

## General Construction Specifications

6-Unit, 14' x 60' (Skid) Integrated Wellsite

for

Alta-Fab Structures Ltd.

September 2013

### **General Information:**

Client's Responsibility :	It is the <i>Client's</i> sole responsibility to read, understand, and/or question any and all aspects of this specification.
Permits :	It is the <i>Client's</i> sole responsibility to apply, and pay for any and all development, and building permits required by the local jurisdiction having authority.
Warranty :	The unit (s) is <i>Warranted</i> for a period of One (1) year, from the date of manufacture against all workmanship, and materials.

### **Skid:**

Main Members :	3 - WF14 @ 34 lb. / ft. steel beams.
End Member :	7" dia. steel pipe c/w winch caps.
Cross :	5.5" dia. steel pipe @ 8' - 0" o.c.
Outriggers :	WF8 @18 lb. / ft. steel beams.
Bumper Posts :	4 - 7" dia. x 48"H steel pipe c/w gussets.
Checker Plate :	3/16" steel checker plate welded on top of skid end.
Painting :	"Black" self primer semi gloss paint.

### **Floor Structure:** (exterior to interior)

Undercoating :	1 coat latex enamel paint (Black).
Undersheathing :	1/2" Fir plywood, glued & nailed.
Floor Joists :	2 x 12 Spruce joists @ 16" o.c.
Insulation :	R - 20 friction fit Fiberglass batt and 16" d (R-20) around perimeter of each individual unit.
Sub-floor :	One layer of 5/8" select Fir T & G plywood, glued & screwed to One layer of 5/8" standard Fir T & G plywood.
Carpet :	28 oz. jute backed, commercial grade carpet adhered to the sub-floor ("Omega - Gridiron III" Berliner Dom #5011-08).
Linoleum :	2.0 mm commercial grade, polyurethane reinforced Vinyl flooring c/w heat welded rope seams ("Tarkett - Granit" Soft Fleece #770).

### **Exterior Walls:** (exterior to interior)

Metal Cladding :	26 ga. prefinished G-90 Hot Dipped Galvanized steel cladding.
Color Scheme :	Dark Red - Starter / Charcoal - Lower Body / Black - Mid Band / Stone Grey - Upper Body / Black - Upper Trim / Dark Red - Fascia.
Air Barrier :	"Typar" or equal building paper wrap around to the exterior side of each unit.
Exterior Sheathing :	5/8" Fir plywood, glued & stapled.
Screwing Ribs :	3 - horizontal rows of 5/8" Fir plywood.
Wall Studs :	2 x 6 Spruce studs @ 16" o.c.
Insulation :	R - 20 friction fit Fiberglass batt.
Backing :	3/8" Fir plywood glued and stapled.
Vapor Barrier :	6 mil Polyethylene vapor barrier.
Finish 1 :	5/8" Vinyl clad type "x" gypsum board ("Vipco - Artisan Suede").
Finish 2 :	5/8" (FRP) type "x" gypsum board ("Fiberglass Reinforced Plastic - White").

### **Interior Partitions:**

Finish 1 :	1/2" / 5/8" Vinyl clad type "x" gypsum board ("Vipco - Artisan Suede").
Finish 2 :	1/2" (FRP) type "x" gypsum board ("Fiber Reinforced Plastic").
Partition Studs :	2 x 4 Spruce studs @ 16" o.c.
Finish :	Matched as above.

### **Roof Structure:** (exterior to interior)

Ceiling Height :	8 ' - 0 1/4" from top of the floor to underside of the ceiling.
Drainage :	Continuous aluminum drip channel.
Roofing :	.045" reinforced EPDM "White" rubber roofing system, one piece 100% adhered to roof deck.
Roof Sleeper Deck :	5/8" select Fir T & G plywood, glued & screwed to roof joists.
Sleeper Joists :	2 x 12 spruce @ 24" o.c. tapered from center of the complex down to each unit end.
Roof Deck :	3/8" Fir plywood glued and stapled.
Roof Joists :	2 x 8 Spruce joists @ 16" o.c.
Insulation :	R - 24 friction fit Fiberglass batt.
Vapor Barrier :	6 mil Polyethylene vapor barrier.
Backing :	3/8" Fir plywood stapled.
Ceiling Finish :	5/8" Vinyl clad type "x" gypsum board ("Vipco - Adobe White").

### **Doors & Windows:** (sizes & locations as shown on the floor plan)

Doors (exterior) :	"Alta - Fab Structures Ltd." premium metal clad, insulated, 20" x 20" lite, deadbolt, panic bar hardware and door closer.
Doors (interior) :	"Alta - Fab Structures Ltd." metal clad transport door c/w transport door bar.
Windows :	"WSI" painted masonite 20 min. rated solid core door c/w steel jamb and "Schlage" door hardware.
Blinds :	"North Star" 64"x 40" residential triple glazed picture /casement style maintenance free windows.
Shutters :	"North Star" 48"x 40" residential triple glazed slider style maintenance free windows.

### **Mechanical Section:**

Heating :	"Intertherm" [E2EB017HB] 17kw, 3 phase electric furnace c/w in floor ducts & registers. - P - tac units (heat/cool) c/w wall mounted thermostat. - 1,000 watt wall mounted heater c/w inline thermostat.. - 500 watt electric baseboard heater c/w built-in thermostat.
Air Conditioning :	"Intertherm" 2.5 ton central A/C system, completely hooked-up.
Plumbing :	Pex pipe c/w copper fittings.

**Mechanical Section (cont'd):**

Fixtures	:	9 - "Gerber" low flush water closet. 9 - "Gerber" lavatory sink c/w 4" deckset. 1 - Eyewash station. 3 - "Hytec" 36" x 36" fiberglass shower stall c/w shower curtain. 5 - "Hytec" 48" x 36" fiberglass shower stall c/w shower curtain. 1 - "Kindred" [LBSDBR6810-1] single cell sink with side drain board c/w 8" double deckset. 1 - 22" x 22" plastic laundry tub c/w hot & cold taps & "Y" hose. 2 - "A.O. Smith" [DVE-120] 119 gal. 24KW 480V 3Phase electric hot water heater. 1 - "Grundfo's" [UPS 15-35 SPC] re-circulating pump. 1 - "Flex-Lite" [FL 7] 22 gal. expansion tank. 4 - "Saniflo" [Snicubic 2] two motor 1HP heavy duty grinder pump. 2 - "Saniflo" [Snicubic 1] one motor 1HP heavy duty grinder pump. 2 - "Beam" built - in vacuum systems c/w 50' vacuum hose and accessories. 2 - "Maytag" [YMET3800TW] 27"W electric washer / dryer (240V). 1 - Air compressor. 1 - Wet / dry shop vacuum c/w accessories.
Water Supply	:	Copper solder fittings & pex pipe, concealed wherever possible.
DWV	:	ABS plastic fittings & pipe, concealed wherever possible.

**Electrical Section:**

Transformer	:	1 - 150 KVA, 480-120/208 Volt, 3 Phase transformer.
MDP (Main)	:	1 - 600 Amp, 208Y/120 Volt, 3 Phase, 4 Wire Non-Combination Main Distribution Panel c/w 400 Amp (225 Amp fused) 600 Volt, 3 Phase Disconnect.
SDP (subs)	:	6 - 24/48 cct, 120/208 volt, 3 phase, No-Comb. Sub Distribution Panel c/w branch circuit breakers as required.
Unit Feed	:	All units to be fed via SOOW cabtire with "Hubbell" male cord ends, sized as required. (Note: Water heaters to be fed directly from the generator).
Int. Lighting	:	2 x 32 watt surface mounted fluorescent light fixture, 13 watt "strip" T8 lamp light fixture, 2 x 13 watt (CFL) ceiling mounted light fixture, 13 watt (CFL) "wall sconce" light fixture, 13 watt (CFL) "VR3" light fixture, 13 watt (CFL) "bunk light", 40 watt recessed pot light.
Ext. Lighting	:	26 watt LED "RC Lighting" exterior light fixture c/w photocell.
Flood Lighting	:	28 watt LED "RC Lighting" flood light c/w photocell.
Receptacles	:	Duplex electrical receptacles.
Switches	:	Switching devices as required by design and / or code.
Data System	:	Data outlets c/w 6 x CAT6 cable run back to the Mechanical room.
Telephone System	:	Complete telephone system installed.
Fire Alarm System	:	Rated for Alberta and BC code requirements.

**Furnishings/Accessories:**

General Note	:	All cabinets, furnishings and appliances shown on drawing are included.
Cabinets	:	All cabinets are manufactured in-house by AFS to maintain quality fit and finishing.
Safety Platform	:	38"W x 48"L welded steel safety platform c/w angled ladder and handrail.
TTRS	:	Custom Travel Restraint System.
Bumper Pads	:	2" wide welded steel "T"- bumper pads.
Appliances/Furnishings	:	12 - 4.3 cu. ft. under counter refrigerator. 2 - 18.0 cu. ft. refrigerator. 1 - 18.0 cu. ft. "ALL" freezer. 1 - 30"W residential style electric stove c/w oven. 1 - Rangehood c/w light and fan. 2 - 1.0 cu. ft. microwave oven 1 - Built - in dishwasher. 3 - Coffee maker. 1 - Toaster oven. 1 - Manual can opener. 4 - Floor standing water cooler. 1 - LPG fired barbecue c/w brush and chain. 1 - 55" LCD television. 5 - 40" LCD television. 7 - 32" LCD television. 11 - Blu ray DVD player. 3 - Ipod docking station c/w speakers & CD player. 10 - Bedside alarm clock. 5 - 54"W x 80"L "Pillow-top" mattress. 5 - 48"W x 80"L "Pillow-top" mattress. 1 - Leather covered recliner type sofa. 4 - Leather covered recliner type swivel chair. 6 - Leather covered recliner type chair. 6 - Leather covered high back swivel chair. 12 - Vinyl covered sled base chair. Lot - Bulletin board. Lot - Whiteboard c/w pen & velcro fastener (no tray). 4 - 16"W x 22"H recessed medicine cabinet c/w mirrored door. 9 - 18"W x 24"H mirror c/w California clips. 21 - Garbage can. 9 - Toilet paper holder (single). 13 - 24"L chrome towel bar. 1 - Paper towel holder. 5 - Single towel rack. 2 - "Quartet" 18"W x 24"H grey board access panel. 6 - 5 lb. 'ABC' fire extinguisher. 9 - 8"W x 8"D roof mounted radio antenna holder. 1 - 4 ft. ladder. Lot - Steel boot rack c/w slide - out steel boot pan. Lot - Steel coat hooks. Lot - Recessed vinyl floor mat. Lot - Sets of reinforced, heavy duty insulated "vinyl doorway" interconnects c/w velcro fastening. Lot - Linoleum / carpeted steel "doorway threshold" interconnects c/w in place blocks.

*\*Note: Unit construction specifications are subject to change without notice with product improvements.  
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