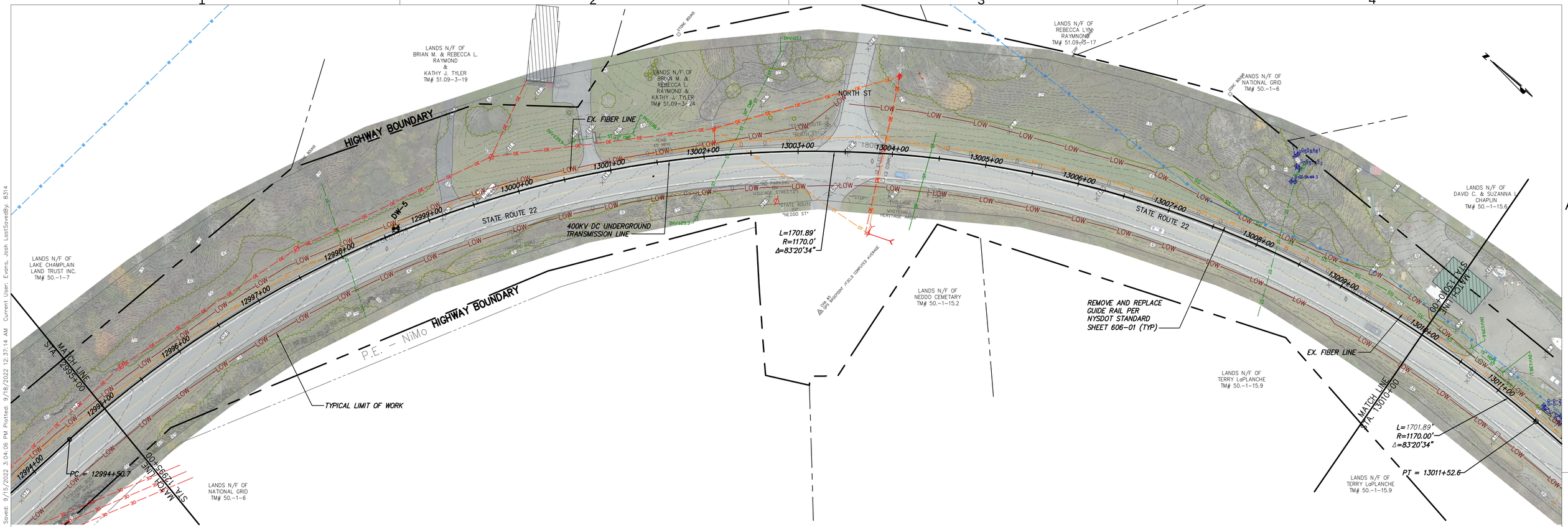
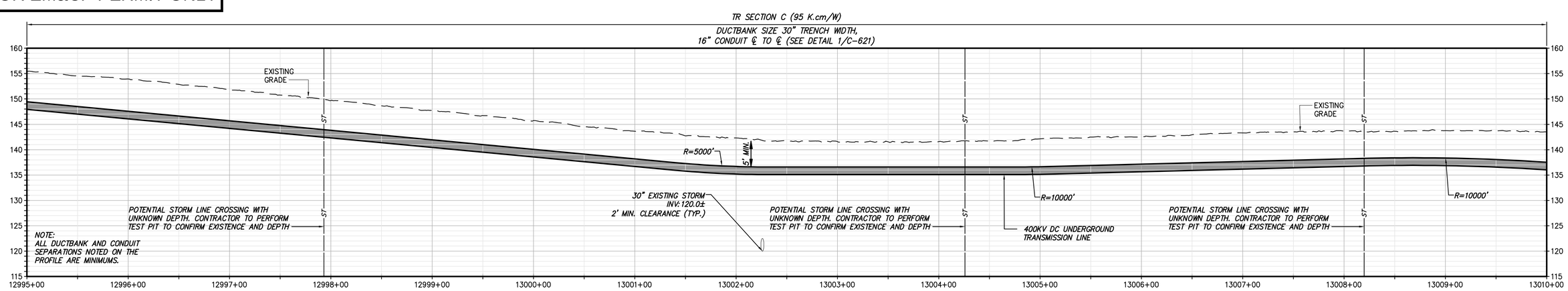


STA. 12995+00 TO STA. 13010+00 PLAN VIEW

SCALE: 1" = 50'

NOT FOR CONSTRUCTION
FOR EM&CP PERMIT ONLY



STA. 12995+00 TO STA. 13010+00 PROFILE VIEW

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

CHPE Champlain Hudson Power Express

Kiewit

CHA
III Winners Circle, PO Box 5269
Albany, NY 12205-0269
518.453.4500 . www.chacompanies.com

STATE OF NEW YORK · JOSEPH P. ROMANO · 081993 · LICENSED PROFESSIONAL ENGINEER
09/18/2022

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.

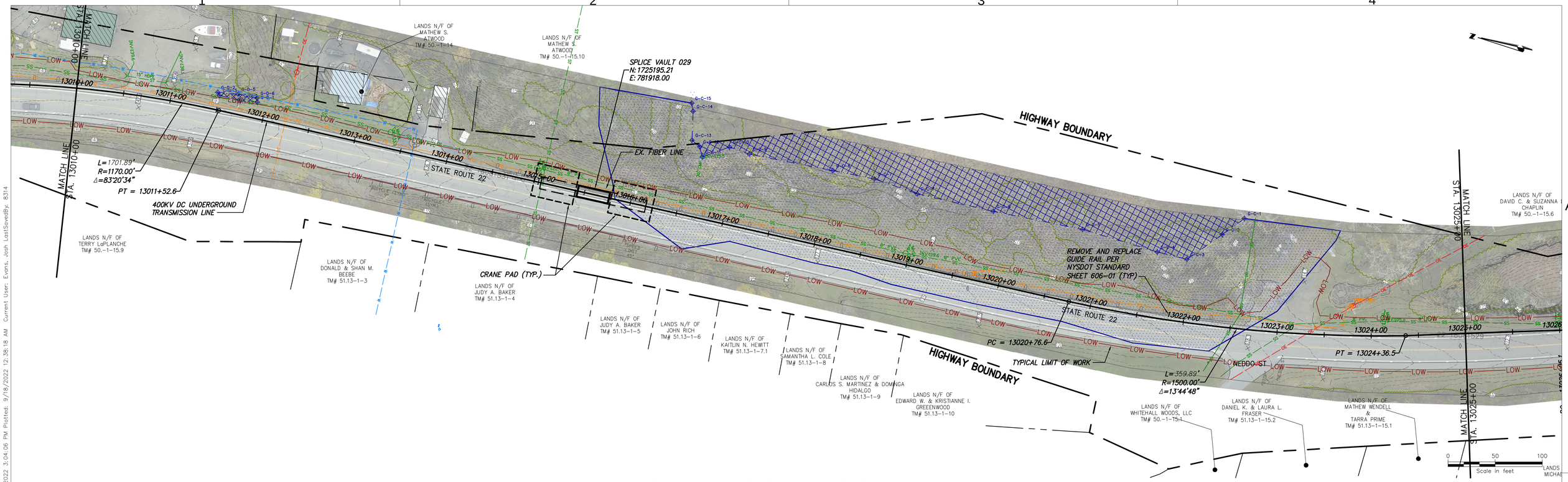
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
0	09/21/2022	FINAL EM&CP SUBMISSION	JM	JR

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 2 - ROUTE 22: DRESDEN - WHITEHALL
STA. 12995+00 TO STA. 13010+00 PLAN AND PROFILE

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. C-134

DRAWN BY: JTM | DESIGNED BY: JTM | APPROVED BY: JPR | SCALE AS NOTED | REV. NO. X | DATE 09/21/2022 | SH.NO. XXX OF XXX

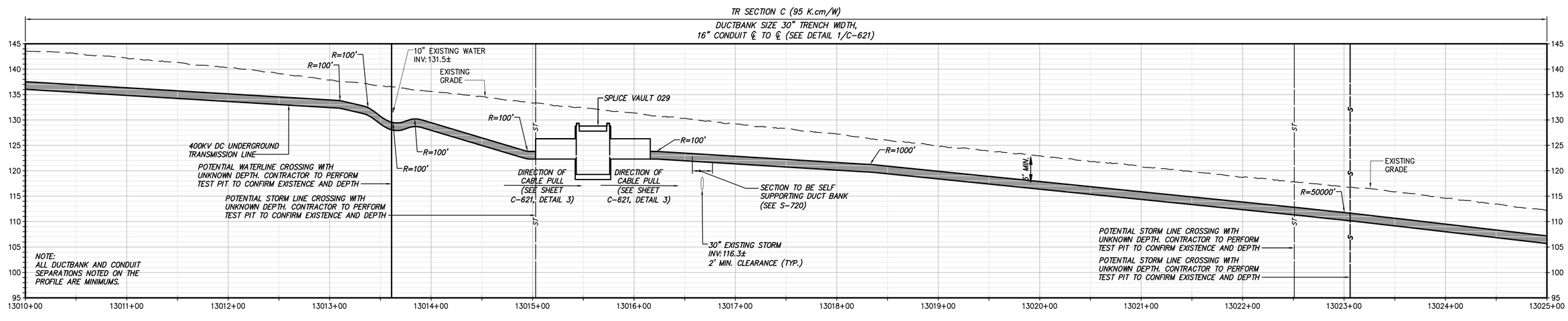
File: V:\PROJECTS\ANY\K6\066076.000\09_DESIGN\DRAWINGS\01_SHEETS\DESIGN PACKAGE 1\DESIGN PACKAGE 1B\066076_P1B - C-131 - C-135.DWG Saved: 9/15/2022 3:04:06 PM Plotted: 9/18/2022 12:37:14 AM Current User: Evans, Josh LastSavedBy: 8314



STA. 13010+00 TO STA. 13025+00 PLAN VIEW

SCALE: 1" = 50'

NOT FOR CONSTRUCTION
FOR EM&CP PERMIT ONLY



STA. 13010+00 TO STA. 13025+00 PROFILE VIEW

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

CHPE Champlain Hudson Power Express

Kiewit

CHA
III Winners Circle, PO Box 5269
Albany, NY 12205-0269
518.453.4500 . www.chacompanies.com

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No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
0	09/21/2022	FINAL EM&CP SUBMISSION	JM	JR

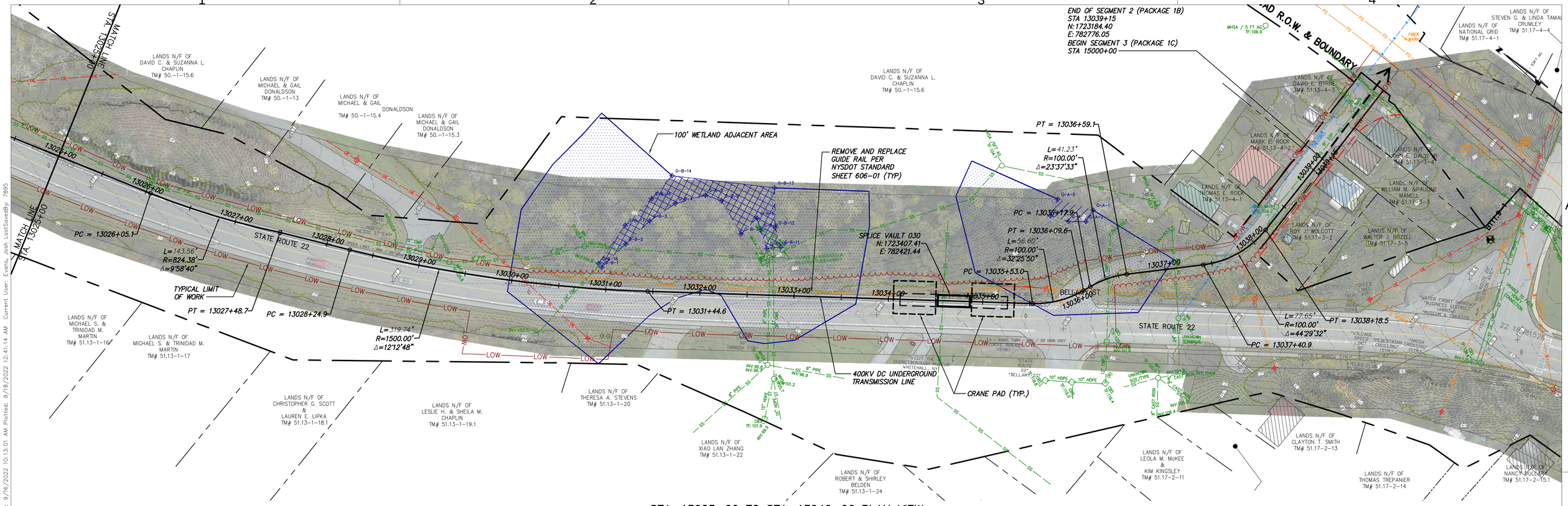
CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 2 - ROUTE 22: DRESDEN - WHITEHALL
STA. 13010+00 TO STA. 13025+00 PLAN AND PROFILE

DRAWN BY: JTM DESIGNED BY: JTM APPROVED BY: JPR

SCALE AS NOTED | REV. NO. X | DATE 09/21/2022 | SH.NO. XXX OF XXX

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. C-135

File: V:\PROJECTS\ANY\K6\066076.000\09_DESIGN\DRAWINGS\01_SHEETS\DESIGN PACKAGE 1\DESIGN PACKAGE 1B\066076_P1B - C-131 - C-135.DWG Saved: 9/15/2022 3:04:06 PM Plotted: 9/18/2022 12:38:18 AM Current User: Evans, Josh LastSavedBy: 8314


END OF SEGMENT 2 (PACKAGE 1B)
STA 13039+15
N:1723184.40
E:782776.05
BEGIN SEGMENT 3 (PACKAGE 1C)
STA 15000+00
100' WETLAND ADJACENT AREA
REMOVE AND REPLACE GUIDE RAIL PER NYSDOT STANDARD SHEET 606-01 (TYP)
SPLICE VAULT 030
N:1723407.41
E:782421.44
400KV DC UNDERGROUND TRANSMISSION LINE
CRANE PAD (TYP.)
STATE ROUTE 22
BELLAMY ROAD
TYPICAL LIMIT OF WORK
PC = 13026+05.1
L=143.56'
R=824.38'
Δ=9°58'40"
PT = 13027+48.7
PC = 13028+24.9
L=319.74'
R=1500.00'
Δ=12°12'48"
PT = 13031+44.6
PC = 13035+53.0
PT = 13036+09.6
L=56.60'
R=100.00'
Δ=32°25'50"
PC = 13036+17.9
L=41.23'
R=100.00'
Δ=23°37'33"
PT = 13036+59.1
L=77.65'
R=100.00'
Δ=44°29'32"
PC = 13037+40.9
PT = 13038+18.5
MATCH LINE STA. 13025+00
MATCH LINE STA. 13028+00
LANDS N/F OF DAVID C. & SUZANNA L. CHAPLIN TM# 50.-1-15.6
LANDS N/F OF MICHAEL & GAIL DONALDSON TM# 50.-1-13
LANDS N/F OF MICHAEL & GAIL DONALDSON TM# 50.-1-15.4
LANDS N/F OF MICHAEL & GAIL DONALDSON TM# 50.-1-15.3
LANDS N/F OF MICHAEL S. & TRINIDAD M. MARTIN TM# 51.13-1-16
LANDS N/F OF MICHAEL S. & TRINIDAD M. MARTIN TM# 51.13-1-17
LANDS N/F OF CHRISTOPHER G. SCOTT & LAUREN E. LIPKA TM# 51.13-1-18.1
LANDS N/F OF LESLIE H. & SHEILA M. CHAPLIN TM# 51.13-1-19.1
LANDS N/F OF THERESA A. STEVENS TM# 51.13-1-20
LANDS N/F OF XIAO LAN ZHANG TM# 51.13-1-22
LANDS N/F OF ROBERT & SHIRLEY BELDEN TM# 51.13-1-24
LANDS N/F OF LEOLA M. McKEE & KIM KINGSLEY TM# 51.17-2-11
LANDS N/F OF CLAYTON T. SMITH TM# 51.17-2-13
LANDS N/F OF THOMAS TREPANIER TM# 51.17-2-14
LANDS N/F OF NANCY BULLAS TM# 51.17-2-15.1
LANDS N/F OF NATIONAL GRID TM# 51.17-4-1
LANDS N/F OF STEVEN G. & LINDA TAMA CRUMLEY TM# 51.17-4-4
LANDS N/F OF DAVID E. BYRNE TM# 51.13-4-3
LANDS N/F OF MARK E. ROCK TM# 51.13-4-2
LANDS N/F OF THOMAS E. ROCK TM# 51.13-4-1
LANDS N/F OF JOHN C. DALY, JR. TM# 51.17-3-4
LANDS N/F OF WILLIAM M. & PAULINE MANELL TM# 51.17-3-3
LANDS N/F OF ROY J. WOLCOTT TM# 51.17-3-2
LANDS N/F OF WALTER J. BOZELL TM# 51.17-3-5
ROAD R.O.W. & BOUNDARY
FIBER MARK
MHSA / 5 FT AG TF:106.9
SOFT AG
UNABLE TO FIELD VERIFY CONNECTION
"VISIT THE SKENEANDOAH MUSEUM" WHITEHALL, NY
"WATER FRONT (ARROW) "BUSINESS DISTRICT" (ARROW) "MUSEUM & THEATER"
"VILLAGE SPEED LIMIT 35"
"PEDESTRIAN CROSSING" (SYM.)
"AMISH CROSSING" (SYM.)
"ELKS CLUB" (SYM.)
"STATE ROUTE 22 "BELLAMY" (SYM.)
UNKNOWN TERMINUS
UNKNOWN SIZE/TYPE
8" CAST IRON
10" HDPE
8" PIPE
24" HDPE
15" HDPE
24" CMP
INV:96.8
INV:96.9
INV:96.1
INV:101.2
INV:99.9
INV:104.6
INV:97.1
INV:98.1
INV:98.2
INV:102.5
TF:101.9
TF:106.9
TF:104.6
TF:104.2
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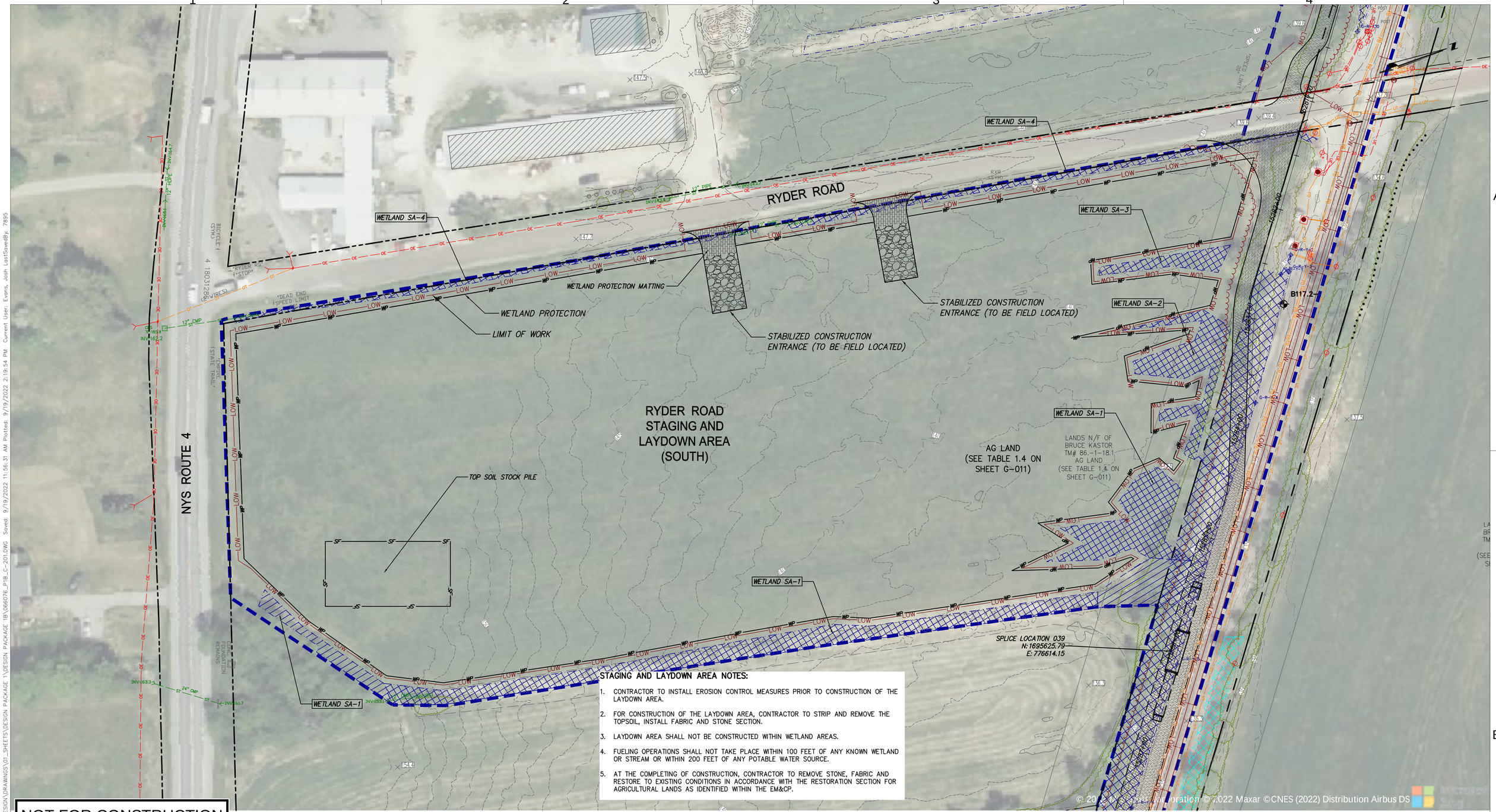
RYDER ROAD
NYS ROUTE 4
WETLAND SA-4
WETLAND SA-3
WETLAND SA-2
WETLAND SA-1
WETLAND PROTECTION MATTING
WETLAND PROTECTION
LIMIT OF WORK
STABILIZED CONSTRUCTION ENTRANCE (TO BE FIELD LOCATED)
STABILIZED CONSTRUCTION ENTRANCE (TO BE FIELD LOCATED)
RYDER ROAD STAGING AND LAYDOWN AREA (SOUTH)
TOP SOIL STOCK PILE
AG LAND (SEE TABLE 1.4 ON SHEET G-011)
LANDS N/F OF BRUCE KASTOR TM# 86.-1-18.1 AG LAND (SEE TABLE 1.4 ON SHEET G-011)
SPLICE LOCATION 039
N:1695625.79
E:776614.15
B117.2
BICYCLE (SYM)
'RYDER RD' 'STOP'
'DEAD END' 'SPEED LIMIT'
'EMPIRE STATE TRAIL'
FOUNDATION REMAINS
12" CMP
24" CMP
12" PIPE
12" PIPE
INV162.2
INV161.7
INV163.3
INV158.1
INV161.9
INV164.7
INV166.1
INV163.1
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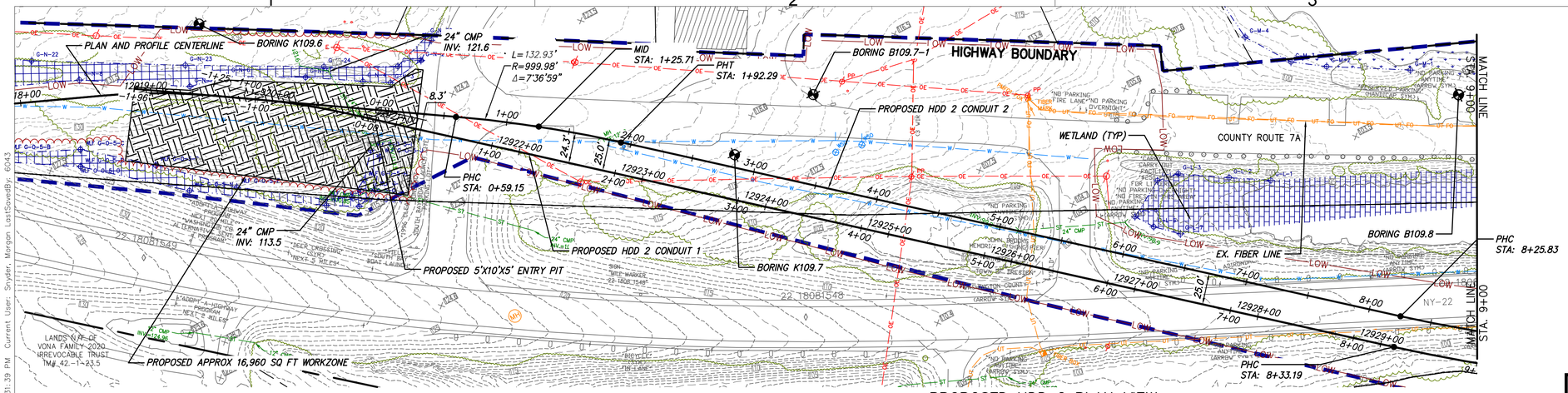
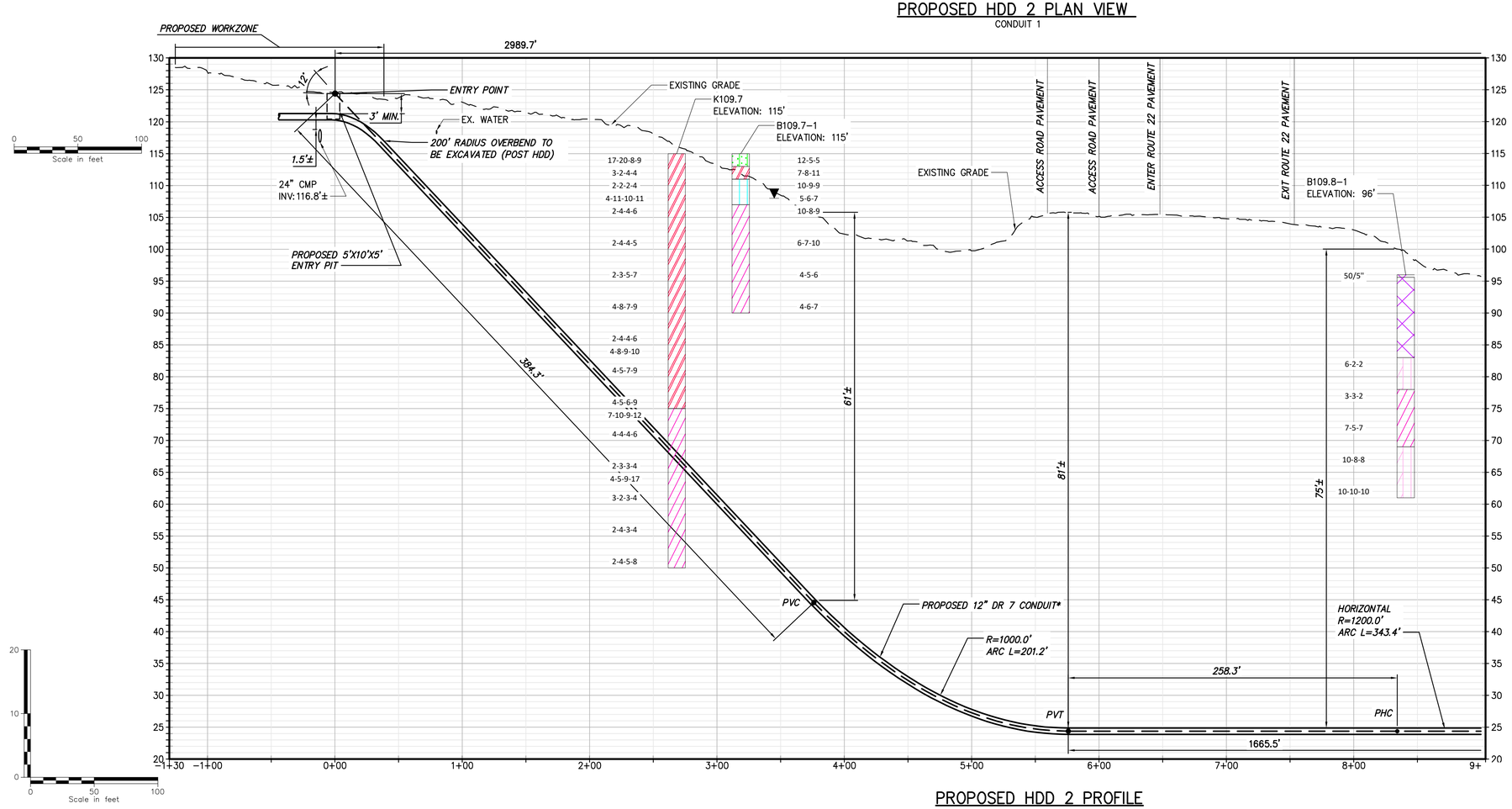


PROPOSED HDD 2 PLAN VIEW

CONDUIT 1



PROPOSED HDD 2 PROFILE

CONDUIT 1

* HDD2 CONSISTS OF (2) HVDC ELECTRICAL TRANSMISSION CABLES HOUSED IN INDIVIDUAL 12" HDPE DR 7 IPS CASINGS

A THIRD 3" DR 7 CASING WILL BE BUNDLED WITH ONE OF THE 12" HDPE DR 7 IPS FOR A TELECOMMUNICATIONS LINE.

NOTE:

1) HDD SUBCONTRACTOR TO FIELD VERIFY THE WATER PIPE AND HYDRANT WATER PIPE LOCATION TO CHECK FOR INTERFERENCE.
2) RECOMMEND INTERSECTING BORE METHOD BE USED TO REDUCE DRILLING FLUID PRESSURES AT THE EAST END OF THE HDD ALIGNMENT.
3) IT IS EXPECTED THAT BALLASTING OR USE OF ROLLERS WILL BE REQUIRED.
4) BORES AND BORE HATCHING IN PROFILE IS NOT CLEARLY LEGIBLE DUE TO THE CLOSE PROXIMITY OF THE MULTIPLE BORES AT 50 SCALE. USERS MUST CONSULT THE ACTUAL BORE LOGS AND REPORTS FOR CLARIFICATION AND OR INTERPRETATION.

NOT FOR CONSTRUCTION
FOR EM&CP PERMIT ONLY

BORING LOG STRIP LEGEND

B101

Blow Counts per 6" =10-10-10

Recovery %/RQD % =95%/90%

11000 =UCS

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

CHA
III Winners Circle, PO Box 5269
Albany, NY 12205-0269
518.453.4500 . www.chacompanies.com

STATE OF NEW YORK · STREET O'DONNELL · 087450 · LICENSED PROFESSIONAL ENGINEER
9/18/2022

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.

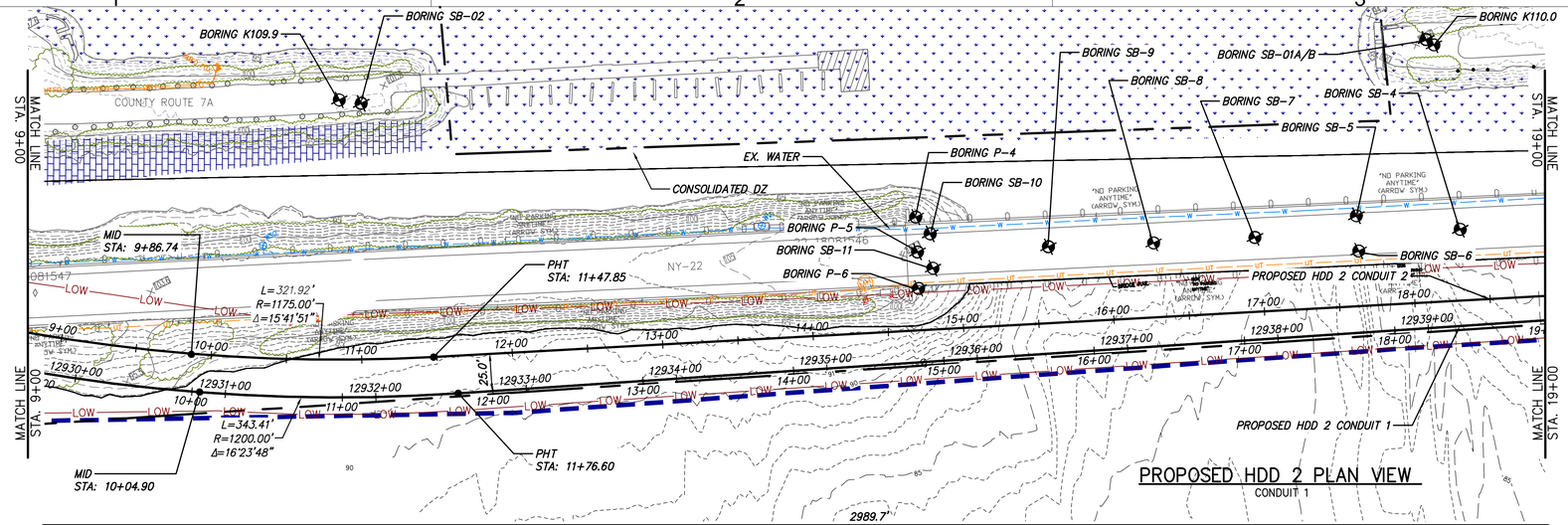
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
0	09/21/2022	FINAL EM&CP SUBMISSION	MCS	JEO

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 2 - ROUTE 22: DRESDEN - WHITEHALL
PROPOSED HDD PLAN AND PROFILE - HDD 2
SOUTH BAY CROSSING, CONDUIT 1
WHITEHALL, WASHINGTON COUNTY, NY

DRAWN BY: MCS DESIGNED BY: MB APPROVED BY: JEO

KIEWIT PROJECT NO.	21162
CHA PROJECT NO.	066076
DRAWING NO.	C-301
SCALE	AS NOTED
DATE	09/21/2022
REV. NO.	X
SH.NO.	XXX OF XXX

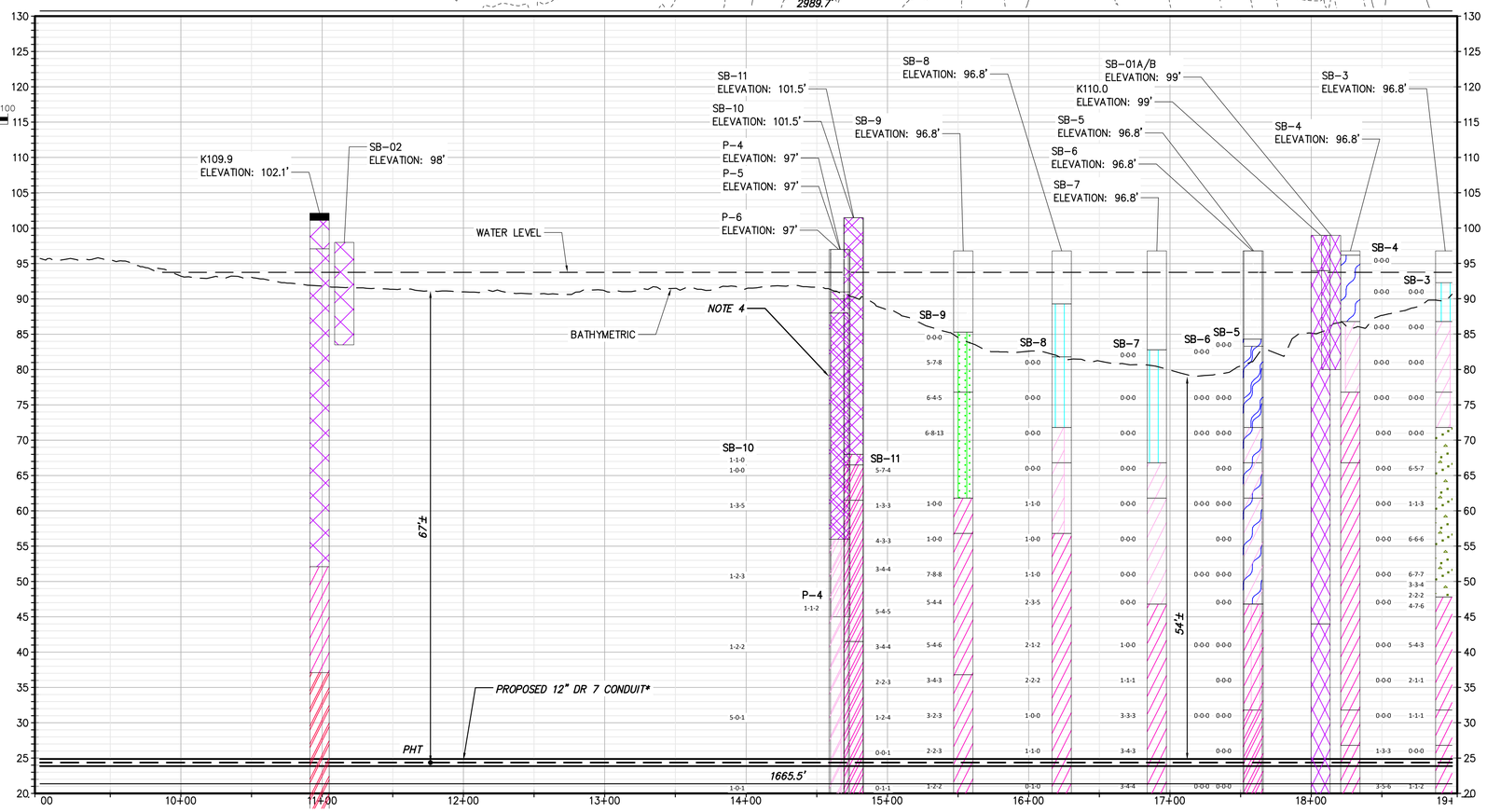
File: \\CHA-LLP.COM\PROJ\PROJECTS\ANY\K6\066076.000\09_DESIGN\DRAWINGS\01_SHEETS\DESIGN PACKAGE 1\DESIGN PACKAGE 1B\066076_P1B - C-301.DWG Saved: 9/18/2022 4:18:36 PM Plotted: 9/18/2022 4:31:39 PM Current User: Snyder, Morgan LastSavedBy: 6043



PROPOSED HDD 2 PLAN VIEW

CONDUIT 1

Scale in feet: 0 50 100



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Recovery %/RQD % =95%/90%

11000 =UCS

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
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9/18/2022

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No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
0	09/21/2022	FINAL EM&CP SUBMISSION	MCS	JEO

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 2 - ROUTE 22: DRESDEN - WHITEHALL
PROPOSED HDD PLAN AND PROFILE - HDD 2
SOUTH BAY CROSSING, CONDUIT 1
WHITEHALL, WASHINGTON COUNTY, NY

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. **C-301.1**

DRAWN BY: MCS | DESIGNED BY: MB | APPROVED BY: JEO | SCALE AS NOTED | DATE 09/21/2022 | REV. NO. X | SH.NO. XXX OF XXX

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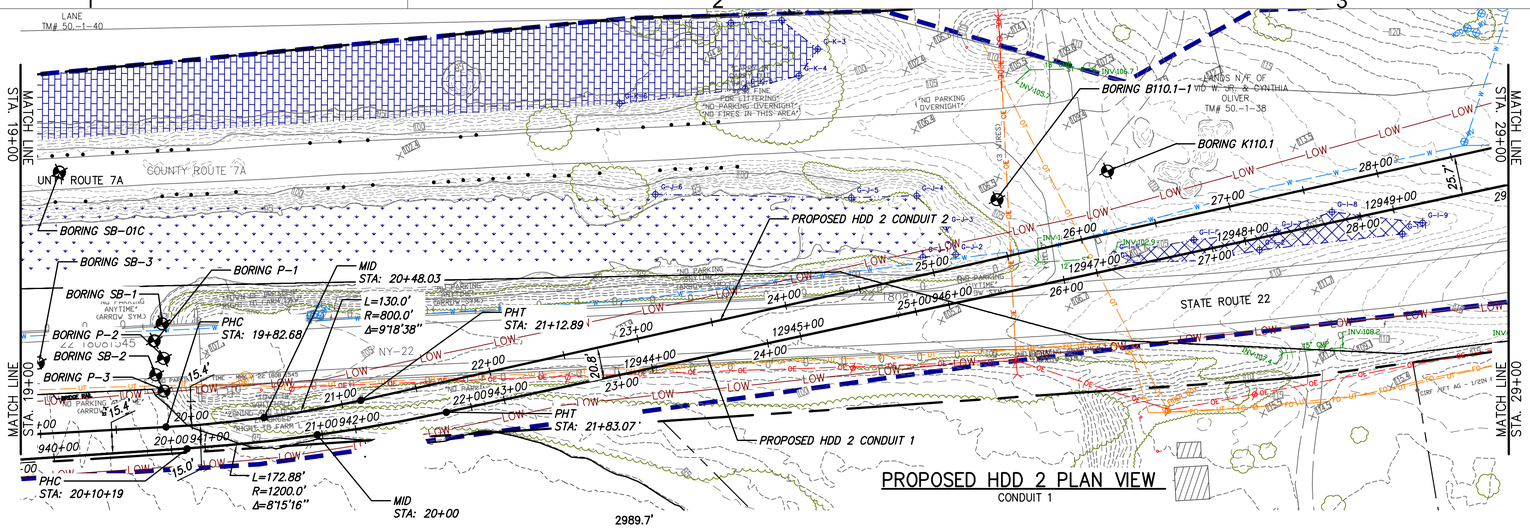
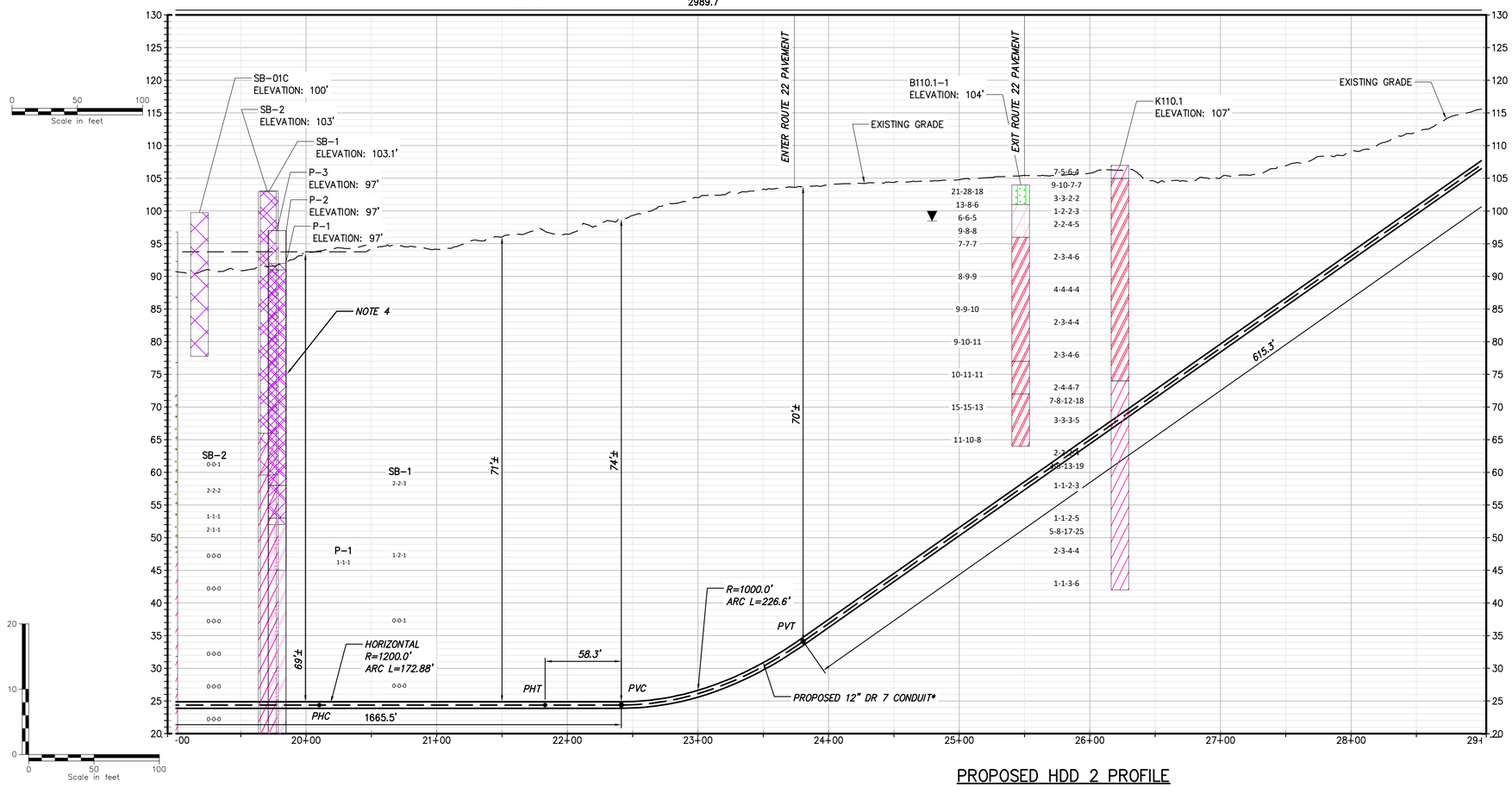


PROPOSED HDD 2 PLAN VIEW

CONDUIT 1



PROPOSED HDD 2 PROFILE

CONDUIT 1

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A THIRD 3" DR 7 CASING WILL BE BUNDLED WITH ONE OF THE 12" HDPE DR 7 IPS FOR A TELECOMMUNICATIONS LINE.

NOTE:

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3) IT IS EXPECTED THAT BALLASTING OR USE OF ROLLERS WILL BE REQUIRED.
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BORING LOG STRIP LEGEND

B101

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Recovery %/RQD % =95%/90%

11000 =UCS

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USGS 708	Gneiss
USGS 718	Granite 1
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Water Table	Water Table during drilling
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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 2 - ROUTE 22: DRESDEN - WHITEHALL
PROPOSED HDD PLAN AND PROFILE - HDD 2
SOUTH BAY CROSSING, CONDUIT 1
WHITEHALL, WASHINGTON COUNTY, NY

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. **C-301.2**

DRAWN BY: MCS | DESIGNED BY: MB | APPROVED BY: JEO | SCALE AS NOTED | REV. NO. X | DATE 09/21/2022 | SH.NO. XXX OF XXX

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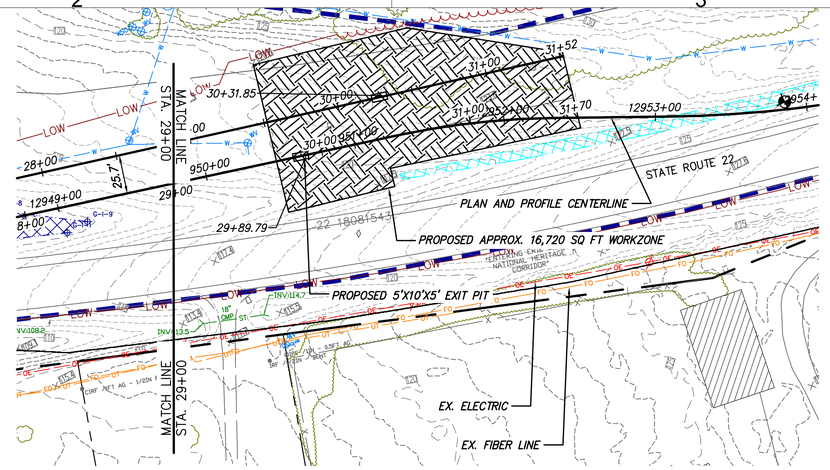
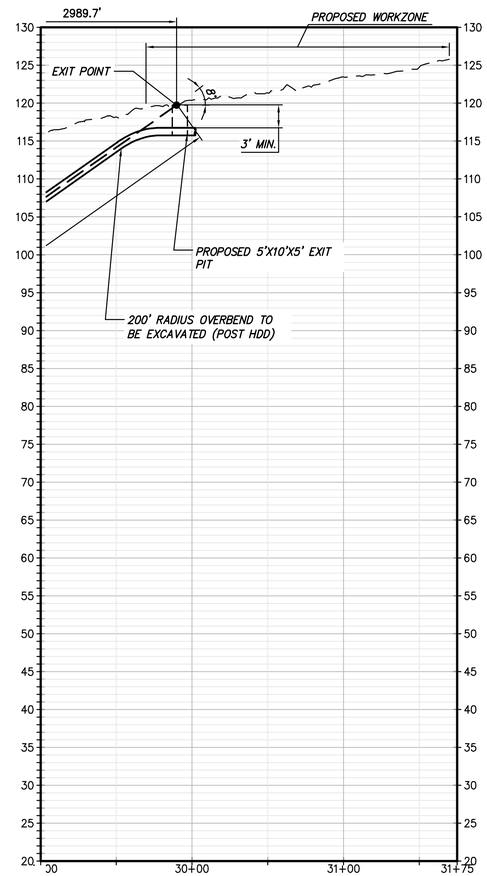


PROPOSED HDD 2 PLAN VIEW

CONDUIT 1



PROPOSED HDD 2 PROFILE

CONDUIT 1

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0 50 100
Scale in feet

0 50 100
Scale in feet

20 10 0

BORING LOG STRIP LEGEND

B101

Blow Counts per 6" =10-10-10

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11000 =UCS

Legend		
	ASPHALT	Asphalt
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	CH-MH	SILTY Fat CLAY
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	Fill	Fill
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	ML	SILT
	OH	ORGANIC Fat CLAY
	OL	ORGANIC Lean CLAY
	OL/OH	ORGANIC SOIL
	PT	PEAT
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	SC	CLAYEY SAND
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	USGS 702	Quartzite
	USGS 705	Schist
	USGS 705	Schist
	USGS 708	Gneiss
	USGS 708	Gneiss
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	Water	Water
	Weathered Rock	Undefined
▼	Water Table	Water Table during drilling
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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 2 - ROUTE 22: DRESDEN - WHITEHALL
PROPOSED HDD PLAN AND PROFILE - HDD 2
SOUTH BAY CROSSING, CONDUIT 1
WHITEHALL, WASHINGTON COUNTY, NY

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. **C-301.3**

DRAWN BY: MCS | DESIGNED BY: MB | APPROVED BY: JEO | SCALE AS NOTED | DATE 09/21/2022 | REV. NO. X | SH.NO. XXX OF XXX

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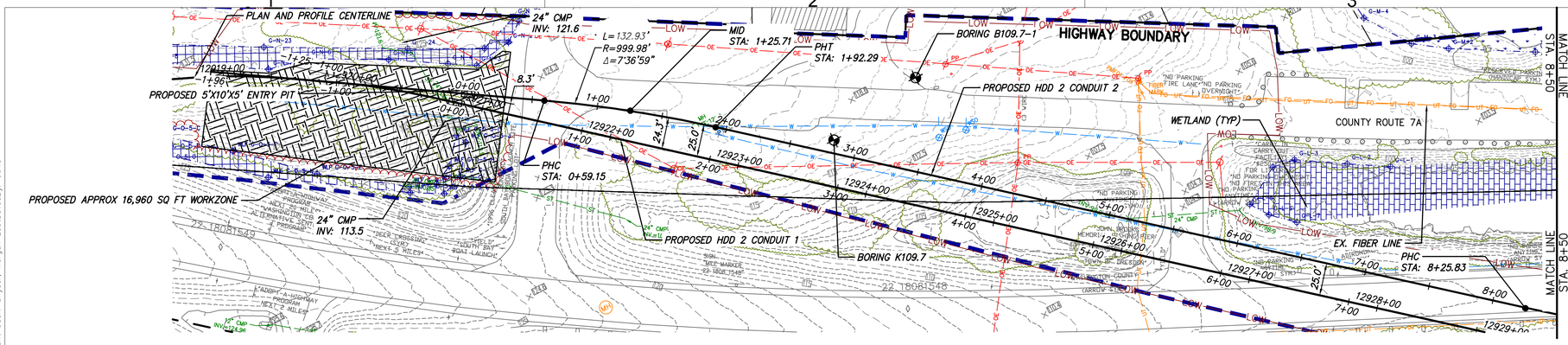

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BORING LOG STRIP LEGEND

B101

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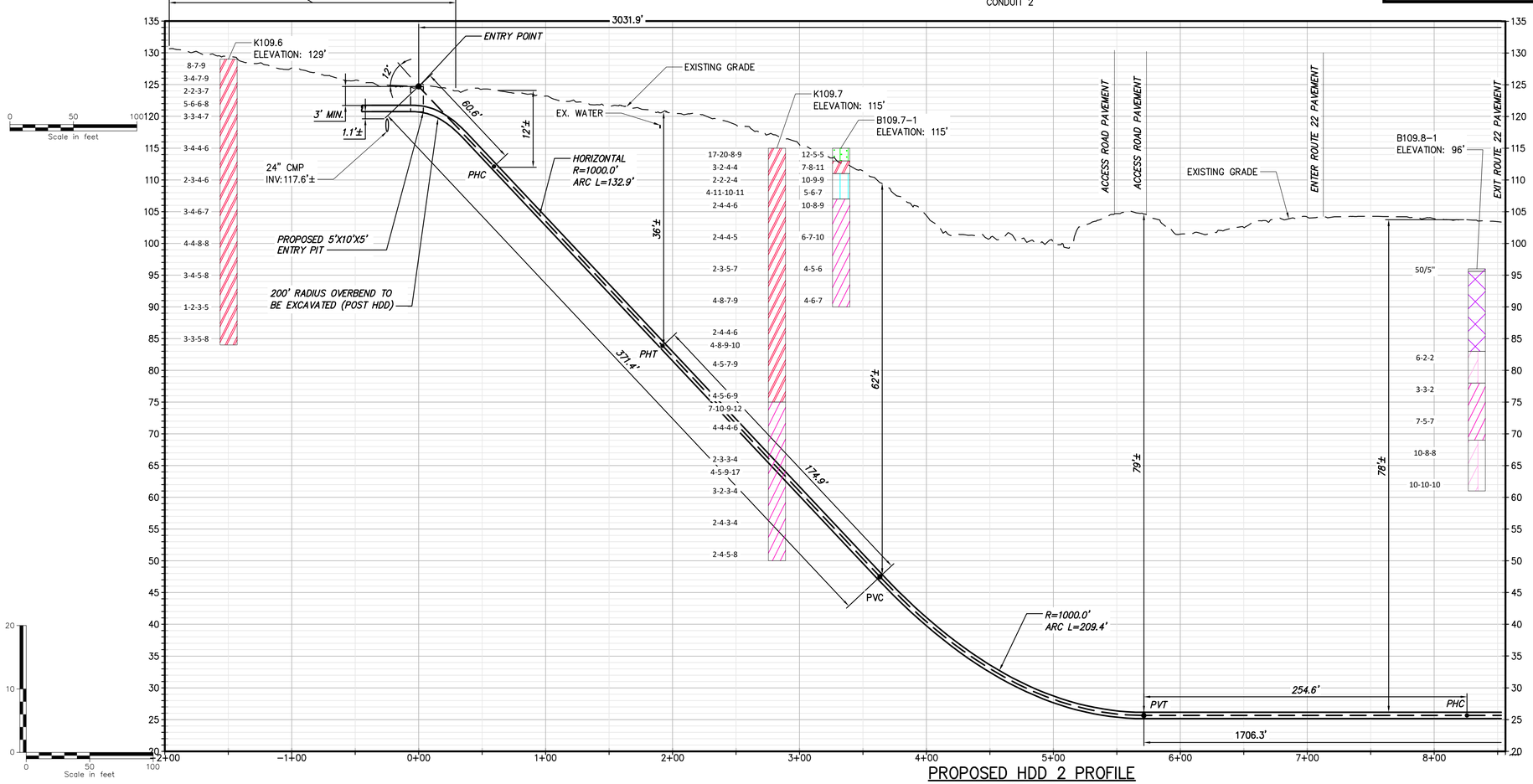
Recovery %/RQD % =95%/90%

11000 =UCS

PROPOSED HDD 2 PLAN VIEW

CONDUIT 2



PROPOSED HDD 2 PROFILE

CONDUIT 2

Legend		
	ASPHALT	Asphalt
	Bedrock	Bedrock
	Boulder	Boulder
	CH	Fat CLAY
	CH-MH	SILTY Fat CLAY
	CL	Lean CLAY
	CL-ML	SILTY CLAY
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	Fill	Fill
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9/18/2022

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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 2 - ROUTE 22: DRESDEN - WHITEHALL
PROPOSED HDD PLAN AND PROFILE - HDD 2
SOUTH BAY CROSSING, CONDUIT 2
WHITEHALL, WASHINGTON COUNTY, NY

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. **C-301A**

DRAWN BY: MCS | DESIGNED BY: MB | APPROVED BY: JEO | SCALE AS NOTED | REV. NO. X | DATE 09/21/2022 | SH.NO. XXX OF XXX

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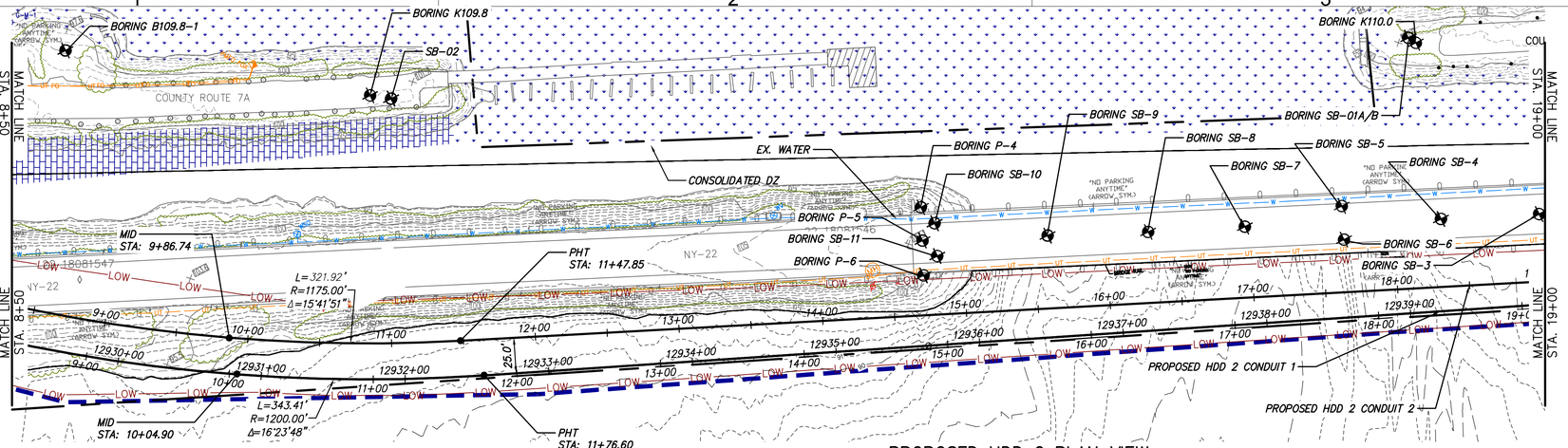
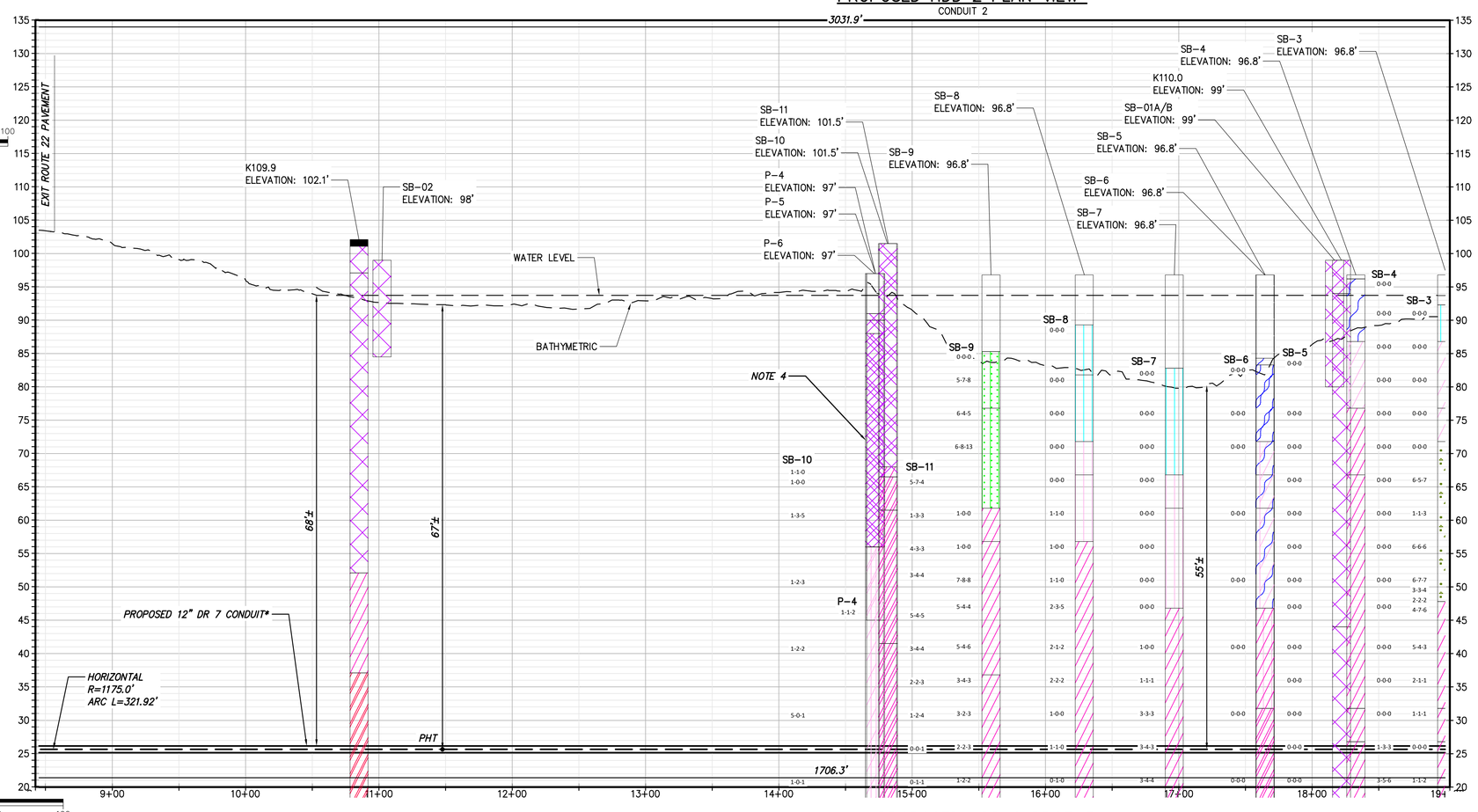


PROPOSED HDD 2 PLAN VIEW

CONDUIT 2



PROPOSED HDD 2 PROFILE

CONDUIT 2

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9/18/2022

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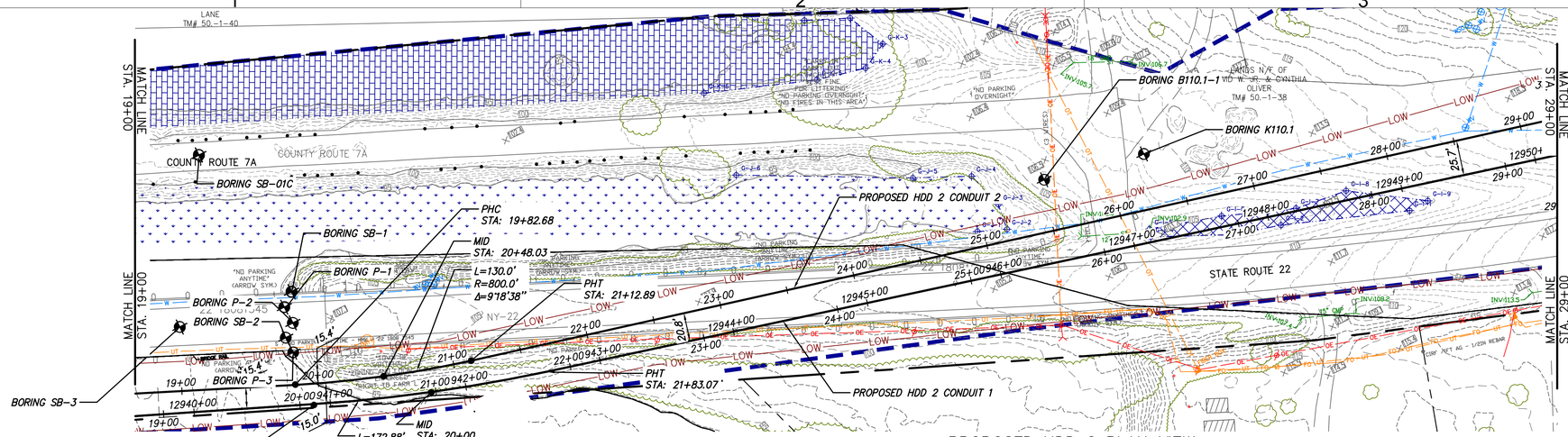
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
0	09/21/2022	FINAL EM&CP SUBMISSION	MCS	JEO

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 2 - ROUTE 22: DRESDEN - WHITEHALL
PROPOSED HDD PLAN AND PROFILE - HDD 2
SOUTH BAY CROSSING, CONDUIT 2
WHITEHALL, WASHINGTON COUNTY, NY

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. **C-301A.1**

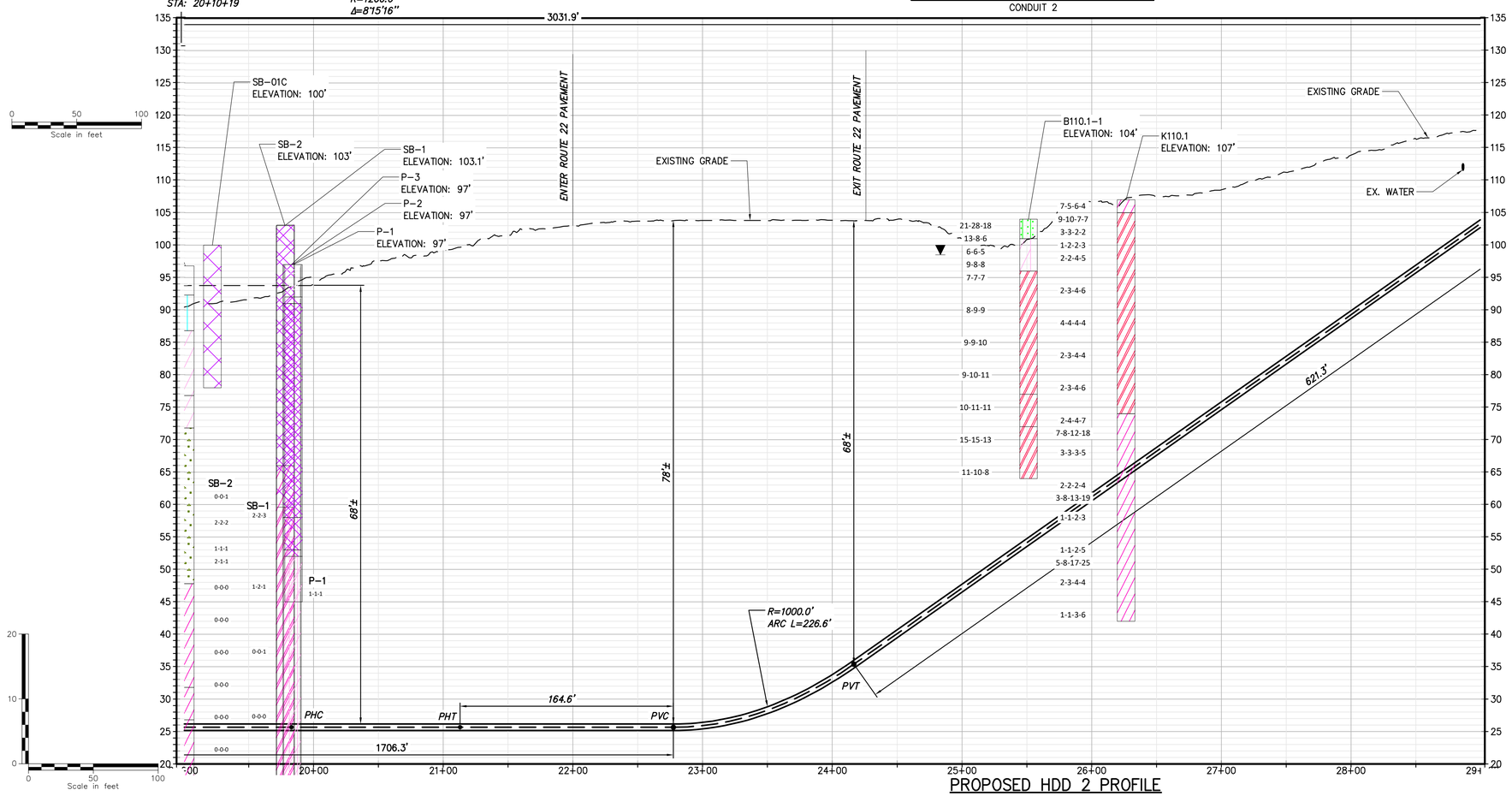
DRAWN BY: MCS | DESIGNED BY: MB | APPROVED BY: JEO | SCALE AS NOTED | REV. NO. X | DATE 09/21/2022 | SH.NO. XXX OF XXX

File: \\CHA-LLP.COM\PROJ\PROJECTS\ANY\K6\066076.000\09_DESIGN\DRAWINGS\01_SHEETS\DESIGN PACKAGE 1\DESIGN PACKAGE 1B\066076_P1B - C-301 - C-301A.DWG Saved: 9/18/2022 4:18:36 PM Plotted: 9/18/2022 4:47:13 PM Current User: Snyder, Morgan LastSavedBy: 6043



PROPOSED HDD 2 PLAN VIEW

CONDUIT 2



PROPOSED HDD 2 PROFILE

CONDUIT 2

* HDD2 CONSISTS OF (2) HVDC ELECTRICAL TRANSMISSION CABLES HOUSED IN INDIVIDUAL 12" HDPE DR 7 IPS CASINGS

A THIRD 3" DR 7 CASING WILL BE BUNDLED WITH ONE OF THE 12" HDPE DR 7 IPS FOR A TELECOMMUNICATIONS LINE.

NOTE:

1) HDD SUBCONTRACTOR TO FIELD VERIFY THE WATER PIPE AND HYDRANT WATER PIPE LOCATION TO CHECK FOR INTERFERENCE.
2) RECOMMEND INTERSECTING BORE METHOD BE USED TO REDUCE DRILLING FLUID PRESSURES AT THE EAST END OF THE HDD ALIGNMENT.
3) IT IS EXPECTED THAT BALLASTING OR USE OF ROLLERS WILL BE REQUIRED.
4) BORES AND BORE HATCHING IN PROFILE IS NOT CLEARLY LEGIBLE DUE TO THE CLOSE PROXIMITY OF THE MULTIPLE BORES AT 50 SCALE. USERS MUST CONSULT THE ACTUAL BORE LOGS AND REPORTS FOR CLARIFICATION AND OR INTERPRETATION.

NOT FOR CONSTRUCTION
FOR EM&CP PERMIT ONLY

BORING LOG STRIP LEGEND

B101

Blow Counts per 6" =10-10-10

Recovery %/RQD % =95%/90%

11000 =UCS

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

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9/18/2022

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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 2 - ROUTE 22: DRESDEN - WHITEHALL
PROPOSED HDD PLAN AND PROFILE - HDD 2
SOUTH BAY CROSSING, CONDUIT 2
WHITEHALL, WASHINGTON COUNTY, NY

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. **C-301A.2**

DRAWN BY: MCS | DESIGNED BY: MB | APPROVED BY: JEO | SCALE AS NOTED | REV. NO. X | DATE 09/21/2022 | SH.NO. XXX OF XXX

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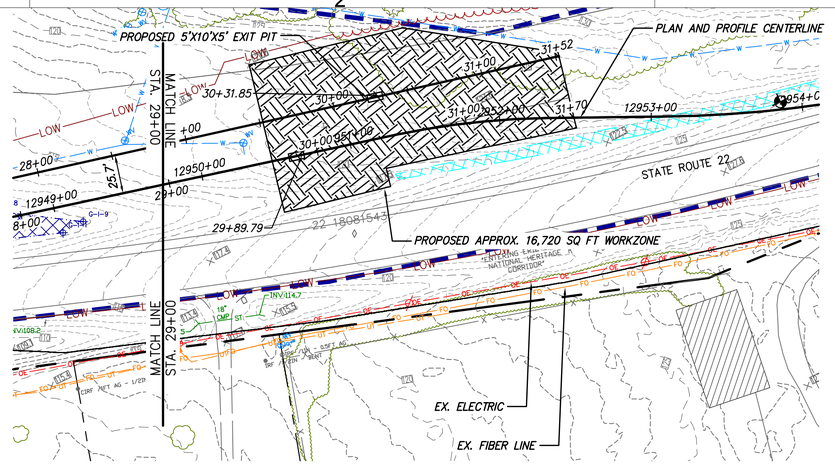
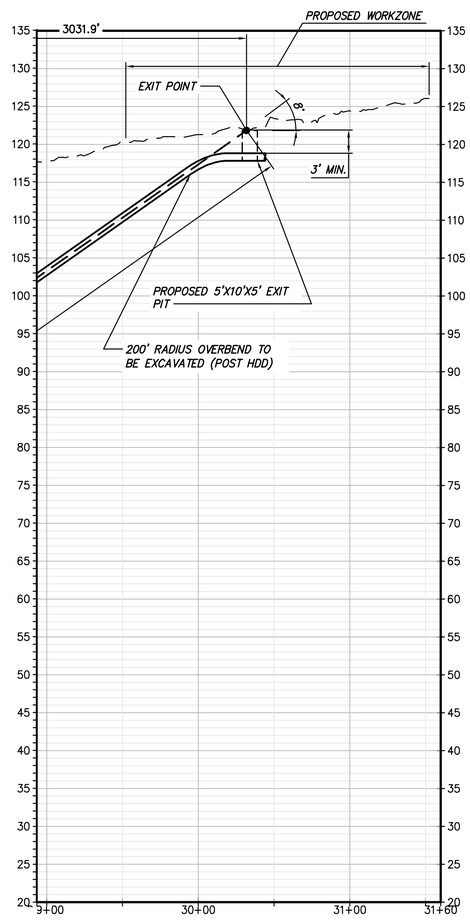


PROPOSED HDD 2 PLAN VIEW

CONDUIT 2



PROPOSED HDD 2 PROFILE

CONDUIT 2

0 50 100
Scale in feet

0 50 100
Scale in feet

20
10
0

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	CL-ML	SILTY CLAY
	CONCRETE	Concrete
	Fill	Fill
	GC	CLAYEY GRAVEL
	GC-GM	SILTY CLAYEY GRAVEL
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	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
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	SW-SM	Well Graded SAND with SILT
	Topsoil	Topsoil
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	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

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9/18/2022

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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 2 - ROUTE 22: DRESDEN - WHITEHALL
PROPOSED HDD PLAN AND PROFILE - HDD 2
SOUTH BAY CROSSING, CONDUIT 2
WHITEHALL, WASHINGTON COUNTY, NY

DRAWN BY: MCS DESIGNED BY: MB APPROVED BY: JEO

SCALE AS NOTED REV. NO. X

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. C-301A.3
DATE 09/21/2022
SH.NO. XXX OF XXX

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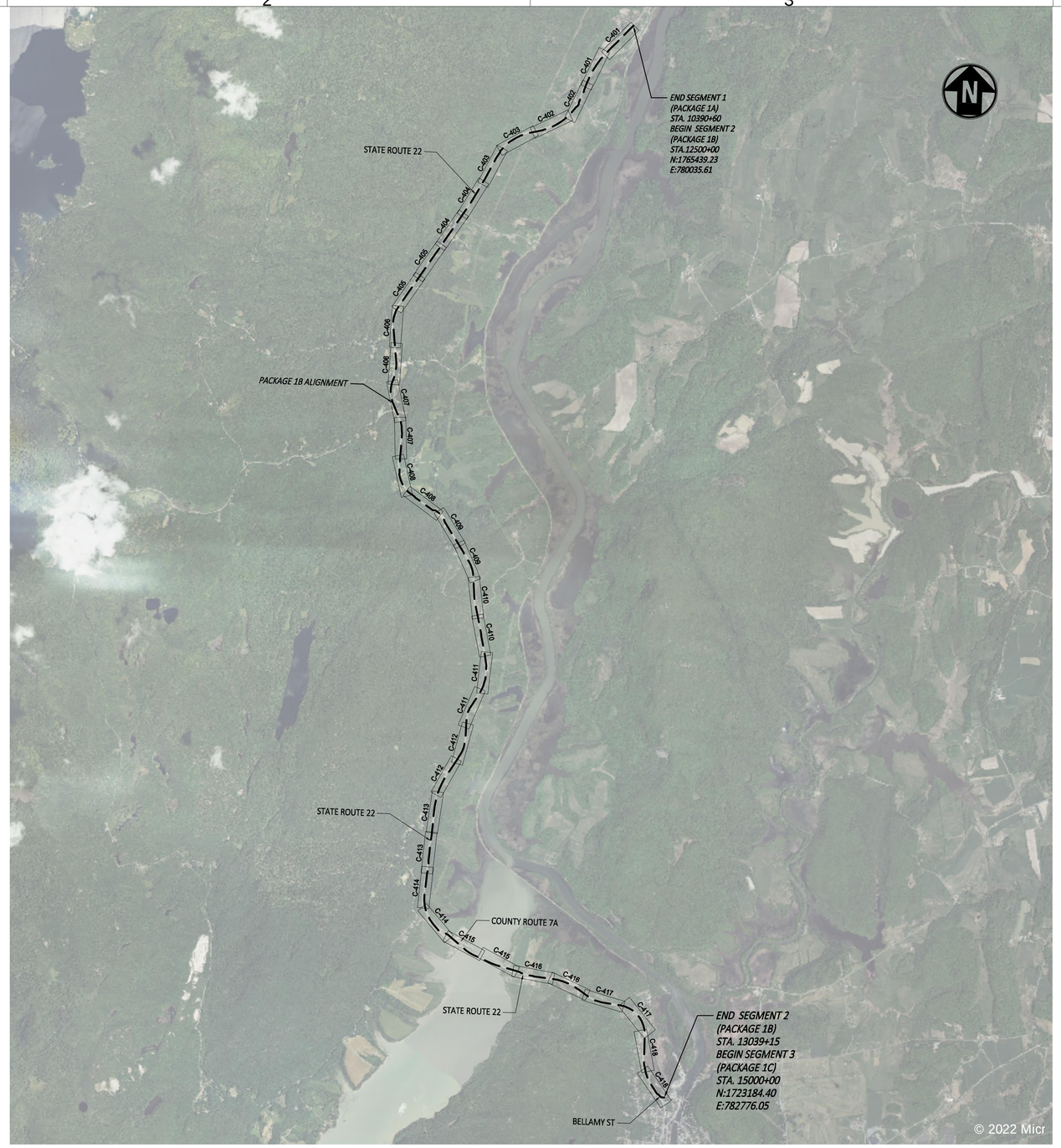

E&S KEY MAP
SCALE: 1" = 2500'

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No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
0	09/21/2022	FINAL EM&CP SUBMISSION	JM	JR

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 2 - ROUTE 22: DRESDEN - WHITEHALL
KEYPLAN E&S

KIEWIT PROJECT NO.	21162
CHA PROJECT NO.	066076
DRAWING NO.	C-400

DRAWN BY: JTM | DESIGNED BY: JTM | APPROVED BY: JPR | SCALE AS NOTED | REV. NO. X | DATE 09/21/2022 | SH.NO. XXX OF XXX

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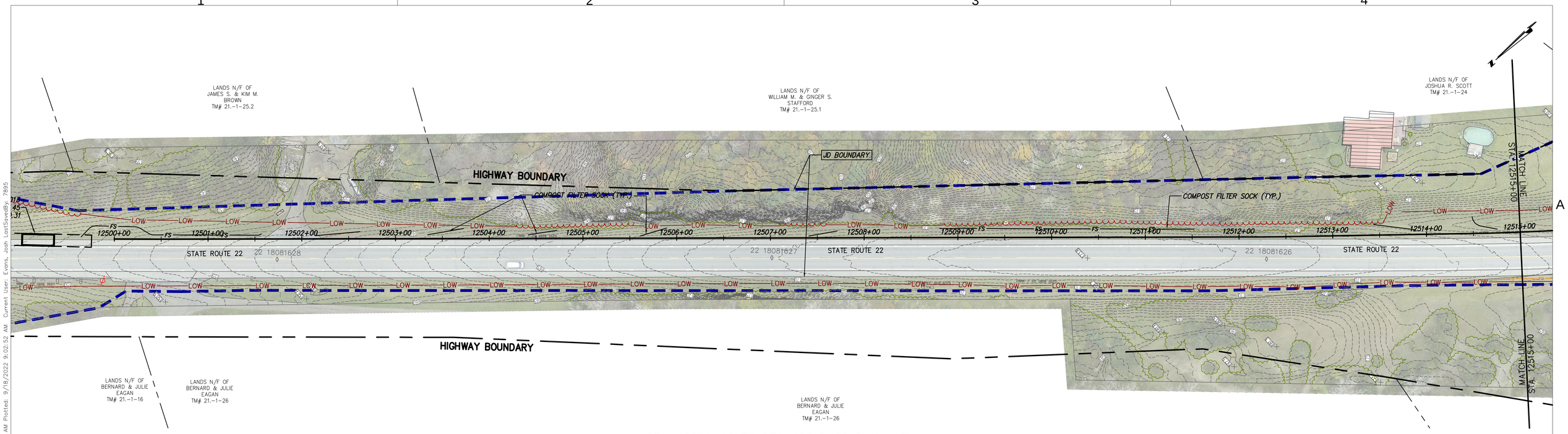
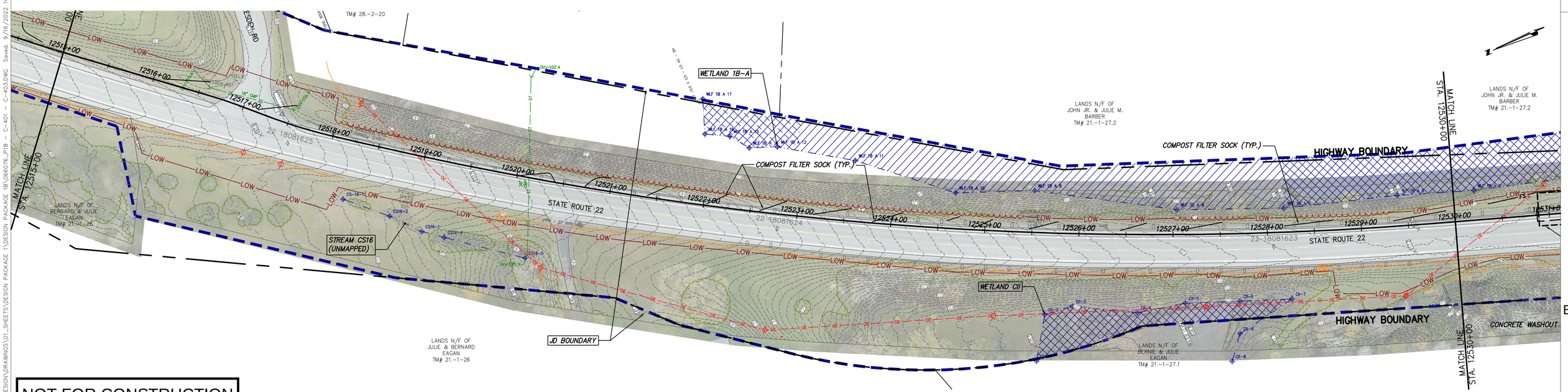


STA. 12500+00 TO STA. 12515+00 PLAN VIEW

SCALE: 1" = 50'



STA. 12515+00 TO STA. 12530+00 PLAN VIEW

SCALE: 1" = 50'

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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 2 - ROUTE 22: DRESDEN - WHITEHALL
STA. 12500+00 TO STA. 12530+00 EROSION AND SEDIMENT CONTROL PLAN

KIEWIT PROJECT NO.	21162
CHA PROJECT NO.	066076
DRAWING NO.	C-401

DRAWN BY: JJE | DESIGNED BY: JTM | APPROVED BY: JPR | SCALE: AS NOTED | REV. NO. X | DATE: 09/21/2022 | SH.NO. XXX OF XXX

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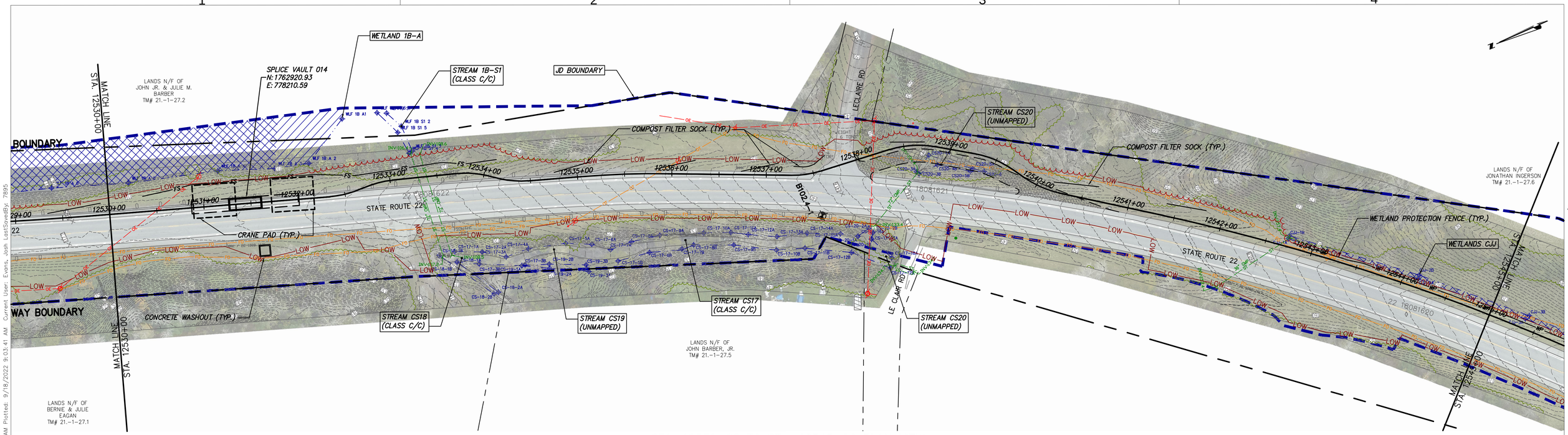
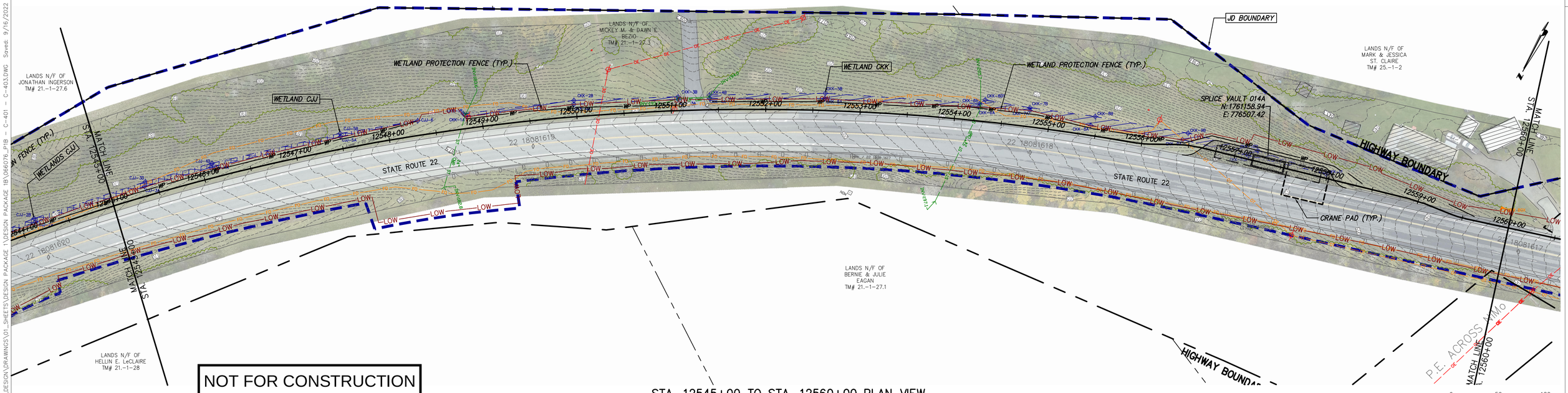


STA. 12530+00 TO STA. 12545+00 PLAN VIEW

SCALE: 1" = 50'



STA. 12545+00 TO STA. 12560+00 PLAN VIEW

SCALE: 1" = 50'

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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 2 - ROUTE 22: DRESDEN - WHITEHALL
STA. 12530+00 TO STA. 12560+00 EROSION AND SEDIMENT CONTROL PLAN

DRAWN BY: JJE | DESIGNED BY: JTM | APPROVED BY: JPR | SCALE: AS NOTED | REV. NO. X | DATE: 09/21/2022 | SH.NO. XXX OF XXX

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. C-402

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