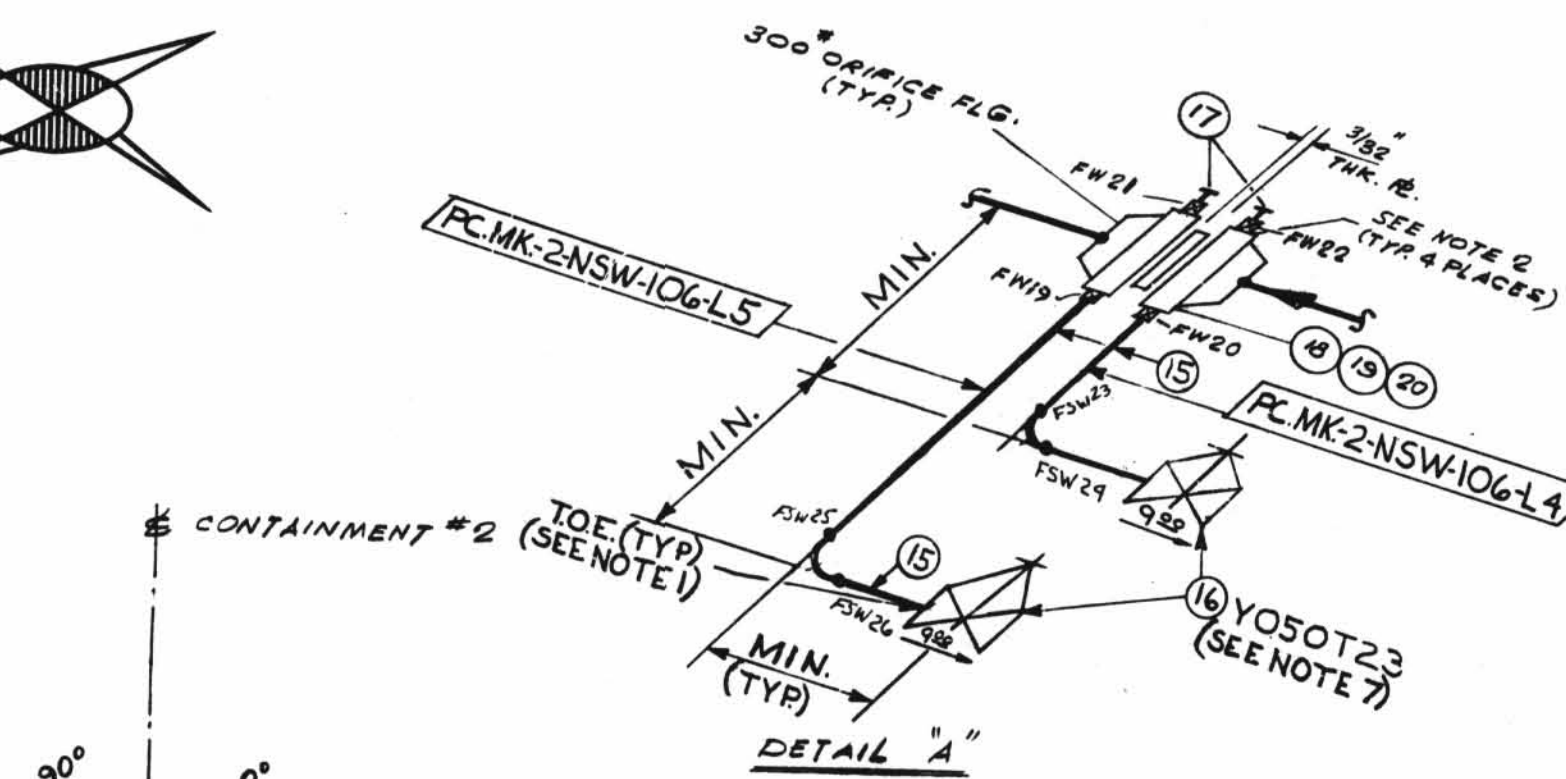
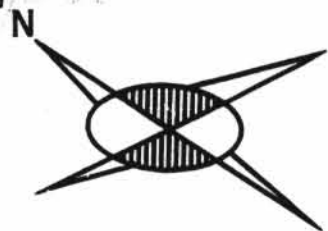
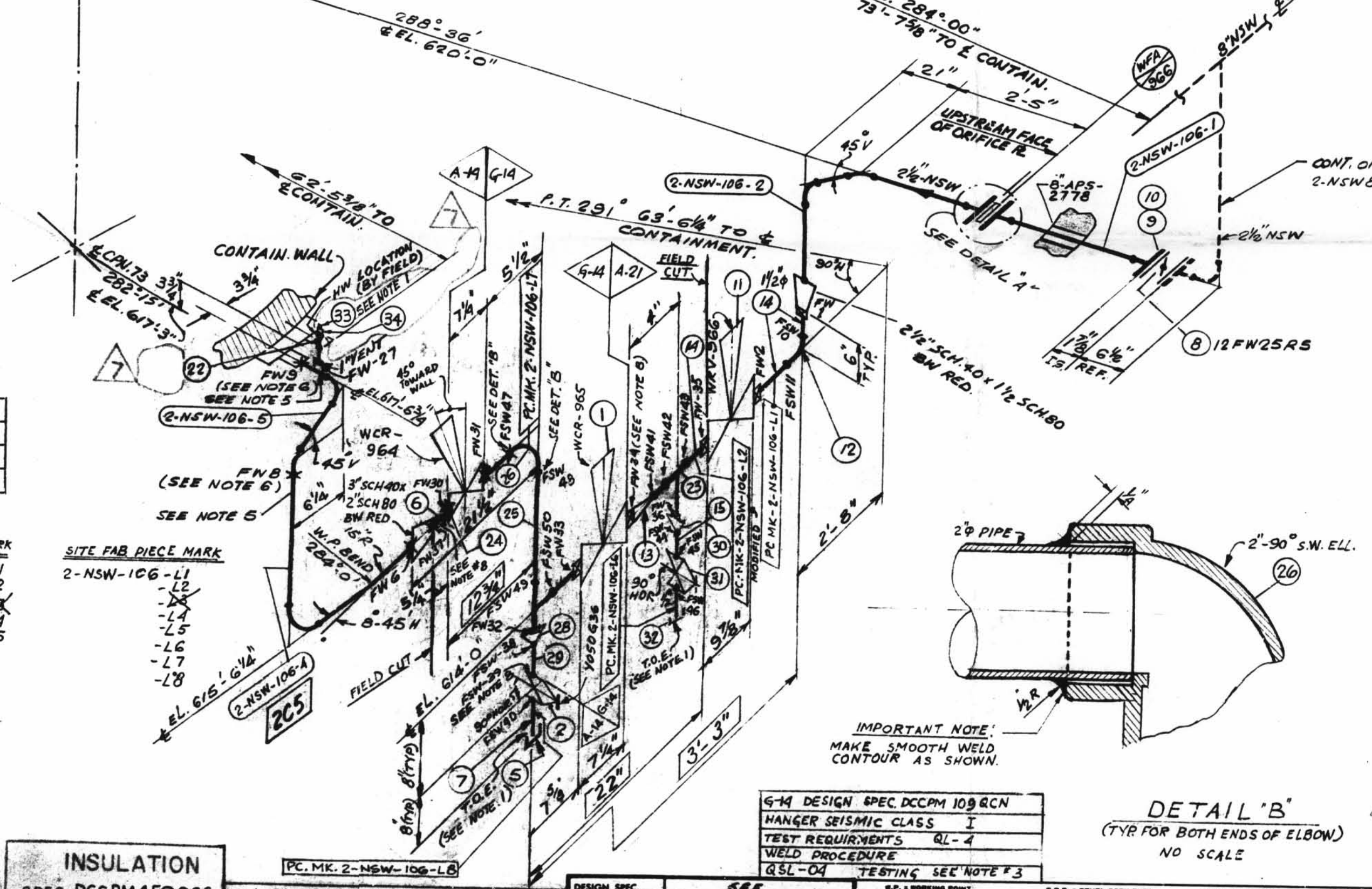


TOTAL
FW
29



- NOTES:
1. USE CRANE 425-A COMPOUND ON ALL THRD. CONNECTIONS.
 2. SORE OUT THRD TO SUIT 1/2\"/>
 3. BUTT WELD FW'S ARE RT-100% SOCKET WELD FW'S ARE RT OR PT-100%.
 4. WELDING PROCEDURE AS FOLLOWS:
2\"/>
 5. FABRICATOR TO MAKE THIS END OF SPOOL 6\"/>
 6. FW'S PERTAINING TO THIS NOTE ARE TO BE MADE AFTER PIPE IS CUT, PRE-ALIGNED & ENDS HAVE BEEN PREPARED FOR WELDING TO SUIT AS-BUILT CPN.
 7. TO SUIT CONDITIONS FIELD MAY REORIENT HANDWHEELS.
 8. PROVIDE BI-METALLIC WELDS (STAINLESS STEEL - CARBON STEEL).
 9. REMOVE BONNET BEFORE WELDING VALVE BODY TO PIPE LINE.



IMPORTANT NOTE:
MAKE SMOOTH WELD
CONTOUR AS SHOWN.

DETAIL 'B'
(TYP FOR BOTH ENDS OF ELBOW)
NO SCALE

FOR REV. 4 ONLY

SIZE	QUAN.	FW.
1 1/2"	3	6
2"	2	10
1 1/2"	1	5

PIECE MARK

661	2-NSW-106-1	-2
661	2-NSW-106-1	-2
660	2-NSW-106-1	-4
660	2-NSW-106-1	-5

SITE FAB PIECE MARK

2-NSW-106-L1	-L2
2-NSW-106-L1	-L3
2-NSW-106-L1	-L4
2-NSW-106-L1	-L5
2-NSW-106-L1	-L6
2-NSW-106-L1	-L7
2-NSW-106-L1	-L8

INSULATION
SPEC DCCPM450QCS
FOR REQUIREMENTS

LINE	NOM	REMARKS
1	3"	GLASS
2	2"	GLASS
3	1"	GLASS

DESIGN SPEC
HANGER SEISMIC CLASS
TEST REQUIREMENTS
WELD PROCEDURE
QSL-01

DESIGN SPEC DCCPM 102 QCS
HANGER SEISMIC CLASS
TEST REQUIREMENTS
WELD PROCEDURE
QSL-01

DESIGN SPEC
HANGER SEISMIC CLASS
TEST REQUIREMENTS
WELD PROCEDURE
QSL-01

DESIGN SPEC DCCPM 103 QCN
HANGER SEISMIC CLASS
TEST REQUIREMENTS
WELD PROCEDURE
QSL-01

DESIGN SPEC
HANGER SEISMIC CLASS
TEST REQUIREMENTS
WELD PROCEDURE
QSL-01

DESIGN SPEC DCCPM 104 QCN
HANGER SEISMIC CLASS
TEST REQUIREMENTS
WELD PROCEDURE
QSL-01

DESIGN SPEC
HANGER SEISMIC CLASS
TEST REQUIREMENTS
WELD PROCEDURE
QSL-01

DESIGN SPEC DCCPM 105 QCN
HANGER SEISMIC CLASS
TEST REQUIREMENTS
WELD PROCEDURE
QSL-01

DESIGN SPEC
HANGER SEISMIC CLASS
TEST REQUIREMENTS
WELD PROCEDURE
QSL-01

DESIGN SPEC DCCPM 106 QCN
HANGER SEISMIC CLASS
TEST REQUIREMENTS
WELD PROCEDURE
QSL-01

DESIGN SPEC
HANGER SEISMIC CLASS
TEST REQUIREMENTS
WELD PROCEDURE
QSL-01

DESIGN SPEC DCCPM 107 QCN
HANGER SEISMIC CLASS
TEST REQUIREMENTS
WELD PROCEDURE
QSL-01

DESIGN SPEC
HANGER SEISMIC CLASS
TEST REQUIREMENTS
WELD PROCEDURE
QSL-01

DESIGN SPEC DCCPM 108 QCN
HANGER SEISMIC CLASS
TEST REQUIREMENTS
WELD PROCEDURE
QSL-01

DESIGN SPEC
HANGER SEISMIC CLASS
TEST REQUIREMENTS
WELD PROCEDURE
QSL-01

DESIGN SPEC DCCPM 109 QCN
HANGER SEISMIC CLASS
TEST REQUIREMENTS
WELD PROCEDURE
QSL-01

ISO SHT. NO. 2108

QSL	ITEM	QTY	SIZE	MATERIAL DESCRIPTION	TAG NO. OR ASTM MAT'L	HEAT NO.
04	1	1	2"	S.W. DIAPH. CONTROL VA. S.S.	WCR-965	
	2	1	1/2"	600° S.W. C.S. GATE VALVE	Y050G36	
5	1	1/2"	3000° C.S. THRD CAP	A-181	GR. 100 II	
6	1	2"	PIPE (SCH. 80) SMLS. C.S.	A-181	GR. 100 II	
7	1	1/2"	PIPE (SCH. 80) SMLS. C.S.	A-181	GR. 100 II	
8	1	2 1/2"	125° C.I. WAFER BUTTERFLY VA.	12FW25RS		
9	4	5/8"	5" LG. HEX. HD. MACH. BOLT.	A-307GR.8		
10	4	5/16"	HEAVY HEX. NUT. CL. 2 TOL.			
11	1	1 1/2"	S.W. REGULATING VALVE	WCR-966		
12	1	1 1/2"	3000° C.S. S.W. 90° ELL.	A-181	GR. 100 II	
13	1	2 1/2"	3000° C.S. S.W. RED. INSERT.			
14	1	1 1/2"	PIPE (SCH. 80) SMLS. C.S.	A-181	GR. 100 II	
15	1	1 1/2"	PIPE (SCH. 80) SMLS. C.S.	A-181	GR. 100 II	
16	2	1/2"	200° THRD. GLOBE VA. OR BRASS	Y050T23		
17	2	1/2"	3000° C.S. S.W. PLUG	A-181	GR. 100 II	
18	2	2 1/2"	10" THK. SPIRAL WOUND, STYLE CB.	TYPE 304		
19	8	3/4"	4" LG. STUD BOLT	A-181	GR. 100 II	
20	16	3/4"	HEAVY HEX NUT	A-181	GR. 100 II	
21	1	1"	600° S.W. GLOBE VA. OR BRASS	Y-100T36		

REVISION RECORD				
NO.	DATE	CHK	DESCRIPTION	REMARKS
1	7-8-74	JM	REMOVED D. HOLDS ON PC.MK-2-NSW-106-L4#15 ADDED ITEM #21 ON B/M, INSULATION STAMP PO#660 & 661, NOTE #7, QUANTITY CHANGE ON ITEM #15 ON B/M, PER A.E.P. ARRTG DWG. 2-5567C-1	FIELD ACTION REQ'D
2	7-26-76	RGA	REVISED BY AEP DESIGN: PER RFC-12-671, REV'D; ITEM #2 Y-050G36 WAS CY-050G36, ADDED 1" VENT- VALVE N2 Y-100T23, 2" CHECK VALVE Y-200C36	ACTION REQ'D
3	12-2-76	DV	CHANGED VA. NO. TO Y200C36 WAS T36.	
4	1-14-77	K.A.	PER RFC-DC-12-2549 REPLACED 150L VA'S WCR-964 WCR-965 WITH DIAPH. CONTROL VA'S WCR-964 & 965 ADDED: PIPE SPEC G-19, DIM'S, WELD BOX, FW 30-31, FSW 38-50, ITEM N2'S 23 THRU 32 TO B/M, NOTES 8 & 9 PC.MK-2-NSW-106-L4#15 DELETED ITEM N2'S 3 & 4 & 21 FROM B/M, PC.MK-2-NSW-106-3 & PC.MK-2-NSW-106-L3, REV. ITEM N2'S IN B/M, MODIFIED PC.MK-2-NSW-106-L2.	FIELD ACTION REQ'D
5	9-23-77	KA	PER RFC-DC-12-2549, ROTATED ACTUATOR OF VALVE WCR-964 TO 15° VERT. FROM CONTAINMENT	FIELD ACTION REQ'D
6	6/21/82	KA	PER RFC-DC-12-2549 REVISED ORIENTATION OF WCR-964, BOXED DIMENSIONS INDICATED FIELD INFO. DIMS. 2 1/2" WAS 7 1/2" & 5 1/2" & 4" & 3 1/2" & 2 1/2" & 1 1/2" & 1" & 3/4" & 3/8" & 1/4" & 1/8" & 1/16" & 1/32" & 1/64" & 1/128" & 1/256" & 1/512" & 1/1024" & 1/2048" & 1/4096" & 1/8192" & 1/16384" & 1/32768" & 1/65536" & 1/131072" & 1/262144" & 1/524288" & 1/1048576" & 1/2097152" & 1/4194304" & 1/8388608" & 1/16777216" & 1/33554432" & 1/67108864" & 1/134217728" & 1/268435456" & 1/536870912" & 1/1073741824" & 1/2147483648" & 1/4294967296" & 1/8589934592" & 1/17179869184" & 1/34359738368" & 1/68719476736" & 1/137438953472" & 1/274877906944" & 1/549755813888" & 1/1099511627776" & 1/2199023255552" & 1/4398046511104" & 1/8796093022208" & 1/17592186044416" & 1/35184372088832" & 1/70368744177664" & 1/140737488355328" & 1/281474976710656" & 1/562949953421312" & 1/1125899906842624" & 1/2251799813685248" & 1/4503599627370496" & 1/9007199254740992" & 1/18014398509481984" & 1/36028797018963968" & 1/72057594037927936" & 1/144115188075855872" & 1/288230376151711744" & 1/576460752303423488" & 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