# 8'-0" x 20'-0" (ACTUAL SIZE) 820 GUARD BOOTH WITH HALF BATH Twin Modular Services Inc.

Site Location: CHS Laurel Refinery 802 HWY 212 E Laurel, MT 59044 1001 Lower Landing Road Suit 607, Blackwood , NJ

DESIGN BASIS			
State/Jurisdiction	Montana		
Plumbing Code Electrical Code Mechanical Code	International Building Code, 2012 Edition Uniform Plumbing Code, 2012 Edition National Electrical Code, 2014 Edition International Mechanical Code, 2012 Edition ICC A117.1 - Accessibility, 2009 Edition		

	STRUCTURAL DESIGN CRITERIA				
GRAVIT	Y LOADS		SEISMIC (IBC)		
	Floor Live	50 psf	Seismic Design Category	D	
	Floor Dead	10 psf	Site Class	D	
	Roof Live	20 psf	Importance Category	1.0	
	Roof Dead	10 psf	Risk Category	II	
	Exterior Wall Dead	5 psf	Mapped Accelerations		
SNOW			S <sub>s</sub>	1.56	
	Ground Snow Load	40 psf	S <sub>1</sub>	0.61	
			Spectral Response		
WIND			S <sub>DS</sub>	1.03	
	Wind Speed (Vult)	115 mph	S <sub>D1</sub>	0.6	
	Wind Speed (Vasd)	90 mph	Seismic Force Resisting System	A13	
Exposure Category		С	Design Base Shear	0.16W	
Internal Pressure, GC <sub>n</sub>		+/- 0.18	Response Modification Factor	6.5	
	Base Wind Pressure, P	15 psf			
	Mean Roof Height	15 ft			
SETBAC	CKS		Allowable bearing Pressure	2000 psf	
	Setback	Greater than 10 feet		·	
		to a common or	FLOOD		
		assumed property	Building shall not be located, in		
APPRO	XIMATE WEIGHT	line.	in a flood hazard area as establ		
OF BUIL		8,000 lbs	authority having jurisdiction unle		
OI BOILDING			foundation designed in accorda		
Buil	ding shall not be placed or	the upper	ASCE/SEI 25. The flood resista		
	of a hill or escarpment exc		shall be designed by a registere		
	t in height.	· ·	professional and constructed to		
	-		loads without transferring loads	to the modular	
			structure.		

COMPONENTS AND CLADDING WIND LOADS				
Component	End Zone (psf)	Interior Zone (psf)		
Windows & Siding	+17.7/-23.7	+17.7/-19.2		
Doors	+15/-18.4	+15/-16.5		
Roof Cladding	+10/-44.6	+10/-17.7		
Roof Overhangs	-41.9	-25.5		

#### NOTICE

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LIFE SAFETY SUMMARY					
	Cor	nstruction type	VB		
	Sprink	ler Increase, I <sub>S</sub>	1.00		
	Fronta	ge Increase, I <sub>F</sub>	1.00		
Allowable Area Per Story, A <sub>A</sub> 900 ft <sup>2</sup>					
Allowable Height Above Grade 2 stories					
40 ft					
LEVEL OCCUPANCY AREA OCCUPANT LOAD					
1 B 160 ft <sup>2</sup> 1					

	DRAWING INDEX			
1.	Cover Sheet	l		
1.1	General Notes	l		
1.2	Specifications	l		
2.	Elevations	l		
3.	Floor Plan	l		
3.1	Framing Details	l		
3.2	Framing Details	l		
4.	Electrical Plan	l		
5.	Plumbing Schematic	l		
6.	Cross Section	l		
7	Foundation Design	l		

# THIS PLAN MAY BE REVERSED OR MIRRORED.

#### ACCESSIBILITY EXCEPTIONS

1103.2.6 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 comply with this chapter (Accessibility)

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 Climate Zone 6B.

# 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
- 2. Ramps, stairs and general access to building.
- Electrical service connection (including feeders) to the building.
- 4. Sewer and water supply connections to the building per local authority having jurisdiction.
- 5. A/C heat combo unit, installed on-site.
- Energy Compliance

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

Engineering COA No. C-969

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REVISIONS:	SCALE:	APPROVED BY:
	NTS	
	DATE:	DRAWN BY:
	10/08/2019	FR

Twin Modular Services Inc.
Blackwood, NJ

		0104 2008-0
TITLE:		JOB NO:
	COVER SHEET	TMS091619-19
MODEL:		DRAWING NO:
	8x20 Guardbooth With Restroom	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>h</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>by</sub> = 100 ksi.
   Fasteners shall be installed to avoid splitting of the wood members.
- 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.
- 13. 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.
- 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 Engineering COA No. C-969

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REVISIONS:

SCALE:

NTS

DATE:

DRAWN BY:

10/08/2019

FR

Twin Modular Services Inc.
Blackwood, NJ

		06.04 2007-06-19
TITLE:		JOB NO:
	General Notes	TMS091619-19
MODEL:		DRAWING NO:
	8x20 Guardbooth With Restroom	1.1

#### CHASSIS

Type: Perimeter
Main Beam: 6" C-Channel 8.2 LBS Per Half
Cross Members: 6" C-Channel at 24" o.c.
Paint: Marine Based 2 Part Epoxy - Black
Misc: Steel Fork Slots

#### FLOOF

Insulation: Ridged Insulation R-19
Moisture Barrier: Ridged Insulation
Decking And Covering: 3/4" Plywood descking with 16Ga
Aluminum Tread Plate guard, 1/8" Vinyl Tile in Bath area
Trim: 4" Vinyl Cove Base

#### **EXTERIOR WALLS**

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"x3/16" Steel Tube Beams And Corner Post
Wall Height: 8'-3"
Finished Ceiling Height: 7'-6" AFF
Insulation: R-13 Fiberglass Kraft-Backed Batts
Interior Wall Covering: 1/4" Vinyl Covered Panel (Class III)

## INTERIOR WALLS

Moisture Barrier: Tyvek or Equal

Studs: 2x4 Stud Grade SPF at 16" oc Bottom Plate: Single 2x4 #3 SPF Top Plate: Single 2x4 #3 SPF Wall Height: 8'-3" Finished Ceiling Height: 7'-8" AFF Interior Wall Covering: 1/4" Vinyl Covered Panel (Class III)

## INTERIOR DOOR

Door: 30"x80" Hollow Core, Pre-Finished, Hinged

#### <u>ROOF</u>

Type: Rafter, 2x8 #3 SPF at 16" o.c. Bow Type Roof 2% Slope (Vented)

Ceiling: 2'x4' T-Grid (Class III) Drop Ceiling at 7'-6" AFF

Insulation: R-30 Unfaced Fiberglass Batts

Ventilated Roof

Overhang: 3" on Sidewalls (Unit Not to Exceed 102" Wide)

6" on Endwalls

#### **ELECTRICAL**

Main Distribution Panel: Exterior Serface Mounted (Weatherproof), 100 Amp. 120/240 Volt Single Phase, 3 wire, 60 HZ with Ground, 12 Spaces 24 Circuits

Raceway: Minimum #14/2 with Ground 90 Deg. C Type MC Copper

Interior Lights: (2) 2'x4' 120V LED with Prismatic Lens - Lithonia Type 2GTL460LEZ1LP840

Exterior Lights: (1) Exterior LED Security Light Fixture with Integral Photo Eye Switch (dusk to dawn) per print

Switches: 120V 15 Amp Single Pole Per Print

Receptacles: 120V 15 AMP Duplex Recepts Per Print

120V 15 AMP Duplex GFI Recepts Per Print

120V 15 AMP Duplex GFI, Weatherproof Recepts Per Print

All Electrical Components To Be Factory Wired Directly To Main Service Panel Prior To Shipment

# PLUMBING

Water Closet: Elongated Bowl, Open Front Seat, HC Height

Lav: Wall Hung with Wrist Blade Faucets

Water Heater: Instantaneous, Under Sink 120 V.A.C.- Cronomite or Equal

Supply: Type "L" Copper with Shutoff Valves at Each Fixture

Waste: 3" Schedule 40 PVC

Misc: Wall Hung Mirror- 40" AFF Max. to Bottom of Mirror

Accessories: Toilet Paper Holder (Toilet Paper Holder 24" AFF, Soap Dispenser: Tough Guy - #3FPN8-Wall

Mount-Push Operation, Paper Towel Dispenser: Georgia Pacific-#54338)

Bathroom Exhaust Fan - 120V 75CFM

#### HVA

Air Conditioning: 208/240V 20 Amp, 12000 BTU AC/Heat Combo Unit Single Phase Dedicated Circuit - Garrison Model #2477813 Or Equal. Shipped Loose And Installed By Others On Site Heating: 3000 Watt Wall Heater With Fan 208/240V 20 Amp Dedicated Circuit

# EXTERIOR WINDOWS AND DOORS

Doors: 36x80 Steel, 22"x36" Window SG, Lever Hardware, Lockset and Closer (Minimum U - Value 1.2)
Windows: 36"x39" Vinyl Frame, Sliding, DIG Glazing, Thermal Insulated Per Print (Minimum U - value 0.55, Minimum SHGC - 0.6) - 4 Total Per Print

Tint: All Windows

# **EXTERIOR FINISHES**

Siding: 0.19 Aluminum Light Gray
Trim: 0.19 Aluminum Dark Gray
Wall Sheathing: 7/16" OSB or CDX Plywood, 24/16 APA Span Index Rating
Roof Sheathing: 1/2" CDX Plywood, 32/16 Span Rating
Roof: 0.45 EPDM Rubber Roofing

## **FURNITURE**

(2) 18" X 96" Counter Top - White Malimine

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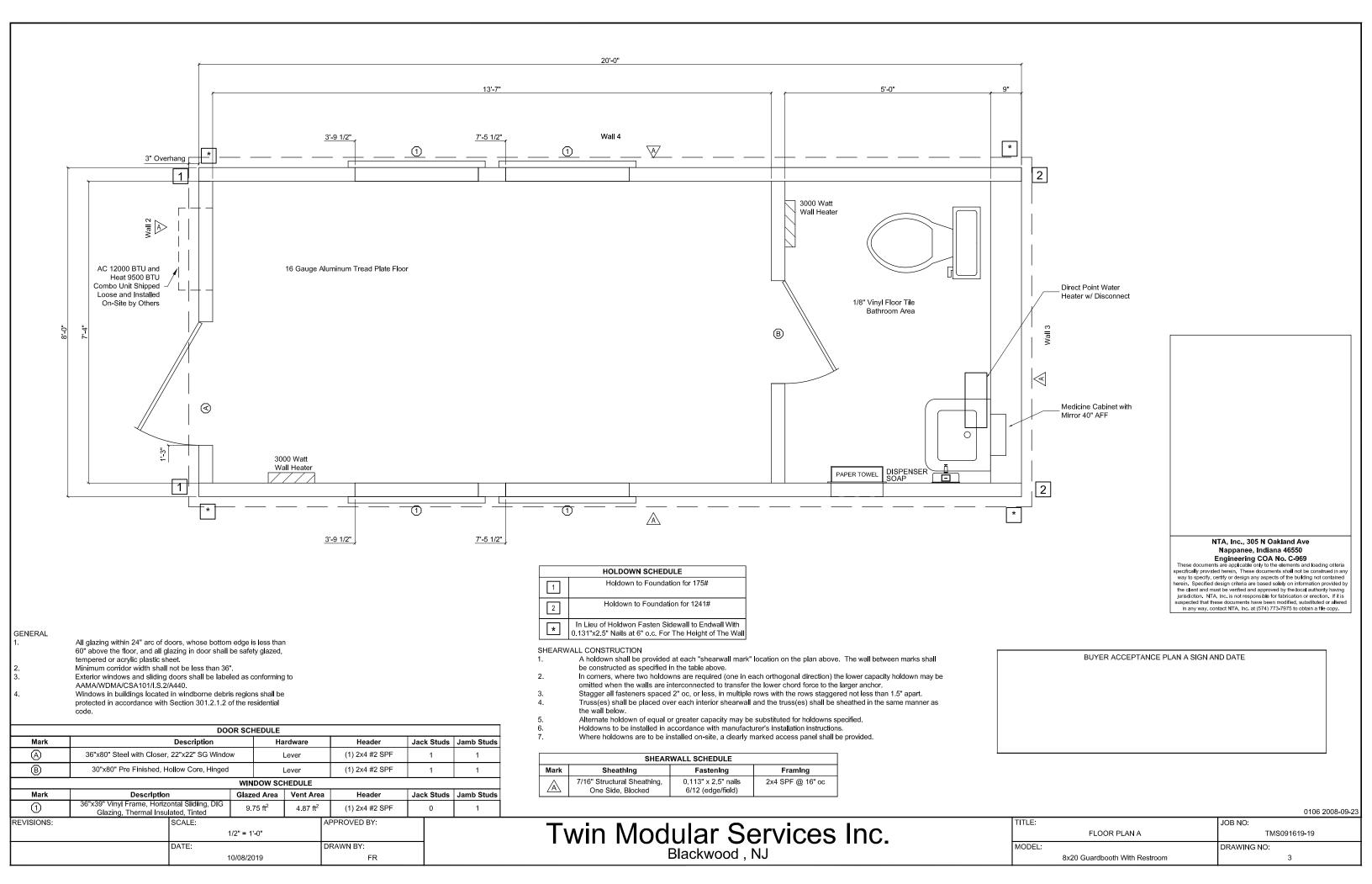
Engineering COA No. C-969

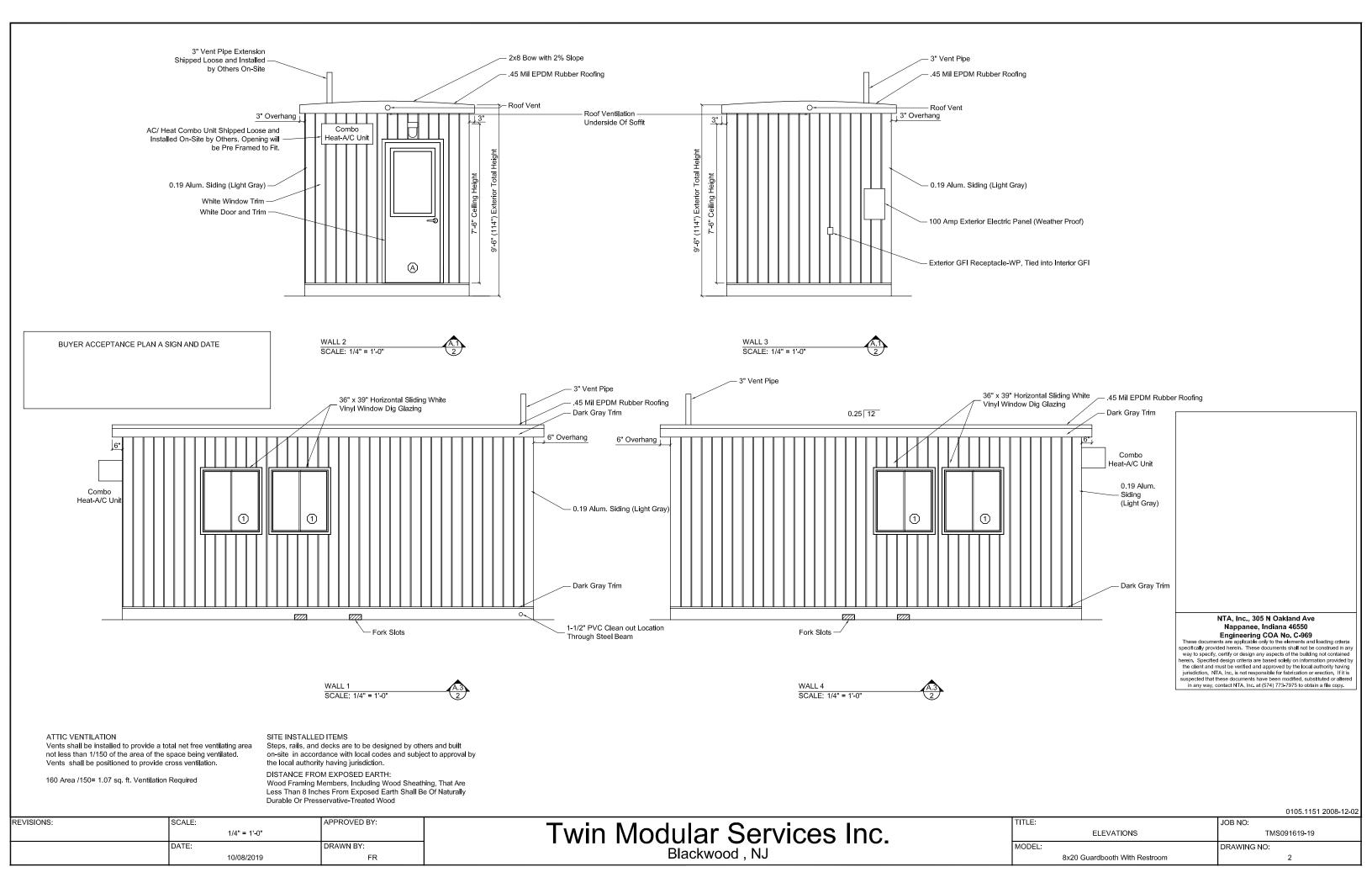
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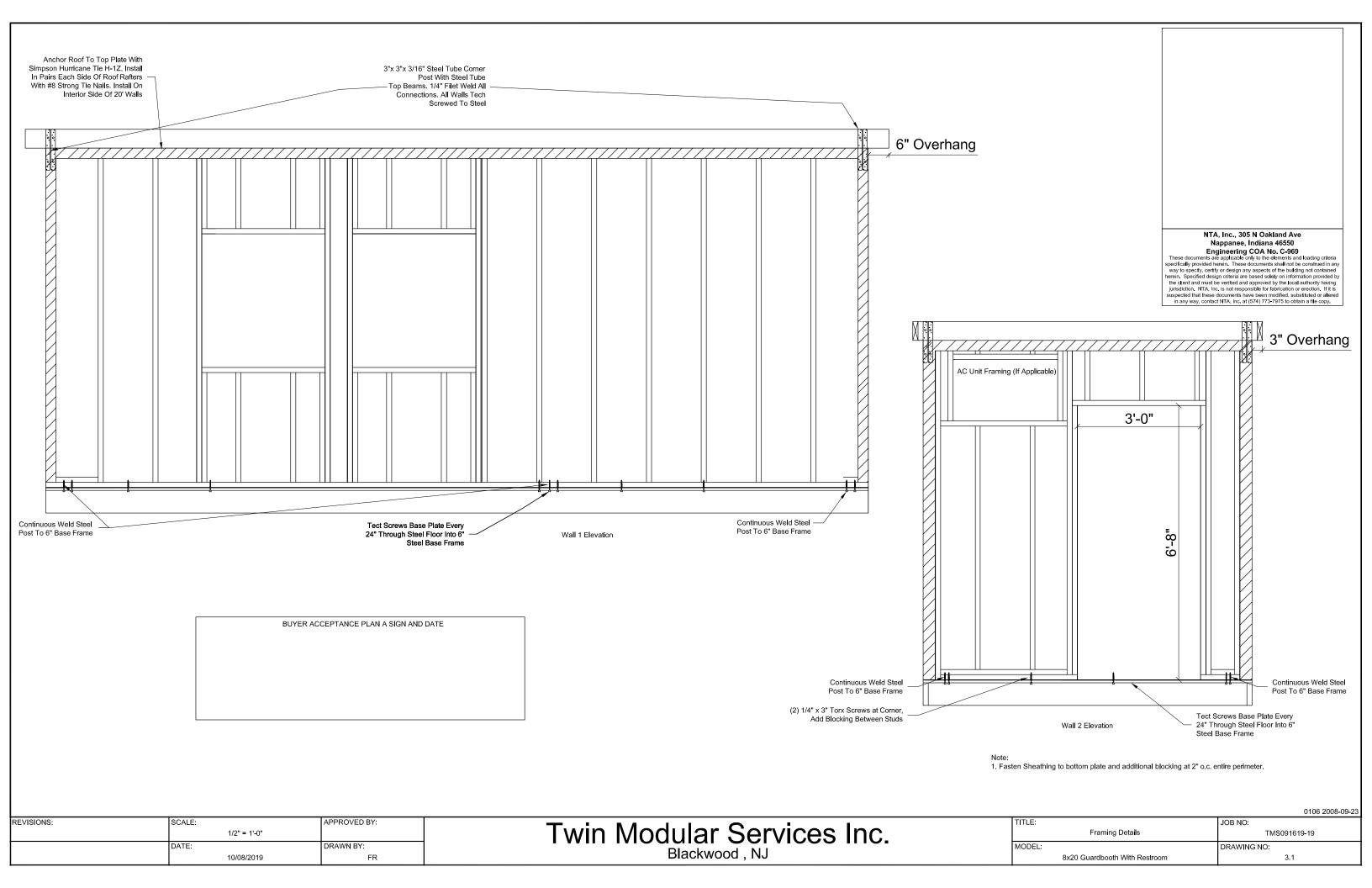
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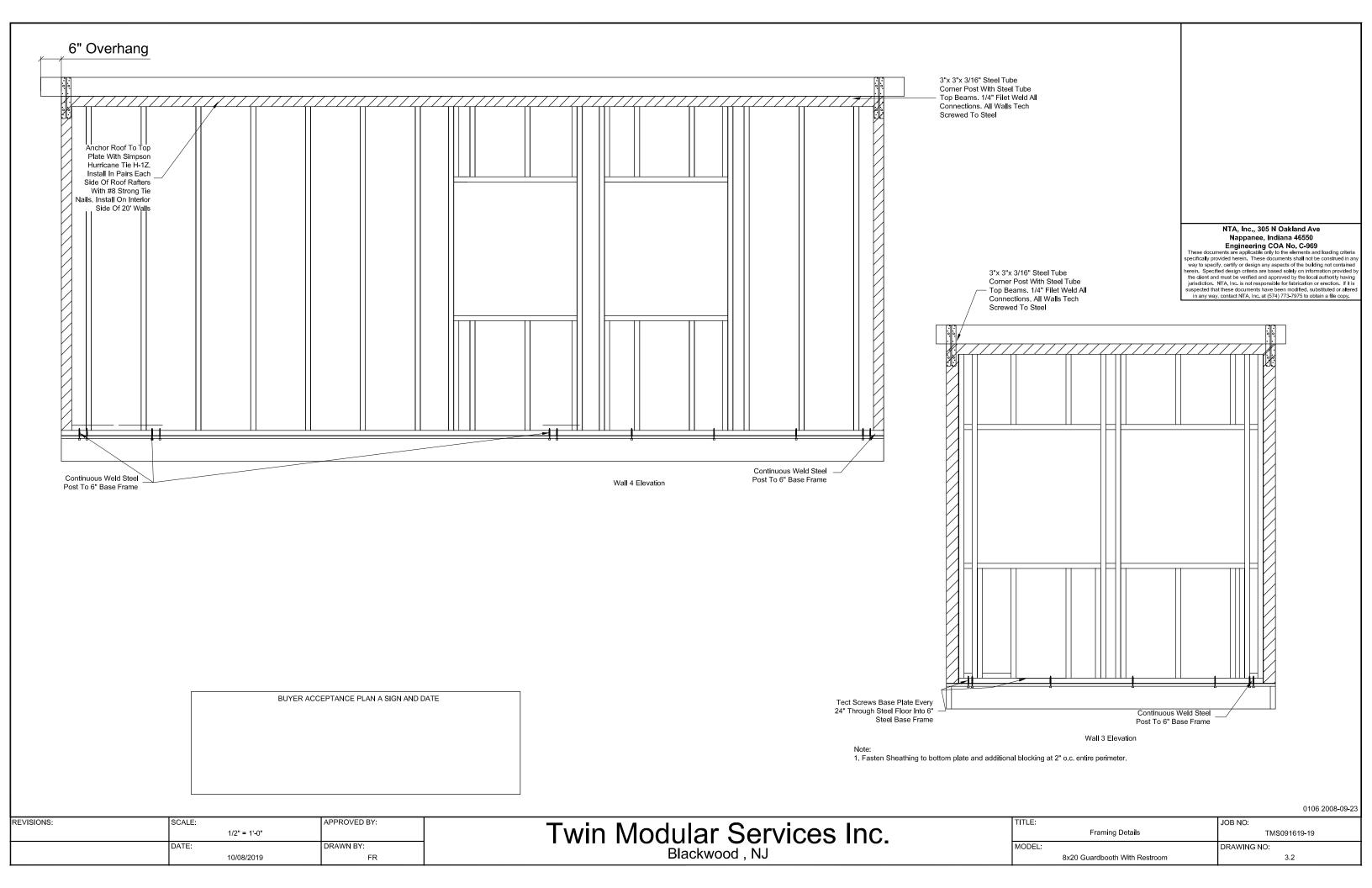
Twin Modular Services Inc.

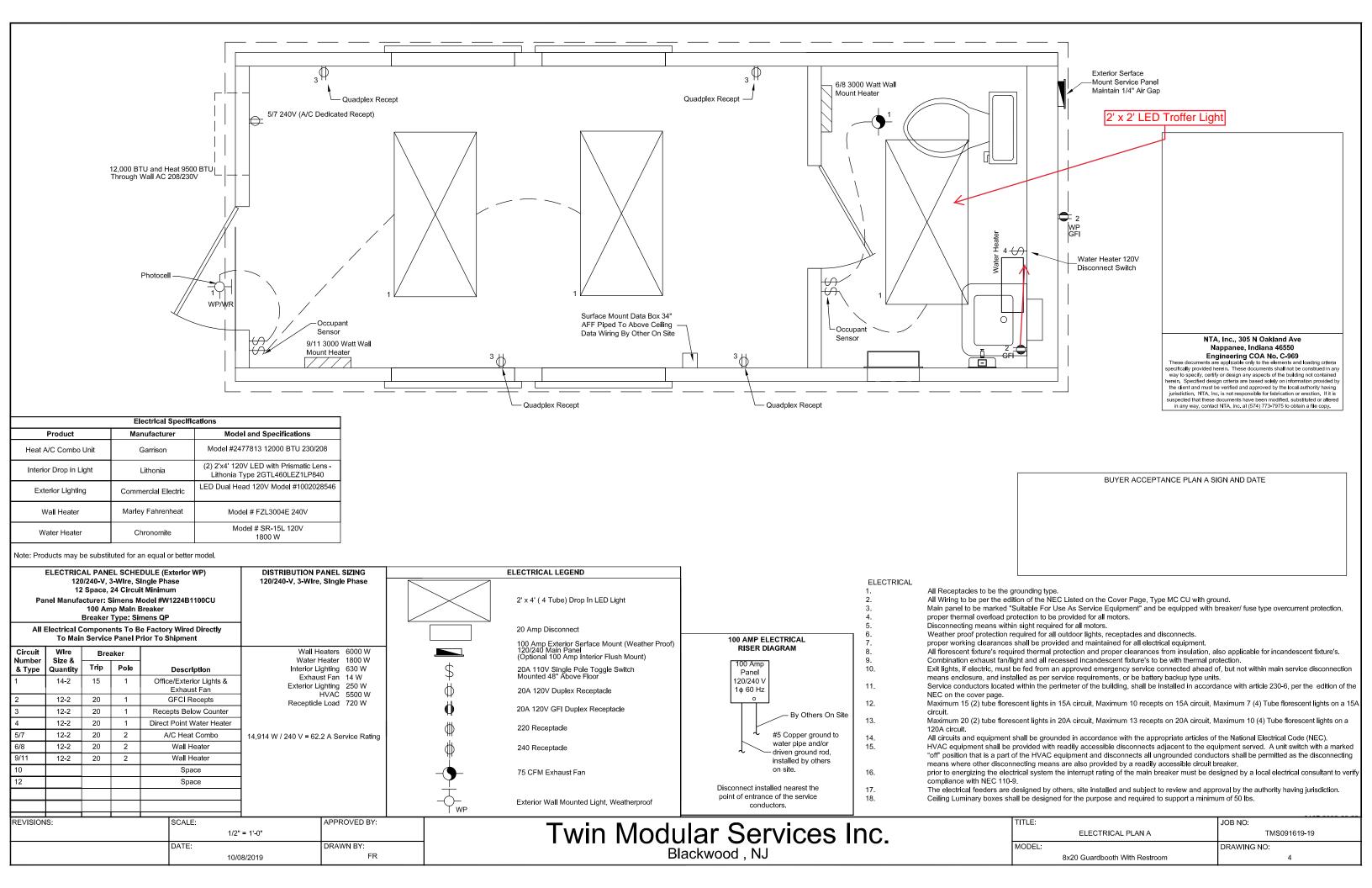
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TITLE:		JOB NO:
	SPECIFICATIONS	TMS091619-19
MODEL:		DRAWING NO:
	8x20 Guardbooth With Restroom	1.2

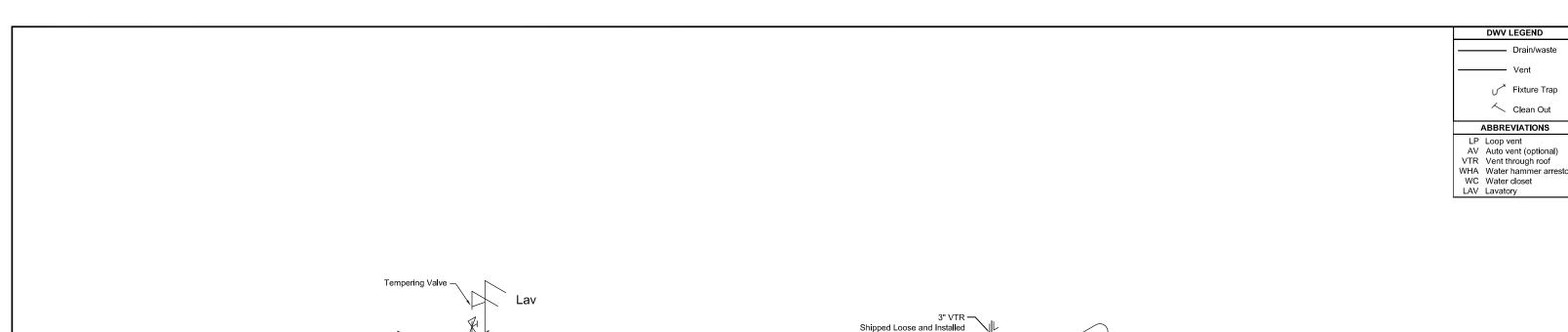


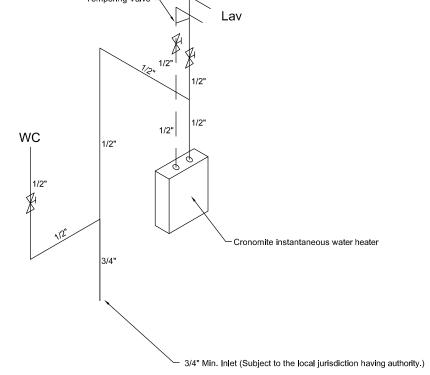








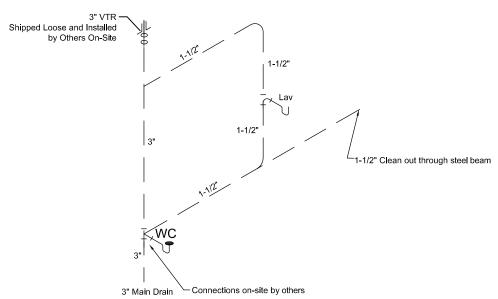




WATER SUPPLY LEGEND

Cold water line

— Hot water line Shut off valve BUYER ACCEPTANCE PLAN A SIGN AND DATE

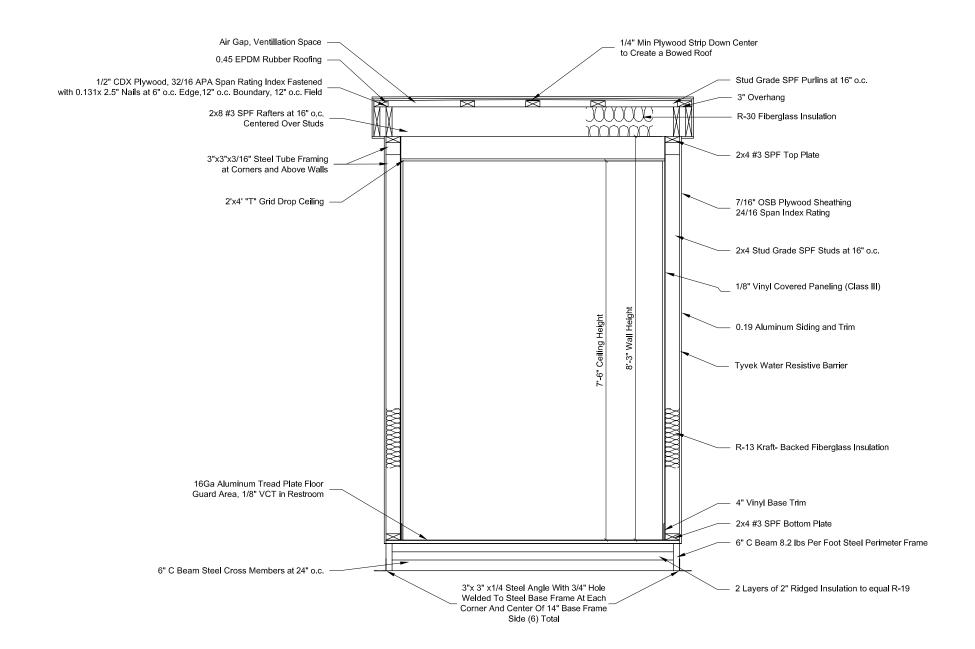


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- Plumbing fixtures shall have separate shut-off valves.
- 2. Water pipes installed in a wall exposed to the exterior shall be located on the heated side of the wall insulation. Water piping installed in an unconditioned attic shall be insulated with R6.5 insulation minimum.
- DWV system shall be either ABS or PVC
- Water supply lines shall be copper or PEX.
- 5. Building drain and cleanouts are to be designed by others on site and subject to review and approval by the local authority having jurisdiction.
- Shower stalls shall be covered with non-absorbent material to a height of 72" above the finish floor.
- 7. A thermal expansion device shall be provided at the water heater if required by the manufacturer's installation instructions.
- A water hammer arrestor shall be installed where quick closing valves are utilized, unless otherwise approved. Water hammer arrestors shall be installed in accordance with manufacturer's installation instructions.
- 9. Building must be connected to a public water supply and sewer system if available.

0110.1150 2008-12-02

					011011100 2000 12 02
REVISIONS:	SCALE:	APPROVED BY:	T ' NA	TITLE:	JOB NO:
	1/2" = 1'-0"		I win Modular Services Inc.	PLUMBING SCHEMATIC	TMS091619-19
	DATE:	DRAWN BY:		MODEL:	DRAWING NO:
	10/08/2019	FR	Blackwood , NJ	8x20 Guardbooth With Restroom	5



Fireblocking shall be installed at the floor and ceiling level. Fireblocking material shall be as permitted in MT 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

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- 2. 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:
  - 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. Connections not specified, per typical systems manual.

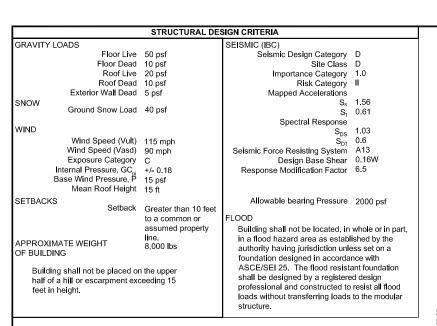
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BUYER ACCEPTANCE SIGN AND DATE

Twin Modular Services Inc. Blackwood, NJ

TITLE:		JOB NO:		
	CROSS SECTION	TMS091619-19		
MODEL:		DRAWING NO:		
	8x20 Guardbooth With Restroom	6		



#### **GENERAL**

- Design basis, design limitations, and design criteria must be reviewed and approved by the authority having jurisdiction. Foundation installation is to be inspected by the local authority having jurisdiction.
- 2. Foundation design is based on minimum presumptive soil properties are to be verified on-site by the local building official or local geotechnical engineer. Minimum soil properties are assumed to exist at the bottom of the footing. Soil classification and bearing capacity must be verified before the foundation is constructed. Soil capacity must be determined by one of the following methods:
- A. Soils investigation in accordance with accepted engineering practice
- Existing soil records from adjacent areas that are deemed acceptable to the local authority having jurisdiction
- C. Presumptive load-bearing capacities based on code soil classifications are permitted to be used where acceptable to the local authority having jurisdiction
- Soil at bottom of footer shall be compacted to 95% of the Standard Proctor Density (ASTM D698).
- 4. Foundation is not designed for placement on expansive or organic soils. If located in areas likely to have expansive soil, or the soil appears to be composed of peat, organic clays, or uncompacted fill, or appears to have unusual conditions, a registered professional geologist or geotechnical engineer must perform a soils investigation.
- 5. Contractor is responsible for erection bracing and to make allowance for building growth.
- Support points may be offset 6" in either direction along supported members to allow for plumbing, electrical or mechanical equipment.

#### MOISTURE PROTECTION

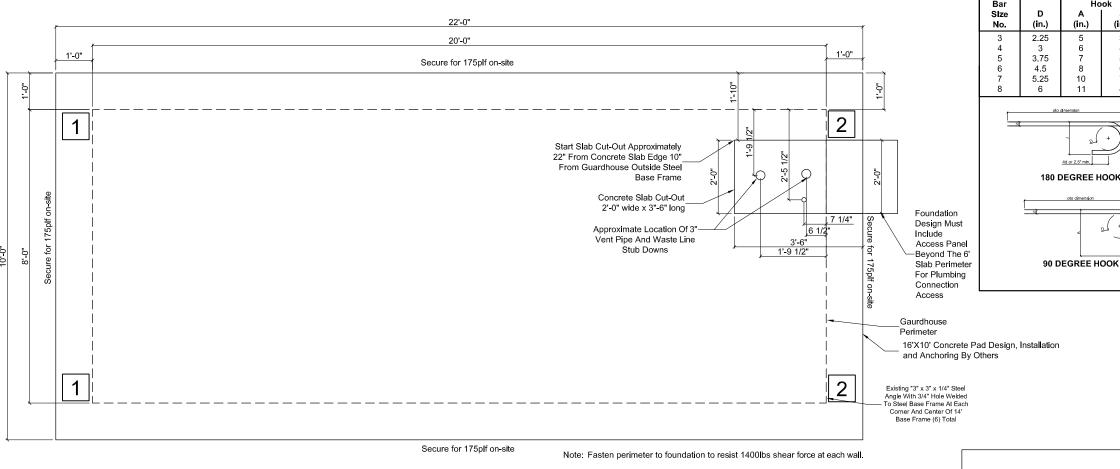
Adjacent grade must be sloped away from the structure for a minimum distance of 10' measured
perpendicular to the face of the wall. The finished grade shall be sloped not less than one unit vertical in
20 units horizontal (6" in first 10' away from building).

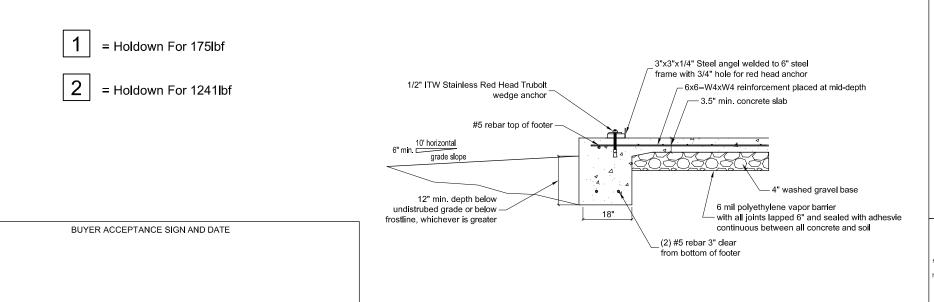
#### CONCRETE CONSTRUCTION

- I. Concrete shall be of normal weight concrete with a compressive strength not less than 3000 psi at 28 days.
- 2. All concrete shall be in accordance with the latest edition of ACI-318 and ACI-315.
- B. Portland cement shall conform to ASTM C150; aggregates shall conform to ASTM C33.
- 4. Reinforcement shall be secured in place prior to placement of concrete within a tolerance of  $\pm -3/8$ " where d is less than or equal to 8" or  $\pm -1/2$ " where d is greater than 8".
- 5. Mix water shall be free from injurious quantities of oil, alkali, vegetable mater and salt. Non-potable water shall not be used in mixing concrete.6. Concrete exposed to freezing temperatures shall be air entrained to 6% air content with a maximum coarse
- concrete exposed to freezing temperatures snail be air entrained to 6% air content with a maximum coars
  aggregate size not less than 3/4-inch. Air-entraining admixtures shall conform to ASTM C494.
- 7. All exterior footers shall be placed below the frostline and not less than 12" below undisturbed grade

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SLAB ON GRADE PERIMETER FOOTER NTA, Inc., 305 N Oakland Ave Nappanee, Indiana 46550

Engineering COA No. C-969

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STANDARD END HOOKS

Degree

(in.)

Degre

Hook

(in.)

10

12

THIS DRAWING IS NOT FOR CONSTRUCTION. This drawing is intended to show the minimum foundation loads and minimum foundation support locations and is not to be used for construction or certification of any foundation for any building. The foundation for this modular building shall be designed and sealed by a local engineer for the conditions present on-site in accordance with local codes. Additionally, the foundation designed by others shall be reviewed and approved by the local authority having jurisdiction.

#### Notor

- Pier locations shown on this plan are for the purpose of identifying the location of the required blocking points and the loads applied at each point for this building, Foundation requirements are not known due to varying soil conditions.
- Foundation Design by others. Foundation review and approval is to be performed by the local official having jurisdiction.
- Provide positive drainage under unit.

0110.1150 2008-12-02

REVISIONS:	SCALE: 3/8" = 1'-0"	APPROVED BY:	Twin Modular Services Inc.	TITLE: Foundation Design	JOB NO: TMS091619-19
	DATE:	DRAWN BY:	Blackwood , NJ		DRAWING NO:
	10/08/2019	FR	Blackwood, No	8x20 Guardbooth With Restroom	/