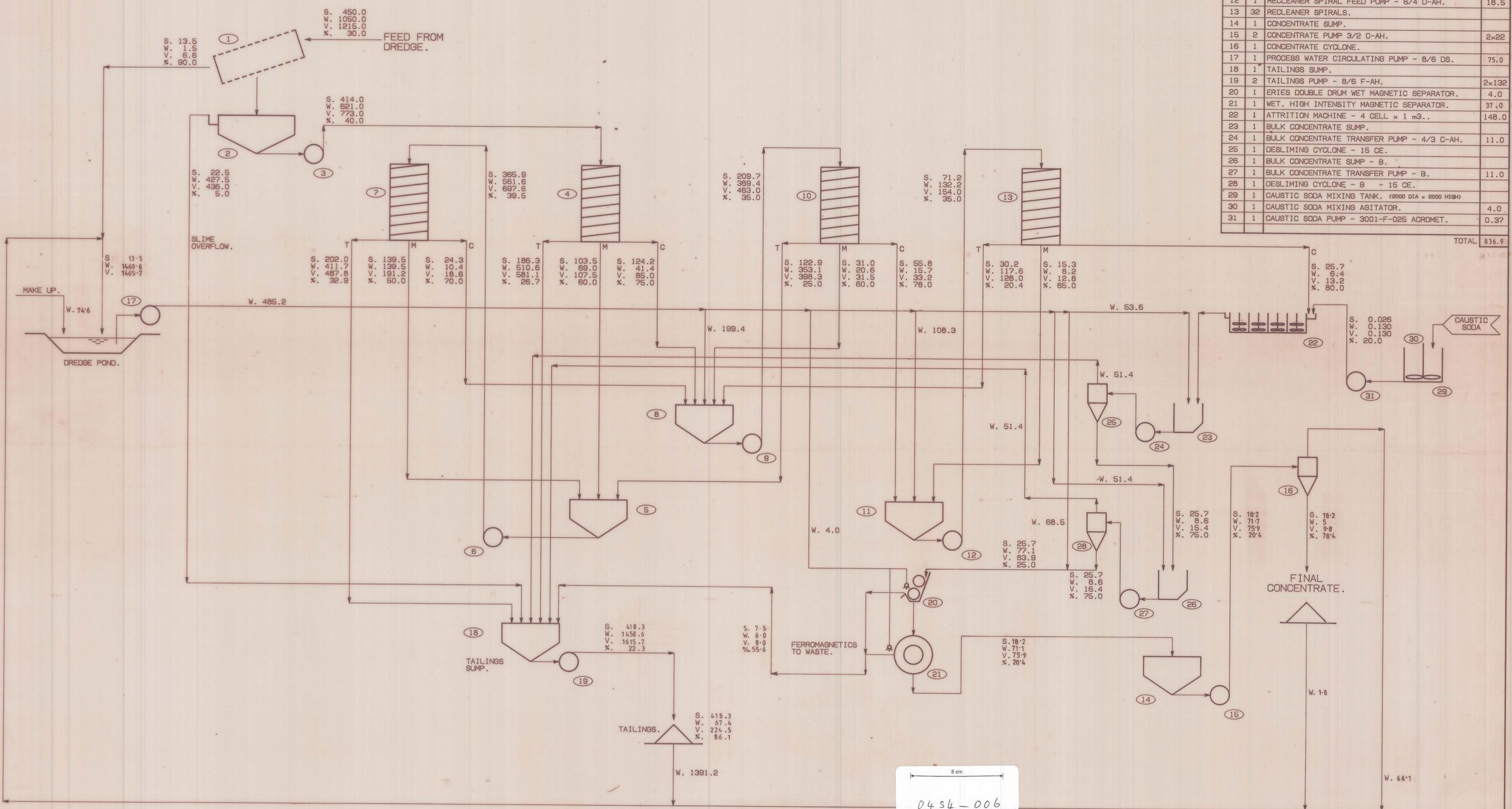


EQUIPMENT LIST			
ITEM	QTY	DESCRIPTION	KW
1	1	TROMMEL.	45.0
2	1	CONSTANT DENSITY TANK.	
3	1	ROUGHER SPIRAL FEED PUMP - 12/10 F-AH.	55.0
4	96	ROUGHER SPIRALS - TRIPLEX.	
5	1	MIDDINGS SUMP.	
6	1	MIDDINGS SPIRAL FEED PUMP 10/8 F-AH.	75.0
7	84	MIDDINGS SPIRALS - TRIPLEX.	
8	1	CLEANER SUMP.	
9	1	CLEANER SPIRAL FEED PUMP - 10/8 F-AH.	45.0
10	84	CLEANER SPIRALS - DUPLEX.	
11	1	RECLEANER SUMP.	
12	1	RECLEANER SPIRAL FEED PUMP - 6/4 D-AH.	18.5
13	32	RECLEANER SPIRALS.	
14	1	CONCENTRATE SUMP.	
15	2	CONCENTRATE PUMP 3/2 C-AH.	2x22
16	1	CONCENTRATE CYCLONE.	
17	1	PROCESS WATER CIRCULATING PUMP - 8/6 DS.	75.0
18	1	TAILINGS SUMP.	
19	2	TAILINGS PUMP - 8/6 F-AH.	2x132
20	1	ERIES DOUBLE DRUM WET MAGNETIC SEPARATOR.	4.0
21	1	WET, HIGH INTENSITY MAGNETIC SEPARATOR.	37.0
22	1	ATTRITION MACHINE - 4 CELL x 1 m3.	148.0
23	1	BULK CONCENTRATE SUMP.	
24	1	BULK CONCENTRATE TRANSFER PUMP - 4/3 C-AH.	11.0
25	1	DESLIMING CYCLONE - 15 CE.	
26	1	BULK CONCENTRATE SUMP - B.	
27	1	BULK CONCENTRATE TRANSFER PUMP - B.	11.0
28	1	DESLIMING CYCLONE - B - 15 CE.	
29	1	CAUSTIC SODA MIXING TANK. (2000 DIA x 2000 HIGH)	
30	1	CAUSTIC SODA MIXING AGITATOR.	4.0
31	1	CAUSTIC SODA PUMP - 3001-F-025 ACROMET.	0.37
TOTAL			836.9



LEGEND.
 S = SOLIDS FLOW - tonnes/hr.
 W = WATER FLOW - m³/hr.
 V = VOLUMETRIC FLOW - m³/hr.
 % = PULP DENSITY - % Solids.

NATIONAL MINERAL SANDS PTY. LTD. NARACOOPA MINERAL SANDS PLANT (KING ISLAND) PROPOSED WET PLANT FLOWSHEET		
APP.	D.S.F.	WARMAN PROJECT ENGINEERING
CHECK		
B MODIFIED.	DAO 23/6	OFFICE OF ORIGIN : SYDNEY C.A.D.
A NEW EQUIPMENT ADDED & FLOWS MODIFIED.	DAO 20/6	
DATE	18/5/89	AI-1001-0-057
SCALE	N.T.S.	
REV		B

0454-006