

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: 100' south of entrance off of 287 turn lane
 0

Lift Designation: Bottom

Project No.: 20181040

Date of Report: 9/12/19

Mix Source: Connell

Plant/Pit: Timnath connell asphalt plant **Report#** .0358

Mix Type: S75PG(64-22)L

Sampled By: Zamora **Tons:** 475

Date: 9/10/19

Truck/Ticket No.: J5 5962

Time: 11:00 AM

Reviewed By: Craig Nelson

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 Method Method A

Laboratory Testing Information

 0.00 Calibration factor No Temp. compensation factor used 0.00 Moisture content, % 538 Test temp, C
 2277 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 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	65	58	68	---	
#8	49	44	54	28-58	
#10					
#16	35			---	
#30	24	20	28	---	
#40					
#50	15			---	
#80					
#100	9			---	
#200	6.2	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	2.476	
Theoretical Density (pcf)	CP 51	154.5	
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: 20181040.0358
Service Date: 09/10/19
Report Date: 09/12/19
Task: Asphalt

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