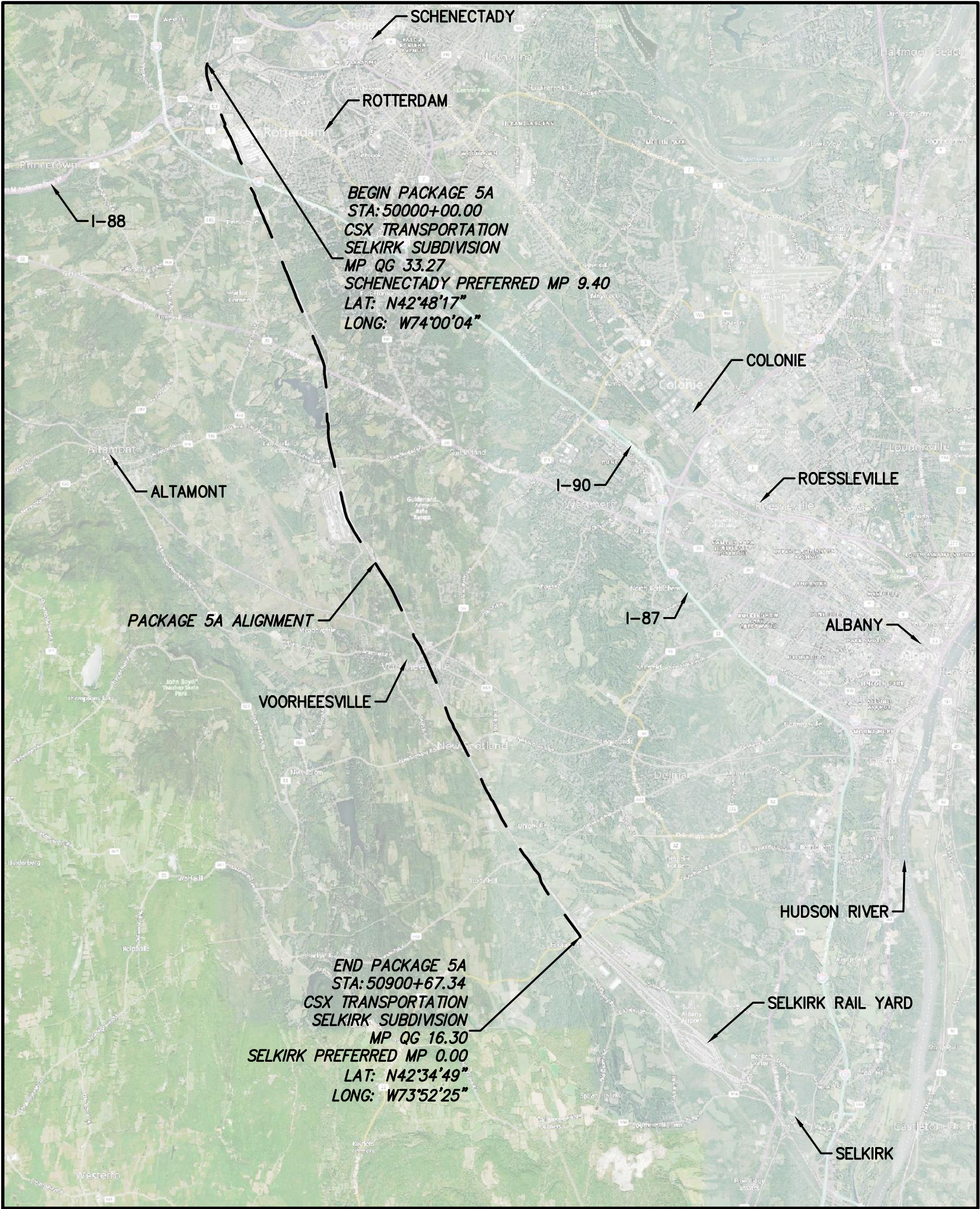


# CHAMPLAIN HUDSON POWER EXPRESS

SEGMENT 8 (PACKAGE 5A) CSX: ROTTERDAM TO BETHLEHEM

SCHENECTADY & ALBANY COUNTY, NEW YORK

ISSUED FOR CONSTRUCTION SUBMISSION PLANS



SITE LOCATION MAP  
SCALE: 1" = 10000'



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	06/09/2023	ISSUED FOR CONSTRUCTION SUBMISSION				BV	TK		
No.	DATE	SUBMITTAL / REVISION DESCRIPTION				DB	APP		

CHAMPLAIN HUDSON POWER EXPRESS  
SEGMENT 8 (PACKAGE 5A) - CSX: ROTTERDAM - BETHLEHEM  
COVER SHEET

KIEWIT PROJECT NO.	21162
DRAWING NO.	<b>G-000</b>
DATE	06/09/2023
SH.NO.	1 OF 1

DRAWN BY:	AR	DESIGNED BY:	BV	APPROVED BY:	TK	SCALE	AS SHOWN	DATE	06/09/2023
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CIVIL NOTES:

1. THE CIVIL ENGINEER OF RECORD (EOR) LICENSED PROFESSIONAL ENGINEER SEAL AND SIGNATURE ON THE PLAN AND PROFILE KEY MAP SHEET, SPLICE LOCATION TABLE SHEET, PLAN AND PROFILE SHEETS, TEMP OFF-SITE ACCESS ROADS SHEETS, AND TEMP OFF-SITE ACCESS ROUTES SHEETS IS LIMITED TO THE SCOPE OF DESIGN AS OUTLINED BELOW:
- A. THE CIVIL EOR DESIGN SCOPE INCLUDES THE FOLLOWING:

a. HORIZONTAL AND VERTICAL GEOMETRY OF THE TRENCH AND CONDUITS

b. GEOMETRIC DESIGN OF TEMPORARY ROADS AND WORK AREAS

1. THESE PLANS DEPICT THE GENERAL LAYOUT AND GRADING EXTENTS OF THE ROADS AND WORK AREAS. GEOMETRIC INFORMATION FOR TEMPORARY ROADS AND WORK AREAS IS NOT SHOWN IN THESE PLANS AND WILL BE AVAILABLE UPON REQUEST IN EXCEL OR CIVIL 3D 2020 DIGITAL FORMAT.
2. THE CIVIL EOR IS NOT RESPONSIBLE FOR THE ELECTRICAL DESIGN DEPICTED IN THESE PLANS.
- A. THE CERTIFICATE HOLDER (CHPE LLC) IS RESPONSIBLE FOR THE FOLLOWING ELECTRICAL DESIGN DEPICTED ON THESE PLANS INCLUDING THE FOLLOWING:

a. DESIGN ASSOCIATED WITH THE ELECTRICAL TRANSMISSION LINE AND APPURTENANCES INCLUDING BUT NOT LIMITED TO PUBLIC SAFETY CONSIDERATIONS AND RISK ASSESSMENT(S); MATERIAL SELECTION; AND INTERFERENCE, THERMAL, AND STRAY CURRENT EFFECTS.

b. DESIGN OF THE HVDC (HIGH VOLTAGE DIRECT CURRENT) CABLE, FIBER OPTIC CABLE, SPLICE CONNECTIONS, AND CABLE POLARITY

c. CONDUIT SPACING (SEPARATION BETWEEN THE CABLES AND CONDUITS, AND OTHER CLEARANCE REQUIREMENTS FOR THE CABLE OR CONDUIT); DETERMINING MINIMUM OR MAXIMUM DEPTH OF COVER FOR THE CONDUITS OR CABLE; AND MATERIAL SELECTION OF TRENCH BACKFILL OR CONDUIT
- B. THE CIVIL EOR IS ADDITIONALLY NOT RESPONSIBLE FOR THE FOLLOWING DESIGN:

a. CABLE PULLING FORCE CALCULATIONS OR INSTALLATION OF CABLES INCLUDING CABLE PULLING DIRECTION

b. VERIFYING ACTUAL (3-DIMENSIONAL) CABLE LENGTHS FOR PURPOSES OF ORDERING MATERIALS

c. ANY RISK ASSESSMENTS RELATED TO THE ELECTRICAL DESIGN INCLUDING THOSE NOTED IN THE CERTIFICATE HOLDER (CHPE LLC) RESPONSIBILITIES ABOVE.
3. THE MAJORITY OF STORM WATER MANAGEMENT AND EROSION & SEDIMENT CONTROL DESIGN IS INCLUDED IN THE EROSION AND SEDIMENT CONTROL PLANS AND DETAILS; THE REMAINDER IS INCLUDED IN THE TEMP OFF-SITE ACCESS ROAD PLANS AND WILL BE SEALED BY BOTH THE CIVIL AND DRAINAGE EOR. THE CIVIL EOR DESIGN SCOPE IS DEFINED IN NOTES 1 AND 2 ABOVE; THE DRAINAGE EOR IS RESPONSIBLE FOR STORM WATER MANAGEMENT AND EROSION & SEDIMENT CONTROL DESIGN INCLUDED IN THE TEMP OFF-SITE ACCESS ROAD PLANS.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THE MINIMUM ALLOWABLE BENDING RADIUS OF THE CONDUITS MEETS THE MANUFACTURER'S REQUIREMENTS.
5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IMPLEMENT SAFETY MEASURES AND/OR AN OPERATIONAL SAFETY PLAN DURING CONSTRUCTION TO PROTECT PERSONNEL AND VEHICLES FROM STEEP SLOPES OR HAZARDS ADJACENT TO ROADS AND WORK AREAS. THIS DESIGN PROVIDES TEMPORARY ACCESS AND WORK AREAS FOR CONSTRUCTION OPERATIONS FOR LOW-SPEED CONSTRUCTION TRAFFIC WITHIN A SITE THAT IS RESTRICTED FROM PUBLIC ACCESS.
- A. THESE PLANS DO NOT INCLUDE COMPREHENSIVE ROADSIDE SAFETY MEASURES OR HARDWARE, INCLUDING BUT NOT LIMITED TO: BARRIERS, GUARDRAIL, SIGNING, GATES, DELINEATORS, AND SAFETY BERMS.
- B. ACCESS ROADS ARE DESIGNED FOR A DESIGN SPEED OF 15 MPH FOR CRUSHED ROCK SURFACING (GRAVEL/AGGREGATE SURFACING). IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE VEHICLES ARE ADEQUATELY EQUIPPED FOR ROAD CONDITIONS, AND ROADS ARE ADEQUATELY MAINTAINED FOR SAFETY.
- C. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE STABILITY OF AND/OR SETBACKS FROM STEEP SLOPES, SHORING, AND WALLS ADJACENT TO VEHICULAR TRAFFIC OR NEAR PLACEMENT OF CONSTRUCTION EQUIPMENT (OR MATERIALS) AS DETERMINED BY A GEOTECHNICAL ENGINEER.
6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM EXISTING STRUCTURES, PIPES, ROADS, ROUTES, OR OTHER PAVED AREAS ARE ADEQUATE FOR CONSTRUCTION TRAFFIC AND VEHICLE LOADING.
7. AS DESCRIBED IN THE EM&CP DOCUMENTS, THE DESIGN HEREIN IS BASED ON GRADES BEING RESTORED TO PRE-CONSTRUCTION CONDITIONS AFTER CONSTRUCTION HAS BEEN COMPLETED.

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.
2. THE CONTRACTOR SHALL TRAIN 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.
5. A NATIONAL GRID GAS REPRESENTATIVE SHALL BE ON SITE WHILE CONSTRUCTION ACTIVITIES OCCUR NEAR NATIONAL GRID GAS PIPELINE CROSSINGS.
6. THE CONTRACTOR SHALL EXPOSE NATIONAL GRID PIPELINES COMPLETELY (360-DEGREE VIEW OF THE PIPELINE) AT EACH CROSSING LOCATION AND LEAVE THE PIPELINE EXPOSED WHILE ANY HDD PASSES BELOW NATIONAL GRID'S PIPELINE.



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CHAMPLAIN HUDSON POWER EXPRESS SEGMENT 8 (PACKAGE 5A) - CSX: ROTTERDAM - BETHLEHEM  GENERAL NOTES 2 OF 2				KIEWIT PROJECT NO. 21162	
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CSX GENERAL NOTES:

1. AUTHORITY OF CSX ENGINEER:
- 1.a. THE CSX REPRESENTATIVE SHALL HAVE FINAL AUTHORITY IN ALL MATTERS AFFECTING THE SAFE MAINTENANCE OF CSX OPERATIONS AND CSX PROPERTY, AND HIS OR HER APPROVAL SHALL BE OBTAINED BY THE CHPE LLC OR ITS CONTRACTOR FOR METHODS OF CONSTRUCTION TO AVOID INTERFERENCE WITH CSX OPERATIONS IN CSX PROPERTY AND ALL OTHER MATTERS CONTEMPLATED BY THE AGREEMENT AND THESE SPECIAL PROVISIONS.
2. INTERFERENCE WITH CSX OPERATION
- 2.a. CHPE LLC OR ITS CONTRACTOR SHALL ARRANGE AND CONDUCT ITS WORK SO THAT THERE WILL BE NO INTERFERENCE WITH CSX OPERATIONS, INCLUDING, BUT NOT LIMITED TO: TRAIN, SIGNAL, TELEPHONE AND TELEGRAPHIC SERVICES, OR DAMAGE TO CSX'S PROPERTY, OR TO POLES, WIRES, AND OTHER FACILITIES OF TENANTS ON CSX'S PROPERTY OR RIGHT-OF-WAY. CHPE LLC OR ITS CONTRACTOR SHALL STORE MATERIALS SO AS TO PREVENT TRESPASSERS FROM CAUSING DAMAGE TO TRAINS, OR CSX PROPERTY. WHENEVER WORK IS LIKELY TO AFFECT THE OPERATIONS OR SAFETY OF TRAINS, AN APPROVAL OF THE METHOD OF WORK BY CSXT OR ITS REPRESENTATIVE SHALL NOT RELIEVE CHPE LLC OR ITS CONTRACTOR FROM LIABILITY IN CONNECTION WITH SUCH WORK.
- 2.b. IF CONDITIONS ARISING FROM OR IN CONNECTION WITH THE PROJECT REQUIRE THAT IMMEDIATE AND UNUSUAL PROVISIONS BE MADE TO PROTECT TRAIN OPERATIONS OR CSX'S PROPERTY, CHPE LLC OR ITS CONTRACTOR SHALL MAKE SUCH PROVISION IN COORDINATION WITH CSXT OR ITS REPRESENTATIVE. IF THE CSX REPRESENTATIVE DETERMINES THAT SUCH PROVISIONS IS INSUFFICIENT, CSX MAY, AT THE EXPENSE OF CHPE LLC OR ITS CONTRACTOR, REQUIRE OR PROVIDE SUCH PROVISION AS MAY BE DEEMED NECESSARY, OR CAUSE THE WORK TO CEASE IMMEDIATELY.
- 2.c. SHOULD WORK ACTIVITIES BE REQUIRED WITHIN CSX PROPERTY OR RIGHT-OF-WAY, THE CONTRACTOR SHALL REQUEST CSX TO LOCATE ANY BURIED UTILITIES OR FACILITIES (AIR LINES, WELLS, ETC.). A WRITTEN REQUEST SHALL BE DELIVERED TO THE CSX REPRESENTATIVE AT LEAST FIVE (5) DAYS IN ADVANCE. THE TRADITIONAL "ONE CALL" UTILITY LOCATE SERVICES ARE NOT RESPONSIBLE FOR LOCATING ANY CSX UNDERGRADE UTILITIES OR FACILITIES. IT IS THE RESPONSIBILITY OF THE CHPE LLC OR ITS CONTRACTOR TO COORDINATE WITH CSXT OR ITS REPRESENTATIVE TO LOCATE ANY UNDERGRADE CSXT UTILITIES OR FACILITIES. "DIG SAFE" PROCEDURES ARE TO BE FOLLOWED CONSISTENT WITH THE EM&CP NARRATIVE REPORT IN ADDITION TO THE ABOVE CSX UTILITY REQUIREMENTS.
3. INSURANCE:
- THE CONTRACTOR SHALL NOT BE PERMITTED TO WORK ON, OR HAVE POTENTIAL TO FOUL, CSX PROPERTY OR RIGHT-OF-WAY UNTIL IT HAS COMPLIED WITH THE FOLLOWING CONDITIONS:
- 3.a. NOTIFY CSX IN WRITING OF THE DATE THAT IT INTENDS TO COMMENCE WORK ON THE PROJECT. SUCH NOTICE MUST BE RECEIVED BY CSX AT LEAST TEN (10) BUSINESS DAYS IN ADVANCE OF THE DATE CHPE LLC OR ITS CONTRACTOR PROPOSES TO BEGIN WORK ON CSX PROPERTY. THE NOTICE MUST REFER TO THIS AGREEMENT BY DATE. IF FLAGGING SERVICE IS REQUIRED, SUCH NOTICE SHALL BE SUBMITTED AT LEAST THIRTY (30) BUSINESS DAYS IN ADVANCE OF THE DATE SCHEDULED TO COMMENCE THE WORK.
- 3.b. OBTAIN AUTHORIZATION FROM THE CSX REPRESENTATIVE TO BEGIN WORK ON CSX PROPERTY. ONCE AUTHORIZATION IS GIVEN, CHPE LLC OR CONTRACTOR SHALL PROVIDE A DETAILED SCHEDULE TO INCLUDE MEANS AND METHODS FOR REVIEW, COMMENT AND/OR APPROVAL PRIOR TO COMMENCEMENT OF WORK. CSX WILL IN TURN PROVIDE DIRECTION REGARDING SPECIFIC CONDITIONS WITH WHICH IT MUST COMPLY.
- 3.c. OBTAIN FROM CSX THE NAMES, ADDRESSES AND TELEPHONE NUMBERS OF CSX'S PERSONNEL WHO MUST RECEIVE NOTICE UNDER PROVISIONS IN THE AGREEMENT. WHERE MORE THAN ONE INDIVIDUAL IS DESIGNATED, THE AREA OF RESPONSIBILITY OF EACH SHALL BE SPECIFIED.
4. WORK FOR THE BENEFIT OF THE CONTRACTOR:
- 4.a. UNLESS OTHERWISE AGREED UPON, CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COSTS AND PERMIT REQUIREMENTS FOR RELOCATION OR MODIFICATION OF EXISTING THIRD PARTY FACILITIES AND MAY REQUIRE AN EM&CP CHANGE.
- 4.b. SHOULD CHPE LLC OR CONTRACTOR DESIRE ANY CHANGES IN ADDITION TO THE ABOVE, THEN IT SHALL MAKE SEPARATE ARRANGEMENTS WITH CSX FOR SUCH CHANGES TO BE ACCOMPLISHED AT THE CHPE LLC OR CONTRACTOR'S EXPENSE.
5. HAUL ACROSS RAILROAD:
- 5.a. IF CHPE LLC OR CONTRACTOR DESIRES ACCESS ACROSS CSX PROPERTY OR TRACKS AT OTHER THAN AN EXISTING AND OPEN PUBLIC ROAD CROSSING IN OR INCIDENT TO CONSTRUCTION OF THE PROJECT, THE CHPE LLC OR CONTRACTOR MUST FIRST OBTAIN THE PERMISSION OF CSX AND SHALL EXECUTE AN AGREEMENT, WHEREIN CHPE LLC OR CONTRACTOR AGREES TO BEAR ALL COSTS AND LIABILITIES RELATED TO SUCH ACCESS.
- 5.b. TEMPORARY CONSTRUCTION HAUL ROADS ACROSS CSX TRACKS WILL REQUIRE A SEPARATE APPLICATION AND PAYMENT TO CSX PROPERTY SERVICES. AGREEMENT EXTENSIONS REQUIRE ADDITIONAL PAYMENT. ACTUAL COST IS VARIABLE AND PROJECT SPECIFIC.
- 5.c. CHPE LLC AND CONTRACTOR SHALL NOT CROSS CSX'S PROPERTY AND TRACKS WITH VEHICLES OR EQUIPMENT OF ANY KIND OR CHARACTER, EXCEPT AT SUCH CROSSING OR CROSSINGS AS MAY BE PERMITTED PURSUANT TO THIS SECTION.
6. COOPERATION AND DELAYS
- 6.a. CHPE LLC OR CONTRACTOR SHALL ARRANGE A SCHEDULE WITH CSX FOR ACCOMPLISHING STAGE CONSTRUCTION INVOLVING WORK BY CSX, IN ARRANGING ITS SCHEDULE, CHPE LLC OR CONTRACTOR SHALL ASCERTAIN, FROM CSX, THE LEAD TIME REQUIRED FOR ASSEMBLING CREWS AND MATERIALS AND SHALL MAKE DUE ALLOWANCE THEREFORE.
- 6.b. CHPE LLC OR CONTRACTOR MAY NOT CHARGE ANY COSTS OR SUBMIT ANY CLAIMS AGAINST CSX FOR HINDRANCE OR DELAY CAUSE BY RAILROAD TRAFFIC; WORK DONE BY CSX OR OTHER DELAY INCIDENT TO OR NECESSARY FOR SAFE MAINTENANCE OF RAILROAD TRAFFIC; OR FOR ANY DELAYS DUE TO COMPLIANCE WITH THESE SPECIAL PROVISIONS.
- 6.c. CHPE LLC AND CONTRACTOR SHALL COOPERATE WITH OTHERS PARTICIPATING IN THE CONSTRUCTION OF THE PROJECT TO THE END THAT ALL WORK MAY BE CARRIED ON TO THE BEST ADVANTAGE.
- 6.d. CHPE LLC AND CONTRACTOR UNDERSTAND AND AGREE THAT CSX DOES NOT ASSUME ANY RESPONSIBILITY FOR WORK PERFORMED BY OTHERS IN CONNECTION WITH THE PROJECT. CHPE LLC AND CONTRACTOR FURTHER UNDERSTAND AND AGREE THAT THEY SHALL HAVE NO CLAIM WHATSOEVER AGAINST CSX FOR ANY INCONVENIENCE, DELAY OR ADDITIONAL COST INCURRED BY CHPE LLC OR CONTRACTOR ON ACCOUNT OF OPERATIONS BY OTHERS.

7. STORAGE OF MATERIALS AND EQUIPMENT:

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

8. CONSTRUCTION PROCEDURES

GENERAL

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

BLASTING

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

9. CSX REPRESENTATIVE WILL

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

11. MAINTENANCE OF DITCHES ADJACENT TO CSX TRACKS

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

12. TRACK PROTECTION / INSPECTION SERVICE

- 12.a. CSX HAS SOLE AUTHORITY TO DETERMINE THE NEED FOR TRACK PROTECTION REQUIRED TO PROTECT ITS OPERATIONS AND PROPERTY. IN GENERAL, TRACK PROTECTION WILL BE REQUIRED WHENEVER CHPE LLC OR CONTRACTOR OR THEIR EQUIPMENT ARE, OR ARE LIKELY TO BE, WORKING WITHIN FIFTY (50) FEET OF LIVE TRACK OR OTHER TRACK CLEARANCES SPECIFIED BY CSX, OR OVER TRACKS.
- 12.b. CHPE LLC SHALL REIMBURSE CSX DIRECTLY FOR ALL COSTS OF TRACK PROTECTION THAT IS REQUIRED ON ACCOUNT OF CONSTRUCTION WITHIN CSX PROPERTY SHOWN IN THE PLANS, OR THAT IS COVERED BY AN APPROVED PLAN REVISION, SUPPLEMENTAL AGREEMENT OR CHANGE ORDER.
- 12.c. CHPE LLC OR CONTRACTOR SHALL GIVE A MINIMUM OF THIRTY (30) DAYS' ADVANCE NOTICE TO CSX REPRESENTATIVE FOR ANTICIPATED NEED FOR TRACK PROTECTION. NO WORK SHALL BE UNDERTAKEN UNTIL THE FLAG PERSON(S) IS/ARE AT THE JOB SITE. IF IT IS NECESSARY FOR CSX TO ADVERTISE A FLAGGING JOB FOR BID, IT MAY TAKE UP TO NINETY (90) DAYS TO OBTAIN THIS SERVICE AND CSX SHALL NOT BE LIABLE FOR THE COST OF DELAYS ATTRIBUTED TO OBTAINING SUCH SERVICE.
- 12.d. CSX SHALL HAVE THE RIGHT TO ASSIGN AN INDIVIDUAL TO THE SITE OF THE PROJECT TO PERFORM INSPECTION SERVICE WHENEVER, IN THE OPINION OF CSX REPRESENTATIVE, SUCH INSPECTION MAY BE NECESSARY. CHPE LLC SHALL REIMBURSE CSX FOR THE COSTS INCURRED BY CSX FOR SUCH INSPECTION SERVICE. INSPECTION SERVICE SHALL NOT RELIEVE CHPE LLC OR CONTRACTOR FROM LIABILITY.
- 12.e. CSX SHALL RENDER INVOICES FOR, AND CHPE LLC SHALL PAY FOR, THE ACTUAL PAY RATE OF THE FLAG PERSON(S) AND INSPECTORS USED, PLUS STANDARD ADDITIVES, WHETHER THAT AMOUNT IS ABOVE OR BELOW THE RATE PROVIDED IN THE ESTIMATE. IF THE RATE OF PAY THAT IS TO BE USED FOR INSPECTOR OR FLAGGING SERVICE IS CHANGED BEFORE THE WORK IS STARTED OR DURING THE PROGRESS OF THE WORK, WHETHER BY LAW OR AGREEMENT BETWEEN CSX AND ITS EMPLOYEES, OR IF THE TAX RATES ON LABOR ARE CHANGED, BILLS WILL BE RENDERED BY CSX AND PAID BY CHPE LLC USING THE NEW RATES AND CONTRACTOR SHALL PERFORM THEIR OPERATIONS THAT REQUIRE TRACK PROTECTION OR INSPECTION SERVICE IN SUCH A MANNER AND SEQUENCE THAT THE COST OF SUCH WILL BE AS ECONOMICAL AS POSSIBLE.
13. UTILITY FACILITIES ON CSX PROPERTY
- 13.a. CHPE LLC SHALL ARRANGE, UPON APPROVAL FROM CSX, TO HAVE ANY UTILITY FACILITIES ON OR OVER CSX PROPERTY CHANGED AS MAY BE NECESSARY TO PROVIDE CLEARANCES FOR THE PROPOSED FACILITIES.
14. CLEAN-UP
- 14.a. CHPE LLC OR CONTRACTOR, UPON COMPLETION OF THE PROJECT, SHALL REMOVE AND DISPOSE FROM CSX'S PROPERTY ANY TEMPORARY CONSTRUCTION WORK, ANY TEMPORARY EROSION CONTROL MEASURES USED TO CONTROL DRAINAGE, ALL MACHINERY, EQUIPMENT, SURPLUS MATERIALS, FALSEWORK, RUBBISH, OR TEMPORARY BUILDINGS BELONGING TO CHPE LLC OR CONTRACTOR. CHPE LLC OR CONTRACTOR, UPON COMPLETION OF THE PROJECT, SHALL LEAVE CSX PROPERTY IN KIND OR BETTER CONDITION, SATISFACTORY TO THE CSX REPRESENTATIVE.
15. FAILURE TO COMPLY
- 15.a. IF CHPE LLC OR CONTRACTOR VIOLATE OR FAIL TO COMPLY WITH ANY OF THE REQUIREMENTS OF THESE SPECIAL PROVISIONS, (A) CSX MAY REQUIRE CHPE LLC AND/OR CONTRACTOR TO VACATE CSX PROPERTY; AND (B) CSX MAY WITHHOLD MONIES DUE CHPE LLC AND/OR CONTRACTOR; (C) CSX MAY REQUIRE CHPE LLC TO WITHHOLD MONIES DUE CONTRACTOR; AND (D) CSX MAY CURE SUCH FAILURE AND THE CHPE LLC SHALL REIMBURSE CSX FOR THE COST OF CURING SUCH FAILURE.
16. FENCING NOTES
- 16.a. ALL MATERIALS USED FOR THE FENCE AND GATE CONSTRUCTION SHALL CONFORM TO AASHTO M 181.
- 16.b. MATERIAL FOR THE FENCING SHALL BE AASHTO M 181 TYPE I, II, III OR IV.
- 16.c. GRADE 2 STEEL POSTS, RAILS, AND GATE FRAMES SHALL BE USED UNLESS OTHERWISE NOTED ON THE PLANS. THE TOP RAILS AND COMPRESSION BRACES SHALL CONSIST OF GRADE 2 STEEL.
- 16.d. THE FABRIC SHALL BE AASHTO TYPE I, CLASS D, 9 GAUGE, OR APPROVED EQUAL.
- 16.e. THE MINIMUM PIPE SIZES FOR FENCE COMPONENTS SHALL BE AS FOLLOWS:

COMPONENT	FENCE INDUSTRY O.D. (GRADE 2)	NOMINAL PIPE SIZE I.D.
LINE POSTS	2-1/2 INCH	2 INCH
GATE POSTS	4 INCH	3-1/2 INCH
CORNER POSTS	3 INCH	2-1/2 INCH
TOP RAILS	1-5/8 INCH	1-1/4 INCH
COMPRESSION BRACES	1-5/8 INCH	1-1/4 INCH

- 16.f. ALL POSTS SHALL BE CROWNED WITH AN APPROVED TOP SO DESIGNED AS TO FIT SECURELY TO THE TOP OF THE POST AND CARRY THE TOP RAIL.
- 16.g. CONCRETE FOR POST FOUNDATIONS SHALL HAVE MINIMUM 28 DAY STRENGTH OF 2800 PSI.
- 16.h. TENSION RODS SHALL BE 3/8 INCH ROUND RODS WITH DROP FORGED TURNBUCKLES OR OTHER SIMILAR TYPE OF ADJUSTMENT.
- 16.i. FENCE FABRIC SHALL BE WOVEN INTO AN APPROXIMATELY 2 INCH DIAMOND MESH. TOP AND BOTTOM SELVAGES ARE TO HAVE TWIST.
- 16.j. COUPLING OR EXPANSION SLEEVES SHALL BE OUTSIDE SLEEVE TYPE AND BE AT LEAST SIX (6) INCHES LONG.
- 16.k. FABRIC BANDS SHALL BE NOT LESS THAN 1/8 INCH X 3/4 INCH IN SECTIONS. STRETCH BARS SHALL BE NOT LESS THAN ¼ INCH X ¾ INCH IN SECTION. TIE WIRE SHALL BE 9 GAUGE.

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

CHAMPLAIN HUDSON POWER EXPRESS  
SEGMENT 8 (PACKAGE 5A) - CSX: ROTTERDAM - BETHLEHEM

CSX GENERAL NOTES

KIEWIT PROJECT NO.	
21162	
DRAWING NO.	
G-004	
DATE	06/09/2023
SH.NO.	5 OF

DRAWN BY:	DESIGNED BY:	APPROVED BY:	SCALE	AS SHOWN	DATE
			REV. NO.	0	06/09/2023





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































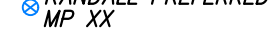





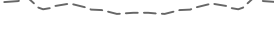



























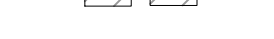





































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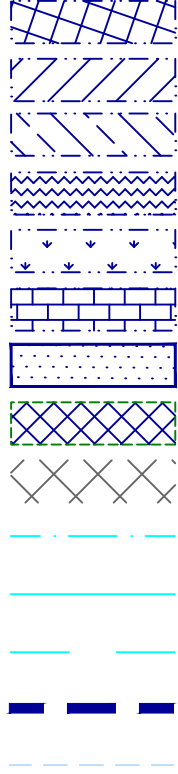
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LEGEND & ABBREVIATIONS

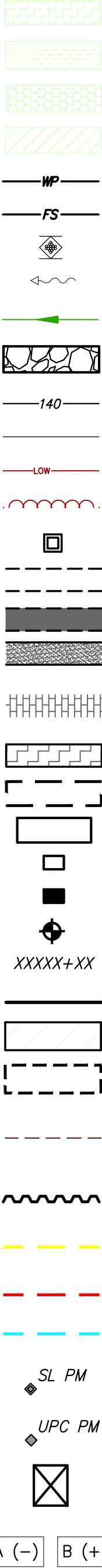
	EXIST. FIBER OPTIC LINE HANDHOLE		EXISTING SIGN
	EXIST. FIBER OPTIC LINE PEDESTAL		EXIST. STRUCTURE POST
	EXIST. FIBER OPTIC LINE DOGHOUSE		EXIST. STRUCTURE MAILBOX
	EXIST. FIBER OPTIC LINE MANHOLE		EXIST. GAS LINE
	EXIST. FIBER OPTIC LINE VAULT		EXIST. UNDERGROUND TELE.
	EXIST. FIBER OPTIC LINE BORE PIT		EXIST. FIBER OPTIC
	EXIST. FIBER OPTIC LOCK BOX		EXIST. OVERHEAD TELE.
	EXIST. GROUND ROD		EXIST. UNDERGROUND ELEC.
	EXIST. FIBER OPTIC MARKER POST		EXIST. OVERHEAD ELEC.
	EXIST. FIBER OPTIC BOX		EXIST. CULVERT
	EXIST. FIBER STORAGE		EXIST. SANITARY SEWER
	EXIST. FIRE HYDRANT		EXIST. STORM SEWER
	EXIST. WATER VALVE		EXIST. POTABLE WATER LINE
	EXIST. WATER MANHOLE		EXIST. FUEL LINE
	EXIST. WATER MARKER		CERTIFIED ROUTE PROVIDED BY CHPE KMZ
	EXIST. SANITARY SEWER MANHOLE		RANDALL PREFERRED PROVIDED BY CHPE KMZ
	EXIST. SANITARY SEWER VENT		EXIST. CONTOUR, INDEX
	EXIST. STORM SEWER MANHOLE		EXIST. CONTOUR, DEPRESSION INDEX
	EXIST. STORM SEWER CATCH BASIN		EXIST. CONTOUR, INTERMEDIATE
	EXIST. CULVERT INVERT		EXIST. CONTOUR, DEPRESSION INTERMEDIATE
	EXIST. GAS MANHOLE		EXIST. SPOT ELEVATION
	EXIST. GAS VALVE		EXIST. DEBRIS
	EXIST. GAS MARKER		EXIST. FIELD LINE
	EXIST. GAS PIPELINE VENT		EXIST. LANDSCAPE AREA
	EXIST. LIGHT POLE		EXIST. PILE
	EXIST. UTILITY POLE		EXIST. STORAGE AREA
	EXIST. ELEC. POLE		EXIST. NATURAL BOULDER
	EXIST. ELEC. TOWER		EXIST. NATURAL SHRUB LINE
	EXIST. TRAFFIC LIGHT		EXIST. NATURAL TREE LINE
	EXIST. ELEC. METER		EXIST. NATURAL SINGLE TREE/BUSH
	EXIST. ELEC. MANHOLE		EXIST. STRUCTURAL BUILDING
	EXIST. ELEC. TRANSFORMER		EXIST. PAVED DRIVE
	EXIST. ELEC. VAULT		EXIST. PAVED ROAD
	EXIST. ELEC. HANDHOLE		EXIST. PAVED SHOULDER
	EXIST. ELEC. PEDESTAL/BOX		EXIST. PAVED SIDEWALK
	EXIST. ELEC. MARKER POST		EXIST. GUARDRAIL
	EXIST. ELEC. GUY ANCHOR/WIRE		EXIST. TRAIL
	EXIST. TELE. RISER/BOX		EXIST. FENCE
	EXIST. TELE. MANHOLE		EXIST. WALL
	EXIST. TELE. HANDHOLE		EXIST. RETAINING WALL
	EXIST. TELE. VAULT		EXIST. MILEPOST NUMBER
	EXIST. TELE. PEDESTAL		EXIST. MAPPING BOUNDARY
	EXIST. TELE. DOGHOUSE		EXIST. GROUND CONTROL
	EXIST. TELE. MARKER POST		EXIST. RIGHT-OF-WAY
	EXIST. TELE. JUNCTION BOX		EXIST. ABUTTER
	EXIST. TRAFFIC SIGNAL BOX		EXIST. WETLAND FLAG
	EXIST. CELL TOWER		EXIST. WETLANDS
	EXIST. CABLE BOX		EXIST. WATERBODY, STREAM, OR STREAM BANK
	EXISTING MANHOLE UNKNOWN		
	EXISTING UTILITY BOX UNKNOWN		
	EXISTING ANTENNA		
	EXISTING CAPPED IRON ROD		
	EXISTING IRON PIPE		
	EXISTING CONCRETE MONUMENT		
	EXISTING POST		
	EXISTING REFLECTOR MARKER		
	EXISTING SYMBOL		

NOTES:

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



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



VEG. CLEARING -- TYPE I -- HAND CUTTING  
VEG. CLEARING -- TYPE II -- MECHANICAL CLEARING  
VEG. CLEARING -- TYPE III -- MOWING  
VEG. CLEARING -- TYPE IV -- MECHANICAL WHOLE-TREE FELLING  
PROP. WETLAND PROTECTION FENCE  
PROP. COMPOST FILTER SOCK (OR SILT SOCK)  
CHECK DAM  
SURFACE WATER FLOW  
PROP. TEMPORARY SWALE  
STABILIZED CONSTRUCTION ENTRANCE (TYP.)  
PROP. TEMP MAJOR CONTOUR  
PROP. TEMP MINOR CONTOUR  
PROP. LIMITS OF WORK/DISTURBANCE  
PROP. LIMITS OF CLEARING/LIMITS OF WORK IN CLEARING AREAS  
PROP. CONCRETE WASHOUT  
PROP. TEMP ACCESS ROAD RTE (EXISTING ROAD OR SURFACE)  
PROP. TEMP REFURBISHED ACCESS ROAD  
PROP. TEMP ACCESS ROAD OR OFF SITE ACCESS ROAD  
PROP. WETLAND OR AGRICULTURAL LAND\* WORKING SURFACE (SEE SHEET C-613) (\*AGRICULTURAL LANDS MAY USE WETLAND WORKING SURFACE OR OTHER APPROVED MITIGATION METHODS)  
PROP. MILLING & RESURFACING  
PROP. SPLICE LOCATION  
PROP. SPLICE VAULT  
PROP. LINK BOX HANDHOLE  
PROP. FIBER SPLICE HANDHOLE  
PROP. BORING LOCATION  
PROP. ALIGNMENT STATIONING  
PROP. ALIGNMENT CENTERLINE  
PROP. LAYDOWN YARDS, PARKING, STORAGE & MUSTER AREA  
PROP. WORK AREAS  
7' FOUL ZONE: NO VEHICLES, MATERIALS, DISTURBANCE, PERSONNEL, OR WORK SHALL ENCROACH THE ZONE WITHIN 7FT OF THE NEAREST RAIL WITHOUT CSX COORDINATION AND APPROVAL  
PROP. SHORING/SHEETING  
PROP. TEMP EASEMENT  
PROP. PERM EASEMENT  
PROP. TEMP ACCESS EASEMENT  
SPLICE LOCATION POLE MARKER  
UNDERGROUND POWER CABLE POLE MARKER  
PROP. TRANSITION BOX MANHOLE  
DC CABLE IDENTIFICATION TAGS. SEE SHEET C-807 FOR MORE DETAILS

APP	APPROVED
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
DB	DESIGNED BY
DEC	NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DEG	DEGREES
DR	DRIVE
DZ	DEVIATION ZONE
E	EASTING
ELECTRIC	ELECTRIC CABLE
ELEV	ELEVATION
EQNAHD	STATION EQUATION AHEAD
EQNBK	STATION EQUATION BACK
EXIST	EXISTING
FIBER	FIBER OPTIC CABLE
FT	FEET
GAS	GAS PIPE
H	HORIZONTAL
HDD	HORIZONTAL DIRECTIONAL DRILLING
HVDC	HIGH-VOLTAGE DIRECT CURRENT TRANSMISSION LINE
INV	INVERT ELEVATION
LOW	LIMITS OF WORK
LT	LEFT
MAX	MAXIMUM
MIN	MINIMUM
N	NORTHING
NO	NUMBER
NY	NEW YORK
NYCDEP	NEW YORK CITY DEPT. OF ENVIRONMENT PROTECTION
NYCDOT	NEW YORK CITY DEPT. OF TRANSPORTATION
NYDPR	NEW YORK CITY DEPT. OF PARKS AND RECREATION
P#	PACKAGE #
PERM	PERMANENT
PROP.	PROPOSED
PVC	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
REV	REVISION
ROW	RIGHT-OF-WAY
RT	RIGHT
RTE	ROUTE
SEWER	SANITARY SEWER PIPE
SH	SHEET
ST	STREET
STA	STATION
STORM	STORM DRAIN PIPE
TELECOM	TELECOMMUNICATIONS CABLE
TEMP	TEMPORARY
TR	THERMAL RESISTIVITY
TYP	TYPICAL
V	VERTICAL
WATER	WATERLINE



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0	06/09/2023	ISSUED FOR CONSTRUCTION SUBMISSION	BV	TK	
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	

CHAMPLAIN HUDSON POWER EXPRESS  
SEGMENT 8 (PACKAGE 5A) - CSX: ROTTERDAM - BETHLEHEM  
LEGEND AND ABBREVIATIONS

DRAWN BY:	AR	DESIGNED BY:	BV	APPROVED BY:	TK	SCALE	AS SHOWN	DATE	06/09/2023
						REV. NO.	0	SH.NO.	6 OF

KIEWIT PROJECT NO.	21162
DRAWING NO.	G-005





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Scale in feet

						CHAMPLAIN HUDSON POWER EXPRESS SEGMENT 8 (PACKAGE 5A) - CSX: ROTTERDAM - BETHLEHEM  PLAN AND PROFILE KEY MAP								KIEWIT PROJECT NO. 21162		
														DRAWING NO.		
														G-006		
0	06/09/2023	ISSUED FOR CONSTRUCTION SUBMISSION			BV									TK		
No.	DATE	SUBMITTAL / REVISION DESCRIPTION			DB	APP	DRAWN BY:	AR	DESIGNED BY:	BV	APPROVED BY:	TK	SCALE	AS SHOWN	DATE	06/09/2023
													REV. NO.	0	SH.NO.	7 OF







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SEGMENT 8 – CONSTRUCTION METHODS

CHAPTER 4 –CONSTRUCTION METHODS	
TOPIC	SECTION OF EM&CP
CABLE INSTALLATION REQUIREMENTS	4.2
HORIZONTAL DIRECTIONAL DRILLING	4.3
INSTALLATION AND PERFORMANCE CONTROLS	4.3.1
BUILDINGS AND STRUCTURES WITHIN 100–FT OF HDD	4.3.2
INADVERTANT RELEASE CONTINGENCY PLAN AND DRILLING FLUID MANAGEMENT	4.3.3, APPENDIX J
ROAD CROSSING METHODS	4.3.4
TRENCHING	4.4
TRENCHING IN AGRICULTURAL LANDS	4.4.1
TRENCHING IN ROADWAYS	4.4.2
TRENCHING IN WETLANDS	4.4.3
LENGTH OF OPEN TRENCH	4.4.4
SPLICING AND JOINTING	4.4.5
DEWATERING METHODS	4.4.6
BEDDING AND BACKFILLING METHODS	4.4.7
DREDGING	NOTE APPLICABLE FOR THIS SEGMENT
CONVERTER STATION AND SUBSTATION REQUIREMENTS	NOTE APPLICABLE FOR THIS SEGMENT
RIGHT OF WAYS AND EASEMENTS	4.7
RIGHT OF WAY CLEARING	4.8 (SEE ALSO SECTION 8)
BUILDING AND STRUCTURE REMOVAL	4.9
ACCESS ROADS	4.10
DRIVEWAY ACCESS DURING CONSTRUCTION	4.10.2
ACCESS THROUGH WETLANDS OR STREAMS	4.10.3
ACCESS THROUGH AGRICULTURAL LANDS	4.10.4
DRAIN LINES AND UNDER DRAINS WITHIN AGRICULTURAL LANDS	4.10.5
SOIL MANAGEMENT PLAN	4.11 AND APPENDIX L
CULVERT REPLACEMENT	4.12

NOTE: TABLE 4 SUMMARIZES THE CONSTRUCTION METHODS AND ASSOCIATED SUBSECTIONS THAT SUMMARIZE THE MEASURES AND STANDARDS THAT WILL BE FOLLOWED WITHIN SEGMENT 8.

TABLE 4–1 – SEGMENT 8 HDD LOCATIONS				
HDD #	SHEET	APPROXIMATE LENGTH (FEET)	STATION (APPROXIMATE –SEE DRAWINGS FOR DETAILS)	PURPOSE
71	C–101 AND C–102	1,925	STA 50005 TO 50024	AVOID PHILLIPS ROAD, UNDERGROUND UTILITIES
72	C–103 AND C–104	550	STA 50043 TO 50048+50	AVOID MARIAVILLE ROAD
73	C–105	525	STA 50065 TO 50070	AVOID DUANESBURG ROAD
73.A AND 74	C–107 AND C–108	1,985	STA 50100 TO 50120	AVOID OVERHEAD ELECTRIC, CULVERT, NYS THRUWAY
75	C–110 AND C–111	800	STA 50146 TO 50154	AVOID GUILDERLAND AVE
75.A.A	C–112	700	STA 50168+50 TO 50175+50	AVOID WETLAND
75.A	C–115 AND C–116	2,250	STA 50210+50 TO 50233	AVOID MULTIPLE CULVERTS
75.B	C–120	730	STA 50290+50 TO 50298	AVOID CULVERTS
76 AND 76.A	C–121 AND C–122	2,075	STA 50307 TO 50327+50	AVOID WESTERN TURNPIKE AND WATERBODY
77	C–123 AND C–124	1,380	STA 50332+50 TO 50346+50	AVOID WETLAND
78	C–126 AND C–127	1,960	STA 50382+50 TO 50402	AVOID STATE ROUTE 146, CULVERT
79.B	C–128 AND C–129	1,240	STA 50410 TO 50422	AVOID CULVERT AND DEC STREAM

TABLE 4–2 – SUMMARY OF PARCELS WITHIN 100 FEET OF HDD OPERATIONS		
HDD #	PARCEL NUMBER	SHEET (APPROXIMATE –SEE APPENDIX C FOR DETAILS)
71	47.–8–1.111	C–101 AND C–102
73A 74	58.–2–2.21	C–107 AND C–108
75A	14.00–2–29	C–115 AND C–116
75A	14.00–2–17	C–115 AND C–116
75A	14.00–2–36.2	C–115 AND C–116
75B	26.00–3–34	C–120
75B AND 76 76A	26.00–3–35	C–120 TO C–122
76 AND 76A	38.00–4–9	C–121
76 76A 77	38.00–4–5.6	C–121 TO C–124
78	38.20–2–21	C–126 AND C–127
78	38.00–5–14	C–126 AND C–127
78	50.00–1–15	C–127
78 79B 80	50.00–1–14.11/2	C–126 TO C–131
80A	61.–3–16.1	C–137 TO C–139
80A	61.19–2–4	C–137 TO C–139
80A	61.19–5–1	C–137 TO C–139
80A 81	61.19–2–2	C–137 TO C–140
81	61.18–4–1.1	C–140
81	72.8–3–1	C–139 AND C–140
81	72.8–1–1	C–139 AND C–140
81	72.7–3–35	C–139 AND C–140
81	72.7–3–31	C–139 AND C–140
81	72.7–3–31	C–139 AND C–140
81	61.19–3–22	C–139 AND C–140
81	61.19–2–6	C–139 AND C–140
82 AND 83	72.12–1–44	C–140 TO C–142
82 AND 83	72.12–1–43	C–140 TO C–142
82 AND 83	72.12–1–43	C–140 TO C–142
82 AND 83	72.12–1–42	C–140 TO C–142
82 AND 83	72.12–1–41	C–140 TO C–142
82 AND 83	72.12–1–39	C–140 TO C–142
82 AND 83	72.12–1–38	C–140 TO C–142

SEGMENT 8 – HDD INFORMATION AND ADJACENT STRUCTURES

TABLE 4–1 – SEGMENT 8 HDD LOCATIONS				
HDD #	SHEET	APPROXIMATE LENGTH (FEET)	STATION (APPROXIMATE –SEE DRAWINGS FOR DETAILS)	PURPOSE
80	C–130 AND C–131	1,880	STA 50443 TO 50461+50	AVOID DEC STREAM, LIMITED ROW AREA, CULVERTS
80.A	C–137 TO C–139	2,060	STA 50551 TO 50572	AVOID CULVERTS AND WETLAND
81	C–139 AND C–140	1,055	STA 50578 TO 50589	AVOID CULVERTS AND UTILITIES, MAIN STREET
82 AND 83	C–141 AND C–142	1,575	STA 50600 TO 50616	AVOID MAPLE ROAD, CULVERT, DEC STREAM
83.A	C–145 AND C–146	700	STA 50674 TO 50681	AVOID STREAM WITHIN CULVERT
84	C–146 AND C–147	1,085	STA 50687 TO 50698	AVOID CULVERT AND NEW SCOTLAND ROAD
84.A	C–149 AND C–150	1,030	STA 50729 TO 50739	AVOID NEW SCOTLAND SOUTH ROAD, BRIDGE CROSSING, AND STREAMS
84.B	C–152 AND C–153	1,030	STA 50777+50 TO 50793+50	AVOID GAME FARM ROAD, TERRAIN CONSTRAINTS
85	C–154 AND C–155	1,555	STA 50808 TO 50823+50	AVOID DELAWARE TURNPIKE AND MANY CULVERTS
87	C–156 AND C–157	1,210	STA 50830+50 TO 50842+50	AVOID STREAM AND GAS LINES
87.A.A	C–160	650	STA 50890+50 TO 50897	AVOID CULVERT

TABLE 4–2 – SUMMARY OF PARCELS WITHIN 100 FEET OF HDD OPERATIONS		
HDD #	PARCEL NUMBER	SHEET (APPROXIMATE –SEE APPENDIX C FOR DETAILS)
82 AND 83	72.12–4–9	C–140 TO C–142
82 AND 83	72.12–4–8	C–140 TO C–142
82 AND 83	72.12–4–6	C–140 TO C–142
82 AND 83	72.12–4–2	C–140 TO C–142
82 AND 83	72.12–4–1	C–140 TO C–142
82 AND 83	72.12–3–1	C–140 TO C–142
82 AND 83	72.8–1–26	C–140 TO C–142
82 AND 83	72.8–1–25	C–140 TO C–142
82 AND 83	72.8–1–7.2	C–140 TO C–142
82 AND 83	72.8–1–16.1	C–140 TO C–142
82 AND 83	72.8–1.7.1	C–140 TO C–142
82 AND 83	72.8–3–33	C–140 TO C–142
83A	72.–3–41.2	C–145 AND C–146
83A	72.–3–41.3	C–145 AND C–146
83A	72.–3–42	C–145 AND C–146
83A 84	72.–3–41.612	C–145 TO C–147
84A	84.–1–40.11	C–149 AND C–150
84A	84.–1–9	C–149 AND C–150
84A	84.–4–1.30	C–149 AND C–150
84A	84.–4–1.22	C–149 AND C–150
84A	84.–4–1.21	C–149 AND C–150
84A	84.–2–49.4	C–149 AND C–150
84B	84.–2–50	C–152 AND C–153
84B	84.–2–50	C–152 AND C–153
84B	95.–3–1.1	C–152 AND C–153
84B	95.–3–2.1	C–152 AND C–153
84B	95.–3–3	C–152 AND C–153
85	95.–3–41	C–154 AND C–155
85	95.–3–42	C–154 AND C–155
87	107.–1–3	C–156 AND C–157
87AA	108.00–1–13	C–160
87AA	108.00–1–12	C–160

A

B



FOR INFORMATION, SEE ENVIRONMENTAL MANAGEMENT AND CONSTRUCTION PLAN NARRATIVE.

0	06/09/2023	ISSUED FOR CONSTRUCTION SUBMISSION			
No.	DATE	SUBMITTAL / REVISION DESCRIPTION		DB	APP

CHAMPLAIN HUDSON POWER EXPRESS  
SEGMENT 8 (PACKAGE 5A) - CSX: ROTTERDAM - BETHLEHEM  
EM&CP TABLES 1 OF 7

KIEWIT PROJECT NO. 21162	
DRAWING NO. <b>G-010</b>	
DATE 06/09/2023	10 OF

DRAWN BY:	DESIGNED BY:	APPROVED BY:	SCALE REV. NO.	AS SHOWN 0
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SEGMENT 8 – FACILITY OWNERSHIP AND EASEMENTS

TABLE 4-4 -FACILITY ROW OWNERSHIP FOR SEGMENT 8							
COUNTY	TOWN	PARCEL NUMBER	PROPERTY OWNER	STATIONING START	STATIONING END	OWNER TYPE	TYPE OF EASEMENT
SCHENECTADY COUNTY	ROTTERDAM		PRINCETOWN ROAD	50000+00	50011+95	PUBLIC	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM		PRINCETOWN ROAD	50000+00	50005+38	PUBLIC	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM		PHILIPS ROAD	50009+63	50009+89	PUBLIC	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	48.-1-12.11	DELAWARE & HUDSON RAIL COMPANY	50011+95	50013+25	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	47.-8-1.111	1155 PRINCETOWN ROAD, LLC	50014+68	50015+28	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM		BURDECK STREET	50020+71	50021+80	PUBLIC	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM		BURDECK STREET	50021+57	50022+17	PUBLIC	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	48.00-3-5	797 BURDECK ST PROPERTY LLC	50021+67	50022+44	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	48.00-3-5	797 BURDECK ST PROPERTY LLC	50023+70	50029+25	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	48.00-1-12	DELAWARE & HUDSON RAILWAY	50034+59	50035+24	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	48.00-1-12	DELAWARE & HUDSON RAILWAY	50034+69	50035+37	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM		KELLER AVE	50040+88	50041+84	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM		KELLER AVE	50040+88	50041+84	PUBLIC	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	48.17-3-3.1	SHAWN M & PAMELA V. SMITH	50041+70	50044+23	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	48.17-3-3.1	SHAWN M & PAMELA V. SMITH	50041+70	50042+77	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM		MARIAVILLE ROAD	50044+23	50044+75	PUBLIC	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	48.17-3-12	DAZ REAL ESTATE DEVELOPMENT	50044+75	50045+37	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	48.17-3-11.11	COUNTY OF SCHENECTADY	50045+37	50054+30	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	48.17-3-11.11	COUNTY OF SCHENECTADY	50048+20	50054+30	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	48.17-3-11.11	COUNTY OF SCHENECTADY	50056+00	50054+30	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	48.17-7-1	COUNTY OF SCHENECTADY	50054+30	50058+80	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	48.17-7-1	COUNTY OF SCHENECTADY	50054+30	50058+80	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	48.17-7-3	3324 THOMSON LLC	50058+80	50061+85	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	48.17-7-3	3324 THOMSON LLC	50058+80	50061+85	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	48.17-7-3	3324 THOMSON LLC	50060+02	50061+85	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	48.17-7-4	3324 THOMSON LLC	50062+00	50063+00	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	48.17-7-10.11	PARKVIEW AT TICONDEROGA, LLC	50061+85	50065+02	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	48.17-7-10.11	PARKVIEW AT TICONDEROGA, LLC	50061+85	50067+11	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	48.17-7-10.11	PARKVIEW AT TICONDEROGA, LLC	50061+85	50065+02	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM		DUANESBURG ROAD	50067+11	50067+68	PUBLIC	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	58.-1-12.111	GOLUB CORPORATION	50067+68	50089+00	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	58.-1-12.111	GOLUB CORPORATION	50070+08	50090+73	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	58.-1-12.111	GOLUB CORPORATION	50070+14	50071+00	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	58.-1-12.111	GOLUB CORPORATION	50094+30	50099+25	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	58.-1-12.111	GOLUB CORPORATION	50096+20	50098+30	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	58.-1-12.111	GOLUB CORPORATION	50100+85	50102+40	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	38.00-1-2.31	NIAGARA MOHAWK POWER CORPORATION	50102+40	50103+55	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	58.-1-12.111	GOLUB CORPORATION	50103+55	50105+09	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	58.00-1-2.31	ROTTERDAM VENTURES INC	50105+09	50108+79	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	58.00-1-8	ANEEL RAMTEJ	50108+79	50144+50	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM		NEW YORK STATE THROUGHWAY	50144+50	50119+70	PUBLIC	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM		NEW YORK STATE THROUGHWAY	50118+21	50119+70	PUBLIC	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM		NEW YORK STATE THROUGHWAY	50118+31	50119+70	PUBLIC	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	58.-2-2.21	JEFFERY BROWN	50118+50	50118+75	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	58.14-1-4.21	LAWRENCE G. WHITE	50119+70	50122+95	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	58.14-1-4.21	LAWRENCE G. WHITE	50119+70	50122+95	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	58.14-1-4.111	JACOB SCHUMACHER & ALEXANDER FROST	50122+95	50125+82	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	58.14-1-4.111	JACOB SCHUMACHER & ALEXANDER FROST	50122+95	50125+82	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	58.14-1-4.112	HARVEY CIVIL . & ANN M. NEACH	50125+82	50128+25	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	58.14-1-4.112	HARVEY CIVIL . & ANN M. NEACH	50125+82	50128+25	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	58.14-1-4.112	HARVEY CIVIL . & ANN M. NEACH	50125+82	50128+25	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	58.14-1-6	WESTCOTT ENTERPRISES, LLC	50128+25	50130+40	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	58.14-1-6	WESTCOTT ENTERPRISES, LLC	50128+25	50133+50	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	58.18-3-17	LARRY MARTINELLI	50143+55	50147+32	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	58.18-3-17	LARRY MARTINELLI	50147+62	50149+30	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	58.18-3-17	LARRY MATINELLI	50148+52	50149+30	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM		GUILDERLAND AVE	50149+30	50149+40	PUBLIC	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM		GUILDERLAND AVE	50149+30	50149+40	PUBLIC	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM		GUILDERLAND AVE	50149+30	50150+80	PUBLIC	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	70.6-3-1.1	THE ALGER REVOCABLE TRUST	50153+00	50159+45	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	70.6-3-1.1	THE ALGER REVOCABLE TRUST	50153+00	50159+45	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	70.6-3-1.1	THE ALGER REVOCABLE TRUST	50153+00	50159+45	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	70.-3-5.111	JAMES L BURK	50159+45	50163+11	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	70.-3-5.111	JAMES L BURK	50159+45	50161+42	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	70.-3-5.111	JAMES L BURK	50159+45	50176+97	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	70.-3-5.111	JAMES L BURK	50167+30	50176+97	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	70.00-3-29	MICHAEL H. GRIESEMER	50176+97	50183+90	PRIVATE	PERMANENT
SCHENECTADY COUNTY	ROTTERDAM	70.00-3-29	MICHAEL H. GRIESEMER	50176+97	50183+90	PRIVATE	TEMPORARY CONSTRUCTION
SCHENECTADY COUNTY	ROTTERDAM	70.-3-22	COLLINS REVOCABLE TRUST, RANDOLPH J.	50183+90	50188+70	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND		COUNTY LINE ROAD (EAST)	50195+10	50195+61	PUBLIC	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND		COUNTY LINE ROAD	50195+10	50195+61	PUBLIC	PERMANENT
ALBANY COUNTY	GUILDERLAND		COUNTY LINE ROAD (WEST)	50195+10	50195+61	PUBLIC	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	14.-2-15	MARTHA E. MASTERS	50195+61	50207+50	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	14.-2-15	MARTHA E. MASTERS	50195+61	50200+12	PRIVATE	PERMANENT
ALBANY COUNTY	GUILDERLAND	14.-2-15	MARTHA E. MASTERS	50203+50	50206+50	PRIVATE	PERMANENT
ALBANY COUNTY	GUILDERLAND	14.-2-17	VICTOR DEPALO	50210+86	50210+86	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	14.-2-17	VICTOR DEPALO	50206+50	50212+00	PRIVATE	PERMANENT
ALBANY COUNTY	GUILDERLAND	14.-2-36.2	STEPHEN ZELEZNIAK	50232+60	50240+12	PRIVATE	TEMPORARY CONSTRUCTION

TABLE 4-4 -FACILITY ROW OWNERSHIP FOR SEGMENT 8							
COUNTY	TOWN	PARCEL NUMBER	PROPERTY OWNER	STATIONING START	STATIONING END	OWNER TYPE	TYPE OF EASEMENT
ALBANY COUNTY	GUILDERLAND	14.-2-36.2	STEPHEN ZELEZNIK	50251+41	50252+80	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	14.-2-36.2	STEPHEN ZELEZNIK	50251+41	50252+80	PRIVATE	PERMANENT
ALBANY COUNTY	GUILDERLAND	14.-2-36.2	STEPHEN ZELEZNIK	50251+41	50252+80	PRIVATE	TEMPORARY CONSTRUCTION (MUSTER AREA)
ALBANY COUNTY	GUILDERLAND		W. OLD STATE ROAD	50253+55	50254+07	PUBLIC	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND		W. OLD STATE ROAD	50253+55	50254+07	PUBLIC	PERMANENT
ALBANY COUNTY	GUILDERLAND	26.00-3-22	BRIAN E.MAKI	50254+40	20256+60	PRIVATE	PERMANENT
ALBANY COUNTY	GUILDERLAND	26.00-3-22	BRIAN E.MAKI	50254+40	20256+60	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	26.00-3-22	BRIAN E.MAKI	50254+40	20256+60	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	26.00-3-20.1	JAMES A. MOLLER	20256+60	50258+12	PRIVATE	PERMANENT
ALBANY COUNTY	GUILDERLAND	26.00-3-20.1	JAMES A. MOLLER	20256+60	50262+12	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	26.00-3-19	DAVID R. RALSTON	50262+12	50267+39	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	26.00-3-34	ROBERT DUNCAN	50280+87	50294+02	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	26.00-3-34	ROBERT DUNCAN	50281+22	50284+12	PRIVATE	PERMANENT
ALBANY COUNTY	GUILDERLAND	26.00-3-34	ROBERT DUNCAN	50291+10	50299+00	PRIVATE	PERMANENT
ALBANY COUNTY	GUILDERLAND	26.00-3-34	ROBERT DUNCAN	50297+50	50299+70	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	26.00-3-35	EIGHTY FOUR PROPERTIES, LLC	50299+71	50307+05	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	26.00-3-35	EIGHTY FOUR PROPERTIES, LLC	50301+10	50303+10	PRIVATE	PERMANENT
ALBANY COUNTY	GUILDERLAND	26.00-3-35	EIGHTY FOUR PROPERTIES, LLC	50304+48	50305+03	PRIVATE	TEMPORARY CONSTRUCTION ( ACCESS RD)
ALBANY COUNTY	GUILDERLAND	26.00-3-35	EIGHTY FOUR PROPERTIES, LLC	50305+98	50309+00	PRIVATE	PERMANENT
ALBANY COUNTY	GUILDERLAND		ROUTE 20 - WESTERN TURNPIKE	50309+00	50309+72	PUBLIC	PERMANENT
ALBANY COUNTY	GUILDERLAND	26.00-3-36.21	JAMES BESHA	50308+00	50310+00	PRIVATE	TEMPORARY CONSTRUCTION ( ACCESS RD)
ALBANY COUNTY	GUILDERLAND	26.00-3-36.22	SUSAN THOMAS	50308+00	50310+00	PRIVATE	TEMPORARY CONSTRUCTION ( ACCESS RD)
ALBANY COUNTY	GUILDERLAND	38.00-4-9	CRISTO DEMOLITIONS LLC	50308+96	50309+56	PRIVATE	TEMPORARY CONSTRUCTION ( ACCESS RD)
ALBANY COUNTY	GUILDERLAND	38.00-4-9	CRISTO DEMOLITIONS LLC	50310+21	50360+50	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	38.00-4-9	CRISTO DEMOLITIONS LLC	50310+91	50312+00	PRIVATE	PERMANENT
ALBANY COUNTY	GUILDERLAND	38.00-4-9	CRISTO DEMOLITIONS INC	50342+60	50357+95	PRIVATE	PERMANENT
ALBANY COUNTY	GUILDERLAND	26.00-4-3	WATERVLIET WATER BOARD	50364+33	50368+54	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	38.00-5-12	TOWN OF GUILDERLAND	50368+54	50371+42	PRIVATE	TEMPORARY CONSTRUCTION ( ACCESS RD)
ALBANY COUNTY	GUILDERLAND	38.00-5-13	TOWN OF GUILDERLAND	50371+42	50378+00	PRIVATE	TEMPORARY CONSTRUCTION ( ACCESS RD)
ALBANY COUNTY	GUILDERLAND		FRENCH MILLS ROAD	50377+86	50378+89	PUBLIC	PERMANENT
ALBANY COUNTY	GUILDERLAND		FRENCH MILLS ROAD (EAST)	50377+86	50378+89	PUBLIC	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND		FRENCH MILLS ROAD (WEST)	50377+86	50378+89	PUBLIC	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	38.00-5-14	TOWN OF GUILDERLAND	50378+89	50384+83	PRIVATE	TEMPORARY CONSTRUCTION ( ACCESS RD)
ALBANY COUNTY	GUILDERLAND		STATE ROUTE 146	50393+86	50395+00	PUBLIC	PERMANENT
ALBANY COUNTY	GUILDERLAND	50.00-1-15	TOWN OF GUILDERLAND	50395+00	50396+88	PRIVATE	PERMANENT
ALBANY COUNTY	GUILDERLAND	50.00-1-14.11	NORTHEASTERN IP HOLDINGS INC	50396+88	50445+76	PRIVATE	PERMANENT
ALBANY COUNTY	GUILDERLAND	50.00-1-14.11	NORTHEASTERN IP HOLDINGS INC	50401+00	50410+00	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	50.00-1-14.11	NORTHEASTERN IP HOLDINGS INC	50402+00	50403+70	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	50.00-1-14.11	NORTHEASTERN IP HOLDINGS INC	50407+63	50410+00	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	50.00-1-14.11	NORTHEASTERN IP HOLDINGS INC	50421+94	50443+12	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	50.00-1-14.11	NORTHEASTERN IP HOLDINGS INC	50421+94	50445+76	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	50.00-1-14.11	NORTHEASTERN IP HOLDINGS INC	50422+27	50445+76	PRIVATE	TEMPORARY CONSTRUCTION ( ACCESS RD)
ALBANY COUNTY	GUILDERLAND	50.00-1-14.21	NORTHEASTERN IP HOLDINGS INC	50445+76	50467+63	PRIVATE	TEMPORARY CONSTRUCTION ( ACCESS RD)
ALBANY COUNTY	GUILDERLAND	50.00-1-14.21	NORTHEASTERN IP HOLDINGS INC	50445+76	40457+72	PRIVATE	PERMANENT
ALBANY COUNTY	GUILDERLAND	50.00-1-14.21	NORTHEASTERN IP HOLDINGS INC	50468+98	50474+30	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	50.00-1-14.21	NORTHEASTERN IP HOLDINGS INC	50485+18	50487+39	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND		STONE ROAD (EAST)	50502+15	50502+84	PUBLIC	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND		STONE ROAD	50502+15	50502+84	PUBLIC	PERMANENT
ALBANY COUNTY	GUILDERLAND		STONE ROAD (WEST)	50502+15	50502+84	PUBLIC	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	61.00-1-22	RANDY J.DAVIS	50503+54	50506+50	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	61.00-1-23	ALICIA L. MCNALLY	50506+50	50507+87	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	61.00-1-26.2	GUILDERLAND AND SELF STORAGE INC	50507+87	50512+57	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	61.00-1-26.3	HELDEBURG ROOF CONSLTANTS LLC	50512+57	50523+05	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	GUILDERLAND	61.00-1-28.2	JEFFERY LAWYER	50540+12	50547+00	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	61.00-3-16.1	FARLIN CORPORATION	50549+50	50550+90	PRIVATE	TEMPORARY CONSTRUCTION ( ACCESS RD)
ALBANY COUNTY	NEW SCOTLAND		FOUNDRY ROAD	50566+00	50578+69	PUBLIC	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND		FOUNDRY ROAD	50577+60	50578+52	PUBLIC	PERMANENT
ALBANY COUNTY	NEW SCOTLAND	61.18-4-1.1	NORFOLK SOUTHERN RIALWAY CO.	50583+05	50585+26	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND	61.18-4-1.1	NORFOLK SOUTHERN RIALWAY CO.	50585+26	50587+02	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND		VOORHEESVILLE AVE	50596+55	50597+00	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	72.8-1-7.2	UNITED STATES POSTAL SERVICE	50597+00	50598+70	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	72.8-1-7.1	MARK CROUNSE	50598+70	50600+95	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	72.8-1-38	JOHN LE SEMENICK	50604+02	50605+60	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND	72.8-1-26	ROBERT B. KAUS	50605+60	50607+30	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND	72.12-3-1	JASON GARDNER	50607+30	50608+61	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND		MAPLE ROAD	50608+61	50609+80	PUBLIC	PERMANENT
ALBANY COUNTY	NEW SCOTLAND	72.12-4-1	MAPLE TOV, LLC	50609+80	50611+62	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND	72.12-4-2	MAPLE TOV, LLC	50611+62	50616+00	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND	72.12-4-2	MAPLE TOV, LLC	50615+58	50617+00	PRIVATE	TEMPORARY CONSTRUCTION ( ACCESS RD)
ALBANY COUNTY	NEW SCOTLAND	72.12-4-8	GEORGE E. STARK	50617+00	50617+56	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	72.12-4-9	MARGARET E. HARBOUR-HOLLAND	50617+56	50619+56	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	72.12-4-10	NEIL D. SHANNON	50619+56	50621+00	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	72.16-5-44	VILLAGE OF VOORHEESVILLE	50645+99	50648+10	PRIVATE	TEMPORARY CONSTRUCTION ( ACCESS RD)
ALBANY COUNTY	NEW SCOTLAND	72.00-3-41.51	DAVID N. MOREAU	50648+10	50649+42	PRIVATE	TEMPORARY CONSTRUCTION ( ACCESS RD)
ALBANY COUNTY	NEW SCOTLAND	72.00-3-41.51	DAVID N. MOREAU	50650+15	50657+00	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	72.00-3-41.51	DAVID N. MOREAU (EAST)	50664+42	50667+00	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	72.00-3-41.51	DAVID N. MOREAU	50664+42	50667+00	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND	72.00-3-41.51	DAVID N. MOREAU (WEST)	50664+42	50667+00	PRIVATE	TEMPORARY CONSTRUCTION



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SEGMENT 8 – FACILITY OWNERSHIP AND EASEMENTS (CONTINUED)

TABLE 4-4 –FACILITY ROW OWNERSHIP FOR SEGMENT 8							
COUNTY	TOWN	PARCEL NUMBER	PROPERTY OWNER	STATIONING START	STATIONING END	OWNER TYPE	TYPE OF EASEMENT
ALBANY COUNTY	NEW SCOTLAND		YOUNANS ROAD (EAST)	50667+00	50668+16	PUBLIC	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND		YOUNANS ROAD	50667+00	50668+16	PUBLIC	PERMANENT
ALBANY COUNTY	NEW SCOTLAND		YOUNANS ROAD (WEST)	50667+00	50668+16	PUBLIC	TEMPORARY CONSTRUCTION (MUSTER AREA)
ALBANY COUNTY	NEW SCOTLAND	72.00-3-41.2	ROBERT A. MENGEL (EAST)	50668+16	50671+98	PRIVATE	TEMPORARY CONSTRUCTION (MUSTER AREA)
ALBANY COUNTY	NEW SCOTLAND	72.00-3-41.2	ROBERT A. MENGEL	50668+16	50671+98	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND	72.00-3-41.2	ROBERT A. MENGEL (WEST)	50668+16	50670+52	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	72.00-3-41.3	DENNIS WOOD	50671+98	50674+55	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	72.00-3-41.3	DENNIS WOOD	50671+98	50674+55	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND	72.00-3-42	DAVID N. MOREAU	50674+55	50675+41	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	72.00-3-42	DAVID N. MOREAU	50674+55	50675+41	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND	72.00-3-43	GREGORY DAVID YOUNANS	50675+41	50677+00	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND	72.00-3-43	GREGORY DAVID YOUNANS	50675+41	50677+00	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	72.00-3-41.611	ROBERT ECKLES	50677+00	50682+54	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	72.00-3-41.611	ROBERT ECKLES	50677+00	50682+54	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND	72.00-3-41.612	ERIC WUTTKE	50682+54	50689+50	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND	72.00-3-41.612	ERIC WUTTKE	50682+54	50689+00	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	84.00-1-9	JAMES J. CRAMER	50689+50	50691+56	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND		WHITBECK LANE	50691+56	50692+03	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND		NEW SCOTLAND ROAD	50692+03	50693+22	PUBLIC	PERMANENT
ALBANY COUNTY	NEW SCOTLAND		NEW SCOTLAND ROAD	50693+27	50693+76	PUBLIC	TEMPORARY CONSTRUCTION ( ACCESS RD)
ALBANY COUNTY	NEW SCOTLAND	84.00-1-26	LONG FAMILY REVOCABLE TRUST	50693+76	50704+17	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	84.00-1-38.1	MARTHA ODEN	50711+00	50713+00	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	84.00-2-49.4	LAURA K. MURRAY	50730+25	50731+25	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND	84.00-2-49.4	LAURA K. MURRAY	50730+25	50731+25	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND		NEW SCOTLAND SOUTH ROAD (EAST)	50731+25	50731+88	PUBLIC	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND		NEW SCOTLAND SOUTH ROAD	50731+25	50731+88	PUBLIC	PERMANENT
ALBANY COUNTY	NEW SCOTLAND		NEW SCOTLAND SOUTH ROAD (WEST)	50731+25	50731+88	PUBLIC	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	84.00-4-1.21	CHESTER BOEHLKE	50731+88	50738+42	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND	84.00-4-1.21	CHESTER BOEHLKE	50731+88	50735+00	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	84.00-4-1.21	CHESTER BOEHLKE	50736+38	50738+42	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	84.00-4-1.22	JEAJ, LLC	50738+42	50746+92	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	84.00-4-1.22	JEAJ, LLC	50738+42	50746+92	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND	95.00-3-1.1	BARBARA WRIGHT	50764+55	50768+50	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND		GAME FARM ROAD	50779+78	50779+92	PUBLIC	PERMANENT
ALBANY COUNTY	NEW SCOTLAND	95.00-3-3	NIAGARA MOHAWK DBA NATIONAL GRID	50787+63	50791+00	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	95.00-3-42	MATHIAS KEIB	50796+22	50800+50	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	95.00-3-42	MATHIAS KEIB	50805+00	50808+33	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	95.00-3-42	MATHIAS KEIB	50807+02	50809+51	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND	95.00-3-41	CSX TRANSPORTATION INC.	50809+51	50810+98	PRIVATE	PERMANENT
ALBANY COUNTY	NEW SCOTLAND	95.00-3-41	CSX TRANSPORTATION INC.	50809+51	50810+98	PRIVATE	TEMPORARY CONSTRUCTION ( ACCESS RD)
ALBANY COUNTY	NEW SCOTLAND		DELAWARE TURNPIKE	50810+98	50811+60	PUBLIC	PERMANENT
ALBANY COUNTY	NEW SCOTLAND		DELAWARE TURNPIKE	50810+98	50811+60	PUBLIC	TEMPORARY CONSTRUCTION ( ACCESS RD)
ALBANY COUNTY	NEW SCOTLAND		WAIDENMAIER ROAD	50831+61	50832+74	PUBLIC	TEMPORARY CONSTRUCTION ( ACCESS RD)
ALBANY COUNTY	NEW SCOTLAND		UNIONVILLE FEURA BUSH ROAD	50837+95	50838+77	PUBLIC	TEMPORARY CONSTRUCTION ( ACCESS RD)
ALBANY COUNTY	BETHLEHEM	108.00-1-12	FLACH PROPERTIES LLC	50885+15	50890+96	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	NEW SCOTLAND	107.00-1-29	FLACH PROPERTIES LLC	50898+40	50898+71	PRIVATE	TEMPORARY CONSTRUCTION ( ACCESS RD)
ALBANY COUNTY	BETHLEHEM	108.00-1-12	FLACH PROPERTIES LLC	50898+40	50898+71	PRIVATE	TEMPORARY CONSTRUCTION ( ACCESS RD)
ALBANY COUNTY	BETHLEHEM	108.00-1-13	FLACH PROPERTIES LLC	50900+42	50901+16	PRIVATE	TEMPORARY CONSTRUCTION ( ACCESS RD)
ALBANY COUNTY	BETHLEHEM	108.00-1-13	FLACH PROPERTIES LLC	50899+72	50900+67	PRIVATE	PERMANENT
ALBANY COUNTY	BETHLEHEM	108.00-1-13	FLACH PROPERTIES LLC	50900+00	50900+67	PRIVATE	TEMPORARY CONSTRUCTION
ALBANY COUNTY	BETHLEHEM	107.00-1-29	FLACH PROPERTIES LLC	50883+00	50889+00	PRIVATE	TEMPORARY CONSTRUCTION (LAYDOWN AREA)
ALBANY COUNTY	BETHLEHEM	108.00-1-12	FLACH PROPERTIES LLC	50895+00	50898+00	PRIVATE	TEMPORARY CONSTRUCTION (LAYDOWN AREA)
ALBANY COUNTY	BETHLEHEM	108.00-1-13	FLACH PROPERTIES LLC	50899+00	50900+67	PRIVATE	TEMPORARY CONSTRUCTION (LAYDOWN AREA)

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SEGMENT 8 – CONSTRUCTION MATERIALS AND EQUIPMENT STAGING LOCATIONS AND WORK AREAS

TABLE 5-2. CONSTRUCTION MATERIALS AND EQUIPMENT STAGING LOCATIONS AND WORK AREAS		
STAGING AREA/WORK AREA	SHEET	LOCATION (APPROXIMATE –SEE APPENDIX C FOR FURTHER DETAILS)
HDD 71 Entry Work Area	C-101	STA 50005
HDD 71 Exit Work Area	C-102	STA 50024
HDD 72 Entry Work Area	C-103	STA 50043
HDD 72 Exit Work Area	C-104	STA 50049
Potential Muster Site	C-105	STA 50063
HDD 73 Entry Work Area	C-105	STA 50065
HDD 73 Exit Work Area	C-105	STA 50070
HDD 73.A and 74 Entry Work Area	C-107	STA 50100
Potential Muster Site	C-108	STA 50119
HHD 73.A and 74 Exit Work Area	C-109	STA 50120
HDD 75 Entry Work Area	C-110	STA 50145
HDD 75 Exit Work Area	C-111	STA 50154
HDD 75.A.A Entry Work Area	C-112	STA 50166
HDD 75.A.A Exit Work Area	C-112	STA 50177
HDD 75.A Entry Work Area	C-115	STA 50210
HDD 75.A Exit Work Area	C-116	STA 50234
HDD 75.B Entry Work Area	C-120	STA 50289
HDD 75.B Exit Work Area	C-120	STA 50298
HDD 76 and 76.A Entry Work Area	C-121	STA 50306
HDD 76 and 76.A Exit Work Area	C-122	STA 50328
HDD 77 Entry Work Area	C-123	STA 50333
HDD 77 Exit Work Area	C-124	STA 50347
HDD 78 Entry Work Area	C-126	STA 50382
HDD 78 Exit Work Area	C-127	STA 50403
HDD 79.B Entry Work Area	C-128	STA 50409
HDD 79.B Exit Work Area	C-129	STA 50422
HDD 80 Entry Work Area	C-130	STA 50441
HDD 80 Exit Work Area	C-131	STA 50462
HDD 80.A Entry Work Area	C-137	STA 50549
HDD 80.A Exit Work Area	C-139	STA 50572
HDD 81 Entry Work Area	C-139	STA 50577
HDD 81 Exit Work Area	C-140	STA 50589
HDD 82 and 83 Entry Work Area	C-140	STA 50598
HDD 82 and 83 Exit Work Area	C-142	STA 50616
HDD 83.A Entry Work Area	C-145	STA 50673
HDD 83.A Exit Work Area	C-146	STA 50680
HDD 84 Entry Work Area	C-146	STA 50687
HDD 84 Exit Work Area	C-147	STA 50698
HDD 84.A Entry Work Area	C-149	STA 50728
HDD 84.A Exit Work Area	C-150	STA 50739
HDD 84.B Entry Work Area	C-152	STA 50777
HDD 84.B Exit Work Area	C-153	STA 50788
HDD 85 Entry Work Area	C-154	STA 50806
HDD 85 Exit Work Area	C-155	STA 50824
HDD 87 Entry Work Area	C-156	STA 50830
HDD 87 Exit Work Area	C-157	STA 50844
HDD 87.A.A Entry Work Area	C-160	STA 50890
HDD 87.A.A Exit Work Area	C-160	STA 50897

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SEGMENT 8 – ACCESS ROADS

TABLE 4-6 – SEGMENT 8 ACCESS ROADS				
ACCESS ROAD/ROUTE NUMBER	TEMPORARY OR PERMANENT	SHEET	LOCATION (APPROXIMATE) –SEE DRAWINGS FOR DETAILS	SENSITIVE AREAS CROSSED (AG OR WETLANDS)
5A-01-RD	TEMPORARY	C-201	STA 50041	NONE
5A-03-RD	TEMPORARY	C-202	STA 50149	WETLAND
5A-04-RD	TEMPORARY	C-202	STA 50253	WETLAND
5A-05-RD	TEMPORARY	C-203 to C-205	STA 50345	WETLAND
5A-06-RD	TEMPORARY	C-206	STA 50333	WETLAND
5A-08-RD	TEMPORARY	C-207	STA 50371	WETLAND
5A-09-RD	TEMPORARY	C-207	STA 50473	WETLAND
5A-10-RD	TEMPORARY	C-208	STA 50550	AGRICULTURE, WETLAND
5A-11-RD	TEMPORARY	C-208	STA 50648	WETLAND
5A-12-RD	TEMPORARY	C-209	STA 50701	NONE
5A-13-RD	TEMPORARY	C-210	STA 50807	NONE
5A-14-RD	TEMPORARY	C-210	STA 50829	NONE
5A-15-RD	TEMPORARY	C-211	STA 50843	WETLAND
5A-01-RTE	TEMPORARY	C-212	STA 50057	NONE
5A-02-RTE	TEMPORARY	C-212	STA 50064	NONE
5A-03-RTE	TEMPORARY	C-213	STA 50084	NONE
5A-04-RTE	TEMPORARY	C-214	STA 50305	NONE
5A-06-RTE	TEMPORARY	C-215	STA 50383	NONE
5A-07-RTE	TEMPORARY	C-216	STA 50443	NONE
5A-08-RTE	TEMPORARY	C-217 through C-219	STA 50473	NONE
5A-09-RTE	TEMPORARY	C-220 and C-221	STA 50550	NONE
5A-10-RTE	TEMPORARY	C-222	STA 50616	NONE
5A-11-RTE	TEMPORARY	C-223	STA 50698	NONE
5A-12-RTE	TEMPORARY	C-224	STA 50898	NONE

TABLE 4-6 SUMMARIZES THE ACCESS ROADS IN THIS PACKAGE AND THEIR ASSOCIATED IMPACTS ON ENVIRONMENTALLY SENSITIVE AREAS AND AGRICULTURAL LANDS IF APPLICABLE. SECTION 4.10 OF THE EM&CP SUMMARIZES THE PROCEDURES THAT WILL BE FOLLOWED FOR THE CONSTRUCTION OF ALL ACCESS ROADS. ALL ACCESS ROADS WILL BE TEMPORARY AND RESTORED ACCORDING TO SECTION 14.2.4 AND 14.4.1 OF THE EM&CP AS APPLICABLE.

SEGMENT 8 – AGRICULTURAL LANDS

TABLE 7-1 AGRICULTURAL LANDS				
AGRICULTURAL LAND DESCRIPTION	PARCEL NUMBER	PLAN AND PROFILE (APPENDIX C) SHEET NUMBER	STATION (APPROXIMATE –SEE APPENDIX C FOR DETAILS)	ANTICIPATED IMPACTS TO AGRICULTURAL ACTIVITIES/LAND
AGRICULTURAL LAND #1	26.00-3-18	C-118 AND C-119	STA 50268+59 TO 50271+05	THE TRENCH CONSTRUCTION IS OUTSIDE OF THE REGULATED AGRICULTURAL AREA. GRADING WILL ONLY IMPACT THE EDGE OF THE AGRICULTURAL FIELD. ALL BMPs OUTLINED IN SECTION 7.1 AND RESTORATION REQUIREMENTS IN SECTION 14.5 WILL BE FOLLOWED.
AGRICULTURAL LAND #2	26.00-3-34	C-119 AND C-120	STA 50282+78 TO 50291+23	THE TRENCH CONSTRUCTION WILL ONLY IMPACT THE EDGE OF THE AGRICULTURAL FIELD. THE AGRICULTURAL TRENCH DETAIL ON SHEET C-621 WILL BE UTILIZED. THE HDD WORK AREA WILL UTILIZE ALL BMPs OUTLINED IN SECTION 7.1 AND RESTORATION REQUIREMENTS IN SECTION 14.5 WILL BE FOLLOWED.
AGRICULTURAL LAND #3	61.00-1-26.3	C-135	STA 50514+80 TO 50522+07	THE TRENCH CONSTRUCTION WILL ONLY IMPACT THE EDGE OF THE AGRICULTURAL FIELD. SPLICE LOCATION 171 WILL REMAIN AS CLOSE TO THE EDGE OF THE FIELD AS POSSIBLE. TOPSOIL WILL BE STRIPPED, AND THE AREA WILL BE GRAVELED OR TIMBER MATTING WILL BE USED. ALL BMPs OUTLINED IN SECTION 7.1 AND RESTORATION REQUIREMENTS IN SECTION 14.5 WILL BE FOLLOWED.
AGRICULTURAL LAND #4	61.00-1-29 AND 61.00-3-16.1	C-137	STA 50547+07 TO 50553+51	A VERY SMALL PORTION OF AN HDD WORK AREA IS WITHIN THE REGULATED AGRICULTURAL AREA. TEMPORARY ACCESS ROAD 5A-10-RD WILL UTILIZE TOPSOIL STRIPPING AND GRAVELLING OR TIMBER MATTING. ALL BMPs OUTLINED IN SECTION 7.1 AND RESTORATION REQUIREMENTS IN SECTION 14.5 WILL BE FOLLOWED.
AGRICULTURAL LAND #5	72.00-3-41.51	C-144	STA 50647+92 TO 50667+96	THE TRENCH CONSTRUCTION WILL ONLY IMPACT THE EDGE OF THE AGRICULTURAL FIELD. SPLICE LOCATION 176 AND THE ASSOCIATED WORK AREA WILL REMAIN AS CLOSE TO THE EDGE OF THE FIELD AS POSSIBLE. THE ACCESS ROAD COMING INTO THIS PORTION WILL BE STRIPPED AND GRAVELED OR USE TIMBER MATTING. ALL BMPs OUTLINED IN SECTION 7.1 AND RESTORATION REQUIREMENTS IN SECTION 14.5 WILL BE FOLLOWED.
AGRICULTURAL LAND #6	84.00-1-44.2 AND 95.00-3-1.1	C-151 AND C-152	STA 50754+87 TO 50773+24	ALL TRENCHING OCCURS OUTSIDE THE REGULATED AGRICULTURAL AREA. SPLICE LOCATION 180 AND ITS ASSOCIATED WORK AREA WILL REMAIN AS CLOSE TO THE EDGE OF THE FIELD AS POSSIBLE AND UTILIZE GRAVEL OR TIMBER MATTING. ALL BMPs OUTLINED IN SECTION 7.1 AND RESTORATION REQUIREMENTS IN SECTION 14.5 WILL BE FOLLOWED.
AGRICULTURAL LAND #7	95.00-3-5 AND 95.00-3-42	C-154	STA 50797+53 TO 50806+87	A TEMPORARY WORK AREA WILL BE THE ONLY IMPACT TO THE REGULATED AGRICULTURAL AREA AND WILL BE GRAVELED OR USE TIMBER MATTING. SPLICE LOCATION 181 WILL REMAIN AS CLOSE TO THE EDGE OF THE FIELD AS POSSIBLE. ANY GRADING WILL FOLLOW ALL BMPs OUTLINED IN SECTION 7.1 AND RESTORATION REQUIREMENTS IN SECTION 14.5 WILL BE FOLLOWED.



FOR INFORMATION, SEE ENVIRONMENTAL MANAGEMENT AND CONSTRUCTION PLAN NARRATIVE.

CHAMPLAIN HUDSON POWER EXPRESS  
SEGMENT 8 (PACKAGE 5A) - CSX: ROTTERDAM - BETHLEHEM  
EM&CP TABLES 3 OF 7

KIEWIT PROJECT NO.		21162
DRAWING NO.		<b>G-012</b>
DATE	06/09/2023	
SH.NO.	12	OF

No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
0	06/09/2023	ISSUED FOR CONSTRUCTION SUBMISSION		

DRAWN BY:	DESIGNED BY:	APPROVED BY:	SCALE	AS SHOWN	DATE
			REV. NO.	0	06/09/2023



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SEGMENT 8 – RECREATIONAL AREAS

TABLE 7-2 –RECREATIONAL AREAS			
MUNICIPALITY	RECREATIONAL AREA	SHEET	LOCATION (APPROXIMATE –SEE DRAWINGS FOR DETAILS)
VILLAGE OF VOORHEESVILLE	VOORHEESVILLE VILLAGE PARK	C-141	STA 50599 TO 50604
VILLAGE OF VOORHEESVILLE	ALBANY RAIL TRAIL	C-140	STA 50587

SEGMENT 8 – TERMS AND DEFINITIONS FROM BMP DOCUMENT SECTION 5.2

TABLE 8-1. TERMS AND DEFINITIONS FROM BMP DOCUMENT SECTION 5.2	
TERM	DEFINITION
CLEARING	THE CUTTING AND PHYSICAL REMOVAL, EITHER BY HAND OR MECHANICAL MEANS, OF ALL VEGETATION FROM THE WORK AREA
GRUBBING	THE MECHANICAL REMOVAL OF THE STUMP AND ROOT MASS OF FELLED WOODY VEGETATION
SLASH	SHRUBS, SAPLINGS, AND TOPS OF TREES 4 INCHES IN DIAMETER OR LESS AT THE LARGE END FOR HARDWOOD AND 6 INCHES IN DIAMETER OR LESS AT THE LARGE END FOR SOFTWOODS.
STUMPS	THE WOODY STEM AND FIBROUS ROOT MASS LEFT IN THE SOIL AFTER REMOVING THE TRUNK AT THE BUTT.
TIMBER/LOGS	TRUNKS AND LIMBS GREATER THAN 6 INCHES IN DIAMETER AT THE SMALL END, WITH A MINIMUM 8-FOOT LENGTH.

SEGMENT 8 – TREE AND VEGETATION CLEARING METHODS

TABLE 8-2. TREE AND VEGETATION CLEARING METHODS		
METHOD TYPE	METHOD TITLE	METHOD DESCRIPTION
TYPE I	HAND CUTTING (HC)	THIS METHOD EMPLOYS A HAND-HELD CHAIN SAW. IT IS SELECTIVE BUT IS SLOWER AND MORE EXPENSIVE THAN MOTORIZED MECHANICAL DEVICES. RESIDENTIAL AREAS, BUFFER ZONES, WETLANDS, AND HIGHWAY SCREENS ARE AREAS WHERE HAND CUTTING IS TYPICALLY PRESCRIBED. MECHANIZED TREE CLEARING WILL BE UTILIZED IN SELECT SCENARIOS WHERE HAND CLEARING IS DEEMED UNSAFE OR UNFEASIBLE. ALL MECHANIZED CLEARING IN WETLANDS WILL BE DONE UTILIZING APPROVED TEMPORARY WETLAND ACCESS METHODS (SEE SECTION 4.10.2).
TYPE II	MECHANICAL CLEARING MACHINE (HA)	THIS TERM USUALLY REFERS TO A MACHINE KNOWN AS THE HYDRO-AX OR KERSHAW MOWER. THIS MACHINE CAN CUT TREES UP TO TEN (10) INCHES IN DIAMETER AT THE RATE OF SEVERAL ACRES A DAY, DEPENDING ON STEM DENSITY AND TERRAIN. IT IS ESSENTIALLY NONSELECTIVE AND A GOOD DEVICE FOR CLEARING RIGHTS-OF-WAY THAT ARE COMPOSED OF YOUNG UNDESIRABLE SPECIES IN A RELATIVELY UNIFORM STAND.
TYPE III	MOWING	THIS TECHNIQUE IS PRIMARILY USED IN AREAS OF HERBACEOUS VEGETATION. TERRAIN MUST BE RELATIVELY FLAT WITH NO GULLIES OR ROCKS.
TYPE IV	MECHANICAL WHOLE-TREE FELLING EQUIPMENT	THIS METHOD ALLOWS CONTROLLED FELLING AND LOADING OF WHOLE TREES WHILE MINIMIZING DAMAGE TO ADJACENT TREES. WHERE VEGETATION IS CLEARED, EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED AND MONITORED UNTIL THE TOPSOIL IS STABILIZED AND CAN SUPPORT GRASSY VEGETATION.

NOTE: TABLE 8.4.1 SUMMARIZES THE LOCATION AND CLEARING TYPE THAT WILL OCCUR WITHIN THIS PACKAGE. SECTION 8.0 AND 8.1 OF THE EM&CP SUMMARIZES THE CLEARING METHODS AND PROCEDURES FOR VEGETATION AND TREE CLEARING AND REMOVAL INCLUDING STANDARDS AND SPECIFICATIONS FOR CLEARING IN ENVIRONMENTALLY SENSITIVE AREAS.

1. WETLANDS: SECTION 8.2.1 AND SECTION 9.1 OF THE EM&CP
2. STREAM CROSSING: SECTION 8.2.1 AND SECTION 9.1 OF THE EM&CP.
3. VISUALLY SENSITIVE AREAS SECTION 8.3.2 OF THE EM&CP
4. AGRICULTURAL LANDS: SECTION 8.2.2 OF THE EM&CP.

SEGMENT 8 – TREE AND VEGETATION DISPOSAL METHODS

TABLE 8-3. TREE AND VEGETATION DISPOSAL METHODS		
METHOD TYPE	METHOD TITLE	METHOD DESCRIPTION
TYPE A	CONSTRUCTION USE	LOGS MAY BE UTILIZED AS NEEDED DURING CONSTRUCTION FOR WETLAND ACCESS, CRIBBING, RETAINING WALLS, OR OTHER USES. FOLLOWING USE, ANY LOGS UNSUITABLE FOR FIREWOOD, SAW LOGS, OR CHIPPING WILL BE TRANSPORTED OFF THE RIGHT-OF-WAY TO AN APPROVED DISPOSAL SITE.
TYPE B	LOG PILES	LOGS NOT NEEDED FOR CONSTRUCTION WILL BE REMOVED FROM THE RIGHT-OF-WAY TO AN APPROVED DISPOSAL AREA.
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 RIGHT-OF-WAY OR TRANSPORTED OFF RIGHT-OF-WAY TO AN APPROVED DISPOSAL SITE. WOOD CHIPS WILL BE SPREAD THREE (3) TO FIVE (5) INCHES THICK WITH FERTILIZER SPREAD OVER THE CHIPS TO MINIMIZE SOIL NITROGEN DEPLETION DUE TO CELLULOSE DECOMPOSITION.
TYPE E	VEGETATION CHIPPING	VEGETATION MAY BE CHIPPED TO REDUCE DEBRIS VOLUME.
TYPE F	VEGETATION HAULING	VEGETATION AND STUMPS MAY BE HAULED TO A NYSDEC APPROVED LANDFILL OR OTHER SUITABLE OFF-SITE LOCATION WITH THE APPROVAL OF THE LANDOWNER AND ALL APPLICABLE PERMITTING AGENCIES.
TYPE G	VEGETATION BURIAL	STUMPS MAY BE BURIED ON THE RIGHT-OF-WAY WITH LANDOWNER AGREEMENT. THE BURIAL AREAS WILL BE SUFFICIENTLY COMPACTED AND MONITORED AFTER CONSTRUCTION TO ASSURE THAT SETTLING DOES NOT OCCUR. WHERE SIGNIFICANT SETTLING AFTER CONSTRUCTION HAS BEEN IDENTIFIED BY THE CONSTRUCTION INSPECTOR ET. AL., FINISHED GRADE WILL BE RE-ESTABLISHED USING LOCALLY OBTAINED RUN-OF-BANK MATERIAL AND/OR TOPSOIL AND RE-SEEDED AS APPROPRIATE AS SPECIFIED IN SECTIONS 14.2. AREAS WHERE SIGNIFICANT AMOUNTS OF STUMP BURIAL OCCURS WILL BE NOTED ON AS-BUILT DRAWINGS, AND MONITORED FOR SETTLING DURING ROW CONDITION SURVEYS AND MAINTENANCE ACTIVITIES.

NOTE:

1. SECTION 8.4 OF THE EM&CP SUMMARIZES THE TREE AND VEGETATION DISPOSAL PROCEDURES FOR THIS SEGMENT. NO BURNING OF ANY VEGETATIVE OR TREE DEBRIS IS PERMITTED WITHIN THE WORK AREAS OF THIS SEGMENT. ALL APPLICABLE NYSDEC REGULATIONS REGARDING INVASIVE SPECIES WILL BE FOLLOWED WHEN DISPOSING OF VEGETATION.

TABLE 8-4 VEGETATION AND TREE CLEARING LOCATIONS			
SHEET	LOCATION (APPROXIMATE –SEE APPENDIX C FOR DETAILS)	CLEARING METHOD TYPE	ENVIRONMENTALLY SENSITIVE AREA(S)
C-401	STA 50022 TO 50030	TYPE I	NONE
C-402	STA 50030 TO 50043	TYPE IV	NONE
C-402	STA 50052 TO 50059	TYPE I	NONE
C-403	STA 50060 TO 50064	TYPE I	NONE
	STA 50070 TO 50074		
C-403	STA 50075 TO 50090	TYPE I	WETLAND
C-404	STA 50090 TO 50100	TYPE IV	NONE
C-404	STA 50119	TYPE IV	NONE
C-405	STA 50121 TO 50123+50	TYPE IV	NONE
C-405	STA 50126 TO 50132	TYPE I	WETLAND
C-405	STA 50132 TO 50135	TYPE IV	NONE
C-405	STA 50135 TO 50137	TYPE I	WETLAND
C-405	STA 50137 TO 50139	TYPE IV	NONE
C-405	STA 50139 TO 50149	TYPE I	WETLAND
C-406	STA 50154 TO 50165	TYPE I	WETLAND
C-406	STA 50165 TO 50168+50	TYPE I	WETLAND
C-406	STA 50176 TO 50180	TYPE I	WETLAND
C-407	STA 50180 TO 50195	TYPE I	WETLAND
C-407	STA 50195 TO 50210	TYPE I AND IV	WETLAND
C-408	STA 50233 TO 50240	TYPE IV	NONE
C-409	STA 50240 TO 50255	TYPE I AND IV	WETLAND
C-409	STA 50255 TO 50270	TYPE I AND IV	WETLAND
C-410	STA 50270 TO 50285	TYPE I AND IV	WETLAND
C-410	STA 50285 TO 50291	TYPE IV	NONE
C-410	STA 50298 TO 50300	TYPE I AND IV	WETLAND
C-411	STA 50300 TO 50307	TYPE I AND IV	WETLAND
C-411	STA 50327+50 TO 50330	TYPE I	WETLAND
C-412	STA 50330 TO 50345	TYPE I AND IV	WETLAND
C-412	STA 50345 TO 50360	TYPE I AND IV	WETLAND
C-413	STA 50360 TO 50361	TYPE IV	NONE
C-413	STA 50364 TO 50375	TYPE IV	NONE
C-413	STA 50375 TO 50381	TYPE I AND IV	WETLAND
C-415	STA 50424 TO 50435	TYPE I	WETLAND
C-415	STA 50435 TO 50443	TYPE I	WETLAND
C-416	STA 50461+50 TO 50465	TYPE I	WETLAND
C-416	STA 50465 TO 50478	TYPE I	WETLAND

SEGMENT 8 – VEGETATION AND TREE CLEARING LOCATIONS

TABLE 8-4 VEGETATION AND TREE CLEARING LOCATIONS			
SHEET	LOCATION (APPROXIMATE –SEE APPENDIX C FOR DETAILS)	CLEARING METHOD TYPE	ENVIRONMENTALLY SENSITIVE AREA(S)
C-417	STA 50493 TO 50494	TYPE I	WETLAND
C-417	STA 50497	TYPE I	WETLAND
C-417	STA 50499 TO 50510	TYPE I	WETLAND
C-418	STA 50510 TO 50525	TYPE I	WETLAND, AGRICULTURE
C-418	STA 50525 TO 50540	TYPE I AND IV	WETLAND
C-419	STA 50540 TO 50552	TYPE I AND IV	WETLAND, AGRICULTURE
C-420	STA 50572 TO 50579	TYPE IV	NONE
C-420	STA 50588 TO 505600	TYPE IV	NONE
C-421	STA 50600 TO 50601	TYPE IV	NONE
C-421	STA 50616 TO 50630	TYPE IV	NONE
C-422	STA 50630 TO 50645	TYPE IV	NONE
C-422	STA 50645 TO 50660	TYPE IV	AGRICULTURE
C-423	STA 50660 TO 50675	TYPE I AND IV	WETLAND
C-423	STA 50675 TO 50690	TYPE I AND IV	WETLAND
C-424	STA 50690; 50698 TO 50705	TYPE IV	NONE
C-424	STA 50705 TO 50720	TYPE I AND IV	WETLAND
C-425	STA 50720 TO 50735	TYPE I AND IV	WETLAND
C-425	STA 50735 TO 50750	TYPE I	WETLAND
C-426	STA 50750 TO 50764	TYPE I AND IV	WETLAND
C-426	STA 50765 TO 50780	TYPE I AND IV	WETLAND
C-427	STA 50788 TO 50795	TYPE IV	NONE
C-427	STA 50795 TO 50810	TYPE I AND IV	WETLAND, AGRICULTURE
C-428	STA 50810; 50823 TO 50825	TYPE I AND IV	NONE
C-428	STA 50825 TO 50833	TYPE I	NONE
C-429	STA 50843 TO 50855	TYPE I AND IV	WETLAND
C-429	STA 50855 TO 50860	TYPE I AND IV	WETLAND
C-430	STA 50870 TO 50885	TYPE I AND IV	WETLAND
C-430	STA 50885 TO 50886; 50897 TO 50900	TYPE I AND IV	WETLAND
C-202	5A-03-RD	TYPE IV	NONE
C-202	5A-04-RD	TYPE I	WETLAND
C-203 TO C-205	5A-05-RD	TYPE I AND IV	WETLAND
C-206	5A-06-RD	TYPE IV	NONE
C-208	5A-10-RD	TYPE I AND IV	WETLAND
C-210	5A-13-RD	TYPE I AND IV	NONE
C-210	5A-14-RD	TYPE I	WETLAND
C-211	5A-15-RD	TYPE I	WETLAND

A

B



FOR INFORMATION, SEE ENVIRONMENTAL MANAGEMENT AND CONSTRUCTION PLAN NARRATIVE.

0	06/09/2023	ISSUED FOR CONSTRUCTION SUBMISSION			
No.	DATE	SUBMITTAL / REVISION DESCRIPTION		DB	APP

CHAMPLAIN HUDSON POWER EXPRESS  
SEGMENT 8 (PACKAGE 5A) - CSX: ROTTERDAM - BETHLEHEM  
EM&CP TABLES 4 OF 7

DRAWN BY:	DESIGNED BY:	APPROVED BY:	SCALE	AS SHOWN	DATE
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KIEWIT PROJECT NO. 21162	
DRAWING NO. <b>G-013</b>	
DATE	06/09/2023
SH.NO.	13 OF















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CLEANUP AND RESTORATION NOTES

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

CLEANUP STANDARDS AND PRACTICES

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

RESTORATION AND PLANTING

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

SITE PREPARATION FOR REVEGETATION

THE SURFACE OF THE ROAD AND CONSTRUCTION ROWS DISTURBED BY CONSTRUCTION ACTIVITIES WILL BE GRADED TO MATCH THE ORIGINAL TOPOGRAPHIC CONTOURS AND TO BE COMPATIBLE WITH SURROUNDING DRAINAGE PATTERNS WHERE APPROPRIATE OR IN ACCORDANCE WITH THE EM&CP. IT SHOULD BE NOTED THAT SUBCONTRACTORS WILL TYPICALLY LIMIT GRUBBING (THE REMOVAL OF STUMPS AND ROOTS) TO THE FOOTPRINT OF THE EXCAVATED TRENCH AND ACCESS ROADS TO ALLOW RE-SPROUTING AND ASSIST IN THE RECOVERY OF WOODY SPECIES, EXCEPT WHERE REMOVAL IS REQUIRED FOR SAFE CONSTRUCTION. WHERE NEEDED, IT MAY BE NECESSARY TO IMPORT TOPSOIL TO RETURN AN AREA TO GRADE. IMPORTED TOPSOIL WILL FOLLOW CLASSIFICATION AND CHARACTERIZATION MEASURES OUTLINED IN THE SOIL MANAGEMENT PLAN IN APPENDIX L. HDD ENTRY AND EXIT PITS WILL BE BACKFILLED AND THE DISTURBED GROUND SURFACE WILL BE SIMILARLY GRADED. TRENCHES WILL BE BACKFILLED IN ACCORDANCE WITH THE MEASURES OUTLINED IN SECTION 4.4.7 OF THE EM&CP. THE CERTIFICATE HOLDER WILL BE RESPONSIBLE FOR WILL CHECKING ALL CULVERTS AND ASSURE THAT THEY ARE NOT CRUSHED OR BLOCKED DURING CONSTRUCTION AND RESTORATION OF THIS SEGMENT AND, IF A CULVERT IS BLOCKED OR CRUSHED, TAKE IMMEDIATE STEPS TO REPLACE OR REPAIR THE CULVERT IN ACCORDANCE WITH APPLICABLE STATE OR LOCAL STANDARDS.

SEEDING AND PLANTING

SEEDING OPERATIONS WILL COMMENCE ONLY AFTER AN ACCEPTABLE SEEDBED HAS BEEN ESTABLISHED. SEED WILL BE APPLIED BY HAND, CYCLONE SEEDER, DRILL, OR CULTI-PACKER-TYPE SEEDER AT A DEPTH OF 0.25 TO 0.5 INCH. THE SEEDBED WILL BE FIRMED FOLLOWING SEEDING OPERATION WITH A ROLLER OR LIGHT DRAG, EXCEPT WHERE CULTI-PACKER-TYPE SEEDERS OR HYDROSEEDERS ARE USED. THE ENTIRE SEEDED AREA WILL BE WATERED WITH A FINE SPRAY UNTIL A UNIFORM MOISTURE DEPTH OF ONE (1) INCH HAS BEEN ACHIEVED. MULCHING AND ANCHORING OF THE MULCH MAY BE NECESSARY IN SOME AREAS UNLESS A HYDROMULCH/SEED SLURRY IS USED. ON STEEP SLOPES, JUTE NET WILL BE USED TO PROVIDE STABILIZATION. FERTILIZER WILL BE ADDED AT THE APPROPRIATE RATES AFTER SEED IS APPLIED. NO FERTILIZER WILL BE APPLIED IN WETLAND RESOURCE AREAS. SEEDING/MULCHING WILL TAKE PLACE UNDER THE SUPERVISION OF THE ENVIRONMENTAL INSPECTOR.

THE SEED MIXTURE AND RATE OF APPLICATION WILL DEPEND ON THE SOIL TYPE, LAND USE, AVAILABLE MOISTURE, AND SEASON AT THE TIME OF APPLICATION. SEEDBED PREPARATION (FINAL TILLAGE, FERTILIZING, LIMING) AND SEEDING WILL FOLLOW RECOMMENDATIONS AS CONTAINED IN NEW YORK STATE FARMLAND: SEEDING, FERTILIZING AND LIME RECOMMENDATIONS FOR GAS PIPELINE ROW RESTORATION IN FARMLANDS (REVISED 4-27-2011) IF APPLICABLE OR AS SPECIFIED BY THE LANDOWNER. ALL SEED MIXES WILL BE FREE OF INVASIVE SPECIES. ALL SEED BAG TAGS (EITHER ORIGINAL OR SCANNED COPIES) WILL BE PROVIDED TO THE ENVIRONMENTAL INSPECTOR EITHER ORIGINAL TAGS OR SCANNED COPIES. THE SEED MIXTURES WILL FOLLOW THE TECHNICAL SPECIFICATIONS INCLUDED ON THE PLAN AND PROFILE DRAWINGS IN APPENDIX C FOR UPLANDS AND WETLAND BUFFER ZONES. SEEDED AREAS WILL BE MONITORED FOLLOWING RESTORATION UNTIL A MINIMUM VEGETATIVE COVER OF EIGHTY (80) PERCENT IS ACHIEVED.

WHERE TREE OR SHRUB PLANTINGS ARE PRESCRIBED IN THE EM&CP, A POST-CONSTRUCTION SURVIVAL SURVEY WILL BE PERFORMED ONE YEAR AFTER THE PLANTINGS. IF ANY TREE OR SHRUB HAS NOT SURVIVED OR IS IN POOR HEALTH, THE TREE/SHRUB WILL BE REPLACED (BMP DOCUMENT SECTION 11.1.2.5).

VEGETATION THROUGHOUT THE TEMPORARY ROW WILL BE CUT TO GROUND LEVEL AND ROOT SYSTEMS WILL REMAIN INTACT TO ALLOW FOR RESPROUTING FOLLOWING CONSTRUCTION, UNLESS RESPROUTING WOULD INTERFERE WITH THE SAFE AND RELIABLE OPERATION OF THE PROJECT.

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

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

RESTORATION OF WATERBODIES

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

RESTORATION OF WETLANDS

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

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

FOR WETLAND RESOURCE AREAS, EMERGENT COMMUNITIES SHOULD BE REVEGETATED WITH AN ERNST FACW WETLAND MEADOW MIX (ERNMX-122) OR EQUIVALENT, AND FOR SHADED SITES WITHIN FORESTED/SHRUB-SHRUB WETLAND COMMUNITIES, DISTURBED AREAS SHOULD BE REVEGETATED WITH ERNST SPECIALIZED WETLAND MIX FOR SHADED AREAS (ERNMX-137) OR EQUIVALENT (SHOWN ON PLAN AND PROFILE DRAWINGS, APPENDIX C).

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

THE CONSTRUCTION MATERIALS EQUIPMENT STAGING LOCATIONS FOR THIS SEGMENT ARE SUMMARIZED IN SECTION 5.4 TABLE 5.2 OF THE EM&CP AND ARE SHOWN IN THE PLAN AND PROFILE DRAWINGS AND ESPC. THESE AREAS WILL BE RESTORED AS CLOSE AS PRACTICABLE TO PRE-CONSTRUCTION CONDITIONS AND CONTOURS TO THE EXTENT PRACTICABLE.

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

PLANT INSPECTION, GUARANTEE AND MAINTENANCE

VEGETATION RESTORATION ALSO INCLUDES THE MAINTENANCE OF PLANTINGS FOR SPECIFIED TIME PERIODS AND THE REPLACEMENT OF UNSUCCESSFUL PLANTINGS. PRIOR TO PLANTING, THE ENVIRONMENTAL INSPECTOR WILL INSPECT ALL PLANTS IN CONTAINERS. PLANTINGS WILL BE PERFORMED BY A QUALIFIED LANDSCAPE OR NURSERY CONTRACTOR. THE ENVIRONMENTAL INSPECTOR WILL ALSO INSPECT ALL PLANTS AFTER COMPETITION OF PLANTING TO ENSURE PROPER PLANTING PROCEDURES AND THE CORRECT PLANT SPECIES WERE USED. ADDITIONALLY, THE ENVIRONMENTAL INSPECTOR WILL CONDUCT A FINAL INSPECTION OF ALL REVEGETATED AREAS AFTER THE END OF THE MONITORING PERIOD TO ENSURE FINAL STABILIZATION. ALL VEGETATION REPLACED WILL HAVE A MINIMUM TWO -YEAR SURVIVAL GUARANTEE (BMP DOCUMENT SECTION 11.2.2). WHERE TREE OR SHRUB PLANTINGS ARE NEEDED, A POST-CONSTRUCTION SURVIVAL SURVEY WILL BE PERFORMED ONE YEAR AFTER THE PLANTINGS. IF ANY TREE OR SHRUB HAS NOT SURVIVED OR IS IN POOR HEALTH, THE TREE/SHRUB WILL BE REPLACED (BMP DOCUMENT SECTION 11.2.1.5).

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

RESTORATION WITHIN NYSDOT ROW

ALL RESTORATION WITHIN THE NYSDOT ROW SHALL BE DONE IN ACCORDANCE WITH THE LATEST VERSION OF THE NYSDOT STANDARD SPECIFICATIONS AND STANDARD SHEET AND ARE INCLUDED IN EM&CP SECTION 14.2.2 (BMP DOCUMENT SECTION 11.2.2).

RESTORATION OF RECREATIONAL AREAS

FOLLOWING CONSTRUCTION, THE CERTIFICATE HOLDERS WILL RESEED THE CONSTRUCTION AREA WITHIN RECREATIONAL AREAS SUCH AS THE CANALS USING THE PROCEDURES AND METHODS SPECIFIED IN THE SECTIONS ABOVE WHERE NEEDED. IF NECESSARY, ADDITIONAL REVEGETATION AND TREE PLANTING MAY BE PERFORMED DEPENDING ON THE IMPACT OF CONSTRUCTION. RECREATIONAL AREAS ARE DESCRIBED IN SECTION 7.2 OF THE EMCP.

ROADWAY RESTORATION (STRIPPING, SIGNAGE, AUDIBLE ROADWAY DELINEATORS)

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

RESTORATION OF ROADWAY

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

RESTORATION OF ROADWAY SHOULDER

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

PAVEMENT RESTORATION

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

THE CERTIFICATE HOLDERS WILL CONSULT THE MUNICIPAL ROAD OR HIGHWAY DEPARTMENT AND/OR THE REGIONAL OFFICE, OR COUNTY ENGINEER OF THE NYSDOT IN ORDER TO IDENTIFY AND INCORPORATE APPROPRIATE SPECIFICATIONS FOR CURB, SIDEWALK, OR STREET RESTORATION. ALL SURFACE RESTORATION WILL FOLLOW THE SPECIFICATIONS AND DETAILS PROVIDED IN THE PLAN AND PROFILE DRAWINGS (SHEET C-631). GUIDE RAILS WILL BE REMOVED AND REPLACED IN ACCORDANCE WITH NYSDOT STANDARD SHEET 606-01. COUNTY/LOCAL ROADS WILL BE RESTORED UNDER A DIFFERENT COUNTY RESTORATION REQUIREMENT AS SHOWN IN THE PLAN AND PROFILE DRAWINGS (SHEET C-631).

SEED MIXES

- A. GENERAL SEED:
  - 1. PIPELINE MIX W/SWITCHGRASS (ERNMX-102-1)
  - 2. MIX COMPOSITION
    - 33.0% PANICUM VIRGATUM, 'SHAWNEE' (SWITCHGRASS, 'SHAWNEE')
    - 25.0% FESTUCA RUBRA (CREEPING RED FESCUE)
    - 18.0% LOLIUM MULTIFLORUM (ANNUAL RYEGRASS)
    - 16.0% PHLEUM PRATENSE, CLIMAX (TIMOTHY, CLIMAX)
    - 5.0% TRIFOLIUM HYBRIDUM (ALSIKE CLOVER)
    - 3.0% AGROSTIS ALBA (REDTOP)
  - 3. APPLIED AT A RATE OF 40 LBS/ACRE.
- B. ADIRONDACK SEED:
  - 1. MIX COMPOSITION
    - 25% VIRGINIA WILD RYE (ELYMUS VIRGINICUS VAR. VIRGINICUS)
    - 25% CANADA WILD RYE (ELYMUS CANADENSIS)
    - 25% AUTUMN BENTGRASS (AGROSTIS PERENNANS)
    - 25% CAMPER LITTLE BLUESTEM (SCHIZACHYRIUM SCOPARIUM)
  - 2. APPLIED AT A RATE OF 40 LBS/ACRE.
- C. SPECIALIZED WETLAND MIX FOR SHADED OBL-FACW AREAS (ERNMX-137)
  - 1. MIX COMPOSITION
    - 35.0% CAREX VULPINOIDEA, PA ECOTYPE (FOX SEDGE, PA ECOTYPE)
    - 20.0% ELYMUS VIRGINICUS, MADISON-NY ECOTYPE (VIRGINIA WILD RYE, 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 INTUMESCENTS, 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 WILD RYE, 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% MINULUS RINGENS, PA ECOTYPE (SQUARE STEMMED MONKEYFLOWER, PA ECOTYPE)
    - 0.3% LOBELIA SIPHILITICA, PA ECOTYPE (GREAT BLUE LOBELIA, PA ECOTYPE)
    - 0.3% SCIRPUS CYPERINUS, PA ECOTYPE (WOOLGRASS, PA ECOTYPE)
    - 0.2% ALISMA SUBCORDATUM, PA ECOTYPE (MUD PLANTAIN, PA ECOTYPE)
    - 0.2% ASTER PUNICEUS, PA ECOTYPE (PURPLESTEM ASTER, PA ECOTYPE)
    - 0.2% ASTER UMBELLATUS, PA ECOTYPE (FLAT TOPPED WHITE ASTER, PA ECOTYPE)
    - 0.1% PENTHORUM SEDOIDES, PA ECOTYPE (DITCH STONECROP, PA ECOTYPE)
  - 2. APPLIED AT A RATE OF APPROXIMATELY 20 LBS/ACRE, ALONG WITH THE COVER CROP.
  - 3. COVER CROP SHOULD BE APPLIED AT A RATE OF 60-80 LBS/ACRE. COVER CROP TO BE AN ANNUAL RYE. COVER CROP BASED ON SEASON OF RESTORATION AN ANNUAL RYE THROUGH SPRING AND SUMMER AND WINTER RYE FOR LATE FALL.
- E. LAWN MIX: USE AN ERNST SEED MIX, SUCH AS ATHLETIC FIELD MIX OR SIMILAR.

CHAMPLAIN HUDSON POWER EXPRESS  
SEGMENT 8 (PACKAGE 5A) - CSX: ROTTERDAM - BETHLEHEM  
RESTORATION NOTES

KIEWIT PROJECT NO. 21162	
DRAWING NO.	
G-020	
DATE	06/09/2023
SH.NO.	17 OF

SCALE	AS SHOWN				
REV. NO.	0				

DRAWN BY:	DESIGNED BY:	APPROVED BY:
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FOR INFORMATION, SEE  
ENVIRONMENTAL MANAGEMENT  
AND CONSTRUCTION PLAN NARRATIVE.

