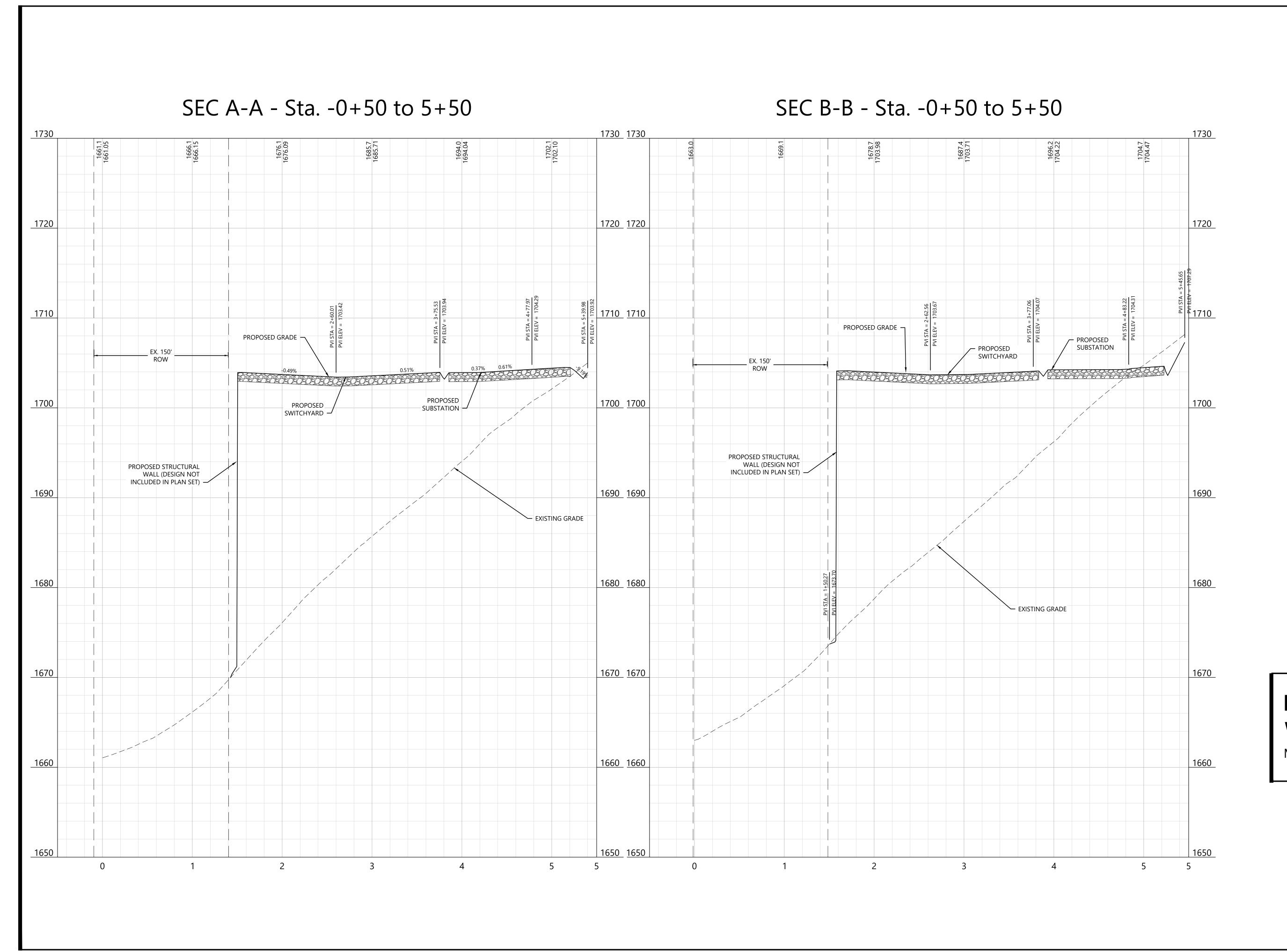


**Surveying & Engineering** 

/ISIONS:				
DATE	COMMENT	BY	CHK	APR
01/26/2024	ISSUE FOR PERMIT	HR	HR	AL
05/23/2024	NOIA Response	HR	HR	AL



Westwood **Surveying & Engineering** 

Westwood Surveying and Engineering, P.C.

EOR: Alejandro Alvarado, PE

Hoffman Falls Wind LLC

90 State Street Albany, NY 12207

RE	EVISIONS:				
#	DATE	COMMENT	BY	CHK	APR
0	01/26/2024	ISSUE FOR PERMIT	HR	HR	AL

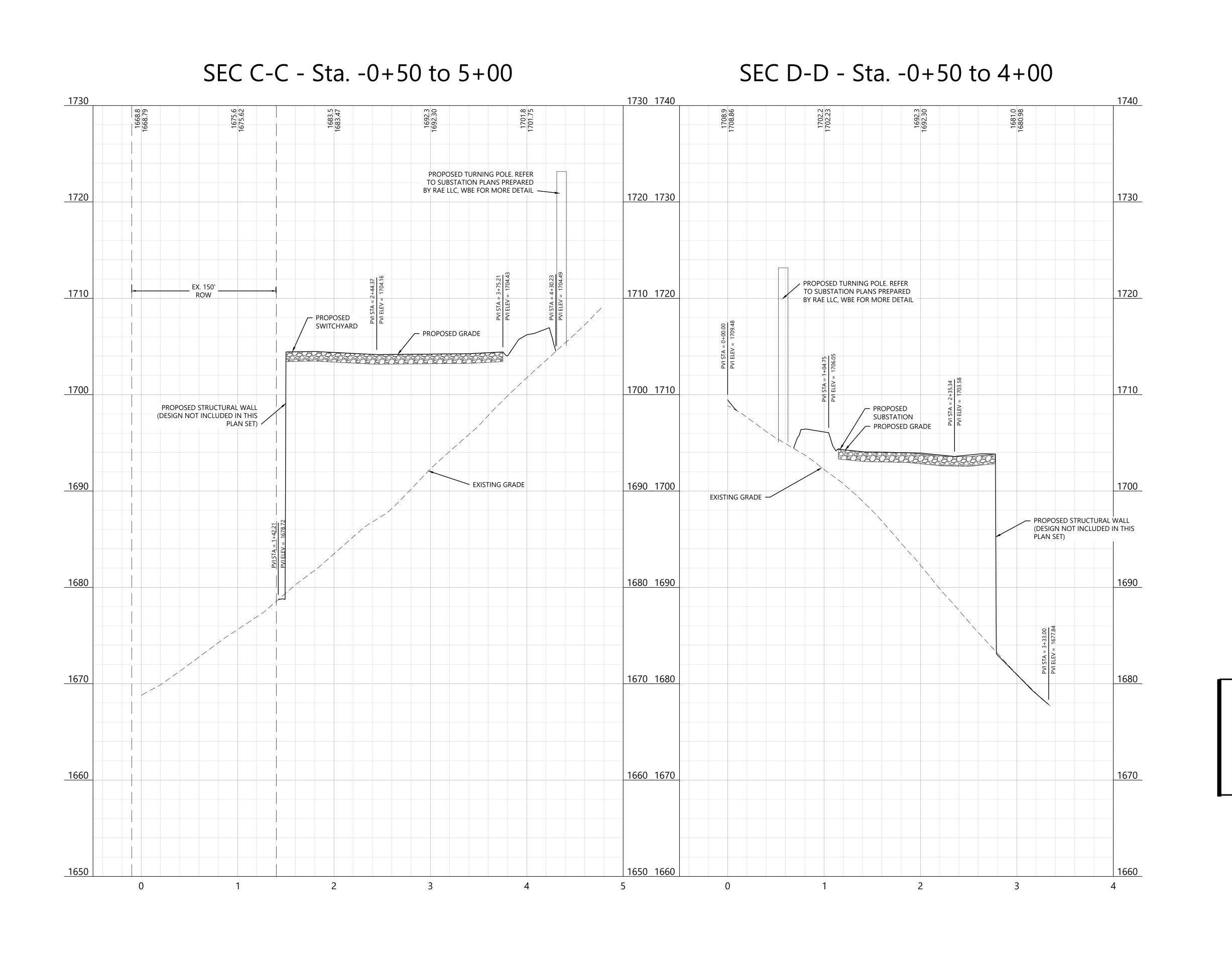
# **Hoffman Falls Wind Project**

Madison County, New York

Substation & Switchyard - Cross Sections 1

**ISSUE FOR PERMIT** 

01/26/2024



Westwood
Surveying & Engineering

Phone (214) 473-4640
Toll Free (888) 937-5150

2805 North Dallas Parkway, Suite #150
Plano, TX 75093
ww-pc.com

Westwood Surveying and Engineering, P.C.

EOR: Alejandro Alvarado, PE

# Hoffman Falls Wind LLC

90 State Street Albany, NY 12207

RE	VISIONS:				
#	DATE	COMMENT	BY	CHK	APR
0	01/26/2024	ISSUE FOR PERMIT	HR	HR	AL

# Hoffman Falls Wind Project

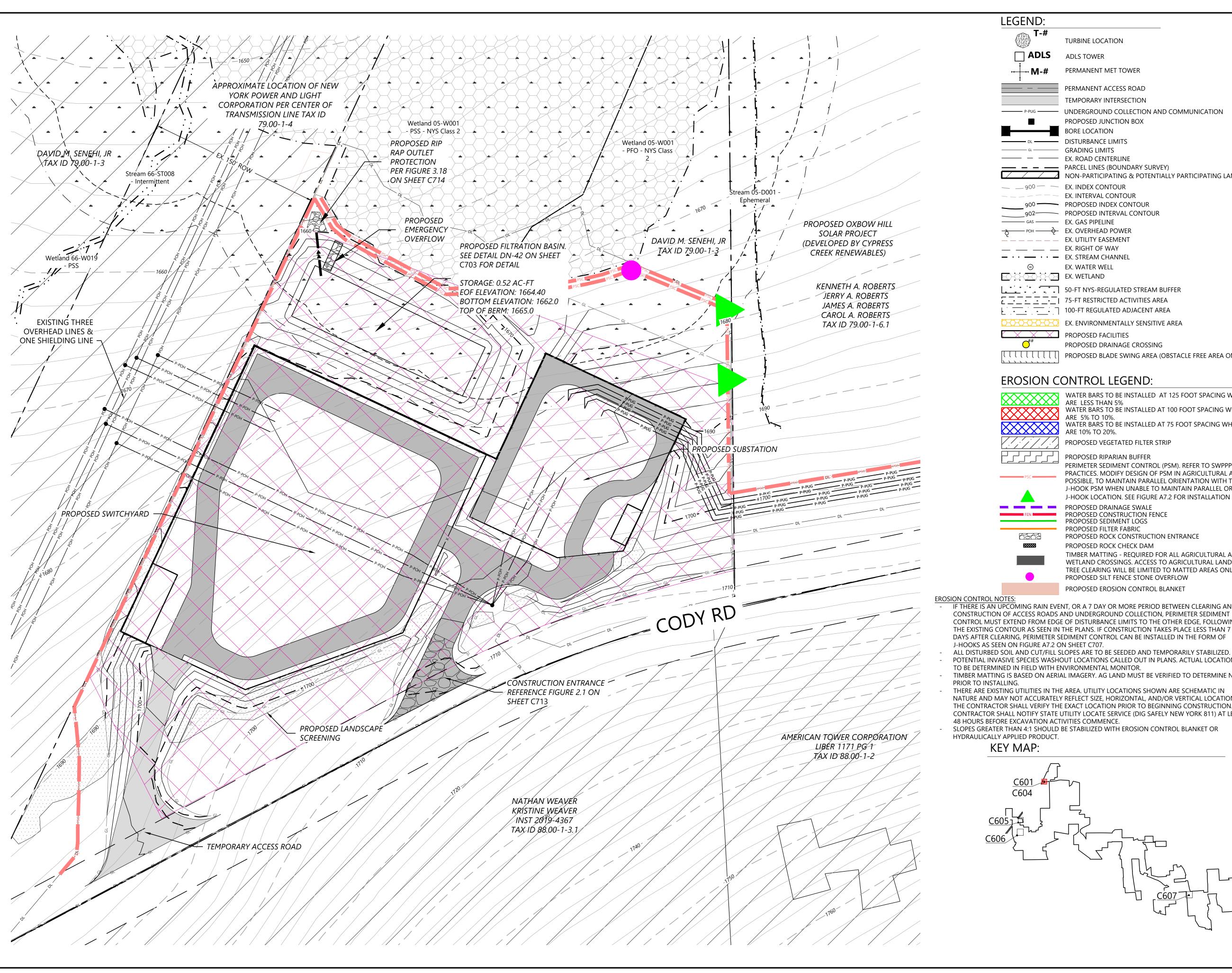
Madison County, New York

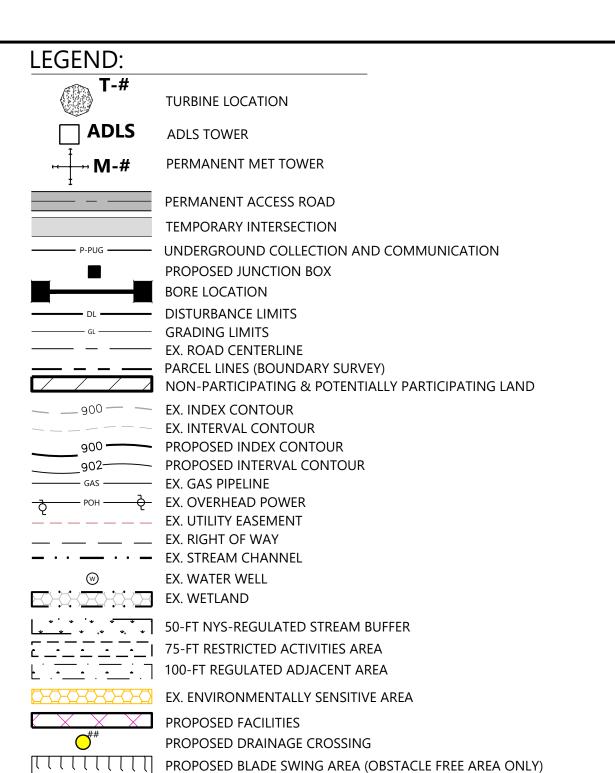
Substation & Switchyard - Cross Sections 2

**ISSUE FOR PERMIT** 

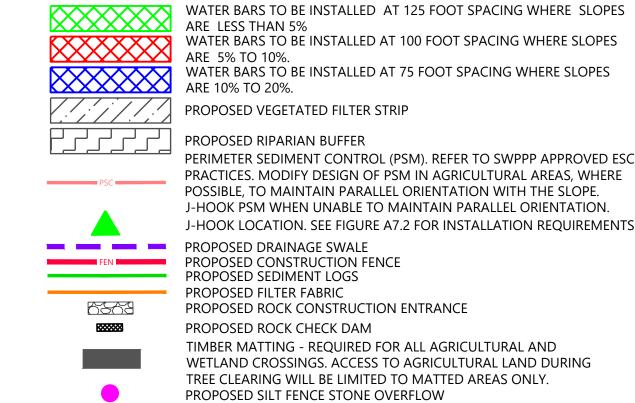
DATE: 01/26/2024

C603





### **EROSION CONTROL LEGEND:**



PROPOSED EROSION CONTROL BLANKET

**EROSION CONTROL NOTES:** 

CONTROL MUST EXTEND FROM EDGE OF DISTURBANCE LIMITS TO THE OTHER EDGE, FOLLOWING THE EXISTING CONTOUR AS SEEN IN THE PLANS. IF CONSTRUCTION TAKES PLACE LESS THAN 7 DAYS AFTER CLEARING, PERIMETER SEDIMENT CONTROL CAN BE INSTALLED IN THE FORM OF J-HOOKS AS SEEN ON FIGURE A7.2 ON SHEET C707.

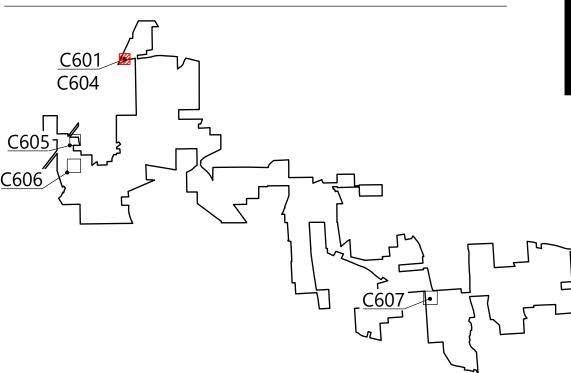
POTENTIAL INVASIVE SPECIES WASHOUT LOCATIONS CALLED OUT IN PLANS. ACTUAL LOCATIONS TO BE DETERMINED IN FIELD WITH ENVIRONMENTAL MONITOR. TIMBER MATTING IS BASED ON AERIAL IMAGERY. AG LAND MUST BE VERIFIED TO DETERMINE NEED

PRIOR TO INSTALLING. THERE ARE EXISTING UTILITIES IN THE AREA. UTILITY LOCATIONS SHOWN ARE SCHEMATIC IN NATURE AND MAY NOT ACCURATELY REFLECT SIZE, HORIZONTAL, AND/OR VERTICAL LOCATION.

THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY STATE UTILITY LOCATE SERVICE (DIG SAFELY NEW YORK 811) AT LEAST 48 HOURS BEFORE EXCAVATION ACTIVITIES COMMENCE.

SLOPES GREATER THAN 4:1 SHOULD BE STABILIZED WITH EROSION CONTROL BLANKET OR HYDRAULICALLY APPLIED PRODUCT.

### KEY MAP:



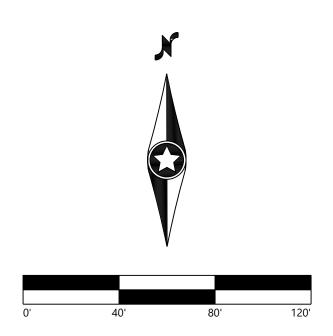


EOR: Alejandro Alvarado, PE

### Hoffman Falls Wind LLC

90 State Street Albany, NY 12207

E	VISIONS:				
Ŀ	DATE	COMMENT	BY	CHK	API
)	01/26/2024	ISSUE FOR PERMIT	HR	HR	AL



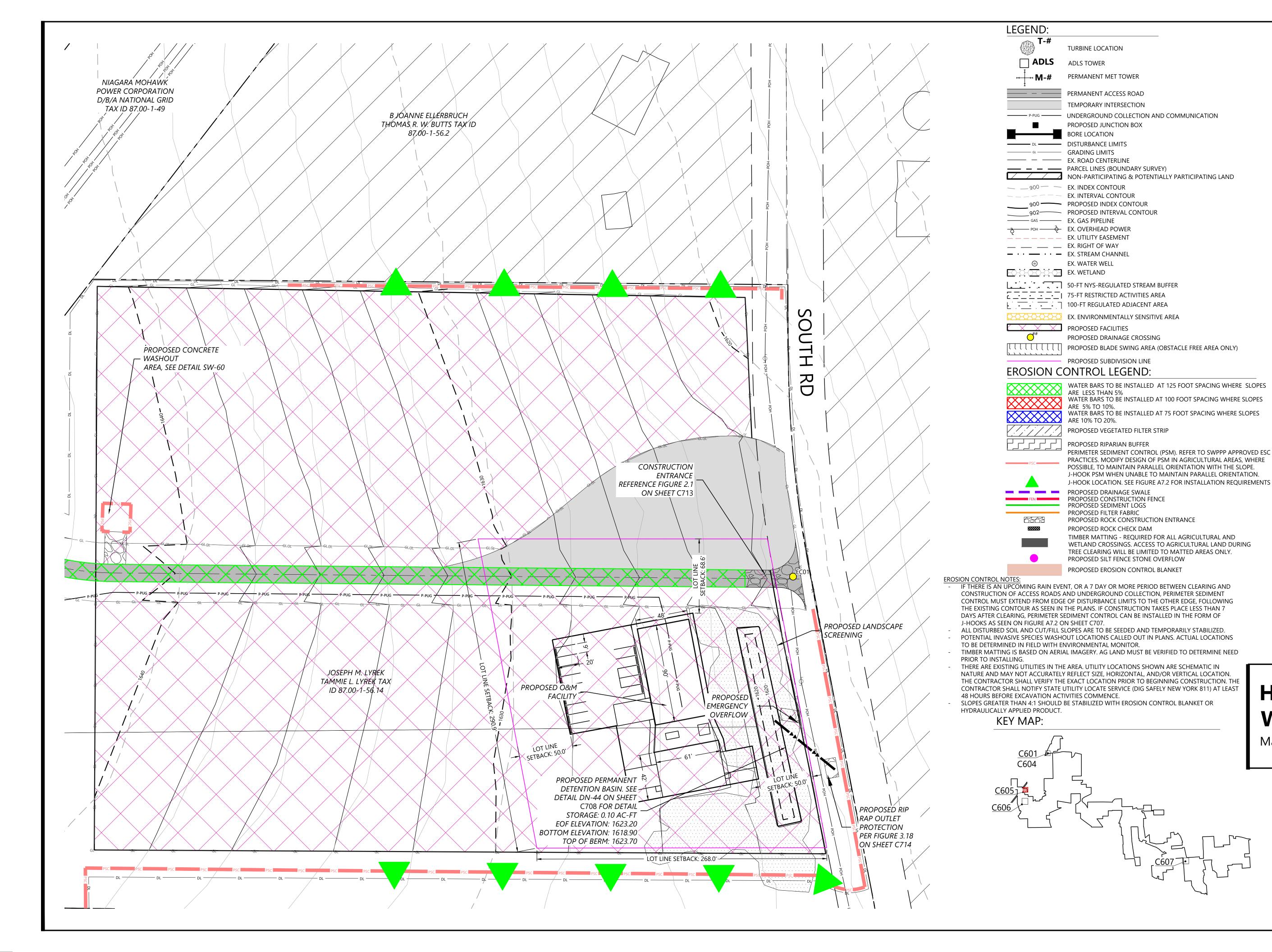
# **Hoffman Falls Wind Project**

Madison County, New York

Substation & Switchyard - Erosion Control

ISSUE FOR PERMIT

01/26/2024



Westwood
Surveying & Engineering

Phone (214) 473-4640 2805 North Dallas Parkway, Suite #150
Toll Free (888) 937-5150 Plano, TX 75093
ww-pc.com

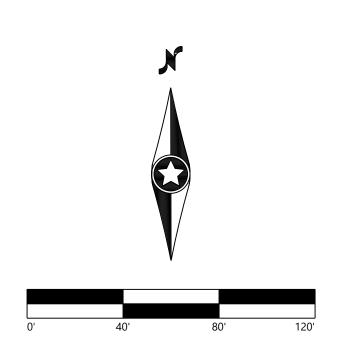
Westwood Surveying and Engineering, P.C.

EOR: Alejandro Alvarado, PE

### Hoffman Falls Wind LLC

90 State Street Albany, NY 12207

EVISIONS:				
DATE	COMMENT	ВҮ	CHK	ΑP
01/26/2024	ISSUE FOR PERMIT	HR	HR	Al



# Hoffman Falls Wind Project

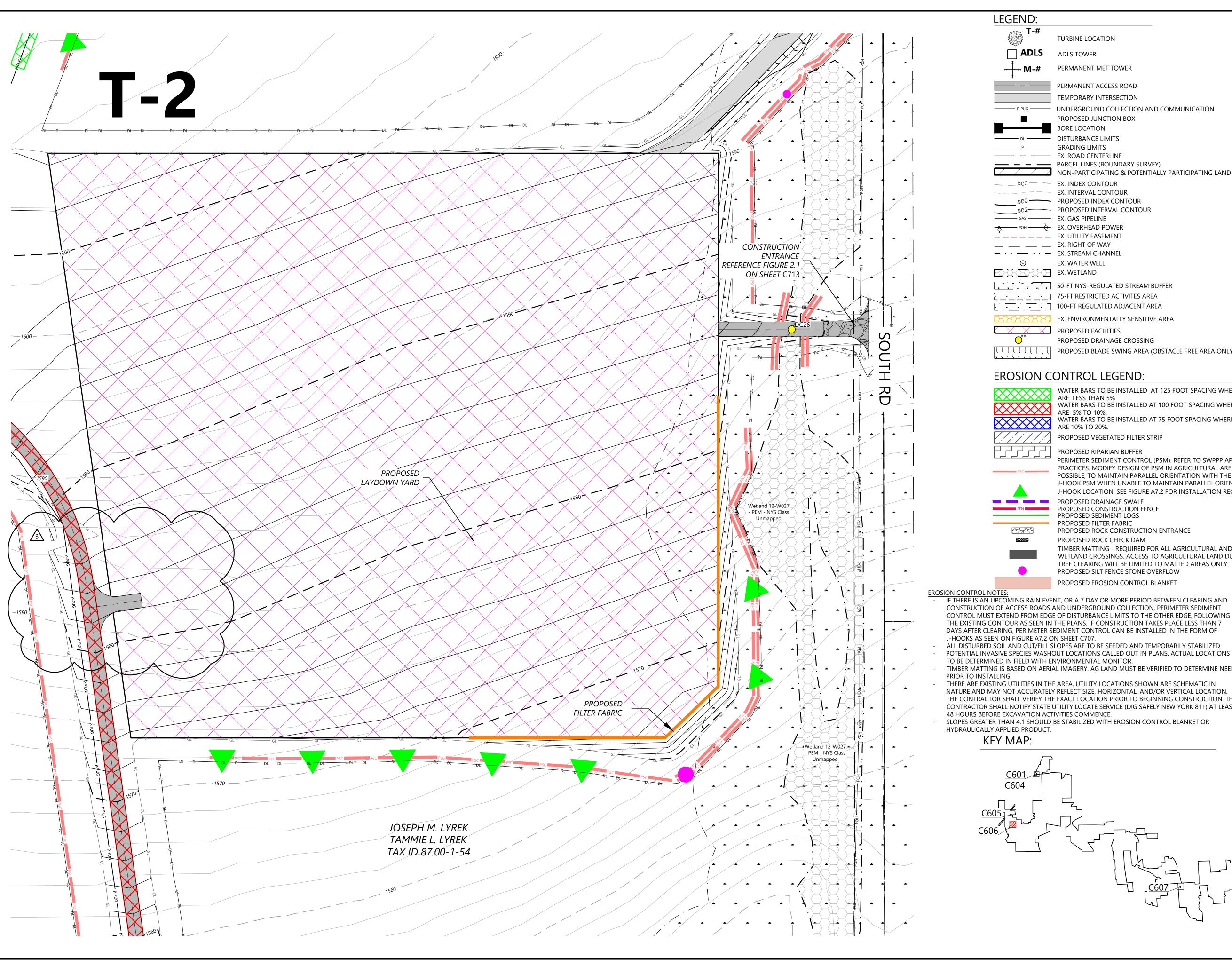
Madison County, New York

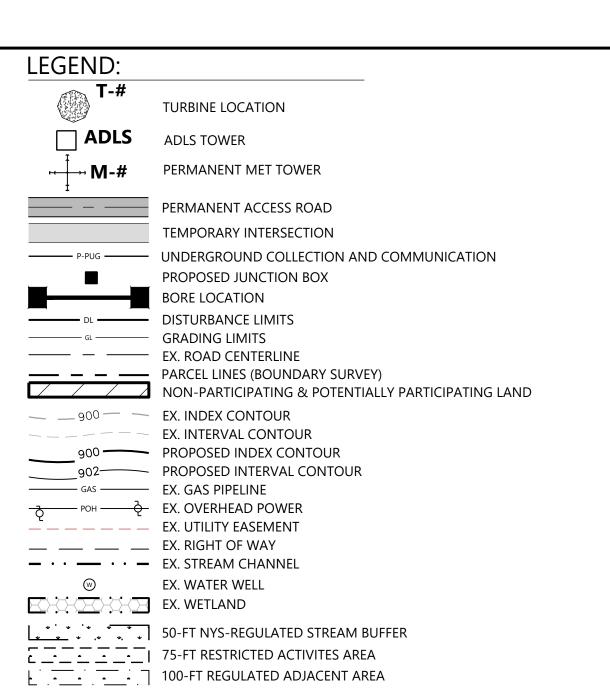
O&M & Laydown Area

ISSUE FOR PERMI

DATE: 01/26/2024

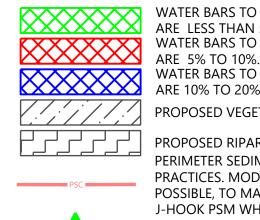
T. C605





### **EROSION CONTROL LEGEND:**

PROPOSED FACILITIES



WATER BARS TO BE INSTALLED AT 125 FOOT SPACING WHERE SLOPES ARE LESS THAN 5% WATER BARS TO BE INSTALLED AT 100 FOOT SPACING WHERE SLOPES

WATER BARS TO BI ARE 10% TO 20%. WATER BARS TO BE INSTALLED AT 75 FOOT SPACING WHERE SLOPES PROPOSED VEGETATED FILTER STRIP

EX. ENVIRONMENTALLY SENSITIVE AREA

PROPOSED BLADE SWING AREA (OBSTACLE FREE AREA ONLY)

PROPOSED DRAINAGE CROSSING

PROPOSED RIPARIAN BUFFER PERIMETER SEDIMENT CONTROL (PSM). REFER TO SWPPP APPROVED ESC PRACTICES. MODIFY DESIGN OF PSM IN AGRICULTURAL AREAS, WHERE POSSIBLE, TO MAINTAIN PARALLEL ORIENTATION WITH THE SLOPE. J-HOOK PSM WHEN UNABLE TO MAINTAIN PARALLEL ORIENTATION. J-HOOK LOCATION. SEE FIGURE A7.2 FOR INSTALLATION REQUIREMENTS PROPOSED CONSTRUCTION FENCE

PROPOSED FILTER FABRIC PROPOSED ROCK CONSTRUCTION ENTRANCE PROPOSED ROCK CHECK DAM

TIMBER MATTING - REQUIRED FOR ALL AGRICULTURAL AND PROPOSED SILT FENCE STONE OVERFLOW

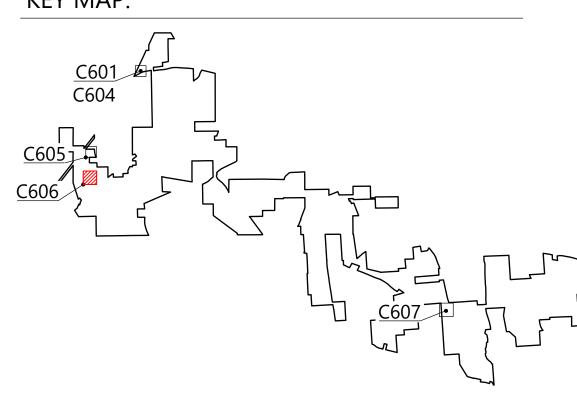
PROPOSED EROSION CONTROL BLANKET

**EROSION CONTROL NOTES:** 

TIMBER MATTING IS BASED ON AERIAL IMAGERY. AG LAND MUST BE VERIFIED TO DETERMINE NEED

SLOPES GREATER THAN 4:1 SHOULD BE STABILIZED WITH EROSION CONTROL BLANKET OR HYDRAULICALLY APPLIED PRODUCT.

## KEY MAP:





**Surveying & Engineering** 

Westwood Surveying and Engineering, P.C.

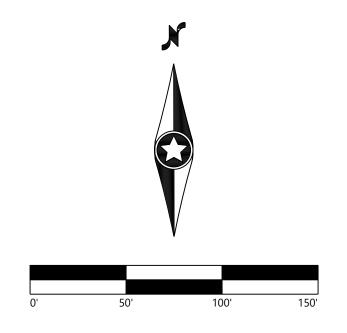
Phone (214) 473-4640 2805 North Dallas Parkway, Suite #150 Toll Free (888) 937-5150 Plano, TX 75093

EOR: Alejandro Alvarado, PE

# Hoffman Falls Wind LLC

### 90 State Street Albany, NY 12207

E	VISIONS:				
Ŀ	DATE	COMMENT	BY	CHK	API
)	01/26/2024	ISSUE FOR PERMIT	HR	HR	AL
	08/22/2024	T1,T2,T11,T15 TURBINE SHIFT	HR	HR	AL



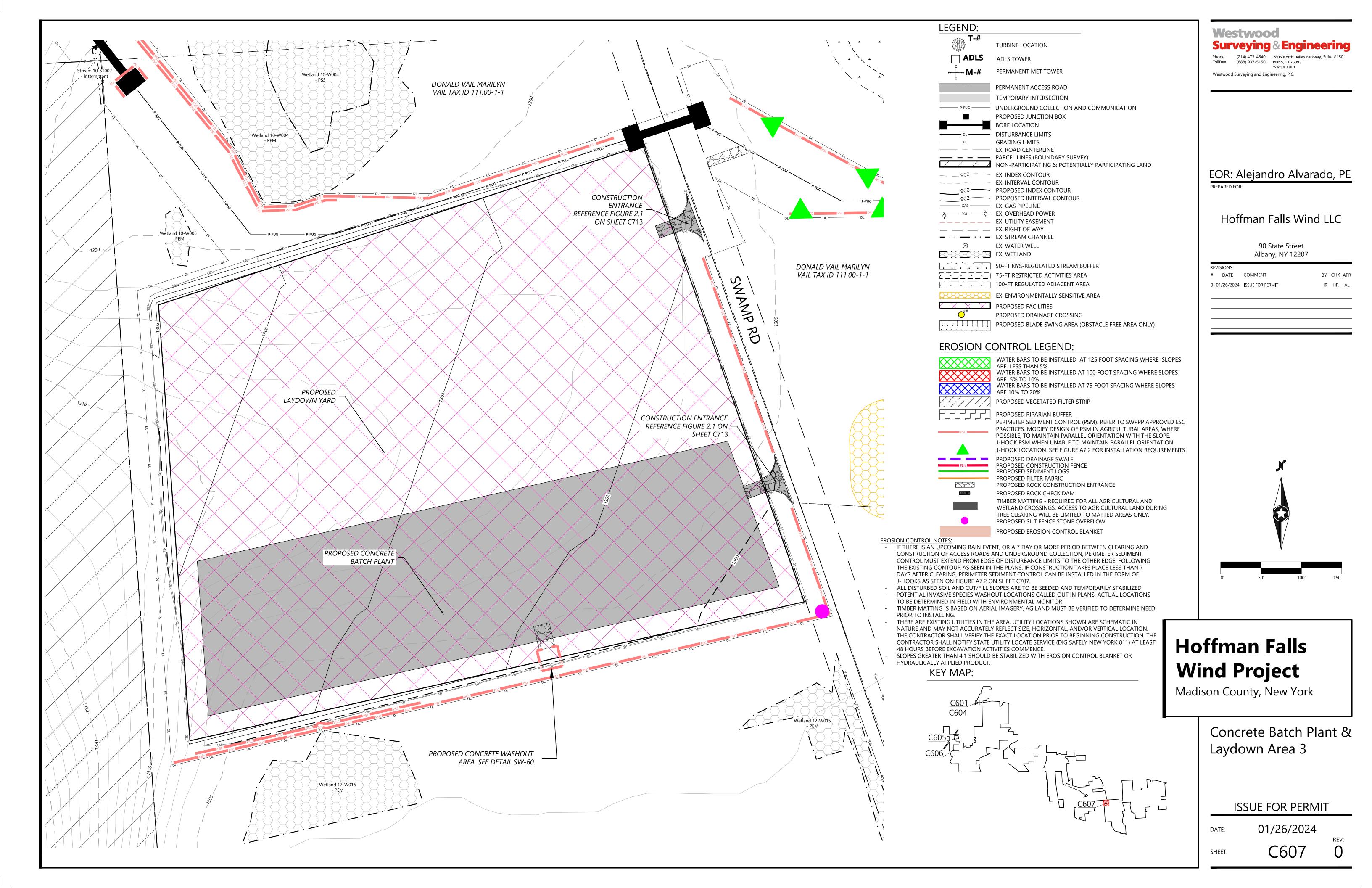
# **Hoffman Falls Wind Project**

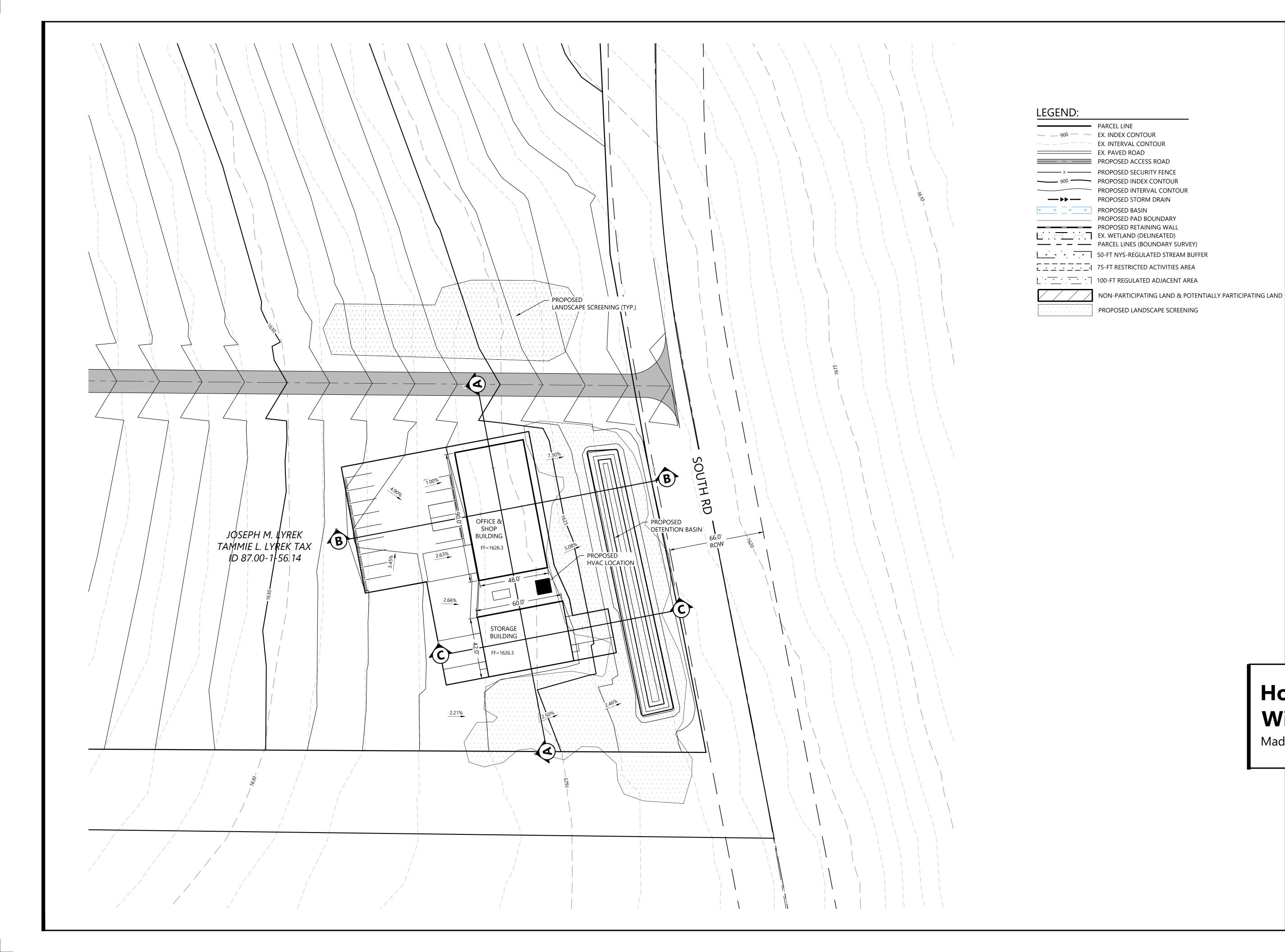
Madison County, New York

Laydown Area 2

ISSUE FOR PERMIT

08/22/2024





Westwood
Surveying & Engineering

Phone (214) 473-4640
Toll Free (888) 937-5150
Plano, TX 75093
ww-pc.com

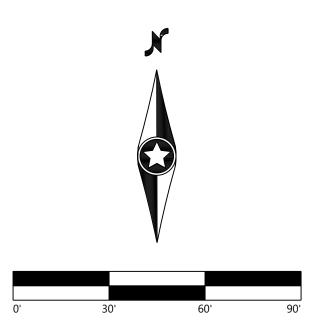
ww-pc.com
Westwood Surveying and Engineering, P.C.

EOR: Alejandro Alvarado, PE

Hoffman Falls Wind LLC

90 State Street Albany, NY 12207

RE	VISIONS:				
#	DATE	COMMENT	ВҮ	СНК	APR
0	01/26/2024	ISSUE FOR PERMIT	HR	HR	AL



# Hoffman Falls Wind Project

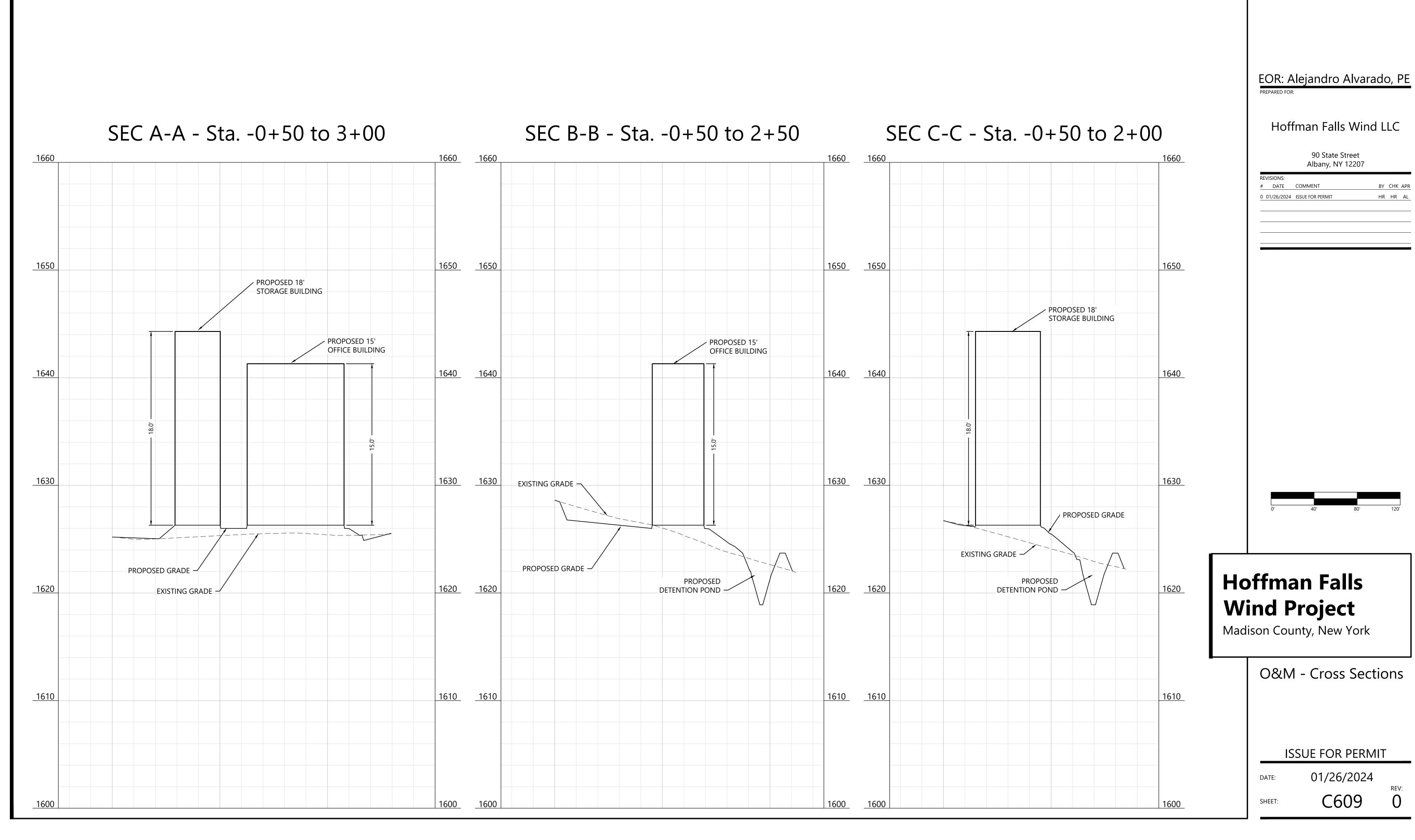
Madison County, New York

O&M - Grading Plan

**ISSUE FOR PERMIT** 

ATE: 01/26/2024

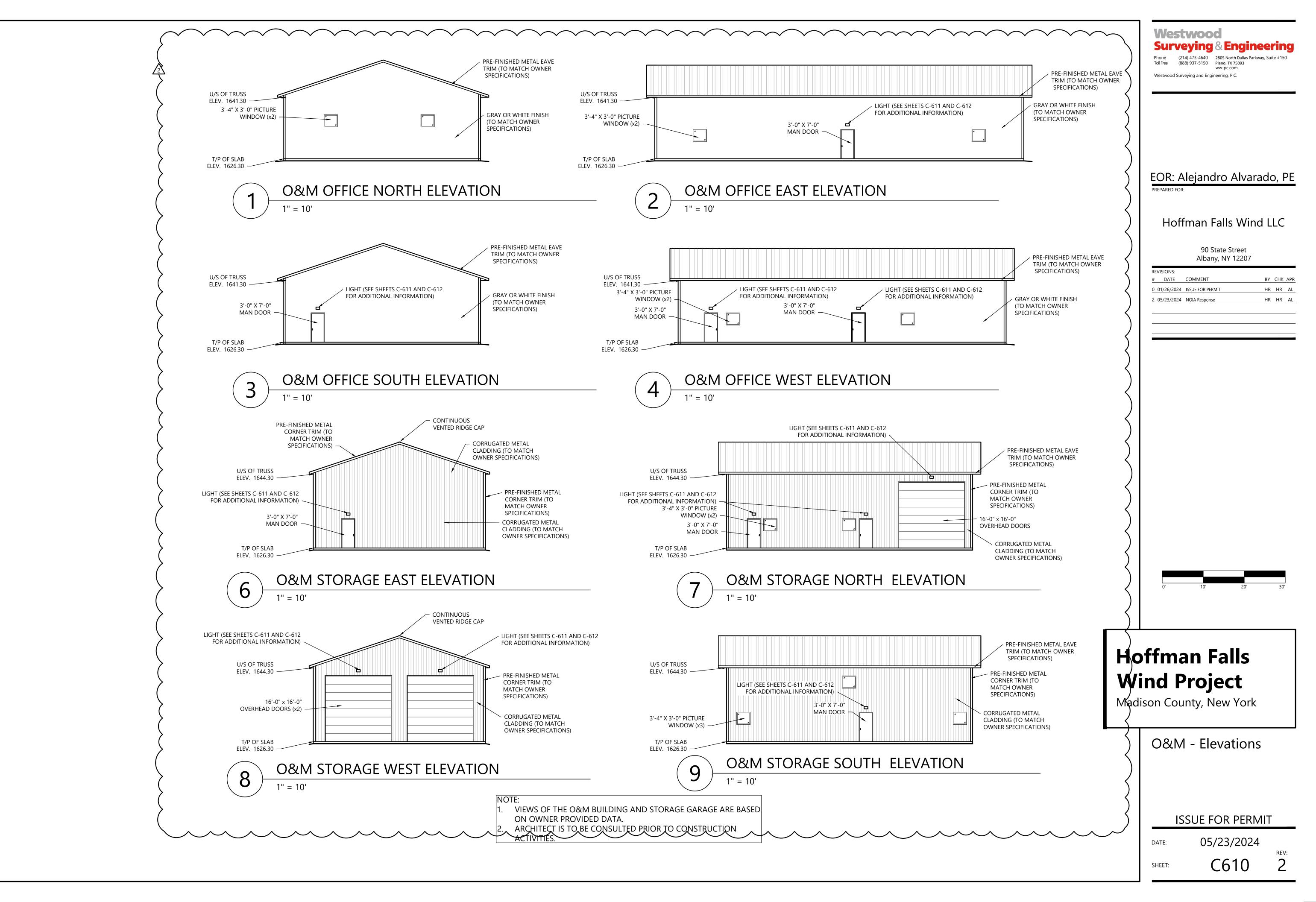
C600



Westwood **Surveying & Engineering** 

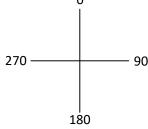
Westwood Surveying and Engineering, P.C.

EVISIONS:				
DATE	COMMENT	ВҮ	CHK	ΑP
01/26/2024	ISSUE FOR PERMIT	HR	HR	Αl



**ACCESS ROAD** DETENTION BASIN STORAGE BUILDING 4 GRADING LIMITS... GL DISTURBANCE LIMITS +0.0

	LUMINAIRE SCHEDULE											
LABEL	QTY	CATALOG NUMBER	DESCRIPTION	LAMP	LUMENS	WATTAGE						
CONTROL ENCLOSURE	11	SLIMFC37Y (FULL CUT-OFF HOOD)	CAST BROWN PAINTED METAL HOUSING, EXTRUDED 2-PIECE DIFFUSE METAL HEAT SINK, 1 WHITE CIRCUIT BOARD WITH 16 LEDS, MOLDED PLASTIC REFLECTOR WITH SPECULAR FINISH FULL CUTOFF 0 DEGREES, 37W, 3000K COLOR TEMP., 0-10V DIMMING, CLEAR FLAT PRISMATIC GLASS LENS IN CAST BROWN PAINTED METAL LENS FRAME WITH INTEGRAL VISOR. LENS PRISMS DOWN.	LED	209	35.2						



ORIENTATION ANGLE REFERENCE

LUMINAIRE LOCATIONS											
LIGHT#	LABEL MTG. HEIGHT ORIENTATION TILT ANG										
1	Control Enclosure Light	9'-0"	248	0							
2	Control Enclosure Light	9'-0"	251	0							
3	Control Enclosure Light	9'-0"	72	0							
4	Control Enclosure Light	9'-0"	72	0							
5	Control Enclosure Light	9'-0"	165	0							
6	Control Enclosure Light	9'-0"	341	0							
7	Control Enclosure Light	9'-0"	333	0							
8	Control Enclosure Light	9'-0"	180	0							
9	Control Enclosure Light	16'-0"	345	0							
10	Control Enclosure Light	16'-0"	251	0							
11	Control Enclosure Light	16'-0"	255	0							

PROPERTY LINE

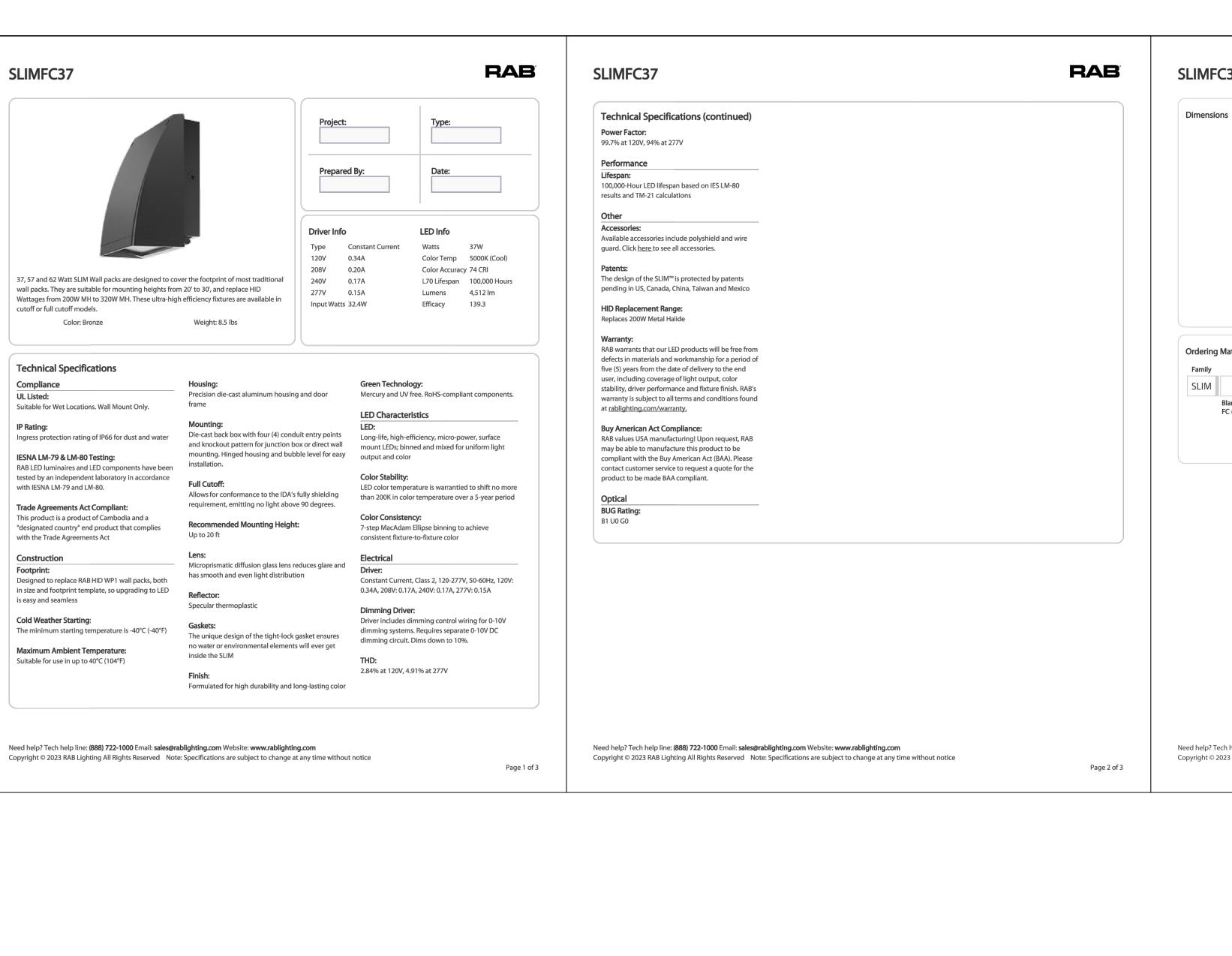
NOT FOR CONSTRUCTION

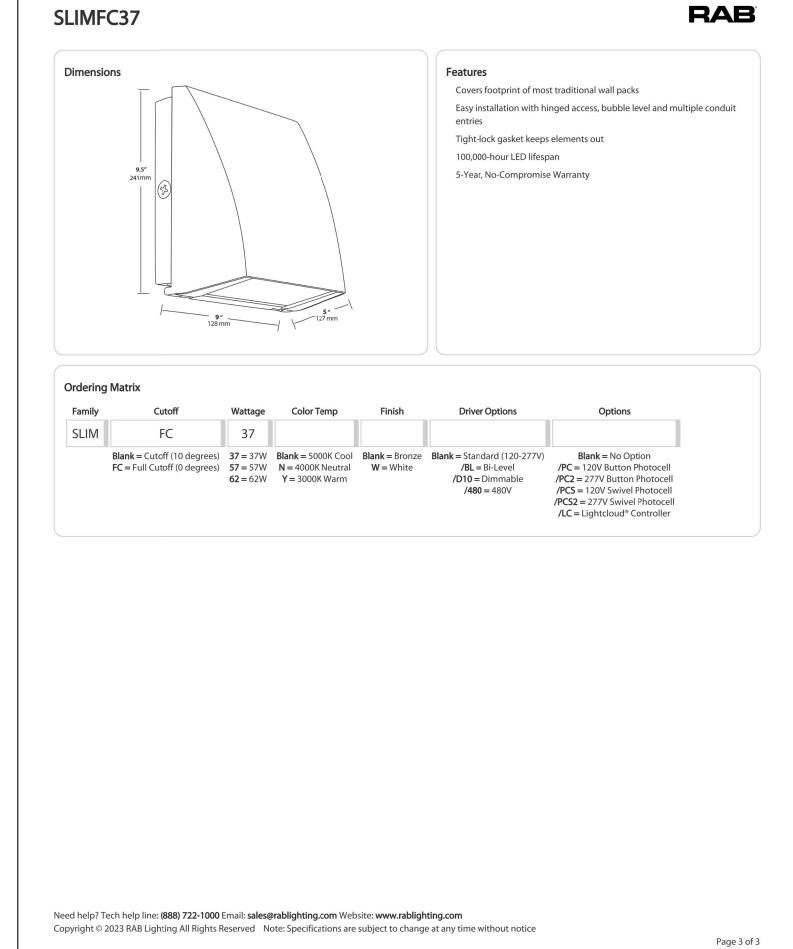
PROPRIETARY INFORMATION	REV.:	DATE:	DESCRIPTION OF REVISION:	DRAWN:	CHECKED:	APPRV'D:	P.E. \$
REYNOLDS ARCHITECTURAL ENGINEERING							
CLAIMS PROPRIETARY RIGHTS TO THE INFORMATION, DESIGN AND LAYOUT							DI
DISCLOSED HEREIN. THIS DRAWING IS ISSUED FOR INFORMATIONAL PURPOSES							SC
ONLY AND MAY NOT BE REPRODUCED, DISCLOSED TO OTHERS OR USED TO							-
DESIGN OR CONSTRUCT ANY OF THE ITEMS SHOWN HEREIN WITHOUT THE EXPRESSED							-
WRITTEN CONSENT OF REYNOLDS							
ARCHITECTURE ENGINEERING.	Α	05/28/2024	O&M ILLUMINATION W/ CUT SHEETS	ТВ	SR	SR	

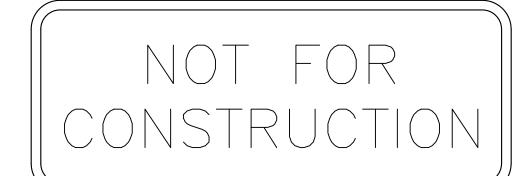


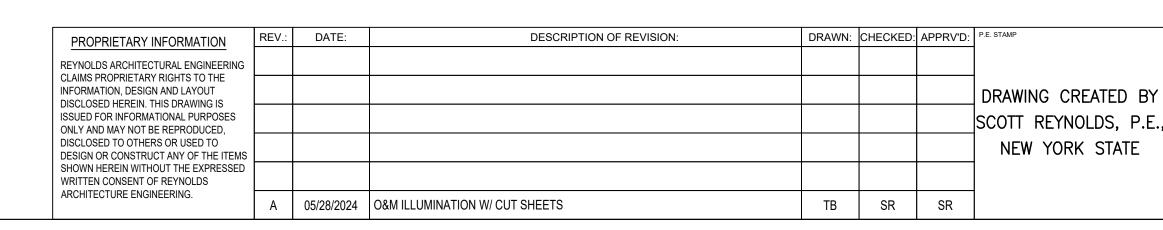
HOFFMAN FALLS WIND PROJECT - 100MWAC
HOFFMAN FALLS WIND LLC
3604 CODY RD., FENNER, NY 13035
ILLUMINATION PLAN
O & M BUILDING

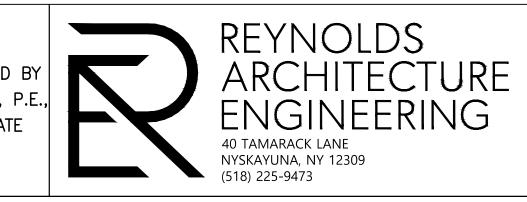
PROJ. NO.:			N 4 I	
		HF	MF	
DWG. NO:		C-6	611	
SH:	1		REV:	Α
SCALE:	1.	/2"=	:1'-0"	





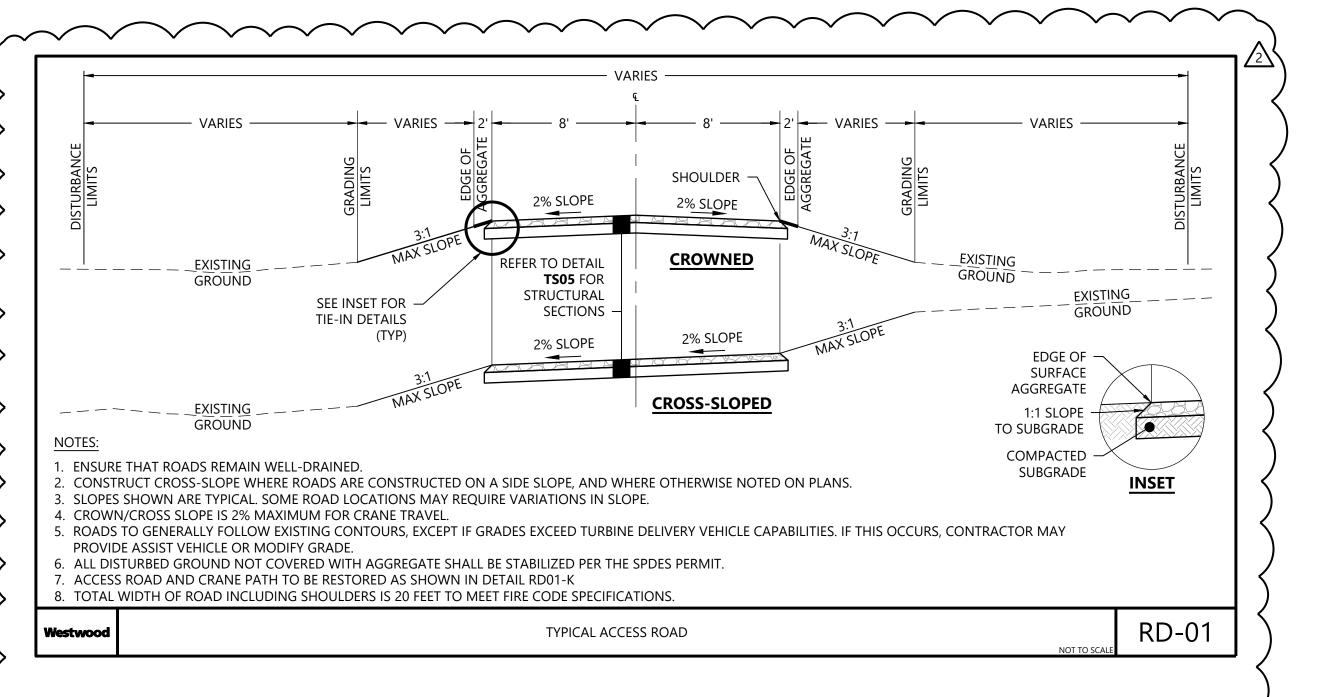


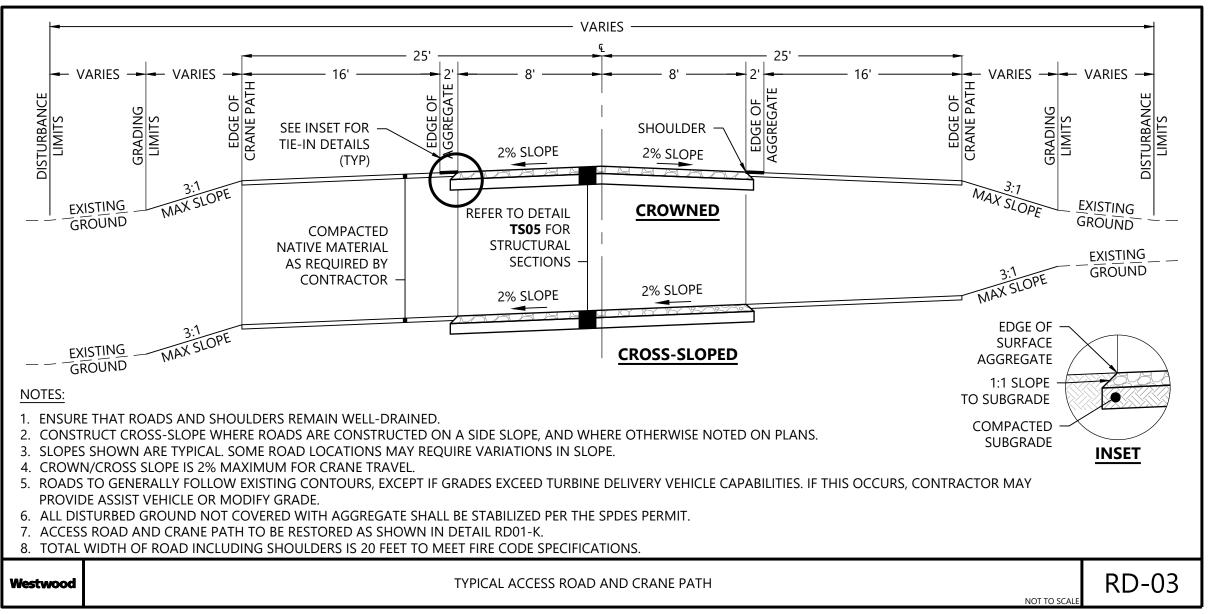


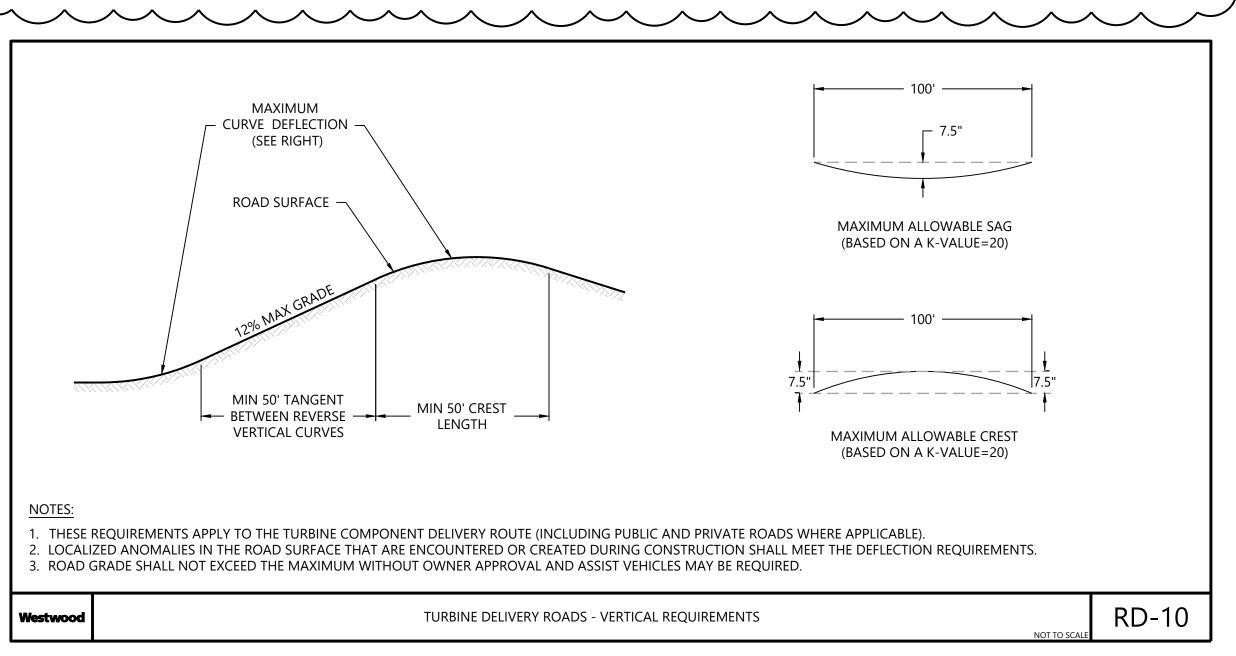


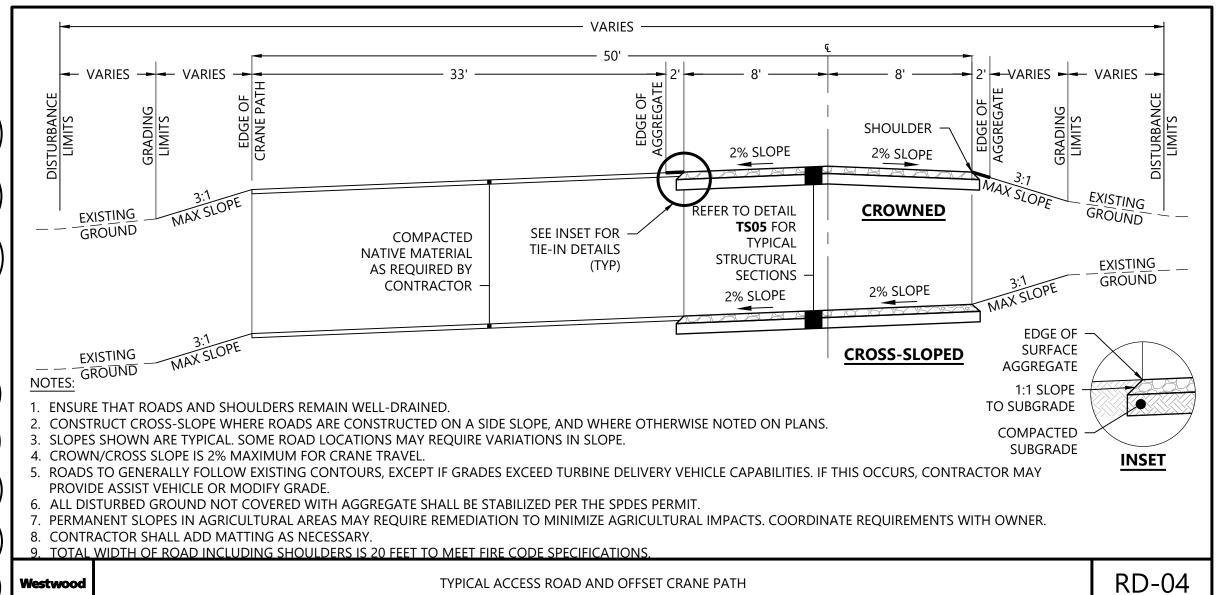
HOFFMAN FALLS WIND PROJECT - 100MWAC
HOFFMAN FALLS WIND LLC
3604 CODY RD., FENNER, NY 13035
ILLUMINATION PLAN
COLLECTOR SUBSTATION

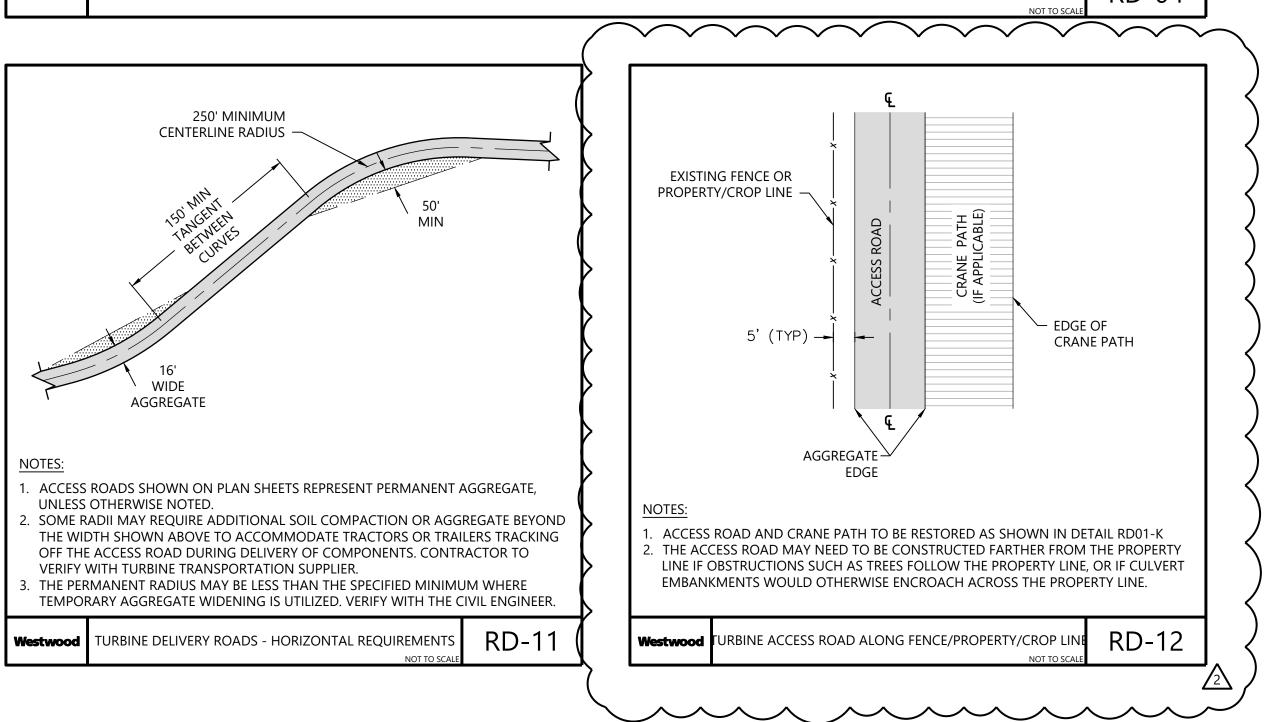
PROJ. NO.:	HF	MF
DWG. NO:	C-6	312
sh: 1		REV:
SCALE:	N.	/A











# Westwood

Westwood Surveying and Engineering, P.C.

Surveying & Engineering

Phone (214) 473-4640 2805 North Dallas Parkway, Suite #150 Toll Free (888) 937-5150 Plano, TX 75093 ww-pc.com

EOR: Alejandro Alvarado, PE

# Hoffman Falls Wind LLC

90 State Street Albany, NY 12207

RE	VISIONS:				
#	DATE	COMMENT	BY	СНК	ΑP
0	01/26/2024	ISSUE FOR PERMIT	HR	HR	Α
2	05/23/2024	NOIA Response	HR	HR	Α

# Hoffman Falls Wind Project

Madison County, New York

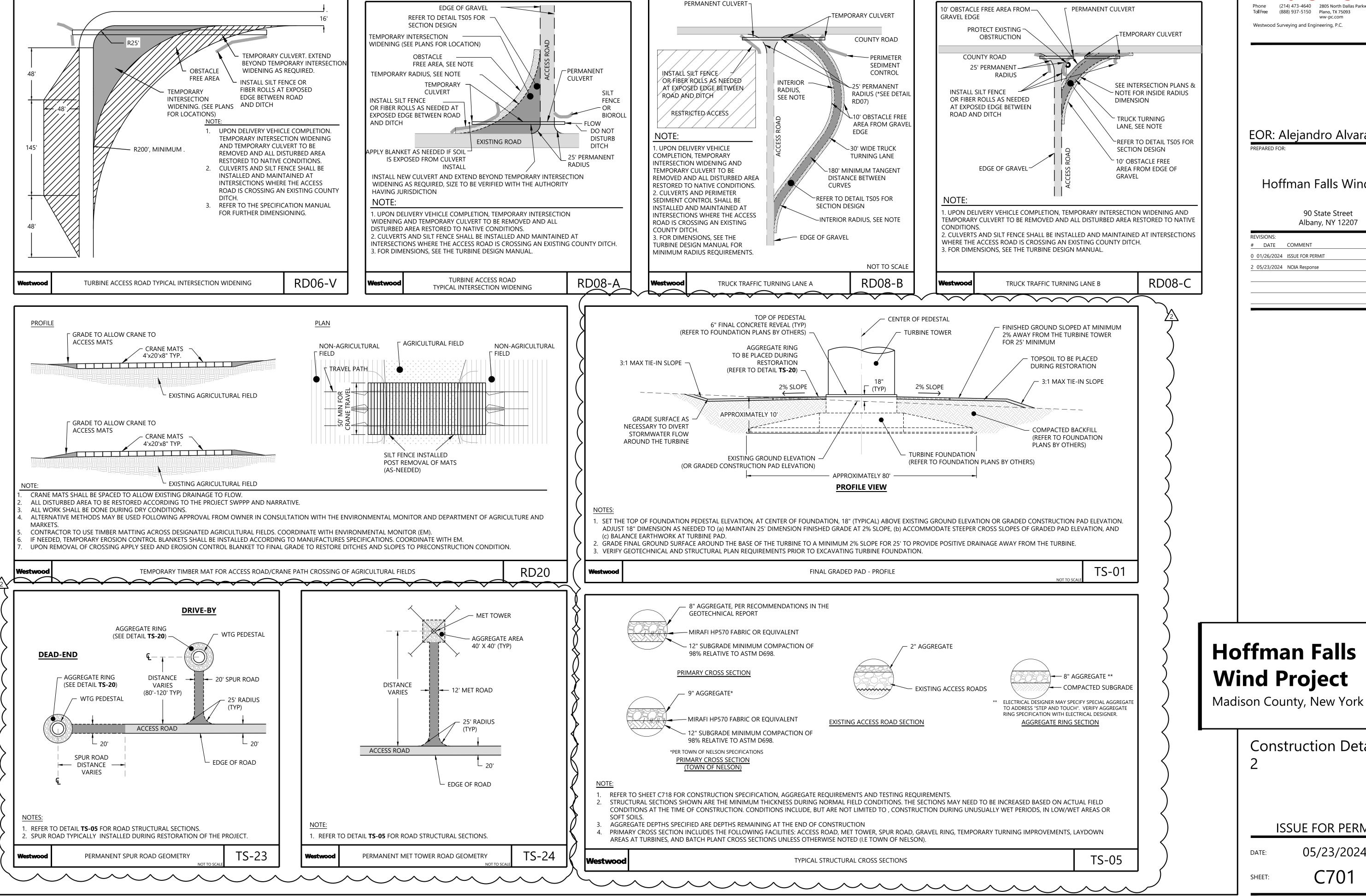
Construction Details - 1

ISSUE FOR PERMIT

DATE: 05/23/2024

C700

RE



Westwood

**Surveying & Engineering** 

Phone (214) 473-4640 2805 North Dallas Parkway, Suite #150 (888) 937-5150 Plano, TX 75093

EOR: Alejandro Alvarado, PE

### Hoffman Falls Wind LLC

90 State Street Albany, NY 12207

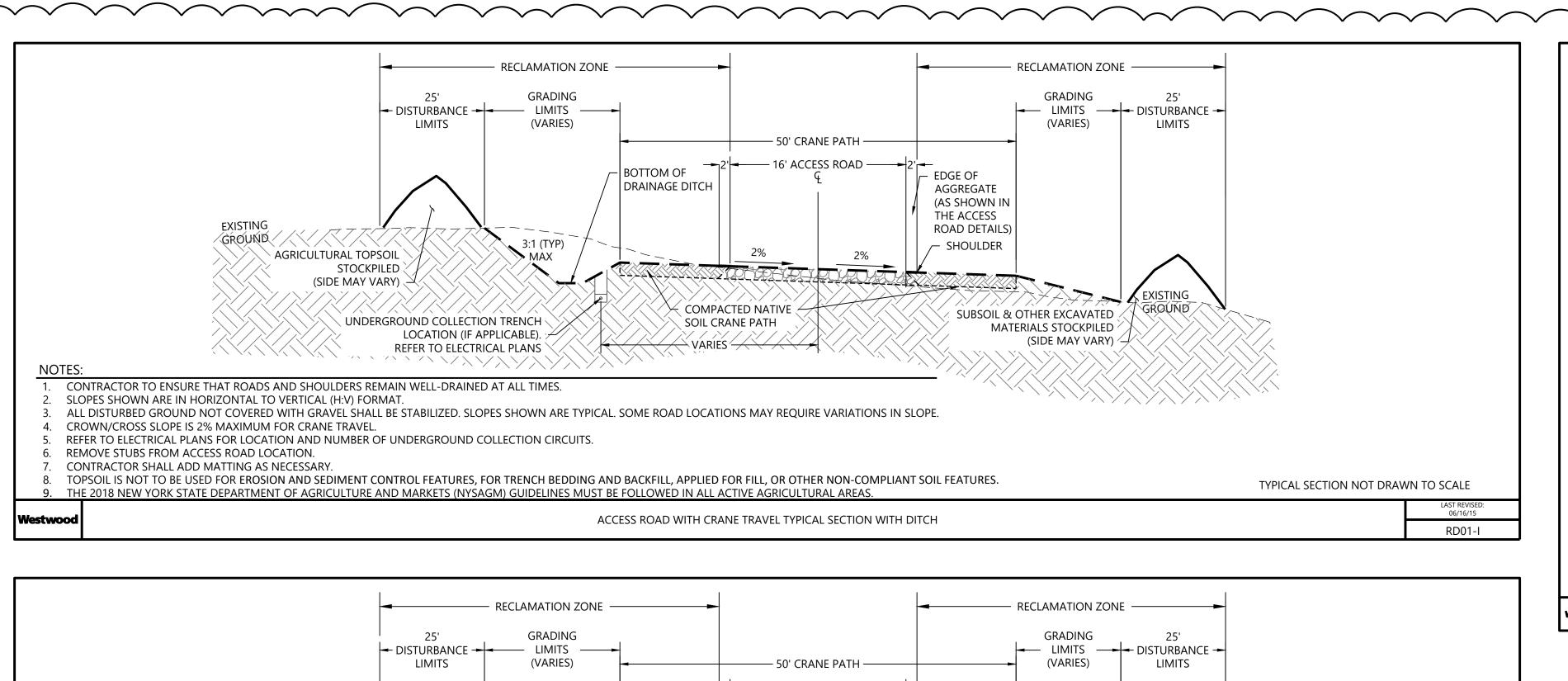
RE	VISIONS:				
#	DATE	COMMENT	ВҮ	СНК	ΑF
0	01/26/2024	ISSUE FOR PERMIT	HR	HR	Α
2	05/23/2024	NOIA Response	HR	HR	Α

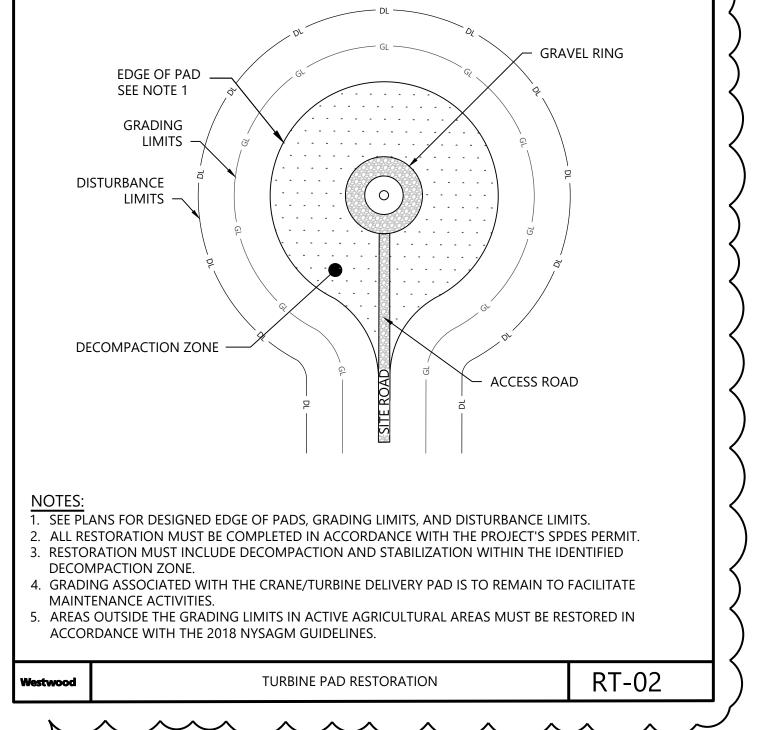
# **Hoffman Falls Wind Project**

Construction Details -

ISSUE FOR PERMIT

05/23/2024





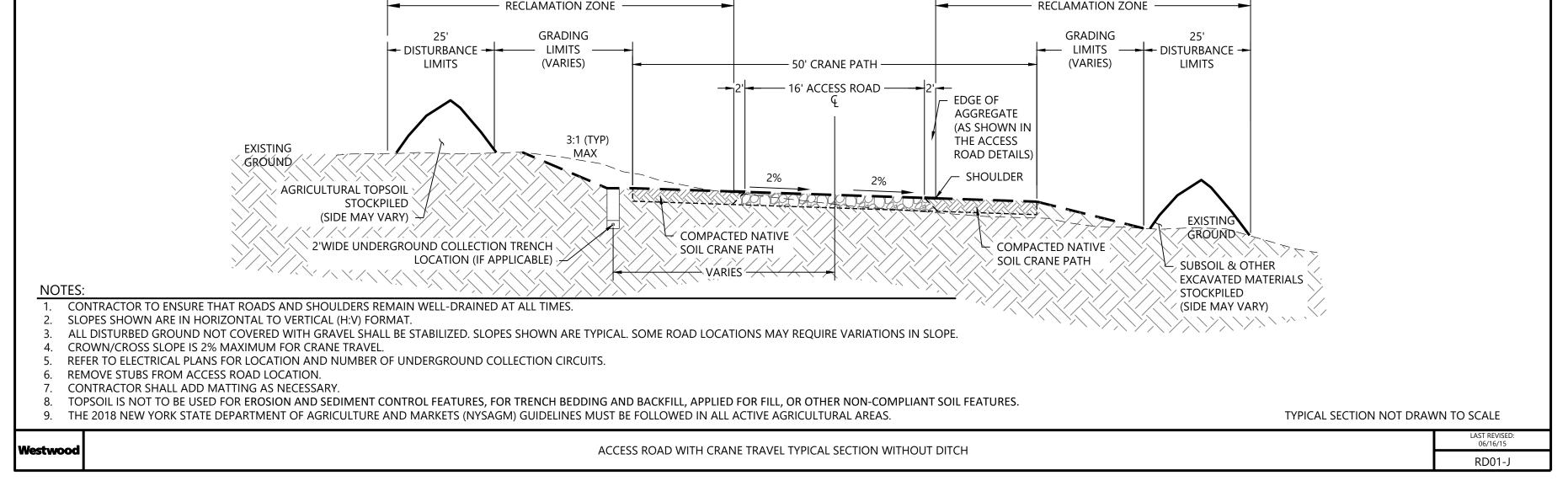
# Westwood Surveying & Engineering Phone (214) 473-4640 2805 North Dallas Parkway, Suite #150 Plano, TX 75093 ww-pc.com Westwood Surveying and Engineering, P.C.

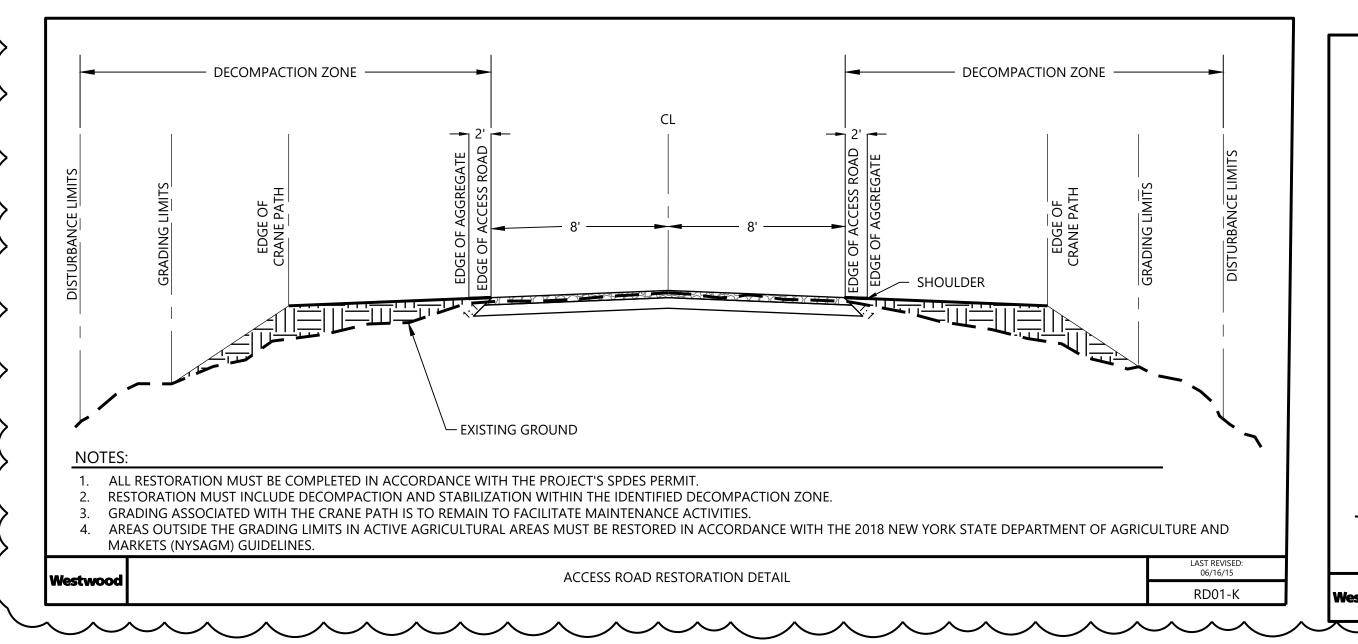
EOR: Alejandro Alvarado, PE

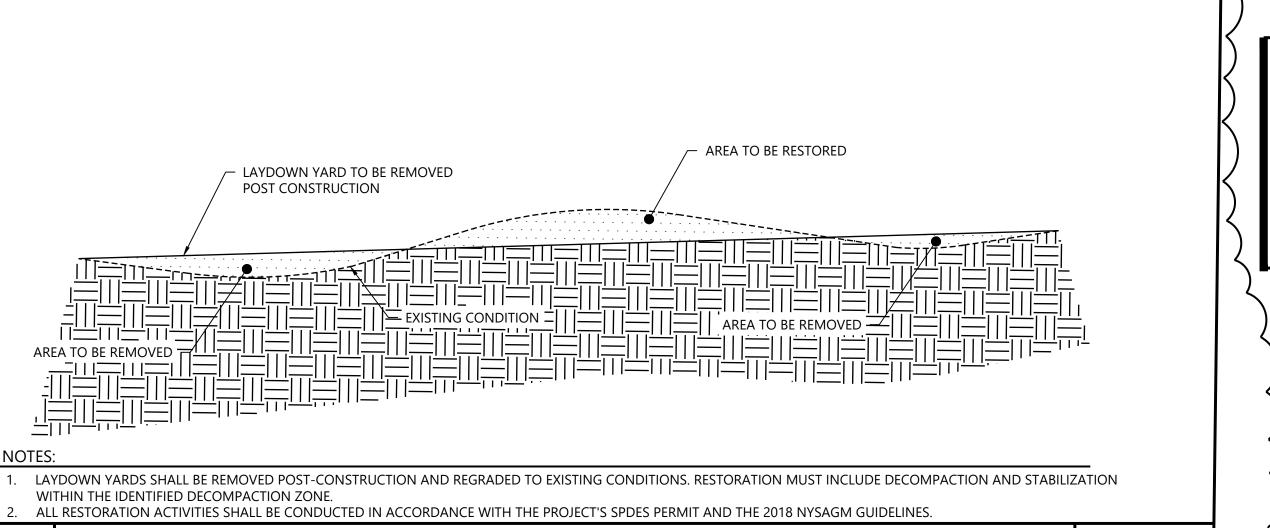
# Hoffman Falls Wind LLC

90 State Street Albany, NY 12207

CLIV	
СНК	AP
HR	ΑL
HR	ΑL
	HR







LAYDOWN YARD RESTORATION

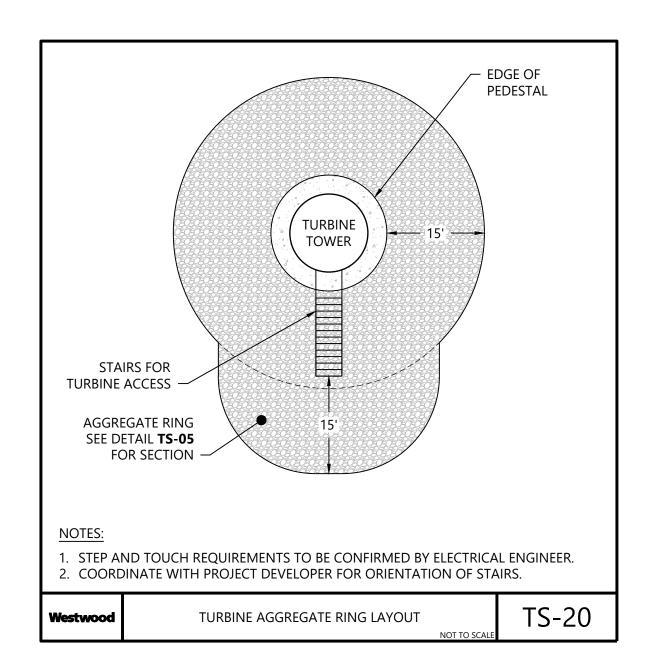
# Hoffman Falls Wind Project

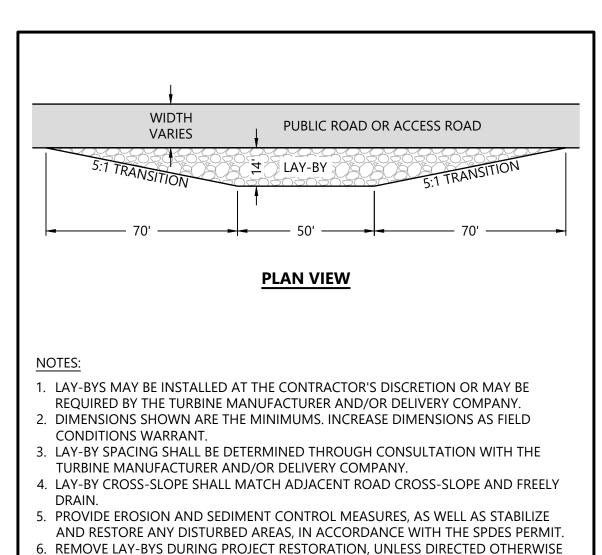
Madison County, New York

Construction Details - 3

**ISSUE FOR PERMIT** 

DATE: 05/23/2024

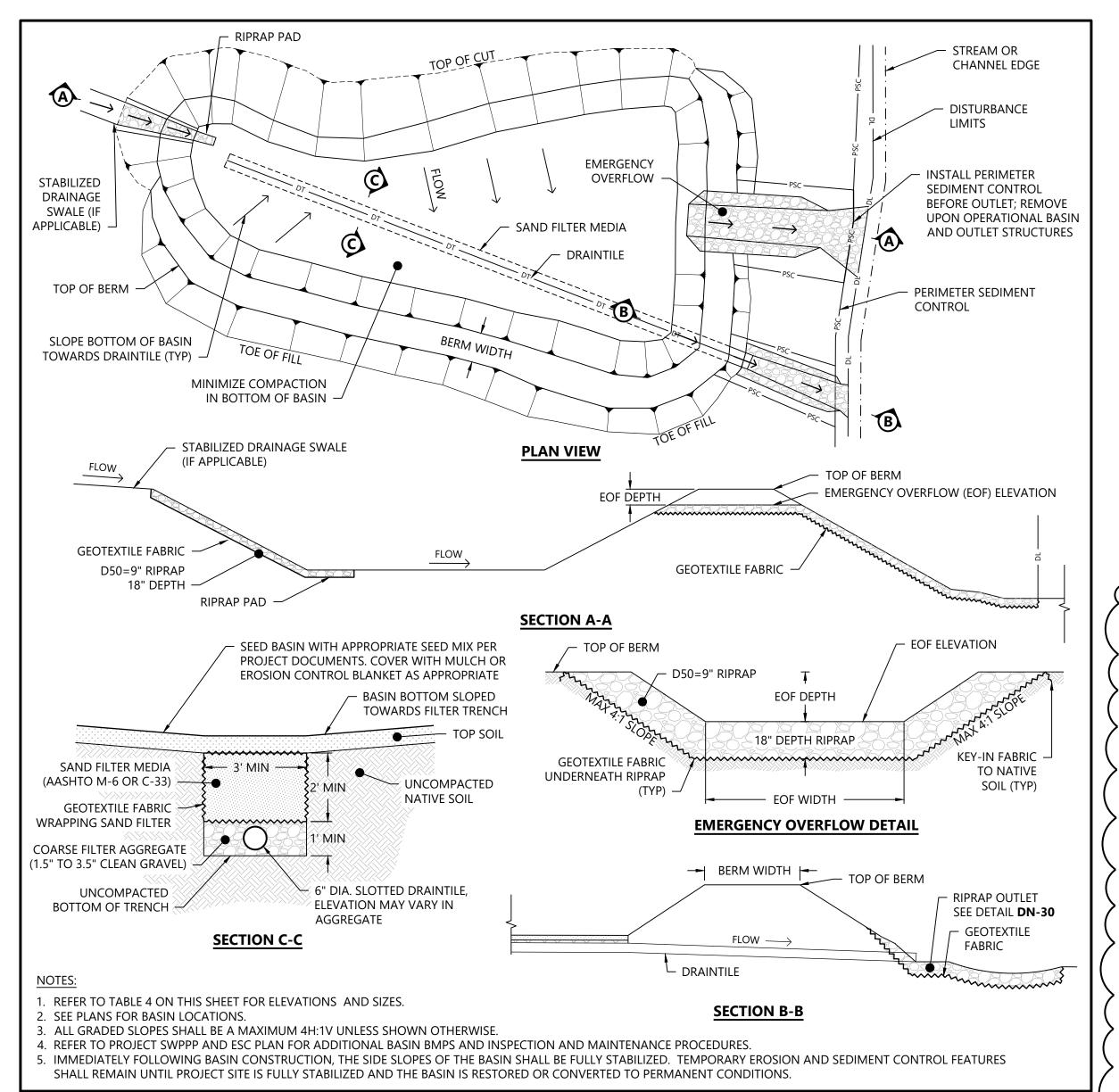




LAY-BY

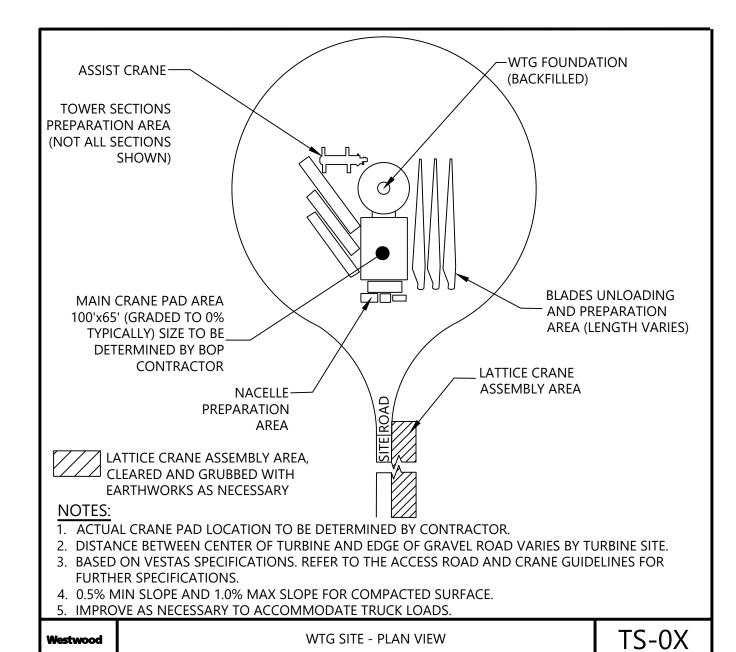
RD-30

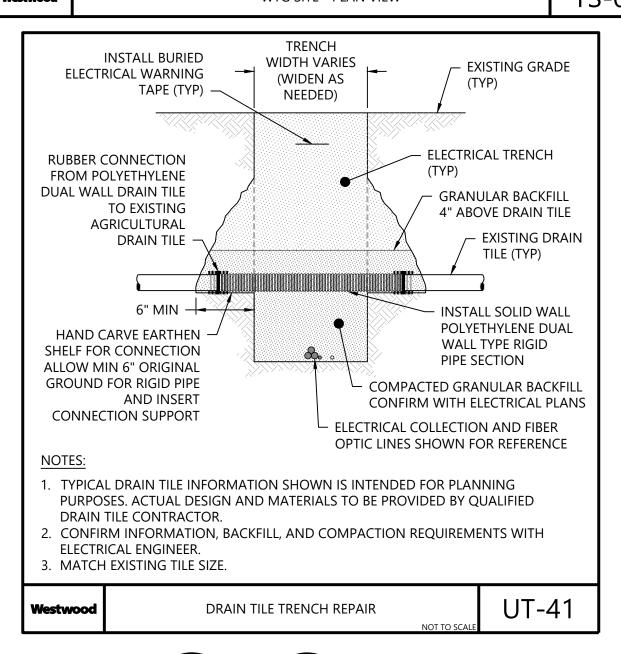
DN-42



STORMWATER FILTRATION BASIN

BY THE OWNER.





TENSION BAND (TYP.)

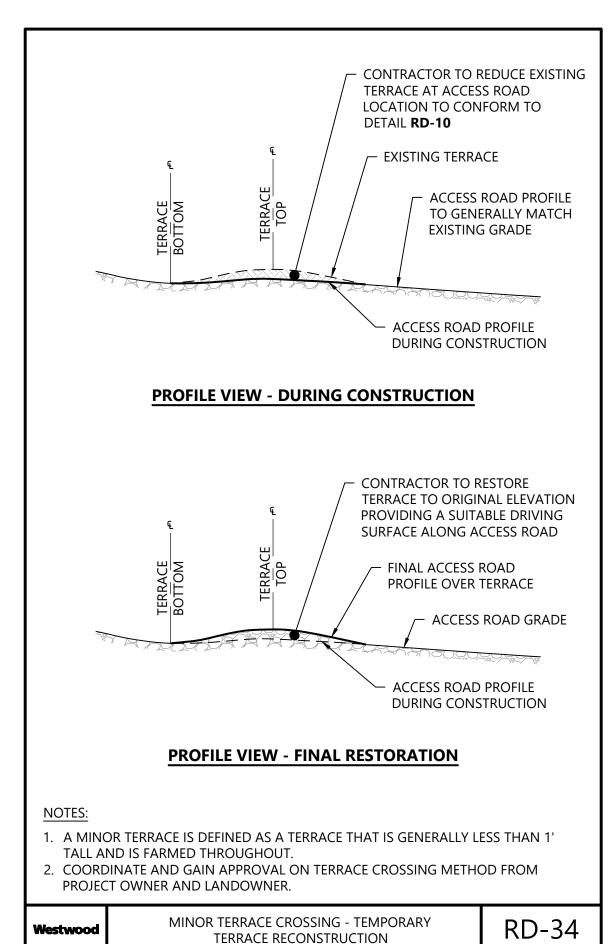
LOCKING CAPABILITY FROM

TO BE INSTALLED AT POI UNLESS OTHERWISE DIRECTED BY OWNER

THE MATERIAL FOR THE POI FENCE IS TO BE BLACK VINYL COATED.

EITHER SIDE OF GATE

4" GATE¬



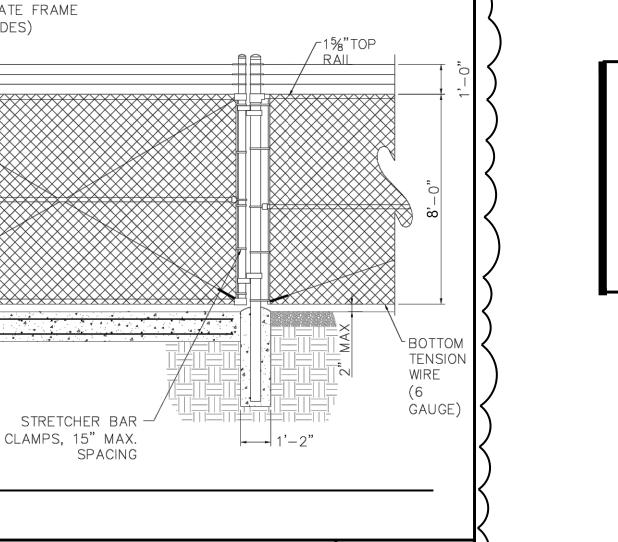


EOR: Alejandro Alvarado, PE

### Hoffman Falls Wind LLC

90 State Street Albany, NY 12207

REVISIONS:					
#	DATE	COMMENT	BY	СНК	APR
0	01/26/2024	ISSUE FOR PERMIT	HR	HR	AL
2	05/23/2024	NOIA Response	HR	HR	AL
_					



FN06

(4 SIDES)

✓ 3 STRAND BARBED WIRE

POI SECURITY GATE

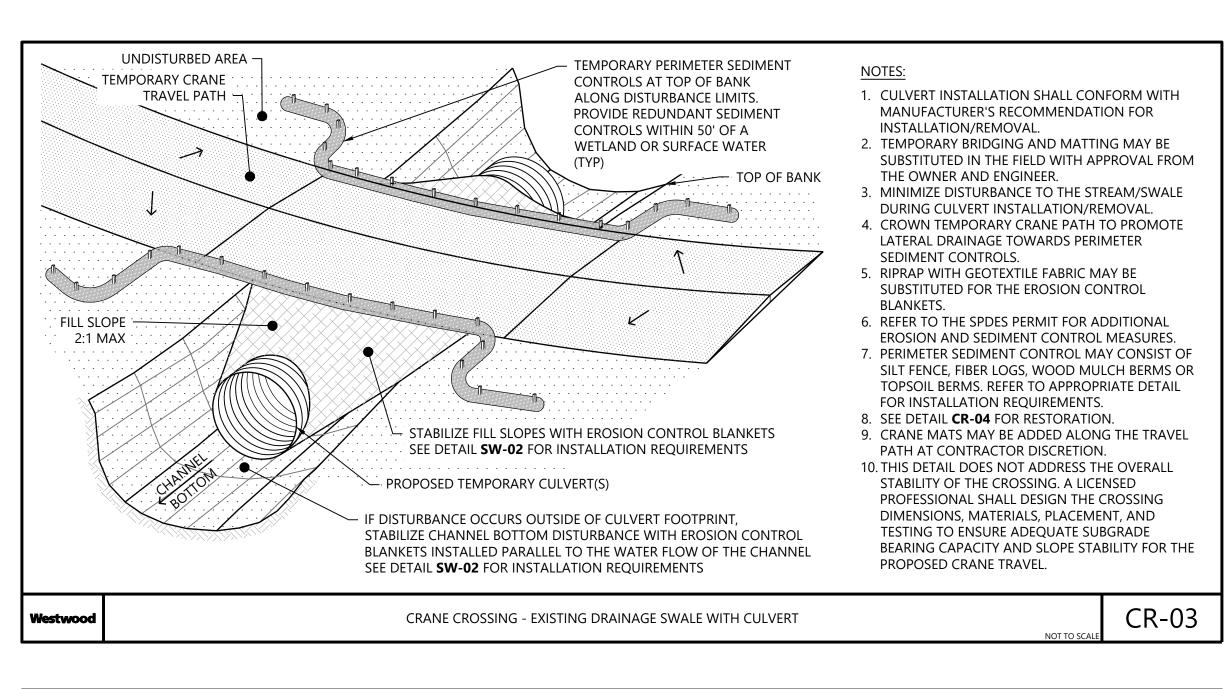
# Hoffman Falls Wind Project

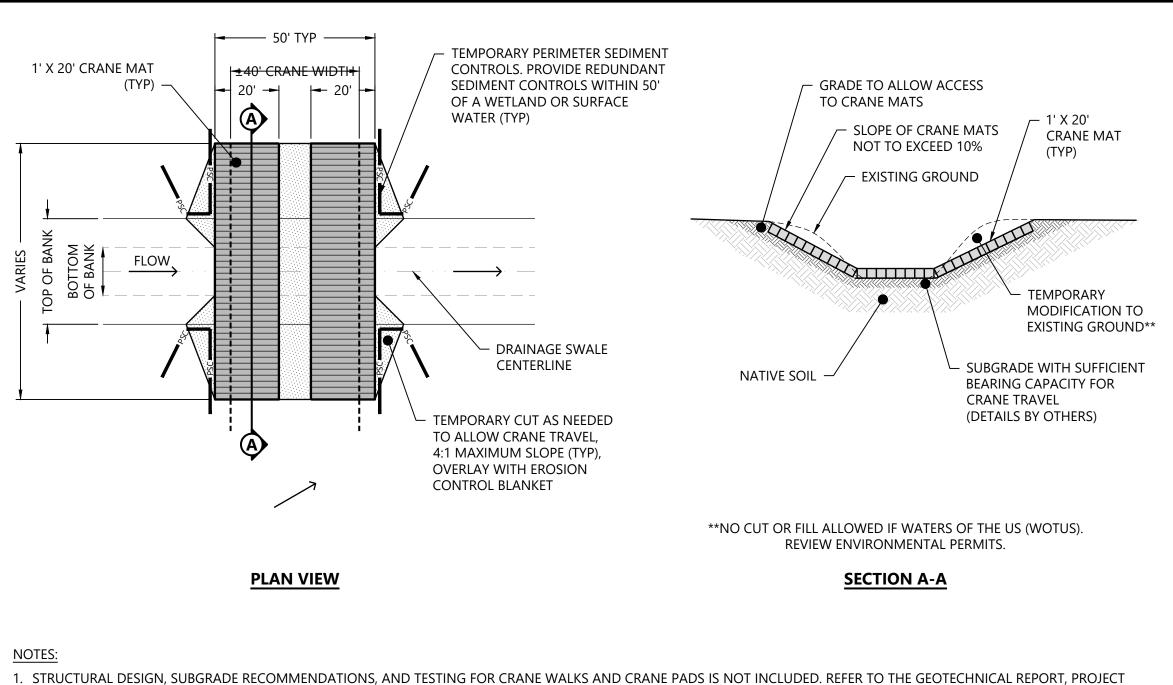
Madison County, New York

Construction Details - 4

**ISSUE FOR PERMIT** 

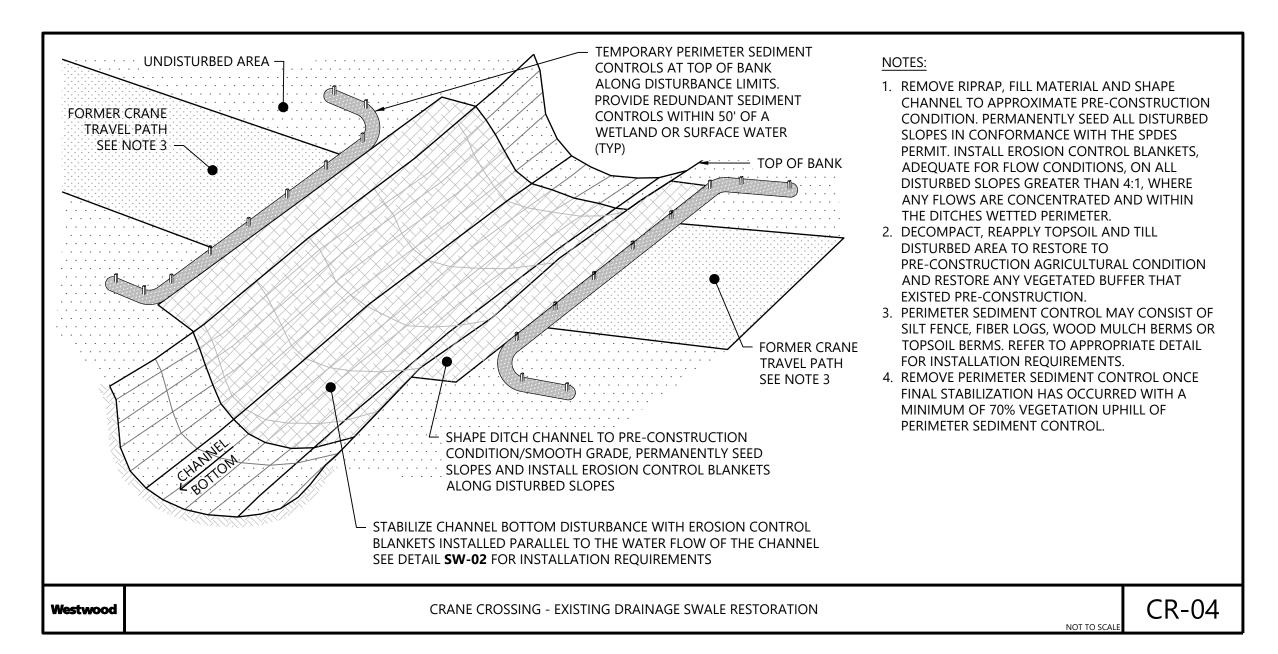
DATE: 05/23/2024

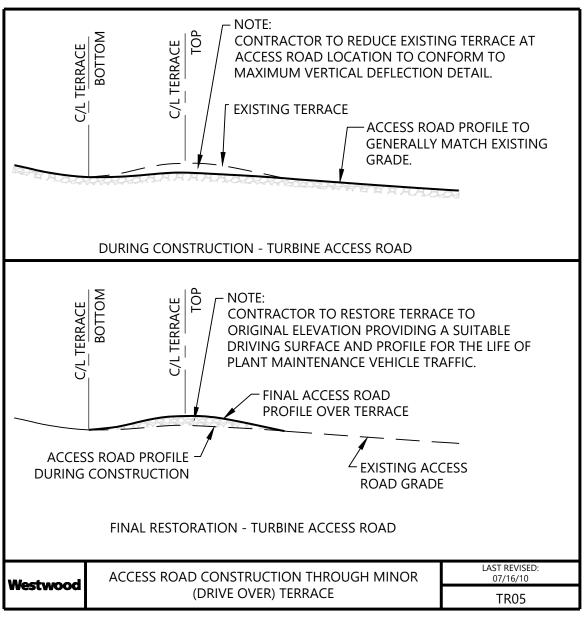


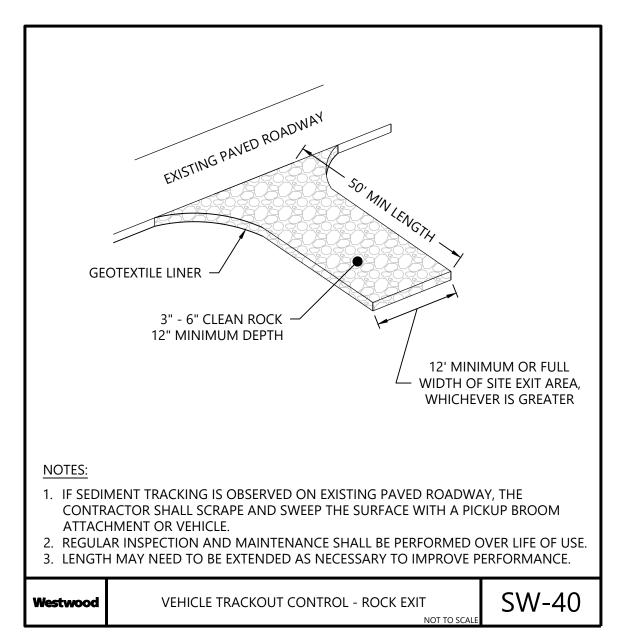


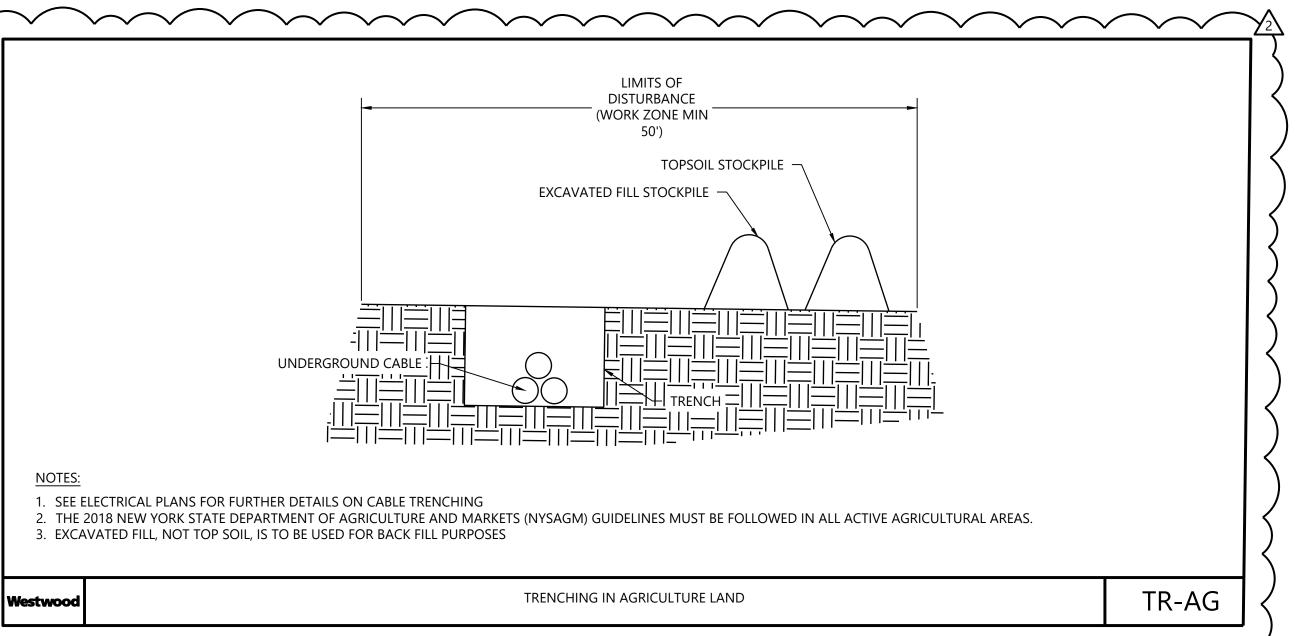
- . STRUCTURAL DESIGN, SUBGRADE RECOMMENDATIONS, AND TESTING FOR CRANE WALKS AND CRANE PADS IS NOT INCLUDED. REFER TO THE GEOTECHNICAL REPORT, PROJECT
- SPECIFIC CRANE WALK/PAD STRUCTURAL DESIGN (IF AVAILABLE), GEOTECHNICAL ENGINEER, AND/OR CONTRACTOR FOR SPECIFIC INFORMATION. 2. SUBGRADE IMPROVEMENT AND COMPACTION MAY BE REQUIRED TO ACHIEVE SUFFICIENT BEARING CAPACITIES AS ARE NECESSARY FOR CRANE TRAVEL.
- 3. THE CRANE SHALL CROSS THE DRAINAGE SWALE AS CLOSE TO PERPENDICULAR AS POSSIBLE
- 4. CHANNEL SLOPES MAY NEED MODIFICATION TEMPORARILY DURING CONSTRUCTION TO ALLOW FOR CRANE CROSSING. ANY MODIFICATIONS SHALL BE RESTORED TO ORIGINAL
- CONDITIONS UPON SITE RESTORATION. SEE DETAIL CR-04 FOR RESTORATION. 5. REVIEW ALL ENVIRONMENTAL PERMITS PRIOR TO CROSSING DRAINAGE SWALE TO ENSURE CONFORMANCE WITH PERMIT REQUIREMENTS.
- 6. PROVIDE EROSION AND SEDIMENT CONTROL MEASURES SPECIFIED IN THE SPDES PERMIT. STABILIZE AND RESTORE ANY DISTURBED AREA IN ACCORDANCE WITH THE SPDES PERMIT
- AND ENVIRONMENTAL PERMIT REQUIREMENTS POST CRANE CROSSING.
- 7. TOTAL CRANE MATTING WIDTH VARIES BY CONTRACTOR AND EQUIPMENT, TYPICAL WIDTHS ARE PROVIDED.
- 8. MATS ARE TO BE REMOVED IMMEDIATELY AFTER CROSSING ACTIVITY IS COMPLETE.
- 9. IF RUTTING OR INDENTATIONS OCCURS DURING CRANE CROSSING, RESTORE TO ORIGINAL GRADE FOLLOWING REMOVAL OF CRANE MATS.

CR-02 CRANE CROSSING - EXISTING DRAINAGE SWALE WITH MATS









# Westwood

# **Surveying & Engineering**

Phone (214) 473-4640 2805 North Dallas Parkway, Suite #150 Toll Free (888) 937-5150 Plane TV 75003

Westwood Surveying and Engineering, P.C.

EOR: Alejandro Alvarado, PE

### Hoffman Falls Wind LLC

#### 90 State Street Albany, NY 12207

RE	VISIONS:				
#	DATE	COMMENT	BY	CHK	APR
0	01/26/2024	ISSUE FOR PERMIT	HR	HR	AL
2	05/23/2024	NOIA Response	HR	HR	AL

# **Hoffman Falls Wind Project**

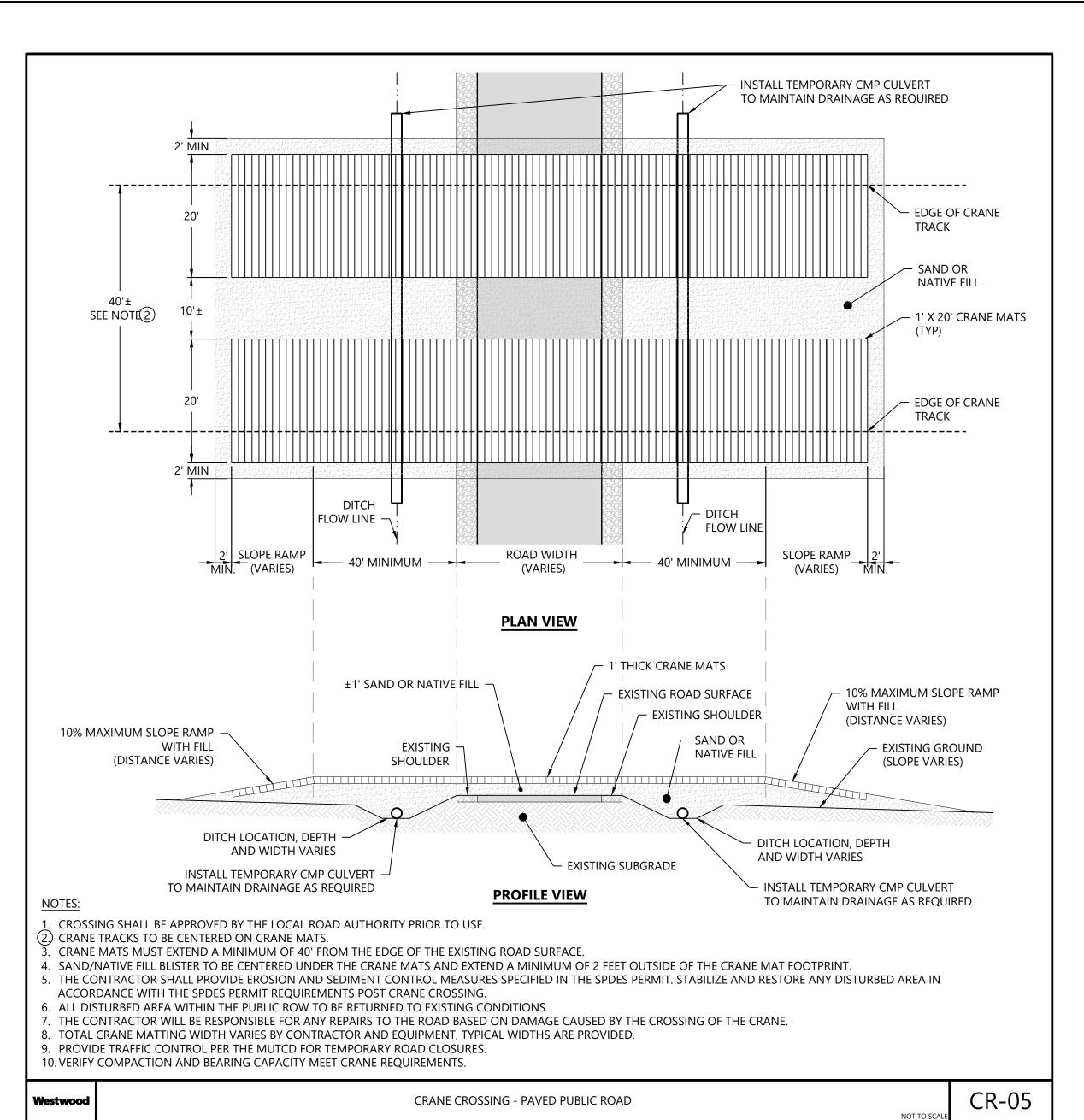
Madison County, New York

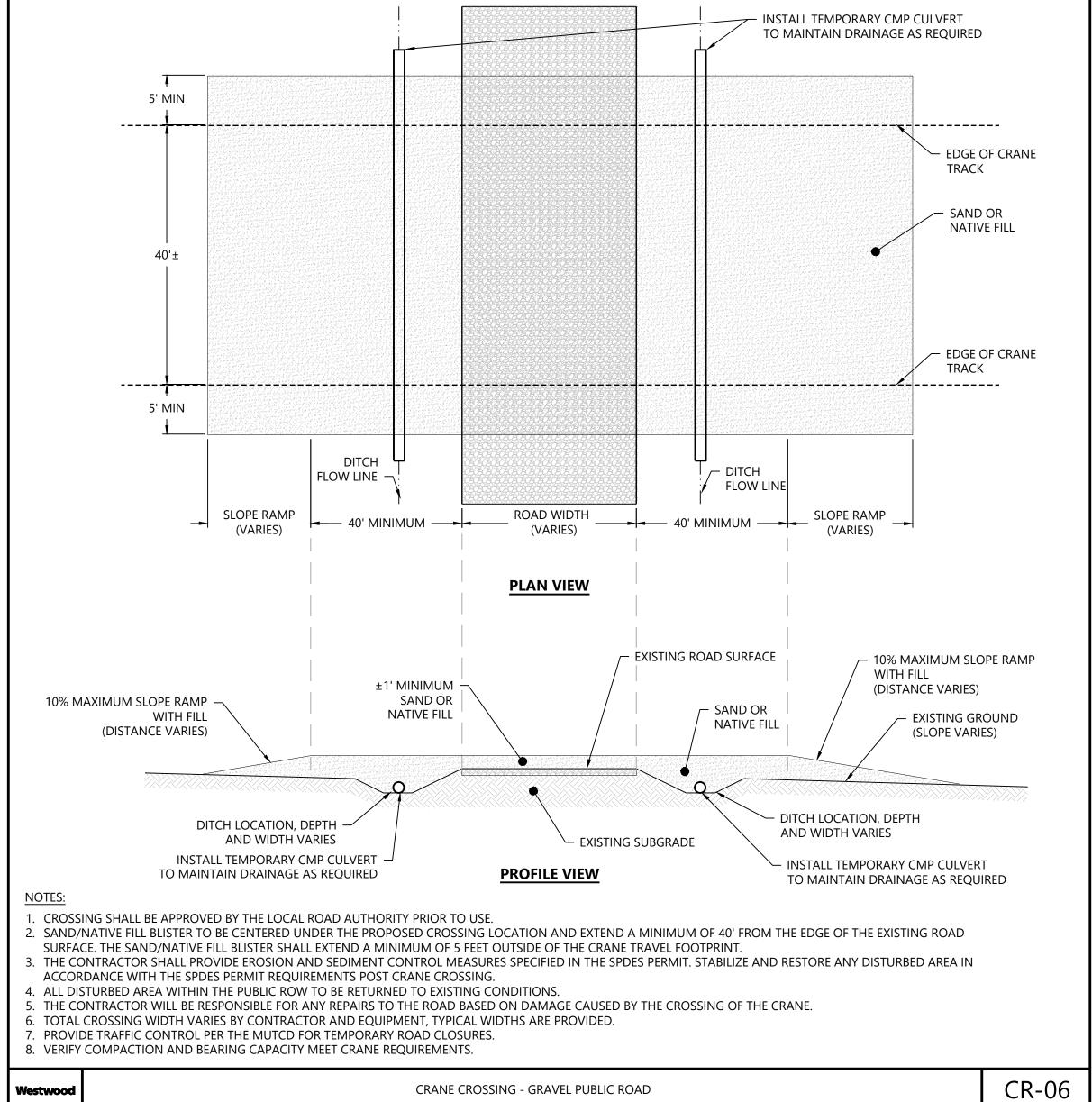
Construction Details -

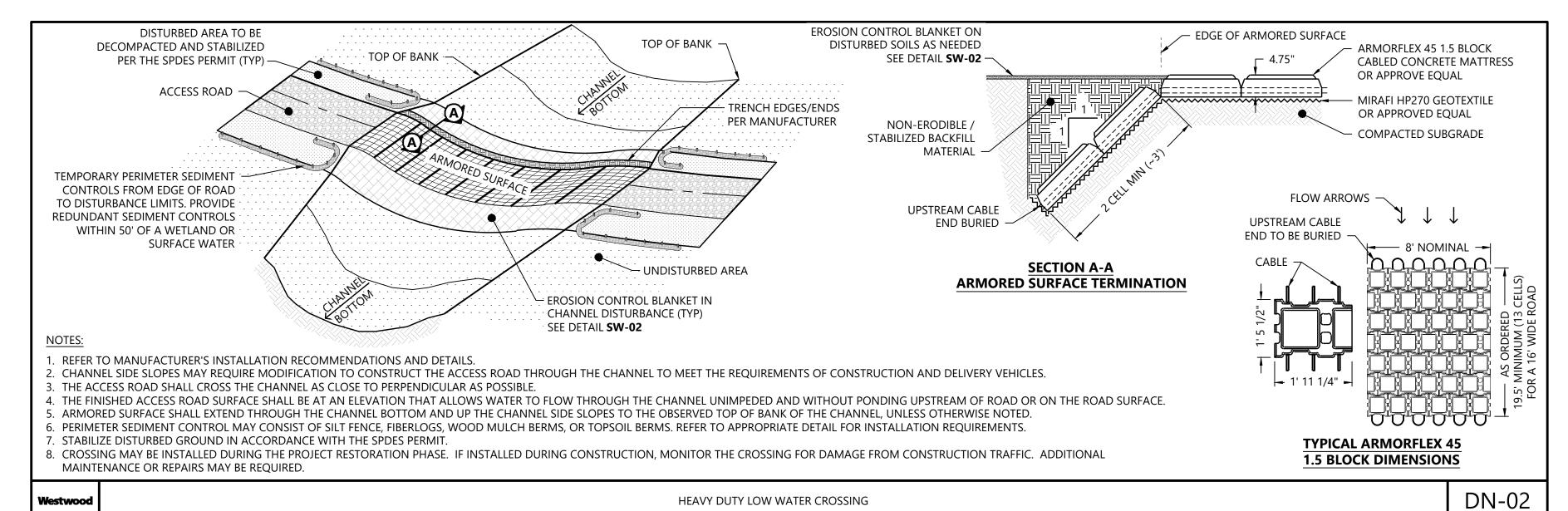
**ISSUE FOR PERMIT** 

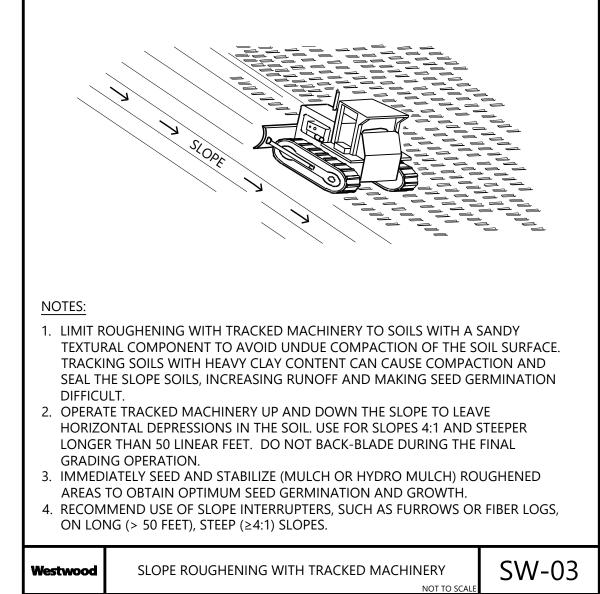
05/23/2024 DATE:

SHEET









# Westwood **Surveying & Engineering**

(952) 937-5150 12701 Whitewater Drive, Suite #300 (952) 937-5822 Minnetonka, MN 55343 (888) 937-5150 ww-pc.com Westwood Surveying and Engineering, P.C.

EOR: Alejandro Alvarado, PE

Hoffman Falls Wind LLC

90 State Street Albany, NY 12207

**REVISIONS:** # DATE COMMENT BY CHK APR 0 01/26/2024 ISSUE FOR PERMIT HR HR AL

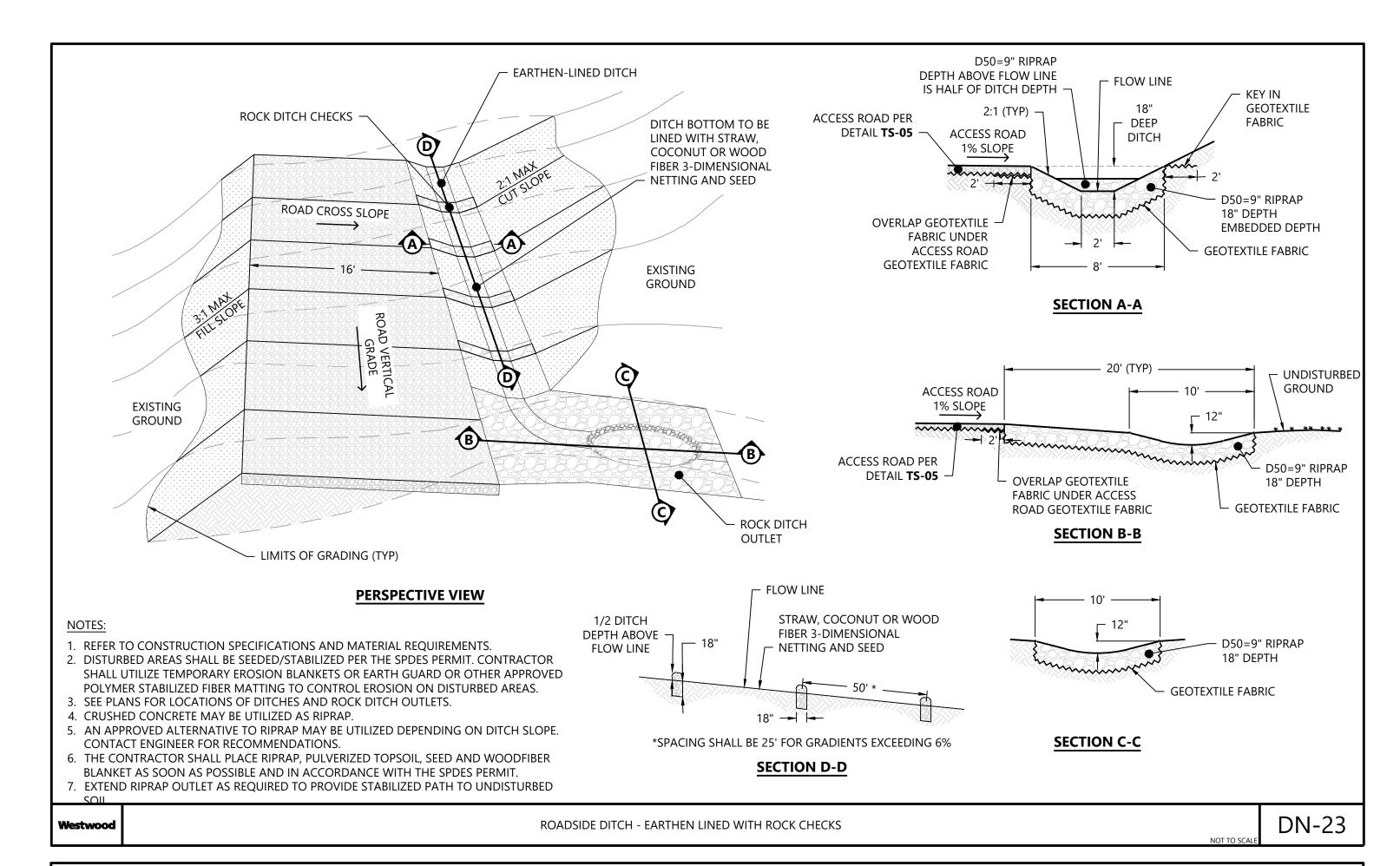
# **Hoffman Falls Wind Project**

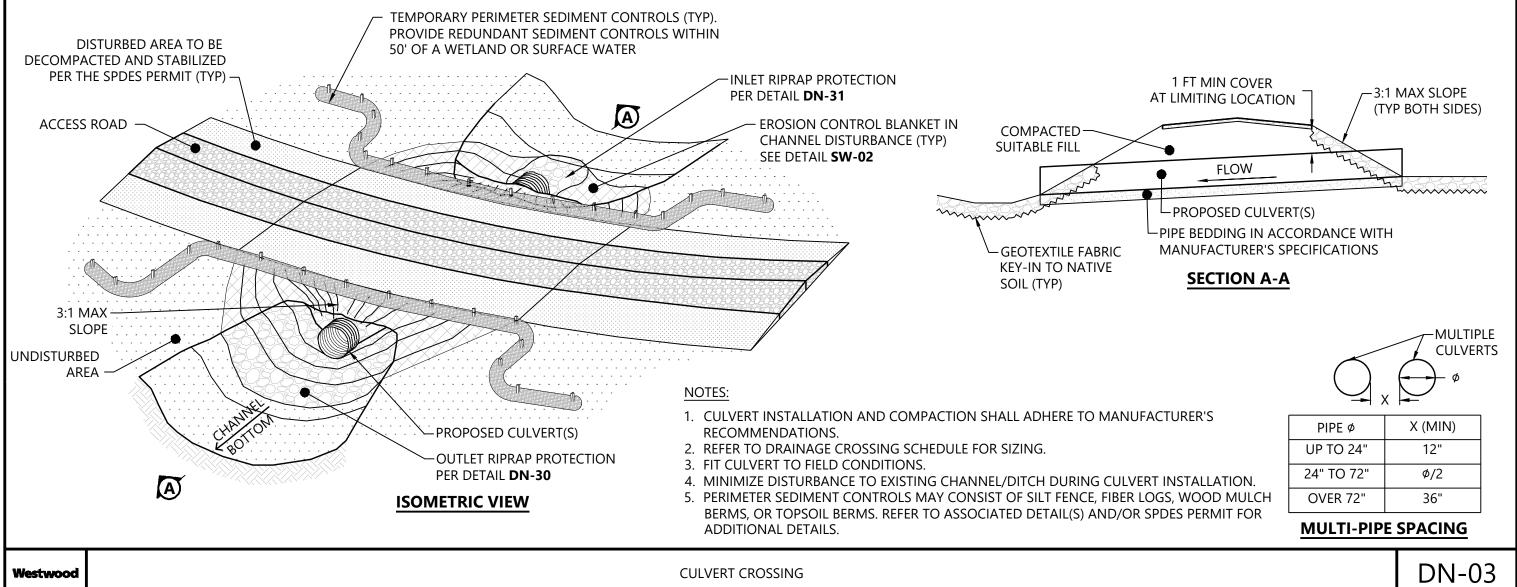
Madison County, New York

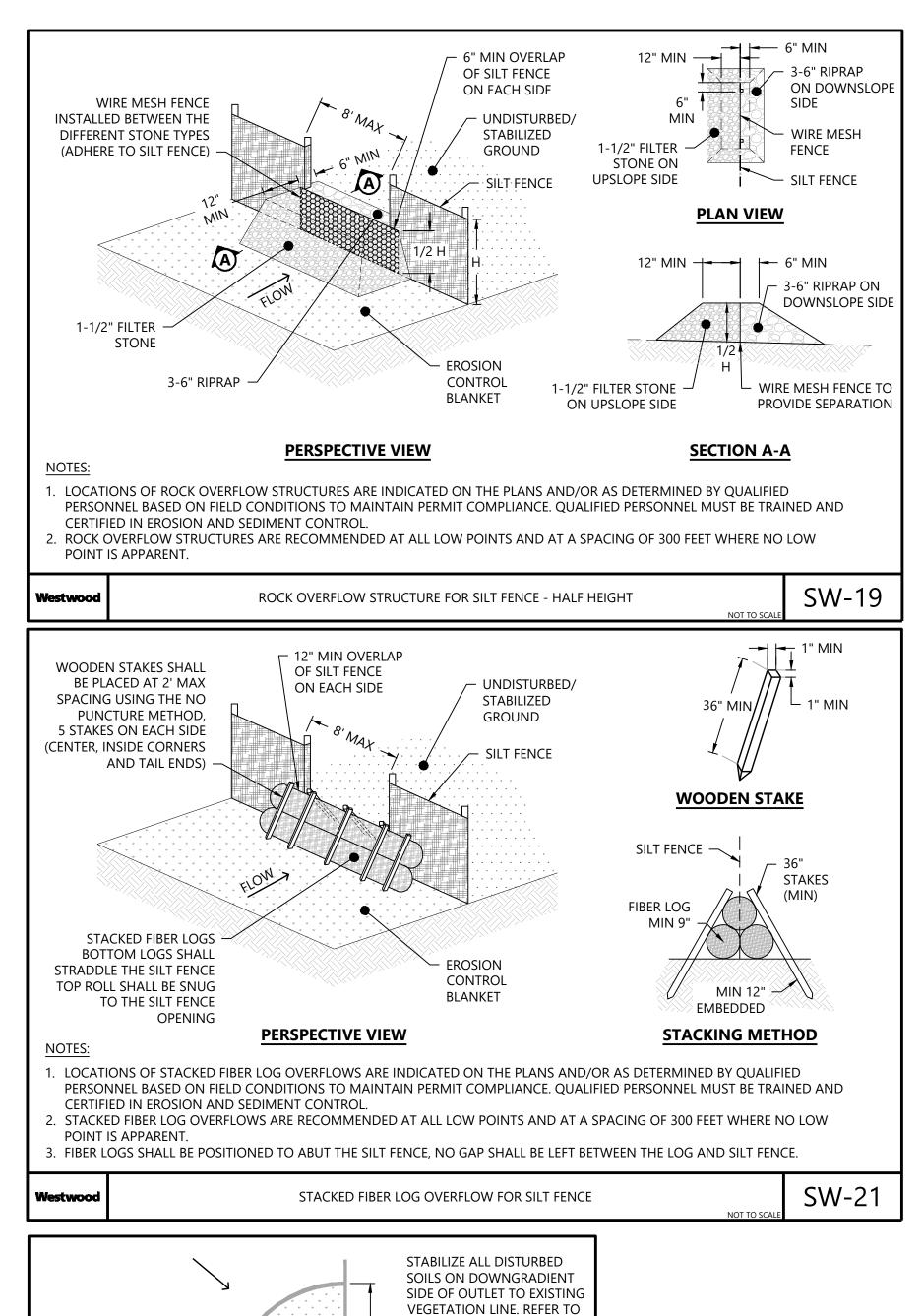
Construction Details -

**ISSUE FOR PERMIT** 

01/26/2024 DATE:







DETAIL **SW-02** FOR DRAINAGE

─ CONVEYANCE STABILIZATION

- PERIMETER OVERFLOW ROCK STRUCTURE

(SEE DETAIL **SW-19/20**)

SW-22

STACKED FIBER LOG

(SEE DETAIL SW-21)

SILT FENCE OR EARTHEN BERM

**PLAN VIEW** 

PERIMETER OVERFLOW BUFFER

FLOW

FIBER LOGS -

(SEE DETAIL **SW-13** 

FOR ADDITIONAL

INFORMATION)

APPLY SEED AND EROSION

AREA BETWEEN FIBER LOGS

AND DRAINAGE OUTLET

CONTROL BLANKET TO

# **Hoffman Falls Wind Project**

Westwood

**Surveying & Engineering** 

(952) 937-5822 Minnetonka, MN 55343

EOR: Alejandro Alvarado, PE

Hoffman Falls Wind LLC

90 State Street

Albany, NY 12207

BY CHK APR

HR HR AL

**REVISIONS:** 

# DATE COMMENT

0 01/26/2024 ISSUE FOR PERMIT

(888) 937-5150 ww-pc.com

Westwood Surveying and Engineering, P.C.

(952) 937-5150 12701 Whitewater Drive, Suite #300

Construction Details -

**ISSUE FOR PERMIT** 

01/26/2024 DATE:

SHEET

C706

Madison County, New York

BROAD-BASED DIP - Sediment Removal Efficiency: VERY LOW. This device by itself is not an ABACT for special protection watersheds, but like a waterbar can be used to make an ABACT BMP work more effectively. Broad-based dips may be used to direct runoff from active access roads to well-vegetated areas or sediment removal BMPs (e.g. sediment traps or sediment basins). Broadbased dips, unlike waterbars, are easily traversed by most construction equipment and typically require less maintenance to ensure their integrity. Due to the nature of broad-based dips, they should not be constructed on roads with grades exceeding 10%. Where access roads exceed 10% gradients, insloping or other deflection devices should be used to control runoff.



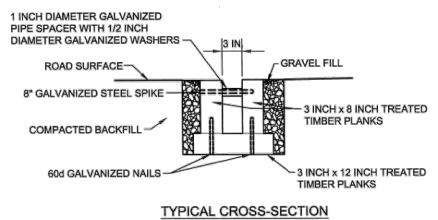
Discharges should be to the downslope side of access roads with a maximum gradient of 3% in the dip. For access roads with grades up to 5%, Standard Construction Detail # 3-6 should be used. Roadways with steeper grades should use Standard Construction Detail # 3-7.

TABLE 3.2 – Maximum Spacing of Broad-based Dips, Open-top Culverts and Deflectors

Road Grade (Percent)	Spacing Between Dips, Culverts, or Deflectors (feet)
<2	300
3	235
4	200
5	180
6	165
7	155
8	150
9	145
10	140

363-2134-008 / March 31, 2012 / Page 23

#### STANDARD CONSTRUCTION DETAIL #3-8 Open-top Culvert



EDGE OF ROAD ~ 6 INCHES BETWEEN END OF 18" INCH MAXIMUM DISTANCE BETWEEN SPACERS -SURFACE FLOW DOWNGRADE © OF ROAD 10 PERCENT MINIMUM ANGLE DOWNGRADE FOR DRAINAGE EDGE OF ROAD RIP RAP OUTFALL

TO AVOID

DOWNWASHING

TYPICAL PLAN VIEW

Culverts shall be inspected weekly and after runoff events.

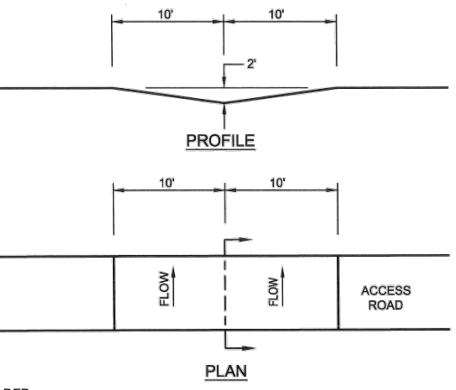
USDA Forest Service

Damaged or non-functioning culverts shall be repaired by the end of the workday.

Accumulated sediment shall be removed within 24 hours of inspection.

Maximum spacing of open-top culverts shall be as shown in Table 3.2.

#### STANDARD CONSTRUCTION DETAIL # 3-6 Broad-based Dip for Low Gradient (≤5%) Roadways



Maine DEP

Broad-based dips shall be constructed to the dimensions shown and at the locations shown on the plan drawings.

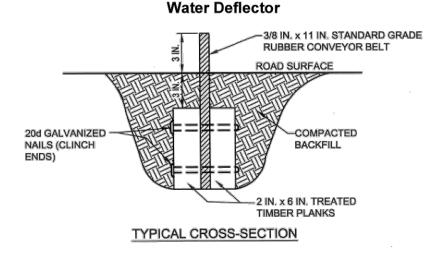
Dips shall be oriented so as to discharge to the low side of the roadway.

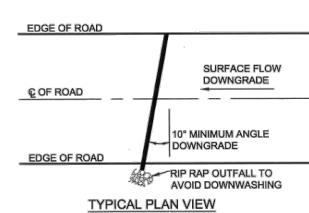
Dips shall be inspected daily. Damaged or non-functioning dips shall be repaired by the end of

Maximum spacing of broad-based dips shall be as shown in Table 3.2

363-2134-008 / March 31, 2012 / Page 24

### STANDARD CONSTRUCTION DETAIL #3-9





USDA Forest Service

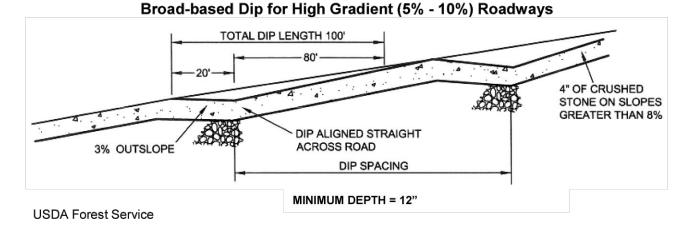
Deflector shall be inspected weekly and after each runoff event.

Accumulated sediment shall be removed from deflector within 24 hours of inspection.

Belt shall be replaced when worn and no longer effective.

Maximum spacing of deflectors shall be as shown in Table 3.2.

## STANDARD CONSTRUCTION DETAIL # 3-7



Broad-based dips shall be constructed to the dimensions shown and at the locations shown on the plan drawings.

Dips shall be oriented so as to discharge to the low side of the roadway.

Dips shall be inspected daily. Damaged or non-functioning dips shall be repaired by the end of

Maximum spacing of broad-based dips shall be as shown in Table 3.2.

363-2134-008 / March 31, 2012 / Page 25

# clearing Silt fence

**INCORRECT** Silt fence installed parallel to slope (perpendicular to contour) in one, long run

Appendix A-28

Purpose:

CORRECT Silt fence installed in shorter runs with "J-Hooks" to avoid concentration of flows at one location by trapping runoff at multiple points along a slope.

The proper operation of silt fence depends on the ability to temporarily pond runoff behind the fence, allowing time for sediments to settle. Silt fence is **not** a filter. If water flows around the end(s), the silt fence fails to function. It must be placed where it will store water - often times along a slope a 'smile' or J-Hook shape is required to create a storage area. Long runs should be avoided, and broken up into smaller segments.

Maximum Space between silt fence rows or J-hooks 4:1 (25%) 5:1 or flatter (20%)

Start down-gradient ←20 ft. → silt fence line as close as possible to up-gradient J-Hook

NOTE: J-Hooks shall be used whenever the silt

fence line is installed at an

greater from parallel to the

angle of 30 degrees or

contours

Typical J-Hook Dimensions Minimum width of J-Hook recommended at 20 ft with a depth of 10 ft. Where space is limited (e.g., along narrow rights of way), narrower hooks can be used with a higher spacing frequency.

Figure A7.2 Installation of "J-Hooks" on slopes (Adapted from CNMI DEQ, 2009)

EOR: Alejandro Alvarado, PE

**Surveying & Engineering** 

(952) 937-5822 Minnetonka, MN 55343 (888) 937-5150 ww-pc.com

(952) 937-5150 12701 Whitewater Drive, Suite #300

Westwood

Westwood Surveying and Engineering, P.C.

Hoffman Falls Wind LLC

Albany, NY 12207

90 State Street

# DATE COMMENT BY CHK APR 0 01/26/2024 ISSUE FOR PERMIT HR HR AL

**Hoffman Falls Wind Project** 

Madison County, New York

Construction Details -

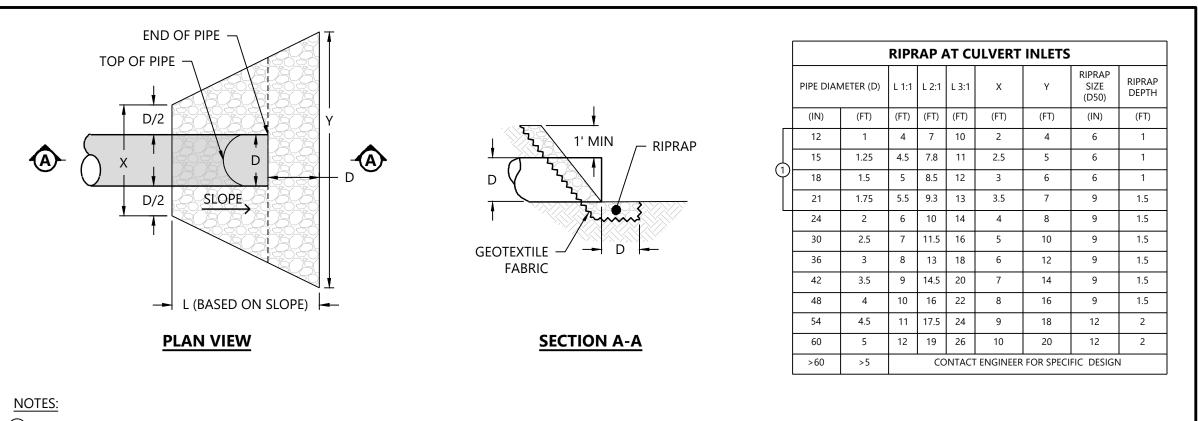
**ISSUE FOR PERMIT** 

DATE:

01/26/2024

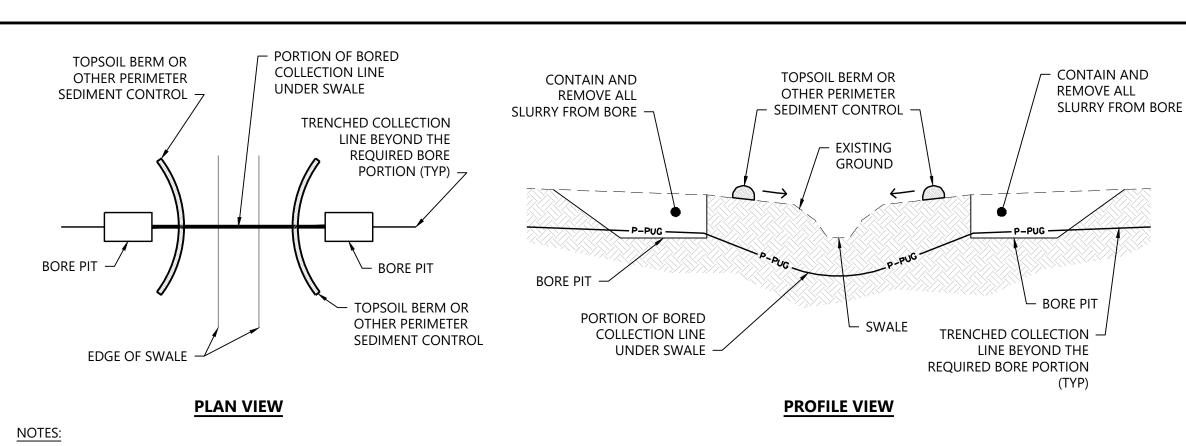
C707 SHEET:

363-2134-008 / March 31, 2012 / Page 27 363-2134-008 / March 31, 2012 / Page 29



- (1.) RIPRAP IS NOT REQUIRED AT CULVERTS 21" OR LESS, UNLESS SPECIFICALLY SHOWN ON THE PLANS.
- 2. RIPRAP SHALL BE INSTALLED AT ALL CULVERTS 24" THROUGH 60" PER THIS DETAIL, UNLESS APPROVED BY THE ENGINEER.
- 3. THE CONTRACTOR SHALL PLACE RIPRAP, PULVERIZED TOPSOIL, SEED AND WOODFIBER BLANKET IMMEDIATELY AFTER PIPE IS INSTALLED, EXTEND AREA TO MATCH UNDISTURBED SOIL
- 4. CONFIRM REQUIREMENTS IN PUBLIC RIGHT-OF-WAY WITH THE AUTHORITY HAVING JURISDICTION.
- 5. DIMENSION "D" EQUALS INSIDE DIAMETER OF PIPE.
- 6. RIPRAP SHALL EXTEND THE ENTIRE WIDTH BETWEEN MULTIPLE CULVERTS.
- 7. RIPRAP MATERIAL SHALL MEET THE REQUIREMENTS OF THE LATEST EDITION OF THE FHWA STANDARD SPECIFICATIONS FP-14 SECTION 705.02. CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH SECTION 251.

Westwood PERMANENT RIPRAP AT CULVERT INLETS DN-31

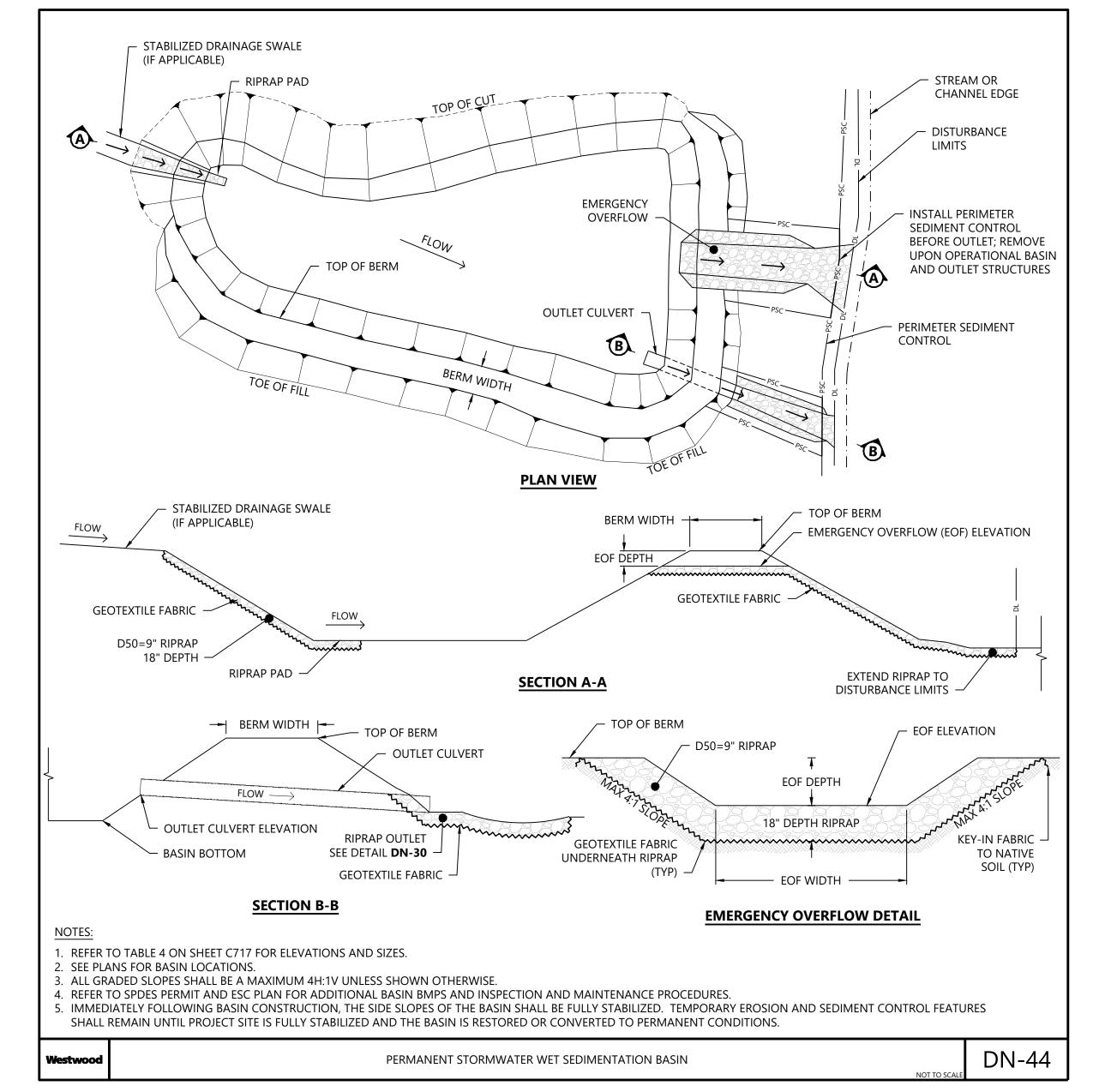


- 1. AVOID DISTURBANCE TO THE SWALE DURING CONSTRUCTION
- 2. REFER TO PROJECT SPCC PLAN FOR ADDITIONAL REQUIREMENTS
- 3. CONSTRUCT TOPSOIL BERM TO PROTECT EXISTING SWALE WHERE BORING WILL OCCUR FOR UNDERGROUND COLLECTION SYSTEM INSTALLATION.

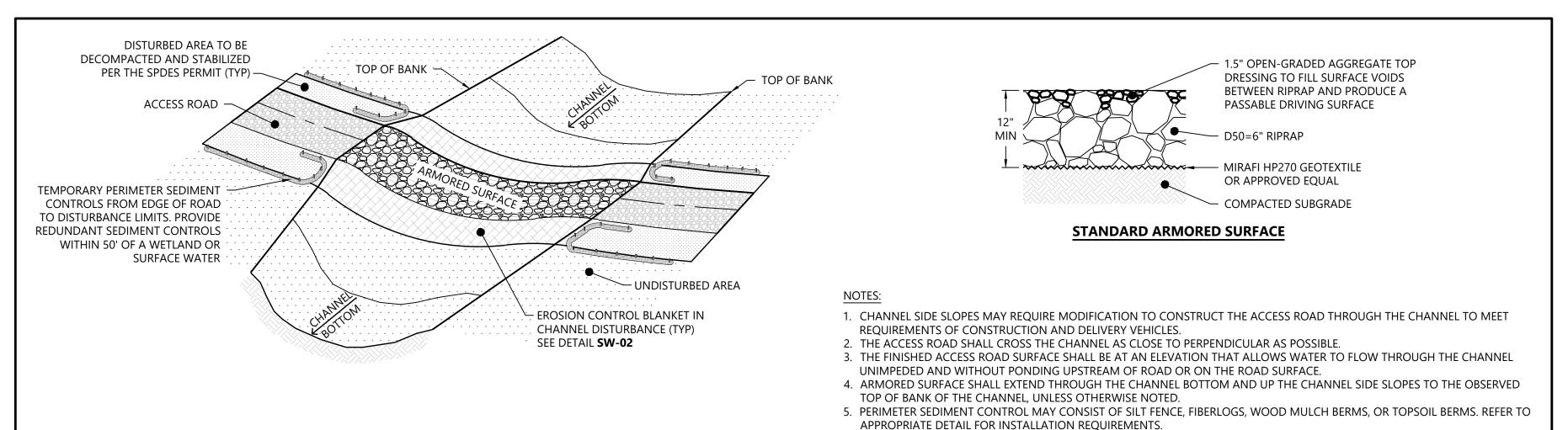
  4. ADDITIONAL SOILS SHALL BE STOCKPILED ADJACENT TO THE BORE PIT AND PROTECTED WITH PERIMETER SEDIMENT CONTROL
- 4. ADDITIONAL SOILS SHALL BE STOCKPILED ADJACENT TO THE BORE PIT AND PROTECTED WITH PERIMETER SEDIMENT CONTROL.

  5. ALTERNATE PERIMETER SEDIMENT CONTROLS MAY CONSIST OF SUIT FENCE, FIRER LOGS, OR WOOD MULCH REPMS, REFER TO APP
- 5. ALTERNATE PERIMETER SEDIMENT CONTROLS MAY CONSIST OF SILT FENCE, FIBER LOGS, OR WOOD MULCH BERMS. REFER TO APPROPRIATE DETAILS FOR INSTALLATION REQUIREMENTS.
  6. REDUNDANT PERIMETER SEDIMENT CONTROLS ARE REQUIRED WITHIN 50' OF A WETLAND OR SURFACE WATER.
- 7. UPON REMOVAL OF THE BORE PITS, THE DISTURBED AREAS SHALL BE RESTORED TO NATIVE CONDITIONS. REFER TO THE SPDES PERMIT.

Westwood POWER COLLECTION SYSTEM CROSSING OF EXISTING SWALE - BORE PIT SW-65



DN-01



STANDARD DUTY LOW WATER CROSSING

6. STABILIZE DISTURBED GROUND IN ACCORDANCE WITH THE SPDES PERMIT

7. CROSSING MAY BE INSTALLED DURING THE PROJECT RESTORATION PHASE. IF INSTALLED DURING CONSTRUCTION, MONITOR

THE CROSSING FOR DAMAGE FROM CONSTRUCTION TRAFFIC. ADDITIONAL MAINTENANCE OR REPAIRS MAY BE REQUIRED.

ACCESS ROAD FLOW **EXISTING GROUND** NOTES: . REFER TO THE MANUFACTURER OR SUPPLIER OF THE PRODUCT FOR APPLICATION, IMPLEMENTATION, AND SPECIFICATION REQUIREMENTS. 2. ALL HYDRAULICALLY APPLIED MATERIAL SHALL BE APPROVED BY ALL JURISDICTIONS HAVING AUTHORITY B. APPLY HYDRAULICALLY APPLIED MATERIAL TO EXPOSED SOILS FOR STABILIZATION MEASURES. EXPOSED SOILS MAY INCLUDE ROUGH GRADED AREAS, SOIL STOCKPILES, CUT/FILL SLOPES, ETC. 4. PREPARE SOIL SURFACES IN ACCORDANCE WITH PLANNED SEED BED PREPARATION 5. AVOID OVER SPRAY ONTO ROADS AND INFRASTRUCTURE. 6. APPLY FROM TWO DIRECTIONS (90 DEGREES BETWEEN) TO ADEQUATELY COVER THE SOIL. 7. ALLOW ADEQUATE TIME FOR HYDRAULICALLY APPLIED MATERIAL TO DRY. HYDRAULICALLY APPLIED MATERIAL SHOULD NOT BE APPLIED IMMEDIATELY BEFORE, DURING OR IMMEDIATELY AFTER RAINFALL OR IF THE SOIL IS SATURATED. 8. APPLY SEED PRIOR TO HYDRAULICALLY APPLIED MATERIAL OR MIX SEED WITH HYDRAULICALLY APPLIED MATERIAL PRIOR TO APPLICATION. SW-04 Nestwood | SLOPE STABILIZATION - HYDRAULICALLY APPLIED MATERIAI

APPLY HYDRAULICALLY APPLIED MATERIAL TO

CUT & FILL SLOPES FOR

STABILIZATION

# Westwood

# Surveying & Engineering

Phone (952) 937-5150 12701 Whitewater Drive, Suite #300 Fax (952) 937-5822 Minnetonka, MN 55343 Toll Free (888) 937-5150 ww-pc.com

Westwood Surveying and Engineering, P.C.

# EOR: Alejandro Alvarado, PE

PREPARED FOR

### Hoffman Falls Wind LLC

90 State Street Albany, NY 12207

REVISIONS:			
# DATE	COMMENT	BY	CHK A
0 01/26/2024	ISSUE FOR PERMIT	HR	HR .

# Hoffman Falls Wind Project

Madison County, New York

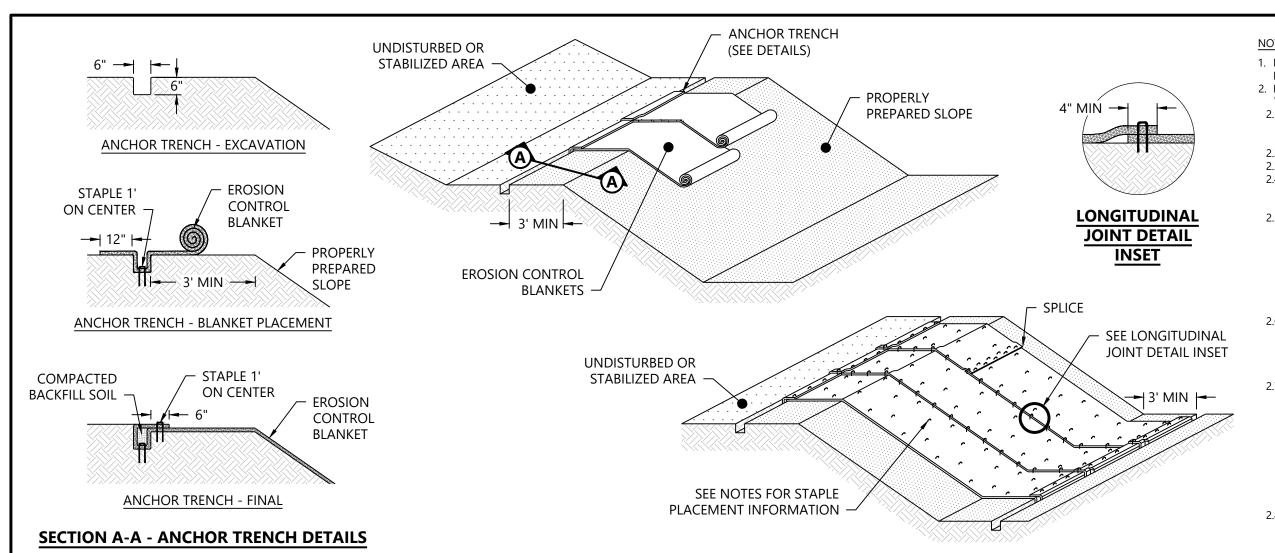
Construction Details -

# ISSUE FOR PERMIT

DATE: 01/26/2024

SHEET: C708

8 (



DESIGNATED SEDIMENT STORAGE DEPTH

WITH THIS TYPE OF APPLICATION.

14. IF FIBER LOGS ARE USED FOR EROSION CONTROL, SEDIMENT REMOVAL SHOULD NOT BE REQUIRED AS LONG AS THE

SYSTEM CONTINUES TO CONTROL THE GRADE. SEDIMENT CONTROL BMPS WILL LIKELY BE REQUIRE IN CONJUNCTION

NOTES:

1. EROSION CONTROL BLANKETS ARE INTENDED TO BE USED AS AN IMMEDIATE MULCH COVER FOR

DISTURBED SLOPES THAT HAVE BEEN TEMPORARILY OR PERMANENTLY SEEDED.

2. EROSION CONTROL BLANKETS SHALL BE INSTALLED ACCORDING TO MANUFACTURERS SPECIFICATIONS.

WHEN NOT AVAILABLE, INSTALL ACCORDING TO THIS DETAIL AND THE FOLLOWING NOTES:

2.1. STEP ONE: SITE PREPARATION. TO PREVENT TENTING THE SITE SHOULD BE FINE GRADED TO A SMOOTH PROFILE AND RELATIVELY FREE FROM ALL WEEDS, CLODS, STONES, ROOTS, STICKS, RIVULETS, GULLIES,

CRUSTING, AND CAKING. FILL ANY VOIDS AND MAKE SURE THE SLOPE IS COMPACTED PROPERLY.

2.2. STEP TWO: ADEQUATE TOPSOIL SHALL BE REAPPLIED AFTER GRADING PRIOR TO SEEDING.

2.3. STEP THREE: SEEDING. SEEDING WITHOUT MULCH SHOULD BE APPLIED TO THE AREA TO BE VEGETATED.

2.4. STEP FOUR: PREPARE THE ANCHOR TRENCH. AT THE TOP OF THE SLOPE EXCAVATE AN ANCHOR TRENCH 6" X 6". THE EROSION CONTROL BLANKET WILL BE ANCHORED INTO THE TRENCH BY STAPLES.

ALLOW A MINIMUM OF 3' FROM THE CREST OF THE SLOPE TO THE ANCHOR TRENCH.

2.5. STEP FIVE: SECURE THE EROSION CONTROL BLANKET IN THE ANCHOR TRENCH. BEGIN EROSION CONTROL BLANKET PLACEMENT 30" ABOVE THE ANCHOR TRENCH. PLACE THE EROSION CONTROL BLANKET INTO THE ANCHOR TRENCH. ANCHOR THE EROSION CONTROL BLANKET WITH STAPLES 1' ON CENTER IN THE ANCHOR TRENCH WHEN NO OTHER GUIDANCE IS AVAILABLE. BE SURE THE DRIVE STAPLES OR STAKES FLUSH WITH THE SOIL SURFACE. BACKFILL THE ANCHOR TRENCH AND COMPACT THE SOIL. PLACE SEED OVER THE COMPACTED SOIL. COVER THE COMPACTED SOIL WITH THE REMAINING 12" OF THE TERMINAL END OF THE EROSION CONTROL BLANKET. STAPLE OR STAKE TERMINAL END DOWN SLOPE OF THE ANCHOR TRENCH ON 1' CENTERS.

2.6. STEP SIX: EROSION CONTROL BLANKET DEPLOYMENT. STARTING AT THE CREST OF THE SLOPE, ROLL THE EROSION CONTROL BLANKET DOWN THE SLOPE IN A CONTROLLED MANNER TO PREVENT EXCESSIVE STRETCHING. APPROXIMATELY EVERY 20'-25' PULL THE EROSION CONTROL BLANKET TO TAKE OUT ANY EXCESS SLACK. THE GOAL IS TO HAVE THE EROSION CONTROL BLANKET CONTOUR AND INITIATE CONTACT WITH THE SOIL.

STEP SEVEN: STAPLE OR STAKE THE EROSION CONTROL BLANKET. SECURE THE OVERLAP OR THE EDGES WITH STAPLES. THE TYPICAL INSTALLATION WILL REQUIRE ONE STAPLE PLACED AT 3' INTERVALS ALONG THE VERTICAL LENGTH OF THE EROSION CONTROL BLANKET. STAPLES SHOULD BE STAGGERED EVERY 18" TO 24" HORIZONTALLY ACROSS THE EROSION CONTROL BLANKET. IF THE EROSION CONTROL BLANKET NEEDS TO BE SPLICED IN THE MIDDLE OF A SLOPE BE SURE THE EROSION CONTROL BLANKET IS "SHINGLED" WITH UP-SLOPE EROSION CONTROL BLANKET OVERLAPPING THE DOWN-SLOPE EROSION CONTROL BLANKET. THERE SHOULD BE A MINIMUM OF 4" OF OVERLAP IN A SPLICE. USE A STAPLE CHECK SLOT TO SECURE THE OVERLAP. A STAPLE CHECK SLOT IS MADE BY PLACING A ROW OF STAPLES 4" ON CENTER, STAGGERED FROM THE FIRST ROW

2.8. STEP EIGHT: SECURING THE EROSION CONTROL BLANKET AT THE TOE OF THE SLOPE. ROLL THE EROSION CONTROL BLANKET 36" PAST THE TOE OF THE SLOPE. STAPLE OR STAKE TERMINAL END OF THE EROSION CONTROL BLANKET ON 1' CENTERS.

30 FT

20 FT

10 FT

30 FT

15 FT

3:1

2:1

60 FT

40 FT

20 FT

UNDISTURBED

GROUND

EROSION CONTROL BLANKET INSTALLATION FOR SLOPE

NOT TO SCALE

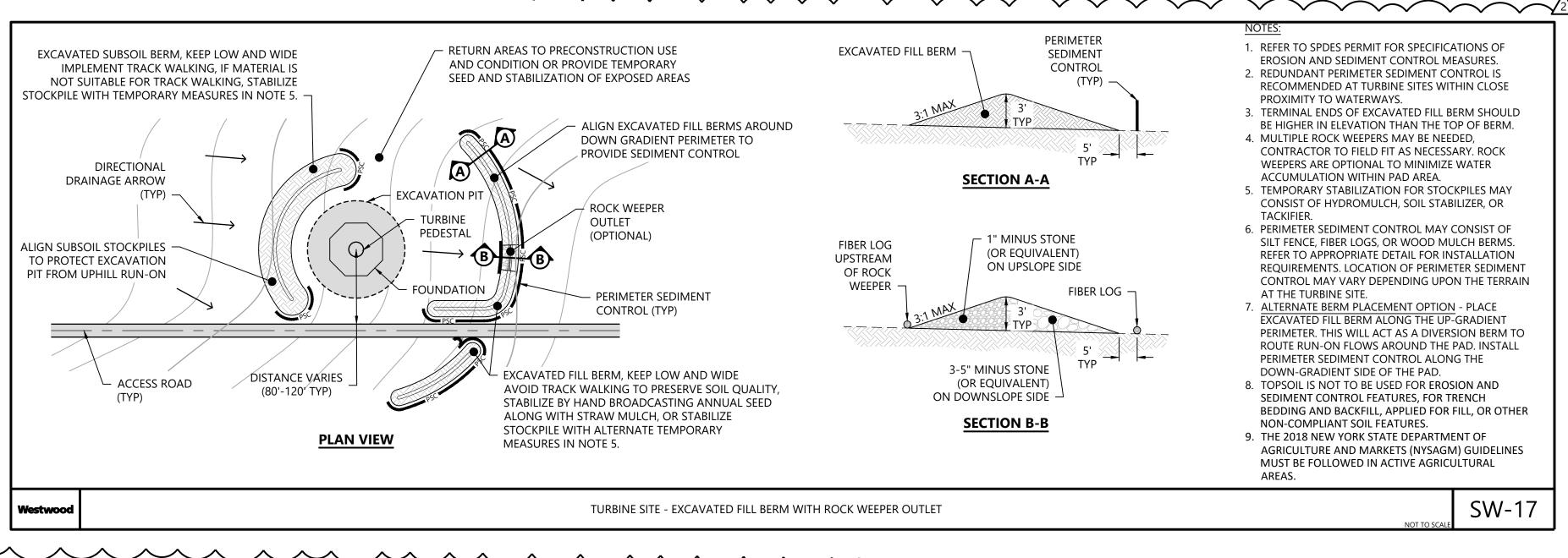
#### DISTURBED FIBER LOGS PLACED STAKING TO SECURE LOG -ALONG CONTOUR I. FIBER LOGS SHALL BE PREFABRICATED AND MADE FROM WEED FREE RICE STRAW, FLAX, OR A SIMILAR AGRICULTURAL WITHOUT PUNCTURE MATERIAL BOUND INTO A TIGHT TUBULAR LOG BY NETTING. FIBER LOG 2. STAKE FIBER LOGS INTO THE TRENCH. DRIVE STAKES AT THE END OF EACH FIBER LOG AND SPACED 4 FEET MAXIMUM ON MIN 9" MIN 12" DRIVEN WOODEN CENTER. USE WOOD STAKES WITH NOMINAL CLASSIFICATION OF 1" BY 1" AND A MINIMUM LENGTH OF 24". **EMBEDDED** STAKES TO BE 3. PREPARE THE SLOPE BEFORE BEGINNING THE INSTALLATION. PERPENDICULAR TO STAKES 4. DIG SMALL TRENCHES ACROSS THE SLOPE ON THE CONTOUR. THE TRENCH DEPTH SHOULD BE 1/4 TO 1/3 OF THE SURFACE (MIN) THICKNESS OF THE LOG, AND THE WIDTH SHOULD EQUAL THE LOG DIAMETER, IN ORDER TO PROVIDE AREA TO BACKFILL MAX SPACING . LOGS SHALL BE INSTALLED PERPENDICULAR TO WATER MOVEMENT, AND PARALLEL TO THE SLOPE CONTOUR. (SEE TABLE) 6. START BUILDING TRENCHES AND INSTALLING LOGS FROM THE BOTTOM OF THE SLOPE AND WORK UP. 7. TURN THE ENDS OF THE FIBER LOGS UP SLOPE TO PREVENT RUNOFF FROM GOING AROUND THE LOG. 24" MIN/ NO PUNCTURE METHOD 8. IF MORE THAN ONE FIBER LOG IS PLACED IN A ROW, THE LOGS SHOULD BE OVERLAPPED, NOT ABUTTED 9. FIBER LOGS ENCASED WITH PLASTIC NETTING ARE USED FOR A TEMPORARY APPLICATION ONLY AND SHOULD BE REMOVED FOLLOWING STABILIZATION. FIBER LOGS USED IN A PERMANENT APPLICATION SHALL BE ENCASED WITH A BIODEGRADABLE MATERIAL AND MAY BE LEFT IN. 10. TEMPORARY INSTALLATIONS SHOULD ONLY BE REMOVED WHEN UP GRADIENT AREAS ARE STABILIZED PER GENERAL PERMIT REQUIREMENTS, AND/OR POLLUTANT SOURCES NO LONGER PRESENT A HAZARD. BUT, THEY SHOULD ALSO BE **WOODEN STAKE** REMOVED BEFORE VEGETATION BECOMES TOO MATURE SO THAT THE REMOVAL PROCESS DOES NOT DISTURB MORE SOIL AND VEGETATION THAN IS NECESSARY 11. FIBER LOGS MUST BE INSPECTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS FOR THE ASSOCIATED MAXIMUM SPACING RECOMMENDATIONS PROJECT TYPE AND RISK LEVEL. IT IS RECOMMENDED THAT A MINIMUM, THE BMPS BE INSPECTED WEEKLY, PRIOR TO FORECASTED RAIN EVENTS, DAILY DURING EXTENDED RAIN EVENTS, AND AFTER THE CONCLUSION OF RAIN EVENTS. WRAP ENDS UPSLOPE TO MINIMUM 8' FIBER LOG SIZE 12. REPAIR OR REPLACE SPLIT, TORN, UNRAVELING, OR SLUMPING FIBER LOGS. CONTAIN RUNOFF FROM OVERLAP OF 13. IF THE FIBER LOG IS USED AS A SEDIMENT CAPTURE DEVICE, OR AS AN EROSION CONTROL DEVICE TO MAINTAIN SHEET 20" DIA. SLOPE 9" DIA. 12" DIA. CONSTRUCTION AREA LOGS (TYP) GRADING LIMITS -FLOWS, SEDIMENT THAT ACCUMULATES IN THE BMP SHOULD BE PERIODICALLY REMOVED IN ORDER TO MAINTAIN BMP 60 FT 80 FT ≤4:1 EFFECTIVENESS. SEDIMENT SHOULD BE REMOVED WHEN SEDIMENT ACCUMULATION REACHES ONE-THIRD THE

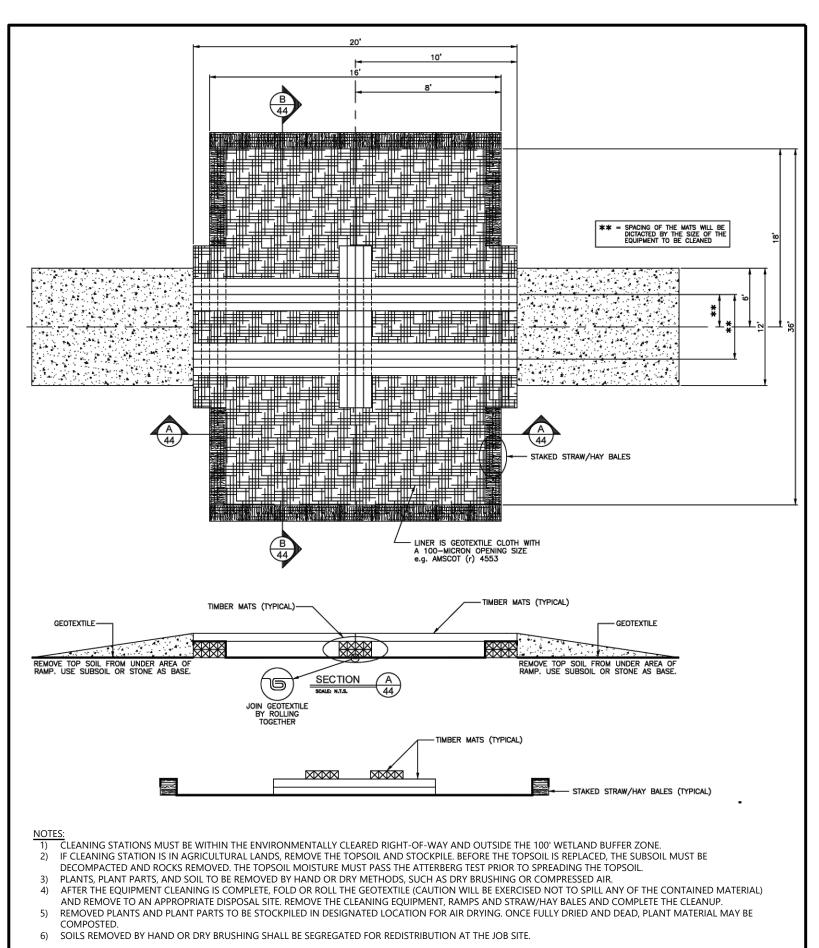
15. REPAIR ANY RILLS OR GULLIES PROMPTLY.

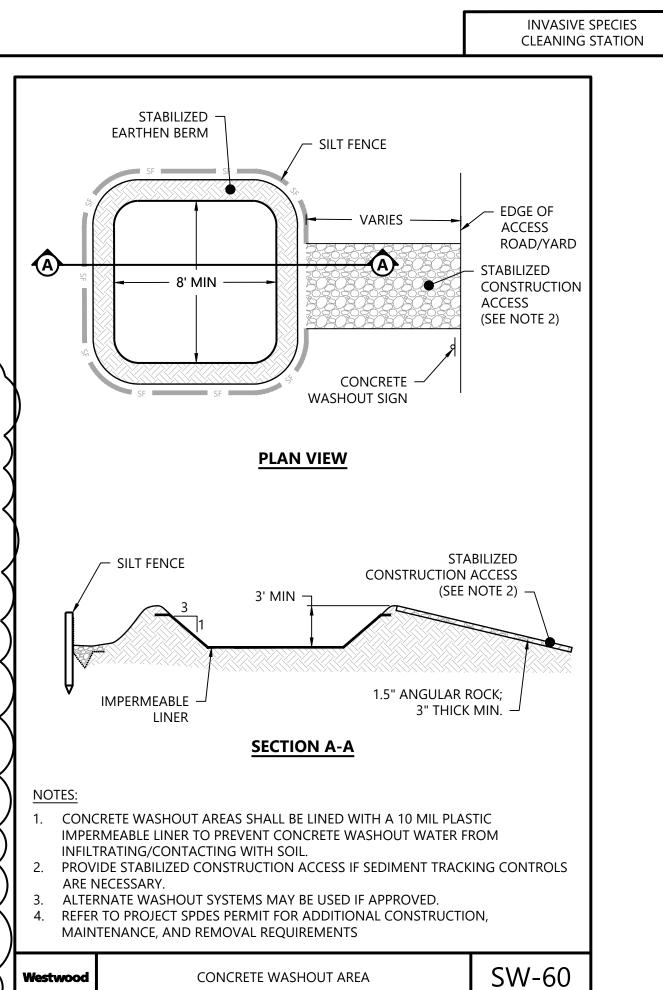
FIBER LOGS - SLOPE APPLICATION

SW-05

**PERSPECTIVE VIEW** 







# Westwood

Westwood Surveying and Engineering, P.C.

**Surveying & Engineering** 

Phone (214) 473-4640 2805 North Dallas Parkway, Suite #150 Toll Free (888) 937-5150 Plano, TX 75093 ww-pc.com

EOR: Alejandro Alvarado, PE

# Hoffman Falls Wind LLC

### 90 State Street Albany, NY 12207

	VISIONS:	CO. 41 451 45		G. 114	
#	DATE	COMMENT	ВҮ	СНК	APR
0	01/26/2024	ISSUE FOR PERMIT	HR	HR	AL
2	05/23/2024	NOIA Response	HR	HR	AL

# Hoffman Falls Wind Project

Madison County, New York

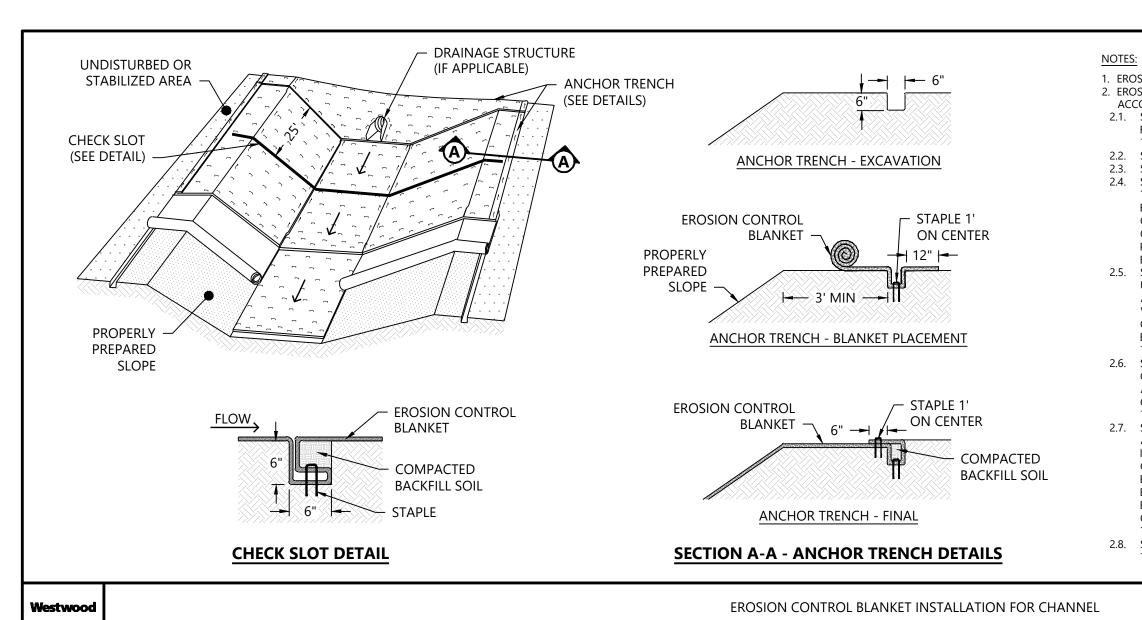
Construction Details - 10

ISSUE FOR PERMI

DATE: 05/23/2024

неет: С709

KI



1. EROSION CONTROL BLANKETS ARE USED TO TEMPORARILY AND PERMANENTLY STABILIZE DITCHES AND SWALES. 2. EROSION CONTROL BLANKETS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS. WHEN NOT AVAILABLE INSTALL

ACCORDING TO THIS DETAIL AND THE FOLLOWING NOTES: 2.1. STEP ONE: SITE PREPARATION. TO PREVENT TENTING THE CHANNEL SHOULD BE FINE GRADED TO A SMOOTH PROFILE AND RELATIVELY FREE FROM ALL WEEDS, CLODS, STONES, ROOTS, STICKS, RIVULETS, GULLIES, CRUSTING, AND CAKING. FILL ANY VOIDS AND MAKE SURE

THE CHANNEL IS COMPACTED PROPERLY 2.2. STEP TWO: ADEQUATE TOPSOIL SHALL BE REAPPLIED AFTER GRADING PRIOR TO SEEDING.

2.3. STEP THREE: SEEDING. SEEDING WITHOUT MULCH SHOULD BE APPLIED TO THE AREA TO BE VEGETATED. 2.4. STEP FOUR: ANCHORING THE EROSION CONTROL BLANKET. EROSION CONTROL BLANKETS SHALL BE ANCHORED AT THE BEGINNING OF THE CHANNEL. A 6" X 6" DEEP TRENCH SHOULD BE EXCAVATED PERPENDICULAR TO THE DIRECTION OF WATER FLOW ACROSS THE ENTIRE WIDTH OF THE CHANNEL. THE EROSION CONTROL BLANKET SHOULD BE LAID IN THE CHECK SLOT WITH 30" OF THE EROSION CONTROL BLANKET EXTENDING UPSTREAM OF THE ANCHORING TRENCH. STAKE OR STAPLE THE EROSION CONTROL BLANKET IN THE CHECK SLOT ON 12" CENTERS WHEN NO OTHER GUIDANCE IS AVAILABLE. BACKFILL THE ANCHOR TRENCH AND COMPACT THE SOIL. PLACE SEED OVER THE COMPACTED SOIL. COVER THE COMPACTED SOIL WITH THE REMAINING 12 INCHES OF THE TERMINAL END OF THE EROSION CONTROL BLANKET, STAPLE OR STAKE TERMINAL END DOWN SLOPE OF THE ANCHOR TRENCH ON 12" CENTERS.

2.5. STEP FIVE: EROSION CONTROL BLANKET DEPLOYMENT IN THE CHANNEL BOTTOM. THE EROSION CONTROL BLANKETS SHOULD BE UNROLLED IN THE DIRECTION OF WATER FLOW. FIRST THE EROSION CONTROL BLANKET IS DEPLOYED IN THE CHANNEL BOTTOM. IT IS ALSO NECESSARY TO PREVENT A SEAM FROM GOING DOWN THE CENTER OF THE CHANNEL BOTTOM OR IN AREAS OF CONCENTRATED WATER FLOW. WHEN INSTALLING TWO EROSION CONTROL BLANKETS SIDE BY SIDE IN A WATERWAY THE CENTER OF THE EROSION CONTROL BLANKET SHOULD BE CENTERED IN THE AREA OF CONCENTRATED WATER FLOW. INSTALL ADJOINING EROSION CONTROL BLANKETS AWAY FROM THE CENTER OF THE CHANNEL BOTTOM. ADJOINING EROSION CONTROL BLANKETS SHOULD BE OVERLAPPED 4" TO 6". CONTINUE TO INSTALL A COMMON ROW OF STAPLES AT 2' CENTERS ALONG THE LENGTH OF THE OVERLAP

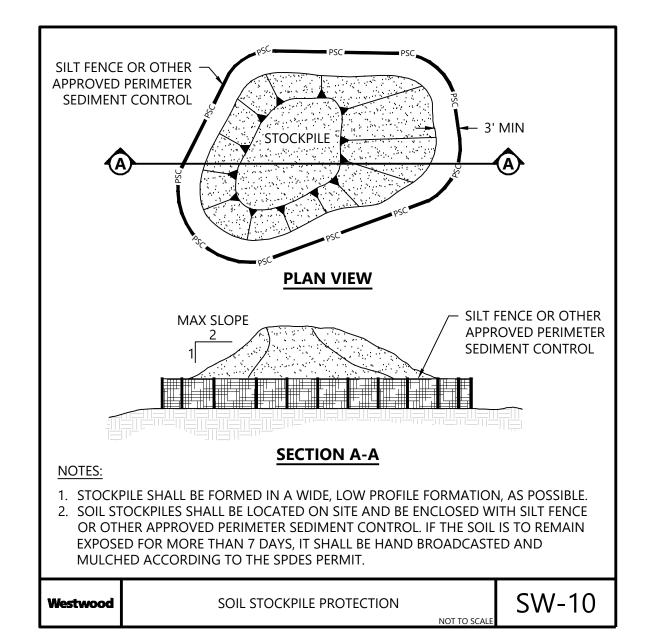
2.6. STEP SIX: CHECK SLOTS. CHECK SLOTS SHOULD BE PLACED PERPENDICULAR TO THE FLOW DIRECTION ACROSS THE ENTIRE WIDTH OF THE CHANNEL AT 25' INTERVALS AND AT THE TERMINAL FND OF THE CHANNEL THE CHECK SLOTS SHOULD BE PLACED IN A 6" X 6" TRENCH AS SHOWN. SECURE THE EROSION CONTROL BLANKET IN THE UPSTREAM SIDE OF THE CHECK SLOT WITH STAPLES OR STAKES ON 12" CENTERS. FLIP THE EROSION CONTROL BLANKET ROLL ON THE UPSTREAM EDGE. BACK FILL THE CHECK SLOT AS SHOWN AND COMPACT THE SOIL. CONTINUE ROLLING THE EROSION CONTROL BLANKET DOWNSTREAM OVER THE COMPLETED CHECK SLOT

2.7. STEP SEVEN: EROSION CONTROL BLANKET DEPLOYMENT ON THE SIDE SLOPES. CONTINUE TO ROLL THE EROSION CONTROL BLANKET ALONG THE CHANNEL BOTTOM AND SIDE SLOPES IN THE DIRECTION OF THE WATER FLOW AS THE FROSION CONTROL BLANKET IS INSTALLED FROM THE CHANNEL BOTTOM UP THE SLOPE, A SHINGLE TYPE INSTALLATION IS NECESSARY WITH THE UP-SLOPE EROSION CONTROL BLANKET OVERLAPPING THE LOWER EROSION CONTROL BLANKET APPROXIMATELY 4". ANCHOR THE EROSION CONTROL BLANKETS WITH A MINIMUM OF ONE STAPLE EVERY 24" ACROSS THE WIDTH AND ONE STAPLE EVERY 36" DOWN ITS LENGTH. IF THE FROSION CONTROL BLANKET NEEDS TO BE SPLICED. BE SURE THE FROSION CONTROL BLANKET IS "SHINGLED" WITH THE UPSTREAM EROSION CONTROL BLANKET OVERLAPPING THE DOWNSTREAM EROSION CONTROL BLANKET. THERE SHOULD BE A MINIMUM OF 4" OF OVERLAP IN A SPLICE. USE A STABLE CHECK SLOT TO SECURE THE OVERLAP. ANCHOR THE EROSION CONTROL BLANKET PLACED AT THE TOP OF THE CHANNEL SLOPE IN THE SAME MANNER AS SHOWN.

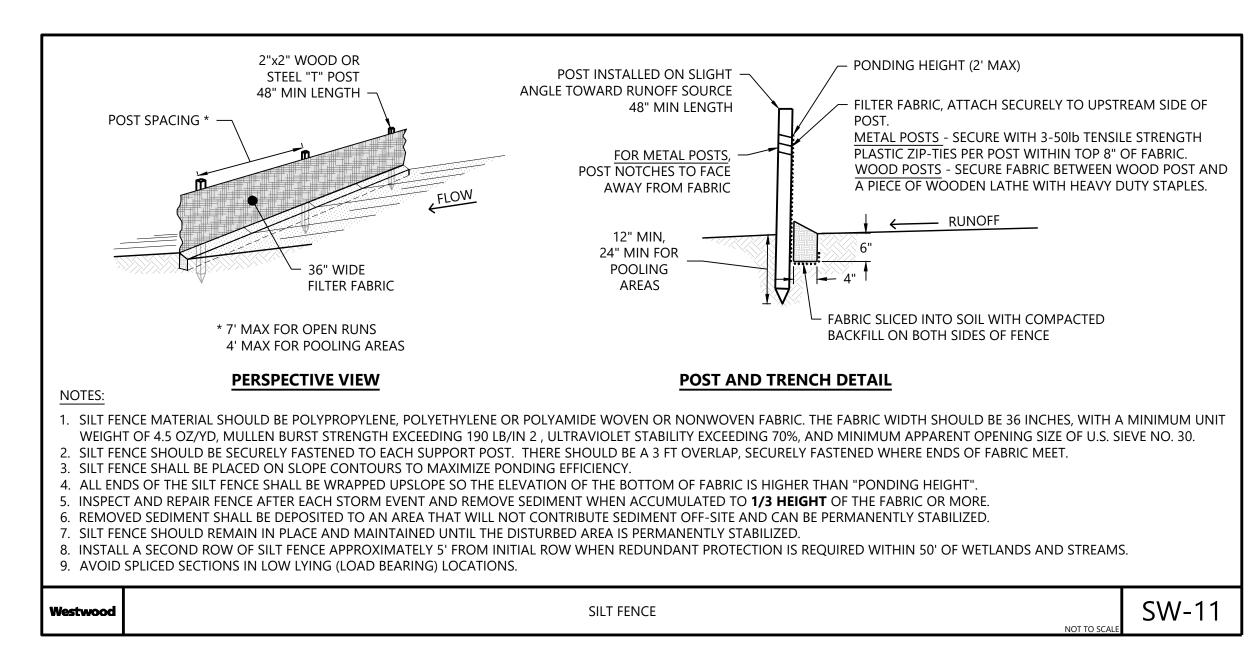
2.8. STEP EIGHT: TERMINAL END. SECURE THE EROSION CONTROL BLANKET AT THE TERMINAL END OF THE CHANNEL WITH A SLOT SIMILAR

TO THE ONE MADE AT THE BEGINNING OF THE CHANNEL.

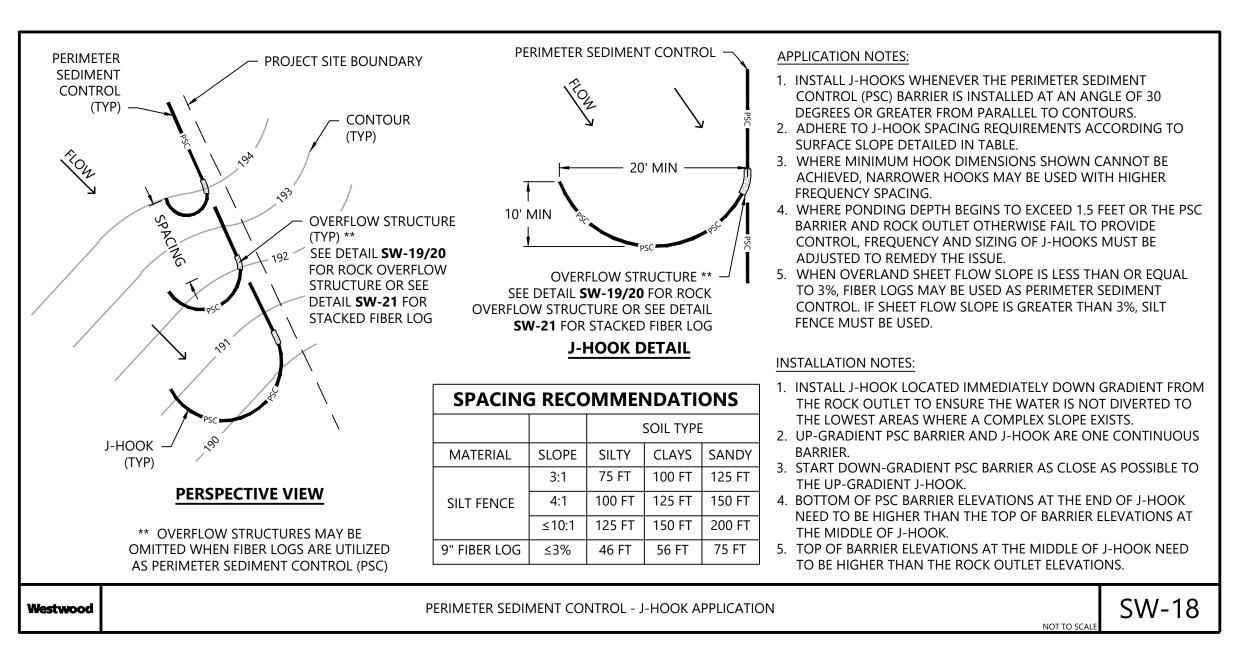
SW-07

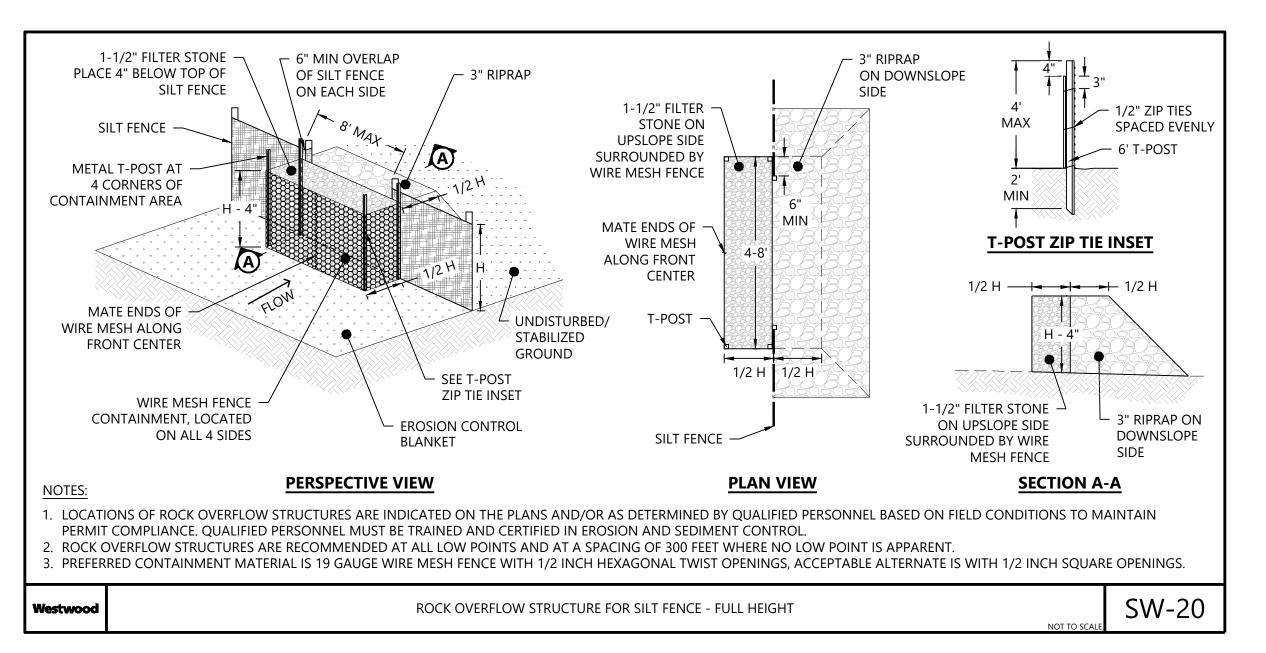


DISTURBANCE CORRIDOR FOR UNDERGROUND COLLECTION FIBER LOGS PLACED 1. REFER TO THE SPDES PERMIT, APPLICABLE STATE BMP MANUALS TRENCH OR CRANE TRAVEL (WIDTH VARIES) ACROSS DISTURBED AND THE PROJECT SWPPP FOR IMPLEMENTATION AND TIMING ACCESS ROAD COLLECTION OR CRANE REQUIREMENTS. AGGREGATE BASE CORRIDORS GROUND (TYP) 2. VELOCITY CHECKS SHALL BE INSTALLED IN AREAS WHERE A APPLIED FOR DISTURBANCE ACTIVITY IS NEAR PERPENDICULAR (±30°) TO THE STABILIZATION CONTOURS AND RUNOFF FLOWS DOWN THE DISTURBANCE CONTOUR -PATH. IF DISTURBANCE IS SLOPED TO ONE SIDE, APPLY VELOCITY CHECKS WITH J-HOOKS AT THE SPACING RECOMMENDED BELOW, SEE **SW-18** FOR DETAILS ON J-HOOKS. 3. ROAD APPLICATION: INSTALL VELOCITY CHECKS ACROSS DISTURBED SHOULDERS. 4. CRANE PATH APPLICATION: INSTALL VELOCITY CHECKS ACROSS THE CRANE PATH DISTURBANCE. REMOVE AND REPLACE FIBER **APPLY TEMPORARY** LOGS FOR CRANE TRAVEL STABILIZATION AND . UNDERGROUND COLLECTION TRENCH APPLICATION: INSTALL SEEDING IN AREAS OF VELOCITY CHECKS ACROSS DISTURBANCE PATH. NON-AGRICULTURAL ACTIVITY 6. WHERE RILLING AND CHANNELIZATION OCCURS AND VELOCITY CHECKS FAIL TO PROVIDE ADEQUATE EROSION CONTROL, APPLICATION OF HYDROMULCH, STRAW MULCH OR EROSION MAXIMUM CONTROL BLANKET (TEMPORARY STABILIZATION) MUST BE SLOPE SPACING (FT) APPLIED AFTER SOIL PREPARATION TO REMEDY THE ISSUE. DISTURBANCE LIMITS **INSTALLATION NOTES:** 2% OR FLATTER AS NEEDED FIBER LOGS PLACED ALONG ROAD INSTALL VELOCITY CHECKS PER THE SPACING REQUIREMENTS 80' 4% SHOULDERS OF ROAD, ENSURE ACCORDING TO THE SURFACE SLOPE DETAILED IN THE TABLE, APPLY TEMPORARY RUNOFF FROM ROAD SURFACE DOES 60' AND ADJUST BASED ON FIELD CONDITIONS. STABILIZATION AND NOT BYPASS VELOCITY CHECKS INSTALL VELOCITY CHECKS PARALLEL TO THE CONTOURS AND SEEDING IN AREAS OF ACROSS DISTURBANCE CORRIDOR. NON-AGRICULTURAL 20' 10% - 4:1 3. ELEVATIONS AT THE ENDS OF FIBER LOG NEED TO BE HIGHER ACTIVITY THAN THE ELEVATION AT THE MIDDLE OF FIBER LOG. BOTH 4:1 - 2:1 15' **PERSPECTIVE VIEW** ENDS SHOULD HAVE A SMALL HOOK TO ENSURE THAT WATER FLOWS OVER THE FIBER LOG AND NOT AROUND THE ENDS. > 2:1 10' 4. SEE **SW-13** FOR INSTALLATION SPECIFICATIONS OF FIBER LOGS. **VELOCITY CHECKS - FIBER LOGS** 



SW-02





# Westwood

# **Surveying & Engineering**

(952) 937-5150 12701 Whitewater Drive, Suite #300 (952) 937-5822 Minnetonka, MN 55343 (888) 937-5150 ww-pc.com Westwood Surveying and Engineering, P.C.

# EOR: Alejandro Alvarado, PE

# Hoffman Falls Wind LLC

90 State Street Albany, NY 12207

REV	ISIONS:				
#	DATE	COMMENT	BY	СНК	Α
0 0	1/26/2024	ISSUE FOR PERMIT	HR	HR	A

# **Hoffman Falls Wind Project**

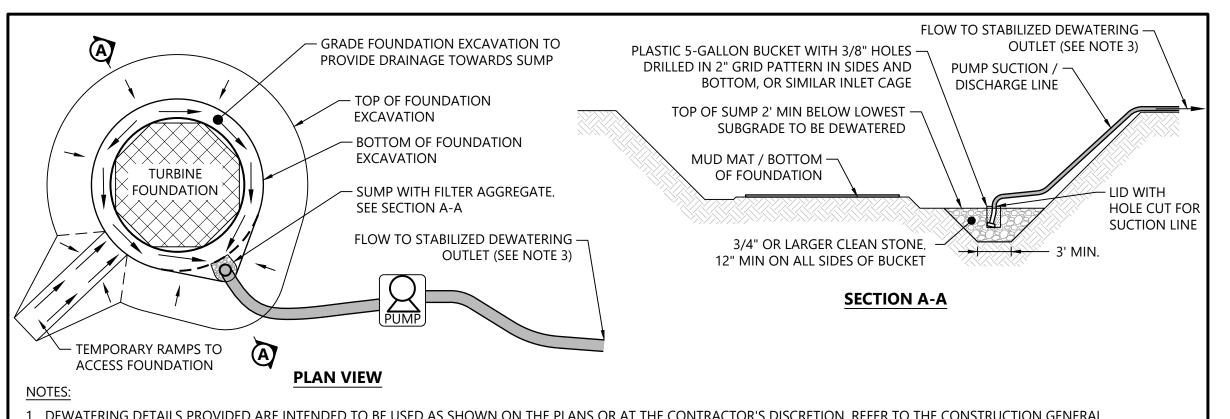
Madison County, New York

Construction Details -

# **ISSUE FOR PERMIT**

01/26/2024 DATE:

C710 SHEET



- . DEWATERING DETAILS PROVIDED ARE INTENDED TO BE USED AS SHOWN ON THE PLANS OR AT THE CONTRACTOR'S DISCRETION. REFER TO THE CONSTRUCTION GENERAL
- PERMIT FOR ADDITIONAL INFORMATION. 2. THE OWNER OR CONTRACTOR SHALL CONFIRM CONSTRUCTION STORMWATER DISCHARGE (DEWATERING) IS COVERED BY THE CONSTRUCTION STORMWATER GENERAL PERMIT PRIOR TO ANY DEWATERING OPERATIONS DISCHARGING FROM THE SITE. ADDITIONAL DEWATERING PERMITS MAY BE REQUIRED. ALL DEWATERING SHALL BE IN ACCORDANCE WITH THE PERMIT REQUIREMENTS.
- 3. A STABILIZED DEWATERING OUTLET IS REQUIRED TO REDUCE SUSPENDED SEDIMENT TO ALLOWABLE LEVELS PRIOR TO RELEASE OFF SITE OR TO RECEIVING WATER. SEE
- ADDITIONAL DETAILS FOR DEWATERING OUTLETS. 4. INSPECT EACH WORKDAY AND MAINTAIN IN EFFECTIVE OPERATING CONDITION.
- 5. ANY DISTURBED AREA SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED, OR OTHERWISE STABILIZED PER THE CONSTRUCTION GENERAL PERMIT.

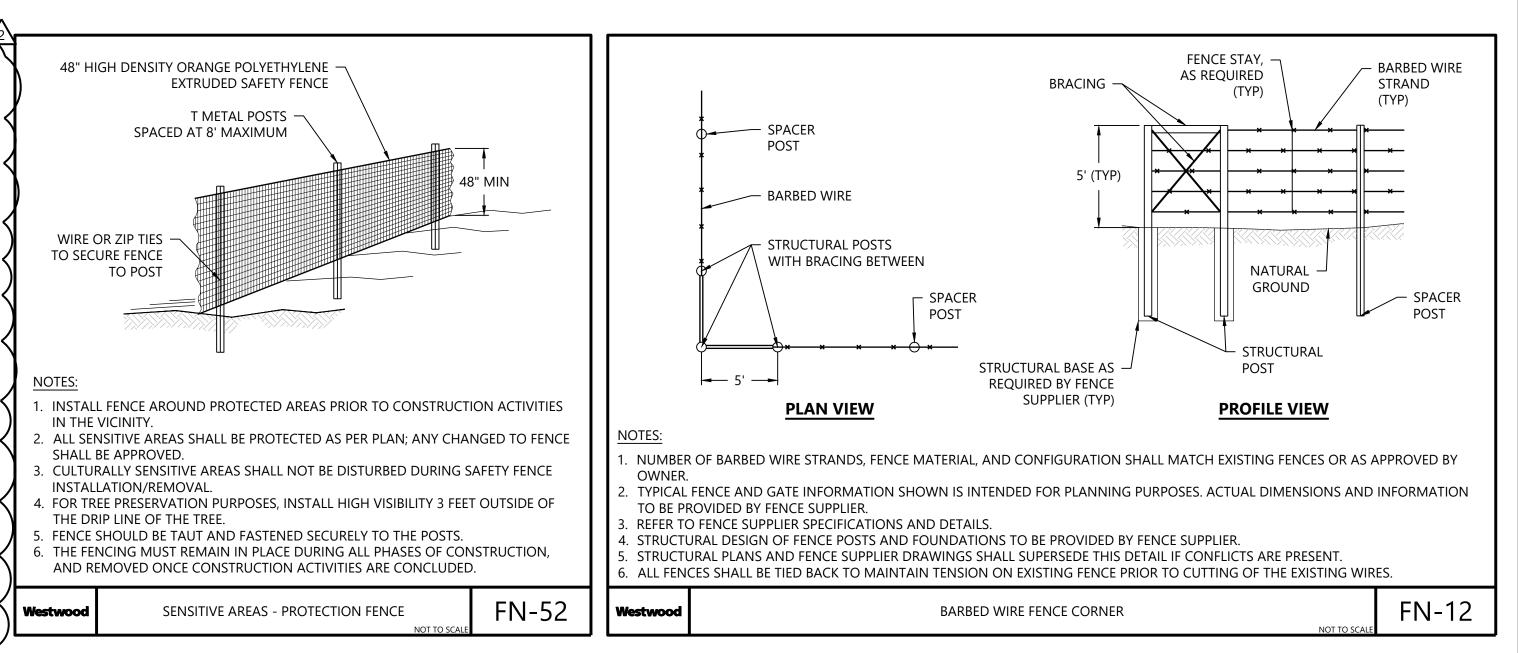
SW-50 **DEWATERING INLET - TURBINE EXCAVATION** 

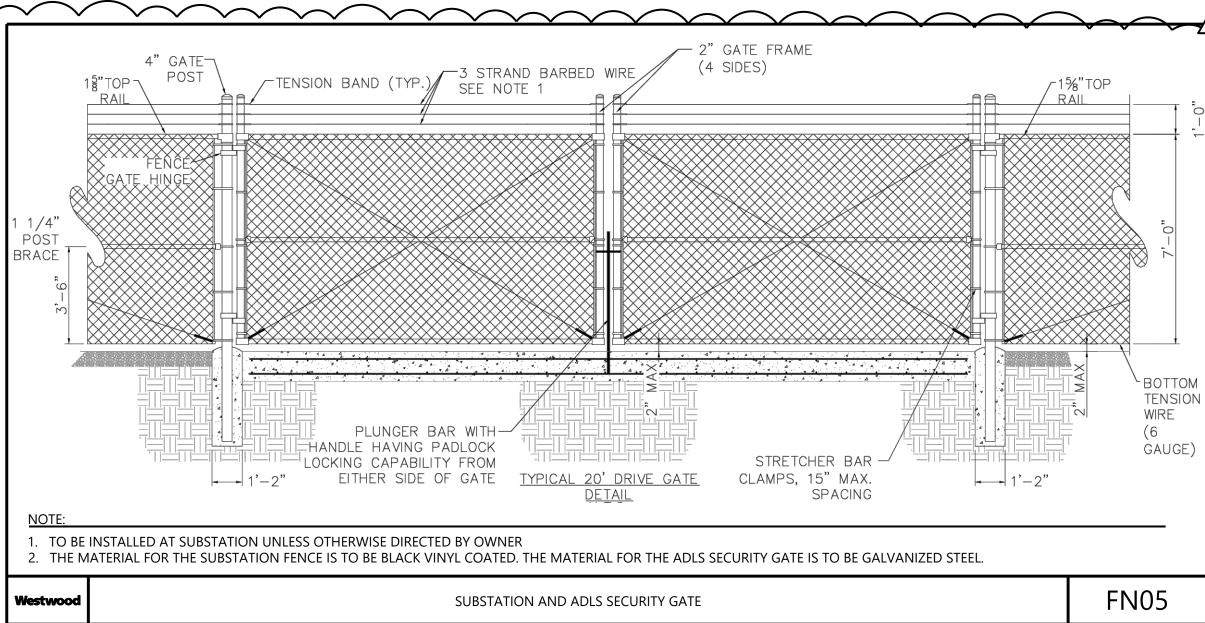
**CULVERT CROSSING SHOWN FOR** 6MIL POLY OR FILTER - DO NOT DISTURB LAND REFERENCE. WORK ACTIVITIES IN THE FABRIC ANCHORED **UPSTREAM OF** DRY WORK AREA MAY VARY PER BY SANDBAGS PLASTIC 5-GALLON **TEMPORARY DAM** PLANS AND OTHER DETAILS **BUCKET WITH 3/8"** 2 SAND BAG HOLES DRILLED IN MINIMUM 2" GRID PATTERN II TOP WIDTH SIDES, FILLED WITH - 3/4" CLEAN STONE – DRY WORK AREA **BETWEEN DAMS UPSTREAM SIDE** DISSIPATION TO - LID WITH PREVENT SCOUR, **B** HOLE CUT FOR REMOVE WHEN **SECTION A-A** SUCTION LINE **PUMPING IS EROSION CONTROL BLANKET IN** COMPLETE CHANNEL DISTURBANCE (TYP) (SEE NOTE 3 SEE DETAIL **SW-02** SAND BAG DAM DISCHARGE DO NOT DISTURB LAND DOWNSTREAM OF TEMPORARY DAM **SECTION B-B ISOMETRIC VIEW** NOTES

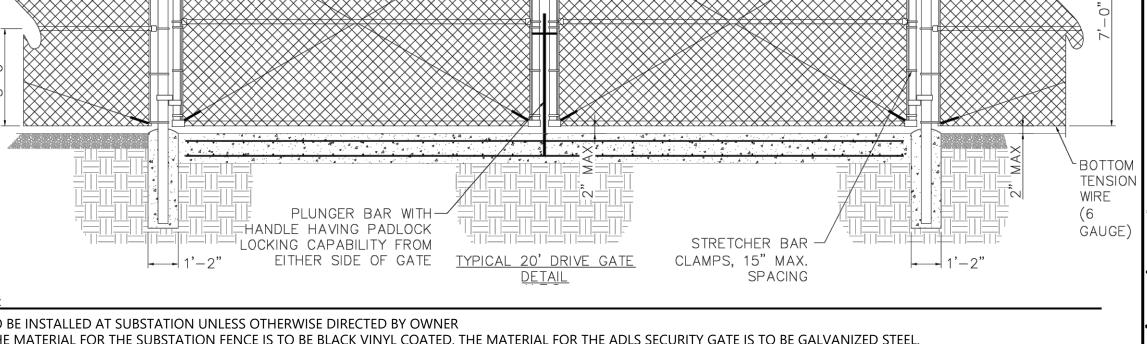
1. TEMPORARY DAM WITH PUMP BYPASS SHALL BE USED IF DISTURBANCE TO CHANNEL IS PLANNED DURING WET CONDITIONS, TO PROVIDE A DRY WORK AREA IN THE CHANNEL

- . MINIMIZE DISTURBANCE TO THE CHANNEL DURING WORK ACTIVITIES. INSTALLATION SHOULD BEGIN AT THE UPSTREAM END.
- 3. A PUMP ATTACHED TO THE INTAKE SHALL BE USED TO CONVEY WATER AROUND THE DRY WORK AREA. THE PUMPED WATER WILL BE DISCHARGED DOWN STREAM OF THE WORK AREA USING ENERGY DISSIPATION AT THE DISCHARGE LOCATION TO PREVENT ANY SCOUR. ROCK IS SHOWN ABOVE, BUT ALTERNATE METHODS USED TO PREVENT SCOUR ARE ACCEPTABLE.
- 4. THE RATE OF THE PUMP MUST MATCH EXISTING FLOW RATES/VOLUMES.
- 5. THE PUMPED BYPASS SHALL NOT REMAIN OVERNIGHT. ALL CROSSING CONSTRUCTION ACTIVITY INCLUDING RESTORATION MUST BE DONE WITHIN THE SAME WORK DAY.
- 6. PROVIDE SECONDARY CONTAINMENT FOR THE PUMP EQUIPMENT. LOCATE PUMP AS FAR AWAY AS FEASIBLE, WITH A 50' MINIMUM SEPARATION FROM PUMP AND THE EDGE OF WATER

SW-53 TEMPORARY SAND BAG DAM WITH PUMPED BYPASS







Westwood	SUBSTATION AND ADLS SECURITY GATE	FN05
----------	-----------------------------------	------

#### 1. FIBER LOGS SHALL BE INSTALLED PRIOR TO UPSLOPE DISTURBANCE ACTIVITIES COMMENCE AREA/PROJECT SITE 2. FIBER LOGS SHALL BE PREFABRICATED AND MADE FROM CERTIFIED STRAW, WOOD, OR COCONUT DRIVEN WOODEN STAKES TO BE FIBER MATERIAL BOUND INTO A TIGHT TUBULAR LOG BY NETTING. USE A 9" DIA. LOG MINIMUM. 24" MIN// - 1" MIN PERPENDICULAR TO SURFACE 3. TRENCHES SHALL BE CREATED ALONG THE SLOPE OF THE PERIMETER. THE TRENCH DEPTH SHOULD BE 1/4 TO 1/3 OF THE THICKNESS OF THE LOG, AND THE WIDTH SHOULD EQUAL THE LOG DIAMETER, IN ORDER TO PROVIDE AREA TO BACKFILL THE TRENCH. 4. STAKE FIBER LOGS INTO THE TRENCH. DRIVE STAKES AT THE END OF EACH FIBER LOG AND SPACED 4 FEET MAXIMUM ON CENTER. USE HARD WOOD STAKES WITH NOMINAL CLASSIFICATION OF AT LEAST 1" BY 1" AND A MINIMUM LENGTH OF 24". STAKES SHALL BE EMBEDDED A MINIMUM DEPTH OF 12". 5. LOGS SHALL BE INSTALLED PERPENDICULAR TO WATER MOVEMENT, AND PARALLEL TO THE SLOPE THE UPSLOPE POINT SHOULD BE A MINIMUM 12" HIGHER IN ELEVATION THAN THE LOW POINT. 7. IF MORE THAN ONE FIBER LOG IS PLACED IN A ROW, THE LOGS SHOULD BE OVERLAPPED A MINIMUM WRAP ENDS UPSLOPE TO

**CONTAIN RUNOFF FROM** 

STAKING TO ·

SECURE LOG

WITHOUT

**PUNCTURE** 

MIN 12"

**EMBEDDED** 

CONSTRUCTION AREA

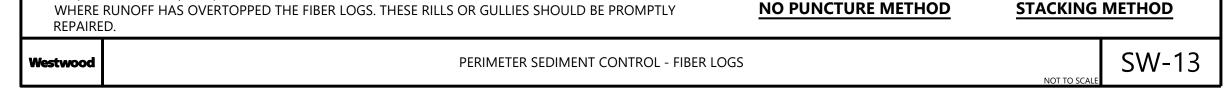
UNDISTURBED AREA

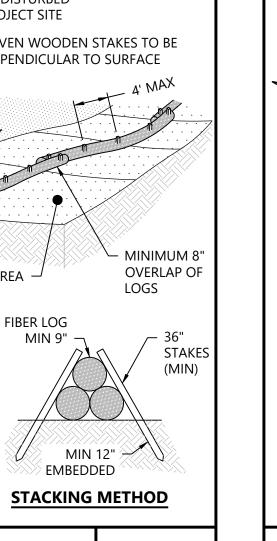
STAKES

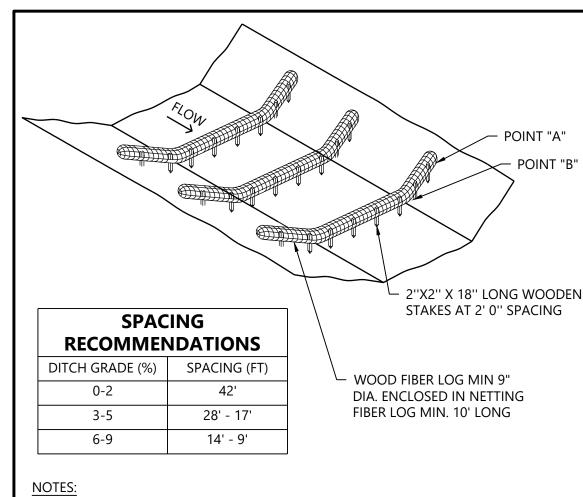
- FIBER LOG

MIN 9"

- 6. TURN THE ENDS OF THE FIBER LOGS UP SLOPE TO PREVENT RUNOFF FROM GOING AROUND THE LOG.
- 8. FIBER LOGS ENCASED WITH PLASTIC NETTING ARE USED FOR A TEMPORARY APPLICATION ONLY AND
- SHOULD BE REMOVED FOLLOWING STABILIZATION. FIBER LOGS USED IN A PERMANENT APPLICATION SHALL BE ENCASED WITH A BIODEGRADABLE MATERIAL AND MAY BE LEFT IN. . TEMPORARY INSTALLATIONS SHOULD ONLY BE REMOVED WHEN UP GRADIENT AREAS ARE
- STABILIZED PER GENERAL PERMIT REQUIREMENTS, AND/OR POLLUTANT SOURCES NO LONGER PRESENT A HAZARD. BUT, THEY SHOULD ALSO BE REMOVED BEFORE VEGETATION BECOMES TOO MATURE SO THAT THE REMOVAL PROCESS DOES NOT DISTURB MORE SOIL AND VEGETATION THAN IS NECESSARY
- 10. FIBER LOGS MUST BE INSPECTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS FOR THE
- ASSOCIATED PROJECT TYPE AND RISK LEVEL.
- 11. REPAIR OR REPLACE SPLIT, TORN, UNRAVELING, OR SLUMPING FIBER LOGS. 12. SEDIMENT THAT ACCUMULATES UPSLOPE OF THE BMP SHOULD BE PERIODICALLY REMOVED IN ORDER TO MAINTAIN BMP EFFECTIVENESS. REFER TO CONSTRUCTION GENERAL PERMIT FOR SEDIMENT ACCUMULATION MAINTENANCE INTERVALS.
- 3. RILL, UNDERMINING, AND/OR GULLIES MAY BEGIN TO FORM FOLLOWING MAJOR STORM EVENTS WHERE RUNOFF HAS OVERTOPPED THE FIBER LOGS. THESE RILLS OR GULLIES SHOULD BE PROMPTLY REPAIRED



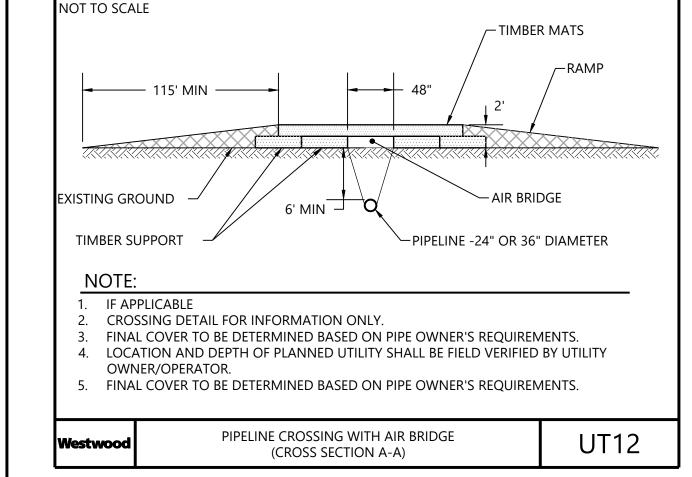




- REFER TO THE SPDES PERMIT FOR REQUIREMENTS. 2. POINT "A" MUST BE HIGHER THAN POINT "B" TO ENSURE THAT WATER FLOWS
- OVER THE DIKE AND NOT AROUND THE ENDS.

SW-06

FIBER LOGS - DITCH APPLICATION



# Westwood

# **Surveying & Engineering**

(214) 473-4640 2805 North Dallas Parkway, Suite #150 (888) 937-5150 Plano, TX 75093

Westwood Surveying and Engineering, P.C.

# EOR: Alejandro Alvarado, PE

### Hoffman Falls Wind LLC

### 90 State Street Albany, NY 12207

RE	EVISIONS:				
#	DATE	COMMENT	ВҮ	CHK	API
0	01/26/2024	ISSUE FOR PERMIT	HR	HR	AL
2	05/23/2024	NOIA Response	HR	HR	AL

# **Hoffman Falls Wind Project**

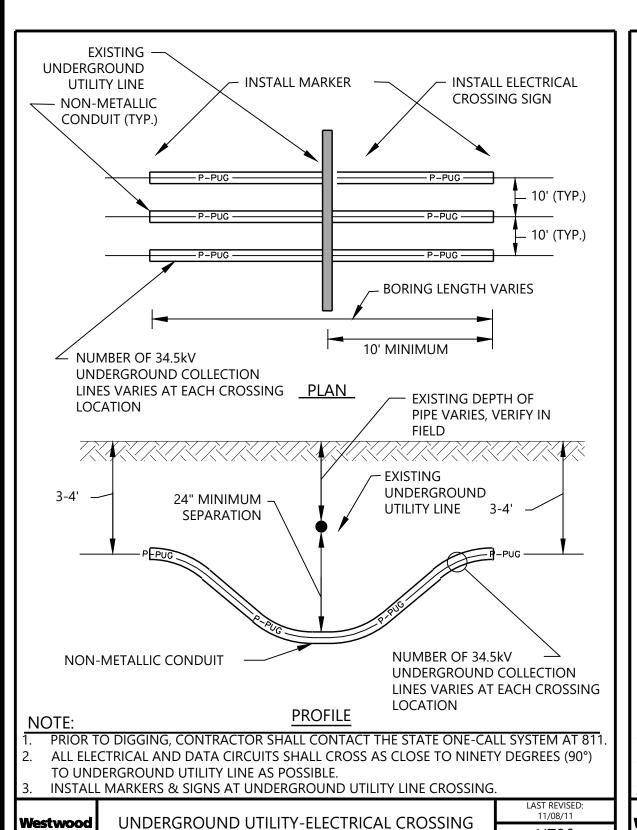
Madison County, New York

Construction Details -

# ISSUE FOR PERMIT

05/23/2024 DATE:

SHEET



16' ACCESS ROAD

→ DISTANCE VARIES -

**EXISTING** 

(TYP)

**POWER POLE** 

**PLAN VIEW** 

**EXISTING OVERHEAD** 

**PROFILE VIEW** 

2. CONTRACTOR SHALL NOTIFY OVERHEAD POWER OWNER PRIOR TO CONSTRUCTION

3. CROSSINGS SHOULD BE AT OR AS NEAR TO RIGHT ANGLES AS PRACTICAL.

6. MAINTAIN OSHA AND OTHER APPLICABLE CLEARANCES/PROTOCOL

4. DISTURBED GROUND NOT COVERED BY GRAVEL WILL BE RESTORED TO EXISTING

5. IN SOME CASES, PROPOSED ACCESS ROAD ELEVATION MAY VARY FROM EXISTING

ACCESS ROAD CROSSING OF EXISTING OVERHEAD POWER

EXISTING GROUND

PROPOSED ACCESS

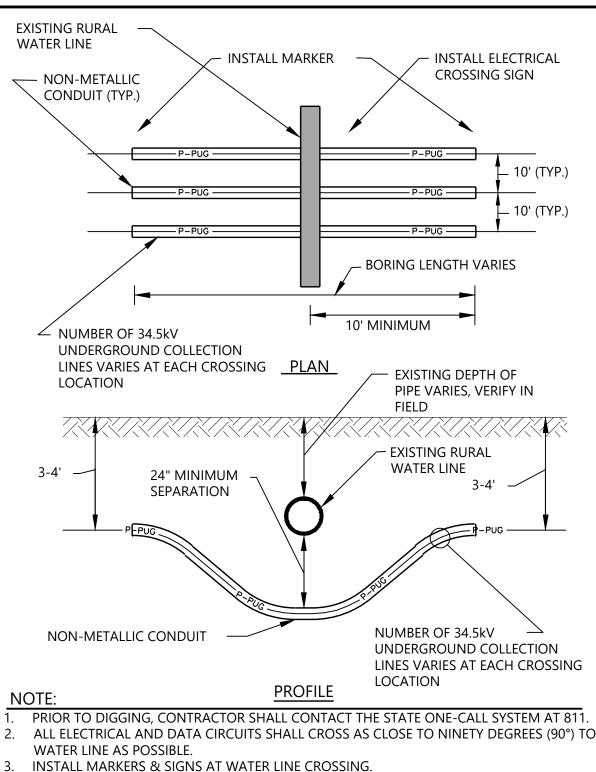
UT-04

POWER LINE(S)

POWER POLE CLEARANCE

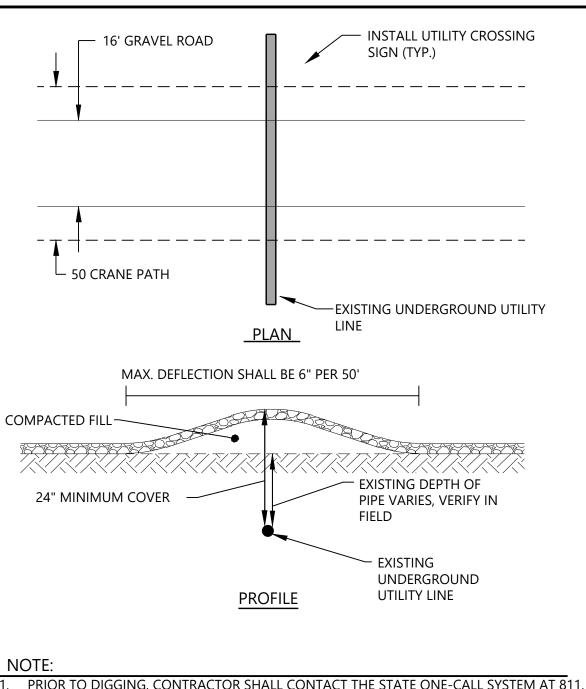
DISTANCE VARIES

GROUND ELEVATION.



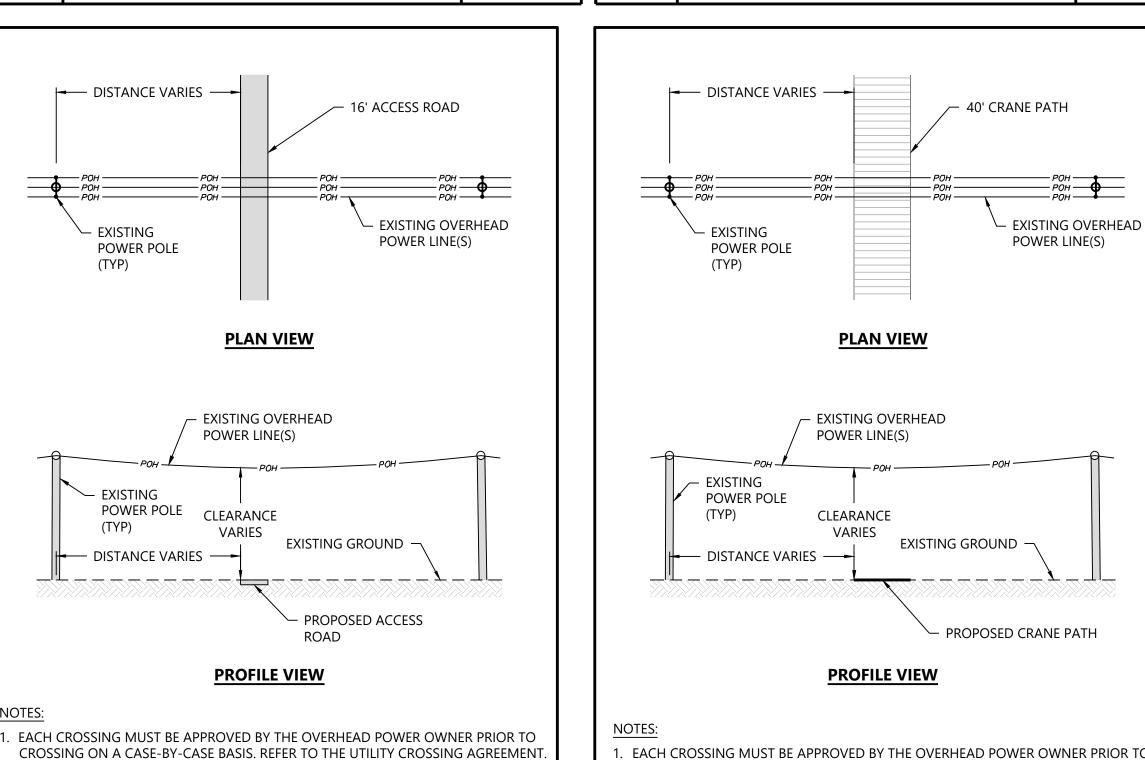
WATER LINE-ELECTRICAL CROSSING

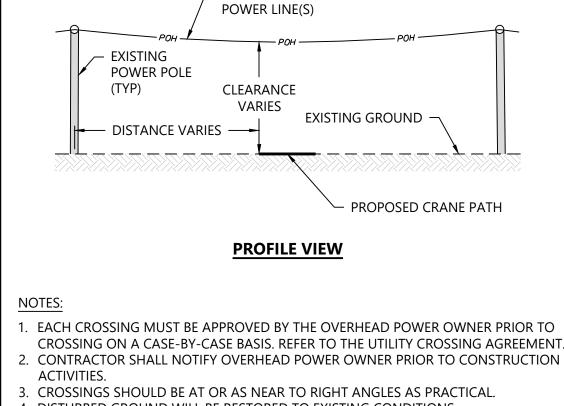
UT04



LINE AS POSSIBLE.

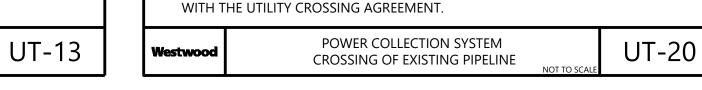
UNDERGROUND UTILITY-





CROSSING ON A CASE-BY-CASE BASIS. REFER TO THE UTILITY CROSSING AGREEMENT.

- 4. DISTURBED GROUND WILL BE RESTORED TO EXISTING CONDITIONS.
- 5. IN SOME CASES, PROPOSED CRANE PATH ELEVATION MAY VARY FROM EXISTING
- GROUND ELEVATION.
- 6. MAINTAIN OSHA AND OTHER APPLICABLE CLEARANCES/PROTOCOL.
- CRANE CROSSING OF EXISTING OVERHEAD POWER

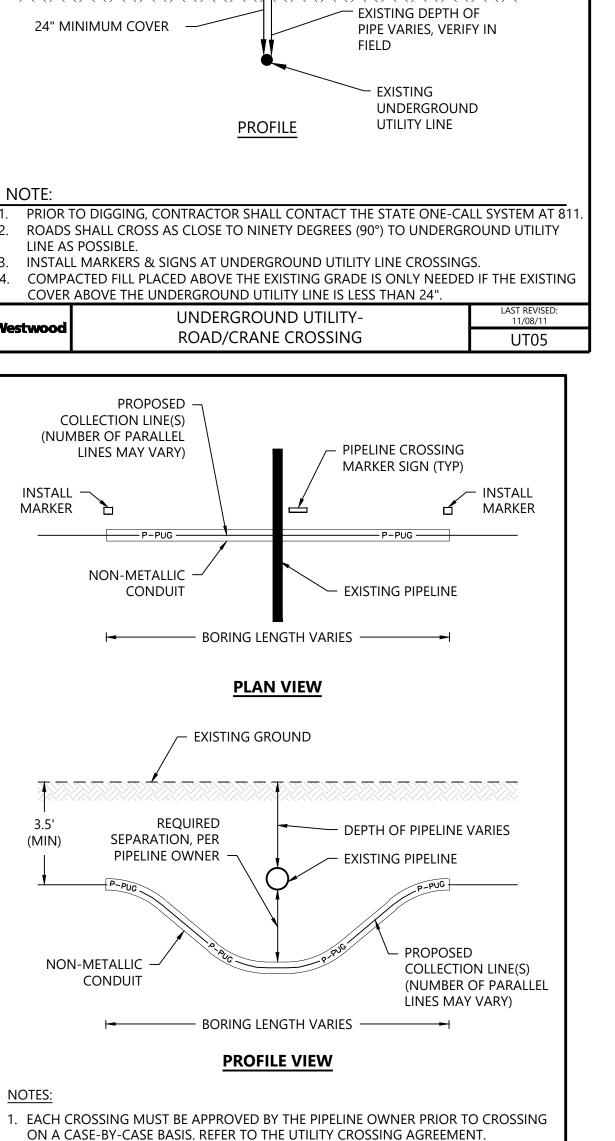


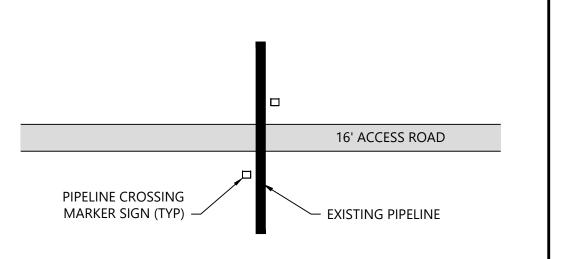
CONTRACTOR SHALL NOTIFY PIPELINE OWNER PRIOR TO CONSTRUCTION ACTIVITIES.

3. PRIOR TO ANY DIGGING, CONTRACTOR SHALL CONTACT THE STATE ONE-CALL

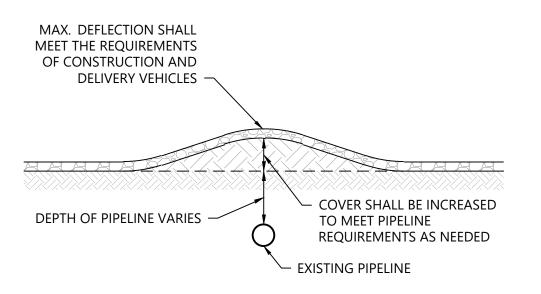
5. INSTALL CROSSING MARKER SIGNS AT PERMANENT CROSSINGS IN ACCORDANCE

4. CROSSINGS SHOULD BE AT OR AS NEAR TO RIGHT ANGLES AS PRACTICAL.





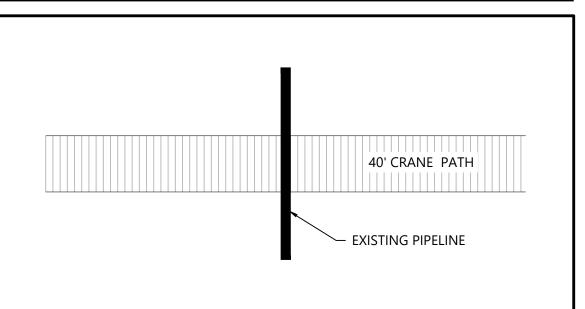
### **PLAN VIEW**



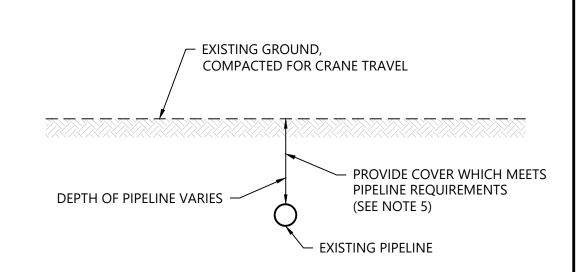
### **PROFILE VIEW**

- 1. EACH CROSSING MUST BE APPROVED BY THE PIPELINE OWNER PRIOR TO CROSSING ON A CASE-BY-CASE BASIS. REFER TO THE UTILITY CROSSING AGREEMENT.
- CONTRACTOR SHALL NOTIFY PIPELINE OWNER PRIOR TO CONSTRUCTION ACTIVITIES. 3. PRIOR TO ANY DIGGING, CONTRACTOR SHALL CONTACT THE STATE ONE-CALL SYSTEM AT 811.
- CROSSINGS SHOULD BE AT OR AS NEAR TO RIGHT ANGLES AS PRACTICAL.
- EARTH COVER PROTECTION FOR EXISTING PIPELINE SHALL BE USED WHERE THE COVER OVER THE EXISTING PIPELINE IS LESS THAN REQUIRED IN THE UTILITY CROSSING AGREEMENT.
- 6. INSTALL CROSSING MARKER SIGNS AT PERMANENT CROSSINGS IN ACCORDANCE WITH THE UTILITY CROSSING AGREEMENT.

ACCESS ROAD CROSSING OF EXISTING PIPELINE



### **PLAN VIEW**



### **PROFILE VIEW**

- EACH CROSSING MUST BE APPROVED BY THE PIPELINE OWNER PRIOR TO CROSSING ON A CASE-BY-CASE BASIS. REFER TO THE UTILITY CROSSING AGREEMENT.
- . CONTRACTOR SHALL NOTIFY PIPELINE OWNER PRIOR TO CONSTRUCTION ACTIVITIES. 3. PRIOR TO ANY DIGGING, CONTRACTOR SHALL CONTACT THE STATE ONE-CALL SYSTEM AT 811.
- 4. CROSSINGS SHOULD BE AT OR AS NEAR TO RIGHT ANGLES AS PRACTICAL. 5. MATTING OR EARTHEN COVER MAY BE NEEDED TO ACHIEVE NECESSARY SUPPORT FOR CROSSINGS. THIS WILL BE AGREED UPON BY THE CONTRACTOR AND PIPELINE OWNER ON A CASE-BY-CASE BASIS.

Westwood CRANE CROSSING OF EXISTING PIPELINE	UT-10
--	-------

# Westwood **Surveying & Engineering**

Westwood Surveying and Engineering, P.C.

Phone (952) 937-5150 12701 Whitewater Drive, Suite #300 (952) 937-5822 Minnetonka, MN 55343 (888) 937-5150 ww-pc.com

EOR: Alejandro Alvarado, PE

Hoffman Falls Wind LLC

90 State Street Albany, NY 12207

EVISIONS:				
DATE	COMMENT	BY	CHK	ΑF
01/26/2024	ISSUE FOR PERMIT	HR	HR	Α

# **Hoffman Falls Wind Project**

Madison County, New York

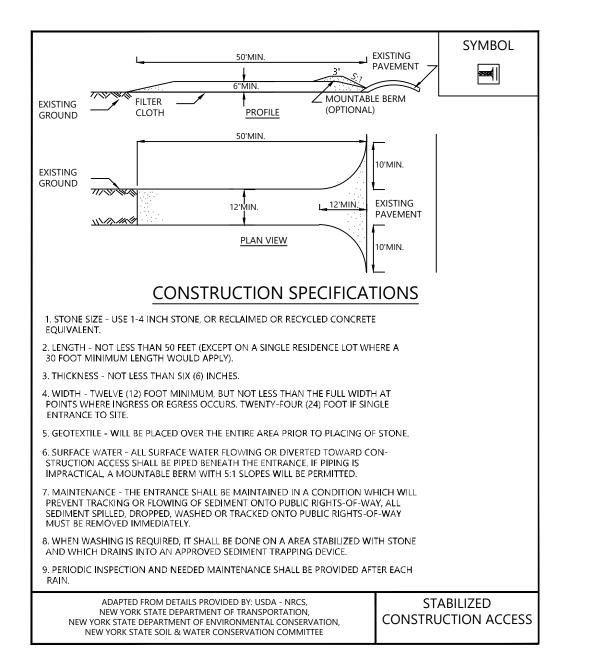
Construction Details -

**ISSUE FOR PERMIT** 

01/26/2024 DATE:

SHEET

#### FIGURE 2.1 STABILIZED CONSTRUCTION ACCESS



#### FIGURE 2.2 TEMPORARY ACCESS BRIDGE

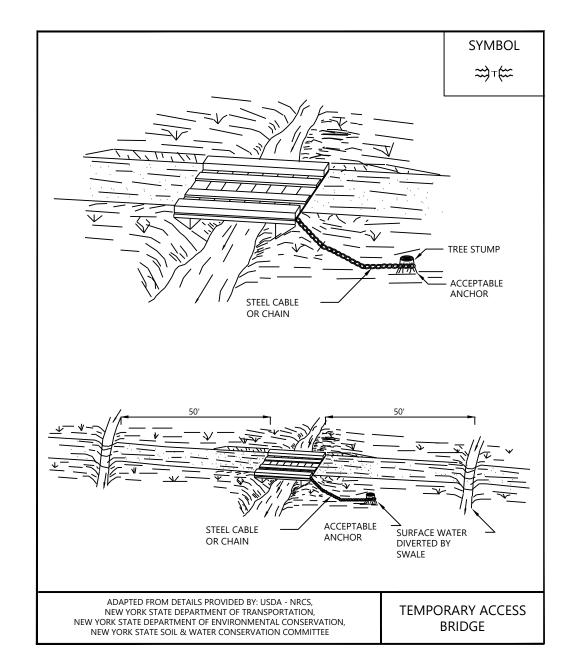
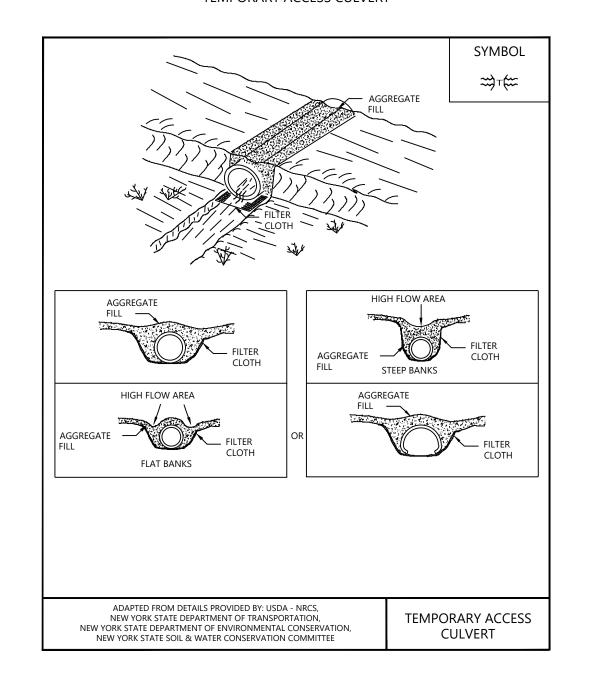


FIGURE 2.3 TEMPORARY ACCESS CULVERT



EOR: Alejandro Alvarado, PE

**Surveying & Engineering** 

Phone (952) 937-5150 12701 Whitewater Drive, Suite #300 Fax (952) 937-5822 Minnetonka, MN 55343 Toll Free (888) 937-5150 ww-pc.com

Westwood Surveying and Engineering, P.C.

Hoffman Falls Wind LLC

90 State Street Albany, NY 12207

		,.			
RE\	/ISIONS:				
#	DATE	COMMENT	BY	CHK	Α
0 (	01/26/2024	ISSUE FOR PERMIT	HR	HR	ļ
					_

#### FIGURE 3.1 STONE CHECK DAM DETAIL

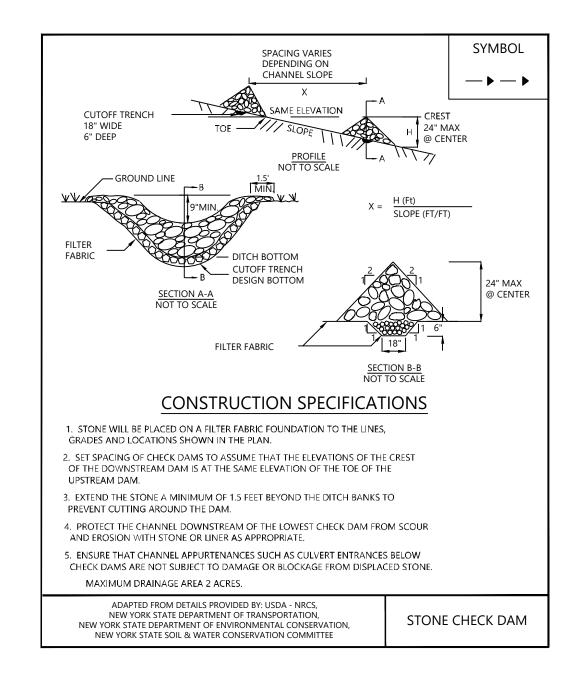


FIGURE 3.2 CONSTRUCTION DITCH DETAIL

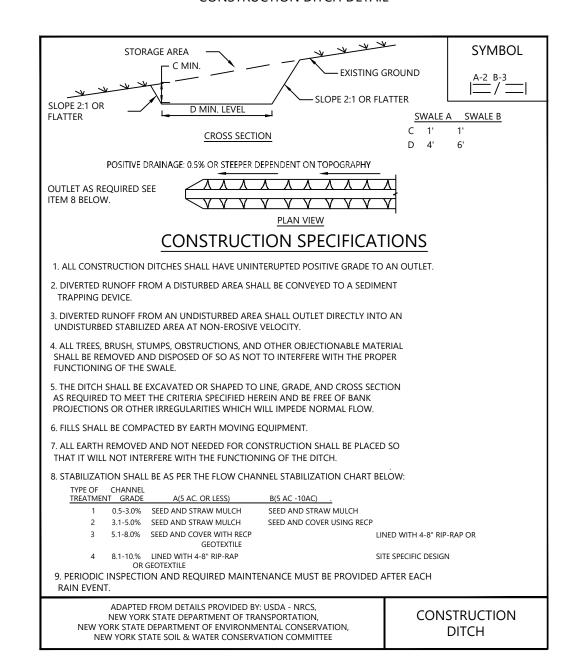
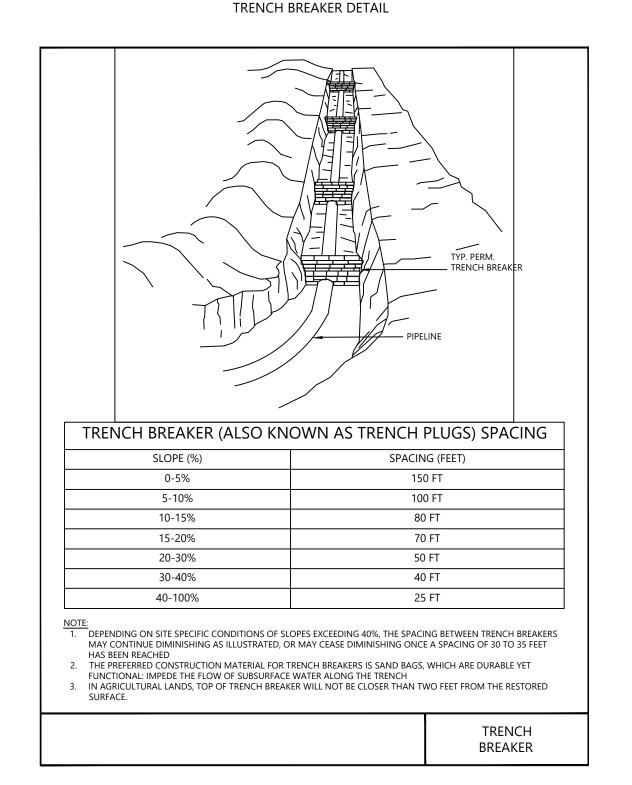


FIGURE 12



# Hoffman Falls Wind Project

Madison County, New York

Construction Details -

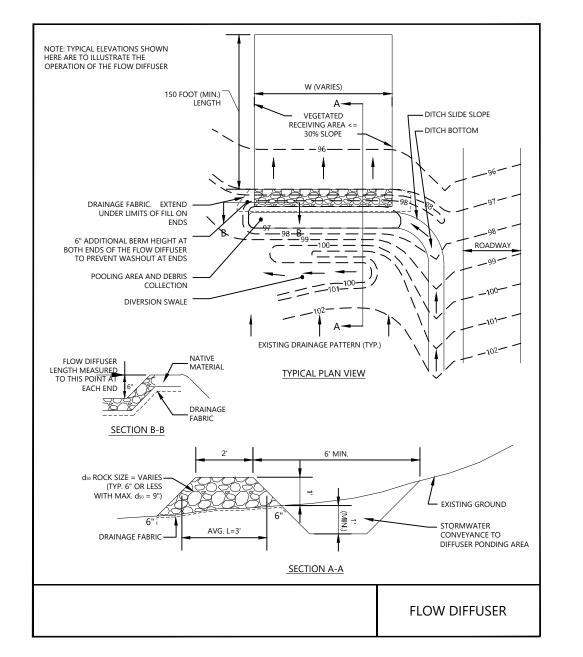
ISSUE FOR PERMIT

DATE: 01/26/2024

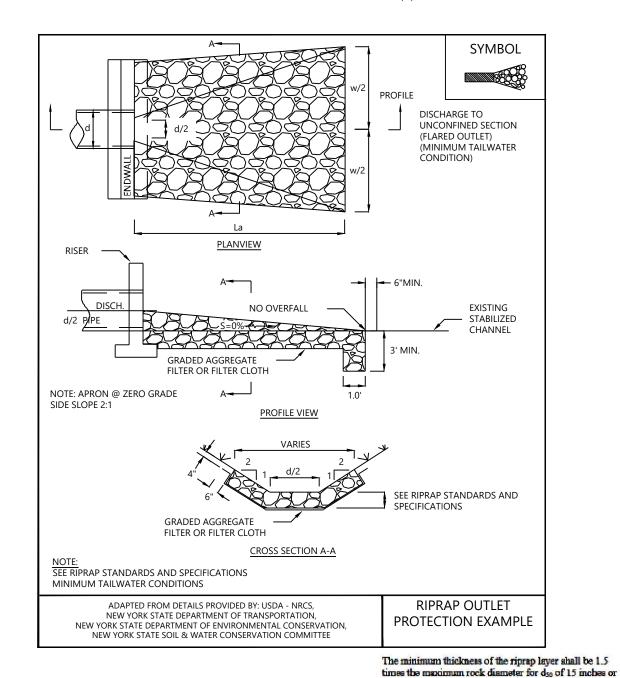
EET: **(713** 

3 (

#### FIGURE 3.6 FLOW DIFFUSER DETAIL



# FIGURE 3.18 RIPRAP OUTLET PROTECTION DETAIL (1)



S	SCHEDULE FOR STORM DRAIN								
CULVERT DIAMETER (D)	LENGTH (L)	WIDTH (W)	STONE <sup>ds</sup> 50						
12"	8'	12'	6"						
18"	10'	12'	6"						
24"	12'	14'	6"						
30"	16'	20'	12"						
36"	20'	23'	12"						
			•						

FIGURE 3.19
RIPRAP OUTLET PROTECTION DETAIL (2)

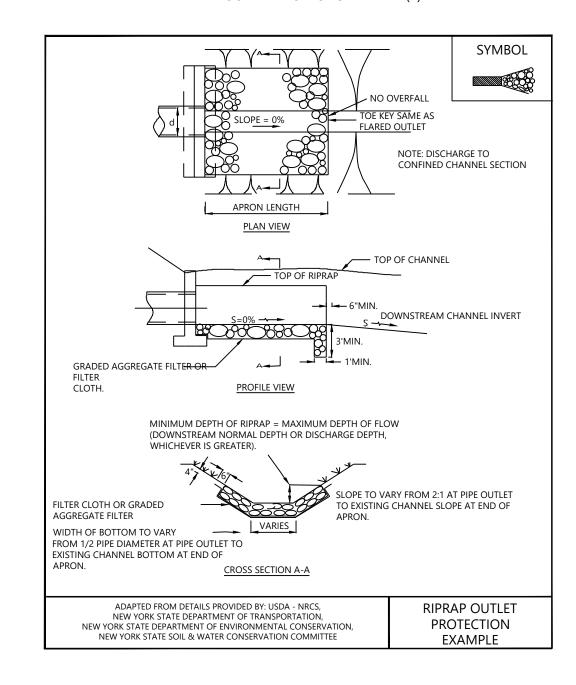


FIGURE 3.20 RIPRAP OUTLET PROTECTION DETAIL (3)

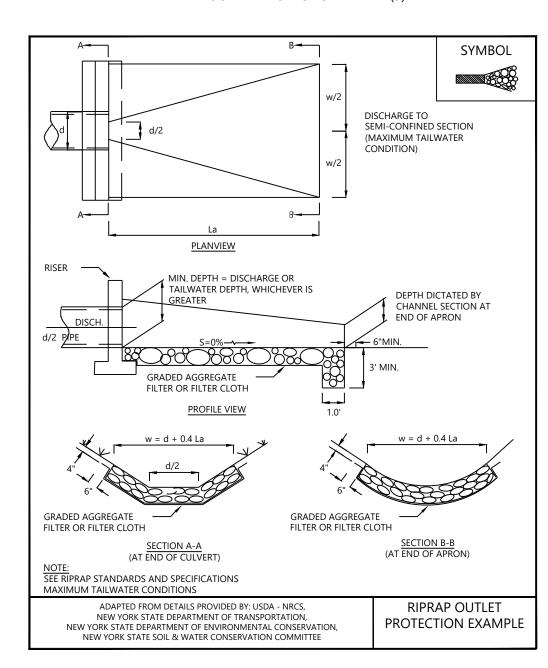


FIGURE 3.22 WATER BAR DETAIL

less; and 1.2 times the maximum rock size for d<sub>10</sub> greater than 15 inches. The following chart lists some examples:

6

14

18

22

32 36

15

14

32

20

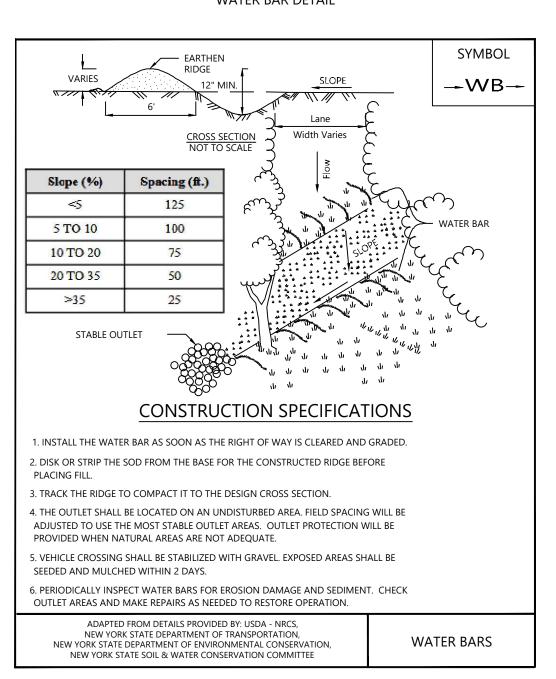
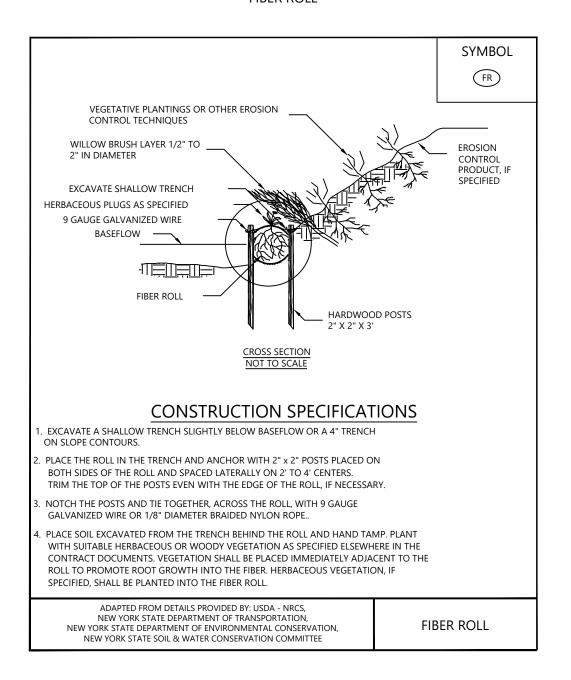


FIGURE 4.8 FIBER ROLL



# EOR: Alejandro Alvarado, PE PREPARED FOR:

**Surveying & Engineering** 

Phone (952) 937-5150 12701 Whitewater Drive, Suite #300 Fax (952) 937-5822 Minnetonka, MN 55343 Toll Free (888) 937-5150 ww-pc.com

Westwood

Westwood Surveying and Engineering, P.C.

### Hoffman Falls Wind LLC

#### 90 State Street Albany, NY 12207

VISIONS:				
DATE	COMMENT	BY	CHK	Α
01/26/2024	ISSUE FOR PERMIT	HR	HR	A

# Hoffman Falls Wind Project

Madison County, New York

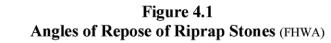
Construction Details - 15

# ISSUE FOR PERMIT

DATE: 01/26/2024

C714

0



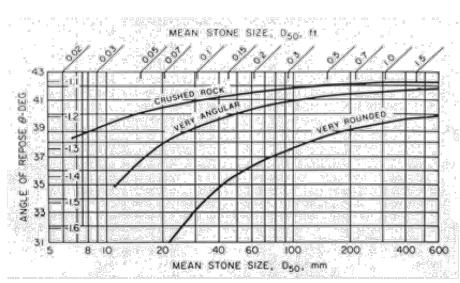
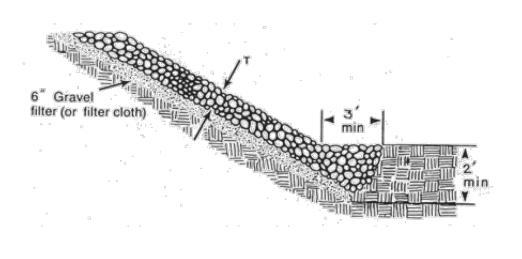


Figure 4.2 **Typical Riprap Slope Protection Detail** 



November 2016

FIGURE 4.3 RIPRAP CHANNEL STABILIZATION

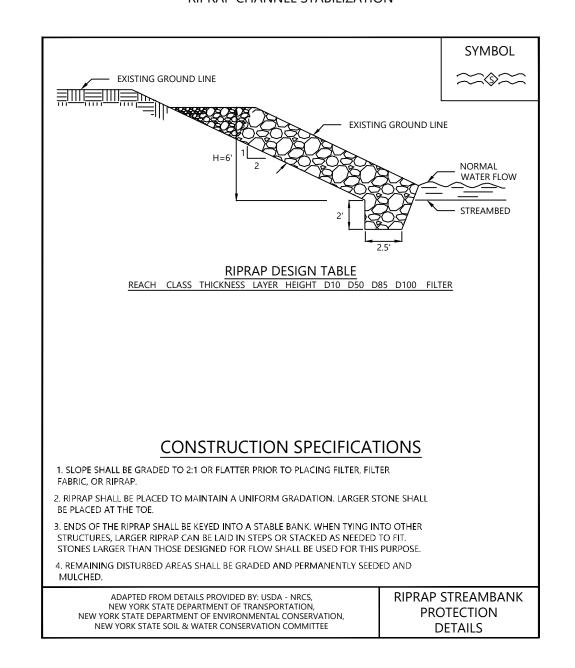
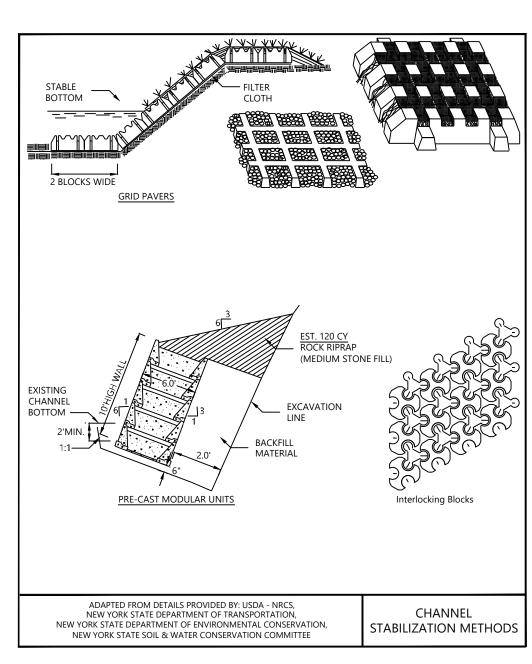


FIGURE 4.4 CHANNEL STABILIZATION METHODS





EOR: Alejandro Alvarado, PE

Westwood

Westwood Surveying and Engineering, P.C.

**Surveying & Engineering** 

Phone (952) 937-5150 12701 Whitewater Drive, Suite #300 Fax (952) 937-5822 Minnetonka, MN 55343 Toll Free (888) 937-5150 ww-pc.com

FIGURE 4.9 TYPICAL SECTION OF SERRATED CUT SLOPE

New York State Standards and Specifications

For Erosion and Sediment Control

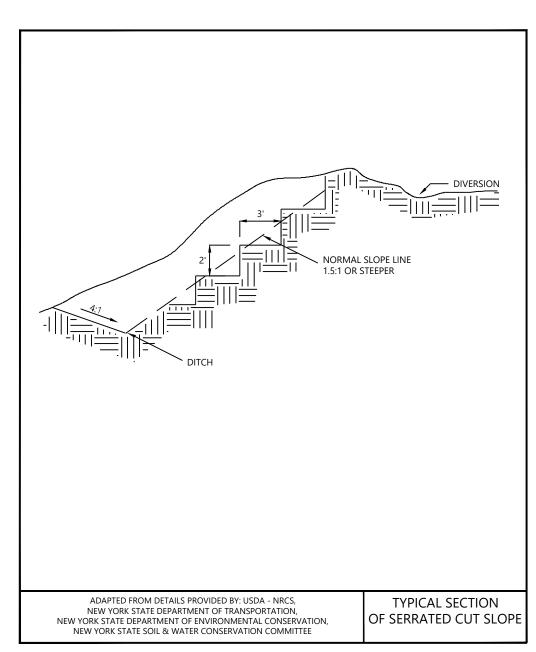


FIGURE 4.10 LANDGRADING

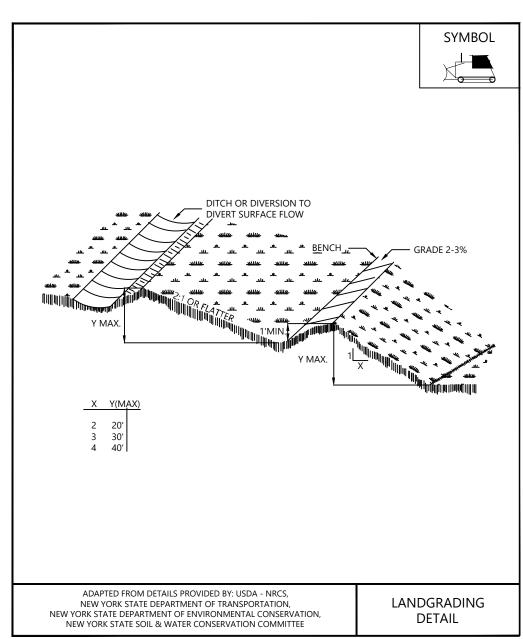
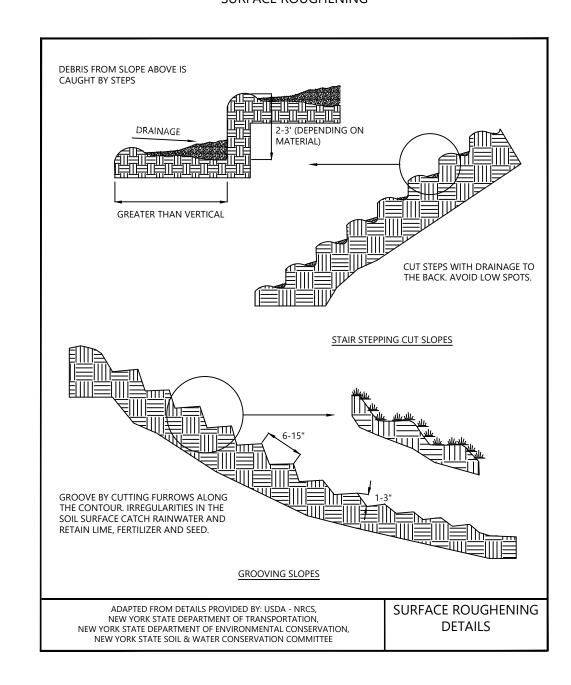


FIGURE 4.11 LANDGRADING - CONSTRUCTION SPECIFICATIONS

#### **CONSTRUCTION SPECIFICATIONS** . ALL GRADED OR DISTURBED AREAS INCLUDING SLOPES SHALL BE PROTECTED DURING CLEARING AND CONSTRUCTION IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN UNTIL THEY ARE PERMANENTLY STABILIZED. 2. ALL SEDIMENT CONTROL PRACTICES AND MEASURES SHALL BE CONSTRUCTED, APPLIED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN. 3. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED IN AMOUNT NECESSARY TO COMPLETE FINISHED GRADING OF ALL EXPOSED AREAS. 4. AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS OR OTHER OBJECTIONABLE MATERIAL. 5. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF FOUR INCHES PRIOR TO PLACEMENT OF TOPSOIL. 6. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES. 7. ALL FILL SHALL BE PLACED AND COMPACTED IN LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS. 8. EXCEPT FOR APPROVED LANDFILLS, FILL MATERIAL SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OTHER OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF 9. FROZEN MATERIALS OR SOFT, MUCKY OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED IN FILLS. 10. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES. 11. ALL BENCHES SHALL BE KEPT FREE OF SEDIMENT DURING ALL PHASES OF 2. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD. 13. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING 14. STOCKPILES, BORROW AREAS AND SPOIL AREAS SHALL BE SHOWN ON THE PLANS AND SHALL BE SUBJECT TO THE PROVISIONS OF THIS STANDARD AND SPECIFICATION. ADAPTED FROM DETAILS PROVIDED BY: USDA - NRCS, LANDGRADING NEW YORK STATE DEPARTMENT OF TRANSPORTATION. NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE SPECIFICATIONS

FIGURE 4.18 SURFACE ROUGHENING



# **Hoffman Falls Wind Project**

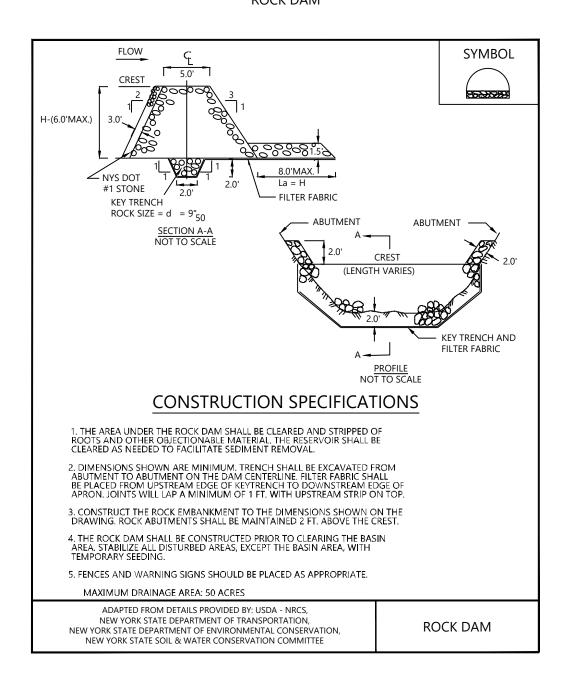
Madison County, New York

Construction Details -

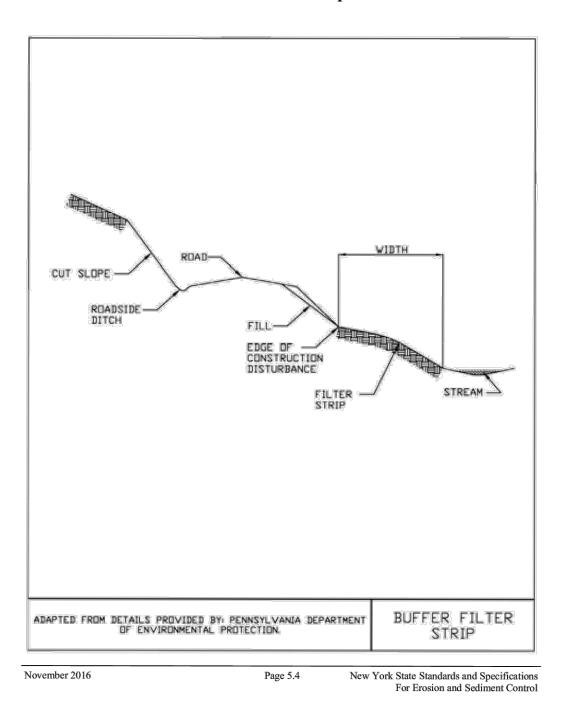
# ISSUE FOR PERMIT

01/26/2024 DATE:

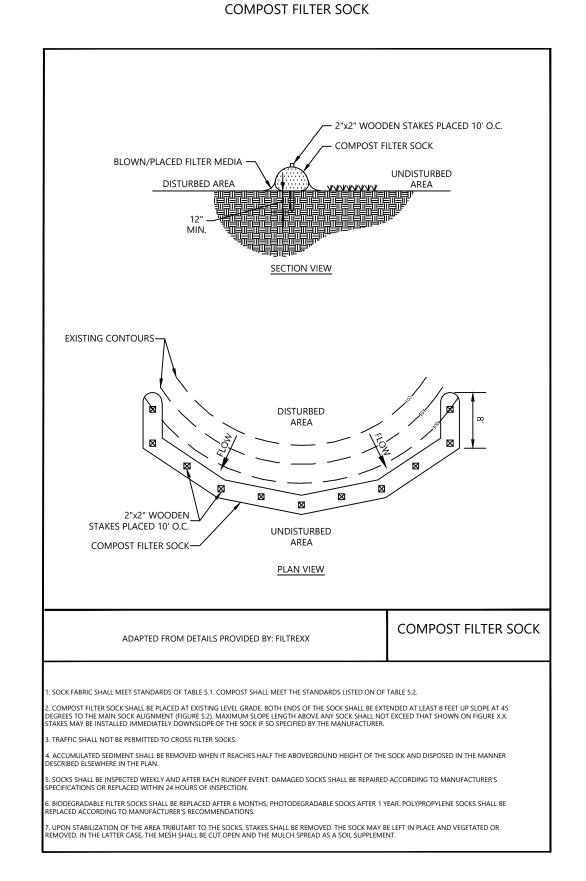
#### FIGURE 5.7 ROCK DAM



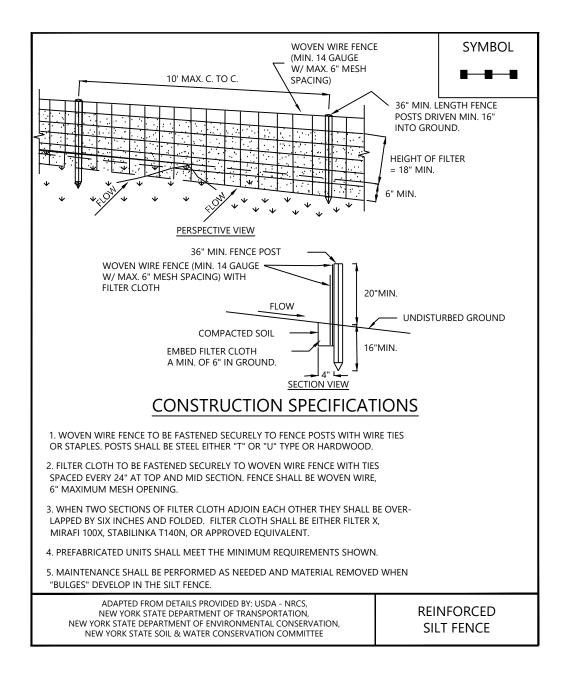
#### Figure 5.1 Buffer Filter Strip



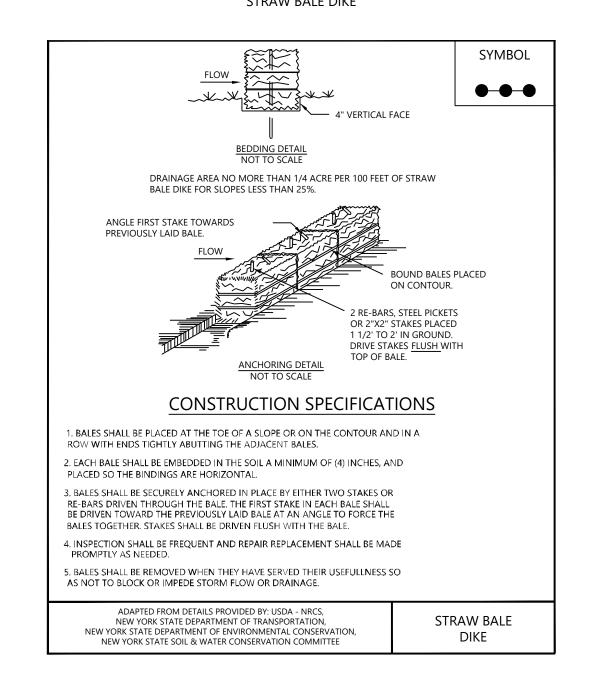
# FIGURE 5.2



#### FIGURE 5.30 REINFORCED SILT FENCE



### FIGURE 5.34 STRAW BALE DIKE



# Westwood

# Surveying & Engineering

Phone (952) 937-5150 12701 Whitewater Drive, Suite #300
Fax (952) 937-5822 Minnetonka, MN 55343
Toll Free (888) 937-5150 ww-pc.com
Westwood Surveying and Engineering, P.C.

# EOR: Alejandro Alvarado, PE

PREPARED FOR

# Hoffman Falls Wind LLC

90 State Street Albany, NY 12207

VISIONS:				
DATE	COMMENT	BY	CHK	ΑF
01/26/2024	ISSUE FOR PERMIT	HR	HR	Α

# Hoffman Falls Wind Project

Madison County, New York

Construction Details - 17

# ISSUE FOR PERMIT

DATE: 01/26/2024

HEET: C716

2716

# Westwood

**Surveying & Engineering** 

Phone (214) 473-4640 2805 North Dallas Parkway, Suite #150 Toll Free (888) 937-5150 Plano, TX 75093 ww-pc.com

Westwood Surveying and Engineering, P.C.

EOR: Alejandro Alvarado, PE

Hoffman Falls Wind LLC

90 State Street Albany, NY 12207

_					
RE	VISIONS:				
#	DATE	COMMENT	ВҮ	СНК	ΑF
0	01/26/2024	ISSUE FOR PERMIT	HR	HR	Α
2	05/23/2024	NOIA Response	HR	HR	Α
3	08/22/2024	T1,T2,T11,T15 TURBINE SHIFT	HR	HR	Α

#### **TABLE 1: TURBINE TABLE**

NEW YORK CENTRAL NSRS11 (2011) SPCS US FEET

	NEW YORK CENTRAL NSRS11 (2011) SPCS US FEET								
~	Name	Northing	Easting	Latitude	Longitude				
(	T-1	1075448.478	1037003.101	42.948771	-75.773577				
	T-2	1073622.95	1038267.854	42.943729	-75.768919				
	T-3	1071382.778	1040557.6	42.5615077	-75.4537621				
	T-4	1069873.342	1041154.363	42.560011	-75.4529798				
	T-5	1079987.3	1044217.008	42.5739705	-75.4447278				
	T-6	1078346.45	1044405.838	42.5723481	-75.4444959				
	T-7	1075894.323	1044637.994	42.5659239	-75.4442166				
	T-8	1077144.608	1045948.627	42.5711458	-75.4424375				
	T-9	1078872.407	1047363.048	42.5728382	-75.4405122				
_	I-10	1075566.674	1047316.099	42.5655737	-75.4406202				
	Ţ-11	1070459,763	1049493.937	42.934744	-75.727117				
	T-12	1072095.602	1050573.951	42.5621127	-75.4322878				
	T-13	1064761.263	1056099.017	42.5508123	-75.4209638				
	T-14	1071535.532	1056316.83	42.5615008	-75.4205756				
(	T-15	1069966.805	1056846.108	42.933183	-75,699684				
	T-16	1062208.512	1060580.833	42.5442442	-75.4109775				
	T-17	1066213.119	1062943.895	42.5521744	-75.4037444				
	T-18	1064748.722	1063523.552	42.5507219	-75.4029866				
	T-19	1066727.375	1069557.386	42.552611	-75.3908488				
	T-20	1062811.835	1070184.083	42.5447369	-75.3900649				
	T-21	1064860.755	1070170.086	42.5507607	-75.3900532				
	T-22	1063842.787	1073950.768	42.5457136	-75.380988				
	T-23	1066259.853	1074357.121	42.5520963	-75.3804054				
	T-24	1071828.276	1060792.382	42.5617432	-75.4105552				
	MET-1	1069794.332	1055737.429	42.9528583	-75.752008				
	ADLS-1	1076994.162	1042762.918	42.932742	-75.703831				

#### TABLE 2: DRAINAGE CROSSING

Crossings ID	Storm Event	Culvert Size	Water Crossing Type				
			termined in coordinatio				
DC01	100		n accordance with the 1				
D.CO.2	100	1-36"; 2-24"; 3-18"	900-6.4(r)(6)				
DC02	100	, , , , , , , , , , , , , , , , , , ,	STANDARD DUTY termined in coordinatio				
DC03	100		termined in coordination: the USACE				
DC04	100	with the USACE and i	termined in coordinatio n accordance with the 1 900-6.4(r)(6)				
DC05	100	with the USACE and i	termined in coordinatio n accordance with the 1 900-6.4(r)(6)				
DC06	100	Culvert Size to be determined in coordinatio with the USACE					
DC07	100	Culvert Size to be determined in coordination with the USACE					
*DC08	100	Culvert Size to be determined in coordination with the USACE and in accordance with the 19 NYCRR §900-6.4(r)(6)					
DC09	100	Culvert Size to be determined in coordinate with the USACE and in accordance with the NYCRR §900-6.4(r)(6)					
DC10	100	1-48"; 2-36"; 3-30"	STANDARD DUTY				
DC11	100	1-42"; 2-36"; 3-30"	STANDARD DUTY				
DC12	100		termined in coordinatio				
DC13	100	Culvert Size to be de	termined in coordinatio the USACE				
DC14	100	Culvert Size to be dewith the USACE and i	termined in coordination accordance with the 1900-6.4(r)(6)				
DC15	100	1-30"; 2-24"; 3-18"	HEAVY DUTY				
DC16	100		termined in coordinatio :he USACE				
DC17	100	1-18"	STANDARD DUTY				
**DC18	100	-	STANDARD DUTY				
**DC19	100	1-24"; 2-18"	STANDARD DUTY				
**DC20	100	1-30"; 2-24"; 3-18"	STANDARD DUTY				
**DC21	100	1-36"; 2-30"; 3-24"	STANDARD DUTY				
DC22	100	1-18"	STANDARD DUTY				
DC22	100	1-54"; 2-42"	STANDARD DUTY				
DC24	100	1-36"; 2-24"	HEAVY DUTY				
**DC25	100	- STANDARD					
DC25	50	1-48"; 2-36"; 3-30" STANDARD DUT					
DC27	100	Culvert Size to be de with the USACE and i	termined in coordination accordance with the 1900-6.4(r)(6)				
DC28	100	Culvert Size to be determined in coordination with the USACE and in accordance with the 19 NYCRR §900-6.4(r)(6)					

**TABLE 3: ENTRANCE CROSSING** 

Entrance ID

EC02

EC04

EC06

EC07

EC12

EC15

EC16

EC17

EC18

Storm Event

100

100

100

100

100

100

100

100

100

100

Culvert Size

1-18"

1-30"; 2-24"; 3-18"

1-36"; 2-24"

1-18"

1-24"; 2-18"

1-18"

1-18"

1-18"

1-18" Culvert Size to be determined in

coordination with the USACE

## \*INDICATES A STREAM CROSSING THAT WILL NEED BOTH A CULVERT AND HIGH WATER CROSSING

	TABLE 4: STORMWATER BASIN TABLE														
BASIN ID	PLAN SHEET	DRAINAGE AREA (AC)	REQUIRED VOLUME (AC-FT)	PROVIDED VOLUME (AC-FT)	BERM WIDTH (FT)	TOP OF BERM ELEVATION (FT)	BASIN BOTTOM ELEVATION (FT)	EOF ELEVATION (FT)	EOF WIDTH (FT)	EOF DEPTH (FT)	OUTLET CULVERT SIZE (IN)	OUTLET CULVERT ELEVATION (FT)	SKIMMER SIZE (IN)	RISER SIZE (IN)	RISER ELEVATION (FT)
1	EC301	TBD	0.52	0.52	5	1665.00	1662.00	1664.40	5	2.2	NA	NA	NA	NA	NA
2	EC310	TBD	0.10	0.16	5	1623.70	1618.90	1623.20	5	1.5	12"	1621.00	NA	NA	NA
3	EC332	TBD	0.33	0.33	5	1646.00	1644.50	1645.50	5	1	NA	NA	NA	NA	NA

# **Hoffman Falls** Wind Project Madison County, New York

**Construction Tables** 

**ISSUE FOR PERMIT** 

08/22/2024

#### **GENERAL NOTES**

THE PLANIMETRIC FEATURES SHOWN ON THE PLANS ARE PROVIDED BY HOFFMAN FALLS WIND LLC BASED ON AERIAL PHOTOGRAPHY. GROUND SURFACE CONTOURS AND ELEVATIONS ARE PROVIDED BY HOFFMAN FALLS WIND LLC BASED ON AERIAL PHOTOGRAPHY, NOT ACTUAL FIELD SURVEYING. AS SUCH. THE ACCURACY OF THE ELEVATIONS AND CONTOURS IS NOT AS HIGH AS INFORMATION GATHERED USING CONVENTIONAL FIELD SURVEYING PROCEDURES. THE CONTRACTOR MAY FIND THAT GROUND ELEVATIONS DETERMINED DURING FIELD VARY FROM THE GROUND ELEVATIONS SHOWN ON THE DRAWINGS.

CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR

- WHERE MAJOR DISCREPANCIES ARE FOUND, THE OWNER AND ENGINEER SHALL BE CONTACTED AND NOTIFIED. PROPERTY LINES, ROW LINES, AND EASEMENTS ARE BASED ON ALTA SURVEY PREPARED BY WESTWOOD PROFESSIONAL SERVICES. . WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE OWNER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE
- AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. 4. THE CONTRACTOR SHALL NOTIFY STATE UTILITY LOCATE SERVICE (DIG SAFELY NEW YORK 811) AT LEAST 48 HOURS BEFORE EXCAVATION ACTIVITIES
- 5. UTILITY LOCATIONS SHOWN ON THE PLANS ARE BASED ON ALTA SURVEY PREPARED BY WESTWOOD PROFESSIONAL SERVICES. CONTRACTOR AND OWNER ARE RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION. IF UTILITIES ARE DETERMINED TO EXIST THAT ARE NOT SHOWN ON THE PLANS THE ENGINEER SHALL BE CONTACTED IMMEDIATELY. THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES AND RELOCATE AS REQUIRED IN COORDINATION WITH UTILITY AND LANDOWNER.
- 6. THE CONTRACTOR SHALL NOTIFY AND COORDINATE ALL WORK WITH THE UTILITY COMPANIES.
- 7. UTILITY CROSSING REQUIREMENTS HAVE NOT BEEN COMPLETED FOR THE PROJECT. CONTRACTOR SHALL VERIFY CROSSING DESIGNS WITH ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION.
- 8. CONTRACTOR TO VERIFY EXISTING CONDITIONS SHOWN ON THE PLANS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER IF THERE ARE ANY DISCREPANCIES
- 9. ANY FACILITIES REMOVED TO ALLOW FOR CONSTRUCTION (MAILBOXES, SIGNS, FENCES, LIGHTING, ETC.) SHALL BE REPLACED BY THE CONTRACTOR IN A CONDITION AS GOOD AS EXISTING
- 10. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING DRAINAGE THROUGHOUT THE CONSTRUCTION OF THIS PROJECT. CONSTRUCTION ACTIVITIES SHALL NOT BLOCK THE NATURAL OR MANMADE CREEKS OR DRAINAGE SWALES CAUSING RAINWATER TO POND. DEPENDING ON FIELD CONDITIONS, ADDITIONAL CULVERTS IN EXCESS OF THOSE ON THE PLANS MAY BE REQUIRED
- 11. IF LOCALIZED LOW POINTS ARE ENCOUNTERED DURING TOPSOIL STRIPPING, MASSAGE SURROUNDING AREA TO MAINTAIN POSITIVE DIRECTION OF DRAINAGE TO MINIMIZE PONDING OF STORMWATER DURING RAINFALL EVENTS.
- 12. ROAD MAINTENANCE IS EXPECTED OVER THE LIFE OF THE FACILITY. ROADS SHALL BE MAINTAINED BY THE PROJECT OWNER. MAINTENANCE THROUGH CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 13. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL CLEAN THE LOCATION OF THE WORK AND ALL GROUND IN THE PROJECT AREA OCCUPIED BY THE CONTRACTOR DURING THE PROJECT. THE CONTRACTOR SHALL REMOVE ALL RUBBISH, EXCESS MATERIALS, TEMPORARY STRUCTURES, AND EQUIPMENT, LEAVING THE LOCATION OF THE WORK CLEANED TO THE SATISFACTION OF THE OWNER AND ENGINEER.
- 14. HAUL ROUTES SHOWN ON THE PLANS ARE PROVIDED BY HOFFMAN FALLS WIND LLC. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM THE SUITABILITY OF THIS ROUTE, INCLUDING EXISTING BRIDGE AND CULVERT STRUCTURES, FOR CONSTRUCTION TRAFFIC
- 15. CONTRACTOR SHALL MINIMIZE DISTURBANCE DURING CULVERT REPLACEMENT ACTIVITIES AND REVIEW ENVIRONMENTAL REPORTS PRIOR TO WORK IN STREAM/WETLAND AREAS.
- 16. WHILE BUILDING THE ROADS AND EXCAVATING THE TURBINE FOUNDATIONS, EXCESS SOIL WILL RESULT. THE CONTRACTOR SHALL DISPOSE OF THIS EXCESS SOIL IN AN APPROVED MANNER. NO TOPSOIL WILL BE ALLOWED TO LEAVE THE PROPERTY FROM WHICH IT WAS DUG WITHOUT APPROVAL OF HOFFMAN FALLS WIND LLC. THE LANDOWNER, AND THE ENVIRONMENTAL MONITOR. EXCESS TOPSOIL SHALL BE DISTRIBUTED INTO A THIN LAYER ON LAND IMMEDIATELY ADJACENT TO WHERE THE TOPSOIL ORIGINATED. WHILE DOING SO THE CONTRACTOR SHALL AVOID CAUSING RIDGES OR MOUNDS THAT WOULD MAKE IT DIFFICULT FOR STORM WATER RUNOFF TO DRAIN. THE FINAL SURFACE OF THE DISTURBED TOPSOIL SHALL BE SMOOTH AND FOLLOW THE NATURAL CONTOUR OF THE LAND.
- 17. FINALIZE GRADING AROUND THE BASE OF TURBINES IN ACCORDANCE WITH DETAIL TS03-A/TS03-B.
- 18. GRADE ALL PROPOSED ROADS TO A MAXIMUM SLOPE OF 12%. IF 12% SLOPE CANNOT BE ACHIEVED, THE CONTRACTOR MAY UTILIZE ASSIST VEHICLES FOR THE PURPOSE OF DELIVERIES U TO 16% AS PER VESTAS SPEC.
- 19. TEMPORARY INTERSECTION WIDENINGS SHALL, UPON COMPLETION OF ALL PROJECT CONSTRUCTION ACTIVITIES OR UPON NOTIFICATION TO THE CONTRACTOR BY THE ENGINEER, BE REMOVED AND RESTORED TO ITS ORIGINAL LINES AND GRADES AND STABILIZED/SEEDED IN ACCORDANCE WITH THE
- 20. CRANE PATHS ARE SHOWN ON THE CONSTRUCTION PLANS. IF THE CONTRACTOR PROPOSES ALTERNATE CRANE PATHS, THEY SHALL MAKE SURE THAT AVOIDANCE AREAS ARE NOT DISTURBED. FINAL CRANE PATH ALIGNMENTS SHALL BE DETERMINED BY THE CONTRACTOR BASED UPON FIELD CONDITIONS WITHIN THE CONSTRUCTION EASEMENTS, AND THE PROJECT BOUNDARY. ALL PROPOSED CRANE PATH MODIFICATIONS MUST BE APPROVED BY HOFFMAN FALLS WIND LLC AND THE ENVIRONMENTAL MONITOR
- 21. TURBINE SETBACKS ARE NOT IDENTIFIED ON THE CONSTRUCTION PLANS. IT SHALL BE THE RESPONSIBILITY OF THE OWNER TO ENSURE THAT ALL TURBINE SETBACKS MEET PROJECT REQUIREMENTS
- 22. THE CONTRACTOR SHALL BE FAMILIAR WITH THE REPORTS AND SHALL REVIEW ALL RECOMMENDATIONS.
- 23. REFER TO ELECTRICAL PLANS FOR LOCATIONS, CONSTRUCTION DETAILS AND SPECIFICATIONS FOR THE UNDERGROUND/OVERHEAD POWER COLLECTION SYSTEM, CONTROL BUILDING, SUBSTATION, AND PERMANENT AND TEMPORARY FIBER OPTIC LINES.
- 24. WIND TURBINE TOWER DOOR ORIENTATION SHALL BE CONFIRMED WITH THE OWNER PRIOR TO CONSTRUCTION
- 25. ISOLATED GRADING FOR CRANE PATHS MAY BE REQUIRED. CONTRACTOR TO GRADE ACCORDING TO CRANE MANUFACTURER'S SPECIFICATIONS
- 26. NO IMPACTS TO THESE AVOIDANCE AREAS ARE ALLOWED EXCEPT IN THE LOCATIONS SHOWN ON THE PLANS.
- 27. CONTRACTOR SHALL PROVIDE STAKING WHERE APPROPRIATE TO ENSURE ALL CONSTRUCTION ACTIVITIES STAY WITHIN THE PROJECT BOUNDARY. 28. TIMBER MATTING REQUIRED WHEN CROSSING AGRICULTURAL LAND.
- 29. SENSITIVE AREAS WILL REQUIRE SILT FENCING TO BE INSTALLED ALONG THE BORDER WHERE THESE FEATURES EXIST WITHIN 100' OF ACCESS ROADS AND OTHER FACILITIES.
- 30. REFER TO TREE CLEARING PLANS FOR EROSION AND SEDIMENTATION CONTROL CONTINUATION.
- 31. EROSION AND SEDIMENT CONTROL BMP INSTALLATION TO BE ADJUSTED AS NEEDED TO ACCOMMODATE ACTUAL CONTOURS IDENTIFIED IN THE FIELD DURING VARIOUS PHASES OF THE PROJECT.
- 32. NO GROUND DISTURBANCE OR CONSTRUCTION RELATED ACTIVITIES WITHIN OCCUPIED WINTERING AND BREEDING HABITAT IDENTIFIED IN THE APPROVED NET CONSERVATION BENEIT PLAN SHALL BE CONDUCTED DURING THE RESTRICTED PERIODS IDENTIFIED IN 19 NYCRR 900-6.4(o). IF ACTIVITIES MUST OCCUR WITHIN THIS TIME WINDOW, THE OCCUPIED HABITAT AREAS PROPOSED FOR ACTIVE CONSTRUCTION SHALL BE ASSESSED WEEKLY BY THE ON-SITE ENVIRONMENTAL MONITOR OR BIOLOGIST.
- 33. CONTRACTOR SHALL REPAIR CRUSHED OR SEVERED DRAIN TILE IN ACCORDANCE WITH THE DRAIN TILE REPAIR DETAIL UT-41. THE ENVIRONMENTAL MONITOR SHALL COORDINATE WITH NYSAGM TO ENSURE COMPLIANCE WITH THE APPROVED DRAINAGE REMEDIATION PLAN
- 34. A THIRD-PARTY ENVIRONMENTAL MONITOR SHALL BE HIRED TO OVERSEE CONSTRUCTION, RESTORATION, AND FOLLOW-UP MONITORING IN AGRICULTURAL AREAS. THE ENVIRONMENTAL MONITOR SHALL BE ON-SITE WHENEVER CONSTRUCTION OR RESTORATION WORK IS OCCURRING IN AGRICULTURAL LANDS AND SHALL COORDINATE WITH THE NYSAGM TO ENSURE THAT THE GOALS OF THE NYSAGM GUIDELINES ARE BEING MET TO THE FULLEST EXTENT PRACTICABLE
- 35. ALL DISTURBED AREAS ARE TO BE RESTORED TO PRE-EXISTING OR BETTER CONDITIONS. THE CONTRACTOR IS TO ENSURE RESTORATION OF THE ENTIRE WORK SITE IS IN COMPLIANCE WITH THE 94-C PERMIT AND NYSAGM GUIDELINES FOR WIND ENERGY PROJECTS.
- 36. CONSTRUCTION WORK SHALL BE LIMITED TO THE HOURS OF 7:00 A.M. TO 8:00 P.M. MONDAY THROUGH SATURDAY AND 8:00 A.M. TO 8:00 P.M. SUNDAYS AND NATIONAL HOLIDAYS. FOR CERTAIN CONSTRUCTION PHASES AND ACTIVITIES, ADDITIONAL WORK HOURS MAY BE NECESSARY AND SHALL BE NOTIFIED IN ACCORDANCE WITH THE 94-C PERMIT. ACCESS IS RESTRICTED IN ENVIRONMENTALLY SENSITIVE AREAS IDENTIFIED ON THE PLANS BETWEEN THE PERIOD OF DECEMBER THROUGH MARCH. THE ENVIRONMENTAL MONITOR SHALL MONITOR ACTIVITIES WITHIN THE ENVIRONMENTALLY SENSITIVE AREA DURING APPROVED TIME FRAMES

### ROAD DESIGN PARAMETERS

- THE ROAD SECTION HAS BEEN DESIGNED TO ACCOMMODATE WIND TURBINE COMPONENT DELIVERY DURING CONSTRUCTION AND LIGHT DUTY TRUCKS FOR LOW VOLUME USE IN NORMAL OPERATING CONDITIONS. THE ROAD DESIGN SPECIFIED IS NOT INTENDED FOR ALL WEATHER USE FOR HEAVY DUTY, HIGH VOLUME, CONSTRUCTION LOADS.
- 2. ROAD MAINTENANCE CAN BE EXPECTED OVER THE LIFE OF THE PERMANENT FACILITY AND MAY INCLUDE BLADING AND REPLACEMENT OF AGGREGATE
- 3. CONTRACTOR SHALL CONFIRM ROAD DESIGN MEETS THE REQUIREMENTS OF THE TURBINE MANUFACTURER ACCESS ROAD MANUAL.

### STORM WATER DESIGN PARAMETERS

- 1. ANTICIPATED DRAINAGE CROSSINGS ARE SHOWN ON THE CONSTRUCTION PLANS BASED LARGELY ON OBSERVATION OF DRAINAGE CHANNELS/DRAINAGE EROSION FROM THE AERIAL IMAGERY, GIS STREAM LINEWORK AND EXISTING TOPOGRAPHY DATA AVAILABLE. ADDITIONAL CULVERTS/LOW WATER CROSSINGS MAY NEED TO BE INSTALLED IN AREAS WHERE CONCENTRATED FLOW IS EXPECTED DUE TO THE CONSTRUCTION ACTIVITIES.
- 2. FOR FEDERAL ONLY STREAMS CULVERT SIZE TO BE DETERMINED IN COORDINATION WITH THE USACE.
- 3. FOR FEDERAL AND STATE STREAMS CULVERT SIZE TO BE DETERMINED IN COORDINATION WITH THE USACE AND IN ACCORDANCE WITH THE 19 NYCRR §900-2.6(3)(r)(6)
- 4. CULVERTS WITHIN THE ROWS HAVE BEEN SIZED BY WESTWOOD. INSTALLED CULVERTS SHALL BE SIZED TO MATCH THE DOWNSTREAM CULVERT SIZE WHERE AVAILABLE. WHERE THERE IS NO DOWNSTREAM CULVERT, COUNTY ROAD CULVERTS HAVE BEEN SIZED BASED ON A 10 YEAR STORM EVENT, AND STATE ROAD CULVERTS HAVE BEEN SIZED BY NYSDOT OR THE 10 YEAR STORM EVENT. IN-FIELD CULVERTS HAVE BEEN SIZED BASED UPON A 10 YEAR STORM EVENT. FOR NON-JURISDICTIONAL CROSSINGS. CULVERTS FOR JURISDICTIONAL CROSSINGS HAVE BEEN SIZED BASED ON STREAM TYPE DESIGNATED BY WESTWOOD AND USACOE GENERAL GUIDELINES FOR STREAM CROSSINGS REGIONAL CONDITION 1. THE MINIMUM TYPICAL CULVERT SIZE IS 18". IT IS
- EXPECTED THAT CULVERTS WILL BE OVERTOPPED DURING SOME STORMS AND MAINTENANCE WILL BE REQUIRED THROUGH THE LIFE OF THE PROJECT. 5. ALL CULVERTS SHALL BE INSTALLED PER NEW YORK STATE DEPARTMENT OF TRANSPORTATION AND/OR MADISON COUNTY STANDARD SPECIFICATIONS. CULVERTS WITHIN THE NYSDOT ROW REQUIRE DOUBLE-WALLED HDPE PIPE WITH SMOOTH INTERIOR WALLS WITH FLARED END SECTIONS ON PERMANENT INSTALLATIONS IN ACCORDANCE WITH NYSDOT PERMITS. CULVERTS WITHIN THE NYSDOT ROW REQUIRE FLARED END SECTIONS IN ACCORDANCE WITH NYSDOT PERMITS. ALL TEMPORARY PORTIONS OF THE INSTALLED CULVERTS SHALL BE REMOVED UPON COMPLETION OF THE PROJECT.
- WHEN INSTALLING DRAINAGE CULVERTS THE CONTRACTOR SHALL USE JUDGMENT IN SETTING THE FLOW LINE ELEVATIONS AND CULVERT LONGITUDINAL SLOPE. TYPICALLY, THE FLOW LINE ELEVATIONS AND LONGITUDINAL SLOPE OF THE CULVERT SHOULD MATCH THE NATURAL GROUND ELEVATIONS AND SLOPE TO ENSURE POSITIVE DRAINAGE. CULVERTS SHALL BE SUMPED 2.5" BELOW THE EXISTING CHANNEL FLOW LINE. CULVERTS LARGER THAN 48" SHALL BE EMBEDDED 1 FOOT BELOW THE GRADE OF THE STREAM. MINIMUM COVER SHALL ADHERE TO MANUFACTURER'S RECOMMENDATIONS. WHEN POSSIBLE, ALL CULVERTS SHOULD BE PLACED AT A MINIMUM 0.5% GRADE. CULVERTS PERCHED ABOVE THE GRADE OF THE STREAM ARE NOT ALLOWED. CULVERTS IN JURISDICTIONAL STREAMS REQUIRE 20% EMBEDMENT.
- 7. LOW WATER CROSSINGS HAVE BEEN DESIGNED TO ALLOW NATURAL DRAINAGE TO OCCUR POST CONSTRUCTION OF THE ACCESS ROADS. IT IS ANTICIPATED THAT DURING "HEAVY" RAIN STORM EVENTS AND DURING THE FREEZE/THAW CYCLE SOME ACCESS ROADS MAY BE DIFFICULT TO TRAVERSE DUE TO THE SEASONAL ENVIRONMENTAL CONDITIONS. MAINTENANCE OF THE ACCESS ROADS MAY BE REQUIRED DUE TO NATURAL DRAINAGE

### STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY EROSION CONTROL MEASURES IN COMPLIANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT. THE PROJECT STORMWATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN PREPARED BY WESTWOOD. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE SWPPP AND THE NEW YORK STATE STATE GENERAL PERMIT GP-0-20-001 REFER TO THE SWPPP FOR EROSION CONTROL AND RESTORATION SPECIFICATIONS, SEDIMENT AND EROSION CONTROL PROCEDURES, LOCATIONS OF BMPs, DETAILS, AND INSPECTION INFORMATION.
- 2. NON-STORM WATER POLLUTANTS SUCH AS CONCRETE, FLY ASH, LIME, ASPHALT MATERIALS, OILS, AND OTHER MATERIALS SHALL BE CONTAINED AND NOT ALLOWED TO BE DISCHARGED FROM THE PROJECT AREA.

#### TREE CLEARING:

- 1 TREES WILL BE FELLED AND CUT TO APPROPRIATE LENGTHS WITHIN THE LIMITS OF DISTURBANCE IN PROXIMITY TO THE PROPOSED LOG STORAGE AREA. FELLED TIMBER WILL BE STACKED IN PLACE UNTIL SUFFICIENT SPACE HAS BEEN CLEARED TO ESTABLISH IDENTIFIED LOG STORAGE AREAS.
- APPROXIMATE LOG STORAGE AREAS WILL BE FINALIZED BASED ON FIELD CONDITIONS. PRIOR TO WETLAND PERMIT ISSUANCE, TREE CLEARING WITHIN PALUSTINE FORESTED (PFO) WETLANDS IS NOT ALLOWED; TREES WITHIN OR ADJACENT TO PALUSTINE EMERGENT (PEM) AND PALUSTRINE SHRUB SCRUB (PSS) WETLANDS ARE TO BE HAND CUT. WETLANDS ARE NOT TO BE
- ENCROACHED WITH MACHINERY AND WETLANDS ARE TO BE PROTECTED. ONCE PERMIT HAS BEEN OBTAINED THE CONTRACTOR MAY CUT TREES WITHIN WETLANDS MECHANICALLY, WITH THE INSTALLATION OF TIMBER
- MATS, AND REMOVE TREE STUBS. WETLAND ENCROACHMENT WILL BE MINIMIZED TO THE EXTENT PRACTICABLE WHEN REMOVING TREE STUMPS. CONTRACTOR IS TO PROPERLY REMOVE AND DISPOSE OF THE TIMBER. COORDINATE WITH THE DEVELOPER.
- TREE CLEARING PERMIT IS TO BE OBTAINED BY THE OWNER.

ADDITIONAL AGGREGATE OR GRUBBING IS NOT NEEDED IN THESE AREAS

- ALL PERMITS FEES ARE TO BE PAID BY THE OWNER. AREAS DENOTED AS "PROPOSED BLADE SWING AREA" NEED TO BE FREE OF OBJECTS. WHICH INCLUDES BUT IS NOT LIMITED TO TREES AND SIGNS.

#### EXECUTION

#### CLEARING AND GRUBBING

- A. THE CONTRACTOR SHALL BE REQUIRED TO REMOVE ALL TREES, STUMPS, BRUSH, AND DEBRIS WITHIN THE GRADING AREAS SHOWN ON THE PLANS. THE CONTRACTOR IS TO REMOVE ONLY THOSE TREES WHICH ARE DESIGNATED BY THE OWNER'S REPRESENTATIVE FOR REMOVAL, AND SHALL EXERCISE EXTREME CARE AROUND EXISTING TREES TO BE SAVED.
- TOPSOIL STRIPPING A. TOPSOIL SHALL BE STRIPPED FROM ALL ROADWAY AND FOUNDATION AREAS THROUGH THE ROOT ZONE. TOPSOIL SHALL NOT BE STRIPPED OUTSIDE OF THE DESIGNATED
- DISTURBANCE AREAS B. ANY TOPSOIL, THAT HAS BEEN STRIPPED, SHALL BE RE-SPREAD OR STOCKPILED WITHIN GRADING AREAS AND/OR USED AS FILL OUTSIDE OF THE DISTURBANCE AREAS. ALL
- TOPSOIL SHALL BE REDISTRIBUTED TO THE LAND OWNER'S PROPERTY OF WHERE IT ORIGINATED FROM AND NOT IMPEDE NATURAL DRAINAGE FLOW. 3. EMBANKMENT CONSTRUCTION A. EMBANKMENT CONSTRUCTION SHALL CONSIST OF THE PLACING OF SUITABLE FILL MATERIAL, AFTER TOPSOIL STRIPPING, ABOVE THE EXISTING GRADE. GENERALLY,

OBTAINED ONSITE/OFFSITE BY CONTRACTOR, AS DIRECTED OR APPROVED BY THE ENGINEER. THIS MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 12".

EMBANKMENTS SHALL HAVE COMPACTED SUPPORT SLOPES OF THREE FOOT HORIZONTAL TO ONE FOOT VERTICAL. THE MATERIAL FOR EMBANKMENT CONSTRUCTION

SHALL BE OBTAINED FROM THE O+M SITE/ACCESS ROAD/TURBINE EXCAVATION (SEE GEOTECHNICAL REPORT FOR RESTRICTIONS), OR ANY SUITABLE, APPROVED SOIL

B. SIDE SLOPES GREATER THAN 3:1 WILL NOT BE PERMITTED, UNLESS OTHERWISE NOTED ON THE PLAN.

# TABLE 1: MATERIAL TESTING SCHEDULE

#### **Required Test** ASTM Standard **Specified Criteria** Location Frequency ASTM D-698 Standard Proctor 1 per soil type as determined by independent testing agency Access Roads Spur Roads Roads: 1 test per 2 500 LF (minimum 1 per road) 95% of Standard Proctor Maximum Dry Density **Nuclear Density** ASTM D-6938 Met Tower Roads Areas: 1 test per 5,000 SF (minimum 1 per area) +/- 2% of Optimum Moisture Content Public Road Improvements Substation Area No rutting greater than 1.5" and no "pumping" of the soil beneath/behind the loaded N/A Entire Length / Area Proof Roll O&M Area truck. See testing requirements for additional information. Subgrade (Non-cement Temporary Roads Stabilized) Temporary Intersection Improvements No rutting greater than 1.5" and no "pumping" of the soil beneath/behind the loaded Lavdown Yard N/A Entire Length / Area Proof Roll truck. See testing requirements for additional information. Batch Plant Turbine Pads (Staging Areas) Crane Walks EXCLUDED<sup>1</sup> EXCLUDED<sup>1</sup> EXCLUDED<sup>1</sup> EXCLUDED<sup>1</sup> Crane Pads<sup>1</sup> **Standard Proctor** ASTM D-698 Source (On -Site Borrow) Moisture Content ASTM D-2216 per soil type/source as determined by independent testing agency (Imported Fill) (Common Excavation) Atterberg Limits ASTM D-4318 LL < 45 and PI < 20 Embankments Turbine Pads (Staging Areas) 1 test per 5,000 SF per lift 95% of Standard Proctor Maximum Dry Density General Fill **Nuclear Density** ASTM D-6938 Intersection Improvements 1 test per 30,000 SF per lift (Turbine Pads only) +/- 2% of Optimum Moisture Content (for Mass Grading) Access Roads Spur Roads Met Tower Roads Public Road Improvements No rutting greater than 1.5" and no "pumping" of the soil beneath/behind the loaded Substation Area Entire Length / Area (Final Surface) N/A Proof Roll truck. See earthwork specifications for additional information. O&M Area Laydown/Batch Plant Grain Size Analysis ASTM C-136 See Table 2 **ASTM D-698** Standard Proctor Quarry Testing Per source from quarry. **Moisture Content** ASTM D-2216 Sample from site every 5,000CY. (Pre-Placement) Atterberg Limits ASTM D-4318 See Table 2 Los Angeles Abrasion ASTM C-131 See Table 2 Access Roads Aggregate Material Spur Roads

Structural design, recommendations, and testing for crane walks and crane pads is excluded from the engineering design contained within these plans. Refer to the geotechnical report, project specific crane walk/pad structural design (if available), geotechnical engineer, and/or contractor for specific information.

N/A

Proof Roll

### PRELIMINARY CONTRACTOR NOTES:

- . THE BOUNDARIES OF ALL STREAMS, WETLANDS, AND WETLAND ADJACENT AREAS AS DEPICTED ON THE FINAL CONSTRUCTION DRAWINGS WILL BE MARKED IN THE FIELD BY EITHER LATH MARKERS, SURVEYORS RIBBON, PIN FLAGS, OR SUITABLE EQUIVALENT PRIOR TO CONSTRUCTION BY THE BOP CONTRACTOR.
- THE BOUNDARIES OF ALL AREAS OF TREES TO BE CLEARED AS DEPICTED ON THE FINAL CONSTRUCTION DRAWINGS WILL BE MARKED IN THE FIELD BY EITHER
- LATH MARKERS, SURVEYORS RIBBON, PIN FLAGS, OR SUITABLE EQUIVALENT PRIOR TO CONSTRUCTION BY THE BOP CONTRACTOR. ANY DISRUPTION TO ORES REGULATED WETLANDS WILL BE MINIMIZED. ORES' FIELD REPRESENTATIVE WILL NOTIFY THE ORES REPRESENTATIVE AND THE APPLICANT'S REPRESENTATIVE OF ANY ACTIVITIES THAT VIOLATE OR MAY VIOLATE EITHER THE TERMS OF THE ARTICLE 10 CERTIFICATE OR THE
- ENVIRONMENTAL CONSERVATION LAW. ORES STAFFS' FIELD REPRESENTATIVES WILL WORK COOPERATIVELY TO DETERMINE WHETHER STOP WORK AUTHORITY WILL BE EXERCISED, OR WHETHER TO DIRECT THE APPLICANT TO TAKE ACTION TO FURTHER MINIMIZE IMPACTS TO STREAMS AND WETLANDS. RESTRICTED ACTIVITIES PERTAIN TO A BUFFER ZONE OF 300 FEET ON EITHER SIDE OF THE BOUNDARIES OF WATER-RELATED RESOURCES (STREAMS, WETLANDS,
- A. NO DEPOSITION OF SLASH WITHIN IDENTIFIABLE STREAM CHANNELS OR WOOD CHIPS WITHIN 25 FEET OF WETLANDS;

Met Tower Roads

Public Road Improvements

Substation (Base Aggregate Only)

O&M Area

Aggregate Rings

Intersection Improvements Laydown/Batch Plant

- B. NO UNNECESSARY REMOVAL OF WOODY VEGETATION OR DEGRADATION OF STREAM BANKS;
- C. NO EQUIPMENT WASHING OR REFUELING EXCEPT AS SPECIFIED IN THE FINAL CONSTRUCTION DRAWINGS; D. AND NO STORAGE MIXING OR HANDLING OF ANY PETROLEUM OR CHEMICAL MATERIALS IN OPEN CONTAINERS.
- E. REFUELING OF EQUIPMENT MUST UTILIZE SECONDARY CONTAINMENT MEASURES.

MADISON COUNTY POSTING STANDARDS FOR FURTHER DETAIL ON THE SIGNAGE.

SPRINGS, WELLS, DRAINAGE, ETC.) AND INCLUDE THE FOLLOWING RESTRICTIONS:

- F. REFUELING OR CHEMICAL STORAGE CAN NOT OCCUR WITHIN 300 FEET.
- "AVOID, DO NOT CROSS" INDICATES THAT AN AREA DOES NOT HAVE A DESIGNATED ACCESS ROUTE AND THAT EQUIPMENT IS RESTRICTED FROM CROSSING OR OPERATING IN THAT AREA. THIS DESIGNATION IS APPLIED TO ALL WETLANDS, STREAMS, AND ASSOCIATED BUFFERS THAT DO NOT HAVE APPROVED EQUIPMENT ACCESS, AS DEPICTED ON THE WETLAND IMPACT DRAWINGS. THESE RESTRICTIONS SHALL ALSO BE INDICATED ON THE FINAL CONSTRUCTION
- THE CONTRACTOR SHALL BE REQUIRED TO REMOVE ALL TREES, BRUSH, AND DEBRIS WITHIN THE GRADING AREAS SHOWN ON THE PLANS. THE CONTRACTOR IS TO REMOVE ONLY THOSE TREES WHICH ARE DESIGNATED BY THE OWNER'S REPRESENTATIVE FOR REMOVAL, AND SHALL EXERCISE EXTREME CARE AROUND **EXISTING TREES TO BE SAVED**
- THE BOUNDARIES OF ALL STREAMS, WETLANDS, AND WETLAND ADJACENT AREAS AS DEPICTED ON THE FINAL CONSTRUCTION DRAWINGS WILL BE MARKED IN 1 THE FIELD BY EITHER LATH MARKERS, SURVEYORS RIBBON, PIN FLAGS, OR SUITABLE EQUIVALENT PRIOR TO TREE CLEARING BY THE TREE CLEARING CONTRACTOR. BOUNDARIES SHALL BE RE-MARKED AS NECESSARY FOLLOWING CLEARING.
- CONCRETE WASHOUT LOCATIONS TO BE INDENTIFIED BY THE CONTRACTOR AS FOLLOWS: WASTE CONCRETE OR CONCRETE FROM THE TRUCK CLEAN OUT ACTIVITY AND/OR ANY WASH WATER FORM TRUCKS, EQUIPMENT OR TOOLS IF DONE ON SITE, MUST BE CONTAINED IN A MANNER THAT WILL PREVENT IT FROM ESCAPING INTO THE STREAMBANK OR INTO THE STREAM CHANNEL AND ENTERING THE
- CONTACTED WITHIN 2 HOURS. DISPOSAL OF WASTE CONCRETE OR WASH WATER MUST OCCUR GREATER THAN 100 FEET FROM ANY WATERBODY. 911 ADDRESS SIGNAGE WILL BE POSTED AT THE ENTRANCE OF EVERY ROAD AND NEAR EACH TURBINE. GENERAL LOCATION FOR THE SIGNS ARE SHOWN ON THE PLANS. ADDRESS NUMBERS AND LETTERS SHALL BE NO LESS THAN 4 INCHES IN HEIGHT. THE SIGN POST SHALL BE 3 FEET FROM THE EDGE OF THE BRIM OF THE ROAD TO INSURE IT IS NOT STRUCK BY SNOWPLOWS OR BURIED IN DEPOSITS OF SNOW DURING THE WINTER. POST TOPS SHALL BE FIVE FEET ABOVE GRADE AND BE INSTALLED ON THE FAR SIDE OF THE DRIVE AS APPROACHED FROM THE DIRECTION OF TRAVEL ON THE SIDE OF THE ROADWAY. REVIEW

STREAM, OR ENTERING WETLAND, OR ANY OTHER WATERBODY. IF A DISCHARGE OCCURS, ORES REGION 9 SUPERVISOR OF NATURAL RESOURCES SHALL BE

### PRELIMINARY GENERAL ENVIRONMENTAL RESTRICTIONS:

Entire Length / Area

INSPECTIONS AND TESTING

A. TESTING SHALL BE PERFORMED BY A DESIGNATED INDEPENDENT TESTING AGENCY

FULLY LOADED WATER TRUCK WITH AN EQUIVALENT AXLE LOADING

TABLE 2: NYSDOT TYPE 2 SUBBASE COURSE AGGREGATE

F.2. REMOVE UNSUITABLE MATERIAL AND REPLACE WITH CRUSHED AGGREGATE BASE.

2. ROAD SHOULDERS, AND CRANE PATHS SHALL CONSIST OF COMPACTED NATIVE SOILS.

4. GEOTEXTILE FABRIC SHALL BE MIRAFI HP570 OR APPROVED EQUAL IF REQUIRED.

C. TESTING AND INSPECTION RECORDS SHALL BE MAINTAINED BY THE CONTRACTOR AND MADE ACCESSIBLE TO THE CIVIL EOR AT THEIR REQUEST

E. PROOF ROLLING: PROOF ROLLING SHALL BE PERFORMED IN THE PRESENCE OF THE GEOTECHNICAL ENGINEER OR QUALIFIED GEOTECHNICAL REPRESENTATIVE

RELIEVE THE CONSTRUCTION CONTRACTOR FROM THE RESPONSIBILITY FOR CORRECTING DEFECTIVE WORK.

F. IF THE PROOF ROLL REQUIREMENTS CANNOT BE ACHIEVED, THE FOLLOWING ALTERNATES MAY BE IMPLEMENTED:

PERCENT PASSING

50-90

25-60

5-40

0-10

TRANSPORTATION AND/OR THE COUNTY. ALL CULVERTS SHALL BE MANUFACTURED OF CORRUGATED METAL PIPES.

AGGREGATE BASE: IF THE PROOF ROLL REQUIREMENTS CANNOT BE ACHIEVED, THE FOLLOWING ALTERNATES MAY BE IMPLEMENTED:

F.1. SCARIFY, DRY, AND RECOMPACT SUBGRADE AND PERFORM ADDITIONAL PROOFROLL AND DCP.

C.1. THE ENGINEER MAY REVIEW THE TESTING AND INSPECTION RECORDS TO CHECK CONFORMANCE WITH THE DRAWINGS AND SPECIFICATIONS. THE ENGINEER'S REVIEW DOES NOT

E.1. UNSTABILIZED SUBGRADE AND AGGREGATE BASE SHALL BE PROOF ROLLED USING A FULLY LOADED TANDEM AXLE DUMP TRUCK WITH A MINIMUM GROSS WEIGHT OF 20 TONS OR A

SIEVE SIZE

#200

BRICKS, GLASS AND PYRITIC SHALE ROCK.

No rutting greater than 1.5" and no "pumping" of the soil beneath/behind the loaded

truck. See earthwork specifications for additional information.

A NO. 200 MESH SIEVE.

ROAD AGGREGATE SHALL BE CRUSHED AGGREGATE MEETING NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION (DATE: JULY 9, 2020) PROVIDED

3. CULVERTS: SEE PLAN FOR CULVERT LOCATIONS. ACCESS ROAD CULVERTS SHALL MEET THE MINIMUM SPECIFICATIONS SET FORTH BY THE NEW YORK STATE DEPARTMENT OF

5. STRUCTURAL FILL: CLEAN SOIL THAT IS FREE OF SIGNIFICANT ORGANIC OR DELETERIOUS MATTER, OR IMPORTED SOIL AS APPROVED BY THE ENGINEER.

TABLE 4: IMPORTED STRUCTURAL FILL

PERCENT PASSING

100

10-100

\*IMPORTED STRUCTURAL FILL SHOULD CONTAIN NO PARTICLES LARGER THAN

3 INCHES AND LESS THAN 10 PERCENT, BY WEIGHT, OF MATERIAL FINER THAN

\*\*THE IMPORTED MATERIALS SHALL BE FREE OF RECYCLED CONCRETE, ASPHALT,

\*\*\*ADDITIONAL LABORATORY TESTING WILL BE REQUIRED TO DETERMINE IF THE

ON-SITE SOILS ARE SUITABLE FOR USE AS STRUCTURAL FILL ON SITE, HOWEVER

IT IS NOT EXPECTED TO MEET THE CRITERIA FOR STRUCTURAL FILL.

B. FOR PASSING CRITERIA, REFER TO GEOTECH INFORMATION.

D. REFER TO TABLE 1 FOR PROJECT TESTING SPECIFICATIONS

A. ADD ADDITIONAL 2 INCHES OF AGGREGATE

#40

#200

IN TABLE 7.1.1, OR AN APPROVED EQUAL.

LIQUID LIMIT (MAX) = 45

PLASTICITY INDEX = 0-15

**PRODUCTS** 

L.A ABRASION (% MAX) = 40%

- ALL EQUIPMENT ACCESS, STORAGE OF EQUIPMENT AND MATERIALS, AND OTHER CONSTRUCTION ACTIVITIES WILL BE CONFINED TO THE ACCESS ROADS, LAYDOWN AREAS, AND THE
- COLLECTION LINE AND TRANSMISSION LINE ROUTES AS DEPICTED ON THE FINAL CONSTRUCTION DRAWINGS. EQUIPMENT WILL UTILIZE THE INTERSECTION OF ACCESS ROADS AND EXISTING ROADS FOR TURNING. WORK AREAS, SUCH AS TURBINE SITES AND LAYDOWN AREAS, WILL ALSO PROVIDE AREAS FOR EQUIPMENT TURNING AND PARKING, IN ADDITION TO DESIGNATED TURNING LOCATIONS.
- 3. FUGITIVE DUST RESULTING FROM CONSTRUCTION ACTIVITIES WILL BE MINIMIZED TO THE MAXIMUM EXTENT PRACTICAL BY IMPLEMENTING APPROPRIATE CONTROL MEASURES. THESE MEASURES INCLUDE THE APPLICATION OF MULCH, WATER, OR STONE ON ACCESS ROADS, EXPOSED SOILS, STOCKPILED SOILS, OR UNPAVED PUBLIC ROADS WHEN DRY AND WINDY CONDITIONS EXIST. A WATERING VEHICLE WILL BE AVAILABLE ON AN AS-NEEDED BASIS. REFER TO DUST CONTROL PLAN PREPARED BY WESTWOOD.
- WITHIN 100 FEET OF STATE REGULATED WETLANDS AND 50 FEET OF OTHER WATER BODIES, REMOVE ONLY THE MINIMUM VEGETATION NECESSARY TO ALLOW CONSTRUCTION AND OPERATION OF THE FACILITY. STREAMS AND WETLANDS WILL BE PROTECTED FROM INDIRECT IMPACTS DURING CONSTRUCTION BY UTILIZING VARIOUS EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE
- WITH APPROVED PROJECT STORMWATER POLLUTION PREVENTION PLAN (SWPPP). SUCH MEASURES WILL INCLUDE, BUT NOT BE LIMITED TO, SILT FENCES PLACED BETWEEN WATER RESOURCE BOUNDARIES AND CONSTRUCTION AREAS. EXPOSED SOIL WILL BE SEEDED AND/OR MULCHED, AS SOON AS PRACTICABLE, BUT IN ANY EVENT, NO LATER THAN THE END OF THE WORK DAY IN WHICH SITE DISTURBANCE OCCURS, TO ASSURE THAT EROSION AND SILTATION IS KEPT TO A MINIMUM ALONG STREAM AND WETLAND BOUNDARIES.
- 6. TEMPORARY EROSION CONTROL DEVICES AND STABILIZATION PRACTICES WILL BE INSTALLED SOON AS PRACTICABLE AND APPROPRIATE, IN ACCORDANCE WITH THE SWPPP. EROSION CONTROL DEVICES WILL BE INSTALLED AFTER CLEARING, BUT PRIOR TO SOIL DISTURBANCE.
- 7. NO REFILLING OR CHEMICAL STORAGE WITHIN 300 FT OF WETLANDS OR STREAMS.
- 8. THE SEEDING MIXTURE WILL BE IN ACCORDANCE TO THE BLUEBOOK AND THE DISCRETION OF THE ENVIRONMENTAL MONITOR.
- 9. THE BOP CONTRACTOR WILL LOCATE AND DISTRIBUTE EXCESS EXCAVATION MATERIAL IN NON-AGRICULTURE UPLAND AREAS (I.E., OUTSIDE OF WETLANDS, STREAMS, AND AGRICULTURAL FIELDS). WHERE PRACTICAL, SUCH MATERIAL WILL BE USED AS ROAD FILL OR BACKFILL AROUND STRUCTURES. EROSION CONTROL PRACTICES WILL BE INSTALLED, AND EXPOSED SOILS STABILIZED IN ACCORDANCE WITH THE SWPPP
- CONSTRUCTION EQUIPMENT SANITATION: THE INTRODUCTION OF NON-NATIVE INVASIVE PLANT SPECIES WILL BE CONTROLLED BY ASSURING THAT ALL CONSTRUCTION EQUIPMENT IS CLEAN UPON ARRIVAL ON SITE, AND THAT EQUIPMENT UTILIZED IN AREAS WITH AN ABUNDANCE OF INVASIVE SPECIES WILL BE CLEANED PRIOR TO MOVING TO ANOTHER SITE. THE INTENT IS THAT EQUIPMENT SHOULD ARRIVE AT THE SITE CLEAN AND LEAVE THE SITE CLEAN. EQUIPMENT/CLOTHING CLEANING STATIONS WILL BE ESTABLISHED TO ENSURE THAT INVASIVE SPECIES SEEDS AND OTHER VIABLE PLANT PARTS CANNOT ESCAPE IN RUNOFF OR THROUGH OTHER MEANS.

### PRELIMINARY SPECIFIC STREAM CROSSING RESTRICTIONS:

- CONSTRUCTION WORK IN STREAMS WILL CONFORM TO APPROPRIATE TIMING RESTRICTIONS OUTLINED IN 19 NYCRR §900-6.4(R) TO PROTECT IMPORTANT FISHERIES RESOURCES, DURING SPAWNING AND PRIMARY MIGRATION PERIODS. FOR COLD WATER FISHERIES IN THE PROJECT AREA, CONSTRUCTION WORK IN STREAMS WILL BE PROHIBITED BETWEEN OCTOBER 1 AND MAY 31 TO AVOID TROUT SPAWNING PERIODS. FOR WARM WATER FISHERIES, CONSTRUCTION WORK IN STREAMS WILL BE PROHIBITED BETWEEN MARCH 1 AND JULY 15. HOWEVER, ONCE INSTALLED, SUCH CROSSINGS CAN BE USED BY CONSTRUCTION VEHICLES THROUGHOUT THE DURATION OF PROJECT CONSTRUCTION. ANY EXCEPTIONS TO THESE PROHIBITED PERIODS REQUIRE PRIOR APPROVAL BY ORES STAFF
- IN PROTECTED STREAMS CLASSIFIED AS C(T), ALL INSTREAM WORK, AS WELL AS ANY WORK THAT MAY RESULT IN THE SUSPENSION OF SEDIMENT, IS PROHIBITED DURING THE TROUT SPAWNING AND INCUBATION PERIOD COMMENCING OCTOBER 1 AND ENDING MAY 31, UNLESS OTHERWISE APPROVED BY ORES.
- A BUFFER ZONE OF 300 FEET, REFERRED TO AS "RESTRICTED ACTIVITIES AREA" OR SIMILAR ON THE FINAL FACILITY CONSTRUCTION DRAWINGS AND ROW CLEARING PLANS, SHALL BE ESTABLISHED WHERE FACILITY CONSTRUCTION TRAVERSES STREAMS, WETLANDS AND OTHER BODIES OF WATER. RESTRICTED ACTIVITIES AREAS SHALL BE MARKED IN THE FIELD. RESTRICTIONS WILL INCLUDE:NO DEPOSITION OF SLASH WITHIN OR ADJACENT TO A WATERBODY; NO ACCUMULATION OF CONSTRUCTION DEBRIS WITHIN THE AREA;HERBICIDE RESTRICTIONS WITHIN 300 FEET OF A STREAM OR WETLAND(OR AS REQUIRED PER MANUFACTURER'S INSTRUCTIONS); NO DEGRADATION OF STREAM BANKS;NO EQUIPMENT WASHING OR REFUELING WITHIN THE AREA; NO STORAGE OF ANY PETROLEUM OR CHEMICAL MATERIAL; AND NO DISPOSAL OF EXCESS CONCRETE OR CONCRETE WASH WATER. EXCEPT WHERE CROSSED BY PERMITTED ACCESS ROADS OR THROUGH USE OF TEMPORARY MATTING, STREAMS SHALL BE DESIGNATED "NO EQUIPMENT ACCESS" OR SIMILAR ON THE FINAL

# **FACILITY CONSTRUCTION DRAWINGS.**

Surveying & Engineering (952) 937-5150 12701 Whitewater Drive, Suite #300 (952) 937-5822 Minnetonka, MN 55343

(888) 937-5150 ww-pc.com

Westwood Surveying and Engineering, P.C.

EOR: Alejandro Alvarado, PE

Hoffman Falls Wind LLC

90 State Street Albany, NY 12207

**REVISIONS:** # DATE COMMENT BY CHK APR 0 01/26/2024 ISSUE FOR PERMIT HR HR AL

# **Hoffman Falls Wind Project**

Madison County, New York

General Notes - 1

**ISSUE FOR PERMI** 

01/26/2024

#### COMPLIANCE GENERAL NOTES

- THE CONTRACTOR SHALL CONSTRUCT THE FACILITY CONSISTENT WITH THE NEW YORK STATE DEPARTMENT OF AGRICULTURE AND MARKETS (AGM) GUIDELINES FOR AGRICULTURAL MITIGATION FOR WIND POWER PROJECTS, TO THE MAXIMUM EXTENT PRACTICABLE.
- 2. EXCEPT WHERE CROSSED BY PERMITTED ACCESS ROADS OR THROUGH USE OF TEMPORARY MATTING, STREAMS ARE DESIGNATED "NO EQUIPMENT ACCESS" ON THE FINAL FACILITY CONSTRUCTION DRAWINGS AND ROW CLEARING PLANS, AND MUST BE MARKED IN THE FIELD. THE USE OF MOTORIZED EQUIPMENT IS PROHIBITED IN THESE AREAS.
- 3. A BUFFER ZONE OF 300 FEET IS REFERRED TO AS "RESTRICTED ACTIVITIES AREA" ON THE CONSTRUCTION DRAWINGS AND ROW CLEARING PLANS WHERE FACILITY CONSTRUCTION TRAVERSES STREAMS, WETLANDS AND OTHER BODIES OF WATER. RESTRICTED ACTIVITIES AREAS SHALL BE MARKED IN THE FIELD. RESTRICTIONS WILL INCLUDE: NO DEPOSITION OF SLASH WITHIN OR ADJACENT TO A WATER BODY; NO ACCUMULATION OF CONSTRUCTION DEBRIS WITHIN THE AREA; HERBICIDE RESTRICTIONS WITHIN 100 FEET OF A STREAM OR WETLAND (OR AS REQUIRED PER MANUFACTURER'S INSTRUCTIONS); NO DEGRADATION OF STREAM BANKS; NO EQUIPMENT WASHING OR REFUELING WITHIN THE AREA; NO STORAGE OF ANY PETROLEUM OR CHEMICAL MATERIAL; AND NO DISPOSAL OF EXCESS CONCRETE OR CONCRETE WASH WATER. NO REFILLING OR CHEMICAL STORAGE WITHIN 300 FEET.
- 4. TREE AND VEGETATION CLEARING SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR FACILITY CONSTRUCTION. SURROUNDING TREES AND VEGETATION WILL NOT BE CUT DOWN ON ANY PROPERTY SOLELY TO REDUCE TURBULENCE OR INCREASE WIND FLOW TO THE FACILITY. TO REDUCE MORTALITY TO NESTING/ROOSTING BIRDS AND BATS, ALL TREE CLEARING ACTIVITIES (EXCEPT FOR HAZARD TREE REMOVAL) SHALL BE CONDUCTED BETWEEN NOVEMBER 1 AND APRIL 1 AND DOES NOT INCLUDE TREES LESS THAN OR EQUAL TO 3 INCHES IN DIAMETER AT BREAST HEIGHT (DBH).
- 5. ALL EQUIPMENT ACCESS, STORAGE OF EQUIPMENT AND MATERIALS, AND OTHER CONSTRUCTION ACTIVITIES WILL BE CONFINED TO THE LIMITS OF DISTURBANCE AS DEPICTED ON THE FINAL CONSTRUCTION DRAWINGS.
- 6. FUGITIVE DUST RESULTING FROM CONSTRUCTION ACTIVITIES WILL BE MINIMIZED TO THE MAXIMUM EXTENT PRACTICAL BY IMPLEMENTING APPROPRIATE CONTROL MEASURES. THESE MEASURES INCLUDE THE APPLICATION OF MULCH, WATER, OR STONE ON EXPOSED SOILS OR UNPAVED PUBLIC ROADS WHEN DRY AND WINDY CONDITIONS EXIST. A WATERING VEHICLE WILL BE AVAILABLE ON AN AS-NEEDED BASIS. REFER TO DUST CONTROL PLAN BY WESTWOOD.
- 7. TEMPORARY EROSION CONTROL DEVICES AND STABILIZATION PRACTICES WILL BE INSTALLED SOON AS PRACTICABLE AND APPROPRIATE, IN ACCORDANCE WITH THE SWPPP. EROSION CONTROL DEVICES WILL BE INSTALLED AFTER CLEARING, BUT PRIOR TO SOIL DISTURBANCE OR VEHICULAR TRAFFIC.
- 8. WOOD CHIP DEPTH SHALL NOT BE GREATER THAN THREE (3) INCHES. WOOD CHIPS SHALL NOT BE STORED OR DISPOSED OF IN WETLANDS, WITHIN STREAM BANKS, DELINEATED FLOODWAYS, OR ACTIVE AGRICULTURAL FIELDS.
- 9. AREAS DENOTED AS "PROPOSED BLADE SWING AREA" NEED TO BE FREE OF OBJECTS. WHICH INCLUDES BUT IS NOT LIMITED TO TREES AND SIGNS. ADDITIONAL AGGREGATE OR GRUBBING IS NOT NEEDED IN THESE AREAS

#### THREATENED AND ENDANGERED SPECIES

- I. EXCLUDING BALD EAGLES (HALIAEETUS LEUCOCEPHALUS), IF AT ANY TIME AN ACTIVE NEST OF ANY FEDERALLY, OR STATE, LISTED THREATENED OR ENDANGERED (TE) BIRD SPECIES IS DISCOVERED WITHIN AN ACTIVE CLEARING SITE, THE REGIONAL NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (DEC) NATURAL RESOURCE SUPERVISOR (607-622-8273) WILL BE NOTIFIED WITHIN FORTY-EIGHT (48) HOURS OF DISCOVERY, AND THE NEST SITE WILL BE MARKED. AN AREA FIVE HUNDRED (500) FEET IN RADIUS AROUND THE NEST WILL BE AVOIDED UNTIL NOTICE TO CONTINUE CONSTRUCTION AT THAT SITE IS GRANTED BY THE REGIONAL ORES NATURAL RESOURCE SUPERVISOR.
- 2. IF AT ANY TIME A BALD EAGLE NEST OR COMMUNAL ROOST (DEFINED AS A CLOSE CLUSTER OF TREES WITH 4 OR MORE EAGLES OBSERVED PERCHED) IS LOCATED, THE REGIONAL ORES NATURAL RESOURCE SUPERVISOR WILL BE NOTIFIED WITHIN FORTY-EIGHT (48) HOURS OF DISCOVERY, AND PRIOR TO ANY DISTURBANCE OF THE NEST OR IMMEDIATE AREA. AN AREA OF AT LEAST 0.25 MILES (1,320 FEET) IF THERE IS NOT VISUAL BUFFER OR IF THERE IS A VISUAL BUFFER AN AREA OF AT LEAST SIX HUNDRED SIXTY (660) FEET IN RADIUS FROM THE NEST TREE OR COMMUNAL ROOST WILL BE POSTED AND AVOIDED UNTIL NOTICE TO CONTINUE CONSTRUCTION WITHIN THE BUFFER IS GRANTED BY THE REGIONAL ORES NATURAL RESOURCES SUPERVISOR. THE NEST TREE OR COMMUNAL ROOST WILL NOT BE APPROACHED UNDER ANY CIRCUMSTANCES UNLESS AUTHORIZED BY THE REGIONAL ORES NATURAL RESOURCE SUPERVISOR.
- 3. REPORT ALL OCCURRENCES OF TE AVIAN SPECIES TO THE ENVIRONMENTAL MONITOR. IF A TE AVIAN SPECIES IS OBSERVED DEMONSTRATING BREEDING BEHAVIOR IT SHOULD BE REPORTED TO THE NATURAL RESOURCES SUPERVISOR WITHIN TWENTY-FOUR (24) HOURS
- 4. IF ANY DEAD, INJURED OR DAMAGED STATE-LISTED TE SPECIES, OR THEIR PARTS, EGGS, OR NESTS ARE DISCOVERED WITHIN THE PROJECT AREA THE REGIONAL DEC REGION 7 NATURAL RESOURCE SUPERVISOR AND UNITED STATES FISH AND WILDLIFE SERVICE (USFWS) (607-753-9334) MUST BE NOTIFIED WITHIN TWENTY-FOUR (24) HOURS TO ARRANGE FOR RECOVERY AND TRANSFER OF THE SPECIMEN(S)
- 5. ALL SNAG AND CAVITY TREES DEFINED UNDER ORES PROGRAM POLICY ONRDLF-2 RETENTION ON STATE FORESTS WILL BE RETAINED UNLESS THEIR REMOVAL IS NECESSARY FOR PROTECTION OF HUMAN LIFE AND PROPERTY. SNAG OR CAVITY TREES MAY BE REMOVED AFTER BEING CLEARED BY THE ENVIRONMENTAL MONITOR WHO SHALL CONDUCT AN EMERGENCE COUNT FOR BATS. UNOCCUPIED SNAGS AND CAVITY TREES WILL BE REMOVED WITHIN TWENTY-FOUR (24) HOURS OF A NEGATIVE EMERGENCE COUNTY.
- 6. LEAVE ALL KNOWN AND DOCUMENTED MATERNITY ROOST TREES OF LISTED BAT SPECIES AND ANY TREES WITHIN A 150-FOOT RADIUS OF DOCUMENTED SUMMER OCCURRENCE.
- 7. IF ANY BAT IS OBSERVED FLYING FROM A TREE OR A TREE THAT HAS BEEN CUT, TREE CLEARING ACTIVITIES WITHIN 150-FEET OF THE TREE SHALL BE SUSPENDED AND THE ORES WILDLIFE STAFF SHALL BE NOTIFIED WITHIN TWENTY-FOUR (24) HOURS. A STOP WORK ORDER SHALL IMMEDIATELY BE ISSUED AND THE ORES STAFF CONSULTED BEFORE RESUMPTION OF WORK.

### WETLANDS AND STREAMS, VEGETATION AND INVASIVE SPECIES

- 1. ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO PRECLUDE CONTAMINATION OF ANY WETLAND OR WATERWAY BY SUSPENDED SOLIDS, SEDIMENTS, FUELS, SOLVENTS, LUBRICANTS, EPOXY COATINGS, PAINTS, CONCRETE, LEACHATE OR ANY OTHER ENVIRONMENTALLY DELETERIOUS MATERIALS ASSOCIATED WITH THE PROJECT.
- 2. ALL CONSTRUCTION ACTIVITY, INCLUDING CLEARING OF VEGETATION, IS TO TAKE PLACE WITHIN THE PROJECT SITE AS DEPICTED ON PROJECT PLANS. NO CONSTRUCTION ACTIVITY IS TO TAKE PLACE WITHIN AREAS TO BE LEFT IN A NATURAL CONDITION. STAKING AND/OR FLAGGING CONSTRUCTION LIMITS SHALL OCCUR PRIOR TO ANY SITE DISTURBANCE.
- 3. ALL EQUIPMENT AND MACHINERY SHALL BE STORED AND SAFELY CONTAINED MORE THAN 100 FEET LANDWARD OF THE REGULATED WETLAND OR WATER BODY AT THE END OF EACH WORK DAY. THIS WILL SERVE TO AVOID THE INADVERTENT LEAKAGE OF DELETERIOUS SUBSTANCES INTO THE REGULATED AREA.
- 4. FUEL OR OTHER CHEMICAL STORAGE TANKS SHALL BE CONTAINED AND LOCATED AT ALL TIMES IN AN AREA MORE THAN 300 FEET LANDWARD OF ANY REGULATED WETLAND OR WATER BODY. IF THE ABOVE REQUIREMENT CANNOT BE MET, THEN THE STORAGE AREAS MUST BE DESIGNED TO COMPLETELY CONTAIN ANY AND ALL POTENTIAL LEAKAGE. SUCH A CONTAINMENT SYSTEM MUST BE APPROVED BY ORES STAFF IN WRITING PRIOR TO EQUIPMENT, MACHINERY OR TANK STORAGE.
- 5. ALL MOBILE EQUIPMENT, EXCLUDING DEWATERING PUMPS, MUST BE FUELED IN A LOCATION AT LEAST 100 FEET FROM THE TOP OF STREAM BANK, WETLAND, OR OTHER WATER BODY. DEWATERING PUMPS OPERATED CLOSER THAN 100 FEET FROM THE STREAM BANK, WETLAND, OR WATER BODY, MUST BE ON AN IMPERVIOUS SURFACE AND ABSORBENTS CAPABLE OF CONTAINING ANY LEAKAGE OF PETROLEUM PRODUCTS.
- 6. SPILLAGE OF FUELS, WASTE OILS, OTHER PETROLEUM PRODUCTS OR HAZARDOUS MATERIALS SHALL BE REPORTED TO THE DEC' SPILL HOTLINE (1-800-457-7362) WITHIN TWO HOURS ACCORDING TO THE ORES SPILL REPORTING AND INITIAL NOTIFICATION REQUIREMENTS TECHNICAL FIELD GUIDANCE.
- 7. ALL EQUIPMENT USED WITHIN THE BED OR BANKS OF STREAMS, OR IN WETLANDS AND ADJACENT AREAS, MUST BE INSPECTED DAILY FOR LEAKS OF PETROLEUM, OTHER FLUIDS, OR CONTAMINANTS AND MAY ONLY ENTER A STREAM CHANNEL IF FOUND TO BE FREE OF ANY LEAKAGE. A SPILL KIT MUST BE ON SITE AND ANY LEAKS MUST BE STOPPED AND CLEANED UP IMMEDIATELY.
- 8. VISIBLY TURBID DISCHARGES FROM LAND CLEARING, SHALL NOT ENTER ANY SURFACE WATER BODY. ALL NECESSARY MEASURES SHALL BE IMPLEMENTED TO PREVENT ANY VISIBLE INCREASE IN TURBIDITY OR SEDIMENTATION DOWNSTREAM OF THE WORK SITE, INCLUDING BUT NOT LIMITED TO THE USE OF:
- 8.1. APPROPRIATELY MAINTAINED UPLAND SETTLING BASINS;
- 8.2. CRUSHED STONE, SAND, OR SILT SCREENING (MAXIMUM OPENING SIZE OF U.S. SIEVE NUMBER 20) TO FILTER TURBID WATERS;
  8.3. SILT-BAGS OR SIMILAR PRE-CONSTRUCTED STRUCTURE DESIGNED TO REMOVE SILT AND SEDIMENT PARTICLES BEFORE THEY ARE DISCHARGED. OR:
- 8.4. GRASSY UPLAND AREAS AT A SUFFICIENT DISTANCE FROM THE RECEIVING WATER BODY TO PREVENT A VISUALLY DISCERNIBLE TURBID DISCHARGE TO THE RECEIVING WATER.
- 9. AT LOCATIONS WHERE TEMPORARY WETLAND CROSSINGS ARE NECESSARY IMPACTS WILL BE AVOIDED THROUGH THE USE OF TIMBER MATS.
- 10. ALL DISTURBED SOILS WITHIN REGULATED FRESHWATER WETLANDS AND THE ASSOCIATED ADJACENT AREAS MUST BE SEEDED WITH A NATIVE SEED MIX OR CROPS CONSISTENT WITH EXISTING AGRICULTURAL USES. MULCH SHALL BE MAINTAINED UNTIL THE DISTURBED AREA IS PERMANENTLY STABILIZED. ADDITIONAL SEEDING SHALL BE COMPLETED AS NECESSARY TO ACHIEVE AN 80% VEGETATIVE COVER ACROSS ALL DISTURBED AREAS.
- 11. ANY DEBRIS OR EXCESS MATERIAL FROM CONSTRUCTION OF THE PROJECT SHALL BE COMPLETELY REMOVED FROM WETLANDS OR ADJACENT AREAS (UPLAND) AND RELOCATED TO A FACILITY DULY AUTHORIZED TO RECEIVE SUCH MATERIAL.
- 12. CLEARED VEGETATION AND SLASH FROM WETLANDS AND ADJACENT AREAS WILL NOT BE BURNED OR BURIED WITHIN THE WETLAND OR ADJACENT AREA. THE VEGETATION MUST BE DISPOSED OF OUTSIDE OF THE WETLAND AND ADJACENT AREA, BUT SLASH THAT IS CUT MAY BE LEFT IN PLACE (DROP AND LOP OR PILED IN DRY OR SEASONALLY SATURATED PORTIONS OF FRESHWATER WETLANDS AND 100-FOOT ADJACENT AREAS TO CREATE WILDLIFE BRUSH PILES).
- 13. TO CONTROL THE SPREAD OF INVASIVE INSECTS, THE CONTRACTOR WILL:
- 13.1. ENSURE THAT ALL CONSTRUCTION EQUIPMENT (INCLUDING TIMBER MATS) IS CLEAN UPON ARRIVAL ON SITE, AND THAT EQUIPMENT UTILIZED IN AREAS WITH AN ABUNDANCE OF INVASIVE SPECIES ARE CLEANED PRIOR TO MOVING TO ANOTHER SITE.
- 13.2. COORDINATE FOR SALE AND USE OF THE MERCHANTABLE TIMBER; AND PROVIDE UNMERCHANTABLE TIMBER AS FIREWOOD TO
   ADJACENT LANDOWNERS OR THE GENERAL PUBLIC PURSUANT TO THE ORES' FIREWOOD RESTRICTIONS TO PROTECT FORESTS
   FROM INVASIVE SPECIES FOUND IN 6 NYCRR PART 192.5;
   13.3. MAKE SURE CREWS ARE TRAINED TO IDENTIFY THE ASIAN LONGHORNED BEETLE AND THE EMERALD ASH BORER AND ANY OTHER
- INSECTS THAT THE ORES IDENTIFIES AS A POTENTIAL PROBLEM. IF THESE INSPECTS ARE ROUND, THEY MUST BE REPORTED TO THE ORES REGIONAL FORESTER, AND

  13.4. COMPLY WITH SITE-SPECIFIC PLANS FOR MANAGEMENT OF JAPANESE KNOTWEED AND SPECIES AS DESCRIBED IN THE INVASIVE
- SPECIES CONTROL PLAN (ISCP).
- 14. IF A ONE-TIME CROSSING OF A STREAM OCCURS AS PART OF AN INSTALLATION OF A TEMPORARY BRIDGE AND A TIRE MAT IS USED, THE FOLLOWING RESTRICTIONS APPLY:
- 14.1. THE MAT MUST FOLLOW THE CONTOUR OF THE STREAMBED AND ALLOW FOR A LOW FLOW CHANNEL AND NOT CHANGE THE

#### FLOW PATH OF THE STREAM.

- 14.2. THE MAT SHALL BE REMOVED IMMEDIATELY AFTER THE CROSSING OF THE STREAM OCCURS.
- 15. IF ANY TREES AND SHRUBS GROWING WITHIN 50 FEET OF STREAMS NEED TO BE CUT IN THE PROCESS OF CONSTRUCTING OVERHEAD POWER LINE CROSSINGS, THEY SHALL BE CUT OFF WITH AT LEAST TWO FEET OF THE STUMP REMAINING. STUMPS AND ROOT SYSTEMS SHALL NOT BE DAMAGED TO FACILITATE STUMP SPROUTING. TREES SHALL NOT BE FELLED INTO ANY STREAM OR ONTO THE IMMEDIATE STREAM BANK. ALL TREES AND SHRUBS CUT WITHIN THE 50 FOOT BUFFER AREA SHALL BE LEFT ON THE GROUND.
- 16. CLEARING OF NATURAL VEGETATION ALONG STREAMS AND WITHIN WETLANDS SHALL BE LIMITED TO THAT MATERIAL WHICH POSES A HAZARD OR HINDRANCE TO THE CONSTRUCTION ACTIVITY. SNAGS WHICH PROVIDE SHELTER IN STREAMS FOR FISH SHALL NOT BE DISTURBED UNLESS THEY CAUSE SERIOUS OBSTRUCTIONS, SCOURING OR EROSION. TREES SHALL NOT BE FELLED INTO ANY STREAM OR ONTO THE IMMEDIATE STREAM BANK.
- 17. WITHIN 100 FEET OF STATE REGULATED WETLANDS AND 50 FEET OF OTHER WATER BODIES, REMOVE ONLY THE MINIMUM VEGETATION NECESSARY
  TO ALLOW CONSTRUCTION AND OPERATION OF THE FACILITY
- 18. STREAMS AND WETLANDS WILL BE PROTECTED FROM INDIRECT IMPACTS DURING CONSTRUCTION BY UTILIZING VARIOUS EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH APPROVED PROJECT STORMWATER POLLUTION PREVENTION PLAN (SWPPP). SUCH MEASURES WILL INCLUDE, BUT NOT BE LIMITED TO, SILT FENCES PLACED BETWEEN WATER RESOURCE BOUNDARIES AND CONSTRUCTION AREAS. EXPOSED SOIL WILL BE SEEDED AND/OR MULCHED, AS SOON AS PRACTICABLE, BUT IN ANY EVENT, NO LATER THAN THE END OF THE WORK DAY IN WHICH SITE DISTURBANCE OCCURS, TO ASSURE THAT EROSION AND SILTATION IS KEPT TO A MINIMUM ALONG STREAM AND WETLAND
- 19. CONSTRUCTION WORK IN STREAMS WILL CONFORM TO APPROPRIATE TIMING RESTRICTIONS TO PROTECT IMPORTANT FISHERIES RESOURCES, DURING SPAWNING AND PRIMARY MIGRATION PERIODS. STREAMS SUBJECT TO SUCH RESTRICTIONS WILL BE DETERMINED IN THE FIELD BY REPRESENTATIVES OF THE ORES AND THE APPLICANT, PRIOR TO CONSTRUCTION. FOR COLD WATER FISHERIES IN THE PROJECT AREA, CONSTRUCTION WORK IN STREAMS WILL BE PROHIBITED BETWEEN OCTOBER 1 AND MAY 31 TO AVOID TROUT SPAWNING PERIODS. FOR WARM WATER FISHERIES, CONSTRUCTION WORK IN STREAMS WILL BE PROHIBITED BETWEEN MARCH 1 AND JULY 15. HOWEVER, ONCE INSTALLED, SUCH CROSSINGS CAN BE USED BY CONSTRUCTION VEHICLES THROUGHOUT THE DURATION OF PROJECT CONSTRUCTION. ANY EXCEPTIONS TO THESE PROHIBITED PERIODS REQUIRE PRIOR APPROVAL BY ORES, IN CONSULTATION WITH ORES.
- 20. ANY DISRUPTION TO NYS REGULATED WETLANDS WILL BE MINIMIZED. DEC' FIELD REPRESENTATIVE WILL NOTIFY THE DEC REPRESENTATIVE AND THE APPLICANT'S REPRESENTATIVE OF ANY ACTIVITIES THAT VIOLATE OR MAY VIOLATE EITHER THE TERMS OF 94-C OR THE ENVIRONMENTAL CONSERVATION LAW. ORES STAFFS' FIELD REPRESENTATIVES WILL WORK COOPERATIVELY TO DETERMINE WHETHER STOP WORK AUTHORITY WILL BE EXERCISED, OR WHETHER TO DIRECT THE APPLICANT TO TAKE ACTION TO FURTHER MINIMIZE IMPACTS TO STREAMS AND WETLANDS.
- 21. RESTRICTED ACTIVITIES PERTAIN TO A BUFFER ZONE OF 300 FEET ON EITHER SIDE OF THE BOUNDARIES OF WATER-RELATED RESOURCES (STREAMS, WETLANDS, SPRINGS, WELLS, DRAINAGE, ETC.) AND INCLUDE THE FOLLOWING RESTRICTIONS:
- A. NO DEPOSITION OF SLASH WITHIN IDENTIFIABLE STREAM CHANNELS OR WOOD CHIPS WITHIN 25 FEET OF WETLANDS;
- B. NO UNNECESSARY REMOVAL OF WOODY VEGETATION OR DEGRADATION OF STREAM BANKS;C. NO EQUIPMENT WASHING OR REFUELING EXCEPT AS SPECIFIED IN THE FINAL CONSTRUCTION DRAWINGS;
- D. AND NO STORAGE MIXING OR HANDLING OF ANY PETROLEUM OR CHEMICAL MATERIALS IN OPEN CONTAINERS.
- E. REFUELING OF EQUIPMENT MUST UTILIZE SECONDARY CONTAINMENT MEASURES.

#### **CLEARING METHODS**

- 1. TYPE I CLEARING CONSISTS OF CLEARING THE DESIGNATED AREAS OF ALL WOOD PLANTS, INCLUDING DESIRABLE LOW-GROWING SPECIES. ALL PLANTS WILL BE CUT AS CLOSE TO THE GROUND AS PRACTICABLE, AND AFTER CUTTING NO PLANT WILL EXCEED SIX (6) INCHES ABOVE GROUND LINE. TYPE I CLEARING WILL BE UTILIZED IN CIRCUMSTANCES WHERE WOODY PLANTS WOULD HINDER ACCESS AND CONSTRUCTION ACTIVITIES (I.E., IN CONNECTION WITH CLEARING ACCESS ROADS, WORK AREAS, AND COLLECTION LINE
- 2. TYPE II CLEARING CONSISTS OF CLEARING THE DESIGNATED AREAS OF ANY WOODY PLANTS SPECIES WHICH HAVE THE POTENTIAL TO VIOLATE MINIMUM CLEARANCE DISTANCE. ALL GROWTH WILL BE CUT AS CLOSE TO THE GROUND AS PRACTICABLE, BUT IN NO CASE WILL AFTER-CUTTING HEIGHT EXCEED SIX (6) INCHES ABOVE GROUND LINE, UNLESS OTHERWISE DIRECTED BY THE ENVIRONMENTAL MONITOR (EM).
- 3. REASONABLE CARE WILL BE TAKEN, INSOFAR AS IS PRACTICAL, TO RETAIN DESIRABLE SPECIES FOUND WITHIN TYPE II CLEARING ZONES. THE ENVIRONMENTAL MONITOR (EM) WILL MAKE A FIELD DETERMINATION AS TO WHETHER SUCH RETENTION WOULD IMPOSE AN UNREASONABLE BURDEN ON CLEARING OR CONSTRUCTION ACTIVITIES.

#### WOOD/SLASH DISPOSAL METHODS

### TYPE A - CONSISTS OF REMOVING ALL WOODY DEBRIS FROM THE PROPERTY.

- 2. TYPE B CONSISTS OF THE REMOVAL OF ALL LOGS FROM THE PROPERTY. BRUSH/SLASH SHOULD BE CHIPPED AND SPREAD WITHIN THE LIMITS OF DISTURBANCE.
- 3. TYPE C LOGS SHALL BE PLACED IN PILES IN DESIGNATED STORAGE AREAS AS SHOWN, OR AT THE EDGE OF THE LIMITS OF DISTURBANCE. BRUSH/SLASH SHOULD BE CHIPPED AND SPREAD WITHIN THE LIMITS OF DISTURBANCE.
- 4. TYPE D CONSISTS OF DROPPING LOPPING TREES SO THAT THE SLASH LIES AS CLOSE TO THE GROUND AS PRACTICABLE, WITH BRANCHES AND LIMB WOOD NOT EXCEEDING AN AVERAGE DEPTH OF TWEWNTY-FOUR (24) INCHES. INCLUDING WETLAND AND STREAMS AREAS, TYPE D WOOD DISPOSAL WILL ADHERE TO THE FOLLOWING ADDITIONAL CONDITIONS INCLUDED:
- 4.1. ONLY A SELECTIVE PORTION OF VEGETATION, AS NEEDED TO PREVENT THE BLOCKING OF FLOW AND THE TRAPPING OF DEBRIS, IS TO BE REMOVED FROM THE WATER COURSE AND FLOODWAY, ALL CUTTINGS (REGARDLESS OF LOCATIONS) ARE TO BE CUT AND BUCKED TO LIE NEAR GROUND LEVEL. HOWEVER WHERE TREE ROOT BASES ARE ATTACHED TO THE STREAM BANK, THEY WILL BE LEFT IN PLACES. THE REMAINDER OF THE TREE WILL BE CUT FROM THE BASE PRIOR TO REMOVAL.

### DANGER TREE

- A DANGER TREE IS ANY TREE ROOTED OUTSIDE OF A ROW THAT DUE TO ITS PROXIMITY AND PHYSICAL CONDITION (I.E., MORALITY, LEAN, DECAY, CAVITIES, CRACKS, WEAK BRANCHING, ROOT LIFTING, OR OTHER INSTABILITY), POSES A PARTICULAR DANGER TO A CONDUCTOR OR OTHER KEY COMPONENT OF THE FACILITY.
- ALL DANGER TREES WILL BE REMOVED AT THE TIME OF THE INITIAL CLEARING AND AS PART OF THE NORMAL CLEARING ACTIVITIES.
  THE SLASH FROM THESE DANGER TREES WILL BE DISPOSED OF IN ACCORDANCE WITH THE SLASH DISPOSAL METHOD DESIGNATED FOR
  THE WORK AREA ADJOINING THE AREA FROM WHICH THE DANGER TREES HAVE BEEN REMOVED.

### PROCEDURE FOR OFF-SITE REMOVAL OF STUMPS, CHIPS, AND SLASH

- 1. WHERE OFF-SITE REMOVAL OF STUMPS, CHIPS, OR SLASH IS NECESSARY, ALL MATERIALS WILL BECOME THE PROPERTY OF THE CONTRACTOR. IN ALL CASES, ALL MATERIAL THAT IS REMOVED FROM THE SITE WILL BE DISPOSED ON IN AN ENVIONMENTALLY-ACCEPTABLE MANNER AND IN COMPLIANCE WITH ALL APPLICABLE RULES AND REGULATIONS INCLUDING 6 NYCRR PART 192 AND ALL OTHER INVASIVE SPECIES REGULATIONS.
- 2. THE CONTRACTOR WILL PROVIDE HOFFMAN FALLS WIND LLC WITH A DESCRIPTION AND THE LOCATION OF ALL PROPOSED OFF-SITE DISPOSAL SITES PRIOR TO THE START OF THE PROJECT. THE ENVIRONMENTAL MONITOR (EM) WILL INSPECT ALL PROPOSED OFF-SITE DISPOSAL SITES TO ENSURE THAT THEY ARE SUITABLE AND WILL NOTIFY ORES.

### CULTURAL RESOURCE PROTECTION

- 1. A PRECONSTRUCTION MEETING SHALL BE HELD WITH THE CONTRACTOR TO DISCUSS THE AREAS OF SENSITIVITY, AVOIDANCE
- MEASURES AND THE EXTENT OF THE PROTECTION MEASURES.

  2. NO GRADING OR SIGNIFICANT GROUND DISTURBANCE IS ALLOWED WITHIN ENVIRONMENTALLY SENSITIVE AREAS. SIGNIFICANT
- GROUND DISTURBANCE IS DEFINED AS EXCAVATION OR GRADING MORE THAN 6 INCHES DEEP, GRUBBING OR STUMP REMOVAL, AND TRENCHING WIDER THAN 3 FEET.
- 3. IMPACTS TO ARCHEOLOGICAL AND HISTORIC RESOURCES SHALL BE AVOIDED OR MINIMIZED TO THE EXTENT PRACTICABLE. CONSTRUCTION, INCLUDING SITE CLEARING OR OTHER DISTURBANCE, SHALL NOT BE ALLOWED IN ANY AREAS THAT HAVE NOT BEEN REVIEWED AND APPROVED FOR THE PRESENCE OF CULTURAL RESOURCES.
- 4. THE MAPPED LOCATIONS OF IDENTIFIED ARCHAEOLOGICAL SITES, SURROUNDED BY AN AVOIDANCE BUFFER, ARE IDENTIFIED AS "ENVIRONMENTAL SENSITIVE AREAS" ON THE CONSTRUCTION DRAWINGS AND ARE TO BE MARKED IN THE FIELD BY CONSTRUCTION FENCING WITH SIGNS THAT RESTRICT ACCESS.
- 5. CONTRACTOR MUST COMPLY WITH THE PROJECT UNANTICIPATED DISCOVERY PLAN, WHICH ESTABLISHES PROCEDURES IN THE EVENT THAT RESOURCES OF CULTURAL, HISTORICAL, OR ARCHAEOLOGICAL IMPORTANCE ARE ENCOUNTERED DURING FACILITY CONSTRUCTION.

### TRENCHLESS CROSSING NOTES

- THE CONTRACTOR SHALL ADHERE TO APPROVED CONTINGENCY PLAN/INADVERTENT RELEASE PLAN PRIOR TO COMMENCING ANY TRENCHLESS DRILLING OPERATIONS. IN THE EVENT OF AN INADVERTENT DRILLING MUD RETURN THE CONTRACTOR WILL BE RESPONSIBLE FOR REPORTING THE EVENT IN ACCORDANCE WITH THE 94-C PERMIT.
- 2. TRENCHLESS CROSSINGS ARE TO BE COMPLETED BY HORIZONTAL DIRECTIONAL DRILLING (HDD) OR BORE
- 3. CONTRACTOR SHALL LIMIT TREE CLEARING OVER HDDS AND BORES.
- 4. THE CONTRACTOR SHALL COMPLETE THE HDD IN GENERAL ACCORDANCE WITH THE CONCEPTUAL DRILL PATH SHOWN ON THE DRAWINGS. THE MINIMUM CLEARANCES FROM UTILITIES, STREAMS, WETLANDS, AND PAVED AREAS ARE SHOWN ON THE PLANS.
- 5. CONCEPTUAL ALIGNMENT SHOWN IS FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN EVALUATION BASED UPON AVAILABLE TOOLS, EQUIPMENT, AND MATERIALS PROPOSED FOR USE IN BID PRICE AND GIVEN THE

# Westwood Surveying & Engineering

Phone (952) 937-5150 12701 Whitewater Drive, Suite #300 Fax (952) 937-5822 Minnetonka, MN 55343 Toll Free (888) 937-5150 ww-pc.com

Westwood Surveying and Engineering, P.C.

EOR: Alejandro Alvarado, PE

Hoffman Falls Wind LLC

90 State Street Albany, NY 12207

REVISIONS:

# DATE COMMENT BY CHK APR

0 01/26/2024 ISSUE FOR PERMIT HR HR AL

# Hoffman Falls Wind Project

Madison County, New York

General Notes - 2

ISSUE FOR PERMIT

DATE:

SHEET

01/26/2024

*C*719

719