

January 5, 2026

**TO ALL BIDDERS ON:**

State University of New York College at Cortland  
South Campus Parking Lot  
Project No. 20240058

**ADDENDUM NO. 1**

This Addendum is hereby included in and made a part of the Contract Documents whether or not attached hereto.

All requirements of the original specifications and drawings shall remain in force except as notified by this Addendum.

As an acknowledgement of this **Addendum No. 1** dated **January 5, 2026**, please sign the form below and return it with your bid. Failure to do so could result in your bid being deemed informal and potentially disqualified.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

\_\_\_\_\_  
Firm

### ADDENDUM NO. 1

This Addendum contains changes to the requirements of the Contract Documents and Specifications. Such changes are to be incorporated into the Contract Documents to apply to the work with the same meaning and force as if they had been included in the original documents.

If this Addendum modifies a portion of a paragraph of the Specifications or a portion of any Drawings, the remainder of the paragraph of Drawing shall remain in force.

NOTE: Provisions of all Contract Documents apply.

**Part 1** Non-Contract Documents

Geotech Report shall be incorporated as part of the bid documents.

**Part 2** Contract Documents – General

UPDATE OR NONE

**Part 3** Contract Documents – Specifications

**Update Bid Specifications-** 311201 Site Preparation will now read:

**Bid Specifications-** 311201 Site Preparation

PART 2 - PRODUCTS

~~2.1 TEMPORARY CHAIN LINK FENCE AND GATES~~

~~A. Shall be new or good quality 6'-0" height galvanized chain link fence and gates.~~

~~B. Layout of temporary fencing and gates shall be completed to surround the entire site with temporary fencing as directed by the Owner to prevent student access to the project site.~~

2.2 PLASTIC FENCE

A. Shall be new or good quality used 4'-0" high heavy duty orange plastic fence NC450.

B. Posts shall be new or good quality U-channel posts to hold plastic fence.

2.3 OTHER PROTECTIVE DEVICES

A. Shall include, but not be limited to; wood planks, rubber mats, barriers, lights, barricades, coverings, traffic controls, steel plates, and other temporary protections.

B. Contractor to provide all necessary protections required by Occupational Safety and Health Administration (OSHA).

**Part 4** Contract Documents – Drawings  
UPDATE OR NONE

**Part 5** Attachments  
Virtual pre-Bid meeting agenda, sign-in sheet and transcript.  
Geotech Report  
Updated Doc #7a - SUNY Cortland South Campus Parking Lot BID Technical Site Specs\_2025-12-19

END OF ADDENDUM NO. 1

**Project Name:** [South Campus Parking Lot]

**Project Number:** [20240058]

### **PRE-BID MEETING**

**1. Introductions**

- A. Introduce project team
- B. Sign in sheet

**2. Distribution of Documents**

- A. \$45 Fee, non-refundable
- B. Request through Syracuse Blueprint

**3. Bidding Schedule**

- A. **Bids due:** [January 15, 2026, 2:00PM], no faxes, 2 copies, and must include Bid Bond.
- B. 3 low bidders contacted within 48 hours: Bid breakdown, sub-contractor list, certificate of insurance, bonds verification.
- C. SUNY Rules and Regulations regarding MWBE requirements (Executive Law Article 15-A)- **Questions email: Teresa Contessa, [Teresa.Contessa@cortland.edu](mailto:Teresa.Contessa@cortland.edu)**
  - SUNY Diversity Goals- [11] %MBE, [19] %WBE, 6% SDVOB
  - SUNY EEO Goals (10% each of hourly workforce);
  - SUNY's MWBE Directory  
<https://ny.newnycontracts.com/FrontEnd/VendorSearchPublic.asp>
  - NYS OGS SDVOB Directory  
<https://ogs.ny.gov/Veterans/default.asp>
  - Utilization plans required within 7 days of Notice of Award.
  - Monthly utilization plans and EEO staffing plan required with monthly payments.
- D. Award within 30 days

**4. Changes to Documents**

- A. Only by written Addenda. No notes or verbal responses, meetings or phone call
- B. Last date to issue addendum is [January 9, 2026]. All questions must be submitted to [Dillon Young, [Dillon.Young@Cortland.edu](mailto:Dillon.Young@Cortland.edu) or Kristi Hughston, [Kristi.hughston@cortland.edu](mailto:Kristi.hughston@cortland.edu)] by [January 8, 2026 @ 2:00PM].

**5. Scope of Work**

- A. Conversion of existing recreation field to 214 space parking lot on South Campus and associated infrastructure
- B. ALT-1: Additional Sidewalk
- C. ALT-2: Replacement of concrete pads & new bus shelters
- D. Review electrical scope of work. SUNY Cortland will procure electrical work not

**SUNY Cortland – Facilities Planning, Design & Construction**

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Pre-Bid Meeting Agenda

included in the contract documents.

**6. Schedule –**

- A. Mobilization April 1, 2026, assuming work does not impede campus operation
- B. Alternative mobilization May 18, 2026, if campus operations will be impeded
- C. Substantial Completion July 31, 2026

**7. Parking / Access / Staging**

- A. Confined to contract limit lines



## Pre-Bid Meeting/Site Visit Attendance

Project: South Campus Parking Lot

Project Coordinator: Dillon Young

Date / Time: January 5, 2026, 10:00 am

Re: Pre-bid Meeting

Name	Company	Phone	Email
Dillon Young	SUNY Cortland		<a href="mailto:Dillon.Young@Cortland.edu">Dillon.Young@Cortland.edu</a>
Kristi Hughston	SUNY Cortland		Kristi.Hughston@Cortland.edu
Tim Bonaparte	Appel Osborne		tbonaparte@appelosborne.com
Adam Henry	Adhan Piping Co Inc.		ahenry@adhanpiping.com
Brett Furmann	Royal Pavement Solutions		brett@royalpavementsolutions.com
Edward Visconti	Maple Ridge Organics		ed@mapleridge-organics.com
Jason Tubolino	W.D. Malone Trucking & Excavating, Inc.		<a href="mailto:jason@wdmalone.com">jason@wdmalone.com</a>
Tim Byler	Byler Excavating		tim@bylerexcavating.com
Tony Legnetto	Paul F. Vitale, Inc		TLegnetto@vitalecompanies.com
Zady Barahona	Columbia Equipment Co.		<a href="mailto:zady@columbiaequipment.com">zady@columbiaequipment.com</a>

# South Campus Parking Lot Pre-Bid Meeting-20260105\_145519UTC-Meeting Recording

January 5, 2026, 2:55PM

26m 50s



**Kristi Hughston** 0:27

Can you hear me?

Can you speak so I can tell if I can hear you? I cannot.



**Tim Bonaparte** 0:35

Morning.

You can't hear me.



**Kristi Hughston** 0:40

How about now? How about now? Oh, better. OK, perfect. Thank you.



**Tim Bonaparte** 0:41

How about now?



**Kristi Hughston** 0:48

Yeah.



**Adam Henry** 0:49

What's up, Tim? Hi, Kristi.



**Tim Bonaparte** 0:49

Mr. Henry, Mr. Henry.



**Kristi Hughston** 0:51

Hey, how are you?



**Adam Henry** 0:54

Pretty good.

**TB** **Tim Bonaparte** 0:56  
Tony Legnato too.

**TL** **Tony Legnetto** 0:58  
Good morning. Can you hear me?

 **Kristi Hughston** 0:59  
Do you want to just take that whole section? Sure.

**TB** **Tim Bonaparte** 0:59  
Stop talking. Yeah, man.

**TL** **Tony Legnetto** 1:01  
How are you?

**TB** **Tim Bonaparte** 1:02  
Very real.

 **Kristi Hughston** 3:16  
3.

**DY** **Dillon Young** 5:05  
Good morning everyone.  
I will go ahead and get this kicked off. It's 10:00. So I just want to say thank you all for joining. SUNY Cortland is excited for this project. We're building a new parking lot which is part of a larger scale plan for the campus to build a new res residence hall here on campus. So we appreciate everyone's interest.  
Here in this project.  
We do. We did send out an agenda for this meeting, pretty standard for campus projects. I just want to go through, just do a quick introduction who we have on the call here from our side. My name is Dillon Young.  
I am a project manager here at SUNY Cortland and I will be the lead on this project. We also have Kristi Houston. She is the contract administrator for SUNY Cortland.

She's handing all the contractual requirements of the project. You'll see her name throughout the.

 **Scott** 5:59  
Mhm.

 **Dillon Young** 6:07  
Agenda here and on all the correspondence. So obviously all the questions and everything go through her and we also have Tim Bonaparte, partner at Pell Osborne and he is the lead landscape architect on this project through the design and construction administration.  
This is our, I think our first attempt at just doing a virtual pre-bid meeting. I certainly think that makes it more more flexible for folks to join, not having to come to campus. This is obviously a site project, so if you come to campus there isn't a whole lot to see.  
Because we are obviously under 10 inches of snow here in central New York. Just I don't know if everybody did see, but we are recording this meeting. It will be on file if needed. I don't know if Kristi if we're what we do as far as the addendum, but anyways as part of the addendum we'll share the the.  
The agenda from this, I don't know about the recording, but if there's anybody that needs the recording, I think we can share it.

 **Kristi Hughston** 7:10  
And the and the sign in sheet. So everybody that's logged in today, I'll put you down on the sign in sheet and that will also be in the addendum.

 **Dillon Young** 7:22  
Yeah, so OK. And then so just going down through the agenda distribution documents, I assume most everyone here on the call already has their documents, but they are available through Syracuse Blueprint. I assume other plain houses as well. And then there is the typical \$45.

 **Kristi Hughston** 7:40  
Sure then.

**DY** **Dillon Young** 7:42

A nonrefundable fee for those documents.

Next portion of the meeting for the bidding schedule, I'll just let Kristi run through that portion of our agenda.

 **Kristi Hughston** 7:56

So the bids are going to be due January 15th at 2:00 PM We will have an open bid.

Anybody that wants to be here for that can e-mail me to get a parking permit.

We will ask for you to bring in 2 copies of the bid and the bid bond. The Department of Labor contractor certification, if you have it, would be helpful. If not, it can be issued to us later. We're gonna have the three low bidders contacted within 48 hours.

They're going to need to provide us with a bid breakdown, a subcontractor list, certificate of insurance and bond verification. That's also going to be issued. There's a form that we pass out to the three low bids at the meeting also, so you don't have to necessarily keep track of that now.

The SUNY rules and regulations regarding the MWBE and the SDVOV requirements.

Any major questions that you have for any contacts that you have for scope of work can go through Teresa Contessa and her e-mail address is there.

Any questions that you have, you can certainly e-mail them to me. She would be the one that would get you any contact information, but if you prefer to e-mail me, that's fine. I can get you in contact with her. The diversity goals are 11% minority, 19% women and six.

Percent SDVOBS. Our SUNY EEO goals are 10% as they are on all contracts. The directory listings are listed here in case you need them. Utilization plans will be required within seven days of notice of award.

And monthly utilization plans and EEO staffing plans are required with monthly payments. This is more for the winning bidder, so we will review this more if needed at that point. But certainly if you have any questions, reach out to me now because starting that.

Process of contacting vendors is is good to do upfront. The award will be done within 30 days. We have to do approvals through the A G and OSC and that can be a really lengthy process. So we're going to attempt to move things through as quickly as possible.

So once the bid is awarded, I'll ask that you start sending me whatever bid

documents that you can. When you have them available, I can start preparing them rather than saving everything for the very end. Just start right off the bat. So then Dillon, I was at, were you going to be doing the changes to documents section?

**DY** **Dillon Young** 10:41

Unless you want to take it.

 **Kristi Hughston** 10:43

That's fine. So any changes to the documents will only be by written addendum. Any notes or verbal responses, meetings or phone calls will not be acceptable. The last date to issue an addendum is going to be January 9th for us.

So all questions must be submitted to Dillon or me or both by January 8th at 2:00 PM, which if everybody's stuck in the holiday vortex, it's actually this coming Thursday, so make sure you get those in to us.

As soon as possible. So now I'll let Dillon go ahead.

**DY** **Dillon Young** 11:19

All right. Thank you, Kristi. I will just reinforce that as well. All questions by January 8th, we really need to hold this bid date. So if you do have any questions in the coming days, if you're looking through the drawings and anything comes up, please get those questions into us so we can get that addendum out and.

 **Kristi Hughston** 11:21

Yep.

**DY** **Dillon Young** 11:39

Hold that bid date. I am going to let Tim run through the scope of work for the project.

**TB** **Tim Bonaparte** 11:47

You are you able to share? Let me share my screen down or no?  
I was just gonna show these guys where it is on campus the site.

**DY** **Dillon Young** 12:01  
You're not able to.

 **Kristi Hughston** 12:02  
All right, let me see if I can let you.

**TB** **Tim Bonaparte** 12:03  
Now, right now, I can't share. It's all right.  
So I mean just a couple of couple of kind of things to note, especially being site contractors. You guys need to know that everything on this scope of work is yours to cover. Um.

 **Kristi Hughston** 12:22  
You should be able to go now.

**TB** **Tim Bonaparte** 12:30  
All right, perfect. Thank you, Kristi. Let's see.  
You guys can see that. Can you see that? Um.

 **Kristi Hughston** 12:38  
Yeah.

**TB** **Tim Bonaparte** 12:38  
Existing athletic field at the corner of Pashley and Stadium Drive. So this is the existing stadium, the Redfield Stadium here. This is a brand new parking lot that just got completed last summer. So this athletic field right here, this practice grass athletic field, this is the field that is going to be converted to this parking.  
Working long.  
Some things back to what I was talking about was that there's four existing stadium light poles that will be removed as part of this contract. It'll be the site contractor's responsibility to remove those athletic poles.  
Sports poles, including the foundations down to a certain level that are out of the way of your site work, so please take note of that specific requirement. All these existing signs get relocated in some fashion.

There is an existing lacrosse rebounder wall that gets relocated. Again, that shows on the plans. There are existing drywells and existing storm systems in place that do get protected and do need to be video scoped and cleaned and identified prior to constraining.

Construction being completed, there is an existing 4 inch.

Water line that is in this general area that also needs to be located prior to any construction. Those notes are highlighted on the drawings, but one of the addendum items that Kristi is going to be providing is the geotechnical report. So we do have infiltration tests.

Depth of topsoil, what the existing ground conditions are. So you have that information that will be coming out in the next addendum. But ultimately this is what that scope of work is being being converting this athletic field to that 200 plus car parking lot.

Um.

As I show on the drawings, there is, I don't know, Dillon, you want me to get into the alternates as well?

**DY** **Dillon Young** 14:42

Sure.

**TB** **Tim Bonaparte** 14:43

OK, there is you can see well maybe on this back one.

I did it up, didn't update.

Really.

All of a sudden I have the old.

Old aerial here. Um.

There is an existing sidewalk that is stops at the end of this existing parking lot. We have an alternate to continue that sidewalk all the way through the top half of the the new parking lot. So that is one of the alternates. The other alternate is to maybe. Drive a little bit east on Fulmer Dr. There's two existing bus shelter areas that would be getting replaced. That is the other alternate, so the concrete pad and then the actual bus shelters themselves fully.

Is the alternate.

As far as the yeah, let me let me just as far as the electric is concerned, the college

will be providing all of the electric equipment. So that means the foundations, the site lighting.

**EV** **Edward Visconti** 15:51

Can I ask a quick question?

**TB** **Tim Bonaparte** 16:06

Conduit and any hand holes. It will be up to this site contractor to install all that equipment. It will be not up to you to power it all up. That will be campus electrical contractor that does that work. So they will have all this, all the material there for you, but it'll be up to you to do any excavation.

Trenching, backfill, compaction, installation of the light poles. But again, you don't have to power those up. That's going to be something that the college will will provide. So I apologize, somebody had a question.

Was it Tony? Where'd he go?

**EV** **Edward Visconti** 16:48

Was it me?

There was me. I just got the. I'm sorry, I shut my mic off again. So the base bid where the for open at one and two, the base bid will be just topsoil and side, correct?

**TB** **Tim Bonaparte** 16:50

Oh.

**DY** **Dillon Young** 16:50

No, yeah.

**TB** **Tim Bonaparte** 17:04

Yeah. So one of the alternates for the for the bus shelter, I forget the number Dillon there, it's either all or nothing, right. So if they if the bid comes in at whatever it is, the college will either accept it to be fully replaced or not.

**DY** **Dillon Young** 17:09

2.

**EV Edward Visconti** 17:09  
That's too.

**TB Tim Bonaparte** 17:19  
If there's if, if they don't accept it, no work will occur at the bus shelter, concrete pads or the bus shelters themselves at.

**EV Edward Visconti** 17:27  
So that so they stay in place. Existing would stay in place. OK, alright.

**TB Tim Bonaparte** 17:31  
Correct. Yeah, yeah. There would be no work there at all. The other one, it's just, it's whether it's to install the rest of the sidewalk or not. So it's really just your square footage of concrete for your sidewalk. And I think I have.

**EV Edward Visconti** 17:43  
Yeah.

**TB Tim Bonaparte** 17:46  
The curb for that sidewalk there too. So I have it. I have it outlined with the exact square footage, so everybody should be bidding the same square footage.  
Good question.

**EV Edward Visconti** 17:59  
Thank you. Yeah.

**TL Tony Legnetto** 18:00  
Tim, Tim, is there a place on site for the excess topsoil and spoil material?

**TB Tim Bonaparte** 18:05  
As of right now, I have you guys hauling all that material off site. I do not believe, Dillon, that you guys wanted any of that topsoil.

**DY Dillon Young** 18:17

We do not. Well, the topsoil not. It would all be called off site.  
Your.

**TB** **Tim Bonaparte** 18:22

Right, so.

**AH** **Adam Henry** 18:23

Your note on your drawing shows it's staying on site.

**DY** **Dillon Young** 18:26

Just to stockpile, I think you have it Shell. You have a note to the north of the parking to stockpile any some I think just during construction.

**TB** **Tim Bonaparte** 18:27

Which note?

Yeah, you would stockpile top soil that you need for proposed lawn areas. Everything else gets hauled off and that's in the spec and site prep spec. So whatever you need to put back down, you don't want to haul off, you leave it off to the side.

Take it to your house. I don't care. College doesn't want it. They don't want any additional material either.

Um.

**EV** **Edward Visconti** 19:00

So regarding the electrical, so the your the college electrical contractor is going to make safe through all the disconnects.

**TB** **Tim Bonaparte** 19:08

Correct.

**EV** **Edward Visconti** 19:09

Then were to excavate and install all the conduit boxes and what have you. So I assume that that means we'd have to have an electrical contractor install that or are you gonna allow the site contractor to install it if we're not licensed?

**TB** **Tim Bonaparte** 19:15  
Yeah.

**EV** **Edward Visconti** 19:24  
I'm just wondering what the licensing is down there for electrical work.

**DY** **Dillon Young** 19:30  
There is not electrical licensing requirements.

**EV** **Edward Visconti** 19:37  
OK, so we don't have to be a licensed electrician or electrical contractor to install the conduit and pull boxes and install the lights.

**TB** **Tim Bonaparte** 19:47  
No, no, you'll have so the so the college's electrical contractor will be there is be one of the things that you'll be coordinating with. So you know when you have a question about where something goes or how something gets installed, they'll just say like Yup, do this and this is what I want you to do so.

**DY** **Dillon Young** 19:49  
No.

**EV** **Edward Visconti** 19:50  
OK.

**TB** **Tim Bonaparte** 20:05  
You'll have that ability to have coordination with the electrical contractor that the college will be as under term contract.

**DY** **Dillon Young** 20:15  
Yeah.

**TL** **Tony Legnetto** 20:16

Did do the contract documents tell us what to do with the field lighting the poles once we've taken down?

**TB** **Tim Bonaparte** 20:25

They, you know, it was a good question. It was one of the things where the college wanted some of the light fixtures or not, but I think it was determined that they didn't want any, any of it. So I mean you can take it to the recycler or whatever you want.

**DY** **Dillon Young** 20:34

That's correct.

**TL** **Tony Legnetto** 20:35

Yes.

And also, is there a spec or a detail on the proposed light poles that we have to put up looking for weights and heights?

**TB** **Tim Bonaparte** 20:46

Yes, there is. There's the footing details around the drawings. The specs for the light poles are in the specs. But again, those are all information only. So there should be a three sets of documents that are electrical coordination. So you know where the runs go, where the light poles go, size of the footing, so you know exactly what the trenching depth is.

**TL** **Tony Legnetto** 20:59

OK.

**TB** **Tim Bonaparte** 21:06

Is what you're back filling all that information is on those electrical drawings.

**DY** **Dillon Young** 21:15

Any other questions on scope of work?

**EV** **Edward Visconti** 21:19

Yeah. So, so basically the light poles, there's no actual new light poles going in. It's just relocating what's on site. That's what I see on the drawings, correct?

**TB** **Tim Bonaparte** 21:27

Well there there's there's two existing that get relocated and then there will be additional new light poles and those are again shown on the on the site plans and the electrical site plan. So I think there's like I said two are getting relocated and then the other ones are new.

**DY** **Dillon Young** 21:35

Yes, 100.

**EV** **Edward Visconti** 21:43

OK.

**TB** **Tim Bonaparte** 21:46

But you definitely want to make sure you have removing the four sports poles in your contract.

**DY** **Dillon Young** 21:57

OK, we're picking up quite a bit of background noise, so if everybody could just mute, we appreciate it.

Thank you. OK. So as far as schedule, so our plan is to cut you folks loose just as soon as possible as weather allows in the spring. That's why I included on here.

For a mobilization April 1st and that's just assuming that you can work within the contract limit lines and not impede on campus. We do have students on campus. Our graduation is May 16th, so.

There will still be plenty of activity through the middle of May, so it is our goal though to let you guys get started just as soon as weather breaks so you can get ahead of it and be here.

Because we do have a hard deadline that July 31st for the substantial completion. So if you do not feel that you could do this work without impeding the campus, then the start mobilization would be May 18th. We do however have pretty easy access through a back service Rd.

Right to this parking lot, right to Tompkins St. So in and out of campus for this

location is actually pretty easy. So I think it's very reasonable to get started with that early mobilization.

And then just as far as parking access staging, again, that's all within the contract limit lines.

The area around this is not extremely busy. It's on the back service Rd. to our stadium.

And like I said before, it should be easy enough to access this directly through from Tompkins St. And then again, all your parking staging will be within those contract limit lines, so.

That is all I have for the agenda. Do we have any other questions?

**EV** **Edward Visconti** 24:08

Yes, I do. The specs indicate a six foot high chain link fence around a construction site, but then it's also mentions a snow fence.

I assume do you do you want to chain link or can we use a snow fence? I'm just wondering what you would prefer.

**DY** **Dillon Young** 24:28

I would have to review that.

I'd have to tangle that question, but please follow up with a formal RFI on that. I mean, it's my, I believe that a snow fence is going to be fine.

But again, I just want to make sure we'll do that formally just so you guys can price it accordingly.

**EV** **Edward Visconti** 24:49

OK.

**DY** **Dillon Young** 24:54

Any other questions?

OK, if anybody does want to make a site visit, if it's beneficial for you to do that, just reach out to me and let me know when you're coming out and I can meet with you and take a look at the site if you want to see where the lacrosse wall was getting relocated to or.

RC access in and out of campus. Certainly feel free to come out and I'll meet with you

and we can take a look.

So but if nobody has any other questions.

**EV** **Edward Visconti** 25:26

I I'm sorry, I do have one more question regarding lacrosse wall. I couldn't find it on the drawings. Do they actually show where the new lacrosse wall is going on the drawings?

Yes.

**DY** **Dillon Young** 25:37

Yes.

**EV** **Edward Visconti** 25:38

Is it somewhere in the same field like around the parking area or is it? I'm just missing it I think so.

**DY** **Dillon Young** 25:42

It's to the.

**TB** **Tim Bonaparte** 25:43

I can. I mean, I could show you. It's on one of the plans, but if you look here, this is the the the lacrosse walls probably right here in this corner. It's gonna get relocated like up here on the other side of the baseball field.

**EV** **Edward Visconti** 25:58

OK. Thank you.

**DY** **Dillon Young** 26:01

Tim, do I just show the path quick from the project right out to Tompkins and I think that'll be the easiest for any trucking in and out. You hit Tompkins, that's a right-hand turn, so shouldn't get caught up in much traffic right there.

**TB** **Tim Bonaparte** 26:01

No problem.

Yeah.

Right here, yeah. So you can get this passage drive extension right to this project site. You don't have to go through to get all the way over to 281. You can get to Tompkins pretty easy.

 **Dillon Young** 26:27

Yeah.

All right. So if there aren't any more questions, thank you guys again. We appreciate your interest in this and look forward to the bids.

On the 15th. So thanks all.

 **Kristi Hughston** 26:40

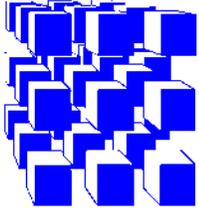
Thank you.

 **Tim Bonaparte** 26:42

Thank you.

Thank you.

 **Kristi Hughston** stopped transcription



**CME**  
Associates, Inc.

6035 Corporate Drive  
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(315) 701-0526 (Fax)  
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## Transmittal

November 11, 2025

Appel Osborne Landscape Architecture  
102 West Division Street, Suite 100  
Syracuse, New York 13204

Attn: Timothy D. Bonaparte, RLA, CPESC, LEED AP, Partner

**Re: SUNY Cortland Offset Parking Lot Project**  
**Cortland, New York**  
**CME Project No.: 28376-05**

Gentlepeople:

Attached you will find....

**Number of Copies**

1

**Report Number/Description**

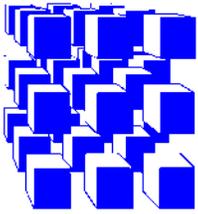
28376B-01-1125/Subsurface  
Exploration Data Report

This report was emailed to Timothy D. Bonaparte at [tbonaparte@appelosborne.com](mailto:tbonaparte@appelosborne.com) on 11/11/25.

Respectfully submitted,  
**CME Associates, Inc.**

Cecilia Gao  
Assistant to the Division Manager

CH.cg



**CME**  
Associates, Inc.

6035 Corporate Drive  
East Syracuse, New York 13057  
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[www.cmeassociates.com](http://www.cmeassociates.com)

November 11, 2025

Appel Osborne Landscape Architecture  
102 West Division Street, Suite 100  
Syracuse, New York 13204

Attn: Timothy D. Bonaparte, RLA, CPESC, LEED AP, Partner  
Email: [tbonaparte@appelosborne.com](mailto:tbonaparte@appelosborne.com)

Re: Subsurface Exploration Data Report  
SUNY Cortland Offset Parking Lot Project  
Cortland, New York  
Report No.: 28376B-01-1125  
Page 1 of 2

## 1.0 INTRODUCTION

CME Associates, Inc. (CME) was authorized by Appel Osborne Landscape Architecture (Client) to provide subsurface exploration services for the subject project. CME advanced two (2) Test Pits, conducted two (2) infiltration tests, and collected four (4) topsoil samples at the project site between October 9 and October 20, 2025.

The Scope of Basic Services and this report have been provided pursuant to the acceptance of CME Proposal/Agreement No. 05.8100 by Client. This report provides a summary of exploration activities conducted at the subject site.

## 2.0 EXPLORATION METHODOLOGY

Site Plans with approximate exploration locations were provided by Client and the exploration locations were then marked in the field by CME (See Attached Client Provided "Testing Locations" Map). Following the field mark out, CME contacted UDIG NY to clear public utilities.

GPS coordinates and elevations at the exploration locations were obtained by CME using handheld GPS survey equipment. GPS data is provided on the attached GPS Coordinates and Elevations Table. Exploration Location Plan ELP-1 is attached, which depicts the final exploration locations.

On October 17, 2025, two (2) Test Pits (TP-1 and TP-2) were excavated to an approximate depth of 7 feet. During the excavation of TP-1, a 4-inch diameter pipe was encountered at a depth of approximately 5 feet. Excavation activities were temporarily halted, and the appropriate notifications were made to SUNY Cortland staff. Following completion, the test pits were backfilled with the excavated material, and the surface was graded and raked to restore the site condition. Additionally, during backfilling, a 4-inch diameter infiltration test pipe was installed on a bench in each test pit at a depth of approximately 5 feet.



On October 9, 2025, four (4) topsoil samples were collected from across the site and composited into a single sample for pH and Nutrient Analysis. The composite sample was sent to Agro-One Agronomy Services at Cornell University. Please refer to the attached Agro-One Soil Analysis Report for test results.

On October 20, 2025, two (2) Infiltration Tests (IT-1 and IT-2) were performed at the test pit locations at a depth of 5 feet below grade. The Infiltration Tests were performed in general conformance with the New York State Stormwater Management Design Manual, Appendix D: Infiltration Testing Requirements. The test details and results are provided in the attached Infiltration Test Reports.

### **3.0 STANDARD OF CARE**

CME endeavored to conduct services identified herein in a manner consistent with that level of care and skill ordinarily exercised by members of the industry currently practicing in the same locality and under similar conditions as this project. No warranty, either expressed or implied, is made or intended by CME's proposal, contract, and written and oral reports, all of which warranties are hereby expressly disclaimed. CME shall not be responsible for the acts or omissions of Client, its contractors, agents and consultants. CME may rely upon information supplied by Client, its contractors, agents and consultants or information available from generally accepted reputable sources, without independent verification, and CME assumes no responsibility for the accuracy thereof.

### **4.0 CLOSING**

CME's services have been provided according to the requirements of the referenced CME Proposal/Agreement. No other representations, expressed or implied, are intended or made with respect to the information provided herein, and including but not limited to, its suitability for use by others.

Respectfully Submitted,  
**CME Associates, Inc.**

A handwritten signature in cursive script that reads "Camryn Holcombe".

Camryn Holcombe  
Staff Geologist

Reviewed By,  
**CME Associates, Inc.**

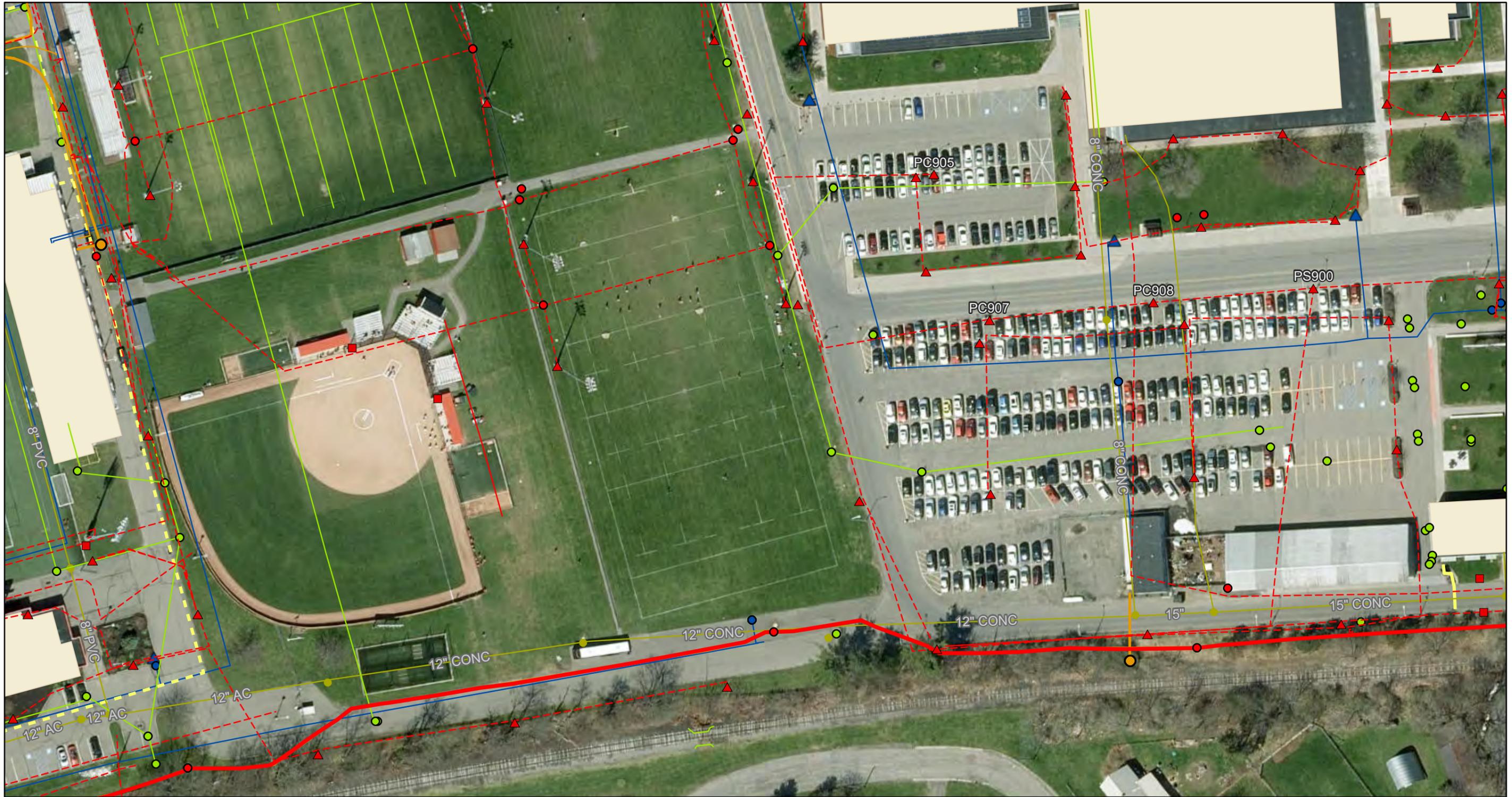
A handwritten signature in cursive script that reads "Mark J. Schumacher".

Mark J Schumacher, P.G.  
Drilling Division Manager

### **Attachment Listing:**

- Client Provided Testing Locations Maps (2 of 2)
- GPS Coordinates and Elevations (1 of 1)
- CME Exploration Location Plan - ELP-1 (1 of 1)
- Test Pit Logs – TP-1 through TP-2 (5 of 5)
- Infiltration Test Reports - IT-1 through IT-2 (2 of 2)
- Agro-One Soil Analysis Report (3 of 3)
- General Information & Key to Test Boring Logs (4 of 4)*

# SUNY Cortland Facilities Management

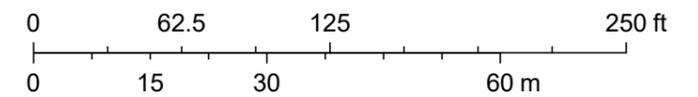


9/29/2025, 3:59:49 PM

1:908

- |                |                       |             |                |
|----------------|-----------------------|-------------|----------------|
| ■ Pullbox      | - - - Site Light Feed | — StormLine | ● WaterValve   |
| ▲ Lights       | ● Data_Holes          | ● SanStruct | ▲ WaterHydrant |
| ● ElectricHole | — FiberLine           | — SanLine   | — WaterLine    |
| ElectricLine   | — Coax                | GasLines    | ■ Buildings    |
| — Primary      | ● StormStruct         | — NYSEG     | World Imagery  |
| — Secondary    | - - - SUNY            |             |                |

- Low Resolution 15m Imagery
- High Resolution 60cm Imagery
- High Resolution 30cm Imagery
- Citations
- 30cm Resolution Metadata



New York State, Maxar, Microsoft



**CME Project No.: 28376-05**  
**GPS Coordinates and Elevations Table**  
**SUNY Cortland Offset Parking Lot Project**  
**Cortland, New York**

<b>TABLE 1</b>			
<b>Boring ID</b>	<b>Latitude</b>	<b>Longitude</b>	<b>Elevation (FT.)</b>
IT-1	42.58883034	-76.19912369	1150.7
IT-2	42.58873372	-76.19972456	1151.9
TS-1	42.58876389	-76.19921111	1151.3
TS-2	42.58871944	-76.19963056	1151.9
TS-3	42.58954167	-76.19945833	1150.9
TS-4	42.58947500	-76.19991944	1151.3

Notes:

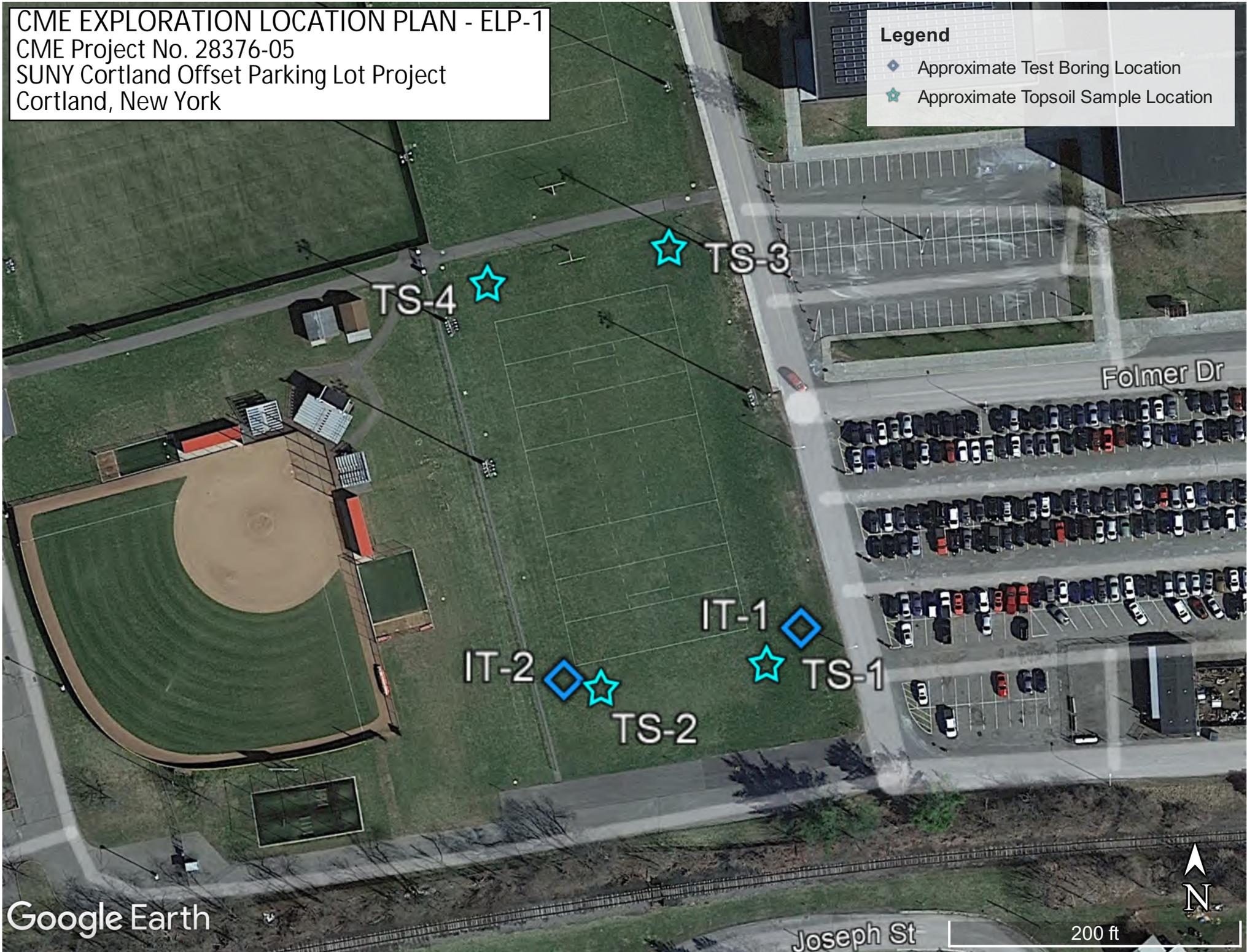
AMSL: Above Mean Sea Level

1. GPS coordinates and elevations were obtained utilizing GPS equipment.
2. NYSDOT CORS positions are based on North American Datum of 1983 (NAD 83).
3. Elevations are based on the North American Vertical Datum of 1988 (NAVD 88).

CME EXPLORATION LOCATION PLAN - ELP-1  
CME Project No. 28376-05  
SUNY Cortland Offset Parking Lot Project  
Cortland, New York

**Legend**

- ◆ Approximate Test Boring Location
- ☆ Approximate Topsoil Sample Location



Google Earth

Joseph St

200 ft





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**SUBSURFACE EXPLORATION  
 TEST PIT LOG**

<b>Test Pit No.</b>	<b>TP-1</b>
<b>Page No.</b>	1 of 3
<b>Report No.</b>	28376B-01-1125
<b>Date Started</b>	10/17/25
<b>Date Finished</b>	10/17/25
<b>Surface Elev.</b>	1043.356

**Project Name:** SUNY Cortland Offset Parking Lot Project, Cortland, New York  
**Client:** Appel Osborne Landscape Architecture  
**Location:** See Exploration Location Plan ELP-1

METHOD OF INVESTIGATION		GROUNDWATER OBSERVATIONS			
Operator:	Al Linstruth	Date	Time	Depth (Ft.)	Comment
<b>Inspector:</b>	Camryn Holcombe	10/17/2025	9:40		None Observed
<b>Equipment:</b>	CAT 416D				
<b>Type:</b>	Backhoe				
<b>Bucket Size:</b>	24"				

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%
		From	To			
0	S1	0.0	0.5	0.5	Topsoil and Organic Material (moist)	
1	S2	0.5	4.5		Brown COBBLES, little cmf GRAVEL, trace SILT, trace cmf SAND (moist)	
2						
3						
4						
5	S3	4.5	7.0	4.50	Brown COBBLES, some cmf GRAVEL, little cmf SAND, trace SILT (moist)	
6						
7				7.00	Bottom of Excavation @ 7.0'	
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

**Remarks:** 4" pipe found during excavation, 5' deep.

**SUBSURFACE EXPLORATION  
TEST PIT LOG**

<b>Boring No.</b>	<b>TP-1</b>
<b>Page No.</b>	2 of 3
<b>Report No.</b>	28376B-01-1125



**Photograph 1: Northern View of Test Pit TP-1**

**Remarks:**

**SUBSURFACE EXPLORATION  
TEST PIT LOG**

<b>Boring No.</b>	<b>TP-1</b>
<b>Page No.</b>	3 of 3
<b>Report No.</b>	28376B-01-1125



**Photograph 2: Western View of Test Pit TP-1**

**Remarks:** 4" Pipe found 5' down during excavation.



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**SUBSURFACE EXPLORATION  
 TEST PIT LOG**

<b>Test Pit No.</b>	<b>TP-2</b>
<b>Page No.</b>	1 of 2
<b>Report No.</b>	28376B-01-1125
<b>Date Started</b>	10/17/25
<b>Date Finished</b>	10/17/25
<b>Surface Elev.</b>	1151.89

**Project Name:** SUNY Cortland Offset Parking Lot Project, Cortland, New York  
**Client:** Appel Osborne Landscape Architecture  
**Location:** See Exploration Location Plan ELP-1

METHOD OF INVESTIGATION		GROUNDWATER OBSERVATIONS			
<b>Operator:</b>	Al Linstruth	<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Comment</b>
<b>Inspector:</b>	Camryn Holcombe	10/17/2025	10:40		None Observed
<b>Equipment:</b>	CAT 416D				
<b>Type:</b>	Backhoe				
<b>Bucket Size:</b>	24"				

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%
		From	To			
0	S1	0.0	0.5	0.5	Topsoil and Organic Material (moist)	
1	S2	0.5	3.0		Brown cmf GRAVEL, some SILT, little COBBLES, trace cmf SAND (moist)	
2						
3				3.00		
4	S3	3.0	7.0		Brown cmf GRAVEL, some COBBLES, little cmf SAND, trace SILT (moist)	
5						
6				7.00		
7					Bottom of Excavation @ 7.0'	
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

**Remarks:**

**SUBSURFACE EXPLORATION  
TEST PIT LOG**

<b>Boring No.</b>	<b>TP-1</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28376B-01-1125



**Photograph 3: View of Test Pit TP-2**

**Remarks:**



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### INFILTRATION TEST LOG

**Test ID:** IT-1  
**Project No.:** 28376-05  
**Date:** 10/20/25

Project:	SUNY Cortland Offset Parking Lot Project	Technician:	Camryn Holcombe
	Cortland, New York	Location:	See Exploration Location Plan, ELP-1
Client:	Appel Osborne Landscape Architecture	Surface Elev. (ft)	1150.7

#### TEST INFORMATION

Casing Installed in:  Test Pit  Borehole

Casing Diameter and Type: 4 inch I.D. PVC

A Existing Grade Elevation (ft): .....	<u>1150.7 ±</u>
B Casing Stickup Length Above Grade (ft): .....	<u>0.85</u>
C Top of Casing Elevation (ft): .....	(A+B)= <u>1151.6 ±</u>
D Depth to Bottom of Test Hole, Below Top of Casing (ft): .....	<u>5.85</u>
E Bottom of Test Hole Elevation: .....	(C-D)= <u>1145.7 ±</u>

Burmister Classification of Soil at Bottom of Hole: Brn COBBLES, some cmf GRAVEL, little cmf SAND, trace SILT  
 Thickness/Type of Scour/Sediment Protection Layer Installed: 3" of Pea Gravel

Date and Time Pre-Soaked: ..... 10/19/25 Time: 9:05

Depth to Water Level, Below Top of Casing  
 Just After Pre-Soak Filling (ft): 3.60  
 Just Prior to First Test Filling (ft): Dry @ 5.60 Date: 10/20/2025 Time: 10:04

#### TEST OBSERVATIONS

Run 1			Run 2			Run 3			Run 4		
Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)	Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)	Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)	Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)
10:05	0:00	3.60	10:08	0:00	3.60	10:11	0:00	3.60	10:13	0:00	3.60
10:06	0:01	Dry @ 5.60'	10:09	0:01	Dry @ 5.60'	10:12	0:01	Dry @ 5.60'	10:14	0:01	Dry @ 5.60'
	0:02			0:02			0:02			0:02	
	0:03			0:03			0:03			0:03	
	0:05			0:05			0:05			0:05	
	0:10			0:10			0:10			0:10	
	0:15			0:15			0:15			0:15	
	0:30			0:30			0:30			0:30	
	0:45			0:45			0:45			0:45	
	1:00			1:00			1:00			1:00	

#### TEST RESULTS

Run:	Run 1	Run 2	Run 3	Run 4
Infiltration Rate (feet/hour):	> 2.00	> 2.00	> 2.00	> 2.00
Infiltration Rate (inches/hour):	> 24.00	> 24.00	> 24.00	> 24.00

**Final Infiltration Rate (inches/hour):** > 24.00  Based on average of all four runs  
 Based on result of last run

#### Note(s)

1. Test performed in general conformance with NYS Stormwater Management Design Manual, Appendix D: Infiltration Testing Requirements.
2. IT-1 test pipe installed in Test Pit TP-1.



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### INFILTRATION TEST LOG

**Test ID:** IT-2  
**Project No.:** 28376-05  
**Date:** 10/20/25

Project:	SUNY Cortland Offset Parking Lot Project	Technician:	Camryn Holcombe
	Cortland, New York	Location:	See Exploration Location Plan, ELP-1
Client:	Appel Osborne Landscape Architecture	Surface Elev. (ft)	1151.9

#### TEST INFORMATION

Casing Installed in:  Test Pit  Borehole

Casing Diameter and Type: 4 inch I.D. PVC

A Existing Grade Elevation (ft): .....	<u>1151.9 ±</u>
B Casing Stickup Length Above Grade (ft): .....	<u>0.75</u>
C Top of Casing Elevation (ft): .....	(A+B)= <u>1152.7 ±</u>
D Depth to Bottom of Test Hole, Below Top of Casing (ft): .....	<u>5.75</u>
E Bottom of Test Hole Elevation: .....	(C-D)= <u>1146.9 ±</u>

Burmister Classification of Soil at Bottom of Hole: Brn cmf GRAVEL, some COBBLES, little cmf SAND, trace SILT  
 Thickness/Type of Scour/Sediment Protection Layer Installed: 3" of Pea Gravel

Date and Time Pre-Soaked: ..... 10/19/25 Time: 9:00

Depth to Water Level, Below Top of Casing  
 Just After Pre-Soak Filling (ft): 3.50  
 Just Prior to First Test Filling (ft): Dry @ 5.50 Date: 10/20/2025 Time: 10:04

#### TEST OBSERVATIONS

Run 1			Run 2			Run 3			Run 4		
Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)	Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)	Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)	Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)
10:25	0:00	3.50	10:31	0:00	3.50	10:42	0:00	3.50	10:53	0:00	3.50
10:26	0:01	5.00	10:32	0:01	4.50	10:43	0:01	5.00	10:54	0:01	4.40
10:27	0:02	5.40	10:33	0:02	5.10	10:44	0:02	5.25	10:55	0:02	5.00
10:28	0:03	5.40	10:34	0:03	5.20	10:45	0:03	5.30	10:56	0:03	5.40
10:30	0:05	Dry @ 5.50'	10:36	0:05	5.45	10:47	0:05	5.40	10:58	0:05	5.45
	0:10		10:41	0:10	Dry @ 5.50'	10:52	0:10	Dry @ 5.50'	11:03	0:10	Dry @ 5.50'
	0:15			0:15			0:15			0:15	
	0:30			0:30			0:30			0:30	
	0:45			0:45			0:45			0:45	
	1:00			1:00			1:00			1:00	

#### TEST RESULTS

Run:	Run 1	Run 2	Run 3	Run 4
Infiltration Rate (feet/hour):	> 2.00	> 2.00	> 2.00	> 2.00
Infiltration Rate (inches/hour):	> 24.00	> 24.00	> 24.00	> 24.00

**Final Infiltration Rate (inches/hour):** > 24.00  Based on average of all four runs  
 Based on result of last run

#### Note(s)

1. Test performed in general conformance with NYS Stormwater Management Design Manual, Appendix D: Infiltration Testing Requirements.
2. IT-2 test pipe installed in Test Pit TP-2.

**Soils Analysis Report**  
with Agro-One Nutrient Guidelines  
generated by Cornell University

Dairy One  
730 Warren Road  
Ithaca, NY 14850

Phone: (800) 344-2697  
Fax: (607) 257-1350  
www.dairyone.com



Lab Sample ID:	75924030
Field/Location:	28376 TS-COM
Date Sampled:	None
Date Tested:	2025-10-27
Statement ID:	SUNY CORTLAND
Description:	
County ID:	Cortland

Element	lbs/acre*	Very Low	Low	Optimal	High	Very High
Phosphorus (P)	57 High	[Bar chart showing 57 lbs/acre in the High range]				
Potassium (K)	260 High	[Bar chart showing 260 lbs/acre in the High range]				
Magnesium (Mg)	446 Very High	[Bar chart showing 446 lbs/acre in the Very High range]				
Calcium (Ca)	7125 Very High	[Bar chart showing 7125 lbs/acre in the Very High range]				

Element	Value	Element	Value	Element	Value
Soil pH	7.08	Manganese (Mn), lbs/acre	12.58	%OM	6.54
Buffer pH	0.0	Zinc (Zn), lbs/acre	1.56		
Iron (Fe)	9.57	Aluminum (Al), lbs/acre	30.21		

Crop History (1 = last year, etc.)	Sample Information Summary
	Soil Name: Honeoye Tillage Depth: Not specified Drainage: Poor
	Crop Code: LAW Type: Maintenance % Legumes: Not specified

**Soil Fertilizer Recommendations**  
(1=current yr, 2=next yr, etc.)

lbs/1,000 sq. ft.

Year	Crop	Lime	N Range	P205 Range	K20
1	Lawn or Turf	0	0	0	0

**Comments - Improve yield and plant quality as well as protect the environment with proper fertilization.**

\*Morgan analysis results reported in pounds per acre.

Nutrient recommendations provided by Cornell University.

For assistance interpreting your report, contact your local Cooperative Extension office.

See <http://cce.cornell.edu/Pages/Default.aspx> for a complete list of Cornell Cooperative Extension offices.

Yr1 After the grass seed has germinated, apply 0.4 pound of soluble nitrogen per 1,000 sq. ft. of lawn or up to 1 pound of total nitrogen per 1,000 sq. ft. with fertilizers with at least 60% slow release nitrogen. If in 4 to 6 weeks the lawn is not thick with grass plants and before November 1st you may

**Soils Analysis Report**  
with Agro-One Nutrient Guidelines  
generated by Cornell University

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730 Warren Road  
Ithaca, NY 14850

Phone: (800) 344-2697  
Fax: (607) 257-1350  
www.dairyone.com



make another application at the same rate. If it is after November 1st wait until mid-May to make this fertilizer application. See the next page or go to <https://gardening.cals.cornell.edu/garden-guidance/healthysoil/> for information on fertilizing established lawns.

Yr1 Soil P level is high. Do not apply any fertilizer that contains phosphorus.

Yr1 Soil K level is high. Do not apply any fertilizer that contains potassium.

Yr1 Soil pH is in the normal range. Lime is not needed.

Yr1 Nutrient levels are high. Only nitrogen is needed.

Yr1 The NYS Nutrient Runoff Law (January 2012) restricts the application of fertilizers containing more than 0.67% phosphate (P<sub>2</sub>O<sub>5</sub>) on lawns except at the time of establishment or if a soil test indicates the need.

Yr1 Recommend re-testing soil every 2 years.

**Soils Analysis Report**  
with Agro-One Nutrient Guidelines  
generated by Cornell University

Dairy One  
730 Warren Road  
Ithaca, NY 14850

Phone: (800) 344-2697  
Fax: (607) 257-1350  
www.dairyone.com



**DISCLAIMER:** The guidance provided in this report (the "Guidance") is derived using input information supplied by the client, soil test results generated by DairyOne, and the Cornell Plant Nutrient Guidelines for New York State crops and soils. The Guidance assumes the following: 1) accurate identification of the soil type by the client submitting the sample, and 2) soil is sampled within New York State. The Guidance is provided without warranty. Following the Guidance does not assure compliance with any applicable law, rule, regulation or standard or guarantee crop success. DairyOne is solely responsible for the accuracy of all soil tests. Cornell University is not responsible for any recommendations made by DairyOne. The Cornell Plant Nutrient Guidelines are available to the public, without warranty, and reflect the interpretation of data available at the time of guidance issuance.

## GENERAL INFORMATION & KEY TO TEST BORING LOGS

The **Subsurface Exploration – Test Boring Logs** produced by **CME Associates, Inc.** (CME) present observations and mechanical data collected by the CME Drill Crew while at the site, supplemented, at times, by classification of the materials removed from the borings determined through visual identification by technicians in the laboratory. It is cautioned that the materials removed from the borings represent only a fraction of the total volume of the deposits at the site and may not necessarily be representative of the subsurface conditions between adjacent borings or between the sampled intervals. The data presented on the Exploration Logs together with the recovered samples will provide a basis for evaluating the character of the subsurface conditions relative to the proposed construction. The evaluation must consider all the recorded details and their significance relative to each other. Often, analyses of standard boring data indicate the need for additional testing and sampling procedures to more accurately evaluate the subsurface conditions. Any evaluations of the contents of CME's report and the recovered samples must be performed by Licensed Professionals having experience in Soil Mechanics, Geological Sciences and Geotechnical Engineering. The information presented in this Key defines some of the methods, procedures and terms used on the CME Exploration Logs to describe the conditions encountered. Refer to the Log on page 4 for key number.

### Key No.

### Description

1. The figures in the **DEPTH (ft)** column define the vertical scale of the Boring Log.
2. The **SAMPLE #** column is used for identification on the sample containers and in the Laboratory Test Report or Summary.
3. The **SAMPLE INTERVAL (ft)** column gives the depth range from which a sample was recovered.
4. The **SAMPLE / RECOVERY (in)** columns are used to signify the various types of samples. "SS is Split Spoon, "U" is Undisturbed Tube, and "C" is Rock Core. For soil and rock samples, the recovered length of the sample is recorded in inches.
5. **BLOWS ON SAMPLER per 6 inches** – This column shows the results of the "Standard Penetration Test (SPT) ASTM D1586", recording the number of blows required to drive a 2-inch outside diameter (O.D.) split spoon sampler into the ground beneath the casing. The number of blows required for each six inches of penetration is recorded. The total number of blows required for the 6-inch to 18-inch interval is summarized in the **SPT "N"** column and represents the "Standard Penetration Number". The outside diameter of the sampler, the hammer weight and the length of drop are noted in the **Methods of Investigation** portion of the log. A "WH" or "WR" in this column indicates that the sample spoon advanced a 6-inch interval under the **Weight of Hammer + Rod** or **Weight of Rod**, respectively. If a rock core sample is taken, the core bit size designation is given here.
6. **SOIL AND ROCK DESCRIPTION** – Soil materials sampled and recovered are described by the Driller or Geotechnical Representative on the original field log. Notes of the Drillers observations are also placed in this column. Recovered samples may also be visually classified by a Geologist, Engineer, or Soil Technician. Visual soil classifications are made using a modified **Burmister System** as practiced by CME and as generally described in this Key and abbreviated on the Test Boring Log. This modified **Burmister System** is a type of visual-manual textural classification estimated by the Driller, Geologist, Engineer, or Technician on the basis of weight-fraction of the recovered material and estimated plasticity, among other characteristics. See Table 1 "**Classification of Materials**". The description of the relative compactness or consistency is based upon the standard penetration number as defined in Table 2. The description of the recovered sample moisture condition is described as dry, moist, wet, or saturated. Water used to advance the boring may affect the moisture content of the recovered sample. Special terms may be used to describe recovered materials in greater detail, such terms are listed in ASTM D653. When sampling gravelly soils with a standard two-inch O.D. Split Spoon, the true percentage of gravel is often not recovered due to the relatively small sampler diameter. The presence of boulders, cobbles, and large gravel is sometimes, but not necessarily, detected by observation of the casing advancement and sampler blows and/or through the "action" of the drill rig, sampler and/or casing as reported by the Driller.

The description of **Rock** is based upon the recovered rock core. Terms frequently used in the description are included in Tables 3, 4 and 5. The length of core run is defined as length of penetration between retrievals of the core barrel from the bore hole, expressed in inches. The core recovery expresses the length of core recovered from the core barrel per core run, in percent. The size core barrel used is noted in Column 5. An "N" size core, being larger in diameter than "A" size core, often produces better recovery, and is frequently utilized where accurate information regarding the geologic conditions and engineering properties is needed. An estimate of in-situ rock quality is provided by a modified core recovery ratio known as the "**Rock Quality Designation**" (**RQD**). This ratio is determined by considering only pieces of core that are at least 4 inches long and are hard and sound. Breaks obviously caused by drilling are ignored. The percentage ratio between the total length of such core recovered and the length of core drilled on a given run is the RQD. Table 4 indicates in-situ rock quality as related to the **RQD**.

7. The **N-VALUE** and **% RQD** is given in these columns as applicable to the specific sample taken. In Very Compact coarse-grained soils and in Hard fine-grained soils the N-value may be indicated as 50+ or 100+. This typically means that the blow count was achieved prior to driving the sampler the entire 6-inch interval or the sampler refused further penetration. For an "N" size rock core, the RQD is reported here, expressed in percent (%).
8. **GROUNDWATER OBSERVATIONS** and timing noted by the Drill Crew are shown in this section. It is important to realize that the reliability of the water level observations depend upon the soil type (e.g. water does not readily stabilize in a hole through fine grained soils), and that drill water used to advance the boring may have influenced the observations. Groundwater levels typically fluctuate seasonally so those noted on the log are only representative of that exhibited during the period of time noted on the log. One or more perched or trapped water levels may exist in the ground seasonally. All the available resources and data should be evaluated. If definite conclusions cannot be made, it is often prudent to examine the conditions more thoroughly through test pit excavations or through groundwater observation well installations.
9. **METHODS of INVESTIGATION** provides pertinent information regarding the identity of the Drill Crew members, inspector (if any), drill rig make and model, drill rig mount vehicle, casing and type of advancement, soil and rock sampling tools and appurtenances used in the installation of the Test Boring.

<b>TABLE 1 - CLASSIFICATION OF MATERIALS</b>	
<b>GROUP</b>	<b>COARSE GRAINED SOILS TEXTURAL SIZES</b>
BOULDERS	larger than 12" diameter
COBBLES	12" diameter to 3" sieve
GRAVEL	3" - coarse - 1" - medium - 1/2" - fine - #4 sieve
SAND	#4 - coarse - #10 - medium - #40 - fine - #200 sieve
<b>GROUP</b>	<b>FINE GRAINED SOILS SIZE (PLASTICITY*)</b>
SILT	#200 sieve (0.074mm) to 0.005mm size (see below *)
CLAY	0.005mm size to 0.001 mm size (see below *)
<b>GROUP</b>	<b>ORGANIC SOILS, PEAT, MUCK, MARL</b>
ORGANIC	Based on smell, visual-manual and laboratory testing

<b>ABBREVIATIONS</b>	<b>TERM</b>	<b>ESTIMATED PERCENT OF TOTAL SAMPLE BY WEIGHT</b>
<b>f</b> - fine	and	35 to 50%
<b>m</b> - medium	some	20 to 35%
<b>c</b> - coarse	little	10 to 20%
	trace	0 to 10%

<b>*PLASTICITY DESCRIPTIONS and INDICATOR FIELD TESTS</b>			
<b>TERM</b>	<b>PLASTICITY INDEX</b>	<b>DRY STRENGTH TEST</b>	
		<b>INDICATION</b>	<b>FIELD TEST RESULT</b>
non-plastic	0 - 3	Very low	falls apart easily
slightly plastic	4 - 15	Slight	easily crushed by fingers
plastic	15 - 30	Medium	difficult to crush
highly plastic	31 or more	High	impossible to crush with fingers
Other Field Tests include: Dilatancy, Thread and Shine Testing			

**TABLE 2 - DESCRIPTION OF SOIL COMPACTNESS OR CONSISTENCY based on SPT "N"\***

Primary Soil Type	Descriptive Term of Compactness	Range of Standard Penetration Resistance (N)
<b>COARSE GRAINED SOILS</b>	Very Loose	less than 4 blows per foot
(More than half of Material is larger than No. 200 sieve size)	Loose	4 to 10
	Medium Compact	10 to 30
	Compact	30 to 50
	Very Compact	Greater than 50
<b>FINE GRAINED SOILS</b>	<b>Descriptive Term of Consistency</b>	<b>Range of Standard Penetration Resistance (N)</b>
(More than half of material is smaller than No. 200 sieve size)	Very Soft	less than 2 blows per foot
	Soft	2 to 4
	Medium Stiff	4 to 8
	Stiff	8 to 15
	Very Stiff	15 to 30
	Hard	Greater than 30

\*The number of blows of 140-pound weight falling 30 inches to drive a 2-inch O.D., 1-3/8 inch I.D. sampler 12 inches is defined as the Standard Penetration Resistance, designated "N".

**TABLE 3 - ROCK CLASSIFICATION TERMS**

Rock Classification Terms	Field Test or Meaning of Term
<b>Hardness</b>	Soft Scatched by fingernail. Crumbles under firm blows with a geologic pick.
	Medium Soft Shallow indentations (1 to 3 mm) can be made by firm blows of a geologic pick. Can be peeled with a pocketknife with difficulty.
	Medium Hard Scatched distinctly by penknife or steel nail. Can't be peeled or scraped with knife.
	Hard Scatched with difficulty by penknife or steel nail. Requires more than one blow with a geologic hammer to break it
	Very Hard Cannot be scratched by penknife or steel nail. Breaks only by repeated heavy blows with a geologic hammer.
<b>Bedding</b> (Divisional planes and/or surfaces separating it from layers above and below)	Thinly Laminated less than 1/8 <sup>th</sup> inch
	Laminated 1/8 <sup>th</sup> to 1 inch
	Thinly Bedded 1 inch to 4 inches
	Medium Bedded 4 inches to 12 inches
	Thickly Bedded 12 inches to 48 inches
	Massive greater than 48 inches

**TABLE 4  
Relation of Rock Quality Designation (RQD) and in-situ Rock Quality**

RQD %	Rock Quality Term Used
90 to 100	Excellent
75 to 90	Good
50 to 75	Fair
25 to 50	Poor
0 to 25	Very Poor

**TABLE 5 – BEDROCK WEATHERING CLASSIFICATION**

Classification	Diagnostic Features
Fresh	No visible sign of decomposition or discoloration. Rings under hammer impact.
Slightly Weathered	Slight discoloration inwards from open fractures, otherwise similar to Fresh.
Moderately Weathered	Discoloration throughout. Strength somewhat less than fresh rock but cores cannot be broken by hand or scraped with knife. Texture observed.
Highly Weathered	Most minerals somewhat decomposed. Specimens can be broken by hand with effort or shaved with knife. Core stones present in rock mass. Texture becoming indistinct but fabric preserved.
Completely Weathered	Minerals decomposed to soil, but fabric and structure preserved (e.g. Saprolite). Specimens easily crumbled or penetrated.
Residual Soil	Advanced state of decomposition resulting in plastic soils. Rock fabric and structure completely destroyed. Large volume change.

		<b>SOIL BORING NUMBER: B-1</b> <small>PAGE 1 OF 1</small>																		
		<b>PROJECT INFORMATION</b>		<b>METHODS OF INVESTIGATION</b>																
Project Number: _____ Project Name: _____ Project City, State: _____ Client Name: _____ Driller: _____ Inspector: _____		Rig Type: _____ Rig: <b>9</b> Hammer Type: _____ Hammer Weight: _____ Drilling Method: _____ Sampler Type: _____ Sampler O.D.: _____ Rock Core Method: _____ Backfill: _____ Tooling: _____																		
<b>BORING INFORMATION</b>		<b>GROUND WATER OBSERVATIONS</b>																		
Dates Drilled: _____ Latitude: _____ Longitude: _____ Surface Elevation: _____ Cave w/Casing Out: _____		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Date</th> <th>Depth</th> <th>Casing Depth</th> <th>Status</th> </tr> </thead> <tbody> <tr> <td></td> <td style="text-align: center;"><b>8</b></td> <td style="text-align: center;"><b>8</b></td> <td style="text-align: center;">While Drilling</td> </tr> <tr> <td></td> <td></td> <td></td> <td style="text-align: center;">Before Casing Removed</td> </tr> <tr> <td></td> <td></td> <td></td> <td style="text-align: center;">After Casing Removed</td> </tr> </tbody> </table>	Date	Depth	Casing Depth	Status		<b>8</b>	<b>8</b>	While Drilling				Before Casing Removed				After Casing Removed		
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	<b>8</b>	<b>8</b>	While Drilling																	
			Before Casing Removed																	
			After Casing Removed																	
Depth (ft) 1 2 3	Graphic Log	<b>SOIL AND ROCK DESCRIPTION</b>			<b>FIELD DATA</b>															
<b>1</b>		<b>6</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>4</b>	<b>5</b>	<b>7</b>	<b>7</b>											

# SUNY Cortland

## Professional Studies Parking Lot Replacement

Project No. 20240058

### **Specifications N.I.C. (Included for Coordination Only)**

260000	General Requirements for Division 26
260519	Wires
260526	Grounding and Bonding
260543	Underground Conduit System
260553	Electrical Identification
265113	Lighting

### **Bid Specifications**

<b>311201</b>	<b>Site Preparation</b>
312201	Site Earthwork
312501	Erosion, Sediment, and Pollution Control
321201	Asphalt Paving
321202	Inlaid Thermoplastic Asphalt Pavement Marking System
321301	Site Concrete Work
321601	Granite Curb
323001	Bus Shelter(s)
323002	Traffic Signs
329001	Planting
329201	Sodded Lawns
334001	Storm Drainage

### **Drawing N.I.C. (Included for Coordination Only)**

E900	Schedule and Symbols
ED100	Site Plan – Lighting Removals
ES100	Site Plan - Lighting

### **Bid Drawing List**

L0	Site Survey
L1	Site Plan Notes
L2	Site Preparation Plan
L3	Stormwater Pollution Prevention Plan
L4	SWPPP Notes and Details
L5	Grading, Drainage, and Utility Plan
L6	Layout Plan
L7	Site Details
L8	Site Details
L9	Lacrosse Wall Relocation Plan

## SECTION 311201 - SITE PREPARATION

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

The general provisions of the Contract, including General and Supplementary Conditions and General Requirements (if any), apply to the work specified in Division 31, 32 and 33.

#### 1.2 DESCRIPTION OF WORK

- A. The extent of site preparation is shown on the drawings.
- B. Site preparation work includes, but is not limited to, the following:
  - 1. Site investigation and underground utility identification (GPR)
  - 2. Protection of existing trees, shrubs, and lawns to remain
  - 3. Topsoil stripping and stockpiling on site (See Section 329201)
  - 4. Site clearing and removals
  - 5. Temporary construction fences and gates
  - 6. Saw cutting
  - 7. Relocations/salvaged materials
  - 8. Clean up
- C. Provide materials, labor, equipment, and services required to accomplish related work in accordance with the drawings and specifications.

#### 1.3 RELATED WORK SPECIFIED ELSEWHERE

- A. Section 312201 - Site Earthwork
- B. Section 329201 – Sodded Lawns
- C. Section 334001 - Storm Drainage

#### 1.4 SITE INVESTIGATION

- A. A site visit before bidding is recommended so the Contractor can inform and familiarize themselves of all site conditions, including but not limited to, site topsoil, sub-soil, subsurface and groundwater conditions affecting proposed work.
- B. Verify locations and protect utilities and structures, whether or not shown on the drawings. Existing utilities and structures shown on the drawings are for the Contractor's convenience and locations are not guaranteed.
- C. Verify survey information given on drawings. Walk the site with the Owner's Representative to discuss approximate locations of reputed utilities shown and not shown on the survey, prior to performing work. The Contractor shall provide and perform Ground Penetrating Radar (GPR) utility location prior to performing any excavation. Notify the Architect of any and all discrepancies prior to commencing any work. Commencement of any work will be construed as complete acceptance of survey information.
- D. Contractor shall provide Test Pits at all connection points at existing utilities and at all utility crossings to verify utility locations, size, type, invert, and elevations PRIOR to ordering and taking delivery of materials for construction. Notify the Architect and Owner

of finding immediately. Contractor shall furnish all labor and materials to accomplish at no additional cost to the Owner.

- E. Locate and protect from disturbance existing survey monuments, pins, markers, and benchmarks whether or not shown on drawings. When any disturbance or damage occurs, notify Architect in writing within 24 hours. Describe nature of disturbance or damage and date first occurred. Provide copies to applicable government and municipal agencies. Pay costs for restoring monument to satisfaction of said agencies, at no additional expense to the Owner.

## 1.5 JOB CONDITIONS

- A. The terms "Architect" and "Landscape Architect" for Divisions 31, 32 and 33 work shall mean Appel Osborne Landscape Architecture, 102 West Division St., Suite 100, Syracuse, NY 13204, Tel. (315) 476-1022. or other representative(s) that SUNY Cortland may determine.
- B. Examine drawings and specifications for the entire project. Become familiar with the scope and sequencing of work required. Coordinate and cooperate with other Contractors and trades working in and adjacent to the project.
- C. Examine work prepared prior to this contract. Commencement of work will be construed as complete acceptance of all preparatory work by others.
- D. Obtain and pay for permits required by authorities. Perform the work in compliance with applicable standards, codes and requirements of governing authorities having jurisdiction.
- E. Safety is the sole responsibility of the Contractor.
- F. Burning on site and use of explosives are not permitted.
- G. Responsibility for existing utilities:
  - 1. Contact Dig Safely New York at least two (2) full working days, and not more than ten (10) working days, before digging begins or as required by latest state law. Locate by hand excavation and provide protection from damage to existing utilities to remain in the area. (Tel. 811)
  - 2. Existing utilities encountered within excavated areas shall be supported, blocked and/or braced in a manner approved by the owner of the utility. Leave supports in place to the extent required by the owner of the utility.
  - 3. Should uncharted or incorrectly charted utilities be encountered, notify the Architect immediately for directions as to procedure.
  - 4. Do not break utility connections without providing temporary services as acceptable to the Architect and the owner of the utility.
  - 5. Repair and pay for damages to existing utilities as directed by utility Owner at no additional cost to the Owner.
  - 6. Cap ends of utilities to be abandoned or removed in accordance with regulatory agencies and as directed by the Architect.

- H. Provide protections and conduct operations to prevent injury and damage to persons, work of other Contractors, existing items to remain, structures, pavements, lawns, and adjacent properties.
- I. Restore work damaged by this Contractor inside and outside the contract limits to the condition existing prior to the start of work, unless otherwise directed, to the satisfaction of the Architect at no additional cost to the Owner.
- J. Vehicular and pedestrian traffic control:
  - 1. Maintain vehicular and pedestrian traffic during construction activities.
  - 2. Provide alternate routes and traffic control around closed and obstructed traffic ways as required by governing regulations or the Owner.
  - 3. Provide temporary fencing, flagpersons, barricades, warning signs, and warning lights or other measures to protect the public and cause the least interruption of work.
- K. Field Measurements: Take necessary field horizontal and vertical measurements required in order to perform the work and design intent shown on the drawings and outlined in the specifications. Assume complete responsibility for accuracy of such measurements and dimensions.
- L. Removal of spoils, dust control, debris, snow and clean up:
  - 1. Control air pollution caused by dust and dirt; comply with governing regulations. Water to control dust when necessary and as directed by the Architect or Certified Erosion Control Specialist. Provide water sprinkling materials, equipment and labor to prevent the nuisance of dust to the surrounding areas.
  - 2. Legally dispose of removed and demolished items, including trash and debris, off the Owner's property, at a licensed disposal facility having adequate capacity to accept the project's waste.
  - 3. Burning of combustible materials on the site is not permitted.
  - 4. During the contract and at intervals as directed by the Architect, clear the site of extraneous materials, rubbish, construction waste, and debris. Leave the site in a clean, safe, neat, well-draining condition.
  - 5. Soil and Snow Removal: Sweep roads, access ways, paved areas, and parking areas where soil, mud and debris have dropped or tracked from construction and delivery vehicles on a daily basis and as directed by the Architect or Certified Erosion Control Specialist. Remove snow and ice from roads, access ways, paved areas and parking areas utilized for site construction purposes.
  - 6. Spoils: Remove from site and dispose when not required for fill or determined to be unsatisfactory soil material per Section 312201 - Site Earthwork.
- M. Construction Review - General: Site visits will be made by the Architect to observe construction conformance to drawings and specifications. The occasional site visits by the Architect shall not be construed as supervision of construction or make them responsible for the safety programs and precautions, including but not limited to: the safe access, visit, use, work travel, or occupancy of any person. Site visits shall not make the

Architect responsible for means, methods, techniques, sequences or procedures of construction selected by the Construction Manager, Contractor or his Sub-contractors.

- N. Site Complexity: The existing site will be intensively developed. Because of the construction and resulting graphic complexity, it is impractical to show every detail. However, the general design intent is clearly shown and shall be applied to individual conditions not specifically shown as directed by the Architect and at no additional cost to the Owner.
- O. Asbestos, Toxic and Hazardous Materials: The Division 31, 32 and 33 site work contract does not include testing for, handling or removal of hazardous materials such as, but not limited to: asbestos, fuel, oil, PCB's, or other toxic or hazardous waste materials as identified by the EPA and/or NYSDEC. If any such materials are encountered during any part of the site work, the Contractor is responsible for identifying potential hazardous material and immediately notify all governing agencies having jurisdiction as required by law. Also, within one (1) hour of discovery notify the Architect, Landscape Architect, Consultants, and Owner. The Owner shall provide testing and removal by others, under separate contract. The Contractor shall recommence work under this contract when the Owner provides written certification that remediation is complete per governing agency. The Contractor shall not be penalized for any delays caused by the hazardous testing and removal, unless such hazardous material incident was a result of Contractor's operations. The Contractor shall indemnify and hold harmless the Architect, Landscape Architect, Consultants and Owner, agents, and employees from and against all claims, damages, losses and expenses, direct and indirect or consequential damages, including but not limited to fees and charges of attorneys and court and arbitration costs, arising out of or resulting from the performance of the work by the Architect, Landscape Architect, Consultants and Owner, or claims against the Architect, Landscape Architect, Consultants and Owner arising from the work of others, related to hazardous waste.

The above indemnification provision extends to claims against the Architect, Landscape Architect, Consultants and Owner which arise out of, are related to, or are based upon, the dispersal, discharge, escape, release or saturation of smoke, vapors, soot, fumes, acids, alkalis, toxic chemicals, or pollutant in or into the atmosphere, or on, onto, upon, in or into the surface or subsurface soil, water or water courses, objects, or any tangible or intangible matter, whether sudden or not.

Should the hazardous material incident be the result of the Contractor's operations, the Contractor shall be responsible for all costs associated with the discovery and remediation of such hazardous material such as, but not limited to: testing, consultant fees, damage, loss, fees and charges of attorneys, court and arbitration costs, claims by other contractors, direct and indirect or consequential damages.

- P. Salvageable Items: Remove at any time after work starts. Storage or sale on site of salvageable and removed items is not permitted. Do not remove topsoil from site without written permission from the Owner.

#### 1.6 SUBMITTALS:

- A. Provide photographic documentation. Photographically document existing features which, may be affected by the construction, inside and outside the contract limit line. Existing features include, but are not limited to: structures, pavements, curbs, utilities, lawns and vegetation, especially individual trees which are over six (6") inches in diameter and noted to remain on the drawings. Also, particular attention shall be paid to the construction access, stockpile and haul road areas. Distribute a copy of the

photographic documentation (digital format) to the Owner and Architect prior to the start of construction.

- B. Temporary Chain Link Fence and Gates Manufacturer's Product Data (MPD).

## PART 2 - PRODUCTS Updated by Addendum 1- 1/5/2026

### ~~2.1 TEMPORARY CHAIN LINK FENCE AND GATES~~

- ~~A. Shall be new or good quality 6'-0" height galvanized chain link fence and gates.~~
- ~~B. Layout of temporary fencing and gates shall be completed to surround the entire site with temporary fencing as directed by the Owner to prevent student access to the project site.~~

### 2.2 PLASTIC FENCE

- A. Shall be new or good quality used 4'-0" high heavy duty orange plastic fence NC450.
- B. Posts shall be new or good quality U-channel posts to hold plastic fence.

### 2.3 OTHER PROTECTIVE DEVICES

- A. Shall include, but not be limited to; wood planks, rubber mats, barriers, lights, barricades, coverings, traffic controls, steel plates, and other temporary protections.
- B. Contractor to provide all necessary protections required by Occupational Safety and Health Administration (OSHA).

## PART 3 - EXECUTION

### 3.1 PROTECT EXISTING VEGETATION TO REMAIN

- A. Prior to commencing site preparation work, notify Architect, and meet on site to locate existing trees, lawns and vegetation which are to remain.
- B. Protect and keep existing vegetation to remain free from physical damage. Keep in a healthy, vigorous growing condition for the entire construction period as follows:
  - 1. Keep site disturbance and staging limits to a minimum. Obtain approval from Owner for material and equipment storage areas. Limit access points and routes to the project site. Coordinate site access with other trades and contractors on the work site.
  - 2. Groups of Trees and Vegetation: Place orange plastic construction fencing around drip line(s) of trees and plant beds as detailed or directed by the Architect. Do not store materials, run equipment, park vehicles, or otherwise disturb area within the drip line (full canopy of tree) or in plant beds.
  - 3. Specimen and Individual Trees: Protect each as noted and detailed. Do not store materials, run equipment, park vehicles or otherwise disturb area within the drip line (full canopy of tree).
- C. Rejuvenate damaged vegetation by pruning watering, fertilizing, staking and other methods as directed by the Architect. Replace trees and other vegetation that cannot be

restored to full growth with comparable size, quantity, quality and species as determined by the Architect.

- D. Repair lawns disturbed due to construction operations outside the grading limits, as specified and directed by the Architect. Provide screened topsoil, seed, and mulch over damaged lawn areas, access ways or where tire rutting occurred.

### 3.2 TOPSOIL STRIPPING AND STOCKPILING ON SITE

- A. Strip full depth of existing topsoil from areas to be regraded, paved, or otherwise built upon. When amount of available topsoil exceeds what is indicated in geo-tech/boring report, on site test pits, or Contractor assumed depth, continue to remove all topsoil and lower the paved or built element subgrade. Place additional satisfactory earth fill in uniform depths as indicated in the Site Earthwork Section 312201. Maintain finished grades as shown on the drawings. This work shall be done at no additional cost to the Owner.
- B. Minimum quantity of topsoil shall be as needed to provide five (5") inches settled depth on lawn areas. Verify quality and quantity. Supply imported topsoil when amount of available topsoil meeting above requirements is less than what is required for the proposed lawn areas. See Section 329201 for imported topsoil requirements.
- C. When amount of available topsoil meeting above requirements exceeds what is required for the proposed lawn areas, haul and dispose of additional topsoil offsite. Maintain finish grades as shown on the drawings. This work shall be performed and supplied at no additional cost to the Owner.
- D. Topsoil shall be well drained, homogeneous texture soil of uniform grade, without the admixture of subsoil material. Topsoil shall be free of dense material, hardpan, and stone over three-quarters (3/4") inch in diameter, and other objectionable foreign material including, but not limited to, brick, concrete, asphalt, glass, nails, screws, toxins, hazardous wastes and chemicals (such as, but not limited to, atrizene and muriatic acid) that may be injurious to humans, animals and plant materials.
- E. Stockpile on site in a location as directed by the Owner. Provide all hauling as necessary. Do not mix topsoil stockpiles with other materials. Stabilize and maintain all stockpiles as specified. Excess topsoil, not needed for proposed lawns, as specified, shall be loaded and hauled offsite at no additional cost to the Owner.

### 3.3 SITE CLEARING AND REMOVALS

- A. Items and materials noted to be removed shall become the property of the Contractor, unless otherwise noted. Obtain Owner's approval prior to removal off site or for relocation of salvaged material on site. Remove material off site and legally dispose of it. Backfill voids with imported granular backfill, placed in eight (8") inch layers compacted to 95% maximum density.
- B. Remove physical elements above and below grade as shown and which interfere with proposed construction. Physical elements include but are not limited to: trees, root systems, shrubs, vines, grass, vegetation, pavements, walks, curbs, gutters, foundations, previous construction materials, glass, headwalls, flared end sections, catch basins, manholes, inlets, drywells, septic tanks, unused utilities, pipes, cisterns, walls, rocks, and other debris.
- C. Trees, shrubs and roots shall be completely removed and disposed of legally off site.

- D. Maintain existing utilities shown to remain and protect from damage during demolition and construction operations. Do not interrupt existing utilities; provide temporary services when required, as acceptable to the Architect.
- E. Research with Owner possible locations of existing subsurface utilities prior to excavating.

### 3.5 SAW CUTTING

- A. The Work consists of vertical saw cutting of the existing asphalt or concrete pavement structure to facilitate the removal of the asphalt or concrete bound material.
- B. The equipment shall be capable of producing a smooth vertical saw cut without causing damage to the adjacent pavements or related site features.
- C. The Contractor shall saw cut the asphalt/concrete pavement to a depth which will allow removal of the material without causing damage to the adjacent pavement. Rough, jagged or cracked edges will not be acceptable. Concrete pavement shall be removed at the nearest contraction joint.

### 3.6 RELOCATIONS

- A. Any item noted to be relocated shall be removed by the Contractor from its existing position without damaging it, stored, protected from theft, fire, vandalism and damage for the project duration. Reset in the location(s) and in the manner detailed, noted on the drawings or specified.
- B. Backfill voids with imported granular fill material, placed in eight (8") inch layers compacted to 95% maximum density when located in proposed pavement areas or 90% maximum density when located in proposed non-paved areas.
- C. Salvaged items shall be returned to the Owner as noted on the drawings. Move items to Owner designated areas.

### 3.7 CLEAN UP

During the contract and at intervals as directed by the Architect and as site preparation is completed, clear the site of extraneous materials, rubbish, and debris. Leave the site in a clean, safe, well draining, neat condition.

**END OF SECTION 311201**