

APPENDIX R:
DOCUMENTATION OF CI CONSULTATIONS
HAVING OCCURRED
CASE 10-T-0139

Champlain Hudson Power Express Upland Co-Located Utility Summation Matrix											
Revision Date: 07/18/2022											
Segment(s)	General Location of Utility		Owner	Utility	Size	Invert/Depth (feet)	Utility Length (feet)	Utility		Comments	Quality Level (A/B/C/D)
	Station Point for Parallel and Crossing Point for Perpendicular	Station (Starting Point for Parallel and Crossing Point for Perpendicular)						Parallel/ Perpendicular	Description (optional)		
	51003+45		Town of Bethlehem	Storm Sewer	15"	199.5		Perpendicular	HPDE		B
	51004+30		Town of Bethlehem	Water Line	12"			Perpendicular	At intersection		B
	51004+05		Gateway Delmar LLC	UG Utility (Gas)	8"			Perpendicular	At intersection		B
	51004+60		National Grid	OH Utility (Electric)				Perpendicular	Overhead Power lines both direction at corner of Route 32 and W Yard Rd		B
	51004+60		Time Warner	OH Utility (Fiber)				Perpendicular	Overhead Fiber Optics both direction at corner of Route 32 and W Yard Rd		B
	51007+06		Town of Bethlehem	Storm Sewer	15"	199.5		Perpendicular	HPDE		B
	51008+15		Verizon	UG Utility (Telephone)				Perpendicular	West side of W Yard Rd		B
	51008+50		National Grid	OH Utility (Electric)				Perpendicular	West side of W Yard Rd		D
	51009+85		Town of Bethlehem	Storm Drainage Pipe/Culvert	42"	219.4		Perpendicular	Steel		B
	51008+00	51022+25	Verizon	UG Utility (Telephone)				Parallel	West side of W Yard Rd - crosses at Sta 51022+25		B
	51013+75	51031+00	Time Warner	UG Utility (Fiber)				Parallel	Fiber or Coax to Ped on South Side of S Albany Rd - ~5' off Edge of Pavement		B
	51022+18		Time Warner	UG Utility (Fiber)				Perpendicular	UG Fiber optic crossing W Yard Rd		
	51025+75	51026+00	Town of Bethlehem	Storm Sewer	18"	214.7	25	Parallel	HDPE		B
	51035+75		Time Warner	UG Utility (Fiber)				Perpendicular	Underground service connection		B
	51036+50		National Grid	OH Utility (Transmission)				Perpendicular	(3) Overhead Transmission Lines crossing Yard Rd		B
	51040+00	51060+75	Time Warner	UG Utility (Fiber)			2075	Parallel	Underground Fiber along West side of Yard Rd		B
	51040+95	51041+15	Town of Bethlehem	Storm Sewer	18"	214.2	20	Parallel	HDPE		B
	51041+90		Town of Bethlehem	Storm Sewer	24"	212.7		Perpendicular	HDPE		B
	51042+16		National Grid	OH Utility (Electric)				Perpendicular	Overhead Service Line		B
	51053+65	51056+00	Private	Storm Drainage Pipe/Culvert	12"	201.1	235	Parallel	CMP - Private East Side of W Yard Rd		B
	51055+20		Town of Bethlehem	Storm Drainage Pipe/Culvert	36"	199.1		Perpendicular	CMP		B
	51054+60	51055+50	Private	Storm Drainage Pipe/Culvert	24", 12"	201	90	Parallel	CMP, CMP		B
	51060+85		National Grid	OH Utility (Electric)				Perpendicular	Overhead Power lines - W Yard Rd		B
	51063+00	51082+50	City of Albany	Water Line				Parallel	Parallels trail on East side		B
	51084+30		National Grid	OH Utility (Electric)				Perpendicular	Overhead Electric Transmission - S Albany Rd		B
	51084+30		Time Warner	OH Utility (Fiber)				Perpendicular	Overhead Fiber Optics - S Albany Rd		B

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	Station Point for Parallel and Crossing Point for Perpendicular	Station (Starting Point for Parallel and Crossing Point for Perpendicular)						Parallel/ Perpendicular	Description (optional)		
Segment 9	51084+00	51138+22	Verizon	UG Utility (Telephone)			5422	Parallel	On South side of S Albany Rd		B
	51094+70		Town of Bethlehem	Storm Drainage Pipe/Culvert	30"	174.1		Perpendicular	CMP - Southern Terminus not Found		B
	51100+65		Time Warner	UG Utility (Fiber)				Perpendicular	Coax Service Connection		B
	51101+90		Town of Bethlehem	Storm Drainage Pipe/Culvert	12"	175.7		Perpendicular	CMP - S Albany Rd		B
	51102+10		National Grid	OH Utility (Electric)				Perpendicular	Overhead Electric Service - S Albany Rd		B
	51103+55		National Grid	OH Utility (Electric)				Perpendicular	Overhead Electric Service - S Albany Rd		B
	51104+55		National Grid	OH Utility (Electric)				Perpendicular	Overhead Electric Service - S Albany Rd		B
	51107+80	51108+10	Town of Bethlehem	Storm Drainage Pipe/Culvert	12"	171.1	30	Parallel	CMP - Private on South Side of S Albany Rd		B
	51108+30		City of Albany	Water Line	48"	~164.28		Perpendicular	Water Main to Treatment Plant/Lift Station	As-built info provided to KEGI on 10/10/22, need a test hole. Special encasing applies	B
	51108+55		Town of Bethlehem	Storm Drainage Pipe/Culvert	24"	170.4		Perpendicular	CMP		B
	51109+00		National Grid	OH Utility (Electric)				Perpendicular	Overhead Service - S Albany Rd - Fiber transition to underground		B
	51109+00	51134+45	Level 3	UG Utility (Fiber)			2545	Parallel	On South side of S Albany Rd		B
	51112+51		Town of Bethlehem	Storm Drainage Pipe/Culvert	24"	161.5		Perpendicular	CMP		B
	51113+75		Town of Bethlehem	Storm Drainage Pipe/Culvert	60"	155.5		Perpendicular	CMP		B
	51116+55	51132+10	City of Albany	Water Line			1555	Parallel	~25' off Edge of Pavement on South Side of S Albany Rd and crosses at Sta 51116+55		B
	51117+50		Verizon	UG Utility (Telephone)				Perpendicular	Coax Service Connection		B
	51117+50	51132+95	Level 3	UG Utility (Fiber)			1545	Parallel	On South side of S Albany Rd		B
	51117+50	51132+95	Verizon	UG Utility (Telephone)			1545	Parallel	On South side of S Albany Rd		B
	51131+80		City of Albany	Water Line				Perpendicular	(2) Mains cross at this location		B
	51131+90		City of Albany	Water Line				Perpendicular	(2) Mains cross at this location		B
	51132+75	51133+00	Town of Bethlehem	Storm Drainage Pipe/Culvert	12"	167.3	25	Parallel	CMP		B
	51134+57		Town of Bethlehem	Storm Drainage Pipe/Culvert	12"	164.9		Perpendicular	CMP		B
	51137+95		National Grid	OH Utility (Electric)				Perpendicular	Overhead Electric Service - S Albany Rd		B
	51140+40	51141+10	Town of Bethlehem	Storm Drainage Pipe/Culvert	8"	161.1	70	Parallel	HDPE		B
	51140+75		National Grid	OH Utility (Electric)				Perpendicular	Overhead Electric Service - S Albany Rd		B
	51141+00		Town of Bethlehem	Storm Drainage Pipe/Culvert	24"	163.3		Perpendicular	CMP		B

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	Station Point for Parallel and Crossing Point for Perpendicular	Station (Ending Point for Parallel)						Parallel/ Perpendicular	Description (optional)		
	51142+30		National Grid	OH Utility (Electric)				Perpendicular	Overhead Electric Service - S Albany Rd		B
	51144+00		Town of Bethlehem	Storm Drainage Pipe/Culvert	14"	158.6		Perpendicular	CMP - S Albany Rd/Elm St		B
	51144+50		National Grid	OH Utility (Electric)				Perpendicular	Overhead Electric - S Albany Rd/Elm St		B
	51147+90		Town of Bethlehem	Storm Drainage Pipe/Culvert	96"	137.4		Perpendicular	CMP - S Albany Rd		B
	51150+00	51150+60	Town of Bethlehem	Storm Drainage Pipe/Culvert	12"	161.2	60	Parallel	CMP - West Side of S Albany Rd		B
	51152+30		National Grid	OH Utility (Electric)				Perpendicular	Overhead Electric Service - S Albany Rd		B
	51153+20		Time Warner	UG Utility (Telephone)				Perpendicular	Coax Service Connection		B
	51154+05		National Grid	OH Utility (Electric)				Perpendicular	Overhead Electric - S Albany Rd		B
	51155+44		Town of Bethlehem	Storm Drainage Pipe/Culvert	96"X72"	140.6		Perpendicular	Concrete Box - S Albany Rd		B
	51158+21		Town of Bethlehem	Storm Drainage Pipe/Culvert	12"	157.4		Perpendicular	CMP - S Albany Rd		B
	51160+45	51160+70	Town of Bethlehem	Storm Drainage Pipe/Culvert	15"	162.3	25	Parallel	CMP - West Side of S Albany Rd		B
	51165+58		Town of Bethlehem	Storm Drainage Pipe/Culvert	24"	157.5		Perpendicular	CMP - S Albany Rd		B
	51167+50	51168+00	Town of Bethlehem	Storm Drainage Pipe/Culvert	15"	164.8	50	Parallel	CMP - West Side of S Albany Rd		B
	51168+00		National Grid	OH Utility (Electric)				Perpendicular	Overhead Electric Service - S Albany Rd		B
	51170+00	51170+25	Town of Bethlehem	Storm Drainage Pipe/Culvert	15"	164.9	25	Parallel	HDPE - West Side of S Albany Rd		B
	51170+02		National Grid	OH Utility (Electric)				Perpendicular	Overhead Electric Service - S Albany Rd		B
	51170+75		National Grid	OH Utility (Electric)				Perpendicular	Overhead Electric Service - S Albany Rd		B
	51171+00	51171+50	Town of Bethlehem	Storm Drainage Pipe/Culvert	15"	165.6	50	Parallel	HDPE - West Side of S Albany Rd		B
	51171+20		National Grid	OH Utility (Electric)				Perpendicular	Overhead Electric Service - S Albany Rd		B
	51172+58		National Grid	OH Utility (Electric)				Perpendicular	Overhead Electric Service - S Albany Rd		B
	51172+75		Time Warner	UG Utility (Telephone)				Perpendicular	Underground coax service connection		B
	51174+90	51175+20	Town of Bethlehem	Storm Drainage Pipe/Culvert		165.4	30	Parallel	West Side of S Albany Rd		B
	51175+95		Time Warner	UG Utility (Telephone)				Perpendicular	Underground telephone (coax) on East side of S Albany Rd		B
	51176+48		National Grid	OH Utility (Electric)				Perpendicular	Overhead Electric Lines - Fiber Tran to Underground		B
	51199+50	51202+00	Town of Bethlehem	Water Line			250	Parallel	(2) Water Main Corridor North of Alignment		B
	51208+50		National Grid	OH Utility (Electric)				Perpendicular	Overhead Transmission Lines	Going directly through powerpole	B

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	Station (Starting Point for Parallel and Crossing Point for Perpendicular)	Station (Ending Point for Parallel)						Parallel/ Perpendicular	Description (optional)		
	51216+75		National Grid	OH Utility (Electric)				Perpendicular	Overhead Transmission Lines		B
	51240+25		Town of Bethlehem	Water Line				Perpendicular	Water Main crosses North of Bridge St	HDD Section, deep under water	B
	51243+95		Town of Bethlehem	Storm Drainage Pipe/Culvert	72"	119.3		Perpendicular	RCP	HDD Section, deep under storm	B
	51246+25		National Grid	OH Utility (Electric)				Perpendicular	Overhead Transmission South of Bridge St		B

Utility quality level defined as follows:

Four separate quality levels of subsurface utility facility information are generally recognized and are as follows:

- **Quality Level A (QLA):** Quality Level A is the highest degree of accuracy. The information shown on the plans has been obtained by the actual exposure (or verification of previously exposed and surveyed utility facilities) of subsurface utilities, using (typically) minimally intrusive excavation equipment to determine their precise horizontal and vertical positions, as well as their other utility facility attributes. (Shown as QLA)
- **Quality Level B (QLB):** Quality Level B is the second highest degree of accuracy. The information shown on the plans has been obtained through the application of appropriate surface geophysical methods (i.e., underground cameras, radar, sonar, tone suite, etc.) to identify the existence and appropriate horizontal position of subsurface utility facilities. Quality Level B data are reproducible by surface geophysics at any point of their depiction. The information was surveyed to applicable tolerances and reduced onto the plans. No excavations were performed. (Shown as QLB)
- **Quality Level C (QLC):** Quality Level C is the third highest degree of accuracy. The information shown on the plans has been obtained by surveying and plotting visible above-ground utility features and by using professional judgment in correlating this information to Quality Level D information. (Shown as QLC)
- **Quality Level D (QLD):** Quality Level D is the lowest degree of accuracy. The information shown on the plans was derived solely from existing NYSDOT and/or utility company records or recollections. (Shown as QLD)

UTILITY SUMMARY

OH Utility (Fiber)	6
OH Utility (Transmission)	5
OH Utility (Electric)	54
OH Utility (Telephone)	4
UG Utility (Fiber)	32
UG Utility (Electric)	25
UG Utility (Gas)	12
UG Utility (Telephone)	17
Sanitary Sewer	0
Water Line	24
Storm Drainage Pipe/Culvert	72
Storm Sewer	10
Total Utilities	261
OH Utilities	69
UG Utilities	192

**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, NYSDOT, 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

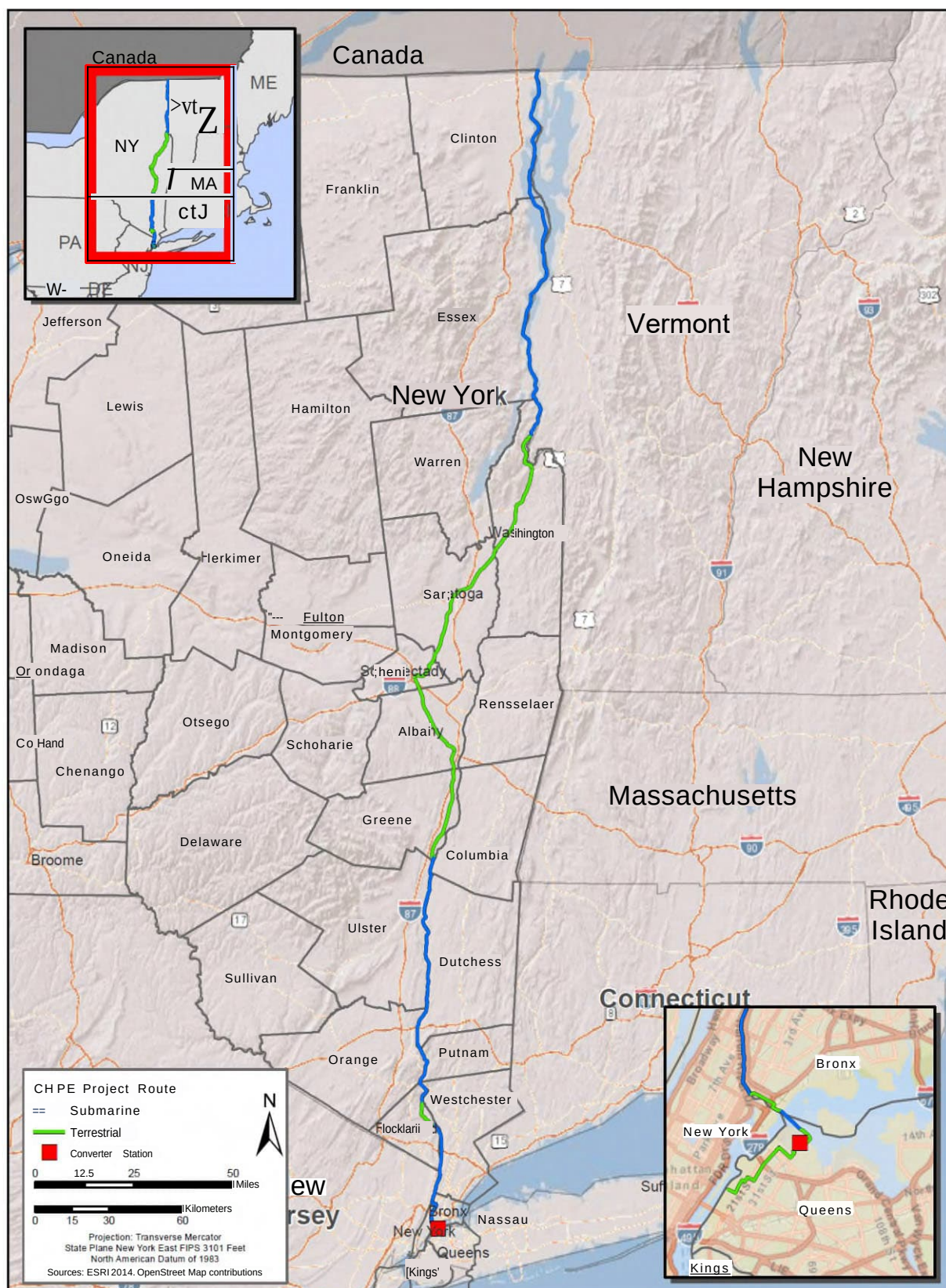
under all buried infrastructure. TDI will accomplish that by working with the CI-owners to establish the best methodology for exposing, supporting, and performing our cable installation under the existing infrastructure. (Typical crossing under CI - Attachment C)

- 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

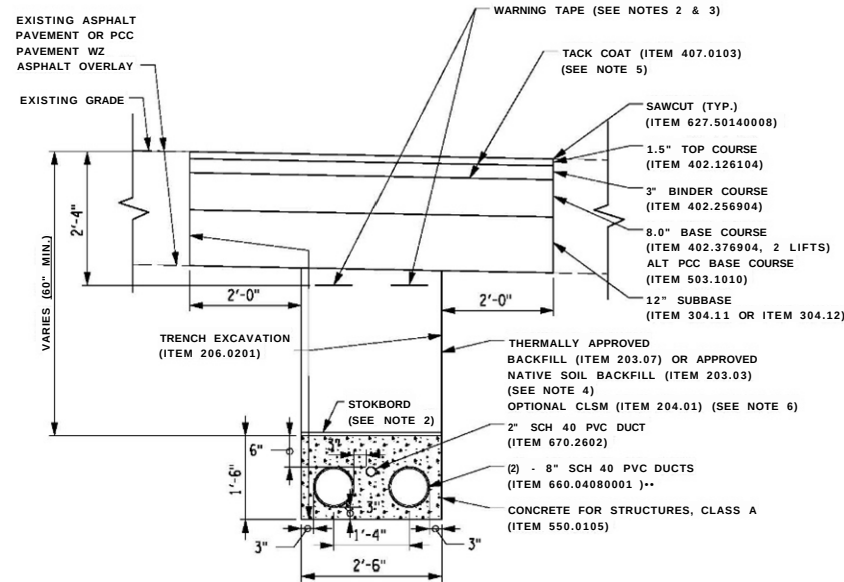
constructed to allow the proposed HVDC cables to be self-supported across the span in the event the storm culverts require future repair or replacement. (Typical CI support- Attachment E.)

- As part of development of a crossing plan for your CI, TDI will work with the respective CI owners, to:
 - o 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
 - o Confirm proposed crossing installation including the requirements for CI temporary support.
 - o 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\"/>

ITEM	DESCRIPTION
203.07	EMBANKMENT IN PLACE
206.0201	SELECT GRANULAR FILL
206.0201	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 FI 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_mZW 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.

APPROVED ON:	APPROVED ON:
SIGNATURE:	SIGNATURE:
DATE:	DATE:

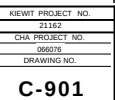
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL SIGN 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	SYM

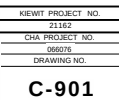
TOUOKSIOHOCVELOHKS.HC.
1301 AVENUE OF THE AMERICAS
NEW YORK, NY 10019-6022

A=COM

TITLE OF PROJECT CLAMPLAIN HUDSON POTER EXPRESS	CONTRACT NUMBER 60323056
LOCATION OF PROJECT	DATE 03/04/2021
BY OR FOR TYPICAL TRENCH CROSS SECTION WITH PVC CONDUIT IN DXTBAM	DRAWING NUMBER



DRAWN BY: WSO		DESIGNED BY: WSO		APPROVED BY:		SCALE	AS NOTED	DATE	11/02/2021
						REV. NO.	A	SH.NO.	XXX OF XXX



DRAWN BY: WSO		DESIGNED BY: WSO		APPROVED BY:		SCALE	AS NOTED	DATE	XX/XX/XXXX
						REV. NO.	A	SH. NO.	XXX OF XXX

From: Cole, Benjamin <Ben.Cole@wsp.com>
Sent: Wednesday, October 5, 2022 1:25 PM
To: Philip.Tanedo; Daniel.Keener; Justine.Rojas; Tylor.Bottorff
Subject: [EXTERNAL] City of Albany Package 5B CI Info
Attachments: Albany 48-inch transmission main; Re_ Transmission Mains - City of Albany.msg

Follow Up Flag: Follow up
Flag Status: Completed

Hello Kiewit,

Please see info received from City of Albany in response to the Segment 9/EM&CP 5B CI Plan/Profile. This will come through as a Transmittal in the doc control system as well.

Thanks,



Ben Cole, PG
Lead Consultant
Professional Geologist

M+ 1 716-289-1707
ben.cole@wsp.com

WSP USA
40 La Riviere Drive, Suite 320
Buffalo, New York 14202

wsp.com

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-LAEmHhHzdJzBITWfa4Hgs7pbKl

From: Cole, Benjamin <Ben.Cole@wsp.com>
Sent: Tuesday, September 27, 2022 11:38 AM
To: dvanluven@townofbethlehem.org; gkansas@townofbethlehem.org;
marc.dorsey@townofbethlehem.org; nmoquin@townofbethlehem.org
Subject: [EXTERNAL] CHPE Collocated Infrastructure Details_EM&CP 5A and 5B_Town of Bethlehem

Good Morning,

I'm writing on behalf of Transmission Developers Inc. ("TDI"), owner of the Champlain Hudson Power Express ("CHPE" or "Project") transmission line project. The purpose of this correspondence is to provide more detailed information related to how the CHPE project is designed to interact with your infrastructure and to solicit feedback from your company regarding the Project's alignment.

As you may recall from previous communications from Rick Chase at TDI, 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).

At the links below please find design drawings of the proposed CHPE alignment where it involves your infrastructure within the Environmental Management and Construction Plan ("EM&CP") Package 5A and 5B.

Links:
[Package 5A_Town of Bethlehem_Co-Located Infrastructure_2022-08-22.pdf](#)
[Package 5B_Town of Bethlehem_Co-Located Infrastructure_2022-08-18.pdf](#)

TDI will be submitting these plans to the New York State Public Service Commission ("PSC") for portions of the Project in your area. This information is a follow-up to previous communications to you providing general project information and typical infrastructure crossing drawings.

Please review the linked information regarding the CHPE alignment relating to your infrastructure and provide concurrence with the Project's cable separation and alignment and any feedback to me (ben.cole@wsp.com) by October 11, 2022. It is important to TDI that the construction and operation of the CHPE project does not interfere with the continued operation of your infrastructure.

To the extent that the CHPE alignment interacts with your infrastructure within future Segment EM&CP submissions, we will provide you with similar drawings in advance of those filings. I look forward to coordinating with you as we finalize the design of the CHPE project.

Sincerely,

Ben Cole
WSP USA, on behalf of TDI
(716) 289-1707
ben.cole@wsp.com

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-LAEmHhHzdJzBITWfa4Hgs7pbKl

From: Beartown Engineering <btengineering@comcast.net>
Sent: Wednesday, September 21, 2022 12:54 PM
To: Ben.Cole-PTR
Cc: lucas.stubbs@lumen.com; David.Vega@lumen.com
Subject: Re: KWT - Overland: New Transmittal - WSP-LMN-TRNS-0135 - CHPE Package 5B Co-Located Infrastructure Matrix and Drawings - Level 3

Ben.
FYI. This section of the CHPE through the Selkirk, NY rail yard is clear of Lumen facilities. Lumen has no conduits/cables along the rail ROW in this area.

Thanks.
Michael Reilly
Beartown Engineering
Underhill, VT 05489
802-363-0255
btengineering@comcast.net

On 09/08/2022 1:59 PM chpe-kwt@portal3.pbid.com wrote:

Workflow Notification

A new Transmittal has been entered into the system.

Transmittal #: WSP-LMN-TRNS-0135
Subject: CHPE Package 5B Co-Located Infrastructure Matrix and Drawings - Level 3
ATTN: David Vega, Lucas Stubbs, Michael Reilly
From: Ben Cole
Issue Purpose: For Your Information
Date Transmitted: 9/2/2022

Comments: Good Afternoon,

I'm writing on behalf of Transmission Developers Inc. ("TDI"), owner of the Champlain Hudson Power Express ("CHPE" or "Project") transmission line project. The purpose of this correspondence is to provide more detailed information related to how the CHPE project is designed to interact with your infrastructure and to solicit feedback from your company regarding the Project's alignment.

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).

At the enclosed link please find design drawings of the proposed CHPE alignment where it involves your

infrastructure within
the CHPE Package referenced in the title of this message.

TDI will be submitting these plans to the New York State Public Service Commission ("PSC") for approval prior to construction.

Please review the linked information regarding the CHPE alignment relating to your infrastructure and provide concurrence with the Project's cable separation and alignment and any feedback to ben.cole@wsp.com by September 16, 2022.
It is important to TDI that the construction and operation of the CHPE project does not interfere with the continued operation of your infrastructure.

To the extent that the CHPE alignment interacts with your infrastructure within future Segment EM&CP submissions, we will provide you with similar drawings in advance of those filings. I look forward to coordinating with you as we finalize the design of the CHPE project.

Thank You,

Ben Cole
WSP USA, on behalf of TDI
(716) 289-1707
ben.cole@wsp.com

File Links (link will be active for 60 days):

File Name
Package 5B_Level 3_Co-Located Infrastructure_2022-08-18.pdf

CHPE SharePoint users can access the record and file(s) using the link below:
https://chpe.pbid.com/KWT/_layouts/15/DocSetHome.aspx?id=/KWT/Transmittals/CHPE%20Package%205B%20Co-Located%20Infrastructure%20Matrix%20and%20Drawings%20-%20Level%203&OpenIn=browser

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Thank You.*

From: Beartown Engineering <btengineering@comcast.net>
Sent: Tuesday, September 27, 2022 1:51 PM
To: Ben.Cole-PTR
Cc: lucas.stubbs@lumen.com; David.Vega@lumen.com
Subject: RE: KWT - Overland: New Transmittal - WSP-LMN-TRNS-0135 - CHPE Package 5B Co-Located Infrastructure Matrix and Drawings - Level 3

Ben.

I've reviewed this package of prints and have found no real issues.

Potential conflicts to be aware of where CHPE crosses or is close to legacy Level 3 (now Lumen) conduits/fiber cables:
CHPE crossing the tracks and the legacy Level 3 network at STA 40293+00, MP 25.85.
CHPE closely parallels the network at STA 40348+04.52, near MP 24.78.
CHPE crosses the tracks and the network at STA 40364+50, north of MP 24.4.

End of potential conflicts at STA 40377+00, MP 24.25. Legacy Level 3 network routes along ROW labeled "CP Rail Canadian Connector Track" as shown on the CHPE prints.

Thanks.
Michael Reilly
Beartown Engineering
Underhill, VT 05489
802-363-0255
btengineering@comcast.net

On 09/21/2022 12:59 PM Cole, Benjamin <ben.cole@wsp.com> wrote:

Great. Thanks Mike.

Ben

From: Beartown Engineering <btengineering@comcast.net>
Sent: Wednesday, September 21, 2022 12:54 PM
To: Cole, Benjamin <Ben.Cole@wsp.com>
Cc: lucas.stubbs@lumen.com; David.Vega@lumen.com
Subject: Re: KWT - Overland: New Transmittal - WSP-LMN-TRNS-0135 - CHPE Package 5B Co-Located Infrastructure Matrix and Drawings - Level 3

Ben.

FYI. This section of the CHPE through the Selkirk, NY rail yard is clear of Lumen facilities. Lumen has no conduits/cables along the rail ROW in this area.

Thanks.

Michael Reilly

Beartown Engineering

Underhill, VT 05489

802-363-0255

btengineering@comcast.net

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ATTN: David Vega, Lucas Stubbs, Michael Reilly

From: Ben Cole

Issue Purpose: For Your Information

Date Transmitted: 9/2/2022

Comments: Good Afternoon,

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Ben Cole
WSP USA, on behalf of TDI
(716) 289-1707
ben.cole@wsp.com

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File Name
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the original message from your system.

Thank You.

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From: Cole, Benjamin <Ben.Cole@wsp.com>
Sent: Wednesday, October 5, 2022 2:07 PM
To: Philip.Tanedo; Daniel.Keener; Justine.Rojas; Tylor.Bottorff
Subject: [EXTERNAL] Time Warner CI Info (1 of 2)
Attachments: CHPE-SUB-0092.01-00-Package 4A_Time Warner_Co-Located Infrastructure_2022-09-13 (1).pdf; RE: CHPE Plans/Profiles for packages 1A/1B; CHPE-SUB-0093.01-00-Package 4B_Time Warner_Co-Located Infrastructure_2022-09-13-1.pdf; CHPE Package 3.pdf; 5A Snap.PNG; 5B Snap.PNG; CHPE Packages_Time Warner.kmz

Follow Up Flag: Follow up
Flag Status: Completed

(Message 1 of 2 for Time Warner)

Hello Kiewit,

Please see info received from Time Warner in response to recent transmittals, as well as information previously received/forwarded. This will come through as a Transmittal in the doc control system as well.

Thanks,



Ben Cole, PG
Lead Consultant
Professional Geologist

M+ 1 716-289-1707
ben.cole@wsp.com

WSP USA
40 La Riviere Drive, Suite 320
Buffalo, New York 14202

wsp.com

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From: Cole, Benjamin <Ben.Cole@wsp.com>
Sent: Monday, October 17, 2022 5:09 PM
To: Jason.Neff; Daniel.Keener; Philip.Tanedo; Tylor.Bottorff; Justine.Rojas; Shane.Miller; Mandy.Medcalf
Cc: Rick.Chase-PTR; Nolan.Mazur-PTR; Michael.Main-PTR1; Bennett, Richard; Fleischer, Rebecca M.; Grassi, Laura; Corrigan, Eoin; chpedoccontrol@portal3.pbid.com; Dropbox
Subject: [EXTERNAL] RE: Information for Presentation to Albany Water Board

All, FYI, Jason is off through this Friday, when the presentation is. Will wait to hear update from Kiewit but making sure this group is aware.

Ben

From: Cole, Benjamin
Sent: Monday, October 17, 2022 5:07 PM
To: Jason.Neff <Jason.Neff@kiewit.com>; Daniel.Keener <Daniel.Keener@kiewit.com>; Philip.Tanedo <philip.tanedo@kiewit.com>; Tylor.Bottorff <tylor.bottorff@kiewit.com>; Justine.Rojas <justine.rojas@kiewit.com>; Shane.Miller <Shane.Miller@kiewit.com>; Mandy.Medcalf <mandy.medcalf@kiewit.com>
Cc: Rick Chase <rick.chase@transmissiondevelopers.com>; Nolan Mazur <nolan.mazur@transmissiondevelopers.com>; Michael Main <michael.main@transmissiondevelopers.com>; Bennett, Richard <Richard.Bennett1@wsp.com>; Fleischer, Rebecca M. <Rebecca.Fleischer@wsp.com>; Grassi, Laura <Laura.Grassi@wsp.com>; Corrigan, Eoin <Eoin.Corrigan@wsp.com>; chpedoccontrol@portal3.pbid.com; Dropbox <chpe-dropbox@portal3.pbid.com>
Subject: RE: Information for Presentation to Albany Water Board

Hello Kiewit,

Any updates on this? Have to emphasize the importance/was asked by TDI to check in on prep for this and confirmation the Kiewit staff who will attend (this Friday).

Thanks,
Ben

From: Cole, Benjamin
Sent: Thursday, October 13, 2022 3:43 PM
To: Jason.Neff <Jason.Neff@kiewit.com>; Daniel.Keener <Daniel.Keener@kiewit.com>; Philip.Tanedo <philip.tanedo@kiewit.com>; Tylor.Bottorff <tylor.bottorff@kiewit.com>; Justine.Rojas <justine.rojas@kiewit.com>; Shane.Miller <Shane.Miller@kiewit.com>; Mandy.Medcalf <mandy.medcalf@kiewit.com>
Cc: Rick Chase <rick.chase@transmissiondevelopers.com>; Nolan Mazur <nolan.mazur@transmissiondevelopers.com>; Michael Main <michael.main@transmissiondevelopers.com>; Bennett, Richard <Richard.Bennett1@wsp.com>; Fleischer, Rebecca M. <Rebecca.Fleischer@wsp.com>; Grassi, Laura <Laura.Grassi@wsp.com>; Corrigan, Eoin <Eoin.Corrigan@wsp.com>; chpedoccontrol@portal3.pbid.com; 'Dropbox' <chpe-dropbox@portal3.pbid.com>
Subject: Information for Presentation to Albany Water Board

Hi Jason, Kiewit,

Please see below. This is an information request to support a presentation to the Albany Water Board scheduled for October 21, at 9am (Zoom call). This request was also entered as an RFI.

We had a call about this just now and plan to have a follow up tomorrow. Please identify someone from Kiewit who can be on the call tomorrow. The information request is as follows:

In preparation for upcoming presentation to the City of Albany Water Board (scheduled for October 21, at 9am via Zoom), please:

- Provide a plan/profile that details how CHPE will cross the City of Albany water main (48") in Package 5B (see the utility at station 51108+30 in the matrix of the City of Albany 5B CI Plan/Profile). The plan/profile for this crossing should consider the information that will be gained by Kiewit during test pitting at this location (scheduled for 10/14/22) and be as developed as possible.
- Provide a slide to describe work zone traffic control during construction at this location.
- Identify a Kiewit representative who can attend the call with Albany Water Board, primarily to listen, and address questions as directed by TDI.

Please also provide information to respond to the following comment and questions that were submitted by City of Albany:

- Discuss OSHA standards relative to safe practices for adjacent utilities.
- Will these power lines increase the possibility of corrosion of the pipeline due to stray currents?

Thank You,
Ben



Ben Cole, PG
Lead Consultant
Professional Geologist

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