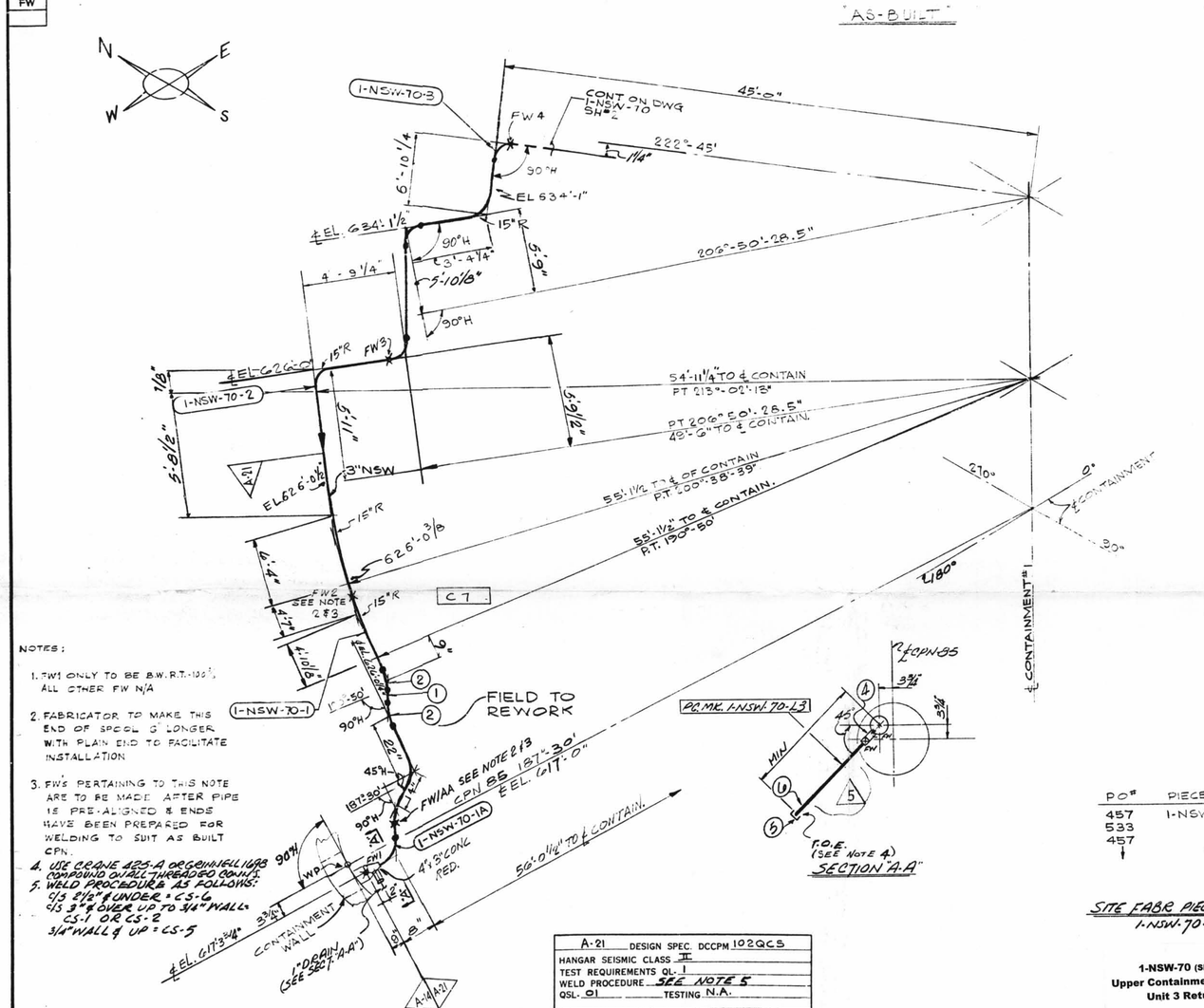
TOTAL FW

MATERIAL 130 GR 1.0 395

QSL	ITEM	QTY	SIZE	DESCRIPTION	TAG No. OR ASTM MAT'L	HEAT NO.
01	1	AS REQ'D	3"	PIPE, SMLS, CS, SCH 40	A-106 GR B	
↓	2	2	3"	90° LR ELL, BW, CS, SCH 40	A-234 GR WPB	
01	4	1	1"	3000# S.W. H. CPLG. C.S.	A-181 GR. I OR II	
	5	1	1"	3000# THRD. CAP C.S.	↓	
	6	AS REQ'D	1"	PIPE (SCH. 80) SMLS. C.S.	A-106 GR. B	



NOTES:

1. FW1 ONLY TO BE B.W. R.T.-100%, ALL OTHER FW N/A
2. FABRICATOR TO MAKE THIS END OF SPOOL 6" LONGER WITH PLAIN END TO FACILITATE INSTALLATION.
3. FW'S PERTAINING TO THIS NOTE ARE TO BE MADE AFTER PIPE IS PRE-ALIGNED & ENDS HAVE BEEN PREPARED FOR WELDING TO SUIT AS BUILT CPN.
4. USE CRANE 425-A OR GRIN-ELL 16GB COMPOUND ON ALL THREADED CONN'S.
5. WELD PROCEDURE AS FOLLOWS:
   6/3 2½" & UNDER = CS-6
   6/3 3" & OVER UP TO 3/4" WALL = CS-1 OR CS-2
   3/4" WALL & UP = CS-5

SIZE	QUAN.	FW
4"	—	1
3"	58'-0	9
1"	1'	2

REV.	DATE	DR. CHK	DESCRIPTION	REMARKS
1	12/2/71	SG GN	RELEASED PIPING AT CPN. ADDED: FW1AA; PC MK 1A; P.O.#; DESIGN CODE STAMP; NOTES 2&3; TOTAL NO. OF FW. REVISED: WELD PROCEDURE. PER DWG 1-5489A.	FIELD ACTION REQ'D. / FAB ACTION REQ'D.
2	4/10/72	JQ GN	REVISED PIPING & ADDED NOTE FOR FIELD REWORK FOR PC MK 1&1A. ADDED: ITEMS 1&2. DELETED: WELD PROCEDURE; TOTAL NO. OF FW'S. PER A.E.P. DWG 1-5489A-2.	FIELD ACTION REQ'D.
3	1-23-73	AAZ UP	ADDED: 1" DRAIN, SECTION "A-A" LIVSEY PC MK 1-NSW-70-L3, NOTE 4, ITEMS 3 THRU 6 IN BM. (PER AEP ARRG. T. 1-54G9A-3)	FIELD ACTION REQ'D. —
4	1/11/74	BR DTG	ADDED: NOTE #5, DIM. 1¼"-6'-10⅛", 3'-4¼", 5'-9", 5'-10⅛", 4'-9¼", 5'-1", 7/8", 5'-9½", 6'-4", 4'-7", 4'-10⅛", 22", 14", EL. 626'-0½", EL. 634'-1", 626'-0 3/8", DIM. 5'-9½" WAS 5'-9", 54'-11¼" WAS 55'-1½", 5" WAS 8½", EL. 634'-1½" WAS 634'-1", 626'-0½" WAS 621'-0" PER AS BUILT DWG. A.E.P. DWG. NO. 1-5489A-4	NO ACTION REQ'D.
5	3/2/77	WDC	AS PER RFC-DC-01-2007 REMOVED VA. FROM SECTION A-A	

PO#	PIECE MARK
457	1-NSW-70-1
533	-1A
457	-2
↓	-3

SITE FABR PIECE MARKS
1-NSW-70-L3

1-NSW-70 (Sheet 1 of 2)
Upper Containment Ventilation
Unit 3 Return Line

N.P.S. DESIGNS

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

LABOR COST CONTROL	
USE ONLY WITH	
PIPE SIZE	
SCHEDULE	
TYPE	
ISO START DATE	
ISO FINISH DATE	
WORK OPERATION	LINE ITEM NUMBER
HANGER INST.	
ERECT	
WELD	
RADIOG – X-RAY	
STRESS RELIEVE	
MISC. WORK	

LABOR COST CONTROL	
USE ONLY WITH	
PIPE SIZE	
SCHEDULE	
TYPE	
ISO START DATE	
ISO FINISH DATE	
WORK OPERATION	LINE ITEM NUMBER
HANGER INST.	
ERECT	
WELD	
RADIOG – X-RAY	
STRESS RELIEVE	
MISC. WORK	

A-21 DESIGN SPEC. DCCPM 102QCS
HANGAR SEISMIC CLASS II
TEST REQUIREMENTS QL. 1
WELD PROCEDURE SEE NOTE 5
QSL- 01 TESTING N.A.

A-14 DESIGN SPEC. DCCPM 103QCN
HANGAR SEISMIC CLASS I
TEST REQUIREMENTS QL. 4
WELD PROCEDURE SEE NOTE 5 (4)
QSL- 04 TESTING SEE NOTE 1

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

R.P. RUNNING POINT
T.O.E. THREAD ONE END
T.B.E. THREAD BOTH ENDS
B.O.E. BEVEL ONE END
T.U.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.
F.W.F. FIELD WELD
H. HORIZONTAL
V. VERTICAL
S.W. & S.NOP. SHOP WELD
F.W.F. FIELD SHOP WELD
M. FIELD WELD
O. AUTOMATIC SHOP WELD
P. MANUAL SHOP WELD
B. VERIFY DIMENSION IN FIELD

PIPE												
A-53	A-106 GR. B		A-376		A-312							
STD.	XY	XXY	10	20	30	☒ 40	60	80	100	120	140	160
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. 167
REQUIRED COMPLETION DATE
FABRICATED BY TUBECO

FLOW DIAGRAM 1-G-5114A
Q.S.L. SEE DESIGN
WELD PROCEDURE CODE STAMP

REVISION RECORD		
NO.	DATE	DESCRIPTION

LIVSEY & COMPANY, INC.
DONALD C. COOK NUCLEAR PLANT

DWN. LGR	DATE 7-14-71	CONTAINMENT BLDG
CKD. GN	DATE 7-20-71	DWG. NO. 1-NSW-70-
ISSUED		SH 1 OF 2
REF. DWG. 1-5489A		REV 5

D-58A