RAGSDALE SOLAR FACILITY 30% CIVIL DESIGN

MADISON COUNTY, MS SITE LOCATION: 32°33'15.84"N, 90°0'40.68"W



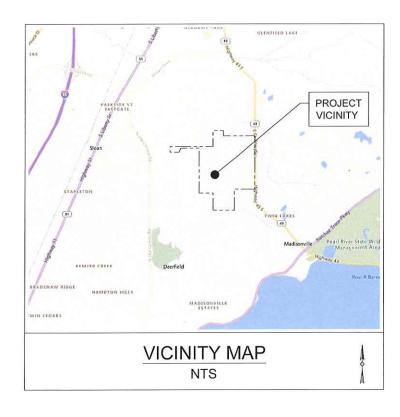
O SIGNAL ENERGY KLEINFELDER
Bright People. Right Solutions.



REVAMP

ENGINEERING, INC.





	DRAWING INDEX			
SHEET NUMBER	REV	DATE		
RAG1-C-000	Α	06/07/2023		
RAG1-C-001 - 002	GENERAL NOTES	Α	06/07/2023	
RAG1-C-100	OVERALL KEY MAP	Α	06/07/2023	
RAG1-C-200	Α	06/07/2023		
RAG1-C-301 - 305	SITE PLAN	Α	06/07/2023	
RAG1-C-401 - 402	SITE DETAILS	Α	06/07/2023	
RAG1-C-403 - 405	GRADING & EROSION CONTROL DETAILS	Α	06/07/2023	

OWNER

EDP RENEWABLES RAGSDALE SOLAR, LLC 1501 MCKINNEY STREET, SUITE 1300 HOUSTON, TX 77010 713-265-0350

EPC

SIGNAL ENERGY CONTACT: KAREN MCEWAN 2034 HAMILTON PLACE BLVD. SUITE 100 CHATTANOOGA, TN 37421 KAREN.MCEWAN@SIGNALENERGY.COM 919-755-5011

CIVIL ENGINEER

CONTACT: GARRETT OTTEN, PE 3200 GATEWAY CENTRE BOULEVARD, SUITE 100 MORRISVILLE, NC 27560 GOTTEN@KLEINFELDER.COM

ELECTRICAL ENGINEER

REVAMP ENGINEERING, INC. CONTACT: KAMAL BAGHA, PE 428 13TH STREET, 3RD FLOOR OAKLAND, CA 94612 510-343-5399 KBAGHA@REVAMPENG.COM



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- 1	Α	06/07/2023	30% CIVIL DESIGN	

THE HORIZONTAL DATUM FOR THIS PLAN SET UTILIZES THE

MISSISSIPPI STATE PLANE COORDINATES, WEST ZONE,

ALL WORK SHALL CONFORM TO ALL PERTINENT CODES,

REGULATIONS, LAWS, AND ORDINANCES AS REQUIRED BY THE

NSRS11 (2011) ADJUSTMENT, US SURVEY FEET.

PERMITTING & PLANNING NOTES:

VER.

DATE

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RAGSDALE

RAGSDALE SOLAR FACILIT
MADISON COUNTY, MS

KLEINFELDER REVAMP

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	SITE DESCRIPTION					TRAFFI	c contro	DLS					EART	HWORK	/ DEMI	UCKING P	ROCEDUR	ES		_
APPROXIMATELY 4 MILES SOUTHEAST OF T ALONG ENDRIS ROAD, REFER TO THE LOCAT A THE SOLAR ENERGY FACILITY WILL INCLUDE T	INT OF A SOLAR ENERGY FACILITY IN MADISON COUNTY. MS. THE PROPERTY IS LOCATED HE CITY OF CANTON. MISSISSIPPI. IN BETWEEN US HIGHWAY 43 S AND N OLD CANTON RION MAP AND VICINITY MAP ON THE COVER SHEET FOR MORE DETAIL. HE FOLLOWING SITE COMPONENTS: GROUND-MOUNTED PHOTOVOLTAIC PANELS, ELECTRICAL RY ELECTRICAL EQUIPMENT. THE DEVELOPMENT OF THE SOLAR ENERGY FACILITY WILL INCLUDI		 MAINTENANCE OF TRAFFIC MUST BE IN ACCORDANCE WITH MISSISSIPPI DEPARTMENT OF TRANSPORTATION (MDOT) STANDARDS AND SPECIFICATIONS. 							1. CONTRACTOR TO FOLLOW THE GUIDANCE OF THE REFERENCED GEOTECHNICAL ENGINEERING INVESTIGATION REPORT TO DETERMINE DEPTH OF DEMUCKING AND/OR REMOVAL OF UNSUITABLE FILL. 2. ALL EXISTING DEBRIS (ABOVE OR BELOW GROUND), CONSTRUCTION DEBRIS, AND OTHER WASTE MATERIAL MUST BE DISPOSED OF OFF-SITE BY THE CONTRACTOR. IN ACCORDANCE WITH APPLICABLE REGULATORY AGENCY REQUIREMENTS IN A LEGAL								A		
FOLLOWING CONSTRUCTION ACTIVITIES: SITE CONSTRUCTION ENTRANCES, PERIMETER, AN SECURITY FENCE, GATES, LAYDOWN & EQUIP	CLEARING/GRUBBING/DISCING AND OTHER SITE PREPARATION; INSTALLATION OF SITE D OTHER EROSION CONTROL MEASURES; INSTALLATION OF PROPOSED ACCESS ROADS, PROJEC MENT STORAGE AREAS, AND OTHER SITE COMPONENTS; SITE GRADING; INSTALLATION OF LOW.	т,			GENE	ERAL GRAD	DING AND I	DRAINAGE N	OTES		MANN	IER.				ADES, UNLESS OTH				
THESE SITE COMPONENTS AND CONSTRUCTION STORMWATER RUNOFF FROM THE DEVELOPMENT OF THE DEVE	MENT OF THE SOLAR ENERGY FACILITY MUST BE MANAGED BY DRAINAGE AND EROSION CONTR	ROL	1. ALL SPE	GRADING CONST	TRUCTION MUST E	BE IN ACCORDANCE V E ARE SIMILAR OR CO	WITH MDEQ, MDOT, AND ONFLICTING SPECIFIC	ND/OR MADISON COUNTY CATIONS, THE MOST STRII	Y STANDARDS AND INGENT ONE MUST APPLY.		PEAT. GEOT	BURIED DEBRIS)	IS TO BE EXCA	VATED AND REPL US MATERIAL IS T	LACED WITH: TO BE STOCK	SUITABLE/COMPACT	R UNDERNEATH FOUI TED SOILS, AS DIREC D FROM THE SITE. EX	CTED BY THE KCAVATED ARE	AS ARE	_
MEASURES THAT ADHERE TO LOCAL, STATE, A AND RECEIVING WATERS. REFER TO THE STOF REFERENCE PLANS, PERMITS, AND REPORTS T	NO FEDERAL REQUIREMENTS IN AN EFFORT TO NOT ADVERSELY IMPACT DOWNSTREAM PROPI MWATER POLLUTION PREVENTION PLAN (SWPPP) AND HYDROLOGY STUDY, AS LISTED IN THE ABLE ON SHEET [RAG1-C-001].	ERTIES	CON	TRACTOR MUST	D GRADES SHOW NOTIFY THE OWN R GRADE CHANGE	IER IF ANY DISCREPA	ST BE FIELD VERIFIED NCIES EXIST PRIOR 1	D BY THE CONTRACTOR P TO PROCEEDING WITH CO	PRIOR TO CONSTRUCTION ONSTRUCTION FOR	e e	FOR A	ACQUIRING ANY PE	ERMITS THAT A	ARE NECESSARY I SIBLE FOR PROTE	FOR REMOVE	ING DELETERIOUS N	SE PLANS, CONTRAC MATERIAL FROM THE COLLAPSE AND MUS	SITE.		
PROJECT NAME	RAGSDALE SOLAR PROJECT, LLC							RATION, FILL MATERIAL, F DTECHNICAL REPORT.	FILL PLACEMENT,		6. ALL N	IECESSARY FILL A	ND EMBANKME	ENT THAT IS PLAC	CED DURING	CONSTRUCTION MU	JST CONSIST OF MAT	ERIAL SPECIFIE	D BY	
B SITE ENTRANCE COORDINATE	32°33'15.84"N, 90°0'40.68"W							E TO BE MONITORED CLOS			THE G	GEOTECHNICAL RE	PORT AND BE	PLACED AND CO	MPACTED AC	CCORDING TO THES	SE PLANS.			В
COUNTY, STATE	MADISON COUNTY, MS		CONTRACTOR FOR EROSION. PERIMETER EROSION CONTROL MEASURES MUST BE USED IN THESE AREAS. 5. ALL SPOIL MATERIAL MUST BE PLACED ON THE UPLAND SIDE OF ANY SLOPED CONSTRUCTION AREA WITH LOW SIDE WRAPPED IN								DESCI	RIBED ON THESE I	PLANS. IT MUS	T ALSO BE THE R	RESPONSIBILI	ITY OF THE CONTRA	PLACEMENT OF ANY ACTOR TO ENSURE TO	HAT SUFFICIEN	ORT FSOILS	
HORIZONTAL DATUM	MISSISSIPPI STATE PLANES, WEST ZONE, NSRS11, 2011 ADJUSTMENT, US SUR NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)	RVEY FOOT	SILT FENCE OR OTHER APPROVED PERIMETER EROSION CONTROL MEASURE.								TESTING HAS BEEN PERFORMED PRIOR TO FINAL INSTALLATION OF IMPROVEMENTS.									
VERTICAL DATUM EXISTING USE	6. THE CONTRACTOR MUST TAKE WHATEVER STEPS NECESSARY TO PREVENT EROSION INTO NEARBY JURISDICTIONAL FEATURES.																	-		
PROPOSED USE	SOLAR ENERGY FACILITY			CKPILE SATISFAC TIVE DRAINAGE.		ED MATERIALS UNTIL	REQUIRED FOR FILL,	PLACE, GRADE, AND SHA	APE STOCKPILES FOR					DDAINT	II E EVI	ICTING DO	TENTIAL			-
RECEIVING WATERS	LITTLE BEAR CREEK		8. EAR	THWORK AND GR	RADING:									DKAINT	ILE EX	ISTING PO	TENTIAL			
С			R	EQUIREMENTS O	F MDOT AND OF	N METHODS FOR EAR THE GEOTECHNICAL I NS AS SHOWN ON TH	REPORT AND MUST B	BE PERFORMED TO ACHIE	GRADING MUST MEET THE EVE FINAL GRADES,		1. CONT	RATOR TO CONSI	DER BEST MAN			VE TREATMENT AS I	FOLLOWS			c
	GENERAL NOTES		• B	CLEARING AND EOTECHNICAL R	GRUBBING: CLE EPORT AND MUS	ARING AND GRUBBING T BE PERFORMED WIT	G MUST MEET THE RE	EQUIREMENTS OF MDOT	AND OF THE		3. IF DAN 4. RERO	ECT AT EXTENT PO MAGED, FIXED IN-FOUTE NEW DRAINTI	PLACE WITH IN ILE TO PROMO	TE POSITIVE DRA	AINAGE.					
LOCATIONS SHOWN ON THE PLANS AF WEST ZONE LIS SURVEY FOOT ELEVA	RE NORTH AMERICAN DATUM OF NSRS11, 2011 ADJUSTMENT, MISSISSIPPI STATE PLANES ITIONS SHOWN ON THE PLANS ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVDE	S, 88)	• 0	ROUGH GRADII	NG: THE CONTRA	CTOR MUST GRADE	THE SITE TO MEET TH	HE REQUIREMENTS OF ME TYPICAL SECTIONS AS SH	DOT AND OF THE HOWN ON THE PLANS.		5. IF NO	REGRADE WAS PE	ROPOSED. EOF	R TO PROPOSE G	RADING DESI	IGN TO DRAIN. ELIM	INATING NEED FOR D	DRAINTILE.		
2. THE CONTRACTOR MUST NOTIFY UTIL	ITY OWNERS THROUGH MISSISSIPPI ONE-CALL SYSTEM THREE BUSINESS DAYS IN	0.055						THE REQUIREMENTS OF M												-
	ION ON THE JOB SITE. CALL 1-601-362-4374 AND 811 (NATIONWIDE TOLL FREE UTILITY TIES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATION MUST BE URING CONSTRUCTION.					STORM	DRAINAGE	E SYSTEM												
BASED ON DATA PROVIDED BY UTILITY UTILITIES WITHIN PROJECT LIMITS, EIT HORIZONTAL OR VERTICAL POSITIONS	CONCERNING THE TYPE AND LOCATION OF UNDERGROUND AND OVERHEAD UTILITIES I COWNERS, AVAILABLE RECORDS, AND FIELD SURVEYS. THE PLANS MAY NOT SHOW ALL HER ACTIVE OR PLACED OUT-OF-SERVICE, OR THAT SAID UTILITIES ARE ACTUALLY IN TI SHOWN IN THE PLANS. DETERMINE THE TYPE AND LOCATION OF ALL UTILITIES TO AVOID DAMAGE TO UNDERGROUND UTILITIES.	0	THE CONTRACTOR MUST MAINTAIN AND PROTECT THE STORMWATER COLLECTION SYSTEM (INLETS, PIPES) FROM EXCESSIVE MUD, SILT, DIRT, DEBRIS, TRASH, ETC. UNTIL FINAL ACCEPTANCE OF THE PROJECT. MATERIALS, TRENCH EXCAVATION, PIPE LAYING, AND BACKFILLING OPERATIONS FOR DRAINAGE IMPROVEMENTS MUST MEET																	D
	S ARE IDENTIFIED DURING CONSTRUCTION, CONTRACTOR MUST NOTIFY DESIGN TO PERFORMING ANY REMOVAL OR MODIFICATIONS.		VAL	JE AND "BEDDED	" TO THE DETAIL	SHOWN IN THE PLANS	S. ALL BACKFILL MUS	IPE TRENCH WITH ADEQU BT BE COMPACTED PER GI 0, UNLESS OTHERWISE SH	SEOTECHNICAL											
6. WHERE EXCAVATIONS ARE IN CLOSE	PROXIMITY OF TREES NOT SHOWN AS BEING REMOVED, THE CONTRACTOR MUST USE E ROOT SYSTEM. NO EQUIPMENT, SUPPLIES, OR VEHICLES ARE TO BE STORED OR	1			5	SPILL PREV	ENTION A	ND CONTROL	L											
The state of the s	E WITH THE PROJECT OWNER AND DISPOSE OF ALL DEBRIS IN A LEGAL MANNER UPON		THE FOL	LOWING ARE THE TAL EXPOSURE	E MATERIAL MANA OF MATERIALS AN	AGEMENT PRACTICES ND SUBSTANCES TO S	THAT MUST BE USEI STORMWATER RUNO	D TO REDUCE THE RISK C FF.	OF SPILLS OR OTHER											
REBUILD, OR RESTORE TO ITS FORME	IRES OR UTILITIES: IT MUST BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR, R CONDITION, ANY AND ALL PORTIONS OF EXISTING UTILITIES, STRUCTURES, EQUIPMEN CH MAY BE DISTURBED OR DAMAGED DUE TO THIS CONSTRUCTION OPERATION.		1. SUP	DUSEKEEPING ERINTENDENT MI ERIALS.	UST INSPECT PRO	DJECT AREA DAILY FO	OR PROPER STORAGE	E, USE, AND DISPOSAL OF	F CONSTRUCTION											E
 COORDINATE REMOVAL OF ANY EXIST COMPANIES, OR LANDOWNERS. 	ING ITEMS WITH APPLICABLE FEDERAL, STATE, COUNTY, CITY, LOCAL AGENCIES, UTILIT	Y	2. STO 3. ALL	RE ONLY ENOUG	IOULD BE USED B	EFORE DISPOSAL OF	CONTAINER.	DEED CONTAINED AND IE	POSSIBLE STORED											
.—	ENCOUNTERED, MUST BE IN ACCORDANCE WITH THE HEALTH DEPARTMENT POLICY.		4. ALL CONSTRUCTION MATERIALS STORED MUST BE ORGANIZED AND IN THE PROPER CONTAINER, AND IF POSSIBLE, STORED UNDER A ROOF OR PROTECTIVE COVER. 5. PRODUCTS MUST NOT BE MIXED UNLESS DIRECTED BY THE MANUFACTURER.																_	
11. FINAL CLEANUP: UPON COMPLETION O ALL FALSEWORK, EQUIPMENT, SURPL FROM THE WORK.	OF THE WORK, THE CONTRACTOR MUST CLEAR AND REMOVE FROM THE PROJECT AREA US AND DISCARDED MATERIALS, RUBBISH, AND TEMPORARY STRUCTURES WHICH RESU	ÜLT	6. ALL	PRODUCTS MUST DUS PRODUCTS	T BE USED AND D	ISPOSED OF ACCORD	DING TO THE MANUFA	ACTURER'S RECOMMENDA	ATIONS.											
12. CONTRACTOR TO OBTAIN AND REVIEW	VALL PERMITS PRIOR TO STARTING CONSTRUCTION.		MATERIALS SHOULD BE KEPT IN ORIGINAL CONTAINER WITH LABELS UNLESS THE ORIGINAL CONTAINERS CANNOT BE RESEALED. IF ORIGINAL CONTAINERS CANNOT BE USED, LABELS AND PRODUCT INFORMATION MUST BE SAVED. PROPER DISPOSAL PRACTICES MUST ALWAYS BE FOLLOWED IN ACCORDANCE WITH MANUFACTURER AND LOCAL/STATE REGULATIONS.																F	
90	SAFETY			T SPECIFIC PRAC																
METHOD OF TRENCH PROTECTION AN ADMINISTRATION (OSHA) REGULATION ENFORCE ALL APPLICABLE SAFETY RE INFORMATION ONLY AND DOES NOT IN REGULATIONS. 2. DURING THE CONSTRUCTION AND/OR	ST COMPLY WITH THE "TRENCH SAFETY ACT". THE CONTRACTOR MUST ENSURE THAT TO DECONSTRUCTION IS IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH IS. IT MUST BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY AND GULATIONS. THE ABOVE INFORMATION HAS BEEN PROVIDED FOR THE CONTRACTOR'S IPLY THAT THE OWNER OR ENGINEER MUST INSPECT AND/OR ENFORCE SAFETY MAINTENANCE OF THIS PROJECT, ALL SAFETY REGULATIONS ARE TO BE ENFORCED. THE MUST BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE TRAVELING PUBLIC	ie.	PETI OF F 2. THE STO FER' 3. PAIN MAN	ROLEUM PRODUCETROLEUM PROI MINIMUM AMOUN RMWATER. FERTI TILIZER MUST BE T CONTAINERS N NER. CRETE TRUCKS I	CTS MUST BE PER DUCTS ON SITE. NT OF FERTILIZER ILIZERS MUST BE TRANSFERRED T MUST BE SEALED	RIODICALLY INSPECTE MUST BE USED AND STORED IN A COVER TO A SEALABLE PLAST AND STORED WHEN I	ED FOR LEAKS. PREC MIXED INTO THE SOI ED SHED. THE CONTI IC BIN TO AVOID SPII NOT IN USE. EXCESS	RLY LABELED. VEHICLES (AUTIONS MUST BE TAKEN IIL IN ORDER TO LIMIT EXP ENTS OF ANY PARTIALLY LLS. PAINT MUST BE DISPOSE RPLUS CONCRETE OR DR	N TO AVOID LEAKAGE POSURE TO VUSED BAGS OF ED OF IN AN APPROVED											
AND THE SAFETY OF HIS/HER PERSON OSHA IN THE FEDERAL REGISTER OF " CURRENT EDITION OF "MANUAL ON UN APPLICATION, INSTALLATION, MAINTEI BARRIERS NECESSARY TO PROTECT I LIMITS. CONTRACTOR MUST PROVIDE	VE MUST BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE TRAVELING POBLIC REL. LABOR SAFETY REGULATIONS MUST CONFORM TO THE PROVISIONS SET FORTH BY THE DEPARTMENT OF TRANSPORTATION. THE MINIMUM STANDARDS AS SET FORTH IN TI IF OF THE PROVIDED OF THE PROPERTY OF THE SAFETY AND CONTROL OF LOCAL TRAFFIC DURING CONSTRUCTION. ADDITION INE CLOSURE DURATIONS ARE LONGER THAN DAYTIME OPERATIONS.	Y HE															Know what's bel	low.		G
											DATE	SCALE			R	AGSDALF SO	OLAR FACILI	ту Т	(NEWES	\dashv
H													MM	بننو	1.0		COUNTY, MS		R E VA M P	н
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