

ADDENDUM NO. 5

Job Name:

Knox County Emergency Operations

Project Number: 24-700-155-1

Date of Addendum: 6/24/2025

Licensed Architect State of Indiana Registration No. Click or tap here to enter text.

THIS ADDENDUM FORMS A PART OF THE CONTRACT DOCUMENTS AND IS ISSUED IN ACCORDANCE WITH THE INSTRUCTIONS TO BIDDERS. ACKNOWLEDGE RECEIPT OF THIS ADDENDUM BY SIGNING THE ADDENDUM ACKNOWLEDGEMENT SECTION OF YOUR PROPOSAL.

Drawings:

- 1. Revise Sheet: E700
 - **a.** Replace above listed drawing in its entirety with attached modified drawing.

END OF ADDENDUM 5



6/24/2025 4:13:26 PM

5

VOLTAGE DROP FOR 20A BRANCH CIRCUITS					
	MAXIMUM DISTANCE ALLOWED				
FEEDER SIZE TO USE	120V	277V			
F20	100 FEET	200 FEET			
F30	150 FEET	360 FEET			
F40-50	240 FEET	550 FEET			
F60	385 FEET	885 FEET			

DESIGNATION CONDUCTOR SIZE PER CONDUT CONDUT SIZE AND QUANTITY PX0X NEUTRAL ISCUATE GROUND BUILDING GROUND OR 12, 11, 12 34, 13 34, 14 34, 34, 34, 34, 34, 34, 34, 34, 34, 34,		FEEDER SIZING TABLE							
FXX PHASE & MEUTRAL ISOLATED GROUND BUIDING GROUND OR 2P, 16 34* 34*<	DESIGNATION	CONDUCTOR SIZE PER CONDUIT			CONDUIT SIZE AND QUANTITY				
F20 12 12 12 34"	FXXX	PHASE & NEUTRAL	ISOLATED GROUND	BUILDING GROUND	OR ^{1P, 1N, 1G} 2P, 1G	OR ^{2P, 1N, 1G} 3P, 1G	3P, 1N, 1G	3P, 3N, 1G	3P, 1N, 2G
F30 10 10 10 34" 34" 34" 34" 34" F40-F50 8 10 10 34" 34" 34" 1" 34" F60 6 10 10 34" 34" 1" 1.14" 1.12" 2" 2" 2" 2" 2" 2" 2" 2" 2" 2" 2" 2" 2"	F20	12	12	12	3/4"	3/4"	3/4"	3/4"	3/4"
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F1000 500 2/0 2/0 (3) 3" (3) 3" (3) 4" (3) 3-1/2" F1200 350 3/0 3/0 (4) 2-1/2" (4) 3" (4) 3-1/2" (4) 3" F1600 500 4/0 4/0 (5) 3" (5) 3" (5) 4" (5) 3-1/2" F2000 500 250 250 (6) 3" (6) 3-1/2" (6) 4" (6) 3-1/2" F2000 500 250 250 (6) 3" (6) 3-1/2" (6) 4" (6) 3-1/2" F2500 500 350 350 (7) 4" (7) 4" (7) 4" (7) 4" F3000 500 500 500 0 (8) 4" (8) 4" (8) 4" (8) 4" NOTES: 1. ALL CONDUIT PENETRATIONS THRU THE FLOOR SLAB SHALL BE MADE WITH CAUTION. CONTRACTOR SHALL COORDINATE ALL HOLE LOCATIONS WITH STRUCTURAL ENGINEER PRIOR TO CUTTING ANY NEW HOLES. NEW HOLES SHALL BE ADJUSTED AS REQUIRED TO MISS REBAR AS DETERMINED BY THE STRUCTURAL ENGINEER.	F900	350	2/0	2/0		(3) 2-1/2"	(3) 3"	(3) 3-1/2"	(3) 3"
F1200 350 3/0 3/0 (4) 2-1/2" (4) 3" (4) 3-1/2" (4) 3" F1600 500 4/0 4/0 (5) 3" (5) 3" (5) 4" (5) 3-1/2" F2000 500 250 250 (6) 3" (6) 3-1/2" (6) 4" (6) 3-1/2" F2000 500 250 250 (6) 3" (6) 3-1/2" (6) 4" (6) 3-1/2" F2500 500 350 350 (7) 4" (7) 4" (7) 4" (7) 4" F3000 500 500 500 0 (8) 4" (8) 4" (8) 4" (8) 4" F3000 500 500 500 0 (8) 4" (8) 4" (8) 4" (8) 4" NOTES: 1. ALL CONDUIT PENETRATIONS THRU THE FLOOR SLAB SHALL BE MADE WITH CAUTION. CONTRACTOR SHALL CONTRACTOR SHALL BE ADJUSTED AS REQUIRED TO MISS REBAR AS DETERMINED BY THE STRUCTURAL ENGINEER. 1. ALL CONDUIT PENETRATIONS ON THE DEPARTMENCE CONTRACTOR SHALL BE DESENSIBLE FOR 2 2 2 3 3 3 3 3 3	F1000	500	2/0	2/0		(3) 3"	(3) 3"	(3) 4"	(3) 3-1/2"
F1600 500 4/0 4/0 (5) 3" (5) 3" (5) 4" (5) 3-1/2" F2000 500 250 250 (6) 3" (6) 3-1/2" (6) 4" (6) 3-1/2" F2500 500 350 350 (7) 4" (7) 4" (7) 4" (7) 4" F3000 500 500 500 100 (8) 4" (8) 4" (8) 4" (8) 4" NOTES: 1. ALL CONDUIT PENETRATIONS THRU THE FLOOR SLAB SHALL BE MADE WITH CAUTION. CONTRACTOR SHALL COORDINATE ALL HOLE LOCATIONS WITH STRUCTURAL ENGINEER PRIOR TO CUTTING ANY NEW HOLES. NEW HOLES SHALL BE ADJUSTED AS REQUIRED TO MISS REBAR AS DETERMINED BY THE STRUCTURAL ENGINEER. 2 YOU TAGE DEDOD IN NOT SUOVAL ON THE DEDAMINGS. CONTRACTOR SHALL BE DESERDINGED FOR FOR FOR	F1200	350	3/0	3/0		(4) 2-1/2"	(4) 3"	(4) 3-1/2"	(4) 3"
F2000 500 250 250 (6) 3" (6) 3-1/2" (6) 4" (6) 3-1/2" F2500 500 350 350 (7) 4" (7) 4" (7) 4" (7) 4" (7) 4" F3000 500 500 500 500 (8) 4" (8) 4" (8) 4" (8) 4" NOTES: 1. ALL CONDUIT PENETRATIONS THRU THE FLOOR SLAB SHALL BE MADE WITH CAUTION. CONTRACTOR SHALL COORDINATE ALL HOLE LOCATIONS WITH STRUCTURAL ENGINEER PRIOR TO CUTTING ANY NEW HOLES. NEW HOLES SHALL BE ADJUSTED AS REQUIRED TO MISS REBAR AS DETERMINED BY THE STRUCTURAL ENGINEER. 2 YOL TAGE PEOP IN NOT SHOWN ON THE DEDAMINGS, CONTRACTOR SHALL BE DESPONSIBLE FOR	F1600	500	4/0	4/0		(5) 3"	(5) 3"	(5) 4"	(5) 3-1/2"
F2500 500 350 350 (7) 4" (7) 4" (7) 4" (7) 4" F3000 500 500 500 (8) 4" (8) 4" (8) 4" (8) 4" (8) 4" NOTES: 1. ALL CONDUIT PENETRATIONS THRU THE FLOOR SLAB SHALL BE MADE WITH CAUTION. CONTRACTOR SHALL COORDINATE ALL HOLE LOCATIONS WITH STRUCTURAL ENGINEER PRIOR TO CUTTING ANY NEW HOLES. NEW HOLES SHALL BE ADJUSTED AS REQUIRED TO MISS REBAR AS DETERMINED BY THE STRUCTURAL ENGINEER. 2 VOLTAGE DEOD IN NOT SHOWN ON THE DEAMINGS. CONTRACTOR SHALL BE DESPONSIBLE FOR	F2000	500	250	250		(6) 3"	(6) 3-1/2"	(6) 4"	(6) 3-1/2"
F3000 500 500 500 (8) 4" (8) 4" (8) 4" (8) 4" NOTES: 1. ALL CONDUIT PENETRATIONS THRU THE FLOOR SLAB SHALL BE MADE WITH CAUTION. CONTRACTOR SHALL COORDINATE ALL HOLE LOCATIONS WITH STRUCTURAL ENGINEER PRIOR TO CUTTING ANY NEW HOLES. NEW HOLES SHALL BE ADJUSTED AS REQUIRED TO MISS REBAR AS DETERMINED BY THE STRUCTURAL ENGINEER. 2. VOLTAGE DEOD IN NOT SUOVAL ON THE DEDAMINES. CONTRACTOR SHALL BE DESPONSIBLE FOR	F2500	500	350	350		(7) 4"	(7) 4"	(7) 4"	(7) 4"
NOTES: 1. ALL CONDUIT PENETRATIONS THRU THE FLOOR SLAB SHALL BE MADE WITH CAUTION. CONTRACTOR SHALL COORDINATE ALL HOLE LOCATIONS WITH STRUCTURAL ENGINEER PRIOR TO CUTTING ANY NEW HOLES. NEW HOLES SHALL BE ADJUSTED AS REQUIRED TO MISS REBAR AS DETERMINED BY THE STRUCTURAL ENGINEER. 2. VIOL TAGE DROP IN NOT SUOWN ON THE DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR	F3000	500	500	500		(8) 4"	(8) 4"	(8) 4"	(8) 4"
ADJUSTING ALL BRANCH CIRCUIT AND FEEDER SIZES TO COMPLY WITH STATE AND LOCAL VOLTAGE	NOTES: 1. A C N E 2. V A	OR SHALL HOLES. TURAL							

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- A. REFER TO SHEET E001 FOR ELECTRICAL SYMBOLS AND ADDITIONAL GENERAL
- B. REFER TO PANEL SCHEDULES ON E600-SERIES DRAWINGS FOR BREAKER
- C. ALL EQUIPMENT SHALL BE RATED TO WITHSTAND THE AVAILABLE FAULT CURRENT FROM THE UTILITY. EC SHALL COORDINATE THE AIC RATINGS OF ALL EQUIPMENT AND VERIFY THAT IT IS CORRECT PRIOR TO PURCHASE / INSTALLATION OF EQUIPMENT. SERIES RATINGS SHALL NOT BE ALLOWED FOR EQUIPMENT SERVING MOTOR LOADS, AND NOT ALLOWE EXCEPT AS PERMITTED IN THE PROJECT
- D. CONDUIT SIZES ARE MINIMUM GUIDELINES, AND MAY NOT COVER ALL INSTALLATIONS. IT IS ACCEPTABLE TO ADJUST CONDUIT SIZE BASED ON RACEWAY
- E. EACH PARALLEL RUN SHALL BE ELECTRICALLY SIMILAR, AND CONTAIN THE SAME NUMBER OF CONDUCTORS / CABLES. COMPLY WITH ALL NEC REQUIREMENTS FOR PARALLEL INSTALLATIONS. (NEC ART. 310.10(H))
- F. SEPARATELY DERIVED SYSTEMS SHALL HAVE A SUPPLY SIDE BONDING JUMPER INSTALLED PER NEC ART. 250.102(C), WHERE APPLICABLE. (NEC ART. 250.30(A)(2))
- G. EMERGENCY SYSTEMS SHALL BE ISOLATED AND MARKED AS REQUIRED BY CODE.
- H. WHERE GROUND FAULT PROTECTION AND/OR ARC ENERGY REDUCTION IS REQUIRED, FUNCTIONAL PERFORMANCE VERIFICATION TESTING SHALL BE PERFORMED AFTER THE EQUIPMENT IS INSTALLED, PRIOR TO BEING ENERGIZED BY THE SOURCE. UTILIZING A "PUSH TO TRIP" FEATURE IS NOT ALLOWED. TESTING SHALL BE PERFORMED UTILIZING A PRIMARY CURRENT INJECTION TEST SET AND PER THE MANUFACTURER'S INSTRUCTIONS. THE TESTING RESULTS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD AND BE MADE AVAILABLE UPON REQUEST TO THE AHJ. IT IS THE RESPONSIBILITY OF THE EC TO DETERMINE IF THIRD PARTY TESTING IS REQUIRED BY THE AHJ. (NEC ART. 230.95, ART. 240.67, &

A. ELECTRICAL POWER SYSTEM SHALL BE PROVIDED AS A CRITICAL OPERATIONS POWER

	PLAN NOTES				
#	NOTE				
1	PROVIDE WATER STOP SEALANT FOR ALL CONDUITS, INCLUDING SPARES, AT THE EXIT POINT FROM THE GENERATOR AND DOCKING STATION TO PREVENT WATER FROM ENTERING THE CONDUITS.				
2	PROVIDE GENERATOR START AND CONTROL WIRING FROM EACH TRANSFER SWITCH TO GENERATOR AND DOCKING STATION. ROUTE ALL WIRING IN CONDUIT. QUANTITY AND SIZE OF WIRING AND CONDUIT AS RECOMMENDED BY MANUFACTURER.				
3	PROVIDE WIRING FROM GENERATOR AND DOCKING STATION / CONNECTION CABINET TO ANNUNCIATOR LOCATION. ROUTE ALL WIRING IN CONDUIT. QUANTITY AND SIZE OF WIRING AND CONDUIT AS RECOMMENDED BY MANUFACTURER.				
4	PROVIDE GENERATOR DOCKING STATION / CONNECTION CABINET ADJACENT TO GENERATOR FOR CONNECTION MEANS OF PORTABLE GENERATOR. DOCKING STATION SHALL INCLUDE INTEGRAL BREAKERS AS INDICATED, AND ACCESSORY RECEPTACLES FOR BLOCK HEATER AND BATTERY CHARGER. COORDINATE EXACT LOCATION WITH GENERATOR EQUIPMENT. MAINTAIN ALL REQUIRED CLEARANCES AND PROVIDE ACCORDINGLY.				
5	PROVIDE INTEGRAL BREAKER WITH KIRK KEY INTERLOCK BETWEEN GENERATOR BREAKER AND BREAKER FOR PORTABLE GENERATOR CONNECTION.				
6	CONNECT COMPLETE GENERATOR LOAD CENTER PANEL FOR GENERATOR ACCESSORIES. COORDINATE EXACT LOCATION WITH MANUFACTURER PRIOR TO INSTALLATION. COORDINATE EXACT SIZE WITH GENERATOR MANUFACTURER AND PROVIDE FEEDER BREAKER AND FEEDER SIZE AS REQUIRED.				
7	TRANSFER SWITCH SHALL BE CLOSED TRANSITION WITH BYPASS ISOLATION AND SOLID NEUTRALS.				
8	UTILITY TRANSFORMER, REFER TO ELECTRICAL SITE PLAN FOR ADDITIONAL INFORMATION.				
9	PROVIDE METER AND CT CABINET AS REQUIRED BY UTILITY.				
10	GENERATOR SHALL BE PROVIDED WITH AN UPSIZED 300KW ALTERNATOR				

