- APPENDIX A EARTHWORK CALCULATIONS
- APPENDIX B SOILS INFORMATION
- APPENDIX C SPILL PREVENTION, CONTROL AND COUNTERMEASURE PLAN
- APPENDIX D CDPS PERMIT APPLICATION
- APPENDIX E SAMPLE FORMS
- APPENDIX F FLOOD RATE INSURANCE MAP

Include GEC Plan w/ final / field version



OWNER'S CERTIFICATION

"The owner will comply with the requirements of the Erosion and Stormwater Quality Control Plan including temporary BMP inspection requirements and final stabilization requirements. I acknowledge the responsibility to determine whether the construction activities on these plans require Colorado Discharge Permit System (CDPS) permitting for Stormwater discharges associated with Construction Activity."

Darnell Everett JSI Construction Group LLC. Date _____

Provide signature.

ENGINEER'S CERTIFICATION

"This Erosion and Stormwater Quality Control Plan was prepared under my direction and supervision and is correct to the best of my knowledge and belief. If such work is performed in accordance with the grading and erosion control plan, the work will not become a hazard to life and limb, endanger property, or adversely affect the safety, use, or stability of a public way, drainage channel, or other property."

Provide signature.

Eric Gunderson, P.E. Colorado Registered Professional Engineer # 49487

familiarize themselves with the County and CDPS General Permit and SWMP and implement stormwater management strategies based upon the recommendations identified herein and varying site conditions.

PERMITTEE CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Owner's Authorized Agent:

Date: Provide signatures.

OPERATOR CERTIFICATION

I certify under penalty of law that a complete Stormwater Management Plan, has been prepared for my activity. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the Stormwater Management Plan is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for falsely certifying the completion of said SWMP, including the possibility of fine and imprisonment for knowing violations.

Operator's Authorized Agent:

SUBCONTRACTOR CERTIFICATION

I certify under penalty of law that a complete Stormwater Management Plan, has been prepared for my activity. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the Stormwater Management Plan is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for falsely certifying the completion of said SWMP, including the possibility of fine and imprisonment for knowing violations.

Subcontractor's Authorized Agent: Date: Note: Additional Subcontractor Certifications shall be completed as necessary.

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Date:

SITE CONDITIONS

VEGETATION

The existing site is currently undeveloped with onsite vegetation consisting of native weeds, brush, grasses, trees, and teepee buttes. The site is 0% void of vegetation.

DRAINAGE

CHARACTERISTICS

The west side of the Site, or the Birdsall Road Site, is located within El Paso County's Calhan Reservoir basin and consists of slopes ranging from 2% to 4:1. The east side of the Site, or the Squirrel Creek Site, is located within El Paso County's Lower Williams Creek basin and consists of slopes ranging from 2% to 4:1.

In the initial phase of construction, the developed runoff from the Project will generally be directed by means of drainage swales towards temporary sediment basins located throughout the east and west sides of the Site. The temporary sediment basins within the Squirrel Creek Site and along the east side of the Birdsall Road Site will have PVC riser pipe outfall structures. The temporary sediment basins within the Birdsall Road Site, along the west side will be non-draining sediment basins and will be pumped out after major rain event. In the completed phase of the project runoff will follow historic drainage patterns. The Birdsall Road Site proposes check dams spanning the west boundary to help dissipate flows traveling west as described in the Final Drainage Report ("FDR") for the Project.

Flood insurance rate map (FIRM) number 08041C0970G and 08041C1160G effective date December 7, 2018, indicates this parcel of land is in Zone X (area determined to be out of the 100-year and 500-year flood plain).

SOILS

AREAS & VOLUMES

The gross site area is approximately 711 acres. The total anticipated project disturbance area is 543 acres. The total improvement area is 407 acres.

The earthwork calculations for the site are included in Appendix A of this report.

EROSION & SEDIMENT CONTROL MEASURES

Construction operations including grading, hauling of soil, drainage, gravel roads, and final stabilization shall implement erosion and sediment control measures as described below and in the Timing section of this report. Additional measures shall be implemented as appropriate.

Erosion and sediment control measures shall be implemented during construction of the Project. Grading and earthwork activities will be performed within the limits of construction (LOC). A construction entrance with vehicle tracking control (VTC) shall be installed at the southwestern edge of the site along Birdsall Road and at the eastern edge of the site adjacent to the unnamed private gravel road to reduce off-site sediment tracking. Stabilized staging areas (SSA) shall be installed in various

generally describe (fencing, etc.?)

Page 14

- 10. Construct permanent check dams (west) in locations with no drainage swale or temporary sediment pond.
- 11. Install drainage swales and check dams (east and west).
- 12. Upon completion of the initial BMP installation, the operator shall schedule a pre-construction meeting with the owner and the County erosion control inspector to confirm BMPs installed are adequate prior to proceeding with additional land disturbing activities.
- 13. Complete demolition of existing site improvements and clearing and grubbing of the site as necessary to proceed with initial grading operations. Stockpile materials in accordance with the stockpile management (SP) BMP.

Phased BMP Implementation - Final Phase

The final phase shall consist of the temporary construction BMPs to minimize potential for erosion and sediment transfer during the construction of the proposed solar arrays and associated limited site improvements. The final stabilization of the site is anticipated to be completed by Summer 2020. The operator shall complete the anticipated final phase sequencing as follows:

- 1. Confirm existing BMPs from the initial phase, which are to be maintained throughout construction, are in working order and compliant with applicable regulations.
- 2. Repair and/or replace any existing BMPs which are deemed inadequate.
- 3. Complete required temporary grading operations necessary for construction. Conduct excavation as needed for the underground utilities. Stockpile materials in accordance with the stockpile management (SP) BMP.
- 4. Temporary stabilize (TS) all areas of the site which will remain inactive for a period greater than 30 days in accordance with El Paso County, CDPHE and owner requirements. Temporary stabilization shall be implemented within 14 days of disturbance.
- 5. Install concrete washout area (CWA) prior to construction of concrete improvements.
- 6. Complete required grading operations necessary for construction of the proposed tracking arrays, transformer pads and associated site and utility improvements. Stockpile materials in accordance with the stockpile management (SP) BMP.
- 7. Construct underground utilities.

— reseeding

- 8. Complete fine grading and proceed with temporary stabilization (TS) and permanent stabilization (PS) practices in accordance with approved landscape plans.
- 9. Complete grading and installation of permanent stabilization over sediment basin areas and temporary drainage swales.
- 10. Construct permanent check dams (west) in areas where sediment basins are filled in.
- 11. Achieve permanent stabilization in accordance with El Paso County, CDPHE and owner requirements.

Earthwork Volume Calculations					
Area	Cut (CY)	Fill (CY)	Notes		
West	25,400 Net		West portion of the Site (Birdsall Road Site)		
East	23,050 Net		East portion of the Site (Squirrel Creek Site)		

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Where is the material being moved to? Notify contractor— that a haul route plan and agreement should be assumed to be required.

Stormwater Management Plan_V1.pdf Markup Summary

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