PINNACLE ENGINEERING GROUP, P.A.
2032 THOMASVILLE ROAD, SUITE C
TALLAHASSEE, FLORIDA 32308
(850) 422-1763 PHONE

October 22, 2024

ADDENDUM #1

FAMU: CAMPUS CHW INFRASTRUCTURE – NORTH LOOP
[PEG #223-131]

MECHANICAL

1. **SHEET ME-1.2:**
    a. Added existing to remain HHW pumps to Pump Schedule.
    b. Clarified HHW pumps on Variable Speed Drive Schedule.
2. **SHEET ME-3:**
    a. Added Mechanical Work Note #7, clarifying direct bury valve requirements.
    b. Added note #7 to sheet.
    c. Clarified location of existing to remain CHW pipe.
3. Refer to attached Pre-bid RFI questions and responses.

END OF ADDENDUM #1

FAMU: Campus CHW Infrastructure - North Loop - Pre-Bid RFIs							
Question #	Asked Date	Asked By	Company	Question Asked	Response From	Response Date	Response
1	10/10/24	Charles Crosier III	WW Gay	What is the apprroximate start of this project?	David Rosenfeld	10/10/24	January. We anticipate tying the Notice to Proceed with the expected delivery date of the materials.
2	10/10/24	Charles Crosier III	WW Gay	Is there a 12” line reducing to 10” from Vault #11 or just the 12” reducing to 6”? Per page ME-2 shows 6” CHW from Vault #11 & 12” reducing to 10” CHW from Vault #11. Per page ME-3 shows the 6” CHW Vault #11 but not the 12” reducing to 10” Per page ME6.4 shows 12” reducing to 6”	Rob Allbritton	10/22/24	Yes, there are existing 12" CHWS&R pipes that exit the EAST side of Vault #11 and serve SBI North; they are existing to remain and shown on sheet ME-3; will clarify, refer to Addendum #1 drawings. The survey recorded the depth of the pipes at point ML45. The new work for the project connects new 6" CHWS&R to the existing 12" CHWS&R on the WEST side of Vault #11.
3	10/15/24	Brian Blankenship	Miller Works	Does the project require a Geneal Contractor's license or will licensing for each scope of work be acceptable (i.e. Site Contractor License, Mechanical License, Electrical License, etc.)	Rob Allbritton	10/22/24	General Contractors are not prohibited from bidding the project. Prime contractor shall be either a General Contractor or a Mechanical Contractor. All disciplines shall be Sub-contractors to the Prime Contrator. Bids submitted for this project shall represent all costs to complete the entire scope of the project. Prime Contractor shall list all Sub-contractors for permitting. Prime Contractor shall submit one (1) pay request per pay period that encompasses all disciplines.
4	10/15/24	Brian Blankenship	Miller Works	Who is performing the inspections so we know who to discuss permit fees with? (i.e. FAMU, City of Tallahassee)	Rob Allbritton	10/22/24	Inspections will be performed by FAMU's Authority Having Jurisdiction; Leon County Schools. Permit fees will be paid by FAMU.
5	10/15/24	Brian Blankenship	Miller Works	Will surveyed as-builts be required by a licensed company or will redline drawings on the civil set be acceptable for all underground work?	Cameron Snipes	10/22/24	Red line markups provided by the Contractor are sufficient. Contractor shall provide information regarding depth if different than typical.
6	10/15/24	Brian Blankenship	Miller Works	Does the Owner have a Start and Finish date for this project or will this be up to each bidder to provide?	Rob Allbritton	10/22/24	We anticipate the contract for the winning bidder to be awarded in November 2024. We anticipate the notice to proceed will be issued in January 2025. We anticipate the project duration to be 14 to 18 months from the notice to proceed.
7	10/15/24	Brian Blankenship	Miller Works	The VFD Schedule on Sheet ME-1.2 shows a VSD-KM.HHW-1 and VSD-KM.HHW-2, but does not have the note 6 which indicates to replace the existing motor. When you review the adjacent pump schedule these two (2) pumps are not listed. Please advise if two (2) new pumps and VFDs are needed, if existing pumps need new motors and VFDs or if only new VFDs are required for the existing pumps.	Rob Allbritton	10/22/24	There are two existing to remain HHW pumps in the basement of Lucy Moten. These existing pumps have VSD's that are being replaced (see sheet ME9.2). New motors for the HHW pumps are not required. Will clarify, refer to Addendum #1 drawings.
8	10/15/24	Brian Blankenship	Miller Works	Do all valves in underground pits and vaults need to be stainless steel or will ductile or cast iron be acceptable?	Rob Allbritton	10/22/24	Stainless valve bodies are not required for valves located in Vaults. Refer to Specification 230520-5 for butterfly valve requirements. 250# working pressure rating is required. Refer to Addendum #1 for additional direct bury valve requirements.
9	10/15/24	Brian Blankenship	Miller Works	Would Grundfos / PACO be an acceptable alternate manufacturer under the end suction pumps specification?	Rob Allbritton	10/22/24	PACO is listed in Specification 232123-2 as an available manufacturer.

NEW FAN COIL UNIT SCHEDULE

MARK	FCU-LM-1	
AREA SERVED	ELECTRICAL	
TOTAL AIR (CFM)	200	
RETURN AIR (CFM)	200	
OUTSIDE AIR (CFM)	0	
FAN SPEED (RPM)	1011	
ESP/TSP (IN. WATER)	-/0.25	
FAN MOTOR (HP)	0.13	
ELECTRIC (V/PH/HZ)	115/1/60	
COOLING COIL SECTION		
CFM	200	
FACE VELOCITY (FPM)	-	
ENT. AIR (DB/WB)(°F)	77.0/64.2	
LV. AIR (DB/WB)(°F)	59.8/58.1	
CAPACITY (MBH)(TOTAL)	3.76	
CAPACITY (MBH)(SENS.)	3.74	
CAPACITY (MBH)(LAT.)	0.02	
WATER TEMP (ENT./LV.)(°F)	45/57	
WATER QUANTITY (GPM)	0.62	
AIR FRICTION (IN. WTR.)	-	
WATER FRICTION (FT. WTR.)	0.70	
ROWS DEEP	3	
FIN SPACING (FIN/FT)	144	
FILTER SECTION		
TYPE	MERV 8	
FILTER BOX (TYPE)	-	
DEPTH (IN.)	1"	
BASIS OF DESIGN	TRANE	
MODEL NO.	FCDB020	
NOTES	(1)(2)(3)	

NOTES:

(1) PROVIDE FCU's WITH ECM FAN MOTOR.

(2) HORIZONTAL EXPOSED CABINET FCU SUSPENDED FROM STRUCTURE WITH INTEGRAL SUPPLY AND RETURN GRILLES. SUPPLY GRILLE SHALL HAVE ADJUSTABLE THROW. CABINET SHALL BE MANUFACTURER'S STANDARD FINISH. PROVIDE ALL SUPPLEMENTARY STEEL AND VIBRATION ISOLATING HANGING MECHANISMS.

(3) SINGLE POINT POWER CONNECTION.

AIR SEPARATOR SCHEDULE

DESIGNATION	AS-SBIS-1	AS-LM-1
SERVICE	CHW	CHW
TYPE	AIR/DIRT	AIR/DIRT
FLOW RATE, GPM	370	105 •
INLET SIZE, INCHES	6	4
MAX. PRESSURE DROP	2 FT	2 FT
ENTERING WATER TEMP.	45	45
MANUFACTURER	TACO	TACO
MODEL	4900 SERIES	4900 SERIES

1. PROVIDE WITH AIR VENT, BLOW DOWN VALVE & FLUSH VALVE.
2. RATED AT 125 PSI AT 240° F.
3. PARTICLE REMOVAL TO 5 MICRONS.
4. INSULATE WITH FOAM GLASS INSULATION AND FINISH WITH ALUMINUM JACKET.
5. PROVIDE BASE RING & STAND OR LIFTING LUGS AS REQUIRED FOR PIPE INSTALLATION HEIGHT. PRIME AND PAINT.
6. PROVIDE WITH REMOVABLE COVER.

SBI - SOUTH
EXIST. AHU CHW CONTROL VALVE SCHEDULE

AHU TAG #	LOCATION	CHW VALVE TYPE	ACTION
AHU-1	GND. FL.	3-WAY	CLOSE BY-PASS COCK
AHU-2	GND. FL.	2-WAY	NONE
AHU-3	GND. FL.	3-WAY	CLOSE BY-PASS COCK
AHU-4	GND. FL.	2-WAY	NONE
AHU-5	PENTHOUSE	3-WAY	CLOSE BY-PASS COCK

SBI - SOUTH
EXIST. FCU CHW CONTROL VALVE SCHEDULE

FCU TAG #	LOCATION	CHW VALVE TYPE	ACTION (QUANTITY @ FLOW)
FCU-1	BUILDING	2-WAY	NONE (46(±) @ 1.2 GPM)
FCU-2	BUILDING	2-WAY	NONE (1 @ 1.9 GPM)
FCU-3	BUILDING	3-WAY	NONE (15 @ 1.9 GPM)
FCU-4	BUILDING	3-WAY	NONE (5 @ 2.3 GPM)
FCU-5	BUILDING	2-WAY	NONE (1 @ 2.3 GPM)
FCU-6	BUILDING	2-WAY	NONE (0 @ 3.4 GPM)
FCU-7	BUILDING	2-WAY	NONE (0 @ 4.9 GPM)
FCU-8	BUILDING	3-WAY	NONE (2 @ 5.3 GPM)
FCU-9	BUILDING	3-WAY	NONE (6 @ 5.3 GPM)
FCU-10	BUILDING	3-WAY	NONE (2 @ 5.3 GPM)

SBI - EAST
CHW CONTROL VALVE SCHEDULE

AHU TAG #	LOCATION	EXISTING CHW VALVE TYPE	ACTION
AHU-1	MECH. RM 1 (1st FLOOR)	3-WAY	INSTALL BALL VALVE W/MEMORY STOP IN BYPASS
AHU-2	MECH. RM 2 (2nd FLOOR)	3-WAY	INSTALL BALL VALVE W/MEMORY STOP IN BYPASS
AHU-3	MECH. RM 3 (3rd FLOOR)	3-WAY	INSTALL BALL VALVE W/MEMORY STOP IN BYPASS
AHU-4	MECH. RM 4 (4th FLOOR)	3-WAY	NONE

LUCY MOTEN
CHW CONTROL VALVE SCHEDULE

AHU/FCU TAG #	LOCATION	CHW VALVE TYPE	ACTION (QUANTITY @ FLOW)
AHU-1-1	GROUND FLOOR	3-WAY	CLOSE BYPASS (2 @ 6.6 GPM)
AHU-1-2	GROUND FLOOR	3-WAY	CLOSE BYPASS (1 @ 6.0 GPM)
FCU-LM-1	GROUND FLOOR	2-WAY	NONE (1 @ 0.62 GPM)
AHU-1-3	GROUND FLOOR	3-WAY	NONE (1 @ 16.3 GPM)
FCU-201	SECOND FLOOR	3-WAY	CLOSE BYPASS (1 @ 3.9 GPM)
FCU-202	SECOND FLOOR	3-WAY	CLOSE BYPASS (1 @ 3.55 GPM)
FCU-203	SECOND FLOOR	3-WAY	CLOSE BYPASS (1 @ 5.7 GPM)
FCU-204	SECOND FLOOR	3-WAY	CLOSE BYPASS (1 @ 2.3 GPM)
FCU-207	SECOND FLOOR	3-WAY	CLOSE BYPASS (1 @ 4.3 GPM)
FCU-208	SECOND FLOOR	3-WAY	CLOSE BYPASS (1 @ 2.2 GPM)
FCU-208A	SECOND FLOOR	3-WAY	CLOSE BYPASS (1 @ 3.4 GPM)
FCU-209	SECOND FLOOR	3-WAY	CLOSE BYPASS (1 @ 4.2 GPM)
FCU-210	SECOND FLOOR	3-WAY	CLOSE BYPASS (1 @ 4.2 GPM)
FCU-211	SECOND FLOOR	3-WAY	CLOSE BYPASS (1 @ 0.8 GPM)
FCU-215	SECOND FLOOR	3-WAY	CLOSE BYPASS (1 @ 3.25 GPM)
FCU-216	SECOND FLOOR	3-WAY	CLOSE BYPASS (1 @ 4.2 GPM)
FCU-217	SECOND FLOOR	3-WAY	CLOSE BYPASS (1 @ 4.8 GPM)
FCU-218	SECOND FLOOR	3-WAY	CLOSE BYPASS (1 @ 4.4 GPM)
FCU (HALL)	SECOND FLOOR	3-WAY	NONE (1 @ 5.1 GPM)
FCU (SE ENTRY)	SECOND FLOOR	3-WAY	NONE (1 @ 4.2 GPM)
FCU (SW ENTRY)	SECOND FLOOR	3-WAY	NONE (1 @ 4.15 GPM)
FCU (VENDING)	SECOND FLOOR	3-WAY	CLOSE BYPASS (1 @ 3.7 GPM)
			TOTAL CHW FLOW: 104.47 GPM

VARIABLE SPEED DRIVE SCHEDULE

MARK	VSD-P3	VSD-P4	VSD-1	VSD-2	VSD-LM.CHW-1	VSD-LM.CHW-2	VSD-LM.HHW-1	VSD-LM.HHW-2
BUILDING	SBI SOUTH	SBI SOUTH	SBI EAST	SBI EAST	LUCY MOTEN	LUCY MOTEN	LUCY MOTEN	LUCY MOTEN
HP	15	15	7.5	7.5	3	3	3	3
ELECT.	460/3/60	460/3/60	208/3/60	208/3/60	208/3/60	208/3/60	208/3/60	208/3/60
SERVICE	P-3	P-4	CWP-1	CWP-2	CHWP-LM-1	CWP-LM-2	HHWP-1	HHWP-2
MFR	ABB	ABB	ABB	ABB	ABB	ABB	ABB	ABB
MODEL	ACH-550	ACH-550	ACH-550	ACH-550	ACH-550	ACH-550	ACH-550	ACH-550
NOTES	1,2,3,4,5,7,8,9	1,2,3,4,5,7,8,9	1,2,3,4,5,6,7,8	1,2,3,4,5,6,7,8	1,2,3,5,7,8	1,2,3,5,7,8	1,2,3,5,7,8	1,2,3,5,7,8

NOTES

1. PROVIDE WITH MANUAL BYPASS TRANSFER SWITCH; REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. OUTPUT CONTACTOR SHALL DISCONNECT MOTOR FROM DRIVE WHEN DRIVE IS STOPPED.
3. VSD FURNISHED BY DIVISION 23 AND INSTALLED AND WIRED BY DIVISION 26. COORDINATE W/ CONTROLS CONTRACTOR FOR CONTROL INTERFACE.
4. REDUCED VOLTAGE BYPASS REQUIRED (15HP AND GREATER) FOR COMPLIANCE WITH CITY OF TALLAHASSEE REQUIREMENTS.
5. CONTRACTOR SHALL FIELD VERIFY HORSEPOWER & VOLTAGE PRIOR TO ORDERING VSD.
6. REPLACE EXISTING MOTOR W/ PREMIUM EFFICIENCY MOTOR, CLASS "F" INSULATION, INVERTER DUTY. REFER TO DIVISION 23 SPECIFICATION REQUIREMENTS. MOTOR SIZE TO MATCH EXISTING. TURN OVER EXISTING MOTOR TO OWNER. PROVIDE NEW COUPLING; MODIFY SUPPORTS AS REQUIRED. CONTRACTOR SHALL FIELD VERIFY MOTOR HORSEPOWER R.P.M. AND VOLTAGE BEFORE PURCHASE.
7. VSD SHALL HAVE INTEGRAL DISCONNECT & OVERCURRENT DEVICE.
8. V.S.D. SHALL HAVE CONTACTS FOR CONNECTION TO REMOTE SAFETY SWITCH EARLY BREAK CONTACTS.
9. ENCLOSURE SHALL BE RATED FOR OUTDOOR APPLICATION. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

PUMP SCHEDULE

MARK	-	P-3	P-4	CWP-1 (EXIST)	CWP-2 (EXIST)	CHWP-LM-1	CHWP-LM-2	HHWP-1	HHWP-2
BUILDING	-	SBI - SOUTH	SBI - SOUTH	SBI - EAST	SBI - EAST	LUCY MOTEN	LUCY MOTEN	LUCY MOTEN	LUCY MOTEN
SERVICE	-	TERTIARY	TERTIARY	TERTIARY	TERTIARY	TERTIARY	TERTIARY	---	---
TYPE	-	END SUCTION	END SUCTION	END SUCTION	END SUCTION	END SUCTION	END SUCTION	END SUCTION	END SUCTION
WATER FLOW	GPM	370	370	180	180	105	105	---	---
TOTAL DYNAMIC HEAD	FT. H_2O	105	105	65	65	45	45	---	---
MOTOR	HP	15	15	7.5	7.5	3	3	3	3
SPEED	RPM	1760	1760	1725	1725	1760	1760	---	---
MOTOR TYPE	-	TEFC	TEFC	ODP	ODP	ODP	ODP	---	---
BASE TYPE	-	HOUSEKEEPING	HOUSEKEEPING	INERTIA	INERTIA	HOUSEKEEPING	HOUSEKEEPING	---	---
IMPELLER DIA.	IN.	10.7	10.7	---	---	6.8	6.8	---	---
SUCTION DIA.	IN.	4	4	---	---	2.5	2.5	---	---
DISCHARGE DIA	IN.	3	3	---	---	1.5	1.5	---	---
ELECTRICAL	V/ø/HZ	460/3/60	460/3/60	208/3/60	208/3/60	208/3/60	208/3/60	208/3/60	208/3/60
LOCATION	-	PENTHOUSE	PENTHOUSE	SBI EAST	SBI EAST	GROUND FLR MER	GROUND FLR MER	GROUND FLR MER	GROUND FLR MER
MANUFACTURER	-	TACO	TACO	TACO	TACO	TACO	TACO	---	---
MODEL	-	FI3011	FI3011	FM2508	FM2508	FI1507D	FI1507D	---	---
NOTES	-	(1)	(1)	(2)	(2)	(1)	(1)	(3)	(3)

(1) MOTOR SHALL BE PREMIUM EFFICIENCY, INVERTER DUTY PER SPECIFICATION.
(2) EXISTING CHW PUMPS TO REMAIN. NOTE: SEE VSD SCHEDULE AND REPLACE MOTOR WITH NEW PREMIUM EFFICIENCY, INVERTER DUTY MOTOR.
(3) EXISTING HHW PUMPS AND MOTORS TO REMAIN. NOTE: REMOVE EXISTING VSD AND REPLACE WITH NEW. SEE FLOOR PLANS AND VSD SCHEDULE.

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SEAL

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REV#	DESCRIPTION	DATE
1	ADDENDUM #1	10/22/24

FAMU: CAPMUS CHW INFRASTRUCTURE
NORTH LOOP
FLORIDA A & M UNIVERSITY
TALLAHASSEE, FLORIDA

DRAWING TITLE: SYMBOL LEGEND, NOTES AND SCHEDULES

FILE:	ME-1.2
JOB NO.:	223-131
DATE :	9/9/2024
PLOT SIZE:	1=1
DRAWN BY:	CAH
CHECKED BY:	RA
SHEET No.:	ME-1.2

NOTES:
1.) THIS SURVEY IS DEPENDENT ON EXISTING MONUMENTATION.
2.) NO IMPROVEMENTS LOCATED OTHER THAN SHOWN.
3.) ALL MEASUREMENTS ARE IN U.S. FEET.
4.) THIS SURVEY DOES NOT REFLECT OR DETERMINE OWNERSHIP.
5.) ENCROACHMENT AS SHOWN

NOTE:
CONTRACTOR TO FENCE ENTIRE CONSTRUCTION AREA (PHASE WORK & FENCING AS REQUIRED TO MAINTAIN BUILDING & TRAFFIC EGRESS). INSTALL AND MAINTAIN EROSION CONTROL (COORDINATE WITH CIVIL FOR HAY BALES AND SILT FENCE REQUIREMENTS) AND MAINTAIN PEDESTRIAN SAFETY AND TEMPORARY ROUTING FOR DURATION OF PROJECT.

RESTORATION NOTES:
1) RESTORE ALL AREAS TO ORIGINAL GRADE.
2) COMPLETELY SOD ALL UNPAVED AREA'S DISTURBED DURING THE COURSE OF CONSTRUCTION.
3) ALL PAVEMENT, CONCRETE, CURBS, ETC MUST BE RESTORED.
4) COORDINATE WITH CIVIL FOR ALL WORK AND ADDITIONAL REQUIREMENTS.

NOTICE: THE UTILITIES INDICATED ON THESE DRAWINGS WERE COMPILED FROM RECENT SITE SURVEY, AND FIELD OBSERVATIONS. EFFORT HAS BEEN MADE TO ENSURE THE ACCURACY OF THE INFORMATION SHOWN; HOWEVER MANY OF THE UTILITIES ARE UNDERGROUND AND EXACT LOCATION CANNOT BE DETERMINED WITHOUT EXCAVATION. THERE MAY BE OTHER EXISTING UNDERGROUND UTILITIES NOT SHOWN ON THESE DRAWINGS. EXCAVATION SHOULD BE COORDINATED WITH ALL APPROPRIATE UTILITY COMPANIES.

NOTE:
CALL SUNSHINE STATE ONE @ 1-800-432-4770 BEFORE DIGGING.

COMMUNICATIONS SYMBOL LEGEND
—— C —— NEW (5) 4" PVC CONDUITS BURIED (MINIMUM 48" BELOW GRADE)
COMMUNICATIONS MANHOLE

BENCHMARK #5009
N: 520119.8218
E: 2035328.0662
ELEV.= 129.13' (NAVD88)
(SET I.R.&C. STAMPED "GPS/TRAV LB 7055")

BENCHMARK #5010
N: 520139.4777
E: 2034953.9028
ELEV.= 129.69' (NAVD88)
(SET I.R.&C. STAMPED "GPS/TRAV LB 7055")

BENCHMARK #5011
N: 520057.4298
E: 2034967.3488
ELEV.= 144.11' (NAVD88)
(SET I.R.&C. STAMPED "GPS/TRAV LB 7055")

S.B.I. EAST
S.B.I. NORTH
S.B.I. SOUTH
S.B.I. WEST
FUTURE BLDG.
FUTURE BLDG.

MECHANICAL WORK NOTES:

1. REFER TO MECHANICAL GENERAL NOTES (AND SPECIFICATIONS) AND CIVIL DRAWINGS FOR TEMPORARY FENCING, HAY BALES, SILT FENCING, SIGNAGE, AUDIBLE/VISUAL DEVICES, RESTORATION, ETC. REQUIREMENTS. RESTORE TO PRE-CONSTRUCTION CONDITIONS UPON COMPLETION OF WORK.
2. REFER TO HYDRONIC PIPING SPEC. (232113). PROVIDE EXPANSION LOOPS, EXPANSION ELBOWS, ANCHORS, THRUST BLOCKS, ETC. AS RECOMMENDED BY U.G. PRE-INSULATED PIPE MFR. INCLUDE ALL COSTS IN BID.
3. PIPE ANCHORS (TYP).
4. EXISTING BUILDING (FAMU DRS) HAS BEEN DEMOLISHED. BUILDING FOOTPRINT IS NOW SOD.
5. NEW UNDERGROUND DRAIN VALVE PITS, REFER TO DETAIL AND PIPE PROFILE.
6. NEW UNDERGROUND AIR VENT BOX, REFER TO DETAIL AND PIPE PROFILE.
7. CHW&R ISOLATION VALVES - M&H VALVE MACS15 OR APPROVED EQUAL, FULL BODY CAST IRON RESILIENT WEDGE VALVE, EPOXY COATED, 18", FLANGED ENDS WITH ZINC COATED BOLTS AND NUTS, NON-RISING STEM WITH SQUARE OPERATING NUT, EXTENDED STEM (AS REQUIRED WITH PROTECTIVE PIPING) AND INSULATE ENTIRE VALVE ASSEMBLY WITH CANUSA INSULATING KIT COMPATIBLE WITH U.G. PREINSULATED PIPING SYSTEM.

PIPE FLUSHING:
CONTRACTOR SHALL FLUSH ALL NEWLY INSTALLED PIPING. PRIOR TO CONNECTING TO ANY EXISTING CAMPUS PIPING SYSTEM, THE CONTRACTOR SHALL SUBMIT A PIPE FLUSHING PROCEDURE TO THE OWNER/ENGINEER FOR REVIEW AND APPROVAL. WATER FOR FLUSHING IS AVAILABLE FROM A FIRE HYDRANT OR OTHER APPROVED METHOD. ALL COSTS ASSOCIATED WITH FLUSHING SUCH AS WATER, WATER METER DEPOSIT, TEMPORARY PIPING, HAY BAILS, SAND BAGS, EROSION CONTROL AND THE LIKE SHALL BE THE CONTRACTORS RESPONSIBILITY. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO TEST THE SYSTEM AND VERIFY IT IS CLEAN PRIOR TO CONNECTING NEW PIPING TO ANY EXISTING BUILDING PIPING SYSTEM.

GENERAL COMMUNICATIONS NOTES:
1. BENDING RADIUS FOR COMMUNICATIONS CONDUIT SHALL BE 48" MINIMUM.
2. NEW COMMUNICATIONS MANHOLES SHALL BE 48" X48" X 60"D, SEE MANHOLE DETAIL.
3. COMMUNICATIONS CONDUIT SHALL BE SLOPED TO DRAIN INTO MANHOLES.
4. PROVIDE PULL STRINGS IN ALL EMPTY COMMUNICATIONS CONDUIT.
5. PROVIDE GROUND RODS AND GROUNDING LOOPS IN ALL COMMUNICATIONS MANHOLES, SEE SPECIFICATIONS.
6. THE COMMUNICATIONS CONDUITS SHALL, (WHERE POSSIBLE) OCCUPY ONE SIDE OF A COMMON TRENCH, COORDINATE INSTALLATION WITH DIVISION. SEE U.G. PIPING DETAIL.
7. ALL COMMUNICATIONS BETWEEN BUILDINGS SHALL BE ACCOMPLISHED THROUGH FIBER OPTICS. RUN CONTINUOUS CABLE BETWEEN BUILDINGS WITH NO SPLICES LOCATED BELOW GRADE IN HAND HOLES.
8. PROVIDE (1) 1" INNERDUCT IN ONE OF THE NEW 4" PVC COMMUNICATION CONDUITS. THE INNERDUCT SHALL CONTAIN (2) 8 STRAND FIBER OPTIC BUNDLE CABLES WITH LOSE TUBE GEL FILLED OUTER JACKET. PROVIDE PULL STRING OUTSIDE OF INNERDUCT BUT WITHIN CONDUIT FOR FUTURE. A 4"C. WITH (2) 8 STRAND FIBER CABLES AND INNERDUCT SHALL EXTEND TO BUILDINGS SHOWN.
9. THIS COMMUNICATIONS CONDUIT SHALL RISE INTO A PULL BOX, (PULL BOX SHALL BE SIZED TO CONFORM TO FIBER OPTIC BENDING RADIUS REQUIREMENTS). PROPERLY SEAL ALL CONDUITS. TERMINATE CABLE AT FIBER OPTIC PATCH PANEL AND TEST. A CONDUIT WITH CABLE SHALL CONTINUE ON TO THE CONTROL PANEL.

GENERAL CUTTING AND PATCHING NOTES:
1. COORDINATE WITH CIVIL DRAWINGS FOR ALL PAVEMENT, CONCRETE, ASPHALT, SIDEWALK, CURB, CULVERT, ETC. MODIFICATIONS. ALL DISTURBED EXISTING CONDITIONS SHALL BE REPLACED TO MATCH. SAW CUT AND REMOVE EXISTING PAVEMENT, CONCRETE SIDEWALKS, CURBS, ETC. AS REQUIRED FOR INSTALLATION OF CHW PIPING, CONCRETE VAULT, COMMUNICATIONS MANHOLE & ELECTRIC DUCTBANK. ONCE NEW WORK IS INSTALLED, RESTORE PAVEMENT, CONCRETE SIDEWALKS, CURBS, SOD, ETC. TO NEW CONDITION AND D.O.T. SPECIFICATIONS (ALSO INCLUDING CURBS, WALKS, GUTTERS, STRIPING, ALL PAVEMENT & CURB MARKINGS, ETC.).
2. REFER TO CIVIL FOR ALL PAVEMENT CUT AND PATCH REQUIREMENTS AND DETAILS.
3. REFER TO CIVIL FOR ALL SIDEWALK RESTORATION REQUIREMENTS AND DETAILS. DISTURBED CONCRETE SIDEWALKS SHALL BE REPLACED JOINT-TO-JOINT.
4. REFER TO CIVIL FOR ALL REQUIRED SUBMISSIONS FOR PEDESTRIAN AND TRAFFIC ROUTING PLANS. PLANS REQUIRE OWNER REVIEW AND APPROVAL MINIMUM 1 WEEK PRIOR TO CLOSING ROADWAYS AND WALKWAYS.

KEYPLAN
NOT TO SCALE

CHW INFRASTRUCTURE - NORTH LOOP - AREA A
SCALE: 1"=20'-0"

SEAL

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REV#	DESCRIPTION	DATE
1	ADDENDUM #1	10/22/24

FAMU: CAPMUS CHW INFRASTRUCTURE
NORTH LOOP
FLORIDA A & M UNIVERSITY
TALLAHASSEE, FLORIDA

DRAWING TITLE:
NORTH LOOP
SITE PLAN - AREA A

FILE:	ME-3
JOB NO.:	223-131
DATE :	9/9/2024
PLOT SIZE:	1=1
DRAWN BY:	CAH
CHECKED BY:	R.A.
SHEET No.:	ME-3