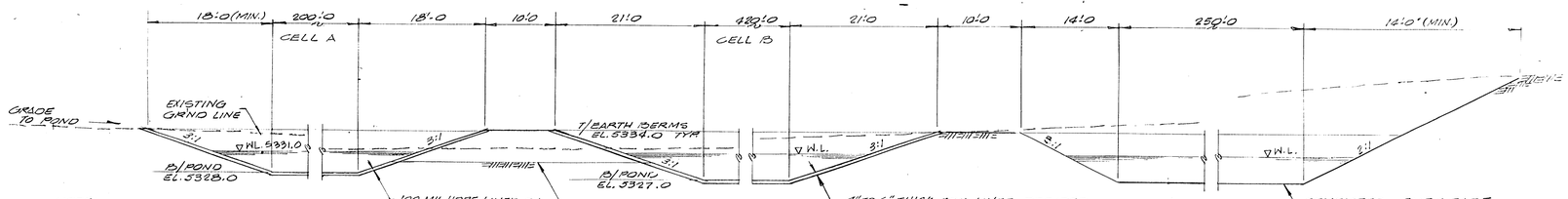
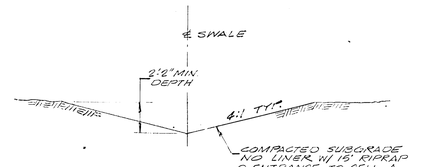
01-34-005

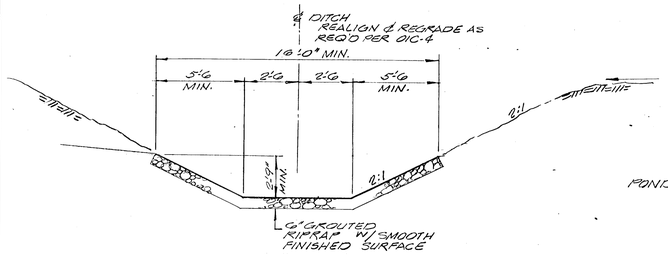


NOTE:
DESIGN HIGH WATER LEVEL (W.L.) = EL. 5331.0 TYP ALL CELLS FOR STORAGE. WATER LEVEL MAY OCCASIONLLY EXCEED 5331.0 IN INDIVIDUAL CELLS DUE TO WAVE ACTION OR DIFFERENTIAL GRADIENT REQUIRED TO MOVE WATER BETWEEN CELLS.

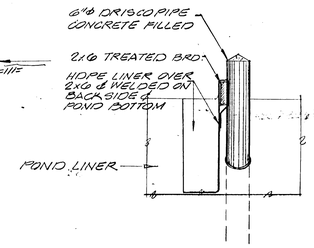
A / 01C-4 POND NO. 1 EXPANSION SECTION
SCALE: 1/8"=1'-0"



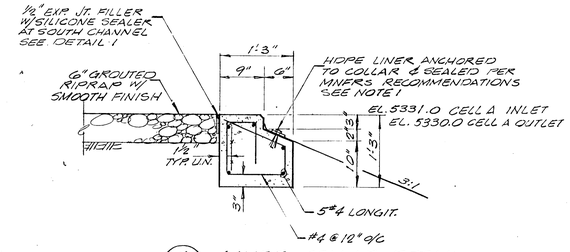
H / 01C-4 NORTH SWALE SECTION
SCALE: 1/4"=1'-0"



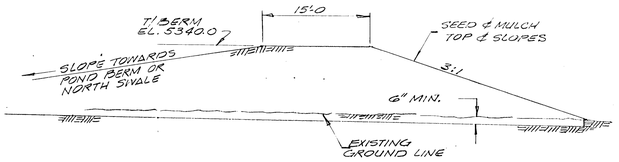
P / 01C-4 SOUTH CHANNEL SECTION
SCALE: 3/8"=1'-0"



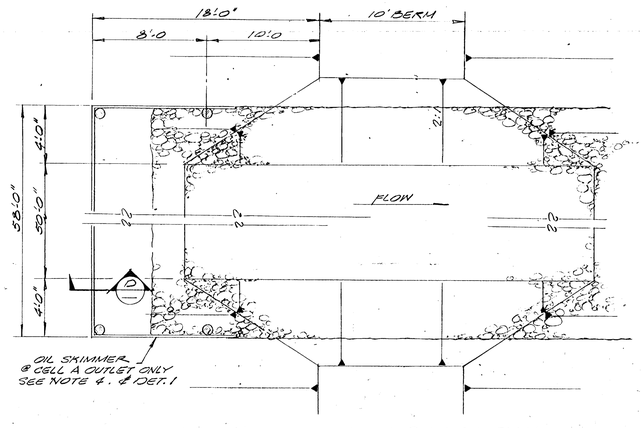
1 / — OIL SKIMMER END DETAIL
SCALE: 3/4"=1'-0"



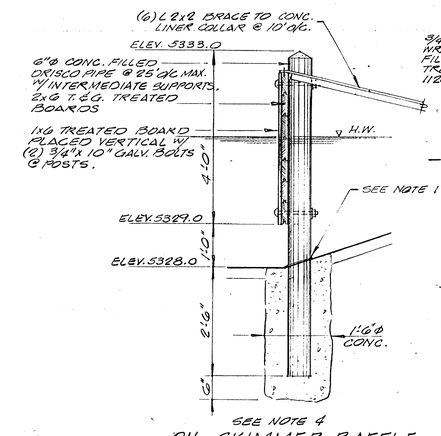
G / 01C-4 LINER COLLAR DETAIL
SCALE: 1"=1'-0"



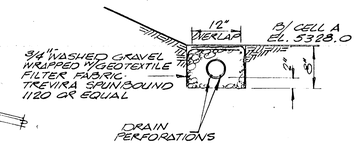
J / 01C-4 TYPICAL MAIN DRAINAGE BERM SECTION
SCALE: 1/8"=1'-0"



CELLS A&B OVERFLOW OUTLET PLAN
SCALE: 1/4"=1'-0"



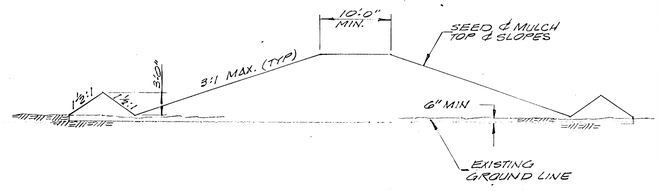
D / — OIL SKIMMER BAFFLE SECTION
SCALE: 3/4"=1'-0"



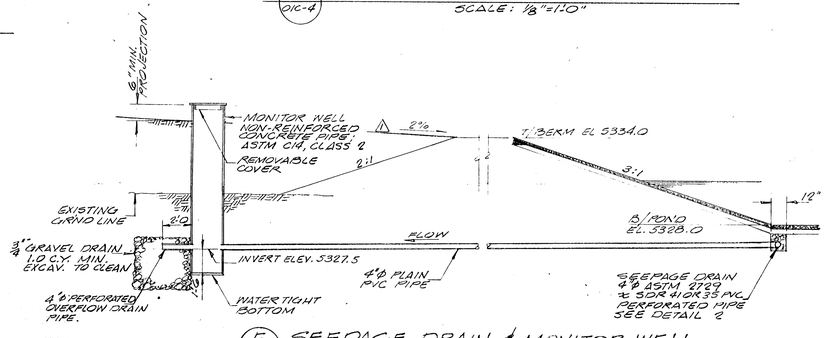
2 / — SEEPAGE DRAIN
SCALE: 1"=1'-0"

DELETED

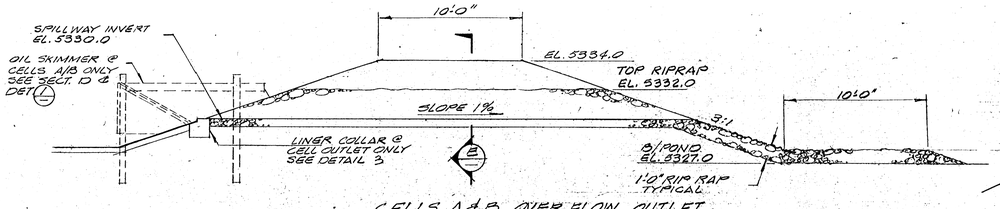
3 / — DETAIL
SCALE: 1"=1'-0"



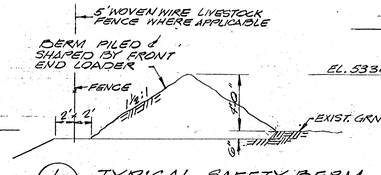
K / 01C-4 TYPICAL STOCKPILE SECTION
SCALE: 1/8"=1'-0"



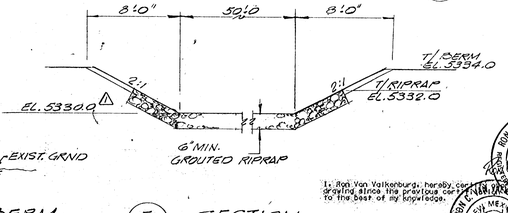
F / 01C-4 SEEPAGE DRAIN & MONITOR WELL
SCALE: 1/4"=1'-0"



C / 01C-4 CELLS A&B OVERFLOW OUTLET SECTION
SCALE: 1/4"=1'-0"



L / 01C-4 TYPICAL SAFETY BERM
SCALE: 1/4"=1'-0"



E / 01C-4 SECTION
SCALE: 1/4"=1'-0"

1. HDPE LINER SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS INCLUDING TERMINATION & SEALING LINER AT PENETRATIONS. LINER SHALL BE DESIGNED SO AS TO ENABLE POND TO BE CLEANED WITH A 938 LOADER HAVING SYDS TO HOLD BUCKET. 8" HDPE LINER SURFACE
2. FINAL MIX DESIGN AND COMPACTION OF SOIL LINER SHALL BE PER SOIL CONSULTANT TO ACHIEVE PERMEABILITY OF 1×10^{-7} CM/SEC.
3. ALL DISTURBED AREAS SHALL BE RECLAIMED IN ACCORDANCE WITH OSM-APPROVED STD NAVAJO MINE PROCEDURES.

FOR MORE SPECIFIC LINER DETAILS SEE CONSTR. DWGS BY SCHLEGAL LINING TECHNOLOGY CO. NOS. 1628, 1682 & 1684.

EXHIBIT II-25

I, Ron Van Valkenburg, hereby certify that the above grading since the previous certification is true and correct to the best of my knowledge.

RON E. VAN VALKENBURG NEW MEXICO 9263 REGISTERED PROFESSIONAL ENGINEER 4-21-95

AS-BUILT

CHARLES S. BAIR NEW MEXICO 7516 REGISTERED PROFESSIONAL ENGINEER 4-20-95

NOTE:
AS BUILT DETAILS ARE AS PROVIDED BY U.I.I.

REFERENCE DWGS	
01-34-004	01C-4 PLOT, GRADING & DRAINAGE NO. 3
DRAWING NO.	TITLE

REVISIONS NO.	BY	DATE	CKD	DESCRIPTION
5	JG	8/19/93		ADD EXHIBIT NO. AND CHANGE CO. NAME
4	KD	9-11-85	MLH	ISSUE FOR AS BUILT CHANGES FOLLOWING UII REVIEW BUL. D-005
3	RJ	8/29/85	MLH	ISSUE FOR AS BUILT BUL. D-004
2	RJ	7/3/85	PSB	REDESIGN BERMS & POND BUL. D-003
1	RJ	6/10/85	PSB	FLOWS & DETAILS TO MATCH HYDROLOGICAL DESIGN BUL. 001
0	RJ	5/30/85	MLH	ISSUE FOR CONSTR. TL-005
A	RJ	5/30/85	MLH	ISSUE FOR APPR. TL-004

REVISIONS NO.	BY	DATE	CKD	DESCRIPTION

APPROVALS DEPT	REV A	0	1	2	3	4
ARCH						
CIV/STRL	MLH	MLH	MLH	MLH	MLH	MLH
MECH						
ELECT						
INSTM						
PIPING						
SAFETY						
DEPT MGR	RCW	RCW	RCW	RCW	RCW	RCW
PROJECT	RJ	RJ	RJ	RJ	RJ	RJ

SCALE AS NOTED	DATE
DRAWN BY R. JEWELL	MAY '85
DESIGNED BY M. THORNE	MAY '85
CHECKED BY P. BAIR	MAY '85
CLIENT APPROVALS	
REV. BY	DATE
3/4	
0/A	9/4/85
1	
2	7/2/85

MORRISON-KNUDSEN ENGINEERS, INC.
A MORRISON-KNUDSEN COMPANY

NAVAJO MINE PROJECT - AREA I
FRUITLAND, NEW MEXICO
BHP MINERALS INTERNATIONAL

DRAWING TITLE PHASE 2
WASTEWATER COLLECTION/TREATMENT POND NO.1 EXPANSION & CHANNEL SECTIONS & DETAILS

CONTRACT NO. 1724-10
30 x 42
DRAWING NO. 01-34-005
REFERENCE NO. 01C-5
REV 4