

LEGEND:

X F=13.20 Indicates a Proposed Finish Elevation

Indicates Roof Area

Indicates Leachate Control Area

DEP.
DEC 20 2001
Southwest District Tampa

SITE PLAN
C & D RECYCLING FACILITY SOLID WASTE MANAGEMENT
SARASOTA COUNTY LANDFILL

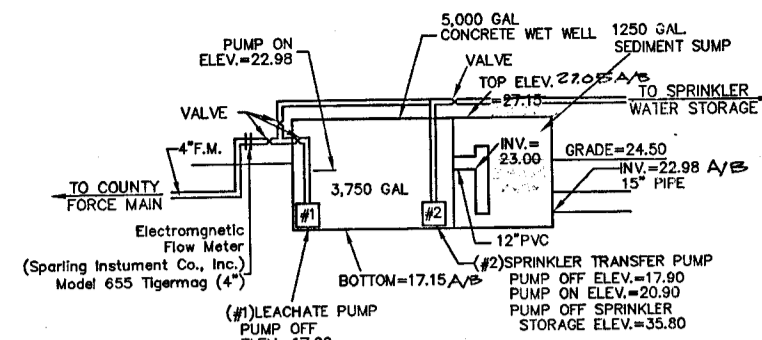
Lawrence R. Weber
LAWRENCE R. WEBER
FLORIDA CITY 11/13/01
DEP. 11/13/01

REV. 8/18/98
REV. 8/26/98
REV. 8/27/98
REV. 9/8/98
REV. 4/7/99
REV. 5/23/01
REV. 11/13/01
REV. 11/13/01

Truck Loading Area added
Truck Loading Area Revisions

1
3

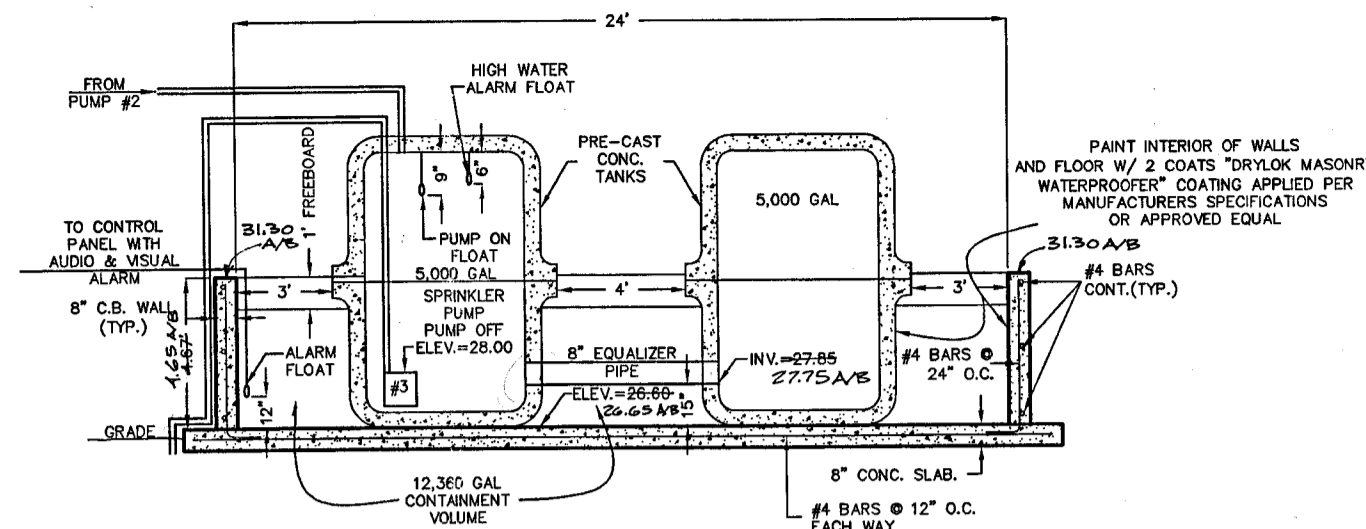
WEBER ENGINEERING & SURVEYING, INC.
4020 Beneva Road, Suite B, Sarasota, Florida 34233
Telephone (941) 921.3914
Surveys & Mapping Business Authorization No. LB 4010
Engineering Business Authorization No. EB 4010
Drawn By: CDJ Checked By: [Signature]
Date: 5/7/98 Scale: 1"=40' Job # 970417 Dwg. # D-11796.3
© 2001 Weber Engineering & Surveying, Inc.



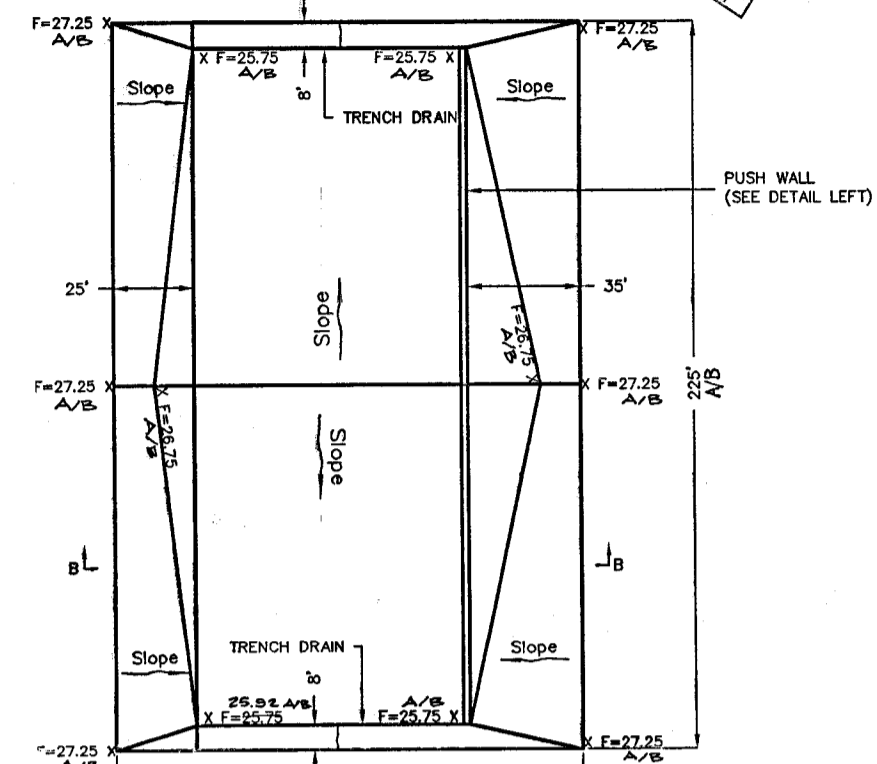
LEACHATE PUMP WET WELL DETAIL
NOT TO SCALE

LEACHATE PUMPS (#1) & (#2)
HYDRAMATIC MODEL SPGH500 SUBMERSIBLE GRINDER PUMP
5 HP, 3500 RPM, 1PH, 230V, 60Hz
80 GPM @ 69.5 TDH
6.75 INCH IMPELLER

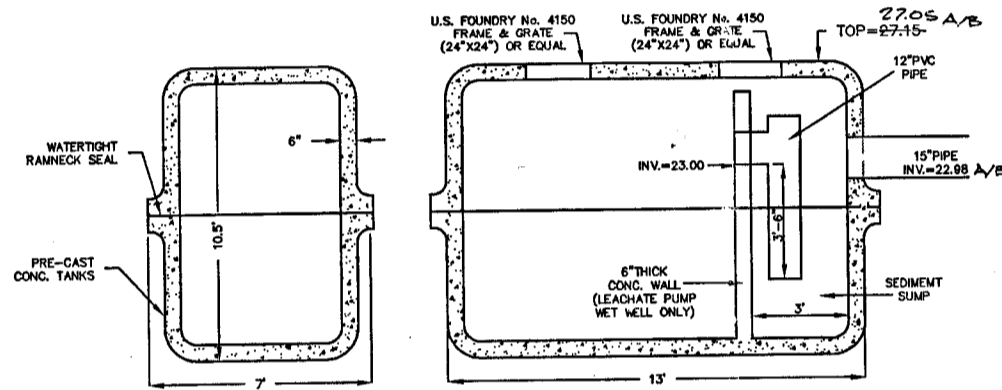
SPRINKLER PUMP (#3)
HYDRAMATIC MODEL SPGH500 SUBMERSIBLE GRINDER PUMP
5 HP, 3500 RPM, 1PH, 230V, 60Hz
50 GPM @ 165 TDH (50 PSI)
6.75 INCH IMPELLER



SPRINKLER WATER STORAGE DETAIL
NOT TO SCALE

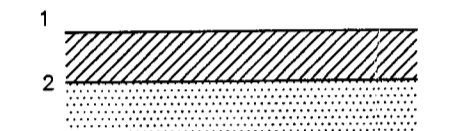


FLOOR GRADING PLAN
Scale: 1"=40'



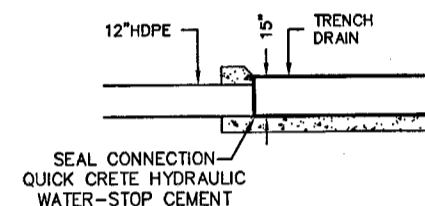
SECTION

TYPICAL PRE-CAST CONCRETE CONTAINER
NOT TO SCALE

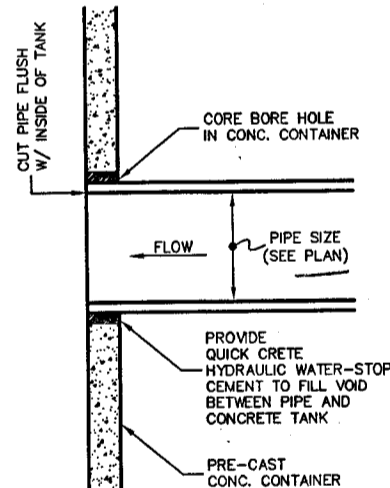


- 8" Shell Base compacted to 98% max. density AASHTO T-180 (Modified)
- 8" Compacted Subgrade 98% standard Proctor Min. LBR 40.

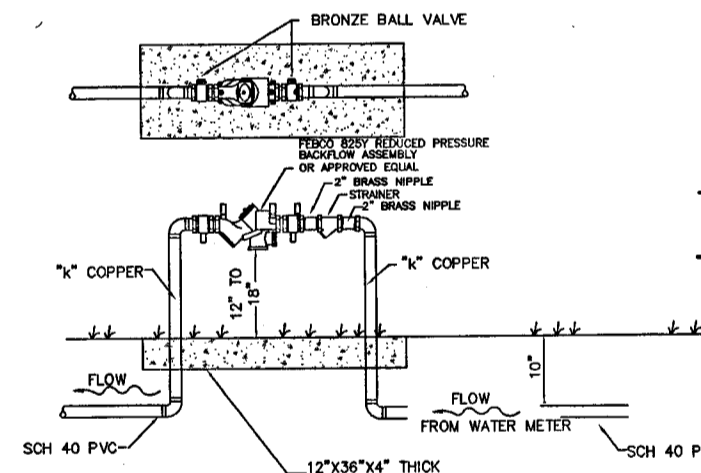
SHELL PAVEMENT DETAIL
SCALE: 1"=1'-0"



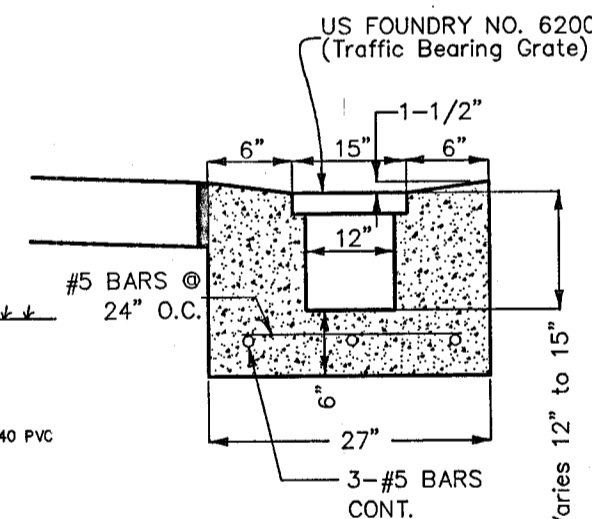
TRENCH DRAIN TO HDPE CONNECTION DETAIL
NOT TO SCALE



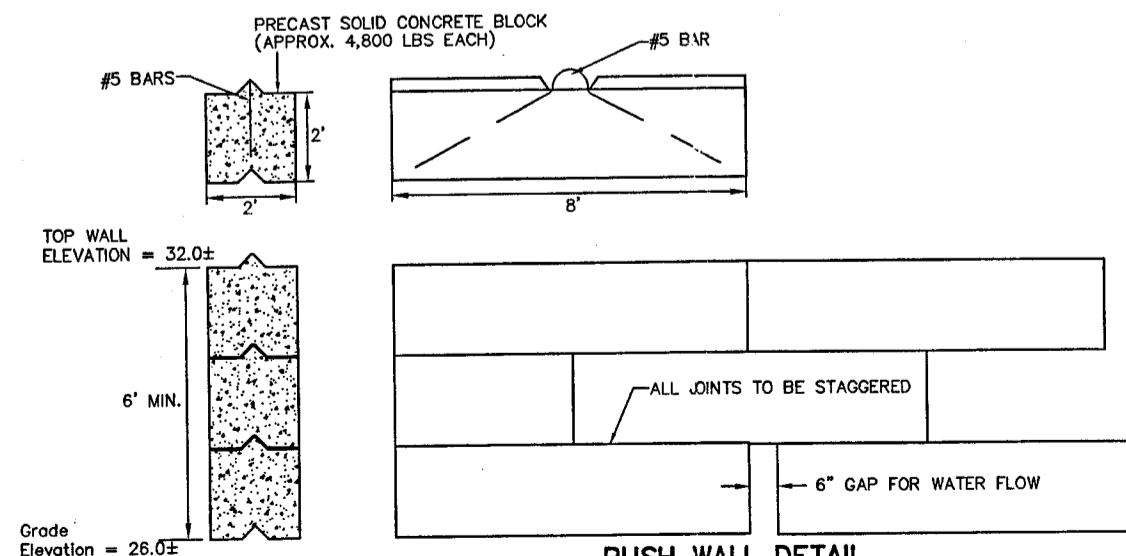
PIPE TO TANK CONNECTION DETAIL
NOT TO SCALE



3/4" - 2" REDUCED PRESSURE BACKFLOW ASSEMBLIES
N.T.S.



TRENCH DRAIN DETAIL
Not to Scale



PUSH WALL DETAIL
CONCRETE: 3000 psi @ 28 DAYS
STEEL: GRADE 40
SOIL BEARING: 1000psi MIN.
Scale: N.T.S.

WEBER ENGINEERING & SURVEYING, INC.
3932 Swift Road - Suite A, Sarasota, Florida 34231
Telephone (941) 921-3914
Surveying & Mapping Business Authorization No. LB 4010
Engineering Business Authorization No. EB 4010
Drawn By: CDJ - Checked By: [Signature]
Date: 5/7/98 Scale: As Noted Job # 970417 Dwg. # D-11796.4
© 1997 Weber Engineering & Surveying, Inc.

MISCELLANEOUS DETAILS
C & D RECYCLING FACILITY SOLID WASTE MANAGEMENT
SARASOTA COUNTY LANDFILL
Sarasota County, Florida

[Signature]
DATE: 5/24/98
FLORIDA CERT. NO. PE 20899
Date:

REV. 5/18/98
REV. 5/24/98 A-B-BUILT-#

SPECIFICATIONS
DESIGN CONDITIONS

MODEL SPGH H.P. 5
VOLT 230 PHASE 1
DISCHARGE 2" IMPELLER 6.75"

ENCLOSURE MAT FG X SS GPS
H.P. 5 PHASE 1 VOLTAGE 230
SERVICE SYSTEM 3 WIRE X 4 WIRE

* NOTE: CONTRACTOR TO FIELD VERIFY PHASE AND VOLTAGE

PUMP

THE PUMP SHALL BE A HYDROMATIC MODEL SPGH500 AND HAVE AN INTEGRALLY BUILT IN GRINDER UNIT AND SUBMERSIBLE TYPE MOTOR. THE PUMP SHALL BE SUSPENDED IN THE BASIN BY TWO (2) 1" STAINLESS STEEL GUIDE RAILS AND QUICK DISCONNECT LIFT OUT MOUNTING ASSEMBLY. SOLIDS SHALL BE FED IN AN UPFLOW DIRECTION TO THE GRINDER MECHANISM WITH NO OBSTRUCTIONS BELOW THE GRINDER INLET.

THE GRINDER UNIT SHALL BE CAPABLE OF CUTTING SOLID MATERIAL FOUND IN NORMAL DOMESTIC SEWAGE, INCLUDING REASONABLE AMOUNTS OF FOREIGN OBJECTS, SUCH AS WOOD PLASTIC, GLASS, RUBBER, SANITARY NAPKINS, DISPOSABLE DIAPERS AND PANTY HOSE INTO A FINE SLURRY THAT WILL PASS FREELY THROUGH THE PUMP, SERVICE LINE AND FORCE MAIN.

MOTOR

THE PUMP MOTOR SHALL BE OF THE SUBMERSIBLE TYPE RATED FOR 3, 5, 7-1/2 HORSEPOWER AT 3450 RPM. MOTOR SHALL BE SINGLE PHASE, OR THREE PHASE, 60 HERTZ. SINGLE PHASE MOTORS SHALL BE OF THE CAPACITOR START-CAPACITOR RUN TYPE FOR HIGH STARTING TORQUE.

THE STATOR WINDING SHALL BE THE OPEN TYPE WITH CLASS F INSULATION RATED FOR 105° C MAXIMUM OPERATING TEMPERATURE. THE WINDING HOUSING WILL BE FILLED WITH CLEAN DIELECTRIC OIL THAT WILL LUBRICATE BEARINGS, SEALS AND TRANSFER HEAT FROM THE WINDINGS TO THE OUTER SHELL. THE MOTOR STATOR IS TO BE PRESSED INTO THE MOTOR HOUSING FOR OPTIMUM CONCENTRICITY AND ALIGNMENT, AND MAXIMUM HEAT TRANSFER. THE MOTOR SHALL BE CAPABLE OF OPERATING OVER FULL RANGE OF PERFORMANCE CURVE WITHOUT OVERLOADING MOTOR AND CAUSING ANY OBSCURABLE NOISE OR VIBRATION.

THE MOTOR SHALL HAVE TWO BALL BEARINGS TO SUPPORT THE ROTOR; AN UPPER BALL BEARING TO ACCOMMODATE THRUST LOADS AND A LOWER BALL BEARING TO TAKE RADIAL LOADS. BALL BEARINGS SHALL BE DESIGNED FOR A LB-10 LIFE (50,000 HOURS).

A HEAT SENSOR THERMOSTAT AND OVERLOAD SHALL BE ATTACHED TO THE TOP END OF THE MOTOR WINDINGS AND SHALL STOP THE MOTOR IF THE MOTOR WINDING TEMPERATURE REACHES 200° F. THE HIGH TEMPERATURE SHUTOFF WILL CAUSE THE PUMP TO CEASE OPERATION, SHOULD A CONTROL FAILURE CAUSE THE PUMP TO RUN IN A DRY WET WELL. THE THERMOSTAT SHALL RESET AUTOMATICALLY WHEN THE MOTOR COOLS TO A SAFE OPERATING TEMPERATURE.

SEAL CHAMBER

THE MOTOR SHALL BE PROTECTED BY TWO (2) ROTARY SHAFT SEALS MOUNTED IN TANDEM WITH AN OIL FILLED CHAMBER SEPARATING THE SEALS. THE SEALS SHALL HAVE CARBON AND CERAMIC SEAL FACES DIAMOND LAPPED TO A TOLERANCE OF ONE LIGHT BAND. METAL PARTS AND SPRINGS FOR SEALS SHALL BE STAINLESS STEEL. AN ELECTRICAL SENSING PROBE SHALL BE MOUNTED IN THE SEAL CHAMBER TO DETECT ANY WATER LEAKAGE PAST THE LOWER SEAL.

GRINDER ASSEMBLY & CONSTRUCTION

THE GRINDER ASSEMBLY SHALL CONSIST OF A ROTATING RADIAL CUTTER AND A STATIONARY SHREDDING RING, AND SHALL BE MOUNTED DIRECTLY BELOW THE VOLUTE PASSAGE. THE ROTATING CUTTER SHALL BE THREADED ONTO THE STAINLESS STEEL SHAFT AND SHALL BE LOCKED WITH A SCREW AND WASHER. THE STATIONARY SHREDDING RING SHALL BE PRESSED ONTO AN IRON HOLDING FLANGE FOR EASY REMOVAL. THE FLANGE SHALL BE PROVIDED WITH TAPPED BACK-OFF HOLES SO THAT SCREWS CAN BE USED TO PUSH THE SHREDDING RING FROM THE HOUSING. BOTH THE RADIAL CUTTER AND SHREDDING RING SHALL BE REMOVABLE FROM THE OUTSIDE WITHOUT DISMANTLING PUMP. GRINDER ASSEMBLY SHALL BE OF SUCH CONSTRUCTION THAT NO CLEARANCE ADJUSTMENTS ARE REQUIRED WHEN ASSEMBLING. ALL GRINDING OF SOLIDS SHALL BE FROM THE ACTION OF THE RADIAL CUTTER AGAINST THE SHREDDING RING. THE RADIAL CUTTER AND SHREDDING RING SHALL BE OF #440 STAINLESS STEEL HARDENED TO 53-60 ROCKWELL C.

PUMP IMPELLER

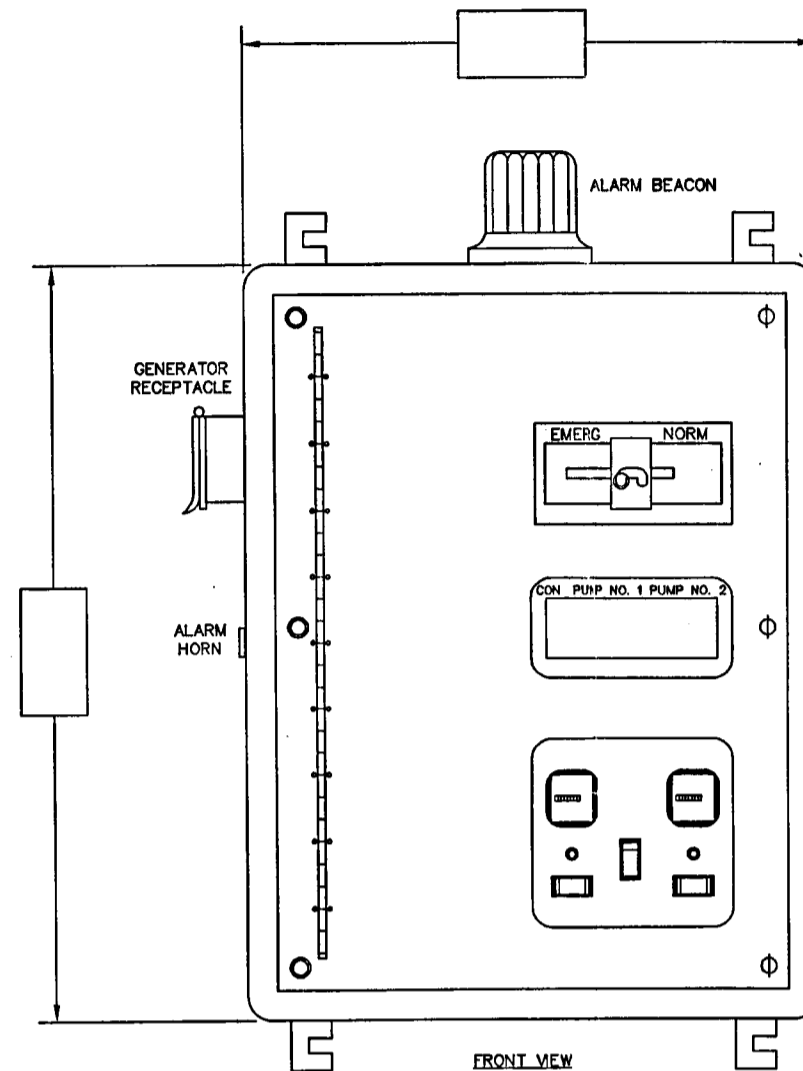
THE PUMP IMPELLER SHALL BE OF THE RECESSED TYPE TO PROVIDE AN OPEN UNOBSTRUCTED PASSAGE THROUGH THE VOLUTE FOR THE GROUND SOLIDS. THE IMPELLER SHALL BE CONSTRUCTED OF CAST IRON AND SHALL HAVE PUMP OUT VANES ON THE BACK SIDE OF THE IMPELLER TO KEEP SOLIDS FROM LOWER SEAL AND REDUCE PRESSURE AT THE SEAL FACES. IMPELLER SHALL BE THREADED ONTO THE STAINLESS STEEL SHAFT.

PUMP & MOTOR CASTINGS

ALL IRON CASTING SHALL BE OF HIGH TENSILE CAST IRON AND SHALL BE PROPERLY CLEANED, PRE-TREATED WITH CHROMIC RINSE, AND PAINTED WITH A HIGH QUALITY ENAMEL PAINT. ALL PUMP COMPONENTS THAT ARE NOT CAST IRON OR STAINLESS STEEL SHALL BE GALVANIZED OR PAINTED WITH BAKED-ON EPOXY. ALL FASTENERS SHALL BE #302 STAINLESS STEEL.

SERVICE

PUMPS, PARTS, & AND SERVICE SHALL BE AVAILABLE FROM AN AUTHORIZED MANUFACTURERS WARRANTY SERVICE STOCKING DISTRIBUTOR.



ENCLOSURE WITH PADLOCKABLE LATCHED COVER

CONTROL PANEL
PER D.E.P. REQUIREMENTS

SPECIFICATIONS FOR DUPLEX D.E.P. TYPE CONTROL PANEL

EACH PANEL SHALL CONTROL TWO 5 HP, 230 VOLT, 1 PHASE, 60 HZ PUMPS.

A NEUTRAL SHALL BE SUPPLIED TO THE PANEL FOR 120 VOLT CONTROL POWER.

PANEL ENCLOSURE

ENCLOSURE SHALL BE NEMA 3R FABRICATED FROM FIBERGLASS, ALUMINUM, OR GALVANIZED PAINTED STEEL. OUTER DOOR SHALL HAVE HINGES AND MEANS FOR LOCKING, INNER DEADFRONT DOOR SHALL BE 5052-H32 ALLOY ALUMINUM. ALL MOUNTING HOLES SHALL BE DRILLED AND TAPPED, SELF TAPPING SCREW NOT ACCEPTABLE. ALL BOLTS, NUTS, LOCK WASHERS, AND MACHINE SCREWS SHALL BE STAINLESS STEEL.

THE FOLLOWING MAJOR COMPONENTS ARE REQUIRED:

- 1) MAIN BREAKER
- 2) EMERGENCY BREAKER AND GENERATOR RECEPTACLE-RUSSEL STOLL
- 3) PUMP BREAKERS
- 4) CONTROL CIRCUIT BREAKER
- 5) ALTERNATOR
- 6) HIGH LEVEL FLASHING ALARM LIGHT
- 7) HIGH LEVEL HORN ALARM WITH SILENCE - WHEN SILENCE LIGHT STAYS ON
- 8) LIGHTNING ARRESTOR
- 9) SURGE SUPPRESSOR
- 10) PHASE/UNDER VOLTAGE MONITORING RELAY IF 3 PHASE, UNDER VOLTAGE MONITORING RELAY IF SINGLE PHASE
- 11) NEMA RATED MOTOR STARTERS WITH OVERLOAD PROTECTION FOR ALL POWER LEGS
- 12) ELAPSE TIME METERS
- 13) CAPACITORS AND START-RELAYS AS APPROVED FOR PUMPS ON SINGLE PHASE SYSTEMS.

TYPICAL SEQUENCE OF OPERATION:

ON RISE LEVEL:

LOWEST FLOAT WILL CLOSE CIRCUIT TO RELAY. LEAD PUMP ON FLOAT CLOSES TO BRING LEAD PUMP ON. IF LEAD DOES NOT REcede AND CONTINUES TO RISE, THE LAG FLOAT WILL CLOSE AND BRING ON THE LAG PUMP. FURTHER RISING OF LEVEL IN WETWELL WILL CLOSE 4TH FLOAT (HIGH LEVEL) AND ACTIVATE THE HIGH LEVEL ALARM LIGHT AND HORNS.

ON FALLING LEVEL:

ALL PUMPS WILL DE-ENERGIZE AT THE OPENING OF THE LOWEST(OFF) FLOAT

CONTROL CIRCUITRY WILL BE SUCH THAT NO FLOAT WILL DEPEND ON ANOTHER FLOAT FOR ITS CONTROL POWER.

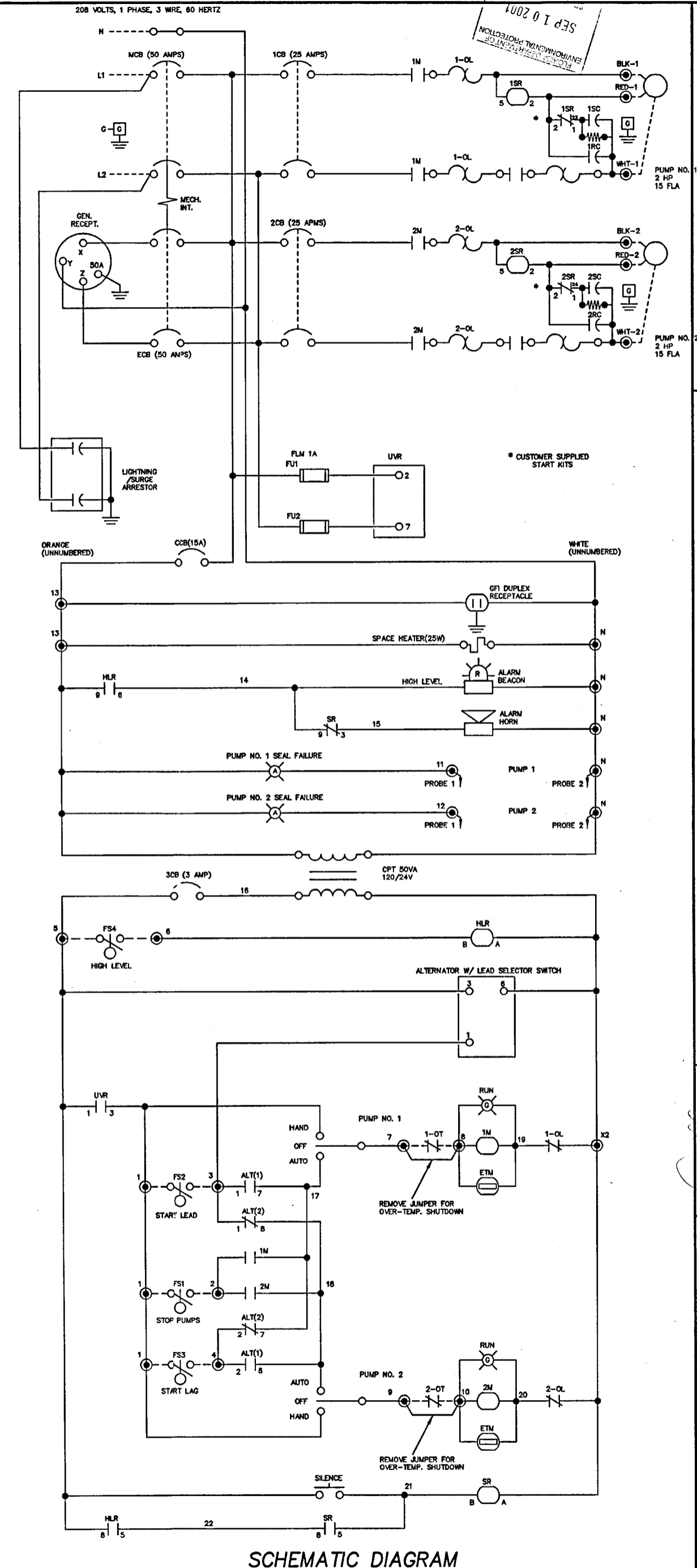
CONTROL PANEL SCHEMATICS, IN PLASTIC LAMINATE, IS TO BE AFFIXED TO THE INSIDE OF THE OUTER DOOR.

ALL WIRING SHALL BE NUMBERED.

IN THE EVENT THE PUMPS BEING FURNISHED REQUIRE SEAL FAILURE COMPONENTS AND INDICATION TO VALIDATE WARRANTY, THESE COMPONENTS SHALL BE FURNISHED AS REQUIRED.

ALL COMPONENT LABELS SHALL BE OF THE LAZER PRINTED NYLAR PLASTIC LABELS.

A 24 HOUR EMERGENCY TELEPHONE CONTACT SHALL BE DISPLAYED BY THE OWNER.



SCHEMATIC DIAGRAM

WEBER ENGINEERING & SURVEYING, INC.
3932 Swift Road, Suite A, Sarasota, Florida 34231
Telephone (941) 921-3914
Surveying & Mapping Business Authorization No. LB 4010
Engineering Business Authorization No. EB 4010
Drawn By: CDJ Checked By: [Signature]
Date: 5/7/98 Scale: As Noted Job # 970417 Dwg. # D-1179601L
© 1998 Weber Engineering & Surveying, Inc.

C & D RECYCLING FACILITY SOLID WASTE MANAGEMENT
SARASOTA COUNTY LANDFILL
Sarasota County, Florida

Lawrence R. Weber
FLORIDA CERT. NO. FE 00899
Date: 5/15/98

3/3