Syracuse Regional Airport Authority

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RFP #2025-07
ADDENDUM #1
Issued __4/7/2025____

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1. INSTRUCTIONS

TO ALL HOLDERS OF CONTRACT DOCUMENTS

Your attention is directed to the following interpretations of, changes and additions to the Contract Documents for the project, "Air Cargo Road Overflow Parking Lot & Maintenance Employee Lot" at Syracuse Hancock International Airport.

This Addendum constitutes part of the Contract Documents. Should conflicts occur between the Specifications or Drawings with items in the Addendum, the Addendum shall govern. Bidders shall carefully examine all items and determine for themselves what sub-bidders are affected, and notify all bidders or sub-bidders of clarifications, interpretations, or revisions affecting their work. Work described in this Addendum shall be in accordance with specifications for like items unless stated otherwise.

2. CONTRACTOR QUESTIONS

RFI #1: Transformer / Panel Enclosure Concrete Pad by others.
Response to RFI #1: Transformer / Panel Enclosure Concrete Pad to be included in Item S-804-1. Concrete work for transformer/panel pad must be coordinated with the general contractor.

RFI #2: Concrete vault by others.
Response to RFI #2: Concrete vault to be included in Item S-804-1.
Concrete work for transformer vault must be coordinated with the general contractor.

RFI #3: Pre-cast Pole Bases by EC.
Response to RFI #3: Light pole bases to be included in items S-850-5.1 and S-850-5.2.

RFI #4: Please clarify completion date. Confirm it is really end of June 2025.
Response to RFI #4: End of June 2025 is the target completion date. Contractor shall make every effort to complete the project within that time frame.

RFI #5: Drawing E501

a. 13.2 kV feeder from the Existing Utility Switchgear, Spare

ii. Detail 2/E501 - Diagram calls for 1-1/C - #2 AWG 13.2 kV feeder from the Existing Utility Switchgear, Spare
Response: Noted

iii. Feeder Schedule, feeder 1 calls for 1-1/C - #2 AWG THWN
Response: Revised conductor type to MV-90.

iv. Please clarify number of conductors based on the required transformer.

Response: - 1 conductor per phase (or number of parallel sets), -1/C-One conductor, three separate conductors are used for a circuit, one for A phase, and one for B phase, 1 for C phase.

v. Please clarify Number of sets of conduits and single MV-105, 15 kV, 105 degree C, shielded conductors required.
Response: 1 set of conductors, one conductor per phase. Raceway type will need to be verified with utility company requirements.

b. Transformer 13.2 - .24 kV

i. Detail 2/E501 - Single One-Line Diagram calls for a 25 kV Delta WYE Transformer.
Response: Noted

ii. Transformer Schedule calls for a 15 kV single phase transformer.
Response: Noted

iii. Request: Please Clarify which is desired.
Response: Install 25 kVA single phase transformer.

c. Pnl-ACR-1

i. Panelboard Schedule indicates panelboard to be 120/240V, Phase: 1, Wires: 3 when transformer serving it is indicated on the one-line to be a delta/wye.
Response: Transformer will be single phase transformer-not delta/wye

Please clarify

a. Electrical Branch Circuit Schedule, Pnl-ACR-1, ckt. 1

i. ckt. 1 - wire size calls for a (1) - 1/C 6AWG.

ii. Detail 2/E501 - Single One-Line Diagram calls for a (2) - 1/C 6AWG.
Response: This has been revised in the single line diagram. Pnl-ACR-1 CKT 1 requires (1) – 1/C 6 AWG.

iii. Conductor qty (phase & neutral).
Response: CKT1 shall consist of one conductor per phase and one full size neutral (6 AWG) single phase circuit.

iv. Ground conductor (size).
Response: Minimum ground conductor size shall be 12 AWG.

b. Electrical Branch Circuit Schedule, Pnl-ACR-1, ckt 2

i. ckt. 2-wire size calls for a (1) – 1/C 6 AWG

ii. Detail 2/E501-Single One-Line Diagram calls for a (2)-1/C 6 AWG.
Response: Pnl-ACR-1 CKT 2 requires (2) -1/C 6 AWG due to the voltage drop associated with the length of the circuit. Refer to Electrical Branch Circuit Schedule and Detail 2/E501.

iii. Conductor qty (phase & neutral).

Response: CKT 2 shall be (2) parallel sets consisting of one conductor per phase, and one full size neutral (6AWG). Single phase circuit.

iv. Ground conductor (size).

Response: Minimum ground conductor size shall be 12 AWG.

RFI #6: Detail 2/E501 - Single One-Line Diagram

i. Junction Box 1 - wire size calls for a (1) - 1/C 14 AWG.

Response: This has been updated to 12 AWG. Refer to detail 2/E501.

Please Clarify

ii. Conductor size (due to voltage drop)

Response: One 6 AWG conductor shall provide for less than 3% voltage drop at 240 ft. circuit length.

iii. Conductor qty (phase & neutral)

Response: The incoming conductor to Junction Box 1 shall be: (1) 6 AWG conductor, (1) full size neutral, and (1) 12 AWG minimum grounding conductor.

Upon making splices with Junction Box 1, the outgoing conductors going to each load shall be: (1) 12 AWG conductor, (1) full size neutral, and (1) 12 AWG minimum grounding conductor.

Final connection to access controls equipment (ENT-1, EXT-1, and GO-1) are limited to a max. wire size of 14 AWG.

iv. Ground conductor (size)

Response: 12 AWG minimum grounding conductor.

v. Junction Box 2-Wire size calls for a (1)-1/C 14 AWG

Response: This has been updated to 12 AWG. Refer to detail 2/E501.

Please Clarify

vi. Conductor size (due to voltage drop)

Response: (2) parallel sets of 6 AWG conductors shall provide for less than 3% voltage drop at 520 ft. circuit length.

vii. Conductor qty (phase & neutral).

Response: The incoming conductor to Junction Box 1 shall be: (2) 6 AWG conductor as a parallel set, (1) full size neutral, and (1) 12 AWG minimum grounding conductor.

Upon making splices within Junction Box 1, the outgoing conductor going to each load shall be: (1) 12 AWG conductor, (1) full size neutral, and (1) 12 AWG minimum grounding conductor.

Final connection to access controls equipment (ENT-1, EXT-1, and GO-1) are limited to a max. wire size of 14 AWG.

viii. Ground conductor (size).
Response: 12 AWG minimum grounding conductor.

3. AMENDMENTS TO THE CONTRACT DRAWINGS

Electrical Plans

1. Revision: E501
    - Revised wire type in Electrical Feeder Schedule
    - Revised Transformer Schedule and associated Notes
    - Revised Single Line Diagram

End of Addendum #1

NEW PANEL: PNL-ACR-1 VOLTS: 120/240V PHASE: 1 WIRES: 3		MOUNTING: SURFACE MOUNTED TO UNISTRUT LOCATION: ACR PARKING LOT				MAIN BREAKER: 110A	
ENCLOSURE: NEMA TYPE 4X							
CKT NO.	LOAD DESCRIPTION	POLES	BREAKER TRIP	BREAKER TRIP	POLES	LOAD DESCRIPTION	CKT NO.
1	**ACR ENTRANCE ACCESS CONTROLS**	**1**	**20 A**	**20 A**	**1**	**ACR EXIT ACCESS CONTROLS**	2
3	SPACE					SPACE	4
5	SPACE					SPACE	6
7	SPACE					SPACE	8
9	SPACE					SPACE	10
11	SPACE					SPACE	12
13	SPACE					SPACE	14
15	SPACE					SPACE	16
17	SPACE					SPACE	18

NOTES:
1) BASIS OF DESIGN FROM COOPER POWER SOLUTIONS XLPB INDUSTRIAL PANELBOARD IN NEMA 4X ENCLOSURE

ENTRANCE TERMINAL POWER REQUIREMENTS SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	ELECTRICAL			
			POWER CONSUMPTION	VOLTS	PHASE	HERTZ
ENT-1	ENTRANCE TERMINAL	DESIGNA CONNECT LANE 600 FULL IN	400W	120	1P	60

NOTES:
1) 24V DC CONTROL VOLTAGE
2) POWER CONSUMPTION WITH ACTIVATED OPTIONAL HEATER IS 400W. CURRENT CONSUMPTION IS MAX 3.33A
3) POWER CONSUMPTION WITHOUT HEATER IS 100W. CURRENT CONSUMPTION IS MAX 0.83A

EXIT TERMINAL POWER REQUIREMENTS SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	ELECTRICAL			
			POWER CONSUMPTION	VOLTS	PHASE	HERTZ
EXT-1	EXIT TERMINAL	DESIGNA CONNECT LANE 600 FULL OUT	400W	120	1P	60

NOTES:
1) 24V DC CONTROL VOLTAGE
2) POWER CONSUMPTION WITH ACTIVATED OPTIONAL HEATER IS 400W. CURRENT CONSUMPTION IS MAX 3.33A
3) POWER CONSUMPTION WITHOUT HEATER IS 100W. CURRENT CONSUMPTION IS MAX 0.83A

GATE OPERATOR POWER REQUIREMENTS SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	ELECTRICAL			
			POWER CONSUMPTION	VOLTS	PHASE	HERTZ
GO-1	GATE OPERATOR	DESIGNA CONNECT GATE 600	500W	120	1P	60

NOTES:
1) 24V DC CONTROL VOLTAGE
2) POWER CONSUMPTION WITH ACTIVATED OPTIONAL HEATER IS 500W. CURRENT CONSUMPTION IS MAX 7.5A
3) POWER CONSUMPTION WITHOUT HEATER IS 90W. CURRENT CONSUMPTION IS MAX 1.5A

ELECTRICAL BRANCH CIRCUIT SCHEDULE

PANEL	CIRCUIT	LOAD DESCRIPTION	VOLTAGE	OCPD RATING	APPARENT CURRENT	WIRE SIZE	WIRE TYPE	CONDUIT SIZE	CONDUIT TYPE	APPROX. CIRCUIT LENGTH	VOLTAGE DROP (VD)	VD%
PNL-ACR-1	1	ACR ENTRANCE ACCESS CONTROLS	120 V	20 A	14.6 A	(1)-1/C-6 AWG	THWN	1-1/4"	DIRECT BURIED PVC	240'-0"	2.9	2.4%
PNL-ACR-1	2	ACR EXIT ACCESS CONTROLS	120 V	20 A	14.6 A	(2)-1/C-6 AWG	THWN	1-1/4"	DIRECT BURIED PVC	520'-0"	3.2	2.7%

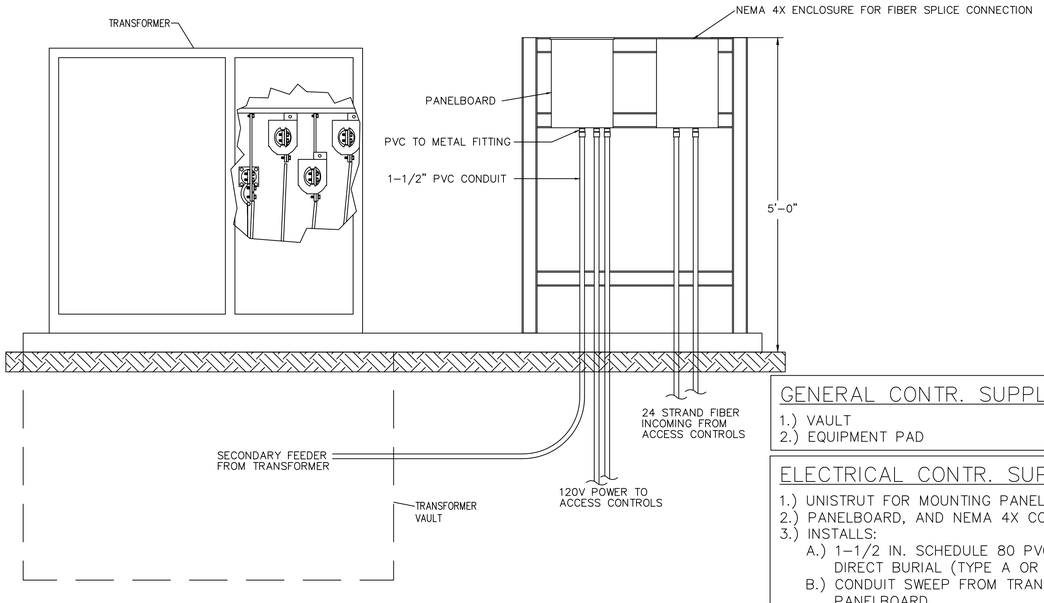
ELECTRICAL FEEDER SCHEDULE

FEEDER #	WIRE SIZE	WIRE TYPE	CONDUIT SIZE	APPROX. CIRCUIT LENGTH	COMMENT
1	1-1/C-2 AWG	MV-90	2"	215'-0"	COORDINATE WITH UTILITY COMPANY RACEWAY TYPE FOR MEDIUM VOLTAGE. VERIFY MEDIUM VOLTAGE FEEDER SIZE WITH UTILITY COMPANY.
2	1-1/C-2 AWG	THWN	1-1/2"	10'-0"	DIRECT BURIED SCH 80 RIGID PVC CONDUIT (APPROVED FOR DIRECT BURY - TYPE A OR EB). SEE SHEET E502 DETAIL 2.

TRANSFORMER SCHEDULE

NAME	KVA	PRIMARY VOLTAGE	PHASE	SECONDARY VOLTAGE	PRIMARY BIL (KV)	SECONDARY BIL (KV)	IMPEDANCE	TEMP RISE (C)	WEIGHT (LB)	FLUID	MOUNTING
TX-1	25	13200 V	1	240/120 V	95	30	5.75	65	680	ENVIROTEMP FR3 DIELECTRIC FLUID	PAD MOUNTED. SEE DETAILS.

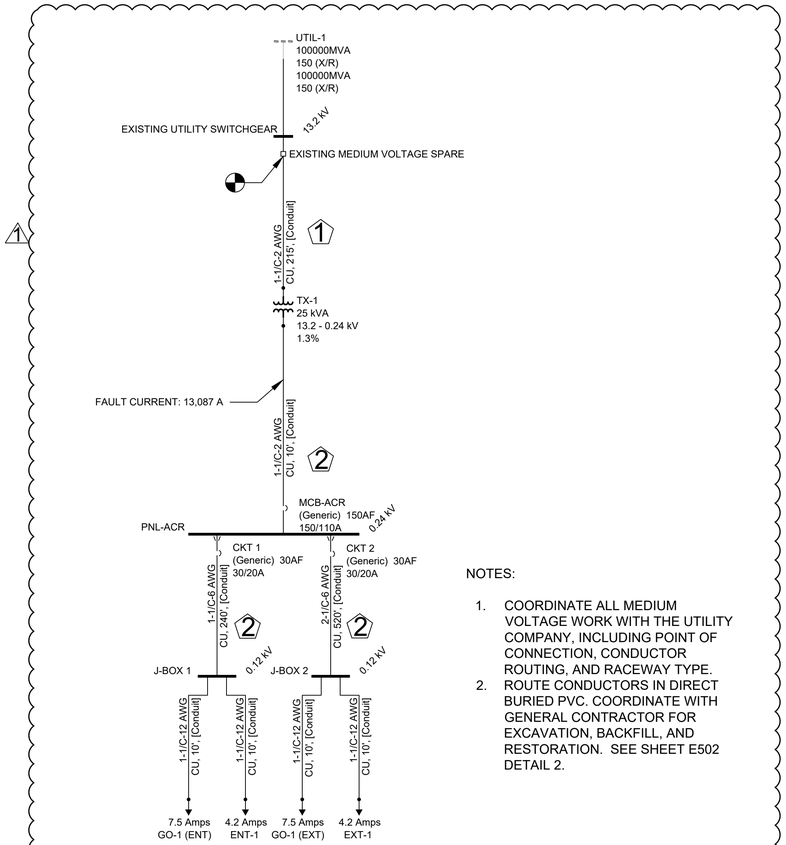
NOTES:
1) BASIS OF DESIGN FROM EATON PEAK SINGLE-PHASE PAD MOUNTED TRANSFORMER



GENERAL CONTR. SUPPLIES:
1.) VAULT
2.) EQUIPMENT PAD

ELECTRICAL CONTR. SUPPLIES:
1.) UNISTRUT FOR MOUNTING PANEL
2.) PANELBOARD, AND NEMA 4X COMMUNICATIONS ENCLOSURE
3.) INSTALLS:
A.) 1-1/2 IN. SCHEDULE 80 PVC CONDUIT LISTED FOR DIRECT BURIAL (TYPE A OR EB).
B.) CONDUIT SWEEP FROM TRANSFORMER VAULT TO PANELBOARD.

1 E501 THREE PHASE TRANSFORMER
SCALE: NTS



NOTES:
1. COORDINATE ALL MEDIUM VOLTAGE WORK WITH THE UTILITY COMPANY, INCLUDING POINT OF CONNECTION, CONDUCTOR ROUTING, AND RACEWAY TYPE.
2. ROUTE CONDUCTORS IN DIRECT BURIED PVC. COORDINATE WITH GENERAL CONTRACTOR FOR EXCAVATION, BACKFILL, AND RESTORATION. SEE SHEET E502 DETAIL 2.

2 E501 SINGLE LINE DIAGRAM
SCALE: NTS

NOTE: ALL WORK SHOWN ON THIS PLAN IS INCLUSIVE OF ITEM S-804-1.

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WATSON ENGINEERING
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AIR CARGO ROAD SURFACE PARKING LOT

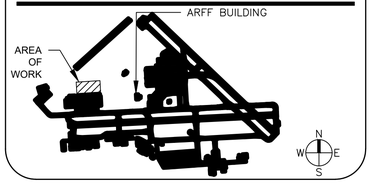
ISSUED FOR BID

DRAWING NOTES

This drawing is a planning exhibit and is not intended to serve as an Engineering document.

Syracuse Regional Airport Authority does not guarantee the accuracy of the drawing to scale. Please use caution when referencing this drawing.

All design drawings submitted to the Syracuse Regional Airport Authority must meet CAD standards set herewith.



Title ELECTRICAL SCHEDULES AND DETAILS

REVISIONS

No.	Revisions	Date	Initials
1	REV 1 - ADDENDUM 1	02 APR 2025	JWC

Date 7 MAR 2025
Author JWC
Project 19379.00
Scale

DRAWING NUMBER
E501