

INDEX OF DRAWINGS	
C-100	COVER SHEET
M-100	BROOKENS POD 100 HVAC ROOF PLAN
M-101	BROOKENS POD 200 HVAC ROOF PLAN
M-102	BROOKENS POD 300 HVAC ROOF PLAN
M-103	BROOKENS POD 400 HVAC ROOF PLAN
M-104	JUVENILE DETENTION CENTER HVAC ROOF PLAN
M-105	CHAMPAIGN COUNTY COURTHOUSE HVAC ROOF PLAN
M-106	METCAD HVAC ROOF PLAN
M-200	SCHEDULES - HVAC



DATE	NO.	DESCRIPTION

ENGINEERS AND ASSOCIATES, INC.
Mechanical & Electrical Consulting Engineers
1615 South Neil Street, Champaign, Illinois 61820
217-356-0536 Business - 217-356-1092 Fax

COVER SHEET

HAIL DAMAGED HVAC REPLACEMENT

CHAMPAIGN COUNTY
1776 E WASHINGTON STREET, URBANA IL 61802

SEAL

DRAWN:	JMD	APPROVED:	RCVN
DATE:	MAY 05, 2021		
	ISSUED FOR BID		
PROJECT:	GHR # 7321		

SHEET:

C-100

FILE: H:\GHR Projects\7321 - Champaign County Administrative Services - Brookens - Hail Damage\HVAC\01 - Worksheets\7321 - M-100.dwg
PRINTED: 05/04/2021

①③⑤⑩ POD 100 RTU-5

①③⑤⑥ POD 100 RTU-1

①③⑤⑦ POD 100 RTU-2



POD 100 RTU-7 ①③⑤②

POD 100 RTU-6 ①③⑤⑪

POD 100 RTU-4 ①③⑤⑨

POD 100 RTU-3 ①③⑤⑧

POD 100 RTU-8 ②

POD 100 RTU-9 ①③④⑤⑬

POD 100 RTU-10 ①③④⑤⑭

GENERAL NOTES

1. FIELD SURVEY DUCT CONNECTIONS AND ALL ROOFTOP UNITS BEFORE SUBMITTING SHOP DRAWINGS.
2. CONTRACTOR SHALL RETAIN ANY DUCT-MOUNTED SMOKE DETECTORS AND AVOID TRIGGERING FALSE ALARM.
3. BOLT RTUS AND CURB ADAPTERS.
4. CONTRACTOR TO VERIFY GAS PRESSURE.
5. CONTRACTOR TO VERIFY VOLTAGE.

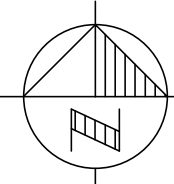
KEYED NOTES - (FOR THIS PLAN ONLY ① SYMBOL)

- ① REMOVE EXISTING RTU. DISCONNECT RA AND SA DUCTWORK. INSTALL NEW RTU ON ROOF CURB ADAPTER. ADAPTER TO BE SIZED TO MOUNT NEW RTU ON EXISTING CURB. CONTRACTOR TO VERIFY ALL DUCTWORK AND ADAPTER MEASUREMENTS. INSTALL HAIL GUARD.
- ② RTU-8 TO REMAIN. INSTALL HAIL GUARD. PROVIDE AND INSTALL CLEAN FILTERS. WRAP ALL NEW SUPPLY DUCT. LINE ALL NEW RETURN AIR DUCT.
- ③ MODIFY SA AND RA DUCTWRK AS NEEDED TO CONNECT TO NEW UNIT.
- ④ DISCONNECT EXISTING UNIT FROM GAS PIPING. MODIFY PIPING AS NEEDED TO CONNECT TO NEW UNIT.
- ⑤ EXISTING UNIT CONTROLLED BY STAND-ALONE CONTROLS SYSTEM. CONTRACTOR TO REMOVE EXISTING WALL MOUNTED THERMOSTAT. INSTALL NEW WALL MOUNTED CONTROLS AND WIRE TO NEW UNIT.
- ⑥ E.C. TO DISCONNECT EXISTING RTU-1 FOR REMOVAL BY OTHERS. PRESERVE WIRING FOR REUSE. E.C. TO REMOVE 3P-100A CIRCUIT BREAKER SERVING EXISTING RTU-1 IN PANEL 'M' AND REPLACE WITH 3P-80A CIRCUIT BREAKER. INTERCEPT AND EXTEND EXISTING CIRCUIT TO NEW RTU-1 AND MAKE FINAL CONNECTION.
- ⑦ E.C. TO DISCONNECT EXISTING RTU-2 FOR REMOVAL BY OTHERS. PRESERVE WIRING FOR REUSE. E.C. TO REMOVE 3P-80A CIRCUIT BREAKER SERVING EXISTING RTU-2 FROM UNNAMED PANEL AND REPLACE WITH 3P-60A CIRCUIT BREAKER. INTERCEPT AND EXTEND EXISTING CIRCUIT TO NEW RTU-2 AND MAKE FINAL CONNECTION.
- ⑧ E. C. TO DISCONNECT EXISTING RTU-3 FOR REMOVAL BY OTHERS. PRESERVE WIRING FOR REUSE. E.C. TO REMOVE 3P-40A CIRCUIT BREAKER SERVING EXISTING RTU-3 FROM UNNAMED PANEL AND REPLACE WITH 3P-35A CIRCUIT BREAKER. INTERCEPT AND EXTEND EXISTING CIRCUIT TO NEW RTU-3 AND MAKE FINAL CONNECTION.
- ⑨ E.C. TO DISCONNECT EXISTING RTU-4 FOR REMOVAL BY OTHERS. PRESERVE WIRING FOR REUSE. E.C. TO REMOVE 3P-50A CIRCUIT BREAKER SERVING EXISTING RTU-4 FROM UNNAMED PANEL AND REPLACE WITH 3P-40A CIRCUIT BREAKER. INTERCEPT AND EXTEND EXISTING CIRCUIT TO NEW RTU-4 AND MAKE FINAL CONNECTION.
- ⑩ E.C. TO DISCONNECT EXISTING RTU-5 FOR REMOVAL BY OTHERS. PRESERVE CIRCUIT FOR REUSE. PROVIDE NEW 3P-30A DISCONNECT SWITCH AT UNIT. INTERCEPT AND EXTEND EXISTING CIRCUIT TO NEW RTU-5 AND MAKE FINAL CONNECTION.
- ⑪ E.C. TO DISCONNECT EXISTING RTU-6 FOR REMOVAL BY OTHERS. PRESERVE WIRING FOR REUSE. E.C. TO REMOVE 3P-35A CIRCUIT BREAKER FROM PANEL 'M' SERVING EXISTING RTU-6 AND REPLACE WITH 3P-30A CIRCUIT BREAKER. PROVIDE NEW 3P-30A DISCONNECT SWITCH AT UNIT. INTERCEPT AND EXTEND EXISTING CIRCUIT TO NEW RTU-6 AND MAKE FINAL CONNECTION.
- ⑫ E.C. TO DISCONNECT EXISTING RTU-7 FOR REMOVAL BY OTHERS. PRESERVE WIRING FOR REUSE. E.C. TO REMOVE 3P-35A CIRCUIT BREAKER FROM PANEL 'M' SERVING EXISTING RTU-7 AND REPLACE WITH 3P-30A CIRCUIT BREAKER. PROVIDE NEW 3P-30A DISCONNECT SWITCH AT UNIT. INTERCEPT AND EXTEND EXISTING CIRCUIT TO NEW RTU-7 AND MAKE FINAL CONNECTION.
- ⑬ E.C. TO DISCONNECT EXISTING RTU-9 FOR REMOVAL BY OTHERS. PRESERVE CIRCUIT FOR REUSE. PROVIDE NEW 3P-60A DISCONNECT SWITCH AT UNIT. INTERCEPT AND EXTEND EXISTING CIRCUIT TO NEW RTU-9 AND MAKE FINAL CONNECTION.
- ⑭ E.C. TO DISCONNECT EXISTING RTU-10 FOR REMOVAL BY OTHERS. PRESERVE CIRCUIT FOR REUSE. PROVIDE NEW 3P-30A DISCONNECT SWITCH AT UNIT. INTERCEPT AND EXTEND EXISTING CIRCUIT TO NEW RTU-10 AND MAKE FINAL CONNECTION.



BROOKENS POD 100 HVAC ROOF PLAN

NO SCALE



POD 100

KEY PLAN - POD 100

SCALE: NO SCALE

DATE	NO.	DESCRIPTION

GHR ENGINEERS AND ASSOCIATES, INC.
Mechanical & Electrical Consulting Engineers
1615 South Neil Street, Champaign, Illinois 61820
217-356-0536 Business - 217-356-1092 Fax

BROOKENS POD 100 HVAC ROOF PLAN HAIL DAMAGED HVAC REPLACEMENT

CHAMPAIGN COUNTY
1776 E WASHINGTON STREET, URBANA IL 61802



DRAWN: JMD	APPROVED: RCVN
DATE: MAY 05, 2021	ISSUED FOR BID
PROJECT: GHR # 7321	

SHEET:

M-100

FILE: H:\GHR Projects\7321 - Champaign County Administrative Services - Brookens - Hail Damage\HVAC\01 - Worksheets\7321 - M-101.dwg
PRINTED: 05/04/2021



GENERAL NOTES

1. FIELD SURVEY DUCT CONNECTIONS AND ALL ROOFTOP UNITS BEFORE SUBMITTING SHOP DRAWINGS.
2. CONTRACTOR SHALL RETAIN ANY DUCT-MOUNTED SMOKE DETECTORS AND AVOID TRIGGERING FALSE ALARMS
3. BOLT RTUs AND CURB ADAPTERS.
4. CONTRACTOR TO VERIFY GAS PRESSURE.
5. CONTRACTOR TO VERIFY VOLTAGE.

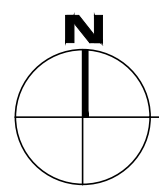
KEYED NOTES - (FOR THIS PLAN ONLY SYMBOL)

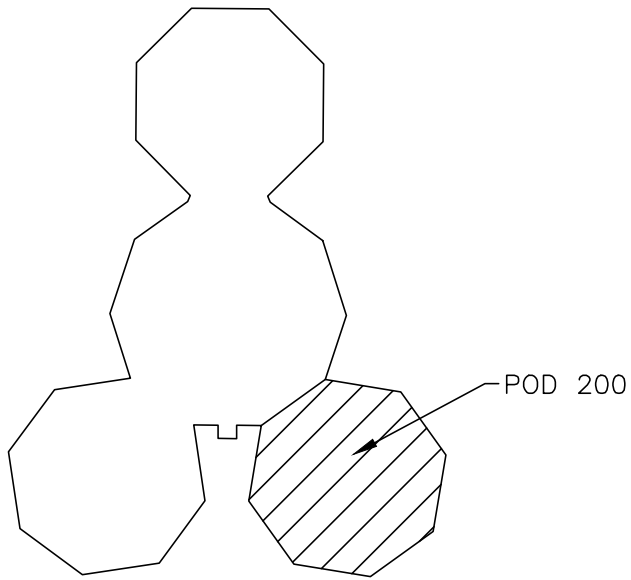
- 1 REMOVE EXISTING CONDENSING UNIT ON ROOF. REMOVE AND RECLAIM REFRIGERANT. REMOVE EXISTING REFRIGERANT PIPING. REMOVE ASSOCIATED EVAPORATOR COIL. INSTALL NEW CONDENSING UNIT ON ROOF. INSTALL NEW EVAPORATOR COIL. ROUTE NEW REFRIGERANT PIPING FROM CONDENSING UNIT TO EVAPORATOR COIL. ROUTE PIPING THROUGH EXISTING PIPE PORTAL. MODIFY ROOF RAILS AS NEEDED FOR NEW UNIT. INSTALL HAIL GUARD. BOLT UNIT TO ROOF RAILS.
- 2 EXISTING CH-1&2 TO REMAIN. THOROUGHLY CLEAN EXISTING CONDENSER COILS. COMB OUT COILS TO REPAIR BENT FINS TO THE SATISFACTION TO THE ENGINEER. PROVIDE AND INSTALL MATCHING FACTORY HAIL GUARDS.
- 3 MODIFY SA AND RA DUCTWORK AS NEEDED TO CONNECT TO NEW UNIT. WRAP ALL NEW SUPPLY DUCT. LINE ALL NEW RETURN DUCT.
- 4 DISCONNECT EXISTING UNIT FROM GAS PIPING. MODIFY PIPING AS NEEDED TO CONNECT TO NEW UNIT.
- 5 EXISTING UNIT POWERED BY ALPHA CONTROLS SYSTEM. ALPHA CONTROLS TO REMOVE EXISTING WALL MOUNTED THERMOSTAT. INSTALL NEW WALL MOUNTED CONTROLS AND WIRE TO NEW UNIT.
- 6 E.C. TO DISCONNECT EXISTING YMH UNIT FOR REMOVAL BY OTHERS. REMOVE WIRING BACK TO SOURCE. REMOVE EXISTING 3P-100A CIRCUIT BREAKER SERVING EXISTING YMH UNIT IN PANEL 'D' AND REPLACE WITH 3P-60A CIRCUIT BREAKER. E.C. TO PROVIDE AND INSTALL 3/4" x 1/2" IN 3/4" CONDUIT TO NEW YMH UNIT AND MAKE FINAL CONNECTION.

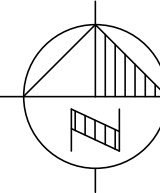
POD 200 CH-2

POD 200 CH-1

POD 200 YMH UNIT

 **BROOKENS POD 200 HVAC ROOF PLAN**
NO SCALE



 **KEY PLAN - POD 200**
SCALE: NO SCALE

DATE	NO.	DESCRIPTION



ENGINEERS AND ASSOCIATES, INC.
Mechanical & Electrical Consulting Engineers
1615 South Neil Street, Champaign, Illinois 61820
217-356-0536 Business - 217-356-1092 Fax

BROOKENS POD 200 HVAC ROOF PLAN
HAIL DAMAGED HVAC REPLACEMENT
CHAMPAIGN COUNTY
1776 E WASHINGTON STREET, URBANA IL 61802

SEAL

DRAWN: JMD

APPROVED: RCVN

DATE: MAY 05, 2021

ISSUED FOR BID

PROJECT: GHR # 7321

SHEET:

M-101

FILE: H:\GHR Projects\7321 - Champaign County Administrative Services - Brookens - Hail Damage\HVAC\01 - Worksheets\7321 - M-102.dwg
PRINTED: 05/04/2021



BROOKENS POD 300 HVAC ROOF PLAN

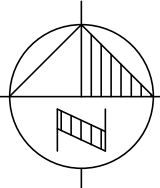
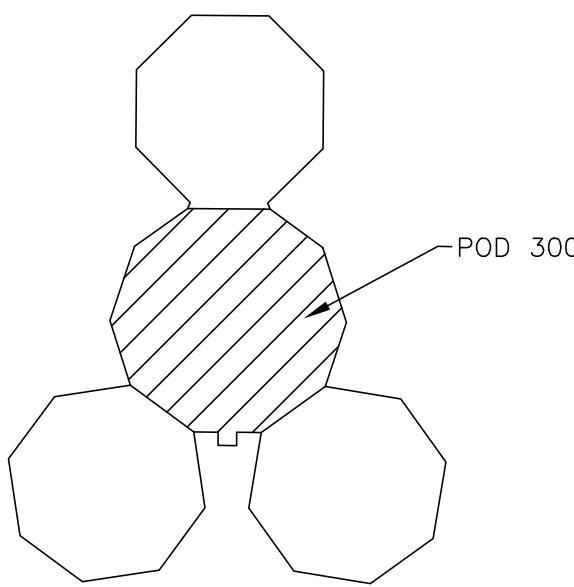
POD 300 LS UNIT

GENERAL NOTES

1. FIELD SURVEY DUCT CONNECTIONS AND ALL ROOFTOP UNITS BEFORE SUBMITTING SHOP DRAWINGS.
2. CONTRACTOR SHALL RETAIN ANY DUCT-MOUNTED SMOKE DETECTORS AND AVOID TRIGGERING FALSE ALARMS.
3. BOLT RTU'S AND CURB ADAPTERS.
4. CONTRACTOR TO VERIFY GAS PRESSURE.
5. CONTRACTOR TO VERIFY VOLTAGE.

KEYED NOTES - (FOR THIS PLAN ONLY SYMBOL)

- 1 REMOVE EXISTING RTU, DISCONNECT RA AND SA DUCTWORK. INSTALL NEW RTU ON ROOF CURB ADAPTER, ADAPTER TO BE SIZED TO MOUNT NEW RTU ON EXISTING CURB. CONTRACTOR TO VERIFY ALL DUCTWORK AND ADAPTER MEASUREMENTS. INSTALL HAIL GUARD.
- 2 MODIFY SA AND RA DUCTWORK AS NEEDED TO CONNECT TO NEW UNIT. WRAP NEW SUPPLY DUCT, LINE NEW RETURN DUCT.
- 3 EXISTING UNIT CONTROLLED BY STAND ALONE CONTROLS SYSTEM. CONTRACTOR TO REMOVE EXISTING WALL MOUNTED THERMOSTAT. INSTALL NEW WALL MOUNTED CONTROLS AND WIRE TO NEW UNIT.
- 4 DISCONNECT EXISTING UNIT FROM GAS PIPING. MODIFY PIPING AS NEEDED TO CONNECT TO NEW UNIT.
- 5 E.C. TO DISCONNECT EXISTING LYLE SHIELDS UNIT FOR REMOVAL BY OTHERS. PRESERVE WIRING FOR REUSE. E.C. TO REMOVE 3P-70A CIRCUIT BREAKER SERVING EXISTING LYLE SHIELDS UNIT FROM PANEL 'U' AND REPLACE WITH 3P-60A CIRCUIT BREAKER. INTERCEPT AND EXTEND EXISTING CIRCUIT TO NEW LYLE SHIELDS UNIT AND MAKE FINAL CONNECTION.



KEY PLAN - POD 300

SCALE: NO SCALE

DATE	NO.	DESCRIPTION



ENGINEERS AND ASSOCIATES, INC.
Mechanical & Electrical Consulting Engineers
1615 South Neil Street, Champaign, Illinois 61820
217-356-0536 Business - 217-356-1092 Fax

BROOKENS POD 300 HVAC ROOF PLAN
HAIL DAMAGED HVAC REPLACEMENT

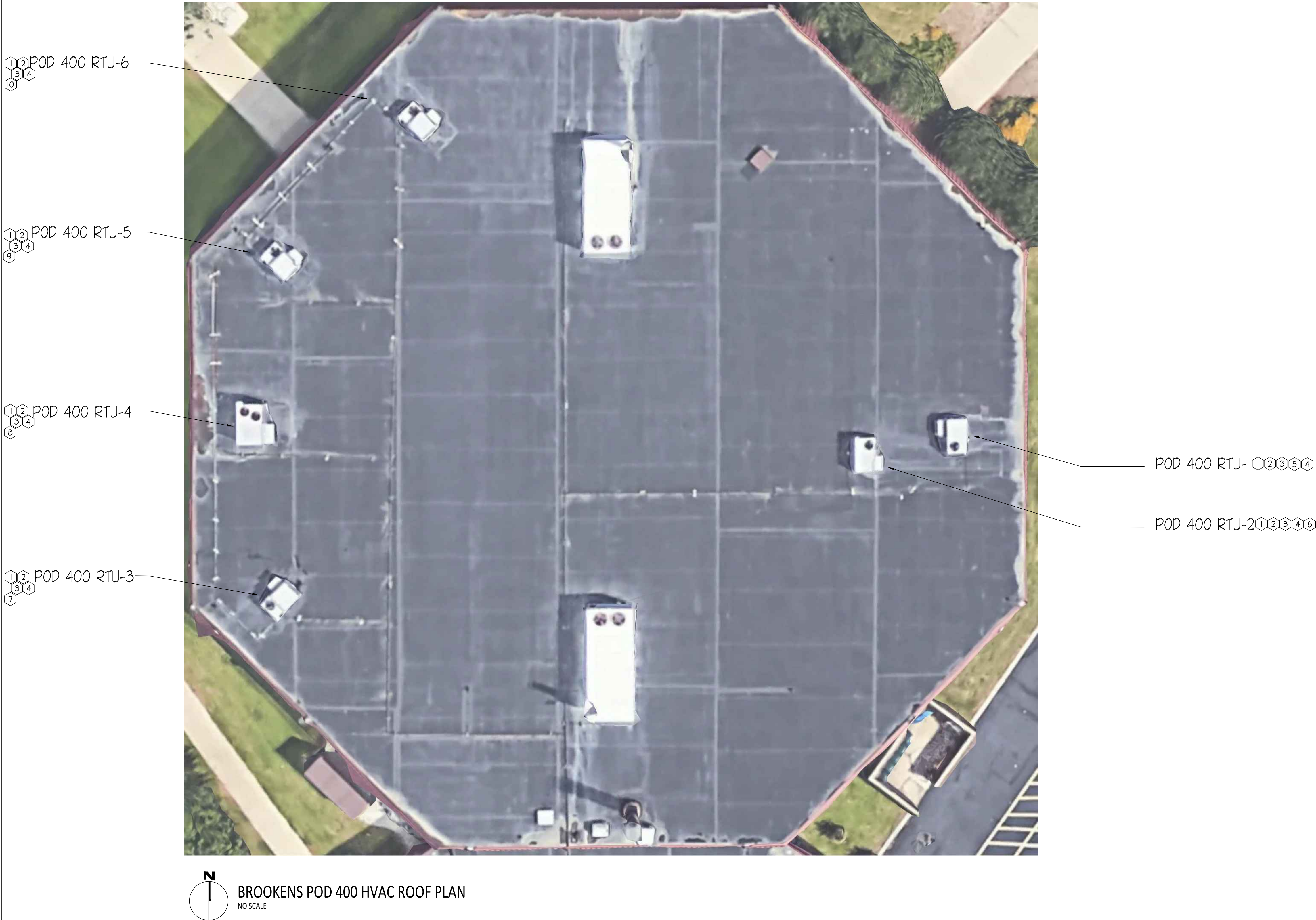
CHAMPAIGN COUNTY
1776 E WASHINGTON STREET, URBANA IL 61802

SEAL

DRAWN: JMD	APPROVED: RCVN
DATE: MAY 05, 2021	ISSUED FOR BID
PROJECT: GHR # 7321	

SHEET:
M-102

FILE: H:\GHR Projects\7321 - Champaign County Administrative Services - Brookens - Hail Damage\HVAC\01 - Worksheets\7321 - M-103.dwg
PRINTED: 05/04/2021

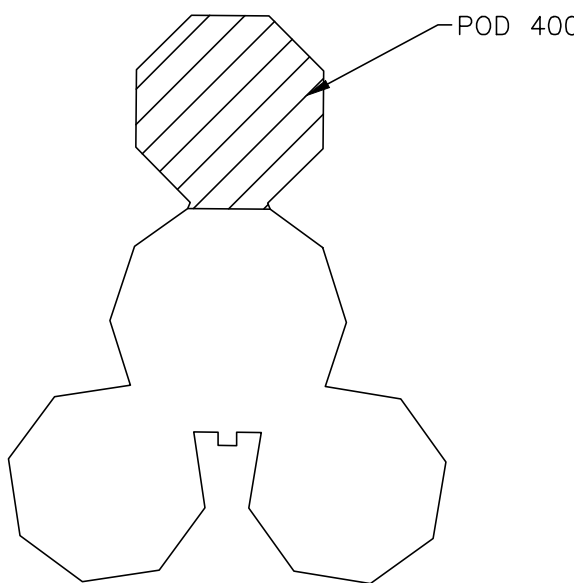


GENERAL NOTES

1. FIELD SURVEY DUCT CONNECTIONS AND ALL ROOFTOP UNITS BEFORE SUBMITTING SHOP DRAWINGS.
2. CONTRACTOR SHALL RETAIN ANY DUCT-MOUNTED SMOKE DETECTORS AND AVOID TRIGGERING ANY FALSE ALARMS.
3. BOLT RTUS AND CURB ADAPTERS.
4. CONTRACTOR TO VERIFY GAS PRESSURE.
5. CONTRACTOR TO VERIFY VOLTAGE.

KEYED NOTES - (FOR THIS PLAN ONLY) (SYMBOL)

1. REMOVE EXISTING RTU. DISCONNECT RA AND SA DUCTWORK. INSTALL NEW RTU ON ROOF CURB ADAPTER. ADAPTER TO BE SIZED TO MOUNT NEW RTU ON EXISTING CURB. CONTRACTOR TO VERIFY ALL DUCTWORK AND ADAPTER MEASUREMENTS. INSTALL HAIL GUARD.
2. MODIFY SA AND RA DUCTWORK AS NEEDED TO CONNECT TO NEW UNIT. WRAP NEW SUPPLY DUCT. LINE NEW RETURN DUCT.
3. EXISTING UNIT CONTROLLED BY ALPHA CONTROLS SYSTEM. ALPHA CONTROLS TO REMOVE EXISTING WALL MOUNTED THERMOSTAT. INSTALL NEW WALL MOUNTED CONTROLS AND WIRE TO NEW UNIT.
4. DISCONNECT EXISTING UNIT FROM GAS PIPING. MODIFY PIPING AS NEEDED TO CONNECT TO NEW UNIT.
5. E.C. TO DISCONNECT EXISTING RTU-1 FOR REMOVAL BY OTHERS. PRESERVE WIRING FOR REUSE. E.C. TO REMOVE 3P-35A CIRCUIT BREAKER IN PANEL 'MZ-2' SERVING EXISTING RTU-1 AND REPLACE WITH 3P-45A CIRCUIT BREAKER. INTERCEPT AND EXTEND EXISTING CIRCUIT TO NEW RTU-1 AND MAKE FINAL CONNECTION.
6. E.C. TO DISCONNECT EXISTING RTU-2 FOR REMOVAL BY OTHERS. PRESERVE WIRING FOR REUSE. E.C. TO REMOVE 3P-35A CIRCUIT BREAKER IN PANEL 'MZ-2' SERVING EXISTING RTU-2 AND REPLACE WITH 3P-45A CIRCUIT BREAKER. INTERCEPT AND EXTEND EXISTING CIRCUIT TO NEW RTU-2 AND MAKE FINAL CONNECTION.
7. E.C. TO DISCONNECT EXISTING RTU-3 FOR REMOVAL BY OTHERS. PRESERVE WIRING FOR REUSE. E.C. TO REMOVE 3P-40A CIRCUIT BREAKER IN PANEL 'MZ' SERVING EXISTING RTU-3 AND REPLACE WITH 3P-50A CIRCUIT BREAKER. INTERCEPT AND EXTEND EXISTING CIRCUIT TO NEW RTU-3 AND MAKE FINAL CONNECTION.
8. E.C. TO DISCONNECT EXISTING RTU-4 FOR REMOVAL BY OTHERS. PRESERVE WIRING FOR REUSE. E.C. TO INTERCEPT AND EXTEND EXISTING CIRCUIT TO NEW RTU-4 AND MAKE FINAL CONNECTION.
9. E.C. TO DISCONNECT EXISTING RTU-5 FOR REMOVAL BY OTHERS. PRESERVE WIRING FOR REUSE. E.C. TO REMOVE 3P-40A CIRCUIT BREAKER IN PANEL 'MZ' SERVING EXISTING RTU-5 AND REPLACE WITH 3P-50A CIRCUIT BREAKER. INTERCEPT AND EXTEND EXISTING CIRCUIT TO NEW RTU-5 AND MAKE FINAL CONNECTION.
10. E.C. TO DISCONNECT EXISTING RTU-6 FOR REMOVAL BY OTHERS. PRESERVE WIRING FOR REUSE. E.C. TO REMOVE 3P-40A CIRCUIT BREAKER IN PANEL 'MZ' SERVING EXISTING RTU-6 AND REPLACE WITH 3P-50A CIRCUIT BREAKER. INTERCEPT AND EXTEND EXISTING CIRCUIT TO NEW RTU-6 AND MAKE FINAL CONNECTION.



KEY PLAN - POD 400
SCALE: NO SCALE

DATE	NO.	DESCRIPTION



ENGINEERS AND ASSOCIATES, INC.
Mechanical & Electrical Consulting Engineers
1615 South Neil Street, Champaign, Illinois 61820
217-356-0536 Business - 217-356-1092 Fax

BROOKENS POD 400 HVAC ROOF PLAN
HAIL DAMAGED HVAC REPLACEMENT

CHAMPAIGN COUNTY
1776 E WASHINGTON STREET, URBANA IL 61802

SEAL

DRAWN: JMD	APPROVED: RCVN
DATE: MAY 05, 2021	
ISSUED FOR BID	
PROJECT: GHR # 7321	

SHEET:
M-103

FILE: H:\GHR Projects\7321 - Champaign County Administrative Services - Brookers - Hail Damage\HVAC\01 - Worksheets\7321 - M-104.dwg
PRINTED: 05/04/2021

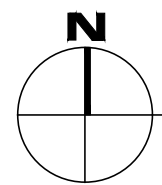


GENERAL NOTES

1. FIELD SURVEY DUCT CONNECTIONS TO ROOFTOP UNITS BEFORE SUBMITTING SHOP DRAWINGS.
2. CONTRACTOR SHALL RETAIN ANY DUCT-MOUNTED SMOKE DETECTOR AND AVOID TRIGGERING ANY FALSE ALARMS.

KEYED NOTES - (FOR THIS PLAN ONLY SYMBOL)

-  INSTALL HAIL GUARD.
-  EXISTING UNIT CONTROLLED BY ENTEC CONTROLS SYSTEM.
-  EVACUATE REFRIGERANT FROM EXISTING CONDENSING UNIT. REMOVE EXISTING CONDENSING UNIT COIL AND CONDENSER FANS AND FAN MOTORS. INSTALL NEW CONDENSING COIL AND CONDENSER FANS.



JUVENILE DETENTION CENTER HVAC ROOF PLAN
NO SCALE

DATE	NO.	DESCRIPTION



ENGINEERS AND ASSOCIATES, INC.
Mechanical & Electrical Consulting Engineers
1615 South Neil Street, Champaign, Illinois 61820
217-356-0536 Business - 217-356-1092 Fax

JUVENILE DETENTION CENTER HVAC ROOF PLAN

HAIL DAMAGED HVAC REPLACEMENT

CHAMPAIGN COUNTY
1776 E WASHINGTON STREET, URBANA IL 61802

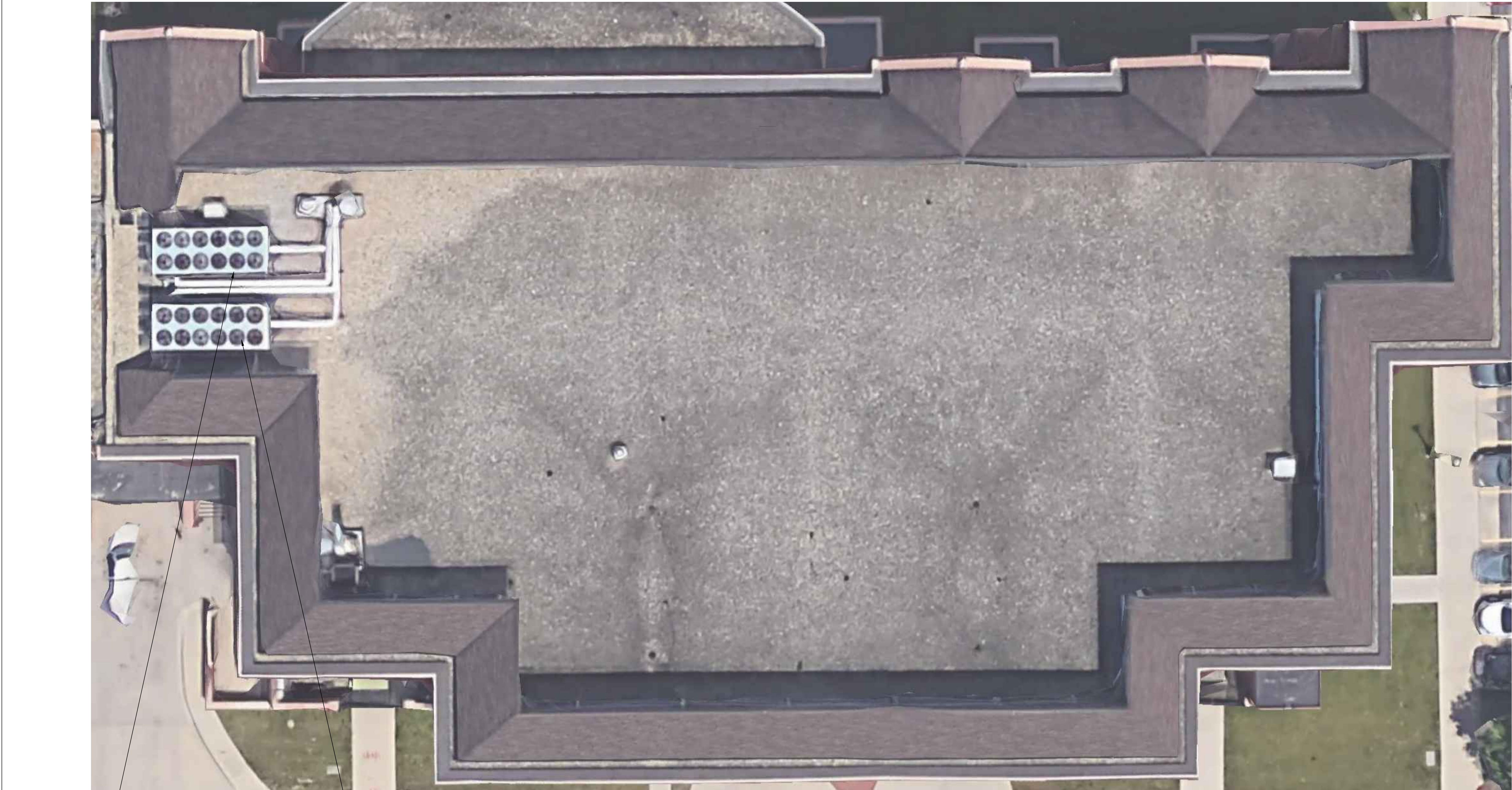


DRAWN:	JMD	APPROVED:	RCVN
DATE:	MAY 05, 2021		
ISSUED FOR BID			
PROJECT:	GHR # 7321		

SHEET:

M-104

FILE: H:\GHR Projects\7321 - Champaign County Administrative Services - Brokers - Hail Damage\HVAC\01 - Worksheets\7321 - M-105.dwg
PRINTED: 05/04/2021



KEYED NOTES - (FOR THIS PLAN ONLY SYMBOL)

1. REMOVE CONDENSER COIL FROM EXISTING AIR COOLED CONDENSER. REMOVE CONDENSING UNIT FAN MOTORS AND CONDENSER FAN BLADES. INSTALL NEW COIL, NEW CONDENSER FAN MOTORS, AND CONDENSER FAN BLADES IN UNIT. INSTALL HAIL GUARDS.
2. INSTALL HAIL GUARDS FROM CHILLER MANUFACTURER.

 CCC CH-1

CCC CH-2 



CHAMPAIGN COUNTY COURTHOUSE HVAC ROOF PLAN
NO SCALE

DATE	NO.	DESCRIPTION



ENGINEERS AND ASSOCIATES, INC.
Mechanical & Electrical Consulting Engineers
1615 South Neil Street, Champaign, Illinois 61820
217-356-0536 Business - 217-356-1092 Fax

CHAMPAIGN COUNTY COURTHOUSE HVAC ROOF PLAN

HAIL DAMAGED HVAC REPLACEMENT

CHAMPAIGN COUNTY
1776 E WASHINGTON STREET, URBANA IL 61802



DRAWN:	JMD	APPROVED:	RCVN
DATE:	MAY 05, 2021		
ISSUED FOR BID			
PROJECT:	GHR # 7321		

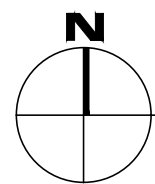
SHEET:

M-105

FILE: H:\GHR Projects\7321 - Champaign County Administrative Services - Brookers - Hail Damage\HVAC\01 - Worksheets\7321 - M-106.dwg
PRINTED: 05/04/2021

②③ METCAD ACCU-5
①③ METCAD ACCU-6



 METCAD HVAC ROOF PLAN
NO SCALE

KEYED NOTES - (FOR THIS PLAN ONLY SYMBOL)

- ① REPLACE EXISTING DAMAGED CONDENSER COIL FOR SPLIT SYSTEM. RECONNECT ALL CONTROLS. PROVIDE AND INSTALL MATCHING NEW HAIL GUARDS.
- ② REPLACE EXISTING DAMAGED CONDENSER COIL IN ACCU. REPLACE EXISTING CONDENSER FAN(S) AND MOTOR(S). INSTALL MATCHING NEW HAIL GUARD.
- ③ ALPHA CONTROLS TO RECONNECT UNIT TO EXISTING SYSTEM.

DATE	NO.	DESCRIPTION



ENGINEERS AND ASSOCIATES, INC.
Mechanical & Electrical Consulting Engineers
1615 South Neil Street, Champaign, Illinois 61820
217-356-0536 Business - 217-356-1092 Fax

METCAD HVAC ROOF PLAN

HAIL DAMAGED HVAC REPLACEMENT

CHAMPAIGN COUNTY
1776 E WASHINGTON STREET, URBANA IL 61802

SEAL

DRAWN:	JMD	APPROVED:	RVCN
DATE:	MAY 05, 2021		
ISSUED FOR BID			
PROJECT:	GHR # 7321		

SHEET:

M-106

1. CONTRACTOR SHALL VERIFY BY MEASUREMENT ALL EXISTING ELECTRICAL VOLTAGE AND PHASE CHARACTERIZATION PRIOR TO SUBMITTING SHOP DRAWINGS.

NOTES	COOLING AMBIENT AIR: 75 F
1.	INSTALL HAIL GUARDS ON EACH NEW AND/OR EXISTING ROOFTOP UNIT.
2.	PROVIDE EACH NEW RTU WITH ECONOMIZER / DAMPERS/ ONBOARD CONTROLS / DEMAND CONTROL VENTILATION

NOTES	
1.	REPLACE AIR COOLED CONDENSING UNIT AND ASSOCIATED AHU EVAPORATOR COIL
2.	INSTALL HAIL GUARD ON NEW ACCU.

SCHEDULE OF AIR COOLED CHILLERS																	
MARK	LOCATION	MANUFACTURER	EXISTING MODEL	NEW MODEL	AMBIENT TEMP (°F)	EER	IPLV	EVAPORATOR					ELECTRICAL DATA				REMARKS
								FLUID	EXT	LNT	GPM	WPD	V / P / Hz	MOCP		MCA	
													oct 1	oct 2	oct 1	oct 2	
POD 200 CH-1	BROOKENS POD 200 GROUND	CARRIER	3ORAP0905JB00110	CHILLER TO REMAIN													COMB OUT EXISTING CONDENSING COILS. PROVIDE HAIL GUARD
POD 200 CH-2	BROOKENS POD 200 GROUND	CARRIER	3ORAP1005JB000110	CHILLER TO REMAIN													COMB OUT EXISTING CONDENSING COILS. PROVIDE HAIL GUARD
CCC CH-1	CHAMPAIGN COUNTY COURTHOUSE ROOF	TRANE	RTAC 2004 UAON NAFN N1NY 1DDN RAON N1ON NOEX N	CHILLER TO REMAIN													REPLACE DAMAGED CONDENSER COILS, SUPPLY FAN AND MOTOR. PROVIDE HAIL GUARD
CCC CH-2	CHAMPAIGN COUNTY COURTHOUSE ROOF	TRANE	RTAC 2004 UAON NAFN N1NY 1DDN RAON N1ON NOEX N	CHILLER TO REMAIN													COMB OUT EXISTING CONDENSING COILS. PROVIDE HAIL GUARD



**ENGINEERS AND
ASSOCIATES, INC.**

Mechanical & Electrical Consulting Engineers

1615 South Neil Street, Champaign, Illinois 61820
217-356-0536 Business - 217-356-1092 Fax

CHAMPAIGN COUNTY

THE ORIGINAL OF THIS DRAWING IS 24" X 36". IF THIS COPY IS ANY OTHER SIZE, IT HAS EITHER BEEN REDUCED OR ENLARGED. TAKE APPROPRIATE PRECAUTIONS ACCORDINGLY.