

# 810 O/A MODULAR GUARD BOOTH

(8' x 10' ACTUAL SIZE)

## OHIO DESIGN CODES

2007 OHIO BUILDING CODE  
 2007 OHIO MECHANICAL CODE  
 2007 OHIO PLUMBING CODE  
 2005 NATIONAL ELECTRICAL CODE

## DESIGN LIVE LOADS

FLOOR:..... 50 PSF LIVE LOAD  
 10 PSF DEAD LOAD

ROOF:..... 40 PSF LIVE LOAD  
 10 PSF DEAD LOAD

CONSTRUCTION TYPE:..... 5B  
 OCCUPANCY/USE GROUP: B  
 BUILDING AREA:..... 80 SQ FT.  
 MINIMUM BUILDING  
 SET BACK:..... GREATER THAN 10 FEET TO A  
 COMMON OR ASSUMED PROPERTY LINE

SEISMIC ZONE:..... GROUP I, CATEGORY C  
 MAXIMUM WIND LOAD:..... 90 MPH, EXPOSURE C  
 OCCUPANT LOAD:..... 1

## DRAWING INDEX

| DRAWING NUMBER | DESCRIPTION                          |
|----------------|--------------------------------------|
| #1             | SPECIFICATIONS                       |
| #2             | ELEVATIONS                           |
| #3             | FLOOR / ELECTRICAL PLAN              |
| #4             | CROSS SECTION / BLOCKING POINTS PLAN |

## SPECIAL LIMITATIONS:

ADEQUATE HANDICAPPED RESTROOM FACILITIES TO HANDLE THE 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.

|                               |                   |   |                   |                     |
|-------------------------------|-------------------|---|-------------------|---------------------|
| TITLE:<br>COVER SHEET         | DRAWN BY:<br>R.M. | TWIN MODULAR SERVICES, INC.                           | DATE:<br>11/15/07 | JOB NO:<br>2007-373 |
| MODEL:<br>810 O/A GUARD BOOTH | REV:              | 1001 LOWER LANDING RD, SUITE 607, BLACKWOOD, NJ 08012 | SCALE:<br>NTS     | DRAWING NO:<br>CVR  |

CHASSIS

TYPE: PERIMETER  
MAIN BEAM: 6" JR. I-BEAM  
CROSS MEMBERS: 6" JR. I-BEAM @ 24" O.C.  
PAINT: ASPHALT BASED

FLOOR

INSULATION: NONE  
DECKING: 3/4" PLYWOOD, 24 O.C. SECURED DIRECTLY TO STEEL FRAME  
OPTIONAL: 1/4" STEEL PLATE FLOOR W/ NON-SKIP EPOXY PAINT  
COVERING: 1/8"x12"x12" VINYL TILE  
TRIM: 4" VINYL COVE BASE  
MOISTURE BARRIER: TYVEK OR EQUAL

EXTERIOR WALLS

STUDS: 2"x4" STUD GRADE SPF @ 16" O.C.  
BOTTOM PLATE: SINGLE 2"x4" #3 SPF  
TOP PLATE SINGLE 2"x4" #3 SPF  
WALL HEIGHT: 8'-3"  
FINISHED CEILING HT: 7'-8" A.F.F.  
INSULATION: R-13 FIBERGLASS KRAFT-BACKED BATTS  
INT. WALL COVERING: 1/4" VINYL COVERED PANEL (CLASS III)  
INT. WALL COVERING OPTION: 1/2" VINYL COVERED GYP. (CLASS I)

ROOF

TYPE: RAFTER, 2x6 WOOD @ 16" O.C.  
OPTIONAL: 6" OVERHANG ALL SIDES  
CEILING: 2'x4' T-GRID DROP CEILING @ 7'-8" A.F.F.  
INSULATION: R-13 KRAFT FACED FIBERGLASS BATTS  
OPTION: 6" OVERHANG

ELECTRICAL

MAIN DISTRIBUTION PANEL: EXTERIOR (WEATHERPROOF) 100 AMP 120/240 VOLT SINGLE PHASE, 3 WIRE, 60 HZ. WITH GROUND  
RACEWAY: MINIMUM #14/2 W/ GROUND 90 DEG. C. TYPE MC, COPPER  
INTERIOR LIGHTS: 2'x4' TWO TUBE LAY-IN FLUORESCENT TROFFER PER PRINT  
EXTERIOR LIGHTS: 150 WATT QUARTZ HALOGEN SECURITY LIGHT (WEATHERPROOF)  
SWITCHES: 120 V. 15 AMP SINGLE POLE PER PRINT  
RECEPTACLES: 120 V. 15 AMP DUPLEX RECEPES PER PRINT

H.V.A.C.

HEATING: 220V, DEDICATED CIRCUIT, 20 AMP, 8' ELEC. BASEBOARD HEATER,  
AIR CONDITIONING: 110V, DEDICATED CIRCUIT, 8000 BTU WALL MOUNT,  
OPTION: 11,600 HEAT / AIR CONDITIONER COMBINATION UNIT, WALL MOUNTED

EXTERIOR WINDOWS & DOORS

DOORS: 36"x80" ALUM. DOOR, ALUM. FRAME, FOAM INSULATED W/ 14"x14" S.G., LEVER PASSAGE HARDWARE  
OPTION: 36"x80" STEEL DOOR W/ 22"x30" WINDOW (S.G.), CLOSER

WINDOWS: (5) 36"x39" HORIZONTAL SLIDER, ALUM. MILL FRAME, SINGLE GLAZE

(1) 36"x39" CLEAR TEMPERED GLASS - HORIZONTAL SLIDER, ALUM. MILL FRAME

OPTION: 36"x39" HORIZONTAL SLIDER, VINYL THERMAL INSULATED WINDOWS

OPTION: (1) 24"x36" CLEAR TEMPERED GLASS TICKET WINDOW WITH STAINLESS STEEL SHELF, SPEAK-THRU & 1/2 ROUND TICKET SERVICE

OPTION: 36"x39" PICTURE WINDOW - NON OPERABLE, THERMAL PANE DIG GLAZING W/ VINYL FRAME OR SINGLE GLAZING, MILL FINISH FRAME

EXTERIOR FINISHES

SIDING: .019 ALUMINUM  
TRIM: .019 ALUMINUM  
WALL SHEATHING: 7/16" OSB OR CDX PLYWOOD, 16/0 SPAN INDEX RATING  
ROOF SHEATHING: 1/2" CDX PLYWOOD, 16/0 SPAN RATING  
ROOF: .45 EPDM RUBBER ROOFING

FURNITURE

2'-0" x 7'-4" COUNTER TOP - WHITE MICA

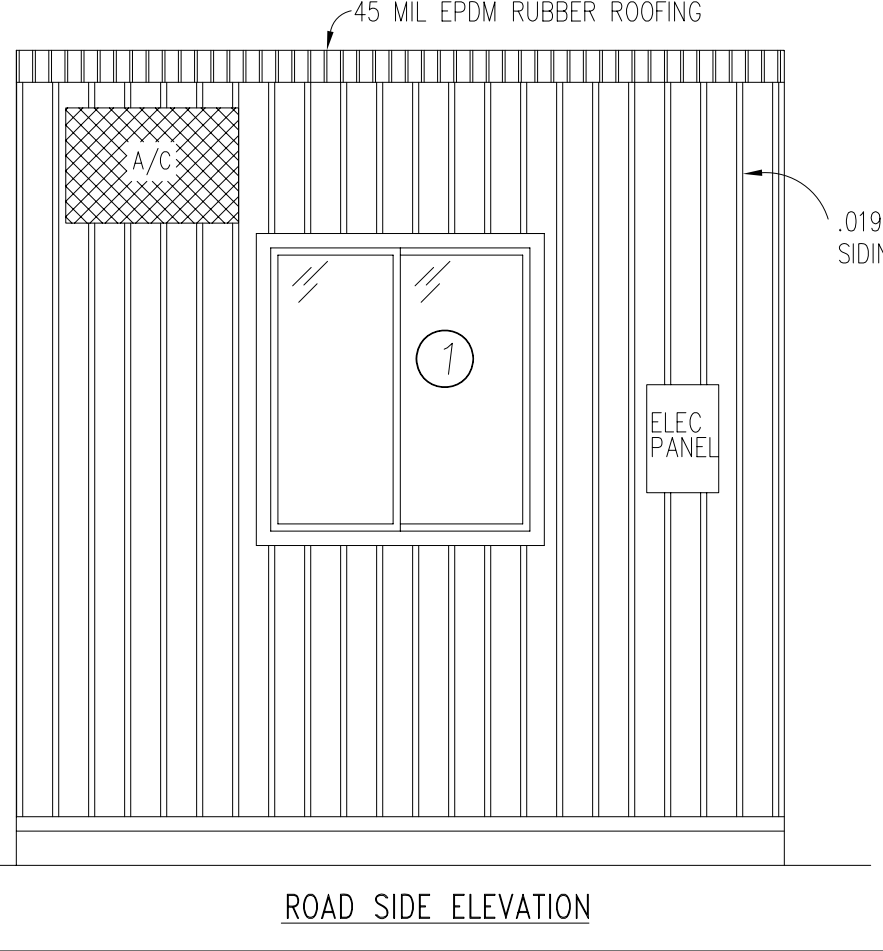
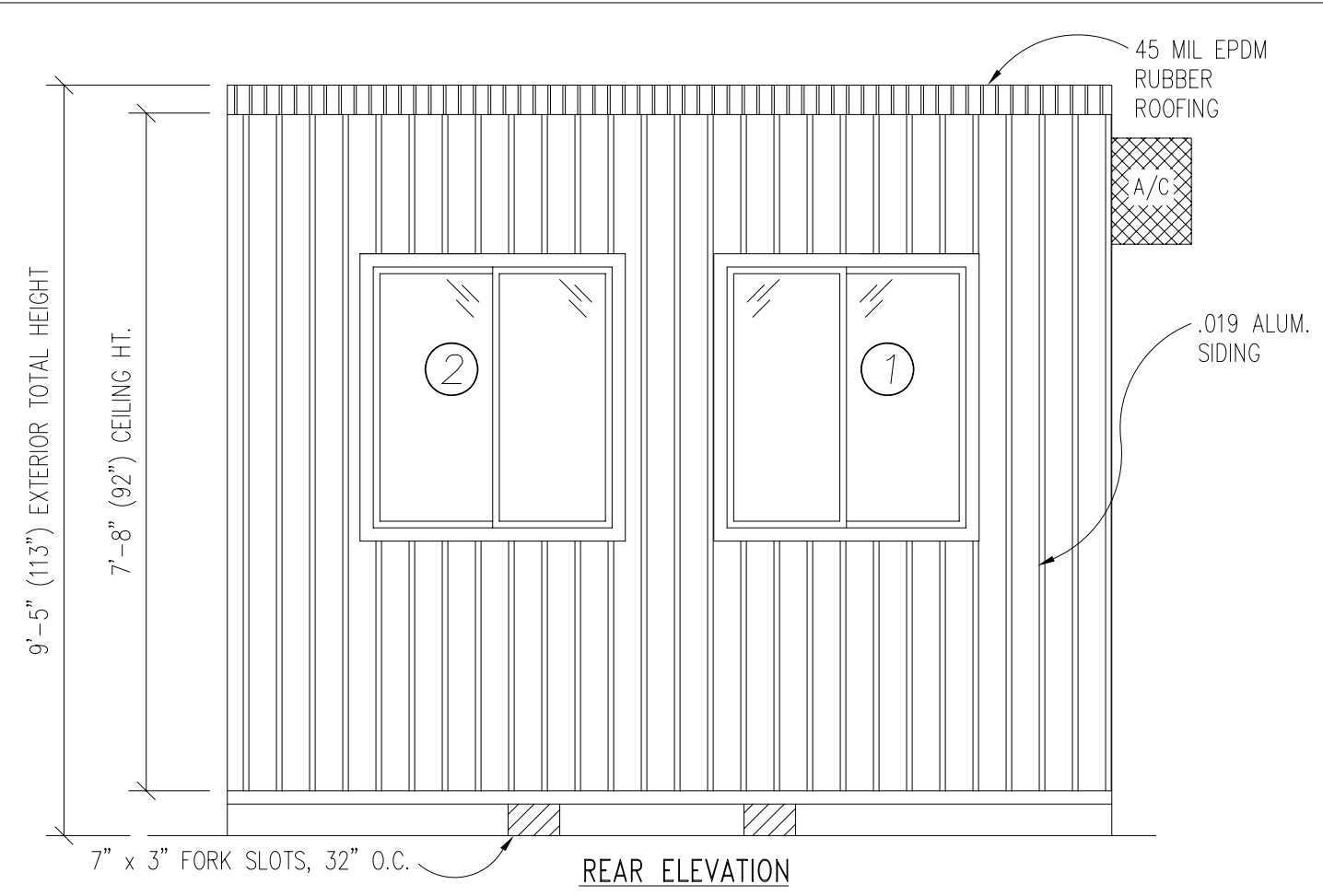
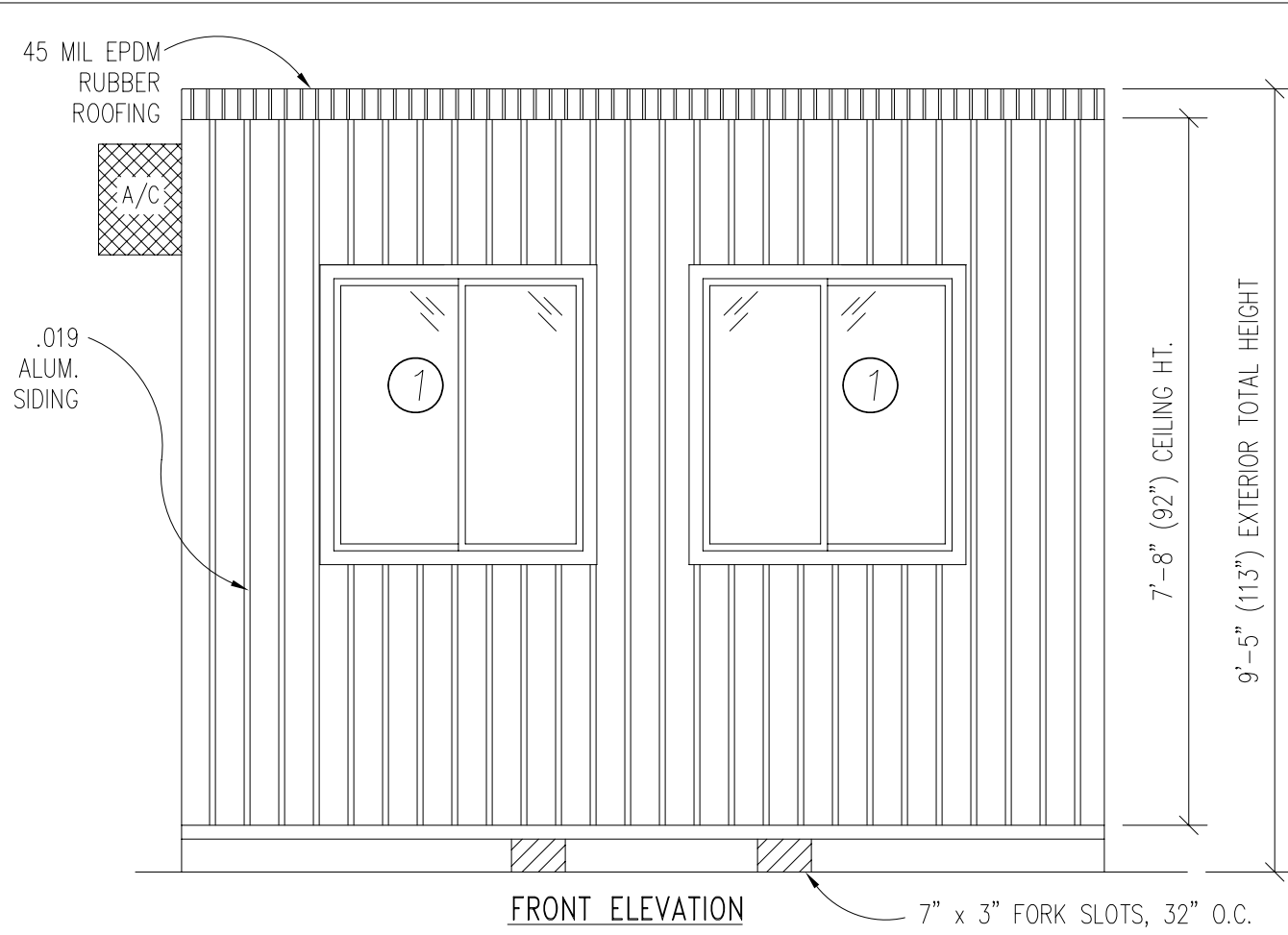
TITLE: SPECIFICATIONS  
MODEL: 810 O/A GUARD BOOTH

DRAWN BY: R.M.  
REV:

TWIN MODULAR SERVICES, INC.  
1001 LOWER LANDING RD, SUITE 607, BLACKWOOD, NJ 08012

DATE: 11/14/07  
SCALE: NTS

JOB NO: 2007-373  
DRAWING NO: 1



**DOOR AND WINDOW SCHEDULE**

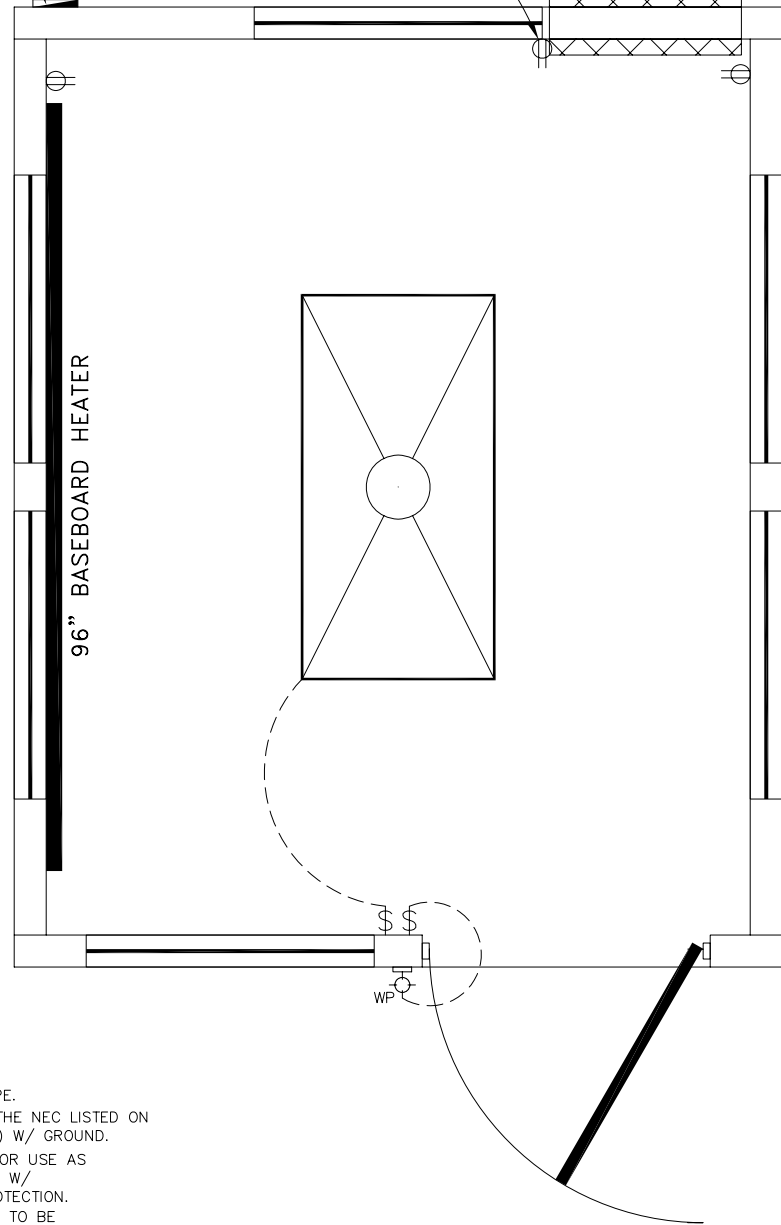
|   |   |
|---|---|
| Ⓐ | 36"x80" ALUM. DOOR, ALUM. FRAME, FOAM INSULATED W/ 14"x14" S.G., LEVER PASSAGE HARDWARE |
| ① | (1) 36"x39" HORIZONTAL SLIDER, ALUM. MILL FRAME, SINGLE GLAZE                           |
| ② | (2) 36"x39" CLEAR TEMPERED GLASS - HORIZONTAL SLIDER, ALUM. MILL FRAME                  |

|   |                     |              |            |
|---|---------------------|--------------|------------|
| TITLE:  | ELEVATIONS          | DRAWN BY:    | R.M.       |
| MODEL:  | 810 O/A GUARD BOOTH | REV:         |            |
| TWIN MODULAR SERVICES, INC.                           |                     | DATE:        | 11/14/07   |
| 1001 LOWER LANDING RD, SUITE 607, BLACKWOOD, NJ 08012 |                     | SCALE:       | 1/4"=1'-0" |
|   |                     | JOB NO.:     | 2007-373   |
|   |                     | DRAWING NO.: | 2          |

100 AMP, EXTERIOR  
ELEC. PANEL

DEDICATED RECEPT  
FOR A/C

A/C  
6500 BTU  
WALL MOUNTED, +76"

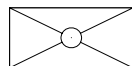


**ELECTRICAL**

1. ALL RECEPTACLES TO BE GROUNDING TYPE.
2. ALL WIRING TO BE PER THE EDITION OF THE NEC LISTED ON THE COVER PAGE, TYPE NM ROMEX (CU) W/ GROUND.
3. MAIN PANEL TO BE MARKED "SUITABLE FOR USE AS SERVICE EQUIPMENT", AND BE EQUIPPED W/ BREAKER/FUSE TYPE OVERCURRENT PROTECTION.
4. PROPER THERMAL OVERLOAD PROTECTION TO BE PROVIDED FOR ALL MOTORS.
5. DISCONNECTING MEANS WITHIN SIGHT REQUIRED FOR ALL MOTORS.
6. WEATHERPROOF PROTECTION REQUIRED FOR ALL OUTDOOR LIGHTS, RECEPTACLES AND DISCONNECTS.
7. PROPER WORKING CLEARANCES TO BE PROVIDED AND MAINTAINED ABOUT ALL ELECTRICAL EQUIPMENT.
8. ALL FLUORESCENT FIXTURES REQUIRE THERMAL PROTECTION AND PROPER CLEARANCES FROM INSULATION, ALSO APPLICABLE FOR INCANDESCENT FIXTURES.
9. COMBINATION EXHAUST FAN/LIGHT AND ALL RECESSED INCANDESCENT FIXTURES TO BE WITH THERMAL PROTECTION.
10. EXIT LIGHTS (IF ELECTRIC) MUST BE FED FROM AN APPROVED EMERGENCY SERVICE CONNECTED AHEAD OF, BUT NOT WITHIN MAIN SERVICE DISCONNECTION MEANS ENCLOSURE, AND INSTALLED AS PER SERVICE REQUIREMENTS, OR BE BATTERY BACKUP TYPE UNITS.
11. SERVICE CONDUCTORS, LOCATED WITHIN THE PERIMETER OF THE BUILDING, SHALL BE INSTALLED IN ACCORDANCE WITH ARTICLE 230-6, PER THE EDITION OF THE NEC LISTED ON THE COVER PAGE.
12. MAXIMUM 15 (2) TUBE FLOURESCENT LIGHTS ON 15A CIRCUIT, MAXIMUM 10 RECEPTS ON 15A CIRCUIT, MAXIMUM 7 (4) TUBE FLOURESCENT LIGHTS ON 15A CIRCUIT.
13. MAXIMUM 20 (2) TUBE FLOURESCENT LIGHTS ON 20A CIRCUIT, MAXIMUM 13 RECEPTS ON 20A CIRCUIT, MAXIMUM 10 (4) TUBE FLOURESCENT LIGHTS ON 20A CIRCUIT.

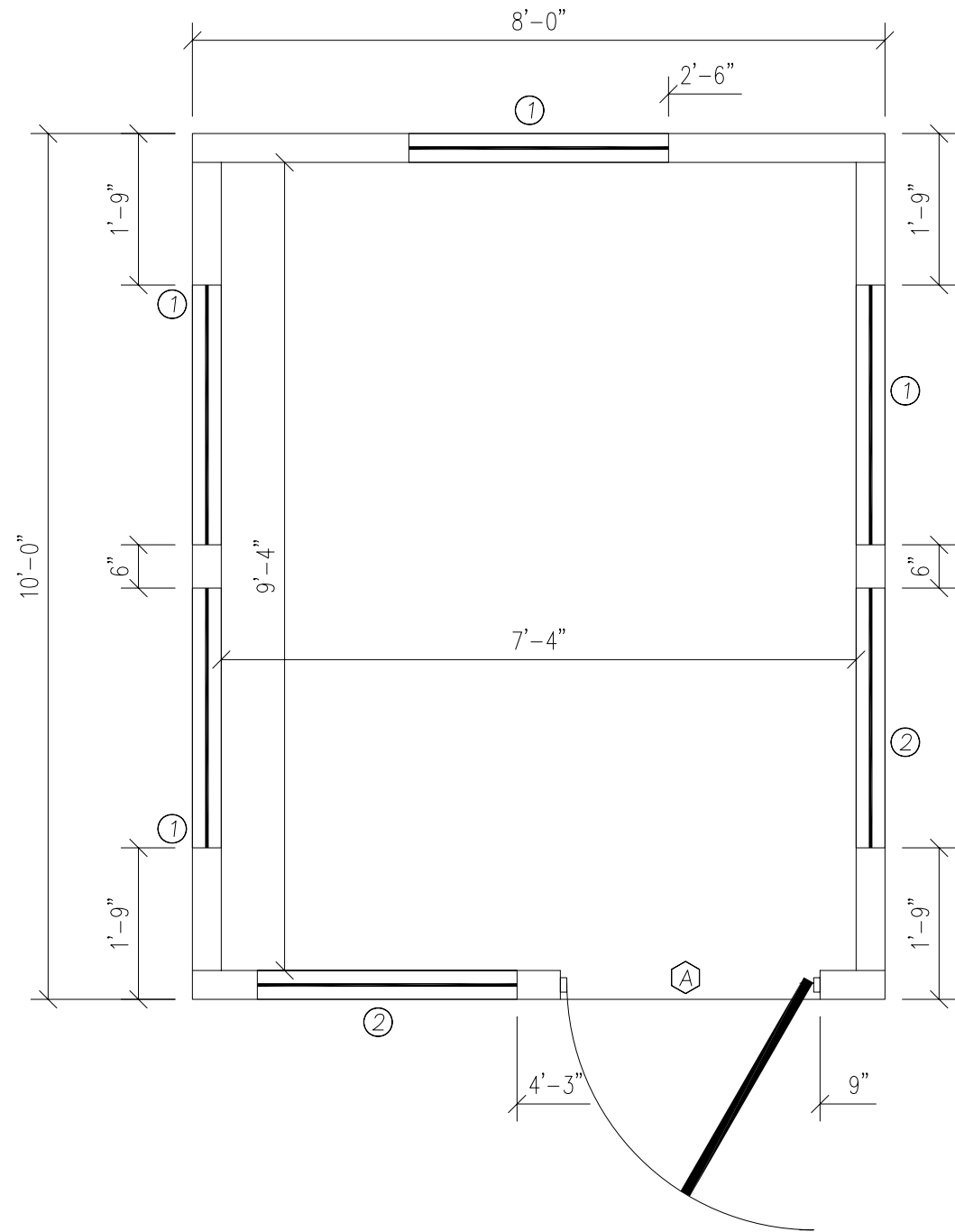
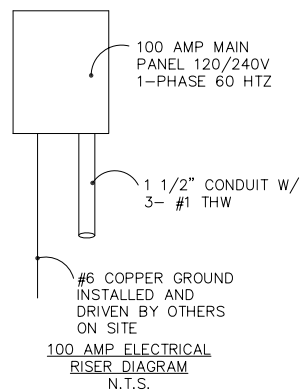
AMPACITIES OF INSULATED CONDUCTORS  
90°C WIRE COPPER

| AWG | MAXIMUM AMPACITY |
|-----|------------------|
| 14  | 15 AMP           |
| 12  | 20 AMP           |
| 10  | 30 AMP           |
| 8   | 50 AMP           |
| 6   | 65 AMP           |
| 4   | 85 AMP           |
| 3   | 100 AMP          |
| 2   | 115 AMP          |
| 1   | 130 AMP          |



**ELECTRICAL LEGEND**

- 2'x4' (4) TUBE DROP-IN FLUORESCENT LIGHT
- 100A 120/240V MAIN PANEL, SURFACE MOUNTED EXTERIOR
- 15A 110V SINGLE POLE TOGGLE SWITCH +48"
- 15A 120V DUPLEX RECEPTACLE (RECEPTS AT +34" UNLESS NOTED)
- 150 WATT QUARTZ HALOGEN SECURITY LIGHT, WEATHERPROOF
- 96" ELECTRIC BASEBOARD HEATER



**DOOR AND WINDOW SCHEDULE**

- (A) 36"x80" ALUM. DOOR, ALUM. FRAME, FOAM INSULATED W/ 14"x14" S.G., LEVER PASSAGE HARDWARE
- (1) (5) 36"x39" HORIZONTAL SLIDER, ALUM. MILL FRAME, SINGLE GLAZE
- (2) (1) 36"x39" CLEAR TEMPERED GLASS - HORIZONTAL SLIDER, ALUM. MILL FRAME

TITLE: FLOOR / ELECTRICAL PLAN

DRAWN BY: R.M.

TWIN MODULAR SERVICES, INC.

DATE: 11/15/07

JOB NO: 2007-373

MODEL: 810 O/A GUARD BOOTH

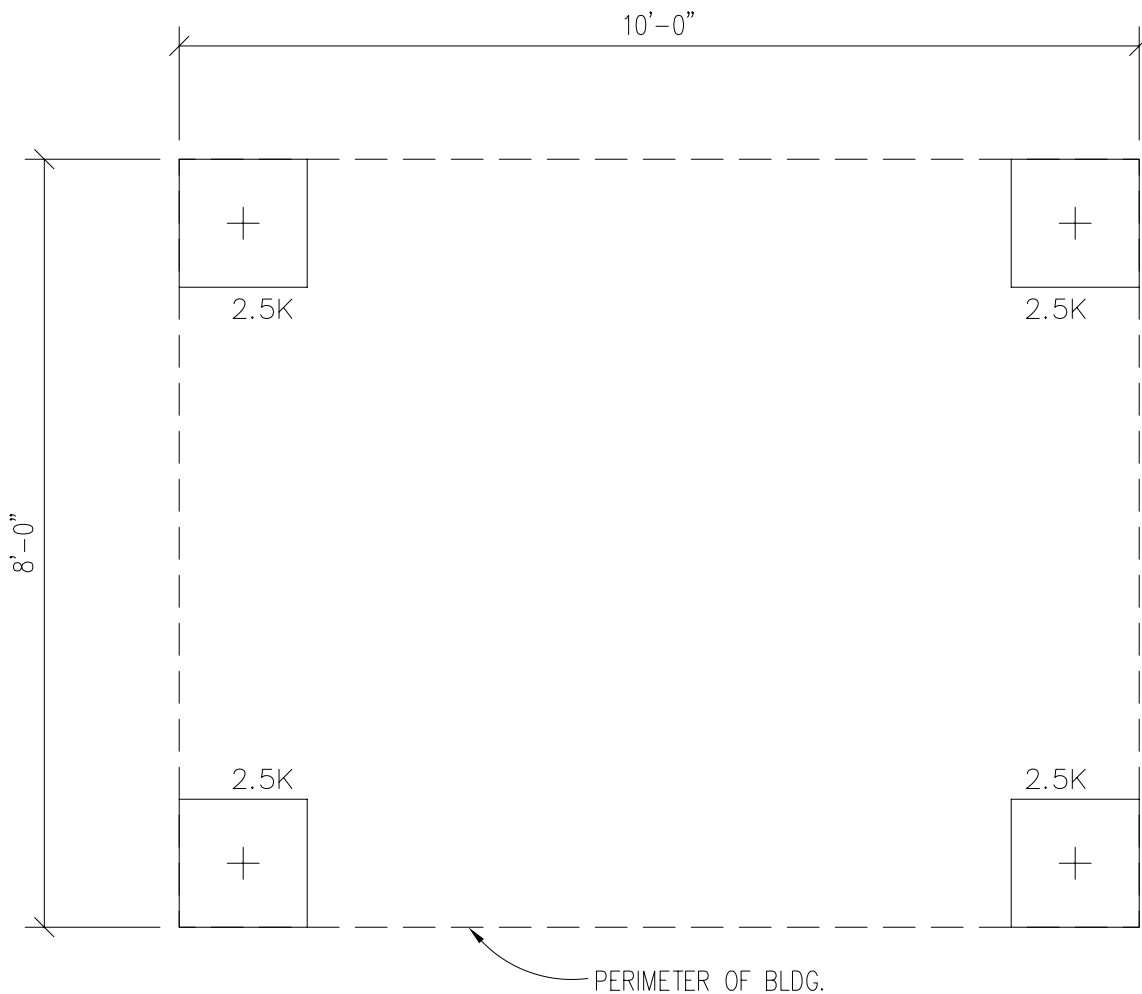
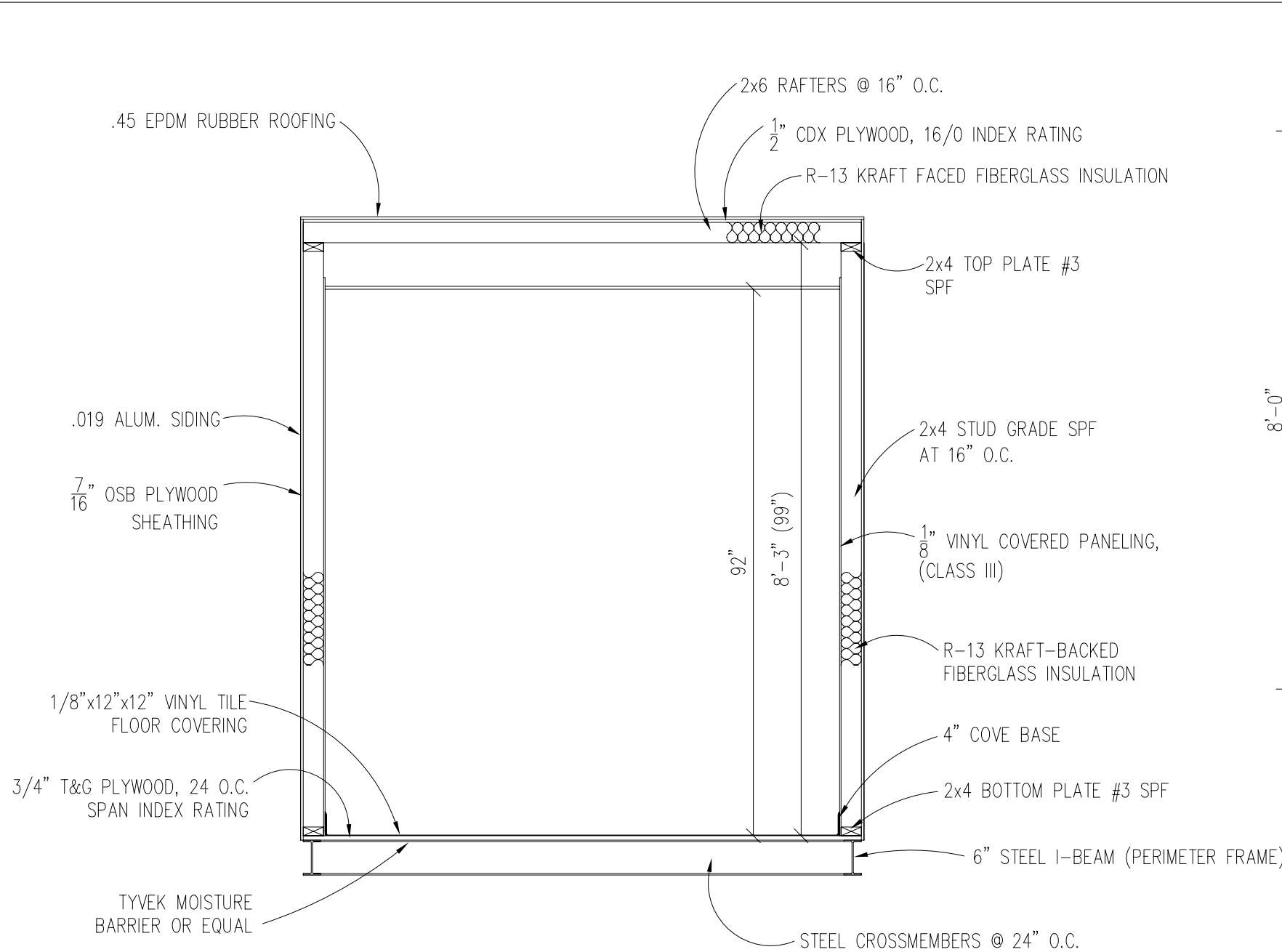
REV:

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

1001 LOWER LANDING RD, SUITE 607, BLACKWOOD, NJ 08012

DRAWING NO:

3



**BUILDING CODE**

1. ATTIC VENTILATION SHALL NOT BE LESS THAN 1/150th OF THE HORIZONTAL AREA TO BE VENTILATED.
2. THE BUILDING EXTERIOR AND ALL FACILITIES WITHIN THE BUILDING SHALL BE IDENTIFIED WITH THE INTERNATIONAL SYMBOL OF ACCESSIBILITY.
3. OWNER/BUYER SHALL BE RESPONSIBLE FOR ON SITE BARRIER FREE PROVISIONS: STEPS, RAMPS, PARKING SIGNS, ETC. - BUILDING APPROACH (WALK OR RAMP) WITH A MINIMUM WIDTH OF 5' AND A GRADIENT OF NOT MORE THAN 1 FOOT IN 20 FEET.
4. ALL LOCKS TO BE UNLOCKABLE FROM THE INTERIOR WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE.
5. CORROSION RESISTANT FLASHING AT TOP AND SIDES OF DOORS, WINDOWS AND AT ROOF PENETRATIONS.
6. ALL GLAZING WITHIN 24" OF EXTERIOR PASSAGE DOORS AND IN PASSAGE DOORS, OR WITHIN 18" OF FLOOR TO BE "SAFETY GLAZED" AND SO MARKED.

**FOUNDATION**

1. THE 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.
2. FOUNDATION DESIGN IS BY OTHERS. FOUNDATION REVIEW AND APPROVAL IS TO BE PERFORMED BY THE LOCAL OFFICIAL HAVING JURISDICTION.
3. CRAWL SPACE TO BE VENTILATED AT 1 SQ. FT. PER EACH 150 SQ. FT. OF CRAWL SPACE AREA TO BE VENTILATED.
4. PROVIDE POSITIVE DRAINAGE UNDER UNIT.
5. PROVIDE MINIMUM CRAWL SPACE ACCESS OF 22" x 24".
6. MINIMUM FOOTING DEPTH OF BELOW FROSTLINE AND PER LOCAL CONDITIONS.
7. PIER LOADS ARE SHOWN IN KIPS
8. 90 MPH WIND SPEED, EXPOSURE C
9. UNIT MAY BE SHIMMED AS NECESSARY WITH HARDWOOD SHIMS BETWEEN TOP OF PIER AND MODULAR UNIT FRAME
10. MINIMUM CONCRETE STRENGTH SHALL BE 3,000 PSI AT 28 DAYS

**DESIGN LOADS**

|                         |          |
|-------------------------|----------|
| FLOOR LIVE LOAD         | = 50 PSF |
| FLOOR DEAD LOAD         | = 10 PSF |
| ROOF LIVE LOAD          | = 40 PSF |
| ROOF DEAD LOAD          | = 10 PSF |
| EXTERIOR WALL DEAD LOAD | = 42 PLF |

**FOUNDATION LEGEND**

+ INDICATES BLOCKING TO BOTTOM OF MAIN I-BEAM

|  |                   |                  |
|--|-------------------|------------------|
| TITLE: BLOCKING POINTS PLAN CROSS SECTION  | DATE: 11/14/07    | JOB NO: 2007-373 |
| MODEL: 810 O/A GUARD BOOTH   | SCALE: 1/4"=1'-0" | DRAWING NO: 4    |
| TWIN MODULAR SERVICES, INC.<br>1001 LOWER LANDING RD, SUITE 607, BLACKWOOD, NJ 08012 |                   |                  |
| DRAWN BY: R.M.   |                   |                  |
| REV:   |                   |                  |