



***Specification For A 14' X 54' Portable Fish
Plant***

Type of Study: Processing/manufacturing

Date of Report: 1990

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Catalogue Number: 3-20-5

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1.0 GENERAL INFORMATION

1.1 PRECEDENCE OF SPECIFICATION

The following specifications will take precedence over the drawings.

1.2 CODE COMPLIANCE

The **proposed building will comply** with the applicable requirements of the following **regulations and/or-codes:** ""

- Structural - National Building Code - Section 4.1
- Plumbing - Alberta Plumbing Regulations (410/87).
- Heating - Alberta Gas Protection Regulations (C. G.A. B139) Oil .
- Electrical - Canadian Electrical Code - Part 1.
- Canadian Standards Association - Electrical Certification.

Any additions, deletions or revisions of any kind to the proposed design required by: (1) local building codes, (2) authorities having jurisdiction, (3) individual interpretation of building codes, or (4) proximity of existing buildings will be client's responsibility and will be deemed extras to the submitted proposal.

under D.F.O / unit based / signed.

1.3 UNION LABELS

All units produced in **ATCO** factories are union labeled.

1.4 ALTERNATE EQUIPMENT

ATCO reserves the right to make substitutions of materials and equipment with equivalent materials and equipment, if delivery so dictates.

1.5 COLOUR MATCHING

ATCO shall not be held responsible for any discrepancies of colour or **pattern match due to supplier's manufacturing tolerances.**

1.6 APPROVED EQUIPMENT

All plumbing fixtures and fittings, mechanical equipment, electrical devices, fixtures and equipment are approved for the use intended by C.S. A.

2.0 STRUCTURAL SPECIFICATION

2.1 DES16N CRITERIA

Ceiling height - 9' - 0 1/4".

2.3 FRANE - SKID

Longitudinal Members - 16" x 36.0 lb./ft steel wide flange - 2 member.

Crossmembers - 4" structural pipe, Schedule 40, 8" x 17.0 steel wide flange under water tank.

Tow Bar - 4" and 5" Schedule 80 pipe - removable (fits either end).

Bumpers - 4" Schedule 80 pipe, at fuel tank end.

Skid End - complete with 1/8" checkerplate at fuel tank end.

2.4 FLOORS

(From the Exterior to the Interior)

Undersheathing - 5/16" exterior sheathing, glued and stapled, complete with Bitumen undercoating.

Joists & Plates - 2" x 10" spruce, 16" o.c.

Insulation - 9 1/2" foamed-in-place insulation.

Sub-Floor - 5/8" select tongue and groove plywood sheathing, glued, screwed and stapled.

Finish - pure vinyl welded seam flooring, 1.5mm Polyflor XL #911, washroom, entry and mechanical room.

- 1/8" aluminum checkerplate with welded seams, 45° corner radius and 8" up wall.

*- floor slope not mentioned
this was put in place - 1/8" thick Per Linear ft.
2 members of 19. overall.*

2.5 WALLS

(From the Exterior to the Interior)

Finish - white, prefinished, 30 gauge, steel siding, deluxe Mesa pattern complete with sapphire blue fascia, stapled and screwed (3 rows of screws).

Sheathing - 1/2" exterior sheathing, glued and stapled.

Studs & Plates - 2" x 6" spruce, 16" o.c.

Insulation - 5 1/2" foamed-in-place insulation.

Sheathing - 1/2" sheathing, stapled.

Finish - baked on, white, prefinished, 30 gauge, steel siding, deluxe Mesa pattern, stapled and screwed.

2.6 PARTITIONS

Studs & Plates - 2" X 4" spruce, 16" o.c.
- 2" x 6" spruce, 16" o.c., cooler/freezer and ice room.

Insulation - 5 1/2" foamed-in-place insulation - cooler/freezer and at ice room.

Sheathing - 1/2" sheathing, stapled.

Finish - baked on, white, prefinished, 30 gauge, steel siding, deluxe Mesa pattern, stapled and screwed.

2.7 ROOFS

(From the Exterior to the Interior)

Finish - one piece, 30 gauge, galvalume roof, screwed 2" o.c. around perimeter and glued.

Sheathing - 3/8" exterior sheathing, stapled.

Slope - minimum 1" per 8 ft. lateral.

Joists & Plates - 2" x 10" spruce, 16" o.c.

Insulation - foamed-in-place insulation, cavity filled.

Sheathing - 1/2" sheathing, stapled.

Finish - white, prefinished, 30 gauge steel siding, deluxe Mesa pattern, stapled and screwed.

2.8 DOORS

Exterior - prefinished, with steel face and insulated core complete with metal clad wooden frame.

Sizes shall be shown on the drawings.

Hardware - entrance lock, Weiser, pass-thru doors.

- panic hardware, exit only type, Von Duprin 44E0, exit door.
- panic hardware, entrance/exit type, Von Duprin 88TP, entrance door.
- door closers, Taymor, entry and exit doors.
- weatherstripping.

Interior - prefinished, embossed aluminum covered solid core, complete with aluminum frame.

- preprinted steel Class "B" fire door complete with steel frame.
- 4" insulated door complete with wood frame, cooler/freezer.
- doors to open area to have 4" raised sill.

Hardware - entrance locks, Weiser - mechanical room and vestibule.

- passage latch set, Weiser.
- privacy lock, Weiser, washroom.
- refrigerator hardware, Kason K58.
- door closer, Taymor, mechanical room.
- door stops.

2.9 WINDOWS

metal clad wooden frame, sealed fixed unit, complete with Lexan exterior pane and clip-on plexiglass interior over panel.

Sizes shall be shown on the drawings.

2.10 FURNISHINGS

4 only - lineal feet, hat shelf with hooks below.

3.0 MECHANICAL SPECIFICATION

3.1 DES16N CRITERIA

Temperature Differential (Heating) - 70° C. (126° F.)

Maximum Water Supply Pressure - 80 p.s.i.

3.2 HEATING

Furnace - 1 only, oil fired, upflow, 74,000 BTUH output, complete with Class 'A' chimney and return air filter.
- Duomatic Olsen HTL100A or equal.

Ducts - overhead enclosed metal supply ductwork, complete with adjustable registers.

Controls - wall mounted thermostat, complete with plastic cover.

3.4 VENTILATING

Make-Up Air - the furnace shall automatically draw between 5 and 15 percent outside air.

Circulation - furnace blower may operate continuously.

Exhaust - 1 only, wall mounted, 60 cfm, fan complete with duct and wall cap in washroom.
- Broan #660 or equal.

3.5 PLUMBING

Supply Lines - all supply lines to be concealed, except in utility room.
type "M" copper pipe.
wrought copper and cast bronze fittings.
flux and solder as per manufacturer's recommendations.
all water is distributed from water storage tank.

Hot Water - available at all plumbing fixtures with the exception of the water closet.

**Drainage, Waste
& Venting**

- all DWV lines to be concealed, except in utility room.
- A.B.S. plastic pipe and fittings.
- all units stub-out at underside of floor; /Richard

*The Contractor can be asked up to clean/considering when you take well
be or separate tanks / A SUS floor is not recommended, materials, heat traps
and skirting should be done on site and if fumes move things cut off
from floor ...*

Fixtures:

- 1 only 'water closet, complete with open front seat and toilet paper holder. Low water usage. t4ansfield.
- 1 only wall hung lavatory basin 17" x 20" complete with 4" c.c. faucets, 14" x 16" mirror and legs. American Standard - Acadian AF0335. Waltec 21 F141.
- 1 only stainless steel, double compartment sink, complete with 8" c.c. faucets and 16" swing spout.
- 1 only water heater (70 U.S. gallons, oil fired) complete with T & P relief valve and drain. Aero 1000-70 or equal.
- 2 only water storage tank, (500 U.S. gallons), complete with exterior fill and vent pipes. One for raw water, and one for chlorinated water.
- 2 only pressure pump. Starite HLB5W4C for transfer water from raw water to chlorinated water tank. Myer HJ33S-HT for water distribution.
- 1 only chl orinator, complete with tank.
- 1 only 250 U.S. gallon fuel oil tank, complete with vent and fill.
- 4 only 4" floor drains. Enpoco
- 1 only ice maker, Ross Temp RF-2051-UF, mounted inside in ice room (1980 lb. production in 24 hours).
- 1 only set, freezer and holding freezer. Condensers - Copeland H3DL-0600-TFC-301. Evaporator - Blanchard Ness LS-0980E. Evaporator - Blanchard Ness LS-1130E.

4.0 ELECTRICAL SPECIFICATION

4.1 DESIGN CRITERIA

Power - 120/208 volt AC, three phase, four wire, 60 Hertz.

Lighting Levels - 50 foot candles (average).

Design Load - 100% lighting plus connected load.

4.2 POWER REQUIREMENTS

Building - 10 kw (estimated) including HVAC.

4.3 SERVICE ENTRANCE

Location - overhead at side or rear of building, ^{1 &# is Palo} service head approximately 3 feet above the ~~roof~~. **Connection** to service head by others.

Components - service entrance head, rigid conduit mast, conductors and provision for metering.

4.4 DISTRIBUTION

Loadcenter - main distribution panel shall be a 100 amp, 3 phase panel complete with a 100 amp main breaker, with branch circuit breakers as required.

Wiring - concealed, non-metallic, sheathed copper cable complete with #14 A.W.G. conductors.

Devices - metallic boxes.
- toggle switches.
- U-ground duplex receptacles.
weatherproof covers in butcher shop and ice room.
receptacles mounted on ceiling or wall above hose-down area in butcher shop.

4.5 LIGHTING

Fluorescent - 2 Lamp, 48" long complete with vapour proof diffusers with gasket in butcher shop.

Incandescent - exterior lights complete with 100 watt lamps. vapourproof incandescent fixtures, complete with guards and gasket in cooler, freezer, and ice room.