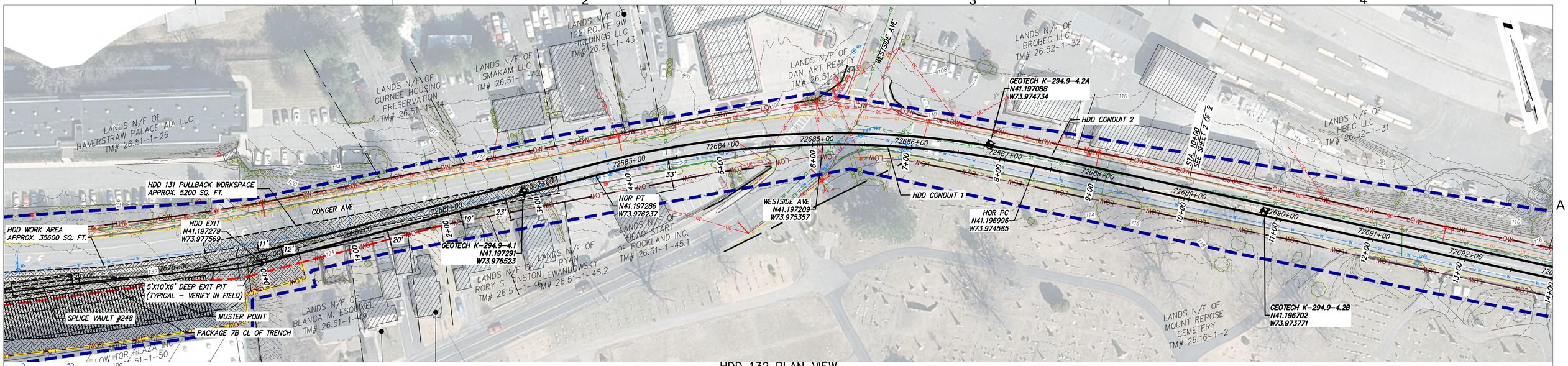
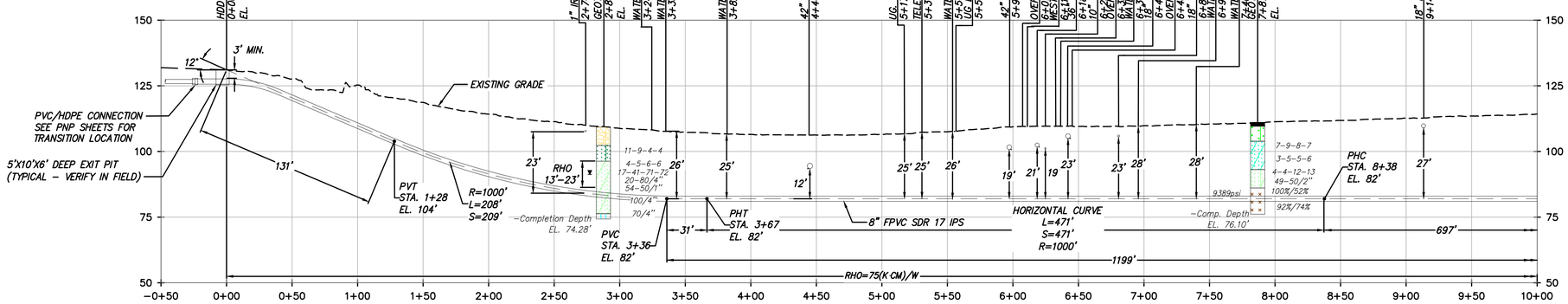


HDD 132 PLAN VIEW

CONDUIT 1



HDD 132 PROFILE 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):1808'
   HDD DESIGNED PIPE LENGTH (S): 1815'
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. AS-BUILT HORIZONTAL SEPARATION BETWEEN CASING 1 AND CASING 2 SHALL BE GREATER THAN 5 FT.
6. PILOT HOLE HORIZONTAL ALIGNMENT SHALL REMAIN WITHIN 3 FT LEFT OR RIGHT OF THE DESIGNED HDD ALIGNMENT.
7. DRILL CONTRACTOR AND GEOTECHNICAL ENGINEER TO DETERMINE LENGTH OF TEMPORARY SURFACE/CONDUCTOR CASING.
8. 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.
9. 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.
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.

BORING LOG STRIP LEGEND

B101

Blow Counts per 6" = 10-10-10 — 11000psi =UCS

Recovery % /RQD % = 95%/50%

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

Kiewit

TETRA TECH

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

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.

ISSUED FOR PERMITTING

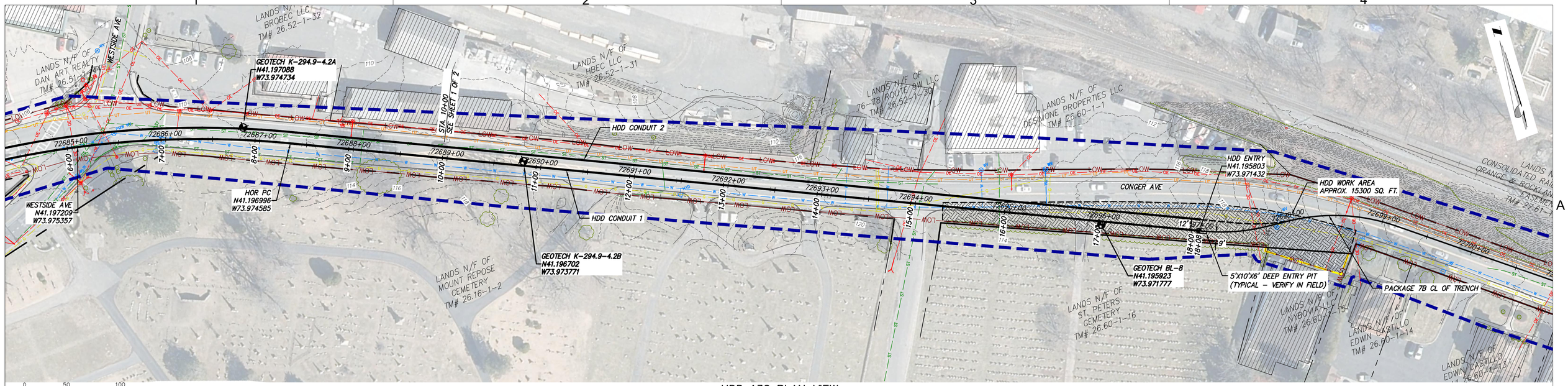
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
D	04/14/2023	FINAL SUBMISSION	MRS	EJK
C	03/01/2023	DRAFT FINAL REV 1 SUBMISSION	MRS	EJK
B	11/16/2022	DRAFT FINAL SUBMISSION	MRS	EJK
A	05/20/2022	60% DESIGN SUBMISSION	MRS	EJK

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W: ROCKLAND
PLAN AND PROFILE - HDD 132 PAGE 1 OF 2
WESTSIDE AVENUE CROSSING - CONDUIT 1
ROCKLAND COUNTY, NY

KIEWIT PROJECT NO. 21162
TT PROJECT NO. 204-3701
DRAWING NO. **C-332**

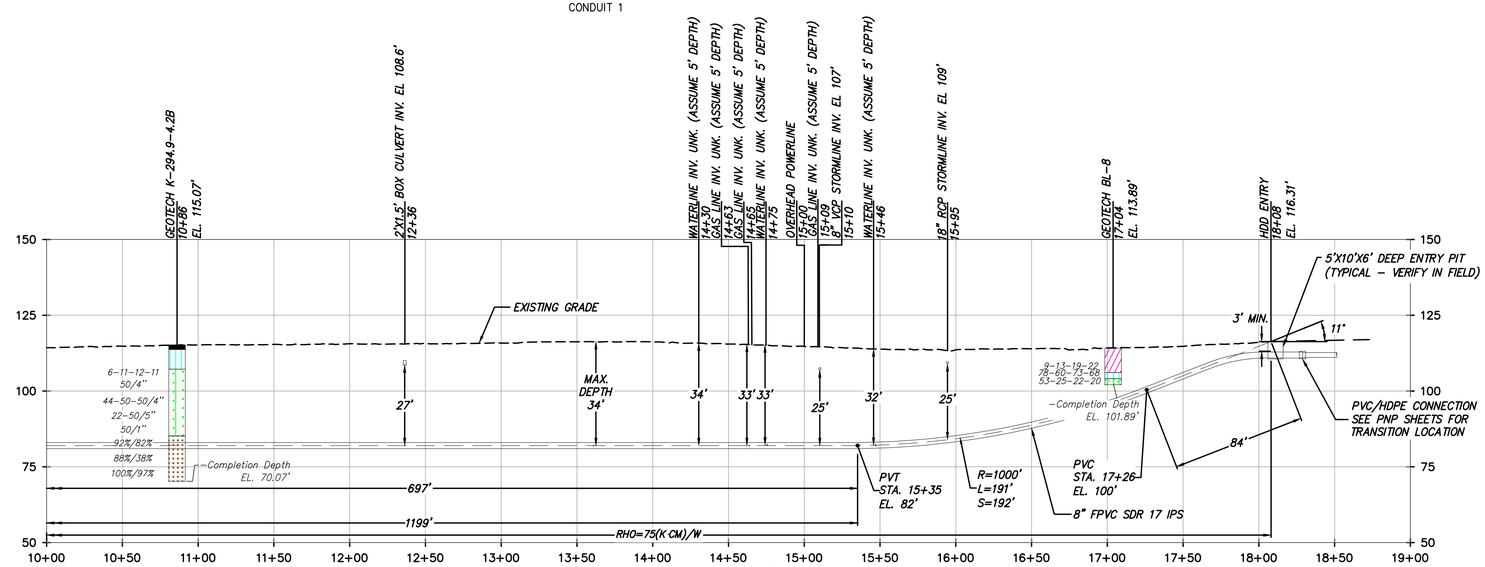
DRAWN BY: MRS | DESIGNED BY: AMC | APPROVED BY: EJK | SCALE AS SHOWN | REV. NO. D | DATE 04/14/2023 | SH.NO. | OF

File: C:\PWWORKING\PEI\DMS51141\21162_7B_C-332.DWG Saved: 4/12/2023 9:17:39 AM Plotted: 4/12/2023 4:38:00 PM Current User: Seidel, Michael LastSavedBy: MICHAEL.SEIDEL



HDD 132 PLAN VIEW

CONDUIT 1



HDD 132 PROFILE VIEW

CONDUIT 1

BORING LOG STRIP LEGEND

B101

Blow Counts per 6" = 10-10-10

Recovery % /RQD % = 95%/50%

1000psi =UCS

2D strip logs shown at 5Dx 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 675	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

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):1808'
   HDD DESIGNED PIPE LENGTH (S): 1815'
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. AS-BUILT HORIZONTAL SEPARATION BETWEEN CASING 1 AND CASING 2 SHALL BE GREATER THAN 5 FT.
6. PILOT HOLE HORIZONTAL ALIGNMENT SHALL REMAIN WITHIN 3 FT LEFT OR RIGHT OF THE DESIGNED HDD ALIGNMENT.
7. DRILL CONTRACTOR AND GEOTECHNICAL ENGINEER TO DETERMINE LENGTH OF TEMPORARY SURFACE/CONDUCTOR CASING.
8. 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.
9. 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.
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.

CHPE Champlain Hudson Power Express

Kiewit

TETRA TECH

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

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.

ISSUED FOR PERMITTING

No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
D	04/14/2023	FINAL SUBMISSION	MRS	EJK
C	03/01/2023	DRAFT FINAL REV 1 SUBMISSION	MRS	EJK
B	11/16/2022	DRAFT FINAL SUBMISSION	MRS	EJK
A	05/20/2022	60% DESIGN SUBMISSION	MRS	EJK

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W: ROCKLAND
PLAN AND PROFILE - HDD 132 PAGE 2 OF 2
WESTSIDE AVENUE CROSSING - CONDUIT 1
ROCKLAND COUNTY, NY

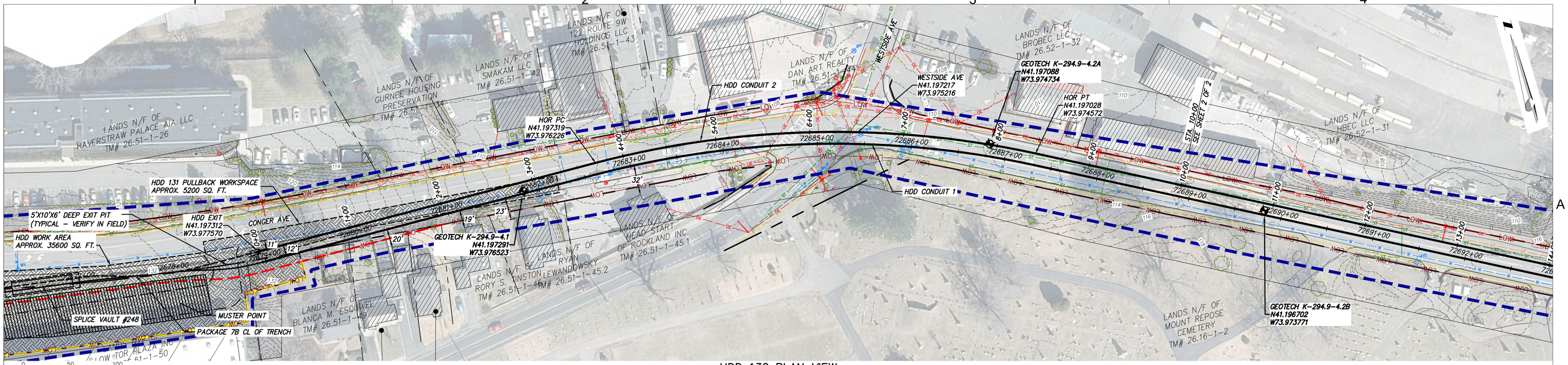
KIEWIT PROJECT NO. 21162

TT PROJECT NO. 204-3701

DRAWING NO. **C-332**

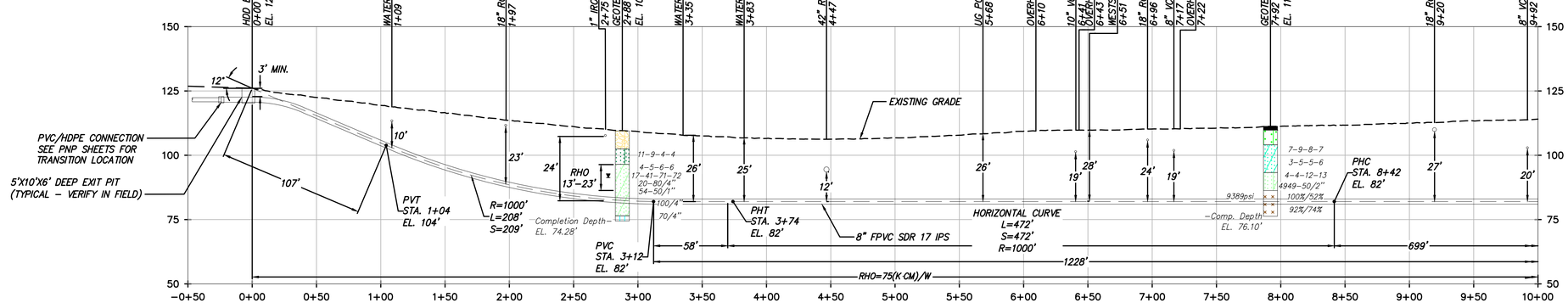
DRAWN BY: MRS | DESIGNED BY: AMC | APPROVED BY: EJK | SCALE AS SHOWN | REV. NO. D | DATE 04/14/2023 | SH.NO. OF

File: C:\PWWORKING\PEI\DMS51141\21162_7B_C-332.DWG Saved: 4/12/2023 9:17:39 AM Plotted: 4/12/2023 4:38:51 PM Current User: Seidel, Michael LastSavedBy: MICHAEL SEIDEL



HDD 132 PLAN VIEW

CONDUIT 2



DESIGN AND CONSTRUCTION NOTES:

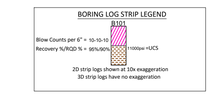
1. INSTALLATION METHOD: HORIZONTAL DIRECTIONAL DRILL.
2. 8.625" FPVC MIN. W.T. 0.510" SDR 17 IPS PIPE.
   3.500" HDPE MIN. W.T. 0.389" DR 9 IPS PIPE.
   HDD HORIZONTAL LENGTH (L):1815'
   HDD DESIGNED PIPE LENGTH (S): 1822'
3. THE MINIMUM THREE JOINT (APPROX. 100 FT) COMBINED CURVE (VERTICAL + HORIZONTAL) 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. AS-BUILT HORIZONTAL SEPARATION BETWEEN CASING 1 AND CASING 2 SHALL BE GREATER THAN 5 FT.
6. PILOT HOLE HORIZONTAL ALIGNMENT SHALL REMAIN WITHIN 3 FT LEFT OR RIGHT OF THE DESIGNED HDD ALIGNMENT.
7. DRILL CONTRACTOR AND GEOTECHNICAL ENGINEER TO DETERMINE LENGTH OF TEMPORARY SURFACE/CONDUCTOR CASING.
8. 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.
9. DRILL CONTRACTOR SHALL UTILIZE BUOYANCY CONTROL MEASURES (INTERNAL WATER USED FOR BALLAST) DURING PULLBACK FOR ALL BUNDLED CASINGS.

HDD 132 PROFILE VIEW

CONDUIT 2

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.



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

50 25 0
0 50 100
Scale in feet when printed on 22x34

CHPE Champlain Hudson Power Express

Kiewit

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

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.

ISSUED FOR PERMITTING

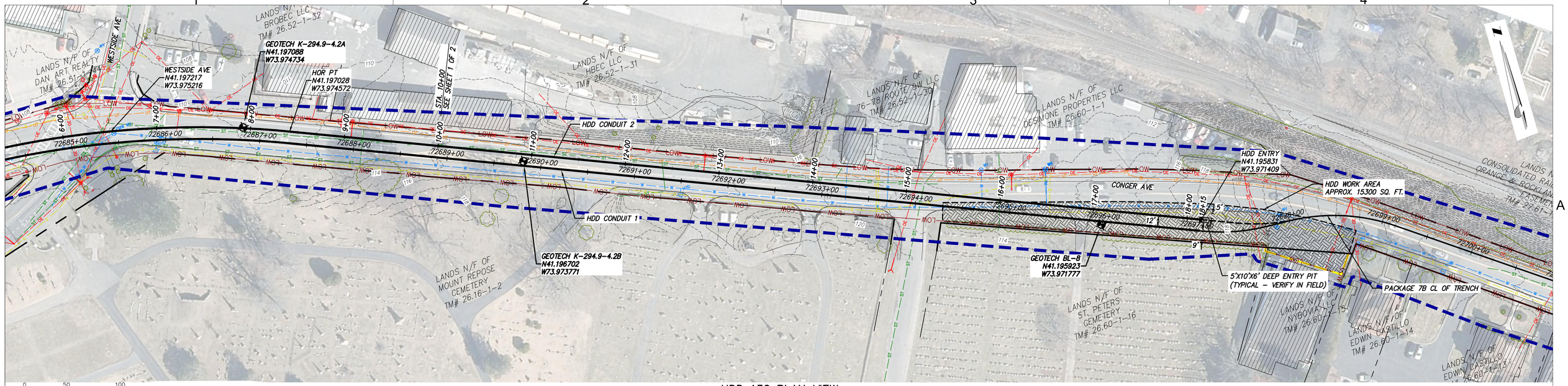
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
D	04/14/2023	FINAL SUBMISSION	MRS	EJK
C	03/01/2023	DRAFT FINAL REV 1 SUBMISSION	MRS	EJK
B	11/16/2022	DRAFT FINAL SUBMISSION	MRS	EJK
A	05/20/2022	60% DESIGN SUBMISSION	MRS	EJK

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W: ROCKLAND
PLAN AND PROFILE - HDD 132 PAGE 1 OF 2
WESTSIDE AVENUE CROSSING - CONDUIT 2
ROCKLAND COUNTY, NY

KIEWIT PROJECT NO. 21162
TT PROJECT NO. 204-3701
DRAWING NO. **C-332.2**

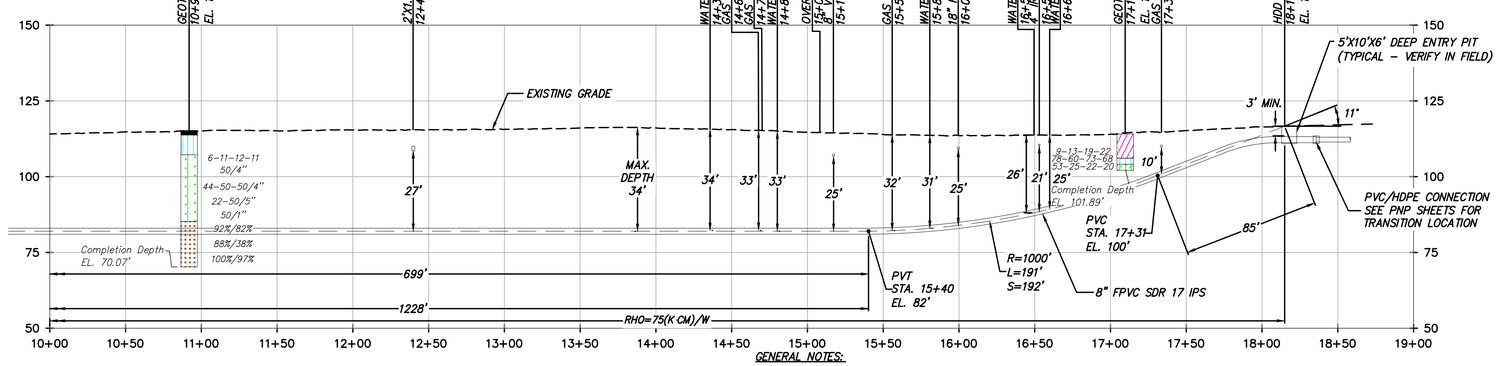
DRAWN BY: MRS | DESIGNED BY: AMC | APPROVED BY: EJK | SCALE AS SHOWN | REV. NO. D | DATE 04/14/2023 | SH.NO. | OF

File: C:\PWWORKING\PEI\DMS11141\21162_7B_C-332.2.DWG Saved: 4/12/2023 9:20:00 AM Plotted: 4/12/2023 4:41:12 PM Current User: Seidel, Michael LastSavedBy: MICHAEL.SEIDEL



HDD 132 PLAN VIEW

CONDUIT 2



HDD 132 PROFILE VIEW

CONDUIT 2

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): 1815'
   HDD DESIGNED PIPE LENGTH (S): 1822'
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. AS-BUILT HORIZONTAL SEPARATION BETWEEN CASING 1 AND CASING 2 SHALL BE GREATER THAN 5 FT.
6. PILOT HOLE HORIZONTAL ALIGNMENT SHALL REMAIN WITHIN 3 FT LEFT OR RIGHT OF THE DESIGNED HDD ALIGNMENT.
7. DRILL CONTRACTOR AND GEOTECHNICAL ENGINEER TO DETERMINE LENGTH OF TEMPORARY SURFACE/CONDUCTOR CASING.
8. 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.
9. 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.
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.

BORING LOG STRIP LEGEND

B101

Blow Counts per 6" = 10-10-10 — 1000psi =UCS

Recovery % /RQD % = 95%/50%

2D strip logs shown at 50x 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

Kiewit

TETRA TECH

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

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.

ISSUED FOR PERMITTING

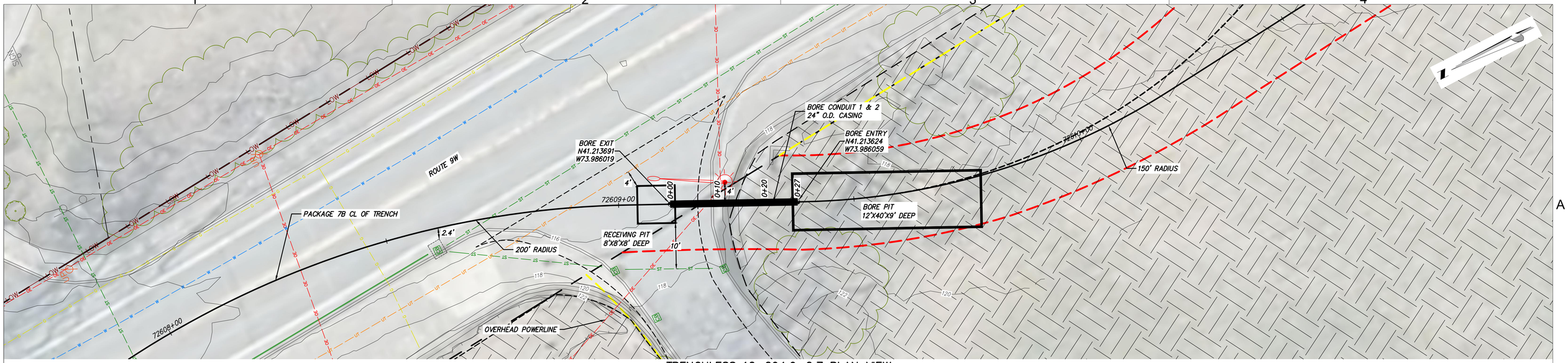
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
D	04/14/2023	FINAL SUBMISSION	MRS	EJK
C	03/01/2023	DRAFT FINAL REV 1 SUBMISSION	MRS	EJK
B	11/16/2022	DRAFT FINAL SUBMISSION	MRS	EJK
A	05/20/2022	60% DESIGN SUBMISSION	MRS	EJK

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W: ROCKLAND
PLAN AND PROFILE - HDD 132 PAGE 2 OF 2
WESTSIDE AVENUE CROSSING - CONDUIT 2
ROCKLAND COUNTY, NY

DRAWN BY: MRS | DESIGNED BY: AMC | APPROVED BY: EJK | SCALE AS SHOWN | REV. NO. D

KIEWIT PROJECT NO. 21162
TT PROJECT NO. 204-3701
DRAWING NO. **C-332.2**
DATE 04/14/2023
SH.NO. OF

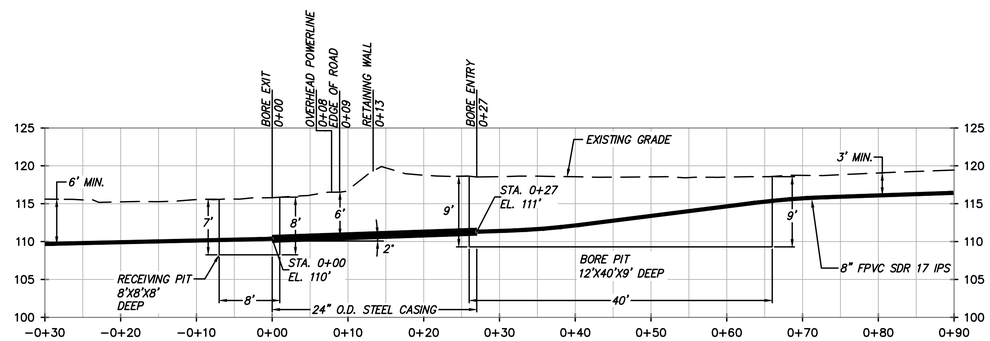
File: C:\PWWORKING\REN\DMS51141\21162_7B_C-332.2.DWG Saved: 4/12/2023 9:20:00 AM Plotted: 4/12/2023 4:40:16 PM Current User: Seidel, Michael LastSavedBy: MICHAEL.SEIDEL



0 10 20
Scale in feet when printed on 22x34

TRENCHLESS 12–294.9–2.7 PLAN VIEW

CONDUIT 1 & 2



DESIGN AND CONSTRUCTION:

1. INSTALLATION METHOD: AUGER BORE.
2. 8.625" PVC MIN. W.T. 0.322" SCH 40 IPS PIPE.
   3.500" HDPE MIN. W.T. 0.389" DR 9 IPS PIPE.
   INSTALLED IN WELDED STEEL CASING (24" O.D. 0.375" WT. GRADE B)
   BORE HORIZONTAL LENGTH: 27'
   BORE DESIGNED PIPE LENGTH: 27'
3. OVER–CUT BY THE CUTTING HEAD SHALL NOT EXCEED THE OUTSIDE DIAMETER OF THE CASING BY MORE THAN 1/2 INCH.
4. ANNULAR SPACE BETWEEN THE CASING AND BORE HOLE SHALL BE GROUTED IF VOIDS SHOULD DEVELOP OR IF THE BORED HOLE DIAMETER IS GREATER THAN THE CASING OUTSIDE DIAMETER BY MORE THAN 1 INCH.
5. STEEL CASING WILL BE FILLED WITH GROUT PER PROJECT SPECIFICATIONS.
6. CASING ENDS SHALL BE SEALED BEFORE BEING BACKFILLED, USING APPROVED CASING END SEALS.
7. THE MINIMUM SEPARATION DISTANCE FROM EXISTING SUBSURFACE UTILITIES SHALL NOT BE LESS THAN 2 FT.
8. NO GEOTECHNICAL DATA OR REPORTS WERE AVAILABLE AT THE TIME OF DESIGN. NO OTHER GEOTECHNICAL INFORMATION WAS REFERENCED IN THE PREPARATION OF THIS DESIGN.

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.

20 10 0
0 10 20
Scale in feet when printed on 22x34

TRENCHLESS 12–294.9–2.7 PROFILE VIEW

CONDUIT 1 & 2

CHPE Champlain Hudson Power Express

Kiewit

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

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.

ISSUED FOR PERMITTING

No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
B	04/14/2023	FINAL SUBMISSION	MRS	EJK
A	03/01/2023	DRAFT FINAL REV 1 SUBMISSION	MRS	EJK

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W: ROCKLAND
PLAN AND PROFILE - TRENCHLESS 12-294.9-2.7
HISTORIC WALL CROSSING - CONDUIT 1 & 2
ROCKLAND COUNTY, NY

KIEWIT PROJECT NO. 21162
TT PROJECT NO. 204-3701
DRAWING NO. **C-350**

DRAWN BY: MRS | DESIGNED BY: AMC | APPROVED BY: EJK | SCALE AS SHOWN | REV. NO. B | DATE 04/14/2023 | SH.NO. OF

File: C:\PWWORKING\REN\DMS5141\21162_7B_C-350.DWG Saved: 4/12/2023 9:21:23 AM Plotted: 4/12/2023 4:42:34 PM Current User: Seidel, Michael LastSavedBy: MICHAEL SEIDEL

E&SC KEY MAP
SCALE: 1" = 2000'

CHPE Champlain Hudson Power Express

Kiewit

Engineering and Land Surveying, P.C.

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.

ISSUED FOR PERMITTING

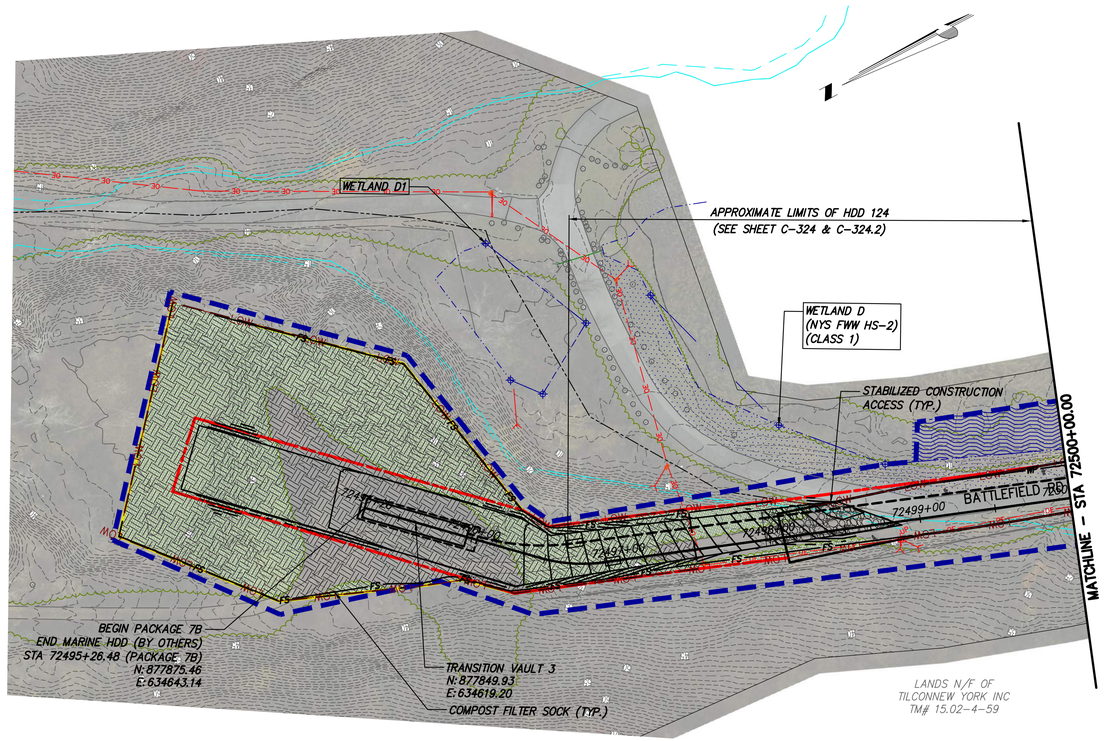
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
F	04/14/2023	FINAL SUBMISSION	BL	BD
E	03/01/2023	DRAFT FINAL REV 1 SUBMISSION	BL	BD
D	11/16/2022	DRAFT FINAL SUBMISSION	BL	BD
C	05/20/2022	60% DESIGN SUBMISSION	BL	BD
B	03/23/2022	PRELIMINARY DESIGN DEVELOPMENT	BL	BD
A	02/18/2022	PRELIMINARY PROGRESS	BL	BD

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W: ROCKLAND
KEY PLAN E&SC

DRAWN BY: BL | DESIGNED BY: BL | APPROVED BY: BD | SCALE AS SHOWN | REV. NO. F

KIEWIT PROJECT NO. 21162
KC PROJECT NO. 120174
DRAWING NO. **C-400**
DATE 04/14/2023
SH.NO. XX OF XXX

File: P:\120174-CHPE_CABLE_INSTALL-KIEWIT\60_CAD\20_ENGINEERING_CAD_FILES\PACKAGE_7B\NY_ENVIRONMENTAL_(EROSION_CONTROL)\01_ACE\SHEET_FILES\21162_7B_C-400.DWG Saved: 4/11/2023 11:33:57 AM Plotted: 4/13/2023 4:15:43 PM Current User: Benson Lam LastSavedBy: blam



STA. 72495+26.48 TO 72500+00.00 PLAN VIEW

SCALE: 1" = 50'

0 50 100
Scale in feet

CHPE Champlain Hudson Power Express

Kiewit

Engineering and Land Surveying, P.C.

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.

ISSUED FOR PERMITTING

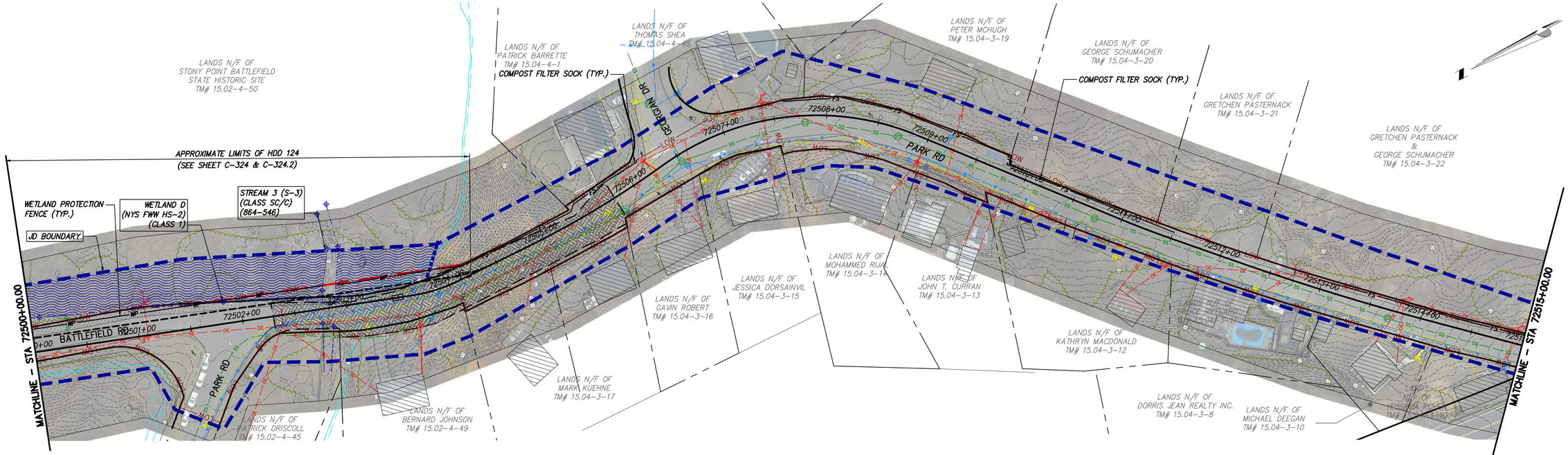
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
F	04/14/2023	FINAL SUBMISSION	BL	BD
E	03/01/2023	DRAFT FINAL REV 1 SUBMISSION	BL	BD
D	11/16/2022	DRAFT FINAL SUBMISSION	BL	BD
C	05/20/2022	60% DESIGN SUBMISSION	BL	BD
B	03/23/2022	PRELIMINARY DESIGN DEVELOPMENT	BL	BD
A	02/18/2022	PRELIMINARY PROGRESS	BL	BD

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W: ROCKLAND
EROSION AND SEDIMENT CONTROL PLAN
STA. 72495+26.48 TO STA. 72500+00.00

KIEWIT PROJECT NO. 21162
KC PROJECT NO. 120174
DRAWING NO. **C-400A**

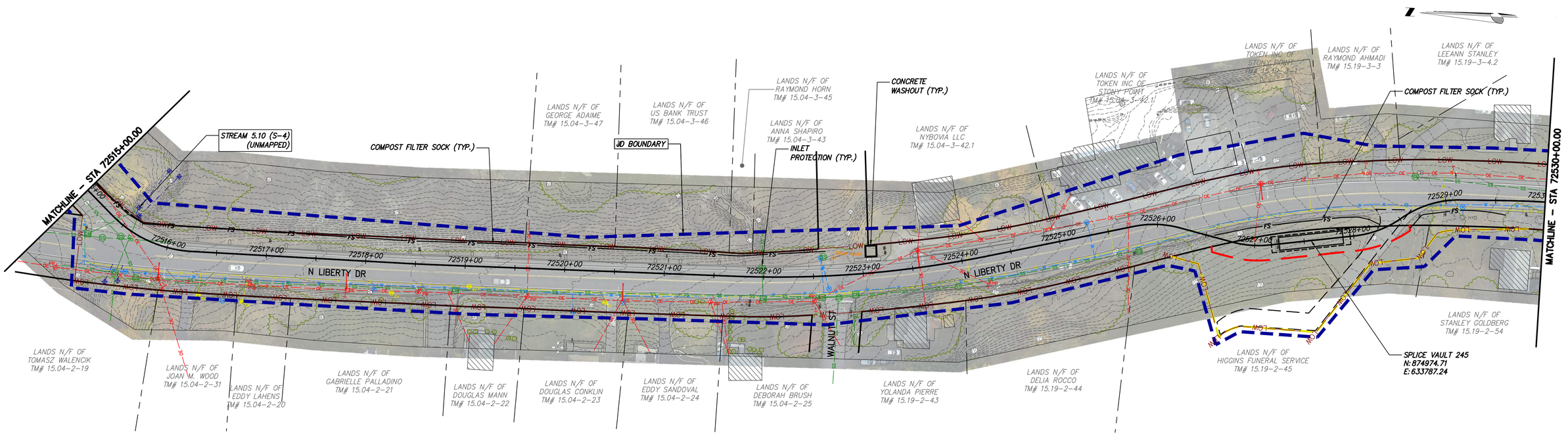
DRAWN BY: BL | DESIGNED BY: BL | APPROVED BY: BD | SCALE AS SHOWN | REV. NO. F | DATE 04/14/2023 | SH.NO. XX OF XXX

File: P:\120174-CHPE_CABLE_INSTALL-KIEWIT\60_CAD\20_ENGINEERING_CAD_FILES\PACKAGE_7B\NY_ENVIRONMENTAL_(EROSION_CONTROL)\01_KCE\SHEET_FILES\21162_7B_C-400A.DWG Saved: 4/11/2023 10:28:21 AM Plotted: 4/13/2023 4:16:56 PM Current User: Benson Lam LastSavedBy: blam



STA. 72500+00.00 TO STA. 72515+00.00 PLAN VIEW

SCALE: 1" = 50'



STA. 72515+00.00 TO STA. 72530+00.00 PLAN VIEW

SCALE: 1" = 50'

CHPE Champlain Hudson Power Express

Kiewit

Engineering and Land Surveying, P.C.

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.

ISSUED FOR PERMITTING

No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
F	04/14/2023	FINAL SUBMISSION	BL	BD
E	03/01/2023	DRAFT FINAL REV 1 SUBMISSION	BL	BD
D	11/16/2022	DRAFT FINAL SUBMISSION	BL	BD
C	05/20/2022	60% DESIGN SUBMISSION	BL	BD
B	03/23/2022	PRELIMINARY DESIGN DEVELOPMENT	BL	BD
A	02/18/2022	PRELIMINARY PROGRESS	BL	BD

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W: ROCKLAND
EROSION AND SEDIMENT CONTROL PLAN
STA. 72500+00.00 TO STA. 72530+00.00

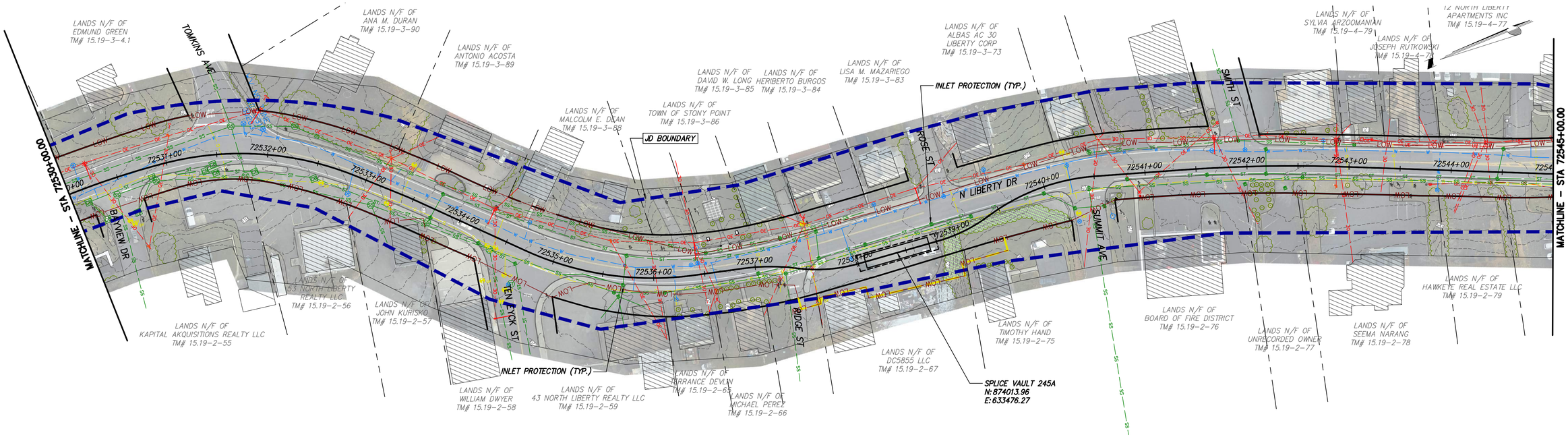
DRAWN BY: BL | DESIGNED BY: BL | APPROVED BY: BD | SCALE AS SHOWN | REV. NO. F | DATE 04/14/2023 | SH.NO. XX OF XXX

KIEWIT PROJECT NO. 21162

KC PROJECT NO. 120174

DRAWING NO. **C-401**

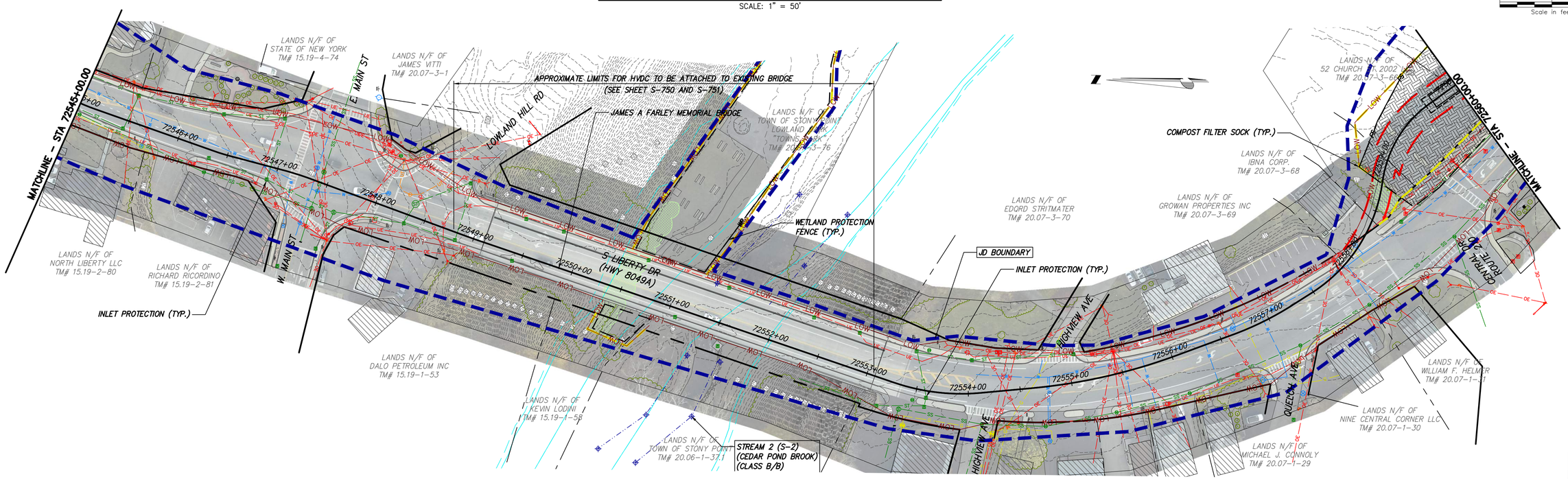
File: P:\120174-CHPE_CABLE_INSTALL-KIEWIT\60_CAD\20_ENGINEERING_CAD_FILES\PACKAGE_7B\NY_ENVIRONMENTAL_(EROSION_CONTROL)\01_KCE\SHEET_FILES\21162_7B_C-401.DWG Saved: 4/11/2023 10:30:17 AM Plotted: 4/13/2023 4:18:54 PM Current User: Benson Lam LastSavedBy: blam



STA. 72530+00.00 TO STA. 72545+00.00 PLAN VIEW

SCALE: 1" = 50'

0 50 100
Scale in feet



STA. 72545+00.00 TO STA. 72560+00.00 PLAN VIEW

SCALE: 1" = 50'

0 50 100
Scale in feet

CHPE Champlain Hudson Power Express

Kiewit

Engineering and Land Surveying, P.C.

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.

ISSUED FOR PERMITTING

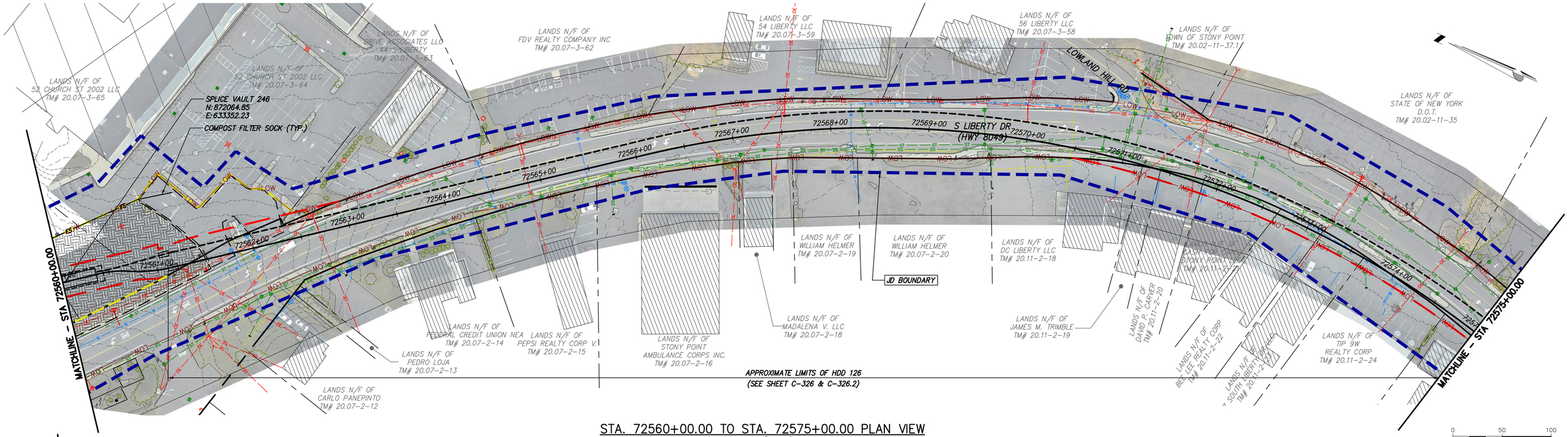
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
F	04/14/2023	FINAL SUBMISSION	BL	BD
E	03/01/2023	DRAFT FINAL REV 1 SUBMISSION	BL	BD
D	11/16/2022	DRAFT FINAL SUBMISSION	BL	BD
C	05/20/2022	60% DESIGN SUBMISSION	BL	BD
B	03/23/2022	PRELIMINARY DESIGN DEVELOPMENT	BL	BD
A	02/18/2022	PRELIMINARY PROGRESS	BL	BD

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W: ROCKLAND
EROSION AND SEDIMENT CONTROL PLAN
STA. 72530+00.00 TO STA. 72560+00.00

DRAWN BY: BL | DESIGNED BY: BL | APPROVED BY: BD | SCALE: AS SHOWN | REV. NO. F | DATE 04/14/2023 | SH.NO. XX OF XXX

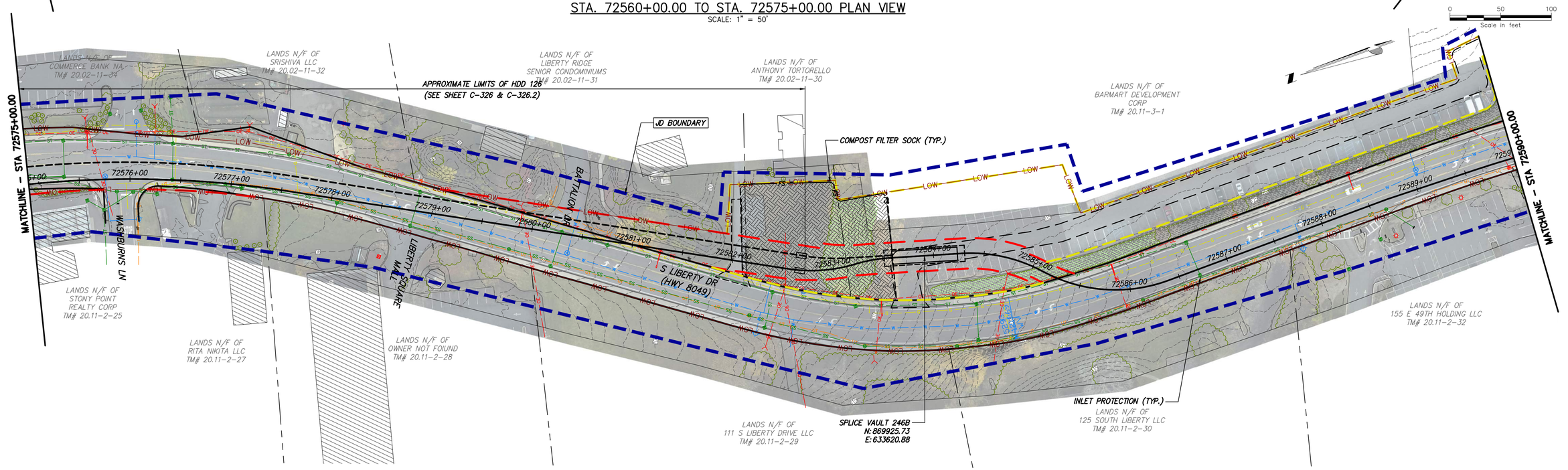
KIEWIT PROJECT NO. 21162
KC PROJECT NO. 120174
DRAWING NO. **C-402**

File: P:\120174-CHPE_CABLE_INSTALL-KIEWIT\60_CAD\20_ENGINEERING_CAD_FILES\PACKAGE_7B\NY_ENVIRONMENTAL_(EROSION_CONTROL)\01_KCE\SHEET_FILES\21162_7B_C-401-405.DWG Saved: 4/11/2023 10:30:17 AM Plotted: 4/13/2023 4:19:50 PM Current User: Benson Lam LastSavedBy: blam



STA. 72560+00.00 TO STA. 72575+00.00 PLAN VIEW

SCALE: 1" = 50'



STA. 72575+00.00 TO STA. 72590+00.00 PLAN VIEW

SCALE: 1" = 50'

CHPE Champlain Hudson Power Express

Kiewit

Engineering and Land Surveying, P.C.

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.

ISSUED FOR PERMITTING

No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
F	04/14/2023	FINAL SUBMISSION	BL	BD
E	03/01/2023	DRAFT FINAL REV 1 SUBMISSION	BL	BD
D	11/16/2022	DRAFT FINAL SUBMISSION	BL	BD
C	05/20/2022	60% DESIGN SUBMISSION	BL	BD
B	03/23/2022	PRELIMINARY DESIGN DEVELOPMENT	BL	BD
A	02/18/2022	PRELIMINARY PROGRESS	BL	BD

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W: ROCKLAND
EROSION AND SEDIMENT CONTROL PLAN
STA. 72560+00.00 TO STA. 72590+00.00

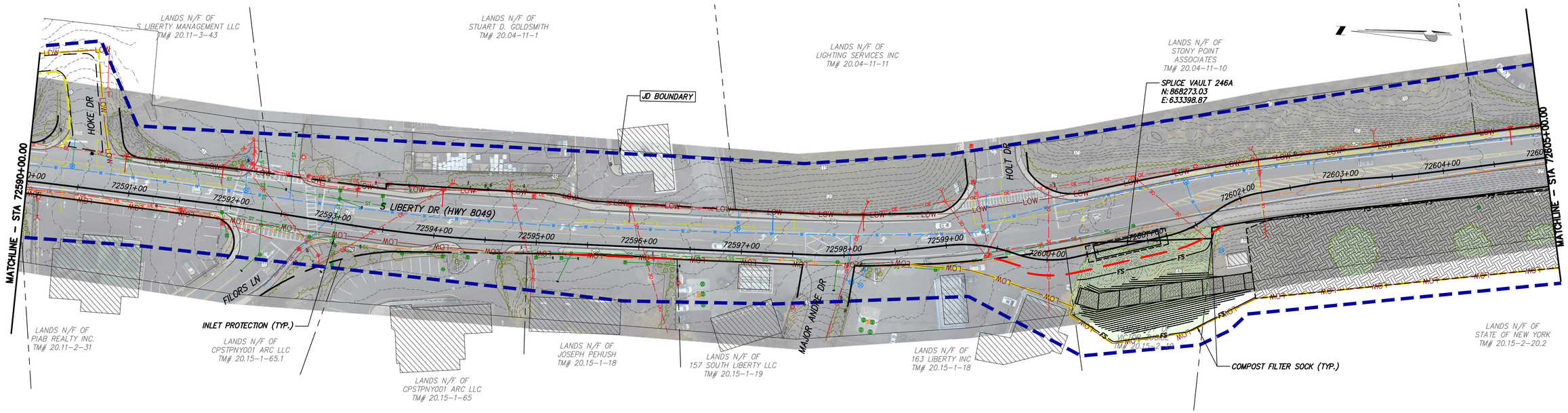
DRAWN BY: BL | DESIGNED BY: BL | APPROVED BY: BD | SCALE AS SHOWN | REV. NO. F | DATE 04/14/2023 | SH.NO. XX OF XXX

KIEWIT PROJECT NO. 21162

KC PROJECT NO. 120174

DRAWING NO. **C-403**

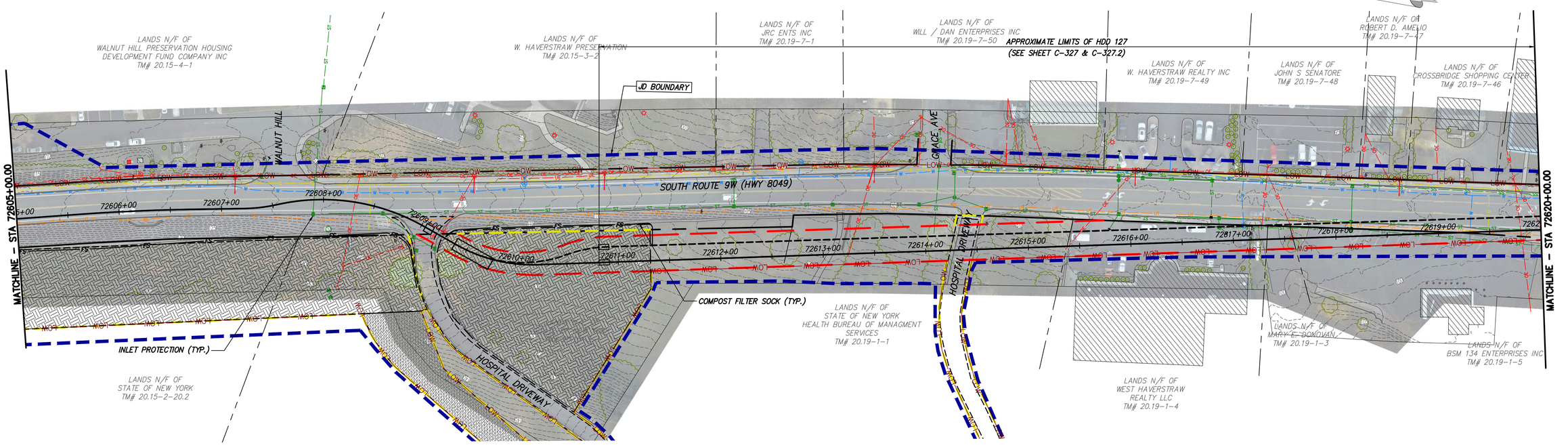
File: P:\120174-CHPE_CABLE_INSTALL-KIEWIT\60_CAD\20_ENGINEERING_CAD_FILES\PACKAGE_7B\NY_ENVIRONMENTAL_(EROSION_CONTROL)\01_KCE\SHEET_FILES\21162_7B_C-401-405.DWG Saved: 4/11/2023 10:30:17 AM Plotted: 4/13/2023 4:20:56 PM Current User: Benson Lam LastSavedBy: blam



STA. 72590+00.00 TO STA. 72605+00.00 PLAN VIEW

SCALE: 1" = 50'

0 50 100
Scale in feet



STA. 72605+00.00 TO STA. 72620+00.00 PLAN VIEW

SCALE: 1" = 50'

0 50 100
Scale in feet

CHPE Champlain Hudson Power Express

Kiewit

Engineering and Land Surveying, P.C.

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.

ISSUED FOR PERMITTING

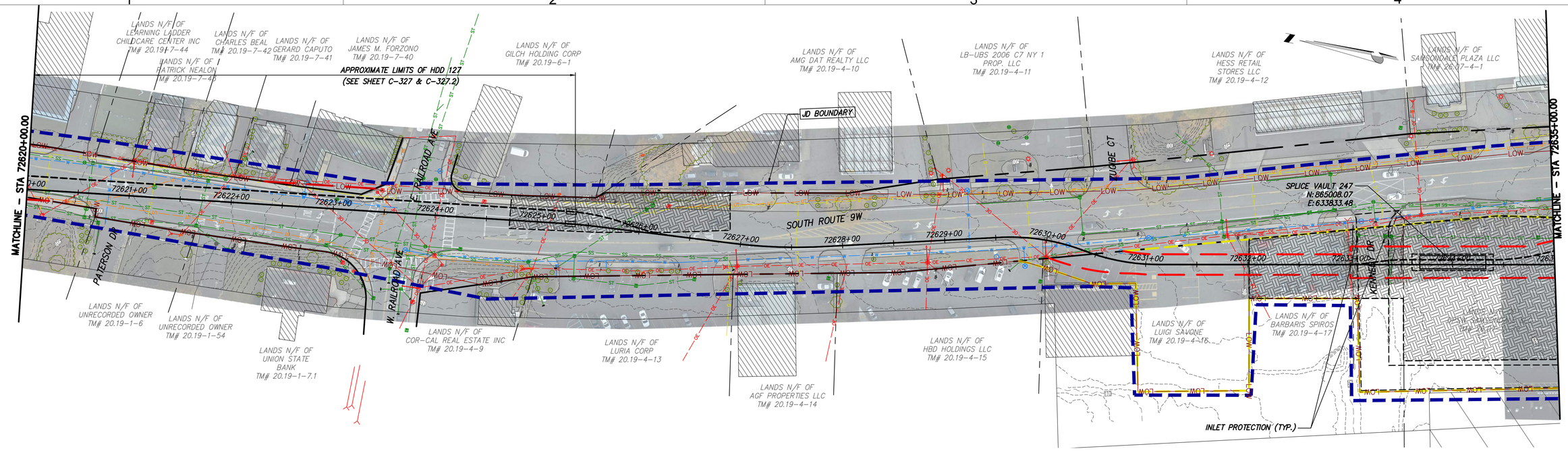
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
F	04/14/2023	FINAL SUBMISSION	BL	BD
E	03/01/2023	DRAFT FINAL REV 1 SUBMISSION	BL	BD
D	11/16/2022	DRAFT FINAL SUBMISSION	BL	BD
C	05/20/2022	60% DESIGN SUBMISSION	BL	BD
B	03/23/2022	PRELIMINARY DESIGN DEVELOPMENT	BL	BD
A	02/18/2022	PRELIMINARY PROGRESS	BL	BD

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W: ROCKLAND
EROSION AND SEDIMENT CONTROL PLAN
STA. 72590+00.00 TO STA. 72620+00.00

DRAWN BY: BL | DESIGNED BY: BL | APPROVED BY: BD | SCALE AS SHOWN | REV. NO. F | DATE 04/14/2023 | SH.NO. XX OF XXX

KIEWIT PROJECT NO. 21162
KC PROJECT NO. 120174
DRAWING NO. **C-404**

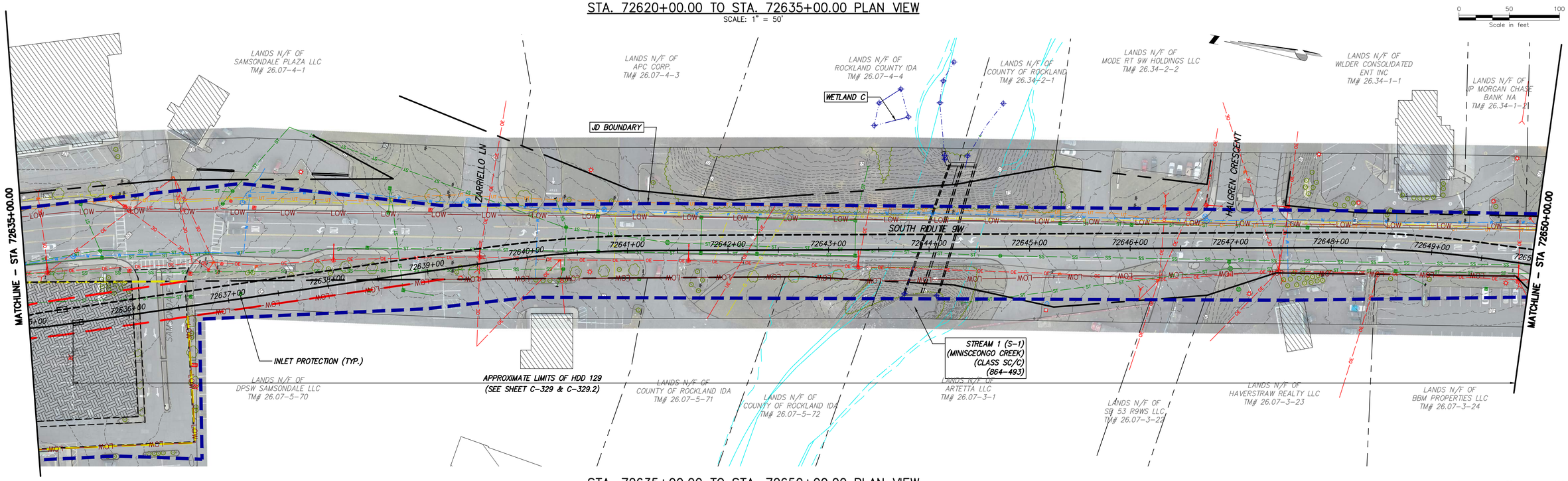
File: P:\120174-CHPE_CABLE_INSTALL-KIEWIT\60_CAD\20_ENGINEERING_CAD_FILES\PACKAGE_7B\NY_ENVIRONMENTAL_(EROSION_CONTROL)\01_ACE\SHEET_FILES\21162_7B_C-401-405.DWG Saved: 4/11/2023 10:30:17 AM Plotted: 4/13/2023 4:21:46 PM Current User: Benson Lam LastSavedBy: blam



STA. 72620+00.00 TO STA. 72635+00.00 PLAN VIEW

SCALE: 1" = 50'

0 50 100
Scale in feet



STA. 72635+00.00 TO STA. 72650+00.00 PLAN VIEW

SCALE: 1" = 50'

0 50 100
Scale in feet

CHPE Champlain Hudson Power Express

Kiewit

Engineering and Land Surveying, P.C.

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.

ISSUED FOR PERMITTING

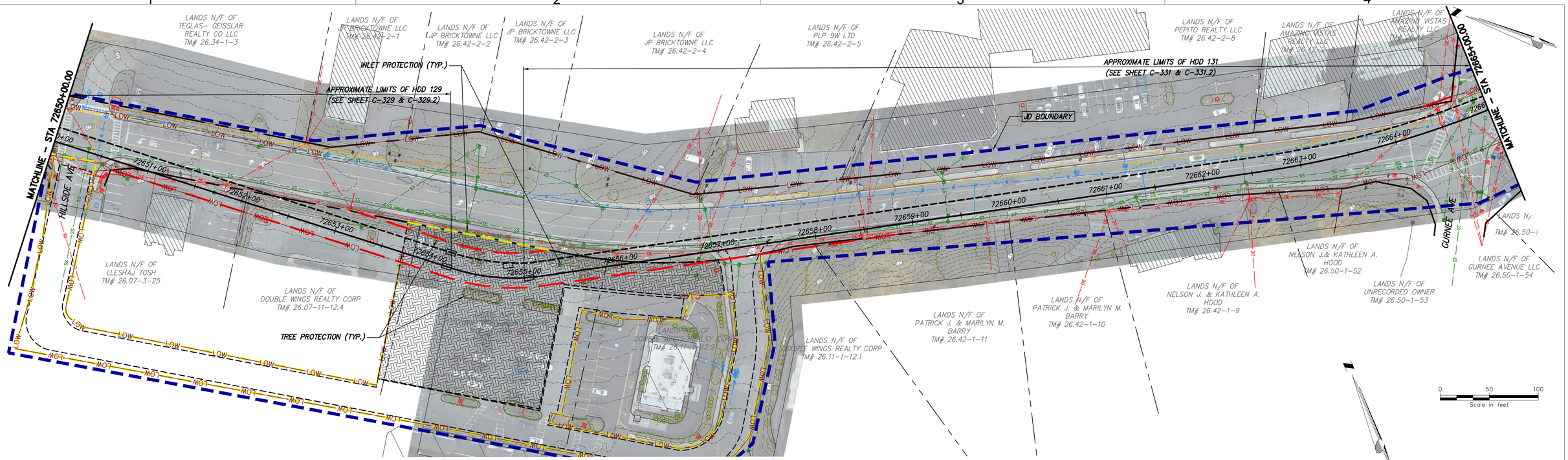
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
F	04/14/2023	FINAL SUBMISSION	BL	BD
E	03/01/2023	DRAFT FINAL REV 1 SUBMISSION	BL	BD
D	11/16/2022	DRAFT FINAL SUBMISSION	BL	BD
C	05/20/2022	60% DESIGN SUBMISSION	BL	BD
B	03/23/2022	PRELIMINARY DESIGN DEVELOPMENT	BL	BD
A	02/18/2022	PRELIMINARY PROGRESS	BL	BD

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W: ROCKLAND
EROSION AND SEDIMENT CONTROL PLAN
STA. 72620+00.00 TO STA. 72650+00.00

DRAWN BY: BL | DESIGNED BY: BL | APPROVED BY: BD | SCALE: AS SHOWN | REV. NO. F | DATE: 04/14/2023 | SH.NO. XX OF XXX

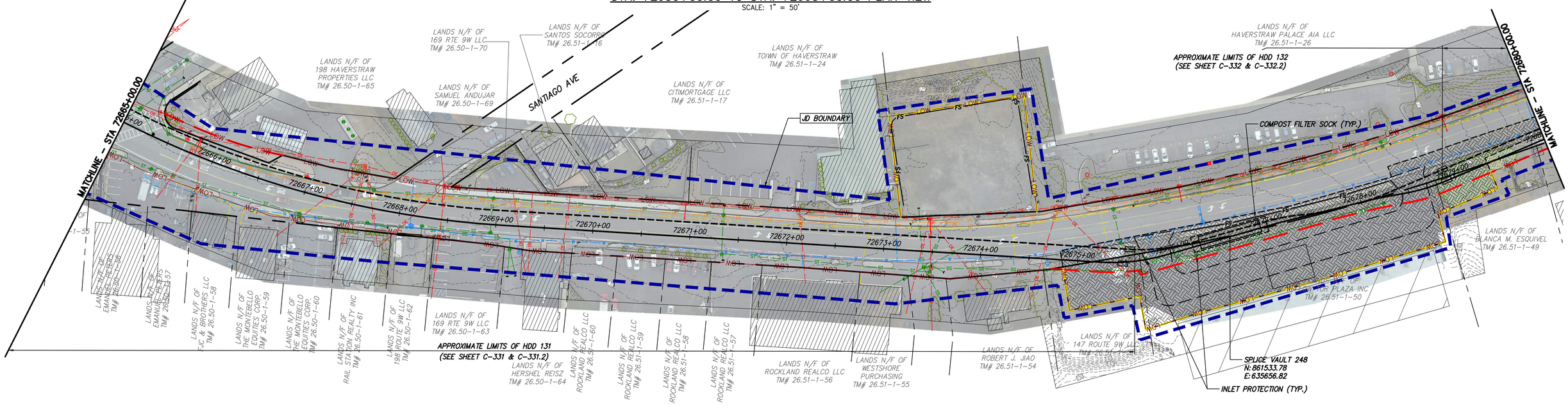
KIEWIT PROJECT NO. 21162
KC PROJECT NO. 120174
DRAWING NO. **C-405**

File: P:\120174-CHPE_CABLE_INSTALL-KIEWIT\60_CAD\20_ENGINEERING_CAD_FILES\PACKAGE_7B\NY_ENVIRONMENTAL_(EROSION_CONTROL)\01_KCE\SHEET_FILES\21162_7B_C-401-405.DWG Saved: 4/11/2023 10:30:17 AM Plotted: 4/13/2023 4:22:39 PM Current User: Benson Lam LastSavedBy: blam



STA. 72650+00.00 TO STA. 72665+00.00 PLAN VIEW

SCALE: 1" = 50'



STA. 72665+00.00 TO STA. 72680+00.00 PLAN VIEW

SCALE: 1" = 50'

CHPE Champlain Hudson Power Express

Kiewit

Engineering and Land Surveying, P.C.

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.

ISSUED FOR PERMITTING

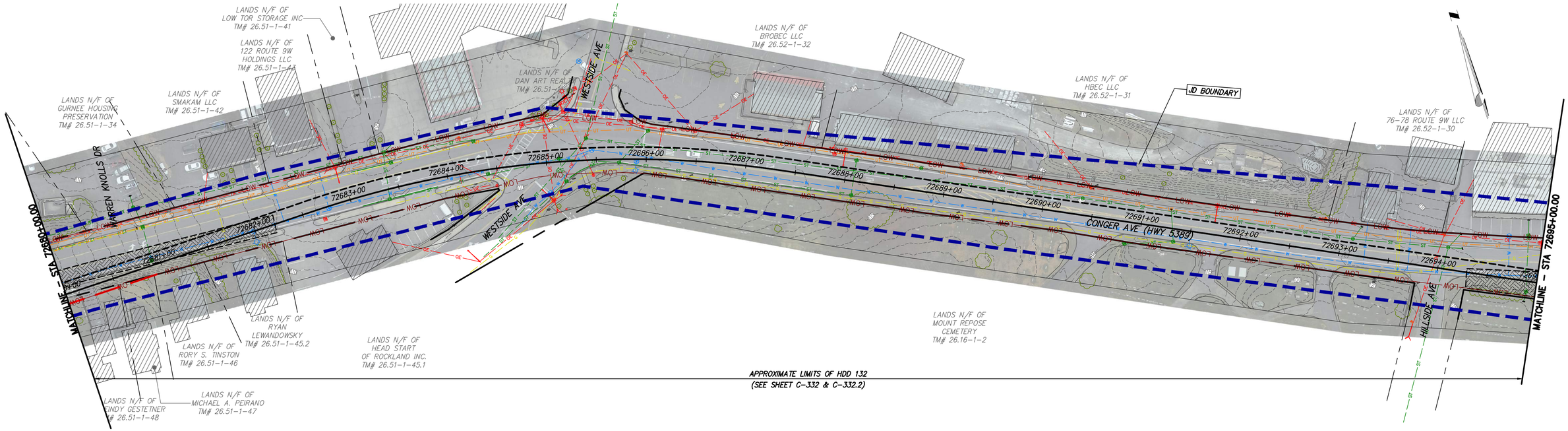
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
F	04/14/2023	FINAL SUBMISSION	BL	BD
E	03/01/2023	DRAFT FINAL REV 1 SUBMISSION	BL	BD
D	11/16/2022	DRAFT FINAL SUBMISSION	BL	BD
C	05/20/2022	60% DESIGN SUBMISSION	BL	BD
B	03/23/2022	PRELIMINARY DESIGN DEVELOPMENT	BL	BD
A	02/18/2022	PRELIMINARY PROGRESS	BL	BD

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W: ROCKLAND
EROSION AND SEDIMENT CONTROL PLAN
STA. 72650+00.00 TO STA. 72680+00.00

DRAWN BY: BL | DESIGNED BY: BL | APPROVED BY: BD | SCALE: AS SHOWN | REV. NO. F | DATE: 04/14/2023 | SH.NO. XX OF XXX

KIEWIT PROJECT NO. 21162
KC PROJECT NO. 120174
DRAWING NO. **C-406**

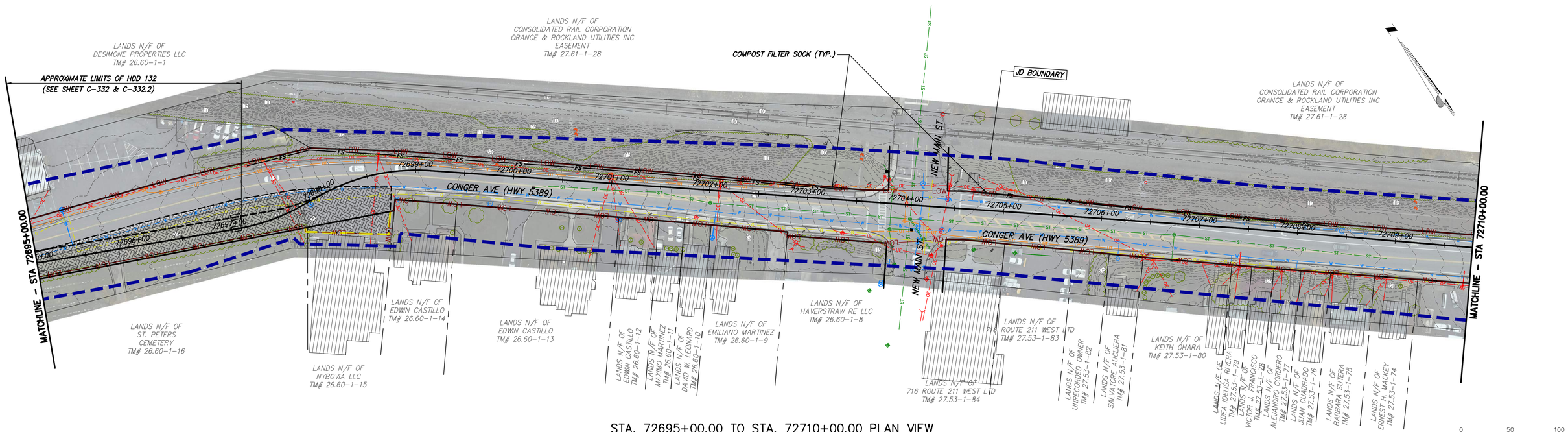
File: P:\120174-CHPE_CABLE_INSTALL-KIEWIT\60_CAD\20_ENGINEERING_CAD_FILES\PACKAGE_7B\NY_ENVIRONMENTAL_(EROSION_CONTROL)\01_XCE\SHEET_FILES\21162_7B_C-406-410.DWG Saved: 4/11/2023 10:33:17 AM Plotted: 4/13/2023 4:24:54 PM Current User: Benson Lam LastSavedBy: blam



STA. 72680+00.00 TO STA. 72695+00.00 PLAN VIEW

SCALE: 1" = 50'

0 50 100 Scale in feet



STA. 72695+00.00 TO STA. 72710+00.00 PLAN VIEW

SCALE: 1" = 50'

0 50 100 Scale in feet

CHPE Champlain Hudson Power Express

Kiewit

Engineering and Land Surveying, P.C.

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.

ISSUED FOR PERMITTING

No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
F	04/14/2023	FINAL SUBMISSION	BL	BD
E	03/01/2023	DRAFT FINAL REV 1 SUBMISSION	BL	BD
D	11/16/2022	DRAFT FINAL SUBMISSION	BL	BD
C	05/20/2022	60% DESIGN SUBMISSION	BL	BD
B	03/23/2022	PRELIMINARY DESIGN DEVELOPMENT	BL	BD
A	02/18/2022	PRELIMINARY PROGRESS	BL	BD

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W: ROCKLAND
EROSION AND SEDIMENT CONTROL PLAN
STA. 72680+00.00 TO STA. 72710+00.00

DRAWN BY: BL DESIGNED BY: BL APPROVED BY: BD

SCALE AS SHOWN REV. NO. F

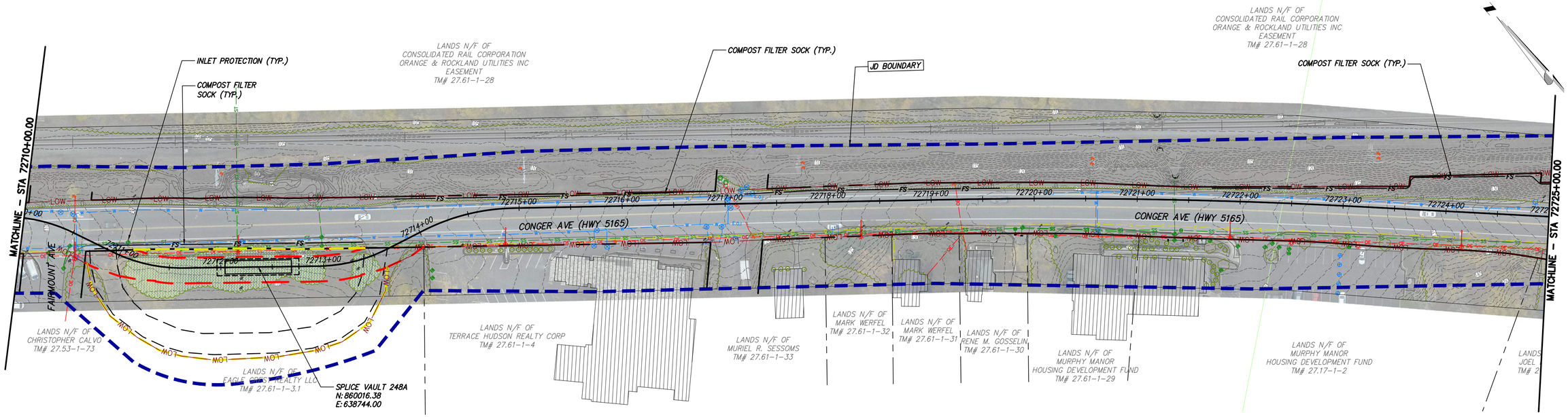
KIEWIT PROJECT NO. 21162

KC PROJECT NO. 120174

DRAWING NO. **C-407**

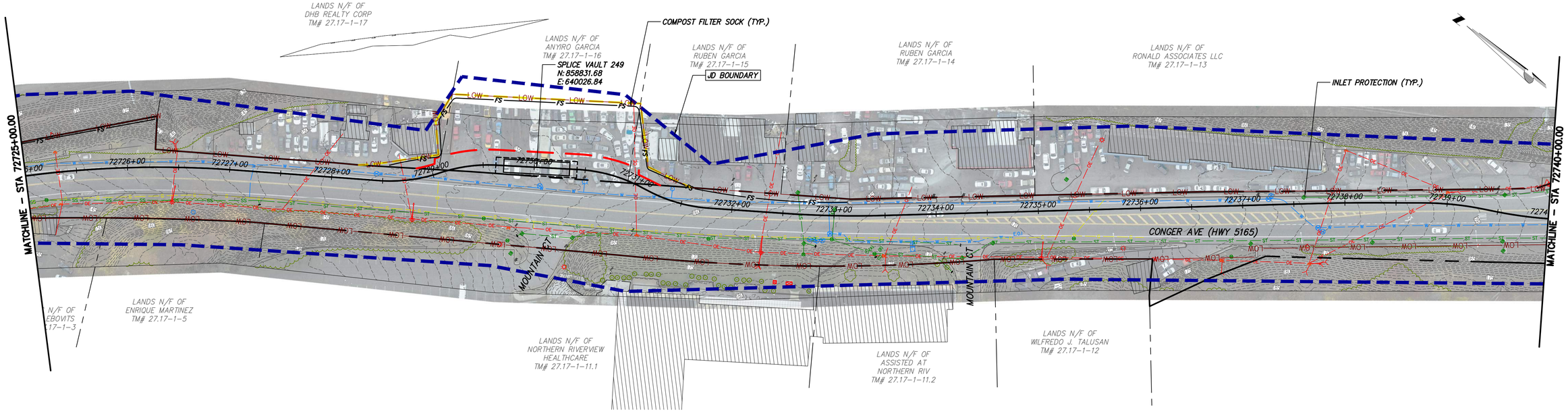
DATE 04/14/2023 SH.NO. XX OF XXX

File: P:\120174-CHPE_CABLE_INSTALL-KIEWIT\60_CAD\30_ENGINEERING_CAD_FILES\PACKAGE_7B\NY_ENVIRONMENTAL_(EROSION_CONTROL)\01_KCE\SHEET_FILES\21162_7B_C-406-410.DWG Saved: 4/11/2023 10:33:17 AM Plotted: 4/13/2023 4:25:58 PM Current User: Benson Lam LastSavedBy: blam



STA. 72710+00.00 TO STA. 72725+00.00 PLAN VIEW

SCALE: 1" = 50'



STA. 72725+00.00 TO STA. 72740+00.00 PLAN VIEW

SCALE: 1" = 50'

CHPE Champlain Hudson Power Express

Kiewit

Engineering and Land Surveying, P.C.

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.

ISSUED FOR PERMITTING

No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
F	04/14/2023	FINAL SUBMISSION	BL	BD
E	03/01/2023	DRAFT FINAL REV 1 SUBMISSION	BL	BD
D	11/16/2022	DRAFT FINAL SUBMISSION	BL	BD
C	05/20/2022	60% DESIGN SUBMISSION	BL	BD
B	03/23/2022	PRELIMINARY DESIGN DEVELOPMENT	BL	BD
A	02/18/2022	PRELIMINARY PROGRESS	BL	BD

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W: ROCKLAND
EROSION AND SEDIMENT CONTROL PLAN
STA. 72710+00.00 TO STA. 72740+00.00

DRAWN BY: BL | DESIGNED BY: BL | APPROVED BY: BD | SCALE: AS SHOWN | REV. NO. F

KIEWIT PROJECT NO. 21162

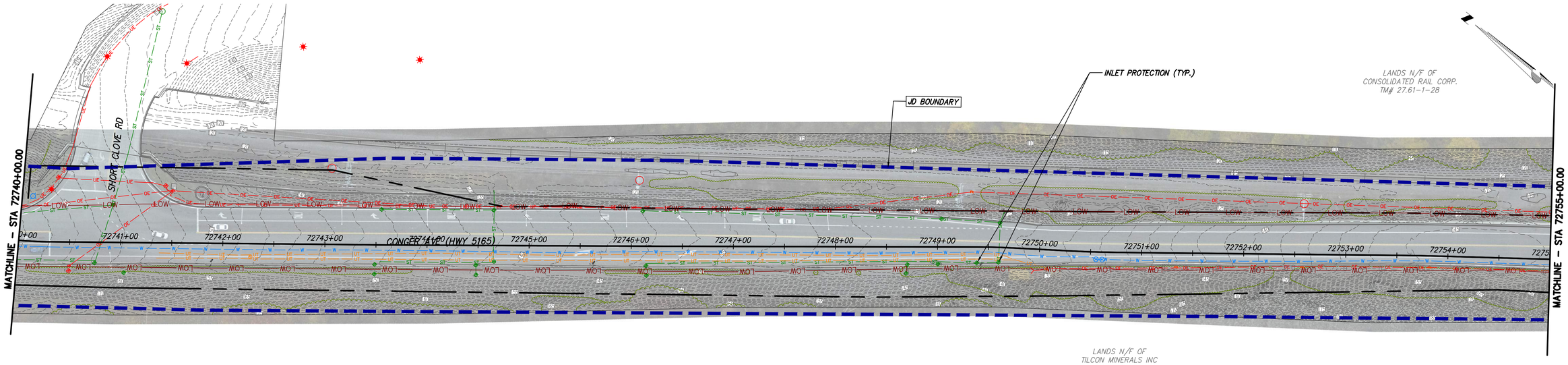
KC PROJECT NO. 120174

DRAWING NO. **C-408**

DATE 04/14/2023

SH.NO. XX OF XXX

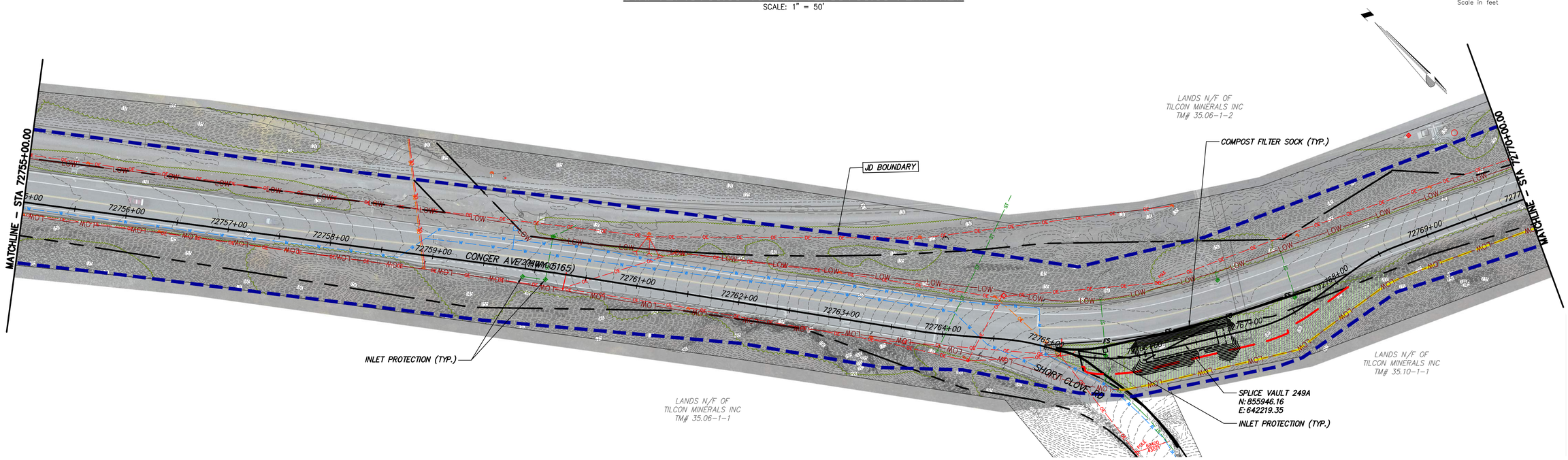
File: P:\120174-CHPE_CABLE_INSTALL-KIEWIT\60_CAD\20_ENGINEERING_CAD_FILES\PACKAGE_7B\NY_ENVIRONMENTAL_(EROSION_CONTROL)\01_KCE\SHEET_FILES\21162_7B_C-408.DWG Saved: 4/11/2023 10:33:17 AM Plotted: 4/13/2023 4:27:09 PM Current User: Benson Lam LastSavedBy: blam



STA. 72740+00.00 TO STA. 72755+00.00 PLAN VIEW

SCALE: 1" = 50'

0 50 100
Scale in feet



STA. 72755+00.00 TO STA. 72770+00.00 PLAN VIEW

SCALE: 1" = 50'

0 50 100
Scale in feet

CHPE Champlain Hudson Power Express

Kiewit

Engineering and Land Surveying, P.C.

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.

ISSUED FOR PERMITTING

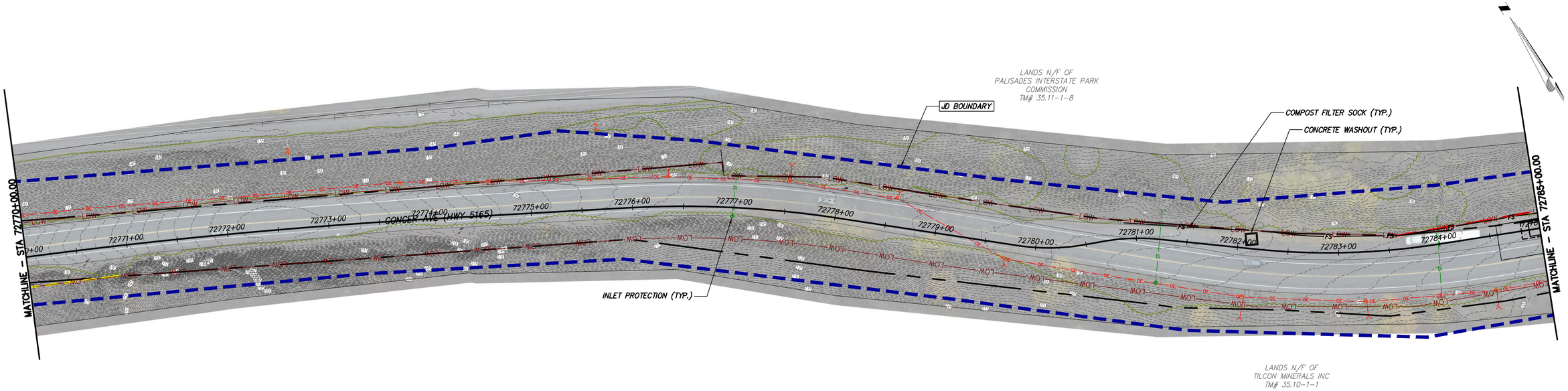
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
F	04/14/2023	FINAL SUBMISSION	BL	BD
E	03/01/2023	DRAFT FINAL REV 1 SUBMISSION	BL	BD
D	11/16/2022	DRAFT FINAL SUBMISSION	BL	BD
C	05/20/2022	60% DESIGN SUBMISSION	BL	BD
B	03/23/2022	PRELIMINARY DESIGN DEVELOPMENT	BL	BD
A	02/18/2022	PRELIMINARY PROGRESS	BL	BD

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W: ROCKLAND
EROSION AND SEDIMENT CONTROL PLAN
STA. 72740+00.00 TO STA. 72770+00.00

DRAWN BY: BL | DESIGNED BY: BL | APPROVED BY: BD | SCALE: AS SHOWN | REV. NO. F | DATE 04/14/2023 | SH.NO. XX OF XXX

KIEWIT PROJECT NO. 21162
KC PROJECT NO. 120174
DRAWING NO. **C-409**

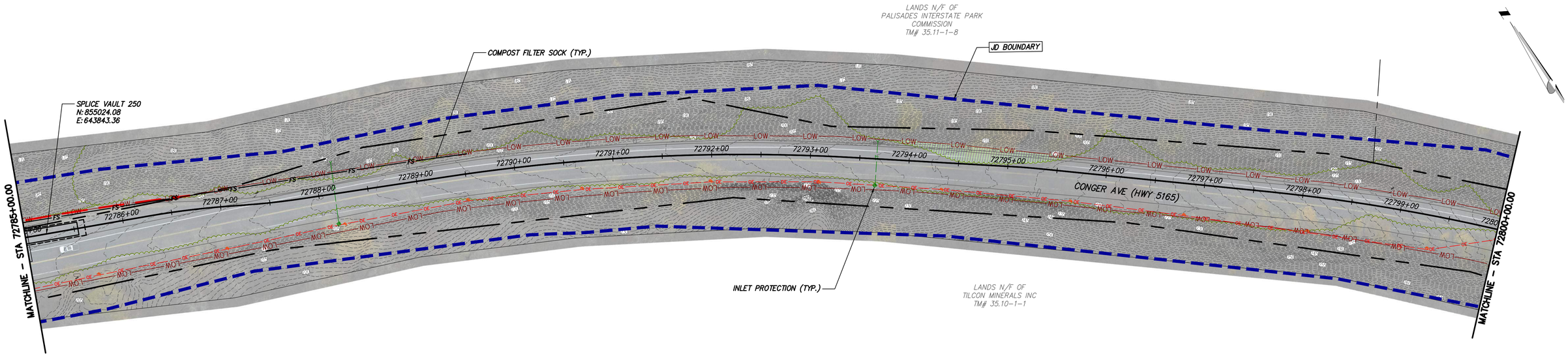
File: P:\120174-CHPE_CABLE_INSTALL-KIEWIT\60_CAD\20_ENGINEERING_CAD_FILES\PACKAGE_7B\NY_ENVIRONMENTAL_(EROSION_CONTROL)\01_KCE\SHEET_FILES\21162_7B_C-406-410.DWG Saved: 4/11/2023 10:33:17 AM Plotted: 4/13/2023 4:28:23 PM Current User: Benson Lam LastSavedBy: blam



STA. 72770+00.00 TO STA. 72785+00.00 PLAN VIEW

SCALE: 1" = 50'

0 50 100
Scale in feet



STA. 72785+00.00 TO STA. 72800+00.00 PLAN VIEW

SCALE: 1" = 50'

0 50 100
Scale in feet

CHPE Champlain Hudson Power Express

Kiewit

Engineering and Land Surveying, P.C.

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 OF 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.

ISSUED FOR PERMITTING

No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
F	04/14/2023	FINAL SUBMISSION	BL	BD
E	03/01/2023	DRAFT FINAL REV 1 SUBMISSION	BL	BD
D	11/16/2022	DRAFT FINAL SUBMISSION	BL	BD
C	05/20/2022	60% DESIGN SUBMISSION	BL	BD
B	03/23/2022	PRELIMINARY DESIGN DEVELOPMENT	BL	BD
A	02/18/2022	PRELIMINARY PROGRESS	BL	BD

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 12 (PACKAGE 7B) - ROUTE 9W: ROCKLAND
EROSION AND SEDIMENT CONTROL PLAN
STA. 72770+00.00 TO STA. 72800+00.00

DRAWN BY: BL | DESIGNED BY: BL | APPROVED BY: BD | SCALE AS SHOWN | REV. NO. F | DATE 04/14/2023 | SH.NO. XX OF XXX

KIEWIT PROJECT NO. 21162
KC PROJECT NO. 120174
DRAWING NO. **C-410**

File: P:\120174-CHPE_CABLE_INSTALL-KIEWIT\60_CAD\20_ENGINEERING_CAD_FILES\PACKAGE_7B\NY_ENVIRONMENTAL_(EROSION_CONTROL)\01_KCE\SHEET_FILES\21162_7B-410.DWG Saved: 4/11/2023 10:33:17 AM Plotted: 4/13/2023 4:29:30 PM Current User: Benson Lam LastSavedBy: blam