
ADDENDUM NO. 4 TO BID DOCUMENTS

Date: June 18, 2025
Project: Utley Creek WRF - Lab & Operators Building
Owner: Town of Holly Springs
Engineer: Hazen and Sawyer

To All Bidders:

Contractors submitting Proposals for the above-named Project shall take note of the following changes, additions, deletions, clarifications, etc., in the Bid Documents, which shall become part of and have precedence over anything contrarily shown or described in the Bid Documents, and all such shall be taken into consideration and be included in the Contractor's Bid Proposal.

All other general items, conditions, drawings, and specifications shall remain the same. Please acknowledge the receipt of Addendum No. 4 with the Bid Form.

Refer to the Attached Sheets.

The return receipt requested with the communication will be deemed evidence that the bidder has received this Addendum and has followed the instructions outlined herein. Please sign, date, clearly print company name, and email this sheet back to Hazen and Sawyer at tohs_ucwrf_labopsbldg@hazenandsawyer.com.

Company Name

Acknowledgement of Receipt

Date



Michelle A. Mayes, P.E.
HAZEN AND SAWYER

Utle Creek WRF - Lab & Operators Building Project

Addendum No. 4

GENERAL:

- Response to Bidder Questions:
 1. Please clarify the meaning of *Time for Performance*?
 - a. **Response:** Time of Performance refers to the number of days stated in Section 00500 - Agreement to achieve intermediate milestones, or Substantial Completion and complete the Work so that it is ready for final payment as evidenced by Engineer's written recommendation of final payment.
 2. Will other projects and/or phases begin on the same construction Site as this project?
 - a. **Response:** The Lab and Operations Building project is Phase 1 of the UCWRF Expansion project. The Treatment Facility Upgrades are Phase 2 and is anticipated to bid in late fall 2025. Construction for Phase 2 is expected to start in early spring 2026. The scope of work for Phase 2 will focus on areas to the south and east of the Lab and Operations building. Construction for the two phases of work may overlap during the last nine months of the Lab and Operations Building project.
 3. Can additional time be added to this scope of work?
 - a. **Response:** The Lab and Operations Building (Phase 1) is critical path for the overall UCWRF Expansion Project. On time delivery of Phase 1 is important to the overall success of the project. Refer to Section 00500 – Agreement Article 10 paragraph 10.05 and Article 12 paragraphs 12.02 and 12.03 for requirements related to adjustment to the Contract Time.
 4. Can mulch be done and left on site?
 - a. **Response:** Section 31 10 00 – Clearing, Grubbing, and Site Preparation, paragraph 2.04 states all debris from the clearing and grubbing work shall be disposed of by the Contractor as part of the work.
 5. In Spec section 12.03 it states Extensions granted to the contract times shall reflect the actual delay likely to be caused to the date of Substantial Completion, if a delay occurs

during the 270 days of the Grading, Duck Bank & Temp Roads scope will days be days to this time line or will all extensions be added to Sub. Completion?

- a. **Response:** Section 00500 – Agreement, Article 12 paragraphs 12.02 and 12.03 state Contract Times, including intermediate milestones, may be adjusted by Change Order or by Written Amendment. Additional time may be added to the intermediate milestone and Substantial Completion if it is determined that the delay of the intermediate milestone will cause a delay to Substantial Completion.
6. Please clarify project budget discussed at pre-bid meeting. Is the \$13M-\$15M allocated for Phase 1 only?
 - a. **Response:** The Town’s construction budget for the UCWRF - Lab and Operations Building Project (Phase 1) is between \$13M and \$15M.
 7. Can any products be added to the specifications?
 - a. Equals and substitutions will be reviewed in accordance with specification section 00700 paragraph 6.05. Substitutes and "Or Equals". Products of equal or superior quality will be considered.

SPECIFICATIONS:

SECTION 23 09 02 – HVAC AUTOMATIC TEMPERATURE CONTROLS

Page 23 09 02 – 31 (Air Handler for VAV Boxes) Add the following:

17. Upon receiving a discrete signal from the Building Electrical Automatic Transfer Switch (ATS) indicating a loss in primary power and transfer to generator power the Building Management System shall signal the Packaged Rooftop unit AHU0800-1 (AHU-800-2 to stay operational) to override operational mode and shutdown fan, cooling, heating and ventilation operation. All VAV boxes served by the Packaged Rooftop unit shall also cease any control and reheat functions. The Packaged Rooftop Unit controls circuit shall remain active.

Upon receiving a discrete signal from the Building Electrical Automatic Transfer Switch (ATS) indicating a return of primary power the Building Management System shall signal the Packaged Rooftop unit AHU-800-1 to return to operational mode and activate fan, cooling, heating and ventilation

operation. All VAV boxes served by the Packaged Rooftop unit shall also return to normal control and reheat functions.

Page 23 09 02 – 32 (VAV Box) Add the following:

13. Upon receiving a discrete signal from the Building Electrical Automatic Transfer Switch (ATS) indicating a loss in primary power and transfer to generator power the Building Management System shall signal the Packaged Rooftop unit AHU0800-1 (AHU-800-2 to stay operational) to override operational mode and shutdown fan, cooling, heating and ventilation operation. All VAV boxes served by the Packaged Rooftop unit shall also cease any control and reheat functions.

Upon receiving a discrete signal from the Building Electrical Automatic Transfer Switch (ATS) indicating a return of primary power the Building Management System shall signal the Packaged Rooftop unit AHU-800-1 to return to operational mode and activate fan, cooling, heating and ventilation operation. All VAV boxes served by the Packaged Rooftop unit shall also return to normal control and reheat functions.

Page 23 09 02 – 34 (Air Handler - Laboratory) Add the following:

12. Upon receiving a discrete signal from the Building Electrical Automatic Transfer Switch (ATS) indicating a loss in primary power and transfer to generator power the Building Management System shall signal the Packaged Rooftop unit AHU0800-3 (AHU-800-2 to stay operational) to override operational mode and shutdown fan, cooling, heating and ventilation operation. The Packaged Rooftop Unit controls circuit shall remain active.

Upon receiving a discrete signal from the Building Electrical Automatic Transfer Switch (ATS) indicating a return of primary power the Building Management System shall signal the Packaged Rooftop unit AHU-800-3 to return to operational mode and activate fan, cooling, heating and ventilation operation.

DRAWINGS:

A002 Signage Detail H: Revise 'LAB' ENTRANCE to 'OPERATIONS' ENTRANCE.

A002 Signage Detail H, Add the following Note:

“COORDINATE 911 SIGNAGE LOCATION WITH AUTHORITY HAVING JURISDICTION DURING CONSTRUCTION.”

A005 Replace Door Schedule with table provided in **Attachment #1**.

A819 Add the following Note:

“3. LAB DISHWASHERS AND INCUBATOR ARE INCLUDED IN LAB ALLOWANCE.”

Replace EQ-5 and EQ-6 in the Lab Equipment Schedule as follows:

EQ-5	DISHWASHER	Thermo Scientific	51029321
EQ-6	Existing Full Height Incubator	ThermoFisher	---

A820 Add the following Note:

“3. LAB DISHWASHERS AND INCUBATOR ARE INCLUDED IN LAB ALLOWANCE”

Replace EQ-5 and EQ-6 in the Lab Equipment Schedule as follows:

EQ-5	DISHWASHER	Thermo Scientific	51029321
EQ-6	Existing Full Height Incubator	ThermoFisher	---

A824 Enlarged Breakroom Plan, add the following note:

“NOTE: EXISTING AED AND FIRST AID KIT TO BE RELOCATED BY THE TOWN TO NEW BREAKROOM.”

A828 Add the following Note:

“1. EXISTING LAB STOOLS AND CHAIRS TO BE RELOCATED BY THE TOWN TO NEW LAB.”

E003 Reference **Attachment #2** for handhole tags on sheet E003.

E805 The following note shall be added to sheet E805:

“11. EMERGENCY LIGHTING CIRCUITS SHALL BE INSTALLED IN SEPARATE DEDICATED CONDUITS FROM NORMAL LIGHTING AND RECEPTACLE CIRCUITS.”

- E806 The following note shall be added to sheet E806:
- “11. EMERGENCY LIGHTING CIRCUITS SHALL BE INSTALLED IN SEPARATE DEDICATED CONDUITS FROM NORMAL LIGHTING AND RECEPTACLE CIRCUITS.”
- E809 Reference **Attachment #3** for sheet E809: Addition of Temporary Heavy Duty Disconnect Switch. The temporary disconnect switch shall be installed immediately adjacent to the temporary utility transformer to establish the point of common coupling upstream of HH-001.
- E810 Reference updates to Panel Schedules on Sheet E810 in **Attachment #4**.
- E811 Reference updates to Panel Schedule for LP-UPS on sheet E811 in **Attachment #5**.

ATTACHMENTS:

- Attachment #1: A005- Revised Door Schedule
- Attachment #2: E003- Handhole tags
- Attachment #3: E809- Addition of Temporary Heavy Duty Disconnect Switch
- Attachment #4: E810- Updated Panel Schedules
- Attachment #5: E811- Updated Panel Schedule LP-UPS

DOOR SCHEDULE

NO.	FRAME		DOOR					DOOR THICKNESS	DETAILS			FIRE RATING	GLAZING		FINISH	SECURITY WIRING	HARDWARE		THRESHOLD	REMARKS
	TYPE	MATL	TYPE	MATL	ACTIVE WIDTH	INACTIVE WIDTH	HEIGHT		HEAD	JAMB	SILL		TYPE	SIZE			NO	NOTE		
801	SF-6	AL	FG&FG	AL	6'-0"		7'-8"		SF-6/A007	SF-6/A007	SF-6/A007		IG	24"x70"	PT		1	PANIC	--	SEE SHEET A009
802	F-1	HM	FG&FG	WD	3'-0"	3'-0"	7'-2"	1 3/4"	2/A006	2/A006	2/A006		--	24"x70"	PT		7	--	--	NOTE 6
803A	F-1	HM	BF	WD	5'-6"		7'-0"	1 3/4"	4/A006	4/A006	4/A006		--	--	MFR		MFR	--	--	NOTE 9, HARDWARE PER DOOR MFR
803B	F-1	HM	BF	WD	5'-6"		7'-0"	1 3/4"	4/A006	4/A006	4/A006		--	--	MFR		MFR	--	--	NOTE 9, HARDWARE PER DOOR MFR
804	F-3	HM	FG	WD	3'-0"	0'-0"	7'-2"	1 3/4"	2/A006	2/A006	2/A006		--	24"x70"	MFR		8	--	--	NOTE 6
805	F-3	HM	FG	WD	3'-0"	0'-0"	7'-2"	1 3/4"	2/A006	2/A006	2/A006		--	24"x70"	MFR		8	--	--	NOTE 6
806	F-1	HM	FG	WD	3'-0"	0'-0"	7'-2"	1 3/4"	2/A006	2/A006	2/A006		IG	24"x70"	PT		8	--	AL	NOTE 6
807	F-3	HM	FG	WD	3'-0"	0'-0"	7'-2"	1 3/4"	2/A006	2/A006	2/A006		--	24"x70"	MFR		8	--	--	NOTE 6
808	F-3	HM	FG	WD	3'-0"	0'-0"	7'-2"	1 3/4"	2/A006	2/A006	2/A006		--	24"x70"	MFR		8	--	--	NOTE 6
810	SF-10	AL	FG	AL	3'-0"		7'-10"		SF-10/A007	SF-10/A007	SF-10/A007		IG	24"x70"	PT	YES	2	--	--	SEE SHEET A009
811	F-3	HM	FG	WD	3'-0"	0'-0"	7'-2"	1 3/4"	2/A008	2/A008	2/A008		--	24"x70"	MFR		3	--	--	NOTE 6
811A	SF-1	AL	FG	AL	3'-0"		7'-8"		SF-1/A007	SF-1/A007	SF-1/A007		--	24"x70"	PT	YES	2	--	--	SEE SHEET A009
812	F-1	HM	F&F	HM	3'-0"	3'-0"	7'-10"	1 3/4"	1/A006	1/A006	1/A006		--	--	PT		10	--	AL	
813	F-1	HM	F	WD	3'-0"	0'-0"	7'-2"	1 3/4"	2/A006	2/A006	2/A006		--	--	MFR		4	--	--	NOTE 6
814	F-3	HM	FG	WD	3'-0"	0'-0"	7'-2"	1 3/4"	2/A006	2/A006	2/A006		--	24"x70"	MFR		3	--	--	NOTE 6
814A	SF-3	AL	FG	AL	3'-0"		7'-10"		SF-3/A007	SF-3/A007	SF-3/A007		IG	24"x70"	PT	YES	2	--	--	SEE SHEET A009
815	F-1	HM	F	WD	3'-0"	0'-0"	7'-2"	1 3/4"	2/A006	2/A006	2/A006		--	--	MFR		4	--	--	NOTE 6
816	F-1	HM	--	--	0'-0"		0'-0"		5/A006	5/A006	5/A006		--	--	PT		-	--	AL	CASED OPENING
817	F-1	HM	F	WD	3'-0"	0'-0"	7'-2"	1 3/4"	2/A006	2/A006	2/A006		--	--	PT		8	--	--	NOTE 6
818	F-3	AL	FG	AL	3'-0"	0'-0"	7'-2"	1 3/4"	3/A006	3/A006	3/A006		--	24"x70"	MFR		8	--	--	NOTE 6
818A	SF-10	AL	FG	AL	3'-0"		7'-10"		SF-10/A007	SF-10/A007	SF-10/A007		IG	24"x70"	PT	YES	9	PANIC	--	SEE SHEET A009
819	SF-5	AL	FG&FG	AL	6'-4"		7'-10"		SF-5/A007	SF-5/A007	SF-5/A007		IG	24"x70"	MFR	YES	1	PANIC	--	SEE SHEET A009
819A	F-1	AL	FG&FG	AL	3'-0"	3'-0"	7'-2"	1 3/4"	3/A006	3/A006	3/A006		--	--	MFR		6	--	--	
821	F-1	HM	F	WD	3'-0"	0'-0"	7'-2"	1 3/4"	2/A006	2/A006	2/A006		--	--	MFR		4	--	--	NOTE 6
822	F-3	HM	FG	WD	3'-0"	0'-0"	7'-2"	1 3/4"	2/A006	2/A006	2/A006		--	24"x70"	MFR		8	--	--	NOTE 6
822A	F-1	HM	BF	WD	4'-6"		7'-0"	1 3/4"	4/A006	4/A006	4/A006		--	MFR	MFR		MFR	--	--	NOTE 9, HARDWARE PER DOOR MFR
823	SF-1	AL	FG	AL	3'-0"		7'-8"		SF-1/A007	SF-1/A007	SF-1/A007		IG	24"x70"	PT	YES	2	--	AL	SEE SHEET A009
824	F-1	HM	F	WD	3'-0"	0'-0"	7'-2"	1 3/4"	2/A006	2/A006	2/A006		--	--	MFR		4	--	--	NOTE 6
825	F-1	HM	F	HM	3'-0"	0'-0"	7'-2"	1 3/4"	2/A006	2/A006	2/A006		--	--	PT		4	--	--	
825A	SF-10	AL	FG	AL	3'-0"		7'-10"		SF-10/A007	SF-10/A007	SF-10/A007		IG	24"x70"	MFR	YES	9	PANIC	--	SEE SHEET A009
826	F-1	HM	F	WD	3'-0"	0'-0"	7'-2"	1 3/4"	2/A006	2/A006	2/A006		--	--	MFR		4	--	--	NOTE 6
827	F-1	HM	F	WD	3'-0"	0'-0"	7'-2"	1 3/4"	2/A006	2/A006	2/A006		--	--	MFR		5	--	--	NOTE 6
828	F-1	HM	F	WD	3'-0"	0'-0"	7'-2"	1 3/4"	2/A006	2/A006	2/A006		--	--	MFR		5	--	--	NOTE 6
829	F-1	HM	F	WD	3'-0"	0'-0"	7'-2"	1 3/4"	2/A006	2/A006	2/A006		--	--	MFR		6	--	--	NOTE 6
830	F-1	HM	F	WD	3'-0"	0'-0"	7'-2"	1 3/4"	2/A006	2/A006	2/A006		--	--	MFR		6	--	--	NOTE 6
831	F-1	HM	F	WD	3'-0"	0'-0"	7'-2"	1 3/4"	2/A006	2/A006	2/A006		--	--	MFR		5	--	--	NOTE 6
832	F-1	HM	F	WD	3'-0"	0'-0"	7'-2"	1 3/4"	2/A006	2/A006	2/A006		--	--	MFR		5	--	--	NOTE 6

DOOR LEGEND

AL	ALUMINUM	PT	PAINT
HM	HOLLOW METAL	SF	STOREFRONT
IG	INSULATING GLAZING		
MF	MANUFACTURER		

DOOR SCHEDULE NOTES:

1. PROVIDE BLINDS IN SIDELITE OF FRAME F-2.
2. GLASS SHALL BE SAFETY TYPE IN DOORS, SIDELITES, AND STOREFRONT.
3. SEE SHEET A007 FOR STOREFRONT ELEVATIONS.
4. THRESHOLDS TO BE CENTERED BELOW INTERIOR DOORS.
5. COORDINATE SECURITY DEVICES AND WIRING WITH SECURITY INSTALLER, SEE A 002.
6. PAINT FRAME OF WOOD DOOR. WOOD DOORS SHALL HAVE FACTORY FINISH.
7. COORDINATE FIRE ALARM WIRING WITH STOREFRONT SYSTEM
8. ALL GLAZING ADJACENT TO DOORS SHALL BE TEMPERED SAFETY GLASS
9. PAINT FRAME OF BIFOLD DOORS. DOORS SHALL HAVE A FACTORY FINISH. HARDWARE PER BIFOLD DOOR MANUFACTURER

REFER TO CONTRACT DRAWING NUMBER A005

HAZEN JOB NUMBER 31407-006

CONTRACT NUMBER --

TOWN OF HOLLY SPRINGS
HOLLY SPRINGS, NORTH CAROLINA

DATE
5/30/2025

ADDENDUM NO.
4

SHEET 1 OF 1

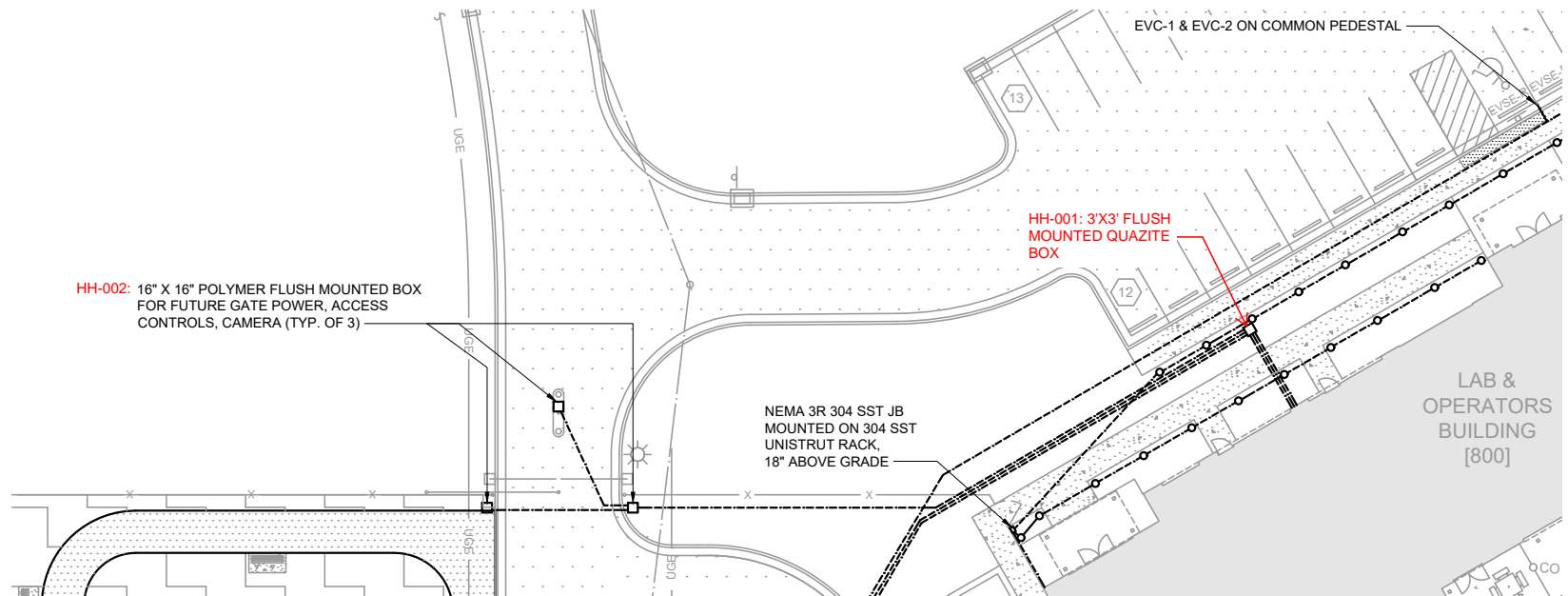
CONTRACT NUMBER --

UTLEY CREEK WRF
LAB & OPERATORS BUILDING

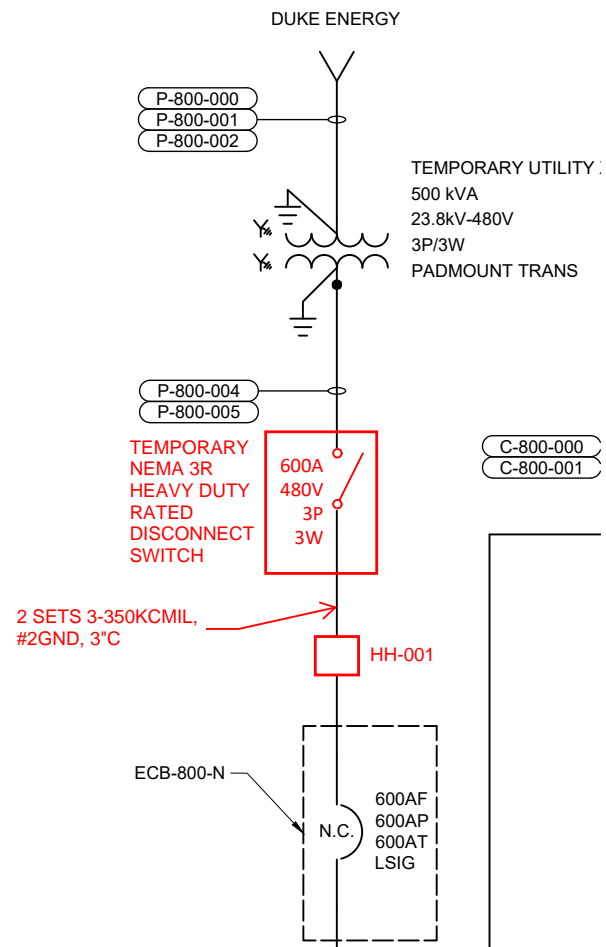
BY
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ATTACHMENT NO.
1

BY
DW



ADDENDUM NO.	DATE	TOWN OF HOLLY SPRINGS HOLLY SPRINGS, NORTH CAROLINA	HAZEN JOB NUMBER	REFER TO CONTRACT DRAWING NUMBER
ATTACHMENT NO.	BY		31407-006	
		UTLEY CREEK WRF LAB AND OPERATORS BUILDING	CONTRACT NUMBER	SHEET OF
			--	



ADDENDUM NO.	DATE	TOWN OF HOLLY SPRINGS HOLLY SPRINGS, NORTH CAROLINA	HAZEN JOB NUMBER	REFER TO CONTRACT DRAWING NUMBER
ATTACHMENT NO.	BY		31407-006	
		UTLEY CREEK WRF LAB AND OPERATORS BUILDING	CONTRACT NUMBER	SHEET OF
			--	

480V, 3P, 3W (WYE) 400A BUS 35kA (MINIMUM)				PP-800-1 MAIN BREAKER W/ ETU (LSIG) 400AF/400AP/400AT, 3P										TYPE: NEMA 1 MOUNT: SURFACE			
MODS	DESCRIPTION	CONDUIT & WIRE	TRIP	POLE	CKT No.	VOLT-AMPERES			VOLT-AMPERES			CKT No.	POLE	TRIP	CONDUIT & WIRE	DESCRIPTION	MODS
						A	B	C	A	B	C						
-	ROOFTOP AC UNIT - AHU-800-1	A	100	3	1	16,350	16,350		28,923			2			D	TX-LP-800	-
-	ROOFTOP AC UNIT - AHU-800-2	A	100	3	3		16,350			28,254		4	3	175			
-	ROOFTOP AC UNIT - AHU-800-3	A	100	3	5			16,350		24,141		6					
-					7	9,145						8					
-					9		9,145					10	3	60	E	SPD	-
-					11			9,145				12					
-					13	14,965			3,250			14	2	20	C	VAV-800-7	LFD
-					15		14,965			3,250		16					
-					17			14,965			1,750	18	2	20	C	VAV-800-8	LFD
LFD	VAV-800-1	C	20	2	19	1,000			1,750		20	2	20	C	VAV-800-9	LFD	
LFD	VAV-800-2	C	20	2	21		1,000			2,000	22	2	20	C	VAV-800-10	LFD	
LFD	VAV-800-3	C	20	2	23			1,000		2,000	24	2	20	C	VAV-800-11	LFD	
LFD	VAV-800-4	C	20	2	25	1,000			1,750		26	2	20	C	VAV-800-12	LFD	
LFD	VAV-800-5	C	20	2	27		1,250			1,750	28	2	20	C	VAV-800-11	LFD	
LFD	VAV-800-6	C	20	2	29			1,250		500	30	2	20	C	VAV-800-11	LFD	
-					31	1,000			500		32						
-					33		1,000		750		34	2	20	C	VAV-800-12	LFD	
-					35			1,000		750	36	2	20	C	VAV-800-12	LFD	
-					37						38						
-					39		1,750				40	3	175	-	SPARE	-	
-					41			1,750			42						
TOTAL						44,460	45,460	45,460	51,005	51,086	44,223	TOTAL					
PHASE TOTAL (VA)									TOTAL LOAD (VA)								
PHASE TOTAL (A)									TOTAL LOAD (A)								

MODIFICATION (MODS) LEGEND:
 GFCI - GROUND FAULT CIRCUIT INTERRUPTER (5mA)
 EPD - EQUIPMENT PROTECTION DEVICE (30mA GFCI)
 LOD - LOCK-ON DEVICE
 LFD - LOCK-OFF DEVICE
 ETU - ELECTRONIC TRIP UNIT

NOTES/ACCESSORIES:
 200KA SPD
 EXTERNALLY MOUNTED
 CONDUIT & WIRE (WHERE NOTED ABOVE)
 A: 3#2, #8GND, 1-1/2"C
 B: 2#12, #12GND, 3/4"C VIA DISCONNECT
 C: 2#12, #12GND, 3/4"C
 D: 3#3/0, #6GND, 2"C
 E: 3#6, #10GND, 1"C

480V, 3P, 3W (WYE) 400A BUS 35kA (MINIMUM)				PP-800-2 MAIN LUGS ONLY										TYPE: NEMA 1 MOUNT: SURFACE			
MODS	DESCRIPTION	CONDUIT & WIRE	TRIP	POLE	CKT No.	VOLT-AMPERES			VOLT-AMPERES			CKT No.	POLE	TRIP	CONDUIT & WIRE	DESCRIPTION	MODS
						A	B	C	A	B	C						
LFD	VAV-800-13	C	20	2	1	1,000			1,500			2			B	TEPID WATER HEATER (WH-800-1)	-
LFD	VAV-800-14	C	20	2	3		1,000			1,500		4	3	20			
LFD	VAV-800-15	C	20	2	5			1,000		1,500		6					
-	SPARE	-	20	2	7	1,000			8,000		8						
-	SPARE	-	20	2	9		1,250			8,000		10	3	50	E	WATER HEATER (WH-800-2)	-
-	SPARE	-	20	2	11			1,250		8,000		12					
-	SPARE	-	20	2	13				1,666		14				B	BOD FUME HOOD NO.1	-
-	SPARE	-	20	2	15				1,666		16	3	20				
-	SPARE	-	20	3	17					1,666	18						
-	SPARE	-	20	3	19				1,666		20	3	20	B	BOD FUME HOOD NO.2	-	
-	SPARE	-	20	3	21					1,666	22	3	20				
-	SPARE	-	20	3	23					1,666	24						
-	SPARE	-	20	3	25						26						
-	SPARE	-	20	3	27						28	3	20	-	SPARE	-	
-	SPARE	-	20	3	29						30						
-	SPARE	-	20	3	31						32						
-	SPARE	-	20	3	33						34	3	20	-	SPARE	-	
-	SPARE	-	20	3	35						36						
-	SPARE	-	20	3	37						38						
-	SPARE	-	20	3	39						40	3	20	-	SPARE	-	
-	SPARE	-	20	3	41						42						
TOTAL						2,000	2,250	2,250	12,832	12,832	12,832	TOTAL					
PHASE TOTAL (VA)									TOTAL LOAD (VA)								
PHASE TOTAL (A)									TOTAL LOAD (A)								

MODIFICATION (MODS) LEGEND:
 GFCI - GROUND FAULT CIRCUIT INTERRUPTER (5mA)
 EPD - EQUIPMENT PROTECTION DEVICE (30mA GFCI)
 LOD - LOCK-ON DEVICE
 LFD - LOCK-OFF DEVICE
 ETU - ELECTRONIC TRIP UNIT

CONDUIT & WIRE (WHERE NOTED ABOVE)
 A: 3#2, #8GND, 1-1/2"C
 B: 3#12, #12GND, 3/4"C VIA DISCONNECT
 C: 2#12, #12GND, 3/4"C
 D: 3#3/0, #6GND, 2"C
 E: 3#6, #10GND, 1"C VIA DISCONNECT

208/120V, 3P, 4W 400A BUS 22kA (MINIMUM)				LP-800-1 MAIN BREAKER 400AF/400AT, 3P										TYPE: NEMA 1 MOUNT: SURFACE			
MODS	DESCRIPTION	CONDUIT & WIRE	TRIP	POLE	CKT No.	VOLT-AMPERES			VOLT-AMPERES			CKT No.	POLE	TRIP	CONDUIT & WIRE	DESCRIPTION	MODS
						A	B	C	A	B	C						
-	ENTRY / ADMIN AREA REC	A	20	1	1	540			28,923	28,254	24,141	2			3#6, #10GND, 1"C	SPD	-
-	ENTRY / ADMIN AREA REC	A	20	1	3			540				4					
-	CONF RM REC	A	20	1	5			1,800				6					
-	CONF RM COUNTER REC	A	20	1	7	1,440						8	1	20	A	FACP-800 / CELLULAR DIALER	LOD
-	OFF 904 / 905 REC	A	20	1	9			1,260				10					
-	OFF 906 REC	A	20	1	11			720				12	2	20	A	INV-800	-
-	OFFICE 907 / 908 REC	A	20	1	13	1,260						14	1	20	A	BOLLARD LIGHTS, CART PATH	-
GFCI	COVERED PATIO REC	A	20	1	15			1,800				16					
GFCI	AHU REC	A	20	1	17			540				18	2	20	A	ACC-800-1	-
GFCI	UTILITY ROOM REC	A	20	1	19	720						20					
-	BOLLARD LIGHTS, FRONT	A	20	1	21			1,085				22	2	20	A	ACC-800-2	-
-	BOLLARD LIGHTS, REAR	A	20	1	23			455				24					
-	EF-800-1	A	20	1	25	950						26	2	20	A	ACC-800-3	-
-	EF-800-2	A	20	1	27			950				28					
-	EF-800-3	A	20	1	29			950				30	1	20	A	EUH-800-1	-
-	EF-800-4	A	20	1	31	950						32					
-	EF-800-5	A	20	1	33			950				34					
-	EF-800-6	A	20	1	35			950				36	1	20	A	EUH-800-3	-
-	IRRIGATION PEDESTAL	A	20	1	37	300						38	1	20	A	EUH-800-4	-
-	BMS PANEL	A	20	1	39			300				40	1	20	-	SPARE	-
-	SPACE	-	-	-	41							42	1	20	-	SPARE	-
-	SPACE	-	-	-	43							44	1	-	-	SPACE	-
-	SPACE	-	-	-	45							46	1	-	-	SPACE	-
-	SPACE	-	-	-	47							48	1	-	-	SPACE	-
-	SPACE	-	-	-	49							50	1	-	-	SPACE	-
-	SPACE	-	-	-	51							52	1	-	-	SPACE	-
-	SPACE	-	-	-	53							54	1	-	-	SPACE	-
TOTAL						6,160	6,885	5,415	22,763	21,369	18,726	TOTAL					
PHASE TOTAL (VA)									TOTAL LOAD (VA)								
PHASE TOTAL (A)									TOTAL LOAD (A)								

MODIFICATION (MODS) LEGEND:
 GFCI - GROUND FAULT CIRCUIT INTERRUPTER (5mA)
 EPD - EQUIPMENT PROTECTION DEVICE (30mA GFCI)
 LOD - LOCK-ON DEVICE
 LFD - LOCK-OFF DEVICE
 ETU - ELECTRONIC TRIP UNIT

NOTES/ACCESSORIES:
 100KA SPD
 EXTERNALLY MOUNTED
 LTG/RECP CIRCUITS (WHERE NOTED ABOVE)
 A: 2#12, #12GND, 3/4"C
 B: 3#12, #12GND, 3/4"C
 C: 2#10, #10GND, 3/4"C

208/120V, 3P, 4W 400A BUS 22kA (MINIMUM)				LP-800-2 MAIN LUGS ONLY 400AF/400AT, 3P										TYPE: NEMA 1 MOUNT: SURFACE			
MODS	DESCRIPTION	CONDUIT & WIRE	TRIP	POLE	CKT No.	VOLT-AMPERES			VOLT-AMPERES			CKT No.	POLE	TRIP	CONDUIT & WIRE	DESCRIPTION	MODS
						A	B	C	A	B	C						
-	BREAK RM REF	A	20	1	1	360			1,800			2	1	20	A	BOD COUNTER TP REC	GFCI
-	BREAK RM DW	A	20	1	3			1,200				4	1	20	A	BOD COUNTER TP REC	GFCI
-	BREAK RM RANGE	2#6, #10GND, 3/4"C	50	2	5			2,000				6	1	20	A	BOD COUNTER TP REC	GFCI
-	BREAK RM ICE MAKER	A	20	1	9			1,200				8	1	20	A	BOD COUNTER TP REC	GFCI
GFCI	BREAK RM COUNTER TP REC	A	20	1	11			1,080				10	1	20	A	BOD ICE MAKER	-
GFCI	BREAK RM COUNTER TP REC	A	20	1	13	360						12	1	20	A	DROP OFF REC	-
-	BREAK RM GP REC																

208/120V, 3P, 4W 100A BUS 10kA (MINIMUM)		LP-UPS MAIN BREAKER 100AF/60AT, 3P			TYPE: NEMA 1 MOUNT: SURFACE									
MODS	DESCRIPTION	CONDUIT & WIRE	TRIP	POLE	CKT No.	VOLT-AMPERES			CKT No.	POLE	TRIP	CONDUIT & WIRE	DESCRIPTION	MODS
						A	B	C						
-	SERVER RACK REC	A	20	1	1	1,080			2	1	20	A	CONTROL RM DESKTOP REC	-
-	SERVER RACK REC	A	20	1	3		1,080		4	1	20	A	CONTROL RM DESKTOP REC	-
-	SERVER RACK REC	A	20	1	5			1,080	6	1	20	A	CONTROL RM DESKTOP REC	-
-	BACKBOARD REC	A	20	1	7	360			8	1	20	A	MONITOR REC	-
-	CONTROL RM DESKTOP REC	A	20	1	9		360		10	1	20	A	MONITOR REC	-
-	MONITOR REC	A	20	1	11			180	12	1	20	A	MONITOR REC	-
-	FUTURE PLC-11	A	20	1	13	500			14	1	20	-	SPARE	-
-	SPARE	-	20	1	15				16	1	20	-	SPARE	-
-	SPARE	-	20	1	17				18	1	20	-	SPARE	-

MODIFICATION (MODS) LEGEND:		TOTAL			540			540			540			TOTAL			NOTES/ACCESSORIES:		
GFCI - GROUND FAULT CIRCUIT INTERRUPTER (5mA)		PHASE TOTAL (VA)			TOTAL LOAD (VA)												LTG/RECP CIRCUITS (WHERE NOTED ABOVE): A: 2#12, #12GND, 3/4"C B: 3#12, #12GND, 3/4"C C: 2#10, #10GND, 3/4"C		
EPD - EQUIPMENT PROTECTION DEVICE (30mA GFCI)		2,480			1,980			1,800			6,260								
LOD - LOCK-ON DEVICE		PHASE TOTAL (A)			TOTAL LOAD (A)														
LFD - LOCK-OFF DEVICE		21			17			15			17								
ETU - ELECTRONIC TRIP UNIT																			

REFER TO CONTRACT DRAWING NUMBER

HAZEN JOB NUMBER 31407-006

CONTRACT NUMBER --

TOWN OF HOLLY SPRINGS
HOLLY SPRINGS, NORTH CAROLINA

UTLEY CREEK WRF
LAB & OPERATORS BUILDING

DATE

BY

ADDENDUM NO.

ATTACHMENT NO.

SHEET OF