



construction managers

general contractors

design builders

**SUBMITTAL REVIEW**  
**Project # 417 The Residences at Echelon**

Date: September 11, 2017

Submittal Number: 31-2000-01-a  
Project Backfill - Rock

Sequence Number: 11

Subcontractor: Kat Excavation  
Bart Fisher

Submit To: NSPJ Architects  
Tim Hauschild  
Clint Evans

SUBMITTAL FOR APPROVAL	
Job Name/No: <u>417 The Residences at Echelon</u>	
<input checked="" type="checkbox"/> REVIEWED	<input type="checkbox"/> REVISE & RESUBMIT
<input type="checkbox"/> REVIEWED& NOTED	<input type="checkbox"/> REJECTED
<small>Submittal received for general compliance with the Contract Documents. Contractor's review does not relieve sub/vendor of responsibility for dimension, quantities, accuracy or completion of submittals or from any responsibilities required by terms and conditions of Subcontract/PO with Luke Draily Construction Co., Inc.. Sub/Vendors shall follow all manufacturer installation instructions. Installing contractor shall be responsible to coordinate with trades for hookup, supports, routing, etc.</small>	
By: <u>JDW</u>	Date: _____

Engineering Solutions	Shop Drawing Review
Project: <u>Echelon</u>	Date: <u>11/2/17</u>
Submittal #: <u>Backfill</u>	By: <u>MIS</u>
<input checked="" type="checkbox"/> APPROVED	<input type="checkbox"/> REJECTED
<input type="checkbox"/> APPROVED AS NOTED	



**Gary Smith**  
Aggregate Sales  
APAC – Kansas, Inc.  
P.O. 23910  
Overland Park, KS 66283  
Tel: 913.814.6700, Fax: 913.814.6734  
Cell: 913.238.0877

August 30, 2017

Mr. Bart Fisher  
KAT Excavation, Inc.  
309 Oak Street  
Bates City, MO 64011

RE: Aggregate Submittal Proposal  
Residence of Echelon  
150 Hwy & 291 Hwy South  
Lee's Summit, MO

Dear Bart,

Per your request, please find attached our Aggregate Sieve Gradation Submittals on the following materials we propose to supply for the above noted project;

MoDOT Type 5 AGGREGATE BASE, Proctor test results attached  
2" x 4" CLEAN AGGREGATE  
1" x 3/16" CLEAN

Base

Construction Entrances

Embedment

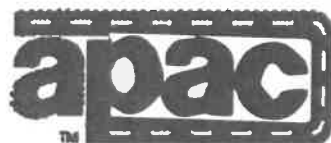
No sieve gradation reports are being submitted on the 18" Rip Rap. Due to the size and nature of this product, inspection and approval of this material shall be done visually by a representative of the general contractor or project owner at the quarry site prior to shipment.

Please call with any questions or concerns.

Regards,

Gary V. Smith  
Apac KS Kansas City Division  
913.238.0877

**Safety First** *Always*



Harrisonville Quarry  
22306 S State Rte 291  
Harrisonville, MO 64701  
816-380-5170

### 1" x 0 (Scalped)-Production Spilt

Procedure	Sieve/Test	Average	Unit	MODOT Type 5 Base - 33065
	1" (25mm)	100	%	100-100
	3/4" (19mm)	95	%	
	1/2" (12.5mm)	74	%	60-90
	3/8" (9.5mm)	61	%	
	#4 (4.75mm)	39	%	35-60
	#8 (2.36mm)	27	%	
	#16 (1.18mm)	20	%	
	#30 (0.6mm)	16	%	10-35
	#50 (0.3mm)	14	%	
	#100 (0.15mm)	12	%	
	#200 (75µm)	10.8	%	0-15
	Pan	0.0	%	



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### 1" x 0 (Finish)-Production Split

Procedure	Sieve/Test	Average	Unit	MODOT Type 5 Base - 33065
	Max Dry Density (Proctor-Std)	132.3	PCF	
	Optimum Moisture	8.6	%	



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### Production Split-4" x 2"

Procedure	Sieve/Test	Average	Unit	2"X 4" - 31085
	4" (100mm)	100	%	
	3" (75mm)	100	%	
	2 1/2" (63mm)	97	%	
	2" (50mm)	80	%	
	1 1/2" (37.5mm)	52	%	
	1" (25mm)	10	%	
	3/4" (19mm)	2	%	
	1/2" (12.5mm)	0	%	
	3/8" (9.5mm)	0	%	
	#4 (4.75mm)	0	%	
	#8 (2.36mm)	0	%	
	Pan	0.0	%	



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### Production Spilt-1" x 3/16"

Procedure	Sieve/Test	Average	Unit	1" x 1/8" - 31560
	1" (25mm)	100	%	95-100
	3/4" (19mm)	92	%	75-100
	1/2" (12.5mm)	60	%	40-70
	3/8" (9.5mm)	40	%	20-50
	#4 (4.75mm)	9	%	0-20
	#8 (2.36mm)	4	%	0-10
	#16 (1.18mm)	3	%	
	#30 (0.6mm)	3	%	
	#50 (0.3mm)	3	%	
	#100 (0.15mm)	3	%	
	#200 (75µm)	2.6	%	0-6
	Pan	0.0	%	