

December 29, 2011

Mr. Robert Kutch  
Emergent Care Plus  
2741 NE McBaine Drive  
Lee's Summit, Missouri 64064

**RE: Construction Services  
Emergent Care Plus – Primary Care Suite  
2741 NE McBaine Drive  
Lee's Summit, Missouri 64064  
Project No. 122792**

Dear Mr. Kutch:

In accordance with your request, representatives of Kleinfelder have provided field observation and testing services relating to drilled and epoxied reinforcing steel and anchors, reinforced concrete, structural masonry, structural steel and pavement subgrade for the building addition at the referenced site. Our services were provided on a part-time basis between November 15 and December 23, 2011, as scheduled by representatives of A.L. Huber Construction. The compliance of any materials or work not observed by our personnel cannot be determined by our firm and is not addressed, or implied, by this or any previous report.

**Summary of Activities**

**Drilled and Epoxied Reinforcing Steel and Anchors**

Installation of the drilled and epoxied reinforcing steel into the existing foundation at Grid C-2 was observed. Also, installation of the drill and epoxy anchors for the x-brace framing was observed at Grids H-1, L-1, M-5, M-6 and J-5 per the attached e-mail from John Funk with Hollis and Miller. The hole size, depth, cleanliness, reinforcing steel size, spacing, embedment depth and type of epoxy adhesive used were observed.

## Reinforced Concrete

Placement of the reinforcing steel within the elevator pit slab and walls was observed. Field tests were performed and compressive strength test specimens cast with concrete sampled from the referenced areas and the ground floor on-grade slab. Results of the recent concrete compressive strength tests are enclosed.

## Structural Masonry

Placement of the grout and reinforcing steel within the elevator shaft structural masonry walls was observed from 0 to 8 feet and 20 to 24 feet in elevation. Field tests were performed and compressive strength test specimens cast with grout placed in the referenced walls. Block prisms were also constructed by the mason using block and mortar from the referenced walls. Results of the recent compressive strength tests are enclosed.

## Structural Steel

The bar joist end bearing field welded connections and high strength bolted connections between Lines C-M, 1-6 within the second floor structural steel framing for the proposed building were observed.

## Pavement Subgrade

On December 9, the exposed subgrade within the parking lot for the proposed building addition was observed. The subgrade was proofrolled using a loaded tandem-axle dump truck and was evaluated with respect to stability and moisture content.

## Corrected Variances

### Pavement Subgrade

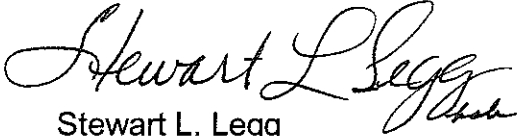
During proofrolling of the pavement subgrade, two isolated areas of soft soils were observed. The soft soils extended to a depth of approximately 12 inches in an area in the northwest corner of the parking lot and to approximately 5 inches in the southeast corner of the lot. The soft soils were over-excavated to expose stiff clay soils and backfilled with crushed limestone gravel.

## Status of Compliance

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

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

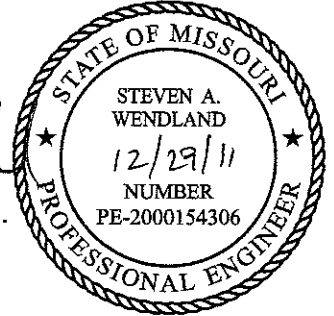
Respectfully submitted,  
**KLEINFELDER**



Stewart L. Legg  
Project Manager



Steve Wendland, P.E., R.G.  
Missouri: 2000154306



SLL/SAW:ksb

cc: Mr. David Esely – Hollis and Miller (e-mail)  
Mr. Keith Dorrian – A.L. Huber (e-mail)  
City of Lee's Summit, Missouri

**RE: Bolt fix**

John Funk [JFunk@hollisandmiller.com]

**Sent:** Tuesday, November 29, 2011 1:25 PM

**To:** Stuart Olinger

Stuart,

Here is the original email and the material can be supplied by Metal by the foot. It is the same material, but they refer to it as "B7" rod. Please let me know if you need any additional information. Thanks!

For the x-brace locations (M-1, H-1, M-5, M-6 and J-5) the anchor must be a 1" diameter Hilti HAS Super (ASTM A 193 B7) Rod with HY150 max SD and embed 20". Unfortunately this is the only anchor that will work for our condition. All other locations can be per J1/S301. Please let me know if you have any questions or comments. Thanks!

**John E. Funk, PE**  
Senior Associate

**hollis + miller** architects<sup>pc</sup>  
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*Hollis + Miller Architects encourages responsible environmental choices.*

**From:** Stuart Olinger [mailto:[solinger@alhuber.com](mailto:solinger@alhuber.com)]  
**Sent:** Tuesday, November 29, 2011 12:13 PM  
**To:** John Funk  
**Subject:** Bolt fix

John, again thanks for helping us out on the bolt situation. Per our conversation, could you put the material that you found at Metal by the Foot in that e-mail that you sent earlier. I want to be able to give it to Doherty and Kleinfelder. Thanks.

**Stuart Olinger**  
A.L. HUBER GENERAL CONTRACTOR | POWERED BY Wind and Sun  
10770 El Monte, Overland Park, KS 66211  
office 913-341-4880 mobile 913-915-4236 [ALHuber.com](http://ALHuber.com)  
reduce | reuse | recycle



11529 West 79th Street  
 Lenexa, Kansas 66214  
 Phone: (913) 962-0909 Fax: (913) 962-0924

**CONCRETE CYLINDER COMPRESSIVE STRENGTH REPORT, ASTM C 39**

Report To:  
 Emergent Care Plus  
 Rob Kutch  
 2741 Northeast McBaine Drive  
 Lees Summit, MO 64064

Report Date: 12/28/2011  
 Project No.: 122792  
 Project: Emergent Care - Primary Care  
 Task: 1 Task 1

**MIX DESIGN DATA**

Supplier: Century  
 Mix No.: 3KFAMRWR  
 Cement Type:

Cement Factor (sk/cy):  
 Max. Size Agg.(in.):  
 Admixtures:

**SAMPLE DATA**

Date Sampled: 11/4/2011  
 Source of Sample: Footing  
 Line M-1 thru 6

Date Received: 11/7/2011

Time Batched: 3:00 PM  
 Time Sampled: 3:30 PM  
 Batch Size (cy):  
 Water Added (gal):

Contractor: A.L. Huber  
 Truck/Ticket: 221/220902/1  
 Sampled By: EG  
 Submitted By: EG  
 Curing Method: Cure Room  
 Field Cure Temp (°F) Hi: Lo:  
 Field Cure Time: 72 hrs.

	Measured	Specified	
		Min	Max
Slump (in)	3.5	3	5
Slump w/plasticizer (in)			
Ambient Air Temperature (°F)	68		
Mix Temperature (°F)	75		
Air Content (%)			
Unit Weight (pcf)			
Time in Truck (mins.)	30		

**LABORATORY DATA**

Set No.: LEN122792-1

Capping Method: Unbonded

Sample Number	Date Tested	Age (days)	Dimensions (in)		Area (in <sup>2</sup> )	Fracture Type	Ultimate Load (lbs)	Compressive Strength (psi)
			Diam.	Height				
LEN122792-1A	11/11/2011	7	4.00	8.00	12.57	Cone and Split	55,010	4,380
LEN122792-1B	12/2/2011	28	4.00	8.00	12.57	Cone and Split	71,860	5,720
LEN122792-1C	12/2/2011	28	4.00	8.00	12.57	Side Fracture	70,660	5,620
LEN122792-1D		Hold						
Average 28 Day Strength (psi):								5,670
Required Strength (psi) @ 28 days:								3,000

Remarks:

Reviewed on 12/2/2011 by: \_\_\_\_\_  
 Stewart Legg  
 Project Manager

Associated Test Methods: ASTM C 31, C 138, C 143, C 172, C 173, C 231, C 617, C 1064, C 1231

Unless prior arrangements have been made all HOLD specimens will be discarded if required strength is attained.  
 Limitations: Pursuant to applicable building codes, the results presented in this report are for the exclusive use of the client and the registered design professional in responsible charge. The results apply only to the samples tested. If changes to the specifications were made and not communicated to Kleinfelder, Kleinfelder assumes no responsibility for pass/fail statements (meets/did not meet), if provided. This report may not be reproduced, except in full, without written approval of Kleinfelder.



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**CONCRETE CYLINDER COMPRESSIVE STRENGTH REPORT, ASTM C 39**

Report To:  
 Emergent Care Plus  
 Rob Kutch  
 2741 Northeast McBaine Drive  
 Lees Summit, MO 64064

Report Date: 12/28/2011  
 Project No.: 122792  
 Project: Emergent Care - Primary Care  
 Task: 1 Task 1

**MIX DESIGN DATA**

Supplier: Century  
 Mix No.: 3KFAMRWR  
 Cement Type:

Cement Factor (sk/cy):  
 Max. Size Agg.(in.):  
 Admixtures:

**SAMPLE DATA**

Date Sampled: 11/7/2011  
 Source of Sample: Footing  
 Line 3-6

Date Received: 11/8/2011

Time Batched: 1:07 PM  
 Time Sampled: 1:30 PM  
 Batch Size (cy):  
 Water Added (gal):

Contractor: A.L. Huber  
 Truck/Ticket: 221/220981/1  
 Sampled By: EG  
 Submitted By: EG  
 Curing Method: Cure Room  
 Field Cure Temp (°F) Hi: Lo:  
 Field Cure Time: 24 hrs.

	Measured	Specified	
		Min	Max
Slump (in)	3	3	5
Slump w/plasticizer (in)			
Ambient Air Temperature (°F)	65		
Mix Temperature (°F)	73		
Air Content (%)			
Unit Weight (pcf)			
Time in Truck (mins.)	23		

**LABORATORY DATA**

Set No.: LEN122792-2

Capping Method: Unbonded

Sample Number	Date Tested	Age (days)	Dimensions (in)		Area (in <sup>2</sup> )	Fracture Type	Ultimate Load (lbs)	Compressive Strength (psi)
			Diam.	Height				
LEN122792-2A	11/14/2011	7	4.00	8.00	12.57	Side Fracture	52,770	4,200
LEN122792-2B	12/5/2011	28	4.00	8.00	12.57	Side Fracture	70,430	5,600
LEN122792-2C	12/5/2011	28	4.00	8.00	12.57	Side Fracture	70,020	5,570
LEN122792-2D		Hold						
Average 28 Day Strength (psi):								5,590
Required Strength (psi) @ 28 days:								3,000

Remarks:

Reviewed on 12/5/2011 by: \_\_\_\_\_  
 Stewart Legg  
 Project Manager

Associated Test Methods: ASTM C 31, C 138, C 143, C 172, C 173, C 231, C 617, C 1064, C 1231

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**CONCRETE CYLINDER COMPRESSIVE STRENGTH REPORT, ASTM C 39**

Report To:  
 Emergent Care Plus  
 Rob Kutch  
 2741 Northeast McBaine Drive  
 Lees Summit, MO 64064

Report Date: 12/28/2011  
 Project No.: 122792  
 Project: Emergent Care - Primary Care  
 Task: 1 Task 1

**MIX DESIGN DATA**

Supplier: Century  
 Mix No.: 3KFAMRWR  
 Cement Type:

Cement Factor (sk/cy):  
 Max. Size Agg.(in.):  
 Admixtures:

**SAMPLE DATA**

Date Sampled: 11/10/2011  
 Source of Sample: Footing  
 South footings

Date Received: 11/14/2011

Time Batched: 7:00 AM  
 Time Sampled: 7:30 AM

Batch Size (cy):  
 Water Added (gal):

Contractor: A.L. Huber  
 Truck/Ticket: 221/220981/1  
 Sampled By: EG  
 Submitted By: EG  
 Curing Method: Cure Room  
 Field Cure Temp (°F) Hi: Lo:  
 Field Cure Time: 96 hrs.

	Measured	Specified	
		Min	Max
Slump (in)	3	3	5
Slump w/plasticizer (in)			
Ambient Air Temperature (°F)	40		
Mix Temperature (°F)	57		
Air Content (%)			
Unit Weight (pcf)			
Time in Truck (mins.)	30		

**LABORATORY DATA**

Set No.: LEN122792-3

Capping Method: Unbonded

Sample Number	Date Tested	Age (days)	Dimensions (in)		Area (in <sup>2</sup> )	Fracture Type	Ultimate Load (lbs)	Compressive Strength (psi)
			Diam.	Height				
LEN122792-3A	11/17/2011	7	4.00	8.00	12.57	Side Fracture	48,340	3,850
LEN122792-3B	12/8/2011	28	4.00	8.00	12.57	Columnar	68,800	5,470
LEN122792-3C	12/8/2011	28	4.00	8.00	12.57	Cone and Split	70,370	5,600
LEN122792-3D		Hold						

Average 28 Day Strength (psi): 5,540  
 Required Strength (psi) @ 28 days: 3,000

Remarks:

Reviewed on 12/8/2011 by: \_\_\_\_\_  
 Stewart Legg  
 Project Manager

Associated Test Methods: ASTM C 31, C 138, C 143, C 172, C 173, C 231, C 617, C 1064, C 1231

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Report To:  
 Emergent Care Plus  
 Rob Kutch  
 2741 Northeast McBaine Drive  
 Lees Summit, MO 64064

Report Date: 12/28/2011  
 Project No.: 122792  
 Project: Emergent Care - Primary Care  
 Task: 1 Task 1

**MIX DESIGN DATA**

Supplier: Century  
 Mix No.: 3KFAMRWR  
 Cement Type:

Cement Factor (sk/cy):  
 Max. Size Agg.(in.):  
 Admixtures:

**SAMPLE DATA**

Date Sampled: 11/11/2011  
 Source of Sample: Footing  
 SE footing pad

Date Received: 11/14/2011

Time Batched: 10:25 AM  
 Time Sampled: 11:00 AM  
 Batch Size (cy):  
 Water Added (gal):

Contractor: A.L. Huber  
 Truck/Ticket: 213/221071/1  
 Sampled By: EG  
 Submitted By: EG  
 Curing Method: Cure Room  
 Field Cure Temp (°F) Hi:  
 Field Cure Time: 72 hrs.

Lo:

	Measured	Specified	
		Min	Max
Slump (in)	3	3	5
Slump w/plasticizer (in)			
Ambient Air Temperature (°F)	50		
Mix Temperature (°F)	62		
Air Content (%)			
Unit Weight (pcf)			
Time in Truck (mins.)	35		

**LABORATORY DATA**

Set No.: LEN122792-4

Capping Method: Unbonded

Sample Number	Date Tested	Age (days)	Dimensions (in)		Area (in <sup>2</sup> )	Fracture Type	Ultimate Load (lbs)	Compressive Strength (psi)
			Diam.	Height				
LEN122792-4A	11/18/2011	7	4.00	8.00	12.57	Side Fracture	53,060	4,220
LEN122792-4B	12/9/2011	28	4.00	8.00	12.57	Cone and Split	70,180	5,580
LEN122792-4C	12/9/2011	28	4.00	8.00	12.57	Side Fracture	62,140	4,940
LEN122792-4D		Hold						
Average 28 Day Strength (psi):								5,260
Required Strength (psi) @ 28 days:								3,000

Remarks:

Reviewed on 12/9/2011 by:

Stewart Legg  
 Project Manager

Associated Test Methods: ASTM C 31, C 138, C 143, C 172, C 173, C 231, C 617, C 1064, C 1231

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**CONCRETE CYLINDER COMPRESSIVE STRENGTH REPORT, ASTM C 39**

Report To:  
 Emergent Care Plus  
 Rob Kutch  
 2741 Northeast McBaine Drive  
 Lees Summit, MO 64064

Report Date: 12/13/2011  
 Project No.: 122792  
 Project: Emergent Care - Primary Care  
 Task: 1 Task 1

**MIX DESIGN DATA**

Supplier: Century  
 Mix No.: N1C1554305  
 Cement Type:

Cement Factor (sk/cy):  
 Max. Size Agg.(in.):  
 Admixtures:

**SAMPLE DATA**

Date Sampled: 11/15/2011  
 Source of Sample: Footing  
 Elevator pit

Date Received: 11/17/2011

Time Batched: 2:15 PM  
 Time Sampled: 2:50 PM

Batch Size (cy):  
 Water Added (gal):

Contractor: A.L. Huber  
 Truck/Ticket: 210/221210  
 Sampled By: David Zentz  
 Submitted By: David Zentz  
 Curing Method: Cure Room  
 Field Cure Temp (°F) Hi:  
 Field Cure Time: 48 hrs.

Lo:

	Measured	Specified	
		Min	Max
Slump (in)			
Slump w/plasticizer (in)	3.00	-	6
Ambient Air Temperature (°F)	65		
Mix Temperature (°F)	70		
Air Content (%)			
Unit Weight (pcf)			
Time in Truck (mins.)	35		

**LABORATORY DATA**

Set No.: LEN122792-5

Capping Method: Unbonded

Sample Number	Date Tested	Age (days)	Dimensions (in)		Area (in <sup>2</sup> )	Fracture Type	Ultimate Load (lbs)	Compressive Strength (psi)
			Diam.	Height				
LEN122792-5A	11/22/2011	7	4.00	8.00	12.57	Cone and Split	46,480	3,700
LEN122792-5B	12/13/2011	28	4.00	8.00	12.57	Cone and Split	67,870	5,400
LEN122792-5C	12/13/2011	28	4.00	8.00	12.57	Columnar	66,700	5,310
LEN122792-5D		Hold						
Average 28 Day Strength (psi):								5,360
Required Strength (psi) @ 28 days:								3,000

Remarks:

Reviewed on 12/13/2011 by:

Stewart Legg  
 Project Manager

Associated Test Methods: ASTM C 31, C 138, C 143, C 172, C 173, C 231, C 617, C 1064, C 1231

Unless prior arrangements have been made all HOLD specimens will be discarded if required strength is attained. Limitations: Pursuant to applicable building codes, the results presented in this report are for the exclusive use of the client and the registered design professional in responsible charge. The results apply only to the samples tested. If changes to the specifications were made and not communicated to Kleinfelder, Kleinfelder assumes no responsibility for pass/fail statements (meets/did not meet), if provided. This report may not be reproduced, except in full, without written approval of Kleinfelder.



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**CONCRETE CYLINDER COMPRESSIVE STRENGTH REPORT, ASTM C 39**

Report To:  
 Emergent Care Plus  
 Rob Kutch  
 2741 Northeast McBaine Drive  
 Lees Summit, MO 64064

Report Date: 12/28/2011  
 Project No.: 122792  
 Project: Emergent Care - Primary Care  
 Task: 1 Task 1

**MIX DESIGN DATA**

Supplier: Century  
 Mix No.: NA  
 Cement Type:

Cement Factor (sk/cy):  
 Max. Size Agg.(in.):  
 Admixtures:

**SAMPLE DATA**

Date Sampled: 11/16/2011 Date Received: 11/17/2011  
 Source of Sample: Wall Panel  
 Elevator foundation walls at Grids A-C, 2.7-3.3

Time Batched: 2:00 PM Batch Size (cy): 3.5  
 Time Sampled: 2:40 PM Water Added (gal):

Contractor: A.L. Huber  
 Truck/Ticket: 212/221251  
 Sampled By: John Wiss  
 Submitted By: John Wiss  
 Curing Method: Cure Room  
 Field Cure Temp (°F) Hi: Lo:  
 Field Cure Time: 24 hrs.

	Measured	Specified	
		Min	Max
Slump (in)	4	3	5
Slump w/plasticizer (in)			
Ambient Air Temperature (°F)	42		
Mix Temperature (°F)	70		
Air Content (%)			
Unit Weight (pcf)			
Time in Truck (mins.)	40		

**LABORATORY DATA**

Set No.: LEN122792-6

Capping Method: Unbonded

Sample Number	Date Tested	Age (days)	Dimensions (in)		Area (in <sup>2</sup> )	Fracture Type	Ultimate Load (lbs)	Compressive Strength (psi)
			Diam.	Height				
LEN122792-6A	11/21/2011	5	4.00	8.00	12.57	Side Fracture	46,100	3,670
LEN122792-6B	11/23/2011	7	4.00	8.00	12.57	Side Fracture	54,410	4,330
LEN122792-6C	12/14/2011	28	4.00	8.00	12.57	Cone and Split	74,210	5,910
LEN122792-6D	12/14/2011	28	4.00	8.00	12.57	Side Fracture	73,690	5,860
Average 28 Day Strength (psi):								5,890
Required Strength (psi) @ 28 days:								3,000

Remarks:

Reviewed on 12/14/2011 by: \_\_\_\_\_  
 Stewart Legg  
 Project Manager

Associated Test Methods: ASTM C 31, C 138, C 143, C 172, C 173, C 231, C 617, C 1064, C 1231

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**CONCRETE CYLINDER COMPRESSIVE STRENGTH REPORT, ASTM C 39**

Report To:  
 Emergent Care Plus  
 Rob Kutch  
 2741 Northeast McBaine Drive  
 Lees Summit, MO 64064

Report Date: 12/21/2011  
 Project No.: 122792  
 Project: Emergent Care - Primary Care  
 Task: 1 Task 1

**MIX DESIGN DATA**

Supplier: Century  
 Mix No.: N1454G5  
 Cement Type:  
 Cement Factor (sk/cy):  
 Max. Size Agg.(in.):  
 Admixtures: Mid Range WR

**SAMPLE DATA**

Date Sampled: 11/23/2011 Date Received: 11/29/2011 Time Batched: 7:20 AM Batch Size (cy): 10  
 Source of Sample: Slab-on-Grade Time Sampled: 8:00 AM Water Added (gal):  
 Lines M-H, 5-6

Contractor: -  
 Truck/Ticket: 247/221407  
 Sampled By: John Wiss  
 Submitted By: John Wiss  
 Curing Method: Cure Room  
 Field Cure Temp (°F) Hi: Lo:  
 Field Cure Time: 144 hrs.

	Measured	Specified	
		Min	Max
Slump (in)			
Slump w/plasticizer (in)	6.0	4	6
Ambient Air Temperature (°F)	40		
Mix Temperature (°F)	68		
Air Content (%)			
Unit Weight (pcf)			
Time in Truck (mins.)	40		

**LABORATORY DATA**

Set No.: LEN122792-7 Capping Method: Unbonded

Sample Number	Date Tested	Age (days)	Dimensions (in)		Area (in <sup>2</sup> )	Fracture Type	Ultimate Load (lbs)	Compressive Strength (psi)
			Diam.	Height				
LEN122792-7A	11/30/2011	7	4.00	8.00	12.57	Side Fracture	48,610	3,870
LEN122792-7B	12/21/2011	28	4.00	8.00	12.57	Cone and Split	66,900	5,320
LEN122792-7C	12/21/2011	28	4.00	8.00	12.57	Side Fracture	71,700	5,710
LEN122792-7D		Hold						

Average 28 Day Strength (psi): 5,520  
 Required Strength (psi) @ 28 days: 4,000

Remarks:

Reviewed on 12/21/2011 by: \_\_\_\_\_  
 Stewart Legg  
 Project Manager

Associated Test Methods: ASTM C 31, C 138, C 143, C 172, C 173, C 231, C 617, C 1064, C 1231

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## CONCRETE CYLINDER COMPRESSIVE STRENGTH REPORT, ASTM C 39

**Report To:**  
 Emergent Care Plus  
 Rob Kutch  
 2741 Northeast McBaine Drive  
 Lees Summit, MO 64064

**Report Date:** 12/21/2011  
**Project No.:** 122792  
**Project:** Emergent Care - Primary Care  
**Task:** 1 Task 1

### MIX DESIGN DATA

**Supplier:** Century  
**Mix No.:** N1454G5  
**Cement Type:**

**Cement Factor (sk/cy):**  
**Max. Size Agg.(in.):**  
**Admixtures:** Mid Range WR

### SAMPLE DATA

**Date Sampled:** 11/23/2011    **Date Received:** 11/29/2011    **Time Batched:** 8:09 AM    **Batch Size (cy):** 10  
**Source of Sample:** Slab-on-Grade    **Time Sampled:** 8:50 AM    **Water Added (gal):**  
 Lines F.5-E.5, 1-3

**Contractor:** -  
**Truck/Ticket:** 221/221415  
**Sampled By:** John Wiss  
**Submitted By:** John Wiss  
**Curing Method:** Cure Room  
**Field Cure Temp (°F) Hi:**                      **Lo:**  
**Field Cure Time:** 144 hrs.

	Measured	Specified	
		Min	Max
Slump (in)			
Slump w/plasticizer (in)	6.0	4	6
Ambient Air Temperature (°F)	42		
Mix Temperature (°F)	65		
Air Content (%)			
Unit Weight (pcf)			
Time in Truck (mins.)	41		

### LABORATORY DATA

**Set No.:** LEN122792-8

**Capping Method:** Unbonded

Sample Number	Date Tested	Age (days)	Dimensions (in)		Area (in <sup>2</sup> )	Fracture Type	Ultimate Load (lbs)	Compressive Strength (psi)
			Diam.	Height				
LEN122792-8A	11/30/2011	7	4.00	8.00	12.57	Side Fracture	44,920	3,570
LEN122792-8B	12/21/2011	28	4.00	8.00	12.57	Side Fracture	66,740	5,310
LEN122792-8C	12/21/2011	28	4.00	8.00	12.57	Cone and Split	65,580	5,220
LEN122792-8D		Hold						

<b>Average 28 Day Strength (psi):</b>	5,270
<b>Required Strength (psi) @ 28 days:</b>	4,000

**Remarks:**

**Reviewed on 12/21/2011 by:** \_\_\_\_\_

Stewart Legg  
 Project Manager

**Associated Test Methods:** ASTM C 31, C 138, C 143, C 172, C 173, C 231, C 617, C 1064, C 1231

Unless prior arrangements have been made all HOLD specimens will be discarded if required strength is attained. Limitations: Pursuant to applicable building codes, the results presented in this report are for the exclusive use of the client and the registered design professional in responsible charge. The results apply only to the samples tested. If changes to the specifications were made and not communicated to Kleinfelder, Kleinfelder assumes no responsibility for pass/fail statements (meets/did not meet), if provided. This report may not be reproduced, except in full, without written approval of Kleinfelder.



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**GROUT COMPRESSIVE STRENGTH REPORT, ASTM C 1019**

**Report To:**

Emergent Care Plus  
 Rob Kutch  
 2741 Northeast McBaine Drive  
 Lees Summit, MO 64064

**Report Date:** 12/28/2011

**Project No.:** 122792

**Project:** Emergent Care - Primary Care

**Task:** 1 Task 1

**MIX DESIGN DATA**

**Supplier:** Ash Grove

**Mix No.:** NA

**Cement Type:**

**Cement Factor (sk/cy):**

**Max. Size Agg.(in):**

**Admixtures:**

**SAMPLE DATA**

**Date Sampled:** 11/30/2011 **Date Received:** 12/2/2011

**Source of Sample:** Masonry

Elevator shaft at 20-24'

**Time Batched:** 10:30 AM

**Time Sampled:** 10:40 AM

**Batch Size (cy):**

**Water Added (gal):**

**Contractor:** A.L. Huber

**Truck/Ticket:**

**Sampled By:** EG

**Submitted By:** EG

**Curing Method:** Cure Room

**Field Cure Temp (°F) Hi:** **Lo:**

**Field Cure Time (days):** 2

	Measured	Specified	
		Min	Max
Slump (in)			
Ambient Air Temperature (°F)	40		
Mix Temperature (°F)	53		
Time in Truck (min)	10		

**LABORATORY DATA**

**Set No.:** LEN122792-9

**Capping Method:** Sulfur Cement

Sample Number	Date Tested	Age (days)	Dimensions (in)			Area (in <sup>2</sup> )	Description of Failure	Ultimate Load (lbs)	Compressive Strength (psi)
			Width	Length	Height				
LEN122792-9A	12/7/2011	7	3.10	3.10	6.00	9.61	Type 3-Columnar	55,750	5,800
LEN122792-9B	12/28/2011	28	3.10	3.20	5.90	9.92	Type 3-Columnar	67,380	6,790
LEN122792-9C	12/28/2011	28	3.10	3.10	6.00	9.61	Type 3-Columnar	62,030	6,450
<b>Average 28 Day Strength (psi):</b>									6,620
<b>Required Strength (psi) @ 28 days:</b>									

**Remarks:**

**Reviewed on 12/28/2011 by:** \_\_\_\_\_

Stewart Legg  
 Project Manager

**Associated Test Methods:** ASTM C 39, C 143, C 617, C 1064

Unless prior arrangements have been made all HOLD specimens will be discarded if required strength is attained  
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