



Borghesi Building & Engineering Company, Inc.

General Contractors • 766 Riverside Avenue • Torrington, Connecticut 06790 • Phone (203) 482-7613

OUTLINE SPECIFICATIONS

Fred J. Potter Company
December 1, 1980
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DIVISION No. 1: GENERAL CONDITIONS:

1.01 The Contractor shall perform all of the work specified herein in accordance with sound, generally accepted construction practices. All labor will be performed by workmen regularly employed in their respective trades. It is the Contractor's intent to comply with his interpretation of all O.S.H.A. regulations in the performance of this Contract.

The Contractor will provide all supervision, architectural and engineering work as specified herein. All drawings shall be in accordance with the Connecticut State Building Code, and be certified as such by a Connecticut Registered Professional Engineer.

The Contractor shall obtain and pay the fees for the building permit. The Contractor will provide, at his own expense, Workmen's Compensation, Public Liability and Property Damage Insurance. Copies of the insurance certificates will be submitted to the Owner prior to the start of construction. The Owner shall be responsible for obtaining Builder's Risk Insurance, with the General Contractor named as co-insured.

The Contractor will provide a job trailer with telephone and sanitary facilities. Contractor will leave the job in a neat and workmanlike condition. Debris will be removed and all floors will be swept clean. (Washing of windows and floors, and floor waxing, will be assumed to be completed by the Owner).

DIVISION No. 2: SITE AND EARTH WORK:

2.01 The Contractor will assumed that the site will be cleared, stumped, stripped of topsoil and organic matter and brought to within four inches (4") (plus or minus 2") of proposed subgrades by the town.

The Contractor further assumed that the areas to be filled, if any, at the building will be filled by the town with suitable material and compacted to 95% density.



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DIVISION No. 2: SITE AND EARTH WORK (CONTINUED):

2.02 The Contractor shall layout and stake the building from property pins supplied and installed by the Owner.

2.03 The Contractor shall excavate and backfill for footings and foundation walls. Bottom of footing elevation shall be forty-eight inches (48") below finished floor, except at the loading dock where bottom of footing elevation will be forty-two inches (42") below finished exterior elevation.

It is assumed that the excavated material is suitable for use as backfill. No off-site borrow has been included. Frozen earth excavation, rock excavation over one cubic yard and excess water removal is not anticipated or included and will be an extra.

2.04 The Contractor will assume that the town shall excavate and backfill for, and install, utility lines, ie, sewer, water, sprinkler and electric lines from the street to the point within five (5) ft. of the building. Tap-fees are assumed to be paid by the town.

2.05 The Contractor will furnish and install storm drainage lines, with catch basins, and necessary fittings as shown on the Site Plan. Roof water shall be emptied into the storm system through downspouts and underground pipe.

The Contractor shall assume that the invert at the nearest town installed catch basin at the cul de sac shall be 677.0.

2.06 Areas and drives subject to truck traffic will be paved with a one (1) inch thick wearing course over a 1-1/2 inch thick base course of compacted Bituminous asphalt. Areas and drives subject to automobile traffic will be paved with a two (2) inch layer of compacted bituminous asphalt.

All asphalt will be placed over a six (6) inch layer of compacted bank-run gravel and two (2) inch layer of compacted process gravel.

Due to the uncertainty of asphalt costs in the summer of 1981, the Contractor has included asphalt material cost including sales tax at \$30.00 per ton. Asphalt is currently selling for approximately \$25.00 per ton, including tax.

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From concept, to drawings, to completion

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Industrial

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DIVISION No. 2: SITE AND EARTHWORK (CONTINUED):

- 2.07 Bituminous asphalt curbing will be placed at all paved areas.
- 2.08 Areas indicated as lawn will be covered with four (4) inches of topsoil, fine graded, seeded and fertilized. It is assumed that sufficient topsoil exists on the site for this work. Any additional topsoil purchased will be an extra.
- 2.09 An allowance of \$5,000.00 has been included for the purchasing and planting of ornamental shrubs and trees.

DIVISION No. 3: CONCRETE:

- 3.01 All continuous foundation walls shall be eight (8) inches thick, twelve (12) inches thick at full height exterior masonry walls, reinforced with two (2) No. 4 rebars, top and bottom. Concrete piers shall be designed and reinforced for the structural requirements. Soil bearing capacity is assumed to be 4,000 P.S.F. Additional excavation and/or concrete, if any, required to reach adequate soil bearing will be an extra.
- 3.02 Continuous footings shall be two (2) foot wide by one (1) foot thick. Column footings shall be sized according to structural requirements. Footing and foundation wall concrete shall have a design compressive strength of 3,000 P.S.I. at twenty-eight (28) days.
- 3.03 Concrete floor slab at the Press Area, approximately 1080 square ft., shall be six (6) inches thick, and five (5) inches thick at the balance of the building, reinforced with a layer of 6x6 10/10 welded wire mesh. Slabs shall be finished by screeding and machine troweling to a hard, smooth finish. All slabs will be placed over a layer of bank-run gravel.
- 3.04 Saw-cut contraction joints will be placed at all column lines.
- 3.05 When the floor slabs are sufficiently cured, the Contractor shall apply "Cure 'N Seal" by Sonneborn, Inc., in accordance with the manufacturer's specifications. Office slabs will not be treated to facilitate laying of vinyl asbestos tile and carpeting.



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DIVISION No. 3: CONCRETE (CONTINUED):

- 3.06 Miscellaneous concrete work will include forming and pouring a four (4) inch thick concrete sidewalk where indicated on the Site Plan, and airconditioning and transformer pads. A set of precast steps with handrailings will be constructed at the loading dock.
- 3.07 All slab concrete shall have a design compressive strength of 3,000 P.S.I. at twenty-eight (28) days.

DIVISION No. 4: MASONRY:

- 4.01 The Contractor shall perform the following work in accordance with specifications of the American Masonry Institute.
- 4.02 Exterior walls shown as masonry will be constructed as follows: eight (8) inch thick split face concrete block will be used at the two (2) ft. high walls, twelve (12) inch thick split face block will be used at the full height wall on the right front of the building, and a four (4) inch thick veneer of split face block will be constructed at the exterior of the main office area. Block and mortar will be color tinted. The cores of the eight and twelve inch units will be insulated with styrofoam core inserts.
- 4.03 Interior block partitions at the ~~E.D.V. room~~ ^{SALT ROOM} as indicated on the room finish schedule shall be constructed with ten (10) inch thick standard concrete block. A two (2) ft. by one (1) ft. wide concrete footing will be constructed below these walls. A four (4) ft. high partition of six (6) inch block will also be constructed as shown on the plan. ^{MD} ^{BSB}
- 4.04 All block will be laid in running bond.
- 4.05 Galvanized "Dur-o-wall" reinforcing shall be placed at every third (3rd) masonry course.
- 4.06 The base course at all exterior block, except the four (4) inch veneer, will be constructed with two (2) units, that is, an inner and outer block separated by flashing. ^{MS}



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DIVISION No. 5: MISCELLANEOUS IRON:

- 5.01 The Contractor will furnish and install anchor bolts for structural steel, anchors for toilet room accessories, steel lintels at masonry openings, and all other miscellaneous iron for complete project.

Hand railings will be installed to meet the handicapped persons provisions of the building code.

DIVISION No. 6: CARPENTRY, DOORS AND WINDOWS:

- 6.01 Interior partitions, unless otherwise indicated, will be constructed with 3-5/8 inch steel studs, covered with one (1) layer of one-half inch gypsum board each side. Partition heights shall be as indicated in the Room Finish Schedule. The partition separating the office areas and E.D.M. room from the main plant will be full height.
- 6.02 All gypsum walls, except those to receive paneling, shall be taped, spackled and sanded, ready for painting or vinyl wall covering.
- 6.03 Exterior personnel doors (excluding main entrance) will be constructed with twenty (20) gauge steel, one and three-fourths inches thick, factory prime and field painted, stiffened and sound deadened, complete with thresholds and closers. Hardware shall be brushed chrome, U.S. 260 6-26 finish. Frames will be sixteen (16) gauge factory primed and field painted.
- 6.04 The aluminum entrance will be constructed with bronze anodized extruded aluminum tubing and glazed with bronze tinted tempered safety glass. A pair of interior doors at the entry area will be constructed of the same material.

Exterior windows shown on the plan will be constructed with bronze anodized extruded aluminum tubing and glazed with bronze tinted, insulated glass, one (1) inch thick. Panels above and below glass area will be insulated, faced with material similar to Weyerhaeuser, Panel - 15.



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DIVISION No. 6: CARPENTRY, DOORS AND WINDOWS (CONTINUED):

All glazing work shall be in conformance with the provisions of the Safety Standard for Architectural Glazing Materials (16 CFR 1201) effective July 6, 1977.

- 6.05 Interior doors at the office area will be solid core wood, 1-3/4 inch thick with stain grade veneer. All other interior doors will be hollow metal type. An allowance of \$1,100.00 has been included for furnishing interior hardware. ← 1125
- 6.06 Overhead doors shall be wood type, industrial quality, in the size and number indicated on the plans. Doors will be factory prime painted.

DIVISION No. 7: THERMAL AND MOISTURE PROTECTION:

- 7.01 The Contractor will furnish and install a two (2) inch thick layer of polystyrene board insulation at the foundation in accordance with the State Building Code.
- 7.02 The exterior masonry walls will be insulated as previously described.

The plant walls constructed with steel siding will be insulated with a four (4) inch thick layer of fiberglass blanket insulation with a laminated six (6) mil vinyl vapor barrier. Wall insulation shall have a calculated "U" value of 0.06.

The roof will be insulated with an eight (8) inch thick layer of fiberglass blanket insulation with laminated six (6) mil vinyl vapor barrier. This insulation, together with the styrofoam spacer blocks installed at the purlins to eliminate thermal short circuits caused by insulation compression, will produce a calculated "U" value of 0.038.



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DIVISION No. 7: THERMAL AND MOISTURE PROTECTION (CONTINUED):

- 7.03 The joints between the masonry and window walls and door frames will be sealed with "Thiokol", "Tremco", or equal sealant, to prevent air infiltration.
- 7.04 All concrete floor slabs will be placed over a layer of six (6) mil polyethylene vapor barrier.

DIVISION No. 8: ROOM FINISHES:

- 8.01 Room finishes shall be as specified on the "Room Finish Schedule" attached herewith.
- 8.02 Materials shown on the Finish Schedule shall be as follows:
- A. Vinyl asbestos tile shall be commercial quality, as manufactured by "GAF", "Armstrong Cork Company", or equal.
- Rubber cove base will be installed at all interior gypsum walls.
- B. Acoustical ceiling will be suspended type with a one inch (1") exposed, white painted metal grid system.
- Ceiling tiles will be two foot by four foot mineral fibre non-combustible lay-in panels as manufactured by "Celotex Corporation", "Armstrong Cork Company", or equal. Ceiling tile at the E.D.M. Room will be plastic coated for ease of cleaning.
- C. Carpeting shall be commercial quality, anti-static type. An allowance of \$2,515.00, which is approximately \$15.00 per square yard, has been included for furnishing and installing carpeting.
- D. Marlite paneling with trim strips will be installed at the plant lavatories.
- E. An allowance of \$400.00 has been included for furnishing ~~and installing~~ vinyl wall covering where indicated on the room finish schedule.



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DIVISION No. 8: ROOM FINISHES (CONTINUED):

F. An allowance of \$848.00, which is approximately \$16.00 per sheet, has been included for purchasing paneling and trim strips.

8.03 The following items will be field painted with "Pratt & Lambert" or "Sherwin-Williams" paint in accordance with the manufacturers instructions:

A. All steel passdoors shall be touched-up and receive field coat of oil base paint over factory primer.

B. Wood overhead doors shall receive a coat of oil base paint over factory primer.

C. Interior steel doors shall be factory prime painted and field painted one (1) coat.

D. Interior wood doors shall be stained and two (2) coats of polyurethane will be applied over the stain.

E. All gypsum partitions will be taped, sanded and painted with one (1) primer and one (1) finish coat.

MM *RS* F. Miscellaneous painting will include the hand railings, ~~and~~ and door frames.

G. All exterior masonry shall be sprayed with one (1) coat of silicone waterproofing.

H. Concrete at the settling pit will receive two (2) coats of "Koppers" 300 M two component black epoxy.

I. The walls of the salt heat room will be painted with epoxy paint. + Exposed Structural Steel to be epoxy painted

8.04 Color samples of finishes will be submitted for the Owner's selection.

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ROOM FINISH SCHEDULE

<u>ROOM</u>	<u>NORTH</u>	<u>SOUTH</u>	<u>EAST</u>	<u>WEST</u>	<u>FLOOR</u>	<u>CEILING</u>	<u>HEIGHT</u>
Offices	Paneling	Paneling	Paneling	Paneling	Carpet	Acoust'11 tile	9 ft.
General Office	Vinyl wall covering & paint	Vinyl wall covering	Vinyl wall covering	Paint & vinyl wall covering	Carpet	Acoust'11 tile	9 ft.
Entry	Paneling	Paneling	Paneling	Paneling	Seamless vinyl	Acoust'11 tile	9 ft.
Office Closet	Paint	Paint	Paint	Paint	Vinyl asbestos tile	Acoust'11 tile	8 ft.
E.D.M. Room	Paint	Paint	Paint	8 ft. steel liner panel	Concrete	Acoust'11 tile	9 ft.
Salt-Heat Room	Paint	Paint	Paint	Paint	Concrete	Exposed	14 ft.
Office Laboratories	Paint	Paint	Paint	Paint	V.A. Tile	Acoust'11 tile	9 ft.
Plant Women's Room	Marlite	Marlite	Marlite	Marlite	V.A. Tile	Acoust'11 tile	8 ft.
Plant Men's Room	Marlite	Marlite	Marlite	Marlite	V.A. Tile	Acoust'11 tile	8 ft.
Lunch & Locker Room	Paint	Paint	Paint	Paint	V.A. Tile	Acoust'11 tile	9 ft.
Plant	8 ft. steel liner panel	8 ft. steel liner panel	8 ft. steel liner panel	8 ft. steel liner panel	Concrete	Exposed	14 ft.
Compressor Room	Steel sheets	Insulation	Insulation	Insulation	Exposed Concrete	Exposed Concrete	8 ft.





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DIVISION No. 9: PLUMBING:

- 9.01 Work under this division includes furnishing and installing the following in accordance with the National Plumbing Code and all State and local codes:
- A. One (1) American Standard, Model 0361.071, Scotiam lavatories (for handicapped persons) with Delta, Model 531 faucets.
 - B. Six (6) American Standard, Model 2122.448, Cadet toilets, with Church brand seat.
 - C. Two (2) American Standard, Model 2108.062, elongated water saver Cadet toilets (for handicapped persons), with Church brand seats.
 - D. One (1) American Standard, Model 6570.014, Jethrooke urinal (for handicapped persons) with Sloan flush valve.
 - E. One (1) American Standard, Model 136, 36 inch fiberglass shower with Delta Model No. 1742, pressure balancing shower fixture with scald guard and stop button.
 - F. Four (4) American Standard, Regalyn lavatories with Delta faucets.
 - G.. One (1) 24 inch by 21 inch stainless steel sink.
 - H. One (1) semi-circular 54 inch Bradley wash fountain with dry soap dispenser, for handicapped persons.
 - I. One (1) American Standard, 36 inch by 36 inch fiberglass shower.
 - J. Three (3) non-freeze exterior sillcocks.
 - K. Five (5) floor drains, one (1) at each men's and women's lavatory, except at lavatory with shower, and one (1) at the Salt Room.
 - L. One (1) 40 gallon State energy efficient electric water heater. One (1) 30 gallon State energy efficient electric water heater.



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DIVISION No. 9: PLUMBING (CONTINUED):

- 9.02 A. All vent and waste lines above ground will be plastic.
All under floor waste lines to be no-hub cast iron.
- B. All water lines to be copper, insulated.
- C. A backflow prevention valve shall be installed on incoming water line.

DIVISION No. 10: HEATING, VENTILATING AND AIR CONDITIONING:

Work under this division shall be performed in accordance with State and local codes:

- 10.01 Offices: Will be heated and cooled using the following equipment:
- A. One Gas Fired Furnace as manufactured by Carrier, Model # 58 SG-140-352- Having an input capacity of 140,000 B.T.U.
- B. One Air Cooled Condensing Unit as manufactured by Carrier Model # 38CC-048-401- Having a cooling capacity of 48,000 B.T.U.
- C. One Evaporator Coil as manufactured by Carrier Model # 28HQ-048-021- Having a cooling capacity of 48,000 B.T.U.
- Gas Fire Unit to be vented through roof with a Hart & Cooly Metalvent.
- 10.02 Factory Area: Will be heated and ventilated using the following equipment:
- A. Seven Gas Fired Unit Heaters as manufactured by Modine Model # PA 150- Having an input capacity of 150,000 B.T.U. each. Units to be wired for constant air circulation.



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DIVISION No. 10: HEATING, VENTILATING AND AIR CONDITIONING (CONTINUED):

- B. Two 48 inch wall exhaust fans as manufactured by Powerline, Model #48BV8K - having a capacity of an air change every five minutes. 1-1/2 HP 230 volt 3 phase each unit.
- C. Two 48 inch wall shutters as manufactured by Powerline.
- D. Four 48 inch by 60 inch Make Up Air Louvers as manufactured by Powerline.
- E. Four 48 inch by 60 inch Motorized Dampers as manufactured by Powerline.

10.03

E. D. ~~M~~ Room:

- A. One ~~water~~ ^{air} cooled Heating & Cooling Unit Heat Pump as manufactured by Carrier Model #50WQ-033-B-501 - having a capacity of 35,000 B.T.U. of cooling and a capacity of 35,500 B.T.U. of heating.

10.04

Salt Heat Treatment Room:

- A. One wall exhaust fan as manufactured by Powerline, Model #12DV7A, 115 volts, 2 speed, for ventilation in the Salt Heat Treatment Room.
- B. One 18 by 18 Louver as manufactured by Powerline.
- C. One motorized damper as manufactured by Powerline.
- D. Please note that per the Owner's requirements, no heating equipment is being provided at this area.

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DIVISION No. 10: HEATING, VENTILATING AND AIR CONDITIONING (CONTINUED):

10.05 Men and Women Lavatories and Lunch Room:

- A. One Gas Fired Horizontal Furnace as manufactured by Carrier Model #58SG-080-142; having a capacity of 80,000 B.T.U. input.

Ductwork will be properly sized to distribute air properly in the above area.

- B. Two Exhaust Fans as manufactured by Broan; having a capacity of 100 CFM each.

Fans will be ducted to outside wall using jacks.

10.06

- A. Ductwork will be sized and insulated to distribute air properly in the office area.

- B. Three Salt pots will be flued up through roof using 1-Mech. Chimney in Salt Heat Treatment Room.

- C. Burner jets and gas piping will be sized for natural gas.

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DIVISION NO. 11: ELECTRICAL

11.01 Work Included:

- A. The work includes the providing of all labor, materials, equipment, accessories and tests necessary to complete and make ready for operation by the Owner all electrical work as required and hereinafter specified.
- B. Also included but not limited to are the following:
 - 1. Main service switch
 - 2. Main distribution panelboard
 - 3. Lighting and power panels
 - 4. Feeders and power wiring
 - 5. Grounding
 - 6. Disconnect switches
 - 7. Power and control wiring for HVAC systems
 - 8. Branch circuit wiring
 - 9. Lighting fixtures complete with lamps
 - 10. Wiring devices and plates
 - 11. Emergency and exit lighting systems
- C. All conduits, raceways, fittings, cables, outlet boxes, hangers, supports, junction boxes, devices and all incidental items required for a complete system.

11.02 Electrical Service Work:

- A. The Utility Company will provide the primary feeder, pad mount transformer, fused cut-outs and metering equipment. Provide ground grid in accordance with Utility Company requirements.



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DIVISION No. 11: ELECTRICAL (CONTINUED):

- B. Secondary service to be rated at 600A 3 phase 4W 120/208V 60HZ. The main service switch shall be combination entrance and C.T. switch, circuit breaker type rated 600A. Provisions for Utility Company C.T.'s shall be included. Provide meter socket as required. Main service ground to incoming water service shall be provided in accordance with N.E.C. requirements.

11.03 Distribution Equipment:

- A. Provide a 600A main distribution panel having adequate circuits for building loads and space and bussing for future expansion.
- B. Provide sub panel rated at 120/208V to be utilized for lighting and power loads, size and number of circuits as required.
- C. Approximately 240/ ft. of 225 amp aluminum bus-way will be provided and installed.
- D. Separate conduit will be installed in floor slab to serve the following areas: E.D.M. Room, Compressor Shed, and Salt Heat Treat. Conduits will terminate at main distribution panel.

11.04 Wire and Cable:

- A. All wires and cables shall be of copper construction. Wire sizes #10 and smaller shall be type THHN stranded. Sizes #8 and larger shall be type THW stranded. In no instance shall aluminum or copper clad conductors be used for any portion of the wiring system.



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DIVISION No. 11: ELECTRICAL (CONTINUED):

11.05 Wiring Methods:

- A. The following wiring methods shall be employed:
1. Rigid galvanized steel conduit where placed in concrete slabs, buried in earth and where subject to mechanical injury.
 2. Thinwall tubing (EMT) in masonry walls, above hung ceilings, in furred-out areas of construction, exposed where not subject to mechanical injury.
 3. Armored cable (BX) use is limited to branch circuit wiring in metal or wood stud partitions, furred-out walls, in hung ceilings for lighting fixtures, etc. Romex cable is not permitted as a substitute for the above.

11.06 Lighting Fixtures:

- A. Furnish and install complete with outlets, lamps and accessories. All lighting to be operated at 120 volts.
1. Press, Tool, Tumbling, Furnished Stock and Salt areas - a general lighting level of approximately 50 foot candles will be provided using 2 lamp 96 inches high output industrial units attached to roof purlins.
 2. Raw materials, shipping-receiving areas - a general lighting level of approximately 20 foot candles will be provided using 96 inch high output industrial units attached to roof purlins.
 3. EDM Area - a general lighting level of approximately 75 foot candles will be provided using 2 lamp 96 inch high output industrial units attached to roof purlins.

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DIVISION No. 11: ELECTRICAL (CONTINUED):

11.06 Lighting Fixtures (continued):

4. Office, Lunch Areas - have lighting level approximately 75 foot candles using 4 lamp 2 ft. by 4 ft. recess grid type troffers.
5. Self-contained emergency and exit lights to be installed in conformance with applicable codes.
6. Combination fan/lites in Office Lavatories.

11.07 Wiring Devices:

- A. Duplex 120V receptacles and local wall switches shall be rated 20A specification grade, grounding type!
- B. General office area to have a total of 20 duplex receptacles located as directed by the Owner. Wiring to be four per circuit.
- C. Plant Area to have a total of 20 receptacles located as directed by Owner.
- D. Office Area, Cafeteria, and similar areas to have lighting controlled by local wall switches. Plant Area lighting controlled from subpanel.

11.08 HVAC Systems:

- A. Furnish and install all power and control wiring required for:
 - 1 - Combination 4 ton A/C and furnace.
 - 1 - Heat pump 3 ton.
 - 1 - Furnace (Lunch Area).
 - 7 - Gas fired unit heaters.
 - Exhaust fans and louvers.

Provide all disconnect switches for the above. Manual and magnetic motor starters supplied by HVAC Contractor.

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DIVISION No. 12: FIRE PROTECTION:

Work under this division includes furnishing and installing a wet pipe sprinkler system as follows:

- 12.01
- A. Plans and installation to be approved by I.S.O., East Hartford, Connecticut.
 - B. Sprinkler design based on Ordinary Hazard Group II, machine shops, metal working.
 - C. Installing five (5) ft. of six (6) inch fire service main from the town, installed main to building (town installs main to within five (5) ft. of building).
 - D. Provide chrome pendant sprinkler heads with chrome escutheons in the office areas.
 - E. Provide brass sprinkler heads in all other areas.
- 12.02 Also included are the following:
- 1. Inside main control valve.
 - 2. Alarm valve with retard chamber.
 - 3. Fire department pumper connection.
 - 4. Water motor gong and electric bell.
 - 5. Spare head cabinet with wrench.
 - 6. Ball drip.
 - 7. All necessary drains.
 - 8. Inspectors test valve.
 - 9. One (1) year guarantee.
 - 10. All necessary tests and certificates.
 - 11. Permit fee.
 - 12. Sales tax.
- 12.03 We exclude the following:
- A. Fire extinguishers and fire hose stations.
 - B. Detector check valve.



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DIVISION No. 13: STRUCTURAL STEEL, ROOF DECK AND STEEL SIDING:

13.01 The Contractor will furnish and erect one (1) one hundred and twenty-five (125) foot long by one hundred twenty (120) foot wide by fourteen (14) foot eave height MRF II structural system, as manufactured by "Butler Manufacturing Company".

The structural system will be designed for a forty pound live load and a twenty pound wind load plus dead load. Design loads will be certified by a Connecticut Registered Professional Engineer.

13.02 The roof will be "Butler's" exclusive "MR-24" standing seam system. This material, which is twenty-four gauge aluminum-zinc coated steel is warranted for twenty years in accordance with "Butler's" standard warranty. The roof system will be field seamed with a "Pittsburgh" standing seam to provide maximum weathertightness and controlled with sliding clips. Through-the-roof fasteners will be used only at the sheet laps. Thermal spacer blocks will be installed at the purlins to eliminate thermal short circuiting due to insulation compression.

This roof system carries a U.L. Class 90 wind up-lift rating which should lower the Owner's extended coverage insurance.

In addition, a ten year weathertightness endorsement will warrantee the builder's performance to repair and stop any leaks in the roof panels for a period of ten years.

13.03 Roof accessories will include contoured gutter and downspouts and endwall edge trim. All trim will be dark bronze.

13.04 All exterior walls, except the masonry areas will be sheeted with "BR II" factory painted steel sheets. All exposed fasteners will be covered with A.B.S. plastic color caps. An eight foot high liner panel of the same material will be constructed on the inside of the exterior walls at the shop. (Except where sheet-rock occurs and masonry occurs.

MRB



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DIVISION No. 14: MISCELLANEOUS SPECIALTIES (CONTINUED):

- 14.09 An air compressor shed will be built as shown on the floor plan. Inside wall surfaces will be exposed vinyl faced insulation. A twenty-four inch (24") fan (5,500 CFM) with exhaust louver, and twenty-four inch (24") motor operated louver will be installed through the compressor room wall. Electric strip heat will be installed to keep the room temperature above freezing.
- 14.10 Settling pit will be 5-1/2 ft. by 4 ft. by 4 ft. deep. Construction will be concrete. The interior will be painted as previously specified. The grating will be steel type, designed for a 75 pound live load, (human traffic only).
- 14.11 The Contractor will furnish and install one (1) 3,000 gallon pre-cast septic tank with manhole extension.
- 14.12 A sanitary manhole will be installed by this Contractor at the town installed septic system.

DIVISION No. 15: NOTES:

- 15.01 The following items are not included:
1. Electrical or plumbing hook-ups to the Owner's equipment and/or machines.
 2. Lockers, desks, chairs and other furnishings.
 3. Tapping fees, assessments and Utility Company charges, if any.
 4. All other items not specifically mentioned in divisions one through fourteen.
- 15.02 The settling pit outlet pipe currently is designed to empty into the underground roof drainage piping which in turn will empty into the town storm water piping at the cul de sac. A test should be made to insure that this water discharge will be acceptable.

MBB
[Signature]



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DIVISION No. 14: MISCELLANEOUS SPECIALTIES:

- 14.00 The Contractor shall also furnish and install the following:
- 14.01 Metal toilet partitions and urinal screen, flush panel, floor mounted type, as manufactured by "Sanymetal", or approved equal.
- 14.02 Toilet accessories including soap dispensers, mirrors, paper towel holders and paper holders.
- 14.03 Compressed air lines shall be installed as shown on the plan. Air lines shall be black iron type, three inch (3") in diameter, (1-1/2 inch from loop to EDM Room), complete with tees. Drops and quick disconnects are by Owner.
- 14.04 An eight ft. (8') high chain link partition shall be furnished and installed as shown on the floor plan. An allowance of \$5,500.00 shall be included for this item.
- 14.05 One (1) foam pad type dock seal and a set of dock bumpers shall be installed at the eight ft. (8') by eight ft. (8') overhead door.
- 14.06 Two (2) crane beams with brackets, hangers, etc. shall be installed at the salt-heat treatment room to support the 1/2 ton hoists. Hoists to be furnished by the Owner.
- 14.07 An aluminum flag pole with concrete base shall be furnished and installed as shown on the site plan. An allowance of \$1,100.00 has been included for this work.
- 14.08 Trenches at tumbling room shall be cast in place concrete type one ft. wide by one ft. deep maximum. The trenches will be painted with epoxy paint.

Grating will be cast iron type and shall be designed for pneumatic tire forklift traffic. Gratings will be field epoxy painted. (Please note use of solid tire forklifts is not recommended on this grating).

MCS