

**SUBDIVISION IMPROVEMENTS AGREEMENT**

THIS AGREEMENT, made between Lorson Ranch Metropolitan District, Lorson LLC as nominee for Conservation Investment I, LLLP, and Lorson LLC as nominee for Murray Fountain, LLC hereinafter together called the "Subdivider," and El Paso County by and through the Board of County Commissioners of El Paso County, Colorado, hereinafter called the "County," shall become effective the date of approval of the Final Plat by the Board of County Commissioners.

WITNESSETH:

WHEREAS, the Subdivider, as a condition of approval of the final plat of Lorson Ranch East Filing No. 2 subdivision wishes to enter into a Subdivision Improvements Agreement, as provided for by Section 30-28-137 (C.R.S.), Chapter 5 of the El Paso County Engineering Criteria Manual and Chapter 8 of the El Paso County Land Development Code incorporated herein; and

WHEREAS, pursuant to the same authority, the Subdivider is obligated to provide security or collateral sufficient in the judgment of the Board of County Commissioners to make reasonable provision for completion of certain public improvements set forth on Exhibit A attached hereto and incorporated herein; and

WHEREAS, the Subdivider wishes to provide collateral to guarantee performance of this Agreement including construction of the above-referenced improvements by means of Irrevocable Letter of Credit.

NOW, THEREFORE, in consideration of the following mutual covenants and agreements, the Subdivider and the County agree as follows:

1. The Subdivider agrees to construct and install, at its sole expense, all of those improvements as set forth on Exhibit A attached hereto. To secure and guarantee performance of its obligations as set forth herein, the Subdivider agrees to provide collateral to remain in effect at all times until the improvements are completed and accepted in accordance with Chapter 5 of the ECM. Security and collateral shall be posted in the form of Irrevocable Letters of Credit from Kirkpatrick Bank in the amount of \$1,003,196.95 and \$2,074,670.20.
2. Subdivider is responsible for providing any renewals of collateral to ensure that there is never a lapse in security coverage. Subdivider shall procure renewal/extension/replacement collateral at least fifteen (15) days prior to the expiration of the original or renewal/extension/replacement collateral then in effect. Failure to procure renewal/extension/replacement collateral within this time limit shall be a default under this Agreement and shall allow the County to execute on the collateral. In addition, if Subdivider allows collateral to lapse at any time, no lots in the subdivision may be sold, conveyed or transferred, whether by Deed or Contract, after the expiration date of such collateral until the improvements identified on Exhibit A have been completed and final acceptance is received from the County. If replacement collateral is used for renewal, approval by Board of County Commissioners is required.
3. No lots in the subdivision shall be sold, conveyed or transferred, whether by Deed or by Contract, nor shall building permits be issued until and unless the required improvements for the subdivision have been constructed and completed in accordance with the approved construction plans and preliminary acceptance is received from the County. In the alternative, lots within the subdivision may be sold, conveyed or transferred and / or have building permits issued upon

Chuck Broerman

El Paso County, CO

01/30/2020 11:55:34 AM

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receipt of collateral acceptable to the County, pursuant to this Agreement, which is sufficient to guarantee construction of the improvements in the attached Exhibit A.

4. The Subdivider agrees that all of those certain public improvements to be completed as identified on Exhibit A shall be constructed in compliance with the following:
  - a. All laws, resolutions and regulations of the United States, State of Colorado, El Paso County and its various agencies, affected special districts and/or servicing authorities.
  - b. Such other designs, drawings, maps, specifications, sketches and other matter submitted to and approved by any of the above-stated governmental entities.
5. All improvements shall be completed by the Subdivider, meeting all applicable standards for preliminary acceptance, within 24 (twenty-four) months from the date of notice to proceed in the Construction Permit for the Subdivision. If the Subdivider determines that the completion date needs to be extended, the Subdivider shall submit a written request for a change in the completion date to the ECM Administrator at least 90 days in advance of the required completion date. The request shall include the reasons for the requested change in completion date, the proposed new completion date, and prove collateral is in place to cover the extension time requested. The completion date for the Subdivision may be extended one time, for a period no longer than 6 months at the discretion of the ECM Administrator. Any additional requests for extension of the completion date will be scheduled for hearing by the Board of County Commissioners. The ECM Administrator or the Board of County Commissioners may require an adjustment in the amount of collateral to take into account any increase in cost due to the delay including inflation.
6. It is mutually agreed pursuant to the provisions of Section 30-28-137 (3) C.R.S. that the County or any purchaser of any lot, lots, tract or tracts of land subject to a plat restriction which is the security portion of a Subdivision Improvements Agreement shall have the authority to bring an action in any District Court to compel the enforcement of any Subdivision Improvements Agreement on the sale, conveyance, or transfer of any such lot, lots, tract or tracts of land or of any other provision of this article. Such authority shall include the right to compel rescission of any sale, conveyance, or transfer of any lot, lots, tract or tracts of land contrary to the provisions of any such restrictions set forth on the plat or in any separate recorded instrument, but any such action shall be commenced prior to the issuance of a building permit by the County where so required or otherwise prior to commencement of construction on any such lot, lots, tract or tracts of land.
7. It is further mutually agreed that, pursuant to the provisions of Section 30-28-137 (2) C.R.S., and Chapter 5 of the County's Engineering Criteria Manual, as improvements are completed, the Subdivider may apply to the Board of County Commissioners for a release of part or all of the collateral deposited with said Board. Upon inspection and approval, the Board shall release said collateral. The County agrees to respond to an inspection request in a reasonable time upon receipt of the request. If the Board determines that any of such improvements are not constructed in substantial compliance with specifications it shall furnish the Subdivider a list of specific deficiencies and shall be entitled to withhold collateral sufficient to ensure such substantial compliance. If the Board of County Commissioners determines that the Subdivider will not construct any or all of the improvements in accordance with all of the specifications, the Board of County Commissioners may withdraw and employ from the deposit of collateral such funds as may be necessary to construct the improvements in accordance with the specifications.
8. The Subdivider agrees, and all parties acknowledge that the construction of the improvements identified and guaranteed through this Subdivision Improvements Agreement shall follow the

inspection, collateral, and acceptance process that is identified in Chapter 5 of the County's Engineering Criteria Manual. This is to include among other things, a Preliminary Acceptance process, replacement of performance collateral with appropriate Warranty collateral at that time, and a 2 year warranty period prior to final acceptance. Where any inconsistency exists between Chapter 5 of the Engineering Criteria Manual and the Land Development Code with respect to these inspections, collateral and acceptance processes, the Engineering Criteria Manual is the controlling document.

9. Drainage fees due for this Subdivision are \$322,236. Pursuant to Resolution No. 16-320, recorded in the records of the El Paso County Clerk and Recorder at Reception No. 216101958, the amount of collateral that must be posted for possible payment of a future increase in drainage fees is \$136,506. Subdivider anticipates recording an additional final plat for Creekside at Lorson Ranch Filing No. 1 ("Creekside") in the near future and, in connection with Creekside, constructing over two million dollars in regional drainage improvements. The Parties therefore agree as follows:
  - a. Upon recording the final plat of Lorson Ranch East Filing No. 2, Subdivider shall provide the County with an irrevocable letter of credit issued by Kirkpatrick Bank in the amount of \$2,074,670.20 in order to guarantee construction of the improvements set forth in Exhibit B, attached hereto and incorporated herein by reference, which include the regional drainage improvements anticipated to be constructed in connection with Creekside. No drainage fees or additional drainage collateral will be collected at plat recording.
  - b. Upon recording the final plat for Creekside, Subdivider shall enter into a subdivision improvements agreement that includes the obligation to construct the regional drainage improvements for which collateral is now being posted pursuant to this paragraph 9. Subdivider shall provide an updated financial assurance estimate based upon approved construction drawings and provide a new irrevocable letter of credit to reflect the new estimate. The irrevocable letter of credit posted in connection with Lorson Ranch East Filing No. 2 shall thereafter be released. The amount of drainage fees and additional drainage collateral required in connection with Lorson Ranch East Filing No. 2 shall be subtracted from any future drainage credits applied for or received for the regional drainage improvements constructed in connection with Creekside.
  - c. If the final plat for Creekside is not recorded within two (2) years of the date of recording the final plat for Lorson Ranch East Filing No. 2, then one of the following shall occur:
    - i. The Subdivider shall immediately pay to the County the drainage fees and additional drainage collateral due, in the amounts set forth above. Following payment, the County will release the irrevocable letter of credit provided pursuant to paragraph 9.a above.
    - ii. The County may withdraw from the irrevocable letter of credit provided pursuant to paragraph 9.a above the drainage fees and additional drainage collateral due, in the amounts set forth above. The remaining balance shall be released.

In either circumstance, the regional drainage improvements anticipated to be constructed in connection with Creekside, and the collateral necessary to guarantee such construction, shall be required at such time as the final plat for Creekside is recorded.

10. The Subdivider agrees to provide the County with a title insurance commitment at time of final platting evidencing that fee simple title of all lands in the subdivision is vested with the Subdivider.

11. The County agrees to approval of the final plat of Lorson Ranch East Filing No. 2 Subdivision subject to the terms and conditions of this Agreement.
12. Parties hereto mutually agree that this Agreement may be amended from time to time provided that such amendment be in writing and signed by all parties hereto.
13. This Agreement shall take effect on the date of approval of the Final Plat by the Board of County Commissioners.
14. The Subdivider agrees for itself and its successors and assigns that Subdivider and/or said successors and assigns shall be required to pay road impact fees in accordance with the El Paso County Road Impact Fee Program at or prior to the time of building permit submittals.
15. The Subdivider agrees for itself and its successors and assigns that Subdivider and/or said successors and assigns shall be required to maintain the interim drainage facilities upstream of the public facilities, including removal of any sediment and debris that clogs or enters the private and public storm drain facilities. Subdivider and/or said successors and assigns shall be held responsible for any overtopping of the temporary facilities that results in damages or sedimentation of downstream facilities and properties.

IN WITNESS WHEREOF, the parties have hereunto set their hands and seals the day and year below written.

BOARD OF COUNTY COMMISSIONERS OF  
EL PASO COUNTY, COLORADO

12/11/19  
(Date Final Plat Approved)

ATTEST Chad R. Braeimer  
County Clerk and Recorder



By: Mark Waller  
Mark Waller, Chair

Approved as to form:

Geri L. Seago  
Sr. Asst. Co. Atty.

**SUBDIVIDER:**

Executed this 24<sup>th</sup> day of January, 2020, by:

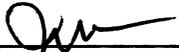
Lorson, LLC as nominee for Murray Fountain, LLC

By:   
Jeff Mark, Manager, Lorson, LLC

Lorson, LLC as nominee for Lorson Conservation Investment I, LLLP

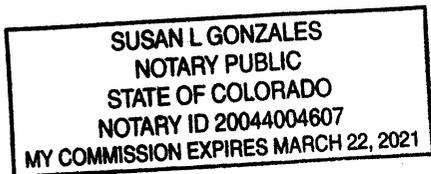
By:   
Jeff Mark, Manager, Lorson, LLC

LORSON RANCH METROPOLITAN DISTRICT

By:   
Jeff Mark, President

Subscribed, sworn to and acknowledged before me this 24<sup>th</sup> day of January, 2020  
by the parties above named.

My commission expires: 3-22-21.



  
Notary Public

**Exhibit A – Lorson Ranch East Filing No. 2 Financial Assurance Estimate**

2019 Financial Assurance Estimate Form  
(with pre-plate construction)

Updated: 7/16/2019

PROJECT INFORMATION		
Project Name: Lorson Ranch East Filing No. 2	1/22/2020	SF 18-019
	Date: December 19, 2019	PCD File No.

Description	Quantity	Units	Unit Cost	Total	(with Pre-Plate Construction)	
					% Complete	Remaining
<b>SECTION 1 - GRADING AND EROSION CONTROL (Construction and Permanent BMPs)</b>						
* Earthwork						
less than 1,000; \$5,300 min		CY	\$ 8.00	= \$ -		\$ -
1,000-5,000; \$8,000 min		CY	\$ 8.00	= \$ -		\$ -
5,001-20,000; \$30,000 min		CY	\$ 5.00	= \$ -		\$ -
20,001-50,000; \$100,000 min	50,000	CY	\$ 3.60	= \$ 175,000.00	80.00%	\$ 35,000.00
50,001-200,000; \$175,000 min		CY	\$ 2.50	= \$ -		\$ -
greater than 200,000; \$500,000 min		CY	\$ 2.00	= \$ -		\$ -
* Permanent Seeding (inc. noxious weed mgmnt.)	21	AC	\$ 800.00	= \$ 16,800.00	0.00%	\$ 16,800.00
* Mulching	21	AC	\$ 750.00	= \$ 15,750.00	0.00%	\$ 15,750.00
* Permanent Erosion Control Blanket		SY	\$ 6.00	= \$ -		\$ -
* Permanent Pond/BMP Construction		CY	\$ 20.00	= \$ -		\$ -
* Permanent Pond/BMP (Spillway)	1	EA	\$ 15,000.00	= \$ 15,000.00	80.00%	\$ 3,000.00
* Permanent Pond/BMP (Outlet Structure)	1	EA	\$ 4,000.00	= \$ 4,000.00	80.00%	\$ 800.00
Safety Fence		LF	\$ 3.00	= \$ -		\$ -
Temporary Erosion Control Blanket		SY	\$ 3.00	= \$ -		\$ -
Vehicle Tracking Control	3	EA	\$ 2,370.00	= \$ 7,110.00	100.00%	\$ -
Silt Fence		LF	\$ 2.50	= \$ -		\$ -
Temporary Seeding	30	AC	\$ 628.00	= \$ 18,840.00	100.00%	\$ -
Temporary Mulch	30	AC	\$ 750.00	= \$ 22,500.00	100.00%	\$ -
Erosion Bales	200	EA	\$ 25.00	= \$ 5,000.00	100.00%	\$ -
Erosion Logs/Straw Waddle		LF	\$ 5.00	= \$ -		\$ -
Rock Check Dams		EA	\$ 500.00	= \$ -		\$ -
Inlet Protection	13	EA	\$ 167.00	= \$ 2,171.00	80.00%	\$ 434.20
Sediment Basin	2	EA	\$ 1,762.00	= \$ 3,524.00	100.00%	\$ -
Concrete Washout Basin	1	EA	\$ 900.00	= \$ 900.00	80.00%	\$ 180.00
[insert items not listed but part of construction plans]				= \$ -		\$ -
<b>MAINTENANCE (35% of Construction BMPs)</b>				= \$ 21,015.75		\$ 21,015.75
<b>Section 1 Subtotal</b>				= \$ 307,610.75		\$ 92,979.95

\* - Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED)

**SECTION 2 - PUBLIC IMPROVEMENTS**

<b>ROADWAY IMPROVEMENTS</b>						
Construction Traffic Control	1	LS	\$ 5,000.00	= \$ 5,000.00	80.00%	\$ 1,000.00
Aggregate Base Course (135 lbs/cf)	8,020	Tons	\$ 28.00	= \$ 224,560.00	80.00%	\$ 44,912.00
Aggregate Base Course (135 lbs/cf)		CY	\$ 50.00	= \$ -		\$ -
Asphalt Pavement (3" thick)		SY	\$ 14.00	= \$ -		\$ -
Asphalt Pavement (4" thick)		SY	\$ 19.00	= \$ -		\$ -
Asphalt Pavement (6" thick)		SY	\$ 29.00	= \$ -		\$ -
Asphalt Pavement (147 lbs/cf) 6" thick	7,410	Tons	\$ 88.00	= \$ 652,080.00	80.00%	\$ 130,416.00
Raised Median, Paved		SF	\$ 8.00	= \$ -		\$ -
Regulatory Sign/Advisory Sign	14	EA	\$ 300.00	= \$ 4,200.00		\$ 4,200.00
Guide/Street Name Sign	28	EA		= \$ -		\$ -
Epoxy Pavement Marking		SF	\$ 13.00	= \$ -		\$ -
Thermoplastic Pavement Marking		SF	\$ 23.00	= \$ -		\$ -
Barricade - Type 3	2	EA	\$ 200.00	= \$ 400.00		\$ 400.00
Delineator - Type 1		EA	\$ 24.00	= \$ -		\$ -
Curb and Gutter, Type A (6" Vertical)	2,100	LF	\$ 30.00	= \$ 63,000.00	80.00%	\$ 12,600.00
Curb and Gutter, Type B (Median)		LF	\$ 30.00	= \$ -		\$ -
Curb and Gutter, Type C (Ramp)	12,000	LF	\$ 30.00	= \$ 360,000.00	80.00%	\$ 72,000.00
4" Sidewalk (common areas only)		SY	\$ 48.00	= \$ -		\$ -
5" Sidewalk	7,820	SY	\$ 60.00	= \$ 469,200.00		\$ 469,200.00
6" Sidewalk		SY	\$ 72.00	= \$ -		\$ -
8" Sidewalk		SY	\$ 96.00	= \$ -		\$ -
Pedestrian Ramp	40	EA	\$ 1,150.00	= \$ 46,000.00		\$ 46,000.00
Cross Pan, local (6" thick, 6' wide to include return)	320	LF	\$ 61.00	= \$ 19,520.00	80.00%	\$ 3,904.00
Cross Pan, collector (9" thick, 8' wide to include return)		LF	\$ 92.00	= \$ -		\$ -
Curb Chase		EA	\$ 1,480.00	= \$ -		\$ -
Guardrail Type 3 (W-Beam)		LF	\$ 49.00	= \$ -		\$ -
Guardrail Type 7 (Concrete)		LF	\$ 72.00	= \$ -		\$ -
Guardrail End Anchorage		EA	\$ 2,098.00	= \$ -		\$ -
Guardrail Impact Attenuator		EA	\$ 3,767.00	= \$ -		\$ -
Sound Barrier Fence (CMU block, 6' high)		LF	\$ 78.00	= \$ -		\$ -
Sound Barrier Fence (panels, 6' high)		LF	\$ 80.00	= \$ -		\$ -
Electrical Conduit, Size =		LF	\$ 16.00	= \$ -		\$ -
Traffic Signal, complete intersection		EA	\$ 425,000	= \$ -		\$ -

PROJECT INFORMATION			
1/22/2020		SF 18-019	
Project Name: Lorson Ranch East Filing No. 2		Date: December 19, 2019	PCD File No.

Description	Quantity	Units	Unit Cost	Total	(with Pre-Plat Construction)	
					% Complete	Remaining
[insert items not listed but part of construction plans]						
<b>STORM DRAIN IMPROVEMENTS</b>						
Concrete Box Culvert (M Standard), Size ( W x H )		LF				
18" Reinforced Concrete Pipe	160	LF	\$ 65.00	10,400.00	80.00%	2,080.00
24" Reinforced Concrete Pipe	660	LF	\$ 78.00	51,480.00	80.00%	10,296.00
30" Reinforced Concrete Pipe	400	LF	\$ 97.00	38,800.00	80.00%	7,760.00
36" Reinforced Concrete Pipe	42	LF	\$ 120.00	5,040.00	80.00%	1,008.00
42" Reinforced Concrete Pipe		LF	\$ 160.00			
48" Reinforced Concrete Pipe	175	LF	\$ 195.00	34,125.00	80.00%	6,825.00
54" Reinforced Concrete Pipe	460	LF	\$ 245.00	112,700.00	80.00%	22,540.00
60" Reinforced Concrete Pipe		LF	\$ 288.00			
66" Reinforced Concrete Pipe		LF	\$ 332.00			
72" Reinforced Concrete Pipe		LF	\$ 380.00			
18" Corrugated Steel Pipe	90	LF	\$ 84.00	7,560.00	80.00%	1,512.00
24" Corrugated Steel Pipe		LF	\$ 96.00			
30" Corrugated Steel Pipe		LF	\$ 122.00			
36" Corrugated Steel Pipe	48	LF	\$ 147.00	7,056.00	80.00%	1,411.20
42" Corrugated Steel Pipe		LF	\$ 168.00			
48" Corrugated Steel Pipe		LF	\$ 178.00			
54" Corrugated Steel Pipe		LF	\$ 260.00			
60" Corrugated Steel Pipe		LF	\$ 280.00			
66" Corrugated Steel Pipe		LF	\$ 340.00			
72" Corrugated Steel Pipe		LF	\$ 400.00			
78" Corrugated Steel Pipe		LF	\$ 460.00			
84" Corrugated Steel Pipe		LF	\$ 550.00			
Flared End Section (FES) RCP Size = (unit cost = 6x pipe unit cost)		EA				
Flared End Section (FES) CSP Size = (unit cost = 6x pipe unit cost)		EA				
End Treatment- Headwall		EA				
End Treatment- Wingwall		EA				
End Treatment - Cutoff Wall		EA				
Curb Inlet (Type R) L=5', Depth < 5'		EA	\$ 5,542.00			
Curb Inlet (Type R) L=5', 5' ≤ Depth < 10'	2	EA	\$ 7,188.00	14,376.00	80.00%	2,875.20
Curb Inlet (Type R) L=5', 10' ≤ Depth < 15'		EA	\$ 8,345.00			
Curb Inlet (Type R) L=10', Depth < 5'		EA	\$ 7,627.00			
Curb Inlet (Type R) L=10', 5' ≤ Depth < 10'	6	EA	\$ 7,861.00	47,166.00	80.00%	9,433.20
Curb Inlet (Type R) L=10', 10' ≤ Depth < 15'		EA	\$ 9,841.00			
Curb Inlet (Type R) L=15', Depth < 5'		EA	\$ 9,918.00			
Curb Inlet (Type R) L=15', 5' ≤ Depth < 10'	1	EA	\$ 10,633.00	10,633.00	80.00%	2,126.60
Curb Inlet (Type R) L=15', 10' ≤ Depth < 15'		EA	\$ 11,627.00			
Curb Inlet (Type R) L=20', Depth < 5'		EA	\$ 10,570.00			
Curb Inlet (Type R) L=20', 5' ≤ Depth < 10'	2	EA	\$ 11,667.00	23,334.00	80.00%	4,666.80
Grated Inlet (Type C), Depth < 5'		EA	\$ 4,640.00			
Grated Inlet (Type D), Depth < 5'		EA	\$ 5,731.00			
Storm Sewer Manhole, Box Base		EA	\$ 11,627.00			
Storm Sewer Manhole, Slab Base	9	EA	\$ 6,395.00	57,555.00	80.00%	11,511.00
Geotextile (Erosion Control)	250	SY	\$ 6.00	1,500.00	80.00%	300.00
Rip Rap, #50 size from 6" to 24"	15	Tons	\$ 80.00	1,200.00	80.00%	240.00
Rip Rap, Grouted		Tons	\$ 95.00			
Drainage Channel Construction, Size ( W x H )		LF				
Drainage Channel Lining, Concrete		CY	\$ 570.00			
Drainage Channel Lining, Rip Rap		CY	\$ 112.00			
Drainage Channel Lining, Grass		AC	\$ 1,469.00			
Drainage Channel Lining, Other Stabilization						
[insert items not listed but part of construction plans]						
				<b>Section 2 Subtotal</b>	<b>= \$ 2,266,885.00</b>	<b>\$ 869,217.00</b>

\* - Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED)



PROJECT INFORMATION		
<b>Project Name:</b> Lorson Ranch East Filing No. 2	<b>Date:</b> December 19, 2019	<b>SF 18-019</b> <b>PCD File No.</b>

Description	Quantity	Units	Unit Cost	Total	(with Pre-Plat Construction)	
					% Complete	Remaining
AS-BUILT PLANS (Public Improvements inc. Permanent WQCV BMPs)		LS	\$ 6,000.00	= \$ 6,000.00	\$	6,000.00
POND/BMP CERTIFICATION (inc. elevations and volume calculations)		LS		= \$ -	\$	-
<b>Total Construction Financial Assurance</b>					<b>\$</b>	<b>4,380,213.75</b>
(Sum of all section subtotals plus as-builts and pond/BMP certification)						
<b>Total Remaining Construction Financial Assurance (with Pre-Plat Construction)</b>					<b>\$</b>	<b>1,003,196.95</b>
(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)						
<b>Total Defect Warranty Financial Assurance</b>					<b>\$</b>	<b>498,667.00</b>
(20% of all items identified as (*). To be collateralized at time of preliminary acceptance)						



**Approvals**  
I hereby certify that this is an accurate and complete estimate of cost for the work as shown on the Grading and Erosion Control Plan and Construction Drawings associated with the Project.

\_\_\_\_\_  
Engineer (P.E. Seal Required)

*[Signature]* \_\_\_\_\_  
Approved by Owner / Applicant

\_\_\_\_\_  
Date: 1/22/20

\_\_\_\_\_  
Approved by El Paso County Engineer / ECM Administrator

**Approved**

**By: Elizabeth Nijkamp**

**Date: 01/22/2020**

El Paso County Planning & Community Development

**EXHIBIT B**

**Financial Assurance Estimate for Regional Drainage Improvements**

2019 Financial Assurance Estimate Form  
with pre-plat construction)

Updated: 7/16/2019

PROJECT INFORMATION		
East Fork Jimmy Camp Creek at Creekside at Lorson Rd	7/26/2019	SF 18-019
Project Name	Date	PCD File No.

Description	Quantity	Units	Unit Cost	Total	(with Pre-Plat Construction)	
					% Complete	Remaining
<b>SECTION 1 - GRADING AND EROSION CONTROL (Construction and Permanent BMPs)</b>						
* Earthwork						
less than 1,000; \$5,300 min		CY	\$ 8.00	= \$ -		\$ -
1,000-5,000; \$8,000 min		CY	\$ 6.00	= \$ -		\$ -
5,001-20,000; \$30,000 min	17,500	CY	\$ 5.00	= \$ 87,500.00		\$ 87,500.00
20,001-50,000; \$100,000 min		CY	\$ 3.50	= \$ -		\$ -
50,001-200,000; \$175,000 min		CY	\$ 2.50	= \$ -		\$ -
greater than 200,000; \$500,000 min		CY	\$ 2.00	= \$ -		\$ -
* Permanent Seeding (inc. noxious weed mgmnt.)	14.4	AC	\$ 800.00	= \$ 11,520.00		\$ 11,520.00
* Mulching		AC	\$ 750.00	= \$ -		\$ -
* Permanent Erosion Control Blanket	2.2	SY	\$ 6.00	= \$ 13.20		\$ 13.20
* Permanent Pond/BMP Construction		CY	\$ 20.00	= \$ -		\$ -
* Permanent Pond/BMP (Spillway)		EA		= \$ -		\$ -
* Permanent Pond/BMP (Outlet Structure)		EA		= \$ -		\$ -
Safety Fence		LF	\$ 3.00	= \$ -		\$ -
Temporary Erosion Control Blanket		SY	\$ 3.00	= \$ -		\$ -
Vehicle Tracking Control	1	EA	\$ 2,370.00	= \$ 2,370.00		\$ 2,370.00
Silt Fence	0	LF	\$ 2.50	= \$ -		\$ -
Temporary Seeding	12.5	AC	\$ 628.00	= \$ 7,850.00		\$ 7,850.00
Temporary Mulch		AC	\$ 750.00	= \$ -		\$ -
Erosion Bales		EA	\$ 25.00	= \$ -		\$ -
Erosion Logs/Straw Waddle	8,000	LF	\$ 5.00	= \$ 40,000.00		\$ 40,000.00
Rock Check Dams		EA	\$ 500.00	= \$ -		\$ -
Inlet Protection		EA	\$ 167.00	= \$ -		\$ -
Sediment Basin		EA	\$ 1,762.00	= \$ -		\$ -
Concrete Washout Basin		EA	\$ 900.00	= \$ -		\$ -
<i>[insert items not listed but part of construction plans]</i>						
MAINTENANCE (35% of Construction BMPs)				= \$ 17,577.00		\$ 17,577.00
Section 1 Subtotal				= \$ 166,830.20		\$ 166,830.20

\* - Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED)

**SECTION 2 - PUBLIC IMPROVEMENTS**

<b>ROADWAY IMPROVEMENTS</b>						
Construction Traffic Control		LS		= \$ -		\$ -
Aggregate Base Course (135 lbs/cf)		Tons	\$ 28.00	= \$ -		\$ -
Aggregate Base Course (135 lbs/cf)		CY	\$ 50.00	= \$ -		\$ -
Asphalt Pavement (3" thick)		SY	\$ 14.00	= \$ -		\$ -
Asphalt Pavement (4" thick)		SY	\$ 19.00	= \$ -		\$ -
Asphalt Pavement (6" thick)		SY	\$ 29.00	= \$ -		\$ -
Asphalt Pavement (147 lbs/cf) _" thick		Tons	\$ 88.00	= \$ -		\$ -
Raised Median, Paved		SF	\$ 8.00	= \$ -		\$ -
Regulatory Sign/Advisory Sign		EA	\$ 300.00	= \$ -		\$ -
Guide/Street Name Sign		EA		= \$ -		\$ -
Epoxy Pavement Marking		SF	\$ 13.00	= \$ -		\$ -
Thermoplastic Pavement Marking		SF	\$ 23.00	= \$ -		\$ -
Barricade - Type 3		EA	\$ 200.00	= \$ -		\$ -
Delineator - Type I		EA	\$ 24.00	= \$ -		\$ -
Curb and Gutter, Type A (6" Vertical)		LF	\$ 30.00	= \$ -		\$ -
Curb and Gutter, Type B (Median)		LF	\$ 30.00	= \$ -		\$ -
Curb and Gutter, Type C (Ramp)		LF	\$ 30.00	= \$ -		\$ -
4" Sidewalk (common areas only)		SY	\$ 48.00	= \$ -		\$ -
5" Sidewalk		SY	\$ 60.00	= \$ -		\$ -
6" Sidewalk		SY	\$ 72.00	= \$ -		\$ -
8" Sidewalk		SY	\$ 96.00	= \$ -		\$ -
Pedestrian Ramp		EA	\$ 1,150.00	= \$ -		\$ -
Cross Pan, local (8" thick, 6' wide to include return)		LF	\$ 61.00	= \$ -		\$ -
Cross Pan, collector (9" thick, 8' wide to include return)		LF	\$ 92.00	= \$ -		\$ -
Curb Chase		EA	\$ 1,480.00	= \$ -		\$ -
Guardrail Type 3 (W-Beam)		LF	\$ 49.00	= \$ -		\$ -
Guardrail Type 7 (Concrete)		LF	\$ 72.00	= \$ -		\$ -
Guardrail End Anchorage		EA	\$ 2,098.00	= \$ -		\$ -
Guardrail Impact Attenuator		EA	\$ 3,767.00	= \$ -		\$ -
Sound Barrier Fence (CMU block, 6' high)		LF	\$ 78.00	= \$ -		\$ -
Sound Barrier Fence (panels, 6' high)		LF	\$ 80.00	= \$ -		\$ -
Electrical Conduit, Size =		LF	\$ 16.00	= \$ -		\$ -
Traffic Signal, complete intersection		EA	\$ 425,000	= \$ -		\$ -

Description	Quantity	Units	Unit Cost	Total	(with Pre-Plat Construction)	
					% Complete	Remaining
[insert items not listed but part of construction plans]				\$ -		\$ -
<b>STORM DRAIN IMPROVEMENTS</b>						
Concrete Box Culvert (M Standard), Size ( W x H )		LF		\$ -		\$ -
18" Reinforced Concrete Pipe		LF	\$ 65.00	\$ -		\$ -
24" Reinforced Concrete Pipe		LF	\$ 78.00	\$ -		\$ -
30" Reinforced Concrete Pipe		LF	\$ 97.00	\$ -		\$ -
36" Reinforced Concrete Pipe		LF	\$ 120.00	\$ -		\$ -
42" Reinforced Concrete Pipe		LF	\$ 160.00	\$ -		\$ -
48" Reinforced Concrete Pipe		LF	\$ 195.00	\$ -		\$ -
54" Reinforced Concrete Pipe		LF	\$ 245.00	\$ -		\$ -
60" Reinforced Concrete Pipe		LF	\$ 288.00	\$ -		\$ -
66" Reinforced Concrete Pipe		LF	\$ 332.00	\$ -		\$ -
72" Reinforced Concrete Pipe		LF	\$ 380.00	\$ -		\$ -
18" Corrugated Steel Pipe		LF	\$ 84.00	\$ -		\$ -
24" Corrugated Steel Pipe		LF	\$ 96.00	\$ -		\$ -
30" Corrugated Steel Pipe		LF	\$ 122.00	\$ -		\$ -
36" Corrugated Steel Pipe		LF	\$ 147.00	\$ -		\$ -
42" Corrugated Steel Pipe		LF	\$ 168.00	\$ -		\$ -
48" Corrugated Steel Pipe		LF	\$ 178.00	\$ -		\$ -
54" Corrugated Steel Pipe		LF	\$ 260.00	\$ -		\$ -
60" Corrugated Steel Pipe		LF	\$ 280.00	\$ -		\$ -
66" Corrugated Steel Pipe		LF	\$ 340.00	\$ -		\$ -
72" Corrugated Steel Pipe		LF	\$ 400.00	\$ -		\$ -
78" Corrugated Steel Pipe		LF	\$ 460.00	\$ -		\$ -
84" Corrugated Steel Pipe		LF	\$ 550.00	\$ -		\$ -
Flared End Section (FES) RCP Size = (unit cost = 6x pipe unit cost)		EA		\$ -		\$ -
Flared End Section (FES) CSP Size = (unit cost = 6x pipe unit cost)		EA		\$ -		\$ -
End Treatment- Headwall		EA		\$ -		\$ -
End Treatment- Wingwall		EA		\$ -		\$ -
End Treatment - Cutoff Wall		EA		\$ -		\$ -
Curb Inlet (Type R) L=5', Depth < 5'		EA	\$ 5,542.00	\$ -		\$ -
Curb Inlet (Type R) L=5', 5' ≤ Depth < 10'		EA	\$ 7,188.00	\$ -		\$ -
Curb Inlet (Type R) L=5', 10' ≤ Depth < 15'		EA	\$ 8,345.00	\$ -		\$ -
Curb Inlet (Type R) L=10', Depth < 5'		EA	\$ 7,827.00	\$ -		\$ -
Curb Inlet (Type R) L=10', 5' ≤ Depth < 10'		EA	\$ 7,861.00	\$ -		\$ -
Curb Inlet (Type R) L=10', 10' ≤ Depth < 15'		EA	\$ 9,841.00	\$ -		\$ -
Curb Inlet (Type R) L=15', Depth < 5'		EA	\$ 9,918.00	\$ -		\$ -
Curb Inlet (Type R) L=15', 5' ≤ Depth < 10'		EA	\$ 10,633.00	\$ -		\$ -
Curb Inlet (Type R) L=15', 10' ≤ Depth < 15'		EA	\$ 11,827.00	\$ -		\$ -
Curb Inlet (Type R) L=20', Depth < 5'		EA	\$ 10,570.00	\$ -		\$ -
Curb Inlet (Type R) L=20', 5' ≤ Depth < 10'		EA	\$ 11,867.00	\$ -		\$ -
Grated Inlet (Type C), Depth < 5'		EA	\$ 4,640.00	\$ -		\$ -
Grated Inlet (Type D), Depth < 5'		EA	\$ 5,731.00	\$ -		\$ -
Storm Sewer Manhole, Box Base		EA	\$ 11,827.00	\$ -		\$ -
Storm Sewer Manhole, Slab Base		EA	\$ 6,395.00	\$ -		\$ -
Geotextile (Erosion Control)		SY	\$ 6.00	\$ -		\$ -
Rip Rap, d50 size from 6" to 24"	23,180	Tons	\$ 80.00	\$ 1,854,400.00		\$ 1,854,400.00
Rip Rap, Grouted		Tons	\$ 95.00	\$ -		\$ -
Drainage Channel Construction, Size ( W x H )		LF		\$ -		\$ -
Drainage Channel Lining, Concrete		CY	\$ 570.00	\$ -		\$ -
Drainage Channel Lining, Rip Rap		CY	\$ 112.00	\$ -		\$ -
Drainage Channel Lining, Grass		AC	\$ 1,469.00	\$ -		\$ -
Drainage Channel Lining, Other Stabilization				\$ -		\$ -
sheet pile check structures	1,670	SF	\$ 32.00	\$ 53,440.00		\$ 53,440.00
[insert items not listed but part of construction plans]				\$ -		\$ -
Section 2 Subtotal				\$ 1,907,840.00		\$ 1,907,840.00

\* - Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED)



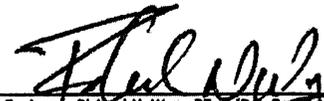
**PROJECT INFORMATION**

<b>East Fork Jimmy Camp Creek at Creekside at Lorson Rd</b>	<b>7/26/2019</b>	<b>XX-XX-XXXX</b>
<b>Project Name</b>	<b>Date</b>	<b>PCD File No.</b>

Description	Quantity	Units	Unit Cost	Total	(with Pre-Plat Construction)	
					% Complete	Remaining
AS-BUILT PLANS (Public improvements inc. Permanent WQCV BMPs)		LS	= \$	-	\$	-
POND/BMP CERTIFICATION (inc. elevations and volume calculations)		LS	= \$	-	\$	-
<b>Total Construction Financial Assurance</b>					<b>\$</b>	<b>2,074,670.20</b>
<i>(Sum of all section subtotals plus as-builts and pond/BMP certification)</i>						
<b>Total Remaining Construction Financial Assurance (with Pre-Plat Construction)</b>					<b>\$</b>	<b>2,074,670.20</b>
<i>(Sum of all section totals less credit for items complete plus as-builts and pond/BMP certification)</i>						
<b>Total Defect Warranty Financial Assurance</b>					<b>\$</b>	<b>401,374.64</b>
<i>(20% of all items identified as (*). To be collateralized at time of preliminary acceptance)</i>						

**Approvals**

I hereby certify that this is an accurate and complete estimate of costs for the work as shown on the Grading and Erosion Control Plan and Construction Drawings associated with the Project.

  
 \_\_\_\_\_  
 Engineer Richard N. Wray, PE (P.E. Seal Required)  
 Kiowa Engineering Corporation

Approved by Owner / Applicant

11/17/20

Date

Approved by El Paso County Engineer / ECM Administrator

**Approved**

**By: Elizabeth Nijkamp**

**Date: 01/22/2020**

El Paso County Planning & Community Development

