

FINAL Decommissioning Plan and Reclamation Cost Estimate for the Frontier Solar Project

Washington & Marion Counties, Kentucky

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Prepared for:

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TETRA TECH

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ACRONYMS AND ABBREVIATIONS

AC	alternating current
DC	direct current
FRON	Fron bn, LLC
KRS	Kentucky Revised Statutes
MV	medium voltage
MWac	megawatts alternating current
O&M	operations and maintenance
Plan	Decommissioning Plan and Reclamation Cost Estimate
Project Owner	BrightNight Power
Project	Frontier Solar Project
POI	point of interconnection
PV	photovoltaic
Tetra Tech	Tetra Tech, Inc.

1.0 INTRODUCTION

Tetra Tech, Inc. (Tetra Tech) was retained by FRON bn, LLC (FRON), a wholly owned subsidiary of BrightNight Power, to prepare a decommissioning plan and reclamation cost estimate (Plan) for the proposed Frontier Solar Project (Project). The scope of this Plan is to review the Project details and develop a decommissioning plan and associated cost estimate for retiring the Project facilities at the end of their useful life. FRON may upgrade components on the Project to extend the operational life of the Project, which would require that this Plan also be updated.

This Plan complies with Kentucky Revised Statutes (KRS) 278.706(2)(m). Pursuant to KRS 278.706(2)(m)(7), the Project's lease agreements shall be amended to incorporate the requirements of KRS 278.706(2)(m)(1)-(6). To the extent applicable laws and regulations in the future conflict with this Plan, such laws and regulations may apply in lieu of the applicable portion of this Plan.

Project decommissioning may be triggered by events such as the end of a Power Purchase Agreement or when the Project reaches the end of its operational life. KRS 224.10-285 requires that decommissioning activities be completed within 18 months of the Project ceasing to produce electricity for sale unless the deadline has been extended by the Secretary. Monitoring and site restoration may extend beyond this period to ensure successful revegetation and rehabilitation.

2.0 PROJECT DESCRIPTION

The Project is anticipated to generate 120 megawatts alternating current (MWac) of solar energy. The Project will be located on 762 acres in Washington and Marion Counties. Project coordinates are approximately 37.634361 N latitude and -85.265355 W longitude. The construction of the Project will include the installation of bifacial photovoltaic (PV) solar panels mounted on a single axis tracking system, collection cables, inverters and transformers, foundations, circuit breakers and disconnect switches, a substation, and other supporting facilities. The perimeter of the Project will be secured using wildlife friendly fencing. On-site access will be controlled via locked access gates. The Project facilities are described in more detail below.

2.1 Photovoltaic Solar Panels

The preliminary design provided by FRON assumes the Project will use 621 W N-type bifacial solar PV modules; however, the exact model and quantity of PV solar modules will be finalized during the detailed engineering phase.

PV solar panels will be arranged in arrays with panels that are clustered into modules, installed on tracker tables, and fixed to the ground on a racking system which includes pile foundations. A motor is affixed to a central pile that provides mechanical torque to multiple tracker tables for the panels to track the movement of the sun.

2.2 Inverters and Transformers

The preliminary design provided by FRON assumes the Project will use 33 inverters and transformers; however, the exact model and quantity of equipment and associated foundations will be finalized during the detailed engineering phase.

Each inverter and transformer will be a part of a manufactured skid placed atop a reinforced concrete foundation located adjacent to the solar array blocks. The foundations will have a footprint that measures approximately 16 feet by 12 feet. Each foundation will be supported by piles.

2.3 Collection System and Project Substation

Direct current (DC) collection cables from the solar array will be buried underground to connect to the inverters. Underground DC collection equipment may include trunk cables and bare copper for the grounding system. In compliance with KRS requirements, all underground components and foundations of above-ground facilities will be removed to a depth of 3 feet below the surface grade of the land, unless otherwise requested by the landowner. Above-ground DC collection equipment may include small gauge wire jumpers and harnesses for PV module stringing, PV junction boxes, CAB hangers, messenger wires, and DC disconnects or combiner boxes. Above-ground facilities shall be fully removed per KRS requirements unless otherwise stated by the landowner. The DC collection system will be finalized during the detailed engineering phase of the Project.

Alternating current (AC) collection cables from the inverters will converge at the corners of each of the solar array blocks and lead underground to the Project substation, which is located at 37.617298 N latitude and -85.268534 W Longitude and connected to the nearest LG&E and KU Utility Substation. Feeder cables will enter the substation via conduit and route to the feeder breakers. The substation will require power transformers, overhead buses, feeder breakers, and miscellaneous supporting equipment.

2.4 Operations and Maintenance Building

The on-site Operations and Maintenance (O&M) building dimensions are expected to be 30 feet by 50 feet supported on a reinforced concrete foundation constructed with approximately 100 cubic yards of concrete. The building will be constructed out of masonry brick, glass, and steel. The O&M building will be finalized during the detailed engineering phase. If recycling or reuse of building and foundation components is not feasible, items will be disposed of at an off-site disposal facility.

2.5 Anticipated Life of Project

The Project is developed in such a way that components may be upgraded—up to and including full repowering—with minor service interruptions. However, at this phase of the Project the anticipated life is 30 years.

3.0 DECOMMISSIONING PROCESS DESCRIPTION

All decommissioning and restoration activities will adhere to the requirements of appropriate governing authorities and will be performed in accordance with all applicable federal, state, and local permits. The decommissioning and restoration process includes removal of all above-ground structures, removal of below-ground structures to a depth of 3 feet unless otherwise requested by the landowner, and re-grading and re-seeding disturbed areas and otherwise returning the land to a substantially similar state as it was prior to the commencement of construction.

The Project will incur costs for removal and disposal of the PV arrays and other Project facilities and costs for the restoration of the Project area. Above-grade steel, aluminum, and copper materials typically have significant scrap value to a salvage contractor. Recyclable materials will be recycled to the extent possible, while other non-recyclable waste materials will be disposed of in accordance with state and federal law.

The process of removing structures involves evaluating and categorizing all components and materials into categories of recondition and reuse, salvage, recycle, or disposal. In the interest of increasing efficiency and reducing transportation costs/duration, components and materials may be stored on-site in a pre-approved location until the bulk of similar components or materials are ready for transport. The components and materials will be transported to the appropriate facilities for reconditioning (if possible), salvage, recycling, or disposal.

FRON will communicate with each affected landowner at the end of the Project's useful life so that any requests of the landowner that are in addition to the lease requirements and the requirements of this decommissioning plan may, in the sole discretion of the Project or its successor or assignee, be accommodated. FRON will incorporate the requirements of this decommissioning plan into its Project lease agreements with landowners.

3.1 PV Array Removals

Approximately 240,800 solar modules and the associated tracking racking system and buried underground conductors will be removed via manual labor. The demolition debris and removed components will be mechanically dismantled into pieces that can be safely lifted or carried with the on-site equipment being used. It is assumed that glass and steel will be processed for transportation and delivered to an off-site recycling center. Above-grade steel, aluminum, silicon, and copper will be sent to an approved salvage contractor. However, for this decommissioning plan, credit for recycling the PV modules has not been included in the cost estimate given that the market value of recycled PV modules is currently unknown and subject to fluctuation over the useful life of the Project. The preliminary design assumes that underground cables associated with the PV array will be removed to a depth of 3 feet below the ground surface at the end of its useful life.

3.2 Racking and Fencing

The preliminary tracker racking system design consists of 2,680 total trackers: 8,600 strings with 28 modules per string. The perimeter of the solar facility will be secured using approximately 76,500 linear feet of 6-foot wildlife fencing with wooden posts. All racking and fencing material will be removed with excavators or broken down into manageable units, loaded into trucks, transferred from the Project area, and sent to an approved recycler or salvage contractor. This includes any rack-mounted cables located above ground. All racking piles and fencing driven into the ground will be disassembled and removed in their entirety.

3.3 Project Substation

The Project will include a substation, which will remain in place for future use unless otherwise requested by the landowner in accordance with KRS 278.706(2)(m)(4). To be conservative in this assessment, the decommissioning costs have accounted for a potential future decommissioning of the substation, should it be requested at a later date by the landowner. If decommissioned, the substation may be sold for reuse or salvage. Components that cannot be salvaged will be transported off-site for recycling or disposal at an approved waste management facility. The control enclosure and electronic components of the substation equipment will be electrically disconnected and made safe for removal. The control enclosure will then be disassembled and removed from the site. The transformers, breakers, bus work, and metal dead-end structures will also be disassembled and removed. The main power transformer's insulating oil will be drained and transferred to a licensed disposal facility.

Foundations and containment curbs for the transformers may be removed in their entirety if more cost effective and associated concrete will be broken into pieces. Disposal of structures, materials, waste, and/or foundations (both hazardous and non-hazardous materials) shall meet the provisions of all local, state, and federal ordinances. The area will be thoroughly cleaned, and all debris removed.

3.4 Access Roads

Access and on-site roads will remain in place during decommissioning and will be one of the last Project components to be removed. Approximately 45,000 linear feet of access roads will be removed during decommissioning. The processed stone access roads will be stripped exposing the geotextile beneath (if applicable). The geotextile will then be removed and disposed of to reveal the original soil surface. Asphalt portions of access routes will be removed and disposed of. The compacted soil beneath the road fill may require ripping with a subsoiler plow to loosen it before it can be revegetated. Former roads and other disturbed areas will be regraded and re-seeded with native vegetation. It is assumed all access roads will be removed for the purposes of decommissioning and site restoration unless otherwise notified by the Counties prior to commencement of decommissioning activities.

4.0 SITE RESTORATION PROCESS DESCRIPTION

Once any Project owner's personal property and the Project's existing structures and ancillary facilities have been removed, site restoration activities will take place in compliance with the regulatory framework outlined at the time of decommissioning. The goal of site restoration is to restore the topography, vegetative cover, and hydrologic function of the site to a substantially similar condition as it was prior to commencing construction of the Project.

4.1 Site Recontouring

Grading activities will be limited to the disturbed areas that require re-contouring and positive drainage. Fills will be compacted by wheel or track rolling to avoid over-compaction of the soils. Industry standard best management practices (BMPs) will be implemented to provide erosion and sediment control until revegetation efforts have sufficiently stabilized the soil.

4.2 Drainage Restoration

Stormwater detention ponds, sediment traps, and other stormwater BMPs are not installed or included in the Project for the preliminary design; however, the exact drainage and BMP methods will be finalized during the detailed engineering phase.

Water quality permits, construction stormwater permits, and a Stormwater Prevention Plan (SWPPP) will be obtained as part of the final design. Any ponds and traps constructed may be decommissioned as part of the restoration effort. Removal of the detention ponds along with regrading and recontouring will ensure that pre-construction drainage patterns and release rates can be maintained.

4.3 Revegetation

Disturbed soil surfaces of the Project area will be revegetated with a native seed mix agreed upon with landowners and/or applicable local, state, or federal agencies such as the U.S. Department of Agriculture at the time of decommissioning. In these areas, restoration will include backfilling piles and foundations, decompacting subsoils, leveling, and other industry standard steps to prevent soil erosion.

5.0 PROJECT DECOMMISSIONING COSTS AND BONDING

At the end of the Project's useful life, assumed to be approximately 30 years, the decommissioning of the Project will take place in accordance with KRS 278.706(2)(m) and any applicable administrative regulations. The above-grade steel structures, electrical wiring, and other components are assumed to have significant scrap value which will offset a portion of the cost to remove these items. Following the removal of salvageable equipment and disposal of other items, the Project owner will also incur costs for removal and disposal of the PV panels, foundations, and other non-recyclable Project facilities, and these activities will impact the cost of the restoration of the site.

This estimate conservatively **includes** the decommissioning of the project substation, which is expected to remain in place in accordance with KRS 278.706(2)(m)(4) unless otherwise requested or required to remain.

The decommissioning cost estimate provided herein includes the costs to return the site to a substantially similar state as it was prior to construction of the Project. Included in the estimate are the costs to decommission the power generating equipment and retire the Project facilities, including removing all equipment and structures above grade and below grade to a depth of 3 feet. These costs are offset by the estimated credit that will be received for scrap value of steel, aluminum, and copper materials; resale of the Project facilities/components for reuse is not considered.

The PV recycling or takeback programs that currently exist in 2025 result in a cost to project, not a credit. It is anticipated that this will change in the future as the volume of PV modules available for recycling reaches the point where it will be profitable for companies to purchase decommissioned PV modules. As such, credit for recycling PV modules has not been included in the cost estimate for the Project, given the lack of widely available commercial systems for recycling PV modules, and given that the market value of recycled PV modules is currently unknown and subject to fluctuation over the useful life of the Project.

The estimated decommissioning costs for the Project were prepared using information from a variety of credible industry sources and Tetra Tech's experience. As summarized in Appendix A, **the estimated cost of decommissioning the Project in 2025 US dollars is \$6,015,990.48.** This cost estimate includes \$1,761,620.00 in scrap and recycling credit. Excluding scrap and recycling credit, the total estimated cost of decommissioning is \$7,777,610.48.

5.1 Financial Assurance

FRON is required to issue a performance bond or similar security to comply with the requirements of KRS 278.706(2)(m)(5). To identify any changes in the estimated net salvage cost of decommissioning the Project, the estimate will be reviewed and updated in accordance with the terms set forth by the insurance company or surety provider for reviewing the bond amount per KRS 278.706(2)(m)(5)(d). Should the review indicate an increase is warranted, the bond amount may be increased proportionate to the rise in these costs.

The bond can be used to satisfy any FRON obligation under the lease agreements, including but not limited to, payments owed under the lease agreement, the removal of all Frontier Solar Project improvements, and reclamation as required by decommissioning. FRON will secure a decommissioning bond or similar security to assure financial performance of its decommissioning obligations. The amount of the proposed bond shall be the net present value of the total estimated cost of completing the decommissioning plan, less the salvage value of the facility's components.

- For lands leased by the Applicant, the bond or similar security will name the landowner and Energy and Environment Cabinet (Cabinet) as co-beneficiaries, with Washington and Marion Counties named as secondary beneficiaries once consent is secured.
- For land owned by the Applicant, the bond or similar security will name the Cabinet as the primary beneficiary.

The bond or similar security will be provided by an insurance company or surety that shall maintain at all times at least an “Excellent” rating as measured by the AM Best rating agency or an investment grade credit rating by any national credit rating agency, and, if available, shall be non-cancelable by the provider or customer until the completion of the decommissioning plan or until a replacement bond is secured.

The bond or other similar security shall provide that at least 30 days prior to its cancellation or lapse, the surety shall notify the applicant, its successor or assign, each landowner, the Cabinet, and the county or city in which the facility is located of the impending cancellation or lapse. The notice shall specify the reason for the cancellation or lapse and provide any of the parties, either jointly or separately, the opportunity to cure the cancellation or lapse prior to it becoming effective. The applicant, its successor, or its assign, shall be responsible for all costs incurred by all parties to cure the cancellation or lapse of the bond. Each landowner, or the Cabinet with the prior approval of each landowner, may make a demand on the bond and initiate and complete the decommissioning plan.

5.2 Reclamation Cost Estimate Assumptions

Decommissioning of the Project was broken into individual tasks that were each estimated separately. Each task includes labor requirements, equipment needs, and duration. Production rates were established using professional experience and published standards included on InEight software. Labor rates prevalent to the geographic area of the Project were obtained by referencing U.S. Department of Labor wage determinations. Typical average markups that are industry standard were applied for contingency, overhead, and fee. Detailed cost estimates are provided in Appendix B.

Estimating methods and assumptions specific to this cost estimate are as follows:

- Labor costs are developed by reviewing U.S. Department of Labor wage determinations and rates published by InEight. An average rate is developed that includes base wage, fringe, and payroll tax liability. The final rate used in the estimate is an average of 40 hours standard time and 10 hours overtime per week, assuming a 50-hour work week for the duration of decommissioning.
- Equipment rates used in the estimate are developed by reviewing rates published by InEight and historical vendor quotes. Rates include fuel, maintenance, and wear and tear of ground engaging components. Rates assume the use of rented equipment.
- Mobilization and demobilization costs are estimated to be approximately 1.5% of the overall contractor’s costs. These reflect the actual costs to mobilize equipment, facilities, and crew to the Project site. This amount does not include the front loading of cost from other tasks.
- Work was estimated on a unit cost basis and priced by task, following the progression of work from start to finish. Unit costs were developed by including the labor, equipment, and production rate required for each individual task. InEight and estimator’s experience were used to establish the crew, equipment, and production for each individual task.
- Roads will be restored to become a part of the natural surroundings to a substantially similar state as it was prior to commencing construction. Road gravel will be used to backfill foundation locations to within 6 inches of final grade. It is expected that the remaining road gravel will be accepted by local receivers with no additional disposal cost. Roads that existed on private land prior to installation of the Project, if any, will be restored at the request of the current landowner.

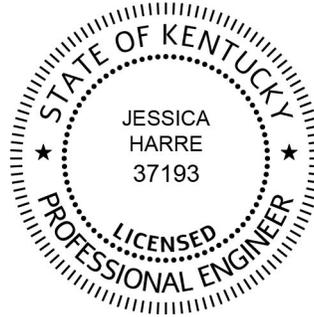
- All concrete foundations will be removed to a depth of 3 feet unless the landowner and applicant otherwise agree to a different depth. Gravel from road removal will be used as backfill to bring the top of grade to within 6 inches of final grade and then completed with an additional six inches of topsoil.
- Concrete foundation removal will be accomplished using excavators with concrete breakers.
- Processed concrete will be transported off site under the same assumptions as road gravel.
- Any interconnection or other facilities will be left in place unless otherwise requested by the landowner. In an abundance of caution, this estimate includes the decommissioning of the Project substation.
- All underground electrical collection system cabling will be removed to a depth of 3 feet.
- Oil from transformers will be drained prior to removal, and the oil disposed of following state and federal regulations. Oil disposal cost was assumed to be \$4 per gallon.
- Final restoration will include the placement of 6 inches of topsoil on all disturbed areas, with a final seeding utilizing a mix of grasses as agreed to and described in Section 4.3. It is assumed that 35 percent of the topsoil required for restoration is available on site as a result of the original installation.
- The costs for temporary facilities were included in the restoration cost. These include one office trailer, one Conex storage unit, four portable toilets, first aid supplies, and all necessary utilities.
- Field management during construction activities was added to the estimate. These costs include one superintendent and one field engineering technician. These positions are critical to the safe and successful execution of work.
- The contractor's home office, project management, overhead, and fee can vary widely by contractor. As such, averages were developed for the estimate and added as a percentage of total cost. These include 5 percent for home office and project management and 13 percent for overhead and fee.
- Contractor contingency costs are not included.
- Other miscellaneous costs were approximated, including permits, engineering, signage, fencing, traffic control, utility disconnects, etc. In the context of the overall estimate, these are incidental costs that are covered in the estimate markups.

6.0 REFERENCES

Kentucky Revised Statutes. 2024. *Chapter 278 – Public Service Commission, Subchapter 278.706*. Retrieved from: KRS section-278-706.pdf (Accessed November 2025)

Kentucky Revised Statutes. 2024. *Chapter 224 – Environmental Protection, Subchapter 224.10-285*. Retrieved from: KRS section-278-10-285.pdf (Accessed November 2025)

7.0 SIGNATURE OF ENGINEERING PROFESSIONAL



APPENDIX A. RECLAMATION COST ESTIMATE SUMMARY

CBS Position Code	Description	Forecast (T/O) Quantity	Unit of Measure	Unit Cost	Total Cost (Forecast)
1	BRIGHT NIGHT FRONTIER SOLAR RETIREMENT	1.00	Lump Sum	\$6,015,990.48	\$6,015,990.48
1.1	Equipment & Facilities Mob / Demob	1.00	Lump Sum	\$135,868.00	\$135,868.00
1.1.1	Equipment Mob	1.00	Lump Sum	\$61,200.00	\$61,200.00
1.1.2	Site Facilities	1.00	Lump Sum	\$2,200.00	\$2,200.00
1.1.3	Crew Mob & Site Setup	3.00	Day	\$14,493.60	\$43,480.80
1.1.4	Crew Demob & Site Cleanup	2.00	Day	\$14,493.60	\$28,987.20
1.2	Project Site Support	6.00	Month	\$55,801.60	\$334,809.58
1.2.1	Site Facilities	6.00	Month	\$1,305.00	\$7,830.00
1.2.2	Field Management	6.00	Month	\$54,496.60	\$326,979.58
1.3	Substation Retirement	1.00	Lump Sum	\$187,264.74	\$187,264.74
1.3.1	Fence Removal	1.00	Day	\$1,359.20	\$1,359.20
1.3.2	Transformer Removal	1.00	Each	\$95,220.40	\$95,220.40
1.3.3	Remove Control Building & Switchgear	1.00	Each	\$5,303.60	\$5,303.60
1.3.4	UG Utility & Ground Removal	2.00	Day	\$1,359.20	\$2,718.40
1.3.5	Remove Foundations To Subgrade	500.00	Cubic Yard	\$28.45	\$14,222.93
1.3.6	Misc. Material Disposal	1.00	Lump Sum	\$2,200.00	\$2,200.00
1.3.7	Restore Yard	1.00	Lump Sum	\$66,240.21	\$66,240.21
1.4	Transmission Line Retirement	1.00	Lump Sum	\$192,548.97	\$192,548.97
1.4.1	Structure Removal	28.00	Each	\$5,358.44	\$150,036.40
1.4.2	Remove Foundations To Subgrade	28.00	Each	\$1,518.31	\$42,512.57
1.5	O&M Building Removal	1.00	Lump Sum	\$27,989.32	\$27,989.32
1.5.1	Structure Demo	60.00	Ton	\$260.84	\$15,650.40
1.5.2	Remove Foundations To Subgrade	100.00	Cubic Yard	\$36.39	\$3,638.92
1.5.3	Trucking - Per Load	3.00	Each	\$1,500.00	\$4,500.00
1.5.4	Disposal Cost	60.00	Ton	\$70.00	\$4,200.00
1.6	Inverter / Transformer Removal	33.00	Each	\$3,620.80	\$119,486.40
1.6.1	Disconnect Electrical	33.00	Each	\$562.65	\$18,567.45
1.6.2	Loadout Inverter & Transformer	33.00	Each	\$1,558.15	\$51,418.95
1.6.3	Trucking - Per Load	33.00	Each	\$1,500.00	\$49,500.00
1.7	Inverter / Transformer Support Removal	33.00	Each	\$741.45	\$24,467.76
1.7.1	Excavate / Remove Foundation	33.00	Each	\$605.08	\$19,967.76
1.7.2	Trucking - Per Load	3.00	Each	\$1,500.00	\$4,500.00
1.8	Solar Array Retirement	1.00	Lump Sum	\$5,076,662.49	\$5,076,662.49
1.8.1	Fence Removal	76,500.00	Linear Feet	\$1.15	\$87,902.23
1.8.2	Solar Panel Removal & Disposal / Recycling	240,800.00	Each	\$8.26	\$1,988,535.20
1.8.3	Solar Rack (Trackers) & Post Removal	8,600.00	Each	\$348.86	\$3,000,225.06
1.9	Remove Underground Cable	1.00	Lump Sum	\$47,318.00	\$47,318.00
1.9.1	Remove Cable	5.00	Day	\$7,335.60	\$36,678.00
1.9.2	Disposal Cost (Misc Conduit)	2.00	Ton	\$70.00	\$140.00
1.9.3	Trucking - Per Load	7.00	Each	\$1,500.00	\$10,500.00
1.10	Site Restoration - Partial Site Seeding	1.00	Lump Sum	\$408,671.55	\$408,671.55
1.10.1	Strip & Decompact Roads	45,000.00	Linear Feet	\$1.45	\$65,242.80
1.10.2	Spot Grade Disturbed Areas	267.00	Acre	\$286.25	\$76,428.75
1.10.3	Re-Seed With Native Vegetation - Roads & Areas Disturbed By Construction	267.00	Acre	\$1,000.00	\$267,000.00
1.11	Contractor Markups	1.00	Lump Sum	\$1,222,523.68	\$1,222,523.68
1.11.1	Home Office, Project Management (5% Of Cost)	1.00	Lump Sum	\$327,754.35	\$327,754.35
1.11.2	Contractor OH & Fee (13% Of Cost)	1.00	Lump Sum	\$894,769.33	\$894,769.33
1.12	Scrap Metal Credit	1.00	Lump Sum	-\$1,761,620.00	-\$1,761,620.00
1.12.1	Scrap Credit - Substation	180.00	Ton	-\$254.00	-\$45,720.00
1.12.2	Scrap Credit - Fence	153.00	Ton	-\$254.00	-\$38,862.00
1.12.3	Scrap Credit - Module Rack	4,300.00	Ton	-\$254.00	-\$1,092,200.00
1.12.4	Scrap Credit - Inverter & Transformer	495.00	Ton	-\$254.00	-\$125,730.00
1.12.5	Scrap Credit - T-Line Structures	252.00	Ton	-\$254.00	-\$64,008.00
1.12.6	Scrap Credit - UG Cable	150.00	Ton	-\$254.00	-\$38,100.00
1.12.7	Scrap Credit - Cable	119.00	Ton	-\$3,000.00	-\$357,000.00

APPENDIX B. DETAILED RECLAMATION COST ESTIMATE

Estimate Summary
TETRA TECH, INC.

Job Code: Bright Night Frontier Solar
Description: Decommissioning Estimate

Cost Item							
CBS Position Code	Quantity UM	Description	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
1	1.00 Lump Sum	BRIGHT NIGHT FRONTIER SOLAR RETIREMENT	0.00	Detail	U.S. Dollar	6,015,990.48	6,015,990.48
1.1	1.00 Lump Sum	Equipment & Facilities Mob / Demob	0.20	Detail	U.S. Dollar	135,868.00	135,868.00
1.1.1	1.00 Lump Sum	Equipment Mob	0.00	Detail	U.S. Dollar	61,200.00	61,200.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
UERNTRLG	Rental Equip Transp-Large		6.00 Each	U.S. Dollar	10,000.00	60,000.00	
UERNTRSM	Rental Equip Transp-Small		8.00 Each	U.S. Dollar	150.00	1,200.00	
1.1.2	1.00 Lump Sum	Site Facilities	0.00	Detail	U.S. Dollar	2,200.00	2,200.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
UOCONMOB	Connex Box Mob		2.00 Each	U.S. Dollar	300.00	600.00	
UOTRLTRN	Trailer Trnsp/Setup/Trdwn		2.00 Each	U.S. Dollar	800.00	1,600.00	
1.1.3	3.00 Day	Crew Mob & Site Setup	1.00	Detail	U.S. Dollar	14,493.60	43,480.80
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	720.00	24.00 Each (hourly)	U.S. Dollar	46.97	33,818.40	
L010101	OPERATOR	180.00	6.00 Each (hourly)	U.S. Dollar	53.68	9,662.40	
1.1.4	2.00 Day	Crew Demob & Site Cleanup	1.00	Detail	U.S. Dollar	14,493.60	28,987.20
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	480.00	24.00 Each (hourly)	U.S. Dollar	46.97	22,545.60	
L010101	OPERATOR	120.00	6.00 Each (hourly)	U.S. Dollar	53.68	6,441.60	
1.2	6.00 Month	Project Site Support	0.05	Detail	U.S. Dollar	55,801.60	334,809.58
1.2.1	6.00 Month	Site Facilities	0.00	Detail	U.S. Dollar	1,305.00	7,830.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
URCONNEX	Connex Box		6.00 Month	U.S. Dollar	150.00	900.00	
UROFFTRL	Office Trailer -12x60		6.00 Month	U.S. Dollar	500.00	3,000.00	
UO1STAIID	1st Aid Supplies		6.00 Month	U.S. Dollar	300.00	1,800.00	
UOOFFSUP	Office Supplies(\$/prs/mo)		6.00 Month	U.S. Dollar	55.00	330.00	
URPRTAJH	Port-a-John Unit(s) (4)		6.00 Month	U.S. Dollar	300.00	1,800.00	
1.2.2	6.00 Month	Field Management	0.05	Detail	U.S. Dollar	54,496.60	326,979.58
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L90FX02	Field - Proj Superintendent	1,320.00	1.00 Each (hourly)	U.S. Dollar	125.40	165,528.00	
RPUTRK05	F-250 4X4 3/4 TON PICKUP	2,640.00	2.00 Each (hourly)	U.S. Dollar	11.88	31,363.20	
L90FEL00	Field - Engr. Tech	1,320.00	1.00 Each (hourly)	U.S. Dollar	98.55	130,088.38	
1.3	1.00 Lump Sum	Substation Retirement	0.04	Detail	U.S. Dollar	187,264.74	187,264.74
1.3.1	1.00 Day	Fence Removal	1.00	Detail	U.S. Dollar	1,359.20	1,359.20
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L010101	OPERATOR	10.00	1.00 Each (hourly)	U.S. Dollar	53.68	536.80	
L060100	GENERAL LABORER	10.00	1.00 Each (hourly)	U.S. Dollar	46.97	469.70	
RBACKH09	Deere 710J BACKHOE, 1.62CY	10.00	1.00 Each (hourly)	U.S. Dollar	35.27	352.70	
1.3.2	1.00 Each	Transformer Removal	0.17	Detail	U.S. Dollar	95,220.40	95,220.40
1.3.2.1	1.00 Each	Oil Removal & Disposal	1.00	Detail	U.S. Dollar	58,439.40	58,439.40

Cost Item							
CBS Position Code	Quantity UM	Description	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
1.3.2.1.1	1.00 Each	Oil Removal	1.00	Detail	U.S. Dollar	939.40	939.40
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	20.00	2.00 Each (hourly)	U.S. Dollar	46.97	939.40	
1.3.2.1.2	14,000.00 Gallon	Oil Disposal	0.00	Detail	U.S. Dollar	4.00	56,000.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USDISPOSAL	Disposal Fee's		56,000.00 Each	U.S. Dollar	1.00	56,000.00	
1.3.2.1.3	1.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,500.00	1,500.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USTRUCKING	Trucking Sub		1,500.00 Each	U.S. Dollar	1.00	1,500.00	
1.3.2.2	1.00 Each	Dismantle & Loadout Transformer	0.20	Detail	U.S. Dollar	36,781.00	36,781.00
1.3.2.2.1	1.00 Each	Dismantle, Cut & Size	0.20	Detail	U.S. Dollar	30,781.00	30,781.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	200.00	4.00 Each (hourly)	U.S. Dollar	46.97	9,394.00	
L010101	OPERATOR	100.00	2.00 Each (hourly)	U.S. Dollar	53.68	5,368.00	
*REXCAV06A	Excav 100K w/ Bucket & Grapple	50.00	1.00 Each (hourly)	U.S. Dollar	129.71	6,485.50	
*REXCAV06E	Excav 100K w/ Shear	50.00	1.00 Each (hourly)	U.S. Dollar	190.67	9,533.50	
1.3.2.2.2	4.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,500.00	6,000.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USTRUCKING	Trucking Sub		6,000.00 Each	U.S. Dollar	1.00	6,000.00	
1.3.3	1.00 Each	Remove Control Building & Switchgear	1.00	Detail	U.S. Dollar	5,303.60	5,303.60
1.3.3.1	1.00 Each	Demo	1.00	Detail	U.S. Dollar	2,303.60	2,303.60
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	10.00	1.00 Each (hourly)	U.S. Dollar	46.97	469.70	
L010101	OPERATOR	10.00	1.00 Each (hourly)	U.S. Dollar	53.68	536.80	
*REXCAV06A	Excav 100K w/ Bucket & Grapple	10.00	1.00 Each (hourly)	U.S. Dollar	129.71	1,297.10	
1.3.3.2	2.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,500.00	3,000.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USTRUCKING	Trucking Sub		3,000.00 Each	U.S. Dollar	1.00	3,000.00	
1.3.4	2.00 Day	UG Utility & Ground Removal	1.00	Detail	U.S. Dollar	1,359.20	2,718.40
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L010101	OPERATOR	20.00	1.00 Each (hourly)	U.S. Dollar	53.68	1,073.60	
L060100	GENERAL LABORER	20.00	1.00 Each (hourly)	U.S. Dollar	46.97	939.40	
RBACKH09	Deere 710J BACKHOE, 1.62CY	20.00	1.00 Each (hourly)	U.S. Dollar	35.27	705.40	
1.3.5	500.00 Cubic Yard	Remove Foundations To Subgrade	73.68	Detail	U.S. Dollar	28.45	14,222.93
1.3.5.1	500.00 Cubic Yard	Excavate / Remove Foundation - Various Depth	280.00	Detail	U.S. Dollar	16.08	8,038.93
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	17.86	1.00 Each (hourly)	U.S. Dollar	46.97	838.75	
L010101	OPERATOR	35.71	2.00 Each (hourly)	U.S. Dollar	53.68	1,917.14	
*REXCAV06C	Excav 100K w/ Hammer	17.86	1.00 Each (hourly)	U.S. Dollar	166.14	2,966.79	

Cost Item							
CBS Position Code	Quantity UM	Description	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
*REXCAV06A	Excav 100K w/ Bucket & Grapple	17.86	1.00 Each (hourly)	U.S. Dollar		129.71	2,316.25
1.3.5.2	500.00 Cubic Yard	Concrete Transport Offsite	100.00	Detail	U.S. Dollar	12.37	6,184.00
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
RDUTRK06	CAT D350D, 18CY-24CY	50.00	1.00 Each (hourly)	U.S. Dollar		76.71	3,835.50
L080940	TEAMSTER	50.00	1.00 Each (hourly)	U.S. Dollar		46.97	2,348.50
1.3.6	1.00 Lump Sum	Misc. Material Disposal	0.00	Detail	U.S. Dollar	2,200.00	2,200.00
1.3.6.1	1.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,500.00	1,500.00
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
USTRUCKING	Trucking Sub		1,500.00 Each	U.S. Dollar		1.00	1,500.00
1.3.6.2	10.00 Ton	Disposal Cost	0.00	Detail	U.S. Dollar	70.00	700.00
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
USDISPOSAL	Disposal Fee's		700.00 Each	U.S. Dollar		1.00	700.00
1.3.7	1.00 Lump Sum	Restore Yard	0.12	Detail	U.S. Dollar	66,240.21	66,240.21
1.3.7.1	4.00 Acre	Backfill / Regrade	2.00	Detail	U.S. Dollar	1,708.72	6,834.87
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
L060100	GENERAL LABORER	40.00	2.00 Each (hourly)	U.S. Dollar		46.97	1,878.80
L010101	OPERATOR	40.00	2.00 Each (hourly)	U.S. Dollar		53.68	2,147.20
REXCAV06B	Gradall - Excavator	20.00	1.00 Each (hourly)	U.S. Dollar		79.62	1,592.47
*RDOZER08	CAT D6 LGP Dozer	20.00	1.00 Each (hourly)	U.S. Dollar		60.82	1,216.40
1.3.7.2	2,000.00 Cubic Yard	Vegetative Cover	300.00	Detail	U.S. Dollar	27.70	55,405.33
1.3.7.2.1	2,000.00 Cubic Yard	Topsoil, Delivered	0.00	Detail	U.S. Dollar	20.00	40,000.00
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
IMSOIL	Topsoil		2,000.00 Cubic Yard	U.S. Dollar		20.00	40,000.00
1.3.7.2.2	2,000.00 Cubic Yard	Placement	300.00	Detail	U.S. Dollar	7.70	15,405.33
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
L010101	OPERATOR	133.33	2.00 Each (hourly)	U.S. Dollar		53.68	7,157.33
RDOZER08	CAT D6N XL	133.33	2.00 Each (hourly)	U.S. Dollar		61.86	8,248.00
1.3.7.3	4.00 Acre	Re-Seed With Native Vegetation	0.00	Detail	U.S. Dollar	1,000.00	4,000.00
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
USLANDSCAPE	Landscape Sub		4.00 Acre	U.S. Dollar		1,000.00	4,000.00
1.4	1.00 Lump Sum	Transmission Line Retirement	0.03	Detail	U.S. Dollar	192,548.97	192,548.97
1.4.1	28.00 Each	Structure Removal	1.00	Detail	U.S. Dollar	5,358.44	150,036.40
1.4.1.1	28.00 Each	Cut / Lower Structure	2.00	Detail	U.S. Dollar	1,965.50	55,034.00
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
L060100	GENERAL LABORER	560.00	4.00 Each (hourly)	U.S. Dollar		46.97	26,303.20
L010101	OPERATOR	140.00	1.00 Each (hourly)	U.S. Dollar		53.68	7,515.20
*RXMISC14	MAN LIFT GAS 125ft	140.00	1.00 Each (hourly)	U.S. Dollar		54.88	7,683.20
*RXMISC23	GROVE RT 200 TON	140.00	1.00 Each (hourly)	U.S. Dollar		96.66	13,532.40
1.4.1.2	28.00 Each	Cut / Size Structure & Loadout	2.00	Detail	U.S. Dollar	2,160.80	60,502.40
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
L060100	GENERAL LABORER	840.00	6.00 Each (hourly)	U.S. Dollar		46.97	39,454.80

Cost Item								
CBS Position Code	Quantity UM	Description	UM/Day	Cost Source	Currency	Unit Cost	Total Cost	
L010101	OPERATOR		140.00	1.00 Each (hourly)	U.S. Dollar	53.68	7,515.20	
*RXMISC23	GROVE RT 200 TON		140.00	1.00 Each (hourly)	U.S. Dollar	96.66	13,532.40	
1.4.1.3	23.00 Each	Trucking - Per Load		0.00	Detail	U.S. Dollar	1,500.00	34,500.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USTRUCKING	Trucking Sub		34,500.00 Each	U.S. Dollar	1.00	34,500.00		
Notes: ***** Assume 9 ton per steel structure and cable span *****								
1.4.2	28.00 Each	Remove Foundations To Subgrade		3.11	Detail	U.S. Dollar	1,518.31	42,512.57
1.4.2.1	28.00 Each	Excavate / Remove Foundation - Various Depth		3.33	Detail	U.S. Dollar	1,491.45	41,760.60
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	168.00	2.00 Each (hourly)	U.S. Dollar	46.97	7,890.96		
L010101	OPERATOR	168.00	2.00 Each (hourly)	U.S. Dollar	53.68	9,018.24		
*REXCAV06C	Excav 100K w/ Hammer	84.00	1.00 Each (hourly)	U.S. Dollar	166.14	13,955.76		
*REXCAV06A	Excav 100K w/ Bucket & Grapple	84.00	1.00 Each (hourly)	U.S. Dollar	129.71	10,895.64		
1.4.2.2	45.60 Cubic Yard	Concrete Transport Offsite		75.00	Detail	U.S. Dollar	16.49	751.97
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
RDUTRK06	CAT D350D, 18CY-24CY	6.08	1.00 Each (hourly)	U.S. Dollar	76.71	466.40		
L080940	TEAMSTER	6.08	1.00 Each (hourly)	U.S. Dollar	46.97	285.58		
1.5	1.00 Lump Sum	O&M Building Removal		0.23	Detail	U.S. Dollar	27,989.32	27,989.32
1.5.1	60.00 Ton	Structure Demo		20.00	Detail	U.S. Dollar	260.84	15,650.40
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
*REXCAV06A	Excav 100K w/ Bucket & Grapple	30.00	1.00 Each (hourly)	U.S. Dollar	129.71	3,891.30		
*REXCAV06E	Excav 100K w/ Shear	30.00	1.00 Each (hourly)	U.S. Dollar	190.67	5,720.10		
L010101	OPERATOR	60.00	2.00 Each (hourly)	U.S. Dollar	53.68	3,220.80		
L060100	GENERAL LABORER	60.00	2.00 Each (hourly)	U.S. Dollar	46.97	2,818.20		
1.5.2	100.00 Cubic Yard	Remove Foundations To Subgrade		71.43	Detail	U.S. Dollar	36.39	3,638.92
1.5.2.1	100.00 Cubic Yard	Excavate / Remove Foundation - Various Depth		250.00	Detail	U.S. Dollar	18.01	1,800.72
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	4.00	1.00 Each (hourly)	U.S. Dollar	46.97	187.88		
L010101	OPERATOR	8.00	2.00 Each (hourly)	U.S. Dollar	53.68	429.44		
*REXCAV06C	Excav 100K w/ Hammer	4.00	1.00 Each (hourly)	U.S. Dollar	166.14	664.56		
*REXCAV06A	Excav 100K w/ Bucket & Grapple	4.00	1.00 Each (hourly)	U.S. Dollar	129.71	518.84		
1.5.2.2	100.00 Cubic Yard	Concrete Transport Offsite		100.00	Detail	U.S. Dollar	18.38	1,838.20
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
RDUTRK06	CAT D350D, 18CY-24CY	10.00	1.00 Each (hourly)	U.S. Dollar	76.71	767.10		
L080940	TEAMSTER	10.00	1.00 Each (hourly)	U.S. Dollar	46.97	469.70		
L010101	OPERATOR	5.00	0.50 Each (hourly)	U.S. Dollar	53.68	268.40		
RFELWH09	CAT 966F LOADER, 4.25CY	5.00	0.50 Each (hourly)	U.S. Dollar	66.60	333.00		
1.5.3	3.00 Each	Trucking - Per Load		0.00	Detail	U.S. Dollar	1,500.00	4,500.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USTRUCKING	Trucking Sub		4,500.00 Each	U.S. Dollar	1.00	4,500.00		
Notes: ***** Assumption: 45,000 lbs per load *****								

Cost Item							
CBS Position Code	Quantity UM	Description	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
1.5.4	60.00 Ton	Disposal Cost	0.00	Detail	U.S. Dollar	70.00	4,200.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USDISPOSAL	Disposal Fee's		4,200.00 Each	U.S. Dollar	1.00	4,200.00	
1.6	33.00 Each	Inverter / Transformer Removal	1.00	Detail	U.S. Dollar	3,620.80	119,486.40
1.6.1	33.00 Each	Disconnect Electrical	2.00	Detail	U.S. Dollar	562.65	18,567.45
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L010110	ELECTRCIAN	165.00	1.00 Each (hourly)	U.S. Dollar	53.68	8,857.20	
L060100	GENERAL LABORER	165.00	1.00 Each (hourly)	U.S. Dollar	46.97	7,750.05	
RPUTRK05	F-250 4X4 3/4 TON PICKUP	165.00	1.00 Each (hourly)	U.S. Dollar	11.88	1,960.20	
1.6.2	33.00 Each	Loadout Inverter & Transformer	2.00	Detail	U.S. Dollar	1,558.15	51,418.95
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	660.00	4.00 Each (hourly)	U.S. Dollar	46.97	31,000.20	
L010101	OPERATOR	165.00	1.00 Each (hourly)	U.S. Dollar	53.68	8,857.20	
RHYDCR06	GROVE RT880 73 TON	165.00	1.00 Each (hourly)	U.S. Dollar	70.07	11,561.55	
1.6.3	33.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,500.00	49,500.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USTRUCKING	Trucking Sub		49,500.00 Each	U.S. Dollar	1.00	49,500.00	
1.7	33.00 Each	Inverter / Transformer Support Removal	4.58	Detail	U.S. Dollar	741.45	24,467.76
1.7.1	33.00 Each	Excavate / Remove Foundation	4.58	Detail	U.S. Dollar	605.08	19,967.76
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	144.00	2.00 Each (hourly)	U.S. Dollar	46.97	6,763.68	
L010101	OPERATOR	72.00	1.00 Each (hourly)	U.S. Dollar	53.68	3,864.96	
*REXCAV06A	Excav 100K w/ Bucket & Grapple	72.00	1.00 Each (hourly)	U.S. Dollar	129.71	9,339.12	
1.7.2	3.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,500.00	4,500.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USTRUCKING	Trucking Sub		4,500.00 Each	U.S. Dollar	1.00	4,500.00	
1.8	1.00 Lump Sum	Solar Array Retirement	0.01	Detail	U.S. Dollar	5,076,662.49	5,076,662.49
1.8.1	76,500.00 Linear Feet	Fence Removal	5,124.80	Detail	U.S. Dollar	1.15	87,902.23
1.8.1.1	76,500.00 Linear Feet	Fence Removal	5,124.80	Detail	U.S. Dollar	1.07	81,902.23
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L010101	OPERATOR	447.82	3.00 Each (hourly)	U.S. Dollar	53.68	24,039.10	
L060100	GENERAL LABORER	895.64	6.00 Each (hourly)	U.S. Dollar	46.97	42,068.43	
RBACKH09	Deere 710J BACKHOE, 1.62CY	447.82	3.00 Each (hourly)	U.S. Dollar	35.27	15,794.69	
1.8.1.2	4.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,500.00	6,000.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USTRUCKING	Trucking Sub		6,000.00 Each	U.S. Dollar	1.00	6,000.00	
1.8.2	240,800.00 Each	Solar Panel Removal & Disposal / Recycling	4,800.00	Detail	U.S. Dollar	8.26	1,988,535.20
1.8.2.1	240,800.00 Each	Solar Panel Removal	4,800.00	Detail	U.S. Dollar	3.31	796,205.20
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
RLIFTS05	JCB 508C, 8,000lbs FRKLFT	3,010.00	6.00 Each (hourly)	U.S. Dollar	22.96	69,109.60	
L010101	OPERATOR	3,010.00	6.00 Each (hourly)	U.S. Dollar	53.68	161,576.80	
L060100	GENERAL LABORER	12,040.00	24.00 Each (hourly)	U.S. Dollar	46.97	565,518.80	

Cost Item							
CBS Position Code	Quantity UM	Description	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
Notes: ***** Assumed production: 20 panels per laborer per hour, Includes packaging and preparing for shipment offsite. *****							
1.8.2.2	388.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,500.00	582,000.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USTRUCKING	Trucking Sub		582,000.00 Each	U.S. Dollar	1.00	582,000.00	
Notes: ***** Assumption: 45,000 lbs per load *****							
1.8.2.3	8,719.00 Ton	Disposal / Recycling Cost	0.00	Detail	U.S. Dollar	70.00	610,330.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USDISPOSAL	Disposal Fee's		610,330.00 Each	U.S. Dollar	1.00	610,330.00	
Notes: ***** Assumption: 240,800 modules x 72.41 lbs each *****							
1.8.3	8,600.00 Each	Solar Rack (Trackers) & Post Removal	119.36	Detail	U.S. Dollar	348.86	3,000,225.06
1.8.3.1	8,600.00 Each	Solar Rack (Trackers) & Post Removal	119.36	Detail	U.S. Dollar	318.17	2,736,225.06
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L010101	OPERATOR	11,527.99	16.00 Each (hourly)	U.S. Dollar	53.68	618,822.27	
L060100	GENERAL LABORER	5,763.99	8.00 Each (hourly)	U.S. Dollar	46.97	270,734.75	
*REXCAV06A	Excav 100K w/ Bucket & Grapple	5,763.99	8.00 Each (hourly)	U.S. Dollar	129.71	747,647.52	
*REXCAV06E	Excav 100K w/ Shear	5,763.99	8.00 Each (hourly)	U.S. Dollar	190.67	1,099,020.52	
Notes: ***** Crew to include 1 excavator w/shear, 1 excavator w/grapple, 2 operators and 2 laborers. Includes post removal and sizing of steel for sale as scrap, and loadout to haul trucks. *****							
1.8.3.2	192.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,375.00	264,000.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USTRUCKING	Trucking Sub		264,000.00 Each	U.S. Dollar	1.00	264,000.00	
Notes: ***** Assumption: 45,000 lbs per load *****							
1.9	1.00 Lump Sum	Remove Underground Cable	0.20	Detail	U.S. Dollar	47,318.00	47,318.00
1.9.1	5.00 Day	Remove Cable	1.00	Detail	U.S. Dollar	7,335.60	36,678.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
*REXCAV06A	Excav 100K w/ Bucket & Grapple	200.00	4.00 Each (hourly)	U.S. Dollar	129.71	25,942.00	
L010101	OPERATOR	200.00	4.00 Each (hourly)	U.S. Dollar	53.68	10,736.00	
1.9.2	2.00 Ton	Disposal Cost (Misc Conduit)	0.00	Detail	U.S. Dollar	70.00	140.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USDISPOSAL	Disposal Fee's		140.00 Each	U.S. Dollar	1.00	140.00	
1.9.3	7.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,500.00	10,500.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USTRUCKING	Trucking Sub		10,500.00 Each	U.S. Dollar	1.00	10,500.00	
1.10	1.00 Lump Sum	Site Restoration - Partial Site Seeding	0.02	Detail	U.S. Dollar	408,671.55	408,671.55
1.10.1	45,000.00 Linear Feet	Strip & Decompact Roads	2,500.00	Detail	U.S. Dollar	1.45	65,242.80

Cost Item							
CBS Position Code	Quantity UM	Description	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
*RDOZER08	CAT D6 LGP Dozer	360.00	2.00 Each (hourly)	U.S. Dollar		60.82	21,895.20
L010101	OPERATOR	540.00	3.00 Each (hourly)	U.S. Dollar		53.68	28,987.20
*RFELWH08C	CAT 980 LOADER	180.00	1.00 Each (hourly)	U.S. Dollar		79.78	14,360.40
Notes: ***** Decompaction to include discing and regrading Assume removed road base transported offsite at no charge *****							
1.10.2	267.00 Acre	Spot Grade Disturbed Areas	8.00	Detail	U.S. Dollar	286.25	76,428.75
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
*RDOZER08	CAT D6 LGP Dozer	667.50	2.00 Each (hourly)	U.S. Dollar		60.82	40,597.35
L010101	OPERATOR	667.50	2.00 Each (hourly)	U.S. Dollar		53.68	35,831.40
Notes: ***** Assumption: 762 acres total property area. Assume that 35% of the area disturbed by construction will be regraded. *****							
1.10.3	267.00 Acre	Re-Seed With Native Vegetation - Roads & Areas Disturbed By Construction	0.00	Detail	U.S. Dollar	1,000.00	267,000.00
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
USLANDSCAPE	Landscape Sub		267.00 Acre	U.S. Dollar		1,000.00	267,000.00
Notes: ***** Assumption: 762 acres total property area. Assume that 35% of the area disturbed by construction will be re-seeded. *****							
1.11	1.00 Lump Sum	Contractor Markups	0.00	Detail	U.S. Dollar	1,222,523.68	1,222,523.68
1.11.1	1.00 Lump Sum	Home Office, Project Management (5% Of Cost)	0.00	Detail	U.S. Dollar	327,754.35	327,754.35
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
USMARKUP5	5% Markup		6,555,087.00 Each	U.S. Dollar		0.05	327,754.35
1.11.2	1.00 Lump Sum	Contractor OH & Fee (13% Of Cost)	0.00	Detail	U.S. Dollar	894,769.33	894,769.33
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
USMARKUP	13% Markup		6,882,841.00 Each	U.S. Dollar		0.13	894,769.33
1.12	1.00 Lump Sum	Scrap Metal Credit	0.00	Detail	U.S. Dollar	(1,761,620.00)	(1,761,620.00)
1.12.1	180.00 Ton	Scrap Credit - Substation	0.00	Detail	U.S. Dollar	(254.00)	(45,720.00)
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
UODCFERROUS	Ferrous Metal Scrap		180.00 Ton	U.S. Dollar		(254.00)	(45,720.00)
1.12.2	153.00 Ton	Scrap Credit - Fence	0.00	Detail	U.S. Dollar	(254.00)	(38,862.00)
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
UODCFERROUS	Ferrous Metal Scrap		153.00 Ton	U.S. Dollar		(254.00)	(38,862.00)
Notes: ***** Assume 4 lbs per ft fence *****							
1.12.3	4,300.00 Ton	Scrap Credit - Module Rack	0.00	Detail	U.S. Dollar	(254.00)	(1,092,200.00)
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
UODCFERROUS	Ferrous Metal Scrap		4,300.00 Ton	U.S. Dollar		(254.00)	(1,092,200.00)
Notes: ***** Assume 1000 Lbs per string w/ piles *****							

Cost Item							
CBS Position Code	Quantity UM	Description	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
1.12.4	495.00 Ton	Scrap Credit - Inverter & Transformer	0.00	Detail	U.S. Dollar	(254.00)	(125,730.00)
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
UODCFERROUS	Ferrous Metal Scrap		495.00 Ton	U.S. Dollar	(254.00)	(125,730.00)	
Notes: ***** Assume 15 ton per inverter / transformer *****							
1.12.5	252.00 Ton	Scrap Credit - T-Line Structures	0.00	Detail	U.S. Dollar	(254.00)	(64,008.00)
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
UODCFERROUS	Ferrous Metal Scrap		252.00 Ton	U.S. Dollar	(254.00)	(64,008.00)	
Notes: ***** Assume 9 ton per steel structure and cable span *****							
1.12.6	150.00 Ton	Scrap Credit - UG Cable	0.00	Detail	U.S. Dollar	(254.00)	(38,100.00)
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
UODCFERROUS	Ferrous Metal Scrap		150.00 Ton	U.S. Dollar	(254.00)	(38,100.00)	
1.12.7	119.00 Ton	Scrap Credit - Cable	0.00	Detail	U.S. Dollar	(3,000.00)	(357,000.00)
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
UODCCOP	Copper Scrap		119.00 Ton	U.S. Dollar	(3,000.00)	(357,000.00)	
Notes: ***** Assume .10 lbs per lf on rack *****							
Report Total:							6,015,990.48

Category	Total
Labor	2,334,885.15
Rented Equipment	2,204,801.66
Supplies	2,130.00
Materials	40,000.00
Subcontract	3,193,593.68
ODCs	2,200.00
Other Costs	(1,761,620.00)