

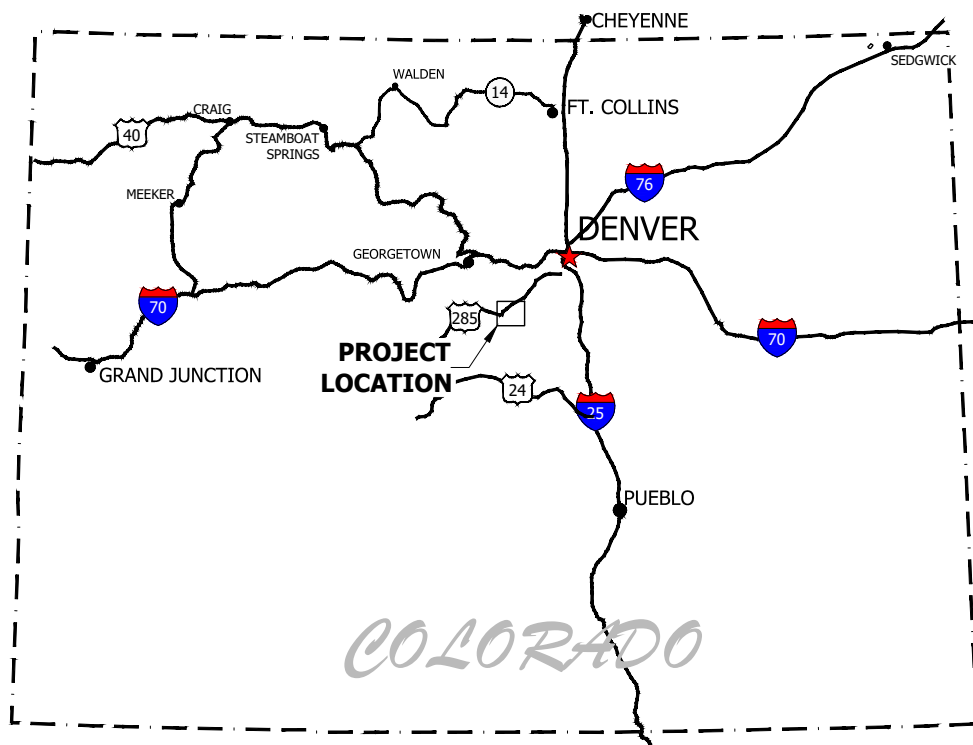
REHABILITATION DESIGN BURLAND POND NO. 3

WATER DIVISION 1, WATER DISTRICT 80
SECTION 23, T7S, R72W, 6TH P.M.
PARK COUNTY, COLORADO

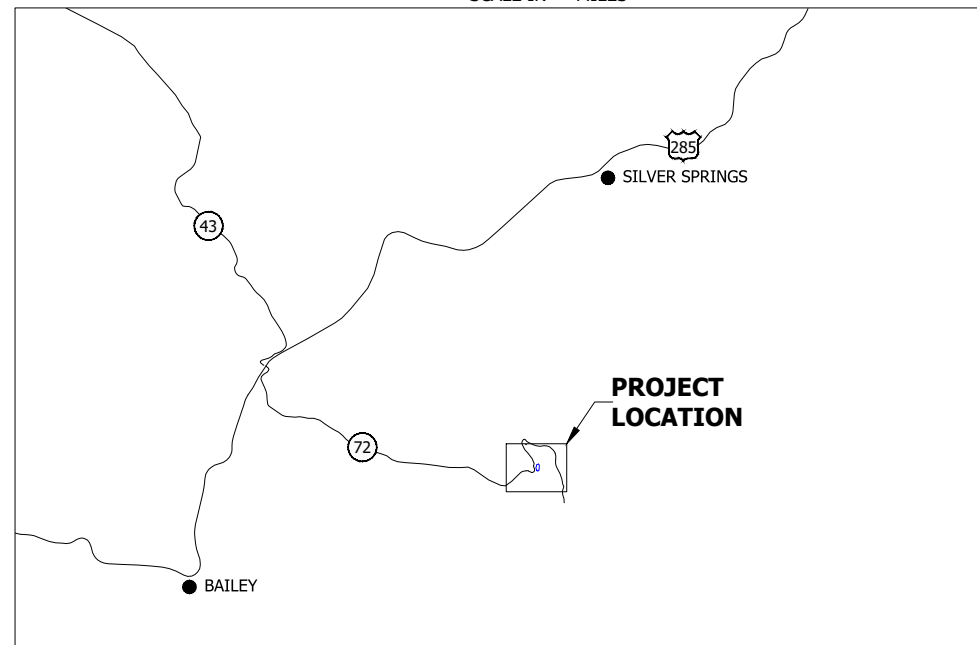
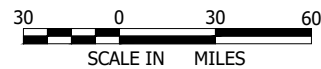
CONSTRUCTION FILE: NONE
DAMID: 800145

PREPARED FOR:
FIRE ADAPTED BAILEY

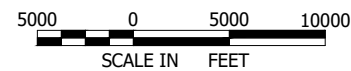
PREPARED BY:
W. W. WHEELER AND ASSOCIATES, INC.



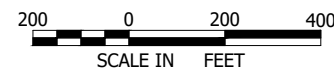
STATE MAP



PROJECT VICINITY MAP

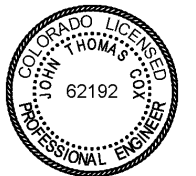


PROJECT LOCATION MAP



I HEREBY DECLARE THESE PLANS FOR THE CONSTRUCTION OF THE BURLAND POND NO. 3 REHABILITATION DESIGN WERE PREPARED UNDER MY DIRECT SUPERVISION.

JOHN THOMAS COX, P.E.
COLORADO P.E. NO. 62192



THESE PLANS REPRESENT THE AS-CONSTRUCTED CONDITIONS OF THE BURLAND POND NO. 3 REHABILITATION DESIGN TO THE BEST OF OUR KNOWLEDGE AND JUDGMENT, BASED IN PART ON INFORMATION FURNISHED BY OTHERS AS OF THE ____ DAY OF _____, 20__.

JOHN THOMAS COX, P.E.
COLORADO P.E. NO. 62192

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NO.	DATE	MADE	CHECKED	REMARKS
1	10/25	JTC	TSS	ISSUED FOR CONSTRUCTION

REFERENCE	SHEET NO.	DRAWING NO.	TITLE

APPROVED FOR CONSTRUCTION

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BURLAND POND NO. 3
REHABILITATION DESIGN
COVER SHEET
VICINITY & PROJECT LOCATION MAPS

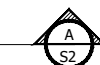



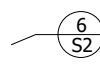





















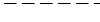

CLIENT		
FIRE ADAPTED BAILEY		
DESIGN	JTC	WHEELER NO. 1923.01.00
DRAWN	SAA	SHEET NO. 1 of 16
CHECK	TSS	DRAWING NO. G-1
PLOT DATE		10/27/2025

ABBREVIATIONS

A.B. = ANCHOR BOLT	FLG = FLANGE	Ⓟ = PLATE
ACB = ARTICULATED CONCRETE BLOCKS	FR = FAR ROW	PLCS = PLACES
ADDL = ADDITIONAL	FS = FAR SIDE REINFORCING BAR	PROJ = PROJECTION
APPROX. = APPROXIMATELY	GA = GAUGE	PVC = POLY VINYL CHLORIDE
B.O.H. = BOTTOM OF HOLE	GALV. = GALVANIZED	R = RADIUS
BF = BOTTOM FACE	GR. = GRADE	RCD = RIGHT CHIMNEY DRAIN
BL = BOTTOM LAYER	GRP = GLASSFIBER REINFORCED PLASTICS	REQD = REQUIRED
BM = BENCHMARK	H = HORIZONTAL	REINF. = REINFORCEMENT
BR = BOTTOM ROW	HDPE = HIGH DENSITY POLYETHYLENE	ROD = RIGHT OUTLET DRAIN
BTWN = BETWEEN	H.R. = HAND RAIL	RTD = RIGHT TOE DRAIN
CFS = CUBIC FEET PER SECOND	HK. = HOOK	S = SLOPE
CI = CAST IRON	HSS = HOLLOW STRUCTURAL SECTION	SCH. = SCHEDULE
CJ = CONSTRUCTION JOINT	I.D. = INSIDE DIAMETER	SDR = STANDARD DIMENSION RATIO
CLR. = CLEAR	IF = INSIDE FACE	SECT. = SECTION
CMP = CORRUGATED METAL PIPE	INV. = INVERT	SEO = COLORADO DIVISION OF WATER RESOURCES, OFFICE OF THE STATE ENGINEER
CMU = CONCRETE MASONRY UNIT	IR = INSIDE ROW	SIM. = SIMILAR
CONC. = CONCRETE	L _d = DEVELOPMENT LENGTH	SPC. = SPACE OR SPACES
CP = CONTROL POINT	LCD = LEFT CHIMNEY DRAIN	SPY. = SPILLWAY
CRJ = CONTROL JOINT	LLV = LONG LEG VERTICAL	SQ. = SQUARE
CTJ = CONTRACTION JOINT	LOD = LEFT OUTLET DRAIN	SS = STAINLESS STEEL
CTR. = CENTER OR CENTERS	LTD = LEFT TOE DRAIN	STA. = STATION
ℓ = CENTERLINE	MAX. = MAXIMUM	STD = STANDARD
D = NORMAL DIAMETER OF	MFR. = MANUFACTURER	STL. = STEEL
DI = DUCTILE IRON	MIN. = MINIMUM	SYM. = SYMMETRICAL
DIPS = DUCTILE IRON PIPE SIZE	MJ = MECHANICAL JOINT	T.&B. = TOP AND BOTTOM
DR = DIMENSION RATIO	ML = MIDDLE LAYER	T.O. = TOP OF
D/S = DOWNSTREAM	MP = MONITORING POINT	T.O.W. = TOP OF WALL
DIA. = DIAMETER	MR = MIDDLE ROW	TF = TOP FACE
DEMO = DEMOLISH	N. = NORTHING OR NORTH	THK = THICK
DET. = DETAIL	NO. = NUMBER	THRD = THREADED
DIAG. = DIAGONAL	NAVD = NORTH AMERICAN VERTICAL DATUM	TL = TOP LAYER
DWG. = DRAWING	NGVD = NATIONAL GEODETIC VERTICAL DATUM	TR = TOP ROW OF REINFORCING BAR
DWL. = DWEL	NHWL = NORMAL HIGH WATER LINE	TYP. = TYPICAL
E. = EASTING	N.T.S. = NOT TO SCALE	U.N.O. = UNLESS NOTED OTHERWISE
EA. = EACH	NF = NEAR FACE	U/S = UPSTREAM
EC = EACH CORNER LENGTHS OF BARS	NR = NEAR ROW EQ.	UV = UNIFORMLY VARYING
EF = EACH FACE	NS = NEAR SIDE	V = VERTICAL
EJ = EXPANSION JOINT	O.C. = ON CENTER	VCP = VITRIFIED CLAY PIPE
EL = ELEVATION (IN FEET)	O.D. = OUTSIDE DIAMETER	W = WIDE FLANGE STRUCTURAL BEAM
ELL = HDPE ELBOW	O.H.P. = OVER HEAD POWER	W/ = WITH
EMBED = EMBEDDED/EMBEDMENT	OF = OUTSIDE FACE	W/O = WITHOUT
EQ. SPC. = EQUALLY SPACED OR EQUAL SPACES	OPP = OPPOSITE	WP = WORK POINT
ER = EACH ROW	OR = OUTSIDE ROW	W.S. = WATER SURFACE
ES = EACH SIDE	PC = POINT OF CURVATURE	W.S.A. = WATER STOP TYPE A
EW = EACH WAY	P.D. = PLAIN DOWELS	WSP = WELDED STEEL PIPE
EXIST = EXISTING	P.I. = POINT OF INTERSECTION	WTP = WATER TREATMENT PLANT
F.G. = FINAL GRADE	P.R.C. = POINT OF REVERSE CURVATURE	
FF = FAR FACE	PT = POINT OF TANGENCY	
FIN. = FINISH	PE = PLAIN END	

DRAWING INDEX		
SHEET NO.	DRAWING NO.	DRAWING TITLE
1	G-1	COVER SHEET - VICINITY & PROJECT LOCATION MAPS
2	G-2	DRAWING INDEX, ABBREVIATIONS AND LEGEND
3	G-3	CAPACITY CURVES
4	G-4	PLAN OF EXISTING CONDITIONS
5	C-1	PLAN OF MODIFICATIONS
6	C-2	DEMOLITION PLAN
7	C-3	EXCAVATION PLAN
8	C-4	DAM CREST - PLAN AND PROFILE
9	C-5	DAM CREST - SECTIONS
10	C-6	OUTLET WORKS - PLAN AND PROFILE
11	C-7	OUTLET WORKS - PLAN, SECTIONS, AND DETAILS
12	C-8	OUTLET WORKS FILTER DIAPHRAGM - DETAILS AND SECTIONS
13	C-9	EMERGENCY SPILLWAY - PLAN AND PROFILE
14	C-10	DRY HYDRANT PIPELINE - PLAN AND PROFILE
15	C-11	DRY HYDRANT - DETAILS
16	C-12	TRASH RACKS - DETAILS AND SECTIONS

LEGEND

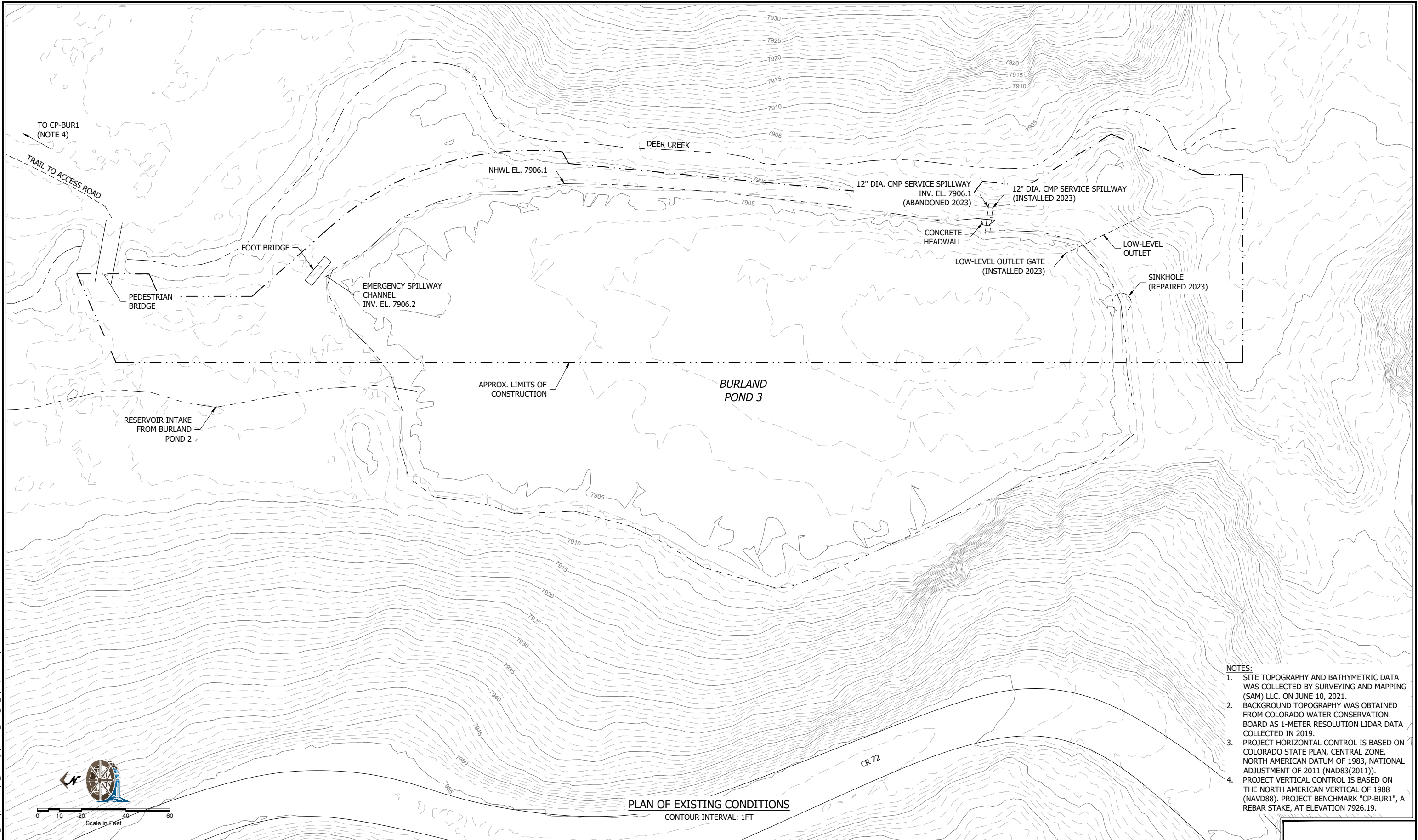
	INDICATES CROSS SECTION LOCATION. "A" REFERS TO CROSS SECTION DESIGNATION. THE NUMBER "S2" REFERS TO THE SHEET NUMBER WHERE THE SECTION IS SHOWN.		NORTH ARROW		AGGREGATE BASE COURSE		STEEL
	INDICATES DETAIL LOCATION. THE NUMBER 6 REFERS TO THE DETAIL DESIGNATION. THE NUMBER S2 REFERS TO THE SHEET NUMBER WHERE THE DETAIL IS SHOWN.		CONTROL POINT		GENERAL FILL		EMBANKMENT FILL
	CENTERLINE		BEDROCK		NEW CONCRETE		DRAIN GRAVEL
	MAJOR 5 FT CONTOUR INTERVAL WITH ELEVATION IN FEET		CUT SLOPE		EXISTING CONCRETE		RIPRAP
	MINOR 1 FT CONTOUR INTERVAL		FILL SLOPE		NATURAL GROUND		BACKFILL CONCRETE
	PROPERTY BOUNDARY		STRUCTURAL SLOPE		FILTER SAND		GROUT
	APPROX. WATER LIMITS						
	WETLANDS LIMITS						
	UTILITY EASEMENT						
	LIMITS OF CONSTRUCTION						

FOR BURIED UTILITY INFORMATION
CALL 811
TWO BUSINESS DAYS
BEFORE YOU DIG
 UTILITY NOTIFICATION CENTER
 OF COLORADO (UNCC) OR
 COMMON GROUND ALLIANCE (CGA)

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NO.	DATE	MADE	CHECKED	REMARKS	SHEET NO.	DRAWING NO.	TITLE	APPROVED FOR CONSTRUCTION	THIS DRAWING TOGETHER WITH ITS PARENT ELECTRONIC MEDIA FILE IS THE PROPERTY OF W. W. WHEELER & ASSOCIATES, UNLESS OTHERWISE EXCEPTED, OR SUPERSEDED BY WRITTEN AGREEMENT WITH THE CLIENT LISTED IN THE TITLE BLOCK. IT IS FURNISHED ON THE EXPRESS CONDITION THAT IT SHALL NOT BE REPRODUCED, COPIED, NOR USED FOR ANY OTHER PURPOSE THAN FOR WHICH IT IS SPECIFICALLY FURNISHED WITHOUT THE PRIOR WRITTEN CONSENT OF SAID W. W. WHEELER & ASSOCIATES.	W. W. WHEELER & ASSOCIATES, INC Water Resources & Geotechnical Engineers 3700 S. INDA STREET ENGLEWOOD, CO 80110-3405 303-761-4130	BURLAND POND NO. 3 REHABILITATION DESIGN DRAWING INDEX, ABBREVIATIONS AND LEGEND	CLIENT FIRE ADAPTED BAILEY
Δ	10/25	JTC	TSS	ISSUED FOR CONSTRUCTION								DESIGN JTC WHEELER NO. 1923.01.00
								ALL SEALS FOR THIS DRAWING SET ARE APPLIED TO THE COVER PAGE.				DRAWN SAA SHEET NO. 2 of 16
												CHECK TSS DRAWING NO. 10/27/2025 Δ G-2

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PLAN OF EXISTING CONDITIONS
CONTOUR INTERVAL: 1FT

- NOTES:**
1. SITE TOPOGRAPHY AND BATHYMETRIC DATA WAS COLLECTED BY SURVEYING AND MAPPING (SAM) LLC. ON JUNE 10, 2021.
 2. BACKGROUND TOPOGRAPHY WAS OBTAINED FROM COLORADO WATER CONSERVATION BOARD AS 1-METER RESOLUTION LIDAR DATA COLLECTED IN 2019.
 3. PROJECT HORIZONTAL CONTROL IS BASED ON COLORADO STATE PLAN, CENTRAL ZONE, NORTH AMERICAN DATUM OF 1983, NATIONAL ADJUSTMENT OF 2011 (NAD83(2011)).
 4. PROJECT VERTICAL CONTROL IS BASED ON THE NORTH AMERICAN VERTICAL OF 1988 (NAVD88). PROJECT BENCHMARK "CP-BUR1", A REBAR STAKE, AT ELEVATION 7926.19.

NO.	DATE	MADE	CHECKED	REMARKS
1	10/25	JTC	TSS	ISSUED FOR CONSTRUCTION

REFERENCE	SHEET NO.	DRAWING NO.	TITLE

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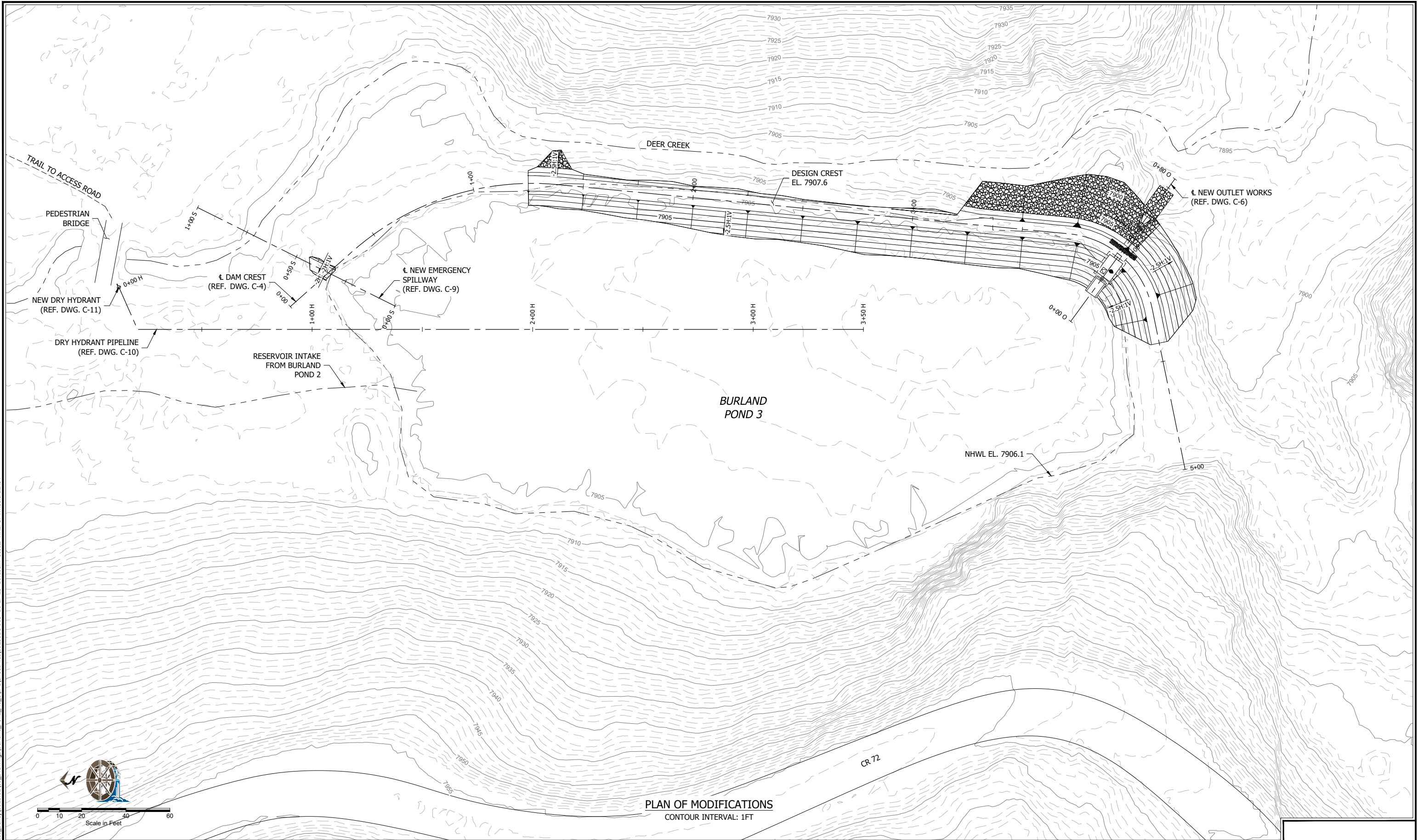
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3700 S. INDA STREET | ENGLEWOOD, CO 80110-3405
303-761-4130

BURLAND POND NO. 3
REHABILITATION DESIGN
PLAN OF EXISTING CONDITIONS

CLIENT		
FIRE ADAPTED BAILEY		
DESIGN	TDH	WHEELER NO. 1923.01.00
DRAWN	SAA	SHEET NO. 4 of 16
CHECK	TSS	DRAWING NO. G-4
DATE	10/27/2025	

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PLAN OF MODIFICATIONS
CONTOUR INTERVAL: 1FT

NO.	DATE	MADE	CHECKED	REMARKS
1	10/25	JTC	TSS	ISSUED FOR CONSTRUCTION

REFERENCE	SHEET NO.	DRAWING NO.	TITLE

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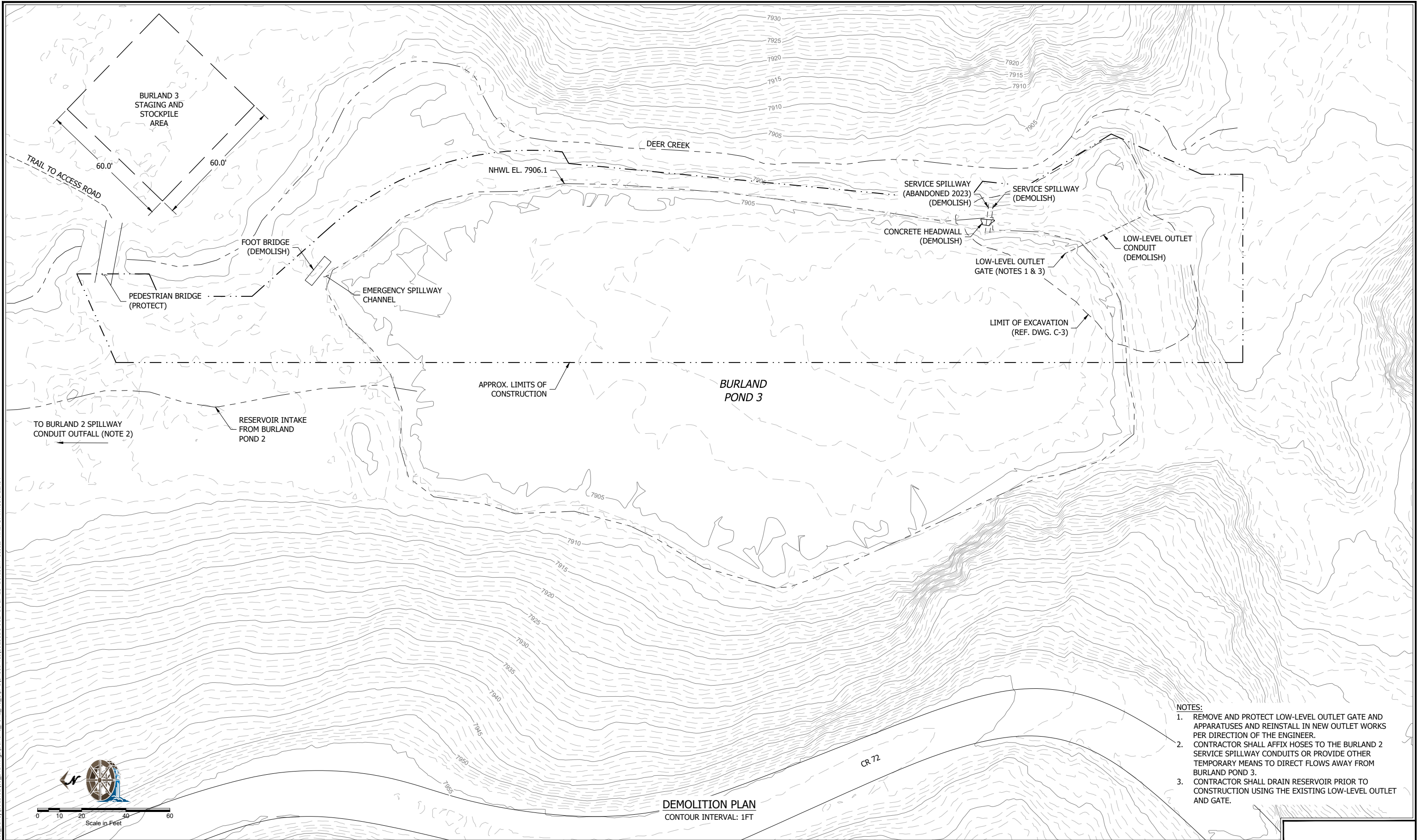
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3700 S. INDA STREET | ENGLEWOOD, CO 80110-3405
303-761-4130

BURLAND POND NO. 3
REHABILITATION DESIGN
PLAN OF MODIFICATIONS

CLIENT		
FIRE ADAPTED BAILEY		
DESIGN	TDH	WHEELER NO. 1923.01.00
DRAWN	SAA	SHEET NO. 5 of 16
CHECK	TSS	DRAWING NO. C-1
PLOT DATE		10/27/2025

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- NOTES:**
1. REMOVE AND PROTECT LOW-LEVEL OUTLET GATE AND APPARATUS AND REINSTALL IN NEW OUTLET WORKS PER DIRECTION OF THE ENGINEER.
 2. CONTRACTOR SHALL AFFIX HOSES TO THE BURLAND 2 SERVICE SPILLWAY CONDUITS OR PROVIDE OTHER TEMPORARY MEANS TO DIRECT FLOWS AWAY FROM BURLAND POND 3.
 3. CONTRACTOR SHALL DRAIN RESERVOIR PRIOR TO CONSTRUCTION USING THE EXISTING LOW-LEVEL OUTLET AND GATE.

DEMOLITION PLAN
CONTOUR INTERVAL: 1FT

NO.	DATE	MADE	CHECKED	REMARKS
1	10/25	JTC	TSS	ISSUED FOR CONSTRUCTION

REFERENCE	SHEET NO.	DRAWING NO.	TITLE

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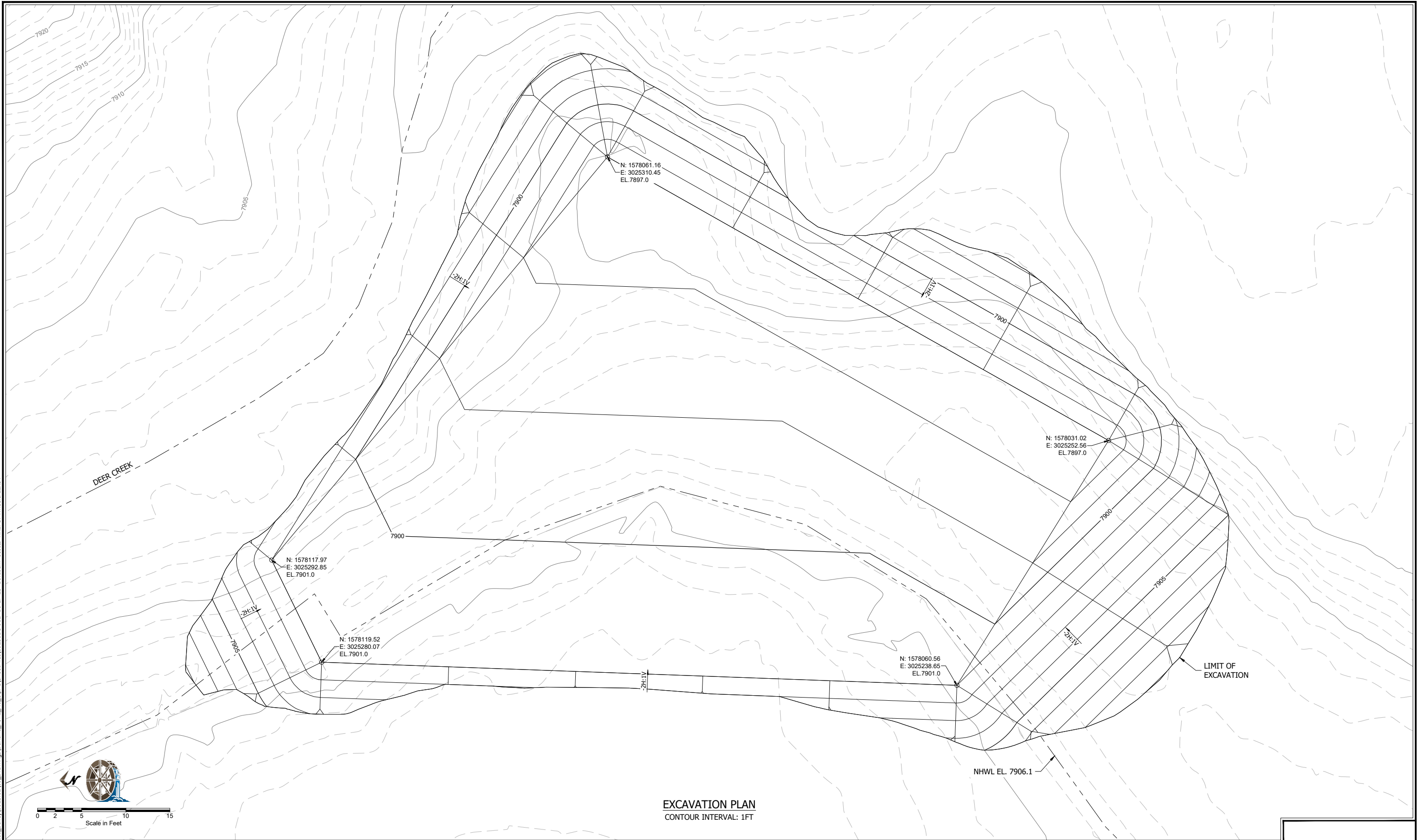
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303-761-4130

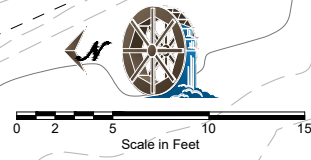
BURLAND POND NO. 3
REHABILITATION DESIGN
DEMOLITION PLAN

CLIENT		
FIRE ADAPTED BAILEY		
DESIGN	JTC	WHEELER NO. 1923.01.00
DRAWN	SAA	SHEET NO. 6 of 16
CHECK	TSS	DRAWING NO. C-2
PLOT DATE	10/27/2025	

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EXCAVATION PLAN
CONTOUR INTERVAL: 1FT



NO.	DATE	MADE	CHECKED	REMARKS
1	10/25	JTC	TSS	ISSUED FOR CONSTRUCTION

REFERENCE	SHEET NO.	DRAWING NO.	TITLE

APPROVED FOR CONSTRUCTION

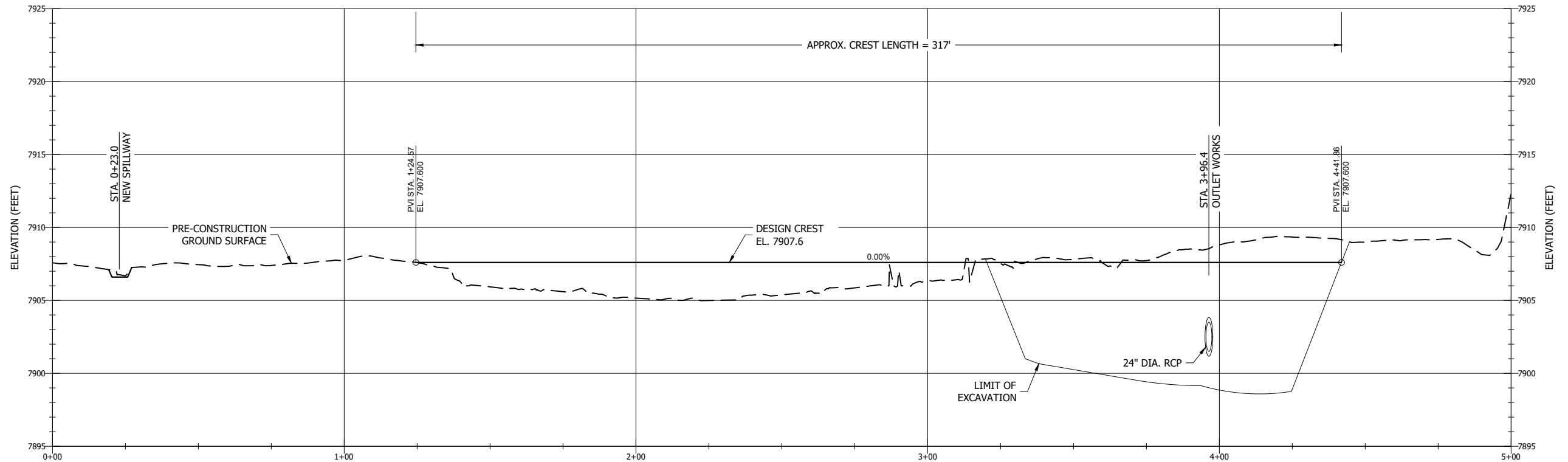
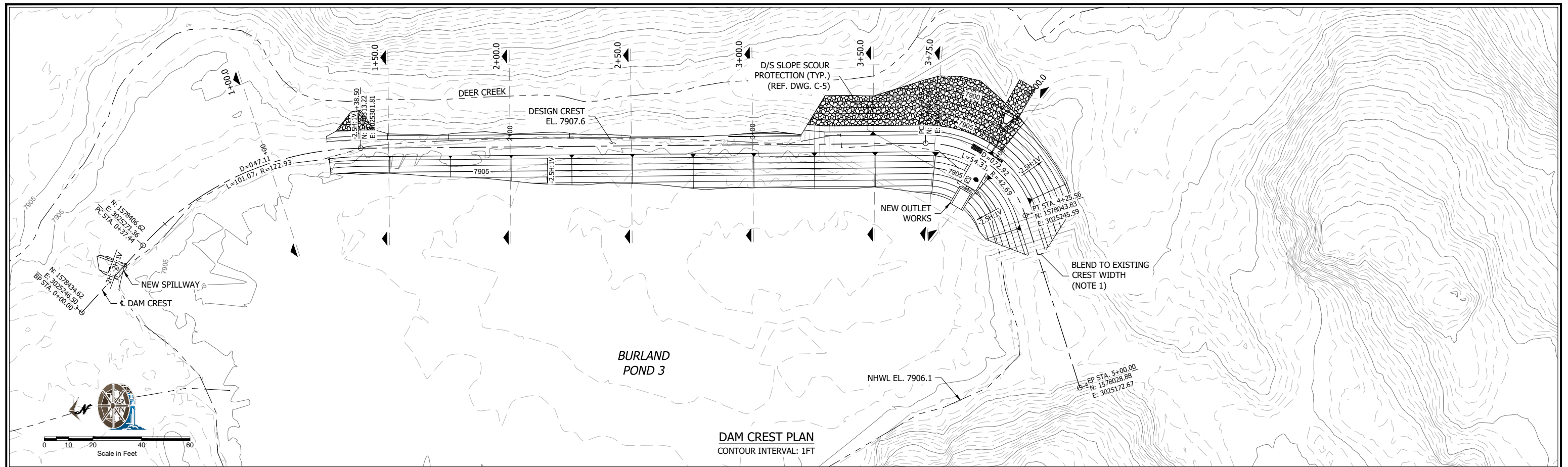
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303-761-4130

BURLAND POND NO. 3
REHABILITATION DESIGN
EXCAVATION PLAN

CLIENT		
FIRE ADAPTED BAILEY		
DESIGN	JTC	WHEELER NO. 1923.01.00
DRAWN	SAA	SHEET NO. 7 of 16
CHECK	TSS	DRAWING NO. C-3
PLOT DATE		10/27/2025



NOTES:
1. WIDEN CREST BEYOND STATION 3+50 AS REQUIRED TO TAPER EMBANKMENT INTO EXISTING ABUTMENT WIDTH.

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NO.	DATE	MADE	CHECKED	REMARKS
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REFERENCE	SHEET NO.	DRAWING NO.	TITLE

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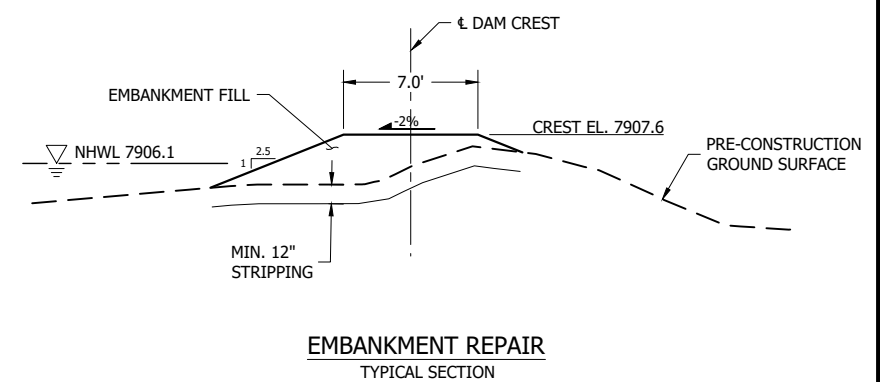
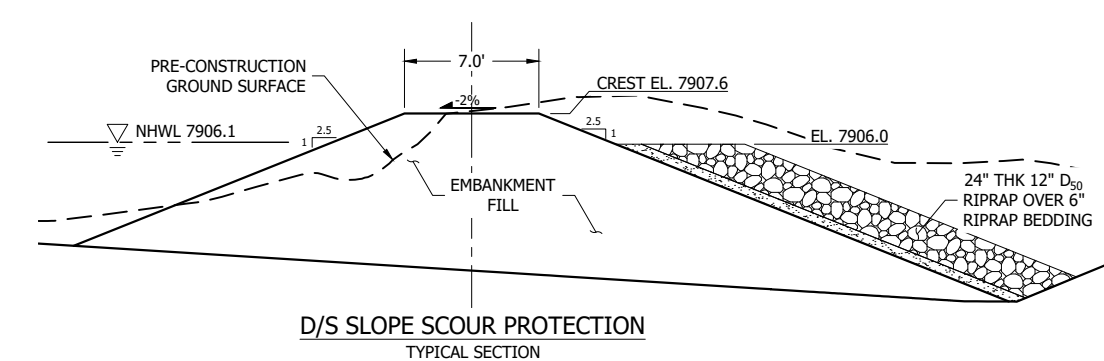
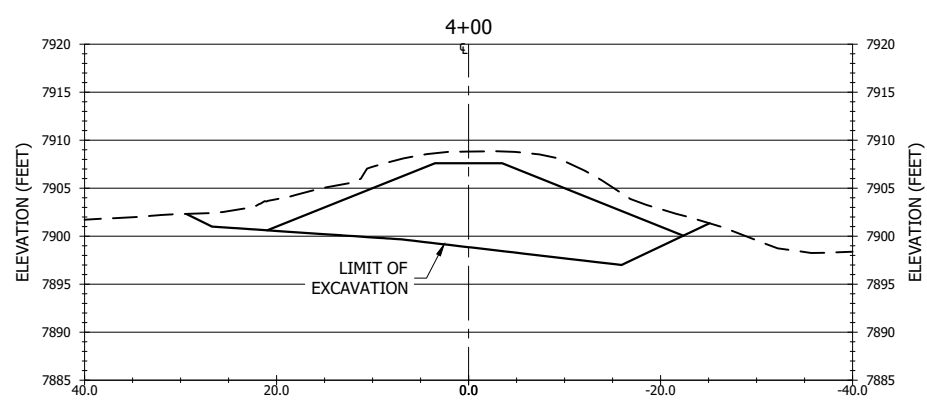
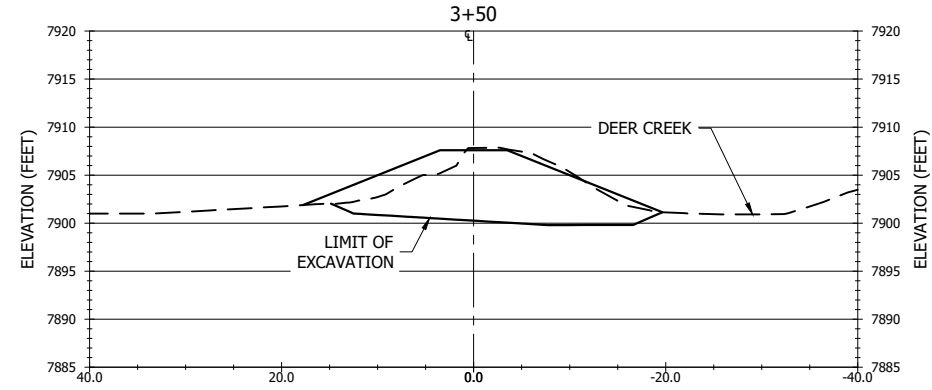
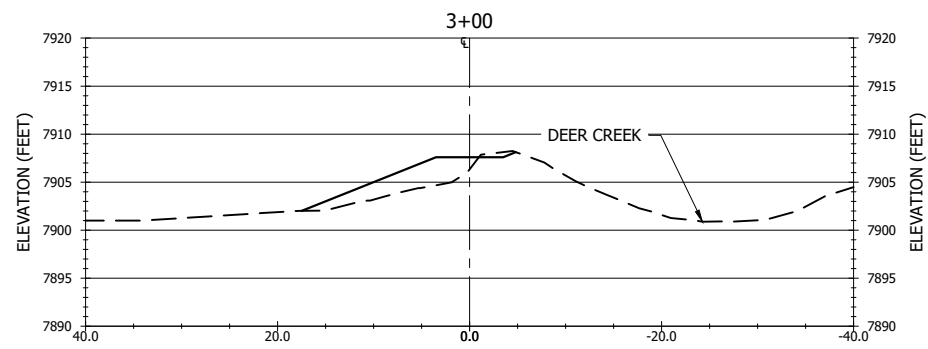
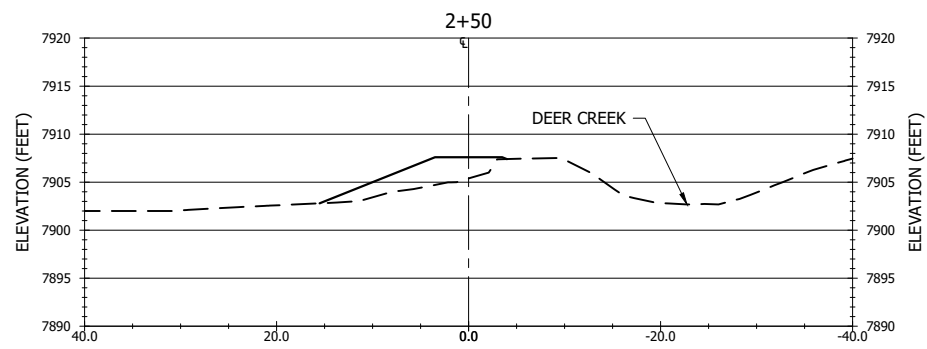
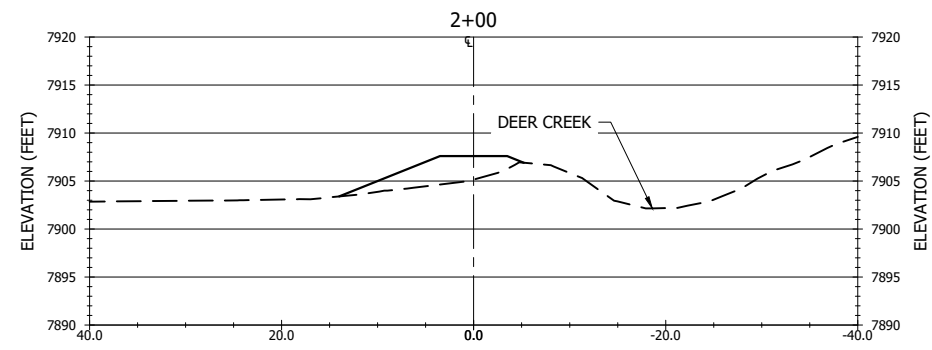
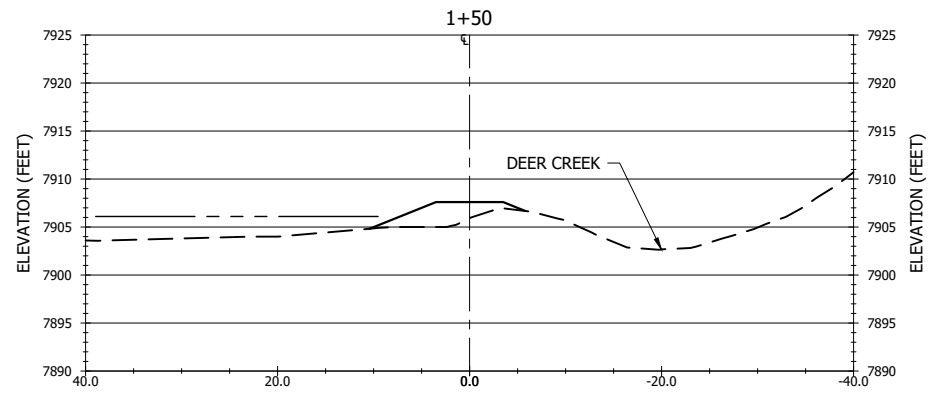
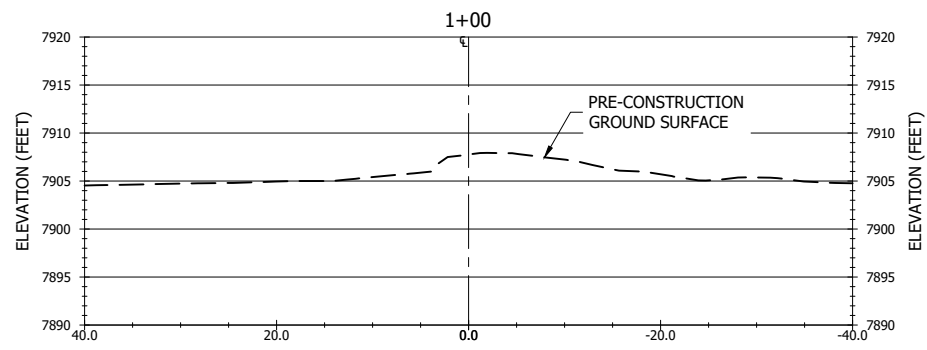
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303-761-4130

BURLAND POND NO. 3
REHABILITATION DESIGN
DAM CREST
PLAN AND PROFILE

CLIENT		
FIRE ADAPTED BAILEY		
DESIGN	JTC	WHEELER NO. 1923.01.00
DRAWN	SAA	SHEET NO. 8 of 16
CHECK	TSS	DRAWING NO. C-4
PLOT DATE		10/27/2025

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NO.	DATE	MADE	CHECKED	REMARKS
1	10/25	JTC	TSS	ISSUED FOR CONSTRUCTION

REFERENCE	SHEET NO.	DRAWING NO.	TITLE

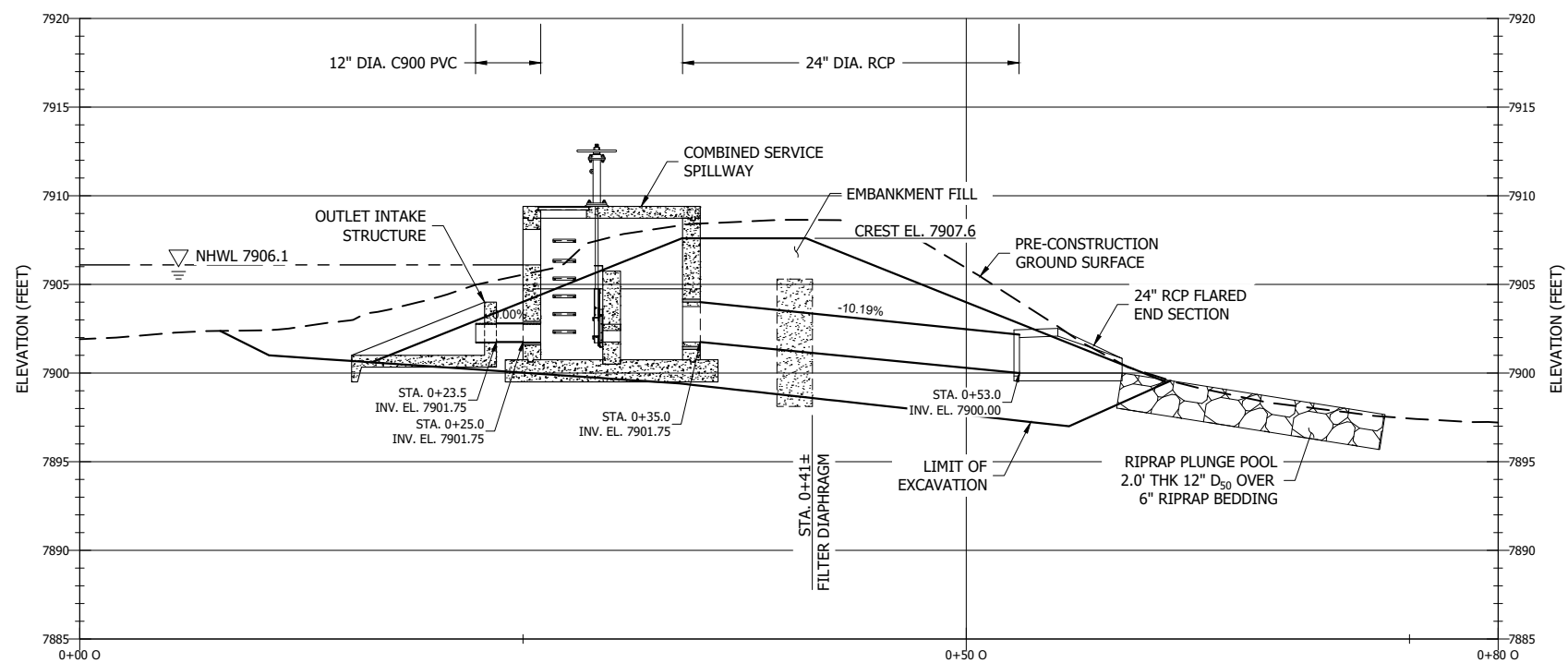
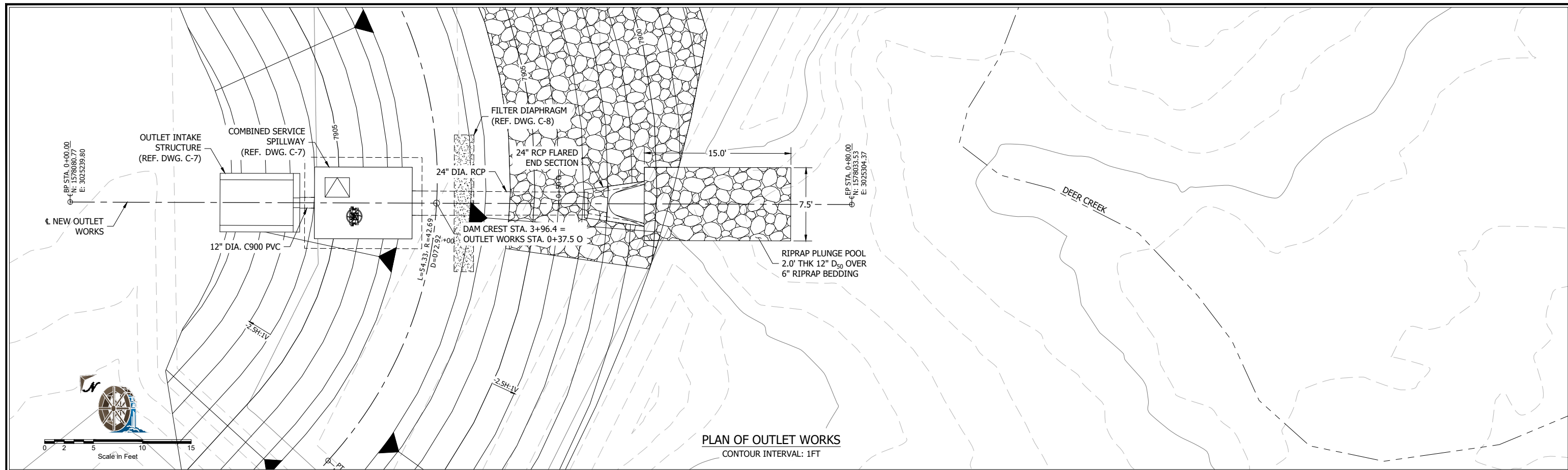
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BURLAND POND NO. 3
REHABILITATION DESIGN
DAM CREST
SECTIONS

CLIENT		
FIRE ADAPTED BAILEY		
DESIGN	JTC	WHEELER NO. 1923.01.00
DRAWN	SAA	SHEET NO. 9 of 16
CHECK	TSS	DRAWING NO. C-5
PLOT DATE		10/27/2025



- NOTES:**
- ENGINEER TO INSPECT SUBGRADE PRIOR TO PLACEMENT OF EMBANKMENT FILL.
 - CONCRETE CRADLE NOT SHOWN FOR CLARITY.

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NO.	DATE	MADE	CHECKED	REMARKS
1	10/25	JTC	TSS	ISSUED FOR CONSTRUCTION

REFERENCE	SHEET NO.	DRAWING NO.	TITLE

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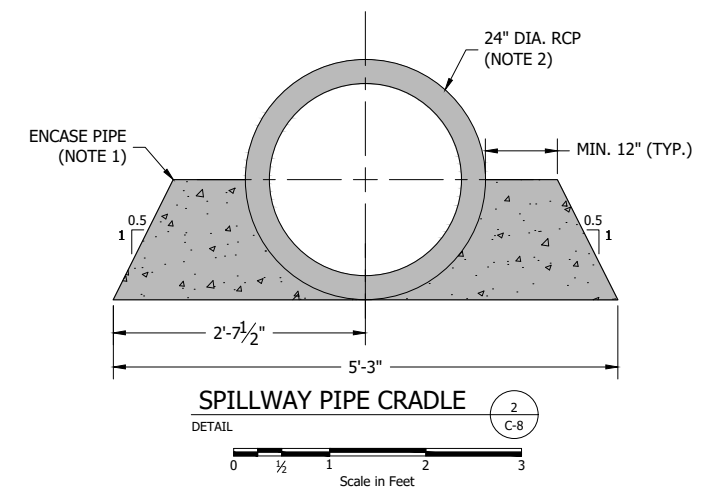
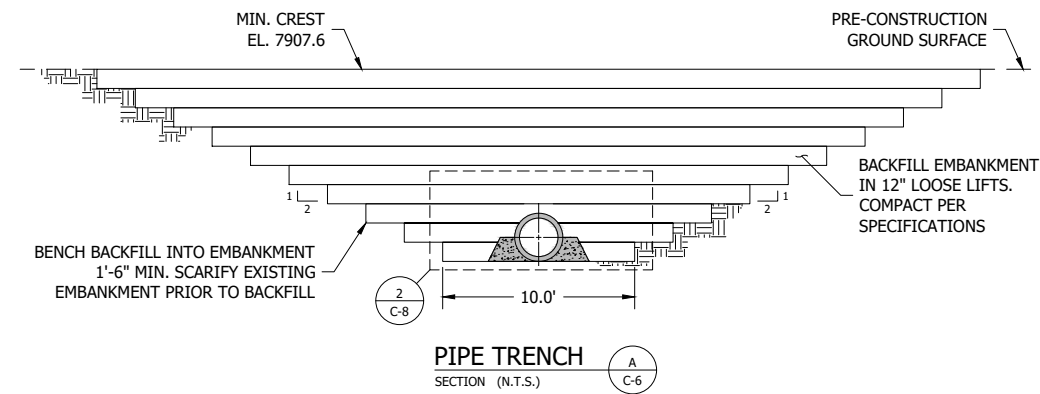
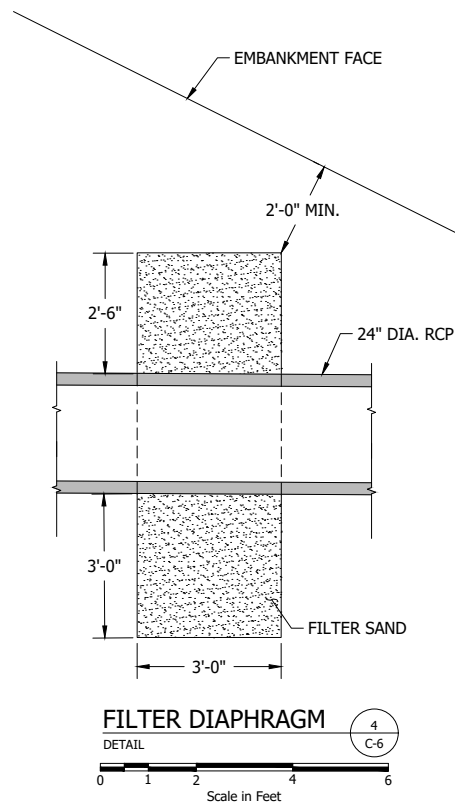
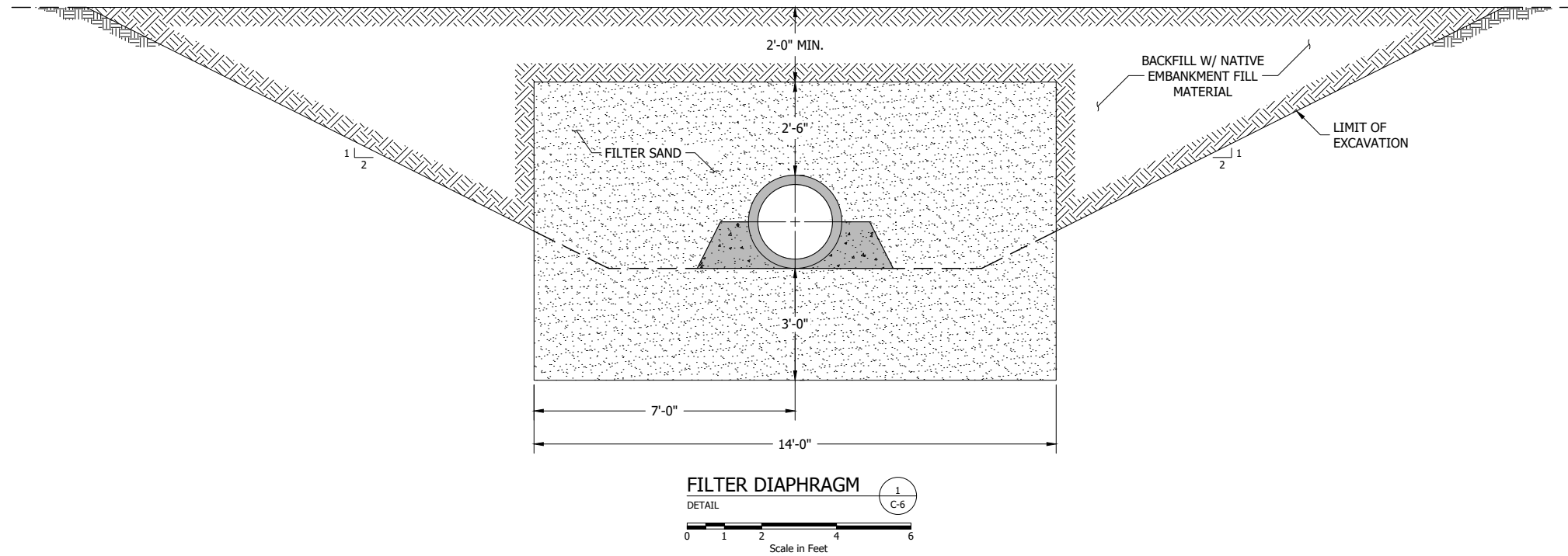
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BURLAND POND NO. 3
REHABILITATION DESIGN
OUTLET WORKS
PLAN AND PROFILE

CLIENT		
FIRE ADAPTED BAILEY		
DESIGN	JTC	WHEELER NO. 1923.01.00
DRAWN	SAA	SHEET NO. 10 of 16
CHECK	TSS	DRAWING NO. C-6
PLOT DATE	10/27/2025	

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- NOTES:
- PLACE BACKFILL CONCRETE BENEATH THE HAUNCHES OF THE PIPE, UP TO THE SPRINGLINE.
 - ANCHOR PIPE TO PREVENT DISTURBANCE, MOVEMENT, OR FLOTATION DURING CONCRETE PLACEMENT.

NO.	DATE	MADE	CHECKED	REMARKS
1	10/25	JTC	TSS	ISSUED FOR CONSTRUCTION

REFERENCE	SHEET NO.	DRAWING NO.	TITLE

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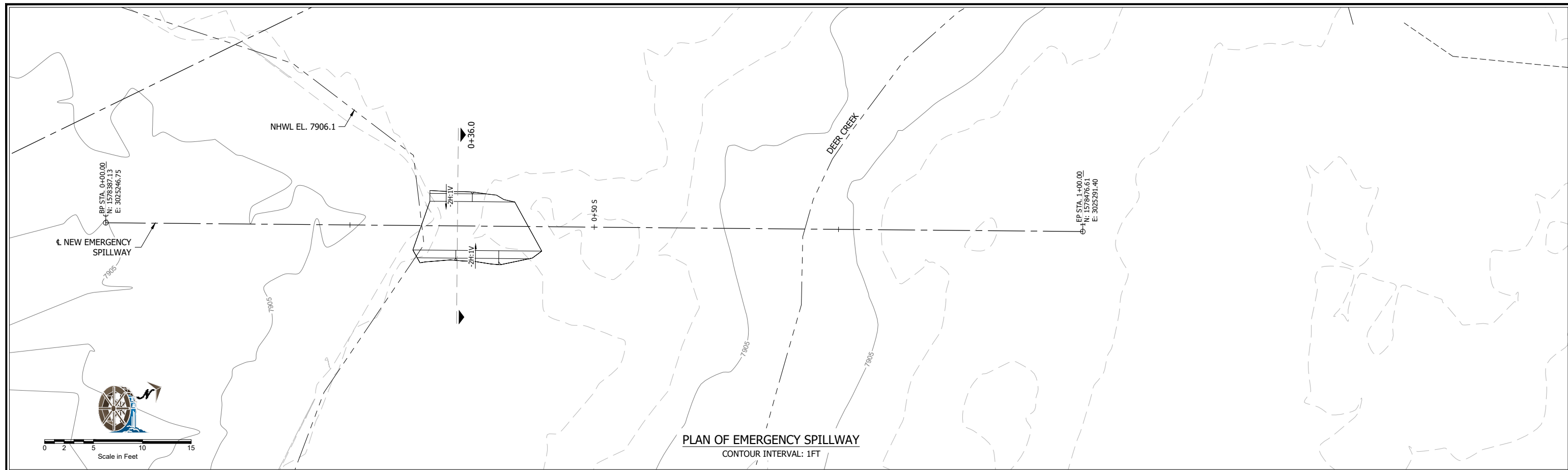
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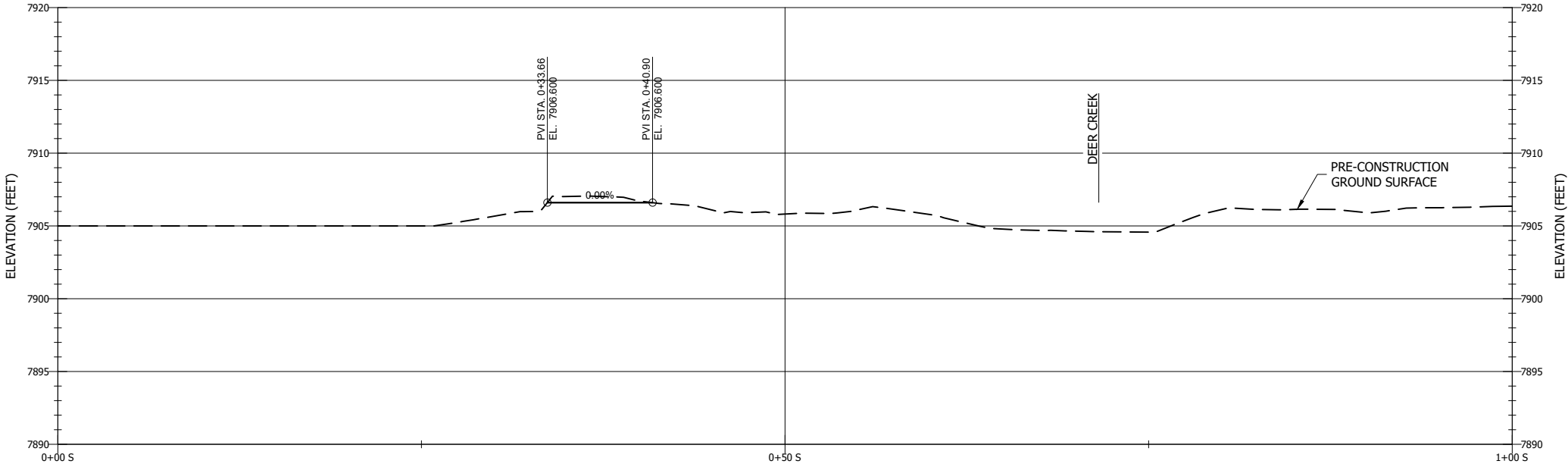
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BURLAND POND NO. 3
REHABILITATION DESIGN
OUTLET WORKS FILTER DIAPHRAGM
DETAILS AND SECTIONS

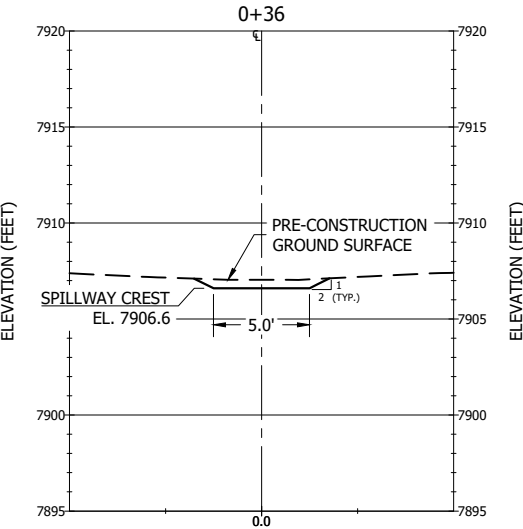
CLIENT		
FIRE ADAPTED BAILEY		
DESIGN	JTC	WHEELER NO. 1923.01.00
DRAWN	SAA	SHEET NO. 12 of 16
CHECK	TSS	DRAWING NO. C-8
PLOT DATE 10/27/2025		



PLAN OF EMERGENCY SPILLWAY
CONTOUR INTERVAL: 1 FT



PROFILE VIEW OF EMERGENCY SPILLWAY ALIGNMENT



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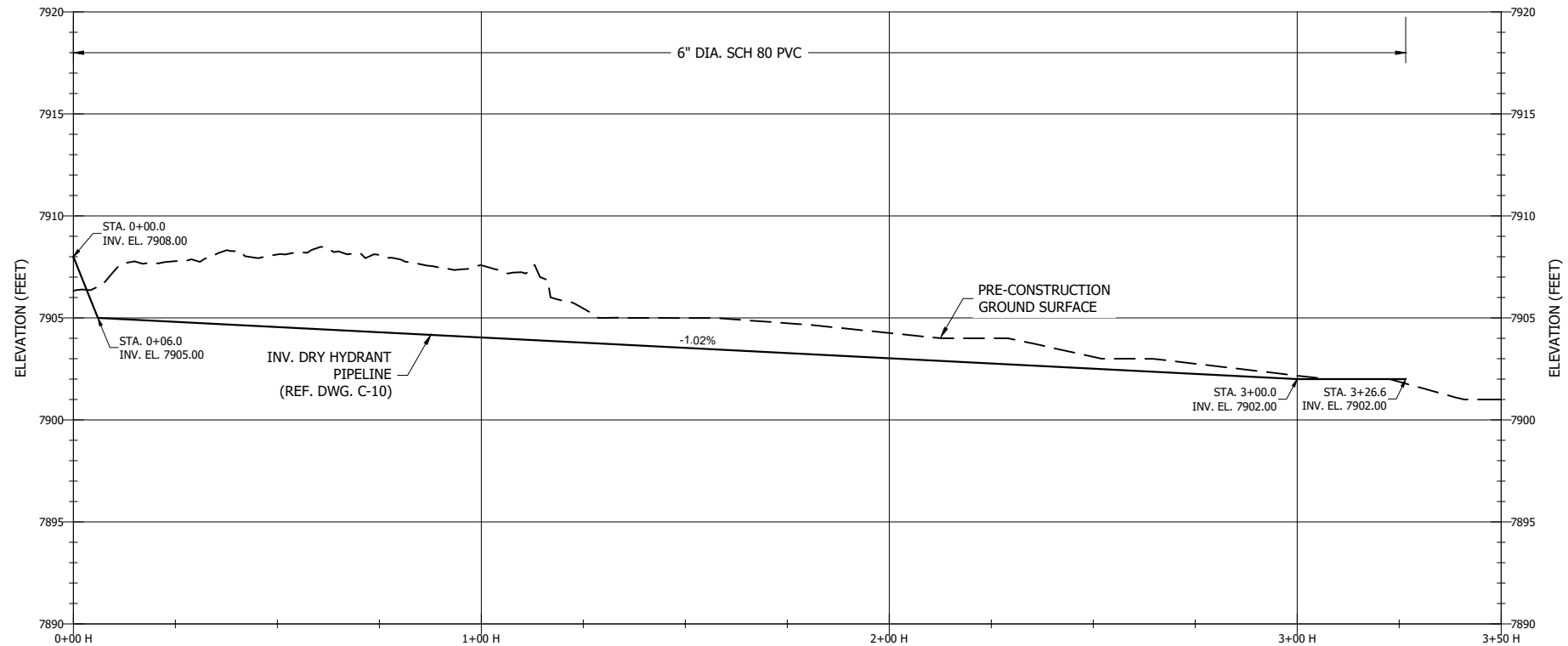
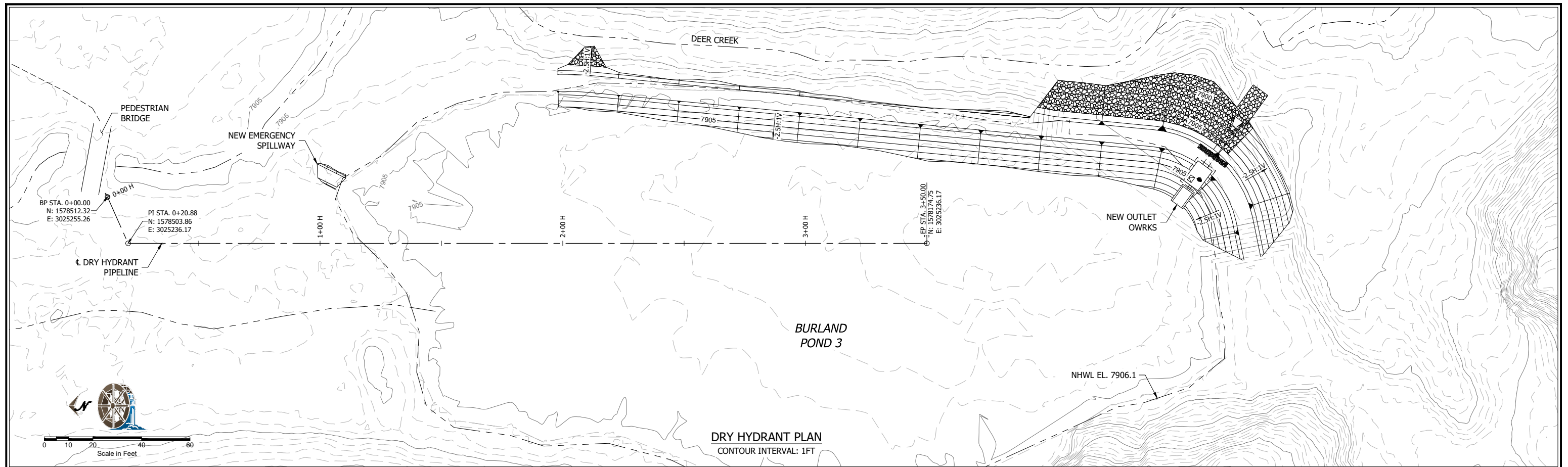
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BURLAND POND NO. 3
REHABILITATION DESIGN
EMERGENCY SPILLWAY
PLAN AND PROFILE

CLIENT		
FIRE ADAPTED BAILEY		
DESIGN	JTC	WHEELER NO. 1923.01.00
DRAWN	SAA	SHEET NO. 13 of 16
CHECK	TSS	DRAWING NO. C-9
PLOT DATE		10/27/2025



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NO.	DATE	MADE	CHECKED	REMARKS
1	10/25	JTC	TSS	ISSUED FOR CONSTRUCTION

REFERENCE	SHEET NO.	DRAWING NO.	TITLE

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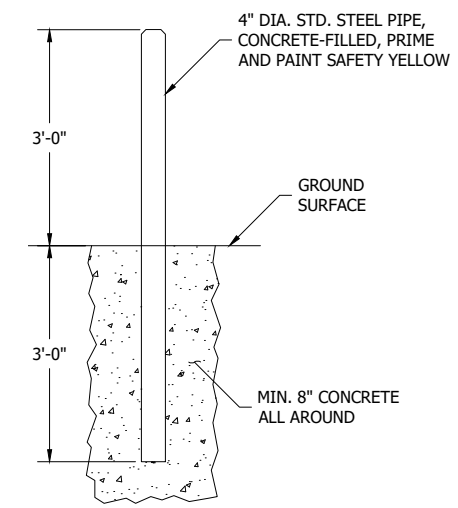
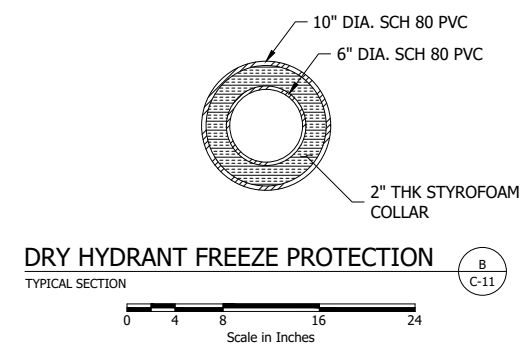
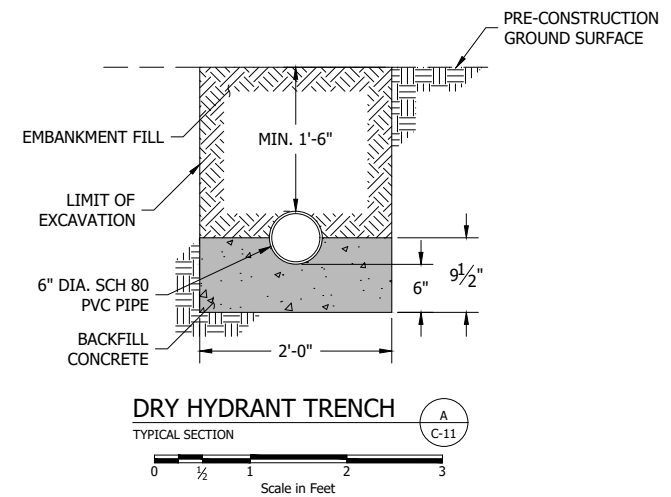
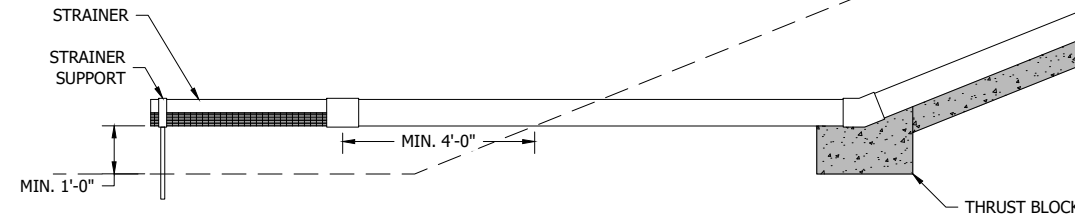
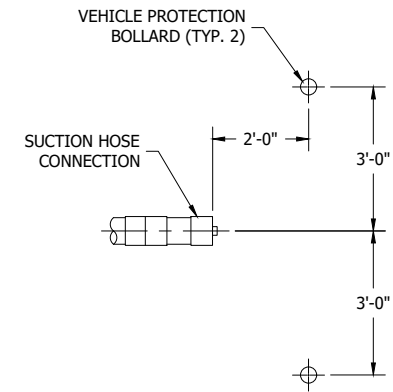
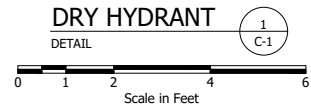
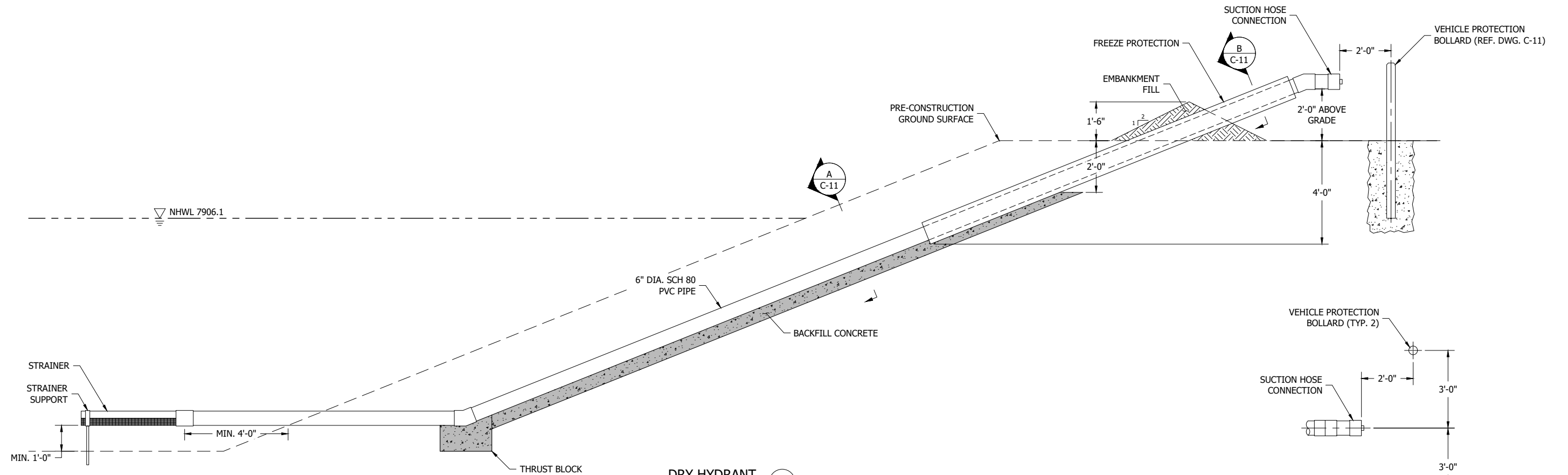
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BURLAND POND NO. 3
REHABILITATION DESIGN
DRY HYDRANT PIPELINE
PLAN AND PROFILE

CLIENT		
FIRE ADAPTED BAILEY		
DESIGN	JTC	WHEELER NO. 1923.01.00
DRAWN	SAA	SHEET NO. 14 of 16
CHECK	TSS	DRAWING NO. C-10
PLOT DATE		10/27/2025

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NO.	DATE	MADE	CHECKED	REMARKS
1	10/25	JTC	TSS	ISSUED FOR CONSTRUCTION

REFERENCE	SHEET NO.	DRAWING NO.	TITLE

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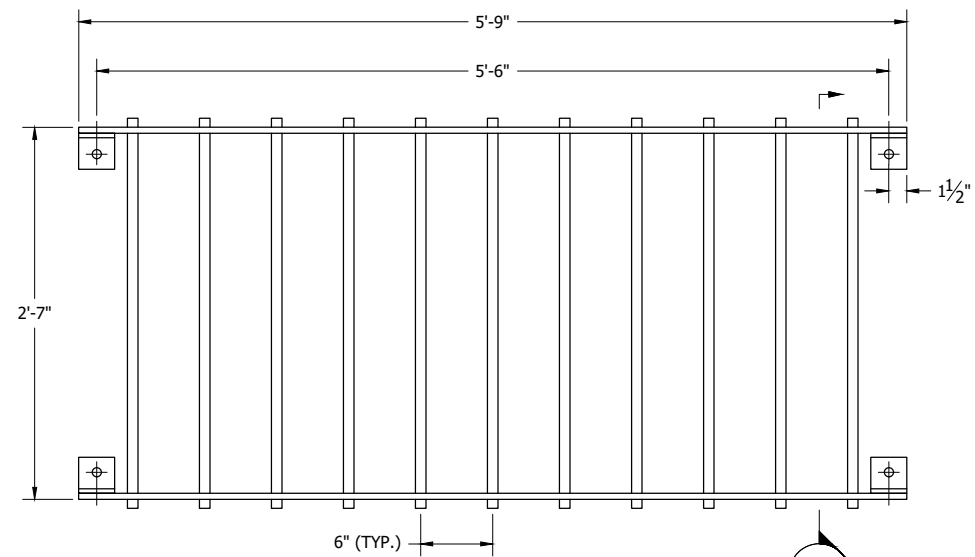
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BURLAND POND NO. 3
REHABILITATION DESIGN
DRY HYDRANT
DETAILS

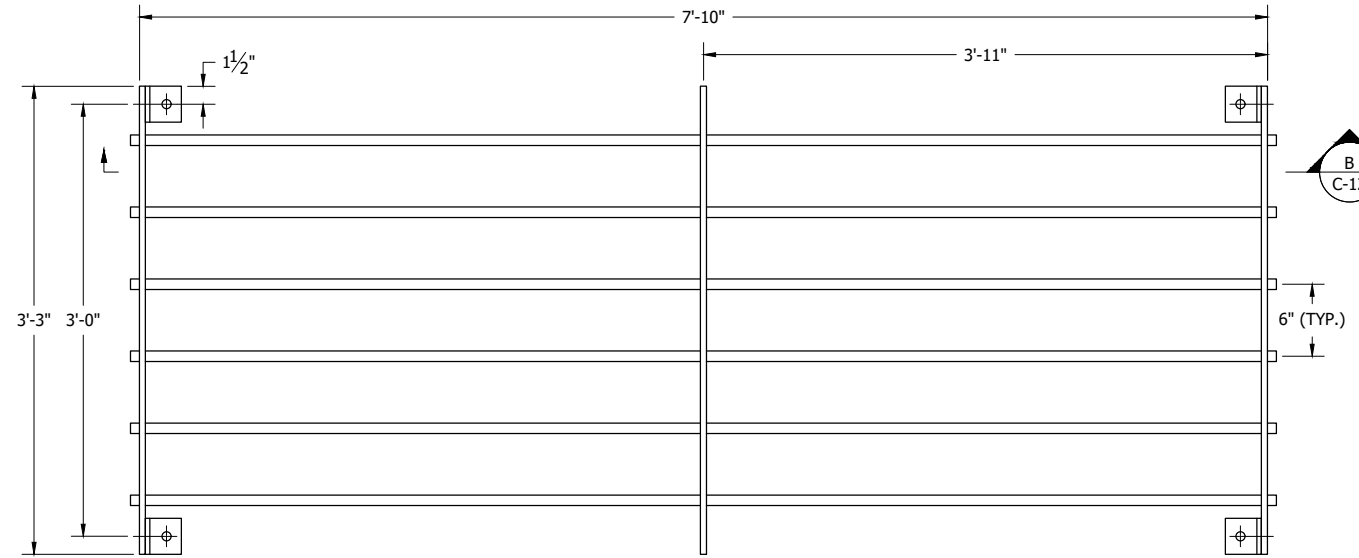
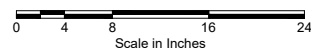
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FIRE ADAPTED BAILEY		
DESIGN	JTC	WHEELER NO. 1923.01.00
DRAWN	SAA	SHEET NO. 15 of 16
CHECK	TSS	DRAWING NO. C-11
DATE	10/27/2025	

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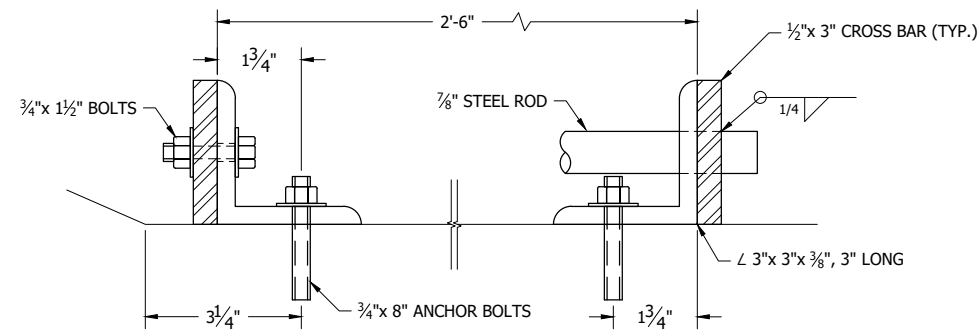
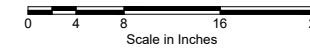
SERVICE SPILLWAY TRASH RACK

DETAIL



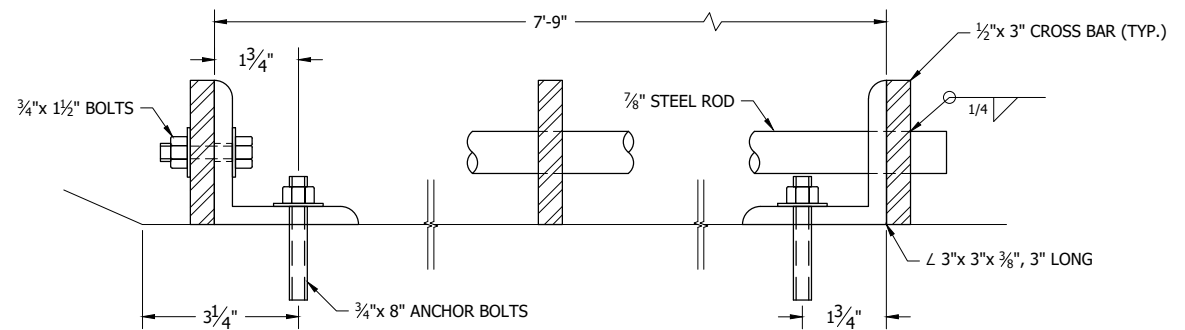
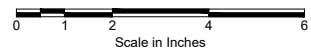
INTAKE STRUCTURE TRASH RACK

DETAIL



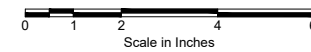
SERVICE SPILLWAY TRASH RACK

SECTION



INTAKE STRUCTURE TRASH RACK

SECTION



NO.	DATE	MADE	CHECKED	REMARKS
1	10/25	JTC	TSS	ISSUED FOR CONSTRUCTION

REFERENCE	SHEET NO.	DRAWING NO.	TITLE

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BURLAND POND NO. 3
REHABILITATION DESIGN
TRASH RACKS
DETAILS AND SECTIONS

CLIENT		
FIRE ADAPTED BAILEY		
DESIGN	JTC	WHEELER NO. 1923.01.00
DRAWN	SAA	SHEET NO. 16 of 16
CHECK	TSS	DRAWING NO. C-12
PLOT DATE 10/27/2025		