

## Bituminous Mixture Test Results

1901 Sharp Point Drive  
 Fort Collins, Colorado 80525  
 Telephone No.: (970) 658 - 4405  
 Fax No.: (970) 484 - 0454

**Client Name:** Signature Construction LLC

**Address:** 720 3rd Ave SW  
 Camel, IN 46032-2036

**Attn.:** Matt Boyle

**Project Name:** Lakeview on the Rise Apartment Development

**Location:** 0  
 0  
 Lift Designation: 0

**Project No.:** 20181040

**Mix Source:** Connell

**Plant/Pit:** Timnath connell asphalt plant **Report#** .0315

**Mix Type:** S75PG(64-22)L

**Sampled By:** Connell **Tons:** 0

**Truck/Ticket No.:** 0 0

**Reviewed By:** Craig Nelson

**Date of Report:** 8/28/19

**Date:** 8/6/19

**Time:** 12:00 AM

Department Manager

**Test Procedures:**

AASHTO T 164, Quantitative Extraction of Bitumen from Bituminous Paving Mixtures,

Method   B  

  X   CP L5120, Determination of the Asphalt Binder Content of Bituminous Mixtures by the Ignition Metho

Method   A  

**Laboratory Testing Information**

  0.00   Calibration factor   No   Temp. compensation factor used   0.00   Moisture content, %   538   Test temp, C  
  2239   Sample Mass, gm   Yes   AC measured on external scale

Corrected Bituminous Content, %  
 AASHTO T 164 **4.98** Ignition Method  
 Specification limits: 5.10 +/- 0.3  
 Sieve Analysis of:   X   Ignited Mineral Agg.  
                   Extracted Agg.  
                   Cold Belt Combined

Physical Properties of Bituminous Mixtures:  
  AASHTO T 245   @            Blows per Side  
  or CP L5106 (Hveem)    
  or CP L5115              N(design) gyrations  
                   Avg. dia. of mold, mm            t. ht, mm:           

Sieve Size	Accumulative % Passing	Specification			
		Job Mix		Master Band	
		Min.	Max.	Min.	Max.
1-1/2"					
1"					
3/4"	100	100	100	100	
1/2"	90	90	100	90-100	
3/8"	83	75	87	---	
1/4"					
#4	67	58	68	---	
#8	51	44	54	28-58	
#10					
#16	38			---	
#30	25	20	28	---	
#40					
#50	16			---	
#80					
#100	10			---	
#200	6.5	4.2	8.2	2.0-10.0	

Property	CDOT Standard	Avg. of Specimens	Specification
Bulk Specific Gravity	CP 44		
Bulk Density (pcf)	CP 44		
Theoretical Max. Specific Gravity	CP 51	2.462	
Theoretical Density (pcf)	CP 51	153.6	
Air Voids (%)	CP 44		
Voids Filled (%)	AI SP-2		
Voids Min. Aggregate (%)	T 269		
Stability (pounds)	T 245		
Flow (1/100 inch)	T 245		
Temperature of mix sampled (F)			
Ambient Temp. @ sampling (F)			
Hveem Stability	CP L5106		
Lottman Test:	CP L5109		
Conditioned/Dry Strength, psi			
Tensile Strength Ratio (TSR), %			
Fine Aggregate Angularity, %	T 304		

Comments: ( ) Denotes outside specification limits shown above.  
 Sampled according to CP55-06, Method B  
 Distribution: Client

## **Distribution Page**

**Report Number:** 20181040.0315  
**Service Date:** 08/23/19  
**Report Date:** 08/28/19  
**Task:** Asphalt

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**Terracon**  
1901 Sharp Point Dr, Ste C  
Fort Collins, CO 80525-4429  
970-484-0359

## **Distribution List**

- (1) Signature Construction LLC, Matt Boyle
- (1) Connell Resources Inc, Jeff Laugel
- (1) Martin Marietta Materials Inc, Bill Meek
- (1) Martin Marietta Materials Inc, Matt Hysen
- (1) Signature Construction LLC, Taylor Elizalde
- (1) Signature Construction LLC, Trevor Rine
- (1) Terracon Consultants, Inc., Eric Bernhardt
- (1) Total Concrete Services Inc, Jeff Cast
- (1) Total Concrete Services Inc, John Montanez