Mike Bramlett

Sent: Thursday, March 9, 2023 11:50 AM

To: Mike Bramlett

Subject: Re: SRMD Ponds 1 and 2 (NPH), Acceptance of Plans for Filing | 100600, C-2128;

100601 - C-2129 |

Mike,

Thanks for checking in. There are no additional approvals required for Dam Safety prior to construction. Please keep me informed of construction schedule. I will attend your pre-construction meeting with your contractor if schedule permits.

Brian McCormick, PE Dam Safety Engineer



719.248.3876 4255 Sinton Road, Colorado Springs, CO 80907 brian.c.mccormick@state.co.us https://dwr.colorado.gov/services/dam-safety

On Thu, Mar 9, 2023 at 10:50 AM Mike Bramlett mbramlett@jrengineering.com wrote:

Brian,

I saw on the Dam safety website that the two Sterling Ranch ponds are in the database with a "design approved" listing. Is there any other approvals we need from your office prior to starting construction?

Thanks

Mike Bramlett, PE Client Manager JR Engineering, LLC

5475 Tech Center Drive, Suite 235, Colorado Springs, CO 80919

Phone: (719) 593-2593 Cell: (719) 659-7679

mbramlett@jrengineering.com

From: McCormick - DNR, Brian < brian.c.mccormick@state.co.us > Sent: Tuesday, December 13, 2022 1:46 PM To: Mike Bramlett < mbramlett@jrengineering.com > Cc: Daniel Vaught < DVaught@jrengineering.com >; Tristan Bonser < tbonser@jrengineering.com >;
jmorley3870@aol.com; Kyle Campbell (kcampbell@classicconsulting.net) < kcampbell@classicconsulting.net >; Loren Moreland < lmoreland@classichomes.com >; Jacob Olson - DNR < jacob.olson@state.co.us > Subject: Re: SRMD Ponds 1 and 2 (NPH), Acceptance of Plans for Filing 100600, C-2128; 100601 - C-2129
Mike,
Thank you - that's everything I need at this time. I appreciate your work in getting all the pieces aligned on this project.
this project.
Brian McCormick, PE
Dam Safety Engineer
719.248.3876
4255 Sinton Road, Colorado Springs, CO 80907
brian.c.mccormick@state.co.us
https://dwr.colorado.gov/services/dam-safety
On Tue, Dec 13, 2022 at 1:31 PM Mike Bramlett < mbramlett@jrengineering.com > wrote:
Brian,
Loren forwarded the invoices to me to pay as part of my reimbursable line item in the design contract. Here are the receipts showing payment.

Thanks

Mike Bramlett, PE Client Manager JR Engineering, LLC

5475 Tech Center Drive, Suite 235, Colorado Springs, CO 80919

Phone: (719) 593-2593 Cell: (719) 659-7679

mbramlett@jrengineering.com

From: McCormick - DNR, Brian < brian.c.mccormick@state.co.us>

Sent: Tuesday, December 13, 2022 10:58 AM

To: Mike Bramlett < mbramlett@jrengineering.com >

Cc: Daniel Vaught <DVaught@jrengineering.com>; Tristan Bonser <tbonser@jrengineering.com>;

jmorley3870@aol.com; Kyle Campbell (kcampbell@classicconsulting.net) < kcampbell@classicconsulting.net>; Loren

Moreland < ! Jacob Olson - DNR < jacob.olson@state.co.us>

Subject: SRMD Ponds 1 and 2 (NPH), Acceptance of Plans for Filing | 100600, C-2128; 100601 - C-2129 |

Mike,

Thanks for revising these applications and providing the clarification on ownership. I have filed these and requested invoices. This email serves as acceptance of these applications and plan sets for filing, contingent on payment of invoices.

As Engineer of Record, you are responsible for Construction Observation and Records per Rule 8.2.1, and 8.2.2 of the Rules and Regulations for Dam Safety and Dam Construction, available at:

https://dnrweblink.state.co.us/dwr/ElectronicFile.aspx?docid=3552784&dbid=0

Following construction completion please provide the following:

Record Drawings - refer to rule 8.3.1.3

CompletionReport - refer to rule 8.3.1.4

Please right size your efforts given that these are minor size, No Public Hazard Structures. Anything you provide however may turn out to be very valuable for our successors in the future. Pictures, material test results, and a summary narrative are always valuable.

Please do not hesitate to contact me if I can be of further assistance as these dams are constructed.
Brian McCormick, PE
Dam Safety Engineer
Dain Safety Engineer
719.248.3876
4255 Sinton Road, Colorado Springs, CO 80907
brian.c.mccormick@state.co.us
https://dwr.colorado.gov/services/dam-safety
On Mon, Dec 12, 2022 at 8:09 AM Mike Bramlett < mbramlett@jrengineering.com > wrote:
Brian,
I have attached the updated applications with signatures by Sterling Ranch Metro District along with the design documents. The design documents had minor updates based upon our meeting in September. I have also attached a letter requesting the dam ownership be assigned to Sterling Ranch Metro District #3 and the letter is signed by the Metro District and the two land owners; SR Land, LLC and Classic SRJ Land, LLC.
Please review and let me know if you have any questions or concerns.
Thanks
Mike Bramlett, PE Client Manager JR Engineering, LLC 5475 Tech Center Drive, Suite 235, Colorado Springs, CO 80919 Phone: (719) 593-2593 Cell: (719) 659-7679

mbramlett@jrengineering.com

From: McCormick - DNR, Brian < brian.c.mccormick@state.co.us >

Sent: Tuesday, November 29, 2022 10:28 AM

To: Mike Bramlett < mbramlett@jrengineering.com>

Cc: John.Hunyadi@state.co.us; Daniel Vaught < DVaught@jrengineering.com>; Tristan Bonser

<tbonser@jrengineering.com>; jmorley3870@aol.com; Kyle Campbell (kcampbell@classicconsulting.net)

<kcampbell@classicconsulting.net>; Loren Moreland < lmoreland@classichomes.com>

Subject: Re: Sterling Ranch - Sand Creek Channel Improvements - Application for plan review of jurisdictional dams -

no public hazard

Mike,

I apologize for how long it has taken to get this follow up correspondence to you. Thanks for meeting with me in October to discuss the project. We have assigned the following DAMIDs and Construction file numbers (C numbers) for these jurisdictional size dams. Please use these on future correspondence and documents (plans, specs, reports).

Sterling Ranch Municipal District Pond 1, DAMID 100600, C-2128

Sterling Ranch Municipal District Pond 2, DAMID 100601, C-2129

These both appear to have been originally constructed as Livestock Water Tanks: (Pond 1, T.M. Dines #1, receipt 9078; Pond 2, T.M. Dines #2, receipt 9052).

It is understood that SR Land is the Owner of these dams and that ownership and maintenance is intended to be transferred to a special district in the future. Per Rule 13.2, please advise this office when the change in ownership occurs and provide complete contact information for the special district and representative.

Here are the next steps needed to process these:

Please revise the applications per the attached markups. These need to be signed and submitted to me with design documents. The plans (dated 9/27/22) previously submitted will suffice unless there have been changes to these.

When work is completed I will need as-constructed plans including:

As-constructed topography

Storage - Elevation Curve per Rule 6.6.1.6
Elevation - Outflow Curves (outlet capacity and spillway capacity) per Rule 6.6.1.5
A location or key map to allow me to verify dam location.
I'll invoice these at \$100 each (filing only). The invoice will come by email to the email address on the
application form.
Let me know if you have any questions about the path forward. Thanks,
Let the know it you have any questions about the path forward. Thanks,
Brian McCormick, PE
Dam Safety Engineer
719.248.3876
4255 Sinton Road, Colorado Springs, CO 80907
brian.c.mccormick@state.co.us
https://dwr.colorado.gov/services/dam-safety
On Wed, Sep 28, 2022 at 1:42 PM Mike Bramlett < mbramlett@jrengineering.com > wrote:
Brian,
I have attached the applications review applications and design exhibits for two stock pond embankments
that became jurisdictional once we incorporated them into the overall Sand Creek Channel Improvements project in El Paso County. I would be happy to set up a meeting with you and our design team to go over the background of the project and walk you through the design.
5

The Sand Creek Channel improvement project is part of the overall Sterling Ranch Master Plan Residential Development, east of Vollmer Rd. and approximately 1 mile north of Woodmen Road and I have attached a marketing map that may help give you an overview. The objective of the channel improvements will be to utilize a blended (naturalized channel design and periodic engineered drop/check structures) to stabilize the Sand Creek channel. The stock ponds are existing and currently adjacent to the creek thalwag but since we are widening the creek bottom substantially, these two ponds have been incorporated into the channel design. Incorporating them makes for a large downslope on the back of the existing dam berms, making them jurisdictional. We have placed a vertical stormwater control outlet structure in each pond at the stored water level with an outlet stilling basin near the toe of slope. Since the ponds were part of the augmentation plan approved last year for Sterling Ranch, they will also have an "agridrain" control structure for adherence to the augmentation plan. The "agridrain" control structure will tie into our stormwater control outlet structure so only one discharge is at the bottom of each downslope berm. The stormwater control structure structural design/detailing is being done by SAM Engineering and should complete in October. If you wish to also review those drawings, let me know.

We had met with John Hunyadi in December of last year to go over this project and get his feedback before he moved to his new position on the path forward. At that meeting it was discussed that while these ponds would become jurisdictional dam embankments, there is no public hazard in the event of dam failure as the pond stored water volumes (~ 7 ac-ft and 5 ac-ft) just flow down the stabilized channel.

We now gotten far enough in the design reviews with El Paso county to be comfortable the design elements will not change and are detailed sufficiently to request a formal review from your agency.

Looking forward to working through this with you. If you are interested in a review meeting, just let me know some times that work for you in the upcoming weeks.

Thanks

Mike Bramlett, PE Client Manager JR Engineering, LLC

5475 Tech Center Drive, Suite 235, Colorado Springs, CO 80919

Phone: (719) 593-2593 Cell: (719) 659-7679

 $\underline{mbramlett@jrengineering.com}$

DIVISION OF WATER RESOURCES OFFICE OF THE STATE ENGINEER DAM SAFETY BRANCH

1313 Sherman Street, Room 818 Denver, Colorado 80203

NAME OF DAM, WATER DIV, DAMID, COMPLETE? YES NO, DATE RETURNED APPLICATION FOR REVIEW OF PLANS AND SPECIFICATIONS FOR THE CONSTRENANCEMENT OF A DAM AND RESERVOIR Applications must be computer generated online, typewritten, or printed in black or blue inknowing or electronic signature required.	
APP. COMPLETE? YES NO , DATE RETURNED APPLICATION FOR REVIEW OF PLANS AND SPECIFICATIONS FOR THE CONSTRENANCEMENT OF A DAM AND RESERVOIR Applications must be computer generated online, typewritten, or printed in black or blue ink	
ENLARGEMENT OF A DAM AND RESERVOIR Applications must be computer generated online, typewritten, or printed in black or blue ink	
CHECK ONE: New Dam X Enlargement	
(SEE C.R.S. 37-87-101, et al., and Rules & Regulations for Dam Safety and Dam Constr	ruction)
STERLING RANCH METROPOLITAN DISTRICT NO. 3 , owner, hereby accept	and approve the
(Name of Owner) enclosed plans and specifications for submittal to the State Engineer in accordance with § 37-87-105, C.R.	.S.
74.1	16/2022
(Signature of Owner/Agent)	(Date)
Address: 2138 Flying Horse Club Drive Colorado Springs CO	80921
Street or P.O. Box City State	Zip Code
Phone Number: (719) 499-3125 Email (mandatory): Imorland@classichomes.co	om
	Private
NAME OF DAM (ON FILE WITH THE STATE ENG):	Tivato
Also known as:	
RESERVOIR NAME: Sterling Ranch Metropolitan District Pond 1	
STATE ENGINEER'S FILE NO. C-nnnnx: C-2128 (if known) DAMID: 100600 (if known)	
Location: County El Paso Section 33 Township 12 X Range 65 X Principle	la Maridian G
Latitude 38.9591 Longitude: -104.6733	e Wendian <u>v</u>
OR Utilizing GPS (UTM format, Datum must set to NAD83):	
Zone 12 or Zone 13 Northing:m, Easting	m
Stream Name: Sand Creek , Tributary to: Fountain Creek	
Description of Work: Stream restoration project along Sand Creek within the Sterling Ranch development. E stock pond will be modified with an outlet structure that will outfall into proposed region tion pond W-3. Emergency spillway will be reinforced with a sheetpile into bedrock and moring down the slope.	nal deten-

(add additional sheet as page 5 if necessary)

GENERAL INFORMATION

Purpose(s) of Dam and Reservoir IRRIGATION STOCK POND
(Augmentation Diversion Demostic Freeier Control Freeze Freeier Control Freeze Fr

(Augmentation, Diversion, Domestic, Erosion Control, Ever Pollution Control, Recreation, Stockwater, Settling Ponds,		nydroelectric, industriai, irrigatio	n, Mining, Municipa
Engineer: Mike Bramlett			
Company or Organization: JR Engineering			
Address: 5475 Tech Center Drive, Suite 235	Colorado Springs	CO	80919
Street or P.O. Box	City	State	Zip Code
Phone Number: (719) 593-2593	Colorado P.E. Registra	ation Number: 32314	
Estimated costs of construction (including eng	ineering):	Filing Fee: \$100, filing of	only
<u>Type of Dam</u> – (e.g., Earthfill, Homogeneous):			
Concrete Gravity	Arch		
Earthfill X Zoned	Homogeneous		
Rockfill Zoned	Impervious Membrane		
Masonry			
Other	<u></u>	- <u></u>	
Hazard Classification: High	Significant Low	X No Public Hazard (N	PH)
DAM ANI	D RESERVOIR STRUCTURAL	DATA	
Jurisdictional Height ft. (Natural sur	face of ground up to crest of emerg	ency spillway at longitudir	al centerline)
Embankment Height <u>32'</u> ft. (Jurisdiction	nal height plus emergency spillway	freeboard)	
Structural Height 32' ft. (Bottom of cuto	off trench to crest of dam at longitud	dinal centerline)	
Crest Length 300 ft. Crest Width 15	ft. Crest Elevation 7040.0) ft., M.S.L.	
Maximum Impoundment Capacity 41.55	Acre-Feet (to cr	est of dam)	
Normal Reservoir Capacity19.73	Acre-Feet (at high wat	er line)	
Reservoir Surface Area 6.691	Acres		
Embankment Slopes: Upstream 4	V 1 Downstream	H V 1	
Embankment Facing Material:			
Concrete Riprap X	Natural Grave	el 🔛	
Rockfill Masonry	Clay Plante	d 🗌	
Gabions Soil Cement	Steel Woo	od	
Other (Describe)			
O	UTLET STRUCTURAL DATA		
Description: Size 25'x25'	Type Grated overflow orifice	Capacity 2106 CF	S
Other Discharges flows between	HWL and spillway in order to main	ntain water right	
Maximum Discharge Capacity: o cf	s (at high water line) (PAGE 2 OF 4)		

SPILLWAY STRUCTURAL DATA

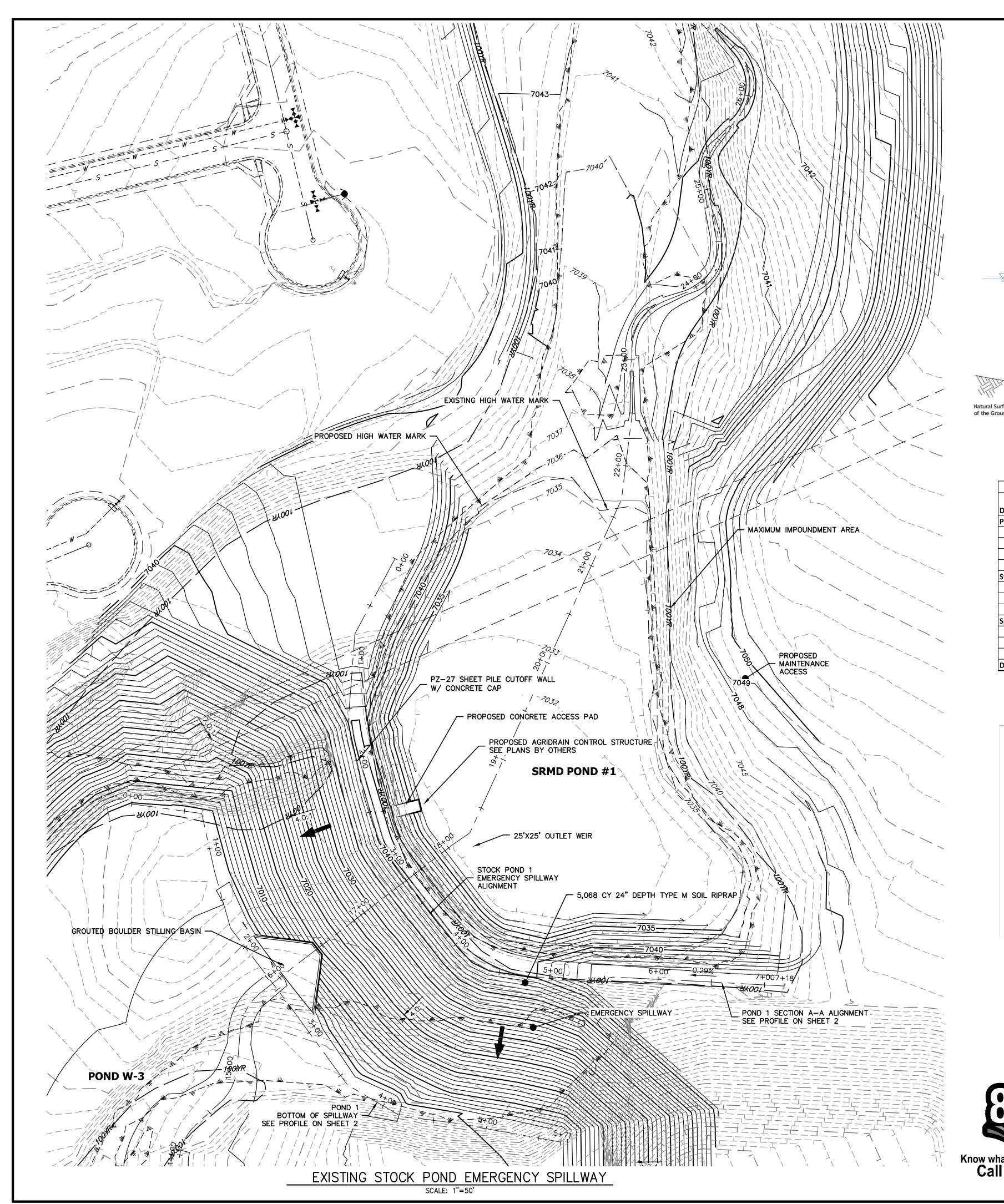
1.	Type: Emergency Overflow	Spillwa	y					(i.e. Em	ergency, Princi	pal)
	Material: Soil Riprap						(i.e. Natu	ıral, Rip	orap, Concrete,	etc.)
	Width: 300	ft.	Freeboard: 2			ft.	Capacity:	4		_ ft
2.	Type:						(i.e. Em	nergency, Princi	pal)
	Material:						(i.e. Natu	ıral, Rip	orap, Concrete,	etc.)
	Width:	ft.	Freeboard:			ft.	Capacity:			_ ft
Total	Spillway Capacity: 8149	cfs (to crest of the dam)						
		HYD	ROLOGIC DATA	(Inflo	w Desig	n Floo	od)			
Drair	age Basin Area: 2313.1		Acres, or			Sq.	. Miles			
Inflov	v Design Flood 100-YR		(i.e. 100-yr. %P	MP, et	c.) Durat	tion 2	4		Hrs.	
Туре	:			(i.e.	Thunders	torm, C	General Storr	n, Snov	wmelt, Combina	ation)
Data	Source Reference(s): NOAA	Atlas 1	4							
Peak	Discharge from Drainage Ba	sin <u>185</u>	3	_cfs	Runoff Vo	olume:	236		Acre-Feet	<u>.</u>
Basir	n Lag time (Lg):13.13		Hrs.							
Meth	od of determination: (Describe	e variab	le and indicate valu	ues, i.e	., USBR la	ag, L, L	.c, Kn, S, etc	.):		
CUHI	P-SWMM, time of maximum in	nflow int	o SRMD Pond 1							
Inflov	v Design Flood routes through	ı reserv	oir with 4.71	_ ft. re	sidual free	board				

(PAGE 3 OF 4)

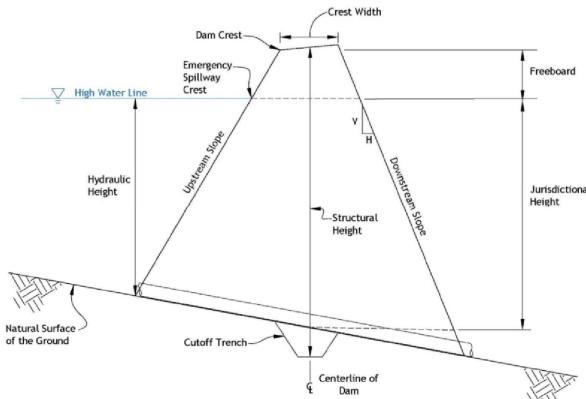
COLORADO DAM SAFETY BRANCH 2-CCR-402-1 RULE 6.5 ENGINEER'S QUALIFICATION STATEMENT AND AFFIDAVIT

Dam Name Sterling Ranch Metro District Pond 1
DAMID_100600
Construction File No. C-2128
Project Name Sand Creek Restoration
NO. 12 THE
I, Mike Bramlett , am a registered Professional Engineer in the State of Colorado (Registration No. 32314). I am qualified in the field of dam design and construction to propage and develop, or to lead a team to propage and develop, the designs plans and
of Colorado (Registration No. 32314). I am qualified in the field of dam design and
construction to prepare and develop, or to lead a team to prepare and develop, the designs, plans, and
specifications for the project, and to provide supervision throughout the subject project. Attached
please find my resume, which demonstrates my qualifications in accordance with Rule 4.10 of the
Colorado Rules and Regulations for Dam Safety and Dam Construction, 2-CCR-402-1, 2020.
This affidavit is to serve as written certification of my qualification to act as engineer in "Responsible
Charge" of the project.
charge of the project.
I, Mike Bramlett, hereby declare that all information contained in this affidavit,
including in the attached resume, is true to the best of my knowledge.
Date: 12/9/2022
Mike Bramlett
(Signature)
Mike Bramlett
(Print Name Here)
<u> </u>
ATTERNA
SOUND LICE TO
BALL SEA
A CONTRACTOR OF THE PROPERTY O
S S WE Z &
₩ : 32314 : ₩

Affix wet PE stamp here

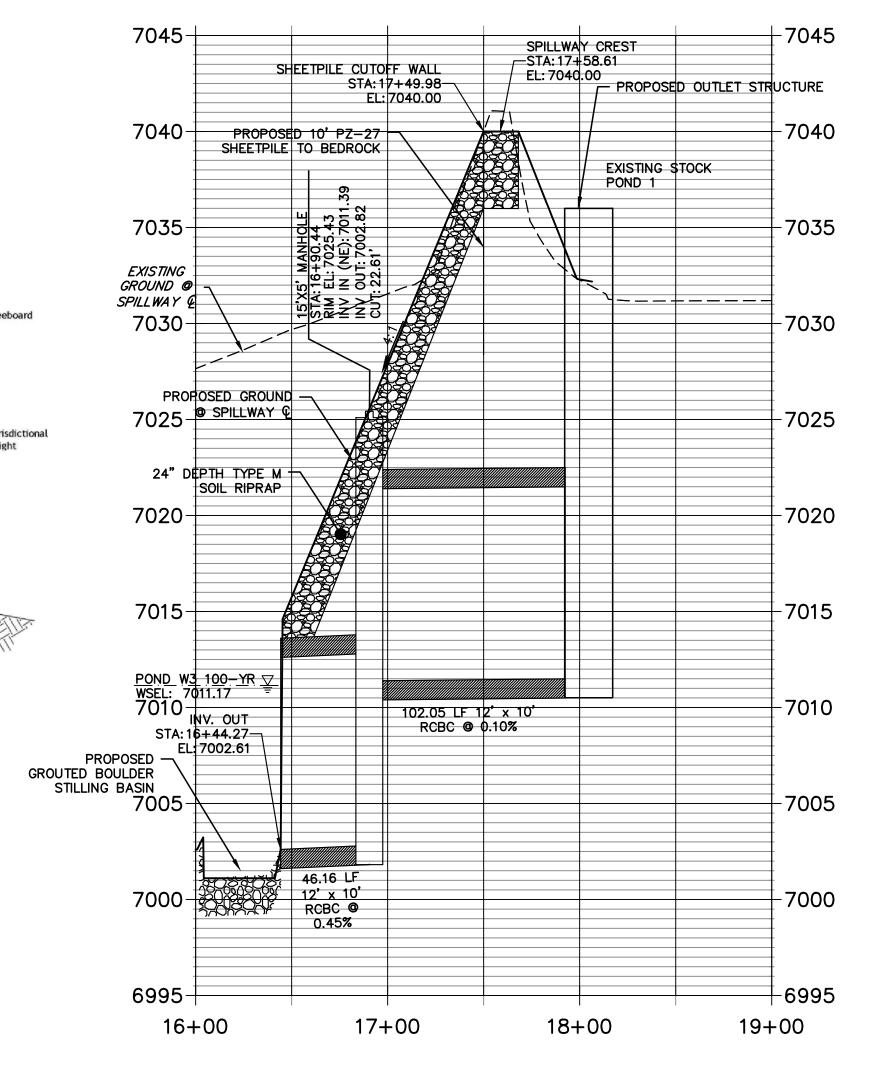


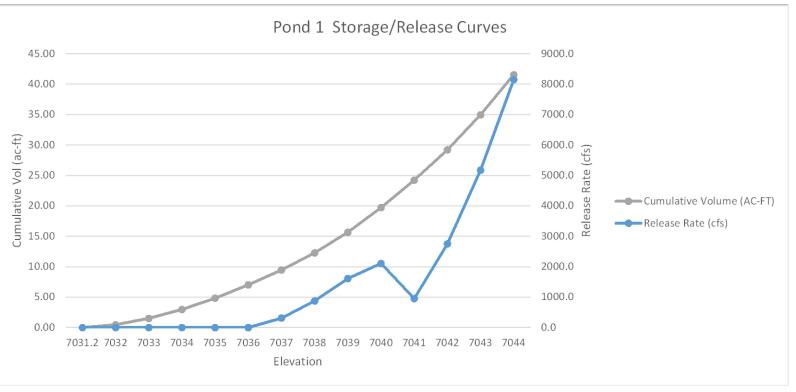
STOCK POND 1 DRAINAGE AREA (AC) 2313.1 AVERAGE % IMP. 5-YR 100-YR 511.84 1977.60 499.73 1819.90 Q_{OUT} (CFS) 7036.00 STATIC WSEL (FT) 7040.00 MAX WSEL (FT) 6.17 VOLUME (AC-FT) 10.43 SURFACE AREA (AC) 2.7



SRMD Pond 1 Storage Curve								
			Surface Area	Cumulative				
Description	Depth	Elev. (ft)	(AC)	Volume (AC-FT)				
Pond Bottom	0	7031.2	0.311	0.00				
	0.8	7032	0.848	0.4				
	1.8	7033	1.250	1.5				
	2.8	7034	1.672	2.9				
	3.8	7035	2.049	4.83				
Static WSEL	4.8	7036	2.320	7.02				
	5.8	7037	2.567	9.40				
	6.8	7038	3.059	12.2				
	7.8	7039	3.722	15.66				
Spillway Crest	8.8	7040	4.401	19.73				
	9.8	7041	4.600	24.23				
	10.8	7042	5.367	29.2				
	11.8	7043	6.164	34.9				
Dam Crest	12.8	7044	6.991	41.5!				

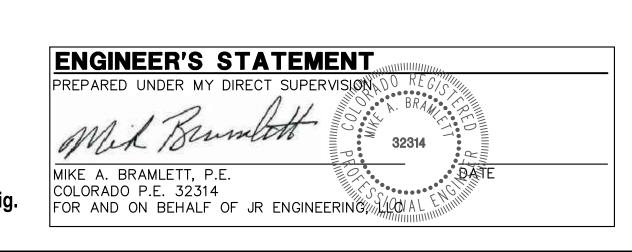
STOCK POND 1 EMERGENCY SPILLWAY PROFILE STA 16+00.00 TO 19+00.00

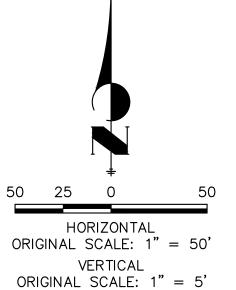




SRMD Pond 1 Ratings Curve						
			Release			
Description	Depth	Elev. (ft)	Rate (cfs)			
Pond Bottom	0	7031.2	0.0			
	1	7032	0.0			
	2	7033	0.0			
	3	7034	0.0			
	4	7035	0.0			
Outlet Weir	4.8	7036	0.0			
	5.8	7037	310.0			
	6.8	7038	876.8			
	7.8	7039	1610.8			
Emergency Spillway	8.8	7040	2106.6			
	9.8	7041	950.0			
	10.8	7042	2751.0			
	11.8	7043	5174.0			
Dam Crest	12.8	7044	8149.0			



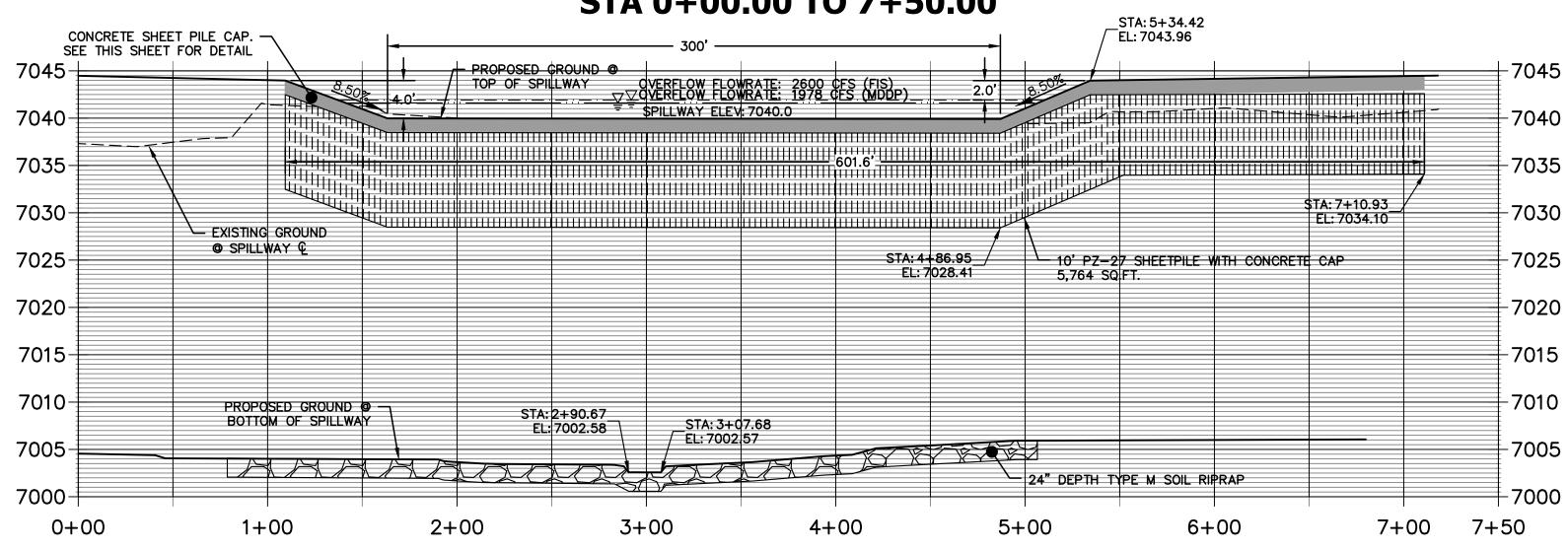




SRMD POND #1 DAM EXHIBIT SAND CREEK RESTORATION JOB NO. 25188.04 10/12/22 SHEET 1 OF 2



POND 1 SECTION A-A PROFILE STA 0+00.00 TO 7+50.00



STOCK POND 1 SECTION A—A PROFILE

HORZ SCALE: 1"=50',
VERT SCALE: 1"=10'

Know what's below.
Call before you dig.

PREPARED UNDER MY DIRECT SUPERVISION OF REGISSION OF REGI

SRMD POND #1 DAM EXHIBIT SAND CREEK RESTORATION JOB NO. 25188.04 10/12/22 SHEET 2 OF 2



DIVISION OF WATER RESOURCES OFFICE OF THE STATE ENGINEER DAM SAFETY BRANCH

1313 Sherman Street, Room 818 Denver, Colorado 80203

		OFFICE USE ONLY		175.1
NAME OF DAM_		, WATER DIV, DAM	ID, C	
DATE RECEIVED	APP. COM	PLETE? YES NO , DATE	RETURNED	
	ENLARGEME Dilcations must be computer ge Original	IS AND SPECIFICATIONS FOR NT OF A DAM AND RESERVO enerated online, typewritten, or printed or electronic signature required.	DIR	ICTION OR
(SEE C.F	CHECK ONE: New Dam L.S. 37-87-101, et al., and R	Enlargement Safety Use & Regulations for Dam Safety	y and Dam Constru	ction)
-	AA I	ne State Engineer in accordance with	n § 37-87-105, C.R.S.	
	(Signature of C	Owner/Agent)		(Date)
Address: 2138 Flyin	g Horse Club Drive		CO	80921
Stre	eet or P.O. Box	City	State	Zip Code
Owner Code:(CHEC	, <u> </u>	Email (mandatory): Imorland State Local Government	Utility X Priv	
·		S):		
	Sterling Ranch Metropolitan			
	S FILE NO. C-nnnnx: C-2129		(if known)	
Location: County_	El Paso Section 28	Township 12	E W	Meridian <u>6</u>
Latitude ₋	30.3091	Longitude: -104.6672		
	GPS (UTM format, Datum mus	•	sting	m
Stream Name: San	d Creek	, Tributary to: Fountain Creel	<u> </u>	
Description of Work:	Stream restoration project alo stock pond will be modified wing Creek.	ng Sand Creek within the Sterling Ra th an outlet structure that will outfall in	nch development. Ex nto downstream reach	isting 1 of Sand —— ——
	(add add	itional sheet as page 5 if necessary)		

(PAGE 1 OF 4)

GENERAL INFORMATION

Purpose(s) of Dam and Reservoir IRRIGATION STOCK POND
(Auamentation, Diversion, Domestic, Erosion Control, Evaporation, Flood Control, Fire Control, Fish, Hydroelectric, Industrial, Irrigation, Mining, Municipal,

Pollution Control, Recreation, Stockwater, Settling Ponds, Tailings, Waste Disposal)	dustriai, irriga	uon, mining, municipai,
Engineer: Mike Bramlett		
Company or Organization: JR Engineering		·····
Address: 5475 Tech Center Drive, Suite 235 Colorado Springs	СО	80919
Street or P.O. Box City	State	Zip Code
Phone Number: (719) 593-2593 Colorado P.E. Registration Number	. 32314	
Estimated costs of construction (including engineering): Filing Fee:	\$100, f	filing only
Type of Dam – (e.g., Earthfill, Homogeneous):		
Concrete Gravity Arch		
Earthfill X Zoned Homogeneous		
Rockfill Zoned Impervious Membrane		
Masonry		
Other		
Hazard Classification: High Significant Low X No Pub	lic Hazard	(NPH)
DAM AND RESERVOIR STRUCTURAL DATA		
Jurisdictional Heightft. (Natural surface of ground up to crest of emergency spillway	at longitud	dinal centerline)
Embankment Heightft. (Jurisdictional height plus emergency spillway freeboard)		
Structural Height ft. (Bottom of cutoff trench to crest of dam at longitudinal centerlin	ie)	
$ \text{Crest Length } \underline{206} \qquad \text{ft.} \text{Crest Width } \underline{15} \qquad \text{ft.} \text{Crest Elevation } \underline{7121.0} \text{ft., M.S.L.} $		
Maximum Impoundment Capacity 9.74 Acre-Feet (to crest of dam)		
Normal Reservoir Capacity 4.42 Acre-Feet (at high water line)		
Reservoir Surface Area 2.10 Acres		
Embankment Slopes: Upstream 4 1 Downstream 4 1		
Embankment Facing Material:		
Concrete Riprap X Natural Gravel Gravel		
Rockfill Masonry Clay Planted		
Gabions Soil Cement Steel Wood		
Other (Describe)		
OUTLET STRUCTURAL DATA		
Description: Size 25'x25' Type Grated overflow orifice Capac	city 2106 (CFS
Other Discharges flows between HWL and spillway in order to maintain water rig	jht	
Maximum Discharge Capacity: cfs (at high water line) (PAGE 2 OF 4)		

SPILLWAY STRUCTURAL DATA

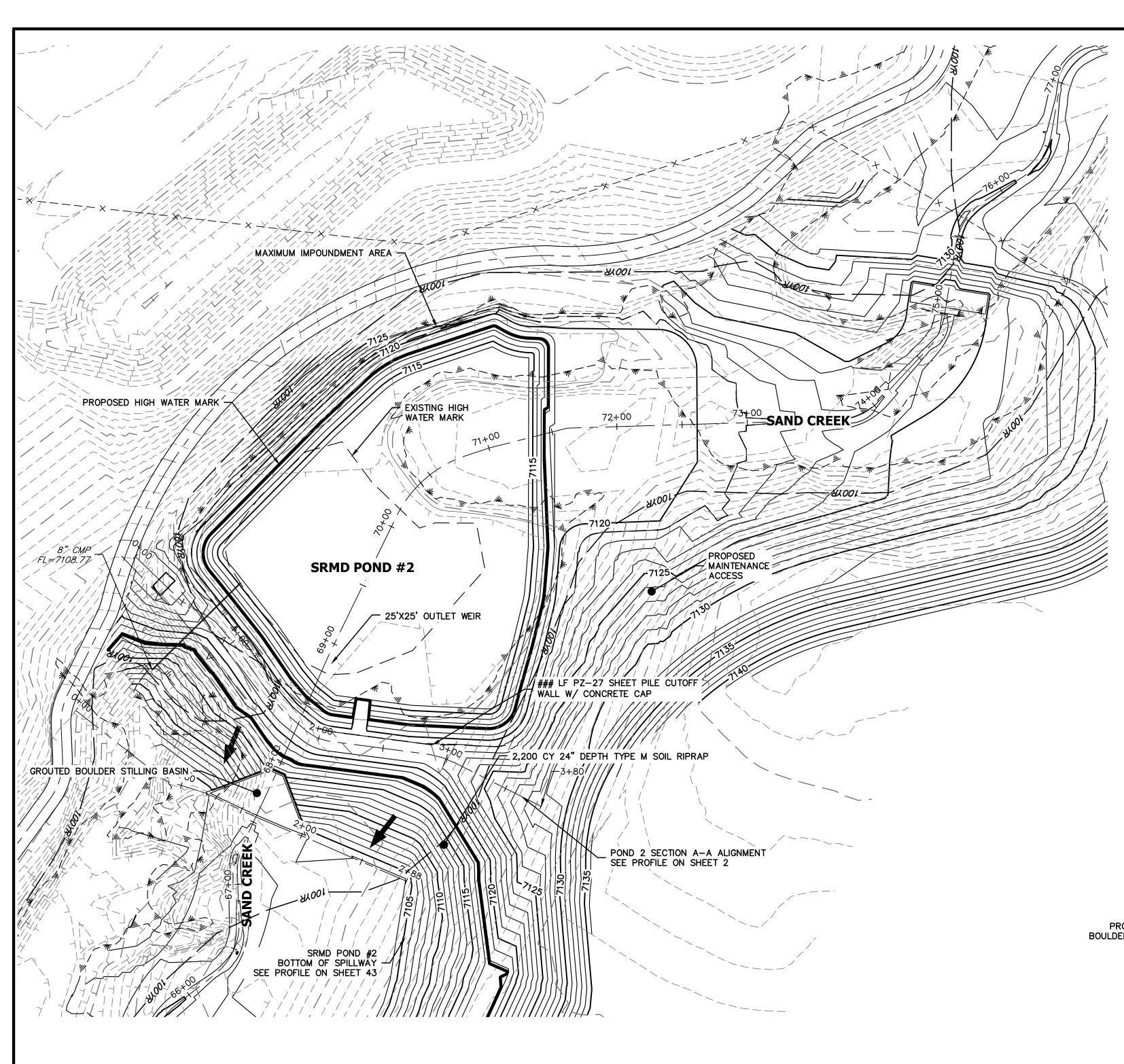
1.	Type: Emergency Overflow S	Spillwa	У			(i.e. Emer	gency, Principal)
	Material: Soil Riprap					(i.e. Natu	ıral, Ripra	p, Concrete, etc.)
	Width: 200	_ ft.	Freeboard: _1.46) 	ft.	Capacity:	4	ft
2.	Туре:					(i.e. Emer	gency, Principal)
	Material:					(i.e. Natu	ıral, Ripra	p, Concrete, etc.)
	Width:	ft.	Freeboard:		ft.	Capacity:		ft
Total	Spillway Capacity: 5720	_ cfs (to crest of the dam)				
		HYD	ROLOGIC DATA	(Inflow D	esign Floo	d)		
Drair	nage Basin Area: 2003.2		Acres, or		Sq.	Miles		
Inflov	v Design Flood 100-YR		(i.e. 100-yr. %P i	MP, etc.)	Duration 24			Hrs.
Туре	:_II			_ (i.e. Thur	nderstorm, G	eneral Storr	n, Snown	nelt, Combination
Data	Source Reference(s): NOAA	Atlas 1	4					
Peak	Discharge from Drainage Bas	in <u>166</u>	66	cfs Run	off Volume:	191		Acre-Feet
Basir	n Lag time (Lg):12.88		Hrs.					
Meth	od of determination: (Describe	variab	le and indicate valu	es, i.e., US	BR lag, L, L	c, Kn, S, etc	.):	
CUF	IP-SWMM, time of maximum in	iflow in	to SRMD Pond 2					
Inflov	v Design Flood routes through	reserv	oir with 4.19	_ ft. residua	al freeboard			

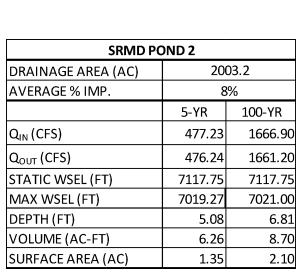
(PAGE 3 OF 4)

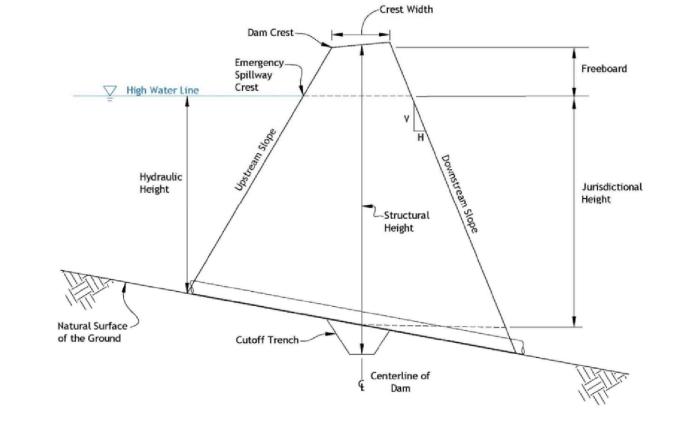
COLORADO DAM SAFETY BRANCH 2-CCR-402-1 RULE 6.5 ENGINEER'S QUALIFICATION STATEMENT AND AFFIDAVIT

Dam Name Sterling Ranch Metro District Pond 2
DAMID_100601
Construction File No. C-2129
Project Name Sand Creek Restoration
I, Mike Bramlett , am a registered Professional Engineer in the State of Colorado (Registration No. 32314). I am qualified in the field of dam design and
of Colorado (Registration No. 32314). I am qualified in the field of dam design and
construction to prepare and develop, or to lead a team to prepare and develop, the designs, plans, and
specifications for the project, and to provide supervision throughout the subject project. Attached
please find my resume, which demonstrates my qualifications in accordance with Rule 4.10 of the
Colorado Rules and Regulations for Dam Safety and Dam Construction, 2-CCR-402-1, 2020.
This affidavit is to serve as written certification of my qualification to act as engineer in "Responsible Charge" of the project.
, Mike Bramlett , hereby declare that all information contained in this affidavit,
I, MIKE Bramlett, hereby declare that all information contained in this affidavit, including in the attached resume, is true to the best of my knowledge.
A DESCRIPTION OF THE PROPERTY
Date: 12/9/2012
Date: 12/9/2022 Mil Buldt (Signature) Mike Bramle H
(Signature)
Mike Bramle H
(Print Name Here)
ORADO LICENSE BRAMINES AND 32314

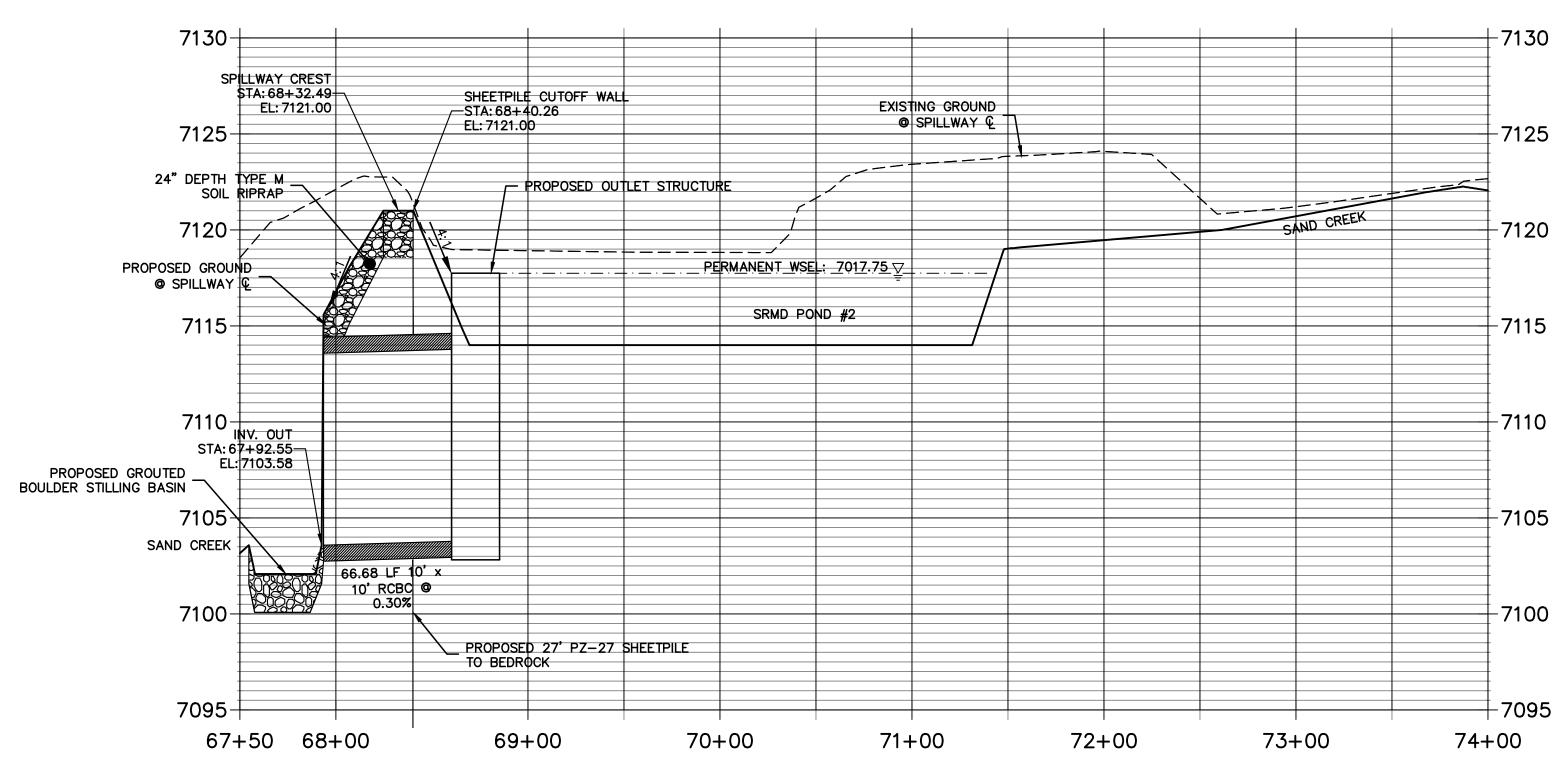
Affix wet PE stamp here

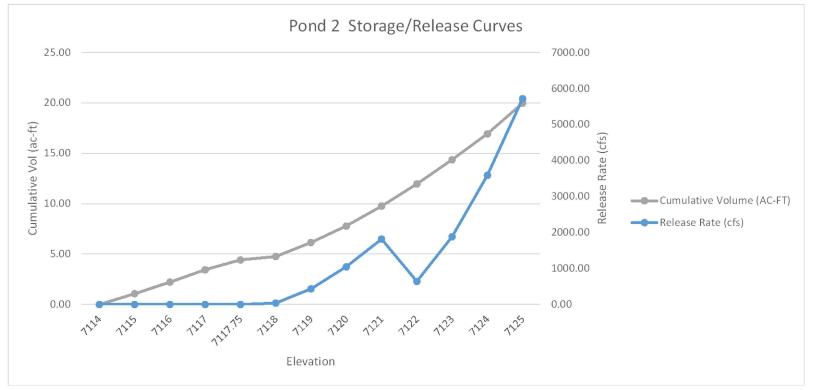






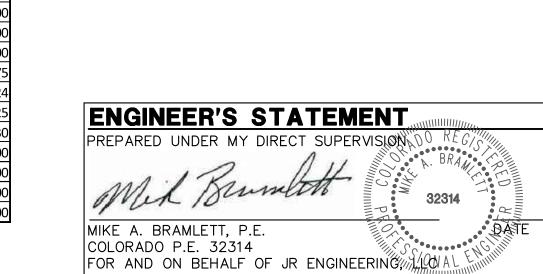
STOCK POND 2 EMERGENCY SPILLWAY PROFILE STA 67+50.00 TO 74+00.00

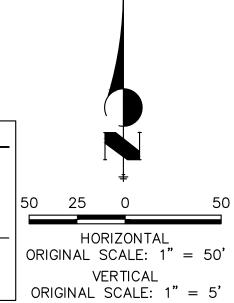




SRMD Pond 2 Storage Curve						
			Surface Area	Cumulative		
Description	Depth	Elev. (ft)	(AC)	Volume (AC-FT)		
Pond Bottom	0	7114	1.03	0.0		
	1	7115	1.11	1.0		
	2	7116	1.19	2.2		
	3	7117	1.27	3.4		
Static WSEL	3.75	7117.75	1.33	4.4		
	4	7118	1.35	4.7		
	5	7119	1.44	6.1		
	6	7120	1.83	7.7		
Spillway Crest	7	7121	2.11	9.7		
	8	7122	2.30	11.9		
	9	7123	2.51	14.3		
	10	7124	2.62	16.9		
Dam Crest	11	7125	3.10	19.9		

SRMD Pond 2 Ratings Curve						
			Release			
Description	Depth	Elev. (ft)	Rate (cfs)			
Pond Bottom	0.00	7114.00	0.00			
	1.00	7115.00	0.00			
	2.00	7116.00	0.00			
	3.00	7117.00	0.00			
Outlet Weir	3.75	7117.75	0.00			
	4.00	7118.00	38.75			
	5.00	7119.00	433.24			
	6.00	7120.00	1046.25			
Emergency Spillway	7.00	7121.00	1816.30			
	8.00	7122.00	642.00			
	9.00	7123.00	1885.00			
	10.00	7124.00	3589.00			
Dam Crest	11.00	7125.00	5720.00			





Know what's below.

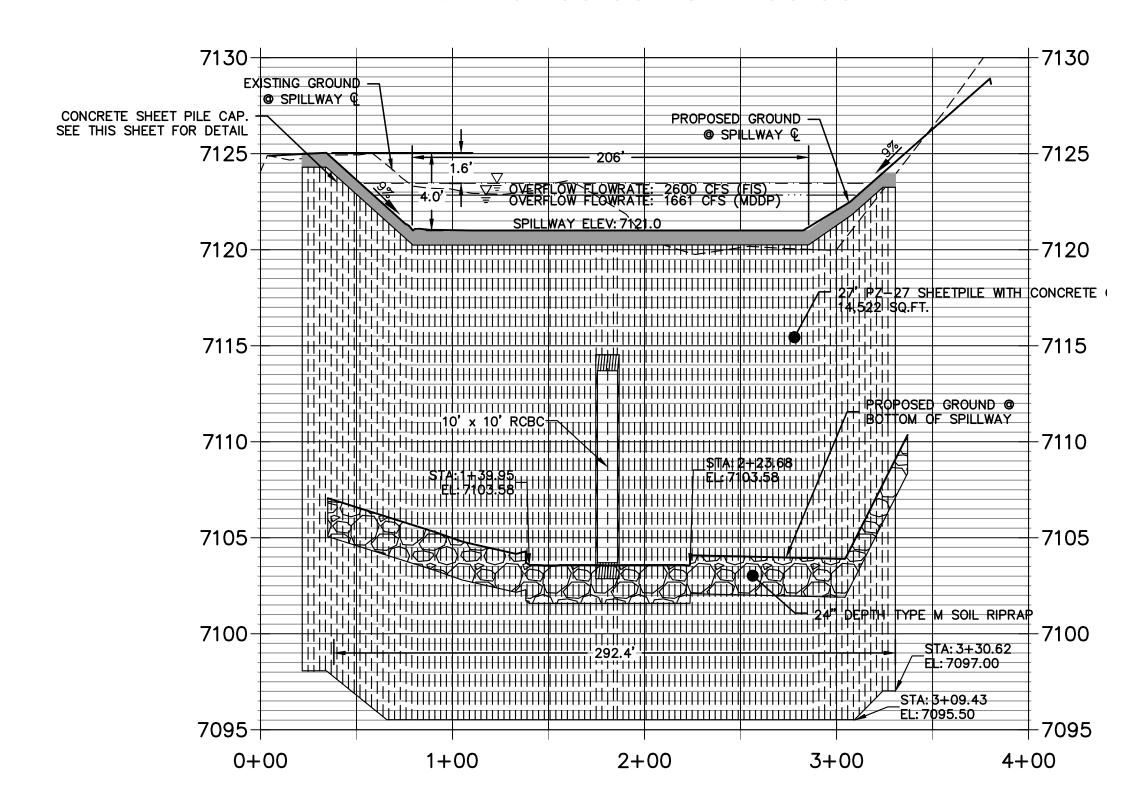
Call before you dig.

ND #2 DAM EXHIBIT

SRMD POND #2 DAM EXHIBIT SAND CREEK RESTORATION JOB NO. 25188.04 10/12/22 SHEET 1 OF 2



POND 2 SECTION A-A PROFILE STA 0+00.00 TO 4+00.00



STOCK POND 2 SPILLWAY PROFILE

HORZ SCALE: 1"=50'
VERT SCALE: 1"=5'

Know what's below.
Call before you dig.

PREPARED UNDER MY DIRECT SUPERVISION OF REGISSION BRAND BRAN

SRMD POND #2 DAM EXHIBIT SAND CREEK RESTORATION JOB NO. 25188.04 10/12/22 SHEET 2 OF 2

