

ADDENDUM NO. 1

Issue Date:	May 30, 2024
School / Facility Name:	Transportation - Warehouse DeLand
Project Name:	Replace Emergency Generator and Freezer Lighting
Owner's Project No.:	2448044

Owner:	School Board of Volusia County Florida 200 N. Clara Avenue, DeLand Florida 32720
Owner's Project Manager:	James Bott
Project Manager's Location:	3750 Olson Drive, Daytona Beach Florida 32124

Engineer's Representative:	Adrian W. Baus, PE, RCDD
Engineer's Project No.:	2023-148

The following modifications shall be incorporated to the previously distributed construction documents. Any questions regarding these modifications should be directed to the project architect or engineer for consideration.

The Drawings and Specifications are hereby modified as follows:

PRE-BID MEETING – May 21, 2024, 9:30 am

The following items as discussed at the Pre-Bid Meeting shall clarify and modify the Contract Documents:

- This is a Mandatory Pre-Bid Conference. Attendees must sign in on sign-in-sheet.
- Prime Bidders for this project are required to hold a current Certificate of Prequalification issued by the School Board of Volusia County Florida at the time of bid opening.
- Overview of some items in the Project Manual:

Construction Time:	Three Hundred and Sixty-Five (365)
	consecutive calendar days after written
	"Notice to Proceed"
Bid Date and Time:	June 4, 2024, 1:00 pm
Bid Location:	Workroom 87
Liquidated Damages:	\$300.00 per calendar day
Bid Bond A310:	Required
Performance and Payment Bond 640	Required

• Questions from bidders must be submitted by midnight May 28, 2024. Email questions to Adrian Baus abaus@matern.net and copy James Bott idbott@volusia.k12.fl.us.



Technology • Energy • Commissioning Engineers

- Contractor is responsible for providing temporary toilets for workers.
- All workers on site shall have a current Jessica Lunsford Badge even though students are not present at site.
- This project does not have permit or inspection fees from the School Board Building Department. Project will require inspections by the School Board Building Department. Contractor will need to request these inspections via the School Board Building Department's on-line system.
- Board Approval of the Bid is anticipated at the June 25, 2024 Board Meeting.
- VCS does intend to do Owner Direct Purchase (ODP) for the Gear and Generator Packages per AIA Document A201-2017, Article 3.4.5 and FAC Document 641 Contractor's Direct Material Purchase Affidavit.
- Addendums will be posted to the School Boards website page were the bid documents for the project are posted.
- Base Bid is replacing the existing 250 KW generator with a new 250 KW generator to be located in same area as the existing generator. Under the base bid the existing ATS remains, the existing generator disconnect remains, and the existing feeder from the generator to the ATS remains.
- Project has three additive alternates:
 - ALTERNATE NO.1: Increase size of Generator to 300 KW, fuel tank size to 72 hours, and locate new generator on the north side of the building.
 - ALTERNATE NO.2: Add external docking station to the generator installation described in Alternate No.1. This alternate presumes that Alternate No. 1 is being accepted.
 - ALTERNATE NO.3: Provide new lighting for Freezers and Cooler as shown on Sheet E141.
- This is an active warehouse that will remain operational over the course of the project.
- New lighting shall be installed in stages within an area/aisle so that areas remain illuminated.
- For work in the aisles the Contractor shall provide appropriate measures to protect product stored in racks. This shall include covering racks with plastic sheeting and other appropriate protective measures.
- Conduits insides the Freezer/Cooler/Warehouse areas do not require painting.



- The more stringent between Existing Conditions and Contract Documents shall govern. Bidders should send in a RFI if they have questions.
- All work shall be performed Monday through Friday, 6:15 a.m. to 3:15 p.m. During summer this will be adjusted to Monday through Thursday.
- Power outages shall be scheduled to occur during summer on Fridays or on Weekends with appropriate notice to and approval from Warehouse Manager. Any power outages not in Summer will need to occur on nights and weekends with appropriate notice to and approval from Warehouse Manager. Power outages shall only be performed with Warehouse Manager's approval and when warehouse work activities are not occurring.
- Contractor is responsible for providing a portable generator to back up the existing equipment branch when the existing generator is removed from service.
- Contractor's are reminded that they will need provide their own equipment for access and cleaning (i.e., lifts, ladders, vacuum cleaners, etc.). Use of Owner's equipment is not permitted.
- The Freezer is a very cold environment and workers will need appropriate gear/clothing for this environment. Two workers are required for activities in freezer due to cold hazard the freezer represents.
- All materials and equipment going into the freezers will need to acclimated in the refrigerated transition area prior to being brought into the freezers. Light fixtures shall be disassembled and placed on racks in refrigerated transition area for several days to allow internal moisture dissipate prior to being brought into a freezer area. The disassembled fixtures shall then be brought into the freezer area and allowed to further acclimate prior to being installed.
- Both 304 and 316 Stainless Steel are acceptable for outdoor enclosures and panels.
- Square D, Siemens, and GE/ABB are all approved manufacturer's for panelboards and disconnects.
- The acceptable generator manufacturers for this project are: Kohler, Caterpillar, Cummins, and Generac.
- Four foot orange safety fence shall be provided at all trenches that are only going to be open for less than 5 days. Trenches and work areas that will be active for more than 5 days shall be guarded with six foot temporary fence panels.
- Trench faces and bottoms shall be hand dug to avoid damage to existing utilities. Equipment may be used to remove loose soil in trenches that has been initially moved by hand within trench. Equipment may be utilized for back filling.



- Contractor is responsible for locating existing utilities and protecting them from damage.
- Contractor is responsible for all layout required to locate generator enclosure and concrete pads. Layouts hall be reviewed at site with Engineer and VCS Project Manager prior to finalization.
- Conduits rising up exterior of existing building shall be Galvanized Rigid Steel Conduit painted to match the building finish.
- Insulation resistance of feeders shall be tested. Minimum acceptable insulation resistance is 300 megohm.
- Contractor is responsible for all cutting and patching of existing paving and sidewalks required to construct project.
- When any work is occurring on site a superintendent, that is a direct employee of the prime contractor, shall be at site. When any work is occurring on site the electrical contractors licensed journeyman foreman shall also be present at site. If the prime contractor is an Electrical Contractor, one licensed journeyman foreman may serve in both roles.
- The prime contractor for this project shall have documented experience with projects of similar scope and complexity. The electrical contractor for this project shall have documented experience with projects of similar scope and complexity.
- Equivalent fixtures manufactured by Mule Lighting are acceptable substitutions for fixture types EM2C and X1.
- Fidelity Manufacturing is an acceptable manufacturer for the generator enclosure. The fuel tank finish that they provide for the fuel tank will need to be equal to the Hempel C5-M Offshore paint system listed in the specifications.
- Contractor is responsible for loading the existing generator onto a trailer that VCS will send to the site to pick up the existing generator.

QUESTIONS/RESPONSES

QUESTION 1: Are we supposed to include the wallpacks shown on sheets E141? They don't appear on the lighting schedule.

RESPONSE: The wall packs on the exterior of the building are existing to remain.

QUESTION 2: Are we supposed to include replacing the occupancy sensors as well?



RESPONSE: Yes. Occupancy sensors and power pack relays shall be replaced as part of Alternate No. 3.

QUESTION 3: There is an "R" inside of a square located next to some of the fixtures. What does this stand for?

RESPONSE: This symbol represents the power pack relays that control the lights. They are part of the lighting controls. The power pack relays get replaced as part of Alternate No. 3.

QUESTION 4: There is also an emergency light EM2W shown in the plans that is not in the lighting schedule.

RESPONSE: This fixture type is basically the same as EM2C except that it is mounted on the wall. It has been added to the fixture schedule as part of this Addendum No. 1.

QUESTION 5: The plans show a new annunciator panel going in the warehouse around the corner from the existing service. Is the intent to use existing conduit and wire for this or should the bidder include new conduit and wire in their bid?

RESPONSE: Under base bid new conductors/cables would be provided for new annunciator with these largely being routed in existing conduits. Refer to Hex Note 2 on Sheet E601. Under Alternate No. 1 the conductors/cables for the annunciator are new. Under Alternate No. 1 the conduit from the generator to the electrical area in the building is new. Under Alternate No. 1 new conduit inside the building running over to the annunciator shall be included in bid.

CLARIFICATIONS

- 1. Taylor Power Systems is hereby added as an acceptable generator manufacturer. The fuel tank finish that they provide for the fuel tank will need to be equal to the Hempel C5-M Offshore paint system listed in the specifications. Their generator housing construction will need to comply with specifications including having have aluminum construction.
- 2. The internal lining of the 250 KW base bid generator can be mechanically restrained UL 94 HF1 acoustic insulation with or without a perforated aluminum interior liner.
- 3. The upgrade under Alternate No. 1 to a 300 KW generator shall include providing perforated aluminum interior liner for the generator enclosure.

SPECIFICATIONS

- 1. 631 Instructions to Bidders
 - a. REVISE: Bid Location to: Workroom 87.

DRAWINGS

- 1. SHEET E003 LIGHT FIXTURE SCHEDULE
 - a. ADD: Fixture Type EM2W to schedule.
 - b. ADD: Mule Lighting as an approved substitution emergency and exit fixture types.



- 2. SHEET E503 DETAILS
 - a. ADD: GENERATOR DOCKING STATION PAD DETAIL to this sheet.

3. SHEET E602 POWER RISER DIAGRAM (ALTERNATES)

- a. REVISE: An instance of Hex Note 6 to an instance of Hex Note 7.
- b. REVISE: Pad thickness in Hex Note 25 from 16 inches to 12 inches.
- c. ADD: Reference in Hex Note 25 to detail on Sheet E503.
- 4. SHEET E603 PANEL SCHEDULES
 - a. ADD: Schedule information and schematic for Generator Docking Station.

Attachments:

Specifications: 631 Instructions to Bidders

Drawings: E003 E503 E602 E603

END OF ADDENDUM



INSTRUCTIONS TO BIDDERS SCHOOL BOARD OF VOLUSIA COUNTY FLORIDA FAC DOCUMENT 631

TO BIDDERS: You are hereby invited to submit a sealed bid for the following project. Bids will be publicly opened and read aloud at the time and place designated. Bids received after this time will not be accepted.

1. PROJECT INFORMATION

FACILITY NAME:	TRANSPORTATION WAREHOUSE - DELAND
PROJECT NAME:	REPLACE EMERGENCY GENERATOR AND FREEZER LIGHTING
PROJECT NUMBER:	2448044
OWNER:	THE SCHOOL BOARD OF VOLUSIA COUNTY FLORIDA
ENGINEER:	MATERN PROFESSIONAL ENGINEERING
BID DATE AND TIME:	JUNE 4, 2024 1:00 PM

BID DATE AND TIME:	JUNE 4, 2024 1:00 PM
LOCATION:	Volusia County Schools
	Facilities Services
	Workroom 87
	3750 Olson Drive
	Daytona Beach, Florida 32124
	Phone: 386-947-8786

MANDATORY PRE-BID CONFERENCE

DATE AND TIME:	May 21, 2024, 9:30 AM
LOCATION:	Transportation Warehouse - DeLand
	1301 Shapiro Drive
	DeLand, Florida 32724

All Bidders must attend the pre-bid conference. The representative of each Bidder shall be an authorized employee of the Bidder and shall sign in accordingly.

CONSTRUCTION TIME:

Three Hundred Sixty-Five (365) consecutive calendar days after written "Notice to Proceed".

BID DOCUMENTS:

Documents, including drawings and specifications, may be examined at the office of:

Matern Professional Engineering, Inc., 130 Candace Drive, Maitland, FL 32751

Bid documents are available in digital format. Bidders may view, print or save copies of the bid documents via the Volusia County Schools website at: <u>https://www.vcsedu.org/facilities-design</u> (Note: documents for proposals not published online.)

BID RESULTS:

The bid results will be available on the district web site at <u>https://www.vcsedu.org/facilities-design</u> (Note: proposal results not published online.)

DIRECTIONS TO SCHOOLS AND FACILITIES

Directions to School Board of Volusia County schools and facilities are available via the district website at: <u>https://www.vcsedu.org/community-information-services/maps-and-directions</u>.

2. DEFINITIONS

- 2.1 Contract: (select contract applicable to Project)
 Standard Form Agreement between Owner and Contractor, AIA Document A101-2017, as modified by the Owner and General Conditions of the Contract for Construction, AIA Document A201-2017, as modified by the Owner.
 Standard Form of Agreement Between Owner and Contractor for a Small Project, FAC Document 625.
- 2.2 **Contractor**: The term Contractor as used in this Solicitation shall be defined as provided in Section 489.105(3), Florida Statutes (2003) and shall be licensed to perform that work and in direct contractual relationship with Owner.
- 2.3 **Bidder**: Contractor which has received a certificate of prequalification by the School Board in conformance with State Board of Education Rules and School Board Policy 604. Certificate of prequalification shall only entitle a Contractor to submit a bid and shall not constitute proof of Bidder's ability to perform a contract or serve as a substitute for any of the qualifications imposed on Contractor in the Solicitation.
- 2.4 **Lowest Responsible Bidder**: A Contractor who has the skills, qualifications, ability and experience to perform the contract, in all respects, as required by the Solicitation and who has submitted the lowest responsible bid.
- 2.5 **Non-responsive bid**: Shall include, but not be limited to, submission of a subcontractor without required licensing, submission of incomplete forms or documentation, failure to demonstrate the skills, qualifications, ability and experience to perform the contract as required by the Solicitation of both the Bidder and its subcontractor(s), or any other reason provided by law.
- 2.6 **Self-performance**: Performance of work by the Bidder in one or more of the types of work as disclosed under FAC Document 633, List of Subcontractors, which is undertaken and completed entirely by his own forces through the use of skilled and unskilled labor, supervision and equipment owned, operated and controlled by the Bidder without the assistance, employ, contract or reliance on any third parties, individual or corporate, except that a total of not more than 10% of the cost of performing the work, that is to be self-performed, may be expended to utilize outside sources to perform the work and then only when the third party assistance is so specialized as to be commonly employed in the industry as it is otherwise not economically reasonable to maintain it internally.
- 2.7 **School Board**: The School Board of Volusia County Florida. The term "Owner" may be used interchangeably.
- 2.8 **Solicitation**: Consists of the following documents: Project Manual, Advertisement for Bid, Drawings, Addenda. The term includes what is generally defined as "Invitation to Bid" and "Request for Proposals" in Section 287.012, Fla. Stat. (2003).
- 2.9 **Subcontractor**: Any person or entity under contract with a Contractor to provide services or labor for the construction, installation, or repair of an improvement of real property. For purposes of this Solicitation, this term does not include suppliers who provide only materials, equipment or supplies to a Contractor.

3. PREQUALIFICATION OF BIDDERS

The prequalification process and terms and conditions of certificates of prequalification shall be governed by Volusia County School Board Policy 604.

A Bidder's failure to hold a certificate of prequalification at the time of bid submittal shall result in the automatic rejection of that bid.

4. BID SUBMITTAL

Each Bidder, on or before the bid date and time specified above, shall sign and submit, to Volusia County Schools, Facilities Services, 3750 Olson Drive, Daytona Beach Florida 32124, one (1) original and one (1) copy of the FAC Document 632, Bid Form, of the Solicitation in the format provided herein, with all bid information completed and two (2) copies of all other required bid documentation. If bids are delivered by U.S. mail, or some other form of delivery other than hand-delivery, a return receipt may be requested. Submittals containing any condition, omissions, unexplained erasures, alterations, items not called for or irregularities of any kind may be rejected by the School Board. Any additions or deletions made before bid opening shall be made solely on FAC Document 632, Bid Form. Verbal or digital bid submittals will not be considered.

Each Bidder's submittal shall be placed in an envelope and sealed and marked with the name of the project. Required bid documents included with the Bid Form shall be assembled as follows: FAC Document 632 Bid Form, AIA Document A310 Bid Bond (if required for this project), Power of Attorney (if required for this project), FAC Document 633 List of Subcontractors and then any other documents required. Bid documents (original set and copy set) shall be stapled or paperclipped, binders of any kind as well as separation pages should not be used. Failure to submit any bid document or bid information with the bid, as specified, shall result in the bid being rejected as non-responsive.

The School Board expressly reserves the right to waive minor technicalities, and to use sufficient time to investigate the bids and the skills, qualifications, experience and ability of the Bidders and its subcontractor(s) to fully perform the contract requirements. Any refusal by a Bidder or subcontractor(s) to respond to the School Board's request for information shall deem a bid non-responsive and serve as grounds for rejection of the bid by the School Board. Any documentation requested by School Board during this investigation process shall not be deemed a supplement to a bid, but as part of its good faith investigation process. Any withdrawal of a subcontractor by a Bidder without good cause shown shall deem a bid non-responsive and serve as grounds for rejection of the bid by the School Board for rejection of the bid by the School serve as grounds for rejection of the bid by the serve as grounds for rejection of the bid serve as grounds for rejection of the bid by the School Board.

A Bidder's failure to file a protest within the time prescribed in Section 120.57(3), Florida Statutes, shall constitute a waiver of the right to protest under Chapter 120, Florida Statutes, or by any other means.

Award of the contract will be made to the lowest responsible Bidder for the actual amount bid; however, the School Board reserves the right to reject all bids as provided by law.

All bids shall be binding for a period of 60 calendar days from the date of bid opening or until School Board approval of the bid, whichever occurs first. The bid amount of the successful Bidder, once approved by the School Board, shall not be subject to change or withdrawal.

5. AIA DOCUMENT A310, BID BOND - REQUIRED

If a Bid Bond is required, the Bid and Bid Bond must be accompanied by a certified check or cashier's check in an amount equal to five (5) percent of the total bid and shall be made payable to the "School Board of Volusia County Florida." The bond or check shall be irrevocable for 60 calendar days from the date of bid opening or until School Board approval of the bid, whichever occurs first.

All Bidders shall submit one (1) copy of the Bid Bond on form AIA Document A310 Bid Bond. Surety companies providing Bidders' bonds shall be licensed to operate in the State of Florida and shall be rated "excellent" or better by Best Insurance Rating Guide. The bond shall be signed or countersigned by a

Florida Resident Agent. You must provide a signed Power of Attorney for each copy of the bond. A Bidder may, at its option, submit a certified check from a Florida bank or a cashier's check as bid security, original and one photostat copy required.

6. SUBCONTRACTOR DISCLOSURE

Bidders shall furnish, on the FAC Document 633, List of Subcontractors form, a full disclosure of subcontractors to be utilized on the project or a clear representation of the Bidder's intent to self-perform the work, as defined, as an attachment to FAC Document 632, Bid Form.

7. EXAMINATION OF SITE

Bidders are required to visit the construction site, prior to bidding, compare the Drawings and Specifications with any work in place and inform themselves of all conditions thereof. Failure to visit site will in no way relieve the successful Bidder from furnishing materials or performing any work necessary to complete the project in accordance with the contract documents, and specifications.

8. ADDENDA

Only those Contractors who attend the mandatory pre-bid meeting will be notified via email of the issuance of Addenda for this project. All addenda will be published on the Owner's website. (Note: addenda for proposal projects not published online.)

9. PUBLIC ENTITY CRIME INFORMATION STATEMENT

All invitations to bid as defined by Section 287.012(11), Florida Statutes, requests for proposals as defined by Section 287.012(16), Florida Statutes, and any contract document described by Section 287.058, Florida Statutes, shall contain a statement informing persons of the provisions of paragraph (2)(a) of Section 287.133, Florida Statutes, which reads as follows:

"A person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid on a contract to provide any goods or services to a public entity, may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit bids on leases or real property to a public entity, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity, and may not transact business with any public entity in excess of the threshold amount provided in Section 287.017, for CATEGORY TWO for a period of 36 months from the date of being placed on the convicted vendor list."

10. BID PROTEST BOND

As a condition precedent to filing a bid protest pursuant to Section 120.57(3)(f), Florida Statutes, a protestor shall post a bid protest bond consistent with Section 255.0516, Florida Statutes Any failure by a protestor to file a bid protest bond with the School Board at the time of filing a bid protest shall result in a dismissal with prejudice of the protest for failure to comply with Section 255.0516, Florida Statutes All bid protests must be accompanied by a bid protest bond in the form provided herein and a certified check or cashier's check in an amount consistent with that identified in Section 255.0516(1) or (2), Florida Statutes for this project.

11. CONTRACTOR ACKNOWLEDGMENT FORM

The successful Contractor shall submit an executed Contractor Acknowledgment Form (included in these specifications) to Facilities Services before work begins. On this form the Contractor acknowledges that it has been given access to and has read the asbestos survey, management plan, re-inspection report (if applicable) and/or the certificate of final inspection (if applicable) for the school it will be working in. Further, it acknowledges that the Contractor must cease work and notify the project manager and asbestos program manager in the event of encountering materials not previously identified by the aforementioned reports.

This document must be submitted with the executed contract documents.

12. CONTRACT

The successful Bidder shall execute the Contract for the amount as submitted by the Bidder and approved by the School Board, within ten (10) working days after written notification of acceptance. A binding contract exists upon the issuance of the School Board's Notice of Acceptance of Bid.

The terms and conditions of this Solicitation shall prevail over any other conflicting language until the award of the contract to the lowest responsible Bidder and issuance of the School Board's Notice of Acceptance of Bid.

13. FAC DOCUMENT 640, PERFORMANCE AND PAYMENT BOND - REQUIRED

If a Performance and Payment is required, the successful Bidder shall submit four (4) signed copies of a Performance and Payment Bond from a surety insurer authorized to do business in the State of Florida equal to one hundred percent (100%) of the total contract amount. The School Board's standard Bond Form, included herein, shall be used to submit the information. The Performance and Payment Bond shall be submitted simultaneously with the execution of the Contract. The Performance and Payment Bond shall be subject to the provisions of Section 255.05, Florida Statutes, and shall not expire until one (1) year after the date of the Certificate of Final Payment. The Performance and Payment Bond shall be executed on the same day as the Contract and shall include a Power of Attorney for each copy of the Bond.

14. LIQUIDATED DAMAGES

The parties acknowledge the School Board will suffer damages if the project has not reached Substantial Completion and Final Completion on the dates set forth in the Contract. The damages suffered by the School Board, in the event of a delay, are not readily ascertainable. Due to the difficulty in ascertaining the damages, the Contractor and the Contractor's surety shall be liable for and shall pay, as liquidated damages, the sum of Three Hundred dollars and Zero cents (\$300.00) per calendar day for each calendar day or part thereof, the delay in the project continues beyond the deadline set by the terms of the Contract for Substantial Completion of the work. The parties acknowledge that these sums are not a penalty, but are the amount agreed upon by the parties as liquidated damages representing the losses to the School Board which would be incurred in the event the project is delayed by the Contractor beyond the date of Substantial Completion and the date of Final Completion as set forth in the Contract.

15. TIME OF THE ESSENCE

Any time periods provided for herein which shall end on a Saturday, Sunday, or a legal holiday shall extend to 5:00 p.m. of the next business day. Time is of the essence in this Contract.

		TRANSPORTATION WAREHOUS	E-DELAND REPLACE EMERGENCY GE	NERATOR AND EREEZER LIGHT	ING (2448044)				
TYPE	DESCRIPTION	DESIGN SELECTION	APPROVED SUBSTITUTION	APPROVED SUBSTITUTION	VOLTS	ССТ	WATTAGE	LUMENS	LAI
EM2C	TWO HEAD NICKEL CADMIUM BATTERY POWERED EMERGENCY LIGHT WITH TEST SWITCH AND INDICATOR LIGHT. SUITABLE FOR LOW TEMPERATURE APPLICATIONS. SUITABLE FOR CEILING MOUNTING	BEGHELLI# BRV-12-42- (LED MR16 7W)-NC-IH	DAYBRITE # MULE LIGHTING#	LITHONIA #	120	4000K	(2) 7W		
EM2W	TWO HEAD NICKEL CADMIUM BATTERY POWERED EMERGENCY LIGHT WITH TEST SWITCH AND INDICATOR LIGHT. SUITABLE FOR LOW TEMPERATURE APPLICATIONS. SUITABLE FOR WALL MOUNTING	BEGHELLI# BRV-12-42- (LED MR16 7W)-NC-IH	DAYBRITE # MULE LIGHTING#	LITHONIA #	120	4000K	(2) 7W		LE
\sim			\sim \sim				h		
EM2	TWO HEAD LED NICKEL CADMIUM BATTERY POWERED EMERGENCY LIGHT WITH TEST SWITCH AND INDICATOR LIGHT.	DUAL-LITE # EV4-02L	BEGHELLI# MULE LIGHTING#	EVENLITE#	120-277		4	(2) 2 WATT	LE
V2	FOUR (4) FOOT LONG 4X LED LUMINAIRE, ONE- PIECE FIBERGLASS BODY, FROSTED ACRYLIC LENS, UL LISTED FOR WET LOCATIONS. SUITABLE FOR -40F LOW TEMPERATURE APPLICATIONS. COMPLETE WITH MOUNTING HARDWARE.	ILP # BL4-12L-UNV-4000K-FRAL-SS -BL-RMBSS HUBS AS REQUIRED	DAYBRITE #	LITHONIA #	120-277	4000K	80	12,790	LE
X1	EXIT SIGN, SINGLE FACE, THERMOPLASTIC HOUSING AND FACE, UNIVERSAL MOUNT, INDIRECT LED TYPE, RED LETTERS. NICKEL CADMIUM BATTERIES. UL WET LOCATION LABEL. SUITABLE FOR LOW TEMPERATURE APPLICATIONS.	BEGHELLI# WLX-SA-LR-1-X-IH	DAYBRITE # MULE LIGHTING #	LITHONIA #	120-277	4000K	2		LE
	LIGHTING FIXTURE SCHEDULE GENERAL NOTES:								1
	(1) CONTRACTOR SHALL CAREFULLY COORDINATE THE LIGH CEILING.	ITING FIXTURE TRIM TYPES WITH THE	TYPE OF CEILING WHERE THE LIGHT	NG FIXTURES ARE TO BE INST	ALLED. MODIFY FIXTUR	E CATALOG NUMBE	R AS REQUIRED TO	COORDINATE F	IXTURE W
	(2) ALL FIXTURES TO HAVE IN-LINE FUSE AND FUSE HOLDER								

(4) MANUFACTURER SHALL PROVIDE A WARRENTY AGAINST LOSS OF PERFORMANCE AND DEFECTS IN MATERIALS AND WORKMANSHIP FOR THE LUNINAIRS FOR A PERIOD OF 10 YEARS AFTER ACCEPTANCE OF THE LUMINAIRES. WARRANTY SHALL COVER ALL COMPONENTS COMPRISING THE LUMINAIRE.

(5) AT TIME OF PURCHASE, ALL APPROVED MANUFACTURERS MUST BE USING CREE, PHILLIPS, SAMSUNG, BRIDGELUXE LED'S, NO OTHER LED MANUFACTURERS ARE PERMITTED.

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REVISIONS BOCUMENT HISTORY DOCUMENT HISTORY NO. DATE DESCRIPTION 1 05/30/24 RE-BID 1 05/30/24 ADDENDUM NO. 1
TRANSPORTATION WAREHOUSE - DELAND REPLACE EMERGENCY GENERATOR AND FREEZER LIGHTING VCS Project NO. 2448044 1301 SHAPIRO DRIVE DELAND, FL 32724
ARCH/ENGR OF RECORD Engineer Adrian W. Baus, P.E. DESIGNED BY AWB ISSUE DATE 01/04/2024 REPROJECT NUMBER MPE 2023-148 SHEET TITLE LIGHT FIXTURE SCHEDULE
E003









	FEEDER SCHEDULE:	WAR	EHOUSE - DI	ΕI
FEEDER FEEDING	OCP AMP SIZE	VOLTS	FEEDER AMPACITY	,
GDP (NEW)	1200	208	1240	
GDP (NEW) ATS-NORM	1200	208	1240	
GDP (NEW) ATS-EMERG	1200	208	1240	
GHP	100	208	100	
PDP1	600	208	620	
PDP3	225	208	230	

GENERAL NOTES:

1) CONDUIT SIZE IS BASED ON 2017 N.E.C. FOR EMT, IMC, RMC, FLEXIBLE METAL, AND SCHED 40 PVC. IF ANY OTHER TYPE OF CONDUIT/TUBING IS USED, THE CONTRACTOR SHALL RESIZE CONDUIT AND SIZE AS REQUIRED TO COMPLY WITH THE N.E.C..

²⁾ USE CABLE REDUCERS AT TERMINATIONS AND/OR AT/IN JUNCTION BOX NEAR TERMINATIONS AS REQUIRED TO COORDINATE OVERSIZED PHASE OR NEUTRAL CONDUCTORS WITH TERMINATION LUG SIZE OR PROVIDE TERMINATION/LUGS SIZED FOR FEEDERS.

3) CONTRACTOR IS TO MEGGER TEST ALL FEEDERS PER SPECIFICATIONS.

['] WHERE DISCONNECT SWITCH (DISC SW) IS INCLUDED IN THE NAME UNDER "FEEDER FEEDING", PROVIDE DISC SW TO MEET ALL ELECTRICAL CHARACTERISTICS PER THIS SCHEDULE, INCLUDING SCCR RATING. PROVIDE FUSE IN FUSIBLE SWITCHES OR PROVIDE UPSTREAM CIRCUIT BREAKER, WHERE NON-FUSED SWITCHES ARE USED, AS REQUIRED BY DISCONNECT SWITCH MANUFACTURER FOR SHORT CIRCUIT AMPS SHOWN.

RENOVATION POWER RISER DIAGRAM

NOT TO SCALE NOTE: EXISTING ITEMS ARE SHOWN DASHED ON THIS DIAGRAM

DATE: 4/22/2024 COPYRIGHT: ME, LLC 2009 VERSION: A8d6 REV: 2-14-2023 ELAND SHORT FEEDER PARALLEL | CONDUIT | CIRCUIT NEUTRAL GROUND EXTRA FEEDER VOLTAGE WIRE/PHASE RUNS | SIZE (IN) | AMPS AT WIRE WIRE NEUTRAL MATERIAL DROP (%) PANEL 0% #350 KCMIL #350 KCMIL #3/0 COPPER 4 3.5 COPPER 3.5 0% #350 KCMIL #350 KCMIL #3/0 4 #350 KCMIL #350 KCMIL #3/0 COPPER 3.5 2% 4 COPPER #6 1 2 2% #2 #2 3.5 #350 KCMIL #350 KCMIL #1 COPPER 0% 2 COPPER #4/0 #4/0 #4 1 2.5 0%

NOTE: SYSTEM CONFIGURATI SHOWN ON THIS SHEET IS ON ALTERNATE NO. 1 ACCI UNLESS OTHERWISE NOTED.

HEX NOTES	
ALTERNATE NO. 2: GENERATOR DOCKING AMP INTERLOCKED CIRCUIT BREAKERS F BANK AND A TEMPORARY GENERATOR. CONSIST OF (4) SETS OF FEMALE CAM TEMPORARY GENERATOR CONNECTION TO CAM LOCKS. PROVIDE 12 INCH THICK FOR DOCKING STATION. REFER TO DET GENERATOR FEEDER SHALL BE ROUTED AND DOCKING STATION CONNECTED TO AS PART OF THIS ALTERNATE NO. 2.	
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	<u>GENERAL NOTES</u> 1) REFER TO GENERAL NOTES FOR THIS DISCIPLINE.
	2) REFER TO SPECIFICATIONS.
	3) WHERE CONDUIT ROUTING IS SHOWN, THE CONDUITS ARE SHOWN FOR DIAGRAMMATIC PURPOSES AND ARE NOT NECESSARILY REPRESENTATIVE OF EXACT PLACEMENT.
	4) REWORK/RELOCATE EXISTING ELECTRICAL AS REQUIRED TO FACILITATE CONSTRUCTION.
	5) CONTRACTOR SHALL MAINTAIN CONTINUITY TO EXISTING DEVICES REMAINING.
	6) ALL EXISTING ELECTRICAL IS NOT SHOWN.
	7) VERIFY EXISTING PHASE ROTATIONS AT ALL EXISTING EQUIPMENT PRIOR TO DISCONNECTING ANY LOADS. VERIFY PHASE ROTATION HAS NOT CHANGED PRIOR TO REENERGIZING ANY LOADS.
	8) CONTRACTOR SHALL MAINTAIN CONTINUITY TO EXISTING DEVICES REMAINING.
	9) REFER TO PANEL SCHEDULES AND FEEDER SCHEDULES FOR CONNECTIONS TO ADDITIONAL EQUIPMENT NOT SHOWN IN PLAN VIEW.
	10) VERIFY EXISTING PHASE ROTATIONS AT ALL EXISTING EQUIPMENT PRIOR TO DISCONNECTING ANY LOADS. VERIFY PHASE ROTATION HAS NOT CHANGED PRIOR TO REENERGIZING ANY LOADS.
	11) ALL CONNECTIONS TO EXTERIOR ENCLOSURES MADE AT OTHER THAN BOTTOM OF ENCLOSURE SHALL BE MADE WITH WEATHERPROOF MYERS HUBS.
	5) MAINTAIN OPERATION OF ELECTRICAL SYSTEM DURING BUILDING OPERATIONAL HOURS. ALL WORK SHALL BE DONE AT NIGHT AND ON WEEKENDS.
FOUR OF RUNS OF 3.5"C. TWO RUNS FACH HAVE (4)350 KCMII	6) ALL POWER OUTAGES SHALL BE SCHEDULED WITH AND APPROVED BY VCS PROJECT MANAGER 1 WEEK IN ADVANCE. FOR ANY OUTAGE LASTING MORE THAN 2 HOURS PROVIDE TEMPORARY POWER TO ANY AND ALL REFRIGERATORS AND FREEZERS IMPACTED BY OUTAGE.
COPPER, (1) #3/0 GROUND TWO RUNS ARE SPARE.	7) TRACE OUT CIRCUITS AND PROVIDE UPDATED TYPED PANEL SCHEDULE FOR ANY PANEL ASSOCIATED WITH PROJECT.
	8) PROVIDE NEW ENGRAVED NAMEPLATES ALL NEW AND EXISTING EQUIPMENT CLEARLY IDENTIFYING LOAD SERVED AND THE SOURCE.
	HEX_NOTES
	1 REMOVE EXISTING DISCONNECT SWITCH COMPLETE. REMOVE LINE SIDE
	AND LOAD SIDE CONDUCTORS COMPLETE BACK TO LOAD AND SOURCE. $\langle 2 \rangle$ REMOVE LINE SIDE CONDUCTORS COMPLETE BETWEEN GENERATOR AND
	$\overline{3}$ REMOVE LOAD SIDE CONDUCTORS COMPLETE BETWEEN DISCONNECT
	AND AUTOMATIC TRANSFER SWITCH.
	LOAD SIDE CONDUITS AND CONDUCTORS.
<u>/-24</u> >	(5) REMOVE CONDUCTORS FROM EXISTING GENERATOR CONTROL CONDUIT(S).
	$\langle 6 \rangle$ existing conduit and conductors to be intercepted and extended to new equipment.
	$\langle 7 \rangle$ provide 1–1/2" or larger conduit for generator control wiring. Confirm requirements with generator supplier.
	8 AUTOMATIC TRANSFER SWITCH. 1000 AMP, 120/208 VOLT, 3 PHASE, 4 WIRE, 4 POLE, RATED 65K AMPS WITHSTAND RATING. PROVIDE WITH TYPE 1 SURGE SUPPRESSOR RATED 100KA ON INCOMING NORMAL SIDE AND TYPE 1 SURGE SUPPRESSOR RATED 200 KA ON INCOMING
	Emergency side. (9) install pull string, and cap/mark existing conduit.
	(10) NOT USED.
ION BASED	$\langle 11 \rangle$ provide New 1000 AMP 3 Pole circuit breaker and associated mounting accessories in existing switchboard.
EPTANCE	(12) PROVIDE (4) #350 KCMIL COPPER, (1) #2 COPPER GROUND, IN 3.5" C TO EXTEND EXISTING FEEDER TO NEW PANEL.
	(13) NEMA 1 SCREW COVER PULL BOX SIZE AS REQUIRED PER NEC.
	$\langle 14 \rangle$ NEMA 4SS HINGED DOOR PULL BOX SIZE AS REQUIRED PER NEC.
XING STATION TO INCLUDE 1200	TRANSFER SWITCH. PROVIDE NEW 1000 AMP CURRENT TRANSFORMERS TO MATCH UPGRADE IN FEEDER. RELOCATE/REPLACE NETWORK CONNECTION TO NEW METER LOCATION. PROGRAMMING AND STARTUP OF METER SHALL BE OBTAINED FROM SIEMENS AND SHALL BE BY SIEMENS FIELD SERVICES TECHNICIAN.
s for connection of a load R. Load Bank connections to Am lock connections.	$\langle 16 \rangle$ surge suppressor. See specifications.
TO CONSIST OF (4) SET OF MALE CK REINFORCED CONCRETE PAD	12 LIGHTNING ARRESTOR. CONNECT TO LINE SIDE OF INCOMING SERVICE. 18 INSPECT, TEST, AND SUPPLEMENT EXISTING GROUND AS REQUIRED TO
ED THROUGH DOCKING STATION TO GENERATOR GROUNDING SYSTEM	COMPLY WITH SPECIFICATIONS. (19) #3/0 COPPER GROUND WIRE TO (THREE) 60' Y 5/8" CODDEDWELD
······	DRIVEN GROUND RODS.
	REINFORCING STEEL WITH AN EXOTHERMIC WELD.
	\sim 1/ Provide #3/U ground ring encircling new generator PAD. (22) #3/0 COPPER GROUND WIRE TO INTERCONNECT EXISTING MDP GROUND
	\sim rods with NeW Generator ground rods. (23) Generator house panel provided as part of generator
	ENCLOSURE BY ENCLOSURE FABRICATOR. PANEL TO BE 120/208 VOLT 3 PHASE WITH 100 AMP MAIN BREAKER AND BRANCH BREAKERS AS REQUIRED FOR GENERATOR HOUSE AND ACCESSORIES. PANEL SHALL INCLUDE (1) 3 POLE 30 AMP CIRCUIT BREAKER FOR SURGE PROTECTION DEVICE. ACTUAL SURGE PROTECTION DEVICE TO BE PROVIDE BY ELECTRICAL CONTRACTOR AND INSTALLED IN EVELD
	24) EXISTING GENERATOR PAD TO REMAIN FOR POTENTIAL FUTURE USE.
	REMOVE AINCHORS OR COLLFLUSH WITH PAD SURFACE. CONDUITS TO BE CAPPED EVEN WITH TOP OF PAD. CONDUIT WINDOW TO BE FILLED WITH GRAVEL UP TO TOP OF PAD.

	A. echani echno	Cal • Elect logy • Cor 130 C Maitl No. EB-000 AUTH. No. 3 MPE J	Cand and, 05096 00B #: 2	Plumbin oning • ace FL 3 PHC FAX 2023-1	Pire Fire Energy Drive 3275 DNE (40 48	e Proté r Engin e 1 77) 740-	Control Contro	
REVISIONS	DOCUMENT HISTORY	NO. DATE DESCRIPTION 04/26/24 RE-BID	1 05/30/24 ADDENDUM NO. 1					
TRANSPORTATION WAREHOUSE - DELAND REPLACE EMERGENCY GENERATOR AND FREEZER LIGHTING VCS Project NO. 2448044 1301 SHAPIRO DRIVE DeLAND, FL 32724								
Engi Adria Designed AWB	nee an V BY B	r V. Bau	us, P	P.E. DRAWN MN AE PRO	а N BY 1/AV	RCH/ENG	GR OF R	ECORD
AE PROJECT NUMBER 01/04/2024 MPE 2023-148 SHEET TITLE POWER RISER DIAGRAM (ALTERNATES) DRAWING NO. FEAD2								

Permanent Generator	Load Bank	K K K K K Temporary	— To Load/ATS	
	STAR*		Hardwire Lug Male Cam Lock Female Cam Lock Load Center Kirk Key Interlock System Circuit Breaker Silver Plated Busbar	Manual Transfer Switch Class CC Fuse Holder Phase Rotation Monitor Auto Start Terminals Terminal Block Connection Point Strip Heater
STANDARD FEATUR SILVER PLATED CO PHASE ROTATION CABLE RAKE THEF PAD MOUNT ENCL NEMA 3R ALUMINI ADDITIONAL STANE K2 - KIRK KEY	RES: DPPER BUSBAR MONITOR T PREVENTION SYSTEM OSURE JM (HAMMER GRAY POWDE DARD FEATURES: NTERLOCK TEMPORARY UN	R COAT) E BRFAKFR TO PFRMANF	NT LINF RRFAKFR	
PERMANENT LINE: 1 X 1200A 3P SI 4 X 600MCM MEC 4 X 600MCM NEL 4 X 600MCM GRC PERMANENT LOAD: 4 X 600MCM MEC 4 X 600MCM NEL 4 X 600MCM GRC	EMENS MAIN BREAKER KIR Chanical Lug Per Phase JTRAL DUND CHANICAL LUG PER PHASE JTRAL DUND	K KEY INTERLOCKED TO	TEMPORARY GENERATOR	R BREAKER:
TEMPORARY LOAD 1 X 1200A 3P SI 4 SETS OF 16 SI 2 16 SERIES MAL PERMANENT CONN	BANK CONNECTION: EMENS MAIN BREAKER ERIES FEMALE CAMLOKS P E CAMLOKS FOR GROUND ECTIONS:	ER PHASE, NEUTRAL		
TEMPORARY GENE 1 X 1200A 3P SI 4 SETS OF 16 SI 2 16 SERIES MAL 4 X 350MCM ME(2 X 350MCM ME(RATOR LINE CONNECTION: EMENS MAIN BREAKER KIF ERIES MALE CAMLOKS PER E CAMLOKS FOR GROUND CHANICAL LUGS PER PHAS CHANICAL LUGS FOR GROU	K KEY INTERLOCKED TO PHASE, NEUTRAL E, NEUTRAL, ND	PERMANENT LINE BREA	KER
TRYSTAR TBDS-2 1200 AMPS 208/120V (3H+N ETL LISTED TO UL PAD MOUNT ENCL NEMA 3R ALUMINU TEMPORARY CONN	JR DUCKTING TRIPLE BREAKER DUAL PI +G) 1008 STANDARDS, UL 50 OSURE JM (HAMMER GRAY POWDE IECTIONS:	<u>STATION (ALT</u> JRPOSE WITH KIRK KEY I D LISTED, 65KAIC R COAT)	<u>ERINATE INU</u> NTERLOCK	<u>, </u>

					COPT		ie, llu	06/01/0	3			
VOLTS L/N:	VOLTS L/N: 120											
VOLTS PH.:								PANEL : GDP (NEW)				
PHASE :	3							MLO(**	*)	1200		
MOUNTING :	Surface							МСВ				
TYPE :								SH.TRI	Р			
MFR :	SIEMENS											
GENERAL NOTES:									<	AIC	RATING	
(1) ALL C.B. 5 FEEDING			2. DE				SERIES					
(2) ALL C.B. S FEEDING				C.	,			FULLY	RAIED		65	
(4) ALL C.B.'S FEEDING (5) NO MULTIWIRE BR/ (6) NOT USED.	ATED. WED						(*) NOTI	E: MAY F	Require ful	L RATING		
TOTAL AMPS A PH TOTAL AMPS B PH TOTAL AMPS C PH INFO CODE:	723 723 723					(***)	NOTE: INCREA BREAK	SIZE SH ASE SIZ (ER SIZE	IOWN IS E IF RE(E/AIC RA	MINIMUM A QUIRED TO ATING AS C	ACCEPTAE ACHIEVE ALLED FO	
SECTION 1 WITH MAIN	S]						
	LOAD						C.P.	C P	DEE			
DESCR	IPTION	CONN	TYPE	AMPS	AMPS	AMPS	AMPS	POLE	NOTE	CKT. NO.	CKT. NC	
PANEL: GHP		30	14.0	30			100	3		1	2	
		30	14.0		30					3	4	
		30	14.0			30				5	6	
PANEL: PDP3		30	14.0	30			225	3		7	8	
		30	14.0		30					9	10	
		30	14.0			30				11	12	
PANEL: PDP1		750	14.0	563	500		600	3		13	14	
		750	14.0		563	500				15	10	
		/ 50	14.0			503	200			17	10	
	NECT	100	50	400		1			1	19	20	
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WAREHOUSE DISCON	NECT	100 100 100	5.0 5.0 5.0	100	100	100	300 125	 		21 23 25	22 24 26	
WAREHOUSE DISCON SPARE	NECT	100 100 100	5.0 5.0 5.0 0.2 0.2	100	100	100	300 125	3 3		21 23 25 27	22 24 26 28	
WAREHOUSE DISCON SPARE		100 100 100	5.0 5.0 5.0 0.2 0.2	100	100	100	300 125 	3 3 		21 23 25 27 29	22 24 26 28 30	
WAREHOUSE DISCON SPARE SPACE	NECT	100 100 100	5.0 5.0 0.2 0.2 0.2	100	100	100	300 125 	3 3 		21 23 25 27 29 31	22 24 26 28 30 32	
WAREHOUSE DISCON SPARE SPACE		100 100 100	5.0 5.0 0.2 0.2 0.2	100	100	100	300 125 	3 3 3		21 23 25 27 29 31 33	22 24 26 28 30 32 34	
WAREHOUSE DISCON SPARE SPACE		100 100 100	5.0 5.0 0.2 0.2 0.2	100	100	100	300 125 	3 3 3 		21 23 25 27 29 31 33 35	22 24 26 28 30 32 34 36	
WAREHOUSE DISCON SPARE SPACE SPACE SPACE		100 100 100	5.0 5.0 0.2 0.2 0.2		100	100	300 125 	3 3 3 3		21 23 25 27 29 31 33 35 37	22 24 26 28 30 32 34 36 38	
WAREHOUSE DISCON SPARE SPACE SPACE SPACE		100 100 100	5.0 5.0 0.2 0.2 0.2			100	300 125 	3 3 3 3		21 23 25 27 29 31 33 35 37 39	22 24 26 28 30 32 34 36 38 40	

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TYPE WRITTEN PANEL DIRECTORIES SHALL BE PROVIDED FOR EACH PANEL AS REQUIRED BY THE 2017 NEC. DIRECTORIES SHALL IDENTIFY LOAD AND THE ROOM(S) WHERE LOADS ARE LOCATED IN SUFFICIENT DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHED FROM ALL OTHERS. ROOM NUMBERS SHALL BE ACTUAL ROOM NUMBERS USED FOR ROOM SIGNAGE.

											Mechan Techno ENG. BUS. CERT. OF	AT ical • Electrical • bogy • Commiss 130 Cane Maitland No. EB-0005096 AUTH. No. 5096 MPE JOB #:	Plumbing • Fire Protectil ioning • Energy Engineer dace Drive PHONE (407) 740-502 FAX (407) 740-036 2023-148	on s 0 5
	VE	RSION:	С13Ь	RE	VISED:	04/01/24					REVISIONS DOCUMENT HISTORY	NO. DATE DESCRIPTION 04/26/24 RE-BID 1 05/30/24 ADDENDUM NO. 1		
	LOC	ATION:						EXISTING : SECTIONS : NEMA 3R :	<u>NO</u> 1					
65 ATING TO	ACHIEVE	KA(*) KA				NOTES / MFR = S \$ = N & = R SH = S AF = A G1 G2	AND REFERENCE NOTES IZE CB PER MFR. RECOM EW CB IN EXIST SPACE REPLACE EXIST CB WITH SHUNT TRIP C.B. IRC FAULT CB GFCI CB GFPE CB	: IMENDATIONS. NEW			- DELAND	TOR AND	4	
EPTABLI IIEVE QU ED FOR I	E MLO AN ANTITY (N SCHEE	IPERAG DF POLE DULE.	E. S OR				OPTIONAL CALC CONNECTED LOAD DEMAND DIVERSITY TRANSFORMER SIZE	NO 328 KVA 246 KVA 246 KVA 	910 683 683	AMPS AMPS AMPS	HOUSE	ENERA	244804 244804 RIVE	1 24
	REF	С.В.	С.В.				LOAD	WIDTH: 44	DEPTH:	10.00		U U U		32
2	NOTE	POLE	AMPS 100	AMPS	AMPS	AMPS	DESCRIPTION		CONN	TYPE 0.2	A R H		л <mark>Х</mark> Я Г	
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											DESIGNED BY	,	DRAWN BY	
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											AWB ISSUE DATE		AE PROJECT NUMBER	
											AWB ISSUE DATE 01/04/20)24	MM/AWB AE PROJECT NUMBER MPE 2023-14	48

PANEL SCHEDULES

E603

DRAWING NO.

SCHE	DULE KEY
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