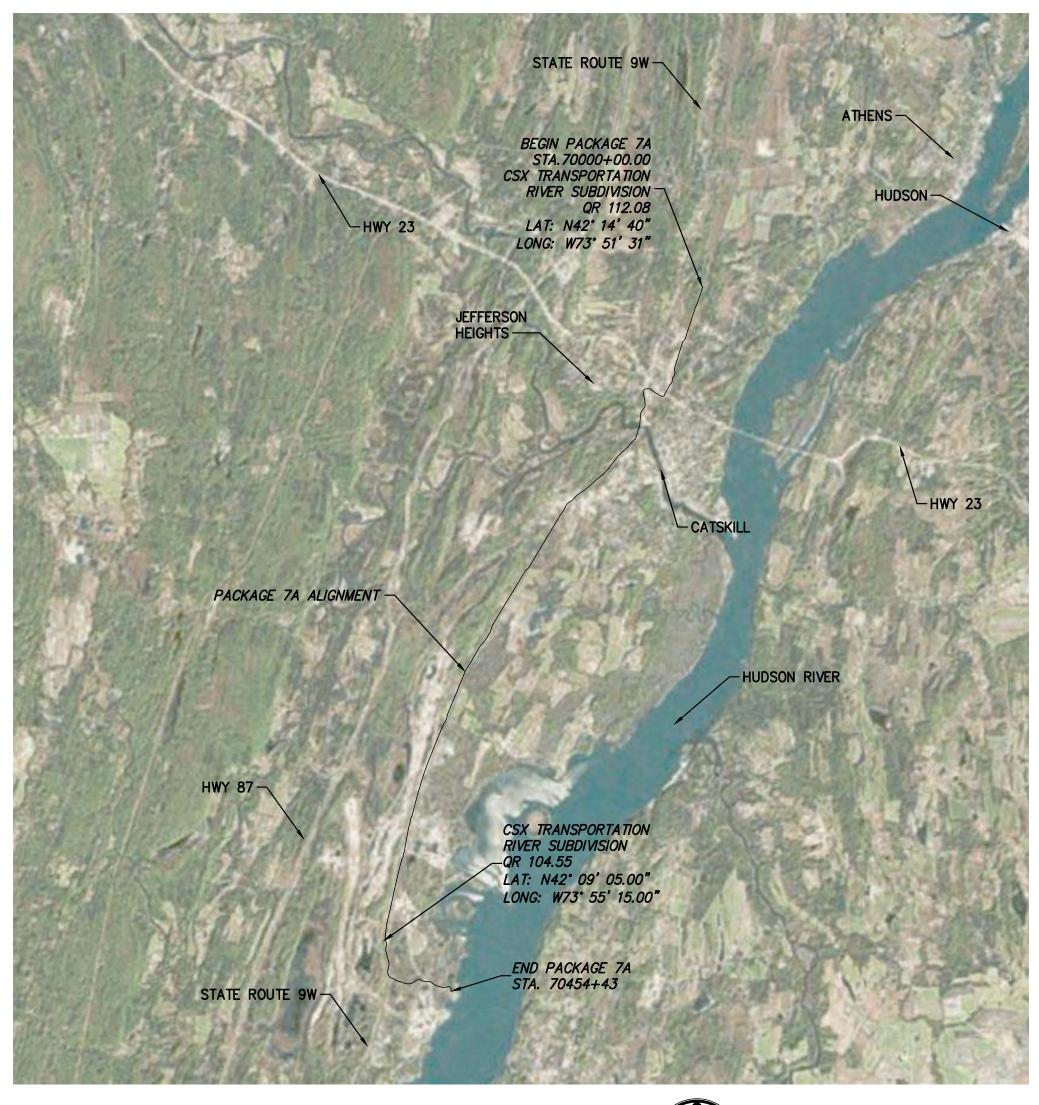
CHAMPLAIN HUDSON POWER EXPRESS

SEGMENT 11 (PACKAGE 7A) CSX: CATSKILL
GREENE COUNTY, NEW YORK
ISSUED FOR CONSTRUCTION SUBMISSION PLANS





06/19/2023 ISSUED FOR CONSTRUCTION SUBMISSION

SUBMITTAL / REVISION DESCRIPTION









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.

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

DB APP DRAWN BY: RB DESIGNED BY: AC APPROVED BY: JL REV. NO

TT PROJECT NO.
204-3701
DRAWING NO.

KIEWIT PROJECT NO.

G-000

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



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					SEGMENT 11 (PACKAGE 7A) - CSX: CA
0	06/19/2023	ISSUED FOR CONSTRUCTION SUBMISSION	RB	JL	
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	DRAWN BY: RB DESIGNED BY: AC APPROVED BY: JL REV. NO.

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

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

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CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED APPROVAL OF THE ENGINEER. CHANGES TO THE

- 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.
- 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.

SHALL BE DESIGNED TO MINIMUM CSX AND AREMA REQUIREMENTS.

PLAN SHALL BE DONE IN ACCORDANCE WITH THE EM&CP SECTION 3.2.6.

- 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
- 12. CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF WORK IN CONFORMANCE WITH REFERENCE SECTION 4.4.6 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/COVERS WITHIN PAVED AREAS SHALL HAVE THE TOPS SET FLUSH WITH THE EXISTING PAVEMENT GRADE. IN LANDSCAPED AREAS, ALL FRAMES SHALL BE 0.1' ABOVE GRADE.
- 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 AND TOWN/COUNTY ROADS, 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
- 21. CONTRACTOR TO COORDINATE ALL DRIVEWAY CROSSINGS WITH THE PROPERTY OWNERS PRIOR TO EXCAVATING. ACCESS TO ALL DRIVEWAYS FOR THE RESIDENTS AND COMMERCIAL PROSPERITIES, 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. WORKING IN WETLANDS: IN GENERAL, STOCKPILING IN WETLANDS AND GRADING WETLAND SOILS FOR ANY ROADS, WORK AREAS, OR PADS IS PROHIBITED. IN ORDER TO ACHIEVE DESIGN GRADES FOR CONSTRUCTION OPERATIONS, EITHER 1) TIMBER MATTING WILL BE LAYERED (STACKED), OR 2) TOPSOIL WILL BE STRIPPED AND STOCKPILED OUTSIDE OF WETLAND AREAS, GEOTEXTILE FABRIC WILL BE PLACED UNDER FILL PER EM&CP REQUIREMENTS AND APPROVED DETAILS. THE CONTOURS SHOWN WITHIN WETLAND AREAS IN THESE PLANS DEPICT THE DIFFERENCE BETWEEN EXISTING AND PROPOSED ELEVATIONS AND ARE NOT INTENDED TO REPRESENT STOCKPILING IN WETLANDS OR GRADING EXISTING WETLAND SOILS. FOR SPECIFIC REQUIREMENTS FOR WORKING IN WETLAND AREAS INCLUDING REQUIREMENTS FOR EXCAVATION AND STOCKPILING, REFER TO EM&CP SECTION 4.4.3 AND 9.1.2.
- 24. AS CONSTRUCTION, OPERATIONAL, AND SAFETY REQUIREMENTS ALLOW; THE CONTRACTOR HAS THE OPTION TO REDUCE IMPACTS (INCLUDING WITHIN WETLAND AREAS) BY 1) REDUCING THE AREA OF TIMBER MATTING, WORK AREAS, OR ACCESS ROADS DEPICTED IN THESE PLANS, AND 2) INCREASING THE LONGITUDINAL AND TRANSVERSE SLOPES OF ROADS AND WORK AREAS.
- 25. SERVICE CONNECTIONS TO BE FIELD LOCATED PRIOR TO CONSTRUCTION.
- 26. FENCES IMPACTED BY CONSTRUCTION WILL BE REPLACED IN KIND. IF A DIFFERENT AGREEMENT IS REACHED WITH THE FENCE OWNER, DPS WILL BE INFORMED.

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 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, COMPOST FILTER SOCK, 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. "IN AREAS WHERE SOIL DISTURBANCE ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED, THE APPLICATION OF SOIL STABILIZATION MEASURES MUST BE INITIATED BY THE END OF THE NEXT BUSINESS DAY AND COMPLETED WITHIN FOURTEEN (14) DAYS FROM THE DATE THE CURRENT SOIL DISTURBANCE ACTIVITY CEASED."
- 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. AREAS TO BE SEEDED MUST BE FREE OF LARGE ROCKS AND DEBRIS, AND SEEDED WITHIN 24 HOURS OF DISTURBANCE, OR SCARIFICATION OF THE SOIL SURFACE WILL BE NECESSARY PRIOR TO SEEDING.
- 9. MULCH SHALL BE APPLIED IN CONJUNCTION WITH SEEDING AND APPLIED AT THE RATE OF 90 LBS PER 1000 SQUARE FEET. MULCH SHALL BE REAPPLIED AS NECESSARY.
- 10. 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.
- 11. 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.
- 12. CONSTRUCTION ROAD STABILIZATION SHALL FOLLOW THE NEW YORK STATE STANDARDS FOR EROSION AND SEDIMENT CONTROL ("BLUE BOOK"), PAGE 2.23. CONSTRUCTION ROADS SHALL BE LOCATED TO REDUCE EROSION POTENTIAL, MINIMIZE IMPACT ON EXISTING SITE RESOURCES. AND MAINTAIN OPERATIONS IN A SAFE MANNER.
- 13. GENERAL CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
- 14. 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.
- 15. GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO TAKE WHATEVER MEANS NECESSARY TO ESTABLISH PERMANENT SOIL STABILIZATION.
- 16. 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 TO A VEGETATED AREA. WATER WILL BE PUMPED FROM DEWATERING OPERATIONS INTO PORTABLE SEDIMENT TANKS OR COMMERCIAL SEDIMENT FILTER BAGS TO SETTLE SUSPENDED SILT MATERIAL PRIOR TO DISCHARGE. DIRECT DISCHARGE OF SEDIMENT LADEN WATER TO STATE AND/OR FEDERALLY REGULATED STREAMS AND STORMWATER SYSTEMS WILL BE AVOIDED.
- 17. ONCE THE CONSTRUCTION ACTIVITIES ARE COMPLETE, ALL DISTURBED VEGETATED AREAS SHALL BE TOPSOILED, SEEDED, AND STABILIZED NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY. EROSION CONTROL DEVICES WILL REMAIN IN PLACE UNTIL DISTURBED AREAS ARE PERMANENTLY STABILIZED. SOIL STABILIZATION MEASURES SHALL CONFORM WITH THE MOST CURRENT VERSION OF THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL ("BLUE BOOK"). PERMANENT SEED MIX WILL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- 18. CONCRETE WASHOUTS DEPICTED ON PLANS ARE FOR REFERENCE ONLY. CONTRACTOR TO FIELD LOCATE WASHOUTS AS NECESSARY. FIELD LOCATED WASHOUTS SHALL BE LOCATED CONSTRUCTED IN ACCORDANCE WITH THE EM&CP AND SHALL BE A MINIMUM OF 100' FROM ADJACENT WETLANDS AND 200' FROM ANY EXISTING WELLS.
- 19. FOR SITES WHERE CONSTRUCTION ACTIVITIES TEMPORARILY CEASE IN THE WINTER, TEMPORARY AND PERMANENT SOIL STABILIZATION MEASURES WILL BE INSTALLED WITHIN 7 DAYS FROM THE DATE THE SOIL DISTURBING ACTIVITY CEASED. IF THE GROUND IS COVERED BY SIGNIFICANT AMOUNTS OF SNOW, WINTER RYE SHOULD BE USED FOR STABILIZATION (90-LBS PER ACRE).
- 20. MEASURES USED FOR DUST CONTROL SHALL FOLLOW THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL ("BLUE BOOK") FOR DUST CONTROL, PAGE 2.25. ONLY PLAIN WATER WILL BE USED FOR DUST SUPPRESSION.

HDD PLAN & PROFILE NOTES:

- 1. UNLESS NOTED OTHERWISE ON C-300 SERIES HDD PLAN AND PROFILES, EACH SITE INCLUDES TWO HDD BORES. BOTH BORES INCLUDE A 10" DIAMETER HDPE OR 8" FPVC CONDUIT FOR A HVDC ELECTRICAL TRANSMISSION CABLE. ONE OF THE BORES WILL ALSO INCLUDE A 3" CONDUIT BUNDLED IN THE PULLBACK BUNDLE FOR A TELECOMMUNICATION LINE.
- 2. MINIMUM HORIZONTAL SPACING BETWEEN CONDUIT 1 AND CONDUIT 2 SHALL BE MAINTAINED AT THE DESIGN LOCATION AND WITHIN SPECIFIED TOLERANCE AS DETERMINED BY ELECTRICAL ENGINEERING ON BEHALF OF THE OWNERS. IN CONSTRUCTION, THE HORIZONTAL SPACING SHALL BE CONTROLLED AND MAINTAINED SUCH THAT THE AS-BUILT SPACING SHALL NEVER BE CLOSER THAN THE SPECIFIED HORIZONTAL SPACING PRESENTED ON THE INDIVIDUAL HDD SHEET.
- 3. MAXIMUM VERTICAL DEPTH OF CONDUIT 1 AND CONDUIT 2 SHALL BE MAINTAINED AT THE DESIGN LOCATION AND WITHIN SPECIFIED TOLERANCE AS DETERMINED BY ELECTRICAL ENGINEERING ON BEHALF OF THE OWNERS.
- 4. HDD CONTRACTOR SHALL COORDINATE WITH OVERHEAD ELECTRIC OWNER/OPERATOR TO HAVE TEMPORARY PROTECTIVE SLEEVES INSTALLED ON OVERHEAD POWER LINES THAT CROSS THE ACCESS OR WORKING AREA OF THE WORK SITE.
- 5. SPT N-VALUES SHOWN ON THE C-300 SERIES DRAWINGS ARE NOT CORRECTED FOR SAMPLER SIZE OR HAMMER ENERGY. REFERNCE BORING LOGS AND GEOTECHNICAL REPORTS FOR ADDITIONAL INFORMATION.
- 6. HDD ENTRY PITS ARE SUBJECT TO RELOCATION WITHIN 5-FEET OF DESIGNED ENTRY POINT ON PLANS AND REMAIN WITHIN THE CONFINES OF THE SPECIFIED HDD WORK AREA.
- 7. HDD EXIT PITS ARE SUBJECT TO RELOCATION WITHIN 10-FEET OF DESIGNED EXIT POINT ON PLANS AND REMAIN WITHIN THE CONFINES OF THE SPECIFIED HDD WORK AREA.
- 8. HDD CONDUIT PIPE ASSEMBLY AND PULLBACK DIRECTION ARE SUBJECT TO CHANGE.
- 9. ALL BURIED UTILITY DEPTHS ARE APPROXIMATE. PRIOR TO ANY HDD CONSTRUCTION, EXCAVATION, EXPLORATORY BORING, OR UTILITY LOCATE EXCAVATION, CONTRACTOR MUST CONTACT 811, OBTAIN A PERMIT, MAINTAIN THE PERMIT CURRENT UNTIL CONTRACTOR WORK TASK HAS BEEN COMPLETED AND ABIDE BY ALL STATE EXCAVATION REQUIREMENTS. REPORT ALL CONFLICTING UTILITIES THAT REQUIRE MODIFICATION TO THE HDD DESIGN TO THE ENGINEER WITHIN 12 HOURS OF THE DISCOVERY.
- 10. THE MINIMUM SEPARATION DISTANCE FROM THE CLOSEST PROXIMITY OF ANY EXISTING SUBSURFACE UTILITY SHALL NOT BE LESS THAN 120 INCHES AS MEASURED FROM THE OUTSIDE EDGE OF THE UTILITY TO THE OUTSIDE EDGE OF THE FULLY CONSTRUCTED HDD BORE PATH UNLESS GREATER SEPARATION IS SHOWN ON THE C-300 SERIES DRAWINGS.
- 11. ALL COORDINATES REFERENCE NEW YORK STATE PLANE FOR THE APPROPRIATE ZONE AND ELEVATIONS REFERENCE NAD83. MEASUREMENTS ARE IN FEET.
- 12. SITE BOUNDRIES, ENVIRONMENTAL BARRIER LOCATION, AND ENTRY & EXIT LOCATIONS SHALL BE STAKED FOR THE HDD DRILLING TEAM TO REFERENCE DURING CONSTRUCTION.
- 13. HDD CONTRACTOR SHALL PROVIDE AN AS-BUILT PLAN AND PROFILE OF THE PILOT BORE PATH INDICATING COMPLIANCE WITH PROJECT SPECIFICATIONS AND FOR APPROVAL PRIOR TO INITIATING REAMING OPERATIONS. PROVIDE ACTUAL ENTRY & EXIT COORDINATES AND ELEVATIONS ON THE AS-BUILT PLAN.
- 14. HDD CONTRACTOR TO PLACE A MECHANICAL TEMPORARY CAP ON EACH END OF THE INSTALLED CONDUITS THAT WILL BE SUFFICIENT TO PROTECT THE INSTALLATION FROM DAMAGE OR INTRUSION OF WATER OR OTHER DETRITAL MATERIAL INTO THE CONDUITS. DUCT TAPE OR PLASTIC BAGS ARE NOT ACCEPTIBLE AS A MECHANICAL TEMPORARY CAP.
- 15. THE TELECOMMUNICATIONS CONDUIT/CASING SHALL BE BUNDLED WITH THE CONDUIT INTENDED TO CARRY THE NEGATIVE CONDUCTOR. THE HDD CONTRACTOR SHALL BORE AND PULL BACK THE NEGATIVE CONDUIT AND BUNDLE PRIOR TO THE POSITIVE CONDUIT. IF THE COMMUNICATIONS CONDUIT FAILS OR IS OTHERWISE COMPROMISED IN PULL BACK, HDD CONTRACTOR SHALL NOTIFY THE ELECTRICAL ENGINEER TO FACILITATE APPROVALS AND SUBSEQUENT RECOMMENDATIONS REGARDING REPOUTE OF THE COMMUNICATION CONDUIT/CASING AND THE AS-BUILT REQUIREMENTS NEEDED. THE TELECOMMUNICATIONS CONDUIT MAY THEN BE BUNDLED WITH THE POSITIVE CONDUCTOR CONDUIT FOR THE SECOND PULLBACK.

DISTURBANCE NOTES:

- 1. THE PROPOSED DISTURBANCE FOR THE TRENCH WILL BE LIMITED TO THE WIDTH OF THE TRENCH SECTIONS DEPICTED ON C-621INCLUDING THE OPTION TO BENCH OR SLOPE TRENCH WHERE SPACE IS AVAILABLE AND TRENCH IS NOT LOCATED IN A ROADWAY OR IN PAVEMENT.
- 2. TEMPORARY ACCESS AND WORK AREAS DEPICTED IN THESE PLANS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND CHARACTER TO THE EXTENT PRACTICABLE, 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 IN THE DETAIL SHEETS AND THE EMCP NARRATIVE.









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.



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

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

G-002

1. AUTHORITY OF CSX ENGINEER:

- 1.a. THE CSX REPRESENTATIVE SHALL HAVE FINAL AUTHORITY IN ALL MATTERS AFFECTING THE SAFE MAINTENANCE OF CSX OPERATIONS AND CSX PROPERTY, AND HIS OR HER APPROVAL SHALL BE OBTAINED BY THE CHPE LLC OR ITS CONTRACTOR FOR METHODS OF CONSTRUCTION TO AVOID INTERFERENCE WITH CSX OPERATIONS IN CSX PROPERTY AND ALL OTHER MATTERS CONTEMPLATED BY THE AGREEMENT AND THESE SPECIAL PROVISIONS.
- 2. INTERFERENCE WITH CSX OPERATION
- 2.a. CHPE LLC OR ITS CONTRACTOR SHALL ARRANGE AND CONDUCT ITS WORK SO THAT THERE WILL BE NO INTERFERENCE WITH CSX OPERATIONS, INCLUDING, BUT NOT LIMITED TO: TRAIN, SIGNAL, TELEPHONE AND TELEGRAPHIC SERVICES, OR DAMAGE TO CSX'S PROPERTY, OR TO POLES, WIRES, AND OTHER FACILITIES OF TENANTS ON CSX'S PROPERTY OR RIGHT—OF—WAY. CHPE LLC OR ITS CONTRACTOR SHALL STORE MATERIALS SO AS TO PREVENT TRESPASSERS FROM CAUSING DAMAGE TO TRAINS, OR CSX PROPERTY. WHENEVER WORK IS LIKELY TO AFFECT THE OPERATIONS OR SAFETY OF TRAINS, AN APPROVAL OF THE METHOD OF WORK BY CSXT OR ITS REPRESENTATIVE SHALL NOT RELIEVE CHPE LLC OR ITS CONTRACTOR FROM LIABILITY IN CONNECTION WITH SUCH WORK.
- 2.b. IF CONDITIONS ARISING FROM OR IN CONNECTION WITH THE PROJECT REQUIRE THAT IMMEDIATE AND UNUSUAL PROVISIONS BE MADE TO PROTECT TRAIN OPERATIONS OR CSX'S PROPERTY, CHPE LLC OR ITS CONTRACTOR SHALL MAKE SUCH PROVISION IN COORDINATION WITH CSXT OR ITS REPRESENTATIVE. IF THE CSX REPRESENTATIVE DETERMINES THAT SUCH PROVISIONS IS INSUFFICIENT, CSX MAY, AT THE EXPENSE OF CHPE LLC OR ITS CONTRACTOR, REQUIRE OR PROVIDE SUCH PROVISION AS MAY BE DEEMED NECESSARY, OR CAUSE THE WORK TO CEASE IMMEDIATELY.
- 2.c. SHOULD WORK ACTIVITIES BE REQUIRED WITHIN CSX PROPERTY OR RIGHT—OF—WAY, THE CONTRACTOR SHALL REQUEST CSX TO LOCATE ANY BURIED UTILITIES OR FACILITIES (AIR LINES, WELLS, ETC.). A WRITTEN REQUEST SHALL BE DELIVERED TO THE CSX REPRESENTATIVE AT LEAST FIVE (5) DAYS IN ADVANCE. THE TRADITIONAL "ONE CALL" UTILITY LOCATE SERVICES ARE NOT RESPONSIBLE FOR LOCATING ANY CSX UNDERGRADE UTILITIES OR FACILITIES. IT IS THE RESPONSIBILITY OF THE CHPE LLC OR ITS CONTRACTOR TO COORDINATE WITH CSXT OR ITS REPRESENTATIVE TO LOCATE ANY UNDERGRADE CSXT UTILITIES OR FACILITIES. 'DIG SAFE' PROCEDURES ARE TO BE FOLLOWED CONSISTENT WITH THE EM&CP NARRATIVE REPORT IN ADDITION TO THE ABOVE CSX UTILITY REQUIREMENTS.

3. INSURANCE:

THE CONTRACTOR SHALL NOT BE PERMITTED TO WORK ON, OR HAVE POTENTIAL TO FOUL, CSX PROPERTY OR RIGHT-OF-WAY UNTIL IT HAS COMPLIED WITH THE FOLLOWING CONDITIONS:

- 3.a. NOTIFY CSX IN WRITING OF THE DATE THAT IT INTENDS TO COMMENCE WORK ON THE PROJECT. SUCH NOTICE MUST BE RECEIVED BY CSX AT LEAST TEN (10) BUSINESS DAYS IN ADVANCE OF THE DATE CHPE LLC OR ITS CONTRACTOR PROPOSES TO BEGIN WORK ON CSX PROPERTY. THE NOTICE MUST REFER TO THIS AGREEMENT BY DATE. IF FLAGGING SERVICE IS REQUIRED, SUCH NOTICE SHALL BE SUBMITTED AT LEAST THIRTY (30) BUSINESS DAYS IN ADVANCE OF THE DATE SCHEDULED TO COMMENCE THE WORK.
- 3.b. OBTAIN AUTHORIZATION FROM THE CSX REPRESENTATIVE TO BEGIN WORK ON CSX PROPERTY. ONCE AUTHORIZATION IS GIVEN, CHPE LLC OR CONTRACTOR SHALL PROVIDE A DETAILED SCHEDULE TO INCLUDE MEANS AND METHODS FOR REVIEW, COMMENT AND/OR APPROVAL PRIOR TO COMMENCEMENT OF WORK. CSX WILL IN TURN PROVIDE DIRECTION REGARDING SPECIFIC CONDITIONS WITH WHICH IT MUST COMPLY.
- 3.c. OBTAIN FROM CSX THE NAMES, ADDRESSES AND TELEPHONE NUMBERS OF CSX'S PERSONNEL WHO MUST RECEIVE NOTICE UNDER PROVISIONS IN THE AGREEMENT. WHERE MORE THAN ONE INDIVIDUAL IS DESIGNATED, THE AREA OF RESPONSIBILITY OF EACH SHALL BE SPECIFIED.
- 4. WORK FOR THE BENEFIT OF THE CONTRACTOR:
- 4.a. UNLESS OTHERWISE AGREED UPON, CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COSTS AND PERMIT REQUIREMENTS FOR RELOCATION OR MODIFICATION OF EXISTING THIRD PARTY FACILITIES AND MAY REQUIRE AN EM&CP CHANGE.
- 4.b. SHOULD CHPE LLC OR CONTRACTOR DESIRE ANY CHANGES IN ADDITION TO THE ABOVE, THEN IT SHALL MAKE SEPARATE ARRANGEMENTS WITH CSX FOR SUCH CHANGES TO BE ACCOMPLISHED AT THE CHPE LLC OR CONTRACTOR'S EXPENSE.
- 5. HAUL ACROSS RAILROAD:
- 5.a. IF CHPE LLC OR CONTRACTOR DESIRES ACCESS ACROSS CSX PROPERTY OR TRACKS AT OTHER THAN AN EXISTING AND OPEN PUBLIC ROAD CROSSING IN OR INCIDENT TO CONSTRUCTION OF THE PROJECT, THE CHPE LLC OR CONTRACTOR MUST FIRST OBTAIN THE PERMISSION OF CSX AND SHALL EXECUTE AN AGREEMENT, WHEREIN CHPE LLC OR CONTRACTOR AGREES TO BEAR ALL COSTS AND LIABILITIES RELATED TO SUCH ACCESS.
- 5.b. TEMPORARY CONSTRUCTION HAUL ROADS ACROSS CSX TRACKS WILL REQUIRE A SEPARATE APPLICATION AND PAYMENT TO CSX PROPERTY SERVICES. AGREEMENT EXTENSIONS REQUIRE ADDITIONAL PAYMENT. ACTUAL COST IS VARIABLE AND PROJECT SPECIFIC.
- 5.c. CHPE LLC AND CONTRACTOR SHALL NOT CROSS CSX'S PROPERTY AND TRACKS WITH VEHICLES OR EQUIPMENT OF ANY KIND OR CHARACTER, EXCEPT AT SUCH CROSSING OR CROSSINGS AS MAY BE PERMITTED PURSUANT TO THIS SECTION.

6. COOPERATION AND DELAYS

- 6.a. CHPE LLC OR CONTRACTOR SHALL ARRANGE A SCHEDULE WITH CSX FOR ACCOMPLISHING STAGE CONSTRUCTION INVOLVING WORK BY CSX. IN ARRANGING ITS SCHEDULE, CHPE LLC OR CONTRACTOR SHALL ASCERTAIN, FROM CSX, THE LEAD TIME REQUIRED FOR ASSEMBLING CREWS AND MATERIALS AND SHALL MAKE DUE ALLOWANCE THEREFORE.
- 6.b. CHPE LLC OR CONTRACTOR MAY NOT CHARGE ANY COSTS OR SUBMIT ANY CLAIMS AGAINST CSX FOR HINDRANCE OR DELAY CAUSE BY RAILROAD TRAFFIC; WORK DONE BY CSX OR OTHER DELAY INCIDENT TO OR NECESSARY FOR SAFE MAINTENANCE OF RAILROAD TRAFFIC; OR FOR ANY DELAYS DUE TO COMPLIANCE WITH THESE SPECIAL PROVISIONS.
- 6.c. CHPE LLC AND CONTRACTOR SHALL COOPERATE WITH OTHERS PARTICIPATING IN THE CONSTRUCTION OF THE PROJECT TO THE END THAT ALL WORK MAY BE CARRIED ON TO THE BEST ADVANTAGE.
- 6.d. CHPE LLC AND CONTRACTOR UNDERSTAND AND AGREE THAT CSX DOES NOT ASSUME ANY RESPONSIBILITY FOR WORK PERFORMED BY OTHERS IN CONNECTION WITH THE PROJECT. CHPE LLC AND CONTRACTOR FURTHER UNDERSTAND AND AGREE THAT THEY SHALL HAVE NO CLAIM WHATSOEVER AGAINST CSX FOR ANY INCONVENIENCE, DELAY OR ADDITIONAL COST INCURRED BY CHPE LLC OR CONTRACTOR ON ACCOUNT OF OPERATIONS BY OTHERS.

7. STORAGE OF MATERIALS AND EQUIPMENT:

7.a. CHPE LLC AND CONTRACTOR SHALL NOT STORE THEIR MATERIALS OR EQUIPMENT ON CSX'S PROPERTY OR WHERE THEY MAY POTENTIALLY INTERFERE WITH CSX'S OPERATIONS, UNLESS CHPE LLC OR CONTRACTOR HAS RECEIVED CSX REPRESENTATIVE'S PRIOR WRITTEN PERMISSION. CHPE LLC AND CONTRACTOR UNDERSTAND AND AGREE THAT CSX WILL NOT BE LIABLE FOR ANY DAMAGE TO SUCH MATERIALS AND EQUIPMENT FROM ANY CAUSE AND THAT CSX MAY MOVE, OR REQUIRE CHPE LLC OR CONTRACTOR TO MOVE, SUCH MATERIAL AND EQUIPMENT AT CHPE LLC'S OR CONTRACTOR'S SOLE EXPENSE. TO MINIMIZE THE POSSIBILITY OF DAMAGE TO THE RAILROAD TRACKS RESULTING FROM THE UNAUTHORIZED USE OF EQUIPMENT, ALL GRADING OR OTHER CONSTRUCTION EQUIPMENT THAT IS LEFT PARKED NEAR THE TRACKS UNATTENDED BY WATCHMEN SHALL BE IMMOBILIZED TO THE EXTENT FEASIBLE SO THAT IT CANNOT BE MOVED BY UNAUTHORIZED PERSONS.

8. CONSTRUCTION PROCEDURES

GENERAL

- 8.a. CONSTRUCTION WORK ON CSX PROPERTY SHALL BE SUBJECT TO CSX'S INSPECTION AND APPROVAL
- 8.b. CONSTRUCTION WORK ON CSX PROPERTY SHALL BE IN ACCORD WITH CSX'S CONSTRUCTION SUBMISSION CRITERIA, LATEST EDITION AND CSX'S WRITTEN OUTLINE OF SPECIFIC CONDITIONS AND WITH THESE SPECIAL PROVISIONS.
- 8.c. CONTRACTOR SHALL OBSERVE THE TERMS AND RULES OF THE CSX SAFE WAY MANUAL, WHICH CHPE LLC AND CONTRACTOR SHALL BE REQUIRED TO OBTAIN FROM CSX, AND IN ACCORD WITH ANY OTHER INSTRUCTIONS FURNISHED BY CSX OF CSX'S REPRESENTATIVE. FAILURE TO COMPLY WITH THE TERMS OF THE AGREEMENT AND CSX RULES CAN RESULT IN MANDATORY RAILROAD WORKER PROTECTIVE TRAINING FOR THE CHPE LLC, CONTRACTOR AND ITS SUBCONTRACTORS.

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- 8.d. CHPE LLC OR CONTRACTOR SHALL OBTAIN CSX REPRESENTATIVE'S AND CHPE LLC REPRESENTATIVES PRIOR WRITTEN APPROVAL FOR USE OF EXPLOSIVES ON OR ADJACENT TO CSX PROPERTY. IF PERMISSION FOR USE OF EXPLOSIVES IS GRANTED, CHPE LLC OR CONTRACTOR MUST COMPLY WITH THE FOLLOWING CODE:
- 8.d.1. BLASTING SHALL BE DONE WITH LIGHT CHARGES UNDER THE DIRECT SUPERVISION OF A RESPONSIBLE OFFICER OR EMPLOYEE OF CHPE LLC OR CONTRACTOR
- 8.d.2. ELECTRIC DETONATING FUSES SHALL NOT BE USED BECAUSE OF THE POSSIBILITY OF PREMATURE EXPLOSIONS RESULTING FROM OPERATION OF TWO—WAY TRAIN RADIOS.
- 8.d.3. NO BLASTING SHALL BE DONE WITHOUT THE PRESENCE OF AN AUTHORIZED REPRESENTATIVE OF CSX. AT LEAST THIRTY (30) DAYS' ADVANCE NOTICE TO CSX REPRESENTATIVES IS REQUIRED TO ARRANGE FOR THE PRESENCE OF AN AUTHORIZED CSX REPRESENTATIVE AND ANY FLAGGING THAT CSX MAY REQUIRE.
- 8.d.4. CHPE LLC OR CONTRACTOR MUST HAVE AT THE PROJECT SITE ADEQUATE EQUIPMENT, LABOR AND MATERIALS, AND ALLOW SUFFICIENT TIME TO (1) CLEAN UP (AT CHPE LLC'S EXPENSE) DEBRIS RESULTING FROM THE BLASTING WITHOUT ANY DELAY TO TRAINS; AND (2) CORRECT (AT CHPE LLC'S EXPENSE) ANY TRACK MISALIGNMENT OR OTHER DAMAGE TO CSX'S PROPERTY RESULTING FROM THE BLASTING, AS DIRECTED BY CSX REPRESENTATIVE, WITHOUT DELAY TO TRAINS. IF CHPE LLC'S OR CONTRACTOR'S ACTIONS RESULT IN DELAY OF ANY TRAINS, INCLUDING AMTRAK PASSENGER TRAINS, CHPE LLC SHALL BEAR THE ENTIRE COST THEREOF.
- 8.d.5. CHPE LLC AND CONTRACTOR SHALL NOT STORE EXPLOSIVES ON CSX PROPERTY.
- 9. CSX REPRESENTATIVE WILL
- 9.a. DETERMINE THE APPROXIMATE LOCATION OF TRAINS AND ADVISE CHPE LLC OR CONTRACTOR OF THE APPROXIMATE AMOUNT OF TIME AVAILABLE FOR THE BLASTING OPERATION AND CLEAN—UP.
- 9.b. HAVE THE AUTHORITY TO ORDER DISCONTINUANCE OF BLASTING IF, IN HIS OR HER OPINION, BLASTING IS TOO HAZARDOUS OR IS NOT IN ACCORD WITH THESE SPECIAL PROVISIONS.

10. ENVIRONMENTAL

- 10.a. SOIL EXCAVATION WITHIN CSX PROPERTY IS ANTICIPATED, AND IF SAID SOILS CANNOT REMAIN ON CSX PROPERTY DURING AND AFTER CONSTRUCTION, THEN CSX ENVIRONMENTAL MUST BE CONTACTED AT LEAST THIRTY (30) DAYS IN ADVANCE OF THE WORK IN ORDER TO SCHEDULE SAMPLING, CLASSIFICATION AND DISPOSITION OF MATERIAL. EXCAVATED MATERIAL IS PROHIBITED FROM BEING REMOVED FROM CSX PROPERTY, OR RIGHTS—OF—WAY, WITHOUT EXPRESSED WRITTEN DIRECTION FROM CSX. SHOULD FINAL DISPOSITION REQUIRE DISPOSAL OF EXCAVATED MATERIAL, CSX SHALL HAVE SOLE DISCRETION OF MEANS AND LOCATION OF SAID DISPOSAL. THE MEANS AND LOCATION OF DISPOSAL SHALL BE IN COMPLIANCE WITH THE EM&CP GUIDELINES, CERTIFICATE REQUIREMENTS, AND BEST MANAGEMENT PRACTICES AS APPROVED BY NYSDPS. CHPE LLC WILL BEAR ALL COSTS ASSOCIATED WITH SAMPLING, STAGING AND SUBSEQUENT DISPOSAL IF DEEMED NECESSARY. CONTRACTOR WILL BE REQUIRED TO OBTAIN ALL DISPOSAL TICKETS / DOCUMENTATION AND PROVIDE THE INFORMATION TO THE CSX REPRESENTATIVE. CSX WILL NOT BEAR ANY COSTS ASSOCIATED WITH THIS WORK.
- 10.b. ANY WASTE MATERIALS GENERATED BY THE PROJECT, INCLUDING BUT NOT LIMITED TO WASHING WITH CLEANING SOLVENTS, BLASTING, SCRAPING, BRUSHING AND PAINTING OPERATIONS, SHALL BE THE RESPONSIBILITY OF THE CHPE LLC OR ITS CONTRACTOR AND SHALL BE CONTAINED, COLLECTED AND PROPERLY DISPOSED OF BY THE CHPE LLC OR ITS CONTRACTOR. CHPE LLC AND ITS CONTRACTOR AGREE TO FULLY COMPLY WITH ALL FEDERAL, STATE, AND LOCAL ENVIRONMENTAL LAWS, REGULATIONS, STATUTES AND ORDINANCES AT ALL TIMES IN ACCORDANCE WITH THIS EM&CP.

11. MAINTENANCE OF DITCHES ADJACENT TO CSX TRACKS

11.a. CHPE LLC OR CONTRACTOR SHALL MAINTAIN ALL DITCHES AND DRAINAGE STRUCTURES FREE OF SILT OR OTHER OBSTRUCTIONS THAT MAY RESULT FROM THEIR OPERATIONS. IN ADDITION, CHPE LLC OR CONTRACTOR SHALL MAINTAIN ALL CSX PROPERTY OR RIGHT—OF—WAY IMPACTED BY PROJECT OPERATIONS INCLUDING BUT NOT LIMITED TO; ACCESS OR HAUL ROADS, STAGING AREAS, PARKING LOTS IN A MANNER THAT PROVIDES CSX FREE AND CLEAR ACCESS TO FACILITIES, MATERIALS WHILE PROVIDING ACCEPTABLE DRIVING SURFACES FREE OF DRAINAGE IMPACTS OR REDUCED CSX CAPACITY. CHPE LLC OR CONTRACTOR SHALL PROVIDE EROSION CONTROL MEASURES DURING CONSTRUCTION AND USE METHODS THAT ACCORD WITH APPLICABLE STATE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, INCLUDING EITHER (1) SILT FENCE; (2) HAY OR STRAW BARRIER; (3) BERM OF TEMPORARY DITCHES; (4) SEDIMENT BASIN; AGGREGATE CHECKS; AND (6) CHANNEL LINING. ALL SUCH MAINTENANCE AND REPAIR OF DAMAGES DUE TO CHPE LLC'S OR CONTRACTORS OPERATIONS SHALL BE PERFORMED AT CHPE LLC'S EXPENSE.

12. TRACK PROTECTION / INSPECTION SERVICE

- 12.a. CSX HAS SOLE AUTHORITY TO DETERMINE THE NEED FOR TRACK PROTECTION REQUIRED TO PROTECT ITS OPERATIONS AND PROPERTY. IN GENERAL, TRACK PROTECTION WILL BE REQUIRED WHENEVER CHPE LLC OR CONTRACTOR OR THEIR EQUIPMENT ARE, OR ARE LIKELY TO BE, WORKING WITHIN FIFTY (50) FEET OF LIVE TRACK OR OTHER TRACK CLEARANCES SPECIFIED BY CSX, OR OVER TRACKS.
- 12.b. CHPE LLC SHALL REIMBURSE CSX DIRECTLY FOR ALL COSTS OF TRACK PROTECTION THAT IS REQUIRED ON ACCOUNT OF CONSTRUCTION WITHIN CSX PROPERTY SHOWN IN THE PLANS, OR THAT IS COVERED BY AN APPROVED PLAN REVISION, SUPPLEMENTAL AGREEMENT OR CHANGE ORDER.
- 12.c. CHPE LLC OR CONTRACTOR SHALL GIVE A MINIMUM OF THIRTY (30) DAYS' ADVANCE NOTICE TO CSX REPRESENTATIVE FOR ANTICIPATED NEED FOR TRACK PROTECTION. NO WORK SHALL BE UNDERTAKEN UNTIL THE FLAG PERSON(S) IS/ARE AT THE JOB SITE. IF IT IS NECESSARY FOR CSX TO ADVERTISE A FLAGGING JOB FOR BID, IT MAY TAKE UP TO NINETY (90) DAYS TO OBTAIN THIS SERVICE AND CSX SHALL NOT BE LIABLE FOR THE COST OF DELAYS ATTRIBUTED TO OBTAINING SUCH SERVICE
- 12.d. CSX SHALL HAVE THE RIGHT TO ASSIGN AN INDIVIDUAL TO THE SITE OF THE PROJECT TO PERFORM INSPECTION SERVICE WHENEVER, IN THE OPINION OF CSX REPRESENTATIVE, SUCH INSPECTION MAY BE NECESSARY. CHPE LLC SHALL REIMBURSE CSX FOR THE COSTS INCURRED BY CSX FOR SUCH INSPECTION SERVICE. INSPECTION SERVICE SHALL NOT RELIEVE CHPE LLC OR CONTRACTOR FROM LIABILITY.
- 12.e. CSX SHALL RENDER INVOICES FOR, AND CHPE LLC SHALL PAY FOR, THE ACTUAL PAY RATE OF THE FLAG PERSON(S) AND INSPECTORS USED, PLUS STANDARD ADDITIVES, WHETHER THAT AMOUNT IS ABOVE OR BELOW THE RATE PROVIDED IN THE ESTIMATE. IF THE RATE OF PAY THAT IS TO BE USED FOR INSPECTOR OR FLAGGING SERVICE IS CHANGED BEFORE THE WORK IS STARTED OR DURING THE PROGRESS OF THE WORK, WHETHER BY LAW OR AGREEMENT BETWEEN CSX AND ITS EMPLOYEES, OR IF THE TAX RATES ON LABOR ARE CHANGED, BILLS WILL BE RENDERED BY CSX AND PAID BY CHPE LLC USING THE NEW RATES AND CONTRACTOR SHALL PERFORM THEIR OPERATIONS THAT REQUIRE TRACK PROTECTION OR INSPECTION SERVICE IN SUCH A MANNER AND SEQUENCE THAT THE COST OF SUCH WILL BE AS ECONOMICAL AS POSSIBLE.

13. UTILITY FACILITIES ON CSX PROPERTY

13.a. CHPE LLC SHALL ARRANGE, UPON APPROVAL FROM CSX, TO HAVE ANY UTILITY FACILITIES ON OR OVER CSX PROPERTY CHANGED AS MAY BE NECESSARY TO PROVIDE CLEARANCES FOR THE PROPOSED FACILITIES.

14. CLEAN-UP

14.a. CHPE LLC OR CONTRACTOR, UPON COMPLETION OF THE PROJECT, SHALL REMOVE AND DISPOSE FROM CSX'S PROPERTY ANY TEMPORARY CONSTRUCTION WORK, ANY TEMPORARY EROSION CONTROL MEASURES USED TO CONTROL DRAINAGE, ALL MACHINERY, EQUIPMENT, SURPLUS MATERIALS, FALSEWORK, RUBBISH, OR TEMPORARY BUILDINGS BELONGING TO CHPE LLC OR CONTRACTOR. CHPE LLC OR CONTRACTOR, UPON COMPLETION OF THE PROJECT, SHALL LEAVE CSX PROPERTY IN KIND OR BETTER CONDITION, SATISFACTORY TO THE CSX REPRESENTATIVE.

15. FAILURE TO COMPLY

15.a. IF CHPE LLC OR CONTRACTOR VIOLATE OR FAIL TO COMPLY WITH ANY OF THE REQUIREMENTS OF THESE SPECIAL PROVISIONS, (A) CSX MAY REQUIRE CHPE LLC AND/OR CONTRACTOR TO VACATE CSX PROPERTY; AND (B) CSX MAY WITHHOLD MONIES DUE CHPE LLC AND/OR CONTRACTOR; (C) CSX MAY REQUIRE CHPE LLC TO WITHHOLD MONIES DUE CONTRACTOR; AND (D) CSX MAY CURE SUCH FAILURE AND THE CHPE LLC SHALL REIMBURSE CSX FOR THE COST OF CURING SUCH FAILURE.



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





DB | APP | DRAWN BY: RB | DESIGNED BY: AC | APPROVED BY: JL | REV. NO.

RB JL

06/19/2023 ISSUED FOR CONSTRUCTION SUBMISSION

SUBMITTAL / REVISION DESCRIPTION

G-003

KIEWIT PROJECT NO.

21162

TT PROJECT NO. 204-3701

DRAWING NO.

-003

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EXIST. ELEC. PEDESTAL/BOX EXIST. ELEC. MARKER POST EXIST. ELEC. GUY ANCHOR/WIRE EXIST. TELE. RISER/BOX EXIST. TELE. MANHOLE EXIST. TELE. HANDHOLE EXIST. TELE. VAULT

EXIST. TELE. PEDESTAL

EXIST. TELE. DOGHOUSE

EXIST. TELE. MARKER POST

EXIST. TELE. JUNCTION BOX

EXIST. TRAFFIC SIGNAL BOX

EXIST. CELL TOWER

EXIST. CABLE BOX

DH

EXISTING MANHOLE UNKNOWN EXISTING UTILITY BOX UNKNOWN EXISTING ANTENNA CAPPED IRON ROD EXISTING CAPPED IRON ROD EXISTING IRON PIPE

_ CONCRETE BOUNDARY EXISTING CONCRETE MONUMENT EXISTING POST

EXISTING REFLECTOR MARKER EXISTING SYMBOL

EXISTING SIGN EXIST. STRUCTURE POST EXIST. STRUCTURE MAILBOX EXIST. GAS LINE EXIST. UNDERGROUND TELE. — — ur — — ur — — ur — — ur — EXIST. FIBER OPTIC EXIST. OVERHEAD TELE. $-\!-\!\operatorname{or}\!-\!\operatorname{or}\!-\!\operatorname{or}\!-\!\operatorname{or}\!-\!\operatorname{or}\!-\!\operatorname{or}\!-\!$ EXIST. UNDERGROUND ELEC. — — UE — — UE — — UE — — UE — EXIST. OVERHEAD ELEC. EXIST. CULVERT — — st — — st — — st — — st — EXIST. SANITARY SEWER ---ss---ss---ss---ss--EXIST. STORM SEWER — — st — — st — — st — — st — EXIST. POTABLE WATER LINE EXIST. FUEL LINE EXIST. RAILROAD TRACK ____ ⊗ CERTIFIED ROUTE MP XX CERTIFIED ROUTE PROVIDED BY CHPE KMZ \otimes RANDALL PREFERRED MP XX RANDALL PREFERRED PROVIDED BY CHPE KMZ -^----EXIST. CONTOUR, INDEX EXIST. CONTOUR, DEPRESSION INDEX EXIST. CONTOUR, INTERMEDIATE EXIST. CONTOUR, DEPRESSION INTERMEDIATE $\times^{139.7}$ EXIST. SPOT ELEVATION

EXIST. DEBRIS EXIST. FIELD LINE EXIST. LANDSCAPE AREA EXIST. PILE EXIST. STORAGE AREA EXIST. NATURAL BOULDER EXIST. NATURAL SHRUB LINE EXIST. NATURAL TREE LINE

 \bigcirc \bigcirc \bigcirc EXIST. NATURAL SINGLE TREE/BUSH EXIST. STRUCTURAL BUILDING EXIST. PAVED DRIVE EXIST. PAVED ROAD EXIST. PAVED SHOULDER EXIST. PAVED SIDEWALK 0 0 0 0 EXIST. GUARDRAIL EXIST. TRAIL EXIST. FENCE EXIST. WALL

EXIST. RETAINING WALL

EXIST. MILEPOST NUMBER

EXIST. GROUND CONTROL

EXIST. MAPPING BOUNDARY

_____ _---

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EXIST. RIGHT-OF-WAY EXIST. ABUTTER **⊕**XX−## EXIST. WETLAND FLAG EXIST. WETLANDS

EXIST. WATERBODY, STREAM, OR STREAM BANK

NOTES:

1. LIMIT OF WORK (LOW) - THE BOUNDARY IN WHICH ALL CONSTRUCTION ACTIVITIES, 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).

PEM - PALUSTRINE EMERGENT PSS - PALUSTRINE SCRUB-SHRUB PFO - PALUSTRINE FORESTED PUB - PALUSTRINE UNCONSOLIDATED BOTTOM L1 - LACUSTRINE LIMNETIC L2 - LACUSTRINE LITTORAL NYSDEC FWW 100-FOOT ADJACENT BUFFER AREA ESTIMATED WETLAND BOUNDARY

FLOODWAY BOUNDARY

0.2% ANNUAL CHANCE FLOODPLAIN BOUNDARY JD BOUNDARY APPROX. USACE FEDERAL CHANNEL BOUNDARY (TYP.)

ESTIMATED AGRICULTURAL LAND BOUNDARY

1% ANNUAL CHANCE FLOODPLAIN BOUNDARY

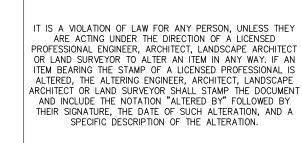
CENTERLINE VEG. CLEARING - TYPE II - MECHANICAL CLEARING CORRUGATED METAL PIPE CMP VEG. CLEARING - TYPE III - MOWING CONCRETE CONC VEG. CLEARING - TYPE IV - MECHANICAL WHOLE-TREE FELLING DB DESIGNED BY PROP. WETLAND PROTECTION FENCE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION DEC PROP. COMPOST FILTER SOCK (OR SILT SOCK) DEG ——FS—— **DEGREES** CHECK DAM DRIVE SURFACE WATER FLOW DEVIATION ZONE **◆**~~ EASTING PROP. TEMPORARY SWALE **ELECTRIC** ELECTRIC CABLE STABILIZED CONSTRUCTION ENTRANCE (TYP.) ELEVATION ELEV PROP. TEMP MAJOR CONTOUR -----140----- EQNAHD STATION EQUATION AHEAD PROP. TEMP MINOR CONTOUR STATION EQUATION BACK **EQNBK** PROP. LIMITS OF WORK/DISTURBANCE **EXIST EXISTING** PROP. LIMITS OF CLEARING/LIMITS OF WORK IN CLEARING AREAS **FIBER** FIBER OPTIC CABLE PROP. CONCRETE WASHOUT FEET FΤ -----PROP. TEMP ACCESS ROAD RTE (EXISTING ROAD OR SURFACE) GAS GAS PIPE PROP. TEMP REFURBISHED ACCESS ROAD HORIZONTAL HDD HORIZONTAL DIRECTIONAL DRILLING PROP. TEMP ACCESS ROAD OR OFF SITE ACCESS ROAD PROP. WETLAND OR AGRICULTURAL LAND* WORKING SURFACE HVDC HIGH-VOLTAGE DIRECT CURRENT TRANSMISSION LINE (SEE SHEET C-613) (*AGRICULTURAL LANDS MAY USE WETLAND INVERT ELEVATION IN۷ WORKING SURFACE OR OTHER APPROVED MITIGATION METHODS) LIMITS OF WORK PROP. MILLING & RESURFACING LT PROP. SPLICE LOCATION MAXIMUM PROP. SPLICE VAULT MINIMUM PROP. LINK BOX HANDHOLE NORTHING PROP. FIBER SPLICE HANDHOLE NUMBER PROP. BORING LOCATION NY XXXXX+XX PROP. ALIGNMENT STATIONING NEW YORK CITY DEPT. OF ENVIRONMENT PROTECTION NYCDEP PROP. ALIGNMENT CENTERLINE NYCDOT NEW YORK CITY DEPT. OF TRANSPORTATION PROP. LAYDOWN YARDS, PARKING, STORAGE & MUSTER AREA NYDPR NEW YORK CITY DEPT. OF PARKS AND RECREATION 1-----PROP. WORK AREAS PACKAGE # PERM PERMANENT 7' FOUL ZONE: NO VEHICLES, MATERIALS, DISTURBANCE, -----PERSONNEL, OR WORK SHALL ENCROACH THE ZONE WITHIN 7FT OF PROP. **PROPOSED** THE NEAREST RAIL WITHOUT CSX COORDINATION AND APPROVAL PVC POLYVINYL CHLORIDE ~~~~ PROP. SHORING/SHEETING PVIPOINT OF VERTICAL INTERSECTION PROP. TEMP EASEMENT RADIUS RCP REINFORCED CONCRETE PIPE PROP. PERM EASEMENT RD ROAD PROP. TEMP ACCESS EASEMENT **REV REVISION** SPLICE LOCATION POLE MARKER RIGHT-OF-WAY RIGHT UNDERGROUND POWER CABLE POLE MARKER UPC PM RTE ROUTE SANITARY SEWER PIPE SEWER PROP. TRANSITION BOX MANHOLE SH SHEET A (-) B (+) DC CABLE IDENTIFICATION TAGS. SEE SHEET C-807 FOR MORE DETAILS ST STREET STA STATION STORM STORM DRAIN PIPE TELECOM TELECOMMUNICATIONS CABLE **TEMPORARY** TEMP THERMAL RESISTIVITY TYP TYPICAL











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CHAMPLAIN HUDSON POWER EXPRESS (PACKAGE 7A) - CSX: CATSKILL GEND & ABBREVIATIONS

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

G-004

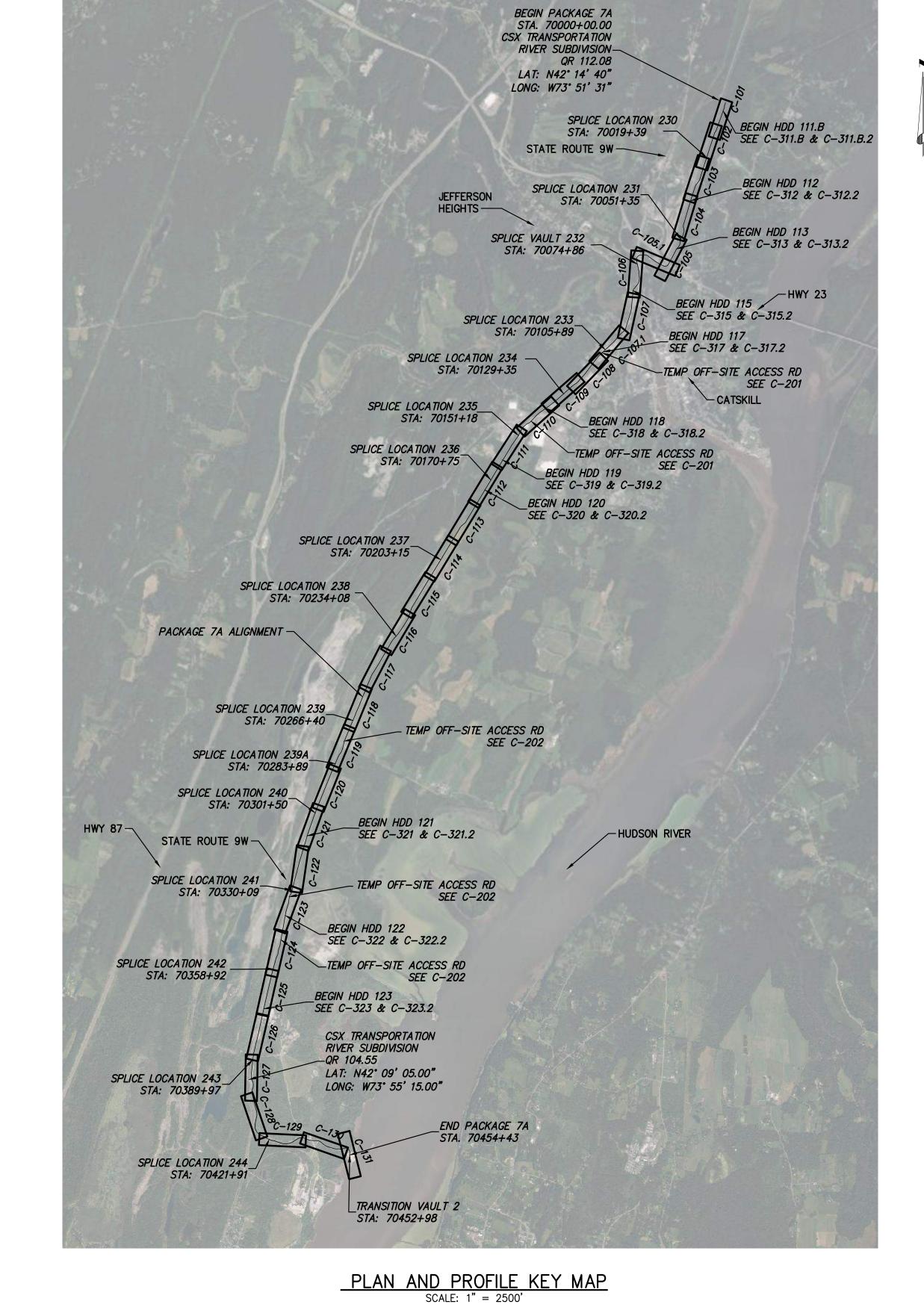
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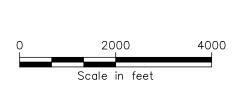
APPROVED

VEG. CLEARING - TYPE I - HAND CUTTING

VERTICAL WATER WATERLINE

AS SHOWN DATE DB | APP | DRAWN BY: RB | DESIGNED BY: AC | APPROVED BY: JL | REV. NO.













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	CHAMPLAIN HUDSON POWER EXPRESS SEGMENT 11 (PACKAGE 7A) - CSX: CATSKILL
	PLAN AND PROFILE
	PLAIN AIND PROFILE
	KEY MAP

DB APP DRAWN BY: RB DESIGNED BY: AC APPROVED BY: JL REV. NO.

RB JL

06/19/2023 ISSUED FOR CONSTRUCTION SUBMISSION

DATE SUBMITTAL / REVISION DESCRIPTION

KIEWIT PROJECT NO. 21162 TT PROJECT NO. 204-3701 DRAWING NO. G-005

			SPLICE LOCATION TABLE			
DESCRIPTION	SHEET	STATION	LAT	LONG	NORTHING	EASTING
SPLICE LOCATION 230	C-102	70019+39	42.23952207	-73.86098615	1241467.8	665151.6
SPLICE LOCATION 231	C-105	70051+35	42.23126701	-73.86457524	1238452.5	664202.2
SPLICE VAULT 232	C-106	70074+86	42.22925888	-73.87014896	1237709.5	662698.2
SPLICE LOCATION 233	C-107.1	70105+89	42.22155711	-73.87347307	1234896.4	661818.6
SPLICE LOCATION 234	C-109	70129+35	42.21695356	-73.87947651	1233207.0	660204.8
SPLICE LOCATION 235	C-111	70151+18	42.21302412	-73.88545123	1231763.4	658596.7
SPLICE LOCATION 236	C-112	70170+75	42.20846939	-73.88927164	1230096.3	657573.7
SPLICE LOCATION 237	C-114	70203+15	42.20098932	-73.89568311	1227358.2	655856.1
SPLICE LOCATION 238	C-116	70234+08	42.19372357	-73.90150266	1224699.6	654298.0
SPLICE LOCATION 239	C-118	70266+40	42.18589818	-73.90701596	1221837.6	652823.9
SPLICE LOCATION 239 A	C-119	70283+89	42.18148902	-73.90949288	1220226.3	652163.7
SPLICE LOCATION 240	C-120	70301+50	42.17702576	-73.91198360	1218595.3	651499.9
SPLICE LOCATION 241	C-122	70330+09	42.16953507	-73.91510501	1215859.9	650672.6
SPLICE LOCATION 242	C-124	70358+92	42.16188059	-73.91764135	1213066.0	650004.1
SPLICE LOCATION 243	C-127	70389+97	42.15358558	-73.92024477	1210038.6	649318.8
SPLICE LOCATION 244	C-129	70421+91	42.14565391	-73.91827003	1207152.1	649874.0
TV-2 (CEMENTON)	C-131	70452+97	42.14422871	-73.90793293	1206652.0	652680.7

		FI	BER SPLICE HANDHOLE TABL	.E		
DESCRIPTION	SHEET	STATION	LAT	LONG	NORTHING	EASTING
FIBER HANDHOLE 230	C-102	70018+78	42.23967990	-73.86091601	1241525.5	665170.2
FIBER HANDHOLE 231	C-105	70050+75	42.23143034	-73.86453378	1238512.1	664213.0
FIBER HANDHOLE 233	C-107.1	70105+28	42.22166950	-73.87330828	1234937.7	661862.9
FIBER HANDHOLE 234	C-110	70128+75	42.21706266	-73.87930782	1233247.1	660250.2
FIBER HANDHOLE 235	C-111	70150+58	42.21317203	-73.88534921	1231817.5	658624.0
FIBER HANDHOLE 236	C-112	70170+15	42.20861174	-73.88915620	1230148.4	657604.6
FIBER HANDHOLE 237	C-114	70202+55	42.20113083	-73.89556583	1227410.0	655887.5
FIBER HANDHOLE 238	C-116	70233+47	42.19384730	-73.90135339	1224744.9	654338.1
FIBER HANDHOLE 239	C-118	70265+80	42.18605076	-73.90692724	1221893.4	652847.5
FIBER HANDHOLE 239 A	C-118	70283+28	42.18164078	-73.90940179	1220281.8	652188.1
FIBER HANDHOLE 240	C-120	70300+89	42.17717971	-73.91189940	1218651.5	651522.4
FIBER HANDHOLE 241	C-122	70329+49	42.16969547	-73.91504643	1215918.5	650688.1
FIBER HANDHOLE 242	C-125	70358+31	42.16204063	-73.91758100	1213124.5	650020.1
FIBER HANDHOLE 243	C-127	70389+36	42.15375054	-73.92021757	1210098.8	649325.8
FIBER HANDHOLE 244	C-129	70421+31	42.14571882	-73.91847566	1207175.3	649818.0

			LINK BOX HANDHOLE TABLE			
DESCRIPTION	SHEET	STATION	LAT	LONG	NORTHING	EASTING
LINK BOX HANDHOLE 230	C-102	70019+40	42.23950849	-73.86094412	1241463.0	665163.0
LINK BOX HANDHOLE 235	C-111	70151+20	42.21300581	-73.88541267	1231756.8	658607.2
LINK BOX HANDHOLE 239	C-118	70266+42	42.18588115	-73.90697536	1221831.5	652834.9
LINK BOX HANDHOLE 243	C-127	70389+98	42.15358650	-73.92029047	1210038.9	649306.4

CO- SEALING NOTE: THE ELECTRICAL ENGINEER OF RECORD IS SEALING FOR THE ELECTRICAL DESIGN AND ACCEPTABILITY OF THE LOCATIONS OF ELECTRICAL APPERTUNANCES DEPICTED ON THIS PLAN SHEET. THE CIVIL ENGINEER OF RECORD IS SEALING FOR THE ACCURACY OF THE LOCATIONS OF ELECTRICAL APPURTENANCES DEPICTED ON THIS PLAN SHEET.









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

CHAMPLAIN HUDSON POWER EXPRESS SEGMENT 11 (PACKAGE 7A) - CSX: CATSKILL SPLICE LOCATION, FIBER HANDHOLE AND

LINK BOX HANDHOLE TABLES

TT PROJECT NO. 204-3701 DRAWING NO.

KIEWIT PROJECT NO. 21162

G-006

DRAWN BY: RB DESIGNED BY: AC APPROVED BY: JL REV. NO. AS SHOWN DATE

Tonio	Ozatian of EMOOD		
Topic	Section of EM&CP		
Cable Installation Requirements	4.2		
Horizontal Directional Drilling	4.3		
Installation and Performance Controls	4.3.1		
Buildings and Structures within 100-ft of HDD	4.3.2		
Inadvertant Release Contingency Plan and Drilling Fluid Management	4.3.3, Appendix J		
Road Crossing Methods	4.3.4		
Trenching	4.4		
Trenching in Agricultural Lands	4.4.1		
Trenching in Roadways	4.4.2		
Trenching in Wetlands	4.4.3		
Length of Open Trench	4.4.4		
Splicing and Jointing	4.4.5		
Dewatering Methods	4.4.6		
Bedding and Backfilling Methods	4.4.7		
Dredging	Note Applicable for this Segment		
Converter Station and Substation Requirements	Note Applicable for this Segment		
Right of Ways and Easements	4.7		
Right of Way Clearing	4.8 (See also Section 8)		
Building and Structure Removal	4.9		
Access Roads	4.10		
Driveway Access During Construction	4.10.1		
Access Through Wetlands or Streams	4.10.2		
Access Through Agricultural Lands	4.10.3		
Drain Lines and Under Drains Within Agricultural Lands	4.10.4		
Soil Management Plan	4.11 and Appendix L		
Culvert Replacement	4.12		
Blasting	4.13		
Inadvertent Damage to Utilities	4.14		

Note: Table 4 summarizes the construction methods and associated subsections that summarize the measures and standards that will be followed within Segment 11.

		Table 4.1 - Segm	ent 11 HDD Locations	
HDD Number	Sheet	Length (linear feet)	Station (Approximate - see Drawings for Details)	Purpose
HDD 111.B	C-101	765	STA 70002+15 to 70009+80	Pond
HDD 112	C-103 to C-104	960	STA 70036+25 to 70045+85	Avoid road crossing and wetland
HDD 113	C-105	610	STA 70055+20 to 70061+30	Avoid railroad and road crossing
HDD 115	C-106 to C-107	1,362	STA 70085+15 to 70098+77	Avoid road crossing and waterbody
HDD 117	C-107.01 to C-108	790	STA 70113+70 to 70121+60	Railroad crossing
HDD 118	C-110	860	STA 70137+20 to 70145+80	Avoid road crossing
HDD 119	C-111 to C-112	840	STA 70160+25 to 70168+65	Avoid waterbody and wetlands
HDD 120	C-112 to C-113	1,470	STA 70172+35 to 70187+05	Avoid waterbody and wetlands
HDD 121	C-121 to C-122	1,740	STA 70311+00 to 70328+40	Avoid wetland and waterbodies and road crossing
HDD 122	C-123 to C-124	1,100	STA 70339+60 to 70350+40	Avoid railroad crossing
HDD 123	C-125 to C-126	850	STA 70372+00 to 70380+50	Avoid Glen Falls Lehigh Cement Co. facility

	Table 4.2 - Property Owner	s within 100 feet of HDD	Operations
HDD#	Parcel Number	Sheet	Location (Approximate – see Drawings for Details)
HDD 111.B	139.00-10-10.1	C-101	STA 70001+57 to 70009+80
HDD 111.B	139.00-10-11	C-101	STA 70001+57 to 70009+80
HDD 112	156.01-4-6	C-103 to C-104	STA 70035+50 to 70045+04
HDD 113	156.10-1-4	C-105	STA 70054+40 to 70060+50
HDD 113	156.10-1-28	C-105	STA 70054+40 to 70060+50
HDD 113	156.09-6-1	C-105	STA 70054+40 to 70060+50
HDD 113	156.09-6-3	C-105	STA 70054+40 to 70060+50
HDD 113	156.01-3-15	C-105	STA 70054+40 to 70060+50
HDD 113	156.09-5-13	C-105	STA 70054+40 to 70060+50
HDD 115	156.13-2-16	C-106 to C-107	STA 70085+34 to 70098+95
HDD 115	156.13-1-6	C-106 to C-107	STA 70085+34 to 70098+95
HDD 115	156.13-1-7	C-106 to C-107	STA 70085+34 to 70098+95
HDD 115	156.13-1-8.1	C-106 to C-107	STA 70084+00 to 70098+75
HDD 115	156.13-1-8.2	C-106 to C-107	STA 70084+00 to 70098+75
HDD 115	156.13-1-9	C-106 to C-107	STA 70084+00 to 70098+75
HDD 115	156.13-1-10	C-106 to C-107	STA 70084+00 to 70098+75
HDD 115	156.13-9-13	C-106 to C-107	STA 70084+00 to 70098+75
HDD 115	156.13-9-12	C-106 to C-107	STA 70084+00 to 70098+75
HDD 115	156.13-9-10	C-106 to C-107	STA 70084+00 to 70098+75
HDD 115	156.13-9-11	C-106 to C-107	STA 70084+00 to 70098+75
HDD 115	156.13-10-16	C-106 to C-107	STA 70084+00 to 70098+75
HDD 115	156.13-10-37	C-106 to C-107	STA 70084+00 to 70098+75
HDD 115	156.13-10-38	C-106 to C-107	STA 70084+00 to 70098+75
HDD 115	156.13-10-21	C-106 to C-107	STA 70084+00 to 70098+75
HDD 115	156.13-10-20	C-106 to C-107	STA 70084+00 to 70098+75
HDD 115	156.13-10-19	C-106 to C-107	STA 70084+00 to 70098+75
HDD 117	155.20-1-40	C-107.01 to C-108	STA 70112+29 to 70120+03
HDD 117	156.17-5-35	C-107.01 to C-108	STA 70112+29 to 70120+03
HDD 117	155.20-2-7.1	C-107.01 to C-108	STA 70112+29 to 70120+03
HDD 117	155.20-2-6	C-107.01 to C-108	STA 70112+29 to 70120+03
HDD 118	171.08-2-1.1	C-110	STA 70137+29 to 70146+17
HDD 118	171.08-1-9	C-110	STA 70137+29 to 70146+17
HDD 118	171.08-9-5	C-110	STA 70137+29 to 70146+17
HDD 118	171.08-9-7	C-110	STA 70137+29 to 70146+17
HDD 118	171.08-9-6	C-110	STA 70137+29 to 70146+17
HDD 118	171.08-9-4	C-110	STA 70137+29 to 70146+17
HDD 118	171.08-9-15	C-110	STA 70137+29 to 70146+17
HDD 118	171.08-9-1	C-110	STA 70137+29 to 70146+17
HDD 118	171.08-7-5	C-110	STA 70137+29 to 70146+17
HDD 118	171.08-7-1	C-110	STA 70137+29 to 70146+17
HDD 119	171.00-4-4	C-111 to C-112	STA 70160+25 to 70168+92
HDD 119	171.00-4-3	C-111 to C-112	STA 70160+25 to 70168+92
HDD 119	171.00-4-46	C-111 to C-112	STA 70160+25 to 70168+92
HDD 120	202.00-1-1.1	C-112 to C-113	STA 70172+35 to 70187+19
HDD 120	202.00-1-1.2	C-112 to C-113	STA 70172+35 to 70187+19
HDD 120	213.00-2-3	C-112 to C-113	STA 70172+35 to 70187+19
HDD 121	187.00-1-5	C-121 to C-122	STA 70311+00 to 70328+25
HDD 121	202.00-1-1.1	C-121 to C-122	STA 70311+00 to 70328+25
HDD 122	187.00-1-5	C-123 to C-124	STA 70338+27 to 70349+57
HDD 122	213.00-2-3	C-123 to C-124	STA 70338+27 to 70349+57
HDD 122	201.00-5-5	C-123 to C-124	STA 70338+27 to 70349+57
HDD 123	213.00-2-3	C-125 to C-126	STA 70370+90 to 70379+50

	Table 4.4 - Certificate Condition 140 for Segment 11								
Town	Town Parcel Number Station Station End Owner Type Type of Easemer								
Catskill	Catskill 156.13-10-38 70099+50 70099+56 Private Permanent								

Type of Access Road	Sheet	Location (Approximate – see Drawings for Details)	Sensitive Area Crossed
7A-01-RD	C-105	70059+00	Wetland
7A-02-RTE	C-107.01	70110+00	None
7A-03-RTE	C-110	70137+00	None
7A-04-RTE	C-110, C-111	70144+00 to 70150+00	None
7A-05-RTE	C-114	70209+50	Wetland
7A-06-RD	C-118	70258+00	Wetland
7A-07-RTE	C-119	70277+00	Wetland, stream
7A-08-RD	C-123	70336+00	Agricultural land
7A-09-RTE	C-124	70348+00	None
7A-10-RD	C-126	70381+50	Railroad
7A-11-RTE	C-127	70397+50	None
7A-12-RD	C-127, C-128	70404+00 to 70405+00	None
7A-13-RD	C-128	70408+00	None
7A-14-RTE	C-130, C-131	70440+00 to 70451+00	Wetland
environmentally:	sensitive areas an	roads in this package and their as ad agricultural lands if applicable. Still be followed for the construction	Section 4.8 of the EM&CP

Table 5.2 - Construction	n Materials and	d Equipment Staging
Work Area Description	Sheet #	Location (Approximate- see Drawings for Details)
HDD 111.B Entry Work Area	C-101	STA 70001+57
HDD 111.B Exit Work Area	C-101	STA 70009+80
HDD 112 Entry Work Area	C-103	STA 70035+50
HDD 112 Exit Work Area	C-104	STA 70045+04
HDD 113 Entry Work Area	C-105	STA 70054+40
HDD 113 Exit Work Area	C-105	STA 70060+50
HDD 115 Entry Work Area	C-106	STA 70085+34
HDD 115 Exit Work Area	C-107	STA 70098+95
HDD 117 Entry Work Area	C-107.1	STA 70112+29
HDD 117 Exit Work Area	C-108	STA 70120+03
HDD 118 Entry Work Area	C-110	STA 70137+29
HDD 118 Exit Work Area	C-110	STA 70146+17
HDD 119 Entry Work Area	C-111	STA 70160+25
HDD 119 Exit Work Area	C-112	STA 70168+92
HDD 120 Entry Work Area	C-112	STA 70172+35
HDD 120 Exit Work Area	C-113	STA 70187+19
HDD 121 Entry Work Area	C-121	STA 70311+00
HDD 121 Exit Work Area	C-122	STA 70328+25
HDD 122 Entry Work Area	C-123	STA 70338+27
HDD 122 Exit Work Area	C-124	STA 70349+57
HDD 123 Entry Work Area	C-125	STA 70370+90
HDD 123 Exit Work Area	C-126	STA 70379+50

		Table 7.1 - Agricultural Land ir	Segment 11
Parcel Number	Sheet Number	Location (Approximate – see Drawings for Details)	Anticipated Impacts to Agricultural Activities/Land
171.00-4-49	C-113, C-114	STA 70187+00 to 70202+40	The trench construction will only impact the edge of the agricultural field. The Agricultural Trench Detail on Sheet C-621 will be utilized. Splice location 237 will remain outside of the agricultural field. The HDD work area will utilize all BMPs outlined in Section 7.1 and restoration requirements in Section 14.5 will be followed.

Note: Section 7.1 of the EM&CP summarizes the measures to be followed within agricultural areas. Section 8.2.2 of the EM&CP summarizes the requirements and procedures for any vegetation or tree clearing that may occur within agricultural lands. Table 14.1 in Section 14.5 of the EM&CP summarizes the location where agricultural lands potentially require restoration within Segment 12. Section 14.5 of the EM&CP and describes all cleanup and restoration procedures and methods that will be followed to restore agricultural lands.

		Table 7.2 – Recre	ational Areas	
Recreational Area	Parcel Number	Plan and Profile (Appendix C) Sheet Number	Station (approximate – see Appendix C for details)	Anticipated Impacts to Recreational Area
Catskill SoccerClub, Inc. Holcim Field	187.00-2-8.2	C-118 to C-119	STA 70266+50 to 70276+50	A temporary work area and temporary access will be the only impact to the recreational area and will be graveled or use timber matting. All trenching and splice location 181 will remain outside of the recreation area or as close to the edge of the field as possible. Any grading will follow all BMPs outlined in Section 7.2 and restoration requirements in Section 14.2 will be followed.







(A NEW YORK PROFESSIONAL CORPORATION)

FOR INFORMATION SEE THE ENVIRONMENTAL MANAGEMENT AND CONSTRUCTION PLAN NARRATIVE.

			CHAMPLAIN HUDSON POWER EXPRES
			SEGMENT 11 (PACKAGE 7A) - CSX: CATSKILL
			,
			EM&CP DATA TABLES-SHEET 1 OF 3
_	+	+	 4

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

G-010

AS SHOWN DATE 06/19/2023

0 06/19/2023 ISSUED FOR CONSTRUCTION SUBMISSION RB JL

No. DATE SUBMITTAL / REVISION DESCRIPTION

DB APP DRAWN BY: RB DESIGNED BY: AC APPROVED BY: JL REV. NO.

	Table	e 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.
Type 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 ten (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.

Note: Table 8.4.1 summarizes the location and clearing Type that will occur within this Package. Section 8.0 and 8.1 of the EM&CP summarizes the clearing methods and procedures for vegetation and tree clearing and removal including standards and specifications for clearing in environmentally sensitive areas.

- Wetlands: Section 8.2.1 and Section 9.1 of the EM&CP
- Stream Crossing: Section 8.2.1 and Section 9.1 of the EM&CP.
- Visually Sensitive Areas Section 8.3.2 of the EM&CP Agricultural Lands: Section 8.2.2 of the EM&CP.

	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 right-of-way to an approved disposal site.					
Type B	Log Piles	Logs not needed for construction will be removed from the right-of-way to an approved disposal area.					
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 right-of-way or transported off right-of-way to an approved disposal site. 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 may be chipped to reduce debris volume.					
Type F	Vegetation Hauling	Vegetation and stumps may be hauled to a NYSDEC approved landfill 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 right-of-way 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 re-established 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 occurs will be noted on as-built drawings, and monitored for settling during ROW condition surveys and maintenance activities.					

Note: Section 8.4 of the EM&CP summarizes the tree and vegetation disposal procedures for this Segment. No burning of any vegetative or tree debris is permitted within the work areas of this Segment. All applicable NYSDEC regulations regarding invasive species will be followed when disposing of vegetation.

	Table 8.4 - Vegetation and Tree Clearing Locations						
Sheet	Location (Approximate - See Drawings for Details)	Vegetation/Tree Clearing Method Type	Environmentally Sensitive Areas				
C-401	70000 to 70013	I and IV	Wetland; Stream; ESA 9				
C-402	70013 to 70021	I and III	Wetland; Stream; ESA 9				
C-403	70021 to 70036	I, III and IV	Wetland; Stream; ESA 9				
C-404	70044 to 70050	IV	Wetland; Stream; ESA 9				
C-405	70050 to 70061	I, III and IV	Wetland; Stream; ESA 9				
C-405.1	70061 to 70071	II and III	ESA 9				
C-406	70074 to 70085	III and IV	ESA 9				
C-407	70100 to 70101	IV	ESA 9; Stream				
0.407.4	70101 to 70108	IV	FCAO				
C-407.1	70110 to 70114	IV	ESA 9				
C-408	70119 to 70125	IV	ESA 9				
C-409	70125 to 70135	IV	ESA 9; Stream				
C 440	70135 to 70138	IV	ECA O				
C-410	70147 to 70150	IV	ESA 9				
C-411	70150 to 70165	I and IV	Wetland; ESA 9				
C-412	70165 to 70173	IV	ESA 9				
C-413	70186 to 70195	I	Wetland; ESA 9; Ag Land				
C-414	70195 to 70210	I and III	Ag Land; Wetland; ESA 9				
C-415	70210 to 70225	I and IV	Wetland; Recreational Land; ESA 9				
C-416	70225 to 70240	IV	Recreational Land; ESA 9				
C-417	70225 to 70255	IV	Wetland; ESA 9				
C-418	70255 to 70270	IV	ESA 9				
C-419	70270 to 70285	I and IV	ESA 9				

Wetland; ESA	I	70285 to 70300	C-420
Wetland; ESA	I	70300 to 70312	C-421
Wetland	I	70328 to 70329	C-422
	I	70329 to 70330	
Wetland	I and III	70332 to 70334	C-423
	I and IV	70335 to 70339	
Wetland	I and IV	70348 to 70360	C-424
Wetland	I, III, and IV	70360 to 70372	C-425
Wetland	III	70378 to 70381	C 406
vveiland	III and IV	70384 to 70391	C-426
Wetland	III	70391 to 70392	C-427
vveiland	III and IV	70398 to 70405	C-421
	I and IV	70405 to 70420	C-428
	I	70420 to 70421	
	I and IV	70424 to 70429	C-429
Wetland	I and IV	70430 to 70435	
vveuand	I, III, and IV	70435 to 70450	C-430
Wetland	I and IV	70450 to 70453	C-431

Approximate Station	Waterbody Name	NYSDEC Classification	Waterbody Field ID	Flow Status	Avoidance and Minimization Measure	Temporary Impact (Linear feet)	Temporary Impact (Square fee
70009+00 (C-101)	Unnamed Tributary to Hudson River	Unmapped	S51	Intermittent	-	0	0
70009+50 (C-101)	Unnamed Tributary to Hudson River	Unmapped	S52	Intermittent		125	1,289
70033+00 (C-103)	Unnamed Tributary to Hudson River	C/C	TG 863-103	Intermittent		0	0
70033+00 (C-103)	Unnamed Tributary to Hudson River	C/C	FA-S-TC 863-103	Intermittent		69	0
70037+25	Unnamed Tributary to Hudson River	C/C	38 863-103	Perennial	HDD	0	0
70049+00 (C-104)	Unnamed Tributary to Hudson River	C/C	GP7A-S3 863-103	Intermittent	HDD	15	0
70050+00 (C-105)	Unnamed Tributary to Hudson River	C/C	39	Intermittent		0	0
70092+00 (C-107)	Catskill Creek	C/C	Catskill Creek 863-94	Perennial	HDD	0	0
70095+00 (C-107)	Catskill Creek	C/C	Catskill Creek 863-94	Perennial	HDD	0	0
70133+00 (C-109)	Unnamed Tributary to Hudson River	Unmapped	41	Perennial	Temporary culvert	194	1,933
70134+00 (C-109)	Unnamed Tributary to Hudson River	Unmapped	41A	Perennial		0	0
70155+00 (C-111)	Unnamed Tributary to Hudson River	C/C	42 863-1	Perennial	Partially avoided via HDD	170	1,028
70166+00 (C-112)	Unnamed Tributary to Hudson River	Unmapped	DPS-S8	Intermittent	HDD + temporary culvert	0	0
70176+25 (C-112)	Unnamed Tributary to Hudson River	Unmapped	DPS-S9	Intermittent	HDD	0	0
70183+25 (C-113)	Unnamed Tributary to Hudson River	Unmapped	DPS-S10	Intermittent	HDD	0	0
70219+50 (C-115)	Unnamed Tributary to Hudson River Unnamed	Unmapped	DPS-S6	Intermittent	HDD	0	0
70223+50 (C-115)	Tributary to Hudson River Unnamed	Unmapped	43	Intermittent		104	1,140
70229+00 (C-116)	Tributary to Hudson River Unnamed	Unmapped	FA-S-TA	Intermittent		0	0
70246+50 (C-117)	Tributary to Hudson River Unnamed	Unmapped	44	Perennial		115	675
70256+00 (C-118)	Tributary to Hudson River Unnamed	Unmapped	DPS-S5	Intermittent		96	503
70261+25 (C-118)	Tributary to Hudson River	C/C	45 46 (Post	Intermittent		108	668
70280+00 (C-119)	Post Creek Unnamed	C/C	Creek) 863-1	Perennial		143	1,617
70283+00 (C-119)	Tributary to Hudson River Unnamed	Unmapped	47A	Intermittent		283	283
70306+00 (C-121)	Tributary to Hudson River Unnamed	Unmapped	48	Intermittent		301	301
70325+00 (C-122)	Tributary to Hudson River	Unmapped	49	Perennial	HDD	3	3
70360+75 (C-124)	Unnamed Tributary to Hudson River	Unmapped	DPS-S3	Intermittent		15	0
70400+50 (C-127)	Unnamed Tributary to Hudson River	Unmapped	DPS-S1	Intermittent		59	0
70404+50 (C-127)	Unnamed Tributary to Hudson River	Unmapped	DPS-S2	Intermittent		102	102

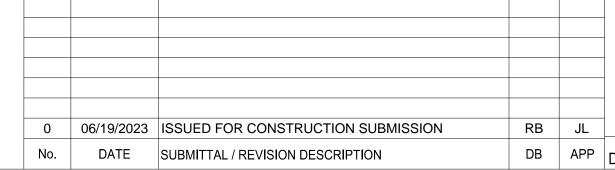
Drawing Sheet Number and Approximate Station	Wetland ID	Wetland Community Type	Jurisdiction	Permanent ROW Impacts (square feet)	Temporary Construct Impacts (square fee
		PEM		0	0
70008+00 (C-101)	7A-W	PFO	USACE	244	15,623
		PEM		0	22,031
70011+00 (C-101-103)	FA-AP, AO, AN	PSS	USACE	0	55,016
70011+00 (0-101-103)	TA-AF, AO, AN		USACE		·
		PFO		3,304	28,043
		PEM		0	0
70032+00 (C-103-104)	AC	PFO	USACE	2,573	27,388
		PUB		0	0
70058+00 (C-105)	ВС	PEM	USACE	0	0
	ВО	PSS	CONCE	0	0
70059+00	FA-6N	PEM	USACE	0	249
70059+00	ra-on	PEIVI	USACE	0	13,082
70060+50 (C-105)	GN	PEM	USACE	0	0
70061+00 (C-105)	M-1	PEM	USACE	0	0
70061+25 (C-105)	GQ	PFO	USACE	0	22,346
70160+50 (C-111)	CC	PSS	USACE	0	0
70162+00 (C-111)					
70162+00 (C-111)	GO	PFO	USACE	0	1,020
70186+00 (C-113)	DC	PEM	USACE	0	395
. ,		PFO		0	98,787
70204+00 (C-114)	EC	PEM	USACE	0	0
70209+00 (C-114)	GD	PEM	USACE	0	11,810
70227+00 (C-116)	FA-TD	PSS	USACE	0	78,972
		PSS		3,924	44,507
70232+00 (C-116-118)	FC/FA-FC	PFO	USACE	0	0
70258+00 (C-118)	GR	PEM	USACE	0	0
70278+00 (C-119-120)	TB/FA-TB	PSS	USACE	0	8,641
		PEM		0	27,258
70280+00 (C-119-121)	GC	PSS	USACE	0	6,714
		PFO		0	155
70200100 (0.400.404)	TO/E 4 TO	PEM	110405	0	72
70289+00 (C-120-121)	TC/FA-TC	PFO	USACE	0	15,842
70307+50 (C-121)	HC	PEM	USACE	0	4
70319+00 (C-122)	TF	PFO	USACE	0	388
70323+00 (C-122)	IC	PEM	USACE	0	23,130
70335+00 (C-123)				0	15,853
70333+00 (C-123)	JC	PEM	USACE		
70346+00 (C-124-125)	KC	PEM	USACE	1,126	10,162
		PFO		1,126	10,163
70348+00 (C-124)	G-P7-13	PFO	USACE	1,038	19,918
70388+00 (C-126-127)	1.0	PEM	USACE	0	0
, 0000100 (0-120-121)	LC	PFO		0	0
70393+00 (C-127)	MC	PEM	USACE	0	2,214
70399+00 (C-127)	O-1	PSS	USACE	0	0
(/		PEM	USACE	0	729
70435+00 (C-129-130)	P-1	PSS	JUAGE	0	0
		PEM	USACE	0	1,817
70438+50 (C-130)	Е	100-ft Regulated Adjacent Area	NYSDEC (HS-101)		11,702
70449+00 (C-130-131)	7A-Y	PSS	USACE	0	0
	173.1		NYSDEC (C-23)		
		PEM	USACE	0	7,316
		PSS1R	NYSDEC (C-23)	0	0
70450+00 (C-130-131)	7A-Z	PFO1R		0	0
(= 32 - 2.)		100-ft			
		Regulated Adjacent Area		0	47,718
	Pond		USACE	0	0
	TOTAL			12,209	576,925
	Subtotal PE	M		(0.3 acre)	(13.2 acres) 211,256 (4.8 acres)
	Subtotal PF0			12,209	(4.8 acres) 152,827
				(0.3 acre)	(3.5 acres) 212,843
	Subtotal PS	S		0	(4.9 acres)
	Subtotal PUI	 B		0	0
					Clean Water Act.







FOR INFORMATION SEE THE ENVIRONMENTAL MANAGEMENT AND CONSTRUCTION PLAN NARRATIVE.



CHAMPLAIN HUDSON POWER EXPRESS SEGMENT 11 (PACKAGE 7A) - CSX: CATSKILL EM&CP DATA TABLES-SHEET 2 OF 3

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

G-011

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

DB APP DRAWN BY: RB DESIGNED BY: AC APPROVED BY: JL SCALE REV. NO.

	Table 9.3 - FEMA 100-Year Flood	plains in Segment 11
Sheet Number	Station (Approximate – see Drawings for details)	Flood Zone
C-107	STA 70087+00 to 70101+50	Zone AE; Regulatory Floodway
C-130 to C-131	STA 70447+00 to 70455+56	Zone AE

	Table 9.4 - Summary of RTE Species Impact Avoidance and Minimization Measures				
ESA Type	Station Start	Station End	Best Management Practices		
ESA 1	70431	70454	(a) The Certificate Holders will complete all construction and site preparation activities within six hundred and sixty (660) feet of an active nest between October 1 and Decmeber31, outside of the breeding season to avoid noise-related disturbance.		
ESA 4	70000	70454	 (a) Conduct tree clearing between October 31 and March 31. Tree clearing is not allowed between April 1 and October 30. (b) During the preconstruction survey, the contractors would identify large live or dead trees with peeling bark, including large specimens of shagbark hickory (Carya ovata), with the potential to serve as 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. 		
ESA 9	70000	70454	 (a) Conduct tree clearing between October 31 and March 31. Tree clearing is not allowed between April 1 and October 30. (b) During the preconstruction survey, the contractors would identify large live or dead trees with peeling bark, including large specimens of shagbark hickory (Carya ovata), with the potential to serve as 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. 		

The Table above summarize the locations, avoidance, minimization measures, and impacts for the federally listed species and state-listed species that may occur on or within the vicinity of this Segment. Appendix T and Section 9.3 of the EM&CP summarizes the habitat descriptions, mitigation and protection measures for threatened and endangered species; rare, threatened and endangered plants; and significant natural communities.

	Table 11.1 - Segm	nent 11 Cultural Resources	
Cultural Resource Name	Location	Impact	Protection Measure
Site 904.000089 Greene County Waste Parcel 1	East of RR ROW.	Cable route.	Test or Monitor.
Site 03904.000090 Greene County Waste Parcel 2	East of RR ROW.	Cable route.	Test or Monitor.
NYSM Site 3397	Within Project along both side of Catskill Creek.	Cable installation, HDD pits and work areas, splice locations and work areas, and temporary access roads.	Mostly previously disturbed. None.
Site 03940.001143 Willow Site	West of RR ROW.	Cable route.	Previously determined not eligible. None.
Site 03940.001156 LBD Precontact Site	Southeast of RR ROW.	Cable route.	Site developed. None.
Site 03904.000033 Burget Foundation Site 13	On west side of RR ROW.	Near cable route.	None.
Site 03904.000034 Sax Foundation Site 14	On west side of RR ROW	Near cable route.	None.
Site 03904.000035 Rightmeyer Foundation Site 15	On west side of RR ROW.	Near cable route, and splice turnaround.	Test or Monitor.
Site 03904.000036 Burhan or Acker Foundation Site 17	On west side of RR.	Near cable route.	None.
NYSM 475 Streeke Shelter	West side of tracks, no additional information.	Near cable route.	Test or Monitor.
Site 03904.000037 C.A. Post Foundation Site 20	On west side of RR ROW.	Near cable route.	None.
Site 03904.000030 Embought Rd. Site, Site 8 (Precontact)	On east side of RR ROW.	Near cable route.	Test or Monitor.
Site 03904.000093 ICC Prehistoric Site 1	East of extant access road, Project activities on west side.	Near cable route.	None.
Site 03904.000094 ICC Prehistoric Site 2	East of cable route.	Near cable route.	Test or Monitor.
Site 03904.000042 Martin House Foundation & Barn, Site 32	East of RR ROW.	Near cable route.	None.
Site 03904.000043 Gardiner Cemetery (Site 33)	East of Rte 9W, west of RR ROW.	Along proposed access road.	Site protection measures: additiona fencing, signage, and call-outs on construction sheets.

Table 12.2 – NYSDOT Coordination Summary				
Coordinating Parties	Coordinating Parties Description			
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.	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.	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.	Bi-weekly.		

Jurisdiction	Road Crossing	Crossing Method (HDD or Open Trench)	Sheet	Location (Approximate, see Drawings for Details)
Local	Browns Crossing Road	Trench	C-103	STA 70029
NYSDOT	State Route 23	HDD 113	C-105	STA 70060
Local	Allen Street	Trench	C-105.1	STA 70068 to 70069
NYSDOT	Maple Ave (9W)	Trench	C-106	STA 70071 to 70073
NYSDOT	Route 9W On-ramp	Trench	C-106	STA 70073
NYSDOT	Route 9W Off-ramp	HDD 115	C-106	STA 70086
Local	Main Street	HDD 115	C-106 to C-107	STA 70087
	Route 9W on-ramp	HDD 115	C-107	STA 70088
Local	Old Main Street	HDD 115	C-107	STA 70089
Local	Bushnell Ave	HDD 115	C-107	STA 70097
Local	West Main Street	Trench	C-107	STA 70100
Local	Willow Street	Trench	C-108	STA 70102
Local	Depot Street	Trench	C-108	STA 70110
Local	Cauterskill Ave	HDD 118	C-110	STA 70138
NYSDOT	West Bridge Street (Route 9W)	HDD 118	C-110	STA 70144
Private	Unnamed Access Road/Driveway	Trench	C-114, C-115	STA 70209
Local	Embought Road	Trench	C-119	STA 70277
Private	Unnamed private driveway	Trench	C-123	STA 70330 to 70332
Private	Unnamed private driveway	Trench	C-123	STA 70335 to 70336
Private	Unnamed private driveway	Trench	C-124	STA 70349
Private	Unnamed private driveway	Trench	C-126	STA 70382
Private	Lehigh Road	Trench	C-127	STA 70398
Town	Alpha Boulevard	Trench	C-128	STA 70419
Town	Alpha Boulevard	Trench	C-130	STA 70438
Private	Unnamed Access Road to Hudson River	Trench	C-130	STA 70441

Jurisdiction	Parallel Road	Construction Method	Sheet	Approximate Station Location (See Drawings for Details)
Local	Allen Street	C-105.1 to C-106	STA 70069 to 70071	Parallel Trench
NYSDOT	Maple Ave (9W) and Route 9W off-ramp	C-106	STA 70073 to 70086	Parallel Trench
NYSDOT	Maple Street (9W)	C-107	STA 70096 to 70101	Parallel trench and HDD
Private	Unnamed private driveway	C-119 to C-123	STA 70279 to 70330	Parallel trench and HDD
Private	Lehigh Road	C-126, C-127	STA 70378 to 70398	Parallel trench and HDD
NYSDOT	Route 9W	C-127 to C-128	STA 70399 to 70418	Parallel Trench
Town	Alpha Boulevard	C-128 to C-130	STA 70420 to 70438	Parallel Trench
Private	Unnamed Access Road to Hudson River	C-130	STA 70442 to 70448	Parallel Trench

Table 13.3 – Railroad Crossings				
Railroad Owner	Crossing ID	Crossing Type	Approximate Station (Details on Drawings)	
CSX	C-105	STA 70057+00	HDD 113	
CSX	C-108	STA 70117+00	HDD 117	
CSX	C-123 to C-124	STA 70343+00 to 70349+00	HDD 122	

	Table 13.4 - Segment 11 Parallel Railroad Construction				
Railroad	Sheet	Approximate Crossing Station Location (See Drawings for Details)	Construction Method		
CSX	C-101 to C-104	STA 70001+00 to 70056+00	Parallel trench and HDD		
CSX	C-107.01 to C-122	STA 70102+00 to 70316+00	Parallel trench and HDD		
CSX	C-123 to C-126	STA 70334+00 to 70390+00	Parallel trench and HDD		

Table 14 - Restoration Methods		
Land Use Description	Section of EM&CP	
Construction Materials and Equipment Staging Locations and Temporary Access Roads	14.2.2	
Pavement	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 Lands	N/A	
Drainage Features	N/A	
General Agricultural Lands	14.5	

Section 14.0 of the EM&CP describes the cleanup standards and procedures that will be followed throughout this segment once construction is complete. Table 14 summarizes the appropriate subsection with Section 14 that includes the restoration procedure for each type of land use.

EM&CP NOISE SENSITIVE AREAS NOTE
THE NOISE RECEPTORS THAT MAY OCCUR NEAR SEGMENT 11 AT VARIOUS POINTS INCLUDE RESIDENCES AND BUSINESSES. SECTION 10.2 OF THE EM&CP DESCRIBES THE NOISE CONTROL MEASURES THAT WILL BE EMPLOYED THROUGHOUT THIS SEGMENT.

INVASIVE SPECIES
SECTION 9.4 OF THE EM&CP AND APPENDIX N DESCRIBE THE INVASIVE SPECIES MANAGEMENT PLAN FOR THE PROJECT. SECTION 9.4.2 OF THE EM&CP DESCRIBE THE MEASURES TO PREVENT OR CONTROL THE TRANSPORT OF IVNASVIE PLANT AND INSECT SPECIES AS WELL AS THE NECESSARY REPORTING REQUIREMENTS TO NYSDEC REGIONAL FORESTER IF THESE SPECIES ARE ENCOUNTERED. THE EN~RONMENTAL INSPECTOR WILL ENSURE THAT MEASURES TO PREVENT AND CONTROL THE SPREAD OF INVASIVES ARE FOLLOWED AND THAT CONSTRUCTION CREWS ARE EDUCATED IN SAID MEASURES. THE ENVIRONMENTAL INSPECTOR WILL NOTIFY CREWS IF AN UPCOMING WORK AREA REQUIRES SAID







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

R INFORMATION SEE THE ENVIRONMENTAL MANAGEMENT AND CONSTRUCTION PLAN NARRATIVE.
CONSTRUCTION FLAN MARKATIVE.

	CHAMPLAIN HUDSON POWER EXPRESS SEGMENT 11 (PACKAGE 7A) - CSX: CATSKILL EM&CP DATA TABLES-SHEET 3 OF 3

DB APP DRAWN BY: RB DESIGNED BY: AC APPROVED BY: JL SCALE REV. NO.

RB JL

06/19/2023 ISSUED FOR CONSTRUCTION SUBMISSION

SUBMITTAL / REVISION DESCRIPTION

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

G-012

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 THE FOLLOWING SECTIONS. 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

FROM THE BMPS', CLEAN-UP, 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 ROWS WILL BE THOROUGHLY CLEANED AFTER CONSTRUCTION IS COMPLETED ON THAT PARTICULAR SECTION. VEGETATION TO BE CLEARED WILL BE IDENTIFIED ON A SITE-SPECIFIC BASIS ON THE EM&CP PLAN AND PROFILE DRAWINGS. CLEARED VEGETATION WILL BE DISPOSED OF IN ACCORDANCE WITH THE APPROPRIATE DISPOSAL TECHNIQUES. 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. ALL TRUCKS LEAVING THE CONSTRUCTION AREA WILL BE LOADED AND COVERED IN ACCORDANCE WITH APPLICABLE REGULATIONS AS NEEDED AS DESCRIBED IN THE SOIL MANAGEMENT PLAN OF THE EM&CP IN APPENDIX L. NO FABRICATED DEBRIS BE BURNED OR BURIED.

RESTORATION AND PLANTING

THE FINAL STAGE OF CONSTRUCTION WILL CONSIST OF RESTORING THE ROW TO ITS ORIGINAL CONDITION AND CHARACTER TO THE EXTENT 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 OR IN ACCORDANCE WITH THE EM&CP. 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 MANAGEMENT PLAN IN APPENDIX L. HDD ENTRY AND EXIT PITS WILL BE BACKFILLED AND THE DISTURBED GROUND SURFACE WILL BE SIMILARLY GRADED. TRENCHES WILL BE BACKFILLED IN ACCORDANCE WITH THE MEASURES OUTLINED IN SECTION 4.4.7 OF THE EM&CP. 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.

SEEDING AND PLANTING

SEEDING OPERATIONS WILL COMMENCE ONLY AFTER AN ACCEPTABLE SEEDBED HAS BEEN ESTABLISHED. SEED WILL BE APPLIED BY HAND, CYCLONE SEEDER, DRILL, OR CULTI-PACKER-TYPE SEEDER AT A DEPTH OF 0.25 TO 0.5 INCH. THE SEEDBED WILL BE FIRMED FOLLOWING SEEDING OPERATION WITH A ROLLER OR LIGHT DRAG, EXCEPT WHERE CULTI-PACKER-TYPE SEEDERS OR HYDROSEEDERS ARE USED. THE ENTIRE SEEDED AREA WILL BE WATERED WITH A FINE SPRAY UNTIL A UNIFORM MOISTURE DEPTH OF ONE (1) INCH HAS BEEN ACHIEVED. 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 AT THE APPROPRIATE RATES AFTER SEED IS APPLIED. 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 EITHER ORIGINAL TAGS OR SCANNED COPIES. THE SEED MIXTURES WILL FOLLOW THE TECHNICAL SPECIFICATIONS INCLUDED ON THE PLAN AND PROFILE DRAWINGS IN APPENDIX C FOR UPLANDS AND WETLAND BUFFER ZONES. SEEDED AREAS WILL BE MONITORED FOLLOWING RESTORATION UNTIL A MINIMUM VEGETATIVE COVER OF EIGHTY (80) PERCENT IS ACHIEVED.

WHERE TREE OR SHRUB PLANTINGS ARE PRESCRIBED IN THE EM&CP, 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 (BMP DOCUMENT SECTION 11.1.2.5).

VEGETATION THROUGHOUT THE TEMPORARY 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.

IF 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 OR LANDSCAPED AREAS, WILL BE REPLACED WITHIN THE FOLLOWING YEAR BY THE CERTIFICATE HOLDERS WITH THE EQUIVALENT TYPE OF TREES OR SHRUBS EXCEPT IF:

- 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

UPON COMPLETION OF BACKFILLING OPERATIONS, CLEANUP AND RESTORATION OF THE STREAM CROSSING, BANKS AND BANK APPROACHES (AT LEAST 50 FEET ADJACENT TO EACH BANK) WILL BE COMPLETED WITHIN 24 HOURS. IF NEEDED, STREAM BANKS WILL BE RE-ESTABLISHED TO ORIGINAL GRADE IMMEDIATELY AFTER STREAM BANK WORK IS COMPLETED. THE BANKS WILL THEN BE PERMANENTLY STABILIZED BY SEEDING WITH NATIVE GRASSES, MULCHED AND, IF NEEDED, PLANTED WITH NATIVE OR NATURALIZED SHRUB SEEDLINGS. IF ADDITIONAL STABILIZATION IS NEEDED JUTE NETTING OR EROSION CONTROL BLANKETS WILL BE USED. RESTORATION AND PLANTING DETAILS FOR WATERBODIES ARE FURTHER DETAILED IN SECTION 14.4.1 OF THE EM&CP. MANY 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, WHERE IMPACTS TO WATERBODIES DO OCCUR, THE PROCEDURES FOR THE CLEANUP AND RESTORATION OF STREAMS AND WATERBODIES ARE SUMMARIZED IN SECTION 9.1 OF THE EM&CP

RESTORATION OF WETLANDS

DURING THE INITIAL RESTORATION PHASE, ALL CONSTRUCTION DEBRIS WILL BE REMOVED FROM THE RIGHT-OF-WAY. SEGREGATED TOPSOIL WILL BE REPLACED, AND WETLAND CONTOURS AND DRAINAGE PATTERNS WILL BE RESTORED TO APPROXIMATE ORIGINAL CONDITION BY MATCHING THAT WHICH EXISTS IN ADJACENT UNDISTURBED AREAS.

RESTORATION OF THE WETLAND (OTHER THAN THE TRAVEL WAY) WILL BE COMPLETED WITHIN 24 HOURS AFTER BACKFILLING IS COMPLETED. THIS WILL BE DONE FOR A MINIMUM DISTANCE OF 50 FEET FROM THE WETLAND EDGE. RESTORATION OF THE WETLAND WILL INCLUDE BUT IS NOT LIMITED TO FINAL GRADING, SEEDING WITH A NATIVE WETLAND SEED MIX, FERTILIZING, AND MULCHING. HIGH ORGANIC SOILS (AS DETERMINED BY NYSDEC, DPS, OR THE ENVIRONMENTAL INSPECTOR) WILL BE GRADED BACK TO ORIGINAL CONTOURS AND LEFT UNMULCHED AND UNSEEDED TO FACILITATE THE GERMINATION OF NATIVE SEEDS AND SPROUTING OF RHIZOMES FROM THE SEED BANK. FOLLOWING CLEANUP, THE WETLAND WILL BE EVALUATED FOR POSSIBLE VEGETATIVE PLANTINGS. THIS WILL BE DONE IN CONSULTATION WITH THE APPROPRIATE AGENCIES AND IN ACCORDANCE WITH THE EM&CP.

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 (SHOWN ON PLAN AND PROFILE DRAWINGS, APPENDIX C).

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

THE CONSTRUCTION MATERIALS EQUIPMENT STAGING LOCATIONS FOR THIS SEGMENT ARE SUMMARIZED IN SECTION 5.4 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.

PLANT INSPECTION, GUARANTEE AND MAINTENANCE

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 -YEAR SURVIVAL GUARANTEE (BMP DOCUMENT SECTION 11.2.2). 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 (BMP DOCUMENT SECTION 11.2.1.5).

SWPPP INSPECTIONS WILL BE PERFORMED BY THE ENVIRONMENTAL INSPECTOR ON A WEEKLY BASIS UNTIL ALL DISTURBED AREAS HAVE ACHIEVED THE 80% REVEGETATION REQUIRED FOR FINAL RESTORATION. 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 AND ARE INCLUDED IN EM&CP SECTION 14.2.2 (BMP DOCUMENT SECTION 11.2.2).

RESTORATION OF RECREATIONAL AREAS

FOLLOWING CONSTRUCTION, THE CERTIFICATE HOLDERS WILL RESEED THE CONSTRUCTION AREA WITHIN RECREATIONAL AREAS SUCH AS THE CANALS 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. RECREATIONAL AREAS ARE DESCRIBED IN SECTION 7.2 OF THE EMCP.

ROADWAY RESTORATION (STRIPPING, SIGNAGE, AUDIBLE ROADWAY

DELINEATORS)

STRIPPING IMPACTED OR REMOVED FROM CONSTRUCTION WITHIN THE LIMITS OF WORK, INCLUDING AREAS OF MILL AND OVERLAYS TO BE INSTALLED PER EXISTING STRIPPING PATTERNS. CONTRACTOR SHALL INVENTORY ALL STRIPPING PRIOR TO WORK. WORK TO BE COMPLETED IN ACCORDANCE WITH NYSDOT STANDARD SHEETS AND SPECIFICATIONS (SEE 685 SERIES STANDARD SHEETS).

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 CONTROLS APPROPRIATE FOR THOSE LOCATIONS, AS APPROPRIATE.

THE CERTIFICATE HOLDERS WILL CONSULT THE MUNICIPAL ROAD OR HIGHWAY DEPARTMENT AND/OR THE 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 SPECIFICATIONS AND DETAILS PROVIDED IN THE PLAN AND PROFILE DRAWINGS (SHEET C-631). GUIDE RAILS WILL BE REMOVED AND REPLACED IN ACCORDANCE WITH NYSDOT STANDARD SHEET 606-01. COUNTY/LOCAL ROADS WILL BE RESTORED UNDER A DIFFERENT COUNTY RESTORATION REQUIREMENT AS SHOWN IN THE PLAN AND PROFILE DRAWINGS (SHEET C-631).

SEED MIXES

- A. GENERAL SEED:
- 1. PIPELINE MIX W/SWITCHGRASS (ERNMX-102-1) 2. MIX COMPOSITION
- 33.0% PANICUM VIRGATUM, 'SHAWNEE' (SWITCHGRASS, 'SHAWNEE')
- 25.0% FESTUCA RUBRA (CREEPING RED FESCUE)
- 18.0% LOLIUM MULTIFLORUM (ANNUAL RYEGRASS) 16.0% PHLEUM PRATENSE, CLIMAX (TIMOTHY, CLIMAX)
- 5.0% TRIFOLIUM HYBRIDUM (ALSIKE CLOVER) 3.0% AGROSTIS ALBA (REDTOP)
- 3. APPLIED AT A RATE OF 40 LBS/ACRE.
- B. ADIRONDACK SEED:
 - 1. MIX COMPOSITION
 - 25% VIRGINIA WILD RYE (ELYMUS VIRGINICUS VAR. VIRGINICUS)
 - 25% CANADA WILD RYE (ELYMUS CANADENSIS)
 - 25% AUTUMN BENTGRASS (AGROSTIS PERENNANS)
 - 25% CAMPER LITTLE BLUESTEM (SCHIZACHYRIUM SCOPARIUM)
 - 2. APPLIED AT A RATE OF 40 LBS/ACRE.
- C. SPECIALIZED WETLAND MIX FOR SHADED OBL-FACW AREAS (ERNMX-137)
- 35.0% CAREX VULPINOIDEA, PA ECOTYPE (FOX SEDGE, PA ECOTYPE)
- 20.0% ELYMUS VIRGINICUS, MADISON-NY ECOTYPE (VIRGINIA WILDRYE, MADISON-NY ECOTYPE)
- 15.0% CAREX SCOPARIA, PA ECOTYPE (BLUNT BROOM SEDGE, PA ECOTYPE)
- 12.8% CAREX LURIDA, PA ECOTYPE (LURID SEDGE, PA ECOTYPE)
- 5.0% CAREX LUPULINA, PA ECOTYPE (HOP SEDGE, PA ECOTYPE)
- 4.0% VERBENA HASTATA, PA ECOTYPE (BLUE VERVAIN, PA ECOTYPE)
- 2.0% HELIOPSIS HELIANTHOIDES, PA ECOTYPE (OXEYE SUNFLOWER, PA ECOTYPE)
- 1.0% CAREX INTUMESCENS, PA ECOTYPE (STAR SEDGE, PA ECOTYPE)
- 1.0% SPARGANIUM AMERICANUM (EASTERN BUR REED)
- 0.7% IRIS VERSICOLOR (BLUEFLAG)
- 0.5% BIDENS CERNUA, PA ECOTYPE (NODDING BUR MARIGOLD, PA ECOTYPE)
- 0.5% CAREX CRINITA, PA ECOTYPE (FRINGED SEDGE, PA ECOTYPE)
- 0.5% CAREX STIPATA, PA ECOTYPE (AWL SEDGE, PA ECOTYPE)
- 0.5% EUPATORIUM PERFOLIATUM, PA ECOTYPE (BONESET, PA ECOTYPE)
- 0.5% SCIRPUS CYPERINUS, PA ECOTYPE (WOOLGRASS, PA ECOTYPE)
- 0.5% VERNONIA NOVEBORACENSIS, PA ECOTYPE (NEW YORK IRONWEED, PA ECOTYPE)
- 0.3% LOBELIA SIPHILITICA, PA ECOTYPE (GREAT BLUE LOBELIA, PA ECOTYPE)
- 0.2% PENTHORUM SEDOIDES, PA ECOTYPE (DITCH STONECROP, PA ECOTYPE) 2. APPLIED AT A RATE OF APPROXIMATELY 20 LBS/ACRE, ALONG WITH THE COVER CROP.
- 3. COVER CROP SHOULD BE APPLIED AT A RATE OF 60-80 LBS/ACRE. COVER CROP TO BE AN ANNUAL RYE. COVER CROP BASED ON SEASON OF RESTORATION AN ANNUAL RYE THROUGH SPRING AND SUMMER AND WINTER RYE FOR LATE FALL.
- D. FACW WETLAND MEADOW MIX (ERNMX-122)
- 1. MIX COMPOSITION
- 21.0% CAREX VULPINOIDEA, PA ECOTYPE (FOX SEDGE, PA ECOTYPE)
- 20.0% ELYMUS VIRGINICUS, PA ECOTYPE (VIRGINIA WILDRYE, PA ECOTYPE)
- 16.0% CAREX LURIDA, PA ECOTYPE (LURID SEDGE, PA ECOTYPE)
- 12.0% CAREX LUPULINA, PA ECOTYPE (HOP SEDGE, PA ECOTYPE)
- 12.0% CAREX SCOPARIA, PA ECOTYPE (BLUNT BROOM SEDGE, PA ECOTYPE)
- 3.0% VERBENA HASTATA, PA ECOTYPE (BLUE VERVAIN, PA ECOTYPE) 2.4% ASCLEPIAS INCARNATA, PA ECOTYPE (SWAMP MILKWEED, PA ECOTYPE)
- 2.0% JUNCUS EFFUSUS (SOFT RUSH)
- 2.0% ZIZIA AUREA. PA ECOTYPE (GOLDEN ALEXANDERS, PA ECOTYPE)
- 1.6% ASTER NOVAE-ANGLIAE, PA ECOTYPE (NEW ENGLAND ASTER, PA ECOTYPE)
- 1.3% CAREX STIPATA, PA ECOTYPE (AWL SEDGE, PA ECOTYPE) 1.0% BIDENS CERNUA, PA ECOTYPE (NODDING BUR MARIGOLD, PA ECOTYPE)
- 1.0% JUNCUS TENUIS, PA ECOTYPE (PATH RUSH, PA ECOTYPE)
- 0.8% SOLIDAGO RUGOSA, PA ECOTYPE (WRINKLELEAF GOLDENROD, PA ECOTYPE)
- 0.6% VERBENA URTICIFOLIA, PA ECOTYPE (WHITE VERVAIN, PA ECOTYPE) 0.5% CAREX CRINITA, PA ECOTYPE (FRINGED SEDGE, PA ECOTYPE)
- 0.5% EUPATORIUM PERFOLIATUM, PA ECOTYPE (BONESET, PA ECOTYPE) 0.5% HELENIUM AUTUMNALE, PA ECOTYPE (COMMON SNEEZEWEED, PA ECOTYPE)
- 0.5% MIMULUS RINGENS, PA ECOTYPE (SQUARE STEMMED MONKEYFLOWER, PA ECOTYPE)
- 0.3% LOBELIA SIPHILITICA, PA ECOTYPE (GREAT BLUE LOBELIA, PA ECOTYPE)
- 0.3% SCIRPUS CYPERINUS, PA ECOTYPE (WOOLGRASS, PA ECOTYPE) 0.2% ALISMA SUBCORDATUM, PA ECOTYPE (MUD PLANTAIN, PA ECOTYPE)
- 0.2% ASTER PUNICEUS, PA ECOTYPE (PURPLESTEM ASTER, PA ECOTYPE)
- 0.2% ASTER UMBELLATUS, PA ECOTYPE (FLAT TOPPED WHITE ASTER, PA ECOTYPE)
- 0.1% PENTHORUM SEDOIDES, PA ECOTYPE (DITCH STONECROP, PA ECOTYPE)
- 2. APPLIED AT A RATE OF APPROXIMATELY 20 LBS/ACRE, ALONG WITH THE COVER CROP. 3. COVER CROP SHOULD BE APPLIED AT A RATE OF 60-80 LBS/ACRE. COVER CROP TO BE AN ANNUAL RYE. COVER CROP BASED ON SEASON OF RESTORATION AN ANNUAL RYE THROUGH SPRING AND SUMMER AND WINTER RYE FOR LATE FALL.
- E. LAWN MIX: USE AN ERNST SEED MIX, SUCH AS ATHLETIC FIELD MIX OR SIMILAR.

CHPE **Power Express**





(A NEW YORK PROFESSIONAL CORPORATION)

TETRA TECH ENGINEERING AND SURVEYING P.C

FOR INFORMATION SEE THE ENVIRONMENTAL MANAGEMENT AND CONSTRUCTION PLAN NARRATIVE.

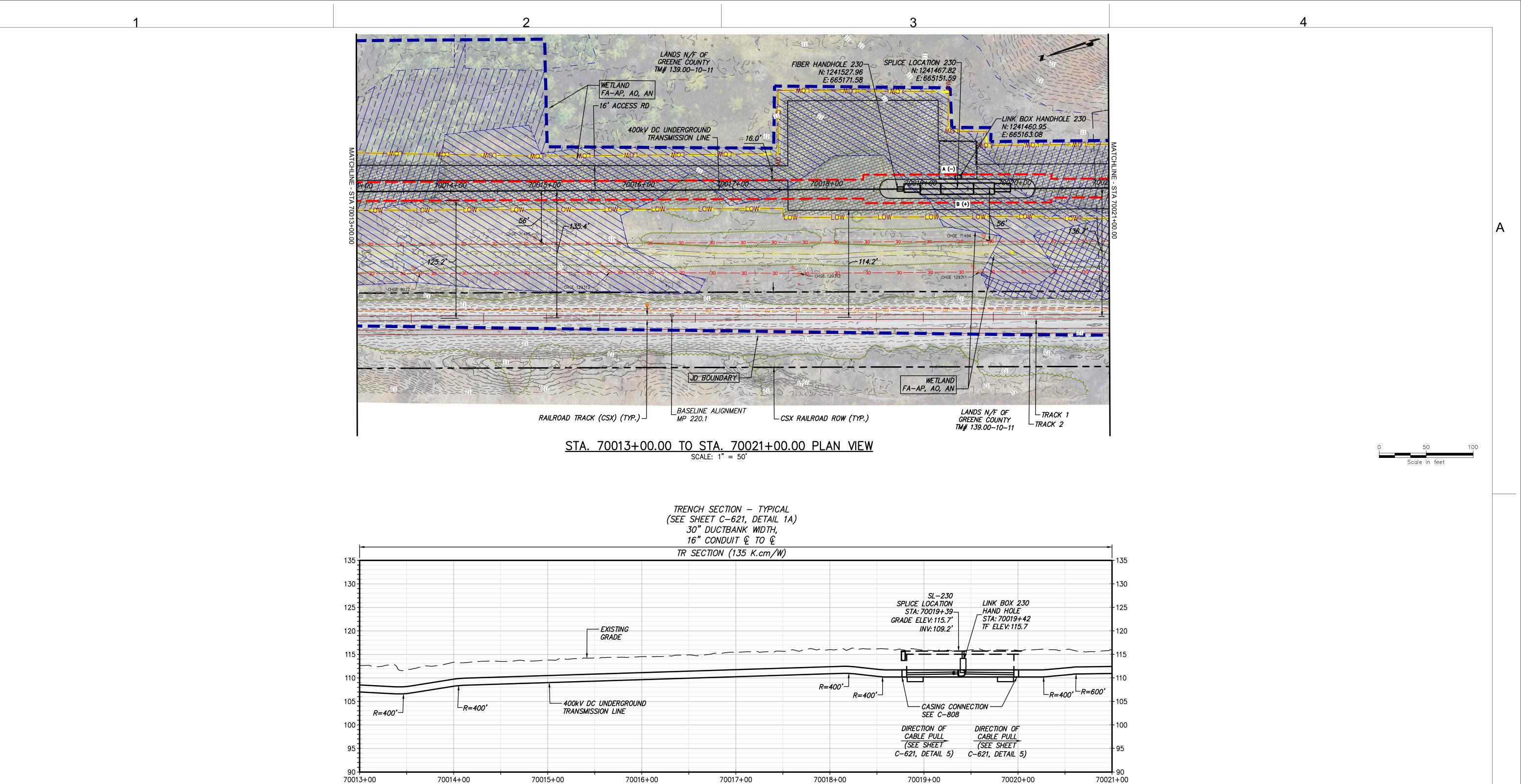
RB JL 06/19/2023 ISSUED FOR CONSTRUCTION SUBMISSION SUBMITTAL / REVISION DESCRIPTION

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

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

G-020

DB | APP | DRAWN BY: RB | DESIGNED BY: AC | APPROVED BY: JL | REV. NO.



STA. 70013+00 TO STA. 70021+00 PROFILE VIEW

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









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.

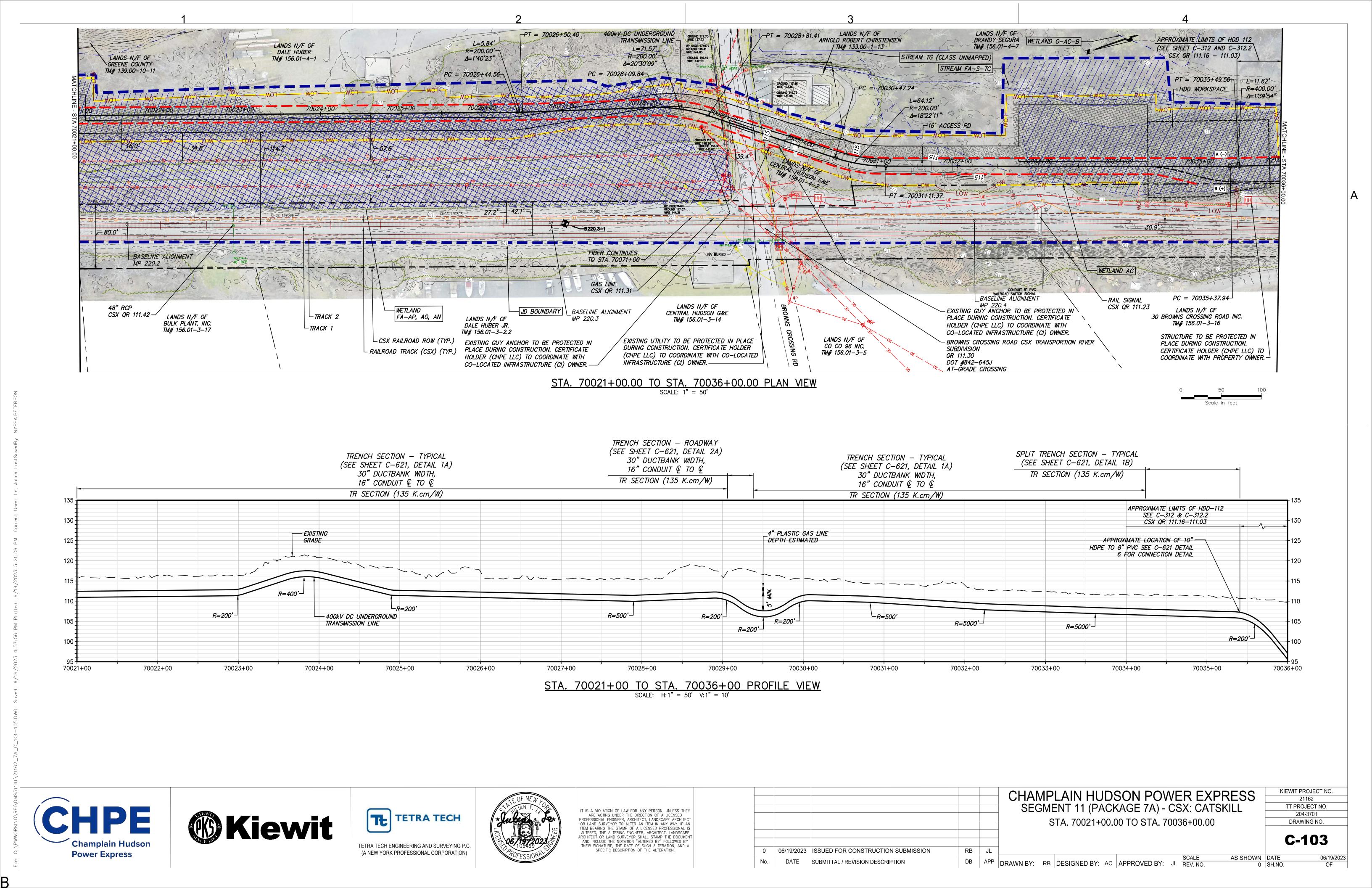
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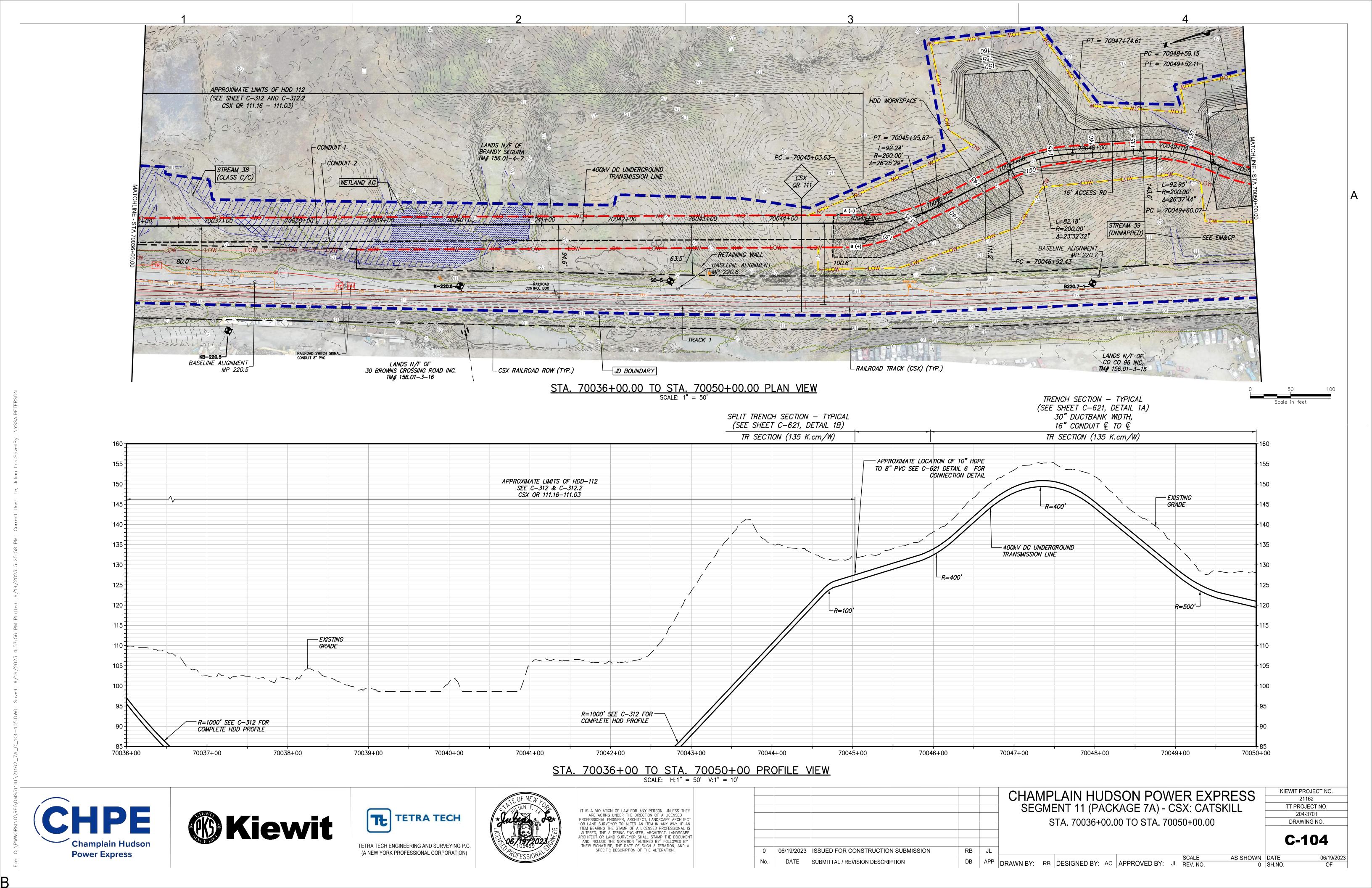
CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 11 (PACKAGE 7A) - CSX: CATSKILL
STA. 70013+00.00 TO STA. 70021+00.00

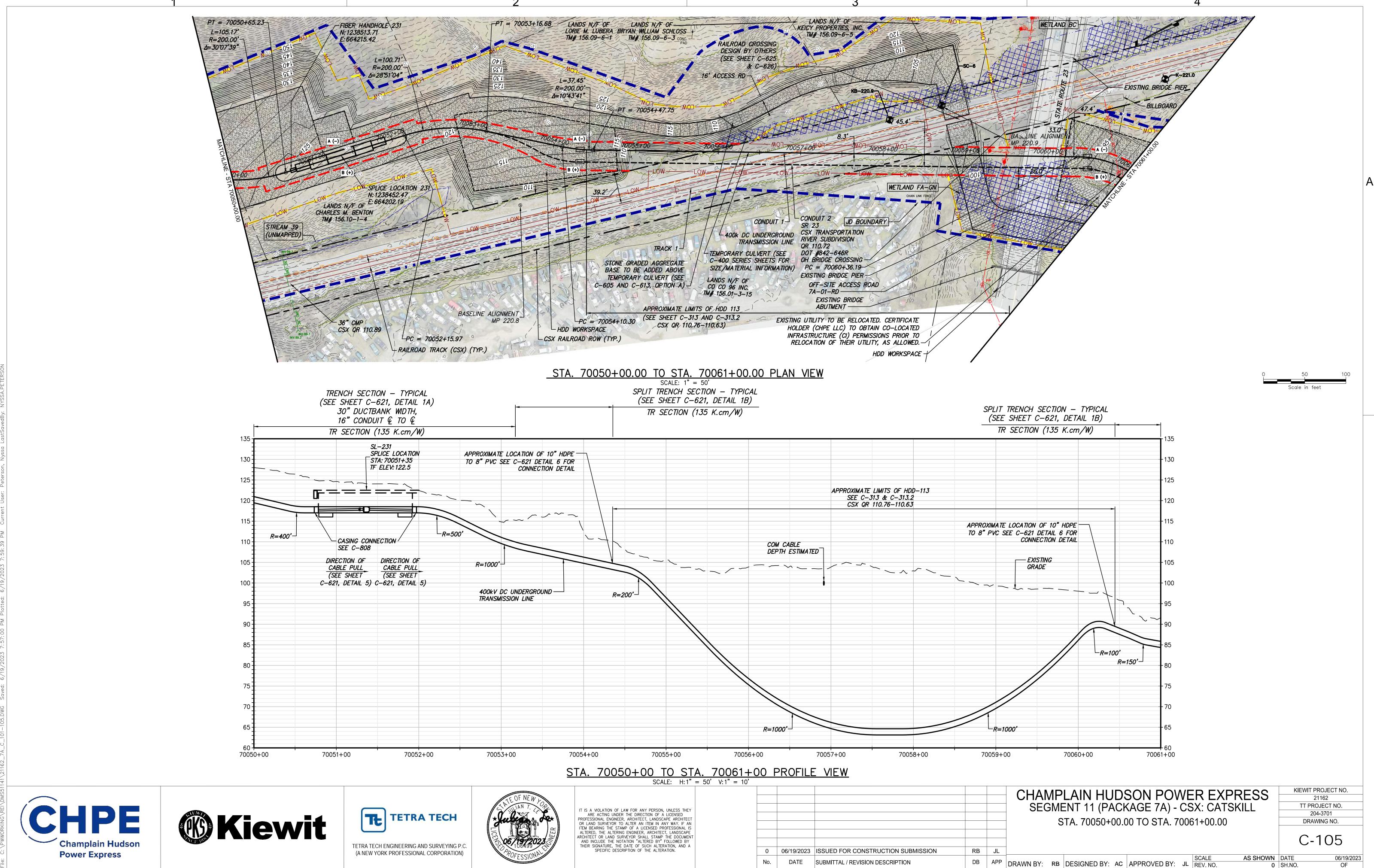
KIEWIT PROJECT NO. 21162 TT PROJECT NO. 204-3701 DRAWING NO.

C-102

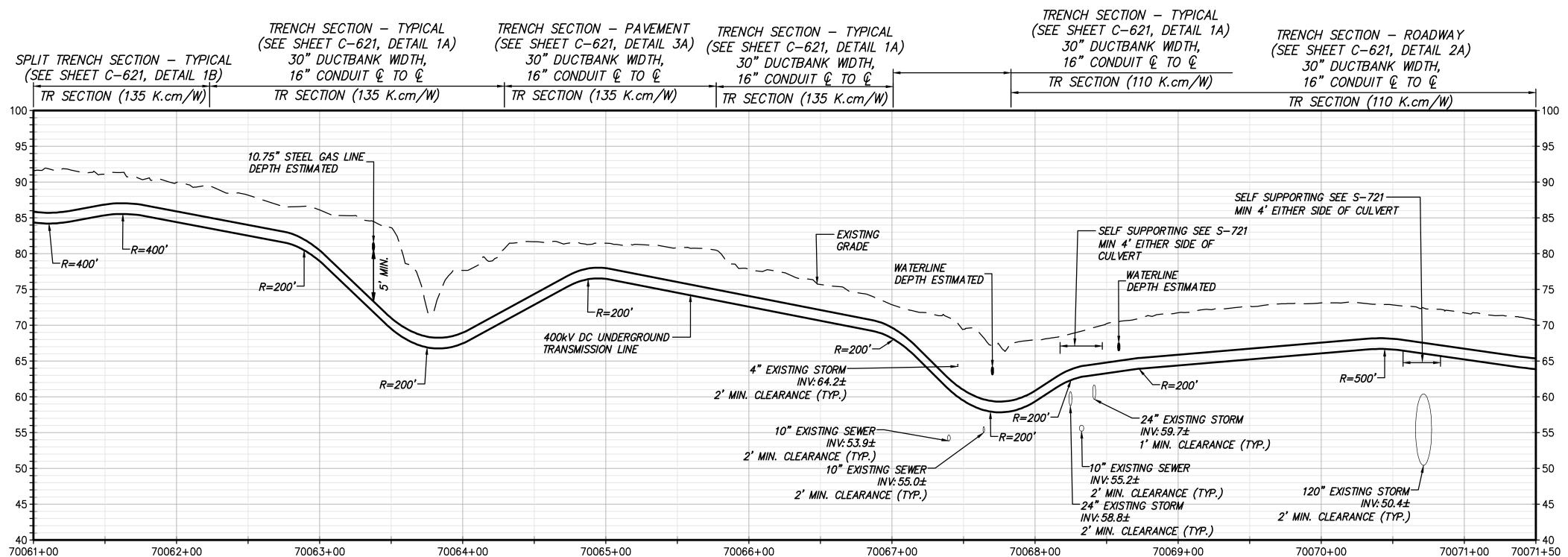
AS SHOWN DATE 0 SH.NO.







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STA. 70061+00 TO STA. 70071+50 PROFILE VIEW

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







(A NEW YORK PROFESSIONAL CORPORATION)



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THE
ARE ACTING UNDER THE DIRECTION OF A LICENSED
PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITEC
OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AT
ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS
ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE
ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMEN
AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY
THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A
SPECIFIC DESCRIPTION OF THE ALTERATION.

					CHAMPLAIN HUDSON POWER EX SEGMENT 11 (PACKAGE 7A) - CSX: CA
					,
					STA. 70061+00.00 TO STA. 70071+50.0
0	06/19/2023	ISSUED FOR CONSTRUCTION SUBMISSION	RB	JL	
No.	DATE	CLIDMITTAL / DEVICION DESCRIPTION	DB	APP	SCALE
INO.	DATE	SUBMITTAL / REVISION DESCRIPTION	סט	AFF	DRAWN BY: RB DESIGNED BY: AC APPROVED BY: JL REV. NO.

CHAMPLAIN HUDSON POWER EXPRESS SEGMENT 11 (PACKAGE 7A) - CSX: CATSKILL STA. 70061+00.00 TO STA. 70071+50.00

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

C-105.1

