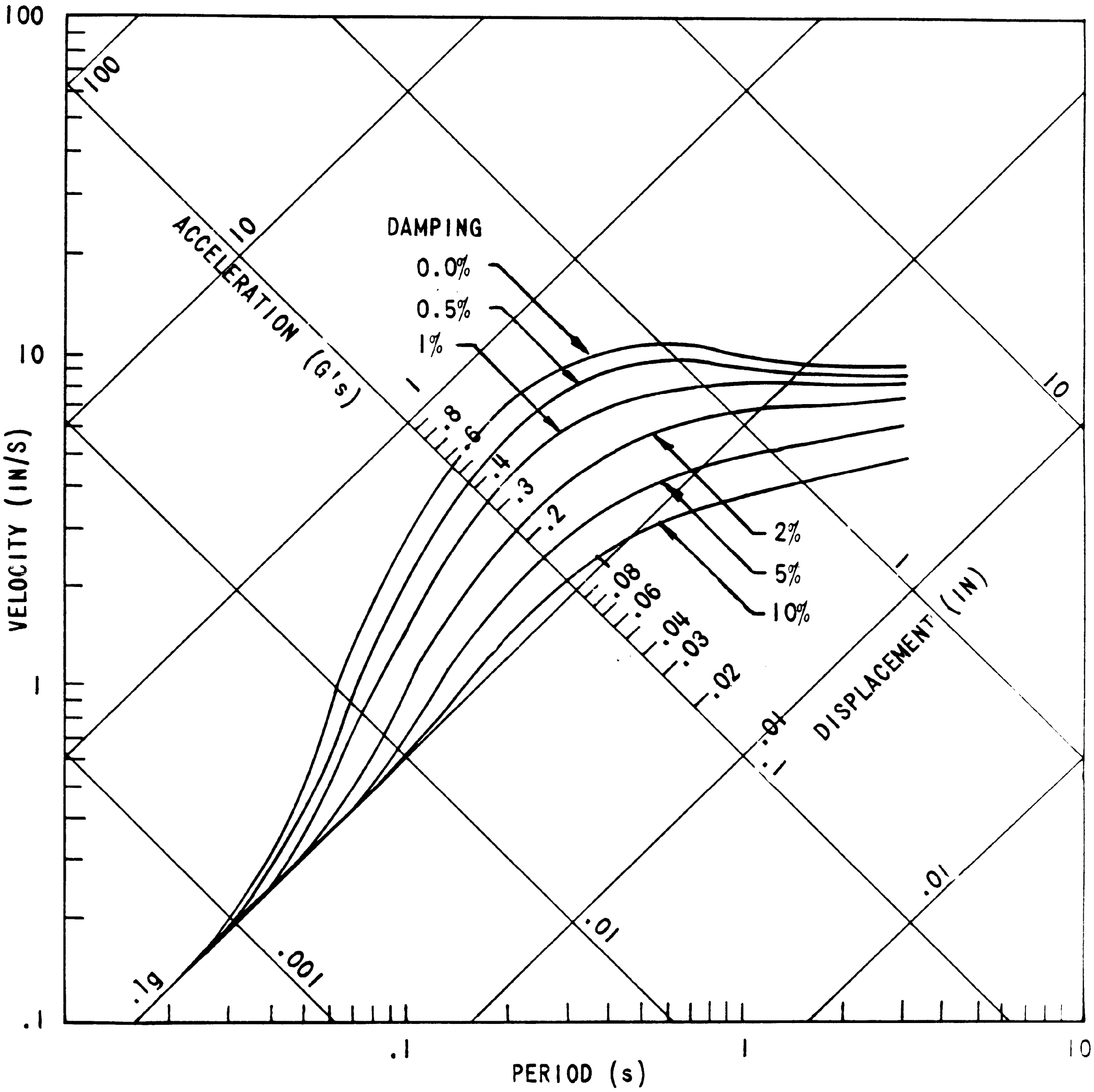
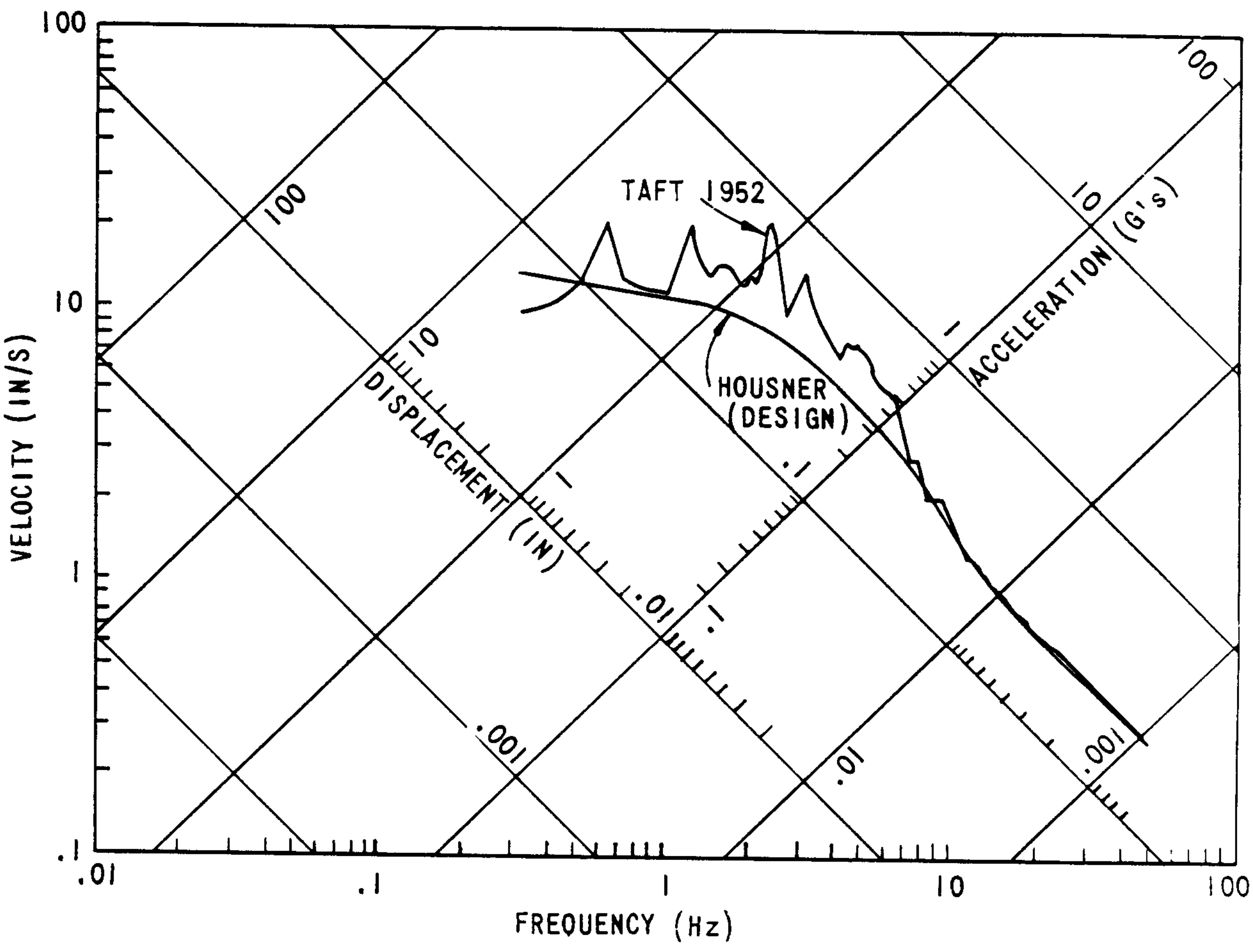
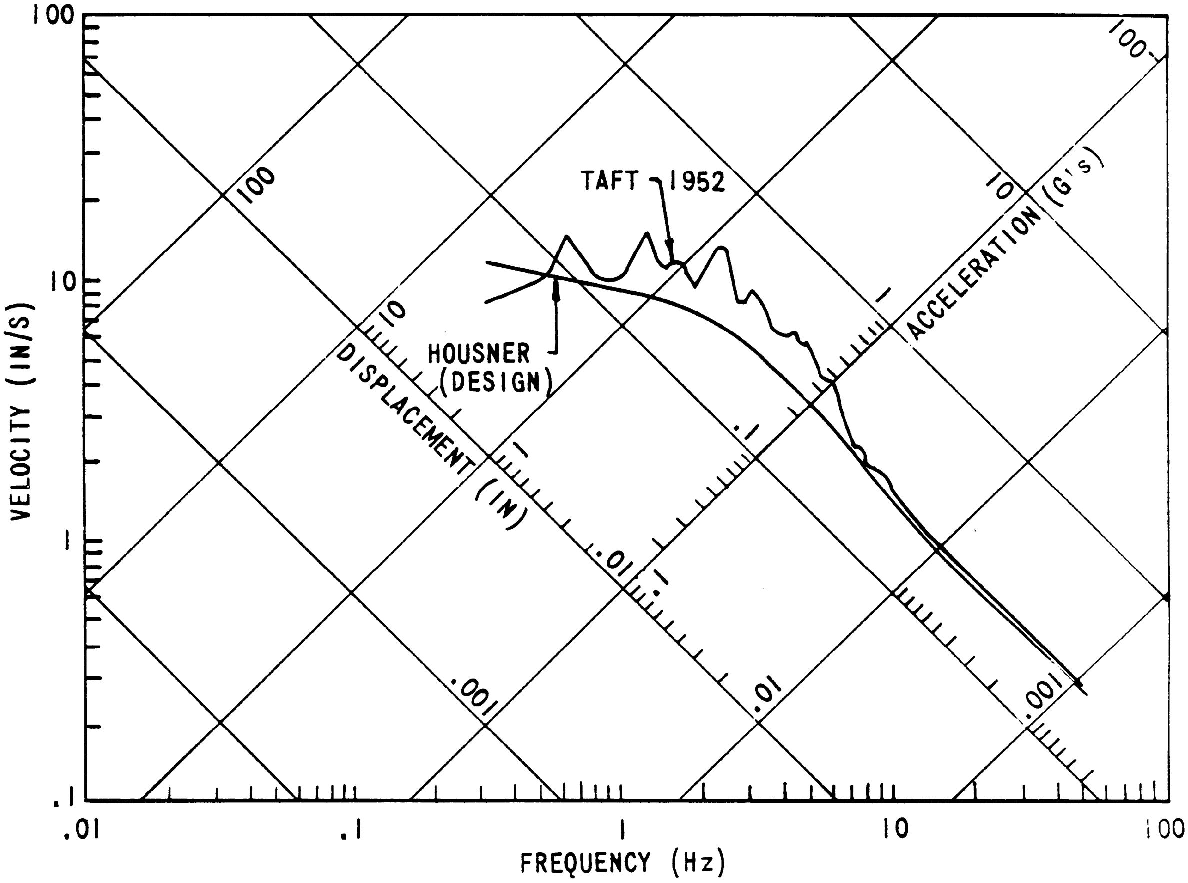
OBE HORIZONTAL DESIGN GROUND RESPONSE SPECTRUM
(HOUSNER)



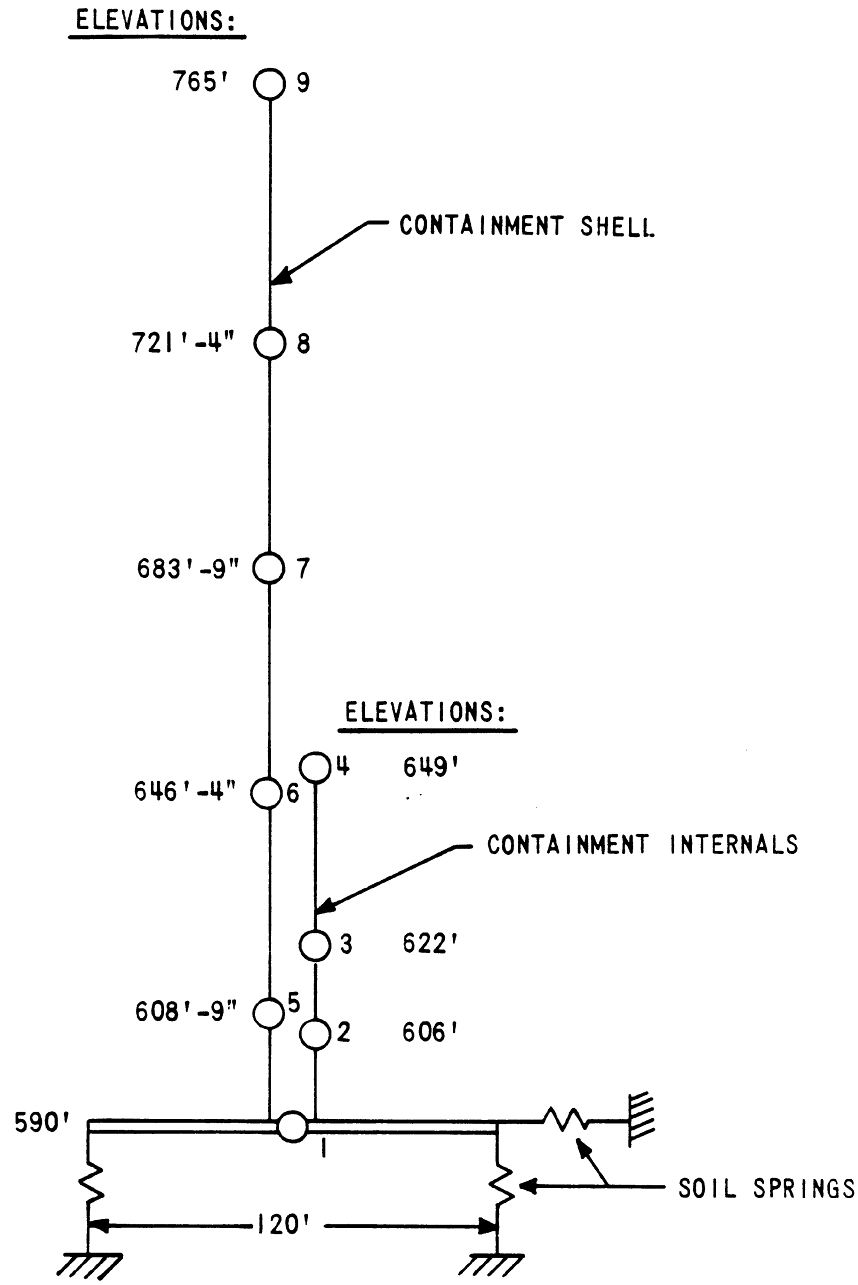
**TAFT GROUND RESPONSE SPECTRUM VERSUS HOUSNER GROUND RESPONSE SPECTRUM (SSE)
4% DAMPING**



TAFT GROUND RESPONSE SPECTRUM VERSUS HOUSNER GROUND RESPONSE SPECTRUM (SSE)
72% DAMPING



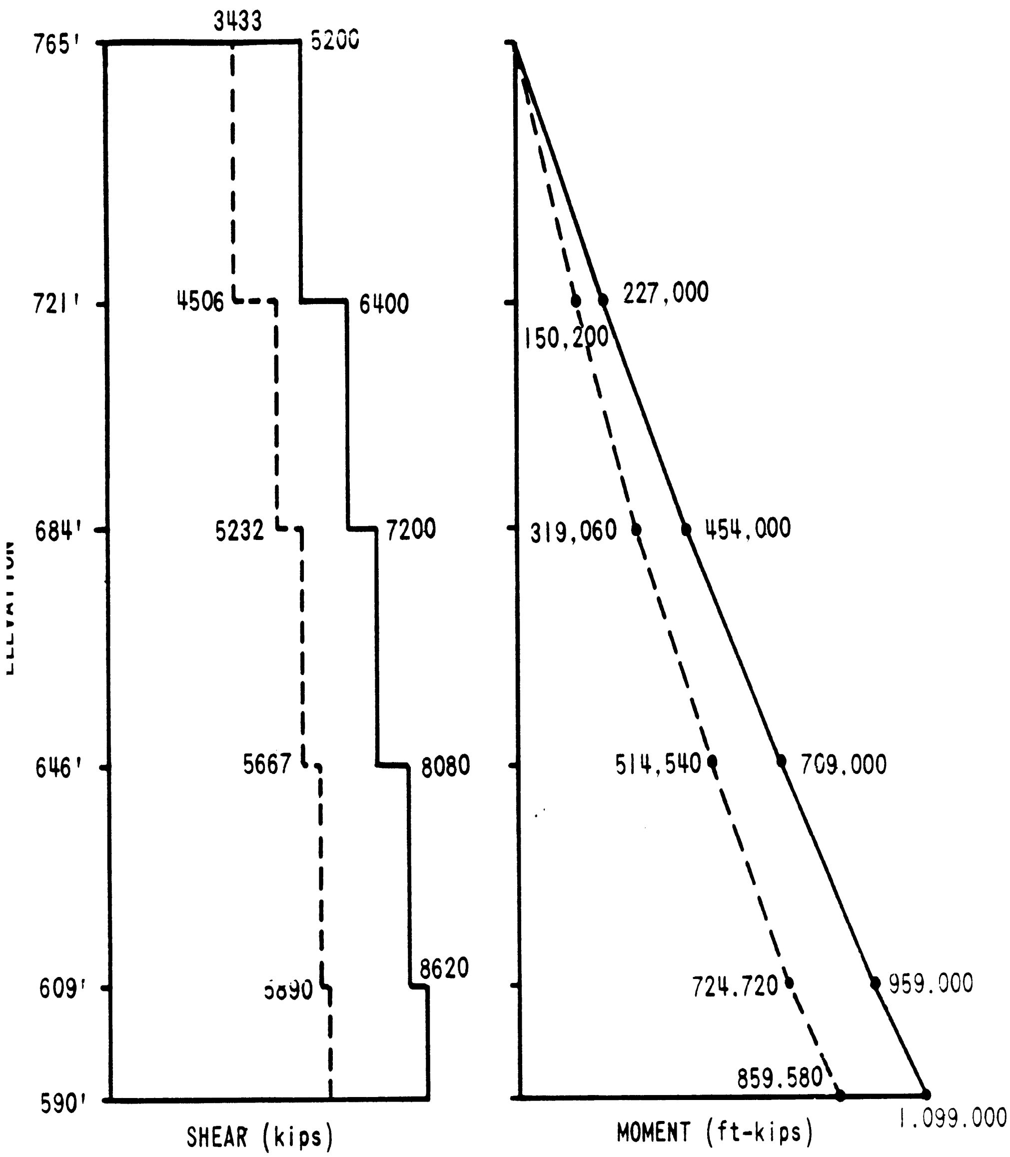
CONTAINMENT BUILDING DYNAMIC MODEL



NOTES:

1. CIRCLES REPRESENT LUMPED MASS LOCATIONS

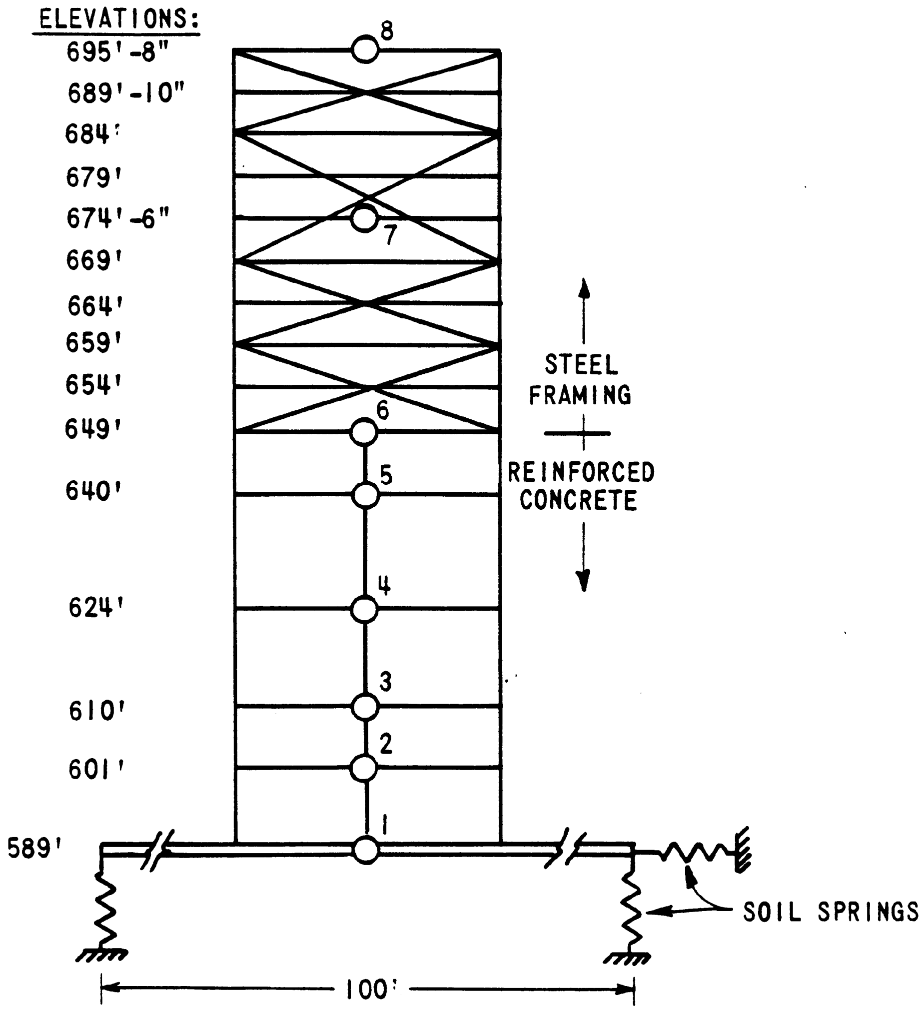
**CONTAINMENT SHELL MAXIMUM SEISMIC RESPONSES (OBE)
COMPARISON OF RESPONSES FOR FIXED BASE AND COUPLED MODELS**



NOTE: MASS POINT ELEVATIONS
SHOWN TO NEAREST FOOT

— FIXED BASE MODEL (FIRST MODEL)
- - - SOIL-SHELL-INTERNALS MODEL
(FINAL MODEL)

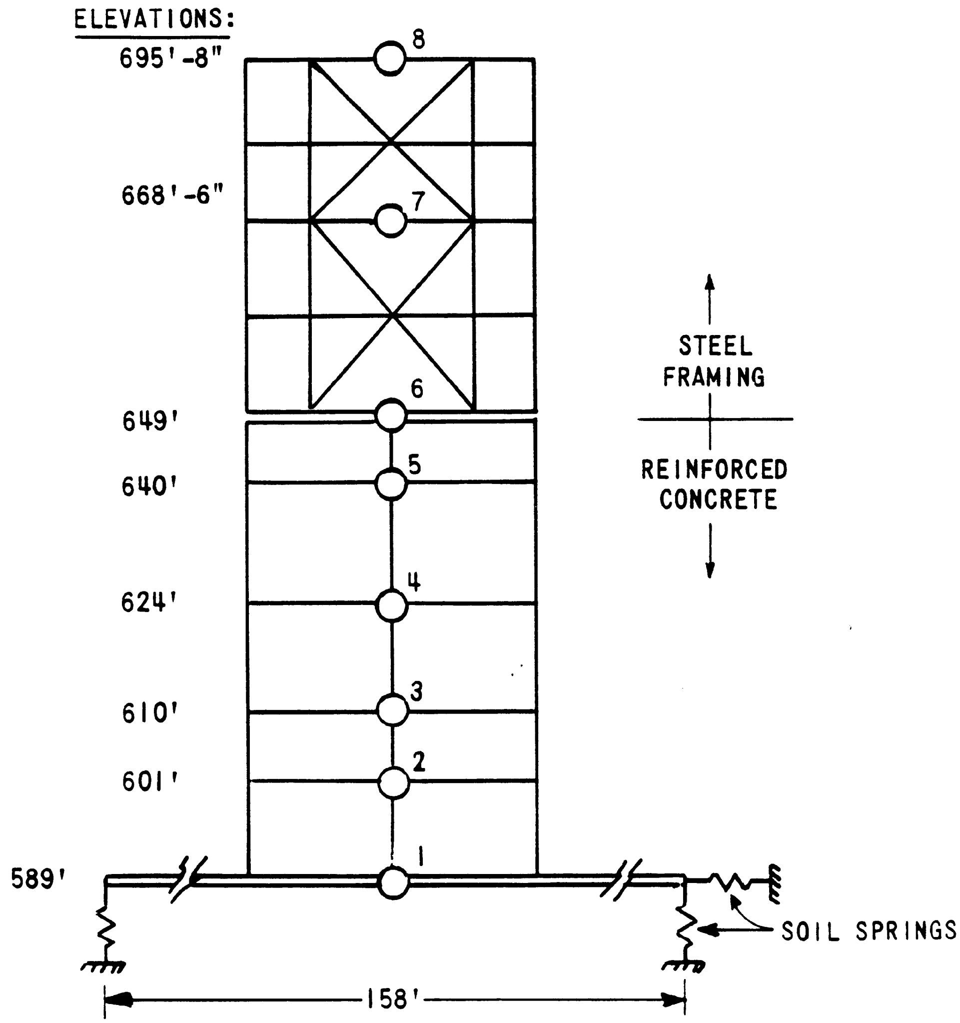
AUXILIARY BUILDING
N-S MATHEMATICAL MODEL



NOTES:

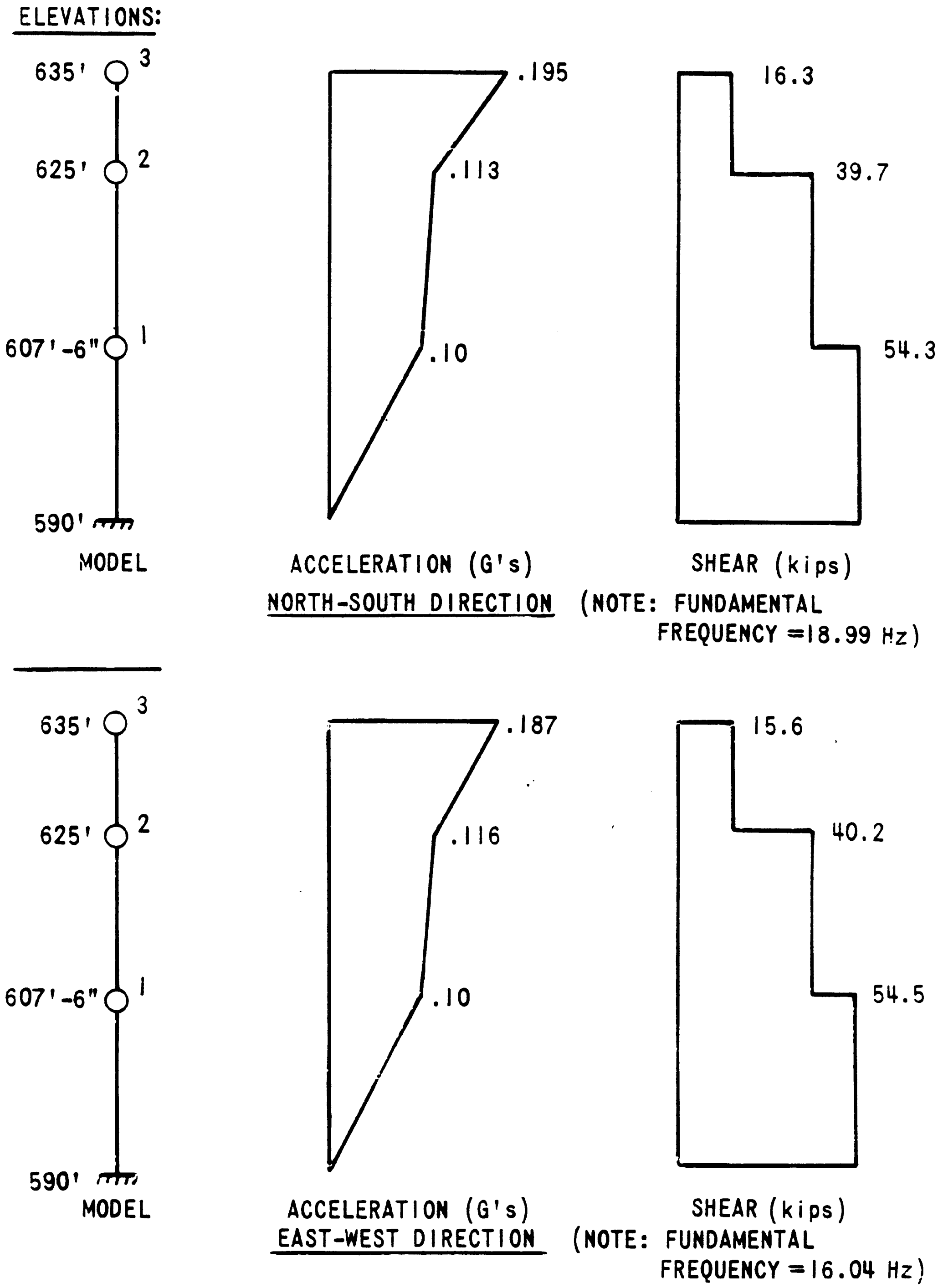
1. CIRCLES REPRESENT LUMPED MASS LOCATIONS.

AUXILIARY BUILDING
E-W MATHEMATICAL MODEL



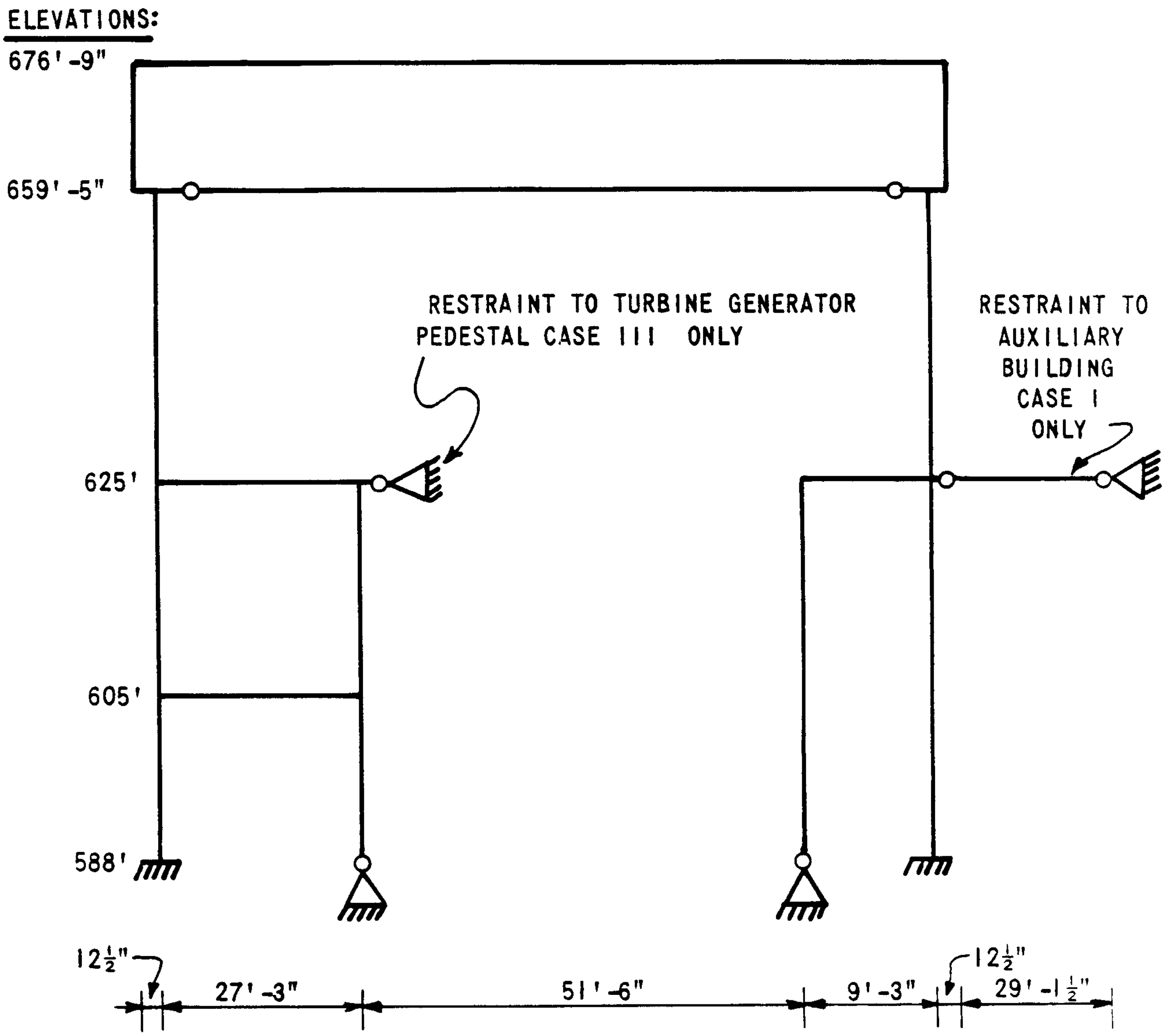
NOTES:
1. CIRCLES REPRESENT LUMPED MASS LOCATIONS.

ELECTRICAL PENETRATION ENCLOSURE
N-S & E-W DYNAMIC MODELS AND MAXIMUM SEISMIC RESPONSES (OBE)



NOTES:
1. CIRCLES REPRESENT LUMPED MASS LOCATIONS

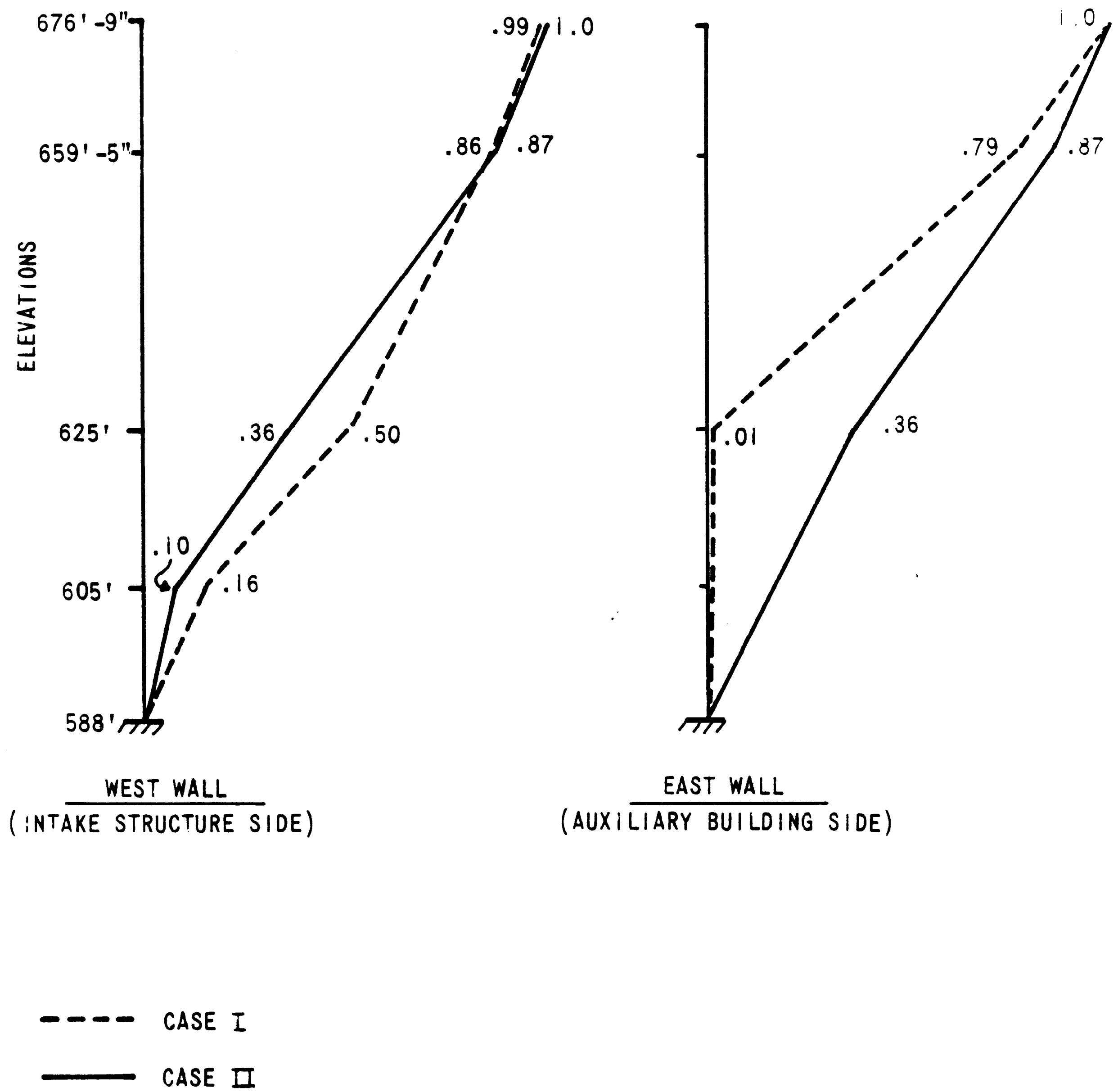
TURBINE BUILDING
E-W DYNAMIC MODELS



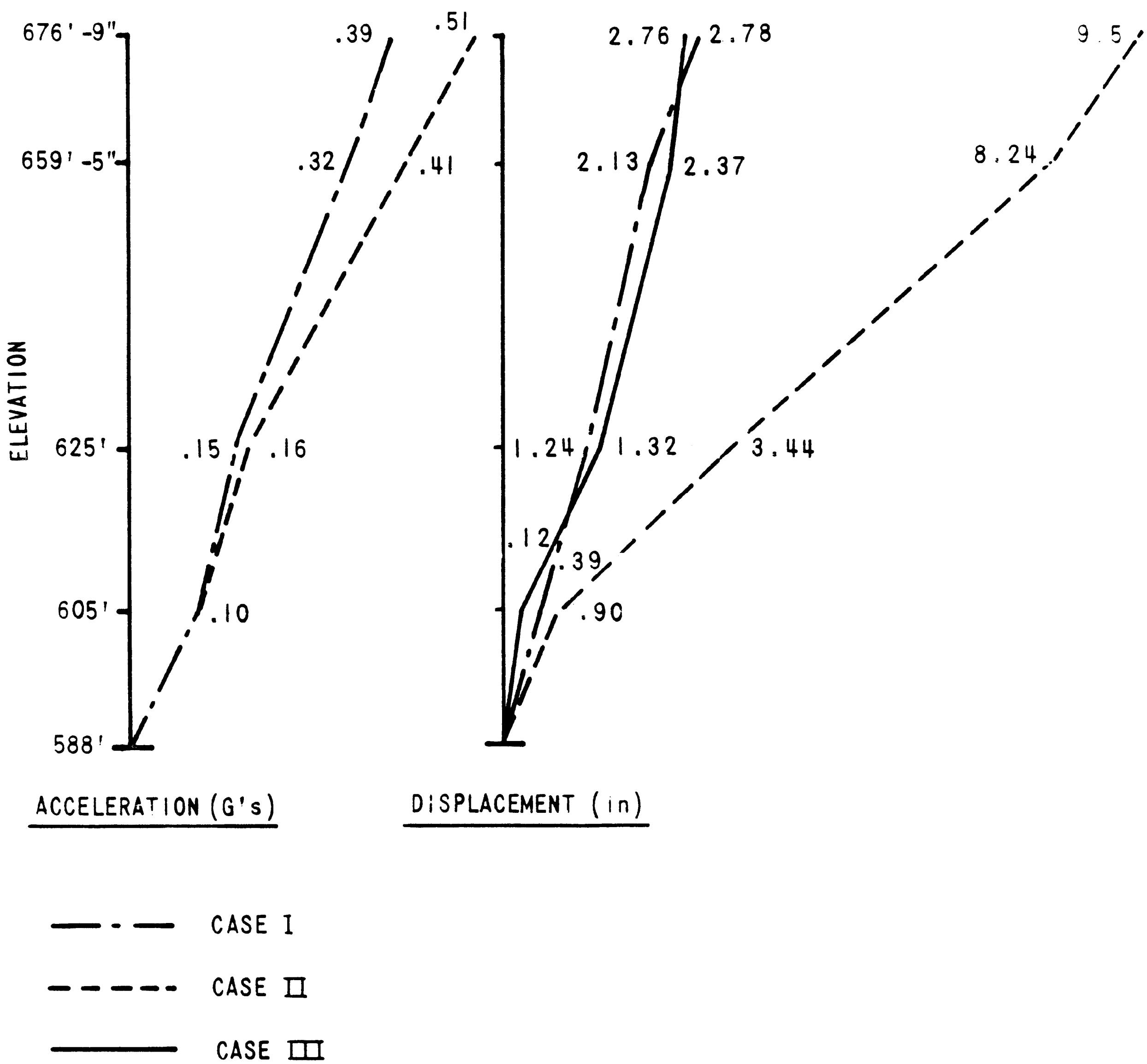
NOTES:

1. SMALL CIRCLES REPRESENT PINNED CONNECTIONS

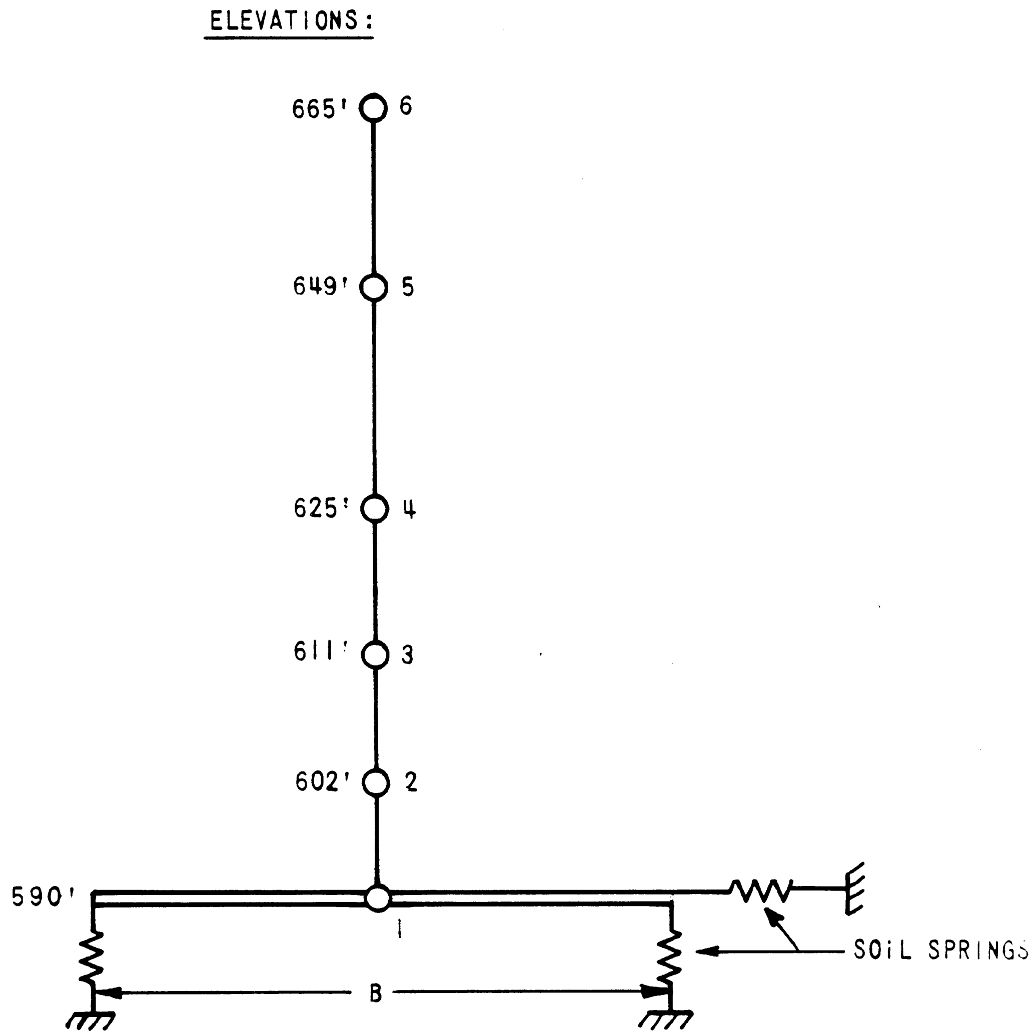
TURBINE BUILDING
E-W FUNDAMENTAL MODESHAPES, OUTSIDE WALLS



TURBINE BUILDING
E-W DIRECTION, MAXIMUM SEISMIC RESPONSES (SSE)



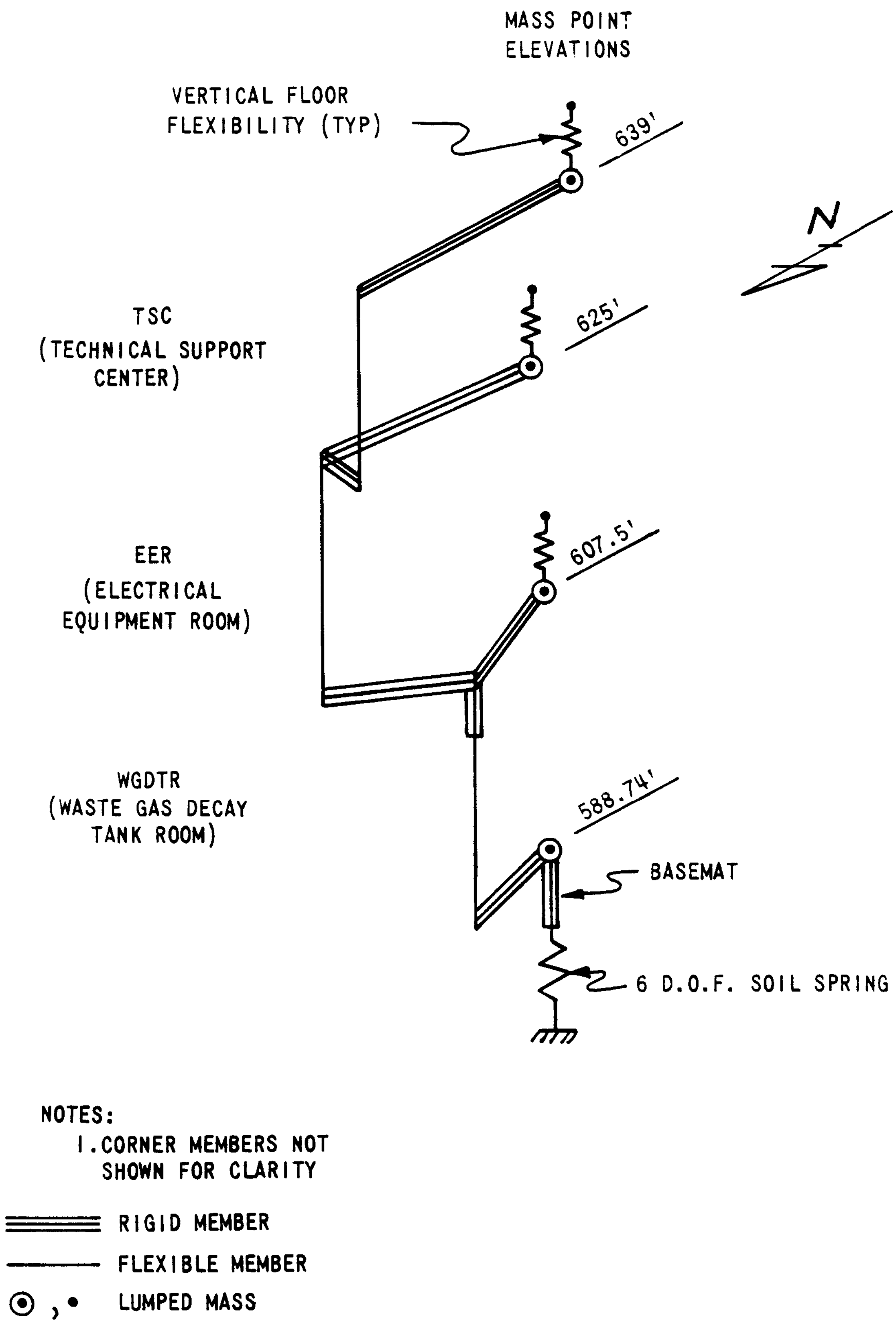
**AUXILIARY BUILDING RADWASTE ADDITION
DYNAMIC MODELS**



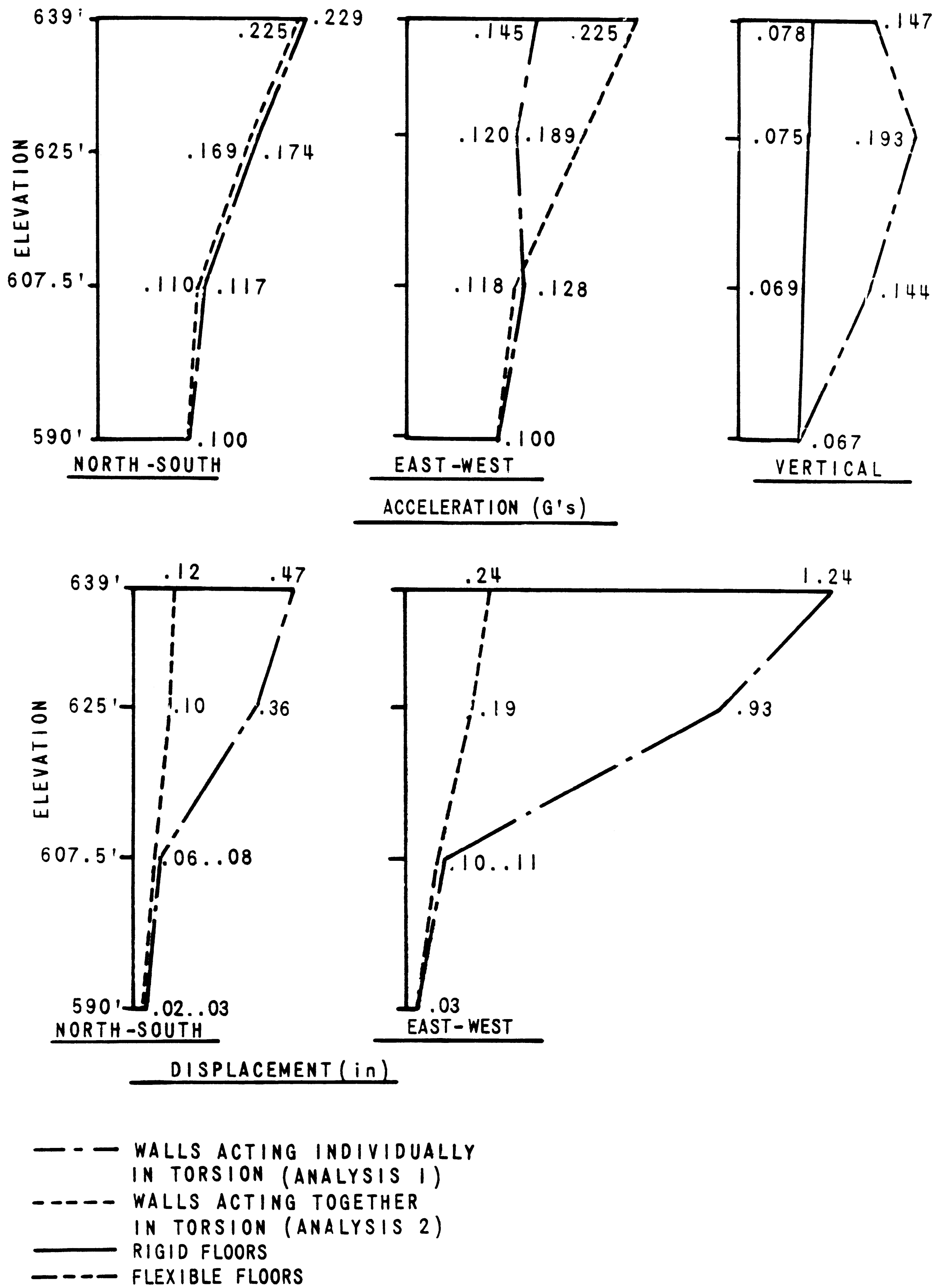
NOTES:

1. B=38'-6" N-S MODEL
   B=125'-0" E-W MODEL
2. CIRCLES REPRESENT LUMPED MASS LOCATIONS

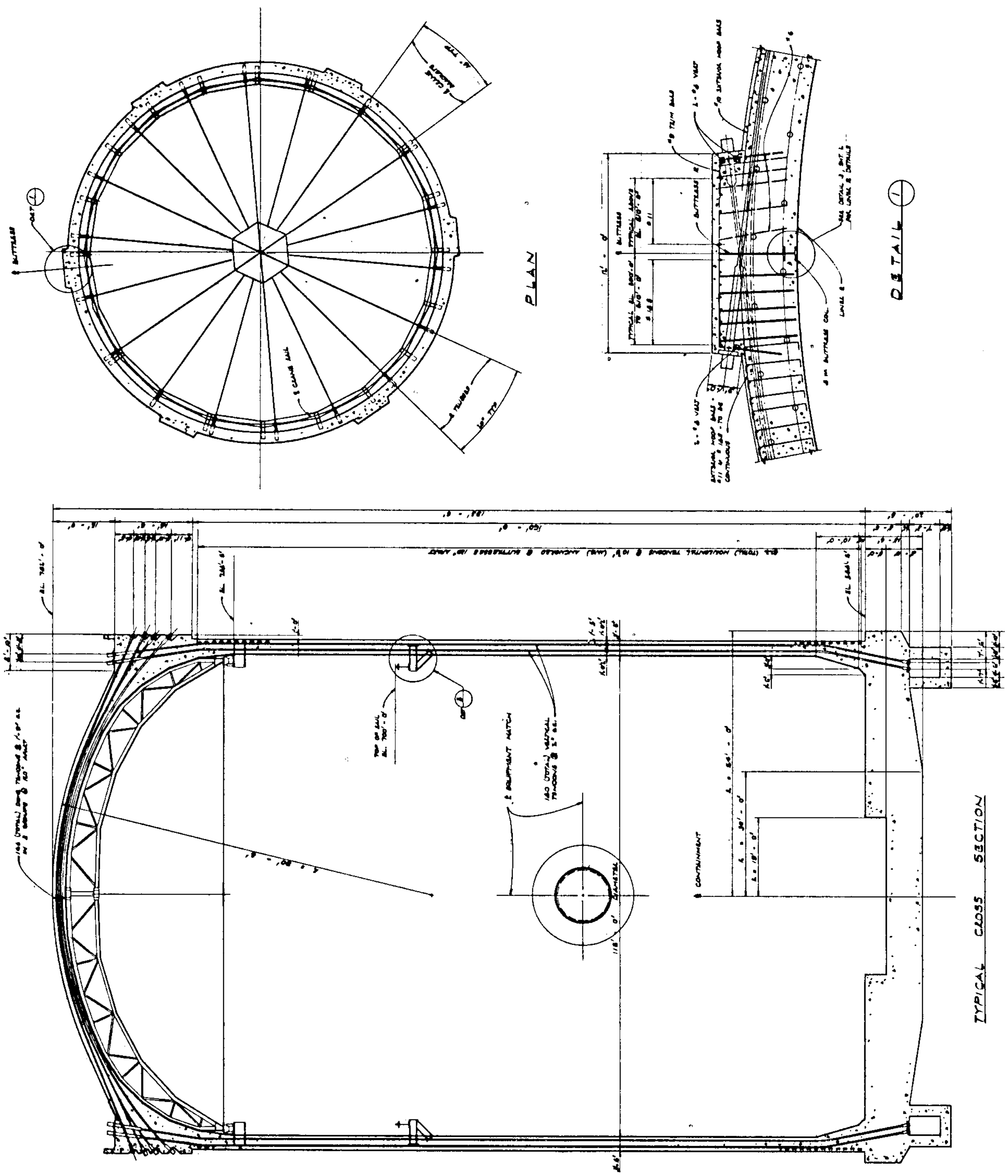
**AUXILIARY BUILDING TSC/EER ADDITION
DYNAMIC MODEL**



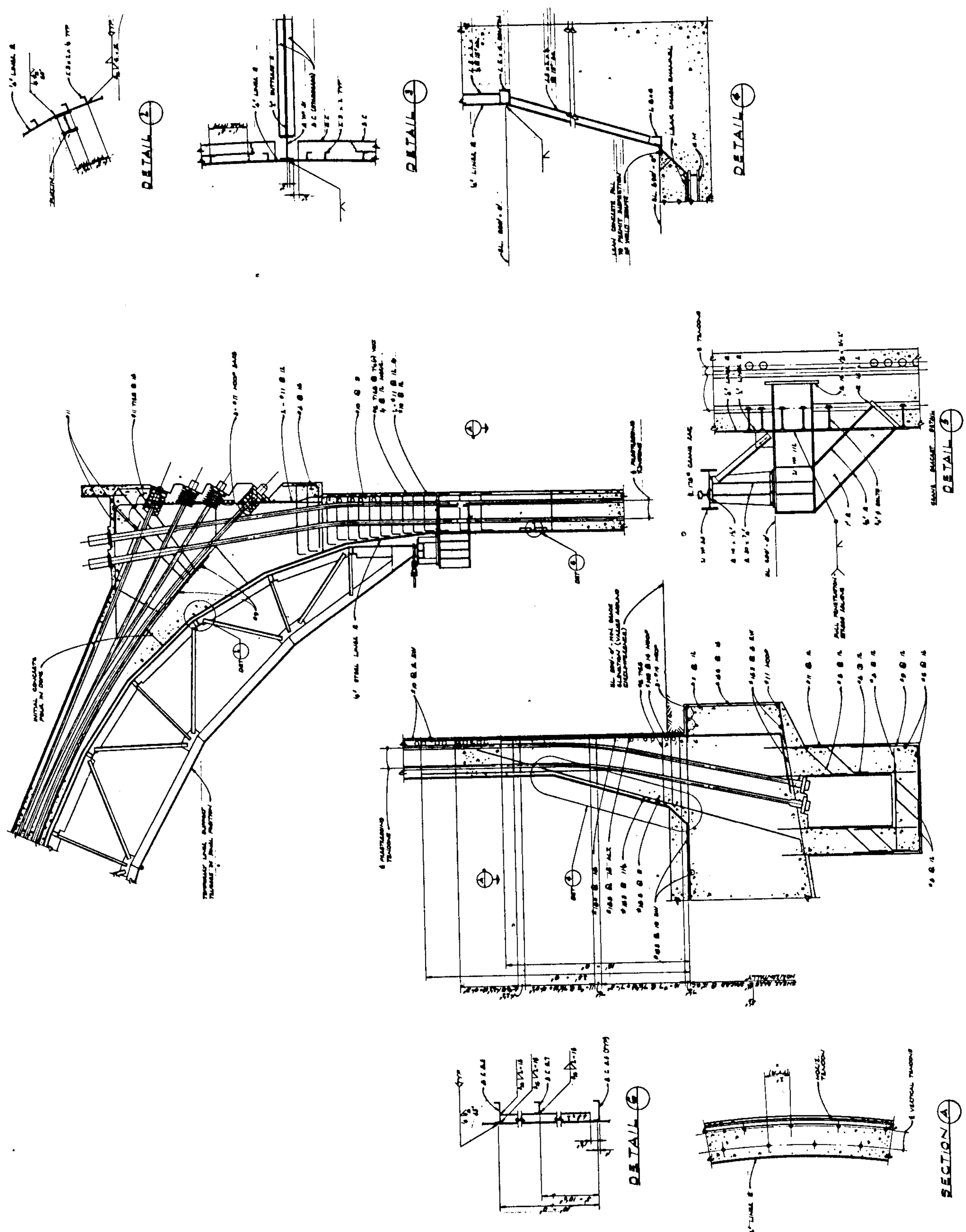
AUXILIARY BUILDING TSC/EER ADDITION
MAXIMUM SEISMIC RESPONSES (OBE)



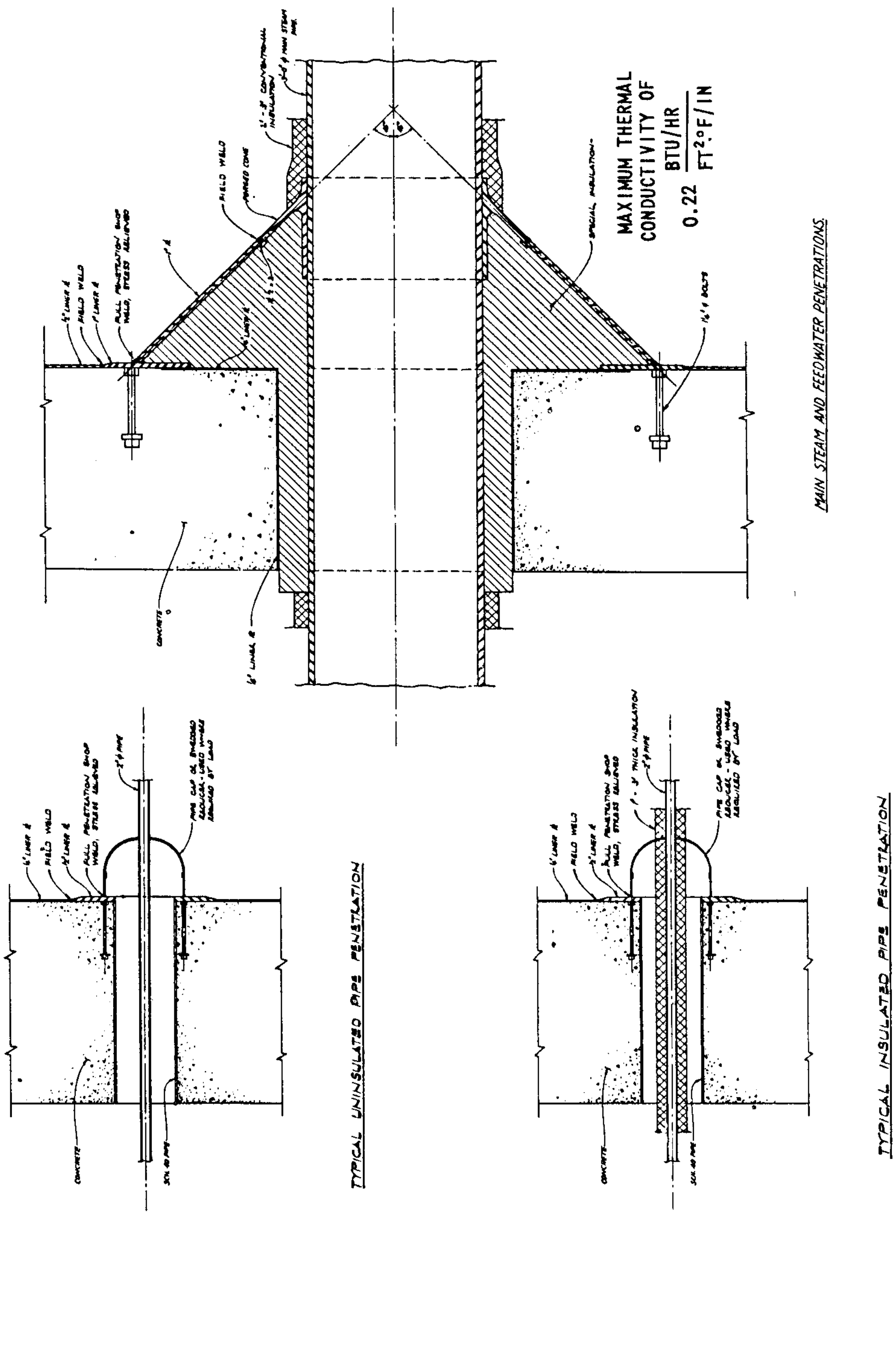
CONTAINMENT STRUCTURE
TYPICAL CROSS SECTION



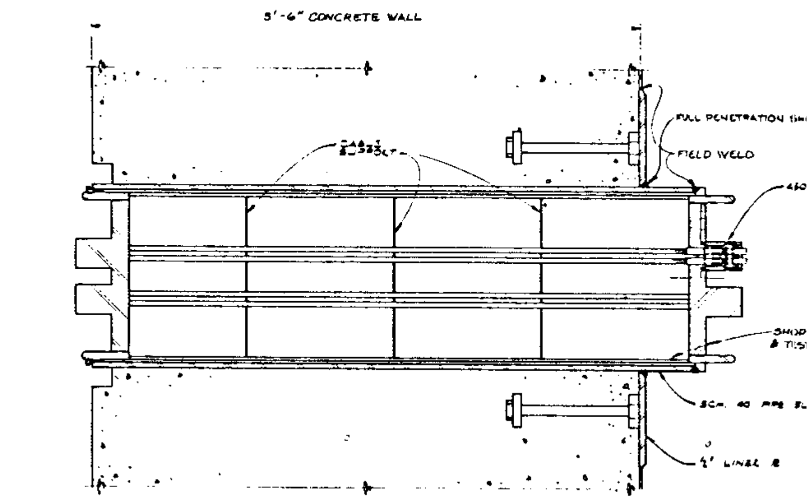
CONTAINMENT STRUCTURE
TYPICAL CROSS SECTION



CONTAINMENT STRUCTURE
TYPICAL PIPING PENETRATIONS

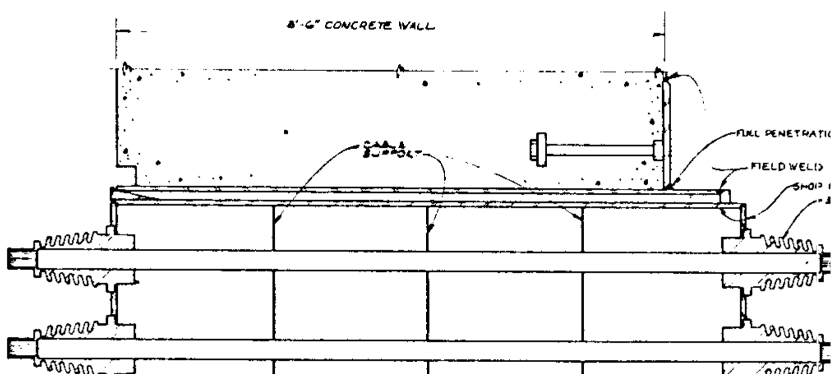


CONTAINMENT STRUCTURE
TYPICAL ELECTRICAL PENETRATIONS

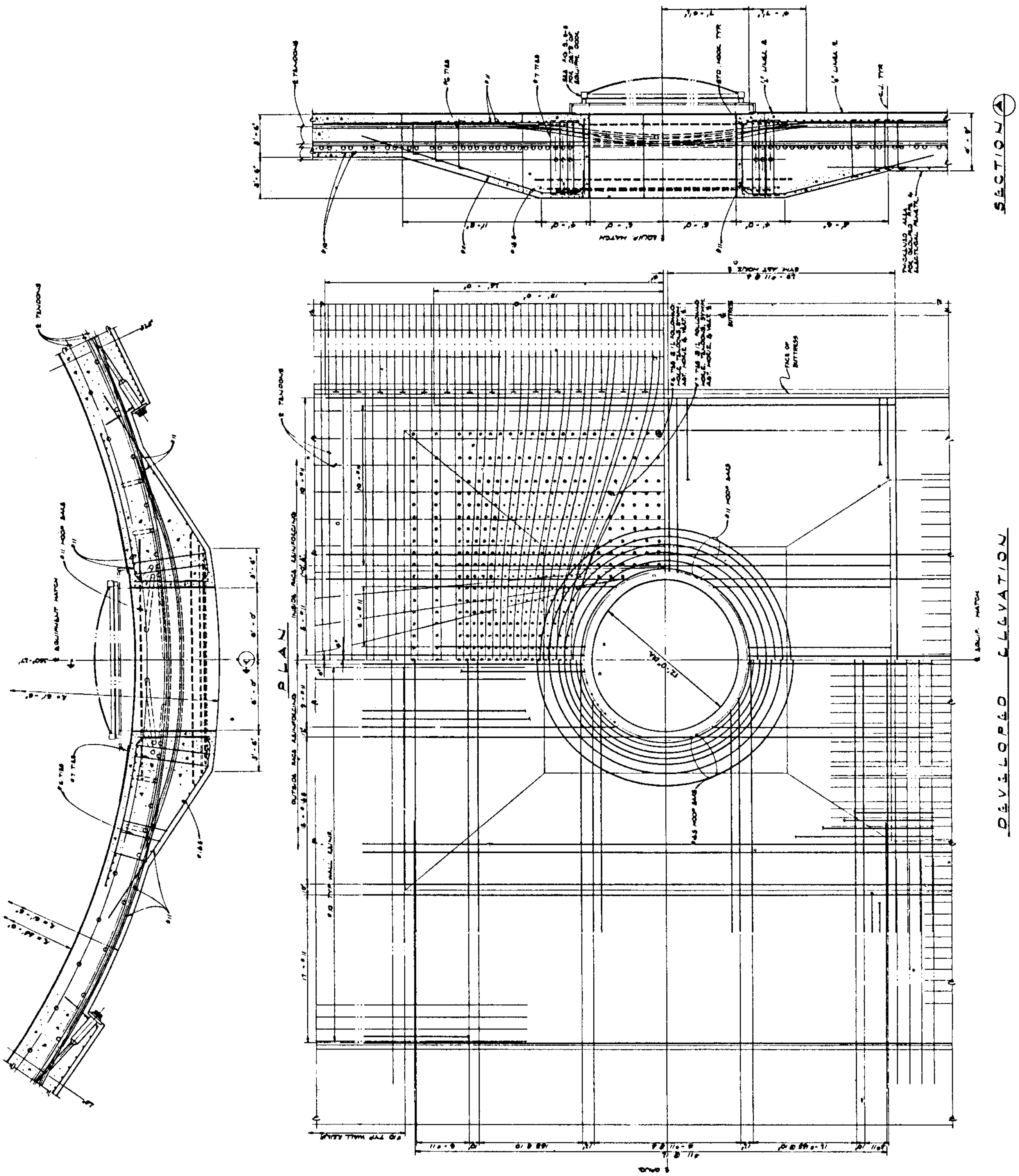


SECTIONAL ELEVATION

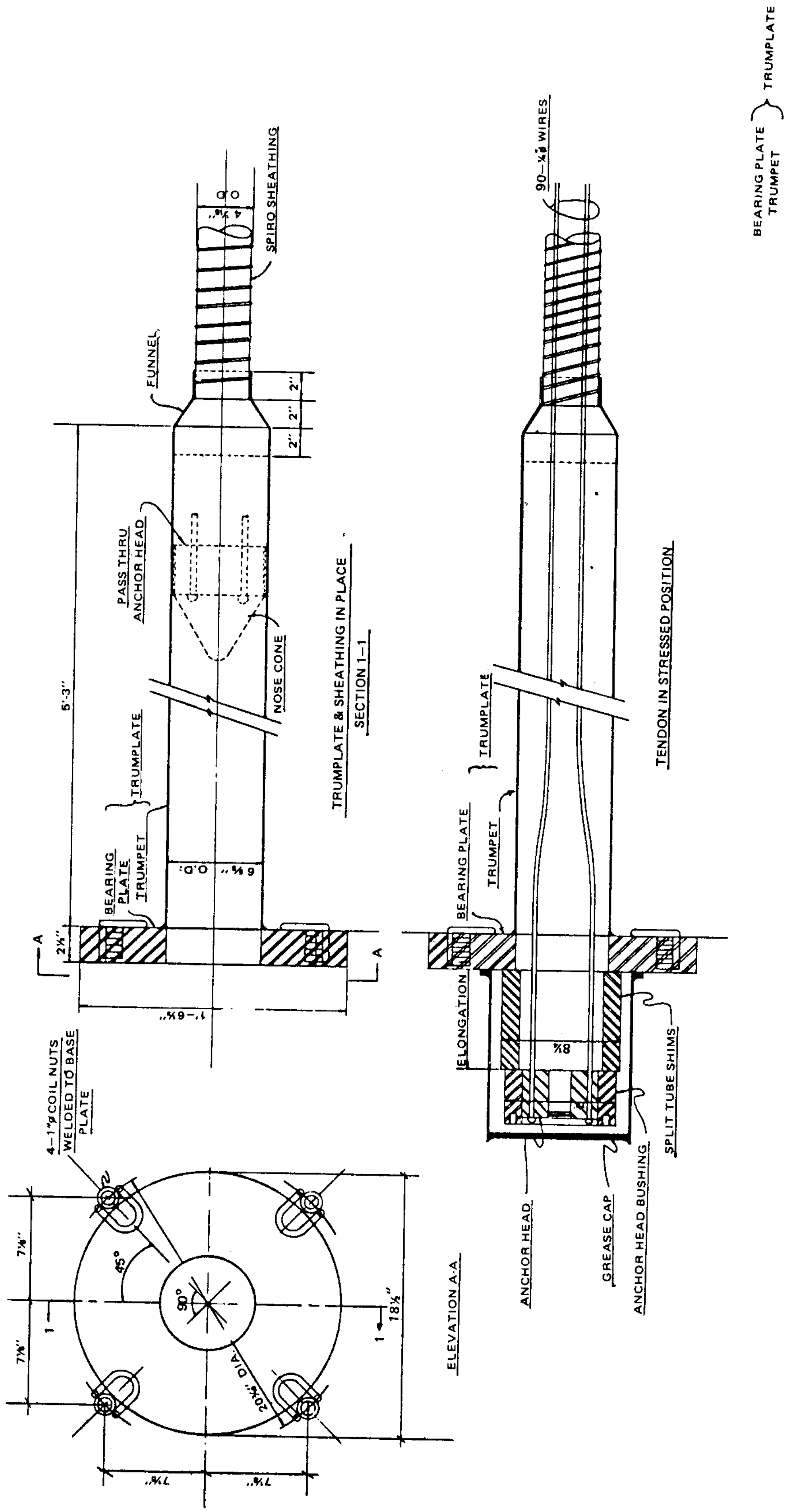
CONTROL & 480V POWER ELECTRICAL PENETRATION



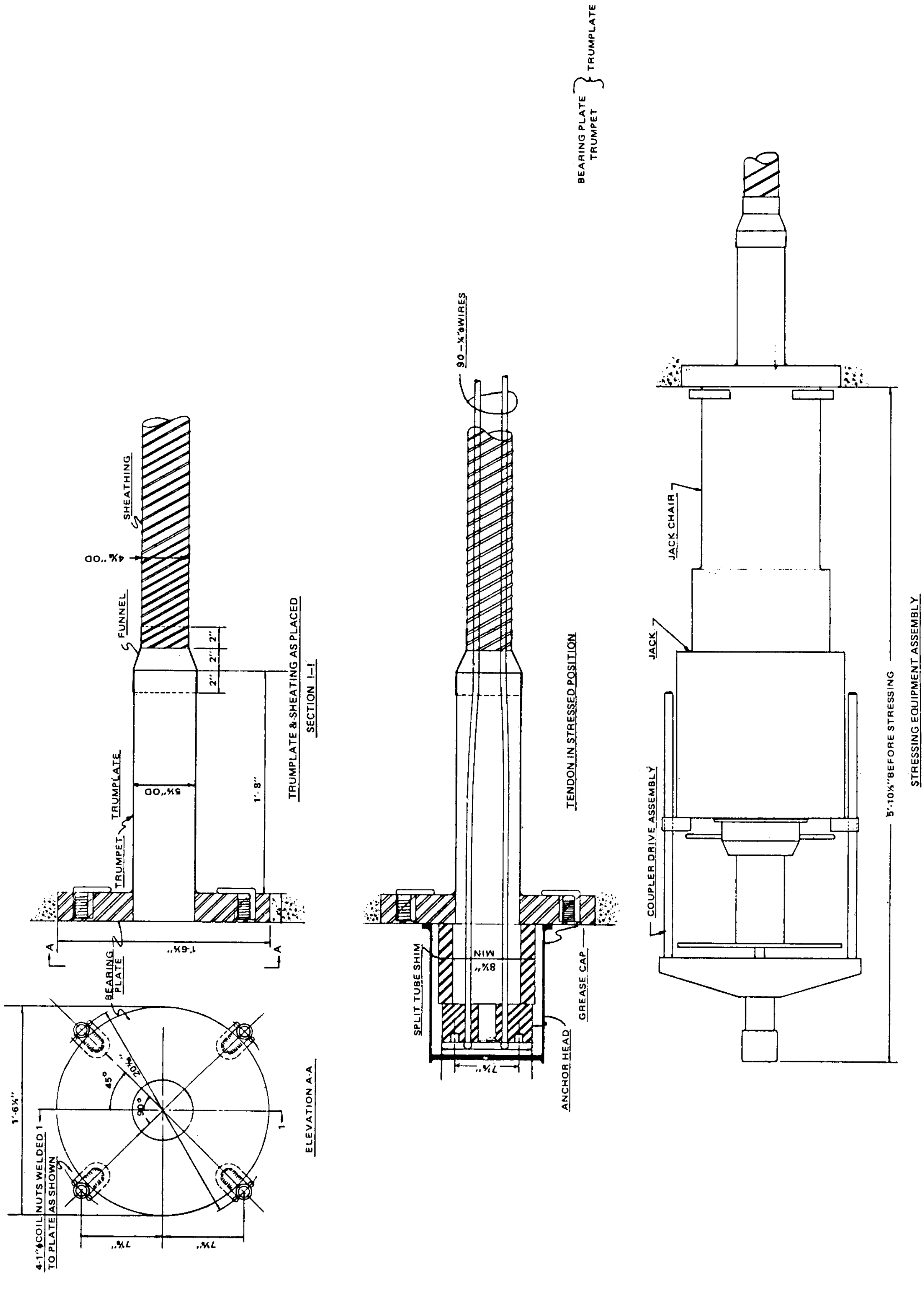
CONTAINMENT STRUCTURE
REINFORCING AND TENDON PLAN ADJACENT TO EQUIPMENT HATCH



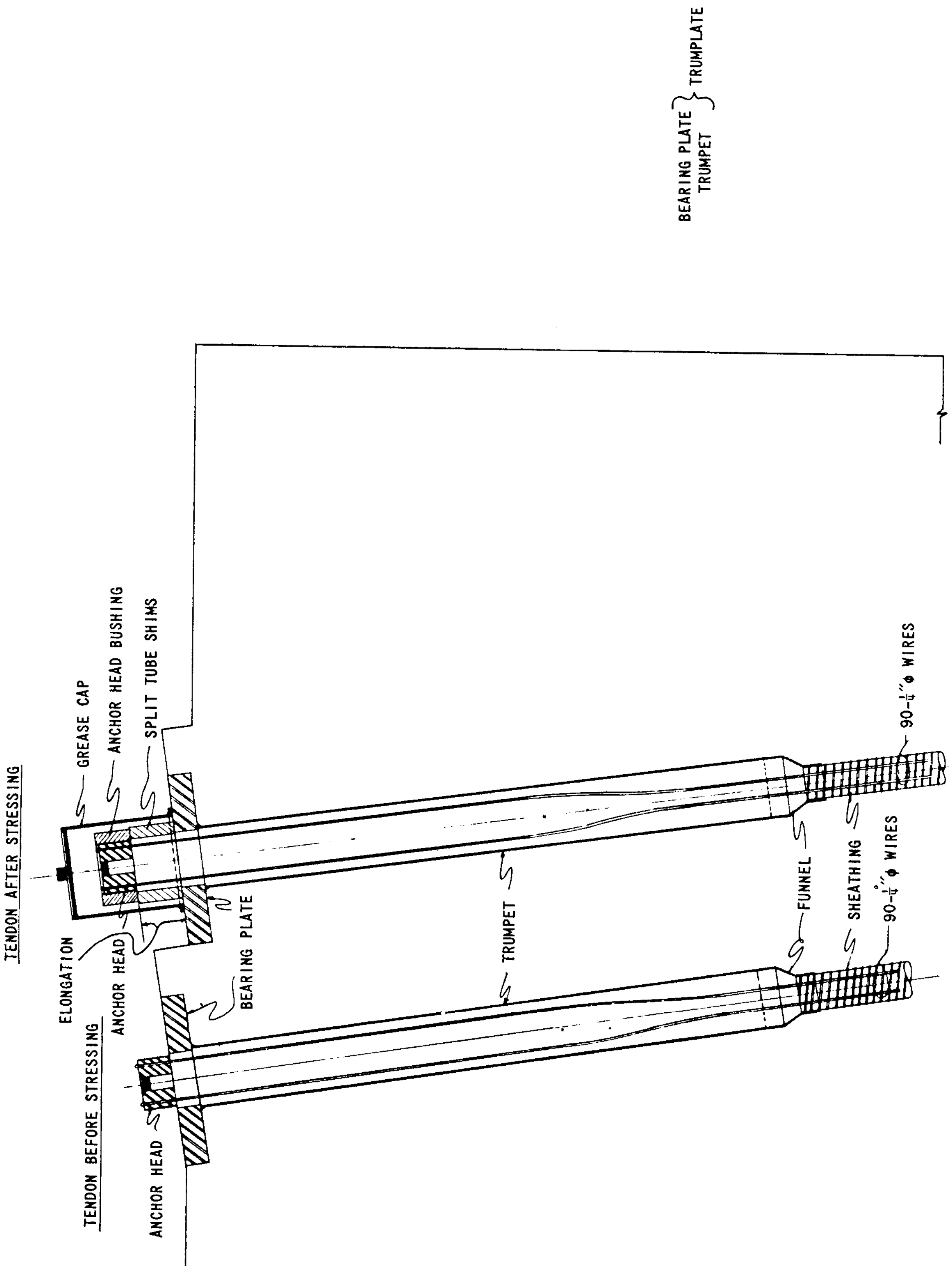
CONTAINMENT STRUCTURE
TENDON HARDWARE ASSEMBLY, HORIZONTAL AND DOME TENDONS, SHOP BUTTONHEADED END



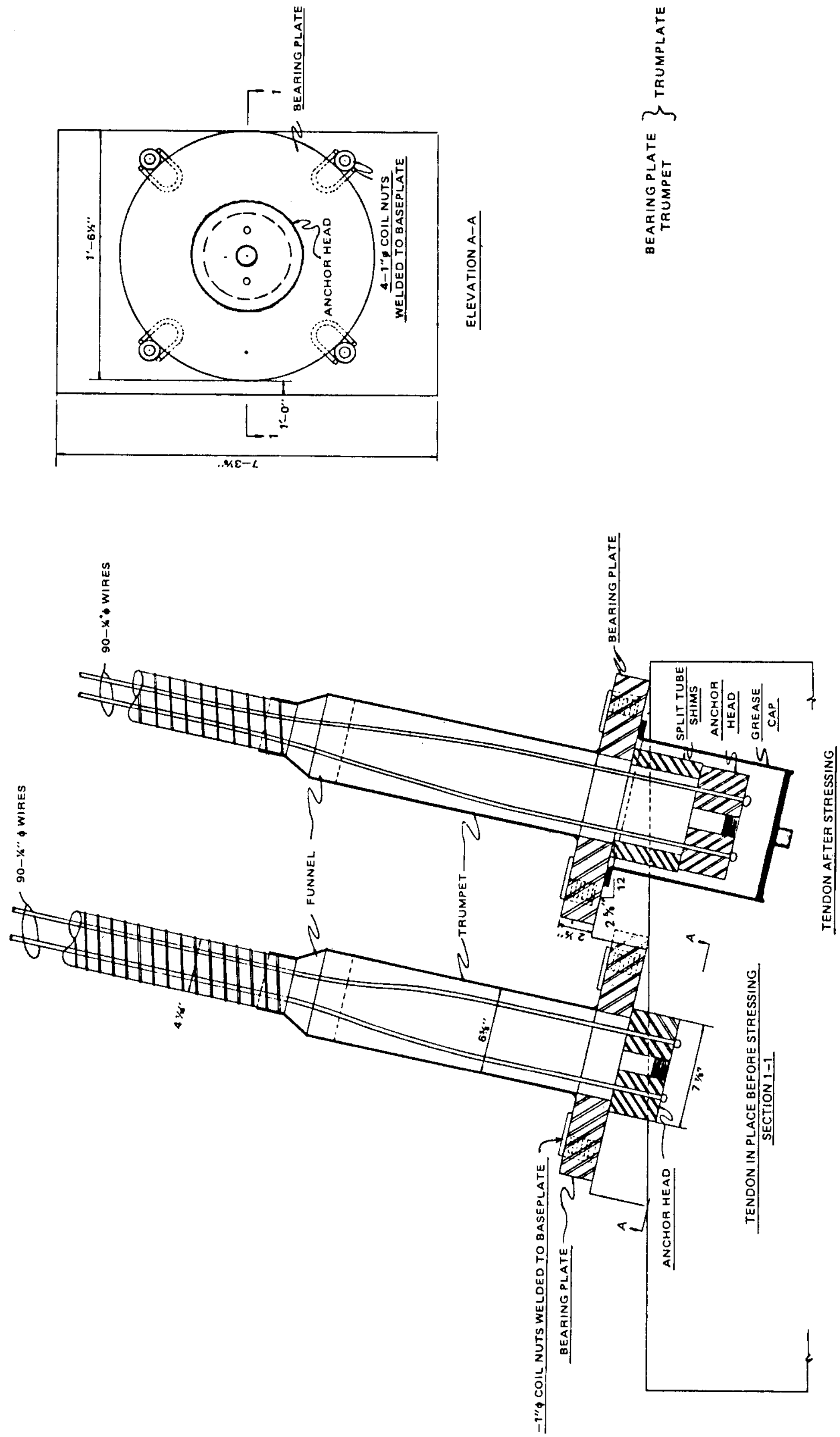
CONTAINMENT STRUCTURE
TENDON HARDWARE ASSEMBLY, HORIZONTAL AND DOME TENDONS, FIELD BUTTONHEADED END



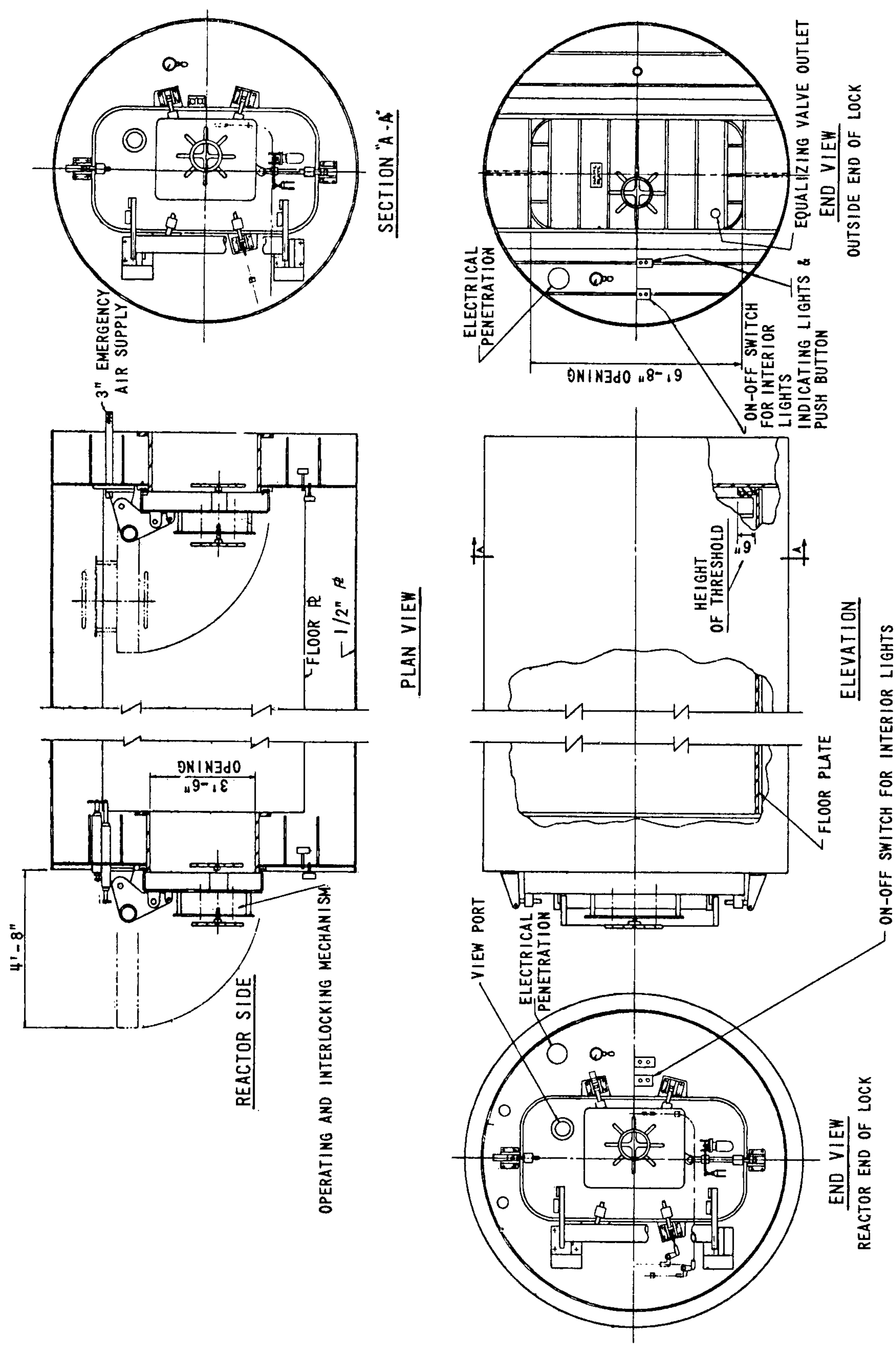
CONTAINMENT STRUCTURE
TENDON HARDWARE ASSEMBLY, VERTICAL TENDONS, SHOP BUTTONHEADED END



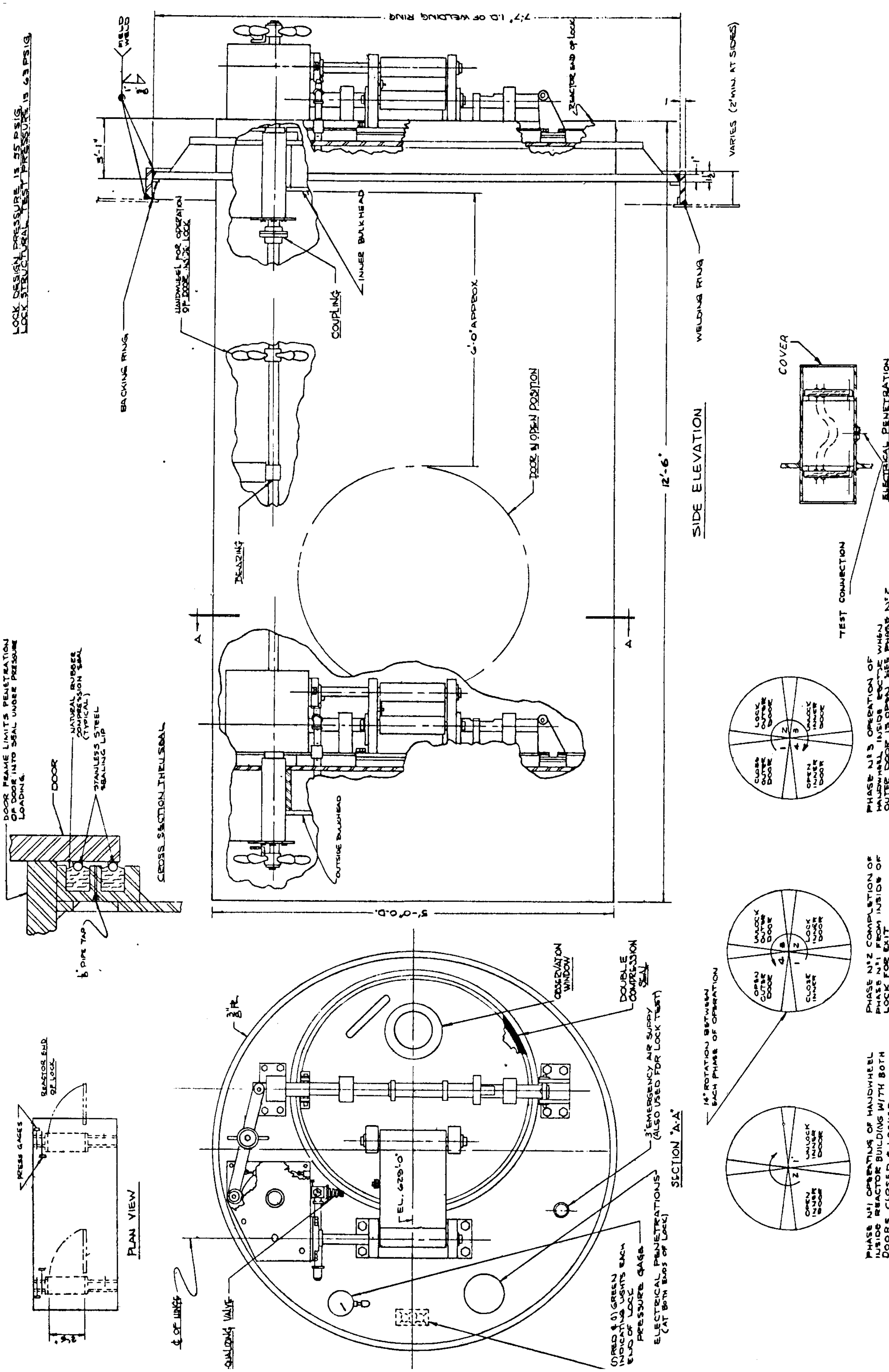
CONTAINMENT STRUCTURE
TENDON HARDWARE ASSEMBLY, VERTICAL TENDONS, FIELD BUTTONHEADED END



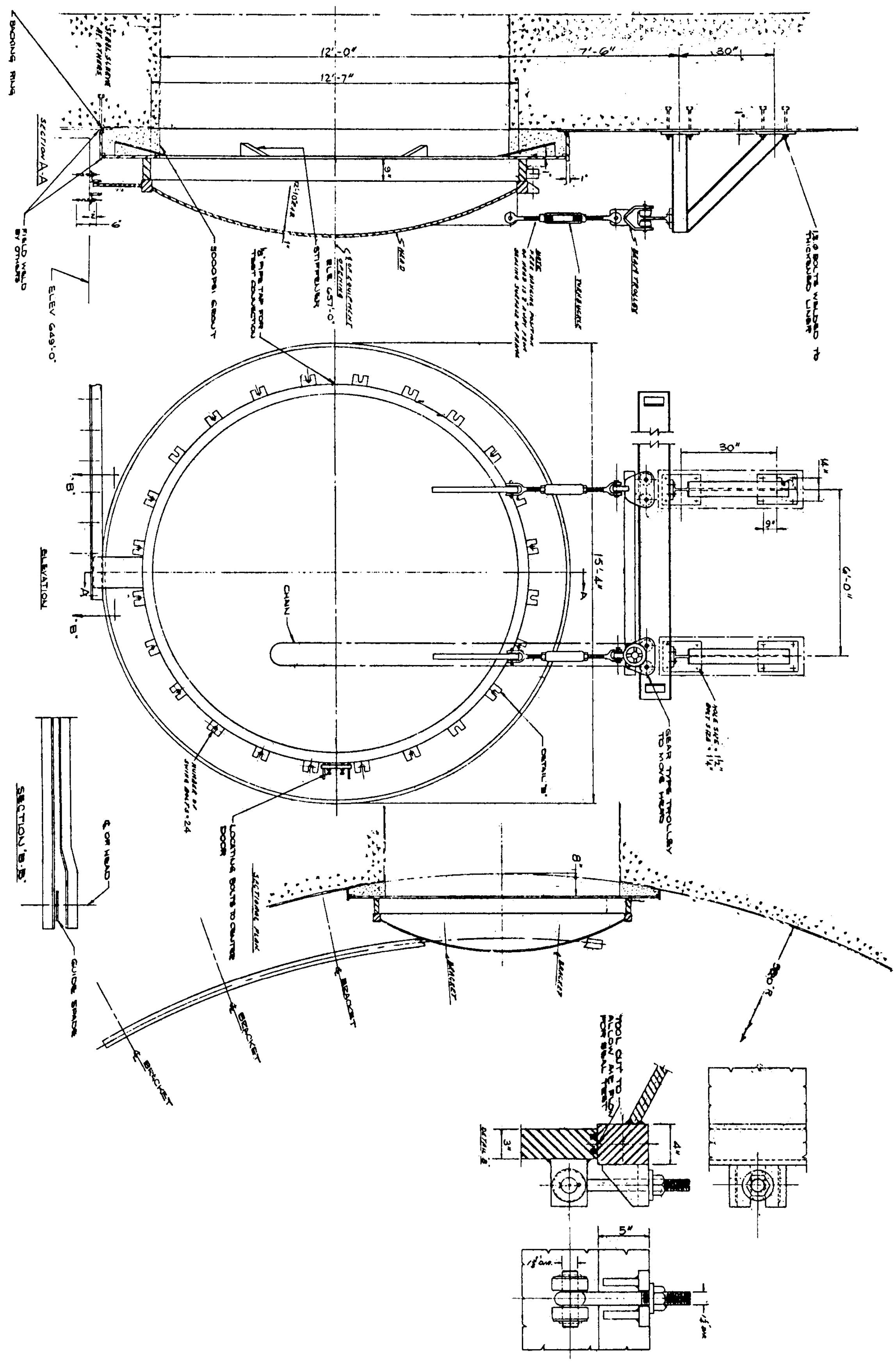
CONTAINMENT STRUCTURE
PERSONNEL AIR LOCK



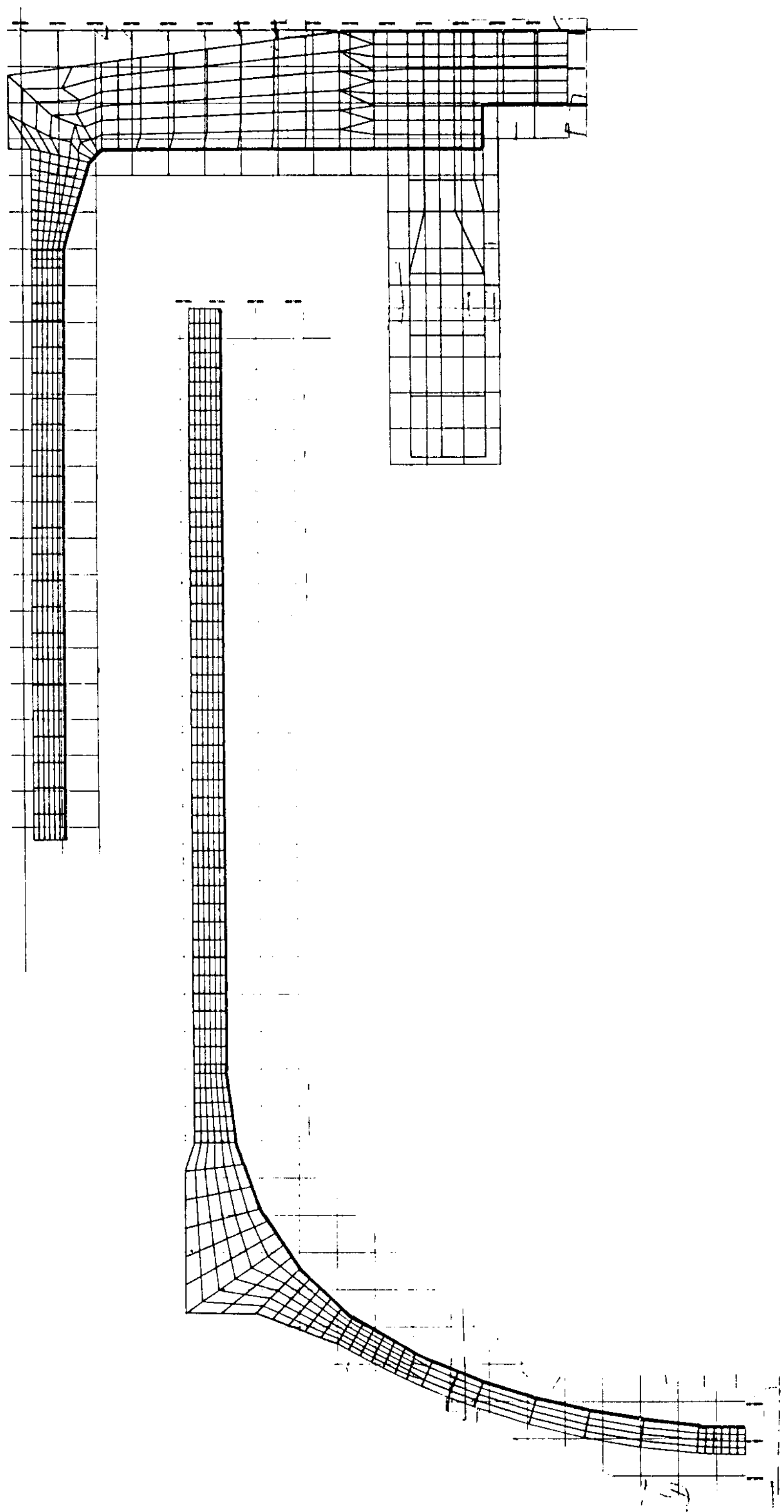
CONTAINMENT STRUCTURE
ESCAPE AIR LOCK



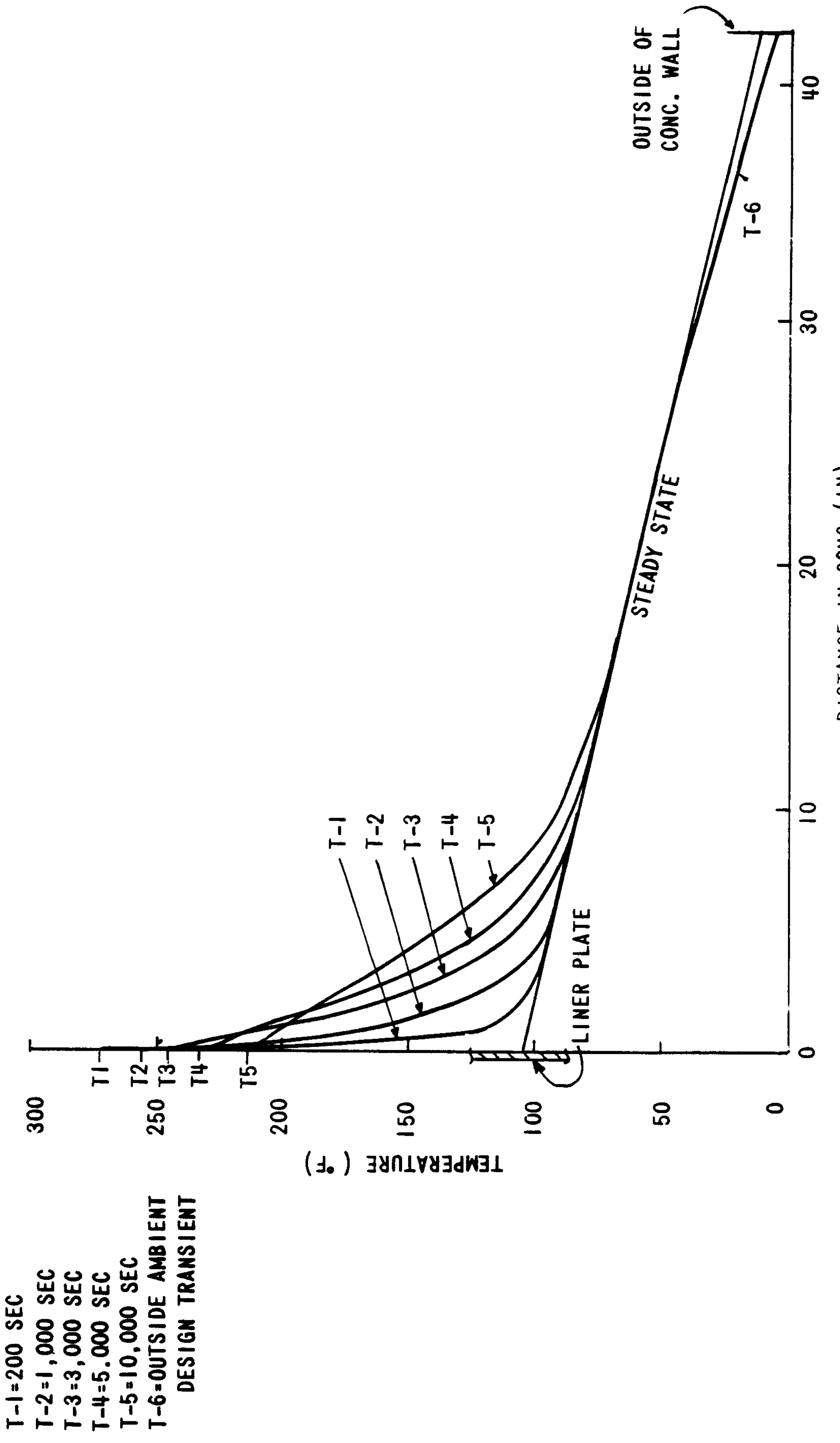
CONTAINMENT STRUCTURE
EOUIPMENT HATCH DOOR



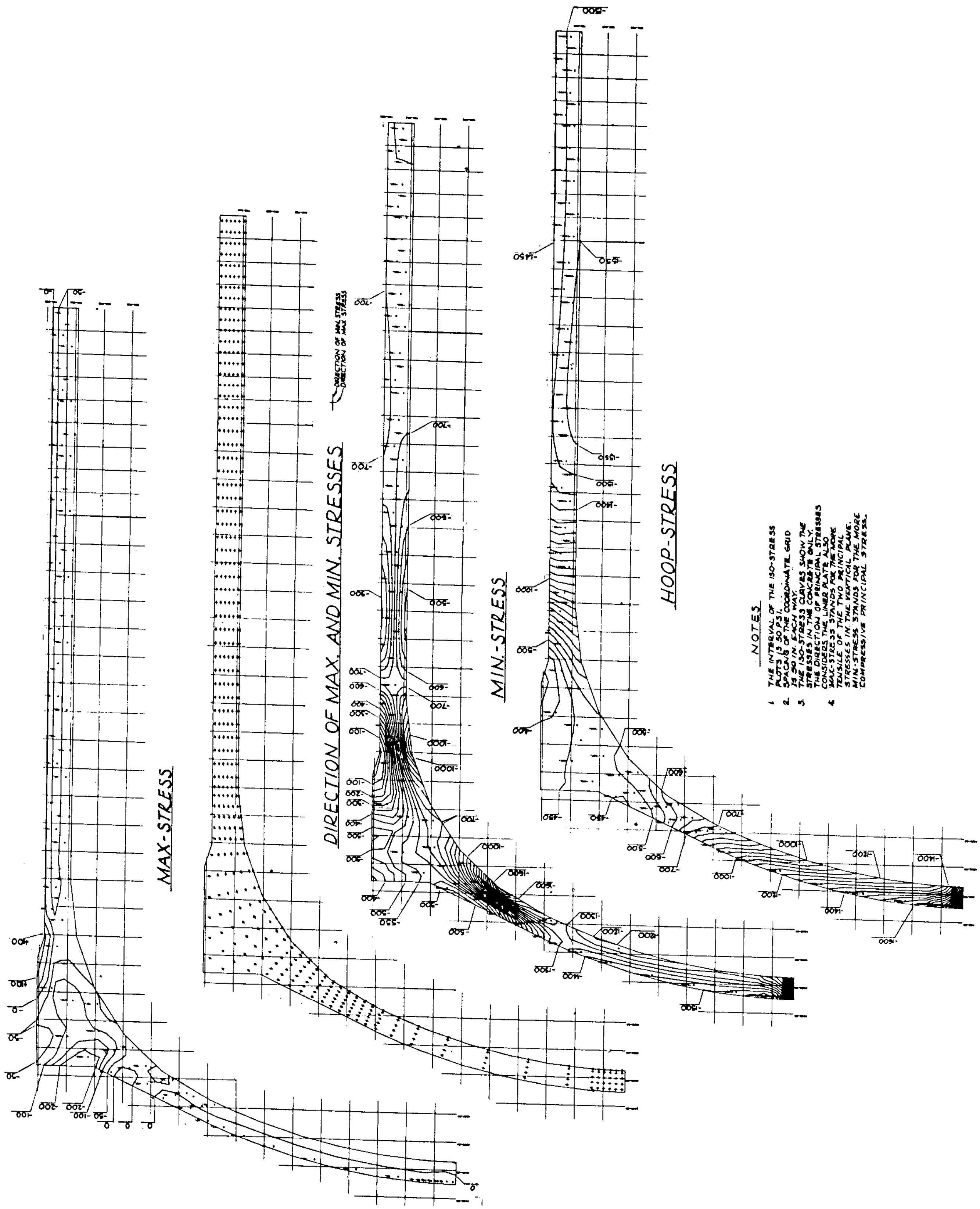
CONTAINMENT STRUCTURE
FINITE ELEMENT MESH



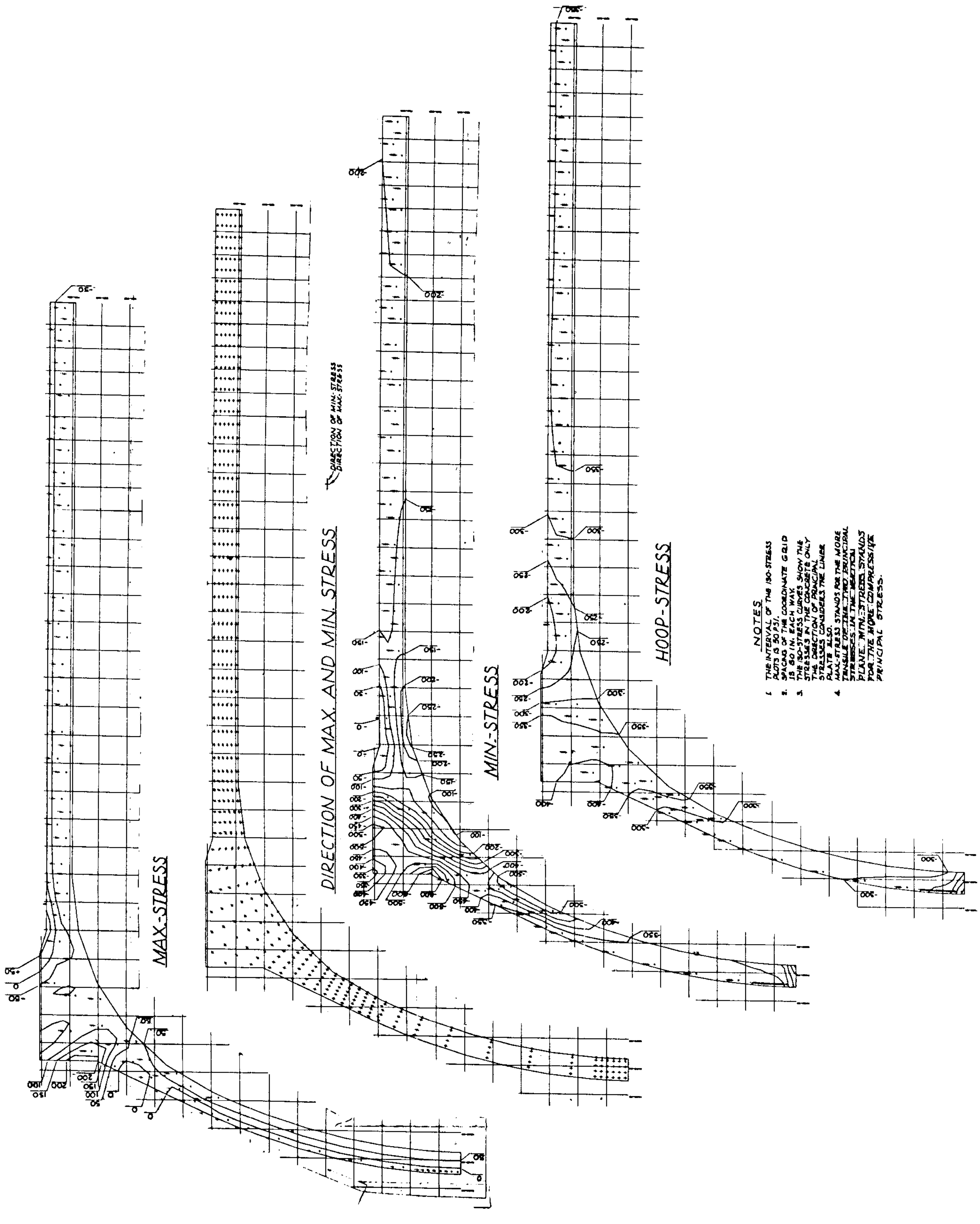
CONTAINMENT STRUCTURE
DBA THERMAL GRADIENTS ACROSS CONTAINMENT WALL, NO INSULATION



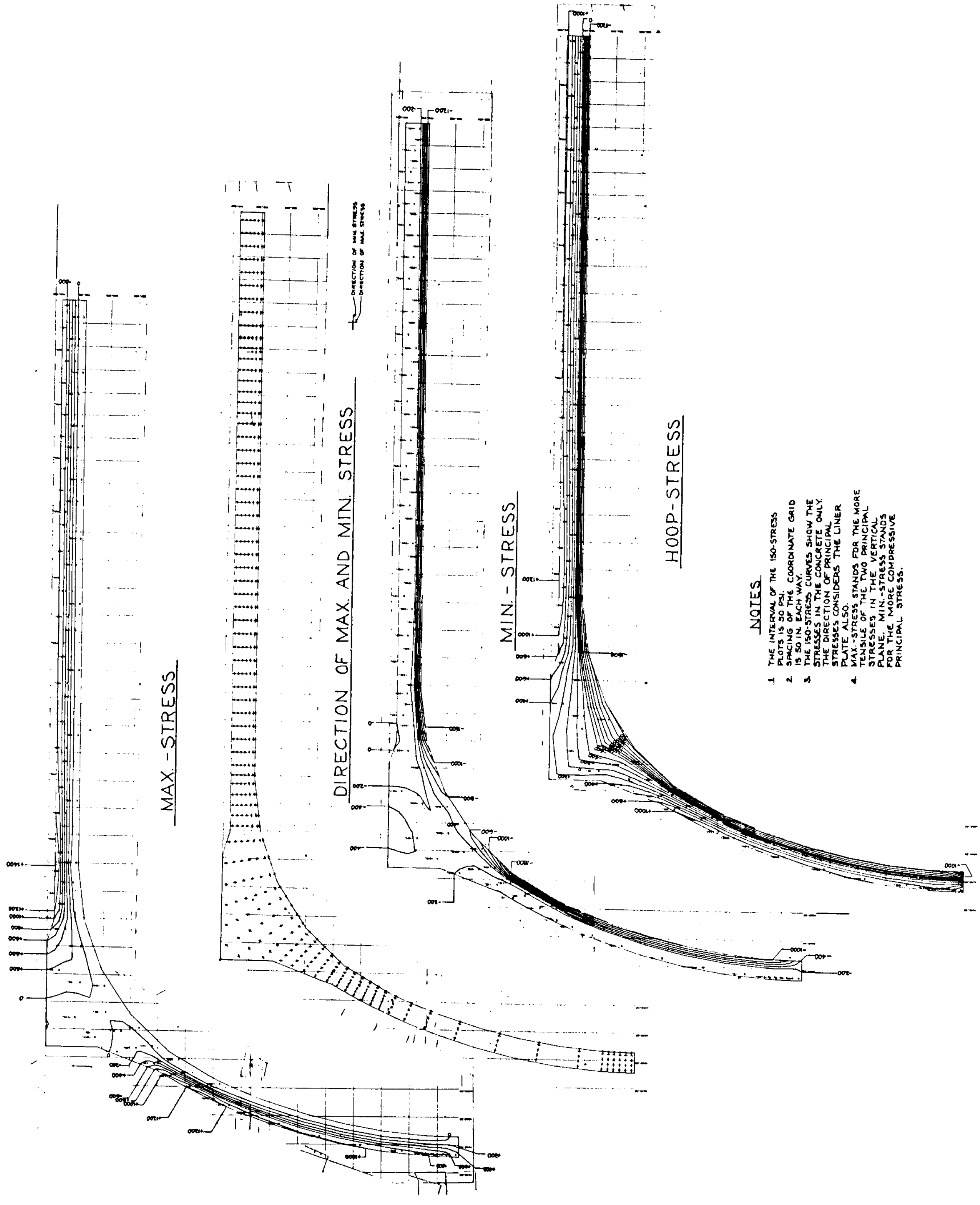
CONTAINMENT STRUCTURE
ISOSTRESS PLOT, DOME AND WALL
D + F_i



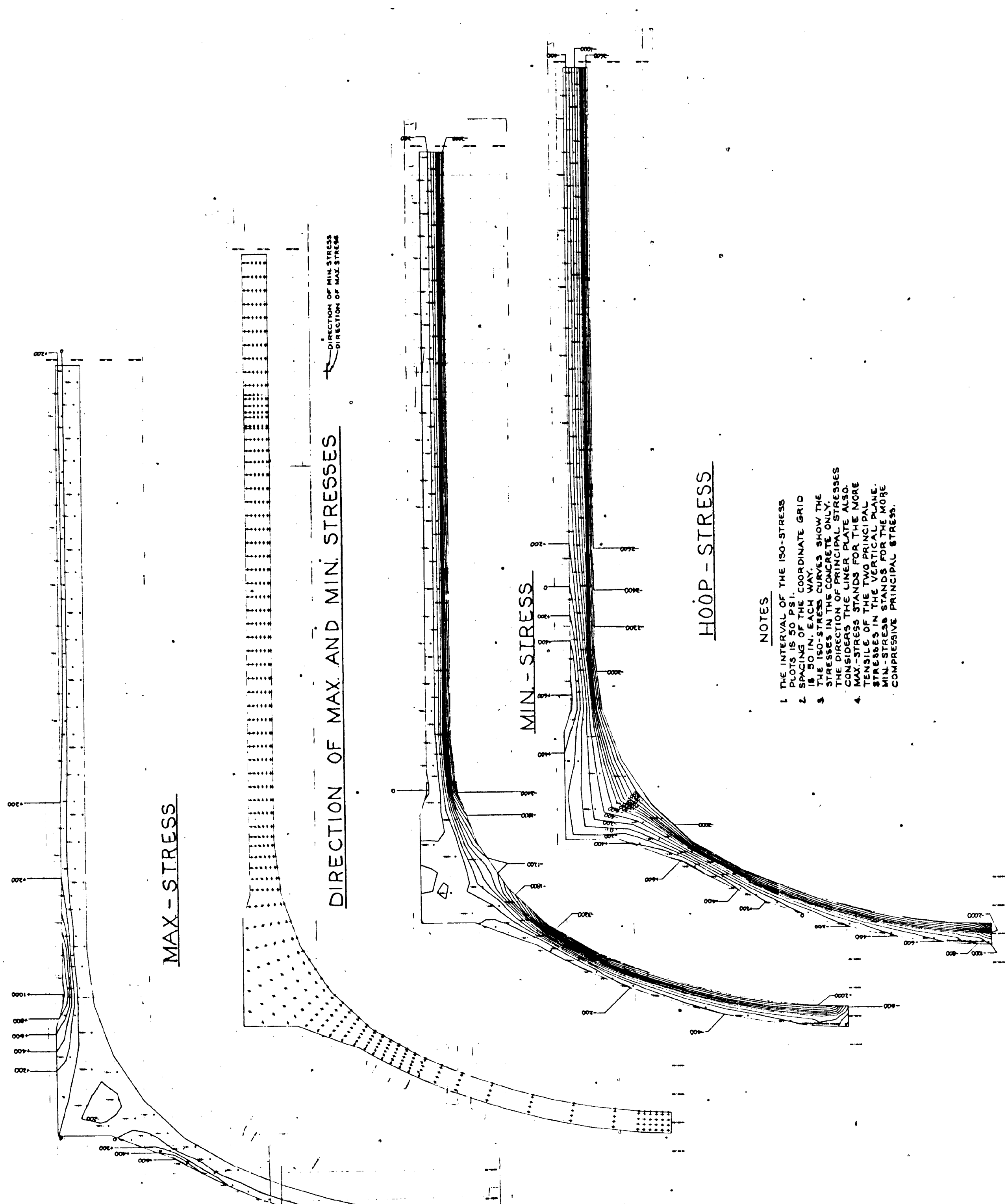
CONTAINMENT STRUCTURE
ISOSTRESS PLOT, DOME AND WALL
$D + F_f + 1.15P$



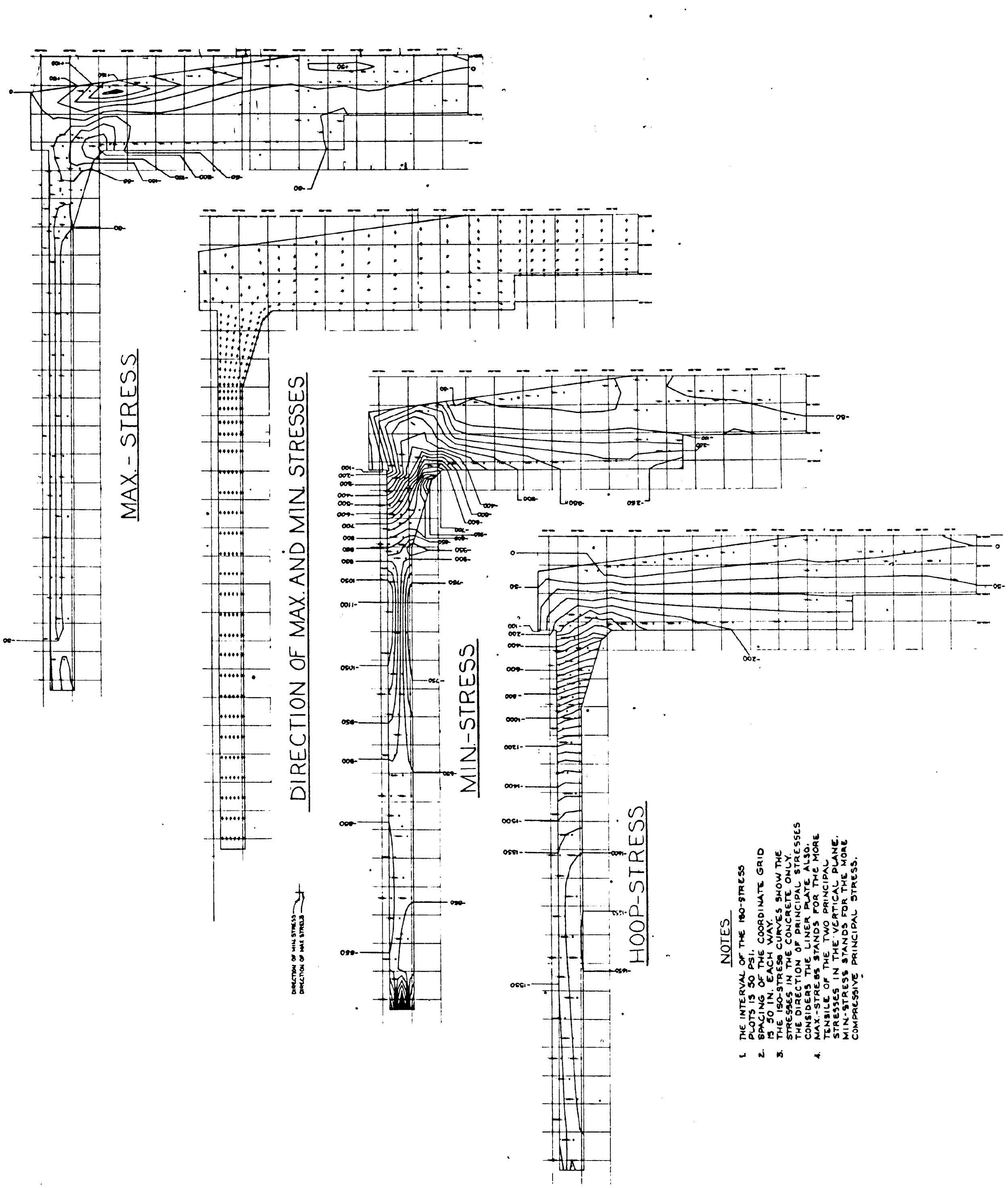
CONTAINMENT STRUCTURE
ISOSTRESS PLOT, DOME AND WALL
$D + F_f + 1.5P + T_a$



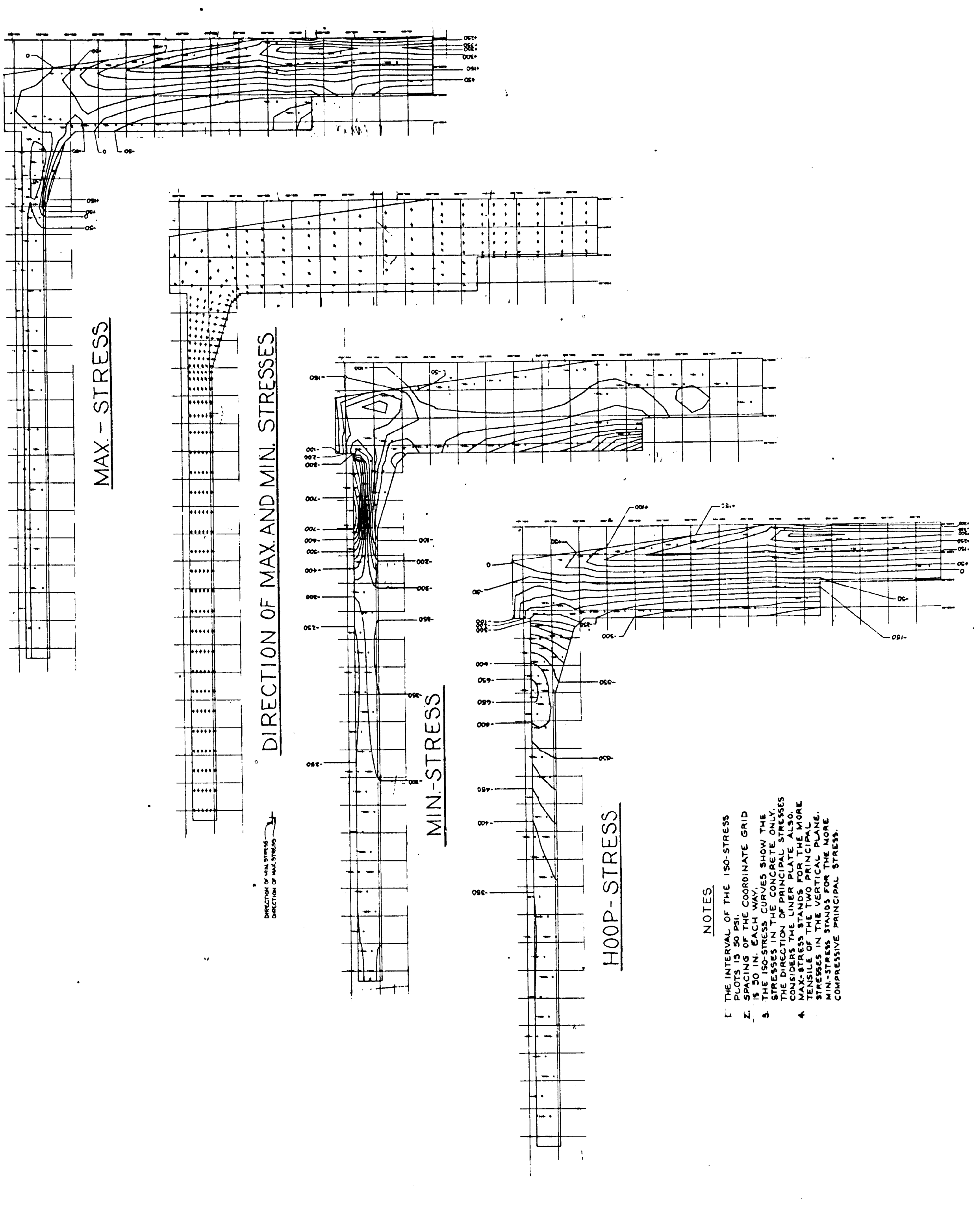
CONTAINMENT STRUCTURE
ISOSTRESS PLOT, DOME AND WALL
$D + F_f + T_a$



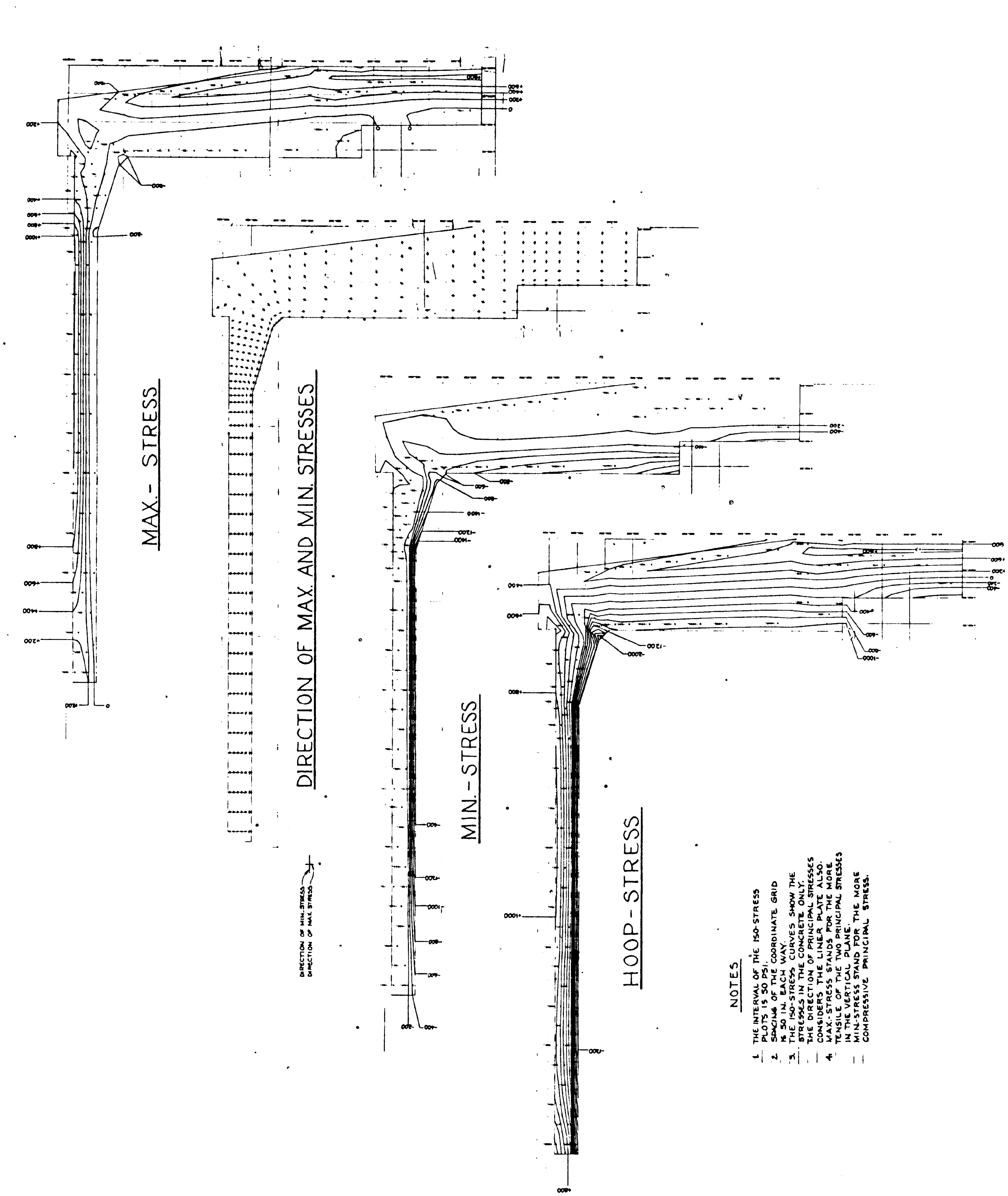
CONTAINMENT STRUCTURE
ISOSTRESS PLOT, WALL AND BASE SLAB
$D + F_i$



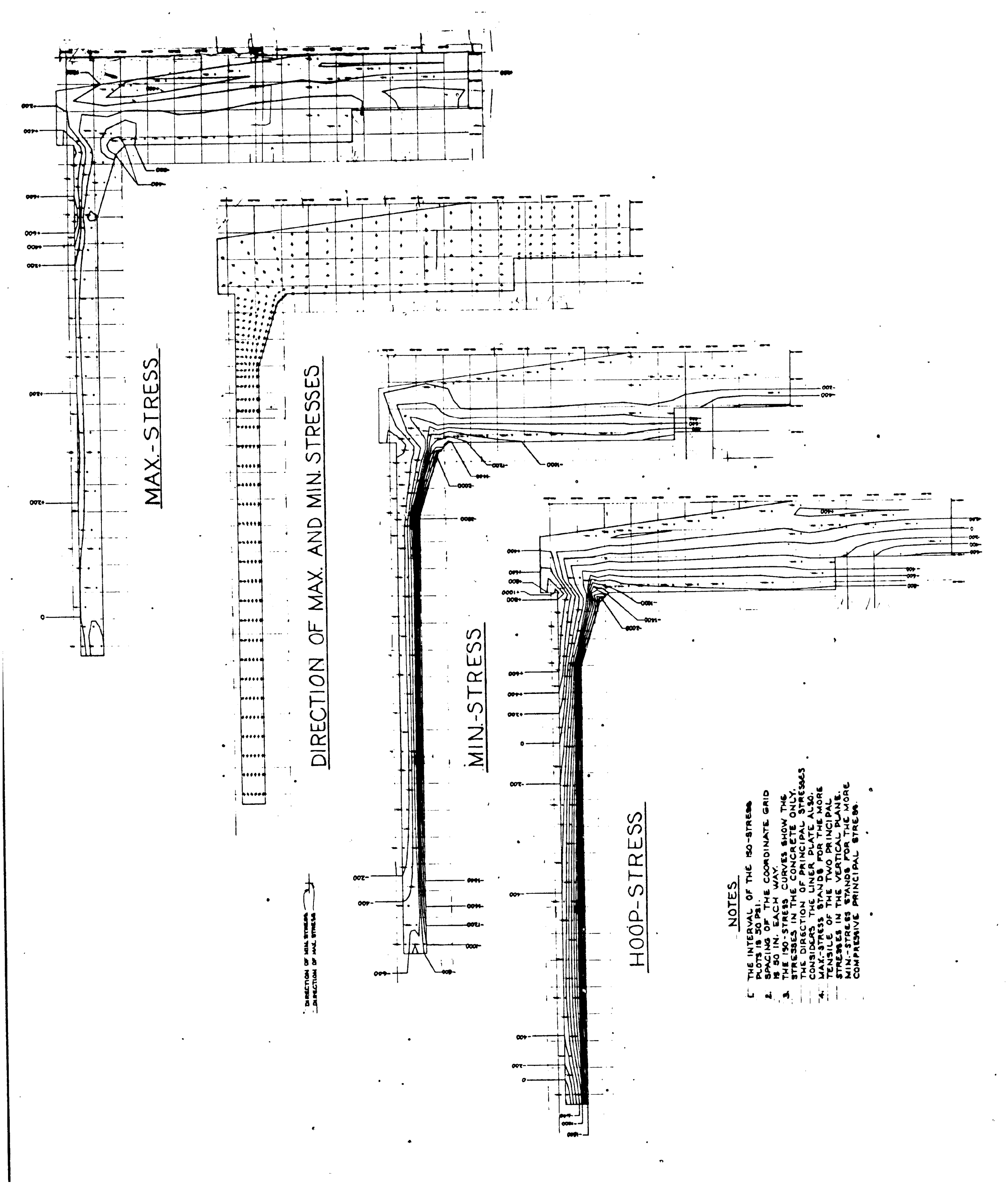
CONTAINMENT STRUCTURE
ISOSTRESS PLOT, WALL AND BASE SLAB
$D + F_f + 1.15P$



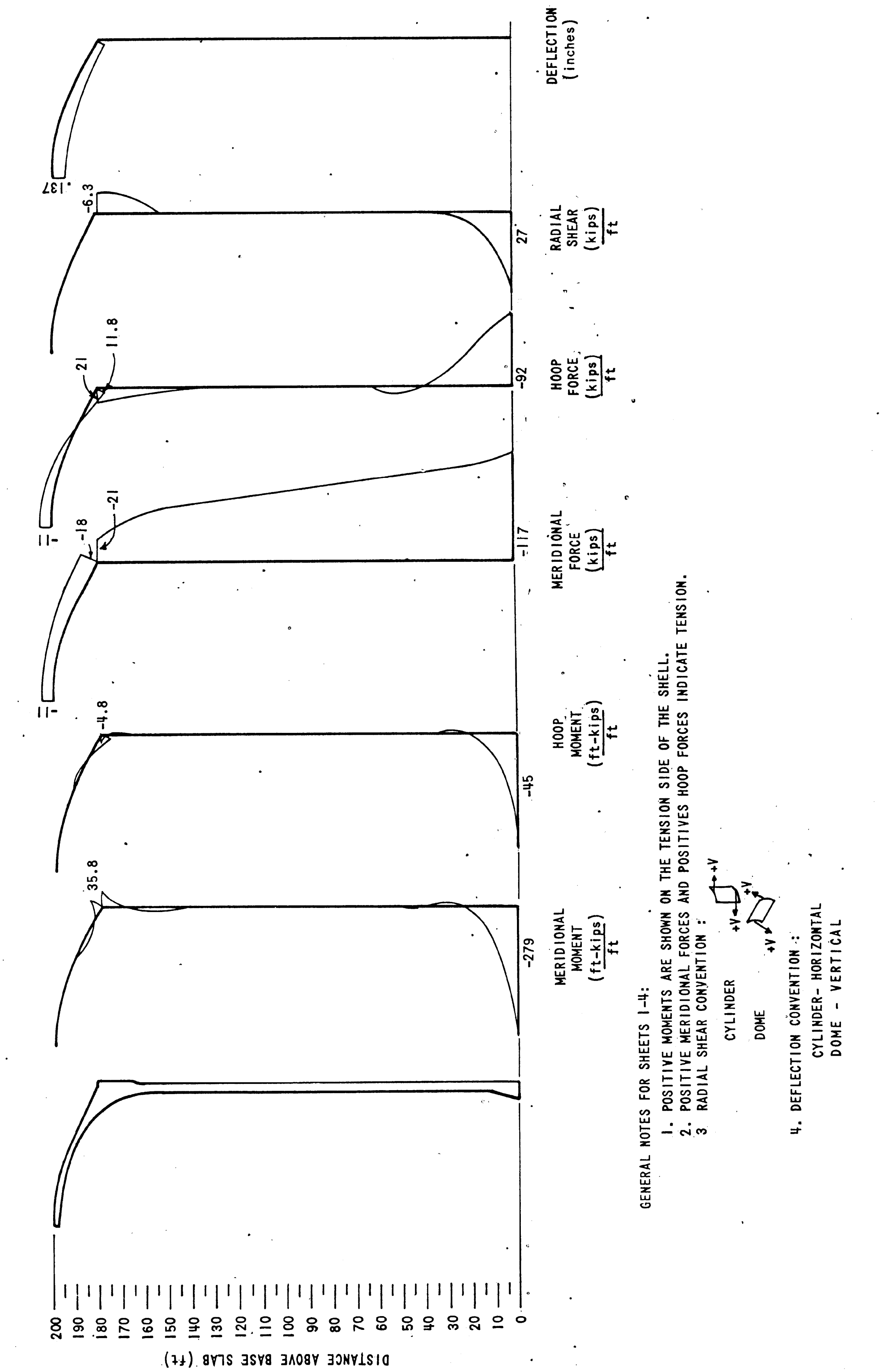
CONTAINMENT STRUCTURE
ISOSTRESS PLOT, WALL AND BASE SLAB
$D + F_f + 1.5\ P + T_a$



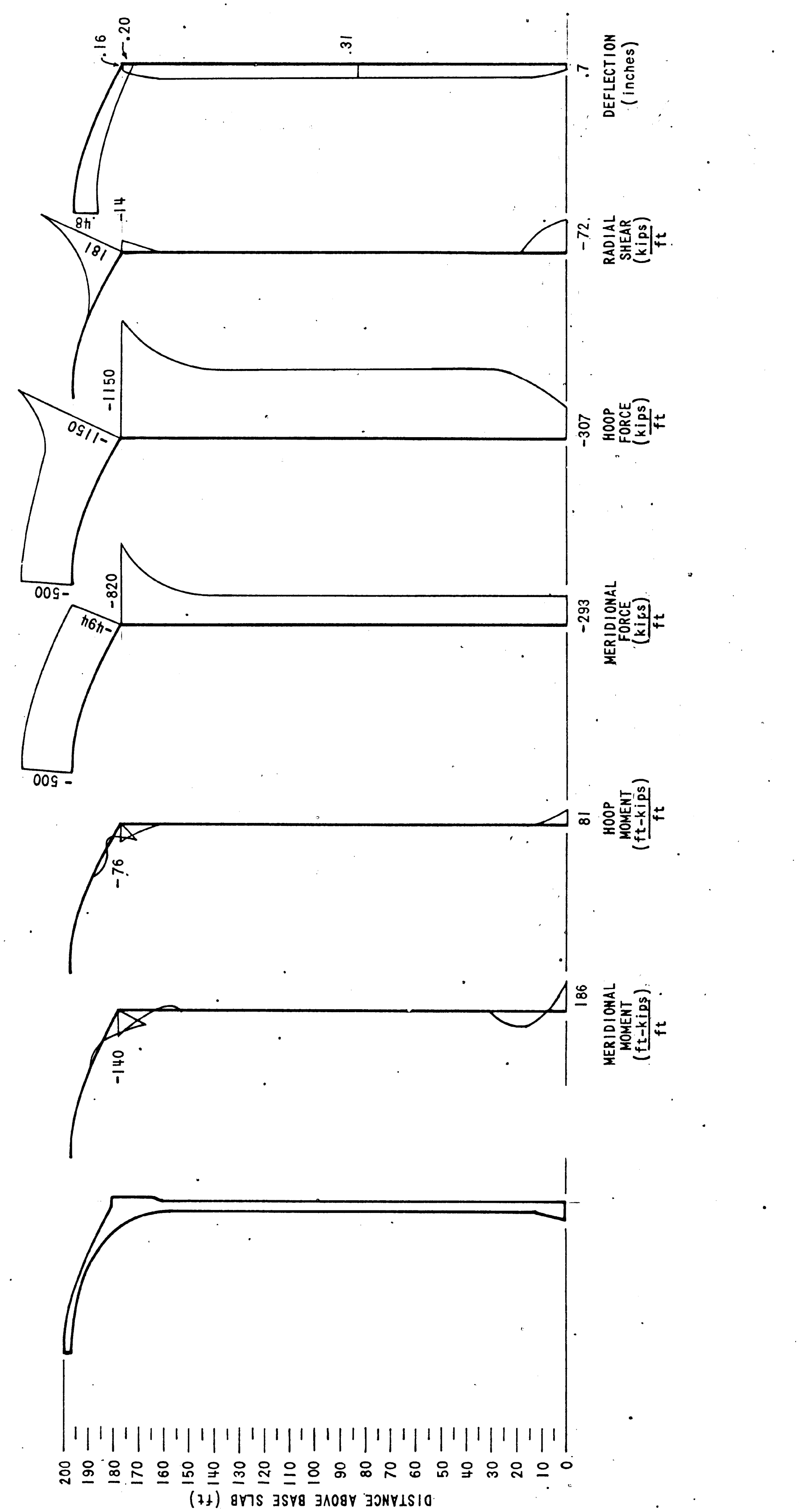
CONTAINMENT STRUCTURE
ISOSTRESS PLOT, WALL AND BASE SLAB
$D + F_f + T_a$



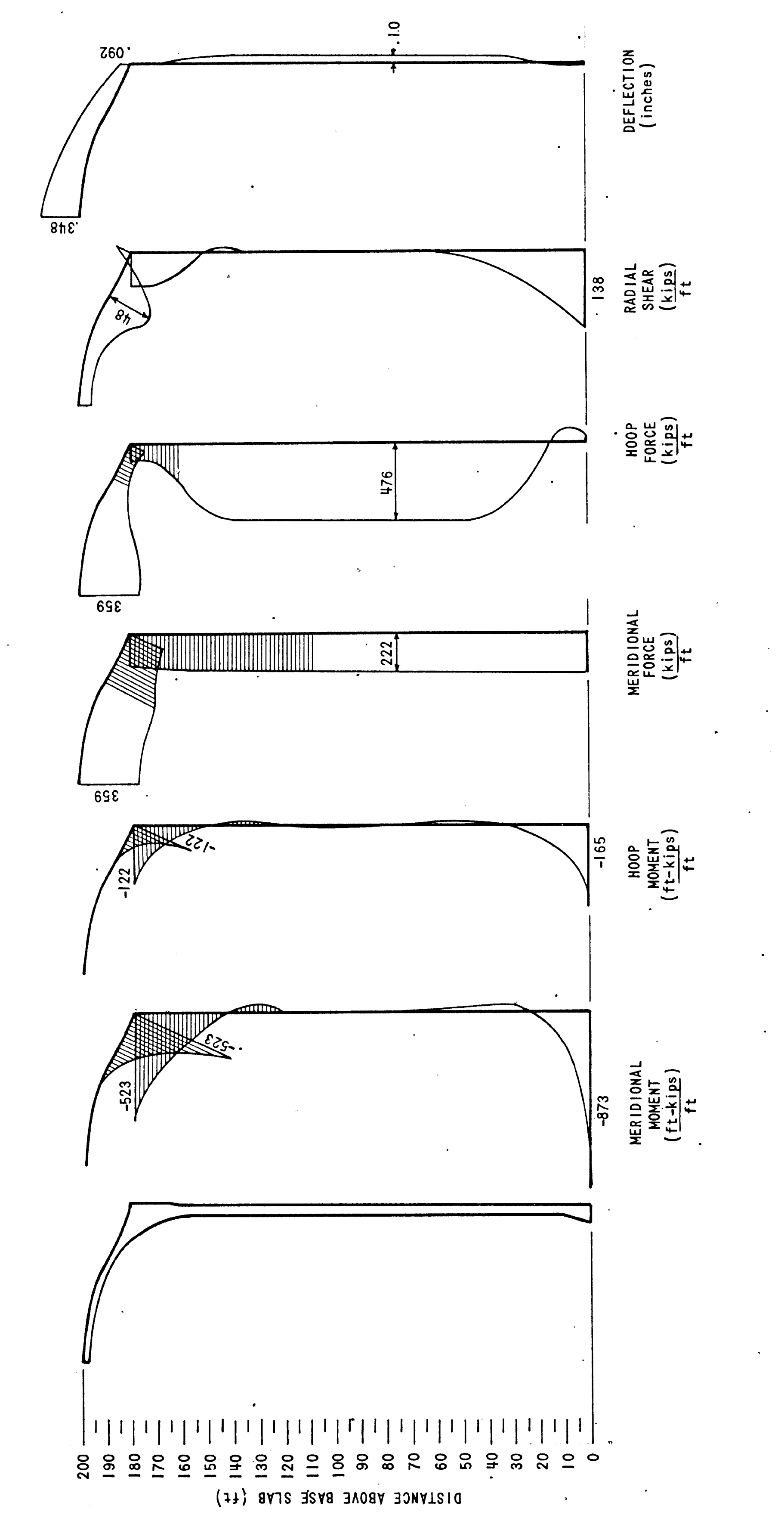
CONTAINMENT STRUCTURE
STRESS RESULTANTS, DEAD LOAD (D)



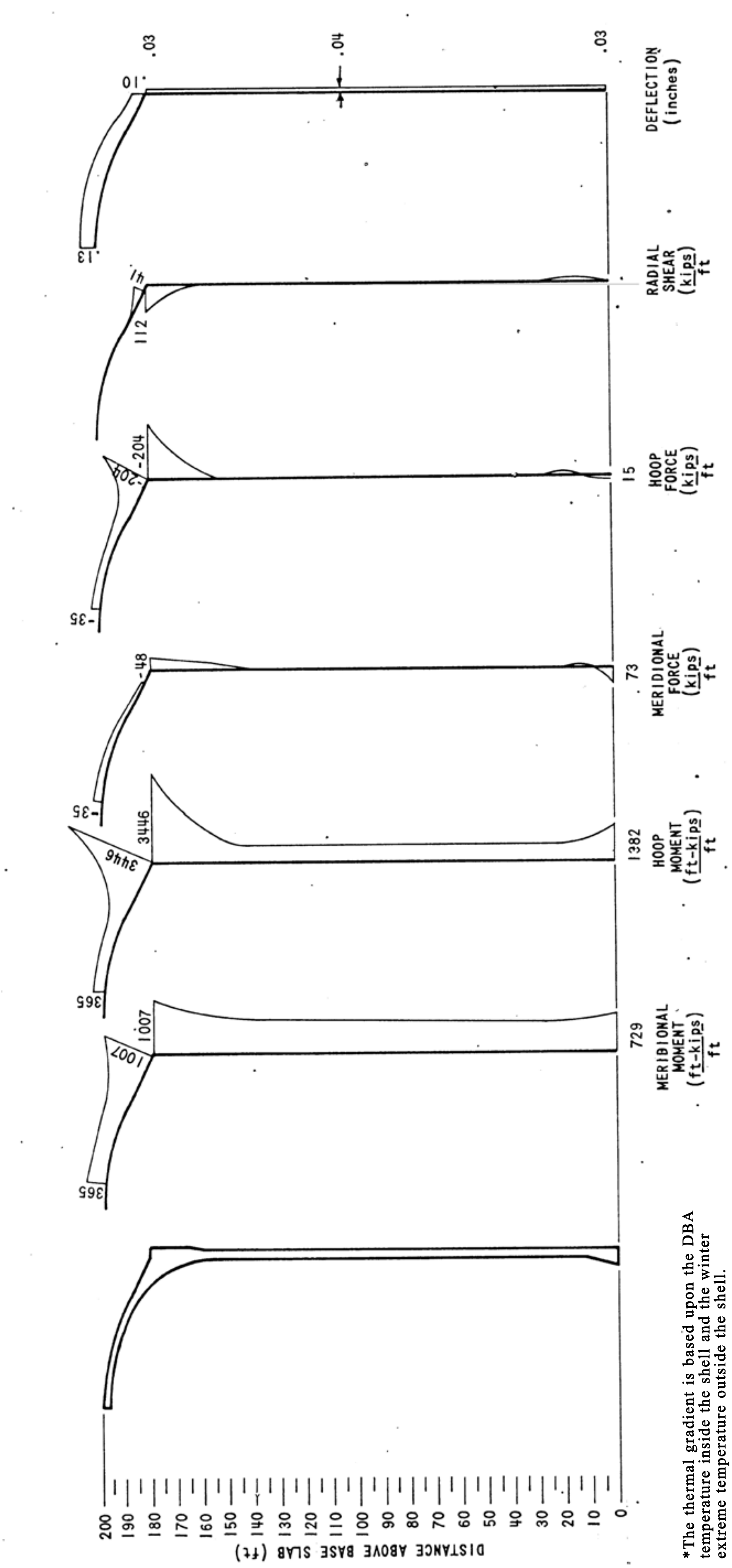
CONTAINMENT STRUCTURE
STRESS RESULTANTS, FINAL PRESTRESS (F_f)



CONTAINMENT STRUCTURE
STRESS RESULTANTS, DBA PRESSURE (P)

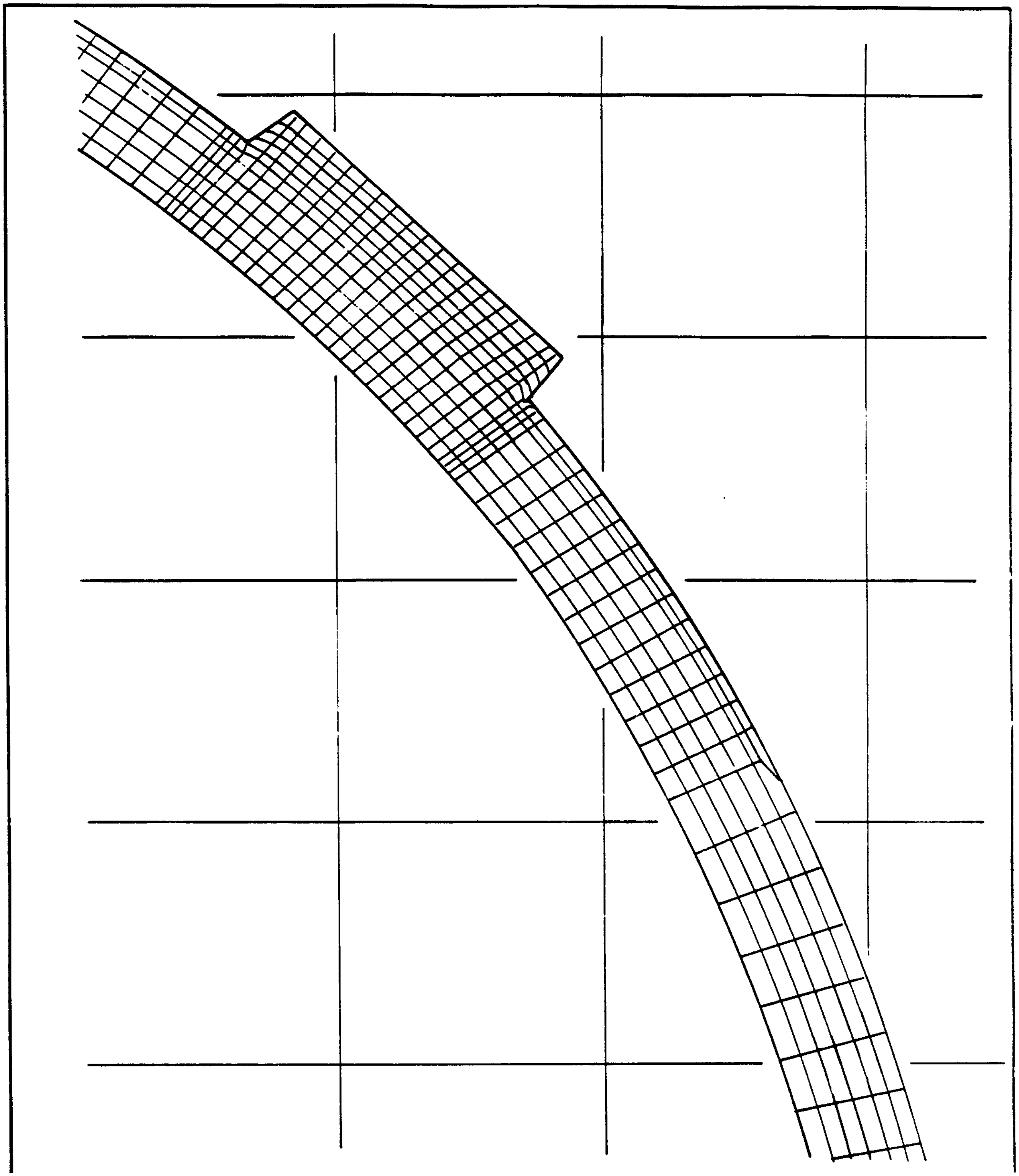


CONTAINMENT STRUCTURE
STRESS RESULTANTS, DBA TEMPERATURE (T_a)*

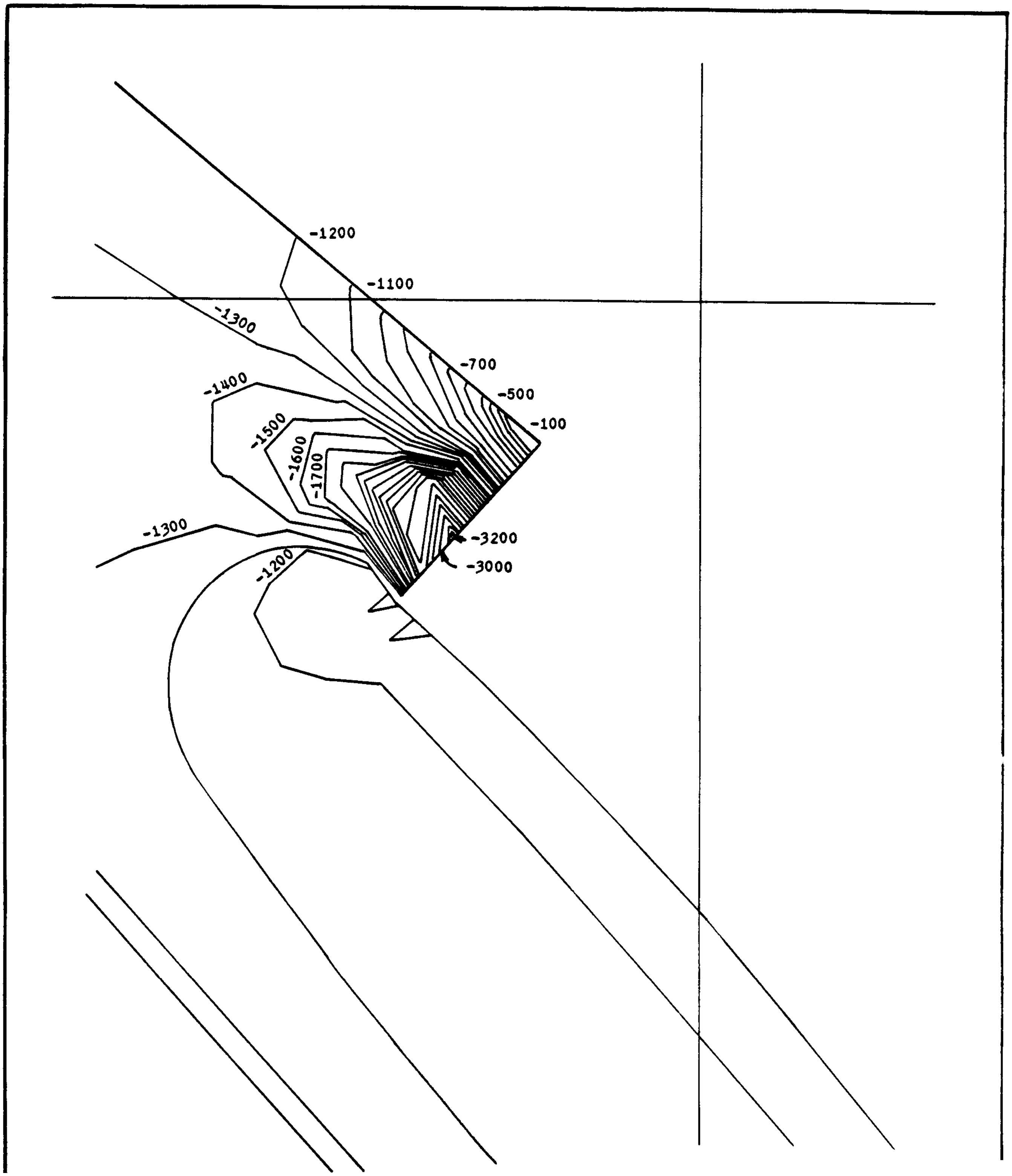


*The thermal gradient is based upon the DBA temperature inside the shell and the winter extreme temperature outside the shell.

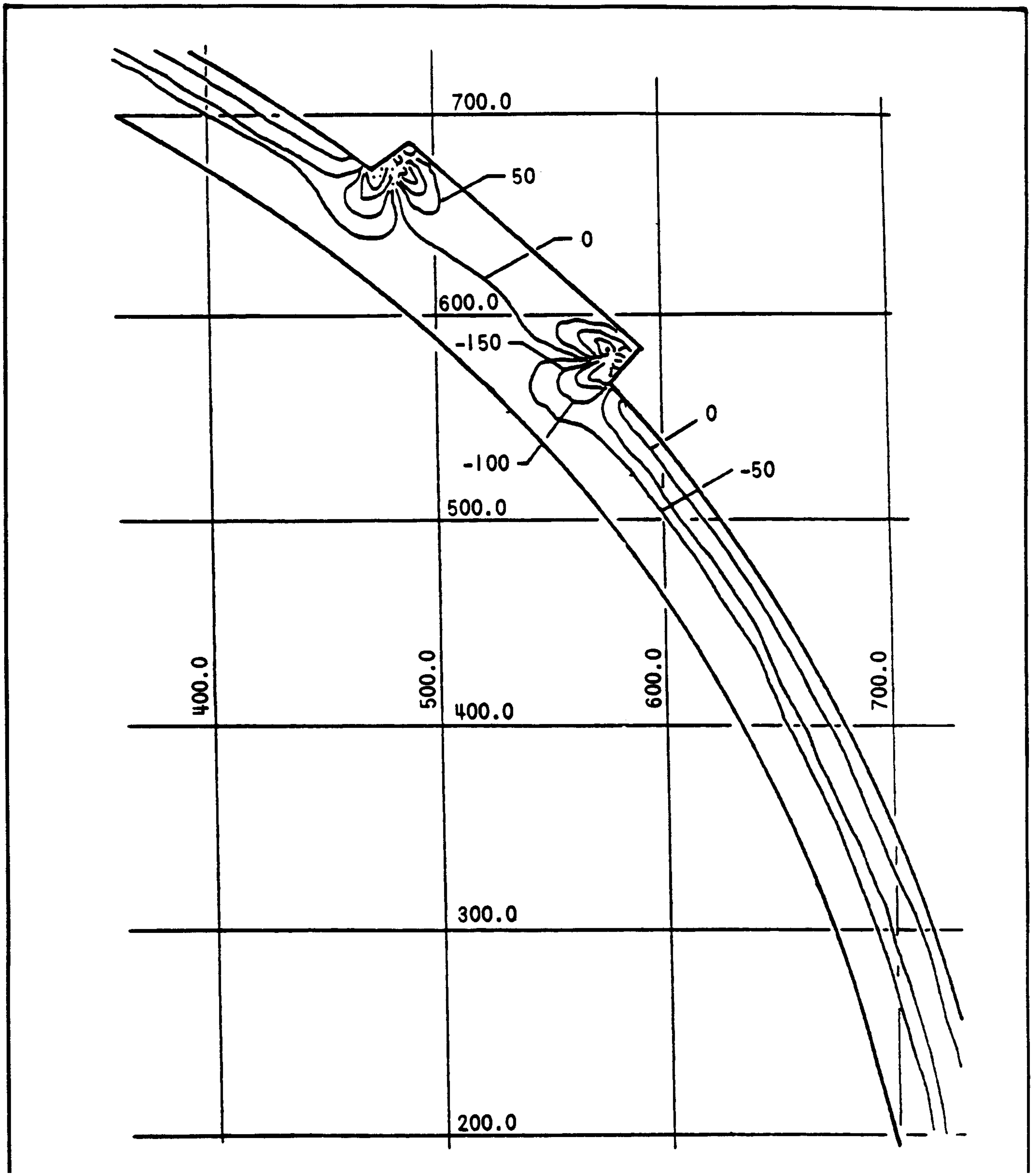
CONTAINMENT STRUCTURE
FINITE ELEMENT MESH FOR BUTTRESS, PLANE STRAIN ANALYSIS



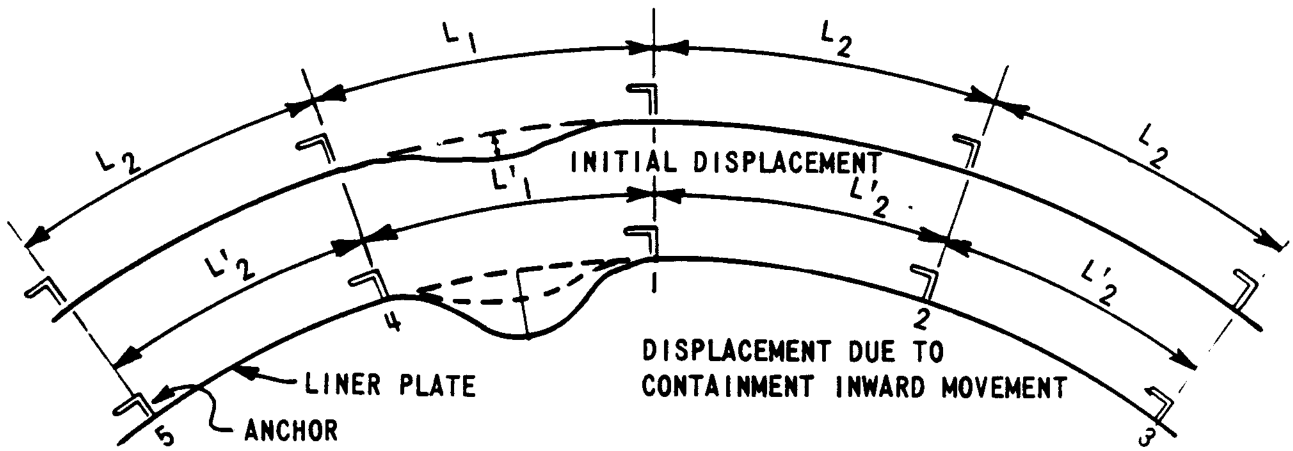
CONTAINMENT STRUCTURE
BUTTRESS ISOSTRESS PLOT, MAXIMUM COMPRESSIVE STRESSES

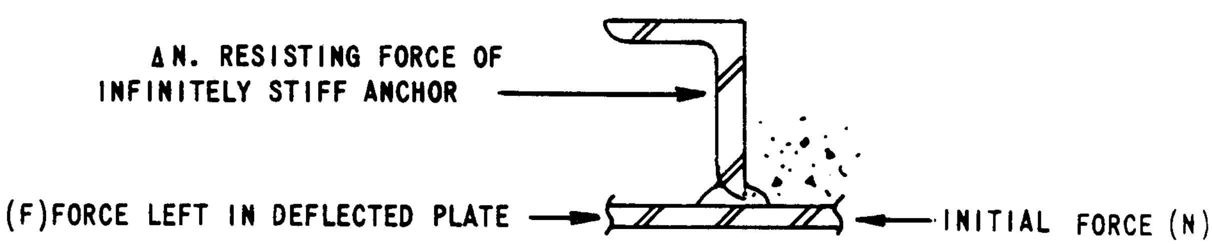


CONTAINMENT STRUCTURE
BUTTRESS ISOSTRESS PLOT, MINIMUM COMPRESSIVE OR MAXIMUM TENSILE STRESSES

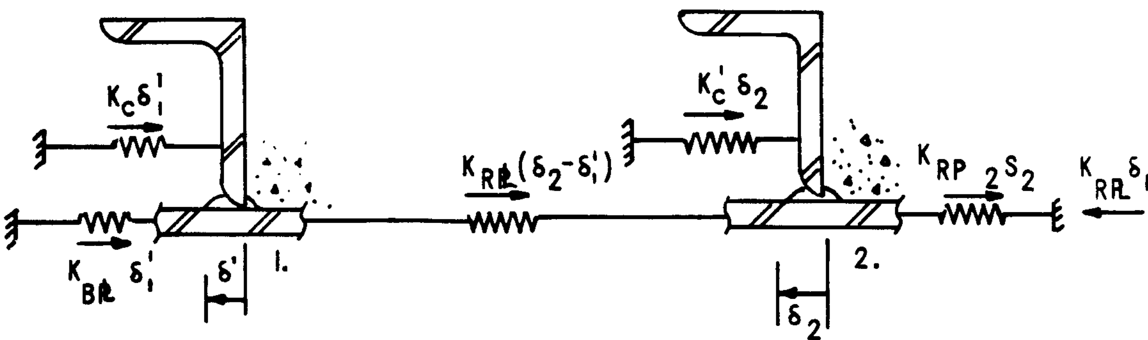


CONTAINMENT STRUCTURE
MODEL FOR LINER PLATE ANALYSIS



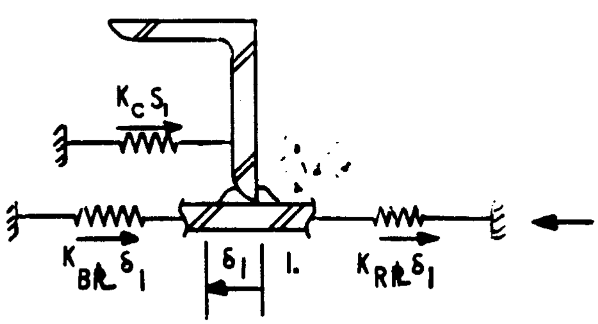


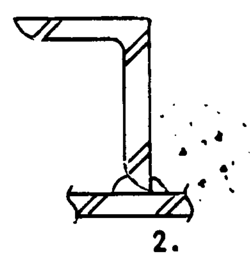
CONTAINMENT STRUCTURE
MODEL FOR LINER PLATE ANALYSIS



DISPLACEMENT DUE TO MOVEMENT OF ANCHOR 2

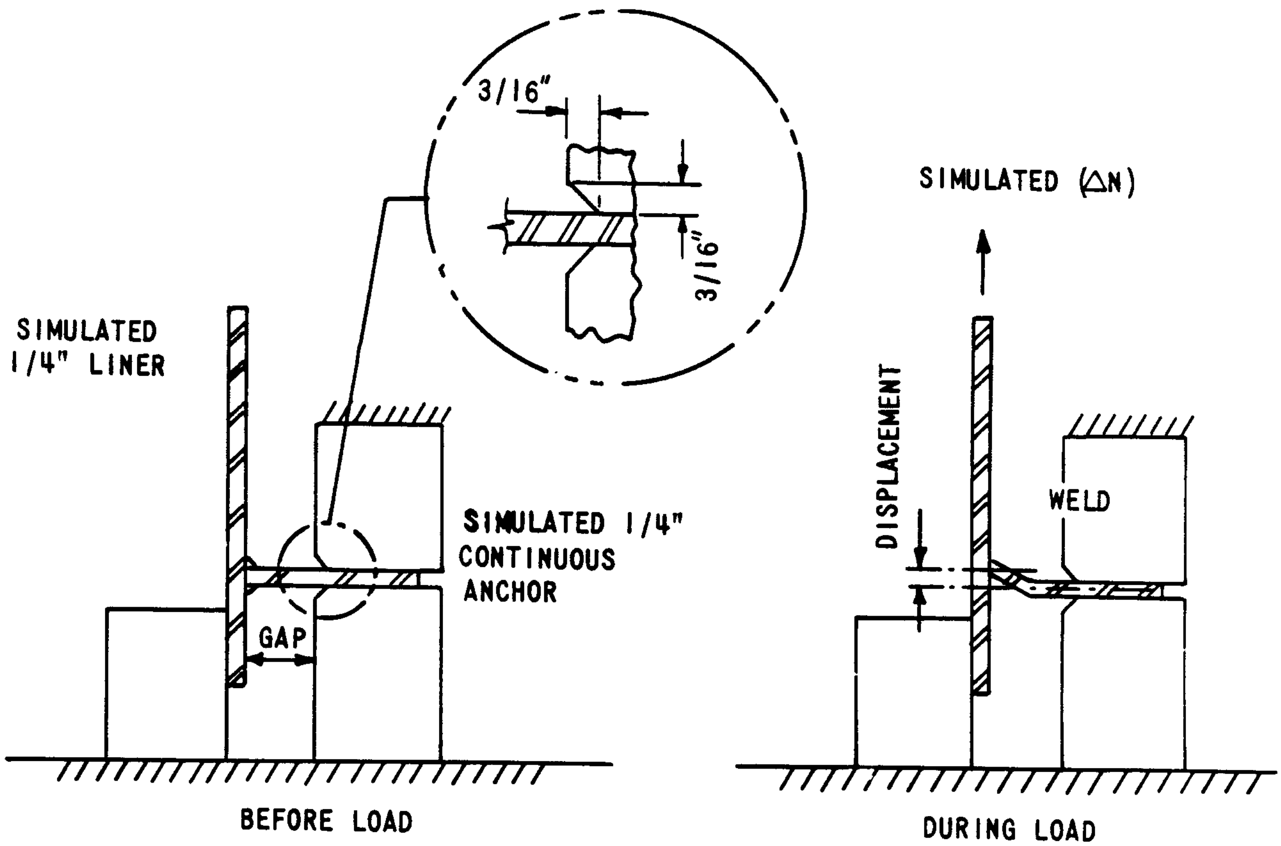
DISPLACEMENT OF ANCHOR 2





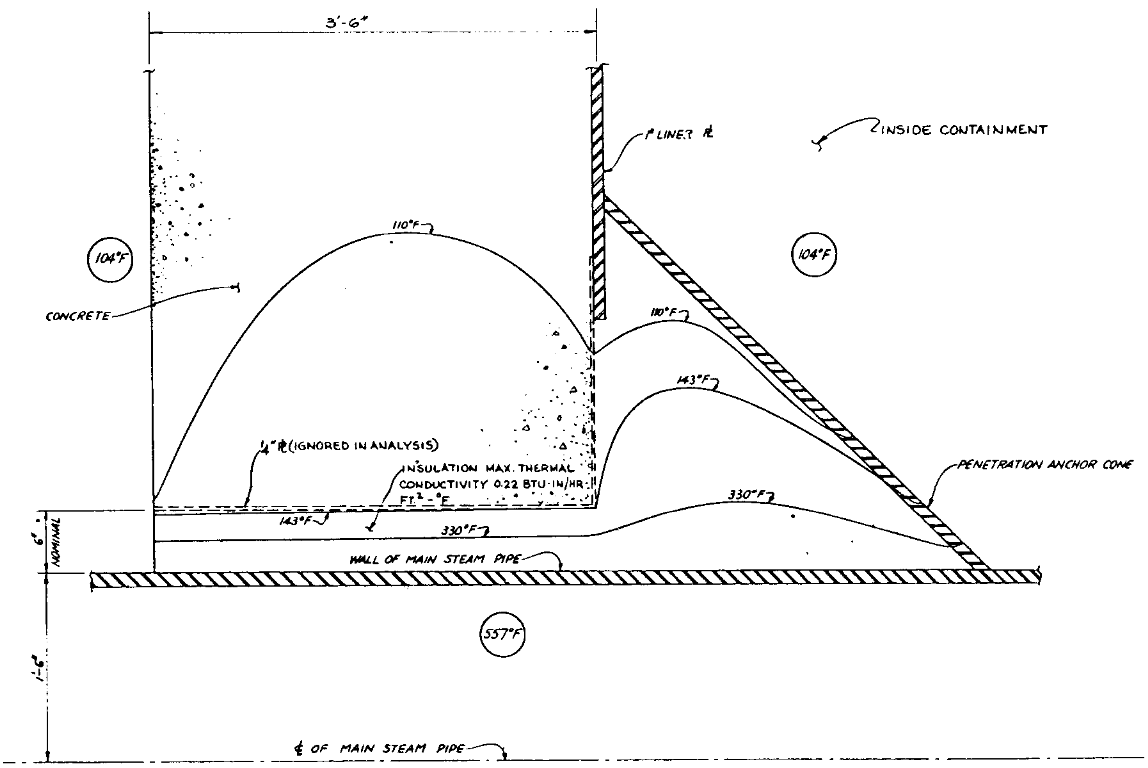
DISPLACEMENT OF ANCHOR

CONTAINMENT STRUCTURE
RESULTS FROM TESTS ON LINER PLATE ANCHORS

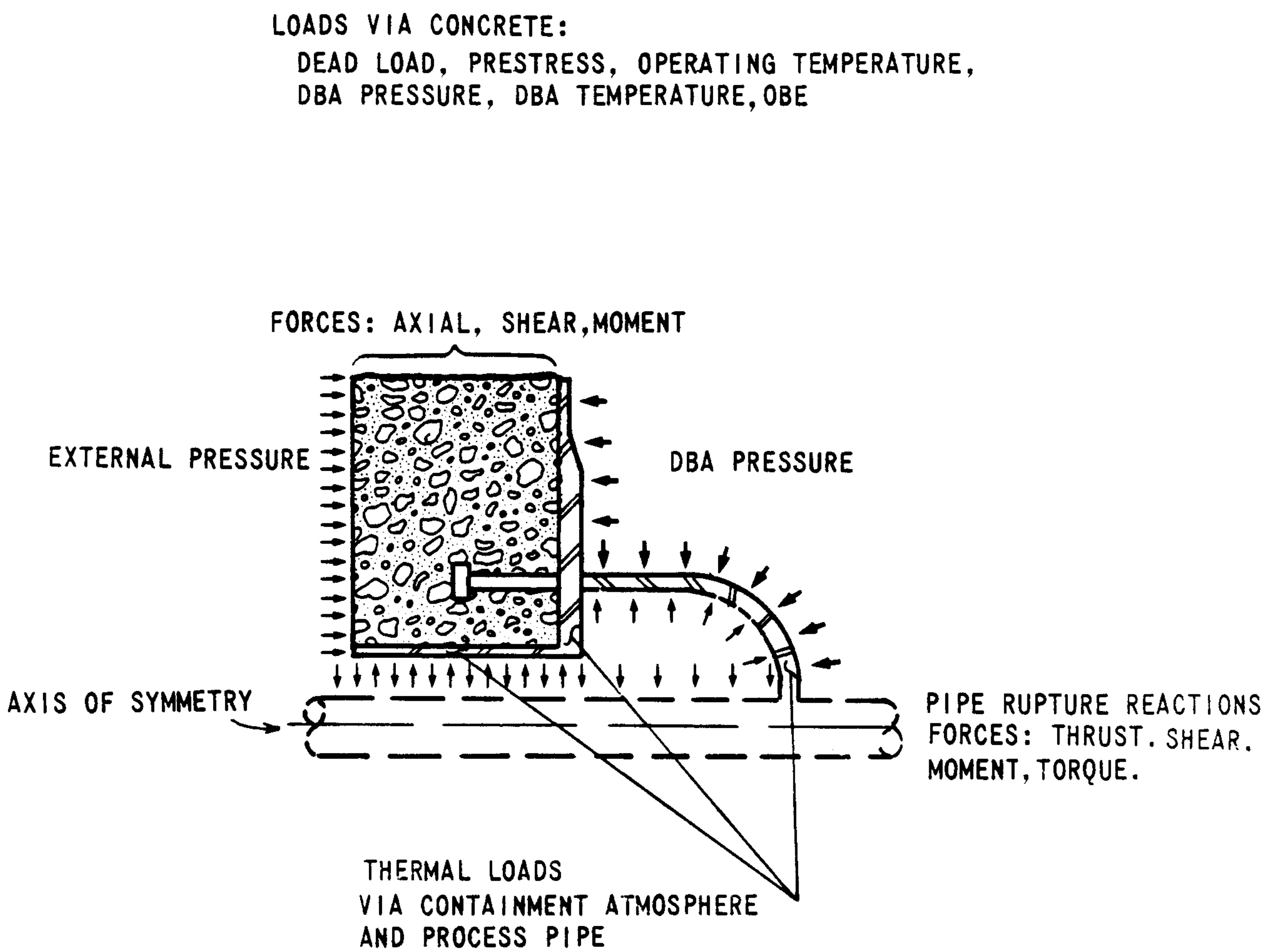


WELD CONFIGURATION	GAP (IN)	ULTIMATE LOAD (K/IN)	ULTIMATE DISPLACEMENT (IN)	LOCATION OF FAILURE
3/16	0	14.95	.14	LINER PLATE
3/16	5/8	5.56	.68	ANCHOR WELD
3/16 6-12	0	7.65	.18	ANCHOR WELD
3/16 6-12	5/8	2.93	.60	ANCHOR WELD
3/16 4-12	0	6.67	.18	ANCHOR WELD
3/16 4-12	5/8	2.46	.30	ANCHOR WELD

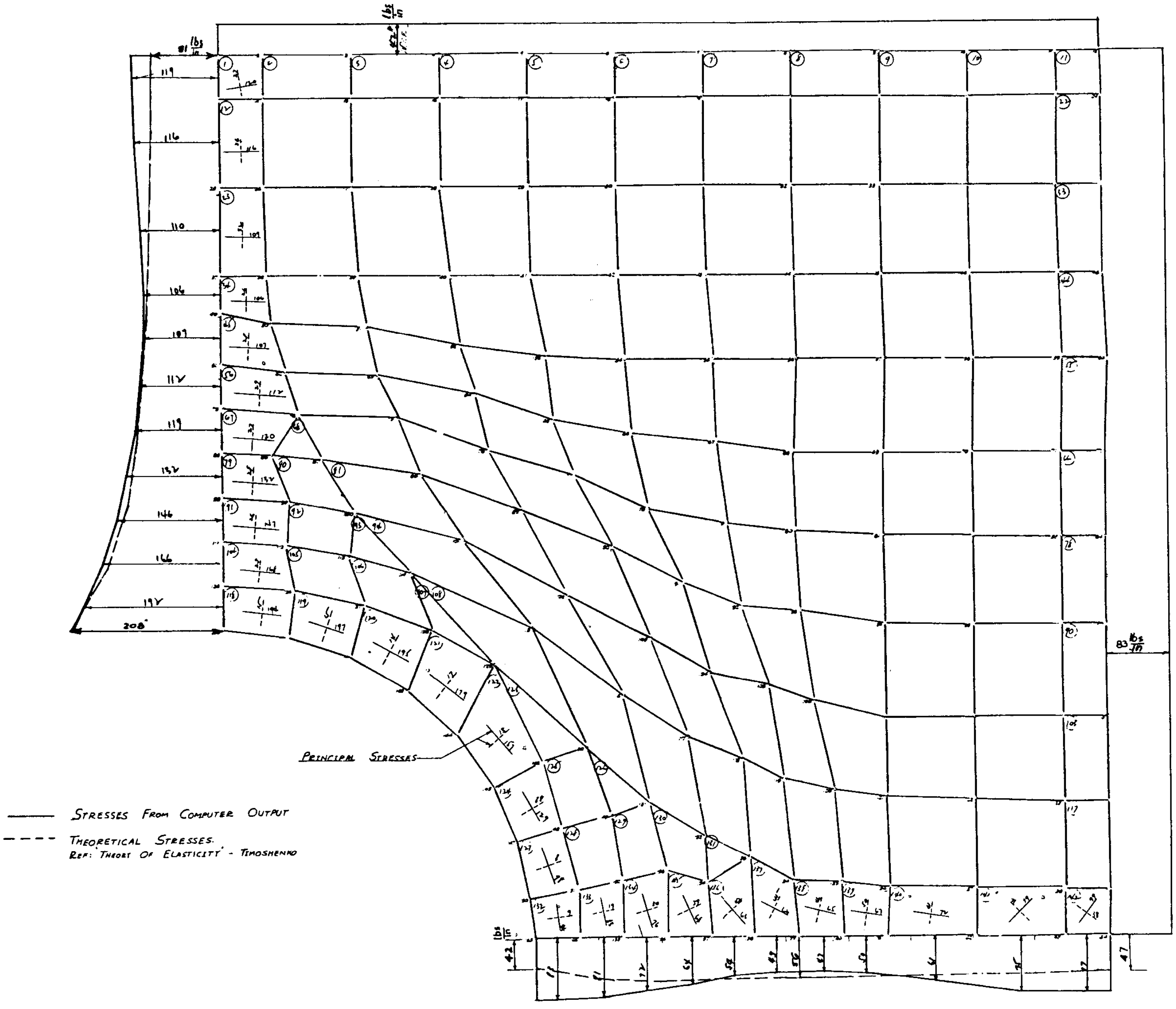
CONTAINMENT STRUCTURE
THERMAL GRADIENT AT MAIN STEAM PENETRATION



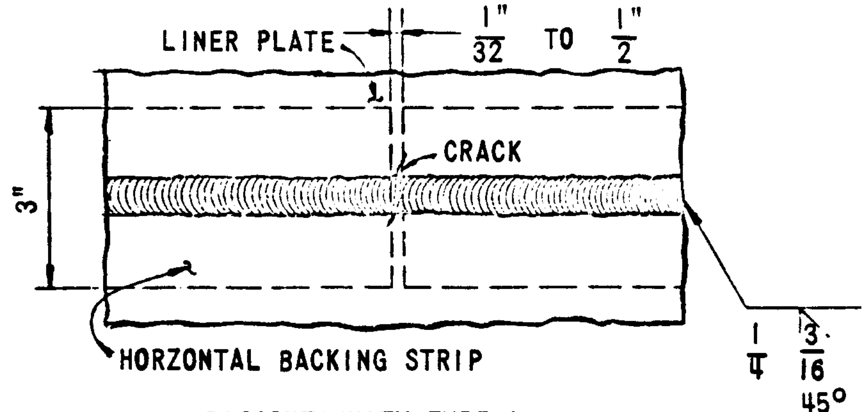
CONTAINMENT STRUCTURE
LOADS ON PIPE PENETRATIONS



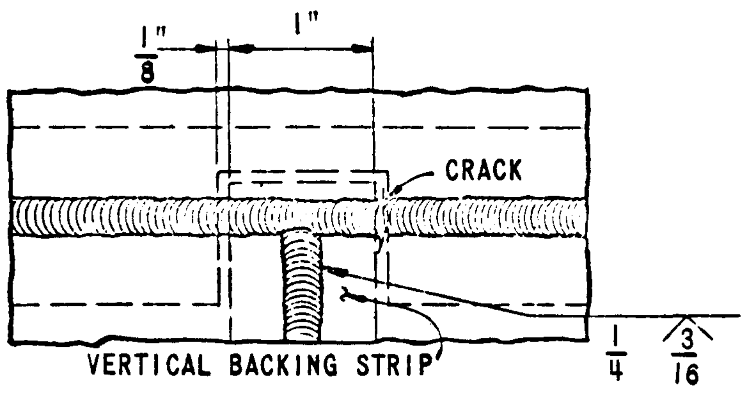
CONTAINMENT STRUCTURE
STRESS CONCENTRATIONS AT EQUIPMENT HATCH OPENING



CONTAINMENT STRUCTURE
LINER PLATE, WELD CRACKING AT BACKING STRIP DISCONTINUITIES

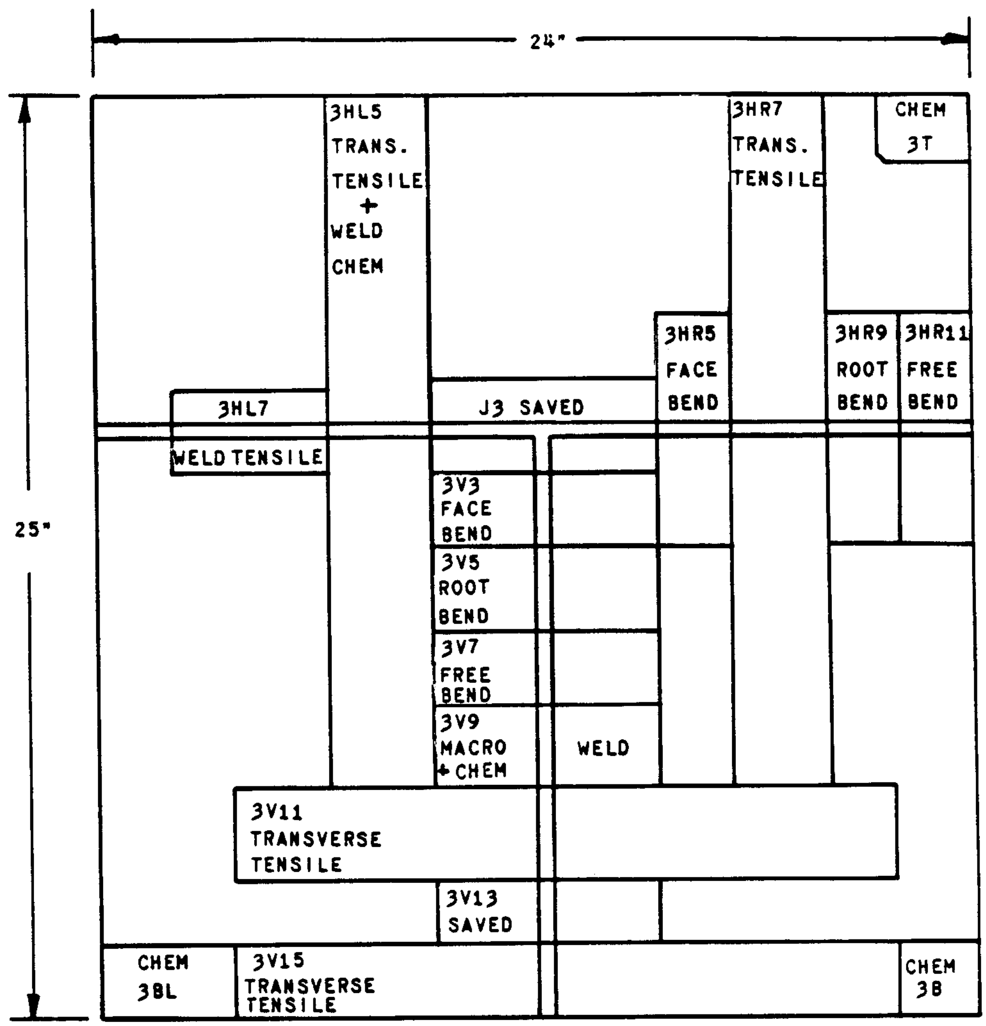


DISCONTINUITY TYPE 1

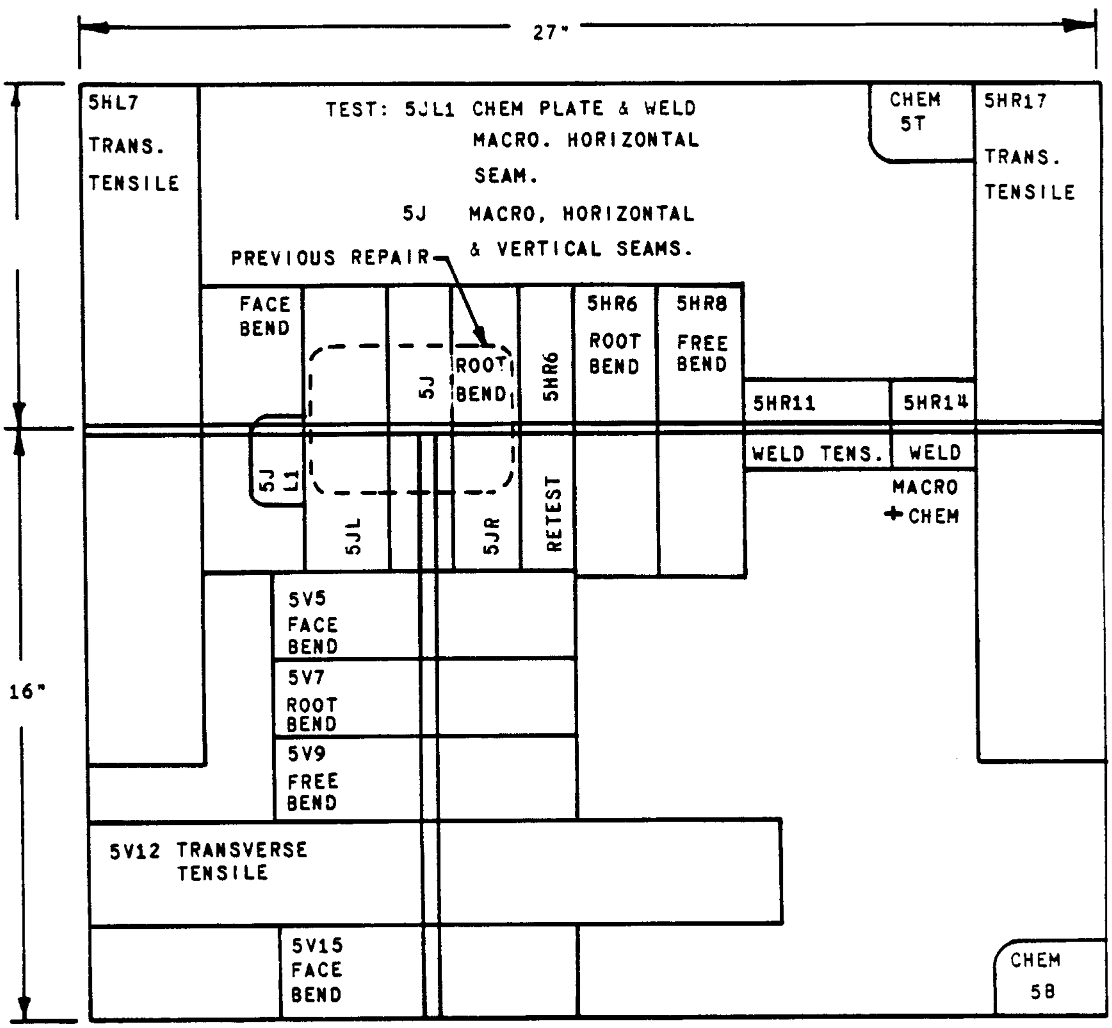


DISCONTINUITY TYPE 2

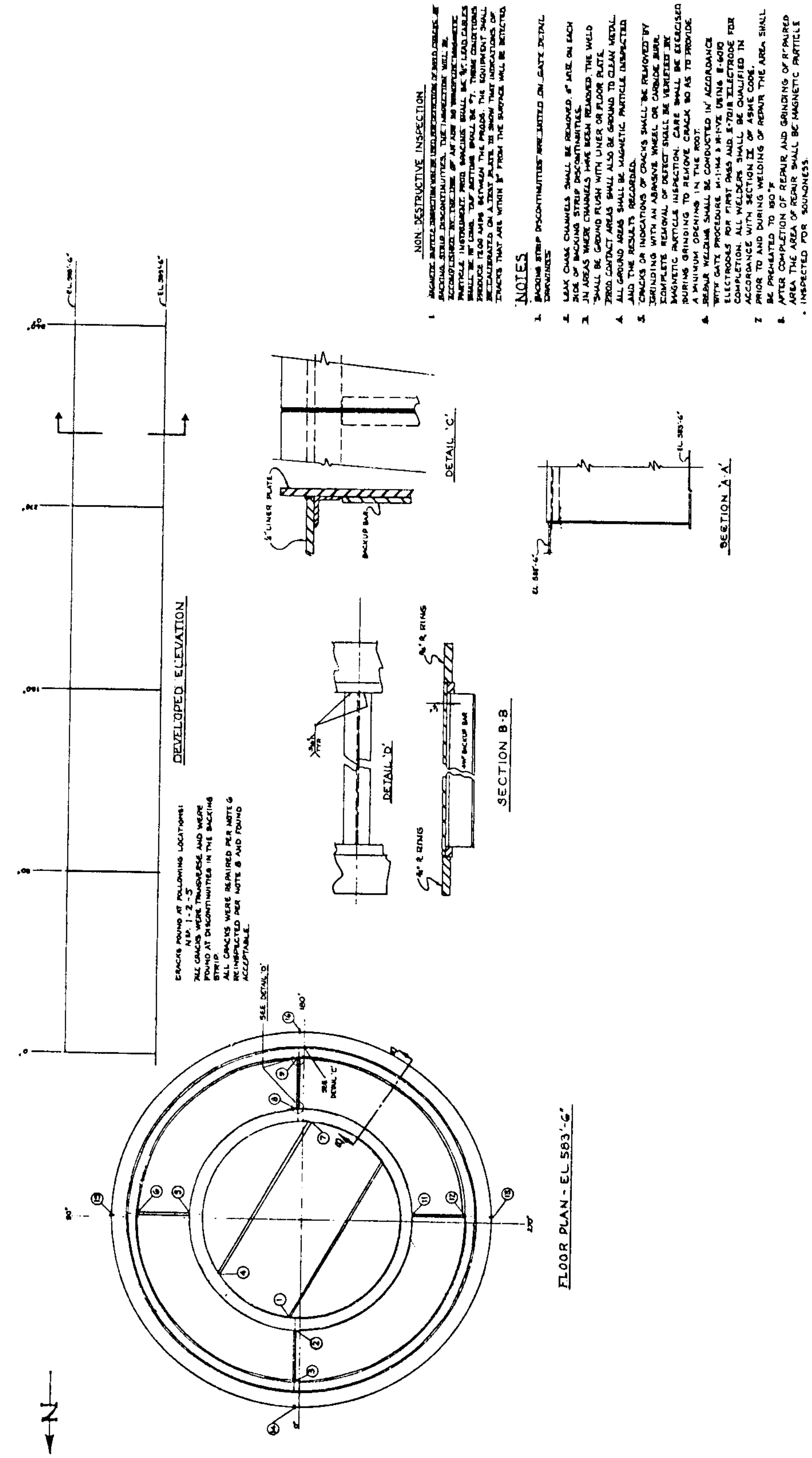
CONTAINMENT STRUCTURE
LINER PLATE TEST SAMPLE, ELEVATION 600'-0", AZIMUTH 113°



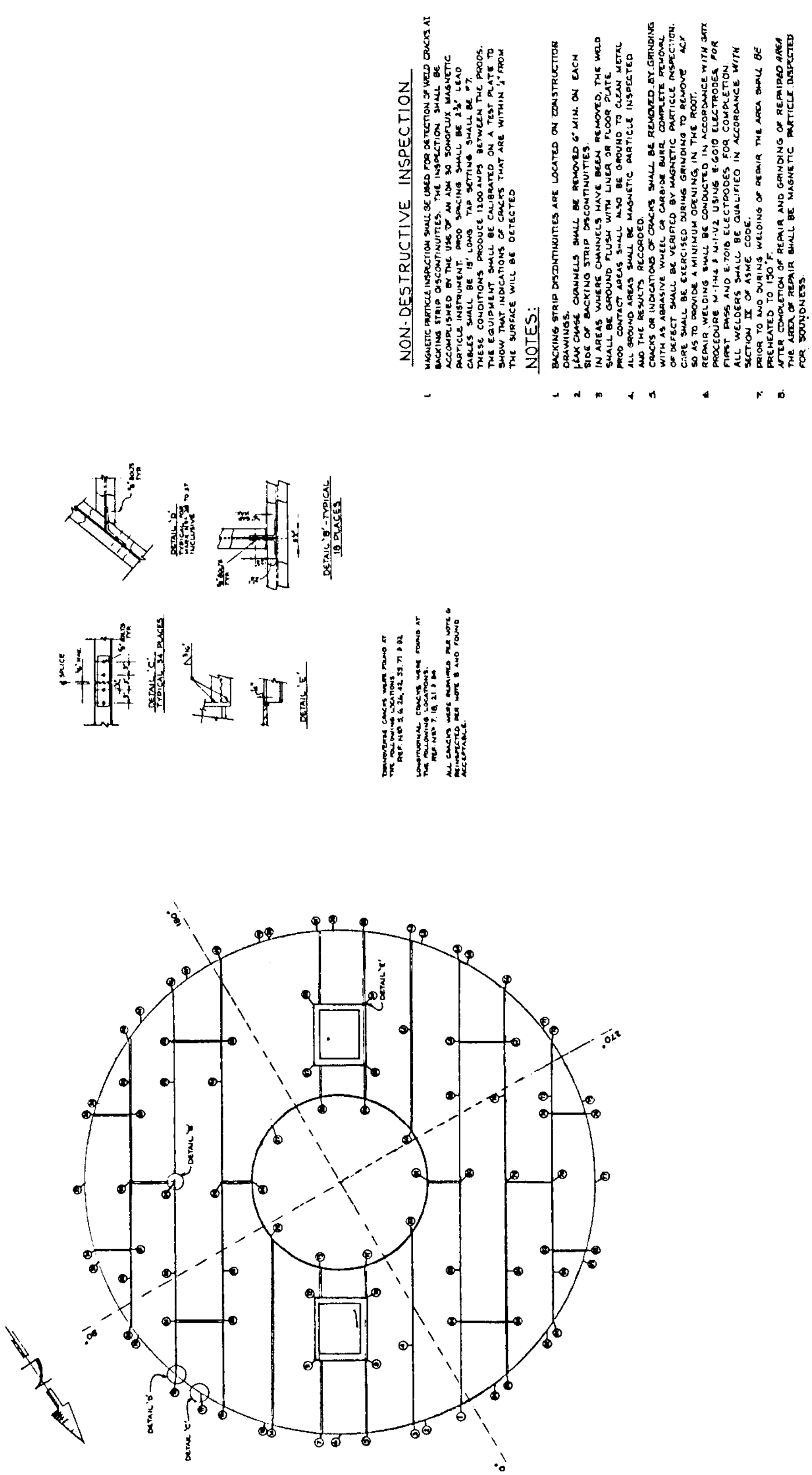
CONTAINMENT STRUCTURE
LINER PLATE TEST SAMPLE, ELEVATION 600'-0", AZIMUTH 275°



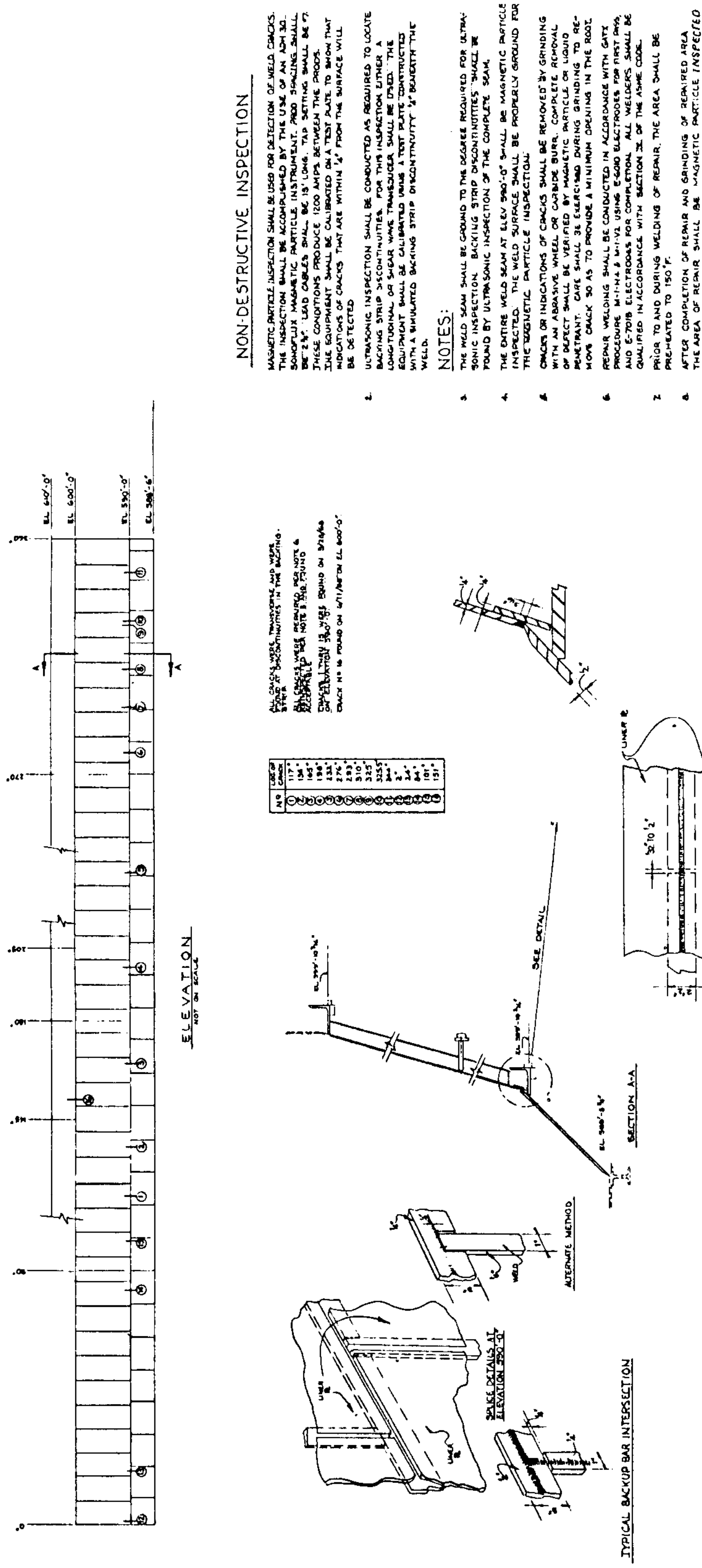
CONTAINMENT STRUCTURE
LINER PLATE, INSPECTION AND METHOD OF REPAIR, ELEVATION 583'-6"



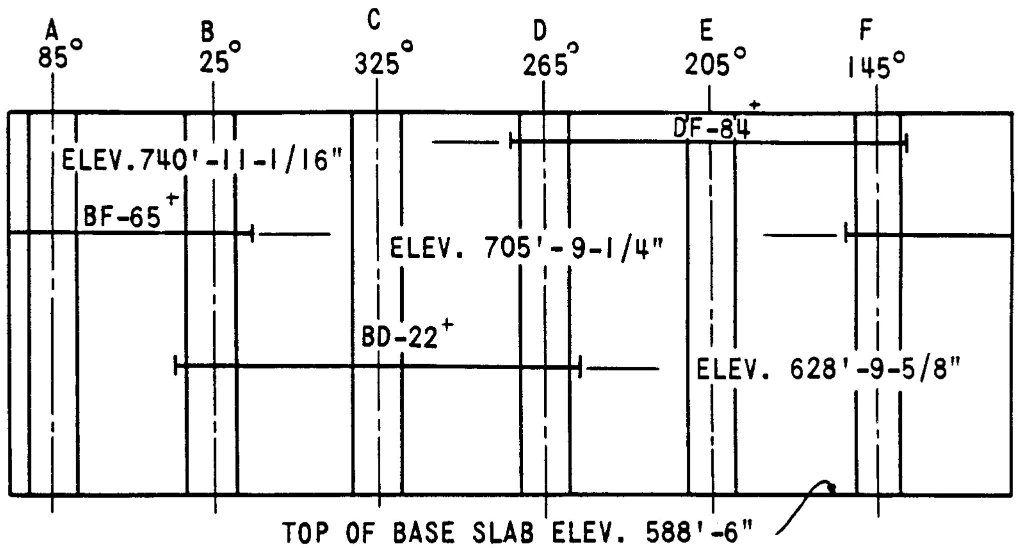
CONTAINMENT STRUCTURE
LINER PLATE, INSPECTION AND METHOD OF REPAIR, ELEVATION 588'-6"



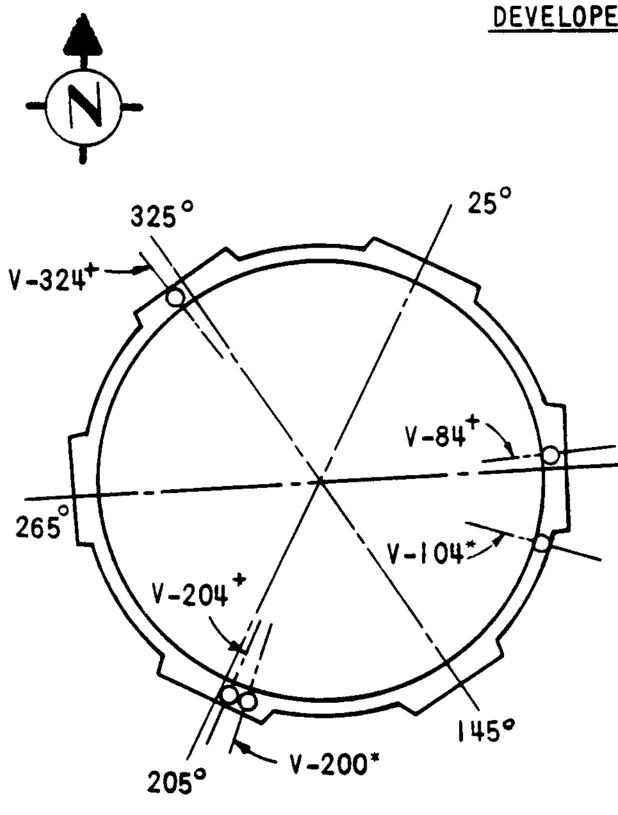
CONTAINMENT STRUCTURE
LINER PLATE, INSPECTION AND METHOD OF REPAIR, ELEVATION 590'-0"



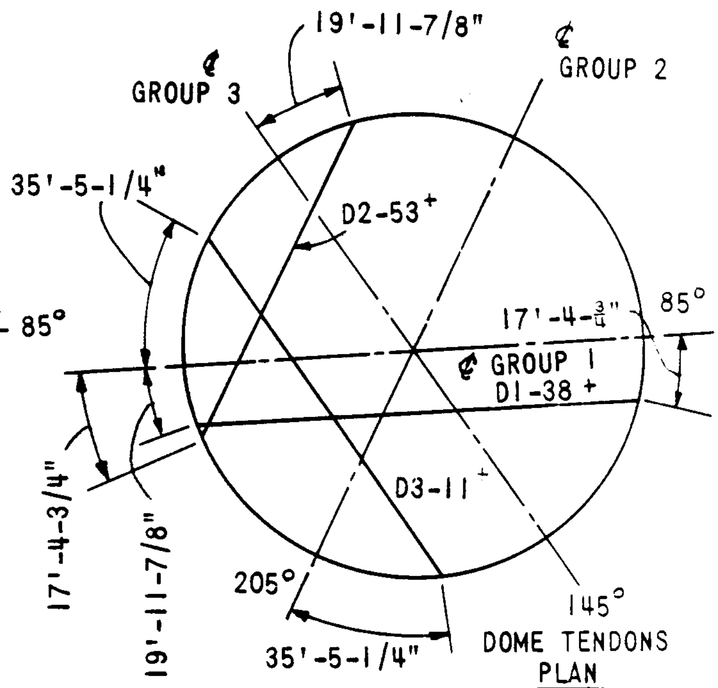
CONTAINMENT STRUCTURE
LOCATION AND IDENTIFICATION OF ELEVEN SURVEILLANCE TENDONS FOR ONE- AND THREE-YEAR SURVEILLANCES



HOOP TENDONS
DEVELOPED ELEVATION



VERTICAL TENDONS
PLAN



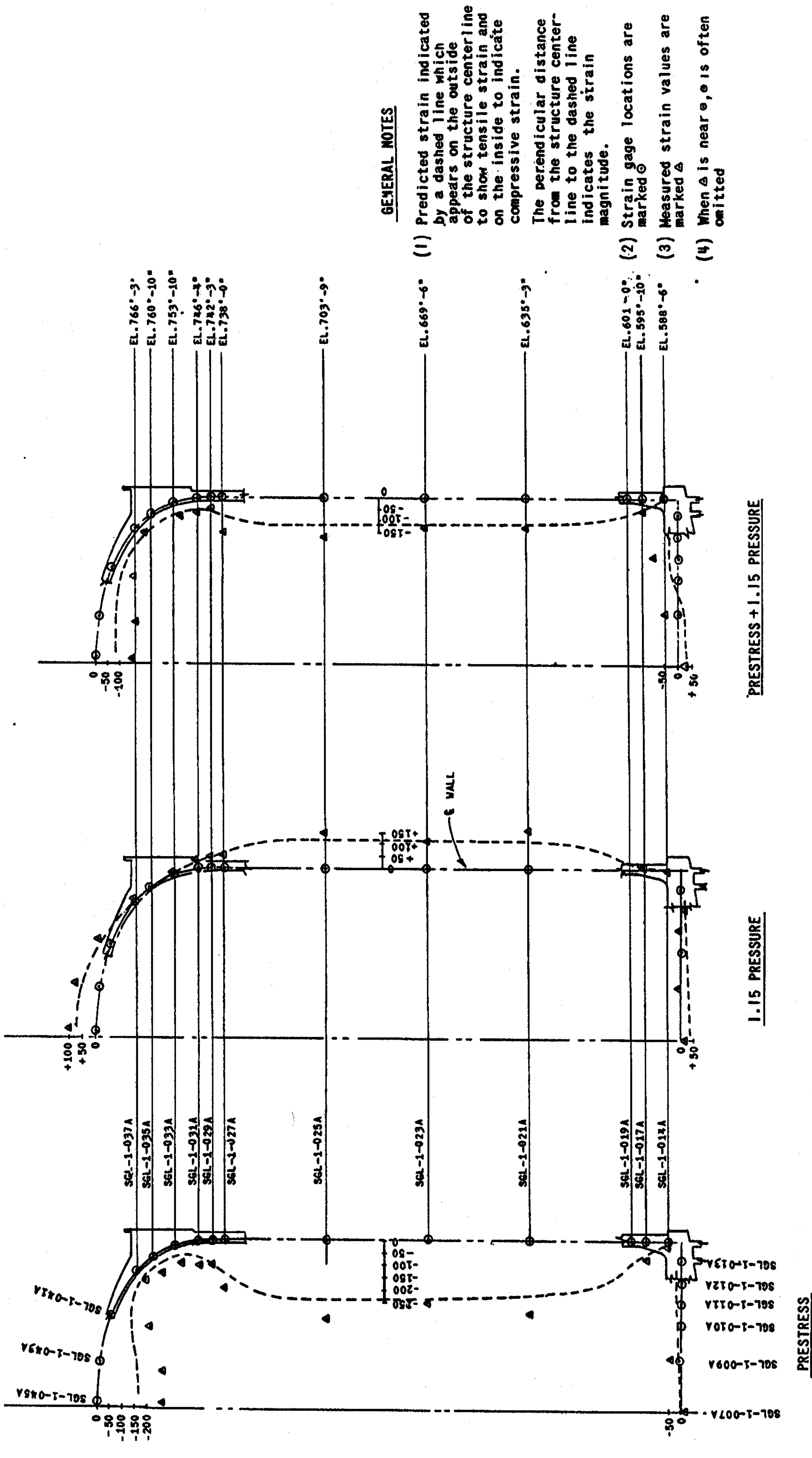
DOME TENDONS
PLAN

DIMENSIONS MEASURED AT FACE OF RING GIRDER

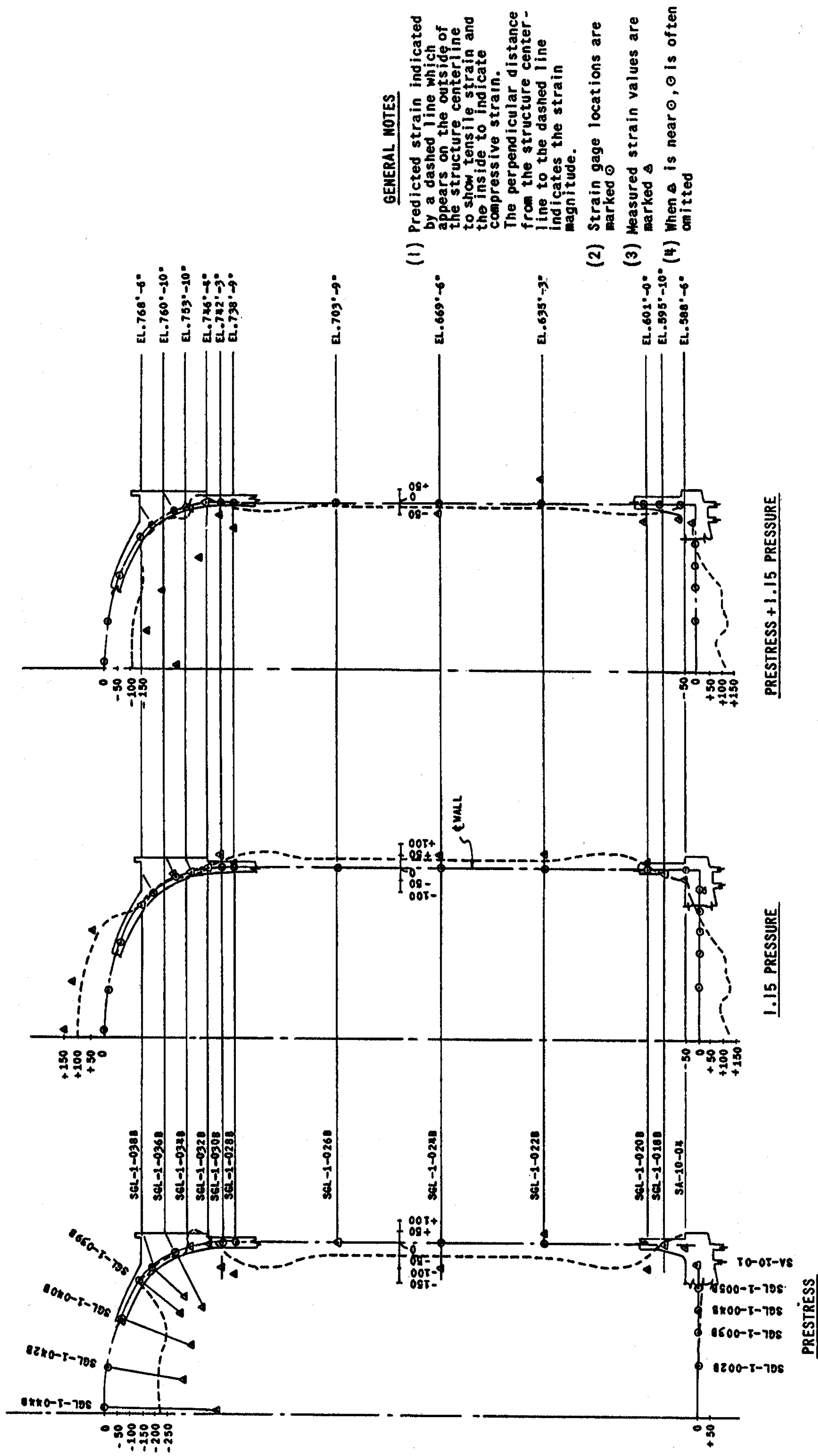
\+ NINE PRESELECTED SURVEILLANCE TENDONS

* TWO ADDITIONAL SURVEILLANCE TENDONS ADDED AT THE ONE YEAR SURVEILLANCE

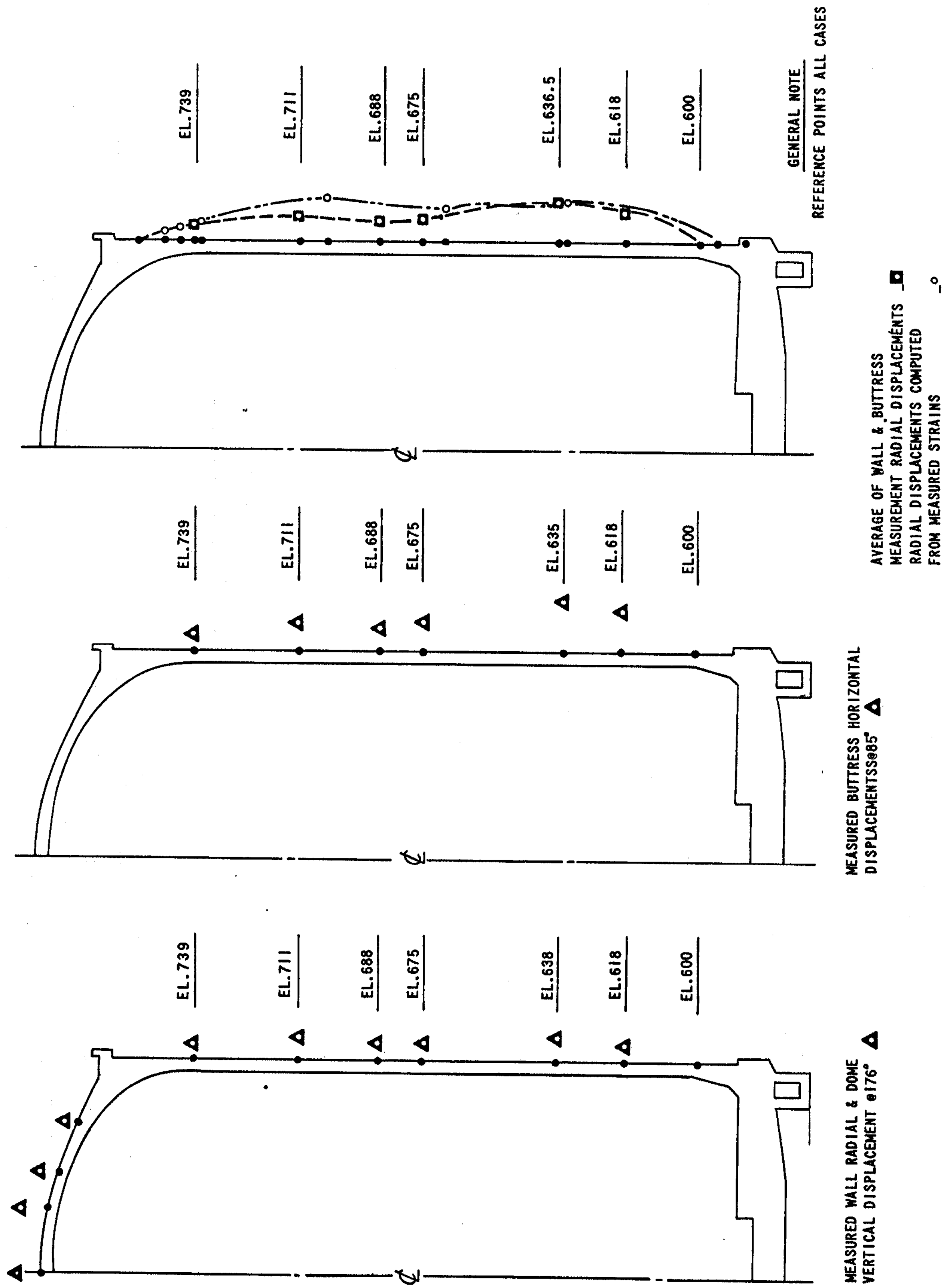
CONTAINMENT STRUCTURE
STRUCTURAL INTEGRITY TEST INSIDE HOOP STRAIN PROFILES
TYPICAL SECTION



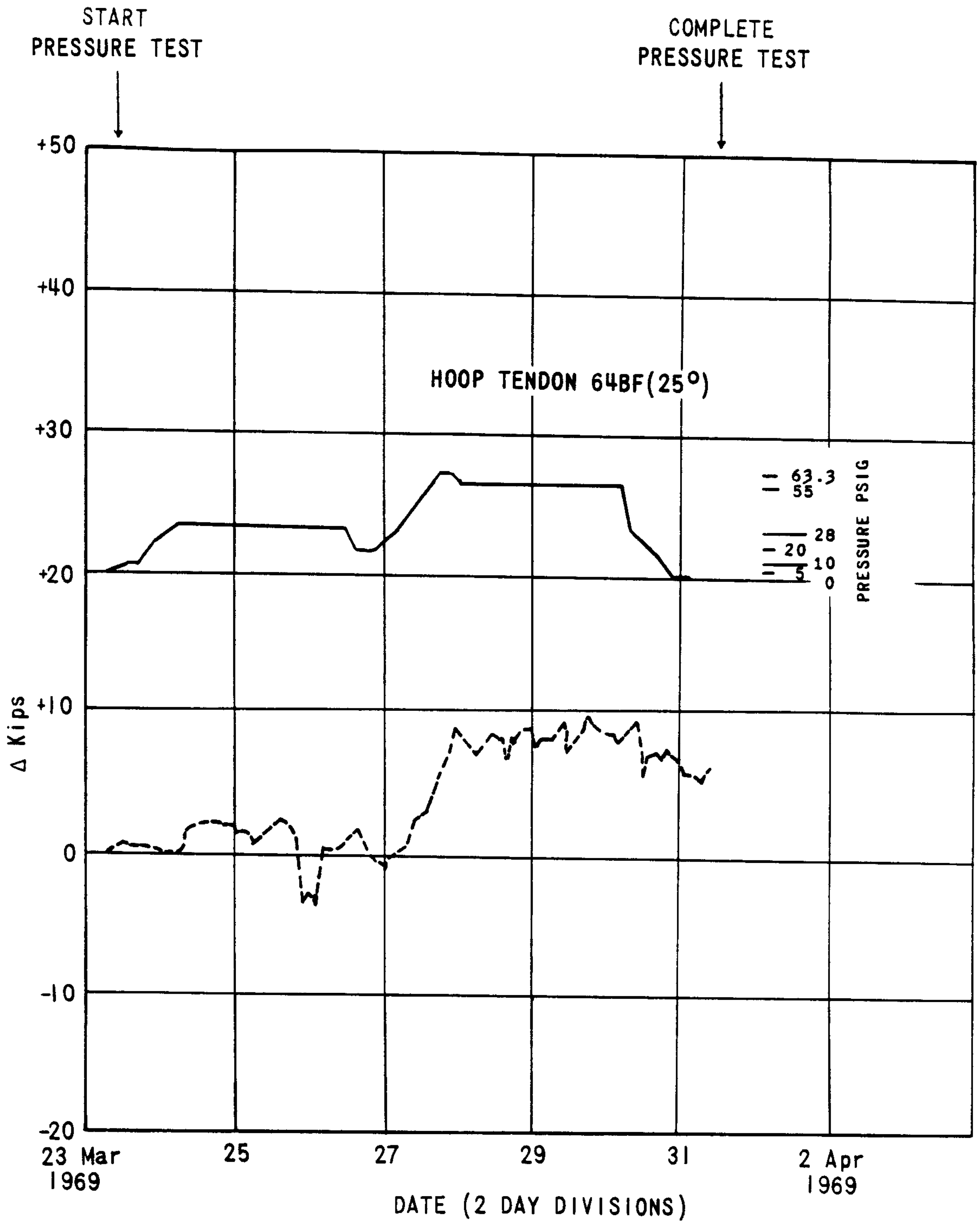
CONTAINMENT STRUCTURE
STRUCTURAL INTEGRITY TEST OUTSIDE MERIDIONAL STRAIN PROFILES
TYPICAL SECTION



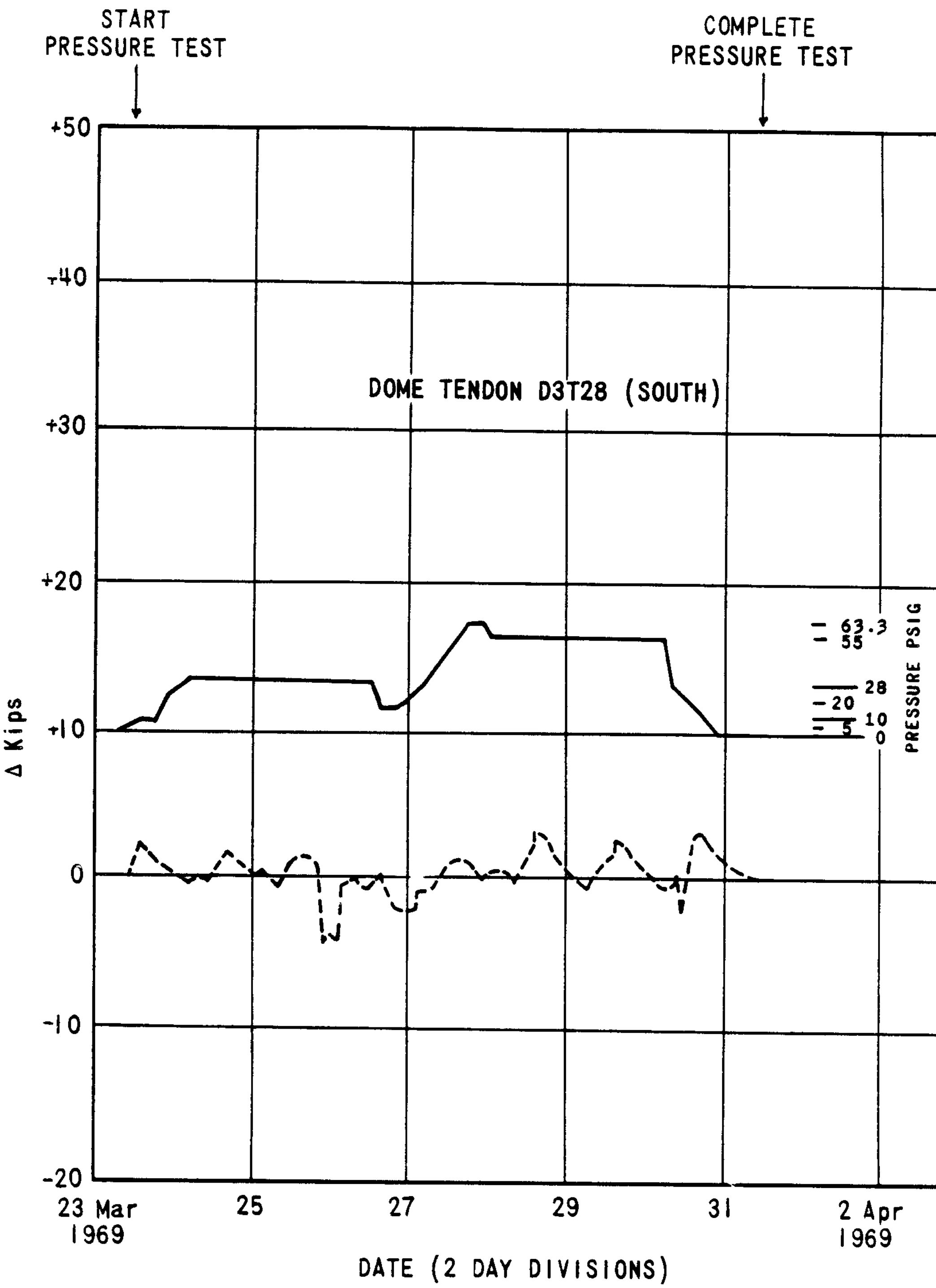
CONTAINMENT STRUCTURE
PRESSURE TEST DISPLACEMENT PROFILES



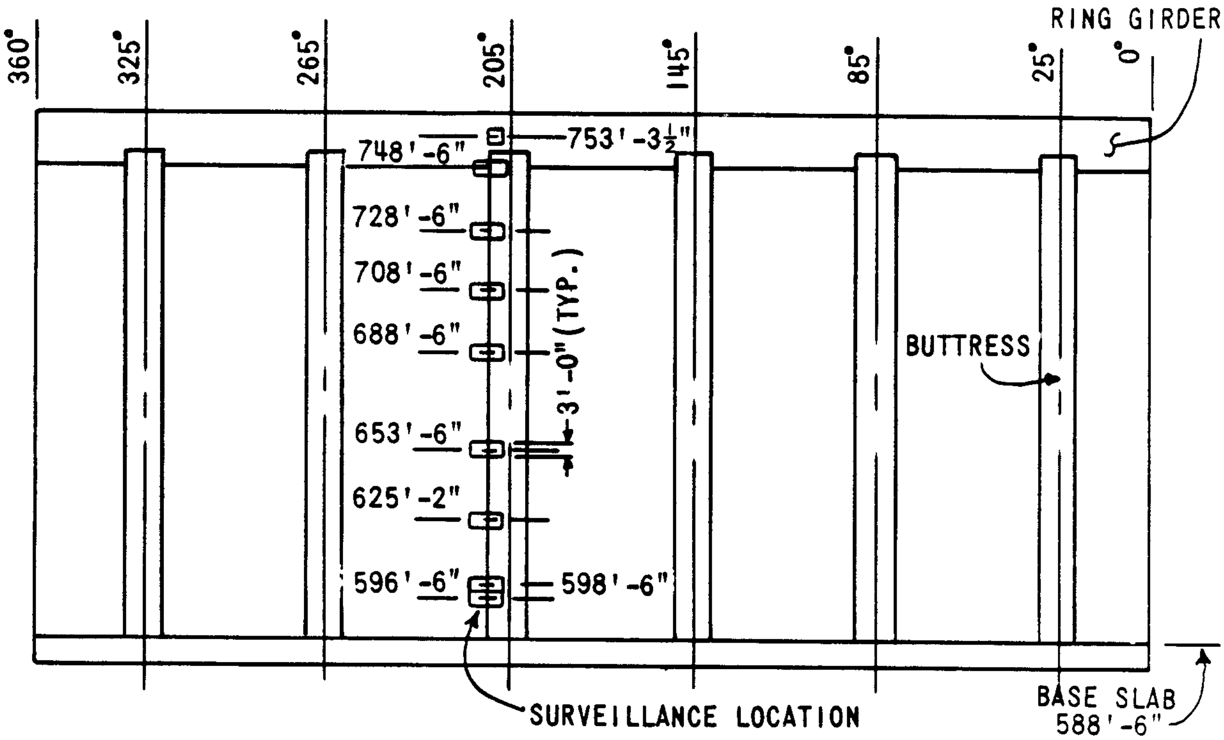
**CONTAINMENT STRUCTURE
PRESSURE TEST TENDON LOAD CHANGE**



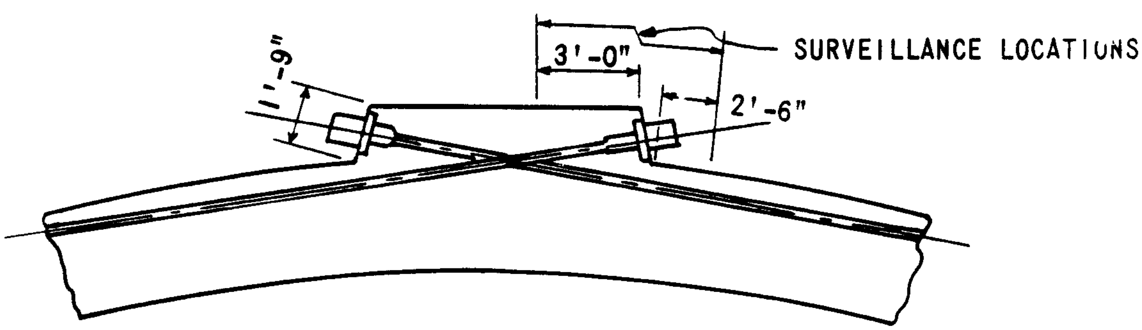
CONTAINMENT STRUCTURE
PRESSURE TEST TENDON LOAD CHANGE



**CONTAINMENT STRUCTURE
END ANCHORAGE SURVEILLANCE PROGRAM
CRACK SURVEILLANCE LOCATIONS**

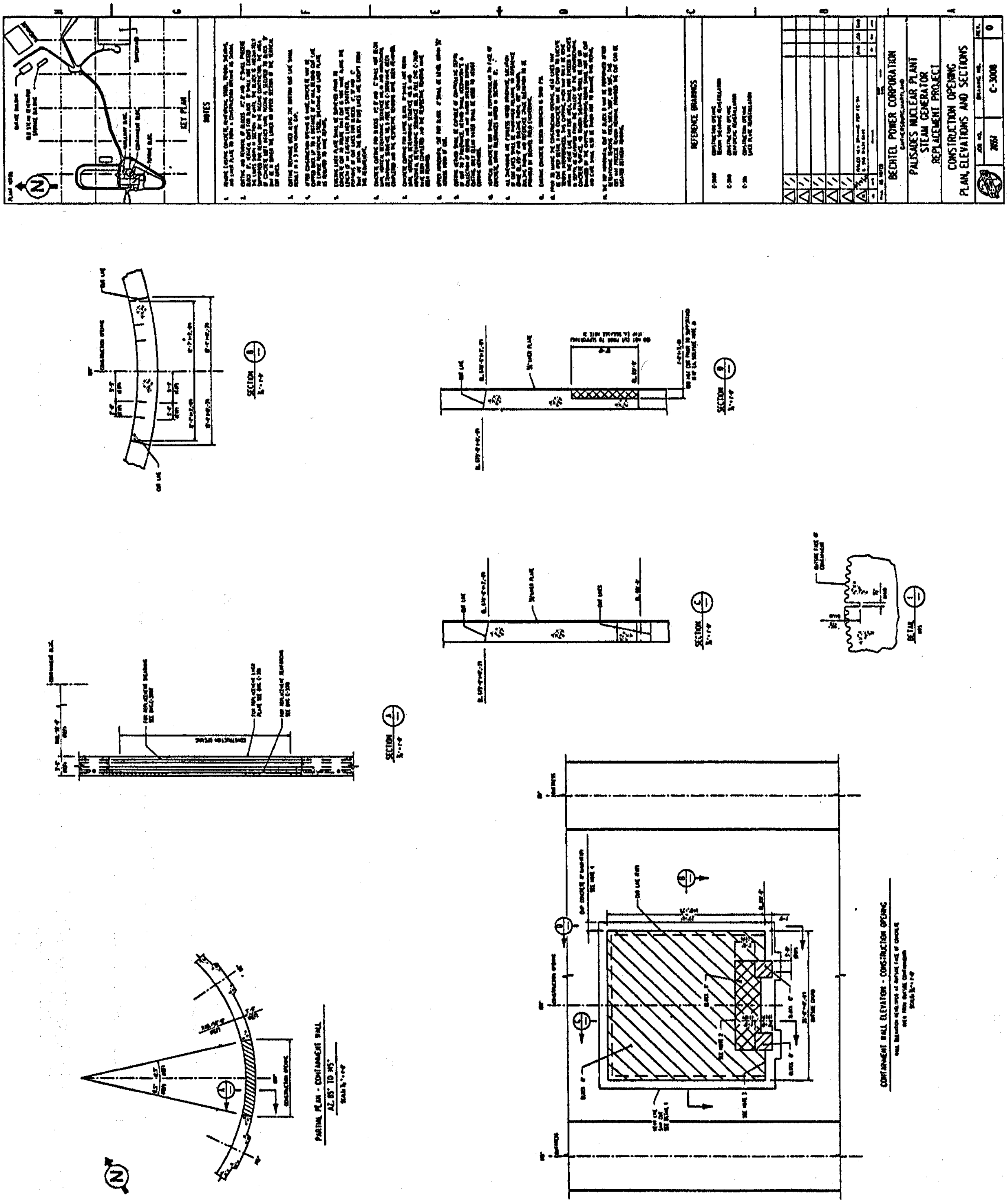


DEVELOPED ELEVATION

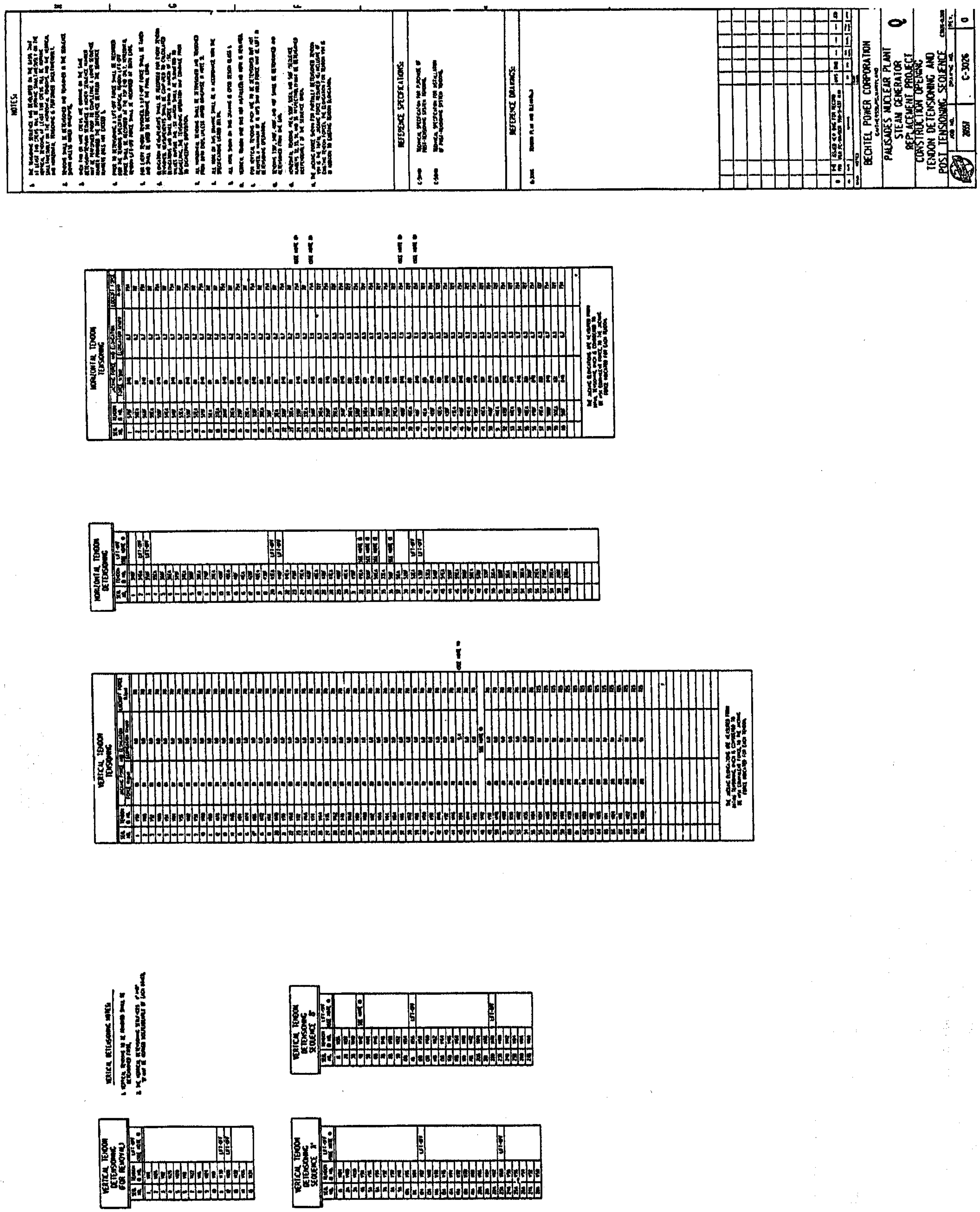


TYPICAL BUTTRESS DETAIL

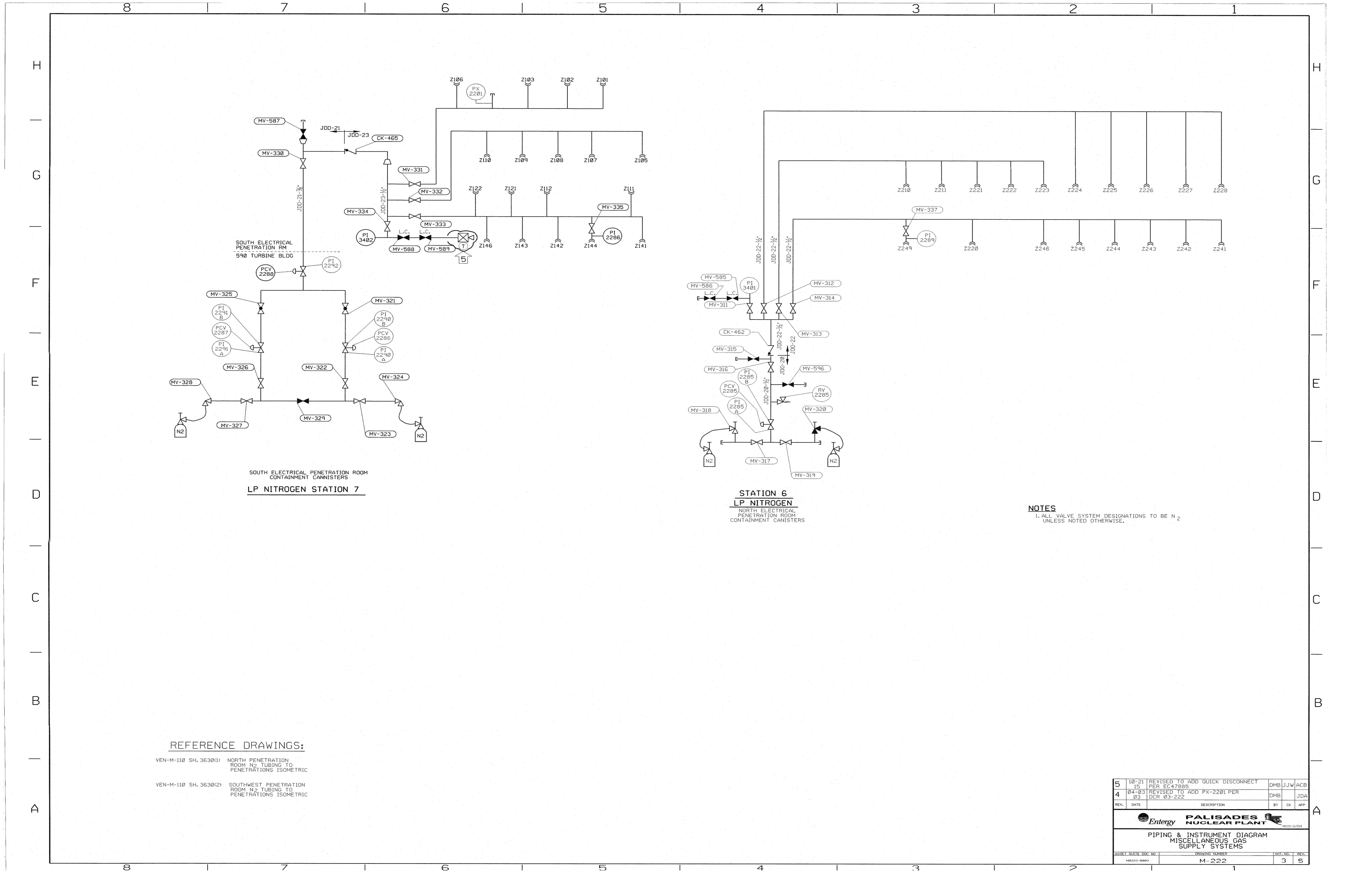
CONSTRUCTION OPENING PLAN, ELEVATION AND SECTIONS



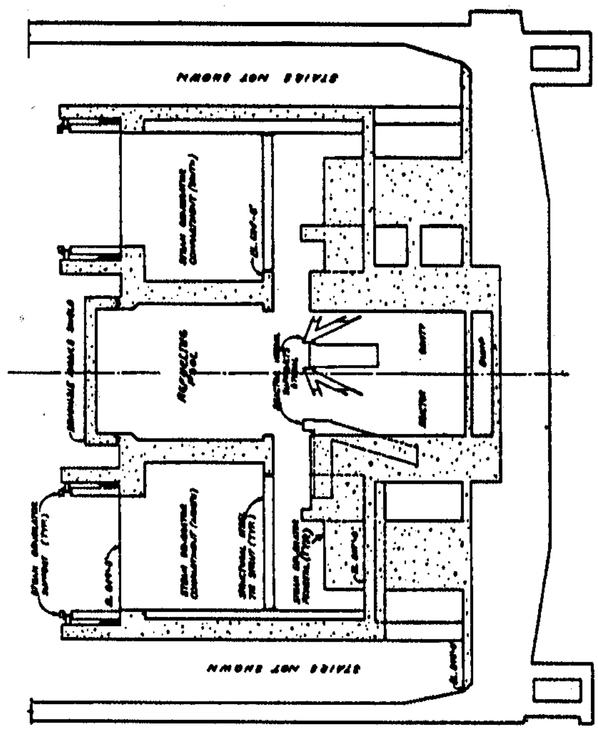
CONSTRUCTION OPENING TENDON DETENSIONING AND POST TENSIONING SEQUENCE



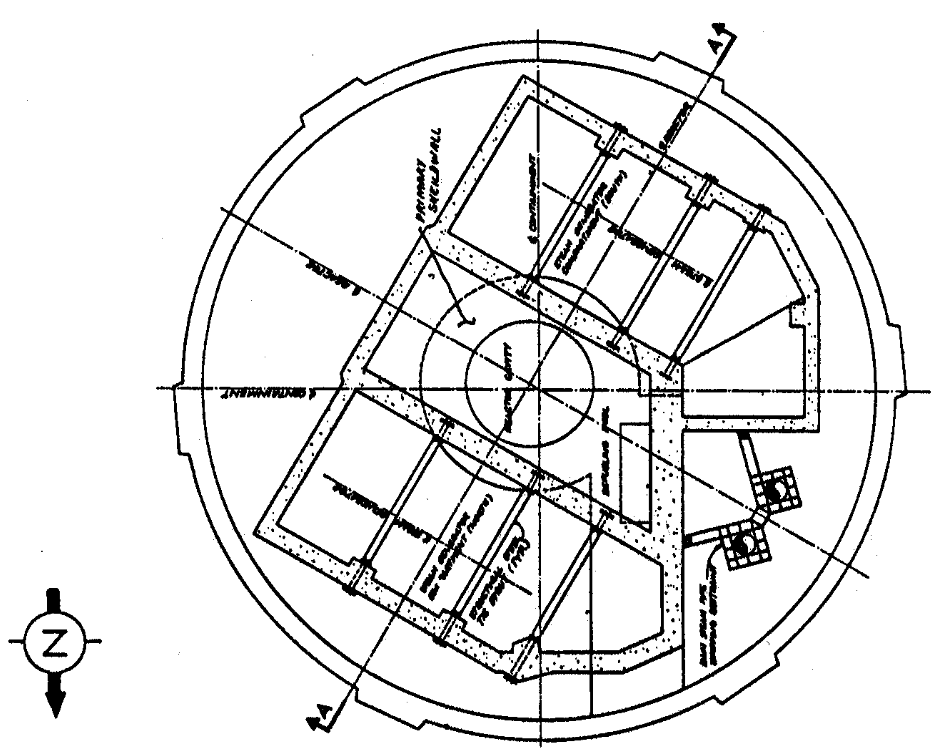
MISCELLANEOUS GAS SUPPLY SYSTEMS



CONTAINMENT STRUCTURE
INTERIOR CONSTRUCTION



SECTION A-A



PLAN @ EL. G2G'-C'