

**LEXINGTON-FAYETTE URBAN COUNTY  
GOVERNMENT CONTRACT CHANGE ORDER**

Page 1 of 2

Date:	March 10, 2015
Project:	Senior Citizen Center Construction
Location:	Lexington
Contract No.	227-2014
Original Contract Amt.	\$8,882,900.00
Cumulative Amount of Previous Change Orders	\$180,584.31
Percent Change - Previous Change Orders	2.03%
Total Contract Amount Prior to this Change Order	\$9,063,484.31
Change Order No.	11

To (Contractor):  
Marrillia Design & Construction  
259 West Short Street  
Suite 325  
Lexington, KY 40507

R-602-2014  
Original: R-548-2014  
Contract #: 227-2014

You are hereby requested to comply with the following changes from the contract plans and specification;

**Current Change Order**

Item No.	Description of changes-quantities, unit prices, change in completion date, etc.	Decrease in contract price	Increase in contract price
1	Unsuitable soils - over-excavated and flowable fill added		\$11,005.88
	Total decrease	\$0.00	
	Total increase		\$11,005.88
	Net Amount of this Change Order	\$11,005.88	
	New Contract Amount Including this Change Order	\$9,074,490.19	
	Percent Change - This Change Order		0.12%
	Percent Change - All Change Orders		2.16%

The time provided for the completion in the contract and all provisions of the contract will apply hereto.

Recommended by <i>George Thomas</i>	Project Manager	Date 3/11/15
Accepted by <i>Jack Marrillia</i>	(Contractor)	Date 3/13/15
Approved by <i>[Signature]</i>	(Director)	Date 3-13-15
Approved by <i>[Signature]</i>	(Commissioner)	Date 3-13-15
Approved by <i>[Signature]</i>	(Mayor or CAO)	Date 3-15-15

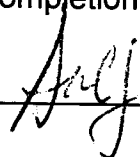
**JUSTIFICATION FOR CHANGE**

PROJECT: Senior Citizen Center Construction

CONTRACT NO. 227-2014

CHANGE ORDER: 11

1. Necessity for change: Unsuitable soils found at C/4-D/5.3, 5, 4 & D/3.5 & D/2.8 & D/2 & E9.5 E/5 & F.5/2.8 & F/1.5, 2. Areas were overexcavated and filled with flowable fill.
2. Is proposed change an alternate bid? \_\_\_ Yes X No
3. Will proposed change alter the physical size of the project? \_\_\_ Yes X No  
If "Yes", explain.
4. Effect of this change on other prime contractors: N/A
5. Has consent of surety been obtained? \_\_\_ Yes X Not Necessary
6. Will this change affect expiration or extent of insurance coverage? \_\_\_ Yes X No  
If "Yes", will the policies be extended? \_\_\_ Yes \_\_\_ No
7. Effect on operation and maintenance costs: N/A
8. Effect on contract completion date: Add 1.5 days.

  
\_\_\_\_\_  
Mayor

3-15-15  
Date



## LFUCG-Senior Center Soil Remediation Worksheet

Description	Unit Rates	Quantities Recorded	Sub-Totals
Structural Over Excavation (Soil)-CYDS	\$7.00	63	\$441.00
Load and Haul Excess Over-Excavation Soils Off Site-CYDS	\$7.00	63	\$441.00
Structural Back Fill (DGA)-Tons	\$25.00		\$0.00
Structural Backfill (Structural Flowable Fill)-CYDS	\$150.00	63	\$9,450.00
Overhead Daily Cost	\$449.25	1.5	\$673.88
Time Delay	1.5		
We request 1.5 days be added to the schedule due to the large excavation/pour.			
		<b>Total Cost=</b>	<b>\$11,005.88</b>



# THELEN ASSOCIATES, INC.

Geotechnical • Testing Engineers

125 Trade Street, Suite D, Lexington, KY 40511 / 859-226-0761  
Erlanger, Kentucky • Cincinnati, Ohio • Dayton, Ohio

Arrived: 10/18/15

Depart:

CLIENT: LFUG-DBS  
PROJECT: Senior Center  
SUBJECT: Undercuts

PROJECT NO: 140955  
DATE: 3/9/15  
ENGINEER: JM  
CHECKED: \_\_\_\_\_  
SHEET: 1 OF 2

Column Footing. C.L. C/5-

Bearing elevation

saturated tan - brown, soft, clay

$$V = 72'' \times 90'' \times 72'' = 8.9 \text{ yd}^3$$

Fill w/ topsoil.

24" below bearing some material undercut to 6' below bearing exposed some saturated fill material.

C/4 - D/5.3, 5, 4

Some material as in previous excavation.

Total  
 $V = 9.5 \text{ yd}^3$

Undercut to 4' below bearing exposed topsoil, clay fill material

D/3.5

bearing elevation

saturated, tan to brown clay Fill w/ topsoil.

$$V = 61'' \times 63'' \times 53'' = 5.2 \text{ yd}^3$$

24" below some material 5' below tan, soft, silty clay fill



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PROJECT NO: \_\_\_\_\_

DATE: \_\_\_\_\_

ENGINEER: \_\_\_\_\_

CHECKED: \_\_\_\_\_

SHEET: 2 OF 3

CLIENT: \_\_\_\_\_

PROJECT: \_\_\_\_\_

SUBJECT: \_\_\_\_\_

D/a.8

bearing elevation exposed saturated  
tan to brown silty clay fill,  
soil - 1000 psf.

$$V = 50'' \times 48'' \times 50''$$

24'' below same material

$$= 2.6 \text{ yd}^3$$

48'' below - tan soft, silty clay fill  
w/ roots.

D/a

bearing elevation exposed saturated.  
tan to brown silty clay fill w/  
topsoil - 1000 psf.

$$V = 62'' \times 63'' \times 63''$$

24'' below - same material.

$$= 5.3 \text{ yd}^3$$

60'' below - tan, saturated, soft,  
silty clay fill.

E9/5

bearing elevation exposed saturated  
tan to brown, soft, silty clay fill  
w/ topsoil - 1000 psf.

$$V = 62'' \times 61'' \times 61''$$

24'' below same material.

$$= 5.1 \text{ yd}^3$$

60'' below, exposed tan saturated  
soft, silty clay fill.



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PROJECT NO: \_\_\_\_\_

DATE: \_\_\_\_\_

ENGINEER: \_\_\_\_\_

CHECKED: \_\_\_\_\_

SHEET: 3 OF 3

CLIENT: \_\_\_\_\_

PROJECT: \_\_\_\_\_

SUBJECT: \_\_\_\_\_

E/5

bearing elevations exposed tan brown saturated, soft, silty clay fill w/ gravel.

$$V = 50'' \times 49'' \times 51'' \\ = 2.7 \text{ yd}^3$$

-1000pcf.

24" below same material.

10" below, tan to brown, soft silty clay fill w/ gravel.

F.5/2.8 bearing elevations exposed tan to brown saturated, soft, silty clay fill w/ gravel

$$V = 50'' \times 50'' \times 49'' \\ = 2.7 \text{ yd}^3$$

24" below same material

24" below, tan to brown, soft silty clay w/ organics.

~~\_\_\_\_\_~~

~~\_\_\_\_\_~~

F.5/2.8

bearing elevations exposed

tan to brown saturated, soft, silty clay fill w/ gravel  
24" below same material  
24" below, tan to brown, soft silty clay w/ organics.

## Joyce Thomas

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**From:** Harding Dowell [hdowell@eopa.com]  
**Sent:** Tuesday, March 10, 2015 8:32 AM  
**To:** Joyce Thomas  
**Cc:** Martin Woodford; Jessica Walker  
**Subject:** RE: LFUCG Unsuitable Soils Report for 3/9/15

Hi Joyce,

I have double checked the math and reviewed the report and find it to be appropriate and accurate.

Thanks,

Harding

J Harding Dowell, AIA  
Project Architect



201 W Short Street | Suite 700 | Lexington, KY 40507  
tel: 859-231-7538 | mobile: 859-797-5515  
<http://www.eopa.com>

**From:** Travis Harris [mailto:tharris@marrillia.com]  
**Sent:** Tuesday, March 10, 2015 8:16 AM  
**To:** Joyce Thomas  
**Cc:** Harding Dowell; Jim Martin ; Josh Marrillia; bgravitt@marrillia.com; Martin Woodford  
**Subject:** LFUCG Unsuitable Soils Report for 3/9/15

Joyce,

Attached is the report from yesterday's activities for your review.

### Travis Harris

Site Manager  
Marrillia Design and Construction  
259 West Short Street, Suite 325  
Lexington, Kentucky 40507  
Tel: 859.686.0414  
Fax: 859.686.0418  
Cell: 859.200.9732  
Web: [www.marrillia.com](http://www.marrillia.com)  
Email: [tharris@marrillia.com](mailto:tharris@marrillia.com)

The logo for Marrillia design &amp; construction features the word 'Marrillia' in a large, bold, white serif font. Below it, the words 'design &amp; construction' are written in a smaller, lowercase, white sans-serif font. The entire logo is set against a solid black rectangular background.



Lexington-Fayette Urban County Government  
DEPARTMENT OF GENERAL SERVICES

TRANSMITTAL

Date: March 17, 2015

Contract Number: 227-2014

Purchase Order Number: LF00120278

Bid Package Number: 99-2014

Capital Project Number: TBD

Work Order Number: N/A

Building: Senior Citizen Center

Project Description: Replacement Senior Citizen Center Construction

To: Josh Marrillia, Marrillia Design & Construction RE: Change Order #11

CC: Meredith Nelson, Council Clerk (for file)  
Trina Brown, Social Services (for change order to purchase order)

From: Joyce Thomas, General Services *Joyce*

We Are Sending You:

- Contract
- Warranties
- Payment Application
- Operation and Maintenance Manuals
- Attached
- Plans

Item	Copies	Description	Pages	Date
1.	1	Change Order #11 – Fully Executed Copy	6	3/10/15

THESE ARE TRANSMITTED AS INDICATED BELOW:

- FOR APPROVAL
- FOR YOUR USE
- FOR YOUR REVIEW AND COMMENT
- OTHER:
- FOR ACTION
- FOR FILE
- FOR SIGNATURE

REPLY BY \_\_\_\_\_ TO AVOID DELAY IN CONSTRUCTION

Remarks:





# THELEN ASSOCIATES, INC.

Geotechnical • Testing Engineers

• 125 Trade Street, Suite D, Lexington, Kentucky 40511-2616 / 859-226-0761 / Fax 859-226-0763

[www.thelenassoc.com](http://www.thelenassoc.com)

Offices  
Erlanger, Kentucky  
Lexington, Kentucky  
Cincinnati, Ohio  
Dayton, Ohio

LFUCG - DGS  
200 East Main Street  
Lexington, Kentucky 40507

Attention: Ms. Joyce Thomas

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**PROJECT NO.:** 140955L  
**PROJECT:** Construction Review Services,  
Lexington Senior Citizens Center  
**PROJECT LOCATION:** Lexington, Kentucky  
**CONTRACTOR:** Hubbard Construction  
**DATE:** 3/9/2015      **TIME ARRIVED:** 10:30 AM      **TIME DEPARTED:** 4:00 PM  
**MILEAGE:** 15      **TRAVEL TIME (min.):** 30      **TOTAL TIME (hrs.):** 6.0

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## SUMMARY

The writer visited the site at the request of Mr. Jim Martin with Marrillia Design and Construction to review site activities. Work completed this day was reviewed with respect to the project Structural Drawings prepared by BFMJ, Inc. dated July 24, 2014.

The writer observed the contractor excavate column footings at Column Lines C / 4 & 5, D / 2 – 5.3, E / 5, E.9 / 5, F / 1.5 & 2, and F.5 / 2.8. The footing excavations exposed tan to brown, saturated, soft, silty clay with topsoil. The exposed surface did not appear to be suitable for the design bearing capacity of 3,000 pounds per square foot. The writer observed the contractor undercut the areas to 24" below bearing elevation. The extra excavation exposed brown to dark brown, moist, soft, topsoil with organics. This surface appeared suitable for a bearing capacity of approximately 1,000 pounds per square foot, or less than the design bearing capacity. The areas were then undercut as follows:

Column Line	Undercut Depth (feet below bearing elevation)
C / 4	4
C / 5	6
D / 2.8	4
D / 2	5
D / 3.5	5
D / 4	4
D / 5	4

D / 5.3	4
E / 5	5
E.9 / 5	5
F / 1.5	5
F / 2	5
F.5 / 2.8	5

The undercut volume was calculated to be 54 cubic yards. The writer observed the contractor place 63 cubic yards of flowable fill in the excavations to bring them back to original bearing elevation.

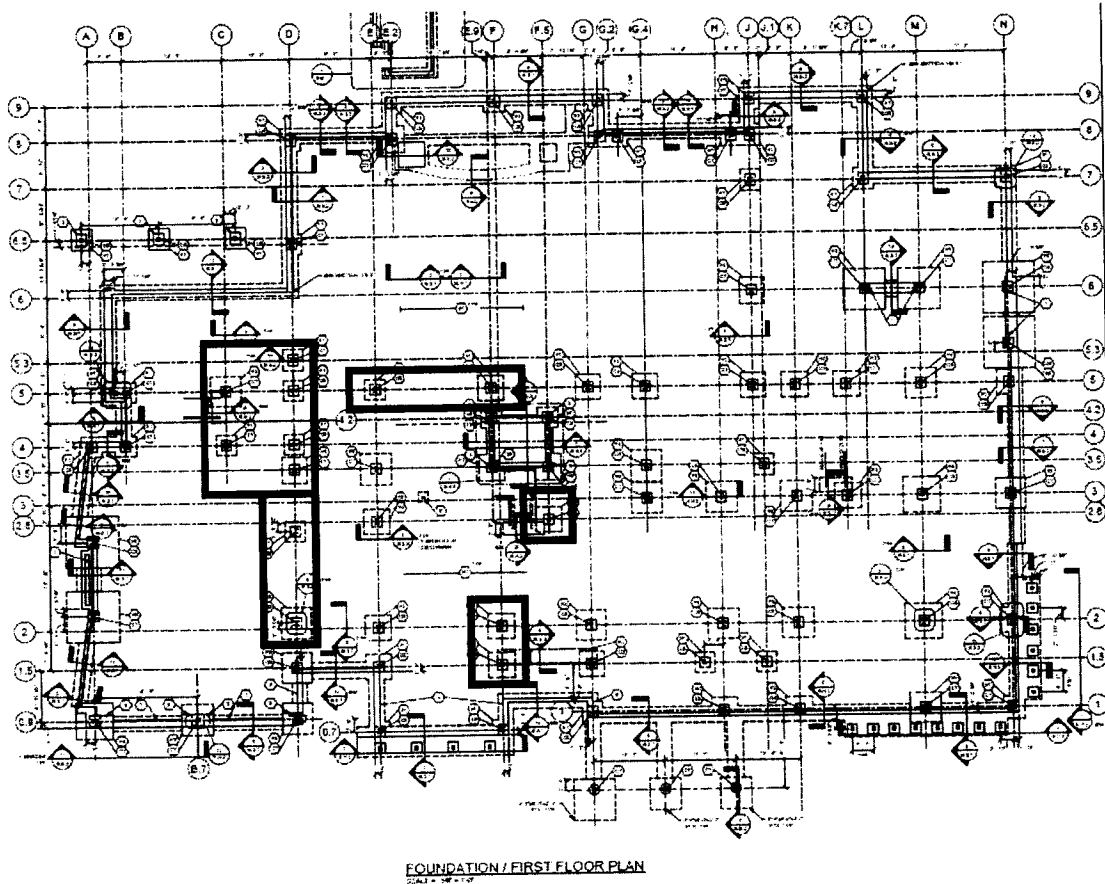
**Thelen Associates, Inc.**  
Jacob Campbell  
Senior Engineering Technician

Copies submitted: 1 – Client (email)  
1 – EOP Architects, Inc. (email)  
1 – BFMJ, Inc. (email)  
2 – Marrillia Construction (email)

**Figure 1: Photo of Excavations**



**Figure 2: View of Foundation / First Floor Plan**



Footings with Undercuts