



September 13, 2019

Mr. Chris Clark
Project Manager
A.J. Brown, Inc.
635 Trade Center Boulevard
Chesterfield, Missouri 63005

RE: Special Inspection Report No. 2
Goddard School
3395 NE Ralph Powell Road
Lee's Summit, Missouri
Report Period: August 17, 2019 to August 31, 2019
Building Permit #PRCOM20190683
Geotechnology, Inc. Project No.: J034913.01

Dear Mr. Clark:

This letter with attachments will constitute our Special Inspection transmittal for the above referenced project. Representatives of Geotechnology, Inc. have provided field observation and testing services for foundation bearing materials and reinforced concrete during the report period. Our services have been provided on a part-time basis as scheduled by representatives of A.J. Brown, Inc. The compliance of materials or work not observed by our personnel is not addressed, or implied, by this or any previous report.

Summary of Activities

Foundation Bearing Materials

The bearing materials in the bases of the foundation excavations were observed at the following locations:

August 19	- Interior spread footings at Grids A/3, B/5, B/7, B/10, B/12, C/3, D/4, D/5, D/8, D/9, D/11, D/13, and D/14
August 20	- Perimeter strip footings at Line 1, 14 feet east of Line A to Line C.5; 14 feet east of Line A between Line 1 and Line 15; and Line 15, 14 feet east of Line A to Line C.5
August 28	- Perimeter strip footings at Line 1, C to C.5; Line C.5, 1 to 2; Line 2, C.5 to 30 feet west of Line D; 30 feet west of Line D between Line 2 and 16; and Line 16, C.5 to 30 feet west of Line D

The perimeter strip footings were undercut approximately 2 feet in depth to bear on native limestone and backfilled to design bottom of footing elevation with either concrete or flowable fill. The bearing materials for the interior spread footings consisted of crushed limestone engineered fill. The bearing materials were evaluated with respect to the 3,500 pounds per square foot design bearing pressure.

Reinforced Concrete

Placement of the reinforcing steel, anchor bolts, and concrete within the referenced foundation excavations was observed. Field tests were performed and compressive strength test specimens cast with concrete placed in the foundation excavations. The recent concrete compressive strength test results are enclosed.

Status of Compliance

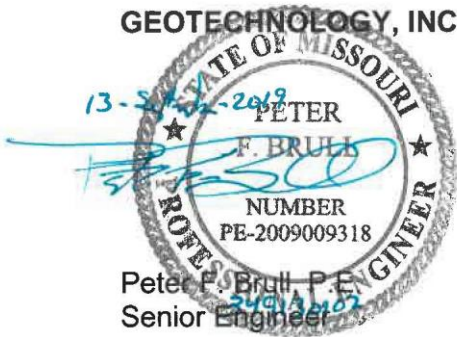
The specific items discussed above in this report appeared to be in general compliance with the contract documents.

Closure

The results of our field observations and testing were reported to authorized personnel during our site visits. If you have any questions regarding this report, or if we may be of further service, please contact us.

Respectfully submitted,

GEOTECHNOLOGY, INC.



Peter F. Brull, P.E.
Senior Engineer

Steve Damron
CMT Department Manager

Attachments: Concrete Cylinder Test Results

cc: Mr. Ryan Elam – City of Lee's Summit
Mr. Sara Beck – City of Lee's Summit
Mr. Jim Hostler – A.J. Brown, Inc.
Geotechnology S.I. File



Report Date: 08/28/2019

Client: A.J. Brown Inc.

Project: J034913.01

Goddard School Lee's Summit

Lee's Summit, MO

Concrete Cylinder Test Results

General Contractor: A.J. Brown, Inc.

Temperature/Weather: 91°F Sunny

Site Contact: Jim Hostler

Contractor: Beacon Contracting, LLC

Set No.: 1

Sample Location: Spread footing at Grid B/12

Cast Date: 08/19/2019

FIELD DATA (ASTM C31)

Slump, ASTM C143 (in.):	3.75	Supplier:	Geiger Ready-Mix
Air Content, ASTM C231 (%):	6.2	Mix Design:	A4UC517V445
Conc. Temp., ASTM C1064 (°F):	89	Truck/Ticket No.:	344/886958
Unit Weight, ASTM C138 (p.c.f.):	141.6	Batch Time:	13:23:00
Yield, ASTM C138 (ft. ³):	--	Sample Time:	14:00:00
Truck/Accum. Quantity (yd. ³):	10/10	Mixing Time (min.):	37
Sampled From, ASTM C172:	Truck Chute	Initial Curing Method:	Sealed
Specified Strength (psi):	3,000	Cylinders Cast By:	Tresor V. Vesolo-Mouanda
Average Strength (psi):	3,730	Received in Lab:	08/20/2019

Laboratory Data (ASTM C39 / C1231 / C617)

Cylinder ID	Cylinder Weight (lbs.)	Cross Sec. Area (sq.in.)	Cylinder Diameter (in.)	Maximum Load (lbs.)	Compressive Strength (psi)	Fracture/Capping Type *	Test Date	Cylinder Test Age (day)
7065-1-1	--	12.57	4.00	46880	3730	2/N	08/26/2019	7
7065-1-2	--	--	--	--	--	--	09/16/2019	28
7065-1-3	--	--	--	--	--	--	09/16/2019	28
7065-1-4	--	--	--	--	--	--	09/16/2019	28

* Fracture type as shown in Figure 2, ASTM C39 / Capping type: N - Neoprene Pads; B - Bonded; G - Ground

Remarks:

Reviewed by:

Peter F. Brull

CC: Clark, Chris (A.J. Brown Inc.) (e)

Hostler, James (A.J. Brown Inc.) (e)

Notice: The Geotechnology representative is on site solely to observe specific operations and report opinions to our client. The presence and activities of the Geotechnology field representative do not relieve the contractor's obligation to meet contractual requirements. The contractor retains sole responsibility for site safety and the methods and sequences of construction.



Report Date: 08/29/2019

Client: A.J. Brown Inc.

Project: J034913.01

Goddard School Lee's Summit

Lee's Summit, MO

Concrete Cylinder Test Results

General Contractor: A.J. Brown, Inc.

Temperature/Weather: 95°F Sunny

Site Contact: Jim Hostler

Contractor: Beacon Contracting, LLC

Set No.: 1

Sample Location: Footings at Line 15, Line C.5 to 15 feet east of Line A

Cast Date: 08/20/2019

FIELD DATA (ASTM C31)

Slump, ASTM C143 (in.):	5.00	Supplier:	Geiger Ready-Mix
Air Content, ASTM C231 (%):	7.0	Mix Design:	A4UC517V445
Conc. Temp., ASTM C1064 (°F):	85	Truck/Ticket No.:	453/887115
Unit Weight, ASTM C138 (p.c.f.):	--	Batch Time:	12:01:00
Yield, ASTM C138 (ft. ³):	--	Sample Time:	13:50:00
Truck/Accum. Quantity (yd. ³):	10/10	Mixing Time (min.):	109
Sampled From, ASTM C172:	Truck Chute	Initial Curing Method:	Sealed/Curing Box
Specified Strength (psi):	3,000	Cylinders Cast By:	Eric N. Behrens
Average Strength (psi):	3,180	Received in Lab:	08/21/2019

Laboratory Data (ASTM C39 / C1231 / C617)

Cylinder ID	Cylinder Weight (lbs.)	Cross Sec. Area (sq.in.)	Cylinder Diameter (in.)	Maximum Load (lbs.)	Compressive Strength (psi)	Fracture/Capping Type *	Test Date	Cylinder Test Age (day)
7262-1-1	--	12.57	4.00	39960	3180	2/N	08/27/2019	7
7262-1-2	--	--	--	--	--	--	09/17/2019	28
7262-1-3	--	--	--	--	--	--	09/17/2019	28
7262-1-4	--	--	--	--	--	--	09/17/2019	28

* Fracture type as shown in Figure 2, ASTM C39 / Capping type: N - Neoprene Pads; B - Bonded; G - Ground

Remarks:

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Report Date: 08/29/2019

Client: A.J. Brown Inc.

Project: J034913.01

Goddard School Lee's Summit

Lee's Summit, MO

Concrete Cylinder Test Results

General Contractor: A.J. Brown, Inc.

Temperature/Weather: 95°F Sunny

Site Contact: Jim Hostler

Contractor: Beacon Contracting, LLC

Set No.: 2

Sample Location: Footing at 15 feet east of Line A, Line 1 to 3

Cast Date: 08/20/2019

FIELD DATA (ASTM C31)

Slump, ASTM C143 (in.):	4.75	Supplier:	Geiger Ready-Mix
Air Content, ASTM C231 (%):	6.8	Mix Design:	A4UC517V445
Conc. Temp., ASTM C1064 (°F):	84	Truck/Ticket No.:	309/887141
Unit Weight, ASTM C138 (p.c.f.):	--	Batch Time:	15:16:00
Yield, ASTM C138 (ft. ³):	--	Sample Time:	15:50:00
Truck/Accum. Quantity (yd. ³):	10/40	Mixing Time (min.):	34
Sampled From, ASTM C172:	Truck Chute	Initial Curing Method:	Sealed/Curing Box
Specified Strength (psi):	3,000	Cylinders Cast By:	Eric N. Behrens
Average Strength (psi):	3,120	Received in Lab:	08/21/2019

Laboratory Data (ASTM C39 / C1231 / C617)

Cylinder ID	Cylinder Weight (lbs.)	Cross Sec. Area (sq.in.)	Cylinder Diameter (in.)	Maximum Load (lbs.)	Compressive Strength (psi)	Fracture/Capping Type *	Test Date	Cylinder Test Age (day)
7262-2-1	--	12.57	4.00	39260	3120	2/N	08/27/2019	7
7262-2-2	--	--	--	--	--	--	09/17/2019	28
7262-2-3	--	--	--	--	--	--	09/17/2019	28
7262-2-4	--	--	--	--	--	--	09/17/2019	28

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