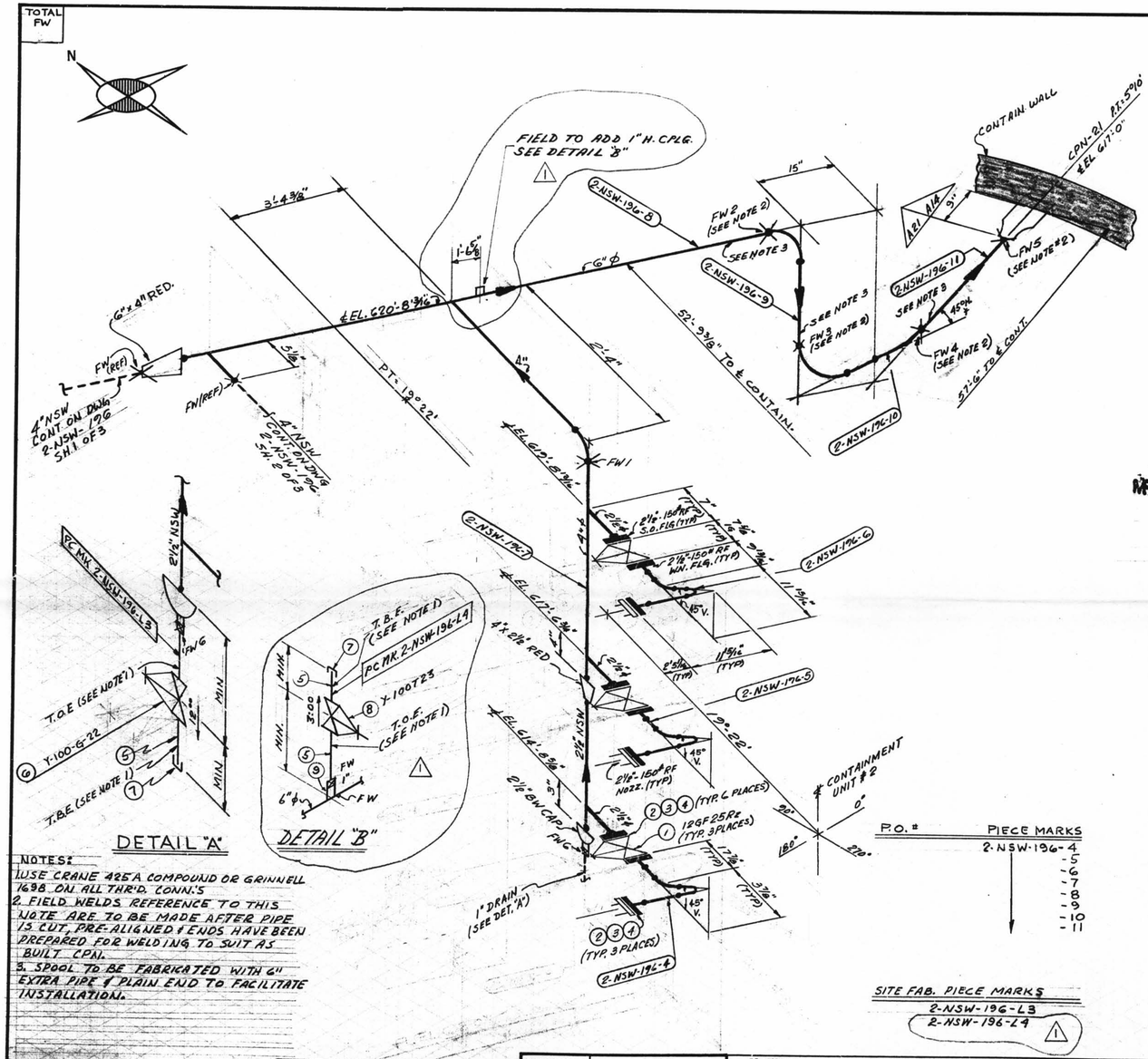
TOTAL FW



DETAIL "A"

DETAIL "B"

NOTES:
1. USE CRANE 425A COMPOUND OR GRINNELL 1698 ON ALL THR'D. CONN.'S
2. FIELD WELDS REFERENCE TO THIS NOTE ARE TO BE MADE AFTER PIPE IS CUT, PRE-ALIGNED & ENDS HAVE BEEN PREPARED FOR WELDING TO SUIT AS BUILT CPN.
3. SPOOL TO BE FABRICATED WITH 6" EXTRA PIPE & PLAIN END TO FACILITATE INSTALLATION.

P.O. #	PIECE MARKS
2-NSW-196-	4
	-5
	-6
	-7
	-8
	-9
	-10
	-11

SITE FAB. PIECE MARKS
2-NSW-196-L3
2-NSW-196-L4

SIZE	QUAN.	FW
6"	15	4
4"	6'	1
2 1/2"	11'	—
1"	2'	3

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

A-21 DESIGN SPEC. DCCPM 102QCS
HANGAR SEISMIC CLASS II
TEST REQUIREMENTS QL- N/A
WELD PROCEDURE
QSL- 01 TESTING

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

W.P. = WORKING POINT
T.O.E. = THREAD ONE END
T.B.E. = THREAD BOTH ENDS
S.E. = SEVEL ONE END
T.O.F. = TOP OF PIPE ELEV.
M.Q.R. = 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

⊠ = FIELD WELD
O = AUTOMATIC SHOP WELD
● = 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											
X													

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

ISO SHT. NO. 3451					
QSL	ITEM	QTY.	SIZE	MATERIAL DESCRIPTION	TAG No. OR ASTM MAT'L.	HEAT NO.
01	1	3	2 1/2"	125# CAST IRON FLG'D. GATE VA.	126F25RZ	
	2	9	2 1/2"	150# COMP. ASBESTOS RUBBER BONDED FULL FACE GSKT. 1/16" THK		
	3	36	5/8" Φ	x 3" LG. HEX. HD. MACH. BOLT.	A-307, GR B	
	4	36	5/8" Φ	HEAVY HEX NUT CLASS 2 TOL.	" "	
	5	AS REQ'D	1"	PIPE (SCH. 80) SMLS C.S.	A-106, GR B	
	6	1	1"	150# THRD GATE VA BRONZE OR BRASS	Y-100-G-22	
	7	2	1"	3000# C.S. THR'D. CAP	A-181 GR I OR II	
	8	1	1"	200# THD. BRASS OR BRONZE GLOBE VALVE	Y-100T23	
	9	1	1"	3000# S/S S.W.H. CPLG.	A-181 GR. I OR II	

REVISION RECORD

NO.	DATE	DWN/CKD	DESCRIPTION	REMARKS
1	8/30/79	J.C. / T.T.	ADDED 1'-6 5/8" DIA., DETAIL "B", 1" S.W.H. CPLG., ITEMS 8 & 9 IN B.M., PC. MK. 2-NSW-196-L4. QTY. IN ITEM 7 WAS 1. PER ARRGT. DWG. 2-5692 REV. 3	FIELD ACTION REQ.

D-12C

2-NSW-196 (Sheet 3 of 3)
Lower Containment Ventilation
Unit 1 Return Line

POUR/ZONE No. 2CG
REQUIRED COMPLETION DATE
FABRICATED BY TUBECO
FLOW DIAGRAM 2-5114A
Q.S.L. SEE DESIGN
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

L. AN. W.N.D. DATE: 5/24/78 CONTAIN. BL DG. #2
CKD. AM DATE: 6/27/78
ISSUED
REF. DWG. 2-5692, 2-5694A
DWG. NO. 2-NSW-196 SH 3 OF 3
REV. 1