

**CENTRAL CONNECTICUT STATE UNIVERSITY  
NEW MAINTENANCE / SALT SHED FACILITY  
NEW BRITAIN, CONNECTICUT  
PROJECT: BI- RC - 331**

<b>BID OPENING</b>	<b>1:00 P.M.</b>	<b>December 15, 2010</b>
<b>ADDENDUM NUMBER 02</b>	<b>DATE OF ADDENDUM</b>	<b>December 09, 2010</b>

The following clarifications are applicable to drawings and specifications for the project referenced above.

Item 1

DELETE: Section 099100 in its entirety.

Item 2

Section 101000 shall be used for coordination and reference only. Visual Display Boards shall be NIC.

Item 3

Q: The specifications contain section 104250, Room Identification Signage. The specification states that the signage requirements are identified in the door schedule on the project drawings. The door schedule does not have any reference for signage. The remaining drawings do not appear to indicate signage except at the toilet rooms. Can you please clarify this requirement?

A: Room identification signage is limited to the Toilet Rooms as shown on A4.01

Item 4

Q: Regarding Section 105060, Wardrobe Lockers, can you please confirm the base type and detail as well as whether the lockers are prepared to receive padlocks by others or built-in combination locks?

A: Refer to Section 105060 for locker base and lock mechanism requirements.

Item 5

Q: The trench drain on C-103 with section on C-203 indicates heavy duty frames and grates. The layout indicates the system going around a radius corner. Can you please provide some clarification on how this trench drain will be installed? The components come in straight lengths.

A: A sectional installation would be one acceptable way to install the trench frame

Item 6

Q: On wall sections such as those on A3.02, the exterior metal panels are indicated as having exposed fasteners. The specifications indicate to use the manufacturer's standard concealed fastener panel in section 2.04.B.2 of section 131200. Can you please confirm what is required? Exposed fasteners would seem appropriate for this project.

A: Provide concealed fastener panels as stated in the Specifications, and in accordance with the Correlation and Intent Section of the General Conditions (00 72 00, Article 3.1.4).

Item 7

Q: Substitution Request, Section 233423 HVAC Power Ventilators.

A: Section 233423 HVAC Power Ventilators is not proprietary and does not limit product submittals, subject to compliance with specification requirements.

Item 8

Q: Substitution Request, Section 233713 Diffusers, Registers and Grilles

A: Section 233713 Diffusers, Registers and Grilles is not proprietary and does not limit product submittals, subject to compliance with specification requirements.

Item 9

Q: On Drawing C-103, what is the difference between "CTDPW/CCSU Rip Rap Apron" and "Provide and Install 10' by 15' modified Rip Rap Pad"?

A: They are the same. The CTDPW/CCSU indicates it is a shared apron. The second note is the construction note.

Item 10

Quantities of site material removal and replacement are to be developed by the bidder. See Geotechnical Notes on Drawing S-101 for building excavation and backfill requirements, and the remainder of the Documents for specific excavation and backfill requirements related to the site and/or structures.

Item 11

See Geotechnical Notes on Drawing S-101 for building excavation and backfill requirements, and the remainder of the Documents for specific excavation and backfill requirements related to the site and/or structures. Payment for excavation and backfill are part of the respective bids for the work.

Item 12

Q: Are the concrete footings and piers included in the roof structure supplemental bid #3 in the Recycling Facility?

A: Drawings A9.01, A10.01 and A11.01 clearly indicate the extent of the supplemental bid as including only the superstructure and roof assembly for the Recycling Facility. Footings and Piers are excluded from the Supplemental Bid and are part of the Base Bid.

Item 13

The Transfer Switch is described (800A-4 pole automatic transfer switch with switched neutral) on drawings E0.02 and the riser diagram on E2.01

Item 14

Q: Drawing C-107 indicates alternate / supplemental bid, light poles, bases and fixtures. Which bid does this belong to?

A: Refer to Drawing E1.00. If the Roof Supplemental Bid is accepted, provide fixtures type CC shown on E1.00 at the Recycling Building Roof, and eliminate the two fixtures type AA shown

as Supplemental Bid Fixtures on Drawing C-107. If the Roof Supplemental Bid is not accepted, the two type AA fixtures are to be provided, so they are therefore part of the Base Bid.

Item 15

Q: Drawing E1-01 Power key notes #6 calls for junction box at ceiling level for connection to cord reels, Who provides cord reels? If electrical Sub does please provide spec section.

A: Cord Reels are part of FF&E and not part of the construction contract.

Item 16

Q: De-Icing Facility: Sheet A12.01, Sections 3 and 5, it appears that a layer of concrete block is below grade. Sheet S1.03 detail 4 appears that the concrete block layers start above grade. Please clarify.

A: The bottom of the concrete block wall should start at 3'-6" below slab elevation.

Item 17

Q: Section 033000 Cast-in place concrete, 2.03, K. Fibrous Reinforcement and M. Concrete Moisture-proofing Admixture. Please clarify which building and structure these could apply.

A: Fibrous Reinforcement is not required on this project. Concrete Moisture-proofing Admixture shall be limited to the slab of the Maintenance Building only (and as required for accepted alternate bids).

Item 18

Q: Compactors. Site Plan E1.00 indicates wire size for the compactor feeds are 3-#4 and 1-#8G. The one line riser diagram on E2.01 note #16 calls for 3-#8.

A: Under Correlation and Intent, 3-#4 and 1-#8G.

Item 19

Q: Site Lighting Poles (type AA and BB). The lighting schedule does not specify round or square poles or what height.

A: Refer to C-107 for that information (round, 30').

Item 20

Q: Overhead doors call for 25PSF wind loading. Manufacturer only allows 1 section of glass, which requires double end stile and reinforced struts. Drawing shows 3 sections of glass. Please clarify.

A: The indicated configuration is available from many door manufacturers, and will be addressed during shop drawing review.

Item 21

Q: There are no sidewall wind braces shown along column lines 1 and 7. Portal frame bracing would be required on column line 1. This may increase the bay width as the columns will conflict with the masonry openings. Please clarify.

A: This depends on which building manufacturer designs the structure. As with all pre-engineered buildings, shop drawing submittals will be critical to coordination. This issue, if warranted, will be addressed during shop drawing review.

Item 22

Q: The exterior masonry wall extends up from the foundation 3'-4" and a structural girt is shown to transfer the horizontal load of 300 plf to the rigid frame. Would it be acceptable to support this loading condition by constructing a vertical cantilever of the foundation using grouted reinforced masonry units?

A: See Substitution Procedures in Division 1. This method would seem appropriate, but would better be addressed during shop drawing review.

Item 23

Q: A minimum of 2'-0" clearance is required for flange bracing shown at the overhead door opening. The dimension of 1'-8" between doors is not wide enough given the minimum column clearance to the finished opening of 1'-0". Please clarify.

A: This also depends on which building manufacturer designs the structure. As with all pre-engineered buildings, shop drawing submittals will be critical to coordination. This issue, if warranted, will be addressed during shop drawing review.

Item 24

The Geotechnical Report for this project (Dr. Clarence Welti dated December 3, 2003) is herein made an integral part of these Specifications, including pages 1 to 7, B-1 to B-6, and Test Boring Location Plan.

Item 25

Drawing C-107: Delete the note "Alternate/Supplemental Bid Lightpoles, Bases and Fixtures" and replace with the following note, as it pertains to the two Type AA light fixtures: "Fixture Type AA to be part of the Base Bid, to be eliminated if Supplemental Bid #4 is accepted. Typical of 2."

Item 26

Drawing S-103: Add the following note to Detail 4: "Bottom of Concrete Block Wall shall be 3'-6" below slab elevation minimum. Install concrete block wall in accordance with manufacturer's written recommendations."

Item 27

Drawing E1.00: Revise Note 9, delete the words "Roof Alternate" and replace with "Supplemental Bid #4."

Item 28

In Section 033000, 2.03

DELETE: Paragraph K. Fibrous Reinforcement.

End of Addendum Number 02 (Two)



Gail Blythe, Associate Fiscal Administrative Officer  
Department of Public Works

**DR. CLARENCE WELTI, P.E., P.C.**

GEOTECHNICAL ENGINEERING

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December 3, 2003

Mr. Nick Ferzacca AIA  
Design Group One Architects, LLC.  
48 Saybrook Road  
Essex, CT 06426

**Re: Proposed Maintenance Garage and Salt Storage Shed (Maintenance Facility); Central Connecticut State University; New Britain, CT; State Project BI-RC-331-ARC Geotechnical Study**

Dear Nick:

**1.0** Herewith is the data from the test borings taken at the above referenced site. Three test borings were drilled at each of the proposed structures to a maximum depth of 26.5 feet. The borings were sampled continuously through the fill. *The borings were drilled by Clarence Welti Associates, Inc. and sampling was conducted by this firm solely to obtain indications of subsurface conditions as part of a geotechnical exploration program. No services were performed by Dr. Clarence Welti, P.E., P.C. to evaluate subsurface environmental conditions.*

**2.0** The Subject Project will include the construction of (1) a slab on grade Maintenance Garage with a footprint of about 4,500 sf and (2) a Salt Storage Shed with a footprint of about 3,800 sf. There will be pavement over much the site outside the building, which will be largely accessible to heavy truck traffic.

**2.1** The topography of the site prior to recent grading ranged from about Elev. 82 to about Elev. 98. The site is presently being worked and the grades appear to be close to proposed grades. The proposed grades will be between Elev. 100 and Elev. 98 with the building floors at Elev. 100.5

**3.0** The Geologic Origin of the natural inorganic soils is from glacial lake deposits. The deposits generally consist generally of stratified sand or silts with trace to little gravel.

**3.1** The Soils Cross Sections from the borings are generally as follows:

**Maintenance Garage (Borings B-1 thru B-3)**

FILL; Silt and fine to medium SAND; some Gravel, little to some Asphalt, Bricks and Concrete to 9 to 11 feet below grade, loose to compact

SILT with traces of organic materials to 2 to 4 feet below fill, loose

SILT with little fine Sand and Gravel to 25+ feet below grade, medium compact

**Salt Shed (Borings B-4 thru B-6)**

FILL; Silt and fine to medium SAND, some Gravel, trace Cobbles to as deep as 18 feet, compact to loose

Locally; fine SAND and SILT mixed with Topsoil, trace Wood to 2 to 3 feet below Fill, loose

SILT, little fine to medium Sand, trace to little Gravel, trace Clay to 25 + feet below grade, medium compact

3.2 The groundwater level was evident at the completion of borings at 7 to 19 feet below the existing grades. The elevation of the water table from the boring data is quite variable, which probably relates to the low permeability of some of the soils. It is probable that the long term water table will be between Elev. 87 to 93.

4.0 The Criteria for Foundation Type and Loading are as follows:

**For the Vehicle Maintenance Garage**

1. The maximum total settlement shall not exceed 1" and the maximum differential settlement shall not exceed ½ the maximum settlement.
2. The foundation type and structure must address seismic requirements of the building code.
3. The Slab on Grade must not settle differentially more than ½" in excess of the structure subsidence.

**For the Salt Storage Shed (Presumed to be a wood structure with Bituminous Concrete Floor)**

1. The maximum settlement shall not exceed 2" and the maximum differential settlement shall not exceed ½ of the maximum settlement
2. The foundation structure must address the seismic requirements of the building code.
3. The bituminous concrete base shall not settle more than 2" and with angularity of differential settlement less than 1" in 50 feet.

*This criteria is generally applied to buildings of similar character. If the owner, the architect, the*

*engineers find the criteria as unacceptable, the writer shall be informed to permit additional geotechnical input.*

**4.1** Regarding item 2 (above), the site coefficient for seismic design is  $S_s = 1.0$ . The peak velocity related acceleration value ( $A_s$ ) is **0.11**. The sliding factor for concrete footings cast on soil will be **0.6**.

**5.0 Regarding Foundation Type**, the logical type for both structures will be spread footings. The preparation will vary at the two buildings

**5.0.1 For the Maintenance Facility** there is up to 11 feet of existing "uncontrolled" fill on the site of the proposed building footprint. Footings for this structure shall have at least 6 feet of controlled fill beneath the footing and the slab on grade shall have at least 8 feet of controlled fill below the floor. The performance requirements are somewhat more stringent for a heated masonry structure with concrete floor, with plumbing facilities on the floors as well as possible truck lifts. The fill at this building has some building debris mixed with the soil. It is recommended that this material be excavated and be deposited over parts of the site requiring fill. The fill should be removed to about 8 feet below grade and to at least 10 feet outside the building footprint. The existing sub-grade shall be proof rolled with vibratory compactor with minimum static weight of 10 Tons and a minimum dynamic force of 20 Tons. There shall be at least 4 passes of the roller over the sub-grade. If in the course of proof rolling the soil surface shows evident weaving due to excessive moisture, it will necessary to excavate 18" of the existing fill and place an 18" layer of  $\frac{1}{2}$ " stone in the unstable areas. The controlled fill shall consist of material described in section 6.0 below. The fill shall be carried to within 8" of the underside of the floor slab.

**5.0.2 At the Salt Storage Shed** the performance criteria are somewhat less stringent based on the type of structure and the usage of the structure. There is up to 16 feet of fill under the building footprint. The fill appears to be primarily earth type with minimal amounts of building debris. The preparation under the subject structure shall include an initial stripping of 5 feet of the existing fill; proof rolling the pad plus an area outside the pad by at least 15 feet with a vibratory compactor with a minimum static weight of 10 Tons and minimum dynamic force of 20 Tons. There shall be at least 4 passes of the compactor. If weaving occurs under the compactor doing the proof rolling, at least 18" of the existing fill shall be removed in the weaving areas and shall be replaced with 18" of crushed  $\frac{1}{2}$ " stone. The fill above the initially proof rolled area shall conform to the gradation and compaction requirement of section 6.0 below. The controlled fill shall be carried to within 12" of the underside of the proposed bituminous concrete.

**5.1 The Allowable Bearing Pressure** with the above preparations can be 2.0 Ton/sf. The allowable loading can be increased by 1/3 for seismic or wind loading. At retaining walls the maximum pressure on the toe can be 50% higher than the average pressures, cited above.

**5.2 Regarding lateral loading** on loading docks and retaining walls which are a part of the building this should be with at rest pressures. The at rest pressure coefficient (to be multiplied by unit weight

of backfill) is 0.45. Retaining systems which are separate from the building can be design based on normal active earth pressure using an active pressure coefficient of 0.28.

5.3 The **Frost Protection Depth** in accordance with the Building Code is 3.5 feet below finish grades in areas which are exposed to weather.

5.4 The **Foundation Design Parameters** are as follows:

Design Parameters	Values
Allowable Bearing Pressure on the controlled fill	2.0 Tons/sf
Backfill Unit Weight (Section 6.0)	125 pcf
Angle of Internal Friction (Backfill) $\phi$	34°
At Rest Coefficient	0.45
Active Coefficient (level backfill)	0.28
Sliding Coefficient, Concrete to Soil	0.6
Prepared Subgrade Modulus	200 pci
Site Coefficient (S)	1.0
Peak Velocity Related Acceleration ( $A_v$ )	0.11
Frost Protection Depth	3.5 feet

6.0 Regarding **Controlled Fill, Backfill of Excavations for Footings and Walls, and Underlayment beneath slabs on grade (to within 8" of the slab bottom at the Maintenance Garage and to within 12" of the paving at the Salt Storage Shed )** the material shall conform to the following gradation:

Percent Passing	Sieve Size
100	3.5"
50 - 100	3/4"
25 - 100	No.4

The fraction, passing the No.4 sieve shall have less than 15%, passing the No. 200 sieve.

**The on site excavated soils generally will not conform to this gradation.**

All controlled fill and backfill must be compacted to at least 95% of modified optimum density in accordance with ASTM D-1557.

**6.1 Regarding the slab on grade at the Maintenance Garage, the 8" immediately beneath the slab shall consist of material conforming to the following gradation:**

Percent Passing	Sieve Size
100	1.5"
85 - 100	1.0"
75 - 100	3/4"
25 - 60	1/4"
5 - 30	No. 40
2 - 12	No. 100
0 - 5	No. 200

**6.2 Regarding the base preparation for the Salt Storage Shed the upper 12" beneath the Bituminous Concrete shall consist of Processed Stone Base, conforming to the gradation requirements of CTDOT 814A; Section M.0.5.01. Compaction of this material shall be to at least 97% of modified optimum density.**

**6.2.1 The Bituminous Concrete thickness at the Salt Storage Shed shall be 4.5", placed in two courses in accordance with CTDOT 814A requirements.**

**7.0 Regarding Earthwork, the on site soils will generally be defined as OSHA Type C, which will require sloping of unshored excavations exceeding 5 feet in height to slopes less than 34° from the horizontal (1½H : 1V).**

**7.1 Site Preparation will include the following:**

1. Level existing soil to 24" to 30" below proposed pavement grade (to permit placement of proposed material beneath the pavement) and proof roll to with a 10 Ton (minimum static weight).
2. Place excavated materials from the Maintenance Building and Salt Storage Shed in layers not exceeding 12" with compaction to 95+% of modified optimum density to the bottom of the pavement section cited in section 7.1.1 below.

3. Supply, place, and compact borrow material as required to at least 95% of modified optimum density. The borrow material shall conform to the following gradation:

Percent Passing	Sieve Size
100	6"
50 - 100	3/4"
25 - 100	No.4

The fraction, passing the No. 4 sieve, shall have less than 25%, passing the No. 200 sieve. All fill shall be compacted to at least 95% of modified optimum density (ASTM 1557D).

4. Excess materials above the required sub-grade shall be removed from the site.

**7.1.1 The pavement section for areas primarily for truck traffic shall be as follows:**

1. Bituminous Concrete; 2.0" of Class 2 over 2.5" of Class 1
2. Processed Stone Base CTDOT 814A; Section M.05.01; 8" in two courses
3. At least 16" of material conforming to the gradation in section 6.0

**7.1.1a For areas predominantly for passenger car traffic the section shall be as follows:**

1. Bituminous Concrete; 3.5" in two courses
2. Processed Stone Base 6" in one course
3. At least 12" of material conforming to the gradation in section 6.0

**7.2 Fill slopes shall be 3:1**

**7.3. Regarding utility underlay and backfill** there shall be at least 8" of crushed 3/4" stone beneath and over the top of the storm and sanitary sewers wrapped in a geotextile. The trench backfill shall conform to the gradation in section 6.0 above

**8.0** This report has been prepared for specific application to the subject project in accordance with generally accepted soil and foundation engineering practices. No other warranty, express or implied, is made. In the event that any changes in the nature, design and location of structures are planned, the conclusions and recommendations contained in this report should not be considered valid unless the changes are reviewed and conclusions of this report modified or verified in writing.

The general recommendations submitted in this report are based in part upon data obtained from referenced explorations. The extent of variations between explorations may not become evident until construction.

Dr. Clarence Welti, P.E., P.C., should perform a general review of the final design and specifications in order that geotechnical design recommendations contained in the final Geotechnical Report may be properly interpreted and implemented as they were intended.

If you have any questions please call me.

Very truly yours

A handwritten signature in cursive script, appearing to read "Clarence Welti".

Clarence Welti Ph.D., P. E.  
President, Dr. Clarence Welti P.E.; P.C.

A:\designgroup1\ccsu\90603

cc Paul Bellagamba, P. E.  
Purcell Associates  
90 National Drive  
Glastonbury, CT 06033

CLARENCE WELTI ASSOC., INC. P.O. BOX 397 GLASTONBURY, CONN 06033			CLIENT  PURCELL ASSOCIATES			PROJECT NAME CCSU MAINTENANCE FACILITY		
						LOCATION NEW BRITIAN, CT		
	AUGER.	CASING	SAMPLER	CORE BAR	OFFSET	SURFACE ELEV. 99 +/-		HOLE NO. B-1
TYPE	HSA		SS		LINE & STA.	GROUND WATER OBSERVATIONS		START DATE 11/21/03
SIZE I.D.	3.75"		1.375"		N. COORDINATE	AT 12.5 FT AFTER 0 HOURS		
HAMMER WT.			140lbs		E. COORDINATE	AT FT AFTER HOURS		FINISH DATE 11/21/03
HAMMER FALL			30"					
DEPTH	SAMPLE			A	STRATUM DESCRIPTION + REMARKS	ELEV.		
	NO.	BLOWS/6"	DEPTH					
0	1	1-4-4-2	0.00'-2.00'		RED/BR SILT AND FINE-MED SAND, SOME FINE-MED GRAVEL, LITTLE ASPHALT & BRICKS - FILL			
	2	10-13-13-60	2.00'-3.83'					
5	3	60	4.00'-4.50'			95		
	4	42-42-38-28	6.00'-8.00'					
	5	16-9-6-7	8.00'-10.00'					
10	6	4-4-5-5	10.00'-12.00'		BR. SILT AND FINE SAND, TRACE ROOTS	9.0 90		
					BR. FINE SAND, SOME SILT	13.0 85		
15	7	3-8-10	15.00'-16.50'		RED/BR. SILT	16.5 80		
20	8	5-7-7	20.00'-21.50'					
25	9	15-18-18	25.00'-26.50'					
					BOTTOM OF BORING @ 26.5'	26.5 70		
30								
35						65		
LEGEND: COL. A: SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%						DRILLER: GRAVES INSPECTOR: SHEET 1 OF 1 HOLE NO. B-1		

CLARENCE WELTI ASSOC., INC. P.O. BOX 397 GLASTONBURY, CONN. 06033				CLIENT PURCELL ASSOCIATES		PROJECT NAME CCSU MAINTENANCE FACILITY	
						LOCATION NEW BRITAIN, CT	
	AUGER	CASING	SAMPLER	CORE BAR	OFFSET	SURFACE ELEV. 99 +/-	HOLE NO. B-2
TYPE	HSA		SS		LINE & STA.	GROUND WATER OBSERVATIONS	
SIZE I.D.	3.75"		1.375"		N. COORDINATE	AT OFFSET AFTER 0 HOURS	START DATE 11/21/03
HAMMER WT.			140lbs		E. COORDINATE	AT FT. AFTER HOURS	FINISH DATE 11/21/03
HAMMER FALL			30"				
DEPTH	SAMPLE			A	STRATUM DESCRIPTION + REMARKS	ELEV.	
	NO.	BLOWS/6"	DEPTH				
0	1	1-1-0-1	0.00'-2.00'		RED/BR. SILT AND FINE-MED. SAND, SOME FINE-MED. GRAVEL LITTLE ASPHALT, BRICKS & CONCRETE - FILL		
	2	1-20-29-22	2.00'-4.00'				
5	3	24-15-10-8	4.00'-6.00'			95	
	4	9-7-4-5	6.00'-8.00'				
	5	5-9-9-8	8.00'-10.00'			90	
10	6	6-5-5-4	10.00'-12.00'		BR. SILT, TRACE ROOTS	10.0	
					RED/BR. SILT, TRACE FINE SAND & FINE GRAVEL	12.0	
						85	
15	7	9-9-10	15.00'-16.50'				
						80	
20	8	4-12-8	20.00'-21.50'		RED/BR. SILT, SOME FINE-MED. GRAVEL	20.0	
						75	
25	9	9-8-10	25.00'-26.50'				
					BOTTOM OF BORING @ 26.5'	26.5	
30						70	
						65	
35							

LEGEND: COL. A:  
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON  
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER: GRAVES  
INSPECTOR:  
SHEET 1 OF 1 HOLE NO. B-2

<b>CLARENCE WELTI ASSOC., INC.</b> P.O. BOX 397 GLASTONBURY, CONN. 06033				CLIENT <b>PURCELL ASSOCIATES</b>		PROJECT NAME <b>CCSU MAINTENANCE FACILITY</b>	
						LOCATION <b>NEW BRITIAN, CT</b>	
	AUGER	CASING	SAMPLER	CORE BAR	OFFSET	SURFACE ELEV. 99 +/-	HOLE NO. <b>B-3</b>
TYPE	HSA		SS		LINE & STA.	GROUND WATER OBSERVATIONS	
SIZE I.D.	3.75"		1.375"		N. COORDINATE	AT NOREPT AFTER 0 HOURS	START DATE 11/21/03
HAMMER WT.			140lbs		E. COORDINATE	AT FT. AFTER HOURS	FINISH DATE 11/21/03
HAMMER FALL			30"				
DEPTH	SAMPLE			A	STRATUM DESCRIPTION + REMARKS	ELEV.	
	NO.	BLOWS/6"	DEPTH				
0	1	3-15-20-18	0.00'-2.00'		RED/BR. SILT AND FINE-MED. SAND, SOME FINE-MED. GRAVEL, LITTLE ASPHALT, CONCRETE & BRICKS - FILL	95	
	2	11-11-7-5	2.00'-4.00'				
5	3	6-6-3-3	4.00'-6.00'				
	4	4-4-4-3	6.00'-8.00'				
	5	5-4-3-4	8.00'-10.00'				
10	6	4-4-5-4	10.00'-12.00'				
					BR. SILT, TRACE ROOTS	11.0	
					RED/BR. SILT, LITTLE FINE GRAVEL	14.0	
15	7	8-10-10	15.00'-16.50'			80	
						75	
20	8	8-10-11	20.00'-21.50'				
25	9	5-7-11	25.00'-26.50'				
					BOTTOM OF BORING @ 26.5'	26.5	
						70	
						65	
30							
35							
LEGEND: COL. A: SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%						DRILLER: GRAVES INSPECTOR:	
						SHEET 1 OF 1      HOLE NO. <b>B-3</b>	



CLARENCE WELTI ASSOC., INC. P.O. BOX 397 GLASTONBURY, CONN 06033				CLIENT  PURCELL ASSOCIATES		PROJECT NAME CCSU MAINTENANCE FACILITY	
						LOCATION NEW BRITIAN, CT	
	AUGER	CASING	SAMPLER	CORE BAR	OFFSET	SURFACE ELEV. 99 +/-	HOLE NO. B-5
TYPE	HSA		SS		LINE & STA.	GROUND WATER OBSERVATIONS	
SIZE I.D.	3.75"		1.375"		N. COORDINATE	AT 19.0 FT. AFTER 0 HOURS	START DATE 11/25/03
HAMMER WT.			140lbs		E. COORDINATE	AT FT. AFTER HOURS	FINISH DATE 11/25/03
HAMMER FALL			30"				

DEPTH	SAMPLE			A	STRATUM DESCRIPTION + REMARKS	ELEV.	
	NO.	BLOWS/6"	DEPTH				
0	1	9-60	0.00'-1.00'		RED/BR. SILT AND FINE-MED SAND, SOME FINE-CRS. GRAVEL, FEW COBBLES - FILL		
	2	9-4-5-14	2.00'-4.00'				
5	3	6-7-5-3	4.00'-6.00'				95
	4	3-3-4-4	6.00'-8.00'				
	5	4-5-4-6	8.00'-10.00'				90
10	6	3-4-4-4	10.00'-12.00'				
	7	4-5-4-3	12.00'-14.00'				85
15	8	3-6	14.00'-15.00'				
	9	4-7-6-17	15.00'-17.00'			RED/BR. SILT, LITTLE FINE SAND, TRACE GRAVEL	16.0
	10	14-21-27-19	17.00'-19.00'			RED/BR. SILT, LITTLE CLAY, TRACE GRAVEL	19.0
20							75
25	11	8-10-11-10	25.00'-27.00'				
					BOTTOM OF BORING @ 27.0'	27.0	
30						70	
						65	
35							

LEGEND: COL. A:  
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON  
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER: LINDENBERGER  
INSPECTOR:

SHEET 1 OF 1 HOLE NO. B-5

<b>CLARENCE WELTI ASSOC., INC.</b> P.O. BOX 397 GLASTONBURY, CONN 06033				CLIENT <b>PURCELL ASSOCIATES</b>			PROJECT NAME <b>CCSU MAINTENANCE FACILITY</b>		
							LOCATION <b>NEW BRITAIN, CT</b>		
	AUGER	CASING	SAMPLER	CORE BAR	OFFSET	SURFACE ELEV. 99+/-		HOLE NO. <b>B-6</b>	
TYPE	HSA		SS		LINE & STA.	GROUND WATER OBSERVATIONS AT 7.0 FT AFTER 0 HOURS		START DATE 11/21/03	
SIZE I.D.	3.75"		1.375"		N. COORDINATE	AT FT AFTER HOURS		FINISH DATE 11/21/03	
HAMMER WT.			140lbs		E. COORDINATE				
HAMMER FALL			30"						
DEPTH	SAMPLE			A	STRATUM DESCRIPTION + REMARKS	ELEV			
	NO.	BLOWS/6"	DEPTH						
0	1	1-1-1-1	0.00'-2.00'		BR. SILT AND FINE SAND				
	2	2-1-6-9	2.00'-4.00'						
5	3	9-7-7-10	4.00'-6.00'		RED/BR. SILT, TRACE FINE GRAVEL	4.0			
						95			
						90			
10	4	7-7-6	10.00'-11.50'						
						85			
15	5	9-12-16	15.00'-16.50'						
					RED/BR. SILT, SOME FINE-MED. SAND & FINE GRAVEL	17.0			
						80			
20	8	9-14-20	20.00'-21.50'						
					BOTTOM OF BORING @ 21.5'	21.5			
						75			
25									
						70			
30									
						65			
35									
<b>LEGEND: COL. A:</b> SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%						DRILLER: GRAVES INSPECTOR:			
						SHEET 1 OF 1		HOLE NO. <b>B-6</b>	



INVITATION TO BID

**FOR PROJECTS ESTIMATED TO COST MORE THAN \$500,000.00**

ADV. NO.: 11-07

ADV. DATE: November 5, 2010

SEALED BIDS FROM CONTRACTORS WHO HAVE BEEN PREQUALIFIED IN THE DAS CLASSIFICATION NOTED BELOW SHALL BE ADDRESSED TO THE DEPARTMENT OF PUBLIC WORKS - STATE OF CONNECTICUT FOR:

<b>Project Title:</b>	Central Connecticut State University New Maintenance/Salt Shed Facility New Britain, CT
<b>Project Number:</b>	<b>BI-RC-331</b>
<b>DAS Classification:</b>	Group C (General Building Construction)
<b>Special Requirement:</b>	N/A
<b>Cost Estimate Range:</b>	\$ 1,800,000. – \$2,000,000.
<b>Plans &amp; Specs Ready For Sale Date:</b>	November 10, 2010
<b>A NON-REFUNDABLE FEE OF PER SET IS REQUIRED</b>	\$ 112.00 <b>Checks</b> should be made payable to “ <b>Treasurer, State Of Connecticut</b> ” and should <i>include</i> the prospective bidder’s correct mailing address, email address, telephone and fax numbers. <b>USE A SEPARATE CHECK FOR EACH PROJECT.</b>
<b>Examination or Purchase of Plans &amp; Specs</b>	at the State Of Connecticut, <b>Department Of Public Works, Plans And Specifications Section, Room No. G-36, 165 Capitol Avenue, Hartford, CT 06106</b> , during the hours of 7:30 A.M. to 3:00 P.M. (Monday-Friday) or by addressing a request to the above address with <b>your Fedex number.</b>
<b>Pre-Bid Conference:</b>	All prospective bidders are required to attend a <b>MANDATORY</b> Pre-Bid Conference
<b>Pre-Bid Conference Time</b>	To be held at 10:00 AM.
<b>Pre-Bid Conference Date</b>	On November 17, 2010
<b>Pre-Bid Conference Location</b>	At Central Connecticut State University, 40 Wells Street, New Britain, CT. East Hall Conference Room 2.
<b>Pre-Bid Conference Registration</b>	All prospective bidders are required to <i>properly</i> register. <i>Proper</i> registration means that the attendee has <i>signed</i> his or her name to the <b>official roster</b> and <i>listed</i> the name and address of the company he or she represents on the official roster no later than the designated <b>start time</b> of the pre-bid conference. <b>No</b> attendee will be allowed to register <i>after</i> the advertised start time of the pre-bid conference. <b>Bids</b> submitted by contractors who have <i>not properly</i> registered and attended the pre-bid conference shall be <i>rejected</i> as <b>non-responsive.</b>
<b>Pre-Bid Conference Contact</b>	<b>Jose Pezo, Construction Coordinator</b>
<b>BID OPENING DATE:</b>	<b>December 15, 2010</b>

<b>Receipt of Bid Package</b>	Bids will be received at the <b>State Office Building, 165 Capitol Avenue, Hartford, CT, 06106</b> in <b>Room No. G-36</b> UNTIL <b>1:00 P.M.</b> on the date shown above and thereafter publicly opened and read aloud in <b>Room No. G-32.</b>
<b>Bid Results:</b>	Bid results are posted on the <b>DPW Website</b> in approximately two (2) days after the bid opening date.
<b>Set-Aside Participation</b>	25%
<b>Including MBE</b>	6.25%
<b>Gift And Campaign Contribution Certification</b>	If awarded the subject contract and the contract has a value of <b>\$50,000</b> or more the contractor will be required to sign and submit, at the time of contract execution, a <b>Gift And Campaign Contribution Certification</b> . See the DPW home page, <a href="http://www.ct.gov/dpw">http://www.ct.gov/dpw</a> , click on <b>Affidavits</b> . For the purposes of signing the Certification, the "date DPW began planning" the subject project or services is such date noted below.
<b>Date DPW Began Planning the Subject Project:</b>	8/29/2001
<b>Summary and Affidavit Regarding State Ethics</b>	Any one seeking a contract with a value of more than \$500,000 shall provide with their <b>bid</b> an <b>Ethics Affidavit</b> located at <b>CT DPW Website</b> ( <a href="http://www.ct.gov/dpw">www.ct.gov/dpw</a> ). Failure to provide this affidavit with the bid proposal shall result in rejection of the bid.
<b>Bid Security</b>	As <b>security</b> , <i>each bid</i> must be accompanied by a CERTIFIED CHECK made payable to " <b>Treasurer, State of Connecticut</b> ," or the bid must be accompanied by a BID BOND, in the form required by the awarding authority and having surety thereto such Surety Company or Companies as are authorized to do business in this State and/or accepted by the Commissioner of the Department of Public Works for an amount not less than <b>10%</b> of the bid.
Bidders are advised that <i>both</i> the DEPARTMENT OF ADMINISTRATIVE SERVICES PREQUALIFICATION CERTIFICATE and UPDATE STATEMENT <b>must</b> accompany the bid proposal for projects <i>estimated to exceed</i> Five Hundred Thousand Dollars (\$500,000.00) (C.G.S. 4b-91 as amended). <b><i>Failure to supply them with the bid will result in rejection of the bid</i></b>	
Department of Administrative Services (DAS) Contractor Prequalification Program: <a href="http://www.das.state.ct.us/Purchase/New_PurchHome/Busopp.asp">http://www.das.state.ct.us/Purchase/New_PurchHome/Busopp.asp</a>	
<b>To access Executive Orders:</b> <a href="http://www.ct.gov/governorrell/cwp/browse.asp?a=1719&amp;bc=0&amp;c=18433">http://www.ct.gov/governorrell/cwp/browse.asp?a=1719&amp;bc=0&amp;c=18433</a>	
<b>To access the Department of Public Works Web Site:</b> <a href="http://www.ct.gov/dpw">http://www.ct.gov/dpw</a>	

**Performance and Labor and Material Bonds** to be furnished by the bidder awarded the contract shall be an amount not less than 100% of the contract price.

The Commissioner reserves the right to do any of the following without liability, including but not limited to: (a) waive technical defects in the bid proposal as he or she deems best for the interest of the State; (b) negotiate with a contractor in accordance with Connecticut General

Statutes Section 4b-91;( c) reject any or all bids; (d) cancel the award or execution of any contract prior to the issuance of the "Notice To Proceed;" and, (e) advertise for new bids.

*Nonresident contractors: At the time of contract signing a certificate from the Commissioner of Revenue Services must be provided which evidences that C.G.S. 12-430 for non-resident contractors has been met. For details call the Department of Revenue Services at (860) 541-3280, ext. 7.*

**EXECUTIVE ORDERS:**

The Contract is subject to the provisions of Executive Order No. Three of Governor Thomas J. Meskill, promulgated June 16, 1971, concerning labor employment practices, Executive Order No. Seventeen of Governor Thomas J. Meskill, promulgated February 15, 1973, concerning the listing of employment openings and Executive Order No. Sixteen of Governor John G. Rowland promulgated August 4, 1999, concerning violence in the workplace, all of which are incorporated into and are made a part of the Contract as if they had been fully set forth in it. At the Contractor's request, the Client Agency shall provide a copy of these orders to the Contractor. The Contract may also be subject to Executive Order No. 7C of Governor M. Jodi Rell, promulgated July 13, 2006, concerning contracting reforms and Executive Order No. 14 of Governor M. Jodi Rell, promulgated April 17, 2006, concerning procurement of cleaning products and services, in accordance with their respective terms and conditions.

This contract is subject to the provisions of the Department of Public Works **Sexual Harassment Policy** ("Policy") and, as such, the contract may be canceled, terminated, or suspended by DPW for violation of or noncompliance with said Policy. Said document is hereby incorporated herein by reference and made a part hereof as though fully set forth herein. This policy may be found at the Department of Public Works Website at <http://www.ct.gov/dpw>, under **Publications**.

All **technical** questions must be in writing (not phoned or emailed) and faxed to the **Architect/Engineer** with a **copy** to the **DPW Project Manager** listed below.

Architect/Engineer/ Consultant:	BL Companies	Fax No:	203-630-1406
Construction Administrator	CCSU – Sal Cintorino	Fax No:	860-832-0156
DPW Project Manager:	Scott Dunnack	Fax No:	860-713-7261

All **bid** questions should be addressed to the **Officer** listed below.

Associates Fiscal Administrative Officer:	Gail Blythe	Fax No:	(860) 713-7395
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Contract Time Allowed: 240 Calendar Days

Liquidated Damages: \$ 1,275.00 Per Calendar Day beyond Substantial Completion

\$ 895.00 Per Calendar Day beyond ninety (90) days after Substantial Completion

Prevailing Wage Rates: Prevailing wages are required on this project, in accordance with the schedule provided in the **bid documents**, pursuant to Connecticut General Statutes Section 31-53 (a) through (h), as amended.

Each contractor who is awarded a contract on or after October 1, 2002 shall be subject to provisions of the Connecticut General Statutes, Section 31-55a concerning **annual adjustments** to prevailing wages.

Wage Rates will be posted each **July 1<sup>st</sup>** on the **Department of Labor website**: [www.ctdol.state.ct.us](http://www.ctdol.state.ct.us) . Such prevailing wage adjustment shall not be considered a matter for any contract amendment.

The wages paid on an hourly basis to any mechanic, laborer or workman employed upon the work herein contracted to be done and the amount of payment or contribution paid or payable on behalf of each such employee to any employee welfare fund, as defined in subsection (h) of section 31-53 of the Connecticut General Statutes, shall be at a rate equal to the rate customary or prevailing for the same work in the same trade or occupation in the town in which such public works project is being constructed. Any contractor who is not obligated by agreement to make payment or contribution on behalf of such employees to any such employee welfare fund shall pay to each employee as part of his wages the amount of payment or contribution for his classification on each pay day.

Procurement  
Department of Public Works

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