

LEGEND

REACH 1 (PHASE 1)



REACH 2 (PHASE 2)

REACH 3 (PHASE 3)

NOTES

SEE SHEET 2 FOR VEGETATIVE RESTORATION NOTES.



400 200 0

ORIGINAL SCALE: 1" = 400

OWNER/DEVELOPER STATEMENT

THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN AND ALL OF THE REQUIREMENTS SPECIFIED IN THESE DETAILED PLANS AND

SPECIFICATIONS. JAMÉS F. MORLEY

SR LAND, LLC 20 BOULDER CRESCENT, SUITE 201 COLORADO SPRINGS, CO 80903

ENGINEER'S STATEMENT

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION CONTROL PLANS AND SPECIFICATIONS, AND SAID PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.

MIKE A. BRAMLETT, P.E. COLORADO P.E. 32314

FOR AND ON BEHALF OF JR ENGINEERING ALL

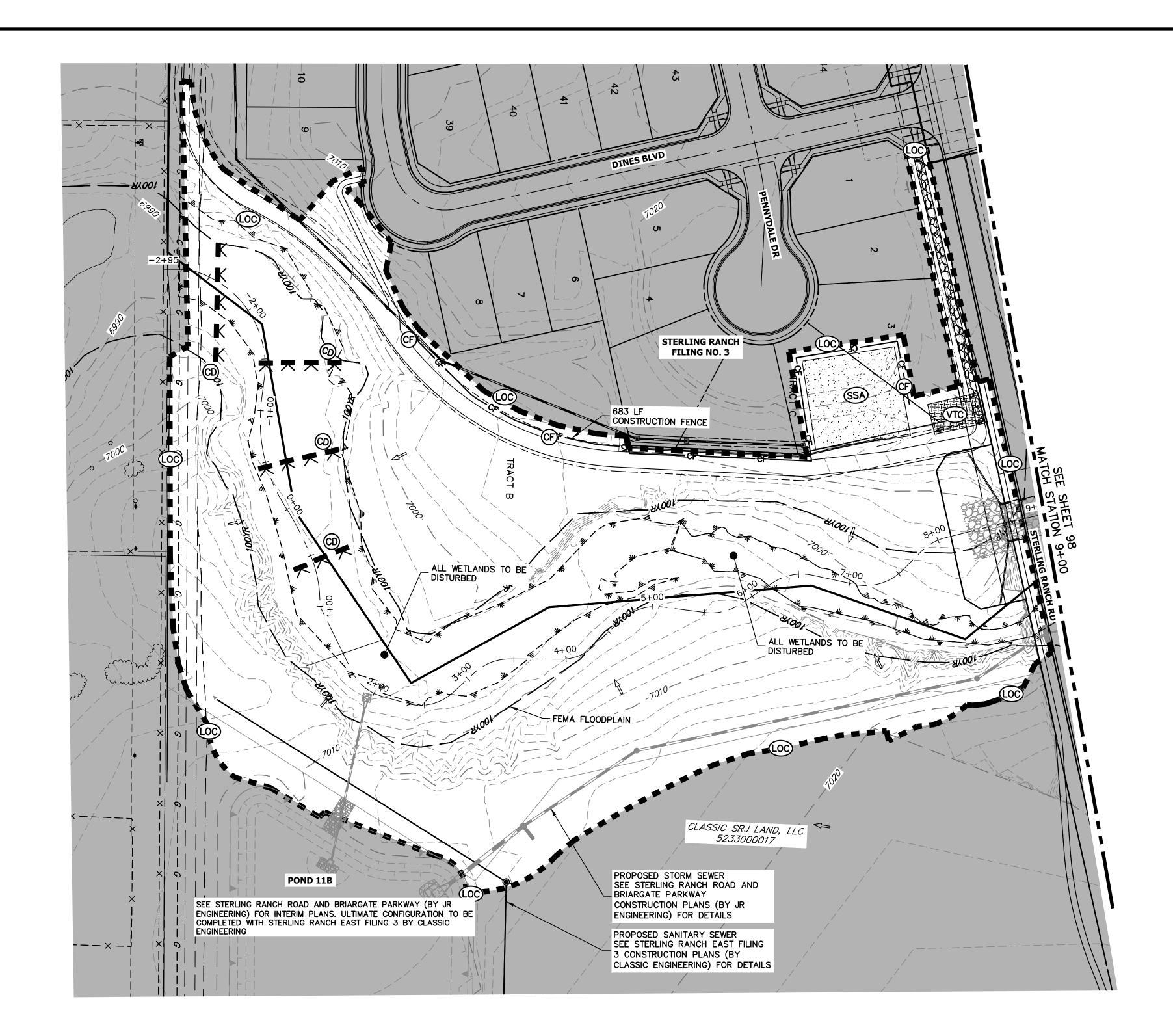
11/20/23 SHEET 96 OF 121

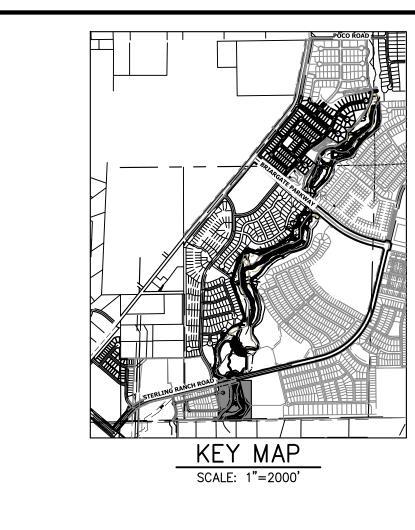
JOB NO. **25188.04**

BASIS OF BEARINGS

THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SECTION 34, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH P.M. AS MONUMENTED AT THE SOUTHWEST CORNER OF SAID BY A 2-1/2" ALUMINUM CAP STAMPED "LS 11624" AND AT THE SOUTEAST CORNER OF SAID SOUTHWEST QUARTER BY A 2-1/2" ALUMINUM CAP STAMPED "LS 11624", SAID LINE BEARS N89'14'14"E, A DISTANCE OF 2,722.69 FEET.

Know what's below. Call before you dig.





TOTAL INITIAL PHASE SUMMARY OF APPROXIMATE QUANTITIES

LF - SILT FENCE (SF) LF - CONSTRUCTION FENCE CF EA - CHECK DAMS CD

LS - STABILIZED STAGING AREA SSA

LS - VEHICLE TRACKING CONTROL (VTC)

BENCHMARK

1. THE TOP OF AN ALUMINUM SURVEYORS CAP, STAMPED "9853", AT THE SOUTHEAST BOUNDARY CORNER OF BARBARICK SUBDIVISION

NORTHING = 411416.273EASTING = 235167.071ELEVATION = 7023.42

2. THE TOP OF A RED PLASTIC SURVEYORS CAP, ILLEGIBLE, AT THE NORTHWEST BOUNDARY CORNER OF PAWNEE RANCHEROS SUBDIVISION

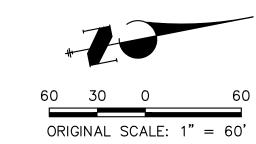
NORTHING = 410095.404EASTING = 235052.131ELEVATION = 7000.40

ELEVATION = 7030.82

3. THE TOP OF A RED PLASTIC SURVEYORS CAP, STAMPED "38141", AT THE SOUTHWEST BOUNDARY CORNER OF BARBARICK SUBDISION NORTHING = 411399.962EASTING = 233849.817

Know what's below. Call before you dig.





ENGINEER'S STATEMENT

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AND SPECIFICATIONS. MIKE A. BRAMLETT, P.E. COLORADO P.E. 32314

11/20/23 FOR AND ON BEHALF OF JR ENGINEERING ALLOW

JOB NO. **25188.04**

LEGEND

EXISTING CONTOUR

EXISTING DRAINAGE ARROW

PROPOSED DRAINAGE ARROW

REINFORCED ROCK BERM FOR CULVERT PROTECTION EXISTING PROPERTY LINE LIMITS OF CONSTRUCTION SEDIMENT CONTROL LOG SCL EXISTING RIGHT OF WAY LINE EXISTING EASEMENT PERMANENT SEEDING
AND MULCHING — NATIVE
REVEGETATION SEED MIX SECTION LINE CONSTRUCTION FENCE SILT FENCE EXISTING STORM SEWER EXISTING CURB & GUTTER WETLANDS TO REMAIN ========= PERMANENT LANDSCAPING PROPOSED EASEMENT STABILIZED STAGING AREA PROPOSED STORM SEWER GEOTEXTILE PROPOSED CURB & GUTTER CONCRETE WASHOUT AREA PROPOSED TOP OF SLOPE COIR MATTING PROPOSED TOE OF SLOPE STOCK PILE

TEMP DRAINAGE CHANNEL

PROPOSED CONTOUR

CHECK DAM ROUGHENING

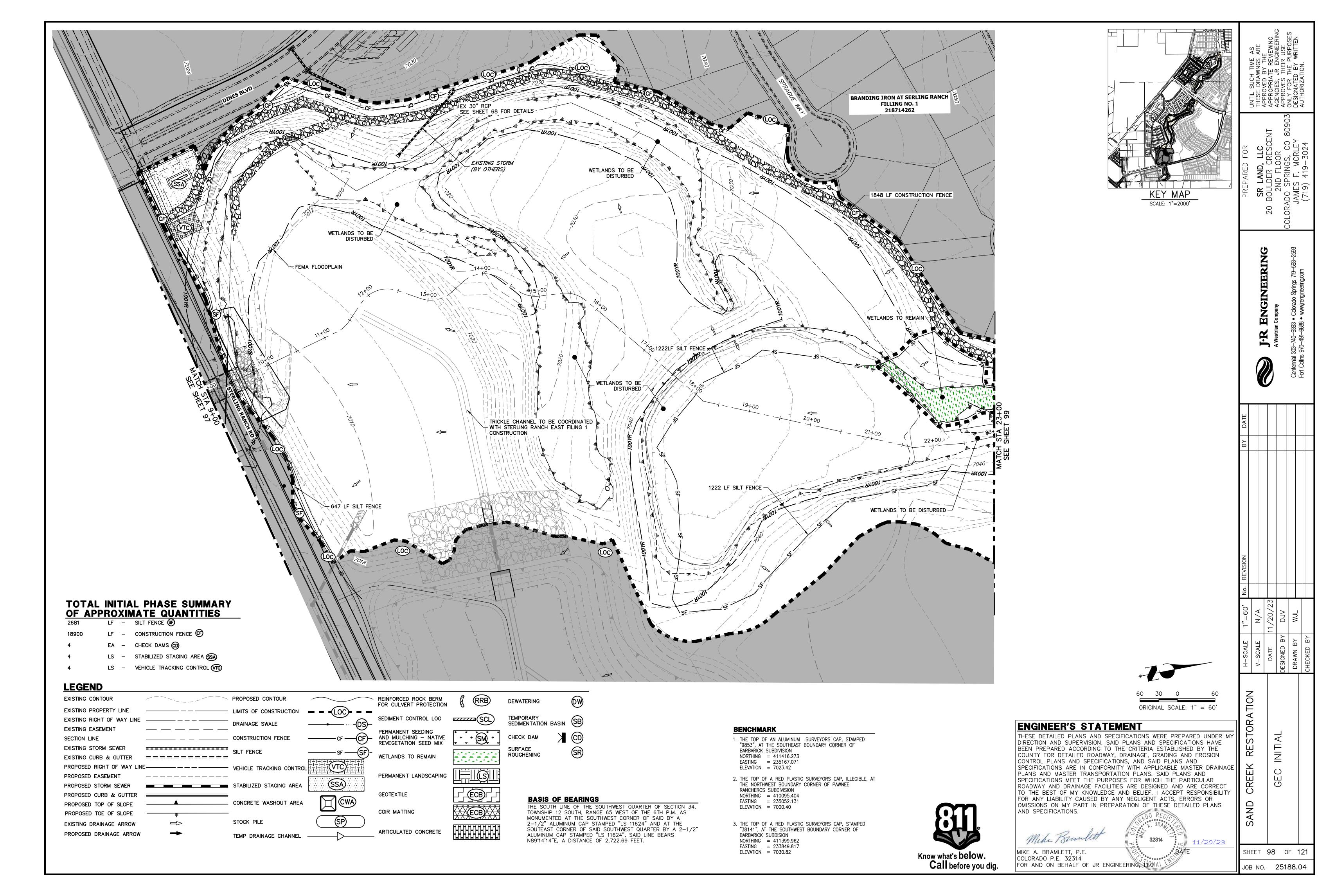
ARTICULATED CONCRETE

BASIS OF BEARINGS

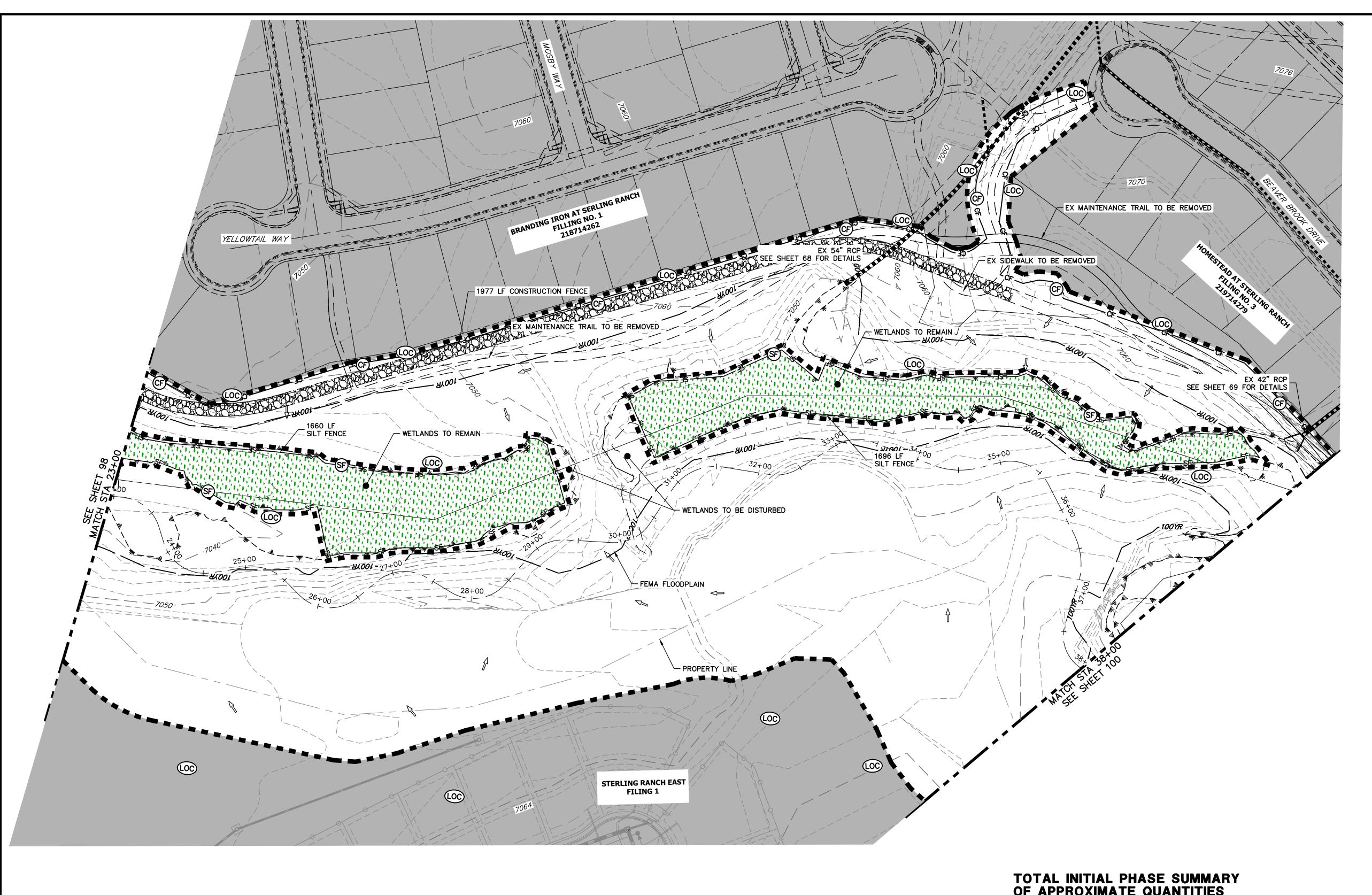
DEWATERING

TEMPORARY
SEDIMENTATION BASIN SB

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DEWATERING

CHECK DAM

ROUGHENING

TEMPORARY
SEDIMENTATION BASIN SB

BASIS OF BEARINGS

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REINFORCED ROCK BERM FOR CULVERT PROTECTION

PERMANENT SEEDING
AND MULCHING — NATIVE
REVEGETATION SEED MIX

PERMANENT LANDSCAPING

ARTICULATED CONCRETE

WETLANDS TO REMAIN

GEOTEXTILE

COIR MATTING

SEDIMENT CONTROL LOG

PROPOSED CONTOUR

CONSTRUCTION FENCE

SILT FENCE

STABILIZED STAGING AREA

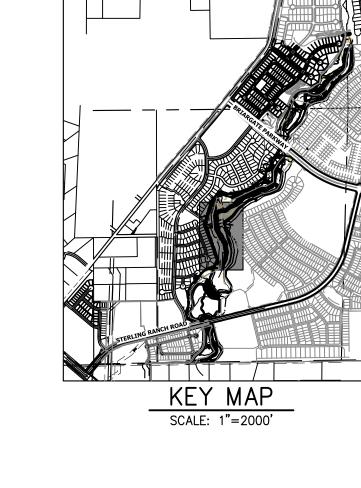
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LIMITS OF CONSTRUCTION

CONCRETE WASHOUT AREA

TEMP DRAINAGE CHANNEL

STOCK PILE



4	+ /				
60	30	0			6
ORIO	GINAL	SCALE:	1"	=	60

OF APPROXIMATE QUANTITIES LF - SILT FENCE (SF)

LF - CONSTRUCTION FENCE CF

EA - CHECK DAMS 📵

LS - STABILIZED STAGING AREA (SA)

LS - VEHICLE TRACKING CONTROL (TC)

BENCHMARK

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ELEVATION = 7023.42

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NORTHING = 410095.404EASTING = 235052.131

ELEVATION = 7000.40

3. THE TOP OF A RED PLASTIC SURVEYORS CAP, STAMPED "38141", AT THE SOUTHWEST BOUNDARY CORNER OF BARBARICK SUBDISION NORTHING = 411399.962

EASTING = 233849.817ELEVATION = 7030.82



Call before you dig.

ENGINEER'S STATEMENT

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Mike Bunlitt	32314 32314 11/	′20
MIKE A. BRAMLETT, P.E. COLORADO P.E. 32314	BATE	
FOR AND ON BEHALF OF JR ENGIN	NEERING AL CHIMIN	

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	SHEET	99 OF	121

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SHEET 99 OF 121 JOB NO. **25188.04**

LEGEND

EXISTING CONTOUR

EXISTING EASEMENT

EXISTING STORM SEWER

PROPOSED EASEMENT

EXISTING CURB & GUTTER

PROPOSED STORM SEWER

PROPOSED CURB & GUTTER

PROPOSED TOP OF SLOPE

PROPOSED TOE OF SLOPE

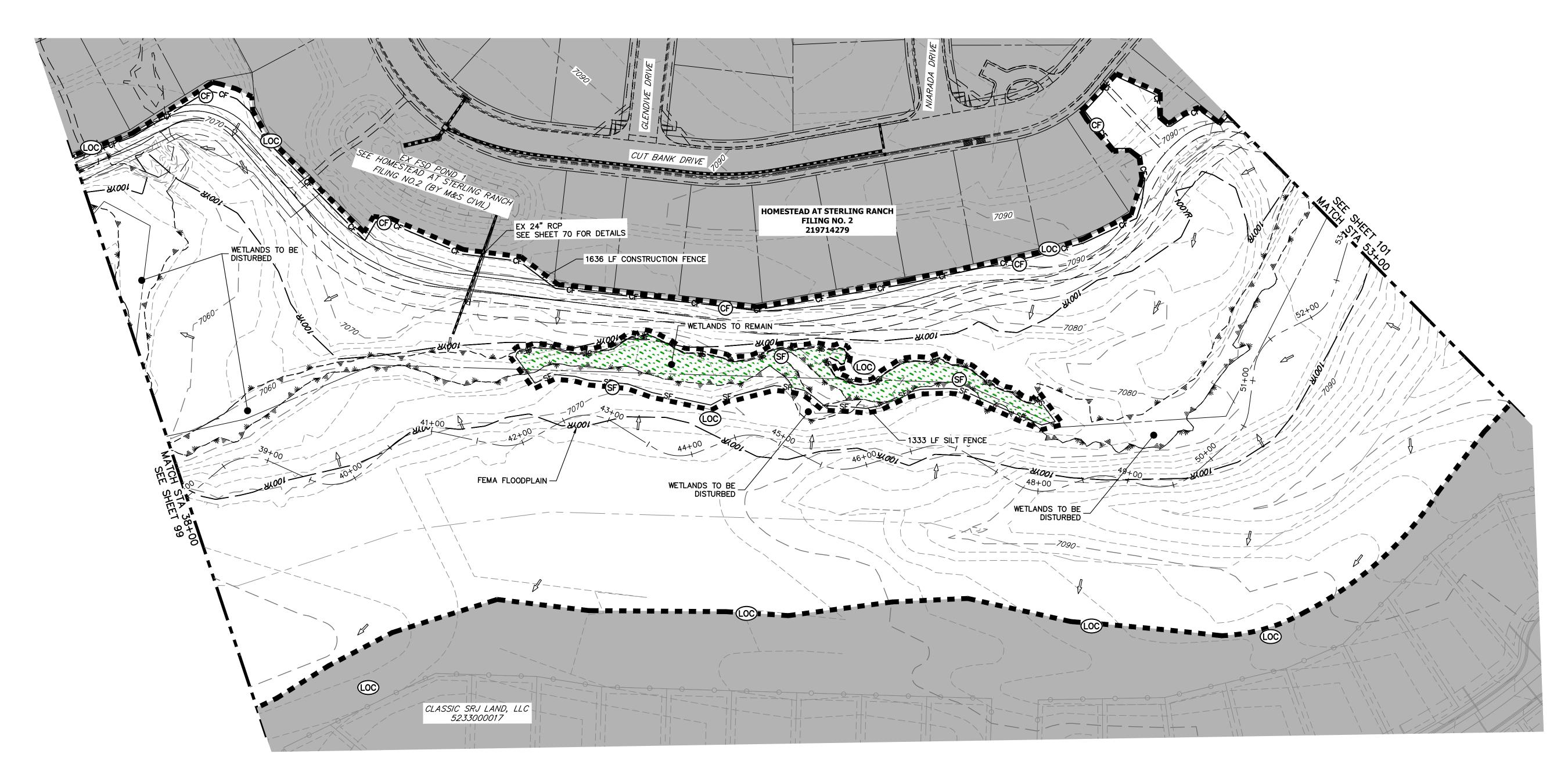
EXISTING DRAINAGE ARROW

PROPOSED DRAINAGE ARROW

SECTION LINE

EXISTING PROPERTY LINE

EXISTING RIGHT OF WAY LINE



REINFORCED ROCK BERM FOR CULVERT PROTECTION

PERMANENT SEEDING
AND MULCHING — NATIVE
REVEGETATION SEED MIX

WETLANDS TO REMAIN

GEOTEXTILE

COIR MATTING

PERMANENT LANDSCAPING

ARTICULATED CONCRETE

SEDIMENT CONTROL LOG SCL

DEWATERING

CHECK DAM

ROUGHENING

TEMPORARY
SEDIMENTATION BASIN SB

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PROPOSED CONTOUR

CONSTRUCTION FENCE

CONCRETE WASHOUT AREA

TEMP DRAINAGE CHANNEL

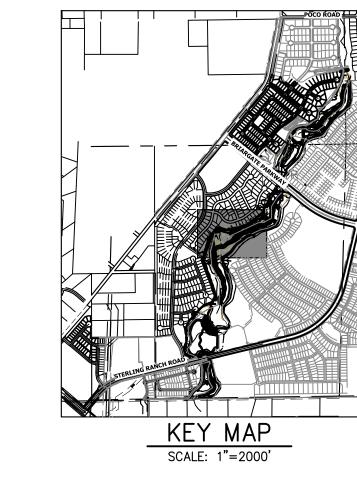
STOCK PILE

SILT FENCE

STABILIZED STAGING AREA

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LIMITS OF CONSTRUCTION -



ORIGINAL SCALE: 1" = 60"

TOTAL INITIAL PHASE SUMMARY OF APPROXIMATE QUANTITIES

LF - SILT FENCE SF LF - CONSTRUCTION FENCE 🕞

EA – CHECK DAMS 📵

LS - STABILIZED STAGING AREA SSA

LS - VEHICLE TRACKING CONTROL (TC)

BENCHMARK

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BRAZ.
MI RALLEY
Mike / Stranger 32314 == 11/20/23
MIKE A. BRAMLETT, P.E.
COLORADO P.E. 32314
FOR AND ON BEHALF OF JR ENGINEERING JOYAL MINING
TOTAL STATE OF STATE

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_	SHEET 1	00	OF	121

JOB NO. **25188.04**

LEGEND

EXISTING CONTOUR

EXISTING EASEMENT

EXISTING STORM SEWER

PROPOSED EASEMENT

EXISTING CURB & GUTTER

PROPOSED STORM SEWER

PROPOSED CURB & GUTTER

PROPOSED TOP OF SLOPE

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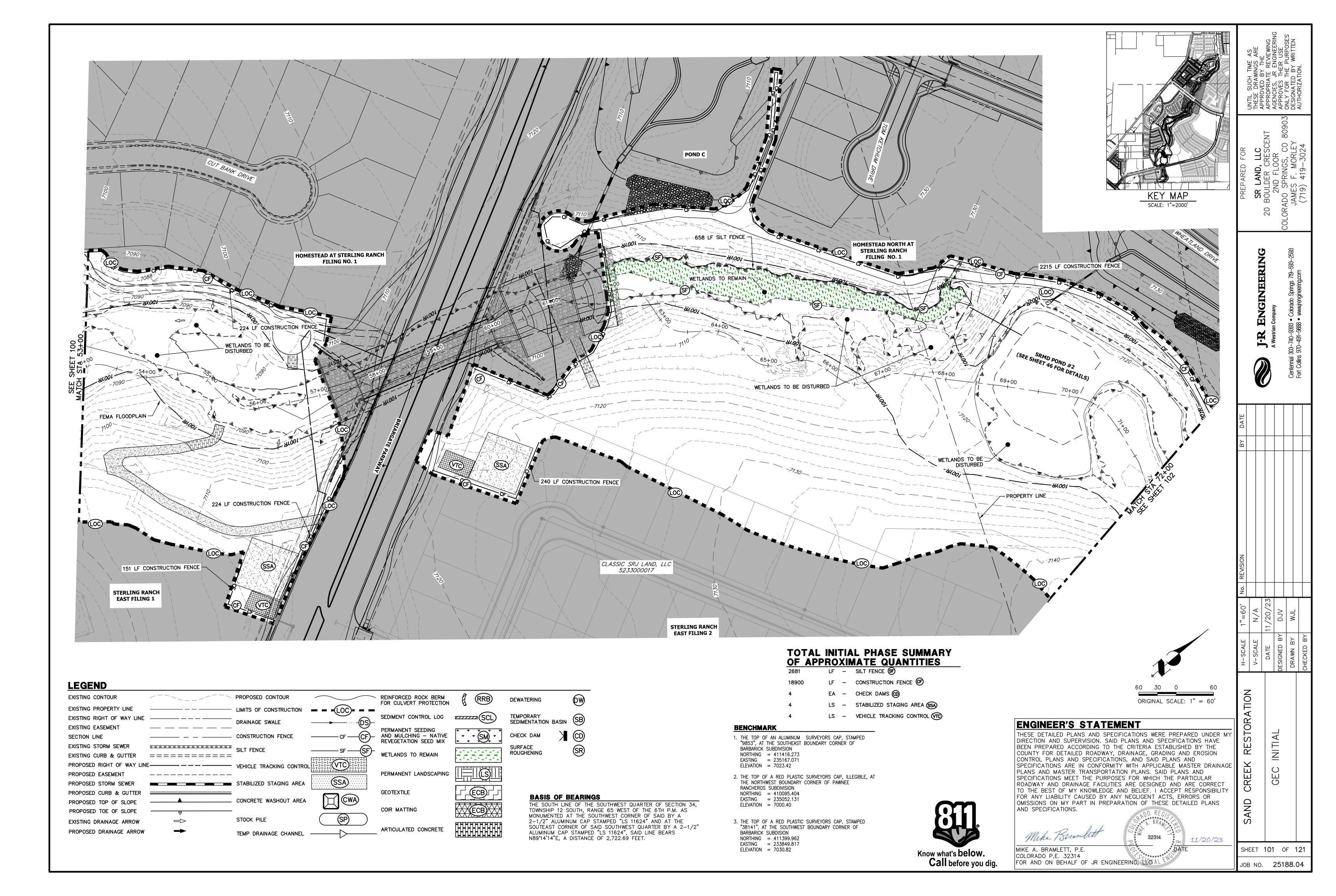
EXISTING DRAINAGE ARROW

PROPOSED DRAINAGE ARROW

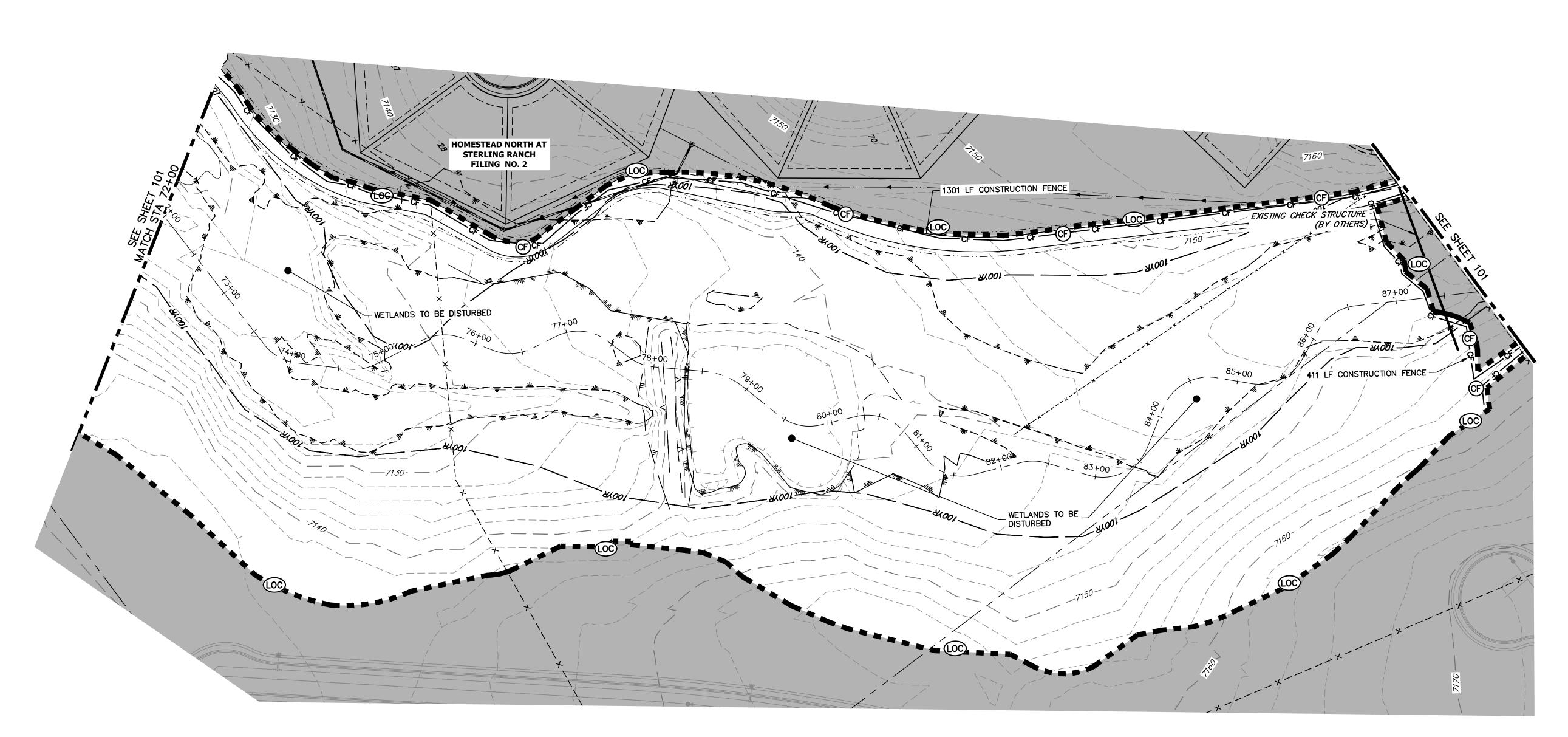
SECTION LINE

EXISTING PROPERTY LINE

EXISTING RIGHT OF WAY LINE



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REINFORCED ROCK BERM FOR CULVERT PROTECTION

PERMANENT SEEDING
AND MULCHING — NATIVE
REVEGETATION SEED MIX

WETLANDS TO REMAIN

GEOTEXTILE

COIR MATTING

PERMANENT LANDSCAPING

ARTICULATED CONCRETE

SEDIMENT CONTROL LOG ZZZZZZ SCL

DEWATERING

CHECK DAM

ROUGHENING

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SEDIMENTATION BASIN SB

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PROPOSED CONTOUR

CONSTRUCTION FENCE

STABILIZED STAGING AREA

SILT FENCE

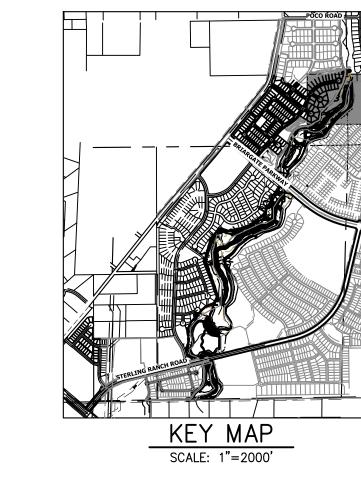
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LIMITS OF CONSTRUCTION

CONCRETE WASHOUT AREA

TEMP DRAINAGE CHANNEL

STOCK PILE



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1"=60' No. REVISION		1)/23				
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ORIGINAL SCALE: 1" = 60

TOTAL INITIAL PHASE SUMMARY OF APPROXIMATE QUANTITIES

LF - SILT FENCE (SF) LF - CONSTRUCTION FENCE (F) EA - CHECK DAMS CO

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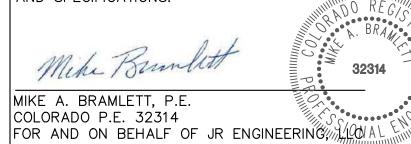
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LEGEND

EXISTING CONTOUR

EXISTING EASEMENT

SECTION LINE

EXISTING PROPERTY LINE

EXISTING STORM SEWER

PROPOSED EASEMENT

PROPOSED STORM SEWER

PROPOSED CURB & GUTTER

PROPOSED TOP OF SLOPE

PROPOSED TOE OF SLOPE

EXISTING DRAINAGE ARROW

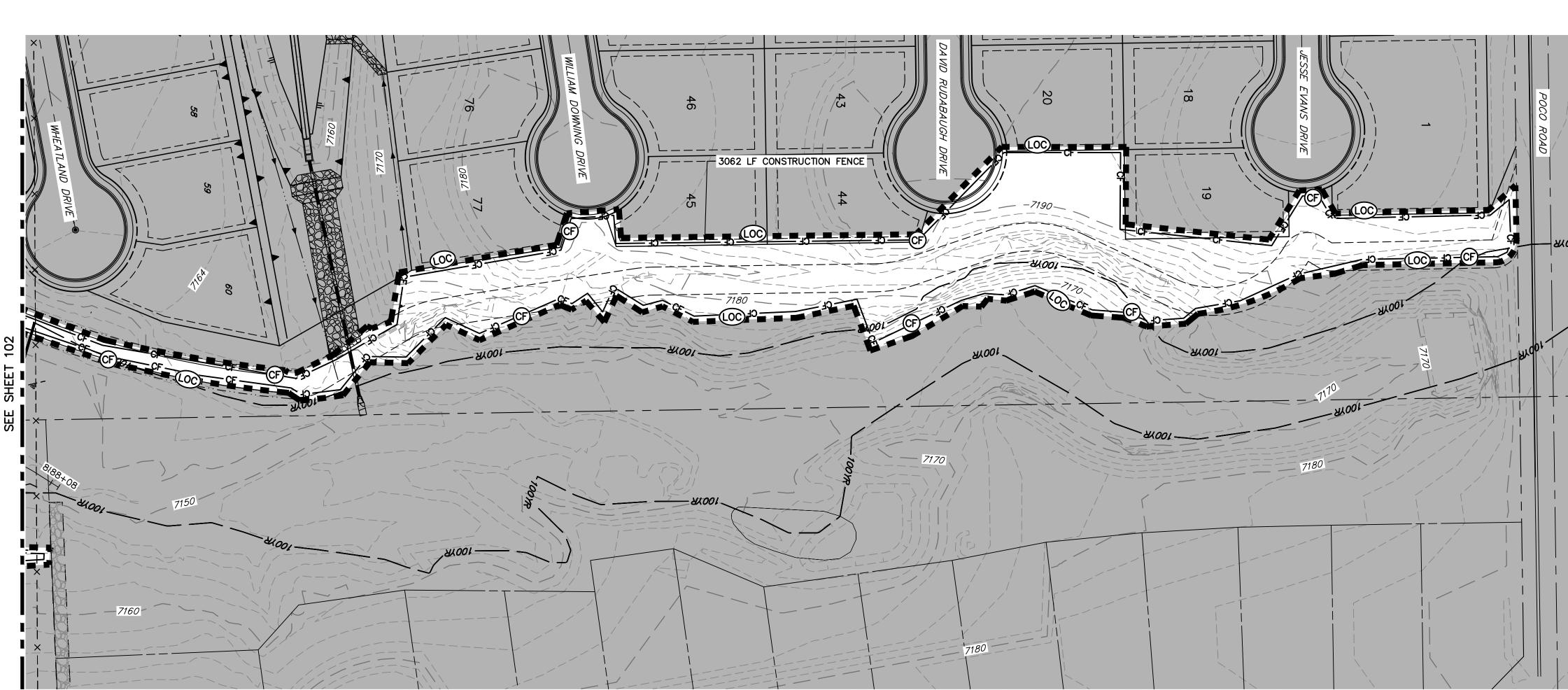
PROPOSED DRAINAGE ARROW

EXISTING CURB & GUTTER

EXISTING RIGHT OF WAY LINE

102 OF 121 JOB NO. 25188.04

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OF APPROXIMATE QUANTITIES LF - SILT FENCE **SF** LF - CONSTRUCTION FENCE CF EA - CHECK DAMS CO LS - STABILIZED STAGING AREA SSA

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TION

JOB NO. **25188.04**

LEGEND

REINFORCED ROCK BERM FOR CULVERT PROTECTION PROPOSED CONTOUR EXISTING CONTOUR **DEWATERING** EXISTING PROPERTY LINE LIMITS OF CONSTRUCTION SEDIMENT CONTROL LOG SCL EXISTING RIGHT OF WAY LINE EXISTING EASEMENT PERMANENT SEEDING
AND MULCHING — NATIVE
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TEMPORARY
SEDIMENTATION BASIN SB CHECK DAM ROUGHENING

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ARTICULATED CONCRETE

2-1/2" ALUMINUM CAP STAMPED "LS 11624" AND AT THE

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SOUTEAST CORNER OF SAID SOUTHWEST QUARTER BY A 2-1/2" ALUMINUM CAP STAMPED "LS 11624", SAID LINE BEARS

TOTAL INTERIM PHASE SUMMARY

OF APPROXIMATE QUANTITIES EA - REINFORCED ROCK BERM FOR CULVERT PROTECTION EA - CONCRETE WASHOUT AREA CHECK DAMS SEDIMENT CONTROL LOGS TEMPORARY SEDIMENT BASIN

EXISTING DRAINAGE ARROW

PROPOSED DRAINAGE ARROW

LEGEND						
EXISTING CONTOUR		PROPOSED CONTOUR		REINFORCED ROCK BERM FOR CULVERT PROTECTION	(RRB)	DEWATERING (DW)
EXISTING PROPERTY LINE		LIMITS OF CONSTRUCTION	(LOC)	FOR COLVERT PROTECTION		
EXISTING RIGHT OF WAY LINE		DRAINAGE SWALE		SEDIMENT CONTROL LOG	SCL)	TEMPORARY SEDIMENTATION BASIN (SB)
EXISTING EASEMENT				PERMANENT SEEDING	* * * *	\ -
SECTION LINE		CONSTRUCTION FENCE	——————————————————————————————————————	AND MULCHING — NATIVE REVEGETATION SEED MIX	* * * (SM) *	CHECK DAM CD
EXISTING STORM SEWER		SILT FENCE		NEVEGETATION SEED WITA		SURFACE
EXISTING CURB & GUTTER	=========	SIET TENOE		WETLANDS TO REMAIN		ROUGHENING (SR)
PROPOSED RIGHT OF WAY LIN	E	VEHICLE TRACKING CONTRO				
PROPOSED EASEMENT				PERMANENT LANDSCAPING		
PROPOSED STORM SEWER		STABILIZED STAGING AREA	(SSA)			
PROPOSED CURB & GUTTER				GEOTEXTILE	LT_(ECB)T_T	DACIC OF DEADINGS
PROPOSED TOP OF SLOPE		CONCRETE WASHOUT AREA	[CWA)			BASIS OF BEARINGS THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SECTION
PROPOSED TOE OF SLOPE	— — — — — — — — — — — — — — — — — — —			COIR MATTING	(ECB)	TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH P.M. A
		STOCK PILE				MONUMENTED AT THE SOUTHWEST CORNER OF SAID BY A

STOCK PILE

TEMP DRAINAGE CHANNEL

BENCHMARK

- 1. THE TOP OF AN ALUMINUM SURVEYORS CAP, STAMPED "9853", AT THE SOUTHEAST BOUNDARY CORNER OF BARBARICK SUBDIVISION
- NORTHING = 411416.273EASTING = 235167.071ELEVATION = 7023.42
- 2. THE TOP OF A RED PLASTIC SURVEYORS CAP, ILLEGIBLE, AT THE NORTHWEST BOUNDARY CORNER OF PAWNEE RANCHEROS SUBDIVISION NORTHING = 410095.404
- EASTING = 235052.131ELEVATION = 7000.40
- 3. THE TOP OF A RED PLASTIC SURVEYORS CAP, STAMPED "38141", AT THE SOUTHWEST BOUNDARY CORNER OF BARBARICK SUBDISION NORTHING = 411399.962

EASTING = 233849.817ELEVATION = 7030.82











THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY SPECIFICATIONS ARE IN CONFORMITY WITH APPLICABLE MASTER DRAINAGE TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY

OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS. 11/20/23

ORIGINAL SCALE: 1" = 60

ENGINEER'S STATEMENT

FOR AND ON BEHALF OF JR ENGINEERING ALLOW

MIKE A. BRAMLETT, P.E.

COLORADO P.E. 32314

DIRECTION AND SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE

BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE

COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION

CONTROL PLANS AND SPECIFICATIONS, AND SAID PLANS AND

PLANS AND MASTER TRANSPORTATION PLANS. SAID PLANS AND

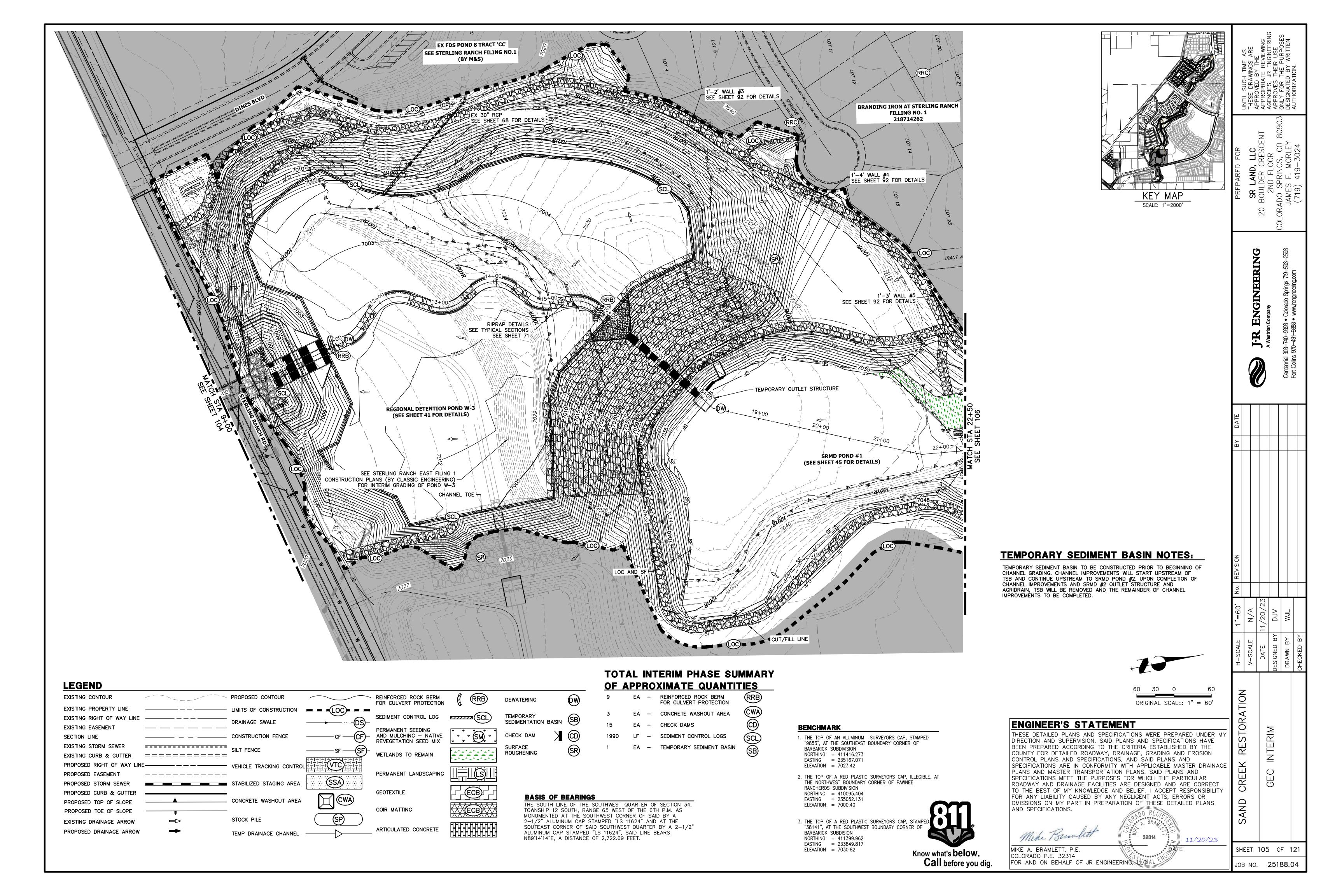
SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR

FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR

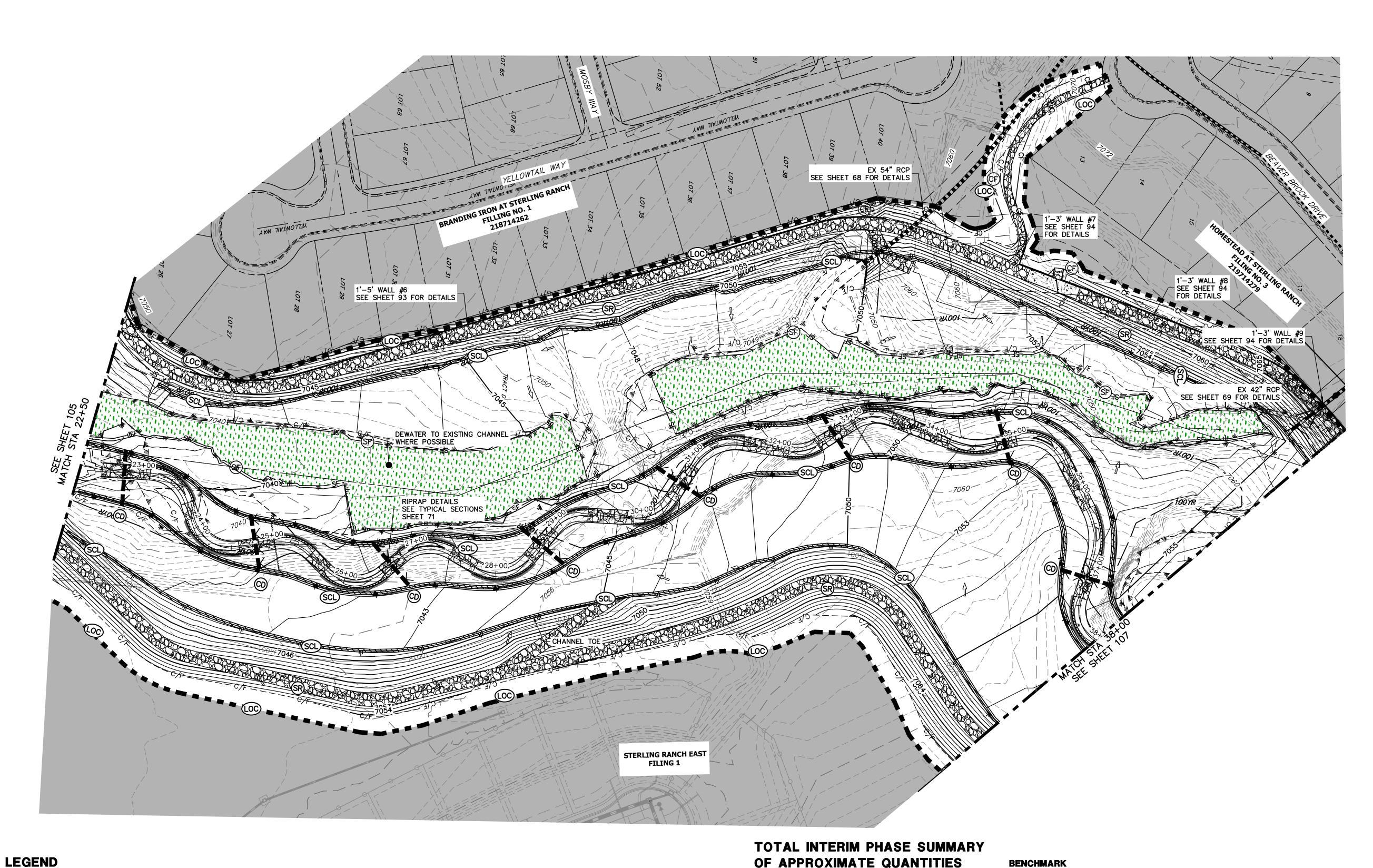
ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT

SHEET 104 OF 121

JOB NO. **25188.04**



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ORIGINAL SCALE: 1" = 60THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE

11/20/23

60 30 0

ENGINEER'S STATEMENT

FOR AND ON BEHALF OF JR ENGINEERING ALLOW

AND SPECIFICATIONS.

MIKE A. BRAMLETT, P.E.

COLORADO P.E. 32314

BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE

COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION

SPECIFICATIONS ARE IN CONFORMITY WITH APPLICABLE MASTER DRAINAGE

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PLANS AND MASTER TRANSPORTATION PLANS. SAID PLANS AND

SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR

FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR

OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS

SHEET 106 OF 121 JOB NO. **25188.04**

OF APPROXIMATE QUANTITIES

EA - REINFORCED ROCK BERM FOR CULVERT PROTECTION EA - CONCRETE WASHOUT AREA EA - CHECK DAMS LF - SEDIMENT CONTROL LOGS EA - TEMPORARY SEDIMENT BASIN

BASIS OF BEARINGS

THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SECTION 34, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH P.M. AS MONUMENTED AT THE SOUTHWEST CORNER OF SAID BY A 2-1/2" ALUMINUM CAP STAMPED "LS 11624" AND AT THE SOUTEAST CORNER OF SAID SOUTHWEST QUARTER BY A 2-1/2" ALUMINUM CAP STAMPED "LS 11624", SAID LINE BEARS N89°14'14"E, A DISTANCE OF 2,722.69 FEET.

BENCHMARK

1. THE TOP OF AN ALUMINUM SURVEYORS CAP, STAMPED "9853", AT THE SOUTHEAST BOUNDARY CORNER OF BARBARICK SUBDIVISION NORTHING = 411416.273 EASTING = 235167.071

2. THE TOP OF A RED PLASTIC SURVEYORS CAP, ILLEGIBLE, AT THE NORTHWEST BOUNDARY CORNER OF PAWNEE RANCHEROS SUBDIVISION

NORTHING = 410095.404 EASTING = 235052.131ELEVATION = 7000.40

ELEVATION = 7023.42

3. THE TOP OF A RED PLASTIC SURVEYORS CAP, STAMPED "38141", AT THE SOUTHWEST BOUNDARY CORNER OF

BARBARICK SUBDISION NORTHING = 411399.962 EASTING = 233849.817ELEVATION = 7030.82

Know what's below. Call before you dig.

GEOTEXTILE CONCRETE WASHOUT AREA COIR MATTING STOCK PILE ARTICULATED CONCRETE

PROPOSED CONTOUR

CONSTRUCTION FENCE

SILT FENCE

STABILIZED STAGING AREA

PROPOSED RIGHT OF WAY LINE ------ VEHICLE TRACKING CONTROL

LIMITS OF CONSTRUCTION

TEMP DRAINAGE CHANNEL

EXISTING CONTOUR

EXISTING EASEMENT

EXISTING STORM SEWER

PROPOSED EASEMENT

PROPOSED STORM SEWER

PROPOSED CURB & GUTTER

PROPOSED TOP OF SLOPE

PROPOSED TOE OF SLOPE

EXISTING DRAINAGE ARROW

PROPOSED DRAINAGE ARROW

SECTION LINE

EXISTING PROPERTY LINE

EXISTING RIGHT OF WAY LINE

REINFORCED ROCK BERM FOR CULVERT PROTECTION

PERMANENT SEEDING AND MULCHING — NATIVE REVEGETATION SEED MIX

WETLANDS TO REMAIN

PERMANENT LANDSCAPING

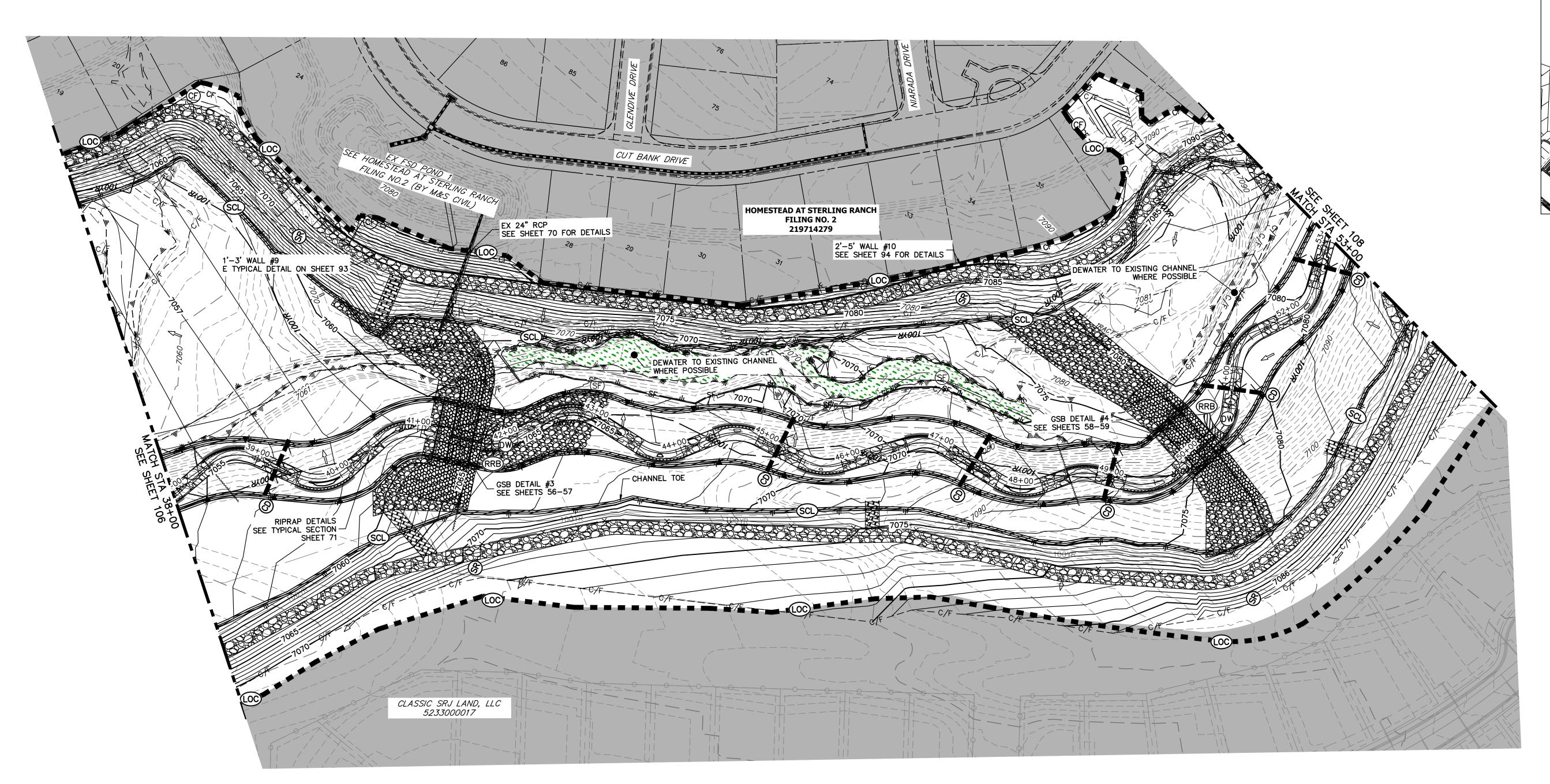
SEDIMENT CONTROL LOG

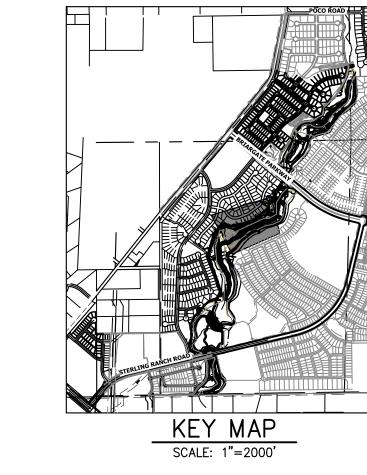
DEWATERING

CHECK DAM

ROUGHENING

TEMPORARY SEDIMENTATION BASIN





ORIGINAL SCALE: 1" = 60"

ENGINEER'S STATEMENT

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION CONTROL PLANS AND SPECIFICATIONS, AND SAID PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.

MIKE A. BRAMLETT, P.E. COLORADO P.E. 32314 FOR AND ON BEHALF OF JR ENGINEERING ALL

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SHEET 107 OF 121 JOB NO. **25188.04**

REINFORCED ROCK BERM FOR CULVERT PROTECTION PROPOSED CONTOUR EXISTING PROPERTY LINE LIMITS OF CONSTRUCTION SEDIMENT CONTROL LOG SCL EXISTING RIGHT OF WAY LINE EXISTING EASEMENT PERMANENT SEEDING
AND MULCHING — NATIVE
REVEGETATION SEED MIX SECTION LINE CONSTRUCTION FENCE SILT FENCE EXISTING STORM SEWER WETLANDS TO REMAIN EXISTING CURB & GUTTER ========= PROPOSED RIGHT OF WAY LINE ----- VEHICLE TRACKING CONTROL PERMANENT LANDSCAPING PROPOSED EASEMENT STABILIZED STAGING AREA PROPOSED STORM SEWER GEOTEXTILE PROPOSED CURB & GUTTER CONCRETE WASHOUT AREA PROPOSED TOP OF SLOPE

TOTAL INTERIM PHASE SUMMARY OF APPROXIMATE QUANTITIES

EA - REINFORCED ROCK BERM FOR CULVERT PROTECTION EA - CONCRETE WASHOUT AREA CHECK DAMS

TEMPORARY SEDIMENT BASIN

THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SECTION 34, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH P.M. AS MONUMENTED AT THE SOUTHWEST CORNER OF SAID BY A 2-1/2" ALUMINUM CAP STAMPED "LS 11624" AND AT THE SOUTEAST CORNER OF SAID SOUTHWEST QUARTER BY A 2-1/2" ALUMINUM CAP STAMPED "LS 11624", SAID LINE BEARS

SEDIMENT CONTROL LOGS

NORTHING = 411416.273EASTING = 235167.071ELEVATION = 7023.422. THE TOP OF A RED PLASTIC SURVEYORS CAP, ILLEGIBLE, AT

1. THE TOP OF AN ALUMINUM SURVEYORS CAP, STAMPED

"9853", AT THE SOUTHEAST BOUNDARY CORNER OF

THE NORTHWEST BOUNDARY CORNER OF PAWNEE RANCHEROS SUBDIVISION NORTHING = 410095.404

EASTING = 235052.131ELEVATION = 7000.40

BENCHMARK

BARBARICK SUBDIVISION

3. THE TOP OF A RED PLASTIC SURVEYORS CAP, STAMPED "38141", AT THE SOUTHWEST BOUNDARY CORNER OF BARBARICK SUBDISION NORTHING = 411399.962 EASTING = 233849.817ELEVATION = 7030.82

> Know what's below. Call before you dig.

STOCK PILE

COIR MATTING

ARTICULATED CONCRETE

LEGEND

EXISTING CONTOUR

PROPOSED DRAINAGE ARROW

PROPOSED TOE OF SLOPE EXISTING DRAINAGE ARROW

TEMP DRAINAGE CHANNEL

N89°14'14"E, A DISTANCE OF 2,722.69 FEET.

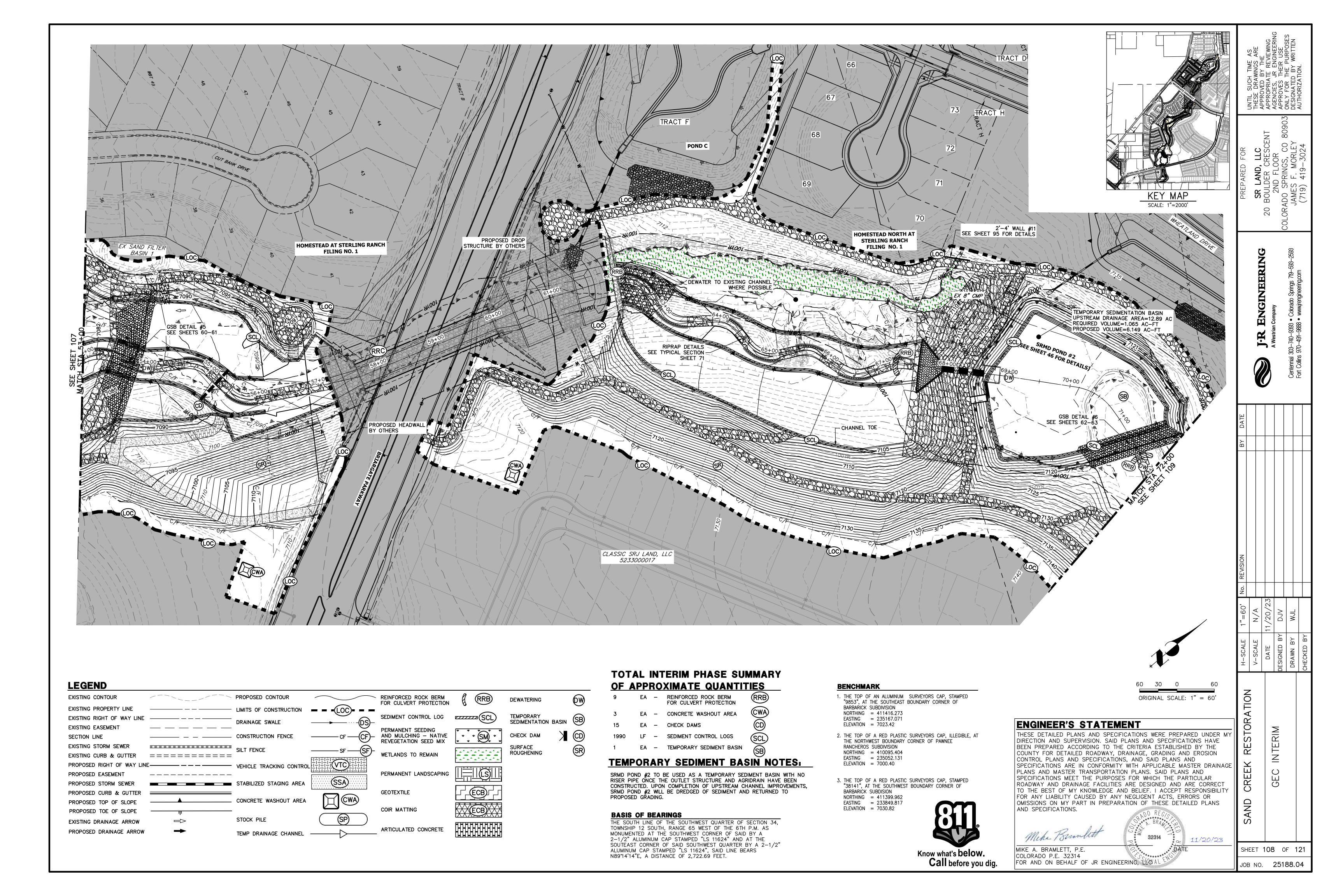
BASIS OF BEARINGS

DEWATERING

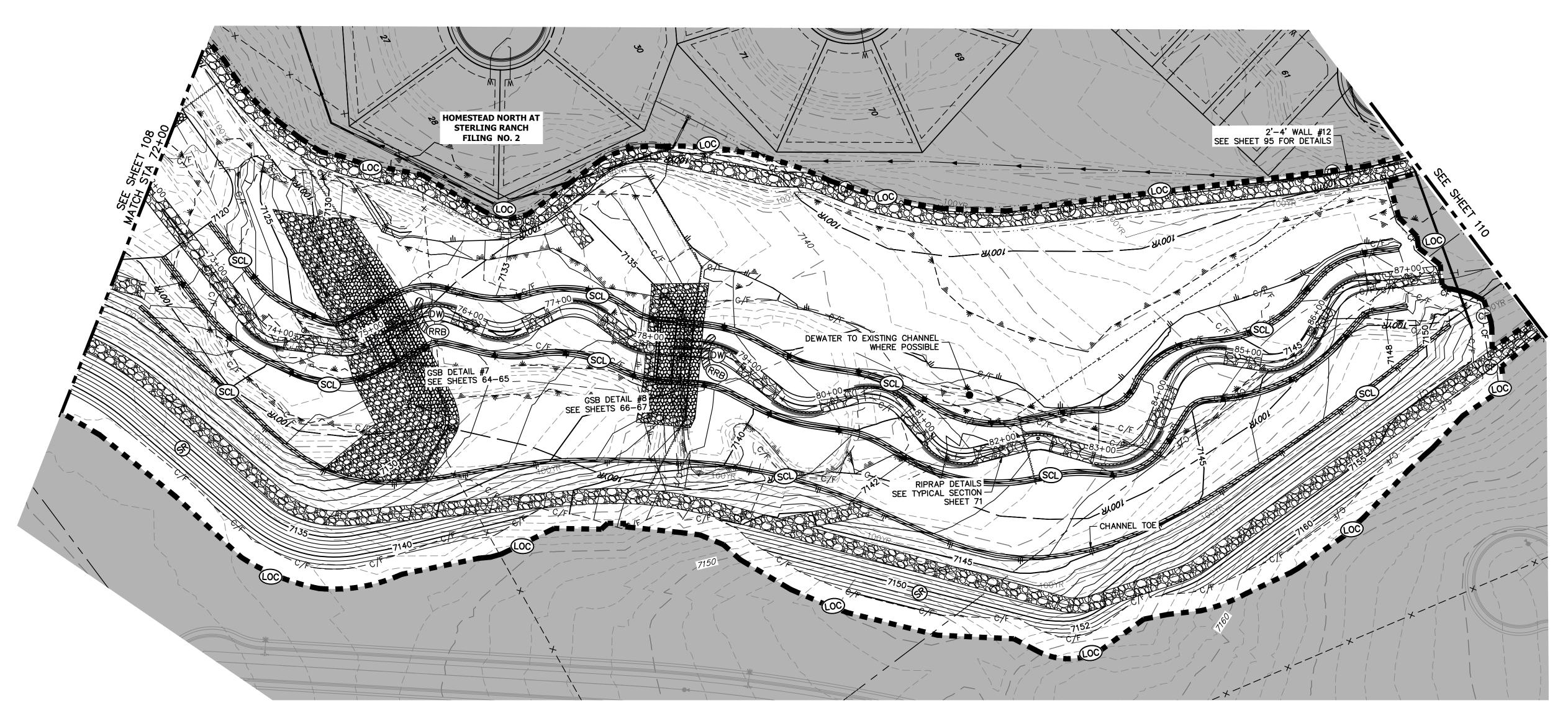
CHECK DAM

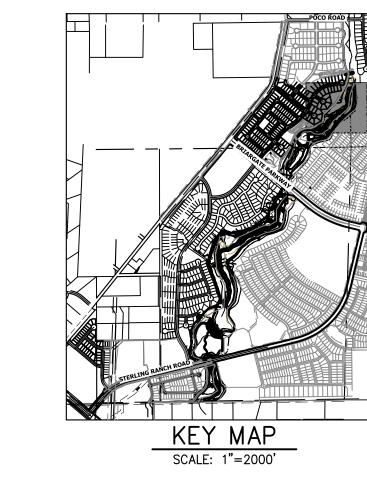
ROUGHENING

TEMPORARY SEDIMENTATION BASIN



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ORIGINAL SCALE: 1" = 60'

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CATIONS WERE PREPARED UNDER MY COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION CONTROL PLANS AND SPECIFICATIONS, AND SAID PLANS AND PLANS AND MASTER TRANSPORTATION PLANS. SAID PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR

Know what's below.

Call before you dig.

MIKE A. BRAMLETT, P.E. COLORADO P.E. 32314 FOR AND ON BEHALF OF JR ENGINEER

ENG	INEER	'S S	TA [*]	TEME
THESE	DETAILED	PLANS	AND	SPECIFIC

DIRECTION AND SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE SPECIFICATIONS ARE IN CONFORMITY WITH APPLICABLE MASTER DRAINAGE ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.

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SHEET 109 OF 121 JOB NO. **25188.04**

TOTAL INTERIM PHASE SUMMARY OF ADDDOVIMATE CHANTITIES

<u>OF</u>	<u>APPI</u>	<u> </u>	<u>XIMATE QUANTI</u>	I IES
9	EA	-	REINFORCED ROCK BERM FOR CULVERT PROTECTION	RRB
3	EA	_	CONCRETE WASHOUT AREA	CWA
15	EA	_	CHECK DAMS	(CD)
1990	LF	_	SEDIMENT CONTROL LOGS	(SCL)
1	EA	_	TEMPORARY SEDIMENT BASIN	(SB)
			BE	NCHMARK

BASIS OF BEARINGS

DEWATERING

CHECK DAM

ROUGHENING

TEMPORARY SEDIMENTATION BASIN SB

REINFORCED ROCK BERM FOR CULVERT PROTECTION

PERMANENT SEEDING
AND MULCHING — NATIVE
REVEGETATION SEED MIX

WETLANDS TO REMAIN

SEDIMENT CONTROL LOG SCL

THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SECTION 34, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH P.M. AS MONUMENTED AT THE SOUTHWEST CORNER OF SAID BY A 2-1/2" ALUMINUM CAP STAMPED "LS 11624" AND AT THE SOUTEAST CORNER OF SAID SOUTHWEST QUARTER BY A 2-1/2" ALUMINUM CAP STAMPED "LS 11624", SAID LINE BEARS N89°14'14"E, A DISTANCE OF 2,722.69 FEET.

2. THE TOP OF A RED PLASTIC SURVEYORS CAP, ILLEGIBLE, AT THE NORTHWEST BOUNDARY CORNER OF PAWNEE RANCHEROS SUBDIVISION NORTHING = 410095.404EASTING = 235052.131

ELEVATION = 7030.82

BARBARICK SUBDIVISION

NORTHING = 411416.273

EASTING = 235167.071

ELEVATION = 7023.42

ELEVATION = 7000.40

1. THE TOP OF AN ALUMINUM SURVEYORS CAP, STAMPED

"9853", AT THE SOUTHEAST BOUNDARY CORNER OF

3. THE TOP OF A RED PLASTIC SURVEYORS CAP, STAMPED "38141", AT THE SOUTHWEST BOUNDARY CORNER OF BARBARICK SUBDISION NORTHING = 411399.962EASTING = 233849.817

PERMANENT LANDSCAPING PROPOSED EASEMENT STABILIZED STAGING AREA PROPOSED STORM SEWER GEOTEXTILE PROPOSED CURB & GUTTER CONCRETE WASHOUT AREA PROPOSED TOP OF SLOPE COIR MATTING PROPOSED TOE OF SLOPE STOCK PILE EXISTING DRAINAGE ARROW ARTICULATED CONCRETE PROPOSED DRAINAGE ARROW TEMP DRAINAGE CHANNEL

SILT FENCE

=========

PROPOSED CONTOUR

CONSTRUCTION FENCE

LIMITS OF CONSTRUCTION

LEGEND

EXISTING CONTOUR

EXISTING EASEMENT

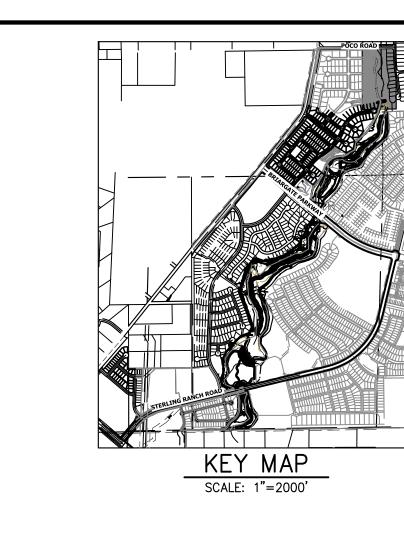
SECTION LINE

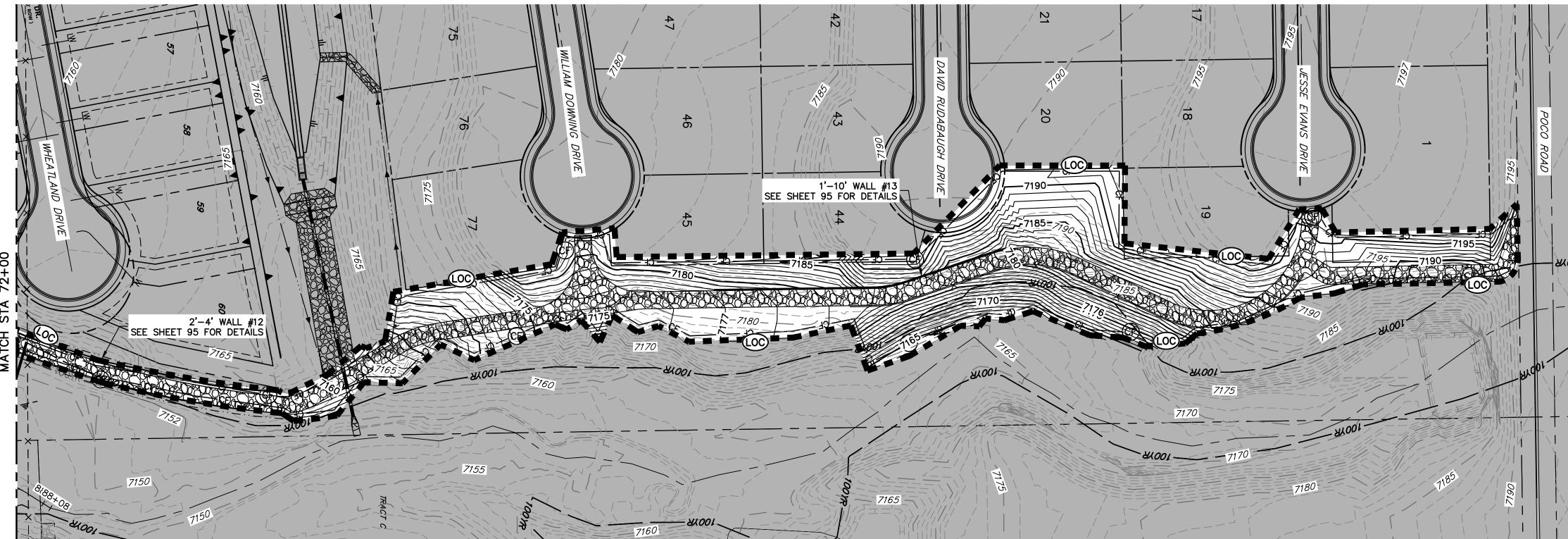
EXISTING PROPERTY LINE

EXISTING STORM SEWER

EXISTING CURB & GUTTER

EXISTING RIGHT OF WAY LINE





TOTAL INTERIM PHASE SUMMARY OF APPROXIMATE QUANTITIES

EA - REINFORCED ROCK BERM FOR CULVERT PROTECTION EA - CONCRETE WASHOUT AREA EA - CHECK DAMS SEDIMENT CONTROL LOGS EA - TEMPORARY SEDIMENT BASIN

1. THE TOP OF AN ALUMINUM SURVEYORS CAP, STAMPED

"9853", AT THE SOUTHEAST BOUNDARY CORNER OF

2. THE TOP OF A RED PLASTIC SURVEYORS CAP, ILLEGIBLE, AT

THE NORTHWEST BOUNDARY CORNER OF PAWNEE

BARBARICK SUBDIVISION

NORTHING = 411416.273

EASTING = 235167.071

RANCHEROS SUBDIVISION

NORTHING = 410095.404

EASTING = 235052.131

ELEVATION = 7030.82

ELEVATION = 7023.42

LEGEND							
EXISTING CONTOUR		PROPOSED CONTOUR		REINFORCED ROCK BERM FOR CULVERT PROTECTION	RRB	DEWATERING	(DW)
EXISTING PROPERTY LINE		LIMITS OF CONSTRUCTION	(LOC)	FOR COLVERT PROTECTION	0 0		
EXISTING RIGHT OF WAY LINE		DRAINAGE SWALE		SEDIMENT CONTROL LOG	SCL)	TEMPORARY SEDIMENTATION BASIN	(SB)
EXISTING EASEMENT		DIVALITACE SWALL		PERMANENT SEEDING	· · · · · ·	· -	
SECTION LINE		CONSTRUCTION FENCE	——————————————————————————————————————	AND MULCHING — NATIVE REVEGETATION SEED MIX	, * , * (SM), * ,	CHECK DAM	(CD)
EXISTING STORM SEWER		SILT FENCE		KEVEGETATION GEED WITH		SURFACE	(SR)
EXISTING CURB & GUTTER	=========	SIET TENOE		WETLANDS TO REMAIN		ROUGHENING	
PROPOSED RIGHT OF WAY LIN	IE	VEHICLE TRACKING CONTRO)[- - - - - - - - - - - - -		3. 3. 3. 3. 3.		
PROPOSED EASEMENT				PERMANENT LANDSCAPING			
PROPOSED STORM SEWER		STABILIZED STAGING AREA	(SSA)				
PROPOSED CURB & GUTTER				GEOTEXTILE	L'LECB'L'		
PROPOSED TOP OF SLOPE		CONCRETE WASHOUT AREA	(CWA)			BASIS OF B	
PROPOSED TOE OF SLOPE				COIR MATTING	KX FCBXXX	THE SOUTH LINI TOWNSHIP 12 S	
	"' 	STOCK PILE	(SP)			MONUMENTED A	AT THE SO
EXISTING DRAINAGE ARROW		STOOK TILL		ADTIQUI ATED CONODETE		2-1/2" ALUMIN SOUTEAST COR	
PROPOSED DRAINAGE ARROW	-	TEMP DRAINAGE CHANNEL		ARTICULATED CONCRETE		ALUMINUM CAP	STAMPE
			•			N89°14'14"E, A	DISTANCE

BASIS OF BEARINGS

THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SECTION 34, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH P.M. AS MONUMENTED AT THE SOUTHWEST CORNER OF SAID BY A 2-1/2" ALUMINUM CAP STAMPED "LS 11624" AND AT THE SOUTEAST CORNER OF SAID SOUTHWEST QUARTER BY A 2-1/2" ALUMINUM CAP STAMPED "LS 11624", SAID LINE BEARS N89°14'14"E, A DISTANCE OF 2,722.69 FEET.

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Know what's below. Call before you dig.

CONTROL PLANS AND SPECIFICATIONS, AND SAID PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.

ENGINEER'S STATEMENT

11/20/23 MIKE A. BRAMLETT, P.E. COLORADO P.E. 32314 FOR AND ON BEHALF OF JR ENGINEERING

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY

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BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE

COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION

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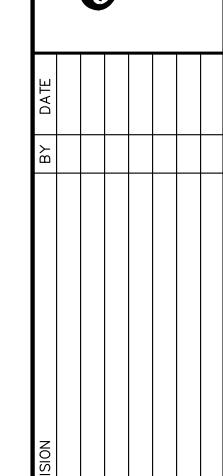
ORIGINAL SCALE: 1" = 60'

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,	COLORADO SPRINGS, CO
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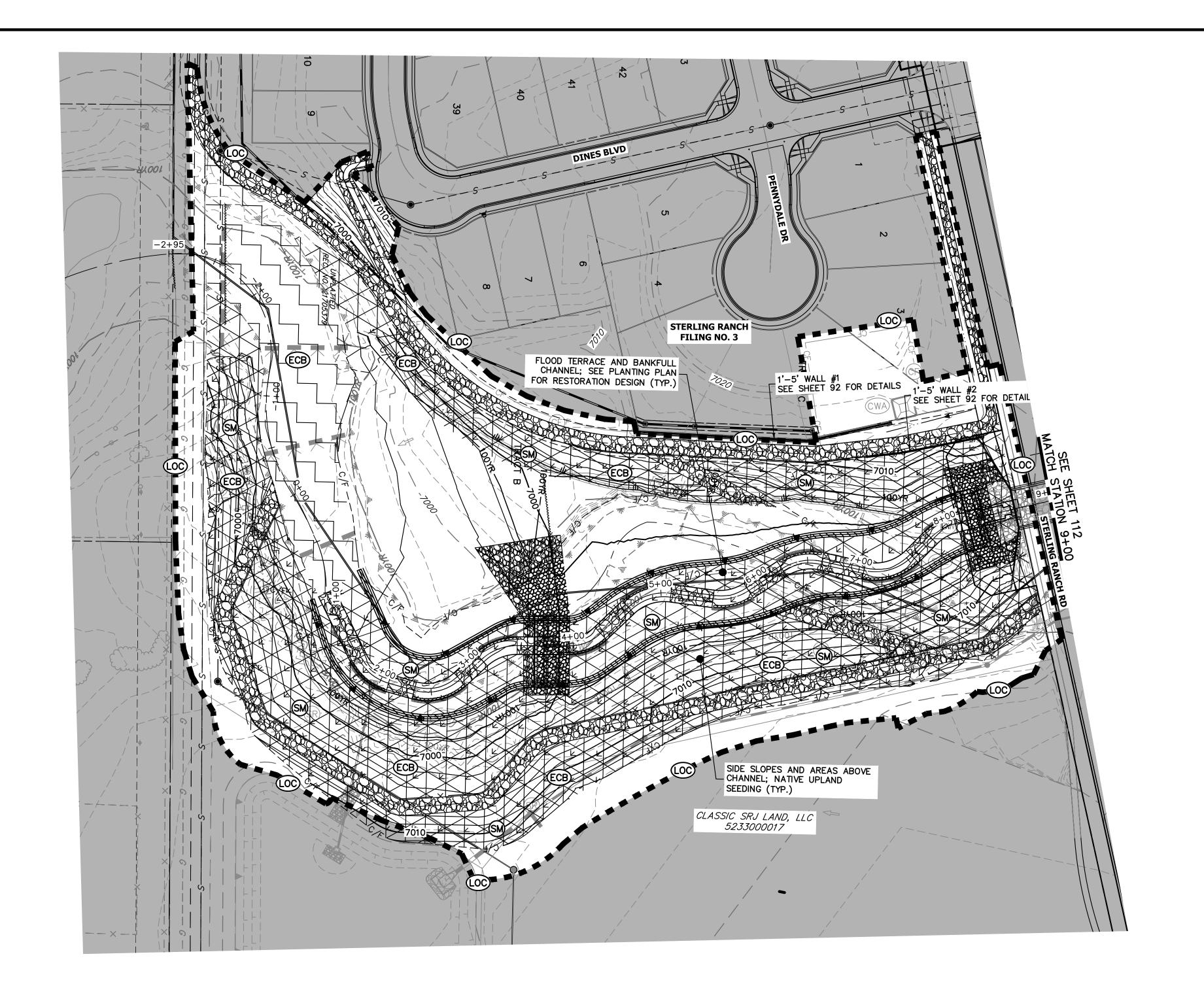
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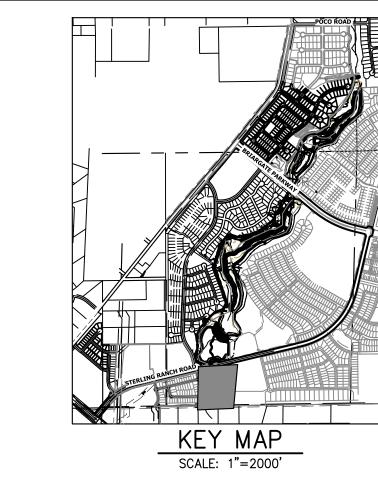


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HEET 110 OF 121 JOB NO. **25188.04**





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TOTAL FINAL PHASE SUMMARY OF APPROXIMATE QUANTITIES

48.65 2.55 1.93 AC - SEEDING & MULCHING (UPLAND) AC - SEEDING & MULCHING (WETLAND) AC - GEOTEXTILE

32.58 AC - COIR MATTING

TEMPORARY
SEDIMENTATION BASIN CHECK DAM ROUGHENING

DEWATERING

REINFORCED ROCK BERM FOR CULVERT PROTECTION

PERMANENT SEEDING
AND MULCHING — NATIVE
REVEGETATION SEED MIX

WETLANDS TO REMAIN

GEOTEXTILE

COIR MATTING

PERMANENT LANDSCAPING

ARTICULATED CONCRETE

SEDIMENT CONTROL LOG SCL

PROPOSED CONTOUR

CONSTRUCTION FENCE

STABILIZED STAGING AREA

SILT FENCE

=========

LIMITS OF CONSTRUCTION

CONCRETE WASHOUT AREA

TEMP DRAINAGE CHANNEL

STOCK PILE

BASIS OF BEARINGS

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3. THE TOP OF A RED PLASTIC SURVEYORS CAP, STAMPED "38141", AT THE SOUTHWEST BOUNDARY CORNER OF BARBARICK SUBDISION NORTHING = 411399.962EASTING = 233849.817



ENGINEER'S STATEMENT

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION CONTROL PLANS AND SPECIFICATIONS, AND SAID PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS

AND SPECIFICATIONS. MIKE A. BRAMLETT, P.E. COLORADO P.E. 32314

11/20/23 FOR AND ON BEHALF OF JR ENGINEERING ON AL

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ΈT	111	OF	121

TION

LEGEND

EXISTING CONTOUR

EXISTING EASEMENT

EXISTING STORM SEWER

PROPOSED EASEMENT

PROPOSED STORM SEWER

PROPOSED CURB & GUTTER

PROPOSED TOP OF SLOPE

PROPOSED TOE OF SLOPE

EXISTING DRAINAGE ARROW

PROPOSED DRAINAGE ARROW

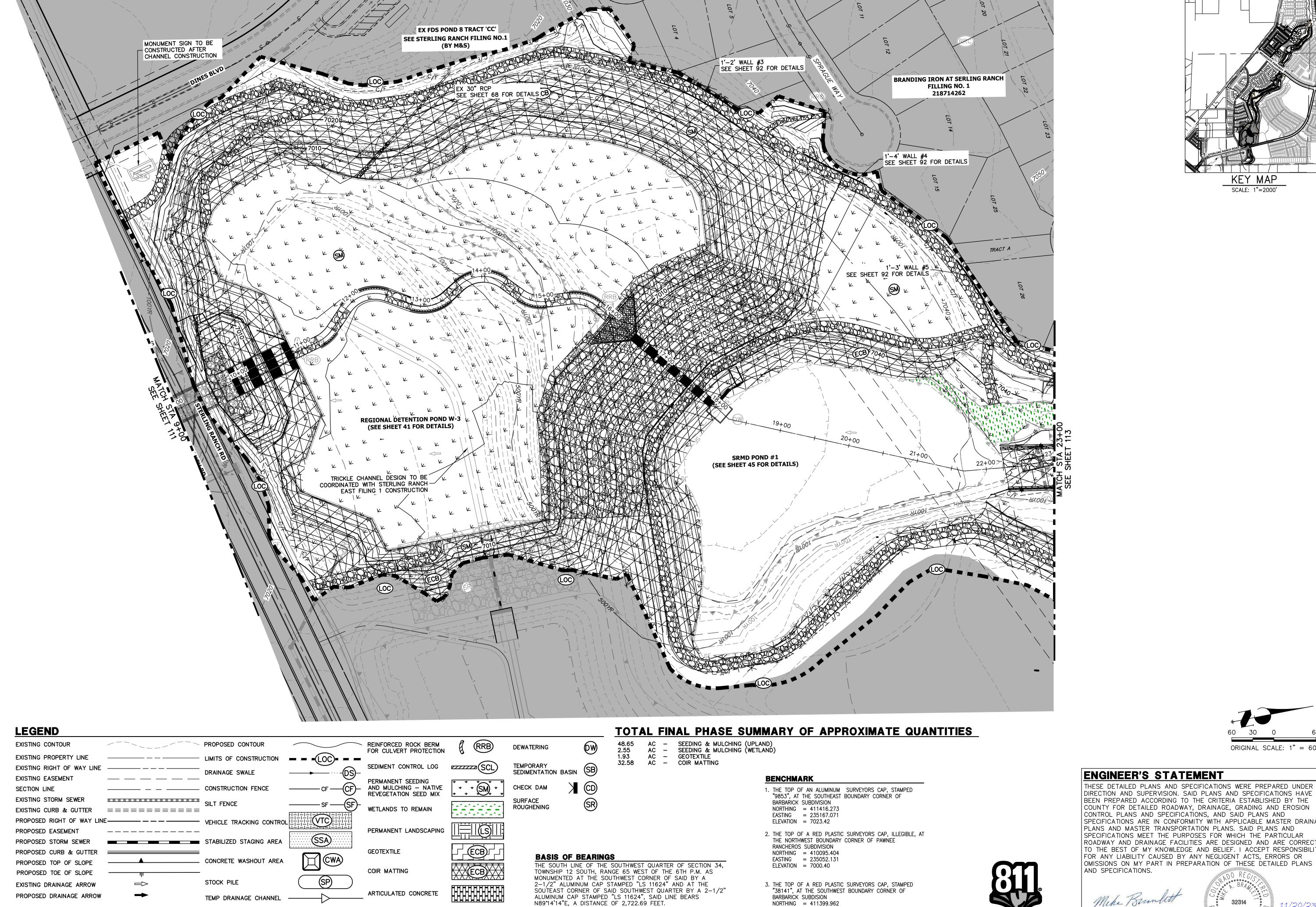
EXISTING CURB & GUTTER

SECTION LINE

EXISTING PROPERTY LINE

EXISTING RIGHT OF WAY LINE

JOB NO. **25188.04**



BARBARICK SUBDISION

ELEVATION = 7030.82

NORTHING = 411399.962EASTING = 233849.817

PROPOSED DRAINAGE ARROW

TEMP DRAINAGE CHANNEL

ORIGINAL SCALE: 1" = 60

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MIKE A. BRAMLETT, P.E. COLORADO P.E. 32314

Know what's below.

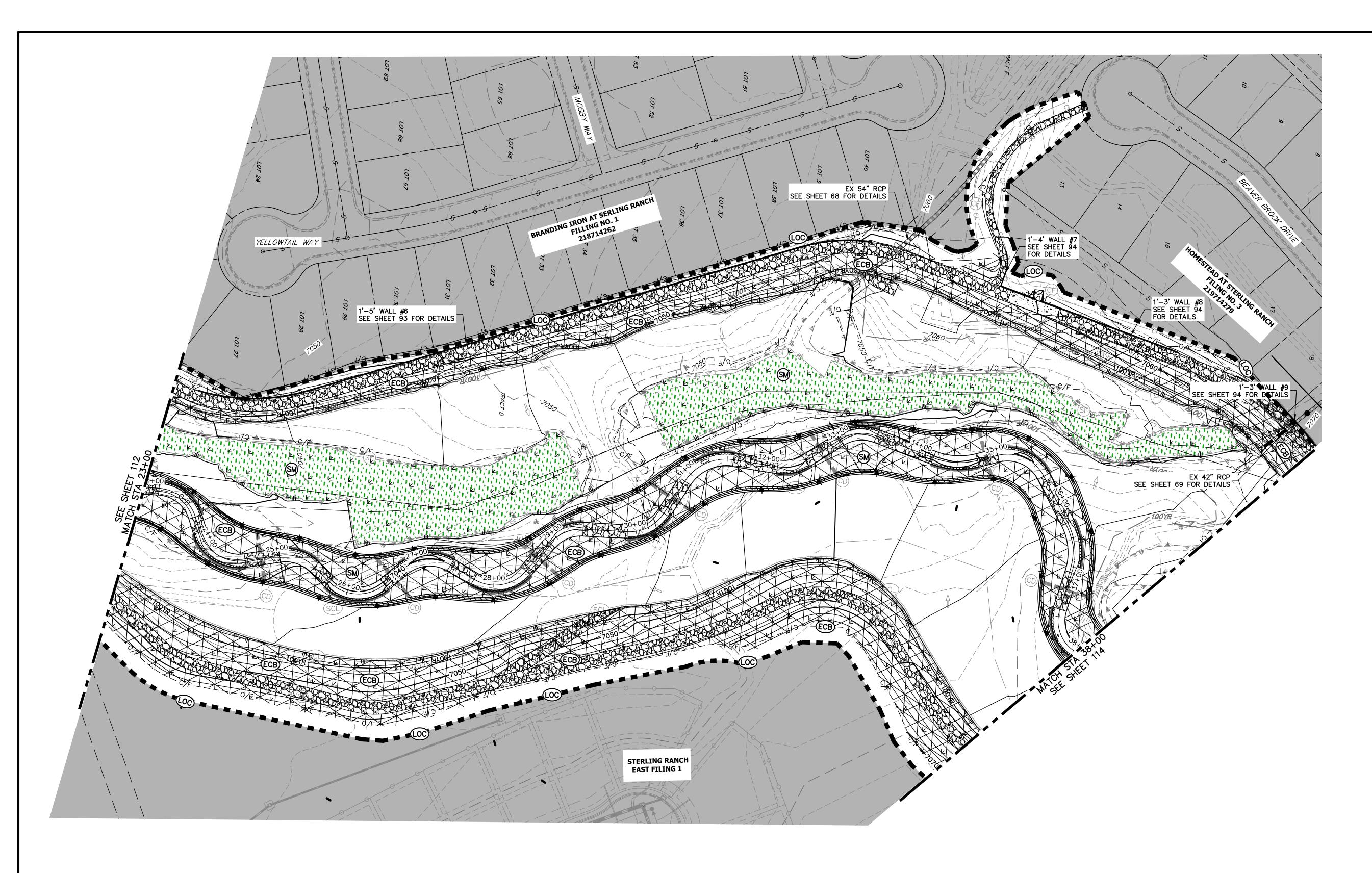
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FOR AND ON BEHALF OF JR ENGINEERING JOHAN

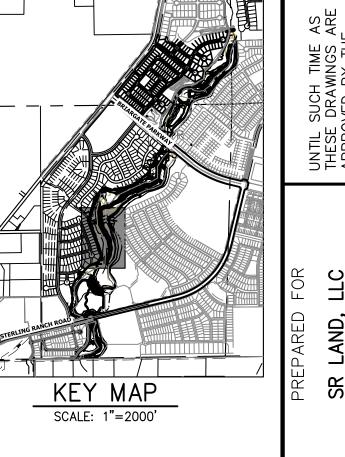
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SHEET 112 OF 121 JOB NO. **25188.04**

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60	→ 30	0		60
ORIO	GINAL	SCALE:	1" =	60'

TOTAL FINAL PHASE SUMMARY OF APPROXIMATE QUANTITIES

AC - SEEDING & MULCHING (UPLAND) AC - SEEDING & MULCHING (WETLAND) AC - GEOTEXTILE 2.55 1.93 32.58 AC - COIR MATTING

BASIS OF BEARINGS

DEWATERING

CHECK DAM

ROUGHENING

TEMPORARY SEDIMENTATION BASIN

REINFORCED ROCK BERM FOR CULVERT PROTECTION

PERMANENT SEEDING AND MULCHING — NATIVE REVEGETATION SEED MIX

WETLANDS TO REMAIN

GEOTEXTILE

COIR MATTING

PERMANENT LANDSCAPING

ARTICULATED CONCRETE

SEDIMENT CONTROL LOG

PROPOSED CONTOUR

CONSTRUCTION FENCE

SILT FENCE

STABILIZED STAGING AREA

=========

LIMITS OF CONSTRUCTION

CONCRETE WASHOUT AREA

TEMP DRAINAGE CHANNEL

STOCK PILE

THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SECTION 34, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH P.M. AS MONUMENTED AT THE SOUTHWEST CORNER OF SAID BY A 2-1/2" ALUMINUM CAP STAMPED "LS 11624" AND AT THE SOUTEAST CORNER OF SAID SOUTHWEST QUARTER BY A 2-1/2" ALUMINUM CAP STAMPED "LS 11624", SAID LINE BEARS N89°14'14"E, A DISTANCE OF 2,722.69 FEET.

BENCHMARK

1. THE TOP OF AN ALUMINUM SURVEYORS CAP, STAMPED "9853", AT THE SOUTHEAST BOUNDARY CORNER OF BARBARICK SUBDIVISION

NORTHING = 411416.273EASTING = 235167.071ELEVATION = 7023.42

2. THE TOP OF A RED PLASTIC SURVEYORS CAP, ILLEGIBLE, AT THE NORTHWEST BOUNDARY CORNER OF PAWNEE RANCHEROS SUBDIVISION NORTHING = 410095.404

EASTING = 235052.131ELEVATION = 7000.40

ELEVATION = 7030.82

3. THE TOP OF A RED PLASTIC SURVEYORS CAP, STAMPED "38141", AT THE SOUTHWEST BOUNDARY CORNER OF BARBARICK SUBDISION NORTHING = 411399.962EASTING = 233849.817



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AND SPECIFICATIONS. MIKE A. BRAMLETT, P.E.

Mike Brunlett 32314	MARED A	11/2
MIKE A. BRAMLETT, P.E. COLORADO P.E. 32314	DATE	
FOR AND ON BEHALF OF JR ENGINEERING	IIIII	

SAND CREEK RE	GEC FIN	
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SHEET 113 OF 121 JOB NO. **25188.04**

LEGEND

EXISTING CONTOUR

EXISTING EASEMENT

EXISTING STORM SEWER

PROPOSED EASEMENT

PROPOSED STORM SEWER

PROPOSED CURB & GUTTER

PROPOSED TOP OF SLOPE

PROPOSED TOE OF SLOPE

EXISTING DRAINAGE ARROW

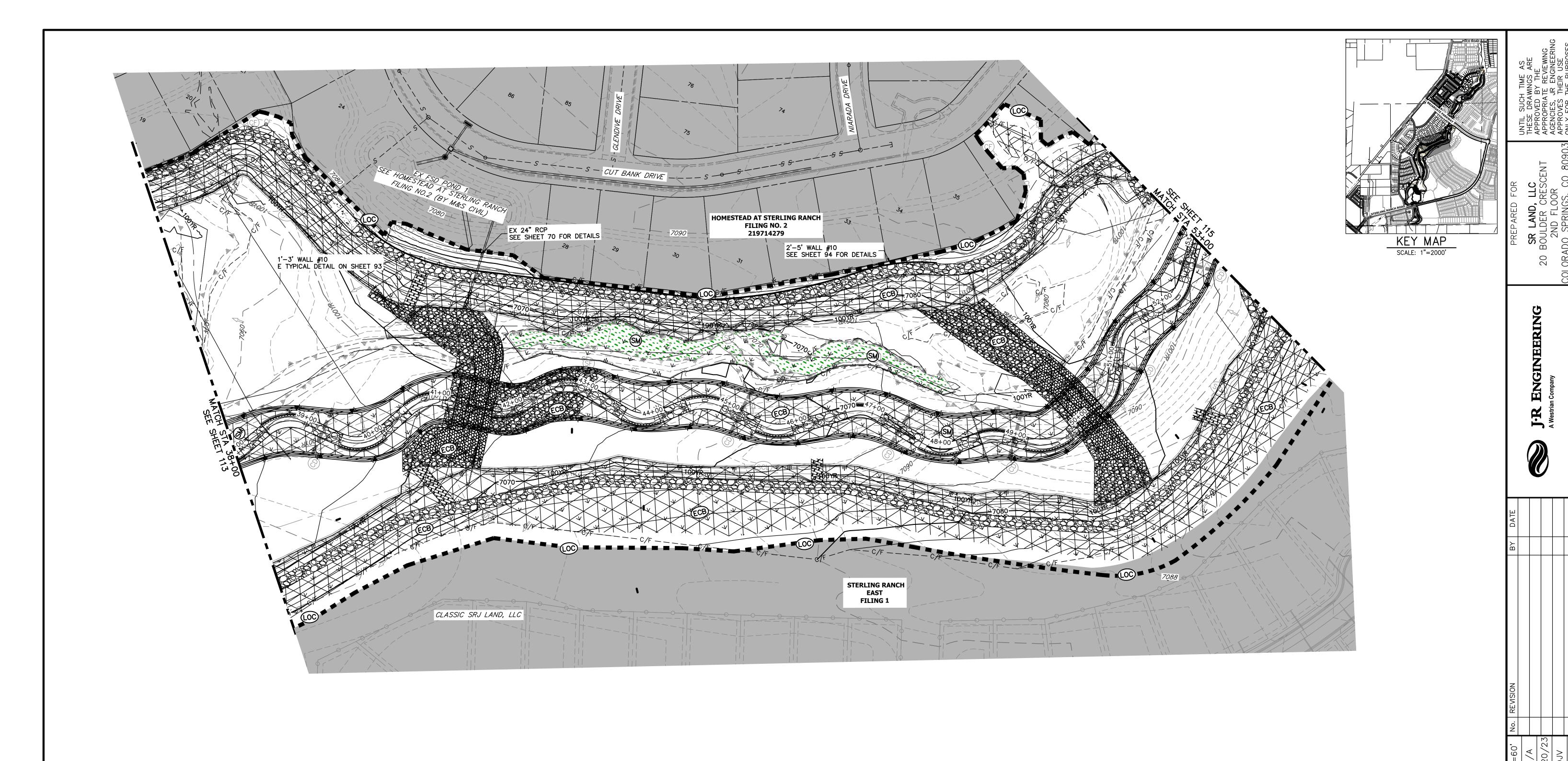
PROPOSED DRAINAGE ARROW

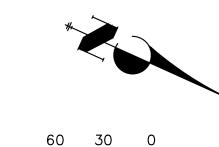
EXISTING CURB & GUTTER

SECTION LINE

EXISTING PROPERTY LINE

EXISTING RIGHT OF WAY LINE





ORIGINAL SCALE: 1" = 60'



48.65 2.55 AC - SEEDING & MULCHING (UPLAND) AC - SEEDING & MULCHING (WETLAND) 1.93 AC - GEOTEXTILE

32.58 AC - COIR MATTING

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REINFORCED ROCK BERM FOR CULVERT PROTECTION

PERMANENT SEEDING
AND MULCHING — NATIVE
REVEGETATION SEED MIX

WETLANDS TO REMAIN

GEOTEXTILE

COIR MATTING

PERMANENT LANDSCAPING

ARTICULATED CONCRETE

SEDIMENT CONTROL LOG SCL

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SEDIMENTATION BASIN SB

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PROPOSED CONTOUR

CONSTRUCTION FENCE

STABILIZED STAGING AREA

SILT FENCE

=========

LIMITS OF CONSTRUCTION

CONCRETE WASHOUT AREA

TEMP DRAINAGE CHANNEL

STOCK PILE

BENCHMARK

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- NORTHING = 410095.404EASTING = 235052.131ELEVATION = 7000.40

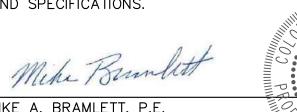
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3. THE TOP OF A RED PLASTIC SURVEYORS CAP, STAMPED "38141", AT THE SOUTHWEST BOUNDARY CORNER OF BARBARICK SUBDISION NORTHING = 411399.962EASTING = 233849.817



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MIKE A. BRAMLETT, P.E. COLORADO P.E. 32314 FOR AND ON BEHALF OF JR ENGINEERING ON AL

UNDER MY S HAVE Y THE ROSION R DRAINAGE D JLAR CORRECT ONSIBILITY OR PLANS	SAND CREEK RESTC	GEC FINAL	
	SHEET 1	114 OF '	121

LEGEND

EXISTING CONTOUR

EXISTING EASEMENT

EXISTING STORM SEWER

PROPOSED EASEMENT

EXISTING CURB & GUTTER

PROPOSED STORM SEWER

PROPOSED CURB & GUTTER

PROPOSED TOP OF SLOPE

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EXISTING DRAINAGE ARROW

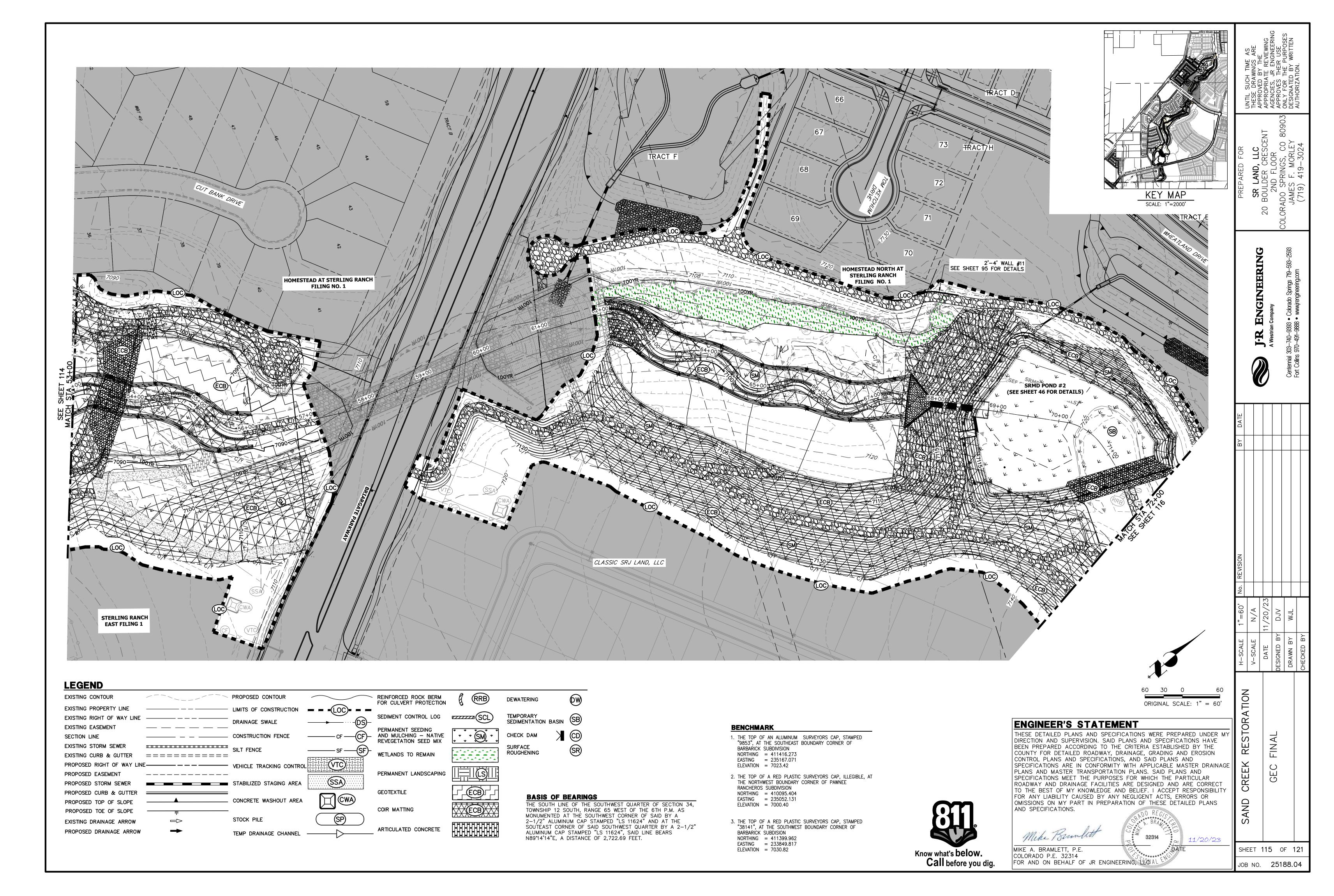
PROPOSED DRAINAGE ARROW

SECTION LINE

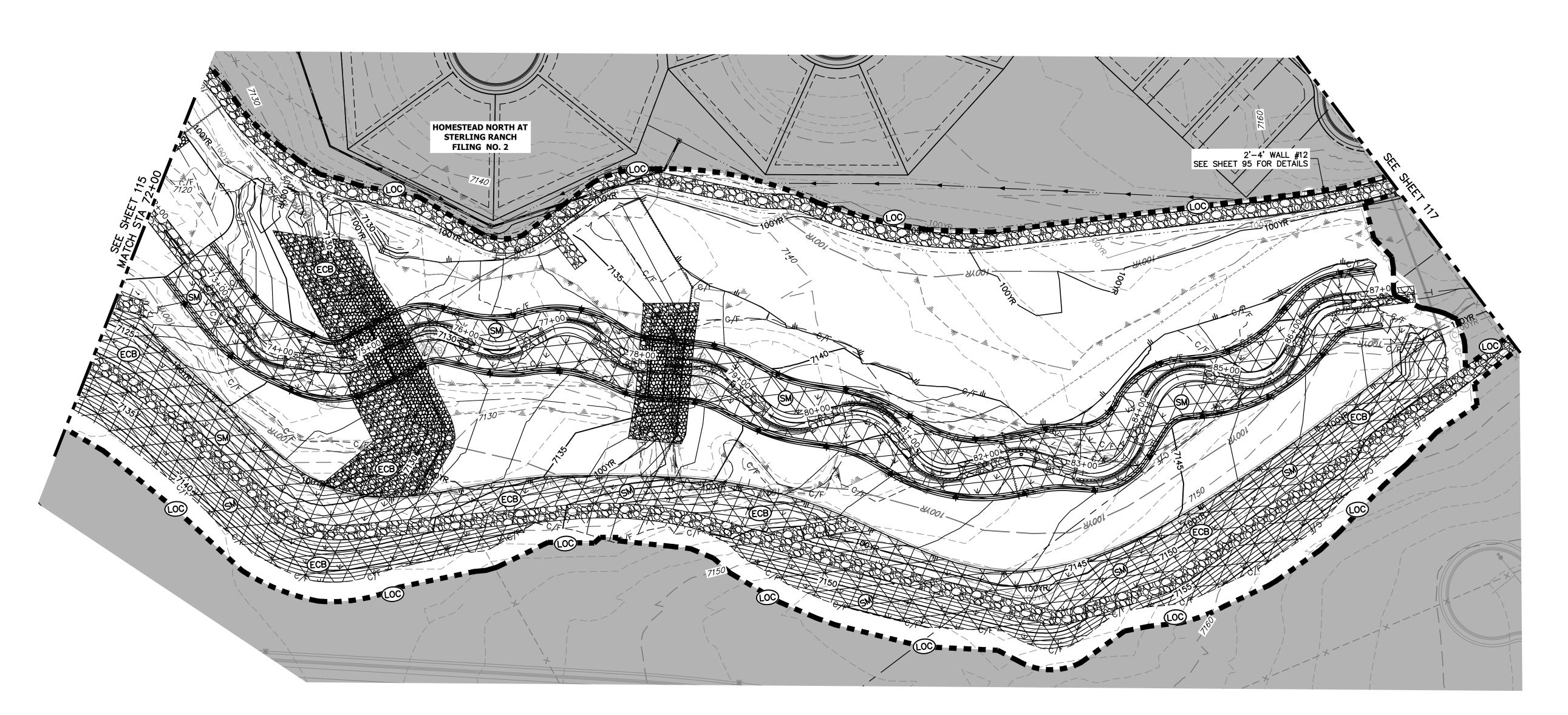
EXISTING PROPERTY LINE

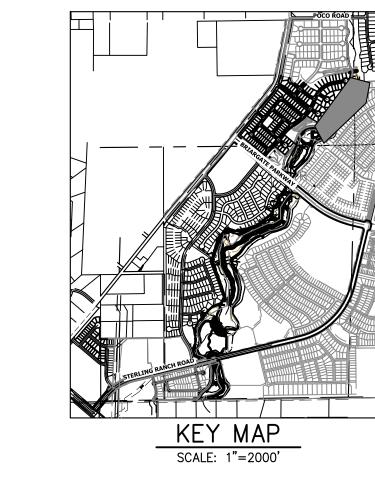
EXISTING RIGHT OF WAY LINE

JOB NO. **25188.04**



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ORIGINAL SCALE: 1" = 60"

1. THE TOP OF AN ALUMINUM SURVEYORS CAP, STAMPED "9853", AT THE SOUTHEAST BOUNDARY CORNER OF

2. THE TOP OF A RED PLASTIC SURVEYORS CAP, ILLEGIBLE, AT

ELEVATION = 7000.40

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MIKE A. BRAMLETT, P.E. COLORADO P.E. 32314

FOR AND ON BEHALF OF JR ENGINEERING ON AL

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DATE	SHEET 1	116 OF	12

JOB NO. **25188.04**

LEGEND

PROPOSED DRAINAGE ARROW

REINFORCED ROCK BERM FOR CULVERT PROTECTION PROPOSED CONTOUR EXISTING CONTOUR EXISTING PROPERTY LINE LIMITS OF CONSTRUCTION SEDIMENT CONTROL LOG SCL EXISTING RIGHT OF WAY LINE EXISTING EASEMENT PERMANENT SEEDING
AND MULCHING — NATIVE
REVEGETATION SEED MIX SECTION LINE CONSTRUCTION FENCE SILT FENCE EXISTING STORM SEWER WETLANDS TO REMAIN PERMANENT LANDSCAPING PROPOSED EASEMENT STABILIZED STAGING AREA PROPOSED STORM SEWER GEOTEXTILE PROPOSED CURB & GUTTER CONCRETE WASHOUT AREA PROPOSED TOP OF SLOPE COIR MATTING PROPOSED TOE OF SLOPE STOCK PILE EXISTING DRAINAGE ARROW ARTICULATED CONCRETE

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TOTAL FINAL PHASE SUMMARY OF APPROXIMATE QUANTITIES 48.65 AC - SEEDING & MULCHING (UPLAND) 2.55 AC - SEEDING & MULCHING (WETLAND) 1.93 AC - GEOTEXTILE 32.58 AC - COIR MATTING

BENCHMARK

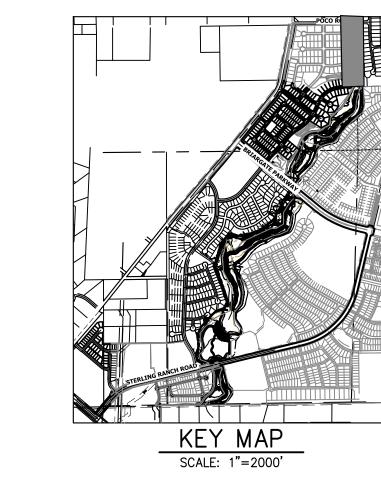
BARBARICK SUBDIVISION NORTHING = 411416.273EASTING = 235167.071ELEVATION = 7023.42

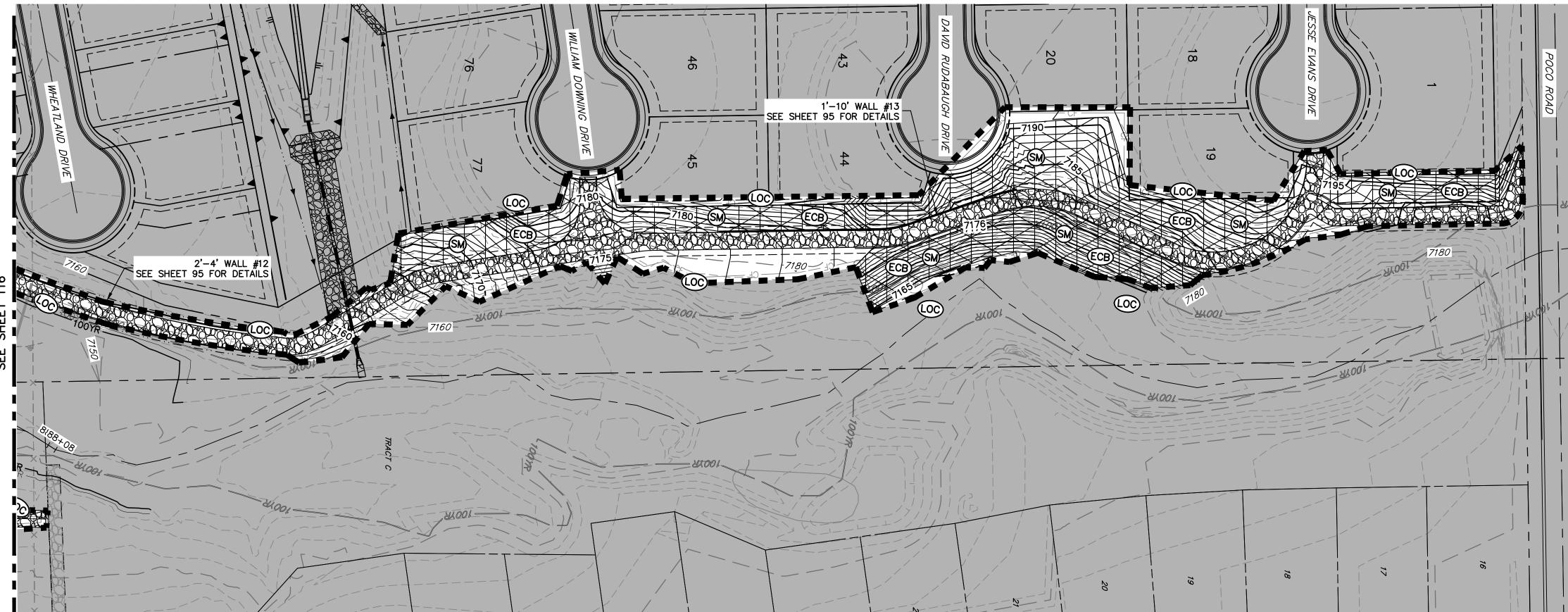
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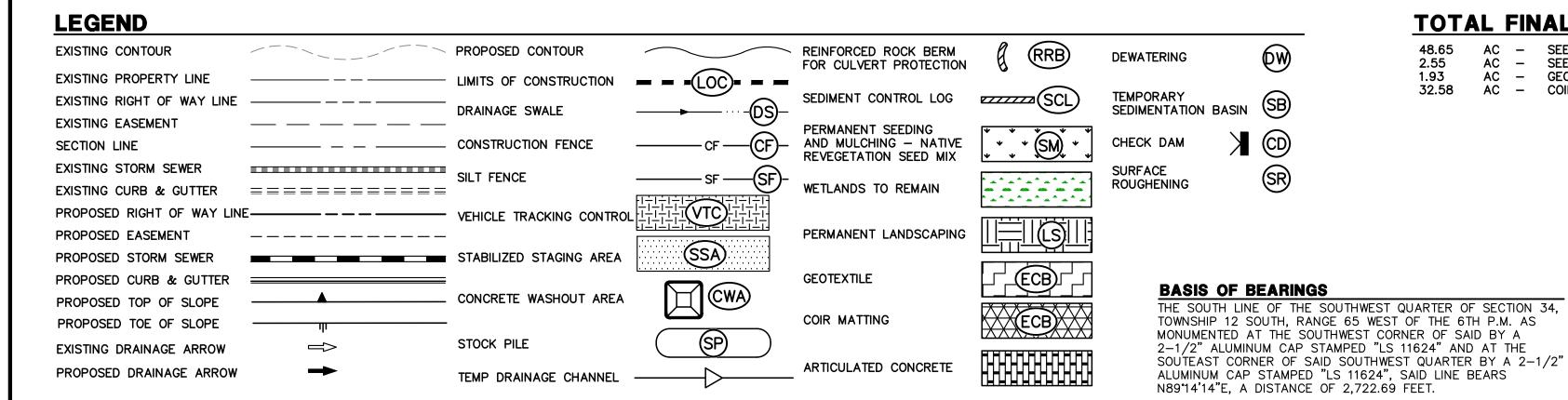
Know what's below. Call before you dig.







ORIGINAL SCALE: 1" = 60"



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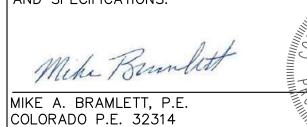
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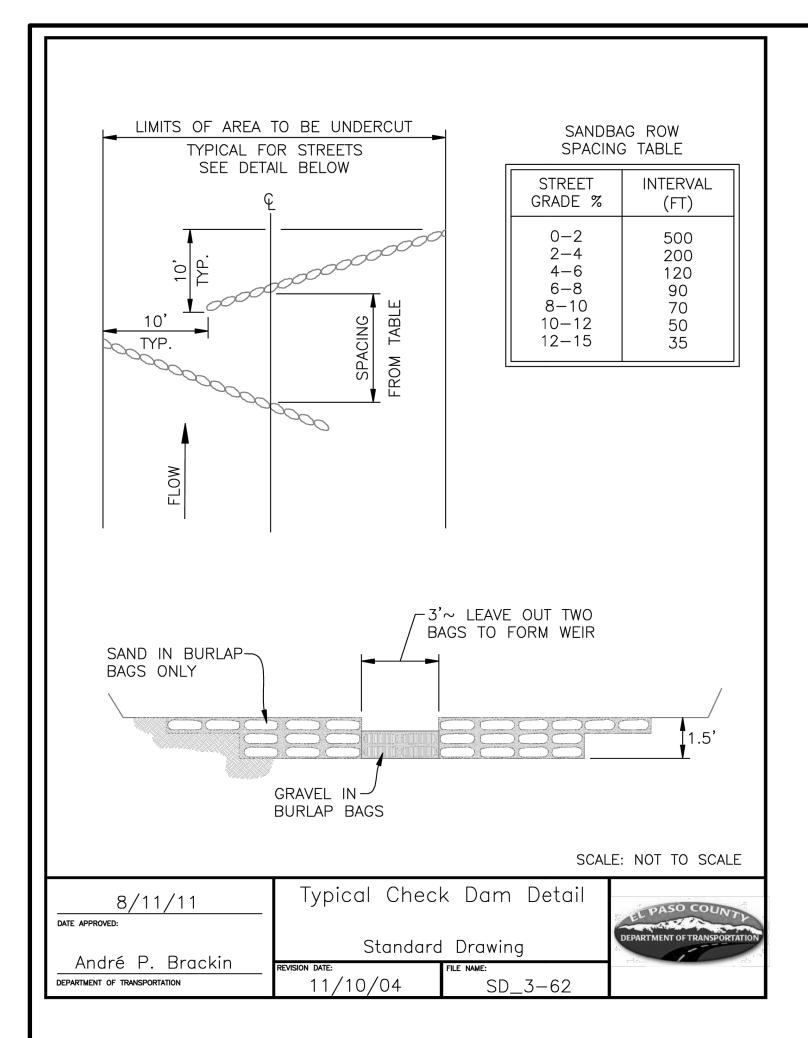


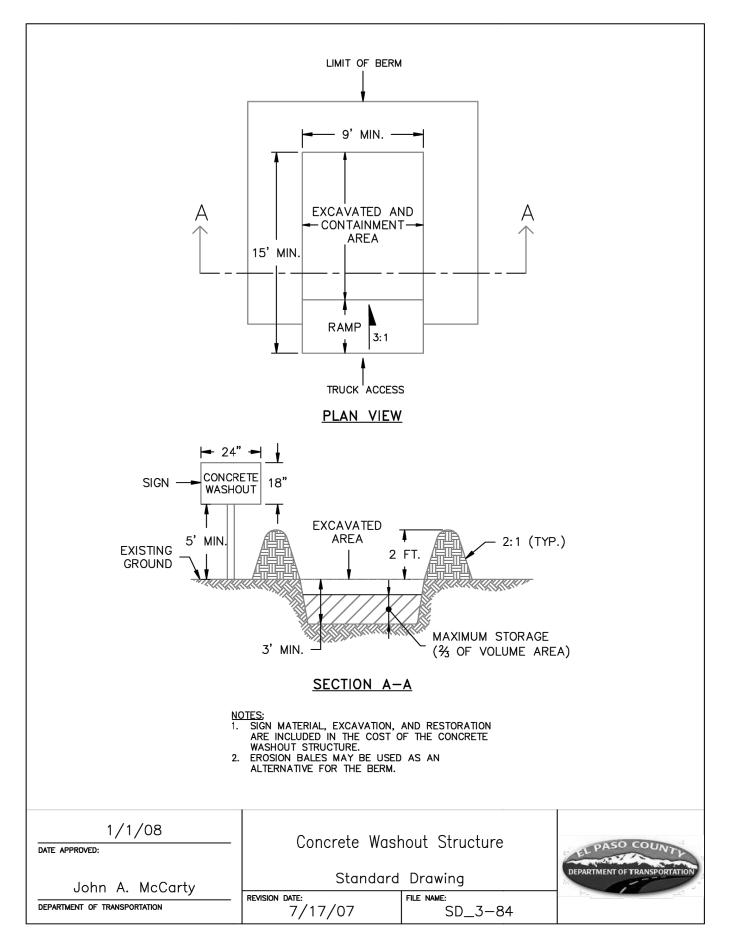
11/20/23 FOR AND ON BEHALF OF JR ENGINEERING ON AL

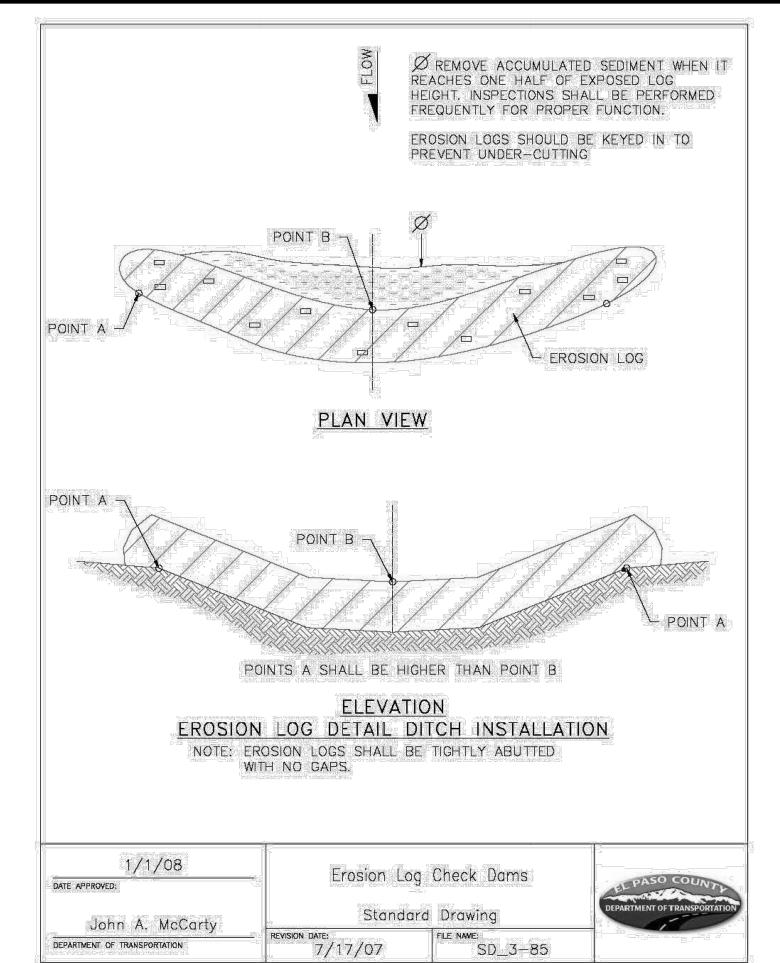
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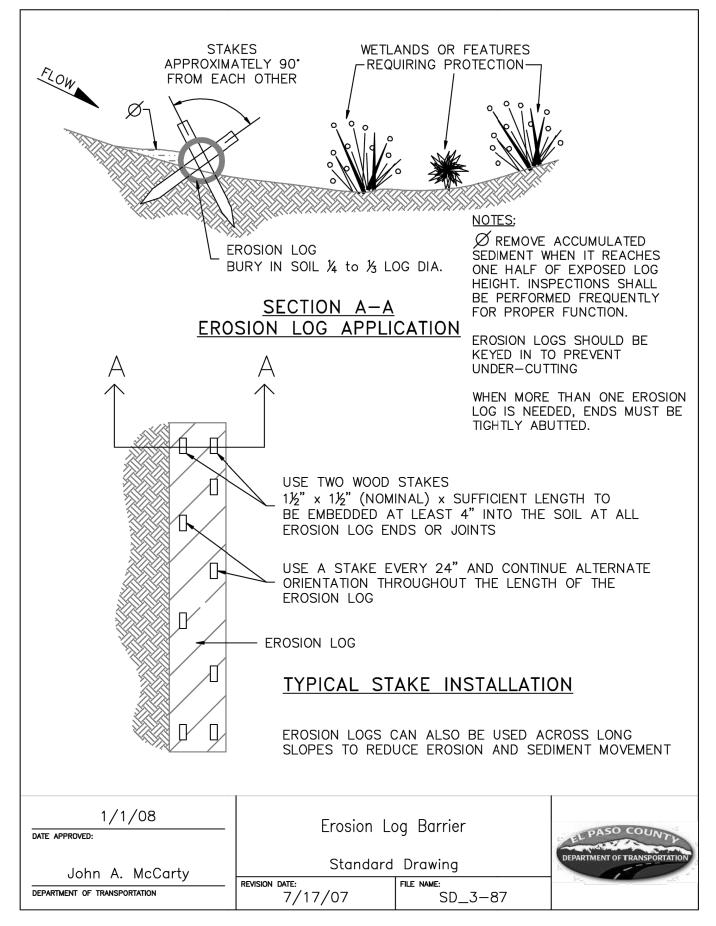
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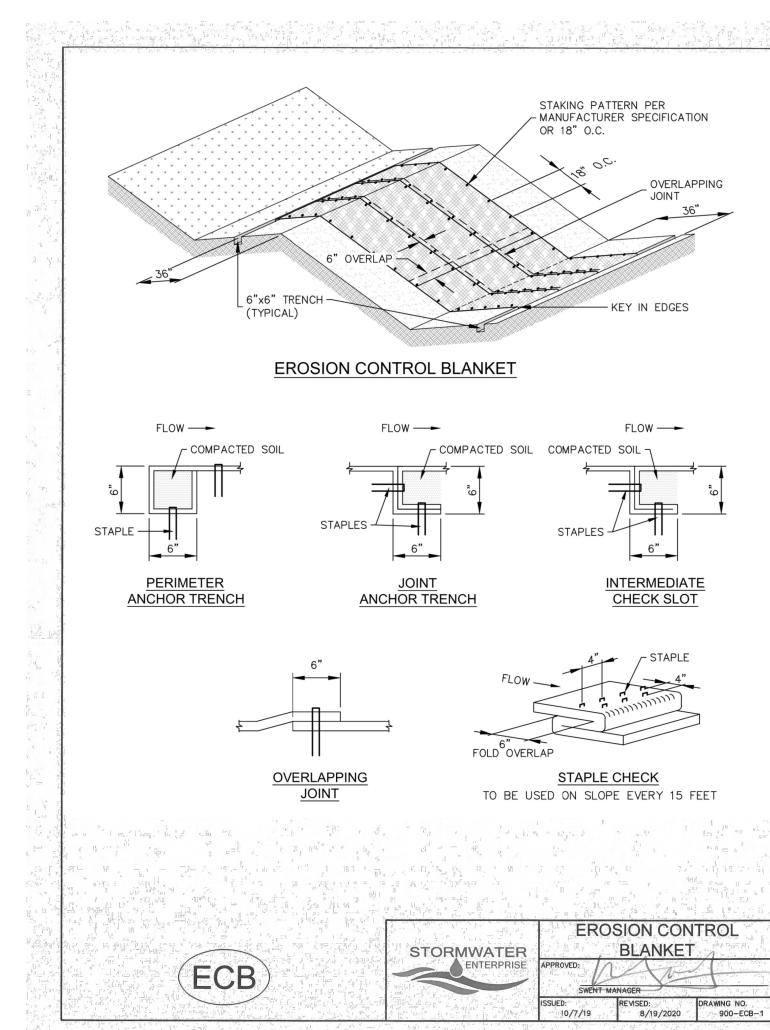
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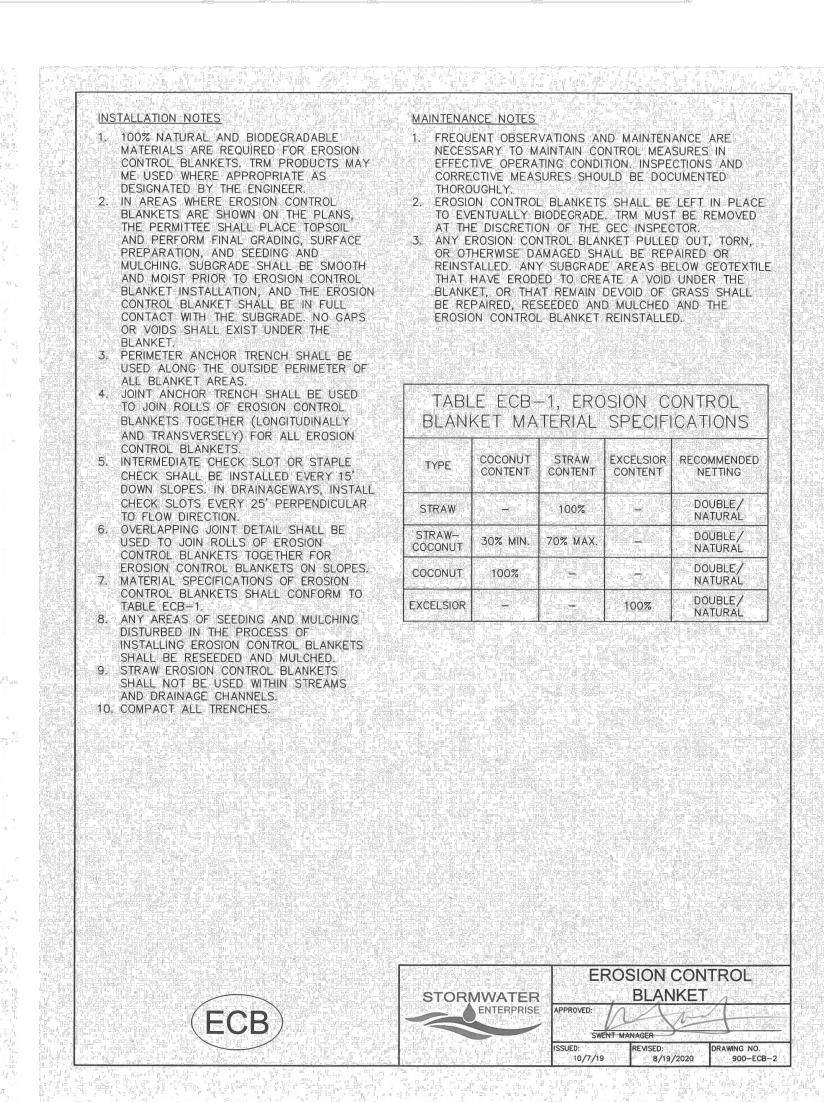










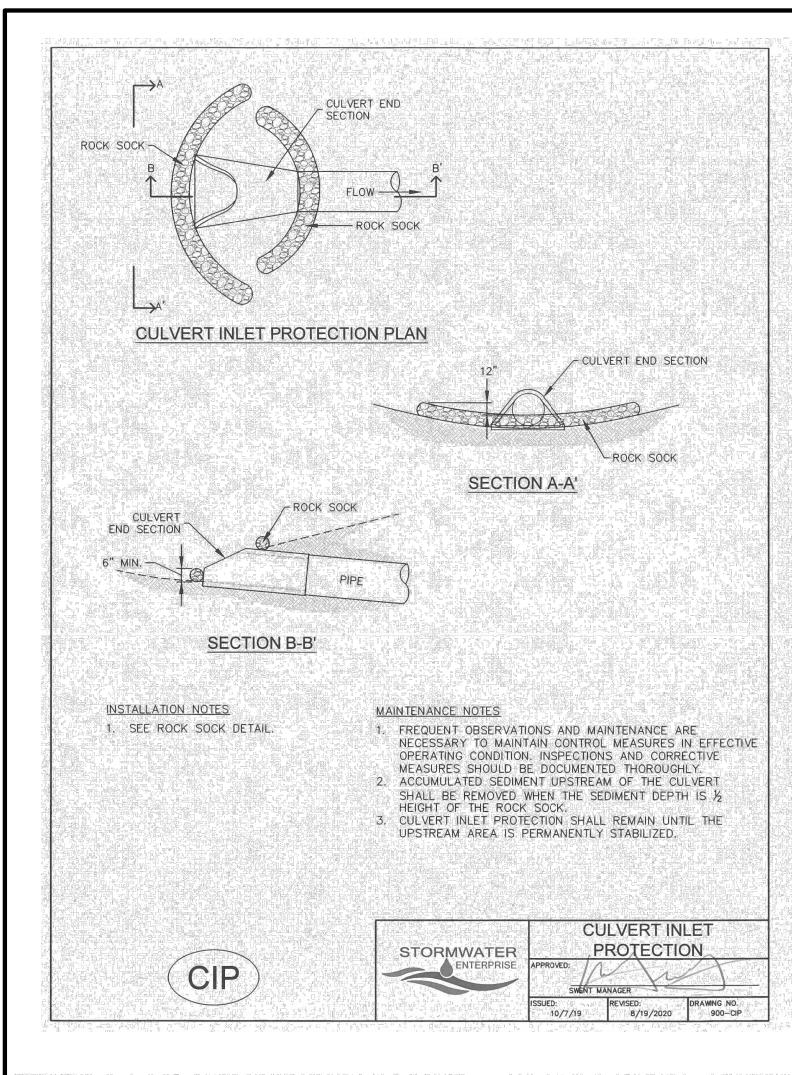


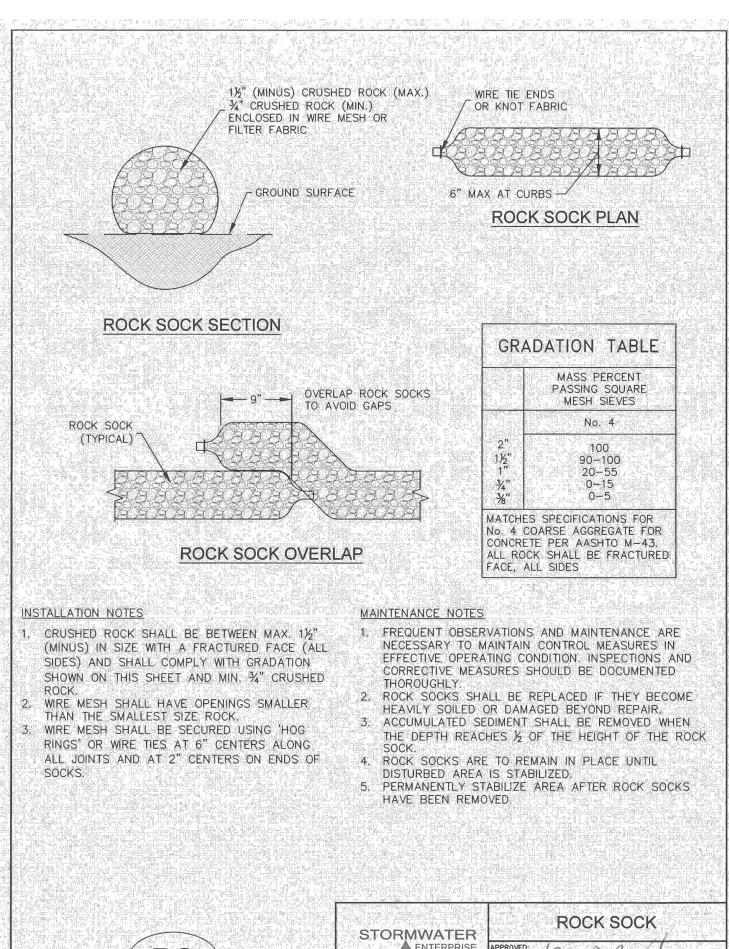


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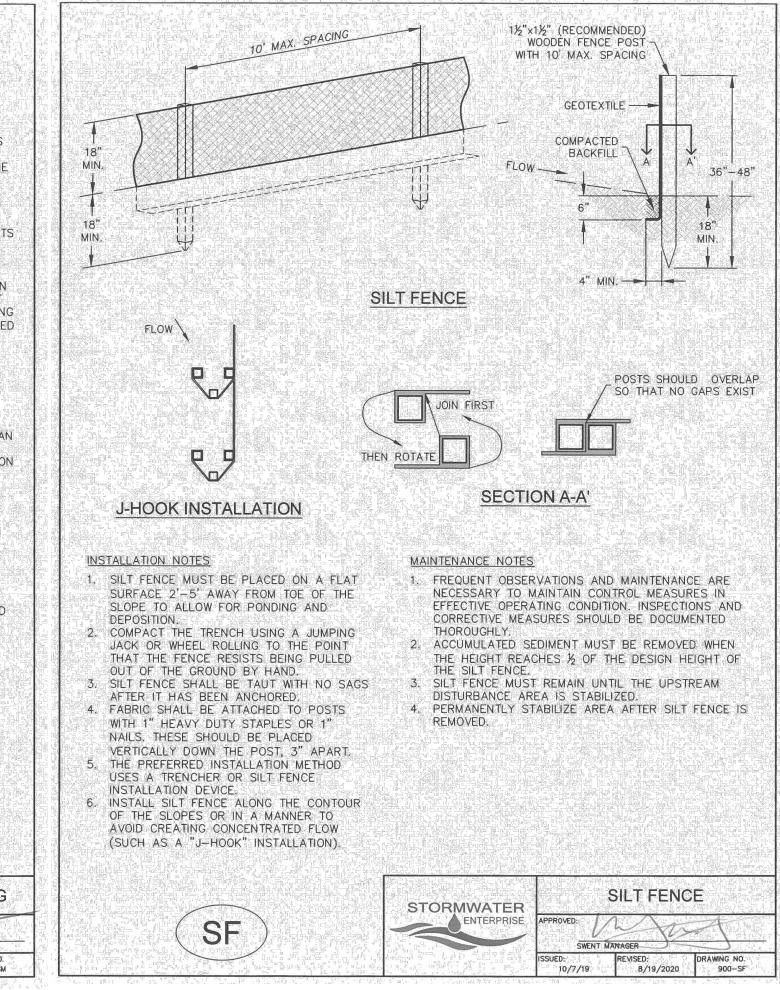
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MIKE A. BRAMLETT, P.E. COLORADO P.E. 32314	SHEET '	118 OF	121
FOR AND ON BEHALF OF JR ENGINEERING OVAL	JOB NO.	25188.	04

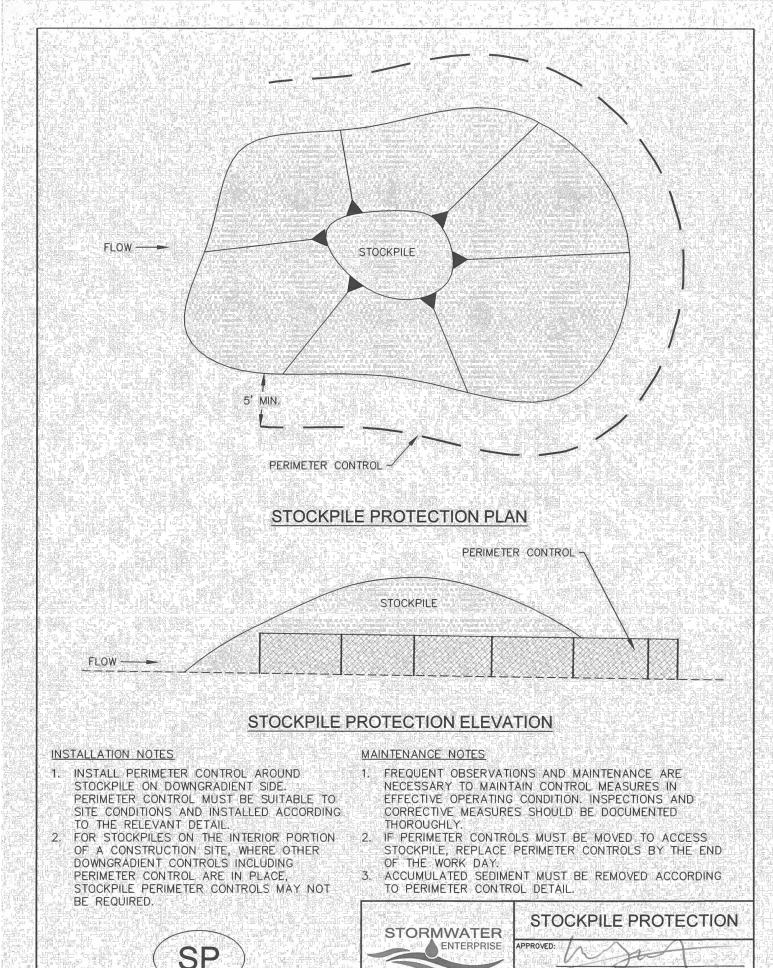
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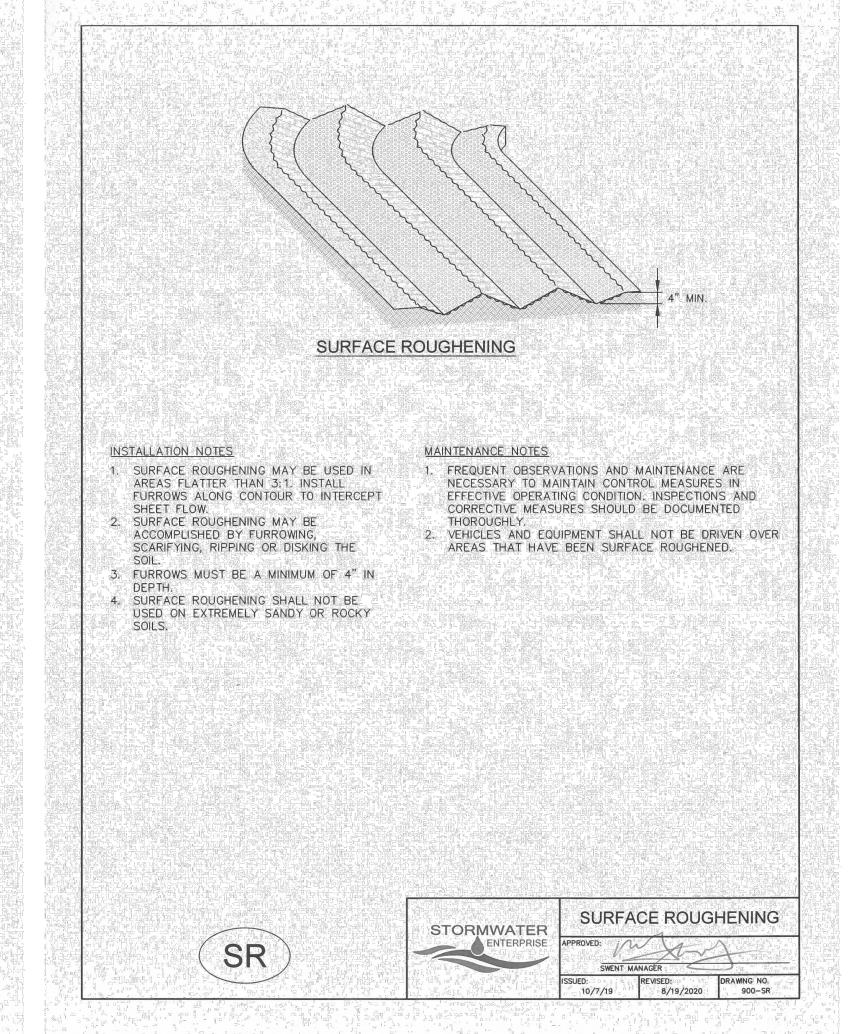


SEEDING & MULCHING ALL SOIL TESTING, SOILS AMENDMENT AND FERTILIZER DOCUMENTATION, AND SEED LOAD AND BAG TICKETS MUST BE ADDED TO THE CSWMP. SOIL PREPARATION 1. IN AREAS TO BE SEEDED, THE UPPER 6 INCHES OF THE SOIL MUST NOT BE HEAVILY COMPACTED. AND SHOULD BE IN FRIABLE CONDITION. LESS THAN 85% STANDARD PROCTOR DENSITY IS ACCEPTABLE. AREAS OF COMPACTION OR GENERAL CONSTRUCTION ACTIVITY MUST BE SCARIFIED TO A DEPTH OF 6 TO 12 INCHES PRIOR TO SPREADING TOPSOIL TO BREAK UP COMPACTED LAYERS AND PROVIDE A BLENDING ZONE BETWEEN DIFFERENT SOIL LAYERS. AREAS TO BE PLANTED SHALL HAVE AT LEAST 4 INCHES OF TOPSOIL SUITABLE TO SUPPORT PLANT THE CITY RECOMMENDS THAT EXISTING AND/OR IMPORTED TOPSOIL BE TESTED TO IDENTIFY SOIL DEFICIENCIES AND ANY SOIL AMENDMENTS NECESSARY TO ADDRESS THESE DEFICIENCIES. SOIL AMENDMENTS AND/OR FERTILIZERS SHOULD BE ADDED TO CORRECT TOPSOIL DEFICIENCIES BASED ON SOIL TESTING 4. TOPSOIL SHALL BE PROTECTED DURING THE CONSTRUCTION PERIOD TO RETAIN ITS STRUCTURE AVOID COMPACTION, AND TO PREVENT EROSION AND CONTAMINATION. STRIPPED TOPSOIL MUST BE STORED IN AN AREA AWAY FROM MACHINERY AND CONSTRUCTION OPERATIONS, AND CARE MUST BE TAKEN TO PROTECT THE TOPSOIL AS A VALUABLE COMMODITY. TOPSOIL MUST NOT BE STRIPPED DURING UNDESIRABLE WORKING CONDITIONS (E.G. DURING WET WEATHER OR WHEN SOILS ARE SATURATED). TOPSOIL SHALL NOT BE STORED IN SWALES OR IN AREAS WITH POOR DRAINAGE. 1. ALLOWABLE SEED MIXES ARE INCLUDED IN THE CITY OF COLORADO SPRINGS STORMWATER CONSTRUCTION MANUAL. ALTERNATIVE SEED MIXES ARE ACCEPTABLE IF INCLUDED IN AN APPROVED LANDSCAPING PLAN. SEED SHOULD BE DRILL—SEEDED WHENEVER POSSIBLE • SEED DEPTH MUST BE ½ TO ½ INCHES WHEN DRILL—SEEDING IS USED BROADCAST SEEDING OR HYDRO—SEEDING WITH TACKIFIER MAY BE SUBSTITUTED ON SLOPES STEEPER THAN 3:1 OR ON OTHER AREAS NOT PRACTICAL TO DRILL SEED. • SEEDING RATES MUST BE DOUBLED FOR BROADCAST SEEDING OR INCREASED BY 50% IF USING A BRILLION DRILL OR HYDRO-SEEDING •BROADCAST SEEDING MUST BE LIGHTLY HAND-RAKED INTO THE SOIL MULCHING SHOULD BE COMPLETED AS SOON AS PRACTICABLE AFTER SEEDING, HOWEVER PLANTED AREAS MUST BE MULCHED NO LATER THAN 14 DAYS AFTER PLANTING. MULCHING REQUIREMENTS INCLUDE: • HAY OR STRAW MULCH - ONLY CERTIFIED WEED-FREE AND CERTIFIED SEED-FREE MULCH MAY BE USED. MULCH MUST BE APPLIED AT 2 TONS/ACRE AND ADEQUATELY SECURED BY CRIMPING AND/OR TACKIFIER. CRIMPING MUST NOT BE USED ON SLOPES GREATER THAN 3:1 AND MULCH FIBERS MUST BE TUCKED INTO THE SOIL TO A DEPTH OF 3 TO 4 INCHES. - TACKIFIER MUST BE USED IN PLACE OF CRIMPING ON SLOPES STEEPER THAN 3:1. HYDRAULIC MULCHING HYDRAULIC MULCHING IS AN OPTION ON STEEP SLOPES OR WHERE ACCESS IS LIMITED. IF HYDRO-SEEDING IS USED, MULCHING MUST BE APPLIED AS A SEPARATE, SECOND OPERATION. WOOD CELLULOSE FIBERS MIXED WITH WATER MUST BE APPLIED AT A RATE OF 2,000 TO 2,500 POUNDS/ACRE, AND TACKIFIER MUST BE APPLIED AT A RATE OF 100 POUNDS/ACRE. • EROSION CONTROL BLANKET - EROSION CONTROL BLANKET MAY BE USED IN PLACE OF TRADITIONAL MULCHING METHODS SEEDING & MULCHING STORMWATER 8/19/2020 8/19/2020





8/19/2020





ENGINEER'S STATEMENT

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION CONTROL PLANS AND SPECIFICATIONS, AND SAID PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.

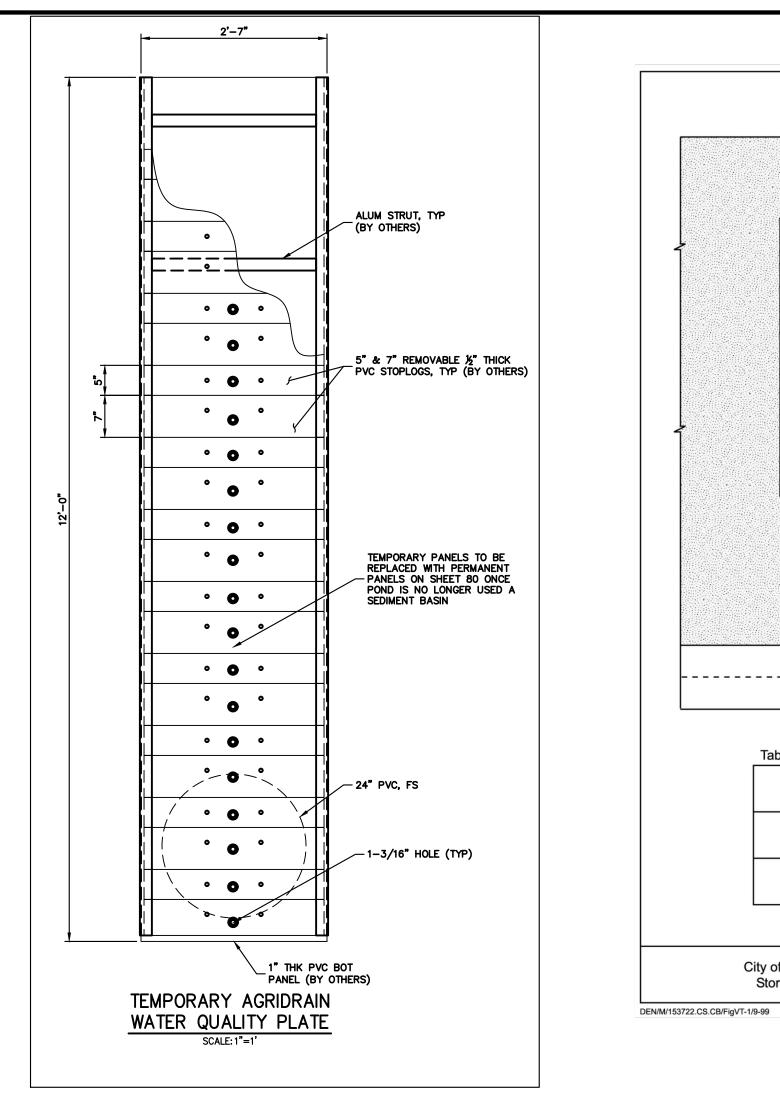
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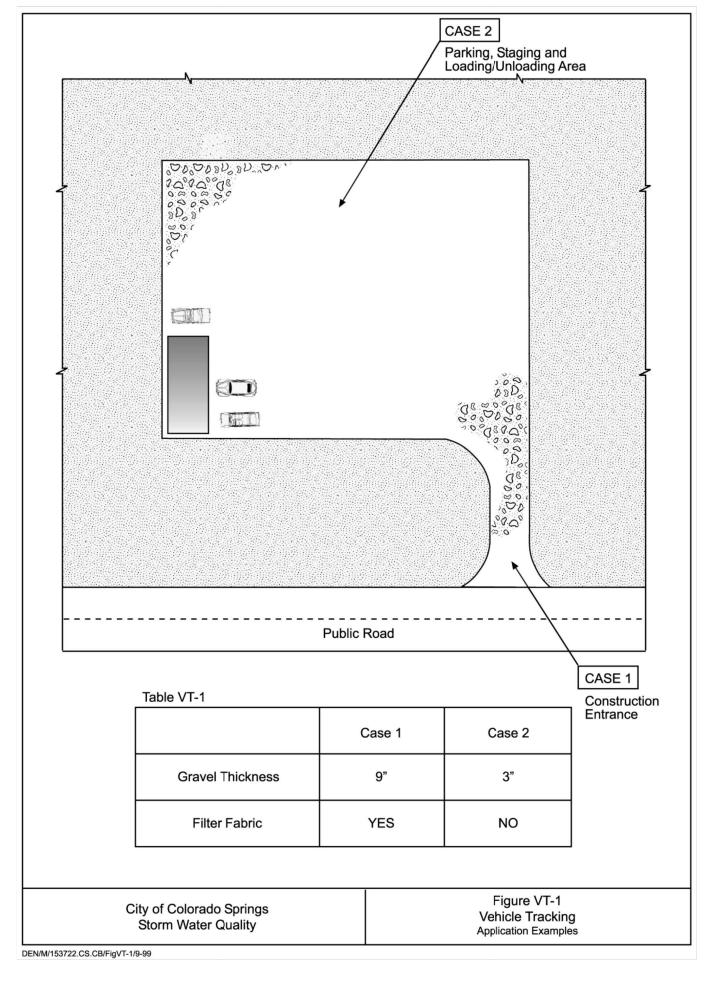
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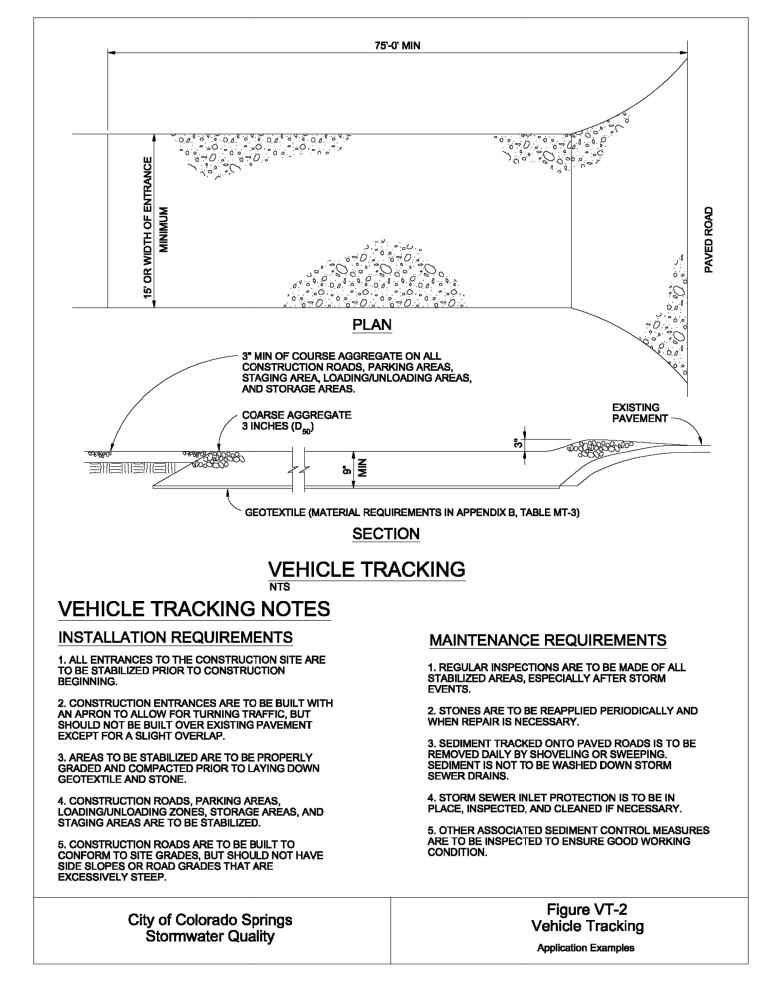
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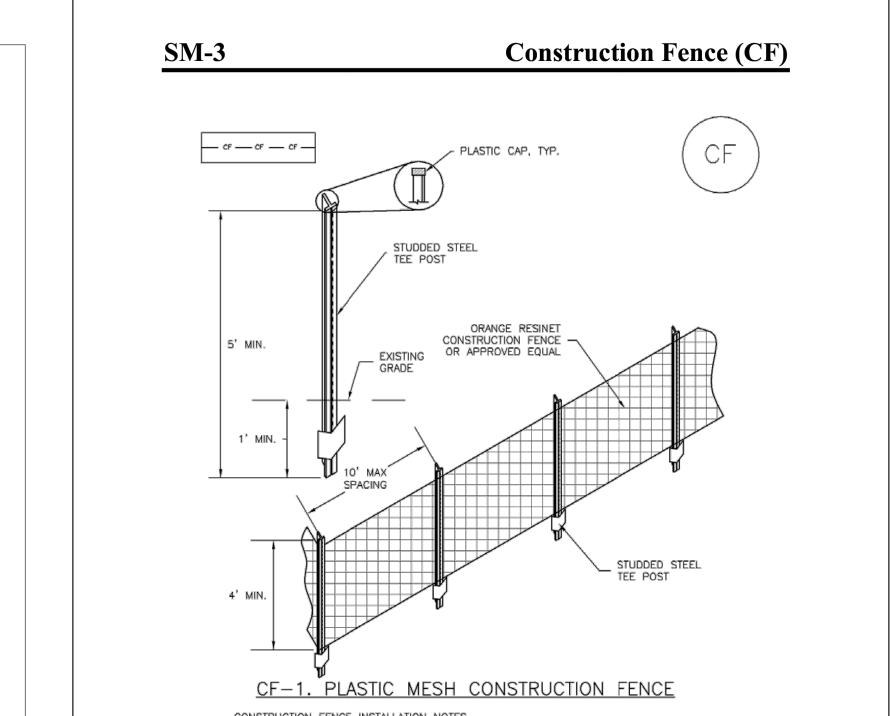
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CONSTRUCTION FENCE INSTALLATION NOTES

SEE PLAN VIEW FOR:
 -LOCATION OF CONSTRUCTION FENCE.

CF-2

SB-7

2. CONSTRUCTION FENCE SHOWN SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING

3. CONSTRUCTION FENCE SHALL BE COMPOSED OF ORANGE, CONTRACTOR-GRADE MATERIAL THAT IS AT LEAST 4' HIGH. METAL POSTS SHOULD HAVE A PLASTIC CAP FOR SAFETY. 4. STUDDED STEEL TEE POSTS SHALL BE UTILIZED TO SUPPORT THE CONSTRUCTION FENCE.

5. CONSTRUCTION FENCE SHALL BE SECURELY FASTENED TO THE TOP, MIDDLE, AND BOTTOM OF EACH POST.

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MAXIMUM SPACING FOR STEEL TEE POSTS SHALL BE 10'.

November 2010

Sediment Basin (SB) SC-7 SHALL ENTER AT FURTHEST DISTANCE TO OUTLET AND SHALL CONSIST OF A TEMPORARY SLOPE CRUSHED BOCK AGRIDRAIN WILL ACT AS THE WATER QUALITY STRUCTURE UPON COMPLETION. SEE -ABOVE DETAIL FOR TEMPORARY CONTROL DETAILS SEDIMENT BASIN PLAN *EXCEPT WHERE THE HOLES EXCEED 1" DIAMETER, THEN UP TO TWO COLUMNS OF SAME SIZED HOLES MAY BE USED SCHEDULE 40 PVC OR GREATER D50=9 NF NA. TYPE L (SEE TABLE MD-7, MAJOR SRMD POND 1 & 2 WILL ACT AS A SEDIMENT BASIN FOR CONSTRUCTION OF THE CHANNEL NORTH OF IT. UPON COMPLETION OF GRADING ACTIVITIES BETWEEN POND 1 & ∠ D50=9" RIPRAP TYPE L 2, POND 1 WILL BE DREDGED BACK TO IT'S ORIGINAL VOLUME AND POND 2 WILL ACT AS THE SEDIMENT BASIN. UPON COMPLETION OF GRADING ACTIVITIES NORTH OF POND 2, POND 2 WILL BE DREDGED BACK TO ITS ORIGINAL VOLUME. Urban Drainage and Flood Control District SB-5 Urban Storm Drainage Criteria Manual Volume 3

SC-7 Sediment Basin (SB)

TABLE SB=1. SIZING INFORMATION FOR STANDARD SEDIMENT BASIN				
Upstream Drainage Area (rounded to nearest acre), (ac)	Basin Bottom Width (W), (ft)	Spillway Crest Length (CL), (ft)	Hole Diameter (HD), (in)	
1234567890112345	12 ½ 21 28 33 ½ 38 ½ 43 47 ¼ 51 55 58 ¼ 61 64 67 ½ 70 ½	2 3 5 6 8 9 11 12 13 15 16 18 19 21 22	%32 136 21 96 2352 2552 2552 2552 26 136 3352 1 1 16 1 36	

SEDIMENT BASIN INSTALLATION NOTES.

SB-6

1. SEE PLAN VIEW FOR:
-LOCATION OF SEDIMENT BASIN.

TYPE OF BASIN (STANDARD BASIN OR NONSTANDARD BASIN).
FOR STANDARD BASIN, BOTTOM WIDTH W. CREST LENGTH CL. AND HOLE DIAMETER, HD. =FOR NONSTANDARD BASIN, SEE CONSTRUCTION DRAWINGS FOR DESIGN OF BASIN INCLUDING RISER HEIGHT H, NUMBER OF COLUMNS N, HOLE DIAMETER HD AND PIPE.

2. FOR STANDARD BASIN, BOTTOM DIMENSION MAY BE MODIFIED AS LONG AS BOTTOM AREA IS NOT REDUCED:

3. SEDIMENT BASINS SHALL BE INSTALLED PRIOR TO ANY OTHER LAND-DISTURBING ACTIVITY THAT RELIES ON ON BASINS AS AS A STORMWATER CONTROL.

4. EMBANKMENT MATERIAL SHALL CONSIST OF SOIL FREE OF DEBRIS, ORGANIC MATERIAL, AND ROCKS OR CONCRETE GREATER THAN 3 INCHES AND SHALL HAVE A MINIMUM OF 15 PERCENT BY WEIGHT PASSING THE NO. 200 SIEVE.

5. EMBANKMENT MATERIAL SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D698. 6. PIPE SCH 40 OR GREATER SHALL BE USED.

7. THE DETAILS SHOWN ON THESE SHEETS PERTAIN TO STANDARD SEDIMENT BASIN(S) FOR DRAINAGE AREAS LESS THAN 15 ACRES. SEE CONSTRUCTION DRAWINGS FOR EMBANKMENT, STORAGE VOLUME, SPILLWAY, OUTLET, AND OUTLET PROTECTION DETAILS FOR ANY SEDIMENT BASIN(S) THAT HAVE BEEN INDIVIDUALLY DESIGNED FOR DRAINAGE AREAS LARGER THAN 15 ACRES.

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Sediment Basin (SB)

SEDIMENT BASIN MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE, INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE

2: FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION, INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. SEDIMENT ACCUMULATED IN BASIN SHALL BE REMOVED AS NEEDED TO MAINTAIN BMP EFFECTIVENESS, TYPICALLY WHEN SEDIMENT DEPTH REACHES ONE FOOT (I.E., TWO FEET

5. SEDIMENT BASINS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA. IS STABILIZED AND GRASS COVER IS ACCEPTED BY THE LOCAL JURISDICTION. 6. WHEN SEDIMENT BASINS ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

Urban Drainage and Flood Control District

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ENGINEER'S STATEMENT

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION CONTROL PLANS AND SPECIFICATIONS, AND SAID PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.

32314 MIKE A. BRAMLETT, P.E. COLORADO P.E. 32314

FOR AND ON BEHALF OF JR ENGINEERING

11/20/23

SHEET 120 OF 121

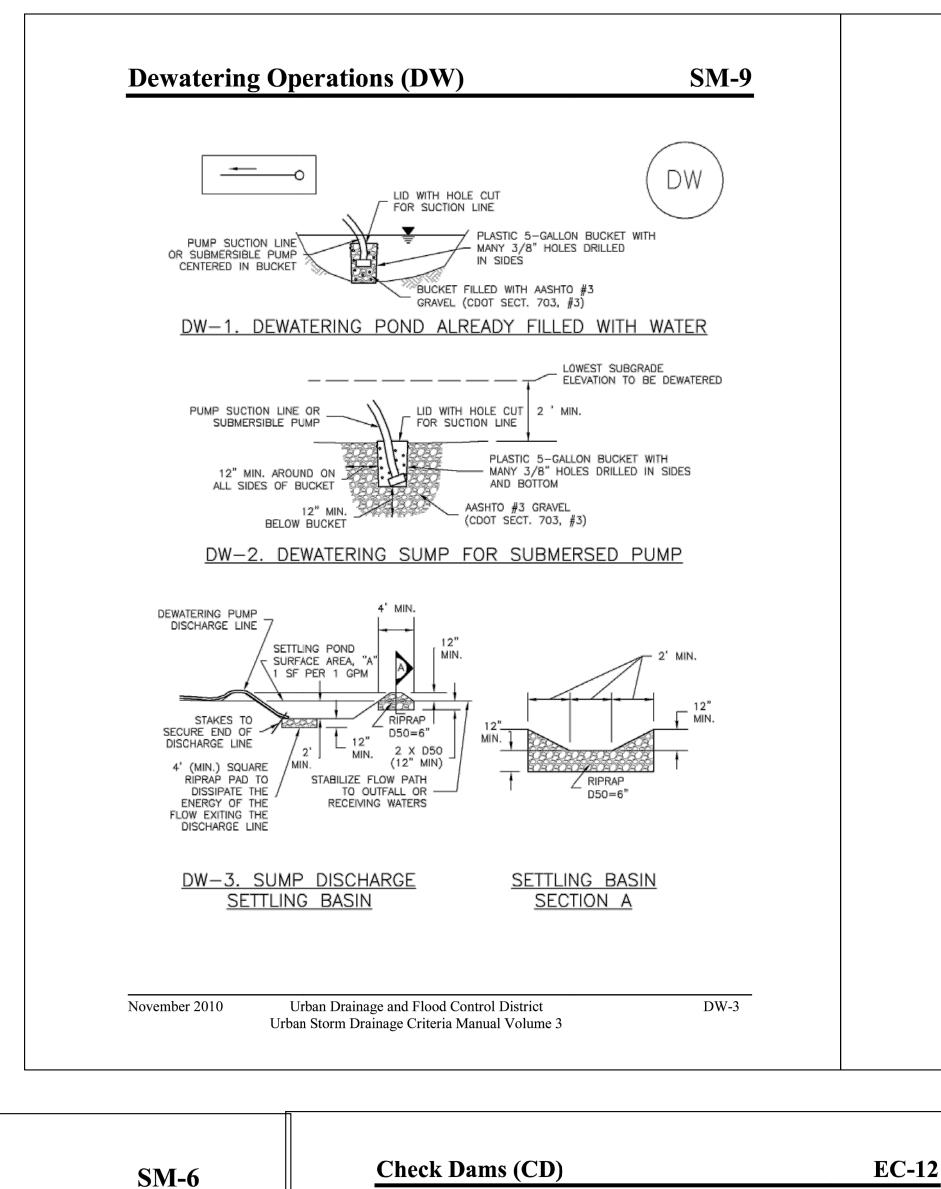
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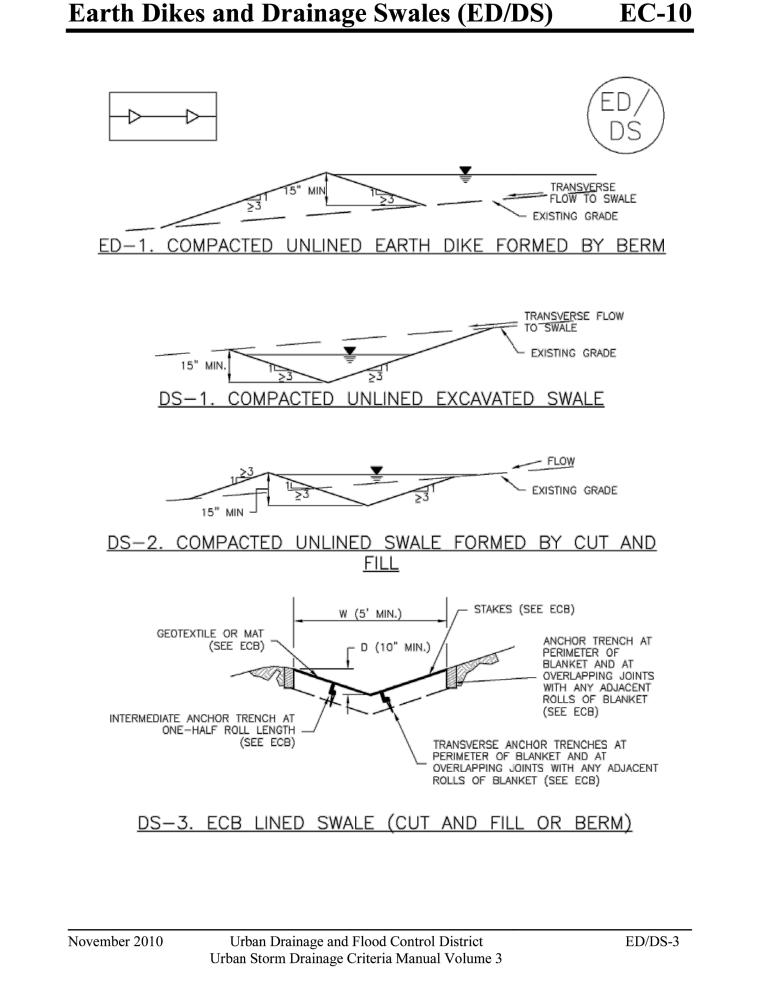
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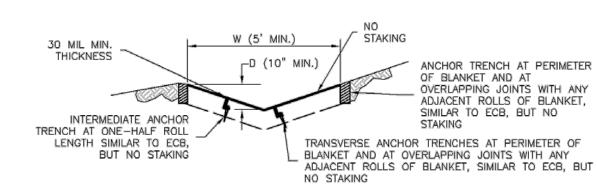
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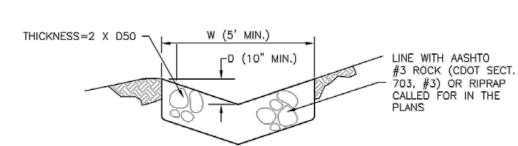




Earth Dikes and Drainage Swales (ED/DS)



DS-4. SYNTHETIC LINED SWALE



DS-5. RIPRAP LINED SWALE

EARTH DIKE AND DRAINAGE SWALE INSTALLATION NOTES

- 1. SEE SITE PLAN FOR: - LOCATION OF DIVERSION SWALE
- TYPE OF SWALE (UNLINED, COMPACTED AND/OR LINED). - LENGTH OF EACH SWALE.
 - DEPTH, D, AND WIDTH, W DIMENSIONS.
- FOR ECB/TRM LINED DITCH, SEE ECB DETAIL.
 FOR RIPRAP LINED DITCH, SIZE OF RIPRAP, D50.
- 2. SEE DRAINAGE PLANS FOR DETAILS OF PERMANENT CONVEYANCE FACILITIES AND/OR DIVERSION SWALES EXCEEDING 2-YEAR FLOW RATE OR 10 CFS.
- 3. EARTH DIKES AND SWALES INDICATED ON SWMP PLAN SHALL BE INSTALLED PRIOR TO LAND-DISTURBING ACTIVITIES IN PROXIMITY.
- 4. EMBANKMENT IS TO BE COMPACTED TO 90% OF MAXIMUM DENSITY AND WITHIN 2% OF OPTIMUM MOISTURE CONTENT ACCORDING TO ASTM D698.
- 5. SWALES ARE TO DRAIN TO A SEDIMENT CONTROL BMP.
- 6. FOR LINED DITCHES, INSTALLATION OF ECB/TRM SHALL CONFORM TO THE REQUIREMENTS
- 7. WHEN CONSTRUCTION TRAFFIC MUST CROSS A DIVERSION SWALE, INSTALL A TEMPORARY CULVERT WITH A MINIMUM DIAMETER OF 12 INCHES.

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Stabilized Staging Area (SSA)

—— SF/CF —— SF/CF —— ONSITE CONSTRUCTION CONSTRUCTION VEHICLE PARKING (IF NEEDED)

3" MIN. THICKNESS GRANULAR MATERIAL STABILIZED AREA CONSTRUCTION ENTRANCE (SEE DETAILS VTC-1 TO VTC-3) SILT FENCE OR CONSTRUCTION — SF/CF —— SF/CF → FENCING AS NEEDED EXISTING ROADWAY

SSA-1. STABILIZED STAGING AREA

STABILIZED STAGING AREA INSTALLATION NOTES

1. SEE PLAN VIEW FOR

-LOCATION OF STAGING AREA(S). -CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL

- 2. STABILIZED STAGING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE. OVERSIZING RESULTS IN A LARGER AREA TO STABILIZE FOLLOWING CONSTRUCTION. 3. STAGING AREA SHALL BE STABILIZED PRIOR TO OTHER OPERATIONS ON THE SITE.
- 5. UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.

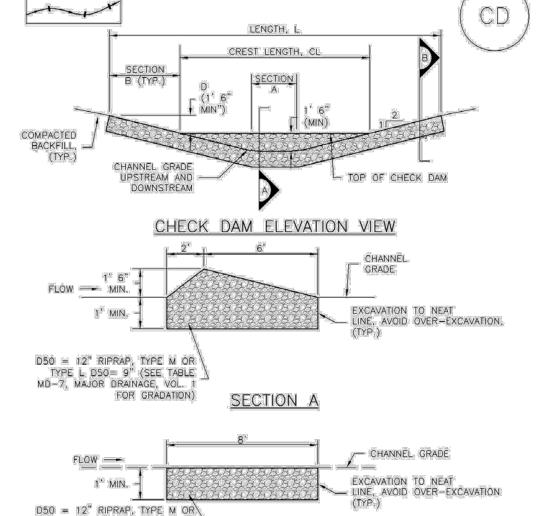
6. ADDITIONAL PERIMETER BMPs MAY BE REQUIRED INCLUDING BUT NOT LIMITED TO SILT

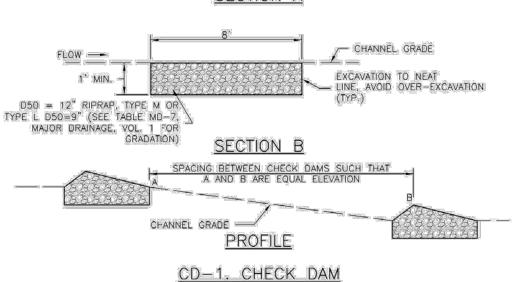
4. THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM 3" THICK GRANULAR

- FENCE AND CONSTRUCTION FENCING. STABILIZED STAGING AREA MAINTENANCE NOTES
- 1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- 2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE
- 3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- 4. ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY IF RUTTING OCCURS OR UNDERLYING SUBGRADE BECOMES EXPOSED.

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SSA-3





November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 **EC-12**

CD-4

Check Dams (CD)

November 2010

ED/DS-4

CHECK DAM INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
-LOCATION OF CHECK DAMS.
-CHECK DAM TYPE (CHECK DAM OR REINFORCED CHECK DAM). -LENGTH (L), CREST LENGTH (CL), AND DEPTH (D).

2. CHECK DAMS INDICATED ON INITIAL SWMP SHALL BE INSTALLED AFTER CONSTRUCTION FENCE, BUT PRIOR TO ANY UPSTREAM LAND DISTURBING ACTIVITIES. 3. RIPRAP UTILIZED FOR CHECK DAMS SHOULD BE OF APPROPRIATE SIZE FOR THE APPLICATION. TYPICAL TYPES OF RIPRAP USED FOR CHECK DAMS ARE TYPE M (D50 12") OR TYPE L (D50 9")

4. RIPRAP PAD SHALL BE TRENCHED INTO THE GROUND A MINIMUM OF 12. 5. THE ENDS OF THE CHECK DAM SHALL BE A MINIMUM OF 1' 6" HIGHER THAN THE CENTER: OF THE CHECK DAM.

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE.

2 FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs in effective operating condition. Inspections and corrective measures should be documented thoroughly.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. SEDIMENT ACCUMULATED UPSTREAM OF THE CHECK DAMS SHALL BE REMOVED WHEN THE SEDIMENT DEPTH IS WITHIN 1/2 OF THE HEIGHT OF THE CREST. 5. CHECK DAMS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.

6. WHEN CHECK DAMS ARE REMOVED, EXCAVATIONS SHALL BE FILLED WITH SUITABLE COMPACTED BACKFILL. DISTURBED AREA SHALL BE SEEDED AND MULCHED AND COVERED WITH GEOTEXTILE OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD) NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN

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