

Appendix E. Documentation of Co-Located Infrastructure Consultations

Searches were conducted for utilities in the area of the alignment and the equipment laydown yards through UDig NY. A total of six utilities owners were identified as potentially operating in the alignment or laydown yard search areas. Table E-1 summarizes the status of Collocated Infrastructure (CI) owner consultation. One utility owner, Orange and Rockland Utilities Inc. (ORU), owns and operates overhead electrical transmission lines that are located within the CSX railroad right of way, and pass over the proposed HDD alignment. ORU was initially contacted in March 2022 and provided with a project fact sheet. Draft plan and profile sheets for this EM&CP design package were provided to ORU in August 2022 and multiple outreach attempts have been made to obtain feedback from ORU on the proposed HDD alignment but to date, feedback has not been received. Copies of the Fact Sheet, UDig NY tickets, and correspondence with utility owners are provided below.

Coordination with CSX rail has been conducted to confirm that the proposed HDD alignment is being done in a manner satisfactory to the railroad. Additional information regarding railroad consultation will be provided when received.

Table E-1

Utility Owner Name	CI Search Status
ALGONQUIN GAS / SPECTRA ENERGY	Confirmed no utilities.
CABLEVISION OF WEST NYACK	Confirmed no utilities.
ORANGE & ROCKLAND UTILITIES INC. (ORU)	Consultation Ongoing for laydown area. Overhead electric transmission lines cross HDD alignment. Plan/profile of HDD alignment provided and multiple requests made for crossing requirements/feedback. None received so far.
SUEZ WATER NEW YORK	Active utilities at 44 Elm Ave at the western border of the laydown area. Additional utilities in the area are abandoned.
TOWN OF STONY POINT	Confirmed no utilities.
VERIZON	Overhead copper lines at the Spring St and Elm Ave intersection. An underground copper line runs from the Orange & Rockland substation. Location must be identified by Orange & Rockland.

Champlain Hudson Power Express
Upland Co-Located Infrastructure
Fact Sheet

Project Background

- The Champlain Hudson Power Express (CHPE) is a 339-mile underground and underwater high voltage direct current (HVDC) electric transmission line that will import up to 1,250 MW of renewable power from Canada and send it to the New York City metro area.
- Transmission Developers Inc. (TDI) is the developer of the project.
- TDI is owned by Blackstone, a company based in New York.
- The transmission line is fully permitted at the State and Federal level and has been under development for roughly 10 years.
- The upland portion of the transmission line will be located primarily within transportation corridor (railway or highway) rights-of-way.

Construction Timing & EM&CP

- Construction is anticipated for 2022 –2025
- A map of the Project is included as Attachment A.
- Prior to construction commencing, CHPE must file an Environmental Management & Construction Plan (EM&CP) and receive approval from the State for this segment prior to installing the transmission line cables. The EM&CP will include detailed construction means and methods, and schedule. The EM&CP will be subject to public review and your organization will have the opportunity to review it before it becomes final.

- In preparation for that filing, TDI needs to coordinate with owners co-located infrastructure (CI) along this permitted route.
- TDI would like to (1) establish a contact with someone at your company/town who is responsible for this CI; (2) understand your process for discussing utility crossings; and (3) answer questions.

Overview of CI crossings and CHPE construction

- The underground portion of the buried transmission line will be installed in a trench approximately three (3) feet wide and five (5) feet deep and will require minimal or no maintenance during its 60+ year operational life (Typical trench detail - Attachment B).
- Within the trench, the cables will be installed in plastic conduit. There will also be a fiber optic cable installed within the trench.
- Proposed underground installation will be primarily in the shoulders of roadways, under the road's pavement or along the edge of the Canadian Pacific or CSX railroad rights-of-way.
- Once the cables are installed, the ground will be restored.
- Directly over the transmission lines, vegetation maintenance will be required to ensure deep rooted trees do not grow. Otherwise, no maintenance is needed.
- TDI has worked closely with the local towns, NYS DOT, and the Canadian Pacific and CSX railroads regarding CHPE, and it is coordinating the final design with them.
- Depending on the depth of the existing overland CI infrastructure, if within the 15 ft depth range, our preferred approach is to install our HVDC cables

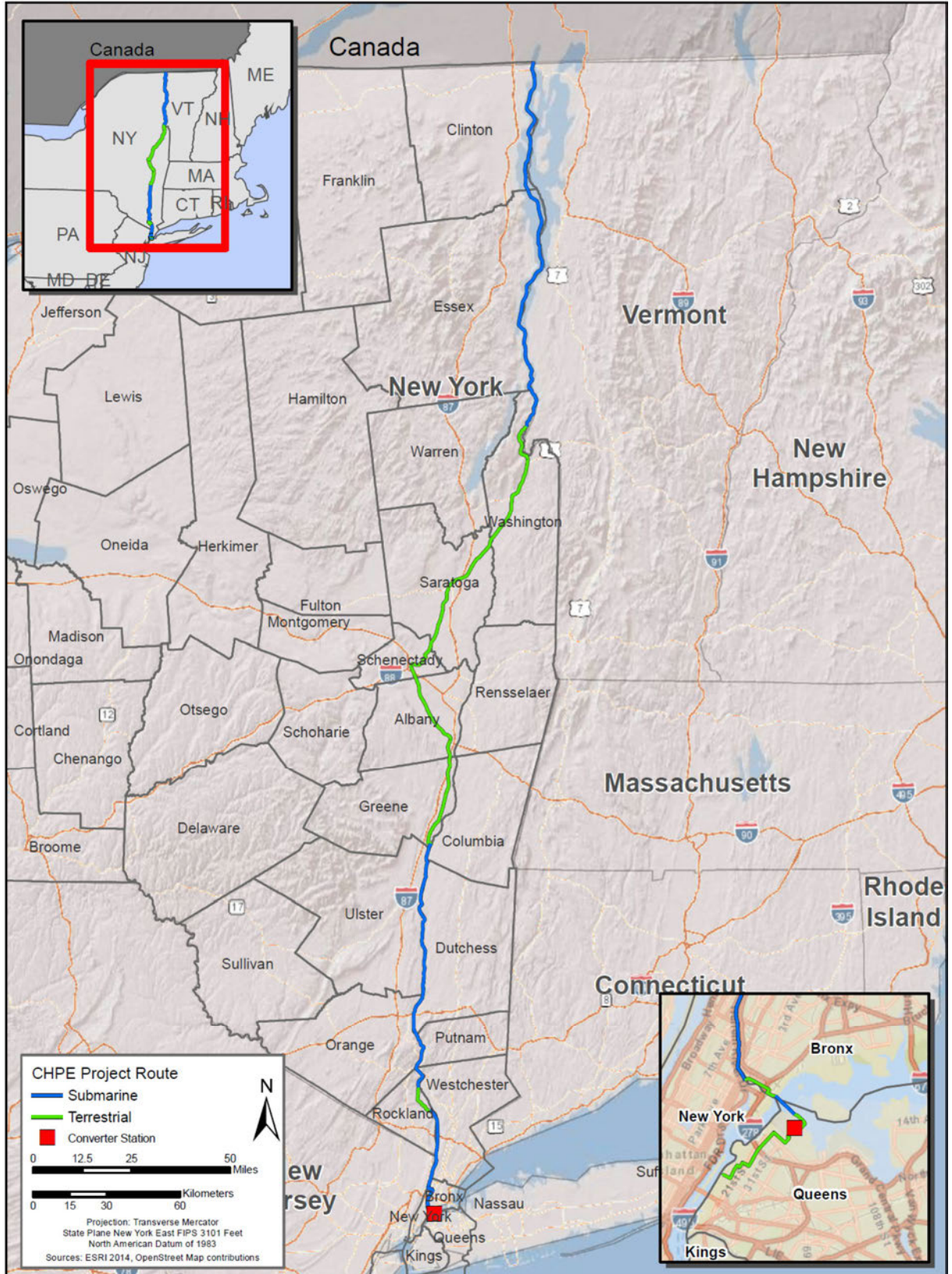
under all buried infrastructure. TDI will accomplish that by working with the CI-owners to establish the best methodology for exposing, supporting, and performing our cable installation under the existing infrastructure. (Typical crossing under CI – Attachment C)

- Our proposal for crossing under CI will follow industry standard crossing methods. Adequate temporary construction supports will be provided for the exposed co-located utilities below grade.
- For deeper CI (usually greater than 15ft) or when there is significant concentration of CI infrastructure within a particular area, horizontal directional drilling (HDD) will be employed to cross under the existing utilities.
- For proposed HDDs, two bored conduits approximately separated at a minimum distance of 15 ft will be installed following the required depth to house the HVDC cables.
- In the event TDI cannot install its cable conduit under buried infrastructure, it will cross over the existing CI utilities via open trench, provided that the minimum cover of 60 inches can be provided over the proposed HVDC cables in roadway and 30 inches of cover in roadside, other vegetated areas and within railroad right-of-way per the below detail (Typical crossing over CI - Attachment D).
- In crossing the existing co-located utilities, TDI and their contractors shall also install the proposed HVDC cables with at least the minimum clearance criteria specified by each individual utility owner.
- Regarding proposed trench installation over existing large municipal storm culverts, an underground utility bridging support structure will be

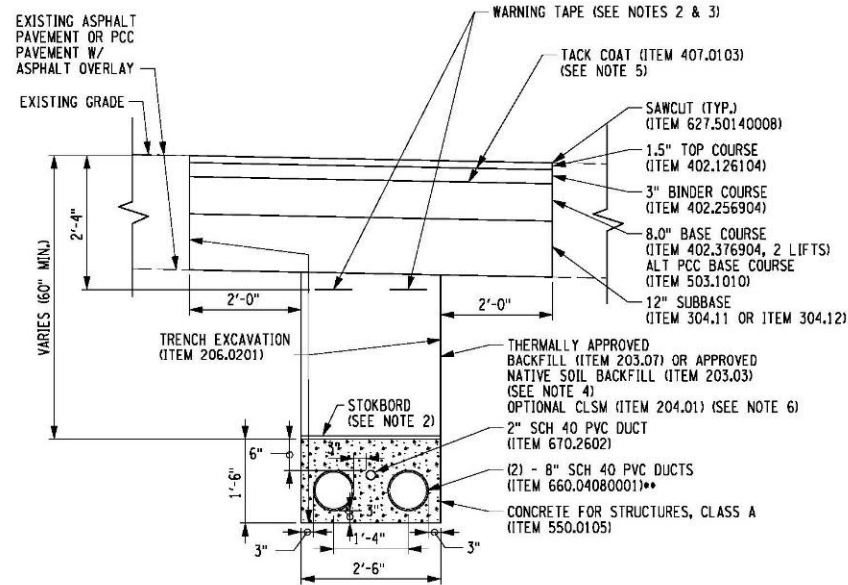
constructed to allow the proposed HVDC cables to be self-supported across the span in the event the storm culverts require future repair or replacement. (Typical CI support – Attachment E.)

- As part of development of a crossing plan for your CI, TDI will work with the respective CI owners, to:
 - Establish and conduct a subsurface utility survey to determine the precise location of the infrastructure within the limits of the proposed CHPE cable installation, including:
 - Depth from roadway and/or ground surface
 - Physical width and footprint occupied by the CI
 - Existence of CI supporting structures to be avoided
 - Confirm proposed crossing installation including the requirements for CI temporary support.
 - Eventually, based on this information, TDI will work with each CI owner to consummate a formal CI agreement as necessary.

Attachment A



Attachment B



TYPICAL FLAT CABLE ALIGNMENT IN DUCTBANK
TRENCH CROSS SECTION (ROADWAY INSTALLATION)

SCALE: 1"=2'

ITEM	DESCRIPTION
203.03	EMBANKMENT IN PLACE
203.07	SELECT GRANULAR FILL
204.01	CONTROLLED LOW STRENGTH MATERIAL
206.0201	TRENCH AND CULVERT EXCAVATION
304.11	SUBBASE COURSE, TYPE 1
304.12	SUBBASE COURSE, TYPE 2
402.126104	12.5 F1 TOP COURSE HMA, 60 SERIES COMPACTION
402.256904	25 F9 BINDER COURSE HMA, 60 SERIES COMPACTION
402.376904	37.5 F9 BASE COURSE HMA, 60 SERIES COMPACTION
407.0103	STRAIGHT TACK COAT
555.0105	CONCRETE FOR STRUCTURES, CLASS A
627.50140008*	CUTTING PAVEMENT
660.04080001**	FURNISH AND INSTALL PVC UTILITY CONDUIT - 8 INCH
670.2602	RIGID PLASTIC CONDUIT, 2"

*SPECIAL SPEC.
**SPECIAL NOTE:

FOLLOW SPECIAL SPECIFICATION 660.04060001. CONDUIT SIZE, FITTINGS AND CONNECTIONS TO BE REVISED TO 8" AND SCHEDULE TO BE SCH 40.

NOTES:

1. FILL MATERIAL SHALL HAVE THERMAL RESISTIVITY OF 1.0 K*m/W OR LESS.
2. FITTINGS, CONNECTIONS, WARNING TAPE, AND STOKBORD WILL BE INCLUDED UNDER ITEM 660.04080001.
3. WARNING TAPE DEPTH TO MEET THE REQUIREMENTS OF NEC SECTION 300.5(D)(3).
4. FOR INSTALLATION NOT LOCATED IN ROADWAYS, APPROVED NATIVE SOIL BACKFILL WILL EXTEND TO WITHIN FOUR (4) INCHES OF EXISTING GRADE.
5. TACK COAT SHALL BE APPLIED TO ALL EXPOSED EDGES AND BETWEEN EVERY LIFT.

ALTERED ON:	APPROVED ON:
SIGNATURE:	SIGNATURE:
STAMP:	STAMP:

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

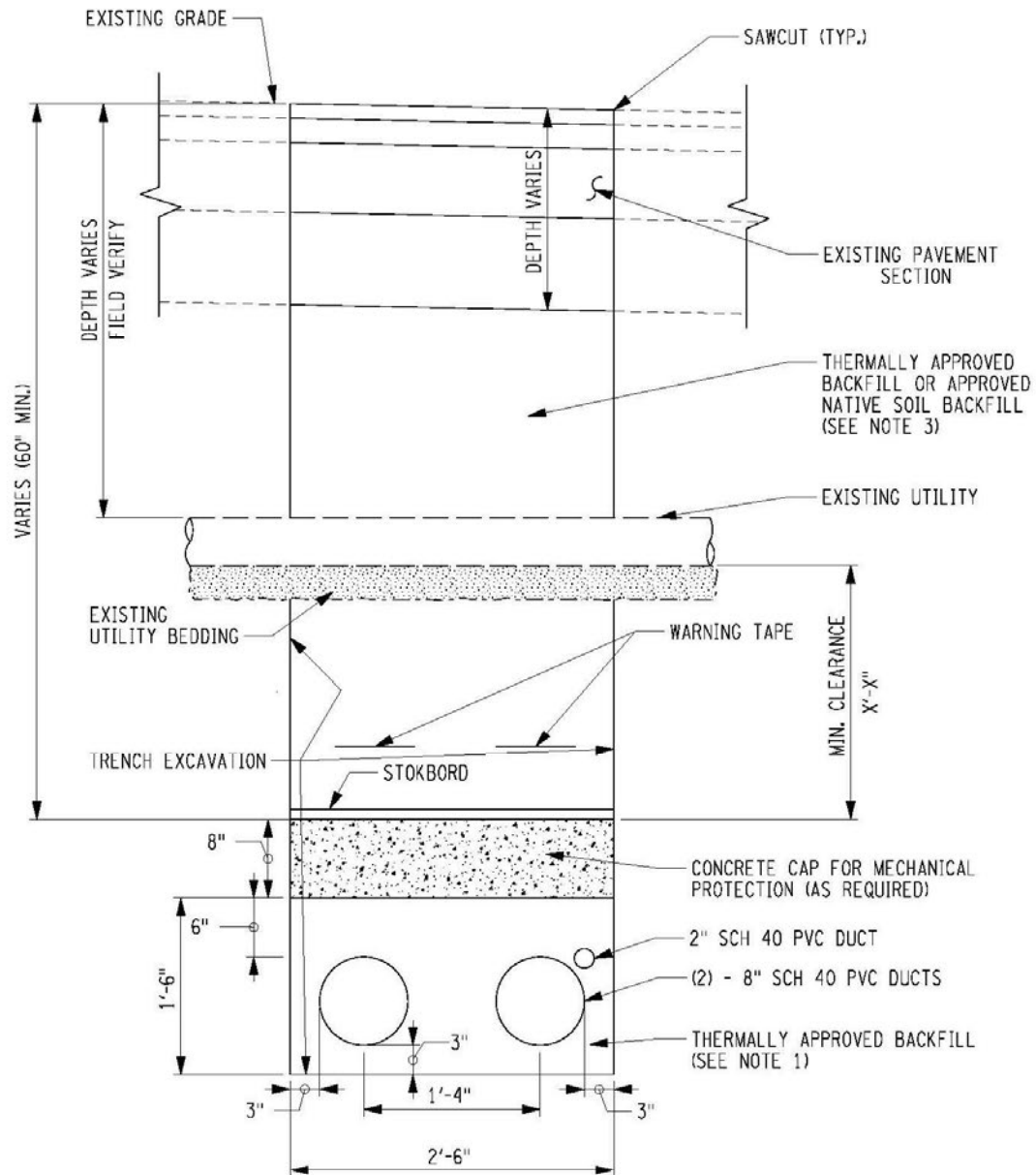
REVISIONS			
DATE	DESCRIPTION	BY	SYN

TRANSMISSION DEVELOPERS, INC.
1301 AVENUE OF THE AMERICAS
NEW YORK, NY 10019-6022

AECOM

TITLE OF PROJECT CHEAMPLAIN HUDSON POWER EXPRESS	CONTRACT NUMBER: 60323056
LOCATION OF PROJECT	DATE: 03/04/2021
TITLE OF DRAWING TYPICAL TRENCH CROSS SECTION WITH PVC CONDUIT IN DUCTBANK	DRAWING NUMBER:

Attachment C



TYPICAL UTILITY CROSSING DETAIL

NOTES:

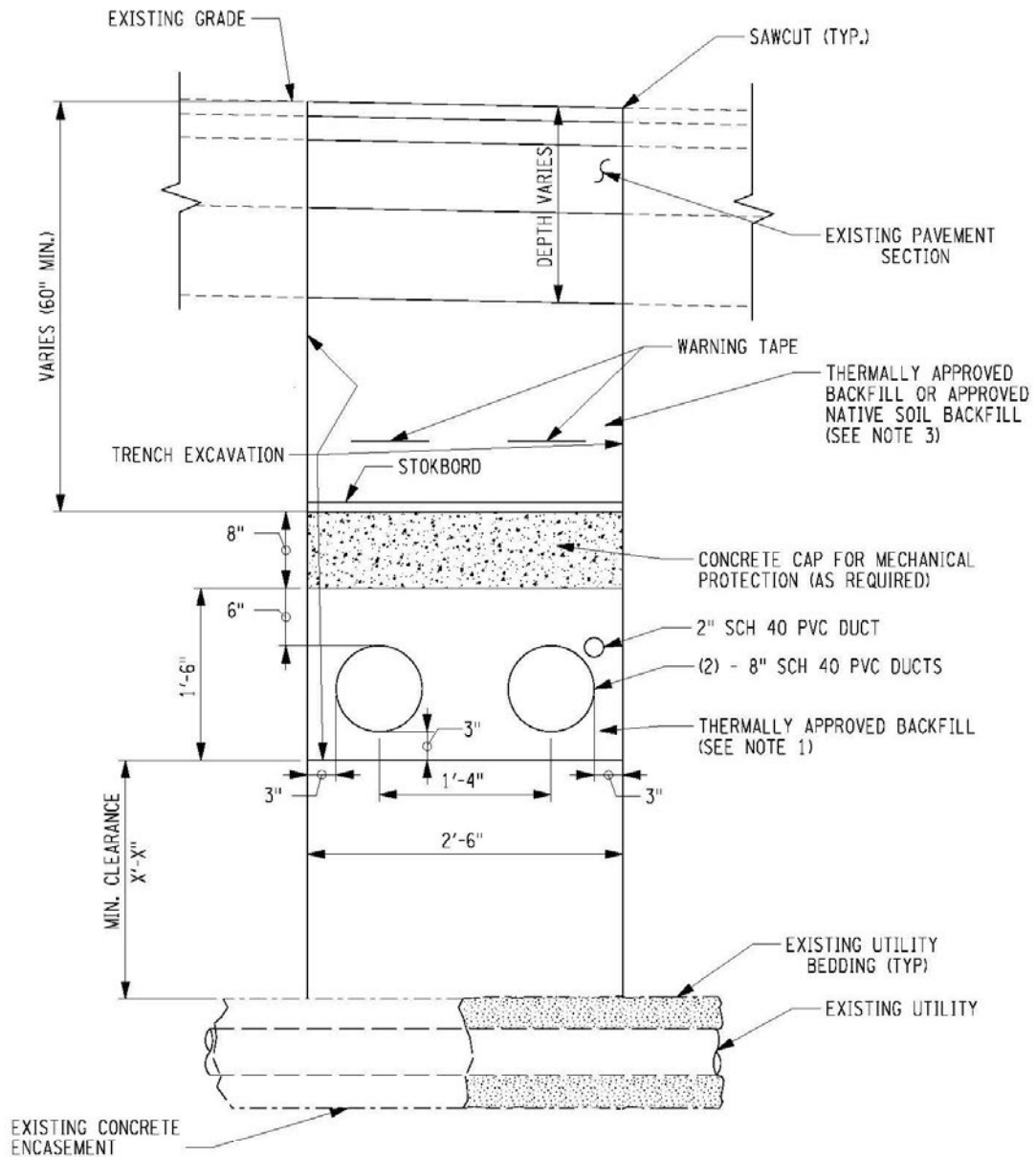
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PROJECT TITLE CHAMPLAIN HUDSON POWER EXPRESS TRANSMISSION DEVELOPERS, INC.	LOCATIONS	
	DRAWING TITLE	DATE: 07/07/2020
	TYPICAL UTILITY CROSSING DETAIL	DRAWING NUMBER: FIG X.X

AECOM

Attachment D



TYPICAL UTILITY CROSSING OVER DETAIL

NOTES:

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AECOM	DRAWING TITLE TYPICAL UTILITY CROSSING OVER DETAIL	DRAWING NUMBER: FIG X.X

Attachment E



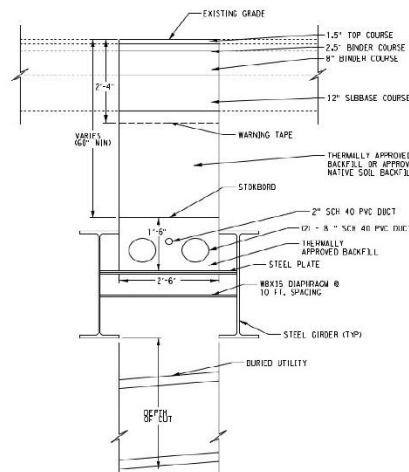
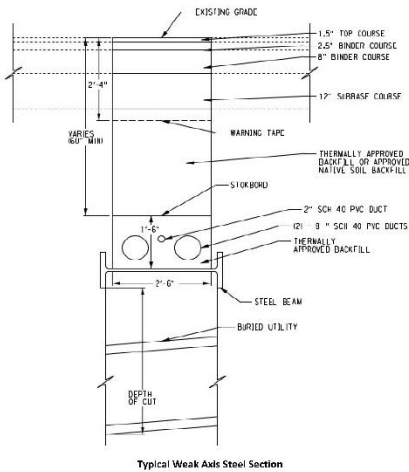
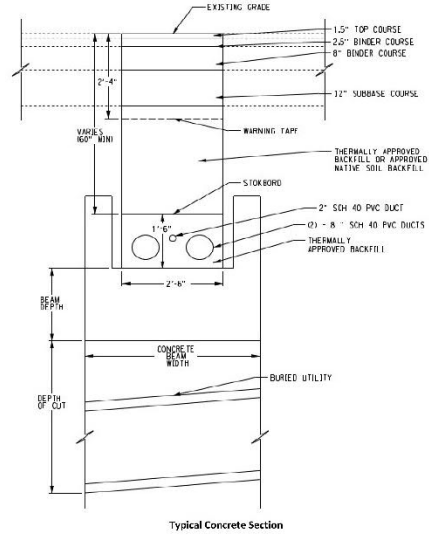
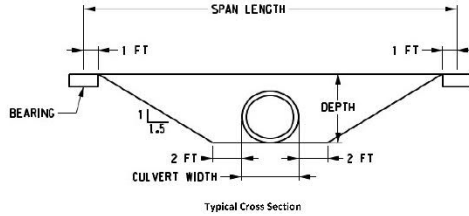
AECOM U.S.A., Inc.
40 British American Blvd.
Latham, NY 12110

PROJECT NO. 60323056
Prepared By: JMD Date 12/11/2020
Reviewed By: MWO Date 12/11/2020
Approved By: Date

CALCULATION SHEET

Client: TDI
Project: CHPE
Subject: Underground Utility Support

Description: Preliminary Review of Utility Support Options over culvert replacements
Details:



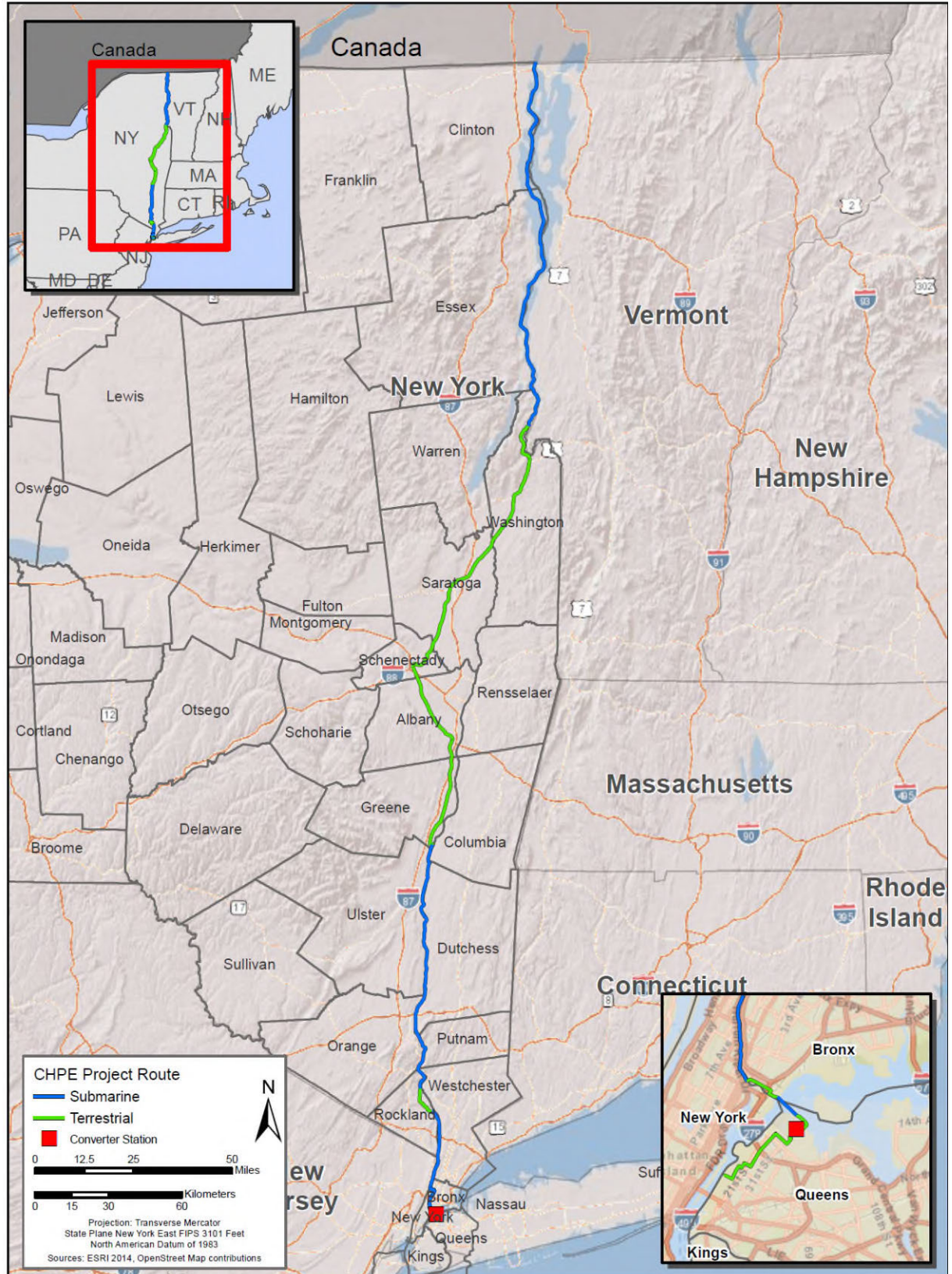
Support Sizes

Culvert Width (ft)	Depth of Cut (ft)															
	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1.38	1-A	2-A	3-C	4-D	5-E	5	5	5	5	5	6	6	6	6	6	6
1.65	1-A	2-A	3-C	4-D	5-E	5	5	5	5	5	6	6	6	6	6	6
1.92	1-A	2-A	3-C	4-D	5-E	5	5	5	5	5	6	6	6	6	6	6
2.50	1-A	3-B	3-C	4-D	5-E	5	5	5	5	5	6	6	6	6	6	6
3.08	1-A	3-B	4-D	5-D	5	5	5	5	5	5	6	6	6	6	6	6
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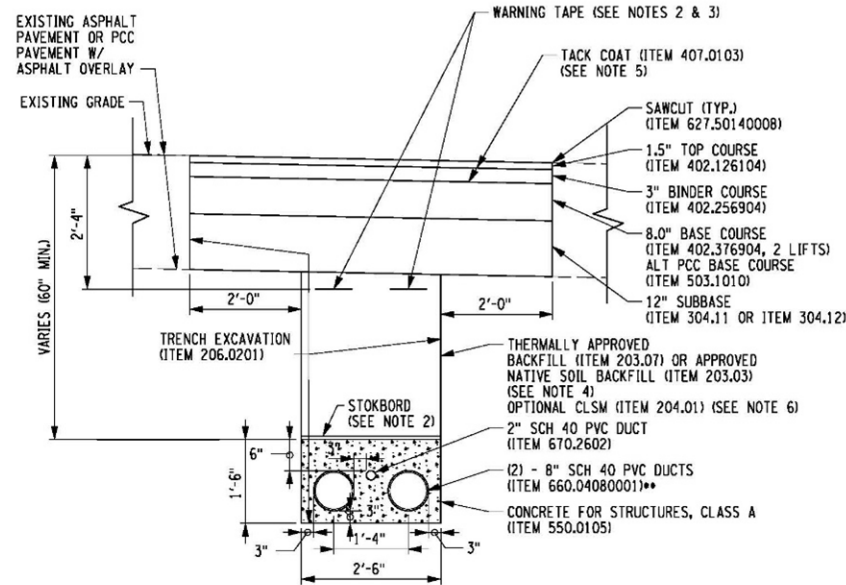
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Type	Concrete Beam Width	Beam Depth
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B	52	20
C	52	24
D	52	30
E	52	36

Attachment A



Attachment B



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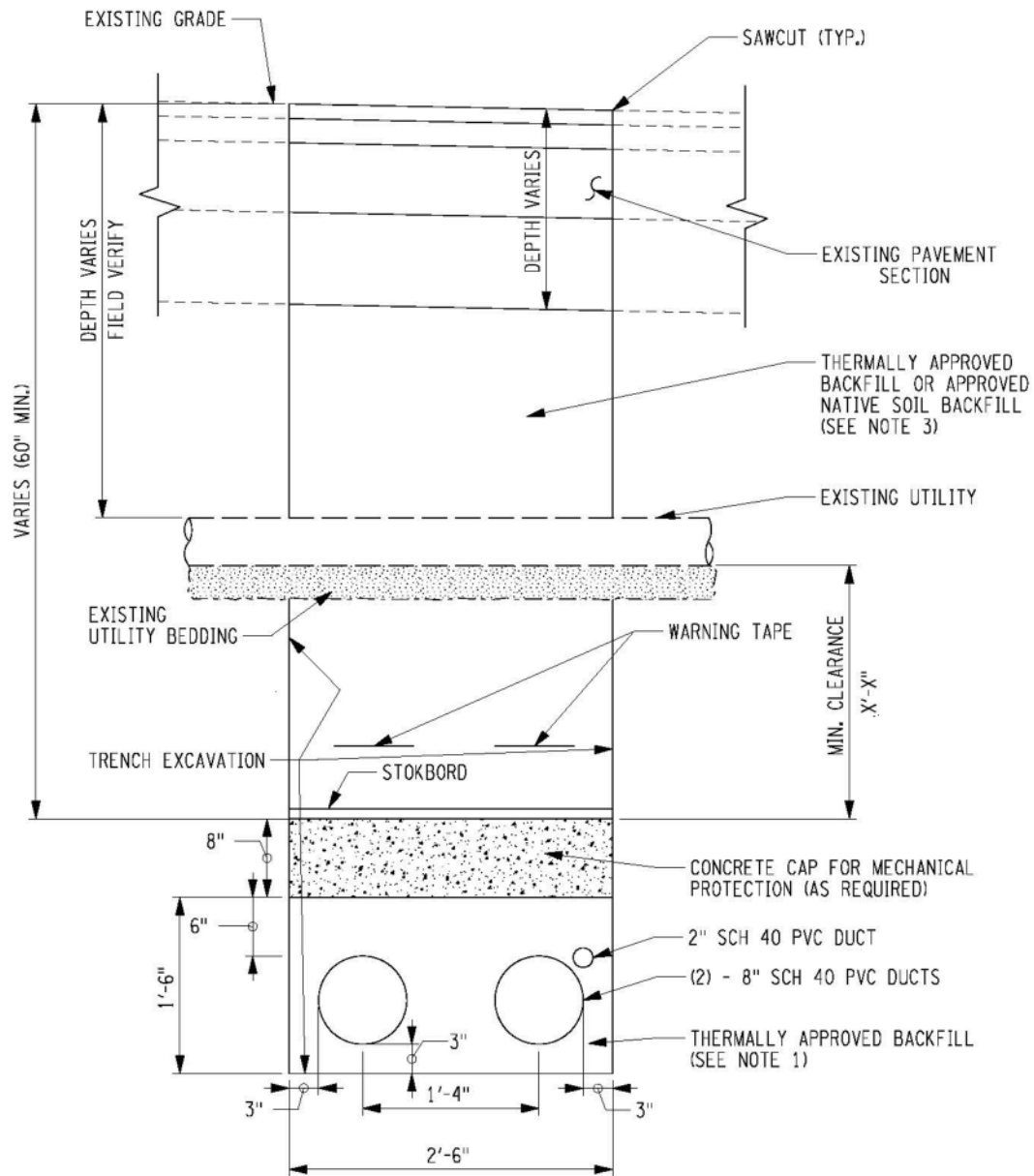
TITLE OF PROJECT
CHEAMPLAIN HUDSON POWER EXPRESS
LOCATION OF PROJECT
TITLE OF DRAWING
TYPICAL TRENCH CROSS SECTION
WITH PVC CONDUIT IN DUCTBANK

CONTRACT NUMBER:
60323056

DATE:
03/04/2021

DRAWING NUMBER:

Attachment C



TYPICAL UTILITY CROSSING DETAIL

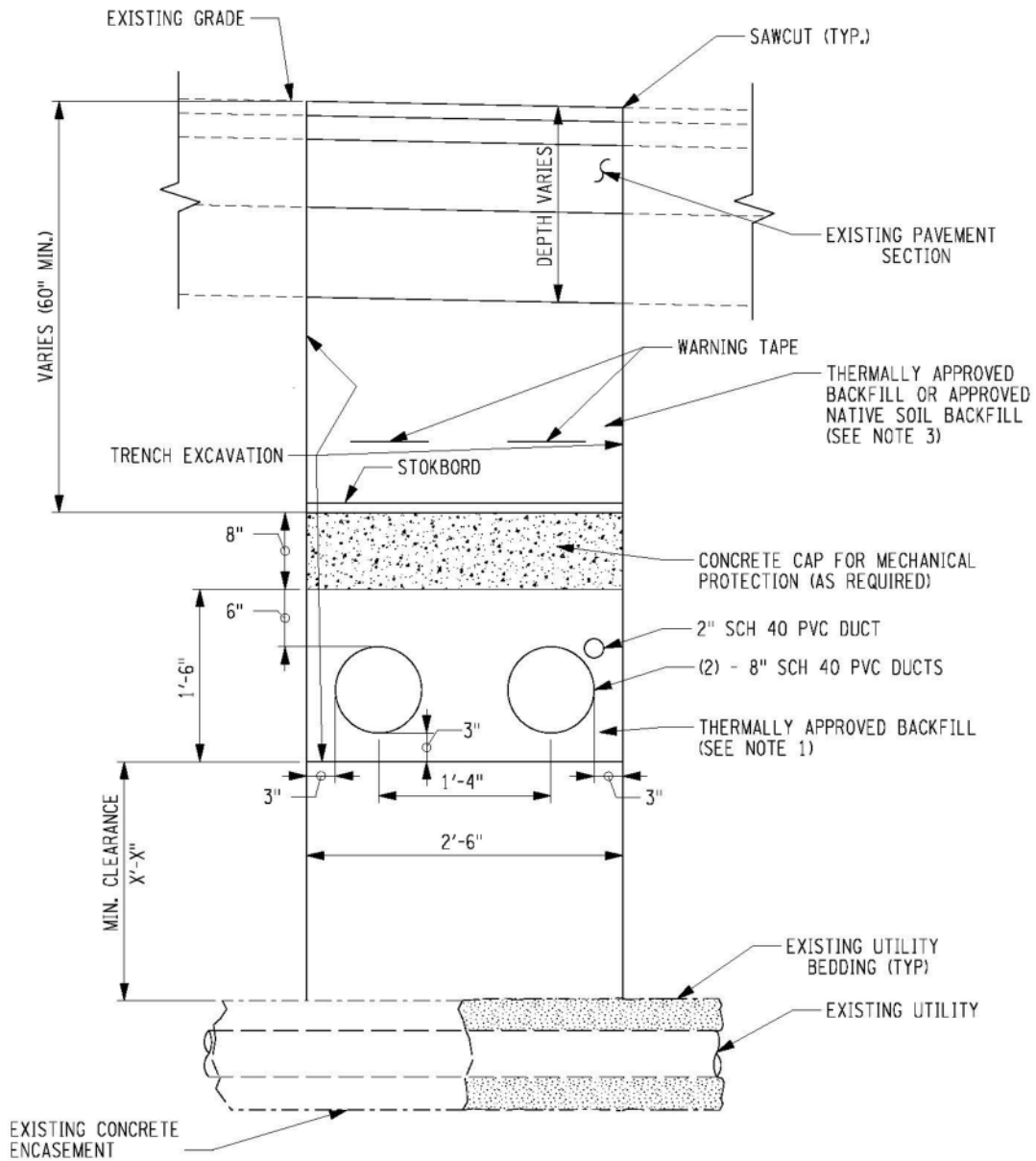
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PROJECT TITLE CHAMPLAIN HUDSON POWER EXPRESS TRANSMISSION DEVELOPERS, INC.	LOCATIONS	
	DRAWING TITLE	DATE: 07/07/2020
AECOM	TYPICAL UTILITY CROSSING DETAIL	DRAWING NUMBER: FIG X.X

Attachment D



TYPICAL UTILITY CROSSING OVER DETAIL

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Attachment E



AECOM U.S.A., Inc.
40 British American Blvd.
Latham, NY 12110

PROJECT NO. 60323056

Prepared By: JMD

Date: 12/11/2020

Reviewed By: MWO

Date: 12/11/2020

Approved By:

Date:

CALCULATION SHEET

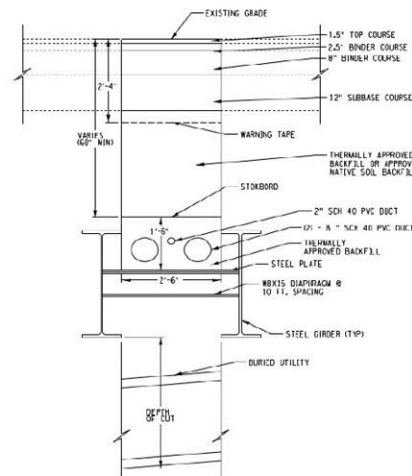
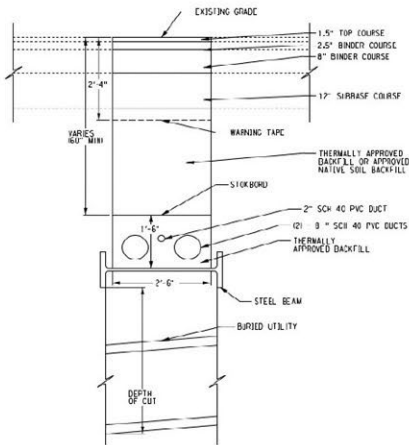
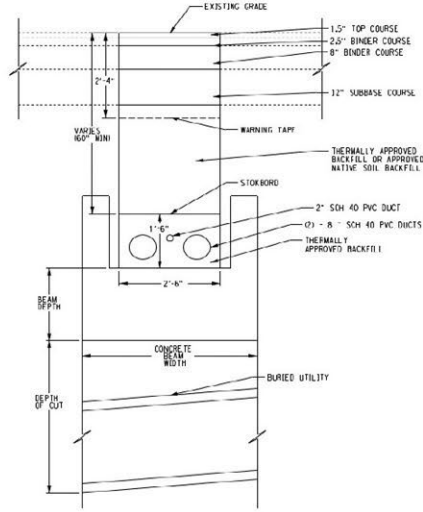
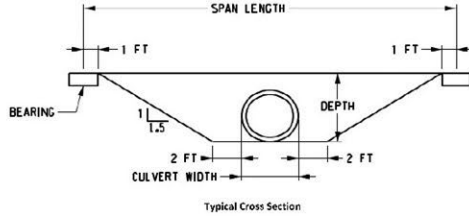
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Subject: Underground Utility Support

Project: CHPE

Description: Preliminary Review of Utility Support Options over culvert replacements

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D	52	30
E	52	36

Cole, Benjamin

From: UDig NY Exactix <tickets@exactix.udignyny.org>
Sent: Monday, July 25, 2022 2:10 PM
To: Grassi, Laura
Subject: Message from UDig NY

Ticket: 07252-002-048-00 Type: Design Previous Ticket:

State: NY County: ROCKLAND Place: TOMKINS COVE
Addr: From: To: Name: BATTLEFIELD RD
Cross: From: To: Name:
Offset:

Locate:
NearSt: PARK RD
Means of Excavation: Blasting: N
Site marked with white: N
Boring/Directional Drilling: N
Within 25ft of Edge of Road: Y

Work Type: INSTALL ELECTRIC LINE
Estimated Work Complete Date: 07/28/2022 Depth of excavation:
Site dimensions:
Start Date and Time: 08/01/2022 07:00
Must Start By: 08/15/2022

Contact Name: LAURA GRASSI
Company: WSP USA, BUFFALO
Addr1: 50 LAKEFRONT BLVD Addr2: SUITE #111
City: BUFFALO State: NY Zip: 14202
Phone: 716-276-0193 Fax:
Email: laura.grassi@wsp.com
Field Contact: LAURA GRASSI
Alt Phone: 716-276-0193 Email: laura.grassi@wsp.com
Working for: NYS PUBLIC SERVICE COMMISSION

Comments: THE SOUTHERN BOUNDARY OF THE WORK AREA IS THE INTERSECTION OF PARK
: RD AND BATTLEFIELD RD.THE WORK AREA FOLLOWS APPROX 200 FT NORTH OF
: AN ACCESS ROAD THAT BRANCHES OFF OF BATTLEFIELD RD IMMEDIATELY NORTH
: OF THE INTERSECTION WITH PARK RD (THIS ACCESS RD IS SHOWN IN GOOGLE
: MAPS). WHERE THE ACCESS ROAD ENDS, THE WORK AREA CONTINUES IN A
: STRAIGHT LINE APPROX 300 FT INTO TO THE RIVER.
: WORKING ON BOTH SIDES OF THE STREET.
: PROPOSED DESIGN AREA: SEE COMMENTS
: PER CODE RULE 753 EACH OPERATOR SHALL PROVIDE A MEANS BY WHICH
: INFORMATION REGARDING THE LOCATION OF UNDERGROUND FACILITIES CAN BE
: OBTAINED FOR DESIGN PURPOSES.
: **THIS TICKET IS NOT A SUBSTITUTE FOR THE INTENT TO EXCAVATE**
: Lookup Type: MANUAL

Members:

CABLEVISION OF WEST NYACK	201-651-4030
ORANGE & ROCKLAND UTILITIES INC. ROCK ORANGE	845-577-2374
SUEZ WATER NEW YORK	845-620-6227
TOWN OF STONY POINT	845-786-2716 x105

Cole, Benjamin

From: UDig NY Exactix <tickets@exactix.udignny.org>
Sent: Wednesday, August 31, 2022 12:40 PM
To: Grassi, Laura
Subject: Message from UDig NY

Ticket: 08312-001-353-00 Type: Design Previous Ticket:

State: NY County: ROCKLAND Place: STONY POINT
Addr: From: To: Name: ELM AVE
Cross: From: To: Name:
Offset:

Locate:
NearSt:
Means of Excavation: Blasting: N
Site marked with white: N
Boring/Directional Drilling: N
Within 25ft of Edge of Road: Y

Work Type: STAGING AREA
Estimated Work Complete Date: 09/06/2022 Depth of excavation:
Site dimensions:
Start Date and Time: 09/08/2022 07:00
Must Start By: 09/22/2022

Contact Name: LAURA GRASSI
Company: WSP USA, BUFFALO
Addr1: 50 LAKEFRONT BLVD Addr2: SUITE 111
City: BUFFALO State: NY Zip: 14202
Phone: 716-276-0193 Fax:
Email: laura.grassi@wsp.com
Field Contact: LAURA GRASSI
Alt Phone: 716-276-0193 Email: laura.grassi@wsp.com
Working for: NYS PUBLIC SERVICE COMMISSION

Comments: PROPOSED DESIGN AREA: WORK AREA INCLUDES 10, 42, 44, 46, AND 54 ELM
: AVE
: PER CODE RULE 753 EACH OPERATOR SHALL PROVIDE A MEANS BY WHICH
: INFORMATION REGARDING THE LOCATION OF UNDERGROUND FACILITIES CAN BE
: OBTAINED FOR DESIGN PURPOSES.
: **THIS TICKET IS NOT A SUBSTITUTE FOR THE INTENT TO EXCAVATE**
: PER CODE RULE 753 EACH OPERATOR SHALL PROVIDE A MEANS BY WHICH
: INFORMATION REGARDING THE LOCATION OF UNDERGROUND FACILITIES CAN BE
: OBTAINED FOR DESIGN PURPOSES.
: **THIS TICKET IS NOT A SUBSTITUTE FOR THE INTENT TO EXCAVATE**
: Lookup Type: MANUAL

Members:

ALGONQUIN GAS / SPECTRA ENERGY WEST	845-279-3001
CABLEVISION OF WEST NYACK	201-651-4030
ORANGE & ROCKLAND UTILITIES INC. ROCK ORANGE	845-577-2374
SUEZ WATER NEW YORK	845-620-6227
TOWN OF STONY POINT	845-786-2716 x105
VERIZON VALHALLA HUDSON VALLEY	914-741-8750

From: Cole, Benjamin

Sent: Wednesday, August 31, 2022 3:26 PM

To: 'Bubenko, Jacqueline' <bubenkoj@oru.com>

Cc: Rick Chase <Rick.Chase@transmissiondevelopers.com>; Grassi, Laura <Laura.Grassi@wsp.com>; Gaddi, Alfred <GaddiA@oru.com>; D'alleva, Anthony <DallevaA@oru.com>; Mariconi, Matthew D <mariconim@oru.com>; Michael Main <michael.main@transmissiondevelopers.com>; Nolan Mazur <nolan.mazur@transmissiondevelopers.com>; Meyers, Robert <Bob.Meyers@wsp.com>

Subject: RE: <External Sender> RE: Champlain Hudson Power Express Transmission Line Project Submarine Infrastructure Survey

Hi Jackie,

Please see the attached draft plan and profile drawing set that provides information on how the CHPE project is designed to traverse the portion of the Project where the alignment transfers between marine- and land-based. The owner of the project, Transmission Developers Inc. (TDI), will be submitting these plans to the New York State Public Service Commission ("PSC") for approval.

The CHPE cables will be installed using horizontal directional drilling (HDD) techniques in this portion of the alignment, and will be placed at a depth of at least 92 feet below the CSX railroad tracks.

While the attached plan set is not yet final, further changes are expected to be minor and are not anticipated to affect the design of the crossing under your overhead transmission lines. Please review the attached information regarding the CHPE alignment relating to your infrastructure and provide concurrence with the alignment and any feedback to me (ben.cole@wsp.com) by September 14, 2022.

As a reminder, the CHPE is a fully permitted 339-mile underground and underwater high voltage direct current (HVDC) electric transmission line that will import up to 1,250 MW of renewable power from Canada and send it to the New York City metro area (see <https://chpexpress.com> for additional information).

Please let me know any questions that you may have, and if there are requirements from O&R of which we should be aware, at this crossing. I look forward to coordinating with you as we move forward.

Sincerely,

Ben Cole
(716) 289-1707
ben.cole@wsp.com

From: Rick Chase <Rick.Chase@transmissiondevelopers.com>
Sent: Thursday, May 19, 2022 9:29 AM
To: Mariconi, Matthew D <mariconim@oru.com>
Cc: Cole, Benjamin <Ben.Cole@wsp.com>
Subject: Champlain Hudson Power Express Transmission Line Project Submarine Infrastructure Survey

Good morning Matt.

Transmission Developers Inc, ("TDI") is moving ahead with advanced design and ultimate construction of the Champlain Hudson Power Express ("CHPE"), a 1,250 MW underwater and underground high voltage direct current (HVDC) electric transmission line running from the New York-Canada border to New York City.

You may recall, in 2020 we communicated TDI's intent to do on/in water surveys to confirm the location (including depth if possible) of any Co-located Infrastructure ("CI") the CHPE will cross along the project's route in the Hudson River. Due to the pandemic, those surveys were postponed.

I am writing to you today as TDI intends to conduct these surveys mid-summer 2022. The information gained by these surveys is necessary to inform the preparation of the detailed plans and profiles included in the Environmental Management & Construction Plan (EM&CP). The EM&CP will be submitted to the New York State Public Service Commission ("PSC") for approval and the PSC's approval of these plans are necessary to begin construction. You will be notified prior to the start of the surveys and your organization will have an opportunity to review plans to cross your CI prior to submission to the PSC.

We know that these crossings are of great importance to your company, and we want to address them in a deliberate and collaborative way.

At this time, I would ask:

1. For you to confirm the proper contact at your organization to coordinate with for the survey.
2. Identify any specific procedures you may have for TDI to conduct these surveys of your CI; and

As CHPE advances towards construction, our team has expanded to include an Owners' Engineer (WSP) and an Engineering, Procurement and Construction Contractor (NKT) and its contractor (Caldwell Marine, Inc.) for installation of the cables in the waterways. In the future, representatives of these organizations may reach out to you directly as part of the detailed design, engineering, and construction of the project.

Thank you in advance for your cooperation.

Regards,

Rick Chase
Senior Public Affairs Consultant



Albany, NY 12207
www.transmissiondevelopers.com
<http://www.chpexpress.com>
C: (518) 461-6836

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From: Rick Chase <Rick.Chase@transmissiondevelopers.com>

Sent: Friday, April 15, 2022 8:43 AM

To: wysockowsilk@oru.com; Mariconi, Matthew D <mariconim@oru.com>

Subject: <External Sender> Champlain Hudson Power Express and Orange & Rockland Infrastructure

CAUTION! EXTERNAL SENDER

STOP WHEN UNSURE. Never click on links or open attachments if sender is unknown, and never provide your email address or password. Suspicious? Use the Phish Reporter (for mobile phones, forward message to Email Security).

Good morning,

TDI's Jen White referred me to you. We're not sure you are the proper representatives at O&R who will handle this issue, but I'd ask that you pass this information along to those in your organization who will be involved in this effort.

Transmission Developers Inc. (TDI), the developer of the Champlain Hudson Power Express (CHPE), is starting the process of developing detailed construction plans for the underground segment of the electric transmission line along its route in New York State. These plans, called an Environmental Management & Construction Plan (EM&CP), will ultimately be submitted to the NYS Public Service Commission (PSC) for approval before project construction can begin. It is our understanding that your company owns/operates infrastructure ("Co-located Infrastructure" or "CI") along the Project's route. A Google Earth .kmz map of the route is attached. The colored lines indicate different segments of the Project's route for construction scheduling purposes.

CHPE is a fully permitted 339-mile underground and underwater high voltage direct current ("HVDC") electric transmission line that will import up to 1,250 MW of renewable power from Canada and send it to the New York City metro area. The cables of the upland route will be installed primarily within transportation corridors -- either in highway/road or railroad rights-of-way. Yesterday, the New York State Energy Research and Development Authority's (NYSERDA) Tier 4 contract with Hydro-Québec for the Champlain Hudson Power Express (CHPE) was approved by the New York State Public Service Commission (PSC) -- a critical authorization required for the project which will begin delivering 1,250 megawatts of clean and renewable hydropower to New York City (NYC) by 2025.

I am writing today to begin discussion on the plans to cross O&R's infrastructure encountered along the Project's route. Our initial goal is to confirm the location of your infrastructure, obtain any criteria for crossing or paralleling your infrastructure, and to understand your process for working collaboratively with us to develop and complete this design and engineering work. O&R will have an opportunity to review the EM&CP prior to PSC approval.

It is important to us that we coordinate this work with your company and that we agree to the crossings' construction plans. If you have any criteria or requirements for crossing your infrastructure, please send them along as it would be informative to the design process.

A fact sheet is attached with background on the CHPE, including information on typical crossing methods.

If you have any questions, please don't hesitate to contact me.

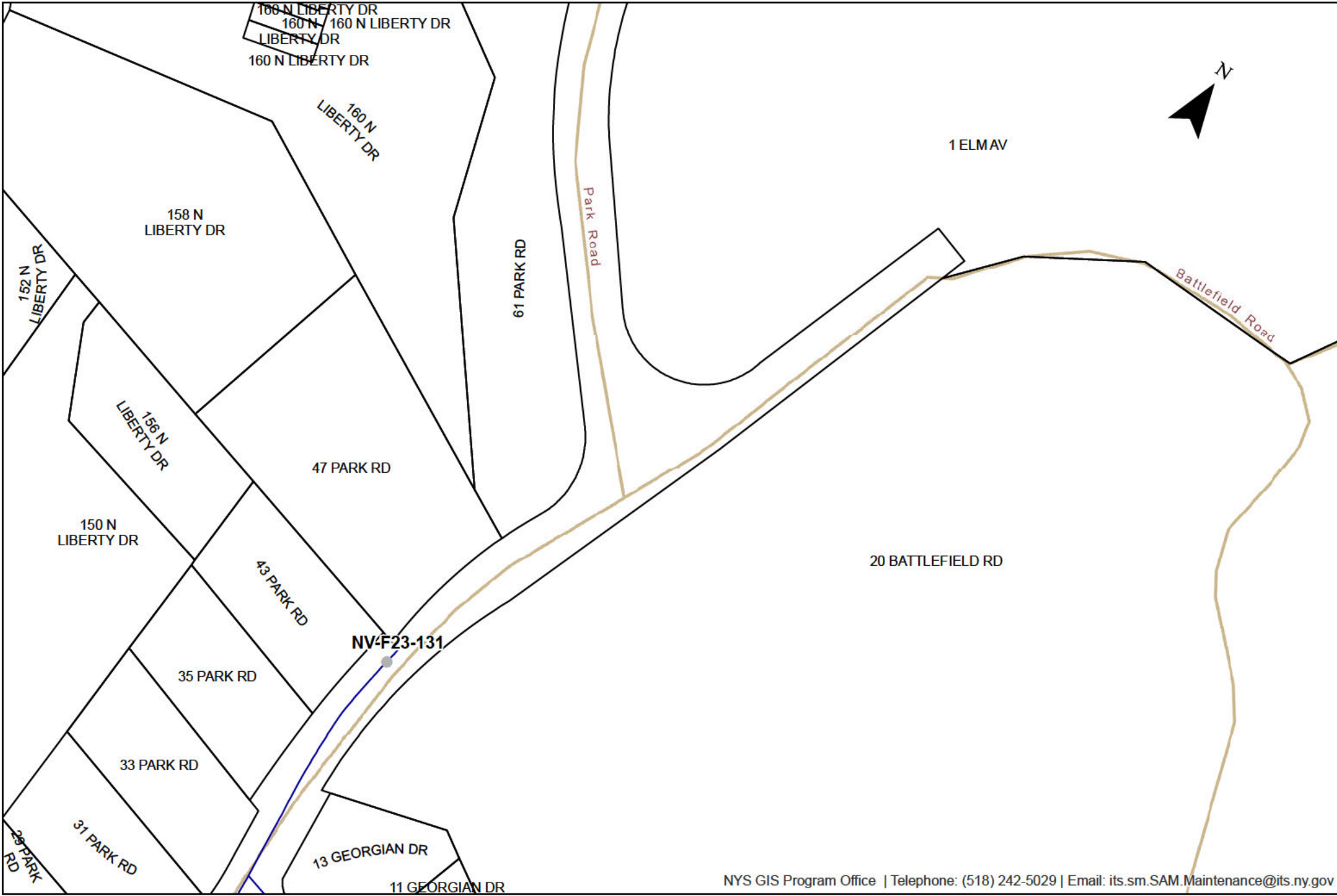
Thank you in advance for your cooperation in this matter.

Best,

Rick Chase
Senior Public Affairs Consultant



A Portfolio Company
600 Broadway
Albany, NY 12207
www.transmissiondevelopers.com



VEOLIA 162 OLD MILL RD WEST NYACK NY	Drawn By: tlewis
	Date: 7/29/2022
	Sheet: of

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MARKOUT 46264
INTERSECTION OF PARK RD
AND BATTLEFIELD RD
STONY POINT

- | | | |
|-------------------------|--------------------|--------------|
| wHydrant | <all other values> | Production |
| No Key | SubtypeCode | SandTrap |
| Line Valve | Distribution | Transmission |
| wPressurizedMain | FlushLine | |

Grassi, Laura

From: Lewis, Tania <vania.lewis@veolia.com>
Sent: Friday, July 29, 2022 11:07 AM
To: Grassi, Laura
Subject: Mark out
Attachments: GIS_REQUEST__BATTLEFIELD RD.pdf

Follow Up Flag: Follow up
Flag Status: Completed

Good Morning Laura,

Here is a mark-out of the Battlefield and Park Rd intersection in Stony Point. If you have questions, please let me know.

REQUEST # 46264

--

Thank you,

Tania

Grassi, Laura

From: Parco, William <william.parco@veolia.com>
Sent: Thursday, July 28, 2022 5:03 PM
To: Grassi, Laura
Subject: Markout Design Ticket: 07252-002-048-00
Attachments: req26264.pdf

Follow Up Flag: Follow up
Flag Status: Completed

Hello

Please see the attached water utility schematic for the above referenced ticket. We have no known assets along Battlefield Rd past Georgian Dr. If you have any questions please let me know.

--

Bill Parco
GIS Lead
Veolia North America, New York Division

Grassi, Laura

From: UDig NY Exactix <tickets@exactix.udignny.org>
Sent: Monday, July 25, 2022 2:10 PM
To: Grassi, Laura
Subject: Message from UDig NY

Ticket: 07252-002-048-00 Type: Design Previous Ticket:

State: NY County: ROCKLAND Place: TOMKINS COVE
Addr: From: To: Name: BATTLEFIELD RD
Cross: From: To: Name:
Offset:

Locate:
NearSt: PARK RD
Means of Excavation: Blasting: N
Site marked with white: N
Boring/Directional Drilling: N
Within 25ft of Edge of Road: Y

Work Type: INSTALL ELECTRIC LINE
Estimated Work Complete Date: 07/28/2022
Depth of excavation:
Site dimensions:
Start Date and Time: 08/01/2022 07:00
Must Start By: 08/15/2022

Contact Name: LAURA GRASSI
Company: WSP USA, BUFFALO
Addr1: 50 LAKEFRONT BLVD Addr2: SUITE #111
City: BUFFALO State: NY Zip: 14202
Phone: 716-276-0193 Fax:
Email: laura.grassi@wsp.com
Field Contact: LAURA GRASSI
Alt Phone: 716-276-0193 Email: laura.grassi@wsp.com
Working for: NYS PUBLIC SERVICE COMMISSION

Comments: THE SOUTHERN BOUNDARY OF THE WORK AREA IS THE INTERSECTION OF PARK
: RD AND BATTLEFIELD RD.THE WORK AREA FOLLOWS APPROX 200 FT NORTH OF
: AN ACCESS ROAD THAT BRANCHES OFF OF BATTLEFIELD RD IMMEDIATELY NORTH
: OF THE INTERSECTION WITH PARK RD (THIS ACCESS RD IS SHOWN IN GOOGLE
: MAPS). WHERE THE ACCESS ROAD ENDS, THE WORK AREA CONTINUES IN A
: STRAIGHT LINE APPROX 300 FT INTO TO THE RIVER.
: WORKING ON BOTH SIDES OF THE STREET.
: PROPOSED DESIGN AREA: SEE COMMENTS
: PER CODE RULE 753 EACH OPERATOR SHALL PROVIDE A MEANS BY WHICH
: INFORMATION REGARDING THE LOCATION OF UNDERGROUND FACILITIES CAN BE
: OBTAINED FOR DESIGN PURPOSES.
: **THIS TICKET IS NOT A SUBSTITUTE FOR THE INTENT TO EXCAVATE**

: Lookup Type: MANUAL

Members:

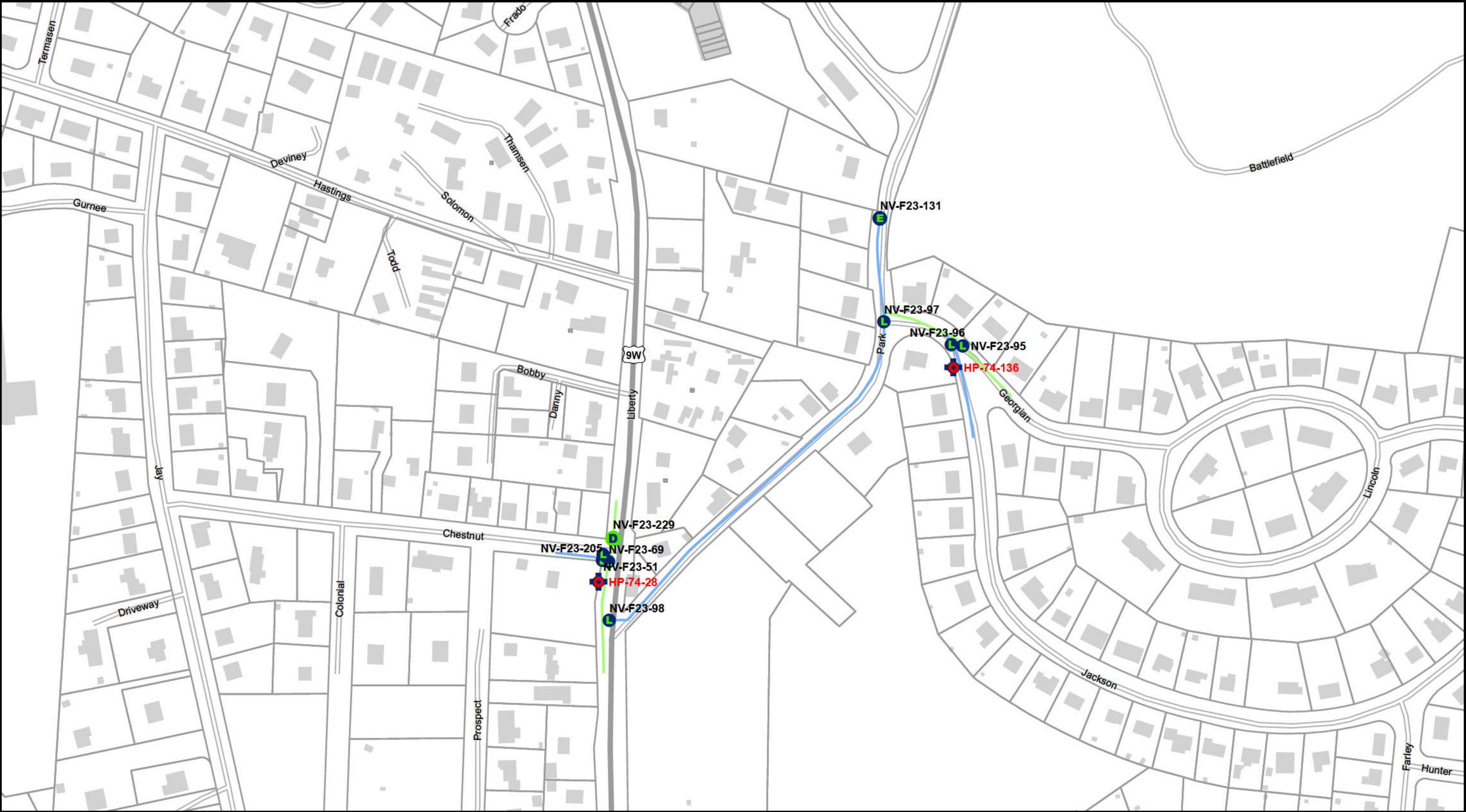
CABLEVISION OF WEST NYACK	201-651-4030
ORANGE & ROCKLAND UTILITIES INC. ROCK ORANGE	845-577-2374
SUEZ WATER NEW YORK	845-620-6227
TOWN OF STONY POINT	845-786-2716 x105


Grassi, Laura

From: Gallagher, Brendan J <GALLAGHERB@ORU.com>
Sent: Friday, July 29, 2022 8:29 AM
To: Grassi, Laura
Cc: Cole, Benjamin
Subject: RE: <External Sender> RE: Design Request - Battlefield Rd., Tomkins Cove (07252-002-48-00)
Attachments: Battlefield, Stony Point Electric.jpg

Thank you for clarifying. We have no gas in this area and all electric is overhead. I have provided a copy of our electric maps showing the overhead lines. If you have any questions, please let me know.

Brendan Gallagher
Orange and Rockland Utilities, Inc.
Operating Supervisor – Damage Prevention/Locating
766 West Nyack Road
West Nyack, New York 10994












360 West Nyack Rd West Nyack, NY10994
Phone: 845-623-1500

Drawn By: wparco

Date: 7/28/2022

Request #: req26264

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-  Line Valve
-  Division
-  Dead End
-  hydrant
-  6 inch, Distribution
-  8 inch, Distribution
-  hydrantBranch

Battlefield Rd, Stony Point, NY
Water Utility Schematic



1 inch = 200 feet



Grassi, Laura

From: UDig NY Exactix <tickets@exactix.udignyny.org>
Sent: Friday, July 29, 2022 7:01 PM
To: Grassi, Laura
Subject: Responses for UDig NY locate request 07252-002-048

Follow Up Flag: Follow up
Flag Status: Completed

This is a message from UDig NY's Automated Positive Response System (APR). Below is the response status from the facility operators associated with

Ticket # 07252-002-048

NY : ROCKLAND County, TOMKINS COVE
BATTLEFIELD RD

CABLEVISION OF WEST NYACK

- CLEAR, NO FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA
Comment - No Comment

ORANGE & ROCKLAND UTILITIES INC. | ROCK ORANGE

- MEETING CONFLICT, YOUR PROPOSED MEETING IS IN CONFLICT AND WE ARE UNABLE TO MEET ON SITE, UTILITY OWNER WILL ATTEMPT TO CONTACT YOU.
Comment - SENT CONTRACTOR CONFIDENTIALITY AGREEMENT

SUEZ WATER NEW YORK

- Has Not Responded

TOWN OF STONY POINT

- CLEAR, NO FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA
Comment - No Comment

For the most up-to-date response status please visit exactix.udignyny.org or call 888-DIGGERS(344-4377).

For location requests which provide the legal 2 full working days' notice, facility operators have until the stated commencement date and time to provide a response status.



CONTACT REPORT

TO: File

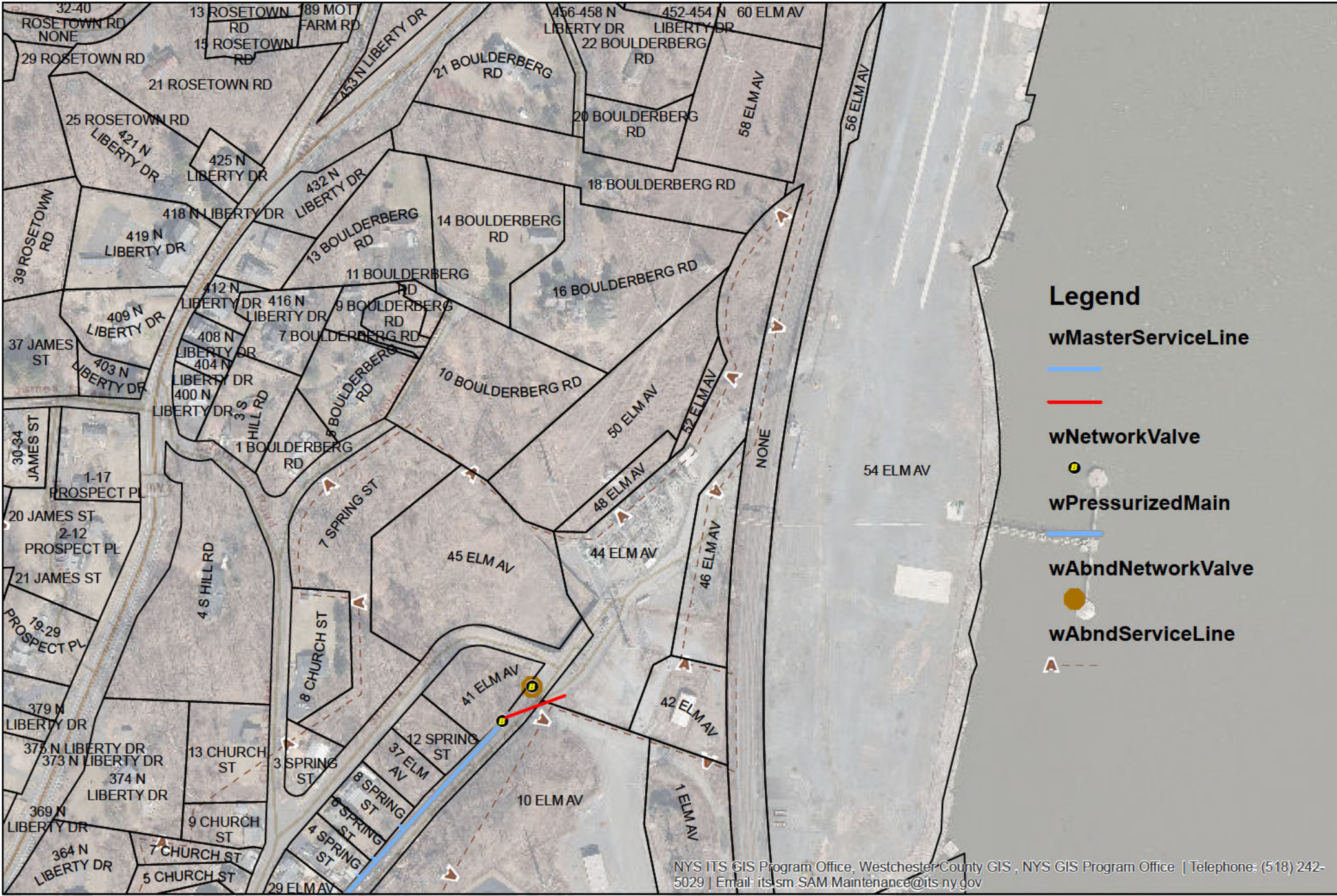
FROM: Laura Grassi

SUBJECT: Town of Stony Point Utilities at Transitional HDD

DATE: July 28, 2022

Called Karl Javenes, the Town of Stony Point Superintendent of Highways, to inquire about Town owned utilities in the area of the transitional HDD in Stony Point, NY. Javenes transferred me to someone else in the office, who confirmed that there are no Town owned utilities north of Battlefield Rd (which is the HDD area). The staff member said that the nearest buried utility is further south on Park Road and that the office had previously relayed that location to the CHPE project team.

Laura Grassi



360 West Nyack Rd West Nyack, NY10994 Phone: 845-623-1500	Drawn By: tlewis
	Date: 9/14/2022
	Sheet: of

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SCREENSHOT OF 54 TOMKINS COVE



Grassi, Laura

From: UDig NY Exactix <tickets@exactix.udignny.org>
Sent: Wednesday, August 31, 2022 12:40 PM
To: Grassi, Laura
Subject: Message from UDig NY

Ticket: 08312-001-353-00 Type: Design Previous Ticket:

State: NY County: ROCKLAND Place: STONY POINT
Addr: From: To: Name: ELM AVE
Cross: From: To: Name:
Offset:

Locate:
NearSt:
Means of Excavation: Blasting: N
Site marked with white: N
Boring/Directional Drilling: N
Within 25ft of Edge of Road: Y

Work Type: STAGING AREA
Estimated Work Complete Date: 09/06/2022
Depth of excavation:
Site dimensions:
Start Date and Time: 09/08/2022 07:00
Must Start By: 09/22/2022

Contact Name: LAURA GRASSI
Company: WSP USA, BUFFALO
Addr1: 50 LAKEFRONT BLVD Addr2: SUITE 111
City: BUFFALO State: NY Zip: 14202
Phone: 716-276-0193 Fax:
Email: laura.grassi@wsp.com
Field Contact: LAURA GRASSI
Alt Phone: 716-276-0193 Email: laura.grassi@wsp.com
Working for: NYS PUBLIC SERVICE COMMISSION

Comments: PROPOSED DESIGN AREA: WORK AREA INCLUDES 10, 42, 44, 46, AND 54 ELM
: AVE
: PER CODE RULE 753 EACH OPERATOR SHALL PROVIDE A MEANS BY WHICH
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: **THIS TICKET IS NOT A SUBSTITUTE FOR THE INTENT TO EXCAVATE**
: Lookup Type: MANUAL

Members:

ALGONQUIN GAS / SPECTRA ENERGY WEST	845-279-3001
CABLEVISION OF WEST NYACK	201-651-4030
ORANGE & ROCKLAND UTILITIES INC. ROCK ORANGE	845-577-2374
SUEZ WATER NEW YORK	845-620-6227
TOWN OF STONY POINT	845-786-2716 x105
VERIZON VALHALLA HUDSON VALLEY	914-741-8750

From: Grassi, Laura <Laura.Grassi@wsp.com>
Sent: Wednesday, August 31, 2022 4:47:05 PM
To: Damion Wilkins <Damion.Wilkins@enbridge.com>
Cc: Cole, Benjamin <Ben.Cole@wsp.com>
Subject: [External] RE: Dig Safe Ticket 08312-001-353-00, Stony Point at Elm Ave

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Were you expecting this email? TAKE A CLOSER LOOK. Is the sender legitimate?
DO NOT click links or open attachments unless you are 100% sure that the email is safe.

Thanks Damion!

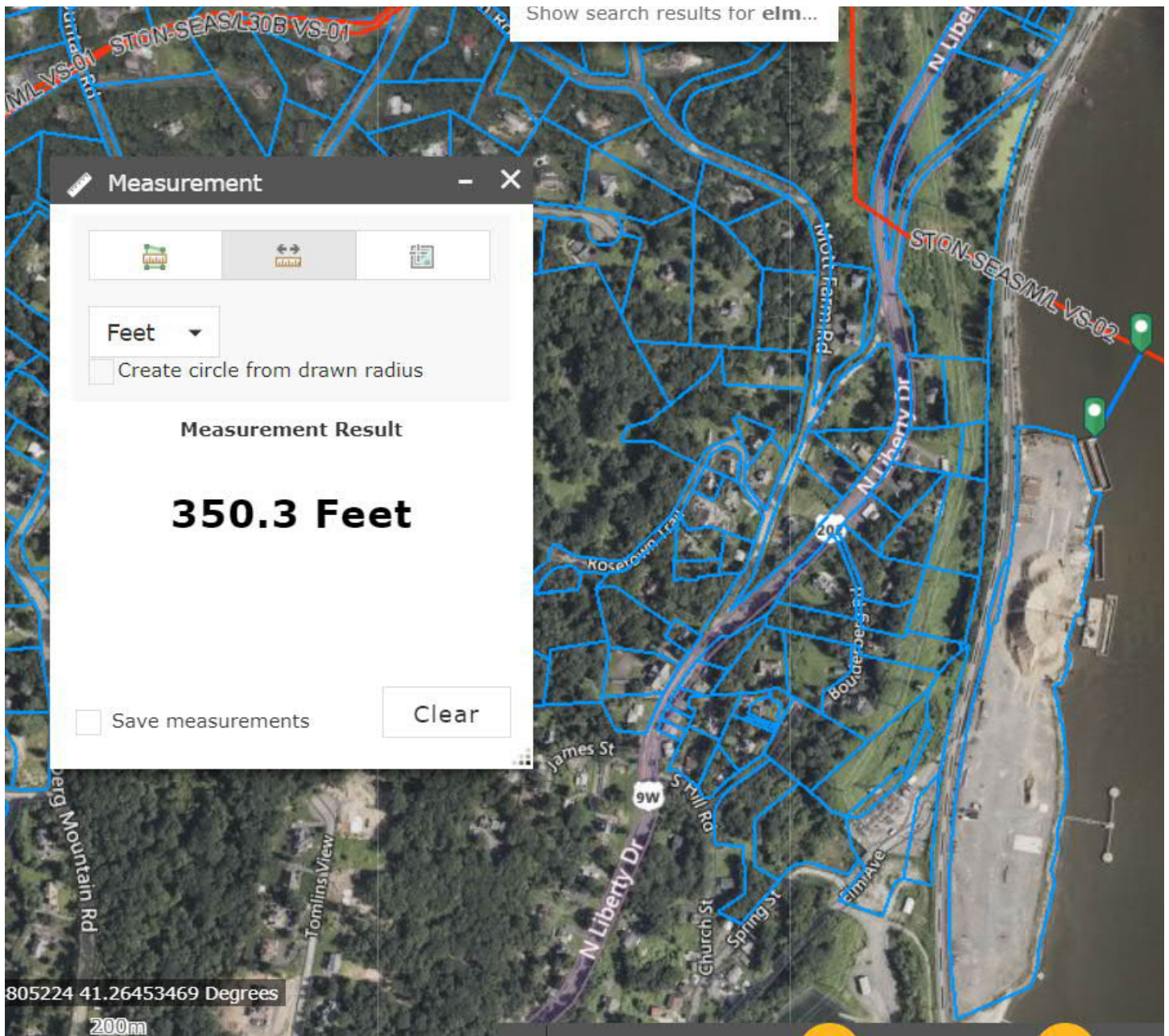
Yes, staging will not take place over the Enbridge line.

Thanks again,
Laura

From: Damion Wilkins <Damion.Wilkins@enbridge.com>
Sent: Wednesday, August 31, 2022 3:22 PM
To: Grassi, Laura <Laura.Grassi@wsp.com>
Cc: Cole, Benjamin <Ben.Cole@wsp.com>
Subject: RE: Dig Safe Ticket 08312-001-353-00, Stony Point at Elm Ave

Hi Laura,

Your very welcome, anytime. Below will be a snip showing the property and a measurement to our closest pipeline. Is it safe to assume that no staging will be going on over the water near my line?



Damion Wilkins

Senior Pipeline Technician

ENBRIDGE

Algonquin Gas Transmission

Texas Eastern Gas Transmission

TEL: 973-644-2640 | CELL: 908-967-9205 | Damion.Wilkins@Enbridge.com

45 Airport Rd, Morristown, NJ 07960

enbridge.com

Integrity. Safety. Respect.

Hi Laura,

Please edit the existing confidentiality agreement to include the addresses/area for the new work area and that will work for me.

Brendan Gallagher
Orange and Rockland Utilities, Inc.
Operating Supervisor – Damage Prevention/Locating
766 West Nyack Road
West Nyack, New York 10994

From: Grassi, Laura <Laura.Grassi@wsp.com>
Sent: Tuesday, September 6, 2022 1:56 PM
To: Gallagher, Brendan J <GALLAGHERB@ORU.com>
Cc: Cole, Benjamin <Ben.Cole@wsp.com>
Subject: <External Sender> RE: Design Request - Elm Ave, Stony Point (08312-001-353-00)

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STOP WHEN UNSURE. Never click on links or open attachments if sender is unknown, and never provide your email address or password. Suspicious? Use the Phish Reporter (for mobile phones, forward message to Email Security).

Hi Brendan,

We had previously spoken regarding utility location at a different area of the project site. Attached is a copy of the NDA sent on 7/28/22.

Regards,
Laura

From: Gallagher, Brendan J <GALLAGHERB@ORU.com>
Sent: Tuesday, September 6, 2022 12:04 PM
To: Grassi, Laura <Laura.Grassi@wsp.com>
Subject: Design Request - Elm Ave, Stony Point (08312-001-353-00)

Good afternoon,

I see the design request for the above project. Please fill out the attached confidentiality agreement and I can send a copy of our maps over.

Brendan Gallagher
Orange and Rockland Utilities, Inc.
Operating Supervisor – Damage Prevention/Locating
766 West Nyack Road
West Nyack, New York 10994
O: 845-577-2321

Grassi, Laura

From: Lee, Albert <albert.lee@verizon.com>
Sent: Monday, September 12, 2022 1:19 PM
To: Kurihara, Kei
Cc: Hill, Nathaniel RT (Nate); Grassi, Laura; CHPE Doccontrol; Cole, Benjamin
Subject: Re: [E] Utility Locate Request 08312-001-353
Attachments: 4050.tif

Follow Up Flag: Follow up
Flag Status: Flagged

Hello Laura

Attached is the legacy print of the copper network that corresponds with the map you highlighted.

All of the copper lines are overhead around the Spring St and Elm Av intersection.

There is an underground copper cable going north from the entrance of the O&R substation at the corner of Spring St and Elm Av, and continue to the other side of the railroad tracks on the east side. I'm not sure if these lines are only working concentrated at the substation or beyond. O&R should be able to identify their locations..

Grassi, Laura

From: Karl Javenes <KJavenes@townofstonypoint.org>
Sent: Friday, September 9, 2022 8:44 AM
To: Grassi, Laura
Cc: Cole, Benjamin
Subject: Re: Utility Locate Request 08312-001-353

Follow Up Flag: Follow up
Flag Status: Flagged

Sewer is the only utility we would own. All others such as electrical, phone and cable and water are private.

Get [Outlook for iOS](#)

From: Grassi, Laura <Laura.Grassi@wsp.com>
Sent: Friday, September 9, 2022 8:27:01 AM
To: Karl Javenes <KJavenes@townofstonypoint.org>
Cc: Cole, Benjamin <Ben.Cole@wsp.com>
Subject: RE: Utility Locate Request 08312-001-353

Hi Karl,

Just to clarify, the Town doesn't have any sewer lines in the area but there may be other Town owned utilities in the area? If so, would you be able to provide me with contact information for any other Town employees I should check with?

Thank you,
Laura

From: Karl Javenes <KJavenes@townofstonypoint.org>
Sent: Thursday, September 8, 2022 2:36 PM
To: Grassi, Laura <Laura.Grassi@wsp.com>
Cc: Cole, Benjamin <Ben.Cole@wsp.com>
Subject: RE: Utility Locate Request 08312-001-353

We have no sewers at that location. All other utilities will need to be marked by others.

From: Grassi, Laura <Laura.Grassi@wsp.com>
Sent: Thursday, September 8, 2022 2:28 PM
To: Karl Javenes <KJavenes@townofstonypoint.org>
Cc: Cole, Benjamin <Ben.Cole@wsp.com>
Subject: Utility Locate Request 08312-001-353

Hi Karl,

I'm reaching out about a recent UDig NY ticket that I submitted (Ticket # 08312-001-353). The UDig NY response noted that the Town of Stony Point has utilities in the area, but no utility information was provided. Would you be able to

provide me with a figure showing the Towns utilities in the area? I've included a figure of the area in question (primarily 54 Elm Ave, Tomkins Cove, NY 10986) below.

Please note that the area in question will only be utilized as a staging area and no impact to utilities is anticipated.

Thank you,
Laura

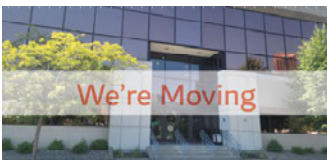


Laura Grassi, P.E.
Senior Consultant, Environmental Engineer

WSP USA (formerly Ecology and Environment, Inc.)
Please note the new email address.

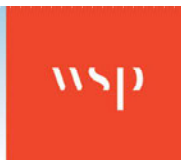


wsp.com



WSP USA
40 La Riviere Drive, Suite 320
Buffalo, NY 14202

Effective: September 12, 2022



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From: Lewis, Tania <tania.lewis@veolia.com>
Sent: Wednesday, September 14, 2022 10:39 AM
To: Grassi, Laura <Laura.Grassi@wsp.com>
Cc: bill.madden@veolia.com; Cole, Benjamin <Ben.Cole@wsp.com>; CHPE Doccontrol
<CHPEDocControl@portal3.pbid.com>
Subject: Re: Utility Location In Tomkins Cove NY

Good morning,

Can you provide an address range please? There are services, valves, hydrants and a 8" main- but beyond 44 Elm all mains are abandoned in GIS.



Grassi, Laura

From: UDig NY Exactix <tickets@exactix.udignyny.org>
Sent: Wednesday, September 7, 2022 7:01 PM
To: Grassi, Laura
Subject: Responses for UDig NY locate request 08312-001-353

Follow Up Flag: Follow up
Flag Status: Flagged

This is a message from UDig NY's Automated Positive Response System (APR). Below is the response status from the facility operators associated with

Ticket # 08312-001-353

NY : ROCKLAND County, STONY POINT
ELM AVE

ALGONQUIN GAS / SPECTRA ENERGY | WEST

- CLEAR, NO FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA
Comment - No Comment

CABLEVISION OF WEST NYACK

- CLEAR, NO FACILITIES WITHIN 15 FT OF THE EXCAVATOR DEFINED WORK AREA
Comment - No Comment

ORANGE & ROCKLAND UTILITIES INC. | ROCK ORANGE

- MEETING CONFLICT, YOUR PROPOSED MEETING IS IN CONFLICT AND WE ARE UNABLE TO MEET ON SITE, UTILITY OWNER WILL ATTEMPT TO CONTACT YOU.
Comment - SENT CONTRACTOR CONFIDENTIALITY AGREEMENT

SUEZ WATER NEW YORK

- Has Not Responded

TOWN OF STONY POINT

- DESIGN CONFLICT, PLEASE SHARE DESIGN DRAWINGS WITH OUR ENGINEERING DEPT. UTILITY OWNER WILL ATTEMPT TO CONTACT YOU.
Comment - No Comment

VERIZON | VALHALLA HUDSON VALLEY

- Has Not Responded

For the most up-to-date response status please visit exactix.udignyny.org or call 888-DIGGERS(344-4377).

For location requests which provide the legal 2 full working days' notice, facility operators have until the stated commencement date and time to provide

a response status.

Grassi, Laura

From: agt_comm@irth.com
Sent: Tuesday, September 13, 2022 2:41 PM
To: Grassi, Laura
Subject: Ticket 08312-001-353 - Dig Safely Markout

Follow Up Flag: Follow up
Flag Status: Flagged

=====

To: WSP USA, BUFFALO Attn: LAURA GRASSI
Voice: 7162760193 Fax:
Re: Dig Safely Markout

This is an important message from Verizon Westchester replying to your request to locate our underground facilities per the dig site information provided by the one call center ticket.

=====

Ticket: 08312-001-353
County: ROCKLAND Place: STONY POINT
Address: ELM AVE

BELL-VALHALLA / HDSN VLY:

Verizon has marked our facilities per the dig site information provided by the one call center ticket with paint. If you have any questions about this, please call Verizon at 516.832.2540 M-F 8 AM - 5 PM and 888.804.3626 OUT of hours.

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If you have any questions please contact Verizon Westchester.

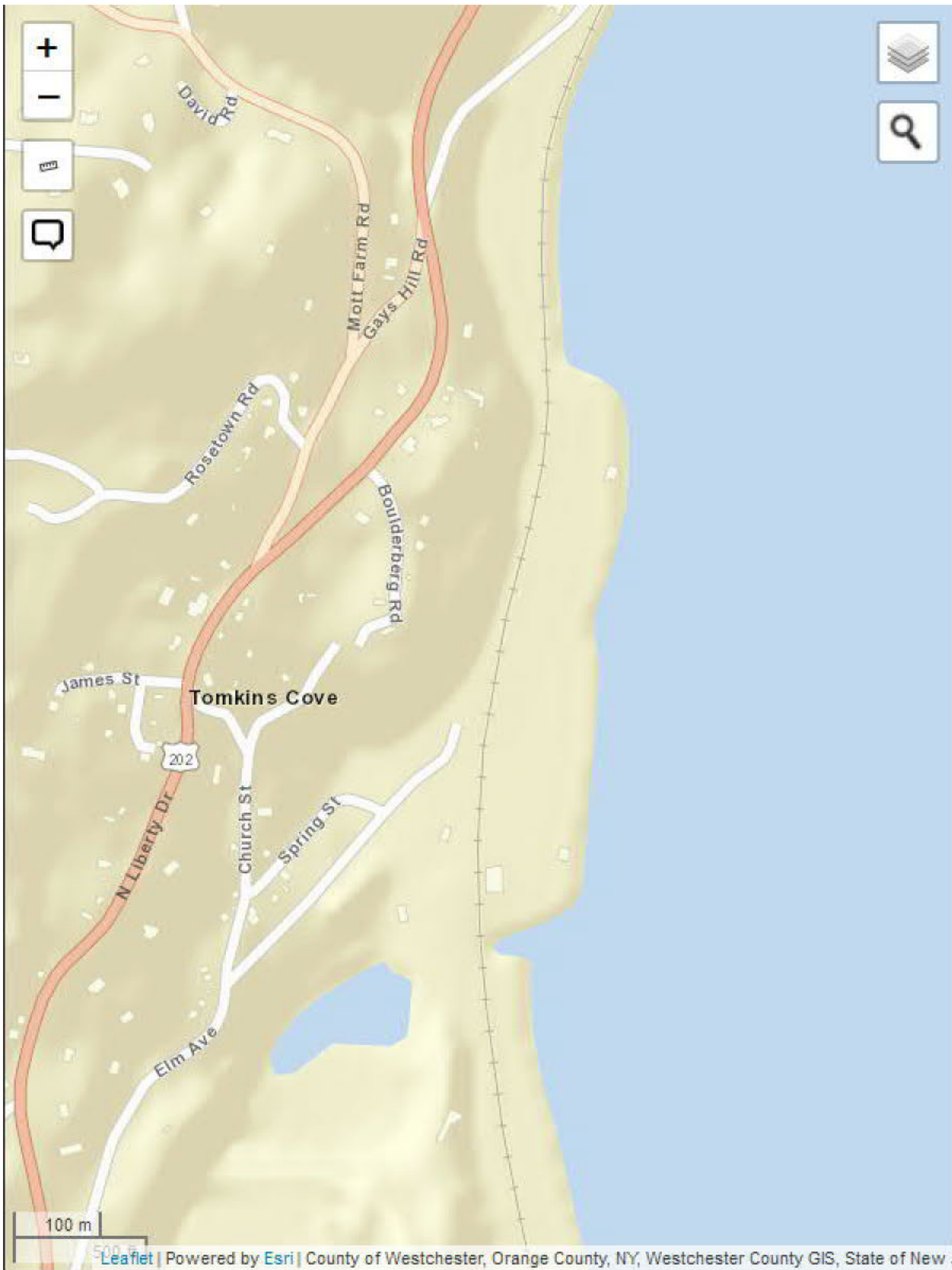
=====

This message was generated by an automated system. Please do not reply to this email.

From: cl_irth_comm@irth.com
Sent: Thursday, September 1, 2022 10:08 AM
To: Grassi, Laura
Subject: Ticket 08312-001-353 - Response to your One Call locate request

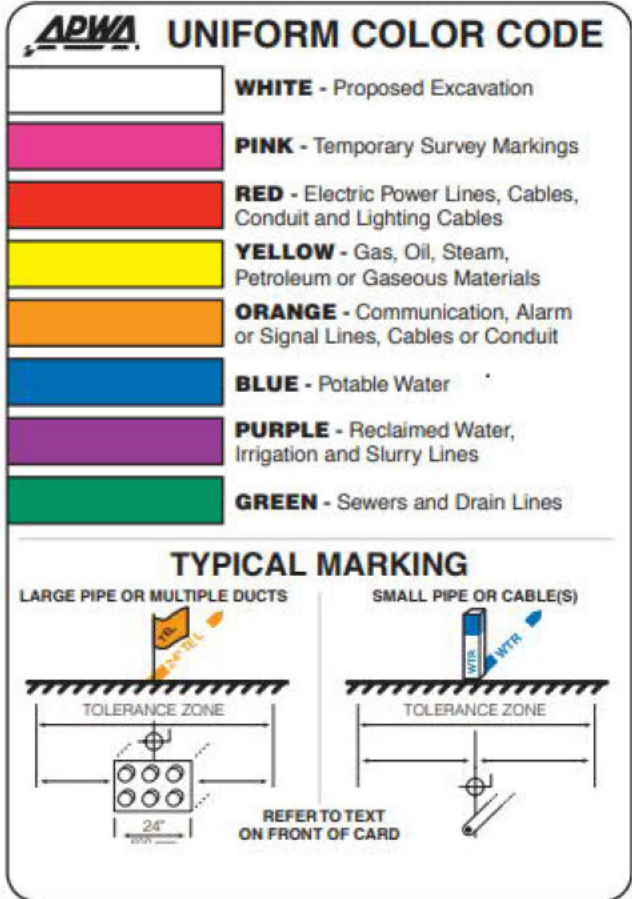
To: WSP USA Attn: LAURA GRASSI
Voice: 7162760193 Fax:
Re: Response to your One Call locate request
Notification from Texas Eastern Transmission Pipeline

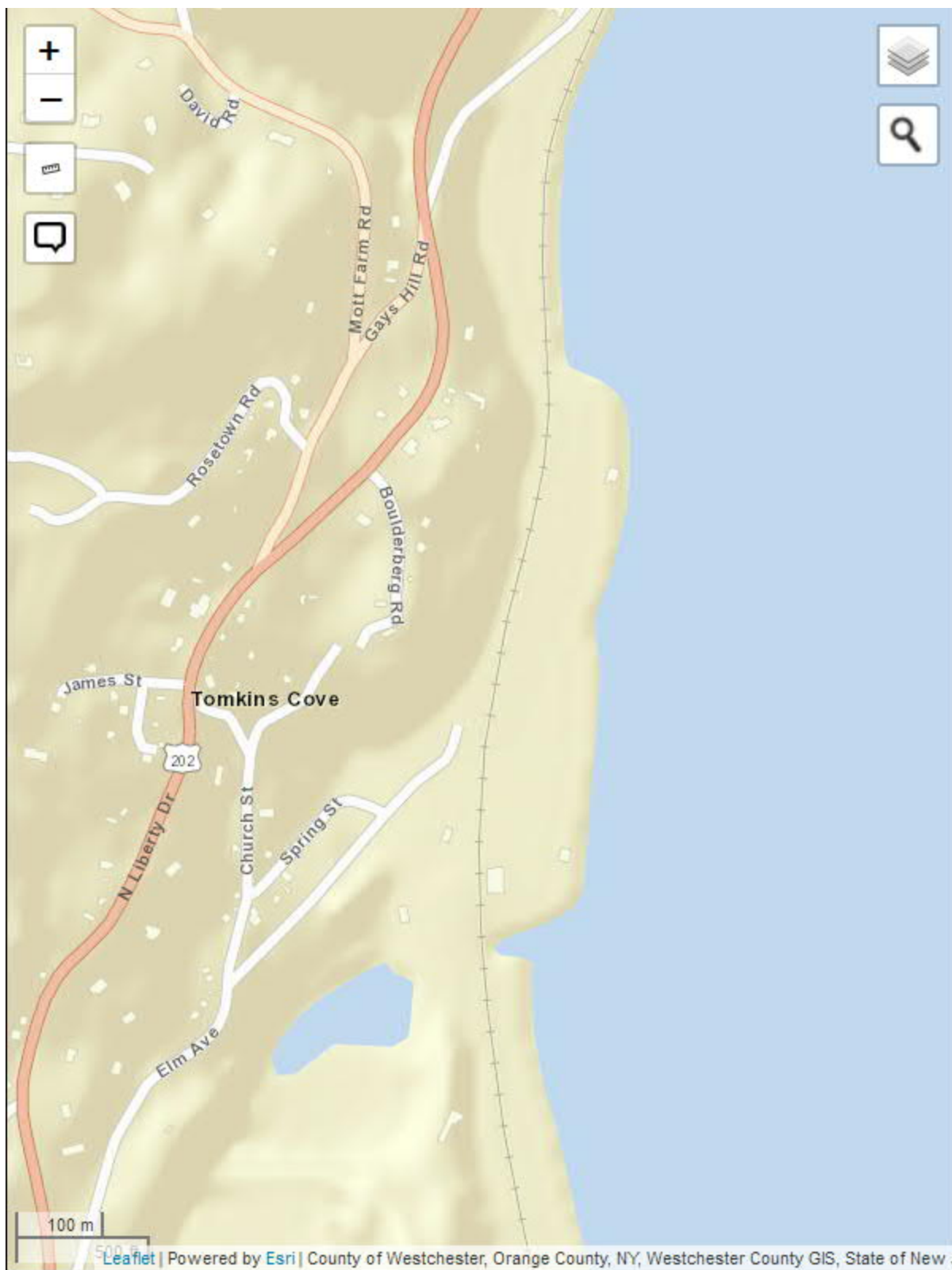
ALGONQUIN GAS / WEST:



Algonquin Gas Transmission

NO CONFLICT

ONE CALL REQUEST TICKET NUMBER & CODE	TICKET BEING DONE FOR
08312-001-353 ALGONQUIN GAS / WEST	NYS PUBLIC SERVICE COMMISSION
TYPE OF WORK	TICKET TYPE
STAGING AREA	Design
LOCATOR	LOCATOR EMAIL
Damion Wilkins	Damion.Wilkins@enbridge.com
SITE / TICKET INFORMATION	EXCAVATOR INFORMATION
Address: ELM AVE Place: STONY POINT State: NY Cross Street: Near Street:	Contact: LAURA GRASSI Company: WSP USA Email: LAURA.GRASSI@WSP.COM Phone: 7162760193
	ALTERNATIVE EXCAVATOR CONTACT
Ticket Creation: 08/31/2022 12:39:53 PM Ticket Due Time: 09/08/2022 11:59:00 PM Work Start Time: 09/08/2022 07:00:00 AM	Alternate Contact: LAURA GRASSI Alternate Contact Phone: 7162760193
LOCATOR RESPONSE	
Should you feel that Enbridge Gas Transmission or any other company assets will in fact be affected by your excavation or if the location provided to the One-Call agency changes or you now believe the description to be inaccurate, please contact Enbridge Gas Transmission at GTMDamagePrevention@Enbridge.com	 <p>APWA. UNIFORM COLOR CODE</p> <ul style="list-style-type: none"> WHITE - Proposed Excavation PINK - Temporary Survey Markings RED - Electric Power Lines, Cables, Conduit and Lighting Cables YELLOW - Gas, Oil, Steam, Petroleum or Gaseous Materials ORANGE - Communication, Alarm or Signal Lines, Cables or Conduit BLUE - Potable Water PURPLE - Reclaimed Water, Irrigation and Slurry Lines GREEN - Sewers and Drain Lines <p>TYPICAL MARKING</p> <p>LARGE PIPE OR MULTIPLE DUCTS</p> <p>TOLERANCE ZONE</p> <p>24"</p> <p>SMALL PIPE OR CABLE(S)</p> <p>TOLERANCE ZONE</p> <p>REFER TO TEXT ON FRONT OF CARD</p>



Should you feel that a Spectra Energy pipeline or any other company assets will in fact be affected by your excavation or if the location provided to the one-call agency changes or you now believe the description to be inaccurate, please contact Spectra Energy Transmission at GTMDamagePrevention@enbridge.com

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