BEFORE THE MINNESOTA PUBLIC UTILITIES COMMISSION

In the Matter of the Application of Castle Rock Solar, LLC for a Site Permit for the up to 150 MW Castle Rock Solar Project in Dakota County, Minnesota

MPUC Docket No. IP7137/GS-24-267
CAH Docket No. 65-2500-40800

DIRECT TESTIMONY OF ANDREW S. CAMPBELL
ON BEHALF OF CASTLE ROCK SOLAR, LLC

October 10, 2025

I. INTRODUCTION AND QUALIFICATIONS

Q. Please state your name, employer, and business address.

A. My name is Andrew Campbell. I am the Head of Commercial Origination & Market Strategy – North America, at Atlantica Sustainable Infrastructure. My business address is 1553 W Todd Dr, Tempe, Arizona 85283.

Q. Please briefly describe your educational background and professional experience.

A. I graduated from Purdue University with a Bachelor of Science Degree in Engineering and completed Graduate Studies in Engineering at Purdue. I also received a Master of Business Administration from the University of Notre Dame. I served in leadership roles with the Army National Guard for 12 years—from 2001 to 2013. I've worked in the energy industry since 2009, including more than a decade of experience with the Northern Indiana Public Service Company (NIPSCO), and have worked in utility scale solar since 2023. I am Head of Commercial Origination & Market Strategy, responsible for identifying sites for renewable energy facilities, permitting and regulatory efforts, and developing safe, sustainable, and reliable projects.

Q. For whom are you testifying?

A. I am testifying on behalf of Castle Rock Solar, LLC (Castle Rock Solar). As noted in an August 19, 2025 letter filed to the docket, Castle Rock Solar was acquired by Atlantica North America LLC, effective May 5, 2025. Atlantica North America is a wholly owned subsidiary of Atlantica Sustainable Infrastructure PLC (ASI), a global sustainable infrastructure company focused on renewable energy. ASI currently owns 48 assets, including a 2.2 GW portfolio of assets in operation. ASI is a leading owner and operator of renewable energy plants in North America. As the authorized agent of Castle Rock Solar, Atlantica North America will manage ongoing development and construction activities for the Castle Rock Solar Project (the Project).

Q. What is your role with respect to the Project?

A. I lead the team that is responsible for bringing the energy generated by the Project to market.

II. PURPOSE OF TESTIMONY

Q. What is the purpose of your Direct Testimony?

A. I will provide an overview of the Project, updates on the Project schedule, discuss site plan updates and the landscaping plan, and provide an update on coordination with agencies. In addition, I will discuss how Castle Rock Solar will procure panels that will not be harmful to the environment.

Q. What schedules are attached to your Direct Testimony?

A. The following schedules are attached to my Direct Testimony:

- **SCHEDULE A**: Statement of Qualifications
- **SCHEDULE B:** Landscaping Plan
- **SCHEDULE C:** SHPO Concurrence

III. PROJECT OVERVIEW

Q. Please provide a summary of the Project, including the proposed location and proposed site.

A. The Project consists of a proposed up to 150 megawatt (MW) alternating current photovoltaic solar energy generating system and associated facilities in Castle Rock Township, Dakota County, Minnesota.

Q. Why did Castle Rock Solar choose the Project Area as presented in the Application to build the Project?

A. Castle Rock Solar first identified areas of Minnesota with adequate solar resources to host a solar Project, then identified potential locations for a point of interconnection with available capacity. Castle Rock Solar identified the proposed

Project location after determining the existing Xcel Energy Chub Lake to Hampton Corners 345 kV transmission line has enough capacity to interconnect to the Project and it is located within two miles of the City of Farmington. From there, Castle Rock Solar identified areas with enough landowners to voluntarily agree to host the Project. Castle Rock Solar possesses signed landowner agreements for all parcels proposed to host Project facilities. As part of this iterative process, Castle Rock Solar also considered land that may be unavailable or restricted, environmental impacts, construction restrictions such as slopes, soils, and potential recognized environmental concerns, and other landowner preferences. This process included a discussion with landowners regarding potential locations of panels, fences, and access roads.

IV. PROJECT UPDATES

Q. Has the anticipated schedule for the construction of the Project changed from what was contemplated in the Application?

A. Yes. The Permit Application, noted that the Project was expected to be operational by the fourth quarter of 2028. The Project is now expected to be constructed and operational by the fourth quarter of 2029. The updated anticipated Project timeline is as follows:

Activity	Site Permit Application Timeline
Site Permit Issued	First Quarter 2026
Generator Interconnection Agreement (GIA) Execution	First/Second Quarter 2026
Commencement of Construction	First Quarter 2028
Testing and Commissioning	Third / Fourth Quarter 2029
Operation	Fourth Quarter 2029

Q. Do you have any other updates related to the Project?

A. No. There have been no other changes to the Solar Project. As previously noted, Castle Rock Solar is exploring the possibility of seeking a site permit for a Battery

Energy Storage System (BESS) within the Project Area. If Castle Rock Solar decides to add a BESS within the Project Area, Castle Rock Solar will apply separately for a site permit for the BESS, pursuant to Minnesota Statutes chapter 216I.

Q. Do the updates to the design change anything about the anticipated impacts of the Project?

A. The BESS will be evaluated independently under state law, including independent environmental review. Accordingly, any potential impacts from the BESS do not change the anticipated impacts from this Project.

V. SITE PLAN UPDATES

Q. Have there been any updates to the site plan since the Application was submitted?

A. Yes. As identified in a letter filed to the docket on April 22, 2025, Castle Rock Solar signed lease agreements with the landowner of PID 070090052013 and PID 070090029010 on April 16, 2025, resulting in the addition of 77 acres of land. With this addition, the total Project Area is 1,384 acres.

Q. The Application notes that on-site wetland delineations for the Application Project Area were completed, and a Notice of Decision (NOD) for boundary concurrence was issued for the delineation of wetlands within the Application Project Area on February 23, 2024 (Application at 97, Appendix K). Has a wetland delineation been completed for the additional 77 acres of land?

A. Yes. A field study for the delineation of wetlands on the additional 77 acres has been completed. On October 3, 2025, the Dakota Soil and Water Conservation District (SWCD), as the local government unit administering the Wetland Conservation Act, together with representatives from the Technical Evaluation Panel (TEP) reviewed the delineated wetland boundaries. Dakota SWCD and the

TEP recommended some updates to the wetland boundaries to reduce the size of the delineated wetlands in some areas. The reduction in wetland size means the Project will continue to avoid wetland impacts in this area. Castle Rock Solar continues to work with Dakota SWCD and the TEP on finalizing the wetland delineation boundaries and anticipates receiving a NOD concurring with the delineated wetland boundaries in the near future.

Q. Do you have other updates to the plan for the site?

A. Yes. Since the Application was submitted, Castle Rock Solar has developed a landscape plan by working with landowners living directly adjacent to the Project.

Q. Can you describe the current landscaping plan?

A. Yes. The plan currently includes two segments of landscaping along the northern boundary of the Project that are approximately 2,071 and 2,351 feet in length. There are three segments along 230th Street west that are approximately 1,861 feet, 573 feet, and 589 feet in length. There is one segment along 240th Street that is approximately 470 feet in length. A copy of the current landscaping plan is attached as **Schedule B.** Castle Rock Solar will continue discussions with adjacent landowners regarding vegetative screening as needed.

VI. COORDINATION WITH SHPO AND AREA LANDOWNERS

Q. Has Castle Rock Solar completed any additional studies or agency coordination since filing its Application?

A. Yes. Castle Rock Solar has coordinated with the Minnesota State Historic Preservation Office (SHPO).

Q. Do you have any updates regarding SHPO coordination since the Application was filed?

A. Yes. The Project had previously been reviewed, and SHPO provided a letter, on December 12, 2024 (See Site Permit Application, Appendix C). After that date, an

additional 77 acres were added to the Project Area. By letter dated March 19, 2025, the Commission authorized the Applicants to initiate formal consultation with Minnesota SHPO. Accordingly, on July 29, 2025, Castle Rock submitted a report, *Phase I Archaeological Survey Addendum Report for Castle Rock Solar Project, Dakota County, Minnesota*, to SHPO for the additional 77 acres that were not previously reviewed by SHPO. On September 5, 2025, SHPO responded, concluding that, "[b]ased on the results of the survey, we have determined that there are no known or suspected archaeological resources that will be affected by the revised project and that there are no properties listed in the National or State Registers of Historic Places, or within the Historic Sites Network, that will be affected by this project." A copy of the SHPO response is attached as **Schedule C**.

VII. TCLP TESTING

Q. Can you address any concerns members of the public may have regarding the potential for photovoltaic (PV) panels to release hazardous materials?

A. Yes. PV solar panels are nearly entirely encapsulated in glass and aluminum, which are not hazardous materials. If a PV solar panel is broken at the Project, the broken pieces and the remainder of the panel will be recycled or disposed of and replaced, thereby further reducing the risk for hazardous materials contained in the PV solar panels to leach into the environment. PV solar panels may, however, contain small amounts of metals that are, by themselves, characterized as hazardous materials by the United States Environmental Protection Agency (EPA). When panels are disposed of at recycling facilities or landfills, the characteristics of those elements and the likelihood that they will leach from the PV solar panels into the environment must be determined and reported. Many manufacturers of PV solar panels are taking proactive actions to determine the potential for the metals contained in PV solar panels to leach from the panels during operation of the panel or if it is broken into pieces. The EPA-approved method for determining whether a hazardous substance is likely to leach from a manufactured product into the

ground and ground water is the Toxicity Characteristic Leaching Procedure (TCLP). While it is too early to identify the PV panel manufacturer that will be used for the Project, Castle Rock Solar will ensure that TCLP testing has been performed on the panel models used for the Project. As noted, TCLP testing will confirm that no hazardous materials (including arsenic, barium, cadmium, chromium, lead, mercury, selenium or silver) will leach from the tested products resulting in leachate concentrations above the EPA's regulatory thresholds.

VIII. CONCLUSION

Q. Does this conclude your Direct Testimony?

A. Yes.

Schedule A

Andrew S. Campbell

andrew.campbell@atlantica.com

Education & Training

University of Notre Dame – Master of Business Administration
Purdue University Northwest – Bachelor of Science Engineering & Graduate Studies in Engineering

Highlights

- Energy expertise across electric, natural gas, transmission, and utility sectors, plus deep knowledge of the broader U.S. energy marketplace.

- Experience in transmission development, including a 70-mile 765 kilovolt (kV) joint venture line, two 345kV lines, and multiple substations/switchyards.

- Led the siting, development, and execution of turnkey generation and infrastructure projects, including combined cycle gas turbine (CCGT) plants, renewables, storage assets, gas infrastructure, and thermal upgrades.

- Trusted leader in regulatory, policy, and stakeholder engagement—advancing initiatives in renewable energy, distributed generation, utility rates/tariffs, and emerging hyperscale/data center loads

Professional Experience

Atlantica Sustainable Infrastructure | *Sep 2025 – Present*
Head of Commercial Origination & Market Strategy – North America

– Leadership of an organization charged with defining growth strategy and siting opportunities, market policy, regulatory, and financial modeling.

– Developed and fostered strategic relationships with utilities and other interested parties to link market insights with site selection and support project development teams.

–

Hanwha Renewables / Hanwha Qcells USA | *Dec 2023 – Sep 2025*
Senior Director – Power Marketing & Origination; Development – North America

- Originated utility-scale solar and storage power purchase agreements (PPAs).

- Built partnerships with stakeholders to drive sustainable growth. .

NiSource – Northern Indiana Public Service Company (NIPSCO) | *Jun 2009 – Jan 2024*
Director – Portfolio Planning & Origination | *Sep 2017 – Jan 2024*
Energy Supply & Optimization / Corporate Strategy

- Directed utility's coal-to-clean transition, leading strategy for renewables, storage, and flexible natural gas; over 4 GW of projects, representing $4B in utility investment opportunity.

Schedule A

Andrew S. Campbell

andrew.campbell@atlantica.com

- Oversaw $1B+ annual regulatory recovery, covering forecasting, integrated resource planning (IRP), hedging, settlements, and gas/electric optimization in the Midcontinent Independent System Operator (MISO) region.

- Advanced commercial & industrial customer solutions through innovative rates, riders, and regulatory approvals.

- Introduced environmental programs including renewable energy credits (RECs), renewable natural gas (RNG), and carbon offsets; contributed to hydrogen pilots.

- Influenced enterprise capital decisions via Capital Allocation Committee and Utility Transformation Program.

Earlier Roles at NiSource & NIPSCO | *Jun 2009 – Sep 2017*

- Manager – Planning & Regulatory Support

- Portfolio Manager (Rotational)

- Manager – Operations & Market Support

- Operations Engineer I & II

Hadady Corporation | *Dec 2005 – Jun 2009*

- Advanced through multiple engineering roles, ultimately leading quality control and Six Sigma initiatives. Oversaw new 50,000 sq. ft. facility construction and commissioning.

Army National Guard | *Feb 2001 – Feb 2013*

LEGEND - LANDSCAPE PLAN	
	DESCRIPTION
(green line)	SCREEN PLANTING

LEGEND - GENERAL	
	DESCRIPTION
(symbol)	FENCE
(symbol)	PHOTOVOLTAIC PANEL
(symbol)	INVERTER
(symbol)	DNO

Revision	By	Appd.	YY.MM.DD

Issued	By	Appd.	YY.MM.DD

CONTACT:
Chip DeAngelo
Senior Environmental Scientist
Direct: 708 627 8023
Mobile: 779 324 1023
david.deangelo@stantec.com

Stantec

733 Marquette Avenue, Suite 1000
Minneapolis, MN 55402
www.stantec.com

Client/Project

CASTLE ROCK SOLAR

CASTLE ROCK TOWNSHIP, MN

File Name: 193709215 Castlerock Solar Landscape Plan	RB	CD	RB	4.23.2025
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Title

OVERALL LANDSCAPE SCREENING PLAN

Project No.	Scale	
193709215	AS SHOWN	
Drawing No.	Sheet	Revision
1	1 of 6	0

V:\1938\resource\LA\Projects (Saved Locally)\193709215 Castlerock Solar\CAD\193709215 Castlerock Solar Landscape Plan.dwg
2025/04/23 10:37 AM By: Burand, Rachel

ORIGINAL SHEET - ANSI D

LEGEND - LANDSCAPE PLAN

	DESCRIPTION
(green line)	SCREEN PLANTING

LEGEND - GENERAL

	DESCRIPTION
(fence symbol)	FENCE
(panel symbol)	PHOTOVOLTAIC PANEL
(inverter symbol)	INVERTER
(hatch symbol)	DNO

Revision	By	Appd.	YY.MM.DD

Issued	By	Appd.	YY.MM.DD

CONTACT:
Chip DeAngelo
Senior Environmental Scientist
Direct: 708 627 8023
Mobile: 779 324 1023
david.deangelo@stantec.com

Stantec

733 Marquette Avenue, Suite 1000
Minneapolis, MN 55402
www.stantec.com

Client/Project

CASTLE ROCK SOLAR

CASTLE ROCK TOWNSHIP, MN

File Name: 193709215 Castlerock Solar Landscape Plan	RB	CD	RB	4.23.2025
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Title

LANDSCAPE SCREENING PLAN

Project No.	Scale	
193709215	AS SHOWN	
Drawing No.	**Sheet**	**Revision**
2	2 of 6	0

V:\1938\resource\LA Projects (Saved Locally)\193709215 Castlerock Solar\CAD\193709215 Castlerock Solar Landscape Plan.dwg
2025/04/23 10:37 AM By: Burand, Rachel

ORIGINAL SHEET - ANSI D

LEGEND - LANDSCAPE PLAN	
	DESCRIPTION
	SCREEN PLANTING

LEGEND - GENERAL	
	DESCRIPTION
	FENCE
	PHOTOVOLTAIC PANEL
	INVERTER
	DNO

Revision	By	Appd.	YY.MM.DD

Issued	By	Appd.	YY.MM.DD

CONTACT:
Chip DeAngelo
Senior Environmental Scientist
Direct: 708 627 8023
Mobile: 779 324 1023
david.deangelo@stantec.com

Stantec

733 Marquette Avenue, Suite 1000
Minneapolis, MN 55402
www.stantec.com

Client/Project

CASTLE ROCK SOLAR

CASTLE ROCK TOWNSHIP, MN

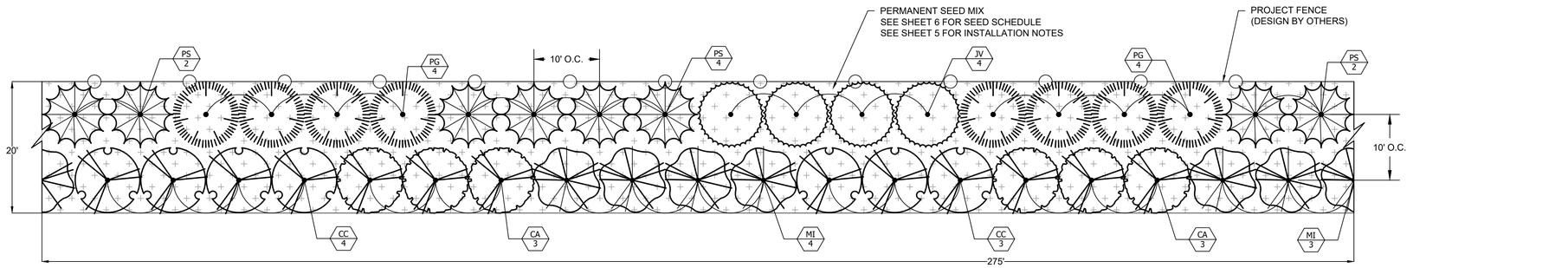
File Name: 193709215 Castlerock Solar Landscape Plan	RB Dwn.	CD Chkd.	RB Dsgn.	4.23.2025 YY.MM.DD

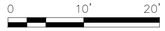
Title

LANDSCAPE SCREENING PLAN

Project No.	Scale	
193709215	AS SHOWN	
Drawing No.	**Sheet**	**Revision**
3	3 of 6	0

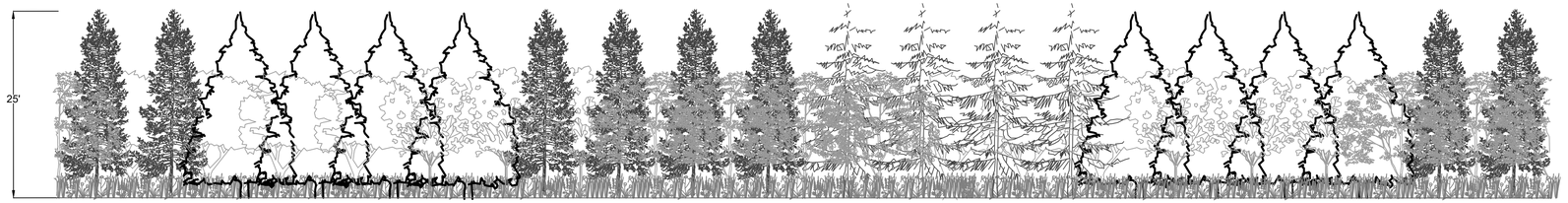
PLAN OF TYPICAL 200' SEGMENT OF SCREEN PLANTING

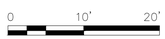




SECTION VIEW OF TYPICAL 200' SEGMENT OF SCREEN PLANTING

NOTE: SECTION VIEW REPRESENTS PLANTS 10-15 YEARS AFTER PLANTING.





PLANT SCHEDULE

QTY PER 200' SEGMENT	SYMBOL	BOTANICAL NAME	COMMON NAME	ZONE	APPROXIMATE MATURE HEIGHT	APPROXIMATE MATURE SPREAD	AVG. ANNUAL GROWTH	SPECIFICATION	NOTES
CONIFEROUS TREES (20)									
4	JV	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	2 TO 7	40' TO 50'	10' TO 20'	12" TO 24"	MIN. 4' HEIGHT - CONTAINER / B&B	SPACE PLANTS AS SHOWN IN TYPICAL LAYOUT
8	PS	PINUS STROBUS	WHITE PINE	3 TO 8	50' TO 80'	20' TO 40'	12" TO 24"	MIN. 4' HEIGHT - CONTAINER / B&B	
8	PG	PICEA GLAUCA	WHITE SPRUCE	2 TO 6	40' TO 60'	10' TO 20'	12" TO 24"	MIN. 4' HEIGHT - CONTAINER / B&B	
DECIDUOUS TREES (20)									
6	CA	CORNUS ALTERNIFOLIA	PAGODA DOGWOOD	3 TO 7	15' TO 25'	20' TO 32'	12" TO 18"	MIN. 4' HEIGHT - CONTAINER / B&B	SPACE PLANTS AS SHOWN IN TYPICAL LAYOUT
7	MI	MALUS IOENSIS	PRAIRIE CRAB APPLE	3 TO 8	20' TO 25'	20' TO 25'	8" TO 16"	MIN. 4' HEIGHT - CONTAINER / B&B	
7	CC	CERCIS CANADENSIS	EASTERN REDBUD	4 TO 8	20' TO 30'	25' TO 35'	12" TO 24"	MIN. 4' HEIGHT - CONTAINER / B&B	

QUANTITIES BY SEGMENT

TOTAL QTY	SYMBOL	SEGMENT: 1	2	3	4	5	6
LINEAR FT		2,071	2,351	1,861	573	589	470
CONIFEROUS TREES (792)							
158	JV	41	47	37	11	12	9
317	PS	83	94	74	23	24	19
317	PG	83	94	74	23	24	19
TOTAL TREES PER SEGMENT:		*207*	*235*	*186*	*57*	*59*	*47*
DECIDUOUS TREES (792)							
237	CA	62	71	56	17	18	14
277	MI	72	82	65	20	21	16
277	CC	72	82	65	20	21	16
TOTAL TREES PER SEGMENT:		*207*	*235*	*186*	*57*	*59*	*47*

Revision	By	Appd.	YY.MM.DD

Issued	By	Appd.	YY.MM.DD

CONTACT:
Chip DeAngelo
Senior Environmental Scientist
Direct: 708 627 8023
Mobile: 779 324 1023
david.deangelo@stantec.com

Stantec
733 Marquette Avenue, Suite 1000
Minneapolis, MN 55402
www.stantec.com

Client/Project
CASTLE ROCK SOLAR

CASTLE ROCK TOWNSHIP, MN

File Name: 193709215 Castlerock Solar Landscape Plan | RB Dwn. | CD Chkd. | RB Dsgn. | 4.23.2025 YY.MM.DD

Title
PLANT SCHEDULE & DETAILS

Project No. 193709215
Scale AS SHOWN
Drawing No. 4
Sheet 4 of 6
Revision 0

ORIGINAL SHEET - ANSI D

SEED INSTALLATION NOTES

CONTRACTOR WILL BE RESPONSIBLE FOR ESTABLISHING PERENNIAL VEGETATION WITHIN THE LANDSCAPE SCREENING AREA WITHIN 20 FEET OF THE FENCE LINE IN AREAS WHERE SCREENING TREES AND SHRUBS ARE TO BE INSTALLED. CONTRACTOR WILL PREPARE A SEEDBED, SEED, AND MAINTAIN THE PERENNIAL VEGETATION THROUGHOUT THE MAINTENANCE PERIOD. THE FOLLOWING SPECIFICATIONS ARE INTENDED TO DESCRIBE THE NECESSARY CONDITIONS REQUIRED TO ENSURE ADEQUATE GERMINATION AND ESTABLISHMENT OF THIS SEED MIX. A VARIETY OF METHODS CAN BE USED TO ACHIEVE THESE CONDITIONS. PROPOSED METHODS MUST BE APPROVED PRIOR TO SEED INSTALLATION.

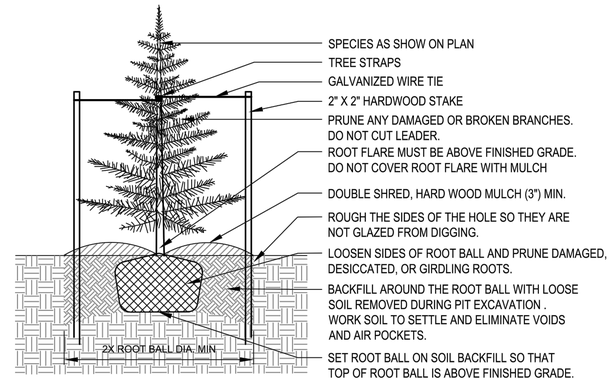
1. SEED PLACEMENT SHALL BE 1/8TH OF AN INCH OR LESS. MANY OF THE SPECIES INCLUDED IN THIS MIX HAVE VERY SMALL SEEDS AND WILL NOT GERMINATE IF PLANTED TOO DEEP.
2. SEED MUST BE PLACED IN DIRECT CONTACT WITH THE SOIL, SEEDING ON TOP OF OR INTO EXCESS THATCH (LESS THAN 70 PERCENT OF THE SOIL VISIBLE) IS NOT ACCEPTABLE.
3. SEED BED MUST BE UNIFORM AND LEVEL, FREE OF CLODS, ROCKS, CLUMPS, RUTS, AND OTHER SURFACE DISRUPTIONS THAT WOULD PREVENT ACCURATE PLACEMENT BY SEEDING EQUIPMENT OR ALLOW SEED TO FALL BETWEEN CRACKS OR LOOSE CLUMPS.
4. SEED BED MUST BE FREE OF ACTIVELY GROWING WEEDS.
5. SURFACE SOILS MUST BE FREE FROM COMPACTION AND MEASURE LESS THAN 200 PSI WHEN TESTED WITH A PENETROMETER TO A DEPTH OF 6 INCHES.
6. FIELDS TO BE SEEDED WITH A BROADCAST SPREADER SHALL BE PREPARED TO RECEIVE THE SEED, ROLLED AFTER SEEDING, OR BOTH TO ENSURE ADEQUATE SEED SOIL CONTACT.
7. SEEDS INSTALLED WITH A DRILL WILL HAVE ROWS NO WIDER THAN 8 INCHES.
8. FIELDS TO BE SEEDED WITH A DRILL WILL BE FIRM ENOUGH SO THE PLANTING DISKS DO NOT SINK LEAVING THE SEED AT THE BOTTOM OF A FURROW.
9. SEEDS INSTALLED WITH A NO TILL DRILL WITH WILL HAVE CULTIVATORS SET TO ADEQUATELY LOOSEN SOIL WITHOUT CREATING EXCESSIVE CLODS OR FURROWS.
10. SEEDS SHALL NOT BE INSTALLED OR SEEDBED PREPARED WHEN SOILS ARE WET OR MUDDY.
11. THIS SEED CAN BE INSTALLED IN THE SPRING WINDOW OF MARCH 1 - MAY 1 OR THE FALL WINDOW FROM OCTOBER 1 - DECEMBER 1. DORMANT SEEDING IN FROZEN CONDITIONS IS ACCEPTABLE PROVIDING ADEQUATE GROUND PREPARATION IS ACHIEVED.
12. SEED MUST BE INSTALLED AT THE RATE PRESCRIBED AND EVENLY DISTRIBUTED ACROSS THE SEEDBED.
13. SEED SHALL BE CERTIFIED TO BE TRUE TO SPECIES AND FREE FROM NOXIOUS WEEDS.
14. SEEDING RATE WILL BE MEASURE IN PURE LIVE SEED AND BULK RATES ADJUSTED TO ACHIEVE RECOMMENDED PLANTING RATES.
15. NO SUBSTITUTIONS IN SPECIES OR RATES SHALL BE MADE WITHOUT WRITTEN APPROVAL FROM AN APPROVED INVENERGY REPRESENTATIVE.
16. AREAS LARGER THAN ONE SQUARE METER WILL BE RE-SEEDED AT THE CONTRACTORS EXPENSE.

PLANTING SEQUENCE

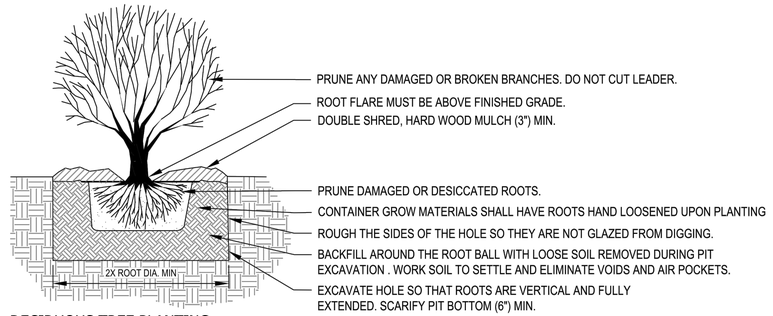
- DIG THE PLANTING HOLE A MINIMUM OF 2x WIDTH OF ROOTBALL FOR AT LEAST THE FIRST 12 INCHES OF DEPTH. BELOW 12 INCHES, DIG HOLE WIDE ENOUGH TO PERMIT ADJUSTING. DO NOT DIG THE HOLE DEEPER THAN ROOT BALL DEPTH.
- HOLES FOR INDIVIDUAL PLANTINGS SHALL BE EXCAVATED TO PRODUCE VERTICAL SIDES AND FLAT BOTTOMS. ALL PLANTING HOLES SHALL HAVE ROUGHED, SCARIFIED SIDES AND BOTTOMS.
- LIFT AND SET THE TREE BY ROOT BALL ONLY. DO NOT LIFT USING THE TREE TRUNK AND DO NOT USE TREE TRUNK AS A LEVER.
- SET THE TOP OF THE ROOT BALL LEVEL WITH THE SOIL SURFACE OR SLIGHTLY HIGHER.
- BACKFILL WITH EXISTING SOIL THAT HAS BEEN WELL-TILLED OR BROKEN UP.
- PRUNING SHALL BE LIMITED TO DEAD, DISEASED, OR BROKEN LIMBS ONLY AND SHALL BE IN ACCORDANCE WITH ANSI A300 SPECIFICATIONS.
- REMOVE ANY TRUNK WRAP REMAINING AT TIME OF PLANTING. NO WRAPS SHALL BE PLACED ON TRUNK.
- APPLY GRANULAR MYCORRHIZALINOCULANT SOIL ENHANCER AT EACH PLANT PER MANUFACTURER RECOMMENDATIONS.
- THE CONTRACTOR SHALL RESTORE AREAS DISTURBED BY THE INSTALLATION OF SHRUBS AND TREES.

VEGETATIVE SCREENING NOTES: SHRUB AND TREE INSTALLATION

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYOUT OF ALL WORK COVERED UNDER THESE PLANS.
2. ALL PLANT MATERIAL, UNLESS OTHERWISE SPECIFIED, SHALL BE UNIFORMLY BRANCHED AND HAVE A VIGOROUS ROOT SYSTEM. PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS, AND FREE FROM DEFECTS, DECAY, DISEASES, INSECT PEST EGGS, AND ALL FORMS OF INFESTATION. ALL PLANT MATERIAL SHALL BE FRESH, FREE FROM TRANSPLANT SHOCK OR VISIBLE WILT. PLANTS DEEMED UNHEALTHY SHALL BE REJECTED.
3. ALL PLANT MATERIAL SHALL MEET THE MINIMUM SPECIFICATIONS AND STANDARDS DESCRIBED IN THE CURRENT ISSUE OF “THE AMERICAN STANDARD FOR NURSERY STOCK,” PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, 1250 I STREET, N.W., SUITE 500, WASHINGTON, D.C. 20005.
4. ALL CONTAINER STOCK SHALL HAVE BEEN PROPAGATED IN A CONTAINER LONG ENOUGH FOR THE ROOT SYSTEM TO HAVE DEVELOPED SUFFICIENTLY TO HOLD ITS SOIL. CONTAINER STOCK WITH POORLY DEVELOPED ROOT SYSTEMS SHALL NOT BE ACCEPTED.
5. PLANTS SHALL BE PREPARED FOR SHIPMENT IN A MANNER THAT SHALL NOT CAUSE DAMAGE TO THE BARK, BUDS, BRANCHES, STEMS, OR OVERALL SHAPE OF THE STOCK. CONTAINER GROWN PLANTS SHALL BE TRANSPORTED IN THE CONTAINERS IN WHICH THEY HAVE BEEN GROWN.
6. CONTRACTOR IS RESPONSIBLE FOR ANY NECESSARY FIELD PREPARATIONS WHERE PLANTINGS WILL OCCUR.
7. PLANTS NOT INSTALLED ON THE DAY OF ARRIVAL AT THE SITE SHALL BE STORED AND PROTECTED BY THE CONTRACTOR. OUTSIDE STORAGE AREAS SHALL BE SHADED AND PROTECTED FROM THE WIND AND SUN. PLANTS STORED ON SITE SHALL BE PROTECTED FROM ANY DRYING AT ALL TIMES BY COVERING THE BALLS OR ROOTS WITH MOIST SAWDUST, WET BURLAP, WOOD CHIPS, SHREDDED BARK, PEAT MOSS, OR OTHER SIMILAR MULCHING MATERIAL, OR OTHER METHODS APPROVED BY OWNER.
8. PLANT SUBSTITUTIONS MAY BE MADE BASED ON AVAILABILITY BUT MUST BE OF SIMILAR SIZE AND LANDSCAPE (SCREENING) VALUE. ALL SUBSTITUTIONS MUST BE APPROVED BY THE OWNER OR OWNER'S REPRESENTATIVE.
9. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD.
10. NO PLANTING SHALL OCCUR WHEN THE SOIL IS FROZEN.



1 / 11 CONIFEROUS TREE PLANTING
NOT TO SCALE



2 / 11 DECIDUOUS TREE PLANTING
NOT TO SCALE

PROJECT ACCEPTANCE, MAINTENANCE, AND WARRANTY

1. PLANTED AREAS WILL BE INSPECTED AT COMPLETION OF INSTALLATION AND ACCEPTED (INITIAL ACCEPTANCE) WITH SPECIFIED MATERIALS AND INSTALLATION REQUIREMENTS. FOLLOWING INITIAL ACCEPTANCE OF THE COMPLETE INSTALLATION OF ALL PLANT MATERIAL, THE WARRANTY PERIOD WILL BEGIN.
2. CONTRACTOR IS RESPONSIBLE FOR ANY SOIL DAMAGE CREATED BY VEHICLES OR INSTALLATION PROCEDURES THAT ALTER EXISTING GRADES. THIS INCLUDES SOIL RUTS OR DEPRESSIONS. CONTRACTOR SHALL RESTORE AREAS DISTURBED.
3. CONTRACTOR SHALL MAINTAIN INSTALLED SHRUBS AND TREES WITHIN THE PROJECT LIMITS UNTIL FINAL ACCEPTANCE OF THE PROJECT BY THE FINAL ACCEPTANCE SHALL BE AT THE END OF THE WARRANTY PERIOD. MAINTENANCE SHALL INCLUDE PRUNING, CULTIVATING, WEEDING, WATERING, AND METHODS NECESSARY TO MAINTAIN PLANTS FREE OF INSECT, DISEASE, OR OTHER HERBIVORY DAMAGE UNTIL ACCEPTANCE. MAINTENANCE PERIOD SHALL BE ASSUMED TO CONTINUE THROUGH THE DURATION OF THE WARRANTY PERIOD.
4. WARRANT PLANT MATERIAL TO REMAIN ALIVE AND BE IN HEALTHY, VIGOROUS CONDITION FOR A PERIOD OF THREE (3) YEARS AFTER INITIAL ACCEPTANCE. IF PLANTING TAKES PLACE OVER MULTIPLE PLANTING WINDOWS, THIS WARRANTY WILL REMAIN IN AFFECT ON ALL PLANT MATERIAL BASED ON THE WARRANTY PERIOD OF THE MOST RECENTLY INSTALLED PLANT MATERIAL.
5. REMOVE AND IMMEDIATELY REPLACE ALL PLANTS, AS DETERMINED BY THE OWNER'S REPRESENTATIVE, TO BE UNSATISFACTORY DURING THE INITIAL PLANTING INSTALLATION.
6. REPLACE AT ONCE, IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS, ALL PLANTS THAT ARE DEAD OR, AS DETERMINED BY THE OWNER'S REPRESENTATIVE, OR ARE IN SEVERELY UNHEALTHY CONDITION WITHIN THE WARRANTY PERIOD. REPLACEMENTS TO BE INSTALLED AT NEXT BEST PLANTING SEASON.
7. TREE STAKING SHOULD BE REMOVED AFTER ONE COMPLETE GROWING SEASON. IF STAKING IS REQUIRED ON REPLACED WARRANTED MATERIAL AT THE TIME OF WARRANTY PLANTING, THESE STAKES SHALL BE REMOVED AFTER ONE COMPLETE GROWING SEASON FOLLOWING INSTALLATION.
8. CONTRACTOR IS RESPONSIBLE FOR PROVIDING HERBIVORY AND DEER PROTECTION DURING THE MAINTENANCE AND WARRANTY PERIOD. REPLACEMENT OF PLANTS DUE TO DAMAGE FROM HERBIVORY WILL BE AT THE CONTRACTOR'S EXPENSE.
9. UPON FINAL ACCEPTANCE, THE OWNER WILL ASSUME PLANT MAINTENANCE. LANDSCAPE SCREENING TREES AND SHRUBS WILL BE INCLUDED IN THE ANNUAL MONITORING PER THE VEGETATION MANAGEMENT PLAN. OWNER WILL REPLACE ANY REQUIRED VEGETATIVE COVER THAT FAILS TO ESTABLISH OR DIES DURING THE LIFE OF THE PROJECT.

Revision	By	Appd.	YY.MM.DD

Issued	By	Appd.	YY.MM.DD

CONTACT:
Chip DeAngelo
Senior Environmental Scientist
Direct: 708 627 8023
Mobile: 779 324 1023
david.deangelo@stantec.com

Stantec
733 Marquette Avenue, Suite 1000
Minneapolis, MN 55402
www.stantec.com

Client/Project
CASTLE ROCK SOLAR

CASTLE ROCK TOWNSHIP, MN

File Name: 193709215 Castlerock Solar Landscape Plan | RB Dwn. | CD Chkd. | RB Dsgn. | 4.23.2025 YY.MM.DD

Title
LANDSCAPE PLANTING NOTES & DETAILS

Project No.	Scale	
193709215	AS SHOWN	
Drawing No.	**Sheet**	**Revision**
5	5 of 6	0

ORIGINAL SHEET - ANSI D

Castlerock Low Grow Native / Non-Native Graminoid Seed Mix

Common Name	Scientific Name	Sun Exposure[2]	Ounces per Acre
Western Wheatgrass	*Pascopyrum smithii Endophyte Free Variety*	SU	15
Path Rush	*Juncus tenuous*	SU PS	0.2
Side Oats	*Bouteloua curtipendula*	SU PS	32
Little Bluestem	*Schizachyrium scoparium*	SU PS	32
Prairie June Grass	*Koeleria macrantha*	SU PS	2
Kentucky Bluegrass	*Poa pratensis Balin Endophyte Free Variety*	SU PS	7
Redtop	*Agrosostis alba/Agrostis gigantea R Endophyte Free Variety*	SU PS	1
Creeping Red Fescue	*Festuca rubra Endophyte Free Variety*	SU PS	20
Plains Oval Sedge	*Carex brevior*	SU PS SH	2
Canada Wild Rye	*Elymus canadensis Endophyte Free Variety*	SU PS	4
Common Spiderwort	*Tradescantia ohiensis*	SU PS	0.1
Roundhead Lespedeza	*Lespedeza capitata*	SU PS	0.1
Purple Coneflower	*Echinacea pallida*	SU	0.1
Stiff Goldenrod	*Oligoneuron rigidum*	SU PS	0.1
Nodding Wild Onion	*Allium cernuum*	SU PS	0.5
Partridge Pea	*Chamaecrista fasciculata*	SU PS	4
Sand Coreopsis	*Coreopsis lanceolata*	SU PS	4
White Prairie Clover	*Dalea candida*	SU PS	2
Purple Prairie Clover	*Dalea purpurea*	SU	2
Black-eyed Susan	*Rudbeckia hirta*	SU PS	6
Purple Coneflower	*Echinacea purpurea*	SU	2
Golden Alexanders	*Zizia aurea*	SU PS	1
Mexican hat	*Ratibida columnifera*	SU	2
Clover	*Trifolium spp.*	SU PS	8

[1]This mix represents the designed and intended list to be installed, final species composition and rates subject to minor alterations due to market availability and Zoning Administrator approval.

[2]Sun exposure, SU = Full Sun, PS – Part Shade, as reported in Minnesota Department of Transportation "*Native seed mix design worksheet*" available online at https://www.dot.state.mn.us/environment/erosion/vegetation.html

NOTES:

1. SEEDED AREAS WILL BE MAINTAINED THROUGH THE LIFE OF THE PROJECT.
2. DURING THE ESTABLISHMENT PHASE (YEARS 1-3), MAINTENANCE WILL CONSIST OF MOWING AS NEEDED TO ENSURE ADEQUATE SUNLIGHT REACHES THE SEEDLINGS AND TO PREVENT INCOMPATIBLE SPECIES FROM FLOWERING OR SEEDING. TYPICALLY 3-4 MOWINGS YEAR 1, 2-3 MOWINGS YEAR 2 AND 2-3 MOWINGS YEAR 3. MOWINGS SHOULD OCCUR WHEN THE VEGETATION REACHES A HEIGHT OF 20" AND BE CUT TO A HEIGHT OF 6 INCHES.
3. VEGETATION SHALL BE MONITORED FOR THE PRESENCE OF PERENNIAL INCOMPATIBLE SPECIES AND TREATED TO PREVENT THEIR ESTABLISHMENT AS NEEDED BY LICENSED PESTICIDE APPLICATORS FOLLOWING ALL LABEL RECOMMENDATIONS.
4. MAINTENANCE PHASE (YEARS 4-30) WILL CONSIST OF ANNUAL OR BIENNIAL MOWING AND HERBICIDE TREATMENTS AS NEEDED TO CONTROL INCOMPATIBLE SPECIES. VEGETATION SHALL BE CUT TO A HEIGHT OF 6-8 INCHES.
5. INCOMPATIBLE SPECIES ARE DEFINED AS SPECIES THAT, IF ALLOWED TO ESTABLISH, DO NOT SUPPORT THE LOW MAINTENANCE AND FUNCTIONAL OBJECTIVES OF THE PROJECT DUE TO CHARACTERISTICS INCLUDING BUT NOT LIMITED TO HEIGHT, NOXIOUS OR INVASIVE STATUS, AND GROWTH RATE.

V:\1938\resource\LA\Projects (Saved Locally)\193709215 Castlerock Solar\CAD\193709215 Castlerock Solar Landscape Plan.dwg
2025/04/23 10:38 AM By: Burand, Rachel

Revision	By	Appd.	YY.MM.DD

Issued	By	Appd.	YY.MM.DD

CONTACT:
Chip DeAngelo
Senior Environmental Scientist
Direct: 708 627 8023
Mobile: 779 324 1023
david.deangelo@stantec.com

Stantec

733 Marquette Avenue, Suite 1000
Minneapolis, MN 55402
www.stantec.com

Client/Project
CASTLE ROCK SOLAR
CASTLE ROCK TOWNSHIP, MN

File Name: 193709215 Castlerock Solar Landscape Plan	RB	CD	RB	4.23.2025
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Title
SEED MIXES

Project No.	Scale	
193709215	AS SHOWN	
Drawing No.	Sheet	Revision
6	6 of 6	0

ORIGINAL SHEET - ANSI D

DEPARTMENT OF ADMINISTRATION
STATE HISTORIC PRESERVATION OFFICE

September 5, 2025

Frederick Redell
Atlantica EVP North America
Atlantica Development Company LLC

RE: Castle Rock Solar Project – Addendum
Construction of a 150 megawatt-alternating-current photovoltaic electricity-generating facility and associated infrastructure
Castle Rock Twp, Dakota County
SHPO Number: 2025-0144

Dear Frederick Redell:

Thank you for continuing consultation on the above referenced project. As previously stated, this project will require a Minnesota Public Utilities Commission site permit. Therefore, the submitted information has been reviewed pursuant to the responsibilities given the State Historic Preservation Office by the Minnesota Historic Sites Act (138.665-666). If this project will be located on non-federal public land, the project will also be subject to review under the Minnesota Field Archaeology Act (138.40).

We previously provided comments on this project in a letter dated December 12, 2024. You have now advised us that the project has been revised, and that an additional 77 acres has been added to the project area. We have reviewed the submitted report, *Phase I Archaeological Survey Addendum Report for Castle Rock Solar Project, Dakota County, Minnesota* (July 29, 2025) as prepared by Stantec. Based on the results of the survey, we have determined that there are no known or suspected archaeological resources that will be affected by the revised project and that there are no properties listed in the National or State Registers of Historic Places, or within the Historic Sites Network, that will be affected by this project.

Please note that this comment letter does not address the requirements of Section 106 of the National Historic Preservation Act of 1966 and 36 CFR § 800. If this project is considered for federal financial assistance, or requires a federal permit or license, then review and consultation with our office will need to be initiated by the lead federal agency. Be advised that comments and recommendations provided by our office for this state-level review may differ from findings and determinations made by the federal agency as part of review and consultation under Section 106.

If you have any questions regarding our review of this project, please contact Kelly Gragg-Johnson, Environmental Review Specialist, at kelly.graggjohnson@state.mn.us.

Sincerely,

Amy Spong
Deputy State Historic Preservation Officer