

814 GUARD BOOTH WITH 1/2 BATH

(8' x 14' ACTUAL SIZE)

SOUTH CAROLINA DESIGN CODES

2003 INTERNATIONAL BUILDING CODE W/ SC AMENDMENTS
 2003 INTERNATIONAL MECHANICAL CODE
 2003 INTERNATIONAL PLUMBING CODE W/ SC AMENDMENTS
 2003 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:..... 112 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 & PLUMBING PLANS

THIS PLAN MAY BE REVERSED OR MIRRORED

TITLE: FLOOR & ELECTRICAL PLAN	DRAWN BY: R.M.	DATE: 1/8/09	JOB NO: 2009-003
MODEL: 814 GUARD HOUSE	REV: G.D. 1/27/09	SCALE: 1/4"=1'-0"	DRAWING NO: 3

TWIN MODULAR SERVICES
 1001 LOWER LANDING ROAD, STE 607, BLACKWOOD, NJ 08012

CHASSIS

TYPE: PERIMETER
MAIN BEAM: 6" JR. I-BEAM, 4.4# PER FOOT
CROSS MEMBERS: 6" JR. I-BEAM @ 24" O.C.
PAINT: ASPHALT BASED
MISC: STEEL FORK SLOTS
OPTION: 6" C-BEAM, 8.2lbs PER FOOT

FLOOR

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

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'-9" A.F.F.
INSULATION: R-13 FIBERGLASS KRAFT-BACKED BATTS
INT. WALL COVERING: 1/4" VINYL COVERED PANEL (CLASS III)
OPTION: 1/2" VINYL COVERED GYPSUM (CLASS I)

INTERIOR WALLS

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INTERIOR DOOR

DOOR: 36" X 80" HOLLOW CORE, PRE-FINISHED, SLIDING POCKET

ROOF

TYPE: RAFTER, 2x6 #3 SPF @ 16" O.C., 2% ROOF SLOPE
CEILING: 2'x4' T-GRID (CLASS III) DROP CEILING @ 7'-9" A.F.F.
INSULATION: R-13 KRAFT FACED FIBERGLASS BATTS

ELECTRICAL

MAIN DISTRIBUTION PANEL: EXTERIOR, SURFACE MOUNTED (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 RECEPPTS PER PRINT
120 V. 15 AMP DUPLEX GFI RECEPPTS PER PRINT
120 V. 15 AMP DUPLEX GFI, WEATHERPROOF, RECEPPTS PER PRINT
OPTION: ADDITIONAL RECEPTACLES
OPTION: EXTRA EXTERIOR LIGHTING
OPTION: INTERIOR RECESSED ELECTRICAL PANEL, 100 AMP. 120/240 VOLT SINGLE PHASE, 3 WIRE, 60 HZ. WITH GROUND

PLUMBING

WATER CLOSET: ELONGATED BOWL, OPEN FRONT SEAT, H.C. HEIGHT
LAV: WALL HUNG WITH WRIST BLADE FAUCETS
WATER HEATER: INSTANT, 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
ACCESSORIES: GRAB BARS (1) 24" & (1) 36", TOILET PAPER HOLDER

H.V.A.C.

HEATING: 230/208V, 12,100 BTU COOL, 10,700 BTU HEAT, WALL MOUNT A/C AND HEAT COMBO UNIT, SHIPPED LOOSE & SITE INSTALLED BY OTHERS
AIR CONDITIONING: SEE HEATING

EXTERIOR WINDOWS & DOORS

DOORS: 36"x80" STEEL, 22"x30" WINDOW (S.G.), LEVER HARDWARE, LOCKSET & CLOSER
WINDOWS: 36" X 39" VINYL FRAME, FIXED, DIG GLAZING, THERMAL INSULATED
OPTION: 36" X 39" VINYL FRAME, SLIDING, DIG GLAZING, THERMAL INSULATED

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

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

TWIN MODULAR SERVICES

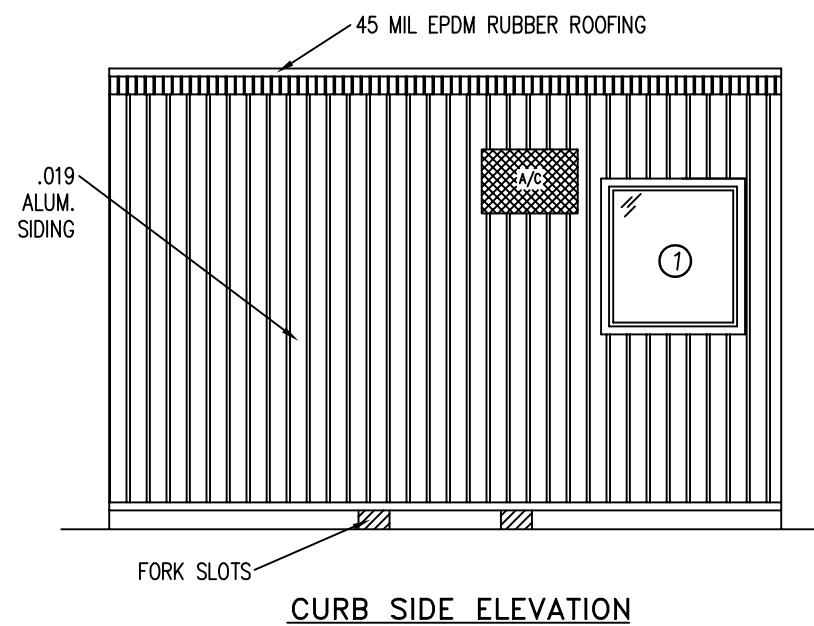
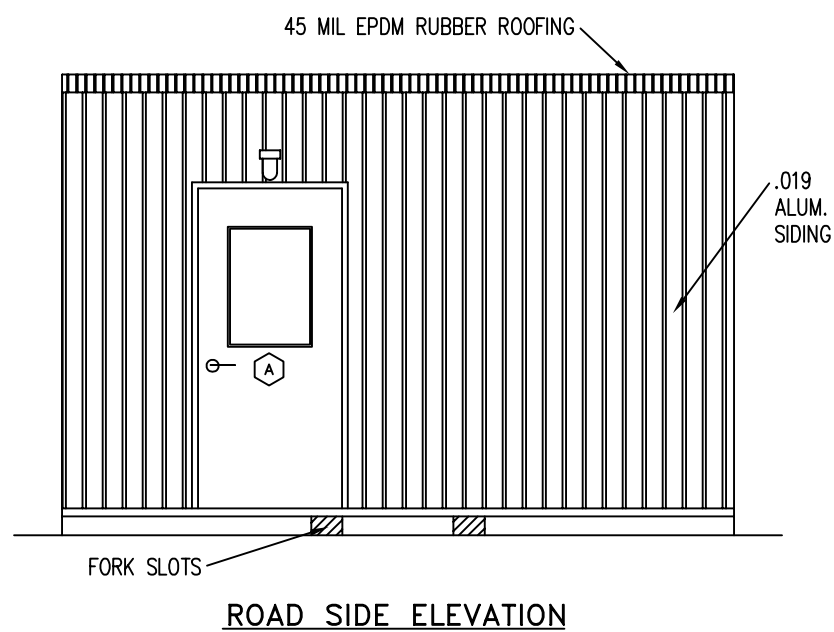
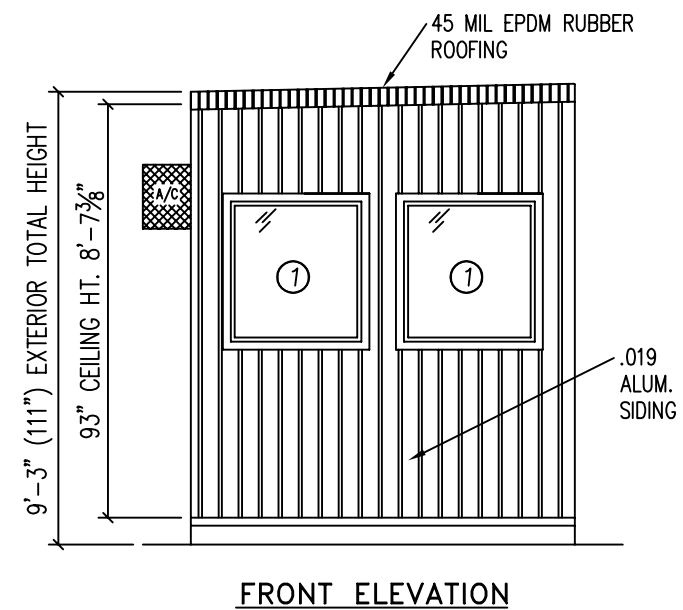
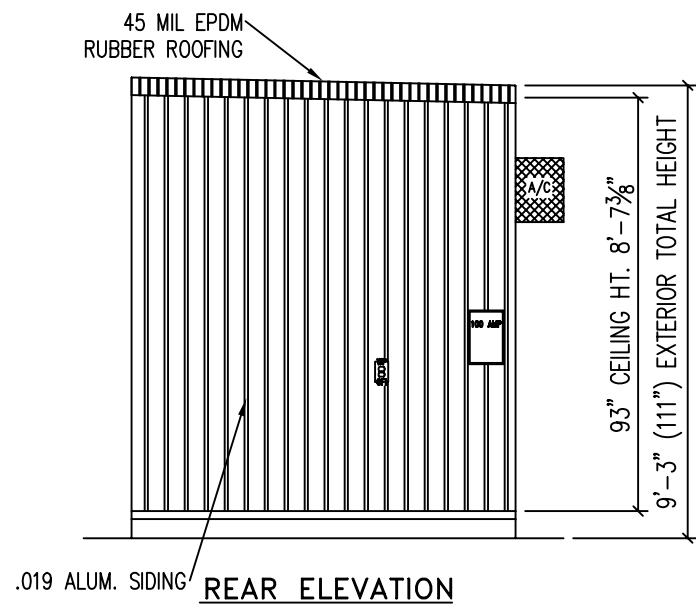
1001 LOWER LANDING ROAD, STE 607, BLACKWOOD, NJ 08012

TITLE: FLOOR & ELECTRICAL PLAN
MODEL: 8'x14' GUARD HOUSE

DRAWN BY: R.M.
REV: G.D. 1/27/09

DATE: 1/8/09
SCALE: 1/4"=1'-0"

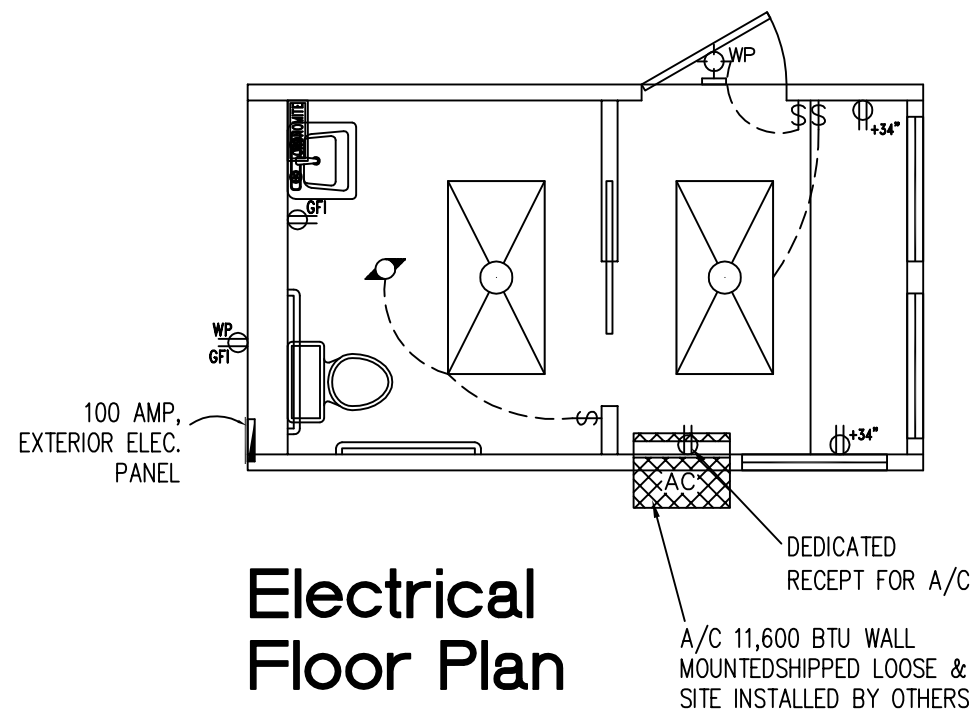
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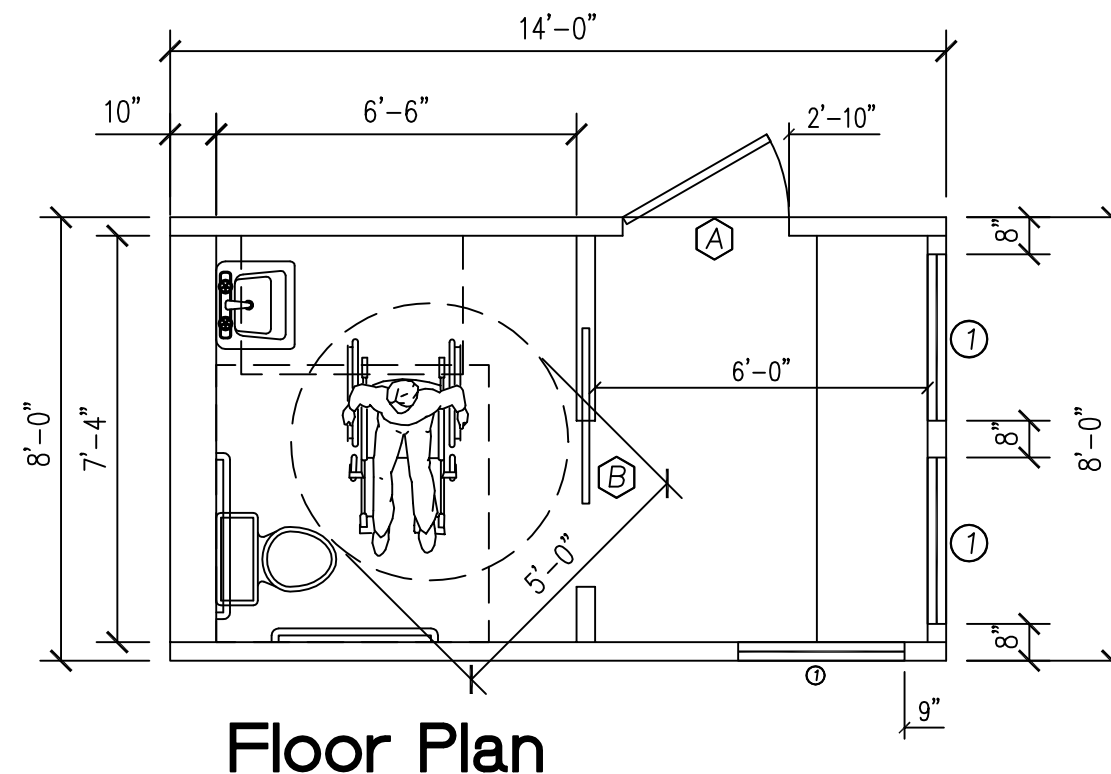
DOOR AND WINDOW SCHEDULE

- ① 36" X 39" VINYL FRAME, FIXED, DIG GLAZING
- A 36"x80" STEEL, 22"x30" WINDOW (S.G.), LEVER HARDWARE, LOCKSET & CLOSER
- B 36"x80" PREFINISHED, HOLLOW CORE SLIDING POCKET

TITLE: ELEVATIONS	DRAWN BY: R.M.	DATE: 1/8/09	JOB NO: 2009-003
MODEL: 8'x14' GUARD HOUSE	REV: G.D. 1/27/09	SCALE: 1/4"=1'-0"	DRAWING NO: 2
TWIN MODULAR SERVICES			
1001 LOWER LANDING ROAD, STE 607, BLACKWOOD, NJ 08012			



Electrical Floor Plan



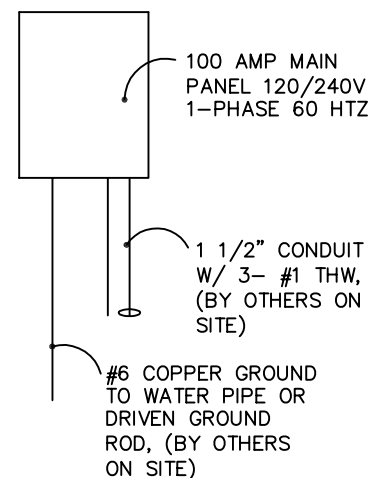
Floor Plan

DOOR AND WINDOW SCHEDULE

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- A 36"x80" STEEL, 22"x30" WINDOW (S.G.), LEVER HARDWARE, LOCKSET & CLOSER
- B 36"x80" PREFINISHED, HOLLOW CORE SLIDING POCKET

ELECTRICAL LEGEND

- 2'x4' DROP-IN FLUORESCENT LIGHT
- 100A 120/240V MAIN PANEL
- 15A 110V SINGLE POLE TOGGLE SWITCH +48"
- 15A 120V DUPLEX RECEPTACLE (RECEPTS AT +18" UNLESS NOTED)
- 15A 110V GFI DUPLEX RECEPTACLE +48"
- EXTERIOR WALL MOUNTED LIGHT, WEATHERPROOF, ON PHOTOCELL
- 120 VOLT DIRECT POINT, UNDER SINK-CRONOMITE OR BETTER
- 75 CFM RESTROOM EXHAUST FAN
- 15A 110V GFI DUPLEX RECEPTACLE, WEATHERPROOF



100 AMP ELECTRICAL RISER DIAGRAM N.T.S.

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

1. ALL RECEPTACLES TO BE GROUNDING
2. WIRING TO BE PER THE EDITION OF THE NEC LISTED ON THE COVER PAGE, TYPE MC LITE THHN/THWN-METAL CLAD CABLE
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 FLUORESCENT LIGHTS ON 15A CIRCUIT, MAXIMUM 10 RECEPTS ON 15A CIRCUIT, MAXIMUM 7 (4) TUBE FLUORESCENT LIGHTS ON 15A CIRCUIT.
13. MAXIMUM 20 (2) TUBE FLUORESCENT LIGHTS ON 20A CIRCUIT, MAXIMUM 13 RECEPTS ON 20A CIRCUIT, MAXIMUM 10 (4) TUBE FLUORESCENT LIGHTS ON 20A CIRCUIT.

TWIN MODULAR SERVICES

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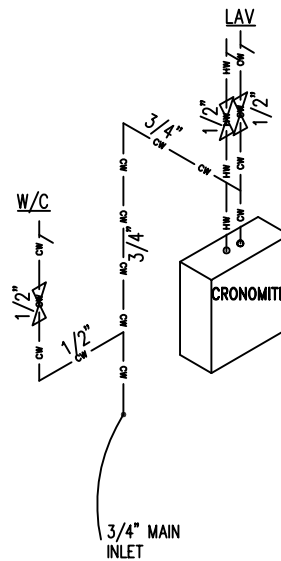
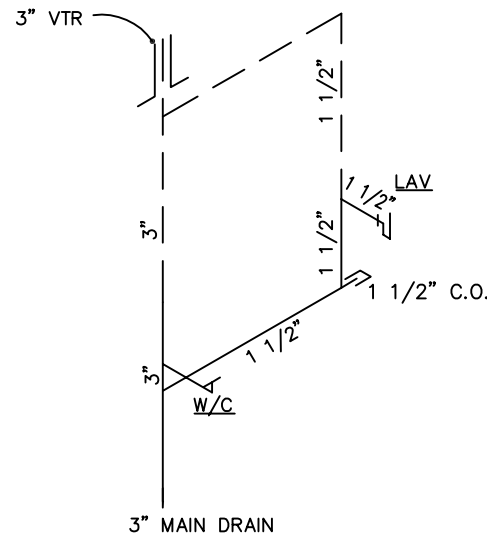
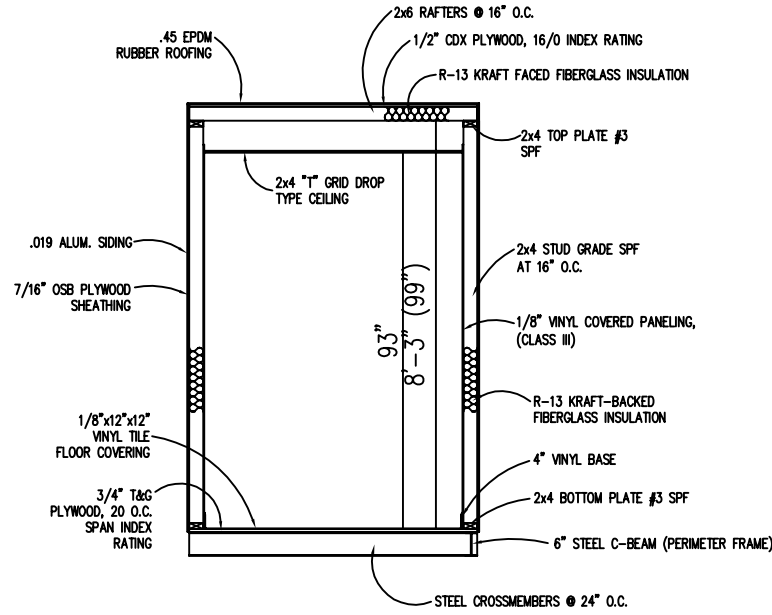
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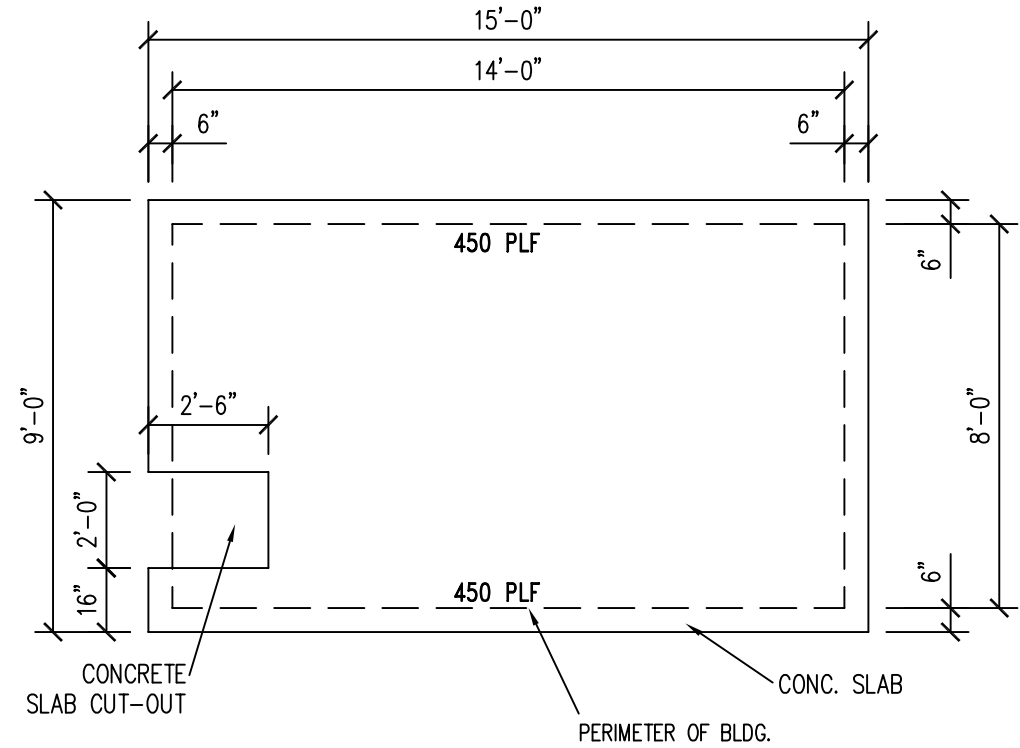
BUILDING CODE

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. BUYER / OWNER 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.



WATER SUPPLY

1. WATER SUPPLY LINES TO BE: COPPER
2. COPPER OR GALVANIZED WATER PIPING TO BE SUPPORTED AT 4' O.C., POLYBUTYLENE AT 3' O.C.
3. WATER TEMPERATURE FACTORY SET AT 120°F, CONTROLS LOCATED BEHIND COVER PANEL.
4. A SHUT OFF VALVE SHALL BE REQUIRED FOR EACH FIXTURE.
5. WATER HEATER EQUIPPED WITH DRAIN COCK.
6. DIELECTRIC UNIONS TO BE USED AT CONNECTIONS OF WATER LINES TO WATER HEATER.
7. COLD WATER INLET TO BE PROVIDED WITH A SHUT-OFF VALVE ABOVE FLOOR AT THE WATER HEATER.
8. FULL-SIZED SHUT OFF VALVE TO BE PROVIDED BETWEEN THE BUILDING AND WATER MAIN (METER).
9. 1/2" WATER SUPPLY SHALL SUPPLY ONLY ONE FIXTURE.



FOUNDATION & TIE-DOWN DESIGN BY OTHERS

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	= 30 PSF
ROOF DEAD LOAD	= 10 PSF
EXTERIOR WALL DEAD LOAD	= 42 PLF

DWV

1. DWV MATERIAL TO BE: SCHEDULE 40 PVC
2. ALL PIPES TO BE SECURED AT 4' O.C.
3. ALL CLEAN OUTS SHALL BE ACCESSIBLE. CLEAN OUTS TO BE PROVIDED AT THE BASE OF ALL WASTE AND SOIL STACKS, AND PLACED SO THAT ALL HORIZONTAL PIPING CAN BE REACHED W/ A CLEANOUT TOOL W/O PASSING THROUGH MORE THAN 45° OF TURNS.
4. 1/4" PER 1' SLOPE PROVIDED ON ALL HORIZONTAL BRANCHES.
5. VENTS SHALL BE 3"Ø, 12" ABOVE AND BELOW ROOF AND SHALL NOT BE LOCATED WITHIN 10' OF OTHER VENT OPENINGS.
6. ALL VERTICAL TO HORIZONTAL OR HORIZONTAL TO HORIZONTAL CHANGES OF DIRECTION SHALL BE THROUGH A LONG TURN TEE-WYE OR COMBINATION WYE AND 1/8 BEND.
7. ALL HORIZONTAL TO VERTICAL CHANGES OF DIRECTION SHALL BE THROUGH A SANITARY TEE, OR IF AT THE SAME LEVEL ON VERTICAL STACK, THROUGH AN APPROVED DOUBLE FIXTURE FITTING.

TWIN MODULAR SERVICES

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