

BLOCK

702

LOT

5

QUALIFICATION CODE

ADDRESS (SITE)

301 Charles Bridge Rd. 11-2010

PERMIT NO.



CONSTRUCTION PERMIT APPLICATION

Applicant Completes: Sections I, II, III (optional), IV, VI, and VII

C-11-002514

I. IDENTIFICATION

1. Proposed Work Site at: Ocean County Library 301 CHAMPERS BRIDGE RD BRICK, NJ

2. Name of Owner in Fee: BRICK TOWNSHIP

Tel. () e-mail

Address street municipality zip code

3. Ownership in Fee: ☒ Public ☐ Private

4. Principal Contractor: ATC SYSTEMS INC. Tel. (732) 560-0900

Address 207 BLACKFORD AVE e-mail X31

Middlesex NJ 08846

License No. OR, if new home, Builder Reg. No. 12744A Exp. Date 3/31/12

Home Improvement Contractor Registration No. or Exemption Reason (if applicable): 22-2456316

Federal Emp. ID No. 122444 FAX: (732) 560-9699

5. Architect or Engineer Contact

Address e-mail

Tel. () FAX: ()

6. Responsible Person in Charge once Work has Begun JOSEPH LEWKOWICZ

Tel. (732) 560-0900 FAX: (732) 560-9699

V. FEE SUMMARY (for office use only)

		Update	Update
1. Building	\$		
2. Electrical	\$		
3. Plumbing	\$		
4. Fire Protection	\$		
5. Elevator Devices	\$		
6. Subtotal	\$		
7. Less 20% for State Plan Review	\$		
8. Subtotal	\$		
9. State Permit Surcharge Fee	\$		
10. Subtotal	\$		
11. Cert. of Occupancy	\$		
12. Other	\$		
13. TOTAL	\$		

VI. BUILDING/SITE CHARACTERISTICS

		(office use only)
1. Number of Stories		
2. Height of Structure		ft.
3. Area - Largest Floor		sq. ft.
4. New Building Area		sq. ft.
5. Volume of New Structure		cu. ft.
6. Max. Live Load		
7. Max. Occupancy Load		
8. Industrialized Building: State Approved		HUD
9. Total Land Area Disturbed		sq. ft.
10. Flood Hazard Zone		
11. Base Flood Elevation		ft.
12. Wetlands	yes	no

IIa. PROPOSED WORK

- ☐ Minor Work ☐ New Building ☐ Addition ☐ Demolition
- ☐ Repair ☐ Alteration ☐ Renovation ☐ Reconstruction
- ☐ Asbestos Abat. -Subch. 8 ☐ Lead Hazard Abatement ☐ Radon Remediation ☐ Annual Permit

VII. DESCRIPTION OF BUILDING USE

A. RESIDENTIAL (primary use)

1. State Specific Use: _____
2. Use Group, Proposed: _____
3. Change in Use Group, Indicate Present: _____
4. No. of dwelling units: Total Units Income-restricted
- Gained, Sale _____
- Gained, Rental _____
- Lost, Sale _____
- Lost, Rental _____

B. NON-RESIDENTIAL (primary use)

1. State Specific Use: _____
2. Use Group, Proposed: _____
3. Change in Use Group, Indicate Present: _____
- C. MIXED USE -List secondary use(s): _____
- D. Construct. Classification: Present _____
- Proposed _____

IIb. SUBCODES

(Check all that apply)

- ☐ Building
- ☒ Electrical
- ☐ Plumbing
- ☐ Fire Protection
- ☐ Elevator

TOTAL COST 8200

FOR OFFICE USE ONLY (Optional)

Est. Cost	Plans Rec'd by	Date Rec'd	Rejection Date	Approval Date	Re-viewer	Resubmission Dates	Re-viewer
<u>8,000</u>	<u>JS</u>	<u>7/14/11</u>		<u>7-7-11</u>	<u>JS</u>		

III. PLAN REVIEW (optional)

DO YOU WANT:

1. ☐ Partial Releases
2. ☐ Prototype Processing

IV. DOES OR WILL YOUR BUILDING CONTAIN ANY OF THE FOLLOWING?

1. ☐ Elevators/Escalators/Lifts/ Dumbwaiters/Moving Walks
2. ☐ High Pressure Boilers
3. ☐ Pressure Vessels
4. ☐ Refrigeration Systems
5. ☐ Cross-Connections/Backflow Preventers
6. ☐ Hazardous Uses/Places of Assembly
7. ☐ Sprinklers/Standpipes
8. ☐ Smoke Control Systems in Open Wells
9. ☐ Underground Storage Tanks
10. ☐ Swimming Pools, Spas and Hot Tubs
11. ☐ LPGas Tanks
12. ☐ Fire Alarm



Brick Township
401 Chambersbridge Rd
Brick, NJ 08723

Date Issued 11/01/2011
Control Number C-11-002514
Permit Number 11-2010
Permit Issue Date 07/08/2011
Certificate Number 11-2010

Certificate

Construction Code Division
(Certificate of Approval)

Identification

Work Site Location: 301 CHAMBERS BRIDGE RD. Brick Township, NJ Block: 702 Lot: 5 Qual:
Owner in Fee: OCEAN COUNTY
Owner Address: 101 HOOPER AVE TOMS RIVER NJ 08753
Telephone:
Contractor: ATC SYSTEMS INC
Address: 560 BLACKFORD AVE MIDDLESEX NJ 08846
Telephone: (732) 560-0900 Fax: (732) 560-9699
License Number or Builders Registration Number: 12744A Federal Emp. Number: 22-2456376

Home Warranty Number:

Type of Warranty Plan: ☐ State ☐ Private

Use Group: A-3 Construction Classification:

Maximum Live Load: 0 Maximum Occupancy Load: 0

Description of Work/Use: ALTERATION - -COMMERCIAL Low Voltage

Certificate Comments:

☐ **Certificate of Occupancy**

This serves notice that said building or structure has been constructed in accordance with the New Jersey Uniform Construction Code and is approved for occupancy.

☒ **Certificate of Approval**

This serves notice that the work completed has been constructed or installed in accordance with the New Jersey Uniform Construction Code and is approved. If the permit was issued for minor work, this certificate was based upon what was visible at the time of inspection.

☐ **Certificate of Continued Occupancy**

This serves notice that based on a general inspection of the visible parts of the building there are no imminent hazards and the building is approved for continued occupancy.

☐ **Temporary Certificate of Compliance**

The following conditions must be met no later than or the owner will be subject to fine or order to vacate:

This certificate has an expiration date of:

Conditions to be met:

☐ **Certificate of Clearance - Lead Abatement 5:17**

This serves notice that based on written certification, lead abatement was performed as per NJAC5:17 to the following extent.

- ☐ Total removal of lead-based paint hazards in scope of work
☐ Partial or limited time period (years); see file

☐ **Certificate of Clearance - Asbestos Abatement**

This serves notice that based on written certification, asbestos abatement was performed to the following extent.

- ☐ Total removal of asbestos hazards in scope of work
☐ Partial or limited time period (years); see file

☐ **Certificate of Compliance**

This serves notice that said potentially hazardous equipment has been installed and/or maintained in accordance with the New Jersey Uniform Construction Code and is approved for use until

☐ **Temporary Certificate of Occupancy**

The following conditions must be met no later than: or the owner will be subject to fine or order to vacate:

This certificate has an expiration date of:

Conditions to be met:

Construction Official

Fee: \$0.00

Check Number:

Collected By:

CERTIFICATION IN LIEU OF OATH

I. OWNER SECTION (to be completed if the applicant is the owner in fee)

I hereby certify that I am the owner in fee of the property listed on Page 1.

Mark the following applicable boxes:

- A. ☐ I further certify that a new home (private residence) will be constructed on this property for my own use and occupancy. This dwelling is to be occupied by myself and is not to be used for any purpose other than single family residential use. I attest that all construction, plumbing, or electrical work will be done, in whole or in part, by me or by subcontractors under my supervision, in accordance with all applicable laws; and, I further acknowledge that said new home is not covered under the New Home Warranty and Builders Registration Act (N.J.S.A. 46:3B-1 et seq.) and that such fact shall be disclosed to any person purchasing this property within ten years of the date of issuance of a certificate of occupancy.

I UNDERSTAND THAT IN MARKING BOX A, I ACKNOWLEDGE THAT I AM ASSUMING RESPONSIBILITY FOR THE WORK DONE ON SAID PROPERTY, THE CONDITION OF THE PROPERTY PRIOR TO, DURING, AND AFTER ANY WORK PERFORMED, AND FOR THE PERFORMANCE OF THE SUBCONTRACTORS I HIRE, EMPLOY, OR OTHERWISE CONTRACT OR WITH WHOM I MAKE AGREEMENTS TO PERFORM WORK. I AM VOLUNTARILY AND KNOWINGLY ASSUMING THIS RESPONSIBILITY.

- B. ☐ I further certify the following as required by the New Jersey Uniform Construction Code, N.J.A.C. 5:23-2.15(f)1.ix:

I personally prepared the plans submitted for: 1) the new home referred to in A.; or, 2) an addition, alteration, renovation, or repair to an existing single family residence owned and occupied by myself and located on the property listed on Page 1; or, 3) a new structure that will be physically separate from, but that will be deemed part of, an existing single family residence that is owned and occupied by myself and located on the property listed on Page 1.

- C. ☐ I further certify that I will perform or supervise the following work:

C.1. ☐ Building C.2. ☐ Fire Protection

I further certify that I will perform the following work:

C.3. ☐ Electrical C.4. ☐ Plumbing

- D. ☐ I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All required State, county, and local prior approvals have been given, including such certification as the construction official may require.

I understand that if any of the above statements are willfully false, I am subject to punishment.

Signature _____ Date _____

II. AGENT SECTION (to be completed if the applicant is not the owner in fee)

I hereby certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(d): the proposed work is authorized by the owner in fee; and I have been authorized by the owner in fee to make this application as his agent.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All required State, county, and local prior approvals have been given, including such certification as the construction official may require.

I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I understand that if any of the above statements are willfully false, I am subject to punishment.

☒ Check if contractor.

Agent Name ATC SYSTEMS, INC.

Address 207 Blackford Ave.

Telephone (732) 560-0900

Signature James Wership

- III. ☐ LEAD HAZARD ABATEMENT: Include Homeowner or Building Owner Affidavit as per N.J.A.C. 5:17.



ELECTRICAL SUBCODE
TECHNICAL SECTION

A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 962 Lot 5 Qualification Code 301
Work Site Location Ocean County Library 301 Chambers
Brick Twp, New Jersey 08724
Owner in Fee: Brick Township
Tel. () e-mail

Address ATC Systems Inc Municipality Atlantic City Tel. 732-560-0900
Contractor License No. 127444 e-mail newkewy@atcsystems.net
Exp. Date 3/31/12

Home Improvement Contractor Registration No. or Exemption Reason (if applicable):
Federal Emp. ID No. 22-2456376 FAX: 732-560-9699

B. ELECTRICAL CHARACTERISTICS
Use Group Present 13 Proposed Low Voltage Control Wiring
☐ Pole/Pad # 13 ☐ Temporary ☐ Other

Building Occupied as Utility Co.
Est. Cost of Elec. Work \$ 8,000

JOB SUMMARY (Office Use Only)

PLAN REVIEW	Date	Initial	INSPECTIONS	Failure	Failure	Approval	Initial
☒ No Plans Required			Rough				
☒ Joint Plan Review Required			Barrier-Free				
☒ Building ☐ Plumbing			Trench				
☒ Fire ☐ Elevator			Temp. Serv.				
☒ Elec. Plans Approved			Const. Serv.				
Date: <u>7-7-11</u>			TCO				
Approved by: <u>JS</u>			Other				
			Service				
			Final				
			Barrier-Free				
			Temp. Cut-In-Cord Device Issued				
			Final Cut-In-Cord Device Issued				
			Annual Pool Inspection				
			Date of Grounding and Certification				

D. TECHNICAL SITE DATA
DESCRIPTION OF WORK
Low Voltage Control Wiring

QTY.	SIZE	ITEMS	FEE (Office Use Only)
		Lighting Fixtures	
		Receptacles	
		Switches	
		Detectors	
		Light Poles	
		Motors—Fract. HP	
		Emergency & Exit Lights	
		Communications Points	
		Alarm Device (F.A.C. Panel)	
		<u>Low Voltage Control Wiring</u>	
		TOTAL NUMBERS	
		Pool Permit/with UW Lights	
		Storable Pool/Spa/Hot Tub	
		KW Elec. Range/Receptacle	
		KW Oven/Surface Unit	
		KW Elec. Water Heater	
		KW Elec. Dryer/Receptacle	
		KW Dishwasher	
		HP Garbage Disposal	
		KW Central AC Unit	
		HP/KW Space Heater/Air Handler	
		KW Baseboard Heat	
		HP Motors 1/+ HP	
		KW Transformer/Generator	
		AMP Service	
		AMP Subpanels	
		AMP Motor Control Center	
		KW Elec. Sign Outline Light	
		<u>Low Voltage - Devices</u>	

Date Received 7/8/11
Control # 11-2010
Date Issued
Permit #

Administrative Surcharge \$

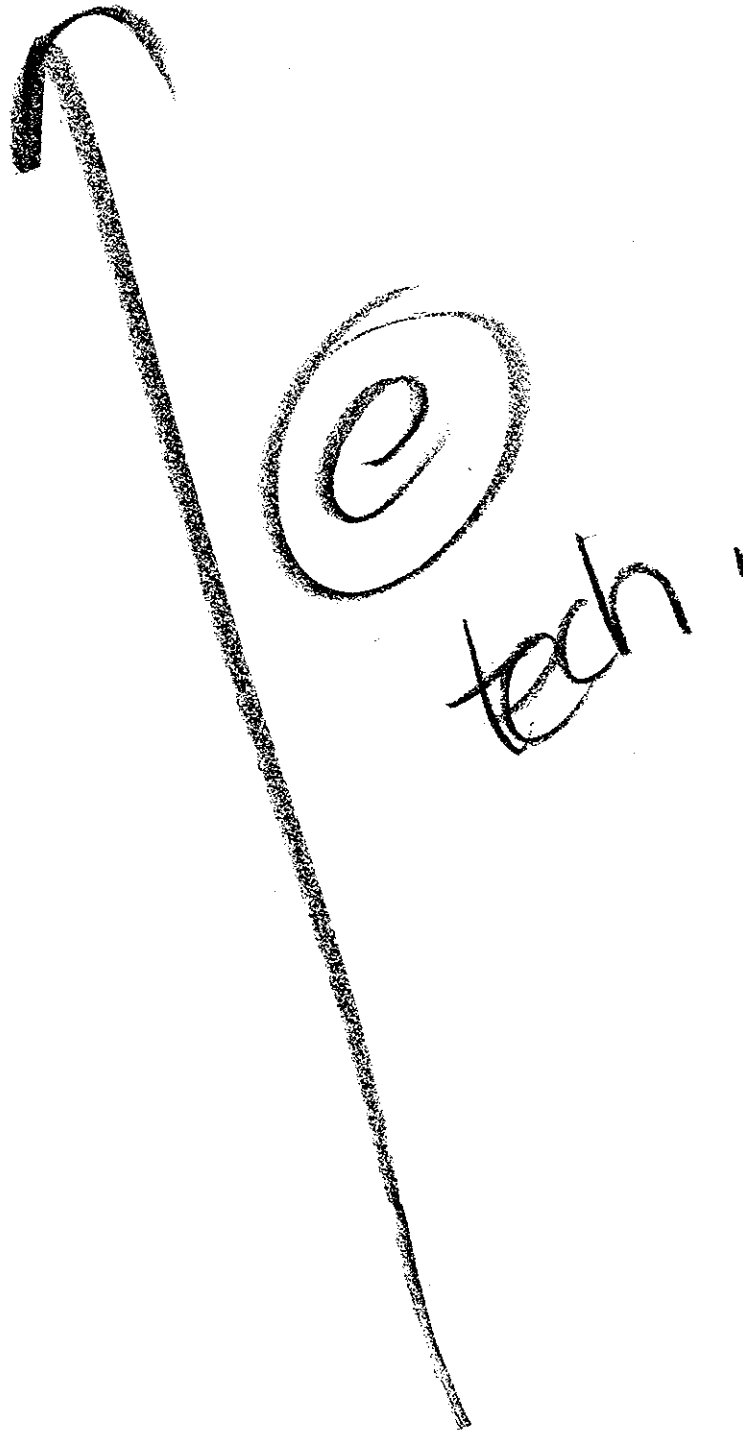
Minimum Fee \$

State Permit Surcharge Fee \$

TOTAL FEE \$

10-19-4

NO ONE HOME



25



CONSTRUCTION PERMIT

Date Issued 7/8/11
Control # C-11-002514
Permit # 11-2010

IDENTIFICATION Block: 702 Lot: 5 Qualifier _____
Work Site Location: 301 CHAMBERS BRIDGE RD. Brick Township, NJ Contractor: ATC SYSTEMS INC
Address: 560 BLACKFORD AVE MIDDLESEX NJ 08846
Owner in Fee: OCEAN COUNTY
101 HOOPER AVE TOMS RIVER NJ 08753 Telephone: (732) 560-0900
Lic. No. or Bldrs. Reg. No. 12744A
Telephone: _____ Federal Employee No. 22-2456376

Is hereby granted permission to perform the following work:

- | | | |
|--|--|--|
| ☐ BUILDING | ☐ PLUMBING | ☐ LEAD HAZARD ABATEMENT |
| ☒ ELECTRICAL | ☐ FIRE PROTECTION | ☐ DEMOLITION |
| ☐ ELEVATOR DEVICES | ☐ ASBESTOS ABATEMENT
(Subchapter 8 only) | ☐ OTHER |

DESCRIPTION OF WORK:

ALTERATION - COMMERCIAL Low Voltage

Note: If construction does not commence within one (1) year of date of issuance, or if construction ceases for a period of six (6) months, this permit is void.

Estimated Cost of Work \$8,000

[Signature]
Construction Official

7-7-11
Date

PAYMENTS (Office Use Only)

Building	\$0
Electrical	\$0
Plumbing	\$0
Fire Protection	\$0
Elevator Devices	\$0
Other	\$0.00
DCA Training Fee	\$0
CO Fee	\$0
Other	\$0
Total	\$0
Check No.	
Cash	\$0
Credit	\$0
Collected By	

U.C.C. F170
equiv. (rev 8/03)

1 WHITE - INSPECTOR

2 CANARY - OFFICE

3 PINK - TAX ASSESSOR

4 GOLD - APPLICANT

REQUIRED INSPECTIONS

Construction work must be inspected in accordance with the State Uniform Construction Code Regulations N.J.A.C. 5:23-2.18. This agency will carry out such periodic inspections during the progress of work as are necessary to insure that the work installed conforms with the requirements of the Uniform Construction Code.

The owner or other responsible person in charge of work must notify this agency when work is ready for any required inspections specified below. Requests for inspections must be made at least 24 hours prior to the time the inspection is desired. Inspections will be performed within three business days of the time for which they are requested. The work must not proceed in a manner which will preclude the inspection until it has been made and approval granted.

☐ Required inspections for all subcodes for one- and two-family dwellings are as follows:

1. The bottom of footing trenches before placement of footings, except that in cases of pile foundations, inspections shall be made in accordance with the requirements of the building subcode.
2. Foundations and all walls up to grade level prior to back filling.
3. All structural framing, connections, wall and roof sheathing and insulation; electrical rough wiring, panel and service installation; rough plumbing. The framing inspection shall take place after the rough electrical and plumbing inspections and after the installation of the heating, ventilation and /or air conditioning duct system. The insulation inspection shall be performed after all other subcode rough inspections and prior to the installation of any interior finish material.
4. Installation of all finished materials, sealings of exterior joints, plumbing piping, trim and fixtures; electrical wiring, devices and fixtures; mechanical systems equipment.

Additional required inspections for all subcodes of construction, for other than one- and two-family dwellings, are fire suppression systems, heat producing devices and Barrier Free subcode accessibility, if applicable.

☐ Required special inspections. The applicant by accepting the permit will be deemed to have consented to these requirements:

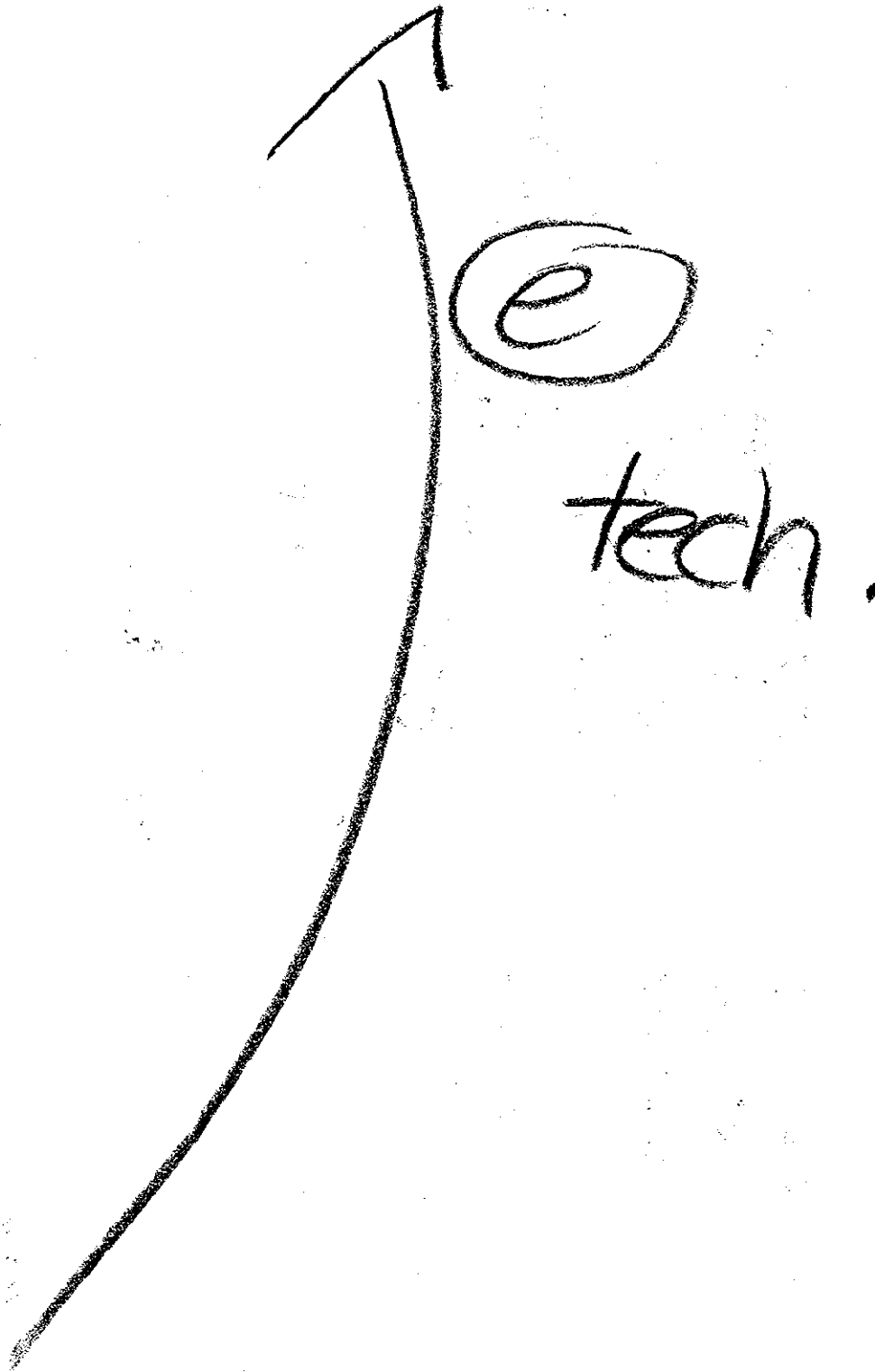
☒ A final inspection is required for each applicable subcode area before a final Certificate of Occupancy or Approval may be issued. The final inspections include the installation of all interior and exterior finish materials, sealing of exterior joints, mechanical system and other required equipment; electrical wiring; devices and fixtures; plumbing pipes, trim and fixtures; tests required by any provision of the adopted subcodes, Barrier Free accessibility, if applicable; and verification of compliance with NJAC 5:23-3.5 "Posting structures".

☒ A complete copy of released plans must be kept on the job site.

If you do not understand any of this information, please ask.

10-25-11

NO CONTAMINATOR ON SITE



State Of New Jersey
New Jersey Office of the Attorney General
Division of Consumer Affairs

THIS IS TO CERTIFY THAT THE
Board of Exam. of Electrical Contractors

HAS LICENSED

ATC SYSTEMS INC
James J Winship
207 BLACKFORD AVE PO BX 310
MIDDLESEX NJ 08846-0310

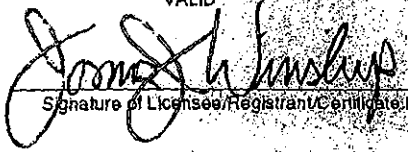
FOR PRACTICE IN NEW JERSEY AS A(N): Electrical Business Permit

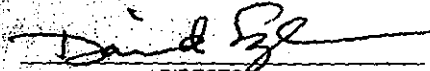
03/06/2009 TO 03/31/2012

VALID

34EB01274400

LICENSE/REGISTRATION/CERTIFICATION #


Signature of Licensee/Registrant/Certificate Holder


DIRECTOR

ATC SYSTEMS, INC.
207 Blackford Avenue
PO Box 310
Middlesex, New Jersey 08846

(732) 560-0900
FAX (732) 560-9699

TO: Midcoast Mechanical, Inc.
6 Columbia Road
Neptune, NJ 07753

LETTER OF TRANSMITTAL

DATE: 7/1/2011	ATC JOB # : C-8616
ATTN: Bob Maddix	
RE: Ocean County Library Brick Twp., New Jersey	

WE ARE SENDING YOU:

COPIES	DATE	DESCRIPTION
6		ATC SUBMITTAL

THESE ARE TRANSMITTED as checked below:

- ☒ For approval ☐ Approved as submitted ☐ Resubmit copies for approval
☒ For your use ☐ Approved as noted ☐ Submit ___ copies for distribution
☒ As requested ☐ For resubmission ☐ Return ___ corrected prints
☐ For Record Purpose ONLY ☐ Prints returned after loan to us

REMARKS:

COPY TO: _____

SIGNED Tom McDonald

ATC SYSTEMS, INC.
207 Blackford Avenue
Middlesex, New Jersey

Ocean County Library Brick Twp., New Jersey

**ATC SUBMITTAL
July 1, 2011
ATC Job# C-8616**

**Engineer: Birdsall Services Group
Mechanical: Midcoast Mechanical, Inc.**



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OCEAN COUNTY LIBRARY
BRICK TWP. BRANCH
BRICK TWP., NEW JERSEY

ATC Job #C-8616

General Notes

Customer to provide both host computers

Compressed Air Piping						
<u>Location</u>		<u>Copper</u>		<u>Fire Rated Poly</u>		
		Hard	Soft	In EMT	Bundle	Single
Exposed						
Concealed	Accessible					
	Inaccessible					
Mechanical Equipment Room						
Panels						
Duct Shafts						

[illegible]

**Ocean County Library
Brick Twp. Branch
Brick Twp., New Jersey
Job# C-8616
Sequence of Operations**

Multi-zone Rooftop Units RTU-1 & RTU-2

Unoccupied Mode

- The units shall be indexed for occupied/unoccupied mode through its DDC controller or through a push-button O/R pushbutton located on the zone's space sensor.
When the system is in the unoccupied mode, the outdoor air shall be fully closed and the return air damper shall be open. The unit's gas furnace shall be de-energized. The DX cooling shall be de-energized. A zone space sensor shall cycle the supply air fan to maintain a minimum space temperature of 60°F (adjustable). Any associated interlocked exhaust air fans shall remain off.

Occupied Mode

- In the occupied cycle the supply air fan shall be energized and shall run continuously. A VFD drive speed control signal will be used by the air balancer to set the proper fan speeds for both the supply fan and the exhaust fans.

Morning Warm-up

- The return air sensor shall place the system in the warm-up cycle until the return air temperature rises above 68°F (adjustable).
- When the system is in the warm-up cycle the outdoor air damper shall remain closed and the return air damper shall remain open. The hot deck supply air sensor shall through the DDC system controller shall enable the gas heat and modulate the gas valve to maintain a hot deck supply air temperature of 120°F. When the return air temperature rises to 68°F the system shall then be placed in the ventilation mode, which shall allow the outdoor air and return air dampers to begin to modulate open to the minimum outdoor air position. Interlocked exhaust air fans shall run continuously.

Heating

- During the winter mode of operation, the mechanical cooling shall be inoperative. The gas heat has the capability of providing 2 stages of heat with modulation in order to provide minimum and maximum heating capability. The hot deck temperature shall maintain a supply air heating set point through a reset schedule as follows:
- When the outside air temperature is 60° F., the hot deck supply air set point shall be 90° F. (adjustable) As the outside air decreases downward to a temperature of 0°F., the hot deck supply air temperature shall increase to 120°F.(adjustable). At minimum heat (90°F.), the gas valve will

modulate with a minimum flow. The cold deck temperature set point will stabilize at a temperature of 55°F, through the economizer. When the hot deck is at maximum heating (120°F.), the gas valve will modulate with the maximum flow. Again, the cold deck temperature set point will maintain 55°F. through the economizer.

Cooling

- The unit shall be indexed for summer/winter mode manually from the host computer or automatically whenever the outdoor temperature rises above 70°F (adjustable). When the unit is indexed for summer operation, the gas heat will be disabled and the outdoor, return air dampers shall open to allow the minimum amount of outdoor air. The cold deck sensor shall cycle the mechanical cooling to maintain the cold deck temperature through a reset schedule as follows: The space temperature zone sensors when attempting to achieve their set point, will reset the cold deck temperature set point 1°F. every 5 minutes until the maximum set point of 62°F. is reached. As a zone temperature sensor increases above its set point, the cold deck temperature set point will begin to decrease down to its minimum set point of 55°F., at a rate of 1°F. per 5 minute interval. While the set point is trying to be achieved, the mechanical cooling stages will be enabled and modulated as needed. Compressor #1 will enable first and the demand signal from the DDC controller will cause the compressor to modulate to meet the set point. After the compressor has been modulated to its full capacity and set point cannot be reached, compressor #2 will be energized. After 5 minutes after the set point is reached compressor #1 will have begun to modulate down. When the compressor has been at its minimum modulation voltage of 2.2 vdc to 5 minutes, the stage 2 compressor will be staged off. After another 5 minutes, of compressor #1 being a minimum signal voltage, it will cycle off. Solid state time delay relays will be installed at the factory to achieve the proper time sequences.
- The cooling will mechanically be locked out if the leaving temperature of the cooling coil decreases below 38°F. and if the ambient temperature is below 50°F. (adjustable)

Filter switch

- Provide at the filter a differential pressure switch. The switch shall be set as per the Manufacturers rating for a dirty filter. Whenever the filter exceeds this rating, the filter switch shall indicate a dirty filter alarm at the host computer.

Fan Status

- Provide a current sensor at each supply and return/exhaust fan. The switch/sensor shall provide fan flow status and fan failure to the ATC system. If the fan(s) are commanded on and the fan status shows off, an alarm will be sent to the BAS system.

Zone Dampers

- Each zone damper system has 3 position decks listed as hot deck, bypass or neutral deck, and cold deck. The zone dampers will modulate through their respective space sensors as follows:
- During full cooling demand, the cold deck damper will be 100% open, the bypass and hot deck dampers will be closed. If the cooling demand decreases in a zone, The cold deck damper shall modulate towards the closed position. The bypass (neutral deck) will then modulate towards the open position in proportion to the cold deck damper. The hot deck damper will remain closed.
- During full heating demand, the hot deck will be 100% open, the neutral and cold deck dampers will be fully closed. If the heating demand decreases in a zone, the hot deck damper will modulate towards the closed position. The neutral deck damper will modulate towards the open position in proportion to the hot deck damper closing down. The cold deck damper will remain closed.

- When there is not a demand for either heating or cooling, the bypass (neutral damper will be 100% open with both the hot and cold decks being closed.

Economizer

- The economizer will have an enthalpy change over point as follows: When there is a call for cooling and the ambient enthalpy is below the change-over set point of 22 Btu/lb. (adjustable), the outside air and exhaust air dampers will modulate to maintain a mixed air temperature of 55° F. (adjustable). When the economizer is disabled and the unit is in the occupied mode, the outside air damper will be set to its minimum position. When the economizer is disabled and the unit is in the unoccupied mode, the outside air damper will be closed.

FIGURE-1
FC BUS [MS/TP] COMMUNICATION TRUNK

SEE NOTES ON THIS DRAWING

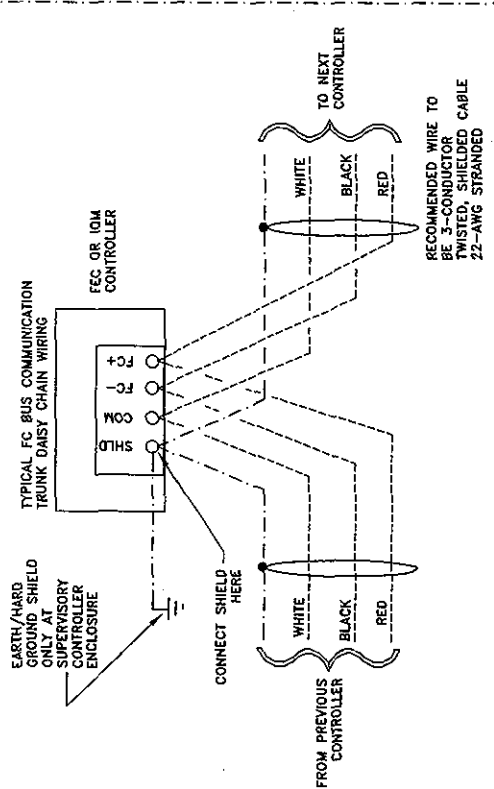
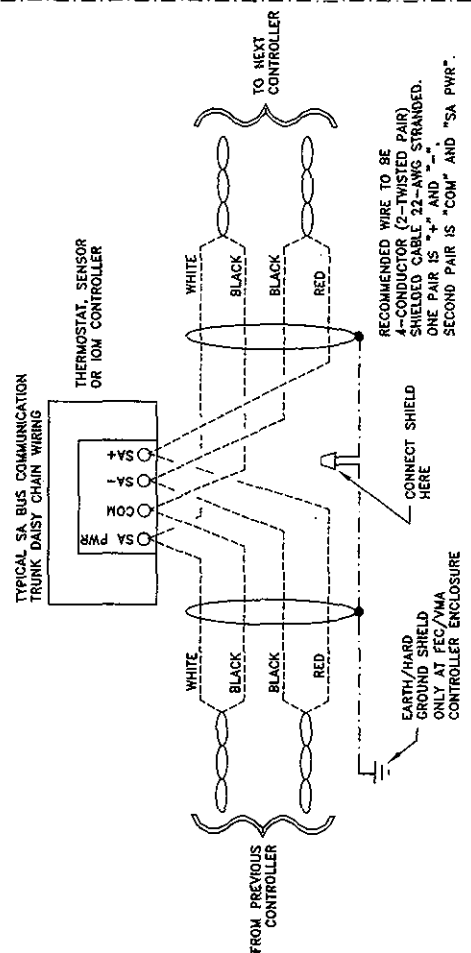


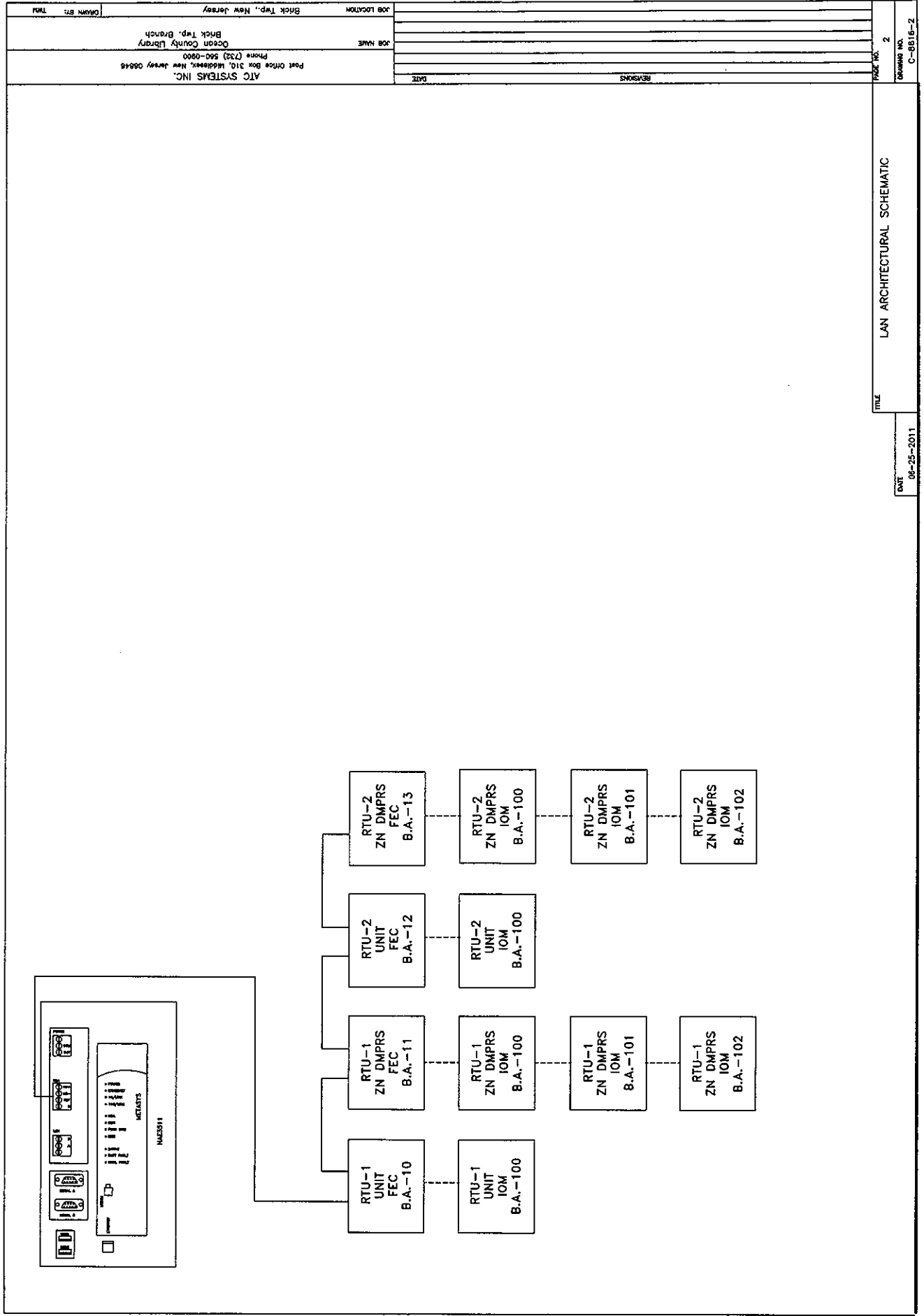
FIGURE-2
SA BUS COMMUNICATION TRUNK

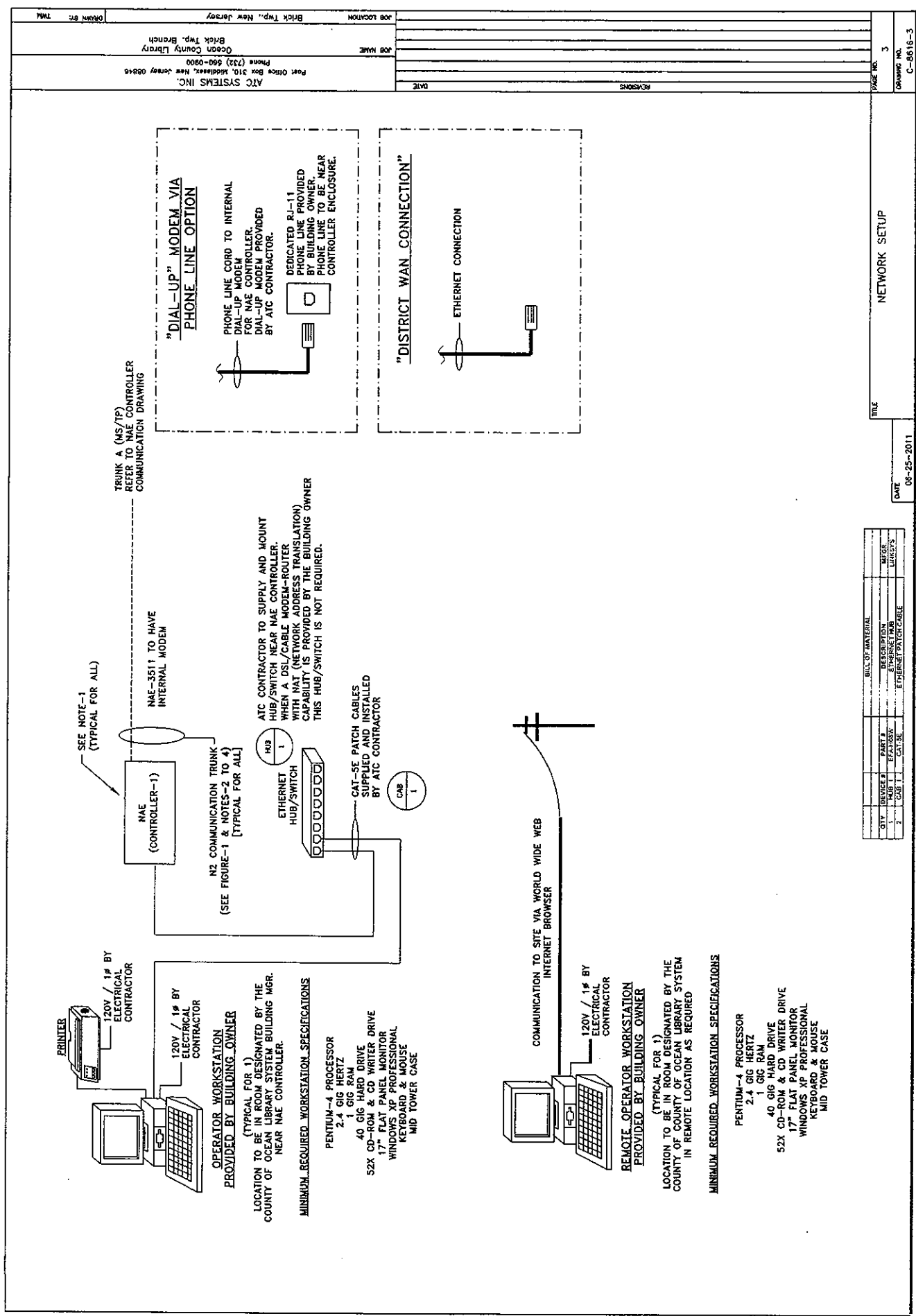
SEE NOTES ON THIS DRAWING



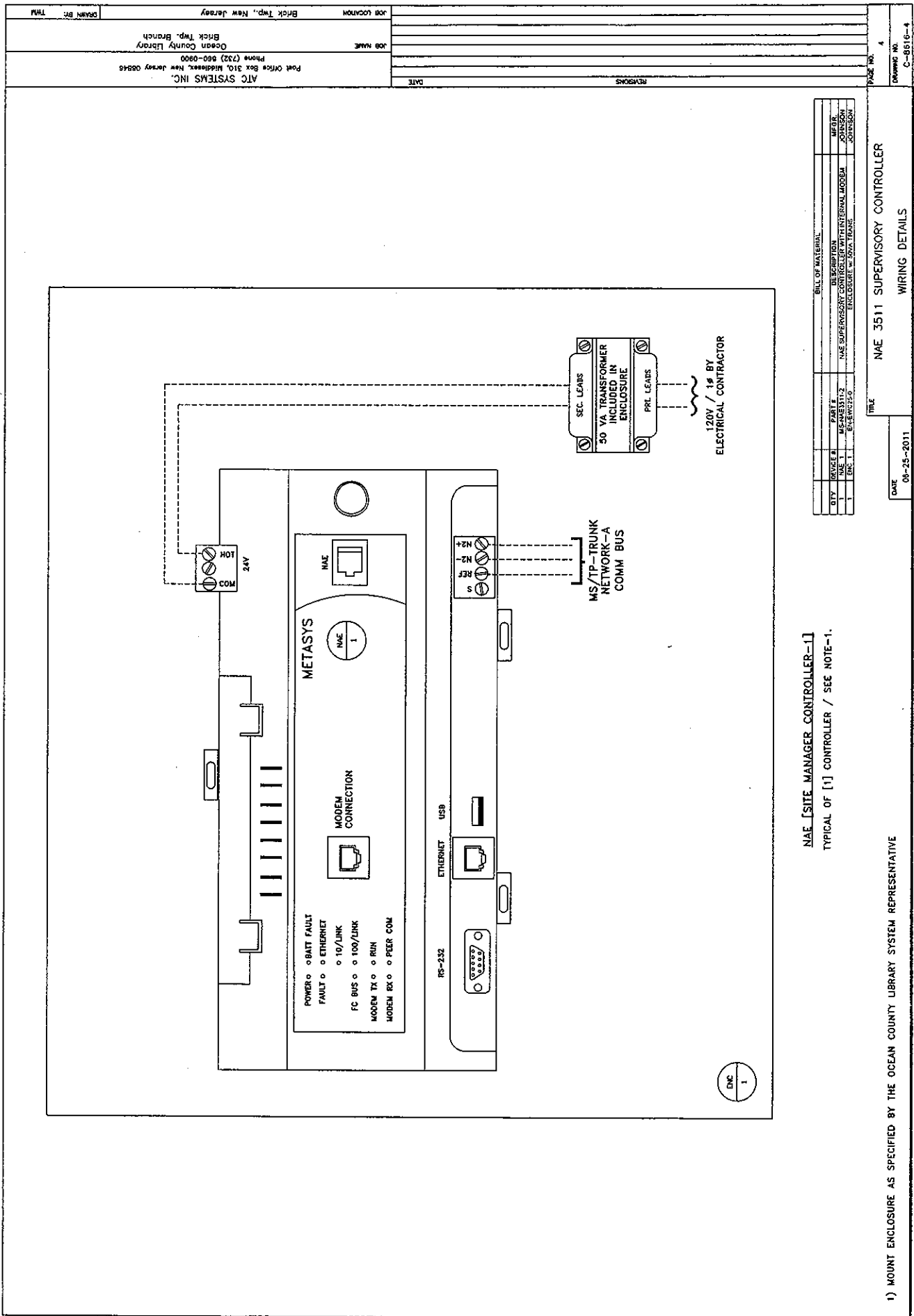
NOTES:

- 1) MASTER DEVICE (BINARY) ADDRESS RANGE IS "4 TO 127" AND USED FOR:
FC BUS DEVICES: FEC, YMA1600, IOM, TEC26xx
SA BUS DEVICES: IOM
- SLAVE DEVICE (BINARY) ADDRESS RANGE IS "128 TO 254" AND USED FOR:
SA BUS DEVICES: "NS"-NETWORK SENSORS, VARIABLE FREQUENCY DRIVES [VFD/VSD]
- 2) FC BUS:
FOR ALL JOHNSON CONTROLS DEVICES:
50-NODES (DEVICES) PER SEGMENT
100-NODES (DEVICES) MAXIMUM
5,000-FEET PER SEGMENT TRUNK LENGTH
15,000-FEET MAXIMUM TRUNK LENGTH
FOR THIRD PARTY DEVICES (I.E. TEC THERMOSTATS):
32-NODES (DEVICES) PER SEGMENT
64-NODES (DEVICES) MAXIMUM
4,000-FEET PER SEGMENT TRUNK LENGTH
12,000-FEET MAXIMUM TRUNK LENGTH
SET END-OF-LINE (EOL) JUMPERS TO "ON" ONLY FOR THE CONTROLLER AT THE BEGINNING AND AT THE END OF THE COMMUNICATION BUS SEGMENT. THE TEC THERMOSTAT DOES NOT HAVE AN INTERNAL EOL AND THEREFORE CANNOT BE AT THE END OF THE TRUNK WITHOUT ADDING AN EXTERNAL EOL.
- 3) SA COMMUNICATION BUS:
10-NODES (DEVICES) MAXIMUM
1,200-FEET MAXIMUM TRUNK LENGTH
THE END-OF-LINE (EOL) JUMPERS ARE FIXED IN THE "ON" POSITION AT THE FEC/YMA CONTROLLER(S) WHICH ARE AT THE BEGINNING OF THE COMMUNICATION BUS.





BILL OF MATERIAL			
QTY	UNITS	PART #	DESCRIPTION
1	PAIR	ETHERNET	ETHERNET PAIR
1	PAIR	ETHERNET	ETHERNET PAIR
1	PAIR	ETHERNET	ETHERNET PAIR



NAE [SITE MANAGER CONTROLLER-1]
TYPICAL OF [1] CONTROLLER / SEE NOTE-1.

BILL OF MATERIAL		DESCRIPTION		MFR.	
QTY	DEVICE #	PART #	DESCRIPTION	NAE 3511-2	JOHNSON
1	NAE 1	MS-NAE3511-2	NAE SUPERVISORY CONTROLLER WITH INTERNAL MODEM		
1	ENC 1	ENC 1	ENCLOSURE - 50VA TRANSFORMER		

DATE 08-25-2011
TITLE NAE 3511 SUPERVISORY CONTROLLER
WIRING DETAILS

REVISIONS
DATE

JOB NAME Ocean County Library
Brick Twp. Branch

JOB LOCATION Brick Twp., New Jersey

ATC SYSTEMS INC.
Post Office Box 310, Middletown, New Jersey 08045
Phone (732) 860-0900

DRAWN BY TMM

DESIGNED BY

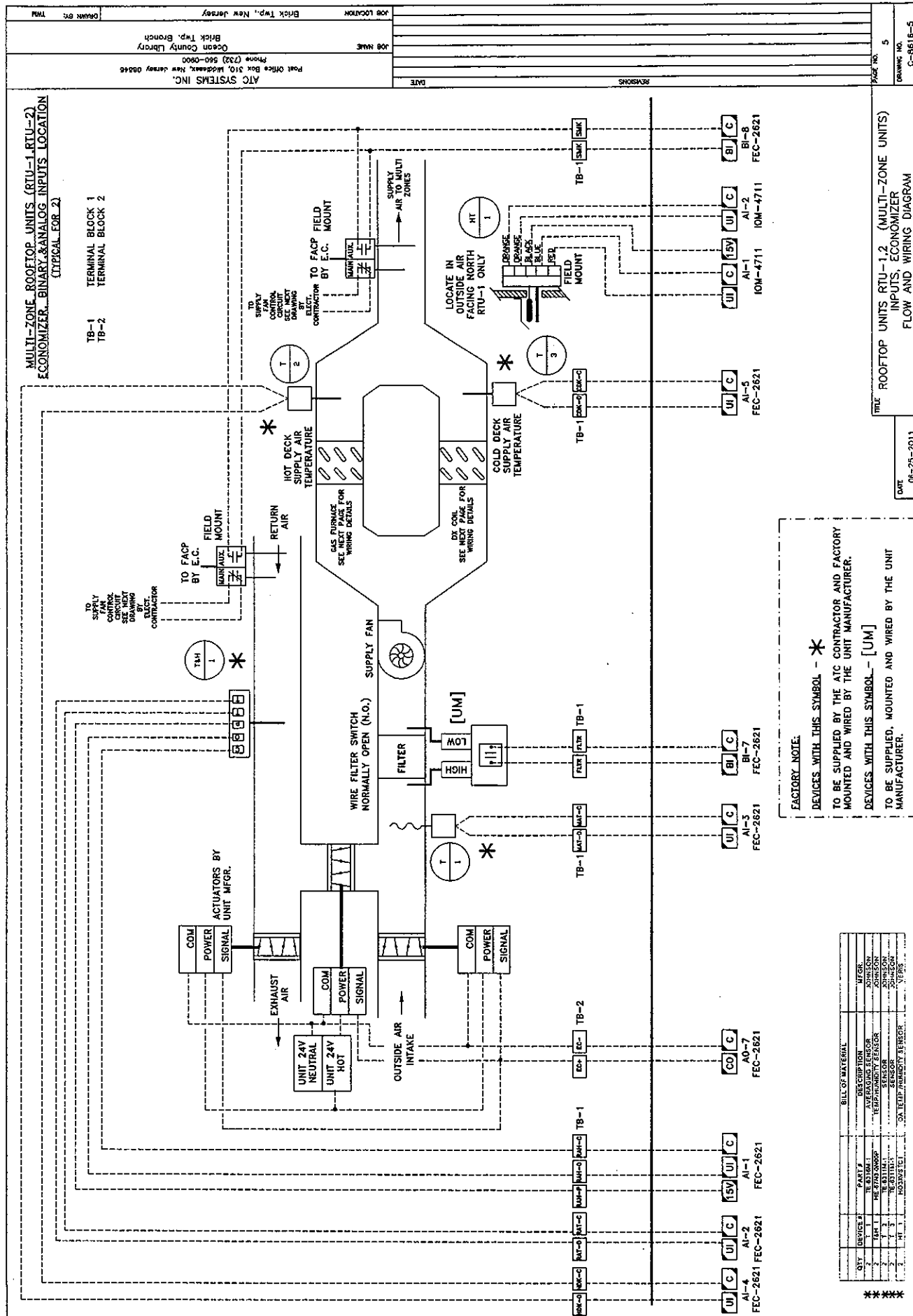
CHECKED BY

APPROVED BY

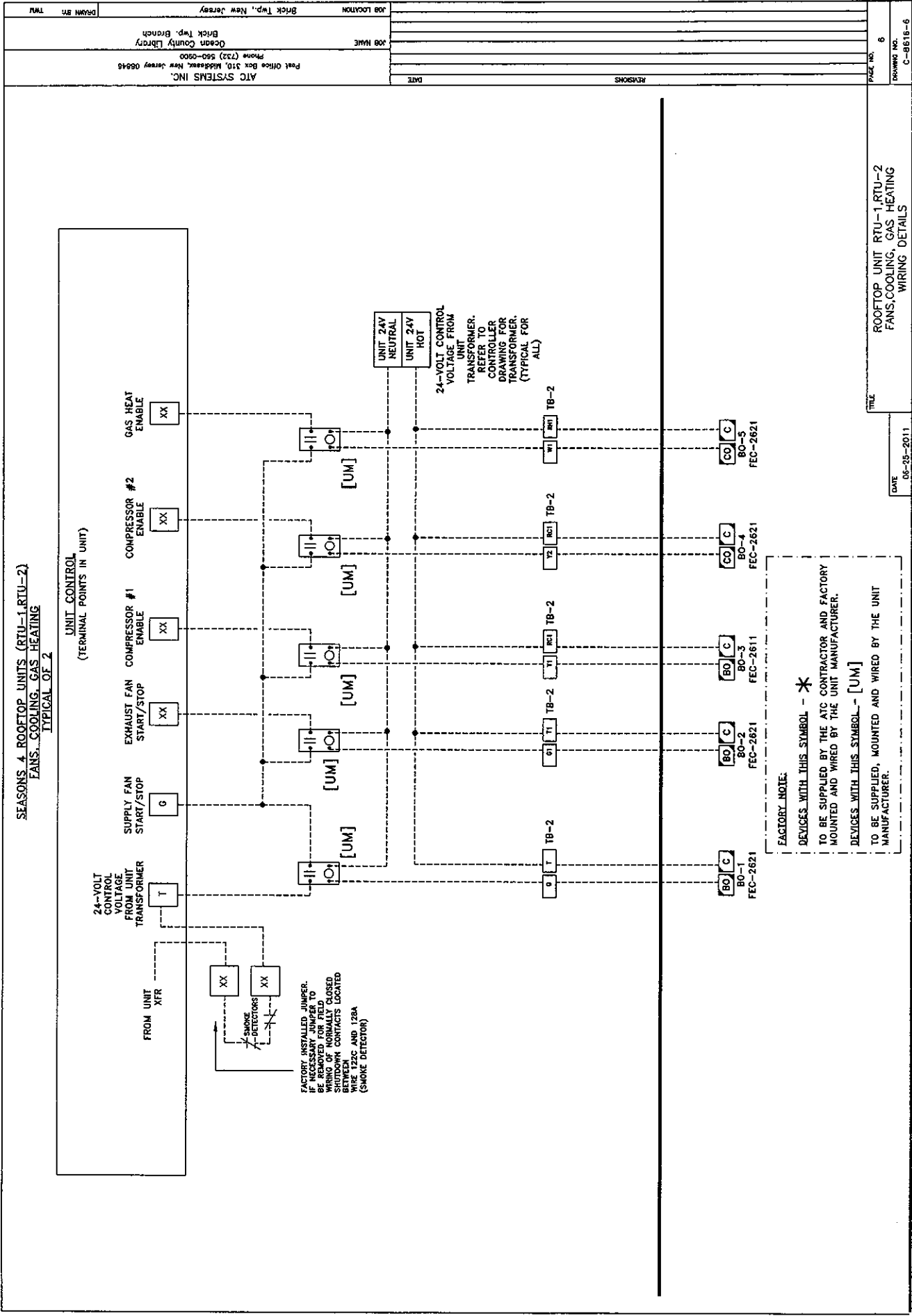
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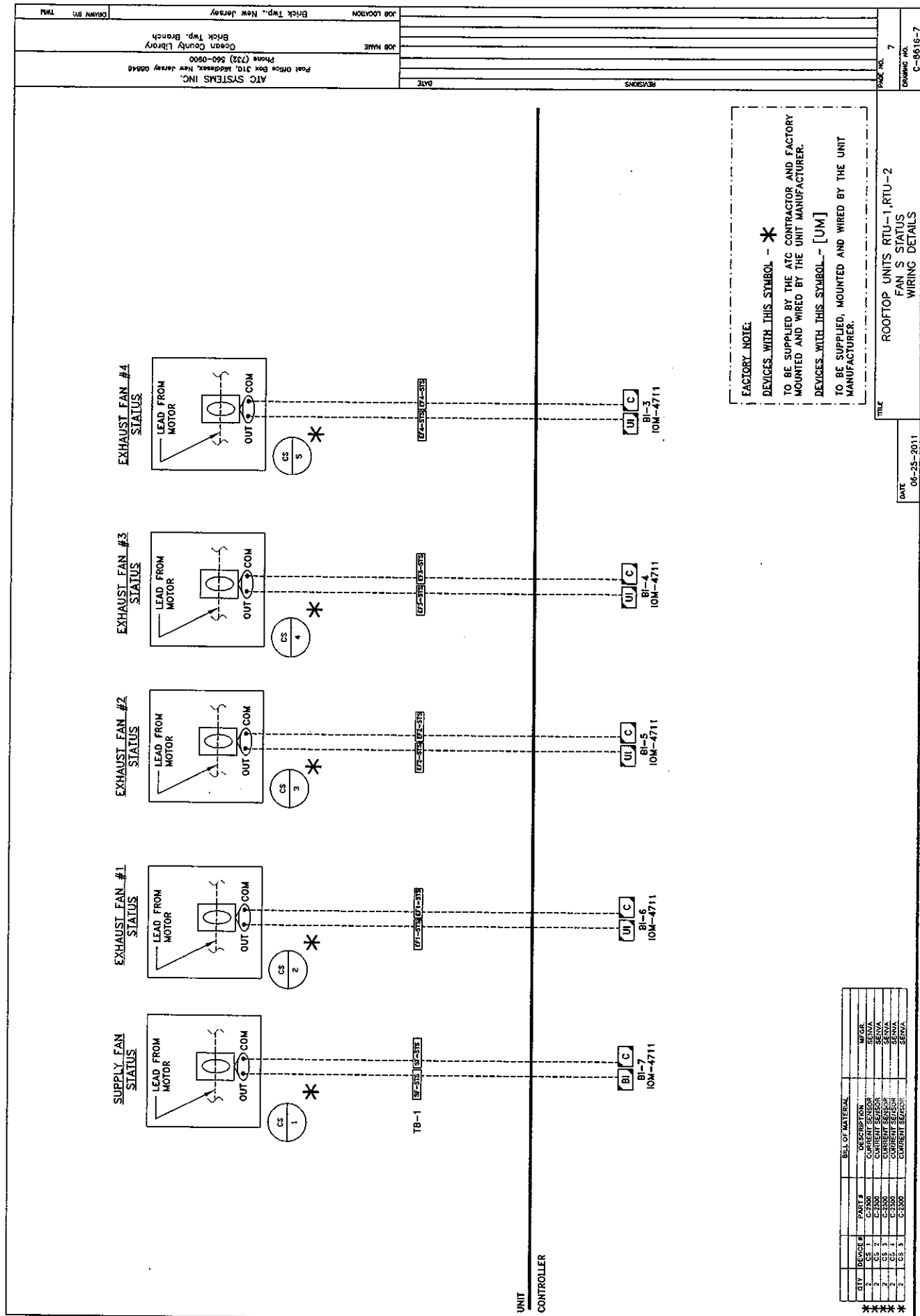
PROJECT NO.

PROJECT NAME



QTY	DEVICE #	PART #	DESCRIPTION	WGR
2	1	TE-01001	AVERAGE ERROR	JOHNSON
2	1	HE-01000	TEMPERATURE SENSOR	JOHNSON
2	1	TE-01001	SERVO	JOHNSON
2	1	HE-01000	TEMPERATURE SENSOR	JOHNSON
2	1	TE-01001	SERVO	JOHNSON
2	1	HE-01000	TEMPERATURE SENSOR	JOHNSON





JOB LOCATION		Brick Twp., New Jersey	
JOB NAME		Ocean County Library Brick Twp. Branch	
DATE		Post Office Box 310, Middletown, New Jersey 08040 Phone (732) 560-0800	
DRAWN BY		TMA	

REVISIONS	

PAGE NO.		7	
DRAWING NO.		C-8616-7	
TITLE		ROOFTOP UNITS RTU-1, RTU-2 FAN S STATUS WIRING DETAILS	
DATE	06-25-2011		

BILL OF MATERIAL		MFG.	
QTY	DESCRIPTION	PART #	
1	CURRENT SENSOR	C-3500	SENA
1	CURRENT SENSOR	C-3500	SENA
1	CURRENT SENSOR	C-3500	SENA
1	CURRENT SENSOR	C-3500	SENA
1	CURRENT SENSOR	C-3500	SENA

FEC 2621 CONTROLLER POINT LIST

IN1 (A1) = RETURN AIR HUMIDITY
IN2 (A1) = RETURN AIR TEMPERATURE
IN3 (A1) = MIXED AIR TEMPERATURE
IN4 (A1) = HOT DECK SUPPLY AIR TEMPERATURE
IN5 (A1) = COLD DECK SUPPLY AIR TEMPERATURE
IN6 (A1) = SPARE

IN7 (B1) = FILTER STATUS
IN8 (B1) = SMOKE DETECTOR

OUT1 (BO) = SUPPLY FAN START/STOP
OUT2 (BO) = EXHAUST AIR FAN START/STOP
OUT3 (BO) = COMPRESSOR #1 ENABLE

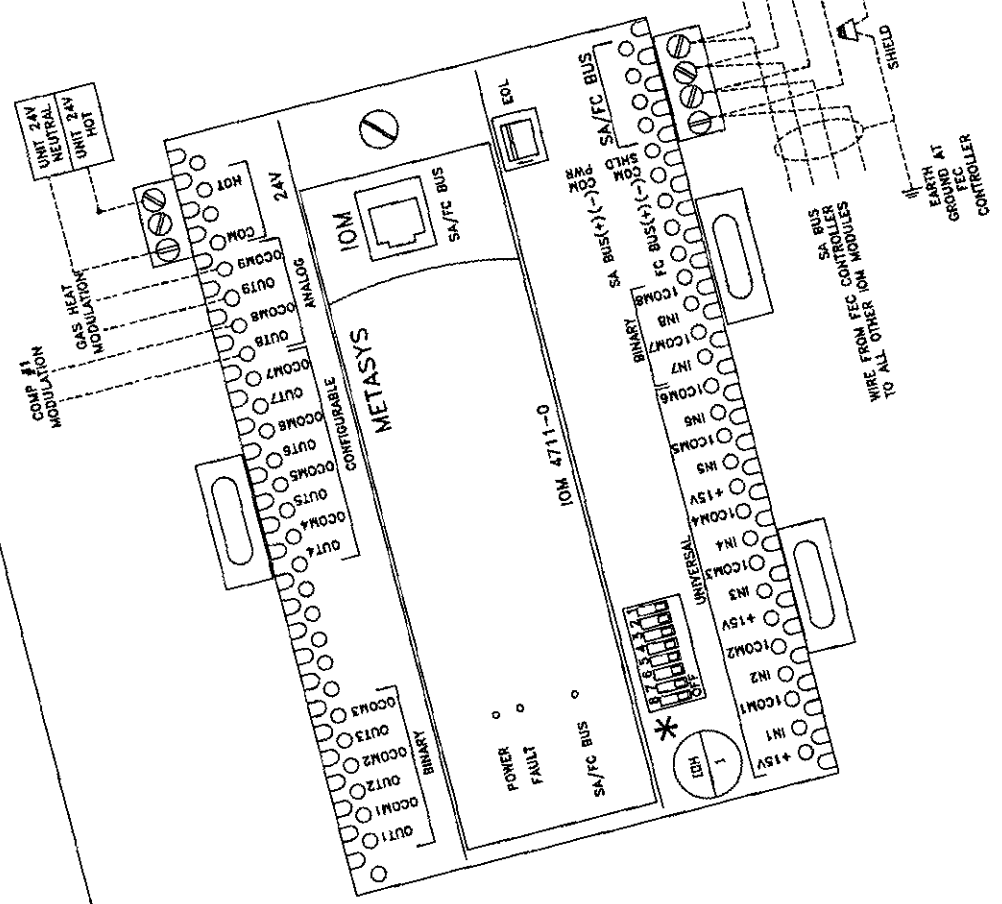
OUT4 (BO) = COMPRESSOR #2 ENABLE
OUT5 (AO) = HEATING ENABLE
OUT6 (AO/BO) = SPARE
OUT7 (AO) = ECONOMIZER CONTROL

OUT8 (AO) = SUPPLY FAN VFD SPEED CONTROL
OUT9 (AO) = EXHAUST FAN VFD SPEED CONTROL

ICM BOARD ICM-4711



ATC SYSTEMS INC. Post Office Box 510, Middletown, New Jersey 08044 Ocean County Branch Brick Twp., New Jersey Phone (201) 580-0900		JOB LOCATION Brick Twp., New Jersey
JOB NAME Brick Twp., New Jersey		DATE 10
DRAWN BY TNA		CHECKED BY TNA



FACTORY NOTE
 DEVICES WITH THIS SYMBOL - *
 TO BE SUPPLIED BY THE ATC CONTRACTOR AND FACTORY.
 TO BE SUPPLIED BY THE UNIT MANUFACTURER.
 MOUNTED AND WIRED BY THE UNIT
 MANUFACTURER.
 DEVICES WITH THIS SYMBOL - [UM]
 TO BE SUPPLIED, MOUNTED AND WIRED BY THE UNIT
 MANUFACTURER.

ROOFTOP UNITS RTU-1, RTU-2

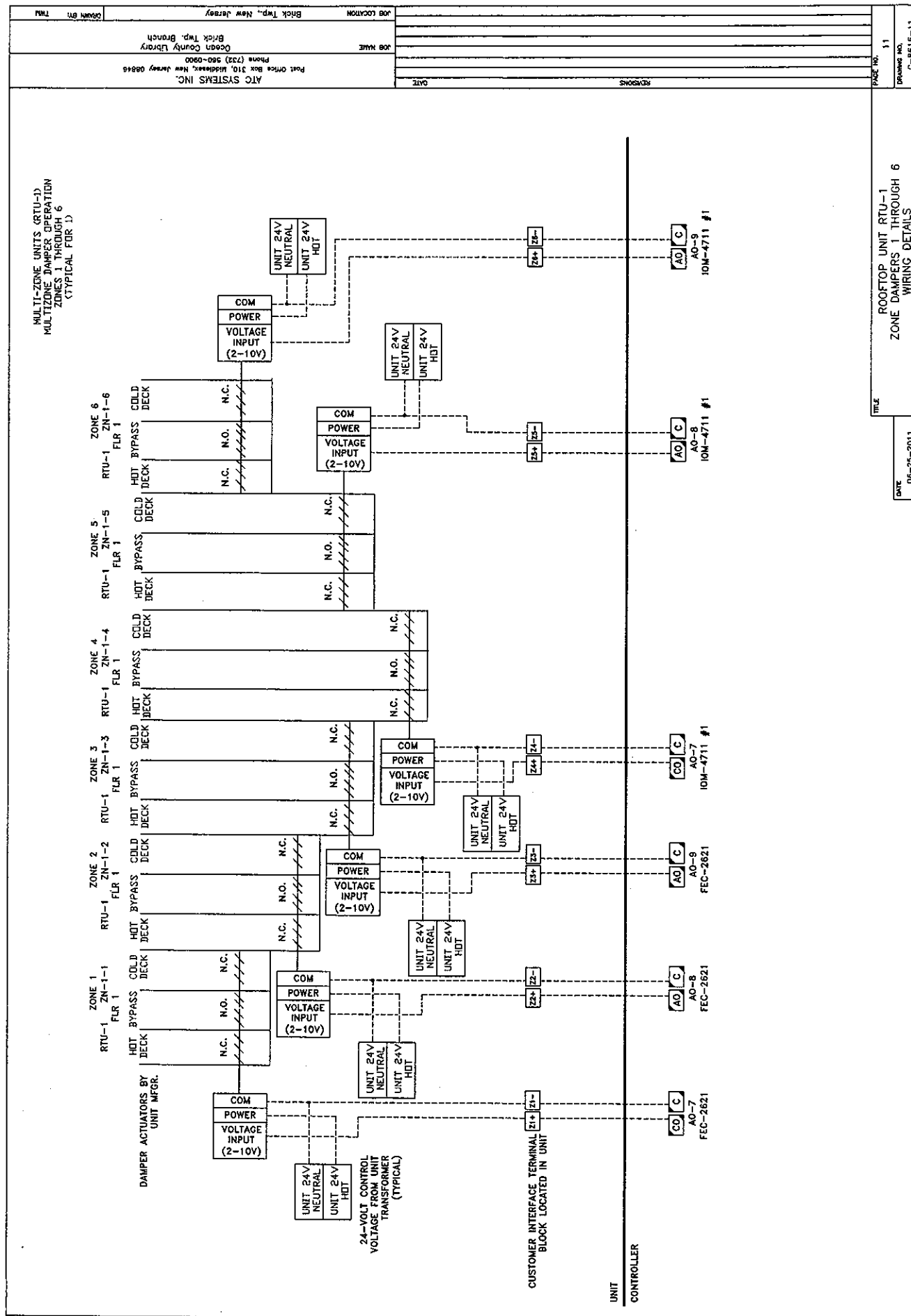
DATE 08-25-2011

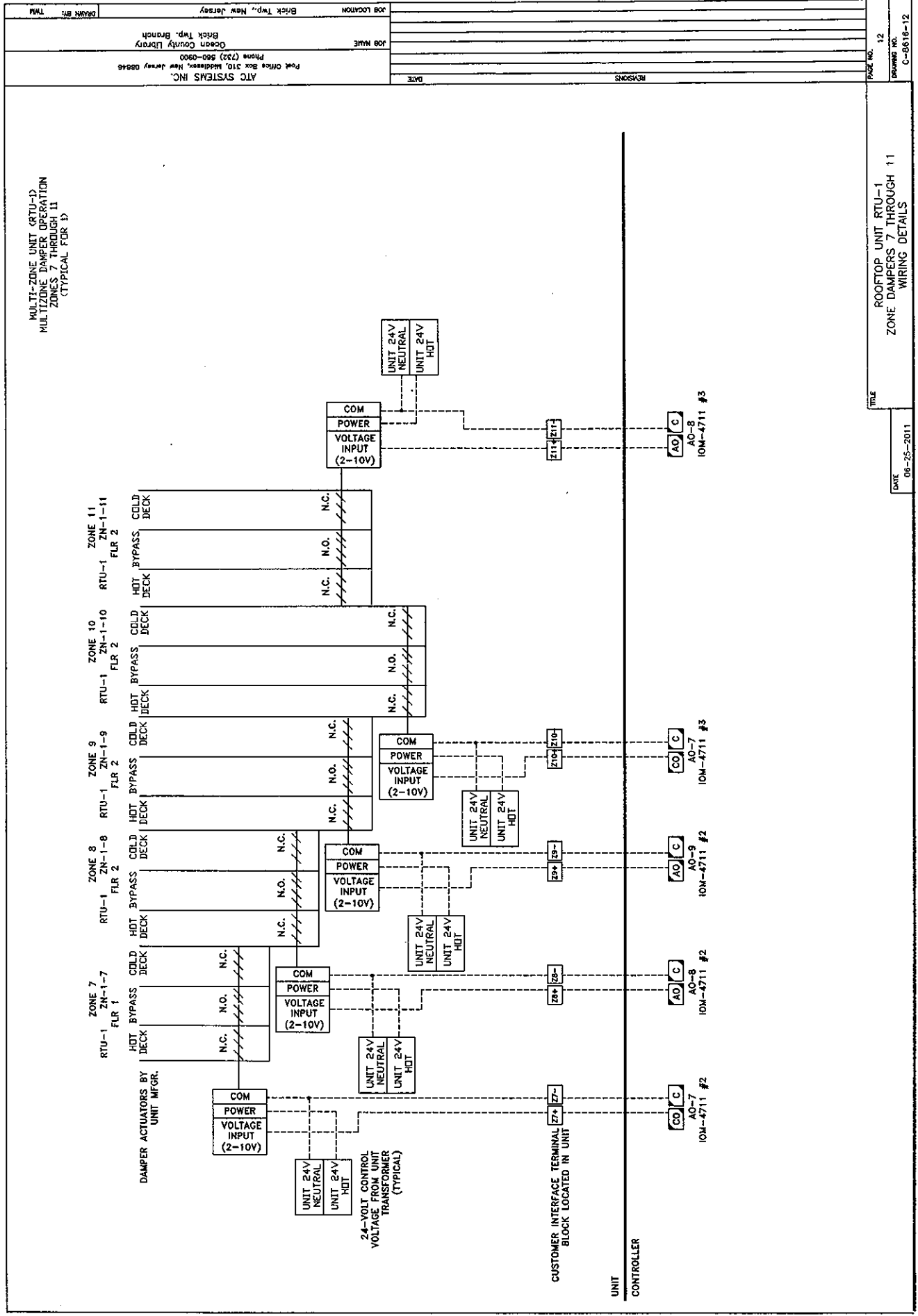
C-0018-10

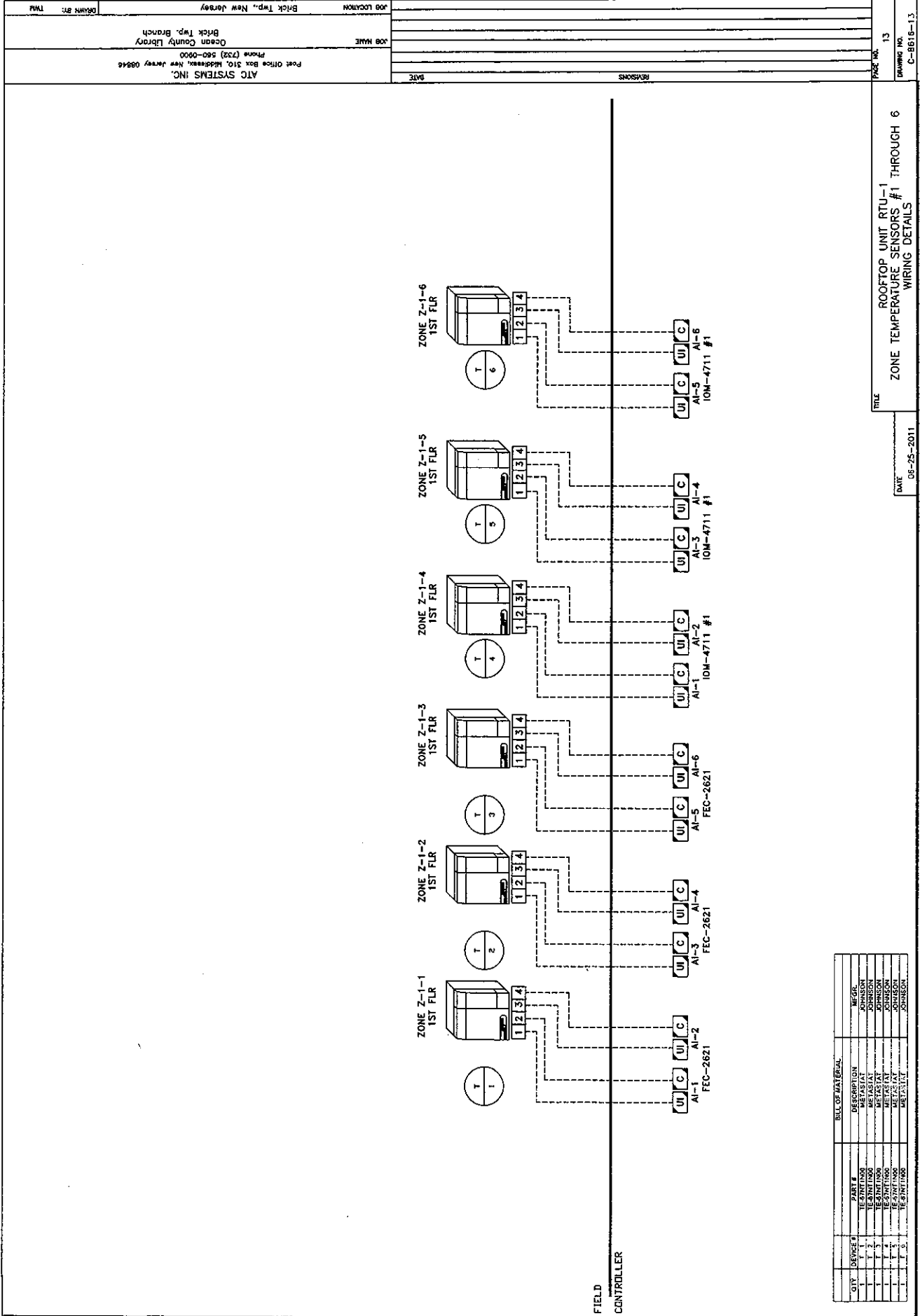
MOUNTED NEXT TO FEC CONTROLLER IN UNIT

- IOM 4711 CONTROLLER POINT LIST**
- UNIVERSAL INPUTS (AUBI)**
- IN1 (AI) = OUTSIDE AIR HUMIDITY (RTU-1 ONLY)
 - IN2 (AI) = OUTSIDE AIR TEMPERATURE (RTU-1 ONLY)
 - IN3 (BI) = EXHAUST FAN #1 STATUS
 - IN4 (BI) = EXHAUST FAN #2 STATUS
 - IN5 (BI) = EXHAUST FAN #3 STATUS
 - IN6 (BI) = EXHAUST FAN #4 STATUS
- BINARY INPUTS (BI)**
- INT (BI) = SUPPLY FAN STATUS
 - IN8 (BI) = SPARE
- BINARY OUTPUTS (BO)**
- OUT1 (BO) = SPARE
 - OUT2 (BO) = SPARE
 - OUT3 (BO) = SPARE
- BINARY OUTPUTS CONFIGURABLE (BO/AD)**
- OUT4 (BO) = SPARE
 - OUT5 (BO) = SPARE
 - OUT6 (BO) = SPARE
 - OUT7 (AO) = SPARE
- ANALOG OUTPUTS (AO)**
- OUT8 (AO) = COMPRESSOR #1 MODULATION
 - OUT9 (AO) = GAS HEATING MODULATION

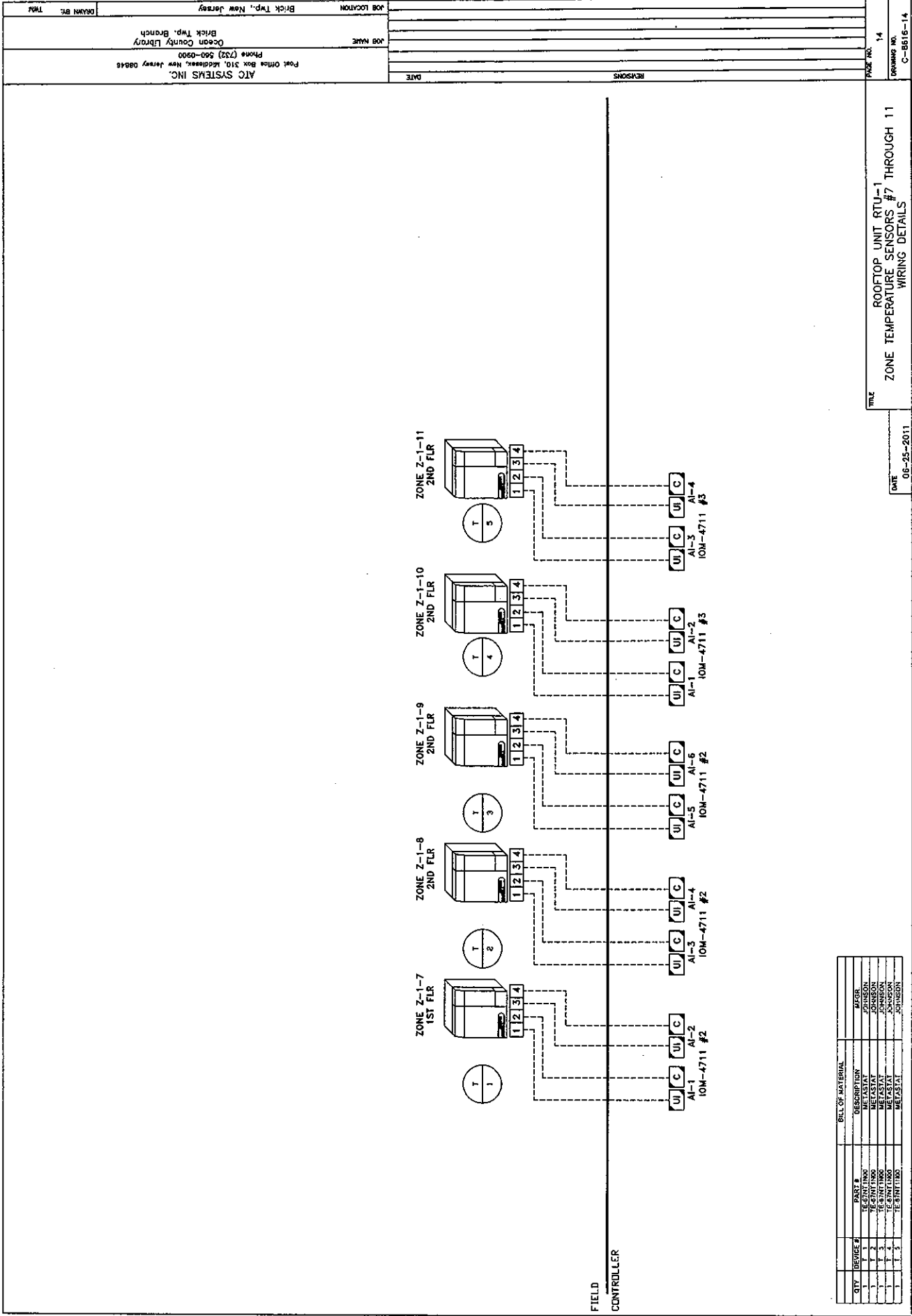
QTY	DESCRIPTION	REVISION	DATE	BY	CHKD	APP'D
1	WIRE	1	08-25-2011	TNA		







BILL OF MATERIAL		DESCRIPTION		MFG.	
QTY	DEVICE #	PART #	DESCRIPTION	MFG.	
1	1	TE-211100	TERMINAL BLOCK	JOHNSON	
1	1	TE-211100	TERMINAL BLOCK	JOHNSON	
1	1	TE-211100	TERMINAL BLOCK	JOHNSON	
1	1	TE-211100	TERMINAL BLOCK	JOHNSON	
1	1	TE-211100	TERMINAL BLOCK	JOHNSON	
1	1	TE-211100	TERMINAL BLOCK	JOHNSON	
1	1	TE-211100	TERMINAL BLOCK	JOHNSON	



QTY	BRIDGE #	DATE	DESCRIPTION	APPROVED
1	1	TE 4/27/10	METASTAT	JOHNSON
1	2	TE 4/27/10	METASTAT	JOHNSON
1	3	TE 4/27/10	METASTAT	JOHNSON
1	4	TE 4/27/10	METASTAT	JOHNSON

DATE 06-25-2011

TIME 14

ZONE TEMPERATURE SENSORS #7 THROUGH 11

WIRING DETAILS

JOB LOCATION Brick Twp., New Jersey

JOB NAME Ocean County Library
 Brick Twp. Branch
 Phone (732) 560-0500
 Post Office Box 310, Atlantic City, New Jersey 08405

DATE

REVISIONS

DRAWN BY: TWA

CONTROLLER MOUNTED IN ENCLOSURE IN CLOSET UNDER RTU-1

FEC 2621 CONTROLLER POINT LIST

UNIVERSAL INPUTS (AI/BI)

- IN1 (AI) = Z-1-1 SPACE TEMPERATURE
- IN2 (AI) = Z-1-1 SETPOINT ADJUSTMENT
- IN3 (AI) = Z-1-2 SPACE TEMPERATURE
- IN4 (AI) = Z-1-2 SETPOINT ADJUSTMENT
- IN5 (AI) = Z-1-3 SPACE TEMPERATURE
- IN6 (AI) = Z-1-3 SETPOINT ADJUSTMENT

BINARY INPUTS (BI)

- IN7 (BI) = SPARE
- IN8 (BI) = SPARE

BINARY OUTPUTS (BO)

- OUT1 (BO) = SPARE
- OUT2 (BO) = SPARE
- OUT3 (BO) = SPARE

BINARY OUTPUTS CONFIGURABLE (BO/AO)

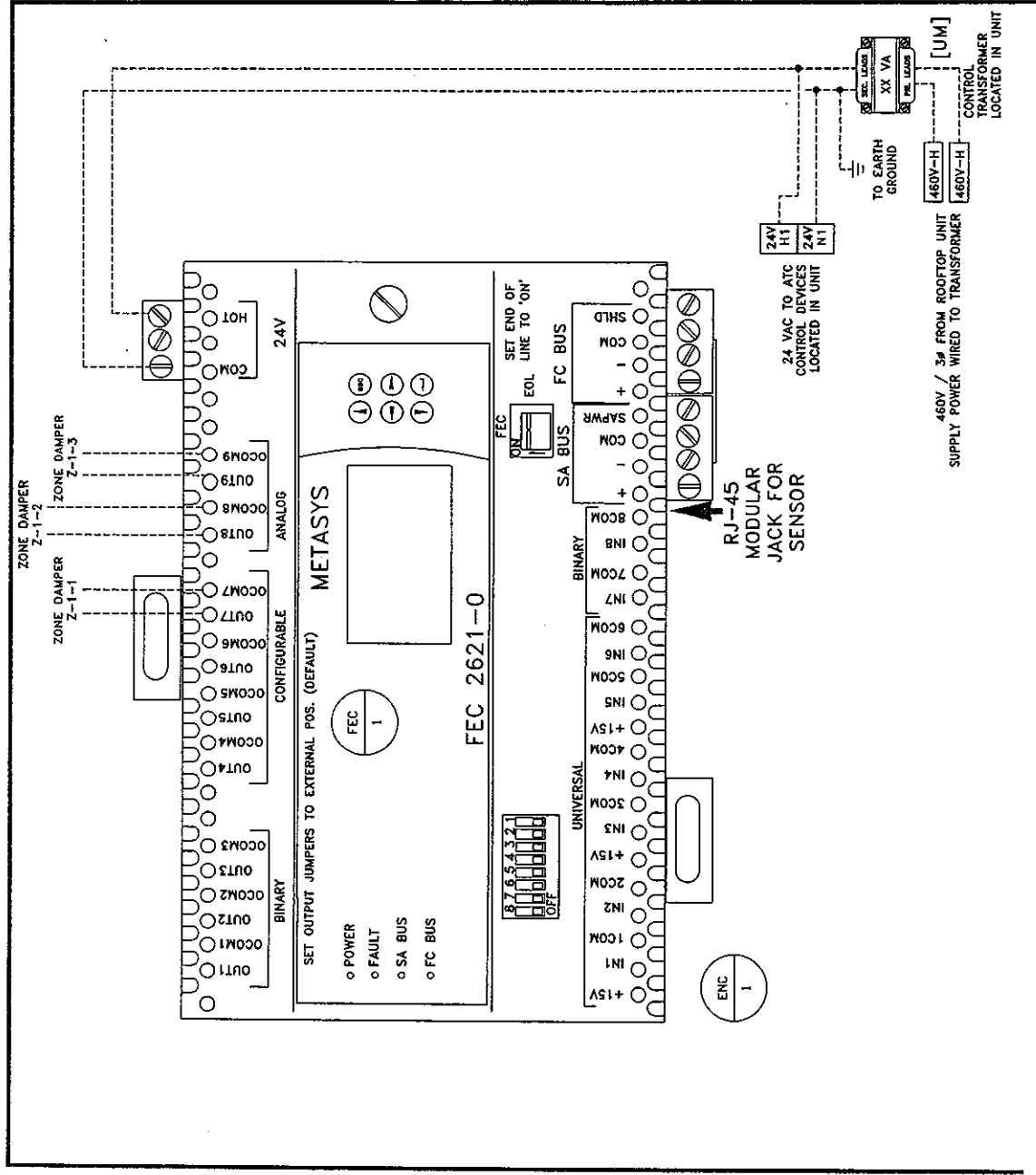
- OUT4 (AO/BO) = SPARE
- OUT5 (AO/BO) = SPARE
- OUT6 (AO/BO) = SPARE
- OUT7 (AO) = Z-1-1 DAMPER ACTUATOR CONTROL

ANALOG OUTPUTS (AO)

- OUT8 (AO) = Z-1-2 DAMPER ACTUATOR CONTROL
- OUT9 (AO) = Z-1-3 DAMPER ACTUATOR CONTROL

SA BUS

- ICM BOARD ICM-4711 #1
- ICM BOARD ICM-4711 #2
- ICM BOARD ICM-4711 #3



BILL OF MATERIAL		DESCRIPTION	
QTY	DEVICE #	PART #	DESCRIPTION
1	ENC 1	ENC 1	ENCLOSURE
1	ENC 1	ENC 1	ENCLOSURE

FILE

DATE 06-25-2011

ROOFTOP UNIT RTU-1

ZONE CONTROL CONTROLLER

FEC CONTROLLER WIRING DIAGRAM AND POINTS LIST

PAGE NO. 15

REVISED BY

C-8818-15

ATC SYSTEMS INC.
Post Office Box 310, Middletown, New Jersey 08846
Phone (732) 560-0900
Ocean County Library
Brick Twp. Branch
Brick Twp., New Jersey

JOB LOCATION
DATE

REVISIONS

EXPANSION MODULE MOUNTED IN ENCLOSURE IN CLOSET UNDER
RTU-1

IOM-4711 CONTROLLER POINT LIST

UNIVERSAL INPUTS (AIBI)

- IN1 (AI) = Z-1-4 SPACE TEMPERATURE
- IN2 (AI) = Z-1-4 SETPOINT ADJUSTMENT
- IN3 (AI) = Z-1-5 SPACE TEMPERATURE
- IN4 (AI) = Z-1-5 SETPOINT ADJUSTMENT
- IN5 (AI) = Z-1-6 SPACE TEMPERATURE
- IN6 (AI) = Z-1-6 SETPOINT ADJUSTMENT

BINARY INPUTS (BI)

- IN7 (BI) = SPARE
- IN8 (BI) = SPARE

BINARY OUTPUTS (BO)

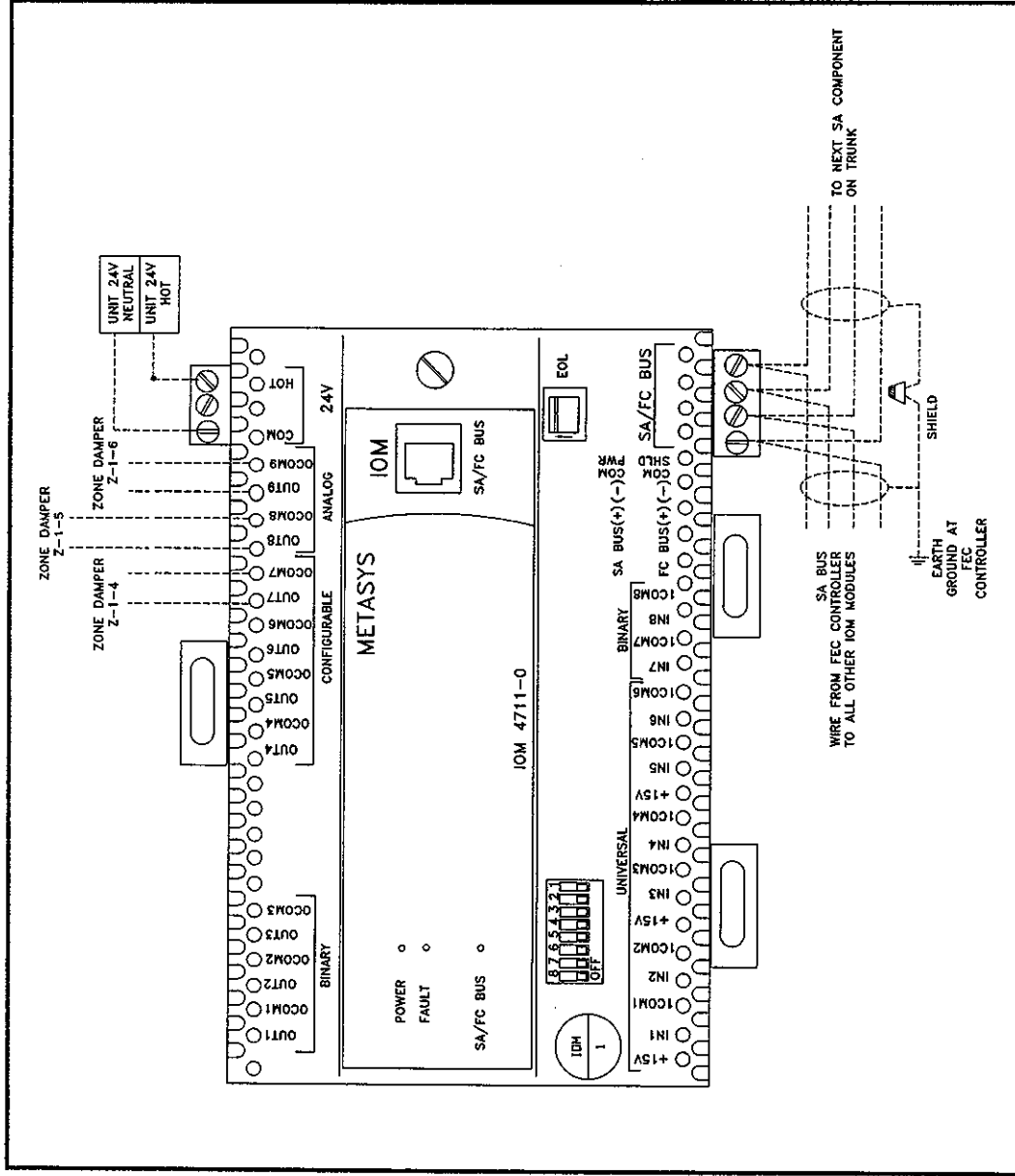
- OUT1 (BO) = SPARE
- OUT2 (BO) = SPARE
- OUT3 (BO) = SPARE

BINARY OUTPUTS CONFIGURABLE (BO/AO)

- OUT4 (AO/BO) = SPARE
- OUT5 (AO/BO) = SPARE
- OUT6 (AO/BO) = SPARE
- OUT7 (AO) = Z-1-4 DAMPER ACTUATOR CONTROL

ANALOG OUTPUTS (AO)

- OUT8 (AO) = Z-1-5 DAMPER ACTUATOR CONTROL
- OUT9 (AO) = Z-1-6 DAMPER ACTUATOR CONTROL



ATC SYSTEMS INC. Post Office Box 310, Middletown, New Jersey 08046 Phone (732) 560-0900		Job Name Ocean County Library Brick Twp. Branch		Job Location Brick Twp., New Jersey		Drawn By: TMA	
DATE		REVISIONS		PAGE NO. 16		DRAWING NO. C-8816-16	
TITLE		DATE		06-25-2011		ROOFTOP UNIT RTU-1 ZONE CONTROL CONTROLLER IOM EXP MODULE #1 WIRING DIAGRAM AND POINTS LIST	

EXPANSION MODULE MOUNTED IN ENCLOSURE IN CLOSET UNDER
RTU-1

ION-4711 CONTROLLER POINT LIST

UNIVERSAL INPUTS (AUIB)

- IN1 (AI) = Z-1-7 SPACE TEMPERATURE
- IN2 (AI) = Z-1-7 SETPOINT ADJUSTMENT
- IN3 (AI) = Z-1-8 SPACE TEMPERATURE
- IN4 (AI) = Z-1-8 SETPOINT ADJUSTMENT
- IN5 (AI) = Z-1-9 SPACE TEMPERATURE
- IN6 (AI) = Z-1-9 SETPOINT ADJUSTMENT

BINARY INPUTS (BI)

- IN7 (BI) = SPARE
- IN8 (BI) = SPARE

BINARY OUTPUTS (BO)

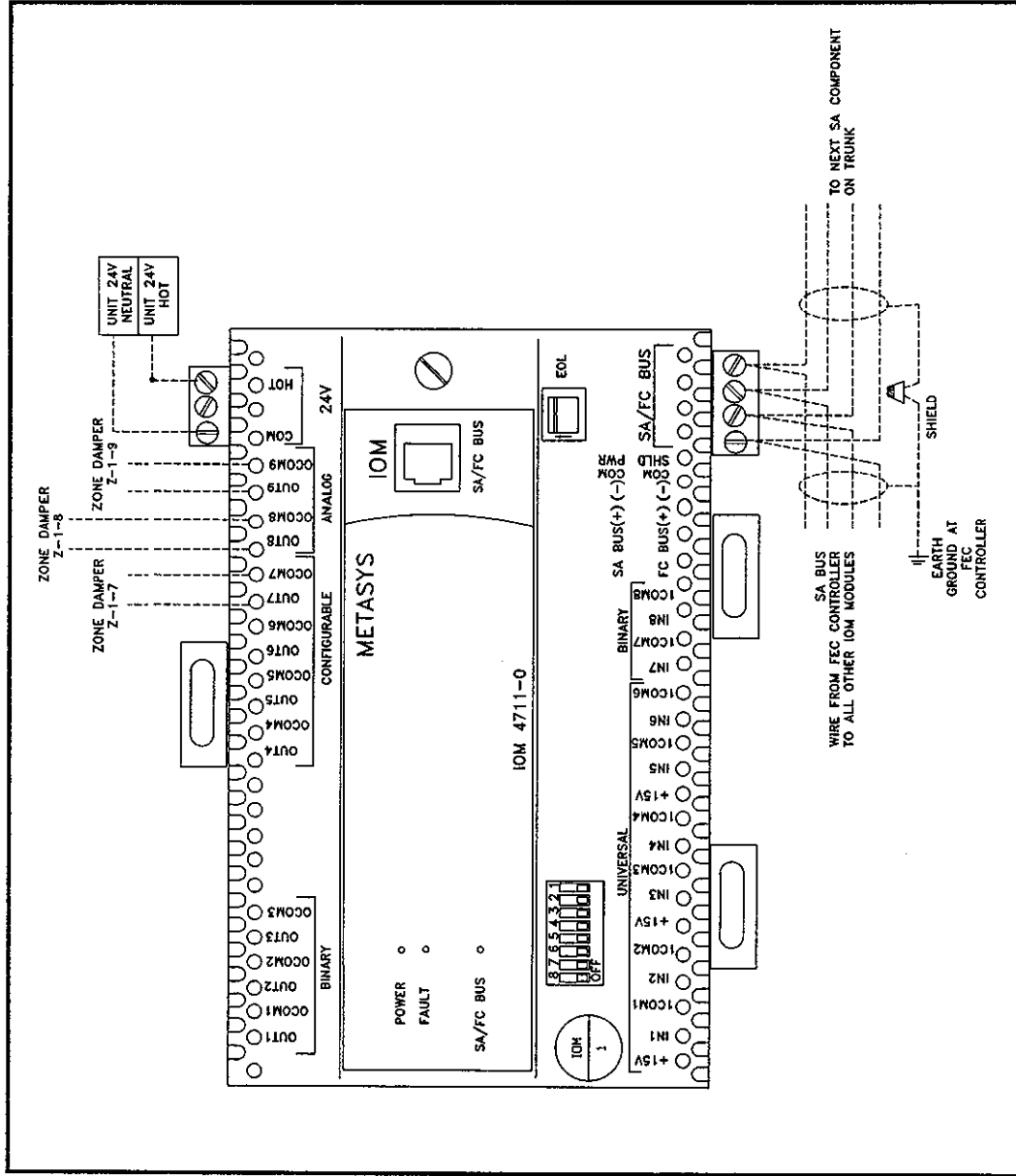
- OUT1 (BO) = SPARE
- OUT2 (BO) = SPARE
- OUT3 (BO) = SPARE

BINARY OUTPUTS CONFIGURABLE (BO/AO)

- OUT4 (AO/BO) = SPARE
- OUT5 (AO/BO) = SPARE
- OUT6 (AO/BO) = SPARE
- OUT7 (AO) = Z-1-7 DAMPER ACTUATOR CONTROL

ANALOG OUTPUTS (AO)

- OUT8 (AO) = Z-1-8 DAMPER ACTUATOR CONTROL
- OUT9 (AO) = Z-1-9 DAMPER ACTUATOR CONTROL



QTY	DEVICE #	PART #	DESCRIPTION	MFGR.
1	ION 1	MS-ION-4711-0	17 POINT EXPANSION CONTROLLER	JOHNSON

BILL OF MATERIAL				
QTY	DEVICE #	PART #	DESCRIPTION	MFGR.
1	ION 1	MS-ION-4711-0	17 POINT EXPANSION CONTROLLER	JOHNSON

ION EXP MODULE #2 WIRING DIAGRAM AND POINTS LIST

DATE 08-23-2011

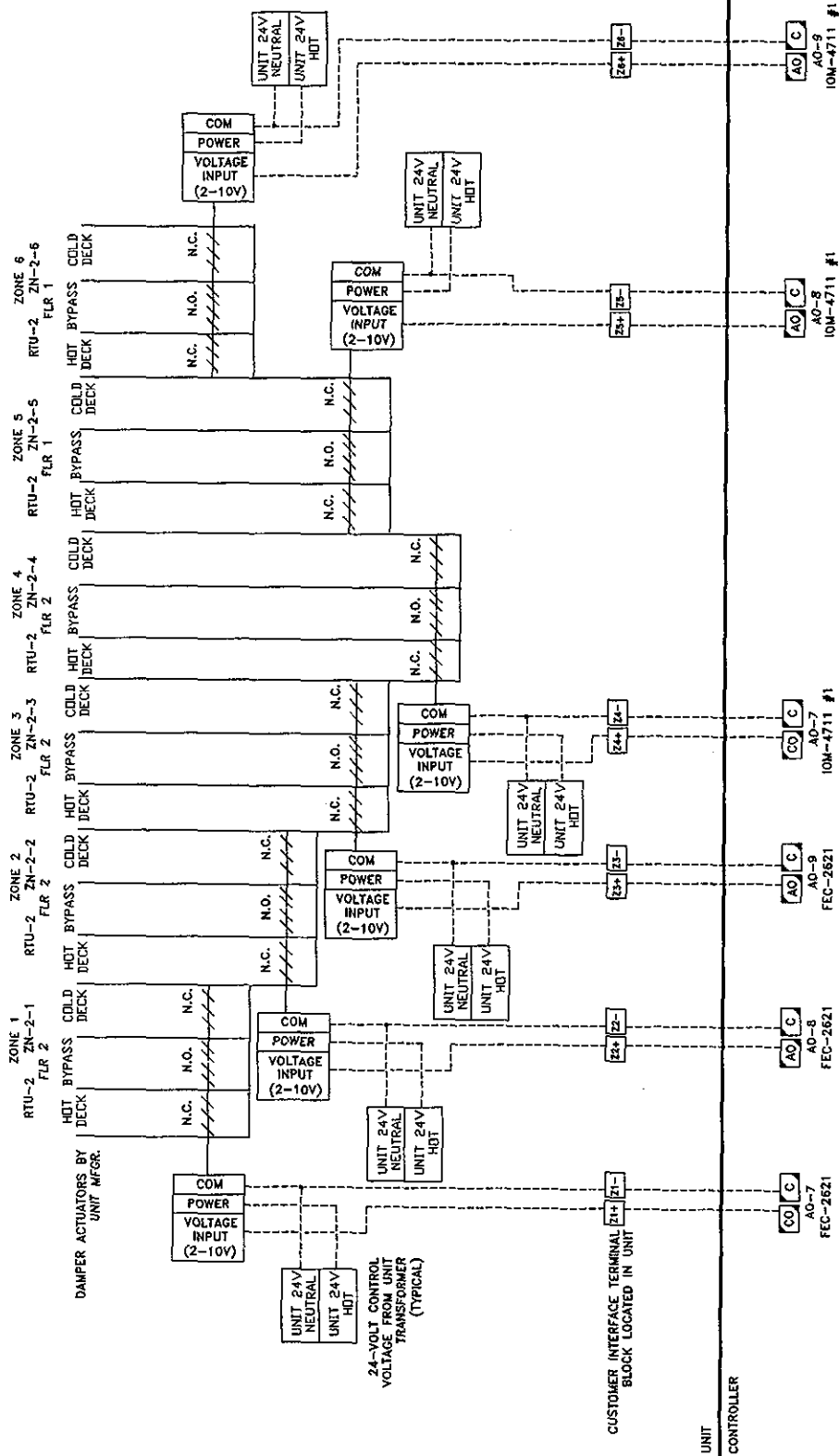
ROOFTOP UNIT RTU-1
ZONE CONTROL CONTROLLER

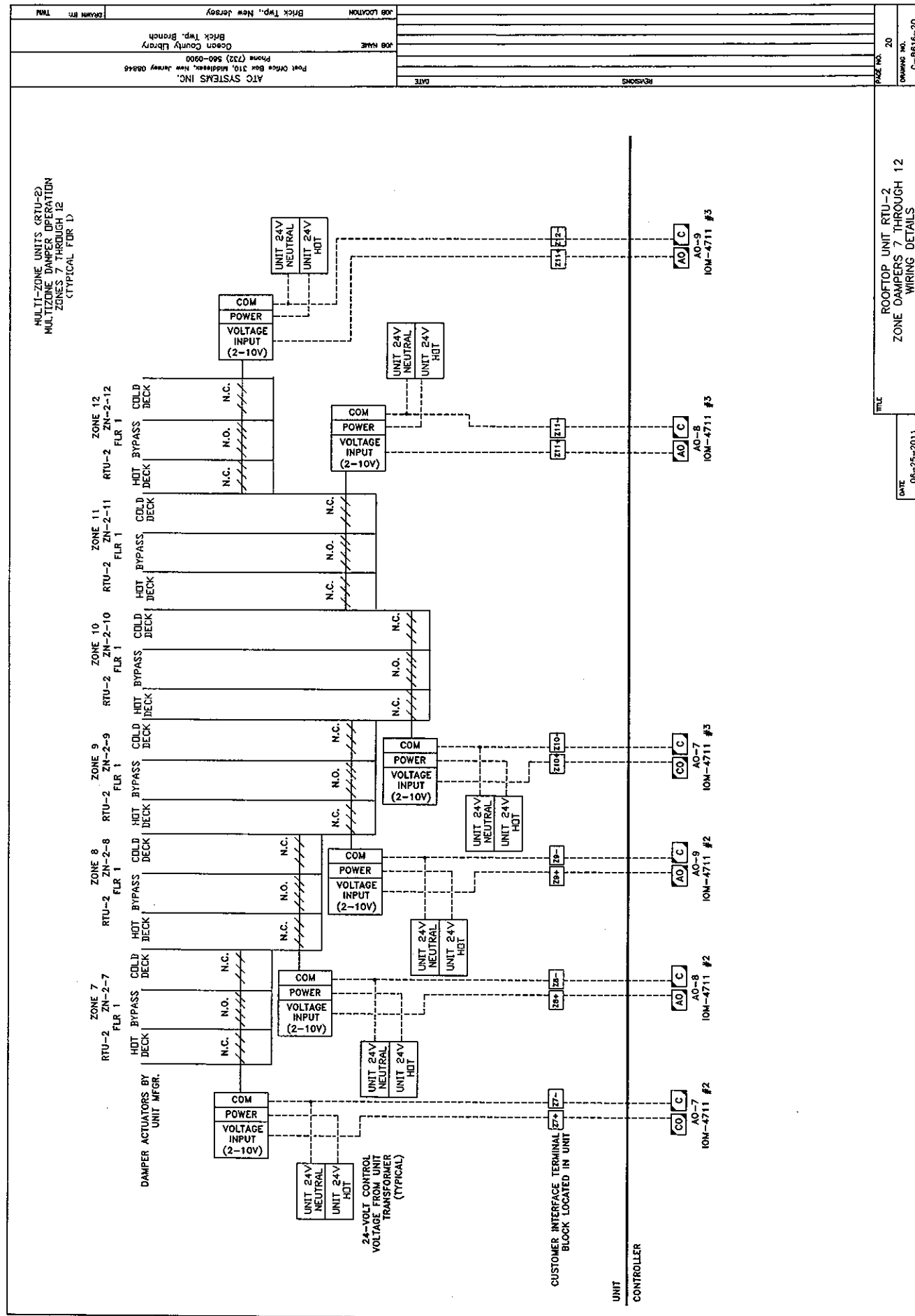
ION EXP MODULE #2 WIRING DIAGRAM AND POINTS LIST

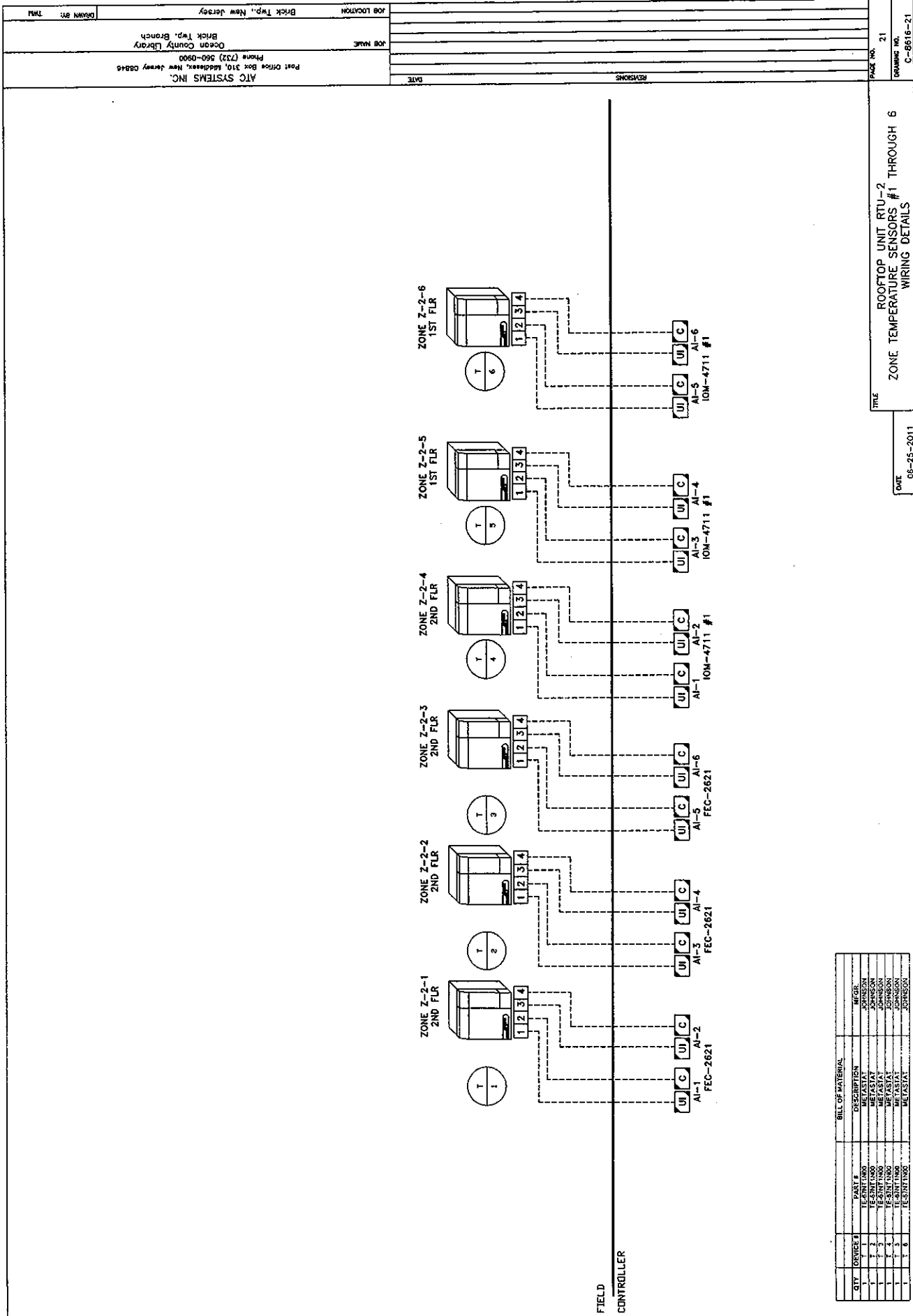
DATE 08-23-2011

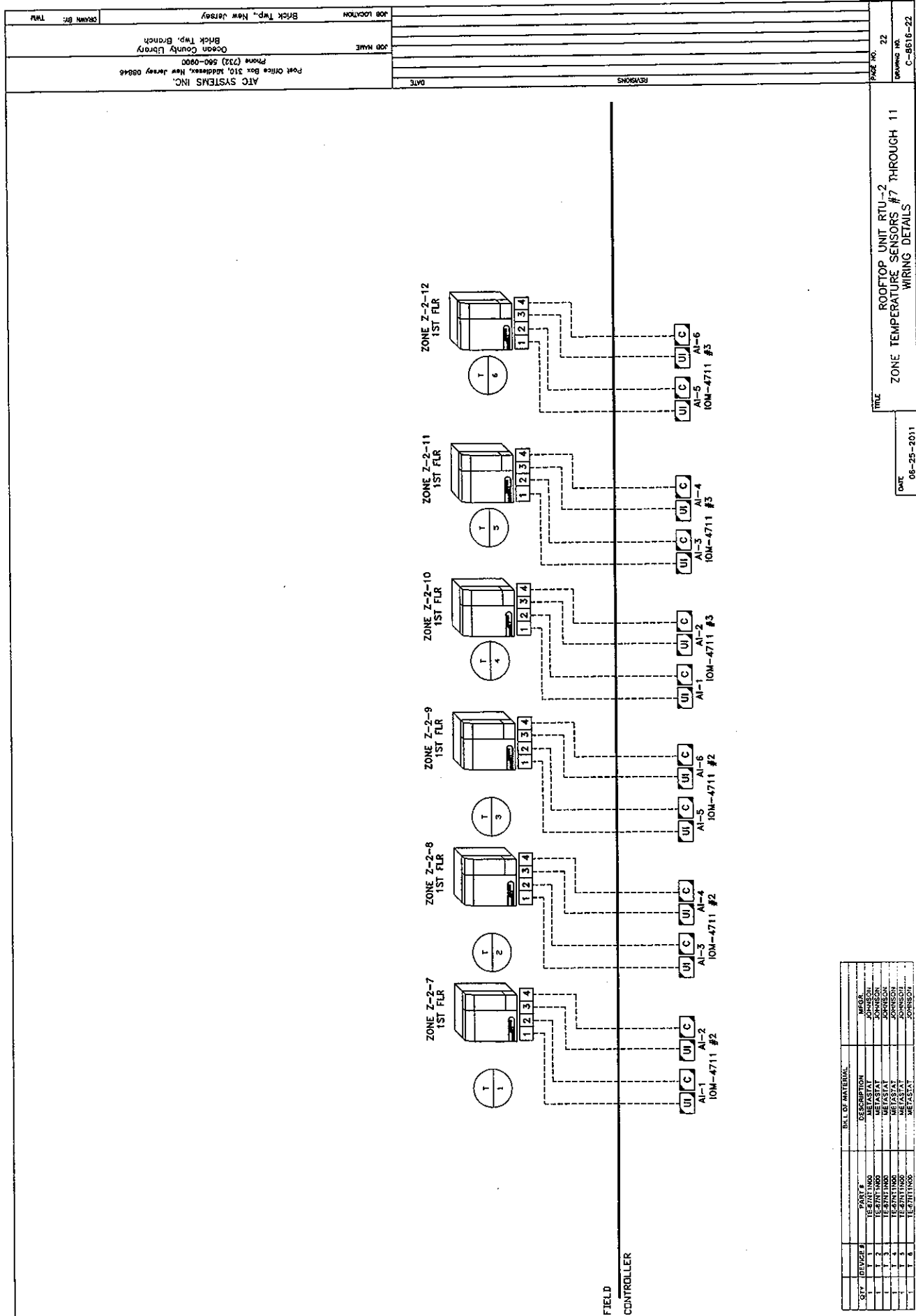
ION EXP MODULE #2 WIRING DIAGRAM AND POINTS LIST

MULTI-ZONE UNITS (RTU-2)
MULTI-ZONE DAMPER OPERATION
ZONES 1 THROUGH 6
(TYPICAL FOR 1)









QTY	DRUGS	PART	DESCRIPTION	WEEK
1	1	1	TE-4711 1000	JOHNSON
1	2	1	TE-4711 1000	JOHNSON
1	3	1	TE-4711 1000	JOHNSON
1	4	1	TE-4711 1000	JOHNSON
1	5	1	TE-4711 1000	JOHNSON
1	6	1	TE-4711 1000	JOHNSON
1	7	1	TE-4711 1000	JOHNSON
1	8	1	TE-4711 1000	JOHNSON
1	9	1	TE-4711 1000	JOHNSON
1	10	1	TE-4711 1000	JOHNSON
1	11	1	TE-4711 1000	JOHNSON
1	12	1	TE-4711 1000	JOHNSON
1	13	1	TE-4711 1000	JOHNSON
1	14	1	TE-4711 1000	JOHNSON
1	15	1	TE-4711 1000	JOHNSON
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1	23	1	TE-4711 1000	JOHNSON
1	24	1	TE-4711 1000	JOHNSON
1	25	1	TE-4711 1000	JOHNSON
1	26	1	TE-4711 1000	JOHNSON
1	27	1	TE-4711 1000	JOHNSON
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1	64	1	TE-4711 1000	JOHNSON
1	65	1	TE-4711 1000	JOHNSON
1	66	1	TE-4711 1000	JOHNSON
1	67	1	TE-4711 1000	JOHNSON
1	68	1	TE-4711 1000	JOHNSON
1	69	1	TE-4711 1000	JOHNSON
1	70	1	TE-4711 1000	JOHNSON
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1	77	1	TE-4711 1000	JOHNSON
1	78	1	TE-4711 1000	JOHNSON
1	79	1	TE-4711 1000	JOHNSON
1	80	1	TE-4711 1000	JOHNSON
1	81	1	TE-4711 1000	JOHNSON
1	82	1	TE-4711 1000	JOHNSON
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1	87	1	TE-4711 1000	JOHNSON
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1	89	1	TE-4711 1000	JOHNSON
1	90	1	TE-4711 1000	JOHNSON
1	91	1	TE-4711 1000	JOHNSON
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1	95	1	TE-4711 1000	JOHNSON
1	96	1	TE-4711 1000	JOHNSON
1	97	1	TE-4711 1000	JOHNSON
1	98	1	TE-4711 1000	JOHNSON
1	99	1	TE-4711 1000	JOHNSON
1	100	1	TE-4711 1000	JOHNSON

CONTROLLER MOUNTED IN ENCLOSURE IN CLOSET UNDER RTU-2

FEC 2621 CONTROLLER POINT LIST

UNIVERSAL INPUTS (A/B/D)

- IN1 (A1) = Z-2-1 SPACE TEMPERATURE
- IN2 (A1) = Z-2-1 SETPOINT ADJUSTMENT
- IN3 (A1) = Z-2-2 SPACE TEMPERATURE
- IN4 (A1) = Z-2-2 SETPOINT ADJUSTMENT
- IN5 (A1) = Z-2-3 SPACE TEMPERATURE
- IN6 (A1) = Z-2-3 SETPOINT ADJUSTMENT

BINARY INPUTS (B1)

- IN7 (B1) = SPARE
- IN8 (B1) = SPARE

BINARY OUTPUTS (B0)

- OUT1 (B0) = SPARE
- OUT2 (B0) = SPARE
- OUT3 (B0) = SPARE

BINARY OUTPUTS CONFIGURABLE (BO/AO)

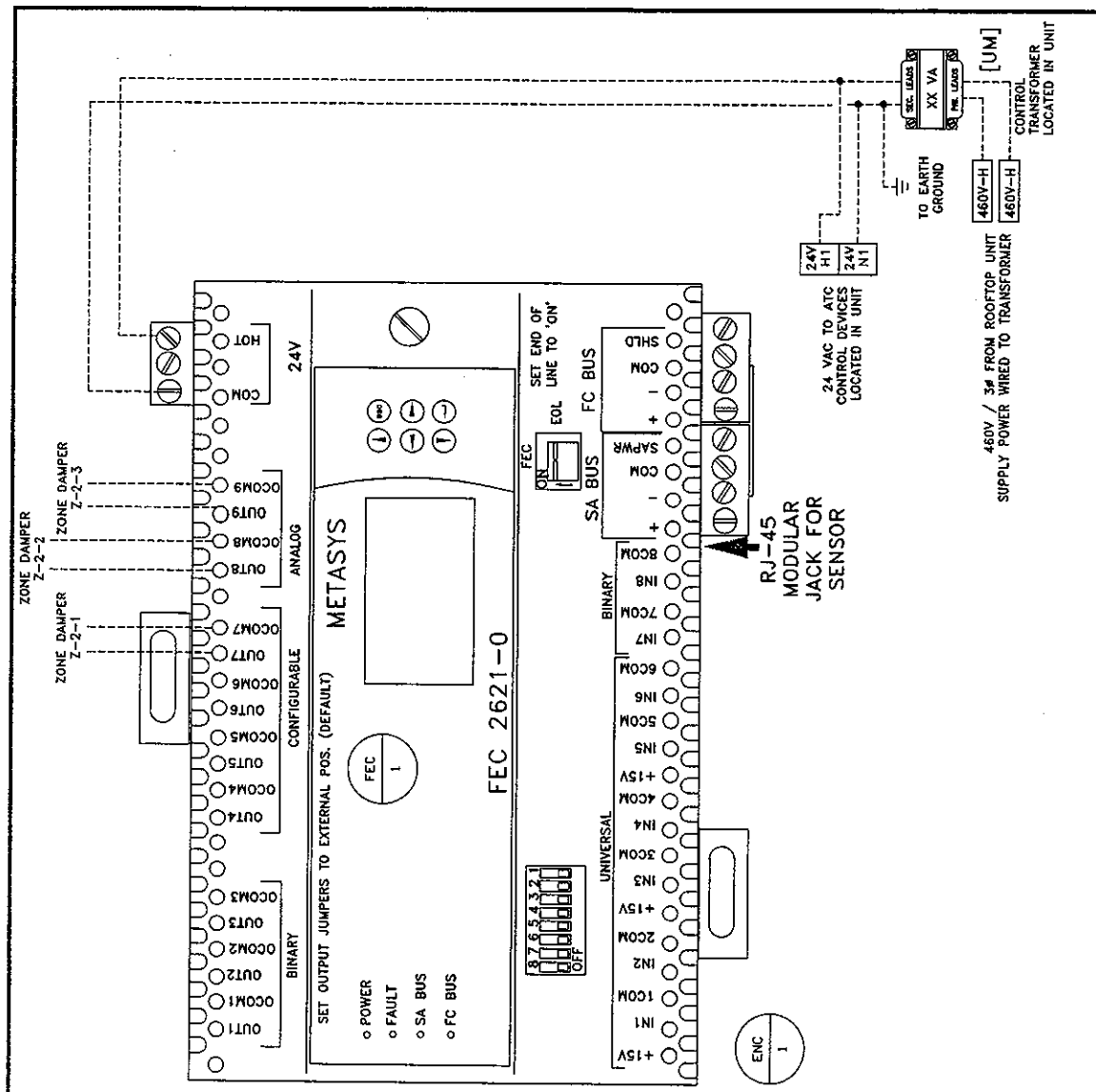
- OUT4 (AO/BO) = SPARE
- OUT5 (AO/BO) = SPARE
- OUT6 (AO/BO) = SPARE
- OUT7 (AO) = Z-2-1 DAMPER ACTUATOR CONTROL

ANALOG OUTPUTS (AO)

- OUT8 (AO) = Z-2-2 DAMPER ACTUATOR CONTROL
- OUT9 (AO) = Z-2-3 DAMPER ACTUATOR CONTROL

SA BUS

- IOM BOARD IOM-4711 #1
- IOM BOARD IOM-4711 #2
- IOM BOARD IOM-4711 #3



BILL OF MATERIAL			
QTY	DESCRIPTION	QTY	DESCRIPTION
1	ENCLOSURE	1	ENCLOSURE
1	ENCLOSURE	1	ENCLOSURE
1	ENCLOSURE	1	ENCLOSURE

EXPANSION MODULE MOUNTED IN ENCLOSURE IN CLOSET UNDER
RTU-2

IOM-4711 CONTROLLER POINT LIST

UNIVERSAL INPUTS (A/B/I)

- IN1 (A1) = Z-2-4 SPACE TEMPERATURE
- IN2 (A1) = Z-2-4 SETPOINT ADJUSTMENT
- IN3 (A1) = Z-2-5 SPACE TEMPERATURE
- IN4 (A1) = Z-2-5 SETPOINT ADJUSTMENT
- IN5 (A1) = Z-2-6 SPACE TEMPERATURE
- IN6 (A1) = Z-2-6 SETPOINT ADJUSTMENT

BINARY INPUTS (B/I)

- IN7 (B1) = SPARE
- IN8 (B1) = SPARE

BINARY OUTPUTS (B/O)

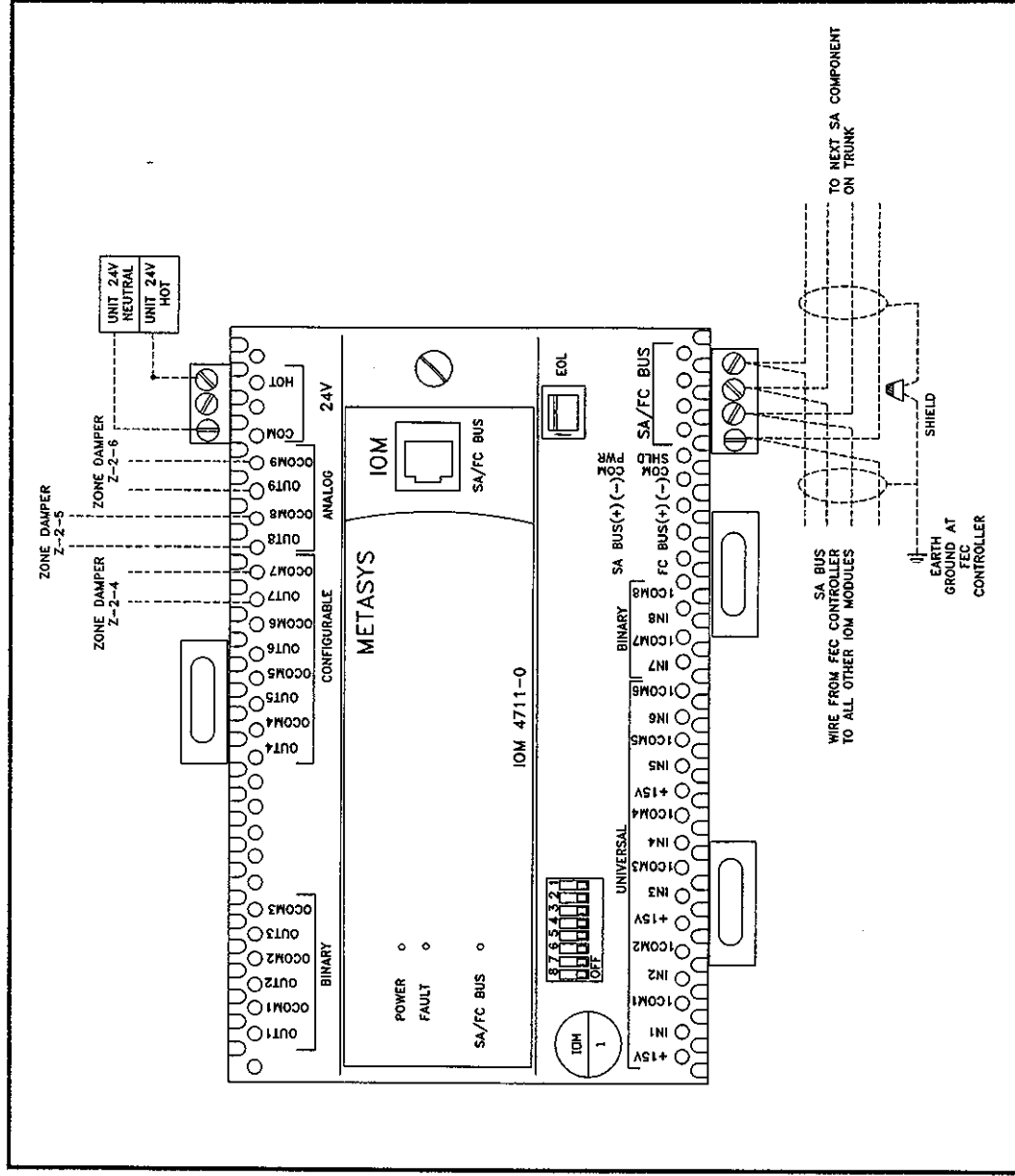
- OUT1 (B/O) = SPARE
- OUT2 (B/O) = SPARE
- OUT3 (B/O) = SPARE

BINARY OUTPUTS CONFIGURABLE (B/O/AO)

- OUT4 (AO/B/O) = SPARE
- OUT5 (AO/B/O) = SPARE
- OUT6 (AO/B/O) = SPARE
- OUT7 (AO) = Z-2-4 DAMPER ACTUATOR CONTROL

ANALOG OUTPUTS (AO)

- OUT8 (AO) = Z-2-5 DAMPER ACTUATOR CONTROL
- OUT9 (AO) = Z-2-6 DAMPER ACTUATOR CONTROL



QTY	DEVICE #	PART #	DESCRIPTION	MFGR
1	IOM 1	MS-IOM-4711-0	17 POINT EXPANSION CONTROLLER	JOHNSON

BILL OF MATERIAL				
QTY	DEVICE #	PART #	DESCRIPTION	MFGR
1	IOM 1	MS-IOM-4711-0	17 POINT EXPANSION CONTROLLER	JOHNSON

TITLE

ROOFTOP UNIT RTU-2

ZONE CONTROL CONTROLLER

IOM EXP MODULE #1 WIRING DIAGRAM AND POINTS LIST

DATE 06-25-2011

DATE 06-25-2011

PAGE NO.

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REVISIONS

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DESCRIPTION

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JOB LOCATION

EXPANSION MODULE MOUNTED IN ENCLOSURE IN CLOSET UNDER
RTU-2

IOM 4711 CONTROLLER POINT LIST

UNIVERSAL INPUTS (AI/BI)

- IN1 (AI) = Z-2-7 SPACE TEMPERATURE
- IN2 (AI) = Z-2-7 SETPOINT ADJUSTMENT
- IN3 (AI) = Z-2-8 SPACE TEMPERATURE
- IN4 (AI) = Z-2-8 SETPOINT ADJUSTMENT
- IN5 (AI) = Z-2-9 SPACE TEMPERATURE
- IN6 (AI) = Z-2-9 SETPOINT ADJUSTMENT

BINARY INPUTS (BI)

- IN7 (BI) = SPARE
- IN8 (BI) = SPARE

BINARY OUTPUTS (BO)

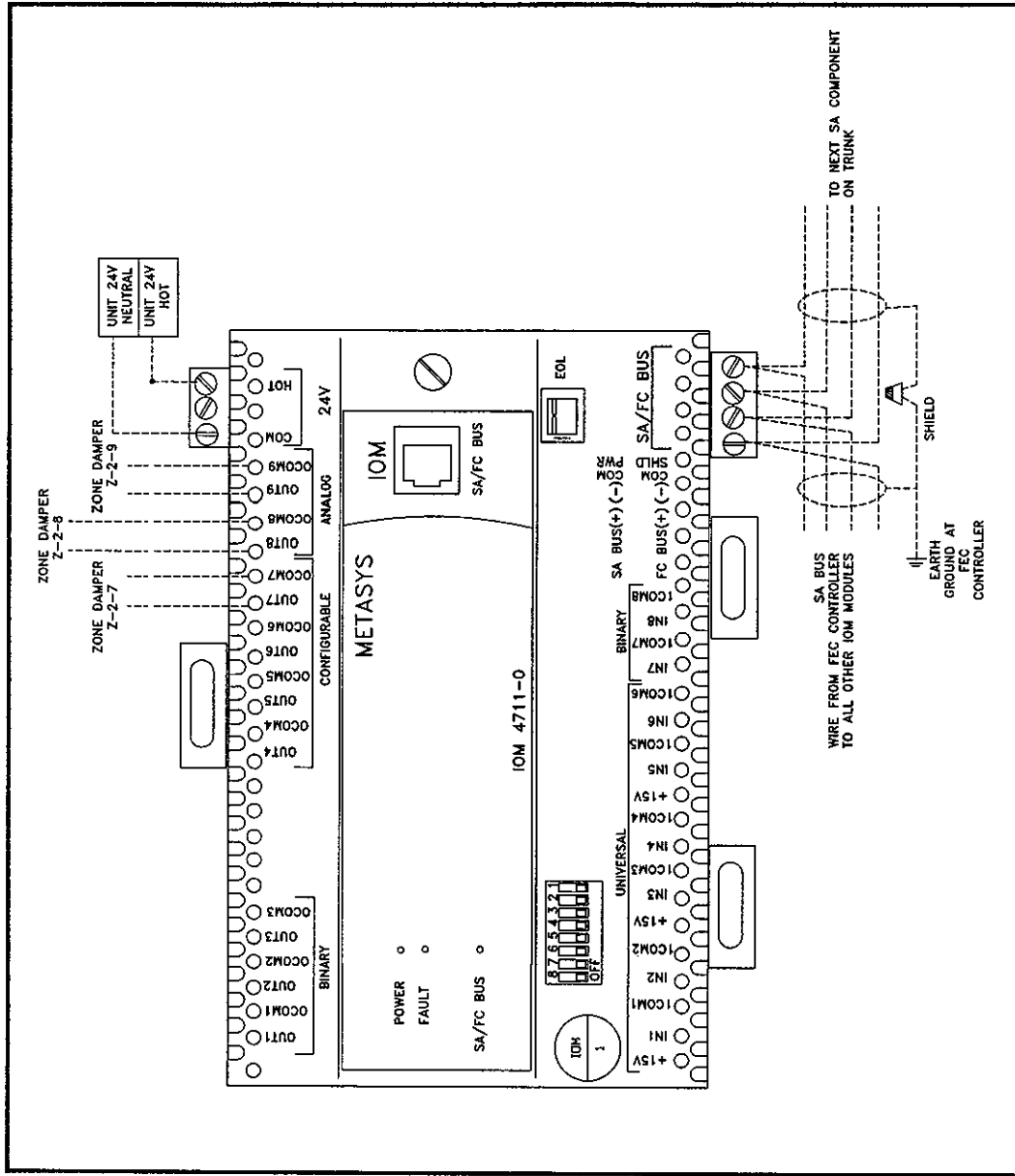
- OUT1 (BO) = SPARE
- OUT2 (BO) = SPARE
- OUT3 (BO) = SPARE

BINARY OUTPUTS CONFIGURABLE (BO/AO)

- OUT4 (AO/BO) = SPARE
- OUT5 (AO/BO) = SPARE
- OUT6 (AO/BO) = SPARE
- OUT7 (AO) = Z-2-7 DAMPER ACTUATOR CONTROL

ANALOG OUTPUTS (AO)

- OUT8 (AO) = Z-2-8 DAMPER ACTUATOR CONTROL
- OUT9 (AO) = Z-2-9 DAMPER ACTUATOR CONTROL



QTY	DEVICE #	PART #	DESCRIPTION	MFGR
1	IOM 1	MS-CON-4711-0	17 POINT EXPANSION CONTROLLER	JOHNSON

BILL OF MATERIAL

EXPANSION MODULE MOUNTED IN ENCLOSURE IN CLOSET UNDER
RTU-2

IOM-4711 CONTROLLER POINT LIST

UNIVERSAL INPUTS (AUBI)

- IN1 (AI) = Z-2-10 SPACE TEMPERATURE
- IN2 (AI) = Z-2-10 SETPOINT ADJUSTMENT
- IN3 (AI) = Z-2-11 SPACE TEMPERATURE
- IN4 (AI) = Z-2-11 SETPOINT ADJUSTMENT
- IN5 (AI) = Z-2-12 SPACE TEMPERATURE
- IN6 (AI) = Z-2-12 SETPOINT ADJUSTMENT

BINARY INPUTS (BI)

- IN7 (BI) = SPARE
- IN8 (BI) = SPARE

BINARY OUTPUTS (BO)

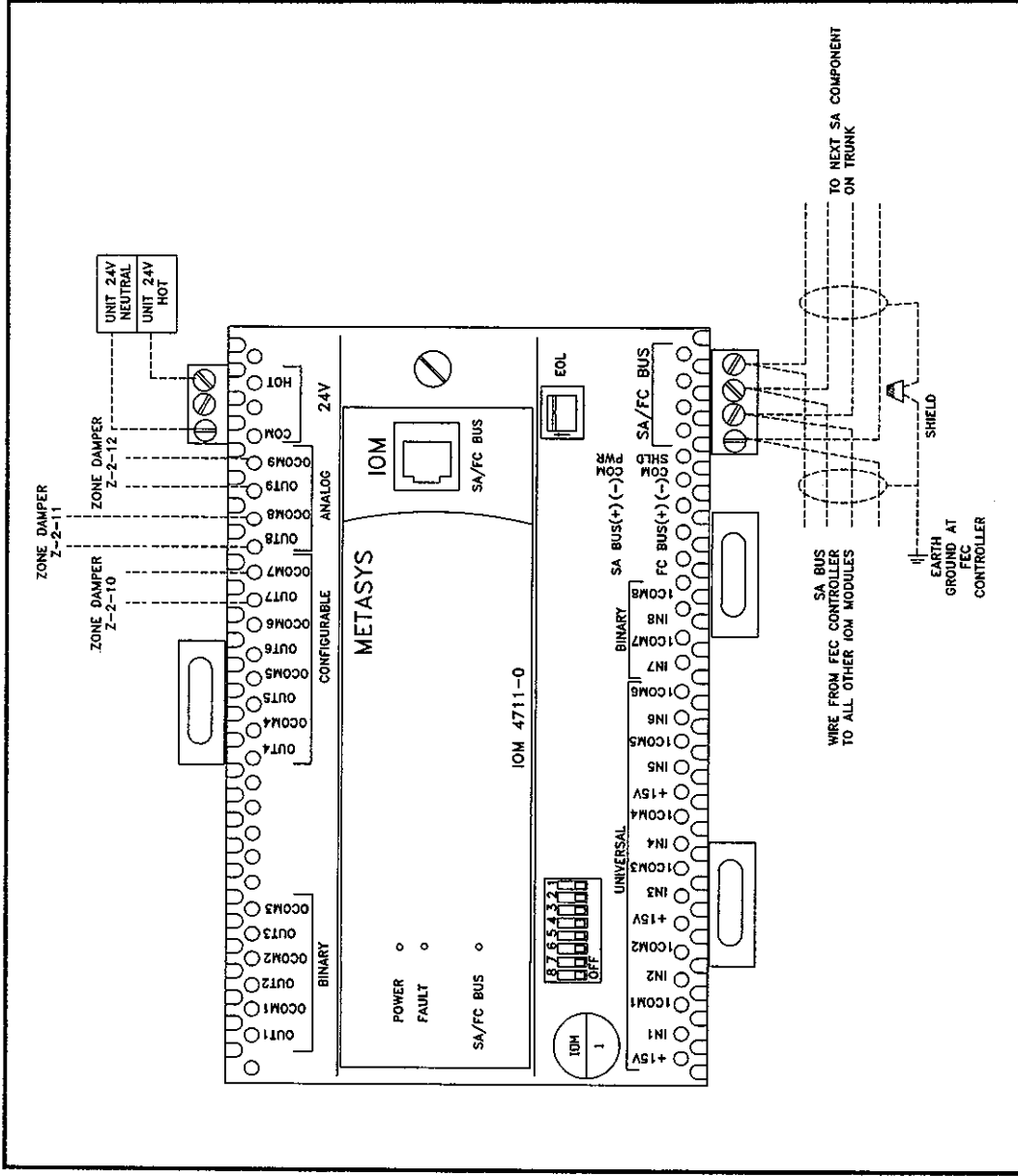
- OUT1 (BO) = SPARE
- OUT2 (BO) = SPARE
- OUT3 (BO) = SPARE

BINARY OUTPUTS CONFIGURABLE (BO/AO)

- OUT4 (AO/BO) = SPARE
- OUT5 (AO/BO) = SPARE
- OUT6 (AO/BO) = SPARE
- OUT7 (AO) = Z-2-10 DAMPER ACTUATOR CONTROL

ANALOG OUTPUTS (AO)

- OUT8 (AO) = Z-2-11 DAMPER ACTUATOR CONTROL
- OUT9 (AO) = Z-2-12 DAMPER ACTUATOR CONTROL



BILL OF MATERIAL		DESCRIPTION		MFR	
QTY	DEVICE #	PART #	DESCRIPTION	MFR	
1	KOM 1	MS-IOM-4711-B	17 POINT EXPANSION CONTROLLER	JOHNSON	

TITLE

DATE 06-25-2011

EXP. MODULE #3 WIRING DIAGRAM AND POINTS LIST

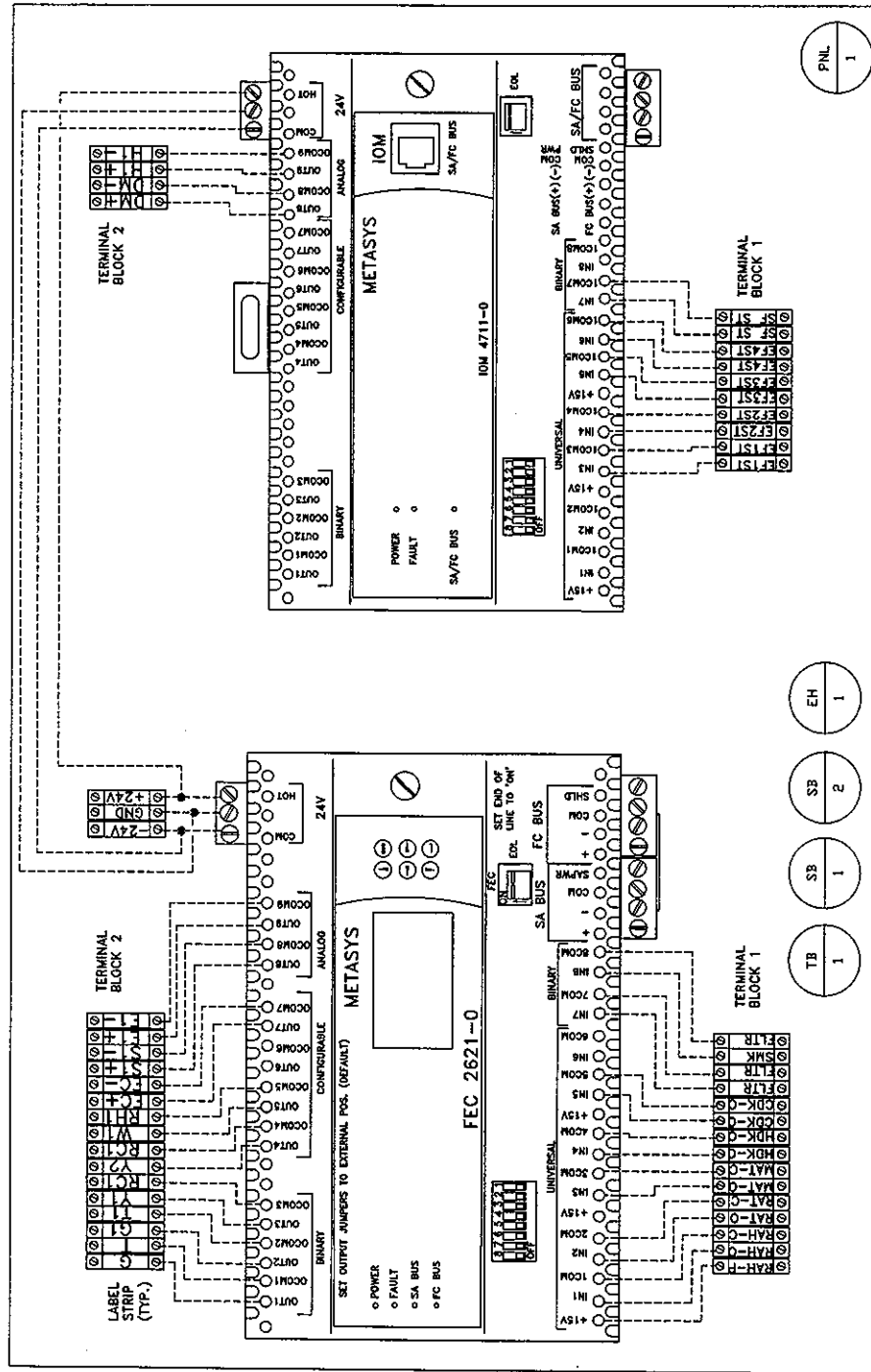
ROOFTOP UNIT RTU-2

ZONE CONTROL CONTROLLER

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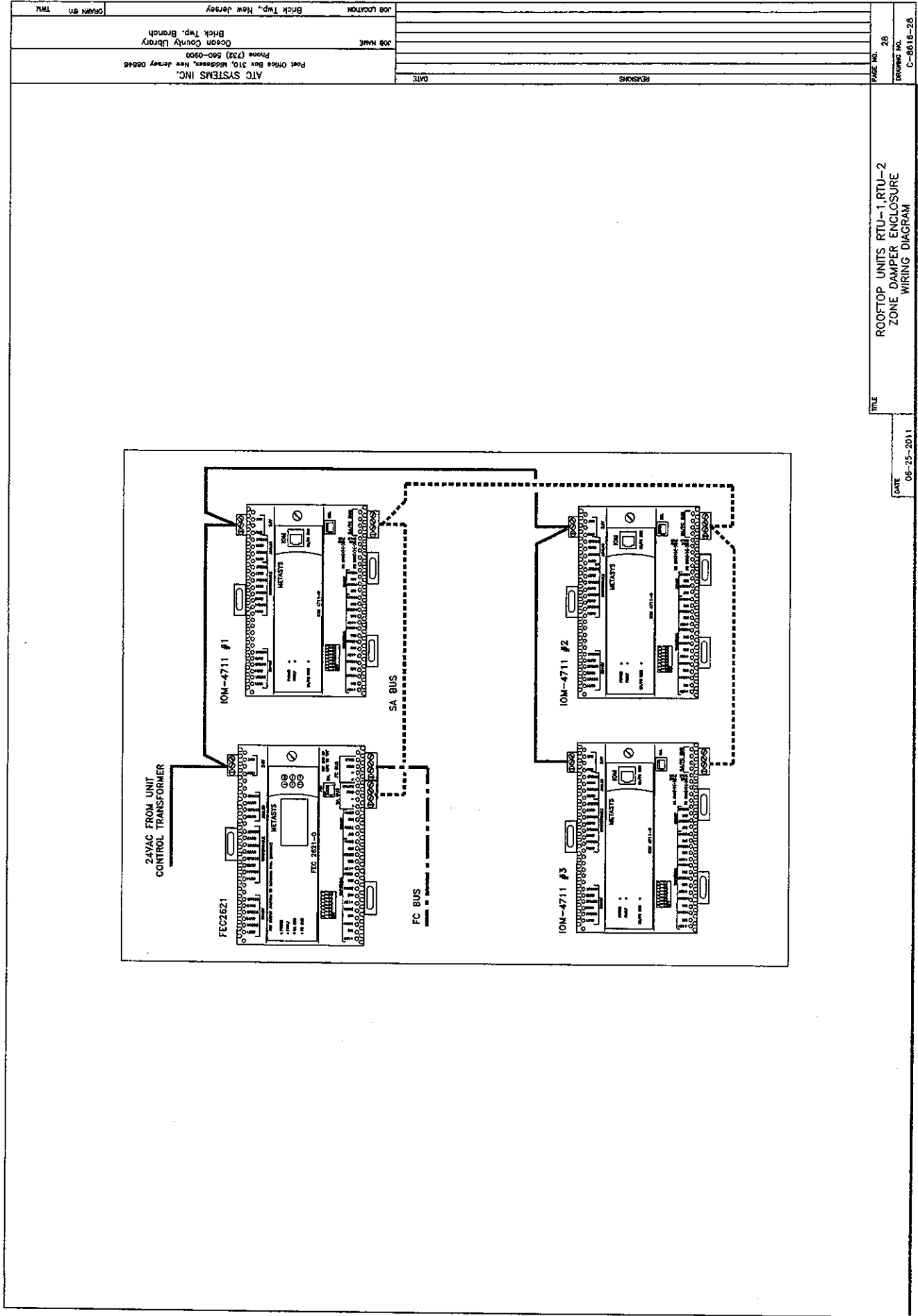
C-8616-26

ATC SYSTEMS INC. Post Office Box 310, Middletown, New Jersey 08846 Phone (732) 660-0900	JOB NAME Ocean County Library Blk Twp. Branch	JOB LOCATION Blk Twp., New Jersey	DATE	REVISIONS	DATE
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INSTALL CONTROLLERS AND TERMINAL BLOCKS ON TO PERFORATED PANEL. LABEL TERMINAL BLOCKS AS SHOWN. PACK AND SHIP TO SEASONS 4 FOR FACTORY MOUNTING.

QTY	DEVICE #	DESCRIPTION	MPGR
96	1B 1 BKA11	SINGLE TERMINAL BLOCK	KELE
8	SB 1 SB10	LABEL STRIP	KELE
2	SB 2 SB6	LABEL STRIP	KELE
10	EH 1 EH2	END HOLDERS	KELE
2	PAL 1 NP 2420	24X20 PERFORATED PANEL	KELE



JOB LOCATION		DATE	
JOB NAME		REVISIONS	
Ocean County Library			
Brick Twp. Branch			
Brick Twp., New Jersey			
ATC SYSTEMS INC.			
Post Office Box 310, Middletown, New Jersey 08046			
Phone (732) 560-0900			
DRAWN BY: TML			