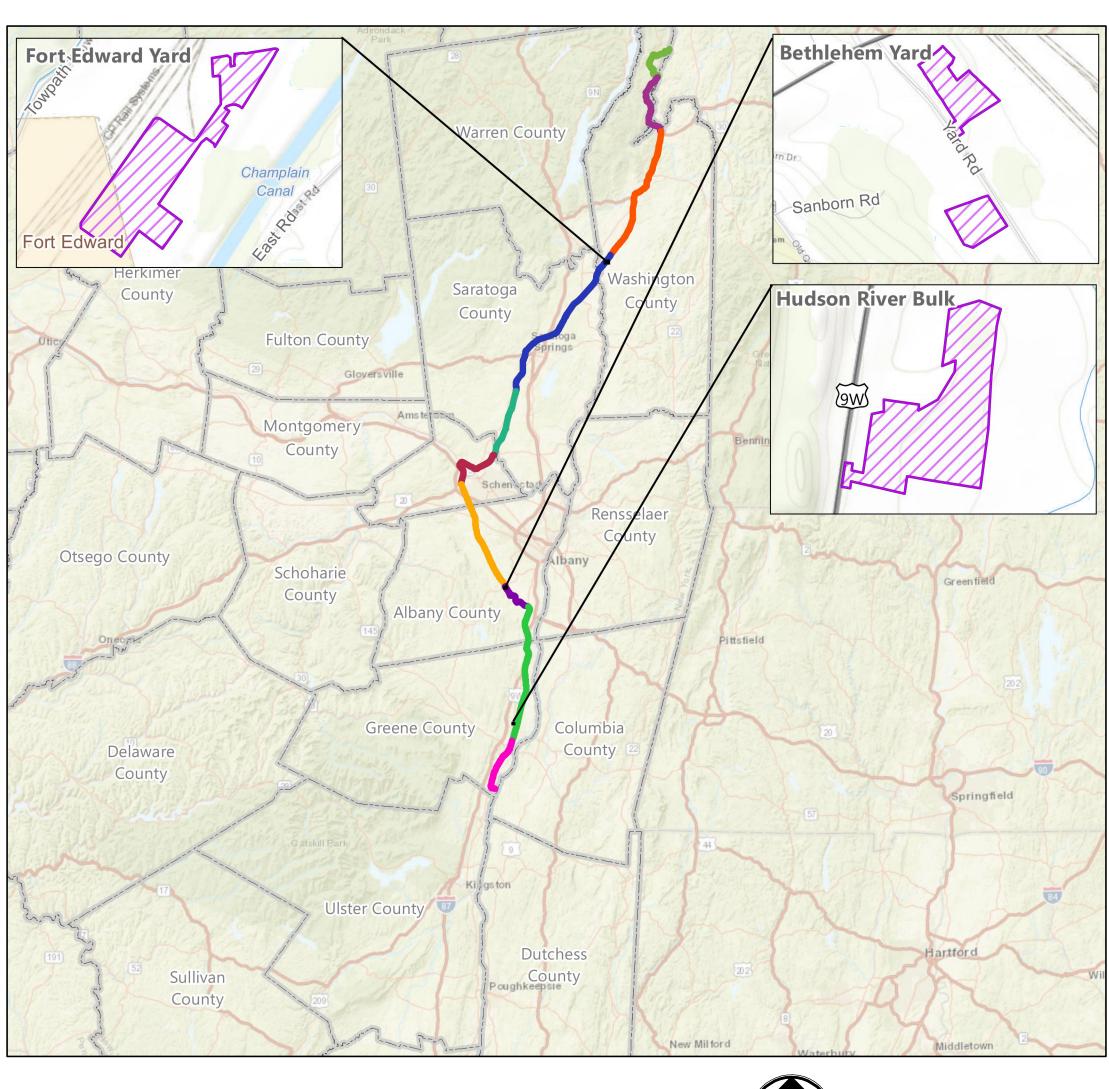
# CHAMPLAIN HUDSON POWER EXPRESS

PROJECT WIDE LAYDOWN YARD PACKAGE WASHINGTON, ALBANY AND GREENE COUNTIES, NEW YORK FINAL EM&CP SUBMISSION (JANUARY 20, 2023)



SITE LOCATION MAP

NOT TO SCALE



NOT FOR CONSTRUCTION FOR EM&CP PERMIT ONLY







No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	D
0	11/11/2022	FINAL EM&CP SUBMISSION	JM	JR	
1	01/20/2023	REVISED PER DPS COMMENTS	JM	JR	
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CHAMPLAIN HUDSON POWER EXPRESS PROJECT WIDE LAYDOWN YARD PACKAGE **COVER SHEET** 

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

AS NOTED DATE DRAWN BY: JJE DESIGNED BY: JTM APPROVED BY: JPR REV. NO.

- 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. 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. CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF WORK IN CONFORMANCE WITH REFERENCE SECTION 4.5 DEWATERING METHODS IN THE EM&CP. CONTRACTOR SHALL MAINTAIN EXISTING SITE DRAINAGE PATTERNS THROUGHOUT CONSTRUCTION UNLESS OTHERWISE SHOWN ON THE PLANS.

- 12. MAINTAIN FLOW FOR ALL EXISTING UTILITIES.
- 13. ALL FRAMES AND COVER TO BE SET AT ELEVATIONS CONSISTENT WITH THE PROJECT DETAILS.
- 14. ALL EXCAVATIONS SHALL BE PROTECTED AT THE END OF EACH WORK DAY PER OSHA AND NYSDOT REQUIREMENTS.
- 15. 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.
- 16. 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.
- 17. SERVICE CONNECTIONS TO BE FIELD LOCATED PRIOR TO CONSTRUCTION.
- 18. REFER TO EM&CP DOCUMENT FOR ADDITIONAL ITEMS FOR ALL GENERAL NOTES.
- 19. FUELING OPERATIONS SHALL NOT TAKE PLACE WITHIN 100 FEET OF ANY KNOWN WETLAND OR STREAM OR WITHIN 200 FEET OF ANY POTABLE WATER SOURCE. WHERE THIS IS UNAVOIDABLE, REFUELING SHALL TAKE PLACE IN ACCORDANCE WITH THE EM&CP SECTION 5.5.

# **EROSION CONTROL NOTES**

- 1. LAND DISTURBING ACTIVITIES SHALL NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN RECEIVED BY GOVERNING AUTHORITIES.
- 2. THE GENERAL CONTRACTOR SHALL STRICTLY ADHERE TO THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND FOLLOW THE EM&CP DOCUMENTS DURING CONSTRUCTION OPERATIONS.
- 3. 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)
- 4. SITE DISTURBANCE SHALL NOT EXCEED FIVE (5) ACRES OF SOIL AT ANY ONE TIME WITHOUT PRIOR WRITTEN AUTHORIZATION FROM NYSDEC DIVISION OF WATER.
- 5. ALL EXPOSED AREAS SHALL BE SEEDED AND MULCHED AS SPECIFIED WITHIN 14 DAYS OF FINAL GRADING (DURING WINTER STABILIZATION, THIS TIMEFRAME IS 3 DAYS AND MUST BEGIN WITHIN 24 HOUR OF DISTURBANCE). FOR DISTURBED WETLAND, STEEP SLOPES AND SENSITIVE AREAS, AREA TO BE RESTORED IN ACCORDANCE WITH THE EM&CP SECTIONS 9 AND 13.
- 6. INACTIVE PORTIONS OF THE SITE ARE TO BE SEEDED AND MULCHED AS SPECIFIED WITHIN 14 DAYS (DURING WINTER STABILIZATION, THIS TIMEFRAME IS 3 DAYS AND MUST BEGIN WITHIN 24 HOUR OF DISTURBANCE). FOR DISTURBED WETLAND. STEEP SLOPES AND SENSITIVE AREAS, AREA TO BE RESTORED IN ACCORDANCE WITH THE EM&CP SECTIONS 9 AND 13.
- 7. 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.
- 8. 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.
- 9. GENERAL CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
- 10. 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.
- 11. GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO TAKE REASONABLE MEANS NECESSARY TO ESTABLISH PERMANENT SOIL STABILIZATION.
- 12. AT THE END OF EACH WORK DAY DISTURBED SOILS ARE TO BE REGRADED TO DRAIN INTO TEMPORARY DIVERSION SWALES OR SEDIMENT CONTROL PRACTICES.
- 13. 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

## GENERAL SEQUENCING NOTES

- 1. INSTALL STABILIZED CONSTRUCTION ENTRANCE AND TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES (INSTALLED IN PROGRESSIVE PHASES).
- 2. ESTABLISH WORK AREA AND CONTRACTOR STAGING AREAS.
- 3. PERFORM INITIAL CLEARING TO REMOVE VEGETATION (WHERE REQUIRED).
- 4. PERFORM SITE GRADING AND INSTALL GRAVEL ACCESS ROADS AND GROUND STABILIZATION IF REQUIRED DUE TO SITE CONDITIONS. GROUND STABILIZATION SHALL GENERALLY CONSIST OF UNDERCUTTING EXISTING UNSUITABLE TOPSOIL (TO BE STOCKPILED ON-SITE). PROOF ROLLING THE SUBGRADE, INSTALLING LAYERS OF GEOTEXTILE FABRIC AND GEOGRID, AND INSTALLING AN AGGREGATE BASE. ADDITIONAL ESCS WILL BE INSTALLED AT THE DIRECTION OF DESIGN ENGINEERS AND ENVIRONMENTAL INSPECTORS.
- 5. INSTALL TEMPORARY ELECTRIC UTILITY TIE-INS FROM NEARBY LOCATIONS. DRILL WATER WELL AT COXSACKIE-HUDSON RIVER BULK YARD, AND TIE INTO PUBLIC WATER SYSTEM AT FORT EDWARD AND BETHLEHEM YARDS. WATER WELL AT COXSACKIE-HUDSON RIVER YARD WILL BE DRILLED BY A NYSDEC LICENSED WELL DRILLER AND WELL INSTALLATION WILL FOLLOW NYSDEC REGULATIONS FOR DRILLING NOTICE. REGISTRATION AND COMPLETION REPORTS WILL BE PROVIDED THROUGH THE WELL DRILLING CONTRACTOR. SANITARY HOLDING TANKS WILL BE UTILIZED AT EACH LAYDOWN YARD, SEE SECTION 5.3.2 FOR DETAILS PERTAINING TO PRECAUTIONARY MEASURES AND SERVICING.
- 6. INSTALL FENCING AND GATES, SITE LIGHTING, MODULAR TRAILER MOUNTED OFFICES. DUMPSTERS, AND CONNEX STORAGE CONTAINERS.
- 7. INSTALL CONCRETE PADS FOR TEMPORARY STRUCTURES SUCH AS MAINTENANCE SHOP, CABLE HEATING BUILDING, FUELING PAD, FUEL TRUCK PARKING PAD, AND FOUIPMENT WASH PAD.
- 8. INSTALL TEMPORARY STRUCTURES.
- 9. AT THE COMPLETION OF CONSTRUCTION, CONTRACTOR WILL RESTORE THE SITE TO EXISTING CONDITIONS IN ACCORDANCE WITH CHAPTER 13 OF THE EM&CP.

SHEET INDEX						
Sheet Number	Sheet Title					
G-000	COVER SHEET					
G-001	GENERAL NOTES AND SHEET INDEX					
G-003	LEGENDS AND ABBREVIATIONS					
C-201A	FORT EDWARD LAYDOWN AREA A (SEGMENT 4, PACKAGE 3)					
C-201B	FORT EDWARD LAYDOWN AREA B (SEGMENT 4, PACKAGE 3)					
C-202	BETHLEHEM LAYDOWN YARD (SEGMENT 9 - PACKAGE 5B)					
C-203	COXSACKIE - HUDSON RIVER LAYDOWN YARD (SEGMENT 10, PACKAGE 6)					
C-601	EROSION AND SEDIMENT CONTROL DETAILS					
C-602	EROSION AND SEDIMENT CONTROL DETAILS					
C-632	TYPICAL CULVERT INSTALLATION AND REPLACEMENT DETAILS					









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 TEM BEARING THE STAMP OF A LICENSED PROFESSIONAL I 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.

					PROJECT WIDE LAYDOWN YARD PAGENERAL NOTES AND SHEET IND
1	01/20/2023	REVISED PER DPS COMMENTS	JM	JR	
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CHAMPLAIN HUDSON POWER EXPRESS PROJECT WIDE LAYDOWN YARD PACKAGE GENERAL NOTES AND SHEET INDEX

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

G-001

AS NOTED DATE 11/11/2022 НН

EXIST. FIBER OPTIC LINE HANDHOLE

EXIST. FIBER OPTIC LINE PEDESTAL

EXIST. FIBER OPTIC LINE DOGHOUSE

EXIST. FIBER OPTIC LINE MANHOLE

EXIST. FIBER OPTIC LINE BORE PIT

EXIST. FIBER OPTIC MARKER POST

EXIST. SANITARY SEWER MANHOLE

EXIST. SANITARY SEWER VENT

EXIST. STORM SEWER MANHOLE

EXIST. STORM SEWER CATCH BASIN

EXIST. FIBER OPTIC LINE VAULT

EXIST. FIBER OPTIC LOCK BOX

EXIST. GROUND ROD

EXIST. FIBER STORAGE

EXIST. FIRE HYDRANT

EXIST. WATER VALVE

EXIST. WATER MANHOLE

EXIST. WATER MARKER

EXIST. CULVERT INVERT

EXIST. GAS MANHOLE

EXIST. GAS VALVE

EXIST. GAS MARKER

EXIST. LIGHT POLE

EXIST. UTILITY POLE

EXIST. ELEC. POLE

EXIST. TRAFFIC LIGHT

EXIST. ELEC. METER

EXIST. ELEC. VAULT

EXIST. ELEC. HANDHOLE

EXIST. ELEC. MANHOLE

EXIST. ELEC. TRANSFORMER

EXIST. ELEC. PEDESTAL/BOX

EXIST. ELEC. MARKER POST

EXIST. TELE. RISER/BOX

EXIST. TELE. MANHOLE

EXIST. TELE. HANDHOLE

EXIST. TELE. PEDESTAL

EXIST. TELE. DOGHOUSE

EXIST. TELE. MARKER POST

EXIST. TELE. JUNCTION BOX

EXIST. TRAFFIC SIGNAL BOX

EXISTING MANHOLE UNKNOWN

EXISTING CAPPED IRON ROD

EXISTING CONCRETE MONUMENT

EXISTING REFLECTOR MARKER

EXISTING UTILITY BOX UNKNOWN

EXIST. CELL TOWER

EXIST. CABLE BOX

EXISTING ANTENNA

EXISTING IRON PIPE

EXISTING POST

EXISTING SYMBOL

EXIST. TELE. VAULT

EXIST. ELEC. GUY ANCHOR/WIRE

EXIST. GAS PIPELINE VENT

PKS		=_	1
<b>EPKS</b>		MII	r



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ARE ACTING UNDER THE DIRECTION OF A LICENSED
PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHIT
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ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL
ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCA
ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUM
AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED E
THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND
SPECIFIC DESCRIPTION OF THE ALTERATION.

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CHAMPLAIN HUDSON POWER EXPRESS
PROJECT WIDE LAYDOWN YARD PACKAGE
LEGENDS AND ABBREVIATIONS

KIEWIT PROJECT NO.
21162
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066076
DRAWING NO.

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SIGN	EXISTING SIGN
•	EXIST. STRUCTURE POST
۵	EXIST. STRUCTURE MAILBOX
<b>◆</b> <sup>xx−</sup> ##	EXIST. WETLAND FLAG
— — G — — G —	EXIST. GAS LINE
— — UT — — UT —	EXIST. UNDERGROUND TELE.
— — F0 — — F0 —	EXIST. FIBER OPTIC
— — от — — от —	EXIST. OVERHEAD TELE.
— — UE — — UE —	EXIST. UNDERGROUND ELEC.
— — OE — OE —	EXIST. OVERHEAD ELEC.
— — sī — — sī —	EXIST. CULVERT
— — ss — — ss —	EXIST. SANITARY SEWER
— — st — — st —	EXIST. STORM SEWER
— — w — — w —	EXIST. POTABLE WATER LINE
	EXIST. RAILROAD TRACK
<u> </u>	EXIST. WETLANDS
⊗ CERTIFIED ROUTE MP XX	CERTIFIED ROUTE PROVIDED BY CHPE KMZ
	EXIST. CONTOUR, INDEX
	EXIST. CONTOUR, DEPRESSION INDEX
~~~	EXIST. CONTOUR, INTERMEDIATE
	EXIST. CONTOUR, DEPRESSION INTERMEDIATE
×139.7	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
(CL) (CL)2	WATER LEVEL
· · · · · ·	EXIST. NATURAL BOULDER
	EXIST. NATURAL SHRUB LINE
	EXIST. NATURAL TREE LINE
$\Diamond$ $\Diamond$ $\circ$	EXIST. NATURAL SINGLE TREE/BUSH
	EXIST. STRUCTURAL BUILDING
	EXIST. PAVED DRIVE
	EXIST. PAVED ROAD
	EXIST. PAVED SHOULDER
	EXIST. PAVED SIDEWALK
	EXIST. GUARDRAIL
<del></del>	EXIST. RAILROAD
	EXIST. TRAIL
X	EXIST. FENCE EXIST. WALL
	EXIST. RETAINING WALL
Y	EXIST. MILEPOST NUMBER
	EXIST. MAPPING BOUNDARY
(202) منم	EXIST. GROUND CONTROL

PROP. RIGHT-OF-WAY

PROP. ABUTTER

LOW
.~~~.
<b>◆</b>
<i>XXXXX+XX</i>
NOTES:
1. LIMIT OF V
STOCKPILE LANDSCAP SHALL OC DISTURBAN LIMIT OF C
THE LOW. OF DISTUR

	PEM - PALUSTRINE EMERGENT					
77772	PSS - PALUSTRINE SCRUB-SHRUB					
7.7.7.7.7.	PFO - PALUSTRINE FORESTED					
	PUB - PALUSTRINE UNCONSOLIDATED BOTTOM					
· · · · · · · · · · · · · · · · · · ·	L1 - LACUSTRINE LIMNETIC					
	L2 - LACUSTRINE LITTORAL					
	NYSDEC FWW 100-FOOT ADJACENT BUFFER AREA					
$\nabla$ $\nabla$ $\nabla$ $\nabla$ $\nabla$	ESA 5 HABITAT (AVOID)					
+ + +	ESA 5 HABITAT					
	200' ESA 5 BUFFER					
	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					
<b>◆</b>	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, STOCKPILES MATERIAL, EQUIPMENT STORAGE, ACCESS, PARKING, GRADING, LANDSCAPING, RESTORATION, AND ANY OTHER CONSTRUCTION RELATED ACTIVITIES SHALL OCCUR. ADDITIONALLY, THE LOW IS THE BOUNDARY FOR ALL POTENTIAL DISTURBANCE DURING CONSTRUCTION. UNLESS OTHERWISE SPECIFIED, WHEN THE LIMIT OF CLEARING AND GRUBBING IS SHOWN ON THE PLANS, IT SHALL ALSO BE THE LOW. THE LOW INCLUDES THE AREA THAT WOULD BE CONSIDERED THE LIMIT OF DISTURBANCE (LOD).						

SANITARY SEWER PIPE STREET STA STATION STORM DRAIN PIPE TELECOMMUNICATIONS CABLE TEMP TEMPORARY THERMAL RESISTIVITY

APPROVED

CENTERLINE

CONCRETE

DEGREES

**EASTING** 

**ELEVATION** 

GAS PIPE

HORIZONTAL

INVERT ELEVATION

LIMITS OF WORK

MAXIMUM

MINIMUM

NORTHING

NUMBER

NEW YORK

PACKAGE #

RADIUS

ROAD

REVISION

RIGHT-OF-WAY

POLYVINYL CHLORIDE

POINT OF VERTICAL INTERSECTION

REINFORCED CONCRETE PIPE

FEET

DRIVE

DESIGNED BY

DEVIATION ZONE

ELECTRIC CABLE

FIBER OPTIC CABLE

HORIZONTAL DIRECTIONAL DRILLING

HIGH-VOLTAGE DIRECT CURRENT TRANSMISSION LINE

CORRUGATED METAL PIPE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CL

DEC

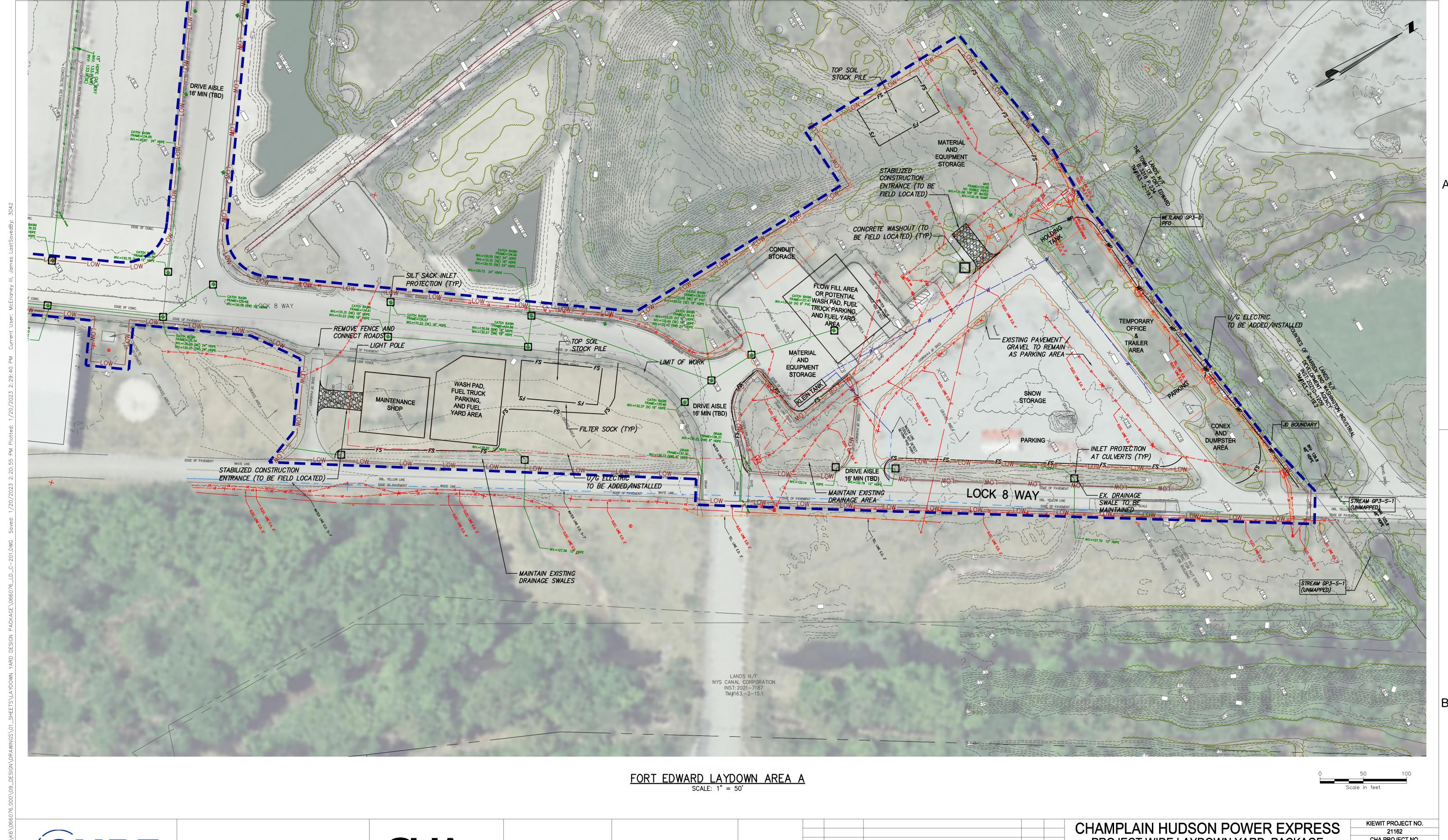
ELECTRIC

ELEV

**FIBER** 

TYPICAL VERTICAL WATERLINE

Champlain Hudson **Power Express** 









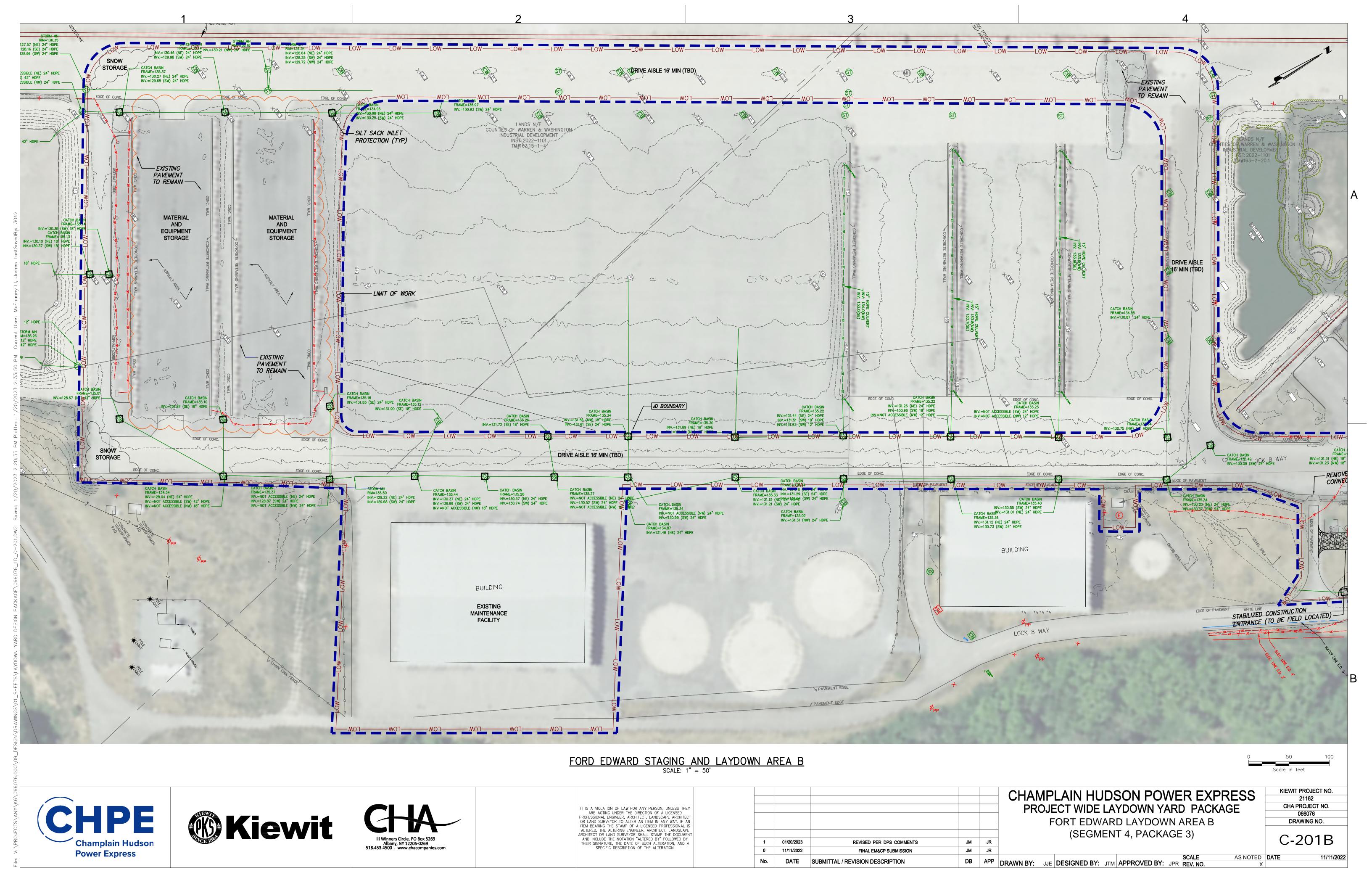
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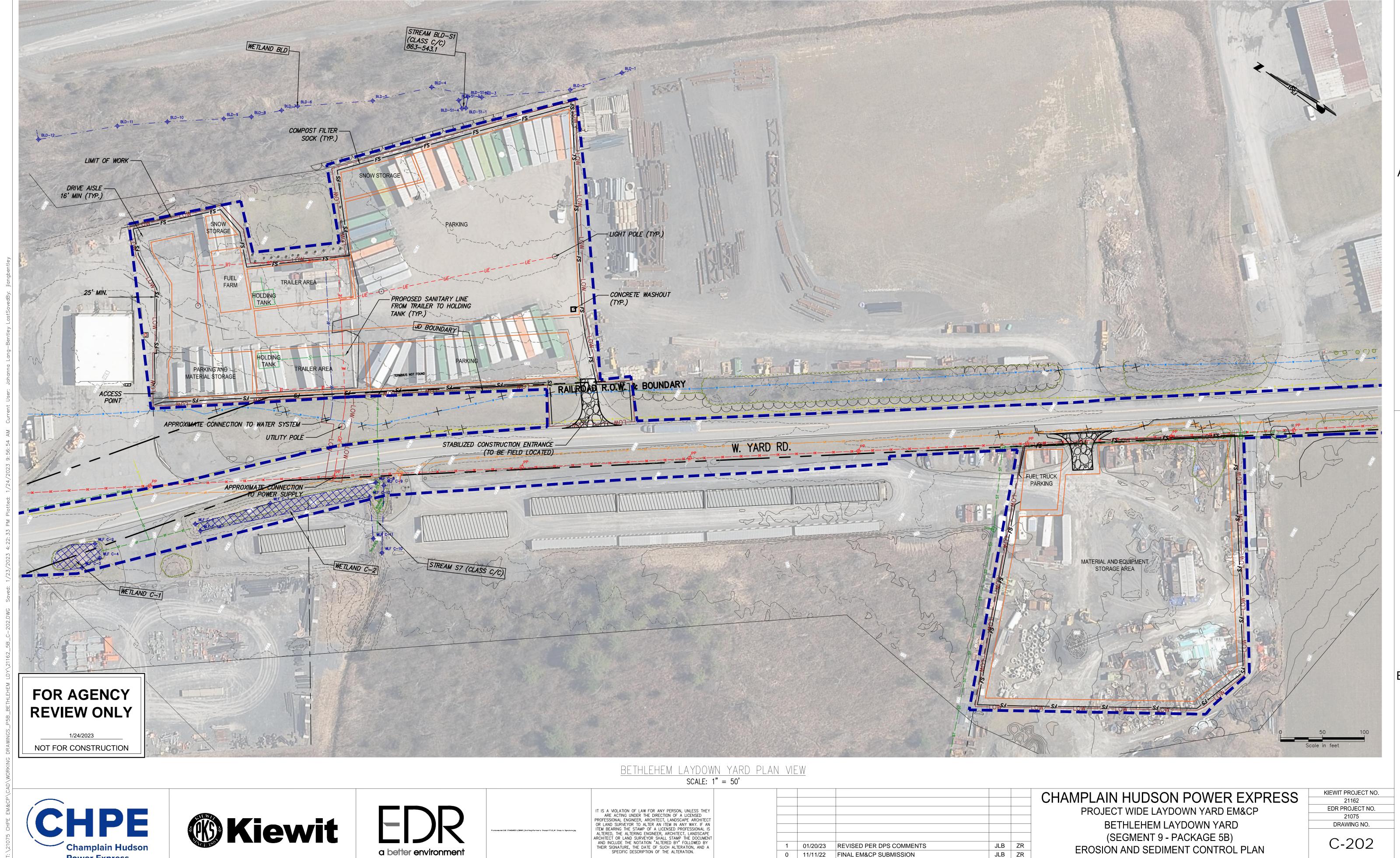
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					(SEGMENT 4, PACKAGE 3)
					FORT EDWARD LAYDOWN AREA A
					PROJECT WIDE LAYDOWN YARD PAC
					CHAMPLAIN HUDSON POWER EX

PROJECT WIDE LAYDOWN YARD PACKAGE FORT EDWARD LAYDOWN AREA A (SEGMENT 4, PACKAGE 3)

CHA PROJECT NO. 066076 DRAWING NO.

C-201A AS NOTED DATE





a better environment

BETHLEHEM LAYDOWN YARD

(SEGMENT 9 - PACKAGE 5B)

EROSION AND SEDIMENT CONTROL PLAN

DB APP DRAWN BY: JLB DESIGNED BY: JLB APPROVED BY: ZR SCALE REV. NO.

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REVISED PER DPS COMMENTS

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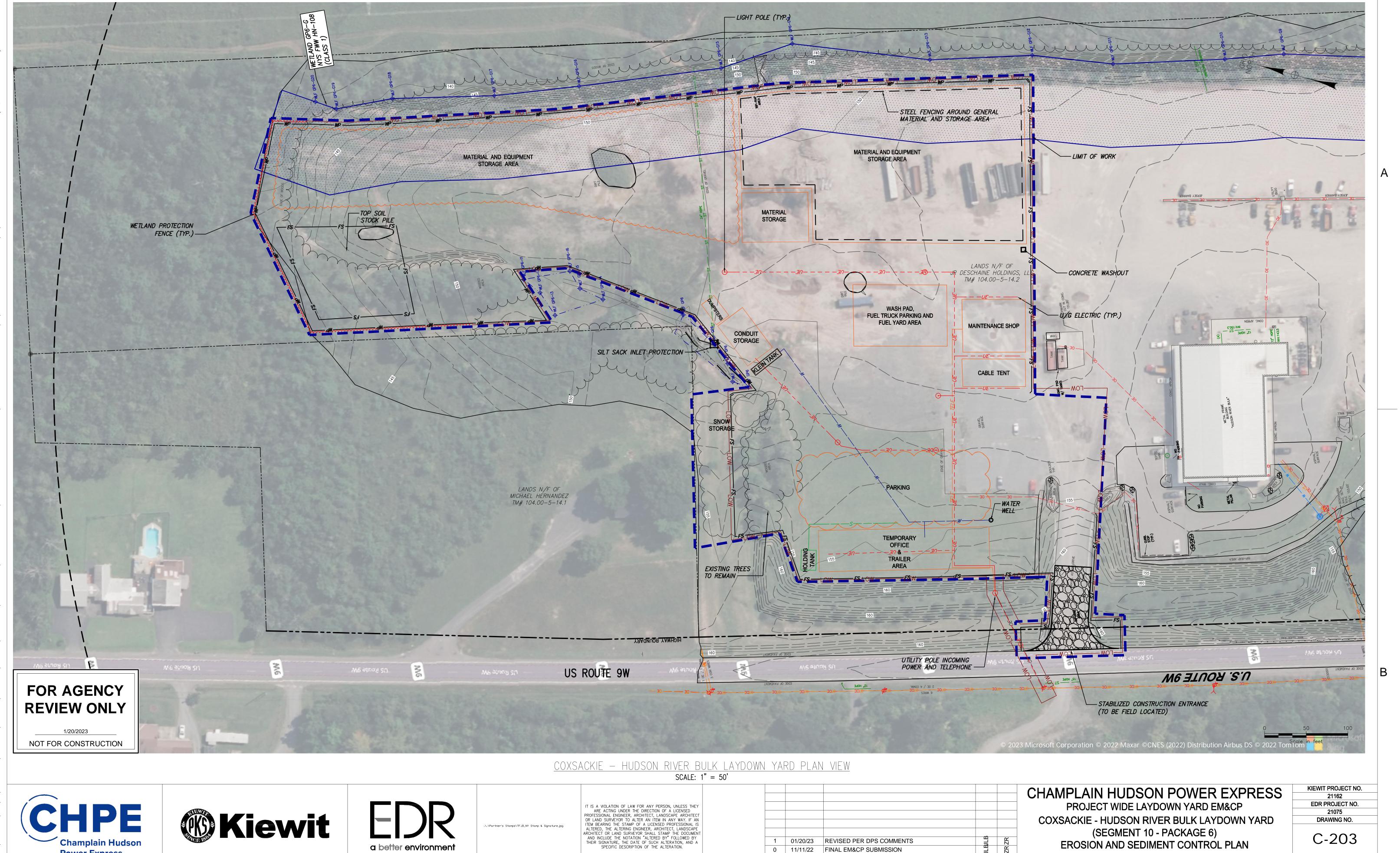
FINAL EM&CP SUBMISSION

11/11/22

DRAWING NO.

C-202

**Power Express** 



a better environment

REVISED PER DPS COMMENTS

SUBMITTAL / REVISION DESCRIPTION

FINAL EM&CP SUBMISSION

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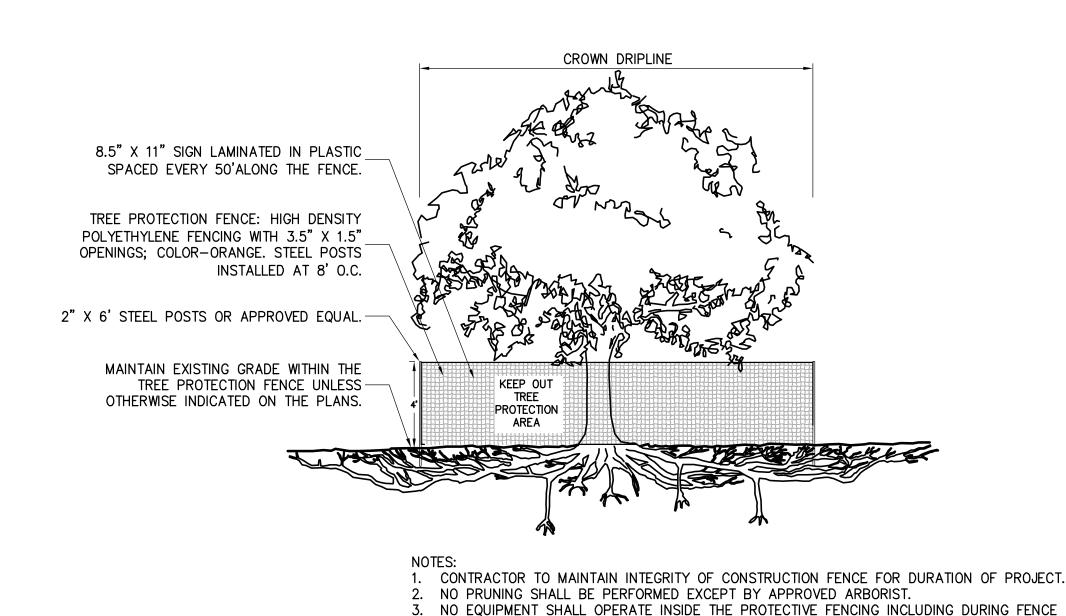
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EROSION AND SEDIMENT CONTROL PLAN

DB APP DRAWN BY: JLB DESIGNED BY: XX APPROVED BY: ZR SCALE REV. NO.

**Power Express** 



INSTALLATION AND REMOVAL.

TREE PROTECTION

NOT TO SCALE

POST 36" LONG 11/2"x11/2" HARDWOOD SPACING 10' O.C. (SEE NOTE 2) 36" WIRE FENCING-14 GA. 6" SQ. STAPLED TO POST MIRAFI 100X (OR EQUIVALENT) FABRIC (FILTER CLOTH) 30#/IN. WRAP IN TRENCH AS SHOWN COMPACTED FLOW BACKFILL -

4. SEE EROSION CONTROL PLANS FOR LOCATIONS OF TREE PROTECTION AREAS.

- 1. TIE FABRIC TO WIRE FENCE IN ACCORDANCE WITH
- 2. IF EXTRA STRENGTH FABRIC (GREATER THAN 50#/INCH) IS USED, WIRE CAN BE DELETED IF POST SPACING IS REDUCED TO 6' O.C.
- 3. AT THE ENDS OF THE FENCING THE FIRST 20' SHALL BE TURNED UP THE SLOPE 2'.
- 4. POSTS SHOULD BE INCLINED TOWARD THE DIRECTION FLOW CAME
- 5. OVERLAP FABRIC A MINIMUM OF 6" AND FOLDED AT JOINTS. ATTACH FILTER FABRIC TO STAKES ALLOWING EXTENSION INTO TRENCH AS SHOWN; SECURE TO STAKES AS NOTED.
- 6. THE MAXIMUM AREA OF RUNOFF PER 100LF. OF FENCE SHALL NOT EXCEED 0.25 ACRES.
- MAINTENANCE SHALL BE PERFORMED AS NECESSARY. THE FENCING SHALL BE CHECKED AFTER EVERY STORM TO ENSURE THEIR PROPER FUNCTIONING.
- WHEN FENCE IS NO LONGER NEEDED, THE ACCUMULATED SILT, THE POSTS AND FABRIC SHALL BE REMOVED AND TRENCH BACK FILLED WITH TOPSOIL AND SEEDED.
- 9. FENCING SHOULD BE PLACED AS SHOWN ON THE DRAWING OR IF NOT SHOWN, 10' BEYOND THE TOE OF THE SLOPE AND AT A SPACING IN ACCORDANCE WITH THE TABLE.
- 10. EXCAVATE TRENCH AS PER DETAIL AND SET POSTS AT 10' O.C.
- 11. BACKFILL WITH COMPACTED, EXCAVATED SOIL FROM TRENCH.

-NORTH AMERICAN GREEN S75 OR APPROVED EQUAL ON SUBGRADE, TEMP. SEED MIXTURE FILTER SOCK, SIZED TO SUIT CONDITIONS. -HARDWOOD POST 10' O.C. WATER FLOW INLET SIDE FILTER COMPOST MATERIAL

1. ALL MATERIAL TO MEET MANUFACTURER SPECIFICATIONS. 2. ALL FILTER SOCKS SHALL BE 12" DIAMETER OR LARGER. 3. THE CONTRACTOR SHALL MAINTAIN THE COMPOST FILTER BERM

IN A FUNCTIONAL CONDITION AT ALL TIMES AND IT SHALL BE

AS PER SPECIFICATIONS.

- ROUTINELY INSPECTED. 4. WHERE THE BERM REQUIRES REPAIR, IT WILL BE ROUTINELY REPAIRED.
- 5. THE CONTRACTOR SHALL REMOVE SEDIMENTS COLLECTED AT THE BASE OF THE BERM WHEN THEY REACH 1/3 OF THE EXPOSED HEIGHT OF THE BERM, OR AS DIRECTED BY THE
- 6. THE COMPOST FILTER BERM WILL BE REMOVED ON SITE WHEN NO LONGER REQUIRED, AS DETERMINED BY THE OWNERS.

MAINTENANCE NOTES:

TOP OF CHANNEL/BANK

ACROSS THE ENTIRE WIDTH OF

THE CHANNEL

BOTTOM OF CHANNEL

FILTER

SOCK

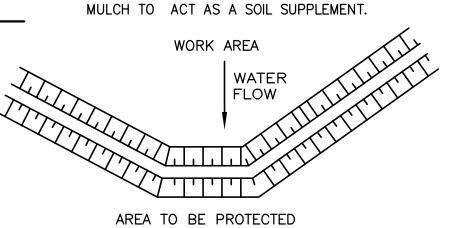
CHANNEL PLACEMENT

SOCK

FILTER

SOCK

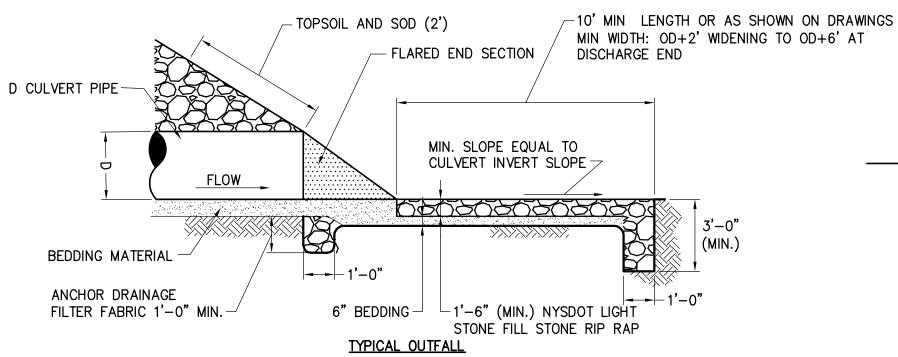
- 1. TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER
- 2. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 3 OF THE EXPOSED HEIGHT OF THE PRACTICE AND DISPOSED OF IN ACCORDANCE WITH THE SWPPP.
- 3. SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED IN THE MANNER REQUIRED BY THE MANUFACTURER OR REPLACED WITHIN 24 HOURS OF FILTER SOCK SHALL BE PLACED PERPENDICULAR TO THE FLOW
  - INSPECTION NOTIFICATION. BIODEGRADABLE FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTO-DEGRADABLE FILTER SOCKS AFTER 1 YEAR. POLY-PROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO THE
  - MANUFACTURER'S RECOMMENDATIONS. 5. UPON STABILIZATION OF THE AREA CONTRIBUTORY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK SHALL BE REMOVED. FOR REMOVAL THE MESH CAN BE CUT AND COMPOST SPREAD AS AN ADDITIONAL

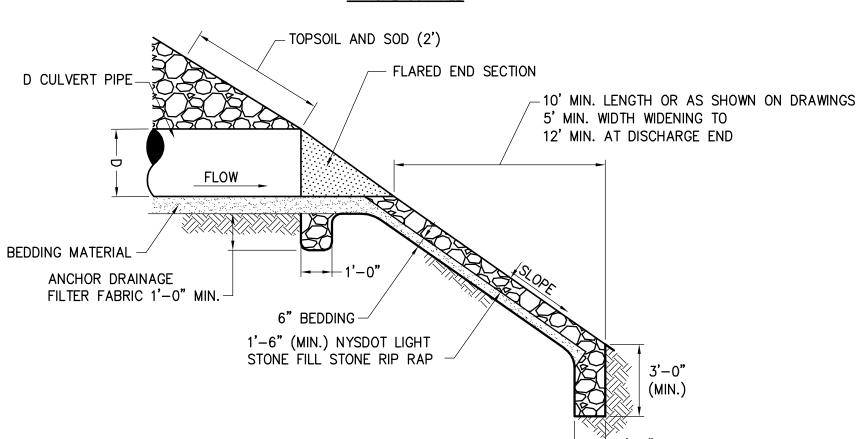


AT GRADE PLACEMENT

COMPOST FILTER SOCK DETAIL SCALE: N.T.S.

7. INSTALL PERPENDICULAR TO FLOW.



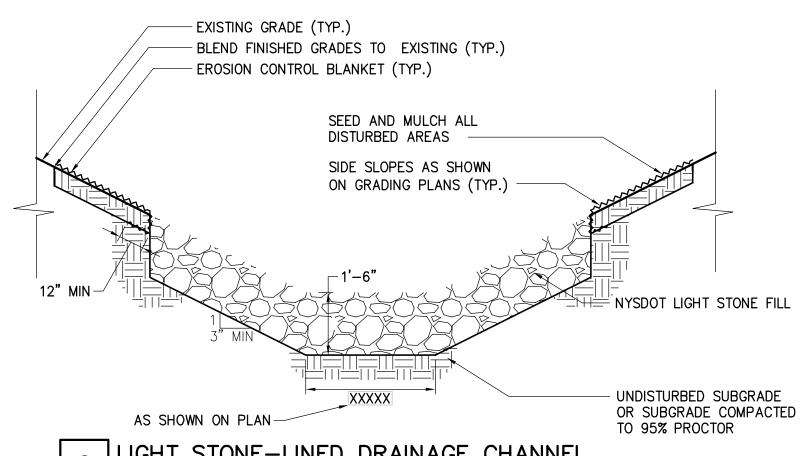


TYPICAL CULVERT OUTFALL RIP RAP

TYPICAL OUTFALL ON SLOPE

EXISTING OR PROPOSED FINISHED GRADE ┌ 1'-0" MIN. 4"-TOPSOIL, SEED SIDE SLOPES AND BOTTOM

TYPICAL GRASS DRAINAGE SWALE



LIGHT STONE-LINED DRAINAGE CHANNEL SCALE: N.T.S.

3 SILT FENCE





**ELEVATION** 



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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.

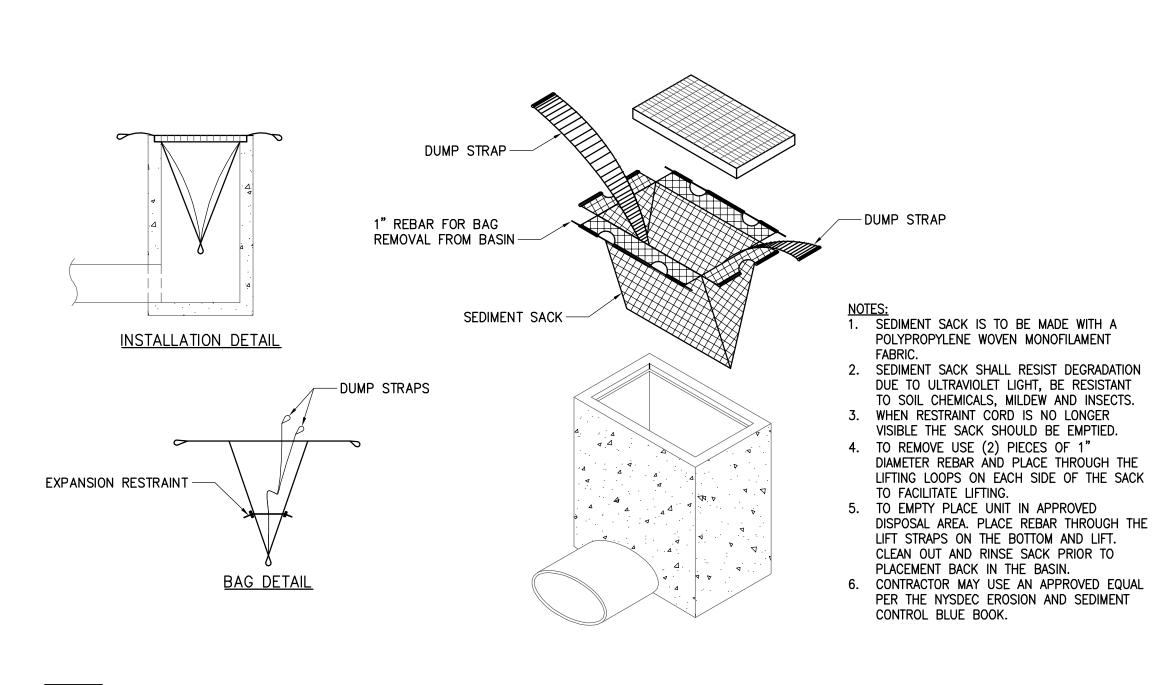
1	01/20/2023	REVISED PER DPS COMMENTS FINAL EM&CP SUBMISSION	ML ML	JR JR	PROJ	PLAIN HI ECT WIDE ION AND	E LA	YDOWN	I YA	RD	PAC
										SC	CALE
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	DRAWN BY: JJE	DESIGNED BY	<b>'</b> : JTM	APPROVED	BY:	JPR <b>R</b> E	V. NO.

CHAMPLAIN HUDSON POWER EXPRESS PROJECT WIDE LAYDOWN YARD PACKAGE **EROSION AND SEDIMENT CONTROL DETAILS** 

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

C-601

AS NOTED DATE 11/11/2022

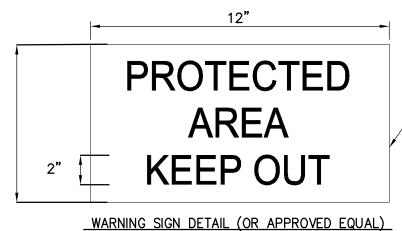


6' LONG 13 GAUGE RUST PROOF -STEEL FENCE POST WITH STABILIZING ANCHOR PLATES -CONSTRUCTION \_3/4" POLYPROPYLENE TWIST ROPE, YELLOW BARRIER ROPE 8' O.C. MAX. -WARNING SIGN (SEE ADJACENT DETAIL) (SIGNS SPACED AT 48' ON CENTER±) EXISTING GRADE ELEVATION

1. CONSTRUCTION BARRIER FENCE SHALL BE INSTALLED IN THE LOCATIONS SHOWN ON THE PLANS PRIOR TO BEGINNING ANY WORK ADJACENT TO THESE AREAS.

2. THE CONTRACTOR SHALL INSTALL AT THE BEGINNING OF THE CONTRACT, AND MAINTAIN THROUGHOUT ITS DURATION.

WORK AREA AREA TO BE PROTECTED -3/4" POLYPROPYLENE TWIST ROPE, YELLOW (SEE DETAIL)-6' LONG 13 GAUGE RUST PROOF -STEEL FENCE POST WITH STABILIZING ANCHOR PLATES FILTREX® SILT SOXX



FASTEN TO FENCE POST OR APPROVED EQUAL

TOE TO BE BACKFILLED

WITH COMPACTED EARTH

3 EROSION CONTROL BANK STABILIZATION DETAIL SCALE: N.T.S.

EROSION CONTROL BLANKETS TO BE INSTALLED ON SLOPES 3:1 OR GREATER (TYP.)

STAPLE OR STAKE PER —

MANUFACTURER'S

NORTH AMERICAN GREEN -

ECB, MIRAFI MIRAMAT OR

APPROVED EQUAL

RECOMMENDATIONS

50' MINIMUM FROM WETLANDS/WATERBODIES PUMP — - TIE DOWN **DISCHARGE** STRAP SPOUT - WATER SEDIMENT\_ DEWATERING | FILTERED — 2' WIDE x 1' HIGH #2 STONE BERM (TYP) — #2 STONE BERM AGGREGATE OR STRAW ---SIDE VIEW

NOTE: THE SEDIMENT DEWATERING BAG WILL BE MANUFACTURED IN THE U.S.A. FROM A NONWOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS:

## SEDIMENT DEWATERING BAG SPECIFICATIONS

UNDERLAY

(FOR ADDED FLOW)

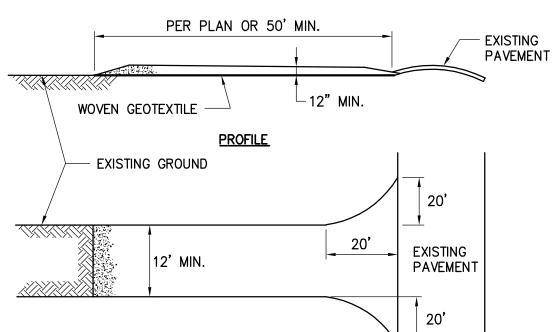
Mechanical Properties	Test Method	Units	MARV
Grab Tensile Strength	ASTM D 4632	kN (lbs)	0.9 (205) × 0.9 (205)
Grab Tensile Elongation	ASTM D 4632	%	50 x 50
Puncture Strength	ASTM D 4833	kN (lbs)	0.58 (130)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	2618 (380)
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.36 (80) X 0.36 (80)
UV Resistence	ASTM D 4355	%	70
Apparent Opening Size	ASTM D 4751	Mm (US Std Sieve)	0.180 (80)
Flow Rate	ASTM D 4491	1/min/m² (gal/min/ft²)	3866 (95)
Permittivity	ASTM D 4491	Sec <sup>-1</sup>	1.2

SEDIMENT DEWATERING BAG



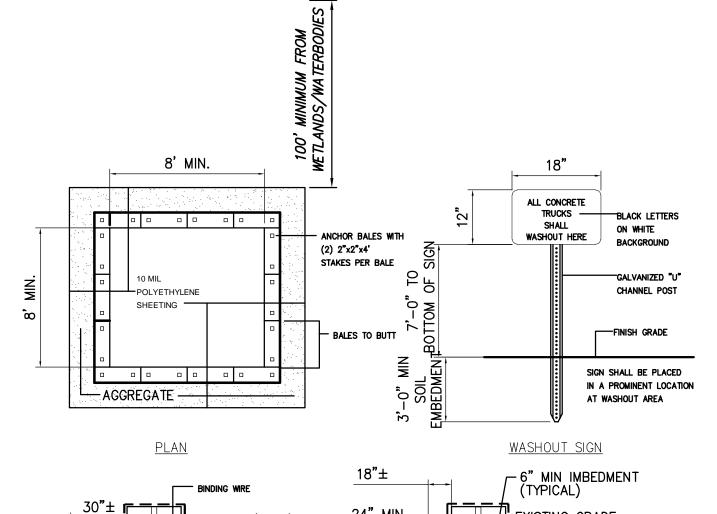
WETLAND PROTECTION FENCE

SCALE: N.T.S.



PLAN VIEW

- 1. STONE SIZE-USE AASHTO M43 SIZE 3 COARSE AGGREGATE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- 2. LENGTH NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD
- 3. THICKNESS NOT LESS THAN 12".
- 4. WIDTH TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ACCESS TO SITE.
- 5. WOVEN GEOTEXTILE FABRIC WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- 6. EXISTING ROAD SIDE DRAINAGE SHALL BE MAINTAINED.
- 7. SURFACE WATER ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- 8. MAINTENANCE-THE ACCESS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT OR STONE SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- 9. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- 10. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.



TYPICAL SECTION

-WHITE LETTERING ON

RED BACKGROUND.

3. DISPOSAL OF THE HARDENED MATERIAL SHALL EXISTING GRADE -

LANDFILL. 4. THE PLASTIC LINER SHALL BE REPLACED WITH EACH CLEANING OF THE WASHOUT FACILITY. 5. INSPECT THE PROJECT SITE FREQUENTLY TO

1. ALL CONCRETE WASHOUT FACILITIES SHALL BE

INSPECTED DAILY. DAMAGED OR LEAKING

FACILITATES SHALL BE DEACTIVATED AND

A STABILIZED AREA SUCH AS A GRASS

REMOVED WHEN 75% OF THE STORAGE

A CONTAINMENT VESSEL AND PROPERLY

REPAIRED OR REPLACED IMMEDIATELY. EXCESS

RAINWATER THAT HAS ACCUMULATED OVER

HARDENED CONCRETE SHALL BE PUMPED TO

ACCUMULATED HARDENED MATERIAL SHALL BE

CAPACITY OF THE STRUCTURE IS FILLED. ANY

EXCESS WASH WATER SHALL BE PUMPED INTO

BE OFF-SITE IN A CONSTRUCTION/DEMOLITION

ENSURE THAT NO CONCRETE DISCHARGES ARE TAKING PLACE IN NON-DESIGNATED AREAS. 6. LOCATION(S) TO BE DETERMINED IN THE FIELD

BY THE OWNER'S REPRESENTATIVE 7. CONCRETE WASHOUTS SHALL NOT BE

MAINTENANCE NOTES:

FILTER STRIP.

DISPOSED OF OFF SITE.

LOCATED WITHIN 200' OF ANY KNOWN WELL.

STABILIZED CONSTRUCTION ACCESS

CONCRETE WASHOUT AREA SCALE: N.T.S.

— 6" MIN DEPTH

AGGREGATE

ALL AROUND

POLYETHYLENE

SHEETING







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1	01/20/2023	REVISED PER DPS COMMENTS	JM	JR	
0	11/11/2022	FINAL EM&CP SUBMISSION	JM	JR	
No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	Г

CHAMPLAIN HUDSON POWER EXPRESS PROJECT WIDE LAYDOWN YARD PACKAGE **EROSION AND SEDIMENT CONTROL DETAILS** 

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

C-602

AS NOTED DATE 11/11/2022

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

## CULVERT REPLACEMENT CONSTRUCTION SEQUENCING

1. INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES.

OF THE EXISTING DRIVING SURFACE.

- 2. INSTALL ALL ENUSION AND SEDIMENT CONTROL MEASURES.
  3. INSTALL A SANDBAG COFFERDAM AT THE UPSTREAM END TO SUPPORT BY—PASS
- PUMPING.
  4. INSTALL A RIPRAP APRON AT THE DOWNSTREAM END TO SUPPORT BY—PASS
- PUMPING.
  5. INSTALL A TRENCH ACROSS THE ROAD TO RUN BY—PASS PUMPING PIPE AND BACKFILL OVERTOP OF THE PIPE WITH CRUSHED STONE TO MATCH THE GRADES
- 6. EXCAVATE THE DOWNSTREAM PORTION OF THE ROADWAY (FIRST HALF OF ROAD).
  7. PREPARE SUBGRADE AND SUBBASE AND INSTALL HALF OF THE NEW CULVERT INLINE WITH THE EXISTING CULVERT. MATCH THE DOWNSTREAM INVERT TO THE TO THAT OF THE PREVIOUS DOWNSTREAM INVERT OF THE CULVERT REPLACED.
- (REMOVE A MINIMUM 100' OF PAVEMENT IN EACH DIRECTION FROM THE CULVERT) 8. INSTALL THE HEADWALL SECTION AND RIPRAP SECTION ALONG THE DOWNSTREAM
- SIDE (IF REQUIRED)

  9. BACKFILL AND COMPACT IN LIFTS AROUND THE HALF SECTION OF NEWLY
  INSTALLED CULVERT AND INSTALL A COMPACTED CRUSHED STONE DRIVING
- SURFACE OVER TOP OF THE BACKFILLED AREA.

  10. ADJUST MAINTENANCE AND PROTECTION OF TRAFFIC MEASURES AS NECESSARY TO INSTALL THE SECOND HALF OF THE CULVERT.
- 11. EXCAVATE THE UPSTREAM PORTION OF ROADWAY (SECOND HALF OF ROAD)
  12. PREPARE SUBGRADE AND SUBBASE AND INSTALL HALF OF THE CULVERT INLINE
  WITH THE NEWLY INSTALLED DOWNSTREAM PORTION OF CULVERT. MATCH THE
  UPSTREAM INVERT TO THE TO THAT OF THE PREVIOUS UPSTREAM INVERT OF THE
  CULVERT REPLACED. (REMOVE A MINIMUM 100' OF PAVEMENT IN EACH DIRECTION
  FROM THE CULVERT)
- 13. INSTALL THE HEADWALL SECTION AND RIPRAP SECTION ALONG THE UPSTREAM SIDE (IF REQUIRED)
- 14. ALLOW FLOW THROUGH THE NEWLY INSTALLED CULVERT BY REMOVING THE
- SANDBAG COFFERDAM.
  15. BACKFILL AND COMPACT IN LIFTS THE EXCAVATED AREAS AROUND THE NEW
- CULVERT SECTION AND INSTALL A CRUSHED STONE DRIVING SURFACE.

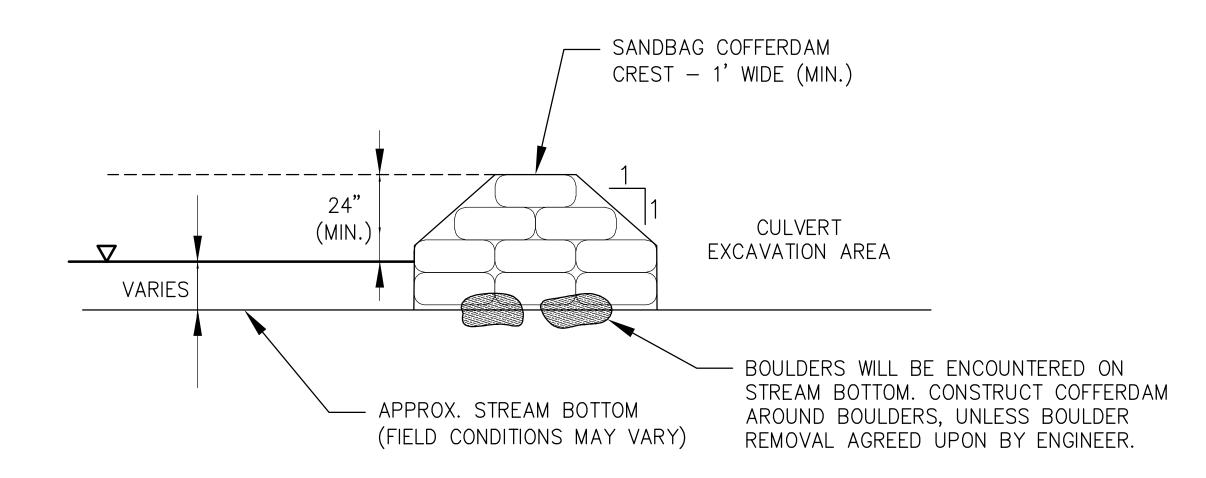
  16. ROUGH GRADE THE EMBANKMENT BACKFILL AND COMPACT IN LIFTS.
- 17. FINE GRADE THE ROADWAY SUBBASE AND BASE COURSES TO MACH THE EXISTING
- 18. INSTALL THE PORTION OF ROADWAY SECTION ABOVE THE INSTALLED CULVERT TO MATCH EX. GRADE.
- MATCH EX. GRADE.

  19. TOPSOIL SEED AND MULCH THE GRADED EMBANKMENT AREA.
- 20. REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AT THE SUBSTANTIAL COMPLETION OF THE CULVERT REPLACEMENT

## BY-PASS PUMPING NOTE:

1. CONTRACTOR SHALL PROVIDE 24—HOUR BY—PASS PUMPING OF THE STREAM DURING THE REMOVAL OF EXISTING CULVERT THROUGH THE INSTALLATION OF THE NEW CULVERT.

TYPICAL CULVERT REPLACEMENT SEQUENCING



NOTE:

- 1. SAND BAGS SHALL BE FILTER FABRIC TYPE AND BE DOUBLE BAGGED.
- 2. PORTADAM, BY PORTADAM, INC. SHALL BE CONSIDERED ACCEPTABLE SUBSTITUTE TO SAND BAGS.

O.D. + 3'-0"

BACKFILL WITH SUITABLE MATERIAL
(NYS DOT ITEM NO. 203.02)

PIPE ZONE BACKFILL
(NYS DOT SUBASE TYPE 4, ITEM NO. 304.14)
1/2 0.D. + 12" MIN.

PIPE ZONE BEDDING
(NYS DOT NO. 2 STONE, ITEM NO. 703.02)
1/2 0.D. + 8"

UNDISTURBED MATERIAL

OPTIONAL EXTRA BEDDING AS
ORDERED BY THE ENGINEER

NOTES:

1. WHERE IDENTIFIED ON PLANS, CULVERT REPLACEMENTS AND/OR REPAIR TO BE COMPLETED IN ACCORDANCE WITH NYSDOT STANDARD SHEETS (NYSDOT STANDARD SHEET GROUP 603 CULVERTS AND STORM DRAINS AND NYSDOT BRIDGE DETAIL SHEETS BD—CB1 THRU BD—CB13)

3 CULVERT REPLACEMENT
SCALE: N.T.S.





SANDBAG COFFERDAM DETAIL



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CHAMPLAIN HUDSON POWER EXPRESS
PROJECT WIDE LAYDOWN YARD PACKAGE
TYPICAL CULVERT INSTALLATION AND
REPLACEMENT DETAILS

C A 2 2

C-632

JR

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