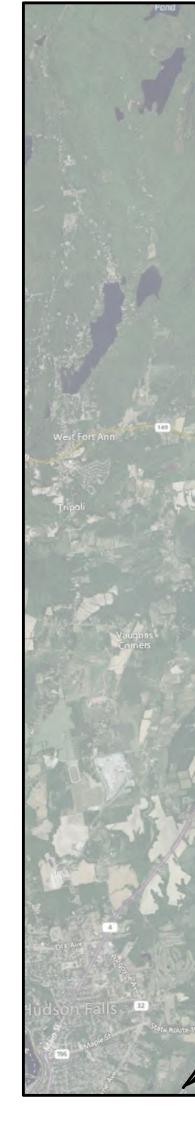
APPENDIX C: PLAN & PROFILE DRAWINGS, EROSION AND SEDIMENT CONTROL PLANS, AND MAINTENANCE AND PROTECTION OF TRAFFIC PLANS CASE 10-T-0139

CHAMPLAIN HUDSON POWER EXPRESS SEGMENT 3 - PACKAGE 2 - FORT ANN TO KINGSBURY WASHINGTON COUNTY, NEW YORK FINAL EM&CP SUBMISSION (DECEMBER 19, 2022)









- END SEGMENT 3 KINGSBURY CANADIAN PACIFIC RAILWAY CANADIAN MAINLINE MP 57.38 (STA. 20801+71) LAT:43°17'43"N LONG:73°33'13"W

SCALE: 1" = 5000'



- START SEGMENT 3

CANADIAN MAINLINH

(STA. 20000+00) LAT:43°28'37"N LONG:73°25'46"V

CANADIAN PACIFIC RAILWA

FORTANN

MP 72.42

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.

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12/16/2022	FINAL EM&CP SUBMISSION	JJE	JPR	
DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	DRA
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NOT FOR CONSTRUCTION FOR EM&CP PERMIT ONLY

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 3 - PACKAGE 2 - FORT ANN TO KINGSBURY
COVER SHEET

KIEWIT PROJECT NO. 21162 CHA PROJECT NO. 066076 DRAWING NO.

G-000

RAWN BY: JJE DESIGNED BY: JTM APPROVED BY: JPR REV. NO.

AS NOTED DATE

12/16/2022

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S-702	SPLICE VAULT ANCHOR & EMBED DETAILS
S-703	SPLICE VAULT DETAILS
S-711	FRP LINK BOX HANDHOLES
S-720	REINFORCING TRAY OVER UTILITIES
S-721	REINFORCING TRAY DETAILS
S-771	FRP COMMUNICATION HANDHOLES
ELECTRICAL PLANS	S
C-801	ABOVE GROUND MARKING DETAILS
C-802	TYPICAL VAULT CASING DETIALS
C-803	TYPICAL VAULT GROUDING DETAILS
C-807	MANHOLE MARKING DETAILS
C-808	TYPICAL OPEN PIT SPLICE CASING DETAILS
C-809	OPEN SPLICE GROUNDING DETAILS
C—811	STEEL SUPPORT DETAILS
COMMUNICATIONS	
C-852	ENCLOSED VAULT WITH FIBER OPTICS
C-853	OPEN VAULT WITH FIBER OPTIC HAND HOLE
C-854	FIBER OPTIC HAND HOLE DETAILS
C-855	FIBER OPTIC DIAGRAM
C-856	FIBER OPTIC SLACK ENCLOSURE

	No.	D. DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	DRA
ALIERED, THE ALIERING 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	12/16/2022	FINAL EM&CP SUBMISSION	JJE	JPR	
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 CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 3 - PACKAGE 2 - FORT ANN TO KINGSBURY
SHEET INDEX
 KIEWIT PROJECT NO.
21162
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 DRAWN BY:
 JJE
 DESIGNED BY: JTM
 APPROVED BY: JPR
 SCALE
REV. NO.
 AS NOTED
 DATE
 12/16/2022

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<u>GENERAL NOTES:</u>

- 1. THE PLANS SHOW SUBSURFACE STRUCTURES, ABOVE GROUND STRUCTURES AND/OR UTILITIES FROM FIELD LOCATION AND RECORD MAPPING, EXACT LOCATION OF WHICH MAY VARY FROM THE LOCATIONS INDICATED. IN PARTICULAR, THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATION OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY BE DIFFERENT FROM THAT SHOWN OR MAY NOT BE SHOWN, AND IT SHALL BE HIS RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK. 48 HOURS BEFORE YOU DIG, DRILL, OR BLAST, CALL U.F.P.O. 1–(800)–962–7962 TOLL FREE.
- 2. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED APPROVAL OF THE ENGINEER. CHANGES TO THE PLAN SHALL BE DONE IN ACCORDANCE WITH THE EM&CP SECTION 3.2.6.
- 3. THE CONTRACTOR SHALL RESTORE LAWNS, DRIVEWAYS, CULVERTS, SIGNS AND OTHER PUBLIC OR PRIVATE PROPERTY DAMAGED OR REMOVED TO AT LEAST AS GOOD A CONDITION AS BEFORE BEING DISTURBED AS DETERMINED BY THE ENGINEER.
- 4. THE CONTRACTOR AND/OR CERTIFICATE HOLDER SHALL BE RESPONSIBLE FOR OBTAINING AND INCURRING THE COST OF ALL CONSTRUCTION PERMITS, INSPECTIONS, CERTIFICATES, ETC. AND SHALL COMPLY WITH ALL REQUIRED PERMITS.
- 5. ALL WORK SHALL BE DONE IN STRICT COMPLIANCE WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES, STANDARDS, ORDINANCES, RULES, AND REGULATIONS.
- 6. ALL PROPOSED UTILITIES AND APPURTENANCES TO BE CONSTRUCTED IN COMPLIANCE WITH THE LOCAL MUNICIPALITIES' CODES AND REGULATIONS GOVERNING THE INSTALLATION OF SUCH UTILITIES.
- 7. THE ENGINEER RESERVES THE RIGHT TO EXAMINE ANY WORK DONE ON THIS PROJECT AT ANY TIME TO DETERMINE THE CONFORMANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS OF THIS PROJECT.
- 8. THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY LINE MONUMENTATION. ANY MONUMENTATION DISTURBED OR DESTROYED, AS JUDGED BY THE ENGINEER OR OWNER, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE UNDER THE SUPERVISION OF A NEW YORK STATE LICENSED LAND SURVEYOR.
- 9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE ALL PLAN SHEETS.
- 10. THE CONTRACTOR SHALL:
 - A. VERIFY ALL CONDITIONS IN THE FIELD PRIOR TO COMMENCEMENT OF
 - WORK AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES. B. EXAMINE THE SITE AND INCLUDE IN HIS WORK THE EFFECT OF ALL EXISTING CONDITIONS ON THE WORK.
 - C. PROVIDE AND INSTALL ALL MATERIALS AND PERFORM ALL WORK IN ACCORDANCE WITH RECOGNIZED GOOD STANDARD PRACTICE.
- 11. ALL TRENCH EXCAVATION AND ANY REQUIRED SHEETING AND SHORING SHALL BE DONE IN ACCORDANCE WITH THE LATEST REVISIONS OF NEW YORK STATE INDUSTRIAL CODE RULE 23 AND OSHA REGULATIONS FOR CONSTRUCTION. SHEET PILING SHALL BE DESIGNED AND SEALED BY A NEW YORK STATE PROFESSIONAL ENGINEER. WHERE WITHIN RAIL ROAD ROW, ANY EXCAVATION AND SHORING SHALL BE DESIGNED TO MINIMUM CP AND AREMA REQUIREMENTS.

- 12. CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF WORK IN CONFORMANCE WITH REFERENCE SECTION 4.3.2 DEWATERING METHODS IN THE EM&CP. CONTRACTOR SHALL MAINTAIN EXISTING SITE DRAINAGE PATTERNS THROUGHOUT CONSTRUCTION UNLESS OTHERWISE SHOWN ON THE PLANS.
- 13. MAINTAIN FLOW FOR ALL EXISTING UTILITIES.
- 14. ALL FRAMES AND COVER TO BE SET AT ELEVATIONS CONSISTENT WITH THE PROJECT DETAILS.
- 15. TEMPORARY PAVEMENT SHALL BE PLACED WITHIN 48 HOURS OF COMPLETION OF BACKFILL OPERATIONS WITHIN THE EXISTING PAVEMENT LIMITS.
- 16. CONTRACTOR SHALL MAINTAIN ALL TRAFFIC IN ALL AREAS IN ACCORDANCE WITH THE NYSDOT MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- 17. ALL EXCAVATIONS SHALL BE PROTECTED AT THE END OF EACH WORK DAY PER OSHA AND NYSDOT REQUIREMENTS.
- 18. WITHIN NYSDOT ROW ALL OPEN EXCAVATIONS TO BE PROTECTED BY CONCRETE BARRIERS OR BE COVERED BY A STEEL PLATE, 3/4" THICK MINIMUM. A SINGLE PLATE SHOULD COVER THE ENTIRE EXCAVATION AND HAVE ENOUGH BEARING ON SURROUNDING SURFACES TO SUPPORT A VEHICLE.
- 19. CONTRACTOR SHALL TAKE CARE TO PREVENT DAMAGE TO EXISTING UTILITIES. UTILITIES DAMAGED BY CONTRACTOR SHALL BE IMMEDIATELY REPAIRED BY CONTRACTOR AT THE CONTRACTOR'S EXPENSE. IF DURING EXCAVATION PREVIOUSLY DAMAGED UTILITIES ARE UNCOVERED, CONTRACTOR SHALL DOCUMENT THE DAMAGE AND REPORT DAMAGE TO THE APPROPRIATE OWNER.
- 20. DEPTH OF BURY FOR EXISTING CABLED UTILITIES FIBER / ELECTRICAL / TELECOM AND WATERLINES UNKNOWN. ASSUMED DEPTH OF BURY FOR CABLED UTILITIES IS 30" UNLESS OTHERWISE SHOWN. ASSUMED DEPTH OF BURY FOR WATERLINES IS 5' UNLESS OTHERWISE SHOWN.
- 21. CONTRACTOR TO COORDINATE ALL DRIVEWAY CROSSINGS WITH THE PROPERTY OWNERS PRIOR TO EXCAVATING. ACCESS TO ALL DRIVEWAYS FOR THE RESIDENTIAL AND COMMERCIAL PROPERTIES WILL NEED TO BE MAINTAINED DURING THE PROJECT. ALL EXCAVATIONS IN THE ENTRANCES/DRIVEWAYS WILL NEED TO BE BACKFILLED AT THE END OF EACH WORKDAY, OR STEEL PLATES SHALL BE INSTALLED TO ALLOW ACCESS DURING CONSTRUCTION. REFER TO THE EM&CP FOR EMERGENCY ACCESS MANAGEMENT PLAN.
- 22. ALL WORK WITHIN AGRICULTURAL LANDS WILL BE PERFORMED IN COMPLIANCE WITH APPLICABLE NEW YORK STATE DEPARTMENT OF AGRICULTURE AND MARKETS (NYSDAM) GUIDANCE INCLUDING "NYSDAM GUIDELINES FOR CONSTRUCTION MITIGATIONS FOR AGRICULTURAL LANDS IN AGRICULTURAL AREAS". RESTORATION WORK WILL FOLLOW APPLICABLE SECTIONS OF NYSDAM GUIDANCE "FERTILIZING LIME, AND SEEDING RECOMMENDATIONS FOR RESTORATION OF CONSTRUCTION PROJECTS ON FARMLAND IN NYS".
- 23. SERVICE CONNECTIONS TO BE FIELD LOCATED PRIOR TO CONSTRUCTION.
- 24. REFER TO EM&CP DOCUMENT FOR ADDITIONAL ITEMS FOR ALL GENERAL NOTES.
- 25. PVC/HDPE TRANSITION COUPLING LOCATION TO BE COORDINATED BETWEEN TRENCH AND HDD CONTRACTORS.



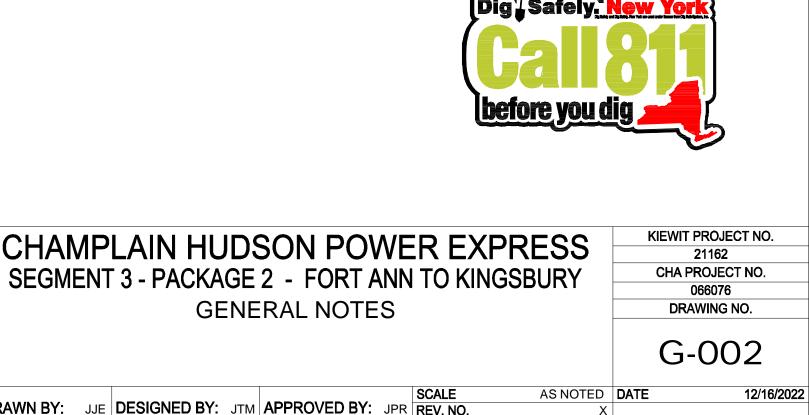




EROSION CONTROL NOTES

- 1. SEE C-400 SERIES OF SHEETS FOR EROSION AND SEDIMENT CONTROL SHEETS.
- 2. LAND DISTURBING ACTIVITIES SHALL NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN RECEIVED BY GOVERNING AUTHORITIES.
- 3. THE GENERAL CONTRACTOR SHALL STRICTLY ADHERE TO THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND FOLLOW THE EM&CP DOCUMENTS DURING CONSTRUCTION OPERATIONS.
- 4. NO LAND CLEARING OR GRADING SHALL BEGIN UNTIL ALL PERIMETER EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED. (WETLAND PROTECTION FENCE, SILT FENCE AND STABILIZED CONSTRUCTION ENTRANCE)
- 5. SITE DISTURBANCE SHALL NOT EXCEED FIVE (5) ACRES OF SOIL AT ANY ONE TIME WITHOUT PRIOR WRITTEN AUTHORIZATION FROM NYSDEC DIVISION OF WATER.
- 6. ALL EXPOSED AREAS SHALL BE SEEDED AND MULCHED AS SPECIFIED WITHIN 14 DAYS OF FINAL GRADING. FOR DISTURBED WETLAND AND SENSITIVE AREAS, AREA TO BE RESTORED IN ACCORDANCE WITH THE EM&CP SECTIONS 8.1 AND 13.
- 7. INACTIVE PORTIONS OF THE SITE ARE TO BE SEEDED AND MULCHED AS SPECIFIED WITHIN 14 DAYS. FOR DISTURBED WETLAND AND SENSITIVE AREAS, AREA TO BE RESTORED IN ACCORDANCE WITH THE EM&CP 8.1 AND 13.
- 8. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN (7) DAYS OR MORE FREQUENTLY IF REQUIRED. ALL MAINTENANCE REQUIRED BY INSPECTION SHALL COMMENCE WITHIN 24 HOURS AND BE COMPLETED WITHIN 48 HOURS OF REPORT.
- 9. THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE GENERAL CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE.
- 10. GENERAL CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
- 11. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY FOLLOWING SITE INSPECTION. THE SWPPP AND/OR ENVIRONMENTAL INSPECTOR HAS THE AUTHORITY TO REQUIRE ADDITIONAL EROSION CONTROL MEASURES IF THE INSPECTOR DEEMS NECESSARY.
- 12. GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO TAKE REASONABLE MEANS NECESSARY TO ESTABLISH PERMANENT SOIL STABILIZATION.
- 13. AT THE END OF EACH WORK DAY DISTURBED SOILS ARE TO BE REGRADED TO DRAIN INTO THE TEMPORARY DIVERSION SWALES AND DISCHARGES FROM DEWATERING ACTIVITIES ARE TO BE DIRECTED INTO CATCH BASINS OR SWALES.
- 14. CONCRETE WASHOUTS DEPICTED ON PLANS ARE FOR REFERENCE ONLY. CONTRACTOR TO FIELD LOCATE WASHOUTS AS NECESSARY. FIELD LOCATED WASHOUTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE EM&CP AND SHALL BE A MINIMUM OF 100' FROM ADJACENT WETLANDS AND 200' FROM ANY EXISTING WELLS.

	No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	DR/
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CANADIAN PACIFIC RAILWAY (CPR) NOTES:

- 1. THE DESIGN WITHIN THE RAILROAD RIGHT OF WAY INCROPORATES ASPECTS OF THE FOLLOWING STANDARDS: 1.a. CANADIAN PACIFIC RAILWAY - UTILITY SPECIFICATIONS AND
- PROCESS APPLICATION (US) HTTPS: //WWW.CPR.CA/EN/CHOOSE-RAIL-SITE/DOCUMENTS/ CP-UTILITY-SPECS-AND-APPLICATION-PROCESS.PDF
- 1.b. AMERICAN RAILWAY ENGINEERING AND MAINTENANCE OF WAY ASSOCIATION (AREMA) MANUAL FOR RAILWAY ENGINEERING
- 1.c. BNSF/UP GUIDELINES FOR TEMPORARY SHORING.
- 2. SEE ADJACENT CANADIAN PACIFIC RAILWAY (CPR) GENERAL CONSTRUCTION NOTES.

GENERAL HORIZONTAL DIRECTIONAL DRILLING NOTES:

- 1. UNLESS NOTED OTHERWISE ON C-300 SERIES HDD PLAN AND PROFILES, EACH HDD CONSISTS OF A PAIR OF (2) HVDC ELECTRICAL TRANSMISSION CABLES HOUSED IN INDIVIDUAL 10" DIAMETER CASINGS/CONDUITS, HDPE DR9, AND A THIRD 2" DIAMETER CASING/CONDUIT, HDPE DR9, WILL BE BUNDLED IN PULLBACK WITH ONE OF THE 10" CASINGS/CONDUITS FOR A TELECOMMUNICATION LINE.
- 2. THERMAL RESISTIVITY (TR) HORIZONTAL SPACING TO BE MAINTAINED IN PLAN BETWEEN CONDUIT 1 AND CONDUIT 2 IS CALLED OUT AS "TRDS" APPENDED TO A DIMENSION IN BETWEEN CONDUITS IN PLAN VIEWS, WHERE TRDS IS THE THERMAL RESISTIVITY DESIGN SPACING. TRDS IS DERIVED FROM AN ASSIGNED RHO (GREEK CHARATER r FOR TR) AND ON DESIGN DEPTH FOR THE PAIR OF CONDUITS IN SHOWN PROFILE. RHO AND TRDS ARE DETERMINED BY ELECTRICAL ENGINEERING ON THE BEHALF OF THE OWNERS.
- 3. THE HDD CONTRACTOR SHALL HOLD THE TRDS IN THEIR OPERATIONS WITHIN THE HORIZONTAL TOLERANCES SPECIFIED IN SECTION 330507.13. IN CONSTRUCTION, THE SPACING SHALL BE CONTROLLED, OBSERVED, AND MAINTAINED SUCH THAT THE AS-BUILT SPACING SHALL NEVER BE LESS THAN TRDS MINUS 10 FEET, ABSOLUTE MINIMUM.
- 4. HDD SUBCONTRACTOR SHALL COORDINATE WITH OVERHEAD ELECTRIC OWNER/OPERATOR(S) TO HAVE TEMPORARY PROTECTIVE SLEEVES INSTALLED ON OVERHEAD POWER LINES IN THE VICINITY OF WORKZONES.
- STANDARD PENETRATION TEST, SPT, N-VALUES SHOWN ON THE C-300 SERIES DRAWINGS ARE NOT CORRECTED FOR THE SAMPLER SIZE OR HAMMER ENERGY. REFERENCE BORING LOGS AND GEOTECHNICAL REPORTS FOR DETAILED INFORMATION.
- 6. WHEN CONDUCTOR CASINGS OR CONDUITS ARE USED TO MANAGE INADVERTENT RETURNS, THE CONDUCTOR SHALL BE REMOVED IMMEDIATELY AFTER THE PULL BACK OF THE MAIN CONDUIT OR CONDUIT BUNDLE. A WRITTEN PLAN MUST BE SUBMITTED SEEKING ENGINEERING APPROVAL OF THE MATERIAL USED TO REPLACE THE RESIDUAL DRILLING FLUID WHEN FILLING THE ANNULAR SPACE BETWEEN THE CONDUIT OR CONDUIT BUNDLE AND THE NATIVE SOILS LEFT AFTER CONDUCTOR CASING EXTRACTION.
- FOR WORKZONES THAT ARE ADJACENT TO OR IN CLOSE PROXIMITY TO OVERHEAD ELECTRIC WHERE EQUIPMENT MUST BE MANEUVERED, THE HDD SUBCONTRACTOR SHALL COORDINATE WITH ELECTRIC OWNER/OPERATOR TO ENSURE THAT ALL OSHA MANDATED CLEARANCES ARE OBSERVED AND MAINTAINED WITH THE INSTALLATION OF HIGH VISIBILITY RUBBER SLEEVES FOR VISUAL INDICATION PURPOSES. ADDITIONAL SPOTTERS SHOULD BE CONSIDERED.
- 8. WHEN AN HDD WORK ZONE OR WORK AREA CROSSES, OVERLAPS, OR IMPACTS DESIGNATED WETLANDS, RESTORATION OF THOSE WETLANDS SHALL BE INITIATED UPON COMPLETION OF WORK USING ACCEPTED ENVIRONMENTAL BEST MANAGEMENT PRACTICES (BMP). WORK ZONES ARE CONSIDERED AN EXTENSION OF ACCESS ROADS. TIMBER MATTING, AS SHOWN AND NOTED ON WETLAND CROSSING DETAILS, SHEET C-611, OPTION "A" AND/OR OPTION "B" ADAPTED TO THE SITE-SPECIFIC NEEDS AND ADJACENT ACCESS ROADS, SHOULD BE USED.
- 9. ABANDON UTILITY POLES THAT ARE ENCOUNTERED WITHIN THE RAILROAD ROW AND BOUNDARY BY THE HDD SUBCONTRACTOR WITHIN WORK ZONES. IMMEDIATELY ADJACENT TO A WORK ZONE, OR THAT OTHERWISE OBSTRUCT PREPARATION OF, OR USE OF, A WORK ZONE AND OR FABRICATION OF THE PULLBACK STRING OF HDPE CONDUIT(S) SHALL BE REMOVED AND DISPOSED OF BY OTHERS.

CANADIAN PACIFIC RAILWAY (CPR) - GENERAL CONSTRUCTION NOTES

CONSTRUCTION REQUIREMENTS

- 1. LOCATES & UTILITIES
- a. THE CONTRACTOR IS REQUIRED TO OBTAIN AND MAINTAIN LOCATES FOR THE ENTIRE WORKING AREA PRIOR TO COMMENCING ANY EXCAVATION OR SUBSURFACE WORK. b. FIBRE OPTIC LOCATES MUST BE REQUESTED THROUGH THE CP OPERATIONS DESK AT
- 1-800- 387-1833. FIBRE OPTICS ARE LOCATED PARALLEL TO THE ROW THROUGHOUT MOST OF THE RAILWAYS NETWORK. c. FIBRE OPTIC CABLES MUST BE PROTECTED, AND PHYSICALLY EXPOSED WHERE
- DIRECTED BY THE FIBRE OPTIC OWNERS REPRESENTATIVE. d. RAILWAY SIGNAL LOCATES MUST ALSO BE OBTAINED THROUGH THE CP OPERATIONS DESK.
- e. ALL OTHER UTILITY LOCATES MUST BE OBTAINED THROUGH THE UTILITIES DIRECTLY, OR THROUGH A ONE-CALL SERVICE AS APPROPRIATE.
- f. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROPERLY LOCATING, PROTECTING AND RESTORING ANY UTILITIES WITHIN RAILWAY PROPERTY.

2. SETBACKS

- a. REQUIRED CONSTRUCTION CLEARANCES SHALL BE MAINTAINED AT ALL TIMES THROUGHOUT THE WORK.
- b. NO PERMANENT FACILITIES SHALL BE CONSTRUCTED WITHIN 25' OF ANY MAIN TRACK CENTERLINE.
- c. NO TEMPORARY FACILITIES SHALL BE CONSTRUCTED WITHIN 13' OF ANY MAIN TRACK CENTRELINE, AND THEN ONLY WITH EXPRESSED WRITTEN AUTHORIZATION BY CP.
- d. WHERE II) OR III) ABOVE HAVE THE POTENTIAL TO IMPACT WAYSIDE SIGNAL OR CROSSING SIGHTLINES, THE DISTANCES MUST BE INCREASED TO COMPLY WITH SIGHTLINE REQUIREMENTS.

3. CROSSING TRACKS

- a. PERSONNEL MAY ONLY CROSS TRACKS ON FOOT WHEN AUTHORIZED BY THE FLAGMAN UNLESS USING A DESIGNATED PUBLIC CROSSING. CROSS THE TRACKS AT A 90 DEGREE ANGLE, AND NEVER STEP ON THE RAIL.
- b. THE OPERATION OF ANY MACHINERY, VEHICLE OR EQUIPMENT ON OR ACROSS TRACKS AT A LOCATION OTHER THAN A DESIGNATED CROSSING IS PROHIBITED.
- C. TEMPORARY CROSSINGS SHALL ONLY BE INSTALLED WHERE AUTHORIZED BY CP, AND SHALL COMPLY WITH ALL APPLICABLE CROSSING SAFETY REGULATIONS. d. TEMPORARY CROSSINGS WILL BE INSTALLED AND REMOVED BY CP FORCES, AND
- SHALL NOT BE CONSTRUCTED OR USED UNLESS A SIGNED AGREEMENT IS IN EFFECT. e. TEMPORARY CROSSINGS MUST BE SECURED BY A LOCKED GATE ON BOTH SIDES OF
- THE TRACK AT ALL TIMES THAT THE FLAGMAN IS NOT PRESENT.
- f. WHEN CROSSING TRACKS AT A CROSSING, CONTACT WITH THE RAIL BY MACHINERY TRACKS OR OTHER METAL COMPONENTS IS STRICTLY PROHIBITED. BLASTING MATS OR OTHER MEANS MUST BE INSTALLED TO PREVENT MECHANICAL CONTACT BETWEEN METAL SURFACES AND THE RAILS.
- g. CROSSINGS MUST BE KEPT CLEAR OF MATERIAL, MUD OR DEBRIS. THE CROSSING MUST BE INSPECTED AND CLEANED AS REQUIRED, WITH PARTICULAR ATTENTION TO THE FLANGEWAYS, PRIOR TO THE PASSAGE OF EACH TRAIN.
- h. THE CONTRACTOR MUST ENSURE THAT BOTH RAILS OF THE SAME TRACK ARE NEVER CONNECTED WITH ANY METAL CONDUCTOR (SUCH AS BARE WIRE, STEEL TAPE MEASURES, EQUIPMENT, ETC).

4. HOUSEKEEPING

- a. THE PROJECT SITE MUST BE KEPT CLEAN AND TIDY. DEBRIS MUST BE PROMPTLY REMOVED.
- b. STORAGE OF MATERIALS ON RAILWAY PROPERTY IS PROHIBITED.
- c. POSITIVE DRAINAGE AWAY FROM THE TRACKS MUST BE MAINTAINED AT ALL TIMES. d. ALL SCAFFOLDING, FALSEWORK, FORMWORK, PROTECTIVE COVERINGS ETC. MUST BE
- SECURED AGAINST MOVEMENT DURING THE PASSAGE OF TRAINS AT TRACK SPEED. e. OPEN EXCAVATIONS MUST BE PROTECTED BY SIGNAGE AND FENCING. CONSIDERATION MUST BE GIVEN TO THE SAFETY OF TRAIN CREWS WHO MAY BE REQUIRED TO WALK
- THROUGH THE WORK SITE AT NIGHT. f. WHEREVER PRACTICAL, OPEN EXCAVATIONS SHALL BE FULLY COVERED AND SECURED
- IN LIEU OF FENCING. g. STORAGE OF EQUIPMENT AND MACHINERY ON RAILWAY PROPERTY IS PROHIBITED.
- h. TRACKS MUST BE PROTECTED FROM DEBRIS DURING WORK OPERATIONS. PLYWOOD. FILTERCLOTH OR OTHER MEASURES SHALL BE INSTALLED AT THE DIRECTION OF THE RAILWAY TO PREVENT CONTAMINATION OF THE TRACK BALLAST.
- i. THE CONTRACTOR SHALL BE LIABLE FOR ANY COST INCURRED BY THE RAILWAY TO RESTORE FOULED TRACK BALLAST.

5. WEATHER RESTRICTIONS

- a. THE RAILWAY RESERVES THE RIGHT TO SUSPEND ANY CONSTRUCTION ACTIVITY WHICH MAY AFFECT THE STABILITY OF THE ROADBED, BALLAST OR TRACK STRUCTURE AS A RESULT OF HOT WEATHER OR EXCESSIVE PRECIPITATION.
- b. WHEN THE AMBIENT AIR TEMPERATURE IS EQUAL TO OR GREATER THAN 25°C (77°F). THE RAILWAY MAY IMPOSE EXCAVATION RESTRICTIONS.
- c. WHEN THE AMBIENT AIR TEMPERATURE IS EXPECTED TO EXCEED 30°C (86°F), EXCAVATION OF THE ZONE OF POTENTIAL TRACK LOADING (ZPTL) OR BALLAST SHOULDERS IS PROHIBITED.
- d. BACKFILLED EXCAVATIONS MUST BE PROTECTED FROM EROSION UNTIL NATURAL VEGETATION PROPERLY GERMINATES. THIS MAY INCLUDE TARPING SLOPES WHEN SIGNIFICANT PRECIPITATION IS EXPECTED.







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CHAMPLAIN HUDSON POWER EXPRESS SEGMENT 3 - PACKAGE 2 - FORT ANN TO KINGSBURY					KIEW	/IT PROJECT NO.
						21162
					CH	A PROJECT NO.
SEGMENT 3 - FACINGE Z - TONTAINN TO MINGSDONT					066076	
PACKAGE SPECIFIC NOTES				C	RAWING NO.	
					C	6-003
			SCALE	AS NOTED	DATE	12/16/2022
DRAWN BY: JJE	DESIGNED BY: JTM	APPROVED BY: JPR	REV. NO.	Х		

нн	EXIST. FIBER OPTIC LINE HANDHOLE
P	EXIST. FIBER OPTIC LINE PEDESTAL
DH	EXIST. FIBER OPTIC LINE DOGHOUSE
(MH)	EXIST. FIBER OPTIC LINE MANHOLE
V	EXIST. FIBER OPTIC LINE VAULT
BP	EXIST. FIBER OPTIC LINE BORE PIT
LB	EXIST. FIBER OPTIC LOCK BOX
+	EXIST. GROUND ROD
FIBER MARK	EXIST. FIBER OPTIC MARKER POST
100	EXIST. FIBER STORAGE
	EXIST. FIRE HYDRANT
\otimes^{WV}	EXIST. WATER VALVE
W	EXIST. WATER MANHOLE
WATER • MARK	EXIST. WATER MARKER
\$	EXIST. SANITARY SEWER MANHOLE
	EXIST. SANITARY SEWER VENT
S	EXIST. STORM SEWER MANHOLE
СВ	EXIST. STORM SEWER CATCH BASIN
< ^{INV.}	EXIST. CULVERT INVERT
6	EXIST. GAS MANHOLE
€ _{GV}	EXIST. GAS VALVE
GAS MARK	EXIST. GAS MARKER
	EXIST. GAS PIPELINE VENT
‡	EXIST. LIGHT POLE
ØUP	EXIST. UTILITY POLE
ØPP	EXIST. ELEC. POLE
⊗	EXIST. TRAFFIC LIGHT
Ε	EXIST. ELEC. METER
E	EXIST. ELEC. MANHOLE
TR	EXIST. ELEC. TRANSFORMER
V	EXIST. ELEC. VAULT
HH 	EXIST. ELEC. HANDHOLE
P ELEC	EXIST. ELEC. PEDESTAL/BOX
MARK	EXIST. ELEC. MARKER POST
	EXIST. ELEC. GUY ANCHOR/WIRE
	EXIST. TELE. RISER/BOX
1	EXIST. TELE. MANHOLE
HH	EXIST. TELE. HANDHOLE
	EXIST. TELE. VAULT
	EXIST. TELE. PEDESTAL
	EXIST. TELE. DOGHOUSE
• MARK	EXIST. TELE. MARKER POST
	EXIST. TELE. JUNCTION BOX
TB	EXIST. TRAFFIC SIGNAL BOX
<mark>بېن</mark> ې	EXIST. CELL TOWER EXIST. CABLE BOX
	EXIST. CABLE BOX
	EXISTING WANHOLE ONKNOWN
	EXISTING ONLINY BOX ONKNOWN
CAPPED IRON ROD	EXISTING ANTENNA EXISTING CAPPED IRON ROD
♥ IRON PIPE	EXISTING IRON PIPE
CONCRETE BOUNDARY	EXISTING CONCRETE MONUMENT
POST	EXISTING POST
¢	EXISTING REFLECTOR MARKER
(SYM.)	EXISTING SYMBOL

SIGN ۲ \square ++××−# — — G — — G — — UT — UT — — FO — FO — — — OT — — OT — ------ OE ----- OE -----— — st — st — — — ss — — ss — — — ST — ST — — — w — — w — ____ · · · ___ · · · ___ · · · ____ ⊗CERTIFIED ROUTE MP XX ~~~~~ imes139.7 \subset \square \frown /*****\ **^** 01.2 0 $\bigcirc \bigcirc \bigcirc$ _____ 0 0 _____ ____ · ____ · ____ · ____ _____ X _____

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EXIST. TRAIL

EXIST. FENCE

EXIST. WALL

LEGEND & ABBREVIATIONS

EXISTING SIGN	THE	PEM – PALUSTRINE EMERGENT
EXIST. STRUCTURE POST	ZZZZ	PSS – PALUSTRINE SCRUB-SHRUB
EXIST. STRUCTURE MAILBOX		PFO – PALUSTRINE FORESTED
EXIST. WETLAND FLAG		PUB – PALUSTRINE UNCONSOLIDATED BOTTOM
EXIST. GAS LINE		L1 – LACUSTRINE LIMNETIC
EXIST. UNDERGROUND TELE.		L2 – LACUSTRINE LITTORAL
EXIST. FIBER OPTIC		NYSDEC FWW 100-FOOT ADJACENT BUFFER AREA
EXIST. OVERHEAD TELE.		BUTTERFLY HABITAT
EXIST. UNDERGROUND ELEC.		JD BOUNDARY
EXIST. OVERHEAD ELEC.	WP	PROP. WETLAND PROTECTION FENCE
EXIST. CULVERT	FS	PROP. COMPOST FILTER SOCK (OR SILT SOCK)
EXIST. SANITARY SEWER	LOW	PROP. LIMITS OF WORK/DISTURBANCE
EXIST. STORM SEWER		PROP. LIMITS OF CLEARING/LIMITS OF WORK IN CLEARING AREAS (SEE NOTE 1)
EXIST. POTABLE WATER LINE		PROP. CONCRETE WASHOUT
EXIST. RAILROAD TRACK		PROP. ACCESS ROAD ROUTE (EXISTING ROAD OR SURFACE)
EXIST. WETLANDS		PROP. REFURBISHED ACCESS ROAD
CERTIFIED ROUTE PROVIDED BY CHPE KMZ		PROP. ACCESS ROAD OR OFF SITE ACCESS ROAD
EXIST. CONTOUR, INDEX		PROP. TIMBER MATTING ACCESS ROAD
EXIST. CONTOUR, DEPRESSION INDEX		
EXIST. CONTOUR, INTERMEDIATE		PROP. SPLICE LOCATION
EXIST. CONTOUR, DEPRESSION INTERMEDIATE		PROP. SPLICE VAULT
EXIST. SPOT ELEVATION		PROP. LINK BOX HANDHOLE
EXIST. CULTURAL DEBRIS		PROP. FIBER SPLICE HANDHOLE
EXIST. CULTURAL FIELD LINE	•	PROP. BORING LOCATION
EXIST. CULTURAL LANDSCAPE AREA	XXXXX+XX	PROP. ALIGNMENT STATIONING
EXIST. CULTURAL PILE		PROP. RIGHT-OF-WAY
EXIST. CULTURAL STORAGE AREA		PROP. ABUTTER
EXIST. HYDROGRAPHIC		PROP. ALIGNMENT CENTERLINE
EXIST. CULVERT		PROP. TEMPORARY EASEMENT
EXIST. INUNDATED AREA		PROP. PERMANENT EASEMENT
EXIST. RIP-RAP		PROP. TEMPORARY ACCESS EASEMENT
EXIST. STREAM		APPROXIMATE SNOWMOBILE TRAIL LOCATION
EXIST. SWAMP		
WATER LEVEL	NOTES:	
EXIST. NATURAL BOULDER	1. LIMIT OF WORK STOCKPILES MA	(LOW) – THE BOUNDARY IN WHICH ALL CONSTRUCTION ACTIVITIES, TERIAL, EQUIPMENT STORAGE, ACCESS, PARKING, GRADING,

- EXIST. NATURAL BOUL
- EXIST. NATURAL SHRUB LINE
- EXIST. NATURAL TREE LINE
- EXIST. NATURAL SINGLE TREE/BUSH
- EXIST. STRUCTURAL BUILDING
- EXIST. PAVED DRIVE
- EXIST. PAVED ROAD
- EXIST. PAVED SHOULDER
- EXIST. PAVED SIDEWALK
- EXIST. GUARDRAIL
- EXIST. RAILROAD

EXIST. RETAINING WALL EXIST. MILEPOST NUMBER EXIST. MAPPING BOUNDARY EXIST. GROUND CONTROL PROP. RIGHT-OF-WAY

PROP. ABUTTER

STOCKPILES MATERIAL, EQUIPMENT STORAGE, ACCESS, PARKING, GRADING, LANDSCAPING, RESTORATION, AND ANY OTHER CONSTRUCTION RELATED ACTIVITIES SHALL OCCUR. ADDITIONALLY, THE LOW IS THE BOUNDARY FOR ALL POTENTIAL DISTURBANCE DURING CONSTRUCTION. UNLESS OTHERWISE SPECIFIED, WHEN THE LIMIT OF CLEARING AND GRUBBING IS SHOWN ON THE PLANS, IT SHALL ALSO BE THE LOW. THE LOW INCLUDES THE AREA THAT WOULD BE CONSIDERED THE LIMIT OF DISTURBANCE (LOD).

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	12/16/2022	FINAL EM&CP SUBMISSION	JJE	JPR	CHAMPLAIN HUDSON POWER EXPRESS SEGMENT 3 - PACKAGE 2 - FORT ANN TO KINGSBURY LEGEND AND ABBREVIATIONS
	No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	

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INVERT ELEVATION

LIMITS OF WORK

MAXIMUM

MINIMUM

NORTHING

NUMBER

RADIUS

ROAD

REVISION

ROUTE

SHEET

STREET

STATION

RIGHT-OF-WAY

SANITARY SEWER PIPE

STORM DRAIN PIPE

THERMAL RESISTIVITY

TEMPORARY

TYPICAL

VERTICAL

WATERLINE

TELECOMMUNICATIONS CABLE

NEW YORK

PACKAGE #

POLYVINYL CHLORIDE

POINT OF VERTICAL INTERSECTION

REINFORCED CONCRETE PIPE

DRIVE

DESIGNED BY

DEVIATION ZONE

ELECTRIC CABLE

FIBER OPTIC CABLE

HORIZONTAL DIRECTIONAL DRILLING

HIGH-VOLTAGE DIRECT CURRENT TRANSMISSION LINE

CORRUGATED METAL PIPE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SEGMENT 3 - PACKAGE 2 - FORT ANN TO KINGSBURY LEGEND AND ABBREVIATIONS

KIEWIT PROJECT NO. 21162 CHA PROJECT NO. 066076 DRAWING NO.

AS NOTED DATE

G-004

12/16/2022

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	Structo	ure Table		
Structure Name	Station	Northing	Easting	Finished Grade
FIBER MANHOLE 040	19999+25.00	1693712.31	776174.81	RIM = 128.64
SPLICE LOCATION 040	20000+00.00	1693648.64	776210.06	RIM = 125.01
SPLICE VAULT 041	20032+45.00	1690762.72	775002.76	RIM = 122.77
SPLICE VAULT 042	20064+00.00	1688111.29	773341.25	RIM = 125.97
SPLICE VAULT 043	20095+50.90	1685071.57	772626.12	RIM = 127.23
SPLICE VAULT 044	20127+03.48	1682224.31	771637.95	RIM = 127.80
SPLICE VAULT 045	20158+03.49	1679386.25	770833.55	RIM = 127.39
LINK BOX 045A	20189+20.06	1677403.23	768486.88	RIM = 140.49
SPLICE LOCATION 045A	20189+92.41	1677355.75	768431.96	RIM = 136.71
FIBER MANHOLE 045A	20190+63.11	1677321.55	768369.40	RIM = 135.70
FIBER MANHOLE 046	20218+40.63	1675757.27	766079.94	RIM = 137.08
SPLICE LOCATION 046	20219+11.09	1675720.43	766019.73	RIM = 134.50
FIBER MANHOLE 047	20236+19.71	1674960.77	764491.51	RIM = 134.19
SPLICE LOCATION 047	20236+92.24	1674942.25	764420.94	RIM = 131.58
FIBER MANHOLE 048	20268+24.74	1673083.81	762163.89	RIM = 135.58
SPLICE LOCATION 048	20268+96.04	1673013.71	762150.56	RIM = 133.91
LINK BOX 048	20269+22.15	1672992.36	762127.10	RIM = 134.48

PLAN AND PROFILE KEY MAP SCALE: 1" = 4000'

- CHAMPLAIN CANAL

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Vaughns		-511			
Corners				STALL.	
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	Structu	ure Table			MK.
Structure Name	Station	Northing	Easting	Finished Grade	
FIBER MANHOLE 049	20278+33.02	1672101.25	761937.58	RIM = 137.48	18
SPLICE LOCATION 049	20279+08.60	1672027.56	761920.78	RIM = 137.40 RIM = 133.96	- 1
FIBER MANHOLE 049A	20279+08.00		761582.03		12
		1669302.51		RIM = 130.90	
SPLICE LOCATION 049A	20307+54.97	1669225.24	761585.26	RIM = 129.60	-
FIBER MANHOLE 050	20323+74.33	1667615.97	761679.21	RIM = 136.47	-
SPLICE LOCATION 050	20324+46.10	1667544.43	761672.00	RIM = 134.27	
LINK BOX 050	20324+50.41	1667539.53	761685.97	RIM = 0.00	2
FIBER MANHOLE 051	20352+71.91	1664784.11	761111.58	RIM = 137.41	There
SPLICE LOCATION 051	20353+47.17	1664709.38	761101.41	RIM = 135.51	2000
FIBER MANHOLE 052	20380+22.76	1662083.62	760590.34	RIM = 137.48	2782
SPLICE LOCATION 052	20380+97.14	1662009.27	760586.55	RIM = 135.71	
FIBER MANHOLE 053	20411+93.29	1658928.46	760693.76	RIM = 131.93	6 60
SPLICE LOCATION 053	20412+66.77	1658854.94	760695.20	RIM = 129.45	E hard
LINK BOX 053	20413+09.62	1658811.55	760687.60	RIM = 0.00	110
FIBER MANHOLE 054	20444+26.83	1655698.07	760766.04	RIM = 131.96	- 25
SPLICE LOCATION 054	20445+06.92	1655618.00	760761.81	RIM = 129.92	199
FIBER MANHOLE 055	20476+71.46	1652534.81	760190.56	RIM = 133.42	21
SPLICE LOCATION 055	20477+51.66	1652460.38	760160.47	RIM = 130.26	-
FIBER MANHOLE 056	20509+22.67	1649475.95	759095.60	RIM = 133.42	E I
SPLICE LOCATION 056	20509+96.45	1649407.34	759068.37	RIM = 140.09	- 14
LINK BOX 056	20510+74.93	1649335.87	759035.22	RIM = 0.00	
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ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT							
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SPECIFIC DESCRIPTION OF THE ALTERATION.	-	0	12/16/2022	FINAL EM&CP SUBMISSION	JJE	JPR	
		No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	DR
	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	ARE ACTING UNDER THE DIRECTION OF À 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	ARE ACTING UNDER THE DIRECTION OF À 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	ARE ACTING UNDER THE DIRECTION OF À 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	ARE ACTING UNDER THE DIRECTION OF À 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 12/16/2022 FINAL EM&CP SUBMISSION	ARE ACTING UNDER THE DIRECTION OF À 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 12/16/2022 FINAL EM&CP SUBMISSION JJE	ARE ACTING UNDER THE DIRECTION OF À 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. O 12/16/2022 FINAL EM&CP SUBMISSION JJE

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1	Structure Table						
	Structure Name	Station	Northing	Easting	Finished Grade		
1	FIBER MANHOLE 057	20541+65.33	1646466.21	757914.91	RIM = 147.00		
	SPLICE LOCATION 057	20542+39.52	1646402.26	757877.18	RIM = 143.25		
1	FIBER MANHOLE 058	20574+10.11	1643613.48	756369.60	RIM = 145.22		
	SPLICE LOCATION 058	20574+83.89	1643548.37	756334.89	RIM = 142.54		
	FIBER MANHOLE 059	20606+94.15	1640756.20	754813.72	RIM = 145.00		
	SPLICE LOCATION 059	20607+29.16	1640719.83	754807.36	RIM = 145.88		
	LINK BOX 059	20607+64.07	1640695.39	754779.16	RIM = 145.00		
100	SPLICE LOCATION 060	20639+73.21	1638155.26	752837.08	RIM = 142.43		
	FIBER MANHOLE 060	20640+76.30	1638080.42	752765.76	RIM = 142.57		
	FIBER MANHOLE 061	20671+41.84	1635707.82	750830.15	RIM = 143.17		
	SPLICE LOCATION 061	20672+16.19	1635648.15	750785.67	RIM = 141.00		
ł	FIBER MANHOLE 062	20703+89.97	1633190.86	748782.08	RIM = 144.69		
	SPLICE LOCATION 062	20704+58.27	1633140.97	748734.20	RIM = 142.76		
1	LINK BOX 062	20705+34.99	1633083.61	748683.15	RIM = 145.00		
	FIBER MANHOLE 063	20734+31.40	1630873.69	746831.86	RIM = 146.53		
	SPLICE LOCATION 063	20735+06.78	1630840.30	746764.20	RIM = 144.72		
	FIBER MANHOLE 064	20777+46.01	1627759.19	743916.22	RIM = 136.45		
	SPLICE LOCATION 064	20778+21.17	1627700.71	743869.26	RIM = 135.00		
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C-131

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PLAN AND PROFILE KEY MAP SCALE: 1" = 4000'

C.738

C 73

CHAMPLAIN HUDSON POWER EXPRESS SEGMENT 3 - PACKAGE 2 - FORT ANN TO KINGSBURY PLAN AND PROFILE KEYPLAN

KIEWIT PROJECT NO. 21162 CHA PROJECT NO. 066076 DRAWING NO.

G-005

12/16/2022

						SCALE
RAWN BY:	JJE	DESIGNED BY:	JTM	APPROVED BY:	JPR	REV. NO.

				e 7.1 – Agricultural Lands	
Segment/ Package	Parcel ID	Sheet Number	Location (Approximate – see Appendix C for Details)	Location Description	Anticipated Impacts to Agricultural Activities/Land
3/2	10401-1.1	C-113	20186+00 to 20190+00	West of CP Railroad east of Route 4 Lands N/F of Jenkinsville Sand & Gravel	Construction activity will occur within the CP-Railroad ROW/eastern edge of agricultural lands. Anticipated impacts to agricultural lands include clearing along property edge as described in Table 8.4. All impacts to agricultural lands will be fully restored in accordance with Section 14.5.
3/2	112.4-27	C-123 to C-124	20338+00 to 20350+00	CP Railroad within agricultural land – cable west of tracks east of Route 4	Construction activity will occur within the CP-Railroad ROW within agricultural lands and is not anticipated to impact these areas.
3/2	121.00-1-17	C-128 to C-129	20407+00 to 20428+00	CP Railroad within/ adjacent (west) of agricultural land– cable west of tracks east of Route 149	The majority of construction activity will occur within the CP-Railroad ROW except for the installation of an access road as described in Table 4. All impacts to agricultural lands will be fully restored in accordance with Section 14.5.
3/2	1303-1	C-129 to C-130	20428+00 to 20447+50	CP Railroad within/ adjacent (west) of agricultural land– cable west of tracks east of Route 149	Construction activity the installation of the alignment, and tree and vegetation clearing as described in Table 8.4 will impact these agricultural lands. All impacts to agricultural lands will be fully restored in accordance with Section 14.5.
3/2	1303-7.3	C-130 & C-215	20447+00	West of CP Railroad	agricultural lands registered with Washington County Ag District 7. Access road will be constructed perpendicular to the CP-Railroad ROW as described in Table 4.6. All impacts to agricultural lands will be fully restored in accordance with Section 14.5.
3/2	1303-7.3 1303-7.4 1303-7.1 130-3-7.5 130-3-7.12 1391-13 1391-3 1391-3 1391-3.1 1381-21.2	C-130 to C-137	20447+50 to 20549+00	West of CP Railroad	Agricultural lands registered with Section 14.5. Agricultural lands registered with Washington County Ag District 7. Construction activity will occur within CP-Railroad, except for portions of the access roads as described in Table 4.6, the exit and entry points for HDD#16 & #17. All impacts to agricultural lands will be fully restored in accordance with Section 14.5.
3/2	1303-7.4	C-132 & C-216	20466+00	West of CP Railroad	agricultural lands registered with Washington County Ag District 7. Access road will be constructed perpendicular to the CP-Railroad ROW as described in Table 4.6. Kingsbury Show Up Yard located on this parcel as described in Table 5.2. All impacts to agricultural lands will be fully restore
3/2	1391-3	C-135 & C-217	20512+00	West of CP Railroad	in accordance with Section 14.5. agricultural lands registered with Washington County Ag District 7. Access road will be constructed perpendicular to the CP-Railroad ROW as described in Table 4.6. All impacts to agricultural lands will be fully restored in accordance with Section 14.5.
3/2	138-1-20 138-1-21.1	C-137 to C-138 & C- 216	20549+00 to 20580+00	West of CP Railroad	Ag land registered with Washington County Ag District 7. Construction activity including installation of the alignment via HDD#17 and via trenching will occur within the CP-Railroad ROW except for portions of the access roads and portions of the HDD assembly areas that are located parallel to the tracks. All impacts to agricultural lands will be fully restored in accordance with Section 14.5
3/2	1381-21.1	C-139 & C-218	20576+00	West of CP Railroad	agricultural lands registered with Washington County Ag District 7. Access road will be constructed perpendicular to the CP-Railroad ROW as described in Table 4.6. All impacts to agricultural lands will be fully restore in accordance with Section 14.5.
3/2	1381-24 1471-8	C-139 to C-141	20580+00 to 20614+00	West of CP Railroad	Construction activity will occur within CP-Railroad ROW and is not anticipated to impact these areas.
3/2	1471-17	C-144 to C-145	20650+00 to 20670+00	West of CP Railroad east of Towpath Road – cable west of tracks	agricultural lands registered with Washington County District 7. Construction activity associated with the installation of the alignment via HDD#18 will be located within these agricultural lands adjacent to the CP- Railroad ROW. An access road as described in Table 4.6 will be constructed within these agricultural lands. All impacts to agricultural land will be fully restored in accordance with Section 14.5.
3/2	1551-2.1	C-148 & C-220	20706+00 to 20711+00	West of CP-Railroad	agricultural lands registered with Washington County Ag District 7. Access road will be constructed perpendicular to the CP-Railroad ROW as described in Table 4.6. All impacts to agricultural lands will be fully restore in accordance with Section 14.5.
3/2	1551-6 1551-8 1551-9 1551-11 1551-13	C-148 to C-150	20711+00 to 20740+00	West of CP-Railroad	Construction activity will take place within the CP-Railroad ROW except for the installation of an access road as described in Table 4.6, and the associated HDD#20 assembly area. All impacts to agricultural lands will be fully restored in accordance with Section 14.5.
3/2 Note: Table	1541-15 1541-16	C-150 to C-151	20740+00 to 20756+00	Northeast of CP Railroad and south of NY Route 1%	Construction activity will involve the installation of the alignment via HDE #20, installation of the alignment via trenching, construction of temporary access road as described in Table 4.6. All impacts to agricultural lands will be fully restored in accordance with Section 14.5.

PACKAGE 2 – AGRICULTURAL DISTRICT LANDS

- NOTES: 1. THE STORMWATER POLLUTION PREVENTION PLAN INCLUDED IN APPENDIX G OF THE EM&CP DESCRIBES THE EROSION AND SEDIMENT CONTROLS THAT WILL BE FOLLOWED FOR THIS PACKAGE.
- 2. THE EROSION AND SEDIMENT CONTROL PLANS CAN BE FOUND ON SHEET C-400 TO SHEET C-427 FOR THIS PACKAGE.
- PACKAGE 2 EM&CP EROSION AND SEDIMENT CONTROL NOTES
- NOTE: 1. THE NOISE RECEPTORS THAT MAY OCCUR NEAR THIS PACKAGE AT VARIOUS POINTS INCLUDE RESIDENCES AND BUSINESSES. SECTION 10.2 DESCRIBES THE NOISE CONTROL MEASURES THAT WILL BE EMPLOYED THROUGHOUT THIS PACKAGE.

PACKAGE 2 - EM&CP NOISE SENSITIVE AREAS NOTE







NOTE:

NOTE:

n Methods
Section of EM&CP
4.2
4.3
4.3.1
4.3.2
422 Annordin I
4.3.3, Appendix J
4.3.4
4.4
4.4.1
4.4.2
4.4.3
4.4.4
4.4.5
4.4.6
4.4.7
Note Applicable for this Segment
Note Applicable for this Segment
4.7
4.8 (See also Chapter 8)
4.9
4.10
4.10.1
4.10.2
4.10.3
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4.10.5
4.11 and Appendix L
4.12
4.13
4.14

Note: The Table above summarizes the construction methods and associated subsections that summarize the measures and standards that will be followed within this Segment.

PACKAGE 2 - CONSTRUCTION METHODS

Table 8.2 – Tree and Vegetation Clearing Methods					
Method Type	Method Title	Method Description			
Type I	Hand Cutting (HC)	This method employs a hand-held chain saw. It is selective but is slower and more expensive than motorized mechanical devices. Residential areas, buffer zones, wetlands, and highway screens are areas where hand cutting is typically prescribed.			
Туре II	Mechanical Clearing Machine (HA)	This term usually refers to a machine known as the Hydro- ax or Kershaw mower. This machine can cut trees up to 10 inches in diameter at the rate of several acres a day, depending on stem density and terrain. It is essentially nonselective and a good device for clearing rights-of-way that are composed of young undesirable species in a relatively uniform stand.			
Type III	Mowing	This technique is primarily used in areas of herbaceous vegetation. Terrain must be relatively flat with no gullies or rocks.			
Type IV	Mechanical whole-tree felling equipment	This method allows controlled felling and loading of whole trees while minimizing damage to adjacent trees. Where vegetation is cleared, erosion and sediment control measures will be installed and monitored until the topsoil is stabilized and can support grassy vegetation.			

Table 8.2 summarizes the tree and vegetation clearing methods for this Package. All vegetation and tree clearing and removal will follow the specifications in Section 8.1.

PACKAGE 2 - TREE CLEARING METHODS

1. GIS FEMA DATA NOT AVAILABLE FOR WASHINGTON COUNTY, FEMA FIRM MAPS ARE PROVIDED IN APPENDIX D OF THE STORMWATER POLLUTION PREVENTION PLAN WHICH IS INCLUDED IN APPENDIX G OF THE EM&CP.

PACKAGE 2 – FEMA

1. SECTION 11.0 AND APPENDIX O DESCRIBE THE CULTURAL RESOURCES IDENTIFIED WITHIN THIS PACKAGE AND THE BEST MANAGEMENT PRACTICES TO FOLLOW TO PROTECT THESE RESOURCES. SECTION 11.3 AND 11.4 DESCRIBE THE PROCEDURES TO FOLLOW DURING THE UNANTICIPATED DISCOVERY OF ARCHEOLOGICAL RESOURCES OR HUMAN REMAINS.

PACKAGE 2 – FEMA

	Table	8.3 – Tree and Vegetation Disposal Methods
Method Type	Method Title	Method Description
Type A	Construction Use	Logs may be utilized as needed during construction for wetland access, cribbing, retaining walls, or other uses. Following use, any logs unsuitable for firewood, saw logs, or chipping will be transported off the ROW to an approved disposal site (Appendix L).
Type B	Log Piles	Logs not needed for construction will be removed from the ROW to

		off the ROW to an approved disposal site (Appendix L).
Type B	Log Piles	Logs not needed for construction will be removed from the ROW to an approved disposal area (Appendix L).
Туре С	Sale	Where sufficient merchantable volume exists on the site, logs may be sold to a third party. Where appropriate and practical, and with the agreement of landowners, unsold logs will be hauled to accessible locations for salvage by the general public in accordance with the substantive requirements of 6 NYCRR Part 192.5, firewood restrictions to protect forests from invasive species.
Type D	Tree/Log Chipping	When logs cannot be reused or sold, they will be chipped on site. The resulting wood chips will be piled in upland areas within the ROW or transported off ROW to an approved disposal site (Appendix L). Wood chips will be spread three (3) to five (5) inches thick with fertilizer spread over the chips to minimize soil nitrogen depletion due to cellulose decomposition.
Type E	Vegetation Chipping	Vegetation including tree limbs may be chipped to reduce debris volume. See Type D for the disposal of chips.
Type F	Vegetation Hauling	Vegetation and stumps may be hauled to a NYSDEC approved location (Appendix L) or other suitable off-site location with the approval of the landowner and all applicable permitting agencies.
Type G	Vegetation Burial	Stumps may be buried on the ROW with landowner agreement. The burial areas will be sufficiently compacted and monitored after construction to assure that settling does not occur. Where significant settling after construction has been identified by the Construction Inspector et. al., finished grade will be reestablished using locally obtained run-of-bank material and/or topsoil and re-seeded as appropriate as specified in Sections 14.2. Areas where significant amounts of stump burial occur will be noted on As-Built drawings and monitored for settling during ROW condition surveys and maintenance activities.

Note: (1) Disposal Sites are listed in Appendix L. Table 8.3 describes the tree and vegetation disposal methods that may be used for this Package. The list of disposal locations included in Appendix L will be submitted to DPS and NYSDEC prior to construction.

PACKAGE 2 - TREE AND VEGETATION CLEARING AND DISPOSAL METHODS

Segment/	Recreational	Location (Approximate – see
Package	Area	Drawings for Details)
3/2	Recreational Area	20024+00 to 20025+00 (C-102)
512	Along the Canal	20024+0018 20023+00 (C-102)
	Champlain Canal Boat	
3/2	Lock #11	20032+25 to 20041+00 (C-103)
	(outside LOW)	
	Fort Ann Kayak	
3/2	Launch Docks	20293+00 to 20296+00 (C-120)
	(outside LOW)	
Note: Table	e 7.2 identifies the rec	reational areas within this Package
Sectio	n 7.2 describe the pro	ocedures to be followed within

recreational areas. Section 14.2.4 summarizes the cleanup and restoration procedures that will be followed after construction in a recreational area is complete.

PACKAGE 2 - RECREATIONAL AREAS

NOTES:

- 1. SECTION 12.2 ROAD & HIGHWAY CROSSING & 13.3 UTILITY CROSSINGS OF THE EM&CP DESCRIBES THE MITIGATION MEASURES THAT WILL BE FOLLOWED FOR ALL TRANSPORTATION AND UTILITY CROSSINGS.
- 2. TABLE 13.2 IN THE EM&CP DESCRIBES THE RAILROAD CROSSINGS THAT WILL OCCUR WITHIN THE PHASE 1 SEGMENT. SECTION 13.2 OF THE EM&CP SUMMARIZES THE MITIGATION MEASURES THAT WILL BE FOLLOWED FOR ALL RAILROAD CROSSINGS. THERE WERE NO IDENTIFIED RAILROAD CROSSINGS WITHIN THE LIMITS OF PACKAGE 2
- 3. TABLE 13.1 IN THE EM&CP DESCRIBES THE UTILITY CROSSINGS THAT WILL OCCUR WITHIN THE PHASE 1 SEGMENT. SECTION 13.3 OF THE EM&CP SUMMARIZES THE MITIGATION MEASURES THAT WILL BE FOLLOWED FOR ALL UTILITY CROSSINGS. ADDITIONALLY THESE UTILITY CROSSING CAN BE FOUND ON THE PLAN AND PROFILE SHEETS C-101 TO C-127.

PACKAGE 2 - TRANSPORTATION AND UTILITY CROSSINGS

	No	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	
SPECIFIC DESCRIPTION OF THE ALTERATION.	0	12/16/2022	FINAL EM&CP SUBMISSION	JJE	JPR	\perp
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.						-

/	Description	Sheet Number	Location (Approximate – See Drawings for Details)	Vegetation/ Tree Clearing Method Type	Applicable Environment Sensitive Arv Requiremen
3/2	Tree Limb Trimming/Vegetation Clearing	C-101	20008+00 to 20009+50	Type IV	N/ A
3/2	Tree Limb Trimming/Vegetation	C-101 to C- 102	20014+00 to 20015+50	Type IV	N/ A
3/2	Tree Limb Trimming/Vegetation Clearing	C-102 to C- 104	20021+00 to 20052+00	Type III	N/A
3/2	Tree Limb Trimming/Vegetation	C-107	20094+40 to 20101+00	Type IV	N/A
PackageTree Lim3/2Tree & Vege3/2Tree & Vege3/2Tree & Vege		C-108 to C- 109	20117+00 to 20128+25	Type I, Type II, and Type IV	Wetland
3/2	Tree & Vegetation	C-111 to C- 112	20162+00 to 20179+00	Туре І	Wetlands
3/2	Tree & Vegetation Clearing	C-113	20183+50 to 20195+00	Type I or II	A gricultural Lan
3/2	Tree & Vegetation Clearing	C-114	20200+00 to 20201+00 (Along Access Road)	Type IV	N/A
3/2	Tree & Vegetation Clearing	C-114 to C- 117	20207+25 to 20220+00; 20221+00 20249+ 50	Type I, Type II, and Type IV	Wetlands
3/2	Tree & Vegetation Clearing	C-118 to C- 119	20263+00 to 20281+50	Type IV	N/A
3/2	Tree & Vegetation Clearing	C-120	20289+50 to 20295 +00	Type IV	N/A
3/2	Tree & Vegetation Clearing	C-118 to C- 119	20263+00 to 20281+50	Type IV	N/A
3/2	Tree & Vegetation ClearingTree & Vegetation Clearing	C-120 to C- 123	20296+00 to 20332+25	Type I or II	Wetlands
3/2	Tree & Vegetation Clearing	C-123 to C- 128	20337+00 to 20382+50; 20383+00 to 20421+00	Type I or II	Wetlands, Ag lar
3/2	Tree & Vegetation Clearing	C-129 to C- 134	20424+00 to 20497 +00	Type I or II	Wetlands, Agricul Lands
3/2	Tree Limb Trimming/Vegetation Clearing	C-134	20499+00 to 20502+00 (Along Access Road and HDD#16 entry pit)	Type I or II	Agricultural Lan
3/2	Tree & Vegetation Clearing	C-134 to C- 136	20505+00 to 20537+00	Type I or II	Wetlands, Agricul Lands
3/2	Tree & Vegetation Clearing	C-137	20540+00 to 20546+25 (Around Access Road and Splice Location 057)	Type I or II	Agricultural Lan Wetlands
3/2	Tree & Vegetation Clearing	C-137 to C- 144	20551+00 to 20648+50	Type I or II	Agricultural Lan Wetlands
3/2	Tree & Vegetation Clearing	C-144 to C- 147	20655+00 to 20697+00;	Type I or II	Agricultural Lan Wetlands
3/2	Tree & Vegetation Clearing	C-147 to C- 150	20702+00 to 20738+00	Type I or II	Wetlands, Agricul Lands
3/2	Tree & Vegetation Clearing	C-150 to C- 151	20749+00 to 20750+50 (Within HDD exit pit)	Type I or II	Agricultural Lan
3/2	Tree Limb Trimming/Vegetation Clearing	C-150 to C- 151	20750+50 to 20757+25	Type I or II	Agricultural Lan
3/2	Tree & Vegetation Clearing	C-152	20767+00 to 20780+00 (Along Access Road)	Type I, Type II, and Type IV	N/A
3/2	Tree & Vegetation Clearing	C-203	Along Access Road at 20182+00 East and West	Type I, Type II, and Type IV	N/A
3/2	Tree & Vegetation Clearing	C-204	Along Access Road at 20235+00	Type I, Type II, and Type IV	N/A
3/2	Tree & Vegetation Clearing	C-205	Along Access Road at 20280+00	Type I, Type II, and Type IV	N/A
3/2	Tree & Vegetation Clearing	C-206	Along Access Road at 20357+00	Type I, Type II, and Type IV	N/A
3/2	Tree & Vegetation Clearing	C-211	Along Access Road at 20576+00	Type I, Type II, and Type IV	N/A
3/2	Tree & Vegetation Clearing	C-212	Along Access Road at 20643+00	Type I, Type II, and Type IV	N/A
3/2	Tree & Vegetation Clearing	C-214	Along Access Road	Type I, Type II, and	N/A
3/2	Tree & Vegetation	C-216	Along Access Road	Type IV Type I, Type II, and Type IV	Agricultural Lan
3/2	Clearing Tree & Vegetation Clearing	C-217	Along Access Road at 20512+00	Type IV Type I, Type II, and Type IV	Wetlands, Agricul Lands

2. Stream Crossing: Section 8.2.1 and Section 9.1. 3. Threatened and Endangered Species/Sensitive Habitats: Section 9.3.

4. Agricultural Lands: Section 8.2.2.

1. Wetlands: Section 8.2.1 and 9.1.

PACKAGE 2 - TREE AND VEGETATION CLEARING LOCATIONS

describe the procedures that will be followed for these environmentally sensitive areas.

CHAMPLAIN HUDSON POWER EXPRESS SEGMENT 3 - PACKAGE 2 - FORT ANN TO KINGSBURY EM&CP DATA TABLES (1 OF 5)

KIEWIT PROJECT NO. 21162 CHA PROJECT NO. 066076 DRAWING NO.

G-011

12/16/2022

B

Method Type	Description	Dimensions	Construction Details
Construction Entrance	Construction entrance	16' standard or 20' perpendicular, 50' minimum length	Placed on geofabric12" thick minimum
Туре 1	Paved or existing gravel roads requiring minor or no maintenance (e.g., Parking lots, Local/state roads, Railroad or private gravel roads)	14' standard, 16' splice access, 20' perpendicular	• 0'' to 6'' of gravel
Type 2	Existing railroad and gravel access roads	14' standard, 16' splice access, 20' perpendicular	 Spot fill & re-grading required Soil stripping, filter fabric, and gravel surfacing required in new area 6" of gravel
Type 3	Proposed new roads (roads shown in places without existing access)	14' standard, 16' splice access, 20' perpendicular	 Soil stripping on average to be 4" Cut slopes based on type of material encountered but no steeper than ½ h to 1 v Fill slopes based on type of material encountered but no steeper than 1 h to 1 v Placed on geo-fabric 12" of gravel
Type 4	Temporary construction access through wetlands, streams, or marshy terrain	14' standard, 16' splice access, 20' perpendicular	 Utilizing standard timber 8"x4'x16' crane mats 3-ply matting may be used as a substitute (except when crossing streams)
Туре 4А	Temporary construction access through wetlands, streams, or marshy terrain when matting is not practical (e.g., sinking mats). Used only in extreme cases; typically, will only be implemented after a Type 4 road has been attempted and determined to be unsuitable.	14' standard, 16' splice access, 20' perpendicular	•Filter fabric •2' of rip-rap •4" of gravel to top off
Type 5	Temporary construction access through agricultural fields	14' standard, 16' splice access, 20' perpendicular	• 3-ply mats or timber matting; requires mowing to establish road

Note: Table 4.5 summarizes each access road type, its dimensions, and proposed use, and additional construction details. Section 4.10 describes the procedures to be followed during the construciton of all access roads

PACKAGE 2 - ACCESS ROAD TYPES

Table 5.2 – Construction Materials and Equipment Staging Locations

begment/ Package	Location (Approximate- see Drawings for Details)	Sheet Number	Staging Area Description	
3/2	20004+95	C-101	HDD-9 Entry Are	
3/2	20010+50	C-101	HDD-9 Exit Area	
3/2	20075+10	C-106	HDD-10 Entry Are	
3/2	20087+40	C-106	HDD-10 Exit Area	
3/2	20104+90	C-107 to C-108	HDD-11 Entry Are	
3/2	20116+90	C-108	HDD-11 Exit Area	
3/2	20178+50	C-112	HDD-12 Entry Are	
3/2	20187+70	C-113	HDD-12 Exit Area	
3/2	20193+10	C-113	HDD-12A Entry A1	
3/2	20207+90	C-114	HDD-12A Exit Are	
3/2	20248+75	C-117	HDD-13 Entry Are	
3/2	20263+90	C-118	HDD-13 Exit Area	
3/2	20281+00	C-119	HDD-13A Entry A1	
3/2	20290+25	C-120	HDD-13A Exit Are	
3/2	20292+00	C-120	HDD-14 Entry Are	
3/2	20300+10	C-120 to C-121	HDD-14 Exit Area	
3/2	20331+25	C-123	HDD-14A Entry A1	
3/2	20337+40	C-123	HDD-14A Exit Are	
3/2	20418+10	C-128	HDD-15 Entry Are	
3/2	20424+30	C-129	HDD-15 Exit Area	
3/2	20499+00	C-134	HDD-16 Entry Are	
3/2	20505+40	C-134	HDD-16 Exit Area	
3/2	20546+00	C-137	HDD-17 Entry Are	
3/2	20551+60	C-137	HDD-17 Exit Area	
3/2	20649+00	C-144	HDD-18 Entry Are	
3/2	20655+20	C-144	HDD-18 Exit Area	
3/2	20696+60	C-147	HDD-19 Entry Are	
3/2	20702+60	C-147	HDD-19 Exit Area	
3/2	20737+30	C-150	HDD-20 Entry Are	
3/2	20749+30	C-150	HDD-20 Exit Area	
3/2	20756+50	C-151	HDD-21 Entry Are	
3/2	20776+25	C-152	HDD-21 Exit Area	
3/2	20780+00	C-152 to C-153	HDD-21A Entry A	
3/2	20799+30	C-154	HDD-21A Exit Are	
3/2	20466+00	C-201	Kingsbury Showu Yard	

Note: Table 5.2 summarizes the locations of where construction materials and equipment will be temporarily staged during the construction of this Package. Section 5.4 summarizes the procedures that will be followed for the storage and staging of all construction materials and equipment.

PACKAGE 2 - CONSTRUCTION MATERIAL AND EQUIPMENT STAGING LOCATIONS







Segment /Package	Sheet Number	(App see I
3/2	C-101	(End o 15305+
3/2	C-112	20177+
3/2	C-112/C-113 & C-203	
3/2	C-113 to C-119	20182+
3/2	C-114 & C-204	
3/2	C-116 & C-204	
3/2	C-119 & C-205	2
3/2	C-120	20290+
3/2	C-120 to C-123	20296+
3/2	C-122	
3/2	C-123 to C-126	20339+
3/2	C-124 & C-206	
3/2	C-126 to C-129	20382+
3/2	C-128/C-129 & C-207	2
3/2	C-129 to C-134	20425+
3/2	C-130 & C-208	2
3/2	C-132 & C-209	2
3/2	C-134 to C-141	20502+
3/2	C-135 & C-210	
3/2	C-138 & C-211	2
3/2	C-141 to C-144	20614+
3/2	C-143 & C-212	2
3/2	C-144 to C-150	20655+
3/2	C-145 & C-212	
3/2	C-148 & C-213	
3/2	C-150 to C-151	20747+
3/2	C-214 to C-217	
Notes: Tab	ble 4.6 below ide that are	ntifies e perpen

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	Table 4.6 – Access Roads				
Access Road Description	Land Owner	Type of Access Road	Impacts to Environmentally Sensitive Areas	Impacts to Agricultural Land	Access Road Crosses Railroad
Access Road	Delaware & Hudson Railway Corp.	Temporary; Type 3	No	No	No
Access Road	Delaware & Hudson Railway Corp.	Temporary; Type 3	No	No	No
Access Road at 20182+00 West and East	Jenkinsville Sand & Gravel	Temporary; Type 3	No	No	No
Access Road Parallel to Tracks	Jenkinsville Sand & Gravel, George W. Sherwood	Temporary; Type 3, 4, 5	Yes-Wetland G-R-DD & G-R-EE Stream G-R- SP		No
Access Road at 20204+00	William R. Graves, George W. Sherwood	Temporary; Type 3	No	No	No
Access Road at 20235+00 (East)	National Grid	Temporary; Type 3	No	No	No
Access Road at 20280+00	State of New York	Temporary; Type 3	Yes - Wetland P2-E	No	No
Access Road to Ann Street, Parallel to Tracks	New York, Delaware & Hudson Railw	Temporary; Type 3	No	No	No
Access Road from Ann Street, Parallel to Tracks	Village of Fort Ann, State of New York, Delaware & Hudson Railway Corp.	Temporary; Type 3, 4	Yes-Wetlands G-R- FF, G-R-GG, Stream G- R-S-R, G-R-S-S	No	No
At Grade Crossing of Tracks	Delaware & Hudson Railway Corp.	Temporary; Type 3	No	No	Yes
Access Road Parallel to Tracks	Delaware & Hudson Railway Corp., Land of Walker Farms, LLC Timothy E. Barrett	Temporary; Type 3	Yes - Wetland CC	Yes	No
Access Road at 20357+00	Delaware & Hudson Railway Corp., New York State Old Canal, Walker Farms LLC	Temporary; Type 3, 5	Yes- Wetland CC	Yes	No
Access Road Parallel To Tracks	Timothy E Barrett, Michael B. Wall, Robert C. Lalonde, CVLand Holdings LLC	Temporary; Type 3, 5	Yes - Wetland CD	Yes	No
Access Road at 20419+50	CVLand Holdings LLC	Temporary; Type 3, 5	No	Yes	No
Access Road Parallel To Tracks	CVLand Holdings LLC, Valentin Kuster, West Main Street LLC, Peckham Materials Corp., Delaware & Hudson Railway Corp.	Temporary; Type 3, 4, 5	Yes-Wetlands G-R- LL & G-R-MM	Yes	No
Access Road at 20446+00	Valentin Kuster	Temporary; Type 3, 4,		Yes	No
Access Road at 20466+00	West Main Street LLC	Temporary; Type 3, 4, 5		Yes	No
Access Road Parallel To Tracks	State of New York, Lucy H. Burch, Nancy L. Grahm-Bruno, Deborah M. Havens	Temporary; Type 3, 4, 5	Yes-Wetlands G-R- NN & G-R-QQ	Yes	No
Access Road at 20512+00	Lucy H. Burch	Temporary; Type 3, 4, 5	Yes-Wetland G-R-NN	Yes	No
Access Road at 20576+00	Lucy H. Burch	Temporary; Type 3, 5	No	Yes	No
Access Road Parallel To Track	Ryan H. Bradley, State of New York, Delaware & Hudson Railway Corp.	Temporary; Type 3, 4	Yes-Wetland G-R-RR	No	No
Access Road at 20643+00	Ryan H. Bradley	Temporary; Type 3	No	No	No
	Ryan H. Bradley, Joseph P. Porlier, Delaware & Hudson Railway Corp., Bryan Boyce, Bill Rogers, Mary Hurley	Temporary; Type 3, 4	Yes -Wetland G-R- RR	No	No
Access Road at 20674+00	Joseph P. Prolier	Temporary; Type 3	No	No	No
Access Road at 20707+00	Dorothy M. Crowley	Temporary; Type 3, 5	No	Yes	No
Access Road Parallel to Track	Daniel L. Ripley, Mary Hurley	Temporary; Type 3, 4	Yes – Wetland G-R-S- Z	No	Yes
Splice Location 064 Access Road off Towpath Lane	Mary Hurley,	Temporary; Type 3	No	No	No
	DescriptionAccess RoadAccess Road at20182+00 West and20182+00 West and20182+00 West andCorracksAccess Road ParallelCorracksAccess Road at20204+00Access Road at20235+00 (East)Access Road at20280+00Access Road formStreet, Parallel to TracksAccess Road formArcess Road formArcess Road Parallel to TracksAccess Road Parallel to TracksAccess Road Parallel to TracksAccess Road Parallel to TracksAccess Road at 20357+00Access Road at 20357+00Access Road at 20357+00Access Road at 20357+00Access Road at 20419+50Access Road at 20576+00Access Road at 20643+00Access Road at 20674+00Access Road At 20674+00 <td>Access Road DescriptionLand OwnerAccess RoadDelaware & Hudson Railway Corp.Access Road at 20182400 West and EastJenkinsville Sand & Gravel, George W. SherwoodAccess Road at 20204400Jenkinsville Sand & Gravel, George W. SherwoodAccess Road at 20204400William R. Graves, George W. 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each proposed access road this Package, their locations, their access road type from Table 4.5, and any sensitive areas that are crossed. For access roads ndicular to the alignment, the disturbance zone in which sensitive areas was evaluated begins at the end of the Railroad or Road ROW.

PACKAGE 2 - ACCESS ROAD

	-	Table 4.2 - Structures within 100 I	Feet of HDD or T	renching Operation	15
HDD#/ Trench	Structure	Parcel/Owner	Sheet Number	Location (Approximate – see Drawings for Details)	Notes
HDD #9	Private Residence	86.1-1-8/Roger M. Harrington	C-101	20006+75	West Side of N Old Route 4
HDD #9	Private Residence	861-9/Evelyn A. Constantino	C-101	20009+00	West Side of N Old Route 4
HDD #9/ Trench	Private Residence/ Garage/Sheds	861-9.1 & 863-3/Ray & Joan Baker	C-101	20012+00	West Side of N Old Route 4
Trench	Private Residence	863-2/Jay P. Manell	C-101	20014+00	West Side of N Old Route 4
Trench	Pool -Private Residence	863-2/Jay P. Manell	C-101	20015+00	West Side of N Old Route 4
Trench	Private Residence	863-8/Russell R. Pond	C-102	20017+00	West Side of N Old Route 4
Trench			C-102 to C104	20025+75 to 20049+00	East Side of N Old Route 4
Trench	Canal Lock #11	864-3/State of New York	C-103	20034+50 to 20038+00	East Side of N Old Route 4
Trench	Private Residence	951-13.2/ Michael A., SR. & Christine Wells	C-106	20077+00	West Side of N Old Route 4
HDD #10/ Trench	Private Residence	951-13.3/Michael A., SR. & Christine Wells	C-106	20079+50	West Side of N Old Route 4
Trench	Shed – Private Residence	951-4/Richard E. & William R. Graves	C-109	20131+50	West Side of N Old Route 4
Trench	Private Residence/Sheds	951-5/Richard E. & William R. Graves	C-109	20133+00	West Side of N Old Route 4
Trench	Industrial Building	1041-7/Terra Materials Group, Inc.	C-111	20160+00	West Side of N Old Route 4
Trench	Private Residence	1041-6/Robert S., SR. Loomis	C-112	20167+50	West Side of N Old Route 4
Trench	Barge Loading Facility	1041-8/Washington County	C-112	20169+50	East Side of N Old Route 4
Trench	Private Residence	1031-5/George W. Sherwood	C-113	20193+50	West Side of Flat Rock Road
HDD #12A	Private Residence/Sheds	1031-8/George W. Sherwood	C-114	20196+00 to 20197+00	East Side of Flat Rock Road
HDD #13	Shed – Private Residence	112.10-4-1/Marie E. Brooking	C-120	20287+75	Side of Canal Street
HDD #13	Shed – Private Residence	112.10-4-1/Marie E. Brooking	C-120	20288+75	East Side of Canal Street
HDD #14	Park Structures	112.10-4-5/Delaware & Hudson Railway Corp.	C-120	20295+00	Champaign Canal Waterfront Park (Fort Ann)/North of Ann Street
Trench	Railcar Loading Facility	112.10-5-9/American Rock Salt Co., LLC	C-121	20305+50	East Side of Canal Street
HDD #16/ Trench	Industrial Building	1303-7.5/Peckham Materials Corps.	C-134	20497+50	East Side of NYS Route 149
HDD #16	Private Residence	1391-12/Scott M. Lindsay	C-134	20501+50	East Side of NYS Route 149
Trench	Shed – Industrial Building	1391-3.1/Blue Eyes Six Holdings, LLC	C-135	20515+75	East Side of Towpath Road
HDD #17	Abandoned Building	1381-20/Kenneth Sullivan	C-137	20549+50	East Side of Towpath Road
HDD #17	Private Residence	1381-20/Kenneth Sullivan	C-137	20550+00	East Side of Towpath Road
Trench	Private Residence/Sheds	1551-8/Bill Rogers	C-148	20716+00 to 20717+00	East Side of Towpath Road
HDD #20	Private Residence & Electrical Building/Shed	1551-14.1/Daniel Ripley	C-150	20741+00	South Side of Rabideau Lane

Note: Table 4.2 identifies the building structures located within 100 feet of trenching and HDD activities for this Package. Section 4.3.2 summarizes the procedures for vibration monitoring where applicable.

PACKAGE 2 - STRUCTURES WITHIN 100 FEET OF HDD OR TRENCHING OPERATIONS

	Table 4.1 - HDD Locations								
Segment/ Package	HDD Designation	HDD Length (feet)	Reason for HDD	Sheet Number	Location (Approximate- see Drawings for Details)				
3/2	HDD-9	548, 552	Culvert	C-101 to C-101	20004+95 to 20010+50				
3/2	HDD-10	1210, 1240	Road	C-106	20075+10 to 20087+40				
3/2	HDD-11	1200	Culvert & Canal	C-107 to C-108	20104+90 to 20116+90				
3/2	HDD-12	705, 920	RR Crossing	C-112 to C-113	20178+50 to 20187+70				
3/2	HDD12A	1492	Rock Face & Culvert	C-114	20193+10 to 20207+90				
3/2	HDD-13	1513, 1525	Culvert	C-117 to C-118	20248+75 to 2063+90				
3/2	HDD-13A	914, 925	Bridge	C-119 to C-120	20281+00 to 20290+25				
3/2	HDD-14	705, 819	RR Crossing & Road Crossing (at-	C-120	20292+00 to 20300+10				
3/2	HDD-14A	612	RR Crossing	C-123	20331+25 to 20337+40				
3/2	HDD-15	624, 627	Wetlands	C-128 to C-129	20418+10 to 20424+30				
3/2	HDD-16	619, 641	Culvert & Wetlands	C-134	20499+00 to 20505+40				
3/2	HDD-17	575, 662	Culvert & Wetlands	C-137	20546+00 to 20551+60				
3/2	HDD-18	614, 620	Culvert & Water	C-144	20649+00 to 20655+20				
3/2	HDD-19	590	Culvert & Wetlands	C-147	20696+60 to 20702+60				
3/2	HDD-20	1,200	Road & Water	C-150	20737+30 to 20749+30				
3/2	HDD-21	1975	Wetlands	C-151 to C-152	20756+50 to 20776+25				
3/2	HDD-21A	1965	Wetlands	C-152 to C-154	20780+00 to 20799+30				

4.3.1, and the BMP document.

	No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	DRA
SPECIFIC DESCRIPTION OF THE ALTERATION.	0	12/16/2022	FINAL EM&CP SUBMISSION	JJE	JPR	
AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A						
ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT						
OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS						
PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT						
IT IS A WOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED						

Note: Table 4.1 describes the locations of HDD activity within this Package. HDD will be performed in accordance with the Horizontal Direction Drilling Site Investigation and Planning Report and Inadvertent Release and Contingency Plan in Appendix J, the specifications described in Section

PACKAGE 2 - HDD LOCATIONS

CHAMPLAIN HUDSON POWER EXPRESS SEGMENT 3 - PACKAGE 2 - FORT ANN TO KINGSBURY

EM&CP DATA TABLES (2 OF 5)

KIEWIT PROJECT NO. 21162 CHA PROJECT NO. 066076 DRAWING NO.

G-012

DATE

B

RAWN BY:

SCALE REV. NO.

12/16/2022

Status	ESA Type	Location	Best Management Practices	Impacts	Species Name (Scientific	
			a) Conduct tree clearing and tree trimming activities between October 31 and March 31. Tree clearing and tree trimming activities are not		Name)	Wetland Wetlan
		Assumed to be roosting habitat	allowed between April 1 and October 30. ⁶			Wet
Federal/State		located throughout the Project	b) During the preconstruction survey, the contractors would identify	NT		Wet We
Endangered	ESA 4	Corridor (P2: 20000+00 to	large live or dead trees with peeling bark, including large specimens of shagbark hickory (Carya ovata), with the potential to serve as	None		
		20796+50)	maternity or roost trees and these would be marked. Potential roost			
			trees identified within the construction limits would be avoided where possible during construction activities.			
			a) Conduct tree clearing and tree trimming activities between October			
			31 and March 31. Tree clearing and tree trimming activities are not			
		Assumed to be roosting habitat	allowed between April 1 and October 30. ⁶			
Federal/State Threatened	ESA 9	located throughout the Project Corridor (P2: 2000)+00 to	b) During the preconstruction survey, the contractors would identify large live or dead trees with peeling bark, including large specimens	None	purple loosestrife	
Threatened		20796+50)	of shagbark hickory (Carya ovata), with the potential to serve as		(Lythrum salicaria)	
			maternity or roost trees and these would be marked. Potential roost trees identified within the construction limits would be avoided where			
			possible during construction activities.			
Federal	ESC –	Assumed to be habitat in various open areas located throughout	a) None proposed due to current status as a candidate species and			
Candidate	Candidate	the Project Corridor (P2: 20000+00	no critical habitat identified by USFWS. Additionally, not listed as a	None		
	Insect	to 20796+50)	State protected species. a) Prior to construction, the Certificate Holders would identify all nest		-	
			locations within 0.5 miles (0.8 kilometers [km]) of construction, based			
			on data provided by the NYNHP. b) If any blasting activities are percessery within 0.5 miles (0.8 km) of			
			b) If any blasting activities are necessary within 0.5 miles (0.8 km) of active nests, the Certificate Holders would contact USFWS and			
			NYSDEC for guidance to avoid or minimize the potential for noise-			W
			related disturbance. c) If construction would occur within 660 feet (201 meters) of an			Wetland
Federal –		NHP documented nesting within	active nest during the nest-building or breeding season (December to		common reed	Wetla
MBTA, XX	ECA 1	0.5 mile of project alignment in	August) per USFWS guidelines, the Certificate Holders would	NT	(Phragmites australis)	
Protection Act, State-	ESA 1	Town of Glenville, Schenectady	contact USFWS and NYSDEC for guidance to avoid and minimize the potential for noise-related disturbance.	None		
Threatened		County (20457+00 to 20561+00)	d) Environmental training for contractors and construction crews			
			would include training on the identification of ESA 1 and location of nests. Construction personnel would be instructed to report any		Narrow-leaf cattail (<i>Typha angustifolia</i>)	
			sightings of potential nests that were not previously identified by the			
			NYNHP. e) If any previously unidentified nests are discovered, the Certificate		Eurasian buckthorn	
			Holders would report findings to the NYNHP as soon as possible,		(Rhamnus cathartica)	
			a) No suitable habitat within the Project Corridor.			
State-	ESA 8	20680+00 to 20729+00	b) No Impacts Anticipated			
Threatened	LOA O	200801001020729100	c) NHP documented breeding along Dike Road about 150 yards from			
			the alignment, northeast of Dunham Basin in the Town of Kingsbury.		-	
			a) No suitable habitat within the project corridor.b) No Impacts Anticipated.			
State- Endangered	ESA 12	N/A	c) NHP documented wintering at the Fort Edward Grasslands. NHP	None		
Entrangered			mapped area extends to within 1/3 mile of the project alignment			
			northeast of Dunham Basin in the Town of Kingsbury.			
			a) Prior to construction, an exclusionary fence will be installed along the work area to prevent foraging ESA14 individuals from entering			
			the work area. The fence should be in place between March 31st and		Tatarian honeysuckle	
			November 1st and left in place until work is completed within a given active construction area. All fencing should be removed upon		(Lonicera tatarica)	
			completion and stabilization of construction areas.			
			b) The Environmental Inspector will inspect the work area daily for			
			the presence of ESA 14. If an ESA 14 is found within the work area, the Environmental Inspector will contact a licensed ESA 14 biologist			
State- Threatened	ESA 14	20115+50 to 20120+00	to remove ESA 14 from the construction area prior to the start of	None		
Threatened			work. c)Environmental training for Contractors and construction crews will			
			include training on the identification of ESA 14. Construction			
			personnel will be instructed to stop work immediately if a ESA 14 is			
			found within the construction area. d) If any ESA 14 are discovered, the Certificate Holders and			
			associated Contractors will report findings to the NYSDEC within 24			
			hours and consult with the NYSDEC for guidance to avoid and/or minimize the potential for disturbance.			
			a) NHP documented in Champlain Canal at Smiths Basin and at Lock		Note: Table 9.4 identifies the loc	cations of
State- Threatened	N/A-Fish	20473+00 to 20554+00	9, both within 160 yards of the alignment.	None	within this Package. Section 9.3	
			b) 100% avoidance anticipated.		the spread of invasive species.	
Unlisted/			a) 100% avoidance. Documented in 2008 in unnamed water body approximately 0.6 miles south of Comstock, between Route 4 and the		PACKAGE 2 – AQUATIO	ли
Conservation Concern Rare	N/A - Fish	N/A	railroad. Project alignment is along Old Route 4, east of the railroad	None	$\frac{1}{1} = \frac{1}{1} = \frac{1}$	י אוו כ
			and will not impact this water body.		4	
Unlisted/ Conservation	N/A-	N/A	a) NHP documented in Champlain Canal @ Lock 11.	None		
Concern Rare	Insect		b) 100% avoidance of aquatic larval stage.	110110		
		l	that may be encountered on or in the vicinity of this Package. Section 9	2 1		

Note. Table 9.3 identifies the federal and state listed species that may be encountered on or in the vicinity of this Package. Section 9.3 and Appendix T describe the habitat for these species and the procedures that will be followed to minimize the impact on these species. (6) In the event of an unanticipated emergency that requires tree clearing or tree trimming during April 1 to October 30, the procedures describe in Section 8.2 will be followed.

<u>PACKAGE 2 – FEDERALLY LISTED AND STATE LISTED SPECIES</u>







Location	
ID & Wetland Flag IDs (if applicat	
d G-R-X (1PPPP– 11111): 15111+50 to 15115+0 land G-R-U (13 – 29): 15142+00 to 15172+00	0
tland G-R-X (5 – 30): 15227+00 to 15280+75	
tland G-R-Y (1 – 11): 15282+00 to 15297+00 Wetland CNNN (20049+00, C-402)	
Wetland COOO (20054+75, C-402)	
Wetland CPPP (20062+00, C-403)	
Wetland CSSS (20083+50, C-403)	
Wetland CUUU (20091+50, C-404)	
Wetland CWWW (20093+75, C-404)	
Wetland CBZ (20141+00, C-405)	
Wetland CCZ (20146+50, C-405)	
Wetland GR-AA (20225+50, C-408)	
Wetland GR-BB (20231+00, C-408) Wetland GR-DD (20240+50, C-409)	
Wetland GR-EE (20270+00, C-409)	
Wetland GR-EE (20276+00, C-409) Wetland GR-FF (20296+25, C-410)	
Wetland GR-GG (20308+25, C-411)	
Wetland GR-LL (20465+00, C-416)	
Wetland GR-OO (20548+50, C-419)	
Wetland GR-PP (20581+50, C-420)	
Wetland GR-QQ (20609+25, C-421)	
Wetland GR-RR (20613+50, C-421)	
Wetland GR-SS (20757+25, C-426)	
etland G-R-S (3-13): 15084+00 to 15093+00	
d G-R-X (1PPPP – 11111): 15111+50 to 15115+0	0
and CJJJ (5 – 9): 15305+50 – Const. Entrance	
Wetland CJJJ (20000+00, C-401)	
Wetland CSSS (20083+50, C-403)	
Wetland CUUU (20091+50, C-404	
Wetland CYYY (20110+00, C-404)	
Wetland CVVV (20088+75, C-403)	
Wetland CYYY (20110+00, C-404)	
Wetland CAZ (20139+00, C-405)	
Wetland CBZ (20141+00, C-405)	
Wetland CCZ (20146+50, C-405)	
Wetland CDZ (20155+25, C-406)	
Wetland CEZ (20161+50, C-406)	
Wetland CGZ (20165+75, C-406) Wetland CIZ (20176+00, C-406)	
Wetland GR-Z (201/6+00, C-408)	
Wetland GR-AA (20225+50, C-408)	
Wetland GR-BB (20231+00, C-408)	
Wetland GR-CC (20236+00, C-408)	
Wetland GR-DD (20240+50, C-409)	
Wetland GR-FF (20296+25, C-410)	
Wetland GR-GG (20308+25, C-411)	
Wetland GR-HH (20376+50, C-413)	
Wetland GR-II (20382+50, C-413)	
Wetland GR-KK (20425+00, C-415)	
Wetland GR-LL (20465+00, C-416)	
Wetland GR-MM (20473+00, C-416)	
Wetland GR-II (20382+50, C-413)	
Wetland GR-KK (20425+00, C-415)	
Wetland GR-LL (20465+00, C-416)	
Wetland GR-MM (20473+00, C-416)	
Wetland GR-NN (20503+50, C-417)	
Wetland GR-PP (20581+50, C-420)	
Wetland GR-QQ (20609+25, C-421)	
Wetland GR-QQ (20609+25, C-421) Wetland GR-RR (20613+50, C-421) Wetland GR-SS (20757+25, C-426)	

ations of invasive aquatic plants that were identified describes the procedures to be followed to reduce

NVASIVE SPECIES / LOCATION

		Table 9	9.2 – Summary of V	Vetland Impa	cts	
Wetland ID	Juris diction	Drawing Sheet Number and Approximate Station	Wetland Community Type ⁽¹⁾	Permanent ROW Impacts (square feet)	Temporary Construction Impacts (square feet)	State Wetland Buffer Temporary Construction Impacts (square feet)
			Old Route 4 – Pacl	kage 2		
COOO	USACE	20062+50 to 20065+20 (C-403)	PSS	0	4070	0
CWWW	USACE	20094+80 to 20096+20 (C-404)	PFO	0	2842	0
СҮҮҮ	USACE	20126+40 to 20127+70 (C-405)	PFO	0	2125	0
CBZ	USACE	20141+00 to 20158+00 (C-406)	PFO	0	1024	48525
CGZ	USACE, NYSDEC (FA- 13)	20165+00 to 20170+00 (C-406)	PFO	6010	3282	10,660
CA	USACE	20176+20 to 20177+00 (C-407)	PFO	264	796	0
CHZ	USACE	20178+50 (C-406)	PFO	0	0	0
		20217+00 to	CP Rail – Packa	ge 2		
G-R-Z	USACE	20217+0018 20217+90 (C-408) 20236+00 to	PFO	0	4748	0
G-R-CC	USACE	20238+50 (C-408)	PFO	0	2154	0
G-R-DD	USACE	20245+50+00 to 20249+30 (C-409)	PFO	2535	6507	0
G-R-EE	USACE	20277+50 to 20280+70 (C-410)	PFO	0	10368	0
G-R-FF	USACE	20296+50 to	PEM	930	3,957	0
		20300+10 (C-410)	PFO PEM	0	1836 0	0 0
G-R-GG	USACE	20308+60 to	PSS	0	0	0
		20332+40 (C-411)	PFO	1,286	22,682	0
CC	USACE	20339+00 to	PEM	0	12,277	0
cc	USACE	20381+00 (C-412 & C-413)	PSS	0	1,123	0
CD	USACE	20383+00 to 2020421+20 (C-413	PFO	3,128	9,951	0
CD	OBITEL	TO C-415	PSS	38,410	97,528	0
WLF-CE	USACE	20432+00 to 20437+00 (C-415)	PEM	7,912	14,646	0
WLF-CF	USACE	20438+70 to 20444+80 (C-415)	PEM	4,175	11,132	0
WLF-CG	USACE	20446+40 to 20447+30 (C-415)	PEM	502	2,632	0
WLF-CH	USACE	20451+70 to 20465+30 (C-416)	PEM	17,733	6,509	
WLF-P2	USACE	20465+30 to 20466+60 (C-416)	PSS	1114	3,381	0
G-R-MM	USACE	20473+31 to	PSS	26,211	52,184	0
G-R-NN	USACE	20495+00 (C-416) 20505+00 to 20536+50 (C-417 to C-418)	PEM	22,369	71,917	0
G-R-OO	USACE	20551+30 to 20552+80 (C-419)	PEM	4,540	0	0
G-R-OO	USACE	20563+80 to 20572+30 (C-419 & C-420)	PEM	5,218	0	0
G-R-PP	USACE	20587+00 to 20590+40	PEM	2,508	5,893	0
G-R-RR	USACE, NYDEC (HF- 10)	20614+50 to 20717+90 (C-421)	PEM	32,541	61497	374,912
G-R-SS	USACE	20758+00 to	PEM	0	0	0
0-12-00	USACE	20781+70 (C-426 to C-427)	PSS	0	0	0
PEM			98,428 ft^2 2.26 ac 65,735 ft^2	190460 ft ^2 4.37 ac 158,286 ft^2		
1 otal I	y Wetland Cor	mnunity Type	PSS PFO	1.51 ac 13223 ft^2 0.3 ac	3.63 ac 68315 ft^2 1.57 ac	434,097 sf 9.97 ac
		Total		0.3 ac 177,386 ft^2 4.07 ac	1.57 ac 417,061 ft^2 9.57 ac	
T - 4 (1) D		DCC	D-1	4.07 ac	9.57 ac	4.1.T.1.1.0.2.1

Note: (1) PEM - Palustrine emergent, PSS - Palustrine scrub-shrub, PFO - Palustrine forested. Table 9.2 describes the location and impact for each wetland within this Package. All construction related activity will follow the procedures described in Section 9.1.

PACKAGE 2 IMPACTS TO WETLANDS AND WATERBODIES

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	12/16/2022	FINAL EM&CP SUBMISSION	JJE	JPR	
	No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	DRA

CHAMPLAIN HUDSON POWER EXPRESS	KIEWIT PROJECT NO.
	21162
SEGMENT 3 - PACKAGE 2 - FORT ANN TO KINGSBURY	CHA PROJECT NO.
	066076
EM&CP DATA TABLES (3 OF 5)	DRAWING NO.
	G-013
SCALE AS NOTED	DATE 12/16/2022
RAWN BY: JJE DESIGNED BY: JTM APPROVED BY: JPR REV. NO. X	

Coordinating Parties	Description	Current Status
Certificate Holders, DPS Staff, NYSDOT	All plans and work to be performed in State-owned ROW under NYSDOT's supervision and management.	Ongoing throughout
Certificate Holders, DPS Staff, NYSDOT staff	Certificate Holders shall provide DPS Staff and NYSDOT staff with a preliminary design marked to avoid conflict with potential transportation projects that NYSDOT Staff may seek to undertake in the future and shall offer to consult with NYSDOT Staff concerning any comments it may offer and shall use reasonable efforts to accommodate any NYSDOT concerns (CC68).	Prior to filing any Segment EM&CP involving any such state-owned ROW.
Certificate Holders, NYSDOT, Agency crossed by Project	Certificate Holders will consult with each transportation department or agency having jurisdiction over any roads, related structures, and components that will be crossed by the Facility or used for direct access to the Construction Zone. If the access road takes direct access from, or lies within the limits of, such roads, the Certificate Holders will notify each relevant transportation department or agency of the approximate date when work will begin (CC69a).	During preparation of the EM&CP and when work begins.
Certificate Holders, NYSDOT, DPS Staff, NYSDEC	The Certificate Holders will provide status reports summarizing construction and indicating construction activities and locations scheduled for the next month (CC47).	Bi-weekly.

consultation is included in Appendix A.

PACKAGE 2 - NYSDOT COORDINATION SUMMARY

Table 12.3 – Road and Highway Crossings and Parallel Constru	iction
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Segment/	Municipalit		Road and Highway Cro	Crossing	Sheet	Location (Approximate see
Package	У	Jurisdiction	Description	Method	Number	Drawings for Details)
3/2	Town of Whitehall/To wn of Fort Ann	Fort Ann	North Old Route 4 & South Old Route 4 ROW Construction	Parallel Construction (Trenching in ROW)	C-101 to C- 112	20001+75 to 20178+00
3/2	Town of Fort Ann	Town of Fort Ann	North Old Route 4 ROW Construction	HDD#9	C-101	20005+00 to 20010+50
3/2	Town of Fort Ann	NYSDOT	Route 22 (NYSDOT road/highway) Crossing	HDD#10	C-106	20082+50
3/2	Fort Ann	Village of Fort Ann	Ann St & Railroad Crossing	HDD#14	C-120	20295+75
3/2	Kingsbury	Town of Kingsbury	Baldwin Corners Road Crossing	Open Trench	C-126	20382+50
3/2	Kingsbury	NYSDOT	Route 149 (NYSDOT road/highway) Crossing	HDD#16	C-134	20502+25
3/2	Kingsbury	Private Land Owner	Private Crossing	Open Trench	C-136	20537+10
3/2	Kingsbury	Town of Kingsbury	Towpath Road	Open Trench	C-136	20538+00
3/2	Kingsbury	Private Land Owner	Private Crossing	Open Trench	C-138	20563+60
3/2	Kingsbury	Private Land Owner	Private Crossing	Open Trench	C-139	20572+30
3/2	Kingsbury	Private Land Owner	Private Crossing	Open Trench	C-140	20597+25
3/2	Kingsbury	Town of Kingsbury	New Swamp Road	Open Trench	C-141	20613+40
3/2	Kingsbury	Private Land Owner	Private Crossing	Open Trench	C-143	20643+20
3/2	Kingsbury	Private Land Owner	Private Crossing	Open Trench	C-148	20714+50
3/2	Kingsbury	NYSDOT	Route 196 (NYSDOT road/highway) Crossing	HDD#20	C-150	20739+50
3/2	Kingsbury	Town of Kingsbury	Rabideau Lane Crossing	HDD#20	C-150	20740+25
3/2	Kingsbury	CP-Rail MP 58.37	Private Crossing	HDD#20	C-150	20746+50

Note: Table 12.3 describes the road and highway crossings within this Package. All road and highway crossings will follow the specifications in Section 4.4 and 12.2.

PACKAGE 2 - ROAD AND HIGHWAY CROSSINGS







Note: Table 13.1 describes the CI owners that were identified within this Package. Section 13.1 and Appendix R describe the consultation between CI owners and the Certificate Holders.

Table 13.1	Colocated	Infrastructure	Concultation	Summa
1 apre 13.1 –	Co-locateu	imitastructure	Constitution	Summa

Table 13.1 – Co-located Infrastructure Consultation Summary							
Owner	Utility	Initial Contact Date	CI Owner Response	Outreach Mailing #2	Outreach Mailing #3		
				1/27/22 email sent with .kmz digital map of route and request	7/11/22 (Pkg 1C) & 7/15/22 (Pkg 2)		
T&T	Fiber/ Telephone	9/9/21	Crossing conditions received	for records, data & information of CI along Project Corridor.	Plan & Profile drawings provided for review.		
evel 3 Communications (now umen Technologies)	Fiber	9/10/21	Support services agreement in place. Crossing conditions received. Reimbursement fund established.	1/27/22 email sent with .kmz digital map of route and request for records, data & information	7/11/22 (Pkg 1C) & 7/15/22 (Pkg 2)		
				of CI along Project Corridor.	Plan & Profile drawings provided for review.		
ational Grid/ East/ Electric	Electric	9/10/21	Crossing conditions received.	1/27/22 email sent with .kmz digital map of route and request for records, data & information of CI along Project Corridor. Received locations of overhead electric lines.	Consultations on going/ outreach not provided to date		
me Warner Cable (Charter ommunications/Spectrum)	Fiber/CATV	9/23/21	No action required until plans are available for review.	1/27/22 email sent with .kmz digital map of route and request for records, data & information of CI along Project Corridor.	7/11/22 (Pkg 1C) & 7/15/22 (Pkg 2) Plan & Profile drawings provided for review.		
erizon or Verizon/East	Telecom; Fiber/ Telephone	9/10/21	No action required until plans are available for review.	1/27/22 email sent with .kmz digital map of route and request for records, data & information of CI along Project Corridor.	7/11/22 (Pkg 1C) & 7/15/22 (Pkg 2) Plan & Profile drawings provided for review.		
ashington County	Route 4, Storm Sewers	5/31/21 Zoom Meeting	N/A	N/A	Plans and profiles were submitted to Washington County for review on 7/18/22.		
illage of Whitehall	Storm Sewer, Sanitary Sewer, Water Lines	10/7/21	N/A	N/A	Pkg 1C Plans and profiles were submitted for review on 7/11/22.		
own of Fort Ann	None	N/A	N/A	N/A	Plans and profiles were submitted for review on		
own of Kingsbury	None	N/A	N/A	N/A	Plans and profiles were submitted to Washington County for review on 7/18/22.		

PACKAGE 2 - CO-LOCATED INFRASTRUCTURE CONSULTATION SUMMARY

					CHAMPLAIN HUDSON POWER EXP
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT					SEGMENT 3 - PACKAGE 2 - FORT ANN TO KIN
OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS					EM&CP DATA TABLES (4 OF 5)
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.					
SPECIFIC DESCRIPTION OF THE ALTERATION.	0	12/16/2022	FINAL EM&CP SUBMISSION	JJE JPR	
	No.	. DATE	SUBMITTAL / REVISION DESCRIPTION	DB APP	DRAWN BY: JJE DESIGNED BY: JTM APPROVED BY: JPR REV. NO.

Table 13.2 - CP Railroad Crossings							
Segment /Package	\mathbf{U} massing \mathbf{U}	Crossing Method	Sheet Number	Location (Approximate see Drawings for Details)			
3/2	CP Rail MP 69.12- 68.99	HDD #12	C-112 to C-113	20178+50 to 20187+75			
3/2	CP Rail MP 66.97- 66.85	HDD #14/Ann Street	C-120	20291+50 to 20300+00			
3/2	CP Rail MP66.25 - 66.14	HDD #14A	C-123	20331+25 to 20338+75			

Note: Table 13.2 describes the CP Railroad crossings within this Package. Access roads that cross the railroad are described in Table 4.6 and Section 4.10. Section 13.2 describes the procedures that will be followed for all railroad crossings.

PACKAGE 2 – CP RAILROAD CROSSING

Table	Table 13.4 - Parallel Railroad Construction						
Railroad Owner	Railroad Milepost	Approximate Station Location (See Drawings for Details)					
CP Rail	MP 69.12 – MP 65.15	20180+00 to 20389+00 (C-113 to C-126)					
CP Rail	MP 64.03 – MP 63.55	20449+00 to 20473+00 (C-130 to C-132)					
CP Rail	MP 63.17 – MP 58.66	20493+50 to 20733+00 (C-133 to C-149)					

Note: Table 13.4 describes the parallel railroad construction within this Package. Section 13.2 describes the procedures to be followed during all parallel railroad construction.

PACKAGE 2 - PARALLEL RAILROAD CONSTRUCTION

Table 13.3.	Segment 3	CP Rail	Coordination	Summary
Table 10.03	Segnene		coordination	Summary

Coordin ating Parties	Description	Current Status
CP Rail, Certificate Holders	provided construction requirements including a minimum 6.6 feet of separation from centerline of track.	Regular meetings to discuss project; Plans and Profiles have been provided for review and comment.
CP Rail, Certificate Holders	6	Regular meetings to discuss project

Rail. To the extent practicable, construction of the Project will be conducted in accordance with the policies and guidelines identified in Appendix U so as to avoid any interference with interruption, or endangerment of any CP operations and facilities. If any procedure outlined in Appendix U cannot be followed, the Certificate Holders will seek a waiver and/or approval from CP Rail. The Certificate Holders will continue to coordinate directly with

PACKAGE 2 - CP RAIL COORDINATION SUMMARY

(PRESS IGSBURY

KIEWIT PROJECT NO. 21162 CHA PROJECT NO. 066076 DRAWING NO.

G-014

12/16/2022

В

AS NOTED DATE

		Location (Approximate - See Drawings for Details)			
Utility Type Underground (UG) Overhead (OH)	Parallel or Perpendicular to the Alignment	Station - Starting Point for Parallel and Crossing Point for Perpendicular	Station - Ending Point for Parallel		
OH Utility (Electric)	Perpendicular	20004+05	N/A		
OH Utility (Fiber)	Perpendicular	20004+03	N/A N/A		
UG Utility (Telephone)	Parallel	20006+75	20023+00		
Storm Drainage	Perpendicular	20007+75	N/A		
Pipe/Culvert	Ferpendiculai	20007+75	IN/A		
Storm Drainage	Perpendicular	20014+80	N/A		
Pipe/Culvert Storm Drainage	1				
Pipe/Culvert	Perpendicular	20022+70	N/A		
OH Utility (Electric)	Perpendicular	20022+98	N/A		
Storm Drainage	Perpendicular	20026+70	N/A		
Pipe/Culvert	•				
OH Utility (Electric)	Parallel	20004+00	20048+25		
OH Utility (Electric)	Perpendicular Barrandiaular	20028+41	N/A N/A		
OH Utility (Electric) OH Utility (Electric)	Perpendicular Parallel	20030+71 20031+70	20033+10		
OH Utility (Electric)	Perpendicular	20031+70	N/A		
OH Utility (Telephone)	Perpendicular	20038+94	N/A		
OH Utility (Electric)	Perpendicular	20047+61	N/A		
OH Utility (Electric)	Parallel	20052+00	20056+00		
OH Utility (Electric)	Perpendicular	20059+83	N/A		
Storm Drainage	Perpendicular	20072+65	N/A		
Pipe/Culvert	-				
Uknowm Utility	Perpendicular	20073+00	N/A		
Storm Drainage	Perpendicular	20080+75	N/A		
Pipe/Culvert	-				
OH Utility (Electric)	Perpendicular	20081+58	N/A		
Water Line	Perpendicular	20082+50	N/A		
<u>UG Utility (Electric)</u> Uknowm Utility	Perpendicular Perpendicular	20082+86 20083+00	N/A N/A		
OH Utility (Electric)	Perpendicular	20083+00	N/A N/A		
Storm Drainage	•				
Pipe/Culvert	Perpendicular	20106+52	N/A		
OH Utility (Electric)	Perpendicular	20106+95	N/A		
Storm Drainage	•	20112-00			
Pipe/Culvert	Perpendicular	20112+00	N/A		
OH Utility (Electric)	Perpendicular	20120+00	N/A		
OH Utility (Electric)	Perpendicular	20131+15	N/A		
OH Utility (Electric)	Perpendicular	20133+95	N/A		
Storm Drainage	Perpendicular	20134+25	N/A		
Pipe/Culvert	Parallel	2012(+50	20175+00		
UG Utility (Telephone) OH Utility (Electric)	Perpendicular	20136+50 20138+60	20175+00 N/A		
OH Utility (Electric)	Perpendicular	20139+25	N/A		
OH Utility (Electric)	Perpendicular	20146+25	N/A		
OH Utility (Electric)	Perpendicular	20158+65	N/A		
OH Utility (Electric)	Perpendicular	20161+55	N/A		
UG Utility (Telephone)	Perpendicular	20162+10	N/A		
UG Utility (Telephone)	Parallel	20162+10	20171+40		
OH Utility (Electric)	Perpendicular	20163+60	N/A		
OH Utility (Telephone)	Perpendicular	20167+50	N/A		
Unknown Utility	Perpendicular	20170+40	N/A		
UG Utility (Telephone)	Perpendicular	20171+40	N/A		
UG Utility (Fiber)	Parallel	20180+00	20796+92		
UG Utility (Telephone) UG Utility (Fiber)	Parallel Perpendicular	20180+00 20184+00	20773+30 N/A		
UG Utility (Fiber) UG Utility (Fiber)	Perpendicular	20184+00	N/A N/A		
OH Utility (Electric)	Perpendicular	20195+48	N/A N/A		
UG Utility (Electric)	Perpendicular	20200+90	N/A		
OH Utility (Electric)	Perpendicular	20201+50	N/A		
Storm Drainage	Perpendicular	20203+20	N/A		
Pipe/Culvert		20203+20	11/21		
Storm Drainage	Perpendicular	20217+20	N/A		
Pipe/Culvert	1				
Storm Drainage Pipe/Culvert	Perpendicular	20225+93	N/A		
UG Utility (Fiber)	Parallel	20254+50	20257+00		
Storm Drainage					
Pipe/Culvert	Perpendicular	20255+75	N/A		
Storm Drainage Pipe/Culvert	Perpendicular	20285+20	N/A		
Storm Drainage	Perpendicular	20285+60	N/A		
Pipe/Culvert	r erpendicular	20203700			
UG Utility (Fiber)	Parallel	20285+00	N/A		
UG Utility (Fiber)	Perpendicular	20294+95	N/A		
OH Utility (Electric)	Perpendicular	20295+30	N/A		
UG Utility (Electric)	Perpendicular	20295+45	N/A		
Storm Sewer	Parallel	20296+00	N/A		
UG Utility (Electric)	Perpendicular Derollo1	20296+15	N/A		
<u>UG Utility (Electric)</u> UG Utility (Fiber)	Parallel Perpendicular	20297+00 20297+00	20312+80 N/A		
	reeroen(ucillar	レノロノタノキリリ	LIN/A		

	Co-located U	Itilities Location (Approxin Drawings for D	
Utility Type Underground (UG) Overhead (OH)	Parallel or Perpendicular to the Alignment	Station - Starting Point for Parallel and Crossing Point for Perpendicular	Station - Ending Point for Parallel
UG Utility (Fiber)	Parallel	20285+00	N/A
UG Utility (Fiber)	Perpendicular	20294+95	N/A
OH Utility (Electric) UG Utility (Electric)	Perpendicular Perpendicular	20295+30 20295+45	N/A N/A
Storm Sewer	Parallel	20296+00	N/A
UG Utility (Electric)	Perpendicular	20296+15	N/A
UG Utility (Electric) UG Utility (Fiber)	Parallel Perpendicular	20297+00 20297+00	20312+80 N/A
UG Utility (Electric)	Perpendicular	20297+70	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20301+75	N/A
UG Utility (Electric)	Parallel	20305+00	20314+00
Water Line	Parallel	20315+00	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20316+90	N/A
Water Line	Parallel	20330+00	N/A
UG Utility (Fiber)	Perpendicular	20333+00	N/A
UG Utility (Fiber) Storm Drainage	Perpendicular	20335+00	N/A
Pipe/Culvert	Perpendicular	20345+75	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20351+10	N/A
UG Utility (Fiber)	Parallel	20375+00	N/A
OH Utility (Electric) OH Utility (Electric)	Perpendicular Perpendicular	20382+48 20383+00	N/A N/A
UG Utility (Electric)	Perpendicular	20383+00	N/A N/A
Storm Drainage Pipe/Culvert	Perpendicular	20391+10	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20421+25	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20425+75	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20436+20	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20446+75	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20451+60	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20473+70	N/A
Storm Drainage	Perpendicular	20489+90	N/A
Pipe/Culvert UG Utility (Fiber)	Parallel	20494+50	20735+30
Storm Drainage Pipe/Culvert	Perpendicular	20501+90	N/A
OH Utility (Electric)	Perpendicular	20502+65	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20520+70	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20534+50	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20548+70	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20579+20	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20588+30	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20614+10	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20651+10	N/A
OH Utility (Electric)	Perpendicular	20653+60	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20699+60	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20716+40	N/A
OH Utility (Electric)	Perpendicular	20739+10	N/A
Oh Utility (Electric)	Perpendicular	20740+80	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20740+50	N/A
Storm Drainage Pipe/Culvert	Perpendicular	20759+50	N/A
Note: The table above		ities within this Package	

includes the utility summation matrix which includes additional information such as the CI owner, size, length, and description. Section 13.3 describes the

PACKAGE 2 - CO-LOCATED UTILITIES







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2

age	Ownership/Parcel ID	Description	Location (Approximate – See Drawings for Details)	Comments
3/P2	State of New York/864-3	Temporary Easement	20004+40 to 20005+87; 20010+35 to 20011+25 (C-101)	Public, HDD work area
3/P2	State of New York/864-3	Temporary Easement	20023+75 to 20024+69(C-102)	Private, access road turn around. Near N Ol 4 mile 0.5, temp easement staging area SE of
3/P2	Delaware & Hudson Railway Corp/1041-5	Temporary Easement	20031+64to 20033+34 (C-103)	Private, Splice Vault 041 work area
3/P2	State of New York/ 952-2	Temporary Easement	20062+90 80 to 20064+87 (C-105)	Public, Splice Vault 042 work area
3/P2 3/P2	State Route 22 State of New York/ 952-2	Permanent Easement Temporary Easement	20081+44 to 20083+90 (C-106) 20094+80 to 20096+30 (C-107)	Road Crossing Rt 22 Public; Splice Vault 043 work area
3/P2	Jonita Galusha/951-3	Temporary Easement	20094+80 to 20094+50 (C-107) 20116+84 to 20117+53 (C-108)	Private, Splice Vault 041 work area
3/P2	Terra Materials Group/1041-7	Temporary Easement	20157+28 to 20161+65 (C-111)	Private, Old Route 4 - Temp. easement zone and adjacent to CP rail for muster area and s
512		Tomportity Existence	2015/2010 2010/100 (0 111)	vault 45
3/P2	Jenkinsville Sand and Gravel/ 104.1-1.1	Temporary Easement	20169+94 to 20170+43 (C-112)	Private – Potential Clearing and Access R
3/P2 3/P2	State of New York/1042-45 State of New York/1042-45	Permanent Easement Temporary Easement	20178+64 to 20183+37 (C-112) 20177+85 to 20179+05 (C-112)	Public - Permanent Public - Temporary Construction
3/P2	Jenkins ville Sand & Gravel/1041.1.1	Temporary & Permanent Easement	20185+22 to 20189+60 (C-113)	Private easement, HDD 12A work area, 2
3/P2	Sherwood/103.1-5	* *		conduit out of DZ, NW of CP rail Private Easement NW of CP rail though rur
		Temporary & Permanent Easement	20189+60 to 20195+24 (C-113 to C-114)	adjacent Private Easement, outside deviation zone, N
3/P2	Sherwood/103.1-8	Permanent Easement	20195+24 to 20197+56 (C-114)	CP rail though running adjacent
3/P2	Sherwood/103.1-6.21	Temporary & Permanent Easement	20197+56 to 20204+04; 20203+95 to 20204+08 (C-114)	Private easement, outside deviation zone, a road, NW of CP rail though running adjac
3/P2	William R Graves/1031-6.22	Temporary & Permanent Easement	20204+08 to 20204+39; 20204+08 to 20206+70 (C-114)	areas Private, access road; splice vault area
3/P2	State of New York/1031-11	Temporary & Permanent Easement	20206+70 to 20209+23 (C-114)	Public
3/P2	National Grid/1031-35	Temporary & Permanent Easement	20217+16 to 20219+69; 20229+70 to 20234+17; 20234+54 to 20239+65 (C- 115 & C-116)	Private, HDD Work Area; Access Roa
3/P2	State Route 4 ROW	Temporary & Permanent Easement	20245+38 to 20255+41; 20245+38 to 20249+35 (C-117 & C-118)	Public
3/P2 3/P2	State of New York/1031-11 State of New York/1031-11	Permanent Easement Permanent Easement	20255+41 to 20270+63 (C-118 & C-119) 20255+41 to 20270+63 (C-118 & C-119)	Public Public - HDD Work Area; Splice Vault
3/P2	State of New York/1031-11	Temporary Easement	20276+78 to 20280+90 (C-119)	Public - Access Road
3/P2 3/P2	Valentine/1031-16.1 State of New York/1031-11	Temporary Easement Permanent Easement	20279+13 to 20280+53 (C-119) 20284+03 to 20285+24 (C-119 & C-120)	Private - Access Road Public
3/P2 3/P2	State of New York/1031-11 Village of Fort Ann/112.10-4-2	Permanent Easement Permanent Easement	20284+03 to 20285+24 (C-119 & C-120) 20285+24 to 20289+29 (C-120)	Public
3/P2	Marie E Brooking/112.10-4-1	Permanent Easement	20285+55 to 20290+02 (C-120)	Private
3/P2 3/P2	Village of Fort Ann/112.10-4-2 Village of Fort Ann/112.10-4-2	Temporary Easement Permanent Easement	20289+40 to 20293+01 (C-120) 20291+61 to 20292+68 (C-120)	Private - HDD Work Area Private - HDD Work Area
3/P2 3/P2	Clay Hill Road	Temporary Easement	20291+61 to 20292+68 (C-120) 20295+11 to 20295+39 (C-120)	Private - HDD Work Area Public
3/P2	Village of Fort Ann/112.10-5-8.1	Temporary Easement	20300+75 to 20309+34 (C-121)	Public - HDD Work Area
3/P2 3/P2	Village of Fort Ann/112.10-5-8.1 Village of Fort Ann/112.10-5-8.1	Permanent Easement Permanent Easement	20300+75 to 20306+45 (C-121) 20310+59 to 20311+65 (C-121)	Public - HDD Work Area Public
3/P2	State of New York/112.00-3-20	Temporary & Permanent Easement	20311+65 to 20320+55; 20314+18 to 20318+62; 20322+90 to 20326+07;	Public - Splice Vault
3/P2	Delaware & Hudson Railway Corp./112.00-4-17.1	Temporary Easement	20329+40 to 20332+07; 20328+90 to 20332+17 (C-121 to C-123) 20338+86 to 20340+30 (C-123)	Private - (Muster Area)
3/P2	Lot 1 Provincial Pat. Walker Farms, LLC/12.00-2-9	Temporary Easement	20340+30 to 20340+74 (C-123)	Private
3/P2	Walker Farms LLC/121.00-3-5.1	Temporary Easement	20351+53 to 20355+80; 20357+50 to 20358+20 (C-124)	Private - Access Road
3/P2	Tracy Stevenson/112.00-1-5.10	Temporary & Permanent Easement	20371+26 to 20377+61; 20379+74 to 20382+02; 20382+38 to 20382+66 (C- 125 & C-126)	Private
3/P2	Baldwin Corners Rd	Temporary & Permanent Easement	20382+66 to 20383+22 (C-126)	Public
3/P2	Timothy E Barrett/121.00-1-6	Permanent Easement	20383+22 to 20384+01; 20388+77 to 20394+98 (C-126 & C-127)	Private
3/P2 3/P2	Timothy E Barrett/121.00-1-6 Michael B Wall/121.00-1-14	Temporary Easement Permanent Easement	20383+22 to 20384+69; 20388+54 to 20394+98 (C-126 & C-127) 20394+98 to 20399+38 (C-127)	Private Private
3/P2	Michael B Wall/121.00-1-14	Temporary Easement	20394+98 to 20399+38 (C-127)	Private
3/P2 3/P2	Robert C Lalonde/121.00-1-14.2 Robert C Lalonde/121.00-1-14.1	Temporary & Permanent Easements Temporary & Permanent Easements	20399+38 to 20403+63; 20399+38 to 20403+63 (C-127) 20403+63 to 20407+83; 20403+63 to 20407+83 (C-127 & C-128)	Private Private
3/P2	CV Land Holdings, LLC/1211-17	Temporary & Permanent Easements	20407+83 to 20427+92 (C-128 & C-129)	Private - HDD Work Area
3/P2	Valentin Kuster/1303-1	Temporary & Permanent Easements	20427+92 to 20447+60 (C-129 & C-130)	Private
3/P2 3/P2	Valentin Kuster/1303-1 19-23 West Main Street LLC/1303-7.3	Temporary Easement Temporary & Permanent Easement	20446+04 to 20447+60 (C-130) 20447+60 to 20449+03 (C-130)	Private - Access Road Private
3/P2	19-23 West Main Street LLC/1303-7.3	Temporary Easement	20453+16 to 20465+64 (C-131 & C-132)	Private
3/P2 3/P2	19-23 West Main Street LLC/1303-7.3 19-23 West Main Street LLC/1303-7.4	Temporary & Permanent Easement Temporary Easement	20456+81 to 20464+15; 20462+46 to 20465+73 (C-131 & C-132) 20465+64 to 20465+73 (C-132)	Private Private
3/P2	19-23 West Main Street LLC/1303-7.4	Temporary Easement	20465+73 to 20466+31 (C-132)	Private - Access Road
3/P2 3/P2	19-23 West Main Street LLC/1303-7.4	Temporary & Permanent Easement Temporary & Permanent Easement	20470+41 to 20477+85 (C-132)	Private
3/P2 3/P2	Peckham Materials Corp/130.3-7.1 Peckham Materials Corp/1303-7.5	Temporary & Permanent Easement	20477+85 to 20479+15 (C-132) 20479+15 to 20493+82; 20479+15 to 20494+56 (C-132 & C-133)	Private Private
3/P2	Peckham Materials Corp/1303-7.5	Temporary Easement	20498+34 to 20499+23 (C-134)	Private - HDD Work Area
3/P2 3/P2	Lucy H. Burch/1391-3 State of New York/1381-21.2	Temporary Easement Temporary Easement	20511+59 to 20512+01 (C-135) 20540+11 to 20544+67 (C-137)	Private - Access Road Public - Access Road
3/P2	Edward A. Hart/1391-21	Permanent Easement	20544+99 to 20548+13 (C-137)	Private
		Temporary Easement	20544+99 to 20546+35 (C-137)	Public
	State of New York/1381-21.2	1 5	20544:00+~ 20546:25.00 127	Deerato IIININU LA
3/P2	State of New York/1381-21.2 Edward A. Hart/1391-21 State of New York/1381-21.2	Temporary Easement Permanent Easement	20544+99 to 20546+35 (C-137) 20548+13 to 20549+12 (C-137)	Private - HDD Work Area Public
3/P2 3/P2 3/P2	Edward A. Hart/1391-21 State of New York/1381-21.2 Kenneth Sullivan/1381-20	Temporary Easement Permanent Easement Temporary & Permanent Easement	20548+13 to 20549+12 (C-137) 20549+12 to 20553+08; 20551+58 to 20552+76 (C-137)	Public Private - HDD Work Area
3/P2 3/P2 3/P2 3/P2	Edward A. Hart/1391-21 State of New York/1381-21.2 Kenneth Sullivan/1381-20 Lucy H. Burch/1381-21.1	Temporary Easement Permanent Easement Temporary & Permanent Easement Temporary Easement	20548+13 to 20549+12 (C-137) 20549+12 to 20553+08; 20551+58 to 20552+76 (C-137) 20572+92 to 20577+02; 20578+33 to 20579+88 (C-139)	Public Private - HDD Work Area Private - Access Road
5/P2 5/P2 5/P2 5/P2 5/P2	Edward A. Hart/1391-21 State of New York/1381-21.2 Kenneth Sullivan/1381-20	Temporary Easement Permanent Easement Temporary & Permanent Easement	20548+13 to 20549+12 (C-137) 20549+12 to 20553+08; 20551+58 to 20552+76 (C-137)	Public Private - HDD Work Area
3/P2 3/P2 3/P2 3/P2 3/P2 3/P2 3/P2	Edward A. Hart/1391-21State of New York/1381-21.2Kenneth Sullivan/1381-20Lucy H. Burch/1381-21.1Nancy L. Graham-Bruno/1381-24Deborah M. Havens/1471-8New Swamp Road	Temporary Easement Permanent Easement Temporary & Permanent Easement Temporary Easement Permanent Easement Temporary & Permanent Easement Temporary & Permanent Easement	20548+13 to 20549+12 (C-137) 20549+12 to 20553+08; 20551+58 to 20552+76 (C-137) 20572+92 to 20577+02; 20578+33 to 20579+88 (C-139) 20579+88 to 20580+34; 20587+04 to 20590+10 (C-139 & C-140) 20605+46 to 20608+83; 20613+41 to 20608+83 (C-141) 20613+85 to 20614+48; 20614+23 to 20614+34 (C-141)	Public Private - HDD Work Area Private - Access Road Private Private Public
/P2	Edward A. Hart/1391-21 State of New York/1381-21.2 Kenneth Sullivan/1381-20 Lucy H. Burch/1381-21.1 Nancy L. Graham-Bruno/1381-24 Deborah M. Havens/1471-8	Temporary Easement Permanent Easement Temporary & Permanent Easement Temporary Easement Permanent Easement Temporary & Permanent Easement	20548+13 to 20549+12 (C-137) 20549+12 to 20553+08; 20551+58 to 20552+76 (C-137) 20572+92 to 20577+02; 20578+33 to 20579+88 (C-139) 20579+88 to 20580+34; 20587+04 to 20590+10 (C-139 & C-140) 20605+46 to 20608+83; 20613+41 to 20608+83 (C-141)	Public Private - HDD Work Area Private - Access Road Private Private
3/P2	Edward A. Hart/1391-21State of New York/1381-21.2Kenneth Sullivan/1381-20Lucy H. Burch/1381-21.1Nancy L. Graham-Bruno/1381-24Deborah M. Havens/1471-8New Swamp RoadRyan H Bradley/1471-13Ryan Bradley/1471-15State of New York/1381-21.2	Temporary Easement Permanent Easement Temporary & Permanent Easement Temporary & Permanent Easement Permanent Easement Temporary & Permanent Easement Temporary & Permanent Easement Temporary Easement Temporary Easement Temporary & Permanent Easement	20548+13 to 20549+12 (C-137) 20549+12 to 20553+08; 20551+58 to 20552+76 (C-137) 20572+92 to 20577+02; 20578+33 to 20579+88 (C-139) 20579+88 to 20580+34; 20587+04 to 20590+10 (C-139 & C-140) 20605+46 to 20608+83; 20613+41 to 20608+83 (C-141) 20613+85 to 20614+48; 20614+23 to 20614+34 (C-141) 20643+24 to 20643+82 (C-143) 20643+24 to 20643+82 (C-143) 20645+56 to 20648+21 (C-144)	Public Private - HDD Work Area Private - Access Road Private Private Public Private - Splice Vault Private - Access Road Public
//P2	Edward A. Hart/1391-21State of New York/1381-21.2Kenneth Sullivan/1381-20Lucy H. Burch/1381-21.1Nancy L. Graham-Bruno/1381-24Deborah M. Havens/1471-8New Swamp RoadRyan H Bradley/1471-13Ryan Bradley/1471-15State of New York/1381-21.2Ryan Bradley/1471-15	Temporary Easement Permanent Easement Temporary & Permanent Easement Temporary Easement Permanent Easement Temporary & Permanent Easement Temporary & Permanent Easement Temporary Easement Temporary Easement	$\begin{array}{c} 20548+13 \ {\rm to}\ 20549+12 \ ({\rm C}\mathcal{-}137) \\ 20549+12 \ {\rm to}\ 20553+08;\ 20551+58 \ {\rm to}\ 20552+76 \ ({\rm C}\mathcal{-}137) \\ 20572+92 \ {\rm to}\ 20577+02;\ 20578+33 \ {\rm to}\ 20579+88 \ ({\rm C}\mathcal{-}139) \\ 20579+88 \ {\rm to}\ 20580+34;\ 20587+04 \ {\rm to}\ 20590+10 \ ({\rm C}\mathcal{-}139) \\ 20605+46 \ {\rm to}\ 20608+83;\ 20613+41 \ {\rm to}\ 20608+83 \ ({\rm C}\mathcal{-}141) \\ 20613+85 \ {\rm to}\ 20614+48;\ 20614+23 \ {\rm to}\ 20614+34 \ ({\rm C}\mathcal{-}141) \\ 20638+16 \ {\rm to}\ 20641+45 \ ({\rm C}\mathcal{-}143) \\ 20643+24 \ {\rm to}\ 20643+82 \ ({\rm C}\mathcal{-}143) \\ 20645+56 \ {\rm to}\ 20648+21 \ ({\rm C}\mathcal{-}144) \\ 20647+28 \ {\rm to}\ 20648+92;\ 20647+28 \ {\rm to}\ 20650+48 \ ({\rm C}\mathcal{-}144) \\ \end{array}$	Public Private - HDD Work Area Private - Access Road Private Private Public Private - Splice Vault Private - Access Road Public Private - HDD Work Area
//P2	Edward A. Hart/1391-21State of New York/1381-21.2Kenneth Sullivan/1381-20Lucy H. Burch/1381-21.1Nancy L. Graham-Bruno/1381-24Deborah M. Havens/1471-8New Swamp RoadRyan H Bradley/1471-13Ryan Bradley/1471-15State of New York/1381-21.2Ryan Bradley/1471-15Ryan Bradley/1471-15Ryan H Bradley/1471-15Joseph P Porlier/1471-18	Temporary Easement Permanent Easement Temporary & Permanent Easement Temporary & Permanent Easement Permanent Easement Temporary & Permanent Easement Temporary & Permanent Easement Temporary Easement Temporary & Permanent Easement Temporary & Permanent Easement Permanent Easement Permanent Easement Temporary Easement	$\begin{array}{c} 20548+13 \ {\rm to}\ 20549+12 \ {\rm (C-137)} \\ 20549+12 \ {\rm to}\ 20553+08;\ 20551+58 \ {\rm to}\ 20552+76 \ {\rm (C-137)} \\ 20572+92 \ {\rm to}\ 20577+02;\ 20578+33 \ {\rm to}\ 20559+88 \ {\rm (C-139)} \\ 20579+88 \ {\rm to}\ 20580+34;\ 20587+04 \ {\rm to}\ 20590+10 \ {\rm (C-139}\ \&\ {\rm C-140)} \\ 20605+46 \ {\rm to}\ 20608+83;\ 20613+41 \ {\rm to}\ 20608+83 \ {\rm (C-141)} \\ 20613+85 \ {\rm to}\ 20614+48;\ 20614+23 \ {\rm to}\ 20614+34 \ {\rm (C-141)} \\ 20638+16 \ {\rm to}\ 20643+82 \ {\rm (C-143)} \\ 20643+24 \ {\rm to}\ 20643+82 \ {\rm (C-143)} \\ 20643+24 \ {\rm to}\ 20648+21 \ {\rm (C-144)} \\ 20647+28 \ {\rm to}\ 20648+92;\ 20647+28 \ {\rm to}\ 20650+48 \ {\rm (C-144)} \\ 20647+39 \ {\rm to}\ 20649+09,\ 20647+39 \ {\rm to}\ 20650+63 \ {\rm (C-144)} \\ 20669+48 \ {\rm to}\ 20675+01 \ {\rm (C-145}\ \&\ C-146) \\ \end{array}$	Public Private - HDD Work Area Private - Access Road Private Private Public Private - Splice Vault Private - Splice Vault Private - Access Road Public Private - HDD Work Area Private - HDD Work Area Private
x/P2	Edward A. Hart/1391-21State of New York/1381-21.2Kenneth Sullivan/1381-20Lucy H. Burch/1381-21.1Nancy L. Graham-Bruno/1381-24Deborah M. Havens/1471-8New Swamp RoadRyan H Bradley/1471-13Ryan Bradley/1471-15State of New York/1381-21.2Ryan Bradley/1471-15Ryan Bradley/1471-15State of New York/1381-21.2Ryan Bradley/1471-15Joseph P Porlier/1471-18Joseph P Porlier/1471-18	Temporary Easement Permanent Easement Temporary & Permanent Easement Temporary & Permanent Easement Permanent Easement Temporary & Permanent Easement Temporary & Permanent Easement Temporary Easement Temporary & Permanent Easement Temporary & Permanent Easement Permanent Easement Permanent Easement Temporary Easement Temporary Easement Temporary Easement	$\begin{array}{c} 20548+13 \ {\rm to}\ 20549+12 \ {\rm (C-137)} \\ 20549+12 \ {\rm to}\ 20553+08;\ 20551+58 \ {\rm to}\ 20552+76 \ {\rm (C-137)} \\ 20572+92 \ {\rm to}\ 20577+02;\ 20578+33 \ {\rm to}\ 20552+76 \ {\rm (C-137)} \\ 20579+88 \ {\rm to}\ 20587+04 \ {\rm to}\ 20590+10 \ {\rm (C-139} \ {\rm \&C-140)} \\ 20605+46 \ {\rm to}\ 20608+83;\ 20613+41 \ {\rm to}\ 20608+83 \ {\rm (C-141)} \\ 20603+46 \ {\rm to}\ 20608+83;\ 20614+23 \ {\rm to}\ 20614+34 \ {\rm (C-141)} \\ 20638+16 \ {\rm to}\ 20641+45 \ {\rm (C-143)} \\ 20643+24 \ {\rm to}\ 20643+82 \ {\rm (C-143)} \\ 20643+24 \ {\rm to}\ 20643+82 \ {\rm (C-143)} \\ 20647+28 \ {\rm to}\ 20648+92;\ 20647+28 \ {\rm to}\ 20650+48 \ {\rm (C-144)} \\ 20647+28 \ {\rm to}\ 20647+28 \ {\rm to}\ 20650+48 \ {\rm (C-144)} \\ 20669+48 \ {\rm to}\ 20675+01 \ {\rm (C-145} \ {\rm \& C-146)} \\ 20673+95 \ {\rm to}\ 20675+01 \ {\rm (C-145} \ {\rm \& C-146}) \\ \end{array}$	Public Private - HDD Work Area Private - Access Road Private Private Public Private - Splice Vault Private - Splice Vault Private - Access Road Public Private - HDD Work Area Private - HDD Work Area Private - HDD Work Area
3/P2	Edward A. Hart/1391-21State of New York/1381-21.2Kenneth Sullivan/1381-20Lucy H. Burch/1381-21.1Nancy L. Graham-Bruno/1381-24Deborah M. Havens/1471-8New Swamp RoadRyan H Bradley/1471-13Ryan Bradley/1471-15State of New York/1381-21.2Ryan Bradley/1471-15Ryan Bradley/1471-15Ryan H Bradley/1471-15Joseph P Porlier/1471-18	Temporary Easement Permanent Easement Temporary & Permanent Easement Temporary & Permanent Easement Permanent Easement Temporary & Permanent Easement Temporary & Permanent Easement Temporary Easement Temporary & Permanent Easement Temporary & Permanent Easement Permanent Easement Permanent Easement Temporary Easement	$\begin{array}{c} 20548+13 \ {\rm to}\ 20549+12 \ ({\rm C}\ -137) \\ 20549+12 \ {\rm to}\ 20553+08;\ 20551+58 \ {\rm to}\ 20552+76 \ ({\rm C}\ -137) \\ 20572+92 \ {\rm to}\ 20577+02;\ 20578+33 \ {\rm to}\ 20559+88 \ ({\rm C}\ -139) \\ 20579+88 \ {\rm to}\ 20580+34;\ 20587+04 \ {\rm to}\ 20590+10 \ ({\rm C}\ -139\ \&\ {\rm C}\ -140) \\ 20605+46 \ {\rm to}\ 20608+83;\ 20613+41 \ {\rm to}\ 20608+83 \ ({\rm C}\ -141) \\ 20613+85 \ {\rm to}\ 20614+48;\ 20614+23 \ {\rm to}\ 20614+34 \ ({\rm C}\ -141) \\ 20638+16 \ {\rm to}\ 20643+82 \ ({\rm C}\ -143) \\ 20643+24 \ {\rm to}\ 20643+82 \ ({\rm C}\ -143) \\ 20643+24 \ {\rm to}\ 20643+82 \ ({\rm C}\ -144) \\ 20647+28 \ {\rm to}\ 20648+92;\ 20647+28 \ {\rm to}\ 20650+48 \ ({\rm C}\ -144) \\ 20647+39 \ {\rm to}\ 20649+09,\ 20647+39 \ {\rm to}\ 20650+63 \ ({\rm C}\ -144) \\ 20669+48 \ {\rm to}\ 20675+01 \ ({\rm C}\ -145\ \&\ {\rm C}\ -146) \\ \end{array}$	Public Private - HDD Work Area Private - Access Road Private Private Public Private - Splice Vault Private - Splice Vault Private - Access Road Public Private - HDD Work Area Private - HDD Work Area Private
3/P2	Edward A. Hart/1391-21State of New York/1381-21.2Kenneth Sullivan/1381-20Lucy H. Bureh/1381-21.1Nancy L. Graham-Bruno/1381-24Deborah M. Havens/1471-8New Swamp RoadRyan H Bradley/1471-13Ryan Bradley/1471-15State of New York/1381-21.2Ryan Bradley/1471-15Ryan Bradley/1471-15Joseph P Porlier/1471-18Joseph P Porlier/1471-18Ryan H Bradley/1551-3Bryan Boyce/1551-4Dorothy M. Crowley/1551-2.1	Temporary Easement Permanent Easement Temporary & Permanent Easement Temporary & Permanent Easement Permanent Easement Temporary & Permanent Easement Temporary & Permanent Easement Temporary & Permanent Easement Temporary & Permanent Easement Temporary Easement Temporary & Permanent Easement Temporary & Permanent Easement Temporary & Permanent Easement Temporary & Permanent Easement	$\begin{array}{c} 20548+13 \ to \ 20549+12 \ (C-137) \\ 20549+12 \ to \ 20553+08; \ 20551+58 \ to \ 20552+76 \ (C-137) \\ 20572+92 \ to \ 20577+02; \ 20578+33 \ to \ 20552+76 \ (C-137) \\ 20579+88 \ to \ 20580+34; \ 20587+04 \ to \ 20590+10 \ (C-139 \ \& \ C-140) \\ 20605+46 \ to \ 20608+83; \ 20613+41 \ to \ 20608+83 \ (C-141) \\ 20605+46 \ to \ 20608+83; \ 20613+41 \ to \ 20608+83 \ (C-141) \\ 20638+16 \ to \ 20641+45 \ (C-143) \\ 20643+24 \ to \ 20643+82 \ (C-143) \\ 20645+56 \ to \ 20648+21 \ (C-143) \\ 20647+28 \ to \ 20648+92; \ 20647+28 \ to \ 20650+63 \ (C-144) \\ 20669+48 \ to \ 20675+01 \ (C-145 \ \& \ C-146) \\ 20650+63 \ to \ 20675+01 \ (C-145 \ \& \ C-146) \\ 20650+63 \ to \ 20669+48; \ 20650+48 \ (C-144 \ \& \ C-145) \\ 20659+96 \ to \ 20703+91; \ 20702+00 \ to \ 20705+98 \ (C-147 \ \& \ C-148) \\ 20706+61 \ to \ 20706+93 \ (C-148) \\ \end{array}$	Public Private - HDD Work Area Private - Access Road Private Private Public Private - Splice Vault Private - Access Road Public Private - HDD Work Area
3/P2	Edward A. Hart/1391-21State of New York/1381-21.2Kenneth Sullivan/1381-20Lucy H. Bureh/1381-21.1Nancy L. Graham-Bruno/1381-24Deborah M. Havens/1471-8New Swamp RoadRyan H Bradley/1471-13Ryan Bradley/1471-15State of New York/1381-21.2Ryan Bradley/1471-15State of New York/1381-21.2Ryan Bradley/1471-15Joseph P Porlier/1471-17Joseph P Porlier/1471-18Ryan H Bradley/1551-3Bryan Boyce/1551-4Dorothy M. Crowley/1551-2.1Bill Rogers/1551-8	Temporary Easement Permanent Easement Temporary & Permanent Easement Temporary & Permanent Easement Permanent Easement Temporary & Permanent Easement Temporary & Permanent Easement Temporary & Permanent Easement Temporary & Permanent Easement Temporary Easement Temporary & Permanent Easement Temporary & Permanent Easement Temporary & Permanent Easement Temporary & Permanent Ease	$\begin{array}{c} 20548+13 \ {\rm to}\ 20549+12 \ ({\rm C-137}) \\ 20549+12 \ {\rm to}\ 20553+08;\ 20551+58 \ {\rm to}\ 20552+76 \ ({\rm C-137}) \\ 20572+92 \ {\rm to}\ 20577+02;\ 20578+33 \ {\rm to}\ 20552+76 \ ({\rm C-137}) \\ 20579+88 \ {\rm to}\ 20580+34;\ 20587+04 \ {\rm to}\ 20590+10 \ ({\rm C-139} \ {\rm \&}\ {\rm C-140}) \\ 20605+46 \ {\rm to}\ 20608+83;\ 20613+41 \ {\rm to}\ 20608+83 \ ({\rm C-141}) \\ 20605+46 \ {\rm to}\ 20608+83;\ 20614+23 \ {\rm to}\ 20608+83 \ ({\rm C-141}) \\ 20638+16 \ {\rm to}\ 20641+45 \ ({\rm C-143}) \\ 20643+24 \ {\rm to}\ 20643+82 \ ({\rm C-143}) \\ 20645+56 \ {\rm to}\ 20648+21 \ ({\rm C-144}) \\ 20647+28 \ {\rm to}\ 20648+22;\ 20647+28 \ {\rm to}\ 20650+63 \ ({\rm C-144}) \\ 20669+48 \ {\rm to}\ 20675+01 \ ({\rm C-145} \ {\rm \&}\ {\rm C-144}) \\ 20650+63 \ {\rm to}\ 20669+48;\ 20650+48 \ ({\rm C-144} \ {\rm \&}\ {\rm C-145}) \\ 20650+63 \ {\rm to}\ 20669+48;\ 20650+48 \ ({\rm C-144} \ {\rm \&}\ {\rm C-145}) \\ 20659+96 \ {\rm to}\ 20703+91;\ 20702+00 \ {\rm to}\ 20705+98 \ ({\rm C-147} \ {\rm \&}\ {\rm C-148}) \\ \end{array}$	Public Private - HDD Work Area Private - Access Road Private Private Public Private - Splice Vault Private - Access Road Public Private - HDD Work Area
3/P2 3/P2 <td>Edward A. Hart/1391-21State of New York/1381-21.2Kenneth Sullivan/1381-20Lucy H. Burch/1381-21.1Nancy L. Graham-Bruno/1381-24Deborah M. Havens/1471-8New Swamp RoadRyan H Bradley/1471-13Ryan Bradley/1471-15State of New York/1381-21.2Ryan Bradley/1471-15State of New York/1381-21.2Ryan Bradley/1471-15State of New York/1381-21.2Ryan Bradley/1471-15Ryan H Bradley/1471-15Ryan H Bradley/1471-17Joseph P Porlier/1471-18Joseph P Porlier/1471-18Ryan H Bradley/1551-3Bryan Boyce/1551-4Dorothy M. Crowley/1551-2.1Bill Rogers/1551-8James Energy Products, LLC/1151-9</td> <td>Temporary Easement Permanent Easement Temporary & Permanent Easement Temporary & Permanent Easement Permanent Easement Temporary & Permanent Easement Temporary Easement Temporary Easement Temporary Easement Temporary Easement Temporary Easement Temporary & Permanent Easement Temporary Easement Temporary & Permanent Easement Temporary Easement</td> <td>$\begin{array}{c} 20548+13 \ to \ 20549+12 \ (C-137) \\ 20549+12 \ to \ 20553+08; \ 20551+58 \ to \ 20552+76 \ (C-137) \\ 20572+92 \ to \ 20577+02; \ 20578+33 \ to \ 20552+76 \ (C-139) \\ 20579+88 \ to \ 20580+34; \ 20587+04 \ to \ 20590+10 \ (C-139 \ \& \ C-140) \\ 20605+46 \ to \ 20608+83; \ 20613+41 \ to \ 20608+83 \ (C-141) \\ 20605+46 \ to \ 20608+83; \ 20613+41 \ to \ 20608+83 \ (C-141) \\ 20613+85 \ to \ 20614+48; \ 20614+23 \ to \ 20614+34 \ (C-141) \\ 20638+16 \ to \ 20643+82 \ (C-143) \\ 20647+28 \ to \ 20643+22 \ to \ 20643+82 \ (C-143) \\ 20647+28 \ to \ 20648+92; \ 20647+28 \ to \ 20650+63 \ (C-144) \\ 20669+48 \ to \ 20675+01 \ (C-145 \ \& \ C-146) \\ 20650+63 \ to \ 20675+01 \ (C-145 \ \& \ C-146) \\ 20650+63 \ to \ 20659+48 \ (2073+95 \ to \ 20675+01 \ (C-148) \\ 20706+61 \ to \ 20705+98 \ (C-147 \ \& \ C-148) \\ 20715+38 \ to \ 20715+63 \ (C-148) \\ 20715+38 \ to \ 20738+58; \ 20733+74 \ to \ 20738+58 \ (C-148) \\ 20732+77 \ to \ 20738+58; \ 20733+06 \ to \ 20738+58; \ 20733+74 \ to \ 20738+58 \ (C-147) \ 20738+58 \$</td> <td>Public Private - HDD Work Area Private - Access Road Private Public Private - Splice Vault Private - Access Road Public Private - HDD Work Area Private - Access Road Private - HDD Work Area Private - Access Road Private - HDD Work Area Private - HDD Work Area Private - HDD Work Area</td>	Edward A. Hart/1391-21State of New York/1381-21.2Kenneth Sullivan/1381-20Lucy H. Burch/1381-21.1Nancy L. Graham-Bruno/1381-24Deborah M. Havens/1471-8New Swamp RoadRyan H Bradley/1471-13Ryan Bradley/1471-15State of New York/1381-21.2Ryan Bradley/1471-15State of New York/1381-21.2Ryan Bradley/1471-15State of New York/1381-21.2Ryan Bradley/1471-15Ryan H Bradley/1471-15Ryan H Bradley/1471-17Joseph P Porlier/1471-18Joseph P Porlier/1471-18Ryan H Bradley/1551-3Bryan Boyce/1551-4Dorothy M. Crowley/1551-2.1Bill Rogers/1551-8James Energy Products, LLC/1151-9	Temporary Easement Permanent Easement Temporary & Permanent Easement Temporary & Permanent Easement Permanent Easement Temporary & Permanent Easement Temporary Easement Temporary Easement Temporary Easement Temporary Easement Temporary Easement Temporary & Permanent Easement Temporary Easement Temporary & Permanent Easement Temporary Easement	$\begin{array}{c} 20548+13 \ to \ 20549+12 \ (C-137) \\ 20549+12 \ to \ 20553+08; \ 20551+58 \ to \ 20552+76 \ (C-137) \\ 20572+92 \ to \ 20577+02; \ 20578+33 \ to \ 20552+76 \ (C-139) \\ 20579+88 \ to \ 20580+34; \ 20587+04 \ to \ 20590+10 \ (C-139 \ \& \ C-140) \\ 20605+46 \ to \ 20608+83; \ 20613+41 \ to \ 20608+83 \ (C-141) \\ 20605+46 \ to \ 20608+83; \ 20613+41 \ to \ 20608+83 \ (C-141) \\ 20613+85 \ to \ 20614+48; \ 20614+23 \ to \ 20614+34 \ (C-141) \\ 20638+16 \ to \ 20643+82 \ (C-143) \\ 20647+28 \ to \ 20643+22 \ to \ 20643+82 \ (C-143) \\ 20647+28 \ to \ 20648+92; \ 20647+28 \ to \ 20650+63 \ (C-144) \\ 20669+48 \ to \ 20675+01 \ (C-145 \ \& \ C-146) \\ 20650+63 \ to \ 20675+01 \ (C-145 \ \& \ C-146) \\ 20650+63 \ to \ 20659+48 \ (2073+95 \ to \ 20675+01 \ (C-148) \\ 20706+61 \ to \ 20705+98 \ (C-147 \ \& \ C-148) \\ 20715+38 \ to \ 20715+63 \ (C-148) \\ 20715+38 \ to \ 20738+58; \ 20733+74 \ to \ 20738+58 \ (C-148) \\ 20732+77 \ to \ 20738+58; \ 20733+06 \ to \ 20738+58; \ 20733+74 \ to \ 20738+58 \ (C-147) \ 20738+58 \$	Public Private - HDD Work Area Private - Access Road Private Public Private - Splice Vault Private - Access Road Public Private - HDD Work Area Private - Access Road Private - HDD Work Area Private - Access Road Private - HDD Work Area Private - HDD Work Area Private - HDD Work Area
3/P2	Edward A. Hart/1391-21State of New York/1381-21.2Kenneth Sullivan/1381-20Lucy H. Bureh/1381-21.1Nancy L. Graham-Bruno/1381-24Deborah M. Havens/1471-8New Swamp RoadRyan H Bradley/1471-13Ryan Bradley/1471-15State of New York/1381-21.2Ryan Bradley/1471-15State of New York/1381-21.2Ryan Bradley/1471-15Joseph P Porlier/1471-17Joseph P Porlier/1471-18Ryan H Bradley/1551-3Bryan Boyce/1551-4Dorothy M. Crowley/1551-2.1Bill Rogers/1551-8	Temporary Easement Permanent Easement Temporary & Permanent Easement Temporary & Permanent Easement Permanent Easement Temporary & Permanent Easement Temporary & Permanent Easement Temporary & Permanent Easement Temporary & Permanent Easement Temporary Easement Temporary & Permanent Easement Temporary & Permanent Easement Temporary & Permanent Easement Temporary & Permanent Ease	$\begin{array}{c} 20548+13 \ to \ 20549+12 \ (C-137) \\ 20549+12 \ to \ 20553+08; \ 20551+58 \ to \ 20552+76 \ (C-137) \\ 20572+92 \ to \ 20577+02; \ 20578+33 \ to \ 20552+76 \ (C-139) \\ 20579+88 \ to \ 20580+34; \ 20587+04 \ to \ 20590+10 \ (C-139 \ \& \ C-140) \\ 20605+46 \ to \ 20608+83; \ 20613+41 \ to \ 20608+83 \ (C-141) \\ 20605+46 \ to \ 20608+83; \ 20613+41 \ to \ 20608+83 \ (C-141) \\ 20638+16 \ to \ 20641+45 \ (C-143) \\ 20643+24 \ to \ 20643+82 \ (C-143) \\ 20647+28 \ to \ 20648+92; \ 20647+28 \ to \ 20650+63 \ (C-144) \\ 20667+48 \ to \ 20675+01 \ (C-145 \ \& \ C-146) \\ 206673+95 \ to \ 20675+01 \ (C-145 \ \& \ C-146) \\ 20650+63 \ to \ 20669+48; \ 20650+48 \ (C-144) \ 20669+48 \ (C-144) \ 20669+48 \ (C-144) \\ 20659+96 \ to \ 20703+91; \ 20702+00 \ to \ 20705+98 \ (C-147 \ \& \ C-148) \\ 20706+61 \ to \ 20705+93 \ (C-148) \\ 20716+62 \ to \ 20717+56 \ (C-148) \\ \end{array}$	Public Private - HDD Work Area Private - Access Road Private Private Public Private - Splice Vault Private - Splice Vault Private - Access Road Public Private - HDD Work Area Private - HDD Work Area Private - Access Road Private - HDD Work Area Private - HDD Work Area Private - HDD Work Area
3/P2 3/P2 <td>Edward A. Hart/1391-21State of New York/1381-21.2Kenneth Sullivan/1381-20Lucy H. Burch/1381-21.1Nancy L. Graham-Bruno/1381-24Deborah M. Havens/1471-8New Swamp RoadRyan H Bradley/1471-13Ryan Bradley/1471-15State of New York/1381-21.2Ryan Bradley/1471-15State of New York/1381-21.2Ryan Bradley/1471-15Joseph P Porlier/1471-18Joseph P Porlier/1471-18Ryan H Bradley/1471-18Bryan Boyce/1551-3Bryan Boyce/1551-4Dorothy M. Crowley/1551-2.1Bill Rogers/1551-8James Energy Products, LLC/1151-9Mary Hurley/1551-13State Route 196Rabidau Lane</td> <td>Temporary Easement Permanent Easement Temporary & Permanent Easement Temporary & Permanent Easement Permanent Easement Temporary & Permanent Easement Temporary & Permanent Easement Temporary & Permanent Easement Temporary & Permanent Easement Temporary & Permanent Easement Temporary & Permanent Easement Temporary & Permanent Easement<td>$\begin{array}{c} 20548+13 \ to \ 20549+12 \ (C-137) \\ 20549+12 \ to \ 20553+08; \ 20551+58 \ to \ 20552+76 \ (C-137) \\ 20572+92 \ to \ 20577+02; \ 20578+33 \ to \ 20579+88 \ (C-139) \\ 20579+88 \ to \ 20580+34; \ 20587+04 \ to \ 20590+10 \ (C-139 \ \& \ C-140) \\ 20605+46 \ to \ 20608+83; \ 20613+41 \ to \ 20608+83 \ (C-141) \\ 20605+46 \ to \ 20608+83; \ 20613+41 \ to \ 20608+83 \ (C-141) \\ 20613+85 \ to \ 20614+48; \ 20614+23 \ to \ 20614+34 \ (C-141) \\ 20638+16 \ to \ 20641+45 \ (C-143) \\ 20647+28 \ to \ 20643+82 \ (C-143) \\ 20647+28 \ to \ 20648+92; \ 20647+28 \ to \ 20650+48 \ (C-144) \\ 20647+39 \ to \ 20649+09, \ 20647+39 \ to \ 20650+63 \ (C-144) \\ 20669+48 \ to \ 20675+01 \ (C-145 \ \& \ C-146) \\ 20659+48 \ to \ 20669+48; \ 20659+48 \ (C-144 \ \& \ C-145) \\ 20699+96 \ to \ 20703+91; \ 20702+00 \ to \ 20705+98 \ (C-147 \ \& \ C-148) \\ 20716+62 \ to \ 20718+58; \ 20733+74 \ to \ 20738+58 \ (C-149 \ \& \ C-149 \ \& \ C-150) \\ \hline 20740+00 \ to \ 20740+49 \ (C-150) \\ \hline 20740+00 \ to \ 20740+00 \ to \ 20740+00 \ (C-150) \\ \hline 20740+00 \ to \ 20740+00 \ (C-150) \\ \hline 20740+00 \ to \ 20740+00 \ to \$</td><td>Public Private - HDD Work Area Private - Access Road Private Public Private - Splice Vault Private - Access Road Public Private - HDD Work Area Private - HDD Work Area</td></td>	Edward A. Hart/1391-21State of New York/1381-21.2Kenneth Sullivan/1381-20Lucy H. Burch/1381-21.1Nancy L. Graham-Bruno/1381-24Deborah M. Havens/1471-8New Swamp RoadRyan H Bradley/1471-13Ryan Bradley/1471-15State of New York/1381-21.2Ryan Bradley/1471-15State of New York/1381-21.2Ryan Bradley/1471-15Joseph P Porlier/1471-18Joseph P Porlier/1471-18Ryan H Bradley/1471-18Bryan Boyce/1551-3Bryan Boyce/1551-4Dorothy M. Crowley/1551-2.1Bill Rogers/1551-8James Energy Products, LLC/1151-9Mary Hurley/1551-13State Route 196Rabidau Lane	Temporary Easement Permanent Easement Temporary & Permanent Easement Temporary & Permanent Easement Permanent Easement Temporary & Permanent Easement Temporary & Permanent Easement Temporary & Permanent Easement Temporary & Permanent Easement Temporary & Permanent Easement Temporary & Permanent Easement Temporary & Permanent Easement <td>$\begin{array}{c} 20548+13 \ to \ 20549+12 \ (C-137) \\ 20549+12 \ to \ 20553+08; \ 20551+58 \ to \ 20552+76 \ (C-137) \\ 20572+92 \ to \ 20577+02; \ 20578+33 \ to \ 20579+88 \ (C-139) \\ 20579+88 \ to \ 20580+34; \ 20587+04 \ to \ 20590+10 \ (C-139 \ \& \ C-140) \\ 20605+46 \ to \ 20608+83; \ 20613+41 \ to \ 20608+83 \ (C-141) \\ 20605+46 \ to \ 20608+83; \ 20613+41 \ to \ 20608+83 \ (C-141) \\ 20613+85 \ to \ 20614+48; \ 20614+23 \ to \ 20614+34 \ (C-141) \\ 20638+16 \ to \ 20641+45 \ (C-143) \\ 20647+28 \ to \ 20643+82 \ (C-143) \\ 20647+28 \ to \ 20648+92; \ 20647+28 \ to \ 20650+48 \ (C-144) \\ 20647+39 \ to \ 20649+09, \ 20647+39 \ to \ 20650+63 \ (C-144) \\ 20669+48 \ to \ 20675+01 \ (C-145 \ \& \ C-146) \\ 20659+48 \ to \ 20669+48; \ 20659+48 \ (C-144 \ \& \ C-145) \\ 20699+96 \ to \ 20703+91; \ 20702+00 \ to \ 20705+98 \ (C-147 \ \& \ C-148) \\ 20716+62 \ to \ 20718+58; \ 20733+74 \ to \ 20738+58 \ (C-149 \ \& \ C-149 \ \& \ C-150) \\ \hline 20740+00 \ to \ 20740+49 \ (C-150) \\ \hline 20740+00 \ to \ 20740+00 \ to \ 20740+00 \ (C-150) \\ \hline 20740+00 \ to \ 20740+00 \ (C-150) \\ \hline 20740+00 \ to \ 20740+00 \ to \$</td> <td>Public Private - HDD Work Area Private - Access Road Private Public Private - Splice Vault Private - Access Road Public Private - HDD Work Area Private - HDD Work Area</td>	$\begin{array}{c} 20548+13 \ to \ 20549+12 \ (C-137) \\ 20549+12 \ to \ 20553+08; \ 20551+58 \ to \ 20552+76 \ (C-137) \\ 20572+92 \ to \ 20577+02; \ 20578+33 \ to \ 20579+88 \ (C-139) \\ 20579+88 \ to \ 20580+34; \ 20587+04 \ to \ 20590+10 \ (C-139 \ \& \ C-140) \\ 20605+46 \ to \ 20608+83; \ 20613+41 \ to \ 20608+83 \ (C-141) \\ 20605+46 \ to \ 20608+83; \ 20613+41 \ to \ 20608+83 \ (C-141) \\ 20613+85 \ to \ 20614+48; \ 20614+23 \ to \ 20614+34 \ (C-141) \\ 20638+16 \ to \ 20641+45 \ (C-143) \\ 20647+28 \ to \ 20643+82 \ (C-143) \\ 20647+28 \ to \ 20648+92; \ 20647+28 \ to \ 20650+48 \ (C-144) \\ 20647+39 \ to \ 20649+09, \ 20647+39 \ to \ 20650+63 \ (C-144) \\ 20669+48 \ to \ 20675+01 \ (C-145 \ \& \ C-146) \\ 20659+48 \ to \ 20669+48; \ 20659+48 \ (C-144 \ \& \ C-145) \\ 20699+96 \ to \ 20703+91; \ 20702+00 \ to \ 20705+98 \ (C-147 \ \& \ C-148) \\ 20716+62 \ to \ 20718+58; \ 20733+74 \ to \ 20738+58 \ (C-149 \ \& \ C-149 \ \& \ C-150) \\ \hline 20740+00 \ to \ 20740+49 \ (C-150) \\ \hline 20740+00 \ to \ 20740+00 \ to \ 20740+00 \ (C-150) \\ \hline 20740+00 \ to \ 20740+00 \ (C-150) \\ \hline 20740+00 \ to \ 20740+00 \ to \$	Public Private - HDD Work Area Private - Access Road Private Public Private - Splice Vault Private - Access Road Public Private - HDD Work Area
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3/P2	Edward A. Hart/1391-21State of New York/1381-21.2Kenneth Sullivan/1381-20Lucy H. Burch/1381-21.1Nancy L. Graham-Bruno/1381-24Deborah M. Havens/1471-8New Swamp RoadRyan H Bradley/1471-13Ryan Bradley/1471-15State of New York/1381-21.2Ryan Bradley/1471-15State of New York/1381-21.2Ryan Bradley/1471-15State of New York/1381-21.2Ryan Bradley/1471-15State of New York/1381-21.2Ryan Bradley/1471-15Bryan Bradley/1471-17Joseph P Porlier/1471-18Joseph P Porlier/1471-18Ryan H Bradley/1551-3Bryan Boyce/1551-4Dorothy M. Crowley/1551-2.1Bill Rogers/1551-8James Energy Products, LLC/1151-9Mary Hurley/1551-13State Route 196Rabidau LaneDaniel L Ripley/1551-14.1	Temporary Easement Permanent Easement Temporary & Permanent Easement Temporary & Permanent Easement Permorary & Permanent Easement Temporary & Permanent Easement	$\begin{array}{c} 20548+13 \mbox{to} 20549+12 \mbox{(C-137)}\\ 20549+12 \mbox{to} 20553+08; 20551+58 \mbox{to} 20552+76 \mbox{(C-137)}\\ 20572+92 \mbox{to} 20577+02; 20578+33 \mbox{to} 20579+88 \mbox{(C-139)}\\ 20579+88 \mbox{to} 20587+04 \mbox{to} 20590+10 \mbox{(C-139} \mbox{c} C-140)\\ 20605+46 \mbox{to} 20608+83; 20613+41 \mbox{to} 20608+83 \mbox{(C-141)}\\ 20605+46 \mbox{to} 20608+83; 20613+41 \mbox{to} 20608+83 \mbox{(C-141)}\\ 20603+46 \mbox{to} 20608+83; 20614+23 \mbox{to} 20614+34 \mbox{(C-141)}\\ 20638+16 \mbox{to} 20641+45 \mbox{(C-143)}\\ 20643+24 \mbox{to} 20643+82 \mbox{(C-143)}\\ 20647+28 \mbox{to} 20648+21 \mbox{(C-143)}\\ 20647+28 \mbox{to} 20648+92; 20647+28 \mbox{to} 20650+63 \mbox{(C-144)}\\ 20667+48 \mbox{to} 206675+01 \mbox{(C-145} \mbox{c} C-146)\\ 20659+48 \mbox{to} 20675+01 \mbox{(C-145} \mbox{c} C-146)\\ 20659+48 \mbox{to} 20669+48; 20654+49 \mbox{to} 20659+48 \mbox{(C-144} \mbox{c} C-145)\\ 20659+96 \mbox{to} 20703+91; 20702+00 \mbox{to} 20705+98 \mbox{(C-147} \mbox{c} C-148)\\ 20715+38 \mbox{to} 20716+62 \mbox{(C-148)}\\ 20732+77 \mbox{to} 20738+58; 20733+06 \mbox{to} 20738+58; 20733+74 \mbox{to} 20738+58 \mbox{(C-149} \mbox{c} C-150)\\ 20740+058 \mbox{to} 20740+00 \mbox{(C-150)}\\ 20744+74 \mbox{to} 20755+61; 20746+33 \mbox{to} 20746+80; 20748+70 \mbox{to} 20750+13;\\ \end{array}$	Public Private - HDD Work Area Private - Access Road Private Private Public Private - Splice Vault Private - Splice Vault Private - Access Road Public Private - HDD Work Area Private - HDD Work Area Private - HDD Work Area Private - HDD Work Area Private - Access Road Private - Access Road
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<u>PACKAGE 2 – FACILITY ROW OWNERSHIP AND EASEMENTS</u>

		No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	וח
SPECIFIC DESCRIPTION OF THE ALTERATION.		0	12/16/2022	FINAL EM&CP SUBMISSION	JJE	JPR	
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							_
	_						_

Restoration Methods

Land Use Description	Section of EMCP
Non-agricultural, non-urban,	14.2.1
and non-residential areas	14.2.1
Urban/Residential Areas	14.2.2
Railway Ballast	14.2.3
Recreational Areas	14.2.4
Landscaping	14.3
Streams and Waterbodies	14.4
Access Roads and Laydown	
Areas within Agricultural	14.5.1
Lands	
Drainage Features	14.5.2
General Agricultural Lands	14.5
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Note: Section 14 describes the cleanup standards and procedures that will be followed throughout this Package once construction is complete. The Table above summarizes the appropriate subsection with Section 14 that includes the restoration procedure for each type of land use.

PACKAGE 2 - RESTORATION METHODS

CHAMPLAIN HUDSON POWER EXPRESS SEGMENT 3 - PACKAGE 2 - FORT ANN TO KINGSBURY

EM&CP DATA TABLES (5 OF 5)

066076 DRAWING NO.

KIEWIT PROJECT NO.

21162

CHA PROJECT NO.

G-015

SCALE REV. NO. 12/16/2022 DATE APPROVED BY: **DESIGNED BY:** RAWN BY:

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CLEANUP AND RESTORATION NOTES

PROMPT CLEANUP AND RESTORATION OF ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITY IS A PRIORITY OF THE CONSTRUCTION SCHEDULE AND SEQUENCING. TIMELY CLEANUP AND RESTORATION WILL ASSIST IN MINIMIZING POTENTIAL ENVIRONMENTAL IMPACTS ASSOCIATED WITH THE PROJECT. PROCEDURES FOR CLEANUP AND RESTORATION ARE DESCRIBED IN SECTION 14. IN ACCORDANCE WITH CERTIFICATE CONDITION 48, WITHIN TEN (10) DAYS OF THE COMPLETION OF FINAL RESTORATION ACTIVITIES, THE CERTIFICATE HOLDER WILL NOTIFY THE SECRETARY THAT ALL RESTORATION HAS BEEN COMPLETED IN COMPLIANCE WITH THE CERTIFICATE AND THE ORDER(S) APPROVING THE EM&CP.

CLEANUP STANDARDS AND PRACTICES

AS DESCRIBED IN THE BMP DOCUMENT, CLEANUP, RESTORATION, AND REVEGETATION PROCEDURES WILL BE ONGOING DURING CONSTRUCTION AS EACH SEGMENT IS COMPLETED. DURING CONSTRUCTION, ROAD AND CONSTRUCTION ROWS WILL BE KEPT FREE OF DEBRIS AND DISCARDED MATERIAL TO THE GREATEST EXTENT POSSIBLE. AS CONSTRUCTION CONTINUES, EACH SECTION OF THE ROW WILL BE THOROUGHLY CLEANED AFTER CONSTRUCTION IS COMPLETED ON THAT PARTICULAR SECTION. ALL FABRICATED DEBRIS RESULTING FROM CONSTRUCTION WILL BE DISPOSED OF AT AN APPROVED DISPOSAL SITE IN COMPLIANCE WITH ALL APPROPRIATE ENVIRONMENTAL REGULATIONS. FABRICATED DEBRIS GENERATED DURING CONSTRUCTION INCLUDES PIPING, FENCING, WIRING, AND ANY OTHER MATERIALS USED DURING CONSTRUCTION. NO FABRICATED DEBRIS IS TO BE BURNED OR BURIED. ALL TRUCKS LEAVING THE CONSTRUCTION AREA WILL BE LOADED AND COVERED IN ACCORDANCE WITH APPLICABLE REGULATIONS AS NEEDED AS DESCRIBED IN THE SOIL AND MATERIALS MANAGEMENT PLAN OF THE EM&CP IN APPENDIX L.

RESTORATION AND PLANTING

THE FINAL STAGE OF CONSTRUCTION WILL CONSIST OF RESTORING THE ROAD AND CONSTRUCTION ROWS AND THIS SEGMENT TO ITS ORIGINAL CONDITION AND CHARACTER AS MUCH AS POSSIBLE/IS PRACTICAL, UNLESS DOING SO WOULD INTERFERE WITH THE SAFE OR RELIABLE OPERATION AND MAINTENANCE OF THE PROJECT. RESTORATION ACTIVITIES MAY VARY WITH THE SPECIFIC AREA TO BE RESTORED BUT WILL CONSIST PREDOMINANTLY OF RESTORING TOPOGRAPHY TO ORIGINAL GRADIENTS AND RESEEDING EXCAVATED AREAS OVER THE TRENCH AS IDENTIFIED HEREIN.

SITE PREPARATION FOR REVEGETATION

THE SURFACE OF THE ROAD AND CONSTRUCTION ROWS DISTURBED BY CONSTRUCTION ACTIVITIES WILL BE GRADED TO MATCH THE ORIGINAL TOPOGRAPHIC CONTOURS AND TO BE COMPATIBLE WITH SURROUNDING DRAINAGE PATTERNS WHERE APPROPRIATE. IT SHOULD BE NOTED THAT SUBCONTRACTORS WILL TYPICALLY LIMIT GRUBBING (THE REMOVAL OF STUMPS AND ROOTS) TO THE FOOTPRINT OF THE EXCAVATED TRENCH AND ACCESS ROADS TO ALLOW RE-SPROUTING AND ASSIST IN THE RECOVERY OF WOODY SPECIES. EXCEPT WHERE REMOVAL IS REQUIRED FOR SAFE CONSTRUCTION. WHERE NEEDED, IT MAY BE NECESSARY TO IMPORT TOPSOIL TO RETURN AN AREA TO GRADE. IMPORTED TOPSOIL WILL FOLLOW CLASSIFICATION AND CHARACTERIZATION MEASURES OUTLINED IN THE SOIL AND MATERIALS MANAGEMENT PLAN IN APPENDIX L. HDD ENTRY AND EXIT PITS WILL BE BACKFILLED AND THE DISTURBED GROUND SURFACE WILL BE SIMILARLY GRADED. THE ENTRY AND EXIT POINTS FOR EACH HDD CROSSING ARE DESCRIBED IN TABLE 5.2. TRENCHES WILL BE BACKFILLED IN ACCORDANCE WITH THE MEASURES OUTLINED IN SECTION 4.4. THE CERTIFICATE HOLDER WILL BE RESPONSIBLE FOR WILL CHECKING ALL CULVERTS AND ASSURE THAT THEY ARE NOT CRUSHED OR BLOCKED DURING CONSTRUCTION AND RESTORATION OF THIS SEGMENT AND, IF A CULVERT IS BLOCKED OR CRUSHED, TAKE IMMEDIATE STEPS TO REPLACE OR REPAIR THE CULVERT IN ACCORDANCE WITH APPLICABLE STATE OR LOCAL STANDARDS.

RESTORATION OF CONSTRUCTION MATERIALS AND EQUIPMENT STAGING LOCATIONS AND TEMPORARY ACCESS ROADS

THE CONSTRUCTION MATERIALS AND EQUIPMENT STAGING LOCATIONS FOR THIS SEGMENT ARE SUMMARIZED IN TABLE 5.2 OF THE EM&CP AND ARE SHOWN IN THE PLAN AND PROFILE DRAWINGS AND ESCP. THESE AREAS WILL BE RESTORED AS CLOSE AS PRACTICABLE TO PRE-CONSTRUCTION CONDITIONS AND CONTOURS TO THE EXTENT PRACTICABLE.

ALL TEMPORARY FENCING AND EROSION CONTROLS WILL BE REMOVED AND DISPOSED OF IN AN ACCEPTABLE MANNER AT A STATE APPROVED DISPOSAL FACILITY APPROVED BY DPS STAFF AND THE CERTIFICATE HOLDERS. ALL MOTORIZED CONSTRUCTION EQUIPMENT WILL BE TRANSPORTED TO OFF-SITE FACILITIES. ALL OTHER USABLE CONSTRUCTION EQUIPMENT AND MATERIALS WILL BE COLLECTED, PACKED, AND TRANSPORTED TO OFF-SITE STORAGE FACILITIES OR TO THE NEXT SEGMENT'S STAGING AREA AS NEEDED. ALL UNUSABLE EQUIPMENT AND MATERIALS WILL BE REMOVED FROM THE LAYDOWN YARD AND DISPOSED OF APPROPRIATELY.

SEEDING AND PLANTING

AS DESCRIBED IN THE BMP DOCUMENT, SEEDING OPERATIONS ACROSS THE 35-FOOT-WIDE CONSTRUCTION AND FACILITY ROW AS WELL AS WITHIN STAGING AND LAYDOWN AREAS WILL COMMENCE ONLY AFTER AN ACCEPTABLE SEEDBED HAS BEEN ESTABLISHED, AS DESCRIBED ABOVE. SEED WILL BE APPLIED BY HAND, OR VIA HYDRO-SEEDERS. THE ENTIRE SEEDED AREA WILL BE WATERED WITH A FINE SPRAY, AS NECESSARY, UNTIL A UNIFORM MOISTURE DEPTH OF APPROXIMATELY ONE (1) INCH HAS BEEN ACHIEVED AS APPLICABLE. MULCHING AND ANCHORING OF THE MULCH MAY BE NECESSARY IN SOME AREAS UNLESS A HYDROMULCH/SEED SLURRY IS USED. ON STEEP SLOPES, JUTE NET WILL BE USED TO PROVIDE STABILIZATION. FERTILIZER WILL BE ADDED, AS APPLICABLE, AT THE APPROPRIATE RATES AFTER SEED IS APPLIED AND/OR TO A HYDROMULCH/SEED SLURRY. NO FERTILIZER WILL BE APPLIED IN WETLAND RESOURCE AREAS. SEEDING / MULCHING WILL TAKE PLACE UNDER THE SUPERVISION OF THE ENVIRONMENTAL INSPECTOR. THE SEED MIXTURE AND RATE OF APPLICATION WILL DEPEND ON THE SOIL TYPE, LAND USE, AVAILABLE MOISTURE, AND SEASON AT THE TIME OF APPLICATION. SEEDBED PREPARATION (FINAL TILLAGE, FERTILIZING, LIMING) AND SEEDING WILL FOLLOW RECOMMENDATIONS AS CONTAINED IN NEW YORK STATE FARMLAND: SEEDING, FERTILIZING AND LIME RECOMMENDATIONS FOR GAS PIPELINE ROW RESTORATION IN FARMLANDS (REVISED 4-27-2011) IF APPLICABLE OR AS SPECIFIED BY THE LANDOWNER. ALL SEED MIXES WILL BE FREE OF INVASIVE SPECIES. ALL SEED BAG TAGS (EITHER ORIGINAL OR SCANNED COPIES) WILL BE PROVIDED TO THE ENVIRONMENTAL INSPECTOR. SEEDED AREAS WILL BE MONITORED FOLLOWING RESTORATION UNTIL A MINIMUM VEGETATIVE COVER OF EIGHTY (80) PERCENT IS ACHIEVED. THE SEED MIXTURES WILL FOLLOW THE TECHNICAL SPECIFICATIONS INCLUDED ON THE PLAN AND PROFILE DRAWINGS IN APPENDIX C FOR UPLANDS AND WETLAND BUFFER ZONES. FOR WETLAND RESOURCE AREAS, EMERGENT COMMUNITIES SHOULD BE REVEGETATED WITH AN ERNST FACW WETLAND MEADOW MIX (ERNMX-122) OR EQUIVALENT, AND FOR SHADED SITES WITHIN FORESTED/SHRUB-SHRUB WETLAND COMMUNITIES, DISTURBED AREAS SHOULD BE REVEGETATED WITH ERNST SPECIALIZED WETLAND MIX FOR SHADED AREAS (ERNMX-137) OR EQUIVALENT.

THE MAJORITY OF SOIL DISTURBANCE FOR THIS SEGMENT WILL BE WITHIN THE TRENCH-LINE FOR THE CONDUIT/CABLE. HOWEVER, SOME DISTURBANCE WILL ALSO OCCUR DURING INSTALLATION AND REMOVAL OF TEMPORARY ACCESS ROADS AS DESCRIBE IN SECTION 4.10 OF THE EM&CP. ALL TRENCH AREAS AND OTHER EXCAVATED AREAS WILL BE RESEEDED WITH AN APPROPRIATE SEED MIX AS IDENTIFIED ABOVE. VEGETATION THROUGHOUT THE CONSTRUCTION ROW WILL BE CUT TO GROUND LEVEL AND ROOT SYSTEMS WILL REMAIN INTACT TO ALLOW FOR RESPROUTING FOLLOWING CONSTRUCTION, UNLESS RESPROUTING WOULD INTERFERE WITH THE SAFE AND RELIABLE OPERATION OF THE PROJECT.

WHEN TREE CLEARING IS REQUIRED, ALL TREES OVER TWO (2) INCHES IN DBH OR SHRUBS OVER FOUR (4) FEET IN HEIGHT THAT ARE DAMAGED OR DESTROYED BY ACTIVITIES DURING CONSTRUCTION. OPERATION. OR MAINTENANCE WITHIN ASSOCIATED URBAN. RESIDENTIAL LANDSCAPED AREAS, AND RECREATIONAL AREAS, WILL BE REPLACED WITHIN THE FOLLOWING YEAR BY THE CERTIFICATE HOLDERS WITH THE EQUIVALENT TYPE OF TREES OR SHRUBS EXCEPT

- a) EQUIVALENT TYPE REPLACEMENT TREES OR SHRUBS WOULD INTERFERE WITH THE PROPER CLEARING, CONSTRUCTION, OPERATION, OR MAINTENANCE OF THE PROJECT OR WOULD BE INCONSISTENT WITH STATE-INVASIVE SPECIES POLICY; OR
- b)REPLACEMENT WOULD BE CONTRARY TO SOUND ROW MANAGEMENT PRACTICES. OR TO ANY APPROVED LONG-RANGE ROW MANAGEMENT PLAN APPLICABLE TO THE FACILITY OR ADJOINING ROW: OR
- c)THE OWNER OF LAND WHERE THE DAMAGED OR DESTROYED TREES OR SHRUBS WERE LOCATED (OR OTHER RECORDED EASEMENT OR LICENSE HOLDERS WITH THE RIGHT TO CONTROL REPLACEMENT) DECLINES REPLACEMENT.

RESTORATION OF WATERBODIES

DIRECT IMPACTS TO STREAMS AND WATERBODIES ASSOCIATED WITH THIS SEGMENT HAVE BEEN AVOIDED BY CROSSING OVER OR UNDER EXISTING CULVERTS. AND INCORPORATING HDD METHODS. HOWEVER, IF IMPACTS TO WATERBODIES DO OCCUR, PER THE CERTIFICATE CONDITION 117 . THE CERTIFICATE HOLDERS HAVE ESTABLISHED AND WILL IMPLEMENT THE FOLLOWING PROGRAM TO MONITOR THE SUCCESS OF STREAM RESTORATION UPON COMPETITION OF CONSTRUCTION AND RESTORATION ACTIVITIES. PER CONDITIONS K AND L OF THE USACE PERMIT. THE FOLLOWING WILL DETERMINE IF STREAM AND RESTORATION IS SUCCESSFUL:

- 1. ALL PLANTINGS HAVE AN 85% SURVIVAL RATE
- 2. ALL ESTABLISHED WETLAND AREAS IN CONJUNCTION WITH THE COMPENSATORY MITIGATION HAVE AN 85% COVERAGE RATE OF HYDROPHYTIC PLANTS.
- 3. VEGETATION IN NEWLY ESTABLISHED WETLAND AREAS DO NOT CONSIST OF MORE THAN 5% TOTAL AREAL COVERAGE OF COMMON REED GRASS, PURPLE LOOSESTRIFE, REED CANARY GRASS. JAPANESE KNOTWOOD. TARTARIAN HONEYSUCKLE. EURASIAN MILFOIL, AND/OR OTHER INVASIVE SPECIES.

PER CONDITION NN OF THE USACE PERMIT THE CERTIFICATE HOLDERS, SHALL PROVIDE ADDITIONAL MONITORING REPORTS, AS DIRECTED IN WRITING, SHOULD IT BE DETERMINED THAT THE WETLAND MITIGATION SUCCESS CRITERIA LISTED ABOVE HAVE NOT BEEN MET FOR THREE CONSECUTIVE YEARS.

RESTORATION OF WETLANDS

THESE AREAS WILL BE RESTORED IN ACCORDANCE WITH SECTION 14.4.2 OF THE EM&CP AS CLOSE AS PRACTICABLE TO PRE-CONSTRUCTION CONDITIONS AND CONTOURS. ALL TEMPORARY FENCING AND EROSION CONTROLS WILL BE REMOVED AND DISPOSED OF IN AN ACCEPTABLE MANNER AT A STATE APPROVED DISPOSAL FACILITY APPROVED BY DPS STAFF AND THE CERTIFICATE HOLDER. ALL MOTORIZED CONSTRUCTION EQUIPMENT WILL BE TRANSPORTED TO OFF-SITE FACILITIES. ALL WETLAND MATS AND MATERIALS WILL BE COLLECTED, PACKED, AND TRANSPORTED TO OFF-SITE STORAGE FACILITY OR TO THE NEXT SEGMENT'S STAGING AREAS NEEDED.







VEGETATION RESTORATION ALSO INCLUDES THE MAINTENANCE OF PLANTINGS FOR SPECIFIED TIME PERIODS AND THE REPLACEMENT OF UNSUCCESSFUL PLANTINGS. PRIOR TO PLANTING. THE ENVIRONMENTAL INSPECTOR WILL INSPECT ALL PLANTS IN CONTAINERS. PLANTINGS WILL BE PERFORMED BY A QUALIFIED LANDSCAPE OR NURSERY CONTRACTOR. THE ENVIRONMENTAL INSPECTOR WILL ALSO INSPECT ALL PLANTS AFTER COMPETITION OF PLANTING TO ENSURE PROPER PLANTING PROCEDURES AND THE CORRECT PLANT SPECIES WERE USED. ADDITIONALLY THE ENVIRONMENTAL INSPECTOR WILL CONDUCT A FINAL INSPECTION OF ALL REVEGETATED AREAS AFTER THE END OF THE MONITORING PERIOD TO ENSURE FINAL STABILIZATION. ALL VEGETATION REPLACED WILL HAVE A MINIMUM TWO (2) YEAR SURVIVAL GUARANTEE. AS DESCRIBED IN THE BMP DOCUMENT, WHERE TREE OR SHRUB PLANTINGS ARE NEEDED, A POST CONSTRUCTION SURVIVAL SURVEY WILL BE PERFORMED ONE YEAR AFTER THE PLANTINGS. IF ANY TREE OR SHRUB HAS NOT SURVIVED OR IS IN POOR HEALTH, THE TREE/SHRUB WILL BE REPLACED.

SWPPP INSPECTIONS WILL BE PERFORMED BY THE ENVIRONMENTAL INSPECTOR ON A WEEKLY BASIS UNTIL ALL DISTURBED AREAS HAVE ACHIEVED 80% REVEGETATION AND HAVE ACHIEVED FINAL STABILIZATION. FOLLOWING FINAL RESTORATION, EROSION AND SEDIMENT CONTROL MEASURES WILL BE REMOVED FROM THE SITE AND DISPOSED OF APPROPRIATELY.

RESTORATION WITHIN NYSDOT ROW

ALL RESTORATION WITHIN THE NYSDOT ROW SHALL BE DONE IN ACCORDANCE WITH THE LATEST VERSION OF THE NYSDOT STANDARD SPECIFICATIONS AND STANDARD SHEET.

RESTORATION OF RECREATIONAL AREAS

FOLLOWING CONSTRUCTION, THE CERTIFICATE HOLDERS WILL RESED THE CONSTRUCTION AREA WITHIN RECREATIONAL AREAS (WHERE IMPACTED AND IF APPLICABLE) USING THE PROCEDURES AND METHODS SPECIFIED IN THE SECTIONS ABOVE WHERE NEEDED. IF NECESSARY, ADDITIONAL REVEGETATION AND TREE PLANTING MAY BE PERFORMED DEPENDING ON THE IMPACT OF CONSTRUCTION.

ROADWAY RESTORATION (STRIPING, SIGNAGE, AUDIBLE ROADWAY **DELINEATORS**)

STRIPPING IMPACTED OR REMOVED FROM CONSTRUCTION WITHIN THE LIMITS OF WORK, INCLUDING AREAS OF MILL AND OVERLAYS IS TO BE REINSTALLED PER EXISTING STRIPPING PATTERNS. CONTRACTOR SHALL INVENTORY ALL STRIPPING PRIOR TO WORK. WORK IS TO BE COMPLETED IN ACCORDANCE WITH NYSDOT STANDARD SHEETS AND SPECIFICATIONS (SEE 685 SERIES STANDARD SHEETS). SIGNAGE IMPACTED, DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED IN KIND OF REINSTALLED IN ACCORDANCE WITH NYSDOT STANDARD SHEETS AND SPECIFICATIONS (SEE 645 SERIES STANDARD SHEETS). AUDIBLE ROADWAY DELINEATORS DAMAGED OR REMOVED DUE TO CONSTRUCTION SHALL BE INSTALLED DURING RE-PAVING OPERATIONS IN ACCODANCE WITH NYSDOT STANDARD SHEET 649-03.

RESTORATION OF ROADWAY

THESE AREAS WILL BE RESTORED AS CLOSE AS PRACTICABLE TO PRE-CONSTRUCTION CONDITIONS AND CONTOURS. TRENCHES WILL BE BACKFILLED PER THE APPROPRIATE DETAIL, FULL WIDTH OF THE TRENCH WILL BE RESTORED TO MATCH THE EXISTING PAVEMENT SECTION, THE FULL WIDTH OF THE TRAVEL LANE TO THE CENTERLINE WILL BE MILLED AND OVERLAYED WITH A TOP COURSE OF ASPHALT. ALL TEMPORARY FENCING AND EROSION CONTROLS WILL BE REMOVED AND DISPOSED ON IN AN ACCEPTABLE MANNER AT A STATE APPROVED DISPOSAL FACILITY APPROVED BY DPS STAFF AND THE CERTIFICATE HOLDERS.

RESTORATION OF ROADWAY SHOULDER

THESE AREAS WILL BE RESTORED AS CLOSE AS PRACTICABLE TO PRE-CONSTRUCTION CONDITIONS AND CONTOURS. TRENCHES WILL BE BACKFILLED PER THE APPROPRIATE DETAIL. FULL WIDTH OF THE TRENCH WILL BE RESTORED TO MATCH THE EXISTING PAVEMENT SECTION. THE FULL WIDTH OF THE TRAVEL LANE TO THE CENTERLINE WILL BE MILLED AND OVERLAYED WITH A TOP COURSE OF ASPHALT. ALL TEMPORARY FENCING AND EROSION CONTROLS WILL BE REMOVED AND DISPOSED ON IN AN ACCEPTABLE MANNER AT A STATE APPROVED DISPOSAL FACILITY APPROVED BY DPS STAFF AND THE CERTIFICATE HOLDERS.

PAVEMENT RESTORATION

AS DESCRIBED IN THE BMP DOCUMENT AND CERTIFICATE CONDITIONS, CURBS, SIDEWALKS, AND STREETS DAMAGED BY CONSTRUCTION WILL BE RESTORED TO PRE-EXISTING CONDITION OR BETTER. FURTHER. DISTURBED AREAS. RUTS. AND RILLS ALONG ROADWAYS SHALL BE RESTORED TO ORIGINAL GRADES AND CONDITIONS WITH PERMANENT REVEGETATION AND EROSION AND CONTROLS APPROPRIATE FOR THOSE LOCATIONS, AS APPROPRIATE. THE CERTIFICATE HOLDERS WILL CONSULT THE MUNICIPAL OR HIGHWAY DEPARTMENT AND OR REGIONAL OFFICE OR COUNTY ENGINEER OF THE NYSDOT IN ORDER TO IDENTIFY AND INCORPORATE APPROPRIATE SPECIFICATIONS FOR CURB, SIDEWALK, OR STREET RESTORATION. ALL SURFACE RESTORATION WILL FOLLOW THE SPECIFICATIOSN PROVIDED IN THE PLAN AND PROFILE DRAWINGS. GUIDE RAILS WILL BE REMOVED AND REPLACE IN ACCORDANCE WITH NYSDOT STANDARD SHEET 606.01.

RESTORATION OF RAILWAY BALLAST

UPON COMPLETION OF THE INSTALLATION OF THE OVERLAND TRANSMISSION CABLE. THE SURFACE OF THE RAILROAD ROW DISTURBED BY CONSTRUCTION ACTIVITIES WILL BE GRADED TO MATCH THE ORIGINAL TOPOGRAPHIC CONTOURS AND TO BE COMPATIBLE WITH SURROUNDING DRAINAGE PATTERNS. BACKFILL OR FILL WILL BE COMPACTED TO MATCH SURROUNDING GRADE. THE GROUND COVER WILL BE RETURNED TO PRE-EXISTING CONDITIONS, BY REVEGETATING THE BALLAST OR STABILIZING WITH BALLAST STONE. TO ENSURE PROPER RESTORATION AND PROTECTION OF THE RAILWAY BALLAST, THE RAILROAD OWNERS HAVE BEEN CONSULTED TO ENSURE RESTORATION MEETS THE ENGINEERING REQUIREMENTS OF THE RAILWAYS.

SEED MIXES

- A. GENERAL SEED: 1. PIPELINE MIX
- 2. MIX COMPOSIT
- 33.0% PANICUI 25.0% FESTUC
- 18.0% LOLIUM 16.0% PHLEUM
- 5.0% TRIFOLIUM 3.0% AGROSTIS
- 3. APPLIED AT A
- B. ADIRONDACK SEE
- 1. MIX COMPOSIT 25% VIRGIN
- 25% CANAD 25% AUTUM
- 25% CAMPE 2. APPLIED AT A
- C. SPECIALIZED WET
- 1. MIX COMPOSIT
 - 35.0% CARE 20.0% ELYM
 - 15.0% CARE 12.8% CARE
 - 5.0% CARE>
 - 4.0% VERBE 2.0% HELIOF
 - 1.0% CARE>
 - 1.0% SPARG 0.7% IRIS V
 - 0.5% BIDENS
 - 0.5% CAREX
 - 0.5% CARE>
 - 0.5% EUPA 0.5% SCIRPL
 - 0.5% VERNC
 - 0.3% LOBEL
 - 0.2% PENTH
- 2. APPLIED AT A 3. COVER CROP BASED ON SE
- D. FACW WETLAND M
- 1. MIX COMPOSIT 21.0% CAREX
- 20.0% ELYMU
- 16.0% CAREX 12.0% CAREX
- 12.0% CAREX
- 3.0% VERBEN
- 2.4% ASCLEP
- 2.0% JUNCUS 2.0% ZIZIA A
- 1.6% ASTER
- 1.3% CAREX
- 1.0% BIDENS 1.0% JUNCUS
- 0.8% SOLIDA
- 0.6% VERBEN
- 0.5% CAREX
- 0.5% EUPATO
- 0.5% HELENIL 0.5% MIMULU
- 0.3% LOBELIA
- 0.3% SCIRPUS
- 0.2% ALISMA 0.2% ASTER
- 0.2% ASTER
- 0.1% PENTHO
- 2. APPLIED AT A
- 3. COVER CROP BASED ON SEA

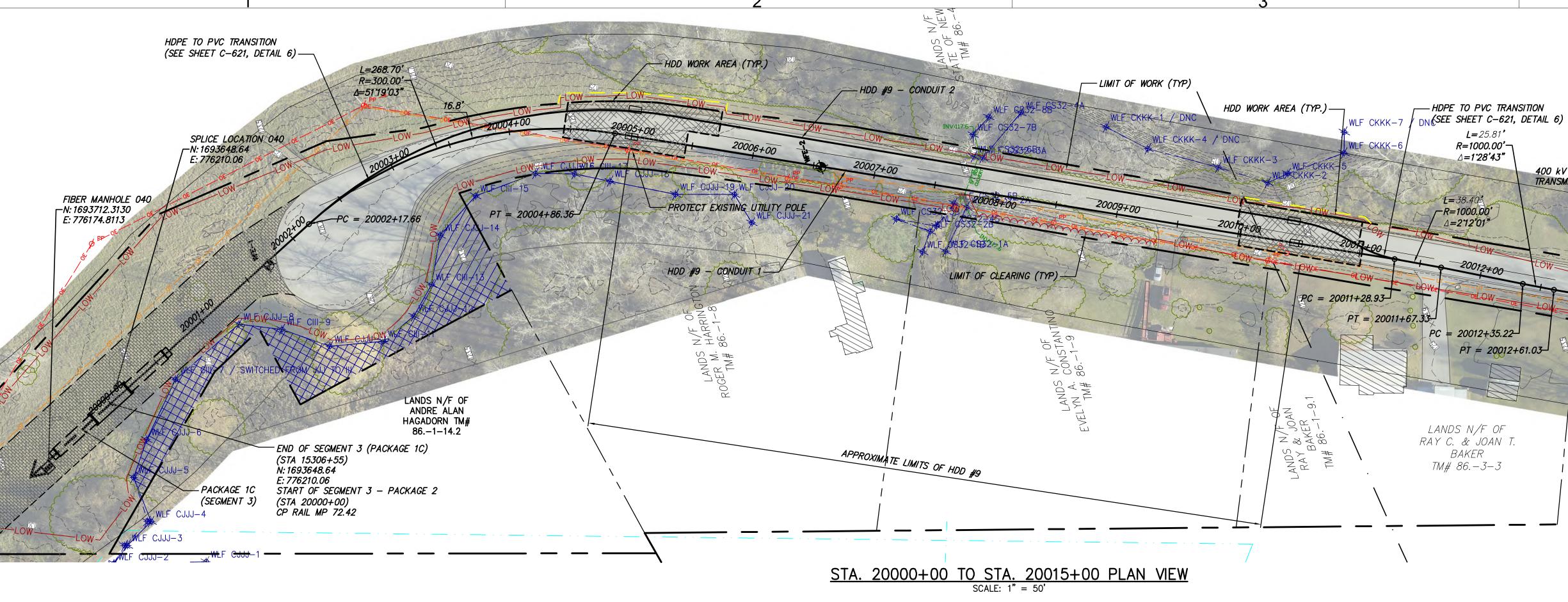
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ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.	0	12/16/2022	FINAL EM&CP SUBMISSION	JJE	JPR	SCALE AS NOTE
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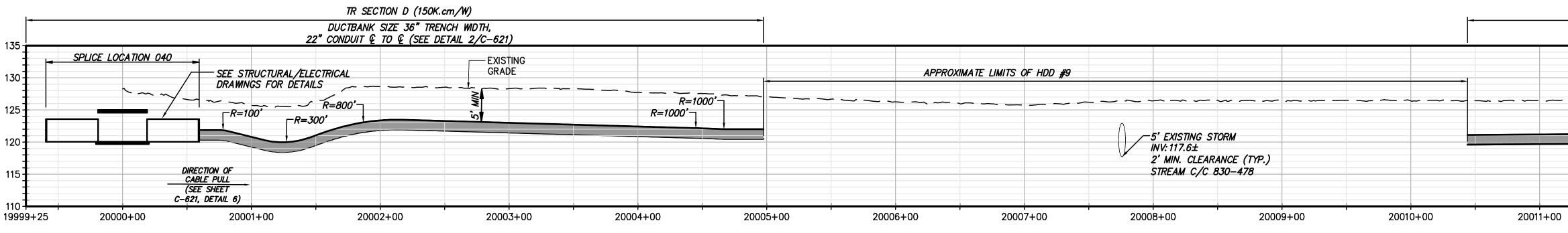
N/SWITCHGRASS (ERNMX-102-1) ON
M VIRGATUM, 'SHAWNEE' (SWITCHGRASS, 'SHAWNEE') A RUBRA (CREEPING RED FESCUE)
MULTIFLORUM (ANNUAL RYEGRASS)
PRATENSE, CLIMAX (TIMOTHY, CLIMAX) M HYBRIDUM (ALSIKE CLOVER)
S ALBA (REDTOP) RATE OF 40 LBS/ACRE.
D:
ON IA WILD RYE (ELYMUS VIRGINICUS VAR. VIRGINICUS)
A WILD RYE (ELYMUS CANADENSIS) IN BENTGRASS (AGROSTIS PERENNANS)
R LITTLE BLUESTEM (SCHIZACHYRIUM SCOPARIUM)
RATE OF 40 LBS/ACRE. _AND MIX FOR SHADED OBL-FACW AREAS (ERNMX-137)
ON EX VULPINOIDEA, PA ECOTYPE (FOX SEDGE, PA ECOTYPE)
IUS VIRGINICUS, MADISON-NY ECOTYPE (VIRGINIA WILDRYE, MADISON-NY ECOTYPE)
IX SCOPARIA, PA ECOTYPE (BLUNT BROOM SEDGE, PA ECOTYPE) IX LURIDA, PA ECOTYPE (LURID SEDGE, PA ECOTYPE)
(LUPULINA, PA ECOTYPE (HOP SEDGE, PA ECOTYPE) INA HASTATA, PA ECOTYPE (BLUE VERVAIN, PA ECOTYPE)
PSIS HELIANTHOIDES, PA ECOTYPE (OXEYE SUNFLOWER, PA ECOTYPE)
(INTUMESCENS, PA ECOTYPE (STAR SEDGE, PA ECOTYPE) GANIUM AMERICANUM (EASTERN BUR REED)
'ERSICOLOR (BLUEFLAG) S CERNUA, PA ECOTYPE (NODDING BUR MARIGOLD, PA ECOTYPE)
(CRINITA, PA ECOTYPE (FRINGED SEDGE, PA ECOTYPE) (STIPATA, PA ECOTYPE (AWL SEDGE, PA ECOTYPE)
TORIUM PERFOLIATUM, PA ECOTYPE (BONESET, PA ECOTYPE)
US CYPERINUS, PA ECOTYPE (WOOLGRASS, PA ECOTYPE) DNIA NOVEBORACENSIS, PA ECOTYPE (NEW YORK IRONWEED, PA ECOTYPE)
IA SIPHILITICA, PA ECOTYPE (GREAT BLUE LOBELIA, PA ECOTYPE) IORUM SEDOIDES, PA ECOTYPE (DITCH STONECROP, PA ECOTYPE)
RATE OF APPROXIMATELY 20 LBS/ACRE, ALONG WITH THE COVER CROP.
SHOULD BE APPLIED AT A RATE OF 60-80 LBS/ACRE. COVER CROP TO BE AN ANNUAL RYE. COVER CROP ASON OF RESTORATION AN ANNUAL RYE THROUGH SPRING AND SUMMER AND WINTER RYE FOR LATE FALL.
IEADOW MIX (ERNMX–122) ON
: VULPINOIDEA, PA ECOTYPE (FOX SEDGE, PA ECOTYPE) IS VIRGINICUS, PA ECOTYPE (VIRGINIA WILDRYE, PA ECOTYPE)
LURIDA, PA ECOTYPE (LURID SEDGE, PA ECOTYPE)
LUPULINA, PA ECOTYPE (HOP SEDGE, PA ECOTYPE) SCOPARIA, PA ECOTYPE (BLUNT BROOM SEDGE, PA ECOTYPE)
IA HASTATA, PA ECOTYPE (BLUE VERVAIN, PA ECOTYPE) IAS INCARNATA, PA ECOTYPE (SWAMP MILKWEED, PA ECOTYPE)
S EFFUSUS (SOFT RUSH) UREA, PA ECOTYPE (GOLDEN ALEXANDERS, PA ECOTYPE)
NOVAE-ANGLIAE, PA ECOTYPE (NEW ENGLAND ASTER, PA ECOTYPE)
STIPATA, PA ECOTYPE (AWL SEDGE, PA ECOTYPE) CERNUA, PA ECOTYPE (NODDING BUR MARIGOLD, PA ECOTYPE)
TENUIS, PA ECOTYPE (PATH RUSH, PA ECOTYPE) GO RUGOSA, PA ECOTYPE (WRINKLELEAF GOLDENROD, PA ECOTYPE)
IA URTICIFOLIA, PA ECOTYPE (WHITE VERVAIN, PA ECOTYPE)
CRINITA, PA ECOTYPE (FRINGED SEDGE, PA ECOTYPE) DRIUM PERFOLIATUM, PA ECOTYPE (BONESET, PA ECOTYPE)
JM AUTUMNALE, PA ECOTYPE (COMMON SNEEZEWEED, PA ECOTYPE) S RINGENS, PA ECOTYPE (SQUARE STEMMED MONKEYFLOWER, PA ECOTYPE)
A SIPHILITICA, PA ECOTYPE (GREAT BLUE LOBELIA, PA ECOTYPE) S CYPERINUS, PA ECOTYPE (WOOLGRASS, PA ECOTYPE)
SUBCORDATUM, PA ECOTYPE (MUD PLANTAIN, PA ECOTYPE)
PUNICEUS, PA ECOTYPE (PURPLESTEM ASTER, PA ECOTYPE) UMBELLATUS, PA ECOTYPE (FLAT TOPPED WHITE ASTER, PA ECOTYPE)
RUM SEDOIDES, PA ECOTYPE (DITCH STONECROP, PA ECOTYPE) RATE OF APPROXIMATELY 20 LBS/ACRE, ALONG WITH THE COVER CROP.
SHOULD BE APPLIED AT A RATE OF 60-80 LBS/ACRE. COVER CROP TO BE AN ANNUAL RYE. COVER CROP ASON OF RESTORATION AN ANNUAL RYE THROUGH SPRING AND SUMMER AND WINTER RYE FOR LATE FALL.

KIEWIT PROJECT NO. 21162 CHA PROJECT NO. 066076 DRAWING NO.

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12/16/2022





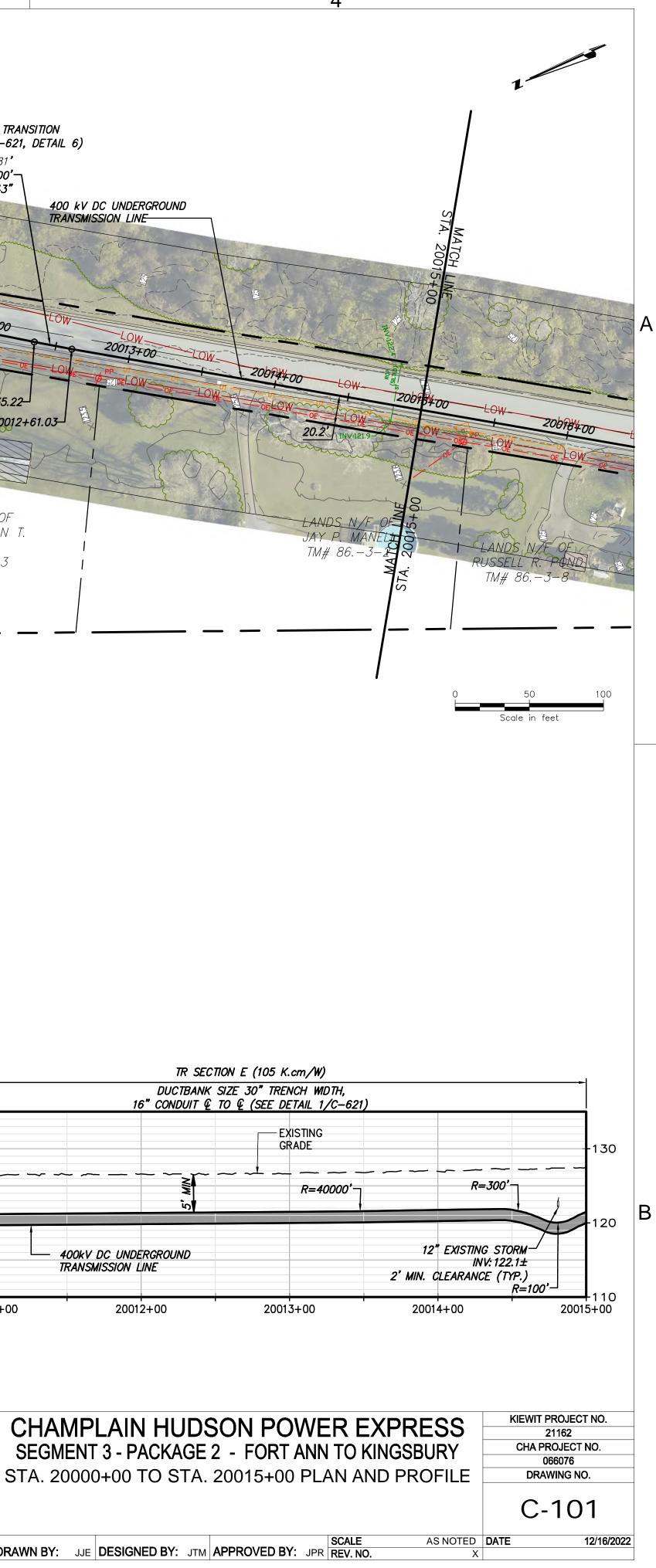


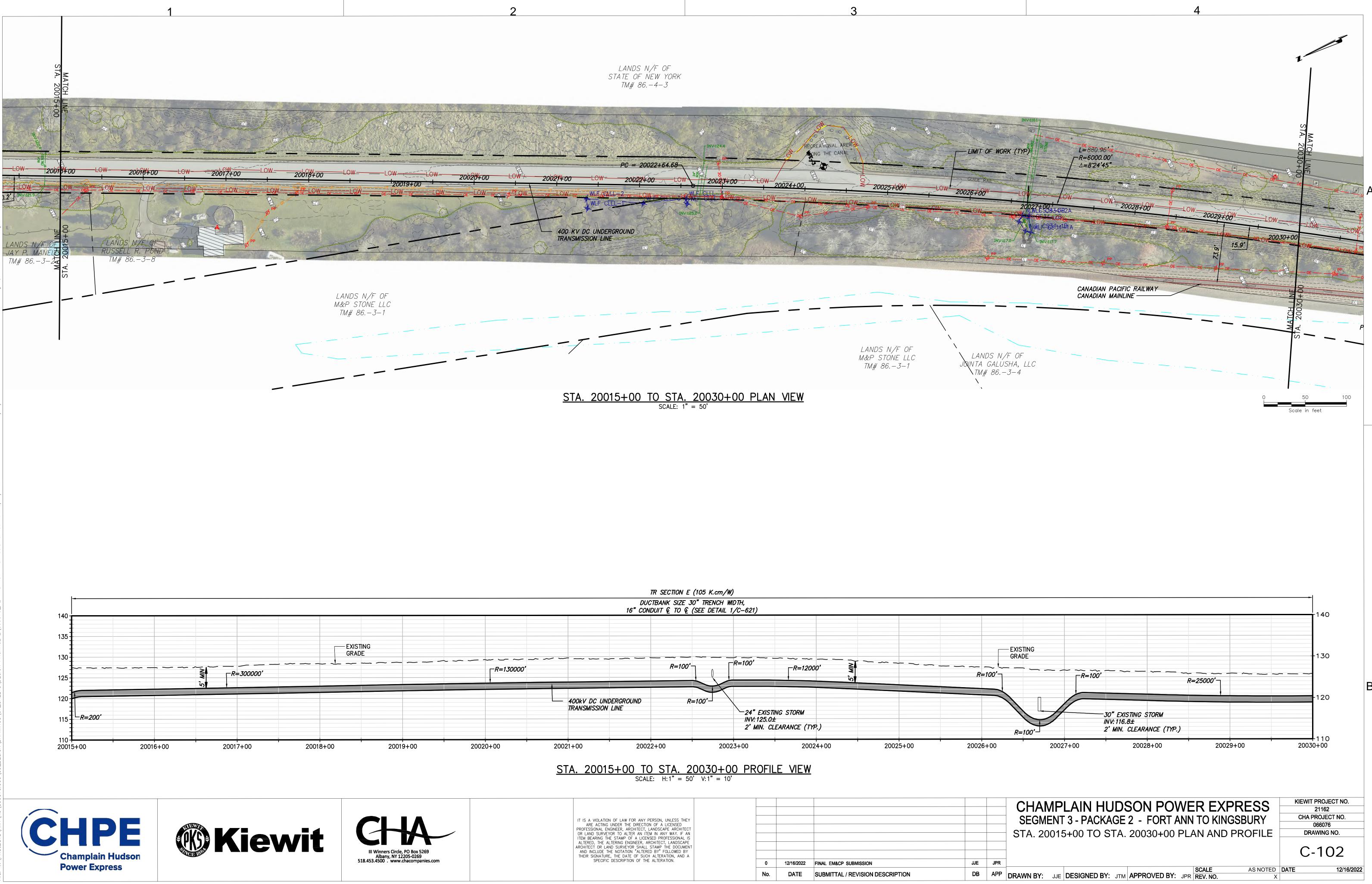




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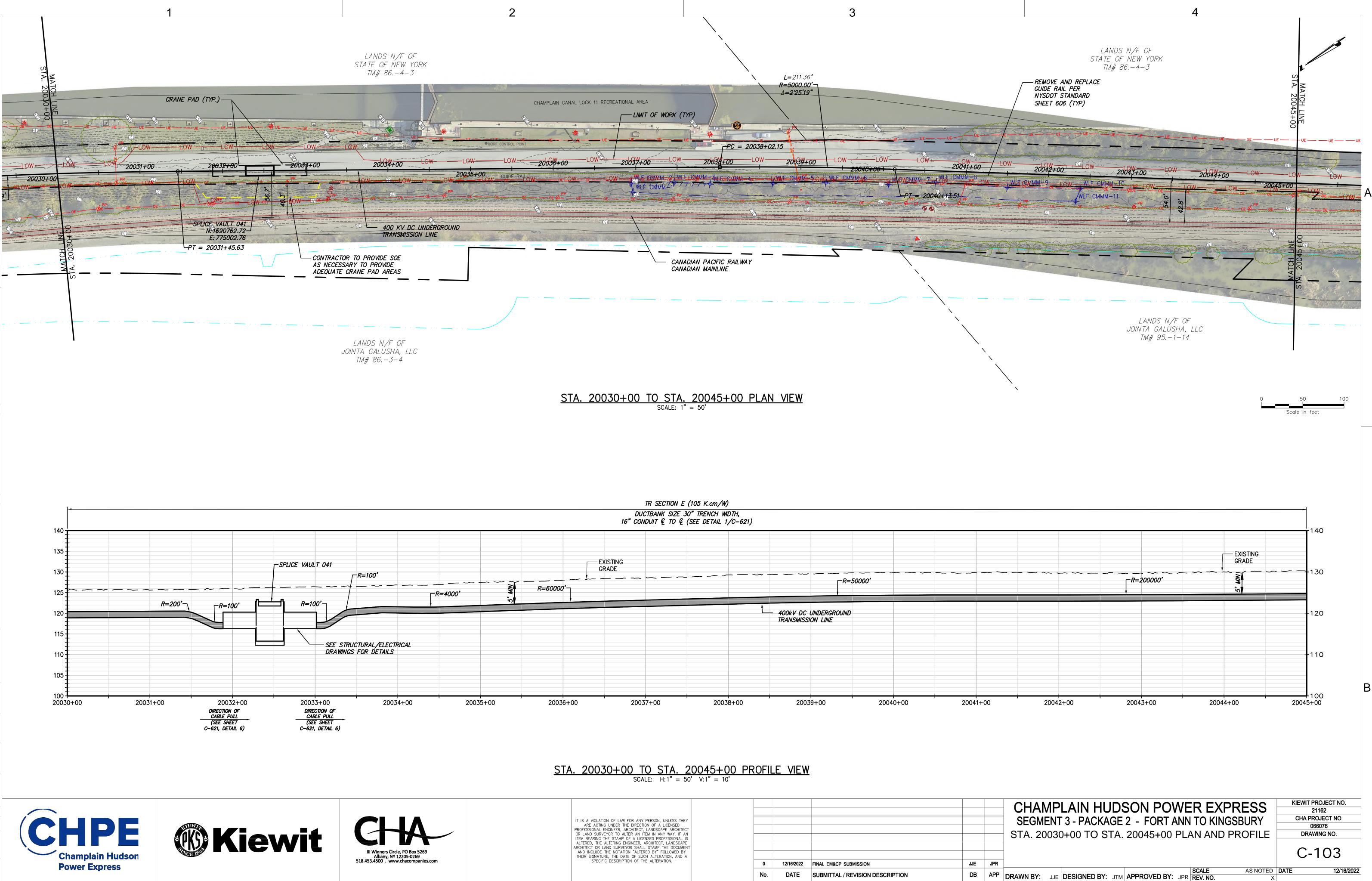








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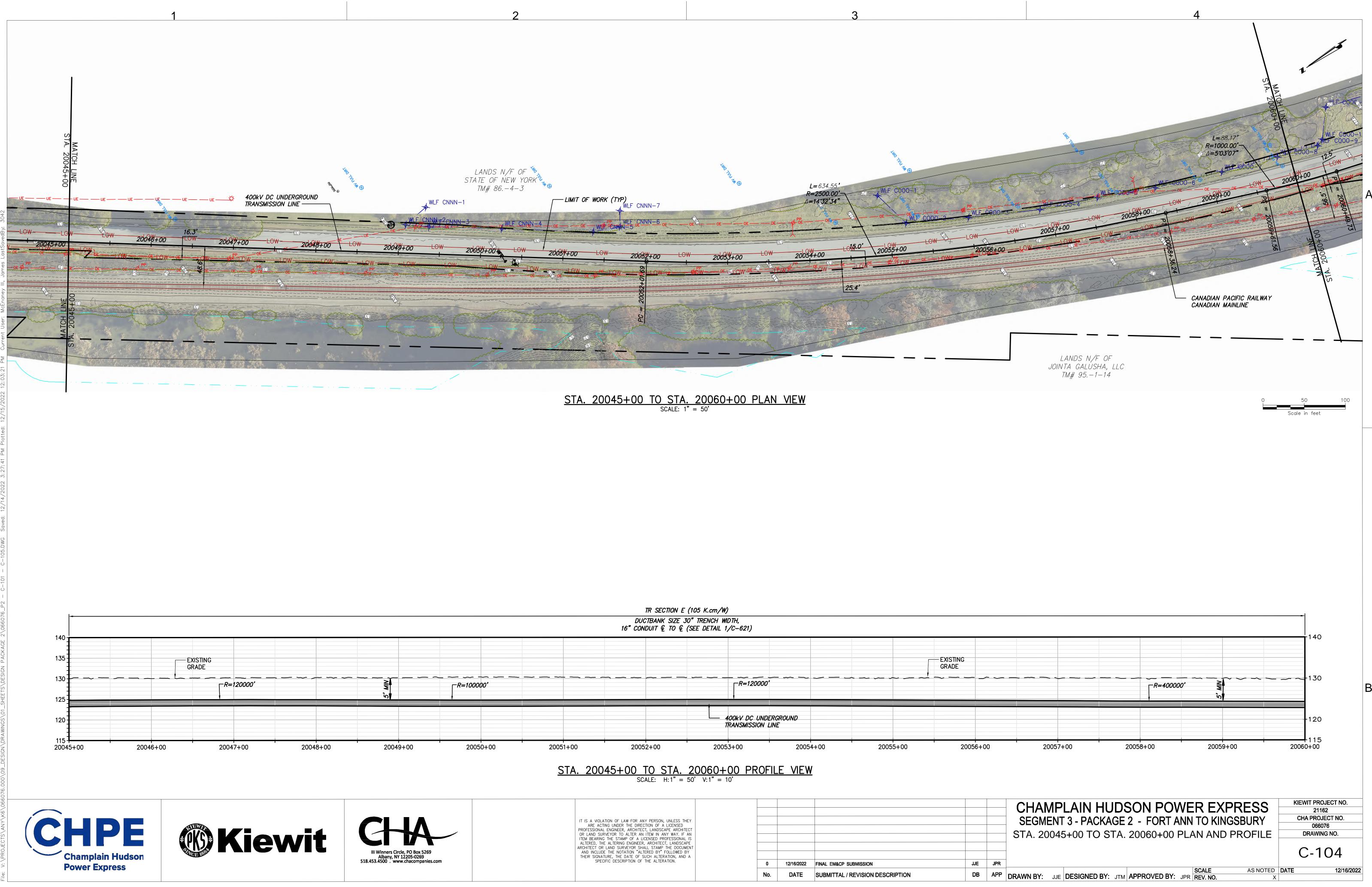








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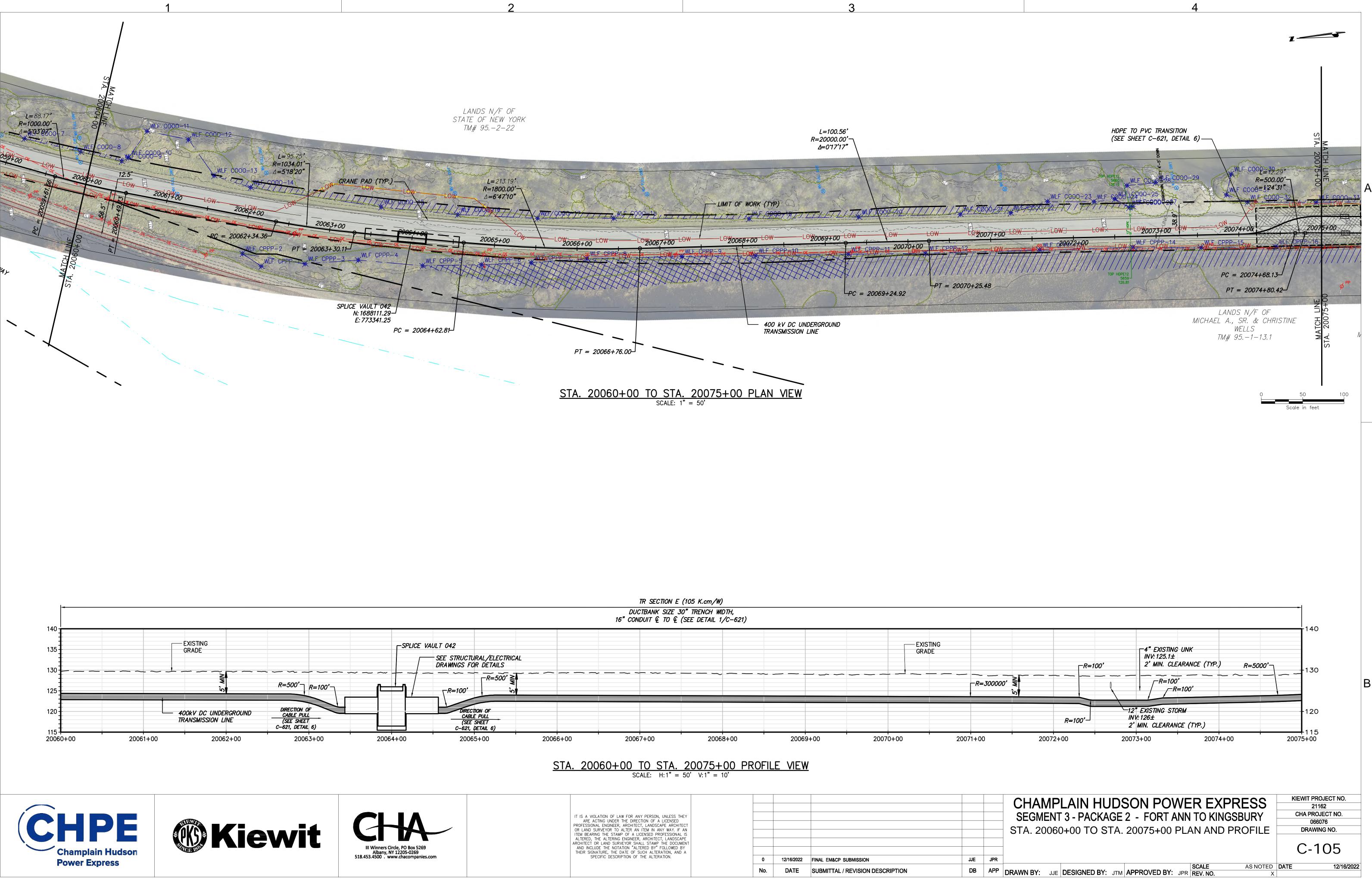






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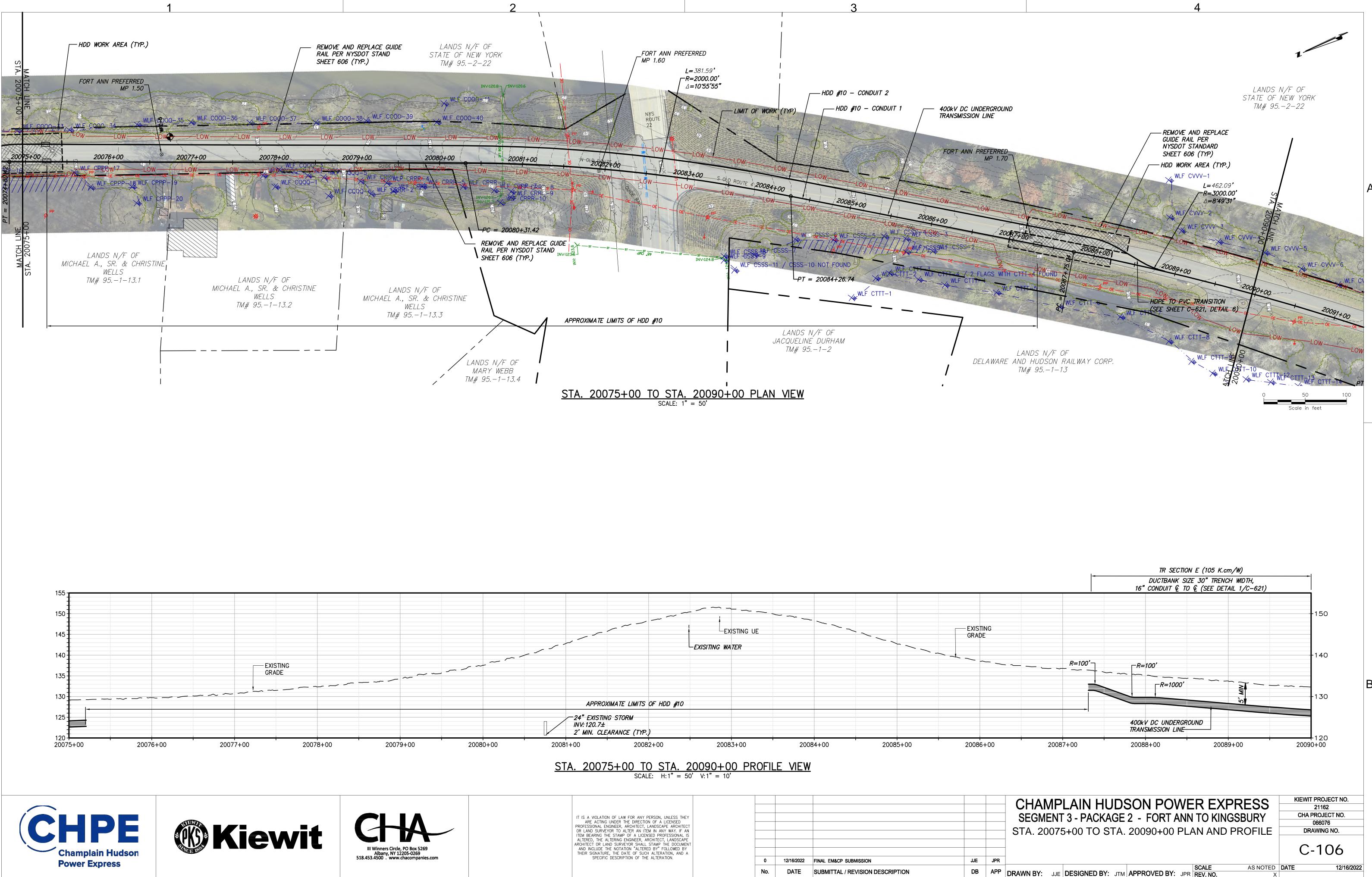
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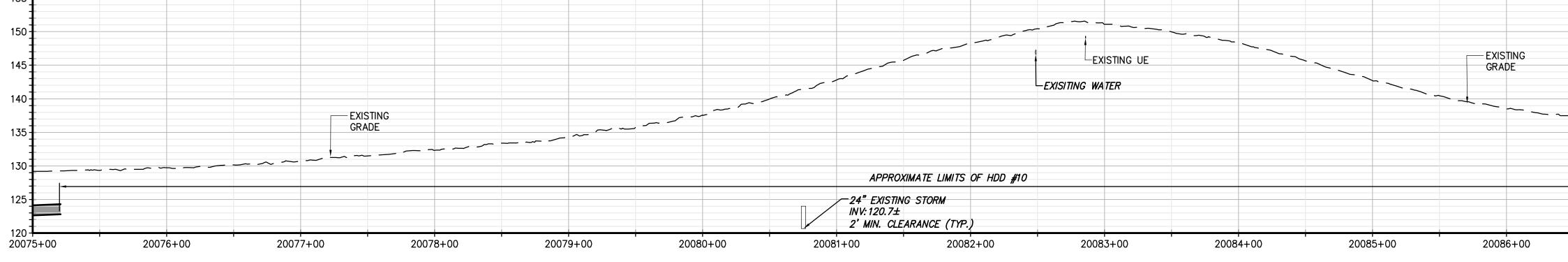










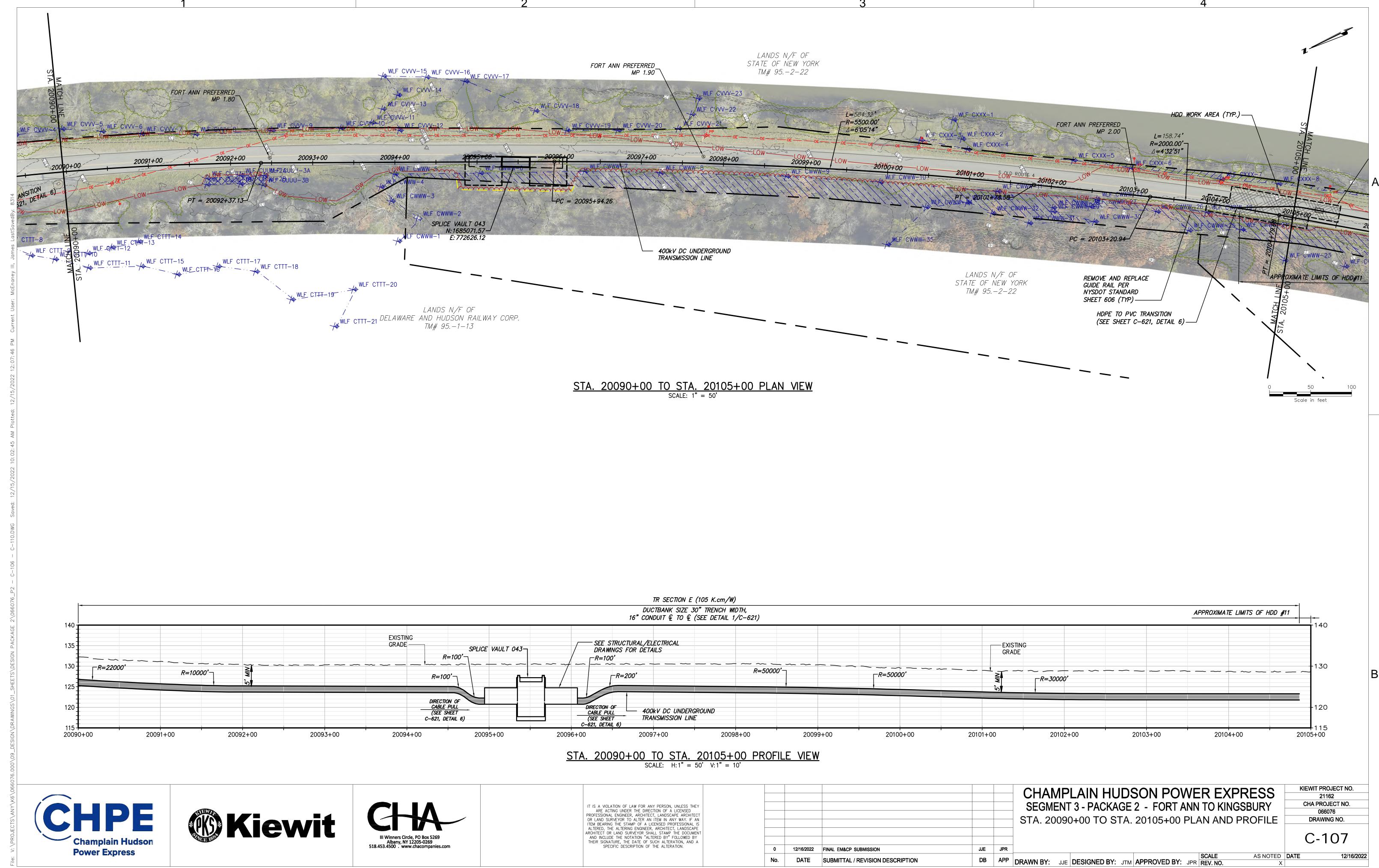








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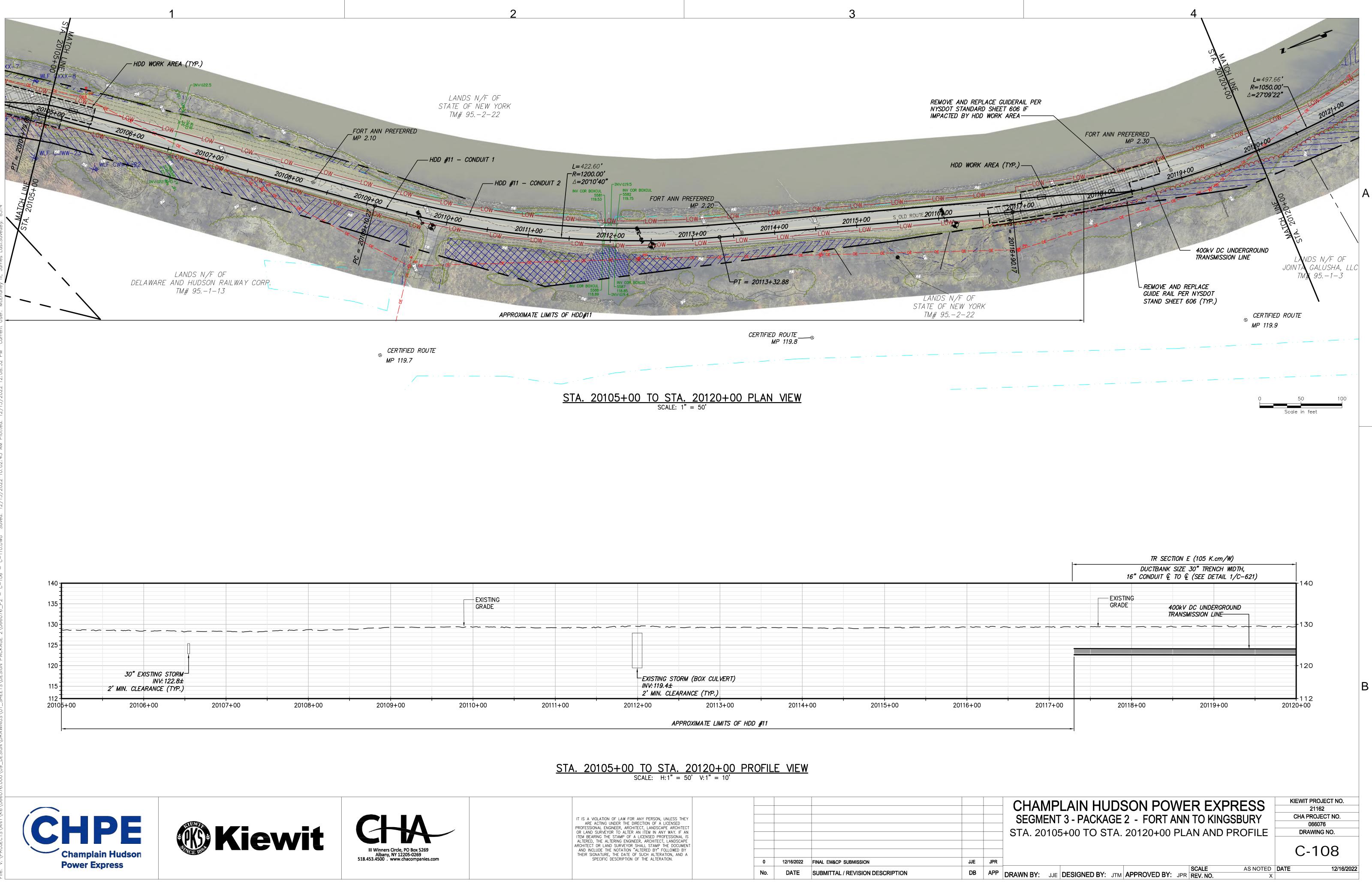








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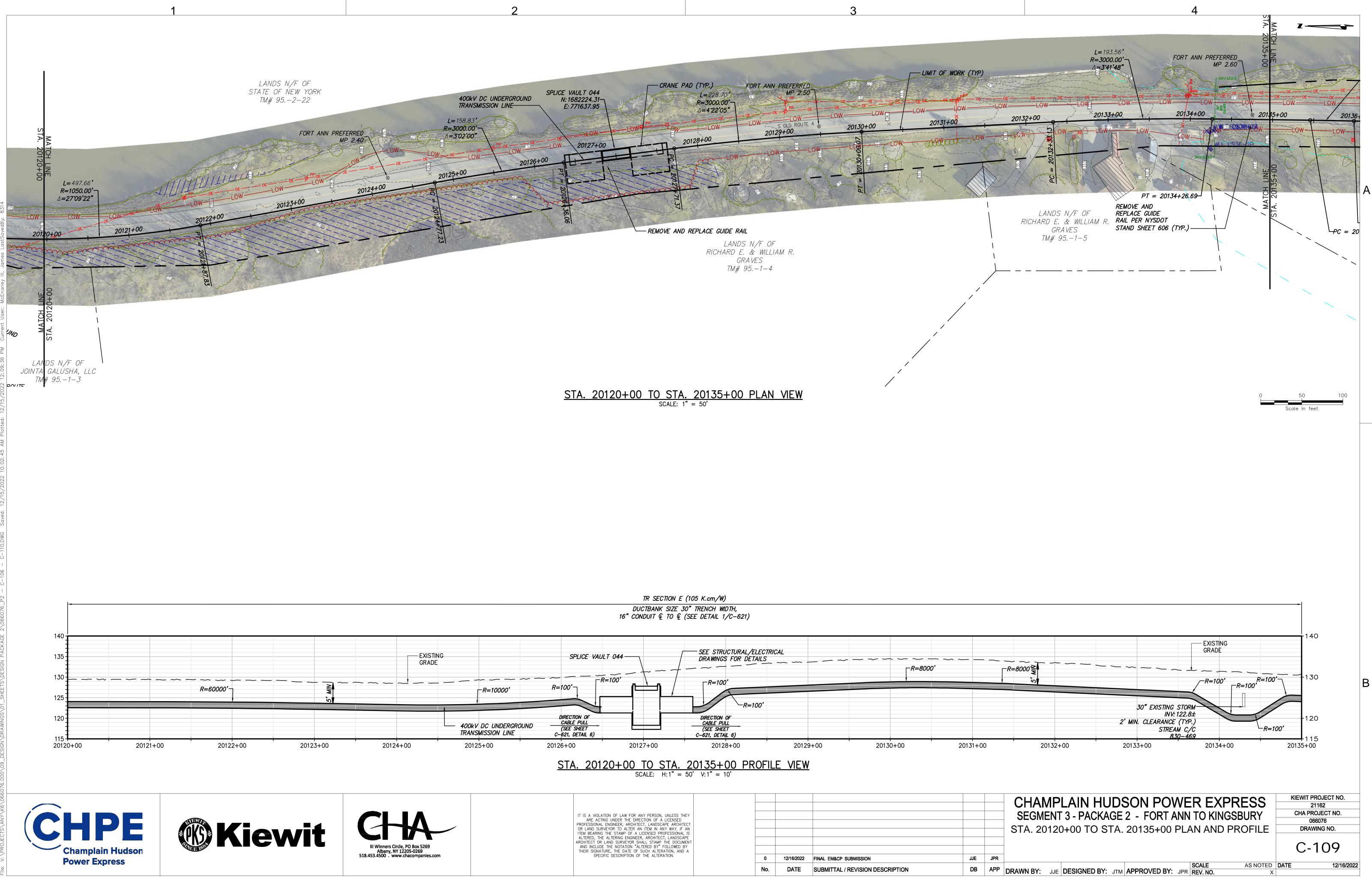




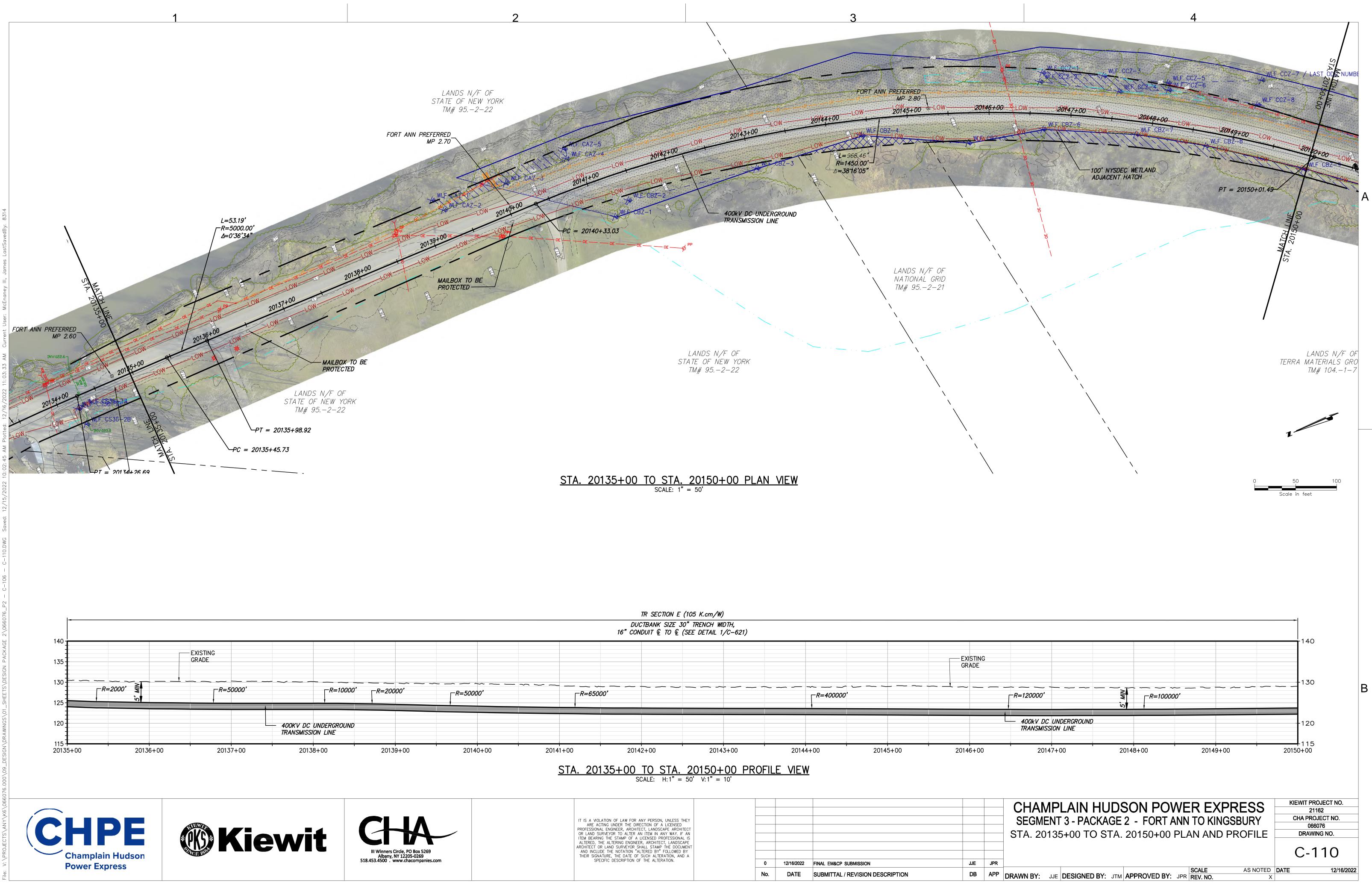




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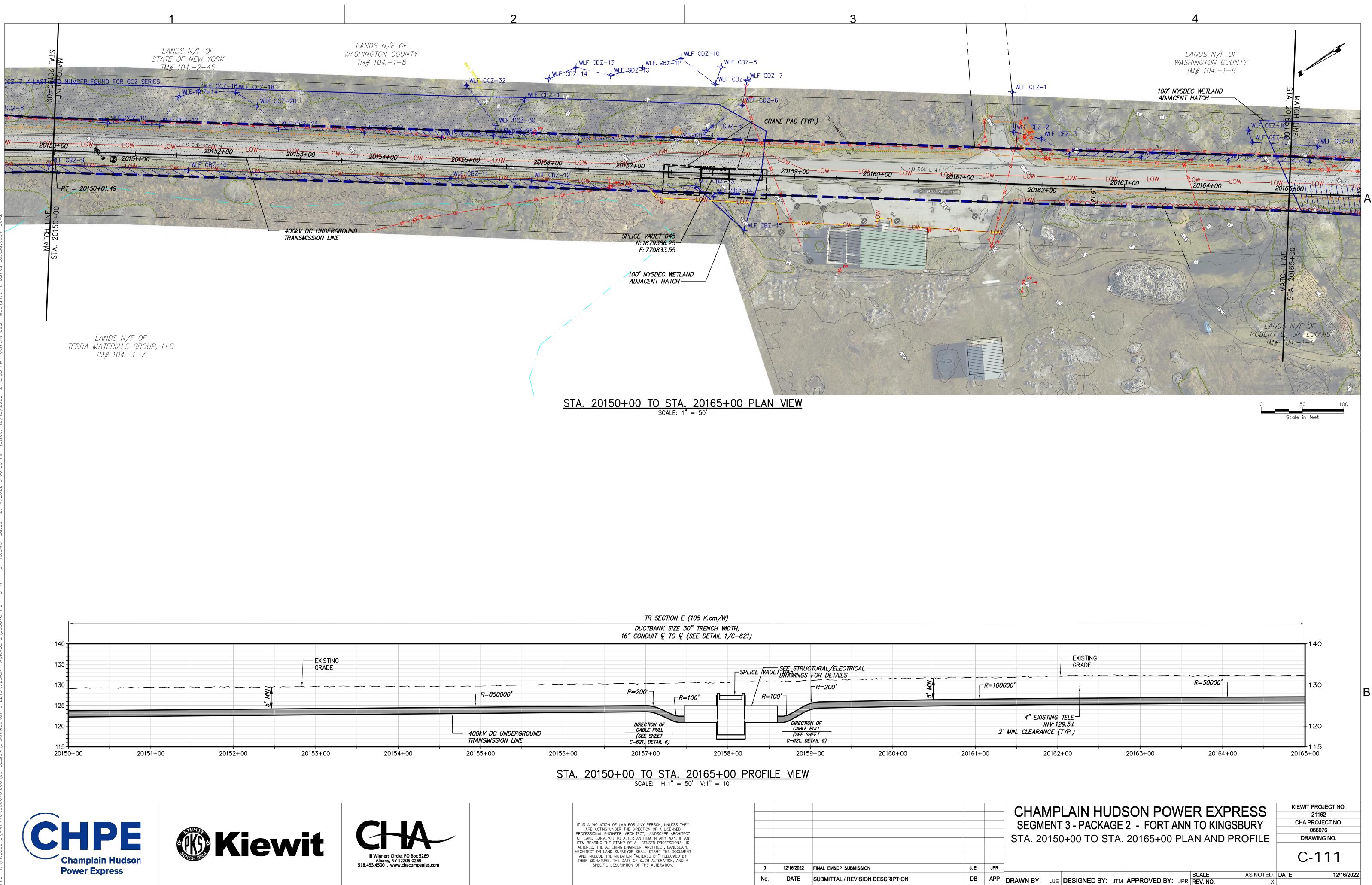




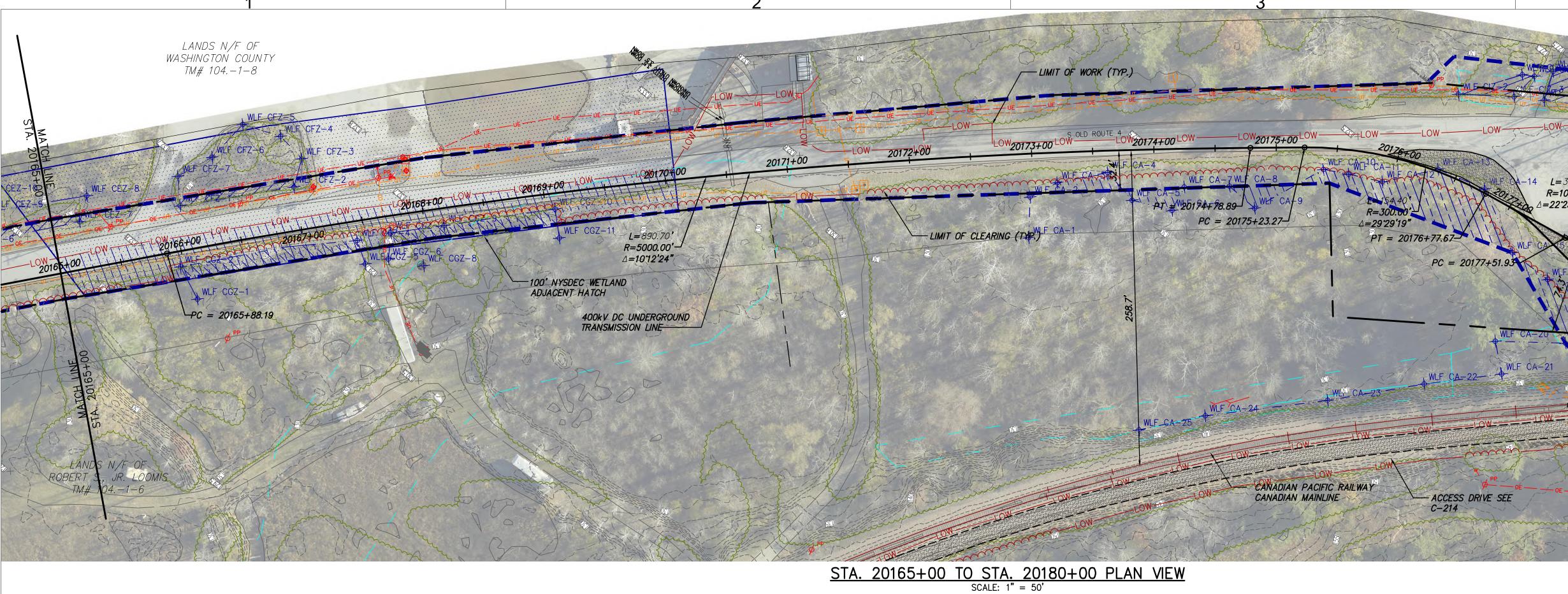


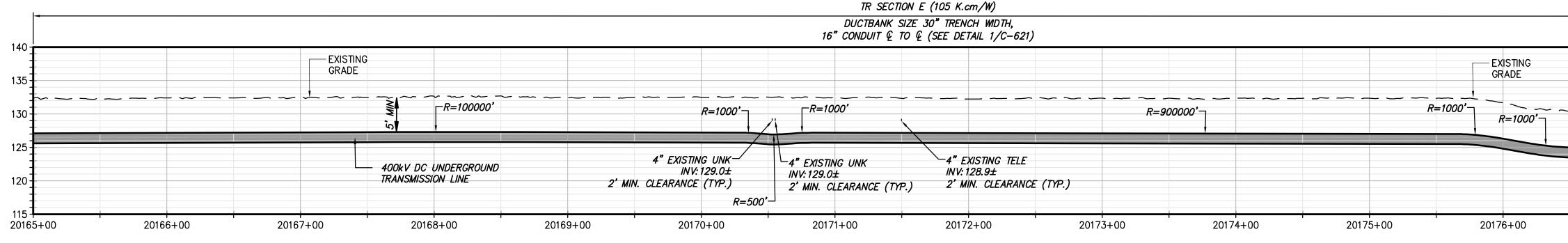


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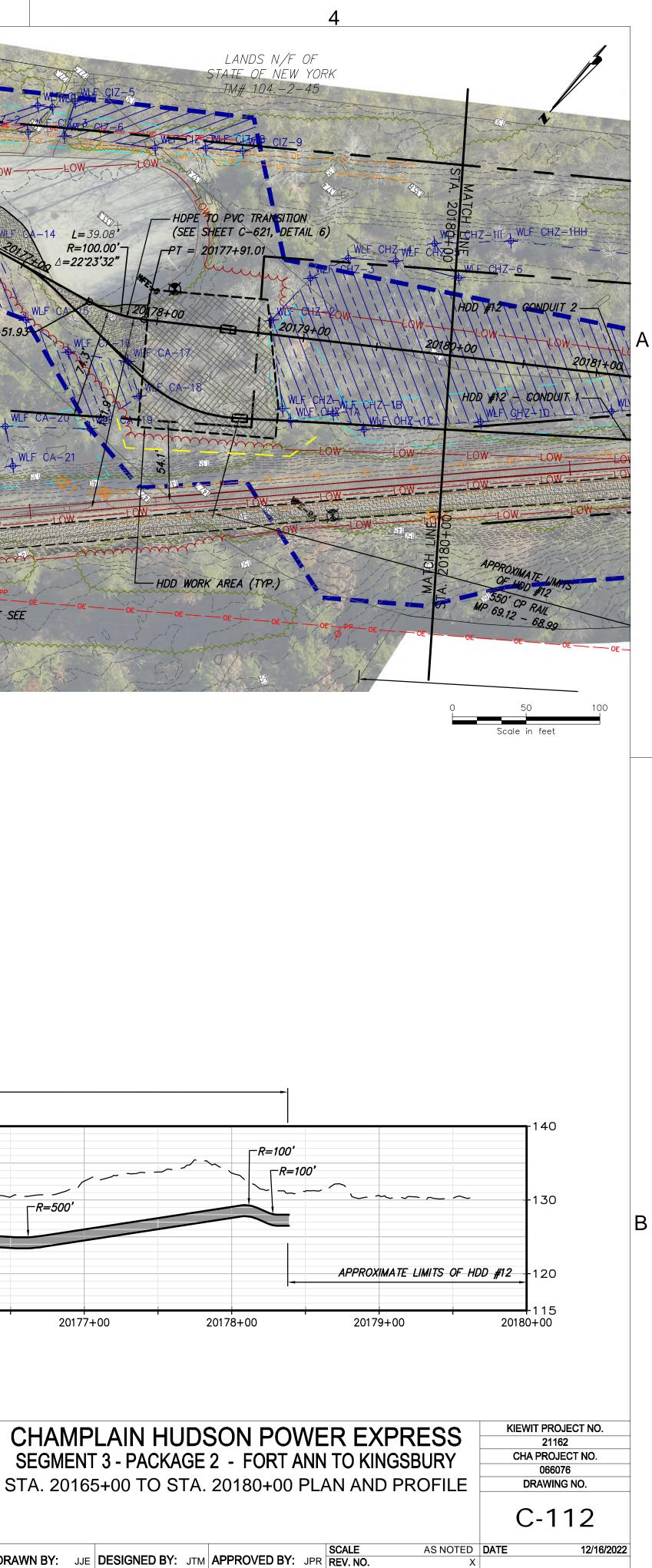


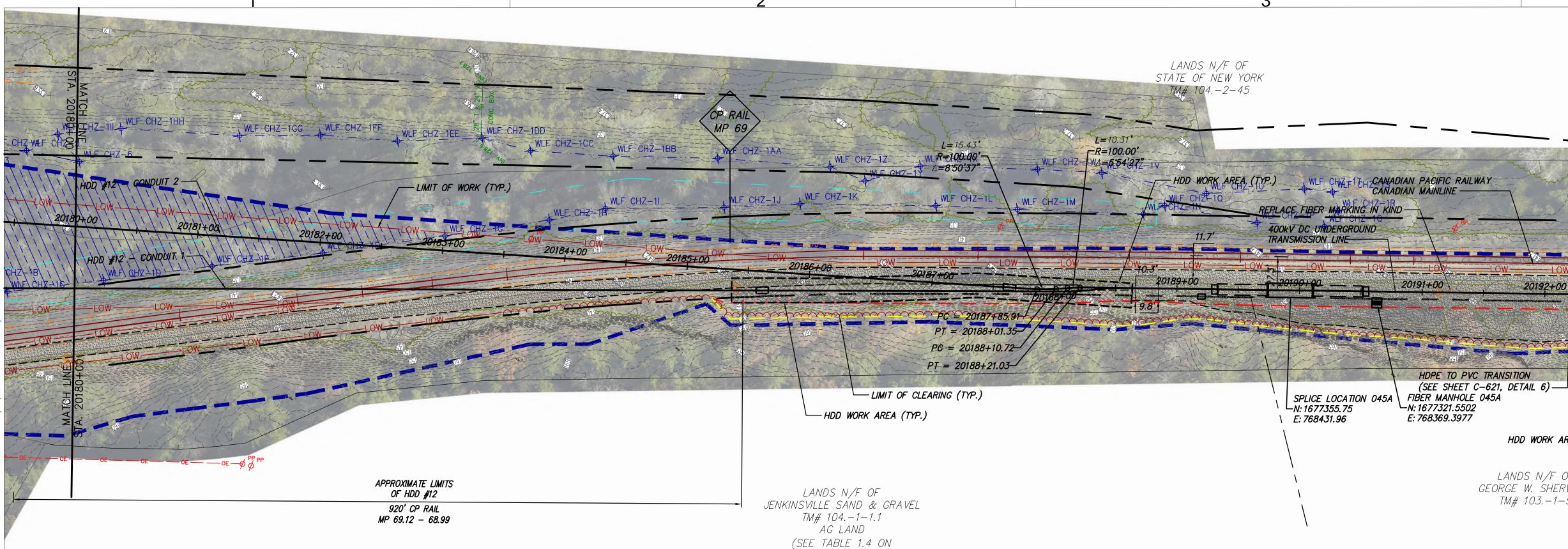




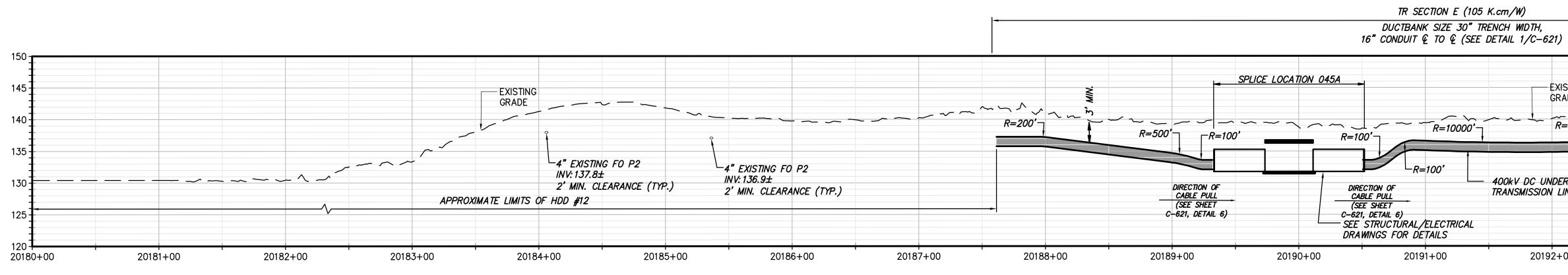
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IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL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

## STA. 20165+00 TO STA. 20180+00 PROFILE VIEW SCALE: H: 1" = 50' V: 1" = 10'





SHEET G-011)





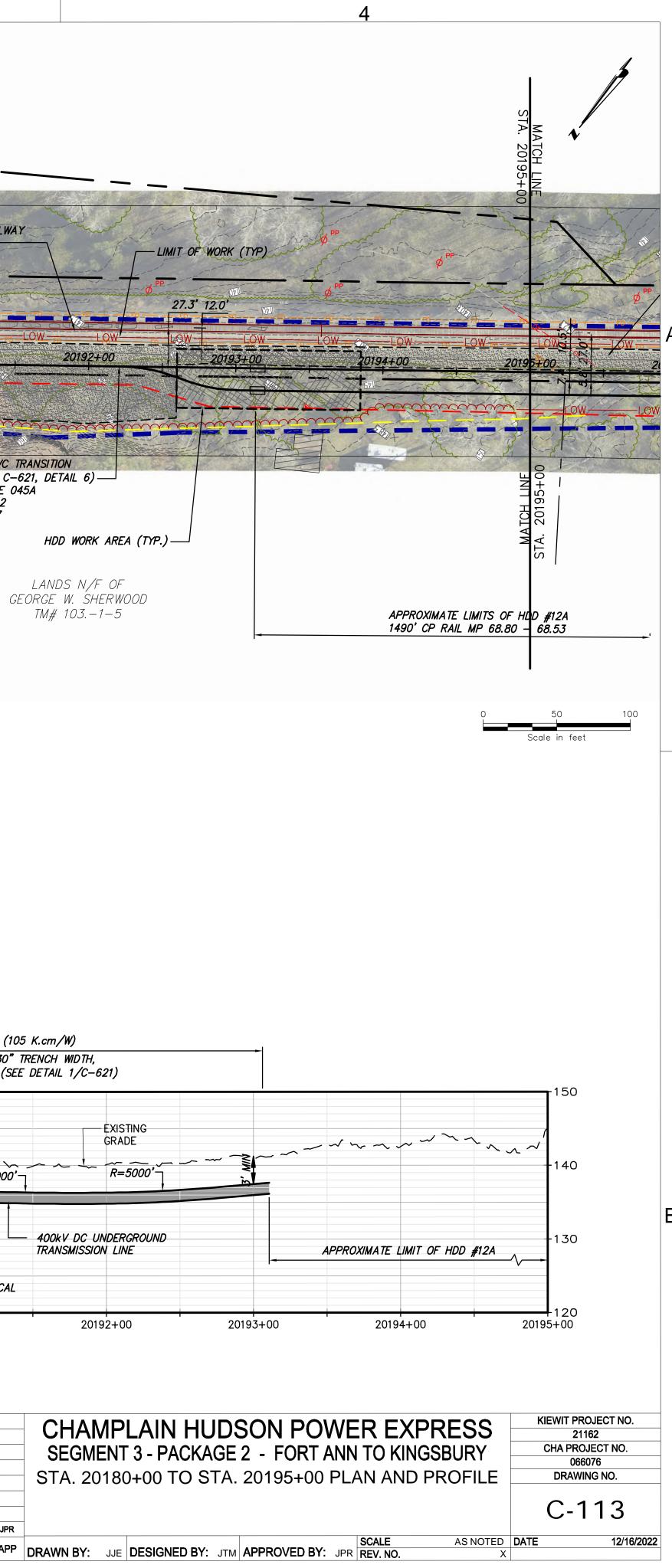


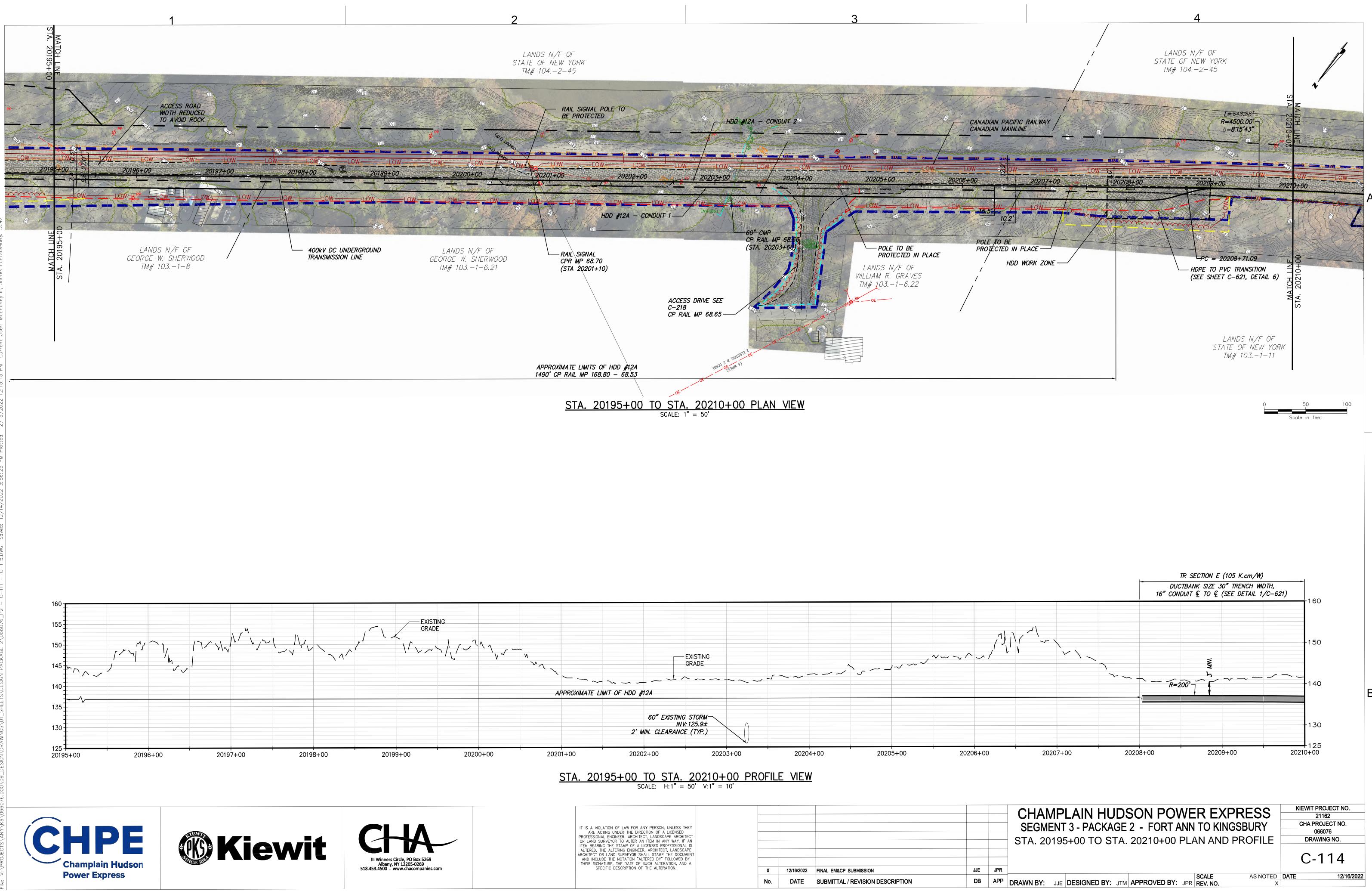


## STA. 20180+00 TO STA. 20195+00 PLAN VIEW SCALE: 1" = 50'

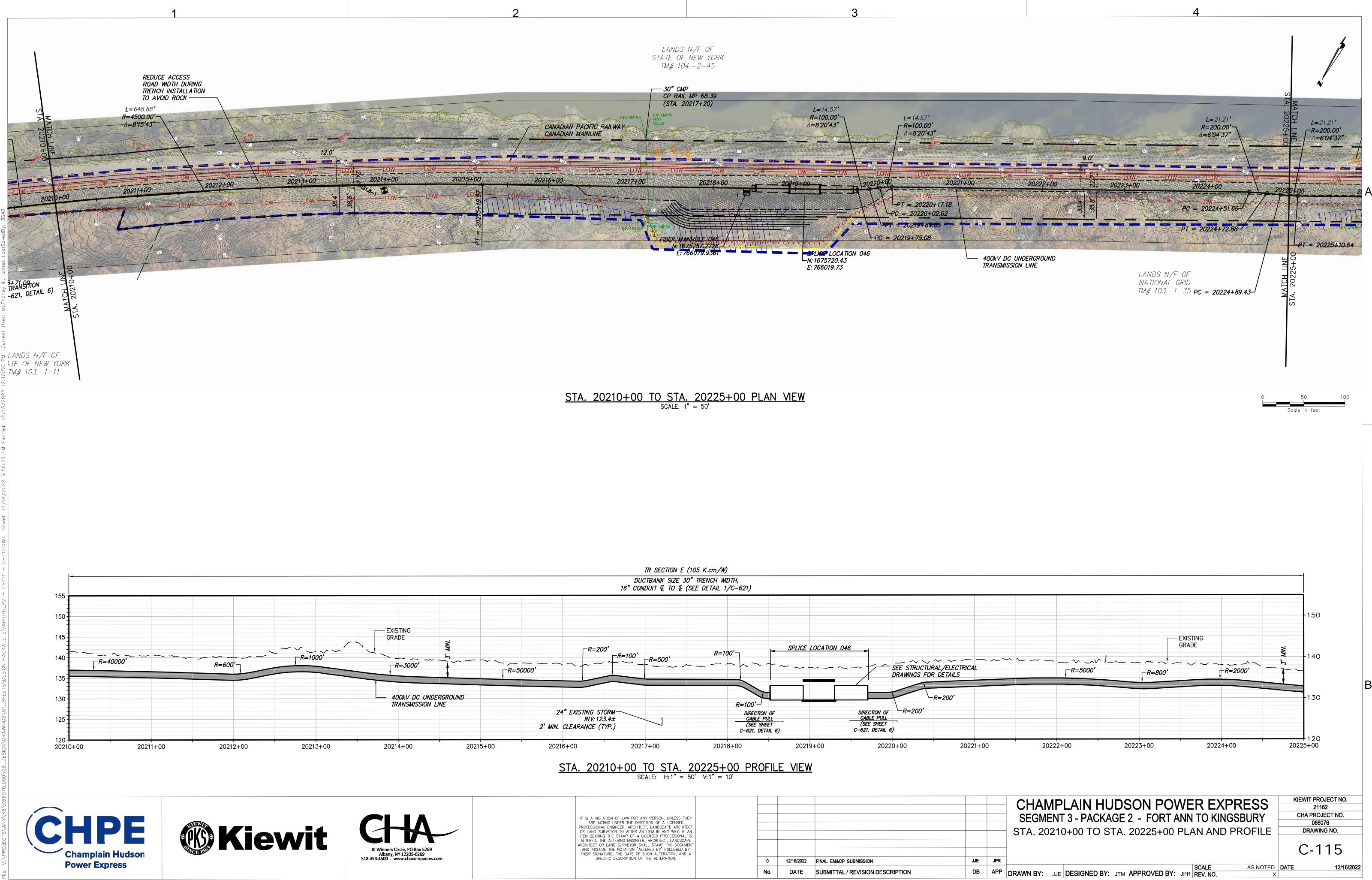
## STA. 20180+00 TO STA. 20195+00 PROFILE VIEW SCALE: H: 1" = 50' V: 1" = 10'

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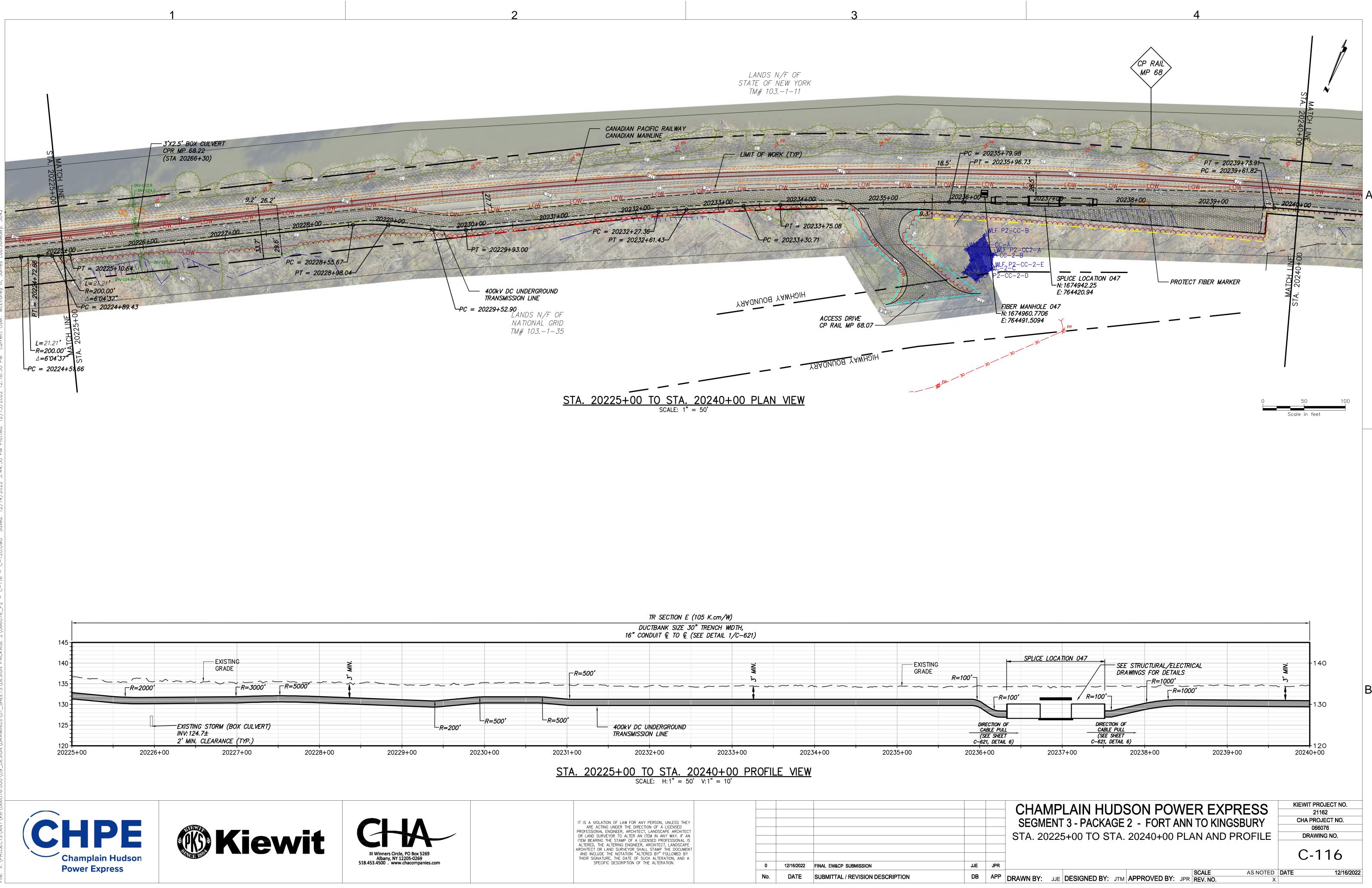




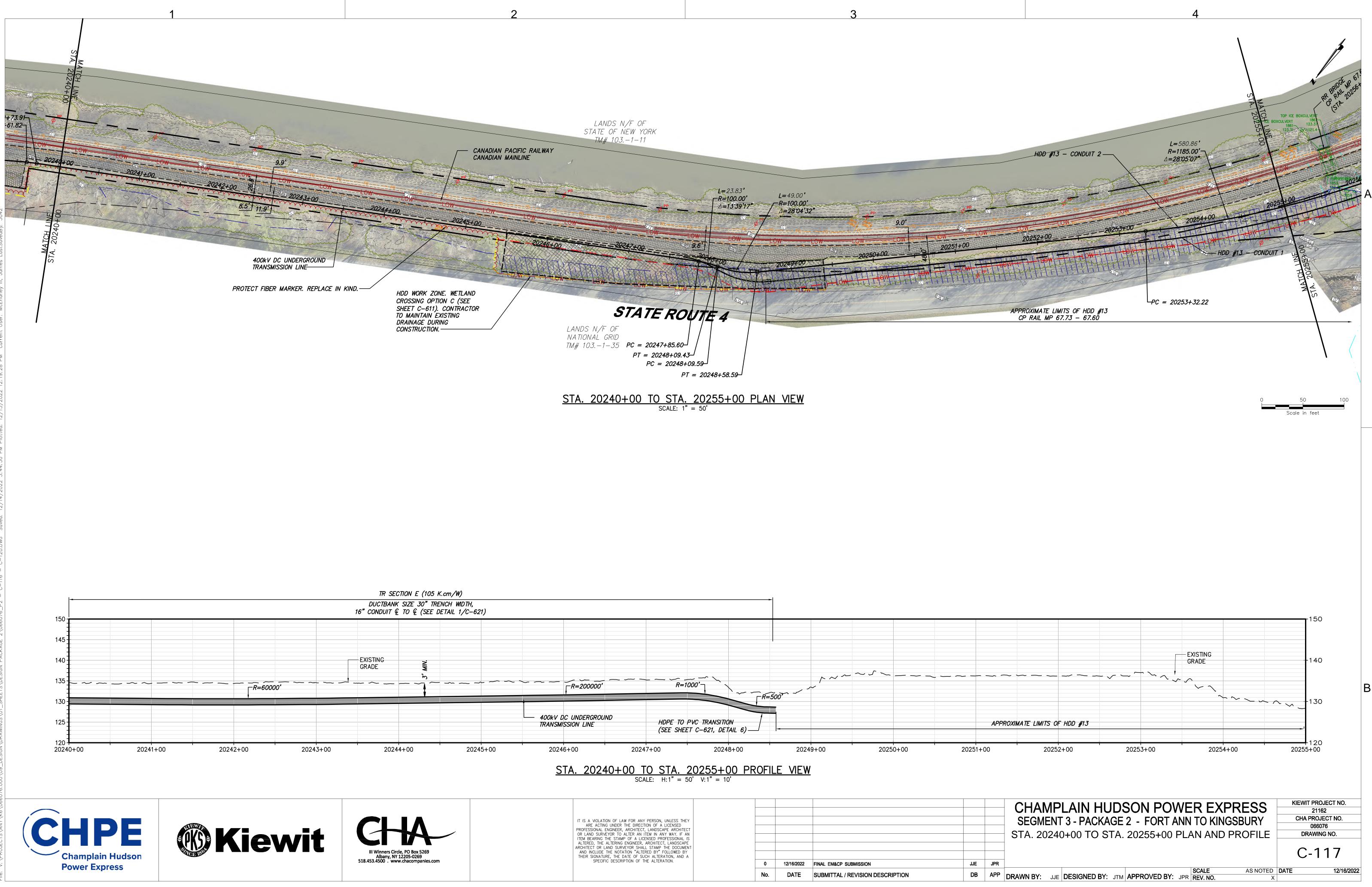
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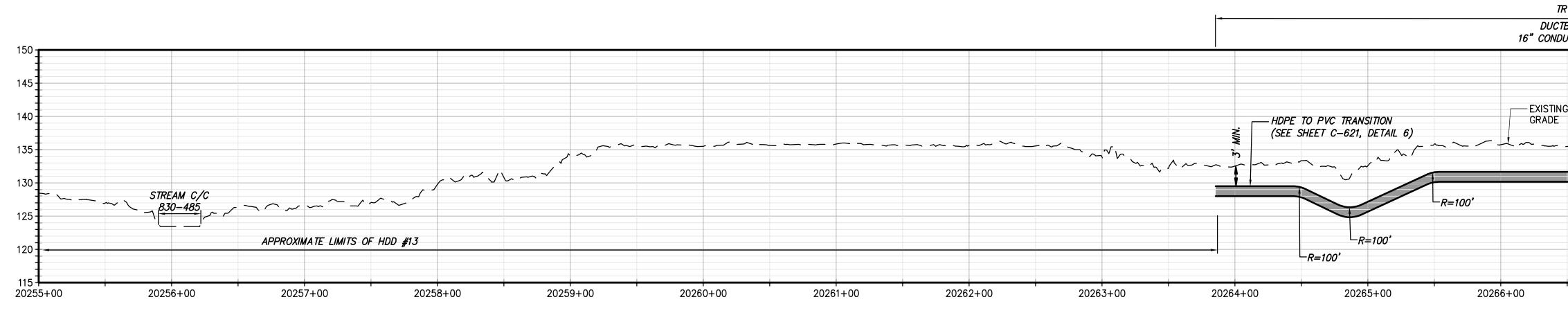


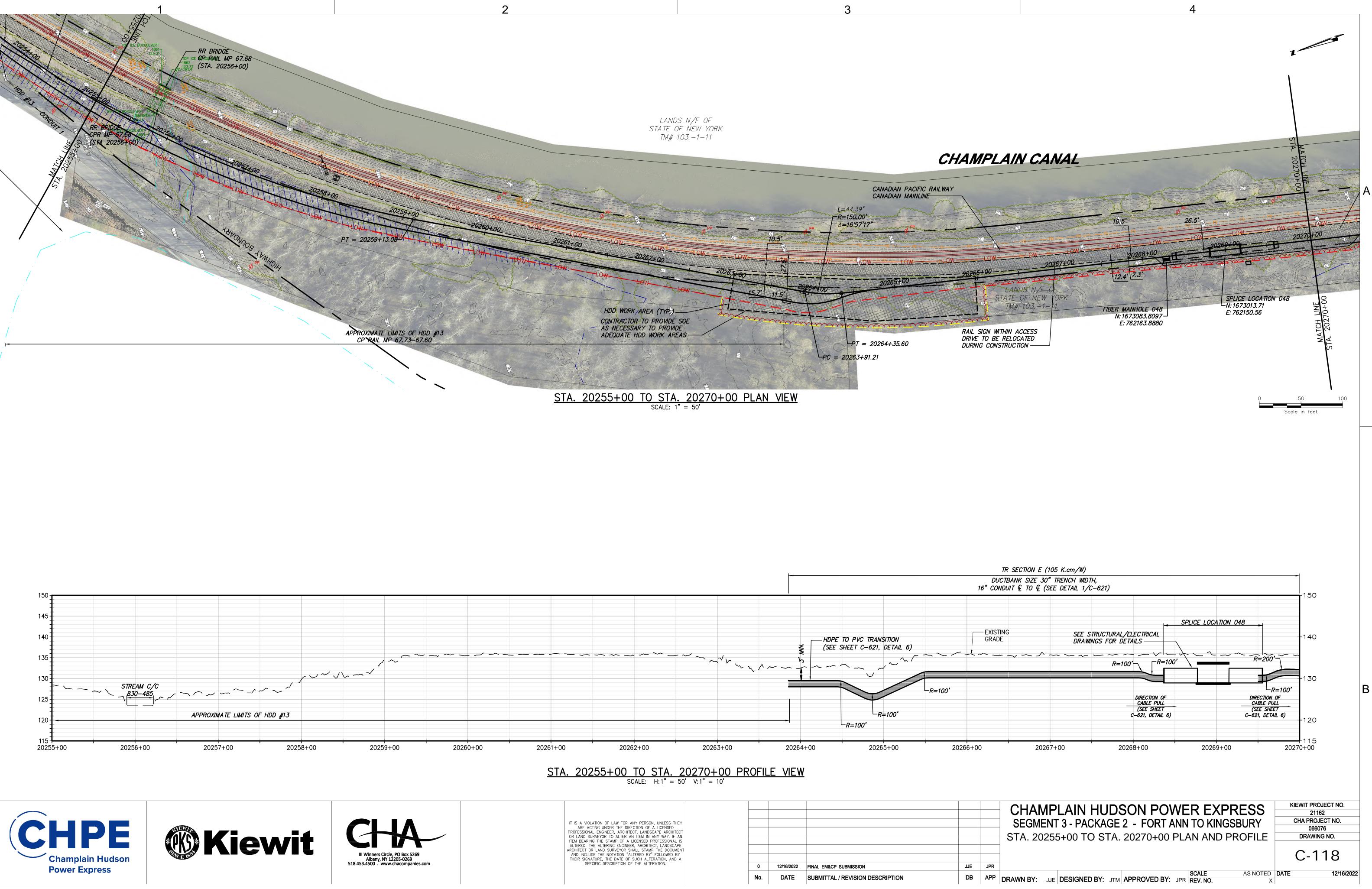
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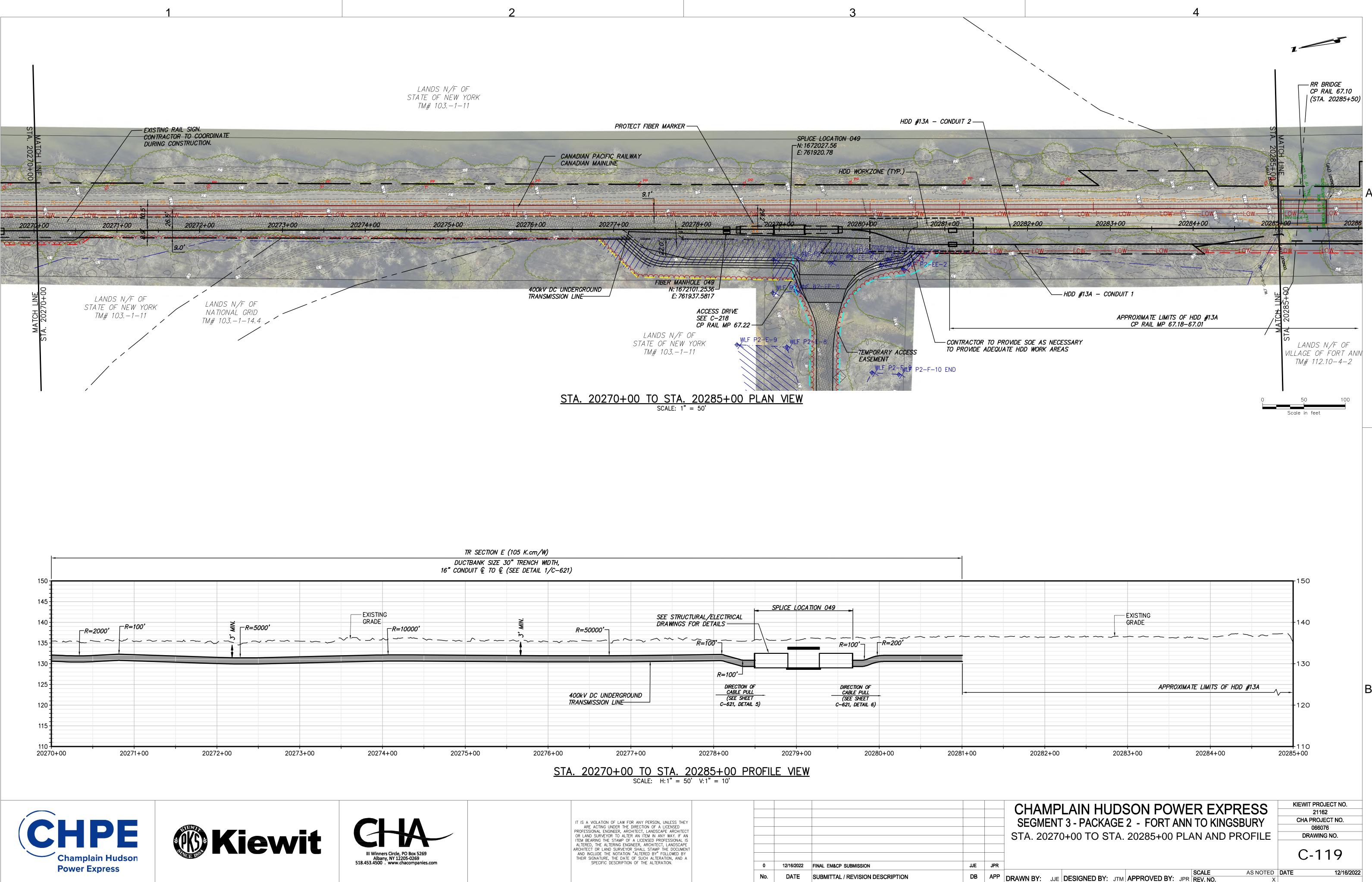








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