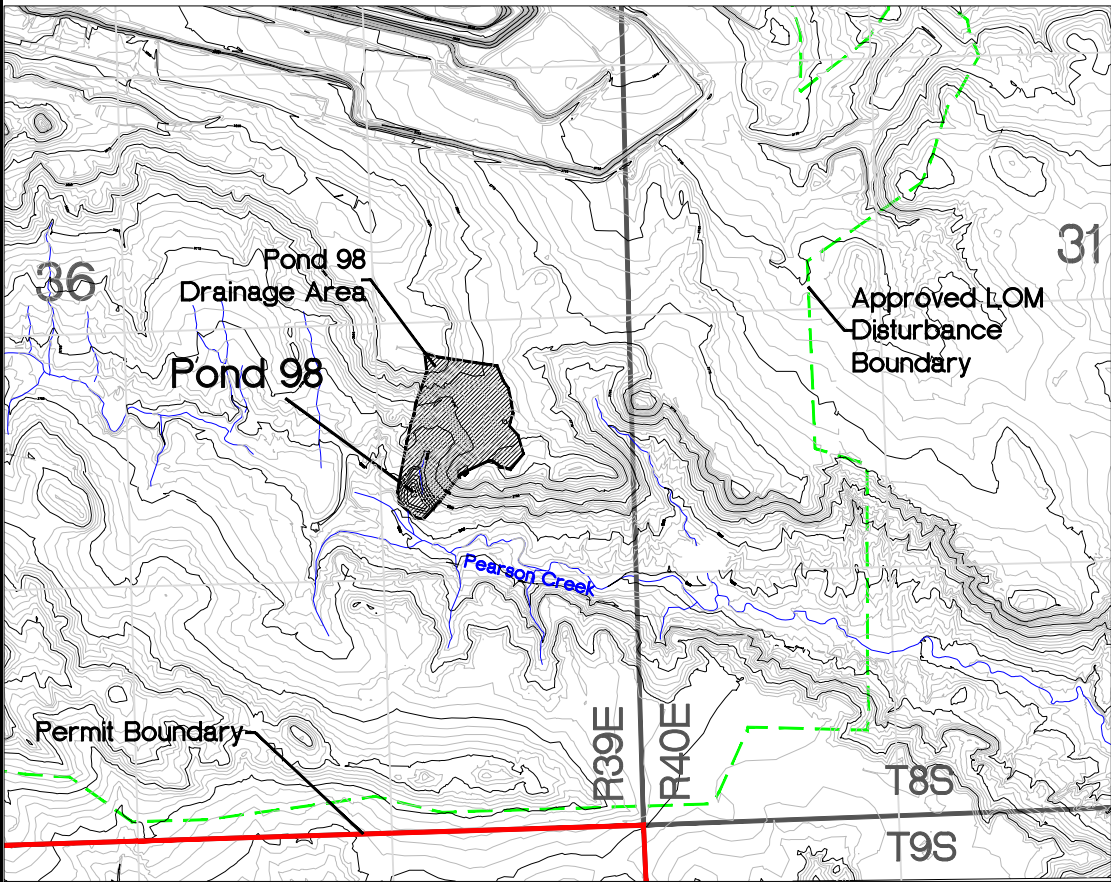
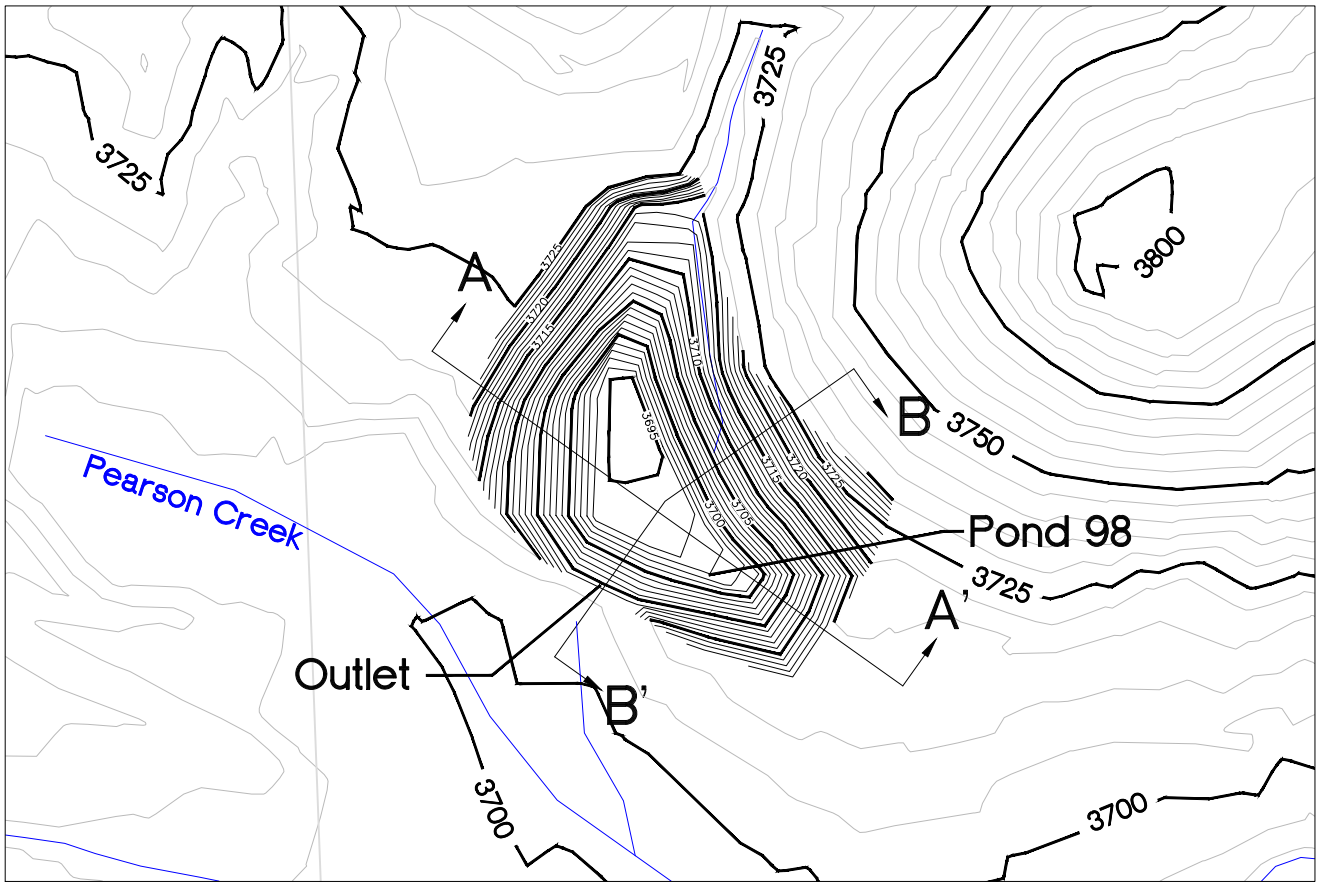




LOCATION MAP

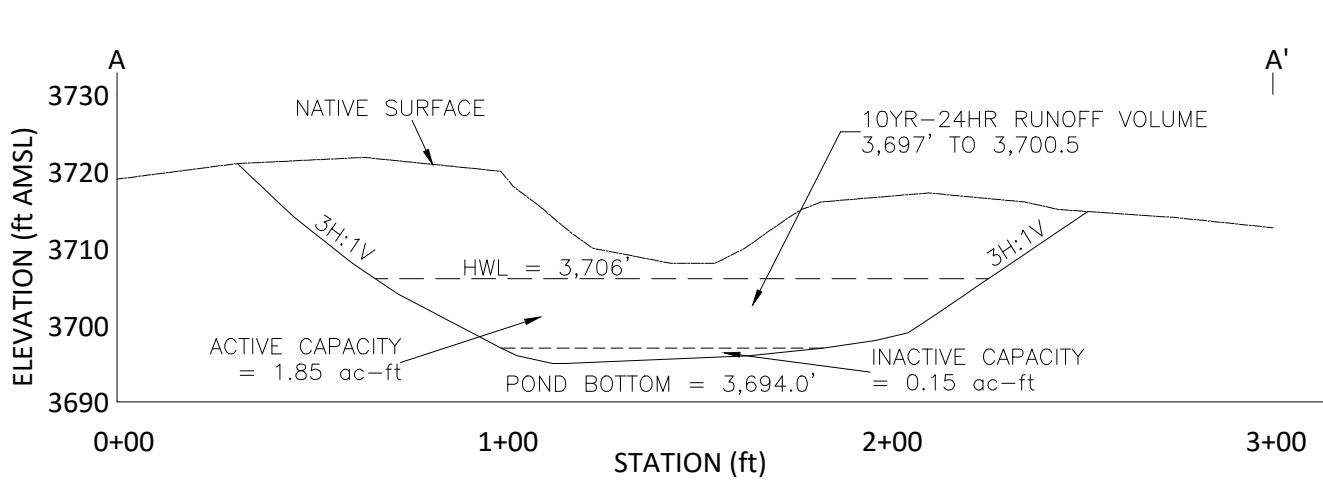
SCALE: 1" = 1,000', C.I. = 5'

POND IS LOCATED PRIMARILY IN NESE OF SECTION 36, T8S, R39E.



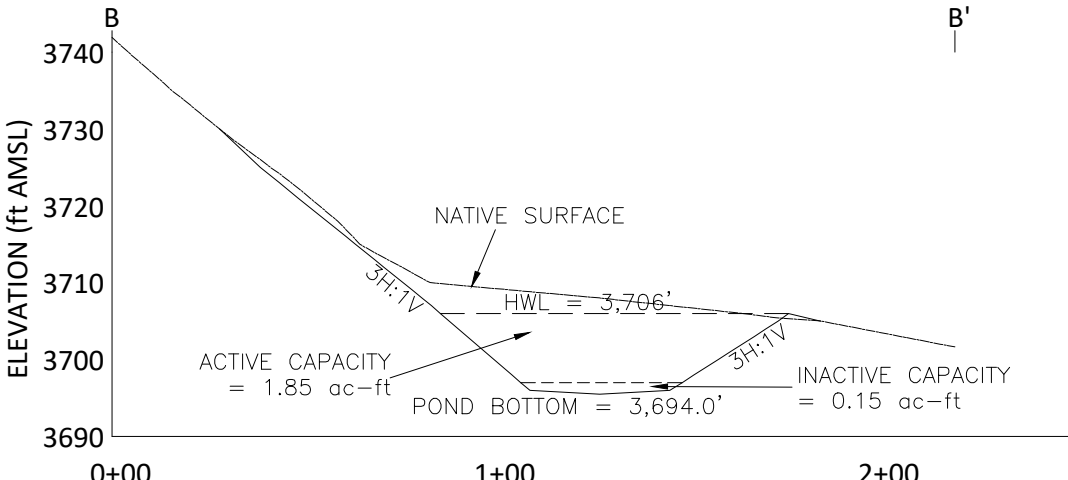
PLAN MAP

SCALE: 1" = 100', POND C.I. = 1', OUTER C.I. = 5'



POND PROFILE A-A'

SCALE: H: 1" = 50', V: 1" = 25'



POND PROFILE B-B'

SCALE: H: 1" = 50', V: 1" = 25'

AREA-ELEVATION-CAPACITY TABLE				
ELEVATION (FT AMSL)	AREA (ACRES)	INCREMENTAL CAPACITY (ACRE-FEET)	CUMULATIVE CAPACITY (ACRE-FEET)	USE
3,694.00	0.00	0.01	0.00	
3,695.00	0.03	0.05	0.01	INACTIVE CAPACITY VOLUME = 0.15 AC-FT.
3,696.00	0.08	0.09	0.06	
3,697.00	0.10	0.11	0.15	sediment storage
3,698.00	0.12	0.13	0.26	
3,699.00	0.15	0.16	0.40	ACTIVE CAPACITY VOLUME = 1.85 AC-FT.
3,700.00	0.17	0.18	0.55	
3,701.00	0.19	0.20	0.73	10-YEAR / 24-HOUR RUNOFF VOLUME = 0.64 AC-FT.
3,702.00	0.21	0.23	0.94	
3,703.00	0.24	0.25	1.16	
3,704.00	0.27	0.28	1.42	
3,705.00	0.29	0.31	1.70	
3706.00	0.32		2.00	
HIGH WATER LINE = 3,706.00 FT. AMSL, TOTAL CAPACITY = 2.00 AC-FT.				

POND 98 DRAINAGE AREA DATA

TOTAL DRAINAGE AREA = 7.3 acres
LONGEST WATERCOURSE = 975 ft
AVERAGE LAND SLOPE = 22.51%
CURVE NUMBER = 87 (Disturbed Mine Land)
SOILS = Hydrologic Soils Group C
TIME OF CONCENTRATION = 0.086 Hours

RUNOFF ESTIMATE TO POND 98

RAINFALL DISTRIBUTION = SCS TYPE II
PRECIPITATION (10YR-24HR) = 2.19 in
PEAK Q (10YR-24HR) = 11.94 cfs
VOLUME (10YR-24HR) = 0.64 ac-ft
DESIGN METHOD = SCS RUNOFF CURVE NUMBER METHOD AND SCS GRAPHICAL PEAK DISCHARGE METHOD (NRCS TR-55 METHOD)

POND 98 DESIGN CAPACITY

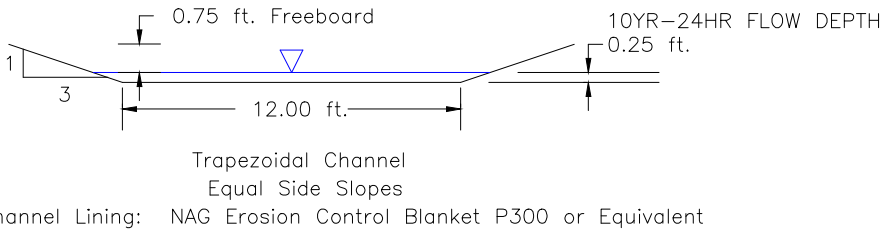
SEDIMENT CAPACITY (0.02 ac-ft per acre) = 0.15 ac-ft
10YR-24HR RUNOFF VOLUME = 0.64 ac-ft
TOTAL DESIGN CAPACITY (MINIMUM) = 0.79 ac-ft

CERTIFICATE OF ENGINEER

I, Owen Lindblom, hereby certify that this map and drawing was prepared by myself or under my direct supervision and that they correctly represent the facilities and conditions described in the accompanying application.



OWEN D. LINDBLOM, P.E. No. 36748PE



INLET CHANNEL AND EROSION PROTECTION

SCALE: AS SHOWN

INLET CHANNEL HYDRAULICS

CHANNEL TYPE	=	TRAPEZOIDAL, EQUAL SIDE SLOPES	RETARDANCE CLASS	=	C
BOTTOM WIDTH	=	12 ft	VEGETATION TYPE	=	BUNCH TYPE
SIDE SLOPES	=	3H:1V	VEGETATION DENSITY	=	FAIR (50-75%)
MAXIMUM SLOPE	=	33% (POND FACE SLOPE)	SOIL TYPE	=	SILT LOAM
10YR-24HR PEAK FLOW	=	11.94 cfs	VELOCITY	=	3.7 ft/s
CHANNEL LINING	=	N.A.G. P300 EROSION CONTROL BLANKET (PERMANENT) WITH VEGETATION	NORMAL DEPTH	=	0.25 ft
			MANNING'S N	=	0.088
			PERMISSIBLE SHEAR STRESS	=	8 lbs/ft ²
			CALCULATED SHEAR STRESS	=	5.21 lbs/ft ²



		SPRING CREEK MINE P.O. BOX 67, DECKER, MT 59025 PHONE: (406) 757-2581	
DATE 6/08/20 ODL	REVISION As-Built Conditions	Sediment Control Pond 98 Design As-Built	
DESIGN EMD	DRAWN EMD	DATE 11/17	SHEET 1 OF 1
SCALE As Shown	CONTOUR INTERVAL As Shown	FILE NUMBER Appkib_Pond_98_MR257_20200526.dwg	