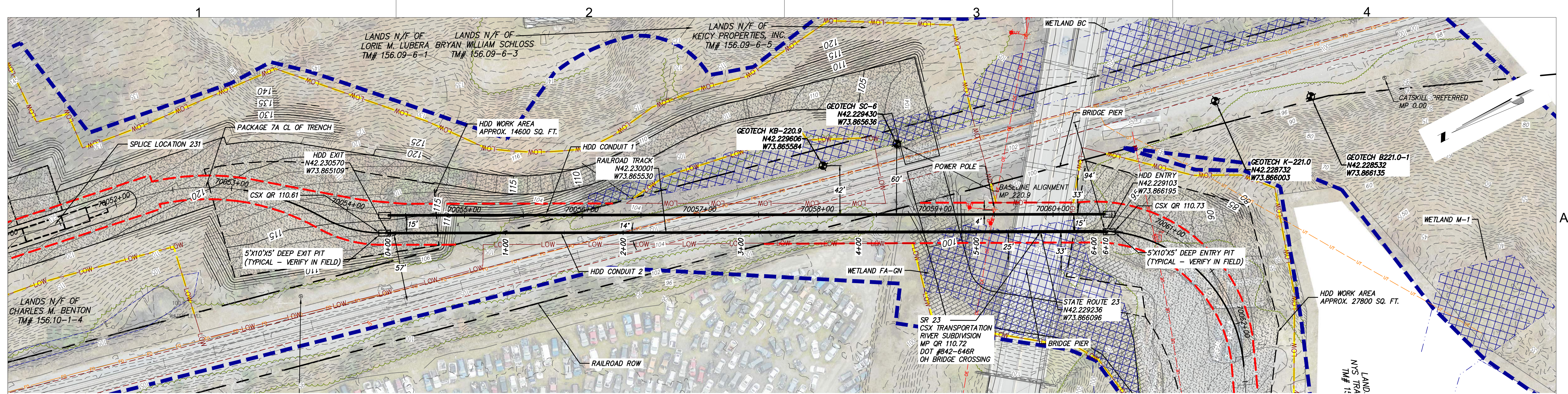


BORING LOG STRIP LEGEND	
Blow Counts per 6" = 10-10-10	Recovery %/RSD % = 95%/80%
30 strip logs shown (10x exaggeration)	30 strip logs have no exaggeration
Legend	
ASPHALT	Asphalt
Bedrock	Bedrock
Boulder	Boulder
CH	Fat CLAY
CH-MH	SILTY Fat CLAY
CL	Lean CLAY
CL-ML	SILTY CLAY
CONCRETE	Concrete
Fill	Fill
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-GM	SILT, CLAYEY SAND
SHALE	Shale
SILTSTONE	Siltstone
SM	SILTY SAND
SP	Poorly Graded SAND
SP-SC	Poorly Graded SAND with CLAY
SP-GM	Poorly Graded SAND with SILT
SW	Well graded SAND
SW-SC	Well Graded SAND with CLAY
SW-GM	Well Graded SAND with SILT
Topsoil	Topsoil
USGS 601	Gravel or Conglomerate 1
USGS 654	Subgravel
USGS 670	Interbedded Sandstone and Shale
USGS 702	Quartzite
USGS 705	Schist
USGS 705	Schist
USGS 708	Gneiss
USGS 708	Gneiss
USGS 718	Granite
Void	Void
Water	Water
Weathered Rock	Undefined
Water Table	Water Table during drilling
Delayed Water Table	Water Table after drilling

- 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): 610'
HDD DESIGNED PIPE LENGTH (S): 617'
 3. THE MINIMUM THREE JOINT (APPROX. 100 FT) COMBINED CURVE (VERTICAL + HORIZONTAL) RADIUS SHALL NOT BE LESS THAN 800 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/CONDUIT 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. DRILL CONTRACTOR SHALL UTILIZE BUOYANCY CONTROL MEASURES (INTERNAL WATER USED FOR BALLAST) DURING PULLBACK FOR ALL BUNDLED CASINGS.
- 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.



Champlain Hudson Power Express



Kiewit



TETRA TECH

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



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

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0	06/19/2023	ISSUED FOR CONSTRUCTION SUBMISSION	MRS	EJK
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 11 (PACKAGE 7A) - CSX: CATSKILL

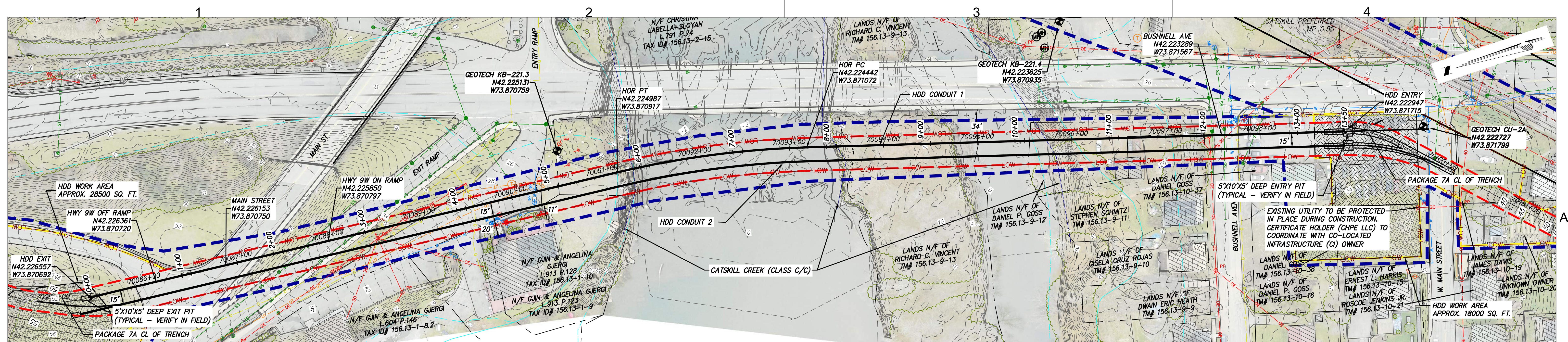
PLAN AND PROFILE - HDD 113
RAILROAD AND HWY 23 CROSSING - CONDUIT 2
GREENE COUNTY, NY

DRAWN BY: MRS	DESIGNED BY: AMC	APPROVED BY: EJK	SCALE	AS SHOWN	DATE	06/19/2023
			REV. NO.		SH. NO.	OF

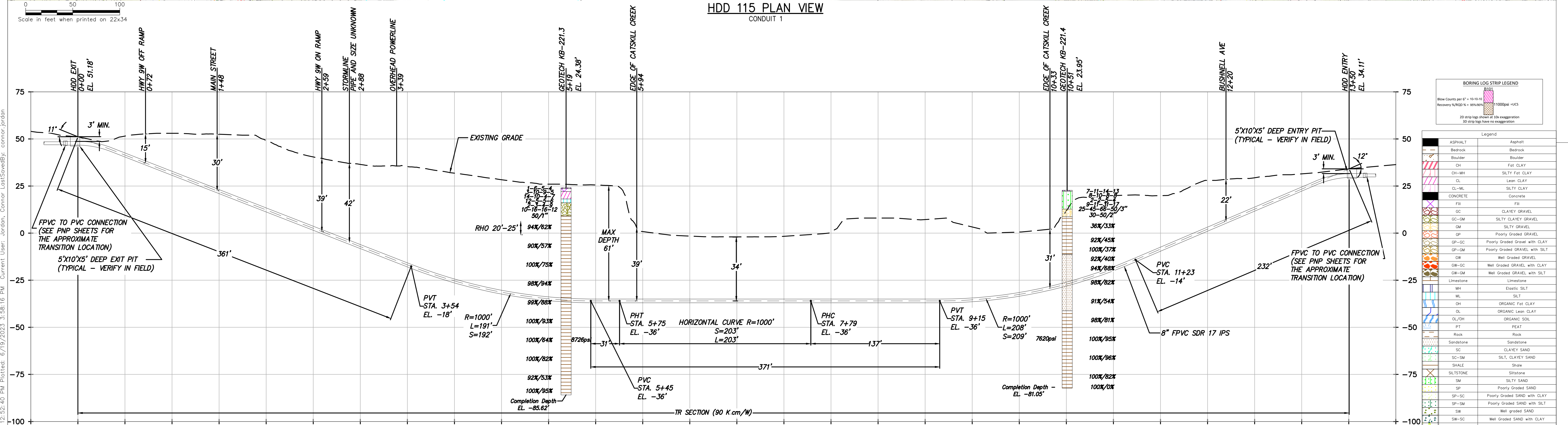
KIEWIT PROJECT NO.
21162

TT PROJECT NO.
204-3701

DRAWING NO.
C-313.2



HDD 115 PLAN VIEW
CONDUIT 1



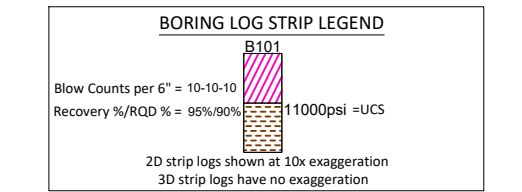
DESIGN AND CONSTRUCTION NOTES:

1. INSTALLATION METHOD: HORIZONTAL DIRECTIONAL DRILL.
2. 8.625" FPVC MIN. W.T. 0.510" SDR 17 IPS PIPE.
3.500" HDPE MIN. W.T. 0.389" DR 9 IPS PIPE.
HDD HORIZONTAL LENGTH (L): 1350'
HDD DESIGNED PIPE LENGTH (S): 1365'
3. THE MINIMUM THREE JOINT (APPROX. 100 FT) COMBINED CURVE (VERTICAL + HORIZONTAL) RADIUS SHALL NOT BE LESS THAN 800 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. DRILL CONTRACTOR SHALL UTILIZE BUOYANCY CONTROL MEASURES (INTERNAL WATER USED FOR BALLAST) DURING PULLBACK FOR ALL BUNDLED CASINGS.

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.

HDD 115 PROFILE VIEW
CONDUIT 1



Legend	
ASPHALT	Asphalt
BEDROCK	Bedrock
BOULDER	Boulder
FAT CLAY	Fat Clay
CH-MH	SILTY Fat CLAY
CL	Lean CLAY
CL-ML	SILTY CLAY
CONCRETE	Concrete
FFI	FFI
GC	CLAYEY GRAVEL
GC-GM	SILTY CLAYEY GRAVEL
GM	SILTY GRAVEL
GP	Poorly Graded GRAVEL
GP-GM	Poorly Graded GRAVEL with CLAY
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-GM	SILT, CLAYEY SAND
SHALE	Shale
SILTSTONE	Siltstone
SW	SILTY SAND
SW-GC	Poorly Graded SAND
SW-GM	Poorly Graded SAND with CLAY
SW-SM	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 702	Quartzite
USGS 705	Schist
USGS 705	Schist
USGS 708	Gneiss
USGS 708	Gneiss
USGS 718	Granite
USGS 718	Granite
Water	Water
Weathered Rock	Undefined
Water Table	Water Table during drilling
Delayed Water Table	Water Table after drilling



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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 11 (PACKAGE 7A) - CSX: CATSKILL

HDD 115
WATER BODY CROSSING - CONDUIT 1
GREENE COUNTY, NY

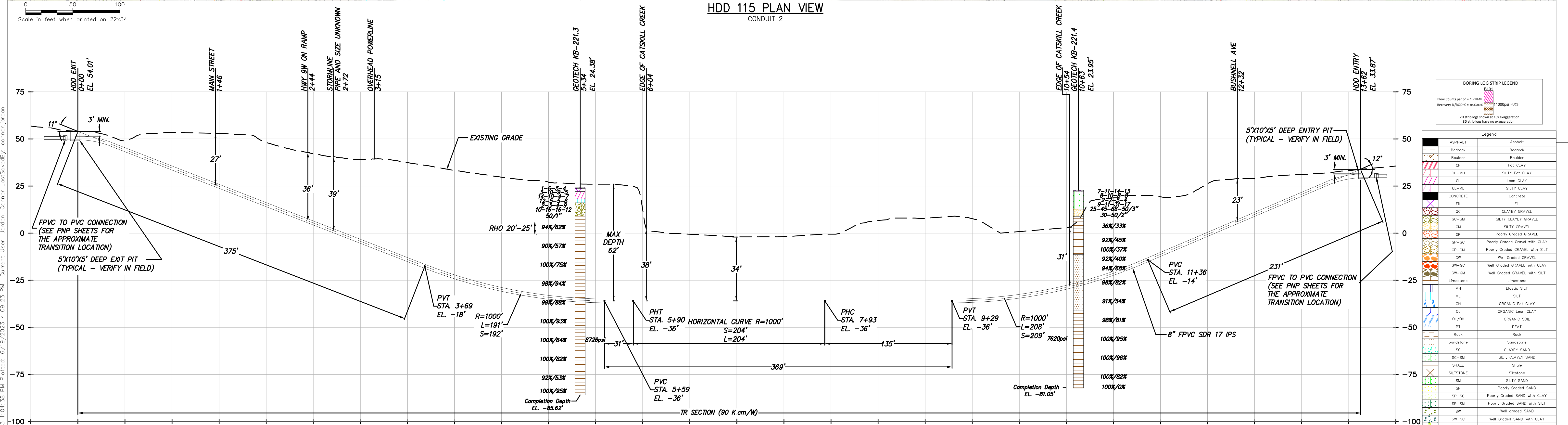
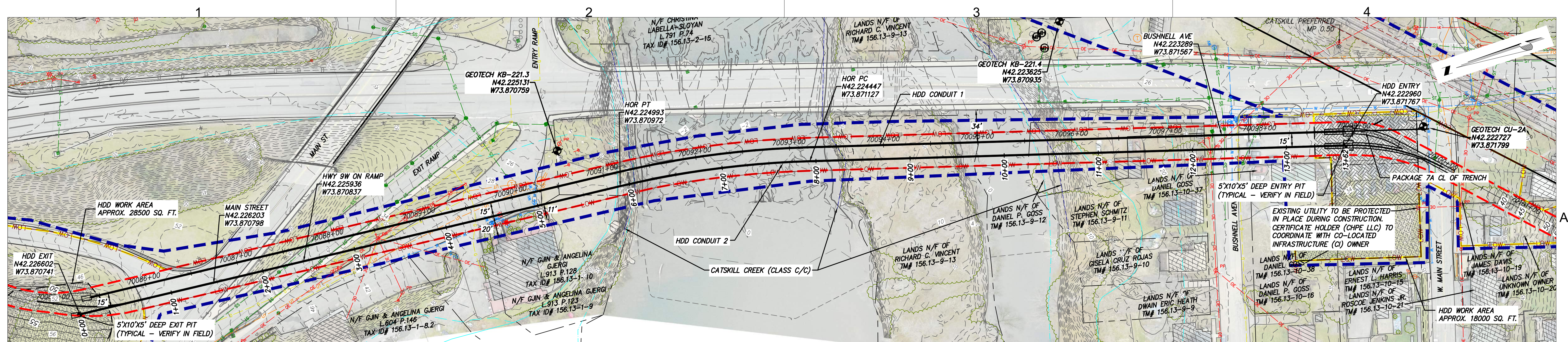
06/19/2023
ISSUED FOR CONSTRUCTION SUBMISSION
MRS EJK

06/19/2023
DESIGNED BY: AMC
APPROVED BY: EJK
SCALE AS SHOWN
REV. NO. 0

DATE OF
06/19/2023

KIEWIT PROJECT NO.
21162
TT PROJECT NO.
204-3701
DRAWING NO.
C-315

DATE OF
06/19/2023



DESIGN AND CONSTRUCTION NOTES:

1. INSTALLATION METHOD: HORIZONTAL DIRECTIONAL DRILL.
2. 8.625" FPVC MIN. W.T. 0.510" SDR 17 IPS PIPE.
3.500" HDPE MIN. W.T. 0.389" DR 9 IPS PIPE.
HDD HORIZONTAL LENGTH (L): 1362'
HDD DESIGNED PIPE LENGTH (S): 1377'
3. THE MINIMUM THREE JOINT (APPROX. 100 FT) COMBINED CURVE (VERTICAL + HORIZONTAL) RADIUS SHALL NOT BE LESS THAN 800 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/CONDUIT 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. DRILL CONTRACTOR SHALL UTILIZE BUOYANCY CONTROL MEASURES (INTERNAL WATER USED FOR BALLAST) DURING PULLBACK FOR ALL BUNDLED CASINGS.

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.



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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 11 (PACKAGE 7A) - CSX: CATSKILL

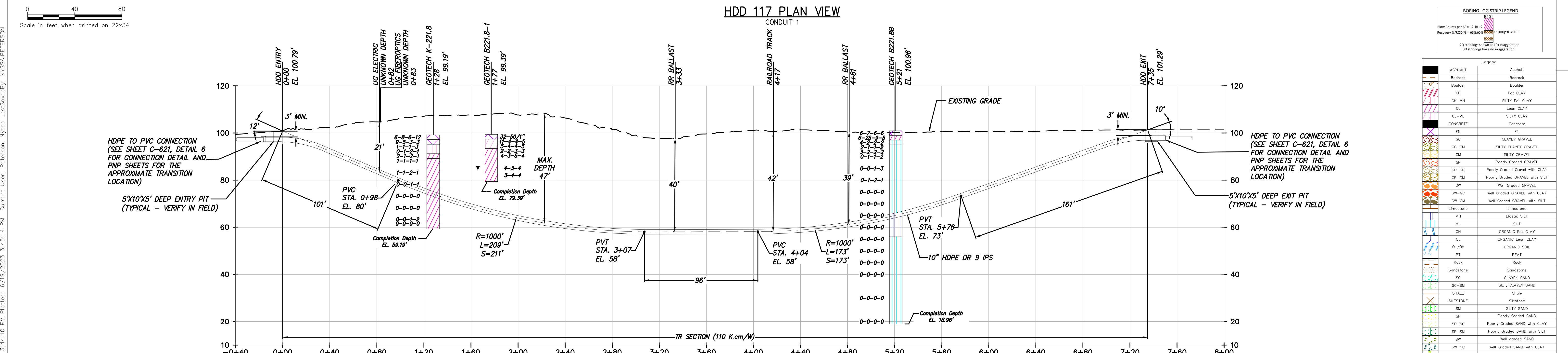
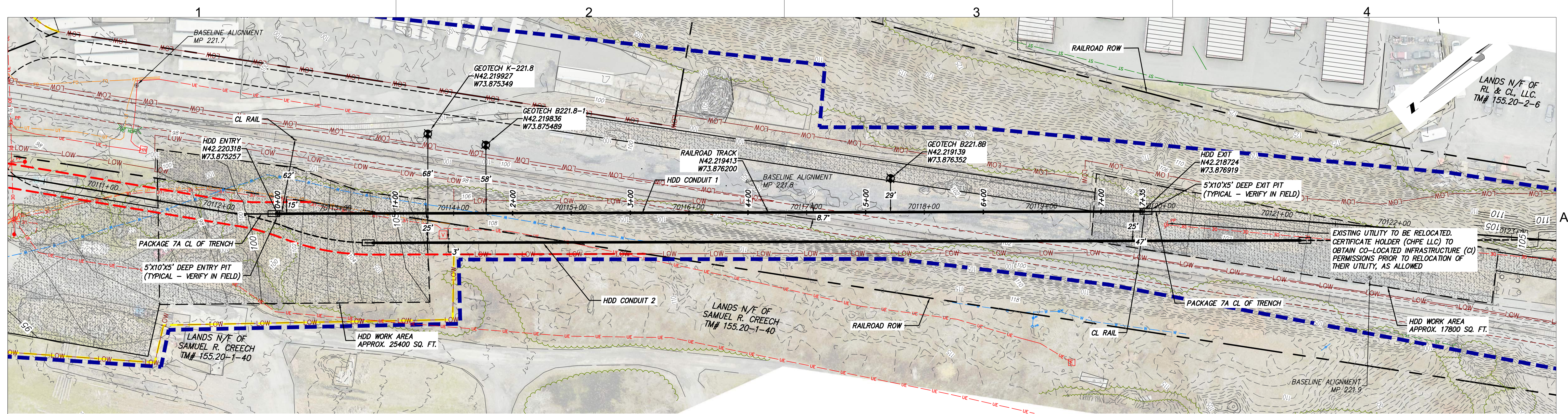
HDD 115
WATER BODY CROSSING - CONDUIT 2
GREENE COUNTY, NY

0	06/19/2023	ISSUED FOR CONSTRUCTION SUBMISSION	MRS	EJK
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP

DRAWN BY:	MRS	DESIGNED BY:	AMC	APPROVED BY:	EJK	SCALE	AS SHOWN	DATE	06/19/2023
						REV. NO.	0	SH.NO.	OF

KIEWIT PROJECT NO.
21162
TT PROJECT NO.
204-3701
DRAWING NO.
C-315.2

06/19/2023
OF



- DESIGN AND CONSTRUCTION NOTES:**
- INSTALLATION METHOD: HORIZONTAL DIRECTIONAL DRILL.
 - 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): 735'
 - HDD DESIGNED PIPE LENGTH (S): 742'
 - THE MINIMUM THREE JOINT (APPROX. 100 FT) COMBINED CURVE (VERTICAL + HORIZONTAL) RADIUS SHALL NOT BE LESS THAN 800 FT.
 - THE MINIMUM SEPARATION DISTANCE FROM EXISTING SUBSURFACE UTILITIES SHALL NOT BE LESS THAN 10 FT.
 - DRILL CONTRACTOR AND/OR GEOTECHNICAL ENGINEER TO DETERMINE LENGTH OF TEMPORARY SURFACE/CONDUCTOR CASING.
 - 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.
 - DRILL CONTRACTOR SHALL UTILIZE BUOYANCY CONTROL MEASURES (INTERNAL WATER USED FOR BALLAST) DURING PULLBACK FOR ALL BUNDLED CASINGS.
- GENERAL NOTES:**
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 - ALL COORDINATES ARE IN NEW YORK STATE PLANE, NAD83, EAST ZONE, US FOOT.

Champlain Hudson Power Express

Kiewit

TETRA TECH

STATE OF NEW YORK
EDWARD J. KELLY
LICENSED PROFESSIONAL ENGINEER
084981

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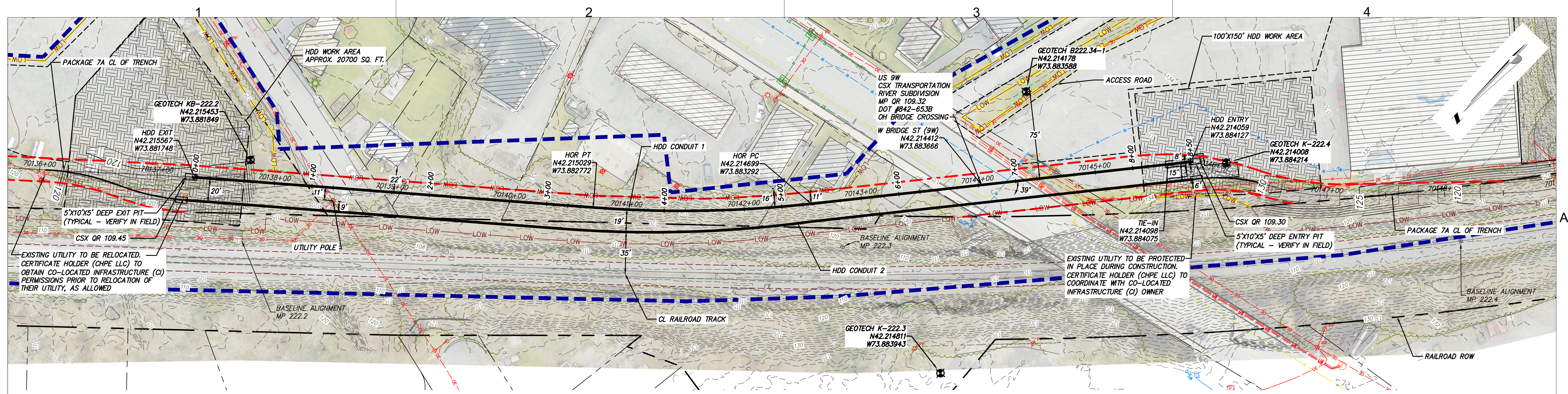
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
0	06/19/2023	ISSUED FOR CONSTRUCTION SUBMISSION	MRS	EJK

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 11 (PACKAGE 7A) - CSX: CATSKILL

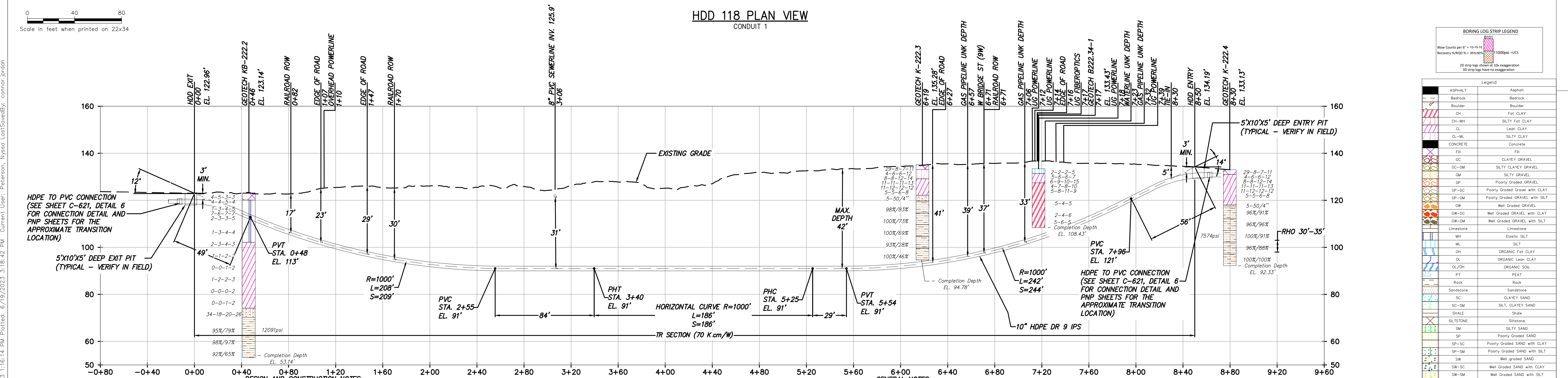
PLAN AND PROFILE - HDD 117
ROAD/CULVERT CROSSING - CONDUIT 1
GREENE COUNTY, NY

DRAWN BY: MRS DESIGNED BY: AMC APPROVED BY: EJK
SCALE AS SHOWN
REV. NO. 0 DATE 06/19/2023 OF

KIEWIT PROJECT NO. 21162
TT PROJECT NO. 204-3701
DRAWING NO. **C-317**



HDD 118 PLAN VIEW
CONDUIT 1



HDD 118 PROFILE VIEW
CONDUIT 1

DESIGN AND CONSTRUCTION NOTES:

- INSTALLATION METHOD: HORIZONTAL DIRECTIONAL DRILL.
- 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): 850'
HDD DESIGNED PIPE LENGTH (S): 857'
- THE MINIMUM THREE JOINT (APPROX. 100 FT) COMBINED CURVE (VERTICAL + HORIZONTAL) RADIUS SHALL NOT BE LESS THAN 800 FT.
- THE MINIMUM SEPARATION DISTANCE FROM EXISTING SUBSURFACE UTILITIES SHALL NOT BE LESS THAN 10 FT.
- DRILL CONTRACTOR AND/OR GEOTECHNICAL ENGINEER TO DETERMINE LENGTH OF TEMPORARY SURFACE/CONDUCTOR CASING.
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- DRILL CONTRACTOR SHALL UTILIZE BUOYANCY CONTROL MEASURES (INTERNAL WATER USED FOR BALLAST) DURING PULLBACK FOR ALL BUNDLED CASINGS.

GENERAL NOTES:

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Champlain Hudson Power Express

Kiewit

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(A NEW YORK PROFESSIONAL CORPORATION)

STATE OF NEW YORK
EDWARD J. KELLY
LICENSED PROFESSIONAL ENGINEER
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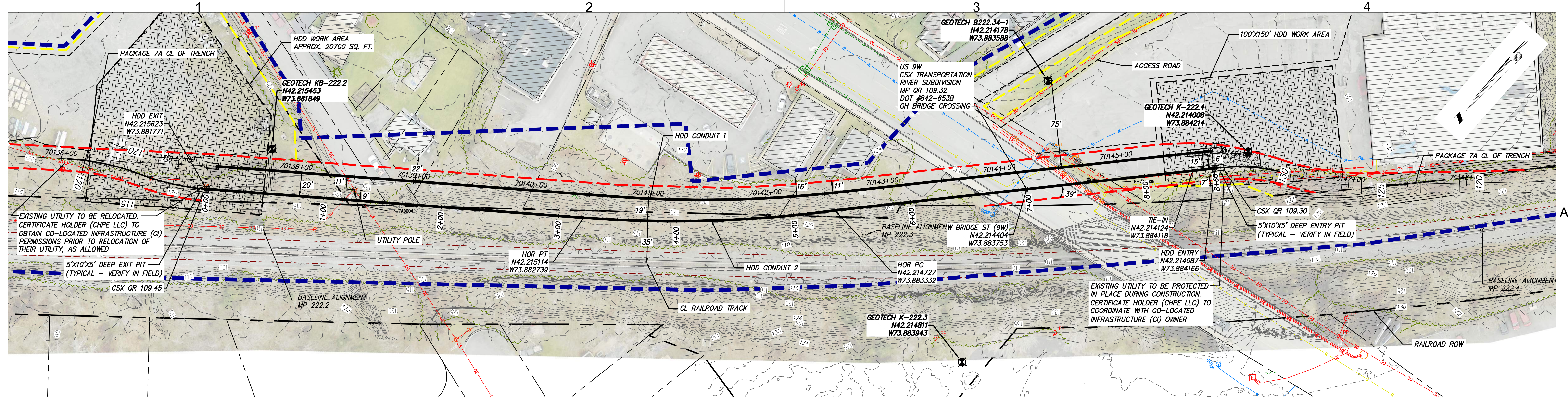
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
0	06/19/2023	ISSUED FOR CONSTRUCTION SUBMISSION	MRS	EJK

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 11 (PACKAGE 7A) - CSX: CATSKILL

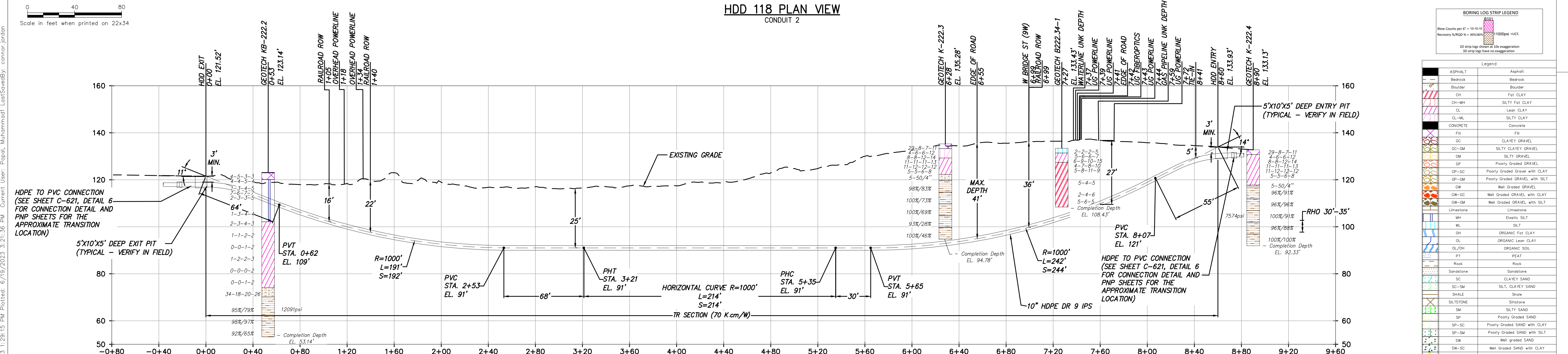
PLAN AND PROFILE - HDD 118
ROAD CROSSING - CONDUIT 1
GREENE COUNTY, NY

DRAWN BY: MRS DESIGNED BY: AMC APPROVED BY: EJK
SCALE AS SHOWN
REV. NO. 0 DATE 06/19/2023 OF

KIEWIT PROJECT NO. 21162
TT PROJECT NO. 204-3701
DRAWING NO. C-318



HDD 118 PLAN VIEW
CONDUIT 2



HDD 118 PROFILE VIEW
CONDUIT 2

- DESIGN AND CONSTRUCTION NOTES:**
- INSTALLATION METHOD: HORIZONTAL DIRECTIONAL DRILL.
 - 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): 860'
HDD DESIGNED PIPE LENGTH (S): 866'
 - THE MINIMUM THREE JOINT (APPROX. 100 FT) COMBINED CURVE (VERTICAL + HORIZONTAL) RADIUS SHALL NOT BE LESS THAN 800 FT.
 - THE MINIMUM SEPARATION DISTANCE FROM EXISTING SUBSURFACE UTILITIES SHALL NOT BE LESS THAN 10 FT.
 - DRILL CONTRACTOR AND/OR GEOTECHNICAL ENGINEER TO DETERMINE LENGTH OF TEMPORARY SURFACE/CONDUCTOR CASING.
 - 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.
 - DRILL CONTRACTOR SHALL UTILIZE BUOYANCY CONTROL MEASURES (INTERNAL WATER USED FOR BALLAST) DURING PULLBACK FOR ALL BUNDLED CASINGS.
- GENERAL NOTES:**
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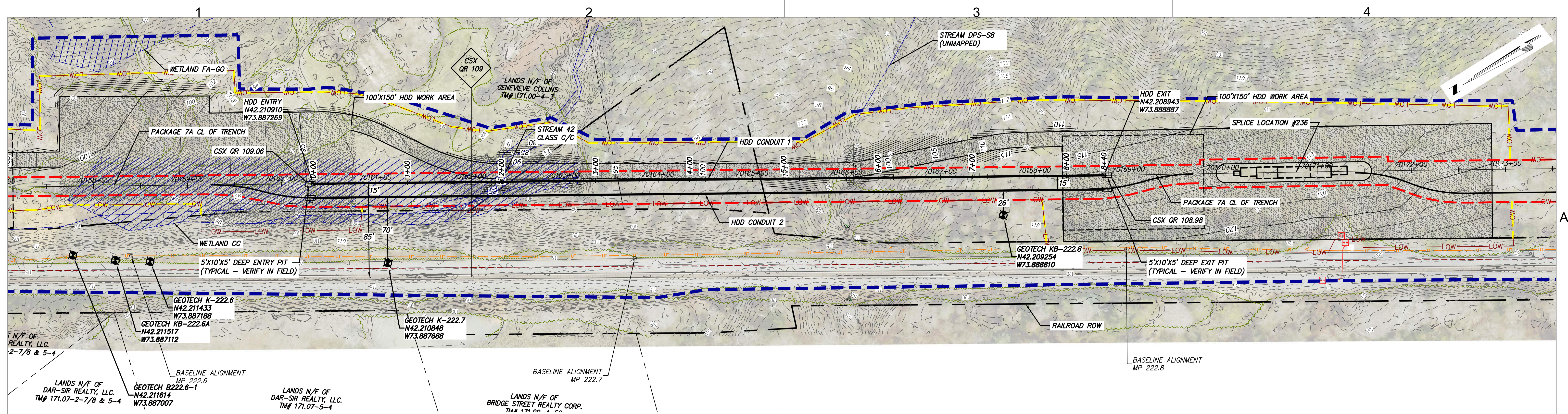
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
0	06/19/2023	ISSUED FOR CONSTRUCTION SUBMISSION	MRS	EJK

DRAWN BY:	DESIGNED BY:	APPROVED BY:	SCALE	AS SHOWN	DATE
MRS	AMC	EJK	REV. NO.	0	06/19/2023

**CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 11 (PACKAGE 7A) - CSX: CATSKILL**

**PLAN AND PROFILE - HDD 118
ROAD CROSSING - CONDUIT 2
GREENE COUNTY, NY**

**KIEWIT PROJECT NO.
21162
TT PROJECT NO.
204-3701
DRAWING NO.
C-318.2**



BORING LOG STRIP LEGEND	
Blow Counts per 6" = 10-15-10	Recovery %/RQD % = 95%/80%
3D strip logs show a 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
FI	FI
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-GM	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	Subgravel
USGS 670	Interbedded Sandstone and Shale
USGS 702	Quartzite
USGS 705	Schist
USGS 705	Schist
USGS 708	Gneiss
USGS 708	Gneiss
USGS 718	Granite
Void	Void
Water	Water
Weathered Rock	Undefined
Water Table	Water Table during drilling
Delayed Water Table	Water Table after drilling

- DESIGN AND CONSTRUCTION NOTES:**

 1. INSTALLATION METHOD: HORIZONTAL DIRECTIONAL DRILL.
 2. 8.625" FPVC MIN. W.T. 0.510" SDR 17 IPS PIPE.
 3. 3.500" HDPE MIN. W.T. 0.389" DR 9 IPS PIPE.
 4. HDD HORIZONTAL LENGTH (L): 840'
 5. HDD DESIGNED PIPE LENGTH (S): 851'
 6. THE MINIMUM THREE JOINT (APPROX. 100 FT) COMBINED CURVE (VERTICAL + HORIZONTAL) RADIUS SHALL NOT BE LESS THAN 800 FT.
 7. THE MINIMUM SEPARATION DISTANCE FROM EXISTING SUBSURFACE UTILITIES SHALL NOT BE LESS THAN 10 FT.
 8. DRILL CONTRACTOR AND/OR GEOTECHNICAL ENGINEER TO DETERMINE LENGTH OF TEMPORARY SURFACE/CONDUIT CASING.
 9. 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.
 10. DRILL CONTRACTOR SHALL UTILIZE BUOYANCY CONTROL MEASURES (INTERNAL WATER USED FOR BALLAST) DURING PULLBACK FOR ALL BUNDLED CASINGS.
- 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.



CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 11 (PACKAGE 7A) - CSX: CATSKILL

PLAN AND PROFILE - HDD 119
WETLAND CROSSING - CONDUIT 1
GREENE COUNTY, NY

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 11 (PACKAGE 7A) - CSX: CATSKILL

PLAN AND PROFILE - HDD 119
WETLAND CROSSING - CONDUIT 1
GREENE COUNTY, NY

KIEWIT PROJECT NO. 21162
TT PROJECT NO. 204-3701
DRAWING NO. C-319

DATE 06/19/2023
OF

0	06/19/2023	ISSUED FOR CONSTRUCTION SUBMISSION	MRS	EJK
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP

DRAWN BY: MRS

DESIGNED BY: AMC

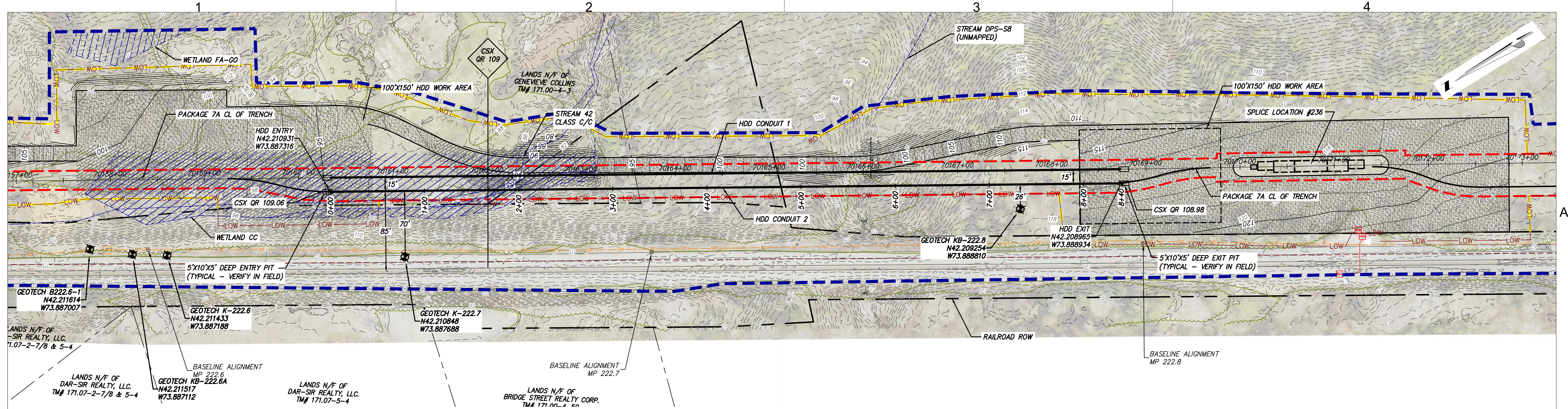
APPROVED BY: EJK

SCALE

AS SHOWN

DATE

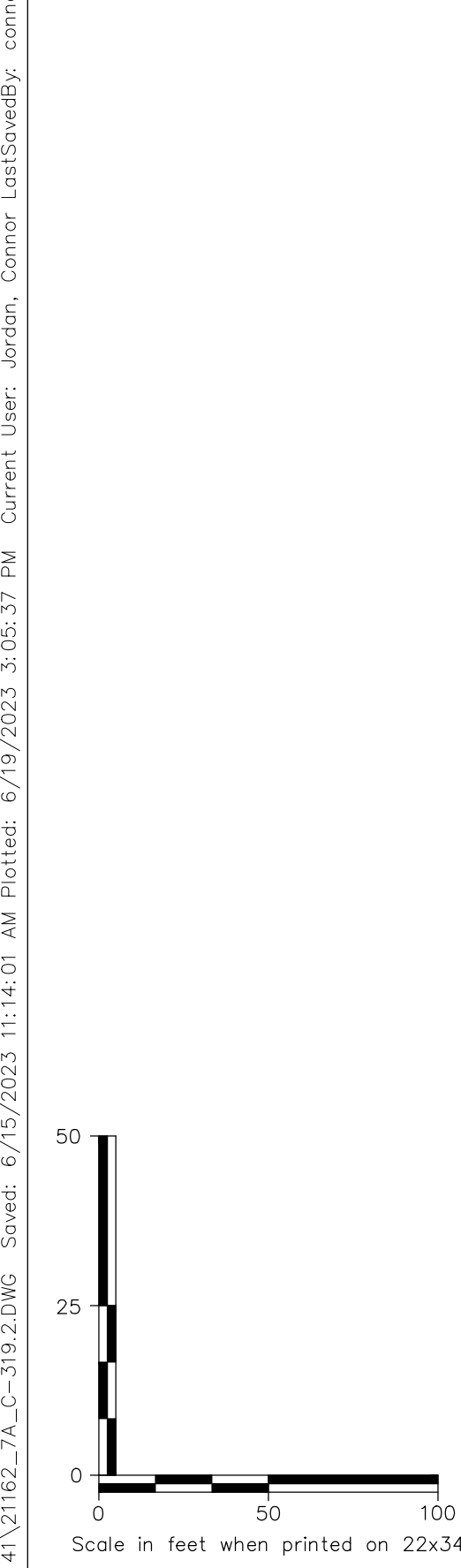
06/19/2023



HDD 119 PLAN VIEW
CONDUIT 2

Scale in feet when printed on 22x34

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HDD 119 PROFILE VIEW
CONDUIT 2

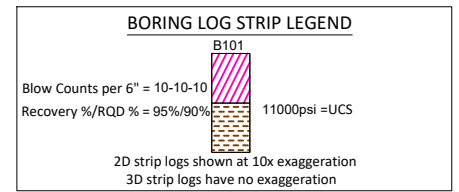
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Legend	
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	SILTY Fat CLAY
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	Concrete
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	Poorly Graded GRAVEL with CLAY
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	Well Graded GRAVEL with CLAY
	Well Graded GRAVEL with SILT
	Limestone
	Elastic SILT
	SILT
	ORGANIC Fat CLAY
	ORGANIC Lean CLAY
	ORGANIC SOIL
	PEAT
	Rock
	Sandstone
	CLAYEY SAND
	SILT, CLAYEY SAND
	Shale
	Siltstone
	SILTY SAND
	Poorly Graded SAND
	Poorly Graded SAND with CLAY
	Poorly Graded SAND with SILT
	Well graded SAND
	Well Graded SAND with CLAY
	Well Graded SAND with SILT
	Topsoil
	Gravel or Conglomerate 1
	Subgravel
	Interbedded Sandstone and Shale
	Quartzite
	Schist
	Schist
	Gneiss
	Gneiss
	Granite
	Void
	Water
	Undefined
	Water Table during drilling
	Water Table after drilling



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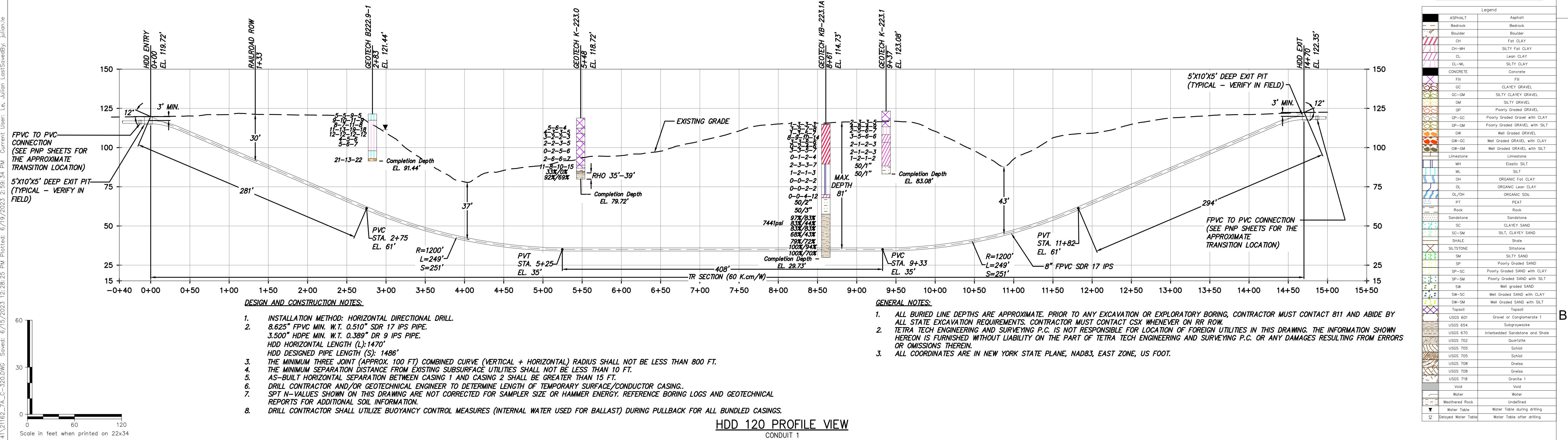
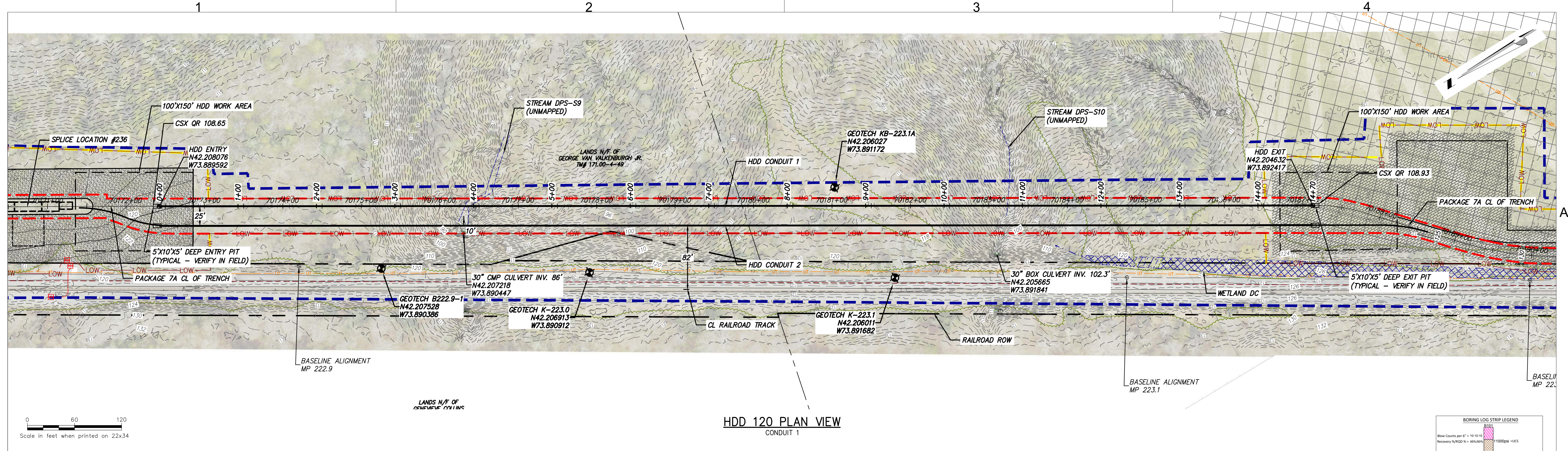
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE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

0	06/19/2023	ISSUED FOR CONSTRUCTION SUBMISSION	MRS	EJK
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 11 (PACKAGE 7A) - CSX: CATSKILL
PLAN AND PROFILE - HDD 119.2
WETLAND CROSSING - CONDUIT 2
GREENE COUNTY, NY

KIEWIT PROJECT NO.	21162
TT PROJECT NO.	204-3701
DRAWING NO.	C-319.2
DATE	06/19/2023
SH.NO.	OF

DRAWN BY:	MRS	DESIGNED BY:	AMC	APPROVED BY:	EJK	SCALE	AS SHOWN	DATE	06/19/2023
REV.	NO.	REV.	NO.	REV.	NO.	REV.	NO.	REV.	NO.



CHPE
Champlain Hudson
Power Express

Kiewit

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

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

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**CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 11 (PACKAGE 7A) - CSX: CATSKILL**

**PLAN AND PROFILE - HDD 120
RAILROAD CULVERT CROSSING - CONDUIT 1
GREENE COUNTY, NY**

DRAWN BY: MRS	DESIGNED BY: AMC	APPROVED BY: EJK	SCALE REV. NO.	AS SHOWN	DATE SH. NO.
					06/19/2023 OF

KIEWIT PROJECT NO.
21162
TT PROJECT NO.
204-3701
DRAWING NO.
C-320