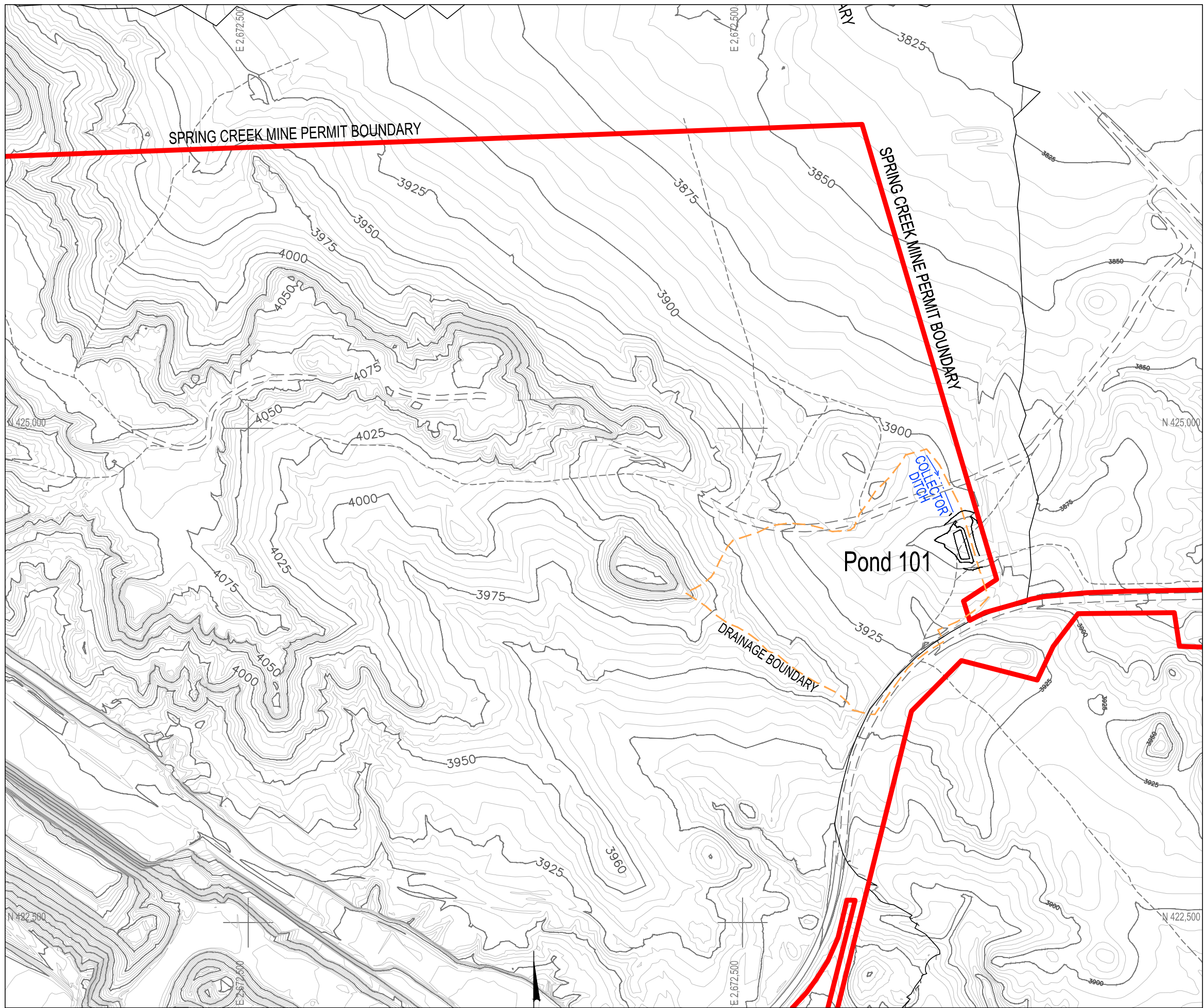
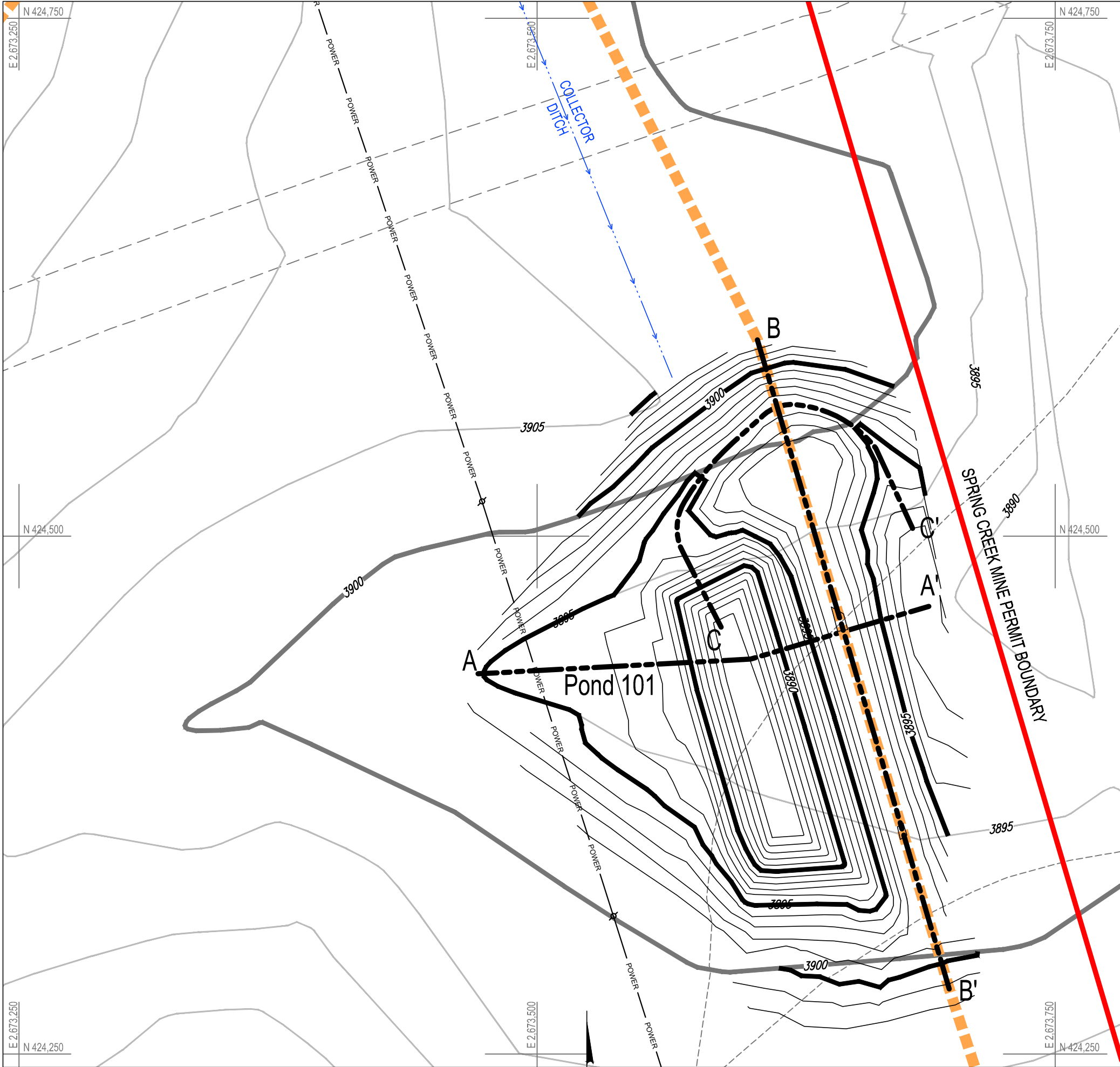




LOCATION MAP
SCALE: 1" = 500, C.I. = 5'



PLAN VIEW
SCALE: 1" = 50'
C.I. = 5'
C.I. = 1" Inside Pond

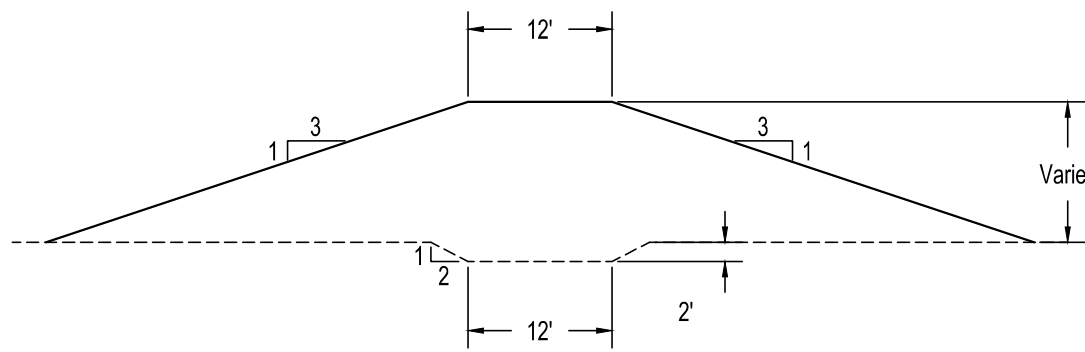
AREA CAPACITY TABLE

Elevation	Area (sf)	Area (ac)	Ave Area	Incr. Cap	Cum. Cap
3884	0	0.000			0
3885	1557	0.036	0.02	0.02	0.02
3886	2447	0.056	0.05	0.05	0.06
3887	3333	0.077	0.07	0.07	0.13
3888	4279	0.098	0.09	0.09	0.22
3889	5297	0.122	0.11	0.11	0.33
3890	6383	0.147	0.13	0.13	0.46
3891	7,541	0.173	0.16	0.16	0.62
3892	8,758	0.201	0.19	0.19	0.81
3893	10,451	0.240	0.22	0.22	1.03
3894	13,595	0.312	0.28	0.28	1.30
3895	19,145	0.440	0.38	0.38	1.68
3895.45	21,054	0.483	0.46	0.21	1.89

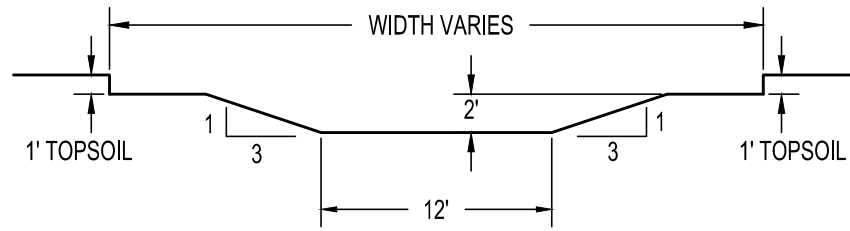
Inactive Capacity = 0.33 ac-ft

Normal Operating Pool = 1.56 ac-ft
HWL

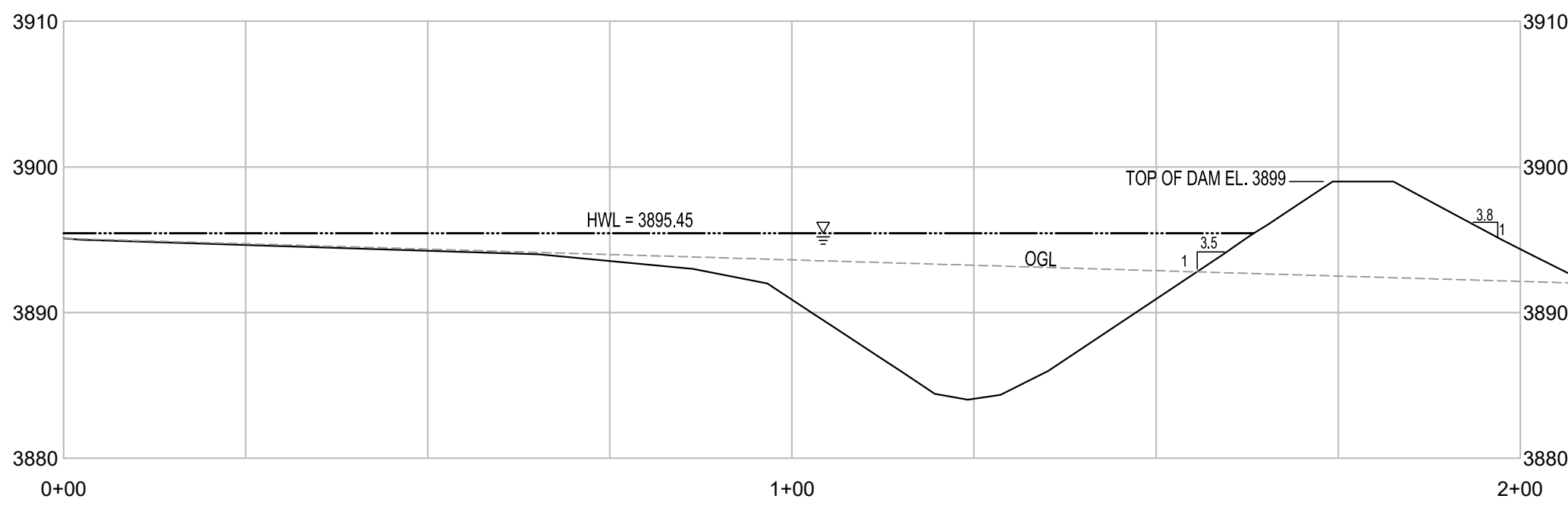
Note: Active capacity to be used for pollution control (dust abatement)
Active capacity will be pump discharged to a water truck



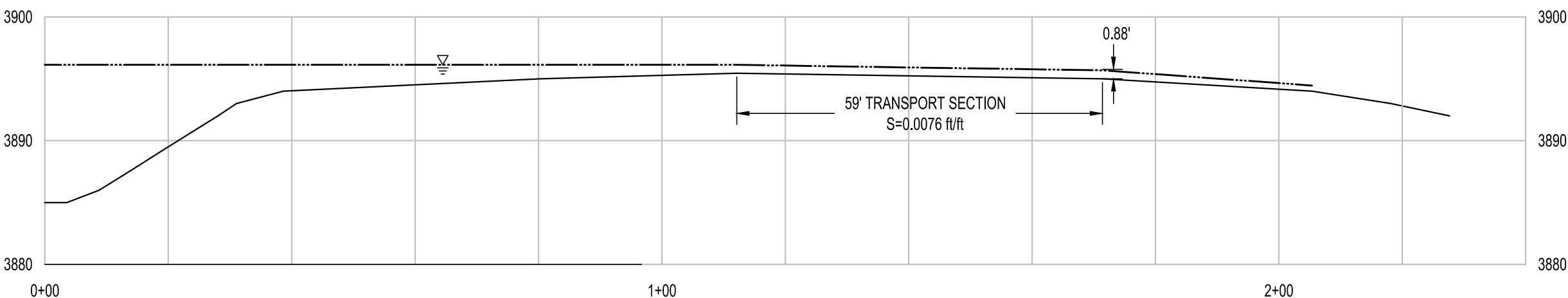
TYPICAL DAM SECTION
SCALE: 1" = 20'



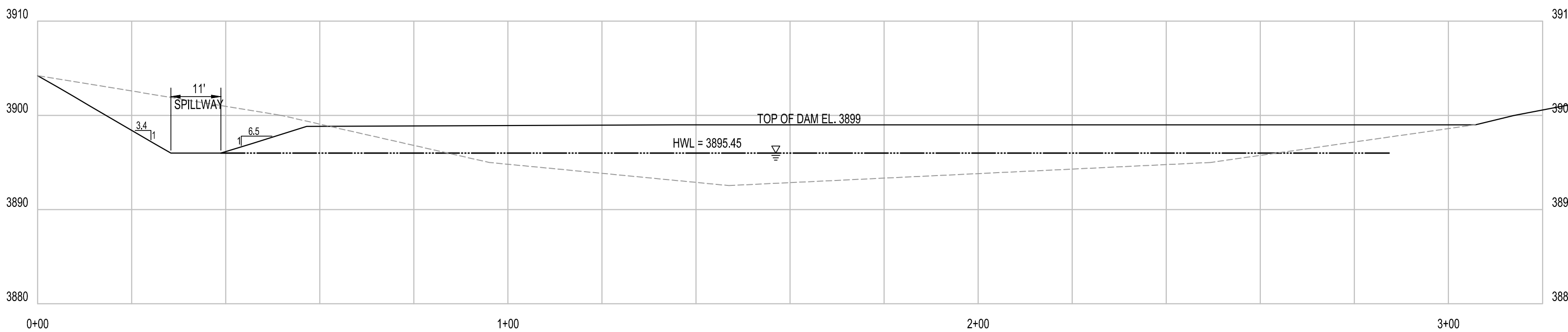
TYPICAL COLLECTOR DITCH
SCALE: 1" = 10'



SECTION A-A'
SCALE: H: 1"=20', V: 1"=10'



SECTION C-C'
SCALE: H: 1"=20', V: 1"=10'



SECTION B-B'
SCALE: H: 1"=20', V: 1"=10'

EMERGENCY SPILLWAY TRANSPORT
SECTION HYDRAULICS

$$Q = \frac{1.49}{n} AR^{2/3} S^{1/2}$$

$Q_{100-24} = 45.38$	cfs	$A = 12.91$	ft ²
$n = 0.030$		$WP = 17.58$	ft
$S = 0.0076$	ft/ft	$R = 0.73$	ft
$Z = 3$	H:1V	$V = 3.51$	fps
$b = 12$	ft	$Y_n = 0.88$	ft

CERTIFICATE OF ENGINEER

I, Owen Lindblom of Gillette, Wyoming, hereby certify that this map and drawing was prepared by myself or under my direct supervision using topographic maps prepared for Spring Creek Coal LLC dated 03/2020 and that they correctly represent the facilities and conditions described in the accompanying application.



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

NOTARY PUBLIC
SUBSCRIBED AND SWORN BEFORE ME THIS
____ DAY OF _____, ____
NOTARY PUBLIC
RESIDING IN _____
MY COMMISSION EXPIRES _____

Legend
Permit Boundary
Drainage Boundary
Collector Ditch
Overhead Powerline

SEDIMENT YIELD CALCULATIONS

DISTURBED AREA (ac)	SEDIMENT VOL/AC (ac-ft)	REQUIRED STORAGE (ac-ft)
13.30	0.02	0.27

HYDROLOGIC DESIGN CALCULATIONS

HYDROLOGIC DESIGN PARAMETERS					100-YR, 24-HR STORM			
SOURCE AREA (sq mi)	WATERCOURSE LENGTH (mi)	ELEVATION DIFFERENCE (ft)	INFILTRATION RATE (in/hr)	CURVE NUMBER (CN)	100-YR, 24-HR PRECIPITATION (in)	PEAK INFLOW (cfs)	RUNOFF VOLUME (ac-ft)	
0.037	0.284	121	0.55	77.80	3.35	45.38	1.15	

SPRING CREEK MINE

P.O. BOX 67
DECKER, MT 59025
(406) 757-2581



DATE	REVISION
4/10/20	As-Built Conditions
ODL	

Sediment Control
Spring Creek Mine Pond # 101

As-Built

DRAWN BY: RWC SHEET 1 OF 1 DATE: 12/04/17
SCALE: as shown FILE NUMBER: App'd: Pond 101_20200410_MR254.dwg