

**CONSENT ITEM B-4**

**December 15, 2025**

**OLDHAM COUNTY BOARD OF EDUCATION**

**CONCERN**

Consider Approval of Change Order #5 to the Site Access Improvements at Various Elementary Schools Ph. 2 project.

**DISCUSSION**

Change Orders are a necessary and beneficial tool to adjust the scope of work and modify contracts or direct purchase orders (DPO) accordingly during the capital construction process.

During the Change Order Request process the Design Team and Director of Facilities Management scrutinize the adjustments to the scope of work, the cost implications, and the contract obligations of all parties. Once all parties agree to the terms, Change Order Requests that are in the best interest of the Board of Education, improve the school/district's beneficial use, and/or necessary for the successful completion of the project in accordance with the Owner/Contractor Agreement, a recommendation is brought to the Board of Education for approval. Change Order Requests that do not meet this criterion are rejected outright or brought to the Board with a recommendation to reject.

Change Order #5 proposes an additional cost of \$155,619.45 and changes to the Substantial Completion date for the Site Access Improvements at Various Elementary Schools Ph. 2 project. Please refer to the backup documentation for more information regarding each request.

**RECOMMENDATION**

RossTarrant Architects and Brent Bohannon, District of Facilities Management, recommends approval of Change Order #5 in the total amount of \$155,619.45 and a change to the Substantial Completion date to the Redlee Construction & Development, Inc. contract, for submission to the Kentucky Department of Education, District Facilities Branch, Division of District Support and hereby authorize the Director of Facilities Management to execute the necessary documentation.

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On a motion by \_\_\_\_\_, seconded by \_\_\_\_\_, the Board approved Change Order #5 in the total amount of \$155,619.45 and a change in the Substantial Completion date to the Redlee Construction & Development, Inc contract for the Site Access Improvements at Various Elementary Schools Ph. 2 project, for submission to the Kentucky Department of Education, and hereby authorize the Director of Facilities Management to execute the necessary documentation. ( , )

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*Carly Clem, Board Chair*

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*Claudette Herald, Superintendent, Board Secretary*



## CHANGE ORDER

DATE: 12/2/25 CO #: Five (05)  
TO: Redlee Construction & PROJECT: Oldham Co. Elementaries Site  
Development, Inc. & Access Imp. – Phase 2  
800 Stonecreek Parkway, Suite 5A Oldham County, Kentucky  
Louisville, Kentucky 40223 BG 24-109  
RTA 23050  
CONTRACT DATE: September 20, 2024 CONTRACT FOR: General Construction

### THE CONTRACT IS CHANGED AS FOLLOWS:

*(Include, where applicable, any undisputed amount attributable to previously executed Construction Change Directives.)*

1. Goshen Fence Changes (FO #13): \$3,912.30
2. Goshen Mound Construction: \$2,916.40
3. Harmony ES PIP depth: \$7,607.25
4. Buckner Unsuitable Soils: \$36,247.50 plus 7 days
5. Crestwood Unsuitable Soils: \$57,600.00 plus 10 days
6. Camden Station Unsuitable Soils: \$99,585.00 plus 21 days
7. Locust Grove Unsuitable Soils: \$26,001.00 plus 7 days
8. Unused Allowance #1: (\$60,000)
9. At the direction of the Board of Education, they are assessing Liquidated Damages from monies otherwise due for 73 days, through October 10, 2025, at \$250/day = (\$18,250)

TOTAL AMOUNT OF THIS CHANGE ORDER: **\$155,619.45**

The original Contract Sum was	\$8,463,000.00
The net change by previously authorized Change Orders	\$137,368.98
The Contract Sum prior to this Change Order was	\$8,600,368.98
The Contract Sum will be <b>Increased</b> by this Change Order in the amount of	\$155,619.45
The new Contract Sum including this Change Order will be	\$8,755,988.43
The Contract Time will be <b>Increased</b> by	-45 days-
The Date of Substantial Completion as of the date of this Change Order is therefore	July 29, 2025

NOTE: This Change Order does not include changes in the Contract Sum, Contract Time or Guaranteed Maximum Price which have been authorized by Construction Change Directive until the cost and time have been agreed upon by both the Owner and Contractor, in which case a Change Order is executed to supersede the Construction Change Directive.

### NOT VALID UNTIL SIGNED BY THE ARCHITECT, CONTRACTOR AND OWNER.

RossTarrant Architects, Inc.  
101 Old Lafayette Avenue  
Lexington, Kentucky 40502

**ARCHITECT** (Firm name and address)

  
BY (Signature)

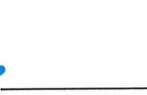
Redlee Construction & Development  
800 Stonecreek Parkway, Suite 5A  
Louisville, Kentucky 40223

**CONTRACTOR** (Firm name and address)

  
BY (Signature)

Oldham County Board of Ed.  
6165 W Hwy 146  
Crestwood, Kentucky 40014

**OWNER** (Firm name and address)

  
BY (Signature)



## CHANGE ORDER

Beth Bauer

(Typed or printed name)

12/4/2025

DATE

Charles Frith

(Typed or printed name)

12/4/25

DATE

(Typed or printed name)

DATE

# FACPAC Contract Change Order

## Supplemental Information Form (Ref# 63792)

Form Status: Saved

Tier 4 Project: Site/Access Improvements at Various Elementary Schools PH 2

BG Number: 24-109

District: Oldham County (HB678) (465)

Status: Active

Phase: Project Initiation (View Checklist)

Contract: Redlee Construction & Development, Inc., 0002, Site & Access Improvements

Phase 2

Type: General Contractor

Proposed

Change Order Number	5
Time Extension Required	Yes
If Yes Number Of Days	45
Date Of Change Order	12/2/2025
Change Order Amount To Date	Increase

### Construction Contingency

Calculations below are project wide. Remaining negative Construction Contingency may require the submission of a revised BG1.

Current Approved Amount	\$423,150.00
Net Approved COs	\$168,784.93
Remaining After Approved COs	\$254,365.07
Net All COs	\$324,404.38
Remaining After All COs	\$98,745.62

This Requested Change Order Amount \$155,619.45

+/-

Change In A/E Fee This Change Order \$12,933.37

+/-

Change In CM Fee This Change Order

+/-

Remaining Construction Contingency \$130,161.57

Balance

Contract Change Requested By Architect/Engineer; General Contractor; Local Board of Education

Contract Change Reason Code Expansion of Scope; Found Condition

Change Order Description And Justification

1. Goshen Fence Changes (FO #13): \$3,912.30

2. Goshen Mound Construction: \$2,916.40

3. Harmony ES PIP depth: \$7,607.25

4. Buckner Unsuitable Soils: \$36,247.50 plus 7 days

5. Crestwood Unsuitable Soils: \$57,600.00 plus 10 days
6. Camden Station Unsuitable Soils: \$99,585.00 plus 21 days
7. Locust Grove Unsuitable Soils: \$26,001.00 plus 7 days
8. Unused Allowance #1: (\$60,000)
9. At the direction of the Board of Education, they are assessing Liquidated Damages from monies otherwise due for 73 days, through October 10, 2025, at \$250/day = (\$18,250)

Cost Benefit To Owner

Pricing has been reviewed and is acceptable.

Contract unit prices have been utilized. No  
to support the cost associated with this  
change order.

## Detailed Cost Breakdown

Contract unit prices have not been utilized, provide a detailed cost breakdown which separates labor, material, profit and overhead.

Detail Item	Amount	Percent of Total
Labor	(\$16,000.00)	-10.28%
Materials	\$169,736.50	109.07%
Profit and Overhead	\$1,882.95	1.21%
Bond Insurance		0.00%
<b>Cost Breakdown Total:</b>	<b>\$155,619.45</b>	

Cost for this Change Order supported No  
by an alternate bid or competitive price  
quote  
Explain Why

**Change Order Supplemental Information Form Signature  
Page (Online Form Ref# 63792)**

*Beth Bauer*

Architect

12/4/2025

Date

n/a

Construction Manager

—

Date

Finance Officer

—

Date

Local Board of Education Designee

—

Date



August 27, 2025

Beth Bauer  
RossTarrant Architects  
101 Old Lafayette Avenue  
Lexington, KY 40502

Re: 23050 | OCBE | OC Elementaries: Site Access Improvements – Phase 2 | Goshen-FO-013  
Fence Changes

Beth,

The cost of reconfiguring fencing and installing additional 10' fence at Goshen per FO-013 is as follows:

FO-013-Goshen Fencing Changes	
EAC-Labor	\$ 750.00
EAC-Material	\$ 1,802.00
Redlee-Remove Bollards and Patch-Labor	\$ 600.00
Redlee-Remove Bollards and Patch-Materials Misc.	\$ 250.00
Subtotal	\$ 3,402.00
OHP	\$ 510.30
Total	\$ 3,912.30

Please let me know if you would like to do this work.

Sincerely,

Charles Frith

Re: Fw: Fencing Reconfiguration at Goshen

Tom Jarnagin <[tom@eacfence.com](mailto:tom@eacfence.com)>  
To Charles Frith

 If there are problems with how this message is displayed, click here to view it in a web browser.  
[Click here to download pictures.](#) To help protect your privacy, Outlook prevented automatic download of some pictures in this message.

Charles,

The add would be \$2,552.00

Labor \$750.00  
Materials \$1,802.00

Thanks,

Tom Jarnagin  
EAC Fence  
[tom@eacfence.com](mailto:tom@eacfence.com)  
Office-812-984-3014  
Cell-502-552-9032

Everything fence, gates and access controls/gate operators

Right-click  
or tap  
and hold  
long to c...

Wed 8/27/2025 10:14 AM



October 14, 2025

Beth Bauer  
RossTarrant Architects  
101 Old Lafayette Avenue  
Lexington, KY 40502

Re: 23050 | OCBE | OC Elementaries: Site Access Improvements – Phase 2 | Goshen PIP mound construction rev3

Beth,

The cost of building mounds at Goshen Elementary is as follows:

Goshen-PIP Mound Construction	
Credit #57 Stone-\$89 CY @ 30 CY	\$ (2,670.00)
Credit Earth Fill-\$67 CY @ 117 CY	\$ (7,839.00)
Add DGA Fill-\$89 CY @ 117 CY	\$ 10,413.00
3/4" Cement Cap- 6 Pallets of Grout @ \$866.00	\$ 1,732.00
Labor to install Grout	\$ 900.00
Subtotal	\$ 2,536.00
OHP	\$ 380.40
Total	\$ 2,916.40

Please let me know if you would like to do this work.

Sincerely,

Charles Frith



October 14, 2025

Beth Bauer  
RossTarrant Architects  
101 Old Lafayette Avenue  
Lexington, KY 40502

Re: 23050 | OCBE | OC Elementaries: Site Access Improvements – Phase 2 | Harmony Fall Heights

Beth,

The cost of additional safety foam for fall heights at Harmony Elementary is as follows:

Additional Safety Foam at Harmony	
Midstates-material only	\$ 3000.00
ForeverLawn-material only	\$ 3615.00
Subtotal	\$ 6615.00
OHP	\$ 992.25
Total	\$ 7607.25

Please let me know if you would like to do this work.

Sincerely,

Charles Frith



July 15, 2025

Beth Bauer  
RossTarrant Architects  
101 Old Lafayette Avenue  
Lexington, KY 40502

Re: 23050 | OCBE | OC Elementaries: Site Access Improvements – Phase 2 | Harmony add PIP for Fall Heights

Beth,

The cost to add PIP to adjust for fall heights on the existing equipment at Harmony Elementary is as follows:

Harmony PIP add for Fall Heights	
Midstates Material Add. See attached	\$ 3,000.00
	\$ -
Subtotal	\$ 3,000.00
OHP	\$ 450.00
Total	\$ 3,450.00

Please let me know if you would like to do this work.

Sincerely,

Charles Frith



1279 Hazelton-Etna Road SW  
Pataskala, OH 43062  
614-855-3790  
www.midstatesrecreation.com

## QUOTATION

<b>Sold To</b>	Redlee Construction 800 Stone Creek Pkwy Louisville, KY, 40223 United States	<b>Ship To</b>	Harmony Elementary 1901 KY-1793 Goshen, KY, 40026 United States
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Date	Quote #	Terms	Rep	Project	Ship Contact
2025-06-11	QTN-18264 <b>Valid Until</b> 07-11-2025	Net 10	Brian King	2025 01 Oldham Co Harmony Elementary - Ky Redlee Construction	Charles Frith 502-649-3848

Item Code	Description	Qty	Rate	Amount
Notes	CHANGE ORDER - Harmony Elementary	1.0 Unit	\$ 0.00	\$ 0.00
Notes	To comply with safety standards, up to 800 square feet of surfacing must be upgraded to accommodate the increased fall height for the Playcraft structure—from 4' CFH to 8' CFH—requiring the use of thicker impact-attenuating material in that area. *Customer responsible for security of site during installation and curing (48-72 hours after installation completion).	1.0 Unit	\$ 3,000.00	\$ 3,000.00

**Subtotal** \$ 3,000.00  
**Kentucky Sales Tax** \$ 0.00  
**Total** \$ 3,000.00

Additional PIP for area under Playcraft structure to satisfy fall height of equipment.  
All Poured-in-place on the above quote is priced with 100% color and Aliphatic Binder Taxes absorbed by Midstates

Additional charges may apply for excessive debris found in work area.

Midstates Recreation responsible for work outlined above

Not responsible for removal and relocation of existing equipment to new locations.

No Site restoration

Customer to locate private utilities

Spoils stay on-site at location approved by GC

Gravel not included

No saw cutting / core drilling

No excavation--GC to prep all sites.

Prevailing wage not figured

Permits not included

Inspections not included

Not responsible for crossing sidewalk

Assumes level ground existing.

### Acceptance of Proposal

**QUOTATION**

(Please be sure you have read, signed, and initialed and understand the terms and conditions) The items, prices, and conditions listed herein are satisfactory and are hereby accepted.

Signature (Approval) \_\_\_\_\_  
Printed Name \_\_\_\_\_  
Title \_\_\_\_\_  
Date \_\_\_\_\_

**TERMS AND CONDITIONS****QUOTE CONDITIONS AND ACCEPTANCE:**

**This quote is only valid for 30 days.**

\*\*\* \_\_\_\_\_ (Pls Initial) It is the Buyer's responsibility to verify quantities and description of items quoted. Once your order has been placed, any changes including additions, deletions, or color changes, could result in price increases, additional fees and could cause delays.

**EXCLUSIONS : Unless specified, this quote excludes all of the following but not limited to:**

Required Permits/Inspections, Background Checks, Davis Bacon, Prevailing Wage or Certified Payroll

Performance/Payment Bonds

Site Restoration

Site work, saw cutting/core drilling, and landscaping.

Removal of existing equipment

Unloading; Receiving of inventory or equipment; Storage of equipment.

Equipment assembly and/or installation

Safety surfacing; Borders or drainage requirements

Landscaping Repairs DUE to poor access or in climatic weather

**FREIGHT AND DELIVERY: (if applicable)**

Shipping is FOB Origin (means the buyer accepts the title of the goods at the shipment point and assumes all risk once the seller ships the product). All equipment will arrive unassembled.

\*\*\* \_\_\_\_\_ (Pls Initial) Buyer is responsible to meet and provide adequate personnel/equipment to unload truck  
A Check List, detailing all items shipped, will be included with the shipment. Unless taking delivery is specifically included in quote.

Buyer is responsible for ensuring the Sales Order Breakdown and Item Numbers on all boxes and pieces match the Check List.

\*\*\* \_\_\_\_\_ (Pls Initial) Shortages or damages must be noted on the driver's delivery receipt. Shortages or damages not noted become the buyers financial responsibility.

Please notify Midstates Recreation immediately of any damages.

Shortages and Concealed Damage must be reported to Midstates Recreation within 10 days of delivery.

A reconsignment fee will be charged for any changes made to delivery address after order has been placed.

**TAXES:**

All orders are subject to applicable sales tax unless a tax exemption form is on file at the time the order is placed.

**PAYMENT TERMS:**

**QUOTATION**

An approved Credit Application is required for new customers or customers that haven't been active in the last 18 months. Terms are check with order, or 50% down payment with approved credit (terms do vary based on references). Balance of product & freight will be invoiced upon shipment, due Net 10 days. 100 % prepayment required on Replacement Parts. A 3% charge will be added to all credit card orders over \$ 3,000.

**For all non-taxpayer-funded entities: A 1.5% monthly service charge will be assessed on all balances over 30 days.**

**RESTOCKING:** Items canceled, returned or refused will be subject to a minimum 25% restocking fee. All return freight charges are the responsibility of the Buyer.

**MAINTENANCE/WARRANTY:**

Manufacturer's standard product warranties apply and cover equipment replacement and freight costs only; labor is not included.

Midstates Recreation offers no additional warranties.

Maintenance of the equipment and safety surfacing is the responsibility of the customer.

Any unauthorized alterations or modifications to the equipment (including layout) will void your warranty.

**Site Preparation & Third-Party Work Disclaimer:**

If excavation, grading, or material placement is performed by a party other than Midstates Recreation, **all work must be coordinated with Midstates Recreation** to ensure alignment with project requirements. We are not responsible for any delays, performance issues, or additional costs resulting from improper compaction, grading, or site preparation by others. Any deficiencies in third-party work that impact our ability to install as specified may require correction at the owner's expense.

**INSTALLATION: (if applicable)**

**Spoils are to remain onsite.**

**Permits/inspections are the owner's responsibility and associated costs.**

Customer must locate all underground private utilities before your scheduled installation a third-party private utility service can be provided at an additional cost if necessary. Additional charges may apply if obstruction(s) are encountered beneath the surface. Not responsible for damaged/broken parts on existing playground equipment. Not responsible for crossing sidewalks.

**Acceptance of Terms & Conditions**

Acceptance of this proposal, made by an authorized agent of your company, indicates agreement to the above terms and conditions.

Customer Signature  
Updated:

Printed Name and Title

Date



September 22, 2025

Beth Bauer  
RossTarrant Architects  
101 Old Lafayette Avenue  
Lexington, KY 40502

Re: 23050 | OCBE | OC Elementaries: Site Access Improvements – Phase 2 | Harmony Equipment Add-Safety Foam

Beth,

The cost of adding 2" safety foam at the new equipment at Harmony Elementary is as follows:

Harmony Equipment Add-Safety Foam	
420 sf of 2" safety foam-material only (see attached)	\$ 3,615.00
Subtotal	\$ 3,615.00
OHP	\$ 542.25
Total	\$ 4,157.25

Please let me know if you would like to do this work.

Sincerely,

Charles Frith



## Pricing Agreement

<b>Date:</b>	09/17/2025
<b>Location:</b>	Harmony Elementary School 1901 South Highway 1793 Goshen, Ky 40026
<b>Contact:</b>	Charles Frith – Redlee Construction
<b>Project Description:</b>	Additional Safety Foam Required for New Equipment on Turf Playground
<b>Project Size:</b>	420 SF
<b>Price:</b>	\$3,615.00
<b>Pricing Includes:</b>	85 panels of 2" safety foam required to meet the 6' 2" fall height of the new piece of equipment being installed in the turf playground at Harmony
<b>Notes:</b>	Any changes to the project scope may incur additional charges.
<b>Expiration:</b>	This pricing is guaranteed for 30 days from date above.
<b>Project Timeline:</b>	Project will be scheduled upon receipt of the down payment and may vary depending on availability of turf and crew.
<b>Note:</b>	If team arrives for installation and the area is not prepared for installation, there will be a remobilization fee of \$2,500.00 that will be charged.
<b>Client to Provide:</b>	<ul style="list-style-type: none"><li>- Easy access to work area for crew and equipment and staging area for materials (turf, stone, etc...).</li><li>- Any changes to scope of work prior to start of project.</li><li>- Access to water hookup and electricity.</li><li>- Any Rock Excavation.</li><li>- Any Weather Protection.</li><li>- Any handling or removal of spoils.</li><li>- Any contingency items.</li><li>- Any maintenance or removal or erosion control.</li><li>- Any site furnishings.</li><li>- Any traffic control.</li><li>- Any Surveying or layout.</li><li>- Any asbuilt surveys.</li><li>- Any drainage testing.</li></ul>

ForeverLawn Central Kentucky  
[Foreverlawn.com](http://Foreverlawn.com)

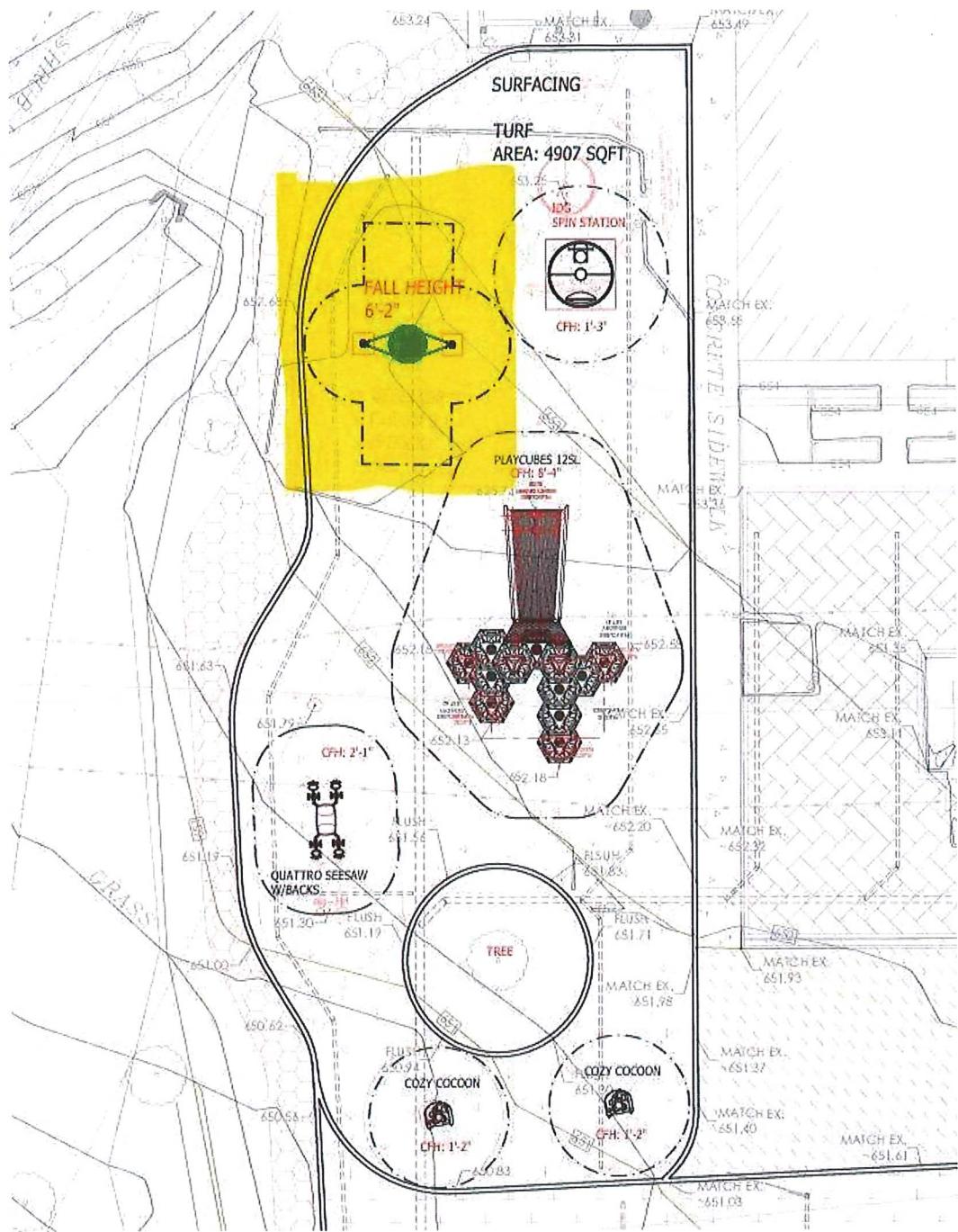
**Standard Qualifications:** Quote is valid for 30 days at which time it is subject to change. This proposal is for the current year only and is subject to change if this work extends into 2026. Subgrade will be inspected prior to the start of work. Any deviations will be a basis for change and the price will be adjusted accordingly. This proposal is contingent upon being awarded all work quoted. Pricing is subject to change if scope is changed. Payment Terms for all invoices are net 30, all overdue invoice amounts will be subject to a 2% per month finance charge. This proposal is based on a 40 Hour work week. This proposal is contingent upon successful scope review meeting and mutually agreeable contract terms. All final quantities shall be field measured and billed accordingly. This proposal is based on non-prevailing wages.

**Remit Payment To:**

ForeverLawn Central Kentucky  
1760 Davis Road, Sadieville, KY 40370

The logo for ForeverLawn, featuring the word "ForeverLawn" in a blue, serif font with a registered trademark symbol.A decorative graphic of a lawn with three black rectangular blocks placed on the grass.

Grass without limits.®





November 7, 2025

Kevin McCalla  
RossTarrant Architects  
101 Old Lafayette Avenue  
Lexington, KY 40502

Re: 23050 | OCBE | OC Elementaries: Site Access Improvements – Phase 2 | Buckner Elementary-  
Unsuitable Soils Remediation and Rock Removal with Days added

Kevin,

The cost of Remediation at Buckner Elementary is as follows:

COR-Remediate Unstable Soils & Rock Removal-Buckner Elem.	
\$150/CY-19 CY of Rock	\$ 2,850.00
\$52.50/CY-19 CY DGA 8" compacted lifts	\$ 997.50
\$120/CY-270 CY removed and replaced	\$ 32,400.00
Days increase by 7 days-5/6/25 to 5/13/25	
Total	\$ 36,247.50

Please let me know if you would like to do this work.

Sincerely,

Charles Frith

**BARY BUILT LLC**  
**JEFFERSONVILLE INDIANA**  
**502-639-4111**  
**www.BaryBuiltLLC.com**

5/20/25

Remediation of Buckner Elementary Playground Area

By the directive of Redlee Construction and per the Field Report dated March 28, 2025 by Solid Ground Consulting Engineers and under their supervision the following remediation of unsuitable soils was performed at Buckner Elementary.

~~397 cu yds Removed and replaced~~

Breakdown of rock removal/unsuitable and debris laden as follows:

Rock Removal visualized by Solid Ground Consulting Engineers

Wyatt Hon

Removal of ~~75 cu yds~~ @ ~~250.00 per~~ ~~19cy~~ @ \$150/cy

~~\$ 18,750.00~~ ~~\$2850.00~~

Replace ~~75 cu yds~~ 8" Compacted lifts @

~~\$ 3,937.50~~ ~~\$997.50~~

~~19cy~~

Undercut of ~~322~~ cu yards of unsuitable and debris laded materials.

Replaced with 8" compacted lifts of DGA.

Unit price submitted ~~\$107.00~~ per cu yd

~~322 cu yards removed and replaced @ \$107.00~~

~~\$ 34,454.00~~ ~~\$32,400.00~~

~~270cy removed and replaced @ \$120/cy~~

Total

~~\$ 57,141.50~~ ~~\$36,247.50~~

Thank you,

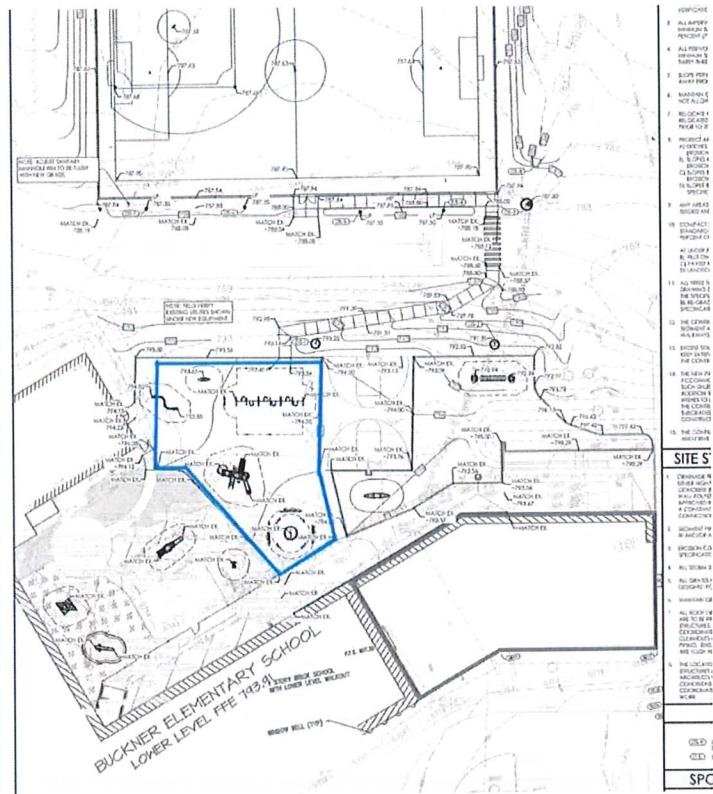
Michael Bary  
Bary Built LLC  
502-639-4111  
michael@barybuiltllc.com

Rock Removal:  
16x9x2/27=10.66cy  
16x7x2/27=8.29cy

**Company:** Solid Ground CE  
**Contact:** Wyatt Hon  
**Phone:** 8597793496  
**Email:** wyatt@solidgroundce.com

**Title:** 24-532 Buckner Elem. 250506 Remediation  
**Group:** Buckner Elem.  
**Created:** Tue, 5/6/2025  
**No. Items:** 5

(1)



## Summary

**Created:**

Tue, 5/6/2025

Solid Ground rep. Was on site today to observe undercut remediation for area Highlighted in Blue on plans.

(2)



**Created:** Tue, 5/6/2025

Area observed for undercut.

Reviewed by



**Company:** Solid Ground CE  
**Contact:** Wyatt Hon  
**Phone:** 8597793496  
**Email:** wyatt@solidgroundce.com

**Title:** 24-532 Buckner Elem. 250506 Remediation  
**Group:** Buckner Elem.  
**Created:** Tue, 5/6/2025  
**No. Items:** 5

(3)



**Created:** Tue, 5/6/2025

2 areas of bed rock encountered.  
Area 1 (right) 16' x 9'  
Area 2 (left) 16' x 7'

(4)



**Created:** Tue, 5/6/2025

**Company:** Solid Ground CE

**Title:** 24-532 Buckner Elem. 250506 Remediation

**Contact:** Wyatt Hon

**Group:** Buckner Elem.

**Phone:** 8597793496

**Created:** Tue, 5/6/2025

**Email:** wyatt@soildgroundce.com

**No. Items:** 5

---

Rock excavated with excavator hammer.

(5)



**Remarks**

**Created:** Tue, 5/6/2025

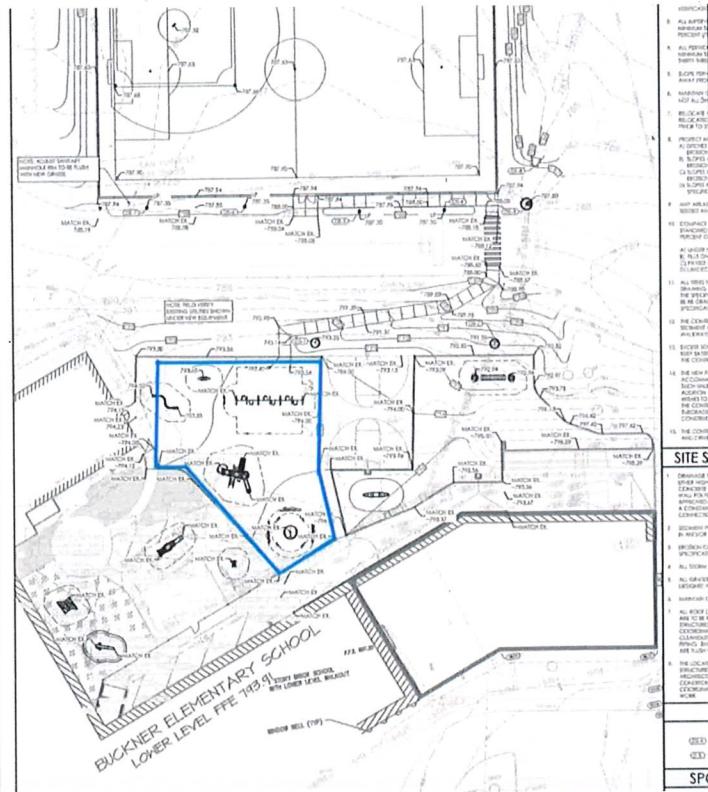
Contractor observed excavating unsuitable material for undercut of playground area.

Observations will continue as scheduled, weather permitting.

**Company:** Solid Ground CE  
**Contact:** Wyatt Hon  
**Phone:** 8597793496  
**Email:** wyatt@solidgroundce.com

**Title:** 24-532 Buckner Elem. 250507 Remediation  
**Group:** Buckner Elem.  
**Created:** Wed, 5/7/2025  
**No. Items:** 8

(1)



## Summary

**Created:**  
Wed, 5/7/2025

Solid Ground rep. Was on site today to observe undercut remediation for area Highlighted in Blue on plans.

(2)



**Created:** Wed, 5/7/2025

Contractor observed loading undercut material.

**Company:** Solid Ground CE  
**Contact:** Wyatt Hon  
**Phone:** 8597793496  
**Email:** wyatt@solidgroundce.com

**Title:** 24-532 Buckner Elem. 250507 Remediation  
**Group:** Buckner Elem.  
**Created:** Wed, 5/7/2025  
**No. Items:** 8

(3)



**Created:** Wed, 5/7/2025

Proof roll with loaded truck shows material soft with excessive amounts of pumping and rutting 4"-6"

(4)



**Created:** Wed, 5/7/2025

Rutting from proof-roll shown.

**Company:** Solid Ground CE  
**Contact:** Wyatt Hon  
**Phone:** 8597793496  
**Email:** wyatt@solidgroundce.com

**Title:** 24-532 Buckner Elem. 250507 Remediation  
**Group:** Buckner Elem.  
**Created:** Wed, 5/7/2025  
**No. Items:** 8

(5)



**Created:** Wed, 5/7/2025

Area of soft soils encountered after initial undercut was performed.

(6)



**Created:** Wed, 5/7/2025

Area of soft soils encountered after initial undercut was performed.



Reviewed by

**Company:** Solid Ground CE  
**Contact:** Wyatt Hon  
**Phone:** 8597793496  
**Email:** wyatt@solidgroundce.com

**Title:** 24-532 Buckner Elem. 250507 Remediation  
**Group:** Buckner Elem.  
**Created:** Wed, 5/7/2025  
**No. Items:** 8

(7)



**Created:** Wed, 5/7/2025

Dump Truck loaded with approximate average of 15 C.Y per truck. Truck loads removed today totaled 18 trucks.

(8)



#### Remarks

**Created:** Wed, 5/7/2025

Proof roll with loaded truck shows material stiff with minor amounts of pumping and rutting in all areas except previously



**Company:** Solid Ground CE  
**Contact:** Wyatt Hon  
**Phone:** 8597793496  
**Email:** wyatt@solidgroundce.com

**Title:** 24-532 Buckner Elem. 250507 Remediation  
**Group:** Buckner Elem.  
**Created:** Wed, 5/7/2025  
**No. Items:** 8

---

noted areas.

Observations will continue as scheduled, weather permitting.



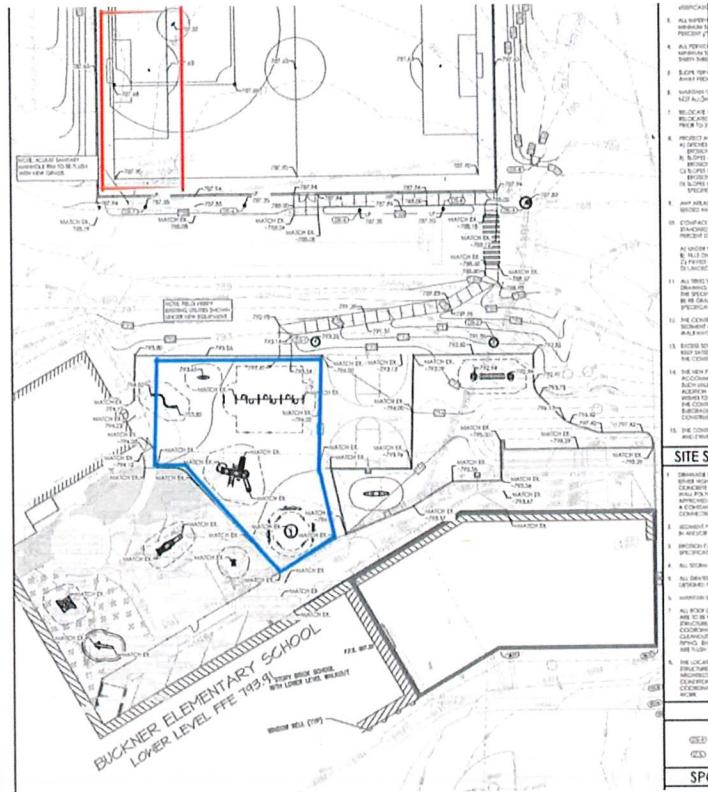
Reviewed by

Doc. Id. 19  
page 5 of 5

**Company:** Solid Ground CE  
**Contact:** Wyatt Hon  
**Phone:** 8597793496  
**Email:** wyatt@soldgroundce.com

**Title:** 24-532 Buckner Elem. 250508 Remediation  
**Group:** Buckner Elem.  
**Created:** Thu, 5/8/2025  
**No. Items:** 9

(1)



### Summary

**Created:**

Thu, 5/8/2025

Solid Ground rep. Was on site today to observe undercut remediation as well as DGA placement for area Highlighted in Blue on plans, fill placement began on area highlighted in Red on plans.

### SITE S

- 1. DRAWSITE IS LOCATED IN THE COUNCIL BLUFFS CITY LIMITS APPROXIMATELY 1.5 MILES NORTHEAST OF THE COUNCIL BLUFFS CITY CENTER.
- 2. IN AN AREA OF APPROXIMATELY 100' X 100'.
- 3. THE SITE IS APPROXIMATELY 100' FROM THE BUCKNER ELEMENTARY SCHOOL PROPERTY LINE.
- 4. THE SITE IS APPROXIMATELY 100' FROM THE BUCKNER ELEMENTARY SCHOOL PROPERTY LINE.
- 5. THE SITE IS APPROXIMATELY 100' FROM THE BUCKNER ELEMENTARY SCHOOL PROPERTY LINE.
- 6. THE SITE IS APPROXIMATELY 100' FROM THE BUCKNER ELEMENTARY SCHOOL PROPERTY LINE.
- 7. THE SITE IS APPROXIMATELY 100' FROM THE BUCKNER ELEMENTARY SCHOOL PROPERTY LINE.
- 8. THE SITE IS APPROXIMATELY 100' FROM THE BUCKNER ELEMENTARY SCHOOL PROPERTY LINE.
- 9. THE SITE IS APPROXIMATELY 100' FROM THE BUCKNER ELEMENTARY SCHOOL PROPERTY LINE.
- 10. THE SITE IS APPROXIMATELY 100' FROM THE BUCKNER ELEMENTARY SCHOOL PROPERTY LINE.
- 11. THE SITE IS APPROXIMATELY 100' FROM THE BUCKNER ELEMENTARY SCHOOL PROPERTY LINE.
- 12. THE SITE IS APPROXIMATELY 100' FROM THE BUCKNER ELEMENTARY SCHOOL PROPERTY LINE.
- 13. THE SITE IS APPROXIMATELY 100' FROM THE BUCKNER ELEMENTARY SCHOOL PROPERTY LINE.
- 14. THE SITE IS APPROXIMATELY 100' FROM THE BUCKNER ELEMENTARY SCHOOL PROPERTY LINE.
- 15. THE SITE IS APPROXIMATELY 100' FROM THE BUCKNER ELEMENTARY SCHOOL PROPERTY LINE.

QED  
SPC

(2)



**Created:** Thu, 5/8/2025

Area of undercut taken to max depth of 24" below subgrade.

Reviewed by



**Company:** Solid Ground CE

**Title:** 24-532 Buckner Elem. 250508 Remediation

**Contact:** Wyatt Hon

**Group:** Buckner Elem.

**Phone:** 8597793496

**Created:** Thu, 5/8/2025

**Email:** wyatt@soildgroundce.com

**No. Items:** 9

(3)



**Created:** Thu, 5/8/2025

Area of undercut at 12" below subgrade.

(4)



**Created:** Thu, 5/8/2025

Area of bedrock removed to 24" below subgrade.

**Company:** Solid Ground CE

**Title:** 24-532 Buckner Elem. 250508 Remediation

**Contact:** Wyatt Hon

**Group:** Buckner Elem.

**Phone:** 8597793496

**Created:** Thu, 5/8/2025

**Email:** wyatt@solidgroundce.com

**No. Items:** 9

(5)



**Created:** Thu, 5/8/2025

Contractor observed placing DGA in 8" loose lifts.

(6)



**Created:** Thu, 5/8/2025

Consolidation efforts on DGA made with smooth drum roller.

**Company:** Solid Ground CE

**Title:** 24-532 Buckner Elem. 250508 Remediation

**Contact:** Wyatt Hon

**Group:** Buckner Elem.

**Phone:** 8597793496

**Created:** Thu, 5/8/2025

**Email:** wyatt@solidgroundce.com

**No. Items:** 9

(7)



**Created:** Thu, 5/8/2025

DGA placed and compacted with smooth drum roller to grade.

(8)



**Lower Area (red)**

**Created:** Thu, 5/8/2025

Proof roll with loaded truck shows material stiff with little to no movement.

**Company:** Solid Ground CE

**Title:** 24-532 Buckner Elem. 250508 Remediation

**Contact:** Wyatt Hon

**Group:** Buckner Elem.

**Phone:** 8597793496

**Created:** Thu, 5/8/2025

**Email:** wyatt@solidgroundce.com

**No. Items:** 9

(9)



**Remarks**

**Created:** Thu, 5/8/2025

Contractor observed placing fill.

Observations will continue as scheduled, weather permitting.



November 7, 2025

Beth Bauer  
RossTarrant Architects  
101 Old Lafayette Avenue  
Lexington, KY 40502

Re: 23050 | OCBE | OC Elementaries: Site Access Improvements – Phase 2 | Crestwood Elementary-Unsuitable Soils Remediation with Days added

Kevin,

The cost of Remediation at Crestwood Elementary is as follows:

COR-Crestwood Elementary Unsuitable Soils Remediation	
\$120/CY-480 CY removed and replaced	\$ 57,600.00
Days increase by 10 days-4/23/25 to 5/3/25	
Total	\$ 57,600.00

Please let me know if you would like to do this work.

Sincerely,

Charles Frith

March 28, 2025

Subject: Field Report  
Oldham County Elementary Schools' Playgrounds  
Oldham County, Kentucky  
Project No.: 24-532

Solid Ground Consulting Engineers (Solid Ground) made a site visit on March 25, 2025, at the request of Mr. Charles Firth with Redlee Construction and Mr. Richard Jackson with Oldham County Schools. We visited three (3) sites today, Crestwood Elementary School, Camden Station Elementary School, and Locust Grove Elementary School to observe present site conditions and to determine recommendations for next steps.

## Crestwood Elementary School

The new playgrounds were generally at or slightly high (4-6") of subgrade elevation. A proof roll with a single axle dump truck was performed. Rutting and pumping of up to 6" was observed. Three test pits were excavated to depths ranging from 16" to 30". Figure 1 below shows the approximate locations of the test pits. The test pits generally showed fill material throughout. A layer of asphalt was observed in all test pits at depths ranging from 8" to 16". In addition, there were some pieces of construction debris observed. Stiff, silty Clay was encountered at termination depths of all three test pits.

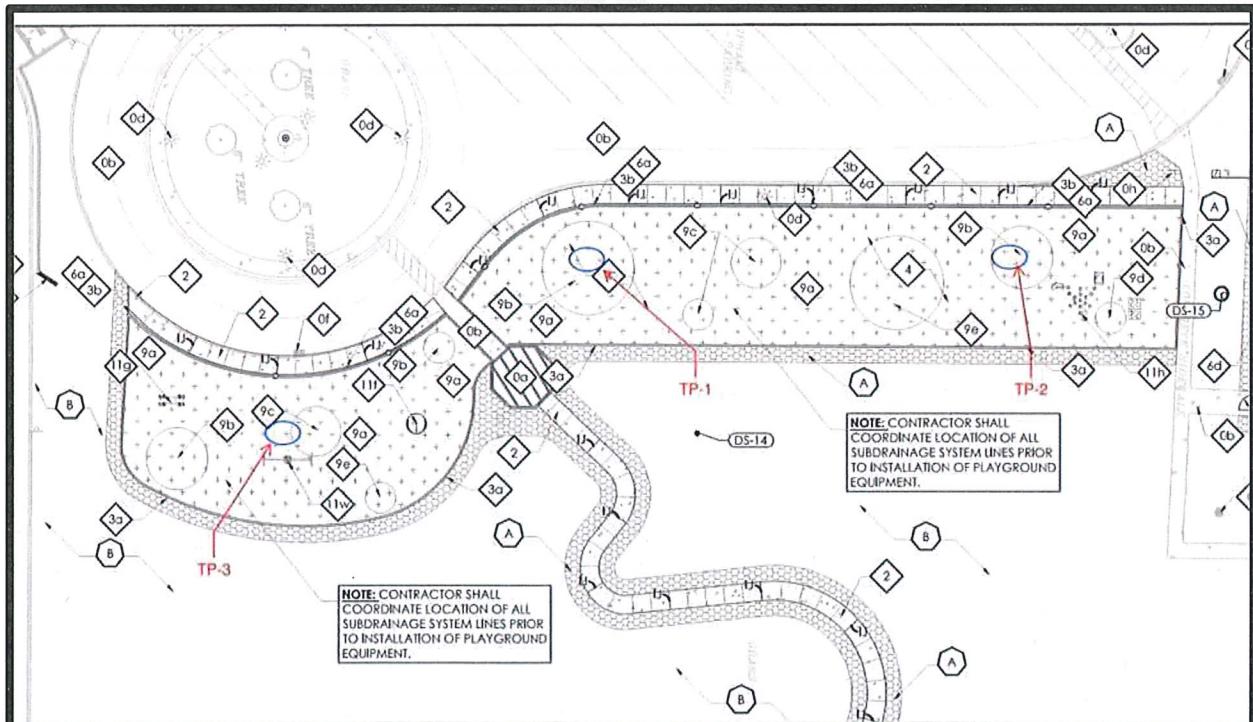


Figure 1: Crestwood Elementary Test Pit Locations

We recommend that the playgrounds be undercut 12" or to where stiff clay is encountered, whichever is less. A proof roll should be performed after the undercut is completed and before any backfill is placed. Backfill material may consist of engineered fill soil or dense graded aggregate (DGA) compacted in 8" loose lifts. A sheepfoot compactor should be used for clay and a smooth drum roller should be used for DGA. Roller compactors should weigh a minimum of 10 tons. The use of #57 stone is appropriate for use as fill at elevations above the top of the drains.

### Camden Station Elementary School

The new playground was generally at or below (12") subgrade elevation. There was standing water and large boulders and cobbles visible during the site walk. A test pit was excavated towards the rear of the playground to a depth of 24". The upper 12" of the subgrade consisted of a soft, wet dark brown clayey silt before increasing in consistency to stiff. Figure 2 shows the general site conditions.

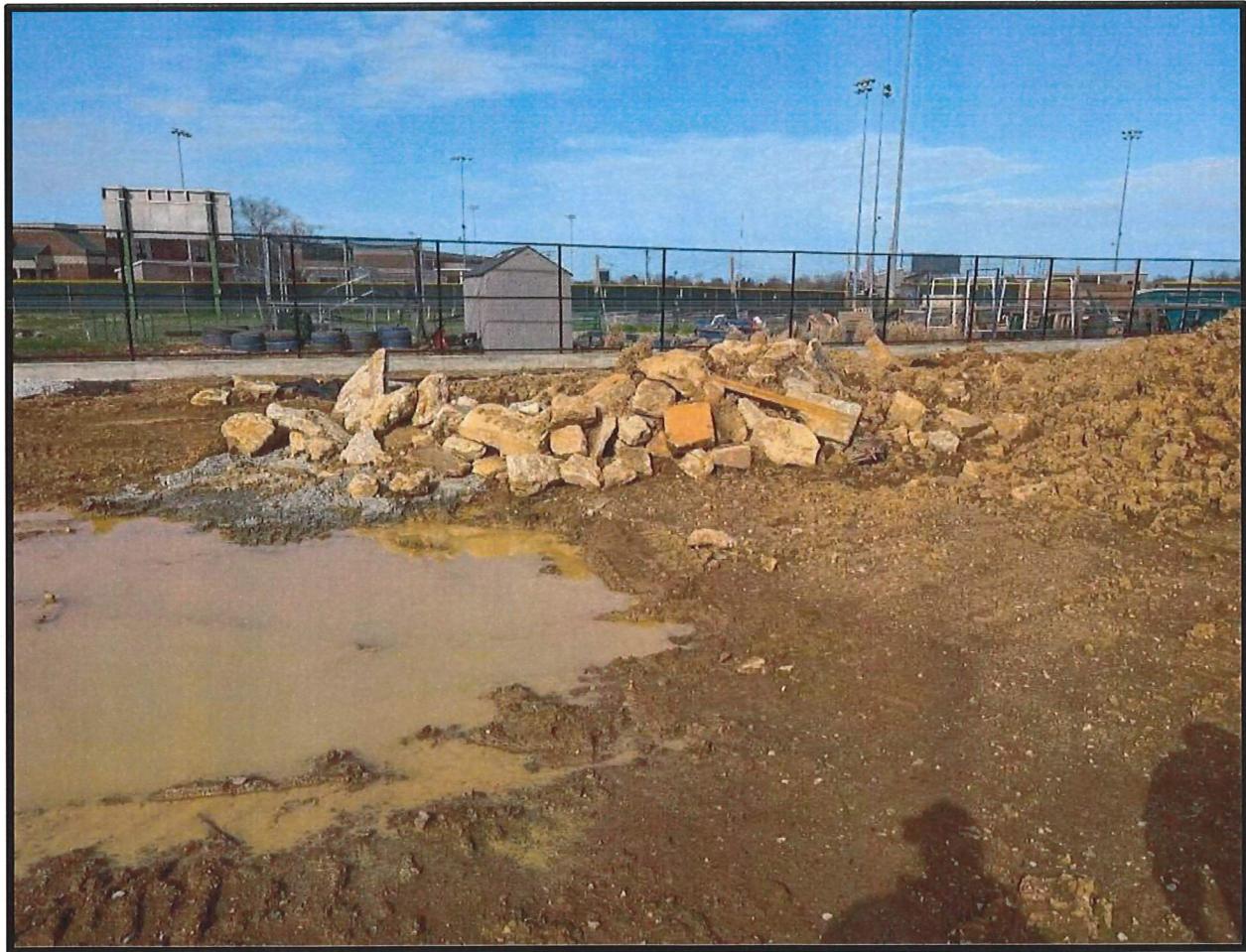


Figure 2: Camden Station Site Conditions

We recommend that the playground be undercut 12" to remove the soft saturated soil. Any boulders or cobbles visible after the undercut should be

removed and replaced with engineered fill or DGA. A proof roll should be performed after the undercut is completed and before any backfill is placed.

We recommend that a layer of #2 stone be walked into the subgrade then backfill material may consist of engineered fill soil or DGA compacted in 8" loose lifts. A sheepfoot compactor should be used for clay and a smooth drum roller should be used for DGA. Roller compactors should weigh a minimum of 10 tons. The use of #57 stone is appropriate for use as fill at elevations above the top of the drains.

### Locust Grove Elementary School

The new playgrounds were generally at subgrade elevation. There is standing water and organic material visible during the site walk. No equipment was present to proof roll or excavate test pits with. Figure 3 shows the general site conditions including the presence of organic material.



Figure 3: Locust Grove Site Conditions

We recommend that the upper playground be undercut 12" to remove the soft, wet subgrade and replaced with a layer of #2 stone that is walked into the subgrade, then engineered fill or DGA.

We recommend that the lower playground be undercut 12" or to below all organic material, whichever is deeper. A proof roll should be performed after the undercut is completed and before any backfill is placed.

We recommend that a layer of #2 stone be walked into the subgrade then backfill material may consist of engineered fill soil or dense graded aggregate (DGA) compacted in 8" loose lifts. A sheepfoot compactor should be used for clay and a smooth drum roller should be used for DGA. Roller compactors should weigh a minimum of 10 tons. The use of #57 stone is appropriate for use as fill at elevations above the top of the drains.

### General

All three sites had had a rain event in the previous few days which has been allowed to seep into the subgrade. We recommend that any exposed soil be protected by straw, seeding, rock, or other methods if the area the soil is in will be left unattended for more than three days. Any soil left unattended or unprotected for more than three days should be re-evaluated prior to continuation of work. In addition, all subgrades should be sloped to allow rainwater to shed and to limit seepage into completed work.

Any undercutting of subgrade material should be observed by Solid Ground to limit the amount of undercut required and to delineate unsuitable soils from reuseable soils. Wet, saturated soil can be dried and recompacted for use as engineered fill.

Proof rolling for the Elementary School playgrounds can be performed either with an on-road dump truck or a 10-ton smooth drum roller. Minor rutting and/or pumping is acceptable.

In addition to protecting the subgrade, it is important that all organics be removed from the subgrade prior to any new fill or other improvements. Organic materials decay over time and lead to excessive settlement, odor, and premature failure of improvements.

Sincerely,  
**SOLID GROUND CONSULTING ENGINEERS,**

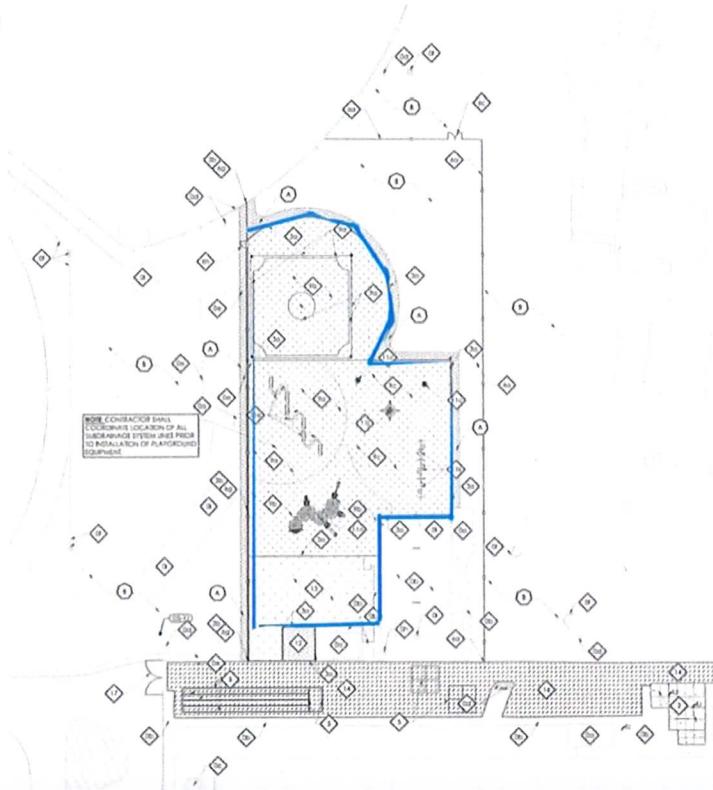


Beck Smith, PE  
Principal Engineer

**Company:** Solid Ground CE  
**Contact:** Wyatt Hon  
**Phone:** 8597793496  
**Email:** wyatt@solidgroundce.com

**Title:** 24-532 Camden Station Elem. 250509 Remediation  
**Group:** Camden Station  
**Created:** Fri, 5/9/2025  
**No. Items:** 6

(1)



### Summary

**Created:**

Fri, 5/9/2025

Solid Ground rep was on-site today to observe undercut of unsuitable soft soils and rock/cobbles per the engineered recommendation.

(2)



**Created:** Fri, 5/9/2025

Site overview of playground area shown for undercut.

Reviewed by



**Company:** Solid Ground CE

**Title:** 24-532 Camden Station Elem. 250509 Remediation

**Contact:** Wyatt Hon

**Group:** Camden Station

**Phone:** 8597793496

**Created:** Fri, 5/9/2025

**Email:** wyatt@solidgroundce.com

**No. Items:** 6

---

(3)



**Created:** Fri, 5/9/2025

Contractor observed under cutting material with excavator.

(4)



**Created:** Fri, 5/9/2025

Contractor observed stock piling material to be removed.

**Company:** Solid Ground CE

**Title:** 24-532 Camden Station Elem. 250509 Remediation

**Contact:** Wyatt Hon

**Group:** Camden Station

**Phone:** 8597793496

**Created:** Fri, 5/9/2025

**Email:** wyatt@soildgroundce.com

**No. Items:** 6

---

(5)



**Created:** Fri, 5/9/2025

Rock and cobbles removed and stock piled.

(6)



#### Remarks

**Created:** Fri, 5/9/2025

Unsuitable soft material stock piled for removal.



**Company:** Solid Ground CE

**Title:** 24-532 Camden Station Elem. 250509 Remediation

**Contact:** Wyatt Hon

**Group:** Camden Station

**Phone:** 8597793496

**Created:** Fri, 5/9/2025

**Email:** wyatt@solidgroundce.com

**No. Items:** 6

---

Observations will continue as scheduled, weather permitting.



Reviewed by

Doc. Id. 13  
page 4 of 4



November 13, 2025

Kevin McCalla  
RossTarrant Architects  
101 Old Lafayette Avenue  
Lexington, KY 40502

Re: 23050 | OCBE | OC Elementaries: Site Access Improvements – Phase 2 | Locust Grove Elementary- Unsuitable Soils Remediation with Days

Kevin,

The Cost remediate unsuitable soils at Locust Grove Elementary is as follows:

COR-Locust Grove Remediate Unsuitable Soils	
\$107/CY-243 CY removed and replaced	\$ 26,001.00
Days increase by 24-3/19 to 4/12	
Total	\$ 26,001.00

Please let me know if you would like to do this work.

7 days

Sincerely,

Charles Frith

Solid Ground Observed remediation on 4/2; 4/7; & 4/8. Report was generated providing guidance on 3/19 following failed proof roll. Following review of Redlee daily reports we believe that the requested 24 days should be reduced to 7 days to omit t days between direction and remediation occurring.

Based on field observation reports from Solid Ground and additional field notes, the noted quantities of unsuitable soil removal is accurate and acceptable to the design team.

800 Stonecreek Parkway, Suite 5A· Louisville, Kentucky 40223

(502)412-3777· Fax: (502)412-7778

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

**BARY BUILT LLC**  
**JEFFERSONVILLE INDIANA**  
**502-639-4111**  
**www.BaryBuiltLLC.com**

5/15/25

Remediation of Locust Grove Elementary Playground Area

By the directive of Redlee Construction and per the Field Report dated March 28, 2025 by Solid Ground Consulting Engineers and under their supervision the following remediation of unsuitable soils was performed at Locust Grove Elementary.

Undercut of 243 cubic yards of unsuitable soil and debris laden materials.  
Replaced with #3 stone walked in and brought to elevation with 8" lifts of DGA.

Unit price submitted	\$107.00 per cu yd
----------------------	--------------------

243 cubic yards removed and replaced @ \$107.00 per

Total	\$26,001.00
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Thank you,

Michael Bary  
Bary Built LLC  
502-639-4111  
michael@barybuiltllc.com

March 28, 2025

Subject: **Field Report**  
**Oldham County Elementary Schools' Playgrounds**  
**Oldham County, Kentucky**  
**Project No.: 24-532**

Solid Ground Consulting Engineers (Solid Ground) made a site visit on March 25, 2025, at the request of Mr. Charles Firth with Redlee Construction and Mr. Richard Jackson with Oldham County Schools. We visited three (3) sites today, Crestwood Elementary School, Camden Station Elementary School, and Locust Grove Elementary School to observe present site conditions and to determine recommendations for next steps.

### Crestwood Elementary School

The new playgrounds were generally at or slightly high (4-6") of subgrade elevation. A proof roll with a single axel dump truck was performed. Rutting and pumping of up to 6" was observed. Three test pits were excavated to depths ranging from 16" to 30". Figure 1 below shows the approximate locations of the test pits. The test pits generally showed fill material throughout. A layer of asphalt was observed in all test pits at depths ranging from 8" to 16". In addition, there were some pieces of construction debris observed. Stiff, silty Clay was encountered at termination depths of all three test pits.

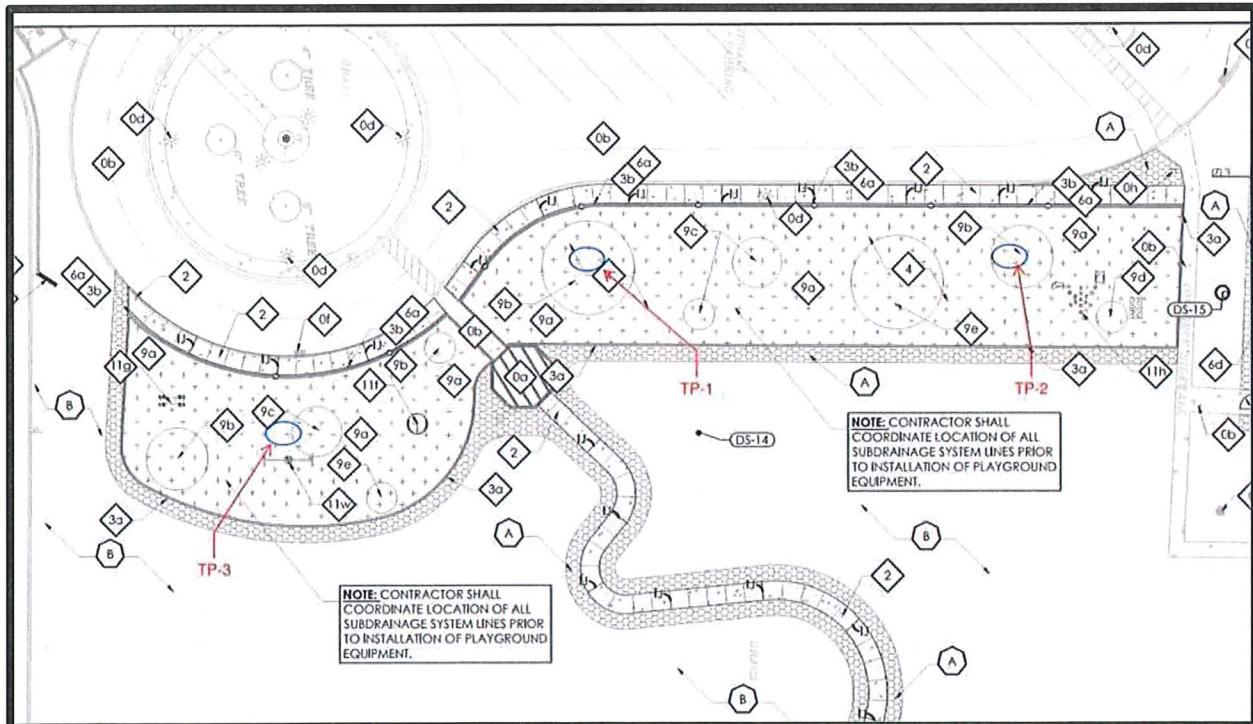


Figure 1: Crestwood Elementary Test Pit Locations

We recommend that the playgrounds be undercut 12" or to where stiff clay is encountered, whichever is less. A proof roll should be performed after the undercut is completed and before any backfill is placed. Backfill material may consist of engineered fill soil or dense graded aggregate (DGA) compacted in 8" loose lifts. A sheepfoot compactor should be used for clay and a smooth drum roller should be used for DGA. Roller compactors should weigh a minimum of 10 tons. The use of #57 stone is appropriate for use as fill at elevations above the top of the drains.

### Camden Station Elementary School

The new playground was generally at or below (12") subgrade elevation. There was standing water and large boulders and cobbles visible during the site walk. A test pit was excavated towards the rear of the playground to a depth of 24". The upper 12" of the subgrade consisted of a soft, wet dark brown clayey silt before increasing in consistency to stiff. Figure 2 shows the general site conditions.

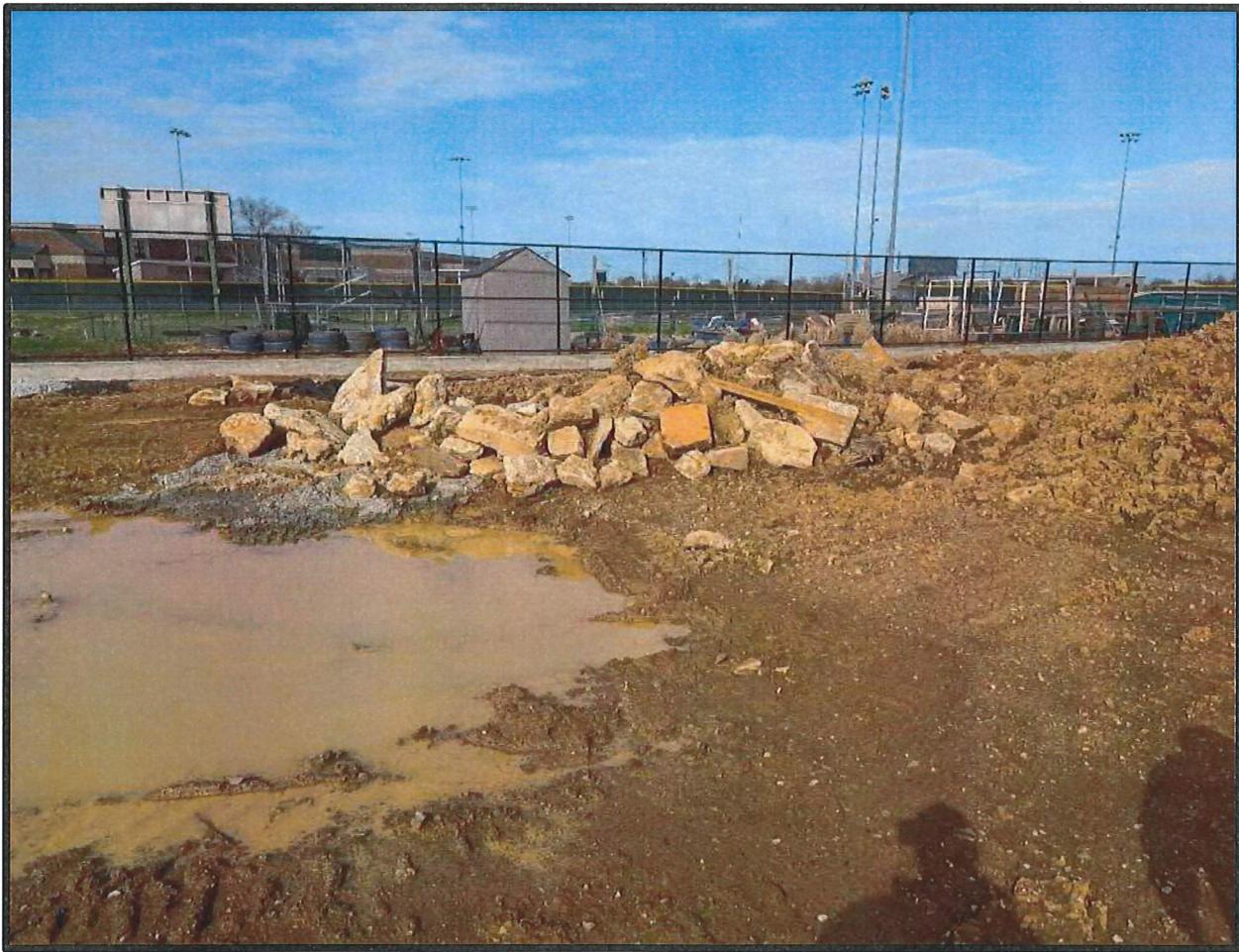


Figure 2: Camden Station Site Conditions

We recommend that the playground be undercut 12" to remove the soft saturated soil. Any boulders or cobbles visible after the undercut should be

removed and replaced with engineered fill or DGA. A proof roll should be performed after the undercut is completed and before any backfill is placed.

We recommend that a layer of #2 stone be walked into the subgrade then backfill material may consist of engineered fill soil or DGA compacted in 8" loose lifts. A sheepfoot compactor should be used for clay and a smooth drum roller should be used for DGA. Roller compactors should weigh a minimum of 10 tons. The use of #57 stone is appropriate for use as fill at elevations above the top of the drains.

### Locust Grove Elementary School

The new playgrounds were generally at subgrade elevation. There is standing water and organic material visible during the site walk. No equipment was present to proof roll or excavate test pits with. Figure 3 shows the general site conditions including the presence of organic material.



Figure 3: Locust Grove Site Conditions

We recommend that the upper playground be undercut 12" to remove the soft, wet subgrade and replaced with a layer of #2 stone that is walked into the subgrade, then engineered fill or DGA.

We recommend that the lower playground be undercut 12" or to below all organic material, whichever is deeper. A proof roll should be performed after the undercut is completed and before any backfill is placed.

We recommend that a layer of #2 stone be walked into the subgrade then backfill material may consist of engineered fill soil or dense graded aggregate (DGA) compacted in 8" loose lifts. A sheep's foot compactor should be used for clay and a smooth drum roller should be used for DGA. Roller compactors should weigh a minimum of 10 tons. The use of #57 stone is appropriate for use as fill at elevations above the top of the drains.

### General

All three sites had had a rain event in the previous few days which has been allowed to seep into the subgrade. We recommend that any exposed soil be protected by straw, seeding, rock, or other methods if the area the soil is in will be left unattended for more than three days. Any soil left unattended or unprotected for more than three days should be re-evaluated prior to continuation of work. In addition, all subgrades should be sloped to allow rainwater to shed and to limit seepage into completed work.

Any undercutting of subgrade material should be observed by Solid Ground to limit the amount of undercut required and to delineate unsuitable soils from reusable soils. Wet, saturated soil can be dried and recompacted for use as engineered fill.

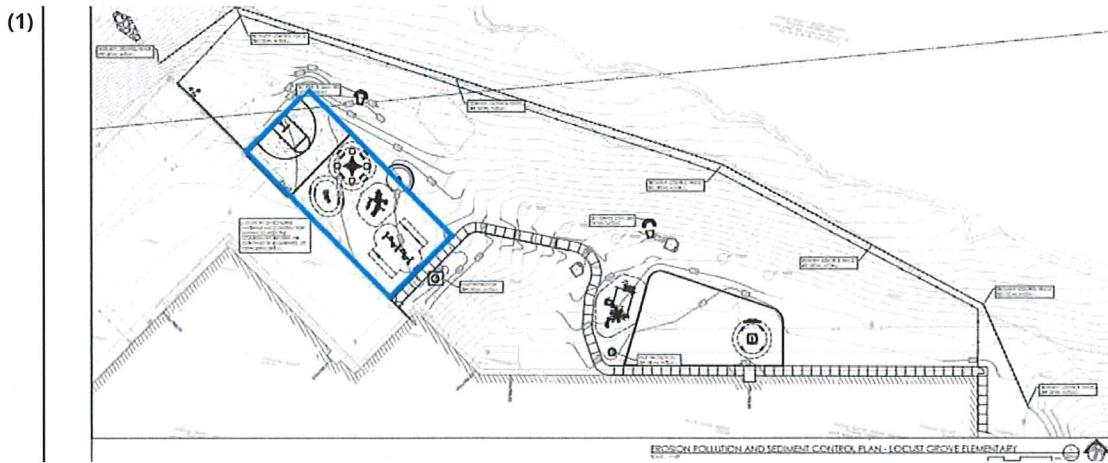
Proof rolling for the Elementary School playgrounds can be performed either with an on-road dump truck or a 10-ton smooth drum roller. Minor rutting and/or pumping is acceptable.

In addition to protecting the subgrade, it is important that all organics be removed from the subgrade prior to any new fill or other improvements. Organic materials decay over time and lead to excessive settlement, odor, and premature failure of improvements.

Sincerely,  
**SOLID GROUND CONSULTING ENGINEERS,**



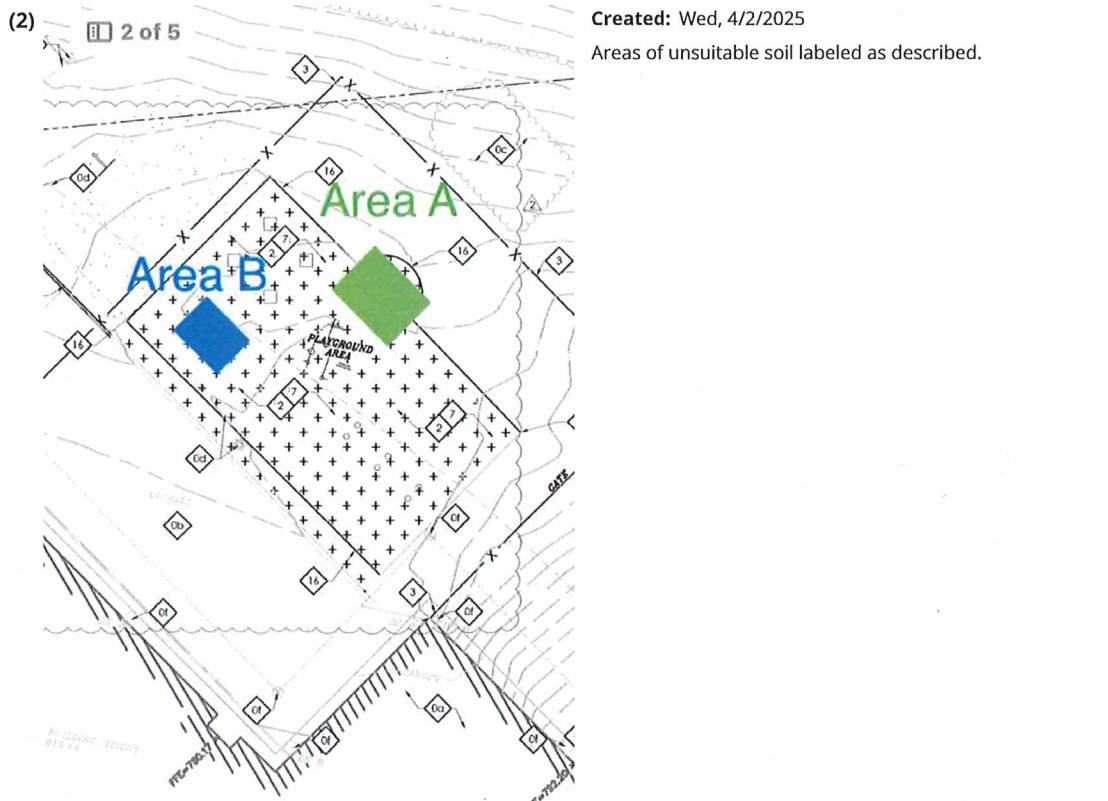
Beck Smith, PE  
Principal Engineer



### Summary

**Created:** Wed, 4/2/2025

Solid Ground rep was on site today to observe undercut and proof roll in building pad area per engineered recommendation in the area highlighted in blue on plans. No discrepancies were observed.



**Company:** Solid Ground CE  
**Contact:** Wyatt Hon  
**Phone:** 8597793496

**Email:** wyatt@soildgroundce.com  
**Title:** 24-532 Locust Grove Elem. 250402 E  
**Group:** Locust Grove ELEM.

**Created:** Wed, 4/2/2025  
**No. Items:** 13

(3)



**Created:** Wed, 4/2/2025

12" of organic material removed per engineered recommendation.

(4)



**Area A**

**Created:** Wed, 4/2/2025

22' by 15' area of soft soils due to organics encountered. Soils to be removed by contractor until competent soil is reached.

(Center of Northeastern edge of pad)

(5)



### Area B

**Created:** Wed, 4/2/2025

13' by 16' area of soft soil due to organics encountered. Contractor to remove soft soils down to competent material.  
(Southwest corner)

(6)



**Company:** Solid Ground CE  
**Contact:** Wyatt Hon  
**Phone:** 8597793496

**Email:** wyatt@soildgroundce.com  
**Title:** 24-532 Locust Grove Elem. 250402 E  
**Group:** Locust Grove ELEM.

**Created:** Wed, 4/2/2025  
**No. Items:** 13

---

**Created:** Wed, 4/2/2025

Proof roll with loaded truck shows material stiff with little movement, 2" or less rutting.

(7)



**Created:** Wed, 4/2/2025

Proof roll with loaded truck shows material stiff with little movement, 2" or less rutting.

(8)



**Area A**

**Company:** Solid Ground CE    **Email:** wyatt@soildgroundce.com  
**Contact:** Wyatt Hon    **Title:** 24-532 Locust Grove Elem. 250402 E  
**Phone:** 8597793496    **Group:** Locust Grove ELEM.

**Created:** Wed, 4/2/2025  
**No. Items:** 13

---

**Created:** Wed, 4/2/2025

Contractor observed removing soil soils.

(9)



**Area B**

**Created:** Wed, 4/2/2025

Contractor observed removing soft soils.

(10)



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Reviewed by

**Created:** Wed, 4/2/2025

#3 stone delivered to building pad area.

(11)



**Created:** Wed, 4/2/2025

Contractor observed placing #3 stone.

(12)



**Company:** Solid Ground CE

**Email:** wyatt@soildgroundce.com

**Created:** Wed, 4/2/2025

**Contact:** Wyatt Hon

**Title:** 24-532 Locust Grove Elem. 250402 E

**No. Items:** 13

**Phone:** 8597793496

**Group:** Locust Grove ELEM.

---

**Created:** Wed, 4/2/2025

#3 stone place in and walked in by contractor.

(13)



**Remarks**

**Created:** Wed, 4/2/2025

DGA staged on site to be placed by contractor upon arrival of smooth drum roller.

Observations will continue as scheduled, weather permitting.

**BARY BUILT LLC**  
**JEFFERSONVILLE INDIANA**  
**502-639-4111**  
**www.BaryBuiltLLC.com**

5/15/25

Remediation of Crestwood Elementary Playground Area

By the directive of Redlee Construction and per the Field Report dated March 28, 2025 by Solid Ground Consulting Engineers and under their supervision the following remediation of unsuitable soils was performed at Crestwood Elementary.

480 cy per SG reports

~~521 cy~~

Undercut of ~~643~~ cu yards of unsuitable and debris laded materials.

Replaced with 8" compacted lifts of DGA.

Unit price submitted	\$120 per RTA
	<del>\$107.00</del> per cu yd
643 cu yards removed and replaced @ \$107.00	\$57,600.00
	<del>\$62,520.00</del>
Total	\$68,836.67

Thank you,

Michael Bary  
Bary Built LLC  
502-639-4111  
michael@barybuiltllc.com

March 28, 2025

Subject: **Field Report**  
**Oldham County Elementary Schools' Playgrounds**  
**Oldham County, Kentucky**  
**Project No.: 24-532**

Solid Ground Consulting Engineers (Solid Ground) made a site visit on March 25, 2025, at the request of Mr. Charles Firth with Redlee Construction and Mr. Richard Jackson with Oldham County Schools. We visited three (3) sites today, Richard Jackson with Oldham County Schools, Camden Station Elementary School, and Locust Grove Elementary School to observe present site conditions and to determine recommendations for next steps.

### Crestwood Elementary School

The new playgrounds were generally at or slightly high (4-6") of subgrade elevation. A proof roll with a single axle dump truck was performed. Rutting and pumping of up to 6" was observed. Three test pits were excavated to depths ranging from 16" to 30". Figure 1 below shows the approximate locations of the test pits. The test pits generally showed fill material throughout. A layer of asphalt was observed in all test pits at depths ranging from 8" to 16". In addition, there were some pieces of construction debris observed. Stiff, silty Clay was encountered at termination depths of all three test pits.

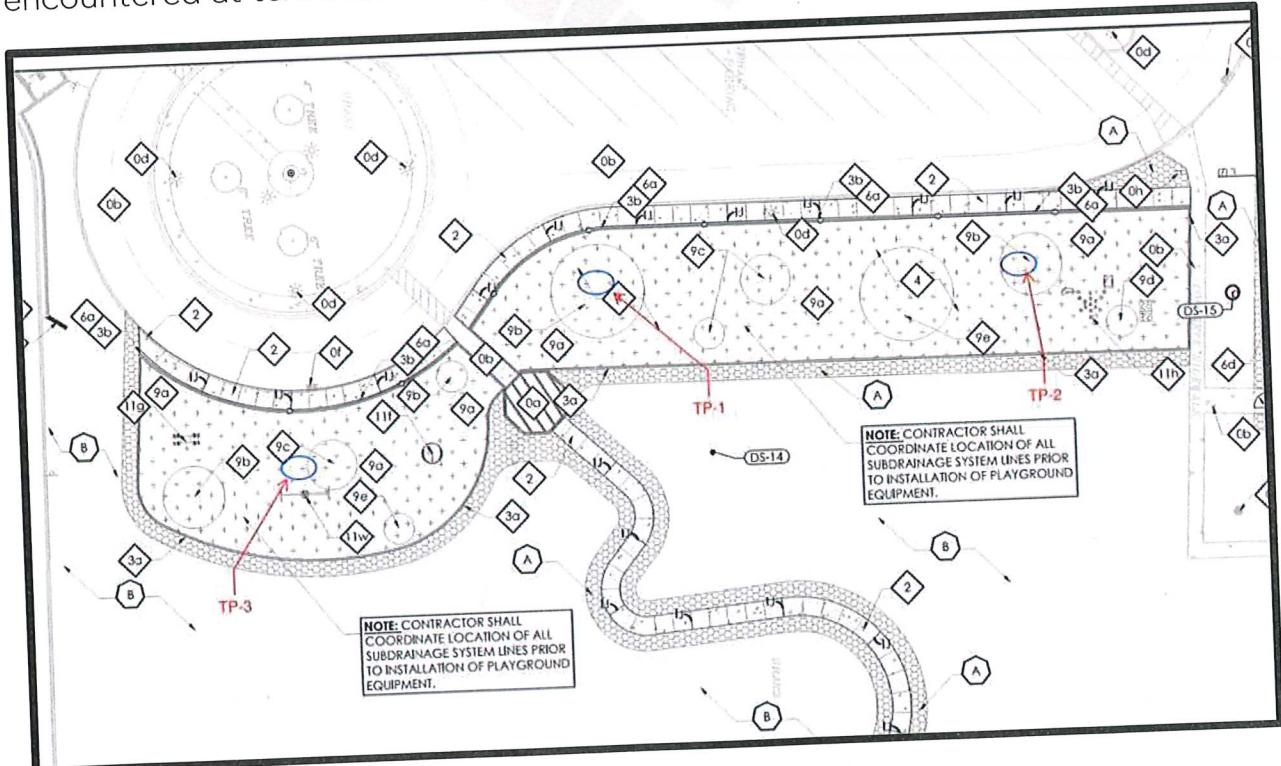


Figure 1: Crestwood Elementary Test Pit Locations

We recommend that the playgrounds be undercut 12" or to where stiff clay is encountered, whichever is less. A proof roll should be performed after the undercut is completed and before any backfill is placed. Backfill material may consist of engineered fill soil or dense graded aggregate (DGA) compacted in 8" loose lifts. A sheepfoot compactor should be used for clay and a smooth drum roller should be used for DGA. Roller compactors should weigh a minimum of 10 tons. The use of #57 stone is appropriate for use as fill at elevations above the top of the drains.

**Camden Station Elementary School**

The new playground was generally at or below (12") subgrade elevation. There was standing water and large boulders and cobbles visible during the site walk. A test pit was excavated towards the rear of the playground to a depth of 24". The upper 12" of the subgrade consisted of a soft, wet dark brown clayey silt before increasing in consistency to stiff. Figure 2 shows the general site conditions.



Figure 2: Camden Station Site Conditions

We recommend that the playground be undercut 12" to remove the soft saturated soil. Any boulders or cobbles visible after the undercut should be

removed and replaced with engineered fill or DGA. A proof roll should be performed after the undercut is completed and before any backfill is placed.

We recommend that a layer of #2 stone be walked into the subgrade then backfill material may consist of engineered fill soil or DGA compacted in 8" loose lifts. A sheepfoot compactor should be used for clay and a smooth drum roller should be used for DGA. Roller compactors should weigh a minimum of 10 tons. The use of #57 stone is appropriate for use as fill at elevations above the top of the drains.

### Locust Grove Elementary School

The new playgrounds were generally at subgrade elevation. There is standing water and organic material visible during the site walk. No equipment was present to proof roll or excavate test pits with. Figure 3 shows the general site conditions including the presence of organic material.



Figure 3: Locust Grove Site Conditions

We recommend that the upper playground be undercut 12" to remove the soft, wet subgrade and replaced with a layer of #2 stone that is walked into the subgrade, then engineered fill or DGA.

We recommend that the lower playground be undercut 12" or to below all organic material, whichever is deeper. A proof roll should be performed after the undercut is completed and before any backfill is placed.

We recommend that a layer of #2 stone be walked into the subgrade then backfill material may consist of engineered fill soil or dense graded aggregate (DGA) compacted in 8" loose lifts. A sheepfoot compactor should be used for clay and a smooth drum roller should be used for DGA. Roller compactors should weigh a minimum of 10 tons. The use of #57 stone is appropriate for use as fill at elevations above the top of the drains.

### General

All three sites had had a rain event in the previous few days which has been allowed to seep into the subgrade. We recommend that any exposed soil be protected by straw, seeding, rock, or other methods if the area the soil is in will be left unattended for more than three days. Any soil left unattended or unprotected for more than three days should be re-evaluated prior to continuation of work. In addition, all subgrades should be sloped to allow rainwater to shed and to limit seepage into completed work.

Any undercutting of subgrade material should be observed by Solid Ground to limit the amount of undercut required and to delineate unsuitable soils from reusable soils. Wet, saturated soil can be dried and recompacted for use as engineered fill.

Proof rolling for the Elementary School playgrounds can be performed either with an on-road dump truck or a 10-ton smooth drum roller. Minor rutting and/or pumping is acceptable.

In addition to protecting the subgrade, it is important that all organics be removed from the subgrade prior to any new fill or other improvements. Organic materials decay over time and lead to excessive settlement, odor, and premature failure of improvements.

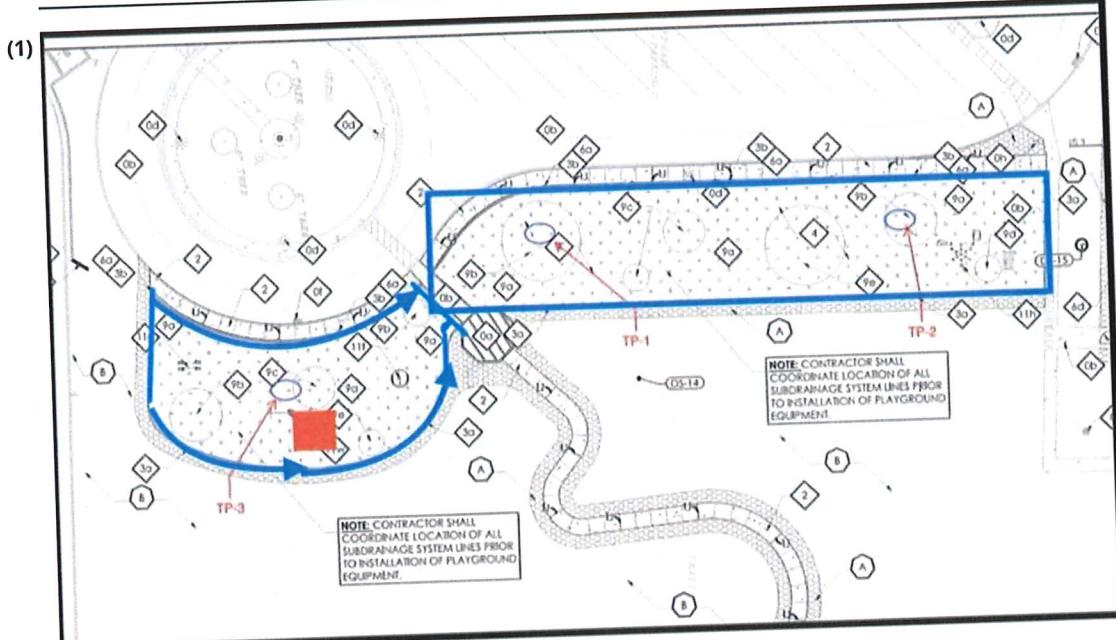
Sincerely,  
**SOLID GROUND CONSULTING ENGINEERS,**



Beck Smith, PE  
Principal Engineer

**Company:** Solid Ground CE  
**Contact:** Wyatt Hon  
**Phone:** 8597793496  
**Email:** wyatt@solidgroundce.com

**Title:** 24-532 Crestwood Elem. 250423 E(remediation)  
**Group:** Crestwood Elem.  
**Created:** Wed, 4/23/2025  
**No. Items:** 13



### Summary

**Created:** Wed, 4/23/2025

Solid Ground rep was on site today to observe undercut, and proof rolling of material in areas highlighted in blue on plans, highlighted in red are areas of soft soils found in proof rolling in excess of the 12" undercut.



### WEST SIDE

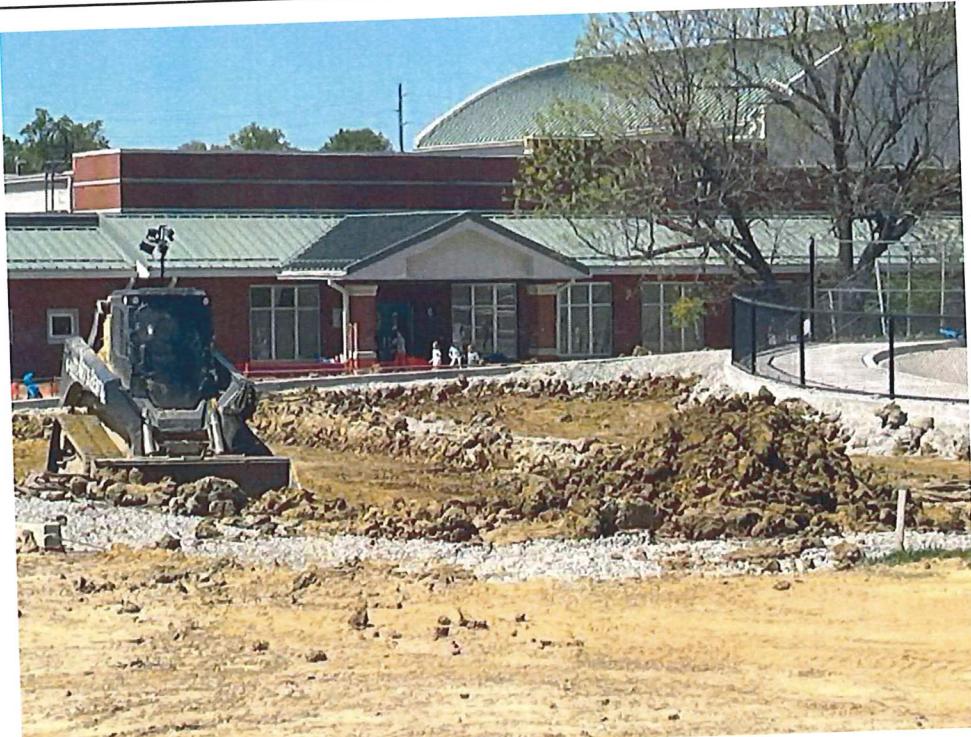
**Created:** Wed, 4/23/2025

Contractor observed performing 12" undercut inside lower playground area.

**Company:** Solid Ground CE  
**Contact:** Wyatt Hon  
**Phone:** 8597793496  
**Email:** wyatt@soildgroundce.com

**Title:** 24-532 Crestwood Elem. 250423 E(remediation)  
**Group:** Crestwood Elem.  
**Created:** Wed, 4/23/2025  
**No. Items:** 13

(3)



**Created:** Wed, 4/23/2025

Undercut soil removed by contractor.

(4)



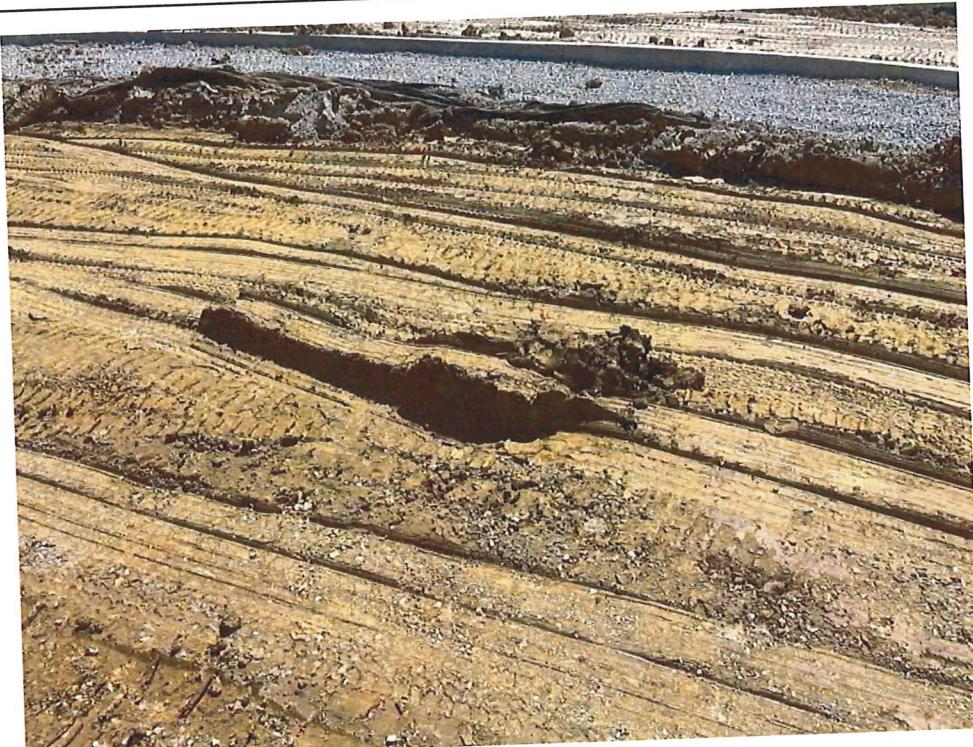
**Created:** Wed, 4/23/2025

Proof roll with loaded truck shows soft soils in excess of recommend 12" undercut in 12' by 12' area. All other areas show material stiff with minimal amounts of rutting no more than 2".

Company: Solid Ground CE  
Contact: Wyatt Hon  
Phone: 8597793496  
Email: wyatt@soildgroundce.com

Title: 24-532 Crestwood Elem. 250423 E(remediation)  
Group: Crestwood Elem.  
Created: Wed, 4/23/2025  
No. Items: 13

(5)



Created: Wed, 4/23/2025  
12' x 12' Area of soft soils encountered. (Highlighted in red on plans.)

(6)



Created: Wed, 4/23/2025  
Proof roll with loaded truck shows material stiff with little to no movement.

Company: Solid Ground CE  
Contact: Wyatt Hon  
Phone: 8597793496  
Email: wyatt@soliddgroundce.com

Title: 24-532 Crestwood Elem. 250423 E(remediation)  
Group: Crestwood Elem.  
Created: Wed, 4/23/2025  
No. Items: 13

(7)



**EAST SIDE**

Created: Wed, 4/23/2025

Area observed for undercut.

(8)



**EAST SIDE**

Created: Wed, 4/23/2025

Contractor observed performing 12" undercut inside upper playground area.

**Company:** Solid Ground CE  
**Contact:** Wyatt Hon  
**Phone:** 8597793496  
**Email:** wyatt@solidgroundce.com

**Title:** 24-532 Crestwood Elem. 250423 E(remediation)  
**Group:** Crestwood Elem.  
**Created:** Wed, 4/23/2025  
**No. Items:** 13

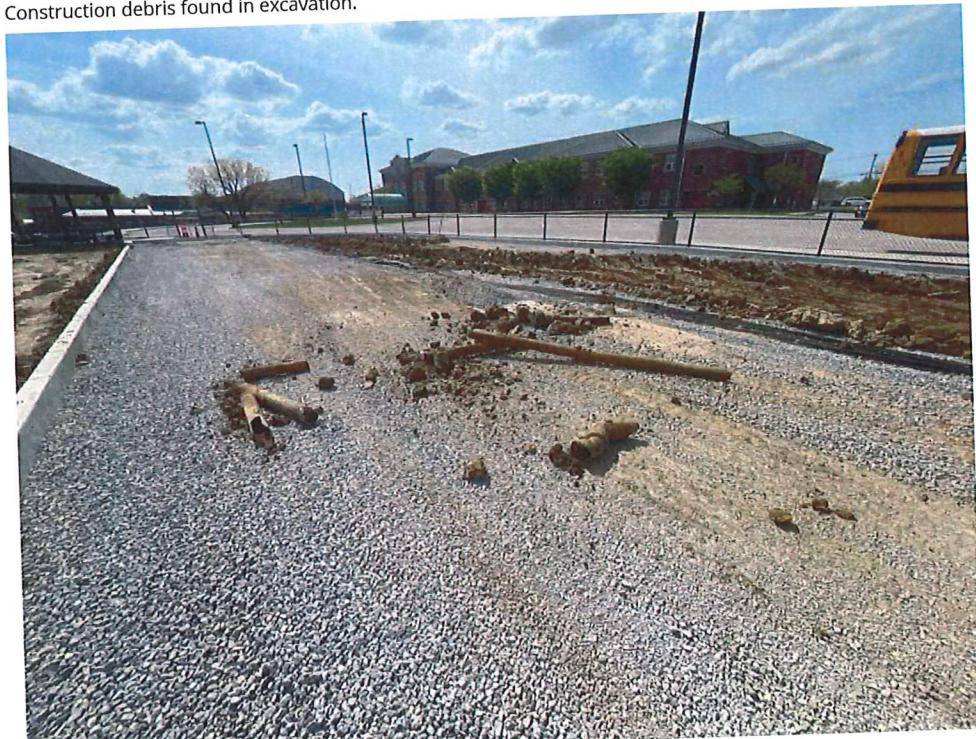
(9)



**Created:** Wed, 4/23/2025

Construction debris found in excavation.

(10)



**Created:** Wed, 4/23/2025

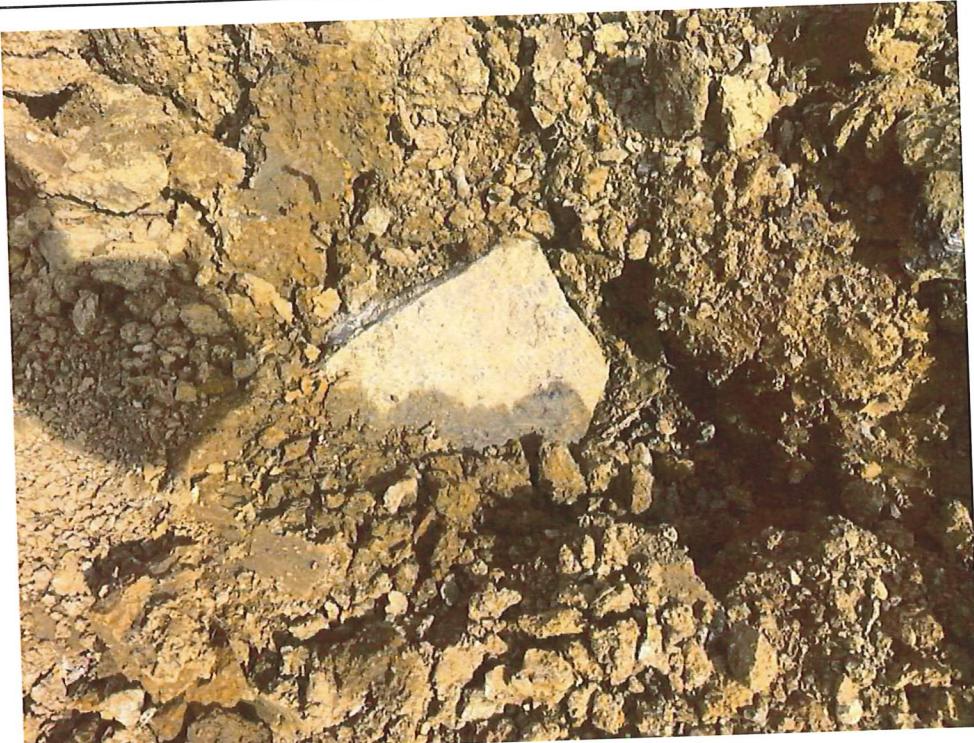
Construction debris found in excavation.

Reviewed by

**Company:** Solid Ground CE  
**Contact:** Wyatt Hon  
**Phone:** 8597793496  
**Email:** wyatt@solidgroundce.com

**Title:** 24-532 Crestwood Elem. 250423 E(remediation)  
**Group:** Crestwood Elem.  
**Created:** Wed, 4/23/2025  
**No. Items:** 13

(11)



**Created:** Wed, 4/23/2025

Construction debris found in excavation.

(12)



**Created:** Wed, 4/23/2025

Small amounts of asphalt found in excavation.

**Company:** Solid Ground CE  
**Contact:** Wyatt Hon  
**Phone:** 8597793496  
**Email:** wyatt@soildgroundce.com

**Title:** 24-532 Crestwood Elem. 250423 E(remediation)  
**Group:** Crestwood Elem.  
**Created:** Wed, 4/23/2025  
**No. Items:** 13

(13)



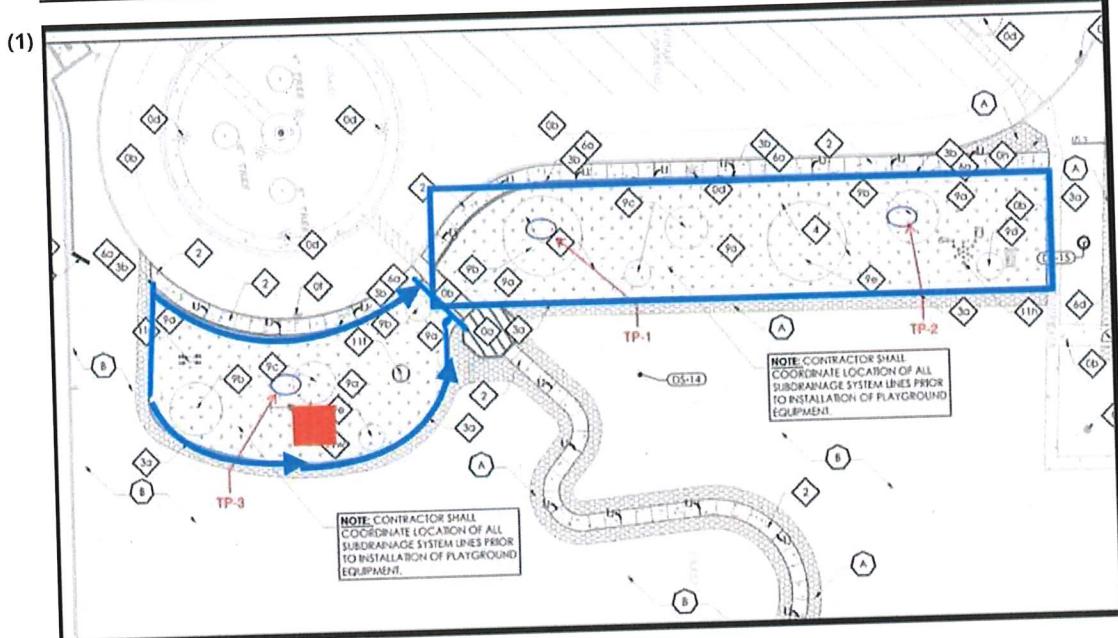
**Remarks**

**Created:** Wed, 4/23/2025

Tri axle trucks used for removal of soil. Approximately 15 yards of soil is loaded into each truck. Total number of loads for today was 14. Estimated construction debris and asphalt was approximately 10% of all material removed.

**Company:** Solid Ground CE  
**Contact:** Wyatt Hon  
**Phone:** 8597793496  
**Email:** wyatt@soliddgroundce.com

**Title:** 24-532 Crestwood Elem. 250424 E(remediation)  
**Group:** Crestwood Elem.  
**Created:** Thu, 4/24/2025  
**No. Items:** 13



### Summary

**Created:** Thu, 4/24/2025

Solid Ground rep was on site today to observe undercut in East Side area, and DGA placement for all areas highlighted in blue on plans.



### EAST SIDE

**Created:** Thu, 4/24/2025

Contractor observed performing 12" undercut inside upper playground area.

Reviewed by

**Company:** Solid Ground CE  
**Contact:** Wyatt Hon  
**Phone:** 8597793496  
**Email:** wyatt@solidgroundce.com

**Title:** 24-532 Crestwood Elem. 250424 E(remediation)  
**Group:** Crestwood Elem.  
**Created:** Thu, 4/24/2025  
**No. Items:** 13

(3)



**Created:** Thu, 4/24/2025

Proof roll with loaded truck shows material stiff with minimal movement of rutting less than 2".

(4)



**Created:** Thu, 4/24/2025

Proof roll with loaded truck shows material stiff with minimal movement of rutting less than 2".

Reviewed by

**Company:** Solid Ground CE  
**Contact:** Wyatt Hon  
**Phone:** 8597793496  
**Email:** wyatt@solidgroundce.com

**Title:** 24-532 Crestwood Elem. 250424 E(remediation)  
**Group:** Crestwood Elem.  
**Created:** Thu, 4/24/2025  
**No. Items:** 13

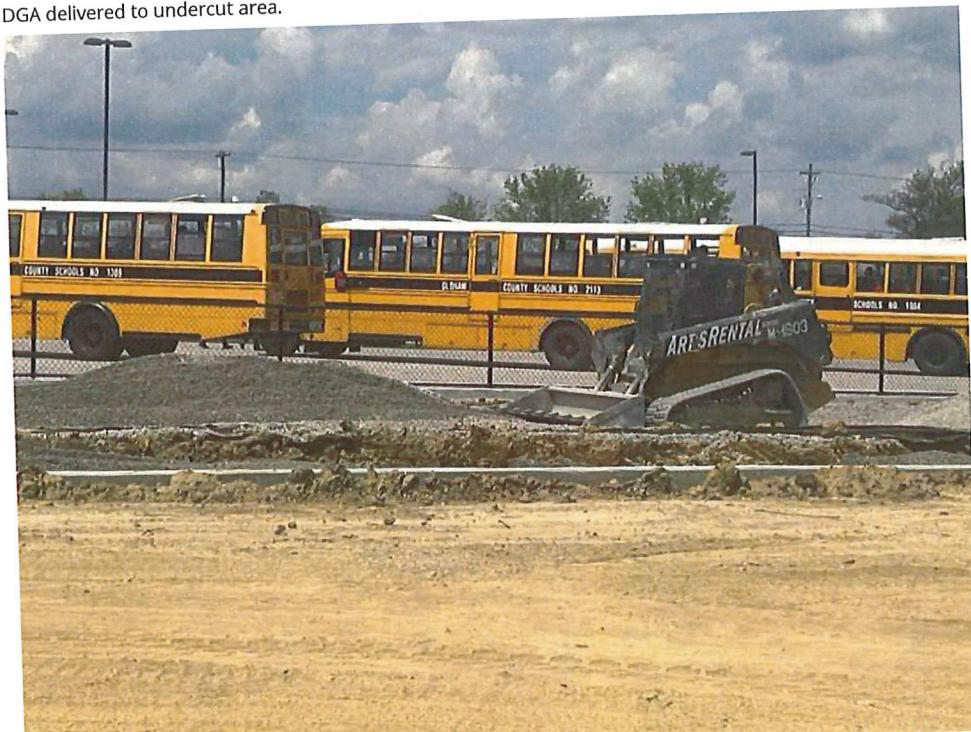
(5)



**Created:** Thu, 4/24/2025

DGA delivered to undercut area.

(6)



**Created:** Thu, 4/24/2025

Contractor observed placing DGA in 6" loose lifts.

Reviewed by

**Company:** Solid Ground CE  
**Contact:** Wyatt Hon  
**Phone:** 8597793496  
**Email:** wyatt@solidgroundce.com

**Title:** 24-532 Crestwood Elem. 250424 E(remediation)  
**Group:** Crestwood Elem.  
**Created:** Thu, 4/24/2025  
**No. Items:** 13

(7)



**Created:** Thu, 4/24/2025

Compaction efforts made with vibrating smooth drum roller.

(8)



#### WEST SIDE

**Created:** Thu, 4/24/2025

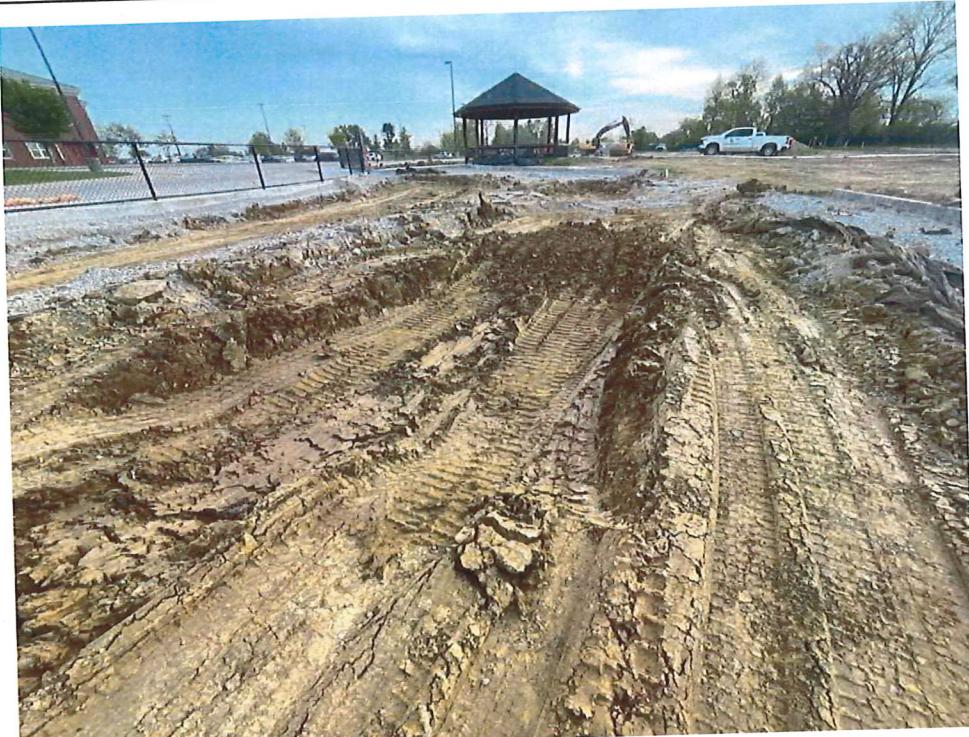
Area observed for proof rolling, soft soil removal, and DGA placement.

Reviewed by

**Company:** Solid Ground CE  
**Contact:** Wyatt Hon  
**Phone:** 8597793496  
**Email:** wyatt@solidgroundce.com

**Title:** 24-532 Crestwood Elem. 250424 E(remediation)  
**Group:** Crestwood Elem.  
**Created:** Thu, 4/24/2025  
**No. Items:** 13

(9)



**Created:** Thu, 4/24/2025

12' x 15' area of soft soils removed for proof roll.

(10)



**Created:** Thu, 4/24/2025

Proof roll with loaded truck shows material stiff with minimal movement of rutting less than 2".

Reviewed by

**Company:** Solid Ground CE  
**Contact:** Wyatt Hon  
**Phone:** 8597793496  
**Email:** wyatt@solidgroundce.com

**Title:** 24-532 Crestwood Elem. 250424 E(remediation)  
**Group:** Crestwood Elem.  
**Created:** Thu, 4/24/2025  
**No. Items:** 13

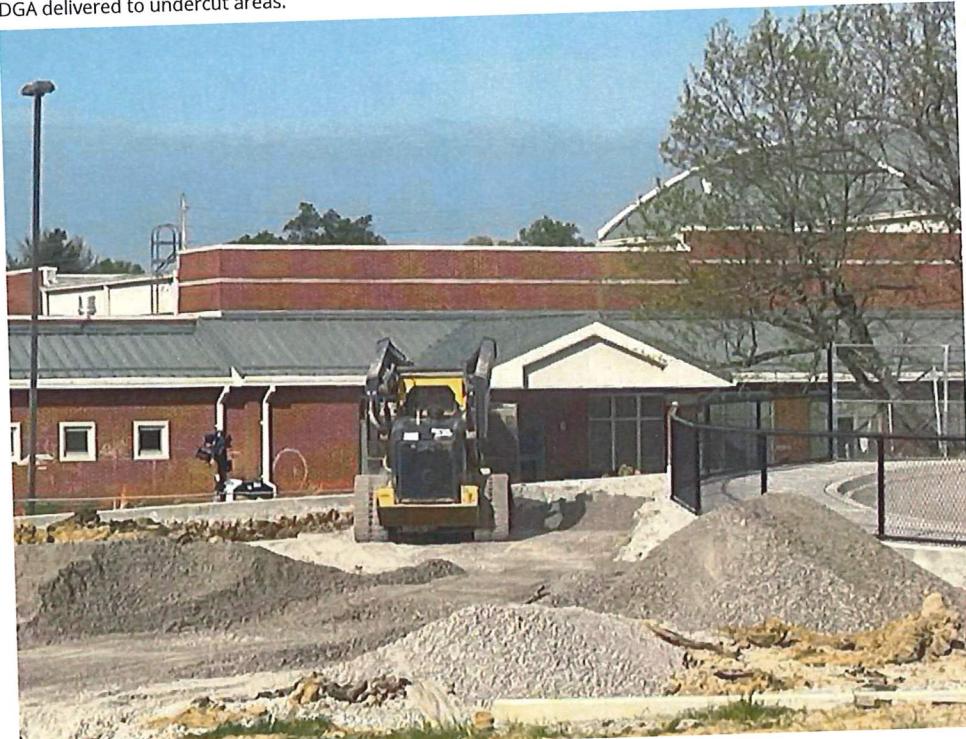
(11)



**Created:** Thu, 4/24/2025

DGA delivered to undercut areas.

(12)



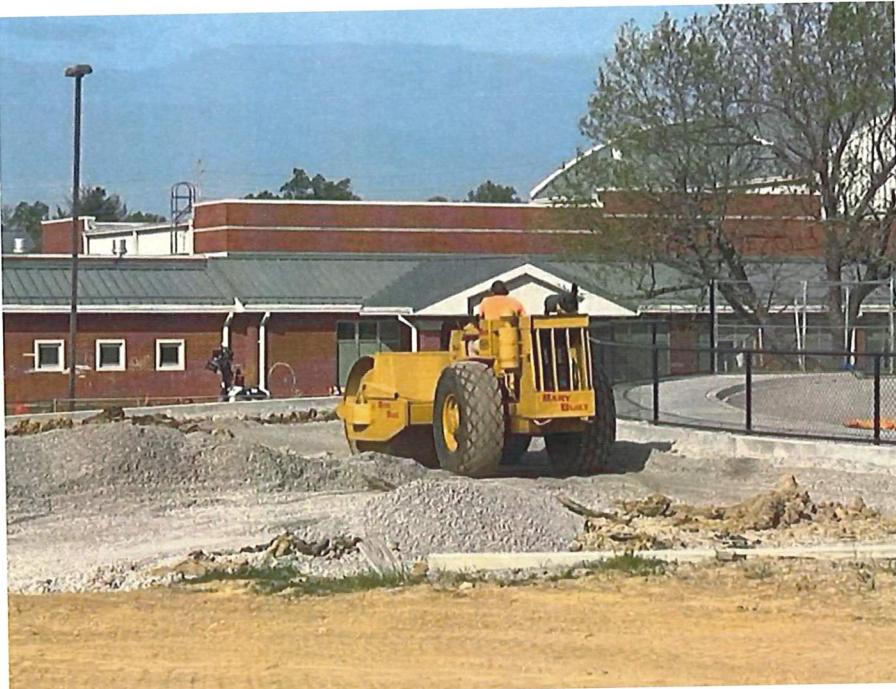
**Created:** Thu, 4/24/2025

Contractor observed placing DGA in 6" loose lifts.

**Company:** Solid Ground CE  
**Contact:** Wyatt Hon  
**Phone:** 8597793496  
**Email:** wyatt@solidgroundce.com

**Title:** 24-532 Crestwood Elem. 250424 E(remediation)  
**Group:** Crestwood Elem.  
**Created:** Thu, 4/24/2025  
**No. Items:** 13

(13)



#### Remarks

**Created:** Thu, 4/24/2025

Compaction efforts made with smooth drum vibrating roller.

Tri axle trucks used for removal of soil. Approximately 15 yards of soil is loaded into each truck. Total number of loads for today was 18. Estimated construction debris and asphalt was approximately 10% of all material removed. Approximately 450 ton of DGA brought in for placement.

Total removal for remediation is 32 truck loads with approximately 15 yards per load.



November 7, 2025

Kevin McCalla  
RossTarrant Architects  
101 Old Lafayette Avenue  
Lexington, KY 40502

Re: 23050 | OCBE | OC Elementaries: Site Access Improvements – Phase 2 | Camden Station Elementary- Unsuitable Soils Remediation and Rock Removal with Days

Kevin,

The Cost remediate unsuitable soils and remove rock at Camden Station Elementary is as follows:

COR-Unsuitable Soil and Rock Removal at Camden Station	
\$120/CY-428 CY per Solid Ground recomendations 3/28/25-Soil	\$ 51,360.00
\$150/CY-27.5 CY per Solid Ground 3/31/25-Rock	\$ 4,125.00
\$150/CY-294 CY per Solid Ground 5/23/25-Rock	\$ 44,100.00
Days increase by <del>25</del> days-5/9/25 to 6/3/25	21 days
Total	\$ 99,585.00

Please let me know if you would like to do this work.

Solid Ground Observed remediation on 5/9; 5/10; 5/23; 5/29; 5/31; 6/2; & 6/3. Initial report was generated providing guidance on 3/25 following the discovery of unsuitable soils. Days requested for Camden Station overlap with dates requested on Buckner. Period from 5/9-5/13 may only be claimed once. The total days recommend for approval would be from 5/14 to 6/3 is 21 days.

Sincerely,

Charles Frith

**BARY BUILT LLC**  
**JEFFERSONVILLE INDIANA**  
**502-639-4111**  
**www.BaryBuiltLLC.com**

5/20/25

Rock Removal Camden Station Elementary Playground Area

By the directive of Redlee Construction and per the Field Report dated March 28, 2025 by Solid Ground Consulting Engineers and under their supervision the following remediation of unsuitable soils was performed at Camden Station Elementary.

Rock Removal quantified by Solid Ground Consulting Engineers per Summary created by Wyatt Hon on 3/31/25 removal of 27.5 cu yds @ <del>250.00</del> per <b>\$150cy</b>	<b>\$4125.00</b> <del>\$ 6,875.00</del>
Rock Removal quantified by Solid Ground Consulting Engineers per Summary created by Wyatt Hon on 5/23/25 removal of <del>294 cu yds</del>	<b>\$44,100.00</b> <del>\$73,500.00</del>
<b>Total</b>	<b>\$48,225.00</b> <del>\$80,375.00</del>

Thank you,

Michael Bary  
Bary Built LLC  
502-639-4111  
michael@barybuiltllc.com

**BARY BUILT LLC  
JEFFERSONVILLE INDIANA  
502-639-4111  
[www.BaryBuiltLLC.com](http://www.BaryBuiltLLC.com)**

6/10/25

Remediation of Camden Station Elementary Playground Area

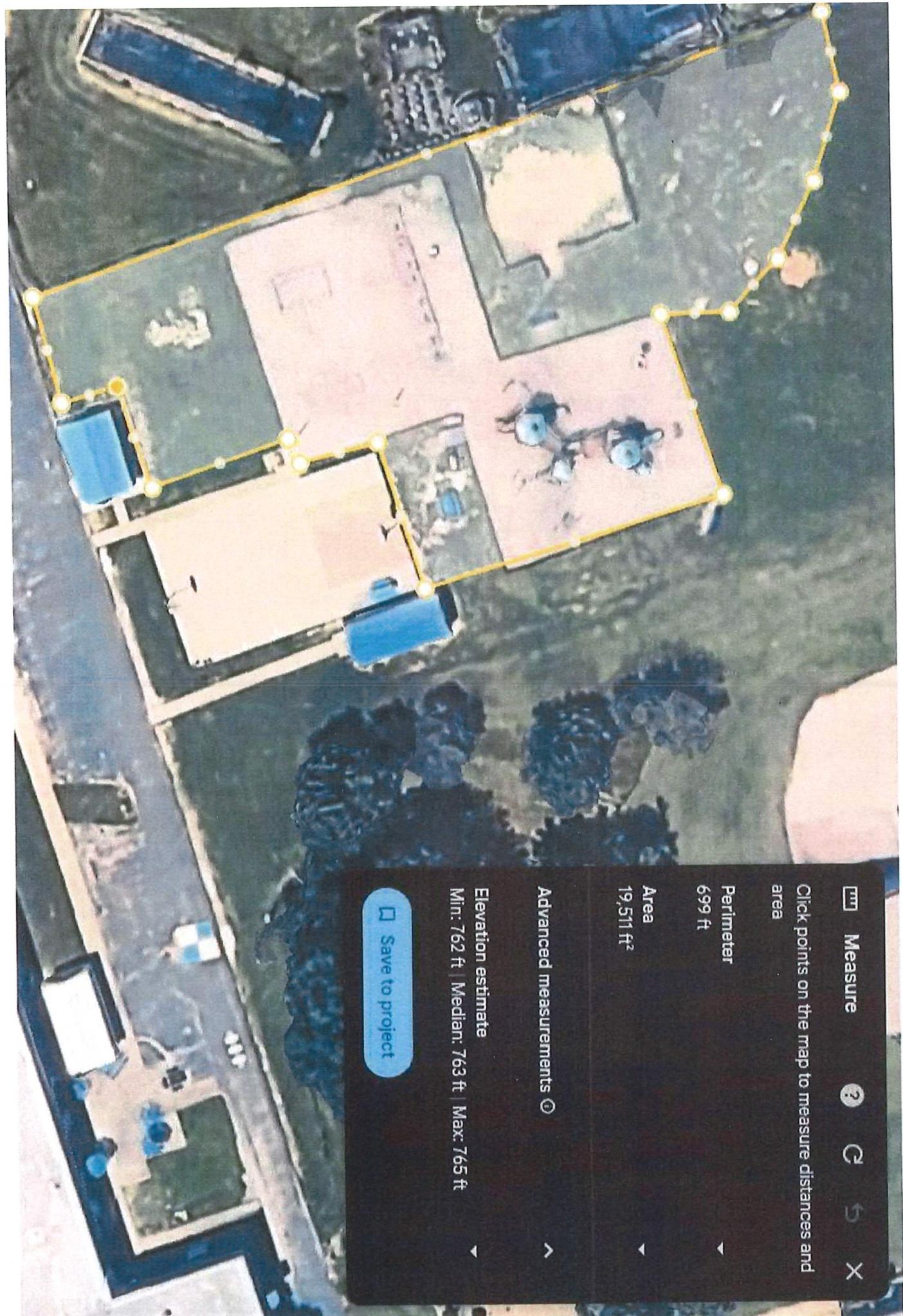
By the directive of Redlee Construction and per the Field Report dated March 28, 2025 by Solid Ground Consulting Engineers and under their supervision the following remediation of unsuitable soils was performed at Camden Station Elementary.

Undercut of 1082 cubic yards of unsuitable soil and debris laden materials. Replaced with #3 stone walked in and brought to elevation with 8" lifts of DGA.

Unit price submitted	\$107.00 per cu yd
	<b>\$120cy per RTA</b>
<del>1082</del> cubic yards removed and replaced @ <del>\$107.00 per</del>	
<b>722</b>	
Total	<del>\$115,774.00</del>
	<del>\$77,254.00</del>
<b>722cy - 294cy=428cy @ \$120.00/cy= \$51,360.00</b>	<b><del>\$86,640.00</del></b>

Thank you,

Michael Bary  
Bary Built LLC  
502-639-4111  
michael@barybuiltllc.com



$$\approx 19,500 = 722 \text{ cy}$$