Metropolitan Campus MRC Driveway

Project Number: C20207076

Cuyahoga Community College Metropolitan Campus 2900 Community College Ave. Cleveland, Ohio 44115



STANDARD REQUIREMENTS AND SPECIFICATIONS FOR CONSTRUCTION General Contracting

Bid DUE Date: September 14, 2021 by 2:00 p.m. EST

Sealed Hard Copy and must include One Electronic (jump drive) copy bids will be received by:

Judi Cooper Cuyahoga Community College District Office 700 Carnegie Avenue Cleveland, Ohio 44115

Mandatory Pre-Bid meeting On-site: September 7, 2021 at 9:00 a.m. EST Project Driveway Area just south of Recreation Center, just east of E30th St. – the ATTC Parking Lot #11 is closest location off Woodland Ave (east of E30th St.).

RFI's Deadline: September 10, 2021 by 12:00 p.m. EST

Prepared by: GPD Group

520 South Main Street, Suite 2531

Akron, Ohio 44311 Phone: (216) 518-5544 Fax: (216) 518-5545

Contact: Ken Bukowski, kbukowski@gpdgroup.com

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Cuyahoga Community College - Contractors Safety Guide

SPECIFICATIONS GROUP

FACILITY CONSTRUCTION SUBGROUP

Refer to contract construction drawing documents for sheet specifications.

END OF DOCUMENT

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Document 00 31 32 – Geotechnical Data (General Contracting Project)

DOCUMENT 003132 - GEOTECHNICAL DATA

1.1 GEOTECHNICAL DATA

- A. This Document with its referenced attachments is part of the Procurement and Contracting Requirements for Project. They provide Owner's information for Bidders' convenience and are intended to supplement rather than serve in lieu of Bidders' own investigations. They are made available for Bidders' convenience and information.
- B. Because subsurface conditions indicated by the soil borings are a sampling in relation to the entire construction area, and for other reasons, the Owner, the Architect, the Architect's consultants, and the firm reporting the subsurface conditions do not warranty the conditions below the depths of the borings or that the strata logged from the borings are necessarily typical of the entire site. Any party using the information described in the soil borings and geotechnical report shall accept full responsibility for its use.
- C. Geotechnical Engineering Report for Project, obtained by GPD Geotechnical Services, Inc., dated July 13, 2021, is available for viewing as appended to this Document.

D. Related Requirements:

1. Document 002113 "Instructions to Bidders" for the Bidder's responsibilities for examination of Project site and existing conditions.

END OF DOCUMENT 003132



GEOTECHNICAL ENGINEERING REPORT

CUYAHOGA COMMUNITY COLLEGE
METRO CAMPUS MRC DRIVEWAY
EAST 30TH STREET
CLEVELAND, OHIO

Prepared For:

Cuyahoga Community College

Delbert James Channels E-57295 ONAL

GPD Project No. 2021052.02 July 13, 2021

Delbert J. Channels, PE

Director of Geotechnical Services

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SECTION 1

1.0 Introduction

GPD Group is pleased to submit this Geotechnical Report for the aforementioned project. The purpose of this study was to obtain information on the subsurface conditions at the proposed project site and based on this information, to provide geotechnical recommendations regarding the design and construction of pavements for the replacement of concrete driveway at Metro Campus MRC Building. Eight (8) borings extending to depths of 5 feet each below the existing pavement and ground surface were drilled at the site. A Boring Location Plan and individual boring logs are attached.

1.1 Project Description

The project area consists of the concrete driveway and surrounding grass areas located on the southern side of the MRC building, which in general parallels E30th Street going down to the lower-level delivery entrance doors, near the abandoned pedestrian tunnel that was coming from the MCC building. The drive will be used primarily for use for box truck delivery trucks. The project entails removal of the existing concrete drive and reconfiguration. The existing retaining walls in the area are intended to remain unchanged. The new drive is also to be constructed of concrete. Cuts and fills are anticipated to be minimal.

An examination of Cleveland Historic Maps shows the area was once occupied with residential structures. An alleyway is shown bisecting each property. The Cuyahoga Community College Metro Campus was developed sometime in the mid-1960's.

1.2 Purpose and Scope

The purposes of this report were to investigate subsurface conditions of the proposed development to provide geotechnical engineering recommendations for earthwork and pavements. Specifically, the scope of work included the following:

- Conducting a field exploration program consisting of site reconnaissance and drilling sample borings at selected locations within the existing and proposed pavement locations to explore subsurface conditions and collect soil samples.
- Conducting geotechnical engineering laboratory test on sampled soils to assist with soil classifications and estimation of engineering properties.
- Develop geotechnical engineering recommendations for the design and construction of pavement sections and earthwork for site grading.

SECTION 2

2.0 Subsurface Exploration Program

The subsurface exploration consisted of drilling and sampling eight (8) borings at the site to depths of 5 feet each below existing grades. GPD personnel using a handheld GPS unit laid out the boring locations. The locations should be considered accurate only to the degree implied by the means and methods used to define them. The boring locations were cleared for existing utilities per an Ohio 811 call (OUPS).

The borings were drilled with a track-mounted Geoprobe 7822DT rotary drill rig using hollow-stem augers and an automatic hammer to advance the boreholes. Representative soil samples were obtained by split-barrel sampling procedure in general accordance with the appropriate ASTM standards. In the

split-barrel sampling procedure, the number of blows required to advance a standard 2-inch O.D. split-barrel sampler the last 12 inches of the typical total 18-inch penetration by means of a 140-pound hammer with a free fall of 30 inches, is the standard penetration resistance value (N-Value). This value is used to estimate the in-situ relative density of cohesion-less soils and the consistency of cohesive soils. The sampling depths and penetration distance, plus the standard penetration resistance values, are shown on the boring logs. The samples were sealed and returned to the laboratory for testing and classification.

The drill crew prepared field logs of each boring. These logs included visual classifications of the materials encountered during drilling as well as the driller's interpretation of the subsurface conditions between samples. Final boring logs included with this report represent an interpretation of the field logs and include modifications based on observations made by a Geotechnical Engineer and the results of laboratory testing.

2.1 Laboratory Testing

The samples were classified in the laboratory based on visual observation, texture, and plasticity. The descriptions of the soils indicated on the boring logs are in accordance with the enclosed General Notes and the Unified Soil Classification System. A brief description of this classification system is attached to this report.

The laboratory testing program consisted of performing the following tests:

❖ Natural water content tests (ASTM D-2216)

2.2 Subsurface Conditions

Concrete – Existing concrete pavements at the site ranged in thicknesses of 5.75 inches to 8 inches.

Topsoil – Surface topsoil depths of the existing lawn areas of the site were found to measure to depths of approximately 1 inch.

Fill – An existing fill was encountered at all the boring locations to depths of 3 to 5 feet below the site grades. The fills were found to consist primarily of sand soils with varying amounts of brick, concrete & cinders. The fills were generally damp and loose to dense in consistency.

Native Soils – Site soils consist of sands with varying levels of gravel. Soil consistencies across the boring locations were generally loose to medium dense and soil moistures that were damp. Refer to the attached boring logs for additional soil information.

2.3.1 Groundwater Conditions

The borings were monitored while drilling and immediately after completion for the presence and level of groundwater. Groundwater was not encountered in any of the boring depths. Fluctuations of the groundwater level can occur due to seasonal variations in the amount of rainfall, runoff, and other factors not evident at the time the borings were performed. The possibility of groundwater level fluctuations should be considered when developing the design and construction plans for the project.

SECTION 3

3.0 Engineering Recommendations

The following engineering recommendations are based on information provided to GPD Group regarding the design of the proposed project, the field and laboratory testing performed on the soil encountered at this

site, and other information discussed in this report. This report does not reflect variations that may occur between borings, across the site, or due to the modifying effects of weather. The nature and extent of such variations may not become evident until during or after construction. If variations appear, GPD should be immediately notified so that further evaluation and supplemental recommendations can be provided.

3.1 Geotechnical Considerations

Based on the information obtained during the course of this study, the following geotechnical considerations should be taken into account during the planning, design and construction phases of the project. These geotechnical considerations are provided as a summary of the primary issues we believe are associated with this site. This report must be read in its entirety for a full description of our geotechnical recommendations:

- The majority of the site subgrades encountered in the soil boring depths consisted of an existing sand fill. The fills were found to be loose to dense in consistency. Should any subgrades fail a proof-roll an undercut should occur to a stable subgrade under the direction of a Geotechnical Engineer or personnel under the direction of the Engineer, and backfilled with an approved material. If determined to be necessary, undercut depths should not surpass 18 inches. Should instability exist beyond a depth of 18 inches a layer of Tensar TX-1100 Geogrid should be placed along the base of the undercut and backfilled with 304 crushed limestone. Extensive undercutting is not anticipated, unless unsuitable basement backfill areas are encountered as described below.
- Historic imagery and maps show that the project area was once occupied by homes. Basement walls or rubble areas of demolished house structures might be encountered at planned subgrade. Any walls found to be withing areas of proposed concrete drive areas should be removed to a depth of 24 inches below finished subgrade and backfilled with an approved material. Planned subgrade areas consisting of basement backfill rubble should be evaluated by a Geotechnical Engineer or personnel under the direction of the Engineer. Areas determined to consist of major amounts of rubble should be undercut to a depth as determined by the Geotechnical Engineer, based on the conditions encountered at that time.
- Contingent upon proper site preparation and thorough evaluation of the pavement subgrades, it is our opinion that the proposed pavements can be supported by the site soils.

The following report sections provide detailed recommendations regarding the geotechnical considerations presented above. In the event changes in the project design occur, GPD Group must review this report to determine if modifications to our recommendations are warranted.

3.2 Site Preparation

All vegetation, topsoil, tree roots, organic-containing soils, and any soft or otherwise unsuitable materials should be removed from the structure and pavement limits. Based on our borings, we estimate stripping depths of topsoil around 1 inch across the soil boring locations.

Subsequent to site clearing and topsoil removal; proof-rolling with heavy construction equipment such as a loaded tandem axle dump truck (approximately 60,000-pound gross) is recommended to aid in locating unstable subgrade materials. Proof-rolling is also recommended in cut areas, and areas left near existing grade after rough grading is completed. Unstable materials located by proof rolling should be removed and replaced with suitable compacted fill material. Areas of very loose to loose sand should be densified with a smooth drum vibratory roller.

Areas of unsuitable soil identified during proof-rolling or subsequent construction operations will need to be stabilized. Based on our borings and our experience during construction of similar structures, subgrade stabilization may be required to facilitate construction. Alternatives for subgrade stabilization could include

the following:

Scarification and Recompaction - It may be feasible to scarify, dry, and recompact the exposed soils that are higher in moisture and/or are very loose in consistency. The success of this procedure would depend primarily upon favorable weather and sufficient time to dry the soils. Even with adequate time and weather, however, stable subgrades may not be achievable if the thickness of the very loose soil is greater than 1 to 1-1/2 feet. Removing sections to greater depths and replacing the material in layers may be necessary.

Crushed Stone - The use of crushed stone or gravel could be used to improve subgrade stability. The thickness and type of crushed stone will depend upon the conditions encountered and the location of the area to be improved. GPD's on-site Quality Control representative will provide this information as needed. Typical undercut depths would range from 1/2 foot to 1-1/2 feet below finished subgrade elevation. The use of high modulus geotextiles (i.e., engineering fabric or geogrid) could also be considered after underground work such as utility construction is completed. Equipment should not be operated above the fabric or geogrid until one full lift of crushed stone fill is placed above it. The maximum particle size of granular material placed over geotextile fabric or geogrid should not exceed 1-1/2 inches.

3.3 Fill Material

Any fill or backfill required within structure and pavement limits should be select material, as approved by a qualified geotechnical engineer. For all filling operations, the following should be observed:

- Prior to use, the approved fill material should be tested as outlined in ASTM D-698 to determine the
 maximum dry density and optimum moisture content for silty or cohesive soils, or ASTM D-4253
 and D-4254 for clean granular soils. For each change in borrow material, additional tests will be
 required.
- 2. For all fill or backfill used, the fill material should be placed on the approved subgrade in controlled lifts, with each lift compacted to a stable condition, and to a minimum of 98% maximum dry density per ASTM D-698 at a moisture content within 1.5% of optimum for cohesive or silty borrow. Controlled lifts of granular material should be compacted to 80% relative density per ASTM D-4254.
- 3. All filling operations should be observed by a qualified soils technician with field density tests made, to assure compaction to specification.

Proper moisture control of fine-grained silty soils is critical in attaining the required compaction. It should be noted that both in-situ soils and new fill composed of fine-grained soils are susceptible to disturbance by construction equipment traffic when wet. Thus, construction operations should be planned to prevent such disturbance and the resulting weakening of the subgrade soils. Such precautions would include, but not be limited to grading the site to prevent ponding of water, sealing the subgrade soils at the end of operations each day, and allowing wet subgrades to dry before operating heavy equipment on the soil.

3.4 Pavements

3.4.1 Rigid Concrete Pavement

Table 1 provides a standard concrete pavement section.

Table 1: Recommended Rigid Concrete Pavement Sections

RECOMMENDED THICKNESSES (INCHES)*				
PAVEMENT MATERIAL*	STANDARD PAVEMENT SECTION			
Concrete Pavement	6.0			
Graded Aggregate Base (Item 304: ODOT Approved)	6.0			

^{*} Portland cement concrete should conform to ODOT guidelines and be adequately reinforced per Project Requirements

The minimum concrete pavement design sections should conform to an allowable construction tolerance of plus or minus 0.25 inches. The concrete should be air-entrained (6.5% ± 1.5 %), be fiber reinforced, and have a minimum compressive strength of 4,000 psi after 28 days of laboratory curing per ASTM C-31.

Layout of saw-cut control joints should form square panels, and the depth of saw-cut joints should be approximately ¼ of the concrete slab thickness. Joints are to be spaced per project specifications. The joints should be sawed within six (6) hours of concrete placement or as soon as the concrete has developed sufficient strength to support workers and equipment. All joints, including sawed joints, shall be sealed as detailed in the project specifications.

SECTION 4

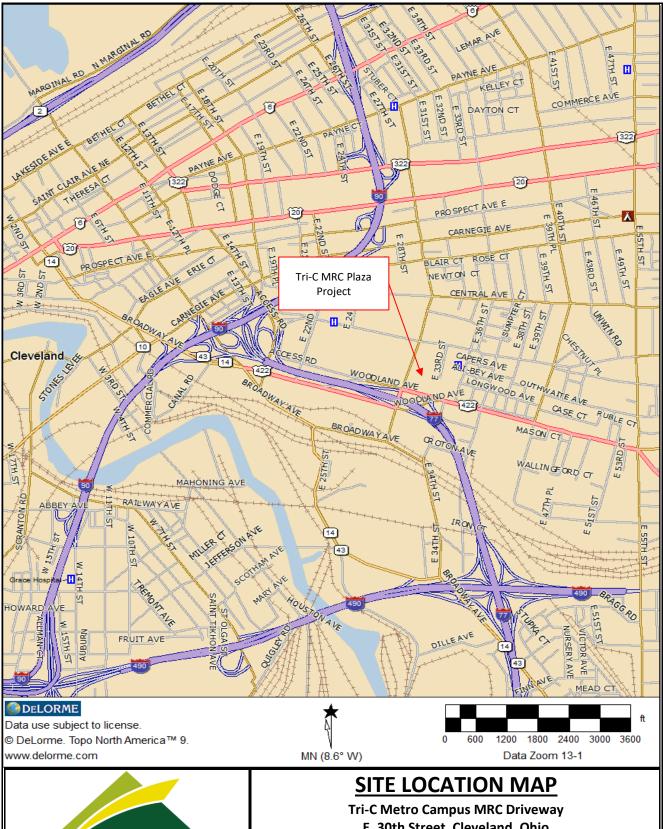
4.0 General Comments

GPD Group should be retained to review the final design plans and specifications so comments can be made regarding interpretation and implementation of our geotechnical recommendations in the design and specifications. Subsequent to stripping topsoil, GPD should also be retained to provide testing and observation during site preparation and fill placement operations as well as during pavement construction phases of the project.

The analysis and recommendations presented in this report are based upon the data obtained from the borings performed at the indicated locations and from other information discussed in this report. This report does not reflect variations that may occur between borings, across the site, or due to the modifying effects of weather or between borings and areas covered by the existing facility. The nature and extent of such variations may not become evident until during or after construction. If variations appear, GPD should be immediately notified so that further evaluation and supplemental recommendations can be provided.

The scope of services for this project does not include either specifically or by implication any environmental assessment of the site or identification of contaminated or hazardous materials or conditions. If the owner is concerned about the potential for such contamination, other studies should be undertaken.

This report has been prepared for the exclusive use of **Cuyahoga Community College** for specific application to the project discussed and has been prepared in accordance with generally accepted geotechnical engineering practices. No warranties, either express or implied, are intended or made. Site safety, excavation support, and dewatering requirements are the responsibility of others. In the event that changes in the nature, design, or location of the project as outlined in this report are planned, the conclusions and recommendations contained in this report shall not be considered valid unless GPD Group reviews the changes and either verifies or modifies the conclusions of this report in writing.

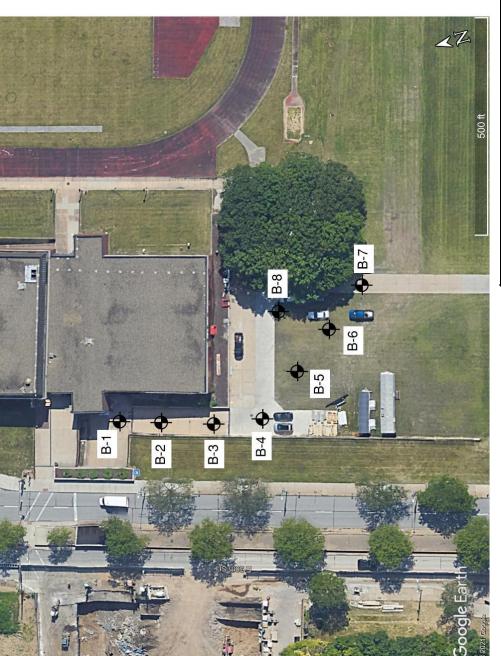




E. 30th Street, Cleveland, Ohio GPD Project Number: 2021052.02 Date: July 2021

LOCATION PLAN





Legend

Soil Boring: 💠

PROJECT:Tri-C Metro Campus MRC DrivewayPROJECT NUMBER:2021052.02DATE:7/8/2021

LOCATION: E. 30th Street, Cleveland, Ohio



520 South Main Street, Suite 2531 □ Akron, Ohio 44311 □ (330)572-2100

Boring Number: B-1 CLIENT Cuyahoga Community College PROJECT NAME Metro Campus MRC Driveway PROJECT NUMBER 2021052.02 PROJECT LOCATION E. 30th Street, Cleveland, Ohio DATE STARTED June 23, 2021 COMPLETED June 23, 2021 GROUND ELEVATION _____ HOLE SIZE 6 in **DRILLING CONTRACTOR** GPD Geotechnical Services, Inc. **GROUND WATER LEVELS:** DRILLING METHOD Hollow Stem Auger - 2 1/4" ID AT TIME OF DRILLING _--- None LOGGED BY Nick Burgess CHECKED BY Thomas Kratz AT END OF DRILLING _ --- None NOTES Drill Rig: Geoprobe 7822 FINES CONTENT (%) SAMPLE TYPE NUMBER POCKET PEN. (tsf) DRY UNIT WT. (pd) MOISTURE CONTENT (%) LIMITS GRAPHIC LOG RECOVERY (RQD) BLOW COUNTS (N VALUE) DEPTH (ft) PLASTICITY INDEX PLASTIC LIMIT LIQUID MATERIAL DESCRIPTION GENERALIZED SUBSURFACE PROFILE - GINT STD US LAB.GDT - 7/9/21 11:38 - F/GPD GILCHRIST/JOBS/2021/GPD/DRILLING/2021052,02 - TRI C METRO - MRC DRIVEWAY/B1 TO B8.GPJ 5.75" CONCRETE 6" SAND & GRAVEL. Damp, medium dense, dark brown, fine to medium SAND. (Fill) 10-8-9-7 SS 92 7 (17)Damp, loose, brown, fine to medium SAND, trace of gravel. SS 5-3-2-3 6 (5)

Boring Number: B-2 CLIENT Cuyahoga Community College PROJECT NAME Metro Campus MRC Driveway PROJECT NUMBER 2021052.02 PROJECT LOCATION E. 30th Street, Cleveland, Ohio DATE STARTED June 23, 2021 COMPLETED June 23, 2021 GROUND ELEVATION _____ HOLE SIZE 6 in **DRILLING CONTRACTOR** GPD Geotechnical Services, Inc. **GROUND WATER LEVELS:** DRILLING METHOD Hollow Stem Auger - 2 1/4" ID AT TIME OF DRILLING _-- None LOGGED BY Nick Burgess CHECKED BY Thomas Kratz AT END OF DRILLING _ --- None NOTES Drill Rig: Geoprobe 7822 FINES CONTENT (%) SAMPLE TYPE NUMBER POCKET PEN. (tsf) DRY UNIT WT. (pcf) MOISTURE CONTENT (%) LIMITS GRAPHIC LOG BLOW COUNTS (N VALUE) RECOVERY (RQD) DEPTH (ft) PLASTICITY PLASTIC LIMIT LIQUID MATERIAL DESCRIPTION INDEX 8.25" CONCRETE 5" SAND & GRAVEL Damp, medium dense, brown & black, fine to coarse SAND, trace of gravel & brick. (Fill) SS 7-8-10-10 96 12 (18)Damp, medium dense, brown & black, fine to coarse SAND, minor sandstone fragments, trace of ciders & brick. (Fill) SS 14-17-18-7 100 11 (35)

Boring Number: B-3 CLIENT Cuyahoga Community College PROJECT NAME Metro Campus MRC Driveway PROJECT NUMBER 2021052.02 PROJECT LOCATION E. 30th Street, Cleveland, Ohio DATE STARTED June 23, 2021 COMPLETED June 23, 2021 GROUND ELEVATION _____ HOLE SIZE 6 in **DRILLING CONTRACTOR** GPD Geotechnical Services, Inc. **GROUND WATER LEVELS:** DRILLING METHOD Hollow Stem Auger - 2 1/4" ID AT TIME OF DRILLING _--- None LOGGED BY Nick Burgess CHECKED BY Thomas Kratz AT END OF DRILLING _ --- None NOTES Drill Rig: Geoprobe 7822 FINES CONTENT (%) SAMPLE TYPE NUMBER POCKET PEN. (tsf) DRY UNIT WT. (pd) MOISTURE CONTENT (%) LIMITS GRAPHIC LOG RECOVERY (RQD) BLOW COUNTS (N VALUE) DEPTH (ft) PLASTICITY INDEX PLASTIC LIMIT LIQUID LIMIT MATERIAL DESCRIPTION 7.75" CONCRETE Damp, medium dense, brown & black, fine to coarse SAND, minor brick, trace of gravel & cinders. (Fill) SS 9-10-12-16 96 12 (22)Damp, medium dense, brown & black, fine to coarse SAND, trace of gravel. (Fill) SS 16-12-12-9 75 11 (24)

Boring Number: B-4 CLIENT Cuyahoga Community College PROJECT NAME Metro Campus MRC Driveway PROJECT NUMBER 2021052.02 PROJECT LOCATION E. 30th Street, Cleveland, Ohio DATE STARTED June 23, 2021 COMPLETED June 23, 2021 GROUND ELEVATION _____ HOLE SIZE 6 in **DRILLING CONTRACTOR** GPD Geotechnical Services, Inc. **GROUND WATER LEVELS:** DRILLING METHOD Hollow Stem Auger - 2 1/4" ID AT TIME OF DRILLING _-- None LOGGED BY Nick Burgess CHECKED BY Thomas Kratz AT END OF DRILLING _ --- None NOTES Drill Rig: Geoprobe 7822 FINES CONTENT (%) SAMPLE TYPE NUMBER POCKET PEN. (tsf) DRY UNIT WT. (pd) MOISTURE CONTENT (%) LIMITS GRAPHIC LOG RECOVERY (RQD) BLOW COUNTS (N VALUE) DEPTH (ft) PLASTICITY INDEX PLASTIC LIMIT LIQUID LIMIT MATERIAL DESCRIPTION 6.75" CONCRETE Damp, medium dense, brown & black, fine to coarse SAND, trace of gravel. (Fill) 9-7-8-7 SS 96 13 (15)Damp, medium dense, brown, fine to coarse SAND, minor sandstone fragments. (Possible fill) SS 4-8-5-4 33 11 (13)

Boring Number: B-5 CLIENT Cuyahoga Community College PROJECT NAME Metro Campus MRC Driveway **PROJECT NUMBER** 2021052.02 PROJECT LOCATION E. 30th Street, Cleveland, Ohio DATE STARTED June 23, 2021 COMPLETED June 23, 2021 **GROUND ELEVATION** HOLE SIZE 6 in DRILLING CONTRACTOR GPD Geotechnical Services, Inc. **GROUND WATER LEVELS:** DRILLING METHOD Hollow Stem Auger - 2 1/4" ID AT TIME OF DRILLING _--- None LOGGED BY Nick Burgess CHECKED BY Thomas Kratz AT END OF DRILLING _ --- None NOTES Drill Rig: Geoprobe 7822 FINES CONTENT (%) SAMPLE TYPE NUMBER DRY UNIT WT. (pd) MOISTURE CONTENT (%) POCKET PEN. (tsf) LIMITS BLOW COUNTS (N VALUE) GRAPHIC LOG RECOVERY (RQD) DEPTH (ft) PLASTICITY INDEX PLASTIC LIMIT LIQUID MATERIAL DESCRIPTION 1" TOPSOIL Damp, medium dense, brown & black SAND, minor concrete & brick. (Fill) SS 10-15-10-6 96 13 (25)Damp, loose, brown, fine to medium SAND, trace of gravel & silt. SS 2-2-2-2 100 7 (4)

Boring Number: B-6 CLIENT Cuyahoga Community College PROJECT NAME Metro Campus MRC Driveway PROJECT NUMBER 2021052.02 PROJECT LOCATION E. 30th Street, Cleveland, Ohio DATE STARTED June 23, 2021 COMPLETED June 23, 2021 GROUND ELEVATION _____ HOLE SIZE 6 in DRILLING CONTRACTOR GPD Geotechnical Services, Inc. **GROUND WATER LEVELS:** DRILLING METHOD Hollow Stem Auger - 2 1/4" ID AT TIME OF DRILLING _--- None LOGGED BY Nick Burgess CHECKED BY Thomas Kratz AT END OF DRILLING _ --- None NOTES Drill Rig: Geoprobe 7822 FINES CONTENT (%) SAMPLE TYPE NUMBER DRY UNIT WT. (pd) MOISTURE CONTENT (%) POCKET PEN. (tsf) LIMITS BLOW COUNTS (N VALUE) GRAPHIC LOG RECOVERY (RQD) DEPTH (ft) PLASTICITY PLASTIC LIMIT LIQUID LIMIT MATERIAL DESCRIPTION INDEX 1" TOPSOIL Damp, medium dense, brown, fine to coarse SAND, trace of gravel, cinders & brick. (Fill) 3-7-8-7 SS 100 9 (15)Damp, dense, brown, fine to coarse SAND, some brick. (Fill) 10-19-23-SS 96 35 11 (42)

Boring Number: B-7 CLIENT Cuyahoga Community College PROJECT NAME Metro Campus MRC Driveway PROJECT NUMBER 2021052.02 PROJECT LOCATION E. 30th Street, Cleveland, Ohio DATE STARTED June 23, 2021 COMPLETED June 23, 2021 GROUND ELEVATION _____ HOLE SIZE 6 in **DRILLING CONTRACTOR** GPD Geotechnical Services, Inc. **GROUND WATER LEVELS:** DRILLING METHOD Hollow Stem Auger - 2 1/4" ID AT TIME OF DRILLING _-- None LOGGED BY Nick Burgess CHECKED BY Thomas Kratz AT END OF DRILLING _ --- None NOTES Drill Rig: Geoprobe 7822 FINES CONTENT (%) SAMPLE TYPE NUMBER POCKET PEN. (tsf) DRY UNIT WT. (pd) MOISTURE CONTENT (%) LIMITS GRAPHIC LOG RECOVERY (RQD) BLOW COUNTS (N VALUE) DEPTH (ft) PLASTICITY INDEX PLASTIC LIMIT LIQUID LIMIT MATERIAL DESCRIPTION 8" CONCRETE Damp to moist, loose, brown & black, fine to coarse SAND, minor silt, trace of gravel. (Fill) SS 3-4-4-3 88 9 (8) Damp to moist, medium dense, brown & black, fine to coarse SAND, some brick. (Fill) SS 5-4-6-6 13 (10)

Boring Number: B-8 CLIENT Cuyahoga Community College PROJECT NAME Metro Campus MRC Driveway PROJECT NUMBER 2021052.02 PROJECT LOCATION E. 30th Street, Cleveland, Ohio DATE STARTED June 23, 2021 _____ COMPLETED _June 23, 2021 GROUND ELEVATION HOLE SIZE 6 in DRILLING CONTRACTOR GPD Geotechnical Services, Inc. **GROUND WATER LEVELS:** DRILLING METHOD Hollow Stem Auger - 2 1/4" ID AT TIME OF DRILLING _--- None LOGGED BY Nick Burgess CHECKED BY Thomas Kratz AT END OF DRILLING _ --- None NOTES Drill Rig: Geoprobe 7822 FINES CONTENT (%) SAMPLE TYPE NUMBER POCKET PEN. (tsf) DRY UNIT WT. (pd) MOISTURE CONTENT (%) LIMITS GRAPHIC LOG BLOW COUNTS (N VALUE) RECOVERY (RQD) DEPTH (ft) PLASTICITY PLASTIC LIMIT LIQUID MATERIAL DESCRIPTION INDEX 1" TOPSOIL Damp to moist, medium dense, dark brown, fine to coarse SAND, minor gravel, trace of brick. (Fill) 5-6-6-6 SS 92 10 (12)Damp, loose, brown & black, fine to coarse SAND, minor gravel, trace of cinders. (Fill) SS 7-3-3-3 100 11



SOIL BORING B-1



SOIL BORING B-2 pic pg 1.xlsx



SOIL BORING B-3



SOIL BORING B-4 pic pg 2.xlsx



SOIL BORING B-5



SOIL BORING B-6 pic pg 3.xlsx



SOIL BORING B-7



SOIL BORING B-8 pic pg 4.xlsx

GENERAL NOTES

SAMPLE IDENTIFICATION

The Unified Soil Classification System (USCS), AASHTO 1988 and ASTM designations D2487 and D-2488 are used to identify the encountered materials unless otherwise noted. Coarse-grained soils are defined as having more than 50% of their dry weight retained on a #200 sieve (0.075mm); they are described as: boulders, cobbles, gravel or sand. Fine-grained soils have less than 50% of their dry weight retained on a #200 sieve; they are defined as silts or clay depending on their Atterberg Limit attributes. Major constituents may be added as modifiers and minor constituents may be added according to the relative proportions based on grain size.

DRILLING AND SAMPLING SYMBOLS

SFA: Solid Flight Auger - typically 4" diameter flights,

except where noted.

HSA: Hollow Stem Auger - typically 31/4" or 41/4 | D.

openings, except where noted. M.R.: Mud Rotary - Uses a rotary head with Bentonite

or Polymer Slurry

R.C.: Diamond Bit Core Sampler

H.A.: Hand Auger

P.A.: Power Auger - Handheld motorized auger

SOIL PROPERTY SYMBOLS

N: Standard "N" penetration: Blows per foot of a 140 pound hammer falling 30 inches on a 2-inch O.D. Split-Spoon.

noted.

BS: Bulk Sample

PM: Pressuremeter

Readings

N₆₀: A "N" penetration value corrected to an equivalent 60% hammer energy transfer efficiency (ETR)

Q... Unconfined compressive strength, TSF

Q. Pocket penetrometer value, unconfined compressive strength, TSF

w%: Moisture/water content, %

LL: Liquid Limit, %

PL: Plastic Limit, %

PI: Plasticity Index = (LL-PL),%

DD: Dry unit weight, pcf

▼ ▽ ▼ Apparent groundwater level at time noted

RELATIVE DENSITY OF COARSE-GRAINED SOILS **ANGULARITY OF COARSE-GRAINED PARTICLES**

Relative Density	N - Blows/foot	<u>Description</u>	<u>Criteria</u>
Very Loose	0 - 4	Angular:	Particles have sharp edges and relatively plane sides with unpolished surfaces
Loose Medium Dense	4 - 10 10 - 30	Subangular:	Particles are similar to angular description, but have rounded edges
Dense Very Dense	30 - 50 50 - 80	Subrounded:	Particles have nearly plane sides, but have well-rounded corners and edges
Extremely Dense	80+	Rounded:	Particles have smoothly curved sides and no edges

GRAIN-SIZE TERMINOLOGY

PARTICLE SHAPE

Component	Size Range	<u>Description</u>	Criteria
Boulders:	Over 300 mm (>12 in.)	Flat:	Particles with width/thickness ratio > 3
Cobbles:	75 mm to 300 mm (3 in. to 12 in.)	Elongated:	Particles with length/width ratio > 3
Coarse-Grained Gravel:	19 mm to 75 mm (¾ in. to 3 in.)	Flat & Elongated:	Particles meet criteria for both flat and
Fine-Grained Gravel:	4.75 mm to 19 mm (No.4 to 3/4 in.)		elongated
Coarse-Grained Sand:	2 mm to 4.75 mm (No.10 to No.4)	DE: 4711/E	
Medium-Grained Sand:	0.42 mm to 2 mm (No.40 to No.10)	<u>RELATIVE I</u>	PROPORTIONS OF FINES

Fine-Grained Sand: 0.075 mm to 0.42 mm (No. 200 to No.40)

Silt: 0.005 mm to 0.075 mm

Clay: <0.005 mm

Descriptive Term % Dry Weight Trace: < 5%

With: 5% to 12% Modifier: >12%

SS: Split-Spoon - 1 3/8" I.D., 2" O.D., except where

ST: Shelby Tube - 3" O.D., except where noted.

CPT-U: Cone Penetrometer Testing with Pore-Pressure

GENERAL NOTES (Continued)

CONSISTENCY OF FINE-GRAINED SOILS MOISTURE CONDITION DESCRIPTION

Q _U - TSF	N - Blows/foot	Consistency	Description Criteria
0 - 0.25 0.25 - 0.50 0.50 - 1.00	0 - 2 2 - 4 4 - 8	Very Soft Soft Firm (Medium Stiff)	Dry: Absence of moisture, dusty, dry to the touch Moist: Damp but no visible water Wet: Visible free water, usually soil is below water table
1.00 - 2.00	8 - 15	Stiff	RELATIVE PROPORTIONS OF SAND AND GRAVEL
2.00 - 4.00	15 - 30	Very Stiff	Descriptive Term % Dry Weight
4.00 - 8.00	30 - 50	Hard	Trace: < 15%
8.00+	50+	Very Hard	With: 15% to 30%
			Modifier: >30%

STRUCTURE DESCRIPTION

Description	Criteria	Description	Criteria
Stratified:	Alternating layers of varying material or color with	Blocky:	Cohesive soil that can be broken down into small
	layers at least 1/4-inch (6 mm) thick		angular lumps which resist further breakdown
Laminated:	Alternating layers of varying material or color with	Lensed:	Inclusion of small pockets of different soils
	layers less than 1/4-inch (6 mm) thick	Layer:	Inclusion greater than 3 inches thick (75 mm)
Fissured:	Breaks along definite planes of fracture with little	Seam:	Inclusion 1/8-inch to 3 inches (3 to 75 mm) thick
	resistance to fracturing		extending through the sample
Slickensided:	Fracture planes appear polished or glossy,	Parting:	Inclusion less than 1/8-inch (3 mm) thick
	sometimes striated		

SCALE OF RELATIVE ROCK HARDNESS ROCK BEDDING THICKNESSES

Q _U - TSF	Consistency	Description	Criteria
-	Futus mask . Ooft	Very Thick Bedded	Greater than 3-foot (>1.0 m)
2.5 - 10	Extremely Soft	Thick Bedded	1-foot to 3-foot (0.3 m to 1.0 m)
10 - 50	Very Soft	Medium Bedded	4-inch to 1-foot (0.1 m to 0.3 m)
50 - 250	Soft Madicipal Land	Thin Bedded	11/4-inch to 4-inch (30 mm to 100 mm)
250 - 525	Medium Hard	Very Thin Bedded	1/2-inch to 11/4-inch (10 mm to 30 mm)
525 - 1,050	Moderately Hard	Thickly Laminated	1/8-inch to ½-inch (3 mm to 10 mm)
1,050 - 2,600 >2,600	Hard Very Hard	Thinly Laminated	1/8-inch or less "paper thin" (<3 mm)

ROCK VOIDS

Voids	Void Diameter	(Typically Sedi	
Pit	<6 mm (<0.25 in)	<u>Component</u>	Size Range
	6 mm to 50 mm (0.25 in to 2 in)	Very Coarse Grained	>4.76 mm
U	50 mm to 600 mm (2 in to 24 in)	Coarse Grained	2.0 mm - 4.76 mm
-	>600 mm (>24 in)	Medium Grained	0.42 mm - 2.0 mm
Cave	2000 HIIII (224 III)	Fine Grained	0.075 mm - 0.42 mm
		Very Fine Grained	<0.075 mm

ROCK QUALITY DESCRIPTION

DEGREE OF WEATHERING

GRAIN-SIZED TERMINOLOGY

Rock Mass Description Excellent Good Fair	RQD Value 90 -100 75 - 90 50 - 75	Slightly Weathered:	Rock generally fresh, joints stained and discoloration extends into rock up to 25 mm (1 in), open joints may contain clay, core rings under hammer impact.
Poor Very Poor	25 -50 Less than 25	Weathered:	Rock mass is decomposed 50% or less, significant portions of the rock show discoloration and weathering effects, cores cannot be broken by hand or scraped by knife.
		Highly Weathered:	Rock mass is more than 50% decomposed, complete discoloration of rock fabric, core may be extremely broken and gives clunk sound when struck by hammer, may be shaved with a knife.

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Unified Soil Classification System

Major Divisions Letter			Letter	Symbol	Description	
eve	rse 11 the	Clean	GW		Well-graded gravels and gravel-sand mixtures, little or no fines.	
Coarse-grained Soils More than ½ retained on the No. 200 Sieve	Gravels More than ½ coarse fraction retained on the No. 4 sieve		GP	ؿؙ؞۫ڒ ڮٷؽ	Poorly-graded gravels and gravel-sand mixtures, little or no fines.	
Soils he No.	Gravels re than ½ con retained No. 4 siev	Gravels	GM		Silty gravels, gravel-sand-silt mixtures.	
ained d on t	Mo fract	With Fines	GC		Clayey gravels, gravel-sand-clay mixtures.	
Coarse-grained Soils ½ retained on the NG	ssing 200	Clean Sands	SW		Well-graded sands and gravelly sands, little or no fines.	
Coa in ½ r	Sands More than ½ passing through the No. 200 sieve	Cican Sands	SP		Poorly-graded sands and gravelly sands, little or no fines.	
re tha	Sa re thar ough th	Sands With	SM		Silty sands, sand-silt mixtures	
	Mo	Fines	SC		Clayey sands, sandy-clay mixtures.	
gh the	Silts an	d Clavs	ML		Inorganic silts, very fine sands, rock flour, silty or clayey fine sands.	
soils throug	Silts and Clays Liquid Limit less than 50%		CL		Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.	
ined S ssing t			OL		Organic clays of medium to high plasticity.	
Fine-grained Soils More than ½ passing through the No. 200 Sieve	Silts an	d Clavs			Inorganic silts, micaceous or diatomaceous fines sands or silts, elastic silts.	
Fine than	Liquid Limit greater than 50%		СН	Inorganic clays of high plasticity, fat clays.		
Mor			ОН		Organic clays of medium to high plasticity.	
High	hly Organic	Soils	PT		Peat, muck, and other highly organic soils.	
			Consi	stency Cl	assification	
	Granular	Soils			Cohesive Soils	
Descriptio	n - Blows	Per Foot (Cor	rected)		Description - Blows Per Foot (Corrected)	
MCS SPT Very loose <5 <4				Very	$ \frac{MCS}{<3} \qquad \frac{SPT}{<2} $ soft	
Loose	5 - 1	•		Soft	3 - 5 2 - 4	
Medium d	lense 16 - 4	10 11 - 3	30	Firm	6 - 10 5 - 8	
Dense	41 - 6	55 31 - :	50	Stiff	11 - 20 9 - 15	
Very dens	e >65	>5()	Very	Stiff 21 - 40 16 - 30	
				Hard	>40 >30	
MCS =	Modified Cal	lifornia Samp	leı	S	PT = Standard Penetration Test Sampler	

Document 00 41 13 - Bid Form (General Contracting Project)

Sealed Hard Copy and must include One Electronic (jump drive) Copy bids will be received by the Cuyahoga Community College District at 700 Carnegie Avenue, Cleveland, Ohio, 44115 for:

Project: Metropolitan Campus - MRC Driveway Project Number: C20207076

at

Cuyahoga Community College 2900 Community College Ave. Cleveland, Ohio 44125

for the

Cuyahoga Community College District

The time for Substantial Completion of all Work is 45 consecutive days from the Notice to Proceed.

Having read and examined the proposed Contract Documents prepared by the Architect/Engineer for the above-referenced Project and the following Addenda:

Project and the ic	nowing Addenda:			
	Addendum Number	Date Received		
	Bidder proposes to perform all Work for the a ne following sum(s):	pplicable Contract in accorda	ance with the pr	oposed Contract
Bid Package 1)1 – GENERAL CONTRACT			
	(Include Allowance amount(s) in the respecti determining the final Allowance amount(s) d		w schedule of v	alue unit prices
<u>Item</u>	Description		Amo	ount
Allowance A-1	Field Measured Repair Quantities, As Dire	cted by Owner	\$15	,000
	VALUE UNIT PRICES TO BE USED FOR .			
discovered, adjus	nining the adjustment to the Final Payment of ted alternate bid items, or owner requested we ite, labor, installation costs, incidentals, and of ices.)	ork items. The Contractor's F	ee and Costs fo	or unloading and
Item	Description		Unit Price	Unit of / Measure
	-			
Unit Price U-1	Proposed full depth macrofiber concrete paggregate base.	evement including	\$	_ / SF
Unit Price U-2	Proposed full depth microfiber concrete wa	alk including aggregate base.	\$	_ / SF

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Unit Price U-3	Field Measured base repair (remove and replace) quantities, as directed by owner. Aggregate base per plan specifications.	\$	/ CY
BASE BID (Inclu	ading Allowance A-1 above):		
ALI	L LABOR AND MATERIALS, for the sum of		\$
Sun	n in words:		
		and	/100 dollars.
If A	rt amount) Iternate is accepted, ADD TO / DEDUCT FROM Base Bid:		\$
Sum	n in words:	and	/100 dollars.
	ernate Bid Item #2 – Remove and Replace trench drain in lieu of ice below and insert amount)	of reconstruction	on (Circle appropriate
If A	lternate is accepted, ADD TO / DEDUCT FROM Base Bid:		\$
Sun	n in words:	and	/100 dollars
	remainder of page left blank intentionally		

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BIDDER AFFIRMATION AND DISCLOSURE

Bidder acknowledges that by signing the Bid Form on the Bidder Signature and Information page, that it affirms, understands, and will abide by the requirements of Executive Order 2019-12D. If awarded a Contract, the Bidder will become the Contractor and affirms that both the Contractor and its Subcontractors shall perform no services requested under this Contract outside of the United States.

The Bidder shall provide the locations where services under this Contract will be performed in the spaces provided below or by attachment. Failure to provide this information as part of its Bid may cause the Bidder to be deemed non-responsive and no further consideration will be given to its Bid. If the Bidder will not be using Subcontractors, indicate "Not Applicable" in the appropriate spaces.

Principal business location of Contrac	ctor:
Address	City, State, Zip
Location where services will be perfo	ormed by Contractor:
Address	City, State, Zip
Locations where services will be perf	formed by Subcontractors, if known at time of Bid Opening:
Address	City, State, Zip
Address	City, State, Zip
Address	City, State, Zip
Location where state data will be stor	ed, accessed, tested, maintained, or backed-up, by Contractor:
Address	City, State, Zip
Locations where state data will be sto time of Bid Opening:	red, accessed, tested, maintained, or backed-up by Subcontractors, if known a
Address	City, State, Zip
Address	City, State, Zip
Address	City, State, Zip

BIDDER'S CERTIFICATIONS

The Bidder hereby acknowledges that the following representations in this Bid are material and not mere recitals:

- 1. The Bidder has read and understands the proposed Contract Documents and agrees to comply with all requirements of the proposed Contract Documents, regardless of whether the Bidder has actual knowledge of the requirements and regardless of any statement or omission made by the Bidder, which might indicate a contrary intention.
- 2. The Bidder represents that the Bid is based upon the Basis of Design and Acceptable Components specified by the proposed Contract Documents.
- 3. The Bidder has visited the Site, become familiar with local conditions, and has correlated personal observations about the requirements of the proposed Contract Documents. The Bidder has no outstanding questions regarding the interpretation or clarification of the proposed Contract Documents.
- 4. The Bidder understands that the execution of the Project will require sequential, coordinated, and interrelated operations, which may involve interference, disruption, hindrance, or delay in the progress of the Bidder's Work. The Bidder agrees that the Contract Sum, as amended from time to time, shall cover all amounts due from the State resulting from interference, disruption, hindrance, or delay that is not caused by the State or its agents and employees. The Bidder agrees that any such interference, disruption, hindrance, or delay is within the contemplation of the Bidder and the State and that the Contractor's sole remedy from the State for any such interference, disruption, hindrance, or delay shall be an extension of time in accordance with the proposed Contract Documents.
- 5. During the performance of the Contract, the Bidder agrees to comply with Ohio Administrative Code ("OAC") Chapters 123:2-3 through 123:2-9 and agrees to incorporate the monthly reporting provisions of OAC Section 123:2-9-01 into all subcontracts on the Project, regardless of tier. The Bidder understands the State's Equal Opportunity Coordinator or the Contracting Authority may conduct pre-award and post-award compliance reviews to determine if the Bidder maintains nondiscriminatory employment practices, maintains an affirmative action program, and is exerting good faith efforts to accomplish the goals of the affirmative action program. For a full statement of the rules regarding Equal Employment Opportunity in the Construction Industry, see OAC Chapters 123:2-1 through 123:2-9.
- 6. The Bidder and each Person signing on behalf of the Bidder certifies, and in the case of a Bid by a joint venture each member thereof certifies as to such member's entity, under penalty of perjury, that to the best of the undersigned's knowledge and belief: (a) the Base Bid, any Unit Prices, and any Alternate bid in the Bid have been arrived at independently without collusion, consultation, communication or agreement, for the purpose of restricting competition as to any matter relating to such Base Bid, Unit Prices or Alternate bid with any other Bidder; (b) unless otherwise required by law, the Base Bid, any Unit Prices and any Alternate bid in the Bid have not been knowingly disclosed by the Bidder and shall not knowingly be disclosed by the Bidder prior to the bid opening, directly or indirectly, to any other Bidder who would have any interest in the Base Bid, Unit Prices or Alternate bid; (c) no attempt has been made or shall be made by the Bidder to induce any other Person to submit or not to submit a Bid for the purpose of restricting competition.
- 7. The Bidder understands that the Contract is subject to all the provisions, duties, obligations, remedies and penalties of Ohio Revised Code Chapter 4115 and that the Bidder shall pay any wage increase in the locality during the term of the Contract.
- 8. The Bidder shall execute the Agreement with the Contracting Authority, if a Contract is awarded on the basis of this Bid, and if the Bidder does not execute the Agreement for any reason, other than as authorized by law, the Bidder and the Bidder's Surety are liable to the State as provided in **Article 5** of the Instructions to Bidders.
- **9.** The Bidder certifies that the upon the award of a Contract, as the Contractor it shall make a good faith effort to ensure that all of the Contractor's employees, while working on the Site, shall not purchase, transfer, use, or possess illegal drugs or alcohol or abuse prescription drugs in any way.
- 10. The Bidder acknowledges that it read all of the **Instructions to Bidders**, and in particular, **Section 2.10** Submittals With Bid Form, and by submitting its Bid certifies that it has read the Instructions to Bidders and it understands and agrees to the terms and conditions stated in them.

- 11. The Bidder agrees to furnish any information requested by the Contracting Authority or Architect/Engineer to evaluate the responsibility of the Bidder.
- 12. The Bidder agrees to furnish the submittals required by **Section 6.1** of the **Instructions to Bidders** for execution of the Agreement within 10 days of the date of the Notice of Intent to Award.
- 13. When the Bidder is a corporation, partnership or sole proprietorship, an officer, partner or principal of the Bidder, as applicable, shall print or type the legal name of the Bidder on the line provided, and **sign the Bid Form**.
- When the Bidder is a joint venture, an officer, partner or principal, as applicable, of each member of the joint venture shall print or type the legal name of the applicable member on the line provided, and **sign the Bid Form**.
- 15. Bidder acknowledges that by signing the Bid Form on the following Bidder Signature and Information page that it is signing the actual Bid and when submitted as a part of its bid package, shall serve as the Bidder's authorization for the further consideration and activity in the bidding and contract process.
- **16.** All signatures must be original.

-- remainder of page left blank intentionally --

BIDDER SIGNATURE AND INFORMATION

Bidder's Authorized <u>Signature</u> :	
Please print or type the following:	
Name of Bidder's Authorized Signatory	
Title:	
Company Name:	
Mailing Address:	
Telephone Number:	
Facsimile Number:	
E-Mail Address:	
Where Incorporated:	
Federal Tax Identification Number:	
Date enrolled in an OBWC-approved DFSP (month/date/year):	://
Contact person for Contract processing:	
President's or Chief Executive Officer's Name / Title:	
JOINT VENTURE ADDITIONAL BID Joint Venture Bidder's Authorized Signature:	
Please print or type the following:	
Name of Joint Venture Bidder's Authorized Signatory	
Title:	
Company Name:	
Mailing Address:	
Telephone Number:	
Facsimile Number:	
E-Mail Address:	
Where Incorporated:	
Federal Tax Identification Number:	
Date enrolled in an OBWC-approved DFSP (month/date/year):	://
Contact person for Contract processing:	
President's or Chief Executive Officer's Name / Title:	

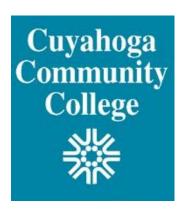
END OF DOCUMENT

Delinquent Personal Property Tax Affidavit Document 00 62 46 State of Ohio Ohio Facilities Construction Commission

DELINQUENT PERSONAL PROPERTY TAX AFFIDAVIT (Section 5719.042, ORC)

State of Ohio } SS.
SS. SS.
The undersigned individual, or duly authorized representative of the identified company, having been first duly cautioned and sworn, alleges and states that said individual or company has been advised that he has or it has received a Notice of Intent to Award a Contract(s) let by competitive bid by Cuyahoga Community College District , on behalf of the State of Ohio under Section 3318.10, ORC, but prior to the execution of said Contract(s), and pursuant to Section 5719.042, ORC, provides this statement to the Treasurer under oath that he or it was not charged, on the date the Bid(s) was submitted, with any delinquent personal property taxes on the general tax list of personal property of County, Ohio, or that he or it is so charged in the following amount:
Delinquent Tax:
Penalties and interest due and unpaid: Total (if none, indicate "NONE")
A copy of this sworn statement will be attached to and incorporated into the Contract(s) for this Project which shall enable payments to be made under said Contract(s).
By:,,,
Company:
Project:
Sworn to and executed before me this day of ,,
Notary Public My commission expires:

DPT-01 OSFC



Contractors Safety Guide

MUST READ & SIGN

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All contractors and their employees performing work activities in facilities or on properties of Cuyahoga Community College (Tri-C) shall be issued a copy of this guide as part of the pre-bid material for bid and capital projects and prior to beginning work on any campus or facility. If you are using a cell phone, please inform the Police Department of the city you are in to patch you through to the Tri-C Police dispatching center so they can properly guide emergency crews to the correct location(s)

Important Phone Numbers:

Campus Emergency	4911
Campus Police Non-Emergency	216-987-4325
EHS	216-987-3557
West Plant Manager	216-987-5346
East Plant Manager	216-987-2347
Metro Plant Manager	216-987-4508
Westshore Plant Manager	216-987-5807
CCW Plant Manager	216-987-5856
CCE Plant Manager	216-987-2931
Brunswick University Center	216-987-2930
STJC/HMC/TIC	216-987-4718

Accidents

Please refer to the Tri-C Office of Environmental Health & Safety (EHS) web site for the following:

- <u>Procedures for Injuries/Illnesses at Work</u>
 If you become injured at work, injured (ill) employees shall follow these procedures
- Report Accidents/Incidents on Campus by downloading Accident ReportForm Employee Rights and Responsibilities

Asbestos

Many Tri-C buildings have asbestos or material that has not been tested and is considered presumed asbestos-containing material (PACM). These locations will be made known to the Project Manager upon request. The Project Manager will make known the asbestos hazards in the work area before work is initiated.

All renovations or demolitions have to be approved by the Project Manager and Environmental Health & Safety prior to any project start up. All documentation (i.e. testing, clearances, etc.) must be provided to the Project Manager.

Only trained and certified contract workers will handle all asbestos projects.

Automatic Sprinkler Work

The Executive Director, Emergency Manger, Fire & Safety Systems must approve all plans for contract work dealing with fire suppression equipment and Campus Police will be notified before work starts. No Hot Work Permits will be issued for the contracted work area until fire suppression work has been completed.

Barricades and Guardrails

Hazardous areas must be cordoned off with barricades or tape to restrict access to employees, students and the general public, and Tri-C staff and students. All guardrails must meet the Occupational Safety & Health (OSHA) Standards for guardrail construction and standards for fall protection of workers must also be met. When barricades, guardrails or opening covers must be removed for work to proceed, permission to remove them must be obtained from the Tri-C Project Manager. Fall protection devices must be used to protect workers in conjunction with appropriate tie-off locations. Barricades, guardrails and covers must be replaced immediately after work is completed.

Blasting Operations

Advance notification of blasting operations must be provided to the Project Manager, Environmental Health & Safety, Campus Police Department, Cleveland Fire Department and local officials. The contractor is solely responsible to obtain all necessary permits from the appropriate agencies to conduct these operations and must also supply a copy of these permits to the Project Manager prior to project initiation. Final authority to proceed must be granted by the Tri-C Project Manager prior to the onset of the operation.

All explosives and detonation caps must be removed from the Tri-C property at the end of each workday unless the contractor has made arrangements with the Tri-C Project Manager and the Tri-C Police Department, and blasting equipment must be stored in an approved magazine while on Tri-C property.

Break Rooms

Contractors are only allowed access to break rooms as determined by the Project Manager.

Burning, Welding or Cutting

A Tri-C Hot Work Permit must be obtained from the Plant Manager before any burning, welding or cutting operations. Non-combustible, flame-proof shields or screens must be used to protect Tri-C employees, general public, and students from direct rays and/or arc flash. A fire watch must be maintained and all adjacent combustible materials must be removed or protected from the area. All work practices must conform to those of the American Welding Society as well as the instructions on the Hot Work Permit. Contractors must furnish their own 10 pound ABC rated fire extinguisher. All smoke detectors in the area must be covered or bagged to prevent contaminants and smoke from getting into to the detector and causing alarm. Also, if the fire system needs to be taken out of service temporarily. The Executive Director, Emergency Manger, Fire & Safety Systems must be notified and grant approval prior to any temporary shutdowns or the covering of fire detection equipment.

Chemicals

Contractors must assure the safe use and disposal of any chemicals, tools, equipment or other materials with which they are working. Under no circumstances are chemicals to be emptied into drains or left behind for Tri-C to dispose of.

Contractor must provide the Tri-C Project Manager and EHS with a list of chemicals to be used on Tri-C property and a copy of the Safety Data Sheet (SDS) that is compliant with the current OSHA Hazard Communication Standard (i.e., Global Harmonization System-compliant). The SDS must be accessible at all times when contractors are working with said chemical(s). Each chemical container that is brought on Tri-C's property must be labeled with the identity of the chemical, any hazard rating, the name of the contractor and any subcontractor using the chemical. Contractors must follow the safety procedures recommended by the manufacturer of any chemicals, tools and equipment or other materials used on Tri-C property, including but not limited to the procedures set forth in the SDS, those described in additional literature distributed with the items used, and those described in labels attached to the items or containers.

Combustion Engines

Liquefied petroleum (LP) or any combustion-type engine may be used with restrictions. Permission must be obtained from the Project Manager before using such equipment on, around or near any Tri-C building.

Compressed Air

Compressed air should never be used to clean dust from a worker's clothes or body.

Compressed Gas Cylinder

All compressed gas cylinders, whether in use or in transit, must be fastened securely in an upright position by a chain, suitable strap or a rigid retaining bar or structure. Compressed gas cylinders shall be secured on approved carriers or holders and must always be maintained in an upright position.

Regulators are required to reduce compressed gases to safe operating pressures. If a leak develops in a cylinder, it shall be immediately removed to a safe location outside. The supplier of the cylinder shall be notified if necessary. Cylinders must be permanently marked or stenciled to identify the type of gas in the cylinder in accordance with the requirements of ANSI Standards.

Confined Space Entry Permits

A confined space is a space that: (1) Contains or has a potential to contain a hazardous atmosphere. A hazardous atmosphere is an atmosphere that may expose employees to the risk of death, incapacitation, or impairment of ability to self-rescue that is, escape unaided from a permit space, injury, or acute illness from one or more of the following causes:

- Flammable gas, vapor or mist in excess of 10 percent of its lower explosion limit (LEL).
- Combustible dust at a concentration that meets or exceeds its LEL (approximated to a visibility of 5 feet or less).
- Atmospheric oxygen concentration below 19.5% or above 23.5%.
- Atmospheric concentration of any substance for which a dose or permissible exposure limit has been established.
- Any other atmospheric condition that is immediately dangerous to life or health.

(2) Contains a material that has the potential for engulfing an entrant such as water, sand, and soil; (3) Has an internal configuration such that an entrant could be trapped or asphyxiated by inwardly converging walls or by a floor which slopes downward and tapers to a smaller cross-section; or (4) Contains any other recognized serious safety or health hazard.

The contractor must have a copy of their Confined Space Entry Program on site and have all necessary equipment for entry. Prior to entering, the contractor must notify EHS staff of their intent to enter a confined space. A contractor may not enter any confined space until authorized to do so by the Project Manager. Once approved, the Project Manager will issue the permit.

Contractor Access

For security reasons, a contractor's access to Tri-C buildings is restricted to designated entrances. Emergency exits shall only be used in the event of an emergency. Doors locked from the outside (emergency exits) must never be propped open without the prior approval of the Project Manager.

Before work starts:

1. Contractors must provide key loss insurance up to \$250,000.00.

- Contractors who will be working with asbestos must show certification to the Project Manager and EHS of attendance to an approved asbestos awareness course for all workers.
- 3. Contractors must provide PPE (personal protective equipment) for their workers at all times.
- 4. Contractors must provide evidence of safety training to the Project Manager and EHS.

Electrical

All electrical installations must comply with the requirements of the National Electrical Code, NFPA 70E and Tri-C's Electrical Standards. All equipment being worked on at Tri-C will be at a zero state for energy potential if possible to minimize the risk of injury.

Whenever work is to be performed on systems exceeding 600 volts, special instructions must be obtained and followed from the Plant Manager. An Energized Work Permit must be completed and approved by the Plant Manager before work may begin. Contractor must coordinate access/shutdown of any electric system with the Plant Manager. New equipment will use the same labeling used on existing equipment. Proposed grounding must be approved by the Plant Manager. The Project Manager must receive Lockout / Tag out documents from the General Contractor who would then forward to EHS for review before the project starts. See Appendix A for minimum requirements for Lockout / Tag out.

Emergency Equipment

Tri-C fire or emergency equipment must not be moved, blocked or have access restricted, unless specific permission to do so has been granted. This permission will be granted on a case-by-case basis by the Executive Director, Emergency Manger, of Safety and Security Systems. Fire protection and detection systems must not be moved, modified or disabled without the permission of the Access Control Manager or the Fire Prevention Officer.

Excavation and Trenches

Before beginning any excavation work, the existence and location of all underground pipes, tanks and equipment must be determined. The OSHA construction standard for excavation must be followed in all excavation projects.

Evewash and Safety Shower

Water supply to eyewash and safety shower stations must be assured at all times. If work requires a shut-down of the water supply, building occupants must be notified in advance. Contact the Project Manager and EHS for additional information.

Facilities

The use of Tri-C owned equipment such as electrical trucks, machinery, and power/hand tools is not permitted except where specifically authorized by the Tri-C Plant Manager. Contractor personnel are not to operate valves or controls to shutdown, isolate, start or adjust operating systems or equipment without specific permission of the Tri-C Plant Manager. When

working on systems which could be activated or on isolated sections of active systems, the isolation device must be locked and tagged out (Appendix A). The Tri-C Project Manager will arrange the notification and scheduling of Lockout/Tag out with affected Tri-C areas in accordance with the project specifications.

Fall Protection

All safety belts and lanyards must meet OSHA requirements. When a lanyard is a wire rope or nylon webbing, a shock absorber must be used.

Fire

- Contractors shall preview work areas to identify components of the fire alarm detection, notification and activation devices, sprinkler and or special suppression systems that may be affected by their work. Contractors shall work with the Executive Director, Emergency Manger, Fire and Safety Systems and make necessary provisions to reduce accidental damage or activation of all life safety systems.
- 2. Contractors requiring a sprinkler or fire alarm system to be deactivated or put into test mode shall give a minimum of 48 hours' notice prior to commencement of their work.
- 3. Only contractors licensed by the State of Ohio Department of Commerce Division of State Fire Marshal for fire alarm and or sprinkler systems may initiate any modifications to the system, including but not limited to new installations, relocations, or removals of any and all devices.
- 4. Contractors will provide their own fire extinguishers and apply for a Hot Work Permit when appropriate.
- 5. Contractors and all Contractor employees must know how to call Tri-C Police in the event of an emergency. This information is provided during the Contractor Training session that is required before contractors are permitted to work on campus.
- 6. Contractors who need a Hot Work Permit must plan work accordingly and provide 48 hour notice to AC&SS before permit is issued.

First Aid Kits

Every contractor is required to have a first aid kit and contractor employees must be made aware of its location. All injuries requiring first aid assistance by local hospitals must be reported to the Tri-C Project Manager and EHS.

Hot Work Procedure - Tri-C Employees (See Appendix B for full procedures)

- 1. Obtain a Hot Work Permit from the Plant Manager.
- 2. The Plant Manager will consult with Applicant to verify as much detail as possible.
- 3. If fire alarms need to be taken out of a service or if any modification to the fire prevention systems is deemed necessary to safely perform hot work, contact the Executive Director, Emergency Manger, Fire and Safety Systems for assistance in this process and approval of fire watch measures. The signature of authorized Plant Manager is required for permit to be issued.
- 4. Employees' signature is verification that applicable precautions have been taken.

- 5. Departmental representatives reserve the right to inspect all job sites prior to issuing the permit. Fire Prevention Officer maintains original application and Applicant receives carbon copy.
- 6. Post and maintain permit(s) in work area throughout the duration of the hot work activity and restrict access to the area until work is complete and the area restored to its original condition.
- 7. Additional permits are required should work extend twenty-four (24) hours beyond the start time indicated on the permit. A permit may be issued for a period of time longer than twenty-four (24) hours for longer remodeling/repair jobs but no longer than one (1) week.

Hot Work Procedure – Outside Contracted Employee (See Appendix B flor full procedures)

- 1. Obtain a blank Hot Work Permit from Tri-C's Plant Manager.
- 2. Fire Prevention Official will consult with Applicant to verify as much detail as possible.
- 3. If fire alarms systems need to be taken out of a service or if any modification to fire prevention systems is deemed necessary to safely perform hot work, contact the Executive Director, Emergency Manger, Fire and Safety Systems for assistance in this process and approval of fire watch measures. **The signature of authorized Plant Manager is required for permit to be issued**. (Permit is attached as Appendix C)
- 4. Employees' signature is verification that applicable precautions have been taken.
- 5. Departmental representatives reserve the right to inspect all job sites prior to issuing the permit
- 6. Fire Prevention Officer maintains original application and Applicant receives carbon copy.
- 7. Post and maintain permit in work area throughout the duration of the hot work activity and restrict access to the area until work is complete and the area is restored to its original condition.
- 8. Additional permits are required should work extend twenty-four (24) hours beyond the start time indicated on the permit. A permit may be issued for a period of time longer than twenty-four (24) hours for longer remodeling/repair jobs but no longer than one (1) week.
- 9. All work practices must conform to the American Welding Society and the instructions on the hot work permit.
- 10. Contractors must furnish their own 10 pound ABC rated fire extinguisher.

Keys

Tri-C has installed electronic key boxes to provide access to work areas. A *Key Box Access Request Form* must be signed by each contractor and your Tri-C Point-of-Contact, and approved by the Plant Manager for processing. Following approval, each contractor will be given a key code that will allow access to the key boxes needed for their work activities.

- 1. Do not loan, transfer, give possession of, misuse, modify, or alter Tri-C keys or the key ring.
- 2. Never allow others to use your PIN (code), nor is it permissible to use another's PIN/code.

- 3. Upon noticing any damage to a key, key ring, or key box, the contactor must report it to Tri-C's Police Department immediately.
- 4. Contractors must have suitable key loss insurance to the value of \$250,000.00 and must show proof of said insurance coverage.
- 5. Never cause, allow, or contribute to the making of a copy/duplicate of any Tri-C key.
- 6. Loss of a key can be a significant financial responsibility for you, ranging from \$58 to \$500,000. The contractor (and his or her company) are responsible for costs associated with replacing all locks/keys affected by your loss.
- 7. Ask the value of your particular key(s) before you sign the *Key Box Access Request Form* to be aware of the liability.
- 8. Abide by the Tri-C Access Control Regulations described on the Tri-C website.
- 9. Prior to departure from the Tri-C campus, contractors must lock and verify all doors in areas they have worked in are locked and return all keys.
- 10. For any questions or concerns, please contact the Executive Director, Emergency Manger, Fire and Safety System.

Ladders

Ladders must conform to OSHA design requirements and be free of defects. Wooden ladders must not be painted. Ladders must be secured to keep them from shifting, slipping, being knocked over or blown over by climatic conditions. Wooden ladders should be used during electrical work or activities

Mechanical Equipment

Contractor must follow Tri-C's Mechanical Standards. All access/shutdowns of mechanical equipment must be coordinated with the Plant Manager. All work must be scheduled off hours unless permission has been otherwise granted. All equipment installed must be connected to the Building Automation System, and all electrical connections must comply with Tri-C's electrical safety requirements.

Mercury Spills

Every effort should be made to prevent all spills of metallic mercury. For mercury spills of any volume, all personnel shall leave the area and contact Tri-C Police Department to arrange for cleanup. The Contractor should also notify Campus Police when there has been a spill. The spill area must to roped, taped or barricaded to prevent accidental exposure. The contractor may be held responsible for the cost of cleanup and disposal.

Mercury Bulbs

All fluorescence light bulbs and high intensity mercury lights will be recycled by a licensed bulb recycler and removed off site by the contractor. Contractors should never leave waste behind. All broken bulbs will be handled as hazardous waste. For further information, contact EHS.

Overhead Work

Overhead work must not be performed above Tri-C's employees, students or the general public. Access to areas affected by overhead work shall be restricted.

Parking

All vehicles parked outside a fenced staging area on Tri-C's property must display a valid Tri-C Parking permit unless parked in a pay-per-hour space. If parked at a meter, the meter must be paid. Use of any parking facilities for construction related activity must be approved in advance by Tri-C Police Department. Tri-C Contractors are subject to Tri-C Parking Rules and Regulations. Violations of these rules are subject to issuance of parking citations and/or vehicle impound.

PCBs

Before starting work that involves PCBs or PCB containing material, the contractor must submit two copies of their procedures for handling, packaging, shipping and disposal of PCBs to the Project Manager and EHS. The contactor must also label all items and containers with the appropriate labels for removal from Tri-C property. The contractor must ensure that the manifest and land disposal requirements

(LDR) are properly completed and signed in accordance with Federal and State regulations.

Environmental Health & Safety staff will review and sign all Hazardous Waste Manifests.

Personal Protective Equipment

In certain construction and maintenance operations personal protective equipment, including but not limited to safety glasses, goggles, respirators, hardhats and other protective clothing must be worn at all times. The type of PPE to be worn will be determined by the physical and chemical hazards of the contracted job. The contractor is responsible for the selection of PPE for their employees that is necessary to perform the job safely and correctly. All OSHA requirements for employee safety must be strictly adhered too.

Plumbing

All plumbing work and installations must comply with the requirements in the Ohio Plumbing Code with points of emphasis/special importance given to:

- Backflow protection must be provided for all domestic water installations that use water for a non-potable use. For Non-health (Non-Toxic no chemicals added cross connections) an ASSE 1015 double-check backflow preventer shall be installed. This is defined as any point on a water supply system where a polluting substance may come in contact with potable water aesthetically affecting the taste, odor or appearance of the water, but not hazardous to health.
- For Health Hazard (Toxic cross-connections defined as any point on a water supply system where a contaminating substance may come in contact with potable water creating an actual health hazard, causing sickness or death) an ASSE 1013 shall be installed. Irrigation systems must be protected from backflow by either a pressure vacuum breaker, or a reduced pressure backflow preventer. The device must be protected from freezing the temperature shall be maintained at 40 degrees Fahrenheit or higher inside the enclosure.
- When any mechanical or plumbing line penetrates any floor surface or a brick/block/ concrete wall it must be sleeved. The sleeve shall be 2 times the diameter of the pipe penetrating the surface. Annular spaces between sleeves and pipes shall be filled or tightly caulked in an approved manner. Annular spaces between sleeves and pipes in fireresistance rated assemblies shall be filled or tightly caulked in accordance with the Ohio Building Code.

• All storm drains shall receive water only from the following sources: rainwater; surface water; subsurface water; and similar liquid wastes. Drain disposal of chemicals is never permitted (i.e., cement; rubber/silicone based products; or paints, etc.). In addition, the maximum discharge temperature into any drain shall be 140 degrees Fahrenheit.

Refrigerants

Only certified technicians may perform work on equipment with refrigerants. The contractor must provide a copy of the technician's certifications prior to project start-up. The contractor must provide documentation to the Tri-C Project Manager indicating the date, type of service, amount and type of refrigerant used. All work must conform to the 40 CFR parts 82 for the protection of stratospheric ozone.

Roof Safety

At least two of the contractor's employees must be present during all work on campus roofs. All construction projects that have the potential for a fall hazard must comply with OSHA's 29 CFR 1926 sub part M, and 1910.23. It is the contractor's responsibility to train all of their employees on all relevant safety issues.

Safety Representative

It is the responsibility of all contractors to appoint a Safety Representative (holding at least a foreman position), to oversee all contract work at Tri-C. The foreman will perform daily job inspections and correct any unsafe conditions. It is the contractor's responsibility to train all of their employees on all relevant safety issues. The foreman must investigate any accident and report to the Tri-C Project Manager, Environmental Health & Safety and Risk Management.

Safety Rules and Procedures

To report a medical emergency:

- Call 216-987-4235 or dial 4911 to contact Tri-C Police Department.
- Police will provide or arrange required services, including Local Emergency Medical Services.

Security Requirements

The following items are not permitted on Tri-C's property: alcoholic beverages, illicit drugs, drug related paraphernalia, explosives, firearms and ammunition.

Smoking

Smoking, vaping and chewing tobacco in Tri-C buildings is prohibited. Tri-C is a tobacco-free campus. If you chose to smoke, you must do so outside in a location no closer than 20 feet from building doorways.

Solvents and Paints

The use of solvents, chemicals or paints requires prior approval of Tri-C. An SDS for each substance must be submitted to the Project Manager and EHS for review and approval. Adequate ventilation must be maintained at all times when paints, chemicals or solvents are used. Personnel must use proper respiratory protection and protective equipment when toxicity of the material requires such protection. Flammable solvents and materials must be

used with caution when possible sources of ignition exist.

When flammable solvents are being used, the contractor must post signs in the area to identify the hazard(s) present in the area. Flammable paint and solvents must be stored in an approved flammable liquids storage cabinet when storage is required. Corrosives (acid, bases) and flammables must never be stored together. If a cabinet is not available, all chemicals must be removed from Tri-C property by the end of the workday. The Contractor, not Tri-C, is responsible for the proper disposal of all waste chemicals.

Tar Pots

Tar pots are never permitted on roofs and each pot must have its own 10 pound ABC fire extinguisher. Tar pots must be kept a minimum of 10 feet from any building. Before using a tar pot, the contractor must have approval from the Project Manager.

Tri-C Telephones

Use of telephones is restricted to Tri-C business-related calls. See your foreman for phone locations.

Tools - Hand and Power

All hand tools and operations of hand tools shall conform to the OSHA construction standard 1926.302.

Vehicles

All contractor personnel shall park their vehicles in areas designated as appropriate by the Project Manager. Refer to the Parking section contained in this document.

Warning Signs

The contractor must provide all warning signs, barriers, barricades etc., whenever such notification is warranted. Where signs and barricades do not provide adequate protection, flagmen must be used.

Worksite Housekeeping

Waste material and debris must be removed from the job site at the end of each workday. Waste material and debris must never be thrown from any level to another. Material must be piled, stacked or otherwise stored to prevent tipping or collapse.

Overhead storage of tools, equipment etc., by the contractor is prohibited. No waste material will be left by the contractor in the space above suspended ceiling panels.

The foreman will perform daily job inspections and correct any unsafe conditions. It is the contractor's responsibility to train all of their employees on all relevant safety issues. The foreman must investigate any accident and report to the Tri-C Project Manager, Environmental Health & Safety and Risk Management. "Contractors should be aware of air intake without exposing residents to foul air, high levels of exhaust or particulate matter and potential problems".

The Contractor agrees to provide for a safe and healthy work environment, and to maintain compliance with all applicable provisions of the Occupational Safety and Health Administration's (OSHA) regulations as set forth in the Chapter 29 of Code of Federal Regulations pertaining to health and safety in the workplace (29 CFR 1910 and 1926). The Contractor also agrees to provide to Environmental Health and Safety evidence of applicable written programs prior to beginning work. These include but are not limited to Lockout/Tag Out (Control of Hazardous Energy), Confined Space, Hazard Communication, and Hearing Conservation.

The Contractor understands the signatures below represent an authorization to proceed with work space activities only, and do not, nor are they intended to, represent approval of plans, designs, methods, specifications and work practices of the Contractor.

As an agent of the above company, I have read and agree to the above outlined