



CHPE LLC
623 Fifth Avenue, 20th Floor
New York, NY 10022

**NYS DOT Champlain Hudson Power Express ("CHPE")
Environmental Management & Construction Plan
Notice of Major Change**

Project: Champlain Hudson Power Express

Segment: 8

Notice Number: 141

PSC Case: 10-T-0139

USACE Permit Number: NAN-2009-01089-M12

Location (Milepost, Town/County): Certified Route MP 177.9 to 178.5, Town of Rotterdam, Schenectady County, New York

Drawing References: Segment 8 (Package 5A) Appendix C: Sheets G-001, C-105, C-106, C-107, C-213, C-213.1, C-307, C-307.1, C-308, C-308.1, C-403, C-404

Other Documents/References: N/A

Component(s) Impacted by Change: Segment 8 (Package 5A) Appendix C: Sheets G-001, C-105, C-106, C-107, C-213, C-213.1, C-307, C-307.1, C-308, C-308.1, C-403, C-404, Appendix E, Appendix J

Description of Change:

This change notice is to incorporate revisions to the Appendix C Plan and Profile Drawings of the approved Segment 8 (Package 5A) EM&CP based on comments received and agreement from the Golub Corporation. Within this change (IFC STA 50062+50 to STA 50092+40), HDD 73 was extended to the south within the Golub Corporation Property (TM# 58.00-2-12.111). This change includes an increase in size of the northern HDD 73 work area to accommodate the longer bores associated with the HDD extension. This change includes the addition of an alternate access point near STA 50092+00.

This change results in an overall decrease in clearing by approximately 0.39 acres. This change results in a revision to the permanent and temporary easements on Lands N/F of 3324 Thompson LLC TM# 48.17-7-3, Lands N/F of Parkview at Ticonderoga, LLC TM# 48.17-7-10.11, and Lands N/F of Golub Corporation TM# 58.00-2-12.111. No new landowners are impacted by this change. This change does not include increased impacts to wetlands and/or streams. Please refer to attached NDC-0049 Reviewer Supplement Form for specific design plan revisions.

This change also results in an overall decrease in project impacts at this location by reducing the potential for future conflicts with transportation infrastructure at the Duanesburg Road Bridge Crossing. However, no new impacts to State highways result from this change. On February 6, 2024, NYS DOT provided acceptance of these alignment revisions via email; please see attached email.

Pursuant to Condition 158(b), this change does not require referral to the Commission based on a substantial increase in environmental impacts, nor does it relate to contested issues decided during the proceeding. This change involves shifting a small portion of the alignment outside of the deviation zone (approximately 1,799 feet in length [454 feet trenching and 1,345 feet HDD], extending to a maximum distance outside the deviation zone of 54.76 feet), and is submitted as a change to the approved EM&CP and Facility route under Certificate Condition 158.

The Deviation Zone Excursion Table 1 of EM&CP "Appendix E Justification for Deviation Zone Excursions in Segment 8" is revised below:

Excursion	Parcel ID	Location (Approximate – see Drawings for Details)				Justification for Revision	Environmental Impact Reviewed
		Sheet	Mile Point	Station Start	Station End		
S8-2A	58.00-2-12.111	C-105 to C-106	178.0 to 178.4	50069+00	50086+54.65	Conflicts with landowner assets and operations	Cultural Resources; ESA 9; Wetlands; Terrestrial Ecology

Excursion S8-2A

1. Description of the Excursion

Excursion S8-2A is located within the Town of Rotterdam beginning about 130' S of Duanesburg Road Bridge Crossing of CSX tracks (approximately STA 50069 to 50086 on Sheet C-105 and C-106 of the Plan and Profile Drawings [Appendix C of the EM&CP]).

2. Justification

The Golub Corporation required revisions to alignment and HDD design along their property as to not impact ongoing operations of critical facilities. Given the constraints at or near the CSX tracks in conjunction with the NYSDOT clearance requirements at the Duanesburg Road Bridge, this ADZ Excursion is the minimum necessary to feasibly achieve installation.

3. Environmental Impact

The anticipated ADZ exceedance constitutes a major change as it is 55 feet perpendicular to the ADZ at its furthest point; environmental impacts will be reduced as noted above, and the overall character of the Facility will not be changed. A detailed impact review and summary of environmental considerations are provided below. 1,345' HDD and 454' trench.

Recreation: None present within the vicinity of the excursion based on desktop aerial imagery and field confirmation.

Agricultural Resources: None present within the vicinity of the excursion based on desktop aerial imagery and field confirmation.

Cultural Resources: There are no historic sites or archaeological resources identified in the vicinity of this change. Therefore, no impacts to cultural resources are anticipated.

Threatened and Endangered Species: The change does not involve increased impacts to threatened and endangered species.

Wetlands and Streams: There are no delineated wetlands or waterbodies within the vicinity of this excursion.

4. New Landowners Affected

There are no new landowners affected by this change.

CC Requirements for Modifying an EMCP

#	Certificate Condition	Description of the Proposed change
158	The EM&CP approved by the Commission may incorporate modifications from the EM&CP proposed by the Certificate Holders. No change to the approved EM&CP may thereafter be made except in accordance with the following procedures:	
158(a)	For a proposed change that: (i) would involve a site listed or eligible for listing on the New York State or National Register of Historic Places, the Certificate Holders shall give at least two (2) weeks prior notice to the Field Service Bureau of OPRHP. (ii) would involve any State-regulated wetland or protected stream or water body, the Certificate Holders shall give at least two weeks prior notice to NYSDEC, and, if within the Adirondack Park, to APA. (iii) would affect the occupied habitat of a TE species, the Certificate Holders shall give at least two weeks prior notice to NYSDEC and to the USFWS or NMFS (where applicable) prior to providing notice to DPS staff of the proposed change. (iv) would affect the individual or habitat supporting RTE plants, the Certificate Holders shall give at least two (2) weeks prior notice to NYSDEC and DPS. (v) would involve agricultural land, the Certificate Holders shall give at least two (2) weeks prior notice to Ag & Mkts. (vi) would involve the herbicides planned for use (including mixed proportions, additives or method of application), the Certificate Holders shall give at least thirty (30) days prior notice to NYSDEC. (vii) would affect land or water owned or controlled by CNY, the Certificate Holders shall give at least two (2) weeks prior notice to CNY.	<p>(i) This change does not involve a site listed in the NYS or National Register of Historic Places.</p> <p>(ii) This change does not result in an increased impact to any federal or State-regulated wetland or waterbody and is not located in the Adirondack Park.</p> <p>(iii) This change does not affect an occupied habitat of a TE species.</p> <p>(iv) This change does not affect individual species or habitat supporting RTE plants.</p> <p>(v) The change does not involve Agricultural Land.</p> <p>(vi) There are no changes in herbicide use as result of the requested revision.</p> <p>(vii) The change is not on land owned or occupied by New York City.</p>
158(b)	The Certificate Holders shall report any proposed changes to the EM&CP to DPS Staff. DPS Staff will refer to the Commission for approval any proposed changes that cause a substantial increase in environmental impact, after consultation with NYSDEC, any proposed changes that relate to contested issues decided during the proceeding, and any proposed changes affecting State highways (but need not do so if the report indicates NYSDOT's agreement to such proposed changes). DPS Staff is authorized to approve all other proposed changes, in accordance with the procedure outlined herein, and will submit reports of such changes to the Secretary or the Secretary's designee, which reports will be posted on the Commission's website under this case number.	See description above.
158(c)	Upon being advised that DPS Staff will refer a proposed change to the Commission, the Certificate Holders shall notify all active parties that have requested to be so	N/A

	<p>notified, as well as property owners or lessees whose property is affected by the proposed change. The notice shall: (i) describe the original conditions and the requested change; (ii) provide documents supporting the request; and (iii) state that persons may comment by writing to the Commission within twenty-one (21) days of the notification date.</p>	
158(d)	<p>The Certificate Holders shall not execute any proposed change until they receive written approval from the Commission (if Commission approval is required pursuant to subparagraph (a) of this paragraph) or oral or written approval from DPS Staff (in the case of a change that Staff has authority to approve) except in emergency situations threatening personal injury, property damage, or severe adverse environmental impact, or as specified in the EM&CP. When the Certificate Holders have obtained oral approval from DPS Staff for a change, DPS Staff will confirm such approval in writing within ten (10) business days.</p>	<p>CHPE anticipates receiving oral or written approval from DPS staff.</p>

Proposed Change Involves New/Additional Impacts to:

- Site listed or eligible for listing on the New York State or National Register of Historic Places [CC 158(a)(i)]
- State-regulated wetland or protected stream or water body [CC 158(a)(ii)]
- Occupied habitat of a TE species [CC 158(a)(iii)]
- Individual or habitat supporting RTE plants [CC 158(a)(iv)]
- Agricultural land [CC 158(a)(v)]
- Herbicides planned for use (including mixed proportions, additives or method of application) [CC 158(a)(vi)]
- Land or water owned or controlled by CNY [CC 158(a)(vii)]
- Federally regulated wetland or protected stream or water body [Requires Transmittal to ACOE]

List of References and Attachments:

- NDC-0049 Reviewer Supplement Form
- Segment 8 (Package 5A) Appendix C Revised and New Sheets
- Segment 8 (Package 5A) EM&CP Appendix E Added Sheets – NDC-0049
- Segment 8 (Package 5A) EM&CP Appendix J Memo – NDC-0049
- NYSDOT R1 Acceptance Email



CHPE LLC
623 Fifth Avenue, 20th Floor
New York, NY 10022

Signoff by: CHPE Overland Team

Date: _____

Approvals

Position	Name	Signature	Date
Segment Engineer:	<u>Beau Nolan</u>	 <small>Electronically signed by Beau.Nolan Date: 05/15/2024 7:39:27 AM</small>	<u>5/15/2024</u>
Segment Manager:	<u>Zackary Mayes</u>	 <small>Electronically signed by zackary.mayes Date: 05/15/2024 11:50:01 AM</small>	<u>5/15/2024</u>
CHPE, LLC Approval:	<u>Paul Weske</u>		<u>06/05/2024</u>
Transmitted to DPS by:	_____	_____	_____
DPS Approval By:	_____	_____	_____
Transmitted to ACOE by:	_____	_____	_____



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NDC-0049 Reviewer Supplement Form

Summary of Plan Revisions:

Sheet No.	Rev No.	Revision Description	Summary
G-001	2	NDC-0049: HDD 73 Extension on Golub Property	Added sheets C213.1, C-307.1, and C-308.1, revised sheet names for C-307 through C-308.1
C-105	1	NDC-0049: HDD 73 Extension on Golub Property	HDD 73 realigned for extension on Golub Corporation Property and to increase clearance from Duanesburg Road Bridge abutment. HDD 73 Work area revised (enlarged) to accommodate extension of HDD. HDD pits were relocated and offset to maintain required spacing. HDD profile added to sheet. The approximate Duanesburg Road Bridge Abutments were added in plan view along with clearance callouts consistent with NYSDOT coordination. Callouts were added for clearance to Golub Corporation Water Tank and utilities in profile.
C-106	1	NDC-0049: HDD 73 Extension on Golub Property	HDD 73 realigned for extension on Golub Corporation Property. HDD work area relocated from C-105 to C-106 based on coordination with Golub Corporation and CHPE LLC. Trench was realigned from new HDD pit locations up to Splice Location 157. Existing UE Ductbank on Golub Corporation Property added to plan view with required 10' min. clearance. Access revised accordingly.
C-107	2	NDC-0049: HDD 73 Extension on Golub Property	Secondary access point added from Golub Corporation Property per coordination with Golub Corporation and CHPE LLC.
C-213	1	NDC-0049: HDD 73 Extension on Golub Property	Secondary access point added from Golub Corporation Property per coordination with Golub Corporation and CHPE LLC. Access revised accordingly for connection and security.
C-213.1	0	NDC-0049: HDD 73 Extension on Golub Property	New Sheet: Secondary access point added from Golub Corporation Property per coordination with Golub Corporation and CHPE LLC. Access revised accordingly for connection and security.
C-307	1	NDC-0049: HDD 73 Extension on Golub Property	HDD 73 realigned for extension on Golub Corporation Property and to increase clearance from Duanesburg Road Bridge abutment. HDD 73 Work area revised (enlarged) to accommodate extension of

NDC-0049 – REVIEWER SUPPLEMENT FORM

			HDD. HDD pits were relocated and offset to maintain required spacing. HDD profile added to sheet. The approximate Duanesburg Road Bridge Abutments were added in plan view along with clearance callouts consistent with NYSDOT coordination. Callouts were added for clearance to Golub Corporation Water Tank and utilities in profile. Added all "Design and Construction" and "General Notes".
C-307.1	0	NDC-0049: HDD 73 Extension on Golub Property	New Sheet: HDD 73 realigned for extension on Golub Corporation Property. HDD work area relocated from C-307 to C-307.1 as a result of HDD 73 extension and based on coordination with Golub Corporation and CHPE LLC.
C-308	1	NDC-0049: HDD 73 Extension on Golub Property	HDD 73 realigned for extension on Golub Corporation Property and to increase clearance from Duanesburg Road Bridge abutment. HDD 73 Work area revised (enlarged) to accommodate extension of HDD. HDD pits were relocated and offset to maintain required spacing. HDD profile added to sheet. The approximate Duanesburg Road Bridge Abutments were added in plan view along with clearance callouts consistent with NYSDOT coordination. Callouts were added for clearance to Golub Corporation Water Tank and utilities in profile. Added all "Design and Construction" and "General Notes".
C-308.1	0	NDC-0049: HDD 73 Extension on Golub Property	New Sheet: HDD 73 realigned for extension on Golub Corporation Property. HDD work area relocated from C-308 to C-308.1 as a result of HDD 73 extension and based on coordination with Golub Corporation and CHPE LLC.
C-403	1	NDC-0049: HDD 73 Extension on Golub Property	HDD 73 realigned for extension on Golub Corporation Property and to increase clearance from Duanesburg Road Bridge abutment. HDD 73 Work area revised (enlarged) to accommodate extension of HDD. HDD pits were relocated and offset to maintain required spacing.
C-404	2	NDC-0049: HDD 73 Extension on Golub Property	Secondary access point added from Golub Corporation Property per coordination with Golub Corporation and CHPE LLC.

Summary of Affected Easements:

1. Lands N/F of 3324 Thompson LLC TM# 48.17-7-3
2. Lands N/F of Parkview at Ticonderoga, LLC TM# 48.17-7-10.11
3. Lands N/F of Golub Corporation TM# 58.00-2-12.111



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Segment 8 (Package 5A) Appendix C Revised and New Sheets – NDC-0049

SHEET LIST TABLE for Sheet 1, listing drawing numbers and sheet names under packages 5A (General, Plan and Profile, and HDD Trenchless).

SHEET LIST TABLE for Sheet 2, listing drawing numbers and sheet names under packages 5A (Off-site Access Road and Route, HDD Trenchless, and Erosion and Sediment Control).

SHEET LIST TABLE for Sheet 3, listing drawing numbers and sheet names under packages 5A (Proposed Plan and Profile HDD, Erosion and Sediment Control, and Details-Structural).

SHEET LIST TABLE for Sheet 4, listing drawing numbers and sheet names under packages 5A (Maintenance and Protection of Traffic Plans, Details, and Details-Electrical).

Vertical text on the left edge: File: C:\USERS\RAMIREZ\CHPE_TRANSPORT\PROJECT FILES\5A\NDC-0049\NDC-0049-001.DWG... Date: 09/09/2023 10:02:20 AM...



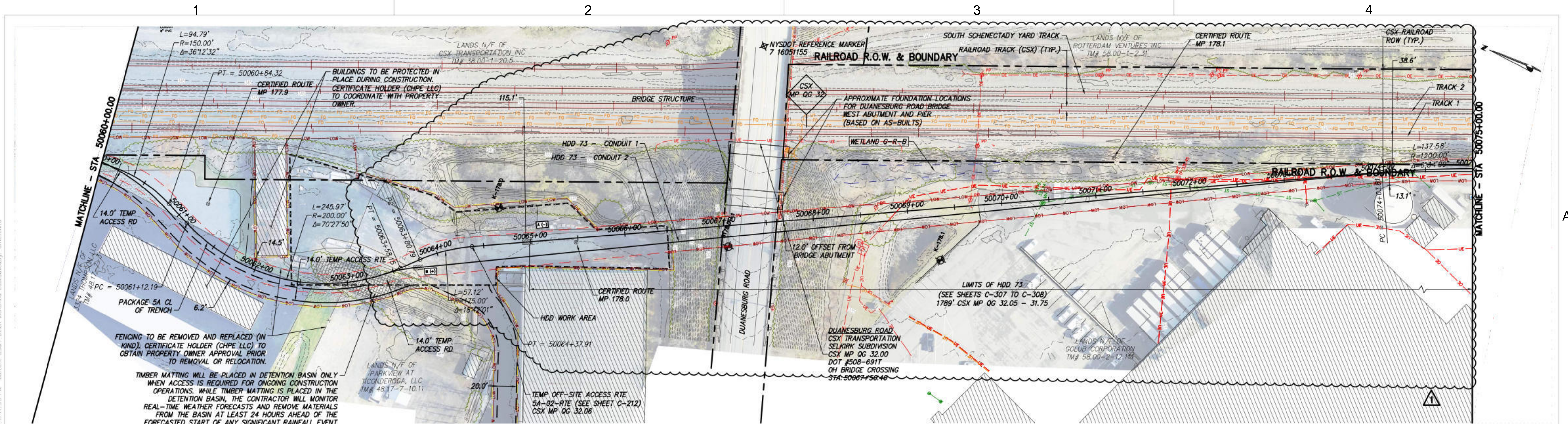
Engineering and Land Surveying, P.C.



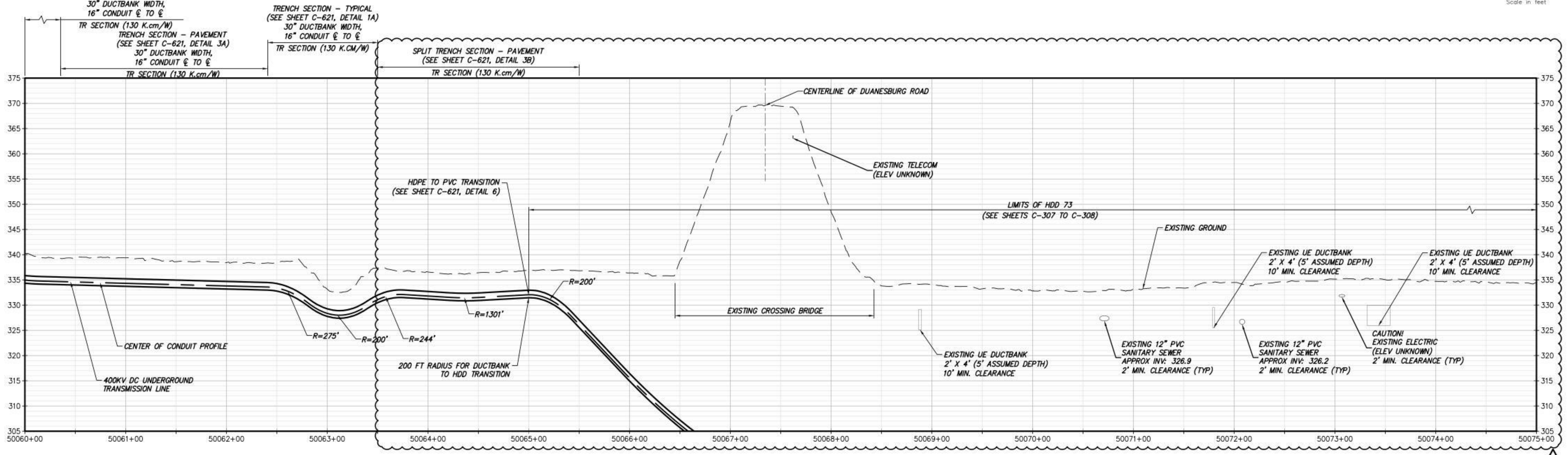
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Table with 6 columns: No., DATE, SUBMITTAL / REVISION DESCRIPTION, DB, APP. Contains revision history for NDC-0049 and NDC-0006.

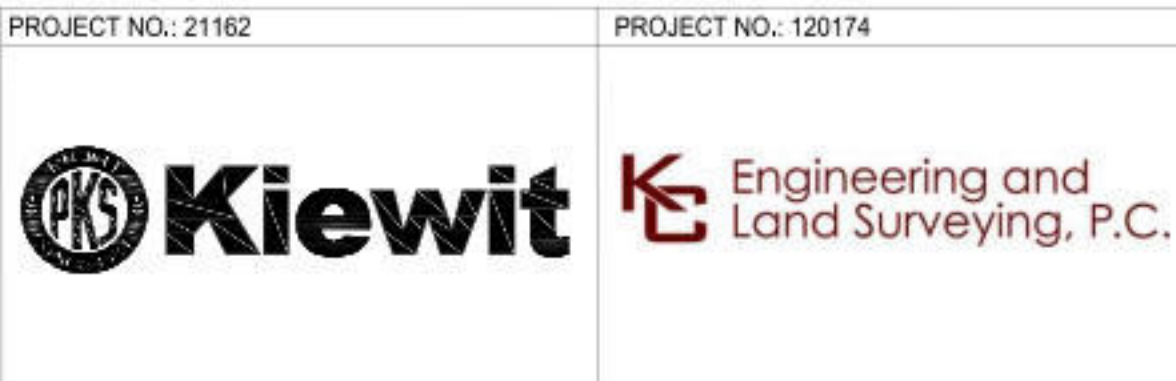
CHAMPLAIN HUDSON POWER EXPRESS SEGMENT 8 (PACKAGE 5A) - CSX: ROTTERDAM - BETHLEHEM SHEET INDEX. Includes permit drawing no. N/A, drawing no. G-001, and scale AS SHOWN.



STA. 50060+00.00 TO STA. 50075+00.00 PLAN VIEW
SCALE: 1" = 50'



STA. 50060+00.00 TO STA. 50075+00.00 PROFILE
SCALE: H: 1" = 50' V: 1" = 10'



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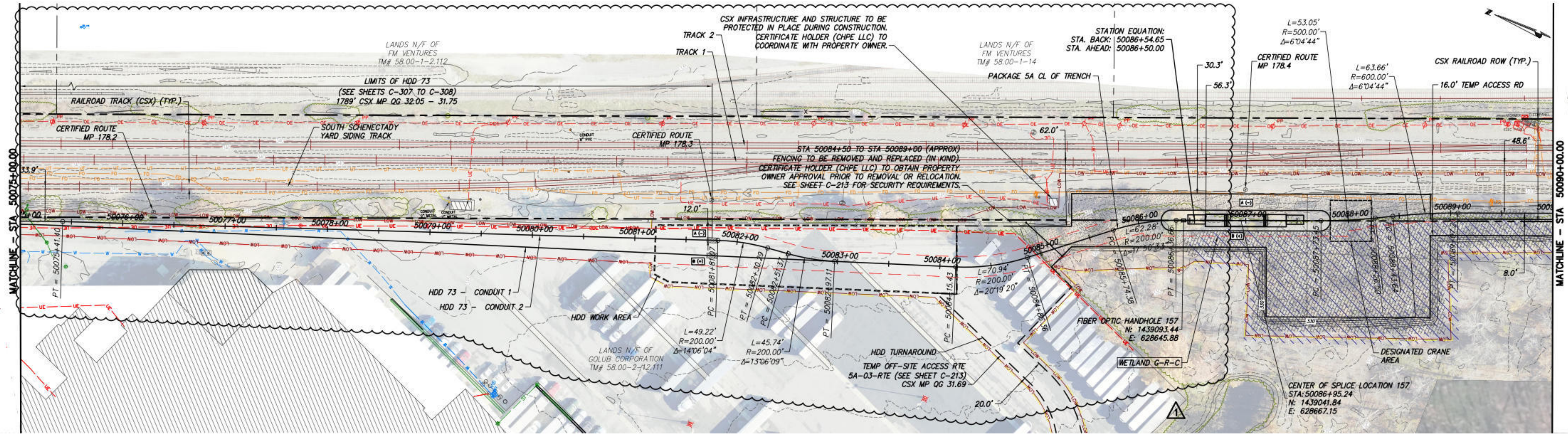
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0	06/09/2023	ISSUED FOR CONSTRUCTION SUBMISSION	BV	TK

CHAMPLAIN HUDSON POWER EXPRESS
 SEGMENT 8 (PACKAGE 5A) - CSX: ROTTERDAM - BETHLEHEM
 STA. 50060+00.00 TO STA. 50075+00.00

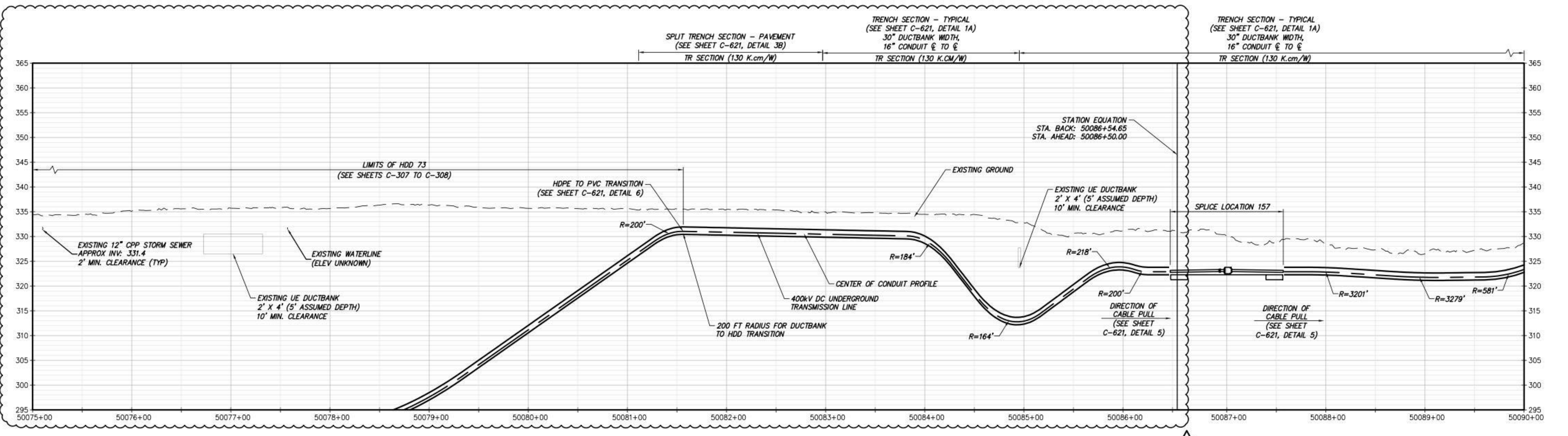
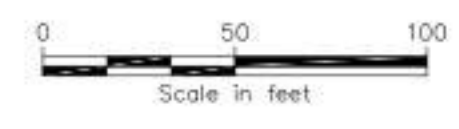
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 DRAWING NO. **C-105**

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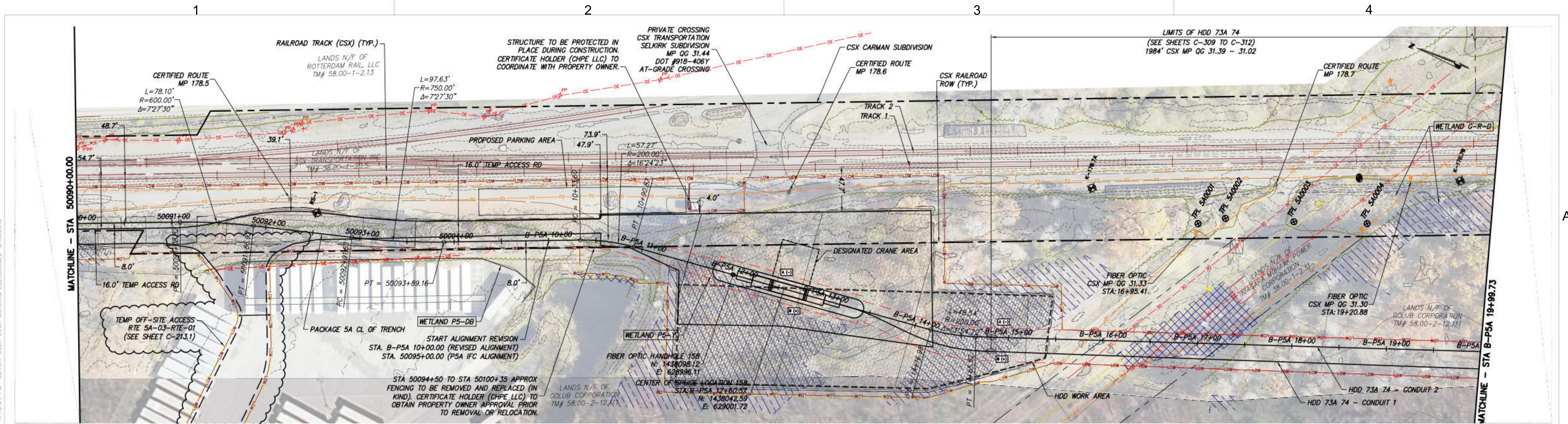
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No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
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0	06/09/2023	ISSUED FOR CONSTRUCTION SUBMISSION	BV	TK

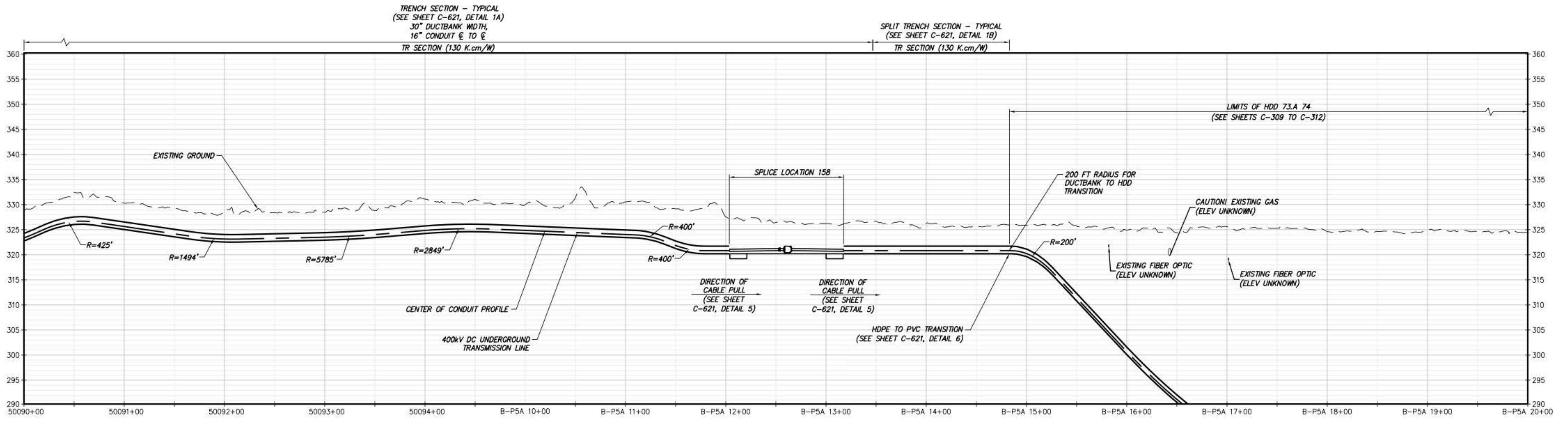
CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 8 (PACKAGE 5A) - CSX: ROTTERDAM - BETHLEHEM
STA. 50075+00.00 TO STA. 50090+00.00
HVDC CONDUIT PLAN AND PROFILE
(AND TEMPORARY ACCESS ROAD PLAN)

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DRAWING NO. **C-106**

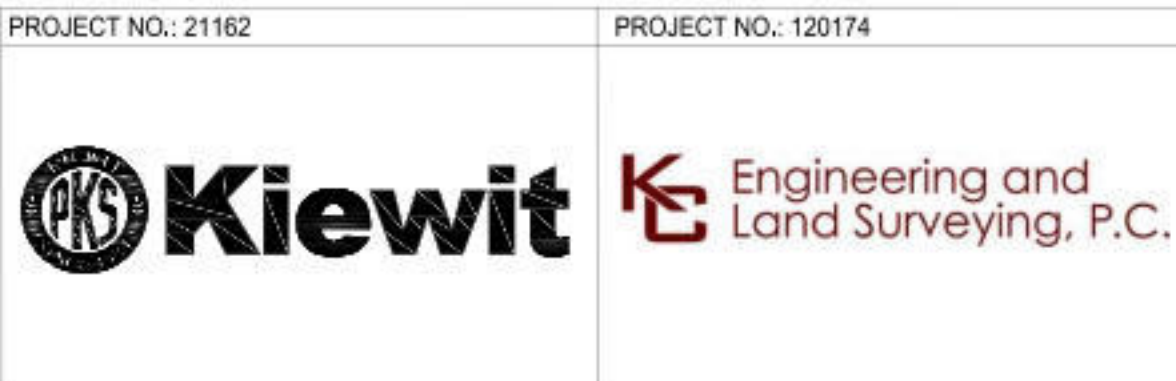
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SCALE: 1" = 50'



STA. 50090+00.00 TO STA. 50105+00.00 PROFILE
SCALE: H: 1" = 50' V: 1" = 10'



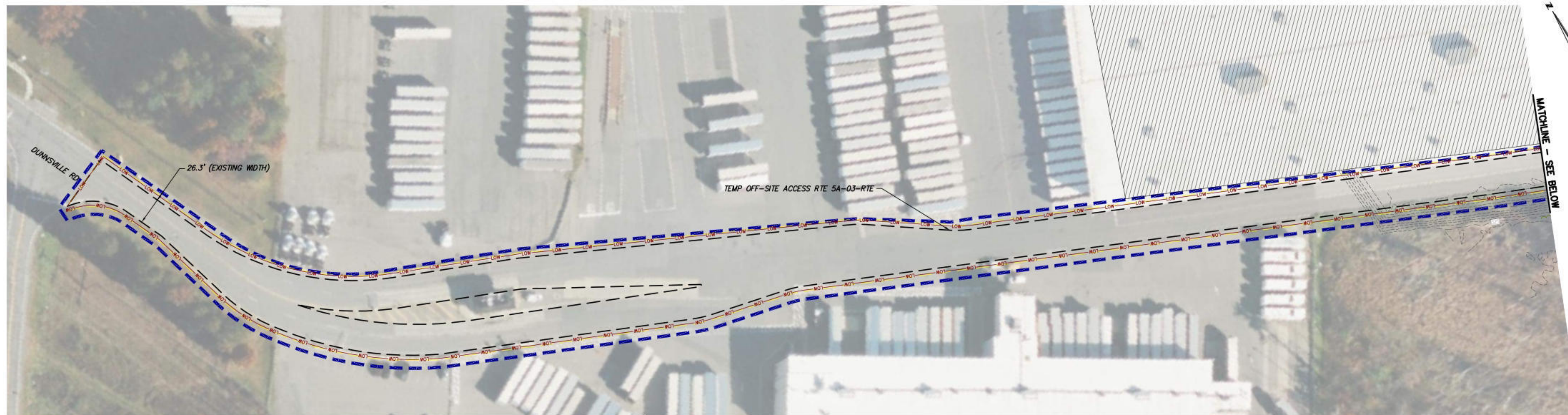
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No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
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1	03/13/2024	NDC-0020: HDD 73A REDESIGN	DM	BD
0	06/09/2023	ISSUED FOR CONSTRUCTION SUBMISSION	BV	TK

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 8 (PACKAGE 5A) - CSX: ROTTERDAM - BETHLEHEM
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HVDC CONDUIT PLAN AND PROFILE
(AND TEMPORARY ACCESS ROAD PLAN)

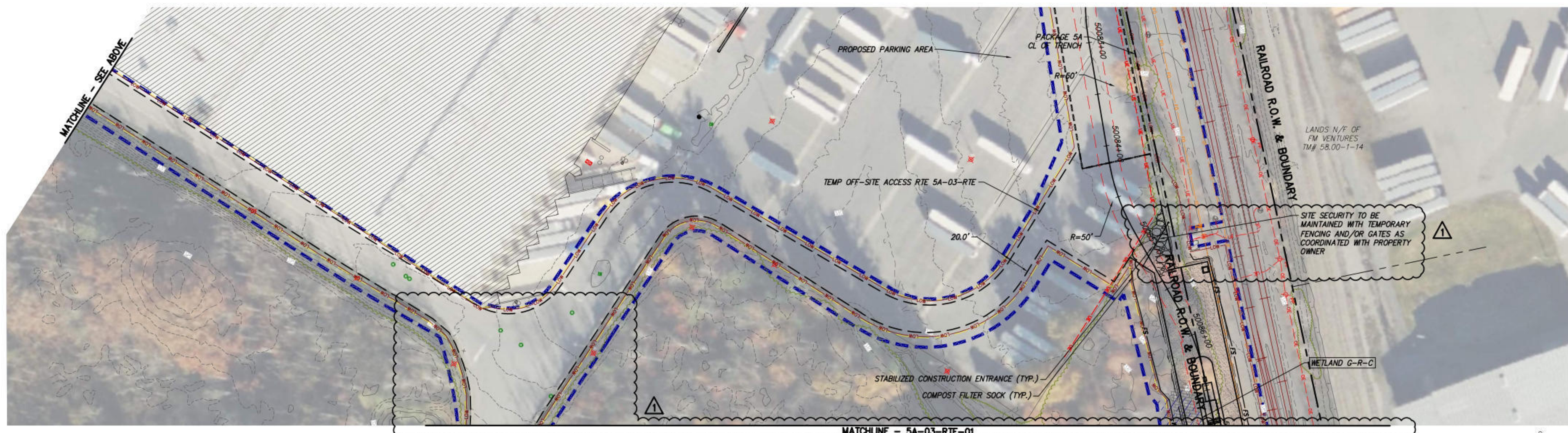
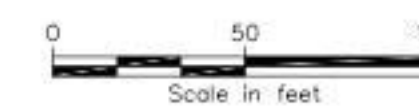
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SCALE: AS SHOWN
DATE: 06/09/2023

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DRAWING NO. **C-107**



TEMP OFF-SITE ACCESS RTE 5A-03-RTE PLAN VIEW

SCALE: 1" = 50'



TEMP OFF-SITE ACCESS RTE 5A-03-RTE PLAN VIEW

SCALE: 1" = 50'



Engineering and Land Surveying, P.C.



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No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
1	05/08/2024	NDC-0049: HDD 73 EXTENSION ON GOLUB PROPERTY	JR	BD
0	06/09/2023	ISSUED FOR CONSTRUCTION SUBMISSION	BV	TK

CHAMPLAIN HUDSON POWER EXPRESS
 SEGMENT 8 (PACKAGE 5A) - CSX: ROTTERDAM - BETHLEHEM
 TEMP OFF-SITE ACCESS ROUTES (5A-03-RTE)

DRAWN BY: AR DESIGNED BY: BV APPROVED BY: TK SCALE AS SHOWN DATE: 06/09/2023

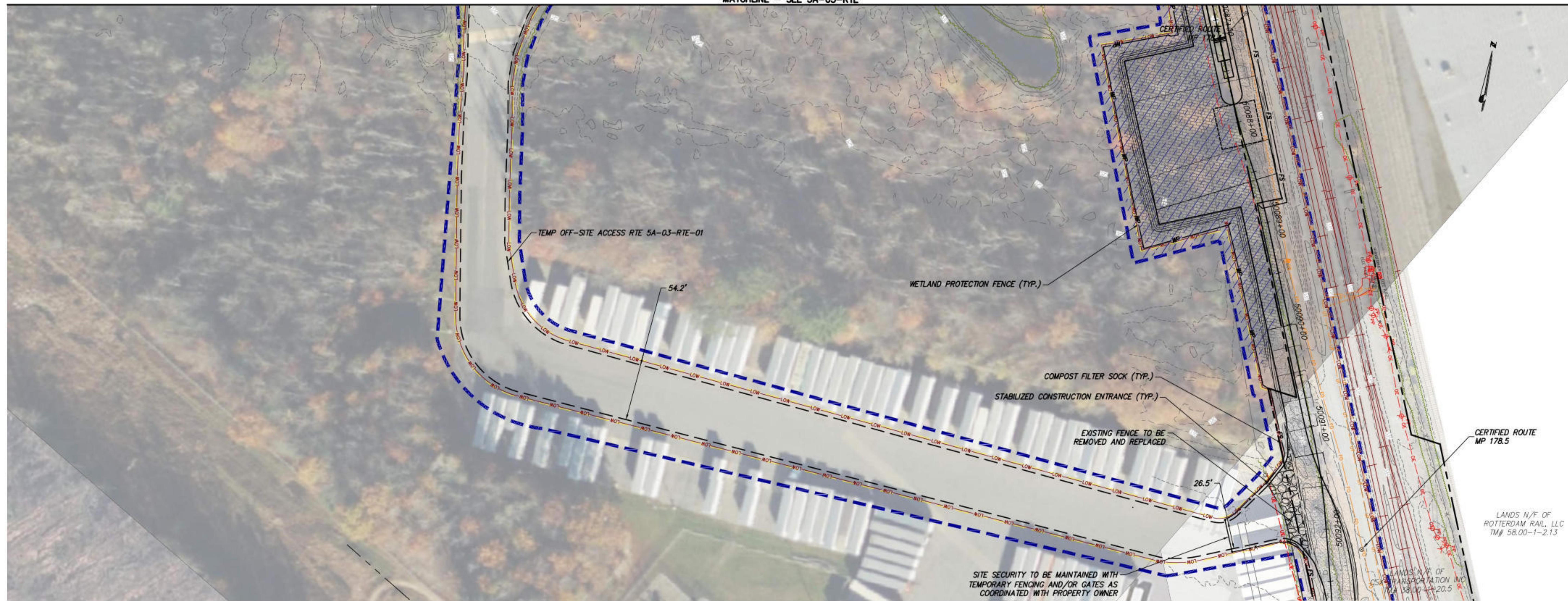
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B

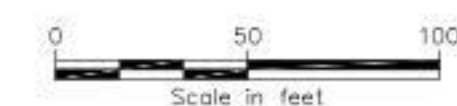
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MATCHLINE - SEE 5A-03-RTE



TEMP OFF-SITE ACCESS RTE 5A-03-RTE-01 PLAN VIEW

SCALE: 1" = 50'



PROJECT NO.: 21162

PROJECT NO.: 120174

ALTERED ON:

AFFIXED ON: 05/08/2024



Engineering and Land Surveying, P.C.



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No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
0	05/08/2024	ISSUED FOR CONSTRUCTION: NDC-0049	JR	BD

CHAMPLAIN HUDSON POWER EXPRESS
 SEGMENT 8 (PACKAGE 5A) - CSX: ROTTERDAM - BETHLEHEM
 TEMP OFF-SITE ACCESS ROUTES (5A-03-RTE-01)

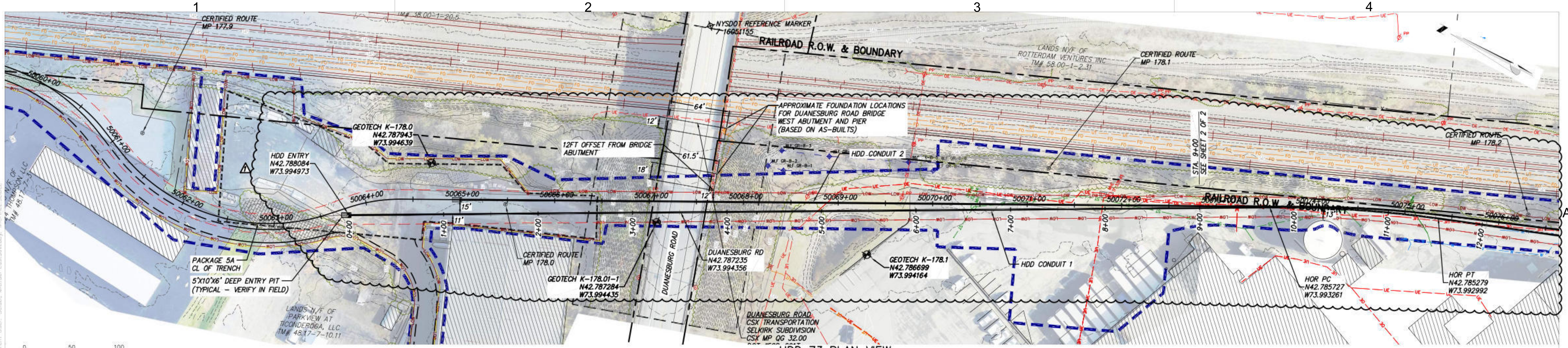
PERMIT DRAWING NO.

N/A

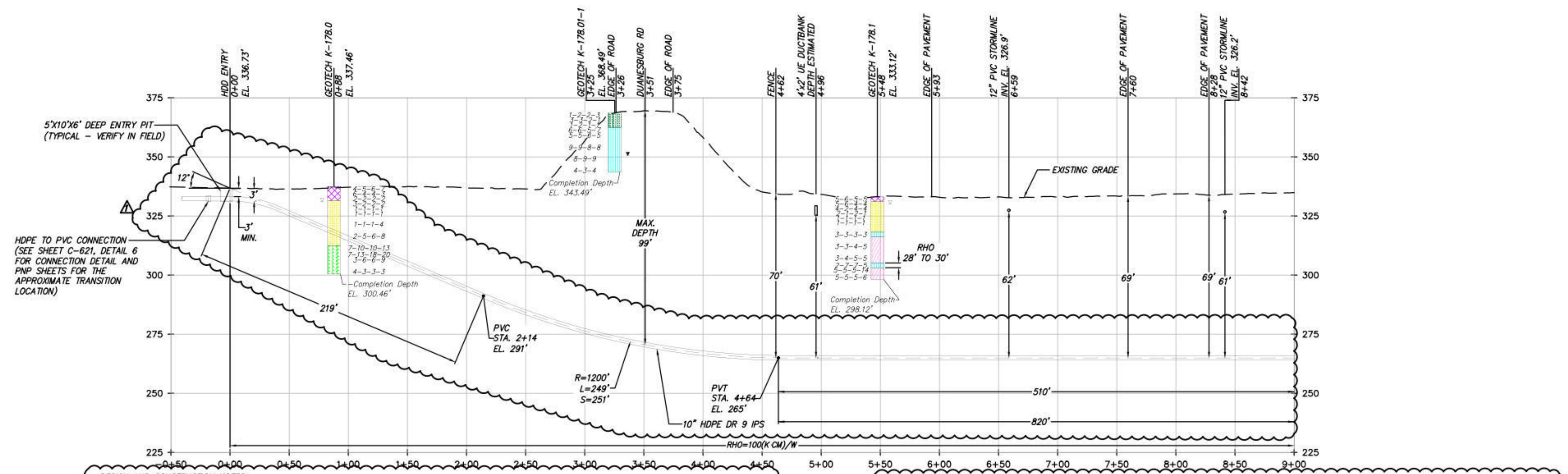
DRAWING NO.

C-213.1

DRAWN BY: AR DESIGNED BY: BV APPROVED BY: TK SCALE AS SHOWN DATE: 05/08/2024



HDD 73 PLAN VIEW
CONDUIT 1



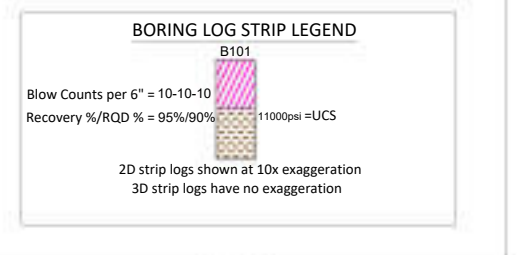
HDD 73 PROFILE VIEW
CONDUIT 1

DESIGN AND CONSTRUCTION NOTES:

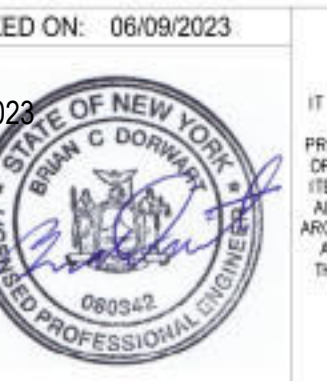
1. INSTALLATION METHOD: HORIZONTAL DIRECTIONAL DRILL.
2. 10.750" HDPE MIN. W.T. 1.194" DR 9 IPS PIPE.
3.500" HDPE MIN. W.T. 0.389" DR 9 IPS PIPE.
HDD HORIZONTAL LENGTH (L): 1789'
HDD DESIGNED PIPE LENGTH (S): 1801'
3. THE MINIMUM THREE JOINT (APPROX. 100 FT) COMBINED CURVE (VERTICAL + HORIZONTAL) RADIUS SHALL NOT BE LESS THAN 800 FT.
4. THE MINIMUM VERTICAL SEPARATION DISTANCE FROM EXISTING SUBSURFACE UTILITIES AND UNDERGROUND STRUCTURES SHALL NOT BE LESS THAN 10 FT.
5. AS-BUILT SEPARATION BETWEEN CASING 1 AND CASING 2 SHALL BE EQUAL TO OR GREATER THAN 5 FT.
6. DRILL CONTRACTOR AND/OR GEOTECHNICAL ENGINEER TO DETERMINE LENGTH OF TEMPORARY SURFACE/CONDUCTOR CASING.
7. SPT N-VALUES SHOWN ON THIS DRAWING ARE NOT CORRECTED FOR SAMPLER SIZE OR HAMMER ENERGY. REFERENCE BORING LOGS AND GEOTECHNICAL REPORTS FOR ADDITIONAL SOIL INFORMATION.
8. BUOYANCY CONTROL MEASURES (INTERNAL WATER USED FOR BALLAST) SHALL BE UTILIZED DURING PULLBACK FOR ALL BUNDLED CASINGS AT DRILL CONTRACTOR'S DISCRETION.

GENERAL NOTES:

1. ALL BURIED LINE DEPTHS ARE APPROXIMATE. PRIOR TO ANY EXCAVATION OR EXPLORATORY BORING, CONTRACTOR MUST CONTACT 811 AND ABIDE BY ALL STATE EXCAVATION REQUIREMENTS.
2. TETRA TECH ENGINEERING AND SURVEYING P.C. IS NOT RESPONSIBLE FOR LOCATION OF FOREIGN UTILITIES IN THIS DRAWING. THE INFORMATION SHOWN HEREON IS FURNISHED WITHOUT LIABILITY ON THE PART OF TETRA TECH ENGINEERING AND SURVEYING P.C. OR ANY DAMAGES RESULTING FROM ERRORS OR OMISSIONS THEREIN.
3. ALL COORDINATES ARE IN NEW YORK STATE PLANE, NAD83, EAST ZONE, US FOOT.
4. ADDITIONAL GEOTECHNICAL BORES AND FINAL REPORTS WILL BE AVAILABLE IN SPRING 2024. THE ENGINEERING SUPPORTING THIS DRAWING SUGGESTS THAT ADDITIONAL GEOTECHNICAL AND SUBSURFACE DATA WOULD BE BENEFICIAL AND ONLY REPRESENTS THE ANALYSIS WHEN SEALED. DO NOT USE THIS DRAWING FOR SUBSURFACE CONSTRUCTION ACTIVITIES.



Legend	Legend
Asphalt	Asphalt
Gravel	Gravel
Concrete	Concrete
...	...



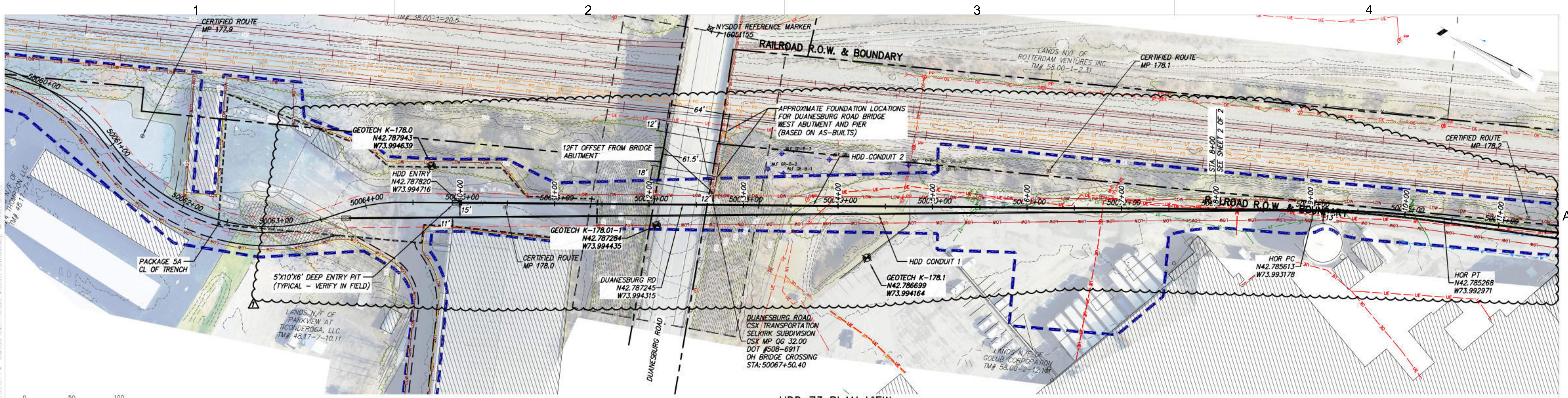
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE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

No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
1	05/08/2024	NDC-0049: HDD 73 EXTENSION ON GOLUB PROPERTY	MRS	EJK
0	06/09/2023	ISSUED FOR CONSTRUCTION SUBMISSION	NS	BD

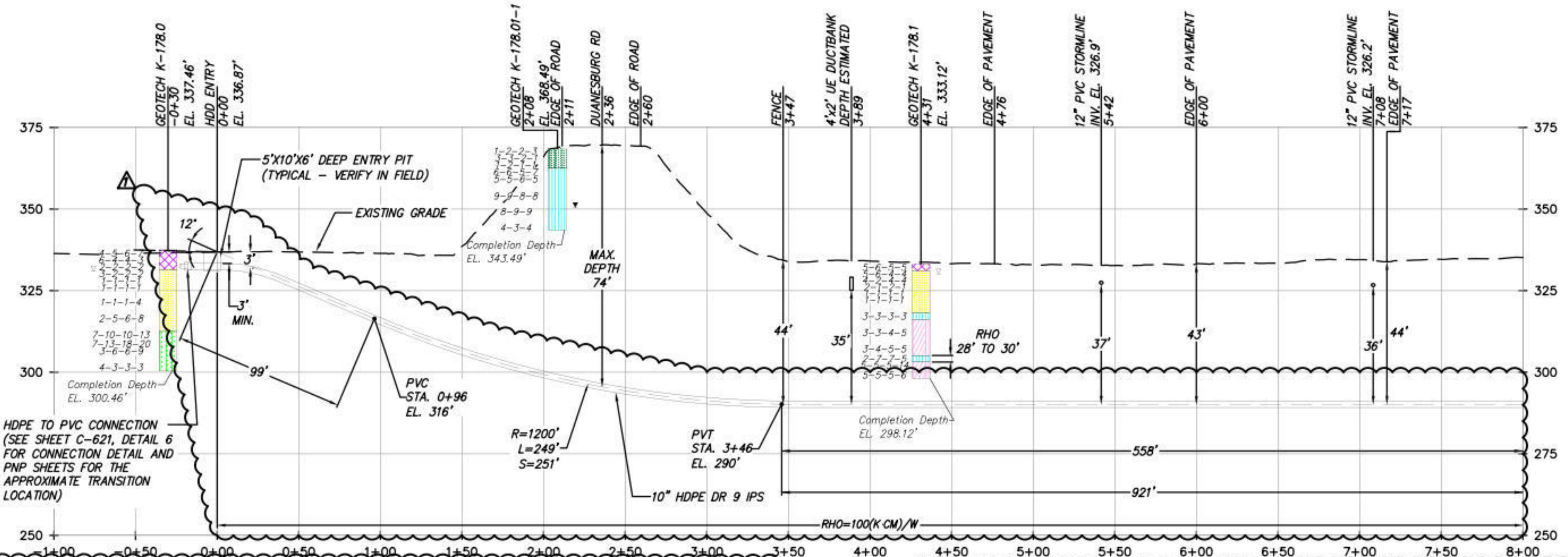
CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 8 (PACKAGE 5A) - CSX: ROTTERDAM - BETHLEHEM
PLAN AND PROFILE - HDD 73 PAGE 1 OF 2
DUANEBSBURG ROAD CROSSING - CONDUIT 1
SCHENECTADY COUNTY, NY

PERMIT DRAWING NO. **N/A**
DRAWING NO. **C-307**

DRAWN BY: BC DESIGNED BY: NS APPROVED BY: BD SCALE AS SHOWN DATE: 06/09/2023



HDD 73 PLAN VIEW
CONDUIT 2



HDD 73 PROFILE VIEW
CONDUIT 2

- DESIGN AND CONSTRUCTION NOTES:**
1. INSTALLATION METHOD: HORIZONTAL DIRECTIONAL DRILL.
 2. 10.750" HDPE MIN. W.T. 1.194" DR 9 IPS PIPE.
3.500" HDPE MIN. W.T. 0.389" DR 9 IPS PIPE.
HDD HORIZONTAL LENGTH (L): 1672'
HDD DESIGNED PIPE LENGTH (S): 1679'
 3. THE MINIMUM THREE JOINT (APPROX. 100 FT) COMBINED CURVE (VERTICAL + HORIZONTAL) RADIUS SHALL NOT BE LESS THAN 800 FT.
 4. THE MINIMUM VERTICAL SEPARATION DISTANCE FROM EXISTING SUBSURFACE UTILITIES AND UNDERGROUND STRUCTURES SHALL NOT BE LESS THAN 10 FT.
 5. AS-BUILT SEPARATION BETWEEN CASING 1 AND CASING 2 SHALL BE EQUAL TO OR GREATER THAN 5 FT.
 6. DRILL CONTRACTOR AND/OR GEOTECHNICAL ENGINEER TO DETERMINE LENGTH OF TEMPORARY SURFACE/CONDUCTOR CASING.
 7. SPT N-VALUES SHOWN ON THIS DRAWING ARE NOT CORRECTED FOR SAMPLER SIZE OR HAMMER ENERGY. REFERENCE BORING LOGS AND GEOTECHNICAL REPORTS FOR ADDITIONAL SOIL INFORMATION.
 8. BUOYANCY CONTROL MEASURES (INTERNAL WATER USED FOR BALLAST) SHALL BE UTILIZED DURING PULLBACK FOR ALL BUNDLED CASINGS AT DRILL CONTRACTOR'S DISCRETION.

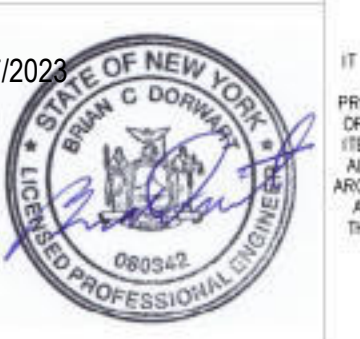
- GENERAL NOTES:**
1. ALL BURIED LINE DEPTHS ARE APPROXIMATE. PRIOR TO ANY EXCAVATION OR EXPLORATORY BORING, CONTRACTOR MUST CONTACT 811 AND ABIDE BY ALL STATE EXCAVATION REQUIREMENTS.
 2. TETRA TECH ENGINEERING AND SURVEYING P.C. IS NOT RESPONSIBLE FOR LOCATION OF FOREIGN UTILITIES IN THIS DRAWING. THE INFORMATION SHOWN HEREON IS FURNISHED WITHOUT LIABILITY ON THE PART OF TETRA TECH ENGINEERING AND SURVEYING P.C. OR ANY DAMAGES RESULTING FROM ERRORS OR OMISSIONS THEREIN.
 3. ALL COORDINATES ARE IN NEW YORK STATE PLANE, NAD83, EAST ZONE, US FOOT.
 4. ADDITIONAL GEOTECHNICAL BORES AND FINAL REPORTS WILL BE AVAILABLE IN SPRING 2024. THE ENGINEERING SUPPORTING THIS DRAWING SUGGESTS THAT ADDITIONAL GEOTECHNICAL AND SUBSURFACE DATA WOULD BE BENEFICIAL AND ONLY REPRESENTS THE ANALYSIS WHEN SEALED. DO NOT USE THIS DRAWING FOR SUBSURFACE CONSTRUCTION ACTIVITIES.

BORING LOG STRIP LEGEND

Row Counts per 6" = 10-10-10
Recovery %/RSD % = 95%/90%
3D strip logs shown @ 10x exaggeration
3D strip logs have no exaggeration

Legend

ASPHALT	Asphalt
BRICK	Brick
BLAST	Blast
CL	CLAY
CL-SH	SILTY FINE CLAY
CL	CLAY
CL-M	SILTY CLAY
CL	CLAY
CONCRETE	Concrete
CR	CRACK
CC	CLAYEY GRAVEL
CC-GM	SILTY CLAYEY GRAVEL
GM	SILTY GRAVEL
GP	Poorly Graded GRAVEL
GP-GC	Poorly Graded Gravel with CLAY
GP-GM	Poorly Graded GRAVEL with SILT
GM	Well Graded GRAVEL
GM-GC	Well Graded GRAVEL with CLAY
GM-GM	Well Graded GRAVEL with SILT
GRAVEL	GRAVEL
MS	Medium Sand
ML	SILT
OH	ORGANIC FINE CLAY
OL	ORGANIC LOAM CLAY
OLY/SH	ORGANIC SOIL
PT	PEAT
Rock	Rock
Sandstone	Sandstone
SC	CLAYEY SAND
SC-GM	SILT, CLAYEY SAND
SH	SHALE
SILTSTONE	Siltstone
SM	SANDY SAND
SP	Poorly Graded SAND
SP-GC	Poorly Graded SAND with CLAY
SP-GM	Poorly Graded SAND with SILT
SW	Well Graded SAND
SW-GC	Well Graded SAND with CLAY
SW-GM	Well Graded SAND with SILT
Topsoil	Topsoil
USGS 601	Gravel or Conglomerate 1
USGS 604	Subgravel
USGS 670	Interbedded Sandstone and Shale
USGS 700	Quartzite
USGS 705	Sand
USGS 709	Silt
USGS 708	Clay
USGS 706	Gravel
USGS 716	Quartzite 1
Water	Water
Weathered Rock	Weathered Rock
Water Table	Water Table during drilling
Drilled Water Table	Water Table after drilling



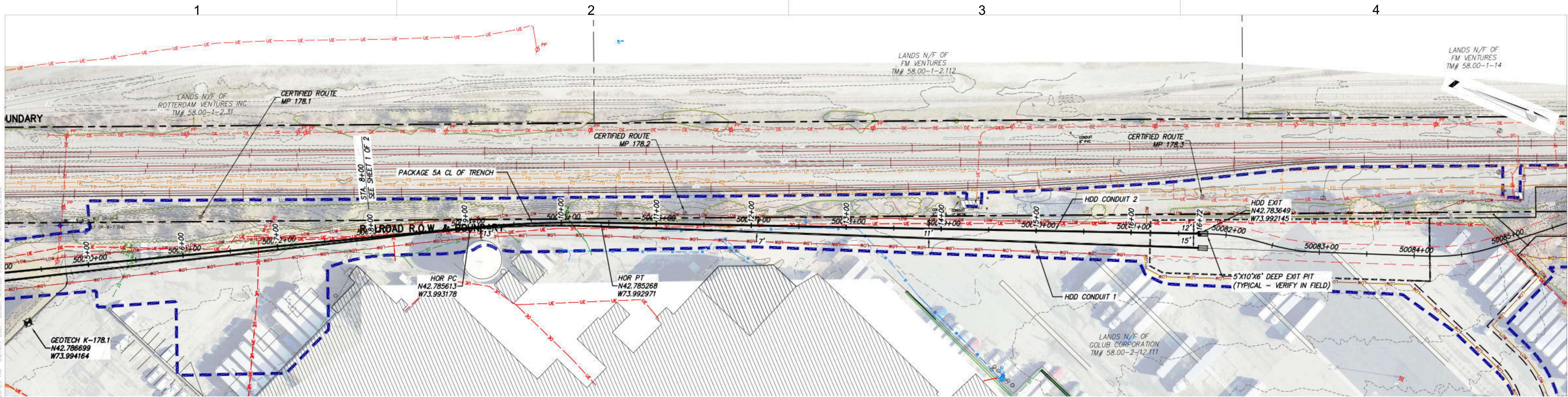
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No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
1	05/08/2024	NDC-0049: HDD 73 EXTENSION ON GOLUB PROPERTY	MRS	EJK
0	06/09/2023	ISSUED FOR CONSTRUCTION SUBMISSION	NS	BD

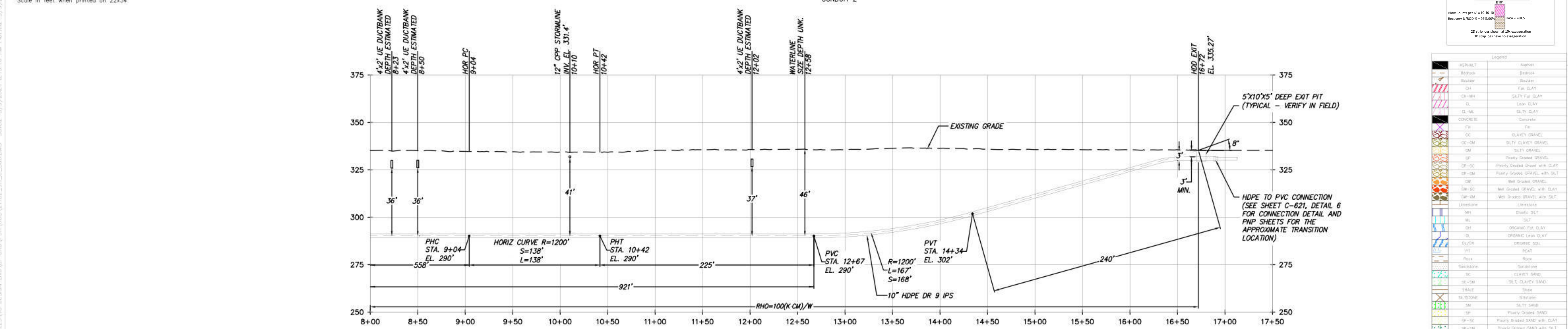
CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 8 (PACKAGE 5A) - CSX: ROTTERDAM - BETHLEHEM
PLAN AND PROFILE - HDD 73 PAGE 1 OF 2
DUANESBURG ROAD CROSSING - CONDUIT 2
SCHENECTADY COUNTY, NY

PERMIT DRAWING NO. **N/A**
 DRAWING NO. **C-308**

DRAWN BY: BC DESIGNED BY: NS APPROVED BY: BD SCALE AS SHOWN DATE: 06/09/2023



HDD 73 PLAN VIEW
CONDUIT 2



DESIGN AND CONSTRUCTION NOTES:

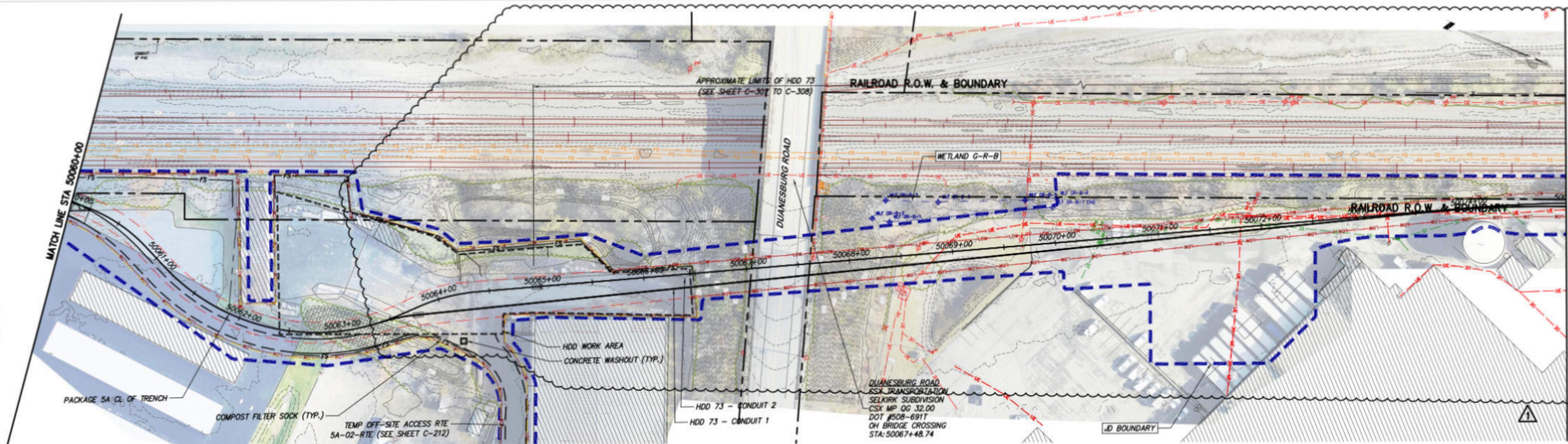
- INSTALLATION METHOD: HORIZONTAL DIRECTIONAL DRILL.
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GENERAL NOTES:

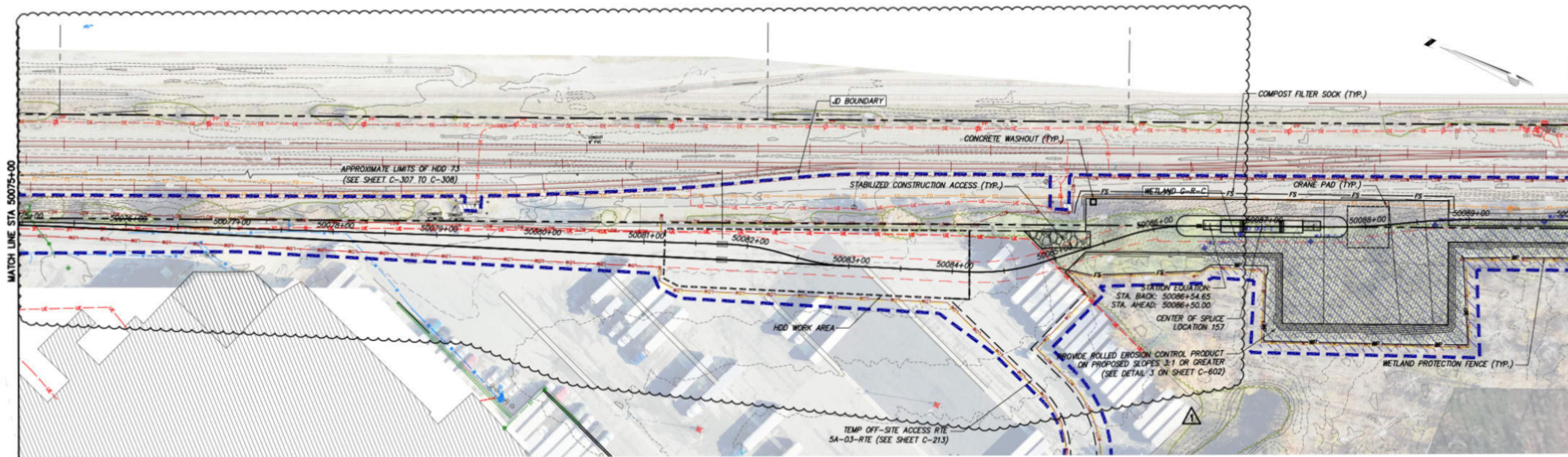
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HDD 73 PROFILE VIEW
CONDUIT 2

PROJECT NO.: 21162	PROJECT NO.: 204-3701	ALTERED ON:	AFFIXED ON: 05/08/2024	CHAMPLAIN HUDSON POWER EXPRESS SEGMENT 8 (PACKAGE 5A) - CSX: ROTTERDAM - BETHLEHEM PLAN AND PROFILE - HDD 73 PAGE 2 OF 2 DUANESBURG ROAD CROSSING - CONDUIT 2 SCHENECTADY COUNTY, NY		PERMIT DRAWING NO. N/A
				DRAWN BY: MRS DESIGNED BY: AMC APPROVED BY: EJK SCALE AS SHOWN		DRAWING NO. C-308.1
<p>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.</p>				<p>0 05/08/2024 ISSUED FOR CONSTRUCTION: NDC-0049 MRS EJK No. DATE SUBMITTAL / REVISION DESCRIPTION DB APP</p>		DATE: 05/08/2024



STA. 50060+00 TO STA. 50075+00 PLAN VIEW
SCALE: 1" = 50'



STA. 50075+00 TO STA. 50090+00 PLAN VIEW
SCALE: 1" = 50'



PROJECT NO.: 21162

PROJECT NO.: 120174

ALTERED ON: 05/08/2024

AFFIXED ON: 06/09/2023



Engineering and Land Surveying, P.C.



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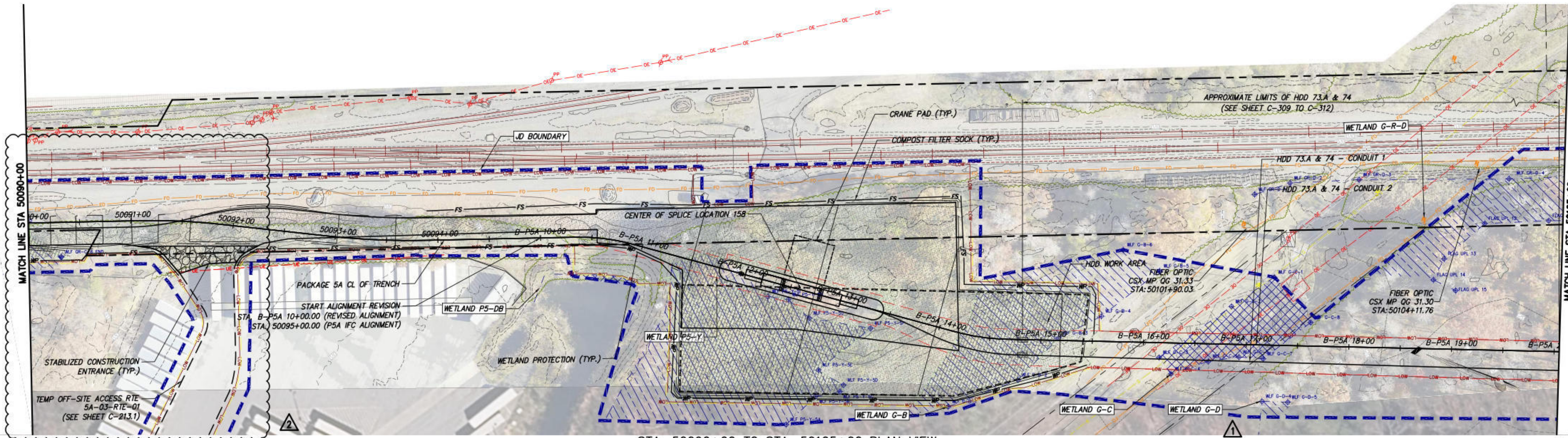
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	BL	BD	MK	NH	DB	APP
1	05/08/2024	NDC-0049: HDD 73 EXTENSION ON GOLUB PROPERTY						
0	06/09/2023	ISSUED FOR CONSTRUCTION SUBMISSION						

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 8 (PACKAGE 5A) - CSX: ROTTERDAM - BETHLEHEM
EROSION AND SEDIMENT CONTROL PLAN
STA. 50060+00 TO STA 50090+00

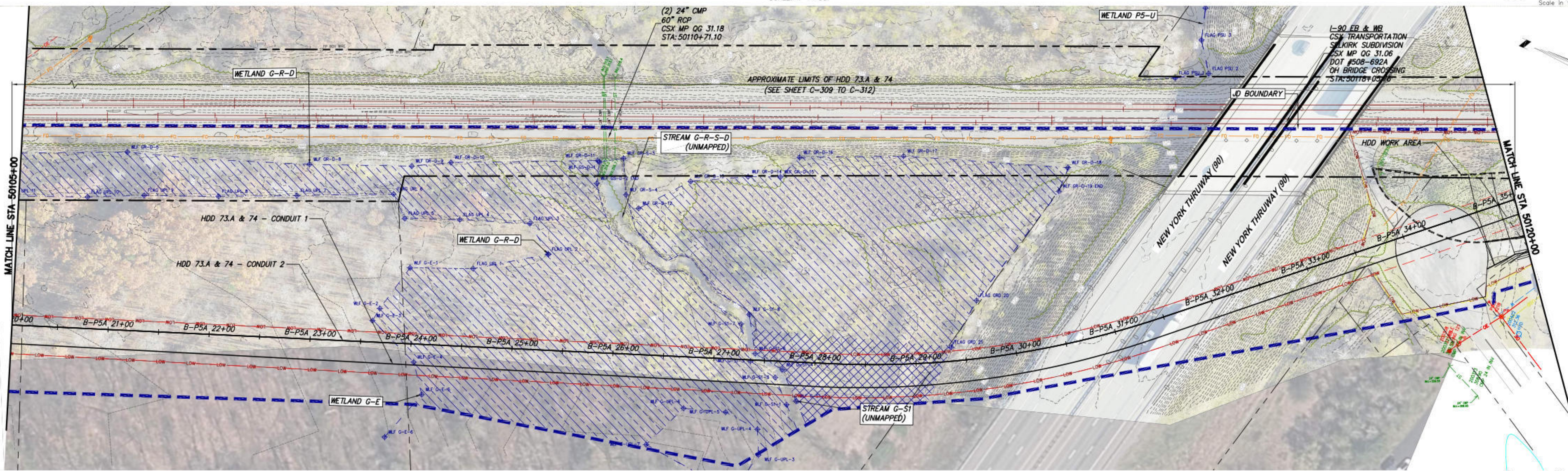
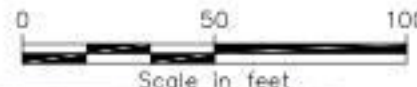
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PERMIT DRAWING NO. N/A
DRAWING NO. C-403

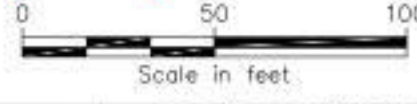
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STA. 50090+00 TO STA. 50105+00 PLAN VIEW
SCALE: 1" = 50'



STA. 50105+00 TO STA. 50120+00 PLAN VIEW
SCALE: 1" = 50'



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No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
2	05/08/2024	NDC-0049: HDD 73 EXTENSION ON GOLUB PROPERTY	BL	BD
1	03/13/2024	NDC-0020: HDD 73A REDESIGN	JR	BD
0	06/09/2023	ISSUED FOR CONSTRUCTION SUBMISSION	MK	NH

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 8 (PACKAGE 5A) - CSX: ROTTERDAM - BETHLEHEM
EROSION AND SEDIMENT CONTROL PLAN
STA. 50090+00 TO 50120+00

DRAWN BY: MK DESIGNED BY: MK APPROVED BY: NH SCALE AS SHOWN DATE: 06/09/2023

PERMIT DRAWING NO. **N/A**
DRAWING NO. **C-404**



CHPE LLC
623 Fifth Avenue, 20th Floor
New York, NY 10022

Segment 8 (Package 5A) EM&CP Appendix E Added Sheets – NDC-0049