




**JUSTIFICATION FOR CHANGE**

PROJECT: Senior Citizen Center Construction

CONTRACT NO. 227-2014

CHANGE ORDER: 3

1. Necessity for change: Poor soils were uncovered during excavation (as evidenced by proof roll failure). Design Team geotechnical consultant and devised the solution proposed in Proposal Request #5
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: 34 working days

  
\_\_\_\_\_  
Mayor

12/1/14  
\_\_\_\_\_  
Date

# Proposal Request Transmittal

EOP Architects 101 W. Smith St Suite 700 Lexington KY 40507 United States

PROJECT	LFUCG Senior Citizens' Center 201333	DATE SENT	11/14/2014
SUBJECT	Subgrade Remediation	PROPOSAL REQUEST ID	PR-005
TYPE	Proposal Request	TRANSMITTAL ID	00044
PURPOSE	For Review and Response	N/A	Info Exchange

## FROM

NAME	COMPANY	EMAIL	PHONE
Harding Dowell	EOP Architects	hdowell@eopa.com	(859) 231-7538

## TO

NAME	COMPANY	EMAIL	PHONE
Travis Harris	Marrillia Design and Construction	tharris@marrillia.com	
Rob Price	Marrillia Design and Construction	rprice@marrillia.com	(859) 685-0414
Josh Marrillia	Marrillia Design and Construction	jmarrillia@marrillia.com	(859) 685-0414
Jim Martin	Marrillia Design and Construction	martin@marrillia.com	(859) 685-0414
Brian Gravitt	Marrillia Design and Construction	bgravitt@marrillia.com	(859) 685-0414

## COPIES

Ethan Buell	(BFMJ, Inc.)
Anthony Harvey	(BFMJ, Inc.)
Charles Atkin	(BFMJ, Inc.)
Travis Andres	(Cardno ATC)
Jamshid Baradaran	(LFUCG)
Joyce Thomas	(LFUCG)
Joe Moore	(Thelen Associates)
Matthew Barker	(Thelen Associates)
Vaughan Adkins	(Element Design)
Ramona Fry	(Element Design)

# Proposal Request

PROJECT NAME: LFUCG Senior Citizens' Center  
PROJECT NUMBER: 201333  
SUBJECT: Subgrade Remediation  
INITIATED BY: Harding Dowell  
COR STATUS: Not Received  
STATUS: Closed  
ID: PR-005  
SENDER ID:  
DISCIPLINE: Civil Site, Construction  
DESCRIPTION:

The subsurface conditions at the site have been explored by the Architect, Geotechnical Engineer, Special Inspector, Excavation Subcontractor, and General Contractor. The combination of their expertise, experience, and empirical data from site investigations has led us to the following understanding:

1. Based on the proof roll, proctor test, and in-situ moisture test, a portion of the shallow soils at the building pad are unsuitable for bearing due to increased moisture content.
2. Based on geotechnical explorations, including five borings and three test pits in the area of the building pad, soils at footing depth are predominantly suitable for bearing of 3000 psf.
3. Based on geotechnical explorations, the soils in the vicinity of existing sanitary and storm sewer lines are unsuitable for bearing of 3000 psf. Removal of these lines and backfill with suitable material is part of the contract.
4. The project schedule expects to encounter suboptimal weather conditions as winter approaches. In these conditions, suitable soil fills may be difficult to cost-effectively procure.

With this understanding of the current and expected conditions, please provide pricing for the following remediation plan:

1. Grade existing soils to create a consistent base for remediation. Grade to provide positive drainage away from the building pad according to the Earth Moving specification.
2. Perform lime stabilization on the top 16" of graded soils, at a 6% rate, across the building pad and (5) feet outside the building pad. Provide (90) day warranty for lime stabilization.
3. At areas of the building pad to receive fill to meet design subgrade, use engineered fill consistent with the Earth Moving specification.

All excavations shall be performed in accordance with the Earth Moving specification (section 312000) and overseen and approved by the Special Inspector.

The proposal shall not include Extended General Conditions. Overhead shall be considered in accordance with section 10 of the General Conditions.

Please provide pricing by close-of-business on Monday, November 17.

ACTIONS

# Proposal Request

## Sent and Closed

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DATE:	11/14/2014	DUE BACK:	--
FROM:	Harding Dowell (EOP Architects)		
RECIPIENTS:	Rob Price (Marrillia Design and Construction); Josh Marrillia (Marrillia Design and Construction); Brian Gravitt (Marrillia Design and Construction); Travis Harris (Marrillia Design and Construction); Jim Martin (Marrillia Design and Construction)		
REMARKS:	--		



**Alternates**  
 LEUCG Replacement Senior Citizen Center  
 Lexington, KY

11/17/2014  
 4:09 PM

*Pending Owner Approval*  
**PR-02b Level the Existing Soil Materials Under the Building Pad and Provide 16" of Lime Stabilization per Proposal Request No. 05 - Option 2 (Aggregate Engineered Fill)**

Level the Existing Soil Materials Under the Building Pad and Provide 16" of Lime Stabilization per Proposal Request No. 05 - Option 2 (Aggregate Engineered Fill)

	Quantity	Units	Hr. Rate	Labor	MP	Materials	Subcontractor	Total
<b>Assumed Completion Date of the Remediation Portion of the Change Order Work =</b>								
			10/23/14					
			11/26/14					
<b>Total Schedule Impact of Unsuitable Soils =</b>								
	34	days						
<b>Direct On-Site Payroll Costs as a Result of the Unsuitable Soil Schedule Delay and Remediation Work*</b>								
*Excludes Cost of Principal (J. Marrillia) and General Managers (R. Price and B. Gavitt) per Section 10.5.1 but includes Superintendents (J. Martin and T. Harris) at the Site per Section 10.4.1 of the General Conditions								
<b>Site Excavation and Preparation for Lime Stabilization</b>								
<b>Grade (Cut/Fill) and Level the Existing Soil in Preparation of the Lime Stabilization - Croucher</b>								
Use Stone Engineered Fill Material in Lieu of Lime Dried Lean Clay Fill - Croucher	1	ls		9,300.00			9,300	
	1	ls		25,800.00			25,800	
<b>Lime Stabilization and Lime Drying of Engineered Soil Materials</b>								
Provide a Lime Modified Subgrade at the Existing, In-Situ Elevation - Mr. Carmel Stabilization								
	3,000	sy		9.35			28,050	
<b>Lime Stabilized Subgrade Protection with Aggregate per Mr. Carmel Stabilization Recommendations</b>								
<b>Total Area to Receive Aggregate Topping =</b>								
6.0 inches of KY-DOT Aggregate No. 57 (Rate of Application Estimated at 115 lbs/sy per inch of Depth)	1,035	in		16.00			15,525	
Labor and Equipment to Place the Aggregate - Croucher Excavating	12	hr		120.00			1,440	
	0			0			89,721	89,721

	Cost of In-Place Construction (Labor, Materials and Equipment) =	
Marrillia Design and Construction Overhead Percentage =	89,721	10.0%
Overhead - Marrillia Design and Construction =	8,972	5.0%
Marrillia Design and Construction Profit Percentage =	4,486	144
Profit - Marrillia Design and Construction =	144	N/A
General Liability Insurance (Construction) =	144	N/A
Builder's Risk Insurance =	144	N/A
Performance and Payment Bond (Rate of \$9.40 per \$1000 of Cost for \$0 - \$2,500,000) =	N/A	745
Performance and Payment Bond (Rate of \$9.15 per \$1000 of Cost for \$2,500,000 - \$5,000,000) =	N/A	745
Performance and Payment Bond (Rate of \$7.20 per \$1000 of Cost for \$5,000,000 and up) =	N/A	13
KY Surcharge on Project Bonds (1.8% of Bond Cost) =	13	37
Local Municipality Tax on Project Bonds (5% of Bond Cost) =	37	
<b>Total Construction Cost =</b>	<b>104,264</b>	
Marrillia Voluntary Deduct =	11,875	
<b>Revised, Total Construction Cost =</b>	<b>102,869</b>	

**\*\*Quotation\*\***



The Leading Stabilization Company in North America Since 1949

PO Box 458 • Mt. Carmel, IL 62863 • Phone - (618) 262-5118 • Fax - (618) 263-4084 • [www.mtcsg.com](http://www.mtcsg.com)

Date	11/17/2014 Revised	Job Name	LFUCG Senior Center
Company	Marillia Design & Construction	Location	Lexington, KY
Attention	Rob Price	County	Fayette
Address	259 West Short Street Ste. 325 Lexington, KY 40507	Phone	859-685-0414
Email	<a href="mailto:rprice@marrillia.com">rprice@marrillia.com</a>	Fax	

Item/Code	Description	Unit Price	*Quantity	Unit	Extended
1	Lime Modified Subgrade (6% LKD)	\$9.35	3,000	SY; 16"	\$28,050.00
2	Lime Drying Fill Soils with LKD	\$144.00	150	TON	\$21,600.00
<b>NOTES:</b>	Pricing includes compaction and rough grading, fine grading by others. Pricing for item 2 includes drying fill soils to achieve compaction and stability. Quantity is estimated based on approximately 1,800 CUYD of fill to be treated with 4-6% LKD based on contractor provided information.				

\*Actual Quantities to Be Measured in The Field

Mobilizations Included: 1 Additional Mobilizations: \$7,000

**Quote Terms and Conditions**

- MCSG will not cut/mix over any gas, electric or fiber optic lines regardless of depth. All utilities and other underground obstacles must be clearly marked and identified to our supervisor prior to the start of our operations.
- MCSG cannot treat frozen soils regardless of chemical.
- A water source on the job must be provided, hauling water from off-site not included.
- Due to the addition of material and the displacement of existing soil, an elevation change of 1 to 2 inches per 12 to 16 inch lift is expected Mt. Carmel Stabilization is not responsible for removal of excess material.
- If the job is non-taxable, a tax exempt certificate must be provided.
- Payment to Mt. Carmel Stabilization Group, Inc. is required within 30 days of the completion of our operation. No retainage held. Payment to Mt. Carmel Stabilization is not contingent upon the prime contractor being paid by the owner.
- All prices are valid for 30 days from the above date.
- On jobs requiring performance and payment bonds, Mt. Carmel will secure its own bonding and include that cost in the price quoted above.
- Price does not include engineering or testing or traffic control unless noted.
- Mt. Carmel Stabilization will provide certificates of insurance covering our work, including broad form additional insured coverage, but will not provide such coverage on CG20 10 form or CG 2037 form.
- The above quote includes the cost of Mt. Carmel Stabilization Group's insurance. If this project falls under an Owner Controlled Insurance Program, we will have to increase our price to cover our increased insurance costs due to the Owner Controlled Insurance Program.
- A signed copy of this proposal or a contract from your office confirms acceptance of this quotation.

Thank you for the opportunity to quote this project. We look forward to serving you.

Neil Ryan  
Vice President  
Mt. Carmel Stabilization Group  
[nryan@mtcsg.net](mailto:nryan@mtcsg.net)

Office: (618) 262-5118  
Fax: (618) 263-4084  
Mobile: (317) 664-0223

Accepted By \_\_\_\_\_ Date \_\_\_\_\_

## Josh Marrillia

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**From:** Neil Ryan <nryan@mtcsg.net>  
**Sent:** Monday, November 17, 2014 9:50 AM  
**To:** Josh Marrillia  
**Subject:** Marillia LFUCG Senior Center 11-14 Revised.pdf - Adobe Acrobat Professional  
**Attachments:** Marillia LFUCG Senior Center 11-14 Revised.pdf

Good Morning Josh

Our revised quote with the added line for lime drying the fill soils is attached as we discussed this morning.

Our proposal includes Lime Modifying the existing subgrade to a depth of 16" with 6% LKD. This will serve as the bottom of fill for the remaining 18-24" of fill to be placed to achieve subgrade elevation. Immediately following treatment of the subgrade, fill soils should be placed and treated with LKD at our field determined application rate to achieve compaction and stability. Provided the fill soils can be placed by the site contractor, the entire operation should take 1-2 days.

Winter temperatures do not provide a good curing environment for the lime treated soil. In order to protect the subgrade after we treat it, I recommend placing 4-6" of aggregate base by means of tailgating as soon as practically possible. Following that, heavy equipment should be kept off the subgrade for a minimum of 3 days. After that you can proceed with any subsequent construction processes.

These procedures above have been followed for many projects with good success in the past. We actually had a video produced last year on this topic and it's on our home page of our website [www.mtcsg.com](http://www.mtcsg.com) if you would like to view it. The city's request for a 90 day warranty of the lime treated subgrade is not something that I can provide because of the time of the year and also because I have no control over what is done on the site after we finish. What I can provide is our willingness to assist in every way possible to provide a high quality subgrade to expedite your job.

Please let me know if you have any questions and thank you.

Neil Ryan  
Vice President  
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[www.mtcsg.com](http://www.mtcsg.com)



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## Josh Marrillia

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**From:** Joe@croucherexcavating.com  
**Sent:** Monday, November 17, 2014 12:54 PM  
**To:** Josh Marrillia  
**Subject:** PR#05 Senior living center

Cut/ fill building +5 feet out side building footprint to a level grade (slight slope to allow for run off) \$9300.00 Use stone, (material already proctored by Thelan) in place of clay as fill material on top of chemically stabilized sub grade \$25,800.00

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Per Joe Croucher phone call on November 17, 2014, add \$3,000 for additional costs to work with Mt. Carmel Stabilization to add the lime necessary to dry the soils in each soil lift. There are approximately 4 lifts required. There is a cure time for the lime dried soils of approximately 3 hours per lift.