Resolution # 2014-71

RESOLUTION

July 10, 2014

Of The Salem County Improvement Authority
In The County Of Salem, State Of New Jersey

Resolution Issuing Change Order Number #3
To The Contract To Construct Leachate Tank #2 For The Solid Waste Division Landfill

WHEREAS, on August 26, 2013, the Salem County Improvement Authority awarded a contract to TKT Construction Co., Inc. in the amount of One Million, Eight Hundred Sixty Three Thousand Dollars and Zero Cents ($1,863,000.00) to construct Leachate Tank #2 at the Solid Waste Division Landfill as authorized by Resolution 2013-67; and

WHEREAS, on November 25, 2013 the Salem County Improvement Authority adopted Resolution 2013-104 to authorize Change Order Number 1 in the amount of Three Thousand and Twenty-Five Dollars and Zero Cents ($3,025.00) to a contract with TKT Construction Co. to construct Leachate Tank #2 at the Solid Waste Division Landfill resulting in a total contract amount of One Million, Eight Hundred Sixty-Six Thousand and Twenty Five Dollars and Zero Cents ($1,866,025.00); and

WHEREAS, on May 8, 2014, the Salem County Improvement Authority adopted Resolution 2014-49 to authorize Change Order Number 2 to extend the contract completion date by fifty-nine (59) days, with no additional cost, allowing the final completion date to be moved from March 28, 2014 to May 26, 2014.

WHEREAS, the Executive Director and Solid Waste Division Manager, as advised by the SCIA Project Engineer (T&M Associates), have deemed it necessary to provide for an additional six inches (6") of dense graded aggregate (DGA) under the concrete load-out pad due to unsuitable sub-grade conditions;

NOW, THEREFORE, BE IT RESOLVED by the Salem County Improvement Authority Board as follows:

1. The Salem County Improvement Authority Board authorizes Change Order Number #3 to the Contract to Construct Leachate Tank #2 to increase the overall Contract amount in the amount of Five Thousand Three Hundred Sixty Four Dollars and Seventeen Cents ($5,364.17), resulting in a total contract amount of One Million eight Hundred Seventy One thousand three Hundred Eighty Nine Dollars and Seventeen Cents ($1,871,389.17).
2. The Salem County Improvement Authority authorizes its Executive Director to execute said change order.

ATTEST:

Ronald Howard, Alt. Secretary

Robert E. Widdifield, Chairman

July 10, 2014
Date

CERTIFICATION

I hereby certify the above to be a true copy of a resolution adopted by the Salem County Improvement Authority Board at their regular meeting held July 10, 2014.

Ronald Howard, Alt. Secretary
July 2, 2014

Ms. Deborah Turner-Fox, Executive Director  
Salem County Improvement Authority  
199 East Broadway  
Salem, N.J. 08079  

Re: Salem County Solids Waste Facility  
Leachate Storage Tank No. 2 - Change Order No. 3  

Dear Ms. Turner-Fox:

Enclosed for your signature, please find three (3) copies of Change Order No. 3 for the above referenced project. The work included in this change order is for the additional six inch (6") deep excavation and placement of dense graded aggregate (DGA) course under the concrete load-out pad of Leachate Tank No. 2.

This change is necessary due to unsuitable subgrade conditions found under the concrete load-out pad area, where heavy trucks fill the leachate from the tank for transporting to the treatment facility. The concrete load-out pad was designed to be placed on the existing virgin ground. However, after clearing and stripping the area, the virgin ground was found not to meet compaction tests requirements. Because this area is subject to heavy loads from the truck tanks, it is necessary that the area is stable and 95% compaction be achieved. In order to achieve that degree of compaction it was necessary to box-out and excavate an additional six inches (6") and replace the virgin soil with DGA. The resulting tests performed after the DGA was placed and compacted were acceptable reflecting the required 95% density.

The contractor's soil consultant recommended replacing 6 to 8 inches of virgin soil and replacing it with gravel material. T&M reviewed the virgin soil conditions after the area was stripped and recommended excavating 6 inches and replacing the volume with DGA, which compacts better. In order not to delay the development of the final phase of construction, the Contractor was directed to proceed in a time & material basis as allowed by the contract. The final cost for the labor, material and equipment used is $5,364.17.

Please be advised that we have reviewed the documentation as attached and recommend approval of Change Order No. 3 be issued to TKT Construction Co., Inc. in the amount of $5,364.17. Please return two (2) fully executed copies of the change order to this office. We will forward one of the two returned copies of each change order to TKT Construction Company, Inc. for their file. If you should have any questions, please do not hesitate to contact us at 856-722-6700.

Very truly yours,
T & M ASSOCIATES

[Signature]

Jose Calderon, P.E.
Group Manager

Enclosures
N:\SCIA\2013\Construction\change order no. 3. recommendation.docx
**Change Order**

**No. 3**

**Date of Issuance:** July 2, 2014  
**Effective Date:**

**Project:** Leachate Storage Tank #2  
**Owner:** Salem County Improvement Auth.  
**Owner's Contract No.:** NA  
**Contract:** Leachate Storage Tank #2  
**Date of Contract:** September 30, 2013  
**Contractor:** TKT Construction Company, Inc.  
**Engineer's Project No.:** SCJA0130  

**The Contract Documents are modified as follows upon execution of this Change Order:**

**Description:** Due to unstable grade found under the Leachate Tank #2 load-out pad area, contractor was directed to excavate 6" and replace volume with Dense Graded Aggregate material to achieve 95% density.

**Attachments (list documents supporting change):** Documentation attached.  
5/12/14 & 7/02/14 Recommendation from Engineer; 5/11/14-8/27/14 Correspondence from Contractor

**CHANGE IN CONTRACT PRICE:**

<table>
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<th>Original Contract Price:</th>
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<td>$1,863,000.00</td>
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**Increase** from previously approved Change Orders No. 1:

| $3,025.00 |

**Contract Price prior to this Change Order:**

$1,866,025.00

**Increase** of this Change Order:

$5,364.17

**Contract Price incorporating this Change Order:**

$1,871,389.17

**CHANGE IN CONTRACT TIMES:**

**Original Contract Times:**  
- Working days: ☑  
- Calendar days: ☑

- Substantial completion (days or date): March 28, 2014
- Ready for final payment (days or date): March 28, 2014

**Increase** from previously approved Change Orders No.:

| Substantial completion (days): | 59 |
| Ready for final payment (days): | 59 |

**Contract Times prior to this Change Order:**

- Substantial completion (days or date): May 26, 2014
- Ready for final payment (days or date): May 26, 2014

**Increase** of this Change Order:

| Substantial completion (days or date): | 0 |
| Ready for final payment (days or date): | 0 |

**Contract Times with all approved Change Orders:**

- Substantial completion (days or date): May 26, 2014
- Ready for final payment (days or date): May 26, 2014

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**RECOMMENDED: By:**  
[Signature]

**ACCEPTED: By:**  
[Signature]

**Date:** 7/2/14

**Approved by Funding Agency (if applicable):**

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**Prepared by the Engineer's Joint Contract Documents Committee and endorsed by the Construction Specifications Institute.**
JOSE,

AS DIRECTED AND AGREED, ATTACHED IS THE BREAKDOWN FOR ADDITIONAL COST TO PROVIDE DGA UNDER THE LOAD OUT SLABS.
TOTAL: $5,364.17

Kevin C. Goldsmith
Vice President

TKT Construction Co., Inc.
856-728-8228
856-728-8298 fax
<table>
<thead>
<tr>
<th>Description</th>
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<tr>
<td></td>
<td>Equipment</td>
<td>15%</td>
<td>$500.00</td>
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<td></td>
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<td><strong>Total Additional Cost</strong></td>
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Kevin/Ted,

We have reviewed all the testing information provided by you and our site inspector's reports, on the actual in-situ subgrade conditions under the load-out pad area. Based on the test results and in order to provide a stable sub-base for the concrete pad and roadway, we are directing TKT Construction to submit a revised price for the following scope of work:

1. Box-out and under-cut 6 inches below current subgrade.
2. Proof-roll the area to verify stability.
3. Backfill to subgrade elevation with DGA and compact to 95%.
4. Proceed with the original scope of work for the load-out pad construction.

While you provide your revised cost estimate and submit for approval, proceed with Step #1 above as to keep continuity with the work. Please submit your revised cost estimate before Thursday job progress meeting so that we may discuss in order to have final approval by or during the meeting date. Thank you.

Jose Calderon

From: Kcg1649@aol.com
Sent: Monday, May 12, 2014 4:00 PM
To: Jose Calderon; Jeffrey Winegar; mwilliams@sciani.org; dtavernfox@sciani.org
Cc: TedPirsni@aol.com; lommynaggs1@yahoo.com
Subject: RE: SALEM SUBGRADE

PLEASE SEE ATTACHED LETTER
Jose Calderon

From: Jose Calderon
Sent: Monday, May 12, 2014 2:57 PM
To: 'Kcg1649@aol.com'
Cc: TedPtnsn@aol.com; tommywaggs1@yahoo.com; Jeffrey Winegar; dtturnerfox@scianj.org; mwilliams@scianj.org
Subject: RE: SALEM SUBGRADE

Kevin,

We are in receipt of the latest testing information and we have discussed the field conditions with our site inspector. We will be discussing the issue with the Owner this afternoon and we will be providing direction today. You are NOT to demobilize from the site and you are NOT to shut the job down as indicated in your letter. Site activities will continue as directed. Thank you.

Jose

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From: Kcg1649@aol.com [mailto:Kcg1649@aol.com]
Sent: Monday, May 12, 2014 12:40 PM
To: Jose Calderon; Jeffrey Winegar; mwilliams@scianj.org; dtturnerfox@scianj.org
Cc: TedPtnsn@aol.com; tommywaggs1@yahoo.com
Subject: SALEM SUBGRADE

PLEASE SEE ATTACHED LETTER

---

Kevin C. Goldsmith
Vice President

TKT Construction Co., Inc.

856-728-9229
856-728-9298 fax
May 19, 2014

T & M Associates
1256 North Church Street
Moorestown, New Jersey 08057

Attn: Mr. Jose A. Calderon, P.E.

Reference: New Leachate Tank and Improvements
Alloway Township
Salem County, N.J.

Dear Mr. Calderon,

This letter will serve to summarize the soils conditions for the load out pad and entrance road. As indicated in our letter of May 6th, the subsurface soils conditions were deemed unacceptable. The virgin material was considered unsuitable by the soils consultant GAI, as well as your office. Accordingly, we submitted a price to remove the unstable material and replace it with 3/4" clean stone.

You rejected this proposal and sent an e-mail May 12th directing us to cut out 6" and replace same with DGA (dense graded aggregate). As discussed just prior to the job meeting last Thursday May 15th, it's impossible to quantify the actual extent of the soft materials (some locations requiring more than the removal of only 6"), and therefore impossible to quantify the exact amount of DGA required, we are proceeding on a Time & Material basis. Both your chief inspector Mark, and our site Superintendent Tom, will continue to determine the actual time and materials expended.

Obviously, this extra work is beyond the scope of work in our contract and therefore additional time is necessary to complete the work. We recognize that the Owner could not process this change order within a timely fashion and the project would need to be placed on hold. In the spirit of cooperation, we are proceeding with this extra work without a change order for the additional cost and time to our contract.

Very truly Yours,

[Signature]

Theodore L. Peterson
President

cc: SCIA
May 11, 2014

T&M Associates
1256 North Church Street
Moorestown, New Jersey 08057

Attn: Mr. Jose A. Calderon, P.E.,

Reference: New Leachate Tank and Improvements
Salem County, N.J.

Dear Mr. Calderon,

Attached are our Soils Lab results from Friday, May 10th. Again, the sub grade under the Loadout Pad did not meet the specifications for compaction just as Thursday's and Tuesday's (May 6th) results. We did what you asked us to do...scratch the top 6", let the material erode, re-roll and compact, etc., per the specifications) but the compaction results were the same. We submitted a change proposal on May 6th to provide additional stone to alleviate the problem and were told verbally that the Owner "doesn't want to spend any additional money."

So far we have lost only time. We have met our contractual obligations in this regard and await your direction. We have no choice but shut the job down, effective Monday afternoon until such time as we receive your direction.

We have never been part of a project that had a "perfect" design. Always, there are changes and typically they are a result of the Engineer not having "all" of the information of the existing conditions during the design.

Also, there are added costs that will be, and have been incurred that you are aware of and must be addressed. One of these additional costs is the Elevation issue with respect to existing storm lines requiring additional time and material (added fittings) to install the pipe around these interferences.

Your immediate response is required.

Very truly yours,

Kevin C. Goldsmith
Vice President

CC: SCIA
Particle Size Distribution Report

% +5% | % Gravel | % Sand
---|---|---
0.0 | 2.8 | 26.2

Material Description:
- Orange Brown Silty Sand with Trace Gravel (Onsite material from leach out tank)

Project No. P004/00.09  Client: TKT
Project: TJK - Salton County Landfill
Source of Sample: S-2  Sample Number: S-2 (00022)

Date: 3/28/14

GAI Consultants, Inc.
Borwn, PA

Tested By: GB
Checked By: BD

Remarks:
- GAs received maximum: 25.1%
COMPACCTION TEST REPORT

Test specification: 
ASTM D 1557-09 Modified 
ASTM D 4718-87 Overtrive Corr. Applied to Each Test Point

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<th>Elev/Depth</th>
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<th>AASHTO</th>
<th>Nat. Moist.</th>
<th>Sp.G.</th>
<th>LL</th>
<th>PI</th>
<th>% &gt; 3/8 in.</th>
<th>% &lt; No.200</th>
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<td>25.1</td>
<td>2.65</td>
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Rocks CORRECTED TEST RESULTS

| Maximum dry density = 111.3 pcf |
| Optimum moisture = 15.9 % |

Material Description:
Orange Brown Silty Sand with Trace Gravel
(Consists material from leach out tank)

Remarks:
As received moisture: 25.3
Compacted on 4/11/14

Source of Sample: S-2  Sample No. 5-2 (00023)
GAI Consultants, Inc.

Berwyn, PA

Tested By: EG  Checked By: BB
Construction Material Testing Report

Client: T.K.T. Construction
Project Name: Salem County Landfill
Project Address: 52 Mckillop Rd
Project Address: Alloway, NJ
Contractor: T.K.T. Construction

Date: May 9, 2014
Architect:
Construction Mgr.: T.K.T. Construction
Engineer: T&M Associates
Project #: F090968.09

A GAI Consultants, Inc. representative was present at the above referenced site for the following activities:

Concrete:
- yards of _____ psi concrete were placed at the following locations:

Results of required concrete tests are summarized on the attached report of concrete inspection.

Reinforcing Steel:
Reinforcing steel was checked for size, spacing, placement, clearance, lap, cover and cleanliness in accordance with project drawing # ___ shop drawing # ___ at the following locations

Soil Compaction:
Structural Fill: __ back fill ___ other ( ) was tested for compaction using a soil moisture-
Density gauge ___ Sand cone at the following locations:

Project specifications require ___ of maximum dry density as determined in accordance with
ASTM D1557 ___ ASTM D698 Results are summarized on the attached report of soil compaction.

Foundation:
Shallow foundations were checked at subgrade elevations determined by the contractor. Using a geotechnical probe
Dynamic cone penetrometer the following footings were not verified for an allowable soil bearing
pressure of ___ as defined in the project specifications

Additional:
- Masonry ___ Structural Steel ___ Asphalt ___ Fireproofing ___ Other ___

Remarks:

Please refer to page 2 for details of the site activities, observed today.

Weather: Morning-Clear
ARRIVED: 7:00am DEPARTED: 8:30am
Technician Name: William J Cline Jr Technician Signature: William J Cline Jr Date: 5-9-14
Reviewed By: Valerie Moody Signature: Date: 5/10/14

Note: This report covers the location of the work and tested following recognized standards and does not constitute engineering opinion or project control. GAI is not responsible for job daily safety or safety inspections beyond GAI personnel.
Arrived on site as requested for observations as rendered by the project specifications and project drawings. Once onsite this GAI Representative met with the Tom Wagner, foreman from T.K.T. Construction to verify schedules for the day.

GAI field technician monitored TKT leveling soil for truck load out pad. Tom from TKT then rumbled this area approximately 6 inches on May 8, 2014 to help air dry soil due to deflection in soil noted on this GAI field technician’s report dated May 6, 2014.

TKT and this GAI field technician once again rumbled the leveled soil at subgrade elevations for truck load out pad using a 10 ton static roller. Soil appeared to be unstable under equipment. Soil was also check using a conical tipped geotechnical probe. Probe penetrated soil on an average of 8 to 10 inches.

Once again, GAI field technician recommended Tom from TKT over excavate soil to suitable material and replace with

Nothing further to report.
May 5, 2014
R050980.09

Mr. Ted Petersen
TKT Construction Co., Inc.
PO Box 833
Williamstown, NJ 08094

Subgrade Issues, Salem County Landfill
52 McKillip Road, Alloway Township, Salem County, NJ

Dear Mr. Petersen,

At the request of TKT Construction, Tuesday May 6, 2014, GAI Consultants, Inc. field technician, William Cline, arrived on site to test the compaction of the imported fill material used as backfill in the area of the Load Out pipe for new leachate tank which crosses the truck load out pad area.

While onsite, TKT asked the GAI field technician to review the cut area for the proposed Leachate Load Out Pad. The material in the cut area was observed to be orange brown silty sand with trace gravel and appeared to be insitu soils and not a fill material. Due to this condition, the GAI technician and Tom Wagner from TKT conducted a proofroll of the previously excavated area for leachate load out pad. The area was proofrolled using a 10 ton static roller. Visually the soil appeared to be pumping and unstable under weight and operation of the equipment.

The GAI field technician then verified the unsuitable soil condition utilizing a conical tipped geotechnical probe. Using a moderate hard force, the probe penetrated soil an average of 8 to 10 inches. Additional observations indicated that the 8 to 10 inch of soil are at an elevated moisture condition which would preclude effective compaction.

The GAI field technician had an onsite conversation with Tom Wagner from TKT and Alex Selbetta, Senior Construction Engineer from T and M Associates regarding the conditions observed during the leachate load out pad proofroll.

GAI recommends that the soils be undercut to approximately 8 inches below the current subgrade, or to suitable bearing material. This area should then be proofrolled to determine suitable stability and then backfilled with compacted clean stone.

Should you have any additional concerns, or require further engineering consultation, please do not hesitate to contact us.

Sincerely,

Valerie Moody
Valerie Moody, CET
Group Manager

Richard Mahry, P.E.
Senior Engineering Manager
NJ PE G02702800