

N/F:
BARKS HARRINGTON, LLC.
6-09-18005-01-4200-00001

N/F:
KING EXPRESS, LLC.
6-09-18000-01-0802-00001

APPROXIMATE
LOCATION OF
EXISTING FIRE
HYDRANT

PORTER STREET
LOCAL ROAD 24044

N/F:
THE TOWN OF HARRINGTON
6-09-18000-01-0200-00001

SURVEY LEGEND

- IRON ROD W/ CAP FOUND
PK NAIL FOUND
BOUNDARY POINTS
ELECTRIC AND/OR TELECOMMUNICATIONS VAULT

SYMBOL LEGEND

- EXISTING FIRE HYDRANT

N/F:
REALTY INCOME CORPORATION
6-09-18005-01-4100-00001

S DUPONT HIGHWAY
OTHER PRINCIPAL ARTERIALS
ROR 006

N/F:
SMITTY'S AUTO REPAIR, INC.
6-09-18005-01-4801-00001

N/F:
DOVER LAND HOLDINGS, LLC.
6-09-18005-01-4800-00001

HI - GRADE EVIDENCE STORAGE BLDG. CITY OF HARRINGTON MISPILLION HUNDRED KENT COUNTY, DELAWARE

DAVIS BOWEN & FRIEDEL, INC.
ARCHITECTS • ENGINEERS • SURVEYORS
BALTIMORE, MARYLAND 410.70.1441
MILFORD, DELAWARE 302.241.1441

DATE	ADDENDA	DNREC COMMENTS
1 12/27/2025	1	DNREC COMMENTS
2 2/27/2026	2	ADD SEPARATE OIL WASTE LINE
3 5/15/2026	3	DNREC COMMENTS
4 5/22/2026	4	DNREC COMMENTS
5 6/12/2026	5	DNREC COMMENTS
6 JULY 2026	6	DNREC COMMENTS
		BID SET

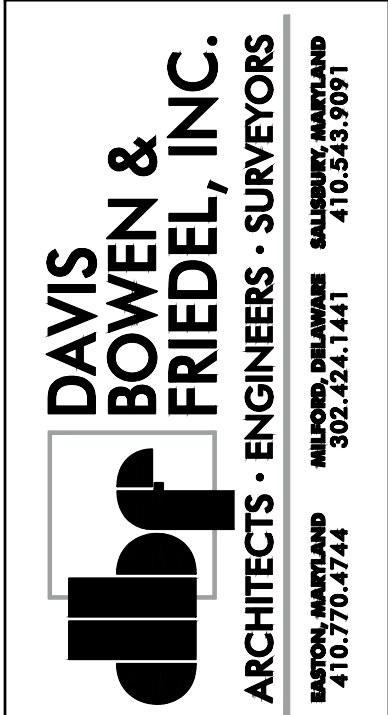
Date: AUGUST, 2025
Scale: 1" = 30'
Dwn.By: BAR
Proj.No.: 0586B053.B01

SITE PLAN

Dwg No.:

C-102





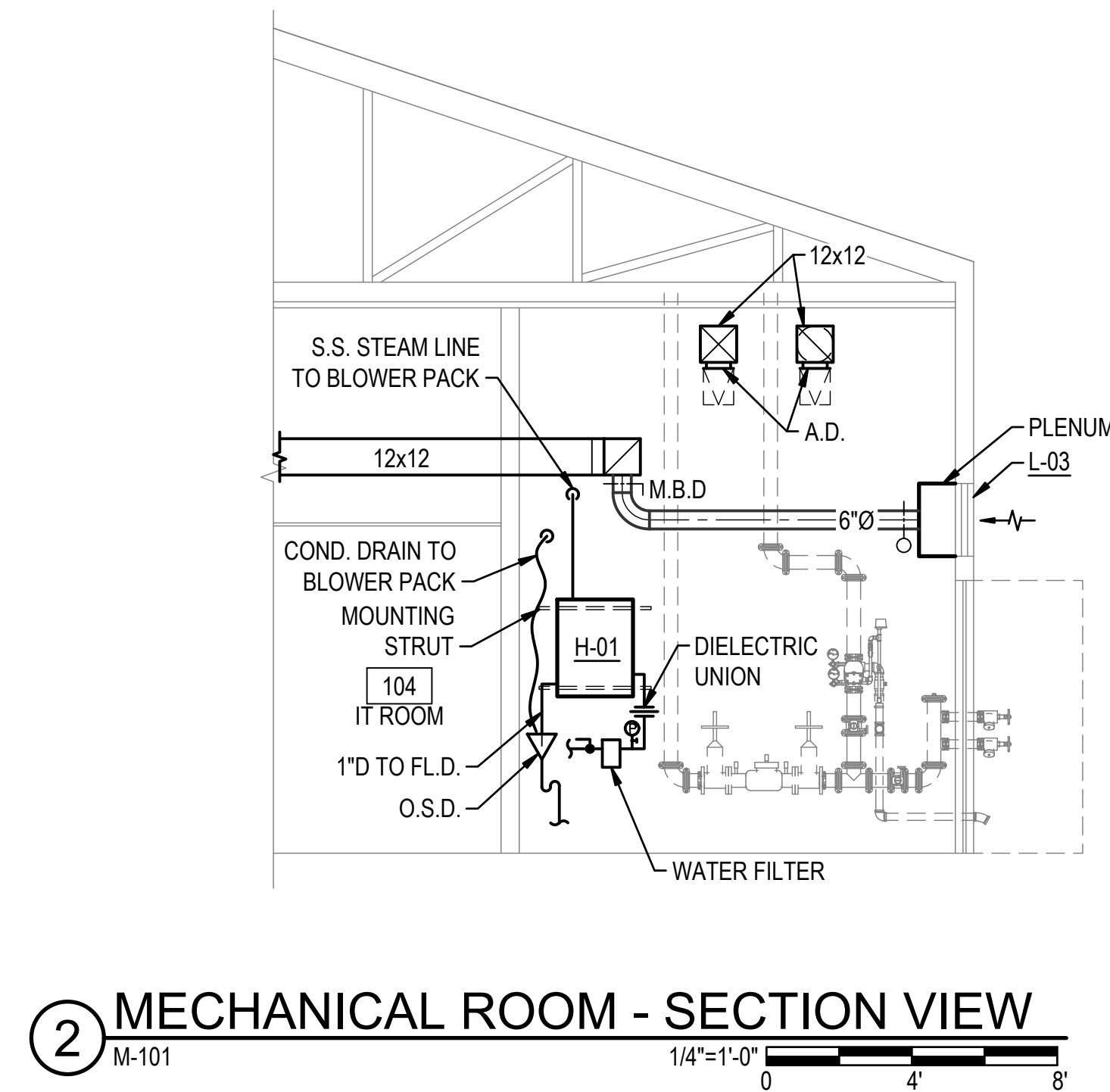
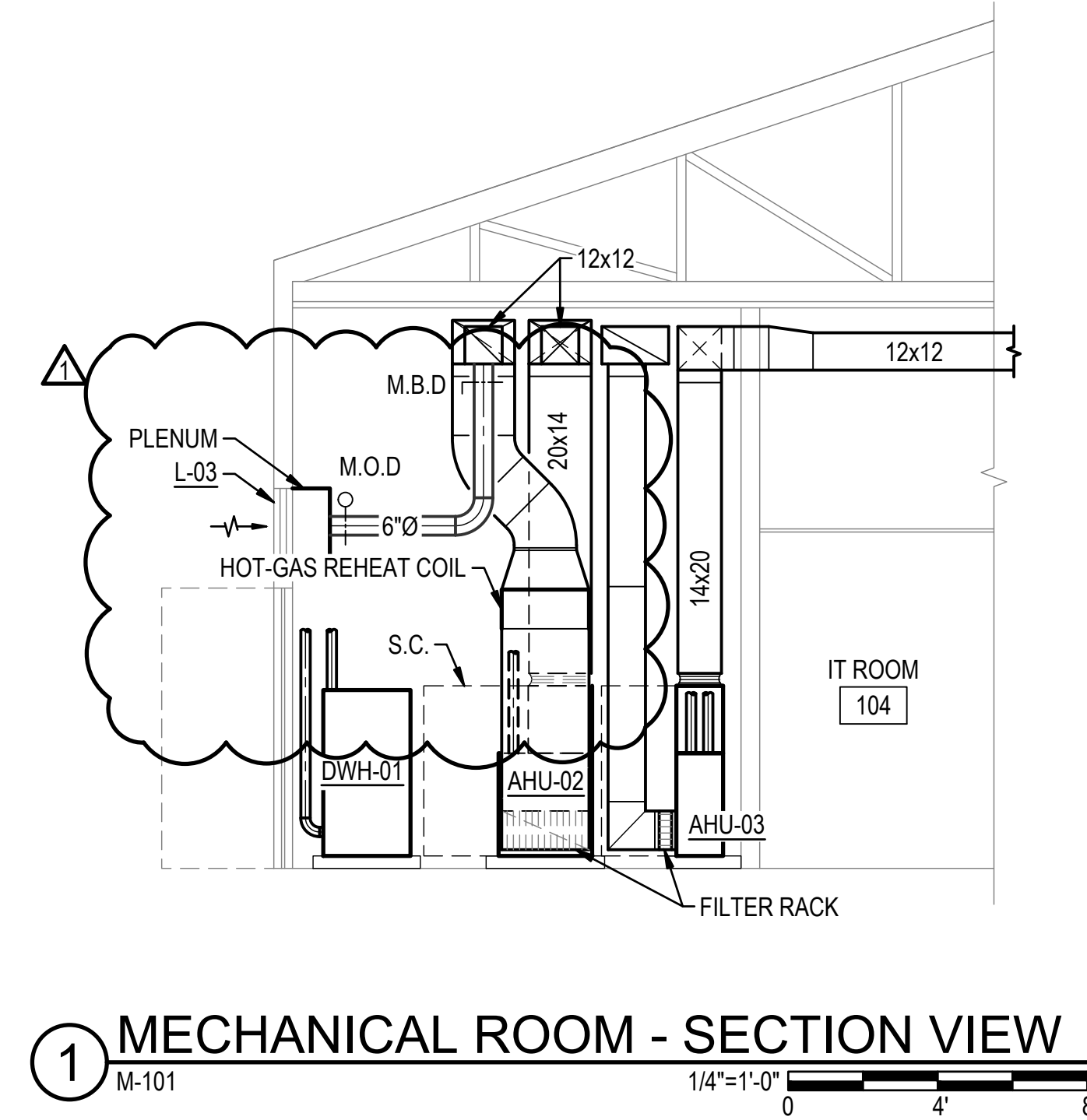
HI-GRADE - EVIDENCE STORAGE BLDG.
17257 S DUPONT HWY, HARRINGTON, DE 19952
OMB/DFM PROJECT NO: MJ4506000006

COMMENTS
1500% DESIGN SUBMISSION
60% DESIGN SUBMISSION
FIRE MARSHAL SUBMISSION
99% DESIGN SUBMISSION
BID SET
ADDENDUM 4

Date:	JULY 2026
Scale:	AS NOTED
Dwn.By:	JHG
Proj.No.:	0586B053.B01

FIRST FLOOR
PLAN - DOMESTIC

Dwg.No.:
P-102



	DATE	COMMENTS
	2/13/25	1530% DESIGN SUBMISSION
	8/14/25	60% DESIGN SUBMISSION
	10/07/25	FIRE MARSHAL SUBMISSION
	2/28/26	86% DESIGN SUBMISSION
	6/25/26	BID SET
1	8/10/26	ADDENDUM 3

Date: JULY 2026

Scale: AS NOTED

Dwn.By: JHG

Proj.No.: 0586B053.B01

SECTIONS

Dwg.No.:

M-301

PACKAGED AIR HANDLING UNIT SCHEDULE

UNIT NO.	TOTAL SUPPLY (CFM)	OUTDOOR AIR (CFM)	SUPPLY FAN							DX COOLING						HOT GAS REHEAT				GAS HEATING						FILTERS			LOCATION	AREA SERVED	NOTES
			TYPE	E.S.P.	T.S.P. (IN W.G.)	RPM	BHP MAX.	MOTOR H.P.	ELEC. (V/PH/Hz)	TOTAL CAP. (MBH)	SENS. CAP. (MBH)	E.A.T. (°F)		L.A.T. (°F)		E.A.T. (°F)		L.A.T. (°F)		FUEL TYPE	EFFICIENCY (%)	INPUT (MBH)	OUTPUT (MBH)	E.A.T. (°F)	L.A.T. (°F)	MAX. P.D. (IN. W.G.)		MERV			
				(IN W.G.)								D.B.	W.B.	D.B.	W.B.	D.B.	W.B.	D.B.	W.B.							INITIAL	FINAL				
				A																											
AHU-01	1500	300	AF	1.75	5.0	1596	2.4	2.4	200/3/60	45.0	33.8	80.8	66.4	55.0	54.9	55.0	54.9	75.0	NATURAL GAS	80.0	87.5	70.0	56.0	98.0	0.75	1.50	8 & 13	EXTERIOR	STORAGE AREA 2	B C D E F G H I	

NOTES

- | | | | |
|----|--|----|---|
| A. | AF = DOUBLE WIDTH, DOUBLE INLET AIR FOIL WHEEL | | BACNET INTERFACE MODULE FOR DIRECT NATIVE INTEGRATION TO THE BUILDING'S BAS WITHOUT EXTERNAL TRANSLATION GETAWAYS. |
| B. | PROVIDE PREMIUM EFFICIENCY MOTOR AND VARIABLE FREQUENCY DRIVE. | F. | VARIABLE-SPEED INVERTER SCROLL COMPRESSOR AND ELECTRONIC EXPANSION VALVE CAPABLE OF STAGELESS CAPACITY MODULATION FOR PRECISE DEWPOINT CONTROL. |
| C. | INSTALL PER DETAILS 1/M-502 AND 2/M-502. | I. | OUTDOOR CONDENSER FANS SHALL BE DIRECT-DRIVE EC MOTORS WITH VARIABLE-SPEED TURNDOWN FOR LOW-AMBIENT OPERATING CAPABILITY AND NOISE REDUCTION. PROVIDE FACTORY CONDENSER COIL HAIL GUARDS. |
| D. | GAS FURNACE SHALL HAVE STAINLESS STEEL HEAT EXCHANGER AND BURNERS. | G. | HOT GAS REHEAT COIL SHALL BE FULLY MODULATING VIA ELECTRONIC REHEAT VALVE TO MAINTAIN SPACE/DISCHARGE TEMPERATURE SETPOINT DURING DEHUMIDIFICATION MODE. |
| E. | BASIS OF DESIGN: FRASER-JOHNSTON MODEL KYG04E2C1AB6H324A1. | H. | SUPPLY WITH FACTORY-INSTALLED, PACKAGED DDC CONTROLLER AND |

SPLIT SYSTEM AIR HANDLING UNIT SCHEDULE

UNIT NO.	TOTAL SUPPLY (CFM)	OUTDOOR AIR (CFM)	SUPPLY FAN				DX COOLING				HOT GAS REHEAT				GAS HEATING					FILTERS				LOCATION	AREA SERVED	NOTES		
			TYPE A	E.S.P. (IN W.G.)	MOTOR H.P.	ELEC. (V/PH/Hz)	TOTAL CAP. (MBH)	SENS. CAP. (MBH)	E.A.T. (°F)		L.A.T. (°F)		E.A.T. (°F)		L.A.T. (°F)		FUEL TYPE	EFFICIENCY (%)	INPUT (MBH)	OUTPUT (MBH)	E.A.T. (°F)	L.A.T. (°F)	MAX. P.D. (IN. W.G.)				MERV	
									D.B.	W.B.	D.B.	W.B.	D.B.	W.B.	D.B.	W.B.							INITIAL					FINAL
AHU-02	625	100	AF	0.60	0.5	115/1/60	15.4	13.2	82.0	67.5	58.0	57.8	58.0	57.8	75.0	NATURAL GAS	80.0	21.0	16.5	47.0	86.0	0.75	1.50	8 & 13	MER	STORAGE 1	B C	
AHU-03	625	100	AF	0.60	0.5	115/1/60	13.5	11.4	81.9	67.3	57.0	56.8	-	-	-	NATURAL GAS	80.0	15.0	12.0	57.0	77.0	0.75	1.50	8 & 13	MER	STORAGE 2 & OFFICE	B	

NOTES

- A. AF = DOUBLE WIDTH, DOUBLE INLET AIR FOIL WHEEL
FC = FORWARD CURVE
IL = INLINE FAN
- B. PROVIDE ECM MOTOR.
- C. PROVIDE HOT GAS REHEAT COIL ATTACHMENT AT DISCHARGE OF UNIT.

DUCTLESS HEAT PUMP INDOOR UNIT SCHEDULE

UNIT NO.	AIRFLOW (CFM)	E.S.P. (IN W.G.)	MOTOR (W)	ELEC. V/Ø/HZ	SOUND RATING	COOLING			SEER	SERVICE	REMARKS				
						ENT. AIR TEMP. °F		RATED CAP. (MBH)							
						D.B.	W.B.								
HP-01	600	0.1	39	200/1/60	43	78.0	64.9	18.1	18	IT ROOM	A	B	C	D	

NOTES:

- | | |
|--|--|
| A. DX COIL, R-32 REFRIGERANT | C. BASIS OF DESIGN: DAIKIN MODEL FTXC18AXVJU |
| B. PROVIDE UNIT MOUNTED CONTROL PANEL WITH REMOTE THERMOSTAT AND PERMANENT WASHABLE ELECTROSTATIC FILTER. PROVIDE UNIT ETL OR UL LISTED IN ACCORDANCE WITH ARI STANDARDS 210, 240. | D. INSTALL PER DETAIL 4/M-502. |

HEAT PUMP CONDENSING UNIT SCHEDULE

UNIT NO.	SERVES	COOLING CAPACITY (MBH) A	HEATING CAPACITY (MBH) B	ELECTRICAL DATA		SEER	LOCATION	REMARKS
				VOLTS/PH/HZ	MCA			
HPU-01	IT ROOM	MATCH TO HP-01	MATCH TO HP-01	200/1/60	16.3	18	EXTERIOR	C

NOTES:

- | | |
|---|---|
| A. BASED ON 80°F-D.B./67°F-W.B. INDOOR AIR AND 95°F-D.B./75°F-W.B. OUTDOOR AIR. | C. BASIS OF DESIGN: DAIKIN MODEL RXC18AXVJU |
| B. BASED ON 70°F-D.B./60°F-W.B. INDOOR AIR AND 47°F-D.B./43°F-W.B. OUTDOOR AIR. | |

C AIR DEVICE SCHEDULE

SYMBOL	DESIG.	AIRFLOW (CFM)	NECK SIZE (INCHES)	OVERALL SIZE (INCHES)	MAX. S.P. DROP (IN. W.G.)	MAX. N.C.	HORIZONTAL THROW @ 100 FPM	FACE	TYPE	NOTES		
	SG-1	50-175	8	24x24	0.06	25	2	FLUSH FACE	4-WAY BLOW		C	
		180-350	10	24x24	0.06	25	4	FLUSH FACE	4-WAY BLOW		C	
		355-500	12	24x24	0.06	25	5	FLUSH FACE	4-WAY BLOW		C	
	RG-1	5-175	6	24x24	0.06	30	-	FLUSH FACE	-	B	C	
		180-400	10	24x24	0.06	30	-	FLUSH FACE	-	B	C	
		405-600	12	24x24	0.06	30	-	FLUSH FACE	-	B	C	
	EG-1	50-200	6	12x12	0.06	30	-	FLUSH FACE	-			

NOTES

- | | | |
|--|--|------------------|
| A. ALL DUCTED RETURN GRILLES. | C. PROVIDE WITH CABLE OPERATED DAMPER. INSTALL PER DETAIL 2/M-501. | LOUVERS. |
| B. ALL AIR DEVICES TO BE PAINTED. COORDINATE EXACT | | B. 115V/1PH/60HZ |

C AIR DEVICE SCHEDULE

UNIT NO.	TYPE A	AIRFLOW (CFM)	RPM	MOTOR (HP) B	AIR TEMP. RISE (°F)	HEATING CAP. (MBH)	AREA SERVED	BASIS OF DESIGN	NOTES
UH-02	PROP	450	1550	0.1	50.0	30.0	STORAGE AREA 1	REZNOR UDXC	C
UH-03	PROP	450	1550	0.1	50.0	30.0	STORAGE AREA 1	REZNOR UDXC	C
UH-04	PROP	450	1550	0.1	50.0	30.0	STORAGE AREA 1	REZNOR UDXC	C
UH-05	PROP	450	1550	0.1	50.0	30.0	STORAGE AREA 1	REZNOR UDXC	C

NOTES

- | | |
|--|---|
| A. PROP - HORIZONTAL PROPELLER WITH INDIVIDUALLY ADJUSTABLE DISCHARGE LOUVERS. | C. INSTALL PER DETAILS 1/M-501 AND 5/M-502. |
| B. 115V/1PH/60HZ | |

HI-GRADE - EVIDENCE STORAGE BLDG.
17257 S DUPONT HWY, HARRINGTON, DE 19952
OMB/DFM PROJECT NO: MJ450600006

OMB/DFM PROJECT NO: MJ4506000006

	DATE	COMMENTS
	2/13/25	150% DESIGN SUBMISSION
	8/14/25	60% DESIGN SUBMISSION
	10/07/25	PRE PARALLEL SUBMISSION
	2/26/26	99% DESIGN SUBMISSION
	6/25/26	BID SET
1	8/10/26	ADDENDUM 3

Date: JULY 2026

Scale: AS NOTED

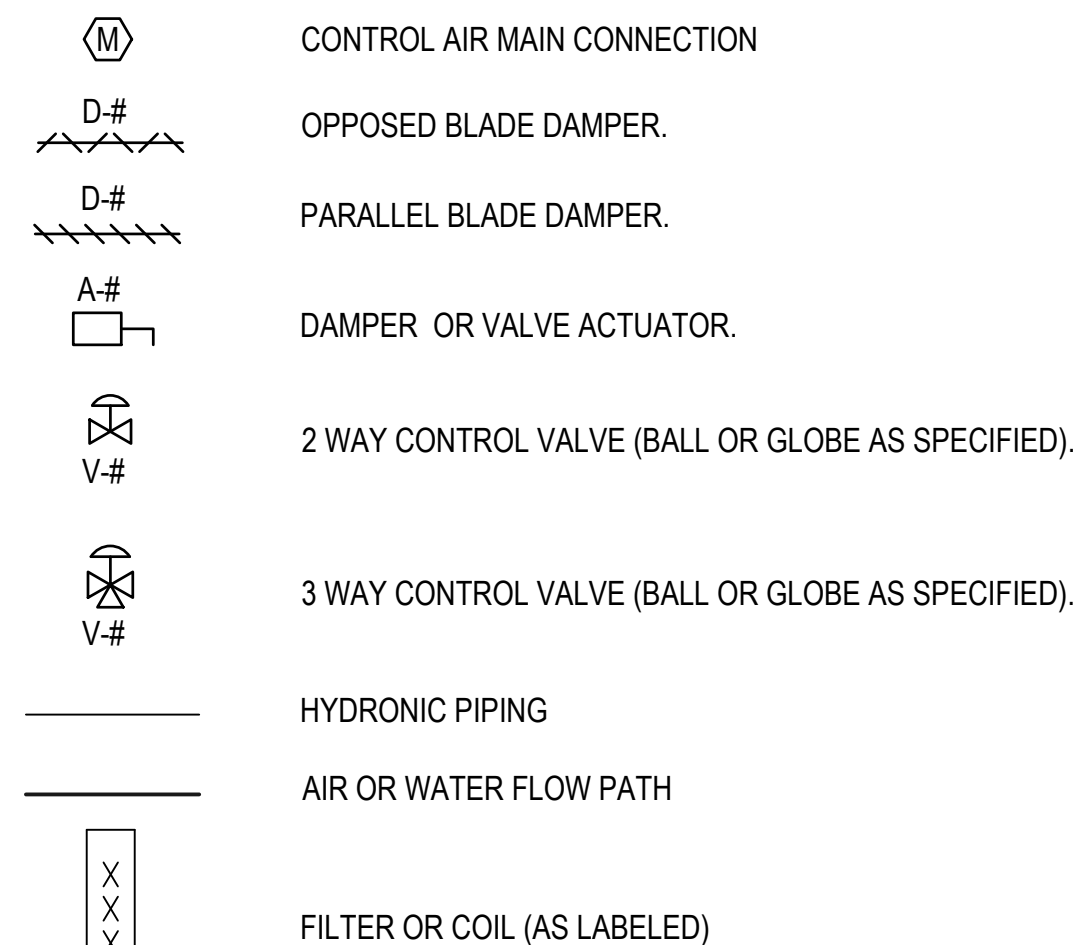
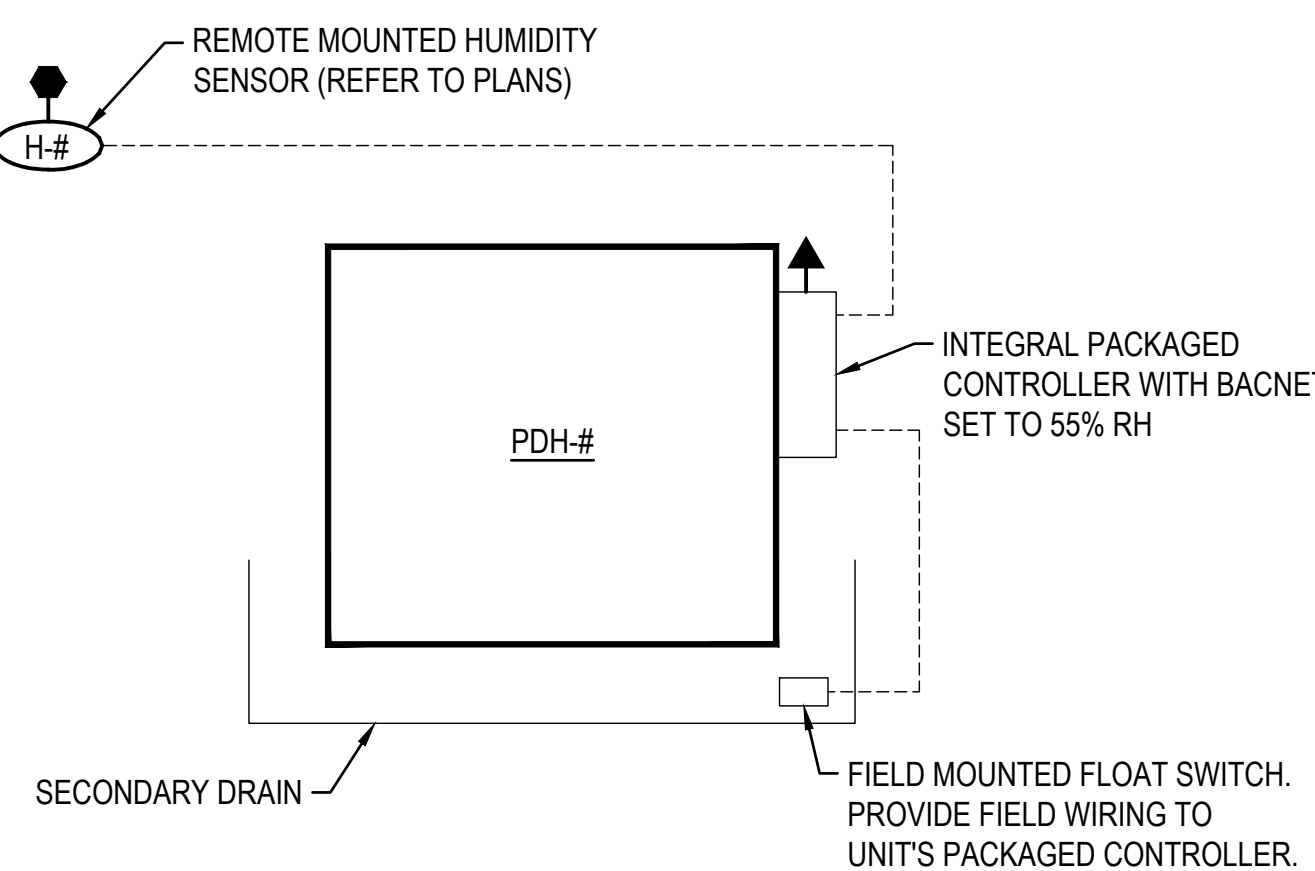
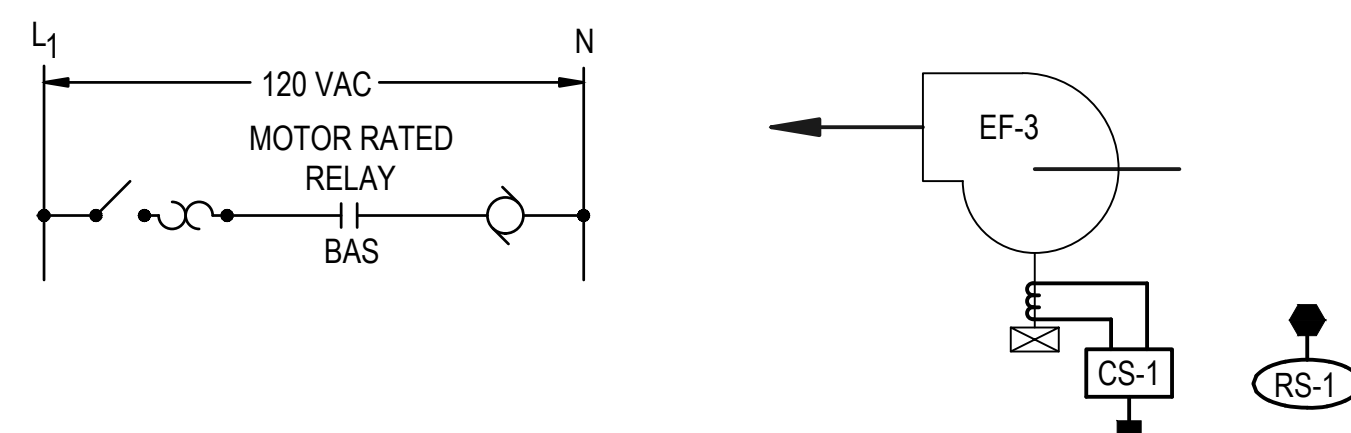
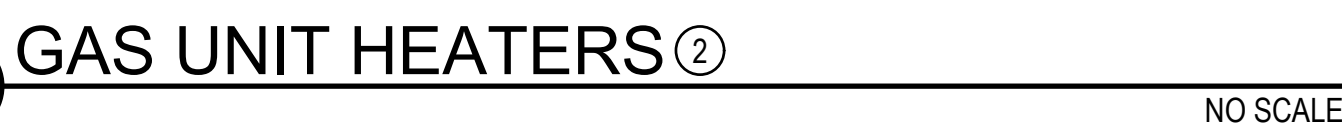
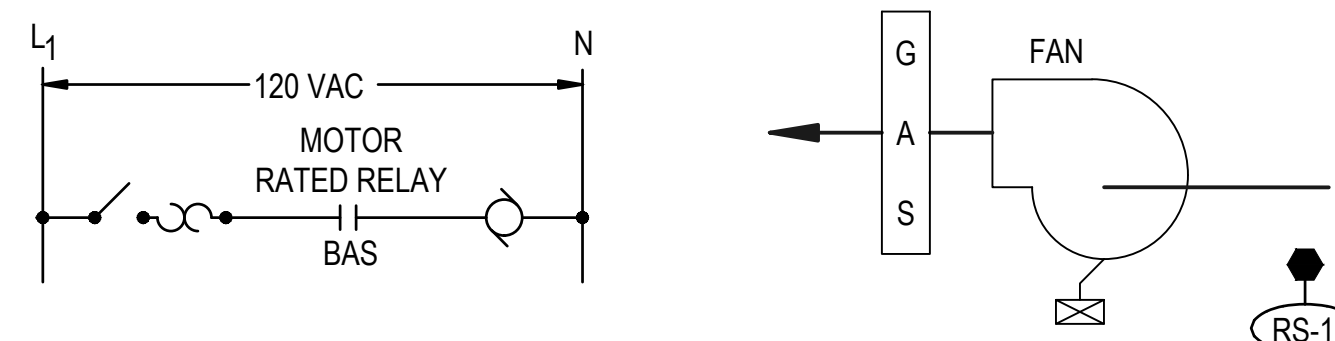
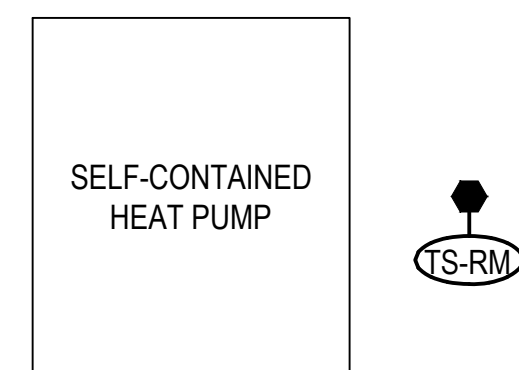
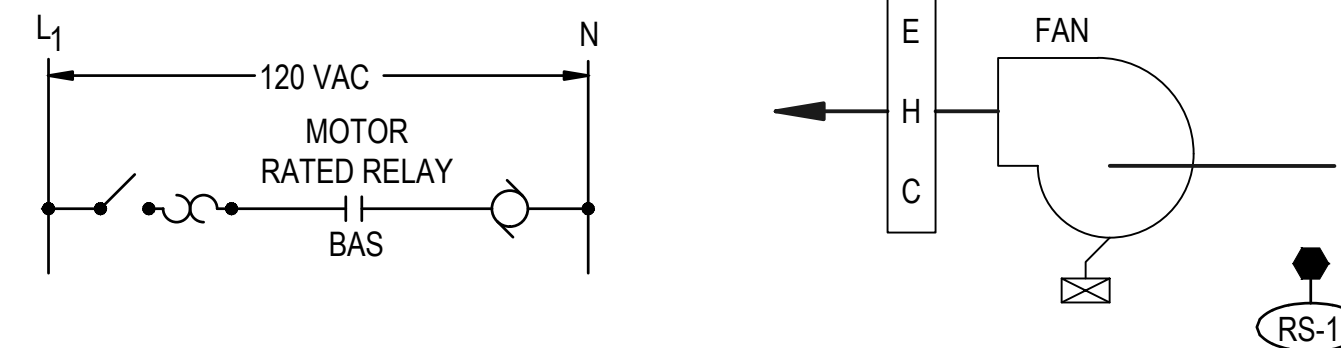
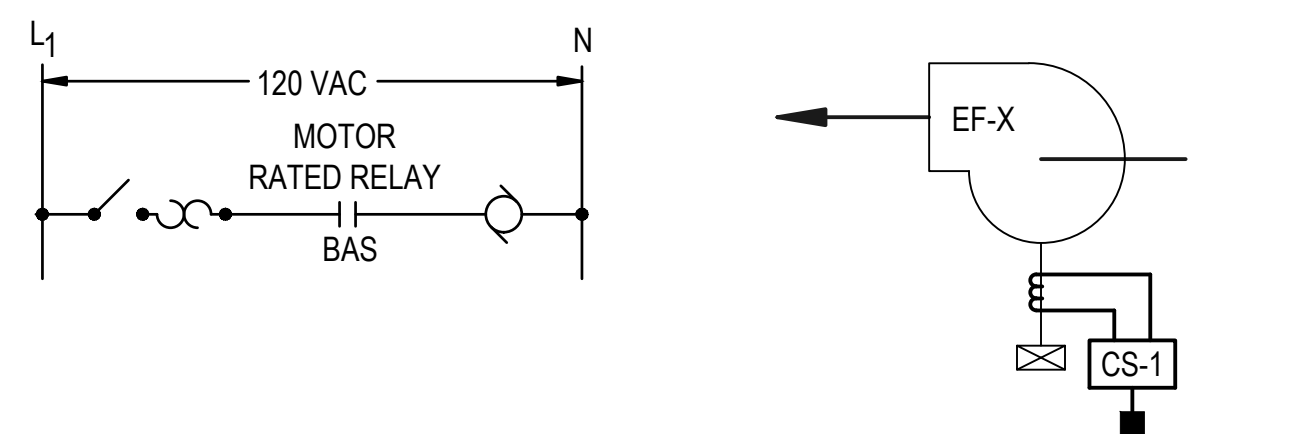
Dwn.By: JHC

Proj.No.: 0586B053.B01

SCHEDULES

Dwg.No.

M-601



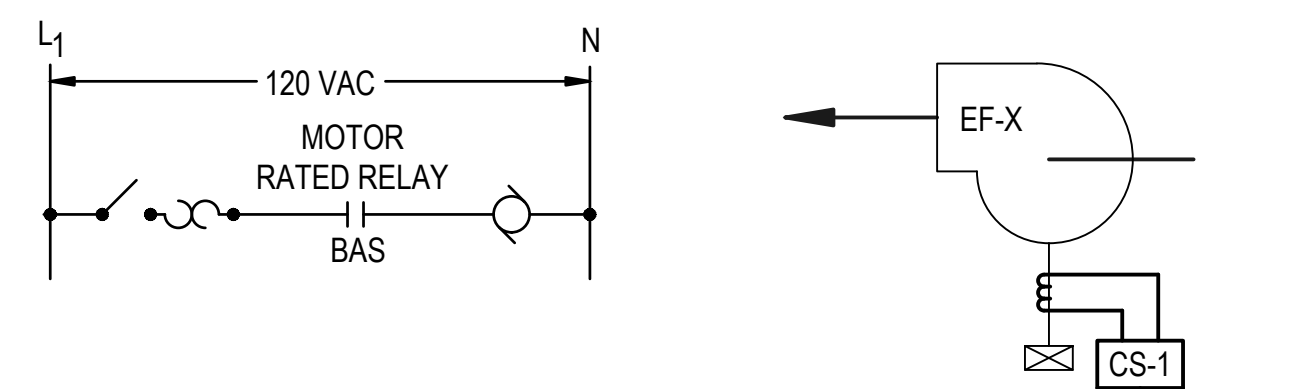
1. PROVIDE THE FOLLOWING AUTOMATIC ALARM AT OWS EVERY MARCH 1ST AND SEPTEMBER 1ST: "IN CONFORMANCE WITH THE LOCAL BUILDING CODES AND IN ORDER TO SAVE ENERGY, BUILDING SENSORS MUST BE CALIBRATED AT REGULAR INTERVALS. OUTSIDE AIR, DUCT, AND UNIT-MOUNTED TEMPERATURE, HUMIDITY, AND ENTHALPY SENSORS SHOULD BE CALIBRATED ANNUALLY.
2. PROVIDE A BUILDING CONTROLLER FOR THE HI-GRADE EVIDENCE STORAGE FACILITY. ALL CONTROLS SHALL BE NETWORKED INTO THE ADJACENT BUILDING'S FRONT-END BUILDING AUTOMATION SYSTEM. THE ADJACENT BUILDING'S AUTOMATION SYSTEM IS AUTOMATED LOGIC.
3. PROVIDE ALL NECESSARY UPGRADE/EXPANSION NECESSARY TO INTEGRATE THE EXPANDED BAS CONTROL SYSTEM FOR THE NEW EVIDENCE STORAGE BUILDING INTO THE EXISTING FRONT-END BUILDING AUTOMATION SYSTEM IN THE ADJACENT HI-GRADE BUILDING, INCLUDING ANY NETWORK INFRASTRUCTURE REQUIRED WITHIN THE EXISTING HI-GRADE BUILDING NETWORK CONTROL PANEL LOCATED IN IT ROOM 127, PIP OTA IP65/IPX6 NETWORK WIRELESS BRIDGE, MOUNTING HARDWARE, POE WIRING, AND OTHER NECESSARY APPURTENANCES. VERIFY ALL PORT CAPACITY WITHIN THE EXISTING ALC BAS NETWORK CONTROL PANEL PRIOR TO BID AND PROVIDE LOCAL NETWORK SWITCH IF REQUIRED.

- PROVIDE A BUILDING CONTROLLER FOR THE HI-GRADE EVIDENCE STORAGE FACILITY. ALL CONTROLS SHALL BE NETWORKED INTO THE ADJACENT BUILDING'S FRONT-END BUILDING AUTOMATION SYSTEM. THE ADJACENT BUILDING'S AUTOMATION SYSTEM IS AUTOMATED LOGIC.

3. PROVIDE ALL NECESSARY UPGRADE/EXPANSION NECESSARY TO INTEGRATE THE EXPANDED BAS CONTROL SYSTEM FOR THE NEW EVIDENCE STORAGE BUILDING INTO THE EXISTING FRONT-END BUILDING AUTOMATION SYSTEM IN THE ADJACENT HI-GRADE BUILDING, INCLUDING ANY NETWORK INFRASTRUCTURE REQUIRED WITHIN THE EXISTING HI-GRADE BUILDING NETWORK CONTROL PANEL LOCATED IN IT ROOM 127, PIP OTA IP65/IPX6 NETWORK WIRELESS BRIDGE, MOUNTING HARDWARE, POE WIRING, AND OTHER NECESSARY APPURTENANCES. VERIFY ALL PORT CAPACITY WITHIN THE EXISTING ALC BAS NETWORK CONTROL PANEL PRIOR TO BID AND PROVIDE LOCAL NETWORK SWITCH IF REQUIRED.



AI	ANALOG INPUT
AO	ANALOG OUTPUT
BI	BINARY INPUT
BO	BINARY OUTPUT
CLG	COOLING
COV	CHANGE OF VALUE
Cx	COMMISSIONING
HTG	HEATING
I/O	INPUT/OUTPUT
NVI	NETWORK VARIABLE INPUT
NVO	NETWORK VARIABLE OUTPUT
SP	SETPOINT
	HAND-OFF-AUTO SWITCH
	MOTOR
	NORMALLY OPEN CONTACTS
	NORMALLY CLOSED CONTACTS
	RELAY COIL
	STARTER HOLDING COIL
	THERMAL MOTOR SWITCH
	PNEUMATIC TUBING
	EXISTING PNEUMATIC TUBING
	MOTOR STARTER



dbf
DAVIS
BOWEN &
FRIEDEL, INC.
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HI-GRADE - EVIDENCE STORAGE BLDG.
17257 S DUPONT HWY, HARRINGTON, DE 19952
OMB/DFM PROJECT NO: MJ4506000006

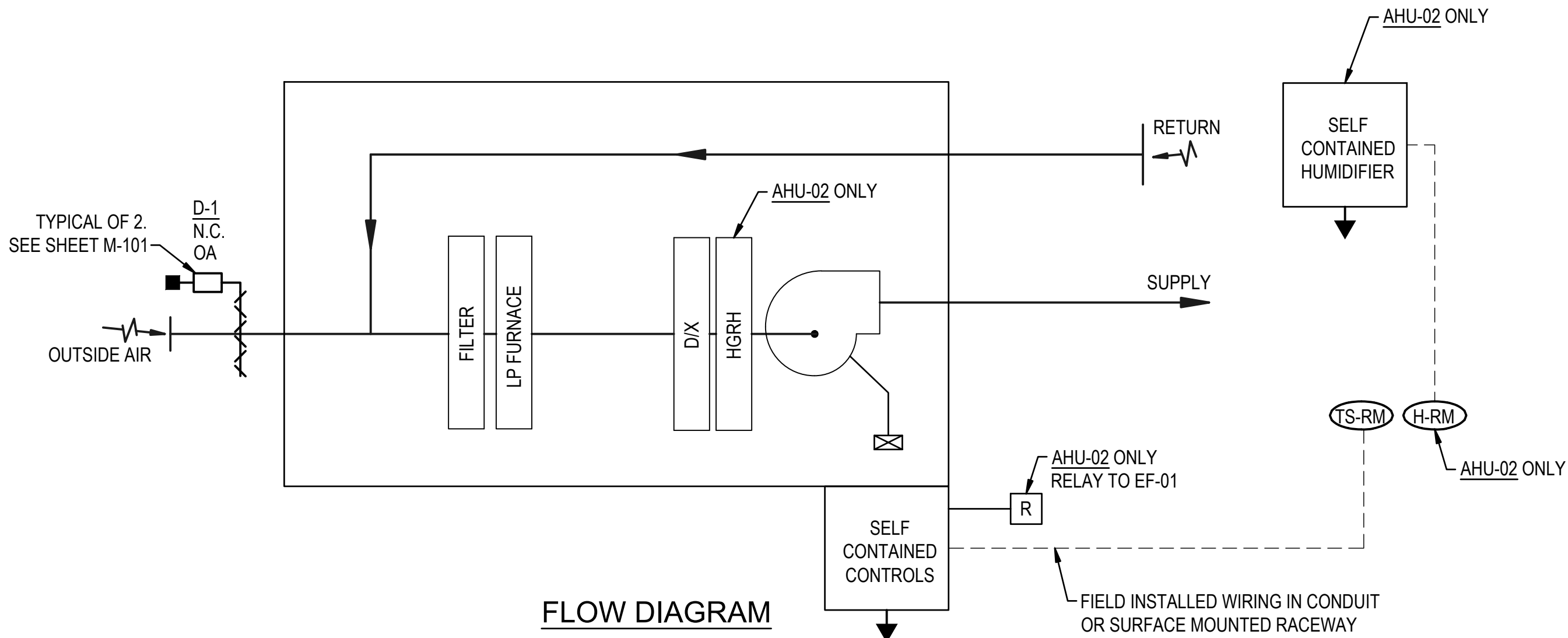
	DATE	COMMENTS
	2/13/25	1500% DESIGN SUBMISSION
	8/14/25	60% DESIGN SUBMISSION
	10/07/25	FIRE MARSHAL SUBMISSION
	2/26/26	99% DESIGN SUBMISSION
	6/25/26	BID SET
1	8/10/26	ADDENDUM 3

Date:	JULY 2026
Scale:	AS NOTED
Dwn.By:	JHG
Proj.No.:	0586B053.B01

CONTROLS

Dwg.No.

M-701



FLOW DIAGRAM

OCCUPIED/UNOCCUPIED CYCLE: THE OCCUPIED OR UNOCCUPIED CYCLE SHALL BE SELECTED BY THE UNIT'S SELF-CONTAINED CONTROLLER'S TIME CLOCK FUNCTION.

OCCUPIED CYCLE: THE UNIT SHALL START THROUGH THE PACKAGED CONTROLS. D-1 SHALL OPEN.

FOR AHU-02 ONLY: SYSTEM SHALL BE SET UP TO RUN 24/7/365 UNLESS MANUALLY CHANGED TO "UNOCCUPIED MODE" AT THE BAS. THE SPACE SETPOINT SHALL BE 75-DEGREES °F.

UNOCCUPIED CYCLE: THE UNIT SHALL CYCLE TO MAINTAIN SPACE TEMPERATURE AS SENSED BY THE SPACE TEMPERATURE SENSOR, TS-RM.

PREOCCUPANCY CYCLE: THE UNIT SHALL RUN AND OUTSIDE AIR DAMPER SHALL BE CLOSED.

SUPPLY AIR TEMPERATURE: AIR TEMPERATURE LEAVING D/X COIL SHALL BE 55°F (ADJ.). ON A FALL IN SPACE TEMPERATURE BELOW SETPOINT, THE AIR TEMPERATURE LEAVING THE D/X COIL SHALL BE INCREASED THROUGH THE PACKAGED CONTROLS TO MAINTAIN SETPOINT, ON A FURTHER FALL IN SPACE TEMPERATURE BELOW SETPOINT, THE PACKAGED CONTROLS SHALL STAGE THE NATURAL GAS HEATING ELEMENT. MAXIMUM SUPPLY AIR TEMPERATURE SHALL BE 90-DEGREES F. ON A RISE IN SPACE TEMPERATURE ABOVE SETPOINT THE REVERSE SHALL OCCUR.

FOR AHU-02 ONLY: THE SELF CONTAINED HUMIDIFIER SHALL MAINTAIN THE SPACE HUMIDITY SETPOINT ABOVE 35% RELATIVE HUMIDITY. UPON A FALL IN SPACE RELATIVE HUMIDITY BELOW 35% AS SENSED BY THE SPACE HUMIDITY SENSOR, H-RM, THE SELF CONTAINED UNIT SHALL PROVIDE HUMIDITY TO THE SPACE. UPON A RISE IN SPACE RELATIVE HUMIDITY TO 40% OR ABOVE, THE HUMIDIFIER SHALL BE OFF.

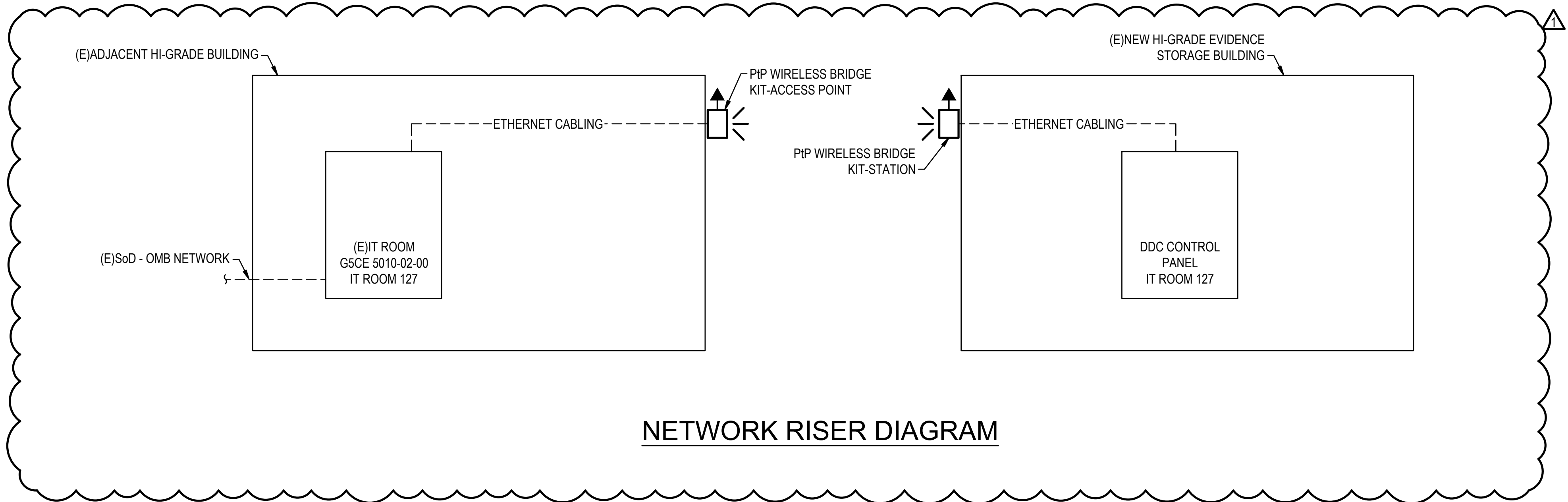
UNIT SAFETIES

FREEZESTAT FZ-1, SET AT 38°F, SHALL STOP THE UNIT FAN THROUGH A HARDWIRE INTERLOCK AND INDICATE AN ALARM AT THE BAS.

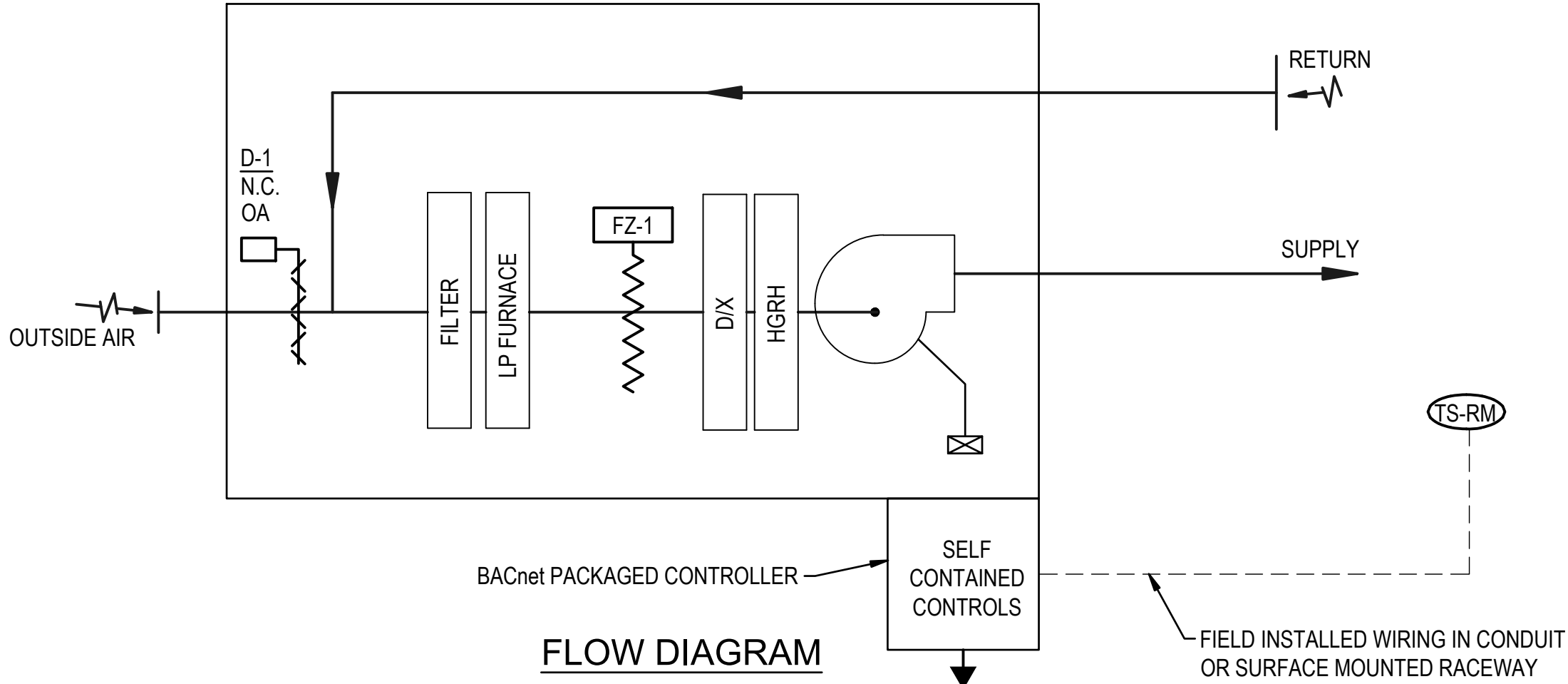
RESET: ALL PROTECTION CONTROLS SHALL REQUIRE LOCAL MANUAL RESET BEFORE THE UNIT FANS CAN BE RESTARTED AFTER THE DEVICES TRIP. UPON A RISE IN SPACE HUMIDITY ABOVE 60%, AN ALARM SHALL BE INDICATED AT THE OWS.

SEQUENCE OF OPERATIONS

AHU-02 & 03 ②



NETWORK RISER DIAGRAM



FLOW DIAGRAM

OCCUPIED/UNOCCUPIED CYCLE: THE OCCUPIED OR UNOCCUPIED CYCLE SHALL BE SELECTED BY THE UNIT'S SELF-CONTAINED CONTROLLER'S TIME CLOCK FUNCTION.

OCCUPIED CYCLE: THE UNIT SHALL START THROUGH THE PACKAGED CONTROLS. D-1 SHALL OPEN.

UNOCCUPIED CYCLE: THE UNIT SHALL CYCLE TO MAINTAIN SPACE TEMPERATURE AS SENSED BY THE SPACE TEMPERATURE SENSOR, TS-RM.

PREOCCUPANCY CYCLE: THE UNIT SHALL RUN AND OUTSIDE AIR DAMPER SHALL BE CLOSED.

SUPPLY AIR TEMPERATURE: AIR TEMPERATURE LEAVING D/X COIL SHALL BE 55°F (ADJ.). ON A FALL IN SPACE TEMPERATURE BELOW SETPOINT, THE AIR TEMPERATURE LEAVING THE D/X COIL SHALL BE INCREASED THROUGH THE PACKAGED CONTROLS TO MAINTAIN SETPOINT, ON A FURTHER FALL IN SPACE TEMPERATURE BELOW SETPOINT, THE PACKAGED CONTROLS SHALL STAGE THE NATURAL GAS HEATING ELEMENT. MAXIMUM SUPPLY AIR TEMPERATURE SHALL BE 90-DEGREES F. ON A RISE IN SPACE TEMPERATURE ABOVE SETPOINT THE REVERSE SHALL OCCUR.

UNIT SAFETIES

FREEZESTAT FZ-1, SET AT 38°F, SHALL STOP THE UNIT FAN THROUGH A HARDWIRE INTERLOCK AND INDICATE AN ALARM AT THE BAS.

RESET: ALL PROTECTION CONTROLS SHALL REQUIRE LOCAL MANUAL RESET BEFORE THE UNIT FANS CAN BE RESTARTED AFTER THE DEVICES TRIP.

SEQUENCE OF OPERATIONS

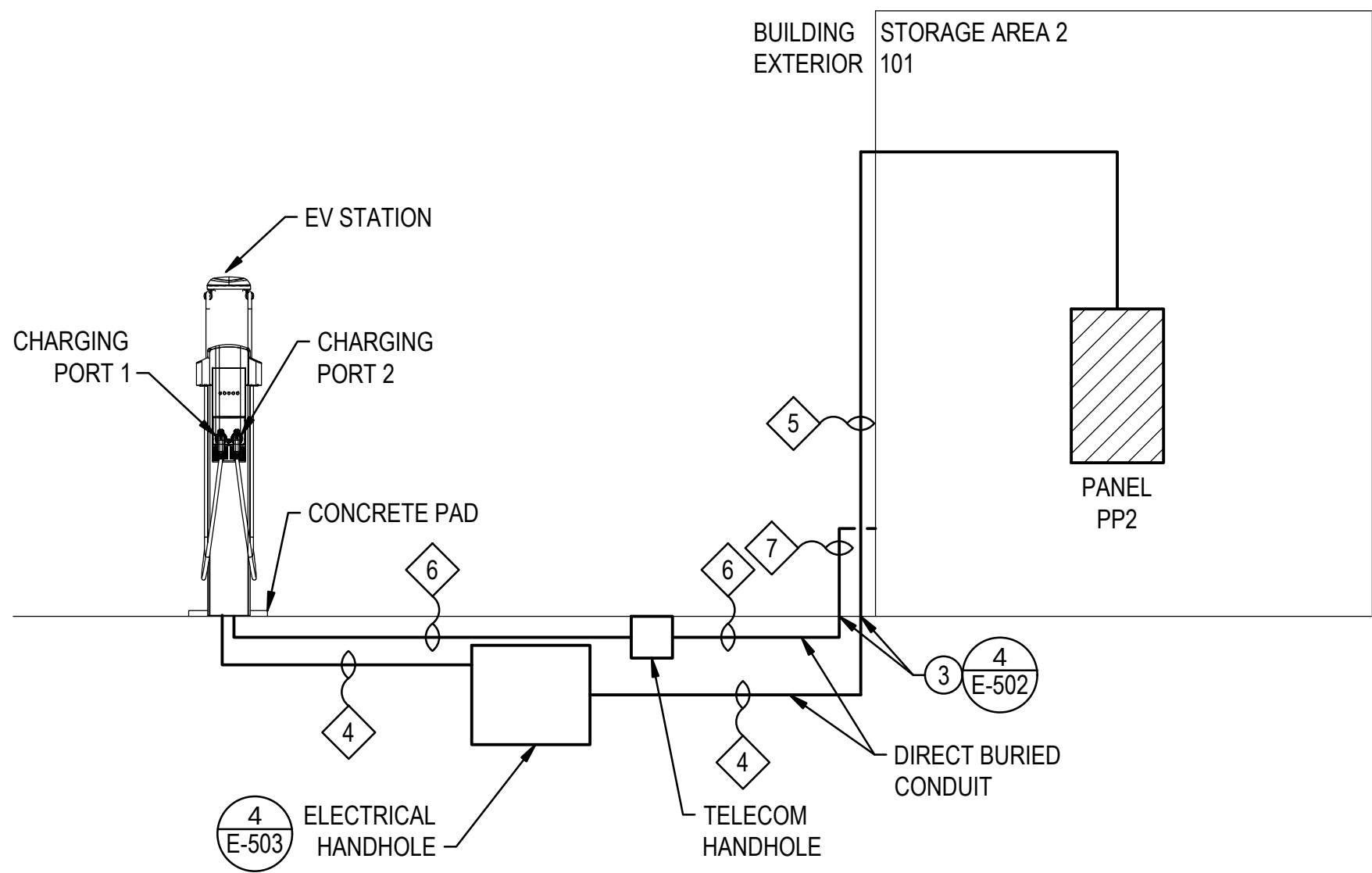
AHU-01 ②

DATE	COMMENTS
2/13/25	150% DESIGN SUBMISSION
8/14/25	80% DESIGN SUBMISSION
10/07/25	FIRE MARSHAL SUBMISSION
2/28/26	90% DESIGN SUBMISSION
6/25/26	BID SET
8/10/26	ADDENDUM 3

Date:	JULY 2026
Scale:	AS NOTED
Dwn.By:	JHG
Proj.No.:	0586B053.B01

CONTROLS

Dwg.No.:
M-702



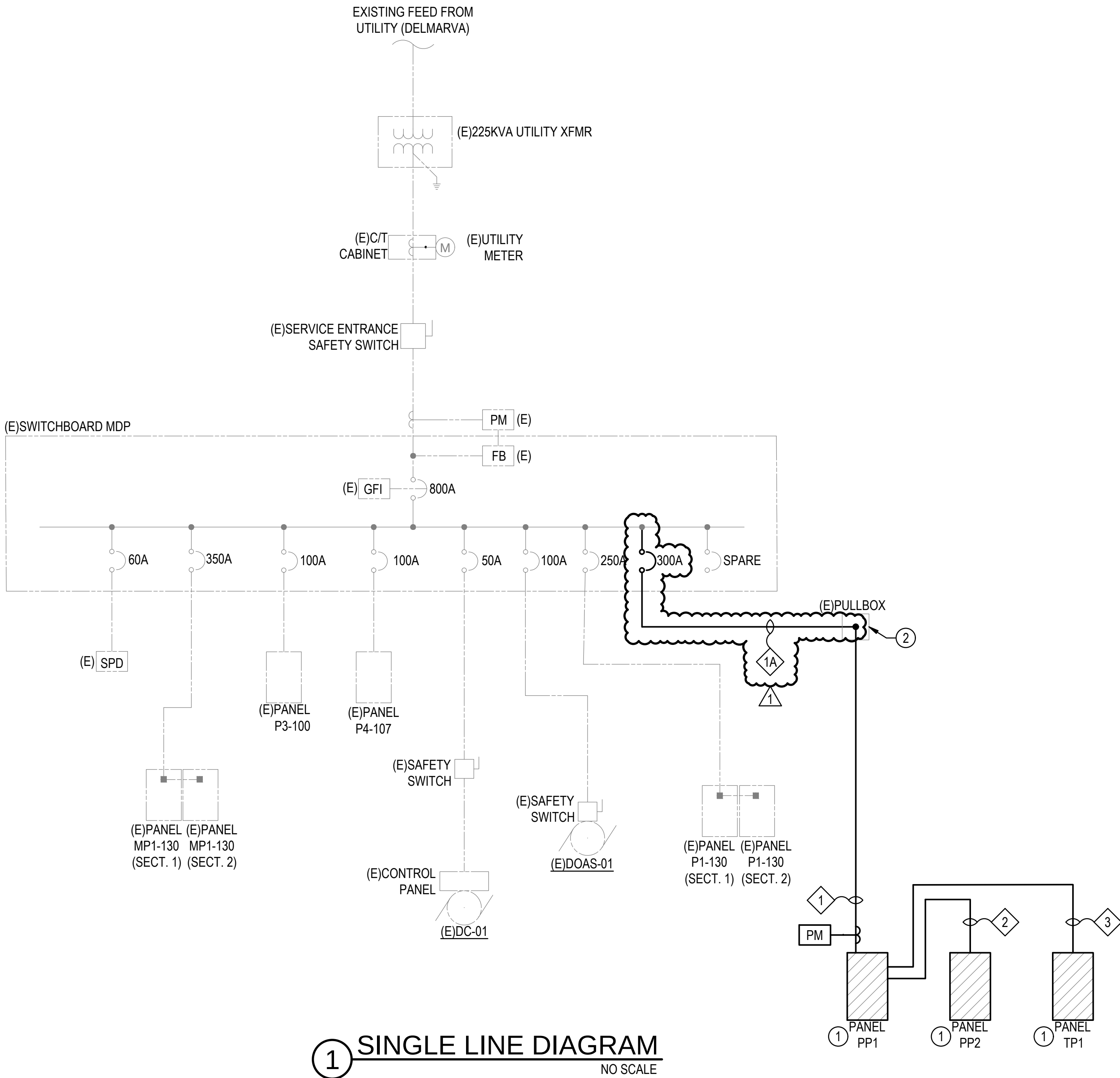
FEEDER SCHEDULE							
TAG	SET(S)	QUANTITY	SIZE	GROUND	CONDUIT(S)		REMARKS
					SIZE	TYPE	
1	1	4	350 MCM	#2	3"	PVC	
1A	1	4	350 MCM	#2	3"	(E)PVC	EXISTING CONDUIT
2	1	4	#1/0 AWG	#6	1-1/2"	EMT	
3	1	4	#1 AWG	#8	1-1/4"	EMT	
4	1	4	#6 AWG	#10	1-1/2"	PVC	
5	1	4	#6 AWG	#10	1-1/2"	RGS	
6	-	-	-	-	1"	PVC	PROVIDE PULLSTRING FOR TELECOM CABLING
7	-	-	-	-	1"	RGS	PROVIDE PULLSTRING FOR TELECOM CABLING

GENERAL NOTES

- G1. ALL WORK SHALL BE NEW AND PROVIDED UNDER THIS CONTRACT UNLESS SPECIFICALLY MARKED "EXISTING", "EXIST", OR "E".
- G2. VERIFY LOCATION AND DIMENSIONS OF EXISTING EQUIPMENT AND COORDINATE ALL WORK PRIOR TO THE START OF CONSTRUCTION.

NOTES

1. REFER TO PANEL SCHEDULES FOR PANELBOARD RATINGS, ELECTRICAL CHARACTERISTICS, AND ASSOCIATED LOADS.
2. CONDUIT AND PULLBOX WORK FURNISHED UNDER SEPARATE CONTRACT.
3. TRANSITION TO RGS AT GRADE.



DATE	COMMENTS
2/1/25	150% DESIGN SUBMISSION
8/1/25	80% DESIGN SUBMISSION
10/7/25	FIRE MARSHAL SUBMISSION
2/28/26	80% DESIGN SUBMISSION
6/25/26	BD SET
7/27/26	ADDENDUM 2
8/10/26	ADDENDUM 3

Date:	JULY 2026
Scale:	AS NOTED
Dwn.By:	JHS
Proj.No.:	0586B053.B01

SINGLE LINE

Dwg.No.:
E-501

1	2	3	4	5	6	7	8	9	10
O									
N									
M									
L									
K									
J									
I									
H									
G									

MOTOR AND EQUIPMENT SCHEDULE															
EQUIPMENT NAME	HP	KW	RATED VOLT.	PHASE	FLA	MOTOR CONTROLLER 2		FEEDER			LOCAL SWITCH			REMARKS	
						TYPE	LOCAL CONTROL	WIRE		CONDUIT	TYPE 1	FRAME SIZE	POLES		
								NO.	SIZE						GRD.
HP-01			200	1Ø	9.3	SEE MECHANICAL		2	#12	#12	3/4"	NFSS	30	2	
HPU-01			200	1Ø	0.3	SEE MECHANICAL		2	#12	#12	3/4"	NFSS	30	2	NEMA 3R
EUH-01		3	200	1Ø	16.9	SEE MECHANICAL		2	#12	#12	3/4"	MRT	20	2	
EF-01			115	1Ø	4.1	SEE MECHANICAL		2	#12	#12	3/4"	MRT	20	1	
EF-02			115	1Ø	.46	SEE MECHANICAL		2	#12	#12	3/4"	MRT	20	1	
EF-03	1 1/2		200	3Ø	6.9	SEE MECHANICAL		3	#12	#12	3/4"	CMB	20	3	
AHU-01			200	3Ø	19.2	SEE MECHANICAL		3	#10	#10	3/4"	NFSS	30	3	
AHU-02			115	1Ø	6.6	SEE MECHANICAL		2	#12	#12	3/4"	MRT	30	1	
CU-02			200	1Ø	7.4	SEE MECHANICAL		2	#12	#12	3/4"	NFSS	30	2	NEMA 3R
AHU-03			115	1Ø	6.6	SEE MECHANICAL		2	#12	#12	3/4"	MRT	30	1	
CU-03			200	1Ø	7.4	SEE MECHANICAL		2	#12	#12	3/4"	NFSS	30	2	NEMA 3R
CP-01	1/6		115	1Ø	4.4	SEE MECHANICAL		2	#12	#12	3/4"	MRT	20	1	
UH-02			115	1Ø	1.9	SEE MECHANICAL		2	#12	#12	3/4"	MRT	20	1	
UH-03			115	1Ø	1.9	SEE MECHANICAL		2	#12	#12	3/4"	MRT	20	1	
UH-04			115	1Ø	1.9	SEE MECHANICAL		2	#12	#12	3/4"	MRT	20	1	
UH-05			115	1Ø	1.9	SEE MECHANICAL		2	#12	#12	3/4"	MRT	20	1	
BB-01		0.3	115	1Ø	2.5	SEE MECHANICAL		2	#12	#12	3/4"	MRT	20	1	
H-01			208	1Ø	18.0	SEE MECHANICAL		2	#10	#10	3/4"	MRT	30	1	
DWH-01			115	1Ø	4.0	SEE MECHANICAL		2	#12	#12	3/4"	MRT	20	1	
PDH-01			208	1Ø	11.0	SEE MECHANICAL		2	#12	#12	3/4"	CRD	-	2	
PDH-02			208	1Ø	11.0	SEE MECHANICAL		2	#12	#12	3/4"	CRD	-	2	
NOTES:															
1 MRT - MOTOR-RATED TOGGLE SWITCH NFSS - NON-FUSED SAFETY SWITCH CRD - CORD-AND-PLUG CMB - COMBINATION MOTOR STARTER/DISCONNECT INT - INTEGRAL WITH MOTOR CONTROLLER						2 SEE MECHANICAL DRAWINGS FOR AUXILIARY CONTACT REQUIREMENTS.									

LOAD TYPES: C = CONTINUOUS, R = RECEPTACLE, M = MOTOR, N = NON-CONTINUOUS

① PANEL 'PP1' SCHEDULE																				
MAIN BUS SIZE (AMPS):			400		INTERRUPT. RATING (KAIC):			10		NEUTRAL BUS SIZE:			100%		MOUNTING TYPE:			SURFACE		
MAIN BUS MATERIAL:			COPPER		VOLTAGE:			120 / 208		SECTION NO.:			1 OF 1		LOCATION:			STORAGE AREA 2 - 101		
MAIN CIRCUIT BREAKER (AMPS):			300		PHASE:		3		WIRE:		4		ENCLOSURE TYPE:			NEMA 3R		BOLT-ON BRANCH CIRCUIT BREAKERS		
CKT NO.	DESCRIPTION	LOAD TYPE	LOAD (KVA)	BREAKER AMPS	BREAKER POLES					BREAKER POLES	AMPS	LOAD (KVA)	LOAD TYPE		DESCRIPTION	CKT NO.				
1	EUH-01 ②	C	1.11	15	2	A				1	15	0.47	M		EF-01 ②	2				
3		C	1.11				B				1	20	0.00	N		SPARE	4			
5	H-01 ②	C	1.80	25	2					1	20	0.51	M		CP-01	6				
7		C	1.80			A				1	15	0.05	M		EF-02 ②	8				
9	AHU-01 ②	M	2.21	30	3							0.67	M			10				
11		M	2.21							2	20	0.67	M		CU-02 ②	12				
13		M	2.21			A						0.67	M			14				
15		C	13.95				B			2	20	0.67	M		CU-03 ②	16				
17	PANEL PP2	C	12.42	100	3							1.04	M			18				
19		C	8.92			A				3	20	1.04	M		OVERHEAD DOOR 101	20				
21	OVERHEAD DOOR 101	M	3.60	20	3							1.04	M			22				
23		M	3.60							2	50	4.10	R		SIMULATOR RECEPTACLE	24				
25		M	3.60			A					4.10	R				26				
27	UH-02 & 03 ②	C	0.44	15	1					1	20	1.13	M		AHU-03 ②	28				
29		M	1.04							1	20	0.44	C		UH-04, UH-05 ②	30				
31	OVERHEAD DOOR 100	M	1.04	20	3	A						0.80	M			32				
33		M	1.04							3	20	0.80	M		EF-03 ②	34				
35		C	1.27								0.80	M				36				
37	PANEL TP1	C	1.63	100	3	A				1	20	0.18	C		DWH-01 ②	38				
39		C	0.36							1	20	0.29	C		BB-01 ②	40				
41	AHU-02 ②	M	1.13	20	1					1	20	0.00	N		SPACE	42				
43	SPACE	N	0.00	20	1	A				1	20	0.00	N		SPACE	44				
45	SPACE	N	0.00	--	1					1	20	0.00	N		SPACE	46				
47	SPACE	N	0.00	--	1					1	--	0.00	N		SPACE	48				
49	SPACE	N	0.00	--	1	A					--	0.00	N		SPACE	50				
51	SPACE	N	0.00	--	1					1	--	0.00	N		SPACE	52				
53	SPACE	N	0.00	--	1					1	--	0.00	N		SPACE	54				
CONNECTED LOAD PER PHASE (KVA) =										28.7	27.3	31.0	TOTAL CONNECTED LOAD =					85.9 KVA	238.7 AMPS	
(AMPS) =										239.6	227.5	258.5						TOTAL DEMAND LOAD =		

① PANEL 'PP2' SCHEDULE																				
MAIN BUS SIZE (AMPS):			225		INTERRUPT. RATING (KAIC):			10		NEUTRAL BUS SIZE:			100%		MOUNTING TYPE:			SURFACE		
MAIN BUS MATERIAL:			COPPER		VOLTAGE:			120 / 208		SECTION NO.:			1 OF 1		LOCATION:			STORAGE AREA 2 - 101		
MAIN CIRCUIT BREAKER (AMPS):			150		PHASE:		3		WIRE:		4		ENCLOSURE TYPE:			NEMA 3R		BOLT-ON BRANCH CIRCUIT BREAKERS		
CKT NO.	DESCRIPTION	LOAD TYPE	LOAD (KVA)	BREAKER				BREAKER		LOAD		LOAD TYPE	DESCRIPTION		CKT NO.					
				AMPS	POLES			POLES	AMPS	(KVA)										
1	STOR. RM. 101,108 LTG.	C	0.66	20	1	A			1	20	0.50	C	STORAGE 101 LTG.	2						
3	MECH RM. 113 LTG.	C	0.12	20	1			B	1	20	0.07	C	IT RM. 104 LTG.	4						
5	OFFICE 107 LTG.	C	0.07	20	1				C	1	20	0.11	C	BATHROOM 106 LTG.	6					
7	STOR. RM. 107,110 LTG.	C	0.75	20	1	A			1	20	0.66	C	STORAGE 100 LTG.	8						
9	EXTERIOR LIGHTS	C	0.19	20	1			B	1	20	0.66	C	STORAGE 100 LTG.	10						
11	EXTERIOR LIGHTS	C	0.19	20	1				C	1	20	0.10	C	EXIT LIGHTING	12					
13	PDH-01	C	1.30	20	2	A			2	20	1.30	C	PDH-02	14						
15		C	1.30			B					1.30	C		16						
17	FIRE ALARM CTRL PANEL	N	0.18	20	1				C	1	20	0.18	N	DACT PANEL	18					
19	SPARE	N	0.00	20	1	A			1	50	4.10	R	SIMULATOR RECEPTACLE	20						
21	EXTERIOR REC.	R	0.36	20	1			B			4.10	R		22						
23	OFFICE 107 REC.	R	0.90	20	1				C	1	20	0.72	R	MECH. ROOM REC.	24					
25	GENERAL AREA REC.	R	0.72	20	1	A			1	20	0.72	R	GENERAL AREA REC.	26						
27	EV CHARGER - PORT 1	N	3.24	40	2			B	1	20	1.08	R	REST RM. 103 & AREA REC.	28						
29		N	3.24					C	2	20	3.24	N	EV CHARGER - PORT 2	30						
31	SPARE	N	0.00	20	1	A					3.24	N		32						
33	SPARE	N	0.00	20	1			B	1	20	0.00	N	SPARE	34						
35	SPARE	N	0.00	20	1				C	1	20	0.00	N	SPARE	36					
37	SPACE	N	0.00	--	1	A			1	--	0.00	N	SPACE	38						
39	SPACE	N	0.00	--	1			B	1	--	0.00	N	SPACE	40						
41	SPACE	N	0.00	--	1				C	1	--	0.00	N	SPACE	42					
CONNECTED LOAD PER PHASE (kVA) =										13.9	12.4	8.9	TOTAL CONNECTED LOAD =		35.3 KVA	98.0 AMPS				
(AMPS) =										116.2	103.5	74.4	TOTAL DEMAND LOAD =		36.3 KVA	100.7 AMPS				
LOAD TYPES: C = CONTINUOUS, R = RECEPTACLE, M = MOTOR, N = NON-CONTINUOUS																				

1. WORK FURNISHED UNDER SEPARATE CONTRACT.
2. PROVIDE (1) 3" DIRECT-BURIED PVC CONDUIT FROM PULLBOX TO EVIDENCE STORAGE BUILDING. FIELD ROUTE CONDUITS AT 30" BELOW GRADE.
3. PROVIDE 12"X12"X12" TIER 8 HANDHOLE FOR TELECOM CONNECTIONS.
4. PROVIDE EXTERIOR RATED POINT-TO-POINT BAS WIRELESS ACCESS POINT AND STATION MOUNTED ON EXTERIOR WALLS OF ADJACENT BUILDINGS. ACCESS POINT SHALL HAVE LINE-OF-SITE. REFER TO M-101 AND M-702 FOR ADDITIONAL DETAILS.

dbf **DAVIS BOWEN & FRIEDEL, INC.**
ARCHITECTS • ENGINEERS • SURVEYORS

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BALTIMORE, MARYLAND 410.543.9091

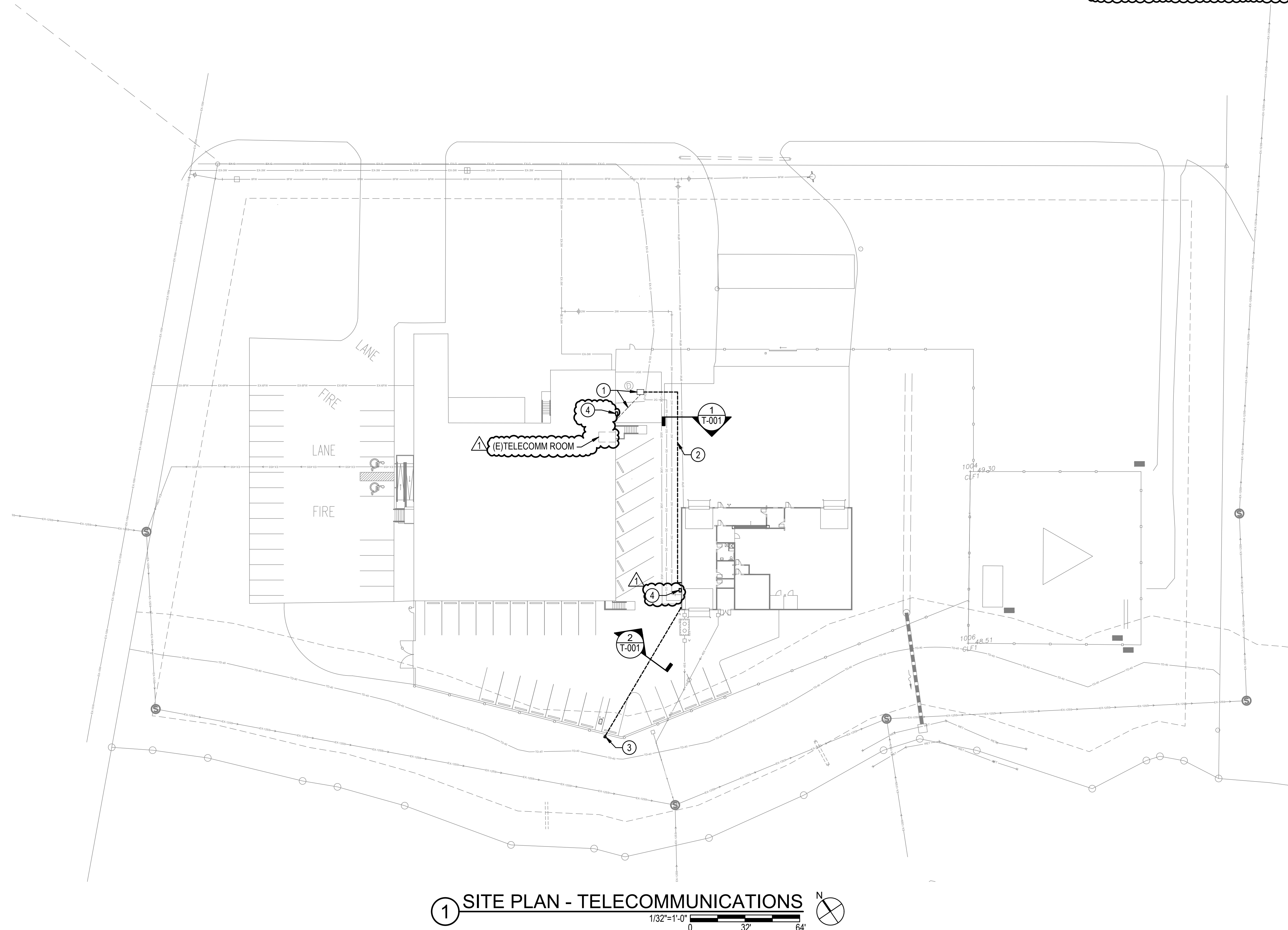
HI-GRADE - EVIDENCE STORAGE BLDG.
17257 S DUPONT HWY, HARRINGTON, DE 19952
OMB/DFM PROJECT NO: MJ4506000006

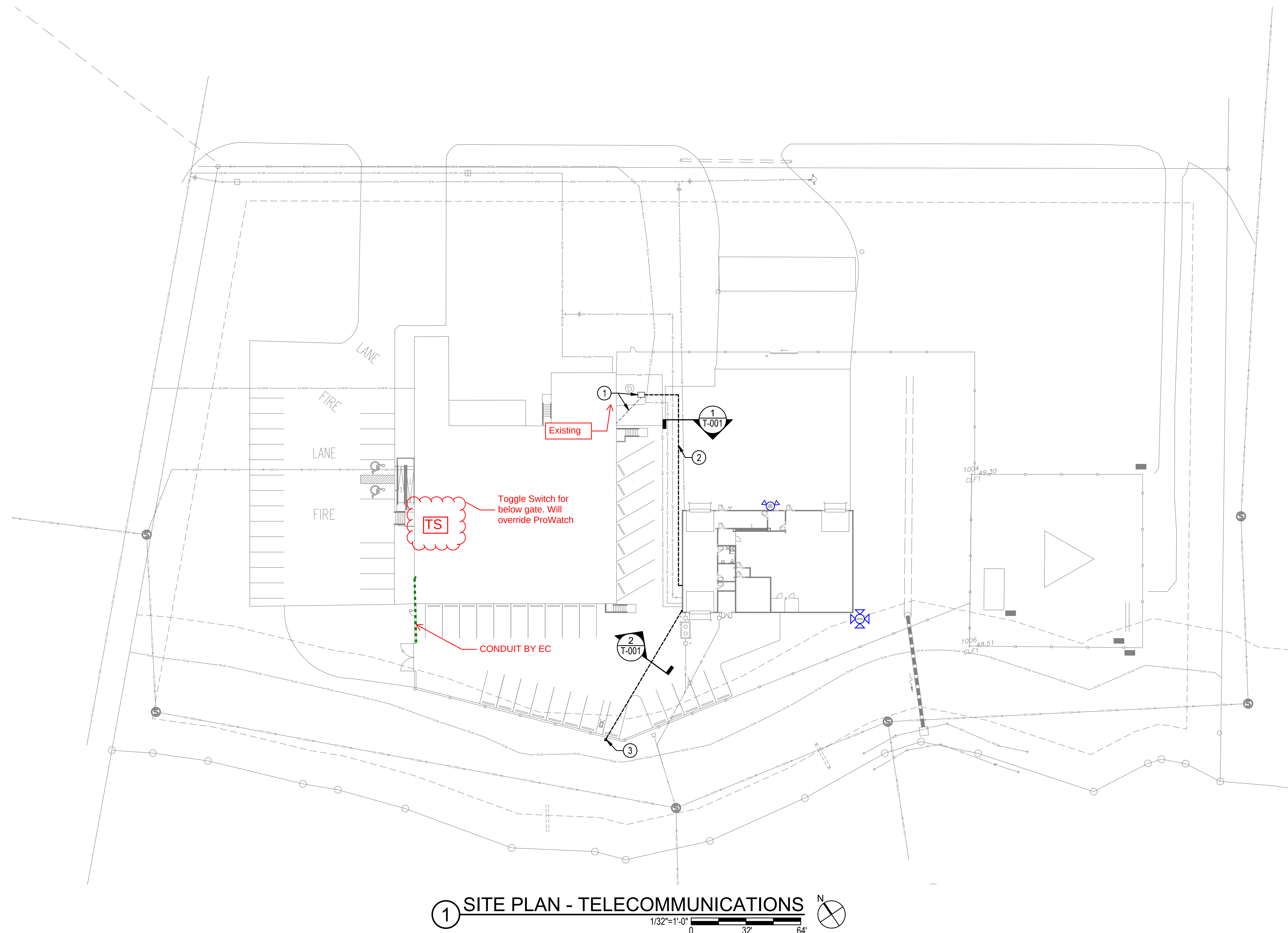
	DATE	COMMENTS
	2/13/25	150% DESIGN SUBMISSION
	8/14/25	60% DESIGN SUBMISSION
	10/07/25	FIRE MARSHAL SUBMISSION
	2/26/26	80% DESIGN SUBMISSION
	6/25/26	BID SET
1	8/10/26	ADDENDUM 3

Date:	JULY 2026
Scale:	AS NOTED
Dwn.By:	EMP
Proj.No.:	0586B053.B01

SITE PLAN -
TELECOMM

Dwg.No.:
TS101



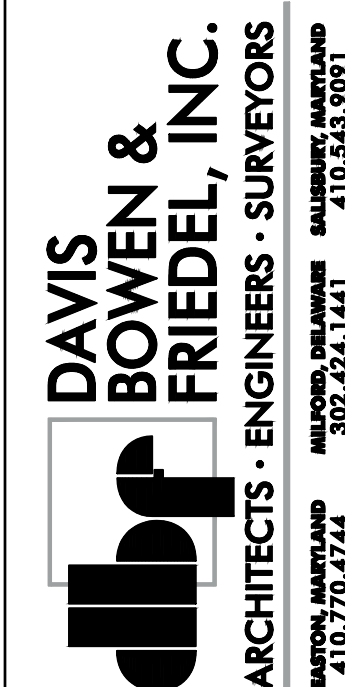


GENERAL NOTES

- G1. ALL WORK SHALL BE NEW AND PROVIDED UNDER THIS CONTRACT UNLESS SPECIFICALLY MARKED "EXISTING", "EXIST", OR "(E)".
- G2. VERIFY LOCATION AND DIMENSIONS OF EXISTING EQUIPMENT AND COORDINATE ALL WORK PRIOR TO THE START OF CONSTRUCTION.

NOTES

1. WORK FURNISHED UNDER SEPARATE CONTRACT.
2. PROVIDE (1) 3" DIRECT-BURIED PVC CONDUIT FROM PULLBOX TO EVIDENCE STORAGE BUILDING. FIELD ROUTE CONDUITS AT 30" BELOW GRADE.
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HI-GRADE - EVIDENCE STORAGE BLDG.
17257 S DUPONT HWY, HARRINGTON, DE 19952
OMB/DFM PROJECT NO: MJ4506000006

	DATE	COMMENTS
	2/13/25	150% DESIGN SUBMISSION
	8/14/25	60% DESIGN SUBMISSION
	10/3/25	PRE-MARSHAL SUBMISSION
	2/26/26	99% DESIGN SUBMISSION
	6/25/26	BID SET

Date: JULY 2026

Scale: AS NOTED

Dwn.By: EMP

Proj.No.:	0586B053.B01
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SITE PLAN -
TELECOMM

Dwg.No.:

TS101A

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GENERAL NOTES

- G1. ALL WORK SHALL BE NEW AND PROVIDED UNDER THIS CONTRACT UNLESS SPECIFICALLY MARKED "EXISTING", "EXIST", OR "E".
- G2. VERIFY LOCATION AND DIMENSIONS OF EXISTING EQUIPMENT AND COORDINATE ALL WORK PRIOR TO THE START OF CONSTRUCTION.

DAVIS
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FRIEDEL, INC.

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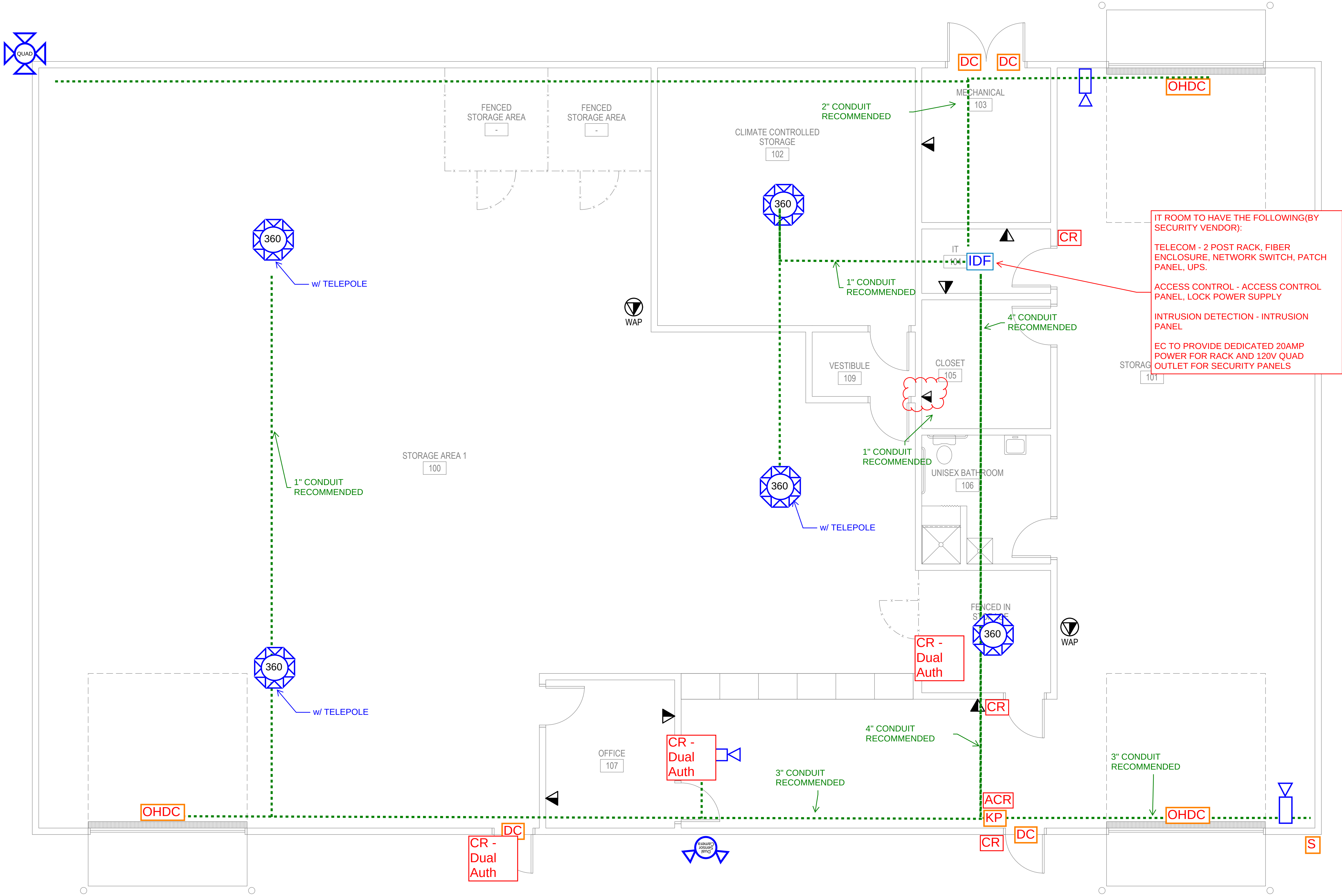
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DATE	COMMENTS
2/1/25	150% DESIGN SUBMISSION
8/14/25	80% DESIGN SUBMISSION
10/07/25	FIRE MARSHAL SUBMISSION
2/28/26	80% DESIGN SUBMISSION
6/25/26	BD SET

Date:	JULY 2026
Scale:	AS NOTED
Dwn.By:	EMP
Proj.No.:	0586B053.B01

FIRST FLOOR
PLAN -
TELECOMM

Dwg No.:
T-101A



1 FIRST FLOOR PLAN - TELECOMMUNICATIONS

1/4"=1'-0"

0 4 8

N