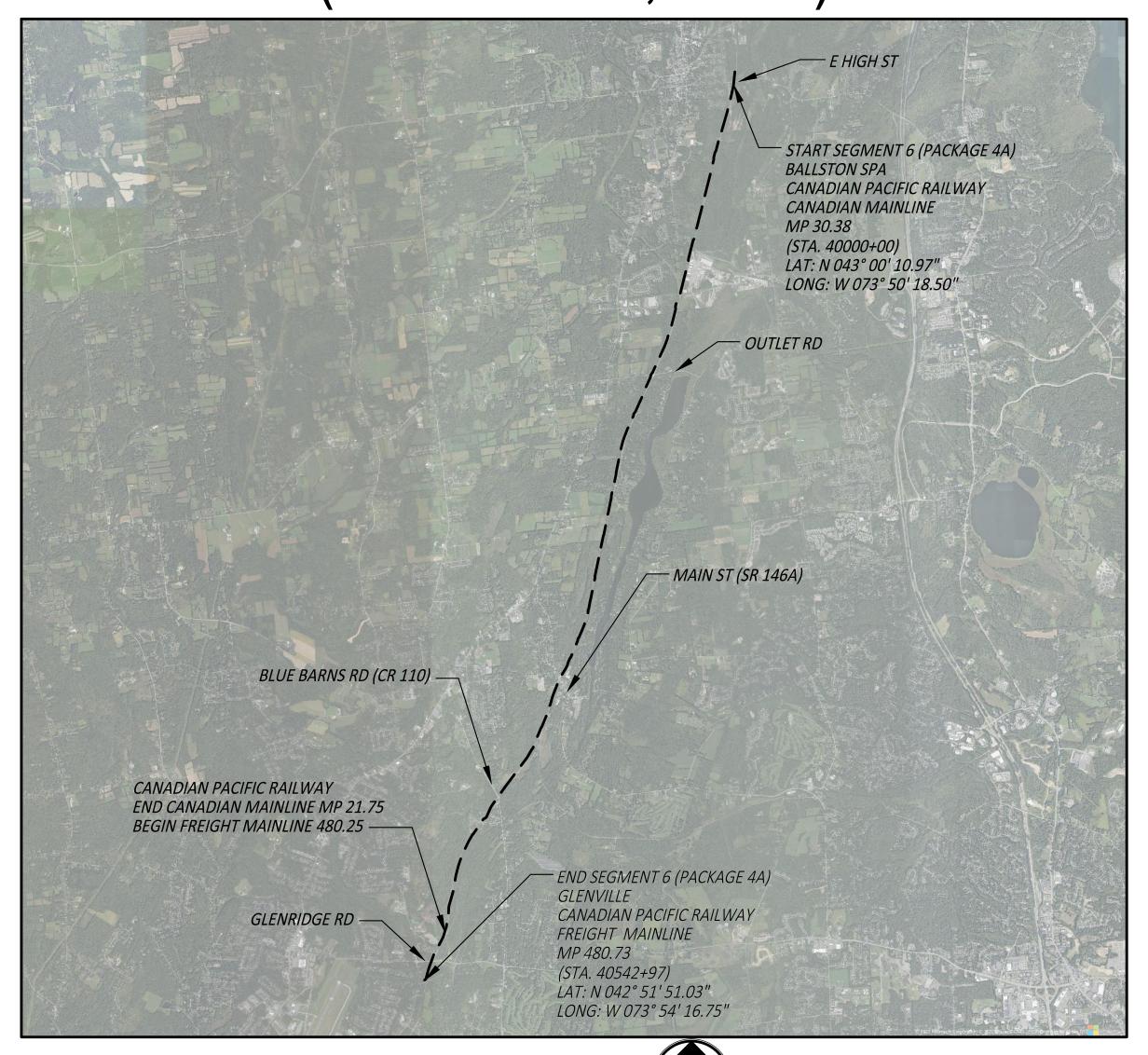
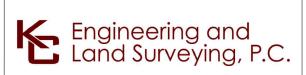
CHAMPLAIN HUDSON POWER EXPRESS

SEGMENT 6 (PACKAGE 4A) - BALLSTON SPA TO GLENVILLE SARATOGA COUNTY AND SCHENECTADY COUNTY, NEW YORK IFC SUBMISSION (AUGUST 3, 2023)











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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C-301.1



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DSON POWER EXPRESS 4A) - CP: BALLSTON TO GLENVILLE HEET INDEX

KIEWIT PROJECT NO. 21162 KC PROJECT NO. 120174 DRAWING NO.

G-001 AS NOTED DATE DB APP DRAWN BY: CS DESIGNED BY: JM APPROVED BY: SB REV. NO. DATE SUBMITTAL / REVISION DESCRIPTION -- OF -- 2. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED APPROVAL OF THE ENGINEER. CHANGES TO THE PLAN SHALL BE DONE IN ACCORDANCE WITH THE EM&CP SECTION 3.2.6.

THE CONTRACTOR SHALL RESTORE LAWNS, DRIVEWAYS, CULVERTS, SIGNS AND OTHER PUBLIC OR PRIVATE PROPERTY DAMAGED OR REMOVED TO AT LEAST AS GOOD A CONDITION AS BEFORE BEING DISTURBED AS DETERMINED BY THE ENGINEER.

4. THE CONTRACTOR AND/OR CERTIFICATE HOLDER SHALL BE RESPONSIBLE FOR OBTAINING AND INCURRING THE COST OF ALL CONSTRUCTION PERMITS, INSPECTIONS, CERTIFICATES, ETC. AND SHALL COMPLY WITH ALL REQUIRED PERMITS.

5. ALL WORK SHALL BE DONE IN STRICT COMPLIANCE WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES, STANDARDS, ORDINANCES, RULES, AND REGULATIONS.

6. ALL PROPOSED UTILITIES AND APPURTENANCES TO BE CONSTRUCTED IN COMPLIANCE WITH THE LOCAL MUNICIPALITIES' CODES AND REGULATIONS GOVERNING THE INSTALLATION OF SUCH UTILITIES.

7. THE ENGINEER RESERVES THE RIGHT TO EXAMINE ANY WORK DONE ON THIS PROJECT AT ANY TIME TO DETERMINE THE CONFORMANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS OF THIS PROJECT.

8. THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY LINE MONUMENTATION. ANY MONUMENTATION DISTURBED OR DESTROYED, AS JUDGED BY THE ENGINEER OR OWNER, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE UNDER THE SUPERVISION OF A NEW YORK STATE LICENSED LAND SURVEYOR.

9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE ALL PLAN SHEETS.

10. THE CONTRACTOR SHALL:

A. VERIFY ALL CONDITIONS IN THE FIELD PRIOR TO COMMENCEMENT OF WORK AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES. B. EXAMINE THE SITE AND INCLUDE IN HIS WORK THE EFFECT OF ALL EXISTING CONDITIONS ON THE WORK.

C. PROVIDE AND INSTALL ALL MATERIALS AND PERFORM ALL WORK IN ACCORDANCE WITH RECOGNIZED GOOD STANDARD PRACTICE.

11. ALL TRENCH EXCAVATION AND ANY REQUIRED SHEETING AND SHORING SHALL BE DONE IN ACCORDANCE WITH THE LATEST REVISIONS OF NEW YORK STATE INDUSTRIAL CODE RULE 23 AND OSHA REGULATIONS FOR CONSTRUCTION. SHEET PILING SHALL BE DESIGNED AND SEALED BY A NEW YORK STATE PROFESSIONAL ENGINEER. WHERE WITHIN RAIL ROAD ROW, ANY EXCAVATION AND SHORING SHALL BE DESIGNED TO MINIMUM CSX AND AREMA REQUIREMENTS.

12. CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF WORK IN CONFORMANCE WITH REFERENCE SECTION 4.4.6 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.

27. REFER TO C-624 FOR GAS FENCE DETAIL.

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.

DISTURBANCE NOTES:

1. THE PROPOSED DISTURBANCE FOR THE TRENCH WILL BE LIMITED TO THE WIDTH OF THE TRENCH SECTIONS DEPICTED ON C-621 INCLUDING 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.











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SUBMITTAL / REVISION DESCRIPTION

UDSON POWER EXPRESS E 4A) - CP: BALLSTON TO GLENVILLE ENERAL NOTES

DB | APP | DRAWN BY: CS | DESIGNED BY: JM | APPROVED BY: SB | REV. NO.

KIEWIT PROJECT NO. 21162 KC PROJECT NO. 120174 DRAWING NO.

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- 3. CONSTRUCTION UNDER TRANSMISSION LINES REQUIRES A DEDICATED SPOTTER, AS APPLICABLE.
- 4. THE CONTRACTOR SHALL SUBMIT QUALIFIED INDIVIDUALS' RESUMES TO NATIONAL GRID.
- 5. THE CROSSING OF NATIONAL GRID PIPELINE IS APPROVED PROVIDED THE CONTRACTOR SATISFIES THE FOLLOWING CONDITIONS:
- 5.a. A NATIONAL GRID REPRESENTATIVE MUST BE ONSITE WHILE CONSTRUCTION ACTIVITIES ARE OCCURRING. 5.b. EXPOSE THE PIPELINE COMPLETELY, A 360-DEGREE VIEW OF THE PIPELINE, AT EACH CROSSING
- LOCATION AND LEAVE THE PIPELINE EXPOSED WHILE THE HDD IS PASSING BELOW NATIONAL GRID'S
- 6. RESTRICTING ACCESS TO ANY PORTION OF A NATIONAL GRID ROW SHALL BE COORDINATED WITH NATIONAL GRID PRIOR TO THE RESTRICTION BEING PUT IN PLACE.
- 7. CONSTRUCTION SHALL NOT PREVENT ANY EMERGENCY RESTORATION RESPONSE/ ACCESS BY NATIONAL GRID
- 8. ORIGINAL CONTOURS MUST BE RETURNED TO ORIGINAL CONDITIONS.

CANADIAN PACIFIC RAILWAY (CPR) NOTES:

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

GENERAL HORIZONTAL DIRECTIONAL DRILLING NOTES:

- 1. UNLESS NOTED OTHERWISE ON C-300 SERIES HDD PLAN AND PROFILES, EACH HDD CONSISTS OF A PAIR OF (2) HVDC ELECTRICAL TRANSMISSION CABLES HOUSED IN INDIVIDUAL 10"DIAMETER CASINGS/CONDUITS, HDPE DR9, AND A THIRD 2"DIAMETER CASING/CONDUIT, HDPE DR9, WILL BE BUNDLED IN PULLBACK WITH ONE OF THE 10"CASINGS/CONDUITS FOR A TELECOMMUNICATION
- 2. THERMAL RESISTIVITY (TR) HORIZONTAL SPACING TO BE MAINTAINED IN PLAN BETWEEN CONDUIT 1 AND CONDUIT 2 IS CALLED OUT AS "TRDS" APPENDED TO A DIMENSION IN BETWEEN CONDUITS IN PLAN VIEWS, WHERE TRDS IS THE THERMAL RESISTIVITY DESIGN SPACING.TRDS IS DERIVED FROM AN ASSIGNED RHO (GREEK CHARACTER & FOR TR) AND ON DESIGN DEPTH FOR THE PAIR OF CONDUITS IN SHOWN PROFILE. RHO AND TRDS ARE DETERMINED BY ELECTRICAL ENGINEERING ON THE BEHALF OF THE OWNERS.
- 3. THE HDD CONTRACTOR SHALL HOLD THE TRDS IN THEIR OPERATIONS WITHIN THE HORIZONTAL TOLERANCES SPECIFIED IN SECTION 330507.13. IN CONSTRUCTION, THE SPACING SHALL BE CONTROLLED, OBSERVED, AND MAINTAINED SUCH THAT THE AS-BUILT SPACING SHALL NEVER BE LESS THAN TRDS MINUS 10 FEET, ABSOLUTE MINIMUM.
- 4. HDD CONTRACTOR SHALL COORDINATE WITH OVERHEAD ELECTRIC OWNER/OPERATOR(S) TO HAVE TEMPORARY PROTECTIVE SLEEVES INSTALLED ON OVERHEAD POWER LINES IN THE VICINITY OF WORKZONES.
- 5. STANDARD PENETRATION TEST, SPT. N-VALUES SHOWN ON THE C-300 SERIES DRAWINGS ARE NOT CORRECTED FOR THE SAMPLER SIZE OR HAMMER ENERGY. REFERENCE BORING LOGS AND GEOTECHNICAL REPORTS FOR DETAILED INFORMATION.
- 6. WHEN CONDUCTOR CASINGS OR CONDUITS ARE USED TO MANAGE INADVERTENT RETURNS, THE CONDUCTOR SHALL BE REMOVED IMMEDIATELY AFTER THE PULL BACK OF THE MAIN CONDUIT OR CONDUIT BUNDLE. A WRITTEN PLAN MUST BE SUBMITTED SEEKING ENGINEERING APPROVAL OF THE MATERIAL USED TO REPLACE THE RESIDUAL DRILLING FLUID WHEN FILLING THE ANNULAR SPACE BETWEEN THE CONDUIT OR CONDUIT BUNDLE AND THE NATIVE SOILS LEFT AFTER CONDUCTOR CASING EXTRACTION.
- 7. FOR WORKZONES THAT ARE ADJACENT TO OR IN CLOSE PROXIMITY TO OVERHEAD ELECTRIC WHERE EQUIPMENT MUST BE MANEUVERED THE HDD SUBCONTRACTOR SHALL COORDINATE WITH ELECTRIC OWNER/OPERATOR TO ENSURE THAT ALL OSHA MANDATED CLEARANCES ARE OBSERVED AND MAINTAINED WITH THE INSTALLATION OF HIGH VISIBILITY RUBBER SLEEVES FOR VISUAL INDICATION PURPOSES. ADDITIONAL SPOTTERS SHOULD BE CONSIDERED.
- 8. WHEN AN HDD WORK ZONE OR WORK AREA CROSSES, OVERLAPS, OR IMPACTS DESIGNATED WETLANDS. RESTORATION OF THOSE WETLANDS SHALL BE INITIATED UPON COMPLETION OF WORK USING ACCEPTED ENVIRONMENTAL BEST MANAGEMENT PRACTICES (BMP). WORK ZONES ARE CONSIDERED AN EXTENSION OF ACCESS ROADS. TIMBER MATTING, AS SHOWN AND NOTED ON WETLAND CROSSING DETAILS, SHEET C-611, OPTION "A" AND/OR OPTION 'B" ADAPTED TO THE SITE-SPECIFIC NEEDS AND ADJACENT ACCESS ROADS, SHOULD BE USED.
- 9. ABANDONED UTILITY POLES THAT ARE ENCOUNTERED WITHIN THE RAILROAD ROW AND BOUNDARY BY THE HDD SUBCONTRACTOR WITHIN WORK ZONES, IMMEDIATELY ADJACENT TO A WORK ZONE, OR THAT OTHERWISE OBSTRUCT PREPARATION OF, OR USE OF, A WORK ZONE AND OR FABRICATION OF THE PULLBACK STRING OF HDPE CONDUIT(S) SHALL BE REMOVED AND DISPOSED OF BY OTHERS.
- 10. HDD DESIGN FOR THE PURPOSES OF PERMITTING AND REGULATORY APPROVAL DID NOT FOCUS ON OR PROMOTE THE USE OF BALLAST OR ROLLERS TO MANAGE INSTALLATION STRESSES. BALLAST OR ROLLERS ARE AN IMPORTANT TOOL AT THE DISPOSAL OF THE HDD SUBCONTRACTORS AND THEIR HDD ENGINEERS. THESE TECHNIQUES MAY BE REFERENCED IN THE DSR AND IRCP REPORT DOCUMENTS. IF BALLASTING OR ROLLERS ARE REQUIRED FROM THE ENGINEER OF RECORD ANALYSIS, IT WILL BE NOTED ON THE 300 SERIES DRAWINGS ON A CASE-BY-CASE BASIS.
- 11. 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.
- 12. FOR WORK ZONES THAT ARE LOCATED WITHIN AG LANDS, TOPSOIL IS TO BE STRIPPED AND STOCKPILED UNLESS MATTING IS TO BE UTILIZED. STOCKPILING IS TO OCCUR ALONG SIDE OF ROADWAY WITHIN LIMIT OF WORK OR DESIGNATED AREAS TO BE FIELD DETERMINED WITH THE LIMIT OF WORK. AT THE COMPLETION OF THE PROJECT, CONTRACTOR TO REMOVE WORK ZONE AND RESTORE TO EXISTING CONDITIONS IN ACCORDANCE WITH THE RESTORATION SECTION FOR AGRICULTURAL LANDS AS IDENTIFIED WITH THE EM&CP.

CANADIAN PACIFIC RAILWAY (CPR) - GENERAL CONSTRUCTION NOTES

CONSTRUCTION REQUIREMENTS

1. LOCATES & UTILITIES

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

2. SETBACKS

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

CENTRELINE, AND THEN ONLY WITH EXPRESSED WRITTEN AUTHORIZATION BY CP.

3. CROSSING TRACKS

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

4. HOUSEKEEPING

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

5. WEATHER RESTRICTIONS

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

DISTURBANCE NOTE:

- 1. THE PROPOSED DISTURBANCE FOR THE TRENCH DETAIL WILL BE LIMITED TO THE WIDTH OF THE TRENCH SECTIONS DEPICTED ON C-621.
- 2. AREAS OF THE LIMIT OF WORK ACROSS THE ALIGNMENT HAVE BEEN EXPANDED TO INCLUDE AREAS OFF THE ROADWAY WITHIN LAWN AREAS THAT ARE SUITABLE FOR POTENTIAL TEMPORARY STAGING AREAS DURING CONSTRUCTION. SHOULD THESE AREAS BE UTILIZED AND DISTURBED THE AREAS SHOULD BE RESTORED TO EXISTING CONDITION PER THE PROJECT RESTORATION NOTES AND DETAILS. EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN DEVELOPED TO INCORPORATE THESE POTENTIALLY DISTURBED AREAS.











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CHAMPLAIN HUDSON POWER EXPRESS SEGMENT 6 (PACKAGE 4A) - CP: BALLSTON TO GLENVILLE PACKAGE SPECIFIC NOTES

KIEWIT PROJECT NO. 21162 KC PROJECT NO. 120174 DRAWING NO.

G-003

AS NOTED DATI 0 SH NO.

-- OF --

ISSUED FOR CONSTRUCTION SUBMISSION SUBMITTAL / REVISION DESCRIPTION DB | APP | DRAWN BY: CS | DESIGNED BY: JM | APPROVED BY: SB | REV. NO. EXIST. FIBER OPTIC LINE HANDHOLE EXIST. FIBER OPTIC LINE PEDESTAL EXIST. FIBER OPTIC LINE DOGHOUSE EXIST. FIBER OPTIC LINE MANHOLE EXIST. FIBER OPTIC LINE VAULT EXIST. FIBER OPTIC LINE BORE PIT EXIST. FIBER OPTIC LOCK BOX EXIST. FIBER OPTIC MARKER POST EXIST. FIBER OPTIC BOX EXIST. FIBER STORAGE EXIST. FIRE HYDRANT EXIST. WATER MANHOLE EXIST. WATER MARKER EXIST. SANITARY SEWER MANHOLE EXIST. SANITARY SEWER VENT EXIST. STORM SEWER MANHOLE EXIST. STORM SEWER CATCH BASIN EXIST. CULVERT INVERT EXIST. GAS PIPELINE VENT

EXIST. STRUCTURE POST EXIST. STRUCTURE MAILBOX EXIST. GAS LINE —— G —— G —— EXIST. UNDERGROUND TELE. — — UT — — UT — EXIST. FIBER OPTIC — F0 — F0 — EXIST. OVERHEAD TELE. — — ot — — ot — EXIST. UNDERGROUND ELEC. — — UE — — UE — EXIST. OVERHEAD ELEC. — OE — OE — EXIST. CULVERT — — ST — — ST — EXIST. SANITARY SEWER — — ss — — ss — EXIST. STORM SEWER — — ST — — ST — EXIST. POTABLE WATER LINE — — w — — w — EXIST. FUEL LINE ------ FUEL ------EXIST. RAILROAD TRACK ⊗ CERTIFIED ROUTE MP XX CERTIFIED ROUTE PROVIDED BY CHPE KMZ ⊗ RANDALL PREFERRED MP XX RANDALL PREFERRED PROVIDED BY CHPE KMZ _____ EXIST. CONTOUR, INDEX 140 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 EXIST. GUARDRAIL EXIST. TRAIL EXIST. FENCE EXIST. WALL EXIST. RETAINING WALL EXIST. MILEPOST NUMBER EXIST. MAPPING BOUNDARY EXIST. GROUND CONTROL EXIST. RIGHT-OF-WAY

EXISTING SIGN

⊕XX-##

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).

EXIST. ABUTTER

EXIST. WETLAND FLAG

EXIST. WETLANDS

PEM - PALUSTRINE EMERGENT PSS - PALUSTRINE SCRUB-SHRUB PFO - PALUSTRINE FORESTED PUB - PALUSTRINE UNCONSOLIDATED BOTTOM L1 - LACUSTRINE LIMNETIC :<u>* . . * . . * . . * . .</u> L2 - LACUSTRINE LITTORAL NYSDEC FWW 100-FOOT ADJACENT BUFFER AREA ESTIMATED WETLAND BOUNDARY ESTIMATED AGRICULTURAL LAND BOUNDARY FLOODWAY BOUNDARY 1% ANNUAL CHANCE FLOODPLAIN BOUNDARY 0.2% ANNUAL CHANCE FLOODPLAIN BOUNDARY JD BOUNDARY APPROX. USACE FEDERAL CHANNEL BOUNDARY (TYP.)

	VEG. CLEARING - TYPE I - HAND CUTTING	APP	APPROVED
	VEG. CLEARING — TYPE II — MECHANICAL CLEARING	CL	CENTERLINE
	VEG. CLEARING — TYPE III — MOWING	СМР	CORRUGATED METAL PIPE
		CONC	CONCRETE
	VEG. CLEARING — TYPE IV — MECHANICAL WHOLE—TREE FELLING	DB	DESIGNED BY
WP	PROP. WETLAND PROTECTION FENCE	DEC	NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
——FS——	PROP. COMPOST FILTER SOCK (OR SILT SOCK)	DEG	DEGREES
	CHECK DAM	DR	DRIVE
◆ ~~	SURFACE WATER FLOW	DZ	DEVIATION ZONE
	PROP. TEMPORARY SWALE	Е	EASTING
	STABILIZED CONSTRUCTION ENTRANCE (TYP.)	ELECTRIC	ELECTRIC CABLE
140	PROP. TEMP MAJOR CONTOUR	ELEV	ELEVATION
	PROP. TEMP MINOR CONTOUR	EQNAHD	STATION EQUATION AHEAD
LOW	PROP. LIMITS OF WORK/DISTURBANCE	EQNBK	STATION EQUATION BACK
.~~~	PROP. LIMITS OF CLEARING/LIMITS OF WORK IN CLEARING AREAS	EXIST	EXISTING
	PROP. CONCRETE WASHOUT	FIBER	FIBER OPTIC CABLE
	PROP. TEMP ACCESS ROAD RTE (EXISTING ROAD OR SURFACE)	FT	FEET
		GAS 	GAS PIPE
	PROP. TEMP REFURBISHED ACCESS ROAD	Н	HORIZONTAL DIDECTIONAL DRILLING
	PROP. TEMP ACCESS ROAD OR OFF SITE ACCESS ROAD PROP. WETLAND OR AGRICULTURAL LAND* WORKING SURFACE	HDD	HORIZONTAL DIRECTIONAL DRILLING
	(SEE SHEET C-613) (*AGRICULTURAL LANDS MAY USE WETLAND	HVDC	HIGH-VOLTAGE DIRECT CURRENT TRANSMISSION LINE
	WORKING SURFACE OR OTHER APPROVED MITIGATION METHODS)	INV LOW	INVERT ELEVATION LIMITS OF WORK
<u> </u>	PROP. MILLING & RESURFACING	LT	LEFT
<u>'</u> _	PROP. SPLICE LOCATION	MAX	MAXIMUM
	PROP. SPLICE VAULT	MIN	MINIMUM
	PROP. LINK BOX HANDHOLE	N	NORTHING
.	PROP. FIBER SPLICE HANDHOLE	NO	NUMBER
•	PROP. BORING LOCATION	NY	NEW YORK
XXXXX+XX	PROP. ALIGNMENT STATIONING	NYCDEP	NEW YORK CITY DEPT. OF ENVIRONMENT PROTECTION
	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
	PROP. WORK AREAS	Р#	PACKAGE #
	7' FOUL ZONE: NO VEHICLES, MATERIALS, DISTURBANCE,	PERM	PERMANENT
	PERSONNEL, OR WORK SHALL ENCROACH THE ZONE WITHIN 7FT OF THE NEAREST RAIL WITHOUT CSX COORDINATION AND APPROVAL	PROP.	PROPOSED
~~~~		PVC	POLYVINYL CHLORIDE
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	PROP. SHORING/SHEETING	PVI	POINT OF VERTICAL INTERSECTION
	PROP. TEMP EASEMENT	R	RADIUS
	PROP. PERM EASEMENT	RCP	REINFORCED CONCRETE PIPE
	PROP. TEMP ACCESS EASEMENT	RD	ROAD
SL PM	SPLICE LOCATION POLE MARKER	REV	REVISION
<b>♦</b>	SPLICE LOCATION FOLE MAINLIN	ROW	RIGHT-OF-WAY
UPC PM ♦	UNDERGROUND POWER CABLE POLE MARKER	RT	RIGHT
ΓŽI		RTE	ROUTE
$\swarrow$	PROP. TRANSITION BOX MANHOLE	SEWER	SANITARY SEWER PIPE
A ( ) D ( )	DC CABLE IDENTIFICATION TAGS. SEE SHEET C-807 FOR MORE DETAILS	SH ST	SHEET STREET
A (-) B (+)	DO CABLE IDENTIFICATION TAGS. SEE SHEET C 607 FOR MORE DETAILS	STA	STATION
<b>→</b>	TURBIDITY BARRIER	STORM	STORM DRAIN PIPE
·	. S. Sister - Statistical Control of the Control of	TELECOM	TELECOMMUNICATIONS CABLE
	PROP. TEMPORARY HDD WORK ZONE AREA	TEMP	TEMPORARY
		TR	THERMAL RESISTIVITY
		TYP	TYPICAL
		V	VERTICAL
		WATER	WATERLINE



EXISTING IRON PIPE

EXISTING POST

EXISTING SYMBOL

EXISTING CONCRETE MONUMENT

EXISTING REFLECTOR MARKER

○ IRON PIPE

(SYM.)

CONCRETE BOUNDARY





EXIST. WATERBODY, STREAM, OR STREAM BANK



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	SURVEY LEGEND	DRAWING NO.
	SEGMENT 6 (PACKAGE 4A) - CP: BALLSTON TO GLENVILLE	KC PROJECT NO. 120174
	CHAMPLAIN HUDSON POWER EXPRESS	KIEWIT PROJECT NO. 21162

DB APP DRAWN BY: CS DESIGNED BY: JM APPROVED BY: SB REV. NO.

JM SB

08/03/2023 ISSUED FOR CONSTRUCTION SUBMISSION

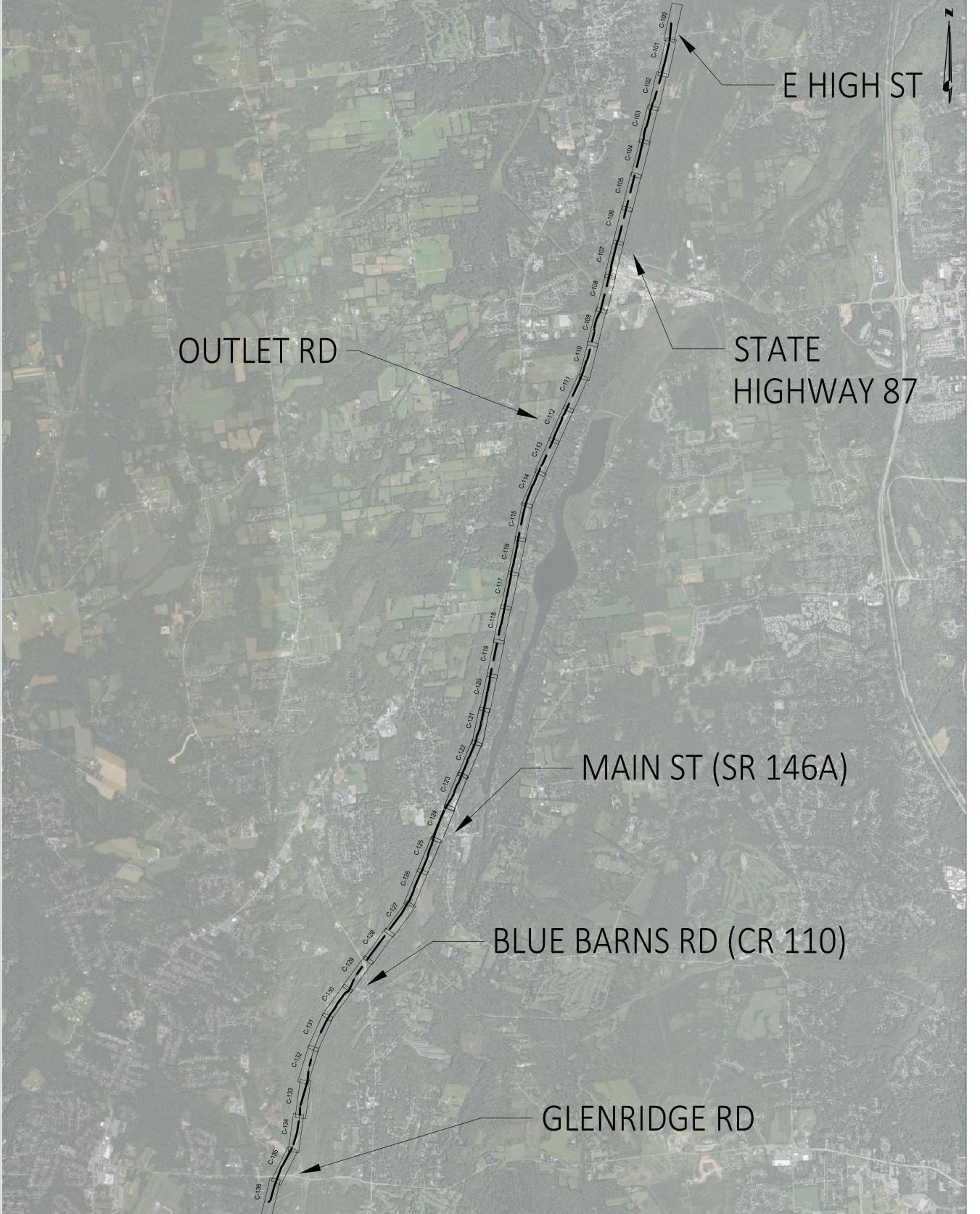
DATE SUBMITTAL / REVISION DESCRIPTION

**G-004** 

-- OF --

AS NOTED DATE

0 SH.NO.



STRUCTURE TABLE								
STRUCTURE NAME	STATION	NORTHING	EASTING	FINISHED GRADE				
LINK BOX HANDHOLE 118	40023+75.47	1517444.2808	668608.0290	293.758				
LINK BOX HANDHOLE 123	40152+36.07	1505058.4821	665341.1796	283.203				
LINK BOX HANDHOLE 128	40293+00.44	1491713.3772	661264.2688	268.869				
LINK BOX HANDHOLE 134	40423+33.21	1479865.7789	656254.9680	262.922				
SPLICE LOCATION 118	40023+76.64	1517439.5166	668620.1884	291.614				
SPLICE LOCATION 119	40048+29.35	1515101.5399	667920.4176	295.908				
SPLICE LOCATION 120	40058+87.02	1514071.0626	667704.0374	295.254				
SPLICE LOCATION 121	40090+68.09	1510986.9424	666924.6549	295.745				
SPLICE LOCATION 122	40121+96.97	1507958.6906	666162.5880	292.953				
SPLICE LOCATION 123	40152+36.07	1505054.6336	665353.5969	281.395				
SPLICE LOCATION 124	40184+91.36	1502078.7425	664073.2183	283				
SPLICE LOCATION 125	40215+31.37	1499300.9429	662873.8517	283.27				
SPLICE LOCATION 126	40247+22.19	1496190.9185	662190.9883	280.723				
SPLICE LOCATION 127	40275+98.70	1493377.3441	661621.0664	268.792				
SPLICE LOCATION 128	40293+01.61	1491709.6030	661276.7705	268.869				
SPLICE LOCATION 129	40319+23.48	1489159.7843	660728.4528	270.727				
SPLICE LOCATION 130	40344+13.51	1486866.5057	659794.8760	282.414				
SPLICE LOCATION 131	40374+35.73	1484095.5825	658625.8141	274.992				
SPLICE LOCATION 133	40405+58.89	1481277.5101	657329.8533	270.462				
SPLICE LOCATION 134	40423+34.34	1479857.0629	656264.6935	262.174				
SPLICE LOCATION 135	40454+23.02	1477322.7275	654548.6675	257.993				
SPLICE LOCATION 136	40479+98.58	1474985.9563	653510.1703	261.972				
SPLICE LOCATION 137	40506+29.94	1472411.8251	653013.6946	233.75				
SPLICE LOCATION 138	40537+15.11	1469547.2358	651929.4412	235.373				

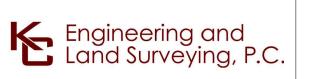
STRUCTURE TABLE									
STRUCTURE NAME	STATION	NORTHING	EASTING	FINISHED GRADE					
FIBER HANDHOLE 118	40024+37.21	1517381.3689	668603.2283	294.041					
FIBER HANDHOLE 119	40048+89.92	1515042.8215	667905.5535	297.395					
FIBER HANDHOLE 120	40059+47.59	1514012.3381	667689.1973	295.605					
FIBER HANDHOLE 121	40091+28.66	1510928.2220	666909.7986	295.995					
FIBER HANDHOLE 122	40122+57.54	1507899.9396	666147.8530	293.054					
FIBER HANDHOLE 123	40152+96.64	1504996.7834	665335.6484	283.221					
FIBER HANDHOLE 124	40185+51.93	1502023.4894	664048.4012	283					
FIBER HANDHOLE 125	40215+91.94	1499243.6166	662854.2942	284.642					
FIBER HANDHOLE 126	40247+82.77	1496131.5061	662179.2001	282					
FIBER HANDHOLE 127	40276+59.27	1493318.0278	661608.8039	269.882					
FIBER HANDHOLE 128	40293+62.18	1491650.2800	661264.5406	270					
FIBER HANDHOLE 129	40319+84.06	1489102.9967	660707.3823	270.999					
FIBER HANDHOLE 130	40344+74.09	1486810.5949	659771.5758	282.583					
FIBER HANDHOLE 131	40374+96.30	1484037.4804	658608.6985	275.583					
FIBER HANDHOLE 133	40406+19.52	1481229.0028	657293.4789	274.292					
FIBER HANDHOLE 134	40423+94.87	1479808.6413	656228.3833	263.777					
FIBER HANDHOLE 135	40454+83.63	1477272.8624	654514.2006	258					
FIBER HANDHOLE 136	40480+59.06	1474927.2322	653495.7065	264.034					
FIBER HANDHOLE 137	40506+90.52	1472352.1140	653003.4330	234.768					
FIBER HANDHOLE 138	40537+75.62	1469488.8681	651913.4835	236					

PLAN AND PROFILE KEY MAP

SCALE: 1" = 3000'









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 6 (PACKAGE 4A) - CP: BALLSTON TO GLENVILLE
		,
		KFY PLAN

KIEWIT PROJECT NO. KC PROJECT NO. 120174 DRAWING NO.

**G-005** 

08/03/2023 ISSUED FOR CONSTRUCTION SUBMISSION AS NOTED DATE 0 SH.NO. DB APP DRAWN BY: CS DESIGNED BY: JM APPROVED BY: SB REV. NO. SUBMITTAL / REVISION DESCRIPTION

# PACKAGE 4A - EM&CP NOISE SENSITIVE AREAS NOTE

- 1.THE STORMWATER POLLUTION PREVENTION PLAN INCLUDED IN APPENDIX G OF THE EM&CP DESCRIBES THE EROSION AN SEDIMENT CONTROLS THAT WILL BE FOLLOWED FOR THIS PACKAGE.
- 2.THE EROSION AND SEDIMENT CONTROL PLANS CAN BE FOUND ON SHEET C-400 TO SHEET C-418 FOR THIS PACKAGE.

## PACKAGE 4A - EM&CP EROSION AND SEDIMENT CONTROL NOTES

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

## PACKAGE 4A - CULTURAL RESOURCES

Chapter 4 – Construction Methods							
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 Chapter 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 and Temporary Drainage	4.12						
Rock Removal	4.13						
Inadvertant Damage to Existing Utilities	4.14						
Note: The Table above summarizes the construction methods and associated s	subsections that summarize the measures and standards that will						

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

## PACKAGE 4A - CONSTRUCTION METHODS

	Table 4.1 - HDD Locations									
Segment/ Package	HDD Designation	Length (feet)	Reason for HDD	Sheet	Location (Approximate- see Drawings for Details)					
S6/P4A	HDD-51	1097/2018	Road/Rail/Wetland	C-100 to C-101	40001+97 to 40022+12					
S6/P4A	HDD-52	2701	Wetland	C-104 to C-106	40060+84 to 40087+80					
S6/P4A	HDD-53	815	Road (Rail Bridge)/Stream	C-107	40098+47 to 40106+61					
S6/P4A	HDD-53A	624/627	Culvert/Stream (Rail Bridge)	C-115 to C-116	40227+56 to 40233+76					
S6/P4A	HDD-59	1124/1159	Culvert	C-127 to C-128	40409+11 to 40420+63					
S6/P4A	HDD-59A	1826	Road/Rail	C-128 to C-130	40425+37 to 40443+60					
S6/P4A	HDD-59B	829	Rail/Wetland	C-133	40489+8240498+10					
S6/P4A	HDD-60	1332/1335	Wetland/Streams (Rail Bridge)	C-134 to C-135	40511+60 to 40524+98					
S6/P4A	HDD-61	684/689	NYSDOT Road	C-135 to C-136	40527+60 to 40534+42					
Note: Table	4.1 describes the locati	ions of HDD activi	ty within this Package. HDD will be p	performed in accord	dance with the Horizontal					

Direction Drilling Site Investigation and Planning Report and Inadvertent Release and Contingency Plan in Appendix J, the specifications described in Section 4.3.1, and the BMP document.

## PACKAGE 4A - HDD LOCATIONS

HDD#/ Trench	Structure	Parcel ID	Sheet Number	Location (Approximate – see Drawings for Details)	Notes
HDD#51	Private Residence	216.42-4-3	C-100	40007+00	S, Side of East High Street
HDD#51	Shed - Private Residence	216.42-4-21	C-101	40009+50	E. Side of Kaleen Dr.
HDD#51	Private Residence	216.42-4-7	C-101	40010+50	E. Side of Kaleen Dr.
HDD#51	Private Residence	216.42-4-8	C-101	40011+50	E. Side of Kaleen Dr.
HDD#51	Private Residence	216.42-4-9	C-101	40012+50	E. Side of Kaleen Dr., Residence under construction
HDD#51	Private Residence	216.42-4-10	C-101	40014+00	E. Side of Kaleen Dr.
HDD#51	Shed – Private Residence	216.42-4-11	C-101	40015+25	E. Side of Kaleen Dr.
HDD#51	Railroad Signal	2391-16	C-101	40018+00	
HDD#51	Propane Tank – Railroad	2391-16	C-101	40019+25	
Trench	Electrical Substation	239.1-5	C-124	40354+00	N. Side of NYS Rt. 146A,W. of Railroad Tracks
Trench	Private Residences	257.12-4.1	C-124	40355+00	N. Side of NYS Rt. 146A,W. of Railroad Tracks
Trench	Private Business	257.12.1-33	C-124	40357+00	S. Side of NYS Rt. 146A,W. of Railroad Tracks
Trench	Railroad - Signal House	2391-16	C-124	40357+00	S. Side of NYS Rt. 146A, W. of Railroad Tracks
Trench	Private Residence	257.16-1-10	C-124	40365+00	E. Side of Firemans Ln.
Trench	Private Residence and Outbuildings	257-5-7	C-125	40370+00	E. Side of Firemans Ln.
Trench	Private Residence	2632-70	C-129	40429+50	N. Side of Blue Barns Rd.
Trench	Railroad - Signal House	2391-3	C-130	40448+25	S. Side of Rustic Ridge Rd.

Table 4.2 - Structures within 100 Feet of HDD or Trenching Operations

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

## PACKAGE 4A - STRUCTURES

Table 4.5B – Facility ROW Ownership and Easements

Segment/ Package	Parcel ID	Description	Sheet Number   Location (Approximate – See Drawings for Details)		Comments
S6/P4A	2162-1	Permanent & Temporary	C-100	40000+00 to 40005+71	Outside Deviation Zone
S6/P4A	East High Street ROW	Permanent & Temporary	C-100	40005+71to 40006+45	Public; Outside Deviation Zone
S6/P4A	216.42-1-4.1	Permanent	C-100	40006+45 to 40007+77	Outside Deviation Zone
S6/P4A	216.42-4-3	Permanent	C-100 & C-101	40007+77 to 40008+02, 40008+02 to 40009+10	Private
S6/P4A	216.00-2-31	Temporary Construction	C-101 & C-102	40021+75 to 40035+00	Outside Deviation Zone
S6/P4A	2164-6	Temporary Construction	C-101 & C-102	40022+50 to 40024+50	Private
S6/P4A	2164-5	Temporary Construction	C-102	40023+50 to 40024+50 40023+00 to 40035+00, 40024+00 to	Private
S6/P4A	216.00-2-31	Permanent & Temporary	C-102	40026+36	Outside Deviation Zone
S6/P4A	216.00-2-32	Permanent & Temporary	C-102	40034+60 to 40035+60, 40030+80 to 40035+60	Outside Deviation Zone
S6/P4A	2162-29.2	Permanent & Temporary	C-102 & C-103	40035+60 to 40038+90	Outside Deviation Zone
S6/P4A	Zepko Lane ROW	Permanent & Temporary	C-103	40038+90 to 40039+12	Public; Outside Deviation Zone
S6/P4A	2162-29.1	Permanent & Temporary	C-103	40039+12 to 40039+83	Outside Deviation Zone
S6/P4A	216.00-2-52	Permanent & Temporary	C-103 & C-104	40039+83 to 40053+12, 40045+66 to 40050+50	Outside Deviation Zone
S6/P4A	216.00-2-52	Temporary Construction (Access Rd)	C-103	40051+50 to 40052+00	Private
S6/P4A	2162-38	Permanent & Temporary	C-104	40053+12 to 40062+00, 40056+89 to 40062+00	Outside Deviation Zone
S6/P4A	228.00-2-1	Permanent	C-104 & C-105	40064+48 to 40077+13	Outside Deviation Zon
S6/P4A	28.00-2-32	Permanent & Temporary	C-105 & C-106	40077+13 to 40082+96, 40082+96 to 40083+83	Outside Deviation Zon
S6/P4A	2282-29.1	Permanent & Temporary	C-106	40083+83 to 40090+19, 40087+38 to 40090+19	Outside Deviation Zon
S6/P4A	2282-41	Permanent & Temporary	C-106 & C-107	-106 & C-107 40090+19 to 40101+85, 40090+19 to 40093+55, 40090+19 to 40101+00	
S6/P4A	2282-41	Temporary Construction (Access Rd)	C-107	40100+50 to 40101+00	Private
S6/P4A	Rt 67 ROW	Permanent	C-107	40101+85 to 40102+91	Public; Outside Deviation Zone
S6/P4A	228.00-2-41	Permanent	C-107	40102+91 to 40103+45	Outside Deviation Zon
S6/P4A	228.00-3-18	Permanent & Temporary	C-107	40103+45 to 40108+92, 40106+36 to 40108+02, 40106+36 to 40108+92	Outside Deviation Zon
S6/P4A	2283-16.1	Permanent & Temporary	C-107 & C-108	40108+92 to 40127+80	Outside Deviation Zone
S6/P4A	2391-15	Permanent & Temporary	C-108 & C-109	40127+80 to 40129+50	Outside Deviation Zone
S6/P4A	2283-30.2	Permanent & Temporary	C-109	40129+50 to 40130+00	Private
S6/P4A	2283-58.11	Permanent & Temporary	C-109	40130+00 to 40136+82, 40130+00 to 40139+70	Outside Deviation Zon
S6/P4A	2283-30.114	Temporary Construction (Access Rd)	C-109	40132+00 to 40143+00	Private
S6/P4A S6/P4A	2283-58.11 2391-15	Temporary Construction (Access Rd)  Permanent & Temporary	C-109 C-109 & C-110	40132+00 to 40143+00 40136+82 to 40150+25, 40136+82 to	Private Outside Deviation Zon
				40142+33	
S6/P4A	228.00-3-27.1	Temporary Construction	C-109 & C-110	40139+70 to 40144+96	Private
S6/P4A	228.00-3-28.1	Temporary Construction	C-110	40144+96 to 40146+68 40149+00 to 40158+82, 40146+68 to	Private
S6/P4A	239.00-1-6.1	Permanent & Temporary	C-110	40158+82	Outside Deviation Zon
S6/P4A	2391-15	Temporary Construction	C-110	40149+00 to 40153+35	Private
S6/P4A	239.00-1-10.31	Permanent & Temporary	C-111	40158+82 to 40160+20, 40158+82 to 40160+20	Outside Deviation Zon
S6/P4A	239.00-1-10.321	Permanent & Temporary	C-111 & C-112	40160+20 to 40176+50	Outside Deviation Zon
S6/P4A	Outlet Road ROW	Permanent & Temporary	C-112	40176+50 to 40177+03	Public; Outside Deviation Zone
S6/P4A	2391-15	Permanent	C-111 & C-112	40169+28 to 40175+50	Outside Deviation Zon
S6/P4A	2391-15	Temporary Construction	C-112	40173+63 to 40177+55	Private
S6/P4A	239.00-1-38	Permanent & Temporary	C-113	40192+88 to 40193+19	Outside Deviation Zon

procedures					
S6/P4A	Connoly Road ROW	Temporary Construction	C-113	40193+19 to 40193+43	Public
S6/P4A	239.00-1-19.21	Temporary Construction	C-113	40193+43 to 40193+57	Private
S6/P4A	239.00-1-64	Temporary Construction	C-113	40193+57 to 40193+75	Private
S6/P4A	239.00-1-91	Permanent & Temporary	C-113 & C-114	40193+75 to 40206+43	Outside Deviation Zone
S6/P4A	2391-15	Permanent & Temporary	C-114	40205+78 to 40209+80	Outside Deviation Zone
S6/P4A	239.17-3-1	Permanent & Temporary	C-114	40206+43 to 40214+21	Outside Deviation Zone
S6/P4A	239.00-1-22.1	Permanent & Temporary	C-114 & C-115	40218+71 to 40220+64	Private
S6/P4A	2391-15	Temporary Construction	C-115	40219+19 to 40226+96	Private
S6/P4A	239.00-1-22.1	Temporary Construction	C-115	40225+65 to 40226+68	Private
S6/P4A	249.00-4-2	Temporary Construction	C-115 & C-116	40226+68 to 40234+55	Private
S6/P4A	White's Beach Road ROW	Temporary Construction	C-116	40234+55 to 40235+19	Public
S6/P4A	249.00-4-4.2	Permanent & Temporary	C-116	40235+19 to 40239+65	Outside Deviation Zone
S6/P4A	2391-15	Temporary Construction	C-116	40238+62 to 40241+19	Private
S6/P4A	248.00-2-14.211	Permanent & Temporary	C-116 & C-117	40239+65 to 40251+20	Outside Deviation Zone
S6/P4A	248.00-2-86.1	Permanent & Temporary	C-117 to C-119	40251+20 to 40291+15	Outside Deviation Zone
S6/P4A	2391-15	Temporary Construction	C-118	40265+98 to 40277+61, 40274+33 to 40277+41	Private
S6/P4A	2391-15	Temporary Construction	C-119	40283+51 to 40287+51, 40288+85 to 40291+14	Private
S6/P4A	248.00-2-86.1	Permanent & Temporary	C-119 to C-120	40287+44 to 40292+26, 40288+85 to 40302+50	Outside Deviation Zone
S6/P4A	257.00-4-1.23	Permanent & Temporary	C-120 to C-121	40302+50 to 40319+50	Outside Deviation Zone
S6/P4A	257.00-4-1.1	Permanent & Temporary	C-121 to C-123	40319+50 to 40338+63	Outside Deviation Zone
S6/P4A	257-4-5	Permanent & Temporary	C-123	40338+63 to 40347+25	Outside Deviation Zone
S6/P4A	257.12-1-28	Permanent & Temporary	C-123	40347+25 to 40349+00	Outside Deviation Zone
S6/P4A	257.12-1-29	Permanent & Temporary	C-123	40349+00 to 40350+75	Outside Deviation Zone
S6/P4A	257.12-1-84	Permanent & Temporary	C-123	40350+75 to 40350+78	Outside Deviation Zone
S6/P4A	RT 146A ROW	Permanent & Temporary	C-123	40350+78 to 40355+75	Public; Outside Deviation Zone
S6/P4A	257.12-1-33	Temporary Construction	C-123	40355+75 to 40357+36	Private
S6/P4A	2574-6	Temporary Construction	C-123 to C-124	40357+36 to 40362+00	Public
S6/P4A	257.00-5-7	Temporary Construction	C-124 to c-125	40371+00 to 40377+00	Outside Deviation Zone
S6/P4A	257.00-5-3.1	Temporary Construction	C-125	40376+91 to 40377+38	Private
S6/P4A	2572-1	Permanent & Temporary	C-125 to C-127	40377+00 to 40397+00	Outside Deviation Zone
S6/P4A	2631-2	Permanent & Temporary	C-127	40397+00 to 40410+00	Outside Deviation Zone
S6/P4A	257.00-5-55	Permanent & Temporary	C-127 to C-128	40410+00 to 40414+75	Outside Deviation Zone
S6/P4A	263.00-2-72	Permanent & Temporary	C-128	40414+75 to 40423+37	Outside Deviation Zone
S6/P4A	263.00-2-70	Permanent & Temporary	C-128 to C-129	40423+37 to 40430+00	Outside Deviation Zone
S6/P4A	Blue Barn Rd	Permanent & Temporary	C-129	40430+00 to 40431+00	Public; Outside Deviation Zone
S6/P4A	263.00-1-42	Permanent & Temporary	C-129 roC-130	40431+00 to 40436+50	Outside Deviation Zone
S6/P4A	2631-2	Permanent & Temporary	C-130	40436+50 to 40440+00	Outside Deviation Zone
S6/P4A	263.00-1-9.11	Permanent & Temporary	C-130	40441+00 to 40443+00	Outside Deviation Zone
S6/P4A	263.00-1-9-3	Permanent & Temporary	C-130	40443+00 to 40444+10	Outside Deviation Zone
S6/P4A	263.00-1-9-4	Permanent & Temporary	C-130	40444+10 to 40445+85	Outside Deviation Zone
S6/P4A	263.11-1-1	Permanent & Temporary	C-130	40445+85 to 40447+85	Outside Deviation Zone Public; Outside
S6/P4A	Rustic Bridge Rd	Permanent & Temporary	C-130 C-130	40447+85 to 40448+25	Deviation Zone
S6/P4A S6/P4A	263.11-1-10 263.10-1-18	Temporary Construction Permanent & Temporary	C-130 to C-131	40448+25 to 40450+00 40452+00 to 40466+25	Private Outside Deviation Zone
S6/P4A	2642-15	Permanent & Temporary	C-130 to C-131	40466+25 to 40481+50; 40485+50 to	Outside Deviation Zone
S6/P4A	231-21		C-132 to C-134	40493+50 40495+00 to 40513+50	Outside Deviation Zone
S6/P4A S6/P4A	23.00-1-19.1	Permanent & Temporary Permanent & Temporary	C-132 to C-134	40495+00 to 40513+50 40513+50 to 40518+00	Outside Deviation Zone Outside Deviation Zone
S6/P4A S6/P4A	23.00-1-19.1	Permanent & Temporary Permanent & Temporary	C-133 to C-134	40513+50 to 40518+00 40518+00 to 40520+00	Outside Deviation Zone Outside Deviation Zone
S6/P4A S6/P4A	23.00-1-2.2	Permanent & Temporary  Permanent & Temporary	C-135	40518+00 to 40520+00 40520+00 to 40527+50	Outside Deviation Zon
S6/P4A S6/P4A	23.09-3-4.13.1	Permanent & Temporary  Permanent & Temporary	C-135	40528+50 to 40527+50 40528+50 to 40531+00	Outside Deviation Zon
S6/P4A	23.09-3-4.3	Permanent & Temporary	C-135	40532+30 to 40531+00 40532+00 to 40540+50	Outside Deviation Zon
S6/P4A	23.13-1-18.11	Permanent & Temporary	C-135	40540+50 to 40543+00	Outside Deviation Zon
				ruction Zone will be located. Section 4	
noic.	Table 1.3D Summariz	procedures that will be follow			., sommuizes die

Table 4.5A – CC 140 Waivers Requested for Segment 6 - Package 4A

Note: Table 4.4A summarizes the easements that are in place along this Segment that CHPE is seeking

waivers per CC 140. Section 4.7 summarizes the Certificate Holders justification for seeking waviers per CC 140.

PACKAGE 4A - WAIVERS REQUESTED AND EASEMENTS

C-115

Description

Permanent

Parcel ID

239.00-1-22.1

Package

Location (Approximate –

See Drawings for Details)

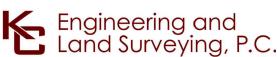
40219+19 to 40225+65

## PACKAGE 4A - FACILITY ROW OWNERSHIP AND EASEMENTS

ISSUED FOR CONSTRUCTION SUBMISSION

SUBMITTAL / REVISION DESCRIPTION

Engineering and Land Surveying, P.C.



CHAMPLAIN HUDSON POWER EXPRESS SEGMENT 6 (PACKAGE 4A) - CP: BALLSTON TO GLENVILLE EM&CP DATA TABLES (1 OF 5)

KIEWIT PROJECT NO. 21162 KC PROJECT NO. 120174 DRAWING NO.

**G-006** 

**Power Express** 



FOR INFORMATION SEE THE ENVIRONMENTAL MANAGEMENT AND CONSTRUCTION PLAN NARRATIVE.

DB APP DRAWN BY: CS DESIGNED BY: JM APPROVED BY: SB REV. NO.

AS NOTED DATE

	Table 4.7 – Access Roads									
Segment/ Package	Sheet Number	Location (Approximate – see Drawings for Details)	Access Road Description	Parcel ID	Type of Access Road	Impacts to Environmentally Sensitive Areas	Impacts to Agricultural Land	Access Road Crosses Railroad		
S6/P4A	C-100	40000+00 to 40010+00	Access Road on west side of RR tracks north of East High Drive.	216.33-2-26 216.41-1-12.5	Type 3	No	No	No		
S6/P4A	C-102 to C- 104	40020+70 to 40062+00	Existing access road north west of RR tracks starting at HDD#51 work zone and ending at HDD#52 work zone.	2162-31, 2391-16, 2162-32, 2162- 29.2, 2162-29.1, 2162-52, 2162-38	Type 3 and Type 4	Yes - Wetland FA- DT, Wetland FA- DU, State Wetland Buffer	No	No		
S6/P4A	C-104/ C- 201	40052+00	Access Drive CP Rail MP 30.55	2162-52, 2162- 99.1	Type 1, Type 3 and Type 4	Yes - State Wetland Buffer	No	No		
S6/P4A	C-106 to C- 107	40089+00 to 40101+00	Refurbished access road located northwest of RR tracks starting at HDD#52 work zone and ending at NYS Route 67.	2282-29.1, 2391- 16, 2282-41	Type 3 and Type 4	Yes - Wetland C- CP-F	No	No		
S6/P4A	C-107/C- 202	40101+00	Perpendicular access road	2282-41	Type 3	No	No	No		
S6/P4A	C-107 to C- 112	40107+00 to 40176+50	Access road located northwest of RR tracks starting at HDD#53 ending at Outlet Road.	2283-18, 2283- 16.1, 2281-1, 239 1-15, 2391-16, 239 1-6.1, 2391-10.31, 2391-10.321	Type 3 and Type 4	Yes - Wetland C- CP-D, Wetland C- CP-B, Stream C-CP- S4, Stream C-CP- S3, State Wetland Buffer	No	No		
S6/P4A	C-109/C- 203	40132+00	Access Drive CP Rail MP 29.06	2283-58.11, 2283- 30.114	Type 1 and Type 2	No	No	No		
S6/P4A	C-112 to C- 113	40177+00 to 40200+75	Access road located northwest of RR tracks starting at Outlet Road and ending at Connelly Road	2391-80, 2391-38	Type 3 and Type 4	Yes - Wetland P4A-M	No	No		
S6/P4A	C-113 to C- 115	40201+00 to 40225+25	Access road located northwest of RR Tracks starting at Connelly Road to the work area for HDD#53A	2391-91, 239.17-3- 1, 2391-22.1	Type 3	No	No	No		
S6/P4A	C-116	40235+75 to 40242+55	Access Road located northwest of RR Tracks starting at the work area for HDD#53A to Whites Beach Road	2391-22.1, 2494-2	Type 3	No	No	No		
S6/P4A	C-116 to C- 124	40242+88 to 40355+00	Access road located on northwest side of RR tracks starting at Whites Beach Road and ending at Main Street NYS Route 146A	2494-4.2, 248.2- 14.211, 2391-15, 2482-86.1, 2574- 1.23, 2574-1.1, 2574-5, 257.12-1- 28, 257.12-1-29, 257.12-1-84	Type 3 and Type 5	No	Yes (248.2-14.211 and 2482-86.1)	No		
S6/P4A	C-124 to C- 127	40349+50 to 40406+50	Access road located on west side of RR tracks starting at Main Street NYS Route 146A and ending at HDD#59 work zone.	239-1-15, 2631-2, 257.00-5-7, 257.00-5- 3.1, 257.00-2-1	Type 1, Type 2 and Type 3	No	No	No		
S6/P4A	C-128 to C- 129	40422+00 to 40430+25	Existing access road located on northwest side of RR tracks starting at HDD#59 work zone and ending at Blue Barn Road	2632-71, 2632-70	Type 3	No	No	No		
S6/P4A	C-130	40444+50 to 40447+50	Access road located on east side of RR tracks starting at HDD#59A work area and ending at Rustic Bridge Road	263.00-1-9.4, 263.11- 1-1	Type 3	No	No	No		
S6/P4A	C-130 to C- 134	40448+00 to 40509+50	Access road located on east side of RR tracks starting at Rustic Bridge Road crossing to the west side of the tracks at approximately 40493+00 and ending at HDD#60 work zone			Yes – Wetland FA- EF, Wetland FA- EE, Stream FA-S- ED,	No	No		
S6/P4A	C-135	40526+50 to 40531+00	Access road located on the west side of the RR tracks starting a HDD#60 work zone and ending at Glenridge Road	231-11.1, 231- 11.2, 2309-4-13.1	Type 1 and Type 3	No	No	No		
S6/P4A	C-135 to C- 136	40531+50 to 40542+97	Access road located on the west side of the RR tracks starting at Glenridge Road and ending at end of Segment 6	23.09-3-4.3, 23.13-1- 18.11	Type 4	Wetland C-CP-O, State Wetland Buffer	No	No		

Notes: Table 4.5 identifies each proposed access road in Segment 6 – Package 4A, their locations and any sensitive areas that are crossed. For access roads that are perpendicular to the alignment, the disturbance zone in which sensitive areas was evaluated begins at the end of the Railroad or Road ROW.

PACKAGE 4A - ACCESS ROADS

Method Type	Description	le 4.6 – Access Road Types Dimensions	Construction Details
Construction Entrance	Construction entrance	16' standard or 20' perpendicular; 50' minimum length	Placed on geofabric     12" thick minimum
Type 1	Paved or existing gravel roads requiring minor or no maintenance (e.g., Parking lots, Local/state roads, Railroad or private gravel roads)	14' standard, 16' splice access, 20' perpendicular	• 0" to 6" of gravel
Type 2	Existing railroad and gravel access roads	14' standard, 16' splice access, 20' perpendicular	<ul> <li>Spot fill &amp; re-grading required</li> <li>Soil stripping, filter fabric, and gravel surfacing required in new area</li> <li>6" of gravel</li> </ul>
Type 3	Proposed new roads (roads shown in places without existing access)	14' standard, 16' splice access, 20' perpendicular	<ul> <li>Soil stripping on average to be 4"</li> <li>Cut slopes based on type of material encountered but no steeper than ½ h to 1 v</li> <li>Fill slopes based on type of material encountered but no steeper than 1 h to 1 v</li> <li>Placed on geo-fabric</li> <li>12" of gravel</li> </ul>
Type 4	Temporary construction access through wetlands, streams, or marshy terrain	14' standard, 16' splice access, 20' perpendicular	<ul> <li>Utilizing standard timber 8''x4'x16' crane mats</li> <li>3-ply matting may be used as a substitute (except when crossing streams)</li> </ul>
Туре 4А	Temporary construction access through wetlands, streams, or marshy terrain when matting is not practical (e.g., sinking mats). Used only in extreme cases; typically, will only be implemented after a Type 4 road has been attempted and determined to be unsuitable.	14' standard, 16' splice access, 20' perpendicular	<ul> <li>Filter fabric</li> <li>2' of rip-rap</li> <li>4" of gravel to top off</li> </ul>
Type 5	Temporary construction access through agricultural fields	14' standard, 16' splice access, 20' perpendicular	3-ply mats or timber matting; requires mowing to establish road

Locations

Segment/ Package	Sheet Number	Location (Approximate- see Drawings for Details)	Staging Area Description		
S6/P4A	C-100	40001+97	HDD-51 Entry Area		
S6/P4A	C-101	40022+12	HDD-51 Exit Area		
S6/P4A	C-104	40060+84	HDD-52 Entry Area		
S6/P4A	C-106	40087+80	HDD-52 Exit Area		
S6/P4A	C-107	40098+47	HDD-53 Entry Area		
S6/P4A	C-107	40106+61	HDD-53 Exit Area		
S6/P4A	C-115	40227+56	HDD-53A Entry Area		
S6/P4A	C-116	40233+76	HDD-53A Exit Area		
S6/P4A	C-127	40409+11	HDD-59 Entry Area		
S6/P4A	C-128	40420+63	HDD-59 Exit Area		
S6/P4A	C-128	40425+37	HDD-59A Entry Area		
S6/P4A	C-130	40443+60	HDD-59A Exit Area		
S6/P4A	C-133	40489+82	HDD-59B Entry Area		
S6/P4A	C-133	40498+10	HDD-59B Exit Area		
S6/P4A	C-134	40511+60	HDD-60 Entry Area		
S6/P4A	C-135	40524+98	HDD-60 Exit Area		
S6/P4A	C-135	40527+60	HDD-61 Entry Area		
S6/P4A	C-136	40534+42	HDD-61 Exit Area		
S6/P4A	_		and Segment 4& 5-Package 3 n yards utilized for material and t storage.		
Note: Table 5.2 summarizes the locations of where construction					

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

Table 8.2 – Tree and Vegetation Clearing Methods

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

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

PACKAGE 4A - TREE AND VEGETATION CLEARING METHODS

# PACKAGE 4A - ACCESS ROAD TYPES

describes the procedures to be followed during the construction of all access roads

# PACKAGE 4A - CONSTRUCTION MATERIALS AND EQUIPMENT STAGING LOCATIONS

	Table 7.1 - Agricultural Lands						
Segment/ Package	Parcel ID	Sheet Number	Station (Approximate – See Drawings for Details)	Location Description	Anticipated Impacts to Agricultural Activities/Land		
S6/P4A	2391-6.1	C-110 to C- 111	40139+00 to 40151+00	Northwest of RR ROW	The construction will take place within the public utility ROW (2391-15) or within areas of the parcel not utilized for agriculture activities and therefore no impacts to these agricultural lands are anticipated. These agricultural lands are registered with a Saratoga County Agricultural District.		
S6/P4A	2391-6.2	C-110 to C- 112	40139+00 to 40168+00	East of RR ROW and north of Powers Lane	No impacts because all of construction activity is anticipated to be within the RR ROW or the northwest side of the RR ROW and therefore no impacts to the ag lands on the east side of the RR ROW are anticipated. These agricultural lands are registered with a Saratoga County Agricultural District.		
S6/P4A	2482-14.211	C-117	40247+50 to	West of RR ROW	The construction will take place within the public utility ROW (2391-15) or within areas of the parcel not utilized for agriculture activities and therefore no impacts to these agricultural lands are anticipated. These agricultural lands are registered with a Saratoga County Agricultural District.		
S6/P4A	2482-86.1	C-117 to C- 120	40251+00 to 40294+00	West of RR ROW	The majority of construction will take place within the public utility ROW (2391-15) or the RR ROW with the exception of the work zone for splice location 127, HDD#54 work zones, and HDD#55 work zones. All impacts associated with construction activity will be fully restored in accordance with Section 14.5. These agricultural lands are registered with a Saratoga County Agricultural District.		
S6/P4A	2482-86.1	C-117 to C- 118	40251+00 to 40266+00	East of RR ROW	No impacts because all of construction activity is anticipated to be within the public utility ROW or RR ROW or the northwest side of the RR ROW and therefore no impacts to the agricultural lands on the east side of the RR ROW are anticipated. These agricultural lands are registered with a Saratoga County Agricultural District.		
Note: Tab	Note: Table 7.1 summarizes the agricultural lands identified in this Package. Section 7.1 describes the procedures to be followed for all construction related activity within agricultural lands.						

PACKAGE 4A - AGRICULTURAL LANDS

	Table 7.2 – Recreational Areas					
Segment/ Package	Recreational Area	Location (Approximate – see Drawings for Details)	Anticipated Impacts			
S6/P4A	Zim Smith Mid-County Trail	40013+00 to 40031+00 (C-101 to C-103)	None			
S6/P4A	Veteran's Bike Path	40169+00 to 40349+25 (C-112 to C-124)	Construction activity associated with the installation of the alignment via HDD, trenching, and the installation of an access road will be adjacent to the this recreational area. Access to the recreationial area will be maintained throughout construction.			
S6/P4A	Balls ton Lake Fire Department Memorial Park	40357+50 to 40368+50 (C-124 to C-125)	Construction activity associated with the installation of the alignment via trenching, and the utilization of Fireman's Lane as an access road will be adjacent to the this recreational area. Access to the recreational area will be maintained throughout construction.			
Note: Tab	Note: Table 7.2 identifies the recreational areas within this Package. Section 7.2 describe the procedures to					

be followed within recreational areas.

PACKAGE 4A - RECREATIONAL AREAS

NOTE: REFER TO EM&CP APPENDIX R

PACKAGE 4A - CO-LOCATED UTILITIES







					SEGMENT 6
					OLOWILINI
0	08/03/2023	ISSUED FOR CONSTRUCTION SUBMISSION	JM	SB	

CHAMPLAIN HUDSON POWER EXPRESS SEGMENT 6 (PACKAGE 4A) - CP: BALLSTON TO GLENVILLE **EM&CP DATA TABLES** (2 OF 5)

KIEWIT PROJECT NO. 21162 KC PROJECT NO. 120174 DRAWING NO.

AS NOTED DATE

**G-007** 

Engineering and Land Surveying, P.C. FOR INFORMATION SEE THE ENVIRONMENTAL MANAGEMENT AND CONSTRUCTION PLAN NARRATIVE. DB APP DRAWN BY: CS DESIGNED BY: JM APPROVED BY: SB SCALE REV. NO. DATE SUBMITTAL / REVISION DESCRIPTION

Table 8.3 – Tree and Vegetation Disposal Methods					
Method Type	Method Title	Method Description			
Type A	Construction Use	Logs may be utilized as needed during construction for wetland access, cribbing, retaining walls, or other uses. Following use, any logs unsuitable for firewood, saw logs, or chipping will be transported off the ROW to an approved disposal site (Appendix L).			
Type B	Log Piles	Logs not needed for construction will be removed from the ROW to an approved disposal area (Appendix L).			
Type C	Sale	Where sufficient merchantable volume exists on the site, logs may be sold to a third party. Where appropriate and practical, and with the agreement of landowners, unsold logs will be hauled to accessible locations for salvage by the general public in accordance with the substantive requirements of 6 NYCRR Part 192.5, firewood restrictions to protect forests from invasive species.			
Type D	Tree/Log Chipping	When logs cannot be reused or sold, they will be chipped on site. The resulting wood chips will be piled in upland areas within the ROW or transported off ROW to an approved disposal site (Appendix L). Wood chips will be spread three (3) to five (5) inches thick with fertilizer spread over the chips to minimize soil nitrogen depletion due to cellulose decomposition.			
Туре Е	Vegetation Chipping	Vegetation including tree limbs may be chipped to reduce debris volume. See Type D for the disposal of chips.			
Type F	Vegetation Hauling	Vegetation and stumps may be hauled to a NYSDEC approved location (Appendix L) or other suitable off-site location with the approval of the landowner and all applicable permitting agencies.			
Type G	Vegetation Burial	Stumps may be buried on the ROW with landowner agreement. The burial areas will be sufficiently compacted and monitored after construction to assure that settling does not occur. Where significant settling after construction has been identified by the Construction Inspector et. al., finished grade will be reestablished using locally obtained run-of-bank material and/or topsoil and re-seeded as appropriate as specified in Sections 14.2. Areas where significant amounts of stump burial occur will be noted on As-Built drawings and monitored for settling during ROW condition surveys and maintenance activities.			

PACKAGE 4A - TREE AND VEGETATION DISPOSAL METHODS

Table 8.3 describes the tree and vegetation disposal methods that may be used for this Package. The list of disposal locations included in Appendix L will be submitted to DPS and NYSDEC

	Table 9.2 – Summary of Wetland Impacts							
Wetland ID	Jurisdiction	Drawing Sheet Number and Approximate Station	Wetland Community Type ⁽¹⁾ P Railroad	Permanent ROW Impacts (square feet)	Temporary Construction Impacts (square feet)	State Wetland Bugger Temporary Constructio Impacts (square feet)		
CP3-A2	USACE			247	22,697	0		
CP3-A1	USACE	LOW to 40000+50 (C-100, C-401) 40002+00 to 40004+00 (C-100, C-401)	PFO PFO	-217	10,325	0		
G-CW	USACE, NYSDEC (R 3)	, , ,	PFO	0	9,311	58,707		
FA-DT	USACE, NYSDEC (R 50)	40038+50 to 40047+10 (C-103, C-402)	PFO	2,120	21,765			
4A-A	USACE, NYSDEC (R 50)	40047+10 to 40050+00. (C-105 to C-104, C-402 &		0	5,077	114,164		
	USACE, NYSDEC (R	Access Road @ 40052+00 C-201)	PFO	4,137	25,255			
4A-B	50)	40055+50 to 40057+00 (C-104,C-402)	PFO	0	2,879			
FA-DU	USACE, NYSDEC (R 3)	40061+00 to 40062+00 (C-104, C-402)	PEM	0	0			
FA-DV	USACE, NYSDEC (R 3)	40087+50 to 40091+50 (C-106, C-403)	PFO	2,377	12,191	33,826		
C-CP-F	USACE	40094+00 to 400100+00 (C-106 to C-107, C-403 to C-404)	PFO	2,219	28,015	0		
C-CP-D	USACE	40106+50 to 40127+50 (C-107 to C-108, C-404 to	PFO	11,467	62,648	0		
C-CP-D	USACE	C-405)	PEM	0	0	0		
MH-A	USACE	40132+00 Along Access Road (C-109, C-203, C- 405)	PEM	0	8,822	0		
MH-B	USACE	40132+50 to 40136+00 (C-109, C-405)	PFO	0	4,956	0		
P4-C	USACE, NYSDEC (R. 11)	40137+00 to 40143+00 (C-109 to C-110, C-405); 40172+50 (C-111, C-406)	PFO	3,582	18,862			
C-CP-B	USACE, NYSDEC (R- 11)	-40145+50 to 40168+00 (C-110 to 112, C-405 to C- 406)	PEM	0	0	123,744		
P4A-M	USACE NYSDEC (R- 41)	40177+00 (C-112, C-406)	PEM	20	401			
P4A-D	USACE	40193+00 to 40200+00 (C-113, C-407)	PFO	4,169	21,364	0		
P4A-E	USACE	40206+25 to 40208+75 (C-114, C-407)	PFO	1,506	10,534	0		
P4A-F	USACE	40218+75 to 70219+25 (C-115, C-408)	PSS	186	473	0		
G-P4A-I	USACE	40219+50 to 40228+50 (C-115, C-408)	PFO	6,307	48,424	0		
P4A-G	USACE	40233+50 to 40241+75 (C-116, C-408)	PFO	4,645	43,904	0		
C DAA I	USACE & NYSDEC	40247+00 to 40248+50+75, 40249+00 to	PEM	6,431	37,144			
G-P4A-J	(R-18)	40258+50, 40259+50 to 40261+00, 40271+50,	PSS PFO	511	4,352	100 705		
	LICACE & NIVEDEC	40272+00, 40274+00 to 40292+00 (C-115 to C-		11,735	69,533	108,705		
G-P	USACE & NYSDEC (R-18)	40294+00 to 40311+00 (C-120 to C-121, C-410 to C-411)	PFO	9,046	34,487			
G-O	USACE	40318+75 to 40320+25 (C121, C-411)	PEM	382	1,762	0		
FA-EB	USACE, NYSDEC (R-			0	0	3,562		
		40320+00 to 40324+50 (C-121-C-122, C-411)	PFO					

<u> </u>					<u> </u>	
G-N	USACE	40325+00 to 40335+50 (C-122, C-411)	PFO	385	12,896	0
EA D.7	USACE, NYSDEC (R-					
FA-DZ	18)	40331+00 to 40337+50 (C-122, C-411)	PFO	0	0	5,046
0.1	LICACE	40220 : 00 to 40252 : 50 /C 422 C 444)	PEM	3,977	7,370	0
G-L	USACE	40339+00 to 40353+50 (C-122, C-411)	PFO	171	2,443	0
G-M	USACE	40343+00 to 40346+25	PSS	491	6,141	0
G-BB4	USACE	40358+50 to 40365+00, 40369+00	PEM	68	2,462	0
P4A-Q	USACE	40372+60 to 40379+25 (C-413)	PEM	0	3,517	0
	USACE, NYSDEC (B-			0		4.567
P4A-P	31)	40375+50 to 40379+25	PEM	0	0	4,567
G-BB3 (South)	USACE, NYSDEC (B-			887	4,859	6,580
DDO (CCCCI)	31)	40390+00 to 40392+00	PSS	007	4,039	0,360
S-BB2	USACE, NYSDEC (B-			0	4,286	39,208
	31)	40405+00 to 40406+50	PFO			
G-BB1	USACE, NYSDEC (B-	40420 - 00 +- 40424 - 00	PEM	578	7,539	45,103
G-RB-F	31) USACE	40420+00 to 40424+00 40442+50 to 40445+00	PEIVI	60	12.692	
94A-S	USACE	40442+50 to 40445+00 40448+00 to 40448+50 (C-415)	PEM	69 72	12,682 274	0
G-RB-D	USACE	40449+75 to 40463+00	PFO	7,082	42,552	0
G-RB-E	USACE	40486+00 to 40490+85	PFO	1,958	19,949	0
A-EF	USACE	40493+00 to 40497+50 (C-417)	PEM	0	19,221	0
G-RB-A	USACE	40497+00 to 40501+00	PSS	3,820	23,937	0
A-EE	USACE	40507+25 to 40508+25 (C-417)	PEM	48	624	0
	USACE, NYSDEC			0	0	1.242
G-RB-C	(BH-6)	40512+00 to 40513+00	PEM	0	0	1,343
	USACE		PUB	0	606	0
G-HT-Pond	USACE	40525+00 to 40526+50				0
				0	1,579	0
P4A-T	USACE	40525+75 to 40526+75 (C-418)	PEM	0	1,379	0
G-GR-A	USACE, NYSDEC (S-			0	1,606	16,624
J GR //	105)	40532+00 to 40533+00 (C-418)	PEM		1,000	10,024
	USACE, NYSDEC (S-			5,190	28,316	12,484
C-CP-O	105)	40532+25 to 40541+75 (C-418)	PFO	2,170	20,510	12,101
	USACE, NYSDEC (S-			1,391	7,676	
G-XO	105)	40540+00 to 40542+00 (C-418)	PFO		.,,	3,194
	USACE, NYSDEC (S-			481	2,906	
A-XU	105)	40542+00 to 40543+00 (C-418)	PFO			
			PEM	11,576	97,398	
				0.266	2.236	
				5,895	39,760	
			PSS			
	Total by Wetlar	nd Community Type		0.135	0.913	N/A
	•		PUB	0	606	14/21
				0.000	0.014	
				80,065	580,856	
			PFO		·	
				1.84	13.33	
		Total		97,536	718,620	576,857
		10001		2.24	16.50	13.24

Note: (1) PEM - Palustrine emergent, PSS - Palustrine scrub-shrub, PFO - Palustrine forested. Table 9.2 describes the location and impact for each wetland within this

# PACKAGE 4A - IMPACTS TO WETLANDS AND WATERBODIES

Table 9.3B – Summary	of Federal and State-Listed Species

Status	ESA Type	Location	Best Management Practices	Anticipated Impacts
Federal/ State Endangered	ESA 4	Assumed to be roosting habitat located throughout the Project Corridor (40000+00 to 40543+31)	(a) Conduct tree clearing and tree trimming activities between October 31 and March 31. Tree clearing and tree trimming activities are not allowed between April 1 and October 31. (4) (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.	None
Federal/State Endangered	ESA 9	Assumed to be roosting habitat located throughout the Project Corridor (40000+00 to 40543+31)	(a) Conduct tree clearing and tree trimming activities between October 31 and March 31. Tree clearing and tree trimming activities are not allowed between April 1 and October 31. (4) (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.	None
Federal Candidate	ESC – Candidate	Assumed to be roosting habitat located throughout the Project Corridor (40000+00 to 40543+31)	Not Required	None
Federal – MBT State- Threatened	ESA 1	NHP documented nesting within 0.2 mile of project alignment in Town of Ballston, Saratoga County (40152+00 to 40261+00)	a) Prior to construction, the Applicant would identify all ESA 1 nest locations within 0.5 miles (0.8 kilometers [km]) of construction, based on data provided by the NYNHP. b) If any blasting activities are necessary within 0.5 miles (0.8 km) of active ESA 1 nests, the Applicant would contact USFWS and NYSDEC for guidance to avoid or minimize the potential for noise-related disturbance. c) If construction would occur within 660 feet (201 meters) of an active nest during the nest-building or breeding season (December to August) per USFWS guidelines, the Applicant would contact USFWS and NYSDEC for guidance to avoid and minimize the potential for noise-related disturbance. e) Environmental training for contractors and construction crews would include training on the identification of ESA 1 and location of nests. Construction personnel would be instructed to report any sightings of potential ESA 1 nests that were not previously identified by the NYNHP. f) If any previously unidentified ESA 1 nests are discovered, the Applicant would report findings to the NYNHP as soon as possible, and consult with the NYSDEC and USFWS for guidance to avoid or minimize the potential for disturbance, if required.	None

PACKAGE 4A - FEDERAL AND STATE LISTED SPECIES

October 31, the procedures describe in Section 8.2 will be followed.

Appendix T describe the habitat for these species and the procedures that will be followed to minimize the impact on these species. (4) In the event of an unanticipated emergency that requires tree clearing or tree trimming during April 1 to

**Restoration Methods** Land Use Description Section of EMCP Construction Materials and Equipment Staging Locations | 14.2.2 and Temporary Access Pavement 14.2.2 Railway Ballast 14.2.3 14.2.4 Recreational Areas Landscaping 14.3 Streams and Waterbodies 14.4 Access Roads and Laydown Areas within Agricultural Drainage Features 14.5.2 General Agricultural Lands 14.5 Note: Section 14 describes the cleanup standards and procedures that will be followed throughout this Package once construction is complete. The Table above summarizes the appropriate subsection with Section 14 that includes the

PACKAGE 4A - RESTORATION METHODS

08/03/2023 ISSUED FOR CONSTRUCTION SUBMISSION

SUBMITTAL / REVISION DESCRIPTION

restoration procedure for each type of land use.

Table 8.4 – Tree and Vegetation Clearing Locations							
Segment/ Package	Description	Sheet Number	Location (Approximate – See Drawings for Details)	Vegetation/ Tree Clearing Method Type	Applicable Environmental Sensitive Area Requirements		
S6/P4A	Tree and Vegetation Clearing	C-100	40000+00 to 40006+00	Type IV	None		
S6/P4A	Tree and Vegetation Clearing	C-101 to C-104	40021+43 to 40062+00	Type I and IV	Wetlands		
S6/P4A	Tree and Vegetation Clearing	C-106 to C-115	40070+00 to 40101+00	Type I or IV	Wetlands		
S6/P4A	Tree and Vegetation Clearing	C-116 to C-124	40238+00 to 40367+00	Type I or IV	Wetlands		
S6/P4A	Tree Clearing	C-124 to C-126	40371+50 to 40398+00	Type I or IV	Wetlands		
S6/P4A	Tree Clearing	C-128 to C-129	40420+00 to 40430+50	Type I or IV	Wetlands		
S6/P4A	Tree Clearing	C-129 to C-134	40443+00 to 40512+50	Type I or IV	Wetlands		
S6/P4A	Tree Clearing	C-135 to C-136	40524+50 to 40543+31	Type I or IV	Wetlands		

Note: Table 8.4 identifies the clearing locations and methods within this Package. The following sections describe the procedures that will be followed for these environmentally

1. Wetlands: Section 8.2.1 and 9.1.

2.Stream Crossing: Section 8.2.1 and Section 9.1.

3. Threatened and Endangered Species/Sensitive Habitats: Section 9.3.

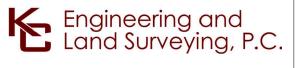
4.Agricultural Lands: Section 8.2.2.

## PACKAGE 4A - TREE AND VEGETATION CLEARING LOCATIONS

DB APP DRAWN BY: CS DESIGNED BY: JM APPROVED BY: SB REV. NO.







FOR INFORMATION SEE THE ENVIRONMENTAL MANAGEMENT AND CONSTRUCTION PLAN NARRATIVE.

	CHAMPLAIN HUDSON POWER EXPRESS
	SEGMENT 6 (PACKAGE 4A) - CP: BALLSTON TO GLENVILLE
	EM&CP DATA TABLES
	(3 OF 5)

KIEWIT PROJECT NO. 21162 KC PROJECT NO. 120174 DRAWING NO.

**G-008** 

AS NOTED DATE

protected bats during the summer pup rearing season

protected bats during the summer pup rearing season

minimize the potential for noise-related disturbance.

and USFWS for guidance to avoid or minimize the potential for disturbance, if required. Note: Table 9.3 summarizes the locations, best management practices, and anticipated impacts for the federally listed and state-listed species that may be encountered on or within the vicinity of this Segment/Package. Section 9.3 and Appendix T describe the habitat for these species and the procedures that will be followed to minimize the impact on these species. (4) In the event of an unanticipated emergency that requires tree clearing or tree trimming during April 1

to October 31, the procedures describe in Section 8.2 will be followed.

Assumed to be roosting habitat located throughout the Consultations with USFWS and NYSDEC has confirmed that tree clearing in this Segment may proceed without seasonal restrictions, given the lack of documented

Assumed to be roosting habitat located throughout the Consultations with USFWS and NYSDEC has confirmed that tree clearing in this Segment may proceed without seasonal restrictions, given the lack of documented

**Best Management Practices** 

hibernacula or maternity roosts within Saratoga and Schenectady County. CHPE has voluntarily agreed not to clear trees in June or July, to avoid potential impacts to

hibernacula or maternity roosts within Saratoga and Schenectady County. CHPE has voluntarily agreed not to clear trees in June or July, to avoid potential impacts to

Not Required

a) Prior to construction, the Applicant would identify all ESA 1 nest locations within 0.5 miles (0.8 kilometers [km]) of construction, based on data provided by the

b) If any blasting activities are necessary within 0.5 miles (0.8 km) of active ESA 1 nests, the Applicant would contact USFWS and NYSDEC for guidance to avoid or

c) If construction would occur within 660 feet (201 meters) of an active nest during the nest-building or breeding season (December to August) per USFWS

e) Environmental training for contractors and construction crews would include training on the identification of ESA 1 and location of nests. Construction personnel

f) If any previously unidentified ESA 1 nests are discovered, the Applicant would report findings to the NYNHP as soon as possible, and consult with the NYSDEC

guidelines, the Applicant would contact USFWS and NYSDEC for guidance to avoid and minimize the potential for noise-related disturbance.

would be instructed to report any sightings of potential ESA 1 nests that were not previously identified by the NYNHP.

Anticipated

Package

S6/P4A

S6/P4A

S6/P4A S6/P4A

C-417(B)

C-405(A

Flood Zone Definition

NOTE: REFER TO EM&CP APPENDIX R

	Table 13.2 - CP Railroad Crossings								
Segment/ Package	Crossing ID	Crossing Method	Sheet Number	Location (Approximate see Drawings for Details)					
CP Rail	CP Rail Ballston Spa Industrial Track 30.90	HDD#51	C-101	40011+00					
CP Rail	CP Rail MP 25.90-25.74	HDD#55	C-120	40292+00 to 40293+50					
CP Rail	Access road that starts at Main Street/NYS Route 146A crosses RR tracks	N/A	C-124	40353+00 to 40354+50					

Note: Table 13.2 describes the CP Railroad crossings within this Package. Access roads that cross the railroad are described in Table 4.5 and Section 4.10. Section 13.2 describes the procedures that will be followed for all railroad

HDD#58

C-125

PACKAGE 4A - CP RAIL COORDINATION SUMMARY

Table 13.4 Railroad Owner	Railroad Milepost	Approximate Station Location (See Drawings for Details)				
CP Rail	N/A	Entire Segment 6 / Package 4A				
Note: Table 13.4 describes the parallel railroad construction within this Package. Section 13.2 describes the procedures to be followed during all parallel railroad construction.						

## PACKAGE 4A - PARALLEL RAILROAD CONSTRUCTION

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

PACKAGE 4A - NYSDOT COORDINATION SUMMARY

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 6 (PACKAGE 4A) - CP: BALLSTON TO GLENVILLE
EM&CP DATA TABLES
(4 OF 5)

KC PROJECT NO. 120174 DRAWING NO.

KIEWIT PROJECT NO. 21162

**G-009** 

				<u> </u>
S6/P4A	C-409(B)	40268+70 to 40271+50	Zone B	0.2% Annual Chance Floodway Boundary
S6/P4A	C-409(B)	40272+70 to 40275+00	Zone B	0.2% Annual Chance Floodway Boundary
S6/P4A	C-409(B)	40269+50 to 40271+00	Zone A	1% Annual Chance Floodway Boundary
S6/P4A	C-409(B)	40273+20 to 40274+20	Zone A	1% Annual Chance Floodway Boundary
S6/P4A	C-411(B)	40303+50 to 40325+70	Zone A	1% Annual Chance Floodway Boundary
S6/P4A	C-411(B)	40303+50 to 40325+70	Zone A	1% Annual Chance Floodway Boundary
S6/P4A	C-411(B) to C- 412(A)	40319+00 to 40337+70	Zone B	0.2% Annual Chance Floodway Boundary
S6/P4A	C-411(B) to C- 412(A)	40319+00 to 40337+70		0.2% Annual Chance Floodway Boundary
S6/P4A	C-415(A)		Zone A	
S6/P4A	C-416(A)		Zone A	· · · · · · · · · · · · · · · · · · ·
S6/P4A	C-417(B)	40505+00 to 40534+00	Zone A	1% Annual Chance Floodway Boundary

CP Rail

CP Rail MP 24.50-24.37

NOTE: FEMA FIRM MAPS ARE PROVIDED IN APPENDIX D OF THE STORMWATER POLLUTION PREVENTION PLAN WHICH IS INCLUDED IN APPENDIX G OF THE EM&CP.

S6/P4A C-417(B) 40515+00 to 40518+00 Zone A 1% Annual Chance Floodway Boundary

S6/P4A | C-418(A) | 40520+30 TO 40524+00 | Zone B | 0.2% Annual Chance Floodway Boundary S6/P4A C-418(A) 40522+50 TO 40527+50 Zone B 0.2% Annual Chance Floodway Boundary

C-417(B) 40504+50 to 40512+50 Zone B 0.2% Annual Chance Floodway Boundary

C-417(B) 40517+00 to 40518+00 Zone B 0.2% Annual Chance Floodway Boundary

40514+50 to 40516+20 Zone B 0.2% Annual Chance Floodway Boundary

Table 9.3 – FEMA Flood Zones in Package 4A

C-404(A) 40100+50 to 40103+00 Zone A 1% Annual Chance Floodway Boundary

40100+50 to 40101+00 | Zone B | 0.2% Annual Chance Floodway Boundary

40132+00 to 40132+50 Zone B 0.2% Annual Chance Floodway Boundary

Approximate Location -

(see Drawings for

PACKAGE 4A - FEMA

Table 12.3 – Road and Highway Crossings and Parallel Construction

Segment/ Package	Municipality	Jurisdiction	Description	Crossing Method	Sheet Number	Location (Approximate – See Drawings for Details)
S6/4A	Town of Ballston	Town of Ballston	East High Street	HDD#51	C-100	40006+00
S6/P4A	Town of Ballston	Town of Ballston	Zepko Lane	Trench	C-103	40039+00
S6/P4A	Town of Ballston	NYSDOT	NYS Route 67	HDD#53	C-107	40102+00
S6/P4A	Town of Ballston	Town of Ballston	Outlet Road	Trench	C-112	40176+40
S6/P4A	Town of Ballston	Town of Ballston	Connolly Road	Trench	C-113	40201+00
S6/P4A	Town of Ballston	Town of Ballston	Whites Beach Road	Trench	C-116	40242+27
S6/P4A	Town of Ballston	NYSDOT	NYS Route 146A	Trench	C-124	40356+43
S6/P4A	Saratoga County	Saratoga County	Blue Barns Road	Trench	C-129	40430+88
S6/P4A	Town of Clifton Park	Town of Clifton Park	Rustic Bridge Road	Trench	C-130	40447+71
S6/P4A	Town of Glenville	NYSDOT	Glenridge Road	HDD#61	C-135	40531+36

PACKAGE 4A - RAILROAD CROSSINGS

PACKAGE 4A - FEDERAL AND STATE LISTED SPECIES

Table 9.4 – Aquatic Invasive Species							
Species Name (Scientific Name)	Location Wetland ID & Wetland Flag IDs (if applicable)						
	Wetland C-CP-D (40118+00 to 40122+00, C-404-405)						
	Wetland MH-A (40125+75; C-404)						
	Wetland C-CP-B (40138+75, C-405)						
	Wetland P4A-M (40169+00, C-406)						
	Wetland C-CP-H (40250+75, C-409)						
	Wetland C-CP-I (40278+25, C-410)						
	Wetland G-P (40294+00; C-410)						
	Wetland G-O (40318+75; C-411)						
	Wetland G-K (40352+50; C-412)						
	Wetland G-BB4 (40355+50; C-412)						
	Wetland P4A-O (40357+75; C-413)						
	Wetland C-CP-K (40367+75, C-413)						
purple loosestrife (Lythrum salicaria)	Wetland C-CP-L (40372+00, C-413)						
	Wetland P4A-Q (40372+50; C-413)						
	Wetland P4A-P (40376+00; C-413)						
	Wetland G-BB1 (40413+75; C-414)						
	Wetland P4A-R (40429+00; C-415)						
	Wetland C-CP-M (40423+25, C-415)						
	Wetland C-CP-N (40445+25, C-415)						
	Wetland P4A-S (40448+00; C-415)						
	Wetland G-RB-C (40514+50; C-417)						
	Wetland G-RB-B (40517+50; C-417)						
	Wetland P4A-U (40520+00; C-418)						
	Wetland C-CP-O/G-XO (40524+25, C-418)						
	Wetland P4A-T (40525+75; C-418)						
	Wetland FA-DU (400624+00, C-402)						
	Wetland C-CP-E (40094+25, C-404)						
	Wetland C-CP-C (40127+50, C-405)						
	Wetland P4A-M (40169+00, C-406)						
	Wetland C-CP-A (40185+00, C-407)						
	Wetland G-L (40338+75; C-412)						
	Wetland G-K (40352+50; C-412)						
	Wetland C-CP-K (40357+75, C-412)						
common reed (Phragmites australis)	Wetland C-CP-L (40365+00, C-413)						
	Wetland P4A-R (40431+75; C-415)						
	Wetland P4A-S (40448+00; C-415)						
	Wetland P4A-O (40457+75; C-413)						
	Wetland FA-EF (40483+75, C-417)						
	Wetland FA-EE (40499+25, C-417)						
	Wetland G-RB-C (40514+50; C-417)						
	Wetland G-GR-A (40533+50; C-418)						
	Wetland P4A-T (40525+75; C-418)						

Location

Project Corridor

(40000+00 to 40543+31)

Project Corridor

(40000+00 to 40543+31)

Assumed to be roosting habitat located throughout the

Project Corridor

(40000+00 to 40543+31)

NHP documented nesting within 0.2 mile of project

alignment in Town of Ballston, Saratoga County

(40152+00 to 40261+00)

Federal/State

Endangered

Federal/State

Endangered

Federal

Candidate

Federal -

**MBT** 

State-

Threatened

ESA9

ESC – Candidate

common buckthorn (Rhamnus cathartica)	Wetland CP3-A2 (40000+00; C-401)
	Wetland CP3-A1 (40002+00; C-401)
	Wetland C-CP-F (40086+00, C-403)
	Wetland C-CP-D (40096+50 to 40121+00, C-404-405)
	Wetland MH-B (40132+75; C-405)
	Wetland G-Q (40295+00; C-410)
	Wetland G-N (40324+50; C-411)
	Wetland G-L (40338+75; C-412)
	Wetland G-M (40342+00; C-412)
	Wetland G-BB4 (40355+50; C-412)
	Wetland G-BB3-south1(40391+25; C-413)
	Wetland G-BB1(40413+75; C-414)
	Wetland G-RB-F (40450+00; C-415)
	Wetland G-RB-A (40498+50; C-417)
	Wetland G-RB-B (40517+50; C-417)
	Wetland C-CP-C (40127+50, C-405)
morrow's honeysuckle (Lonicera morrowii)	Wetland CP3-A1 (40002+00; C-401)
	Wetland C-CP-D (40096+50 to 40121+00, C-404-405)
	Wetland P4A-T (40525+75; C-418)
	Wetland C-CP-O/G-XO (40524+25, C-418)
	Wetland G-GR-A (40533+50; C-418)
Tŧatarian honeysuckle (Lonicera tatarica)	Wetland C-CP-G (40221+00 to 40223+00, C-408)
	Wetland MH-B (40132+75; C-405)
	Wetland G-L (40338+75; C-412)
	Wetland G-M (40342+00; C-412)
	Wetland G-K (40352+50; C-412)
	Wetland G-BB4 (40355+50; C-412)
	Wetland G-BB3-south1(40378+75; C-413)
	Wetland G-BB1(40413+75; C-414)
	Wetland P4A-N (40434+00; C-412)
	Wetland G-RB-F (40450+00; C-415)
	Wetland G-RB-D (40451+00; C-415)
	Wetland G-RB-E (40486+00; C-416)
	Wetland G-RB-A (40498+50; C-417)
multiflora rose (Rosa multiflora)	Wetland C-CP-G (40221+00 to 40223+00, C-408)
	Wetland FA-EF (40483+75, C-417)
oriental bittersweet (Celastrus orbiculatus)	Wetland G-BB4 (40355+50; C-412)
	Wetland P4A-O (40357+75;C-412)
	Wetland G-RB-E (40486+00; C-416)
garlic mustard (Alliaria petiolata )	Wetland P4A-D (40193+50; C-407)
	Wetland P4A-G (40219+50; C-408)
	Wetland P4A-U (40520+00; C-418)

PACKAGE 4A - INVASIVE SPECIES

Engineering and Land Surveying, P.C.

FOR INFORMATION SEE THE ENVIRONMENTAL MANAGEMENT AND CONSTRUCTION PLAN NARRATIVE.

SUBMITTAL / REVISION DESCRIPTION

ISSUED FOR CONSTRUCTION SUBMISSION

consultation is included in Appendix A.

40363+50 to 40365+00

**Power Express** 

DB APP DRAWN BY: CS DESIGNED BY: JM APPROVED BY: SB REV. NO.

AS NOTED DATE