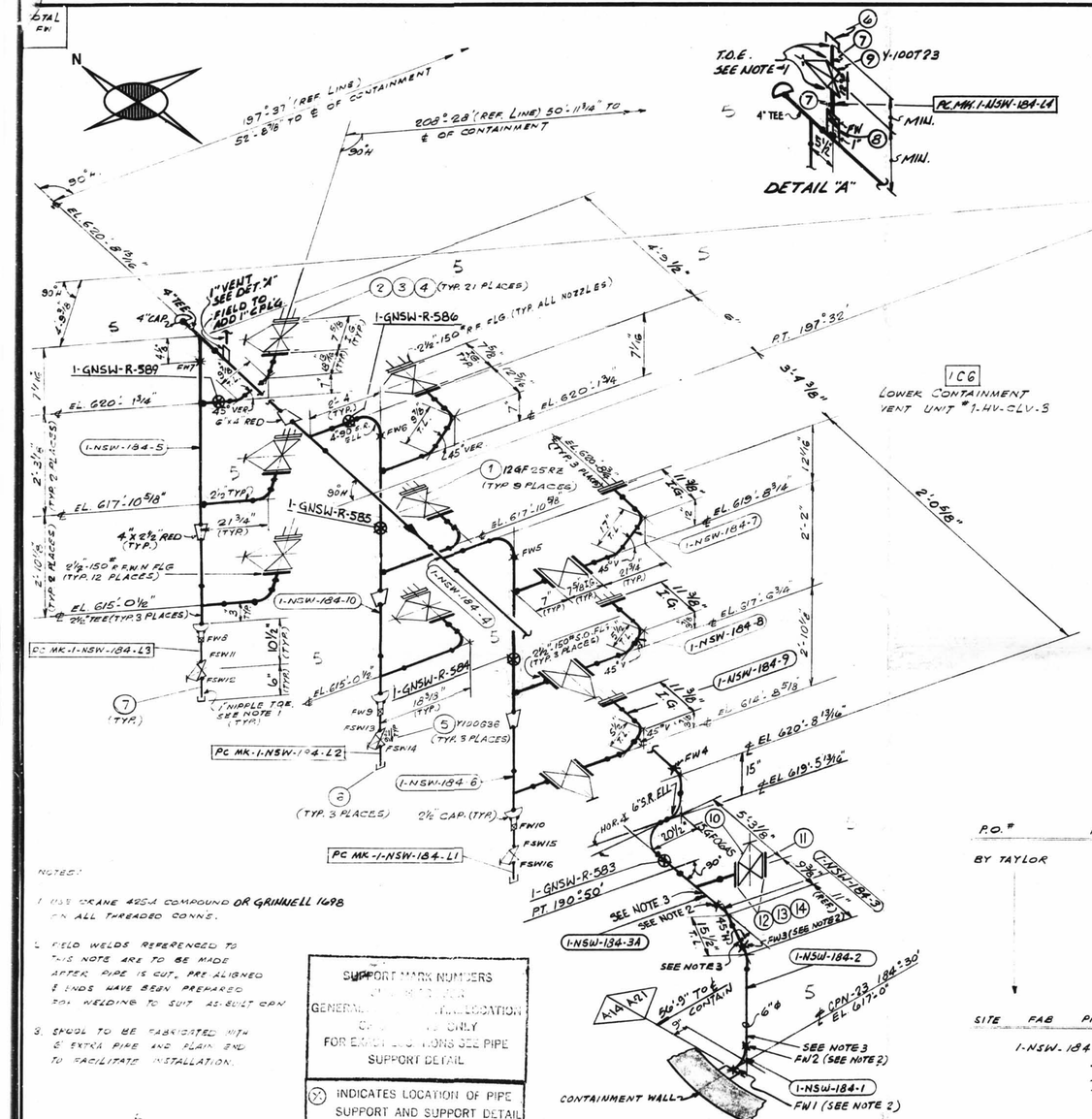
ISO SHT. NO. 2712

QSL	ITEM	QTY.	SIZE	MATERIAL DESCRIPTION	TAG No. OR ASTM MAT'L.	HEAT NO.
01	1	9	2½"	125# C.I. FLGD. GATE VA	12GF25RZ	
	2	21	2½"	1/16" THK. FULL FACE COMP. ASBESTOS RUBBER BONDED GASKET		
	3	84	5/16"	3" LG. HEX. HD. MACH BOLT	A-307 GR. B	
	4	84	5/16"	HEAVY HEX. NUT CL. 2 TOL	↓	
	5	3	1"	600# C.S. S.W. GATE VA	Y-100G33	
	6	4	"	3000# C.S. THD CAP	A-181 GR. I OR II	
	7	AS REQ'D	1"	PIPE (SCH. 80) SMLS C.S.	A-106 GR. B	
	8	1	1"	3000# S.W. HALF CPL'G. C.S.	A-181 GR. I OR II	
	9	1	1"	200# GLOBE VA. SCR'D. BRONZE OR BRASS	Y-100T23	
	10	1	6"	GATE VALVE, 150#, C.S., FLG'D	15GF06AS	
	11	1	6"	BLIND FLANGE, 150#, R.F., C.S.	A181/A105, GR. I/II	
	12	2	6"	GASKET, 1/16" THK., FULL F., COMP. ASB'S. RUBBER BONDED		
	13	16	3/4"	φ x 3½" LG HEX HEAD BOLT	A-307, GR B	
	14	16	3/4"	φ HEAVY HEX NUT	A-307, GR B	

REVISION RECORD

NO	DATE	DR. / CH.	DESCRIPTION	REMARKS
1	7/14/72	S.G. / R.P.	REVISED BY N.P.S DESIGNS REVISED FABRICATOR & ADDED DIM'S	– / FAB. ACTION REQ'D
2	7/27/72	A.S. / LdB	REVISED CONFIGURATION OF PCS. 1-NSW-184-1, 2&3 & ADDED PC. 1-NSW-184-3A REMOVED HOLDS. A.E.P. ARRG'T DWG. 1-5692 REV. 4	– / FAB. ACTION REQ'D
3	9/24/72	J.Q. / LdB	DIM'S 3'-4 3/8", 2'-0 5/8" & 11 3/8" WERE 3'-4 13/16", 2'-0 9/16" & 11 13/16" RESPECT. AEP ARRG'T DWG. 1-5692 REV. 4	— / FAB. ACTION REQ'D.
4	3/15/73	J.Q. / I.F.	REVISED BY W.R.S. DESIGN PKG. ADDED 1" EPL'G TO PC. 1-NSW-184-4, FW'S, ADDED 1" EPL'G & SLIP ON FL'G 1-NSW-184-4, DETAIL NOTE 2, BLK'D FW'S, REV. NOTE 1, QTY. & BILL ITEMS & BLK'D REV. NOTE 1, REV. AEP ARRG'T DWG. 1-5692 REV. 5	FIELD ACTION REQD / —
5	7/1/85	DW/gm / RER	PER RFC-DC-12-2812 ADDED 1" φ BRANCH CONN. & BLANKED OFF VALVE 15GF06AS, WELD SYMBOLS @ STUB IN CONNECTIONS, NECCESSARY ITEMS TO B/M, DRAIN DIM'S, SUPPORT DETAILS & SUPERSEDED HANGER ISO. 1-GNSW-184-1. REVISED VENT LOCATION @ DET "A", PIPING DIM'S S.R. ELL. TO L.R. ELL. ALL ABOVE TO REFLECT AS-BUILT CONDITION.	NO FIELD ACTION REQD



NOTES:

1. USE CRANE 425A COMPOUND OR GRINNELL 1698 ON ALL THREADED CONNS.
2. FIELD WELDS REFERENCED TO THIS NOTE ARE TO BE MADE AFTER PIPE IS CUT, PRE ALIGNED & ENDS HAVE BEEN PREPARED FOR WELDING TO SUIT AS-BUILT CONDITION.
3. SPOOL TO BE FABRICATED WITH 6" EXTRA PIPE AND PLAIN END TO FACILITATE INSTALLATION.

P.O. #	PIECE MARK
BY TAYLOR	1-NSW-184-1
	-2
	-3
	-3A
	-4
	-5
	-6
	-7
	-8
	-9
	-10

SITE FAB	PIECE MARK
1-NSW-184	-L1
	-L2
	-L3
	-L4

D-70

SUPPORT MARK NUMBERS
GENERAL [illegible] LOCATION ONLY
FOR EXACT LOCATIONS SEE PIPE SUPPORT DETAIL

(X) INDICATES LOCATION OF PIPE SUPPORT AND SUPPORT DETAIL NUMBER

QUA.			HANGER MARK NO.
6	20	5	1-GNSW-R-583
4	20	3	1-GNSW-R-584
2½	28	-	1-GNSW-R-585
1	3	5	1-GNSW-R-586
			1-GNSW-R-589

A-14 DESIGN SPEC. DCCPM 103 QCN
HANGER SEISMIC CLASS I
TEST REQUIREMENTS QL- 4
WELD PROCEDURE
QSL- 04 TESTING 100% R.T. & N.

A-81 DESIGN SPEC. DCCPM 102 QCS
HANGER SEISMIC CLASS II
TEST REQUIREMENTS QL- N/A
WELD PROCEDURE
QSL- 01 TESTING N/A

DESIGN SPEC.	SEE
HANGER SEISMIC CLASS	DESIGN
TEST REQUIREMENTS	CODE
MATERIAL CLASS	STAMP.

R.P. = WORKING POINT
T.O.E. = THREAD ONE END
T.B.E. = THREAD BOTH ENDS
B.O.E. = BEVEL ONE END
T.O.P. = TOP OF PIPE ELEV
Q.S.L. = MATERIAL QUALITY REQUIREMENTS
T.L. = TRUE LENGTH
B.B.E. = BEVEL BOTH ENDS
P.O.E. = PLAIN ONE END
P.B.E. = PLAIN BOTH ENDS
S.O.E. = SHAPE ONE END
B.O.P. = BOTTOM OF PIPE ELEV.
FW = FIELD WELD
H = HORIZONTAL
V = VERTICAL
SW = SHOP WELD
FSW = FIELD SHOP WELD
S = FIELD WELD
O = AUTOMATIC SHOP WELD
I = MANUAL SHOP WELD
# = VERIFY DIMENSION IN FIELD

PIPE												
A-53		A-106		A-376		A-312						
		GR. B										
STD.	XY	XXY	10	20	30	40	60	80	100	120	140	160
						X						
SMLS		WLDD										

FITTINGS		
A-105	A-234	A-182
A-403	A-181	

TESTING				
N.D.T. SEE DESIGN CODE STAMP				
M.T.	P.T.	R.T.	U.T.	
PRESSURE TEST				
MED.	PRESS.	DURATION		

ADDITIONAL

POUR/ZONE No. 1CG
REQUIRED COMPLETION DATE
FABRICATED BY TAYLOR

FLOW DIAGRAM 1-2-51-4.4
Q.S.L. SEE DWG.
WELD PROCEDURE CODE STAMP

NPS DESIGNS INC.
NEW YORK, N.Y.

FABRICATOR NOTE:
FABRICATION MUST CONFORM TO LATEST A.E.P. ARRGT. DWGS.

LIVSEY & COMPANY, INC.
INDIANA & MICHIGAN ELECTRIC CO.
DONALD C. COOK NUCLEAR PLANT

DWN: S.G. DATE: 6-30-72 CONTAINMENT BLDG.
CKD. R.P. DATE: 7/7/72
ISSUED
REF. DWG. 1-5692

DWG. NO. 1-NSW-184
REV. 5

1-NSW-184
Lower Containment Ventilation
Unit 3 Return Line