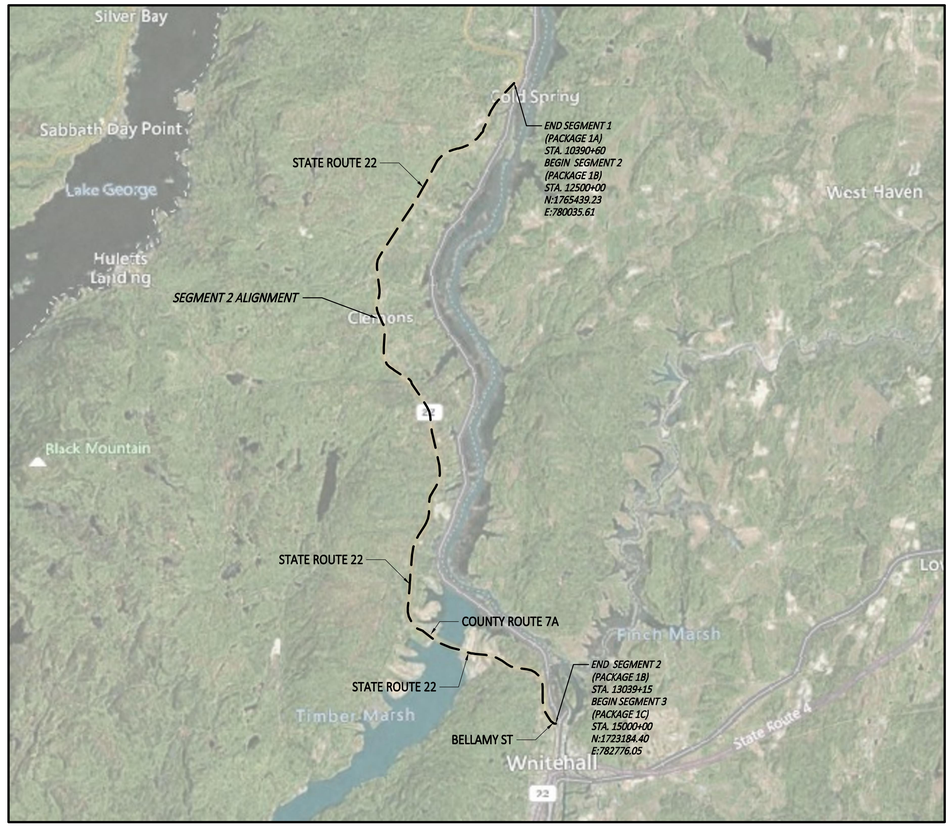
CHAMPLAIN HUDSON POWER EXPRESS

SEGMENT 2 (PACKAGE 1B) - DRESDEN TO WHITEHALL

WASHINGTON COUNTY, NEW YORK

FINAL EM&CP SUBMISSION

(SEPTEMBER 21, 2022)



SITE LOCATION MAP
SCALE: 1"=5000'

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CHPE Champlain Hudson Power Express

Kiewit

CHA
III Winners Circle, PO Box 5269
Albany, NY 12205-0269
518.453.4500 . www.chacompanies.com

STATE OF NEW YORK · JOSEPH P. ROMANO · 081993 · LICENSED PROFESSIONAL ENGINEER
09/18/2022

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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 2 - ROUTE 22: DRESDEN - WHITEHALL

COVER SHEET

KIEWIT PROJECT NO.	21162
CHA PROJECT NO.	066076
DRAWING NO.	G-000

DRAWN BY: JTM | DESIGNED BY: JTM | APPROVED BY: JPR | SCALE AS NOTED | REV. NO. X | DATE 09/21/2022 | SH.NO. XXX OF XXX

File: V:\PROJECTS\ANY\K6\066076.000\09_DESIGN\DRAWINGS\01_SHEETS\DESIGN PACKAGE 1\DESIGN PACKAGE 1B\066076_P1B - G-000 COVER SHEET.DWG Saved: 9/18/2022 8:53:55 AM Plotted: 9/18/2022 3:38:25 PM Current User: Bouillon, Hugo LastSavedBy: 3042

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SHEET INDEX

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. G-001

DRAWN BY: JTM | DESIGNED BY: JTM | APPROVED BY: JPR | SCALE AS NOTED | REV. NO. X | DATE 09/21/2022 | SH.NO. XXX OF XXX

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GENERAL NOTES:

1. THE PLANS SHOW SUBSURFACE STRUCTURES, ABOVE GROUND STRUCTURES AND/OR UTILITIES FROM FIELD LOCATION AND RECORD MAPPING, EXACT LOCATION OF WHICH MAY VARY FROM THE LOCATIONS INDICATED. IN PARTICULAR, THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATION OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY BE DIFFERENT FROM THAT SHOWN OR MAY NOT BE SHOWN, AND IT SHALL BE HIS RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK. 48 HOURS BEFORE YOU DIG, DRILL, OR BLAST, CALL U.F.P.O. 1-(800)-962-7962 TOLL FREE.

2. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED APPROVAL OF THE ENGINEER. CHANGES TO THE PLAN SHALL BE DONE IN ACCORDANCE WITH THE EM&CP SECTION 3.2.6.

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

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

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

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

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

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

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

10. THE CONTRACTOR SHALL:

    A. VERIFY ALL CONDITIONS IN THE FIELD PRIOR TO COMMENCEMENT OF WORK AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
    B. EXAMINE THE SITE AND INCLUDE IN HIS WORK THE EFFECT OF ALL EXISTING CONDITIONS ON THE WORK.
    C. PROVIDE AND INSTALL ALL MATERIALS AND PERFORM ALL WORK IN ACCORDANCE WITH RECOGNIZED GOOD STANDARD PRACTICE.

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

12. CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF WORK IN CONFORMANCE WITH REFERENCE SECTION 4.3.2 DEWATERING METHODS IN THE EM&CP. CONTRACTOR SHALL MAINTAIN EXISTING SITE DRAINAGE PATTERNS THROUGHOUT CONSTRUCTION UNLESS OTHERWISE SHOWN ON THE PLANS.

13. MAINTAIN FLOW FOR ALL EXISTING UTILITIES.

14. ALL FRAMES AND COVER TO BE SET AT ELEVATIONS CONSISTENT WITH THE PROJECT DETAILS.

15. TEMPORARY PAVEMENT SHALL BE PLACED WITHIN 48 HOURS OF COMPLETION OF BACKFILL OPERATIONS WITHIN THE EXISTING PAVEMENT LIMITS.

16. CONTRACTOR SHALL MAINTAIN ALL TRAFFIC IN ALL AREAS IN ACCORDANCE WITH THE NYSDOT MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

17. ALL EXCAVATIONS SHALL BE PROTECTED AT THE END OF EACH WORK DAY PER OSHA AND NYSDOT REQUIREMENTS.

18. WITHIN NYSDOT ROW ALL OPEN EXCAVATIONS TO BE PROTECTED BY CONCRETE BARRIERS OR BE COVERED BY A STEEL PLATE, 3/4" THICK MINIMUM. A SINGLE PLATE SHOULD COVER THE ENTIRE EXCAVATION AND HAVE ENOUGH BEARING ON SURROUNDING SURFACES TO SUPPORT A VEHICLE.

19. CONTRACTOR SHALL TAKE CARE TO PREVENT DAMAGE TO EXISTING UTILITIES. UTILITIES DAMAGED BY CONTRACTOR SHALL BE IMMEDIATELY REPAIRED BY CONTRACTOR AT THE CONTRACTOR'S EXPENSE. IF DURING EXCAVATION PREVIOUSLY DAMAGED UTILITIES ARE UNCOVERED, CONTRACTOR SHALL DOCUMENT THE DAMAGE AND REPORT DAMAGE TO THE APPROPRIATE OWNER.

20. DEPTH OF BURY FOR EXISTING CABLED UTILITIES FIBER / ELECTRICAL / TELECOM AND WATERLINES UNKNOWN. ASSUMED DEPTH OF BURY FOR CABLED UTILITIES IS 30" UNLESS OTHERWISE SHOWN. ASSUMED DEPTH OF BURY FOR WATERLINES IS 5' UNLESS OTHERWISE SHOWN.

21. CONTRACTOR TO COORDINATE ALL DRIVEWAY CROSSINGS WITH THE PROPERTY OWNERS PRIOR TO EXCAVATING. ACCESS TO ALL DRIVEWAYS FOR THE RESIDENTS AND COMMERCIAL PROSPERITIES WILL NEED TO BE MAINTAINED DURING THE PROJECT. ALL EXCAVATIONS IN THE ENTRANCES/DRIVEWAYS WILL NEED TO BE BACKFILLED AT THE END OF EACH WORKDAY, OR STEEL PLATES SHALL BE INSTALLED TO ALLOW ACCESS DURING CONSTRUCTION. REFER TO THE EM&CP FOR EMERGENCY ACCESS MANAGEMENT PLAN.

22. ALL WORK WITHIN AGRICULTURAL LANDS WILL BE PERFORMED IN COMPLIANCE WITH APPLICABLE NEW YORK STATE DEPARTMENT OF AGRICULTURE AND MARKETS (NYSDAM) GUIDANCE INCLUDING "NYSDAM GUIDELINES FOR CONSTRUCTION MITIGATIONS FOR AGRICULTURAL LANDS IN AGRICULTURAL AREAS". RESTORATION WORK WILL FOLLOW APPLICABLE SECTIONS OF NYSDAM GUIDANCE "FERTILIZING LIME, AND SEEDING RECOMMENDATIONS FOR RESTORATION OF CONSTRUCTION PROJECTS ON FARMLAND IN NYS".

23. SERVICE CONNECTIONS TO BE FIELD LOCATED PRIOR TO CONSTRUCTION.

24. REFER TO EM&CP DOCUMENT FOR ADDITIONAL ITEMS FOR ALL GENERAL NOTES.

EROSION CONTROL NOTES

1. SEE C-400 SERIES OF SHEETS FOR EROSION AND SEDIMENT CONTROL SHEETS.

2. LAND DISTURBING ACTIVITIES SHALL NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN RECEIVED BY GOVERNING AUTHORITIES.

3. THE GENERAL CONTRACTOR SHALL STRICTLY ADHERE TO THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND FOLLOW THE EM&CP DOCUMENTS DURING CONSTRUCTION OPERATIONS.

4. NO LAND CLEARING OR GRADING SHALL BEGIN UNTIL ALL PERIMETER EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED. (WETLAND PROTECTION FENCE, SILT FENCE AND STABILIZED CONSTRUCTION ENTRANCE)

5. SITE DISTURBANCE SHALL NOT EXCEED FIVE (5) ACRES OF SOIL AT ANY ONE TIME WITHOUT PRIOR WRITTEN AUTHORIZATION FROM NYSDEC DIVISION OF WATER.

6. ALL EXPOSED AREAS SHALL BE SEEDED AND MULCHED AS SPECIFIED WITHIN 14 DAYS OF FINAL GRADING. FOR DISTURBED WETLAND AND SENSITIVE AREAS, AREA TO BE RESTORED IN ACCORDANCE WITH THE EM&CP SECTIONS 8.1 AND 13.

7. INACTIVE PORTIONS OF THE SITE ARE TO BE SEEDED AND MULCHED AS SPECIFIED WITHIN 14 DAYS. FOR DISTURBED WETLAND AND SENSITIVE AREAS, AREA TO BE RESTORED IN ACCORDANCE WITH THE EM&CP 8.1 AND 13.

8. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN (7) DAYS OR MORE FREQUENTLY IF REQUIRED. ALL MAINTENANCE REQUIRED BY INSPECTION SHALL COMMENCE WITHIN 24 HOURS AND BE COMPLETED WITHIN 48 HOURS OF REPORT.

9. THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE GENERAL CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE.

10. GENERAL CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.

11. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY FOLLOWING SITE INSPECTION. THE SWPPP AND/OR ENVIRONMENTAL INSPECTOR HAS THE AUTHORITY TO REQUIRE ADDITIONAL EROSION CONTROL MEASURES IF THE INSPECTOR DEEMS NECESSARY.

12. GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO TAKE REASONABLE MEANS NECESSARY TO ESTABLISH PERMANENT SOIL STABILIZATION.

13. AT THE END OF EACH WORK DAY DISTURBED SOILS ARE TO BE REGRADED TO DRAIN INTO THE TEMPORARY DIVERSION SWALES AND DISCHARGES FROM DEWATERING ACTIVITIES ARE TO BE DIRECTED INTO CATCH BASINS OR SWALES.

14. CONCRETE WASHOUTS DEPICTED ON PLANS ARE FOR REFERENCE ONLY. CONTRACTOR TO FIELD LOCATE WASHOUTS AS NECESSARY. FIELD LOCATED WASHOUTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE EM&CP AND SHALL BE A MINIMUM OF 100' FROM ADJACENT WETLANDS AND 200' FROM ANY EXISTING WELLS.

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GENERAL NOTES

KIEWIT PROJECT NO.	21162
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DRAWING NO.	G-002
SCALE	AS NOTED
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NYSDOT NOTES

1. MAINTAIN EXISTING GUIDE RAIL, MEDIAN BARRIER, AND BRIDGE RAIL. WHEN CONSTRUCTION OPERATIONS REQUIRE THE TEMPORARY REMOVAL OF EXISTING BRIDGE RAIL, GUIDE RAIL OR MEDIAN BARRIER; OR WHEN EXISTING RAIL WILL BE REMOVED AND REPLACED WITH NEW RAIL, THE CONTRACTOR SHALL SCHEDULE OPERATIONS TO MINIMIZE THE TIME PERIOD THAT RAIL IS NOT INSTALLED.

2. UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS, GUIDE RAIL OR MEDIAN BARRIER SHALL BE REPLACED OR THE LOCATION OTHERWISE PROTECTED WITHIN 14 CALENDAR DAYS. BRIDGE RAIL SYSTEMS SHALL BE MAINTAINED IN SERVICE AT ALL TIMES ON ANY STRUCTURE ON WHICH VEHICLE OR PEDESTRIAN TRAFFIC IS MAINTAINED, UNLESS A TEMPORARY BARRIER IS INSTALLED, OR OTHER MEANS ARE USED TO ENSURE THAT VEHICLES, BICYCLISTS AND PEDESTRIANS ARE NOT EXPOSED TO THE UNPROTECTED EDGE OF A BRIDGE.

3. DURING NON-WORK HOURS WHEN TRAFFIC IS BEING MAINTAINED ON THE FACILITY, ALL TEMPORARY ENDS (FREE ENDS) OF GUIDE RAIL, MEDIAN BARRIER AND BRIDGE RAIL SHALL BE TEMPORARILY TERMINATED AND MARKED WITH A CHANNELIZING DRUM OR OBJECT MARKER EQUIPPED WITH A TYPE A FLASHING WARNING LIGHT. CORRUGATED BEAM GUIDE RAIL AND MEDIAN BARRIER, AND HEAVY-POST, BLOCKED-OUT, CORRUGATED BEAM GUIDE RAIL AND MEDIAN BARRIER SHALL BE TEMPORARILY TERMINATED BY HAVING THE EXPOSED ENDS (FREE ENDS) DROPPED TO THE GROUND AND PINNED.

4. THE APPROACH ENDS OF BOX BEAM GUIDE RAIL, MEDIAN BARRIER AND BRIDGE RAIL SHALL BE TEMPORARILY TERMINATED WITH BOX BEAM GUIDE RAIL END ASSEMBLIES UTILIZING TWO SPLICE PLATES AND THE PROPER NUMBER OF BOLTS PER CONNECTION. NO POSTS FOR ANCHORAGES WILL BE REQUIRED. SPECIAL TEMPORARY SPLICE PLATES ARE REQUIRED TO ADAPT BOX BEAM GUIDE RAIL END ASSEMBLIES TO BOX BEAM MEDIAN BARRIERS.

5. DURING ANY OVERNIGHT PERIOD WHEN EXISTING GUIDE RAIL OR MEDIAN BARRIER IS TEMPORARILY REMOVED, THE CONTRACTOR SHALL INSTALL CHANNELIZING DEVICES IN THE LOCATION WHERE THE GUIDE RAIL OR MEDIAN BARRIER WAS REMOVED IN ACCORDANCE WITH §619-3.02J.6. REMOVED EXISTING GUIDE RAIL OR MEDIAN BARRIER.

6. GUIDERAIL REPLACEMENT TYPE TO BE COORDINATED WITH NYSDOT.

7. THE PLANS DEPICT AREAS OF EXPANDED LIMIT OF WORK AT EXISTING CULVERTS THAT WILL BE EVALUATED WITH NYSDOT AND THE CERTIFICATE HOLDERS FOR POTENTIAL REPLACEMENT OR REPAIR. IF ANY REPAIRS OR REPLACEMENTS ARE DETERMINED, THE WORK WILL BE DONE IN ACCORDANCE WITH NYSDOT SPECIFICATIONS.

DISTURBANCE NOTE:

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

2. AREAS OF THE LIMIT OF WORK ACROSS THE ALIGNMENT HAVE BEEN EXPANDED TO INCLUDE AREAS OFF THE ROADWAY WITHIN LAWN AREAS THAT ARE SUITABLE FOR POTENTIAL TEMPORARY STAGING AREAS DURING CONSTRUCTION. SHOULD THESE AREAS BE UTILIZED AND DISTURBED THE AREAS SHOULD BE RESTORED TO EXISTING CONDITION PER THE PROJECT RESTORATION NOTES AND DETAILS. EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN DEVELOPED TO INCORPORATE THESE POTENTIALLY DISTURBED AREAS.

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09/18/2022

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No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
0	09/21/2022	FINAL EM&CP SUBMISSION	JM	JR

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 2 - ROUTE 22: DRESDEN - WHITEHALL
PACKAGE SPECIFIC NOTES

DRAWN BY: JTM | DESIGNED BY: JTM | APPROVED BY: JPR | SCALE AS NOTED | REV. NO. X

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 068076
DRAWING NO. G-003
DATE 09/21/2022
SH.NO. XXX OF XXX

File: V:\PROJECTS\ANY\K6\066076.000\09_DESIGN\DRAWINGS\01_SHEETS\DESIGN PACKAGE 1\DESIGN PACKAGE 1B\066076_P1B - G-003 PACKAGE SPECIFIC NOTES.DWG Saved: 9/15/2022 2:19:51 PM Plotted: 9/18/2022 3:42:01 PM Current User: Boullion, Hugo LastSavedBy: 8314

LEGEND & ABBREVIATIONS

HH	EXIST. FIBER OPTIC LINE HANDHOLE
P	EXIST. FIBER OPTIC LINE PEDESTAL
DH	EXIST. FIBER OPTIC LINE DOGHOUSE
MH	EXIST. FIBER OPTIC LINE MANHOLE
V	EXIST. FIBER OPTIC LINE VAULT
BP	EXIST. FIBER OPTIC LINE BORE PIT
LB	EXIST. FIBER OPTIC LOCK BOX
	EXIST. GROUND ROD
FIBER MARK	EXIST. FIBER OPTIC MARKER POST
100	EXIST. FIBER STORAGE
HYD	EXIST. FIRE HYDRANT
WV	EXIST. WATER VALVE
W	EXIST. WATER MANHOLE
WATER MARK	EXIST. WATER MARKER
SS	EXIST. SANITARY SEWER MANHOLE
VENT	EXIST. SANITARY SEWER VENT
ST	EXIST. STORM SEWER MANHOLE
CB	EXIST. STORM SEWER CATCH BASIN
INV.	EXIST. CULVERT INVERT
G	EXIST. GAS MANHOLE
GV	EXIST. GAS VALVE
GAS MARK	EXIST. GAS MARKER
VENT	EXIST. GAS PIPELINE VENT
	EXIST. LIGHT POLE
UP	EXIST. UTILITY POLE
PP	EXIST. ELEC. POLE
	EXIST. TRAFFIC LIGHT
E	EXIST. ELEC. METER
E	EXIST. ELEC. MANHOLE
TR	EXIST. ELEC. TRANSFORMER
V	EXIST. ELEC. VAULT
HH	EXIST. ELEC. HANDHOLE
P	EXIST. ELEC. PEDESTAL/BOX
ELEC MARK	EXIST. ELEC. MARKER POST
	EXIST. ELEC. GUY ANCHOR/WIRE
T	EXIST. TELE. RISER/BOX
T	EXIST. TELE. MANHOLE
HH	EXIST. TELE. HANDHOLE
V	EXIST. TELE. VAULT
P	EXIST. TELE. PEDESTAL
DH	EXIST. TELE. DOGHOUSE
TELEPHONE MARK	EXIST. TELE. MARKER POST
	EXIST. TELE. JUNCTION BOX
TB	EXIST. TRAFFIC SIGNAL BOX
	EXIST. CELL TOWER
CB	EXIST. CABLE BOX
MH	EXISTING MANHOLE UNKNOWN
U	EXISTING UTILITY BOX UNKNOWN
	EXISTING ANTENNA
CAPPED IRON ROD	EXISTING CAPPED IRON ROD
IRON PIPE	EXISTING IRON PIPE
CONCRETE BOUNDARY	EXISTING CONCRETE MONUMENT
POST	EXISTING POST
	EXISTING REFLECTOR MARKER
(SYM.)	EXISTING SYMBOL

SIGN	EXISTING SIGN
	EXIST. STRUCTURE POST
	EXIST. STRUCTURE MAILBOX
XX-W	EXIST. WETLAND FLAG
G G	EXIST. GAS LINE
UT UT	EXIST. UNDERGROUND TELE.
FO FO	EXIST. FIBER OPTIC
OT OT	EXIST. OVERHEAD TELE.
UE UE	EXIST. UNDERGROUND ELEC.
OE OE	EXIST. OVERHEAD ELEC.
ST ST	EXIST. CULVERT
SS SS	EXIST. SANITARY SEWER
ST ST	EXIST. STORM SEWER
W W	EXIST. POTABLE WATER LINE
	EXIST. RAILROAD TRACK
	EXIST. WETLANDS
CERTIFIED ROUTE MP XX	CERTIFIED ROUTE PROVIDED BY CHPE KMZ
110	EXIST. CONTOUR, INDEX
110	EXIST. CONTOUR, DEPRESSION INDEX
	EXIST. CONTOUR, INTERMEDIATE
	EXIST. CONTOUR, DEPRESSION INTERMEDIATE
33.7	EXIST. SPOT ELEVATION
	EXIST. CULTURAL DEBRIS
	EXIST. CULTURAL FIELD LINE
	EXIST. CULTURAL LANDSCAPE AREA
	EXIST. CULTURAL PILE
	EXIST. CULTURAL STORAGE AREA
	EXIST. HYDROGRAPHIC
	EXIST. CULVERT
	EXIST. INUNDATED AREA
	EXIST. RIP-RAP
	EXIST. STREAM
	EXIST. SWAMP
LW 104.2	WATER LEVEL
	EXIST. NATURAL BOULDER
	EXIST. NATURAL SHRUB LINE
	EXIST. NATURAL TREE LINE
	EXIST. NATURAL SINGLE TREE/BUSH
	EXIST. STRUCTURAL BUILDING
	EXIST. PAVED DRIVE
	EXIST. PAVED ROAD
	EXIST. PAVED SHOULDER
	EXIST. PAVED SIDEWALK
	EXIST. GUARDRAIL
	EXIST. RAILROAD
	EXIST. TRAIL
X	EXIST. FENCE
	EXIST. WALL
	EXIST. RETAINING WALL
XX	EXIST. MILEPOST NUMBER
	EXIST. MAPPING BOUNDARY
54.3550 AD27	EXIST. GROUND CONTROL
	PROP. RIGHT-OF-WAY
	PROP. ABUTTER

	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
	GIS – WETLAND
	JD BOUNDARY
WP	PROP. WETLAND PROTECTION FENCE
FS	PROP. COMPOST FILTER SOCK (OR SILT SOCK)
LOW	PROP. LIMITS OF WORK/DISTURBANCE
	PROP. LIMITS OF CLEARING/LIMITS OF WORK IN CLEARING AREAS (SEE NOTE 1)
	PROP. CONCRETE WASHOUT
	PROP. ACCESS ROAD ROUTE (EXISTING ROAD OR SURFACE)
	PROP. REFURBISHED ACCESS ROAD
	PROP. ACCESS ROAD OR OFF SITE ACCESS ROAD
	PROP. TIMBER MATTING ACCESS ROAD
	PROP. SPLICE LOCATION
	PROP. SPLICE VAULT
	PROP. LINK BOX HANDHOLE
	PROP. FIBER SPLICE HANDHOLE
	PROP. BORING LOCATION
XXXXX+XX	PROP. ALIGNMENT STATIONING
	PROP. RIGHT-OF-WAY
	PROP. ABUTTER
	PROP. ALIGNMENT CENTERLINE
	PROP. TEMPORARY EASEMENT
	PROP. PERMANENT EASEMENT
	PROP. TEMPORARY ACCESS EASEMENT
	APPROXIMATE SNOWMOBILE TRAIL LOCATION

NOTES:

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

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
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
MAX	MAXIMUM
MIN	MINIMUM
N	NORTHING
NO	NUMBER
NY	NEW YORK
P#	PACKAGE #
PVC	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
REV	REVISION
ROW	RIGHT-OF-WAY
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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DRAWN BY: JTM DESIGNED BY: JTM APPROVED BY: JPR

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 2 - ROUTE 22: DRESDEN - WHITEHALL
LEGEND

SCALE AS NOTED
REV. NO. X
DATE 09/21/2022
SH.NO. XXX OF XXX

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. G-004

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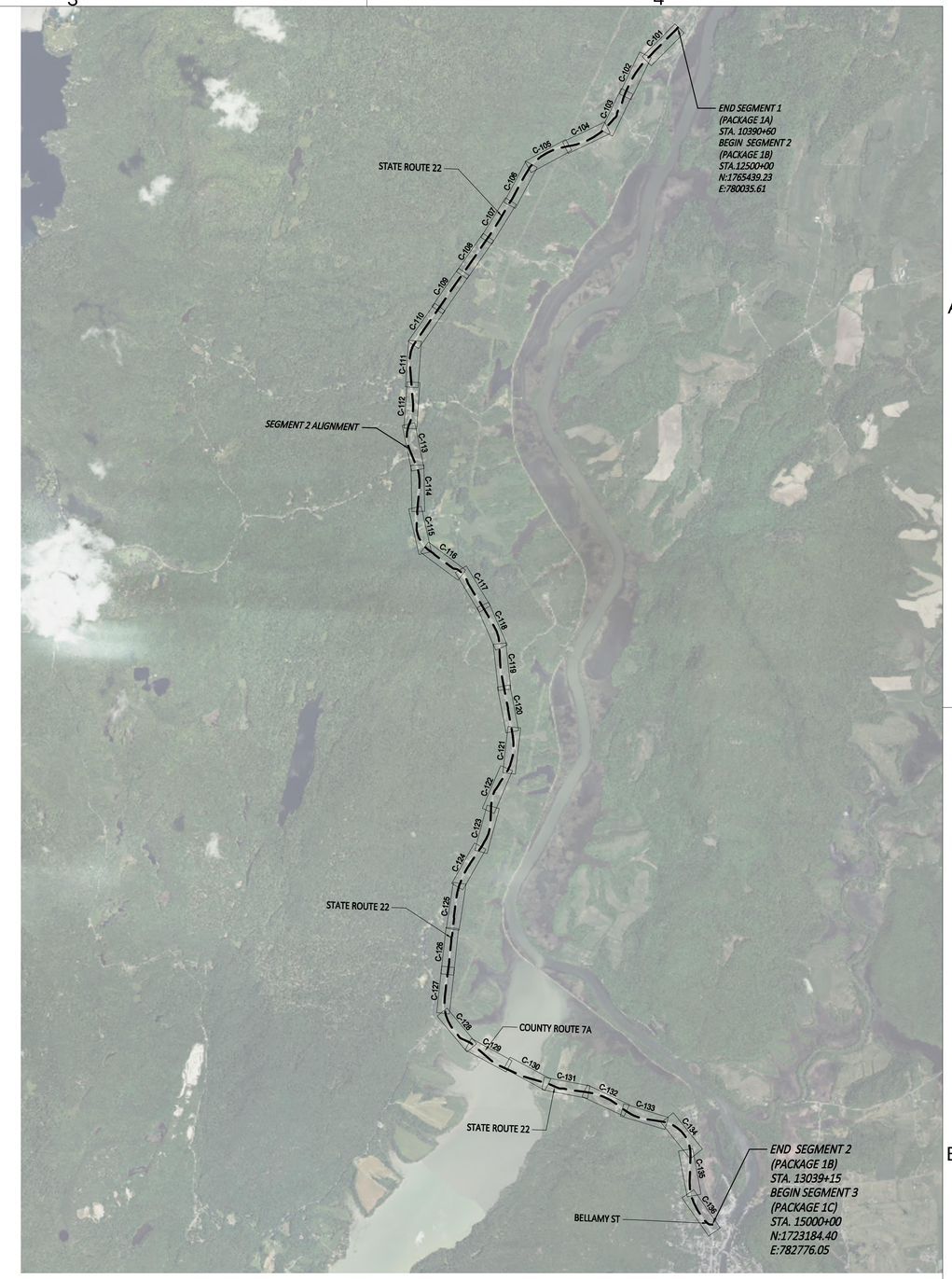
Structure Table				
Structure Name	Station	Northing	Easting	Finished Grade
SPLICE VAULT 014	12531+43.98	1762920.93	778210.59	RIM = 114.82
SPLICE VAULT 014A	12557+36.40	1761158.94	776507.42	RIM = 220.96
SPLICE VAULT 015	12587+58.97	1759228.02	774415.27	RIM = 348.56
SPLICE VAULT 016	12616+49.52	1756753.30	772926.15	RIM = 326.17
SPLICE VAULT 017	12648+43.87	1754069.15	771194.32	RIM = 442.88
SPLICE VAULT 018	12677+65.09	1751213.75	771081.44	RIM = 388.87
SPLICE VAULT 019	12696+87.22	1749401.31	771431.12	RIM = 414.12
SPLICE VAULT 020	12727+19.52	1746589.23	771996.59	RIM = 317.70
SPLICE VAULT 021	12759+50.76	1744302.79	774137.19	RIM = 399.85
SPLICE VAULT 022	12789+59.44	1741416.43	774839.52	RIM = 312.47
SPLICE VAULT 023	12821+69.93	1738361.66	774603.38	RIM = 208.46
SPLICE VAULT 024	12851+09.49	1735628.93	773744.78	RIM = 304.43
SPLICE VAULT 025	12883+09.31	1732524.21	773158.58	RIM = 264.44
SPLICE VAULT 026	12914+79.41	1729521.25	773568.87	RIM = 143.86
SPLICE VAULT 027	12956+85.49	1727804.75	777334.75	RIM = 128.69
SPLICE VAULT 028	12985+09.81	1726904.01	779954.91	RIM = 169.11
SPLICE VAULT 029	13015+59.63	1725195.21	781918.00	RIM = 128.80
SPLICE VAULT 030	13034+69.48	1723407.41	782421.44	RIM = 110.60
NOTE: SPLICE VAULT 013 IS PART OF PACKAGE 1. IT IS SHOWN / LISTED FOR REFERENCE PURPOSES ONLY.				



PLAN AND PROFILE KEY MAP
SCALE: 1" = 2500'

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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 2 - ROUTE 22: DRESDEN - WHITEHALL
KEYPLAN

DRAWN BY: JTM | DESIGNED BY: JTM | APPROVED BY: JPR | SCALE: AS NOTED | REV. NO. X

KIEWIT PROJECT NO.	21162
CHA PROJECT NO.	066076
DRAWING NO.	G-005
DATE	09/21/2022
SH.NO.	XXX OF XXX

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TABLE 1.4: SEGMENT 2 – AGRICULTURAL LANDS	
AGRICULTURAL LAND LOCATION	ANTICIPATED IMPACTS TO AGRICULTURAL ACTIVITIES/LAND
NORTH SIDE OF STATE ROUTE 22 FROM 12914+25 (SHEET C–128) TO 12921+25 (SHEET C–129) PARCEL 42.–1–23.2	CONSTRUCTION ACTIVITY INCLUDING THE INSTALLATION OF THE ALIGNMENT, A TEMPORARY ACCESS ROAD AS DESCRIBED IN TABLE 4.3 OF THE EM&CP AND THE TEMPORARY HDD 2 ENTRY PIT AS DESCRIBED IN TABLE 4.1 OF THE EM&CP AND TEMPORARY CRANE PAD WILL OCCUR WITHIN THE STATE ROUTE 22 RIGHT OF WAY AND IS NOT ANTICIPATED TO IMPACT THESE AGRICULTURAL LANDS.
NORTH SIDE OF STATE ROUTE 22 FROM 12947+00 (SHEET C–130) TO 12954+50 (SHEET C–131) PARCEL 50.–1–2	CONSTRUCTION ACTIVITY INCLUDING THE INSTALLATION OF THE ALIGNMENT VIA HDD AND THE TEMPORARY HDD 2 EXIT PIT AS DESCRIBED IN TABLE 4.1 OF THE EM&CP AND THE INSTALLATION OF A TEMPORARY CRANE PAD, WILL OCCUR WITHIN THE STATE ROUTE 22 RIGHT OF WAY AND IS NOT ANTICIPATED TO IMPACT THESE AGRICULTURAL LANDS.
WEST OF THE ALIGNMENT SOUTH OF RYDER ROAD FROM 15281+00 TO 15285+50 (SHEET C–201)	THE SOUTH RYDER ROAD STAGING AND LAYDOWN AREA IS LOCATED WITHIN SEGMENT 3 BUT WILL BE UTILIZED DURING CONSTRUCTION OF SEGMENTS 1 AND 2. ANTICIPATED IMPACTS TO AGRICULTURAL LANDS INCLUDE CONSTRUCTION ACTIVITY FROM THE STORAGE OF MATERIALS AND EQUIPMENT. ALL IMPACTS WILL BE TEMPORARY, AND THE AREA WILL BE FULLY RESTORED IN ACCORDANCE WITH SECTION 13.4 OF THE EM&CP.

NOTE: SECTION 1.4.1 OF THE EM&CP SUMMARIZES THE MEASURES TO BE FOLLOWED WITHIN AGRICULTURAL AREAS SECTION 7.1.6 OF THE EM&CP SUMMARIZES THE REQUIREMENTS AND PROCEDURES FOR ANY VEGETATION OR TREE CLEARING THAT MAY OCCUR WITHIN AGRICULTURAL LANDS. TABLE 13.1 IN SECTION 13.4 OF THE EM&CP SUMMARIZES THE LOCATION WHERE AGRICULTURAL LANDS POTENTIALLY REQUIRE RESTORATION WITHIN SEGMENT 2. SECTION 13.4 OF THE EM&CP AND DESCRIBES ALL CLEANUP AND RESTORATION PROCEDURES AND METHODS THAT WILL BE FOLLOWED TO RESTORE AGRICULTURAL LANDS.

SEGMENT 2 – AGRICULTURAL LANDS

TABLE 1.5: SEGMENT 2 – RECREATIONAL AREAS	
RECREATIONAL AREA	LOCATION
ADIRONDACK PARK	(DRESDEN TO 12938+00) (C–130)
LAKES TO LOCKS PASSAGE SCENIC BYWAY (STATE HIGHWAY 22	(12500+00 (C–101) TO 13040+00 (C–136))
EMPIRE STATE TRAIL	(12500+00 (C–101) TO 13040+00 (C–136))
NYSDEC SOUTH BAY PIER AND BOAT LAUNCH	DRESDEN TO 12938+00 (C–130)

NOTE: SECTION 1.4.2 OF THE EM&CP SUMMARIZES THE MEASURES TO BE FOLLOWED WITHIN RECREATIONAL AREAS.

SEGMENT 2 – RECREATIONAL AREAS

SEGMENT 2 – CONSTRUCTION METHODS	
TOPIC	SECTION OF EM&CP
HORIZONTAL DIRECTIONAL DRILLING	4.2
INSTALLATION AND PERFORMANCE CONTROLS	4.2.1
DRILLING FLUIDS MANAGEMENT	4.2.2
ROAD CROSSING METHODS	4.2.3
TRENCHING	4.3
CABLE INSTALLATION REQUIREMENTS	4.3.1
DEWATERING METHODS	4.3.2
BEDDING AND BACKFILLING METHODS	4.3.3
DREDGING	NOT APPLICABLE FOR THIS SEGMENT
CONVERTER STATION AND SUBSTATION REQUIREMENTS	NOT APPLICABLE FOR THIS SEGMENT
RIGHT OF WAYS AND EASEMENTS	4.6
RIGHT OF WAY ENCROACHMENT PLAN	4.6.1
RIGHT OF WAY CLEARING	4.7 (SEE SECTION 7.0 FOR MORE DETAILS)
BUILDING AND STRUCTURE REMOVAL	4.8
ACCESS ROADS	4.9
DRIVEWAY ACCESS DURING CONSTRUCTION	4.9.1
ACCESS THROUGH WETLANDS	4.9.2
ACCESS THROUGH AGRICULTURAL LANDS	4.9.3
DRAIN LINES AND UNDER DRAINS WITHIN AGRICULTURAL LANDS	4.9.4
SOIL MANAGEMENT PLAN	4.10 AND APPENDIX L
TRANSPORTATION AND UTILITY CROSSINGS	4.11 AND APPENDIX R (SEE SECTION 11.0 AND 12.0 FOR MORE DETAILS)
CULVERT REPLACEMENT	4.12

NOTE: THE TABLE ABOVE SUMMARIZES THE CONSTRUCTION METHODS AND ASSOCIATED SUBSECTIONS THAT SUMMARIZE THE MEASURES AND STANDARDS THAT WILL BE FOLLOWED WITHIN SEGMENT 2.

SEGMENT 2 – CONSTRUCTION METHODS

TABLE 4.3: SEGMENT 2– ACCESS ROADS					
ACCESS ROAD NUMBER	ACCESS ROAD DESCRIPTION	TYPE OF ACCESS ROAD	LOCATION (APPROXIMATE – SEE DRAWINGS FOR DETAILS)	IMPACTS TO ENVIRONMENTALLY SENSITIVE AREAS	IMPACTS TO AGRICULTURAL LAND
2.1	ACCESS ROAD	TEMPORARY	12538+00 TO 12541+00 (C–103)	TEMPORARY CONSTRUCTION ACTIVITY IMPACT TO STREAM. SEE TABLE 8.1 IN THE EM&CP FOR FULL DESCRIPTION	NONE
2.2	ACCESS ROAD FOR SPLICE LOCATION 014A	TEMPORARY	12556+50 TO 12558+25 (C–104)	TEMPORARY CONSTRUCTION ACTIVITY IMPACT TO WETLAND. SEE TABLE 8.2 IN THE EM&CP FOR FULL DESCRIPTION	NONE
2.3	GRAVEL ACCESS ROAD FOR LAKE ROAD HDD 2 ENTRY	TEMPORARY	12914+75 (C–128) TO 12921+50 (C–129)	TEMPORARY CONSTRUCTION ACTIVITY IMPACT TO WETLAND. SEE TABLE 8.2 IN THE EM&CP FOR FULL DESCRIPTION	NONE
2.4	ACCESS ROAD FOR SPLICE LOCATION 027	TEMPORARY	12955+50 TO 12958+50 (C–131)	TEMPORARY CONSTRUCTION ACTIVITY IMPACT TO WETLAND. SEE TABLE 8.2 IN THE EM&CP FOR FULL DESCRIPTION	NONE

NOTE: THE TABLE ABOVE SUMMARIZES THE ACCESS ROADS IN THIS SEGMENT AND THEIR ASSOCIATED IMPACTS ON ENVIRONMENTALLY SENSITIVE AREAS AND AGRICULTURAL LANDS IF APPLICABLE. SECTION 4.9 OF THE EM&CP SUMMARIZES THE PROCEDURES THAT WILL BE FOLLOWED FOR THE CONSTRUCTION OF ALL ACCESS ROADS INCLUDING THOSE RELATED TO ACCESS THROUGH WETLANDS, AGRICULTURE, AND DRIVEWAYS. ALL ACCESS ROADS WILL BE TEMPORARY AND RESTORED ACCORDING TO SECTION 13.2.4 AND 13.4 OF THE EM&CP AS APPLICABLE.

SEGMENT 2 – ACCESS ROADS

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

SEGMENT 2 – EM&CP EROSION AND SEDIMENT CONTROL NOTES

NOTE:
1. THE NOISE RECEPTORS THAT OCCUR NEAR SEGMENT 2 AT VARIOUS POINTS INCLUDE RESIDENCES AND BUSINESSES. SECTION 9.2 OF THE EM&CP DESCRIBES THE NOISE CONTROL MEASURES THAT WILL BE EMPLOYED THROUGHOUT THIS SEGMENT.

SEGMENT 2 – EM&CP NOISE SENSITVE AREAS NOTE

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

SEGMENT 2 – FEMA

TABLE 4.2: FACILITY ROW OWNERSHIP FOR SEGMENT 2				
DESCRIPTION & PARCEL NUMBER	OWNER	TOWN	TYPE	LOCATION (APPROXIMATE – SEE DRAWINGS FOR DETAILS)
ROUTE 22, IN ROW NO SPECIFIC PARCEL NUMBER	STATE (NYSDOT)	PUTNAM / DRESDEN/ WHITEHALL	PERMANENT	12500+00 (C–101) TO 13035+75 (C–136)
HDD–2	STATE (OGS)	DRESDEN / WHITEHALL	PERMANENT	12920+98 (C–128 & C–129) TO 12950+78 (C–130 & C–131)
LOWER BELLAMY ST.	VILLAGE OF WHITEHALL	VILLAGE OF WHITEHALL	PERMANENT	13035+75 (C–136) TO 13040+00 (C–136)

NOTE:
1. THE MAJORITY OF THE CONSTRUCTION OF SEGMENT 2 WILL TAKE PLACE WITHIN THE HIGHWAY/ROAD RIGHT OF WAY. THE TABLE ABOVE SUMMARIZES THE EASEMENTS THAT ARE IN PLACE ALONG SEGMENT 2. SECTION 4.6 OF THE EM&CP SUMMARIZES THE APPLICABLE MEASURES THAT WILL BE FOLLOWED BY THE CERTIFICATE HOLDERS RELATED TO EASEMENTS AND PROPERTY RIGHTS. ANY EASEMENTS NOT INCLUDED IN THE TABLE ABOVE, BUT REQUIRED FOR THE PROJECT WILL REQUIRE A REVISION TO THE EM&CP USING THE PROCESSES DESCRIBED IN SECTION 3.2.6 OF THE EM&CP.

SEGMENT 2 – FACILITY ROW OWNERSHIP

NOT FOR CONSTRUCTION
FOR EM&CP PERMIT ONLY

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STATE OF NEW YORK · JOSEPH P. ROMANO · 081993 · LICENSED PROFESSIONAL ENGINEER
09/18/2022

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.

No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
0	09/21/2022	FINAL EM&CP SUBMISSION	JM	JR

DRAWN BY: JJE DESIGNED BY: JTM APPROVED BY: JPR

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 2 - ROUTE 22: DRESDEN - WHITEHALL
EM&CP DATA TABLES

SCALE AS NOTED | REV. NO. X

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. G-011
DATE 09/21/2022
SH.NO. XXX OF XXX

File: V:\PROJECTS\ANY\K6\066076.000\09_DESIGN\DRAWINGS\01_SHEETS\DESIGN PACKAGE 1\DESIGN PACKAGE 1B\066076_P1B - G-011-G-013.DWG Saved: 9/18/2022 3:22:43 PM Plotted: 9/18/2022 3:46:28 PM Current User: Bouillon, Hugo LastSavedBy: 7895

TABLE 7.1: SEGMENT 2 – TREE AND VEGETATION CLEARING LOCATIONS		
DESCRIPTION	LOCATION (APPROXIMATE–SEE DRAWINGS FOR DETAILS)	VEGETATION/TREE CLEARING METHOD TYPE
TREE TRIMMING AND VEGETATION CLEARING. NO TREE REMOVAL ANTICIPATED.	12504+25 TO 12505+50, 12507+00 TO 12507+75, 12509+00 TO 12513+50 (C–101)	TYPE I AND TYPE II. WITHIN APA BOUNDARY.
TREE TRIMMING AND VEGETATION CLEARING. NO TREE REMOVAL ANTICIPATED.	12518+00 TO 12525+50, 12527+00 TO 12529+50 (C–102)	TYPE I AND TYPE II. WITHIN APA BOUNDARY.
TREE TRIMMING AND VEGETATION CLEARING. NO TREE REMOVAL ANTICIPATED.	12532+00 TO 12534+75, 12538+00 TO 12540+50, 12541+00 TO 12543+00 (C–103)	TYPE I AND TYPE II. WITHIN APA BOUNDARY.
TREE TRIMMING AND VEGETATION CLEARING. NO TREE REMOVAL ANTICIPATED.	12571+00 TO 12575+00 (C–105)	TYPE I AND TYPE II. WITHIN APA BOUNDARY.
TREE TRIMMING AND VEGETATION CLEARING. NO TREE REMOVAL ANTICIPATED.	12576+00 TO 12579+00, 12587+00 TO 12589+25 (C–106)	TYPE I AND TYPE II. WITHIN APA BOUNDARY.
TREE TRIMMING AND VEGETATION CLEARING. NO TREE REMOVAL ANTICIPATED.	12592+00 TO 12593+50, 12597+00 TO 12597+50, 12598+43 TO 12599+15 (C–107)	TYPE I AND TYPE II. WITHIN APA BOUNDARY.
TREE TRIMMING AND VEGETATION CLEARING. NO TREE REMOVAL ANTICIPATED.	12610+50 TO 12611+50 (C–108)	TYPE I AND TYPE II. WITHIN APA BOUNDARY.
TREE TRIMMING AND VEGETATION CLEARING. NO TREE REMOVAL ANTICIPATED.	12650+25 TO 12650+75, 12651+50 TO 12652+00, 12664+00 TO 12664+65 (C–111)	TYPE I AND TYPE II. WITHIN APA BOUNDARY.
TREE TRIMMING AND VEGETATION CLEARING. NO TREE REMOVAL ANTICIPATED.	12678+28 TO 12679+30 (C–112)	TYPE I AND TYPE II. WITHIN APA BOUNDARY.
TREE TRIMMING AND VEGETATION CLEARING. NO TREE REMOVAL ANTICIPATED.	12695+00 TO 12697+75 (C–114)	TYPE I AND TYPE II. WITHIN APA BOUNDARY.
TREE TRIMMING AND VEGETATION CLEARING. NO TREE REMOVAL ANTICIPATED.	12726+50 TO 12727+00 (C–116)	TYPE I AND TYPE II. WITHIN APA BOUNDARY.
TREE TRIMMING AND VEGETATION CLEARING. NO TREE REMOVAL ANTICIPATED.	12758+00 TO 12759+12 (C–118)	TYPE I AND TYPE II. WITHIN APA BOUNDARY.
TREE TRIMMING AND VEGETATION CLEARING. NO TREE REMOVAL ANTICIPATED.	12826+75 TO 12829+00 (C–122)	TYPE I AND TYPE II. WITHIN APA BOUNDARY.
TREE TRIMMING AND VEGETATION CLEARING. NO TREE REMOVAL ANTICIPATED.	12842+50 TO 12843+00, 12843+77 TO 12844+50 (C–123)	TYPE I AND TYPE II. WITHIN APA BOUNDARY.
TREE TRIMMING AND VEGETATION CLEARING. NO TREE REMOVAL ANTICIPATED.	12845+00 TO 12846+00, 12851+00 TO 12852+50, 12853+00 TO 12854+00, 12856+25 TO 12857+50 (C–124)	TYPE I AND TYPE II. WITHIN APA BOUNDARY.
TREE TRIMMING AND VEGETATION CLEARING. NO TREE REMOVAL ANTICIPATED.	12860+25 TO 12868+25, 12864+75 TO 12868+00, 12872+00 TO 12875+00 (C–125)	TYPE I AND TYPE II. WITHIN APA BOUNDARY.
TREE TRIMMING AND VEGETATION CLEARING. NO TREE REMOVAL ANTICIPATED.	12875+00 TO 12876+50, 12878+00 TO 12879+50, 12882+50 TO 12884+50, 12887+00 TO 12887+50 (C–126)	TYPE I AND TYPE II. WITHIN APA BOUNDARY.
TREE TRIMMING AND VEGETATION CLEARING. NO TREE REMOVAL ANTICIPATED.	12890+19 TO 12896+75, 12898+00 TO 12898+30, 12902+82 TO 12903+38 (C–127)	TYPE I AND TYPE II. WITHIN APA BOUNDARY.
TREE TRIMMING AND VEGETATION CLEARING. NO TREE REMOVAL ANTICIPATED.	12917+50 TO 12918+00 (C–128)	TYPE I AND TYPE II. WITHIN APA BOUNDARY.
ENTRY AND EXIT PITS FOR HDD–2. TREE CLEARING AND VEGETATION CLEARING. TREE REMOVAL ANTICIPATED.	12919+50 (C–128) TO 12921+00 (C–129), 12951+00 TO 12954+00 (C–131)	TYPE I AND TYPE II. WITHIN APA BOUNDARY.
TREE TRIMMING AND VEGETATION CLEARING. NO TREE REMOVAL ANTICIPATED.	12957+50 TO 12957+75 (C–131)	TYPE I AND TYPE II. WITHIN APA BOUNDARY.
TREE TRIMMING AND VEGETATION CLEARING. NO TREE REMOVAL ANTICIPATED.	13030+00 TO 13038+25 (C–136)	TYPE I AND TYPE II

NOTE:
THE TABLE ABOVE SUMMARIZES THE LOCATION AND CLEARING TYPE THAT WILL OCCUR WITHIN THIS SEGMENT. SECTION 7.0 OF THE EM&CP SUMMARIZES THE CLEARING METHODS AND PROCEDURES FOR VEGETATION AND TREES.

SEGMENT 2 – TREE AND VEGETATION CLEARING LOCATIONS

TABLE 7.3 SEGMENT 2 – 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 INCLUDING TREE LIMBS MAY BE CHIPPED TO REDUCE DEBRIS VOLUME. SEE TYPE D DESCRIPTION ABOVE FOR THE DISPOSAL OF CHIPS.
TYPE F	VEGETATION HAULING	VEGETATION AND STUMPS MAY BE HAULED TO A NYSDEC APPROVED LANDFILL OR OTHER SUITABLE OFF–SITE LOCATION WITH THE APPROVAL OF THE LANDOWNER AND ALL APPLICABLE PERMITTING AGENCIES.
TYPE G	VEGETATION BURIAL	STUMPS MAY BE BURIED ON THE RIGHT–OF–WAY WITH LANDOWNER AGREEMENT. THE BURIAL AREAS WILL BE SUFFICIENTLY COMPACTED AND MONITORED AFTER CONSTRUCTION TO ASSURE THAT SETTLING DOES NOT OCCUR. WHERE SIGNIFICANT SETTLING AFTER CONSTRUCTION HAS BEEN IDENTIFIED BY THE CONSTRUCTION INSPECTOR ET. AL., FINISHED GRADE WILL BE RE–ESTABLISHED USING LOCALLY OBTAINED RUN–OF–BANK MATERIAL AND/OR TOPSOIL AND RE–SEEDED AS APPROPRIATE AS SPECIFIED IN SECTIONS 14.2. AREAS WHERE SIGNIFICANT AMOUNTS OF STUMP BURIAL OCCURS WILL BE NOTED ON AS–BUILT DRAWINGS, AND MONITORED FOR SETTLING DURING ROW CONDITION SURVEYS AND MAINTENANCE ACTIVITIES.

NOTE:
SECTION 7.3 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. DISPOSAL SITES MENTIONED IN THE TABLE ABOVE ARE PROVIDED IN APPENDIX L – SOIL MANAGEMENT PLAN. DISPOSAL OF ALL DISEASED TREES WILL OCCUR WITHIN FOUR (4) DAYS AFTER CUTTING BY A DISPOSAL METHOD TO PREVENT THE SPREAD OF THE ASH BORER AND ASIAN LONGHORN BEETLE AS DESCRIBED IN SECTION 8.3.3 OF THE EM&CP. ALL APPLICABLE NYSDEC REGULATIONS REGARDING INVASIVE SPECIES WILL BE FOLLOWED WHEN DISPOSING OF VEGETATION.

SEGMENT 2 – TREE AND VEGETATION DISPOSAL METHODS

TABLE 8.2: SUMMARY OF WETLAND IMPACT						
WETLAND ID	JURISDICTION	APPROXIMATE STATION & SHEET NUMBER	ECOLOGICAL COMMUNITY TYPE	PERMANENT ROW IMPACTS (SQUARE FEET)	TEMPORARY CONSTRUCTION IMPACTS (SQUARE FEET)	STATE WETLAND BUFFER TEMPORARY CONSTRUCTION IMPACTS (SQUARE FEET)
WETLAND CKK	USACE	12556+60 TO 12558+00 (SEGMENT 2 C–104)	PEM	390	444	N/A
WETLAND G–N	USACE	12913+50 TO 12921+00 (SEGMENT 2 C–414 TO C–415)	PEM	162	1756	N/A
WETLAND G–H	USACE/ NYSDEC (CLASS 1)	12957+50 TO 12960+00 (SEGMENT 2 C–416)	PEM	N/A	N/A	60785
WETLAND G–G	USACE/ NYSDEC (CLASS 1)	12961+00 TO 12968+00 (SEGMENT 2 C–416)	PEM	N/A	N/A	
WETLAND G–F	USACE/ NYSDEC (CLASS 1)	12967+50 TO 12969+00 (SEGMENT 2 C–416)	PEM	N/A	N/A	
WETLAND G–E	USACE/ NYSDEC (CLASS 1)	12977+25 TO 12989+25 (SEGMENT 2 C–416 TO C–417)	PEM/PSS	N/A	N/A	55931
WETLAND G–C	USACE/ NYSDEC (CLASS 1)	13015+50 TO 13022+75 (SEGMENT 2 C–418)	PEM	N/A	N/A	32168
WETLAND G–B	USACE/ NYSDEC (CLASS 1)	13029+75 TO 13033+50 (SEGMENT 2 C–418)	PEM	N/A	N/A	16,987
WETLAND G–A	USACE/ NYSDEC (CLASS 1)	13034+75 TO 13037+00 (SEGMENT 2 C–418)	PSS	N/A	N/A	6476
SA–4	USAGE	CONSTRUCTION ENTRANCES FOR RYDER ROAD STAGING AND LAYDOWN AREA (SEGMENT 1 & 2 C–201)	PEM	0	341	N/A
TOTAL				552 SF (0.013 AC)	2200 SF (0.05 AC)	172347 SF (3.96 AC)

NOTES:
1. SECTION 8.1 OF THE EM&CP AND THE WETLAND DELINEATION REPORT IN APPENDIX M OF THE EM&CP DESCRIBE THE IMPACTS TO WETLANDS WITHIN THIS PACKAGE AS WELL AS THE AVOIDANCE AND MINIMIZATION MEASURES. THE TABLE ABOVE SUMMARIZES THE PERMANENT ROW IMPACTS (0.013 ACRES), TEMPORARY CONSTRUCTION IMPACTS (0.05 ACRES), AND TEMPORARY CONSTRUCTION IMPACTS TO STATE WETLAND BUFFERS (3.96 ACRES) IN SEGMENT 2. NOTE THAT THE RYDER ROAD STAGING AND LAYDOWN AREA WETLAND IMPACTS ARE INCLUDED IN BOTH SEGMENT 1 AND 2.

2. SECTION 8.1 OF THE EM&CP AND THE WATERBODY INVENTORY IN APPENDIX M OF THE EM&CP DESCRIBE THE IMPACTS TO STREAMS AND WATERBODIES WITHIN THIS SEGMENT AS WELL AS THE AVOIDANCE AND MINIMIZATION MEASURES.

SEGMENT 2 IMPACTS TO WETLANDS

TABLE 8.3: SEGMENT 2 – FEDERALLY LISTED SPECIES TABLE			
ESA TYPE	LOCATION	BEST MANAGEMENT PRACTICES	IMPACTS
ESA 4	THROUGHOUT SEGMENT 2 IN FORESTED AREAS	A) CONDUCT TREE CLEARING AND TREE TRIMMING ACTIVITIES BETWEEN OCTOBER 31 AND MARCH 31. TREE CLEARING AND TREE TRIMMING ACTIVITIES ARE NOT ALLOWED BETWEEN APRIL 1 AND OCTOBER 30. B) DURING THE PRECONSTRUCTION SURVEY, THE CONTRACTORS WOULD IDENTIFY LARGE LIVE OR DEAD TREES WITH PEELING BARK, INCLUDING LARGE SPECIMENS OF SHAGBARK HICKORY (CARYA OVATA), WITH THE POTENTIAL TO SERVE AS MATERNITY OR ROOST TREES AND THESE WOULD BE MARKED. POTENTIAL ROOST TREES IDENTIFIED WITHIN THE CONSTRUCTION LIMITS WOULD BE AVOIDED WHERE POSSIBLE DURING CONSTRUCTION ACTIVITIES.	NONE
ESA 9	THROUGHOUT SEGMENT 2 IN FORESTED AREAS	A) CONDUCT TREE CLEARING AND TREE TRIMMING ACTIVITIES BETWEEN OCTOBER 31 AND MARCH 31. TREE CLEARING AND TREE TRIMMING ACTIVITIES ARE NOT ALLOWED BETWEEN APRIL 1 AND OCTOBER 30. B) DURING THE PRECONSTRUCTION SURVEY, THE CONTRACTORS WOULD IDENTIFY LARGE LIVE OR DEAD TREES WITH PEELING BARK, INCLUDING LARGE SPECIMENS OF SHAGBARK HICKORY (CARYA OVATA), WITH THE POTENTIAL TO SERVE AS MATERNITY OR ROOST TREES AND THESE WOULD BE MARKED. POTENTIAL ROOST TREES IDENTIFIED WITHIN THE CONSTRUCTION LIMITS WOULD BE AVOIDED WHERE POSSIBLE DURING CONSTRUCTION ACTIVITIES.	NONE

TABLE 8.4: SEGMENT 2 – STATE LISTED SPECIES TABLE			
ESA TYPE	LOCATION	BEST MANAGEMENT PRACTICES	IMPACTS
ESA 9	THROUGHOUT SEGMENT 2 IN FORESTED AREAS	A) CONDUCT TREE CLEARING AND TREE TRIMMING ACTIVITIES BETWEEN OCTOBER 31 AND MARCH 31. TREE CLEARING AND TREE TRIMMING ACTIVITIES ARE NOT ALLOWED BETWEEN APRIL 1 AND OCTOBER 30. B) DURING THE PRECONSTRUCTION SURVEY, THE CONTRACTORS WOULD IDENTIFY LARGE LIVE OR DEAD TREES WITH PEELING BARK, INCLUDING LARGE SPECIMENS OF SHAGBARK HICKORY (CARYA OVATA), WITH THE POTENTIAL TO SERVE AS MATERNITY OR ROOST TREES AND THESE WOULD BE MARKED. POTENTIAL ROOST TREES IDENTIFIED WITHIN THE CONSTRUCTION LIMITS WOULD BE AVOIDED WHERE POSSIBLE DURING CONSTRUCTION ACTIVITIES.	NONE

NOTE: THE TABLES ABOVE SUMMARIZE THE LOCATIONS, BEST MANAGEMENT PRACTICES, AND IMPACTS FOR THE FEDERALLY LISTED SPECIES AND STATE–LISTED SPECIES THAT MAY OCCUR ON OR WITHIN THE VICINITY OF SEGMENT 2. SECTION 8.2 OF THE EM&CP SUMMARIZES THE HABITAT DESCRIPTIONS, MITIGATION AND PROTECTION MEASURES FOR THREATENED AND ENDANGERED SPECIES; RARE, THREATENED AND ENDANGERED PLANTS; AND SIGNIFICANT NATURAL COMMUNITIES. IN THE EVENT OF AN UNANTICIPATED EMERGENCY THAT REQUIRES TREE CLEARING OR TREE TRIMMING DURING APRIL 1 –OCTOBER 30, THE PROCEDURES DESCRIBED IN SECTION 7.1.2 OF THE EM&CP WILL BE FOLLOWED.

SEGMENT 2 – FEDERALLY LISTED AND STATE LISTED SPECIES

NOTE: THERE WERE NO CONFIRMED LOCATIONS OF INVASIVE SPECIES WITHIN SEGMENT 1. SECTION 8.3 AND APPENDIX N OF THE EM&CP DESCRIBES THE INVASIVE SPECIES MANAGEMENT PLAN FOR THE PROJECT. SECTION 8.3.2 AND SECTION 8.3.3 OF THE EM&CP DESCRIBE THE MEASURES TO PREVENT OR CONTROL THE TRANSPORT OF INVASIVE PLANT AND INSECT SPECIES AS WELL AS THE NECESSARY REPORTING REQUIREMENTS TO NYSDEC REGIONAL FORESTER IF THESE SPECIES ARE ENCOUNTERED.

SEGMENT 2 – INVASIVE SPECIES

NOTE: THERE IS NO ANTICIPATED IMPACT TO THE CULTURAL RESOURCES IDENTIFIED WITHIN SEGMENT 2. SEE SECTION 10.0 OF THE EM&CP AND THE CULTURAL RESOURCE MANAGEMENT PLAN IN APPENDIX O FOR A FULL DESCRIPTION OF ALL CULTURAL RESOURCES IDENTIFIED WITHIN SEGMENT 2 AS WELL AS THE PROCEDURES TO BE FOLLOWED IN THE EVENT OF AN UNANTICIPATED DISCOVERY OF CULTURAL OR ARCHAEOLOGICAL RESOURCES."

SEGMENT 2 – CULTURAL RESOURCES

TABLE 7.2 SEGMENT 2 – TREE AND VEGETATION CLEARING METHODS		
METHOD TYPE	METHOD TITLE	METHOD DESCRIPTION
TYPE I	HAND CUTTING (HC)	THIS METHOD EMPLOYS A HAND–HELD CHAIN SAW. IT IS SELECTIVE BUT IS SLOWER AND MORE EXPENSIVE THAN MOTORIZED MECHANICAL DEVICES. RESIDENTIAL AREAS, BUFFER ZONES, WETLANDS, AND HIGHWAY SCREENS ARE AREAS WHERE HAND CUTTING IS TYPICALLY PRESCRIBED.
TYPE II	MECHANICAL CLEARING MACHINE (HA)	THIS TERM USUALLY REFERS TO A MACHINE KNOWN AS THE HYDRO–AX OR KERSHAW MOWER. THIS MACHINE CAN CUT TREES UP TO TEN (10) INCHES IN DIAMETER AT THE RATE OF SEVERAL ACRES A DAY, DEPENDING ON STEM DENSITY AND TERRAIN. IT IS ESSENTIALLY NONSELECTIVE AND A GOOD DEVICE FOR CLEARING RIGHTS–OF–WAY THAT ARE COMPOSED OF YOUNG UNDESIRABLE SPECIES IN A RELATIVELY UNIFORM STAND.
TYPE III	MOWING	THIS TECHNIQUE IS PRIMARILY USED IN AREAS OF HERBACEOUS VEGETATION. TERRAIN MUST BE RELATIVELY FLAT WITH NO GULLIES OR ROCKS.
TYPE IV	MECHANICAL WHOLE–TREE FELLING EQUIPMENT	THIS METHOD ALLOWS CONTROLLED FELLING AND LOADING OF WHOLE TREES WHILE MINIMIZING DAMAGE TO ADJACENT TREES. WHERE VEGETATION IS CLEARED, EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED AND MONITORED UNTIL THE TOPSOIL IS STABILIZED AND CAN SUPPORT GRASSY VEGETATION.

NOTE: THE TABLE ABOVE SUMMARIZES THE CLEARING TYPE THAT WILL OCCUR WITHIN THIS PACKAGE. SECTION 7.0 AND 7.1 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. IF PREVIOUSLY UNIDENTIFIED TREES ARE ENCOUNTERED THAT REQUIRE TRIMMING/CLEARING WITHIN THE APPROVED CLEARING WINDOW AS TO NOT IMPACT THREATENED AND ENDANGERED SPECIES, THEY WILL BE CHIPPED AND SPREAD IF THEY ARE IN UPLAND AREAS OR DISPOSED OF OFF–SITE AT A DEC APPROVED LOCATION (SEE APPENDIX L IN THE EM&CP).
1. WETLANDS: SECTION 7.1.5 AND SECTION 8.1 OF THE EM&CP
2. STREAM CROSSING: SECTION 7.1.5 AND SECTION 8.1 OF THE EM&CP.
3. THREATENED AND ENDANGERED SPECIES/SENSITIVE HABITATS: SECTION 8.2 OF THE EM&CP.
4. ADIRONDACK PARK: SECTION 7.1.4 OF THE EM&CP
5. AGRICULTURAL LANDS: SECTION 7.1.6 OF THE EM&CP.

SEGMENT 2 – TREE AND VEGETATION CLEARING METHODS

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STATE OF NEW YORK · JOSEPH P. ROMANO · 081993 · LICENSED PROFESSIONAL ENGINEER
09/18/2022

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No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
0	09/21/2022	FINAL EM&CP SUBMISSION	JM	JR

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 2 - ROUTE 22: DRESDEN - WHITEHALL
EM&CP DATA TABLES

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. G-012

DRAWN BY: JJE DESIGNED BY: JTM APPROVED BY: JPR SCALE AS NOTED REV. NO. X DATE 09/21/2022 SH.NO. XXX OF XXX

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TABLE 11.3 NYSDOT COORDINATION SUMMARY		
COORDINATING PARTIES	DESCRIPTION	CURRENT STATUS
CERTIFICATE HOLDERS, DPS STAFF, NYSDOT	ALL PLANS AND WORK TO BE PERFORMED IN STATE-OWNED ROW UNDER NYSDOT'S SUPERVISION AND MANAGEMENT.	ONGOING THROUGHOUT
CERTIFICATE HOLDERS, DPS STAFF, NYSDOT STAFF	CERTIFICATE HOLDERS SHALL PROVIDE DPS STAFF AND NYSDOT STAFF WITH A PRELIMINARY DESIGN MARKED TO AVOID CONFLICT WITH POTENTIAL TRANSPORTATION PROJECTS THAT NYSDOT STAFF MAY SEEK TO UNDERTAKE IN THE FUTURE AND SHALL OFFER TO CONSULT WITH NYSDOT STAFF CONCERNING ANY COMMENTS IT MAY OFFER AND SHALL USE REASONABLE EFFORTS TO ACCOMMODATE ANY NYSDOT CONCERNS (CC#68).	PRIOR TO FILING ANY SEGMENT EM&CP INVOLVING ANY SUCH STATE-OWNED ROW.
CERTIFICATE HOLDERS, NYSDOT, AGENCY CROSSED BY PROJECT	CERTIFICATE HOLDERS WILL CONSULT WITH EACH TRANSPORTATION DEPARTMENT OR AGENCY HAVING JURISDICTION OVER ANY ROADS, RELATED STRUCTURES, AND COMPONENTS THAT WILL BE CROSSED BY THE FACILITY OR USED FOR DIRECT ACCESS TO THE CONSTRUCTION ZONE. IF THE ACCESS ROAD TAKES DIRECT ACCESS FROM, OR LIES WITHIN THE LIMITS OF, SUCH ROADS, THE CERTIFICATE HOLDERS WILL NOTIFY EACH RELEVANT TRANSPORTATION DEPARTMENT OR AGENCY OF THE APPROXIMATE DATE WHEN WORK WILL BEGIN (CC#69A).	DURING PREPARATION OF THE EM&CP AND WHEN WORK BEGINS.
CERTIFICATE HOLDERS, NYSDOT, DPS STAFF, NYSDEC	THE CERTIFICATE HOLDERS WILL PROVIDE STATUS REPORTS SUMMARIZING CONSTRUCTION AND INDICATING CONSTRUCTION ACTIVITIES AND LOCATIONS SCHEDULED FOR THE NEXT MONTH (CC#47).	BI-WEEKLY.

SEGMENT 2 – NYSDOT COORDINATION SUMMARY

TABLE 12.1 SEGMENT 1 – CO-LOCATED INFRASTRUCTURE CONSULTATION SUMMARY							
OWNER	UTILITY	INITIAL CONTACT DATE	INITIAL CI-OWNER RESPONSE	OUTREACH MAILING #2	OUTREACH MAILING #3	OUTREACH MAILING #4	SUMMARY OF CI-OWNER RESPONSE
AT&T	FIBER/TELEPHONE	9/9/22	CROSSING CONDITIONS RECEIVED	1/27/22 EMAIL SENT WITH .KMZ DIGITAL MAP OF ROUTE AND REQUEST FOR RECORDS, DATA & INFORMATION OF CI ALONG PROJECT ROUTE.	4/13/22 PLAN & PROFILE DRAWINGS PROVIDED FOR REVIEW. RESPONSES REQUESTED BY 4/29/22.	N/A	NO AT&T CORE FACILITIES IN WASHINGTON COUNTY.
LEVEL 3 COMMUNICATIONS (NOW LUMEN TECHNOLOGIES)	FIBER	9/10/22	SUPPORT SERVICES AGREEMENT IN PLACE. CROSSING CONDITIONS RECEIVED. REIMBURSEMENT FUND ESTABLISHED.	1/27/22 EMAIL SENT WITH .KMZ DIGITAL MAP OF ROUTE AND REQUEST FOR RECORDS, DATA & INFORMATION OF CI ALONG PROJECT ROUTE.	4/13/22 PLAN & PROFILE DRAWINGS PROVIDED FOR REVIEW. RESPONSES REQUESTED BY 4/29/22.	7/11/22 UPDATED PLAN AND PROFILE DRAWINGS PROVIDED FOR REVIEW	CONCURRED THAT ALIGNMENT IS ACCEPTABLE PROVIDED THAT THE SPECIFIED SEPARATION DISTANCES AND CONCRETE ENCASEMENT ARE OBSERVED/PROVIDED
NATIONAL GRID/EAST/ELECTRIC	ELECTRIC/ GAS	9/10/22	CROSSING CONDITIONS RECEIVED.	1/27/22 EMAIL SENT WITH .KMZ DIGITAL MAP OF ROUTE AND REQUEST FOR RECORDS, DATA & INFORMATION OF CI ALONG PROJECT ROUTE. RECEIVED LOCATIONS OF OVERHEAD ELECTRIC LINES.	4/29/22 PLAN & PROFILE DRAWINGS PROVIDED FOR REVIEW. RESPONSES REQUESTED BY 4/29/22.	ON-GOING COORDINATION	CI OWNER PROVIDED ADDITIONAL UTILITY LOCATION INFORMATION WHICH HAS BEEN INCLUDED IN REVISED PLAN/PROFILE
TIME WARNER CABLE (CHARTER COMMUNICATIONS /SPECTRUM)	FIBER/CATV	8/10/22	NO ACTION REQUIRED UNTIL PLANS ARE AVAILABLE FOR REVIEW.	1/27/22 EMAIL SENT WITH .KMZ DIGITAL MAP OF ROUTE AND REQUEST FOR RECORDS, DATA & INFORMATION OF CI ALONG PROJECT ROUTE.	4/14/22 PLAN & PROFILE DRAWINGS PROVIDED FOR REVIEW. RESPONSES REQUESTED BY 4/29/22.	ON-GOING COORDINATION	NOTED CROSSINGS MISSING FROM MATRIX PROVIDED. NO SEPARATION REQUIREMENT SPECIFIED.
VERIZON OR VERIZON/EAST	TELECOM; FIBER/TELEPHONE	8/10/22	NO ACTION REQUIRED UNTIL PLANS ARE AVAILABLE FOR REVIEW.	1/27/22 EMAIL SENT WITH .KMZ DIGITAL MAP OF ROUTE AND REQUEST FOR RECORDS, DATA & INFORMATION OF CI ALONG PROJECT ROUTE.	4/14/22 PLAN & PROFILE DRAWINGS PROVIDED FOR REVIEW. RESPONSES REQUESTED BY 4/29/22.	NOT NEEDED	VERIZON RESPONDED THAT THEY WILL NOT NEED TO RELOCATE ANY OF THEIR FACILITIES/INFRASTRUCTURE. MAY PROVIDE FOREMAN CONTRACTOR IF AN IMMEDIATE RESPONSE IS REQUIRED. NO SEPARATION REQUIREMENT SPECIFIED.
NYSDOT ALBANY REGION 1	TRAFFIC SIGNALS HIGHWAY	ONGOING FOR A NUMBER OF YEARS. SEE TABLE 11.3 IN THE EM&CP	N/A	N/A	1/27/22 PLAN & PROFILE DRAWINGS PROVIDED FOR REVIEW.	ON-GOING COORDINATION	PROVIDED SIGN/SEALED DRAWINGS TO NYSDOT ON 9/20/22 IN RESPONSE TO MOST RECENT NYSDOT COMMENTS AND ASKED FOR CONFIRMATION THAT COMMENTS HAVE BEEN SUFFICIENTLY ADDRESSED
WASHINGTON COUNTY	STORM SEWER/ SANITARY SEWER/WATER	8/31/22	N/A	N/A	N/A	ON-GOING COORDINATION	AWAITING RESPONSE
TOWN OF DRESDEN	STORM SEWER/ SANITARY SEWER	8/7/22	DRAFT PLAN & PROFILE SENT FOR REVIEW.	N/A	1/27/22 PLAN & PROFILE DRAWINGS PROVIDED FOR REVIEW.	ON-GOING COORDINATION	NO CONCERNS EXPRESSED BY TOWN
TOWN OF WHITEHALL	TRAFFIC SIGNALS/ STORM SEWER/ CULVERTS/ SANITARY SEWER/WATER	8/7/22	DRAFT PLAN & PROFILE SENT FOR REVIEW.	N/A	1/27/22 PLAN & PROFILES DRAWINGS SENT FOR REVIEW.	ON-GOING COORDINATION	NO CONCERNS EXPRESSED BY TOWN
VILLAGE OF WHITEHALL	TRAFFIC SIGNALS/ STORM SEWER/CULVERTS/SANITARY SEWER/WATER	8/8/22	DRAFT PLAN & PROFILE SENT FOR REVIEW.	N/A	1/27/22 PLAN & PROFILE DRAWINGS SENT FOR REVIEW.	ON-GOING COORDINATION	DPW CONFIRMED CONCURRENCE WITH ALIGNMENT

SEGMENT 2 – CO-LOCATED INFRASTRUCTURE CONSULTATION SUMMARY

SEGMENT 2 – RESTORATION METHODS	
LAND USE	SECTION OF EMCP
LANDSCAPING	NOT APPLICABLE TO SEGMENT 1&2
STREAMS AND WATERBODIES	13.2.3
CONSTRUCTION MATERIALS AND EQUIPMENT STAGING LOCATIONS AND TEMPORARY ACCESS ROADS	13.2.4
PAVEMENT AND ROADWAY	13.2.5
RECREATIONAL AREAS	13.2.6
ACCESS ROADS AND LAYDOWN AREAS WITHIN AGRICULTURAL LANDS	13.4.1
DRAINAGE FEATURES	13.4.2
GENERAL AGRICULTURAL LANDS	13.4

NOTES:
1. SECTION 13.0 OF THE EM&CP DESCRIBES THE CLEANUP STANDARDS AND PROCEDURES THAT WILL BE FOLLOWED THROUGHOUT THIS SEGMENT ONCE CONSTRUCTION IS COMPLETE. THE TABLE ABOVE SUMMARIZES THE APPROPRIATE SUBSECTION WITH SECTION 13 THAT INCLUDES THE RESTORATION PROCEDURE FOR EACH TYPE OF LAND USE.

SEGMENT 2 – RESTORATION METHODS

TABLE 4.1 – HDD LOCATIONS	
STAGING AREA DESCRIPTION	LOCATION (APPROXIMATE – SEE DRAWINGS FOR DETAILS)
HDD-2 ENTRY AREA	12920+50 (C-128 & C-129)
HDD-2 EXIT AREA	12951+00 (C-131)

NOTE: SECTION 4.2 AND APPENDIX J OF THE EM&CP SUMMARIZE THE PROCEDURES AND SPECIFICATIONS TO BE FOLLOWED FOR ALL HDD CONSTRUCTION.

SEGMENT 2 – HDD LOCATIONS

NOT FOR CONSTRUCTION
FOR EM&CP PERMIT ONLY

CHPE Champlain Hudson Power Express

Kiewit

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STATE OF NEW YORK · JOSEPH P. ROMANO · 081993 · LICENSED PROFESSIONAL ENGINEER
09/21/2022

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No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
0	09/21/2022	FINAL EM&CP SUBMISSION	JM	JR

DRAWN BY: JJE DESIGNED BY: JTM APPROVED BY: JPR

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 2 - ROUTE 22: DRESDEN - WHITEHALL
EM&CP DATA TABLES

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. G-013

SCALE AS NOTED | DATE 09/21/2022
REV. NO. X | SH.NO. XXX OF XXX

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SEGMENT 2 – CO LOCATED UTILITIES			
UTILITY TYPE UNDERGROUND (UG) OVERHEAD (OH)	PARALLEL OR PERPENDICULAR TO THE ALIGNMENT	LOCATION (APPROXIMATE – SEE DRAWINGS FOR DETAILS)	
		STATION – STARTING POINT FOR PARALLEL AND CROSSING POINT FOR PERPENDICULAR	STATION – ENDING POINT FOR PARALLEL
STORM DRAINAGE PIPE/CULVERT	PARALLEL	12516+60	12517+50
OH UTILITY (ELECTRIC)	PERPENDICULAR	12519+00	N/A
UG UTILITY (FIBER)	PERPENDICULAR	12520+00	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12520+00	N/A
OH UTILITY (ELECTRIC)	PERPENDICULAR	12530+00	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12533+25	N/A
OH UTILITY (FIBER)	PERPENDICULAR	12535+75	N/A
OH UTILITY (ELECTRIC)	PERPENDICULAR	12538+25	N/A
OH UTILITY (FIBER)	PERPENDICULAR	12538+25	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12538+70	N/A
OH UTILITY (FIBER)	PERPENDICULAR	12538+75	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12542+55	N/A
UG UTILITY (FIBER)	PERPENDICULAR	12544+00	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12548+75	N/A
OH UTILITY (ELECTRIC)	PERPENDICULAR	12550+20	N/A
STORM DRAINAGE PIPE/CULVERT	PARALLEL	12551+05	12551+35
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12554+20	N/A
OH UTILITY (FIBER)	PERPENDICULAR	12556+75	N/A
OH UTILITY (TRANSMISSION)	PERPENDICULAR	12560+85	N/A
OH UTILITY (FIBER)	PERPENDICULAR	12562+40	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12565+90	N/A
STORM DRAINAGE PIPE/CULVERT	PARALLEL	12567+90	12568+20
OH UTILITY (ELECTRIC)	PERPENDICULAR	12575+00	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12576+00	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12579+30	N/A
OH UTILITY (ELECTRIC)	PERPENDICULAR	12591+50	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12592+45	N/A
STORM DRAINAGE PIPE/CULVERT	PARALLEL	12593+60	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12599+25	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12604+60	N/A
OH UTILITY (ELECTRIC)	PERPENDICULAR	12607+75	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12610+40	N/A
OH UTILITY (ELECTRIC)	PERPENDICULAR	12610+40	N/A
OH UTILITY (ELECTRIC)	PARALLEL	12610+40	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12612+90	N/A
OH UTILITY (ELECTRIC)	PERPENDICULAR	12613+45	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12619+52	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12630+98	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12639+90	N/A
STORM DRAINAGE PIPE/CULVERT	PARALLEL	12643+50	N/A
OH UTILITY (ELECTRIC)	PERPENDICULAR	12649+50	N/A
OH UTILITY (FIBER)	PERPENDICULAR	12652+00	N/A
STORM DRAINAGE PIPE/CULVERT	PARALLEL	12654+45	N/A
STORM DRAINAGE PIPE/CULVERT	PARALLEL	12655+90	N/A
UG UTILITY (FIBER)	PARALLEL	12659+25	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12664+75	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12666+60	N/A
OH UTILITY (ELECTRIC)	PERPENDICULAR	12668+45	N/A
STORM DRAINAGE PIPE/CULVERT	PARALLEL	12668+90	12669+30
OH UTILITY (ELECTRIC)	PERPENDICULAR	12669+45	N/A
STORM DRAINAGE PIPE/CULVERT	PARALLEL	12668+90	12669+30
OH UTILITY (FIBER)	PERPENDICULAR	12670+75	N/A
STORM DRAINAGE PIPE/CULVERT	PARALLEL	12670+90	12671+65
STORM DRAINAGE PIPE/CULVERT	PARALLEL	12672+40	12672+70
OH UTILITY (ELECTRIC)	PERPENDICULAR	12672+55	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12672+70	N/A
STORM DRAINAGE PIPE/CULVERT	PARALLEL	12673+10	12673+42
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12679+80	N/A
OH UTILITY (ELECTRIC)	PERPENDICULAR	12685+00	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12687+25	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12689+95	N/A
OH UTILITY (ELECTRIC)	PERPENDICULAR	12691+00	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12711+75	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12714+95	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12721+55	N/A
STORM DRAINAGE PIPE/CULVERT	PARALLEL	12724+00	12724+20
OH UTILITY (FIBER)	PERPENDICULAR	12727+75	N/A
STORM DRAINAGE PIPE/CULVERT	PARALLEL	12728+85	12729+30
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12730+90	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12737+05	N/A
OH UTILITY (ELECTRIC)	PERPENDICULAR	12739+00	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12744+90	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12748+15	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12754+95	N/A
OH UTILITY (ELECTRIC)	PERPENDICULAR	12760+00	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12761+95	N/A
OH UTILITY (ELECTRIC)	PERPENDICULAR	12764+50	N/A
STORM DRAINAGE PIPE/CULVERT	PARALLEL	12764+50	12764+90
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12776+00	N/A
OH UTILITY (ELECTRIC)	PERPENDICULAR	12781+25	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12785+10	N/A
STORM DRAINAGE PIPE/CULVERT	PARALLEL	12787+00	12787+37
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12790+50	N/A
OH UTILITY (ELECTRIC)	PERPENDICULAR	12791+50	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12796+45	N/A
OH UTILITY (ELECTRIC)	PERPENDICULAR	12800+20	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12802+45	N/A
OH UTILITY (ELECTRIC)	PERPENDICULAR	12805+60	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12805+60	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12818+00	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12820+00	N/A
STORM DRAINAGE PIPE/CULVERT	PARALLEL	12822+70	12823+00
STORM DRAINAGE PIPE/CULVERT	PARALLEL	12823+05	12823+35
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12827+60	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12836+10	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12841+20	N/A
STORM DRAINAGE PIPE/CULVERT	PARALLEL	12841+50	12841+30
OH UTILITY (ELECTRIC)	PERPENDICULAR	12842+15	N/A
STORM DRAINAGE PIPE/CULVERT	PARALLEL	12843+00	12843+40
OH UTILITY (ELECTRIC)	PERPENDICULAR	12843+50	N/A
STORM DRAINAGE PIPE/CULVERT	PARALLEL	12843+90	12844+28
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12846+10	N/A
OH UTILITY (ELECTRIC)	PERPENDICULAR	12852+00	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12853+45	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12856+65	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12861+90	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12863+25	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12867+10	N/A
STORM DRAINAGE PIPE/CULVERT	PARALLEL	12877+50	12877+90
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12880+00	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	123884+90	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12893+45	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12900+05	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12902+90	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12907+75	N/A
STORM DRAINAGE PIPE/CULVERT	PARALLEL	12911+05	12911+86
WATER LINE	PERPENDICULAR	12912+50	N/A
OH UTILITY (ELECTRIC)	PERPENDICULAR	12913+55	N/A
OH UTILITY (TELECOM)	PERPENDICULAR	12913+95	N/A
WATER LINE	PERPENDICULAR	12913+95	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12920+45	N/A
OH UTILITY (ELECTRIC)	PERPENDICULAR	12921+00	N/A
UG UTILITY (FIBER)	PERPENDICULAR	12926+00	N/A
STORM DRAINAGE PIPE/CULVERT	PARALLEL	12926+00	12926+84
UG UTILITY (FIBER)	PARALLEL	12926+00	12930+86
UG UTILITY (FIBER)	PERPENDICULAR	12946+20	N/A
STORM DRAINAGE PIPE/CULVERT	PARALLEL	12946+25	12946+65
WATER LINE	PERPENDICULAR	12950+00	N/A
STORM DRAINAGE PIPE/CULVERT	PARALLEL	12949+55	12949+95
STORM DRAINAGE PIPE/CULVERT	PARALLEL	12950+00	12950+40
OH UTILITY (ELECTRIC)	PERPENDICULAR	12954+20	N/A
STORM DRAINAGE PIPE/CULVERT	PARALLEL	12954+00	12954+42
STORM DRAINAGE PIPE/CULVERT	PARALLEL	12954+15	12954+71
WATER LINE	PERPENDICULAR	12954+75	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12958+45	N/A
STORM DRAINAGE PIPE/CULVERT	PARALLEL	12961+25	12961+60
STORM DRAINAGE PIPE/CULVERT	PARALLEL	12962+10	12962+33
STORM DRAINAGE PIPE/CULVERT	PARALLEL	12962+55	12962+78
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12966+90	N/A
OH UTILITY (ELECTRIC)	PERPENDICULAR	12968+15	N/A
UG UTILITY (FIBER)	PARALLEL	12970+00	13023+75
STORM SEWER	PARALLEL	12970+60	12971+35
UG UTILITY (FIBER)	PERPENDICULAR	12972+25	N/A
OH UTILITY (ELECTRIC)	PARALLEL	12975+40	N/A
WATER LINE	PERPENDICULAR	12976+00	N/A
STORM DRAINAGE PIPE/CULVERT	PARALLEL	12975+85	12976+29
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	12977+55	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	13001+75	N/A
OH UTILITY (FIBER)	PERPENDICULAR	13001+80	N/A
SANITARY SEWER	PARALLEL	13006+00	13032+25
WATER LINE	PARALLEL	13006+00	13012+80
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	13010+00	N/A
OH UTILITY (FIBER)	PERPENDICULAR	13011+75	N/A
SANITARY SEWER	PERPENDICULAR	13022+75	N/A
OH UTILITY (ELECTRIC)	PERPENDICULAR	13022+90	N/A
STORM DRAINAGE PIPE/CULVERT	PARALLEL	13028+20	13028+60
OH UTILITY (ELECTRIC)	PERPENDICULAR	13029+55	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	13030+20	N/A
SANITARY SEWER	PERPENDICULAR	13032+25	N/A
OH UTILITY (FIBER)	PERPENDICULAR	13035+40	N/A
OH UTILITY (FIBER)	PERPENDICULAR	13037+25	N/A
STORM DRAINAGE PIPE/CULVERT	PERPENDICULAR	13036+55	N/A
SANITARY SEWER	PARALLEL	13038+00	13040+00
WATER LINE	PARALLEL	13038+00	13040+00

NOTE: THE TABLE ABOVE SUMMARIZES THE CO-LOCATED INFRASTRUCTURE UTILITIES LOCATED WITHIN THIS SEGMENT. SECTION 12.1 AND APPENDIX R OF THE EM&CP SUMMARIZE THE CO-LOCATED INFRASTRUCTURE CONSULTATIONS AND SECTION 12.3 OF THE EM&CP SUMMARIZE THE PROCEDURES TO BE FOLLOWED FOR EACH UTILITY CROSSING TYPE. APPENDIX R OF THE EM&CP PROVIDES ADDITIONAL DETAILS FOR THE UTILITIES DESCRIBED IN THE TABLE ABOVE INCLUDING UTILITY OWNER, DESCRIPTIONS, SURVEY INFORMATION, AND QUALITY LEVEL.

SEGMENT 2 – CO-LOCATED UTILITY SUMMATION

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STATE OF NEW YORK · JOSEPH P. ROMANO · 081993 · LICENSED PROFESSIONAL ENGINEER
09/18/2022

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No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
0	09/21/2022	FINAL EM&CP SUBMISSION	JM	JR

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 2 - ROUTE 22: DRESDEN - WHITEHALL
EM&CP DATA TABLES

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 068076
DRAWING NO. G-014

DRAWN BY: JJE | DESIGNED BY: JTM | APPROVED BY: JPR | SCALE AS NOTED | REV. NO. X | DATE 09/21/2022 | SH.NO. XXX OF XXX

File: V:\PROJECTS\ANY\K6\066076.000\09_DESIGN\DRAWINGS\01_SHEETS\DESIGN PACKAGE 1\DESIGN PACKAGE 1B\066076_P1B - G-011-G-013.DWG Saved: 9/18/2022 3:22:43 PM Plotted: 9/18/2022 3:46:42 PM Current User: Bouillon, Hugo LastSavedBy: 7895

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 PACKAGE 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. ALL FABRICATED DEBRIS RESULTING FROM CONSTRUCTION WILL BE DISPOSED OF AT AN APPROVED DISPOSAL SITE IN COMPLIANCE WITH ALL APPROPRIATE ENVIRONMENTAL REGULATIONS. FABRICATED DEBRIS GENERATED DURING CONSTRUCTION INCLUDES PIPING, FENCING, WIRING, AND ANY OTHER MATERIALS USED DURING CONSTRUCTION. NO FABRICATED DEBRIS BE BURNED OR BURIED. ALL TRUCKS LEAVING THE CONSTRUCTION AREA WILL BE LOADED AND COVERED IN ACCORDANCE WITH APPLICABLE REGULATIONS AS NEEDED AS DESCRIBED IN THE SOIL MANAGEMENT PLAN OF THE EM&CP IN APPENDIX L.

RESTORATION AND PLANTING

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

SITE PREPARATION FOR REVEGETATION

THE SURFACE OF THE ROAD AND CONSTRUCTION ROWS DISTURBED BY CONSTRUCTION ACTIVITIES WILL BE GRADED TO MATCH THE ORIGINAL TOPOGRAPHIC CONTOURS AND TO BE COMPATIBLE WITH SURROUNDING DRAINAGE PATTERNS WHERE APPROPRIATE. IT SHOULD BE NOTED THAT SUBCONTRACTORS WILL TYPICALLY LIMIT GRUBBING (THE REMOVAL OF STUMPS AND ROOTS) TO THE FOOTPRINT OF THE EXCAVATED TRENCH AND ACCESS ROADS TO ALLOW RE-SPROUTING AND ASSIST IN THE RECOVERY OF WOODY SPECIES, EXCEPT WHERE REMOVAL IS REQUIRED FOR SAFE CONSTRUCTION. WHERE NEEDED, IT MAY BE NECESSARY TO IMPORT TOPSOIL TO RETURN AN AREA TO GRADE. IMPORTED TOPSOIL WILL FOLLOW CLASSIFICATION AND CHARACTERIZATION MEASURES OUTLINED IN THE SOIL 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 4.3.3 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

NOTES: SEEDING OPERATIONS ACROSS THE 35-FOOT-WIDE CONSTRUCTION AND FACILITY ROWS AS WELL AS WITHIN STAGING AND LAYDOWN AREAS WILL COMMENCE ONLY AFTER AN ACCEPTABLE SEEDBED HAS BEEN ESTABLISHED, AS DESCRIBED ABOVE. SEED WILL BE APPLIED BY HAND, OR VIA HYDRO-SEEDERS. THE ENTIRE SEEDED AREA WILL BE WATERED WITH A FINE SPRAY UNTIL A UNIFORM MOISTURE DEPTH OF APPROXIMATELY ONE (1) INCH HAS BEEN OBTAINED, AS APPLICABLE. MULCHING AND ANCHORING OF THE MULCH MAY BE NECESSARY IN SOME AREAS UNLESS A HYDROMULCH/SEED SLURRY IS USED. ON STEEP SLOPES (GREATER THAN 3:1), JUTE NET WILL BE USED TO PROVIDE STABILIZATION. FERTILIZER WILL BE ADDED, AS APPLICABLE, AT THE APPROPRIATE RATES AFTER SEED IS APPLIED AND/OR TO A HYDROMULCH/SEED SLURRY TO BUFFER AREAS BUT NOT FOR 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 WILL BE PROVIDED TO THE ENVIRONMENTAL INSPECTOR EITHER ORIGINAL TAGS OR SCANNED COPIES. SEEDED AREAS WILL BE MONITORED FOLLOWING RESTORATION UNTIL A MINIMUM VEGETATIVE COVER OF EIGHTY (80) PERCENT IS ACHIEVED. FOR WETLAND RESOURCE AREAS, EMERGENT COMMUNITIES SHOULD BE REVEGETATED WITH AN ERNST FACW WETLAND MEADOW MIX (ERNMX-122) OR EQUIVALENT, AND FOR SHADED SITES WITHIN FORESTED/SHRUB-SHRUB WETLAND COMMUNITIES, DISTURBED AREAS SHOULD BE REVEGETATED WITH ERNST SPECIALIZED WETLAND MIX FOR SHADED AREAS (ERNMX-137) OR EQUIVALENT.

THE MAJORITY OF SOIL EXCAVATION WILL BE FOR THE TRENCH-LINE FOR THE CONDUIT/CABLE. HOWEVER, SOME EXCAVATION WILL BE PERFORMED TO CONSTRUCTION TEMPORARY ACCESS ROADS AS DESCRIBE IN SECTION 4.9 OF THE EM&CP. ALL TRENCH AREAS AND OTHER EXCAVATED AREAS WILL BE RESEEDED WITH AN APPROPRIATE SEED MIX AS IDENTIFIED ABOVE. VEGETATION THROUGHOUT THE CONSTRUCTION ROW WILL BE CUT TO GROUND LEVEL AND ROOT SYSTEMS WILL REMAIN INTACT TO ALLOW FOR RESPROUTING FOLLOWING CONSTRUCTION, UNLESS RESPROUTING WOULD INTERFERE WITH THE SAFE AND RELIABLE OPERATION OF THE PROJECT.

ALL TREES OVER TWO (2) INCHES IN DIAMETER AT BREAST HEIGHT OR SHRUBS OVER FOUR (4) FEET IN HEIGHT DAMAGED OR DESTROYED BY ACTIVITIES DURING CONSTRUCTION, OPERATION, OR MAINTENANCE, ASSOCIATED URBAN, RESIDENTIAL OR ADIRONDACK PARK LANDSCAPED AREAS, WILL BE REPLACED WITHIN THE FOLLOWING YEAR BY THE CERTIFICATE HOLDER 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

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

RESTORATION OF WETLANDS

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

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. FOR UPLANDS AND WETLAND BUFFER ZONES LOCATED WITHIN THE ADIRONDACK PARK SHOULD BE ADIRONDACK SEED.

RESTORATION OF CONSTRUCTION MATERIALS AND EQUIPMENT STAGING AND TEMPORARY ACCESS ROADS

THE CONSTRUCTION MATERIALS EQUIPMENT STAGING LOCATIONS AND ACCESS ROADS FOR THIS PACKAGE ARE SHOWN IN THE PLAN AND PROFILE DRAWINGS AND EROSION AND SEDIMENT CONTROL PLAN. THESE AREAS WILL BE RESTORED AS CLOSE AS PRACTICABLE TO PRE-CONSTRUCTION CONDITIONS AND CONTOURS, EXCEPT WHERE THE UNDERLYING LANDOWNER REQUESTS THE ABILITY TO RETAIN ACCESS ROADS OR OTHER STAGING LOCATIONS AS PROPERTY IMPROVEMENTS. RESTORATION WORK WILL FOLLOW APPLICABLE SECTIONS OF THE NYSDAM GUIDANCE "FERTILIZING LIME, AND SEEDING RECOMMENDATIONS FOR RESTORATION OF CONSTRUCTION PROJECTS ON FARMLAND IN NYS.

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. 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. ALL VEGETATION REPLACED WILL HAVE A MINIMUM TWO (2) YEAR SURVIVAL GUARANTEE. TEMPORARY EROSION CONTROLS WILL BE REMOVED ONCE REVEGETATION IS ESTABLISHED. REVEGETATION WILL BE MONITORED UNTIL THERE IS A MINIMUM OF EIGHTY (80) PERCENT REGROWTH. 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.

THE ENVIRONMENTAL INSPECTOR WILL INSPECT ALL PLANTS IN CONTAINERS PRIOR TO PLANTING. PLANTINGS WILL BE PERFORMED BY A QUALIFIED LANDSCAPE OR NURSERY CONTRACTOR. THE ENVIRONMENTAL INSPECTOR WILL INSPECT ALL PLANTS PRIOR TO PLANTING AND 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.

RESTORATION OR SEEDED AREAS WILL BE CONSIDERED TO HAVE MET FINAL STABILIZATION WHEN ALL SOIL DISTURBING ACTIVITIES HAVE CEASED AND A UNIFORM, PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 80 PERCENT.

STORMWATER POLLUTION PREVENTION PLAN (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 SHEETS.

ROADWAY RESTORATION (STRIPING, SIGNAGE, AUDIBLE ROADWAY DELINEATORS)

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

SIGNAGE IMPACTED DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED IN KIND OR REINSTALLED IN ACCORDANCE WITH NYSDOT STANDARD SHEETS AND SPECIFICATIONS (SEE 645 SERIES STANDARD SHEETS).

AUDIBLE ROADWAY DELINEATORS DAMAGED OR REMOVED DUE TO CONSTRUCTION SHALL BE INSTALLED DURING RE-PAVING OPERATIONS IN ACCORDANCE WITH NYSDOT STANDARD SHEET 649-03.

RESTORATION OF ROADWAY SHOULDER

THESE AREAS WILL BE RESTORED AS CLOSE AS PRACTICABLE TO PRE-CONSTRUCTION CONDITIONS AND CONTOURS. TRENCHES WILL BE BACKFILLED THE APPROPRIATE DETAIL, FULL WIDTH OF THE TRENCH WILL BE RESTORED TO MATCH THE EXISTING PAVEMENT SHOULDER SECTION, THE FULL WIDTH OF THE SHOULDER WILL BE MILLED AND OVERLAYED WITH A TOP COURSE OF ASPHALT. 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.

RESTORATION OF COUNTY ROAD 3 AND LAKE ROAD

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 ENTIRE ROAD SECTION 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.

RESTORATION OF RECREATIONAL AREAS

FOLLOWING CONSTRUCTION, THE CERTIFICATE HOLDER WILL RESEED THE CONSTRUCTION AREA WITHIN RECREATIONAL AREAS SUCH AS ADIRONDACK PARK USING THE PROCEDURES AND METHODS SPECIFIED IN THE SECTION 13.2.6 OF THE EM&CP WHERE NEEDED. IF NECESSARY, ADDITIONAL REVEGETATION AND TREE PLANTING MAY BE PERFORMED DEPENDING ON THE IMPACT OF CONSTRUCTION.

PAVEMENT RESTORATION

CURRENTLY, NO RESTORATION NEEDS IN URBAN/RESIDENTIAL AREAS HAVE BEEN IDENTIFIED WITHIN SEGMENT 1 AND 2. AS DESCRIBED IN THE CERTIFICATE CONDITIONS, CURBS, SIDEWALKS, AND STREETS DAMAGED BY CONSTRUCTION WILL BE RESTORED TO PRE-EXISTING CONDITION OR BETTER. THE CERTIFICATE HOLDER WILL CONSULT, WHERE APPLICABLE, THE MUNICIPAL ROAD OR HIGHWAY DEPARTMENT AND/OR THE REGIONAL OFFICE OR COUNTY ENGINEER OF THE NYSDOT IN ORDER TO IDENTIFY AND INCORPORATE APPLICABLE SPECIFICATIONS FOR CURB, SIDEWALK, OR STREET RESTORATION. ALL SURFACE RESTORATION WILL FOLLOW THE APPLICABLE DETAIL.. GUIDE RAILS WILL BE REMOVED AND REPLACED IN ACCORDANCE WITH NYSDOT STANDARD SHEET 606-01. COUNTY ROAD 3 IN SEGMENT 1 WILL BE RESTORED UNDER COUNTY RESTORATION REQUIREMENT SPECIFIED ABOVE, AND AS SHOWN IN THE APPLICABLE DETAIL.

SEED MIXES

A. GENERAL SEED:
1. PIPELINE MIX W/SWITCHGRASS (ERNMX-102-1)
2. MIX COMPOSITION
   - 33.0% PANICUM VIRGATUM, 'SHAWNEE' (SWITCHGRASS, 'SHAWNEE')
   - 25.0% FESTUCA RUBRA (CREEPING RED FESCUE)
   - 18.0% LOLIUM MULTIFLORUM (ANNUAL RYEGRASS)
   - 16.0% PHLEUM PRATENSE, CLIMAX (TIMOTHY, CLIMAX)
   - 5.0% TRIFOLIUM HYBRIDUM (ALSIKE CLOVER)
   - 3.0% AGROSTIS ALBA (REDTOP)
3. APPLIED AT A RATE OF 40 LBS/ACRE.

B. ADIRONDACK SEED:
1. MIX COMPOSITION
   - 25% VIRGINIA WILD RYE (ELYMUS VIRGINICUS VAR. VIRGINICUS)
   - 25% CANADA WILD RYE (ELYMUS CANADENSIS)
   - 25% AUTUMN BENTGRASS (AGROSTIS PERENNANS)
   - 25% CAMPER LITTLE BLUESTEM (SCHIZACHYRIUM SCOPARIUM)
2. APPLIED AT A RATE OF 40 LBS/ACRE.

C. SPECIALIZED WETLAND MIX FOR SHADED OBL-FACW AREAS (ERNMX-137)
1. MIX COMPOSITION
   - 35.0% CAREX VULPINOIDEA, PA ECOTYPE (FOX SEDGE, PA ECOTYPE)
   - 20.0% ELYMUS VIRGINICUS, MADISON-NY ECOTYPE (VIRGINIA WILDRYE, MADISON-NY ECOTYPE)
   - 15.0% CAREX SCOPARIA, PA ECOTYPE (BLUNT BROOM SEDGE, PA ECOTYPE)
   - 12.8% CAREX LURIDA, PA ECOTYPE (LURID SEDGE, PA ECOTYPE)
   - 5.0% CAREX LUPULINA, PA ECOTYPE (HOP SEDGE, PA ECOTYPE)
   - 4.0% VERBENA HASTATA, PA ECOTYPE (BLUE VERVAIN, PA ECOTYPE)
   - 2.0% HELIOPSIS HELIANTHOIDES, PA ECOTYPE (OXEYE SUNFLOWER, PA ECOTYPE)
   - 1.0% CAREX INTUMESCENS, PA ECOTYPE (STAR SEDGE, PA ECOTYPE)
   - 1.0% SPARGANIUM AMERICANUM (EASTERN BUR REED)
   - 0.7% IRIS VERSICOLOR (BLUEFLAG)
   - 0.5% BIDENS CERNUA, PA ECOTYPE (NODDING BUR MARIGOLD, PA ECOTYPE)
   - 0.5% CAREX CRINITA, PA ECOTYPE (FRINGED SEDGE, PA ECOTYPE)
   - 0.5% CAREX STIPATA, PA ECOTYPE (AWL SEDGE, PA ECOTYPE)
   - 0.5% EUPATORIUM PERFOLIATUM, PA ECOTYPE (BONESET, PA ECOTYPE)
   - 0.5% SCIRPUS CYPERINUS, PA ECOTYPE (WOOLGRASS, PA ECOTYPE)
   - 0.5% VERNONIA NOVEBORACENSIS, PA ECOTYPE (NEW YORK IRONWEED, PA ECOTYPE)
   - 0.3% LOBELIA SIPHILITICA, PA ECOTYPE (GREAT BLUE LOBELIA, PA ECOTYPE)
   - 0.2% PENTHORUM SEDOIDES, PA ECOTYPE (DITCH STONECROP, PA ECOTYPE)
2. APPLIED AT A RATE OF APPROXIMATELY 20 LBS/ACRE, ALONG WITH THE COVER CROP.
3. COVER CROP SHOULD BE APPLIED AT A RATE OF 60-80 LBS/ACRE. COVER CROP TO BE AN ANNUAL RYE. COVER CROP BASED ON SEASON OF RESTORATION AN ANNUAL RYE THROUGH SPRING AND SUMMER AND WINTER RYE FOR LATE FALL.

D. FACW WETLAND MEADOW MIX (ERNMX-122)
1. MIX COMPOSITION
   - 21.0% CAREX VULPINOIDEA, PA ECOTYPE (FOX SEDGE, PA ECOTYPE)
   - 20.0% ELYMUS VIRGINICUS, PA ECOTYPE (VIRGINIA WILDRYE, PA ECOTYPE)
   - 16.0% CAREX LURIDA, PA ECOTYPE (LURID SEDGE, PA ECOTYPE)
   - 12.0% CAREX LUPULINA, PA ECOTYPE (HOP SEDGE, PA ECOTYPE)
   - 12.0% CAREX SCOPARIA, PA ECOTYPE (BLUNT BROOM SEDGE, PA ECOTYPE)
   - 3.0% VERBENA HASTATA, PA ECOTYPE (BLUE VERVAIN, PA ECOTYPE)
   - 2.4% ASCLEPIAS INCARNATA, PA ECOTYPE (SWAMP MILKWEED, PA ECOTYPE)
   - 2.0% JUNCUS EFFUSUS (SOFT RUSH)
   - 2.0% ZIZIA AUREA, PA ECOTYPE (GOLDEN ALEXANDERS, PA ECOTYPE)
   - 1.6% ASTER NOVAE-ANGLIAE, PA ECOTYPE (NEW ENGLAND ASTER, PA ECOTYPE)
   - 1.3% CAREX STIPATA, PA ECOTYPE (AWL SEDGE, PA ECOTYPE)
   - 1.0% BIDENS CERNUA, PA ECOTYPE (NODDING BUR MARIGOLD, PA ECOTYPE)
   - 1.0% JUNCUS TENUIS, PA ECOTYPE (PATH RUSH, PA ECOTYPE)
   - 0.8% SOLIDAGO RUGOSA, PA ECOTYPE (WRINKLELEAF GOLDENROD, PA ECOTYPE)
   - 0.6% VERBENA URTICIFOLIA, PA ECOTYPE (WHITE VERVAIN, PA ECOTYPE)
   - 0.5% CAREX CRINITA, PA ECOTYPE (FRINGED SEDGE, PA ECOTYPE)
   - 0.5% EUPATORIUM PERFOLIATUM, PA ECOTYPE (BONESET, PA ECOTYPE)
   - 0.5% HELENIUM AUTUMNALE, PA ECOTYPE (COMMON SNEEZEWEED, PA ECOTYPE)
   - 0.5% MIMULUS RINGENS, PA ECOTYPE (SQUARE STEMMED MONKEYFLOWER, PA ECOTYPE)
   - 0.3% LOBELIA SIPHILITICA, PA ECOTYPE (GREAT BLUE LOBELIA, PA ECOTYPE)
   - 0.3% SCIRPUS CYPERINUS, PA ECOTYPE (WOOLGRASS, PA ECOTYPE)
   - 0.2% ALISMA SUBCORDATUM, PA ECOTYPE (MUD PLANTAIN, PA ECOTYPE)
   - 0.2% ASTER PUNICEUS, PA ECOTYPE (PURPLESTEM ASTER, PA ECOTYPE)
   - 0.2% ASTER UMBELLATUS, PA ECOTYPE (FLAT TOPPED WHITE ASTER, PA ECOTYPE)
   - 0.1% PENTHORUM SEDOIDES, PA ECOTYPE (DITCH STONECROP, PA ECOTYPE)
2. APPLIED AT A RATE OF APPROXIMATELY 20 LBS/ACRE, ALONG WITH THE COVER CROP.
3. COVER CROP SHOULD BE APPLIED AT A RATE OF 60-80 LBS/ACRE. COVER CROP TO BE AN ANNUAL RYE. COVER CROP BASED ON SEASON OF RESTORATION AN ANNUAL RYE THROUGH SPRING AND SUMMER AND WINTER RYE FOR LATE FALL.

ALL SEED MIXES WILL BE FREE OF INVASIVE SPECIES.

NOT FOR CONSTRUCTION
FOR EM&CP PERMIT ONLY

CHPE Champlain Hudson Power Express

Kiewit

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STATE OF NEW YORK · JOSEPH P. ROMANO · 081993 · LICENSED PROFESSIONAL ENGINEER
09/18/2022

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.

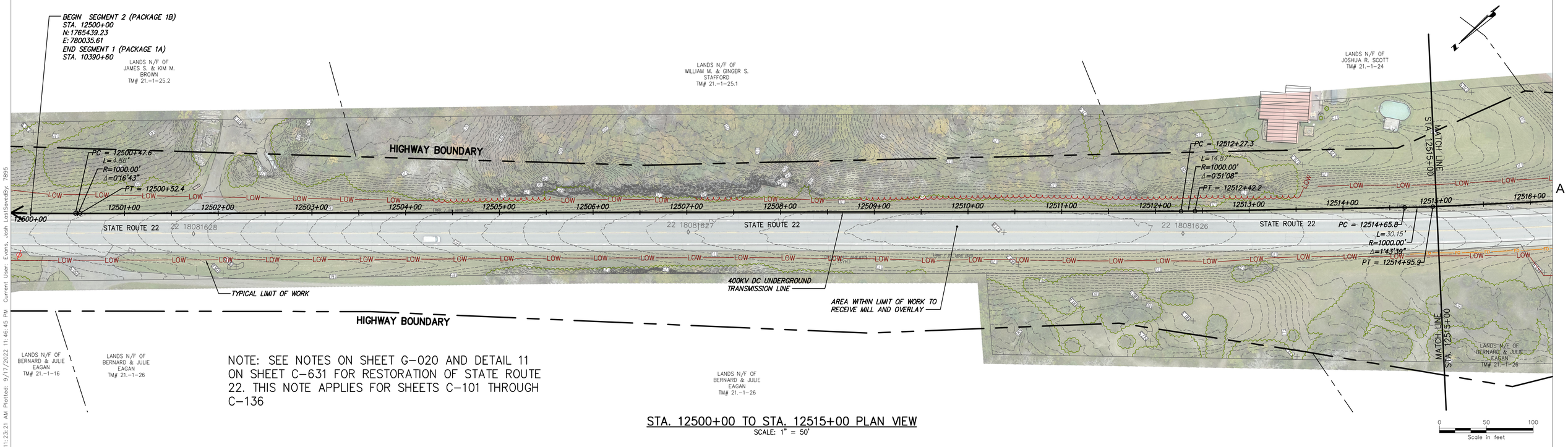
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
0	09/21/2022	FINAL EM&CP SUBMISSION	JM	JR

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 2 - ROUTE 22: DRESDEN - WHITEHALL
RESTORATION NOTES

DRAWN BY: JJE | DESIGNED BY: JTM | APPROVED BY: JPR | SCALE: AS NOTED | REV. NO. X

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. G-020
DATE 09/21/2022
SH.NO. XXX OF XXX

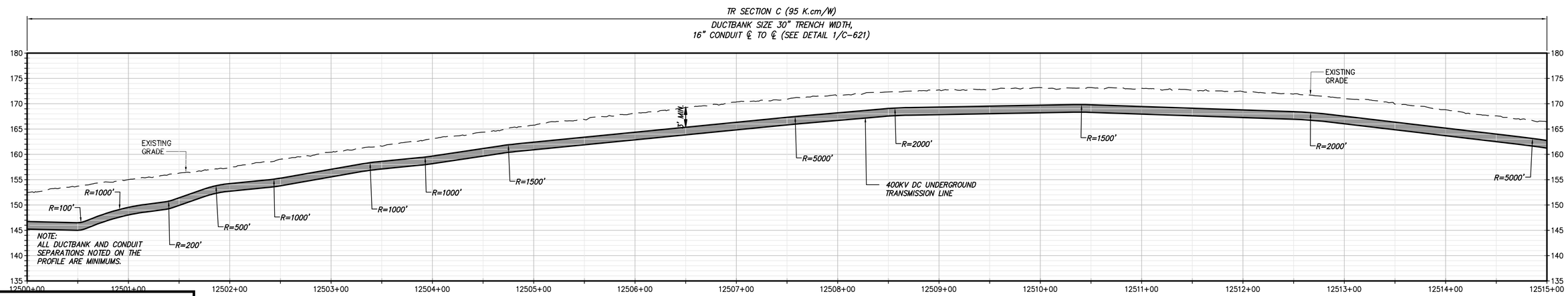
File: V:\PROJECTS\ANY\K6\066076.000\09_DESIGN\DRAWINGS\01_SHEETS\DESIGN PACKAGE 1\DESIGN PACKAGE 1B\066076_1B_G-020.DWG Saved: 9/15/2022 2:17:29 PM Plotted: 9/18/2022 3:47:01 PM Current User: Bouillon, Hugo LastSavedBy: 8314



NOTE: SEE NOTES ON SHEET G-020 AND DETAIL 11 ON SHEET C-631 FOR RESTORATION OF STATE ROUTE 22. THIS NOTE APPLIES FOR SHEETS C-101 THROUGH C-136

STA. 12500+00 TO STA. 12515+00 PLAN VIEW

SCALE: 1" = 50'



STA. 12500+00 TO STA. 12515+00 PROFILE VIEW

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

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09/18/2022

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.

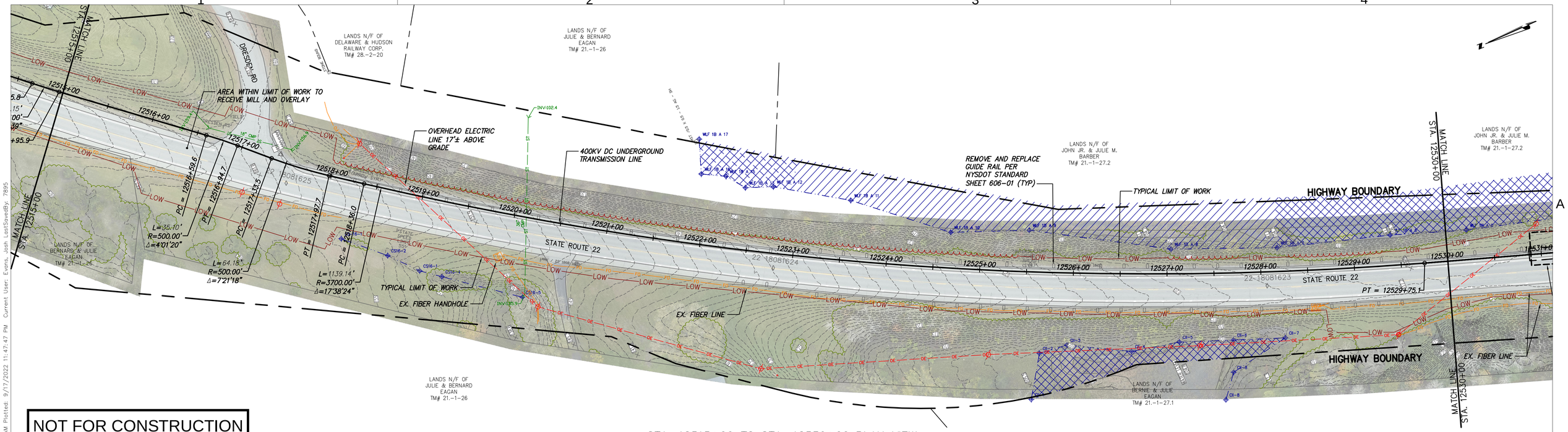
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
0	09/21/2022	FINAL EM&CP SUBMISSION	JM	JR

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 2 - ROUTE 22: DRESDEN - WHITEHALL
STA. 12500+00 TO STA 12515+00 PLAN AND PROFILE

KIEWIT PROJECT NO.	21162
CHA PROJECT NO.	066076
DRAWING NO.	C-101

DRAWN BY: JTM | DESIGNED BY: JTM | APPROVED BY: JPR | SCALE AS NOTED | REV. NO. X | DATE 09/21/2022 | SH.NO. XXX OF XXX

File: V:\PROJECTS\ANY\K6\066076.000\09_DESIGN\DRAWINGS\01_SHEETS\DESIGN PACKAGE 1\DESIGN PACKAGE 1B\066076_P1B - C-101 - C-105.DWG Saved: 9/16/2022 11:23:21 AM Plotted: 9/17/2022 11:46:45 PM Current User: Evans, Josh LastSavedBy: 7895



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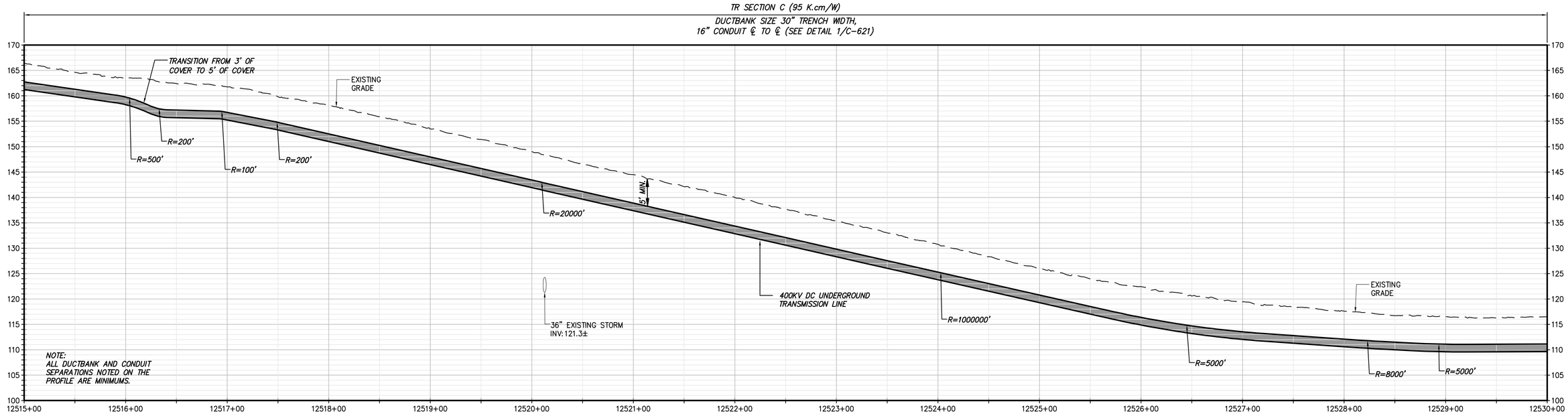
STA. 12515+00 TO STA. 12530+00 PLAN VIEW
SCALE: 1" = 50'



STA. 12515+00 TO STA. 12530+00 PROFILE VIEW
SCALE: H:1" = 50' V:1" = 10'

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No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
0	09/21/2022	FINAL EM&CP SUBMISSION	JM	JR

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 2 - ROUTE 22: DRESDEN - WHITEHALL
STA. 12515+00 TO STA. 12530+00 PLAN AND PROFILE

DRAWN BY: JTM | DESIGNED BY: JTM | APPROVED BY: JPR | SCALE: AS NOTED | REV. NO. X

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. C-102
DATE 09/21/2022
SH.NO. XXX OF XXX

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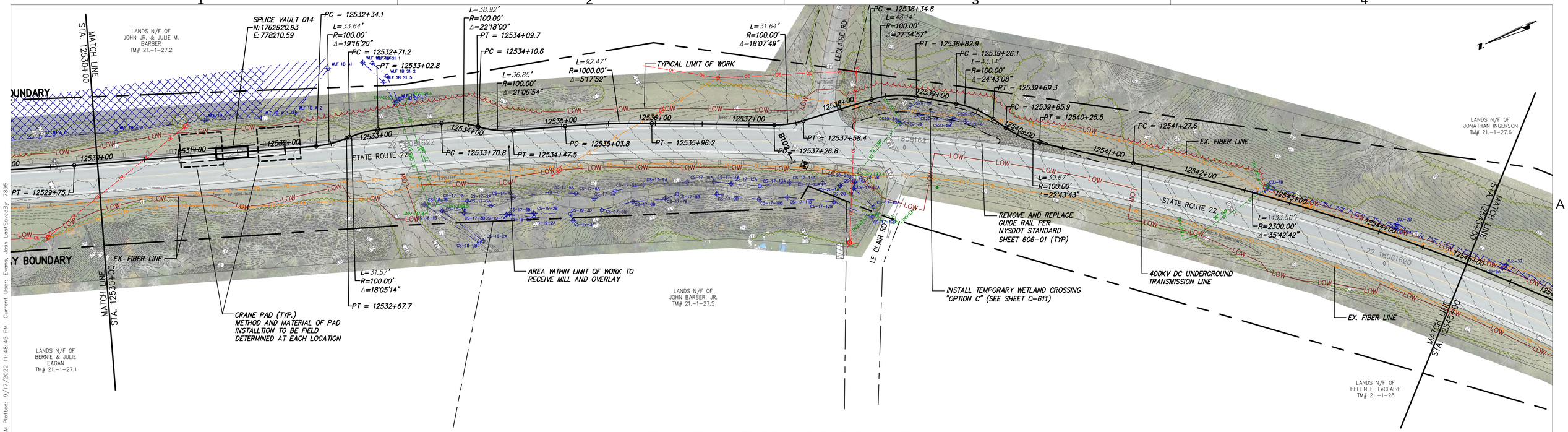

STA. 12530+00 TO STA. 12545+00 PLAN VIEW

SCALE: 1" = 50'

NOT FOR CONSTRUCTION
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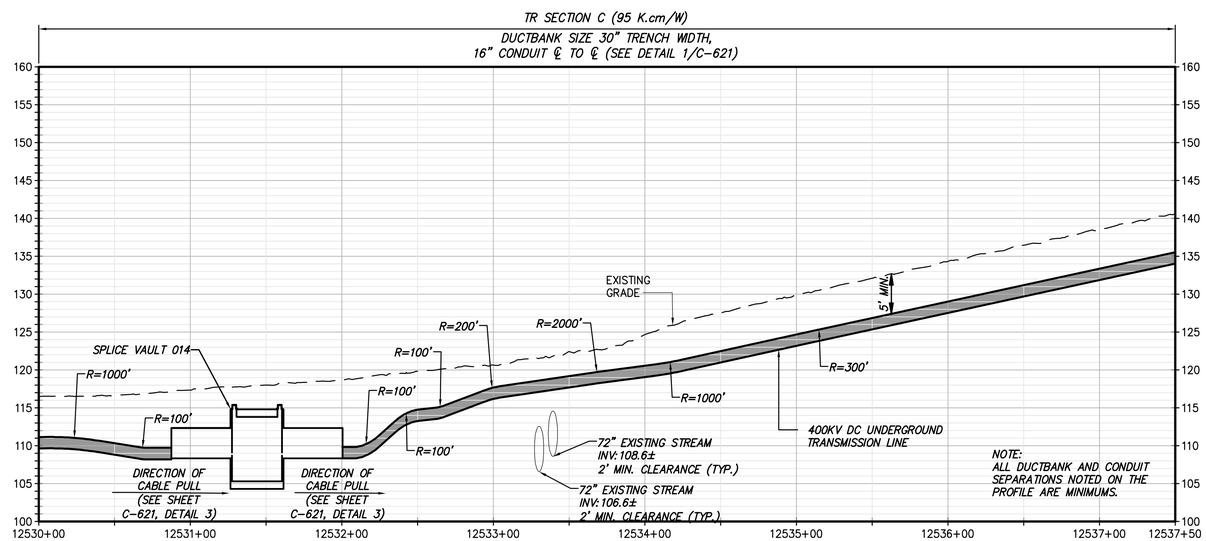

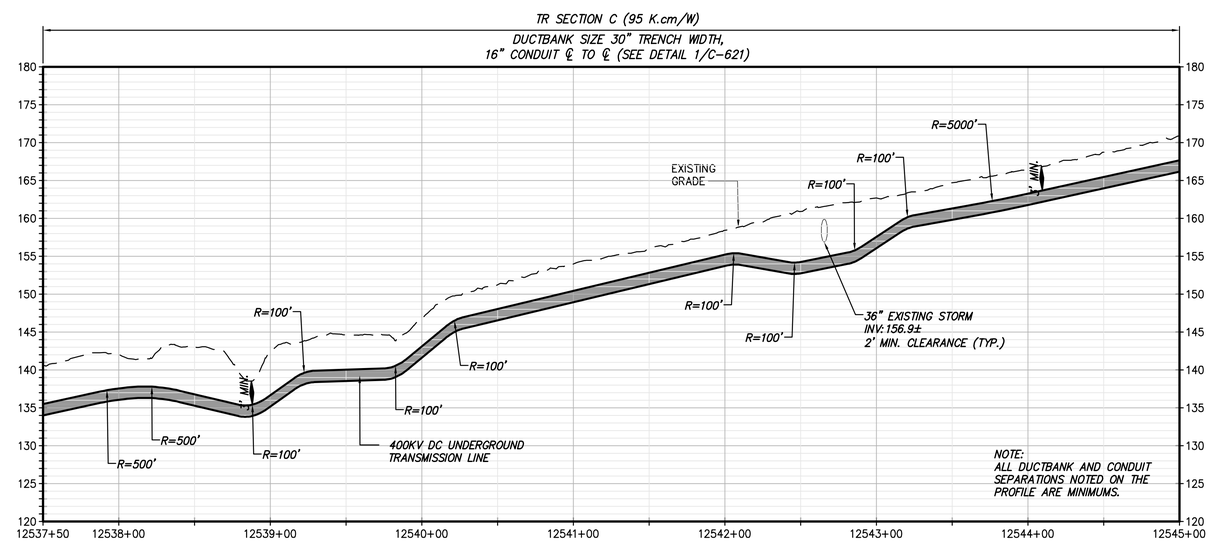

STA. 12530+00 TO STA. 12545+00 PROFILE VIEW

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

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09/18/2022

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No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
0	09/21/2022	FINAL EM&CP SUBMISSION	JM	JR

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 2 - ROUTE 22: DRESDEN - WHITEHALL
STA. 12530+00 TO STA. 12545+00 PLAN AND PROFILE

DRAWN BY: JTM | DESIGNED BY: JTM | APPROVED BY: JPR | SCALE: AS NOTED | REV. NO. X | DATE: 09/21/2022 | SH.NO. XXX OF XXX

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. C-103

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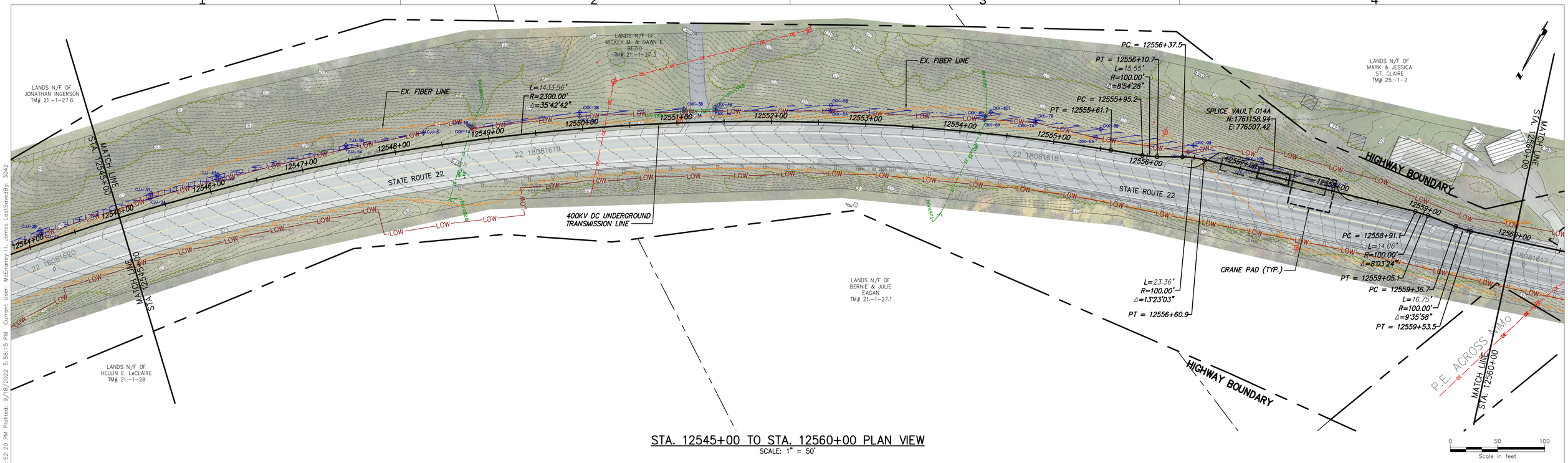
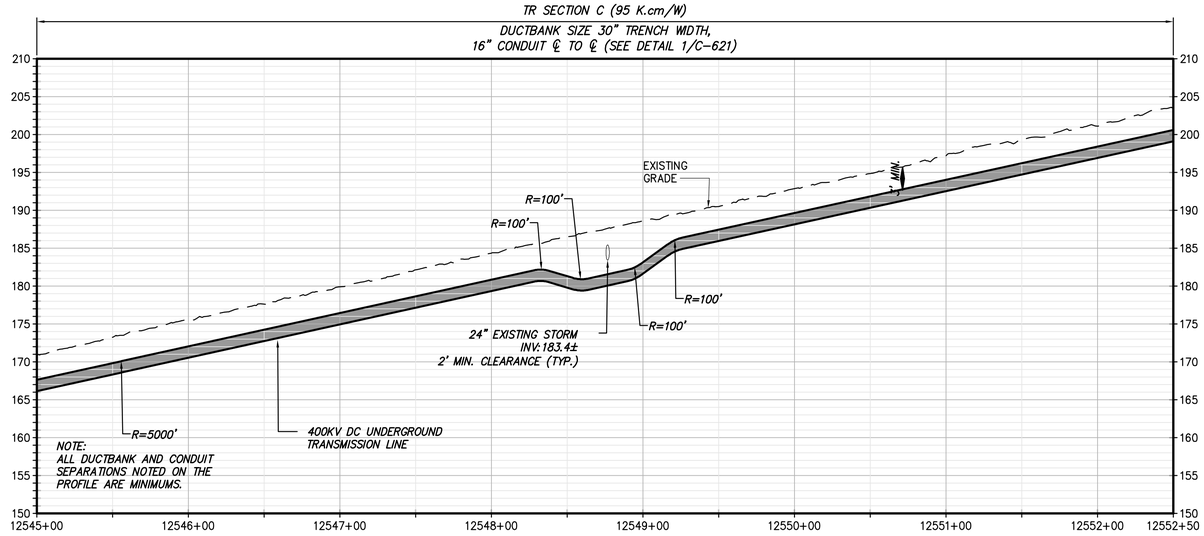
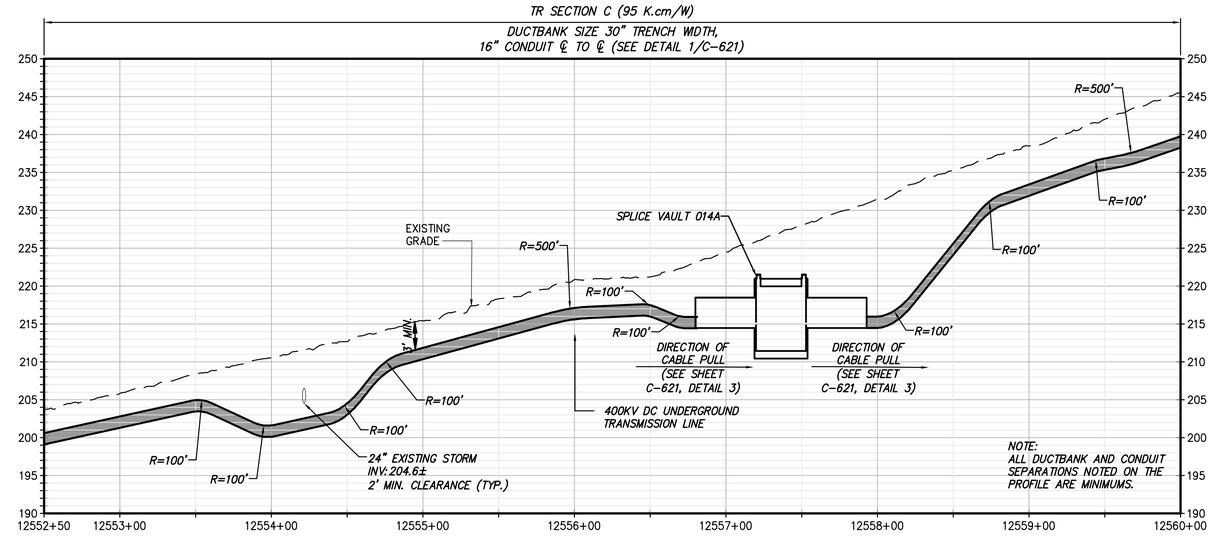


STA. 12545+00 TO STA. 12560+00 PLAN VIEW

SCALE: 1" = 50'





STA. 12545+00 TO STA. 12560+00 PROFILE VIEW

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

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0	09/21/2022	FINAL EM&CP SUBMISSION	JM	JR

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 2 - ROUTE 22: DRESDEN - WHITEHALL
STA. 12545+00 TO STA. 12560+00 PLAN AND PROFILE

DRAWN BY: JTM DESIGNED BY: JTM APPROVED BY: JPR

KIEWIT PROJECT NO.	21162
CHA PROJECT NO.	066076
DRAWING NO.	C-104
SCALE	AS NOTED
REV. NO.	X
DATE	09/21/2022
SH.NO.	XXX OF XXX

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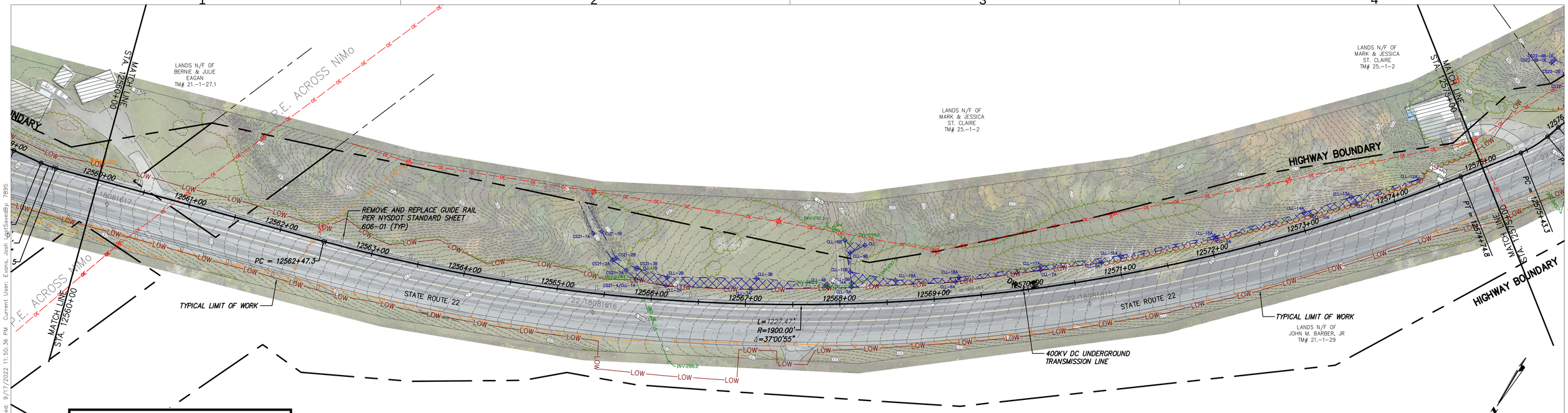
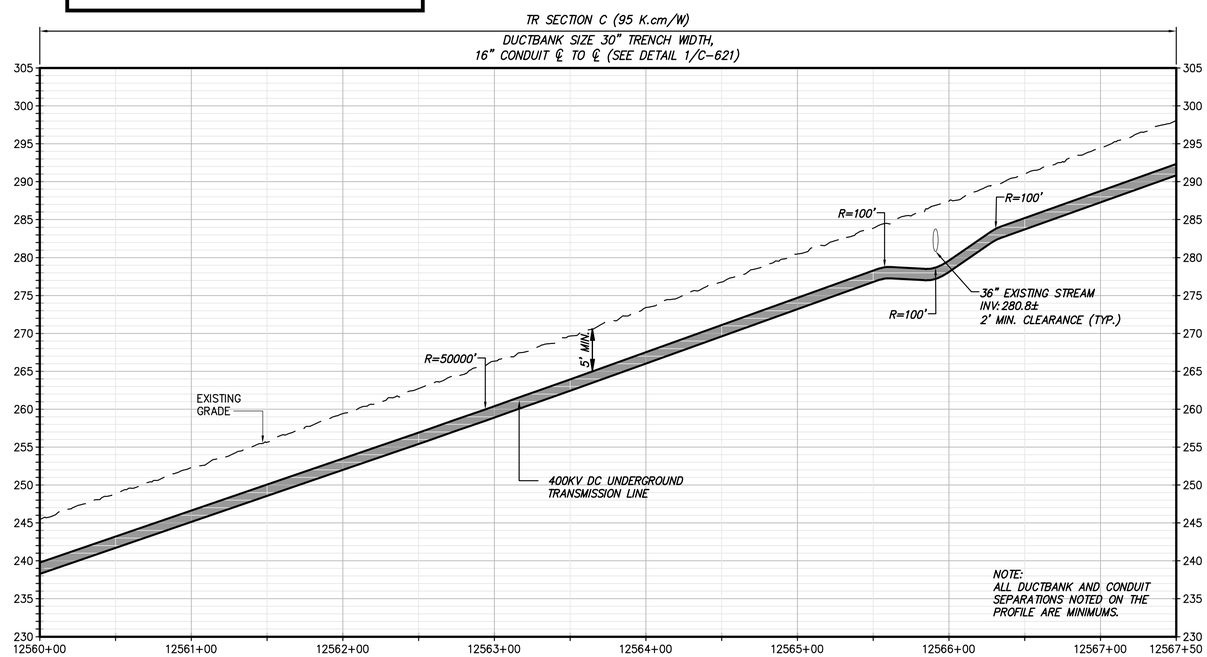


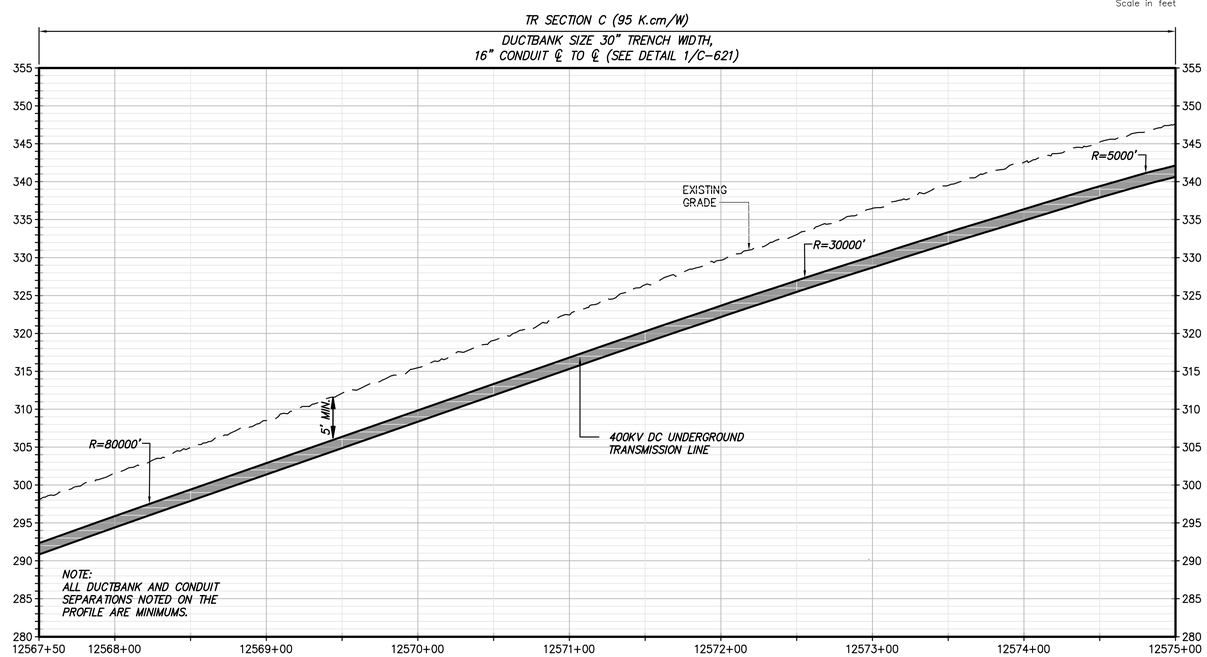
NOT FOR CONSTRUCTION
FOR EM&CP PERMIT ONLY

STA. 12560+00 TO STA. 12575+00 PLAN VIEW

SCALE: 1" = 50'

0 50 100
Scale in feet





STA. 12560+00 TO STA. 12575+00 PROFILE VIEW

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

B

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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 2 - ROUTE 22: DRESDEN - WHITEHALL
STA. 12560+00 TO STA. 12575+00 PLAN AND PROFILE

KIEWIT PROJECT NO.	21162
CHA PROJECT NO.	066076
DRAWING NO.	C-105

DRAWN BY: JTM | DESIGNED BY: JTM | APPROVED BY: JPR | SCALE: AS NOTED | REV. NO. X | DATE 09/21/2022 | SH.NO. XXX OF XXX

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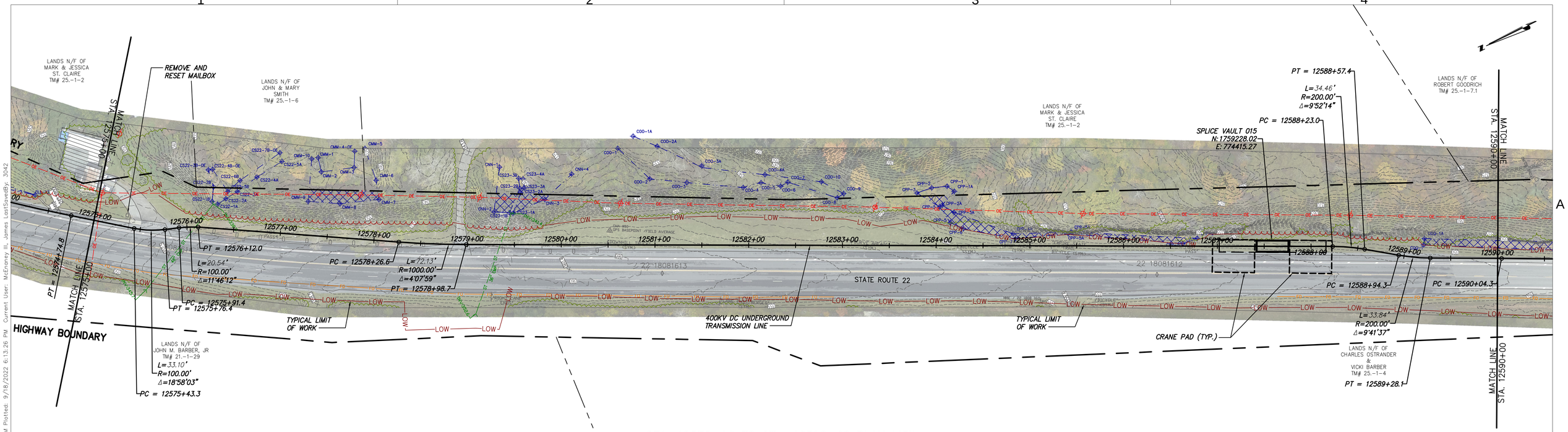

STA. 12575+00 TO STA. 12590+00 PLAN VIEW

SCALE: 1" = 50'

NOT FOR CONSTRUCTION
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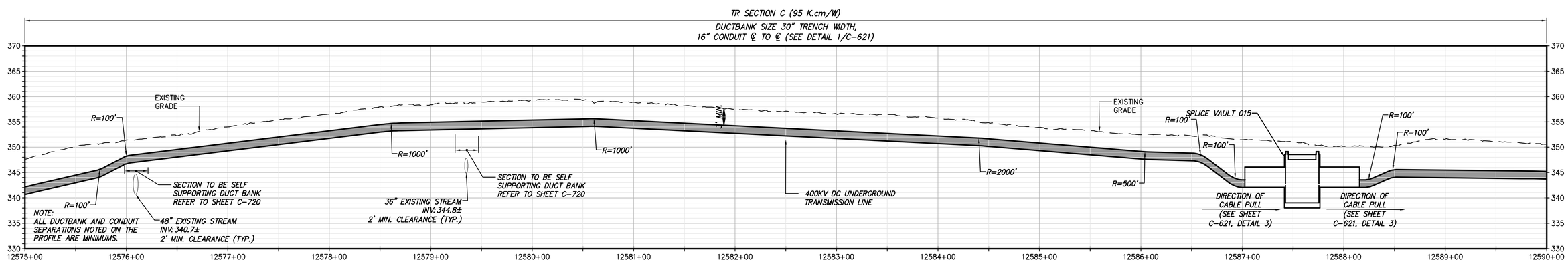

STA. 12575+00 TO STA. 12590+00 PROFILE VIEW

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

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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 2 - ROUTE 22: DRESDEN - WHITEHALL
STA. 12575+00 TO STA. 12590+00 PLAN AND PROFILE

DRAWN BY: JTM | DESIGNED BY: JTM | APPROVED BY: JPR | SCALE AS NOTED | REV. NO. X | DATE 09/21/2022 | SH.NO. XXX OF XXX

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. C-106

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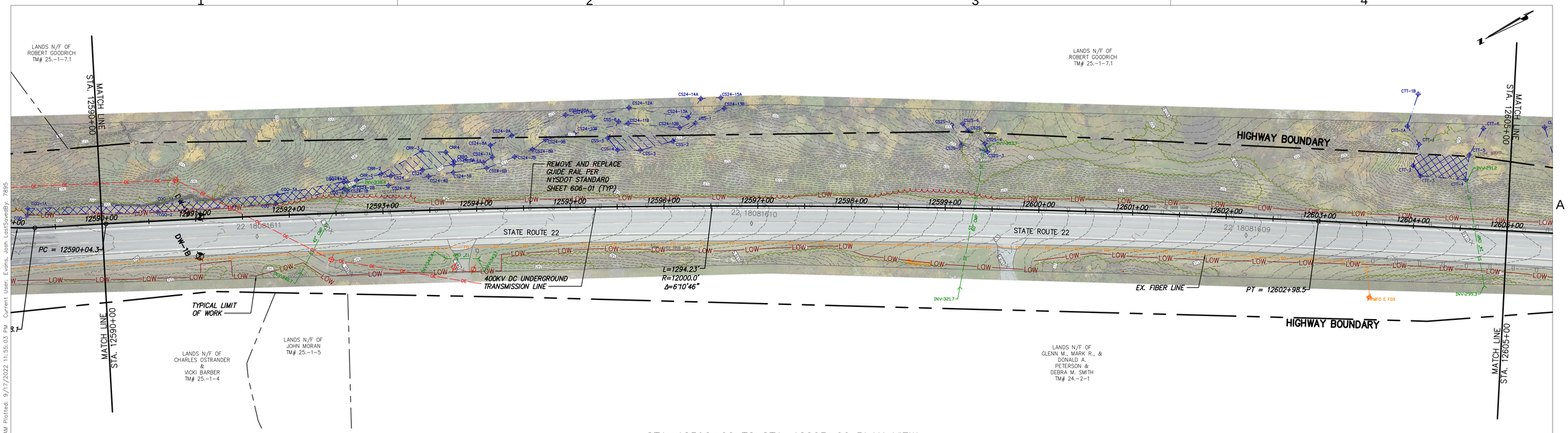

STA. 12590+00 TO STA. 12605+00 PLAN VIEW

SCALE: 1" = 50'

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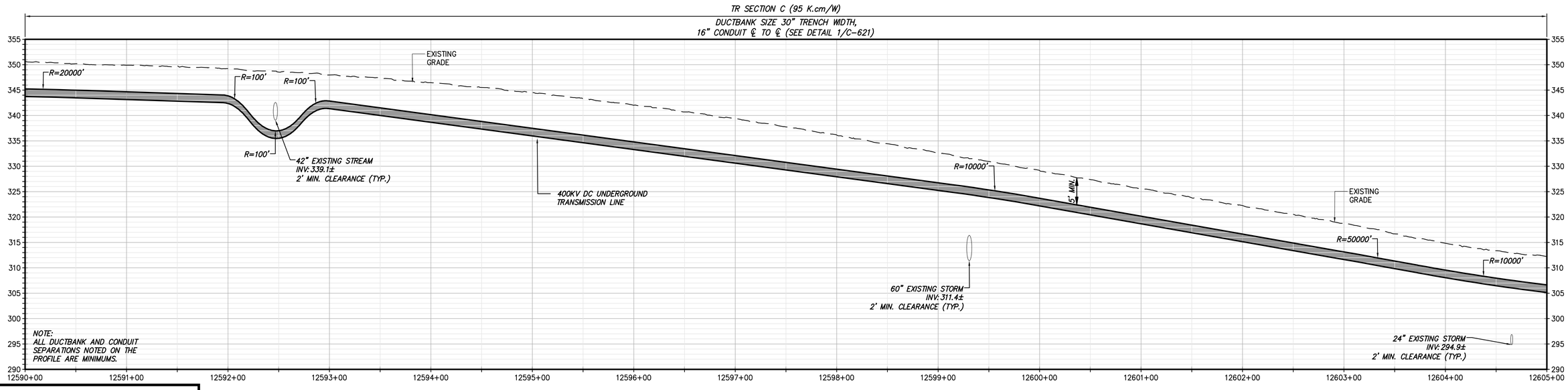
Scale in feet



STA. 12590+00 TO STA. 12605+00 PROFILE VIEW

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

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CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 2 - ROUTE 22: DRESDEN - WHITEHALL
STA. 12590+00 TO STA.12605+00 PLAN AND PROFILE

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. C-107

DRAWN BY: JTM | DESIGNED BY: JTM | APPROVED BY: JPR | SCALE AS NOTED | REV. NO. X | DATE 09/21/2022 | SH.NO. XXX OF XXX

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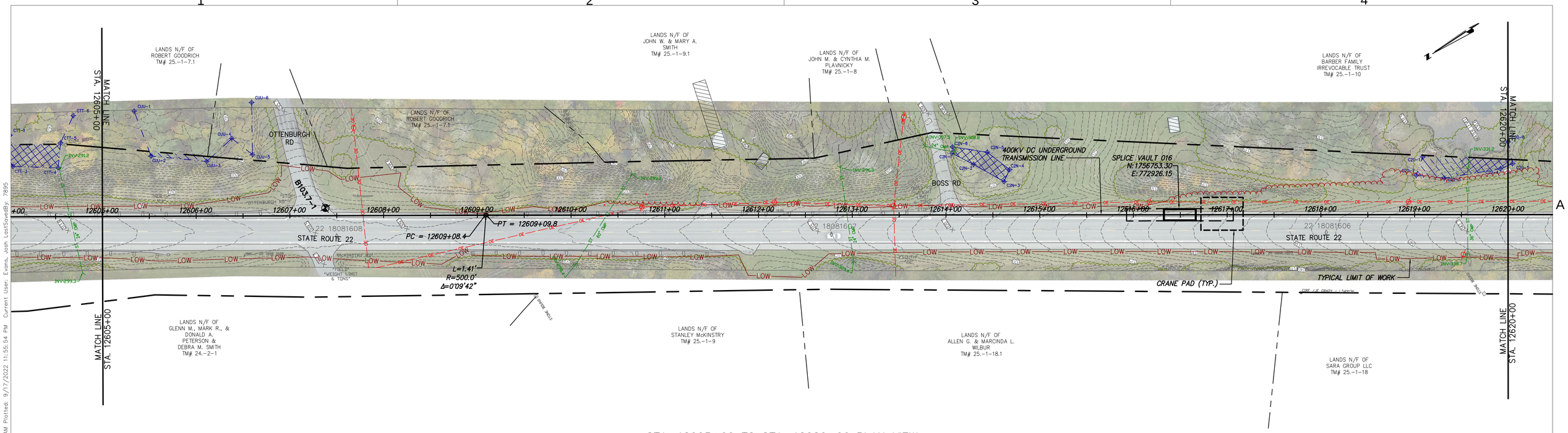

STA. 12605+00 TO STA. 12620+00 PLAN VIEW

SCALE: 1" = 50'

0 50 100
Scale in feet

NOT FOR CONSTRUCTION
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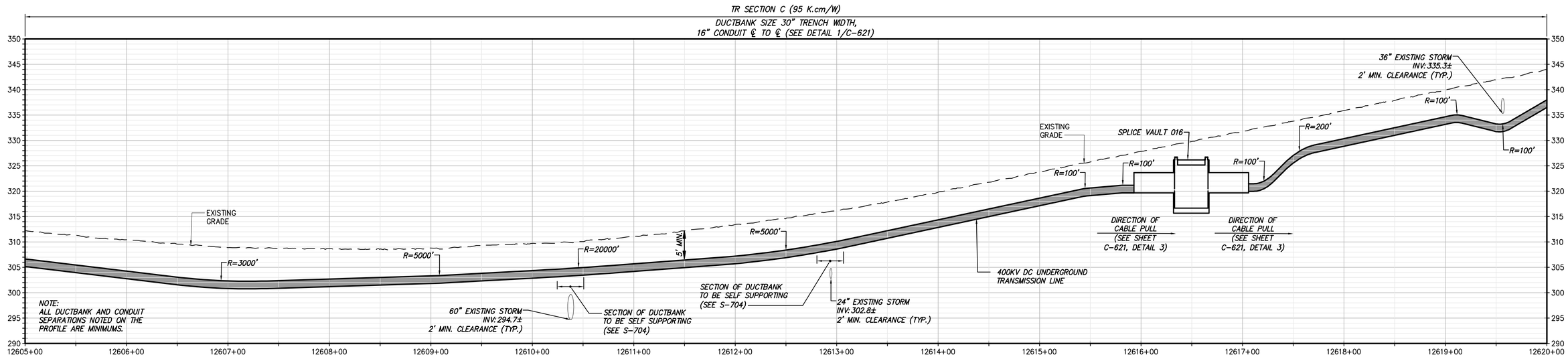

STA. 12605+00 TO STA. 12620+00 PROFILE VIEW

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

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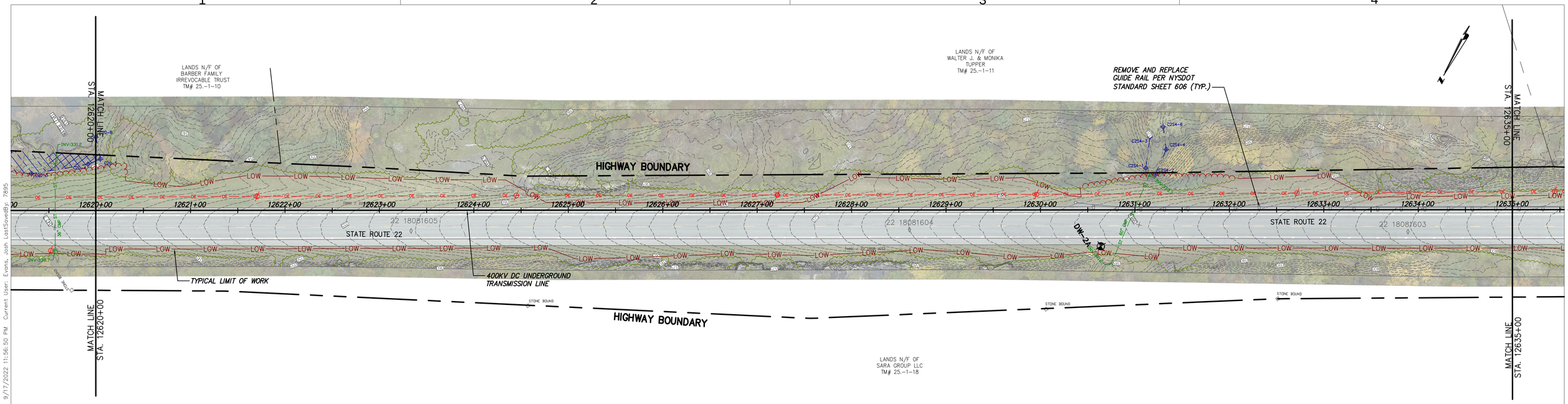
CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 2 - ROUTE 22: DRESDEN - WHITEHALL
STA. 12605+00 TO STA. 12620+00 PLAN AND PROFILE

KIEWIT PROJECT NO.	21162
CHA PROJECT NO.	066076
DRAWING NO.	C-108

DRAWN BY: JTM | DESIGNED BY: JTM | APPROVED BY: JPR | SCALE AS NOTED | REV. NO. X | DATE 09/21/2022 | SH.NO. XXX OF XXX

File: V:\PROJECTS\ANY\K6\066076.000\09_DESIGN\DRAWINGS\01_SHEETS\DESIGN PACKAGE 1\DESIGN PACKAGE 1B\066076_P1B - C-106 - C-110.DWG Saved: 9/16/2022 10:54:13 AM Plotted: 9/17/2022 11:55:54 PM Current User: Evans, Josh LastSavedBy: 7895



STA. 12620+00 TO STA. 12635+00 PLAN VIEW

SCALE: 1" = 50'

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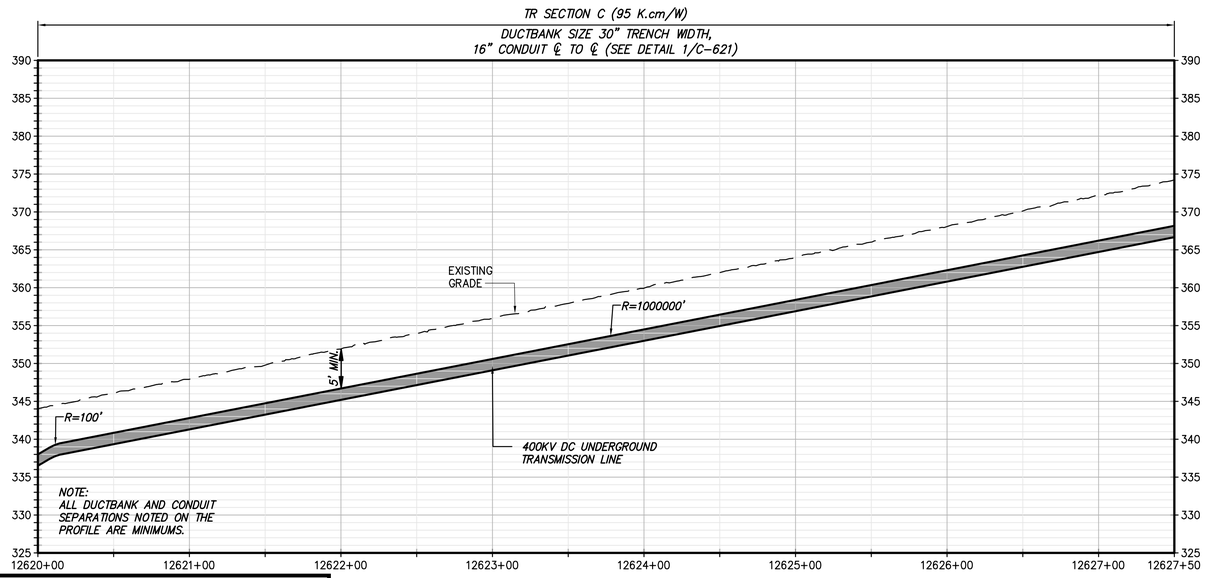
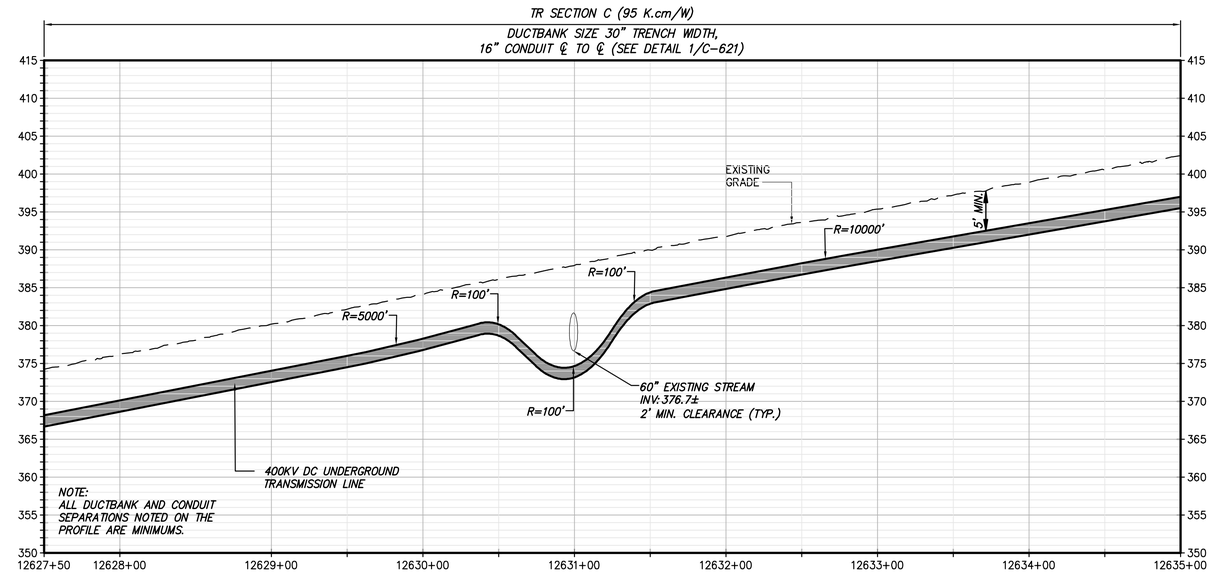
Scale in feet





STA. 12620+00 TO STA. 12635+00 PROFILE VIEW

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

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STATE OF NEW YORK · JOSEPH P. ROMANO · 081993 · LICENSED PROFESSIONAL ENGINEER
09/18/2022

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.

No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP
0	09/21/2022	FINAL EM&CP SUBMISSION	JM	JR

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 2 - ROUTE 22: DRESDEN - WHITEHALL
STA. 12620+00 TO STA. 12635+00 PLAN AND PROFILE

DRAWN BY: JTM | DESIGNED BY: JTM | APPROVED BY: JPR | SCALE AS NOTED | REV. NO. X | DATE 09/21/2022 | SH.NO. XXX OF XXX

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 066076
DRAWING NO. C-109

File: V:\PROJECTS\ANY\K6\066076.000\09_DESIGN\DRAWINGS\01_SHEETS\DESIGN PACKAGE 1\DESIGN PACKAGE 1B\066076_P1B - C-106 - C-110.DWG Saved: 9/16/2022 10:54:13 AM Plotted: 9/17/2022 11:56:50 PM Current User: Evans, Josh LastSavedBy: 7895