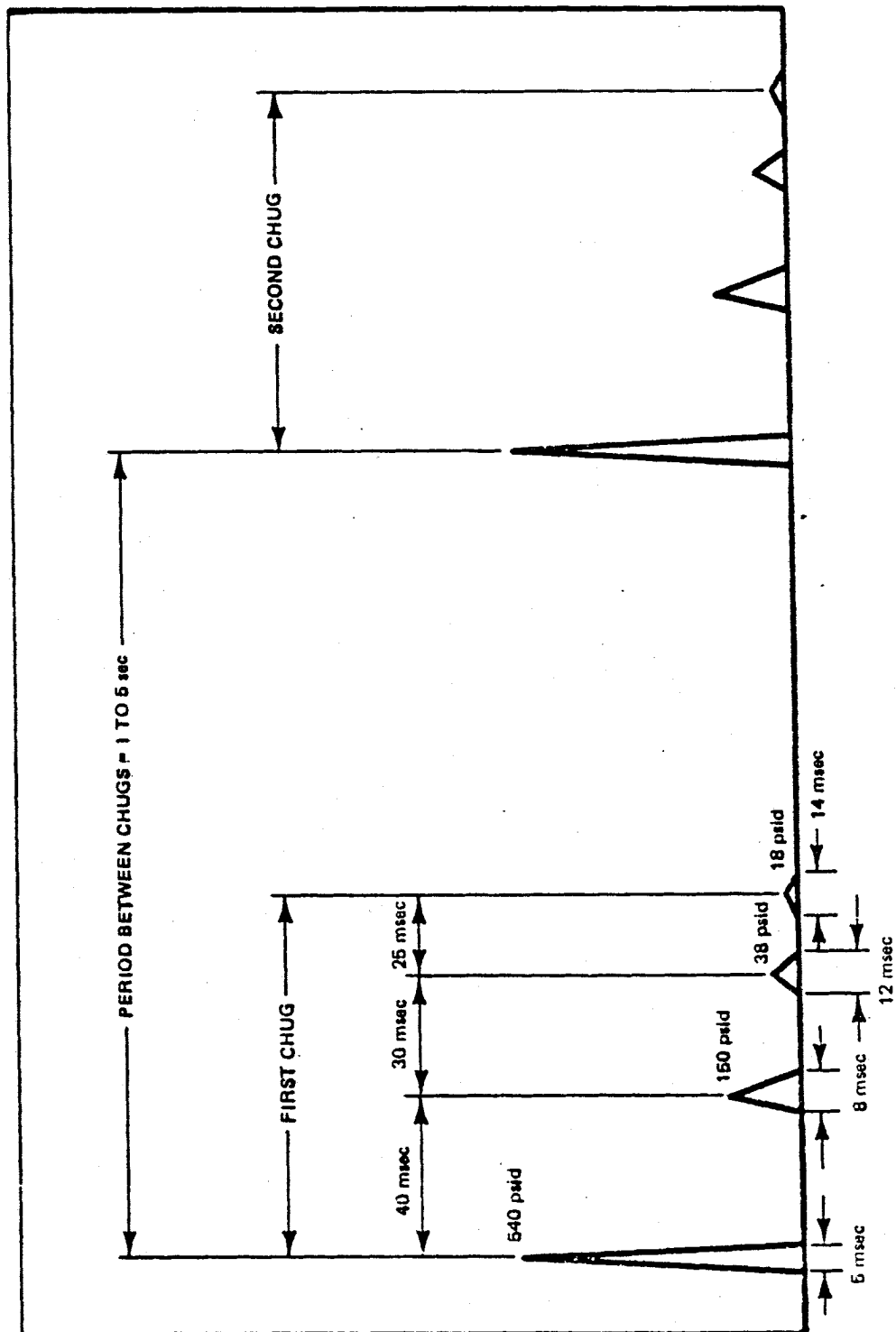
CONDENSATION OSCILLATION FORCING
FUNCTION ON THE DRYWELL WALL O.D.
ADJACENT THE TOP VENT



**CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT**

FIGURE A3.8-20

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

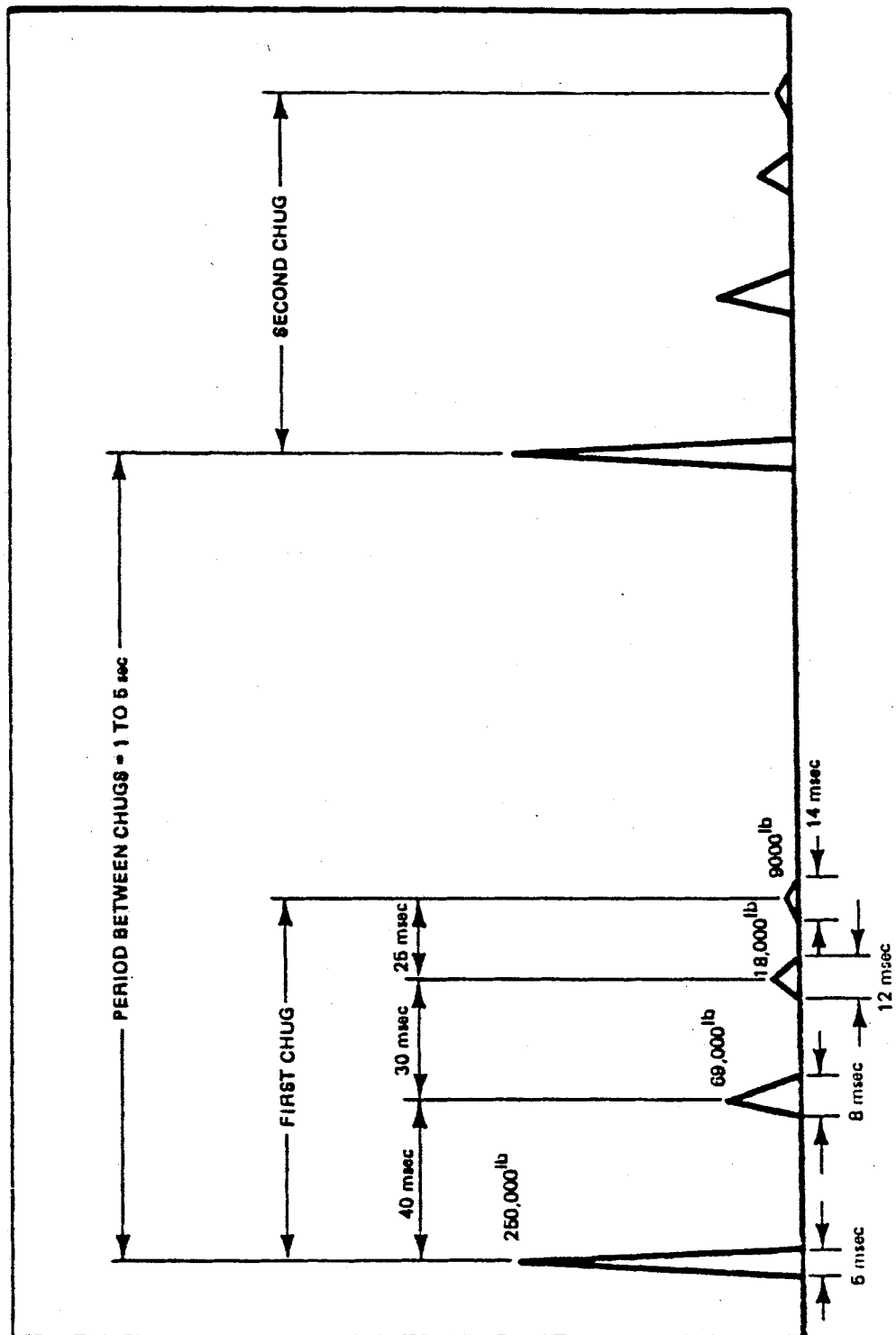


AMPLITUDE (psid)

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE A3.8-21

PEAK PRESSURE PULSE TRAIN IN TOP
VENT DURING CHUGGING

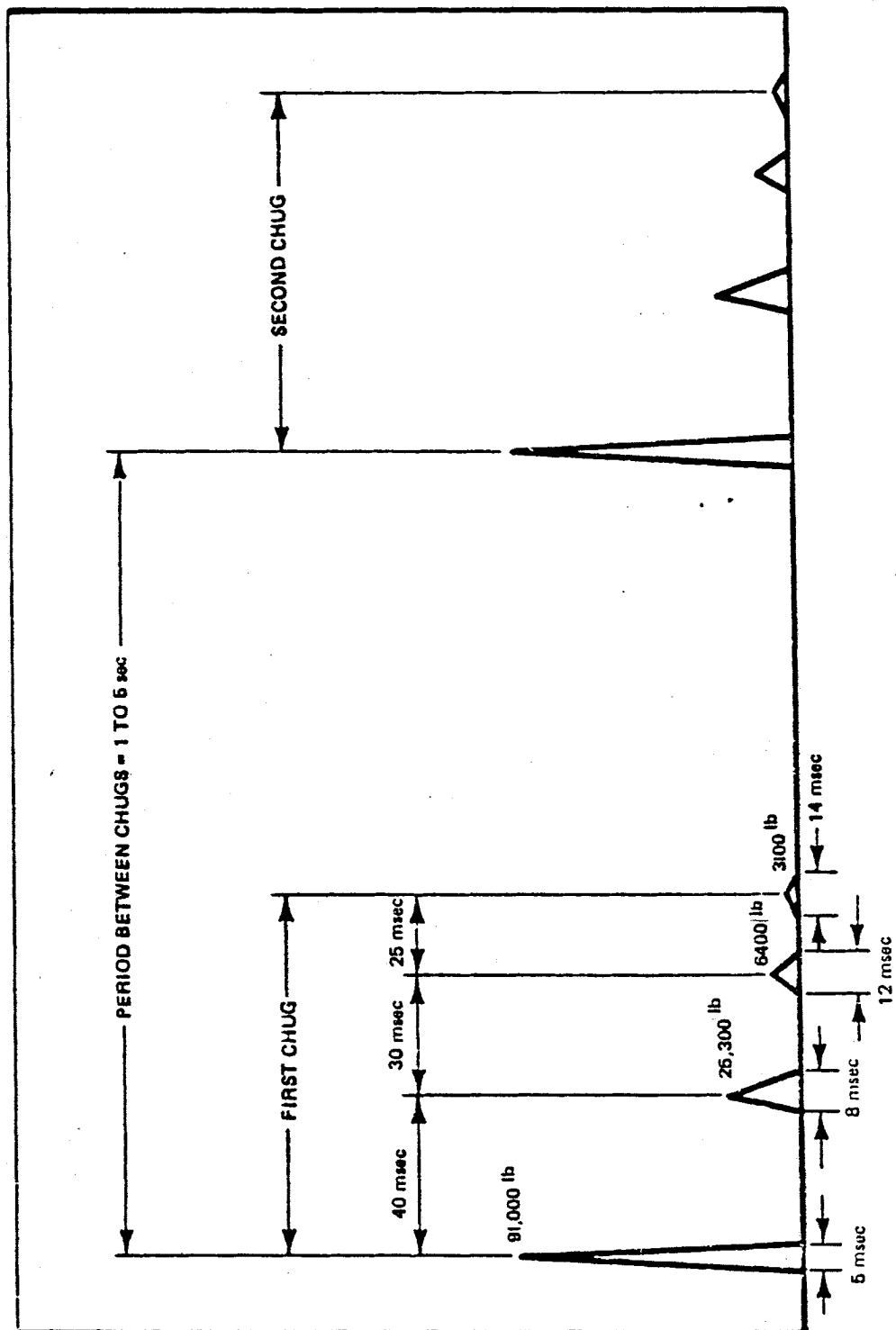


AMPLITUDE (lb)

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE A3.8-22

PEAK FORCE PULSE TRAIN IN TOP
VENT DURING CHUGGING

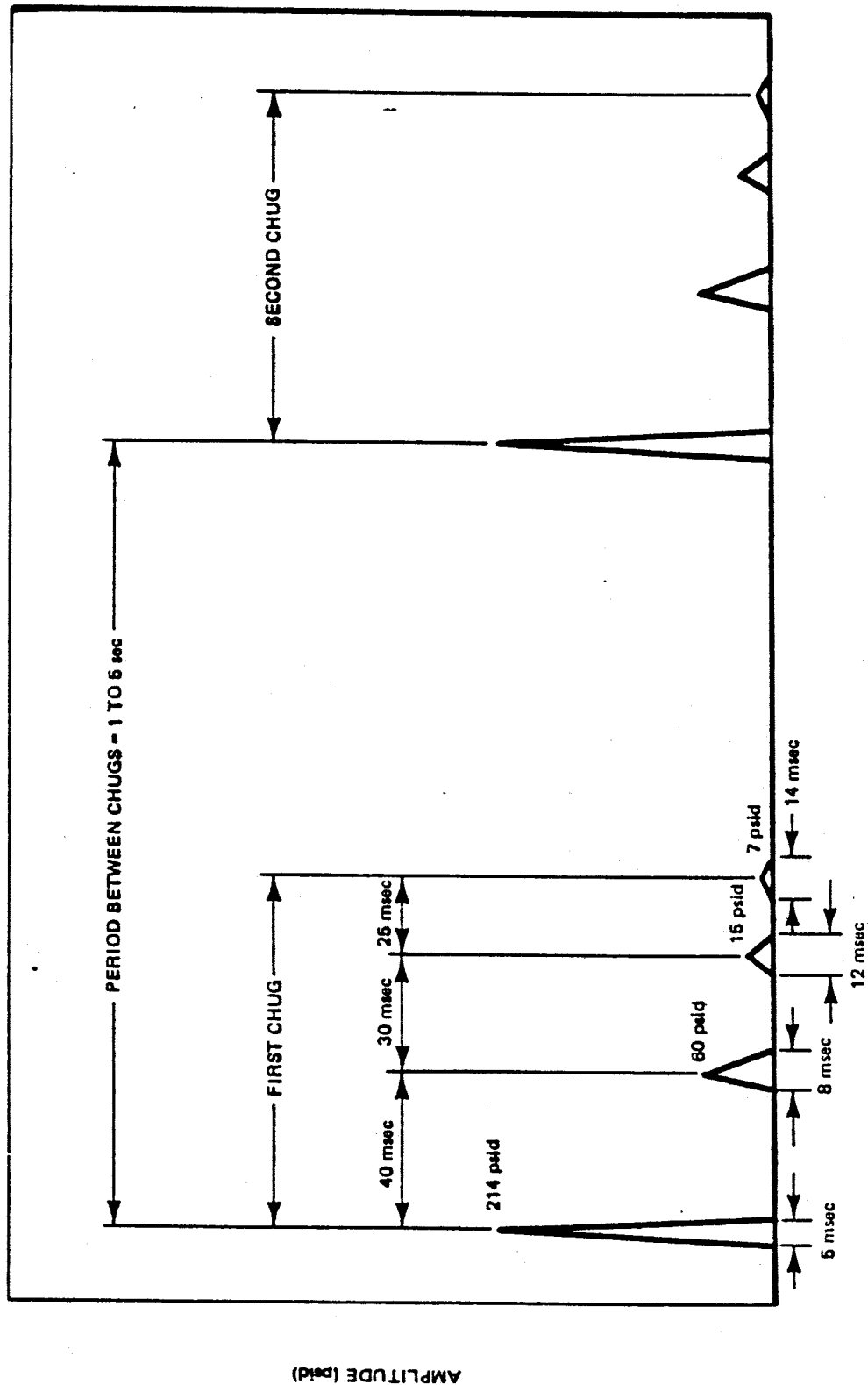


AMPLITUDE (lb)

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE A3.8-23

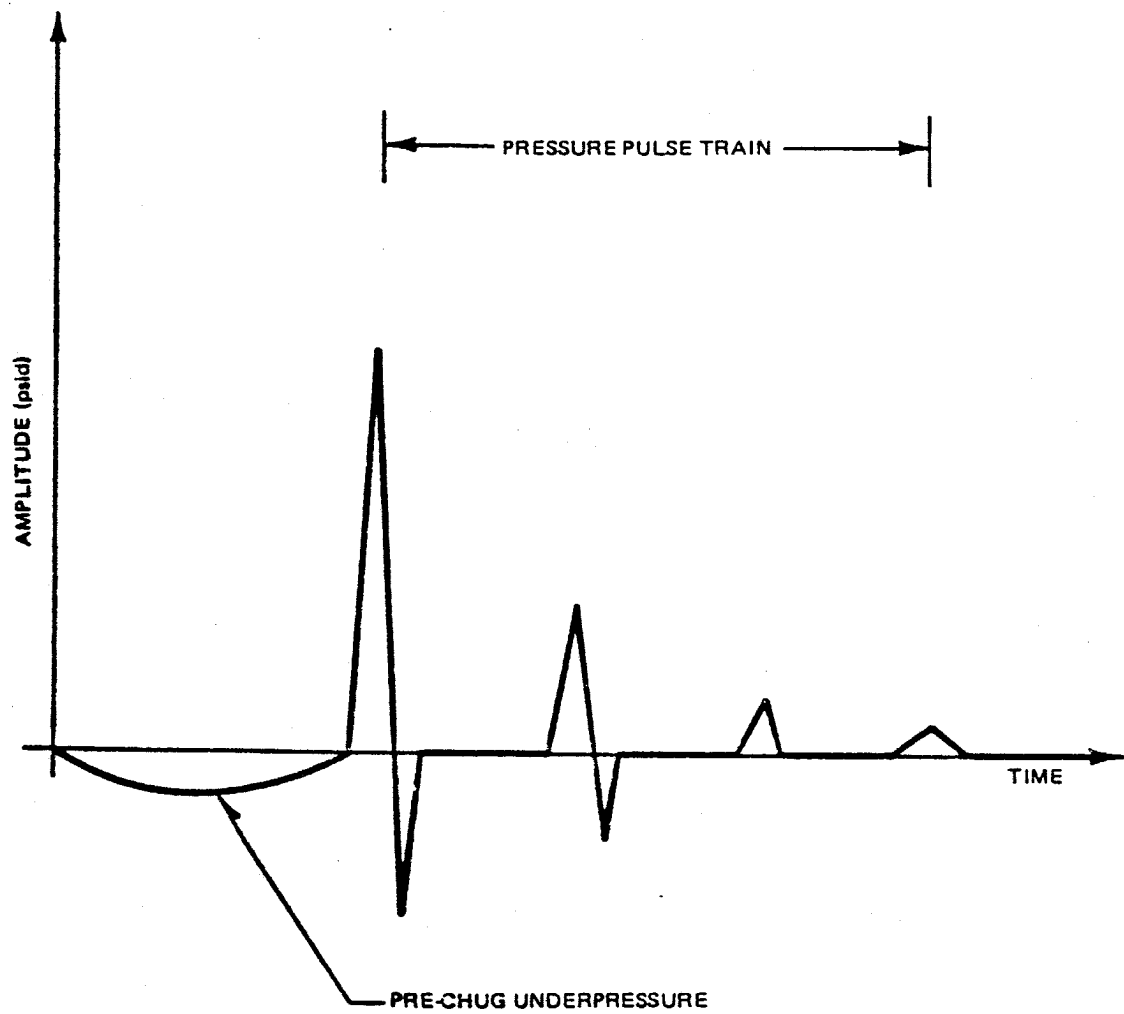
AVERAGE FORCE PULSE TRAIN IN TOP
VENT DURING CHUGGING



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE A3.8-24

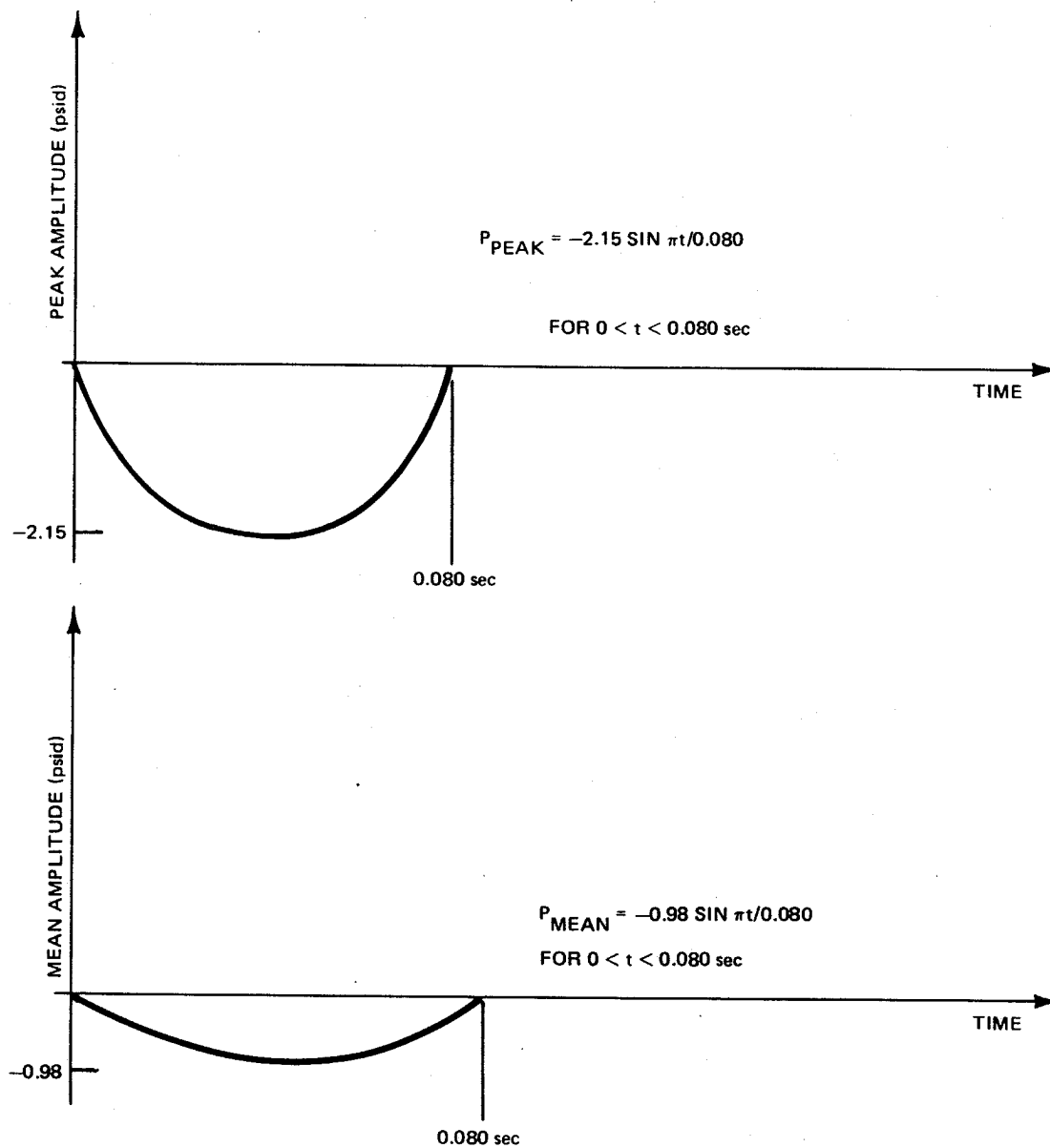
AVERAGE PRESSURE PULSE TRAIN IN TOP
VENT DURING CHUGGING



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UPDATED SAFETY ANALYSIS REPORT

FIGURE A3.8-25

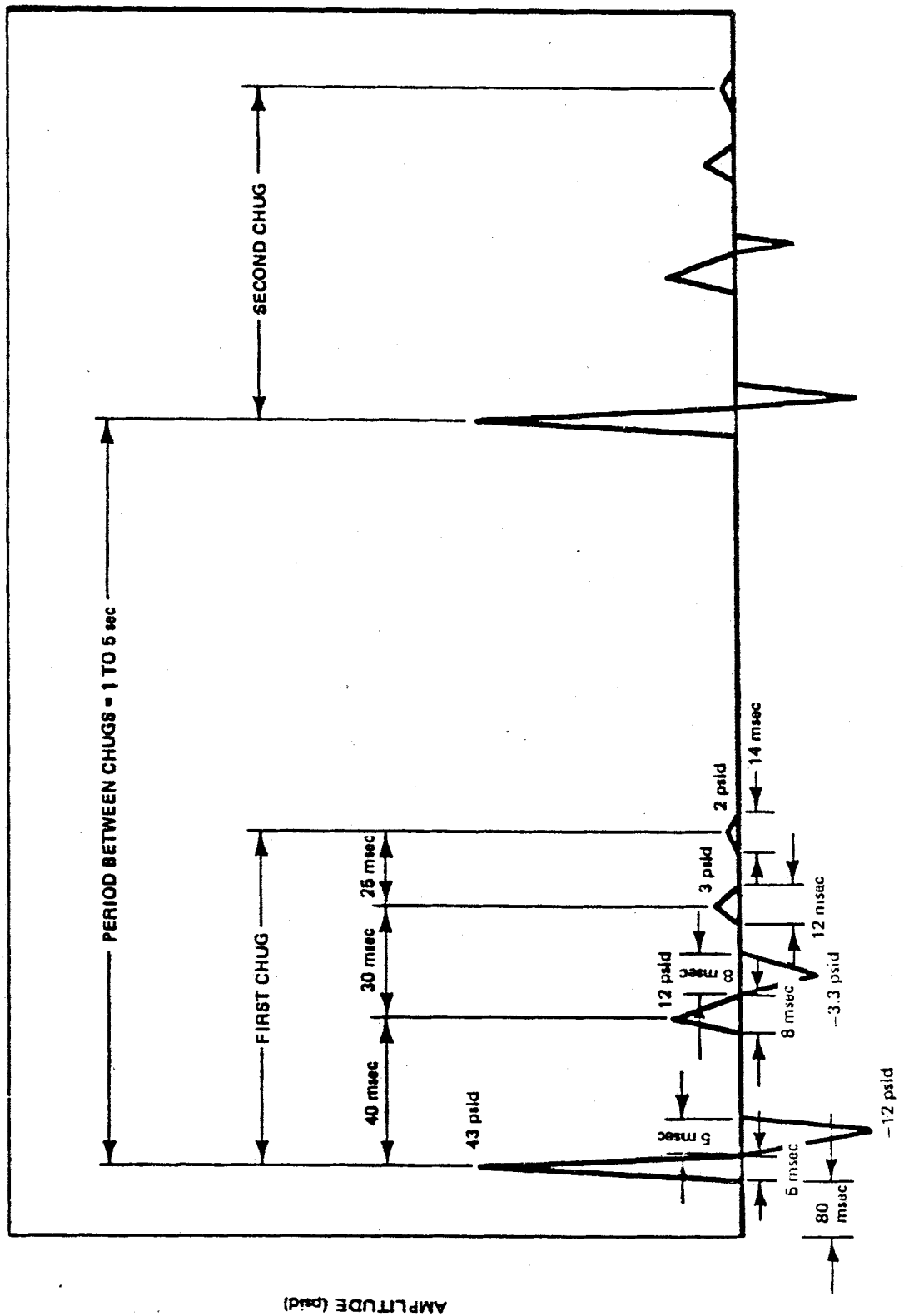
TYPICAL PRESSURE TIME-HISTORY FOR
WEIR ANNULUS DURING CHUGGING



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UPDATED SAFETY ANALYSIS REPORT**

FIGURE A3.8-26

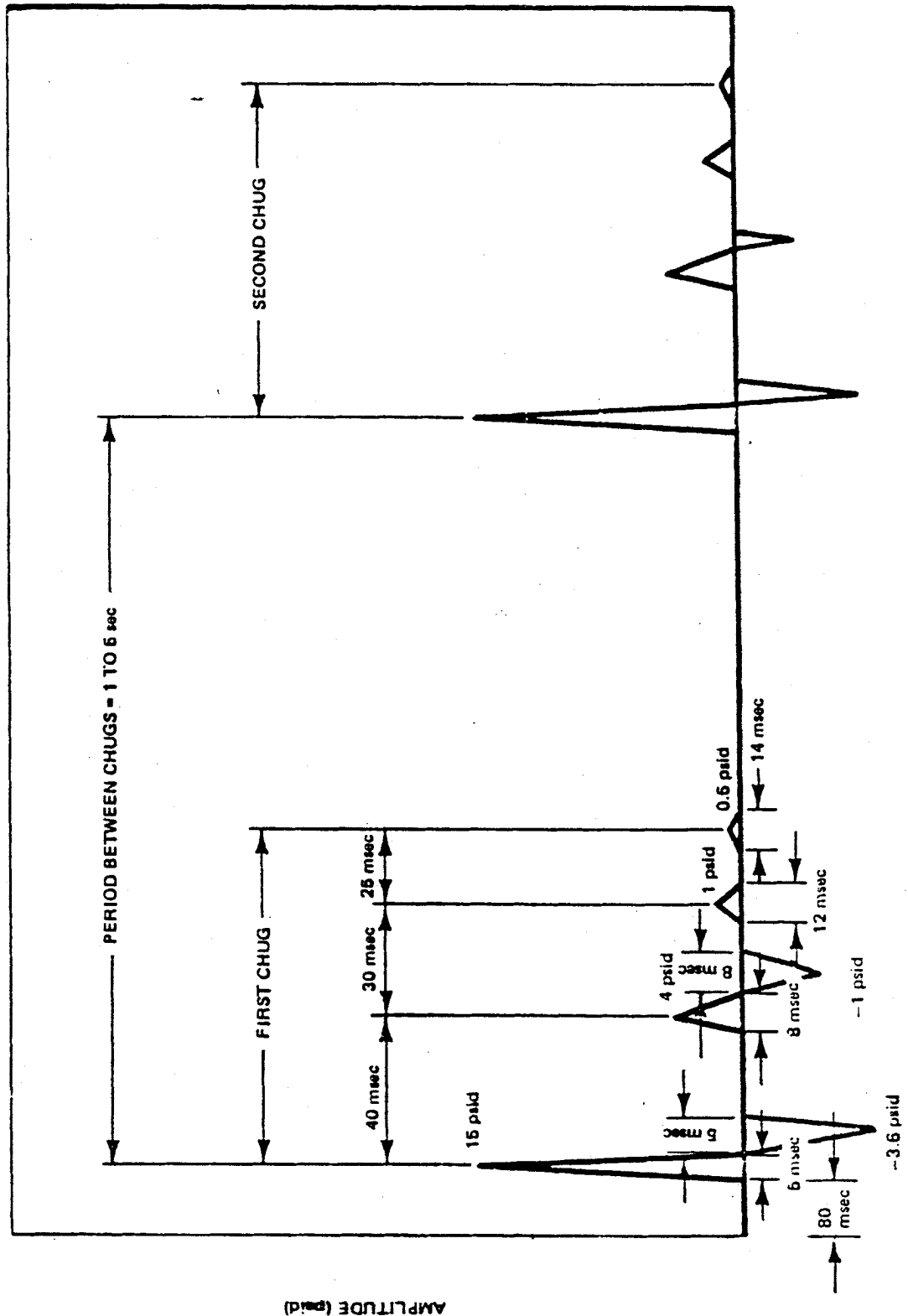
UNDERPRESSURE DISTRIBUTION ON THE WEIR
WALL AND DRYWELL I.D. WALL
DURING CHUGGING



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UPDATED SAFETY ANALYSIS REPORT

FIGURE A3.8-27

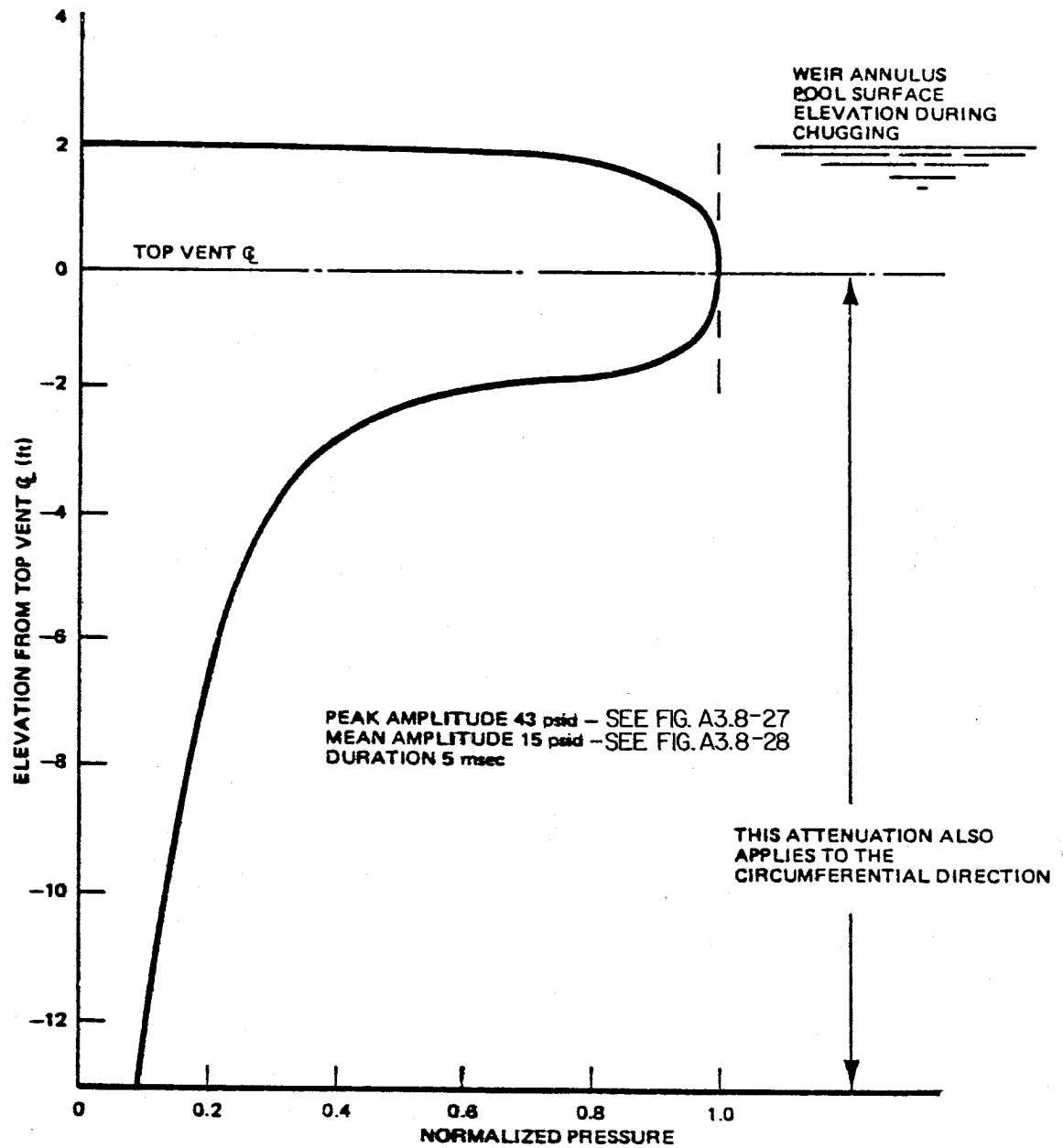
PEAK PRESSURE PULSE TRAIN ON THE
WEIR WALL AND DRYWELL I.D.
WALL DURING CHUGGING



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FIGURE A3.8-28

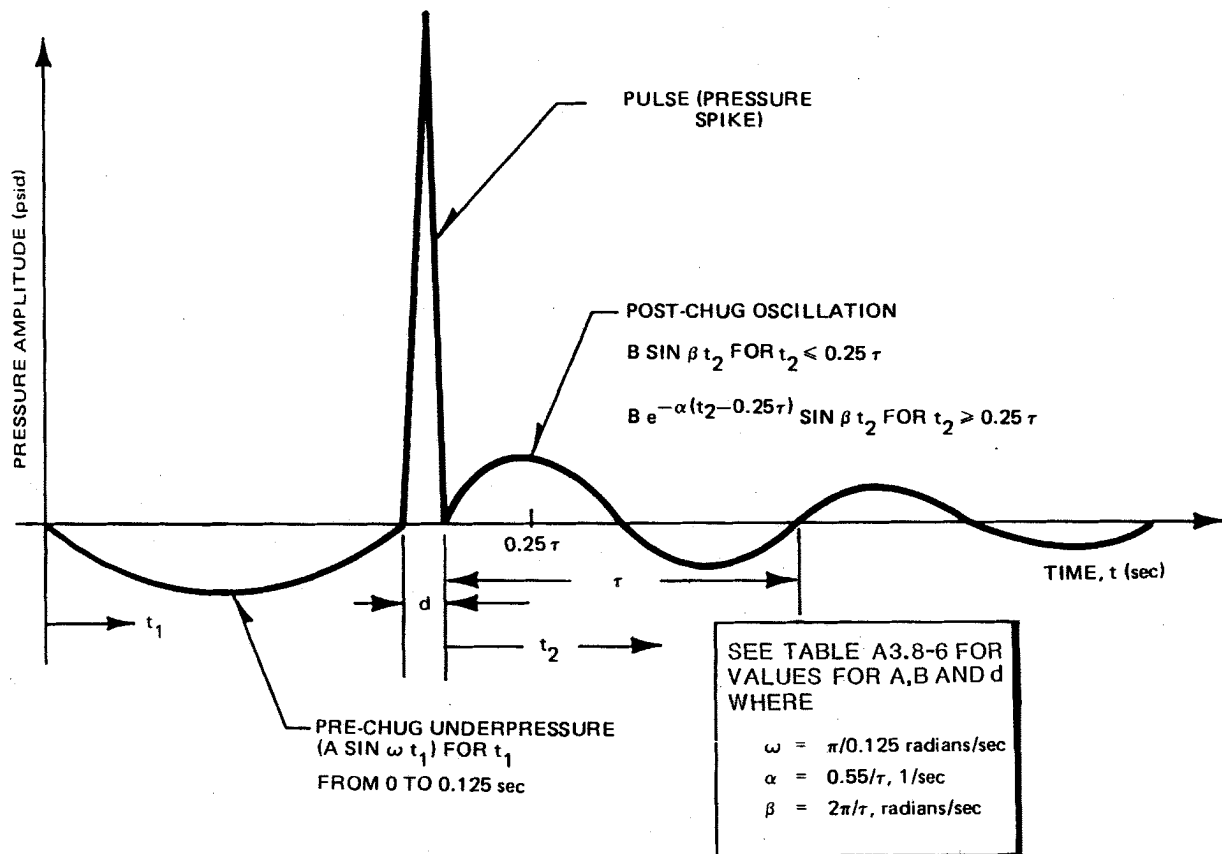
MEAN PRESSURE PULSE TRAIN ON THE WEIR
WALL AND DRYWELL I.D. WALL
DURING CHUGGING



CLINTON POWER STATION
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FIGURE A3.8-29

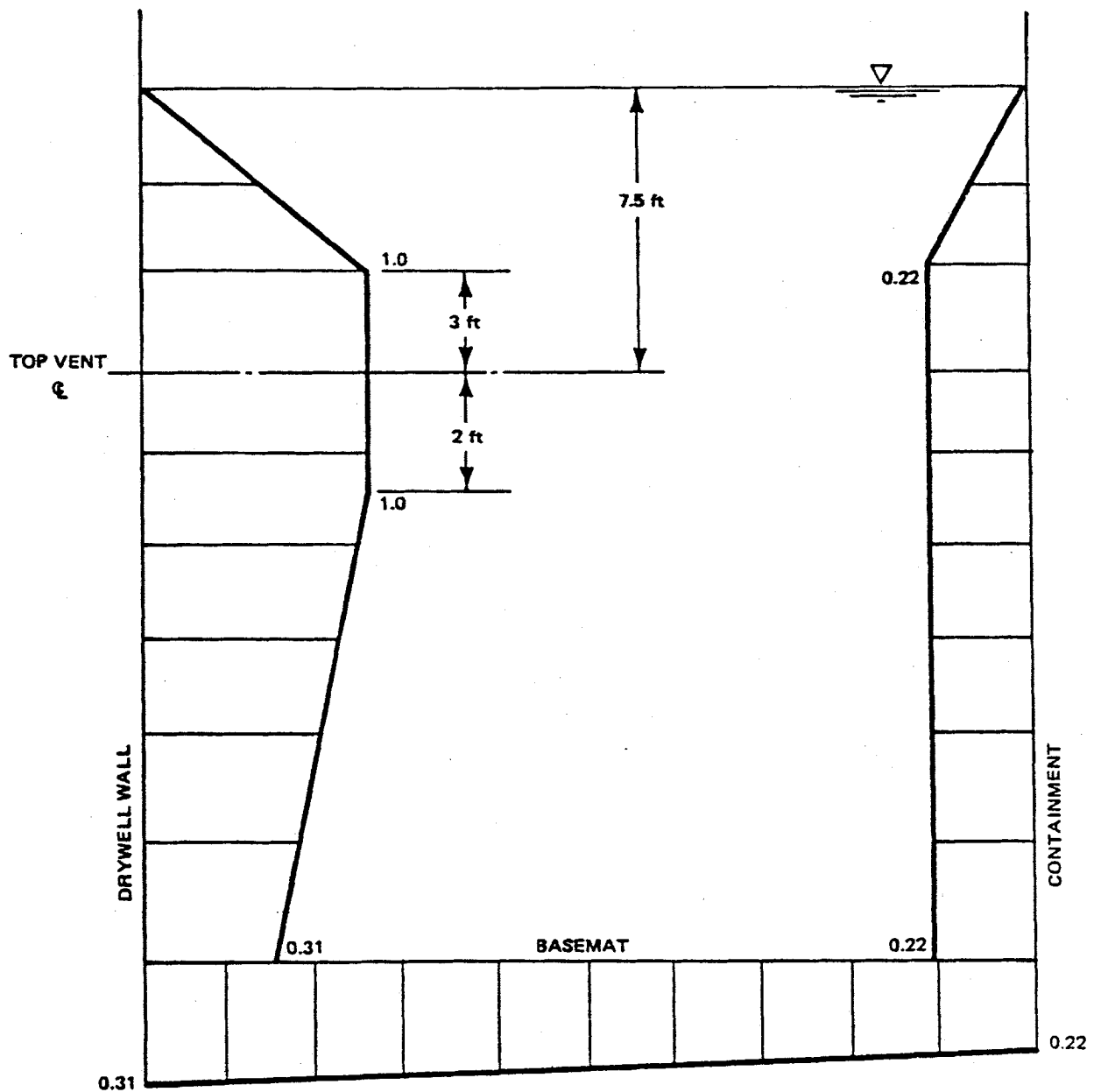
NORMALIZED WEIR ANNULUS PRESSURE
PULSE ATTENUATION



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FIGURE A3.8-30

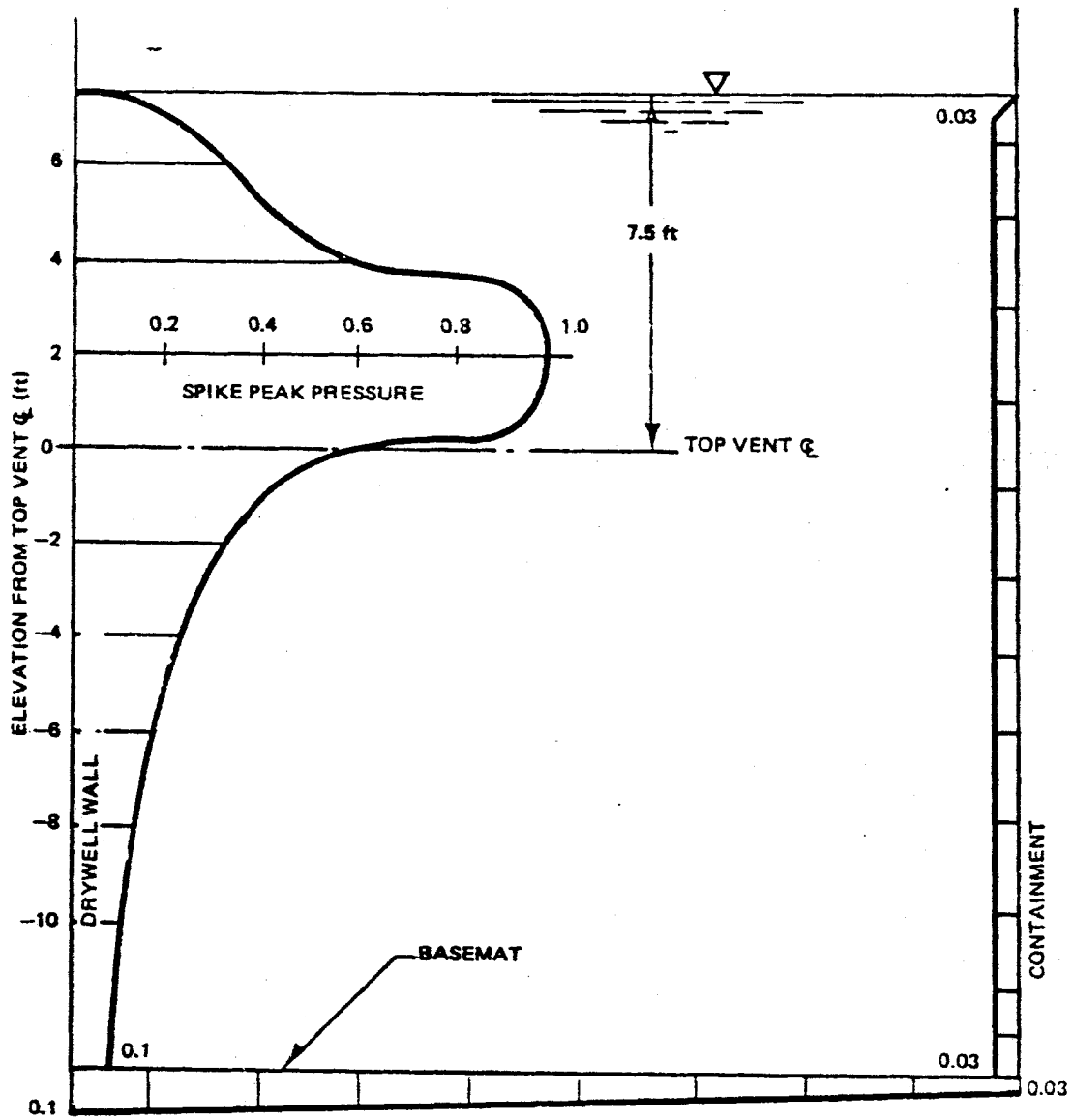
TYPICAL PRESSURE TIME-HISTORY ON
 THE POOL BOUNDARY DURING CHUGGING



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE A3.8-31

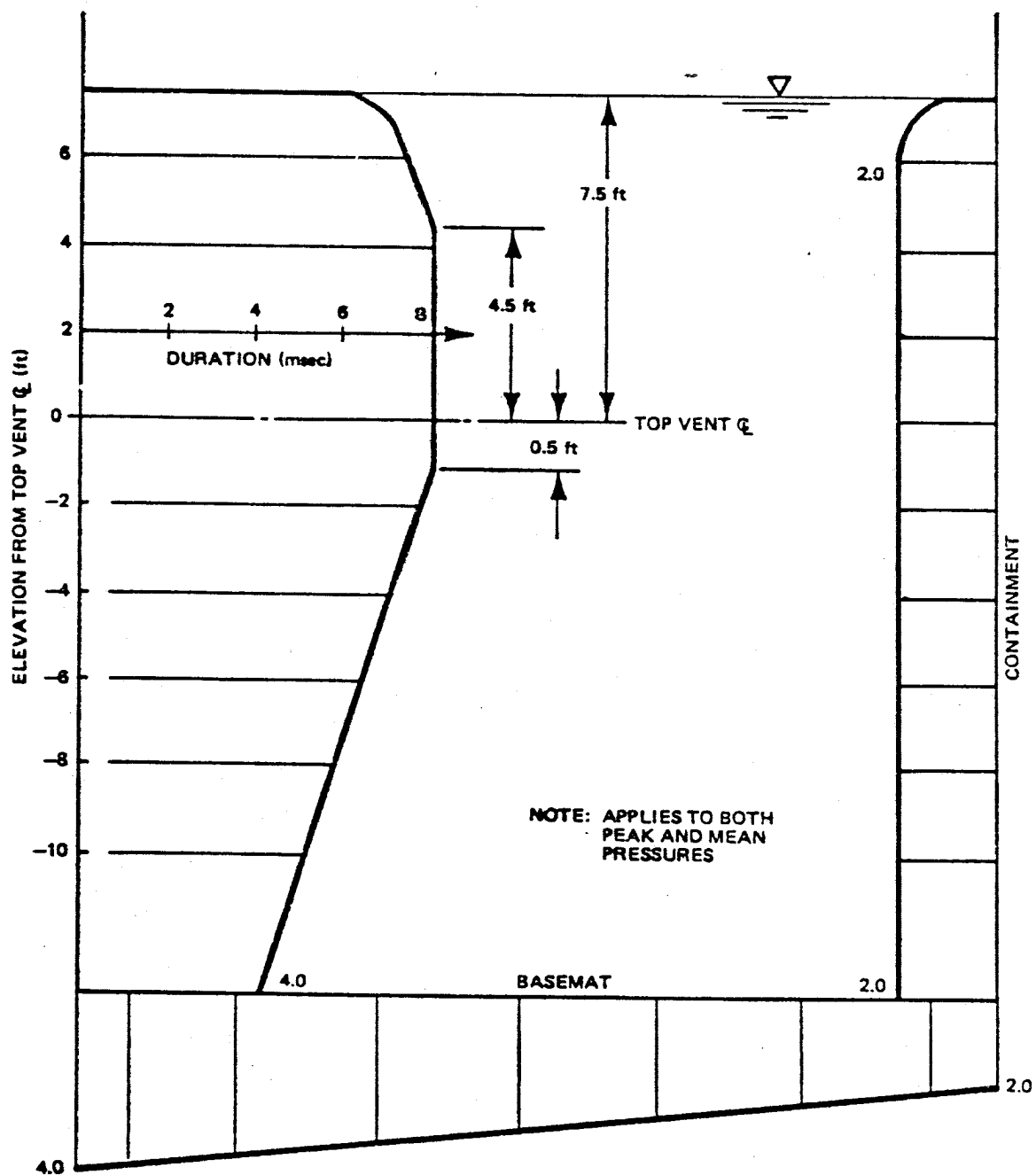
SUPPRESSION POOL CHUGGING NORMALIZED
PEAK UNDERPRESSURE ATTENUATION



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UPDATED SAFETY ANALYSIS REPORT

FIGURE A3.8-32

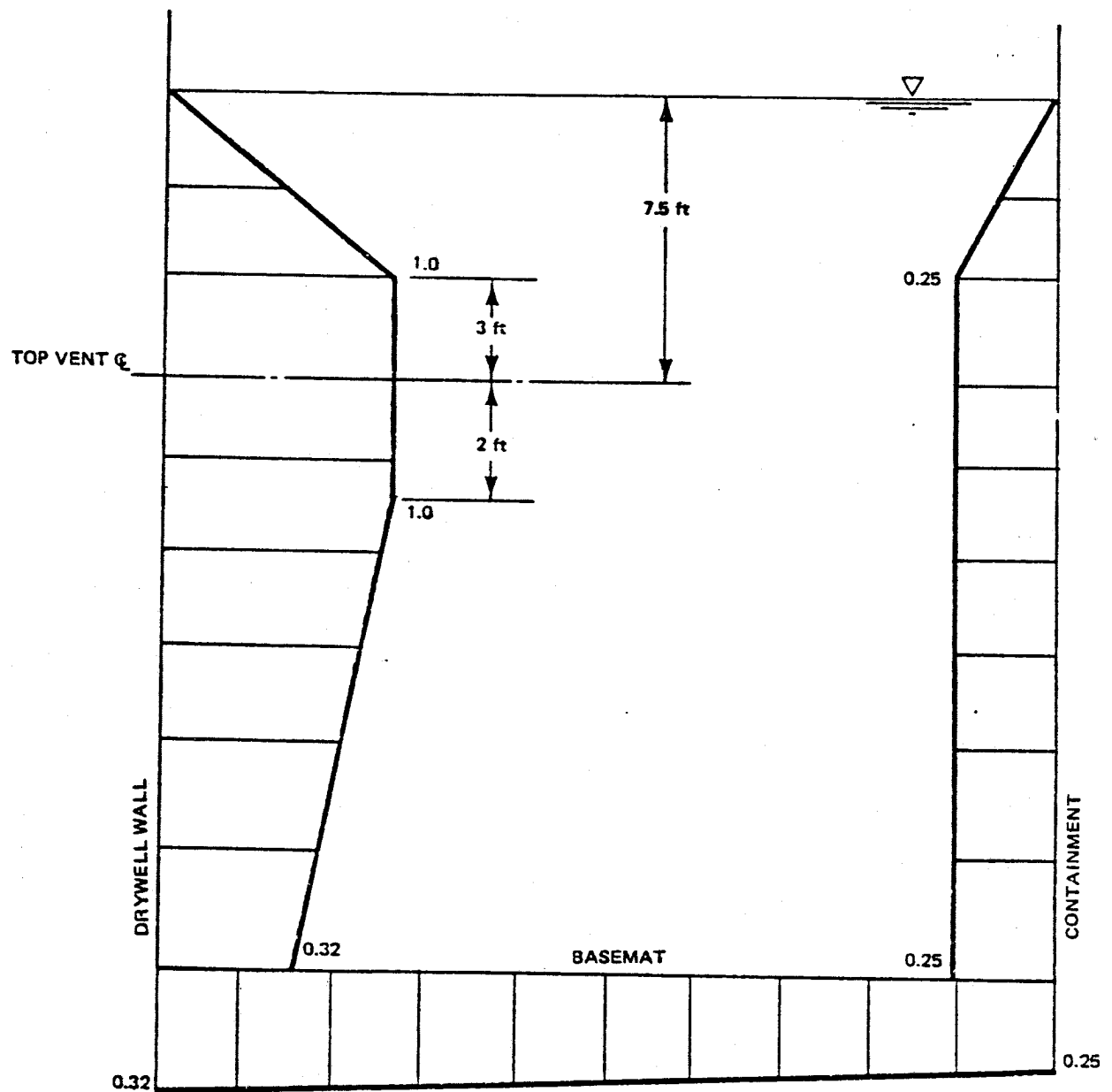
SUPPRESSION POOL CHUGGING
NORMALIZED SPIKE ATTENUATION



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE A3.8-33

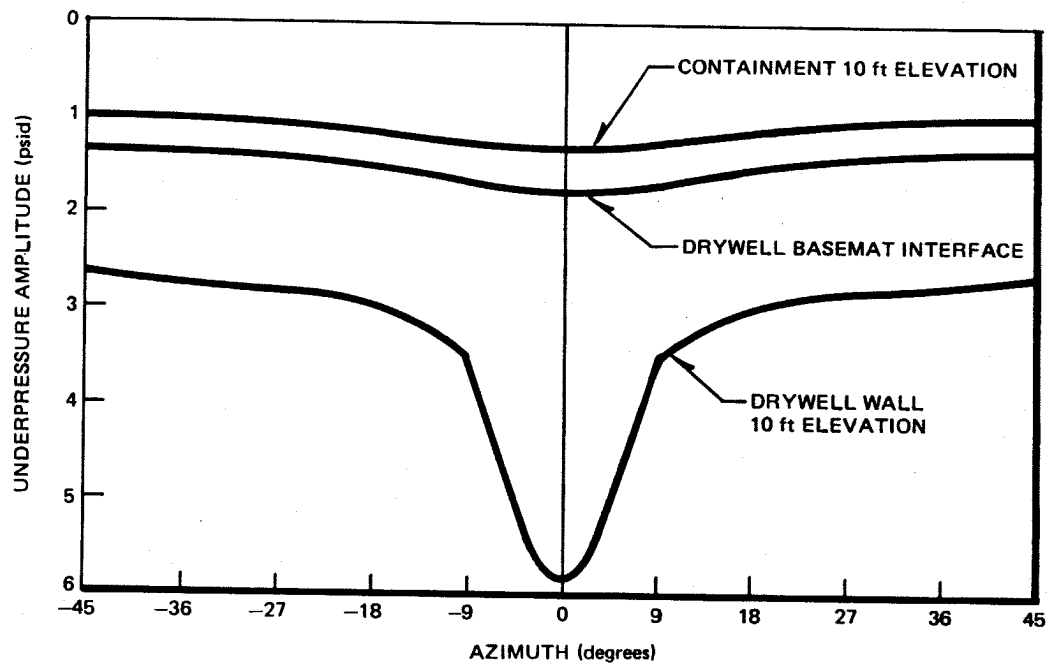
SUPPRESSION POOL CHUGGING SPIKE
DURATION "d" AS A FUNCTION OF LOCATION
IN THE POOL



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FIGURE A3.8-34

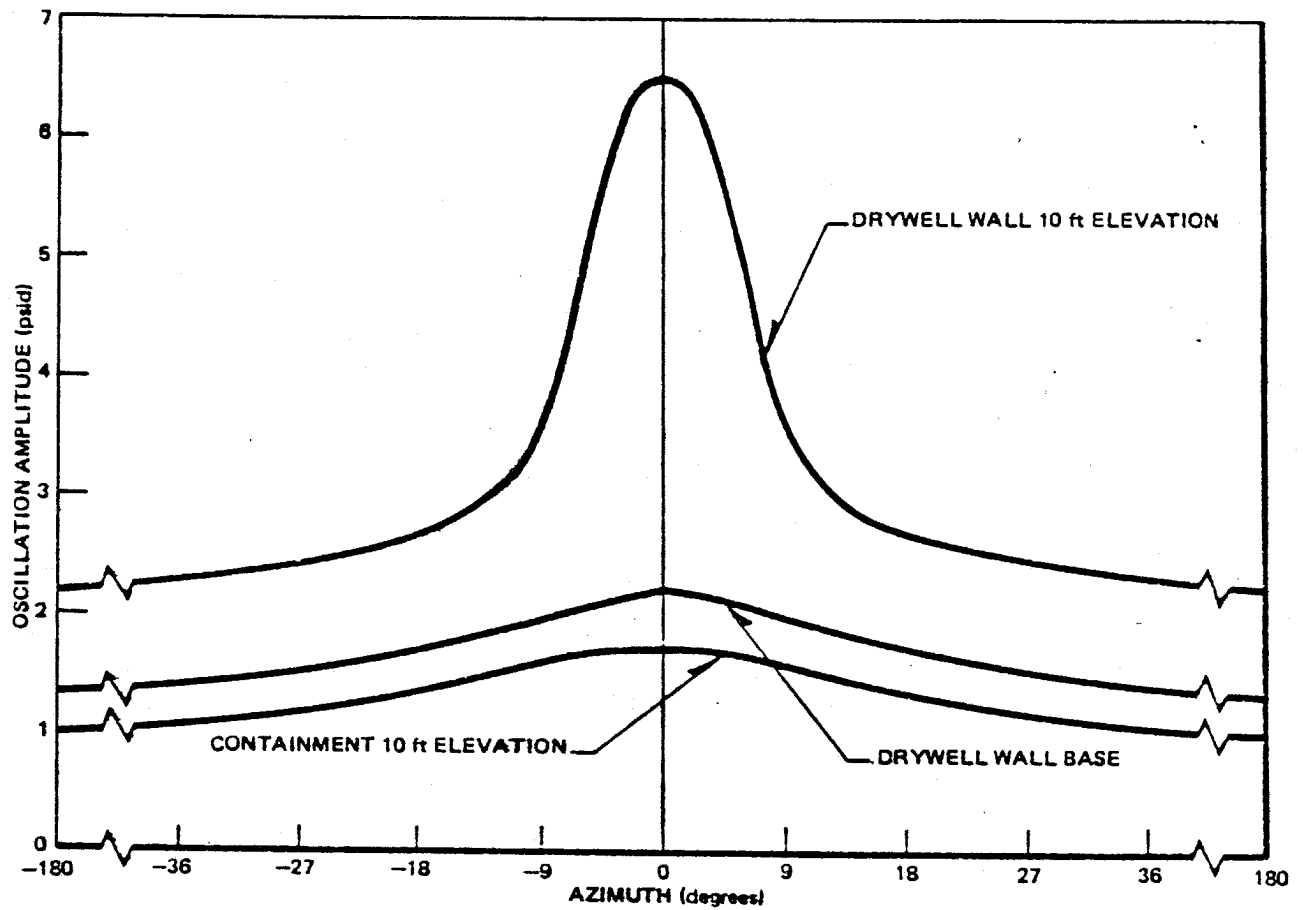
SUPPRESSION POOL CHUGGING NORMALIZED
PEAK POST CHUG OSCILLATIONS



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UPDATED SAFETY ANALYSIS REPORT

FIGURE A3.8-35

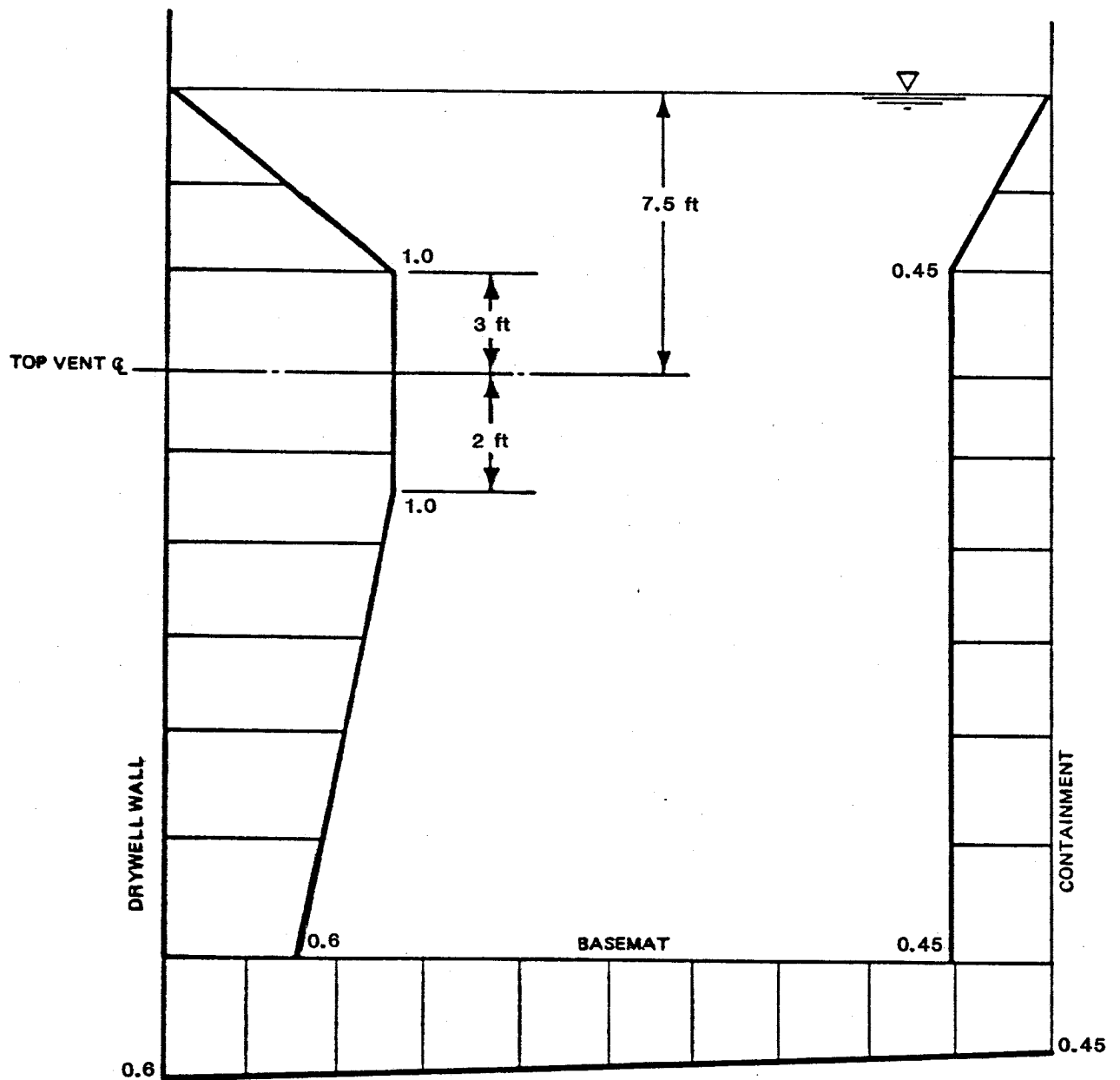
CIRCUMFERENTIAL UNDERPRESSURE
AMPLITUDE ATTENUATION



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UPDATED SAFETY ANALYSIS REPORT

FIGURE A3.8-36

CIRCUMFERENTIAL POST CHUG OSCILLATION
AMPLITUDE ATTENUATION



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UPDATED SAFETY ANALYSIS REPORT

FIGURE A3.8-37

SUPPRESSION POOL CHUGGING
NORMALIZED POST CHUG
OSCILLATIONS ATTENUATION

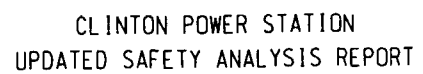
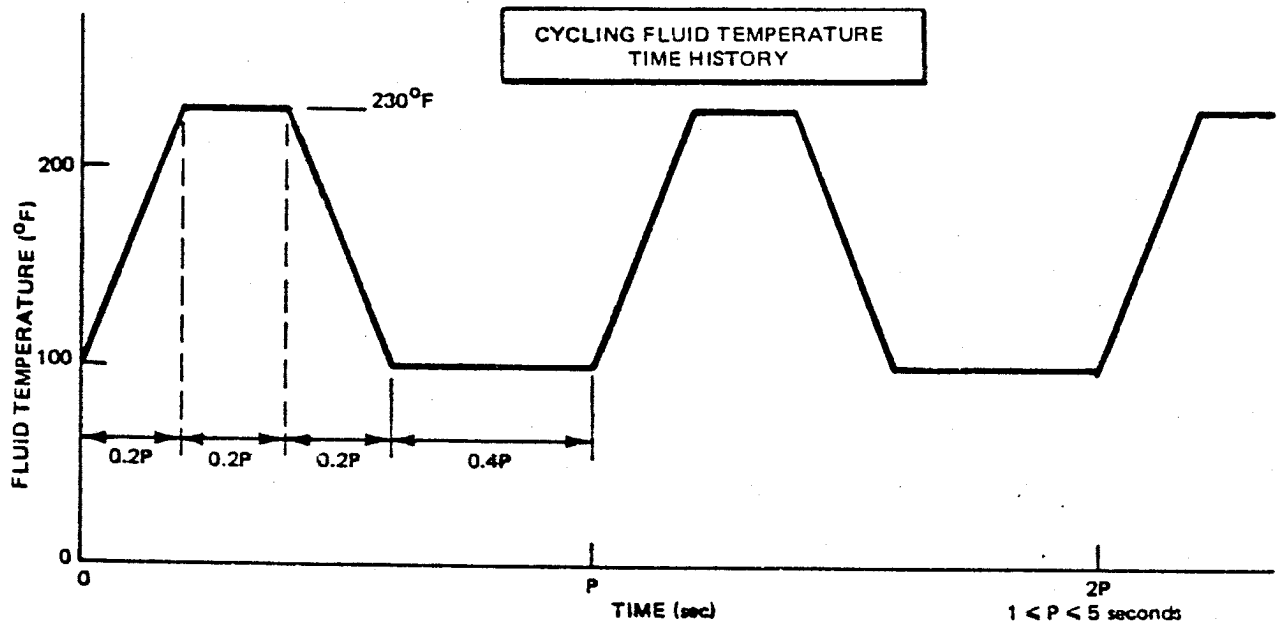


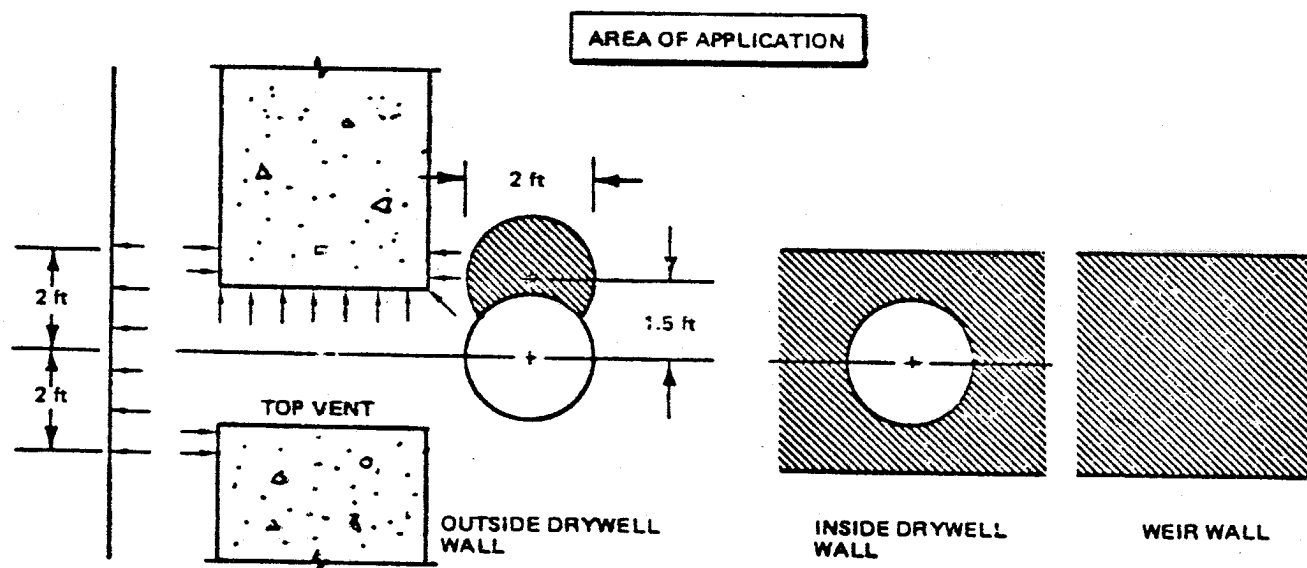
FIGURE A3.8-37A
SUPPRESSION POOL CHUGGING
NORMALIZED POST MEAN
UNDERPRESSURE ATTENUATION



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UPDATED SAFETY ANALYSIS REPORT**

FIGURE A3.8-38

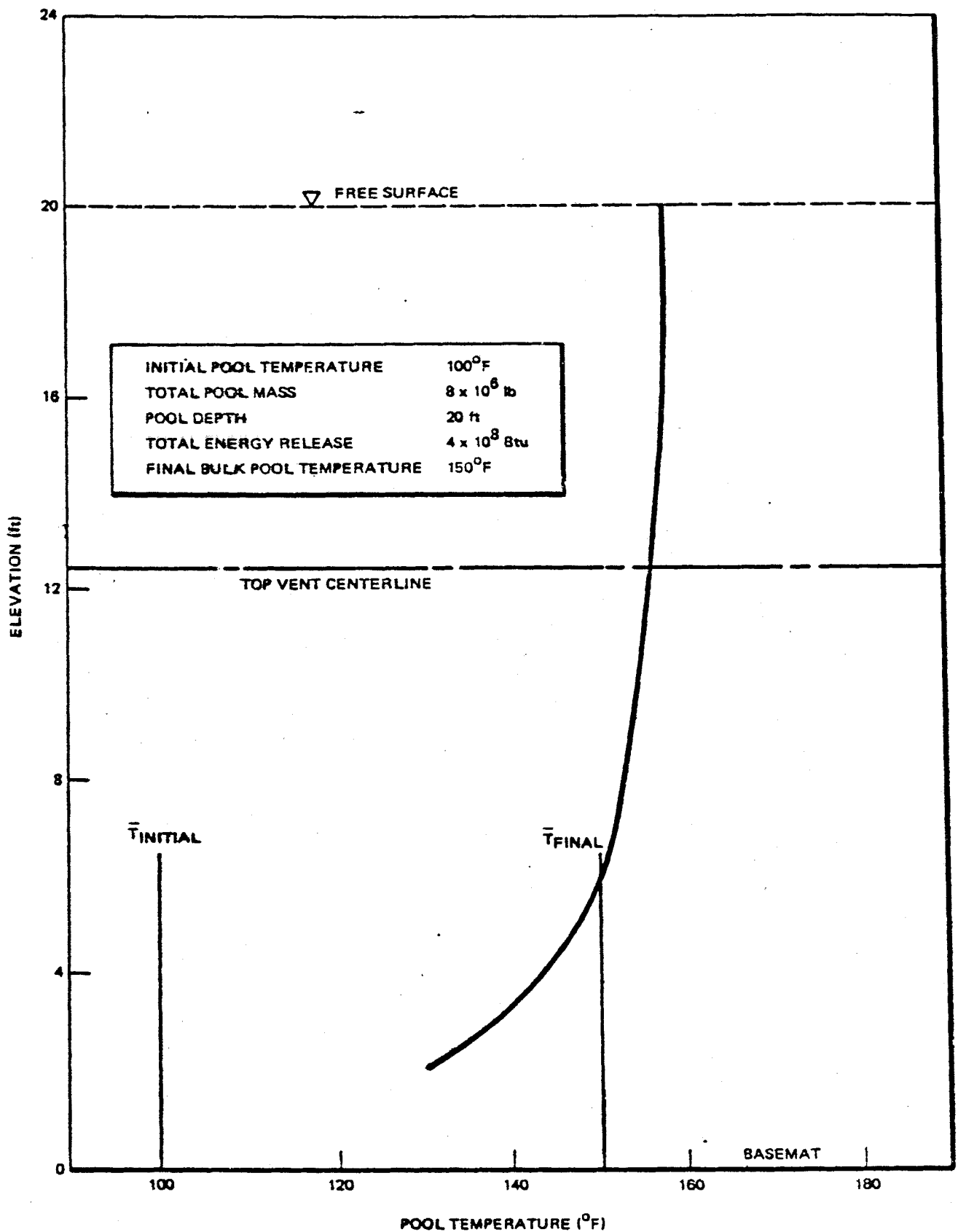
DRYWELL TOP VENT CYCLIC TEMPERATURE
PROFILE AND AREA OF APPLICATION
DURING CHUGGING



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UPDATED SAFETY ANALYSIS REPORT

FIGURE A3.8-39

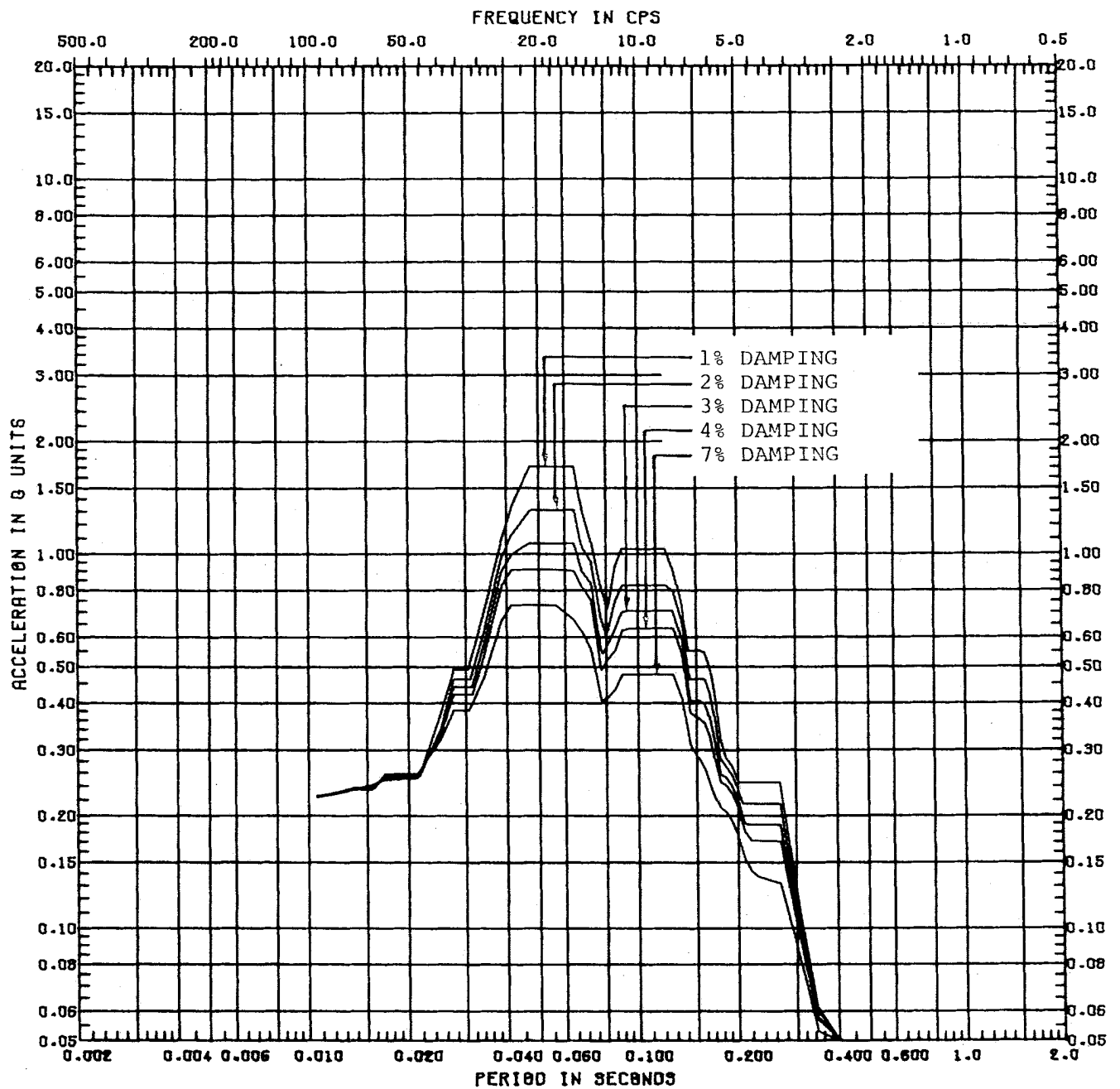
DRYWELL TOP VENT CYCLIC TEMPERATURE
PROFILE DURING CHUGGING



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

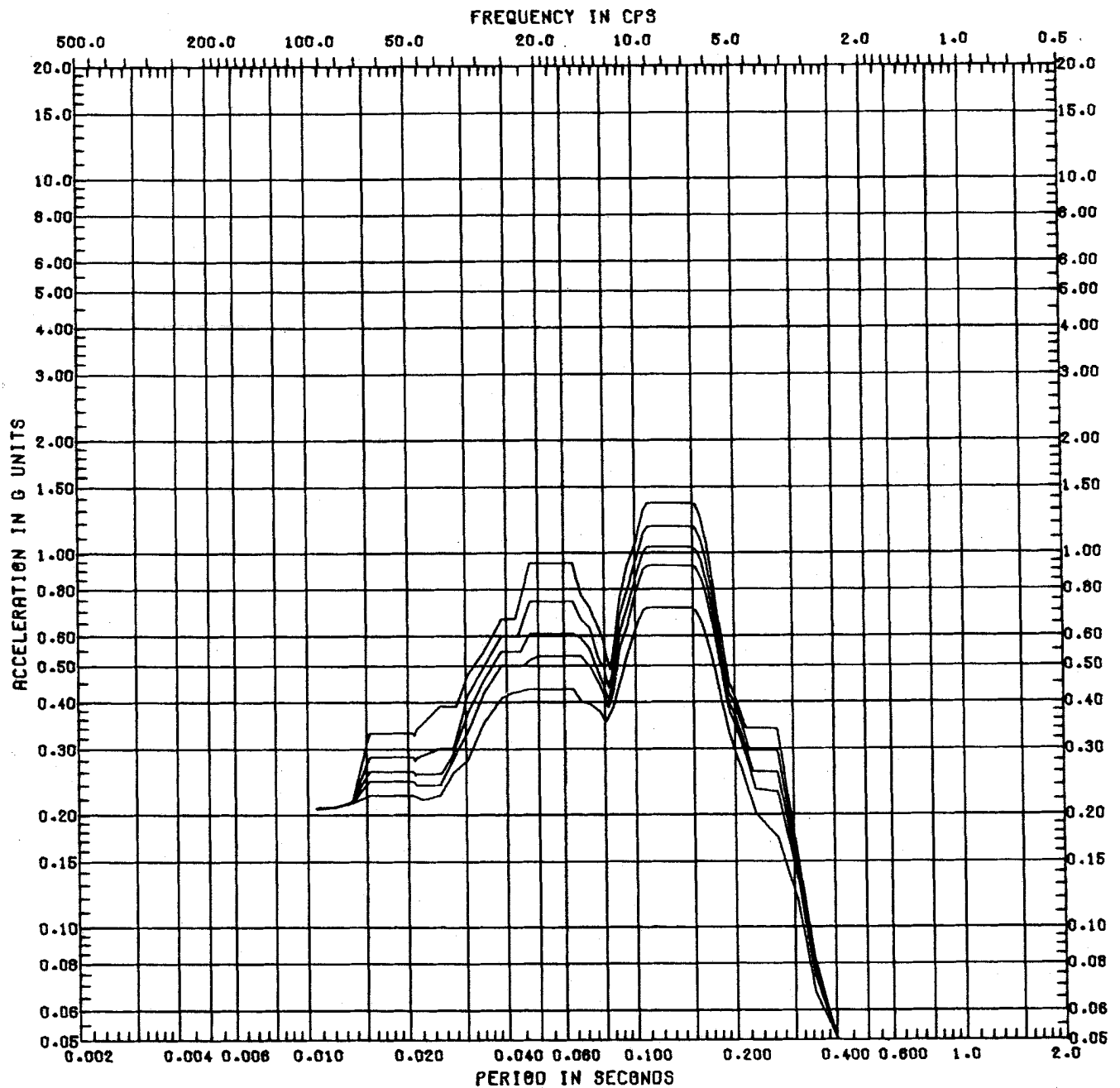
FIGURE A3.8-40

SUPPRESSION POOL TEMPERATURE
PROFILE FOR LARGE BREAKS



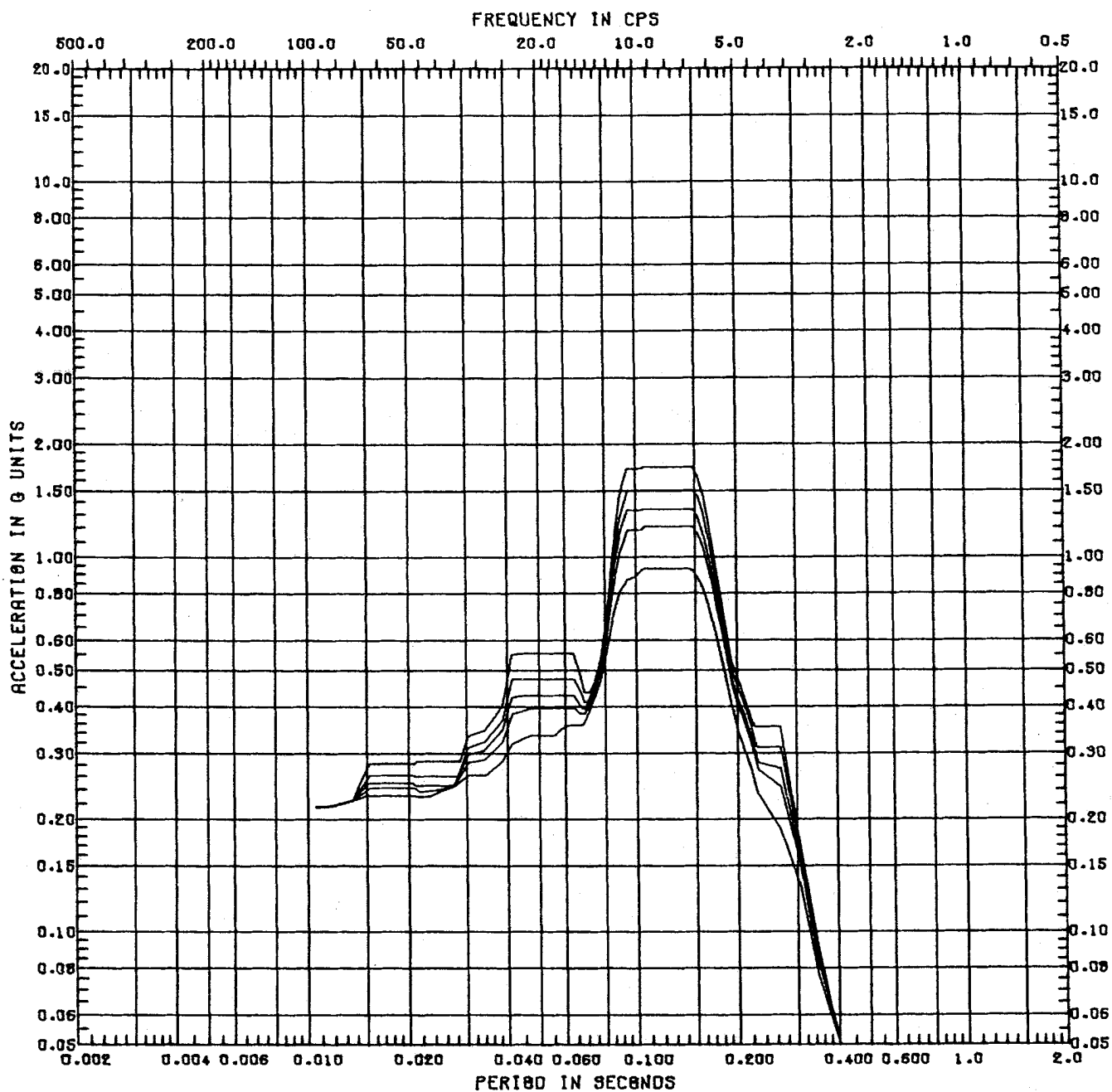
CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

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



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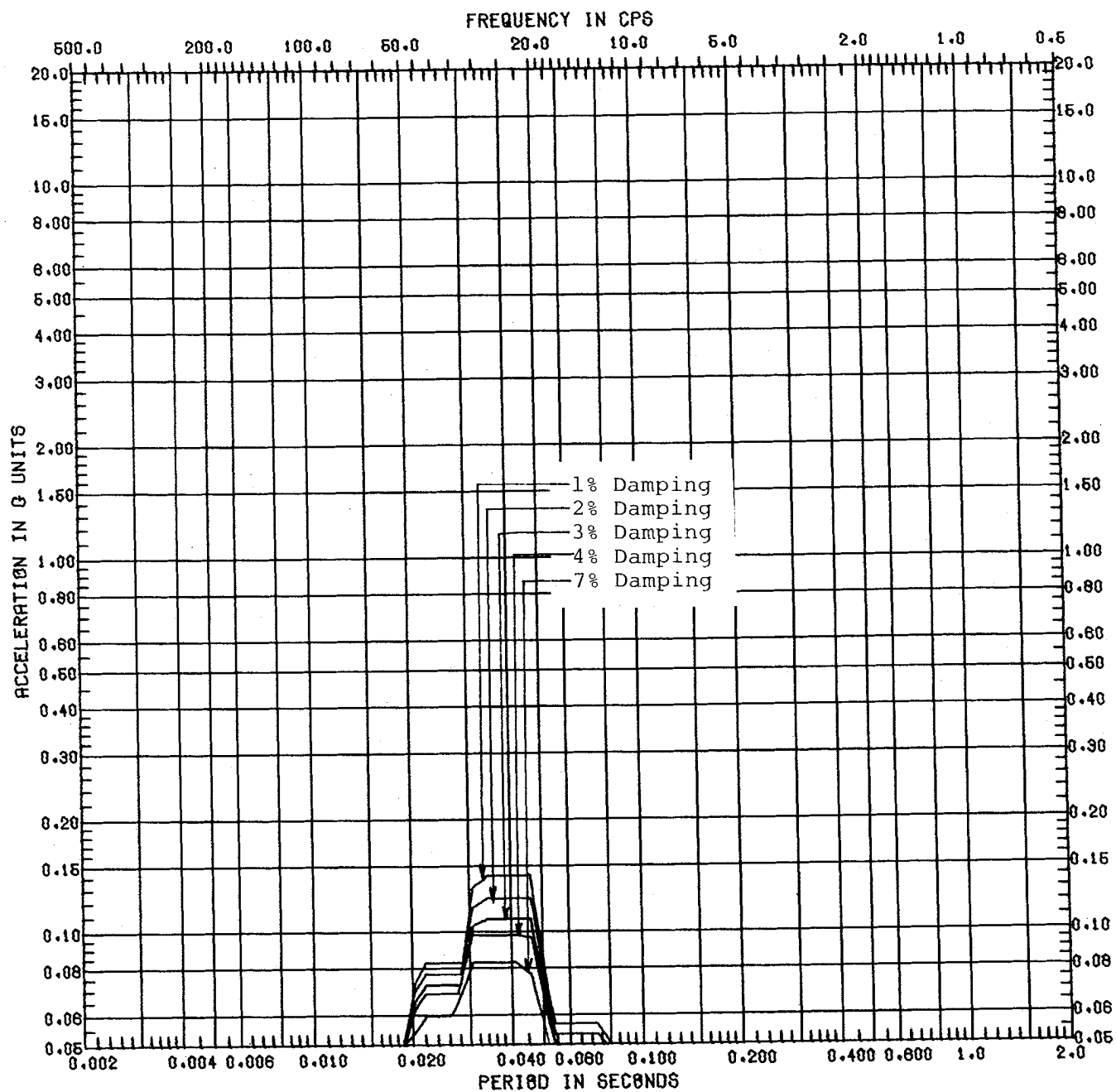
FIGURE A3.8-42
SRV QUENCHER ALL VALVE
VERTICAL RESPONSE SPECTRA
FOR DRYWELL WALL,
ELEVATION 712'-0"



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE A3.8-43

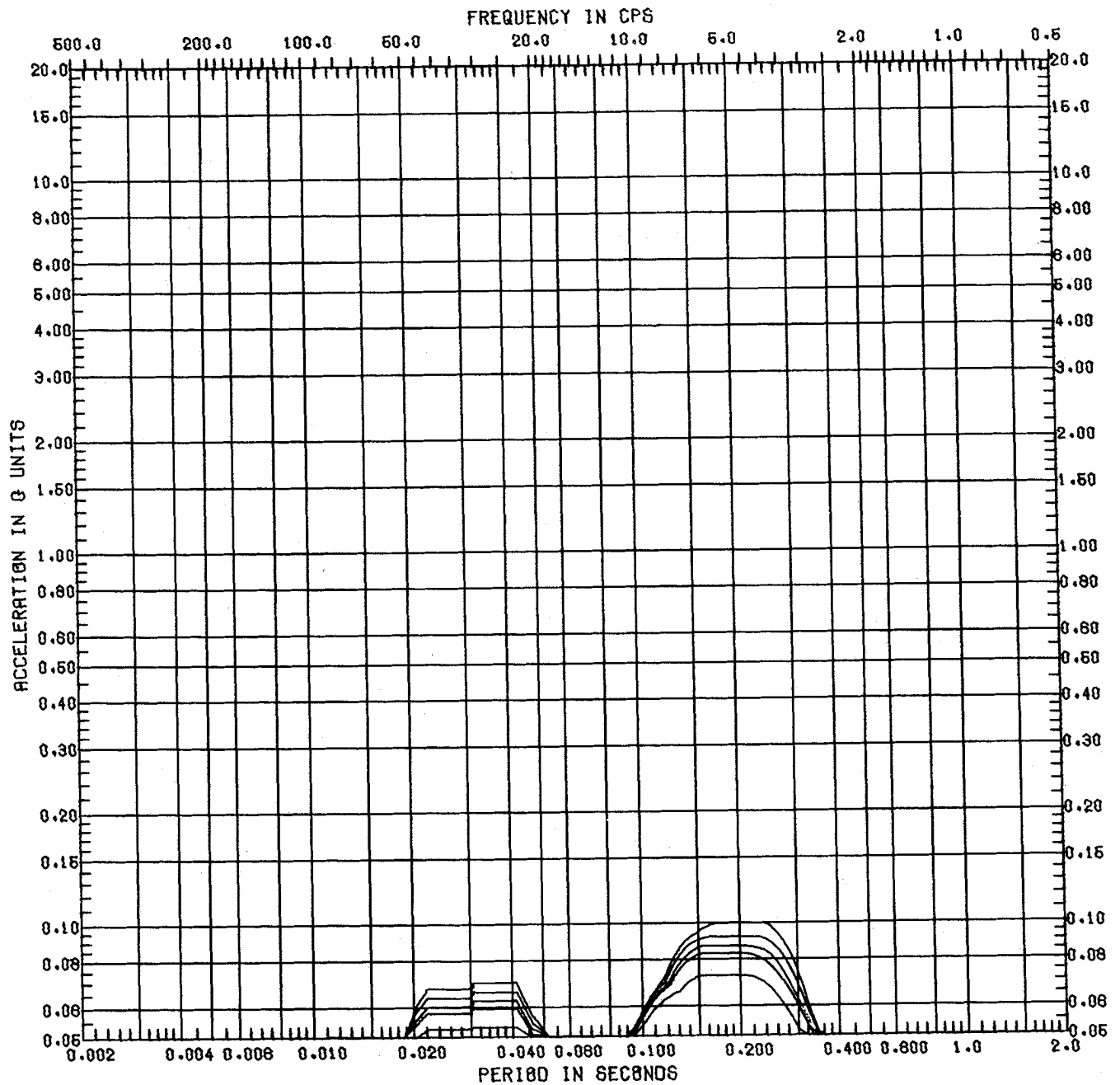
SRV QUENCHER ALL VALVE
VERTICAL RESPONSE SPECTRA
FOR PEDESTAL, ELEVATION 724'-1 3/4"



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UPDATED SAFETY ANALYSIS REPORT

FIGURE A3.8-44

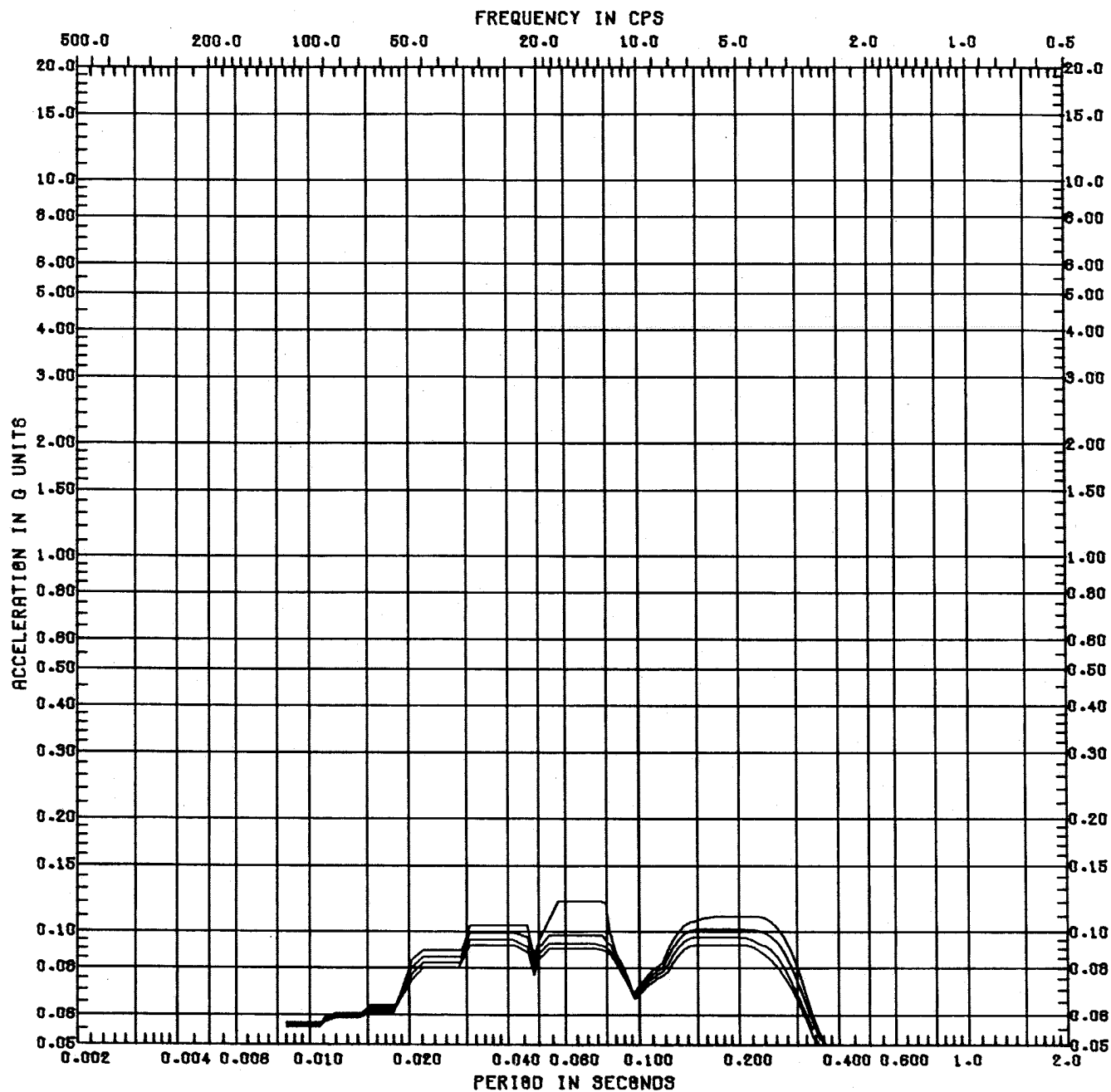
LOCA BUBBLE HORIZONTAL RESPONSE SPECTRA
FOR CONTAINMENT WALL
ELEVATION 712'-0"



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE A3.8-45

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

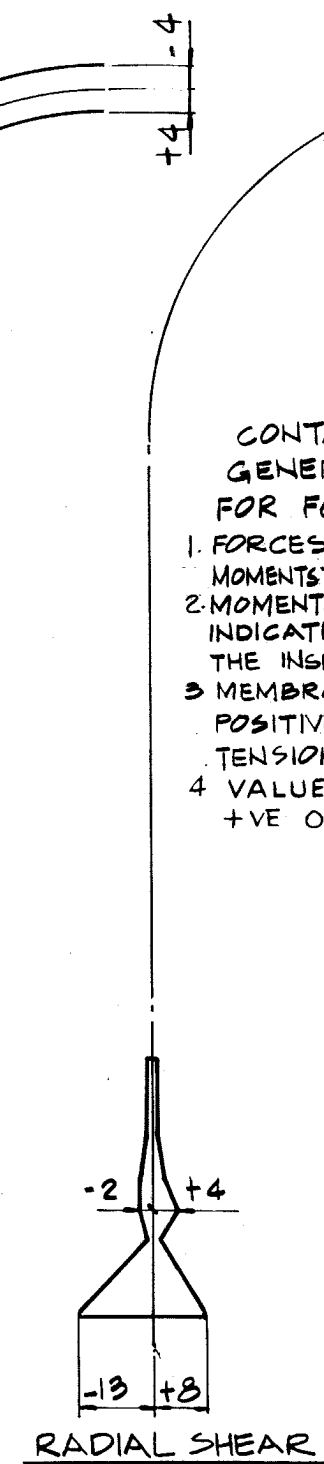
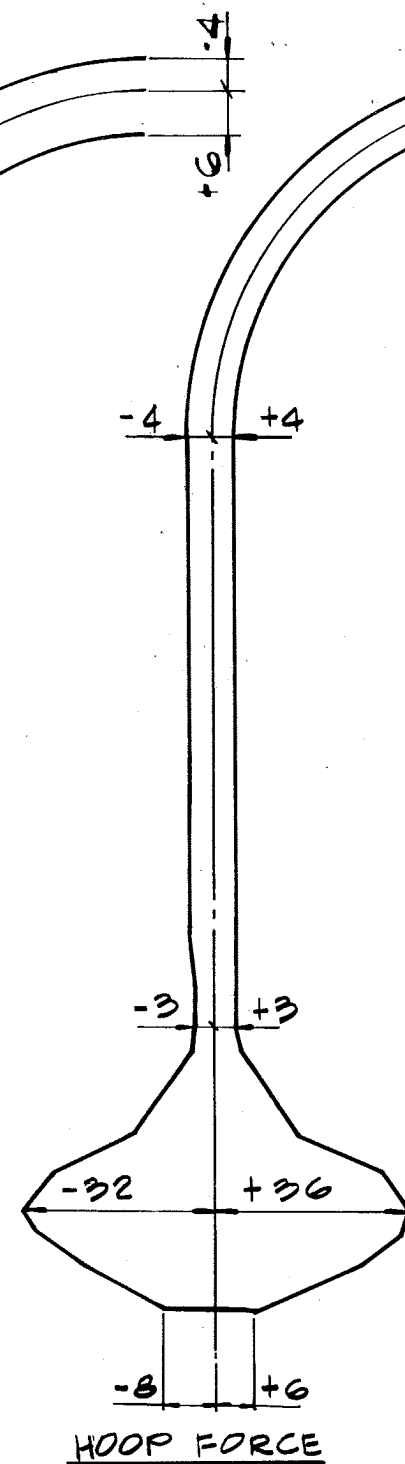
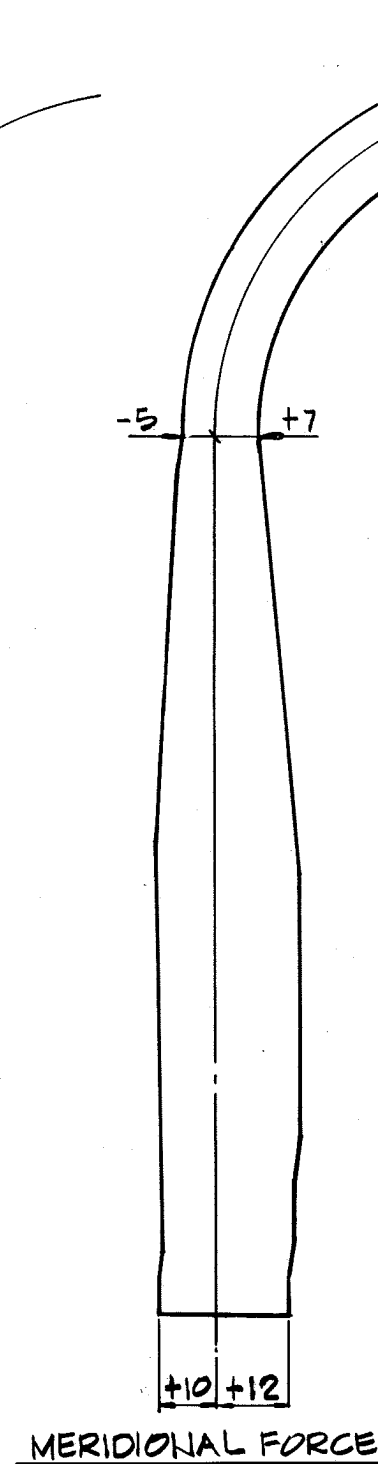
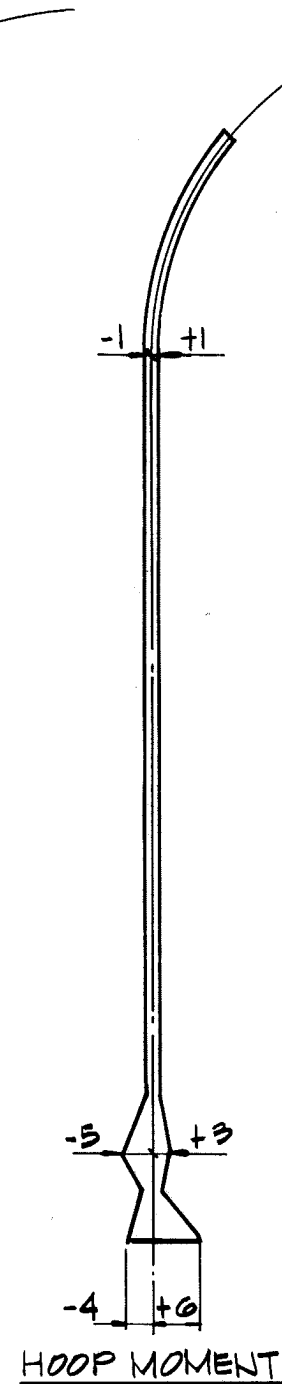
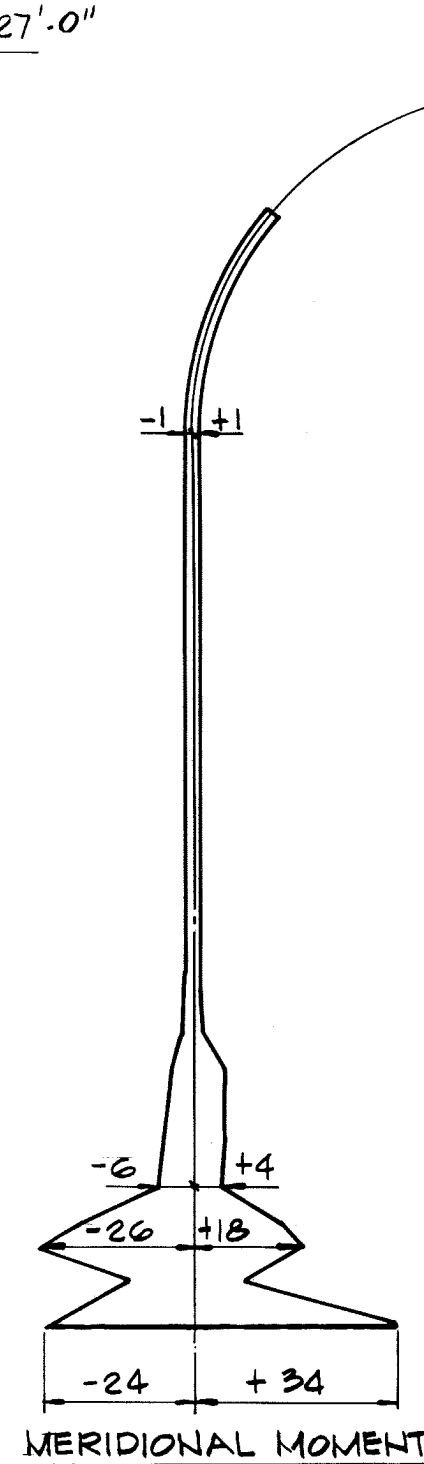
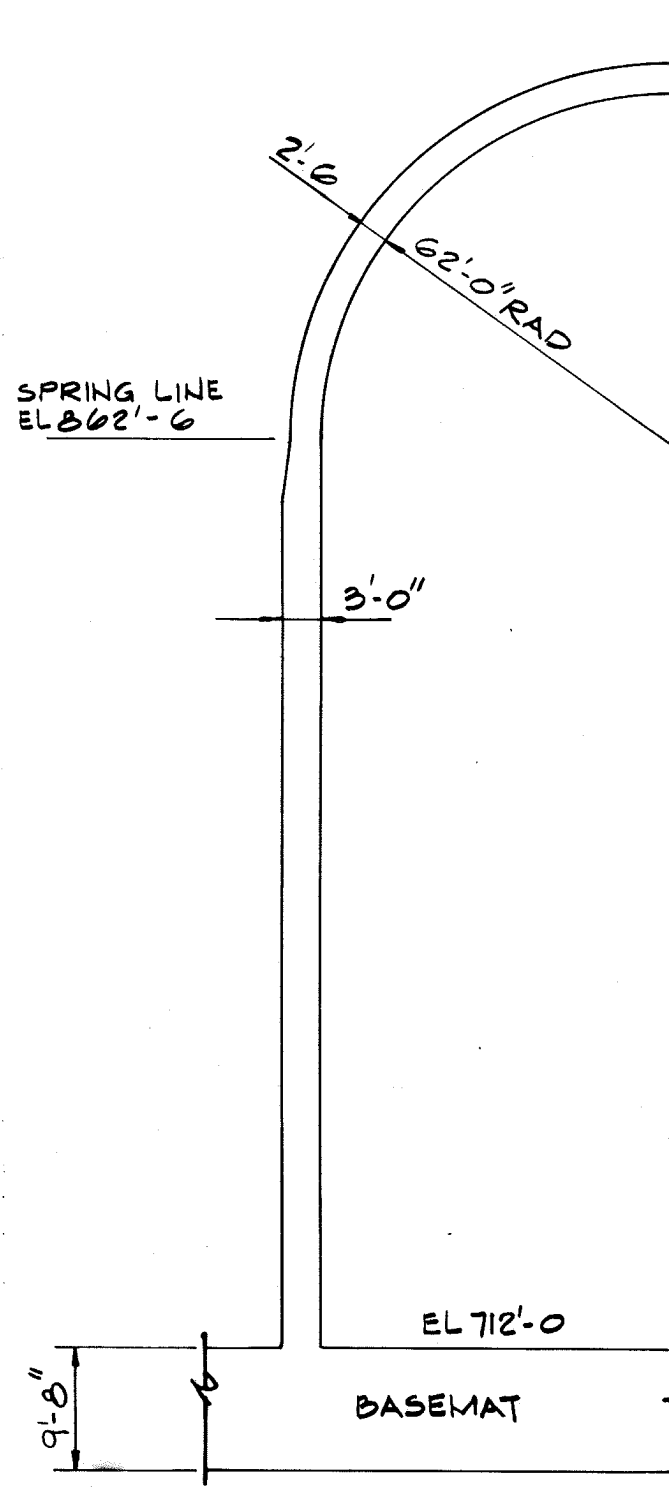


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UPDATED SAFETY ANALYSIS REPORT

FIGURE A3.8-46

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

FIGURE A3.8-47
HAS BEEN DELETED



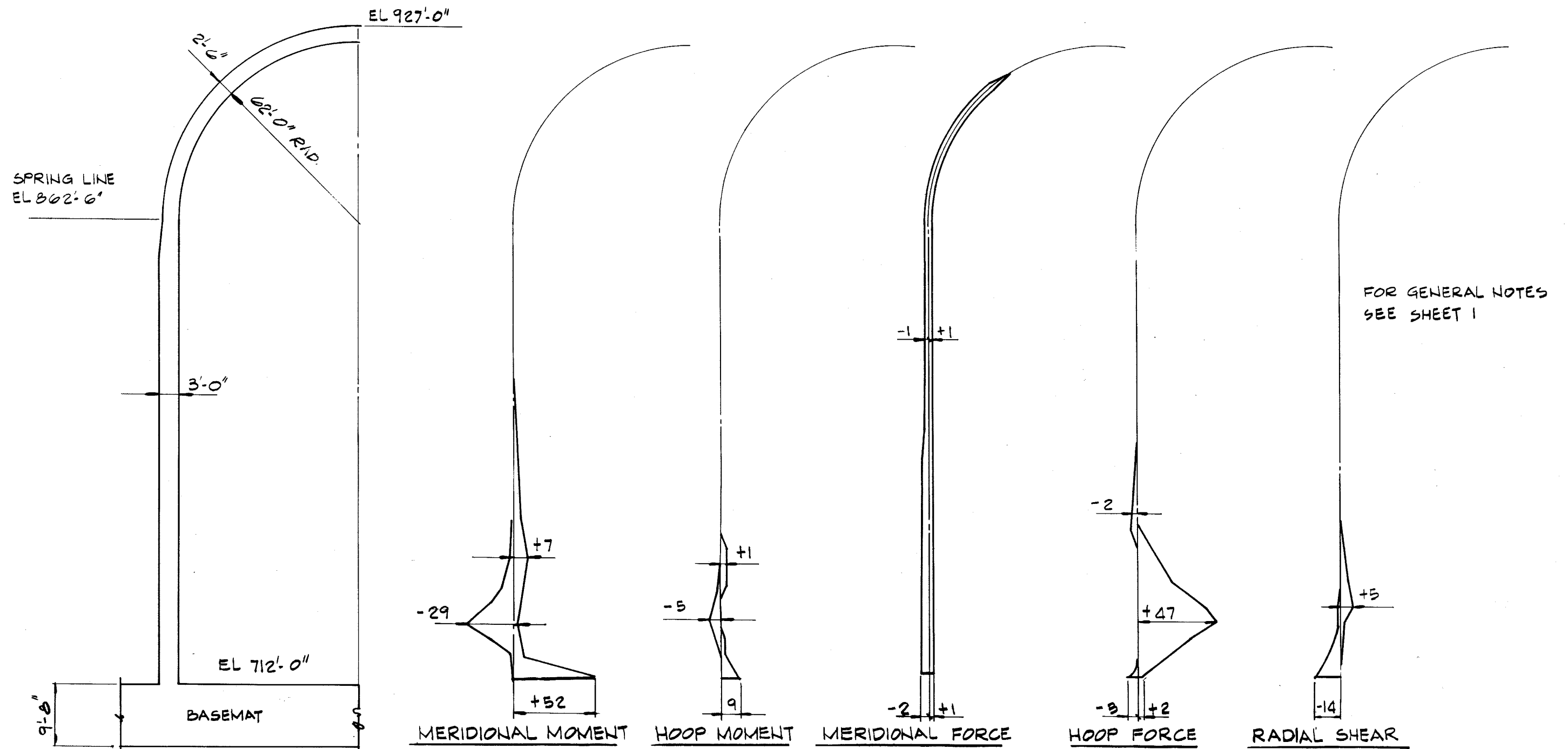
CONTAINMENT
GENERAL NOTES
FOR FORCE PLOTS

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

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE B3.8-1

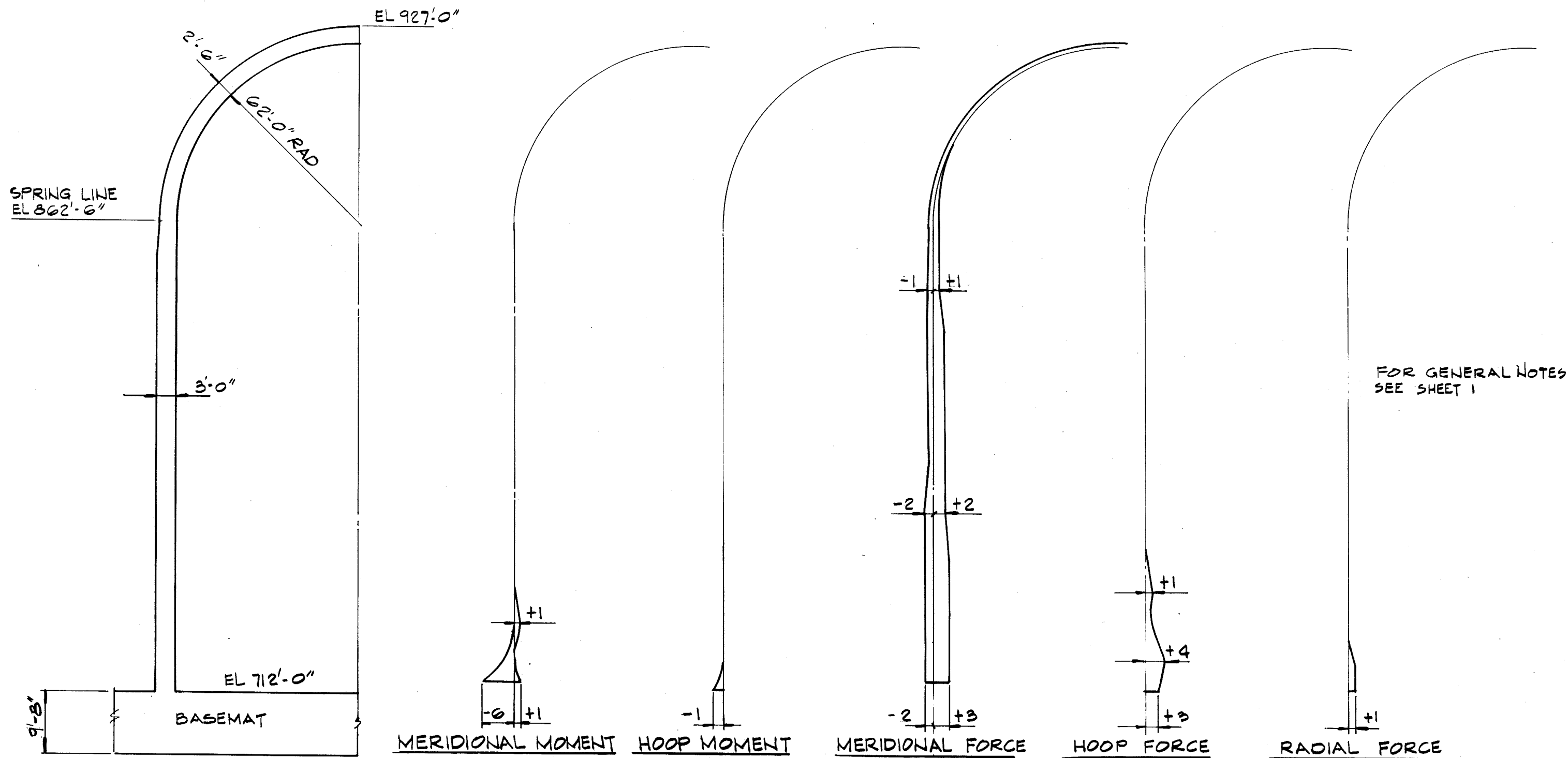
FORCE PLOTS CONTAINMENT
WALL SRV - ALL VALVE



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UPDATED SAFETY ANALYSIS REPORT

FIGURE B3.8-2

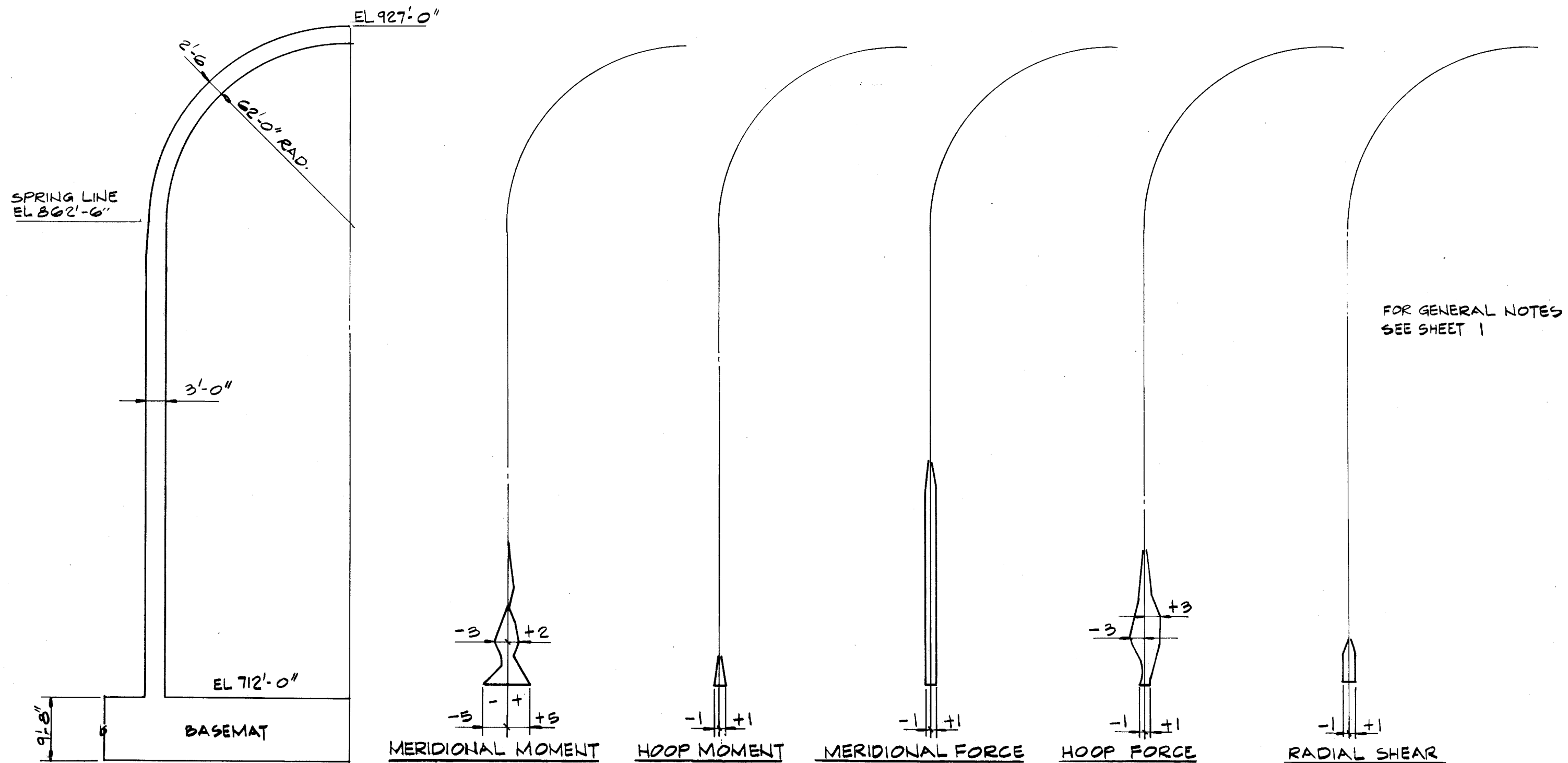
FORCE PLOTS CONTAINMENT
WALL - LOCA BUBBLE



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UPDATED SAFETY ANALYSIS REPORT

FIGURE B3.8-3

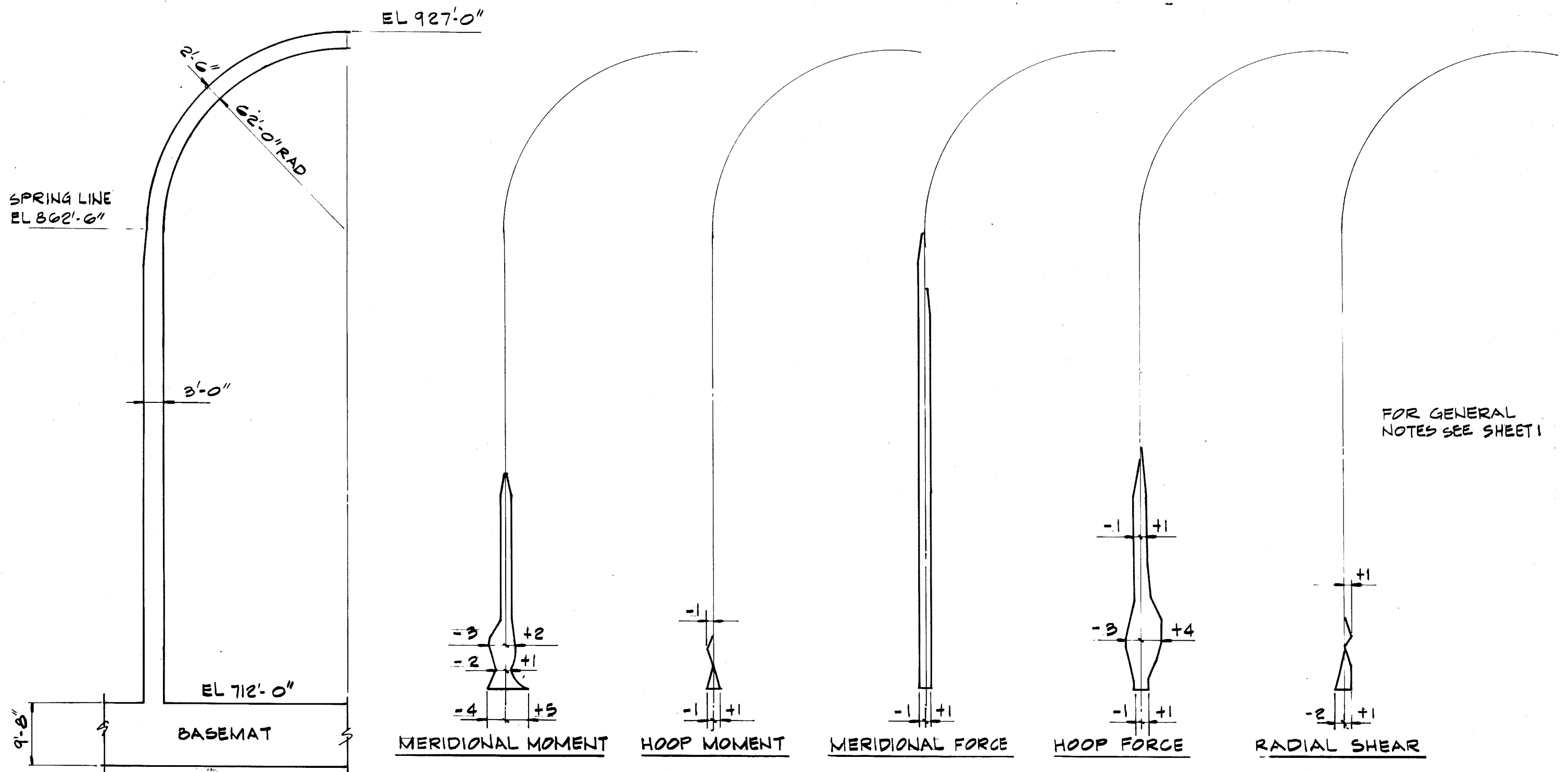
FORCE PLOTS CONTAINMENT
WALL - LOCA - FROTH IMPINGEMENT



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UPDATED SAFETY ANALYSIS REPORT

FIGURE B3.8-4

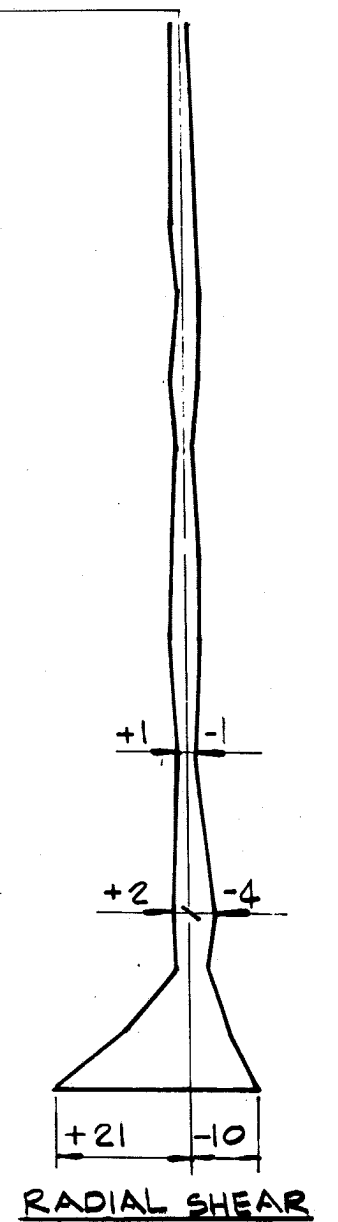
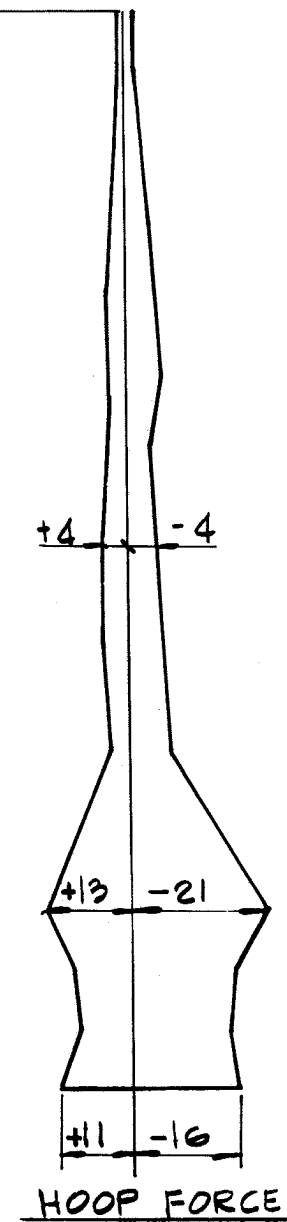
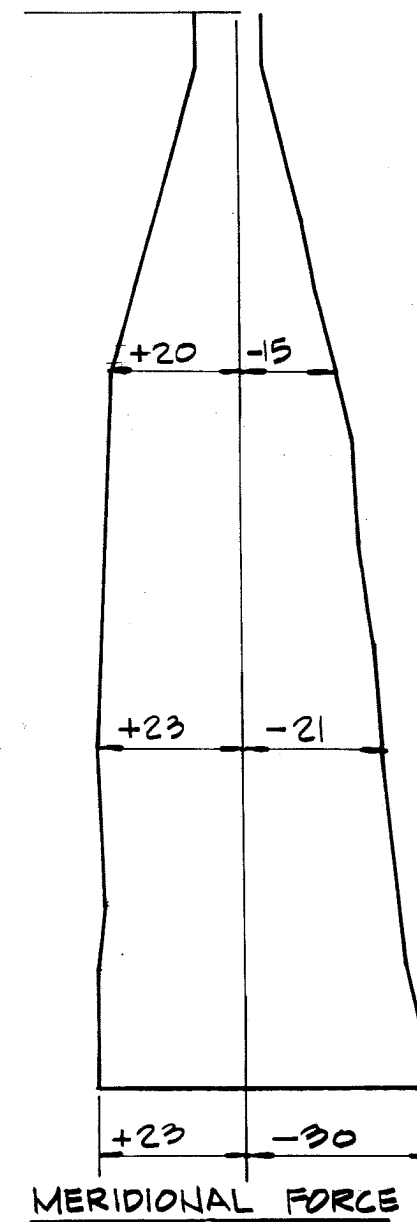
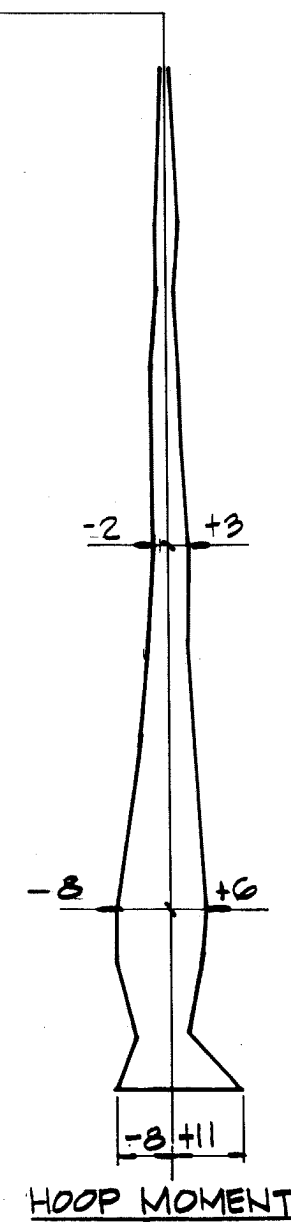
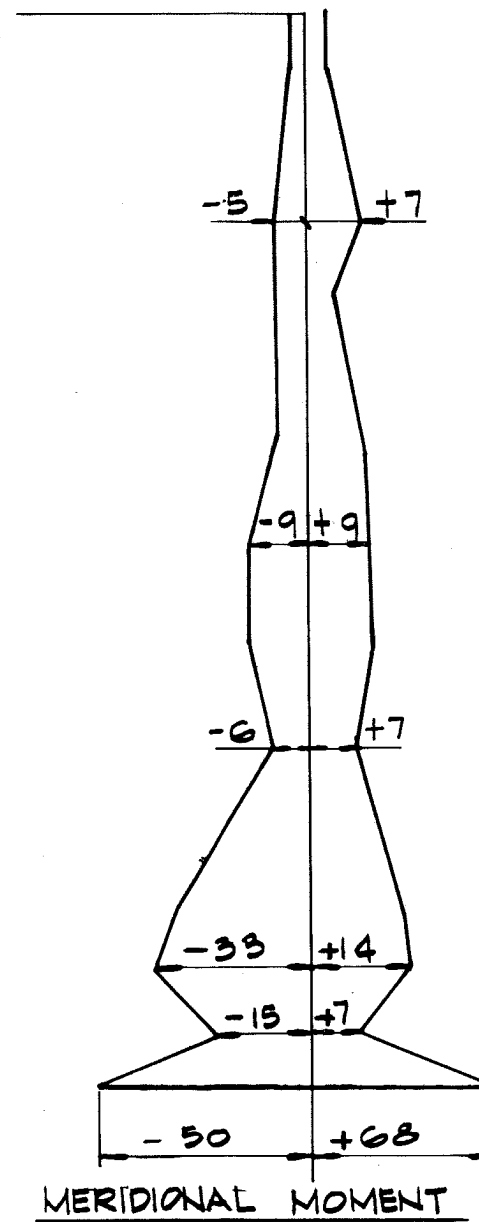
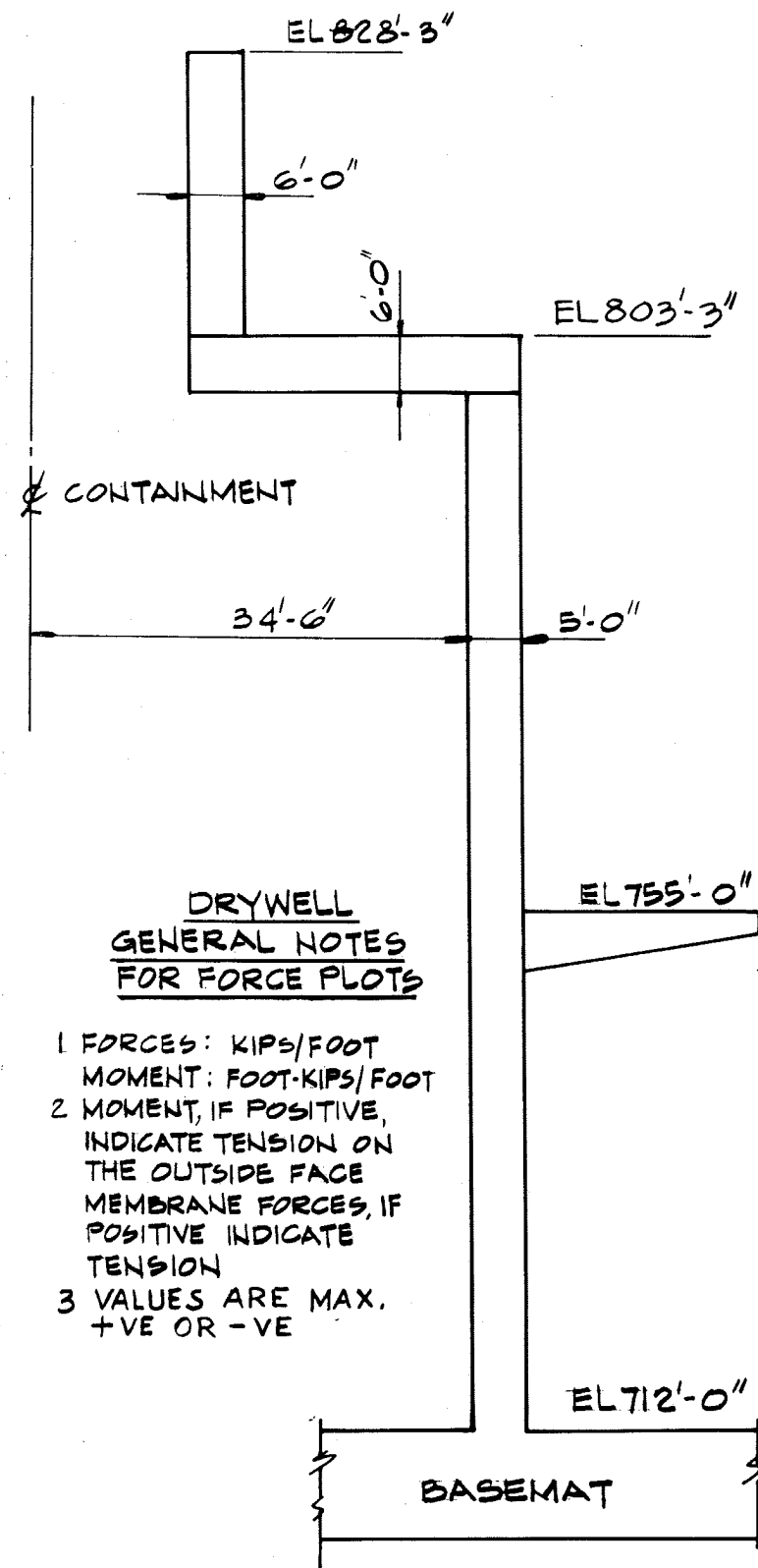
FORCE PLOTS CONTAINMENT WALL -
LOCA - CONDENSATION OSCILLATION



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UPDATED SAFETY ANALYSIS REPORT

FIGURE B3.8-5

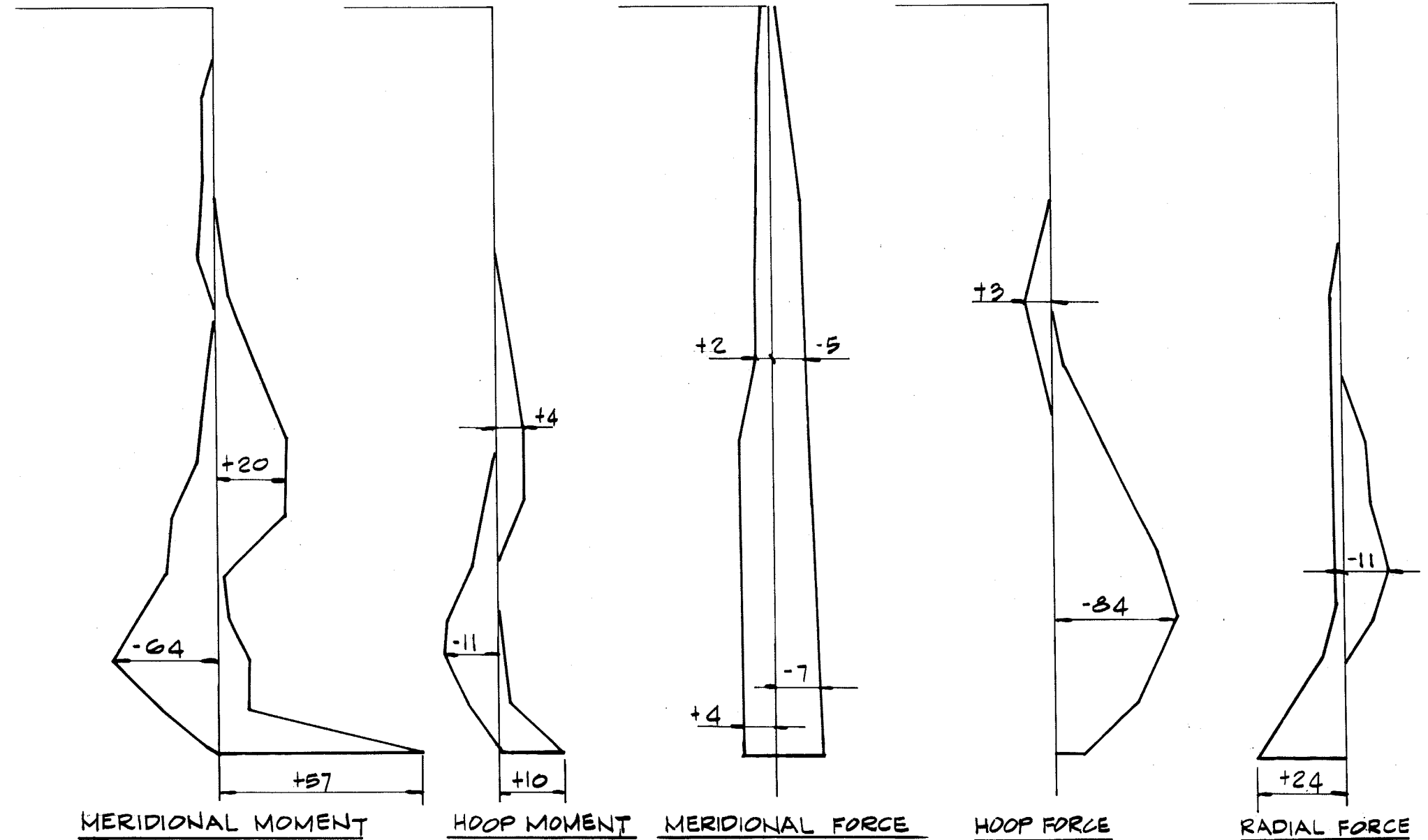
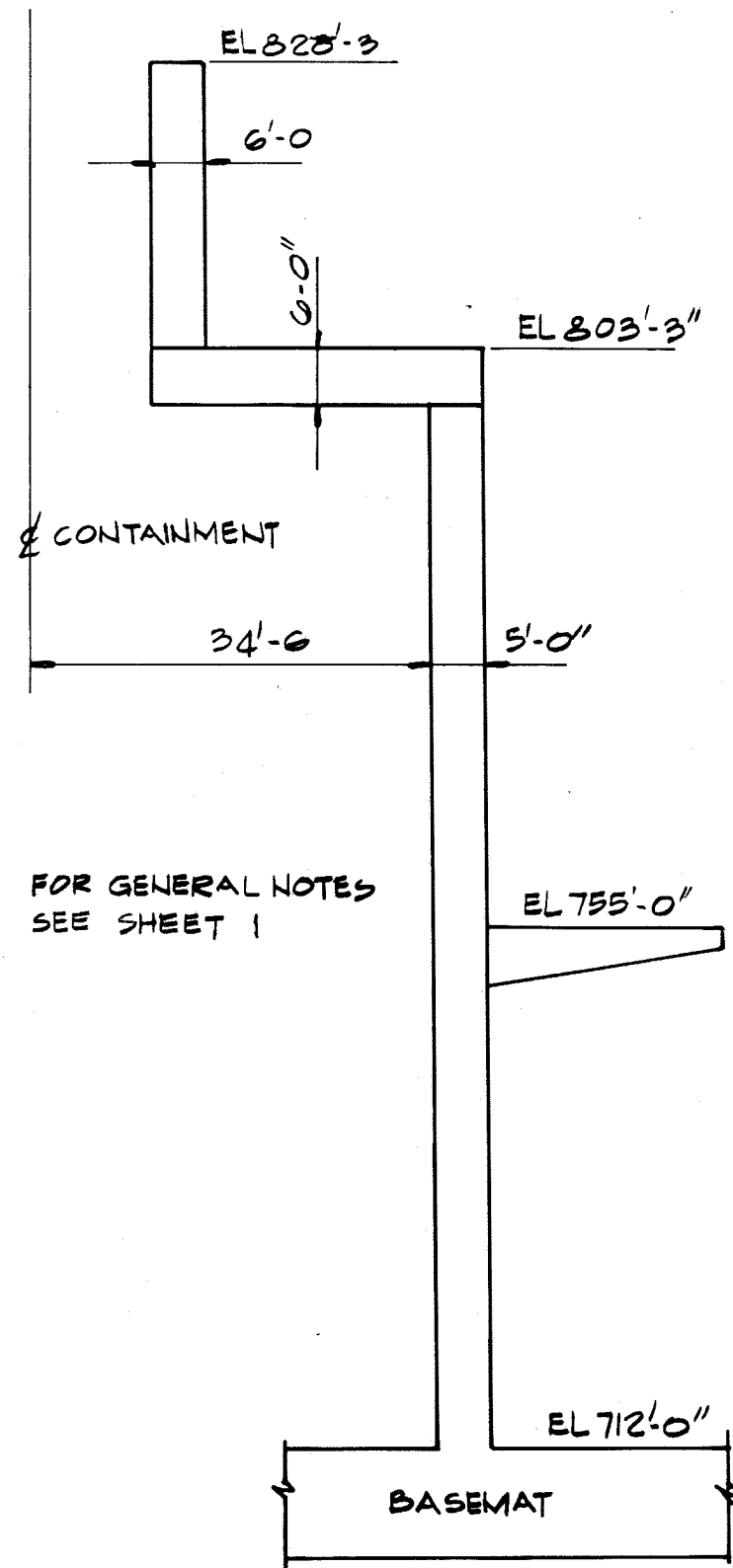
FORCE PLOTS CONTAINMENT
WALL - LOCA CHUGGING



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UPDATED SAFETY ANALYSIS REPORT

FIGURE B3.8-6

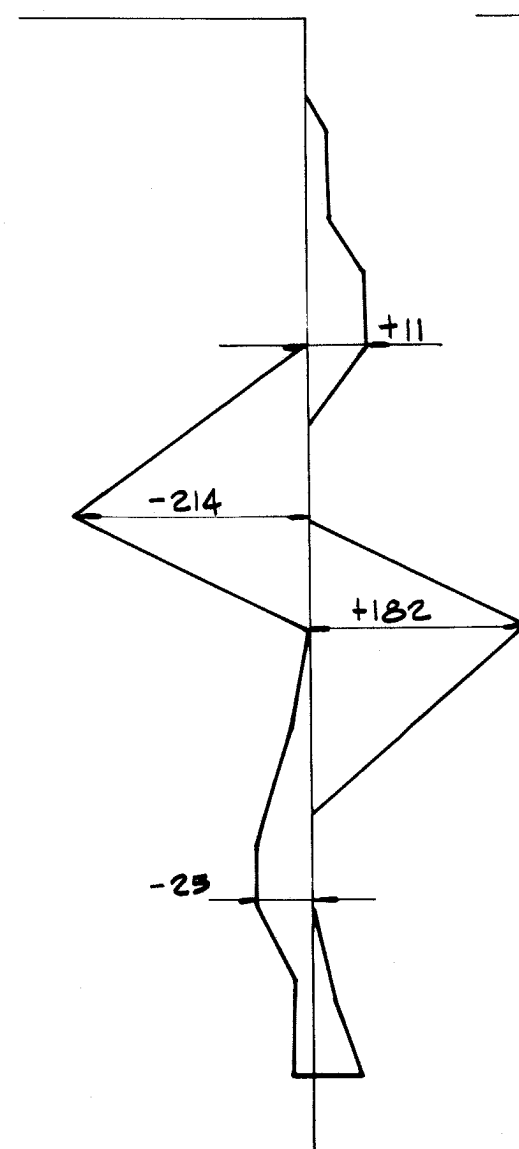
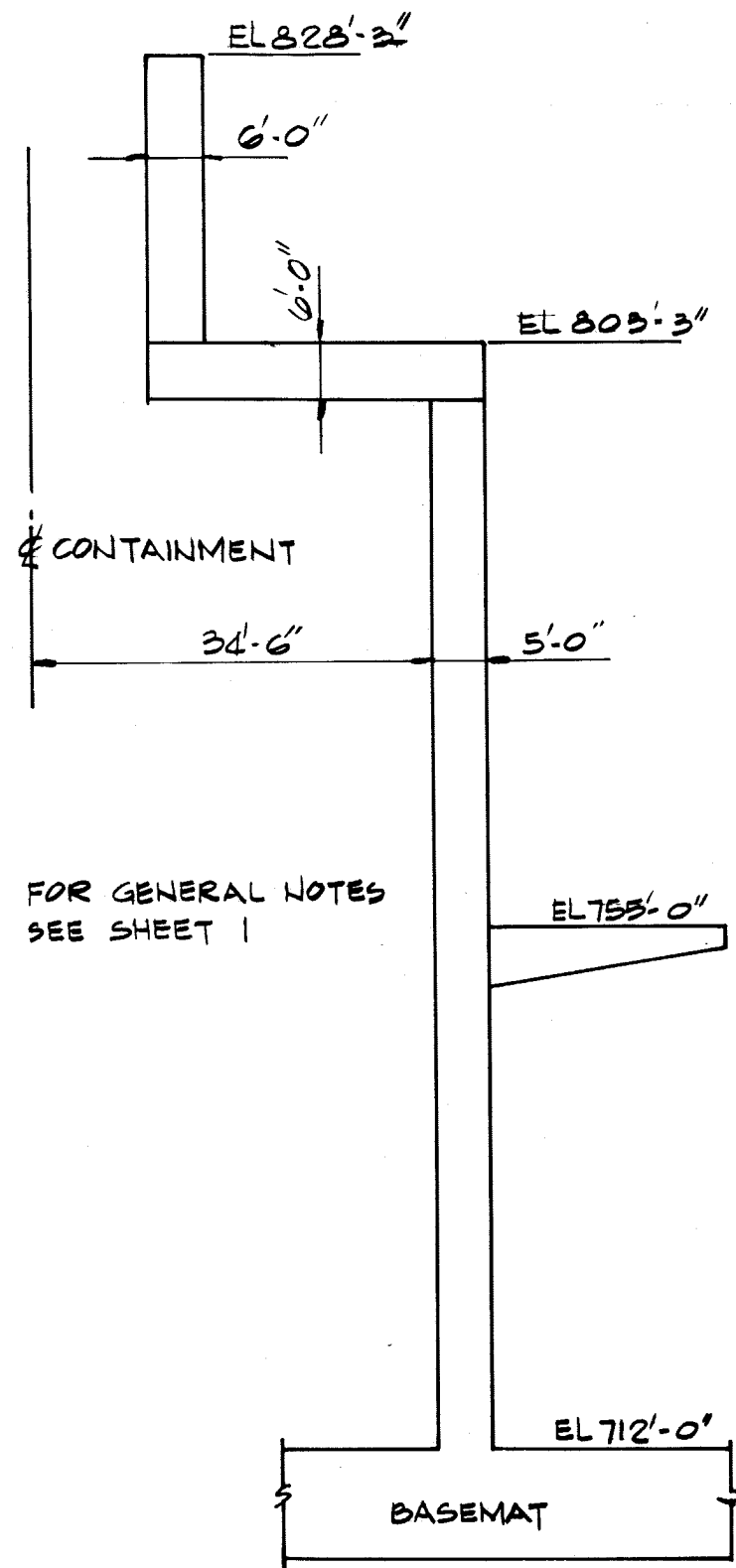
FORCE PLOTS DRYWELL SRV -
ALL VALVE



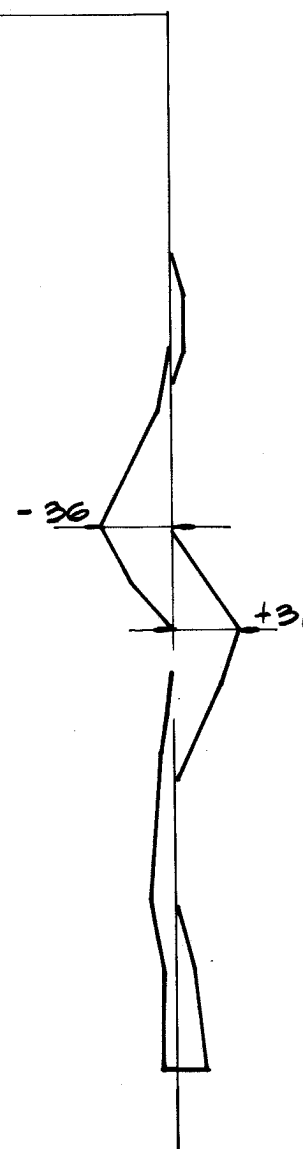
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FIGURE B3.8-7

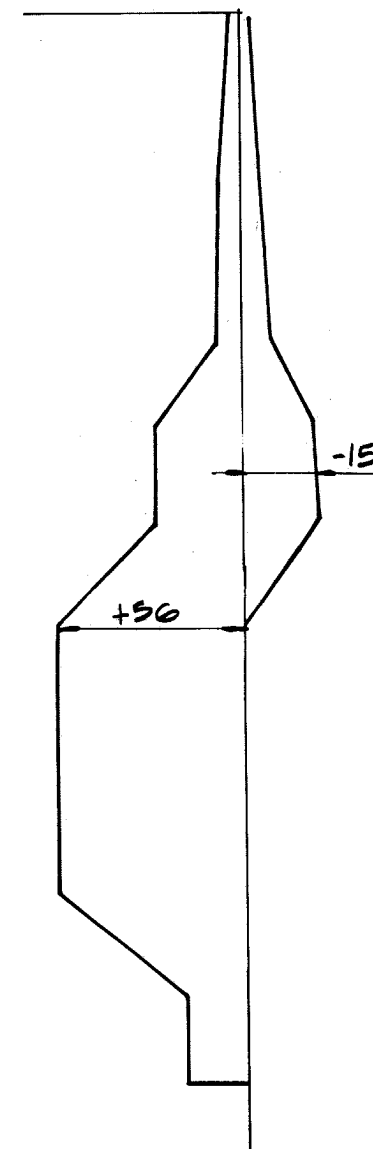
FORCE PLOTS DRYWELL LOCA BUBBLE



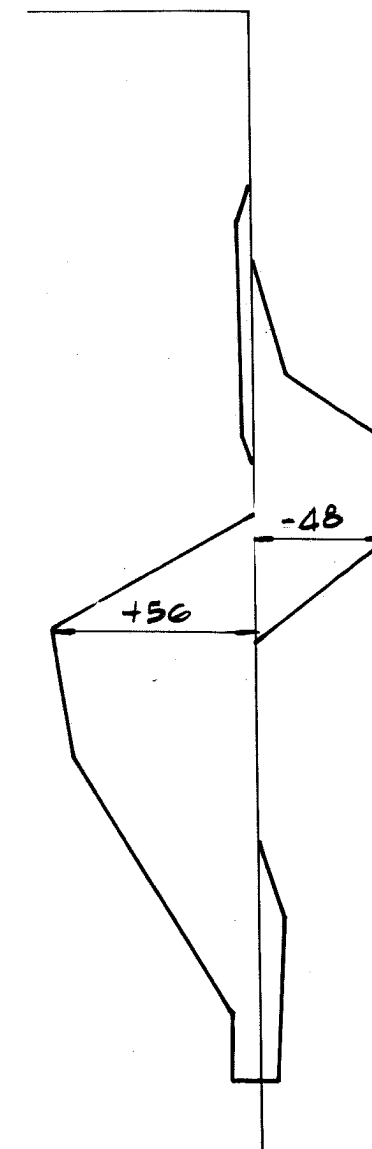
MERIDIONAL MOMENT



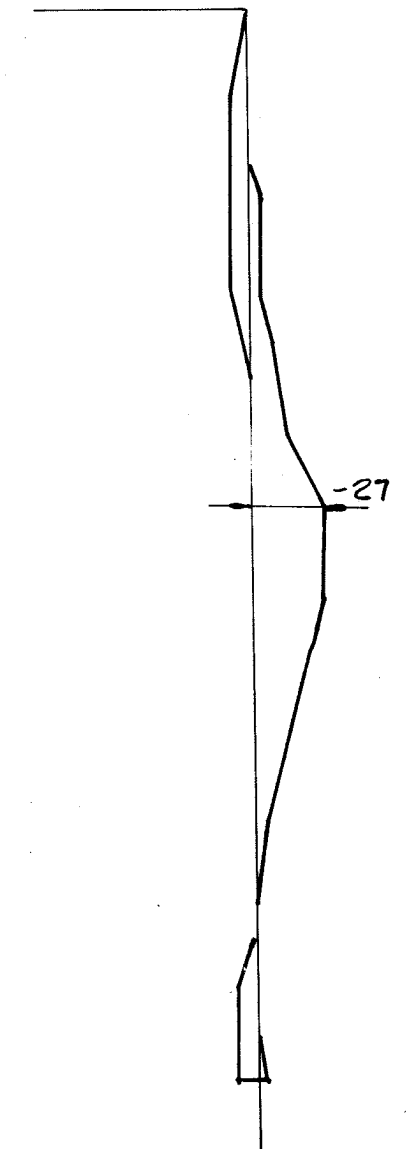
HOOP MOMENT



MERIDIONAL FORCE



HOOP FORCE

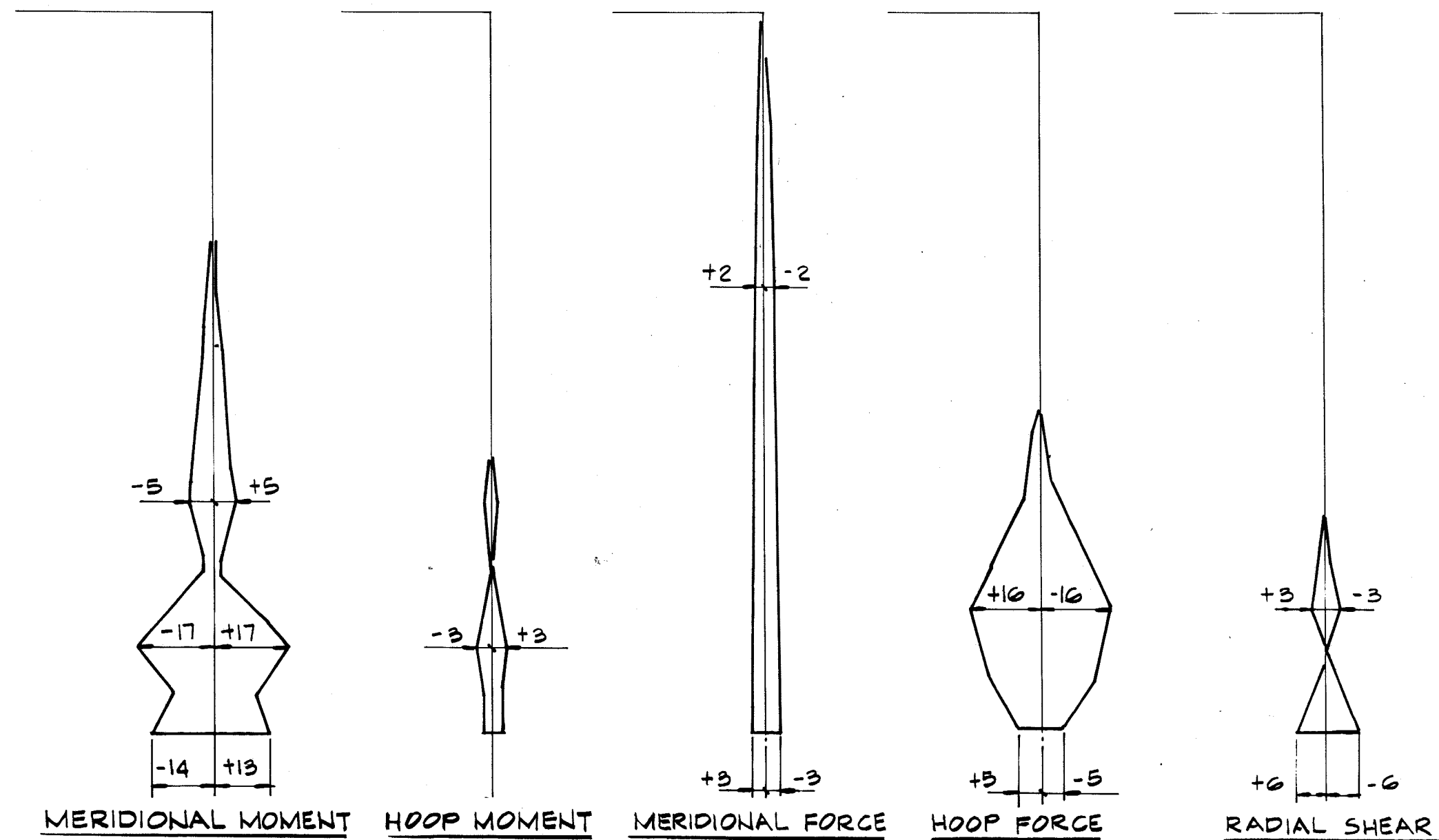
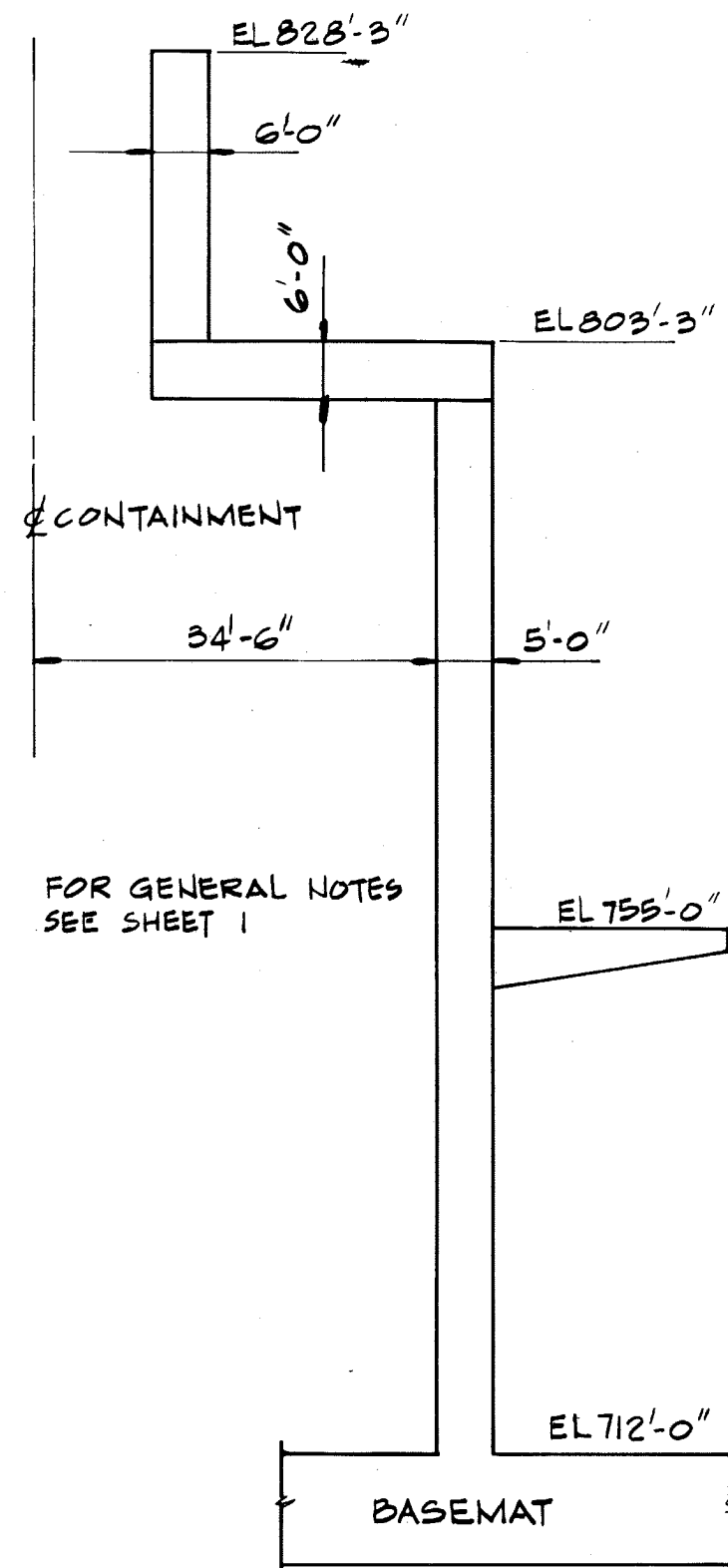


RADIAL SHEAR

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UPDATED SAFETY ANALYSIS REPORT

FIGURE B3.8-8

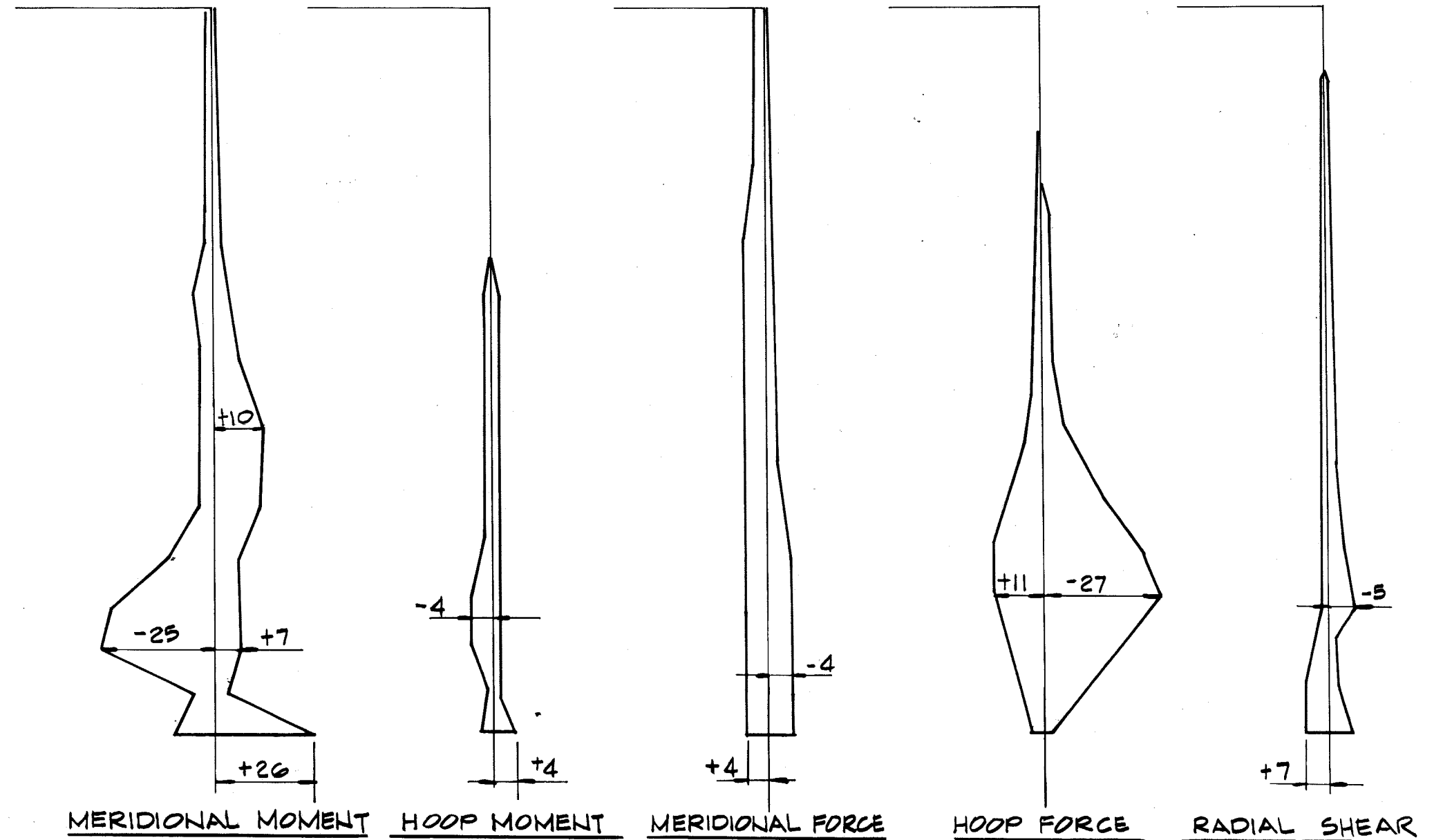
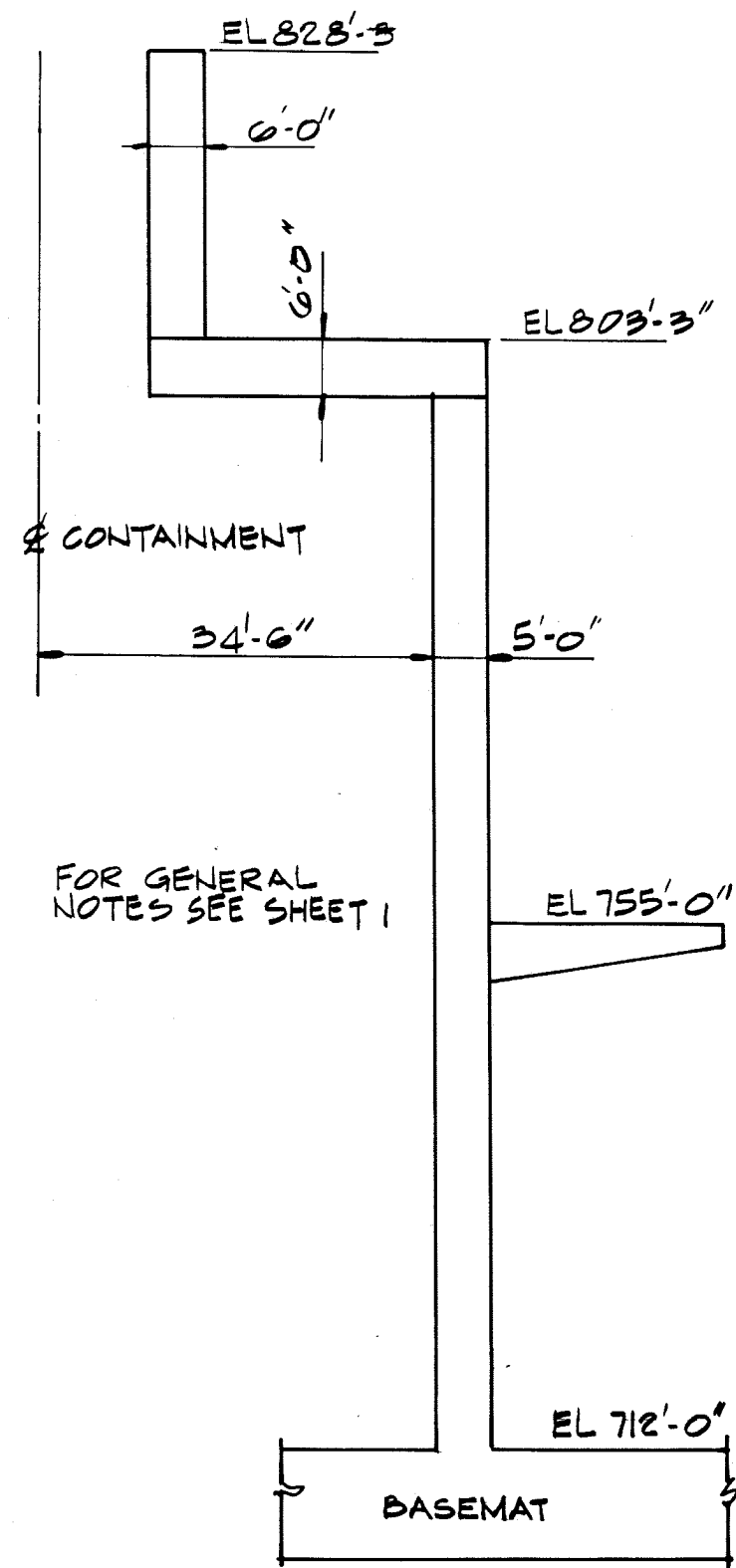
FORCE PLOTS DRYWELL LOCA -
FROTH IMPINGEMENT



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

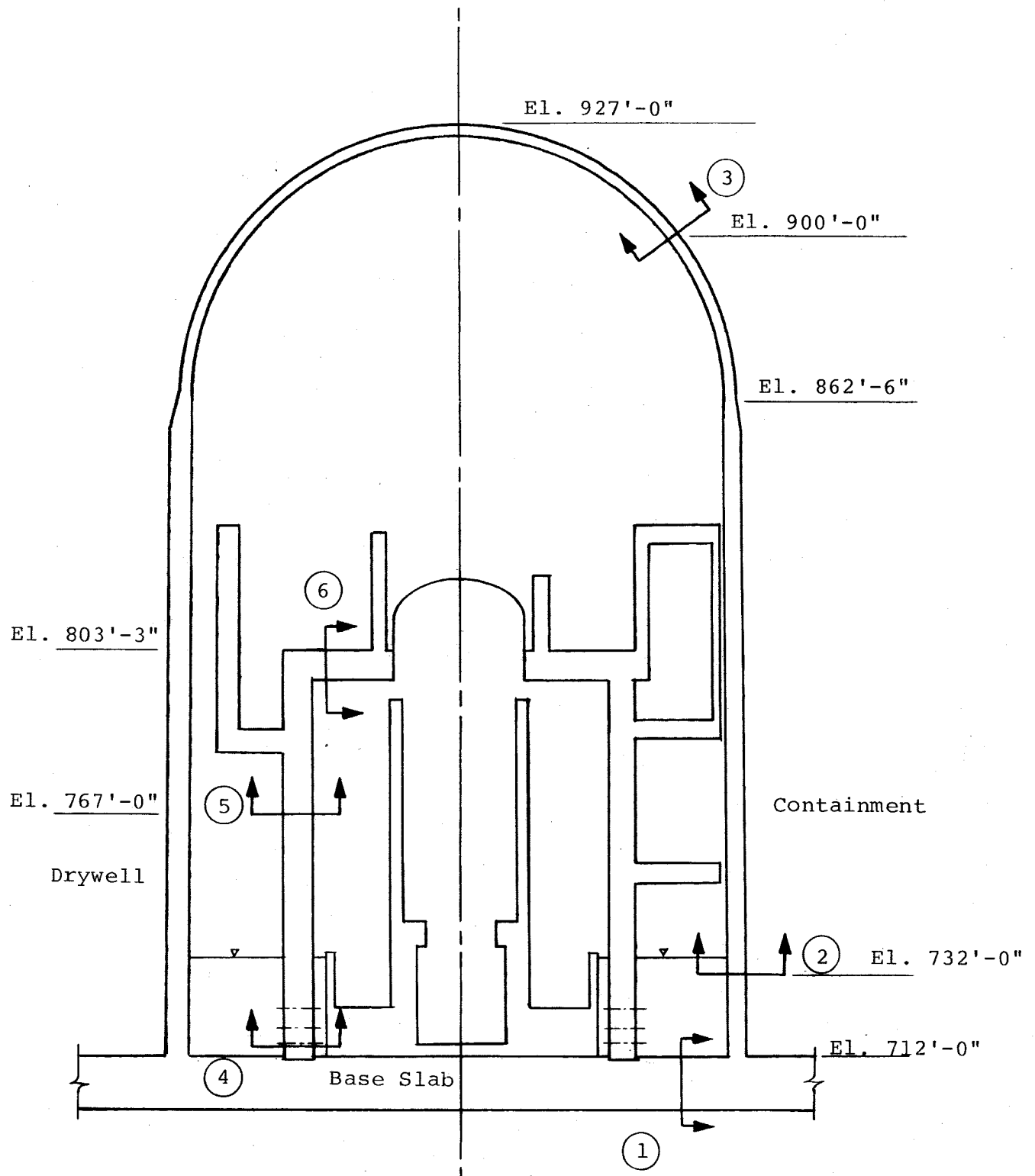
FIGURE B3.8-9

FORCE PLOTS DRYWELL LOCA -
CONDENSATION OSCILLATION



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

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



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UPDATED SAFETY ANALYSIS REPORT

FIGURE B3.8-11

LOCATION OF DESIGN
ASSESSMENT SECTIONS

FIGURES 3.9-1 THROUGH 3.9-5
HAVE BEEN DELETED

CPS-USAR

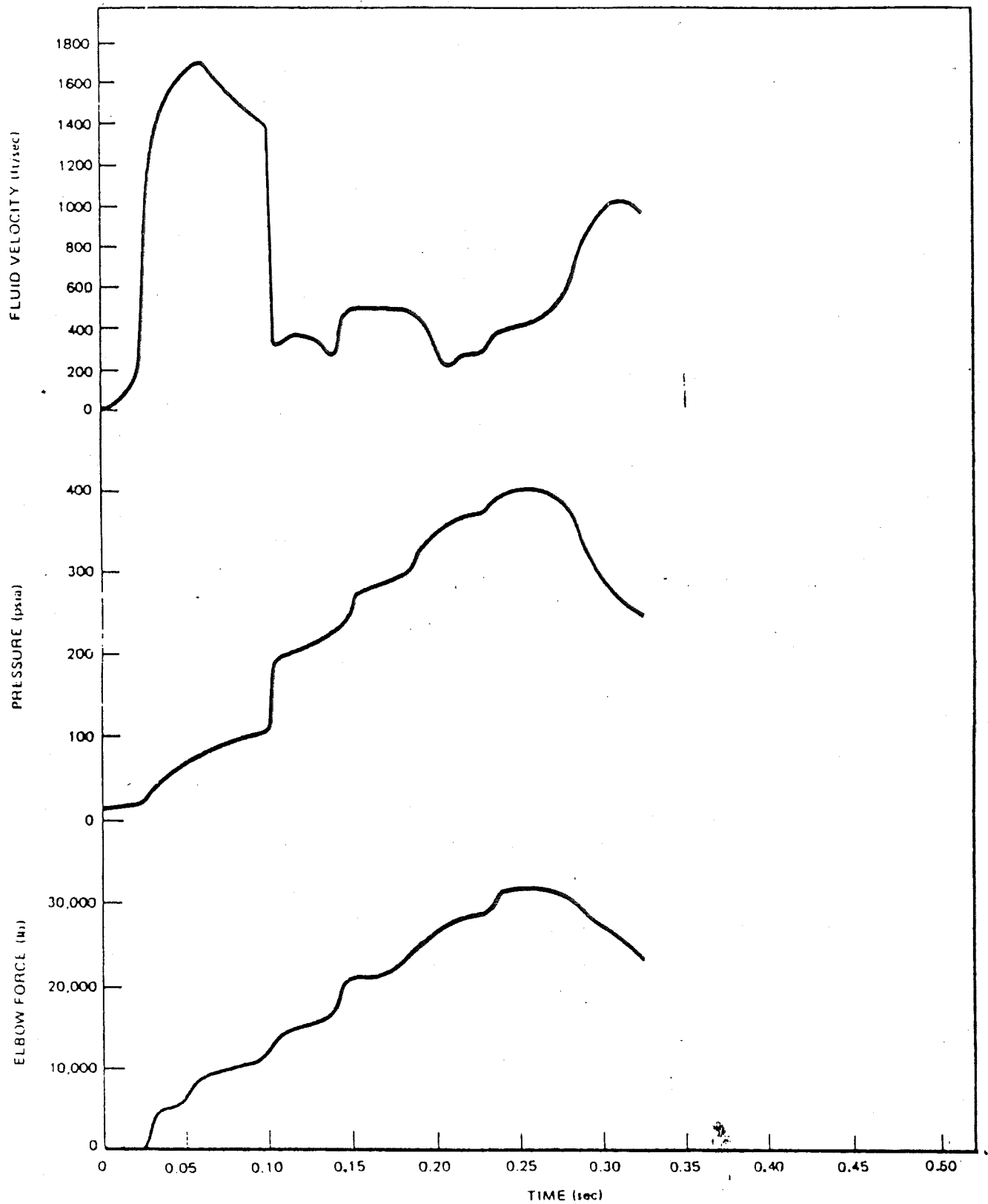


Figure 3.9-6. Typical Relief Valve Transient

CPS-USAR

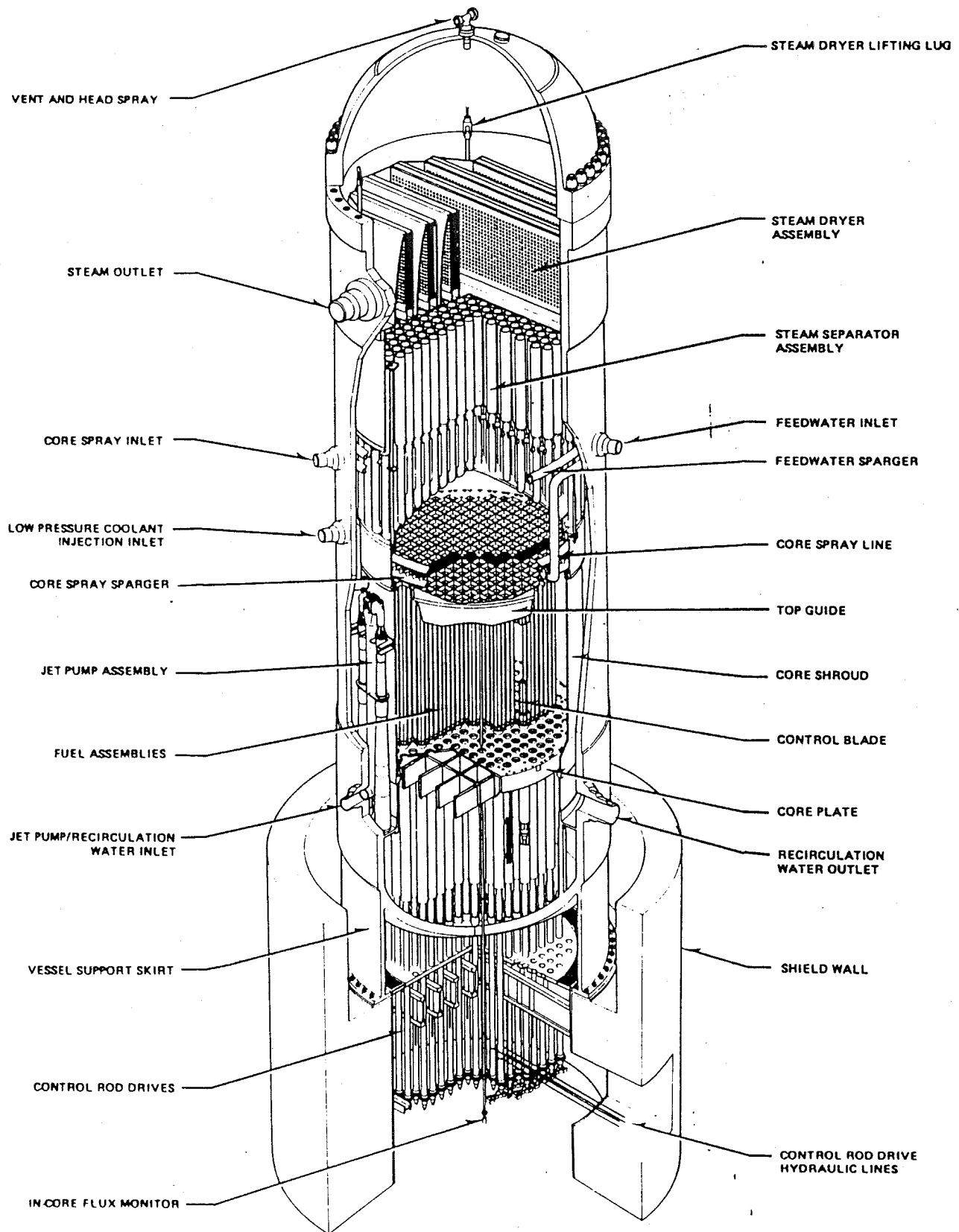


Figure 3.9-7. Reactor Vessel Cutaway

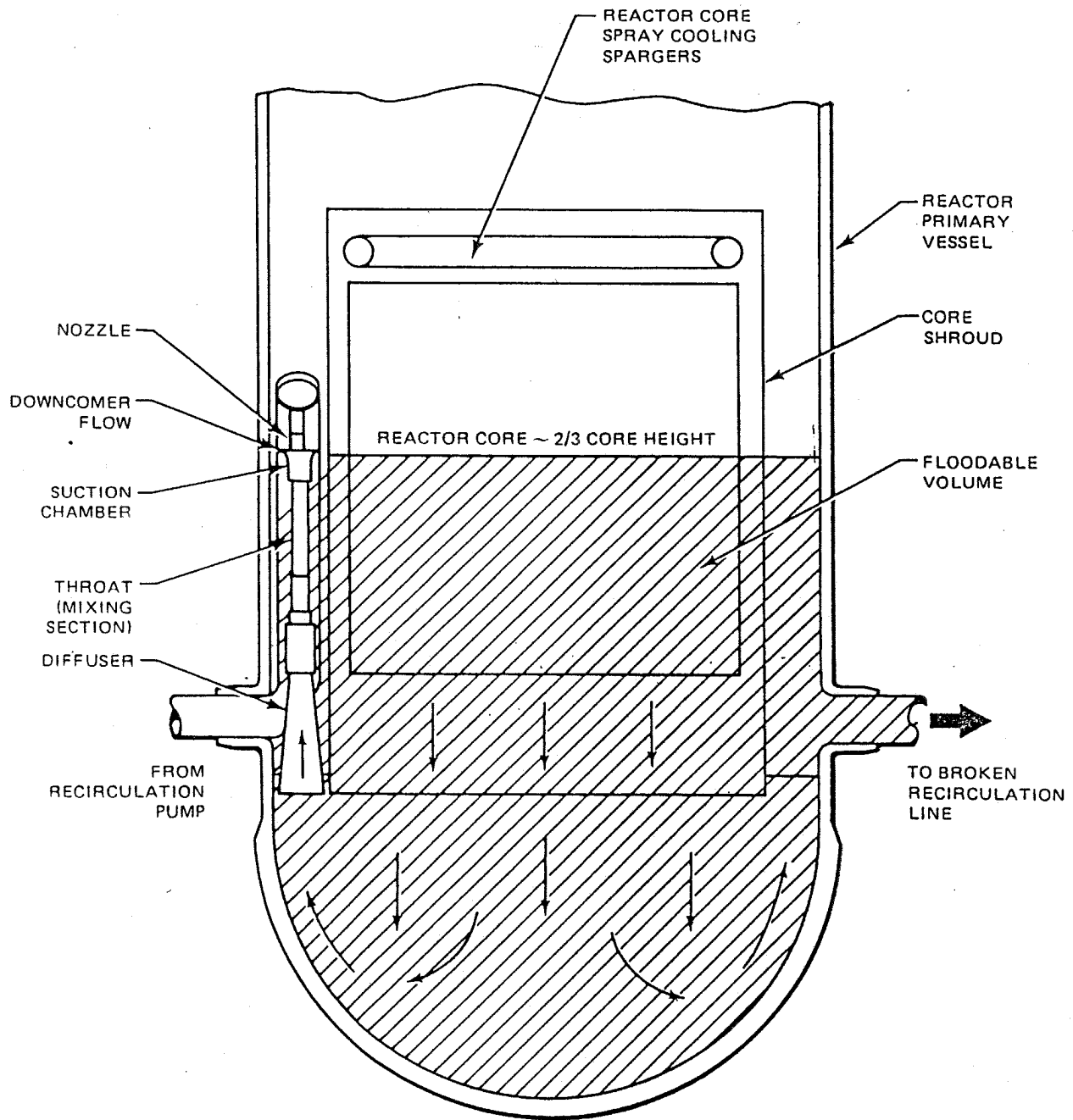


Figure 3.9-8 REACTOR INTERNALS FLOW PATHS

CPS-USAR

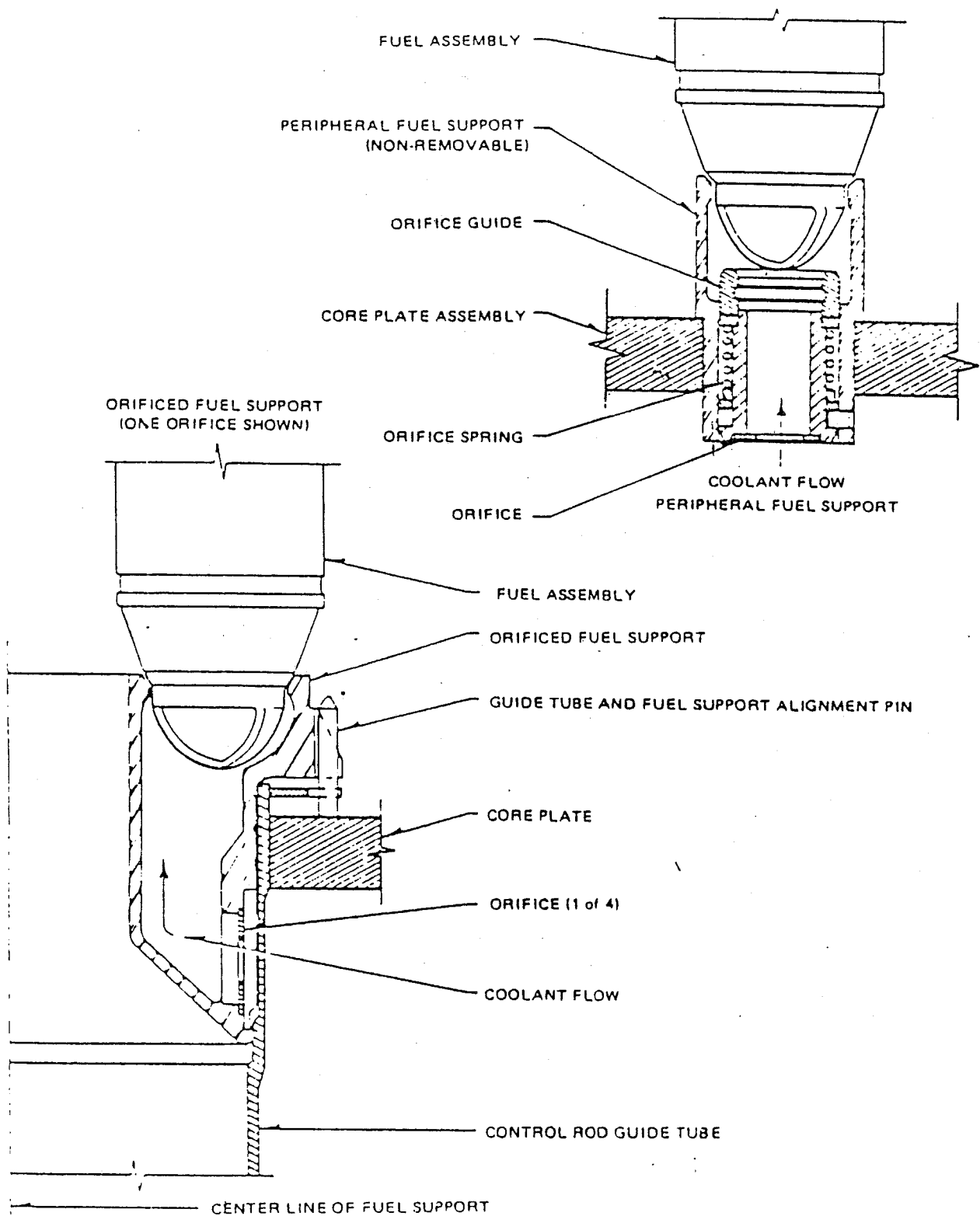


Figure 3.9-9. Fuel Support Pieces

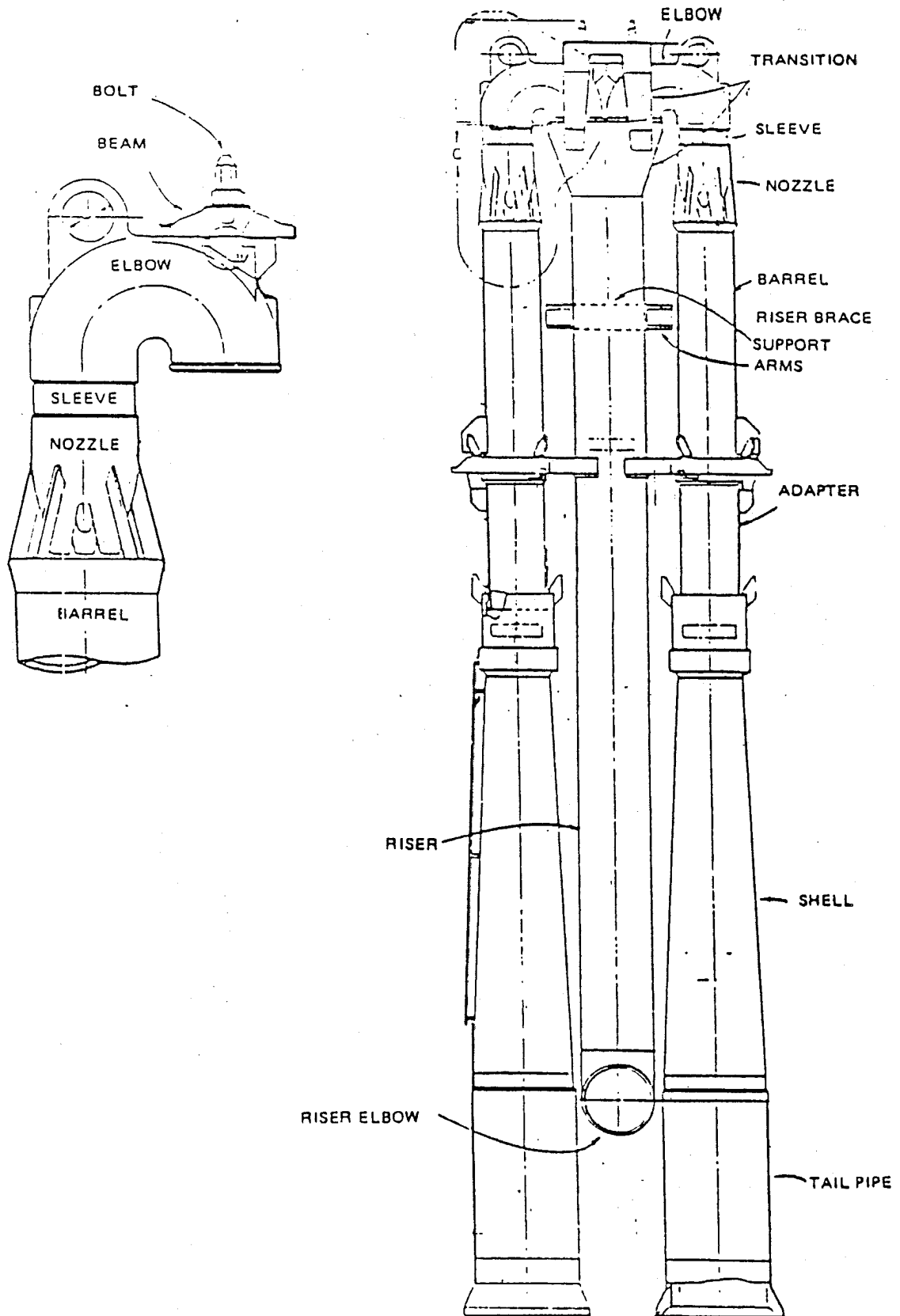


Figure 3.9-10. Jet Pump

CPS-USAR

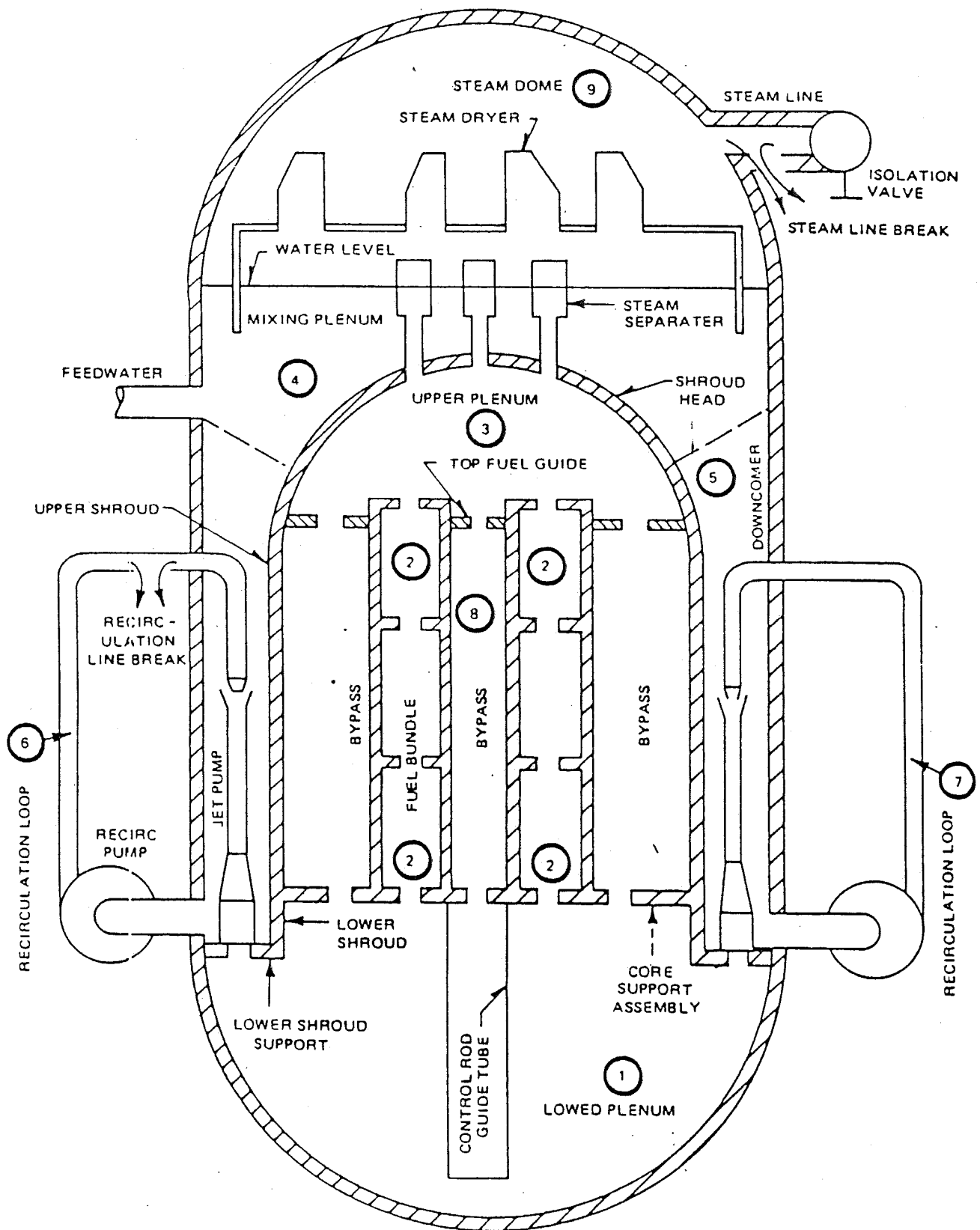
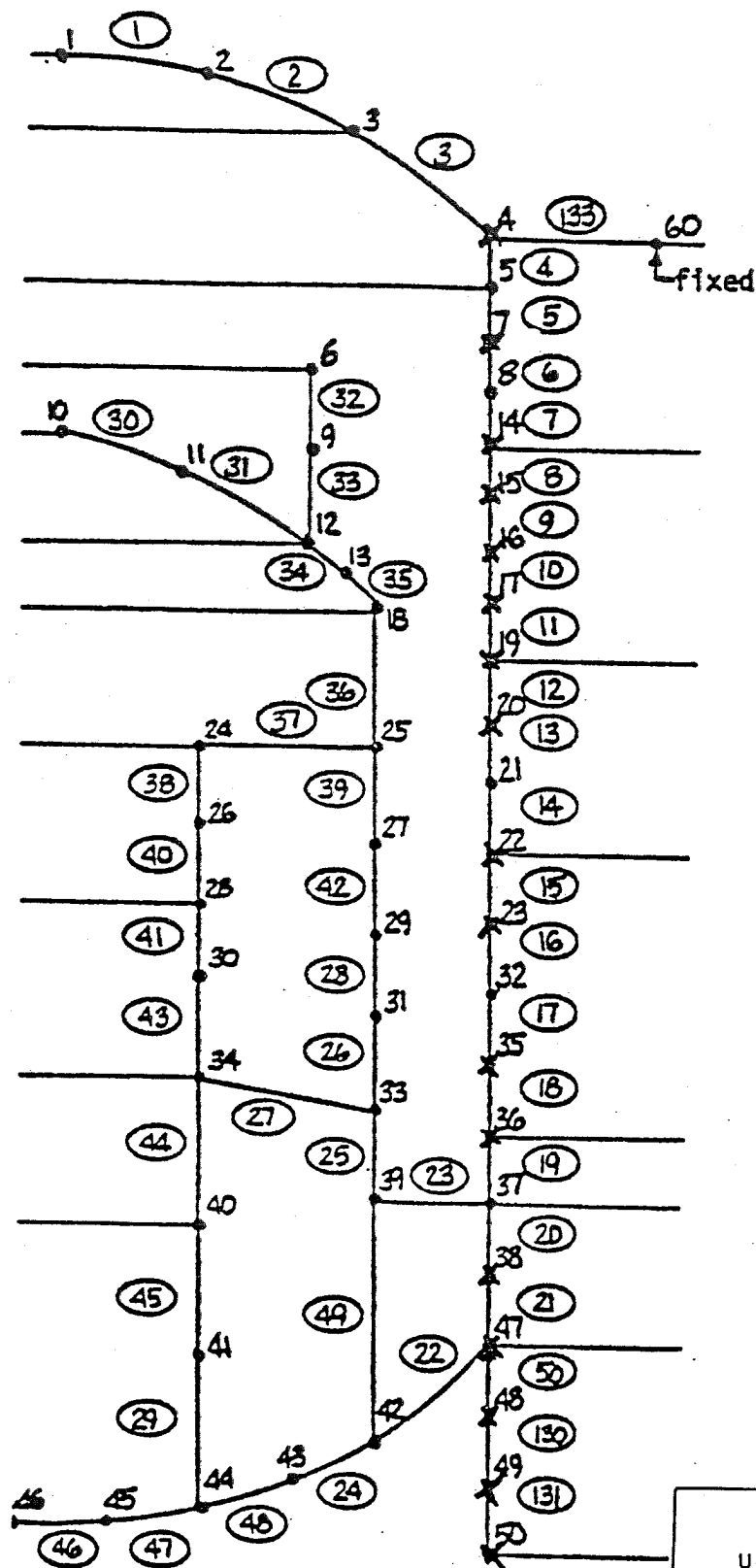


Figure 3.9-11. Pressure Nodes Used for Depressurization Analysis

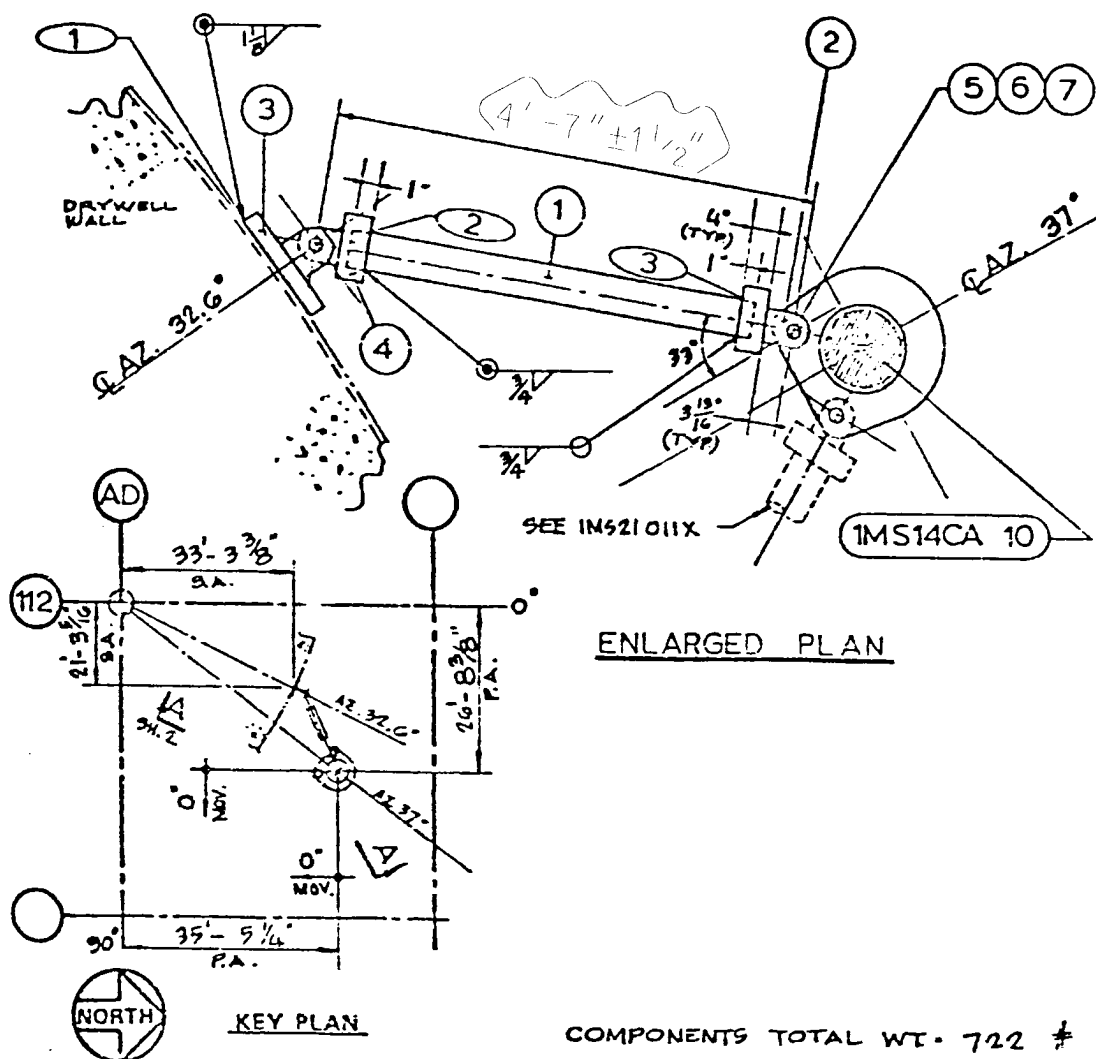


LEGEND	
	SHELL ELEMENT
	MASS POINT

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UPDATED SAFETY ANALYSIS REPORT

FIGURE 3.9-12

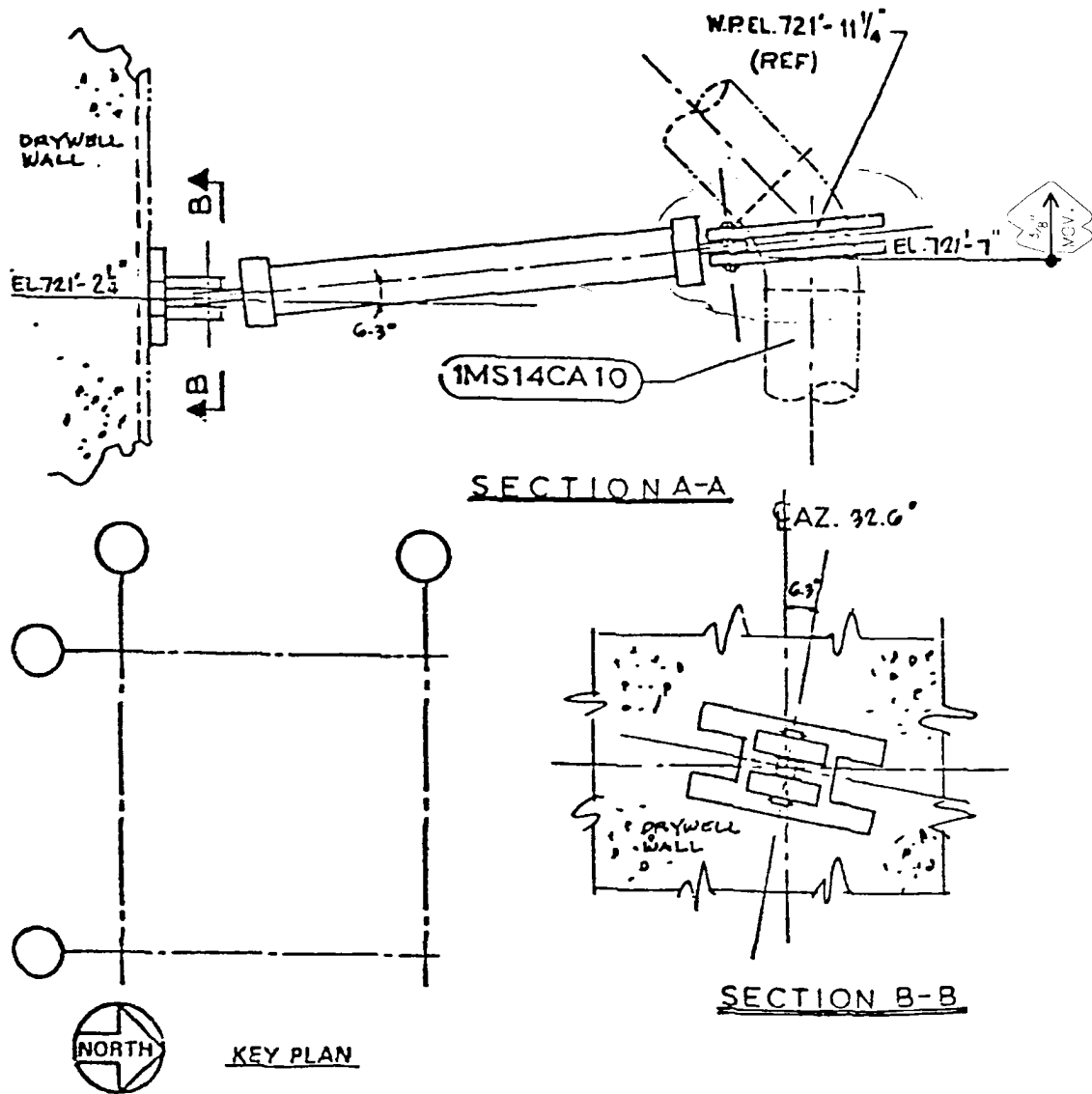
Q & R MEB (DSER) 67B
REACTOR PRESSURE VESSELS AND
INTERNALS HORIZONTAL SHELL MATH
MODEL



CLINTON POWER STATION UPDATED SAFETY ANALYSIS REPORT

Figure 3.9-13
(Q & R 210.01)

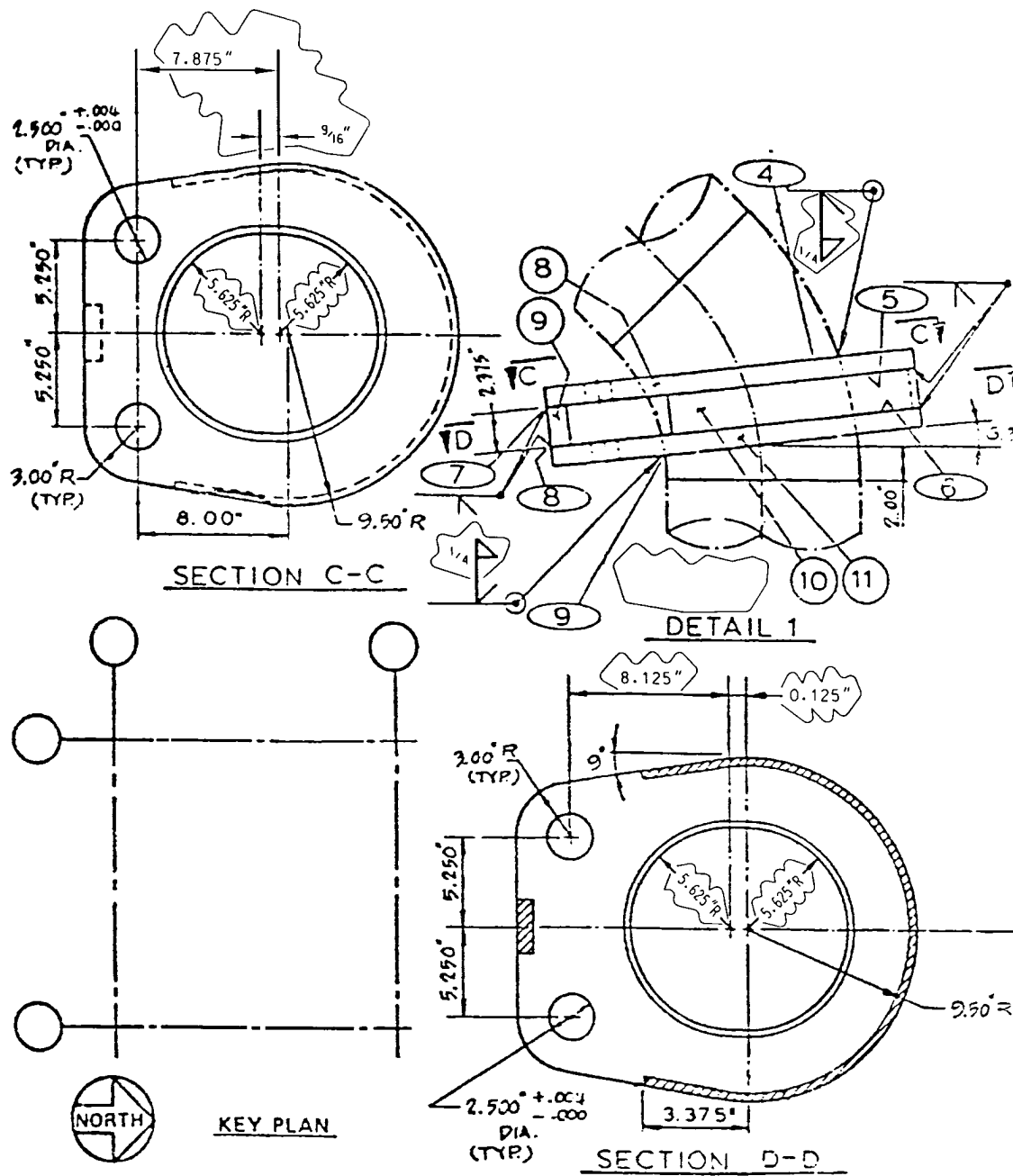
SRV DISCHARGE LINE SUPPORT
WELDED ATTACHMENT DETAIL
SHEET 1 OF 4



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

Figure 3.9-13
(Q & R 210.01)

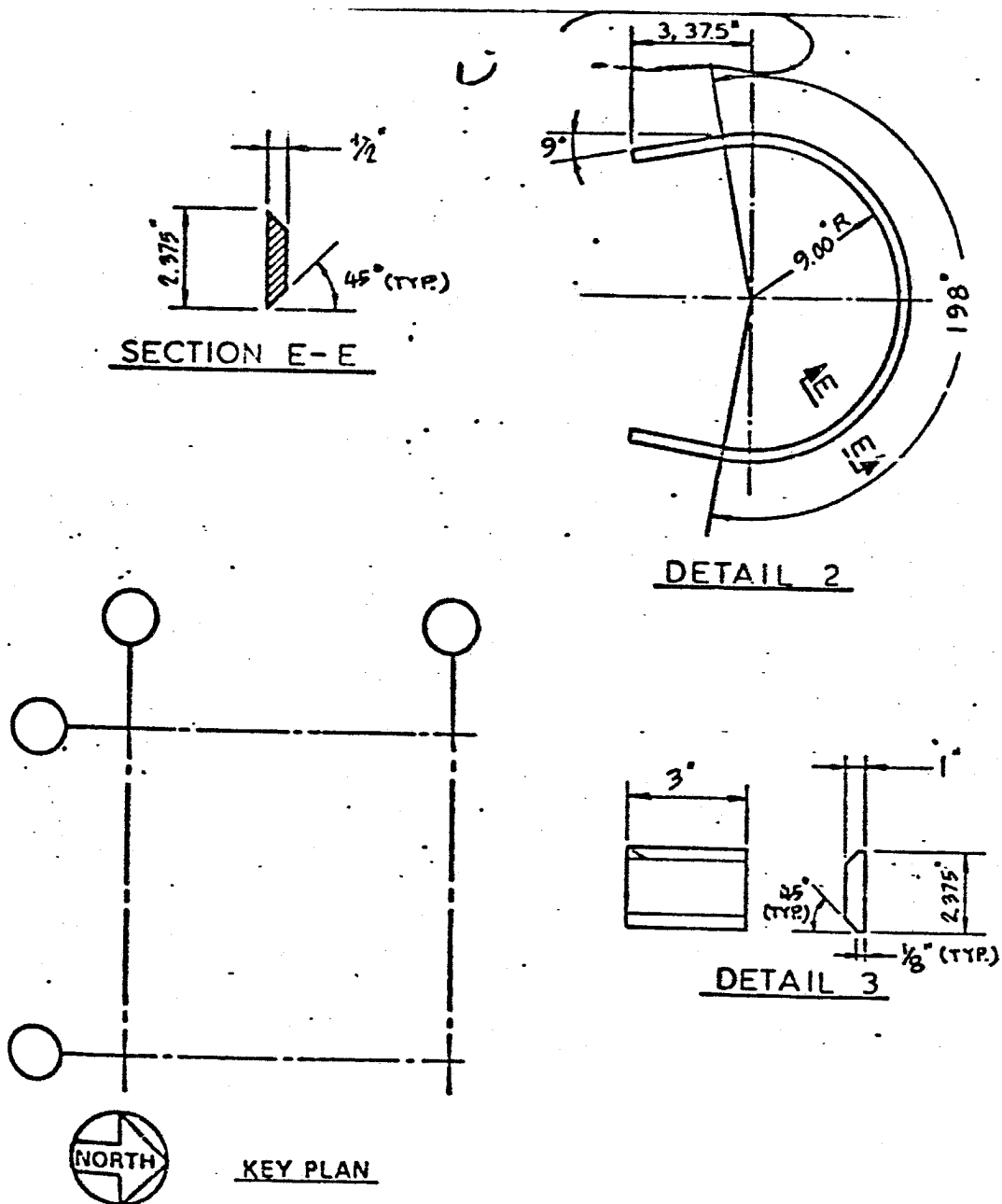
SRV DISCHARGE LINE SUPPORT
WELDED ATTACHMENT DETAIL
SHEET 2 OF 4



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

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

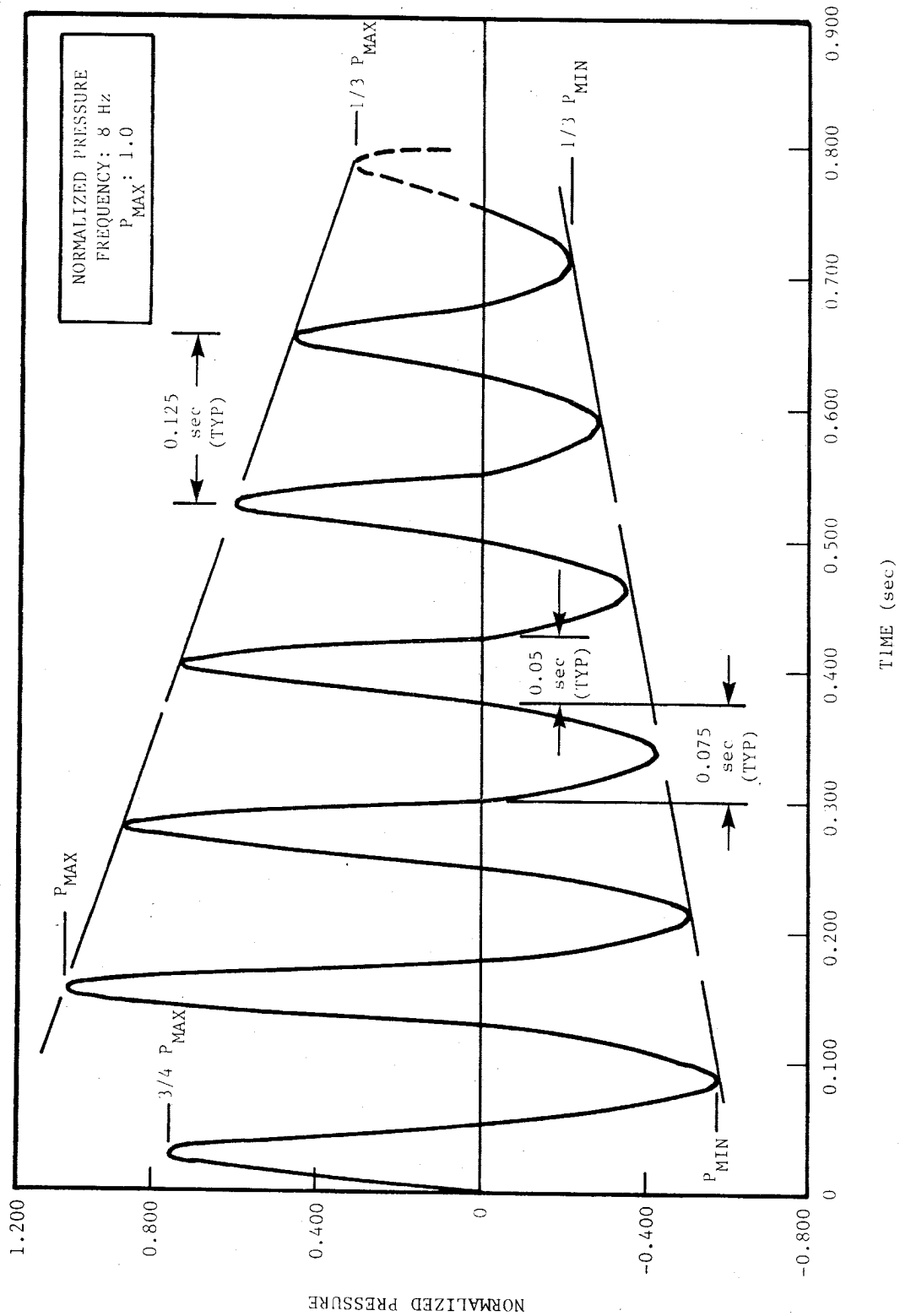
SHEET 3 OF 4



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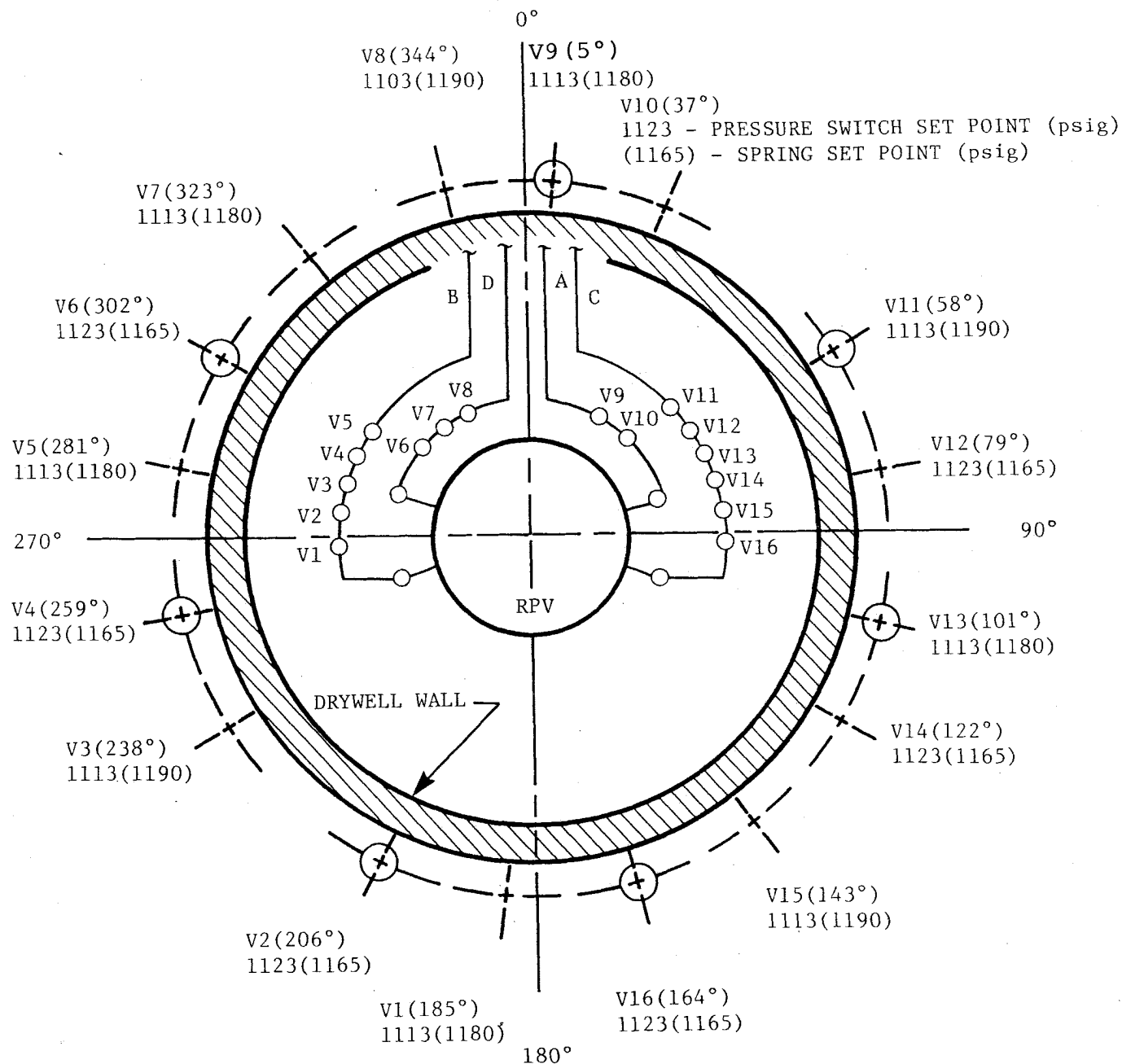
Figure 3.9-13
(Q & R 210.01)

SRV DISCHARGE LINE SUPPORT
WELDED ATTACHMENT DETAIL
SHEET 4 OF 4



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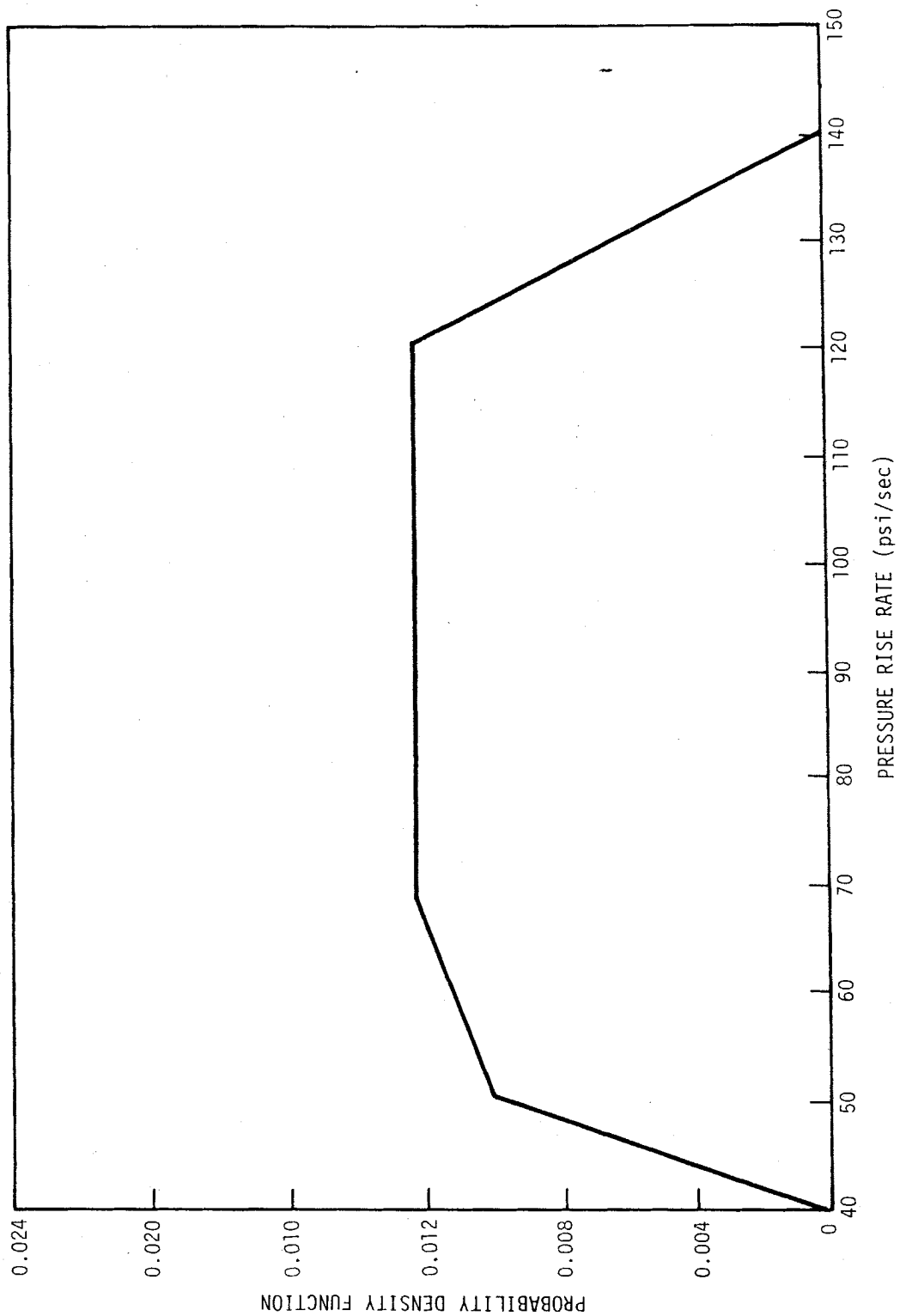
FIGURE A3.9-1
QUENCHER BUBBLE PRESSURE TIME HISTORY



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FIGURE A3.9-2

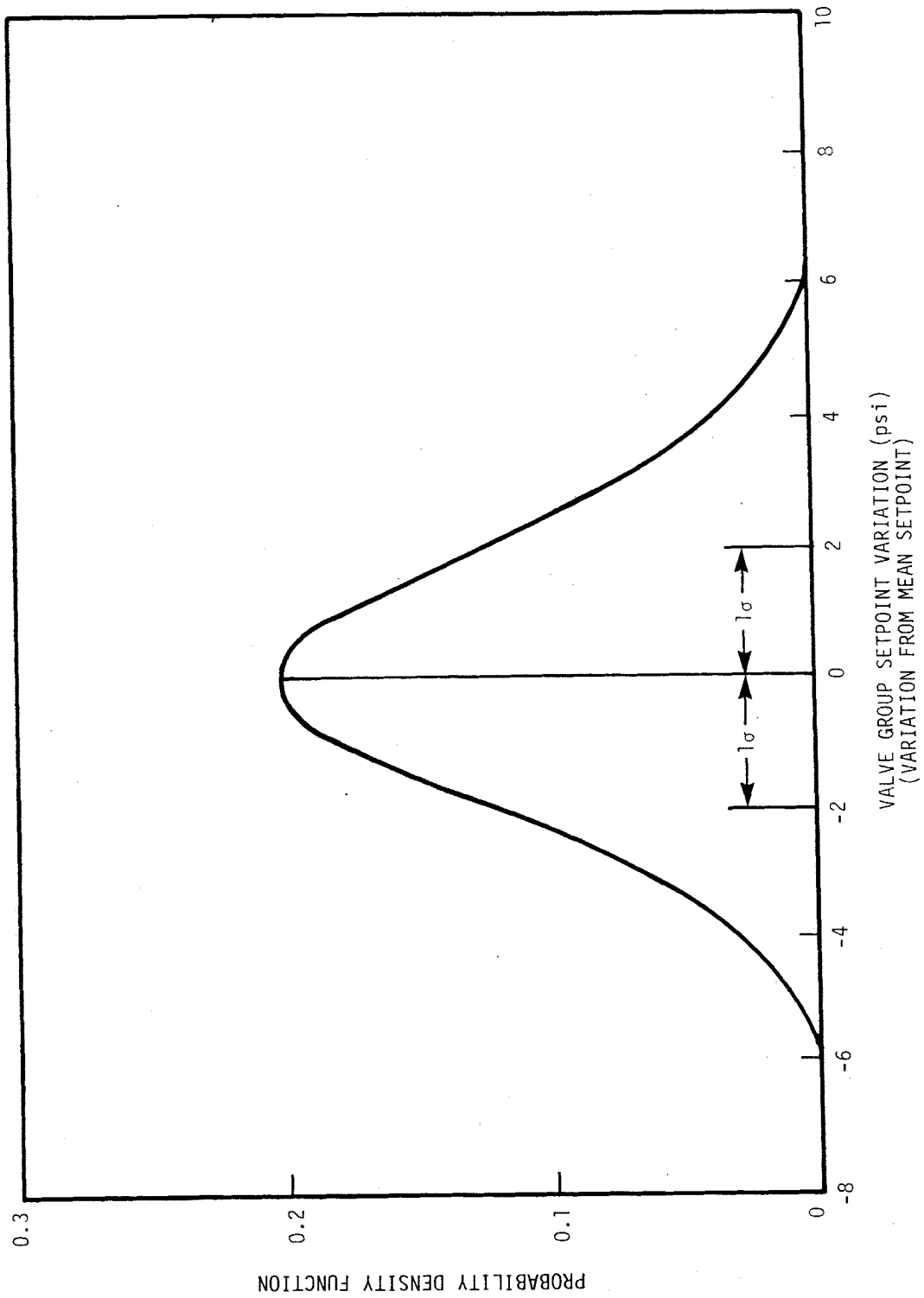
**S/R VALVE DISCHARGE LOCATIONS FOR
218-624 PLANT**



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FIGURE A3.9-3

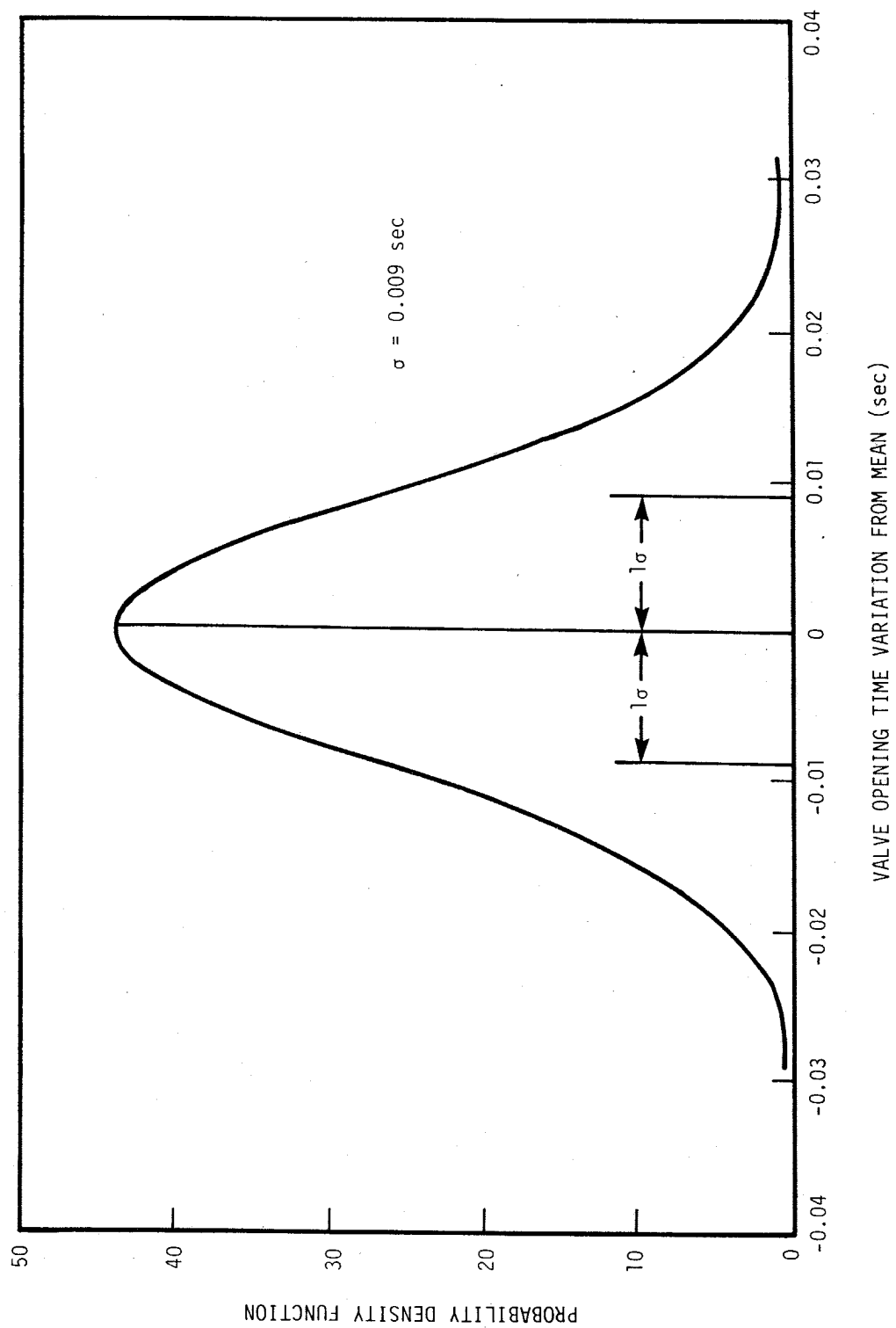
**PROBABILITY DENSITY FUNCTION VS.
PRESSURE RISE RATE**



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FIGURE A3.9-4

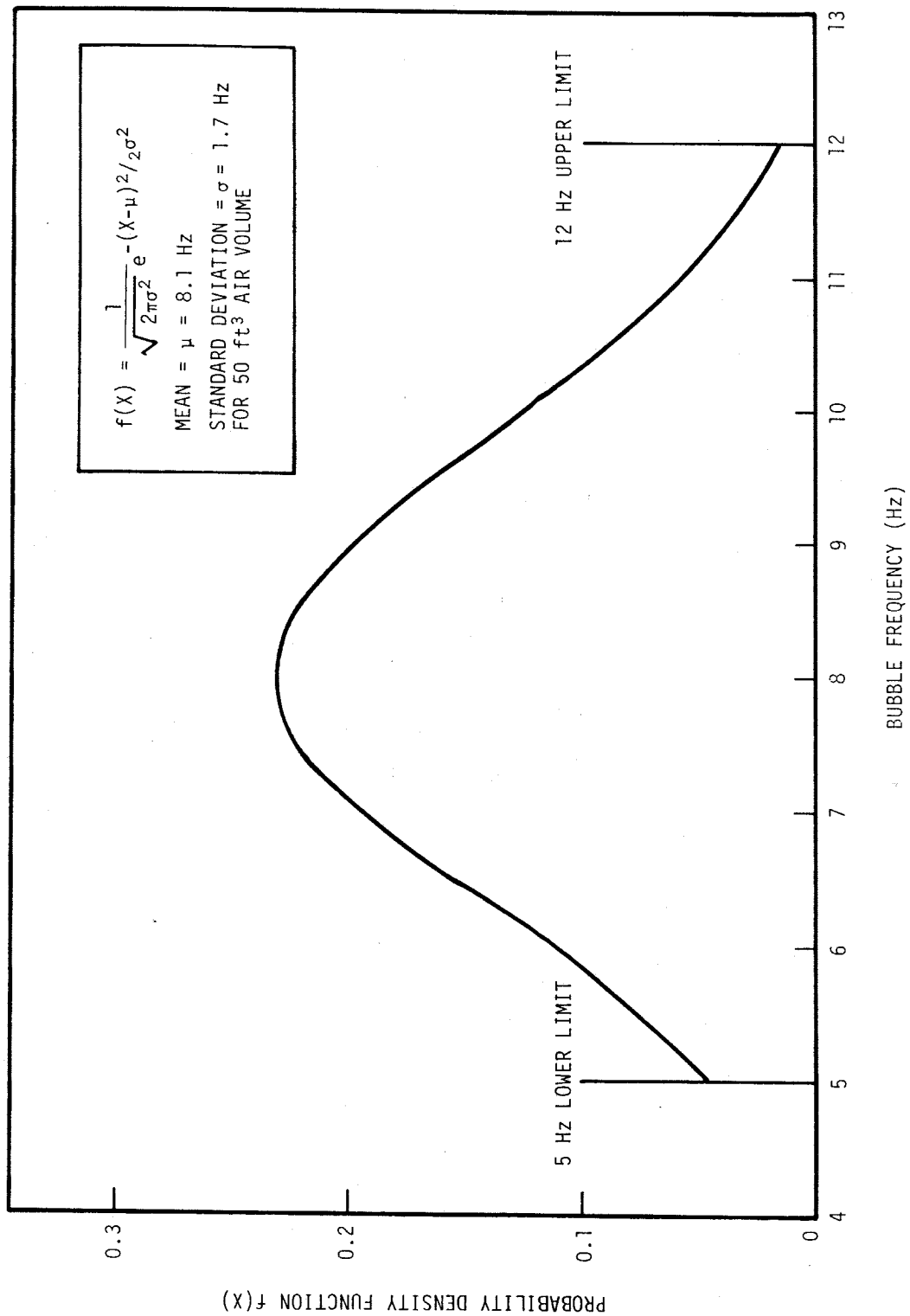
PROBABILITY DENSITY FUNCTION VS.
VALVE GROUP SETPOINT VARIATION



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FIGURE A3.9-5

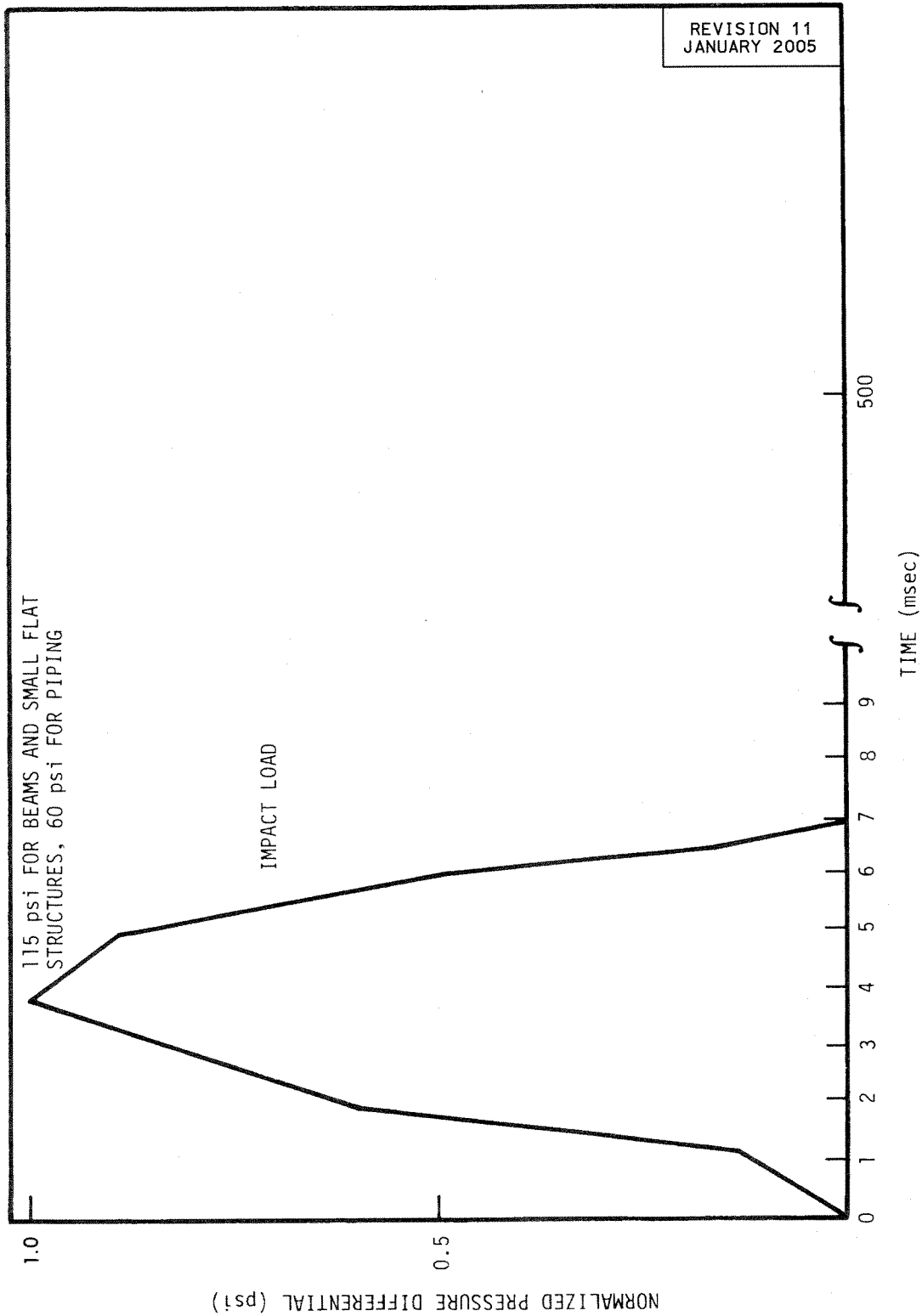
PROBABILITY DENSITY FUNCTION VS.
 VALVE OPENING TIME VARIATION
 (DIKKERS VALVES)



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

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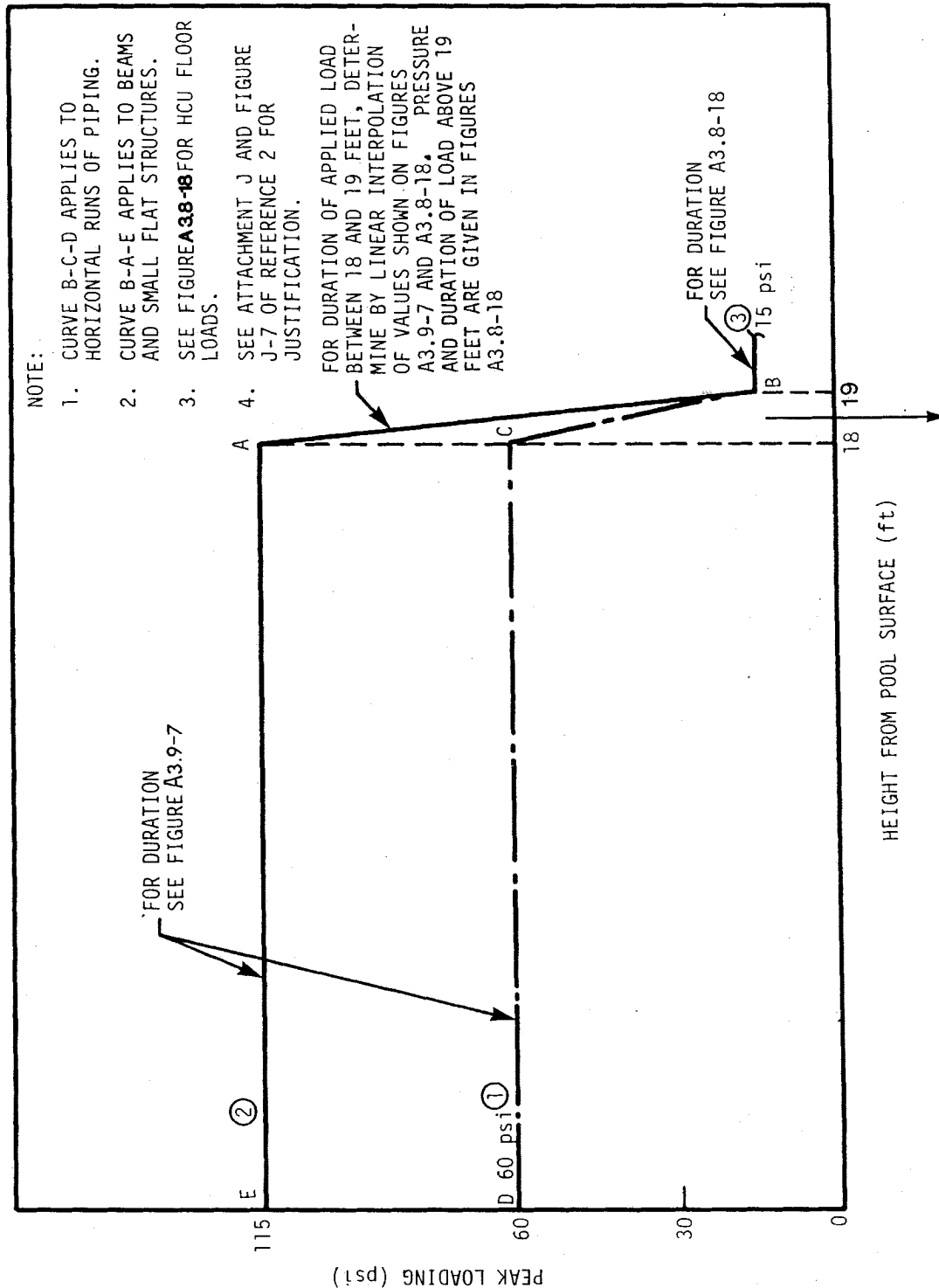
FIGURE A3.9-7

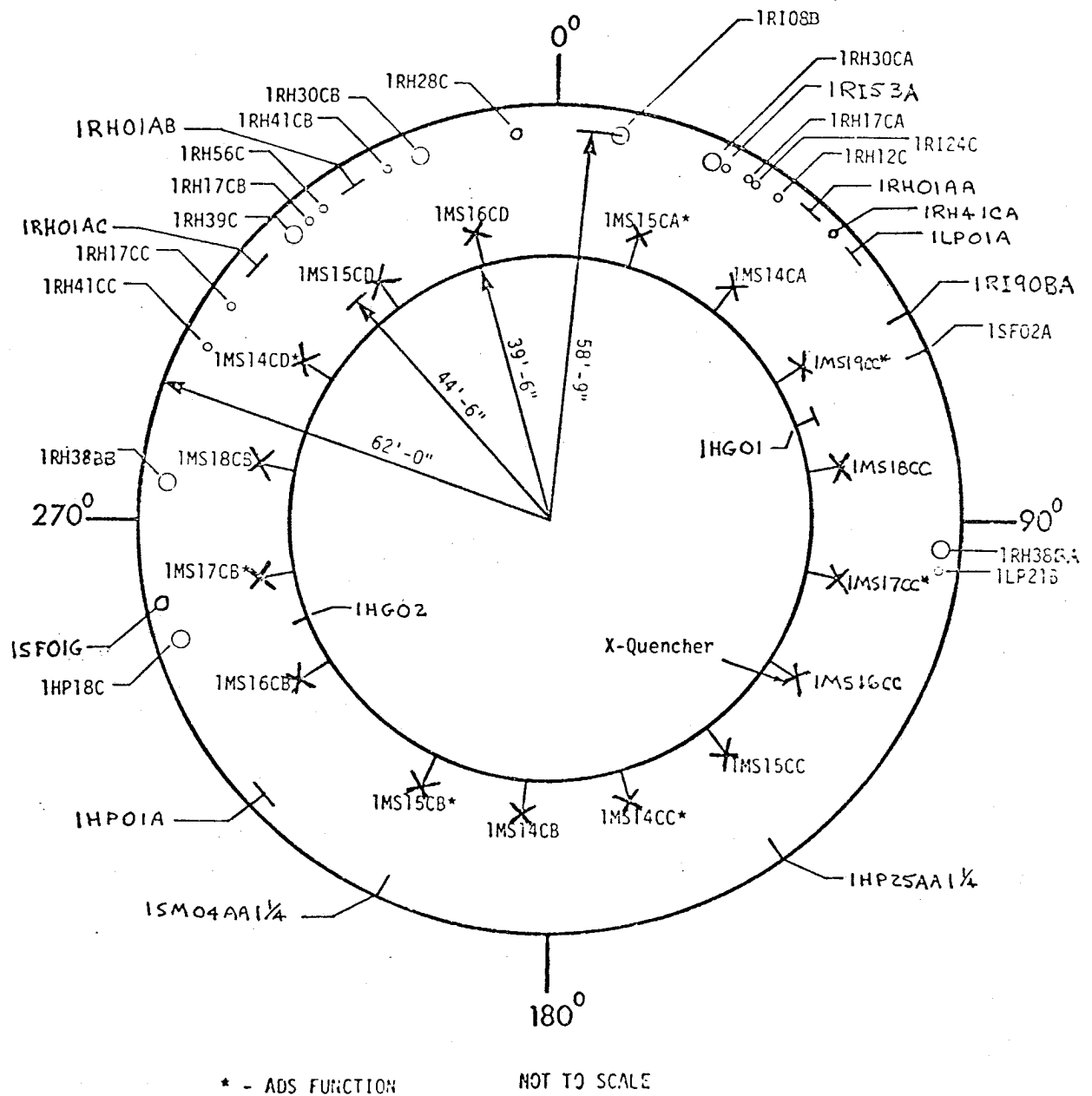
PROFILE OF IMPACT LOADS ON SMALL
STRUCTURES WITHIN 19.5 FT OF THE
POOL SURFACE

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

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)

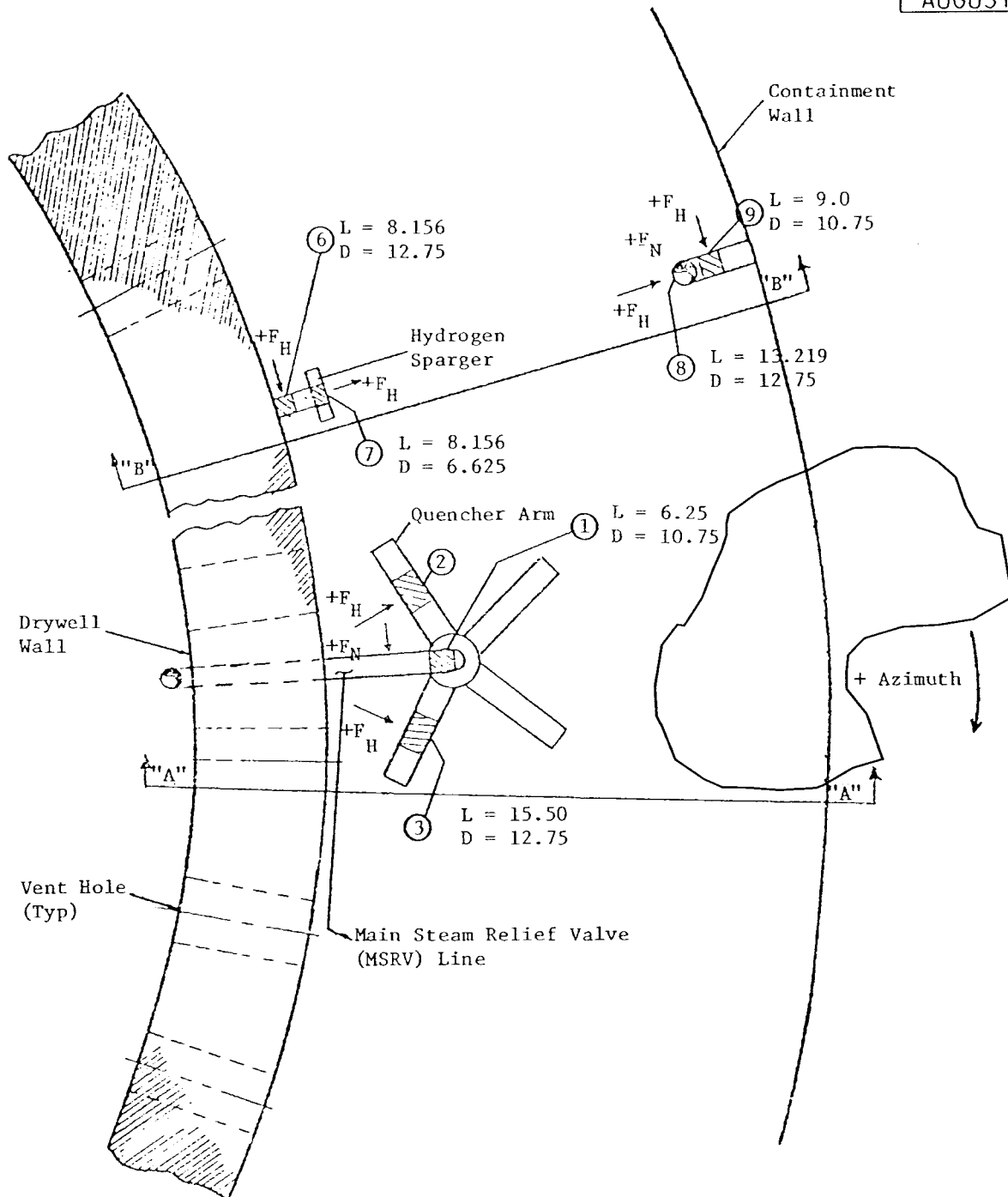




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FIGURE A3.9-9

PLAN OF SUPPRESSION POOL
SHOWING RELATIVE LOCATIONS OF SRV LINES,
QUENCHERS, AND MAJOR SUBMERGED PIPING



SYMBOL

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

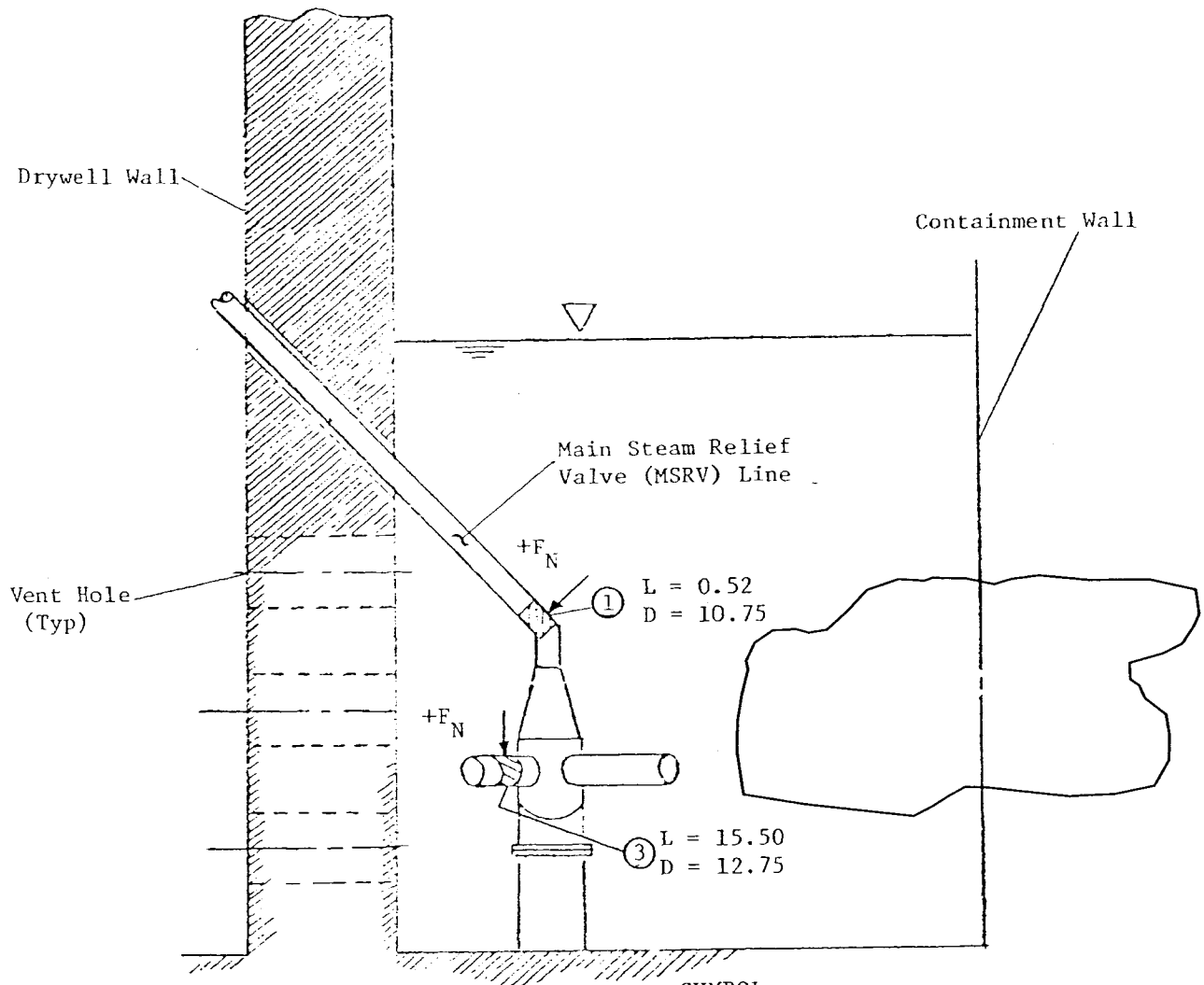
- Notes:
1. Not to scale
 2. Not actual azimuthal locations of submerged structures

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FIGURE A3.9-10

SCHEMATIC OF SUPPRESSION POOL

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NOTE: Not to Scale

SYMBOL

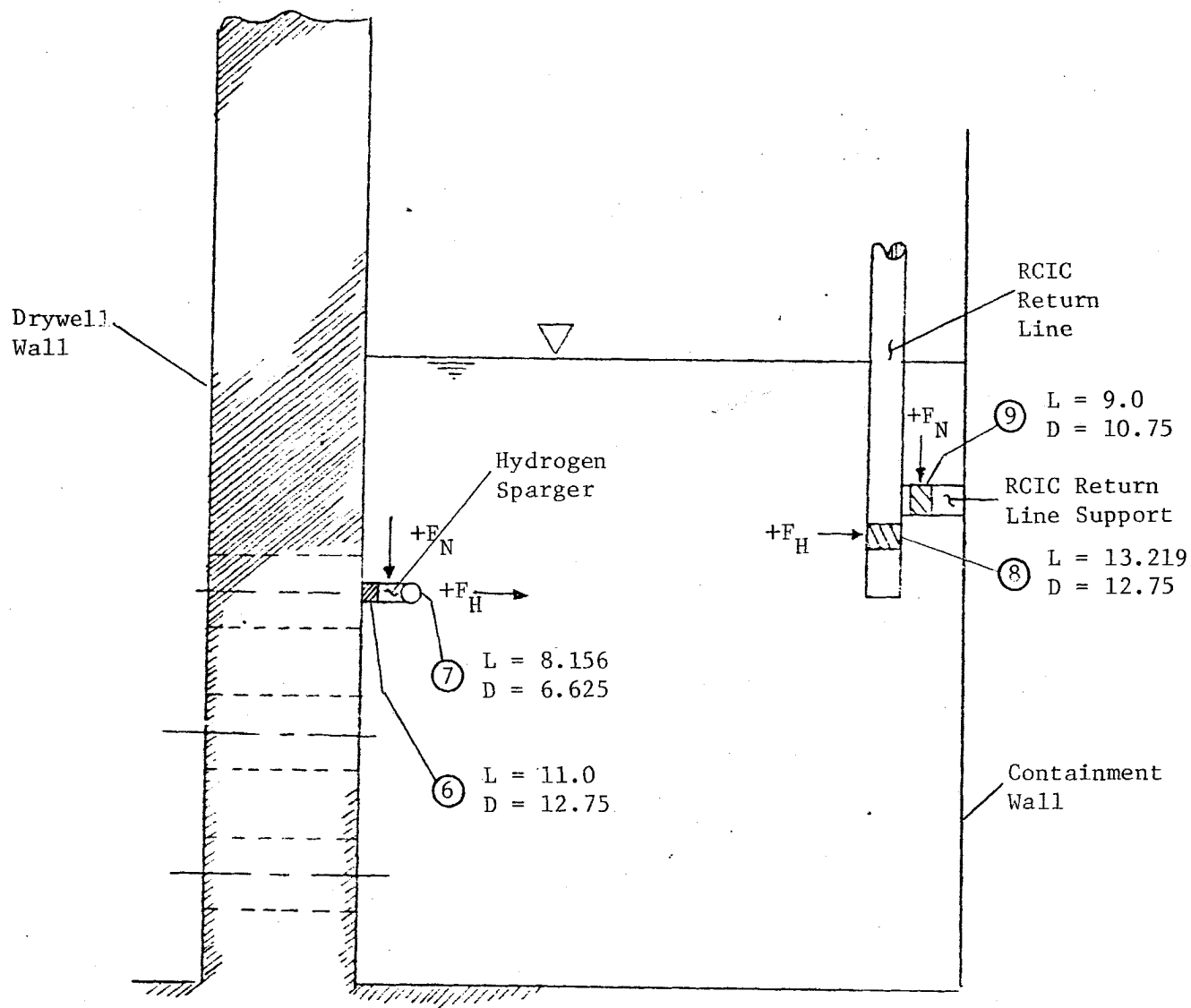
- - Node Numbers
- L - Node Length ~ Inches
- D - Node Diameter ~ Inches
- +F_N - Positive Normal Direction
- +F_H - Positive Horizontal Direction

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

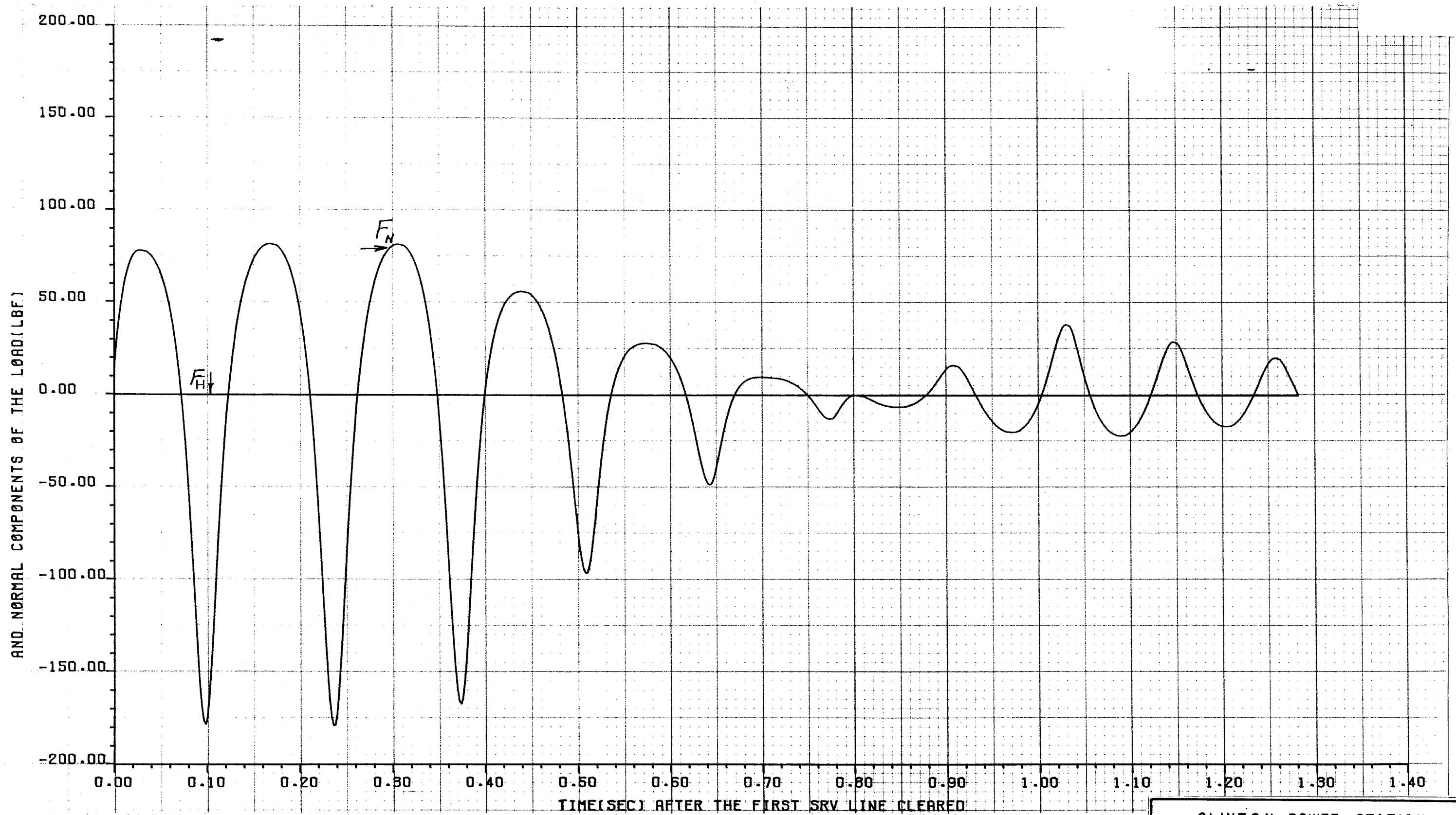
- - Node Number
- L - Node Length ~ Inches
- D - Diameter ~ Inches
- $+F_H$ - Positive Horizontal Direction
- $+F_N$ - Positive Normal Direction

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

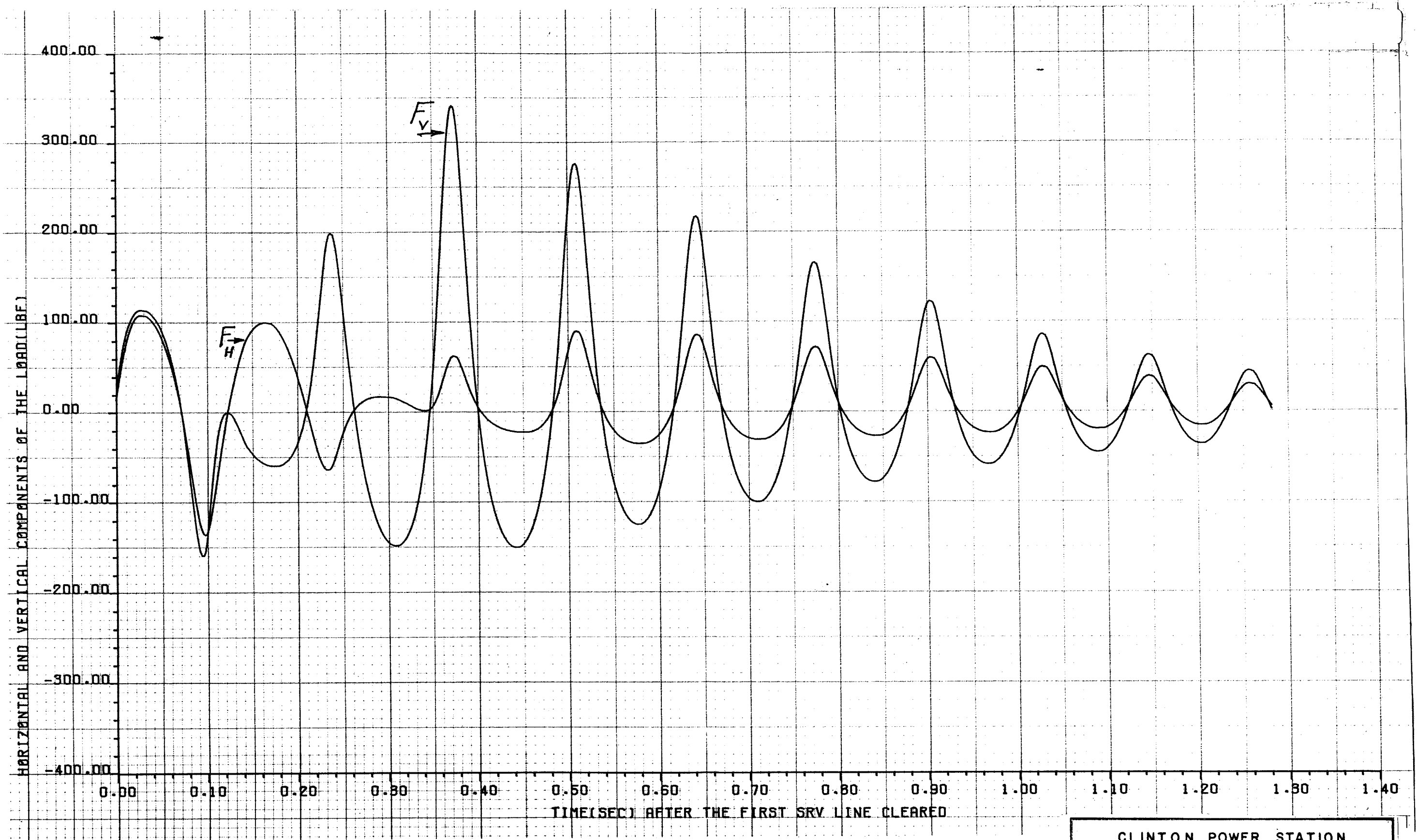
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FIGURE A3.9-12

SCHEMATIC OF SUPPRESSION POOL
SECTION B-B



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FIGURE A3.9-13
SVSP SRV LOAD ON SRVDL2
NODE 1 (MIDPOINT)

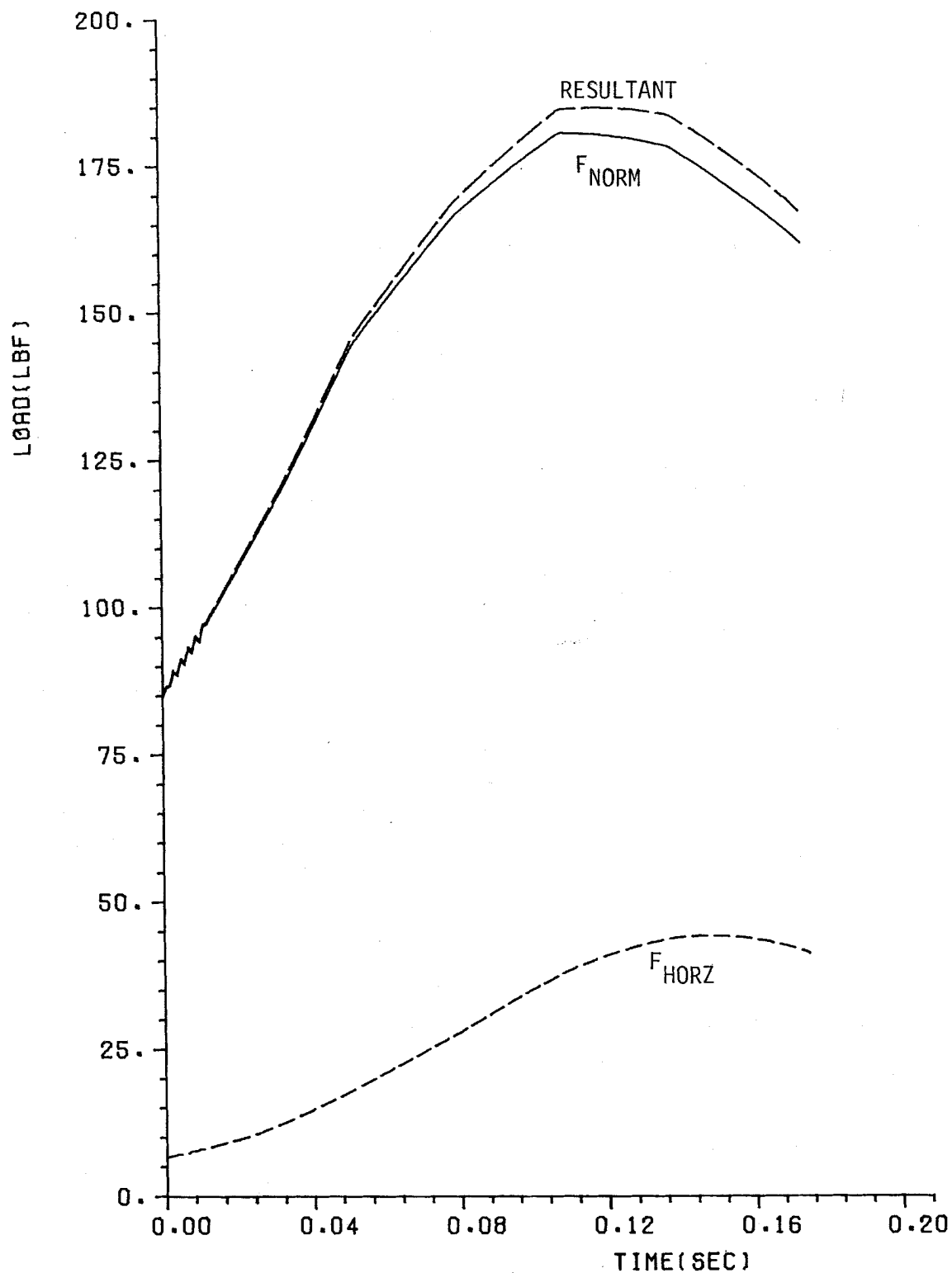


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FIGURE A3.9-14

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

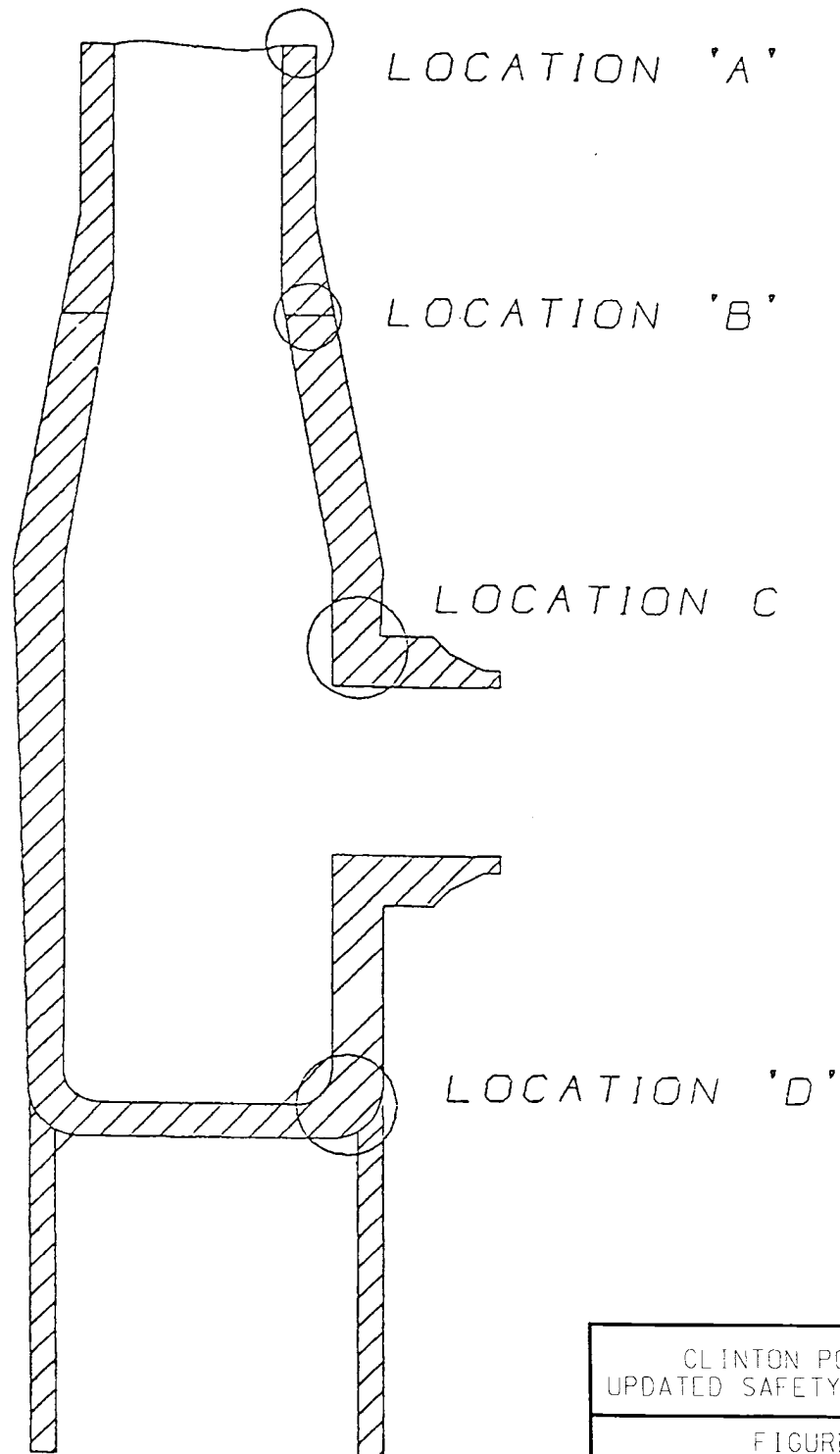
FIGURES A3.9-15 THROUGH A3.9-22
HAVE BEEN DELETED



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FIGURE A3.9-23

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



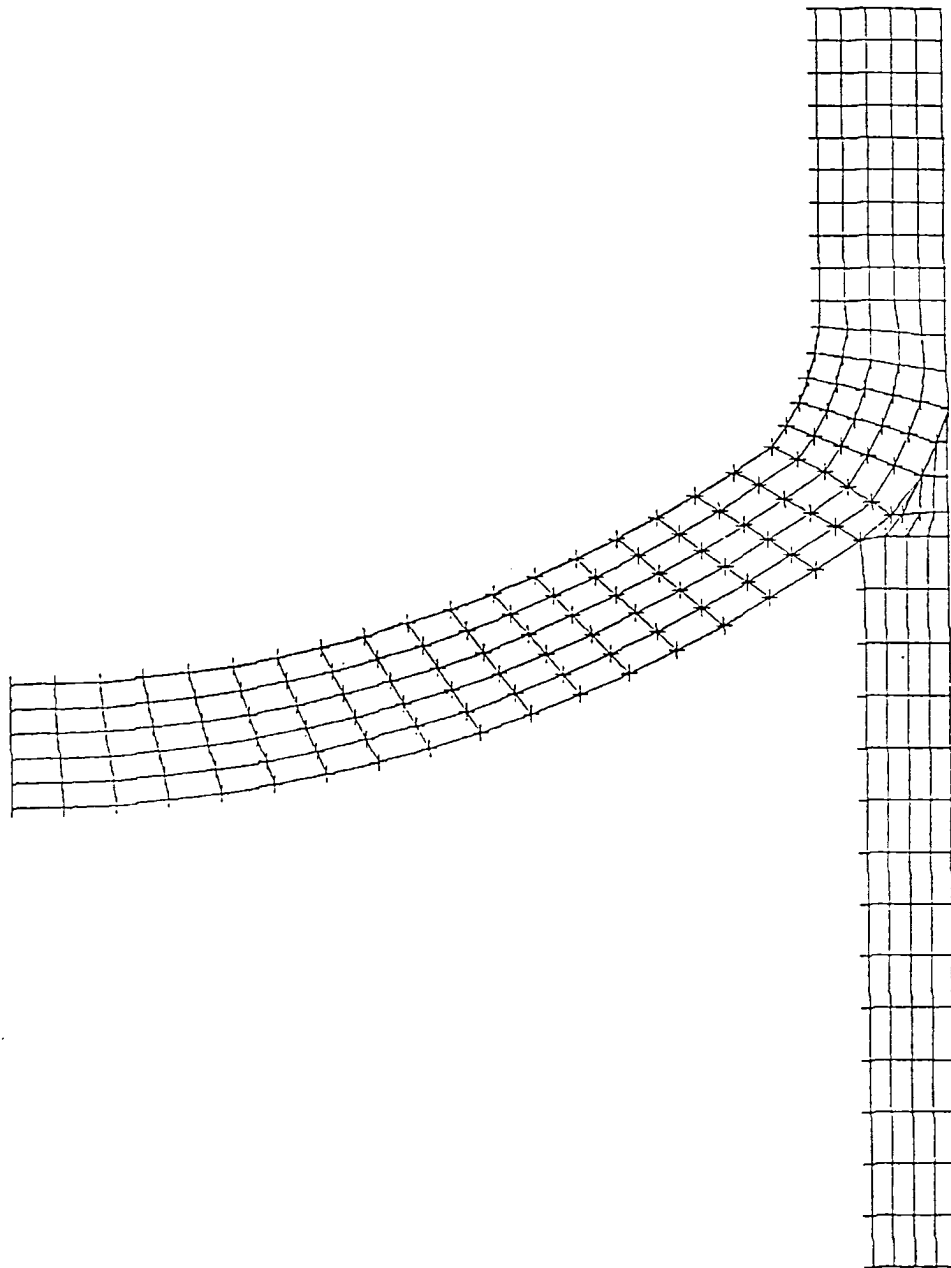
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FIGURE B3.9-1

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

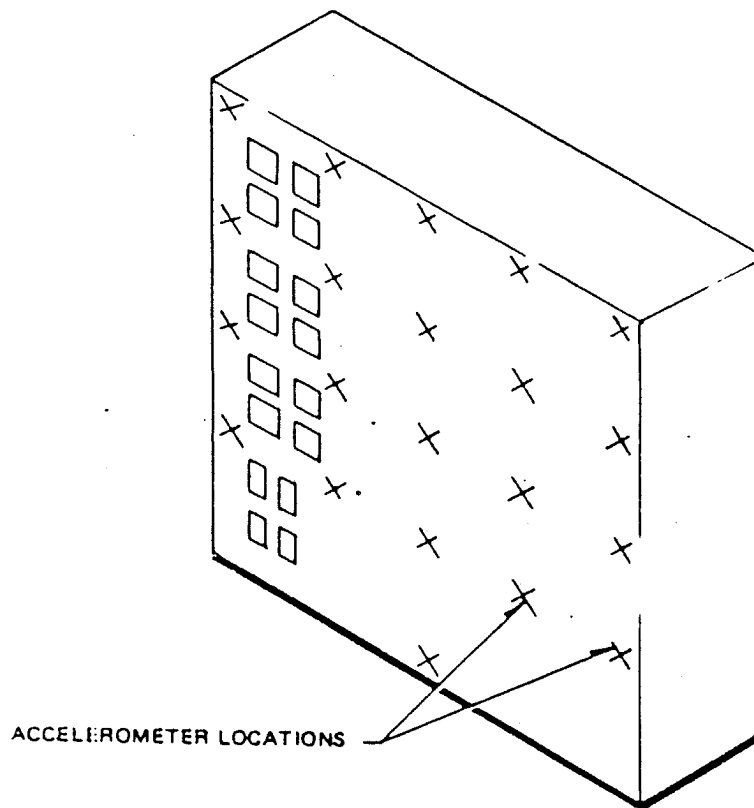


Figure 3.10-1. Typical Vertical Board (Benchboard Would be the Same with a Bench Section Protruding Out About Half-way Down)

CPS-USAR

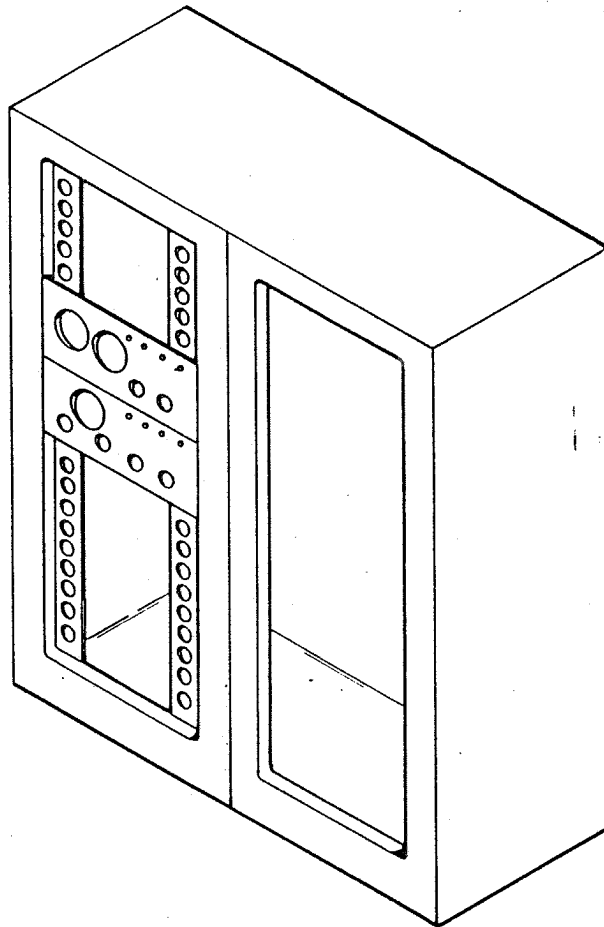


Figure 3.10-2. Instrument Rack (Cabinet would Contain Pages or Other Special Instruments instead of Simple Drawer Type Instruments)

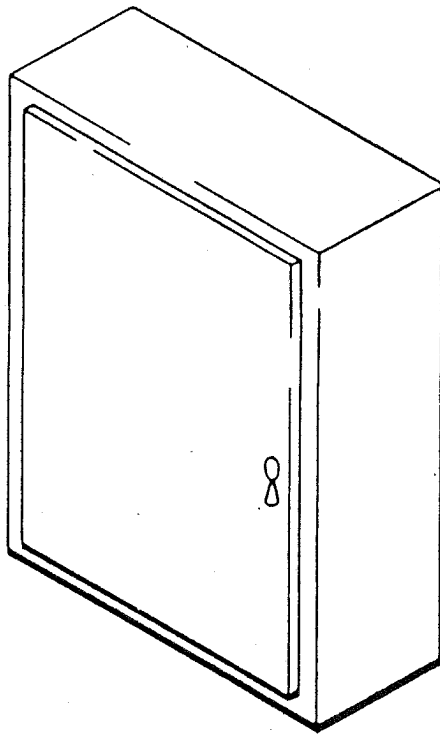


Figure 3.10-3. NEMA Type-12 Enclosure (Instruments Mounted Inside on Internal Membrane Mounted on Standoffs Attached to Back)

CPS-USAR

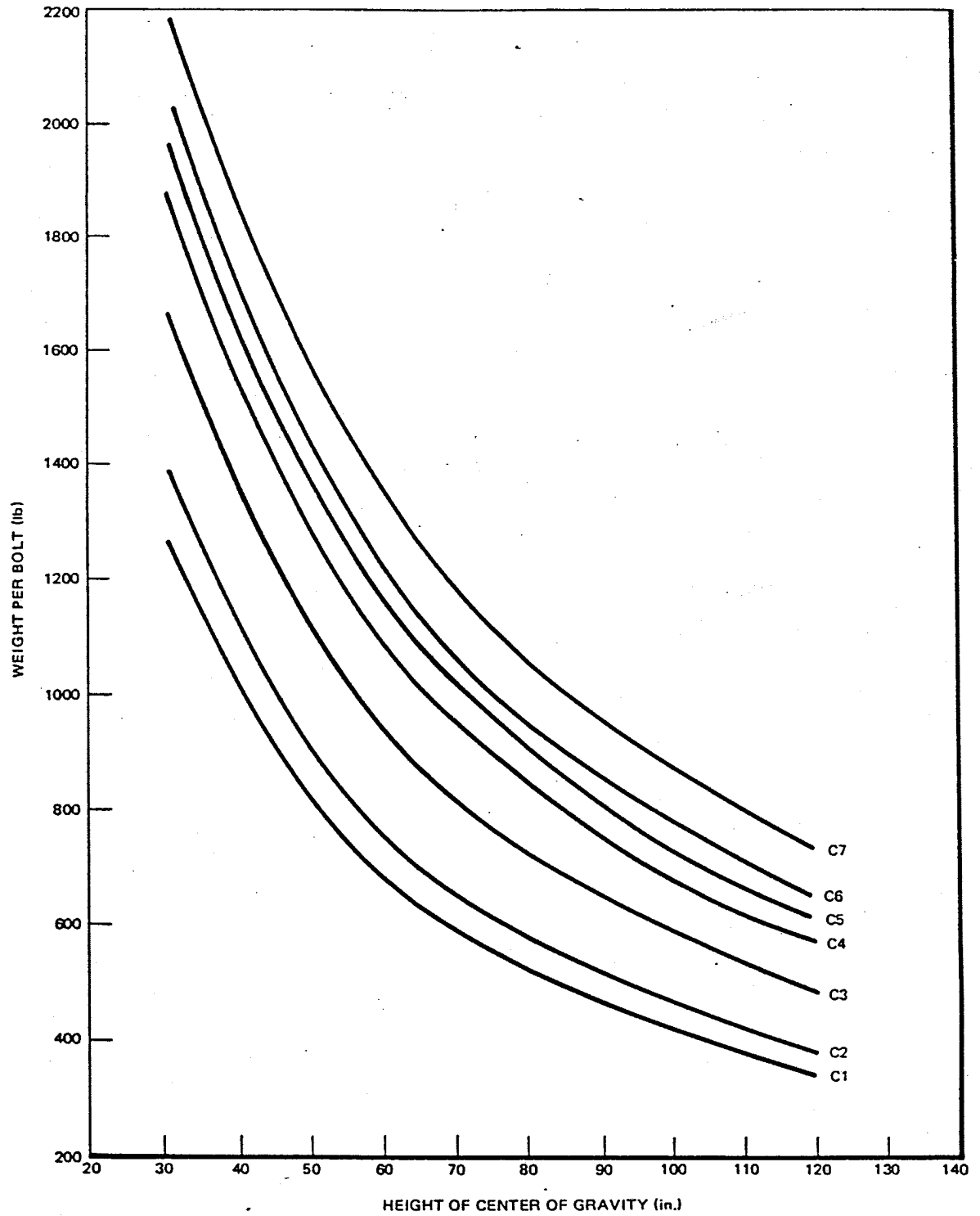


Figure A3.10-1 Maximum Safe Weight per Bolt for Standard Enclosure as a Function of the Height of the Center of Gravity

CPS-USAR

WEIGHT = 2500 lb
PANEL NO. = 730E811

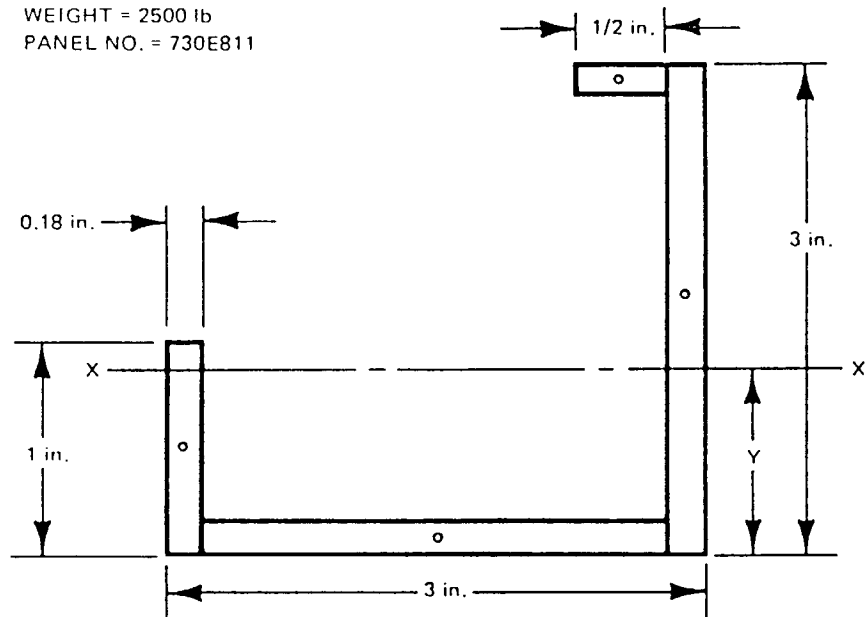


Figure B3.10-1. Corner Post

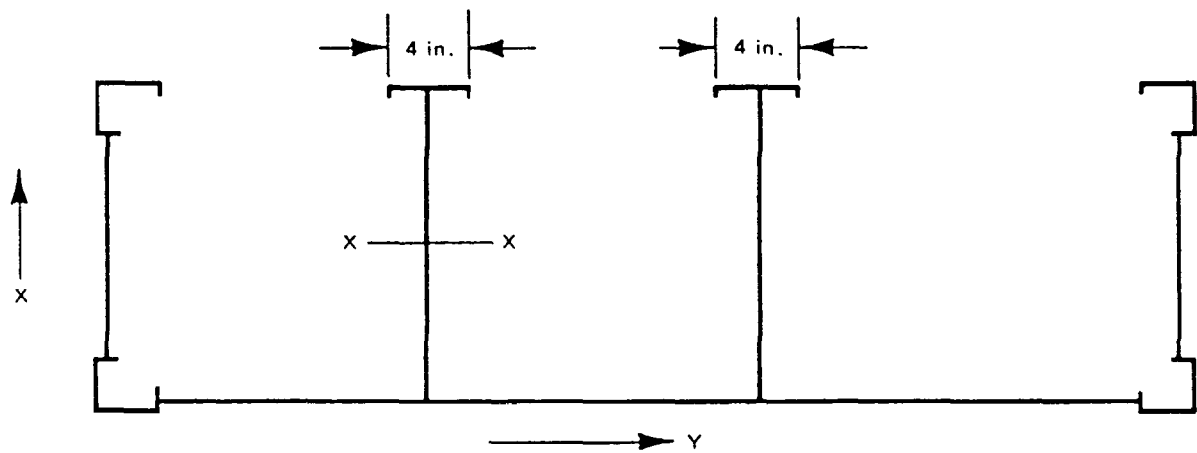


Figure B3.10-2. Plan View of Panel

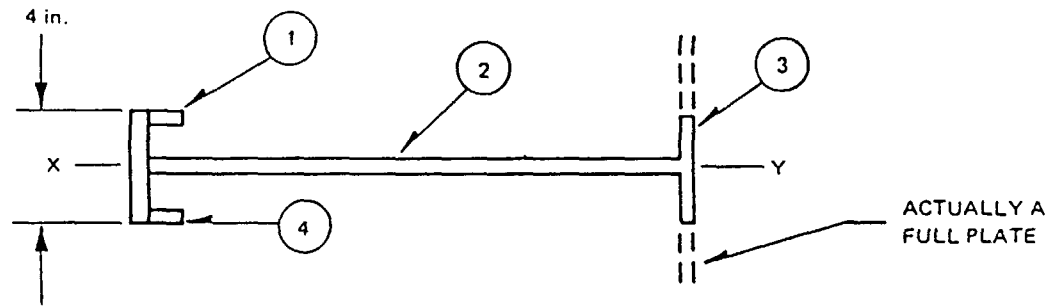


Figure B3.10-3. Barrier With Two End Plates

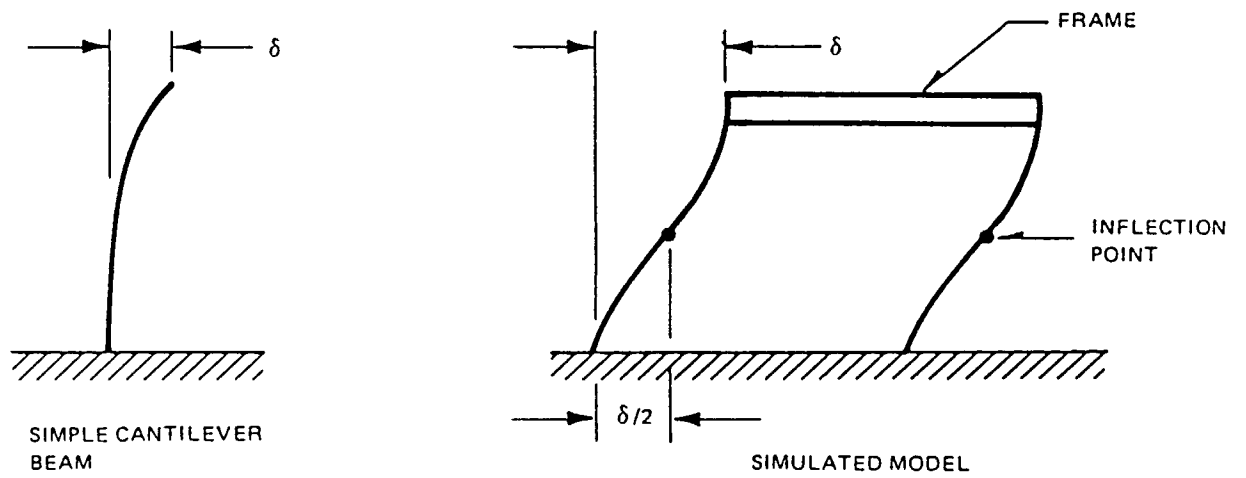
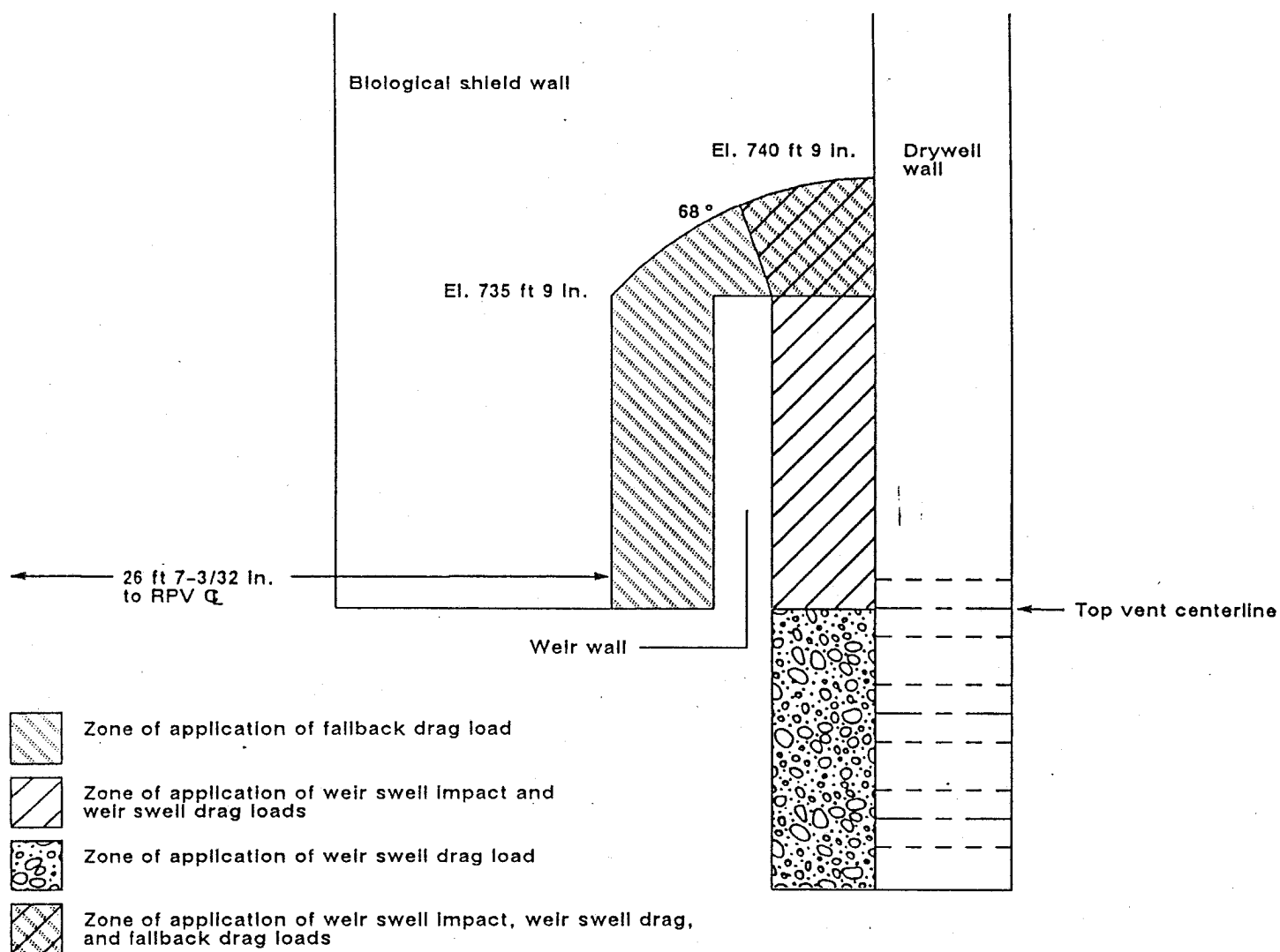


Figure B3.10-4. Panel Deflections

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