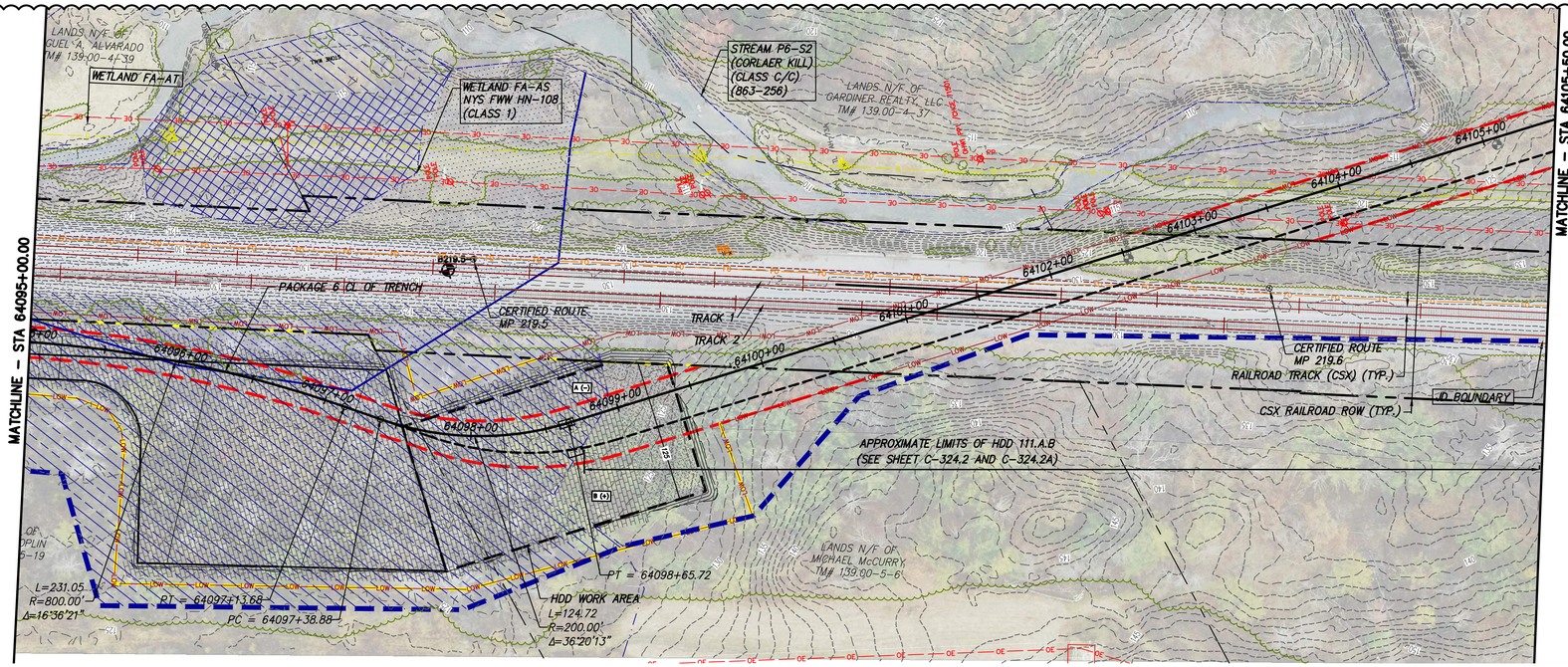
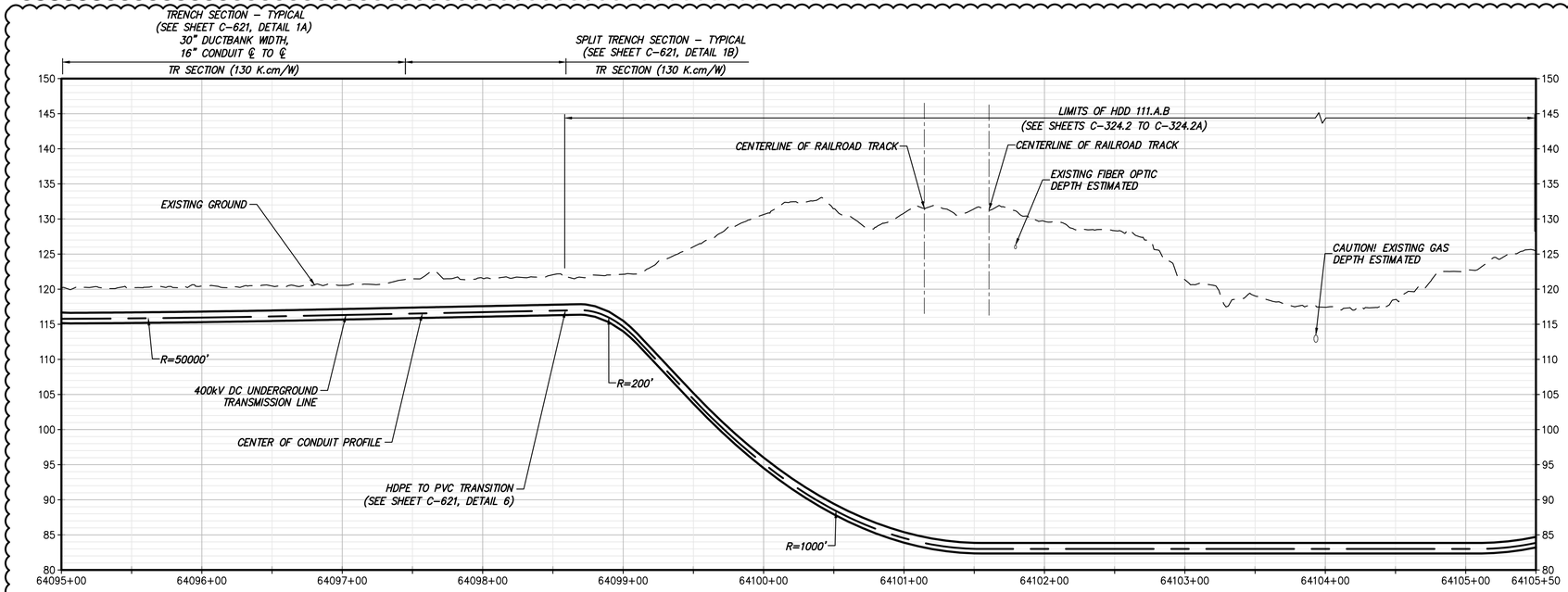


STA. 64905+00.00 TO STA. 64105+50.00 PLAN VIEW

SCALE: 1" = 50'

0 50 100
Scale in feet



STA. 64095+00.00 TO STA. 64105+50.00 PROFILE

SCALE: H: 1" = 50' V: 1" = 10'

CHPE Champlain Hudson Power Express

Kiewit

TETRA TECH

TETRA TECH ENGINEERING AND SURVEYING P.C.
(A NEW YORK PROFESSIONAL CORPORATION)

PROJECT NO.: 21162

PROJECT NO.: 204-3701

ALTERED ON: 10/22/2024

AFFIXED ON: 11/29/2023

STATE OF NEW YORK · JULIAN T. LEE · 106499 · LICENSED PROFESSIONAL ENGINEER · 10/22/2024

STATE OF NEW YORK · THOMAS A. KELLY · 106894 · LICENSED PROFESSIONAL ENGINEER · 2023.11.29

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	10/22/2024	NDC-0050: LEEDS ATHENS REROUTE	SS	JL
0	11/29/2023	ISSUED FOR CONSTRUCTION SUBMISSION	BV	TK

CHAMPLAIN HUDSON POWER EXPRESS

SEGMENT 10 (PACKAGE 6) - SELKIRK RAIL YARD BYPASS TO CATSKILL

STA. 64095+00.00 TO STA. 64105+50.00

HVDC CONDUIT PLAN AND PROFILE

(AND TEMPORARY ACCESS ROAD PLAN)

DRAWN BY: AR DESIGNED BY: BV APPROVED BY: TK SCALE AS SHOWN DATE: 11/29/2023

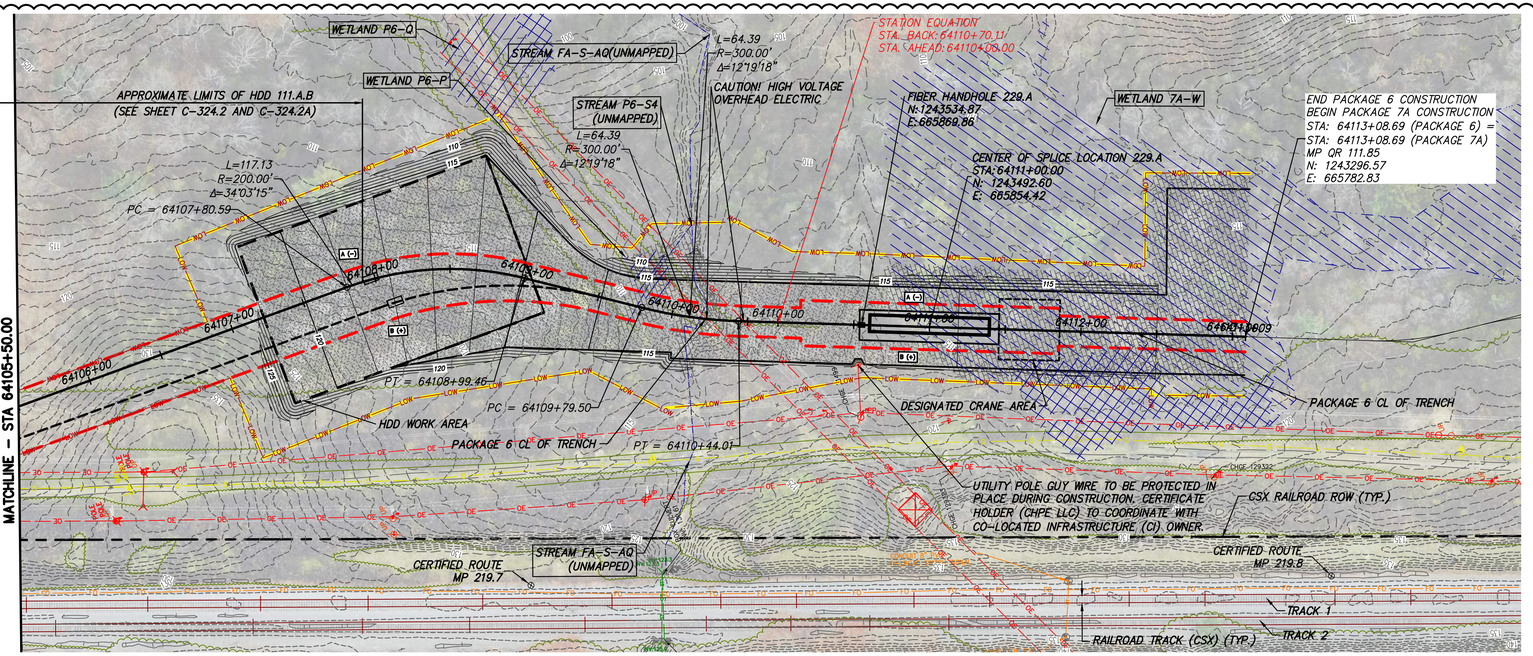
PERMIT DRAWING NO.

N/A

DRAWING NO.

C-174

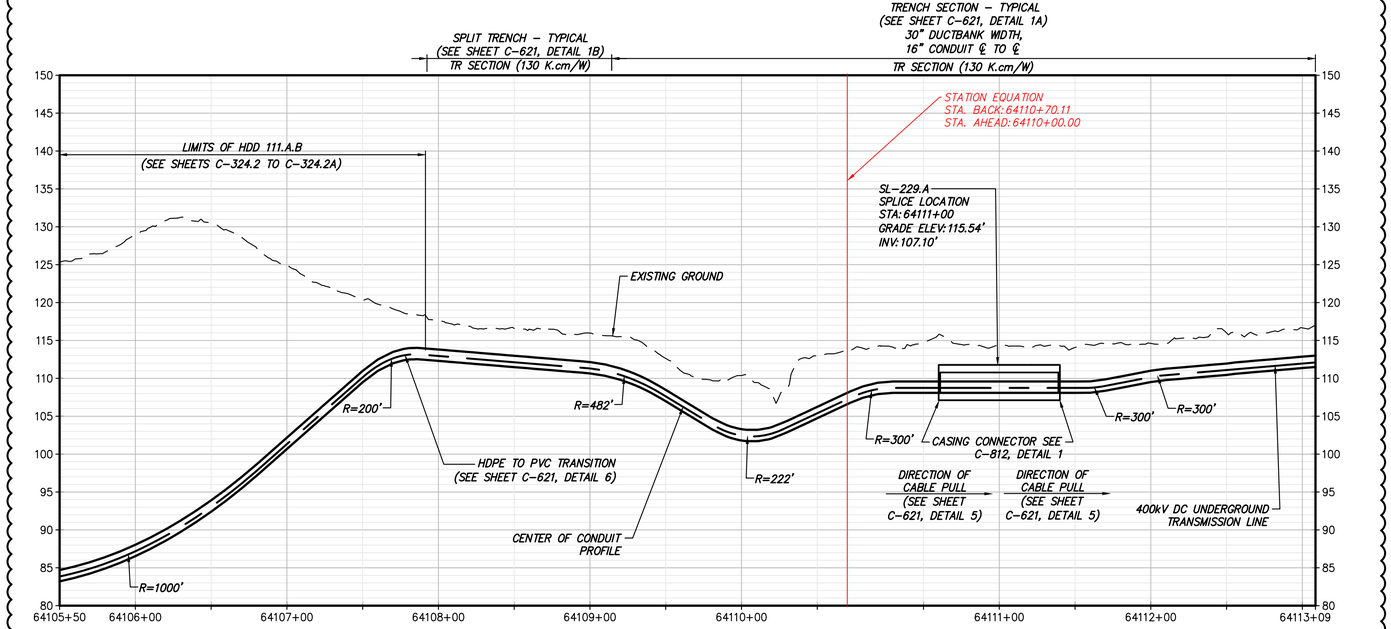
File: C:\ACC\ACCDOCS\KIEWIT\01480-CHPE_TRANS\PROJECT FILES\40 DESIGN ENG\01 CAD\P6\21162_6_C_171-175.DWG Saved: 10/18/2024 7:03:03 PM Plotted: 10/18/2024 7:24:18 PM Current User: House, Nyssa LastSavedBy: NYSSA.HOUSE



STA. 64105+50.00 TO STA. 64113+08.69 PLAN VIEW

SCALE: 1" = 50'

0 50 100
Scale in feet



STA.64105+50.00 TO STA. 64113+08.69 PROFILE

SCALE: H: 1" = 50' V: 1" = 10'

CHPE Champlain Hudson Power Express

PROJECT NO.: 21162

Kiewit

PROJECT NO.: 204-3701

TETRA TECH

TETRA TECH ENGINEERING AND SURVEYING P.C.
(A NEW YORK PROFESSIONAL CORPORATION)

ALTERED ON: 10/22/2024

STATE OF NEW YORK · JULIAN T. LEE · 106499 · LICENSED PROFESSIONAL ENGINEER · 10/22/2024

AFFIXED ON: 11/29/2023

STATE OF NEW YORK · THOMAS A. KELLY · 106556 · LICENSED PROFESSIONAL ENGINEER · 11/29/23

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No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
1	10/22/2024	NDC-0050: LEEDS ATHENS REROUTE	SS	JL
0	11/29/2023	ISSUED FOR CONSTRUCTION SUBMISSION	BV	TK

CHAMPLAIN HUDSON POWER EXPRESS

SEGMENT 10 (PACKAGE 6) - SELKIRK RAIL YARD BYPASS TO CATSKILL

STA. 64105+50.00 TO STA. 64113+08.69
HVDC CONDUIT PLAN AND PROFILE
(AND TEMPORARY ACCESS ROAD PLAN)

DRAWN BY: AR | DESIGNED BY: BV | APPROVED BY: TK | SCALE: AS SHOWN | DATE: 11/29/2023

PERMIT DRAWING NO.

N/A

DRAWING NO.

C-175

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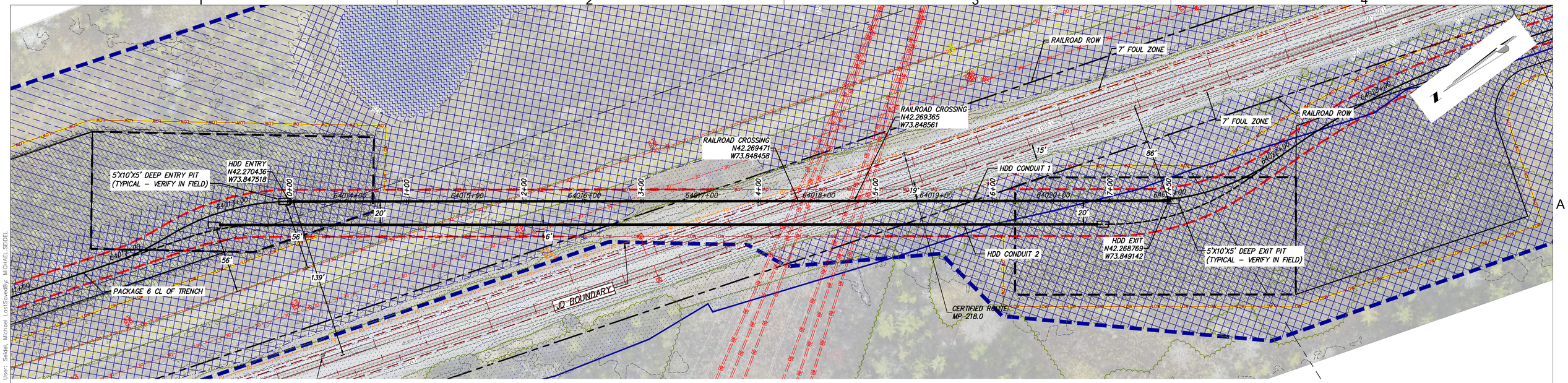
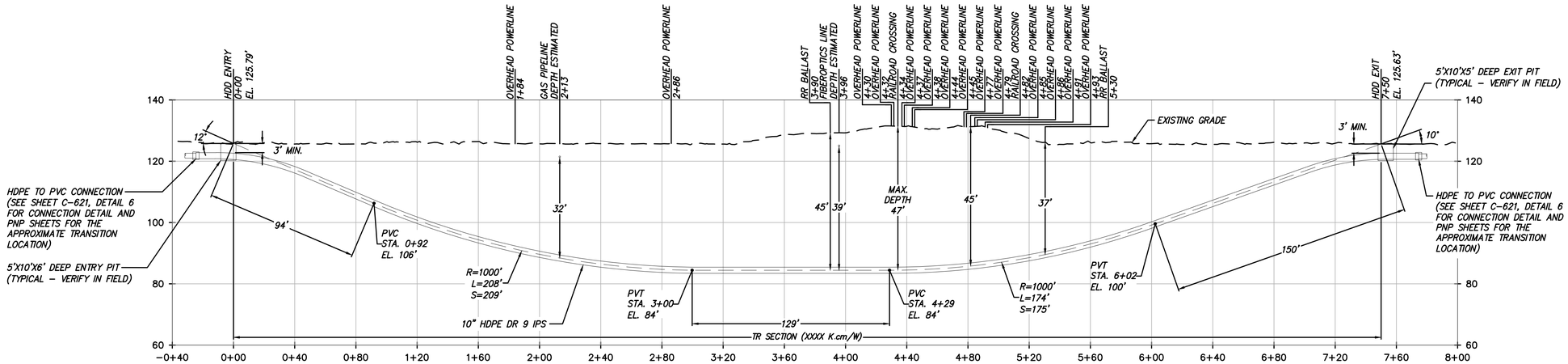


0 40 80
Scale in feet when printed on 22x34

HDD 111.A.A PLAN VIEW

CONDUIT 1



0 40 80
Scale in feet when printed on 22x34

HDD 111.A.A 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): 750'
   HDD DESIGNED PIPE LENGTH (S): 757'
3. THE MINIMUM THREE JOINT (APPROX. 100 FT) COMBINED CURVE (VERTICAL + HORIZONTAL) RADIUS SHALL NOT BE LESS THAN 600 FT.
4. THE MINIMUM SEPARATION DISTANCE FROM EXISTING SUBSURFACE UTILITIES SHALL NOT BE LESS THAN 10 FT.
5. DRILL CONTRACTOR AND/OR GEOTECHNICAL ENGINEER TO DETERMINE LENGTH OF TEMPORARY SURFACE/CONDUCTOR CASING.
6. 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.
7. 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. CONTRACTOR MUST CONTACT CSX WHENEVER ON RR ROW.
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 BORE REPORTS ARE IN PROGRESS. THE ENGINEERING SUPPORTING THIS DRAWING SUGGESTS THAT ADDITIONAL GEOTECHNICAL AND SUBSURFACE DATA WOULD BE BENEFICIAL. THE DESIGN ONLY REPRESENTS THE ANALYSIS AVAILABLE WHEN SEALED. CONFIRM WITH ENGINEER OF RECORD FOR REVIEW OF THE ADDITIONAL GEOTECHNICAL DATA PRIOR TO STARTING SUBSURFACE CONSTRUCTION ACTIVITIES.

BORING LOG STRIP LEGEND
B30L
Blow Counts per 6" = 10-10-10
Recovery %/RQD % = 95%/90%
≤1000psi =UCS
2D strip logs shown at 10x exaggeration
3D strip logs have no exaggeration

Legend

ASPHALT	Asphalt
Bedrock	Bedrock
Boulder	Boulder
CH	Fat CLAY
CH-MH	SILTY Fat CLAY
CL	Lean CLAY
CL-ML	SILTY CLAY
CONCRETE	Concrete
Fill	Fill
GC	CLAYEY GRAVEL
GC-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
GW	Well Graded GRAVEL
GW-GC	Well Graded GRAVEL with CLAY
GW-GM	Well Graded GRAVEL with SILT
Limestone	Limestone
MH	Elastic SILT
ML	SILT
OH	ORGANIC Fat CLAY
OL	ORGANIC Lean CLAY
OL/OH	ORGANIC SOIL
PT	PEAT
Rock	Rock
Sandstone	Sandstone
SC	CLAYEY SAND
SC-SM	SILT, CLAYEY SAND
SHALE	Shale
SILTSTONE	Siltstone
SM	SILTY SAND
SP	Poorly Graded SAND
SP-SC	Poorly Graded SAND with CLAY
SP-SM	Poorly Graded SAND with SILT
SW	Well graded SAND
SW-SC	Well Graded SAND with CLAY
SW-SM	Well Graded SAND with SILT
Topsoil	Topsoil
USGS 601	Gravel or Conglomerate 1
USGS 654	Subgraywacke
USGS 670	Interbedded Sandstone and Shale
USGS 702	Quartzite
USGS 705	Schist
USGS 705	Schist
USGS 708	Gneiss
USGS 708	Gneiss
USGS 718	Granite 1
Void	Void
Water	Water
Weathered Rock	Undefined
Water Table	Water Table during drilling
Delayed Water Table	Water Table after drilling

CHPE Champlain Hudson Power Express

PROJECT NO.: 21162 — Kiewit

PROJECT NO.: 204-3701 — TETRA TECH
TETRA TECH ENGINEERING AND SURVEYING P.C.
(A NEW YORK PROFESSIONAL CORPORATION)

ALTERED ON:

AFFIXED ON: 10/22/2024

STATE OF NEW YORK · EDWARD J. KELLY · 094981 · LICENSED PROFESSIONAL ENGINEER

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No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
0	10/22/2024	NDC-0050: LEEDS ATHENS REROUTE	MRS	EJK

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 10 (PACKAGE 6) - SELKIRK RAIL YARD TO CATSKILL
PLAN AND PROFILE - HDD 111.A.A
RAILROAD CROSSING - CONDUIT 1
GREENE COUNTY, NY

DRAWN BY: MRS | DESIGNED BY: AMC | APPROVED BY: EJK | SCALE AS SHOWN | DATE: 09/20/2024

PERMIT DRAWING NO.
N/A

DRAWING NO.
C-324.1

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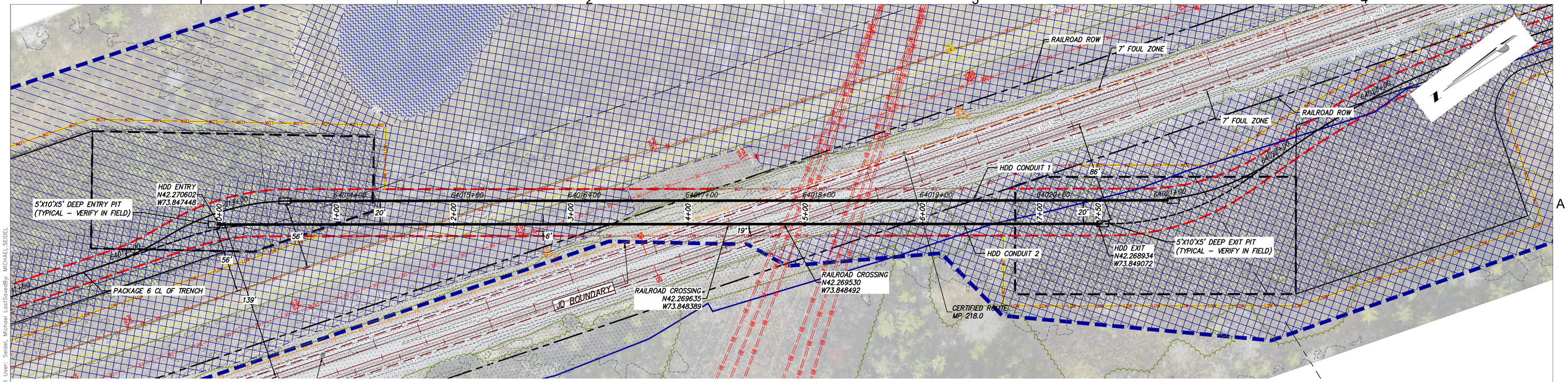
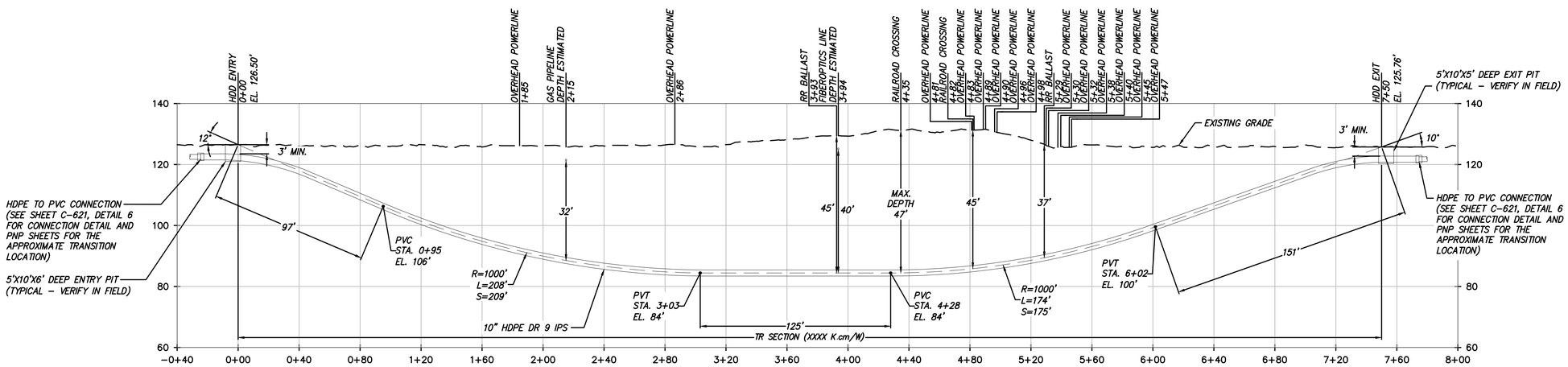
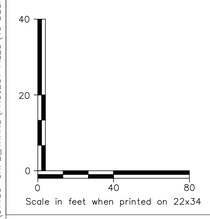


0 40 80
Scale in feet when printed on 22x34

HDD 111.A.A PLAN VIEW

CONDUIT 2





Scale in feet when printed on 22x34

HDD 111.A.A 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.
   HDD HORIZONTAL LENGTH (L): 750'
   HDD DESIGNED PIPE LENGTH (S): 757'
3. THE MINIMUM THREE JOINT (APPROX. 100 FT) COMBINED CURVE (VERTICAL + HORIZONTAL) RADIUS SHALL NOT BE LESS THAN 600 FT.
4. THE MINIMUM SEPARATION DISTANCE FROM EXISTING SUBSURFACE UTILITIES SHALL NOT BE LESS THAN 10 FT.
5. DRILL CONTRACTOR AND/OR GEOTECHNICAL ENGINEER TO DETERMINE LENGTH OF TEMPORARY SURFACE/CONDUCTOR CASING.
6. 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.
7. 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. CONTRACTOR MUST CONTACT CSX WHENEVER ON RR ROW.
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BORING LOG STRIP LEGEND

B30L
Blow Counts per 6" = 10-10-10
Recovery %/RQD % = 95%/90%
11000psi =UCS
2D strip logs shown at 10x exaggeration
3D strip logs have no exaggeration

Legend	
ASPHALT	Asphalt
Bedrock	Bedrock
Boulder	Boulder
CH	Fat CLAY
CH-MH	SILTY Fat CLAY
CL	Lean CLAY
CL-ML	SILTY CLAY
CONCRETE	Concrete
Fill	Fill
GC	CLAYEY GRAVEL
GC-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
GW	Well Graded GRAVEL
GW-GC	Well Graded GRAVEL with CLAY
GW-GM	Well Graded GRAVEL with SILT
Limestone	Limestone
MH	Elastic SILT
ML	SILT
OH	ORGANIC Fat CLAY
OL	ORGANIC Lean CLAY
OL/OH	ORGANIC SOIL
PT	PEAT
Rock	Rock
Sandstone	Sandstone
SC	CLAYEY SAND
SC-SM	SILT, CLAYEY SAND
SHALE	Shale
SILTSTONE	Siltstone
SM	SILTY SAND
SP	Poorly Graded SAND
SP-SC	Poorly Graded SAND with CLAY
SP-SM	Poorly Graded SAND with SILT
SW	Well graded SAND
SW-SC	Well Graded SAND with CLAY
SW-SM	Well Graded SAND with SILT
Topsoil	Topsoil
USGS 601	Gravel or Conglomerate 1
USGS 654	Subgraywacke
USGS 670	Interbedded Sandstone and Shale
USGS 702	Quartzite
USGS 705	Schist
USGS 705	Schist
USGS 708	Gneiss
USGS 708	Gneiss
USGS 718	Granite 1
Void	Void
Water	Water
Weathered Rock	Undefined
Water Table	Water Table during drilling
Delayed Water Table	Water Table after drilling

CHPE Champlain Hudson Power Express

PROJECT NO.: 21162

Kiewit

PROJECT NO.: 204-3701

TETRA TECH

TETRA TECH ENGINEERING AND SURVEYING P.C.
(A NEW YORK PROFESSIONAL CORPORATION)

ALTERED ON:

AFFIXED ON: 10/22/2024

STATE OF NEW YORK · EDWARD J. KELLY · 094981 · LICENSED PROFESSIONAL ENGINEER

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No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
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CHAMPLAIN HUDSON POWER EXPRESS

SEGMENT 10 (PACKAGE 6) - SELKIRK RAIL YARD TO CATSKILL

PLAN AND PROFILE - HDD 111.A.A

RAILROAD CROSSING - CONDUIT 2

GREENE COUNTY, NY

DRAWN BY: MRS | DESIGNED BY: AMC | APPROVED BY: EJK | SCALE AS SHOWN | DATE: 09/20/2024

PERMIT DRAWING NO.

N/A

DRAWING NO.

C-324.1A

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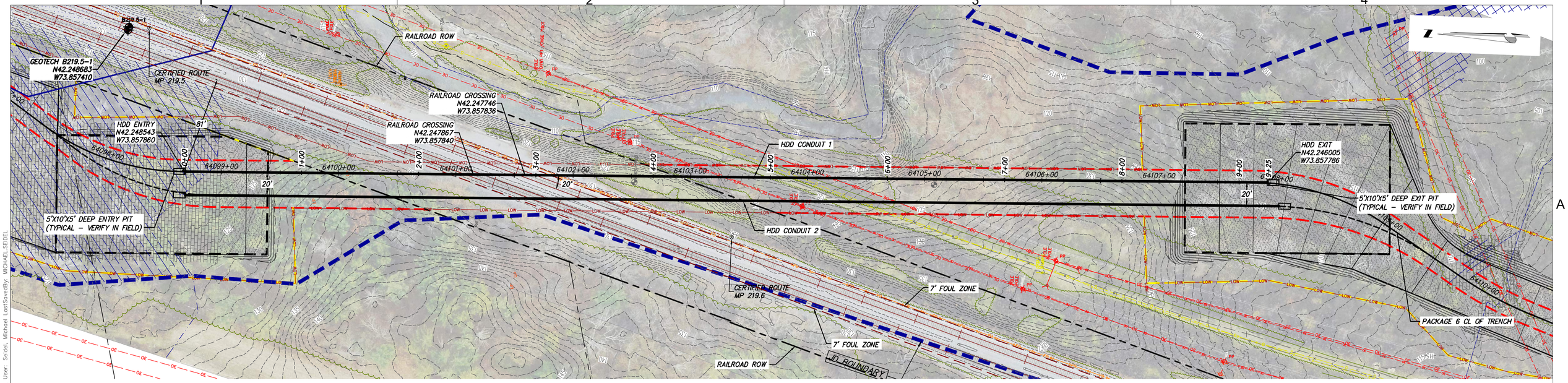
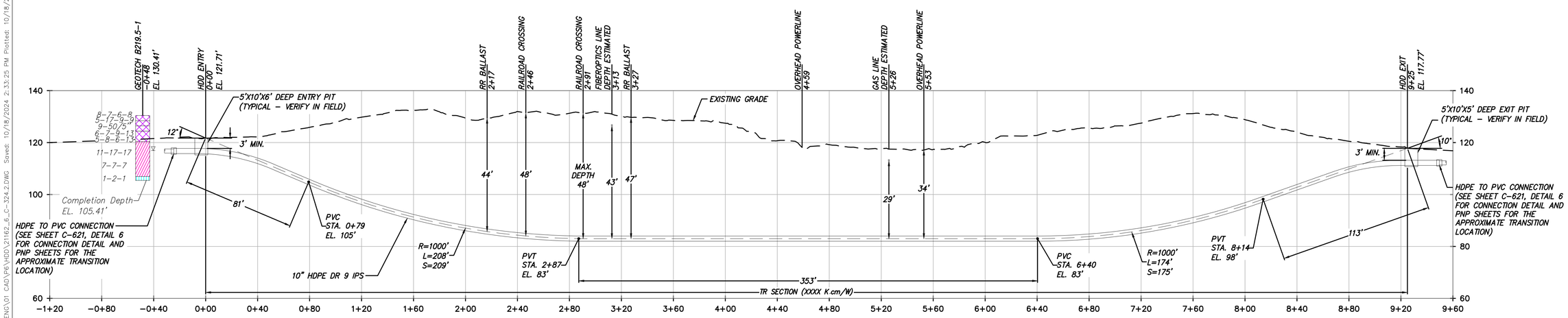


HDD 111.A.B PLAN VIEW

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): 925'
   HDD DESIGNED PIPE LENGTH (S): 931'
3. THE MINIMUM THREE JOINT (APPROX. 100 FT) COMBINED CURVE (VERTICAL + HORIZONTAL) RADIUS SHALL NOT BE LESS THAN 600 FT.
4. THE MINIMUM SEPARATION DISTANCE FROM EXISTING SUBSURFACE UTILITIES SHALL NOT BE LESS THAN 10 FT.
5. DRILL CONTRACTOR AND/OR GEOTECHNICAL ENGINEER TO DETERMINE LENGTH OF TEMPORARY SURFACE/CONDUCTOR CASING.
6. 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.
7. BUOYANCY CONTROL MEASURES (INTERNAL WATER USED FOR BALLAST) SHALL BE UTILIZED DURING PULLBACK FOR ALL BUNDLED CASINGS AT DRILL CONTRACTOR'S DISCRETION.

GENERAL NOTES:

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HDD 111.A.B PROFILE VIEW

CONDUIT 1

BORING LOG STRIP LEGEND

B19A
Blow Counts per 6" = 10-10-10
Recovery %/RQD % = 95%/90%
≤11000psi =UCS

20 strip logs shown at 10x exaggeration
3D strip logs have no exaggeration

Legend

ASPHALT	Asphalt
Bedrock	Bedrock
Boulder	Boulder
CH	Fat CLAY
CH-MH	SILTY Fat CLAY
CL	Lean CLAY
CL-ML	SILTY CLAY
CONCRETE	Concrete
Fill	Fill
GC	CLAYEY GRAVEL
GC-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
GW	Well Graded GRAVEL
GW-GC	Well Graded GRAVEL with CLAY
GW-GM	Well Graded GRAVEL with SILT
Limestone	Limestone
MH	Elastic SILT
ML	SILT
OH	ORGANIC Fat CLAY
OL	ORGANIC Lean CLAY
OL/OH	ORGANIC SOIL
PT	PEAT
Rock	Rock
Sandstone	Sandstone
SC	CLAYEY SAND
SC-SM	SILT, CLAYEY SAND
SHALE	Shale
SILTSTONE	Siltstone
SM	SILTY SAND
SP	Poorly Graded SAND
SP-SC	Poorly Graded SAND with CLAY
SP-SM	Poorly Graded SAND with SILT
SW	Well graded SAND
SW-SC	Well Graded SAND with CLAY
SW-SM	Well Graded SAND with SILT
Topsoil	Topsoil
USGS 601	Gravel or Conglomerate 1
USGS 654	Subgraywacke
USGS 670	Interbedded Sandstone and Shale
USGS 702	Quartzite
USGS 705	Schist
USGS 705	Schist
USGS 708	Gneiss
USGS 708	Gneiss
USGS 718	Granite 1
Void	Void
Water	Water
Weathered Rock	Undefined
Water Table	Water Table during drilling
Delayed Water Table	Water Table after drilling

CHPE Champlain Hudson Power Express

PROJECT NO.: 21162

Kiewit

PROJECT NO.: 204-3701

TETRA TECH

TETRA TECH ENGINEERING AND SURVEYING P.C.
(A NEW YORK PROFESSIONAL CORPORATION)

ALTERED ON:

AFFIXED ON: 10/22/2024

STATE OF NEW YORK · EDWARD J. KELLY · 094081 · LICENSED PROFESSIONAL ENGINEER

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No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
0	10/22/2024	NDC-0050: LEEDS ATHENS REROUTE	MRS	EJK

CHAMPLAIN HUDSON POWER EXPRESS

SEGMENT 10 (PACKAGE 6) - SELKIRK RAIL YARD TO CATSKILL

PLAN AND PROFILE - HDD 111.A.B

RAILROAD CROSSING - CONDUIT 1

GREENE COUNTY, NY

DRAWN BY: MRS | DESIGNED BY: AMC | APPROVED BY: EJK | SCALE: AS SHOWN | DATE: 09/20/2024

PERMIT DRAWING NO.

N/A

DRAWING NO.

C-324.2

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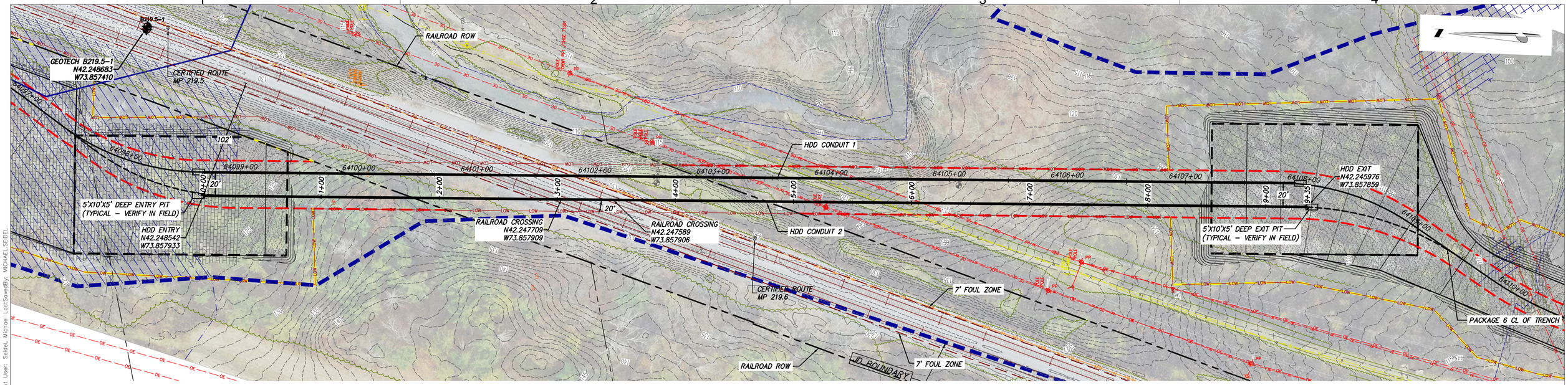
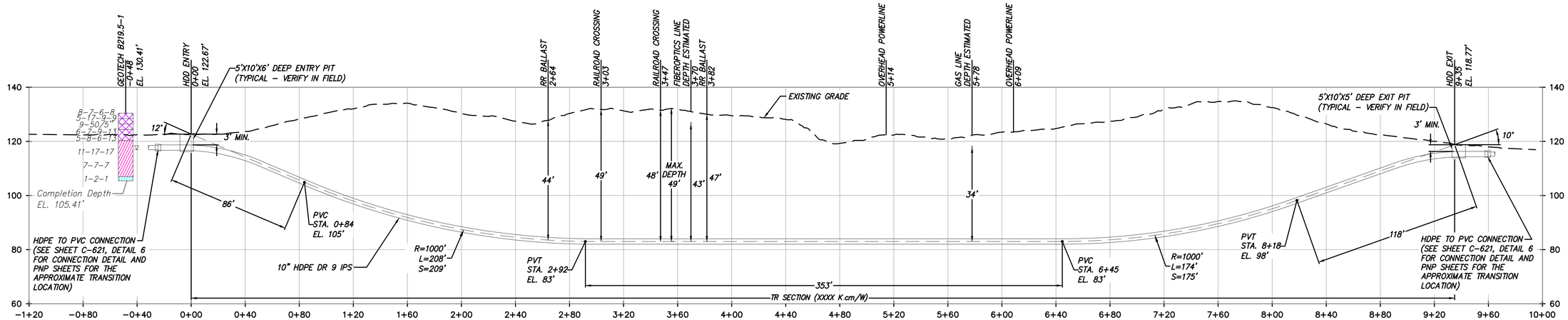


HDD 111.A.B PLAN VIEW

CONDUIT 2



HDD 111.A.B 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.
   HDD HORIZONTAL LENGTH (L): 935'
   HDD DESIGNED PIPE LENGTH (S): 941'
3. THE MINIMUM THREE JOINT (APPROX. 100 FT) COMBINED CURVE (VERTICAL + HORIZONTAL) RADIUS SHALL NOT BE LESS THAN 600 FT.
4. THE MINIMUM SEPARATION DISTANCE FROM EXISTING SUBSURFACE UTILITIES SHALL NOT BE LESS THAN 10 FT.
5. DRILL CONTRACTOR AND/OR GEOTECHNICAL ENGINEER TO DETERMINE LENGTH OF TEMPORARY SURFACE/CONDUCTOR CASING.
6. 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.
7. 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. CONTRACTOR MUST CONTACT CSX WHENEVER ON RR ROW.
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 BORE REPORTS ARE IN PROGRESS. THE ENGINEERING SUPPORTING THIS DRAWING SUGGESTS THAT ADDITIONAL GEOTECHNICAL AND SUBSURFACE DATA WOULD BE BENEFICIAL. THE DESIGN ONLY REPRESENTS THE ANALYSIS AVAILABLE WHEN SEALED. CONFIRM WITH ENGINEER OF RECORD FOR REVIEW OF THE ADDITIONAL GEOTECHNICAL DATA PRIOR TO STARTING SUBSURFACE CONSTRUCTION ACTIVITIES.

BORING LOG STRIP LEGEND

B19L
Blow Counts per 6" = 10-10-10
Recovery %/RQD % = 95%/90%
11000psi =UCS
2D strip logs shown at 10x exaggeration
3D strip logs have no exaggeration

Legend

ASPHALT	Asphalt
Bedrock	Bedrock
Boulder	Boulder
CH	Fat CLAY
CH–MH	SILTY Fat CLAY
CL	Lean CLAY
CL–ML	SILTY CLAY
CONCRETE	Concrete
Fill	Fill
GC	CLAYEY GRAVEL
GC–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
GW	Well Graded GRAVEL
GW–GC	Well Graded GRAVEL with CLAY
GW–GM	Well Graded GRAVEL with SILT
Limestone	Limestone
MH	Elastic SILT
ML	SILT
OH	ORGANIC Fat CLAY
OL	ORGANIC Lean CLAY
OL/OH	ORGANIC SOIL
PT	PEAT
Rock	Rock
Sandstone	Sandstone
SC	CLAYEY SAND
SC–SM	SILT, CLAYEY SAND
SHALE	Shale
SILTSTONE	Siltstone
SM	SILTY SAND
SP	Poorly Graded SAND
SP–SC	Poorly Graded SAND with CLAY
SP–SM	Poorly Graded SAND with SILT
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SW–SM	Well Graded SAND with SILT
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USGS 654	Subgraywacke
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USGS 702	Quartzite
USGS 705	Schist
USGS 705	Schist
USGS 708	Gneiss
USGS 708	Gneiss
USGS 718	Granite 1
Void	Void
Water	Water
Weathered Rock	Undefined
Water Table	Water Table during drilling
Delayed Water Table	Water Table after drilling

CHPE Champlain Hudson Power Express

PROJECT NO.: 21162

Kiewit

PROJECT NO.: 204-3701

TETRA TECH

TETRA TECH ENGINEERING AND SURVEYING P.C.
(A NEW YORK PROFESSIONAL CORPORATION)

ALTERED ON:

AFFIXED ON: 10/22/2024

STATE OF NEW YORK · EDWARD J. KELLY · 094981 · LICENSED PROFESSIONAL ENGINEER

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CHAMPLAIN HUDSON POWER EXPRESS

SEGMENT 10 (PACKAGE 6) - SELKIRK RAIL YARD TO CATSKILL

PLAN AND PROFILE - HDD 111.A.B
RAILROAD CROSSING - CONDUIT 2
GREENE COUNTY, NY

DRAWN BY: MRS | DESIGNED BY: AMC | APPROVED BY: EJK | SCALE AS SHOWN | DATE: 09/20/2024

PERMIT DRAWING NO.

N/A

DRAWING NO.

C-324.2A

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CHPE Champlain Hudson Power Express

PROJECT NO.: 21162

Kiewit

PROJECT NO.: 204-3701

TETRA TECH

TETRA TECH ENGINEERING AND SURVEYING P.C.
(A NEW YORK PROFESSIONAL CORPORATION)

ALTERED ON: 10/22/2024

STATE OF NEW YORK · EDWARD J. KELLY · 094981 · LICENSED PROFESSIONAL ENGINEER

AFFIXED ON: 03/04/2024

STATE OF NEW YORK · TODD KILDUFF · 090602 · LICENSED PROFESSIONAL ENGINEER

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
3	10/22/2024	NDC-0050: LEEDS ATHENS REROUTE	MS	EK
2	06/21/2024	NDC-0105: HDD TRANSITION AREA RECONCILIATION	MS	EK
1	03/04/2024	NDC-0078: REVISIONS PER CHG&E	SA	TK
0	11/29/2023	ISSUED FOR CONSTRUCTION SUBMISSION	NW	TK

CHAMPLAIN HUDSON POWER EXPRESS

SEGMENT 10 (PACKAGE 6) - SELKIRK RAIL YARD TO CATSKILL

PROPOSED PLAN AND PROFILE - HDD 111.A

CREEK CROSSING - CONDUIT 1

GREENE COUNTY, NY

DRAWN BY: NW | DESIGNED BY: SA | APPROVED BY: TK | SCALE: AS SHOWN | DATE: 11/29/2023

PERMIT DRAWING NO.

N/A

DRAWING NO.

C-325

SHEET NOT USED

CHPE Champlain Hudson Power Express

Kiewit

TETRA TECH

TETRA TECH ENGINEERING AND SURVEYING P.C.
(A NEW YORK PROFESSIONAL CORPORATION)

PROJECT NO.: 21162	PROJECT NO.: 204-3701	ALTERED ON: 10/22/2024	AFFIXED ON: 03/04/2024

STATE OF NEW YORK · EDWARD J. KELLY · 094981 · LICENSED PROFESSIONAL ENGINEER

STATE OF NEW YORK · TODD KILDUFF · 530602 · LICENSED PROFESSIONAL ENGINEER

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0	11/29/2023	ISSUED FOR CONSTRUCTION SUBMISSION	BV	TK

CHAMPLAIN HUDSON POWER EXPRESS

SEGMENT 10 (PACKAGE 6) - SELKIRK RAIL YARD TO CATSKILL

PROPOSED PLAN AND PROFILE - HDD 111.A

CREEK CROSSING - CONDUIT 1

GREENE COUNTY, NY

DRAWN BY: NW | DESIGNED BY: SA | APPROVED BY: TK | SCALE: AS SHOWN | DATE: 11/29/2023

PERMIT DRAWING NO.: N/A

DRAWING NO.: C-325A

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SHEET NOT USED

CHPE Champlain Hudson Power Express

PROJECT NO.: 21162

Kiewit

PROJECT NO.: 204-3701

TETRA TECH

TETRA TECH ENGINEERING AND SURVEYING P.C.
(A NEW YORK PROFESSIONAL CORPORATION)

ALTERED ON: 10/22/2024

STATE OF NEW YORK · EDWARD J. KELLY · 094981 · LICENSED PROFESSIONAL ENGINEER

AFFIXED ON: 03/04/2024

STATE OF NEW YORK · TODD KILDUFF · 090602 · LICENSED PROFESSIONAL ENGINEER

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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 10 (PACKAGE 6) - SELKIRK RAIL YARD TO CATSKILL
PROPOSED PLAN AND PROFILE - HDD 111.A
CREEK CROSSING - CONDUIT 2
GREENE COUNTY, NY

DRAWN BY: NW | DESIGNED BY: SA | APPROVED BY: TK | SCALE: AS SHOWN | DATE: 11/29/2023

PERMIT DRAWING NO.: N/A

DRAWING NO.: C-325B

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Champlain Hudson Power Express

PROJECT NO.: 21162

Kiewit

PROJECT NO.: 204-3701

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(A NEW YORK PROFESSIONAL CORPORATION)

ALTERED ON: 10/22/2024

STATE OF NEW YORK · EDWARD J. KELLY · 094981 · LICENSED PROFESSIONAL ENGINEER

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0	11/29/2023	ISSUED FOR CONSTRUCTION SUBMISSION	BV	TK

CHAMPLAIN HUDSON POWER EXPRESS

SEGMENT 10 (PACKAGE 6) - SELKIRK RAIL YARD TO CATSKILL

PROPOSED PLAN AND PROFILE - HDD 111.A

CREEK CROSSING - CONDUIT 2

GREENE COUNTY, NY

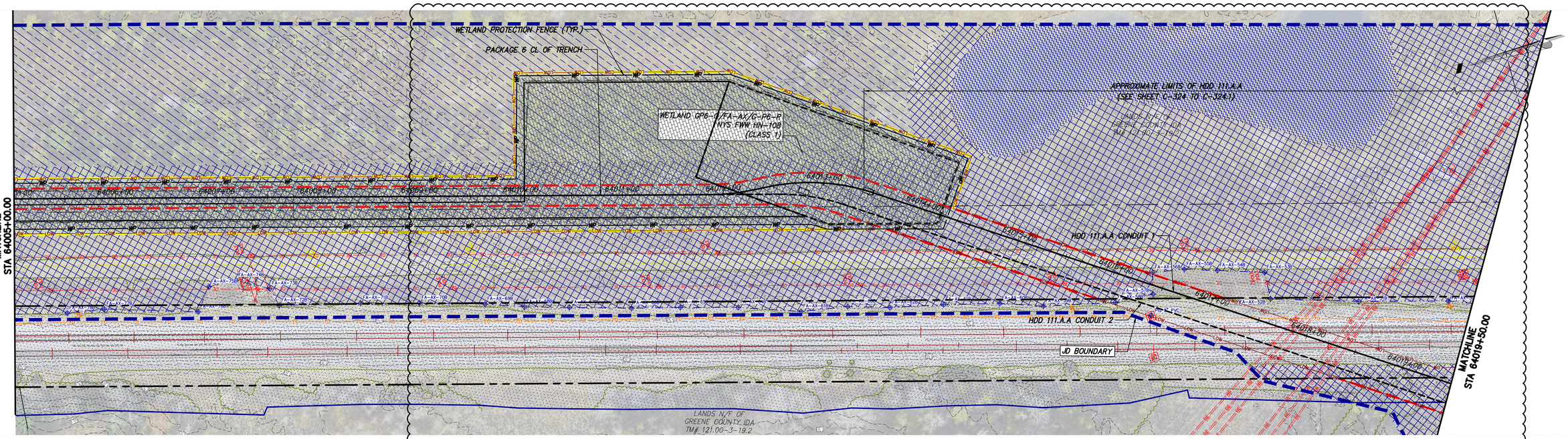
DRAWN BY: NW | DESIGNED BY: SA | APPROVED BY: TK | SCALE: AS SHOWN | DATE: 11/29/2023

PERMIT DRAWING NO.

N/A

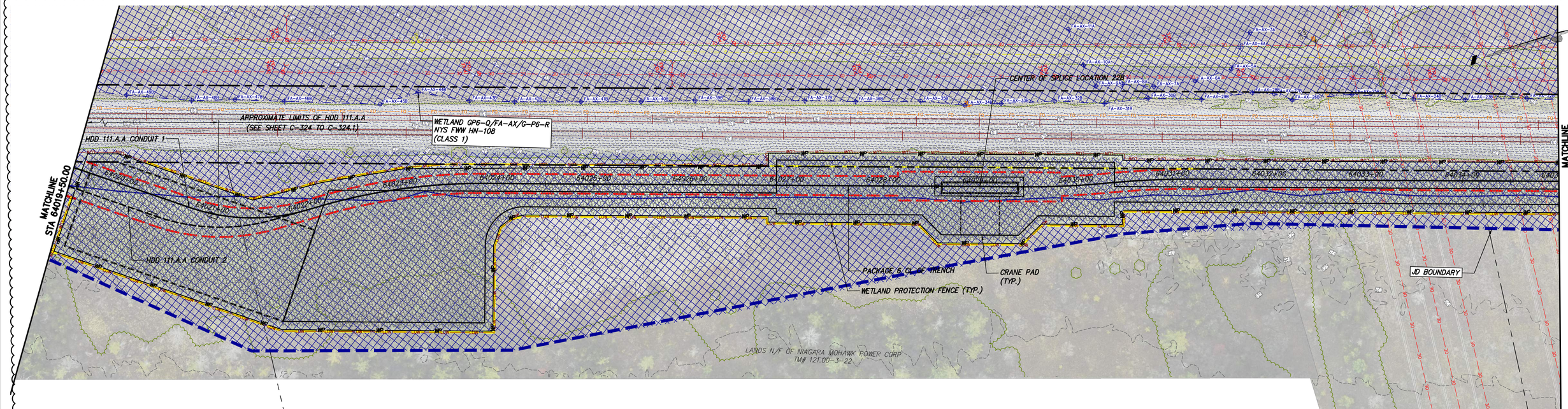
DRAWING NO.

C-325C



STA. 64005+00 TO STA. 64019+50 PLAN VIEW

SCALE: 1" = 50'



STA. 64019+50 TO STA. 64035+00 PLAN VIEW

SCALE: 1" = 50'

CHPE Champlain Hudson Power Express

PROJECT NO.: 21162	PROJECT NO.: 120174	ALTERED ON: 10/18/2024	AFFIXED ON: 09/29/2023
Kiewit	Engineering and Land Surveying, P.C.	STATE OF NEW YORK · DANIT BIRBAL SINGH · 25736 · LICENSED PROFESSIONAL ENGINEER	STATE OF NEW YORK · NATHANIEL DALE HAVENER · 103692 · LICENSED PROFESSIONAL ENGINEER

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No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
2	10/18/2024	NDC-0050: LEEDS ATHENS REROUTE	JR	BD
1	10/31/2023	IFC SUBMISSION - CONSERV. ESMTS	JR	BD
0	09/29/2023	ISSUED FOR CONSTRUCTION SUBMISSION	TM/MK	NH

CHAMPLAIN HUDSON POWER EXPRESS

SEGMENT 10 (PACKAGE 6) - SELKIRK RAIL YARD BYPASS TO CATSKILL

EROSION AND SEDIMENT CONTROL PLAN

STA. 64005+00 TO STA. 64035+00

DRAWN BY: TH/AJ | DESIGNED BY: MK | APPROVED BY: NH | SCALE | DATE: 09/29/2023

PERMIT DRAWING NO.: N/A

DRAWING NO.: C-435

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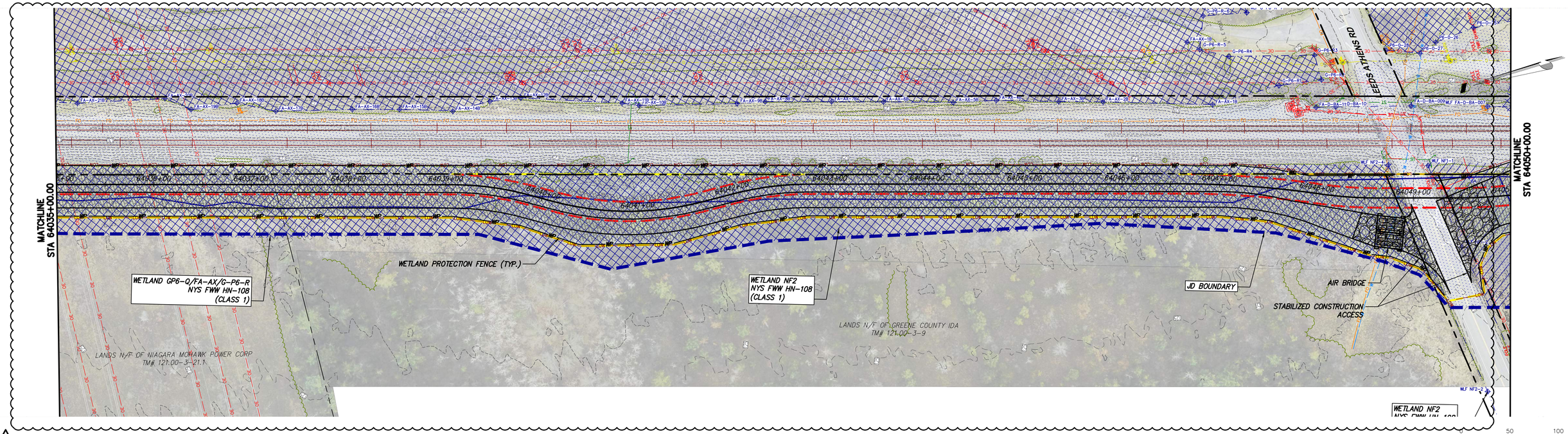
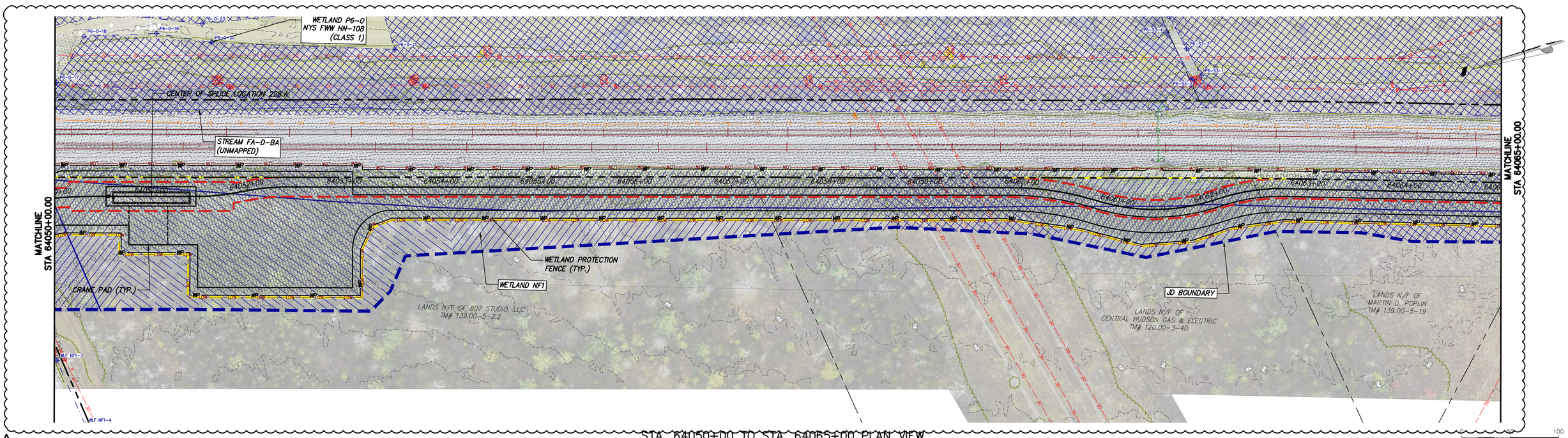


STA. 64035+00 TO STA. 64050+00 PLAN VIEW

SCALE: 1" = 50'

0 50 100
Scale in feet



STA. 64050+00 TO STA. 64065+00 PLAN VIEW

SCALE: 1" = 50'

0 50 100
Scale in feet

CHPE Champlain Hudson Power Express

PROJECT NO.: 21162	PROJECT NO.: 120174	ALTERED ON: 10/18/2024	AFFIXED ON: 09/29/2023
Kiewit	Engineering and Land Surveying, P.C.	STATE OF NEW YORK · DANY BIRBAL SINGH · 105758 · LICENSED PROFESSIONAL ENGINEER	STATE OF NEW YORK · NATHANIEL DALE HAVENER · 103692 · LICENSED PROFESSIONAL ENGINEER

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0	09/29/2023	ISSUED FOR CONSTRUCTION SUBMISSION	TM/MK	NH

CHAMPLAIN HUDSON POWER EXPRESS

SEGMENT 10 (PACKAGE 6) - SELKIRK RAIL YARD BYPASS TO CATSKILL

EROSION AND SEDIMENT CONTROL PLAN

STA. 64035+00 TO STA. 64065+00

DRAWN BY: TH/AJ | DESIGNED BY: MK | APPROVED BY: NH | SCALE | DATE: 09/29/2023

PERMIT DRAWING NO.

N/A

DRAWING NO.

C-436

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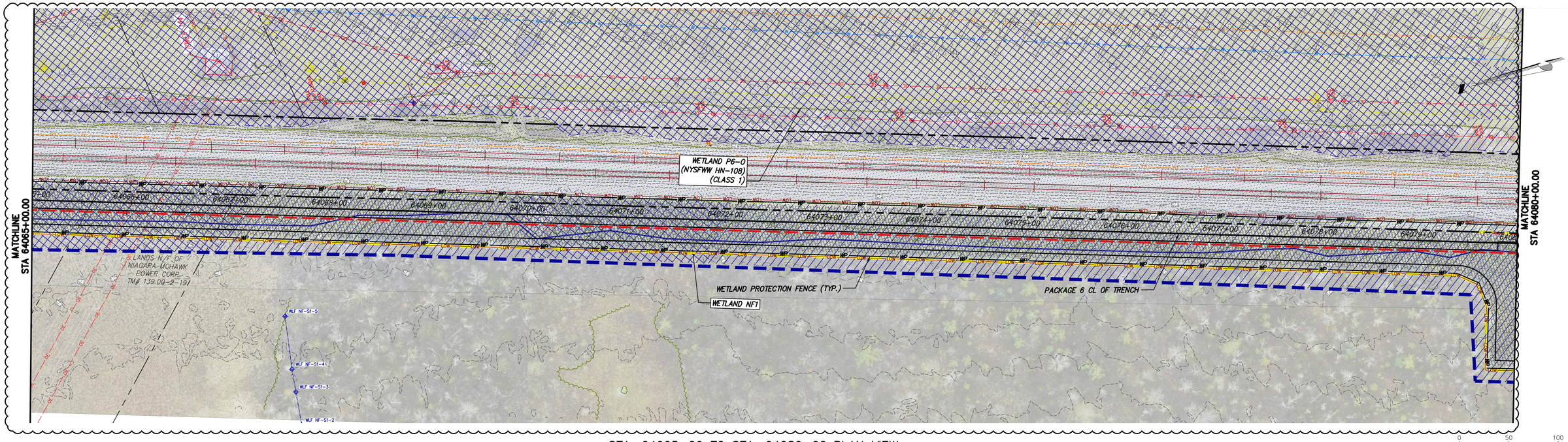
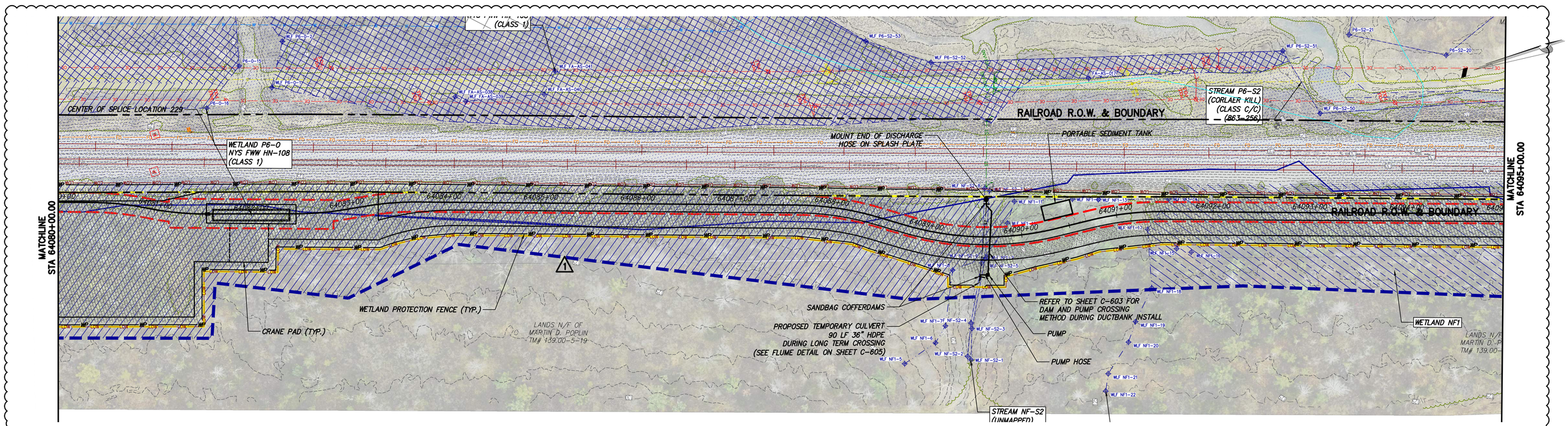


STA. 64065+00 TO STA. 64080+00 PLAN VIEW

SCALE: 1" = 50'

0 50 100
Scale in feet



STA. 64080+00 TO STA. 64095+00 PLAN VIEW

SCALE: 1" = 50'

0 50 100
Scale in feet

CHPE Champlain Hudson Power Express

PROJECT NO.: 21162 — Kiewit

PROJECT NO.: 120174 — Engineering and Land Surveying, P.C.

ALTERED ON: 10/18/2024

AFFIXED ON: 09/29/2023

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
2	10/18/2024	NDC-0050: LEEDS ATHENS REROUTE	JR	BD
1	06/21/2024	NDC-0105: HDD TRANSITION AREA RECONCILIATION	JR	BD
0	09/29/2023	ISSUED FOR CONSTRUCTION SUBMISSION	TM/MK	NH

CHAMPLAIN HUDSON POWER EXPRESS

SEGMENT 10 (PACKAGE 6) - SELKIRK RAIL YARD BYPASS TO CATSKILL

EROSION AND SEDIMENT CONTROL PLAN
STA. 64065+00 TO STA. 64095+00

DRAWN BY: TH/AJ | DESIGNED BY: MK | APPROVED BY: NH | SCALE | DATE: 09/29/2023

PERMIT DRAWING NO.: **N/A**

DRAWING NO.: **C-437**

File: C:\USERS\JRAMIREZ\DC\ACCDOCS\VIEWIT\01480-CHPE_TRANS\PROJECT FILES\40 DESIGN ENG\01 CAD\P6\21162_6_C431-TO-C438.DWG Saved: 10/18/2024 1:26:44 PM Plotted: 10/18/2024 1:30:49 PM Current User: Jose Ramirez LastSavedBy: jramirez