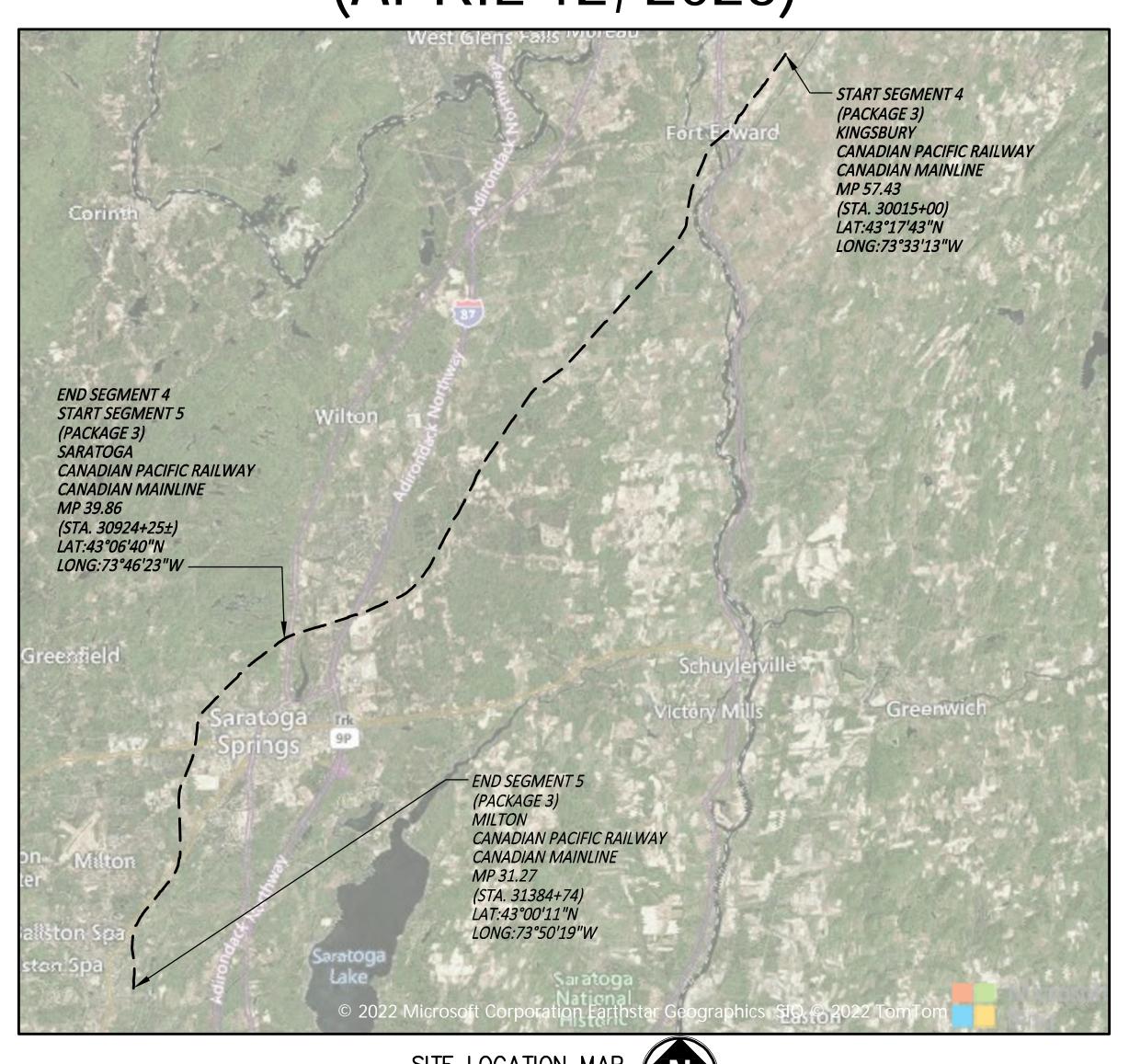
APPENDIX C: PLAN & PROFILE DRAWINGS, EROSION AND SEDIMENT CONTROL PLANS, AND MAINTENANCE AND PROTECTION OF TRAFFIC PLANS CASE 10-T-0139

CHAMPLAIN HUDSON POWER EXPRESS

SEGMENTS 4 & 5 (PACKAGE 3) - FORT EDWARD TO MILTON SARATOGA COUNTY, NEW YORK FINAL EM&CP SUBMISSION (APRIL 12, 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 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.

				SEGMENTS 4 & 5 (PACKAGE 3) - CP: FORT EDWAR
				COVER SHEET
0.4/05/2022	FINAL FMCOD CHIDMICOLONI	l le	JPR	
04/05/2023	FINAL EM&CP SUBMISSION	JJE		SCALE
DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	DRAWN BY: JJE DESIGNED BY: JTM APPROVED BY: JPR REV. NO.

CHAMPLAIN HUDSON POWER EXPRESS CP: FORT EDWARD TO MILTON R SHEET

KIEWIT PROJECT NO. CHA PROJECT NO. DRAWING NO. G-000

AS NOTED DATE

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C-217 C-218 C-219 C-220 C-220A C-221 C-222 C-223 C-224 C-225	ACCESS DRIVE AT STA. 30910+00 ACCESS DRIVE AT STA. 30989+00 ACCESS DRIVE AT STA. 31063+00 ACCESS DRIVE AT STA. 31084+00 ACCESS DRIVE AT STA. 31102+00 ACCESS DRIVE AT STA. 31137+00 ACCESS DRIVE AT STA. 31221+00 ACCESS DRIVE AT STA. 31256+00 ACCESS DRIVE AT STA. 31294+00 ACCESS DRIVE AT STA. 31322+00
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C-217 C-218 C-219 C-220 C-220A C-221 C-222 C-223 C-224 C-225 PACKAGE 3: HD C-301 C-301A C-301A.1 C-302A C-302A C-302A1 C-303A C-303A1 C-303A.1 C-303A.2 C-303A.2 C-303B	ACCESS DRIVE AT STA. 30910+00 ACCESS DRIVE AT STA. 31063+00 ACCESS DRIVE AT STA. 31063+00 ACCESS DRIVE AT STA. 31084+00 ACCESS DRIVE AT STA. 31102+00 ACCESS DRIVE AT STA. 31102+00 ACCESS DRIVE AT STA. 31137+00 ACCESS DRIVE AT STA. 31211+00 ACCESS DRIVE AT STA. 31294+00 ACCESS DRIVE AT STA. 31294+00 ACCESS DRIVE AT STA. 31322+00 D TRENCHLESS PLANS PLAN AND PROFILE - HDD 21B, CONDUIT 1 PLAN AND PROFILE - HDD 21B, CONDUIT 1 PLAN AND PROFILE - HDD 21B, CONDUIT 2 PLAN AND PROFILE - HDD 21B, CONDUIT 2 PLAN AND PROFILE - HDD 22, CONDUIT 1 PLAN AND PROFILE - HDD 22, CONDUIT 2 PLAN AND PROFILE - HDD 24, CONDUIT 1 PLAN AND PROFILE - HDD 24, CONDUIT 2 PLAN AND PROFILE - HDD 24, CONDUIT 1 PLAN AND PROFILE - HDD 24, CONDUIT 2
C-217 C-218 C-219 C-220 C-220 C-220A C-221 C-222 C-223 C-224 C-225 PACKAGE 3: HD C-301.1 C-301A C-301A.1 C-302 C-302A C-302A C-302A.1 C-303A C-303A.1 C-303A.2 C-303A.2 C-303B C-303C	ACCESS DRIVE AT STA. 30910+00 ACCESS DRIVE AT STA. 310889+00 ACCESS DRIVE AT STA. 31083+00 ACCESS DRIVE AT STA. 31084+00 ACCESS DRIVE AT STA. 31102+00 ACCESS DRIVE AT STA. 31102+00 ACCESS DRIVE AT STA. 31137+00 ACCESS DRIVE AT STA. 31211+00 ACCESS DRIVE AT STA. 31294+00 ACCESS DRIVE AT STA. 31294+00 ACCESS DRIVE AT STA. 31322+00 D TRENCHLESS PLANS PLAN AND PROFILE - HDD 21B, CONDUIT 1 PLAN AND PROFILE - HDD 21B, CONDUIT 2 PLAN AND PROFILE - HDD 21B, CONDUIT 2 PLAN AND PROFILE - HDD 22, CONDUIT 2 PLAN AND PROFILE - HDD 22, CONDUIT 1 PLAN AND PROFILE - HDD 22, CONDUIT 1 PLAN AND PROFILE - HDD 22, CONDUIT 2 PLAN AND PROFILE - HDD 22, CONDUIT 1 PLAN AND PROFILE - HDD 24, CONDUIT 2 PLAN AND PROFILE - HDD 24, CONDUIT 2 PLAN AND PROFILE - HDD 24, CONDUIT 2 PLAN AND PROFILE - HDD 24, CONDUIT 1 PLAN AND PROFILE - HDD 24, CONDUIT 1 PLAN AND PROFILE - HDD 24, CONDUIT 1 PLAN AND PROFILE - HDD 24A, CONDUIT 1
C-217 C-218 C-219 C-220 C-220A C-221 C-222 C-223 C-224 C-225 PACKAGE 3: HD C-301 C-301A C-301A.1 C-302A C-302A C-302A C-302A.1 C-303 C-303A.1 C-303A.1 C-303A.2 C-303B C-303C C-304	ACCESS DRIVE AT STA. 30910+00 ACCESS DRIVE AT STA. 31063+00 ACCESS DRIVE AT STA. 31084+00 ACCESS DRIVE AT STA. 31084+00 ACCESS DRIVE AT STA. 31102+00 ACCESS DRIVE AT STA. 31102+00 ACCESS DRIVE AT STA. 31137+00 ACCESS DRIVE AT STA. 31221+00 ACCESS DRIVE AT STA. 31221+00 ACCESS DRIVE AT STA. 31229+00 ACCESS DRIVE AT STA. 31322+00 D TRENCHLESS PLANS PLAN AND PROFILE - HDD 21B, CONDUIT 1 PLAN AND PROFILE - HDD 21B, CONDUIT 1 PLAN AND PROFILE - HDD 21B, CONDUIT 2 PLAN AND PROFILE - HDD 21B, CONDUIT 2 PLAN AND PROFILE - HDD 22, CONDUIT 1 PLAN AND PROFILE - HDD 22, CONDUIT 1 PLAN AND PROFILE - HDD 22, CONDUIT 2 PLAN AND PROFILE - HDD 24, CONDUIT 1 PLAN AND PROFILE - HDD 24, CONDUIT 2 PLAN AND PROFILE - HDD 24, CONDUIT 1 PLAN AND PROFILE - HDD 24, CONDUIT 2 PLAN AND PROFILE - HDD 24A, CONDUIT 2
C-217 C-218 C-219 C-220 C-220 C-220A C-221 C-222 C-223 C-224 C-225 PACKAGE 3: HD C-301.1 C-301.1 C-301A.1 C-302A C-302A.1 C-302A C-302A.1 C-303A.2 C-303A.1 C-303A.2 C-303A.2 C-303B C-303C C-304 C-304.1	ACCESS DRIVE AT STA. 30910+00 ACCESS DRIVE AT STA. 31063+00 ACCESS DRIVE AT STA. 31084+00 ACCESS DRIVE AT STA. 31084+00 ACCESS DRIVE AT STA. 31102+00 ACCESS DRIVE AT STA. 31102+00 ACCESS DRIVE AT STA. 31137+00 ACCESS DRIVE AT STA. 31221+00 ACCESS DRIVE AT STA. 31221+00 ACCESS DRIVE AT STA. 31229+00 ACCESS DRIVE AT STA. 31322+00 D TRENCHLESS PLANS PLAN AND PROFILE - HDD 21B, CONDUIT 1 PLAN AND PROFILE - HDD 21B, CONDUIT 1 PLAN AND PROFILE - HDD 21B, CONDUIT 2 PLAN AND PROFILE - HDD 21B, CONDUIT 2 PLAN AND PROFILE - HDD 22, CONDUIT 1 PLAN AND PROFILE - HDD 22, CONDUIT 1 PLAN AND PROFILE - HDD 22, CONDUIT 1 PLAN AND PROFILE - HDD 22, CONDUIT 2 PLAN AND PROFILE - HDD 24, CONDUIT 1 PLAN AND PROFILE - HDD 24, CONDUIT 2 PLAN AND PROFILE - HDD 24, CONDUIT 1 PLAN AND PROFILE - HDD 24, CONDUIT 2 PLAN AND PROFILE - HDD 24A, CONDUIT 1 PLAN AND PROFILE - HDD 25, CONDUIT 1 PLAN AND PROFILE - HDD 25, CONDUIT 1 PLAN AND PROFILE - HDD 25, CONDUIT 1
C-217 C-218 C-219 C-220 C-220A C-221 C-222 C-223 C-224 C-225 PACKAGE 3: HD C-301 C-301A C-301A.1 C-302A C-302A C-302A C-302A.1 C-303 C-303A.1 C-303A.1 C-303A.2 C-303B C-303C C-304	ACCESS DRIVE AT STA. 30910+00 ACCESS DRIVE AT STA. 31063+00 ACCESS DRIVE AT STA. 31084+00 ACCESS DRIVE AT STA. 31084+00 ACCESS DRIVE AT STA. 31102+00 ACCESS DRIVE AT STA. 31102+00 ACCESS DRIVE AT STA. 31137+00 ACCESS DRIVE AT STA. 31221+00 ACCESS DRIVE AT STA. 31221+00 ACCESS DRIVE AT STA. 31229+00 ACCESS DRIVE AT STA. 31322+00 D TRENCHLESS PLANS PLAN AND PROFILE - HDD 21B, CONDUIT 1 PLAN AND PROFILE - HDD 21B, CONDUIT 1 PLAN AND PROFILE - HDD 21B, CONDUIT 2 PLAN AND PROFILE - HDD 21B, CONDUIT 2 PLAN AND PROFILE - HDD 22, CONDUIT 1 PLAN AND PROFILE - HDD 22, CONDUIT 1 PLAN AND PROFILE - HDD 22, CONDUIT 2 PLAN AND PROFILE - HDD 24, CONDUIT 1 PLAN AND PROFILE - HDD 24, CONDUIT 2 PLAN AND PROFILE - HDD 24, CONDUIT 1 PLAN AND PROFILE - HDD 24, CONDUIT 2 PLAN AND PROFILE - HDD 24A, CONDUIT 2
C-217 C-218 C-219 C-220 C-220A C-221 C-222 C-223 C-224 C-225 PACKAGE 3: HD C-301 C-301A C-301A.1 C-302A C-302A C-302A1 C-302A C-303A1 C-303.2 C-303A1 C-303A2 C-303A1 C-303A2 C-303A1 C-303A2 C-303B C-304 C-304A	ACCESS DRIVE AT STA. 30910+00 ACCESS DRIVE AT STA. 31063+00 ACCESS DRIVE AT STA. 31084+00 ACCESS DRIVE AT STA. 31102+00 ACCESS DRIVE AT STA. 31102+00 ACCESS DRIVE AT STA. 31137+00 ACCESS DRIVE AT STA. 31137+00 ACCESS DRIVE AT STA. 31221+00 ACCESS DRIVE AT STA. 31221+00 ACCESS DRIVE AT STA. 31226+00 ACCESS DRIVE AT STA. 31294+00 ACCESS DRIVE AT STA. 31322+00 D TRENCHLESS PLANS PLAN AND PROFILE - HDD 21B, CONDUIT 1 PLAN AND PROFILE - HDD 21B, CONDUIT 1 PLAN AND PROFILE - HDD 21B, CONDUIT 2 PLAN AND PROFILE - HDD 21B, CONDUIT 2 PLAN AND PROFILE - HDD 22, CONDUIT 1 PLAN AND PROFILE - HDD 22, CONDUIT 1 PLAN AND PROFILE - HDD 22, CONDUIT 2 PLAN AND PROFILE - HDD 24, CONDUIT 2 PLAN AND PROFILE - HDD 24, CONDUIT 1 PLAN AND PROFILE - HDD 24, CONDUIT 2 PLAN AND PROFILE - HDD 25, CONDUIT 1

C-306	PLAN AND PROFILE - HDD 26, CONDUIT 1
	PLAN AND PROFILE - HDD 26, CONDUIT 1
	PLAN AND PROFILE - HDD 26, CONDUIT 2
	PLAN AND PROFILE - HDD 26, CONDUIT 2 PLAN AND PROFILE - HDD 26, CONDUIT 2
	PLAN AND PROFILE - HDD 27, CONDUIT 1
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	PLAN AND PROFILE - HDD 27, CONDUIT 2
C-308	PLAN AND PROFILE - HDD 28, CONDUIT 1
C-308A	PLAN AND PROFILE - HDD 28, CONDUIT 2
C-309	PLAN AND PROFILE - HDD 29, CONDUIT 1
C-309A	PLAN AND PROFILE - HDD 29, CONDUIT 2
C-310	PLAN AND PROFILE - HDD 30, CONDUIT 1
C-310.1	PLAN AND PROFILE - HDD 30, CONDUIT 1
	PLAN AND PROFILE - HDD 30, CONDUIT 2
	PLAN AND PROFILE - HDD 30, CONDUIT 2
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	PLAN AND PROFILE - HDD 31, CONDUIT 1
	PLAN AND PROFILE - HDD 31, CONDUIT 2
C-312	PLAN AND PROFILE - HDD 32, CONDUIT 1
C-312A	PLAN AND PROFILE - HDD 32, CONDUIT 2
C-313	PLAN AND PROFILE - HDD 32A, CONDUIT 1
C-313A	PLAN AND PROFILE - HDD 32A, CONDUIT 2
	PLAN AND PROFILE - HDD 33, CONDUIT 1
	PLAN AND PROFILE - HDD 33, CONDUIT 1
	PLAN AND PROFILE - HDD 33, CONDUIT 2
	PLAN AND PROFILE - HDD 33, CONDUIT 2
	PLAN AND PROFILE - HDD 35, CONDUIT 1
C-315.1	PLAN AND PROFILE - HDD 35, CONDUIT 1
C-315.2	PLAN AND PROFILE - HDD 35, CONDUIT 1
C-315A	PLAN AND PROFILE - HDD 35, CONDUIT 2
	PLAN AND PROFILE - HDD 35, CONDUIT 2
	PLAN AND PROFILE - HDD 35, CONDUIT 2
	PLAN AND PROFILE - HDD 36, CONDUIT 1
	PLAN AND PROFILE - HDD 36, CONDUIT 2
	PLAN AND PROFILE - HDD 37, CONDUIT 1
	PLAN AND PROFILE - HDD 37, CONDUIT 2
C-318	PLAN AND PROFILE - HDD 38, CONDUIT 1
C-318.1	PLAN AND PROFILE - HDD 38, CONDUIT 1
C-318A	PLAN AND PROFILE - HDD 38, CONDUIT 2
	PLAN AND PROFILE - HDD 38, CONDUIT 2
	PLAN AND PROFILE - HDD 39, CONDUIT 1
	PLAN AND PROFILE - HDD 39, CONDUIT 2
	PLAN AND PROFILE - HDD 40, CONDUIT 1
	PLAN AND PROFILE - HDD 40, CONDUIT 1
	PLAN AND PROFILE - HDD 40, CONDUIT 2
	PLAN AND PROFILE - HDD 40, CONDUIT 2
C-321	PLAN AND PROFILE - HDD 41, CONDUIT 1
C-321A	PLAN AND PROFILE - HDD 41, CONDUIT 2
C-322	PLAN AND PROFILE - HDD 42, CONDUIT 1
	PLAN AND PROFILE - HDD 42, CONDUIT 2
	PLAN AND PROFILE - HDD 43, CONDUIT 1
	PLAN AND PROFILE - HDD 43, CONDUIT 1
	PLAN AND PROFILE - HDD 43, CONDUIT 2
	PLAN AND PROFILE - HDD 43, CONDUIT 2
C-324	PLAN AND PROFILE - HDD 44, CONDUIT 1
C-324A	PLAN AND PROFILE - HDD 44, CONDUIT 2
C-325	PLAN AND PROFILE - HDD 45, CONDUIT 1
	PLAN AND PROFILE - HDD 45, CONDUIT 2
	PLAN AND PROFILE - HDD 46, CONDUIT 1
	PLAN AND PROFILE - HDD 46, CONDUIT 1
	PLAN AND PROFILE - HDD 46, CONDUIT 1
	PLAN AND PROFILE - HDD 46, CONDUIT 2
	PLAN AND PROFILE - HDD 46, CONDUIT 2
C-326A.2	PLAN AND PROFILE - HDD 46, CONDUIT 2
C-327	PLAN AND PROFILE - HDD 47, CONDUIT 1
C-327A	PLAN AND PROFILE - HDD 47, CONDUIT 2
C-328	PLAN AND PROFILE - HDD 49, CONDUIT 1
	PLAN AND PROFILE - HDD 49, CONDUIT 1
	PLAN AND PROFILE - HDD 49, CONDUIT 2
	PLAN AND PROFILE - HDD 49, CONDUIT 2
	PLAN AND PROFILE - HDD 50, CONDUIT 1
C-329A	PLAN AND PROFILE - HDD 50, CONDUIT 2
PACKAGE 3: ERO	OSION AND SEDIMENT CONTROL PLANS
C-400	E&S KEYPLAN
C-401	STA. 30000+00 TO STA. 30030+00 EROSION AND SEDIMENT CONTROL PLA
C-402	STA. 30030+00 TO STA. 30060+00 EROSION AND SEDIMENT CONTROL PLA
C-403	STA. 30060+00 TO A-P3-6+50 EROSION AND SEDIMENT CONTROL PLAN
C-404	A-P3-6+50 TO A-P3-36+50 EROSION AND SEDIMENT CONTROL PLAN
0 /05	A-P3-36+50 TO A-P3-66+50 EROSION AND SEDIMENT CONTROL PLAN
C-405	A-P3-66+50 TO A-P3-96+50 EROSION AND SEDIMENT CONTROL PLAN

	A-P3-96+50 TO STA. 30210+00 EROSION AND SEDIMENT CONTROL PLAN
C-408	STA. 30210+00 TO STA. 30240+00 EROSION AND SEDIMENT CONTROL PLA
C-409	STA. 30240+00 TO STA. 30270+00 EROSION AND SEDIMENT CONTROL PLA
C-410	STA. 30270+00 TO STA. 30300+00 EROSION AND SEDIMENT CONTROL PLA
C-411	STA. 30300+00 TO STA. 30330+00 EROSION AND SEDIMENT CONTROL PLA
C-412	STA. 30330+00 TO STA. 30360+00 EROSION AND SEDIMENT CONTROL PLA
C-413	STA. 30360+00 TO STA. 30390+00 EROSION AND SEDIMENT CONTROL PLA
C-414	STA. 30390+00 TO STA. 30420+00 EROSION AND SEDIMENT CONTROL PLA
C-415	STA. 30420+00 TO STA. 30450+00 EROSION AND SEDIMENT CONTROL PLA
C-416	STA. 30450+00 TO STA. 30480+00 EROSION AND SEDIMENT CONTROL PLA
C-417	STA. 30480+00 TO STA. 30510+00 EROSION AND SEDIMENT CONTROL PLA
C-418	STA. 30510+00 TO STA. 30540+00 EROSION AND SEDIMENT CONTROL PLA
C-419	STA. 30540+00 TO STA. 30570+00 EROSION AND SEDIMENT CONTROL PLA
C-420	STA. 30570+00 TO STA. 30600+00 EROSION AND SEDIMENT CONTROL PLA
C-421	STA. 30600+00 TO STA. 30630+00 EROSION AND SEDIMENT CONTROL PLA
C-422	STA. 30630+00 TO STA. 30660+00 EROSION AND SEDIMENT CONTROL PLA
C-423	STA. 30660+00 TO STA. 30690+00 EROSION AND SEDIMENT CONTROL PLA
C-424	STA. 30690+00 TO STA. 30720+00 EROSION AND SEDIMENT CONTROL PLA
C-425	STA. 30720+00 TO STA. 30750+00 EROSION AND SEDIMENT CONTROL PLA
C-426	STA. 30750+00 TO STA. 30780+00 EROSION AND SEDIMENT CONTROL PLA
C-427	STA. 30780+00 TO STA. 30810+00 EROSION AND SEDIMENT CONTROL PLA
C-428	STA. 30810+00 TO STA. 30840+00 EROSION AND SEDIMENT CONTROL PLA
C-429	STA. 30840+00 TO STA. 30870+00 EROSION AND SEDIMENT CONTROL PLA
C-430	STA. 30870+00 TO STA. 30900+00 EROSION AND SEDIMENT CONTROL PLA
C-431	STA. 30900+00 TO STA. 30930+00 EROSION AND SEDIMENT CONTROL PLA
C-432	STA. 30930+00 TO STA. 30960+00 EROSION AND SEDIMENT CONTROL PLA
C-433	STA. 30960+00 TO STA. 30990+00 EROSION AND SEDIMENT CONTROL PLA
C-434	STA. 30990+00 TO STA. 31020+00 EROSION AND SEDIMENT CONTROL PLA
C-435	STA. 31020+00 TO STA. 31050+00 EROSION AND SEDIMENT CONTROL PLA
C-436	STA. 31050+00 TO STA. 31080+00 EROSION AND SEDIMENT CONTROL PLA
C-437	STA. 31080+00 TO STA. 31110+00 EROSION AND SEDIMENT CONTROL PLAN
C-438	STA. 31110+00 TO STA. 31140+00 EROSION AND SEDIMENT CONTROL PLAN
C-439	STA. 31140+00 TO STA. 31170+00 EROSION AND SEDIMENT CONTROL PLAN
C-440	STA. 31170+00 TO STA. 31200+00 EROSION AND SEDIMENT CONTROL PLAI
C-441	STA. 31200+00 TO STA. 31230+00 EROSION AND SEDIMENT CONTROL PLA
C-442	STA. 31230+00 TO STA. 31260+00 EROSION AND SEDIMENT CONTROL PLA
C-443	STA. 31260+00 TO STA. 31290+00 EROSION AND SEDIMENT CONTROL PLA
C-444	STA. 31290+00 TO STA. 31320+00 EROSION AND SEDIMENT CONTROL PLA
C-445	STA. 31320+00 TO STA. 31350+00 EROSION AND SEDIMENT CONTROL PLA
C-446	STA. 31350+00 TO STA. 31380+00 EROSION AND SEDIMENT CONTROL PLA
C-447	STA. 31380+00 TO STA. 31384+30 EROSION AND SEDIMENT CONTROL PLA
	AINTENANCE AND PROTECTION OF TRAFFIC PLANS
PACKAGE 3: MA	THE PROPERTY OF TRAITIE FEATS
PACKAGE 3: MA C-501	WORK ZONE TRAFFIC CONTROL NOTES, LEGEND AND ABBREVIATIONS
C-501	WORK ZONE TRAFFIC CONTROL NOTES, LEGEND AND ABBREVIATIONS
C-501 C-502	WORK ZONE TRAFFIC CONTROL NOTES, LEGEND AND ABBREVIATIONS WORK ZONE TRAFFIC CONTROL NOTES
C-501 C-502 C-503	WORK ZONE TRAFFIC CONTROL NOTES, LEGEND AND ABBREVIATIONS WORK ZONE TRAFFIC CONTROL NOTES WORK ZONE TRAFFIC CONTROL DETAILS
C-501 C-502	WORK ZONE TRAFFIC CONTROL NOTES, LEGEND AND ABBREVIATIONS WORK ZONE TRAFFIC CONTROL NOTES
C-501 C-502 C-503	WORK ZONE TRAFFIC CONTROL NOTES, LEGEND AND ABBREVIATIONS WORK ZONE TRAFFIC CONTROL NOTES WORK ZONE TRAFFIC CONTROL DETAILS
C-501 C-502 C-503 C-504	WORK ZONE TRAFFIC CONTROL NOTES, LEGEND AND ABBREVIATIONS WORK ZONE TRAFFIC CONTROL DETAILS WORK ZONE TRAFFIC CONTROL DETAILS
C-501 C-502 C-503 C-504 C-505 C-506	WORK ZONE TRAFFIC CONTROL NOTES, LEGEND AND ABBREVIATIONS WORK ZONE TRAFFIC CONTROL DETAILS
C-501 C-502 C-503 C-504 C-505 C-506 C-507	WORK ZONE TRAFFIC CONTROL NOTES, LEGEND AND ABBREVIATIONS WORK ZONE TRAFFIC CONTROL DETAILS
C-501 C-502 C-503 C-504 C-505 C-506 C-507 C-508	WORK ZONE TRAFFIC CONTROL NOTES, LEGEND AND ABBREVIATIONS WORK ZONE TRAFFIC CONTROL DETAILS
C-501 C-502 C-503 C-504 C-505 C-506 C-507	WORK ZONE TRAFFIC CONTROL NOTES, LEGEND AND ABBREVIATIONS WORK ZONE TRAFFIC CONTROL DETAILS
C-501 C-502 C-503 C-504 C-505 C-506 C-507 C-508 C-509	WORK ZONE TRAFFIC CONTROL NOTES, LEGEND AND ABBREVIATIONS WORK ZONE TRAFFIC CONTROL DETAILS
C-501 C-502 C-503 C-504 C-505 C-506 C-507 C-508 C-509	WORK ZONE TRAFFIC CONTROL NOTES, LEGEND AND ABBREVIATIONS WORK ZONE TRAFFIC CONTROL DETAILS
C-501 C-502 C-503 C-504 C-505 C-506 C-507 C-508 C-509 PACKAGE 3: DE	WORK ZONE TRAFFIC CONTROL NOTES, LEGEND AND ABBREVIATIONS WORK ZONE TRAFFIC CONTROL DETAILS TAILS: ESC DETAILS
C-501 C-502 C-503 C-504 C-505 C-506 C-507 C-508 C-509 PACKAGE 3: DE C-601 C-602	WORK ZONE TRAFFIC CONTROL NOTES, LEGEND AND ABBREVIATIONS WORK ZONE TRAFFIC CONTROL DETAILS TAILS: ESC DETAILS EROSION AND SEDIMENT CONTROL DETAILS EROSION AND SEDIMENT CONTROL DETAILS
C-501 C-502 C-503 C-504 C-505 C-506 C-507 C-508 C-509 PACKAGE 3: DE C-601 C-602 C-603	WORK ZONE TRAFFIC CONTROL NOTES, LEGEND AND ABBREVIATIONS WORK ZONE TRAFFIC CONTROL DETAILS TAILS: ESC DETAILS EROSION AND SEDIMENT CONTROL DETAILS
C-501 C-502 C-503 C-504 C-505 C-506 C-507 C-508 C-509 PACKAGE 3: DE C-601 C-602 C-603 PACKAGE 3: DE	WORK ZONE TRAFFIC CONTROL NOTES, LEGEND AND ABBREVIATIONS WORK ZONE TRAFFIC CONTROL DETAILS TAILS: ESC DETAILS EROSION AND SEDIMENT CONTROL DETAILS
C-501 C-502 C-503 C-504 C-505 C-506 C-507 C-508 C-509 PACKAGE 3: DE C-601 C-602 C-603	WORK ZONE TRAFFIC CONTROL NOTES, LEGEND AND ABBREVIATIONS WORK ZONE TRAFFIC CONTROL DETAILS TAILS: ESC DETAILS EROSION AND SEDIMENT CONTROL DETAILS
C-501 C-502 C-503 C-504 C-505 C-506 C-507 C-508 C-509 PACKAGE 3: DE C-601 C-602 C-603 PACKAGE 3: DE	WORK ZONE TRAFFIC CONTROL NOTES, LEGEND AND ABBREVIATIONS WORK ZONE TRAFFIC CONTROL DETAILS TAILS: ESC DETAILS EROSION AND SEDIMENT CONTROL DETAILS
C-501 C-502 C-503 C-504 C-505 C-506 C-507 C-508 C-509 PACKAGE 3: DE C-601 C-602 C-603 PACKAGE 3: DE	WORK ZONE TRAFFIC CONTROL NOTES, LEGEND AND ABBREVIATIONS WORK ZONE TRAFFIC CONTROL DETAILS ETAILS: ESC DETAILS EROSION AND SEDIMENT CONTROL DETAILS WETLAND CROSSING DETAILS
C-501 C-502 C-503 C-504 C-505 C-506 C-507 C-508 C-509 PACKAGE 3: DE C-601 C-602 C-603 PACKAGE 3: DE C-611 C-612 C-613	WORK ZONE TRAFFIC CONTROL NOTES, LEGEND AND ABBREVIATIONS WORK ZONE TRAFFIC CONTROL DETAILS ETAILS: ESC DETAILS EROSION AND SEDIMENT CONTROL DETAILS EROSION AND SEDIMENT CONTROL DETAILS EROSION AND SEDIMENT CONTROL DETAILS ETAILS: EM&CP DETAILS WETLAND CROSSING DETAILS WETLAND WORKING SURFACES PLAN
C-501 C-502 C-503 C-504 C-505 C-506 C-507 C-508 C-509 PACKAGE 3: DE C-601 C-602 C-603 PACKAGE 3: DE C-611 C-612 C-613 PACKAGE 3: DE	WORK ZONE TRAFFIC CONTROL NOTES, LEGEND AND ABBREVIATIONS WORK ZONE TRAFFIC CONTROL DETAILS TAILS: ESC DETAILS EROSION AND SEDIMENT CONTROL DETAILS EROSION AND SEDIMENT CONTROL DETAILS EROSION AND SEDIMENT CONTROL DETAILS ETAILS: EM&CP DETAILS WETLAND CROSSING DETAILS WETLAND WORKING SURFACES PLAN TAILS: CONSTRUCTION AND INSTALLATION DETAILS
C-501 C-502 C-503 C-504 C-505 C-506 C-507 C-508 C-509 PACKAGE 3: DE C-601 C-602 C-603 PACKAGE 3: DE C-611 C-612 C-613 PACKAGE 3: DE	WORK ZONE TRAFFIC CONTROL NOTES, LEGEND AND ABBREVIATIONS WORK ZONE TRAFFIC CONTROL DETAILS ETAILS: ESC DETAILS EROSION AND SEDIMENT CONTROL DETAILS EROSION AND SEDIMENT CONTROL DETAILS ETAILS: EM&CP DETAILS WETLAND CROSSING DETAILS WETLAND WORKING SURFACES PLAN TRAFFIC CONTROL NOTE ON TRAFFIC CONTROL DETAILS WETLAND WORKING SURFACES PLAN TRENCHING DETAILS
C-501 C-502 C-503 C-504 C-505 C-506 C-507 C-508 C-509 PACKAGE 3: DE C-601 C-602 C-603 PACKAGE 3: DE C-611 C-612 C-613 PACKAGE 3: DE	WORK ZONE TRAFFIC CONTROL NOTES, LEGEND AND ABBREVIATIONS WORK ZONE TRAFFIC CONTROL DETAILS TAILS: ESC DETAILS EROSION AND SEDIMENT CONTROL DETAILS EROSION AND SEDIMENT CONTROL DETAILS EROSION AND SEDIMENT CONTROL DETAILS ETAILS: EM&CP DETAILS WETLAND CROSSING DETAILS WETLAND WORKING SURFACES PLAN TAILS: CONSTRUCTION AND INSTALLATION DETAILS
C-501 C-502 C-503 C-504 C-505 C-506 C-507 C-508 C-509 PACKAGE 3: DE C-601 C-602 C-603 PACKAGE 3: DE C-611 C-612 C-613 PACKAGE 3: DE	WORK ZONE TRAFFIC CONTROL NOTES, LEGEND AND ABBREVIATIONS WORK ZONE TRAFFIC CONTROL DETAILS ETAILS: ESC DETAILS EROSION AND SEDIMENT CONTROL DETAILS EROSION AND SEDIMENT CONTROL DETAILS ETAILS: EM&CP DETAILS WETLAND CROSSING DETAILS WETLAND WORKING SURFACES PLAN TRAFFIC CONTROL NOTE ON TRAFFIC CONTROL DETAILS WETLAND WORKING SURFACES PLAN TRENCHING DETAILS
C-501 C-502 C-503 C-504 C-505 C-506 C-507 C-508 C-509 PACKAGE 3: DE C-601 C-602 C-603 PACKAGE 3: DE C-611 C-612 C-613 PACKAGE 3: DE C-621 C-622	WORK ZONE TRAFFIC CONTROL NOTES, LEGEND AND ABBREVIATIONS WORK ZONE TRAFFIC CONTROL NOTES WORK ZONE TRAFFIC CONTROL DETAILS ETAILS: ESC DETAILS EROSION AND SEDIMENT CONTROL DETAILS EROSION AND SEDIMENT CONTROL DETAILS EROSION AND SEDIMENT CONTROL DETAILS ETAILS: EM&CP DETAILS WETLAND CROSSING DETAILS WETLAND WORKING SURFACES PLAN ETAILS: CONSTRUCTION AND INSTALLATION DETAILS TRENCHING DETAILS TYPICAL ACCESS ROAD CROSS SECTIONS
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	FRP LINK BOX HANDHOLES			
S-705	STRUCTURAL GENERAL NOTES AND ABBREVIATIONS			
S-715	HDD TRANSITION BOX MANHOLES DETAILS			
S-720	REINFORCING TRAY OVER UTILITIES			
S-721	REINFORCING TRAY DETAILS			
S-771	FRP COMMUNICATION HANDHOLES			
PACKAGE 3: ELE	3: ELECTRICAL PLANS			
C-801	ABOVE GROUND MARKING DETAILS			
C-807	SPLICE VAULT AND CABLE MARKING DETAILS			
C-808	TYPICAL OPEN PIT SPLICE CASING DETAILS			
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C-809	PACKAGE 3: COMMUNICATIONS PLANS			
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IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

	0	04/05/2023	FINAL EM&CP SUBMISSION	JJE	JPR	CHAMPLAIN HUDSON POWER EXSEGMENTS 4 & 5 (PACKAGE 3) - CP: FORT EDWAR SHEET INDEX
f	No.	DATE		DB	ADD	SCALE
	INU.	DAIE	SUBMITTAL / REVISION DESCRIPTION	סט	APP	DRAWN BY: JJE DESIGNED BY: JTM APPROVED BY: JPR REV. NO.

LAIN HUDSON POWER EXPRESS & 5 (PACKAGE 3) - CP: FORT EDWARD TO MILTON SHEET INDEX

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

G-001

AS NOTED DATE

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

- 12. CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF WORK IN CONFORMANCE WITH REFERENCE SECTION 4.4.6 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 AND COVER TO BE SET AT ELEVATIONS CONSISTENT WITH THE PROJECT DETAILS.
- 15. TEMPORARY PAVEMENT SHALL BE PLACED WITHIN 48 HOURS OF COMPLETION OF BACKFILL OPERATIONS WITHIN THE EXISTING PAVEMENT LIMITS.
- 16. CONTRACTOR SHALL MAINTAIN ALL TRAFFIC IN ALL AREAS IN ACCORDANCE WITH THE NYSDOT MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- 17. ALL EXCAVATIONS SHALL BE PROTECTED AT THE END OF EACH WORK DAY PER OSHA AND NYSDOT REQUIREMENTS.
- 18. WITHIN NYSDOT ROW ALL OPEN EXCAVATIONS TO BE PROTECTED BY CONCRETE BARRIERS (ON BOTH SIDES AT COMMERCIAL AND/OR RESIDENTIAL DRIVEWAYS) 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 FOLLOW SPECIFICATIONS AND PROVISIONS OF ANY EXECUTED AGREEMENT WITH UTILITY OWNERS AND OPERATORS.
- 20. DEPTH OF BURY FOR EXISTING CABLED UTILITIES FIBER / ELECTRICAL / TELECOM AND WATERLINES UNKNOWN. ASSUMED DEPTH OF BURY FOR CABLED UTILITIES IS 30" UNLESS OTHERWISE SHOWN. ASSUMED DEPTH OF BURY FOR WATERLINES IS 5' UNLESS OTHERWISE SHOWN.
- 21. CONTRACTOR TO COORDINATE ALL DRIVEWAY CROSSINGS WITH THE PROPERTY OWNERS PRIOR TO EXCAVATING. ACCESS TO ALL DRIVEWAYS FOR THE RESIDENTIAL AND COMMERCIAL PROPERTIES WILL NEED TO BE MAINTAINED DURING THE PROJECT. ALL EXCAVATIONS IN THE ENTRANCES/DRIVEWAYS WILL NEED TO BE BACKFILLED AT THE END OF EACH WORKDAY. OR STEEL PLATES SHALL BE INSTALLED TO ALLOW ACCESS DURING CONSTRUCTION. REFER TO THE EM&CP FOR EMERGENCY ACCESS MANAGEMENT PLAN.
- 22. ALL WORK WITHIN AGRICULTURAL LANDS WILL BE PERFORMED IN COMPLIANCE WITH APPLICABLE NEW YORK STATE DEPARTMENT OF AGRICULTURE AND MARKETS (NYSDAM) GUIDANCE INCLUDING "NYSDAM GUIDELINES FOR CONSTRUCTION MITIGATIONS FOR AGRICULTURAL LANDS IN AGRICULTURAL AREAS". RESTORATION WORK WILL FOLLOW APPLICABLE SECTIONS OF NYSDAM GUIDANCE "FERTILIZING LIME, AND SEEDING RECOMMENDATIONS FOR RESTORATION OF CONSTRUCTION PROJECTS ON FARMLAND IN NYS".
- 23. SERVICE CONNECTIONS TO BE FIELD LOCATED PRIOR TO CONSTRUCTION.
- 24. REFER TO EM&CP DOCUMENT FOR ADDITIONAL ITEMS FOR ALL GENERAL NOTES.
- 25. PVC/HDPE TRANSITION COUPLING LOCATION TO BE COORDINATED BETWEEN TRENCH AND HDD CONTRACTORS.

EROSION CONTROL NOTES

- 1. SEE C-400 SERIES OF SHEETS FOR EROSION AND SEDIMENT CONTROL SHEETS.
- 2. LAND DISTURBING ACTIVITIES SHALL NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN RECEIVED BY GOVERNING AUTHORITIES.
- 3. THE GENERAL CONTRACTOR SHALL STRICTLY ADHERE TO THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND FOLLOW THE EM&CP DOCUMENTS DURING CONSTRUCTION OPERATIONS.
- 4. NO LAND CLEARING OR GRADING SHALL BEGIN UNTIL ALL PERIMETER EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED. (WETLAND PROTECTION FENCE, SILT FENCE AND STABILIZED CONSTRUCTION ENTRANCE)
- 5. SITE DISTURBANCE SHALL NOT EXCEED FIVE (5) ACRES OF SOIL AT ANY ONE TIME WITHOUT PRIOR WRITTEN AUTHORIZATION FROM NYSDEC DIVISION OF WATER.
- 6. ALL EXPOSED AREAS SHALL BE SEEDED AND MULCHED AS SPECIFIED WITHIN 14 DAYS OF FINAL GRADING. FOR DISTURBED WETLAND AND SENSITIVE AREAS, AREA TO BE RESTORED IN ACCORDANCE WITH THE EM&CP SECTIONS 9.1 AND 14.
- 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 9.1 AND 14.
- 8. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN (7) DAYS OR MORE FREQUENTLY IF REQUIRED. ALL MAINTENANCE REQUIRED BY INSPECTION SHALL COMMENCE WITHIN 24 HOURS AND BE COMPLETED WITHIN 48 HOURS OF REPORT.
- 9. THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE GENERAL CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE.
- 10. GENERAL CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
- 11. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY FOLLOWING SITE INSPECTION. THE SWPPP AND/OR ENVIRONMENTAL INSPECTOR HAS THE AUTHORITY TO REQUIRE ADDITIONAL EROSION CONTROL MEASURES IF THE INSPECTOR DEEMS NECESSARY.
- 12. GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO TAKE REASONABLE MEANS NECESSARY TO ESTABLISH PERMANENT SOIL STABILIZATION.
- 13. AT THE END OF EACH WORK DAY DISTURBED SOILS ARE TO BE REGRADED TO DRAIN INTO THE TEMPORARY DIVERSION SWALES AND DISCHARGES FROM DEWATERING ACTIVITIES ARE TO BE DIRECTED INTO CATCH BASINS OR SWALES.
- 14. CONCRETE WASHOUTS DEPICTED ON PLANS ARE FOR REFERENCE ONLY. CONTRACTOR TO FIELD LOCATE WASHOUTS AS NECESSARY. FIELD LOCATED WASHOUTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE EM&CP AND SHALL BE A MINIMUM OF 100' FROM ADJACENT WETLANDS AND 200' FROM ANY EXISTING



AS NOTED DATE







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SUBMITTAL / REVISION DESCRIPTION

04/05/2023	FINAL EM&CP SUBMISSION	JJE	JPR	
				GENERAL NOTES
				GENERAL NOTES
				SEGMENTS 4 & 5 (PACKAGE 3) - CP: FORT EDWARD TO MILTON
				CHAMPLAIN HUDSON POWER EXPRESS
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DB | APP | DRAWN BY: JJE | DESIGNED BY: JTM | APPROVED BY: JPR | REV. NO

KIEWIT PROJECT NO.

21162

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066076

DRAWING NO.

G-002

1.a. CANADIAN PACIFIC RAILWAY — UTILITY SPECIFICATIONS AND APPLICATION PROCESS (US) — HTTPS: //WWW.CPR.CA/EN/CHOOSE—RAIL—SITE/DOCUMENTS/CP—UTILITY—SPECS—AND—APPLICATION—PROCESS.PDF

1.b. AMERICAN RAILWAY ENGINEERING AND MAINTENANCE OF WAY ASSOCIATION (AREMA) MANUAL FOR RAILWAY ENGINEERING

GENERAL HORIZONTAL DIRECTIONAL DRILLING NOTES:

- 1. UNLESS NOTED OTHERWISE ON C-300 SERIES HDD PLAN AND PROFILES, EACH HDD CONSISTS OF A PAIR OF (2) HVDC ELECTRICAL TRANSMISSION CABLES HOUSED IN INDIVIDUAL 10" DIAMETER CASINGS/CONDUITS, HDPE DR9, AND A THIRD 2" DIAMETER CASING/CONDUIT, HDPE DR9, WILL BE BUNDLED IN PULLBACK WITH ONE OF THE 10" CASINGS/CONDUITS FOR A TELECOMMUNICATION LINE.
- 2. THERMAL RESISTIVITY (TR) HORIZONTAL SPACING TO BE MAINTAINED IN PLAN BETWEEN CONDUIT 1 AND CONDUIT 2 IS CALLED OUT AS "TRDS" APPENDED TO A DIMENSION IN BETWEEN CONDUITS IN PLAN VIEWS, WHERE TRDS IS THE THERMAL RESISTIVITY DESIGN SPACING. TRDS IS DERIVED FROM AN ASSIGNED RHO (GREEK CHARACTER r FOR TR) AND ON DESIGN DEPTH FOR THE PAIR OF CONDUITS IN SHOWN PROFILE. RHO AND TRDS ARE DETERMINED BY ELECTRICAL ENGINEERING ON THE BEHALF OF THE OWNERS.
- 3. THE HDD CONTRACTOR SHALL HOLD THE TRDS IN THEIR OPERATIONS WITHIN THE HORIZONTAL TOLERANCES SPECIFIED IN SECTION 330507.13. IN CONSTRUCTION, THE SPACING SHALL BE CONTROLLED, OBSERVED, AND MAINTAINED SUCH THAT THE AS—BUILT SPACING SHALL NEVER BE LESS THAN TRDS MINUS 10 FEET, ABSOLUTE MINIMUM.
- 4. HDD SUBCONTRACTOR SHALL COORDINATE WITH OVERHEAD ELECTRIC
 OWNER/OPERATOR(S) TO HAVE TEMPORARY PROTECTIVE SLEEVES INSTALLED
 ON OVERHEAD POWER LINES IN THE VICINITY OF WORKZONES.

 5. STANDARD DENETRATION TEST SRT NEVALUES SHOWN ON THE C-300
- 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.

NATIONAL GRID NOTES

- 1. THE CONTRACTOR SHALL OBSERVE AND ABIDE BY THE APPLICABLE POWER LINE SAFETY REGULATIONS 29 C.F.R.§ 1926.1406—1926.1411.
- THE CONTRACTOR SHALL TRAIN THE EMPLOYEES WORKING AS DEDICATED SPOTTERS IN ACCORDANCE WITH 29 C.F.R.§ 1926.1408(G)(2).
- 3. CONSTRUCTION UNDER TRANSMISSION LINES REQUIRES A DEDICATED SPOTTER, AS APPLICABLE.
- 4. THE CONTRACTOR SHALL SUBMIT QUALIFIED INDIVIDUALS' RESUMES TO NATIONAL GRID.

CANADIAN PACIFIC RAILWAY (CPR) - GENERAL CONSTRUCTION NOTES

CONSTRUCTION REQUIREMENTS

1. LOCATES & UTILITIES

- a. THE CONTRACTOR IS REQUIRED TO OBTAIN AND MAINTAIN LOCATES FOR THE ENTIRE WORKING AREA PRIOR TO COMMENCING ANY EXCAVATION OR SUBSURFACE WORK.
- b. FIBRE OPTIC LOCATES MUST BE REQUESTED THROUGH THE CP OPERATIONS DESK AT 1-800- 387-1833. FIBRE OPTICS ARE LOCATED PARALLEL TO THE ROW THROUGHOUT MOST OF THE RAILWAYS NETWORK.
- c. FIBRE OPTIC CABLES MUST BE PROTECTED, AND PHYSICALLY EXPOSED WHERE DIRECTED BY THE FIBRE OPTIC OWNERS REPRESENTATIVE.
- d. RAILWAY SIGNAL LOCATES MUST ALSO BE OBTAINED THROUGH THE CP OPERATIONS DESK.

e. ALL OTHER UTILITY LOCATES MUST BE OBTAINED THROUGH THE UTILITIES DIRECTLY,

OR THROUGH A ONE—CALL SERVICE AS APPROPRIATE.

f. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROPERLY LOCATING, PROTECTING AND RESTORING ANY UTILITIES WITHIN RAILWAY PROPERTY.

2. SETBACKS

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

3. CROSSING TRACKS

- a. PERSONNEL MAY ONLY CROSS TRACKS ON FOOT WHEN AUTHORIZED BY THE FLAGMAN UNLESS USING A DESIGNATED PUBLIC CROSSING. CROSS THE TRACKS AT A 90 DEGREE ANGLE, AND NEVER STEP ON THE RAIL.
- b. THE OPERATION OF ANY MACHINERY, VEHICLE OR EQUIPMENT ON OR ACROSS TRACKS AT A LOCATION OTHER THAN A DESIGNATED CROSSING IS PROHIBITED.
- TRACKS AT A LOCATION OTHER THAN A DESIGNATED CROSSING IS PROHIBITED.

 c. TEMPORARY CROSSINGS SHALL ONLY BE INSTALLED WHERE AUTHORIZED BY CP, AND
- SHALL COMPLY WITH ALL APPLICABLE CROSSING SAFETY REGULATIONS.

 d. TEMPORARY CROSSINGS WILL BE INSTALLED AND REMOVED BY CP FORCES, AND
- SHALL NOT BE CONSTRUCTED OR USED UNLESS A SIGNED AGREEMENT IS IN EFFECT.

 e. TEMPORARY CROSSINGS MUST BE SECURED BY A LOCKED GATE ON BOTH SIDES OF THE TRACK AT ALL TIMES THAT THE FLAGMAN IS NOT PRESENT.
- f. WHEN CROSSING TRACKS AT A CROSSING, CONTACT WITH THE RAIL BY MACHINERY TRACKS OR OTHER METAL COMPONENTS IS STRICTLY PROHIBITED. BLASTING MATS OR OTHER MEANS MUST BE INSTALLED TO PREVENT MECHANICAL CONTACT BETWEEN
- METAL SURFACES AND THE RAILS.

 g. CROSSINGS MUST BE KEPT CLEAR OF MATERIAL, MUD OR DEBRIS. THE CROSSING MUST BE INSPECTED AND CLEANED AS REQUIRED, WITH PARTICULAR ATTENTION TO THE FLANGEWAYS, PRIOR TO THE PASSAGE OF EACH TRAIN.
- h. THE CONTRACTOR MUST ENSURE THAT BOTH RAILS OF THE SAME TRACK ARE NEVER CONNECTED WITH ANY METAL CONDUCTOR (SUCH AS BARE WIRE, STEEL TAPE MEASURES, EQUIPMENT, ETC).

4. HOUSEKEEPING

- a. THE PROJECT SITE MUST BE KEPT CLEAN AND TIDY. DEBRIS MUST BE PROMPTLY REMOVED.
- b. STORAGE OF MATERIALS ON RAILWAY PROPERTY IS PROHIBITED.
- c. POSITIVE DRAINAGE AWAY FROM THE TRACKS MUST BE MAINTAINED AT ALL TIMES.
 d. ALL SCAFFOLDING, FALSEWORK, FORMWORK, PROTECTIVE COVERINGS ETC. MUST BE
- SECURED AGAINST MOVEMENT DURING THE PASSAGE OF TRAINS AT TRACK SPEED.

 e. OPEN EXCAVATIONS MUST BE PROTECTED BY SIGNAGE AND FENCING. CONSIDERATION
- e. OPEN EXCAVATIONS MUST BE PROTECTED BY SIGNAGE AND FENCING. CONSIDERATION MUST BE GIVEN TO THE SAFETY OF TRAIN CREWS WHO MAY BE REQUIRED TO WALK THROUGH THE WORK SITE AT NIGHT.
- f. WHEREVER PRACTICAL, OPEN EXCAVATIONS SHALL BE FULLY COVERED AND SECURED IN LIEU OF FENCING.
- g. STORAGE OF EQUIPMENT AND MACHINERY ON RAILWAY PROPERTY IS PROHIBITED.

 b. TRACKS MUST BE PROTECTED FROM DEBRIS DURING WORK OPERATIONS BLYW
- h. TRACKS MUST BE PROTECTED FROM DEBRIS DURING WORK OPERATIONS. PLYWOOD, FILTERCLOTH OR OTHER MEASURES SHALL BE INSTALLED AT THE DIRECTION OF THE RAILWAY TO PREVENT CONTAMINATION OF THE TRACK BALLAST.
- i. THE CONTRACTOR SHALL BE LIABLE FOR ANY COST INCURRED BY THE RAILWAY TO RESTORE FOULED TRACK BALLAST.

5. WEATHER RESTRICTIONS

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







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04/05/2023 FINAL EM&CP SUBMISSION

DATE SUBMITTAL / REVISION DESCRIPTION

	CHAMPLAIN HUDSON POWER EXPRESS
	SEGMENTS 4 & 5 (PACKAGE 3) - CP: FORT EDWARD TO MILTON —
	PACKAGE SPECIFIC NOTES

DB | APP | DRAWN BY: XXX | DESIGNED BY: XXX | APPROVED BY: XXX | REV. NO.

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KIEWIT PROJECT NO. 21162 CHA PROJECT NO.

DRAWING NO.

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CONCRETE BOUNDARY

LEGEND & ABBREVIATIONS

EXIST. WETLANDS

SIGN EXIST. FIBER OPTIC LINE HANDHOLE EXISTING SIGN EXIST. FIBER OPTIC LINE PEDESTAL EXIST. STRUCTURE POST EXIST. STRUCTURE MAILBOX EXIST. FIBER OPTIC LINE DOGHOUSE EXIST. FIBER OPTIC LINE MANHOLE EXIST. GAS LINE EXIST. UNDERGROUND TELE. EXIST. FIBER OPTIC LINE VAULT — — UT — — UT — EXIST. FIBER OPTIC LINE BORE PIT EXIST. FIBER OPTIC — F0 — F0 — EXIST. OVERHEAD TELE. EXIST. FIBER OPTIC LOCK BOX — — ot — — ot — EXIST. GROUND ROD EXIST. UNDERGROUND ELEC. — — UE — — UE — FIBER MARK EXIST. FIBER OPTIC MARKER POST EXIST. OVERHEAD ELEC. — OE — OE — FIBER BOX EXIST. FIBER OPTIC BOX EXIST. CULVERT — — ST — — ST — 100 EXIST. FIBER STORAGE EXIST. SANITARY SEWER — — ss — — ss — -Q-^{HYD} EXIST. FIRE HYDRANT EXIST. STORM SEWER — — ST — — ST — EXIST. WATER VALVE EXIST. POTABLE WATER LINE — — w — — w — EXIST. FUEL LINE EXIST. WATER MANHOLE ------FUEL------WATER MARK EXIST. RAILROAD TRACK EXIST. WATER MARKER ⊗ CERTIFIED ROUTE MP XX EXIST. SANITARY SEWER MANHOLE ○ VENT $\otimes rac{\mathit{RANDALL}}{\mathit{MP}} rac{\mathit{PREFERRED}}{\mathit{XX}}$ RANDALL PREFERRED PROVIDED BY CHPE KMZ EXIST. SANITARY SEWER VENT _____ EXIST. STORM SEWER MANHOLE EXIST. CONTOUR, INDEX EXIST. STORM SEWER CATCH BASIN _____ EXIST. CONTOUR, DEPRESSION INDEX ~~~~~ EXIST. CULVERT INVERT EXIST. CONTOUR, INTERMEDIATE ~~~~~ EXIST. GAS MANHOLE \times 139.7 EXIST. GAS VALVE EXIST. SPOT ELEVATION EXIST. GAS MARKER EXIST. DEBRIS EXIST. GAS PIPELINE VENT EXIST. FIELD LINE EXIST. LIGHT POLE EXIST. LANDSCAPE AREA EXIST. UTILITY POLE EXIST. PILE EXIST. ELEC. POLE EXIST. STORAGE AREA EXIST. TRAFFIC LIGHT EXIST. NATURAL BOULDER EXIST. ELEC. METER EXIST. NATURAL SHRUB LINE EXIST. ELEC. MANHOLE EXIST. NATURAL TREE LINE EXIST. ELEC. TRANSFORMER \Diamond \Diamond \circ EXIST. NATURAL SINGLE TREE/BUSH EXIST. ELEC. VAULT EXIST. STRUCTURAL BUILDING EXIST. ELEC. HANDHOLE EXIST. PAVED DRIVE EXIST. ELEC. PEDESTAL/BOX EXIST. PAVED ROAD EXIST. ELEC. MARKER POST EXIST. PAVED SHOULDER EXIST. ELEC. GUY ANCHOR/WIRE EXIST. PAVED SIDEWALK EXIST. TELE. RISER/BOX EXIST. GUARDRAIL EXIST. TELE. MANHOLE EXIST. TRAIL EXIST. TELE. HANDHOLE EXIST. FENCE EXIST. TELE. VAULT EXIST. WALL EXIST. TELE. PEDESTAL EXIST. RETAINING WALL EXIST. TELE. DOGHOUSE TELEPHONE
MARK EXIST. TELE. MARKER POST △ 154,3550 202 EXIST. TELE. JUNCTION BOX EXIST. TRAFFIC SIGNAL BOX EXIST. RIGHT-OF-WAY EXIST. CELL TOWER EXIST. ABUTTER ________ EXIST. CABLE BOX EXISTING MANHOLE UNKNOWN NOTE: EXISTING UTILITY BOX UNKNOWN EXISTING ANTENNA STOCKPILES MATERIAL, EQUIPMENT STORAGE, ACCESS, PARKING, GRADING, CAPPED IRON ROD EXISTING CAPPED IRON ROD

CERTIFIED ROUTE PROVIDED BY CHPE KMZ EXIST. CONTOUR, DEPRESSION INTERMEDIATE

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

		• " •	7.1.1.10.7.25
◆ ^{XX-#}	EXIST. WETLAND FLAG	CL	CENTERLINE
	PEM - PALUSTRINE EMERGENT	CMP	CORRUGATED METAL PIPE
7///	PSS - PALUSTRINE SCRUB-SHRUB	CONC	CONCRETE
	PFO — PALUSTRINE FORESTED	DB	DESIGNED BY
	PUB - PALUSTRINE UNCONSOLIDATED BOTTOM	DEC	NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
. * . * . * *	L1 - LACUSTRINE LIMNETIC	DEG	DEGREES
· <u>·</u> ··· <u>·</u> ··· <u>·</u> ··	L2 - LACUSTRINE LITTORAL	DR	DRIVE
	NYSDEC FWW 100-FOOT ADJACENT BUFFER AREA	DZ	DEVIATION ZONE
	GIS HISTORICAL WETLAND BOUNDARY	Е	EASTING
	ESA 5 HABITAT (AVOID)	ELECTRIC	ELECTRIC CABLE
+ + + +	ESA 5 HABITAT	ELEV	ELEVATION
	200' ESA 5 BUFFER	EXIST	EXISTING
	JD BOUNDARY	FIBER	FIBER OPTIC CABLE
WP	PROP. WETLAND PROTECTION FENCE	FT	FEET
FS	PROP. COMPOST FILTER SOCK (OR SILT SOCK)	GAS	GAS PIPE
140	PROP. TEMP MAJOR CONTOUR	Н	HORIZONTAL
	PROP. TEMP MINOR CONTOUR	HDD	HORIZONTAL DIRECTIONAL DRILLING
Low	PROP. LIMITS OF WORK/DISTURBANCE	HVDC	HIGH-VOLTAGE DIRECT CURRENT TRANSMISSION LINE
	PROP. LIMITS OF CLEARING/LIMITS OF WORK IN CLEARING AREAS	INV	INVERT ELEVATION
		LOW	LIMITS OF WORK
	PROP. CONCRETE WASHOUT	LT	LEFT
	PROP. TEMP ACCESS ROAD RTE (EXISTING ROAD OR SURFACE)	MAX	MAXIMUM
	PROP. TEMP REFURBISHED ACCESS ROAD	MIN	MINIMUM
	PROP. TEMP ACCESS ROAD OR OFF SITE ACCESS ROAD	N	NORTHING
	PROP. TEMP TIMBER MATTING OR TEMP GEOTEXTILE FABRIC AND STONE	NO NO	NUMBER
		NY	NEW YORK
<u>'— —</u> _	PROP. SPLICE LOCATION	P#	PACKAGE #
	PROP. SPLICE VAULT	PERM	PERMANENT
	PROP. LINK BOX HANDHOLE	PROP.	PROPOSED
	PROP. FIBER SPLICE HANDHOLE	PVC	POLYVINYL CHLORIDE
◆	PROP. BORING LOCATION	PVI	POINT OF VERTICAL INTERSECTION
XXXXX+XX	PROP. ALIGNMENT STATIONING	R	RADIUS
	PROP. ALIGNMENT CENTERLINE	RCP	REINFORCED CONCRETE PIPE
	PROP. LAYDOWN YARDS, PARKING, STORAGE & MUSTER AREA	RD	ROAD
<u> </u>	PROP. WORK AREAS	REV	REVISION
		ROW	RIGHT-OF-WAY
	PROP. TEMP EASEMENT	RT	RIGHT
	PROP. PERM EASEMENT	RTE	ROUTE
	PROP. TEMP ACCESS EASEMENT	SEWER	SANITARY SEWER PIPE
	THOIL TEIM MODES EMELLIT	SH	SHEET
		ST	STREET
		STA	STATION
		STORM	STORM DRAIN PIPE
		TELECOM	TELECOMMUNICATIONS CABLE
		TEMP	TEMPORARY
		TR	THERMAL RESISTIVITY
		TYP	TYPICAL

APPROVED





EXISTING IRON PIPE

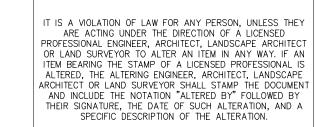
EXISTING POST

EXISTING SYMBOL

EXISTING CONCRETE MONUMENT

EXISTING REFLECTOR MARKER





		CHAMPLAIN HUDSON POWER EXPRESS SEGMENTS 4 & 5 (PACKAGE 3) - CP: FORT EDWARD TO MILT
		LECEND AND ADDDEVIATIONS
		LEGEND AND ABBREVIATIONS

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

G-004

X SH.NO.

JJE JPR 04/05/2023 FINAL EM&CP SUBMISSION AS NOTED DATE DB APP DRAWN BY: XXX DESIGNED BY: XXX APPROVED BY: XXX REV. NO. DATE SUBMITTAL / REVISION DESCRIPTION

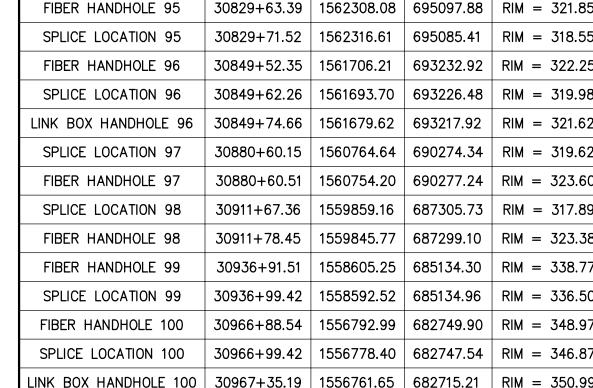
TYP

WATER

TYPICAL

VERTICAL

WATERLINE



Splice Location & Structure Table

Northing | Easting | Finished Grade

 $30998+88.51 \mid 1554622.63 \mid 680457.20 \mid RIM = 338.85$

 $30998+90.56 \mid 1554630.08 \mid 680447.16 \mid RIM = 342.369$

31023+35.64 | 1552891.12 | 678732.35 | RIM = 332.22

31023+47.92 | 1552875.05 | 678731.31 | RIM = 330.28

31055+42.98 | 1550524.39 | 676599.33 | RIM = 327.86

| 31055+54.15 | 1550509.81 | 676602.81 | RIM = 326.20

| 31066+87.15 | 1549426.10 | 676310.75 | RIM = 320.26

31067+38.36 | 1549375.99 | 676298.08 | RIM = 322.22

 $31094+46.24 \mid 1546695.78 \mid 675964.57 \mid RIM = 316.97$

31094+60.01 | 1546680.03 | 675971.02 | RIM = 316.24

Structure Name

SPLICE LOCATION 101

FIBER HANDHOLE 101

FIBER HANDHOLE 102

SPLICE LOCATION 102

FIBER HANDHOLE 103

SPLICE LOCATION 103

SPLICE LOCATION 104

FIBER HANDHOLE 104

FIBER HANDHOLE 105

SPLICE LOCATION 105

	Splice Location & Structure Table				
Structure Name	Station	Northing	Easting	Finished Grade	
FIBER HANDHOLE 106	31115+45.68	1544712.94	675290.82	RIM = 312.86	
SPLICE LOCATION 106	31115+54.25	1544701.28	675296.94	RIM = 315.24	
FIBER HANDHOLE 107	31147+58.85	1541704.43	674237.89	RIM = 320.53	
SPLICE LOCATION 107	31147+68.70	1541693.60	674246.83	RIM = 319.41	
FIBER HANDHOLE 109	31174+43.51	1539031.49	674307.36	RIM = 316.45	
SPLICE LOCATION 109	31174+49.67	1539025.34	674317.36	RIM = 317.87	
LINK BOX HANDHOLE 110	31209+75.69	1535500.97	674394.81	RIM = 319.13	
FIBER HANDHOLE 110	31210+02.73	1535473.48	674375.03	RIM = 318.27	
SPLICE LOCATION 110	31210+04.53	1535471.90	674385.06	RIM = 314.81	
FIBER HANDHOLE 111	31239+92.15	1532660.22	673615.95	RIM = 318.74	
SPLICE LOCATION 111	31240+03.77	1532645.10	673618.48	RIM = 315.99	
FIBER HANDHOLE 112	31254+89.69	1531447.44	672749.25	RIM = 309.86	
SPLICE LOCATION 112	31255+00.95	1531432.32	672749.96	RIM = 307.66	
FIBER HANDHOLE 113	31282+78.11	1529300.31	670999.29	RIM = 325.21	
SPLICE LOCATION 113	31282+91.12	1529283.91	670998.61	RIM = 321.93	
FIBER HANDHOLE 114	31310+65.87	1527010.44	669431.73	RIM = 304.21	
SPLICE LOCATION 114	31310+75.30	1526997.19	669435.40	RIM = 298.87	
FIBER HANDHOLE 115	31337+30.45	1524462.24	668930.79	RIM = 237.59	
SPLICE LOCATION 115	31337+44.23	1524448.48	668919.15	RIM = 232.36	
LINK BOX HANDHOLE 115	31337+51.81	1524440.88	668931.09	RIM = 235.01	
SPLICE LOCATION 116	31366+44.59	1521591.06	669169.01	RIM = 287.62	
FIBER HANDHOLE 116	31366+45.16	1521590.29	669159.02	RIM = 291.18	
FIBER HANDHOLE 117	31383+10.55	1519931.77	669077.97	RIM = 281.43	
SPLICE LOCATION 117	31383+24.76	1519916.66	669086.54	RIM = 279.32	

LINK BOX HANDHOLE 105 | 31094+71.30 | 1546671.32 | 675959.08 | RIM = 317.48

Splice Location & Structure Table Northing | Easting | Finished Grade Structure Name FIBER HANDHOLE 65 $30019+45.23 \mid 1625175.60 \mid 742699.19 \mid RIM = 142.19$ LINK BOX HANDHOLE 65 | 30019+56.75 | 1625154.36 | 742708.98 | RIM = 141.69 30019+59.01 | 1625158.58 | 742699.26 | RIM = 139.77 SPLICE LOCATION 65 FIBER HANDHOLE 66 30051+91.65 | 1622530.83 | 740816.53 | RIM = 142.23 SPLICE LOCATION 66 $30052+04.01 \mid 1622514.96 \mid 740817.57 \mid RIM = 139.83$ FIBER HANDHOLE 67 $30083+37.48 \mid 1620103.19 \mid 738848.00 \mid RIM = 133.26$ 30083+49.42 | 1620087.63 | 738848.69 | RIM = 131.41 SPLICE LOCATION 67 FIBER HANDHOLE 68 30101+80.52 | 1618641.52 | SPLICE LOCATION 68 30101+86.44 | 1618630.06 | 737766.12 | RIM = 137.54 SEE A-P3 TABLE $30181+70.10 \mid 1612367.11 \mid 733190.12 \mid RIM = 147.44$ FIBER HANDHOLE 71 SPLICE LOCATION 71 30181+84.84 | 1612349.62 | 733193.46 | RIM = 147.09 FIBER HANDHOLE 72 30208+02.82 | 1609922.44 | 732243.92 | RIM = 143.52 SPLICE LOCATION 72 $30208+06.04 \mid 1609917.13 \mid 732254.33 \mid RIM = 140.04$ FIBER HANDHOLE 73 30237+68.59 | 1606995.69 | 731781.96 | RIM = 136.58 30237+83.43 | 1606979.89 | 731790.36 | RIM = 134.07 SPLICE LOCATION 73 30268+70.12 | 1604204.94 | 730564.93 | RIM = 158.45 FIBER HANDHOLE 74 SPLICE LOCATION 74 30268+84.55 | 1604187.40 | 730565.69 | RIM = 157.04 NK BOX HANDHOLE $74 \mid 30268+84.56 \mid 1604193.16 \mid 730556.55 \mid RIM = 158.50$

S	Finished Grade	Easting	Station Northing		Station	Structure Name		
F	RIM = 141.56	736845.77	34.47	3.47 161718	A-P3-35+8	FIBER HANDHOLE 69		
S	RIM = 131.40	736845.98	55.96	06.41 161716	A-P3-35+9	LOCATION 69	SPLICE I	
F	RIM = 141.26	736833.78	75.73	8.13 161717	A-P3-35+9	HANDHOLE 69	INK BOX	
S	RIM = 154.66	734248.44	48.41	0.00 16140	A-P3-77+0	LOCATION 70	SPLICE I	
LIN	RIM = 155.00	734234.16	53.74	3.34 16140	A-P3-77+0	ANHOLE 70	FIBER M	
				No.	9. Ctrustura Tab	Calica Location		
			1	oie	& Structure Tab	Splice Location 8		
		ned Grade	Finish	Easting	Northing	Station	lame	
FI		= 161.48	RIM :	728462.30	1601740.98	30301+16.60	OLE 75	
SF		= 159.02	RIM =	728467.76	1601732.09	30301+19.56	10N 75	
SF		= 164.83	RIM =	726688.15	1599768.62	30327+71.83	OLE 76	
FI		= 163.29	RIM =	726686.35	1599751.74	30327+85.54	10N 76	
SF		= 177.64	RIM =	724635.07	1597509.71	30358+24.82	OLE 77	
FI		= 175.83	RIM =	724633.68	1597493.27	30358+37.95	10N 77	
LINE		= 197.74	RIM =	723090.90	1595804.30	30381+26.61	OLE 78	
FI		= 194.07	RIM =	723089.93	1595788.33	30381+39.10	10N 78	

FIBER HANDHOLE /5	30301+16.60	1001740.90	720402.30	RIM = IOI.40
SPLICE LOCATION 75	30301+19.56	1601732.09	728467.76	RIM = 159.02
FIBER HANDHOLE 76	30327+71.83	1599768.62	726688.15	RIM = 164.83
SPLICE LOCATION 76	30327+85.54	1599751.74	726686.35	RIM = 163.29
FIBER HANDHOLE 77	30358+24.82	1597509.71	724635.07	RIM = 177.64
SPLICE LOCATION 77	30358+37.95	1597493.27	724633.68	RIM = 175.83
FIBER HANDHOLE 78	30381+26.61	1595804.30	723090.90	RIM = 197.74
SPLICE LOCATION 78	30381+39.10	1595788.33	723089.93	RIM = 194.07
LINK BOX HANDHOLE 78	30381+39.10	1595795.03	723082.51	RIM = 196.34
SPLICE LOCATION 79	30413+56.13	1593451.21	720900.16	RIM = 225.08
FIBER HANDHOLE 79	30413+58.97	1593439.09	720909.46	RIM = 227.54
FIBER HANDHOLE 80	30425+56.07	1592542.51	720133.68	RIM = 226.15
SPLICE LOCATION 80	30425+65.98	1592528.46	720134.57	RIM = 224.70
FIBER HANDHOLE 81	30455+10.35	1590354.84	718152.87	RIM = 242.45
SPLICE LOCATION 81	30455+18.50	1590342.05	718154.62	RIM = 241.20
FIBER HANDHOLE 82	30484+14.41	1588611.17	715852.12	RIM = 247.68
SPLICE LOCATION 82	30484+24.59	1588597.09	715849.80	RIM = 245.20
LINK BOX HANDHOLE 82	30484+50.31	1588588.89	715823.93	RIM = 247.47
SPLICE LOCATION 83	30516+55.21	1586371.62	713590.61	RIM = 262.89
FIBER HANDHOLE 83	30516+61.48	1586372.11	713578.82	RIM = 264.51

8		LINK
.0		FIE
.7		SP
9		FIE
51		SP
rai	4703	FIE
		SP
100	(C)	

PLAN	AND	PROFILE	KEY	MAP
	SC	ALE: $1" = 6000$)'	



- NORTHLINE RD

(PACKAGE 3) STA. 31384+74

END OF SEGMENT 4 & 5





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 ACTION ACTION ACTION ACTION ACTION AND ACTION ACTION AND ACTION ACTION AND ACTION ACTION ACTION AND ACTION A

0	04/05/2023	FINAL EM&CP SUBMISSION	JJE	JPR

CHAMPLAIN HUDSON POWER EXPRESS SEGMENTS 4 & 5 (PACKAGE 3) - CP: FORT EDWARD TO MILTON PLAN AND PROFILE KEY MAP KIEWIT PROJECT NO. 21162 CHA PROJECT NO. DRAWING NO.

G-005

AS NOTED DATE X SH.NO.

A-P3 - ALIGNMENT

LINK BOX

Structure Name

FIBER HANDHOLE 75

Splice Location & Structure Table

-START OF SEGMENTS 4 & 5 (PACKAGE 3 STA. 30015+00

Splice Location & Structure Table Northing | Easting | Finished Grade Structure Name 30542+04.81 1584271.52 712148.09 RIM = 270.39 FIBER HANDHOLE 84

SPLICE LOCATION 84 | 30542+15.60 | 1584256.96 | 712150.24 | RIM = 267.3430574+42.93 | 1581605.70 | 710322.58 | RIM = 278.61 SPLICE LOCATION 85 FIBER HANDHOLE 85 $30574+47.61 \mid 1581607.49 \mid 710311.68 \mid RIM = 280.43$ SPLICE LOCATION 86 30606+85.54 | 1578908.65 | 708531.72 | RIM = 301.50

FIBER HANDHOLE 86 30606+93.63 | 1578906.54 | 708518.13 | RIM = 304.69 NK BOX HANDHOLE 86 | 30607+04.05 | 1578886.10 | 708535.07 | RIM = 304.53 $30630+39.96 \mid 1576790.30 \mid 707525.73 \mid RIM = 310.78$ SPLICE LOCATION 87 $30630+51.39 \mid 1576784.10 \mid 707512.80 \mid RIM = 305.96$

30654+06.65 | 1574703.14 | 706429.13 | RIM = 312.51 FIBER HANDHOLE 88 SPLICE LOCATION 88 $30654+08.25 \mid 1574696.47 \mid 706438.60 \mid RIM = 309.23$ $30679+54.99 \mid 1572485.12 \mid 705213.79 \mid RIM = 315.17$ FIBER HANDHOLE 89

SPLICE LOCATION 89 $30679+66.92 \mid 1572469.92 \mid 705217.15 \mid RIM = 313.52$ FIBER HANDHOLE 91 $30715+03.33 \mid 1569340.31 \mid 703578.98 \mid RIM = 319.43$ 30715+14.70 | 1569325.60 | 703582.60 | RIM = 317.74 SPLICE LOCATION 91

30715+27.83 | 1569318.56 | 703567.68 | RIM = 318.89 BOX HANDHOLE 91 30748+04.28 | 1566519.07 | 701891.72 | RIM = 324.64 IBER HANDHOLE 92 PLICE LOCATION 92 30748+16.50 | 1566503.29 | 701892.22 | RIM = 322.69

IBER HANDHOLE 93 30772+24.40 | 1564763.03 | 700243.60 | RIM = 321.66 PLICE LOCATION 93 30772+35.47 | 1564748.30 | 700241.28 | RIM = 318.59 $30804+60.91 \mid 1563304.33 \mid 697391.54 \mid RIM = 320.00$

BER HANDHOLE 94 PLICE LOCATION 94 $\mid 30804+71.98 \mid 1563290.75 \mid 697385.38 \mid RIM = 317.36$

SCALE: I = 6000

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

S4/P3

S4/P3

S4/P3

S4/P3

S4/P3

S4/P3

S4/P3

S4/P3

S5/P3

S5/P3

S5/P3

64.-2-106.2

54.2-55.11, 78.-1-7, 78.-1-6, 78.-1-10, 78.-1-

93, 78.-1-63.1, 78.1-34

64.2-55-11, 64.-2-17, 78.-1-8.1, 78.-1-11, 78.-

-12, 78.-1-17.1, 78.-1-17.2, 78.-1-21.111, 78.-

25.12, 78.-1-25.13, 78.-1-26, 78.-1-93, 78.-1-

76.1, 78.-1-63.1, 78.1-34

78.-1-10

.-1-57, 91.-1-21.112, 91.-1-21.111, 91.-1-

1.-1-23, 91.-1-30, 91.-1-45.11, 91.-1-46,

91.1-45.4, 91.-1-45.2

91.-1-4, 91.91.-1-1.13, 91.-1-27.2

91.-1-5.1, 91.-1-26.11, 104.-1-2

103.-2-22.2

103.-2-10, 103.-3-64

03.-3-15.2, 103.-3-14.111, 103.-3-14.121,

103.-9-14.2, 103.-3-41, 103.3-3-61, 103.-3-

50, 116.-1-71, 116.-1-69.11, 116.-1-69.12,

116.-1-77, 116.-1-16, 116.-1-21

128.-1-83.11

141.-1-31.11

153.-2-29

152.-1-78.1

165.-1-5, 165.-1-4, 165.-1-25

203.-1-40.2

54, 91.-1-35.14

13, 78.-1-16.1, 78.-1-16.2, 78.-1-21.112, 78.-1 C-113 to C-121

1-21.112, 78.-1-21.121, 78.-1-25.11, 78.-1- C-113 to C-121

C-112 to C-113

C-115

C-121 to C-126

C-121 to C-126

C-126 to C-128

C-126 to C-128

C-131 to C-132

C-132 to C-134

C-132 to C-140

C-146 to C-147

C-153 to C-154

C-159 to C-160

C-167 to C-168

C-169 to C-171

C-186

30173+50 to 30188+00

30188+00 to 30313+00

30188+00 to 30215+00, 30223+50 to

30215+00 to 30223+50

30313+00 to 30379+00

30313+00 to 30379+00

30379+00 to 303410+00

30379+00 to 303431+00

30457+00 to 30473+00

30473+00 30497+00

30474+00 to 30595+00

30678+00 to 30702+00

30782+00 to 30810+00

30872+00 to 30889+00

31004+00 to 31012+00

31030+00 to 31062+00

31275+00 to 31284+00

Table 7.1 – Segments 4 & 5 – Package 3 Agricultural Lands Anticipated Impacts to Agricultural Activities/Land **Location Description** The majority of construction activity will take place within the RR ROW with the exception of the installation of an access road as described in Table 4.6, splice location 71 work area, and HDD#25 work area. Construction 65.-1-17, 65.-1-16.2, 64.-2-106.1 C-112 to C-113 30173+50 to 30188+00 South of West River Road, northwest of RR tracks ctivity is not anticipated to impact active agriculture activities. These parcels are registered with the Saratoga County Agricultural District. All impacts associated with construction will be restored in accordance with 14.5.

North of Clark Road, east/southeast of RR ROW

North of Clark Road, east/southeast of RR ROW

side of RR tracks

side of RR tracks

South of Mott Road, west/northwest side of RR tracks

South of Mott Road, east/southeast side of RR tracks

northwest of the RR tracks

South of Gurn Spring Road. Northwest of the RR tracks

South of Gurn Spring Road, southeast of the RR tracks

RR ROW

road. Both north and south of RR ROW

and south sides of RR ROW

Northeast of Bloomfield Road. Northwest of RR ROW

Southeast of Ballston Avenue near Old Ballston avenue.

Southeast side of RR ROW

or northwest of the RR ROW and is not anticipated to impact these agricultural lands that are registered with South of West River Road, southeast of RR tracks the Saratoga County Agricultural District. The majority of construction activity will take place within the RR ROW with the exception of the installation f temporary access roads, several HDD work areas, and several splice location work areas. These parcels are North of Clark Road, west/northwest of RR ROW

All of the construction activity associated with the installation of the alignment will occur within the RR ROW

registered with the Saratoga County Agricultural District. All impacts associated with construction will be restored in accordance with 14.5. All of construction activity will take place within the RR ROW or west/northwest of the RR ROW and is not

anticipated to impact these agricultural lands that are registered with the Saratoga County Agricultural The majority of construction activity will take place within the RR ROW or west/northwest of the RR ROW with the exception of the installation of an access road perpendicular to the RR ROW as described in Table

4.6. This parcel is registered with the Saratoga County Agricultural District. All impacts associated with

construction will be restored in accordance with 14.5. The majority of construction activity will take place within the RR ROW with the exception of the installation South of Clark Road and north of Mott Road. West/northwest of HDD#28 and HDD#29 work areas. These parcels are registered with the Saratoga County Agricultural District. All impacts associated with construction will be restored in accordance with 14.5. All of construction activity will take place within the RR ROW or west/northwest of the RR ROW and is not South of Clark Road and north of Mott Road. East/southeast anticipated to impact these agricultural lands that are registered with the Saratoga County Agricultural

> The majority of construction activity will take place within the RR ROW with the exception of the installation of HDD #30 work areas and splice location 78 work area. These parcels are registered with the Saratoga County Agricultural District. All impacts associated with construction will be restored in accordance with 14.5. All of construction activity will take place within the RR ROW or on the west/northwest or west/northwest of the RR ROW and is not anticipated to impact these agricultural lands that are registered with the Saratoga

County Agricultural District. The majority of construction activity will take place within the RR ROW except for a small portion of the South of Wilton Gansevoort Road north of Gurn Spring Road, alignment to be installed via trenching and the installation of an access road as described in Table 4.6. This parcel is registered with the Saratoga County Agricultural District. All impacts associated with construction will be restored in accordance with 14.5.

Construction impacts include the installation of the alignment via trenching and the installation of an access road as described in Table 4.6. These parcels are registered with the Saratoga County Agricultural District. All impacts associated with construction will be restored in accordance with 14.5.

All of the construction associated with the installation of the alignment will occur within the RR ROW or on

the northwest side of the RR tracks is not anticipated to impact these agricultural lands that are registered with the Saratoga County Agricultural District. he majority of construction associated with the installation of the alignment will occur within the RR ROW or Between Scout Road and Edie Road. North and south sides of on the northwest side of the RR ROW. All impacts associated with the work zone for HDD#33 will be fully

restored in accordance with Section 14.5. No impacts to the agricultural lands on the southeast side of the RR ROW are anticipated. he majority of construction associated with the installation of the alignment will occur within the RR ROW o directly adjacent to the north side of the ROW with the exception of vegetation and tree clearing, and HDD#36 outheast of Putnam Lane and northeast and southeast of Jones work areas. All impacts associated with construction will be restored in accordance with Section 14.5. No

impacts to the agricultural lands on the south side of the RR ROW are anticipated. These parcels are

registered with the Saratoga County Agricultural District. e majority of construction associated with the installation of the alignment will occur within the RR ROW or directly adjacent to the north side of the ROW with the exception of vegetation and tree clearing, an access West of Jones Road and south of Smith Bridge Road, both north road as described in Table 4.6. This parcel is registered with the Saratoga County Agricultural District. All impacts associated with construction will be restored in accordance with 14.5. No impacts to the agricultural

lands on the south side of the RR ROW are anticipated.

Impacts to this parcel will be avoided by utilizing HDD#40.

ll of the construction activity associated with the installation of the alignment will occur within the RR ROW

or on the northwestern side of the RR ROW. No impacts to the agricultural lands on the southeast side of the

e majority of the construction activity associated with the installation of the alignment will occur within the West of Denton Road and North of Church Stree RR ROW with the exception of a small portion of an access road as described in Table 4.6. However, no North/Northwest of RR ROW construction activity will impact the active areas of agricultural use.

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 3 - AGRICULTURAL DISTRICT LANDS

Table 7.2 – Segments 4 & 5 – Package 3 Recreational Areas

Package			Anticipated Impact
S4/P3	New York State Forest	30623+00 to 30675+00	Minor impacts from construction associated with HDD#33 work zone.
S4/P3	Saratoga Sand Plains Wildlife Management Area	30654+00 to 30675+00	Minor impacts from construction associated with HDD#33 work zone.
S4/P3	Wildlife Management Area	30701+00 to 30717+00	Minor impacts from construction associated with an access road as described in Table 4.6.
S4/P3	Wilton Wildlife Preserve & Park	30720+00 to 30733+00	None
S4/P3	Wilton Town Gavin Park	30845+00 to 30858+00	None
S5/P3	Saratoga Golf & Pool Club	31046+00 to 31050+00	None
S5/P3	Doubleday Fields	31361+00 to 31371+00	Minor impacts from clearing as described in Table 8.4 and the construction of an access road as described in Table 4.6.
Note: T		recreational areas within this Package.	

PACKAGE 3 - RECREATIONAL AREAS

Table 8.4 – Tree and Vegetation Clearing Locations

		Start Location	Stop Location	Vegetation/ Tree	Applicable Environmental Sensitive
Description	Sheet Number	(Approximate	- See Drawings for Details)	Clearing Method Type	Area Requirements
Tree & Vegetation Clearing	C-102 to C-105	30017+00	30061+50	Type Type IV	N/A
Tree & Vegetation Clearing	C-102 to C-103	30065+50	30069+00	Type I and IV	Wetlands from 30068+50 to 30069+00
Tree & Vegetation Clearing	C-106	A-P3-5+00	A-P3-8+50	Type IV	N/A
Tree & Vegetation Clearing	C-107	A-P3-19+50	A-P3-21+00	Type IV	N/A
Tree & Vegetation Clearing	C-109	A-P3-36+50	A-P3-40+50	Type IV	N/A
Tree & Vegetation Clearing	C-112	A-P3-82+00	A-P3-84+25	Type I and IV	Wetlands from A-P3-83+50 to A-P3-84+25
Tree & Vegetation Clearing	C-112 to C-113	A-P3-89+00	30188+50	Type I and IV	Agricultural Lands, Wetlands from 30183+50 to 30188+50
Tree & Vegetation Clearing	C-114	30202+00	30202+00	Type IV	N/A
Tree & Vegetation Clearing	C-114	30206+50	30206+50	Type IV	N/A
Tree & Vegetation Clearing	C-115	30210+00	30212+50	Type IV	N/A
Vegetation Clearing	C-115	30220+50	30223+50	Type IV	N/A
Tree & Vegetation Clearing	C-213	30220+50	Along Access Drive	Type IV	Agricultural Lands
Tree & Vegetation Clearing	C-116 to C-117	30225+50	30231+50	Type I and IV	Agricultural Lands, Wetlands
Tree & Vegetation Clearing	C-117	30226+00	30233+50	Type I and IV	Wetlands
Tree & Vegetation Clearing	C-117 to C-118	30233+00	30241+50	Type I and IV	Wetlands
Tree & Vegetation Clearing	C-118 to C-119	30261+50	30282+00	Type I and IV	Agricultural Lands and Stream
Tree & Vegetation Clearing	C-120 to C-121	30294+50	30313+00	Type IV	Agricultural Lands, State Wetland Buffer Agricultural Lands, Wetlands, State Wetland
Tree & Vegetation Clearing	C-121 to C-122	30313+50	30319+00	Type I and IV	Buffer Agricultural Lands, Wetlands, State Wetland
Tree & Vegetation Clearing	C-122 to C-124	30325+00	30379+00	Type I and IV	Buffer Agricultural Lands, Wetlands, State Wetland
Tree & Vegetation Clearing	C-124 to C-126	30383+50	30389+00	Type I and IV	Buffer
Vegetation Clearing	C-127	30389+50	30392+50 (Around HDD#30 workzone)	Type I and IV	A gricultural Lands, Wetlands
Tree & Vegetation Clearing	C-128 to C-129	30411+50	30425+00	Type IV	N/A
Tree & Vegetation Clearing Tree & Vegetation Clearing	C-129	30430+00 30431+50	30430+50 30450+00	Type IV	N/A
Tree & Vegetation Clearing Tree & Vegetation Clearing	C-129 to C-130 C-131 to C-132	30431+50	30450+00 30473+00	Type IV Type I and IV	N/A Agricultural Lands, Wetlands
					Agricultural Lands, Wetlands Agricultural Lands, Wetlands, State Wetland
Tree & Vegetation Clearing	C-133 to C-137	30486+50	30546+00	Type I and IV	Buffer
Tree & Vegetation Clearing	C-138	30556+00	30566+00	Type I and IV	Wetlands
Tree & Vegetation Clearing	C-139	30572+00	30580+00	Type I and IV	Wetlands
Tree & Vegetation Clearing	C-140	30585+00	30595+00	Type I and IV	Wetlands
Tree & Vegetation Clearing	C-140 to C-142	30596+00	30620+00	Type IV	N/A
Tree & Vegetation Clearing	C-145 to C-149	30674+00	30722+00	Type I and IV	Agricultural Lands, Wetlands
Tree & Vegetation Clearing	C-150 to C-154, C-215	30744+50	30796+00 Including Access Road	Type I	Environmentally Sensitive Area
Tree & Vegetation Clearing	C-151 to C-152	30758+00	30777+00	Type I	Environmentally Sensitive Area
Tree & Vegetation Clearing	C-154 to C-156	30802+00	30840+00	Type IV	Agricultural Lands
Tree & Vegetation Clearing	C-157 to C-159, C-216	30846+50	30878+50	Type IV	Agricultural Lands
Tree & Vegetation Clearing Tree & Vegetation Clearing	C-159 C-159 to C-160	30879+50 30882+00	30888+00 30895+50	Type IV	Agricultural Lands Agricultural Lands
Tree & Vegetation Clearing	C-159 to C-160	30883+50	30895+30	Type IV Type IV	Agricultural Lands Agricultural Lands
Tree & Vegetation Clearing	C-161, C-217	30907+50	30914+00	Type IV	N/A
Tree & Vegetation Clearing	C-161	30908+00	30910+00	Type IV	N/A
-				-J F ·	
Tree & Vegetation Clearing	C-161 to C-165	30912+50	30914+00	Type IV	N/A
Tree & Vegetation Clearing	C-162	30919+50	30974+50	Type I and IV	Wetlands, Stream
Tree & Vegetation Clearing	C-163	30930+00	30963+50	Type IV	N/A
Tree & Vegetation Clearing	C-166, C-218	30975+00	30989+00	Type I and IV	Wetlands
Tree & Vegetation Clearing	C-166	30987+00	30989+00	Type IV	N/A
Tree & Vegetation Clearing	C-167	30989+50	31002+50	Type I and IV	Wetlands
Tree & Vegetation Clearing	C-167	30990+00	30991+50	Type IV	N/A
Tree & Vegetation Clearing	C-168 to C-170	31015+50	31046+50 31038+00	Type I and IV	Wetlands
Tree & Vegetation Clearing Tree & Vegetation Clearing	C-168 to C-170 C-171	31016+50 31050+00	31038+00	Type I and IV Type IV	Wetlands N/A
Tree & Vegetation Clearing	C-171 C-171, C-219	31063+00	3105+00	Type I and IV	Wetlands
Tree & Vegetation Clearing	· · · · · · · · · · · · · · · · · · ·	31068+50	31082+00	Type I and IV	Wetlands
Tree & Vegetation Clearing	C-172 to C-173	31091+00	31103+00	Type IV	N/A
Tree & Vegetation Clearing	,	31105+00	31126+50	Type IV	N/A
Tree & Vegetation Clearing	C-176	31133+00	31134+00	Type I	Environmentally Sensitive Area
Tree & Vegetation Clearing	C-176	31134+50	31135+00 31138+50	Type IV	Environmentally Sensitive Area
Tree & Vegetation Clearing Tree & Vegetation Clearing	C-176, C-221	31137+50	31138+50 31157+50	Type IV	N/A
Tree & Vegetation Clearing Tree & Vegetation Clearing	C-178 C-178 to C-182	31157+50 31163+00	31157+50 31124+00	Type IV Type I and IV	N/A Wetlands
Tree & Vegetation Clearing	C-178 to C-182 C-179 to C-181	31184+50	3124+00	Type I and I v	Wetlands
Tree & Vegetation Clearing	C-179 to C-181 C-181 to C-182	31213+00	31124+00	Type IV	N/A
Tree & Vegetation Clearing	C-182 to C-184	31225+00	31235+50	Type I and IV	Wetlands
Tree & Vegetation Clearing	C-183 to C-187	31238+00	31393+00	Type I and IV	Wetlands
Tree & Vegetation Clearing	C-184 to C-190	31255+50	31340+50	Type I and IV	Wetlands
Tree & Vegetation Clearing	C-187 to C-190	31309+00	31340+50	Type I and IV	Wetlands
Tree & Vegetation Clearing	C-191	31358+50	31362+00	Type I and IV	Wetlands
Tree & Vegetation Clearing	C-191 to C-192	31360+60	31370+00	Type I and IV	Wetlands
Tree & Vegetation Clearing	C-192 to C-193	31374+00	31384+75	Type I and IV	Wetlands
Note: Table 8.4 identifies the	clearing locations and m	ethods within this Packa	nge. The following sections describe the	procedures that will be	followed for these environmentally senstivie
areas. 1. Wetlands: Section 8.2.1 an 2. Stream Crossing: Section 8 3. Threatened and Endangere	.2.1 and Section 9.1.	itats: Section 9.3.			

3. Threatened and Endangered Species/Sensitive Habitats: Section 9.3. 4. Agricultural Lands: Section 8.2.2.

PACKAGE 3 - TREE AND VEGETATION CLEARING LOCATIONS

Chapter 4 – Construction Methods 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 4.4.1Trenching in Roadways 4.4.2 Trenching in Wetlands 4.4.3 Length of Open Trench 4.4.4 4.4.5 Splicing and Jointing 4.4.6 Dewatering Methods Bedding and Backfilling Methods 4.4.7 Note Applicable for this Segment Dredging Converter Station and Substation Requirements Note Applicable for this Segment Right of Ways and Easements Right of Way Clearing 4.8 (See also Section 8) Building and Structure Removal 4.9 Access Roads 4.10Driveway Access During Construction 4.10.1Access Through Wetlands or Streams 4.10.2 4.10.3 Access Through Agricultural Lands Drain Lines and Under Drains Within Agricultural Lands 4.10.4 Soil and Materials Management Plan 4.11 and Appendix L Culvert Replacement 4.12 Rock Removal 4.13 Inadvertant Damage to Existing Utilities 4.14

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

PACKAGE 3 - CONSTRUCTION METHODS

Table 8.2 – Tree and Vegetation Clearing Methods

Type	Title	
		This method employs a hand-held chain saw. It is selective
	Hand Cutting	but is slower and more expensive than motorized
Type I	(HC)	mechanical devices. Residential areas, buffer zones,
	(IIC)	wetlands, and highway screens are areas where hand
		cutting is typically prescribed.
		This term usually refers to a machine known as the Hydro
	Mechanical	ax or Kershaw mower. This machine can cut trees up to
		10 inches in diameter at the rate of several acres a day,
Type II	Clearing Machine	depending on stem density and terrain. It is essentially
	(HA)	nonselective and a good device for clearing rights-of-way
		that are composed of young undesirable species in a
		relatively uniform stand.
	Mowing	This technique is primarily used in areas of herbaceous
Type III		vegetation. Terrain must be relatively flat with no gullies o
		rocks.
	Mashanisal	This method allows controlled felling and loading of whole
	Mechanical	trees while minimizing damage to adjacent trees. Where
Type IV	whole-tree felling	vegetation is cleared, erosion and sediment control
		measures will be installed and monitored until the topsoil
	equipment	stabilized and can support grassy vegetation.
Table 8.2	summarizes the	e tree and vegetation clearing methods for this Package. A
		ing and removal will follow the specifications in Section 8.

PACKAGE 3 - TREE CLEARING METHODS

1. THE NOISE RECEPTORS THAT MAY OCCUR NEAR THIS PACKAGE AT VARIOUS POINTS INCLUDE RESIDENCES AND BUSINESSES. SECTION 10.2 DESCRIBES THE NOISE CONTROL MEASURES THAT WILL BE EMPLOYED THROUGHOUT THIS PACKAGE.

PACKAGE 3 - EM&CP NOISE SENSITIVE AREAS NOTE

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

PACKAGE 3 - FEMA

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

PACKAGE 3 - CULTURAL RESOURCES

- THE STORMWATER POLLUTION PREVENTION PLAN INCLUDED IN APPENDIX G OF THE EM&CP DESCRIBES THE EROSION AND SEDIMENT CONTROLS THAT WILL BE FOLLOWED
- FOR THIS PACKAGE. 2. THE EROSION AND SEDIMENT CONTROL PLANS CAN BE FOUND ON SHEET C-400 TO SHEET C-447 FOR THIS PACKAGE.

PACKAGE 3 - EM&CP EROSION AND SEDIMENT CONTROL NOTES

Champlain Hudson Power Express





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 EXSEGMENTS 4 & 5 (PACKAGE 3) - CP: FORT EDWAR EM&CP DATA TABLES
0	04/05/2023	FINAL EM&CP SUBMISSION	JJE	JPR	
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	DRAWN BY: JJE DESIGNED BY: JTM APPROVED BY: JPR REV. NO.

CHAMPLAIN HUDSON POWER EXPRESS SEGMENTS 4 & 5 (PACKAGE 3) - CP: FORT EDWARD TO MILTON **EM&CP DATA TABLES**

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

G-011

Notes: Table 4.6 identifies each proposed access road in Segment 4 and 5 – Package 3, 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. Section 4.10 describes the procedures to be followed during the construction of all access roads.

216.-2-1, 203.-4-5,

Type 3, 4, 4A

Yes - Wetlands No

PACKAGE 3 - ACCESS ROAD

Kiewit	
	51

Access road located on northwest side 141.-2-48.1, 141.-2-4.2,

zone crossing Jones Road and ending at 31.11, 140.-2-55, 140.-2 Type 3

C-150 to C-156 30747+00 to 30838+25 of RR tracks starting at HDD#35 work 141.-1-29, 141.-1-

Champlain Hudson

Power Express



No - Access Road is

S5/P3

C-192 to C-193

Environmentall entirely within RR

y sensitive area ROW.

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED
PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITEC 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 DOCUMEN
AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE. THE DATE OF SUCH ALTERATION, AND A
SPECIFIC DESCRIPTION OF THE ALTERATION.

Access road located on west side of RR

tracks starting at HDD#30 work zone

31377+50 to End of

THEY ITECT F AN AL IS CAPE JMENT BY ID A		

0	04/05/2023	EINAL EM&CD CLIDMICCION	HE	IDD	
					_
					CHA SEGMEN
					01 1/ \
					⊢ (:HΔ

SUBMITTAL / REVISION DESCRIPTION

crossing

MP 36.86

Rail MP 36

Raily ard

At Grade

Crossing

CP Rail MP 35.88

> AMPLAIN HUDSON POWER EXPRESS NTS 4 & 5 (PACKAGE 3) - CP: FORT EDWARD TO MILTON **EM&CP DATA TABLES**

DB APP DRAWN BY: JJE DESIGNED BY: JTM APPROVED BY: JPR SCALE REV. NO.

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

G-012 AS NOTED DATE
X SH.NO.

23	C-102 to C-106	2 to 30090+00	RR tracks starting at the beginning of Package 3 and ending at the start of the Village of Fort Edward	1632-20, 1632-16, 1632-19.1, 163.18-3- 35	Type 3	No	No	No	S4/P3	C-153/C-215	30782+00	Temporary Access Road CP Rail MP 42.56. Access Drive to Putnam Lane.	1412-48.1	Construction Entrance, Type 2, 3	Yes - Environmentall y sensitive area	
23	C-104/C-210 C-106/C-210A	30057+00 30085+00	Access Drive CP Rail MP 56.57 Access Drive at 30085+00	1632-20, 1632-16, 163.18-3-35 163.15-1-6	Type 3 Type 2, 4, 4A	No Yes - Wetlands	No No	No No	S4/P3	C-157 to C-159	30846+75 to 30871+00	Access road located on northwest side of RR tracks starting at Adirondack	1412-48.1, 1402- 21.2, 1533-102.1	Type 3	No	No
23	C-111	A-P3-72+50 to A-P3-74+00	Access Road off Mill Site Rd to access HDD Work Area	651-9	Type 3	No	No	No	S4/P3	C-157/C-216	30850+00	Northway ending at Jones Road. Temporary Access Drive CP Rail MP	1412-48.1, 1533-	Construction	No	No
23	C-112 to C-115	A-P3-88+00 to 30212+75	Access road located on northwest side of RR tracks starting at West River Road and ending at HDD#25A work zone.	651-16.1, 651-17, 65 1-16.2, 642-103.1, 64 2-55.1, 781-7		Yes - Wetlands	Yes – access road constructed on several parcels of agricultural land adjacent to RR ROW.	No	S4/P3	C-159 to C-160	30871+00 to 30893+40	Access road located on north side of RR tracks starting at Jones Road and ending at HDD#38 work zone.	102.1 1532-29, 1532-3, 1532-2, 1532-28, 1412-48.1	Entrance, Type 2 Type 3, 5	No	Yes - impacts associated with Splice Location work zone
23	C-115/C-213	30220+75	Temporary Access Road CP Rail MP 53.51.	781-10	Type 3, 4, 4A, 5	Yes - Wetlands	Yes – access road constructed on agricultural land parcel perpendicular	No	S4/P3	C-161	30909+00 to 30914+00	Access road located on north side of RR tracks starting at HDD#39 work zone.	1532-25, 153.5-1-14, 153.5-1-16, 153.5-1-17 153.5-1-18, 1412-48.1	4	No	No
23	C-115 to C-117	30220+50 to 30241+25	ROW and is parallel to the alignment	651-16.1, 781-6, 78 1-13, 781-16.1, 781- 16.2, 781-21.112		Yes - Wetlands and Stream Crossing	to RR ROW. Yes – access road constructed on several parcels of agricultural land	Yes	S4/P3 S5/P3	C-161/C-217 C-162 to C-166	30910+00 30920+75 to 30989+00	Temporary access road CP Rail MP 40.13 Access road located on north side of RR tracks ending at Clinton Street.	1532-25, 1412-48.1 1522-18, 1522-16, 1412-48.1	Construction Entrance, Type 2, 3 Type 4, 4A	No Yes - Wetlands	No No
			before ending at HDD#26 work area	10,2, 10, 1, 2,11,2			adjacent to RR ROW. Yes – minor impacts		S5/P3 S5/P3	C-166/C-218 C-167	30988+00 30990+00 to 31000+00	Access Drive CP Rail MP 30.70 Access road located on north side of	1522-18 1381-67, 1522-16	Construction Entrance, Type 2	No Yes - Wetlands	No
23	C-118 to C-121	30262+25 to 30313+00	Access road located on west/northwest side of RR tracks starting at HDD#26 work zone and ending at Clark Road.	781-93, 651-16.1, 78 1-63.1, 781-34	Type 3, 5	No	from HDD work area (HDD#26 & 27), splice location (74, 75) work areas, and	No	S5/P3	C-168 to C-169	31013+00 to 31025+00	RR tracks starting at Clinton Street. Access road located on north side of RR tracks ending at Denton Road. Access road located on north side of	178-1-35.111, 1522-10	Type 3, 4, 4A 6 Type 3, 4, 4A	Yes - Wetlands	No No
			work zone and ending at Clark Road.				small portion along alignment to avoid culvert (30307+00).		S5/P3	C-169 to C-170	31027+00 to 31042+25	RR tracks starting at Denton Road and ending HDD #41 work zone. Access road located west of the RR	178-1-35.111	Type 3, 4, 4A	Yes - Wetlands	No
23	C-121 to C-122	30313+50 to 30318+00	Access road located on west/northwest side of RR tracks starting south of Clark Road and ending at HDD#28 work area.		Type 3, 4, 4A, 5	Yes - Wetlands	Yes – minor impacts associated with HDD#28 work area.	No	S5/P3	C-171	31051+25 to 31061+00	tracks starting at HDD#41 work zone and ending at paved parking area north of Church Street. Temporary Access Road CP Rail MP	1651-25, 178-1-35.11	Construction	No	No
23	C-122 to C-126	30326+00 to 30379+00	Access road located on northwest side of RR tracks starting at HDD#28 work zone and ending at Mott Road.	65.1-16.1, 91.1-57, 91.1 54	Type 3, 4, 4A, 5		Yes - minor impacts associated with HDD work area (HDD #28, 29) and splice	No	S5/P3 S5/P3	C-171/C-219 C-171 to C-173	31063+00 31063+00 to 31084+25	37.24 Access road located on west side of RR tracks starting at Church Street and ending at a paved roadway north of Washington Street.	1652-79, 178-1-35.11 178-1-35.111, 1652-79	Entrance, Type 2	No Yes - Wetlands	No No
23	C-126 to C-127	30380+00 to 30392+50	Access road located on the northwest side of RR tracks starting at Mott Road	1032-17, 911-4	Type 3, 4, 4A, 5	Yes - Wetlands	Yes - minor impacts associated with Splice Location 78 work area and	No	S5/P3	C-173/C-220 C-173 to C-174	31086+00 31091+00 to 31102+50	Temporary Access Road CP Rail MP 36.81. Access road located on west side of RR tracks starting at HDD#43 work zone and ending at Grand Avenue.	1652-36.1, 178-1-	1 Type 2 Type 3	No No	No No
			and ending at HDD#30 work zone. Access road located on northwest side	1032-17, 90.20-1-9,			HDD#30 work area.		S5/P3	C-174/C-220A	31102+00 & 31105+00	Access roads on north and south sides of Grand Avenue.	35.111 1652-36.1, 1652-45.2	2 Type 3	No	No
23	C-128 to C-131	30414+50 to 30452+00	of the RR tracks ending at Schuylerville Road. Temporary Access Road CP Rail MP	90.20-1-10, 911-28, 103.8-1-7.1	Type 3 Construction	No	No	No								
23	C-129/C-214 C-131 to C-132	30429+50 30452+50 to 30473+00	49.52 Access road located on northwest side	1032-17, 103.8-1-7.1	Entrance, Type 3 Type 3, 4, 4A, 5	No Yes - Wetlands	No Yes - Parcel 1032- 22.2	No No	S5/P3	C-174 to C-178	31106+00 to 31158+50	Access road located on west side of RR tracks starting at Grand Avenue and ending at paved driveway north of Geyser Road.	1652-45.2, 1652- 45.1, 1781-50.111, 178-1-35.111	Type 3	Yes - Environmentall y sensitive area	
23	C-132 to C-137	30474+00 to 30544+00	Access road located on northwest side of the RR tracks starting at Gurn Spring Road and ending at HDD#31 and Splice	1032-17, 1032-10,	Type 3, 4, 4A, 5	Yes - Wetlands	Yes - Parcel 1032-10, 1033-64	' No	S5/P3	C-176/C-221	31138+00	Access drive perpendicular to the alignment ending at Grande Blvd.	Grande Blvd ROW	Construction Entrance	No	No
23	C-138 to C-140	30558+00 to 30595+50	Location 84 work area. Access road located on northwest side of RR tracks starting at HDD#31 work	1412-48.1, 1161- 70.1, 1161-25	Type 4, 4A	Yes - Wetlands	No	No	S5/P3	C-178 to C-182	31164+50 to 31221+00	Access road located on west side of RR tracks starting at HDD#45 work zone.	1783-18, 1911-1, 1781-35.111	Type 3, 4, 4A	Yes - Wetlands	No
23	C-140 to C-142	30596+00 to 30622+00	area and ending at Pettis Road. Access road located on northwest side of RR tracks starting at Pettis Road and ending at Ballard Road.		Type 3	No	No	No	S5/P3	C-182/C-222	31223+00	Access drive from HDD#47 work zone to paved roadway north of Ballston Avenue.	1911-1	Construction Entrance, Type 2	Yes - Stream Crossing	No
23	C-142 to C-143	30622+50 to 30632+00	Access road located on east side of tracks starting at Ballard Road and ending at HDD#32 work zone.	1281-8.1, 1412-48.1	Type 3	Yes - Environmentall y sensitive area	No	No				Access road located on northwest side	1781-35.111, 1911-59, 1911-51, 2031-37.1, 2031-34.1, 2031-			
23	C-143 to C-144	30640+00 to 30650+50	Access road located on east side of RR tracks starting at HDD#32A work zone and splice location 87, ending at Scout Road.	1412-48.1, 1281-18, 1281-19.2, 1281-19.1	Type 3	Yes - Environmentall y sensitive area	No	No	S5/P3	C-182 to C-188	31225+50 to 31313+00	of RR tracks starting at Ballston Avenue and ending at Northline Road.	3, 1911-35, 1911-34, 1902-8, 1902-9, 190. 2-15, 1902-16, 1902- 17, 1902-18, 1902- 19, 1902-20, 1902-2	-	Yes - Wetlands	No
23	C-144/C-214A	30649+00	Access drive located north of Scout Road	1281-19.1	Construction Entrance, Type 2, 3	Yes - Environmentall y sensitive area	No	No	S5/P3	C-184/C-223	31255+50	Temporary Access Road CP Rail MP 33.62.	1781-35.111, 1902-8 1902-9	3, Construction Entrance, Type 2	Yes - Wetlands	No
23	C-144	30651+50 to 30654+75	Access road located on east side of RR tracks starting at Scout Road and ending at HDD #33 work area.	1281-20, 1281-21	Type 3	No	No	No	S5/P3	C-187/C-224	31294+00	Temporary Access Road CP Rail MP 32.93. Access road located on west side of RR	1781-35.111, 2031-3 2034-5, 1781-35.111	Entrance, Type 2	No Yes - Wetland	No
23	C-146 to C-148	30676+75 to 30716+50	Access road located on northwest side of RR tracks starting at HDD#33 work zone ending at Edie Road.	1412-48.1, 1281-7.111, 1281-83.11, 1281-84	Type 3, 4, 4A, 5		Yes - minor impacts associated with HDD#33 work zone	No	S5/P3	C-188 to C-190 C-189/C-225	31313+00 to 31338+00 31321+50	tracks starting at Northline Road and ending at HDD#49 work zone. Temporary Access Road CP Rail MP	2031-29, 203.11-1-26	TTranc 2 / / / /	and Stream Crossing No	No No
23	C-148	30717+00 to 30718+00	Access road located on northwest side of RR tracks starting at Edie Road and ending at HDD#35 work zone.		Type 3	No	No	No	S5/P3			_	2034-5, 2034-7, 203. 4-8.1		Yes - Stream Crossing	No
				141 2 49 1 141 2 4 2		+			7 1			ending at HDD#50 work zone.	T 0.1		Crossing	İ

Segment/ Package	Sheet Number	see Drawings for	Staging Area Description
		Details)	_
S4/P3	C-104	30058+85	HDD 21B Entry Pi
S4/P3	C-105	30068+30	HDD 21B Exit Pit
S4/P3	C-107	A-P3-20+50	HDD-22 Entry Pit
S4/P3	C-108	A-P3-33+20	HDD-22 Exit Pit
S4/P3	C-109	A-P3-74+15	HDD-24 Entry Pit
S4/P3	C-111	A-P3-92+70	HDD-24 Exit Pit
S4/P3	C-112	A-P3-83+85	HDD-24A Entry Pi
S4/P3	C-112	A-P3-92+70	HDD-24A Entry Pi
S4/P3	C-113	30187+20	HDD-25 Entry Pit
S4/P3	C-114	30204+45	HDD-25 Exit Pit
S4/P3	C-115	30213+80	HDD-25A Entry Pi
S4/P3	C-115	30221+50	HDD-25A Exit Pit
S4/P3	C-117	30240+55	HDD-26 Entry Pit
S4/P3	C-118	30261+00	HDD-26 Exit Pit
S4/P3	C-119	30280+75	HDD-27 Entry Pit
S4/P3	C-120	30291+55	HDD-27 Exit Pit
S4/P3	C-122	30318+70	HDD-28 Entry Pit
S4/P3	C-122	30325+15	HDD-28 Exit Pit
S4/P3	C-123	30344+70	HDD-29 Entry Pit
S4/P3	C-124	30355+40	HDD-29 Exit Pit
S4/F3	C-124 C-127	30392+40	HDD-30 Entry Pit
S4/P3 S4/P3	C-127 C-128	30392+40	HDD-30 Exit Pit
S4/P3	C-128 C-137	30545+45	HDD-31 Entry Pit
	C-137 C-138		HDD-31 Exit Pit
S4/P3		30556+15	
S4/P3	C-142	30619+20	HDD-32 Entry Pit
S4/P3	C-142	30627+90	HDD-32 Exit Pit
S4/P3	C-143	30632+85	HDD-32A Entry Pi
S4/P3	C-143	30639+15	HDD-32A Exit Pit
S4/P3	C-144	30656+65	HDD-33 Entry Pit
S4/P3	C-146	30675+20	HDD-33 Exit Pit
S4/P3	C-148	30719+50	HDD-35 Entry Pit
S4/P3	C-150	30745+40	HDD-35 Exit Pit
S4/P3	C-154	30796+30	HDD-36 Entry Pit
S4/P3	C-154	30802+45	HDD-36 Exit Pit
S4/P3	C-156	30839+30	HDD-37 Entry Pit
S4/P3	C-157	30847+00	HDD-37 Exit Pit
S4/P3	C-160	30895+55	HDD-38 Entry Pit
S4/P3	C-161	30910+65	HDD-38 Exit Pit
S4/P3	C-161	30913+95	HDD-39 Entry Pit
S4/P3	C-162	30290+00	HDD-39 Exit Pit
S5/P3	C-167	31001+55	HDD-40 Entry Pit
S5/P3	C-168	31014+35	HDD-40 Exit Pit
S5/P3	C-170	31043+15	HDD-41 Entry Pit
S5/P3	C-171	31050+35	HDD-41 Exit Pit
S5/P3	C-171	31058+50	HDD-42 Entry Pit
S5/P3	C-171	31064+55	HDD-42 Exit Pit
S5/P3	C-173	31081+00	HDD-43 Entry Pit
S5/P3	C-173	31091+55	HDD-43 Exit Pit
S5/P3	C-174	31100+35	HDD-44 Entry Pit
S5/P3	C-174	31100+35	HDD-44 Exit Pit
S5/P3	C-178	31157+00	HDD-45 Entry Pit
S5/P3	C-178	31163+10	HDD-45 Exit Pit
S5/P3	C-178	31176+55	HDD-46 Entry Pit
S5/P3	C-179	31208+00	HDD-46 Exit Pit
S5/F3	C-181 C-182	31208+00	HDD-47 Entry Pit
S5/P3	C-182 C-182	31227+15	HDD-47 Exit Pit
S5/P3	C-190	31339+70	HDD-49 Entry Pit
S5/P3	C-191	31359+00	HDD-49 Exit Pit
S5/P3	C-192	31369+35	HDD-50 Entry Pit
S5/P3	C-192	31376+40	HDD-51 Exit Pit
See Laydown Yard EM&CP	See Laydown Yard EM&CP	See Laydown Yard EM&CP	Fort Edward Laydown Yard

Note: Table 5.2 summarizes the locations of where construction materials

PACKAGE 3 - CONSTRUCTION MATERIAL AND

EQUIPMENT STAGING LOCATIONS

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

PACKAGE 3 - AQUATIC INVASIVE SPECIES/LOCATION

common reed (Phragmites

australis)

narrow-leaf cattail (Typha angustifolia)

Eurasian buckthorn (Rhamnus

cathartica)

Tatarian honey suckle (Lonicera

tatarica)

(Lonicera morrowii)

spread of invasive species.

Note: Table 9.5 identifies the locations of invasive plants that were identified within this Package. Section 9.4 describes the procedures to be followed to reduce the

Location

Wetland GP3-C (30083+50, C-403)

Wetland P3-C2 (30159+00, C-406)

Wetland G-P3-G (30187+00, C-407)

Wetland G-P3-H (30189+00, C-407) Wetland G-P3-P (30216+65, C-407) Wetland P3-CC (31013+00, C-434)

Wetland GP3-R (31271+75, C-443)

Wetland GP3-V (31318+00, C-445)

Wetland P3-O (Access Road near 30057+00) Wetland GP3-C (30083+50, C-403) Wetland G-P3-H (30189+00, C-407) Wetland GR-YY (30246+00, C-409) Wetland C-R-AY (30325+25, C-411) Wetland P3-I (30666+23, C-423) Wetland P3-ZZ (30888+45, C-430)

Wetland P3-YY (30893+50, C-431)

Wetland C2-R-C/P3-BB (31012+25, C-434) Wetland C2-R-D (31025+75, C-434) Wetland C2-R-E (31028+25, C-435) Wetland FA -CS (31226+00, C-441) Wetland FA-CX (31229+00, C-442) Wetland GP3-B (31228+25, C-442) Wetland GP3-R (31271+00, C-443) Wetland GP3-C (30083+50, C-403) Wetland G-P3-F (30183+00, C-407) Wetland C-R-AU (30487+50, C-417)

Wetland FA-CH (31007+00, C-434) Wetland P3-DD (31020+25, C-434/C-435) Wetland P3-AA (31017+00 C-434/C-435) Wetland GP3-C (30083+50, C-403) Wetland G-P3-F (30183+25, C-407) Wetland C-R-AU (30487+50, C-417)

Wetland FA-CH (31007+00, C-434)

Wetland P3-DD (31020+25, C-434/C-435)

Wetland C2-R-E (31028+25, C-435) Wetland FA -CM (31179+25, C-440) Wetland GP3-W (31309+00, C-444) Wetland P3-M (31317+00, C-444) Wetland G-R-TT (30062+75, C-403) Wetland G-R-UU (30072+25, C-403) Wetland P3-E2

Wetland G-R-VV (30188+50, C-407)

Wetland G-R-ZZ (30289+00, C-410)

Wetland C2-R-E (31028+25 to 31030+75, C-435)

Wetland C2-R-F (31046+50 to 31048+75, C-435)

Wetland C2-R-G (31063+50 to 31065+00, C-436)

Wetland GP3-X Wetland C-R-AW

Wetland C2-R-F

Table 9.2 – Summary of Wetland Impacts of Segments 4 & 5 - Package 3

Wetland Community Type⁽¹⁾ Impacts (square

Permanent ROW

Drawing Sheet

Number and

Approximate Station

Juris diction

Wetland ID

Buffer Temporary

Construction

Impacts (square

feet)

Wetland ID	Jurisdiction	Drawing Sheet Number and Approximate Station	Wetland Community Type (1)	Permanent ROW Impacts (square feet)	Temporary Construction Impacts (square feet)	State Wetlan Buffer Tempor Construction Impacts (squa feet)
C2-R-H	USACE	31067+60 to 31071+50 C-172, C-436	PSS	11	6004	N/A
GP3-Z	USACE	31164+00 to 31164+50 C-178, C-439	PFO	Calculation Pending	1450	N/A
FA-CM/GP3-X	USACE/NYSDEC	31183+6000 to 31207+25 C-179 to C-181, C-440 to C-441	PEM	Calculation Pending	85067	Calculation Pend
FA-CQ	USACE/NYSDEC	31210+75 to 31211+75 C-181, C-441	PEM	Calculation Pending	988	N/A
FA-CS	USACE	31225+50 to 31227+00 C-182, C-222, C-441	PEM	228	3834	N/A
FA-CX	USACE	31228+75 to 31239+35 C-182 to C-183, C-441 to C-442	PEM	5458	15442	N/A
GP3-A	USACE	31255+75, C-223, C-442	PFO	Calculation Pending	36	N/A
GP3-B	USACE	312543+75 to 31254+50 C-223	PFO	Calculation Pending	77	N/A
GP3-U	USACE	31259+25 to 31260+25 C-184 to C-185, C-442	PFO	8	2175	N/A
FA-DB	USACE	31267+00 to 31269+00 C-185,C-443	PEM	5431	6088	N/A
GP3-R	USACE	31272+00 to 31275+25 C-185 to C-186, C-443	PFO	Calculation Pending	Calculation Pending	N/A
GP3-Q	USACE	31289+50 to 31292+25 C-186 to C-187, C-443 to C-444	PSS	Calculation Pending	Calculation Pending	N/A
GP3-W	USACE	31311+25 to 31312+75 C-188, C-444	PFO	Calculation Pending	Calculation Pending	N/A
Р3-М	USACE	31317+25 to 31317+75 C-188, C-444	PEM	Calculation Pending	Calculation Pending	N/A
GP3-V	USACE	31320+25 to 31320+50 C-188, C-444 to C-445	PFO	Calculation Pending	Calculation Pending	N/A
P3-B5	USACE	31336+00 to 31337+50 C-190, C-445	PFO	Calculation Pending	Calculation Pending	N/A
В	USACE	31338+00 to 31339+00 C-190, C-445	PFO	Calculation Pending	Calculation Pending	N/A
С	USACE	31339+50 to 31340+00	PFO	Calculation Pending	Calculation Pending	N/A
D	USACE	31361+75 to 31363+75 C-191, C-446	PEM	Calculation Pending	Calculation Pending	N/A
FA-DJ	USACE	31375+75 to 31382+40 C-192 to C-193, C-446 to C-447	PFO	Calculation Pending	Calculation Pending	N/A
	1	1 2 110 10 2 117	PEM	40063 sf	207721 sf	Calculation Pend
_		• •		0.92 ac	4.77 ac	
Tota	al by Wetland Com	munity Type	PSS	1744 sf 0.04 ac	20453 sf 0.47 ac	Calculation Pend
			PFO	9522 sf 0.22 ac	127564 sf 2.93 ac	Calculation Pend
		Total		51329 sf 1.18 ac	355738 sf 8.17 ac	Calculation Pend
Note: (1) PEM	– Palustrine emerger	nt, PSS – Palustrine scrub	o-shrub, PFO – Palustrine fores	ted. Table 9.2 describ	es the location and	impact for each

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

PACKAGE 3 - IMPACTS TO WETLANDS AND WATERBODIES

Note: Survey data has been collected but not incorporated into the Plan and Profiles and will be resubmitted at a later date.

Table 9.3A- Summary of Significant Natural Communities of Segments 4 & 5 -Package 3 Anticipated **Best Management Practices** Impacts No suitable habitat present within the Limit of Work (LOW). Vernal Pond suitable habitat present within the Limit of Work (LOW). Hemlocksuitable habitat present within the Limit of Work (LOW). Hardwood Pitch Pine-Scrub suitable habitat present within the Limit of Work (LOW). Oak Barrens 1. Any known RTE species occupied habitats and locations where RTE plants have been observed to be present will be clearly marked on the Plan and Profile drawings (Appendix C). All specific locations of significant natural communities gments 4 and 5 be shown on the Plan and Profile Drawings (Appendix C). 2. The Plan and Profile drawings will be provided to the NYSDEC, NYNHP, and DPS Staff for review of mapped Northern Sandplain supied habitat areas and locations where significant natural communities have been observed to be present; Grassland Locations of known significant natural communities occurrences or habitat will be treated as confidential. the Appalachian Oak-Segments 4 and 5 Certificate Holders will label any documents or plans containing information on RTE species as "confidential" and will Pine Forest rovide appropriate training to employees and Contractors as to the confidential nature of this information; . As part of environmental training, the Certificate Holders and associated Contractors will provide training to contractors and employees regarding known and potential significant natural communities that may be encountered, and the identification and protection measures that are included in this EM&CP; and 5. The Environmental Inspector will be responsible for ensuring that prescribed protection measures are appropriately utilized during construction. Note: Table 9.3A summarizes the locations, best management practices, and anticipated impacts for the significant natural communities that may be encountered on or within the

PACKAGE 3 - SIGNIFICANT NATURAL COMMUNITIES

	Table 9.3B – Summary of Federal and State-Listed Species of Segments 4 & 5 -Package 3							
y	Status	ESA Type	Location	Best Management Practices	Anticipated Impacts			
	Federal/ State Endangered	ESA 4	Assumed to be roosting habitat located throughout the Project Corridor	(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 ³ . (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 5	Segment 4 and 5	(a) Prior to construction, a qualified biologist will conduct surveys for ESA 5 and ESA 3 within identified habitat areas in accordance with USFWS and NYSDEC guidance document ESA 5 Survey Protocols Within the State of New York (May 2008); (b) Prior to construction, the boundaries of identified occupied habitat or wild lupine patches within or immediately adjacent to construction areas and access roates will be clearly flagged in the field, and the Certificate Holder will conduct a walk through to discuss and review avoidance and minimization measures. The flagging shall be maintained until construction has been completed and all disturbed areas have been restored to their final grade; (c) The Certificate Holders will avoid construction and vegetation management within or immediately adjacent to occupied ESA 5 and/or ESA 3 habitats during the adult flight periods (approximately May-August) to avoid and/or minimize potential mortality of adults that may be nectaring or traveling between habitat areas. Because adult flight periods may vary from year to year, the Certificate Holders will contact NYSDEC prior to starting construction within any identified habitat areas to confirm that adults have not emerged. (d) Contractors and construction personnel will receive training on the identification and known locations of the host plant, wild blue lupine (Lupinus perennis) and for the ESA 5 and ESA 3. Construction personnel would be trained and instructed to avoid trampling or destruction of wild blue lupine plants.; (e) If any previously unknown or unflagged areas containing wild blue lupine are encountered during preconstruction environmental inspection, construction, or restoration, the Environmental Inspector will delineate the boundary of the habitat with flagging in the field, and will collect Global Positioning System (GPS) data mapping its location. The Certificate Holders will notify the DPS, the NYSDEC and the USFWS within 48 hours if any previously unidentified habitats containing wild blue lupine are discove	None			
	State Endangered	ESA 11	Segment 4	BMPs measured approved for the ESA 5 and ESA 3 will also serve to avoid and minimize impacts to the ESA 11.	None			

Note: Table 9.3B 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. (3) 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

PACKAGE 3 - FEDERAL AND STATE-LISTED SPECIES

Crossing ID

Table 13.4 Parallal Dailroad Cone

Table 13.4 - Par	allel Railroad Cons	truction
Railroad Owner	Railroad Milepost	Approximate Station Location (See Drawings for Details)
CP Rail	57.34 to 31.09	Entire Segment 4

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 3 - PARALLEL RAILROAD CONSTRUCTION

Coordinating Parties	Description	Current Status
Certificate Holders, DPS Staff, NYSDOT	All plans and work to be performed in State-owned ROW under NYSDOT's supervision and management.	Ongoing throughout
Certificate Holders, DPS Staff, NYSDOT staff	Certificate Holders shall provide DPS Staff and NYSDOT staff with a preliminary design marked to avoid conflict with potential transportation projects that NYSDOT Staff may seek to undertake in the future and shall offer to consult with NYSDOT Staff concerning any comments it may offer and shall use reasonable efforts to accommodate any NYSDOT concerns (CC68).	Prior to filing any Segment EM&CF 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 preparatio 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.

Note: Table 12.2 describes the ongoing coordination with NYSDOT. Additional documentation of this consultation is included in Appendix A.

PACKAGE 3 - NYSDOT COORDINATION SUMMARY

Table 13.2 - Segments 4 & 5 - Package 3 Railroad Crossings

Sheet Number

Crossing Method

	CP Rail MP 55.64-55.40	HDD#22	C-108	A-P3-23+00 to A-P3- 31+00
	CP Rail MP 54.40-54.34	HDD#24A	C-112	A-P38-84+00 to A-P3- 89+50
	CP Rail MP 45.95 - 45.85	HDD#32	C-142	30619+00 to 30625+00
	CP Rail MP 45	HDD#33	C-145	30688+00 to 30672+00
tatus	CP Rail MP 38.58 - 38.42 (Saratoga Corinth & Hudson Railway Adirondack Subdivision)	HDD#40	C-167 to C-168	31002+50 to 31006+00
	CP Rail MP 36.86	HDD#43	C-173	31084+00 to 31084+25
g any I&CP	CP Rail MP 36	Trench	C-176	31129+00
such	Private Railyard At Grade Crossing CP Rail MP 35.88 (CP Rail Cady Hill Industrial Track)	Trench	C-176	31137+00
nration	CP Rail MP 32.05 - 31.81	HDD#49	C-190 to C-191	31348+50 to 31352+00
cP ork	CP Rail MP 31.52 - 31.42	HDD#50	C-192	31370+00 to 31375+00
OI K	Note: Table 13.2 describes the the railroad are described in Tathat will be followed for all railroad are described in Tathat will be followed for all railroad are described in Tathat will be followed for all railroad are described in Tathat will be followed for all railroad are described in Tathat will be followed for all railroad are described in Tathat will be followed for all railroad are described in Tathat will be followed for all railroad are described in Tathat will be followed for all railroad are described in Tathat will be followed for all railroad are described in Tathat will be followed for all railroad are described in Tathat will be followed for all railroad are described in Tathat will be followed for all railroad are described in Tathat will be followed for all railroad are described in Tathat will be followed for all railroad are described in Tathat will be followed for all railroad are described in Tathat will be followed for all railroad are described in Tathat will be followed for all railroad are described in Tathat will be followed for all railroad are described in Tathat will be followed for all railroad are described in the tathat will be followed for all railroad are described in the tathat will be followed for all railroad are described in the tathat will be followed for all railroad are described in the tathat will be followed for all railroad are described in the tathat will be followed for all railroad are described in the tathat will be followed for all railroad are described in the tathat will be followed for all railroad are described in the tathat will be followed for all railroad are described in the tathat will be followed for all railroad are described in the tathat will be followed for all railroad are described in the tathat will be followed for all railroad are described in the tathat will be followed for all railroad are described in the tathat will be followed for all railroad are described in the tathat will be followed for all railroad are described in the tathat will	able 4.5 and Section 4		
	PACKAGE 3	5 - CP RAI	ILROAD CRO	OSSING

PACKAGE 3 - CP KAILKUAD CRUSSING







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

0	04/05/2023	FINAL EM&CP SUBMISSION	JJE	JPR	
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			I		

SUBMITTAL / REVISION DESCRIPTION

(CC47)

HAMPLAIN HUDSON POWER EXPRESS MENTS 4 & 5 (PACKAGE 3) - CP: FORT EDWARD TO MILTON **EM&CP DATA TABLES**

DB APP DRAWN BY: JJE DESIGNED BY: JTM APPROVED BY: JPR REV. NO.

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

Location (Approximate

see Drawings for

Details)

A-P3-23+00 to A-P3-

G-013

AS NOTED DATE

Method

HDD#22

HDD#24

HDD#24

HDD#24A

Trench/Splice

Restoration Methods

Section of EMCP

14.2.3

14.2.4

14.3

14.4

14.5.2

Land Use Description

Construction Materials and Equipment Staging Locations

and Temporary Access

Recreational Areas

Drainage Features

Streams and Waterbodies

Areas within Agricultural

Access Roads and Laydown

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

PACKAGE 3 -

RESTORATION METHODS

FINAL EM&CP SUBMISSION

DATE SUBMITTAL / REVISION DESCRIPTION

Table above summarizes the appropriate subsection with Section 14 that includes the restoration procedure for each type of land use.

Landscaping

Pavement Railway Ballast Location (Approximate

See Drawings for

A-P3-31+00 to A-P3-

A-P3-35+00 to A-P3-

A-P3-42+50 to A-P3-

A-P3-47+00 to A-P3-

A-P3-87+50 to A-

48+00

P3=88+50

Table 4.1 - Segments 4 & 5 -Package 3 HDD Locations						
Segment/ Package	HDD Designation	HDD Length, feet	Reason for HDD	Sheet Number	Location (Approximate - see Drawings for Details)	
S4/P3	HDD 21B	903/947	Drainage/Culvert	C-104 to C-105	30058+85 to 30068+30	
S4/P3	HDD-22	1251/1277	RR Crossing/Road	C-107 to C-108	A-P3-20+50 to A-P3-33+20	
S4/P3	HDD-24	3406/3549	River Crossing	C-109 to C-111	A-P3-74+15 to A-P3-92+70	
S4/P3	HDD-24A	884	RR Crossing/Road Crossing (at Grade)	C-112	A-P3-83+85 to A-P3-92+70	
S4/P3	HDD-25	1754/1726	Wetland	C-113 to C-114	30187+20 to 30204+45	
S4/P3	HDD-25A	765	Wetlands/Drainage	C-115	30213+80 to 30221+50	
S4/P3	HDD-26	2036/2042	Culvert and Wetlands	C-117 to C-118	30240+55 to 30261+00	
S4/P3	HDD-27	1087	Culvert and Wetlands	C-119 to C-120	30280+75 to 30291+55	
S4/P3	HDD-28	636/645	Culvert and Wetlands	C-122	30318+70 to 30325+15	
S4/P3	HDD-29	1047/1049	Wetlands	C-123 to C-124	30344+70 to 30355+40	
S4/P3	HDD-30	1918	Culvert and Water	C-127 to C-128	30392+40 to 30411+60	
S4/P3	HDD-31	1061/1070	Culvert and Water	C-137 to C-138	30545+45 to 30556+15	
S4/P3	HDD-32	757/872	RR Crossing and Road Crossing (atgrade)	C-142	30619+20 to 30627+90	
S4/P3	HDD-32A	633	Environmentally Sensitive Area	C-143	30632+85 to 30639+15	
S4/P3	HDD-33	1859	Environmentally Sensitive Area, Culvert, and RR Crossing	C-144 to C-146	30656+65 to 30675+20	
S4/P3	HDD-35	2550/2552	Wetlands and Environmentally Sensitive Area	C-148 to C-150	30719+50 to 30745+40	
S4/P3	HDD-36	630/645	Road/Bridge over RR	C-154	30796+30 to 30802+45	
S4/P3	HDD-37	765/773	Highway/Bridges over RR	C-156 to C-157	30839+30 to 30847+00	
S4/P3	HDD-38	1473/1518	Culvert, Water, Utilities	C-160 to C-161	30895+55 to 30910+65	
S4/P3	HDD-39	606/645	Road Bridge over RR	C-161 to C-162	30913+95 to 30290+00	
S4/P3	HDD-40	1349/1291	RR Crossing	C-167 to C-168	31001+55 to 31014+35	
S5/P3	HDD-41	712	Culvert and Water	C-170 to C-171	31043+15 to 31050+35	
S5/P3	HDD-42	565/690	Road Bridge over RR	C-171	31058+50 to 31064+55	
S5/P3	HDD-43	1050	Road/RR	C-173	31081+00 to 31091+55	
S5/P3	HDD-44	538/575	Road Bridge over RR	C-174	31100+35 to 31106+50	
S5/P3	HDD-45	630	Road Bridge over RR	C-178	31157+00 to 31163+10	
S5/P3	HDD-46	3150	Wetland and RR Culvert	C-179 to C-181	31176+55 to 31208+00	
S5/P3	HDD-47	562/584	Road Bridge over RR	C-182	31221+30 to 31227+15	
S5/P3	HDD-49	1932	RR Crossing and Road Crossing (atgrade)	C-190 to C-191	31339+70 to 31359+00	
S5/P3	HDD-50	703/715	RR Crossing	C-192	31369+35 to 31376+40	
Note: Table	4.1 describes the locati	ons of HDD acti	vity within this Package. HDD will be p	erformed in accord	lance with the Horizontal	

Note: Table 4.1 describes the locations of HDD activity within this Package. HDD will be performed in accordance with the Horizontal Direction Drilling Site Investigation and Planning Report and Inadvertent Release and Contingency Plan in Appendix J, the specifications described in Section 4.3.1, and the BMP document.

PACKAGE 3 - HDD LOCATIONS

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.
Type E	Vegetation Chipping	Vegetation including tree limbs may be chipped to reduce debris volume. See Type D for the disposal of chips.
Type F	Vegetation Hauling	Vegetation and stumps may be hauled to a NYSDEC approved location (Appendix L) or other suitable off-site location with the approval of the landowner and all applicable permitting agencies.
Type G	Vegetation Burial	Stumps may be buried on the ROW with landowner agreement. The burial areas will be sufficiently compacted and monitored after construction to assure that settling does not occur. Where significant settling after construction has been identified by the Construction Inspector et. al., finished grade will be reestablished using locally obtained run-of-bank material and/or topsoil and re-seeded as appropriate as specified in Sections 14.2. Areas where significant amounts of stump burial occur will be noted on As-Built drawings and monitored for settling during ROW condition surveys and maintenance

Table 8.3 – Tree and Vegetation Disposal Methods

Table 8.3 describes the tree and vegetation disposal methods that may be used for this Package. A list of approved disposal locations will be submitted to DPS Staff via a EM&CP Change Notice (in accordance with Section 3.2.6 of this EM&CP) prior to construction.

PACKAGE 3 - TREE AND VEGETATION DISPOSAL METHODS

Table 13.1 – Segments 4 & 5 - Package 3 Co-located Infrastructure Consultation Summary

				mastractare consultation st	
Owner	Utility	Initial Contact Date	CI- Owner Response	Outreach Mailing #2	Outreach Mailing #3
АТ&Т	Fiber/ Telephone	9/9/2021	Crossing conditions received.	1/27/22 email sent with .kmz digital map of route and request for records, data & information of CI along Project route.	10/4/2022. Consultation ongoing. Significant reroute across Rogers Island. CI owner package is being revised by EOR currently (anticipate by 04/21/23) and will be provided to CI owner for review upon receipt by the OE. Anticipate crossing agreement during third quarter of 2023.
Level 3 Communications (now Lumen Technologies)	Fiber	9/10/2021	Support services agreement in place. Crossing conditions received. Reimbursement fund established.	1/27/22 email sent with .kmz digital map of route and request for records, data & information of CI along Project route.	10/4/2022. Consultation ongoing. Package 3 underwent changes since previous revision that require CI owner review and chance to provide comment. Anticipate receipt of comments from CI owner by 05/05/23.
National Grid/ East/ Electric	Electric, Gas, Transmission, Telephone	9/10/2021	Crossing conditions received	1/27/22 email sent with .kmz digital map of route and request for records, data & information of CI along Project route. Received locations of overhead electric lines.	10/4/2022. Ongoing consultation including electrical effects study review, engineering review. Currently anticipate agreement in second quarter 2023.
Time Warner Cable (Charter Communications/Spectrum)	Fiber/CATV	9/23/2021	Comments on location of fiber utilities	1/27/22 email sent with .kmz digital map of route and request for records, data & information of CI along Project route.	10/4/2022. Agreement expected pending receipt of updated plan/profile that reflect CI owner comments. Anticipate receipt of updated plan/profile by 05/05/23.
NYSDOT Albany Region 1	Traffic Signals Highway	Ongoing for a number of years. See Table 12.3.	N/A	N/A	N/A
Canadian Pacific Railroad	Railroad, Culverts, Communication Towers	Ongoing. See Table 13.3.	N/A	N/A	N/A
Dominion Telecom (Elantic Telecomm)	Fiber/ Telephone	9/13/2022	Coordination Pending	9/23/2022	Consultation ongoing. EOR to revise current (03/22/23) CI Owner package (anticipate by 05/05/23). OE to provide to CI owner upon receipt. Anticipate crossing agreement during third quarter of 2023.
Saratoga County & City of Saratoga Springs	Storm Sewer, Water line, Storm drainage/ culverts, Sanitary Sewer	9/21/2022	Coordination Pending	10/4/2022	CI owner has been unresponsive to CI team request for comments but is in consultation with Project Owner and Road Use Agreement team. EOR to combine two City of Saratoga Springs CI Owner packages into one, to be Anticipate crossing agreement during third quarter of 2023.
Village Fort Edward	Water line	10/4/2022	Coordination Pending	10/10/2022	Consultation ongoing. Significant reroute across Rogers Island. Meeting to discuss CI owner comments currently being planned. EOR to revise CI owner package following meeting.
Town of Moreau	Storm drainage/ culvert	8/24/2022	Coordination Pending	9/22/2022	Consultation ongoing. CI owner has been unresponsive to CI team request for comments but is in consultation with Project Owner and Road Use Agreement team. Anticipate crossing agreement during third quarter of 2023.
Washington County	Sanitary Sewer	10/4/2022	Coordination Pending	N/A	Consultation ongoing. CI owner reviewing revised CI owner package that was developed by Kiewit in response to concerns expressed by CI owner during February 2023. Anticipate crossing agreement during third quarter of 2023.

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

PACKAGE 3 - CO-LOCATED INFRASTRUCTURE CONSULTATION SUMMARY







IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITEC 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 DOCUMEN 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	k
	CHAMPLAIN HUDOUN PUWER EXPRESS	
	SEGMENTS 4 & 5 (PACKAGE 3) - CP: FORT EDWARD TO MILTON	
	EM&CP DATA TABLES	

JJE JPR

|Saratoga Springs |NYSDOT

| Saratoga Springs | Private

Saratoga Springs NYSDOT

| Saratoga Springs | Saratoga Springs | Grand Avenue

| Saratoga Springs | Saratoga County | Geyser Road

| Saratoga Springs | Saratoga County | Northline Road

Ballston Spa | Saratoga County | Malta Avenue

ט דודט	Wiorcau					13 66 30
S4/P3	Saratoga County/Moreau	Private	Private Road Crossing MP 53.77	Trench	C-114	30207+00 to 30207+5
S4/P3	Saratoga County/Moreau	Private	Private Road Crossing MP 53.51	Trench	C-115	30220+75
S4/P3	Saratoga County/Moreau	Private	Private Road Crossing MP 53.41	Trench	C-116	30226+20
S4/P3	Saratoga County/Moreau	Private	Private Road Crossing	Trench	C-116	30232+50 to 302334+00
S4/P3	Saratoga County/Moreau	Private	Private Road Crossing MP 53.11	Trench	C-117	30242+15
S4/P3	Saratoga County/Moreau	Private	Private Road Crossing MP 52.80	Trench	C-118	30259+00
S4/P3	Saratoga County/Moreau	Private	Private Road Crossing MP 52.51	Trench	C-119	30274+10
S4/P3	Saratoga County/Moreau	Private	Private Road Crossing MP 51.99	Trench	C-121	30301+05
S4/P3	Moreau	Moreau	Clark Road	Trench	C-121	30313+00
S4/P3	Northumberland	Northumberland	Mott Road	Trench	C-126	30379+70
S4/P3	Northumberland	Private	Private Road Crossing MP 49.74	Trench	C-128	30418+80
S4/P3	Northumberland	Private	Private Road Crossing MP 49.49 (Saunders Street)	Trench	C-129	30431+80
S4/P3	Northumberland	NYSDOT	Schuylerville Road and Wilton Gansevoort Road	Trench	C-131	30451+50 to 30453+0
S4/P3	Northumberland	Northumberland	Gurn Spring Road	Trench	C-132	30473+15
S4/P3	Wilton	Wilton	Pettis Road	Trench	C-140	30595+50
S4/P3	Wilton	Saratoga County		HDD#32	C-142	30622+00
S4/P3	Wilton	Wilton	Scout Road	Trench	C-144	30651+00 to 30651+5
	Wilton	Private	Private Road Crossing MP 44.41	Trench	C-147	30702+30
S4/P3	Wilton	Wilton	Edie Road	Trench	C-148	30716+50 to 30717+0
S4/P3	Wilton	Wilton	Jones Road	HDD#36	C-154	30798+50 to 30799+0
S4/P3	Wilton	Private	Private Road Crossing MP 42.16	Trench/HDD#36	C-154	30804+40
	Wilton	Private	Private Road Crossing MP 41.74	Trench	C-156	30825+35
			Adirondack Northway (I-87 Northbound and			
S4/P3	Wilton	NYSDOT	Southbound)	HDD#37	C-157	30841+00 to 30846+0
S4/P3	Wilton	Wilton	Jones Road	Trench	C-159	30871+20
S4/P3	Wilton	NYSDOT	Maple Avenue (SR-9)	HDD#39	C-162	30916+50 to 30917+5
S5/P3	Greenfield	Greenfield	Clinton Street	Trench (Daralla)	C-166	30989+50
C	C	C	D1C.14 D 1	Trench (Parallel	C 160 0 C 160	210121004-210264
S5/P3	Greenfield	Greenfield	Bloomfield Road	Construction)		31013+00 to 31026+0
S5/P3	Saratoga Springs	Saratoga Springs	Denton Road	Trench	C-169	31026+00 to 31027+0
S5/P3 S5/P3	Saratoga Springs	<u> </u>	Church Street Paved Roadway	HDD#42 HDD#43	C-171 C-173	31061+75 to 31062+5 31085+25 to 31086+0
33/P3	Saratoga Springs	riivaie	raveu Koauway	43#4טעוון	C-1/3	31083+23 W 31080+C

Juris diction

Fort Edward

Fort Edward

Fort Edward

NYSDOT

Fort Edward

Fort Edward

Fort Edward

Fort Edward

Moreau

S4/P3

S4/P3

S4/P3

S4/P3

S4/P3

Description

East Street

Center Street

Canal Street

NYS Rt 197

Saratoga County | West River Road

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

HDD#43

HDD#44

HDD#45

HDD#47

HDD#49

Trench/HDD#47 C-182

C-173

C-174

C-188

31087+00 to 31087+50

31103+25 to 31103+75

31159+50 to 31160+50

31220+00 to 31222+00

31223+50 to 31225+00

31313+00 to 31313+50

31356+00 to 31356+50

KIEWIT PROJECT NO. 21162

CHA PROJECT NO.

DRAWING NO.

G-014

AS NOTED DATE

PACKAGE 3 - ROAD AND HIGHWAY CROSSINGS

DB APP DRAWN BY: JJE DESIGNED BY: JTM APPROVED BY: JPR REV. NO.

Washington Street

Gravel/Dirt Roadway

Ballston Avenue

Table 4.2 - Structures within 100 Feet of HDD or Trenching Operations Location (Approximate Parcel ID Sheet Number Notes Structure see Drawings for 163.15-1-2 Trench Private Residence C-107 A-P3-11+00 Private Residence 163.14-2-7 C-107 A-P3-14+50 Trench A-P3-11+20 to A-P3-163.18-3-35 C-107 Railroad / Industrial Building Trench 17+50 Commercial/Industrial Building 163.18-3-35.1 A-P3-33+00 C-108 HDD#22 171.6-1-17 Private Residence C-108 A-P3-33+25 171.6-2-52 Private Residence C-108 A-P3-34+00 Trench Private Residence 171.6-2-1 C-108 A-P3-34+00 171.6-2-2 A-P3-34+00 Trench Private Residence C-108 Trench/Splice Private Residence 171.6-2-53 C-108 A-P3-35+50 HDD#24 171.6-2-51 C-108 A-P3-40+00 Private Residence/Garage Located in Saratoga 65.-1-17 C-112 Telecommunications Building A-P3-90+00 Trench HDD#25A 78.-1-10 Private Residence/Shed C-115 30216+00 Private Residence 78.-1-11 C-116 30228+00 Trench Private Residence 78.-1-12 Trench C-116 30229+50 78.-1-16.2 30233+00 Trench Private Residence C-116 Private Residence/Shed 78.-1-17.2 C-116 30235+00 Trench Intersection of RR ROW 65.-1-16.1 C-126 Railroad / Industrial Building 30378+00 Trench and Mott Road Trench Industrial Building 103.8-1-7.1 C-129 30428+00 107.-1-2 Trench C-129 30423+00 Private Residence 103.8-11 C-129 30433+00 Trench Private Residence 103.8-2-2 30437+00 C-130 Trench Private Residence 103.8-1-12 C-130 Trench 30436+00 Private Residence 103.8-1-13 **C-130** 30436+50 Trench Private Residence 103.8-1-14 30437+00 Trench Private Residence C-130 103.8-1-15 C-130 30438+00 Trench Private Residence 103.8-1-46 C-130 Trench Private Residence 30439+00 103.8-1-16.11 C-130 30440+50 Trench Private Residence Trench Auto Dealership/Commercial Building 103.8-1-44 C-130 30442+00 103.12-1-4 C-130 30444+00 Trench Private Residence 103.12-1-6 C-130 Trench Private Residence 30445+00 Private Residence 103.12-1-7 C-130 30447+50 Trench Trench 103.12-1-8 C-130 30448+00 Private Residence Intersection of Railroad 103.12-2-1.3 C-130 30447+50 Private Residence Trench Avenue and Korbor Road 103.12-2-50 C-130 30443+25 Trench Private Residence Trench Private Residence 103.12-2-4 C-130 30443+00 103.12-2-5 C-130 30442+50 Trench Private Residence 103.8-2-15 C-130 30441+50 Trench Private Residence 103.8-2-14 C-130 30440+00 Trench Private Residence 103.8-2-1 C-130 30438+00 Trench Private Residence Trench Industrial Building 103.12-2-43 C-131 30451+00 103.12-4-2 C-131 30455+00 Church Trench 103.12-4-3 C-131 30454+00 Commercial Building Railroad / Industrial Building 103.-2-17 30457+50 C-131 103.-2-18 C-132 30467+00 Trench Private Residence Near intersection of Gurns 103.-2-19 C-132 30470+00 Trench Private Residence Springs Road and RR ROW 116.-1-71 C-136 30533+00 Trench Private Residence Near intersection of ROW 116.-1-21 30591+00 Trench rivate Residence with Pettis Road 115.-3-43 C-140 30598+00 Trench Private Residence Near intersection of RR HDD#32 115.-3-23 C-142 30620+50 rivate Residence ROW with Ballard Road Near intersection of RR 30625+00 HDD#32/32A Private Residence/Commercial Building 128.-1-8.1 -142 ROW with Ballard Road At intersection of RR ROW 128.-1-19.1 C-144 30650+00 Trench Community Building and Scout Road Near intersection of RR 30714+00 Industrial/Commercial Building 128.-1-52.22 C-148 Trench ROW and Edie Road 141.-2-37 C-150 30747+00, 30749+00 Industrial Building/Shed Trench HDD#35 141.-2-36 C-150 30744+00 Private Residence/Shed 141.-2-76 C-150 30750+00 Commercial Building/Shed Trench Trench Private Residence/Shed 140.-16-1-12 C-155 30817+00 Near intersection of RR 153.-3-6 C-158 30869+00 Trench Private Residence ROW with Jones Road HDD#38 Utility Building 153.6-1-5 C-161 30904+00 Trench/HDD# 153.6-1-7 C-161 30908+00 rivate Residence HDD number likely will be 153.5-1-18 30915+00 HDD#38 Private Residence C-161

HDD#/ Trench	Structure	Parcel	ID	Sheet Number	Location (Approximate – see Drawings for Details)		Notes
HDD#38	Private Residence		153.5-1-19		C-162	30916+00	HDD number likely will be updated, At intersection of RR ROW and Maple Avenue
HDD#38	Private Residence		1531-7.1		C-162	30920+00	HDD number likely will be updated
Trench	Private Residence &	Shed	1521-26.1		C-168	31016+00, 31017+00	
HDD #42	Commercial/Industri	al Building	1651-25		C-171	31059+00	
Trench	Commercial Building		1652-84		C-173	31085+00	
Trench	Industrial Building		1781-50.111		C-177	31155+00	
Trench	Private Residence &	Shed	1911-59		C-183	31230+00, 31231+00	Near intersection of RR ROW and Ballston Avenue
Trench	Private Residence		1911-51		C-183	31241+00	
Trench	Railroad Signal Build	ling	1781-35.111		C-187	31292+50	
Trench	Private Residence/S	hed	2031-4		C-187	31294+50	
Trench	Barn/Shed		2031-39.1		C-187	31301+00	
Trench	Private Residence		2031-22		C-188	31306+00	
Trench	Commercial Building	3	2031-32.3		C-188	31305+00	
Trench	Private Residence		203.19-2-27.14	1	C-191	31352+00	
HDD#49	Private Residence &	Shed	203.19-2-10		C-191	31354+00	
HDD#49	Private Residence &	Shed	203.19-3-1		C-191	31356+00	Near intersection of RR ROW and Malta Avenue
Trench	Commercial/Industri	al Building	2034-8.3		C-191	31364+00	
HDD#50	Industrial/Railroad B	building	203.82-1-7		C-192	31368+00, 31371+00	
Trench	Private Residence		216.42-1-4.1		C-193	31393+43	

PACKAGE 3 - STRUCTURES WITHIN 100 FEET OF HDD OR TRENCHING OPERATIONS

Table 4.4A – CC 140 Waivers Requested for Segments 4 & 5 – Package 3

Segment/ Package	Parcel ID	Description	Location (Approximate – See Drawings for Details)	Comments
S4/P3	651-17	Permanent	30177+18 to 30182+58	
S4/P3	781-6	Permanent	30217+46 to 30217+46	
S4/P3	781-10	Permanent	30280+49 to 30281+83	
S4/P3	781-63.1	Permanent	30318+31 to 30326+27	
S4/P3	911-57	Permanent	30318+21 to 30326+27	
S4/P3	103.8-1-7.1	Permanent	30426+65 to 30428+01	
S4/P3	Gansevoort Road	Permanent	30451+38 to 30454+53	
S4/P3	103.12-4-2	Permanent	30454+53 to 30456+73	
S4/P3	1033-49	Permanent	30517+09 to 30518+63	
S4/P3	1412-5.2	Permanent	30760+50 to 30768+20	
S4/P3	1533-6	Permanent	30869+70 to 30870+44	
S4/P3	1532-29	Permanent	30871+86 to 30872+52	
S5/P3	Bloomfield Road ROW	Permanent	31013+06 to 31014+78	
S5/P3	1902-8	Permanent	31249+43 to 31256+11	

Note: Table 4.4A summarizes the easements that are in place along Segment 4 and 5 – Package 3 that CHPE is seeking waivers per CC 140. Section 4.7 summarizes the Certificate Holders justification for seeking waviers per CC 140.

PACKAGE 3 - CC 140 WAIVERS REQUESTED







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 ACTION ACTION ACTION AND ACTION ACTION AND ACTION AND ACTION AND ACTION AND ACTION AND ACTION ACTION AND ACTION ACTION AND ACTION ACTION ACTION ACTION AND ACTION ACTI

					CHAMPLAIN HUDSON POWER EX SEGMENTS 4 & 5 (PACKAGE 3) - CP: FORT EDWAR EM&CP DATA TABLES
0	04/05/2023	FINAL EM&CP SUBMISSION	JJE	JPR	
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	DRAWN BY: JJE DESIGNED BY: JTM APPROVED BY: JPR REV. NO.
				1	· ·= · · ·

CHAMPLAIN HUDSON POWER EXPRESS SEGMENTS 4 & 5 (PACKAGE 3) - CP: FORT EDWARD TO MILTON **EM&CP DATA TABLES**

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

G-015

AS NOTED DATE

X SH.NO.

Table 4.4B – Facility ROW Ownership and Easements

		2				
Segment / Package	Sheet	Parcel ID	Description	Location	Comments	Segment / Package
8				(Approximate Station)		G4 (72)
S4/P3	C-132	1032-22.2	Permanent	30465+17 to 30468+35	Private; NW of RR ROW	S4/P3 S5/P3
S4/P3	C-132 to C-133	1032-10	Temporary and Permanent	30474+19 to 30493+71	Private; NW of RR ROW	S5/P3
S4/P3	C-133	1032-10	Permanent	30491+28 to 30493+71	Private; NW of RR ROW	S5/P3
S4/P3	C-133 to C-134	1033-64	Temporary and Permanent	30493+71 to 30496+87	Private; NW of RR ROW	S5/P3
S4/P3	C-134	1033-63	Permanent	30496+87 to 30499+97	Private; NW of RR ROW	S5/P3
S4/P3	C-134	1033-63	Temporary	30496+87 to 30498+48	Private; NW of RR ROW	S5/P3
S4/P3	C-134 to C-135	1033-45	Permanent	30499+97 to 30517+09	Private; NW of RR ROW	S5/P3
S4/P3	C-135	1033-45	Temporary	30515+07 to 30517+09	Private; NW of RR ROW	S5/P3
S4/P3	C-135	1033-49	Temporary and Permanent	30517+09 to 30518+63	Private; NW of RR ROW	S5/P3
S4/P3	C-137	1161-70.2	Temporary	30540+66 to 30546+03	Private; NW of RR ROW	S5/P3
S4/P3	C-137	1161-70.2	Permanent	30543+37 to 30546+03	Private; NW of RR ROW	S5/P3

30546±03 to 30564±79

30555+71 to 30558+44

30563+86 to 30564+79

30564+79 to 30594+28

30564+79 to 30566+08

30572+95 to 30576+29

30586+80 to 30589+44

30594+28 to 30595+46

30594+84 to 30595+46

30595+46 to 30596+07

30605+33 to 30609+02

30615+98 to 30618+31

30616+59 to 30618+31

30618+31 to 30621+86

30618+31 to 30619+88

30621+86 to 30622+40

30622+63 to 30634+22

30622+63 to 30633+36

30633+36 to 30638+01

30638+01 to 30645+26

30638+85 to 30641+93

30645+26 to 30647+95

30647+95 to 30650+70

30648+46 to 30650+70

30650+70 to 30651+57

30651+57 to 30653+35

30653+35 to 30654+17

30654+17 to 30669+87

30654+17 to 30657+34

30671+27 to 30678+03

30674+02 to 30678+03

30678+03 to 30681+00

30708+16 to 30709+97

30708+16 to 30709+72

30713+21 to 30716+20

30716+20 to 30717+43

30717+43 to 30718+00

30718+00 to 30721+89

30718+00 to 30740+66

30740+66 to 30742+89

30770+01 to 30772+29

30772+29 to 30774+27

30781+72 to 30782+38

30784+50 to 30788+00

30795+10 to 30797+69

30797+69 to 30799+62

30799+62 to 30803+20

30803+20 to 30806+53

30837+10 to 30838+65

30837+49 to 30838+65

30838+65 to 30839+62

30839+62 to 30846+11

30839+62 to 30839+92

30846+11 to 30849+16

30846+48 to 30847+92

30848+30 to 30849+16

30849+16 to 30862+00

30849+16 to 30851+65

30869+70 to 30870+44

30870+44 to 30871+86

30871+86 to 30872+52

30871+86 to 30881+57

30890+19 to 30896+01

30892+17 to 30893+39

30903+30 to 30904+89

30904+04 to 30905+41

30905+41 to 30908+63

30908+63 to 30909+03

30908+63 to 30909+03

30909+03 to 30909+20

30909+03 to 30910+58

30909+89 to 30910+58

30910+58 to 30912+93

30911+26 to 30911+99

30912+93 to 30913+73

30913+73 to 30914+39

30914+39 to 30916+30

30919+60 to 30920+40

Private: NW of RR ROW

Private, NW of RR ROW

Private; NW of RR ROW

Private: NW of RR ROW

Private: NW of RR ROW

Private: NW of RR ROW

Private; NW of RR ROW

Private; NW of RR ROW

Public: Pettis Road ROW

Private; NW of RR ROW

Private: NW of RR ROW

Private: NW of RR ROW

Private: NW of RR ROW

Private; NW of RR ROW

Public: Ballard Road ROW

Private; SE of RR ROW

Private, SE of RR ROW

Public

Private: SE of RR ROW

Private: SE of RR ROW

Public; SE of RR ROW

Public: SE of RR ROW

Public; SE of RR ROW

Public: SE of RR ROW

Private; SE of RR ROW

Private: SE of RR ROW

Private; SE of RR ROW

Private: SE of RR ROW

Public; NW of RR ROW

Public: NW of RR ROW

Private, NW of RR ROW

Public; NW of RR ROW

Public; NW of RR ROW

Public; NW of RR ROW

Public: Fdie Road ROW

Public; NW of RR ROW

Private; NW of RR ROW

Private: NW of RR ROW

Private; NW of RR ROW

Private: NW of RR ROW

Private, Access Road; North of RR

ROW

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Public: Jones Road ROW

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Public; Maple Ave ROW

Private; Access Road; North of RR

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Public: North of RR ROW

Private: NW of RR ROW

Private: NW of RR ROW

egment / ackage	Sheet	Parcel ID	Description	Location	Comme nts
S4/P3	C-162	Daniels Road	Temporary	(Approximate Station) 30920+82 to 30922+17	Public; Daniels Road ROW
S5/P3	C-166	1522-18	Temporary	30986+92 to 30989+30	Private; NW of RR ROW
S5/P3	C-166	1522-18	Permanent	30987+76 to 30989+30	Private; NW of RR ROW
S5/P3 S5/P3	C-166 C-166	1522-18 Clinton Street	Temporary Temporary and Permanent	30988+08 to 30989+30 30989+30 to 30989+66	Private; NW of RR ROW Public; Clinton Street ROW
S5/P3	C-166 to C-167	1522-10.32	Temporary and Permanent	30989+66 to 30991+41	Private; NW of RR ROW
S5/P3	C-167	1381-67	Temporary	30998+29 to 31000+16	Public; NW of RR ROW
S5/P3 S5/P3	C-168 C-168	Bloomfield Road Bloomfield Road	Permanent Temporary	31013+06 to 31014+78 31013+06 to 31015+72	Public; Bloomfield Road ROV Public; Bloomfield Road ROV
S5/P3	C-169	Denton Road	Temporary	31026+12 to 31027+53	Public; Denton Road ROW
S5/P3	C-171	1651-25	Temporary	31051+19 to 31052+36	Private; West of RR ROW
S5/P3 S5/P3	C-171 C-171	1651-25 1651-25	Temporary Temporary	31054+41 to 31057+54 31061+05 to 31061+27	Private; West of RR ROW Private; West of RR ROW
S5/P3	C-171	Chrurch Street	Permanent	31063+27 to 31063+27	Public; Church Street ROW
S5/P3 S5/P3	C-171	1652-79 1652-79	Temporary	31063+27 to 31063+66 31063+27 to 31065+07	Private; West of RR ROW Private; West of RR ROW
S5/P3	C-171 to C-172 C-172	1652-4.11	Temporary and Permanent Permanent	31065+07 to 31066+11	Private; West of RR ROW
S5/P3	C-172	1652-4.11	Temporary	31065+07 to 31067+60	Private; West of RR ROW
S5/P3 S5/P3	C-173 C-173	1652-84 Washington Street	Temporary	31086+21 to 31086+74 31088+70 to 31088+83	Private; West of RR ROW Public; Washington Street RC
S5/P3	C-173	1652-75	Temporary Permanent	31088+17 to 31091+90	Private; West of RR ROW
S5/P3	C-173 to C-174	1652-75	Temporary	31091+90 to 31096+44	Private; West of RR ROW
S5/P3 S5/P3	C-174 C-174	1652-36.1 1652-36.1	Temporary Permanent	31099+61 to 31101+57 31099+61 to 31102+72	Private; West of RR ROW Private; West of RR ROW
S5/P3	C-174	1652-36.1	Temporary	31102+07 to 31102+72	Private; West of RR ROW
S5/P3	C-174	Grand Avenue	Permanent	31102+72 to 31104+79	Private; Grand Avenue ROW
S5/P3 S5/P3	C-174 C-174	1655-2-45.2 1655-2-45.2	Temporary Permanent	31104+79 to 31107+37 31104+79 to 31107+37	Private; NW of RR ROW Private; NW of RR ROW
S5/P3	C-174	1655-2-45.2	Temporary	31104+79 to 31107+37 31106+00 to 31107+37	Private; NW of RR ROW
S5/P3	C-174	1655-2-45.2	Temporary	31105+33 to 31105+71	Private; NW of RR ROW
S5/P3 S5/P3	C-174 to C-175 C-174	1655-2-45.1 1655-2-45.1	Permanent Temporary	31107+37 to 31115+31 31107+37 to 31107+69	Private; NW of RR ROW Private; NW of RR ROW
S5/P3 S5/P3	C-174 C-174	1655-2-45.1 1655-2-45.1	Temporary	31107+37 to 31107+69 31107+37 to 31107+69	Private; NW of RR ROW Private; NW of RR ROW
S5/P3	C-175	1655-2-45.1	Temporary	31113+21 to 31116+86	Private; NW of RR ROW
S5/P3	C-176	Grande Blvd	Temporary	31137+63 to 31138+13	Public; Grand Blvd ROW
S5/P3 S5/P3	C-178 C-178	1781-50.11 1781-50.11	Temporary Permanent	31155+41 to 31158+12 31156+12 to 31158+12	Private; West of RR ROW Private; West of RR ROW
S5/P3	C-178	1781-30.11	Temporary	31158+12 to 31158+78	Public; West of RR ROW
S5/P3	C-178		Permanent	31158+12 to 31160+91	Public; West of RR ROW
S5/P3 S5/P3	C-178 C-178	1783-18 1783-18	Permanent Temporary	31160+91 to 31165+13 31162+82 to 31165+50	Private; West of RR ROW Private; West of RR ROW
S5/P3	C-178	1783-18	Temporary	31173+11 to 31177+31	Private; West of RR ROW
S5/P3	C-179	1783-18	Permanent	31176+24 to 31179+20	Private; West of RR ROW
S5/P3 S5/P3	C-179 to C-180 C-181	1783-21 1911-1	Permanent Permanent	31179+20 to 31206+75 31206+75 to 31213+47	Private; West of RR ROW Public; West of RR ROW
S5/P3	C-181	1911-1	Temporary	31207+12 to 31211+26	Public; West of RR ROW
S5/P3	C-181 to C-182	1911-1	Temporary	31211+73 to 31219+44	Public; West of RR ROW
S5/P3 S5/P3	C-182 C-182	1911-1 1911-1	Temporary Permanent	31219+70 to 31222+38 31219+44 to 31222+38	Public; West of RR ROW Public; West of RR ROW
S5/P3	C-182	1911-1	Temporary	31219+79 to 31222+38	Public; West of RR ROW
S5/P3	C-182	Ballston Avenue	Temporary	31222+38 to 31222+89	Public; Ballston Ave ROW
S5/P3 S5/P3	C-182 C-182	Ballston Avenue Ballston Avenue	Permanent Temporary	31222+38 to 31226+49 31225+26 to 31226+49	Public; Ballston Ave ROW Public; Ballston Ave ROW
S5/P3	C-182	1911-59	Temporary	31226+01 to 31228+17	Private; West of RR ROW
S5/P3	C-183	1911-50	Temporary	31237+86 to 31240+58	Private; NW of RR ROW
S5/P3 S5/P3	C-183 C-183	1911-50 1911-50	Permanent Temporary	31238+21 to 31240+58 31238+71 to 31240+58	Private; NW of RR ROW Private; NW of RR ROW
S5/P3	C-183	1911-51	Permanent	31240+58 to 31241+41	Private; NW of RR ROW
S5/P3	C-183	1911-51	Temporary	31240+58 to 31241+41	Private; NW of RR ROW
S5/P3 S5/P3	C-183 C-183	1911-51 1911-35	Temporary Temporary	31240+58 to 31241+41 31241+41 to 31241+85	Private; NW of RR ROW Private; NW of RR ROW
S5/P3	C-183	1911-35	Temporary	31241+41 to 31241+05	Private; NW of RR ROW
S5/P3	C-183	1911-35	Permanent	31241+41 to 31243+97	Private; NW of RR ROW
S5/P3 S5/P3	C-183 to C-184 C-184	1911-34 1902-8	Temporary and Permanent Temporary	31243+97 to 31249+43 31249+43 to 31251+98	Private; NW of RR ROW Private; NW of RR ROW
S5/P3	C-184	1902-8	Permanent	31249+43 to 31256+11	Private; NW of RR ROW
S5/P3	C-184	1902-8	Temporary	31253+11 to 31256+11	Private; NW of RR ROW
S5/P3 S5/P3	C-184 C-184	1902-8 1902-9	Temporary Temporary	31255+23 to 31256+11 31256+11 to 31256+54	Private; NW of RR ROW Private; NW of RR ROW
S5/P3	C-184 to C-185	1902-9	Temporary Temporary and Permanent	31256+11 to 31261+64	Private; NW of RR ROW
S5/P3	C-185	1902-12	Temporary and Permanent	31261+64 to 31265+31	Private; NW of RR ROW
S5/P3 S5/P3	C-185 C-185	1902-15 1902-16	Temporary and Permanent Temporary and Permanent	31265+31 to 31268+66 31268+66 to 31270+26	Private; NW of RR ROW Private; NW of RR ROW
S5/P3	C-185	1902-17	Temporary and Permanent	31270+26 to 31271+31	Private; NW of RR ROW
S5/P3	C-185	1902-18	Temporary and Permanent	31271+31 to 31272+32	Private; NW of RR ROW
S5/P3 S5/P3	C-185 C-185 to C-186	1902-19 1902-20	Temporary and Permanent Temporary and Permanent	31272+32 to 31273+87 31273+87 to 31275+51	Private; NW of RR ROW Private; NW of RR ROW
S5/P3	C-186	1902-21	Temporary and Permanent	31275+51 to 31283+83	Private; NW of RR ROW
S5/P3	C-186	Ballston Avenue	Temporary and Permanent	31283+83 to 31284+98	Public; Ballston Ave ROW
S5/P3 S5/P3	C-186 to C-187 C-187	2031-3 2031-3	Temporary and Permanent Temporary	31284+98 to 31293+03 31293+40 to 31294+31	Private; NW of RR ROW Private; NW of RR ROW
S5/P3	C-187	Ballston Avenue	Temporary	31293+40 to 31294+31	Public; NW of RR ROW
S5/P3	C-188	2031-37	Temporary	31308+76 to 31312+43	Private; NW of RR ROW
S5/P3 S5/P3	C-188 C-188	2031-37 2031-37	Permanent Temporary	31308+85 to 31312+43 31311+41 to 31312+43	Private; NW of RR ROW Private; NW of RR ROW
S5/P3	C-188	Northline Road	Temporary and Permanent	31312+43 to 31313+46	Public; Northline Road ROW
S5/P3	C-188	2031-29	Temporary	31313+46 to 31314+47	Private; NW of RR ROW
S5/P3 S5/P3	C-188 C-188	2031-29 2031-29	Temporary Permanent	31313+46 to 31318+10 31313+46 to 31318+10	Private; NW of RR ROW Private; NW of RR ROW
S5/P3	C-188 to C-189	203.11-1-26	Temporary	31318+10 to 31321+29	Private; NW of RR ROW
S5/P3	C-189	203.11-1-26	Temporary	31321+34 to 31322+02	Private; West of RR ROW
S5/P3	C-189 to C-190	2031-19	Temporary	31322+53 to 31337+07	Private; Ballston Show Up Yar West of RR ROW
S5/P3	C-189 to C-190	2034-1.1	Temporary	31334+32 to 31340+56	Private; West of RR ROW
S5/P3 S5/P3	C-191 C-191	203.19-3-1 Malta Avenue	Permanent Permanent	31354+72 to 31355+73 31355+73 to 31356+57	Private; East of RR ROW Public; Malta Ave ROW
S5/P3	C-191	2034-7	Temporary	31356+57 to 31360+32	Private; East of RR ROW
S5/P3	C-191	2034-7	Permanent	31356+57 to 31360+32	Private; East of RR ROW
S5/P3 S5/P3	C-191 C-191	2034-8.1 2034-8.1	Permanent Temporary	31360+32 to 31361+80 31360+32 to 31361+80	Private; East of RR ROW Private; East of RR ROW
S5/P3	C-191 C-192	2034-8.1	Temporary	31366+36 to 31367+58	Private; East of RR ROW Private; East of RR ROW
	C-192	2162-1	Temporary	31376+26 to 31378+52	Private; West of RR ROW
S5/P3 S5/P3	C-193	2162-1	Temporary	31380+99 to 31384+30	Private; West of RR ROW

Power Express





S4/P3

C-137 to C-138

C-138

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C-138 to C-139

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C-140

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C-157 to C-158

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C-161 to C-162

C-162

116.-1-70.1

116.-1-70.1

116.-1-70.1

116.-1-25

116.-1-25

116.-1-25

116.-1-25

Pettis Road

115.-3-44

115 - 3-46

115.-3-46

115.-3-23

115.-3-23

Ballard Road

128.-1-8.1

128.-1-8.1

128.-1-99

128.-1-18

128.-1-18

128.-1-19.2

128.-1-19.1

128.-1-19.1

Scout Road

128.-1-24

128.-1-7.111

128 -1-7 111

128.-1-83.11

128.-1-84

128.-1-84

128.-1-84

Fdie Road

128.-1-84

141.-2-12.1

141 -2-37

141.-2-4.2

141.-1-29

141.-1-29

Putnam Lane ROW

141.-1-31.11

Jones Road

141.-1-31.11

141.-1-31.11

140.-2-55

140.-2-21.1

I-87 ROW

I-87 ROW

140.-2-21.2

140.-2-21.2

140.-2-21.2

153.-3-102.1

140.-2-25.2

153.-3-6

Jones Road

153.-2-29

153.-2-29

153.-2-2

153.-2-28

153.6-1-5

153.6-1-6

153.6-1-7

153.-2-25

153.-2-25

1153.5-1-14

1153.5-1-14

1153.5-1-14

153 5-1-16

153 5-1-17

153.5-1-18

153.5-1-18

153.5-1-19

Maple Avenue

116 -1-19

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IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY, IF AN 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 SEGMENTS 4 & 5 (PACKAGE 3) - CP: FORT EDWARD TO MILTON **EM&CP DATA TABLES**

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

G-016

JJE JPR 04/05/2023 FINAL EM&CP SUBMISSION AS NOTED DATE DB APP DRAWN BY: JJE DESIGNED BY: JTM APPROVED BY: JPR REV. NO. DATE SUBMITTAL / REVISION DESCRIPTION X SH.NO.

	Co-located Utilities						
		Location (Approximate - See Drawings for Details)					
Utility Type Underground (UG) Overhead (OH)	Parallel or Perpendicular to the Alignment	Station - Starting Point for Parallel and Crossing Point for Perpendicular	Station - Ending Point for Parallel				
UG Utility (Fiber)	Parallel	30017+00	30069+50				
Storm Drainage Pipe/Culvert	Perpendicular	30031+15					
Storm Drainage Pipe/Culvert	Perpendicular	30063+12					
Storm Drainage Pipe/Culvert	Perpendicular	30063+81					
Storm Drainage Pipe/Culvert	Perpendicular	30063+90					
OH Utility (Electric)	Parallel	30064+46	30099+97				
OH Utility (Electric)	Perpendicular	30068+97					
OH Utility (Electric)	Parallel	30068+97	30078+42				
UG Utility (Fiber)	Perpendicular	30069+50					
OH Utility (Electric)	Parallel	30078+42	30081+72				
OH Utility (Electric)	Perpendicular	30081+72					
OH Utility (Electric)	Parallel	30081+72	30093+50				
UG Utility (Gas) OH Utility (Transmission)	Parallel Perpendicular	30087+53 30089+13	30098+50				
OH Utility (Transmission)	Darnandiaular	30093+15					
UG Utility (Gas)	Perpendicular Perpendicular	30093+13					
OH Utility (Electric)	Perpendicular	30096+76					
OH Utility (Transmission)	Perpendicular	30096+80					
Water Line	Parallel	30097+30	30101+20				
Unknown Utility	Perpendicular	30097+95					
UG Utility (Gas)	Perpendicular	30098+51					
UG Utility (Electric)	Perpendicular	30098+55					
UG Utility (Electric)	Perpendicular	30098+55					
UG Utility (Electric)	Perpendicular	30098+65					
UG Utility (Electric)	Parallel	30098+78	30102+26				
UG Utility (Electric)	Parallel	30098+80	30102+85				
UG Utility (Fiber)	Perpendicular	30099+00					
Unknown Utility	Parallel	30099+12	30105+00				
UG Utility (Electric)	Perpendicular	30099+81					
OH Utility (Electric) Unknown Utility	Perpendicular Perpendicular	30101+33 30108+60					
UG Utility (Fiber)	Perpendicular Perpendicular	30108+60					
UG Utility (Fiber)	Perpendicular	30110+25					
UG Utility (Fiber)	Perpendicular	30111+25					
OH Utility (Electric)	Parallel	30114+48	30116+66				
OH Utility (Electric)	Perpendicular	30114+83					
Sanitary Sewer	Perpendicular	30115+20					
Sanitary Sewer	Perpendicular	30115+25					
UG Utility (Fiber)	Perpendicular	30115+25					
Water Line	Perpendicular	30115+45					
UG Utility (Electric)	Perpendicular	30115+50					
UG Utility (Fiber)	Perpendicular	30115+75					
UG Utility (Fiber) UG Utility (Electric)	Perpendicular Perpendicular	30115+75 30116+15					
• ` ` '							
UG Utility (Fiber)	Perpendicular Perpendicular	30117+75					
UG Utility (Fiber)	Perpendicular Perpendicular	30124+60 30126+25					
UG Utility (Fiber) Water Line	Perpendicular Perpendicular	30126+25 30126+40					
vv atci Lille	Perpendicular Perpendicular	30126+60					
Storm Sawar	i cipendiculai		21202 : 45				
Storm Sewer UG Utility (Fiber)	Parallel	[3()127±00 L	31392+45				
Storm Sewer UG Utility (Fiber) UG Utility (Fiber)	Parallel Parallel	30127+00 30127+83	31392+45 30134+78				

		Location (Approximate - See Drawings for Details)			
Utility Type Underground (UG) Overhead (OH)	Parallel or Perpendicular to the Alignment	Station - Starting Point for Parallel and Crossing Point for Perpendicular	Station - Ending Point for Parallel		
UG Utility (Fiber)	Perpendicular	30130+75			
Abandoned UG Utility	•				
(Gas)	Perpendicular	30130+82			
Storm Sewer	Perpendicular	30130+85			
UG Utility (Gas)	Perpendicular	30130+90			
UG Utility (Fiber)	Perpendicular	30131+00			
Sanitary Sewer	Perpendicular	30131+03			
Water Line	Perpendicular	30131+25			
UG Utility (Fiber)	Perpendicular	30132+58			
UG Utility (Fiber)	Parallel	30138+75	30153+43		
Storm Drainage Pipe/Culvert	Parallel	30143+74	30149+96		
Storm Drainage Pipe/Culvert	Perpendicular	30169+68			
Storm Drainage Pipe/Culvert	Perpendicular	30172+18			
Storm Drainage Pipe/Culvert	Perpendicular	30172+76			
Storm Drainage Pipe/Culvert	Perpendicular	30172+45			
UG Utility (Electric)	Parallel	30172+79	30202+04		
OH Utility (Electric)	Perpendicular	30172+90			
Storm Drainage Pipe/Culvert	Perpendicular	30173+05			
UG Utility (Electric)	Perpendicular	30173+10			
UG Utility (Fiber) Storm Drainage	Perpendicular Perpendicular	30174+10 30175+85			
Pipe/Culvert Storm Drainage Pipe/Culvert	Perpendicular	30191+37			
OH Utility (Electric)	Perpendicular	30191+57			
OH Utility (Transmission)	Perpendicular	30196+99			
Storm Drainage Pipe/Culvert	Perpendicular	30198+97			
UG Utility (Electric)	Perpendicular	30200+87			
Storm Drainage Pipe/Culvert	Perpendicular	30211+28			
Storm Drainage Pipe/Culvert	Perpendicular	30216+75			
Storm Drainage Pipe/Culvert	Perpendicular	30220+35			
OH Utility (Electric)	Perpendicular	30220+59			
Storm Drainage Pipe/Culvert	Perpendicular	30225+58			
Storm Drainage Pipe/Culvert	Perpendicular	30230+60			
Storm Drainage Pipe/Culvert	Perpendicular	30234+80			
Storm Drainage Pipe/Culvert	Perpendicular	30250+15			
Storm Drainage Pipe/Culvert	Perpendicular	30286+20			
Storm Drainage Pipe/Culvert	Perpendicular	30286+49			
Storm Drainage Pipe/Culvert	Perpendicular	30307+05			
UG Utility (Electric) UG Utility (Electric)	Parallel Perpendicular	30312+64 30312+95	30313+36		
UG Utility (Telephone)	Perpendicular	30313+00			
OH Utility (Electric)	Perpendicular	30313+17			
UG Utility (Telephone)	Perpendicular	30313+25			
Storm Drainage Pipe/Culvert	Perpendicular	30321+95			
Storm Drainage Pipe/Culvert	Perpendicular	30378+00			
UG Utility (Electric)	Parallel	30378+02	30379+60		
Storm Drainage Pipe/Culvert	Perpendicular	30379+12			

		Location (Approximate - See Drawings for Details)			
Utility Type Underground (UG)	Parallel or Perpendicular to the	Station - Starting Point for Parallel			
Overhead (OH)	Alignment	and Crossing Point for Perpendicular	Station - Ending Point for Paralle		
OH Utility (Electric)	Perpendicular	30379+73			
OH Utility (Telephone)	Perpendicular	30379+90			
Storm Drainage Pipe/Culvert	Perpendicular	30390+85			
Storm Drainage Pipe/Culvert	Perpendicular	30401+00			
Storm Drainage Pipe/Culvert	Perpendicular	30401+20			
Storm Drainage Pipe/Culvert	Parallel	30411+00	30414+00		
Storm Drainage Pipe/Culvert	Parallel	30418+80	30421+10		
OH Utility (Electric)	Parallel	30426+91	30431+80		
OH Utility (Electric)	Perpendicular	30430+85			
Storm Drainage Pipe/Culvert	Parallel	30431+50	30433+95		
OH Utility (Electric) OH Utility (Electric)	Perpendicular Parallel	30431+74 30449+80	30454+25		
OH Utility (Electric)	Perpendicular	30450+58			
OH Utility (Electric)	Perpendicular	30451+95	20452+02		
UG Utility (Electric) UG Utility (Gas)	Parallel Perpendicular	30452+38 30453+96	30452+93		
Storm Drainage	Perpendicular	30466+70			
Pipe/Culvert OH Utility (Telephone)	Perpendicular	30473+50			
Storm Drainage Pipe/Culvert	Perpendicular	30487+50			
Storm Drainage Pipe/Culvert	Perpendicular	30548+75			
Storm Drainage Pipe/Culvert	Perpendicular	30549+80			
UG Utility (Electric)	Parallel	30564+67	30594+86		
Storm Drainage Pipe/Culvert	Perpendicular	30587+86			
Storm Drainage Pipe/Culvert	Parallel	30594+90	30595+86		
OH Utility (Electric)	Perpendicular	30595+71			
UG Utility (Fiber) OH Utility (Telephone)	Perpendicular Perpendicular	30621+55 30621+85			
OH Utility (Electric)	Perpendicular	30622+33			
UG Utility (Electric)	Perpendicular	30622+46			
UG Utility (Electric)	Perpendicular	30622+55			
UG Utility (Electric)	Perpendicular	30622+60			
UG Utility (Fiber)	Perpendicular	30624+00			
UG Utility (Fiber) UG Utility (Fiber)	Perpendicular Parallel	30625+64 30629+34	30668+00		
UG Utility (Fiber)	Parallel	30629+34	30670+24		
OH Utility (Electric)	Perpendicular	30650+85			
JG Utility (Telephone)	Perpendicular	30650+93			
UG Utility (Telephone)	Perpendicular	30653+05			
Storm Drainage Pipe/Culvert	Perpendicular	30666+71			
UG Utility (Fiber)	Perpendicular	30668+00			
UG Utility (Fiber) OH Utility (Electric)	Perpendicular Perpendicular	30670+24 30706+24			
Storm Drainage Pipe/Culvert	Perpendicular Perpendicular	30708+90			
UG Utility (Electric)	Parallel	30717+47	30718+91		
Storm Drainage Pipe/Culvert	Parallel	30758+60	30780+25		
Storm Drainage Pipe/Culvert	Perpendicular	30758+78			
Storm Drainage Pipe/Culvert	Perpendicular	30770+16			
Storm Drainage Pipe/Culvert	Perpendicular	30780+02			
Storm Drainage Pipe/Culvert	Perpendicular	30780+50			
Storm Drainage Pipe/Culvert	Perpendicular	30780+55			

PACKAGE 3 - CO-LOCATED UTILITIES







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					SEGMENTS 4 & 5 (PACKAGE 3) - CP: FORT EDWARI EM&CP DATA TABLES
0	04/05/2023	FINAL EM&CP SUBMISSION	JJE	JPR	
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	DRAWN BY: JJE DESIGNED BY: JTM APPROVED BY: JPR REV. NO.

CHAMPLAIN HUDSON POWER EXPRESS SEGMENTS 4 & 5 (PACKAGE 3) - CP: FORT EDWARD TO MILTON EM&CP DATA TABLES

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

G-017

		Location (Approximate - See Drawings for Details)			
Utility Type Underground (UG) Overhead (OH)	Parallel or Perpendicular to the Alignment	Station - Starting Point for Parallel and Crossing Point for Perpendicular	Station - Ending Point for Parallel		
OH Utility (Electric)	Perpendicular	30781+45			
Storm Drainage	Parallel	30792+60	30793+15		
Pipe/Culvert	r ai aiici	30792+00	3079 3 ±13		
Storm Drainage Pipe/Culvert	Parallel	30792+59	30792+94		
Storm Drainage	Perpendicular	30797+15			
Pipe/Culvert	1 erpendicular	3077713			
Storm Drainage Pipe/Culvert	Parallel	30803+00	30803+42		
Storm Drainage	Parallel	30803+00	30803+42		
Pipe/Culvert Storm Drainage					
Pipe/Culvert	Perpendicular	30808+21			
OH Utility (Electric)	Perpendicular	30823+64			
Storm Drainage Pipe/Culvert	Perpendicular	30824+00			
Storm Drainage	Doug!!-1	20025100	20025 + 40		
Pipe/Culvert	Parallel	30825+00	30825+40		
Storm Drainage Pipe/Culvert	Parallel	30825+00	30825+40		
Storm Drainage	D 1' 1	20021-17			
Pipe/Culvert	Perpendicular	30831+17			
Water Line	Perpendicular	30838+05			
Storm Drainage Pipe/Culvert	Perpendicular	30838+25			
Storm Drainage	Perpendicular	30839+85			
Pipe/Culvert					
UG Utility (Fiber) UG Utility (Fiber)	Perpendicular Perpendicular	30840+00 30840+10			
UG Utility (Fiber)	Perpendicular	30840+24			
UG Utility (Fiber)	Perpendicular	30846+00	20071.10		
Storm Sewer Storm Sewer	Parallel Parallel	30870+64 30870+81	30871+18 30871+19		
UG Utility (Fiber)	Perpendicular	30871+18	300,1:13		
OH Utility (Electric)	Perpendicular	30871+18			
OH Utility (Electric) OH Utility (Electric)	Perpendicular Perpendicular	30871+25 30882+69			
OH Utility (Electric)	Perpendicular	30887+55			
OH Utility (Electric)	Perpendicular	30889+20			
H Utility (Transmission) H Utility (Transmission)	Perpendicular Perpendicular	30889+50 30892+03			
Storm Drainage					
Pipe/Culvert	Perpendicular	30898+80			
Storm Drainage Pipe/Culvert	Perpendicular	30901+89			
OH Utility (Electric)	Perpendicular	30904+25			
OH Utility (Electric)	Perpendicular	30904+25			
OH Utility (Electric) UG Utility (Gas)	Perpendicular Perpendicular	30909+19 30909+21			
H Utility (Transmission)	Perpendicular Perpendicular	30909+21			
Storm Drainage	Perpendicular	30911+21			
Pipe/Culvert UG Utility (Gas)	Perpendicular	30916+54			
UG Utility (Gas) UG Utility (Electric)	Perpendicular Perpendicular	30916+59			
OH Utility (Electric)	Perpendicular	30916+75			
UG Utility (Telephone)	Perpendicular	30917+13			
Storm Drainage Pipe/Culvert	Perpendicular	30917+21			
OH Utility (Electric)	Perpendicular	30917+24			
Storm Drainage	Perpendicular	30917+40			
Storm Drainage Pipe/Culvert	Perpendicular	30922+61			
Storm Drainage	Parallel	30938+14	30938+49		
Pipe/Culvert	1 a1 a11 0 1	30/30+14	J0/J0+ 1 7		
Storm Drainage Pipe/Culvert	Perpendicular	30949+03			
Storm Drainage	Darnandiavlar	30954+18			
Pipe/Culvert	Perpendicular	3U934†18			
Storm Drainage Pipe/Culvert	Perpendicular	30960+09			
Storm Drainage	D and 2 1! 1	20070100			
Pipe/Culvert	Perpendicular	30969+08			

		Location (Approximate -	See Drawings for Details)
Utility Type Underground (UG) Overhead (OH)	Parallel or Perpendicular to the Alignment	Station - Starting Point for Parallel and Crossing Point for Perpendicular	Station - Ending Point for Paral
UG Utility (Telephone)	Perpendicular	30970+28	
OH Utility (Electric)	Perpendicular	30974+59	
OH Utility (Transmission)	Perpendicular	30976+10	
Storm Drainage Pipe/Culvert	Perpendicular	30981+60	
Storm Drainage Pipe/Culvert	Perpendicular	30987+69	
OH Utility (Electric) UG Utility (Electric)	Perpendicular Perpendicular	30989+46 31002+28	
Storm Drainage Pipe/Culvert	Perpendicular Perpendicular	31002+28 31002+58	
Storm Drainage Pipe/Culvert	Perpendicular	31007+74	
UG Utility (Electric)	Parallel	31008+12	31015+84
OH Utility (Electric)	Perpendicular	31012+14	
OH Utility (Electric)	Perpendicular	31012+28	
Water Line	Parallel	31014+00	31025+43
OH Utility (Electric)	Perpendicular	31015+12	
Storm Drainage Pipe/Culvert	Perpendicular	31018+96	
Storm Drainage Pipe/Culvert Storm Drainage	Perpendicular	31026+00	
Pipe/Culvert	Perpendicular	31026+13	
OH Utility (Electric)	Perpendicular	31027+03	
UG Utility (Telephone) Storm Drainage	Parallel	31035+00	31061+00
Pipe/Culvert	Perpendicular	31046+52	
Water Line	Parallel	31049+90	31064+27
OH Utility (Electric)	Parallel	31050+37	31065+00
OH Utility (Electric)	Parallel	31050+34	31059+95
UG Utility (Gas)	Perpendicular	31054+00	
Propane Tanks Storm Drainage	Perpendicular	31054+00	
Pipe/Culvert	Perpendicular	31056+25	
OH Utility (Electric)	Parallel	31057+09	31060+87
OH Utility (Electric)	Perpendicular	31057+17	
UG Utility (Electric)	Perpendicular	31057+26	210(0) 92
UG Utility (Electric) Water Line	Parallel Perpendicular	31060+00 31060+67	31060+82
OH Utility (Electric)	Perpendicular Perpendicular	31060+82	
UG Utility (Telephone)	Perpendicular	31060+96	
Water Line	Perpendicular	31062+81	
OH Utility (Electric)	Perpendicular	31062+86	
UG Utility (Gas)	Perpendicular	31062+89	
OH Utility (Electric)	Perpendicular Perpendicular	31063+45	
OH Utility (Electric) Water Line	Perpendicular Parallel	31064+26 31064+27	31064+45
Water Line Water Line	Parallel	31064+27	31103+50
UG Utility (Fiber)	Perpendicular	31069+85	
UG Utility (Electric)	Perpendicular	31084+12	
UG Utility (Electric)	Parallel	31084+12	31085+87
UG Utility (Electric)	Perpendicular	31084+22	21000+21
UG Utility (Electric) UG Utility (Electric)	Parallel Perpendicular	31084+33 31084+24	31090+31
UG Utility (Fiber)	Perpendicular Perpendicular	31084+24	
UG Utility (Gas)	Perpendicular	31085+21	
UG Utility (Gas)	Perpendicular	31084+95	
UG Utility (Electric)	Perpendicular	31085+25	
UG Utility (Fiber) Storm Drainage	Perpendicular	31085+27	
Pipe/Culvert	Perpendicular	31085+50	
UG Utility (Gas)	Parallel	31085+68	31090+04
UG Utility (Electric) UG Utility (Electric)	Perpendicular Parallel	31085+87 31085+87	31088+07
<u> </u>			
UG Utility (Electric) UG Utility (Electric)	Parallel Perpendicular	31085+92 31086+21	31154+00
UG Utility (Electric)	Perpendicular Parallel	31086+26	31090+22
UG Utility (Electric)	Parallel	31086+32	31090+31
OH Utility (Electric)	Perpendicular	31087+87	

PACKAGE 3 - CO-LOCATED UTILITIES







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ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT
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THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A
SPECIFIC DESCRIPTION OF THE ALTERATION.

0	04/05/2023	FINAL EM&CP SUBMISSION	JJE	JPR	CHAMPLAIN HUDSON POWER EXPRESS SEGMENTS 4 & 5 (PACKAGE 3) - CP: FORT EDWARD TO MILTON EM&CP DATA TABLES
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	SCALE AS NOTED D
110.	DAIL	SUBMITTAL/ REVISION DESCRIPTION			DRAWN BY: JJE DESIGNED BY: JTM APPROVED BY: JPR REV. NO. X S

GUille (Telephone)			Location (Approximate - See Drawings for Details)			
UCLUBY Class Perpendicular 31088-97 OH Lifting (Electric) Perpendicular 31088-07 OH Lifting (Electric) Perpendicular 31088-10 OH Lifting (Electric) Perpendicular 31088-20 OH Lifting (Electric) Perpendicular 31088-70 Storm Dranage Perpendicular Storm Dranage Perpendicular Storm Dranage Perpendicular Storm Dranage Perpendicular 31102-91 Storm Dranage Perpendicular 31104-60 OH Lifting (Electric) Perpendicular 31104-75 OH Lifting (Electric) Perpendicular 31106-80 OH Lifting (Electric) Perpendicular 31118-50 31129-76 OH Lifting (Electric) Perpendicular 31118-50 31129-76 OH Lifting (Electric) Perpendicular 31118-75 OH Lifting (Electric) Perpendicular 31124-11 OH Lifting (Electric) Perpendicular 31124-15 OH Lifting (Electric) Perpendicular 31124-15 OH Lifting (Electric) Perpendicular 31124-15 OH Lifting (Electric) Perpendicular 31154-85 31154-85 Saniany, Swever Perpendicular 31156-88 OH Lifting (Electric) Perpendicular 31158-90 OH Lifti	Underground (UG)	Perpendicular to the	and Crossing Point for	Station - Ending Point for Parall		
Unit Units	UG Utility (Telephone)	Perpendicular	31087+88			
OH Unlik (Libetic) Perpendecular 31888107 OH Unlik (Deletic) Perpendecular 3188814 OH Unlik (Teletic) Perpendecular 3188820 OH Unlik (Teletic) Perpendecular 3101460 OH Unlik (Teletic) Perpendecular 3102446 OH Unlik (Teletic) Perpendecular 3102446 OH Unlik (Teletic) Perpendecular 310446 OH Unlik (Teletic) Perpendecular 3112438 OH Unlik (Teletic) Perpendecular 3112448 OH Unlik (Teletic) Perpendecular 3112441 OH Unlik (Teletic) Perpendecular 3112441 OH Unlik (Teletic) Perpendecular 3112448 OH Unlik (Teletic) Perpendecular 3112449 OH Unlik (Teletic) Perpendecular 3112440 Perpendecular Silvator Pe		•				
OH Luits (Electric)	• ` '	•				
OH Little (Electric) Perpendealr 31888-20 Warer Line Perpendealr 31888-50 Warer Line Perpendealr 31888-70 Storm Druinge Perpendealr 31888-70 Storm Druinge Perpendealr 3110-161 Storm Druinge Perpendealr 3110-131 PoperCubert 3110-146 OH Lulle (Lectric) Perpendealr 3110-145 OH Lulle (Lectric) Perpendealr 3110-155 Warer Line Perpendealr 3110-168 Warer Line Perpendealr 3110-175 Warer Line Perpendealr 3110-185 UCU Lille (Lectric) Perpendealr 31118-75 OH Unite (Electric) Perpendealr 31121-37 UG Ullu (Electric) Perpendealr 31122-18 De Perpendealr 31122-18 Perpendealr OH Unite (Electric) Perpendealr 31122-19 UG Ullu (Electric) Perpendealr 31122-19 UG Ullu (Electric) Perpendealr 31122-10 UG Ullu (Electric)	OH Utility (Electric)	*	31088+14			
Perpendedar 31888-50 Water Line Perpendedar 31888-70 Storm Drainage Perpendedar 31101-10 Perpendedar 31101-10 Perpendedar 31101-10 Perpendedar 31101-10 Perpendedar 31101-10 Perpendedar 31102-13 Perpendedar 31102-13 Perpendedar 31102-13 Perpendedar 31102-14 Perpendedar 31104-15 Perpendedar 31124-17 Perpendedar 31124-18 Perpendedar	OH Utility (Electric)	Perpendicular	31088+20			
Water Line Perpendicular 31088-70 Storm Drainage Perpendicular 3110-60 Perpendicular 3110-61 Perpendicular 3110-61 Perpendicular 3110-61 Perpendicular 3110-65 Perpendicular 3110-65 Perpendicular 3110-75 Perpendicular Perpendicular 3110-75 Perpendicular 3112-77 Perpendicular 3112-70 Perpendicular 3112-70 Perpendicular 3112-75 Perpendicular 3112-75 Perpendicular 3112-70 Perpendicular 3112-75 Perpendicular 3112-75 Perpendicular 3112-75 Perpendicular 3112-75 Perpendicular 3115-76 Perpendicular 3115-	* ` ′	•	31088+20			
Som Drainage	* ` ` `	^				
PaperCulver Perpendicular Perpendicular Perpendicular Perpendicular Perpendicular Perpendicular Perpendicular Perpendicular Perpendicular 31102-36 Perpendicular 31102-36 Perpendicular 31104-78 Perpendicular 31104-78 Perpendicular 31104-78 Perpendicular 31104-78 Perpendicular 31106-80 Perpendicular 31106-80 Perpendicular 31106-80 Perpendicular 31106-80 Perpendicular 31106-80 Perpendicular 31102-81 Perpendicula		Perpendicular	31088+70			
PeperCubert S1002-51	•	Perpendicular	31101+60			
PopoCulvert Perpendicular 3110 36	Pipe/Culvert	Perpendicular	31102+31			
Water Line	Pipe/Culvert	Perpendicular	31102+46			
Water Line Perpendentar 31104-62 Water Line Perpendentar 31106-80 OH Unity (Electric) Parallel 31118-90 31129-76 OH Unity (Electric) Perpendentar 31118-73 31129-76 UG Unity (Cas) Perpendentar 31124-75 31124-75 Storm Dramage Perpendentar 31124-11 4112-41 OH Unity (Cas) Perpendentar 31124-13 4112-41 OH Unity (Electric) Perpendentar 31124-13 4112-42 UG Unity (Electric) Perpendentar 31124-13 4112-42 UG Unity (Electric) Perpendentar 31126-70 4115-48 UG Unity (Electric) Perpendentar 3115-48 31157-52 Samary Sever Perpendentar 3115-34 4115-48 UG Unity (Electric) Perpendentar 31157-59 4116-48 UG Unity (Electric) Perpendentar 31157-80 31164-58 UG Unity (Electric) Perpendentar 31157-82 31164-58 UG Unity (Electric) Perpendentar	OH Utility (Electric)	Perpendicular	31104+36			
Water Line Perpendicular 3106/880 OH Units (Electric) Parallel 3118845 UG Unity (Electric) Perpendicular 31121/137 Storm Dramage Paper Culvert Perpendicular 31121/137 Off Unity (Electric) Perpendicular 31124/14 UG Unity (Electric) Perpendicular 31124/10 UG Unity (Electric) Perpendicular 3115/1485 UG Unity (Electric) Perpendicular 3115/1485 UG Unity (Electric) Perpendicular 3115/1480 Santary Sewer Perpendicular 3115/1487 Santary Sewer Perpendicular 3115/1490 Santary Sewer Perpendicular 3115/1490 Sa	• ` ` ′					
OH I Inlist (Electric)		•				
UG Units (Electric)		•				
Storm Drainage	* `			31129+76		
Storm Drainage	* ` ` ′	<u> </u>				
Pipe/Culvert	• • • •	Perpendicular	31121+31			
OH Littly (Electric)	J	Perpendicular	31122+88			
UG Utility (Cas)	*	Pernendicular	31124+11			
UG Utility (Electric)	<u> </u>	*				
OH Utility (Electric)	• • •	<u> </u>				
Sanitary Sewer	• • • • • • • • • • • • • • • • • • • •	*				
UG Utility (Electric)	UG Utility (Electric)	Parallel	31154+85	31157+52		
UG Utility (Electric)	Sanitary Sewer	Perpendicular	31155+04			
UG Utility (Electric)	UG Utility (Electric)	•	31156+38			
UG Utility (Electric)	• • • • • • • • • • • • • • • • • • • •	•				
Sanitary Sewer	• • •			31164+58		
UG Utility (Gas)	* ` ` ′					
Sanitary Sewer Perpendicular 31158+03 Water Line Perpendicular 31158+04 Sanitary Sewer Perpendicular 31158+05 OH Utility (Electric) Perpendicular 31158+05 OH Utility (Electric) Perpendicular 31159+04 UG Utility (Gas) Perpendicular 31159+064 UG Utility (Electric) Parallel 31177+08 31184+20 Storm Drainage Perpendicular 31186+00 Pipe/Culvert Parallel 31186+25 31186+75 Storm Drainage Perpendicular 31194+58 Perpendicular Perpendicular 31202+06 Storm Drainage Perpendicular 31202+06 Storm Drainage Perpendicular 31201+82 Storm Drainage Perpendicular 31214+00 Perpendicular 31217+37 UG Utility (Gas) Perpendicular 31218+17 UG Utility (Telephone) Perpendicular 31218+17 UG Utility (Telephone) Perpendicular 31218+12 OH Utility (Electric) Perpendicular 31218+14 UG Utility (Gas) Perpendicular 31218+14 OH Utility (Electric) Perpendicular 31218+14 OH Utility (Electric) Perpendicular 31218+14 UG Utility (Gas) Perpendicular 31218+15 OH Utility (Gas) Perpendicular 31218+16 OH Utility (Gas) Perpendicular 31218+17 UG Utility (Gas) Perpendicular 31218+16 OH Utility (Gas) Perpendicular 31218+17 UG Utility (Gas) Perpendicular 31218+16 OH Utility (Gas) Perpendicular 31218+17 UG Utility (Gas) Perpendicular 31218+18 OH Utility (Gas) Perpendicular 31218+19 UG Utility (Gas) Perpendicular 31221+50 OH Utility (Gas) Perpendicular 31221+50 OH Utility (Gas) Perpendicular 31221+10 Storm Drainage Pipe/Culvert Perpendicular 31227+19 Storm Drainage Pipe/Culvert Perpendicular 31233+53 31233+89 Storm Drainage Pipe/Culvert Perpendicular 31233+53 31233+89		*				
Water Line	* ` '	_				
Sanitary Sewer	•	*				
OH Utility (Electric) Perpendicular 31158-88 Sanitary Sewer Perpendicular 31159-64 UG Utility (Gas) Perpendicular 31160+55 UG Utility (Electric) Parallel 31177-08 31184+20 Storm Drainage Pipe/Culvert Perpendicular 31186+00 31186+00 Storm Drainage Pipe/Culvert Parallel 31186+25 31186+75 Storm Drainage Pipe/Culvert Perpendicular 31194-58 Storm Drainage Pipe/Culvert Perpendicular 31202-06 Storm Drainage Pipe/Culvert Perpendicular 31210-82 Storm Drainage Pipe/Culvert Perpendicular 31214-00 UG Utility (Gas) Perpendicular 31217-37 UG Utility (Gas) Perpendicular 31218-11 UG Utility (Telephone) Perpendicular 31218-17 UG Utility (Telephone) Perpendicular 31218-17 UG Utility (Telephone) Parallel 31218-42 OH Utility (Telephone) Perpendicular 31218-42 OH Utility (Gas) Perpendicular 31218-42		•				
Sanitary Sewer Perpendicular 31159+64 UG Utility (Cas) Perpendicular 31160+55 UG Utility (Electric) Parallel 31177+08 31184+20	•	*				
UG Utility (Electric)	• • • • • • • • • • • • • • • • • • • •		31159+64			
Storm Drainage	UG Utility (Gas)	Perpendicular	31160+55			
Storm Drainage Pipe/Culvert Perpendicular Storm Drainage Pipe/Culvert Storm Drainage Pipe/Culvert Storm Drainage Pipe/Culvert UG Utility (Gas) Perpendicular UG Utility (Gas) Perpendicular UG Utility (Telephone) Perpendicular UG Utility (Telephone) Perpendicular UG Utility (Telephone) Perpendicular UG Utility (Telephone) Parallel UG Utility (Electric) Parallel UG Utility (Electric) Perpendicular UG Utility (Gas) Perpendi	UG Utility (Electric)	Parallel	31177+08	31184+20		
Pipe/Culvert Storm Drainage Pipe/Culvert Storm Drainage Pipe/Culvert Storm Drainage Pipe/Culvert Storm Drainage Pipe/Culvert Storm Drainage Pipe/Culvert Storm Drainage Pipe/Culvert Storm Drainage Pipe/Culvert Storm Drainage Pipe/Culvert Storm Drainage Pipe/Culvert Storm Drainage Pipe/Culvert UG Utility (Gas) Perpendicular UG Utility (Talasmission) Perpendicular UG Utility (Telephone) Perpendicular UG Utility (Telephone) Perpendicular UG Utility (Telephone) Parallel Storm Drainage Perpendicular UG Utility (Electric) Perpendicular UG Utility (Electric) Perpendicular Storm Drainage Pipe/Culvert Parallel 31233+53 31233+89 Parallel 31233+89	•	Perpendicular	31186+00			
Perpendicular Storm Drainage Pipe/Culvert UG Utility (Gas) Perpendicular UG Utility (Gas) Perpendicular UG Utility (Telephone) OH Utility (Telephone) OH Utility (Telephone) OH Utility (Electric) OH Utility (Electric) OH Utility (Gas) Perpendicular UG Utility (Gas) Perpendicular 31218+17 UG Utility (Telephone) OH Utility (Electric) OH Utility (Electric) Parallel 31218+43 31221+50 UG Utility (Gas) Perpendicular 31220+35 Storm Drainage Pipe/Culvert Parallel 3123+53 31233+89	Pipe/Culvert	Parallel	31186+25	31186+75		
Storm Drainage	•	Perpendicular	31194+58			
Pipe/Culvert Storm Drainage Pipe/Culvert Storm Drainage Pipe/Culvert Storm Drainage Pipe/Culvert Perpendicular Perpendicular 31210+82 31210+82 Storm Drainage Pipe/Culvert Perpendicular Jug Utility (Gas) Perpendicular UG Utility (Telephone) Perpendicular UG Utility (Telephone) Perpendicular UG Utility (Telephone) Perpendicular Jug Utility (Telephone) Perpendicular Jug Utility (Telephone) Perpendicular Jug Utility (Electric) Perpendicular OH Utility (Electric) Perpendicular OH Utility (Electric) Perpendicular Jug Utility (Gas) Jug Utility (Gas) Perpendicular Jug Utility (Gas) Jug Utility (Tatamanism) Jug Uti		-				
Perpendicular Storm Drainage Pipe/Culvert UG Utility (Gas) Perpendicular UG Utility (Gas) Perpendicular UG Utility (Gas) Perpendicular UG Utility (Telephone) Perpendicular UG Utility (Transmission) Perpendicular UG Utility (Telephone) Parallel UG Utility (Telephone) Parallel UG Utility (Electric) Perpendicular UG Utility (Electric) Perpendicular UG Utility (Electric) Parallel UG Utility (Gas) Perpendicular UG Utility (Gas) UG Utili	Pipe/Culvert	-				
Pipe/Culvert UG Utility (Gas) Perpendicular UG Utility (Gas) Perpendicular UG Utility (Telephone) Parallel 31218+17 UG Utility (Telephone) Parallel 31218+25 31222+50 OH Utility (Electric) Perpendicular 31218+42 OH Utility (Electric) Parallel 31218+43 31221+50 UG Utility (Gas) Perpendicular UG Utility (Gas) Perpendicular 31219+94 UG Utility (Gas) Perpendicular 31220+35 Storm Drainage Pipe/Culvert Perpendicular Perpendicular 31227+19 Parallel 31233+53 31233+89	Pipe/Culvert	•				
UG Utility (Gas) Perpendicular 31217+37 UG Utility (Gas) Perpendicular 31218+11 UG Utility (Telephone) Perpendicular 31218+11 OH Utility (Telephone) Perpendicular 31218+17 UG Utility (Telephone) Parallel 31218+25 31222+50 OH Utility (Electric) Perpendicular 31218+42 OH Utility (Electric) Parallel 31218+43 31221+50 UG Utility (Gas) Perpendicular 31219+94 UG Utility (Gas) Perpendicular 31220+35 Storm Drainage Pipe/Culvert Perpendicular 31221+03 Storm Drainage Pipe/Culvert Perpendicular 31227+19 Storm Drainage Pipe/Culvert Perpendicular 31233+53 31233+89 Storm Drainage Pipe/Culvert Parallel 31233+53 31233+89	•	Perpendicular	31214+00			
UG Utility (Telephone) Perpendicular 31218+11 OH Utility (Transmission) Perpendicular 31218+17 UG Utility (Telephone) Parallel 31218+25 31222+50 OH Utility (Electric) Perpendicular 31218+42 OH Utility (Electric) Parallel 31218+43 31221+50 UG Utility (Gas) Perpendicular 31219+94 UG Utility (Gas) Perpendicular 31220+35 Storm Drainage Pipe/Culvert Perpendicular 31221+03 Storm Drainage Pipe/Culvert Perpendicular 31226+07 Storm Drainage Pipe/Culvert Perpendicular 31227+19 Storm Drainage Pipe/Culvert Parallel 31233+53 31233+89 Storm Drainage Pipe/Culvert Parallel 31233+53 31233+89		Perpendicular	31217+37			
OH Utility (Transmission) UG Utility (Telephone) Parallel 31218+25 31222+50 OH Utility (Electric) OH Utility (Electric) OH Utility (Electric) Parallel 31218+42 OH Utility (Gas) Perpendicular UG Utility (Gas) Perpendicular UG Utility (Gas) Perpendicular 31219+94 UG Utility (Gas) Perpendicular Storm Drainage Pipe/Culvert Storm Drainage	UG Utility (Gas)	*				
UG Utility (Telephone) Parallel 31218+25 31222+50 OH Utility (Electric) Perpendicular 31218+42 OH Utility (Electric) Parallel 31218+43 31221+50 UG Utility (Gas) Perpendicular UG Utility (Gas) Perpendicular UG Utility (Gas) Perpendicular 31220+35 Storm Drainage Pipe/Culvert Storm Drainage Pipe/Culvert Storm Drainage Pipe/Culvert Perpendicular Perpendicular 31226+07 Perpendicular 31227+19 Storm Drainage Pipe/Culvert Parallel 31233+53 31233+89	• • • • • • • • • • • • • • • • • • • •	<u> </u>				
OH Utility (Electric) Perpendicular OH Utility (Electric) Parallel 31218+43 31221+50 UG Utility (Gas) Perpendicular UG Utility (Gas) Perpendicular Perpendicular Storm Drainage Pipe/Culvert Parallel 31233+53 31233+89	-	•				
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Storm Drainage	Storm Drainage	•	31233+53	31233+89		
Pipe/Culvert Perpendicular 31236+05	Storm Drainage	Perpendicular	31236+05			

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		Location (Approximate - See Drawings for Details)			
Utility Type Underground (UG) Overhead (OH)	Parallel or Perpendicular to the Alignment	Station - Starting Point for Parallel and Crossing Point for Perpendicular	Station - Ending Point for Paralle		
Storm Drainage Pipe/Culvert	Parallel	31240+00	31240+72		
Storm Drainage Pipe/Culvert	Perpendicular	31252+37			
Storm Drainage Pipe/Culvert	Perpendicular	31259+36			
Storm Drainage Pipe/Culvert	Perpendicular	31265+09			
Storm Drainage Pipe/Culvert	Perpendicular	31270+98			
OH Utility (Electric)	Perpendicular	31283+89			
OHIDE OF CO	Perpendicular	31284+35			
OH Utility (Electric)	Perpendicular Parallal	31286+76	21207±00		
UG Utility (Electric) UG Utility (Gas)	Parallel Parallel	31287+89 31288+57	31297+09 31295+34		
UG Utility (Electric)	Perpendicular	31292+47	31293⊤34		
UG Utility (Electric)	Perpendicular	31292+55			
UG Utility (Electric)	Perpendicular	31292+92			
UG Utility (Gas)	Perpendicular	31292+93			
Storm Drainage Pipe/Culvert	Parallel	31293+32	31293+60		
UG Utility (Gas)	Perpendicular	31293+10			
Storm Drainage Pipe/Culvert	Perpendicular	31294+77			
Storm Drainage Pipe/Culvert	Parallel	31312+39	31313+03		
OH Utility (Electric)	Perpendicular	31312+47			
Storm Drainage Pipe/Culvert	Perpendicular	31312+52			
Water Line	Perpendicular	31312+67			
UG Utility (Gas)	Perpendicular Perpendicular	31312+91 31312+94			
OH Utility (Electric) OH Utility (Electric)	Perpendicular Perpendicular	31312+94 31313+52			
Storm Drainage Pipe/Culvert	Perpendicular	31313+32			
UG Utility (Gas)	Parallel	31319+87	31323+30		
OH Utility (Electric) Storm Drainage	Perpendicular	31323+07	31323 - 30		
Pipe/Culvert Sanitary Sewer	Perpendicular Perpendicular	31327+30 31344+28			
UG Utility (Fiber)	Perpendicular	31348+50			
UG Utility (Fiber)	Perpendicular	31350+70			
Storm Drainage Pipe/Culvert	Perpendicular	31354+29			
Storm Drainage Pipe/Culvert	Perpendicular	31355+72			
Water Line	Perpendicular	31355+76			
OH Utility (Telephone)	Perpendicular	31358+45			
Storm Drainage Pipe/Culvert	Parallel	31355+85	31356+82		
OH Utility (Electric)	Perpendicular	31356+66			
UG Utility (Fiber) Storm Drainage	Perpendicular Perpendicular	31356+67 31363+97			
Pipe/Culvert	•				
UG Utility (Fiber) UG Utility (Fiber)	Perpendicular Perpendicular	31372+00 31374+00			
UG Utility (Fiber) UG Utility (Gas)	Perpendicular Perpendicular	31374+00			
OH Utility (Electric)	Perpendicular	31390+33			
Storm Sewer	Perpendicular	31391+80			
OH Utility (Telephone)	Perpendicular	31392+25			
UG Utility (Electric)	Perpendicular	310085+50			

PACKAGE 3 - CO-LOCATED UTILITIES





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	21162
	SEGMENTS 4 & 5 (PACKAGE 3) - CP: FORT EDWARD TO MILTON	CHA PROJECT NO.
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DB APP DRAWN BY: JJE DESIGNED BY: JTM APPROVED BY: JPR REV. NO.

JJE JPR

04/05/2023 FINAL EM&CP SUBMISSION

DATE SUBMITTAL / REVISION DESCRIPTION

G-019

CLEANUP STANDARDS AND PRACTICES

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

RESTORATION AND PLANTING

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

SITE PREPARATION FOR REVEGETATION

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

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

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

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

SEEDING AND PLANTING

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

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

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

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

RESTORATION OF WATERBODIES

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

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

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

RESTORATION OF WETLANDS

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

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 COMPLETION OF PLANTING TO ENSURE PROPER PLANTING PROCEDURES AND THE CORRECT PLANT SPECIES WERE USED. ADDITIONALLY, THE ENVIRONMENTAL INSPECTOR WILL CONDUCT A FINAL INSPECTION OF ALL REVEGETATED AREAS AFTER THE END OF THE MONITORING PERIOD TO ENSURE FINAL STABILIZATION. ALL VEGETATION REPLACED WILL HAVE A MINIMUM TWO (2) YEAR SURVIVAL GUARANTEE. AS DESCRIBED IN THE BMP DOCUMENT, WHERE TREE OR SHRUB PLANTINGS ARE NEEDED, A POST CONSTRUCTION SURVIVAL SURVEY WILL BE PERFORMED ONE YEAR AFTER THE PLANTINGS. IF ANY TREE OR SHRUB HAS NOT SURVIVED OR IS IN POOR HEALTH, THE TREE/SHRUB WILL BE REPLACED.

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

RESTORATION WITHIN NYSDOT ROW

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

RESTORATION OF RECREATIONAL AREAS

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

ROADWAY RESTORATION (STRIPING, SIGNAGE, AUDIBLE ROADWAY DELINEATORS)

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

RESTORATION OF ROADWAY

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

RESTORATION OF ROADWAY SHOULDER

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

PAVEMENT RESTORATION

AS DESCRIBED IN THE BMP DOCUMENT AND CERTIFICATE CONDITIONS, CURBS, SIDEWALKS, AND STREETS DAMAGED BY CONSTRUCTION WILL BE RESTORED TO PRE-EXISTING CONDITION OR BETTER. FURTHER, DISTURBED AREAS, RUTS, AND RILLS ALONG ROADWAYS SHALL BE RESTORED TO ORIGINAL GRADES AND CONDITIONS WITH PERMANENT REVEGETATION AND EROSION AND CONTROLS APPROPRIATE FOR THOSE LOCATIONS, AS APPROPRIATE.

THE CERTIFICATE HOLDERS WILL CONSULT THE MUNICIPAL OR HIGHWAY DEPARTMENT AND OR REGIONAL OFFICE OR COUNTY ENGINEER OF THE NYSDOT IN ORDER TO IDENTIFY AND INCORPORATE APPROPRIATE SPECIFICATIONS FOR CURB, SIDEWALK, OR STREET RESTORATION. ALL SURFACE RESTORATION WILL FOLLOW THE SPECIFICATIONS PROVIDED IN THE PLAN AND PROFILE DRAWINGS. GUIDE RAILS WILL BE REMOVED AND REPLACE IN ACCORDANCE WITH NYSDOT STANDARD SHEET 606.01.

RESTORATION OF RAILWAY BALLAST

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

SEED MIXES

- A. GENERAL SEED:
- 1. PIPELINE MIX 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)
- 1. MIX COMPOSITION
- 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.
- 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.







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

0 04/05/2023 FINAL EM&CP SUBMISSION JJE JPR
No. DATE SUBMITTAL / REVISION DESCRIPTION DB APP

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENTS 4 & 5 (PACKAGE 3) - CP: FORT EDWARD TO MILTON
RESTORATION NOTES

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

G-020

04/05/2023

SION DESCRIPTION

DB APP DRAWN BY: JJE DESIGNED BY: JTM APPROVED BY: JPR REV. NO. X SH.NO.

