# 8'-0" x 16'-0" (ACTUAL SIZE) 816 GUARDHOUSE Twin Modular Services Inc.

PROJECT: RYDER ROMEOVILLE, IL.

1001 Lower Landing Road Suit 607, Blackwood, NJ

	DESIGN BASIS
State/Jurisdiction	Pennsylvania
Building Code	International Building Code, 2009 Edition
Plumbing Code	International Plumbing Code, 2009 Edition
Electrical Code	National Electric Code NFPA 70, 2008 Edition
Mechanical Code	International Mechanical Code, 2009 Edition
Energy Code	International Energy Conservation Code, 2009 Edition
Fire Code	International Fire Code, 2009 Edition

	STRUCTURAL DES	SIGN CRITERIA		
GRAVITY LOADS		SEISMIC (IBC)		
Floor Live	50 psf	Seismic Design Category	В	
Floor Dead	10 psf	Site Class	D	
Roof Live	20 psf	Importance Category	1.0	
Roof Dead	10 psf	Occupancy Category	II	
Exterior Wall Dead	5 psf	Mapped Accelerations		
SNOW	40 (	S <sub>s</sub>	0.17	
Ground Snow Load	40 psf	S <sub>1</sub>	0.05	
Flat-Roof Snow, P <sub>f</sub>	30.8 psf	Spectral Response		
WIND		S <sub>DS</sub>	0.18	
Wind Speed (3 Second Gust)	90 mph	S <sub>D1</sub>	0.08	
Exposure Category	С	Seismic Force Resisting System	A13	
Internal Pressure, GC	+/-0.18	Design Base Shear	0.03W	
Base Wind Pressure, P	15.0 psf	Response Modification Factor	3.0	
Mean Roof Height	15 ft	Analysis Procedure	ASCE 7-05	
WIND		FLOOD	Sec. 12.8	
Setback	to a common or assumed property line.	Building shall not be located, in in a flood hazard area as establi authority having jurisdiction unle foundation designed in accordar	shed by the ess set on a nce with	
Building shall not be placed on the upper		ASCE/SEI 25. The flood resistant foundation		
half of a hill or escarpment exceeding 15		shall be designed by a registere		
feet in height.		professional and constructed to loads without transferring loads structure.		

COMPONENTS AND CLADDING WIND LOADS			
End Zone Interior Zone Component (psf) (psf)			
Windows & Siding Doors Roof Cladding Roof Overhangs	+17.7/-23.7 +15.0/-18.4 +10.0/-44.6 -41.9	+17.7/-19.2 +15.0/-16.5 +10.0/-17.7 -25.5	

LIFE SAFETY SUMMARY			
	Sprink		VB 1.00 1.00 900 ft <sup>2</sup> 2 stories 40 ft
LEVEL	OCCUPANCY	AREA	OCCUPANT LOAD
1	В	96 ft <sup>2</sup>	1

#### DRAWING INDEX

- Cover Sheet
- 1.1 General Notes1.2 Specifications
- 2. Elevations
- 3. Floor Plan
- 3.1 Framing Details
- 3.2 Framing Details
  4. Electrical Plan
- Electrical Plan
   Cross Section
- Cross Section
   Blocking Plan

#### THIS PLAN MAY BE REVERSED OR MIRRORED.

#### ACCESSIBILITY EXCEPTIONS

1103.2.7 Raised areas. Raised areas used primarily for purposes of security, life safety, or fire safety including but not limited to, observation galleries, prison guard towers, fire towers or life guard stands are not required to be accessible or to be served by an accessible rout.

1103.2.10 Single occupant structures. Single occupant structures accessed only by passageways below grade or elevated above ground including but not limited to, toll booths that are accessed by underground tunnels are not required to be accessible.

Note: Single occupant guard structures will be placed on and elevated entrance island to the park that does not have an accessible rout.

#### SPECIAL LIMITATIONS

Adequate handicapped restroom facilities to handle this additional occupant load created by the addition of this building to a site shall be provided in an adjacent building on the same property. The local official having jurisdiction shall verify the existing facilities.

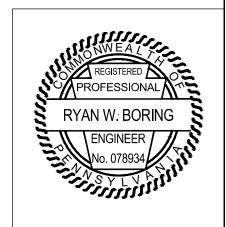
#### THERMAL ZONE

This buildings design complies with or exceeds the minimum requirements for thermal zone 5a.

#### ATTENTION LOCAL BUILDING OFFICIAL

All work to be completed on-site is to be in compliance with all state and local codes and is subject to review, approval, and inspection by the local authority having jurisdiction. This building is designed for installation on a permanent foundation and is not intended to be moved once installed. All on-site work shall be performed by a licensed contractor with experience in the setup of modular buildings. The following list is not all inclusive, nor does it limit the items of work or materials that may be required for complete installation.

- Complete foundation support and anchorage system
- Ramps, stairs and general access to building.
- 3. Electrical service connection (including feeders) to the building.



#### NTA, Inc., 305 N Oakland Ave Nappanee, Indiana 46550

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0104 2008-05-28

REVISIONS:	SCALE:	APPROVED BY:
	NTS	
	DATE:	DRAWN BY:
	06/07/2017	EAB

These drawings are applicable only to the elements and loading criteria specifically provided herein.

These drawings shall not be construed in any way to specify, certify or design any aspects of the

building not contained herein. Elements not contained herein are to be constructed in accordance with the prescriptive requirements of the adopted building code or designed by other registered design professionals, as applicable. Specified design criteria are based solely on information provided by the client and must be verified and approved by the local authority having jurisdiction. NTA, Inc. is not responsible for fabrication or erection. If it is suspected that these drawings have been modified, substituted or altered in any way, contact NTA, Inc. directly to obtain a file copy.

## Twin Modular Services Inc. Blackwood , NJ

TITLE:	JOB NO:
COVER SHEET	TMS060617-18
MODEL:	DRAWING NO:
816 GUARDHOUSE	1

#### WOOD FRAMING

- Structural sawn lumber shall be identified by a grade mark in accordance with DOC PS 20.
- Approved end-jointed lumber may be use interchangeably with solid-sawn member of the same species and grade except in fire rated assemblies.
- Structural sheathing shall be rated and labeled for compliance with DOC PS 1 or DOC PS 2.
- LVL members shall have the following minimum properties, E=2.0, F<sub>x</sub>=2800 psi. unless noted otherwise.
- All wood shall have a moisture content of 19% or less at the time of construction.
- Wood framing members, including wood sheathing, that rest on exterior foundation walls and are less than 8" from exposed earth each shall be naturally durable or preservative treated.
- Wood members shall be cut and joined so no gap larger than 1/8" exists between members.
- Wood in contact with concrete or masonry shall be naturally durable or preservative treated in accordance with AWPA use category UC4C and properly identified as preservative treated.
- Nails and staples shall conform to ASTM F1667. Nails with shank diameters of 0.099" but not larger than 0.142" shall have a minimum average bending yield strength, F<sub>tv</sub> = 100 ksi.
- Fasteners shall be installed to avoid splitting of the wood members.
   If splitting occurs, the connection shall be made by alternate means or otherwise reinforced under the direction of the design engineer.
- Fasteners shall be driven so their head or crown is flush with the surface of the wood member or sheathing. Overdriven fasteners shall be replaced.
- Bolts shall conform to ASTM A307 meeting the requirements of ANSI/ASME B18.2.1 for full-body diameter bolts. Screws and lag screws shall conform to ANSI B18.2.1 and ANSI B18.6.1, respectively.
- Bolt holes shall be at least a minimum of 1/32" and no more than a maximum of 1/16" larger than the bolt diameter.
- 14. Bolt nuts shall be finger-tight plus 1/3 to 1/2 turn with a hand wrench.

  15. Connection hardware shall be the brand and model specified.
- Connection hardware shall be the brand and model specified.
   Alternate connectors shall be submitted to the design engineer for approval.
- Unless otherwise noted, connectors shall be installed with the maximum number and size of fasteners as required in the manufacturer's installation instructions.
- Prefabricated wood I-joist and structural composite lumber shall not be notched or drilled except where permitted by the manufacturer's recommendations.
- Plywood beams shall be detailed and fabricated in accordance with the latest edition of APA Plywood Design Specification Supplement 5
   Design & Fabrication of All-Plywood Beams.
- Douglas Fir, Hem Fir, or Southern Yellow Pine may be substituted for Spruce-Pine-Fir using an equal size and grade.

#### CORROSION PROTECTION

- Metal framing, connectors, fasteners, and flashing in contact with preservative treated or fire retardant treated wood members shall be hot-dipped zinc coated galvanized steel, stainless steel, silicon bronze, copper, or otherwise protected from the corrosive action of the wood member.
- A barrier between the treated members can be used when approved by the design engineer.
- Selection of the appropriate connector and fastener coating shall be based on the intended end use of the connector or fastener and the chemical preservative used in the the treatment of the member for which it is in contact.
- Where connection hardware is used, such as joint hangers, fasteners
  used shall be made of the same material as the connection
  hardware.
- Corrosion protection of metal connectors, fasteners, and flashing based on galvanized or stainless steel materials shall be in accordance with the table below.

Product Coatings	Hot Dipped Galvanized (ASTM A153)		Stainless
Preservative	G90	G185	Steel
Untreated Wood SBX/DOT CCA-C	Yes	Yes	Yes
ACQ-C & ACQ-B CBA-A & CA-B NON-DOT No Ammonia and Not Rated For Ground Contact	No	Yes	Yes
Unknown Preservative, Contains Ammonia, Rated For Ground Contact or ACZA	No	No	Yes

SBX = DOT Sodium Borate, CCA-C = Chromated Copper Arsenate, ACQ-C & ACQ-D = Alkaline Copper Quat, CBA-A & CA-B = Copper Azote, Non-DOT = Other Borate, ACZA = Ammoniacal Copper Zinc Arsenate

#### COASTAL CORROSION PROTECTION

- The corrosion protection requirements in this sections shall apply to all structures located within 3000' landward of the mean high-tide waterline for all metal components or connectors not contained within the pressure envelope of the structure.
- Fasteners or bolts less than 5/8" in diameter shall be Type 316L stainless steel. Fasteners or bolts 5/8" or larger shall be hot dip galvanized per ASTM A653 or ASTM A153 with a zinc coating thickness of 1.85 oz of zinc per square foot of surface area (G185).
- 3. Connection hardware, such as pre-formed connectors, steel plates, or steel straps, exposed to weather and having a base metal thickness equal to or less than 1/8" shall be Type 303, 304, 305 or 316 stainless steel. Steel exposed to weather having a base metal thickness greater than 1/8" shall be hot dip galvanized per ASTM A653 or ASTM A153 with a zinc coating thickness of 1.85 oz of zinc per square foot of surface area (G185) or painted using one of the following formulations:
- A. Epoxy-polyamide
- B. Coal-tar epoxy-polyamide
- C. Zinc chormate-vinyl butyral primer with asphatic mastic
- Contact between dissimilar materials (stainless steel and carbon steel) shall be avoided.



#### NTA, Inc., 305 N Oakland Ave Nappanee, Indiana 46550

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06.04.2007.06.1

 Twin Modular Services Inc. Blackwood, NJ

		06.04 2007-06-19
TITLE:		JOB NO:
	GENERAL NOTES	TMS060617-18
MODEL:		DRAWING NO:
	816 GUARDHOUSE	1.1

Type: Perimeter Main Beam: 6" C Channel 8.2 lbs per foot Cross Members: 6" C Channel at 24" o.c. Paint: Marine Based 2 Part Epoxy-Black

#### **FLOOR**

Moisture Barrier: Tyvek or Equal Insulation: 2 Layers of 2" Ridged Insulation R-19 Decking: 3/4" Plywood, 24" o.c. Secured Directly to Steel Frame Trim: 4" Vinvl Cove Base - Black Covering: 1/8" Aluminum Tread Plate Over 3/4" Plywood

#### **EXTERIOR WALLS**

Insulation: R-13 Kraft-Backed Batts

Studs: 2x4 Stud Grade SPF at 16" o.c. Bottom Plate: Single 2x4 #3 SPF Top Plate: Single 2x4 #3 SPF Steel Tube: 3"x3"x1/4" Steel Tube Beams and Corner Posts with 2"x2" Rigid Foam Board Insulation Exterior Sheathing: 7/16" OSB Sheathing 24/16 Wall Height: 8'-3" Finished Ceiling Height: 7'-9" AFF

and Stapled, Class C Finish

Type: Rafter, 2x8 #3 SPF at 16" o.c. Bow Type Ceiling: 2'x4' T-Grid Drop Ceiling at 7'-9" AFF Insulation: R-30 Kraft Unfaced Fiberglass Batts Overhang: 3" On Each 16' Side and 6" On Each 8' Side Exterior Sheathing: 1/2" Exterior Grade Plywood 24/16

Interior Wall Covering: 1/4" Vinvl Covered Paneling Glued

#### **ENERGY PACKAGE**

Exterior Light: (1) 120V LED 39 Watt Model FSL2030L with Photocell (Weather Proof) or Equal Interior Lights: (2) 2'x4' 120V LED with Prismatic Lens - Lithonia Type U889966

Main Distribution Panel: Exterior Surface Mount, 100 Amp. Single Phase, 3 wire, 60 HZ Ground Raceway: Minimum #14/2 with Ground 90 Deg. C Type MC Copper Interior Lights: See Above Energy Package Exterior Lights: See Above Energy Package Switches: 120V 15 Amp Duplex Recepts per Print Recepts: 20 Amp - 120V Duplex Recepts per Print Interior Recept: 20 Amp - 120V GFCI - per Print Data Box: 4" Data Box Surface Mounted and Piped to Ceiling - Wiring by Others

Heating: (2) 230V, 20 Amp, 3,000 Watt Wall Mount, Dedicated Circuit Air Conditioning: 208/230V (Dedicated Circuit) 12,000 BTU Wall Mount Approx 75" AFF Optional: Wall Mount 11,600 BTU Air Conditioner with Electric Heat Strip

#### **EXTERIOR WINDOWS AND DOORS**

Doors: 36"x80" Steel Door with 22" x36" Window (Safety Glazed) Ball Hardware and Heavy Duty Closer Windows: 46"x39" Horizontal Slider, Vinyl Clad Thermal Pane Tempered Low-E Type, 2 per Print 46"x39" Fixed Glazing, Vinyl Clad Thermal Pane Low-E Type, 4 per Print 36"x39" Fixed Glazing, Vinyl Clad Thermal Pane Low-E Type, 3 per Print Optional: Film Tint Windows

Note: All Windows including Door Window to be Tempered

#### EXTERIOR FINISHES

Siding: 0.19 Aluminum Light Gray Trim: 0.19 Aluminum Dark Gray Wall Sheathing: 7/16" OSB, 24/16 APA Span Index Rating Minimum

Roof Sheathing: 1/2" CDX Plywood, 32/16 Span Rating Minimum Roof: GAF TPO - White - Class C, 1/2" ISO Guard HD or Resista Window Trim: 2-1/2" Non Corrosive Solid Vinyl Painted White

#### FURNITURE

24" x 8'-0" Counter with File Cabinet Under



#### NTA, Inc., 305 N Oakland Ave Nappanee, Indiana 46550

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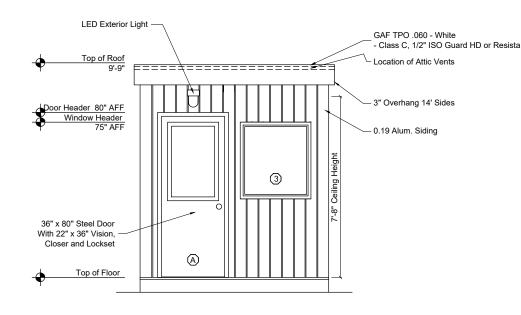
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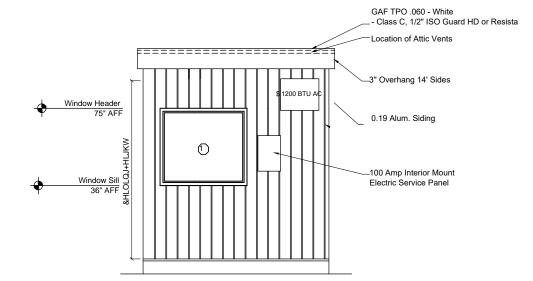
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	NTS	
	DATE:	DRAWN BY:
	06/07/2017	EAB

## Twin Modular Services Inc. Blackwood . NJ

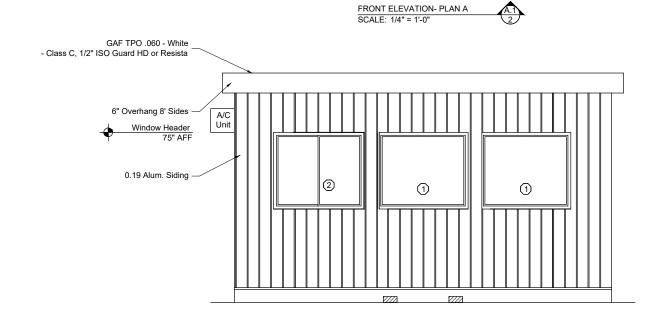
TITLE:	JOB NO:	
SPECIFICATIONS	TMS060617-18	
MODEL:	DRAWING NO:	
816 GUARDHOUSE	1.2	

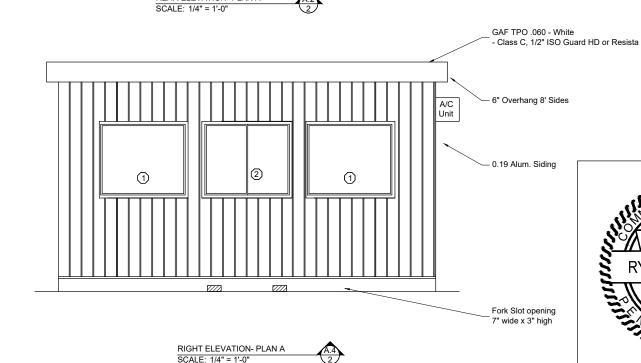
### PLAN A ELEVATIONS





REAR ELEVATION- PLAN A





Mark	Description
A	36" x 80" Steel Door with 22" x 36" Window,
3	Closer and Ball Knob
	WINDOW SCHEDULE
Mark	Description
<u>(1)</u>	46" x 39" Vinyl Thermal Insulated Fixed,
0	Tempered Window, Low-E
2	46" x 39" Vinyl Thermal Insulated Horizontal
(2)	Sliding, Tempered And Tinted, Low-E
<u></u>	36" x 39" Vinyl Thermal Insulated Fixed,
(9)	Tempered, Low-E

DOOR SCHEDULE

ATTIC VENTILATION

Vents shall be installed to provide a total net free ventilating area not less than 1/150 of the area of the space being ventilated.

Vents shall be positioned to provide cross ventilation.

LEFT ELEVATION- PLAN A

SCALE: 1/4" = 1'-0"

96 Area /150= 0.64 sq. ft. Ventilation Required

SITE INSTALLED ITEMS
Steps, rails, and decks are to be designed by others and built
on-site in accordance with local codes and subject to approval by

the local authority having jurisdiction. HEIGHT ABOVE FINISHED GRADE

Wood framing members, including wood sheathing, that are less than 8" from exposed earth shall be of naturally durable or preservative-treated wood.

# Torrest 1111

**PROFESSIONAL** 

RYAN W. BORING

#### NTA, Inc., 305 N Oakland Ave Nappanee, Indiana 46550

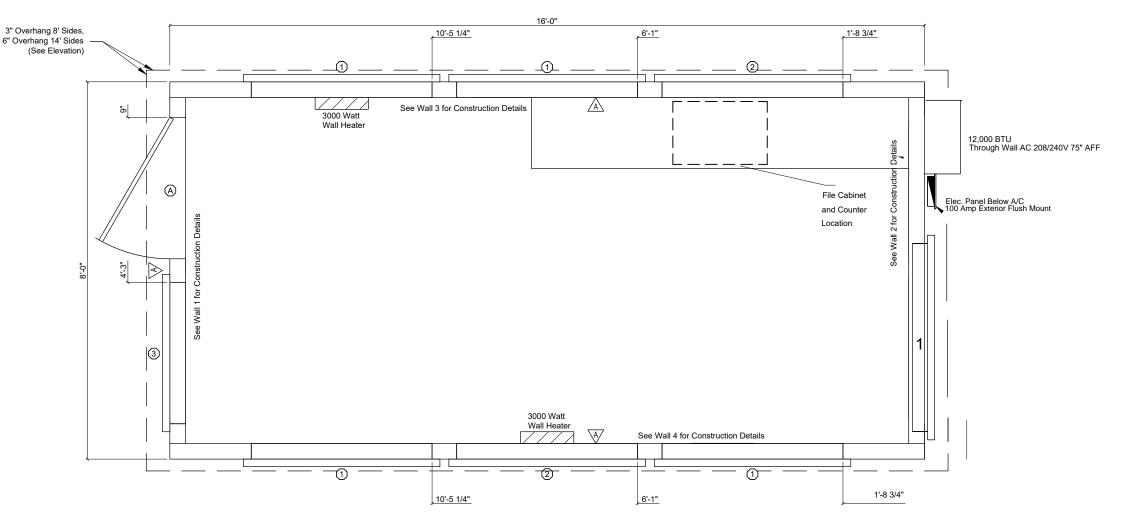
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0105.1151 2008-12-02

REVISIONS:	SCALE:		APPROVED BY:
	1/3	/2" = 1'-0"	
	DATE:		DRAWN BY:
	06	6/07/2017	EAB

## Twin Modular Services Inc. Blackwood, NJ

TITLE:	JOB NO:
ELEVATIONS PLAN A	TMS060617-18
MODEL:	DRAWING NO:
816 GUARDHOUSE	2A



NTA, Inc., 305 N Oakland Ave

### Nappanee, Indiana 46550

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## PLAN A FLOOR PLAN

#### GENERAL

All glazing within 24" arc of doors, whose bottom edge is less than

60" above the floor, and all glazing in door shall be safety glazed,

tempered or acrylic plastic sheet.

Minimum corridor width shall not be less than 36".

Exterior windows and sliding doors shall be labeled as conforming to

AAMA/WDMA/CSA101/I.S.2/A440.

Windows in buildings located in windborne debris regions shall be protected in accordance with Section 301.2.1.2 of the residential

DATE:

DOOR SCHEDULE							
Mark	Description	Hardware Ball Knob		Header	Jack Studs	Jamb Studs	
A	36" x 80" Steel Door with 22" x 36" Window, Closer and Ball Knob			(1) 2x4 #2 SPF	1	1	
		WINDOW SC	HEDULE				
Mark	Mark Description		Vent Area	Header	Jack Studs	Jamb Studs	
1	46" x 39" Vinyl Thermal Insulated Fixed, Tempered Window, Low-E	12.46 ft <sup>2</sup>	0 ft <sup>2</sup>	(1) 2x4 #2 SPF	1	1	
2	46" x 39" Vinyl Thermal Insulated Horizontal Sliding, Tempered And Tinted, Low-E	12.46 ft <sup>2</sup>	6.23 ft <sup>2</sup>	(1) 2x4 #2 SPF	1	1	
36" x 39" Vinyl Thermal Insulated Fixed, Tempered, Low-E		9.75 ft <sup>2</sup>	0 ft <sup>2</sup>	(1) 2x4 #2 SPF	1	1	
REVISIONS:	SCALE:			APPROVED BY:			

1/2" = 1'-0"

06/07/2017

EAB

Alternate holdown of equal or greater capacity may be substituted for holdowns specified.

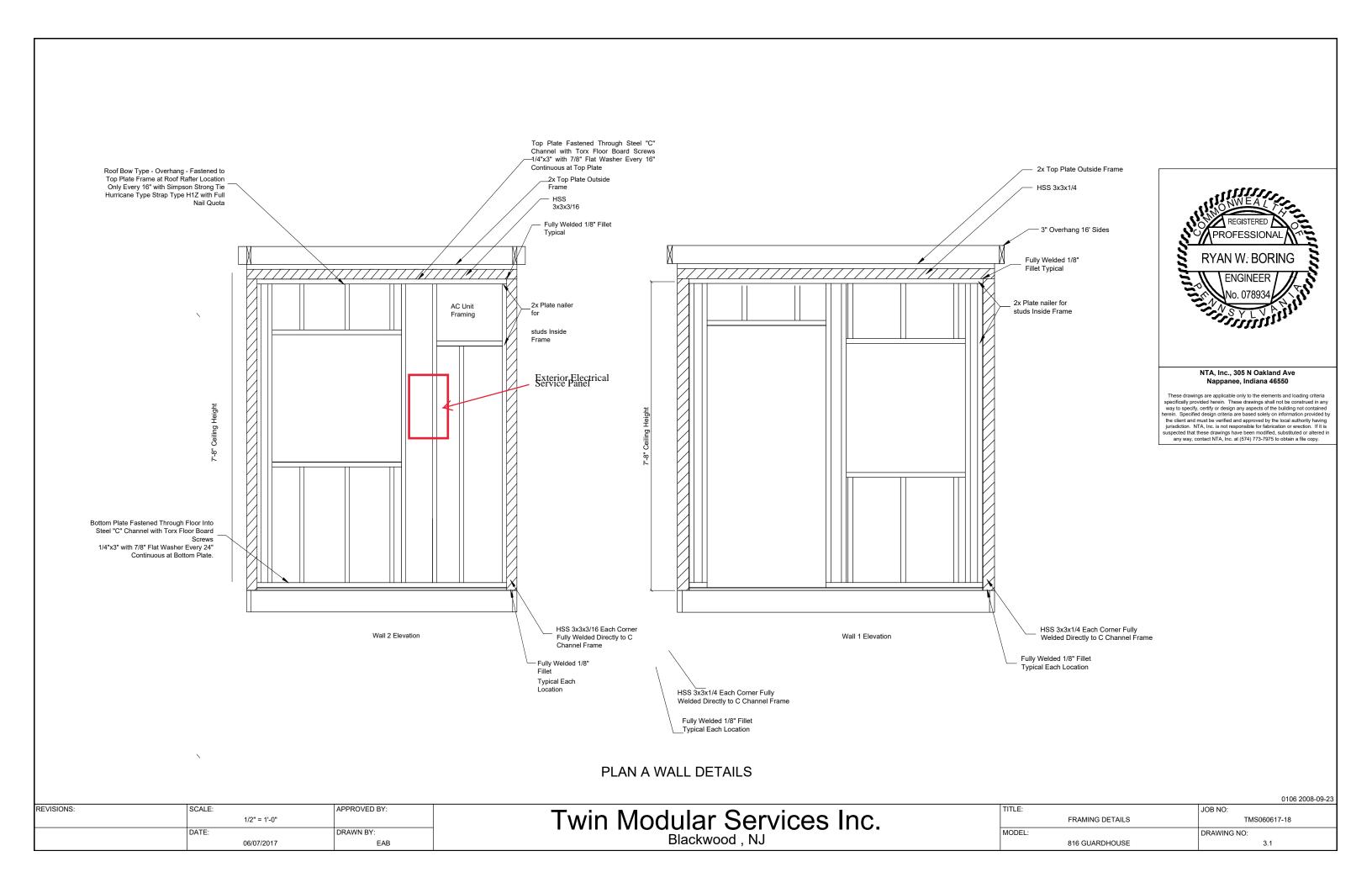
Holdowns to be installed in accordance with manufacturer's installation instructions.

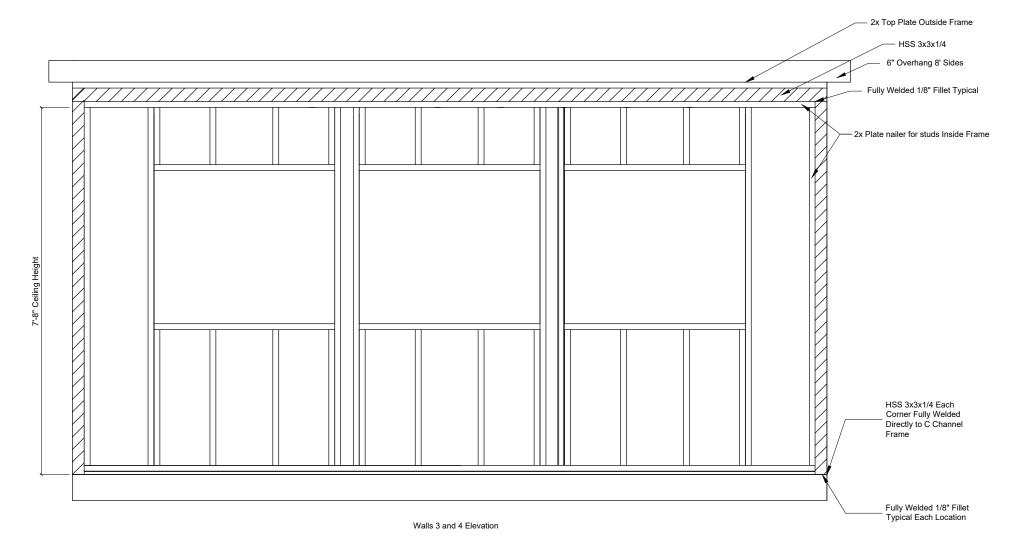
SHEARWALL SCHEDULE					
	Mark Sheathing		Fastening	Framing	
	A	7/16" Structural Sheathing, One Side, Blocked	0.113" x 2.5" nails 6/12 (edge/field)	2x4 SPF @ 16" oc	

BUYER ACCEPTANCE PLAN A SIGN AND DATE

Twin Modular Services Inc.
Blackwood, NJ

		0106 2008-09-23
TITLE:		JOB NO:
	FLOOR PLAN A	TMS060617-18
MODEL:		DRAWING NO:
	816 GUARDHOUSE	3A







NTA, Inc., 305 N Oakland Ave Nappanee, Indiana 46550

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## PLAN A WALL DETAILS

REVISIONS:

SCALE:

DATE:

1/2" = 1'-0"

06/07/2017

APPROVED BY:

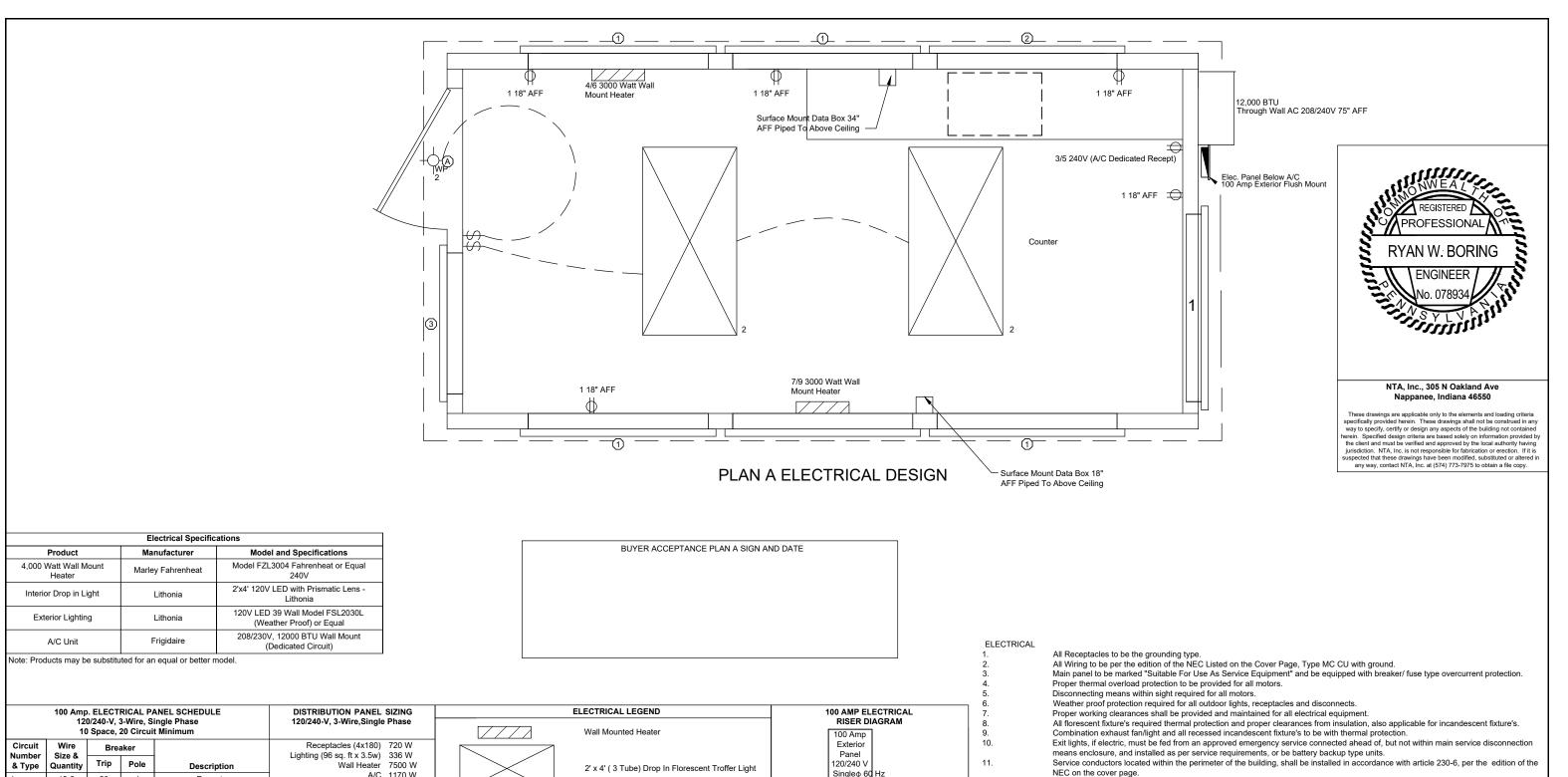
EAB

DRAWN BY:

Twin Modular Services Inc.
Blackwood, NJ

#### 0106 2008-09-23 JOB NO:

ular Services Inc.	FRAMING DETAILS	JOB NO: TMS060617-18	
	MODEL:	DRAWING NO:	
lackwood , NJ	816 GUARDHOUSE	3.2	



& Type	Quantity	1 rip	Pole	Description	Wall Heater 7500 W
1	12-2	20	1	Recepts	A/C 1170 W Exterior Lighting 48.75 W
2	14-2	15	1	Lights	Exterior Lighting 40.75 W
3/5	12-2	20	2	A/C	
4/6	12-2	20	2	Wall Heater	10543.5 W / 360 V = 29.2A Service Rating
7/9	12-2	20	2	Wall Heater	
					•

SCALE:

DATE:

1/2" = 1'-0"

06/07/2017

REVISIONS:

2' x 4' ( 3 Tube) Drop In Florescent Troffer Light 100 Amp Exterior Mount Single Phase 120/208 Main Panel 15A 110V Single Pole Toggle Switch Mounted 48" Above Floor 20A 120V Duplex Receptacle Mounted 18" Above Floor (Unless Noted) 15A 120V GFCI With WP Cover Exterior Wall Mounted Light, Weatherproof

Singleφ 60 Hz - By Others On Site #5 Copper ground to water pipe and/or driven around rod. installed by others Disconnect installed nearest the

conductors

12. 13. 16.

17. point of entrance of the service

Maximum 15 (2) tube florescent lights in 15A circuit, Maximum 10 recepts on 15A circuit, Maximum 7 (4) Tube florescent lights on a 15A circuit.

Maximum 20 (2) tube florescent lights in 20A circuit, Maximum 13 recepts on 20A circuit, Maximum 10 (4) Tube florescent lights on a

120A circuit.

All circuits and equipment shall be grounded in accordance with the appropriate articles of the National Electrical Code (NEC). HVAC equipment shall be provided with readily accessible disconnects adjacent to the equipment served. A unit switch with a marked

"off" position that is a part of the HVAC equipment and disconnects all ungrounded conductors shall be permitted as the disconnecting means where other disconnecting means are also provided by a readily accessible circuit breaker

Prior to energizing the electrical system the interrupt rating of the main breaker must be designed by a local electrical consultant to verify compliance with NEC 110-9.

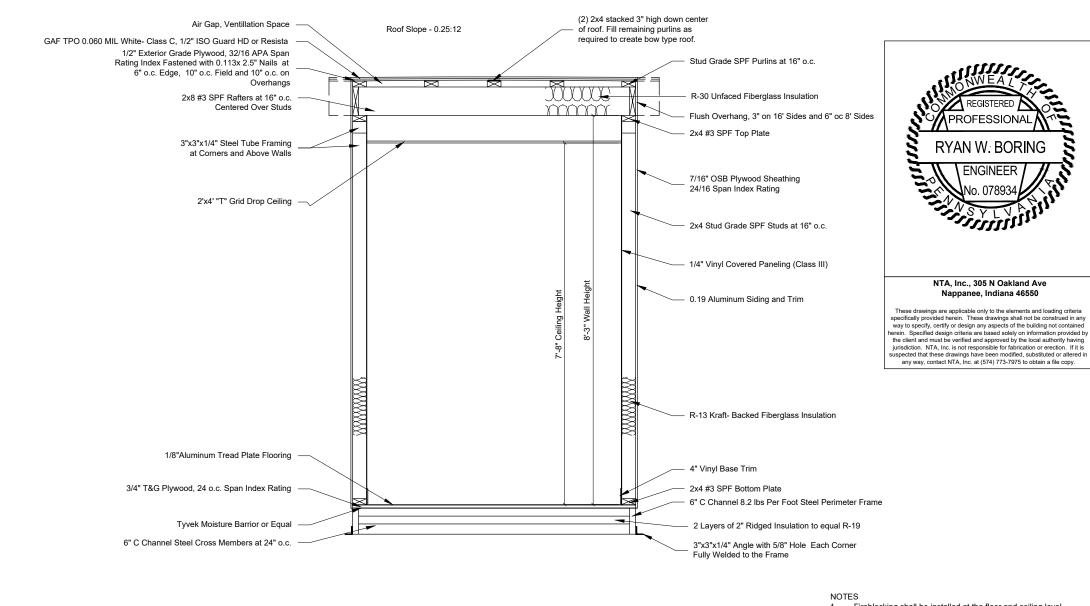
The electrical feeders are designed by others, site installed and subject to review and approval by the authority having jurisdiction.

Ceiling Luminary boxes shall be designed for the purpose and required to support a minimum of 50 lbs.

APPROVED BY: DRAWN BY: EAB Twin Modular Services Inc. Blackwood . NJ

TITLE:	JOB NO:
ELECTRICAL PLAN A	TMS060617-18
MODEL:	DRAWING NO:
816 GUARDHOUSE	4A

0107 2008-09-23



- Fireblocking shall be installed at the floor and ceiling level. Fireblocking material shall be as permitted in North Carolina Building Code Exterior joints in the building envelope that are sources of air leakage, such as floor and ceiling lines, door and windows, or any other penetrations through the building envelope shall be caulked, gasketed, weather-stripped, wrapped or otherwise sealed to limit uncontrolled air movement. Stopping materials installed on-site are subject to local review. approval and inspection.
- In all framed walls, floors and roof/ceiling comprising elements of the building thermal envelope, a vapor retarder shall be installed on the warm-in-winter side of the insulation with the following exceptions:

  A. Where the framed cavity or space is ventilated
  - to allow moisture to escape.
- 3. Where required, the vapor retarder shall be comprised of any material (kraft backing, polyethylene, spray applied) approved for such use and having a perm rating of 1 or less.
- 4. Additional connections per standard construction manual or calculations package

0110.1150 2008-12-02

NEVISIONS.	SCALL.	AFFROVED DT.
	1/2" = 1'-0"	
	DATE:	DRAWN BY:
	06/07/2017	EAB

## Twin Modular Services Inc. Blackwood . NJ

BUYER ACCEPTANCE SIGN AND DATE

ΓITLE:		JOB NO:
	CROSS SECTION	TMS060617-18
MODEL:		DRAWING NO:
	816 GUARDHOUSE	5

