HSA Golden

Environmental and Engineering Consultants

PERMIT MODIFICATION APPLICATION:
CLASS I & III
WASTE PROCESSING FACILITY

TAFT RECYCLING, INC.
TAFT, FLORIDA

Prepared for:

TAFT RECYCLING, INC.
375 W. 7th Street
Taft, Florida 32824

Prepared by:

HSA GOLDEN
225 East Robinson Street, Suite 100
Orlando, Florida 32801

Project No. 04-297.001

August 2004

225 East Robinson Street, Suite 100
Orlando, Florida 32801
Phone: 407 649-5475
Fax: 407 649-6582
Web: www.hsagolden.com

August 17, 2004

Mr. James N. Bradner, P.E.
Florida Department of Environmental Protection
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803

Subject: **Class III Waste Processing Facility Permit Modification Application**
Taft Recycling, Inc., 375 7th Street, Taft, Florida
Permit No. SO48-0173968-003
Project No. 04-297.001

Dear Mr. Bradner:

On behalf of Taft Recycling, Inc., HSA Golden is submitting for your review a permit application for a proposed modification to add a Class I MRF to the existing Class III Waste Processing Facility located in Taft, Florida. A check for the $2,000.00 processing fee is enclosed. We have organized the attachments to the submittal in the following format:

- Attachment A — Application Form No. 62-701.900(4)
- Attachment B — Property Deeds, Lease, and Legal Description
- Attachment C — Operations Plan
- Attachment D — Aerial Photograph and Site Plans
- Attachment E — Financial Assurance
- Attachment F — Geotechnical Report
- Attachment G — DEP ERP

Facility compliance with prohibitions of rule 62-701.300, F.A.C. was previously submitted, see letter in Attachment A. In addition, we have submitted an ERP modification request to the Department's stormwater section under separate cover.

We trust that this submittal will meet the requirements of rule 62-701 F.A.C. and will allow the permit modification issuance for the subject modified waste processing facility.

Please call if you have any questions.

Sincerely,

HSA GOLDEN

8/17/04

James E. Golden, P.G.
Vice President, Principal Hydrogeologist

Attachments

Addressee (4)
Copy to: George Ward, Taft Recycling
Bill Condron, Taft Recycling

ATTACHMENT A

APPLICATION FORM 62-701.900(4)

Florida Department of Environmental Protection
Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, FL 32399-2400

DEP Form # 62-701.900(4)
Form Title Application to Construct, Operate or Modify a Waste Processing Facility
Effective Date 05-27-01

DEP Application No. _____
(Filled by DEP)

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

APPLICATION FOR PERMIT TO CONSTRUCT, OPERATE OR MODIFY A WASTE PROCESSING FACILITY

GENERAL REQUIREMENT: Solid Waste Management Facilities shall be permitted pursuant to Section 403.707, Florida Statutes,(F.S.) and in accordance with Florida Administrative Code (F.A.C.) Chapter 62-701. A minimum of four copies of the application shall be submitted to the Department District Office having jurisdiction over the facility. The appropriate fee in accordance with Rule 62-701.315(4), F.A.C., shall be submitted with the application by check made payable to the Department of Environmental Protection (DEP). Complete appropriate sections for the type of facility for which application is made and include all additional information, drawings, and reports necessary to evaluate the facility.

Please Type or Print in Ink

A. GENERAL INFORMATION

1. Type of facility (check all that apply):
   - [✔] Transfer Station
   - [✔] Materials Recovery Facility:
     - [ ] C&D Recycling
     - [✔] Class III MRF
     - [✔] MSW MRF
     - [ ] Other Describe: _____
   - [✔] Volume Reduction Facility
     - [✔] Pulverizer/Shredder
     - [✔] Compactor/Baling
     - [ ] Other Describe: _____

NOTE: C&D Disposal facilities that also recycle C&D, shall apply on DEP FORM 62-701.900(6), F.A.C.

2. Type of application:
   - [✔] Construction/Operation
   - [ ] Operation Without Additional Construction

3. Classification of application:
   - [ ] New
   - [ ] Renewal
   - [✔] Substantial Modification
   - [ ] Intermediate Modification
   - [ ] Minor Modification

4. Facility name: Taft Recycling, Inc.

5. DEP ID number: SO48-0173968-003 County: Orange

6. Facility location (main entrance): 375 7th Street, Taft, Florida 32824

7. Location coordinates:

   Section: 2 Township: 24S Range: 29E

   UTMs: Zone 17 462480 km E 3144268 km N

   Latitude: 28 ° 25 ' 33 " Longitude: 81 ° 22 ' 59 "

8. Applicant name (operating authority): Taft Recycling, Inc.

Mailing address: 1099 Miller Drive (Street or P.O. Box) Altamonte Springs, (City) Florida (State) 32701 (Zip)

Contact person: Bill Condron Telephone: (407) 851-0074

Title: Regional Manager bcondron@recyclingit.com (E-Mail address (if available))

9. Authorized agent/Consultant: HSA Golden

Mailing address: 225 E. Robinson Street, Suite 100 (Street or P.O. Box) Orlando (City) Florida (State) 32801 (Zip)

Contact person: James E. Golden Telephone: (407) 649-6458

Title: Vice President jgolden@hsagolden.com (E-Mail address (if available))

10. Landowner(if different than applicant): 7th Street Properties, LLC

Mailing address: 2401 S. Laflin Street (Street or P.O. Box) Chicago (City) Illinois (State) 60608 (Zip)

Contact person: Jeff Godfrey, Comptroller Telephone: (312) 942-0042

jgodfrey@recyclingit.com (E-Mail address (if available))

11. Cities, towns and areas to be served: Orange, Osceola, Seminole Counties; City of Orlando

12. Date site will be ready to be inspected for completion: July 2005

13. Estimated costs:

Total Construction: $ 1,000,000 Closing Costs: $ TBD

14. Anticipated construction starting and completion dates:

From: January 2005 To: July 2005

15. Expected volume of waste to be received: 4,000 yds^3/day 1,500 tons/day

16. Provide a brief description of the operations planned for this facility: The facility will accept Class I and Class III waste from private collection vehicles. The Class I waste will be placed into transport vehicles and hauled to a Department permitted Class I landfill. Recyclable materials will be separated from the Class III waste stream. The remaining waste will be hauled to a Department permitted Class III landfill.

B. ADDITIONAL INFORMATION

Please attach the following reports or documentation as required.

1. Provide a description of the solid waste that is proposed to be collected, stored, processed or disposed of by the facility, a projection of those waste types and quantities expected in future years, and the assumptions used to make the projections (Rule 62-701.710(2)(a), F.A.C.). Attachment C, Sections 1.1 and 1.2

2. Attach a site plan, signed and sealed by a professional engineer registered under Chapter 471, F.S., with a scale not greater than 200 feet to the inch, which shows the facility location, total acreage of the site, and any other relevant features such as water bodies or wetlands on or within 200 feet of the site, potable water wells on or within 500 feet of the site and wells serving community water supplies on or within 1000 feet of the site (Rule 62-701.710(2)(b), F.A.C.). Attachment D

3. Provide a description of the operation and functions of all processing equipment that will be used, with design criteria and expected performance. The description shall show the flow of solid waste and associated operations in detail, and shall include (Rule 62-701.710(2)(c), F.A.C.):
   a. Regular facility operations as they are expected to occur;
   b. Procedures for start up operations, and scheduled and unscheduled shut down operations; and
   c. Potential safety hazards and control methods, including fire detection and control. Attachment C, Sections 1.16, 1.2, 1.6.4, and 2.0; Appendix C

4. Provide a description of the design requirements for the facility which demonstrate how the applicant will comply with Rule 62-701.710(3), F.A.C. Attachment C, Section 2.0

5. Provide a description of the loading, unloading, storage and processing areas (Rule 62-701.710(2)(d), F.A.C.). Attachment C; Sections 1.2; 2.3; 2.5; Site Plan

6. Provide the identification and capacity of any on-site storage areas for recyclable materials, non-processable wastes, unauthorized wastes, and residues (Rule 62-701.710(2)(e), F.A.C.). Attachment C; Site Plan; Appendix B

7. Provide a plan for disposal of unmarketable recyclable materials and residue, and for waste handling capability in the event of breakdowns in the operations or equipment (Rule 62-701.710(2)(f), F.A.C.). Attachment C; Section 2.5

8. Provide a boundary survey, legal description, and topographic survey of the property(Rule 62-701.710(2)(g), F.A.C.). Attachment B

9. Provide an operation plan which describes how the applicant will comply with Rule 62-701.710(4), F.A.C. (Rule 62-701.710(2)(h), F.A.C.). Attachment C

10. Provide a closure plan which describes generally how the applicant will comply with Rule 62-701.710(6), F.A.C. (Rule 62-701.710(2)(I). F.A.C.). Attachment C; Section 3.0

11. Unless exempted by Rule 62-701.710(10(a), F.A.C., provide the financial assurance documentation required by Rule 62-701.710(7), F.A.C. (Rule 62-701.710(2)(j), F.A.C.). Attachment E

12. Provide documentation to show that stormwater will be controlled according to the requirements of Rule 62-701.710(8), F.A.C. Attachment G; Proposed Site Plan, Sheet C-1

13. Provide documentation to show that the applicant will comply with the recordkeeping requirements of Rule 62-701.710(9), F.A.C. Attachment C, Section 2.9

C. **CERTIFICATION BY APPLICANT AND ENGINEER OR PUBLIC OFFICER**

1. Applicant:

The undersigned applicant or authorized representative of Taft Recycling, Inc. _____ is aware that statements made in this form and attached information are an application for a Waste Processing Facility Permit from the Florida Department of Environmental Protection and certifies that the information in this application is true, correct and complete to the best of his/her knowledge and belief. Further, the undersigned agrees to comply with the provisions of Chapter 403, Florida Statutes, and all rules and regulations of the Department. It is understood that the Permit is not transferable, and the Department will be notified prior to the sale or legal transfer of the permitted facility.

Signature of Applicant or Agent

Bill Condron, Regional Manager
Name and Title (please type)

bcondron@recyclingit.com
E-Mail address (if available)

2401 S. Laflin Street
Mailing Address

Chicago, Illinois, 60608
City, State, Zip Code

(312) 942-0042
Telephone Number

Date: 8.4.04

Attach letter of authorization if agent is not a governmental official, owner, or corporate officer.

2. Professional Engineer registered in Florida (or Public Officer if authorized under Sections 403.707 and 403.7075, Florida Statutes):

This is to certify that the engineering features of this waste processing facility have been designed/examined by me and found to conform to engineering principles applicable to such facilities. In my professional judgment, this facility, when properly maintained and operated, will comply with all applicable statutes of the State of Florida and rules of the Department. It is agreed that the undersigned will provide the applicant with a set of instructions of proper maintenance and operation of the facility.

David L. Leggett 8-17-04
Signature

David L. Leggett, P.E.
Name and Title (please type)

58667
Florida Registration Number
(please affix seal)

HSA GOLDEN, 225 E. Robinson St., Suite 100
Mailing Address

Orlando, FL 32801
City, State, Zip Code

dleggett@hsagolden.com
E-Mail address (if available)

(407) 649-6437
Telephone Number

Date: _____

HARTMAN & ASSOCIATES, INC.

engineers, hydrogeologists, surveyors & management consultants

PRINCIPALS:

James E. Christopher, P.E.
Charles W. Drake, P.G.
Gerald C. Hartman, P.E.
Mark I. Luke, P.S.M.
Mark A. Rynning, P.E.
Harold E. Schmidt, Jr. P.E.
William D. Musser, P.E.

SENIOR ASSOCIATES:

C. Zachary Fuller, P.E.
Marco H. Rocca, C.M.C.

ASSOCIATES:

J. Richard Voorhees, P.E.
Douglas P. Dutresne, P.G.
Roderick K. Cashe, P.E.
Jon D. Fox, P.E.
James E. Golden, P.G.
Troy E. Layton, P.E.
Alicia E. Oller, M.S.
Andrew T. Woodcock, P.E.
Lawrence E. Jenkins, P.S.M.
Daryl C. Walk, P.E.
Grant C. Malchow, M.B.A.
John P. Toomey, P.E.
W. Thomas Roberts, III, P.E.
Michael B. Bomar, P.E.

REGIONAL MANAGERS

Mark A. Gabriel, P.E.

October 9, 2000

HAI #99-202.07

Via UPS Overnight

Mr. James Bradner, P.E.
Program Manager, Solid Waste
Florida Department of Environmental Protection
3319 Maquire Boulevard, Suite 232
Orlando, Florida 32803

10/10/2000

Subject: **Response to Request for Additional Information**
South Orlando MRF
Taft Recycling, Inc.
Taft, Florida
Permit Application No. SC48-0173968-001 & SO48-0173968-002

Dear Mr. Bradner:

On behalf of Taft Recycling, Inc., Hartman & Associates (HAI) is responding to your request for additional information dated September 14, 2000. The Department's comments and our responses are listed below.

1. Comment: **Submit proof of publication in a newspaper of general circulation of Notice of Application for a permit to construct and operate a materials recovery facility as requested in Florida Department of Environmental Protection letter OCD-SW-00-0398 dated August 29, 2000.**

Response: The proof of publication was sent to Vivian Garfein on September 26, 2000. A copy of the notification is attached.

2. Comment: **Provide information to indicate that the proposed construction and operation of the materials recovery facility is not in violation of the prohibitions of Rule 62-701.300, F.A.C.**

Response: The proposed MRF construction and operation will not violate the FAC 62-701.300 Prohibitions as stated below:

(1) (a) No solid waste will be stored at the proposed MRF prior to permitting.
(b) No solid waste will be stored in the manner or location that will cause air quality, water quality, or receiving water standards to be violated, as described in the application.

(2) No on-site disposal is proposed.
(a) The area proposed for storage of solid waste is not in an area of unstable geological formations (sinkholes) or soils, see Attachment A (Engineering Report) and Attachment J (Geotechnical Report) of the permit application.
(b) See Attachment A (Engineering Report) of the permit application.
(c) A door-to-door well survey was performed to locate existing water supply wells within 500 feet of the proposed facility. The well survey indicated that all the properties within 500 feet of the site are commercial properties and receive water from the City of Taft. No wells were located within the search area.
(d) The Facility will not store wastes in a dewatered pit.
(e) As shown on the FEMA map (Figure 3) in the Engineering Report, the western half of the property is located within the 100 year flood zone. However, the property has been built up to an elevation of approximately 98 feet NGVD from the 100-year flood elevation of approximately 94 feet NGVD indicated on the USGS topographic map. Also, a stormwater system has been developed for the site to collect and control surface water runoff. Therefore, we do not anticipate any flooding problems on the subject site.
(f) The Facility will not store wastes in surfacewater or groundwater.
(g) No solid waste will be stored within 200 feet of the closest water body (Boggy Creek). The National Wetland Inventory shows a wetland on the property which extends onto the property to the east. As explained in Section 2.4 of the Engineering Report, this wetland was filled by the owner to surrounding grade with clean debris and partially covered with concrete.
(h) The Facility will not store wastes in any road right-of-way.
(i) The South Florida Water Management District (SFWMD) was contacted to request a survey of all the permitted water supply wells within 1000 feet of the proposed facility. The well inventory indicated that the proposed MRF is not within 1,000 feet of a community potable well.

(3) No burning is proposed at the MRF.
(4) Hazardous wastes are unacceptable wastes at the proposed MRF, see application.
(5) PCBs wastes are unacceptable wastes at the proposed MRF, see application.
(6) Biohazardous wastes are unacceptable wastes at the proposed MRF, see application.
(7) N/A

(8) N/A
(9) N/A
(10) N/A
(11) (a) N/A
(b) N/A

3. Comment: **Appendix I in the report indicates that notice was sent to Orlando International Airport and Florida Department of Transportation regarding airport safety requirements. The evidence of notification to Orlando International Airport and Florida Department of Transportation is missing in the report. Submit copies of notification sent to Orlando International Airport and Florida Department of Transportation.**

Response: The Greater Orlando Aviation Authority (Orlando International Airport) and the Florida Department of Transportation both received a copy of the letter that was included in Appendix I. Copies of the Certified Mail receipts are attached.

4. Comment: **Appendix I on Airport Safety describes the site as an existing recycling facility. Provide information as to whether the site is a Department permitted recycling facility. Also, indicate what materials were recycled and the year the facility started recycling.**

Response: The existing wood recycling facility was not permitted by the Department. The site owner stated that the facility recycles wood pallets, and previously concrete, and began recycling approximately 20 years ago. Only wood pallet chipping is currently active on the site. The wood chipping facility is currently operated by Taft Recycling.

5. Comment: **Provide information as to whether the storage, sorting and processing areas including the tipping floor for the materials recovery facility are in an enclosed area and under a roof.**

Response: The solid waste storage, sorting, and processing area, including the tipping floor, will be covered by a roof, see Figure C-1. Detail drawings of the building's foundation and canopy are attached, see Figure C-2. Additional processing equipment details are also attached. Future plans include the expansion of the building.

6. Comment: **Appendix C- Facilities Operation Flow Chart shows reject C&D waste is disposed at C&D landfill and reject class III material is disposed at Class II landfill. Please note that if the C&D waste is from a mixed load of C&D and Class III, then the C&D waste has to be disposed in a Class III landfill. Please comment.**

Response: As noted, any rejected C&D waste that has been mixed with Class III waste will be disposed of in a Class III Landfill.

7. Comment: **Page 3-3, Attachment A, Sec. 3.6 indicates that Class III and C&D wastes will be deposited onto a concrete tipping pad to prevent waste contact with the ground and to assist leachate containment. Provide information as to how leachate containment is achieved.**

Response: The tipping floor will be covered by a roof to prevent leachate generation from precipitation. Leachate produced from wash water will be collected in a sump in the tipping floor, see Figure C-2. Leachate collected in the sump will be pumped out and properly disposed of by a contract Industrial waste service.

8. Comment: **Page 2-2, Sec. 2.5 of the report indicates that the recycling process does not involve the use of water and so no leachate collection system is proposed. Provide information on the disposal of wash water from the tipping floor and processing area.**

Response: A sump will be constructed in the tipping floor to collect any wash water or liquids brought in with loads. Wash water will be used sparingly and absorbent material will be used to cleanup spills. When the sump fills up, the water will be pumped out and properly disposed of by a contract Industrial waste service.

9. **The boundary survey submitted in Attachment D was not signed and sealed by a Florida registered land surveyor. Please submit the same, signed and sealed by a land surveyor registered in the State of Florida.**

Response: A signed and sealed boundary survey is attached.

10. Comment: **Financial responsibility arrangements for the facility are to be made with the Florida Department of Environmental Protection, Financial Coordinator – Solid Waste Section, 2600 Blair Stone Road, MS-4565, Tallahassee, Florida 32300-2400, with a copy to the Department of Environmental Protection – Solid Waste Section, 3319 Maguire Boulevard, Suite 232, Orlando, Florida 32803.**

Response: We assume FDEP has approved the Financial Assurance Cost estimate for the Facility. A copy of the bond for this amount and the appropriate paperwork will be forwarded to the Department this week, and the original sent to the FDEP Financial Coordinator, in Tallahassee.

We trust that our responses will allow permit approval.

If you have any questions, please give me a call.

Very truly yours,

Hartman & Associates, Inc.

10/9/00

James E. Golden, P.G.
Senior Hydrogeologist/Associate

Roderick K. Cashe, P.E.
Project Engineer/Associate

JEG/sas/sma//99-202.07/corresp/bradner1A.vsc

Attachments

cc: Joe Briarton, Taft Recycling, Inc.
Sid Vihlen, Jr., Taft Recycling, Inc.
Brent Fifer, Wood Recycling, Inc.
Dave Sevigny, Florida Recycling Services, Inc.

ATTACHMENT B

PROPERTY INFORMATION

REAL ESTATE LEASE

This Lease Agreement (this "Lease") is dated May 03, 2004, by and between 7TH STREET PROPERTIES, LLC ("Landlord"), and TAFT RECYCLING, INC. ("Tenant"). The parties agree as follows:

PREMISES. Landlord, in consideration of the lease payments provided in this Lease, leases to Tenant, the Transfer Station Property, scale and scale house. (the "Premises") located at 375 W. 7th Street, Orlando, Florida 32824.

LEGAL DESCRIPTION. The legal description for the premises is attached as an exhibit.

TERM. The lease term will begin on May 01, 2004 and will terminate on April 30, 2007.

LEASE PAYMENTS. Tenant shall pay to Landlord monthly installments of $9,000.00, payable in advance on the first day of each month, for a total lease payment of $324,000.00. Lease payments shall be made to the Landlord at 2401 South Laflin, Chicago, Illinois 60608, which address may be changed from time to time by the Landlord.

SECURITY DEPOSIT. At the time of the signing of this Lease, Tenant shall pay to Landlord, in trust, a security deposit of $12,000.00 to be held and disbursed for Tenant damages to the Premises (if any) as provided by law.

POSSESSION. Tenant shall be entitled to possession on the first day of the term of this Lease, and shall yield possession to Landlord on the last day of the term of this Lease, unless otherwise agreed by both parties in writing. At the expiration of the term, Tenant shall remove its goods and effects and peaceably yield up the Premises to Landlord in as good a condition as when delivered to Tenant, ordinary wear and tear excepted.

USE OF PREMISES. Tenant may use the Premises only for Waste Transfer Station and Recycling facility. The Premises may be used for any other purpose only with the prior written consent of Landlord, which shall not be unreasonably withheld. Tenant shall notify Landlord of any anticipated extended absence from the Premises not later than the first day of the extended absence.

FURNISHINGS. The lease of the Premises includes the furnishings listed on the attached exhibit. Tenant shall return all such items at the end of the lease term in a condition as good as the condition at the beginning of the lease term, except for such deterioration that might result from normal use of the furnishings.

PROPERTY INSURANCE. Tenant shall maintain casualty insurance on the Premises in an amount not less than $350,000.00. Landlord shall be named as an additional

insured in such policies. Tenant shall deliver appropriate evidence to Landlord as proof that adequate insurance is in force issued by companies reasonably satisfactory to Landlord. Landlord shall receive advance written notice from the insurer prior to any termination of such insurance policies. Tenant shall also maintain any other insurance which Landlord may reasonably require for the protection of Landlord's interest in the Premises. Tenant is responsible for maintaining casualty insurance on its own property.

LIABILITY INSURANCE. Tenant shall maintain liability insurance on the Premises with personal injury limits of at least $1,000,000.00 for injury to one person, and $2,000,000.00 for any one accident, and a limit of at least $350,000.00 for damage to property. Tenant shall deliver appropriate evidence to Landlord as proof that adequate insurance is in force issued by companies reasonably satisfactory to Landlord. Landlord shall receive advance written notice from the insurer prior to any termination of such insurance policies.

RENEWAL TERMS. This Lease shall automatically renew for an additional period of three years per renewal term, unless either party gives written notice of termination no later than 180 days prior to the end of the term or renewal term. The lease terms during any such renewal term shall be the same as those contained in this Lease except that the lease installment payments shall be adjusted per agreement of the parties in accordance with changes in the Consumer Price Index.

MAINTENANCE. Tenant shall have the responsibility to maintain the Premises in good repair at all times during the term of this Lease.

UTILITIES AND SERVICES. Tenant shall be responsible for all utilities and services incurred in connection with the Premises.

TAXES. Taxes attributable to the Premises or the use of the Premises shall be allocated as follows:

REAL ESTATE TAXES. Tenant shall pay all real estate taxes and assessments which are assessed against the Premises during the time of this Lease.

PERSONAL TAXES. Tenant shall pay all personal taxes and any other charges which may be levied against the Premises and which are attributable to Tenant's use of the Premises, along with all sales and/or use taxes (if any) that may be due in connection with lease payments.

DEFAULTS. Tenant shall be in default of this Lease if Tenant fails to fulfill any lease obligation or term by which Tenant is bound. Subject to any governing provisions of law to the contrary, if Tenant fails to cure any financial obligation within 5 days (or any other obligation within 10 days) after written notice of such default is provided by Landlord to Tenant, Landlord may take possession of the Premises without further notice (to the extent permitted by law), and without prejudicing Landlord's rights to damages. In the alternative, Landlord may elect to cure any default and the cost of such action shall be

added to Tenant's financial obligations under this Lease. Tenant shall pay all costs, damages, and expenses (including reasonable attorney fees and expenses) suffered by Landlord by reason of Tenant's defaults. All sums of money or charges required to be paid by Tenant under this Lease shall be additional rent, whether or not such sums or charges are designated as "additional rent". The rights provided by this paragraph are cumulative in nature and are in addition to any other rights afforded by law.

LATE PAYMENTS. For any payment that is not paid within 5 days after its due date, Tenant shall pay a late fee of $100.00.

HOLDOVER. If Tenant maintains possession of the Premises for any period after the termination of this Lease ("Holdover Period"), Tenant shall pay to Landlord lease payment(s) during the Holdover Period at a rate equal to 150 % of the normal payment rate set forth in the Renewal Terms paragraph.

CUMULATIVE RIGHTS. The rights of the parties under this Lease are cumulative, and shall not be construed as exclusive unless otherwise required by law.

NON-SUFFICIENT FUNDS. Tenant shall be charged $100.00 for each check that is returned to Landlord for lack of sufficient funds.

REMODELING OR STRUCTURAL IMPROVEMENTS. Tenant shall have the obligation to conduct any construction or remodeling (at Tenant's expense) that may be required to use the Premises as specified above. Tenant may also construct such fixtures on the Premises (at Tenant's expense) that appropriately facilitate its use for such purposes. Such construction shall be undertaken and such fixtures may be erected only with the prior written consent of the Landlord which shall not be unreasonably withheld. Tenant shall not install awnings or advertisements on any part of the Premises without Landlord's prior written consent. At the end of the lease term, Tenant shall be entitled to remove (or at the request of Landlord shall remove) such fixtures, and shall restore the Premises to substantially the same condition of the Premises at the commencement of this Lease.

INDEMNITY REGARDING USE OF PREMISES. To the extent permitted by law, Tenant agrees to indemnify, hold harmless, and defend Landlord from and against any and all losses, claims, liabilities, and expenses, including reasonable attorney fees, if any, which Landlord may suffer or incur in connection with Tenant's possession, use or misuse of the Premises, except Landlord's act or negligence.

DANGEROUS MATERIALS. Tenant shall not keep or have on the Premises any article or thing of a dangerous, flammable, or explosive character that might substantially increase the danger of fire on the Premises, or that might be considered hazardous by a responsible insurance company, unless the prior written consent of Landlord is obtained and proof of adequate insurance protection is provided by Tenant to Landlord.

COMPLIANCE WITH REGULATIONS. Tenant shall promptly comply with all laws, ordinances, requirements and regulations of the federal, state, county, municipal and other authorities, and the fire insurance underwriters. However, Tenant shall not by this provision be required to make alterations to the exterior of the building or alterations of a structural nature.

MECHANICS LIENS. Neither the Tenant nor anyone claiming through the Tenant shall have the right to file mechanics liens or any other kind of lien on the Premises and the filing of this Lease constitutes notice that such liens are invalid. Further, Tenant agrees to (1) give actual advance notice to any contractors, subcontractors or suppliers of goods, labor, or services that such liens will not be valid, and (2) take whatever additional steps that are necessary in order to keep the premises free of all liens resulting from construction done by or for the Tenant.

SUBORDINATION OF LEASE. This Lease is subordinate to any mortgage that now exists, or may be given later by Landlord, with respect to the Premises.

ASSIGNABILITY/SUBLETTING. Tenant may not assign or sublease any interest in the Premises, nor effect a change in the majority ownership of the Tenant (from the ownership existing at the inception of this lease), nor assign, mortgage or pledge this Lease, without the prior written consent of Landlord, which shall not be unreasonably withheld.

NOTICE. Notices under this Lease shall not be deemed valid unless given or served in writing and forwarded by mail, postage prepaid, addressed as follows:

LANDLORD:

7TH STREET PROPERTIES, LLC
Attn: Mr. Frank Ward, Jr.
2401 South Laflin
Chicago, Illinois 60808

TENANT:

TAFT RECYCLING, INC.
Attn: Mr. George Ward
375 W. 7th Street
Orlando, Florida 32824

Such addresses may be changed from time to time by either party by providing notice as set forth above. Notices mailed in accordance with the above provisions shall be deemed received on the third day after posting.

GOVERNING LAW. This Lease shall be construed in accordance with the laws of the State of Florida.

ENTIRE AGREEMENT/AMENDMENT. This Lease Agreement contains the entire agreement of the parties and there are no other promises, conditions, understandings or other agreements, whether oral or written, relating to the subject matter of this Lease. This Lease may be modified or amended in writing, if the writing is signed by the party obligated under the amendment.

SEVERABILITY. If any portion of this Lease shall be held to be invalid or unenforceable for any reason, the remaining provisions shall continue to be valid and enforceable. If a court finds that any provision of this Lease is invalid or unenforceable, but that by limiting such provision, it would become valid and enforceable, then such provision shall be deemed to be written, construed, and enforced as so limited.

WAIVER. The failure of either party to enforce any provisions of this Lease shall not be construed as a waiver or limitation of that party's right to subsequently enforce and compel strict compliance with every provision of this Lease.

BINDING EFFECT. The provisions of this Lease shall be binding upon and inure to the benefit of both parties and their respective legal representatives, successors and assigns.

LANDLORD:
7TH STREET PROPERTIES, LLC

By: _____ Date: May 03, 2004
Frank Ward, Jr.,
Manager

TENANT:
TAFT RECYCLING, INC.

By: _____ Date: May 03, 2004
George Ward,
Secretary

Prepared by and return to:
Susan M. Sweetser
Canaan Title Insurance Agency
1067 Rainer Dr., Suite 1001
Altamonte Springs, FL 32714
407-788-1360
File Number: 04-1310
Will Call No.:

[Space Above This Line For Recording Data]

Warranty Deed

This Warranty Deed made this **3rd** day of **May, 2004** between **Peter Madison and Beverly Madison, husband and wife** whose post office address is **4908 Oak Island Road, Orlando, FL 32809 and 6545 Cay Circle, Belle Isle, Florida 32809**, grantor, and **7TH STREET PROPERTIES, LLC, a Florida limited liability company** whose post office address is **2401 South Laflin Street, Chicago, IL 60608**, grantee:

(Whenever used herein the terms "grantor" and "grantee" include all the parties to this instrument and the heirs, legal representatives, and assigns of individuals, and the successors and assigns of corporations, trusts and trustees)

Witnesseth, that said grantor, for and in consideration of the sum of TEN AND NO/100 DOLLARS ($10.00) and other good and valuable considerations to said grantor in hand paid by said grantee, the receipt whereof is hereby acknowledged, has granted, bargained, and sold to the said grantee, and grantee's heirs and assigns forever, the following described land, situate, lying and being in **Orange County, Florida** to-wit:

Lot 41, Block H, PROSPER COLONY, located in Section 2, Township 24 South, Range 29 East (less the west 40 feet taken by Orange County in O.R. Book 2128, page 687, Circuit Civil Action #71-1123), AND

Lots 42 and 43, less the east 100 feet of lot 43, PROSPER COLONY, Section 2, Township 24 South, Range 29 East, according to the plat thereof as recorded in PLat Book D, pages 100 through 106, Public Records of Orange County, Florida.

Parcel Identification Number: 02-24-29-7268-00-410

Together with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

To Have and to Hold, the same in fee simple forever.

And the grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple; that the grantor has good right and lawful authority to sell and convey said land; that the grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances, except taxes accruing subsequent to **December 31, 2003**.

In Witness Whereof, grantor has hereunto set grantor's hand and seal the day and year first above written.

Signed, sealed and delivered in our presence:

Witness Name: Susan M. Sweetser

Witness Name: KHOA VU

Witness Name: Susan M. Sweetser

Witness Name: KHOA VU

(Seal)
Pete Madison

(Seal)
Beverly Madison

State of Florida
County of Seminole

The foregoing instrument was acknowledged before me this 3rd day of May, 2004 by Pete Madison and Beverly Madison, who [ ] are personally known or [X] have produced a driver's license as identification.

[Notary Seal]

Notary Public

Printed Name: Susan M. Sweetser

My Commission Expires: _____

Susan M. Sweetser
MY COMMISSION # CC964652 EXPIRES
December 12, 2004
BONDED THRU TROY FAIN INSURANCE, INC.

ATTACHMENT C

OPERATIONS PLAN

OPERATIONS PLAN

TAFT RECYCLING, INC.
CLASS I AND CLASS III
WASTE PROCESSING FACILITY
PERMIT MODIFICATION APPLICATION
TAFT, FLORIDA

Prepared for:

Taft Recycling, Inc.
2401 S. Laflin Street
Chicago, Illinois 60608

Prepared by:

HSA GOLDEN
225 East Robinson Street, Suite 100
Orlando, Florida 32801

9/16/04

Project No. 04-297.001

August 2004

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OPERATIONS PLAN

1.0 GENERAL

1.1 PURPOSE

The purpose of this manual is to describe the operation and maintenance procedures for the Taft Recycling, Inc. (TRI) waste processing (Facility) located at 375 7th Street in Taft, Florida. The Facility currently includes processing and storage areas for Class III materials. Materials accepted at the site include yard trash, concrete, asphaltic concrete, wood wastes, building debris, cardboard, carpet, cloth, paper, glass, metal, plastic, waste tires, and furniture. This permit modification proposes to add processing and transfer areas for Class I municipal solid waste (MSW).

1.2 PROCESS OVERVIEW

All waste entering the Facility will follow a process of identification and sorting immediately upon arrival at the site. If the material is unauthorized, the driver will be directed to a solid waste management facility which is permitted to handle the type of material rejected. Appendix A contains a list of typical authorized and unauthorized materials for the proposed modified Facility.

Upon acceptance, the truck will be weighed and directed to the appropriate area where the waste will be placed on an indoor tipping floor. Class I waste will be placed by collection trucks in the Class I area located in the building, processed, and loaded on to transfer trailers for Class I Landfill disposal. The Class III waste will also be placed in the building to undergo sorting operations in the form of placing the waste into a sorter with a conveyor belt where the material will be downsized and hand sorted. Unsuitable materials (i.e. paint containers, oil containers, etc.) will be temporarily stored inside the building and transported off-site for proper disposal. Recoverable (paper, plastic, cardboard, metal, etc.) and recyclable (wood and concrete) materials will be removed for recycling. The cardboard will be placed into a baler, and the wood will be placed in a chipper. Recovered screen materials (RSM) are stored in a covered concrete bin for transport to a Class I landfill for use as daily cover material.

Once the waste has been sorted, unacceptable waste or rejected Class III wastes will be transported to disposal facilities such as those listed in Appendix B.

Facility Operations Flow Charts are included in Appendix C, and site plans in Appendix I.

1.2.1 Waste Quantity Projections

The future demand for recycled and properly disposed Class I and Class III waste material is expected to increase. This is based on the 4 to 5 percent population growth rates for Orange, Osceola, and Seminole Counties. Material types will be limited to the processing capabilities of this site. The three primary operations will be sorting, compacting, and chipping. Estimated demands, may require managing approximately 3,000 cyds (1,000 tons) per average operating day, with a maximum of 4,242 cyds (1,500 tons) per day of Class I and Class III waste. This production rate of 77 to 108 tons per hour is well within the stated equipment capacities. All equipment specified for

this site exceeds this initial anticipated average production rate. The equipment production capacities are 50 tons per hour for the sorter, 20 tons per hour for the cardboard compactor, and a minimum of 32 to 45 tons per hour for the wood chipper, depending on the type of material.

1.3 MANAGEMENT AND OPERATIONS PERSONNEL

Personnel trained for handling and processing of Class I and Class III material will be designated to operate the Facility. TRI will have certified operators on staff. The certifications for the current Facility Manager are provided in Appendix D. The Regional Manager is responsible for overseeing operators of TRI facilities within the region. Overall management of the Facility and general direction of the Facility operations will be the responsibility of the Facility Manager, whose office will be located on-site. The Facility Manager's responsibilities include:

- Managing environmental compliance for the Facility;
- Managing personnel requirements for the Facility, including hiring of supervisory and operating personnel, and providing for their training and orientation;
- Ascertaining the operation and maintenance needs for the Facility;
- Implementation of the Operations and Maintenance Plan for the Facility; and
- Implementation of Equipment Maintenance Plans.

In the absence of the Facility Manager, duties and responsibilities of the Facility will be performed by the Yard Supervisor. The Yard Supervisor's additional responsibilities include:

- Supervising the tipping floor;
- Supervising the placement of materials;
- Supervising heavy equipment operations; and
- Spotting loads.

Spotters will be employed on the tipping floor and as loader operators to pre-check each incoming load for concealed drums and other suspect waste and to handle sorting operations. Support staff, such as sorters, gate attendant and equipment operators will be employed to facilitate operations at the Facility.

1.4 HIRING AND TRAINING PROGRAM

In-house and publicly available training will be obtained to ensure that operators and spotters are properly trained to operate the Facility and to identify and manage unacceptable materials entering the Facility. This plan is designed to fulfill the requirements of F.A.C. 62-701.320(15).

In-house training will be provided on an as-needed basis, generally when new operators and spotters are hired until the required publicly available training is feasible. Any in-house operator training, which includes an examination required by Section 403.716 F.S., will be administered by an independent third party. Publicly available training will be provided on a schedule, which complies, with F.A.C. 62-701.320(15). This will include 16 hours of initial operator training and 8 hours of spotter training to instruct in the proper operation of the Facility and provide instruction in identifying unacceptable materials, especially materials that qualify as a hazardous waste.

Once every three years, each operator will complete 8 hours of additional course work as a refresher to the initial training and to learn new operation procedures and information related to waste identification. Spotters will receive 4 hours of course work every three years as a refresher. The course work will be selected from courses available through the University of Florida TREEO Center that meet the needs of the Facility. Records documenting the above training will be made available for inspection by the Department Staff at the Facility and the office of the Facility Manager. A copy of the training log and a list of approved classes are provided in Appendix D.

1.5 EMERGENCY TELEPHONE NUMBERS

Emergency telephone numbers are included in Appendix E.

1.6 EMERGENCY AND CONTINGENCY PLAN

In the event of inclement weather, accidents, fires, and equipment breakdowns, the appropriate provision of the contingency plan will be implemented immediately. Amendments will be made to this plan if the Facility design, operations or maintenance procedures change.

Incidents, which might require the assistance of outside emergency response agencies, will be handled by conventional means. In the event of a natural disaster, all waste will be transferred off-site, operations at the Facility shall cease, and the Facility shall be evacuated until the Facility Manager has deemed the area safe for contingency operations. The evacuation plan includes gathering all personnel on the site at the main office to account for everyone's whereabouts before dismissing the employees and directing them to leave the property. If time allows, operations will be maintained on a limited basis (no incoming waste), dependent upon the Facility Manager's determination, to allow continued removal of waste and materials off the property .

1.6.1 Inclement Weather Operations

Litter control at the Facility will occur on a continuous basis during operating hours as a component of the site maintenance program. Loose, stock piled materials will be secured to prevent litter during windy events.

1.6.2 Personal Injury Accidents

In the event of a personal injury at the Facility, the nature and extent of the injury will be assessed to the extent possible by the on-site personnel and emergency first aid techniques administered by appropriately trained personnel as necessary. If the injury appears to require professional medical

attention, emergency assistance will be obtained. If the injury requires nonemergency medical attention, the injured party will be transported by conventional means to a place of professional medical care, i.e., hospital, emergency room, doctor's office, or clinic. In all cases, the Facility Manager will be notified.

1.6.3 Vehicular Accidents

In the event of a vehicular accident at the site, a determination will be made regarding the feasibility of safely moving the vehicle(s) under their own power. If possible, the vehicles will be moved out of the way of normal traffic flow. If the vehicles cannot move under their own power and the vehicles are interrupting traffic flow, the vehicles will be pushed out of the way using on-site equipment. The Facility Manager will be notified and arrangements to have the disabled vehicles removed will be made in accordance with the directions of the Facility Manager.

1.6.4 Fire

In case of a fire, a fire hydrant is located near the processing area and fire hose bibs within the building, as shown on the Site Plan, Appendix I. Water service on the site is supplied by the City of Taft. Fire extinguishers will also be located within the processing area and on all equipment. Fire security will be approved by the Orange County Fire and Rescue Division.

Larger fires located anywhere on the site will be sprayed with water. The primary emergency phone number (911) and the Fire Department will be called immediately to respond to all fires.

During a fire, all placement of combustible waste in the immediate area of the fire will be suspended. Placement of combustible waste in the area of the fire can only resume after a thorough inspection by the Facility Manager.

In the event of a fire in or on facility equipment, the following procedures will be followed by the equipment operator or other nearby facility personnel:

- Activate the on-board fire suppression equipment;
- If possible, safely move the equipment away from the fire immediately, shut off the engine, and drop blade;
- Signal other operators in the immediate area of the fire via radio or by hand signals;
- Evacuate the vehicle; and,
- Extinguish any reoccurring fires with the fire suppression equipment on the facility vehicles.

Charged and tested fire extinguishers will be located throughout the Facility, including the tipping floor, maintenance building, office and in some cases, the equipment (i.e., sorter, loaders and trucks) carry them.

There will be no open burning at the Facility. Any accidental fires that take more than one hour to extinguish shall be promptly reported to the County and FDEP.

1.6.5 Hot Loads

Any hot load (of authorized material) identified will be dumped in an area away from the active processing area, see Site Plan. The load will immediately be covered with soil or sprayed with water if a fire is imminent. All run off from hot loads will be directed to the leachate collection trenches. The waste will not be processed until it has cooled completely, and the fire hazard has been mitigated.

1.6.6 Hazardous Waste and Spills

No hazardous wastes are to be accepted at the Facility. The Yard Supervisor, spotters, and equipment operator will be responsible for spotting concealed drums or other suspect wastes. In the event waste materials of questionable nature are unloaded before they are spotted by Facility personnel, the source of the waste will be recorded, and the Facility Manager shall be immediately notified to determine the appropriate action. Typical actions will include: 1) isolation of the waste; 2) temporary storage of small containers in 55-gallon FDOT drum; and 3) uncontainerized wastes shall be isolated in the building and the Department and contractor, such as Safety Kleen, will be called to manage proper waste disposal. All suspect hazardous wastes will be removed from the facility within 5 days.

Despite these precautions, if hazardous waste, fuel, or oil is spilled at the site, absorbent material will be placed to contain the spill. The Facility Manager will be notified immediately in the event a spill occurs. During the operational hours of the Facility, at least one person who is trained in the spill plan procedures will be on-site. In case of a spill, the following spill contingency plan will be implemented.

1. In case of, or as soon as any spill is observed, the source of the spill will be located and actions taken to prevent further spillage, if possible;

2. Valves, pumps, and electrical equipment will be shut off as appropriate;

3. Potential ignition sources will be removed from and restricted from entering the area of the spill;

4. Existing floor drains, sumps, and storm drains will be covered or a temporary dike constructed;

5. Absorbent socks/booms will be used where appropriate. A spill response firm will be contacted, if necessary, to assist in these activities. The spill response firm will provide sampling and analysis for spill cleanup materials;

6. All absorbed material or contained liquid will be removed and packaged in Florida Department of Transportation (FDOT) approved containers (55-gallon drums). Used Absorbent materials should be packaged separately from liquids; and,

7. All containers used for the disposal of petroleum spill response debris will be labeled with type of waste determined by visual inspection and laboratory testing, and the start date of accumulation and disposed in accordance with Federal and State environmental regulations. Debris from large spills will be removed immediately by the spill response firm. Debris from small spills will be kept in one 55-gallon drum, in the processing area, for no longer than 30 days.

The following spill clean up equipment will be maintained at the Facility:

- Spill response kit capable of containing a spill of at least 25 gallons will be located in the processing area. This kit includes absorbent spill pads, socks, and/or booms;
- An adequate amount of nitrile gloves, nitrile or rubber boots and other personal protective equipment;
- First aid kit and eye wash; and,
- Fire extinguishers.

1.6.7 Equipment Failure

Sufficient backup equipment will be available for equipment breakdowns and downtime for normal routine equipment maintenance. In case of major equipment failure (both primary and backup equipment fail) the following procedures will be followed:

1. Arrangements with contractors and rental equipment dealers will be made to furnish equipment on a short-term basis. Equipment will be available within one to two hours; and,

2. Applicable Facility operations will cease until equipment capacity is retained by renting the necessary equipment.

1.7 WASTE–TYPE CONTROL PLAN

Emphasis will be placed on controlling the types of waste unloaded within the Facility. Each load will be visually screened, to the maximum extent practical, by the Yard Supervisor for unauthorized wastes (batteries, drums, gas cans, oil cans, paint cans, etc.) before unloading.

A 4-foot by 8-foot painted sign will be constructed at the entrance to the Facility, which will indicate the types of waste allowed, see Appendix F. The sign will include a notice that attempting to unload unauthorized waste will result in the delivery personnel having to reload the waste and remove the waste from the site.

TRI will have two full-time spotters/equipment operators, one on each tipping floor, when waste is received and processed who will be trained in identifying hazardous waste and wastes unsuitable for acceptance at the Facility.

In the event waste not suitable for processing within the Facility is observed by any spotter, sorter, or equipment operator, the spotter, sorter, or equipment operator will be responsible for isolating the suspect waste. The rejected waste will be loaded into the proper transport vehicle for disposal off-site and recorded in a log, see Log Form in Appendix G.

Reasonable effort will be made to prevent the delivery of unauthorized waste to the Facility. In the event unauthorized waste is delivered to the Facility, it will be handled in accordance with applicable laws. Unauthorized waste will not be processed at the Facility.

Pressure-treated lumber (i.e. treated with chromated copper arsenate (CCA) will not be recovered from the waste stream for chipping or mulching, but will be transported for proper disposal. The CCA treated wood will be either identified by waste type (fencing or decking) or by the distinctive greenish color.

1.8 WEIGHING AND MEASURING INCOMING WASTE

All incoming waste will be weighed prior to processing at the Facility. TRI will retain all records at the Regional Facility's administrative office for a minimum of three (3) years.

The records will be available to the FDEP personnel upon request. Report outputs can include daily, month-to-date and year-to-date totals of waste received.

1.9 SIGNS AND VEHICLES TRAFFIC CONTROL

Ingress and egress to the Facility will be limited to 7th Street. A sign will be located at the entrance gate stating facility name, hours of operation, acceptable/unacceptable wastes, and emergency phone numbers. Additional interior signs will be used to direct traffic to the appropriate tipping areas. The entrance road exists from the Facility entrance gate located near the northwest property comer and extends through the scale to the building and around to the exit located at the northeast comer. Transfer trailers will enter near the northeast comer, pass through the building and exit either at the southwest comer or will continue around the site to the exit near the northeast comer. The entrance and exit roads will be accessible in all weather conditions. Lockable gates will control access to the site.

TRI personnel will direct incoming truck traffic to expedite safe movement of vehicles within the Facility. Traffic will be directed as necessary to prevent dangerous traffic conditions and to assure that any back up of in-bound vehicles is kept off of the public right–of–way.

1.10 ODOR

Action shall be taken to prevent fugitive odors and particulates from creating nuisance conditions. These steps include the following:

- Rejection of unacceptable waste that would create odors;
- Removal from the site of putrescible or other rejected waste that could cause odor problems within 48 hours;
- Cleaning of the MSW tipping floor daily;
- Active management of recycled materials; and,
- Use of odor masking agents, if necessary.

1.11 DUST

The following steps will be taken to minimize fugitive dust emissions at the Facility:

- Sprinkling roadways, stockpile areas, and processing areas with water as necessary.

1.12 LITTER

The site will be inspected daily for litter. Litter will not be allowed to accumulate and will be picked up daily (or as often as necessary) and put into appropriate containers for proper disposal. Litter fencing will be constructed to control blowing litter around the building, wherever feasible.

1.13 VECTOR CONTROL

The following steps will be taken to minimize vectors at the site:

- Unacceptable wastes will not be accepted at the recycling Facility;
- Rejected wastes will be promptly removed and disposed of at an appropriate disposal facility. Rejected waste will be removed within one week;
- Class I waste will be disposed off-site within 48 hours;
- Non-active portions of the site will be kept mowed and free from debris accumulation; and,
- If needed, pesticides will be used in accordance with Florida Department of Agriculture rules and standards.

1.14 HOURS OF OPERATION

The Facility will be open up to 24 hours per day, 7 days a week. Although, typically the facility will be closed on Sundays. During non-day light hours, lighting will be provided by 400-watt, building and 1000–watt yard lights in the processing area. All lights will be weather proof and sealed to prevent a dust explosion, see Appendix H for lighting details.

1.15 ACCESS CONTROL AND SITE SECURITY

Access to the Facility will be controlled by a 6-foot chain link fence. Security will be maintained by locking the entrance and exit gates during any times the Facility is not operating. Semi-annual inspections of the wall and fence will be conducted to identify locations in need of repair.

1.16 EQUIPMENT AND OPERATION PROCEDURES

The Facility tipping floor operation is expected to operate with the following equipment:

- Front-End Loader - (2)

The recycling operation is expected to operate with the following equipment:

- Fork Lift - Primary;
- Front-End Loader - (1) Primary;
- Front-End Loader - Back-up;
- Excavator - Primary;
- Tromell Screen - Primary;
- Sorting Line - Primary;
- Compactor - Primary;
- Horizontal Portable Grinder - Primary;
- Transfer Trucks - Primary;
- Misc. Roll–Off Containers/Bins (15).

All of the equipment on the site will be owned by TRI. Details on the loaders, excavator, compactor, and tub grinder (chipper) are provided in Appendix H.

Where appropriate, equipment will be fitted with safety cabs, fire extinguishers, and radio communication equipment. The radio equipment will also be stationed in the administrative offices located on-site, along with telephone service.

The on-site administrative offices will include potable water, sanitary facilities, emergency firstaid supplies, telephone, fax, and electricity. The building also will provide shelter for employees during inclement weather conditions.

Maintenance to the equipment will be performed by an off–site mobile contractor.

1.17 NOTICE OF VIOLATION

The Facility Manager will provide immediate notice to the Regional Manager, in the event TRI is notified by Federal, State or local governmental agencies or officials regarding violations of any permits or approvals held by TRI relating to the operation and use of this Facility. The Regional Manager will respond appropriately to the various agencies, and immediately correct the non–compliance item.

2.0 CLASS I AND CLASS III OPERATIONS

2.1 PURPOSE

The Facility processes the incoming material to remove that portion of the waste that has an end–use market. Residuals from the recycling facility are disposed of at appropriate disposal facilities.

2.2 START UP AND SHUT DOWN PROCEDURES

Start-up procedures will consist of the Facilities Manager inspecting the processing and storage areas for safety purposes. Equipment will be turned on and allowed to warm up if necessary. Storage bins will be inspected to verify ample storage capacity for the day's activities. In the event that the storage capacity is inadequate, additional sorting will cease until the existing stored materials have been removed for resale.

The Facility plans to clear the tipping floor of Class I wastes each day, to the extent possible. However, the Facility anticipates receipt of Class I waste from evening pick-up routes and therefore may have Class I waste on the tipping floor at any given time. Under no circumstances will any Class I wastes remain on the tipping floor for more than 48 hours. Odor control, such as odor masking agents will be used if deemed necessary. Any unprocessed Class III material will be left on the tipping floor for next day's processing. The processed material will be contained within the confines of the designated storage bins.

2.3 SORTING OPERATIONS

Within the Class III processing area, an excavator and front-end loaders equipped with buckets or clamps will place the material into a sorting machine. Personnel will be available to hand sort the materials once the machine has removed the fines and reduced the material size. Sorted material will be placed in appropriate bins for recycling or transport vehicles for disposal off-site. Bins will be used in the sorting process (glass, paper, plastic, metal, wood, concrete, cardboard, and RSM (fines). RSM will be sampled in accordance with the FDEP's guidelines for reuse, or disposed of at a Class I landfill. It will be kept in a covered bin, as shown on the Site Plan.

Personnel will operate on an 8 to 10 hour shift with a lunch break in between and will be on the tipping floor at all times when waste is received or processed.

2.4 LEACHATE COLLECTION AND DISPOSAL

The Class I tipping floor is enclosed within a 120 ft by 60 ft portion of the building, see Site Plan, Attachment C. This area of the building has a minimum 6–inch impervious concrete floor and leachate collection and will be washed daily, or as necessary. The leachate collection clean-out covers will be opened during washing. Water shall be directed into the building from the open wall area (east side) to ensure that none of the water leaves the building. Leachate will be collected from this area and the transfer truck scale tunnel through drains and will be discharged to a lift station and storage tank. The trench drains or catch basins will be cleaned daily to prevent clogging, see Appendix H.

The Class III concrete tipping floor is enclosed within a 150 by 75 foot portion of the building. No water will be involved in the processing of the material. Leachate collection is proposed in this area to collect any stormwater that may enter due to the open door on the east side and liquids that may leak from the vehicles. To keep this area clean and free of excess debris, all open floor areas in this portion of the building will be swept weekly. The leachate storage tank will have a high level alarm and will be pumped out by an industrial waste hauler as needed.

Manifests of all waste leachate removals will be maintained by TRI.

2.5 PROCESSED/UNPROCESSED MATERIAL DISPOSAL PLAN

The processed (recycled/recovered) material is sold to a variety of different companies for many different uses. The most common uses are described below. After processing, wood waste will be chipped and sold for fill or mulch. Concrete will be crushed offsite and sold. Cardboard and paper will generally be sold to a paper mill. Metal will be sold to scrap metal dealers, and glass will be crushed offsite and sold for fill material. Plastic will be sold to companies capable of recycling mixed plastic and the recovered screened material will be sold for daily cover material. The quantity and maximum storage time for each material is listed in the table in Appendix B.

Class I waste will be placed into larger transport trailers for disposal at a Class I landfill. Unprocessed Class III materials will be placed in a waiting transport vehicle for later disposal at a Class III landfill.

2.6 EQUIPMENT OPERATIONS AND MAINTENANCE MANUAL

Operations and maintenance for each piece of equipment will be in accordance to manufacturer's recommendations and manuals.

2.7 SAFETY PROCEDURES FOR VEHICLES

TRI personnel will direct incoming truck traffic to expedite safe movement of vehicles within the Facility. Traffic will be directed as necessary to prevent dangerous traffic conditions and to assure that any back up of in-bound vehicles is kept off of the public right–of–way.

2.8 STORMWATER MANAGEMENT

The Facility Manager will perform weekly inspections of the stormwater management system. Any required maintenance or repairs will be made within seven days. A copy of the current FDEP stormwater permit is included as Attachment G of this application. This permit is in the process of modification to manage the proposed additional impervious areas.

2.9 RECORD KEEPING/SUBMITTALS

Record submittal requirements for the Recycling Facility will be in compliance with the FDEP requirement for these facilities.

Operational records shall include a daily log of: 1) quantities and types of solid waste received; 2) quantity of solid waste processed; 3) quantity of solid waste stored; and 4) quantity of solid waste removed from site for recycling or disposal. These records/logs will be compiled monthly and made available for Department inspection at the facility.

The reporting requirements include submitting a report annually (by April 1) which summarizes the amounts and types of waste received and the amounts and types of wastes disposed of or recycled. The annual report will be submitted on the FDEP Form 62-701.900(7), per F.A.C. 62-701.710(9).

3.0 CLOSURE PLAN

The closure of the Facility will include removal of the operational equipment, which is completely mobile by design. Any remaining materials will be removed and hauled to an appropriate processing site or landfill. To protect the State from bearing the cost of potential cleanup activities, an insurance policy in the amount as shown in Attachment D will be posted at the time of permitting. The purpose of the Policy is to provide for cleanup of the site, if the permittee does not perform.

The approved closure steps include notifying the Florida Department of Environmental Protection (FDEP) at least 180 days prior to closure. The cleanup is to be completed within 30 days of the final close date. Closure will be completed within 180 days after the final waste load is received. At that time, a closure report is to be issued to the FDEP to allow time for a site inspection and closure certification.

APPENDIX A

AUTHORIZED / UNAUTHORIZED MATERIALS

TAFT REYCLING, INC.
WASTE PROCESSING FACILITY
AUTHORIZED/UNAUTHORIZED SOLID WASTES

Typical unauthorized solid wastes include:	*Typical authorized wastes:*
• Hazardous wastes.	• "Class I waste" means solid waste which is not hazardous waste, and which is not prohibited from disposal in a lined landfill under Rule 62-701.300, F.A.C.
• Chemicals/solvents.	• "Commercial solid waste" means all types of solid waste generated by stores, offices, restaurants, warehouses, and other non-manufacturing activities, excluding residential and industrial wastes.
• Paint containers or paint.	• "Household waste" means any solid waste, including garbage, trash, and sanitary waste in septic tanks, derived from households, including single and multiple residences, hotels and motels, bunkhouses, ranger stations, crews quarters, campgrounds, picnic grounds, and day-use recreation areas.
• Biomedical wastes.	• "Garbage" means all kitchen and table food waste, and animal or vegetative waste that is attendant with or results from the storage, preparation, cooking, or handling of food materials.
• Lead-Acid Batteries.	• "Class III waste" means yard trash, construction and demolition debris, processed tries, asbestos, carpet, cardboard, paper, glass, plastic, furniture other than appliances, or other materials approved by the Department that are not expected to produce leachate which poses a threat to public health or the environment.
• Fluorescent light bulbs.	• "Clean wood" means wood, including lumber, tree and shrub trunks, branches, and limbs, which is free of paint, glue, filler, penthachlorophenol, creosote, tar, asphalt, other wood preservatives or treatments.
• Used Oil.	• "Construction and demolition debris" means discarded materials generally considered to be not water soluble and non-hazardous in nature, including but not limited to steel, glass, brick, concrete, asphalt material, pipe, gypsum wallboard, and lumber, from the construction of destruction of a structure as part of a construction or demolition project or from the renovation of a structure, including such debris from construction of structures at a site remote from the construction or demolition project site. The term includes rocks, soils, tree remains, trees, and other vegetative matter which normally results from land clearing or land development operations for a construction project; clean cardboard, paper, plastic, wood, and metal scraps from a construction project.
• White goods.	• "Land clearing debris" means rocks, soils, tree remains, trees, and other vegetative matter which normally results from land clearing or land development operations for a construction project. Land clearing debris does not include vegetative matter from lawn maintenance, commercial or residential landscape maintenance, right–of–way or easement maintenance, farming operations, nursery operations, or any other sources not related directly to a construction project.
• Appliances	
• Non–containerized liquids	
• Containers or tanks with liquids	

080404

APPENDIX B

MATERIAL DISPOSITION

MATERIALS DISPOSITION
TAFT RECYCLING, INC.
TAFT, FLORIDA

Material Type	*Maximum Storage Quantity*	*Density (lbs/CY)*	*Covered or Uncovered*	*Method of Storage*	*Disposal/Recycling Location*	*Maximum Hold Time*
Unprocessed Class III	700 CY	400	Covered	Tipping Floor	Class III Landfill	1 Week
Unprocessed C&D	700 CY	667	Covered	Tipping Floor	C&D Landfill	1 Week
Yard Trash	1,000 CY	296	Uncovered	Outside Bin	Re-Sale Public	6 Months
Recovered Concrete	200 CY	4,000	Uncovered	Outside Bin	Re-Sale Public	6 Months
Asphaltic Concrete	200 CY	1,380	Uncovered	Outside Bin	Re-Sale Public	6 Months
Roofing Tiles	200 CY	2,000	Uncovered	Outside Bin	Re-Sale Public	6 Months
Recovered Cardboard	60 CY	100	Uncovered	Outside Bin	Re-Sale Public	6 Months
Paper	60 CY	600	Covered	Outside Bin	Re-Sale Public	6 Months
Metal Ferrous	60 CY	400	Uncovered	Outside Bin	Re-Sale Public	6 Months
Metal Aluminum	60 CY	250	Uncovered	Outside Bin	Re-Sale Public	6 Months
Glass	60 CY	1,000	Uncovered	Outside Bin	Re-Sale Public	6 Months
Plastic	60 CY	75	Uncovered	Outside Bin	Re-Sale Public	6 Months
Recovered Wood	1,000 CY	600	Uncovered	Outside Bin	Re-Sale Public	6 Months
Tires	30 CY	100	Covered	Roll–off	Tire Recycler	30 Days
Class I Putrescible	1,200 CY	500	Covered	Trailers or Tipping Floor	Class I Landfill	48 Hours
Waste Oil/Hazardous Waste-Rejected	55 Gallons	8 lbs/gal	Covered	Inside Building	Safety Kleen	30 Days
RSM	100 CY	1,000	Covered	Covered Bin	Class I Landfill	6 Months

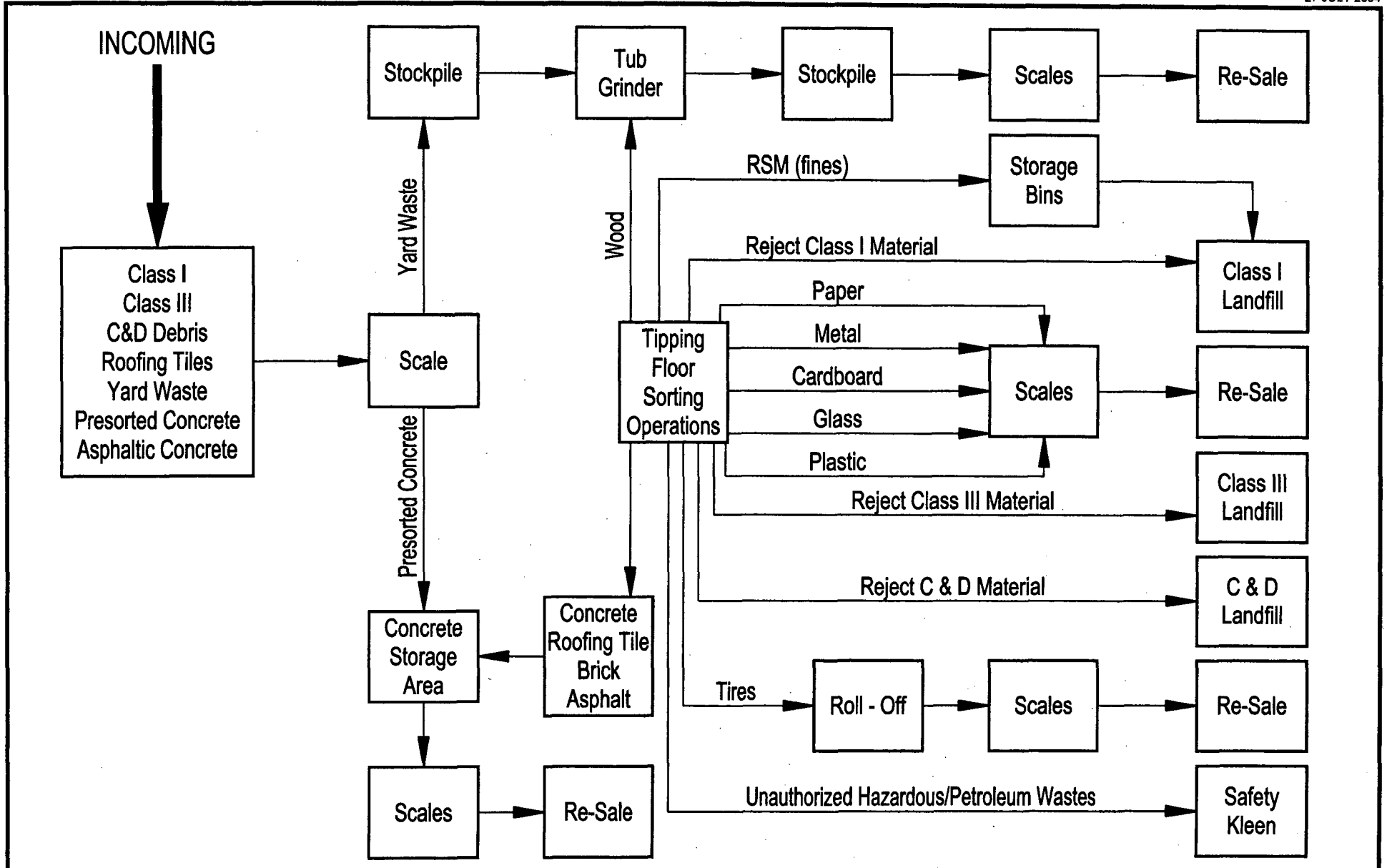
Note: Storage Location of Material is shown on the Site Plan.

APPENDIX C

FACILITY OPERATIONS FLOW CHART

04297001F02.DWG
04-297.001

27 JULY 2004



APPENDIX C

HSA Golden

DATE: AUGUST 2004
SCALE: N.T.S.
DRAWN BY: D.R. DAVIS

FACILITIES OPERATION FLOW CHART
TAFT RECYCLING, INC.
TAFT, FLORIDA

APPENDIX D

TRAINING LOG

TAFT RECYCLING, INC.
TAFT, FLORIDA

TRAINING LOG

COURSE	TRAINED OPERATOR INSTRUCTOR	HRS. ATTENDED	SIGNATURES/ DATE

Training Requirements

To meet the training requirements of FAC 62-701, Operator(s) or Spotter(s) must successfully complete an approved initial training course, and be in attendance for entire course. Operators must pass exam (70% or higher).

Classification	Initial Course	Continuing Education
Landfill - Class I, II, III/C&D	24 hours	16 hours
Transfer Station/MRF	16 hours	8 hours
Landfill Clearing Debris Facility	no operator training required	no training required
Spotter of all Facilities	8 hours	4 hours

Continuing Education Hours Awarded

	Courses	I II III	C&D	Transfer	MRFs	Spotter
Initial Operator	✷ Construction & Demolition Debris Landfill Short Course	16	16			
	✷ SWANA-Manager of Landfill Operations [MOLO®]	16	16	8	8	
	✷ SWANA-MOLO® Exam					
	✷ SWANA-Recycle Mgr Exam					
Initial Spotter	✷ 19-Hour Initial Training for Transfer Station & MRF Oper	10	10	8	8	4
	✷ 8-Hour Spotter Training for I,II,III, C&D,TS Mgmt Facilities	8	8	8	8	8
	Spotter Training for Solid Waste Facilities	8	8	8	8	8
	✷ Training for Spotters at LDF, C&D Sites and TS	8	8	8	8	8
	Waste Screening & Identification for LDF Operators & Spotters	8	8	8	8	8
Manager/Engineer	Landfill Design and Construction	28				
	Leachate and Gas Management System Design	15				
	Old Landfills Seminar	5	5			
	Laws and Rules for Florida Engineers					
	Health & Safety Training for HazMat: 40 Hr OSHA	8	8	8	8	
	Hazardous Waste Regulations for Generators	4	4	4	4	4
	US DOT Hazardous Materials / Waste Transportation	6	6	6	6	
Continuing Education	Hazardous Materials in C&D Waste	4	4			
	Groundwater Issues for Landfill Operators	6	6			
	Management of Leachate, Gas, Stormwater & Odor	8	8			
	Asbestos Awareness for Landfill Operators	4	4	4	4	4
	Construction and Demolition Waste Recycling	7	7		7	7
	✷ SWANA - Managing MSW Recycling Systems	7	7	7	7	
	✷ SWANA - Household Hazardous Waste	15	15	15	15	15
	✷ Measurement and Calculations for Operators	5	5			
	Two-Hour Spotter Refresher Online	2	2	2	2	2
	Health & Safety Training for Landfills Operations	5	5	5	5	5
	Hazardous Materials in C&D Waste Online	4	4			
	HazWoper 40hr OSHA Online	8	8	8	8	
	HazWoper 8hr Refresher Online	4	4	4	4	4
Other Courses	Permit Required Confined Space Training	8	8	8	8	
	Excavation and Trenching Competent Person	8	8			
	Chemistry for Environmental Professionals	8	8	8	8	8
	Pumps and Pumping	16	16	16	16	
	Health & Safety Training for HazMat: 8 Hour OSHA	4	4	4	4	2
	Introduction to Electrical Maintenance	16	16	16	16	

✷ Courses offered in cooperation with SWANA - Florida Chapter.

If you do not have a copy of "Florida's Solid Waste Management Facility Operators & Spotters Training Requirements Guide," visit www.treeo.ufl.edu/sw/TrainingRequirements.pdf for the most up-to-date information on training requirements. New Operators and Spotters this is the guide you will need to use in planning your continuing education training. Please visit http://landfill.treeo.ufl.edu/ for additional solid waste training information and the solid waste database.

Solid Waste Courses Coordinator

Dawn Jenkins, University of Florida TREEO Center, 3900 SW 63rd Blvd., Gainesville, FL 32608, (352) 392-9570 ext. 127, FAX: (352) 392-6910, djenkin@treeo.doce.ufl.edu, www.treeo.ufl.edu.

UF/TREEO Hires Full-Time Instructor

Chris J. Roeder, senior training specialist, recently came to the University of Florida TREEO Center from the Florida Department of Environmental Protection where he was an engineer in the solid waste section. Chris was with the DEP for more than 20 years, primarily in compliance, enforcement and permitting for the air and domestic waste sections as well as solid waste.

At the DEP Gainesville branch office, Chris developed and implemented innovative compliance strategies for solid waste facilities, and he was a founding member and past chairman of the Environmental Crimes Task Force, working closely with law enforcement on several key environmental investigations. Chris is an active member of SWANA and has been certified by the U.S. Environmental Protection Agency in hazardous waste response and source sampling methods. While with the DEP, he often presented public outreach and training on environmental rules and regulations, including sections in several UF/TREEO courses.

Chris is available to provide spotter and other customized solid waste training. Contact Chris at (352) 392-9570 x103 or croeder@treeo.doce.ufl.edu.

Kohl Consulting Inc.

Is Proud to Certify That

Steve Orr

Has Successfully Completed the
Initial Training Course for
Transfer Station and MRF Operators Entitled :

19-hour Initial Training for Transfer Station
and Materials Recovery
Facility Operators (with Exam)
January 23rd and 24th, 2003

And Has Successfully Completed the Required Examination
in Accordance with the Training Requirements
for Waste Processing Facility Operators in Florida

Signed this 8th Day of February, 2003

Chris S. Kohl

President

UNIVERSITY OF FLORIDA

TREEO CENTER

Center for Training, Research and Education for Environmental Occupations

certifies that

Bryan Manning

attended

19-Hour Initial Training Course for Transfer Station Operators and MRF Operators

November 18-19, 2003

and is awarded this

Certificate of Attendance

Date issued: 11/19/03
CEU's : 1.9

Passed Exam with 70% or higher Proficiency

William T. Engel, Jr., Ph.D.
Director

UNIVERSITY OF FLORIDA

TREEO CENTER

Center for Training, Research and Education for Environmental Occupations

certifies that

Tony Santaniello

attended

19-Hour Initial Training Course for Transfer Station Operators and MRF Operators

November 18-19, 2003

and is awarded this

Certificate of Attendance

Date issued: 11/19/03
CEU's : 1.9

Passed Exam with 70% or higher Proficiency

William T. Engel, Jr., Ph.D.
Director

APPENDIX E

EMERGENCY TELEPHONE NUMBERS

TAFT RECYCLING, INC.
EMERGENCY TELEPHONE NUMBERS

Organization	*Phone Number*
Primary Emergency Response	911
Fire Department	(407) 836-9000
Hazard Response - Safety Kleen	(407) 321-6080
Police - Orange County Sheriff	(407) 836-3700
Facility Manager - Tony Santaniello	
Office	(407) 851-0074
Bill Condron - Regional Manager	
Office	(312) 942-0042
Mobile	(312) 405-1085
Florida Department of Environmental Protection - James Bradner	(407) 894-7555

APPENDIX F

SIGNAGE

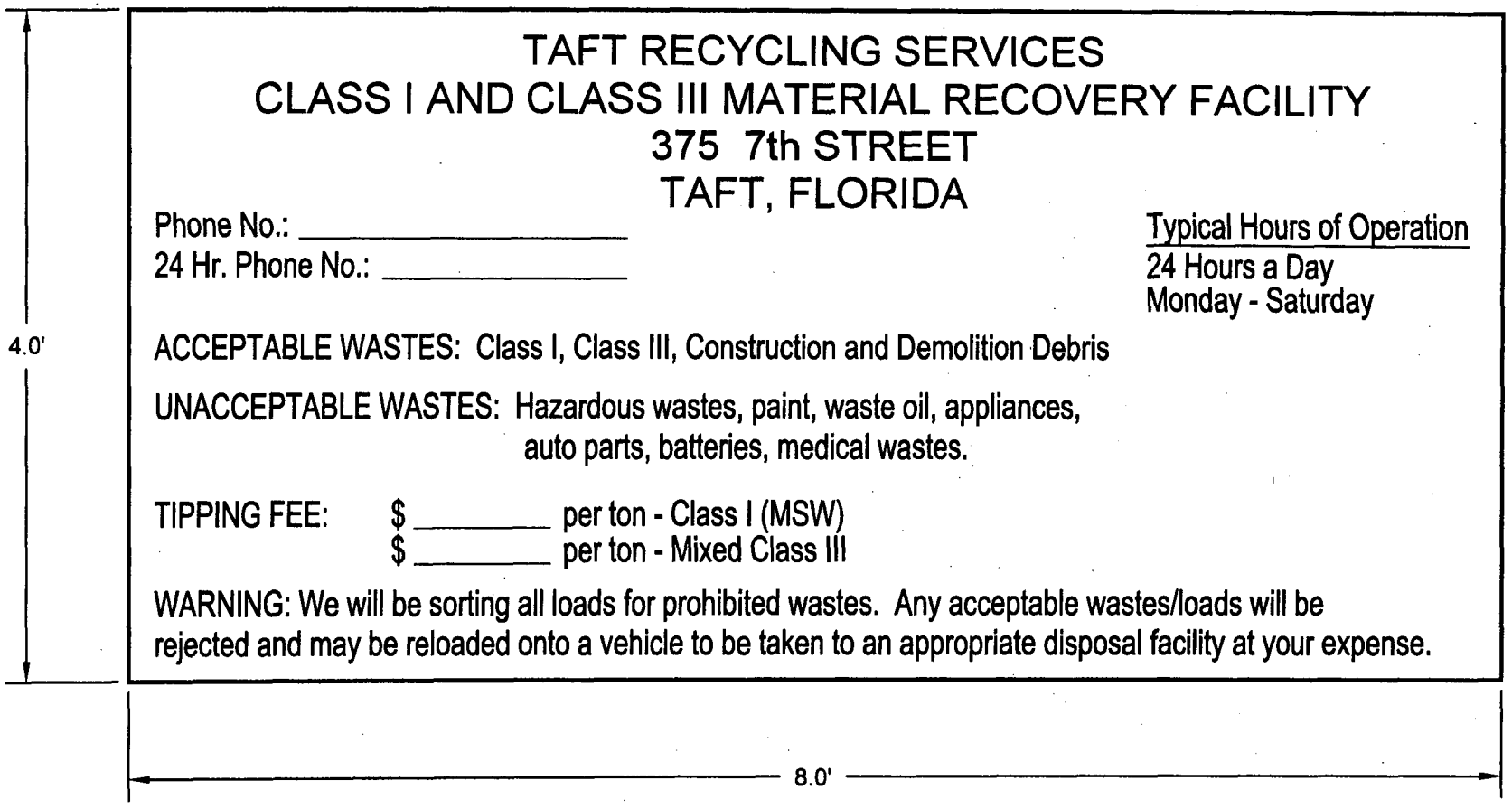


FIGURE F-1

HSA Golden

DATE: AUGUST 2004
SCALE: 1"= 1'-0"
DRAWN BY: D.R. DAVIS

PROPOSED GATE SIGN
TAFT RECYCLING, INC.
TAFT, FLORIDA

APPENDIX G

UNAUTHORIZED WASTE LOG

TAFT RECYCLING, INC.
TAFT, FLORIDA

UNAUTHORIZED WASTE RECEIPT LOG

1. DATE: _____

2. TIME: _____

3. COMPANY: _____

4. VEHICLE INFORMATION: A) TRUCK # _____

   B) LICENSE PLATE # _____

5. NAME OF DRIVER: _____

6. SOURCE OF UNAUTHORIZED WASTE MATERIAL: _____

7. DESCRIPTION OF UNAUTHORIZED WASTE MATERIAL: _____
   _____
   _____

8. WHAT PROCEDURES WERE FOLLOWED FOR PROPER DISPOSAL/REMOVAL FROM THE SITE? _____
   _____
   _____
   _____
   _____

9. OTHER OBSERVATIONS: _____
   _____

10. SPOTTER SIGNATURE: _____
    SIGNED

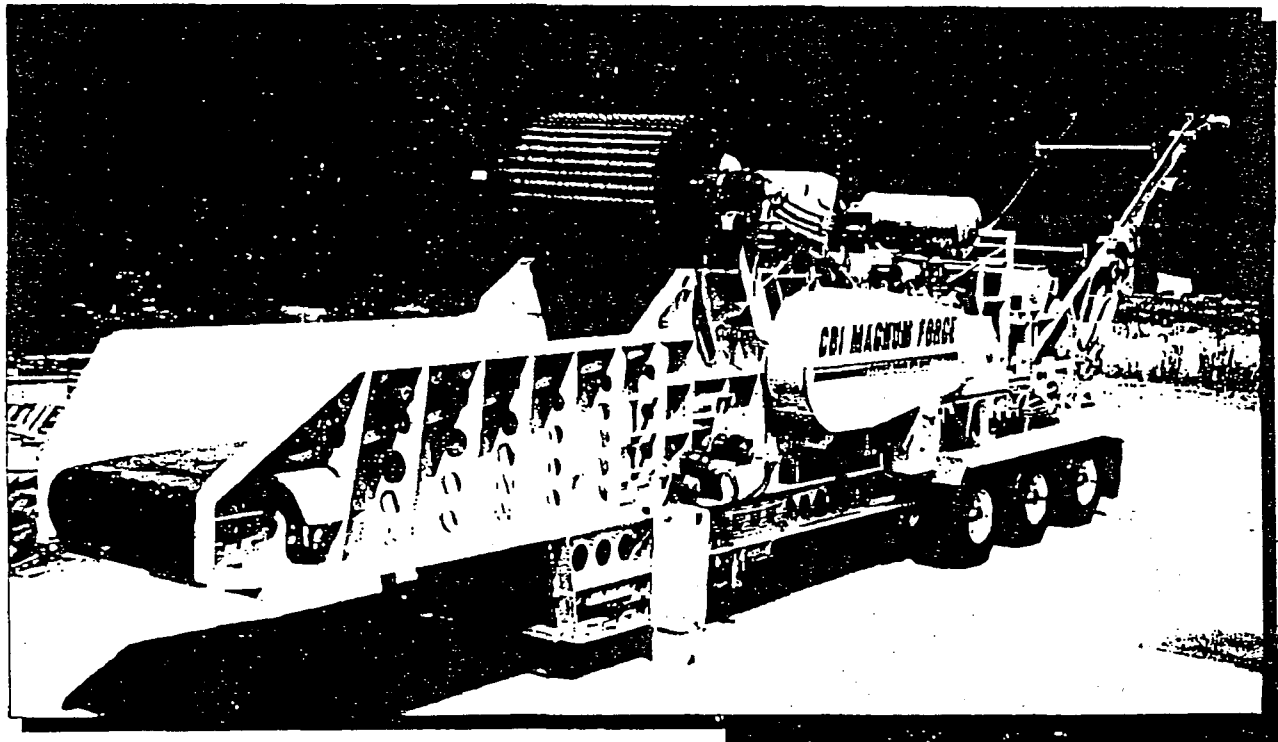
Note: Forms must be maintained in Unauthorized Waste Receipt Log Book

APPENDIX H

EQUIPMENT CUT SHEETS

CBI MAGNUM FORCE

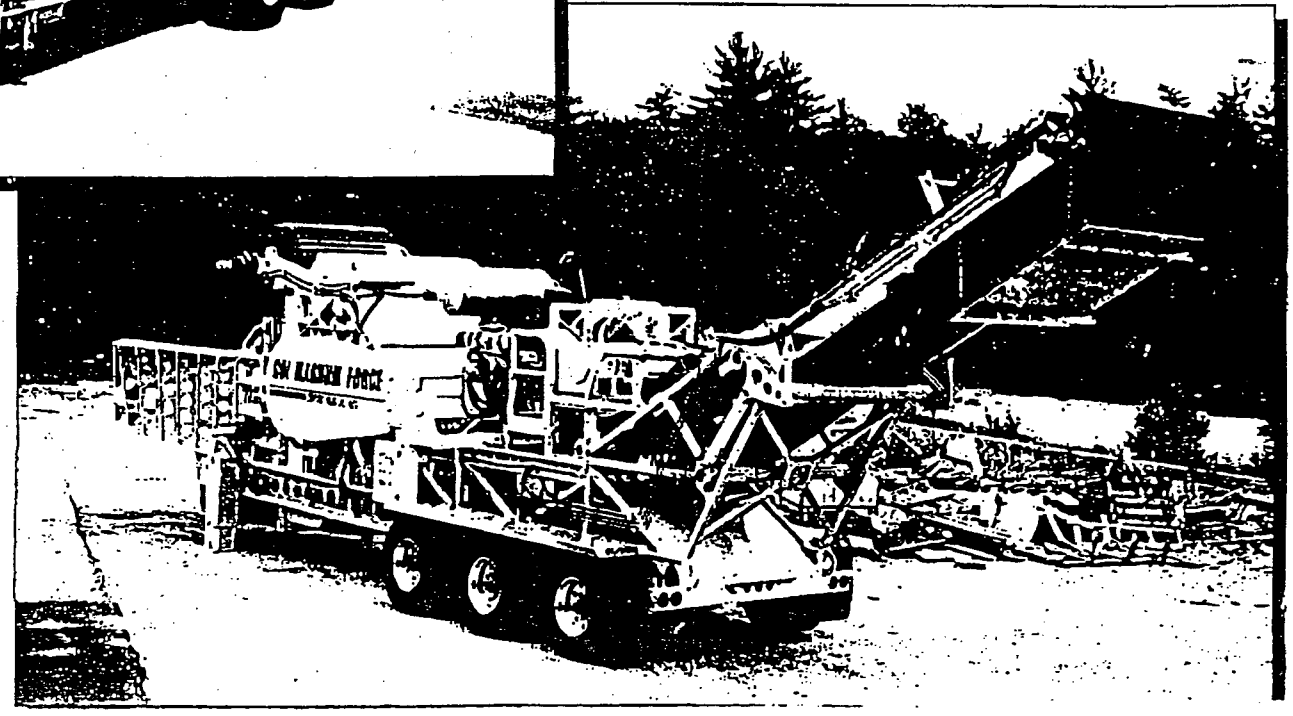
Series 4800 HZ Hog



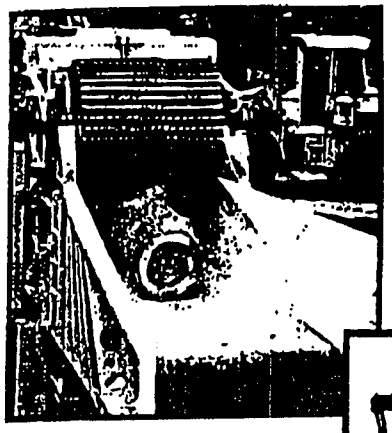
The ultimate land clearing machine grinds full length trees, stumps, and brush at an unbeatable throughput rate. Easily transportable both on and off the road. Safe to operate– no flying debris.

BUILT TO PROCESS HIGH VOLUMES OF:

- Stumps
- Logs
- Yard Waste
- Contaminated C & D
- Poles & Ties, Etc.
- Tolerant to Rock, Dirt & Metal



Eliminate chippers - Grind trees and stumps into valuable mulch for greater profits!



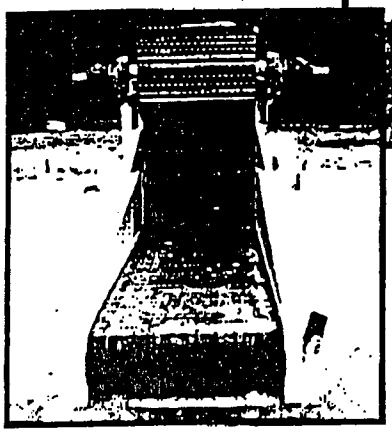
FEED SYSTEM: Two extremely rugged feed rollers, upper and lower, powered by three heavy-duty high-torque planetary gear drives provides continuous positive feed of logs, stumps and brush, etc.

Upper roller's crushing force is adjustable by radio control.

Built-in pre-screener allows abrasive fines to by-pass hog and extend wear component life.

Load-regulated feed system.

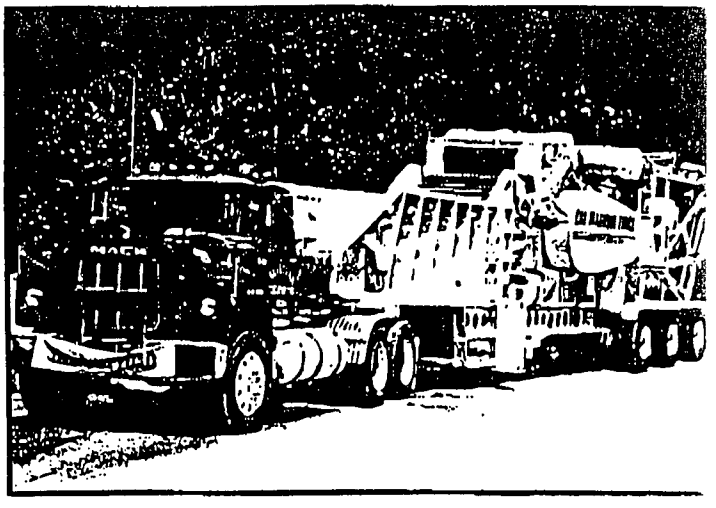
DISCHARGE: 60" wide discharge conveyor, heavy-duty construction; 17' discharge height. Magnetic head pulley available.



ROTOR: 48" diameter, 19,000 lb. solid steel rotor with our unique patented off-set helix design that cuts from left to right and right to left at half the RPM of a conventional hammermill. A design that is tolerant to rock, dirt, and metal, provides exceptional long wear life. Bolt-on striker bars for ease of maintenance.

FEED HOPPER: Open ended with ex large capacity accepts large surges a full-length material.

CHAMBER: Specially designed hog chamber with full access in front and back; bolt-in liners throughout; tremendously stout grate and anvil frame with shear pin release system for full component protection; bolt-in heavy-duty thick grate liner.



POWER: 880-1000 HP CAT.

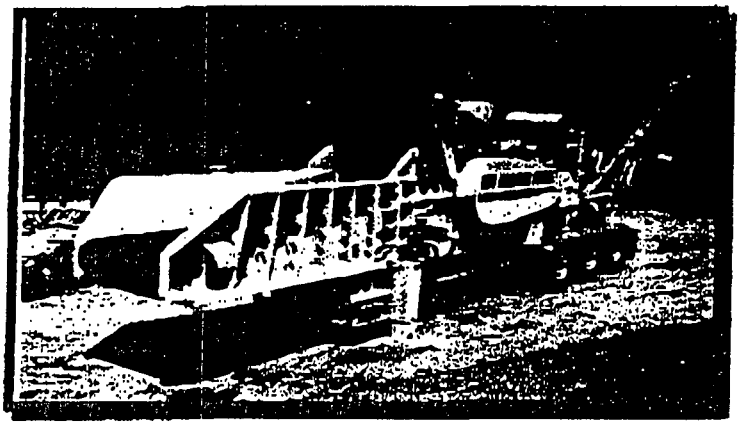
ELECTRICAL: Radio remote control for all functions with full independent mechanical backup.

Distributed by:

Gil Fredsall 1-800-591-

Continental Biomass Industries, Inc.
Manufacturers of Stationary and Portable Biomass Recovery Systems
22 Whittier Street, Newton, NH 03858
Tel. 603-382-0556 Fax 603-382-0557 John Cle

Continental Biomass Industries, Inc.



CBI MAGNUM FORCE
Model 4800

RETAIL PRICE SHEET
Effective June 16, 1999
(F.O.B. Newton, NH)

BASE PRICE: $477,900.00

OPTIONS:

Flexxaire Fan	$11,800.00
Magnetic Head Pulley	$ 7,800.00

HOG:

- Heavy-duty reinforced housing with bolt-in replaceable wear liner;
- 48" diameter x 60" long solid steel offset helix rotor with 4 rows of bolt-on tungsten imbedded hammers;
- 7" shaft and bearings;
- Heavy-duty swing-away grate frame with grate liner and cutting anvil held in place with shear pin for rotor protection;
- Weight of hog with rotor, shaft, bearings and grate, 40,000 lbs.

INFEED SYSTEM:

- 16' x 60" Feed Conveyor with high sides; impact plate in bottom; 18" head and tail pulleys; 440, 4-ply belt; hydraulic drive through gearbox.
- 50" diameter upper feed roller with 4" shaft, bearings, two high torque planetary gear drives with 2000 series Char Lynn motors and hydraulic up and down pressure.
- 18" diameter bottom feed roller; 3" shaft, bearings, high torque planetary gear drive with 2000 series Char Lynn motor.

ENGINE:

- Caterpillar 3412 Diesel Engine rated, 880 HP at 2250 RPM;
- Twin Disc model 318 extra heavy-duty PTO clutch with outboard support bearing;
- Donaldson Air Filtering System with Turbo Two Pre-Cleaners;
- 8" Critical Silencer;
- Electric dual battery 24 volt DC system with emergency shut down, and all weather control enclosures;

22 Whittier Street, Newton, New Hampshire 03858 / Tel. 603-382-0556 / Fax 603-382-0557
www.cbi-inc.com • email: info@cbi-inc.com

NOTICE

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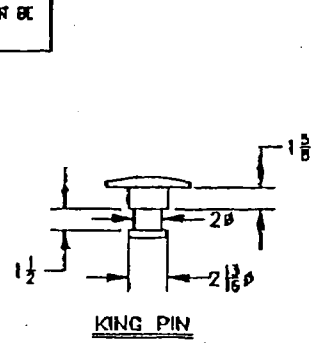
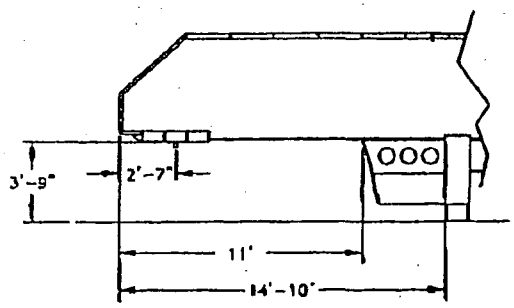
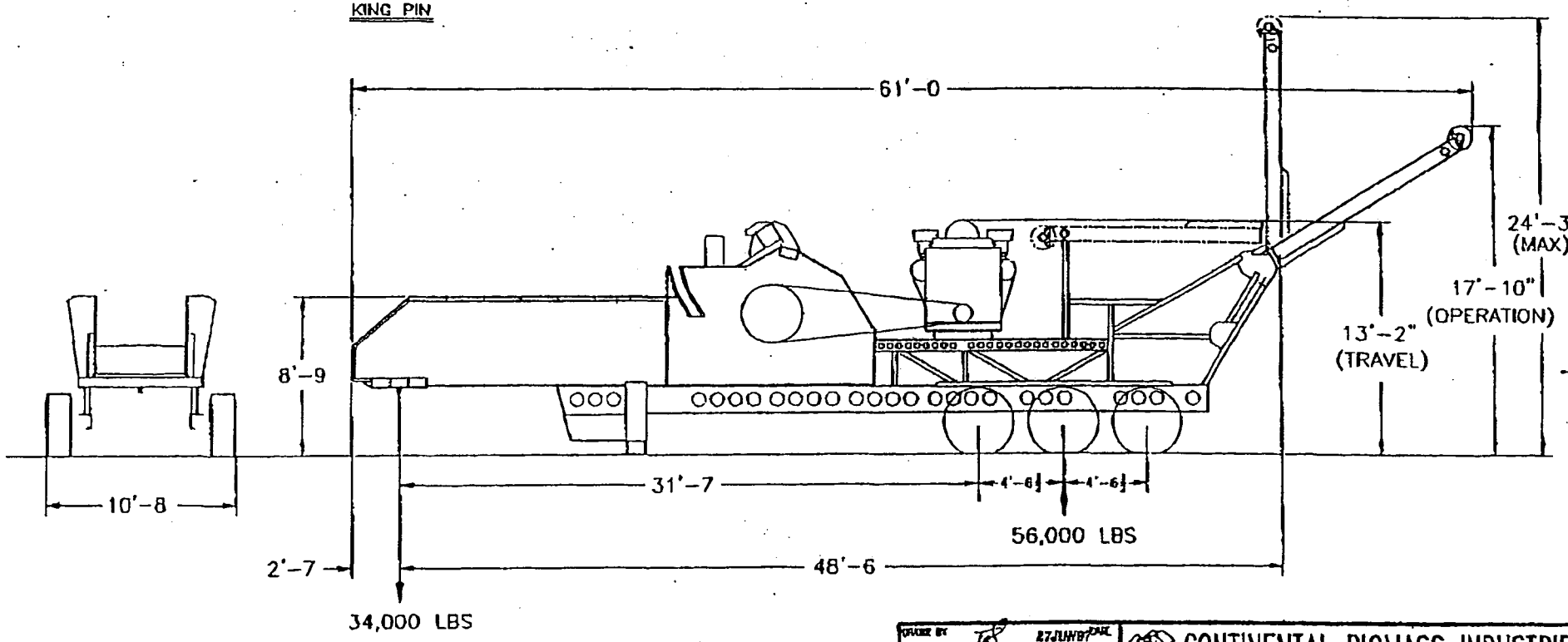
REVISION		
REV	DESCRIPTION	DATE/APVD
A	90,000 WAS 88,800 56,000 WAS 55,600	31MAR98
B	ADDED MAX HEIGHT OF CONVEYOR	27APR98







NOTES:

WEIGHT: 90,000 lbs
TIRES: 445/65R 22.5
LOAD CAPACITY PER TIRE: 12,300

36 FT² GRATE SURFACE AREA 1½" THICK

DRAWN BY [signature] 27JUN97 DATE
CHECKED BY DATE
APVD

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES:
.XX DECIMAL ±.03
.XXX DECIMAL ±.005
ANGLES ±.5°
REMOVE BURRS & SHARP EDGES
MACHINED SURFACE FINISH TO BE 125 RMS
OTHER SURFACE FINISHES TO BE 250 RMS

CONTINENTAL BIOMASS INDUSTRIES
22 WHITTIER ST. NEWTON NH 03858

TITLE: 4800 MAGNUM FORCE DIMENSIONAL OUTLINE

SIZE C | DWG NO 00910008 | REV B

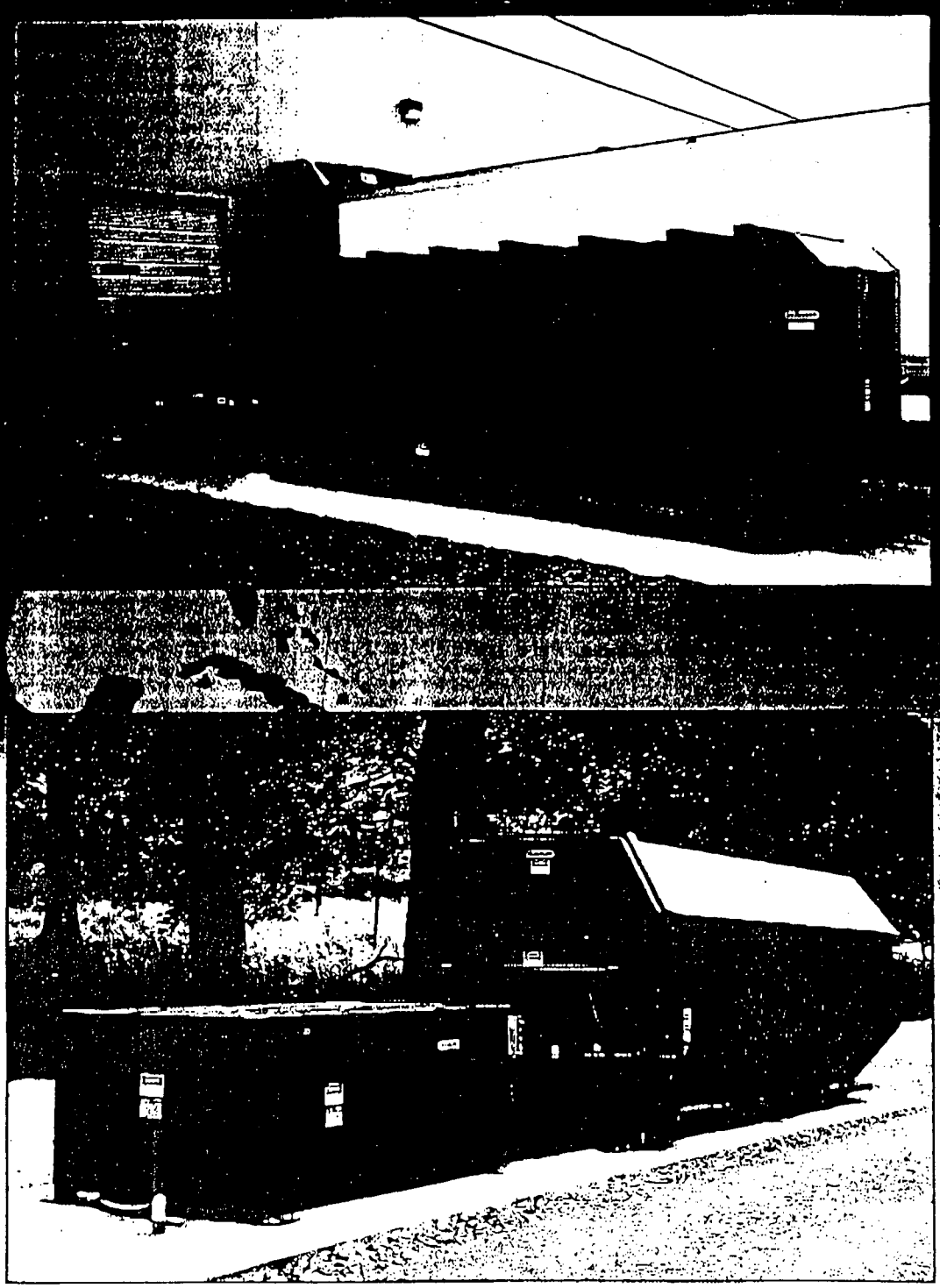
SCALE: | SHEET 1 OF 1

00910008 1

TOTAL P.07

Harris®

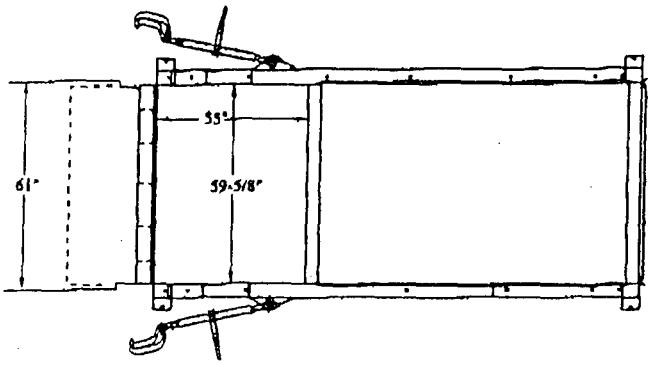
Stationary Compactors



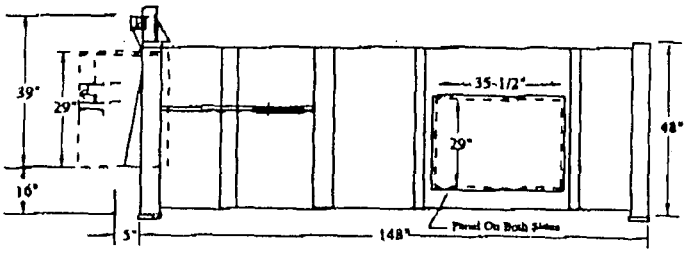
Advanced design, superior engineering provides years of reliable service life.

PakFORCE SPECIFICATION

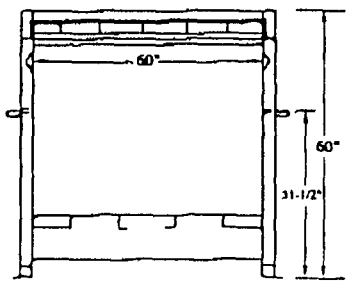
Top View



Side View



End View



Specifications

Model Number		PF6055
NSWMA - Rating Size		2.09 Cubic Yds.
Clear Top Opening -	Length	55"
	Width	59-1/2"
Ram Penetration		16"
Chamber Length		56"
Ram Face -	Height	29"
	Width	60"
Cylinder Stroke		72"
Cylinder Bore		6"
Cylinder Rod Diameter		4"
Discharge Opening -	Height	39"
	Width	61"
Ground Height		16"
Scale Weight B004		approx. 5,200 lbs.
Cycle Time*		31-75 Sec.
Pump Size		10.5 G.P.M.
Motor Size		10 H.P.
Operating Pressure -	Normal	1950 PSI
	Maximum	2250 PSI
Force Rating -	Normal	31.6/55,100
	Maximum	36.5/63,600
Chamber Sides		1/4" Plate
Chamber Floor		1/2" Plate
Ram Top		1/4" Plate
Ram Sides		1/4" Plate
Ram Floor		1/4" Plate
Ram Face		1/2" Plate
Top Cover		12 Ga. Floor Plate

* Varies depending on pump and motor configuration

Standard Features

- Solid State Control System
- External Power Plant
- UL & Canadian UL Listed Industrial Control Panel
- 10 HP, 208/230/460 Volt, 3 Phase Motor
- 40 Micron Air Filter
- 200 Mesh Suction Filter in Reservoir
- Oil Level Sight Gauge with Thermometer
- 25 G.P.M. Hydraulic Control Valve
- 3/4 Full Light (1550 PSI)
- Container Full Light (1950 PSI)
- Claw Type Grab Hooks
- Replaceable Nylon Ram Guides
- Operator's Controls on 10' Sealtite
- Hold to Operate Mode
- Hold to Operate Extend/Auto Retract Mode
- 2 - 8 Multicycle Modes
- Ram Stop Extended Mode
- Floor Plate Walk-On Ramp
- Finish Paint Any Standard Galbreath Color

Optional Features

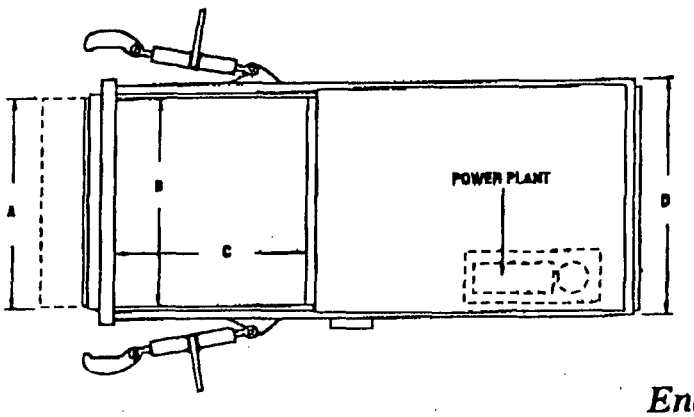
- Electro-Mechanical Power Unit
- Pressure Gauge
- Oil Heater
- Photoelectric Eye
- Low Oil/High Temperature Shut Off Sensor
- Drive-On Ramp
- Internal Power Plant
- Hoppers
- Chutes
- Weather Cover
- Interlock Switch On 30' Sealtite

Specifications...designed for superior performance and efficiency.

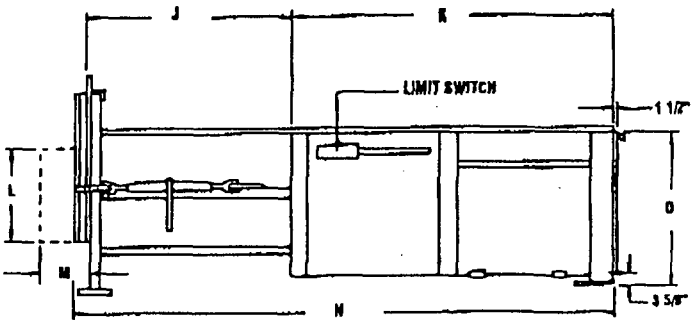
Advanced design, superior engineering provides years of reliable service life.

GP Series
SPECIFICATIONS

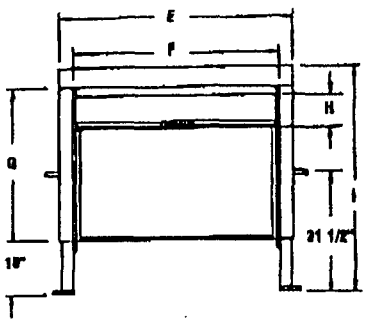
Top View



Side View



End View



Standard Features

- Internal Power Plant
- UL Listed Relay Control Box
- 15 HP 208/230/460 Volt, 3 Phase Electric Motor* (GP-350, GP-450, GP-550, GP-450HD & GP-550HD)
- 40 Micron Air Filter 200 Mesh Oil Screen Filter in Reservoir
- Pump 13.5 GPM
- Operator's Controls on 10' Sealtite
- UL & Canadian UL Listed Industrial Control Panel
- Oil Level Sight Gauge With Thermometer
- 20 GPH Hydraulic Regenerative (1200 PSI) Control Valve
- Pressure Control Shut-Down (1950 PSI)
- Claw Type Grab Hooks
- Replaceable Nylon Ram Guides
- Red Oxide Primer Finish

* Motor can be used on 208 volt system up to 40 Amps. May not meet all NEMA performance limits on 208 volt system.

Optional Features

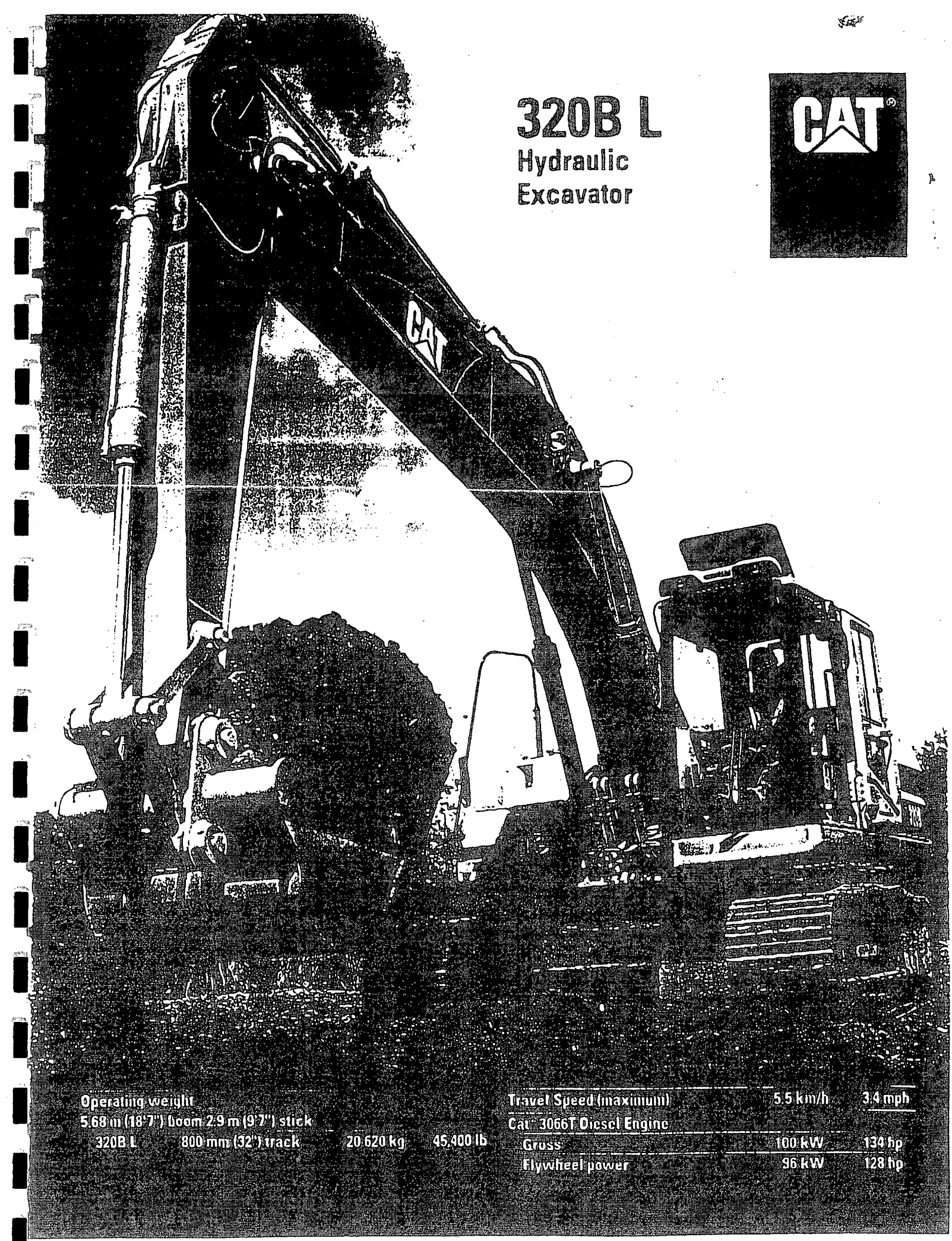
- Container Full Light (1950 PSI)
- 3/4 Container Full Light (1550 PSI)
- Hold to Operate Controls
- Multi-Cycle Timer
- External Power Plant (controls mounted o power unit)
- Remote Control Pendant for External Power Pla
- Pressure Gauge
- Oil Heater
- Photoelectric Eye
- Low Oil/High Temperature Shut Off Sens
- Drive-On Ramp
- Hoppers
- Chutes
- Weather Cover
- Interlock Switch On 30' Sealtite
- Ram Stop Extended Mode
- Override/Hauler's Control
- Guard Rails
- Floor Plate Walk-On Ramp
- 20 HP Motor With 16 GPM Pump
- Internal Switch

Specifications...designed for superior performance and efficiency.

Model No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	APPROX. WT.
GP-350	60"	57"	67"	67"	71"	61½"	43"	10"	64"	70"	114"	28"	18"	187½"	48"	5,863 Lbs.
GP-450	60"	57"	87"	67"	71"	61½"	43"	10"	64"	90"	142"	28"	24½"	236"	48"	6,762 Lbs.
GP-550	72"	69"	87"	79"	83"	73½"	45"	10"	66"	90"	142"	30"	24½"	236"	50"	8,639 Lbs.
GP-450HD	60"	57"	87"	67"	71"	62"	43"	10"	64"	90"	142"	28"	24½"	236"	48"	9,387 Lbs.
GP-550HD	72"	69"	87"	79"	83"	73½"	45"	10"	66"	90"	142"	30"	24½"	236"	50"	10,800 Lbs.

	GP-350	GP-450	GP-550	GP-450HD	GP-550HD
Mfg. Rating	3 Cu. Yds.	4 Cu. Yds.	5 Cu. Yds.	4 Cu. Yds.	5 Cu. Yds.
NSWMA Rating	2.54 Cu. Yds.	3.26 Cu. Yds.	4.19 Cu. Yds.	3.26 Cu. Yds.	4.19 Cu. Yds.
Cycle Time	41-86 seconds - varies depending on pump and motor configuration.				
Packing Force-Norm.	55,100 Lbs.	55,100 Lbs.	55,100 Lbs.	75,000 Lbs.	75,000 Lbs.
Packing Force-Max.	63,600 Lbs.	63,600 Lbs.	63,600 Lbs.	86,500 Lbs.	86,500 Lbs.
Operating Pressure-Norm.	1950 PSI	1950 PSI	1950 PSI	1950 PSI	1950 PSI
Operating Pressure-Max.	2250 PSI	2250 PSI	2250 PSI	2250 PSI	2250 PSI
Cylinder (Bore x Stroke x Rod)	6" x 90" x 4"	6" x 116" x 4.5"	6" x 116" x 4.5"	7" x 116" x 5"	7" x 116" x 5"
Electric Motor	15 HP	15 HP	15 HP	15 HP	15 HP
Oil Reservoir	34 Gal.	34 Gal.	34 Gal.	34 Gal.	34 Gal.
Chamber Floor	1/2" AR Plate	1/2" AR Plate	1/2" AR Plate	3/4" AR Plate	3/4" AR Plate
Chamber Sides	1/4" Plate	1/4" Plate	1/4" Plate	3/8" Plate	3/8" Plate
Ram Top	1/4" Plate	1/4" Plate	1/4" Plate	3/8" Plate	3/8" Plate
Ram Face	1/2" Plate	1/2" Plate	1/2" Plate	3/4" Plate	3/4" Plate

320B L
Hydraulic Excavator

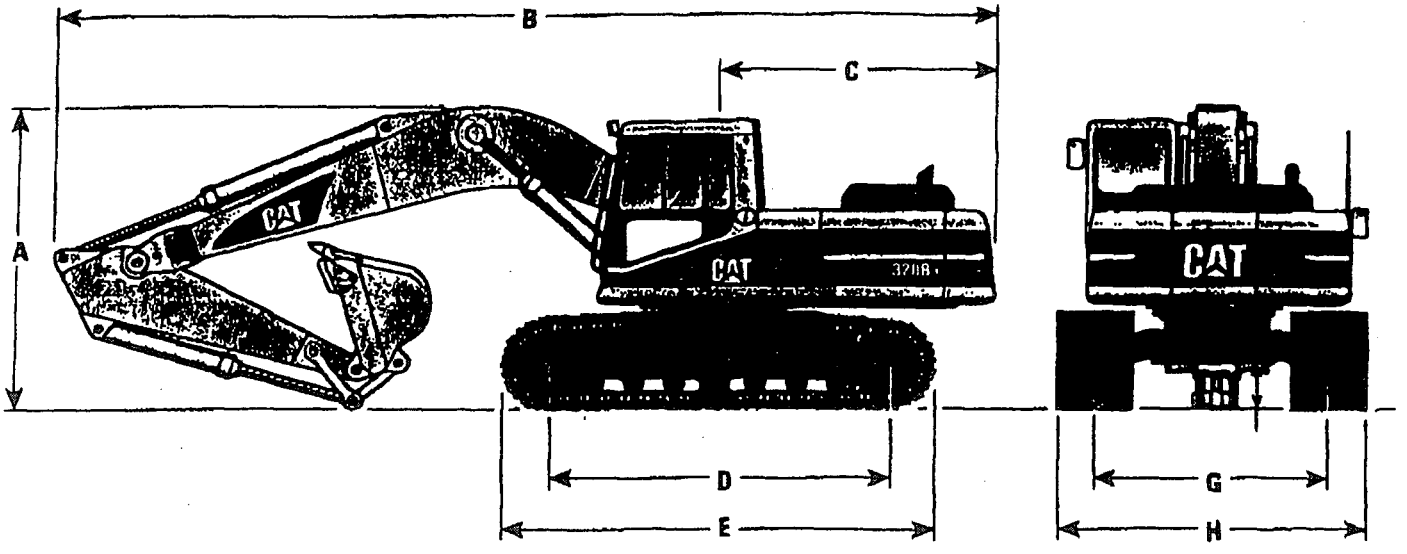


Operating weight				
5.68 m (18'7") boom 2.9 m (9'7") stick				
320B L	800 mm (32") track	20 620 kg	45,400 lb	

Travel Speed (maximum)	5.5 km/h	3.4 mph
Cat® 3066T Diesel Engine		
Gross	100 kW	134 hp
Flywheel power	96 kW	128 hp

Dimensions and Weights

All dimensions are approximate.



Reach Boom 5.68 m (18'7")	R3.9B (12'8") Stick	R2.9B (9'7") Stick	R2.5B (8'2") Stick	R1.9C (6'3") Stick
A Shipping height	3430 mm (11'3")	2930 mm (9'7")	3010 mm (9'11")	3050 mm (10'8")
B Shipping length	9420 mm (30'11")	9440 mm (31')	9460 mm (31')	9490 mm (31'2")
C Tail swing radius	2750 mm (9')	2750 mm (9')	2750 mm (9')	2750 mm (9')
D Length to centers of rollers	3650 mm (12')	3650 mm (12')	3650 mm (12')	3650 mm (12')
E Track length	4455 mm (14'7")	4455 mm (14'7")	4455 mm (14'7")	4455 mm (14'7")
F Ground clearance	475 mm (1'7")	475 mm (1'7")	475 mm (1'7")	475 mm (1'7")
G Track gauge	2380 mm (7'10")	2380 mm (7'10")	2380 mm (7'10")	2380 mm (7'10")
H Transport width	800 mm (32") shoes	600 mm (24") shoes	700 mm (28") shoes	800 mm (32") shoes
Long	3180 mm (10'5")	2980 mm (9'9")	3080 mm (10'1")	3180 mm (10'5")

Mass Boom 5.2 m (17'1")	M2.4C m (7'10") Stick
A Shipping height	3050 mm (10'8")
B Shipping length	9000 mm (29'6")

Operating Weight	600 mm (24") Shoes		700 mm (28") Shoes		800 mm (32") Shoes	
	kg	lb	kg	lb	kg	lb
Sticks:						
3.9 m (12'8")	20 180	44,500	20 540	45,200	20 860	45,900
2.9 m (9'7")	19 940	43,900	20 300	44,700	20 620	45,400
2.5 m (8'2")	19 900	43,800	20 240	44,600	20 580	45,300
1.9 m (6'3")	20 300	44,700	20 650	45,500	20 980	46,200
Mass Boom						
Stick:						
2.4 m (7'10")	20 320	44,700	20 670	45,500	20 990	46,200
Ground Pressure with Reach Boom, 2.9 m (9'7") Stick						
	41.4 kPa	6.0 psi	36.1 kPa	5.2 psi	32.1 kPa	4.7 psi

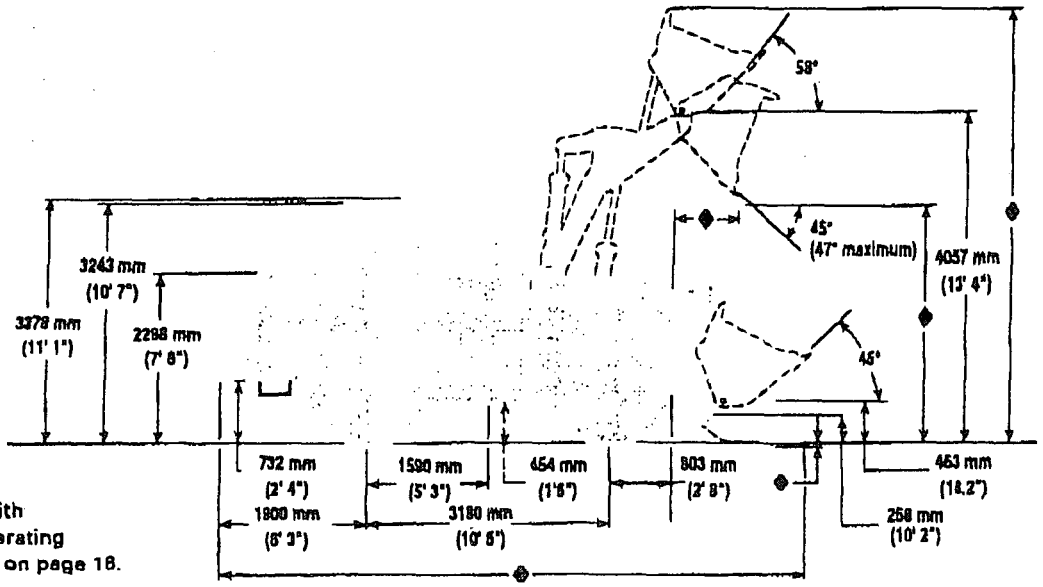
960F
Wheel Loader

CAT

Bucket capacities	3.1 to 3.5 m³	4.0 to 4.5 yd³
Operating weight	17 658 kg	38,936 lb
Cat 3116 Engine		
Gross power	156.5 kW	210 HP
Flywheel power	149 kW	200 HP

Dimensions

All dimensions are approximate.



◆ Dimensions vary with bucket. Refer to operating specifications chart on page 18.

Tread width for all tires 2090 mm (82")

	Width over tires		Ground clearance		Change in vertical dimensions	
	mm	inches	mm	inches	mm	inches
23.5-R25 XHA (L-3) steel radial (standard)	2770	109.0	454	17.9	—	—
23.5-25, 12 PR (L-2)	2754	108.4	476	18.7	+22	+.87
23.5-25, 16 PR (L-3)	2839	111.8	469	18.5	+22	+.87
23.5-R25 GP-2B (L-2/3) steel radial	2771	109.1	471	18.5	+17	+.67
20.5-25, 20 PR (L-3)	2681	105.6	426	16.8	-28	-1.13
20.5-R25 GP-2B (L-2/3) steel radial	2685	105.7	402	15.8	-52	-2.03
20.5-R25 XHA (L-3) steel radial	2692	106.0	399	15.7	-55	-2.16
20.5-R25 XGLA (L-2) steel radial	2700	106.3	393	15.5	-61	-2.4

Supplemental Specifications

	Change in Operating Weight		Change in Articulated Static Tipping Load	
	kg	lb	kg	lb
Remove cab only, ROPS remains	+177	-390	-132	-291
23.5-25, 16 PR (L-3)	-238	-525	-148	-326
23.5-R25 GP-2B (L-2/3) steel radial	-84	-185	-49	-108
20.5-25, 20 PR (L-3)	-612	-1350	-381	-840
20.5-R25 GP-2B (L-2/3) steel radial	-568	-1253	-354	-780
20.5-R25 XHA (L-3) steel radial	-568	-1253	-354	-780
20.5-R25 XGLA (L-2) steel radial	-747	-1647	-464	-1023
23.5-25, 12 PR (L-2)	-409	-902	-256	-564

Note: Tire options include exchange of tires and rims.

ATTN: Jim
RE: Bldg Lighting (Existing)
* 400 Watt Metal Halide Hig Bay Lights

High Intensity Discharge Lamps

Metal Halide Lamps

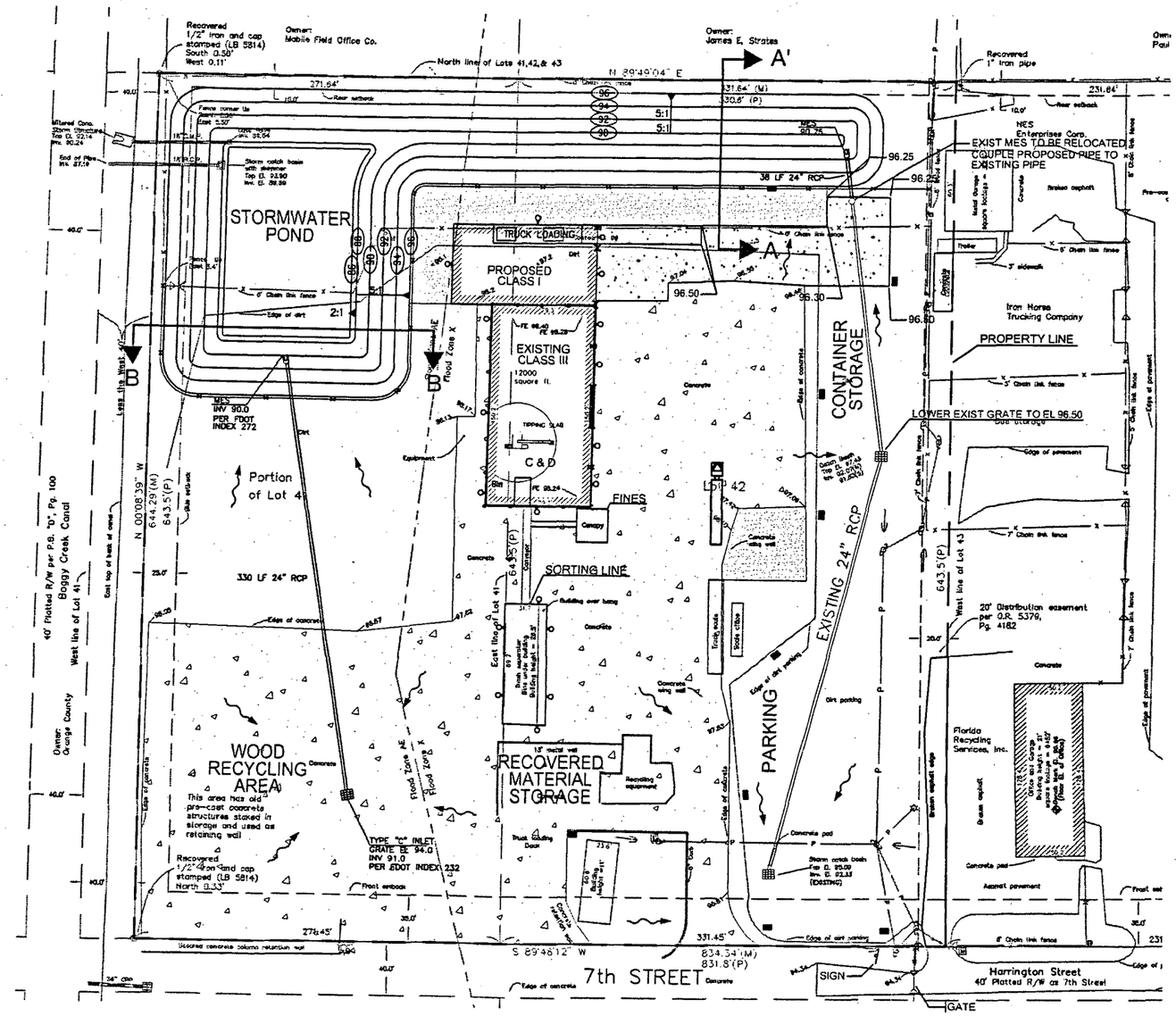
Lamp Watts	Bulb	Base	Product Number 046877-	Ordering Code	ANSI Code	Pkg. Qty.	Description (Operating Position — Universal, unless otherwise indicated)	L.C.L. (In.)	M.O.L. (In.)	Rated Avg. Life Hrs.(357)	Approximate Lumens(352): Initial	Mean(353)	CRI	CCT(K)
175	ED-28	Mog.	28733-4	MH175/U	M57/PE-175	12	•G, & St. Ltg., Clear (372)(377)	5	8⅝	10,000 (385)	13,000	10,350	65	3700
(Enclosed fixtures only) Operate on ANSI specified "M57" Metal Halide Ballasts.			28728-4	MH175/C/U	M57/PF-175	12	•G, & St. Ltg., Phos. Coated (372)(377)	5	8⅝	10,000 (385)	13,000	9500	70	3400
			31287-6	MH175/3K/BU	M57/PF-175/BU	12	•G, Vert. ±15° Phos. Coated (372)(374)(377)		8¼	10,000	12,000	9000	70	3200
		POMB	28649-2	MS175/HOR	M57/PE-175/HOR	12	•G, S, Hor. ±45° Clear (372)(374)(377)	5	8¼	7500	15,000	12,000	65	4100
		POMB	28650-0	MS175/C/HOR	M57/PF-175/HOR	12	•G, Hor. ±45° Phos. Coated (372)(374)(377)		8¼	7500	15,000	11,300	70	4100
	PAR-38 ▲	Med.	30658-5	MH175/RLP	M57	6	•G, Clear, 50° Beam (372)(377)		5¾	7500	11,000		65	4100
	☐		31513-5	MH175/RSP	M57	6	•G, Clear, 16° Beam (372)(377)		5⅛	7500	11,000		65	4100
250	ED-28	Mog.	27484-5	MH250/U	M58/PG-250	12	•G, & St. Ltg., Clear (372)(377)	5	8⅝	10,000	20,500	17,000	65	3700
(Enclosed fixtures only) Operate on ANSI specified "M59" Metal Halide Ballasts.			29169-0	MH250/C/U	M58/PH-250	12	•G, & St. Ltg., Phos. Coated (372)(377)	5	8⅝	10,000	20,500	16,000	70	3400
			31137-3	MH250/3K/BU	M58/PH-250/3K/BU	12	•G, BU ±45° Phos. Coated (372)(374)(377)	5	8¼	10,000	18,000	14,200	70	3200
		POMB	28652-6	MS250/HOR	M58/PG-250/HOR	12	•G, S, Hor. ±45° Clear (372)(374)(377)	5	8¼	10,000	23,000	18,000	65	4100
		POMB	28654-2	MS250/C/HOR	M58/PH-250/HOR	12	•G, Hor. ±45° Phos. Coated (372)(374)(377)	5	8¼	10,000	23,000	17,000	70	3800
	T-15	Mog. †	33382-3	MH250/T15	M58	12	•G, Clear, (372)(374)(377)	5¾	9¾	10,000	21,000	16,800	65	3700
	R-40	Med.∞ †	32802-1	MH250/RSP	M58	12	•Clear, 20° Beam (372)(377)		7½	7500	18,000		62	3800
400	ED-28	Mog.	27862-2	MH400/U/ED28	M59	12	•G, Clear (372)(377)	5	8⅝	12,000	36,000	28,800	65	3700
(Enclosed fixtures only) Operate on ANSI specified "M59" Metal Halide Ballasts.														
400	ED-37	Mog.	34415-0	MH400/U	M59/PJ-400/U	6	•G, & St. Ltg., Clear (372)(377)	7	11½	20,000 (364)	36,000	28,800	65	3700
Operate on ANSI Specified, "M59" Metal Halide Ballasts.			34416-8	MH400/C/U	M59/PK-400/U	6	•G, & St. Ltg., Phos. Coated (372)(377)	7	11½	20,000 (364)	36,000	27,700	70	3400
			31285-0	MH400/3K/U	M59/PK-400/3K/U	6	•G Phos. Coated (372)(377)	7	11½	20,000 (364)	33,000	25,000	70	3200
			30170-5	MS400/BU	M59/PJ-400/BU	6	•High Efficacy, Base Up ±15° Clear (372)(374)(377)	7	11½	20,000	40,000	32,000	65	3700
			30172-1	MS400/C/BU	M59/PK-400/BU	6	•High Efficacy, Base Up ±15° Phos. Coat. (372)(374)(377)	7	11½	20,000	40,000	31,000	70	3400
			31135-7	MS400/3K/BU	M59/PK-400/BU	6	•G, BU ±15° Phos. Coated (372)(374)(377)	7	11½	20,000	36,000	27,000	70	3200
		POMB	28655-9	MS400/HOR	M59/PJ-400/HOR	6	•G, S, Hor. ±45° Clear (372)(374)(377)	7	11½	20,000	40,000	32,000	65	4100
		POMB	28656-7	MS400/C/HOR	M59/PK-400/HOR	6	•G, Hor. ±45° Phos. Coated (372)(374)(377)	7	11½	20,000	40,000	31,000	70	3800
(Enclosed fixtures only)	R-60	Mog. ☐	31973-1	MH400/RSP	M59	6	•G, Clear, (372)(377)		10¾	15,000	30,000		65	3800
	T-15	Mog. ☐	23127-4	MH400/T15	M59/PL-400	12	•G, Clear (372)(377)	5¾	9¾	10,000	36,000	27,700	65	3700
1000	BT-37	Mog. †	32150-5	MH1000/U/BT37	M47	6	•G, Clear, (359)(372)(377)	7	11½	10,000	110,000	88,000	65	3700
(Enclosed fixtures only) Operate on ANSI specified "M47" Metal Halide Ballasts														
	BT-56	Mog.	29826-5	MH1000/U	M47/PA-1000/U	6	•G, & St. Ltg. Clear (372)(377)	9½	15¾	12,000	110,000	88,000	65	3700
Operate on ANSI specified "M47" Metal Halide Ballasts			29827-3	MH1000/C/U	M47/PB-1000/U	6	•G, & St. Ltg. Phos. Coated (372)(377)	9½	15¾	12,000	110,000	83,000	70	3400
			25093-6	MS1000/BU	M47/PA-1000/BU/S	6	•High Efficiency, Base Up ±15° Clear (372)(374)(377)	9½	15⅜	10,000	125,000	100,000	65	3700

☐ Exclusive Product POMB-Position Oriented Mogul Base

† New Since Last Printing

APPENDIX I

SITE PLANS



HSA Golden
Environmental & Engineering Consultants

225 East Robinson Street
Suite 100
Orlando, Florida
32801
Tel: 407 649-5475
Fax: 407 649-6582

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, PLEASE ADJUST SCALE.

DOCUMENT REUSE
THIS DOCUMENT AND THE CONCEPTS AND DESIGNS INCORPORATED HEREIN ARE THE PROPERTY OF HSA GOLDEN AND ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PURPOSE WITHOUT EXPRESS WRITTEN AUTHORIZATION OF HSA GOLDEN.
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TAFT RECYCLING, INC.
ORANGE COUNTY, FLORIDA

CLASS I & III WPF PROPOSED SITE PLAN

DATE	REVISIONS	REVISED	CHECKED

David L. Leggett, P.E.
P.E. No. 58667, FL
Engineering Business No. 9915
David L. Leggett
DATE 8-17-04

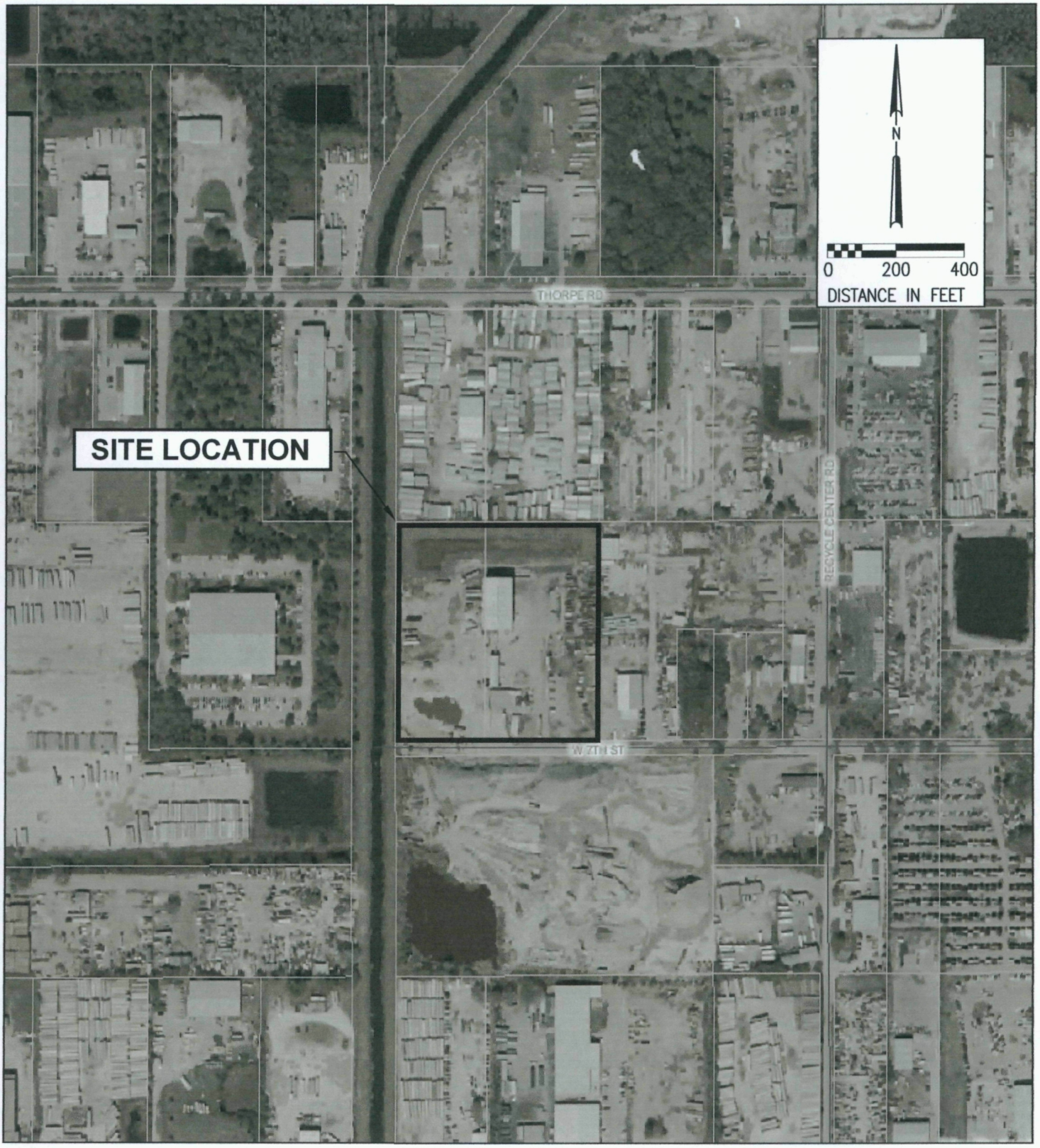
	BY	DATE
DESIGNED	DLL	7/04
DRAWN	DRD	7/04
CHECKED	DLL	8/04
QC APPROVAL	JEG	8/04

FILE: 04297001C05.DWG

PROJECT NO. 04-297.001
SCALE 1"=50'
C-1
SHEET OF

ATTACHMENT D

AERIAL PHOTOGRAPH AND SITE PLANS



SOURCE: ORANGE COUNTY GIS DEPARTMENT(APRIL 2003 PHOTO) AND ORANGE COUNTY SOIL SURVEY

HSA Golden
Environmental & Engineering Consultants
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Suite 100
Orlando, Florida
32801
Tel: 407 649-5475
Fax: 407 649-6582

PROJECT NO.: 04-297.001 AUGUST 2004

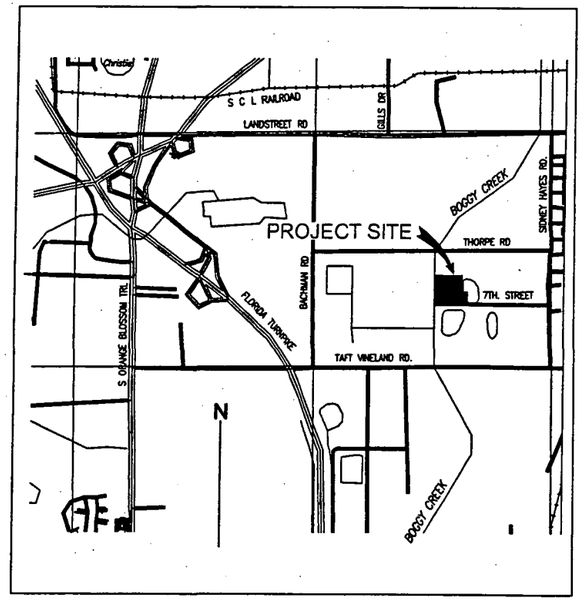
AERIAL PHOTO

TAFT RECYCLING, INC
ORANGE COUNTY, FLORIDA

FIGURE 1

CONSTRUCTION DRAWINGS
FOR
TAFT RECYCLING, INC.
CLASS I & III WASTE PROCESSING FACILITY
375 7th STREET
TAFT, FLORIDA

LOCATION MAP



INDEX

PREPARED FOR
TAFT RECYCLING, INC.
1099 MILLER DRIVE
ALTAMONTE SPRINGS, FL 32701

DATE: AUGUST 2004
PROJECT No. 04-297.001

PREPARED BY:

HSA Golden
Environmental & Engineering Consultants
225 East Robinson Street
Suite 100
Orlando, Florida
32801
Tel: 407 649-5475
Fax: 407 649-6582

David L. Leggett
8-17-04

GENERAL NOTES

GENERAL NOTES

GENERAL INFORMATION

1. BENCHMARKS FOR CONSTRUCTION HAVE BEEN PROVIDED ON SHEETS C-1, C-3, AND C-4

2. ALL LABOR, MATERIALS, AND METHODS OF CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE MINIMUM ENGINEERING AND CONSTRUCTION STANDARDS ADOPTED BY ORANGE COUNTY AND THE FDOT. WHERE CONFLICTS OR OMISSIONS EXIST, THE ORANGE COUNTY STANDARDS SHALL DICTATE. SUBSTITUTIONS AND DEVIATIONS FROM PLANS AND SPECIFICATIONS SHALL BE PERMITTED ONLY WHEN WRITTEN APPROVAL HAS BEEN ISSUED BY THE ENGINEER.

3. DURING ALL PHASES OF CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM THE WORK INCLUDED IN THIS PROJECT WHERE ALL MATERIALS, EQUIPMENT, SERVICES, ETC. USED OR PROVIDED CONFORM TO ALL O.S.H.A. REQUIREMENTS. THE CONTRACTOR'S SIGNATURE AFFIXED TO THE CONTRACT AGREEMENT WITH THE OWNER IS CONSIDERED CERTIFICATION OF CONFORMANCE TO SUCH REQUIREMENTS.

4. THREE (3) SETS OF SHOP DRAWINGS OF ALL MATERIALS BEING USED SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.

5. ALL MATERIALS AND CONSTRUCTION TO BE IN ACCORDANCE WITH ORANGE COUNTY'S AND FDOT'S CONSTRUCTION SPECIFICATIONS, LATEST EDITION, UNLESS OTHERWISE WAIVED.

6. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL REQUIRED PERMITS ARE OBTAINED AND IN HAND BEFORE BEGINNING ANY CONSTRUCTION. NO CONSTRUCTION OR FABRICATION OF ANY ITEM SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED ALL PLANS AND ANY OTHER DOCUMENTATION FROM ALL OF THE PERMITTING AND ANY OTHER REGULATORY AUTHORITIES. ANY PENALTIES, STOP WORK ORDERS ON ADDITIONAL WORK RESULTING FROM THE CONTRACTOR BEING IN VIOLATION OF THE REQUIREMENTS ABOVE SHALL BE FULLY BORNE BY THE CONTRACTOR.

7. THE LOCATION OF ALL EXISTING UTILITIES AND STORM DRAINAGE SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR INACCURACY. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITIES AND TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATION OF THESE UTILITIES WITH THE OWNER OF THE UTILITY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING UNDERGROUND UTILITY, WHETHER SHOWN ON THE PLAN OR LOCATED BY THE UTILITY COMPANY. ALL UTILITIES WHICH INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FIRST. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE UTILITIES ARE RELOCATED IN ACCORDANCE WITH RESPECTIVE UTILITY COMPANY STANDARDS. IT IS REQUESTED THAT UTILITY COMPANIES MOVE THEIR PARTICULAR UTILITIES. ANY DELAY OR INCONVENIENCE CAUSED TO THE CONTRACTOR BY THE RELOCATION OF THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED.

8. A PRECONSTRUCTION MEETING IS TO BE HELD BETWEEN THE JURISDICTIONAL ENTITY (ORANGE COUNTY), UTILITIES, ENGINEER OF RECORD OR HIS DESIGNEE, AND CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION.

9. THE SEQUENCE OF CONSTRUCTION SHALL BE SUCH THAT ALL UNDERGROUND INSTALLATIONS OF EVERY KIND, INCLUDING SPRINKLERS, SHALL BE PLACED BENEATH THE PAVEMENT AND ITS EDGES PRIOR TO THE CONSTRUCTION OF THE PAVEMENT. THE PAVEMENT SHALL NOT BE CUT WITHOUT PRIOR APPROVAL OF THE ENGINEER.

10. CONSTRUCTION INSPECTION WILL BE PROVIDED BY THE ORANGE COUNTY OR THE ENGINEER. THE CONTRACTOR SHALL NOTIFY THE COUNTY AND ENGINEER AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION AND AT LEAST BEFORE REQUIRING INSPECTION ON EACH AND EVERY PHASE OF WORK. THE CONTRACTOR SHALL NOTIFY THE COUNTY AND ENGINEER A MINIMUM OF 48 HOURS NOTICE PRIOR TO ANY SCHEDULED TESTING. NO BACTERIOLOGICAL TESTING, PRESSURE TESTING, OR FINAL TESTING WILL BE ACCEPTED UNLESS WITNESSED BY THE ENGINEER'S REPRESENTATIVE.

11. ALL CONTRACTORS, COUNTY REPRESENTATIVES, AND UTILITY COMPANIES ARE RESPONSIBLE FOR THEIR RESPECTIVE SURVEYING AND LAYOUT FROM BENCHMARK PROVIDED ON CONSTRUCTION PLANS. ANY SURVEY MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE REPLACED UPON COMPLETION OF THE WORK BY A REGISTERED LAND SURVEYOR.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING ANY CONSTRUCTION ACTIVITIES FROM TAKING PLACE OUTSIDE OF THE LIMITS OF CONSTRUCTION SHOWN ON THE PLANS. ANY ON-SITE OR OFFSITE AREAS DISTURBED SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER.

13. OFF-SITE ROAD IMPROVEMENTS WILL BE MAINTAINED BY ORANGE COUNTY.

14. THE CONTRACTOR SHALL MAINTAIN A CURRENT SET OF CONSTRUCTION PLANS AND ALL PERMITS ON THE JOB SITE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE TWO (2) SETS (THIS NUMBER SHOULD VARY DEPENDING ON THE REQUIREMENTS OF THE ORANGE COUNTY) OF RECORD DRAWINGS TO THE ENGINEER WITHIN TWO (2) WEEKS AFTER CONSTRUCTION HAS COMPLETED ON EACH PHASE.

15. TOPOGRAPHIC DATA SHOWN ON THESE PLANS WERE TAKEN FROM SURVEYS PREPARED BY HENRICH - LUKE & SWAGGERTY, LLC.

16. ALL PIPE CALL OUTS ARE MEASURED CENTER LINE TO CENTER LINE FOR MANHOLES AND INLETS AND FROM THE END OF THE PIPE FOR MITERED END SECTIONS.

17. ALL DEWATERING COSTS ASSOCIATED WITH THE INSTALLATION AND CONSTRUCTION OF THE UNDERGROUND UTILITIES; STORMWATER PIPES AND MANHOLES; SANITARY SEWER MAINS, FORCE MAINS, MANHOLES, AND LIFT STATIONS; AND STORMWATER MANAGEMENT SYSTEMS SHALL BE INCLUDED AS PART OF THE CONSTRUCTION BID COSTS.

18. ALL PIPES SHALL HAVE 3 FEET MINIMUM COVER UNLESS OTHERWISE SPECIFIED IN PLANS, CONTRACTOR SHALL TAKE CARE TO PROVIDE PROPER GRADE ELEVATIONS AND ALIGNMENTS.

19. PLANS AND SPECIFICATIONS REQUIRE THAT COMPACTED BACKFILL BE PLACED ALONG SIDE OF AND OVER ALL UTILITIES. THE ENGINEER MAY REQUIRE THAT COMPACTION TESTS BE TAKEN TO VERIFY BACKFILL COMPACTION. THE COST OF SUCH COMPACTION TESTS WILL BE BORNE BY THE CONTRACTOR.

20. UTILITIES WILL BE PROVIDED AS FOLLOWS:

ELECTRIC WILL BE PROVIDED BY FLORIDA POWER.

TELEPHONE WILL BE PROVIDED BY BELL SOUTH.

WATER WILL BE PROVIDED BY ORANGE COUNTY UTILITIES.

SEWAGE COLLECTION WILL BE PROVIDED BY ORANGE COUNTY UTILITIES.

PROPERTY CURRENTLY ZONED INDUSTRIAL PARK DISTRICT (IP).

EARTHWORK AND SITEWORK

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY TESTING TO ASSURE THAT THE PROPER COMPACTION HAS BEEN ACHIEVED ON THE SUBGRADE, BASE, AND ALL OTHER PERTINENT AREAS THAT HAVE BEEN COMPLETED. THE CONTRACTOR SHALL BEAR ALL COSTS ASSOCIATED WITH TESTING AND RETESTING OF THE AREAS AND SHALL PROVIDE THE OWNER AND THE ENGINEER WITH COPIES OF THE CERTIFICATION OF COMPACTION FROM THE TESTING COMPANY.

2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE EXISTING SITE CONDITIONS OF SOIL PRIOR TO N.T.P. TO DETERMINE IF ANY OFF SITE MATERIALS WILL NEED TO BE IMPORTED TO ACHIEVE THE GRADES SPECIFIED ON THE PLANS.

3. ALL EXCESS FILL FROM SITE SHALL BE STOCKPILED BY THE CONTRACTOR, IN A LOCATION DETERMINED BY THE OWNER OR THE OWNER'S REPRESENTATIVE AND THE ENGINEER.

4. CLEAR AREAS INDICATED SHALL BE COMPLETELY CLEAR OF ALL TIMBER, BRUSH, STUMPS, ROOTS, GRASS, WEEDS, RUBBISH, AND ALL OTHER DEBRIS AND OBSTRUCTIONS RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE GROUND.

5. PRIOR TO BID PREPARATION, THE CONTRACTOR MUST BECOME FAMILIAR WITH THE OVERALL SITE CONDITIONS AND PERFORM ADDITIONAL INVESTIGATIONS AS DETERMINED NECESSARY TO UNDERSTAND THE LIMIT AND DEPTH OF EXPECTED ORGANIC SILT PEAT AREAS, ADEQUACY OF EXISTING MATERIALS AS FILL, DEWATERING REQUIREMENTS, CLEAN FILL REQUIRED FROM OFFSITE, AND MATERIALS TO BE DISPOSED OF OFFSITE, ALL OF WHICH WILL AFFECT CONSTRUCTION COST. ANY DELAY, INCONVENIENCE, OR EXPENSE CAUSED TO THE CONTRACTOR DUE TO INADEQUATE INVESTIGATION OF EXISTING CONDITIONS SHALL BE INCIDENTAL THE CONTRACT, AND NO EXTRA COMPENSATION WILL BE ALLOWED. THE MATERIALS ANTICIPATED TO BE ENCOUNTERED DURING CONSTRUCTION MAY REQUIRE DRYING PRIOR TO USE AS BACKFILL AND THE CONTRACTOR MAY HAVE TO IMPORT MATERIALS, AT NO EXTRA COST, FROM OFFSITE TO MEET THE REQUIREMENTS FOR COMPACTION AND PROPER FILL.

OTHER UTILITY INFORMATION

1. THE CONTRACTOR SHALL PROTECT ALL UTILITIES AND OTHER IMPROVEMENTS SHOWN ON THESE PLANS AND ALL OTHER UTILITIES AND OTHER IMPROVEMENTS NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REPAIRS OF UTILITIES AND OTHER IMPROVEMENTS DAMAGED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER, AT NO ADDITIONAL COST TO THE OWNER, AND SHALL MAINTAIN SUFFICIENT PROTECTION TO ALL UTILITIES REQUIRED TO PROTECT THEM FROM DAMAGE AND TO PROTECT THE PUBLIC DURING CONSTRUCTION.

2. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES WHICH MAY HAVE THEIR UTILITIES WITHIN THE CONSTRUCTION AREAS TO LOCATE THEIR FACILITIES IN THE FIELD FORTY-EIGHT (48) HOURS PRIOR TO BEGINNING CONSTRUCTION.

3. DUCTILE IRON PIPE SHALL BE ENCASED IN POLYETHYLENE TWENTY-FIVE (25) FEET ON EACH SIDE OF ANY PERPENDICULAR CROSSING OF METALLIC GAS MAINS OR ANY OTHER CATHODICALLY PROTECTED PIPELINE AND FOR ALL LOCATIONS PARALLEL TO AND WITHIN TEN FEET OF ANY METALLIC GAS MAINS OR ANY OTHER CATHODICALLY PROTECTED PIPE AND THROUGH THE AREA OF INFLUENCE OF ANY CATHODIC PROTECTION ANODE BED.

4. CHAPTER 553 - 851 OF THE FLORIDA STATUTES REQUIRES THAT AN EXCAVATOR NOTIFY ALL GAS UTILITIES A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO EXCAVATING. THE DRAWINGS SHOW ONLY THE APPROXIMATE LOCATION OF GAS MAINS AND DO NOT SHOW SERVICE LINES.

EROSION CONTROL AND SEDIMENTATION

1. THE CONTRACTOR MUST INSTALL AND MAINTAIN GRASS, SEED AND MULCH, OR SOD ON EXPOSED SLOPES WITHIN 48 HOURS OF COMPLETED FINAL GRADES, AND AT ANY OTHER TIME AS NECESSARY TO PREVENT EROSION, SEDIMENTATION OR TURBID DISCHARGES TO ANY DOWNSTREAM WATER BODY, WETLAND, OR OFFSITE PROPERTY. SODDING ON SLOPES 3:1 AND STEEPER SHALL BE STAKED.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROJECT COMPLYING WITH APPLICABLE STATE WATER QUALITY STANDARDS DURING CONSTRUCTION AS SPECIFIED IN THE PERMITS. ALL WATER AND WIND EROSION SHALL BE MINIMIZED AS DEFINED IN THE SPECIFICATIONS AND PERMITS. THE SPECIFICATIONS PROVIDE ONLY A MINIMUM REQUIREMENT FOR EROSION AND SEDIMENTATION CONTROL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT CONTROL MEASURES NOT SHOWN IN SPECIFICATIONS. ALL COSTS ASSOCIATED WITH TURBIDITY CONTROL AND SEDIMENT STABILIZATION SHALL BE BORNE BY THE CONTRACTOR.

3. THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL ALSO OPERATE AND MAINTAIN EROSION AND SEDIMENT CONTROL DEVICES AND STRUCTURES IN ACCORDANCE WITH THE REGULATIONS SET FORTH IN THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) AS SHOWN IN THE STORMWATER POLLUTION PREVENTION PLAN (SWP3) FOR THIS SITE.

4. THE CONTRACTOR SHALL SEED AND MULCH ALL AREAS DISTURBED BY CONSTRUCTION UNLESS SODDING, OR OTHER MORE READILY EFFECTIVE STABILIZATION PRACTICES ARE SPECIFIED ON THE PLANS.

5. THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO CONTROL TURBIDITY INCLUDING, BUT NOT LIMITED TO, THE INSTALLATION OF TURBIDITY BARRIERS AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSPORTING SUSPENDED SOLIDS INTO THE RECEIVING WATER BODY EXISTS DUE TO THE PROPOSED WORK. TURBIDITY BARRIERS MUST BE MAINTAINED AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND DISTURBED SOIL AREAS ARE STABILIZED. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REMOVING THE BARRIERS. AT NO TIME SHALL THERE BE ANY OFFSITE DISCHARGE WHICH VIOLATES THE WATER QUALITY STANDARDS IN CHAPTERS 62-302 AND 62-4, FLORIDA ADMINISTRATIVE CODE.

DEMOLITION

1. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND LICENSES FOR PERFORMING THE DEMOLITION WORK AND SHALL FURNISH A COPY OF SAME TO THE ENGINEER PRIOR TO COMMENCING THE WORK. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE PERMITS.

2. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES OR LOCAL AUTHORITIES FURNISHING GAS, WATER, ELECTRICAL, TELEPHONE, OR SEWER SERVICE, SO THEY CAN REMOVE, RELOCATE, DISCONNECT, CAP OR PLUG THEIR EQUIPMENT IN ORDER TO FACILITATE DEMOLITION.

3. THE CONTRACTOR SHALL PROTECT ALL UTILITIES AND OTHER IMPROVEMENTS SHOWN ON THESE PLANS AND ALL OTHER UTILITIES AND OTHER IMPROVEMENTS NOT SHOWN. THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR REPAIRS OF UTILITIES AND OTHER IMPROVEMENTS DAMAGED DURING CONSTRUCTION AND SHALL MAINTAIN SUFFICIENT PROTECTION TO ALL UTILITIES REQUIRED TO PROTECT THEM FROM DAMAGE AND TO PROTECT THE PUBLIC DURING CONSTRUCTION.

4. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL TREES, STRUCTURES, AND UTILITIES NOT MARKED FOR REMOVAL OR DEMOLITION AND SHALL PROMPTLY REPAIR ANY DAMAGE AS DIRECTED BY THE ENGINEER AT NO COST TO THE OWNER.

5. THE CONTRACTOR TO REMOVE ALL PAVING MARKED FOR DEMOLITION WHICH INCLUDES ALL ASPHALT, CONCRETE, BASE, AND RETAINING WALLS (INCLUDING THE FOOTERS).

6. THE CONTRACTOR TO REMOVE ALL TREES MARKED FOR REMOVAL WHICH INCLUDES THE ROOTS ASSOCIATED WITH THE TREE. THE TREES NOT MARKED FOR REMOVAL SHALL BE PROTECTED IN ACCORDANCE WITH THE ORANGE COUNTY'S REGULATIONS.

7. THE CONTRACTOR TO REMOVE ALL UNSALVAGEABLE MATERIALS AND YARD WASTE FROM THE SITE IMMEDIATELY AND DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.

8. THE CONTRACTOR SHALL SAW-CUT A SMOOTH STRAIGHT EDGE ON ANY PAVEMENT PROPOSED FOR DEMOLITION PRIOR TO ITS REMOVAL. PRIOR TO CONNECTING PROPOSED PAVEMENT TO EXISTING PAVEMENT, THE CONTRACTOR SHALL ENSURE THAT THE EDGE OF THE EXISTING PAVEMENT IS STRAIGHT AND UNIFORM.

SITE COVER CALCULATIONS

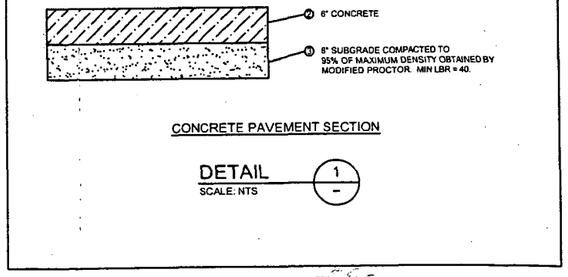
TOTAL SITE AREA 8.92 ACRES

EXISTING CONDITIONS

DESCRIPTION	AREA	
	AC	%
PERVIOUS	4.68	5.25
PAVEMENT	3.29	36.9
ROOF	0.42	4.7
POND	0.53	5.9
TOTAL	4.68	100

PROPOSED CONDITIONS

DESCRIPTION	AREA	
	AC	%
PERVIOUS	3.82	42.8
PAVEMENT	3.53	39.6
GRAVEL	0.29	3.3
ROOF	0.57	6.4
POND	0.71	8.0
TOTAL	8.92	100



CONCRETE PAVEMENT SECTION

DETAIL 1 / -
SCALE: NTS

HSA ENGINEERS & SCIENTISTS
Environmental & Engineering Consultants
225 East Robinson Street
Suite 100
Orlando, Florida
32801
Tel: 407 649-5475
Fax: 407 649-6582

TAFT RECYCLING, INC.
ORANGE COUNTY, FLORIDA

GENERAL NOTES AND SITE CALCULATIONS

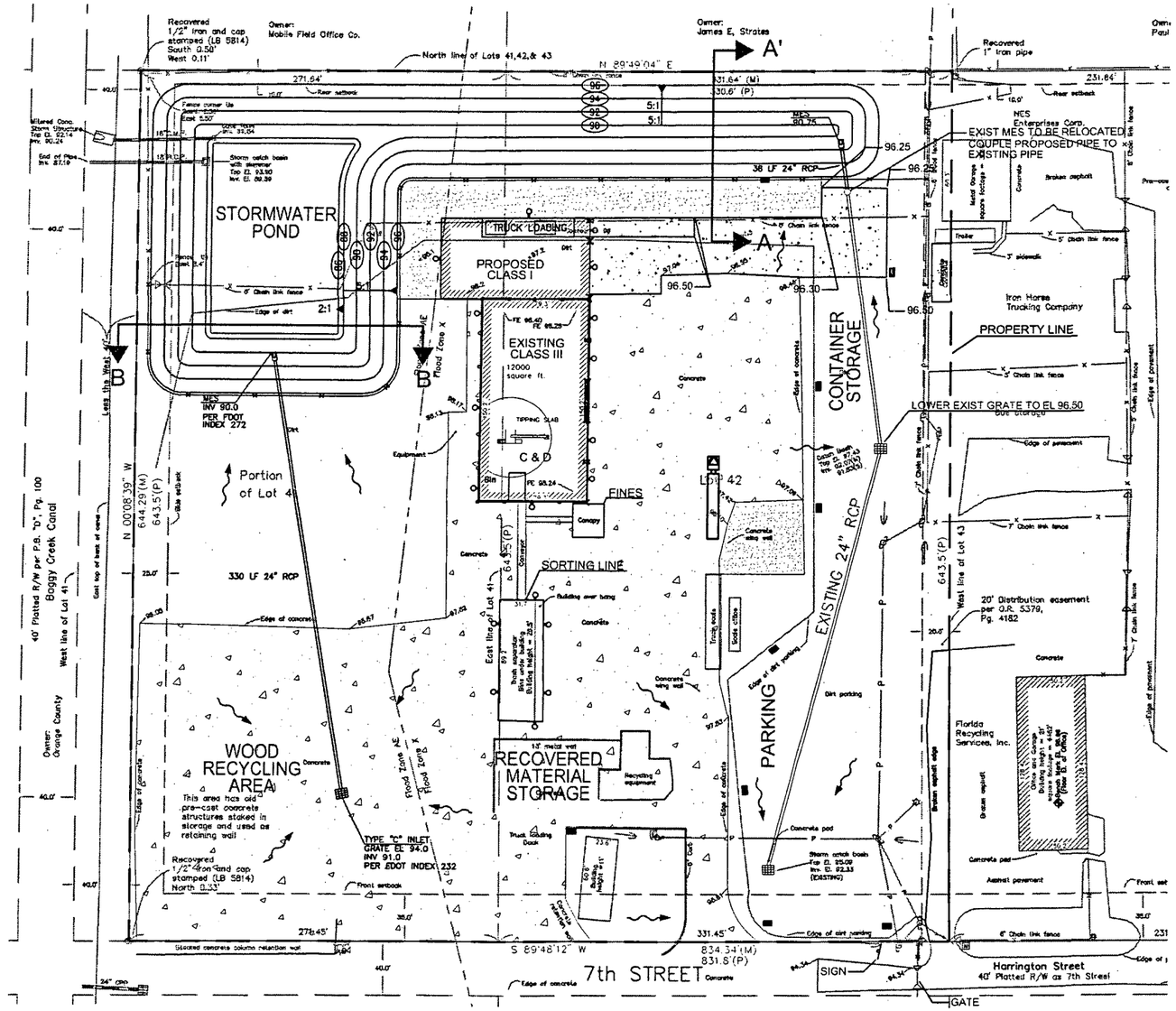
DATE	REVISIONS	REVISED	CHECKED

David L. Leggett, P.E.
P.E. No. 58667, FL
Engineering Business No. 9915
David L. Leggett
DATE 6-17-04

	BY	DATE
DESIGNED	DLL	8/04
DRAWN	DRD	8/04
CHECKED	JEG	8/04
QC APPROVAL		

FILE: 04297001D03.DWG

PROJECT NO. 04-297.001
SCALE NTS
SHEET G-1 OF



LEGEND

⊸	denotes sign
▱	denotes mitered end section
◁	denotes existing concrete area
☐	denotes proposed concrete area
☐	denotes proposed gravel area
▦	denotes storm catch basin
■	1000 W MH SHOEBOX OUTDORR LIGHT @ 39 FT AG
○	400 W METAL HALIDE LIGHT – BLDG MOUNT
— —	PROPERTY LINE
⤳	STORM WATER FLOW DIRECTION

HSA Golden
Environmental & Engineering Consultants
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Fax: 407 649-6582

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TAFT RECYCLING, INC.
ORANGE COUNTY, FLORIDA

CLASS I & III WPF
PROPOSED SITE PLAN

DATE	REVISIONS	REVISED	CHECKED

David L. Leggett, P.E.
P.E. No. 58667, FL
Engineering Business No. 9915
David L. Leggett
DATE 8-17-04

	BY	DATE
DESIGNED	DLL	7/04
DRAWN	DRD	7/04
CHECKED	DLL	8/04
QC APPROVAL	JEG	8/04
FILE: 04297001C05.DWG		

PROJECT NO.
04-297.001
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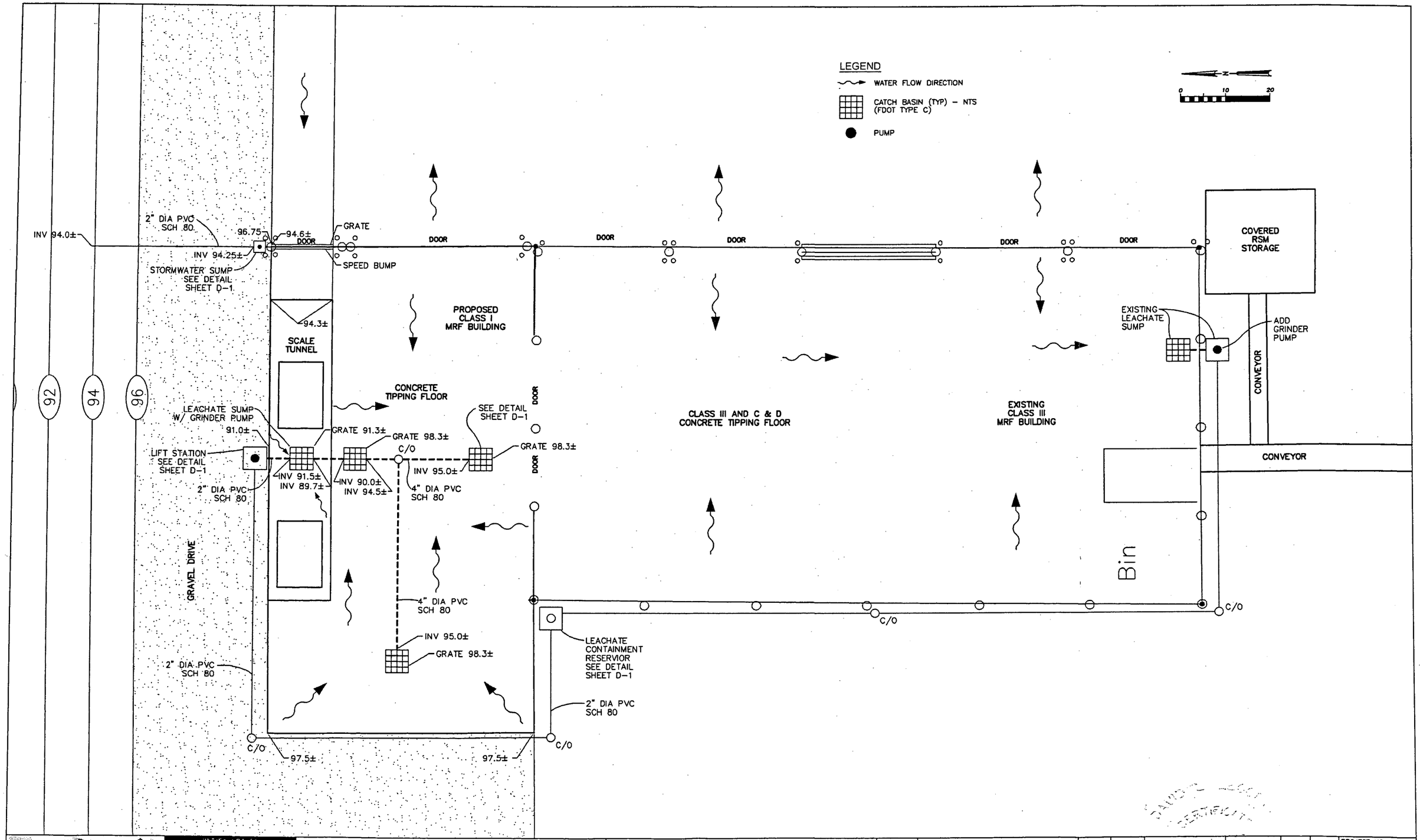

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TAFT RECYCLING, INC.
ORANGE COUNTY, FLORIDA

CLASS I & III WPF LEACHATE COLLECTION SYSTEM PLAN

DATE	REVISIONS	REVISED	CHECKED

David L. Leggett, P.E.
P.E. No. 58667, FL.
Engineering Business No. 9915

	BY	DATE
DESIGNED	JEG	8/04
DRAWN	DRD	8/04
CHECKED	DLL	8/04
QC APPROVAL		

DATE 8-17-04
FILE: 04297001C03.DWG

PROJECT NO. 04-297.001
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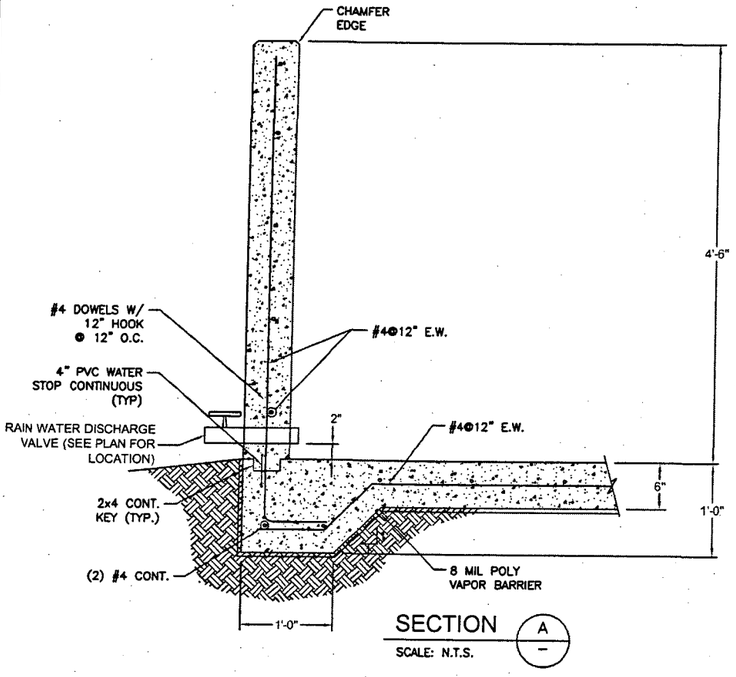
SHEET OF



SECTION A

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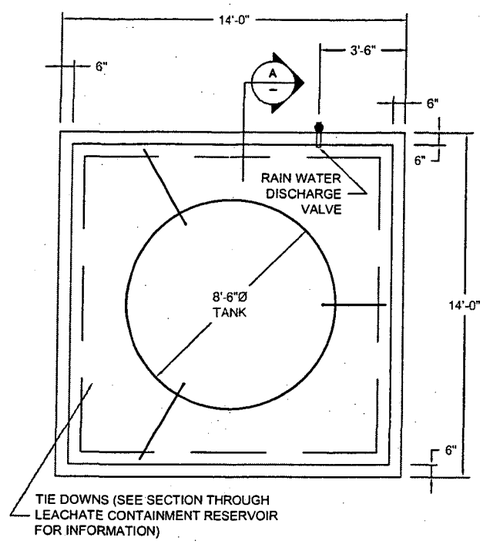

5236 GALLON LEACHATE CONTAINMENT RESERVOIR

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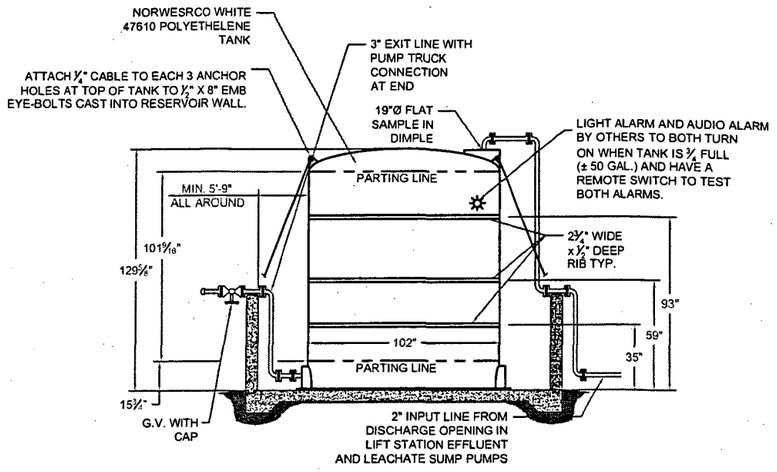
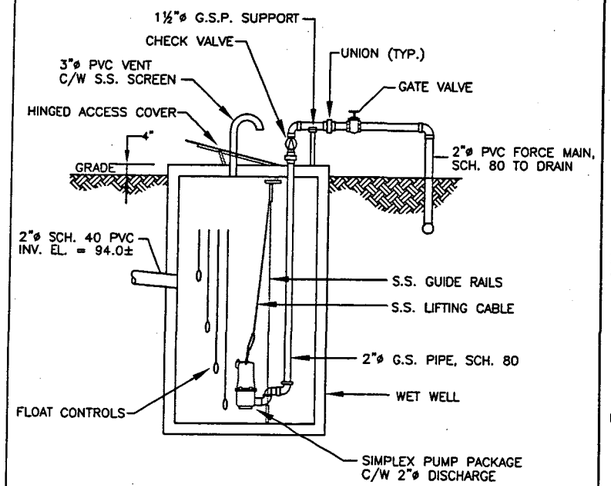


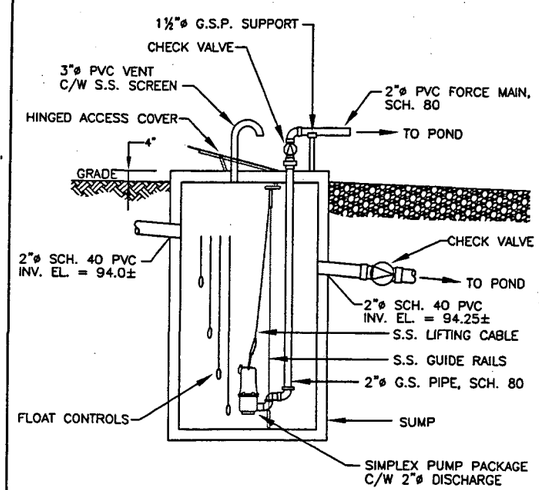
SECTION THROUGH LEACHATE CONTAINMENT RESERVOIR

SCALE: N.T.S.



LIFT STATION DETAIL

NOT TO SCALE (SCHEMATIC ONLY)



STORMWATER SUMP DETAIL

NOT TO SCALE (SCHEMATIC ONLY)

PLUMBING FIXTURE SCHEDULE

I.D. #	NAME	DESCRIPTION
TD1	TRENCH DRAIN	CONTRACTOR SHALL PROVIDE MATERIALS & LABOR REQUIRED FOR FINAL INSTALLATION & CONNECTIONS TO TRENCH DRAIN P-TRAP SHALL BE SCHEDULE 40 PVC
CO	CLEANOUT	JONESPEC MODEL CO-2450-PV4 (INTERIOR) SCORIATED FD TOP JONESPEC MODEL CO-2450-PV4-VP (EXTERIOR) ROUND TOP
HB	HOSE BIBB	CHICAGO MODEL 387, CHROME PLATED, COMPLETE WITH E27 SPOUT OUTLET, 3/4" CONNECTION, W/VACUUM BREAKER
NOTE: INSTALL FIXTURES IN ACCORDANCE W/ MANUFACTURER'S RECOMMENDATIONS		

PUMP SCHEDULE

I.D. #	LOCATION	MANUFACT.	MODEL	GPM	HEAD	HP	RPM	VOLTAGE
P1	SUBMERSIBLE GRINDER PUMP	GOULDS	1GD-SERIES	35	30'	2	3500	460v/3/60

NOTES: 1. ALL BRONZE IMPELLER
2. PUMP SYSTEM COMPLETE WITH WEATHER PROOF CONTROLLER W/ALARM
3. LIFT STATION PUMP SYSTEM PROVIDED BY OWNER

GENERAL PLUMBING NOTES

1. THIS DESIGN MEETS OR EXCEEDS THE REQUIREMENTS OF THE 2001 FLORIDA PLUMBING CODE AND ALL INSTALLATION SHALL CONFORM TO SAME.

2. THIS DRAWING IS GENERALLY DIAGRAMMATIC AND IS NOT TO BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR ACTUAL LOCATIONS OF FIXTURES. WHERE FIXTURE LOCATIONS ARE NOT SPECIFICALLY DETAILED, CONTRACTOR SHALL SUBMIT PREFERRED LAYOUT TO THE CONSULTANT PRIOR TO ROUGHING IN.

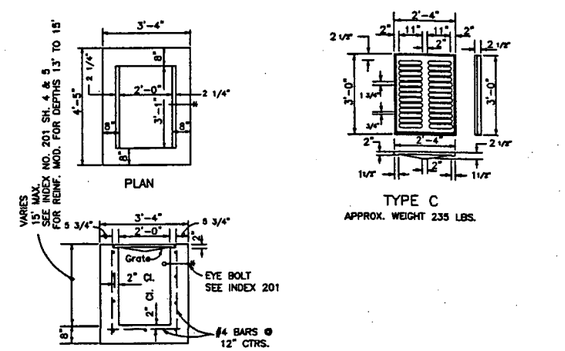
3. THESE DRAWINGS ARE TO BE CONSIDERED AN INTEGRAL PART OT THE SPECIFICATIONS WHICH ACCOMPANY THEM. ANY ITEM OR SUBJECT OMITTED FROM ONE BUT WHICH IS MENTIONED OR REASONABLY IMPLIED IN THE OTHER SHALL NOT RELIEVE THIS TRADE OF RESPONSIBILITY.

4. THIS TRADE MUST COORDINATE WORK WITH MECHANICAL, ELECTRICAL AND ARCHITECTURAL SYSTEMS TO AVOID CONFLICTS AND DELAYS.

DRAWING NOTES

(A) COORDINATE INVERT & MAKE FINAL CONNECTION TO LIFT STATION. FIELD VERIFY EXACT LOCATION AND EXTEND PIPE ACCORDINGLY.

(A) PROVIDE SHUT-OFF (BALL VALVE) IN RISER, MOUNT HOSE BIBB & VALVE 18" ABOVE FINISHED FLOOR.



LEACHATE CATCH BASIN DETAIL (FDOT TYPE "C")

SCALE: N.T.S.

HSA Golden
Environmental & Engineering Consultants
225 East Robinson Street
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32801
Tel: 407 649-5475
Fax: 407 649-6582

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TAFT RECYCLING, INC.
ORANGE COUNTY, FLORIDA

CLASS I AND III WPF DETAILS

DATE	REVISIONS	REVISED	CHECKED

David L. Leggett, P.E.
P.E. No. 58667, FL
Engineering Business No. 9915

	BY	DATE
DESIGNED	DLL	8/04
DRAWN	DRD	8/04
CHECKED	JEG	8/04
QC APPROVAL		

DATE 8-17-04

PROJECT NO. 04-297.001
SCALE AS NOTED
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FILE: 04297001D01.DWG
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ATTACHMENT E

FINANCIAL ASSURANCE

OPINION OF PROBABLE CLOSURE COSTS — TAFT RECYCLING, INC. — AUGUST 2004

Processed Material Stored	*Quantity (yds^3)*	*Estimated Density (lb/yds^3)*	*Quantity (tons)*	*Loading Costs* ($/yd^3$)*	*Total Loading Cost ($)*	*Estimated Truck Loads ($18\ yds^3$)*	*Cost per Load*($)*	*Total Hauling Cost ($)*	*Disposal ($/ton)*	*Total Disposal Cost**($)*	*Total: All Costs ($)*
Unprocessed Class III	700	605	211.8	2.55	1,785.00	39	150.00	5,850.00	17.20	3,642.96	11,277.96
Unprocessed C&D	700	650	227.5	2.55	1,785.00	39	150.00	5,850.00	17.20	3,913.00	11,548.00
Yard Trash	200	400	40.0	2.55	510.00	12	150.00	1,800.00	28.35	1,134.00	3,444.00
Recovered Concrete	200	2,596	259.6	1.55	310.00	12	160.00	1,920.00	0.00	0.00	2,230.00
Asphaltic Concrete	200	2,596	259.6	1.55	310.00	12	160.00	1,920.00	0.00	0.00	2,230.00
Roofing Tiles	200	2,000	200.0	2.05	410.00	12	155.00	1,860.00	17.20	3,440.00	5,710.00
Recovered Cardboard	60	350	10.5	1.55	93.00	5	140.00	700.00	17.20	180.60	973.60
Paper	60	400	12.0	2.05	123.00	5	150.00	750.00	17.20	206.40	1,079.40
Glass	60	600	18.0	2.05	123.00	4	150.00	600.00	17.20	309.60	1,032.60
Ferrous Metals	60	550	16.5	1.55	93.00	4	150.00	600.00	17.20	283.80	976.80
Aluminum	60	300	9.0	1.55	93.00	4	150.00	600.00	17.20	154.80	847.80
Plastic	60	150	4.5	2.05	123.00	5	150.00	750.00	17.20	77.40	950.40
Recovered Wood & Mulch	1,000	1,000	500.0	1.30	1,300.00	56	150.00	8,400.00	17.20	8,600.00	18,300.00
Tires	30	400	6.0	2.05	61.50	2	215.00	430.00	99.00	594.00	1,085.50
Class I Reject	700	400	140	2.55	1,785.00	39	150.00	5,850.00	30.65	4,291.00	11,926.00
RSM	100	1,000	50.0	1.55	155.00	6	160.00	960.00	17.20	860.00	1,975.00
Hazardous Materials*	55-Gal Drum			None		1	100.00	100.00	300.00	300.00	400.00
Sampling / Analysis*											1,500.00
Total											**77,487.06**
Contingency (15%)											**11,623.06**
Grand Total											**89,110.12**

*Estimated from costs previously provided by third party (to include inflation).
**Assumes waste other than concrete to be disposed at Orange County Class III landfill ($17.20/ton). If all is disposed at a Class I landfill, the cost would increase significantly.
(1) Vendors agreed to purchase all recovered concrete upon closure, letters previously submitted to the department.

The above referenced Opinion of Probable Closure Costs is an Engineer's opinion of probable costs for the facility, based upon number of assumptions. These costs may vary due to specific decisions made by the contractor including cost and extent of labor, equipment and materials, and market conditions, and a variety of other conditions over which the engineer and/or HSA Golden have no control.

HSA GOLDEN
225 East Robinson Street, Suite 100
Orlando, Florida 32801

David L. Leggett 8-17-04
David L. Leggett, P.E.
Florida Registration #58667

ATTACHMENT F

GEOTECHNICAL REPORT

ATTACHMENT F

The geotechnical report included herein is the initial report prepared to support the development of the Class III WPF and was prepared by Geotechnical Professional Associates, Inc., of Orlando, Florida, in August 2000. An updated geotechnical report to support this permit application is being prepared by Yovaish Engineering Sciences, Inc., of Altamonte Springs, Florida, and will be submitted to the Department under separate cover.

Preliminary Subsurface Soil Exploration
Proposed Florida Recycling Services
South Orlando Transfer Station
Orange County, Florida

GPA

Geotechnical Professional Associates, Inc.
GPA
Geotechnical & Environmental Consultants

August 21, 2000
File No. 00-1053

Hartman & Associates, Inc.
201 E. Pine Street, Suite 1000
Orlando, Florida 32801

Attention: Mr. Jim Golden

Subject: Preliminary Subsurface Soil Exploration
Proposed Florida Recycling Services
South Orlando Transfer Station
Orange County, Florida

Dear Mr. Golden:

As requested and authorized by you, we have completed a preliminary subsurface soil exploration for the subject project. The purpose of performing this exploration was to evaluate the general subsurface soil conditions at five locations on the site as designated by you. This report documents our findings.

SITE LOCATION AND SITE DESCRIPTION

The subject site is located on 7th Street in Taft, Orange County, Florida. The site is currently relatively clear and occupied by various storage trailers.

FIELD EXPLORATION PROGRAM

The field exploration program consisted of performing five Standard Penetration Test (SPT) borings at locations selected by you. The locations of these borings are schematically illustrated on a site plan shown on Figure 1.

The borings were advanced to depths of thirty feet below the ground surface using the methodology outlined in ASTM D-1586. A summary of this field procedure is included in the Appendix. Split spoon soil samples recovered during performance of the borings were visually classified in the field and representative portions of the samples were transported to our laboratory in sealed sample jars for further classification and laboratory testing.

The groundwater level at each of the boring locations was measured upon completion of drilling.

LABORATORY TESTING PROGRAM

Representative soil samples obtained during our field sampling operation were packaged and transferred to our laboratory for further visual examination and classification. The soil samples were visually classified in general accordance with the Unified Soil Classification System (ASTM D-2488). The resulting soil descriptions are shown on the soil boring profiles presented on Figure 2.

GENERAL SUBSURFACE CONDITIONS

General Soil Profile

The results of the field exploration and laboratory testing programs are graphically summarized on the soil boring profiles presented on Figure 2. The stratification of the boring profiles represents our interpretation of the field boring logs and the results of laboratory examinations of the recovered samples. The stratification lines represent the approximate boundary between soil types. The actual transitions may be more gradual than implied.

The results of our test borings indicate that the soil profile consists primarily of fine sands to silty fine sands. SPT N values indicate that the relative density of the soil ranges from loose to medium dense. Several borings encountered varying degrees and significant amounts of organic/concrete debris (fill). Clayey fine sand was encountered between depths of 22.5 and 30 feet in borings B-2 and B-3. Additionally, the SPT sampler was advanced by the weight of the drilling rods (WOR) at 28.5 feet deep, indicating very loose conditions or a void.

The above soil profile is outlined in general terms only. Please refer to Figure 2 for soil profile details.

Measured Groundwater Level

The groundwater level was measured in the boreholes on the day drilled after stabilization of the downhole water level. The measured groundwater level was encountered at depths ranging from 8 to 8.5 feet below the existing ground surface on the date drilled. Fluctuations in groundwater levels should be anticipated throughout the year primarily due to seasonal variations in rainfall and other factors that may vary from the time the borings were conducted.

NORMAL SEASONAL HIGH WATER TABLE

The normal seasonal high water table each year is the level in the August-September period at the end of the rainy season. The water table elevations associated with a 100-year flood level would be much higher than the normal seasonal high water table elevations. The normal high water levels would more approximate the seasonal high water table elevations.

The seasonal high water table is affected by a number of factors. The drainage characteristics of the soils, the land surface elevation, relief points such as lakes, rivers, swamp areas, etc., and distance to relief points are some of the more important factors influencing the seasonal high water table elevation.

Based on our interpretation of the site conditions using our boring logs, we estimate the normal seasonal high groundwater table to be approximately 2 feet above the groundwater levels shown on Figure 2.

PRELIMINARY ENGINEERING EVALUATION

The borings for this preliminary subsurface soil exploration indicate that there are two major soil conditions on-site that exhibit very different suitabilities for the proposed facility based on foundation considerations.

The organic/concrete debris, as encountered in several of the borings, may not be suitable for supporting the proposed structure(s). This material, when loaded by a structure, may cause significant and uneven structure settlement. Although significant thicknesses of this material were only encountered in two borings, our concern is that this may represent an uncontrolled excavation/fill process. Other similar areas may exist on the site.

With the exception of the organic/concrete debris encountered in Borings B-1, B-5, and possibly B-4, the existing sandy soils, with proper site preparation (i.e.; stripping, grubbing, compacting, and addition of fill soils as required, etc.), should be suitable for supporting the proposed structures on conventional shallow foundations. Fill soils, including existing fill and future fill, must be compacted.

We recommend that once the proposed structure locations (i.e., those structures requiring shallow foundations and concrete slabs supporting heavy loads) are finalized, additional field exploration be conducted. This additional field program should primarily consist of excavating test pits within the "footprints" of the proposed structures. Geotechnical Professional Associates' representative should be present during this test pit exploration to observe the soil conditions and to determine the suitability of the soils for the proposed construction. Additional SPT borings should also be conducted in proposed structure areas not covered by the SPT borings done during this study.

Without the aid of exact structure locations and loading conditions, the following are our <u>preliminary recommendations</u> for those structure areas containing buried debris:

This organic/concrete debris and/or soil containing significant debris should be removed from beneath the proposed structure areas to a horizontal distance of 5 feet beyond the "footprint" of the structure. Where relatively deep deposits of debris (i.e., deeper than 5 feet below existing ground) is encountered below a structure area, we recommend that the debris be excavated to its entire depth to a horizontal distance equivalent to the depth of the debris below the existing ground surface (e.g.; if debris is encountered to a depth of 10 feet in a structure area, the debris should be excavated to its entire depth and to a horizontal limit of 10 feet beyond the outside edge of the structure).

Based on the results of our borings, this buried debris may exist at depths up to 27 feet below the ground surface. It will likely be cost prohibitive to overexcavate this debris to depths greater than 10 or 15 feet. Depending on the foundation types and loading conditions, it may be possible to undergo a partial excavation of the debris in order to provide suitable foundation material for the proposed structures. For

massive excavation and dewatering problems. A geotextile filter fabric could then be placed in the bottom of excavation and the excavations backfilled with compacted fill soils. More detailed engineering analyses would need to be conducted to provide final recommendations for this option.

The excavated debris must not be used as structural fill and should be disposed of as directed by the owner.

CLOSURE

The data and preliminary recommendations submitted herein are based on the results of borings presented on Figure 2. This report does not reflect any variations which may occur adjacent to or between the borings. The nature and extent of the variations between the borings may not become evident until during further exploration or construction. If variations then appear evident, it will be necessary to re-evaluate the conclusions presented in this report after performing on-site observations and noting the characteristics of the variations.

This study is based on relatively shallow explorations and is not intended to be an evaluation for sinkhole potential. It is also noted that this report does not include an evaluation of the environmental (ecological or hazardous/toxic material related) condition of the site and subsurface.

This report has been prepared for the exclusive use of Hartman & Associates, Inc. in accordance with generally accepted soil and foundation engineering practices. In the event any changes occur in the design, nature, or location of the proposed facility, we should review the applicability of conclusions and recommendations in this report. We also recommend a general review of final design and specifications by our office to make sure that earthwork and foundation recommendations are properly interpreted and implemented in the design specifications.

We are pleased to be of assistance to you on this phase of your project. When we may be of further service to you or should you have any questions, please contact us.

Sincerely,

GEOTECHNICAL PROFESSIONAL ASSOCIATES, INC.

Shelley B. Gisclar, P.E.
President

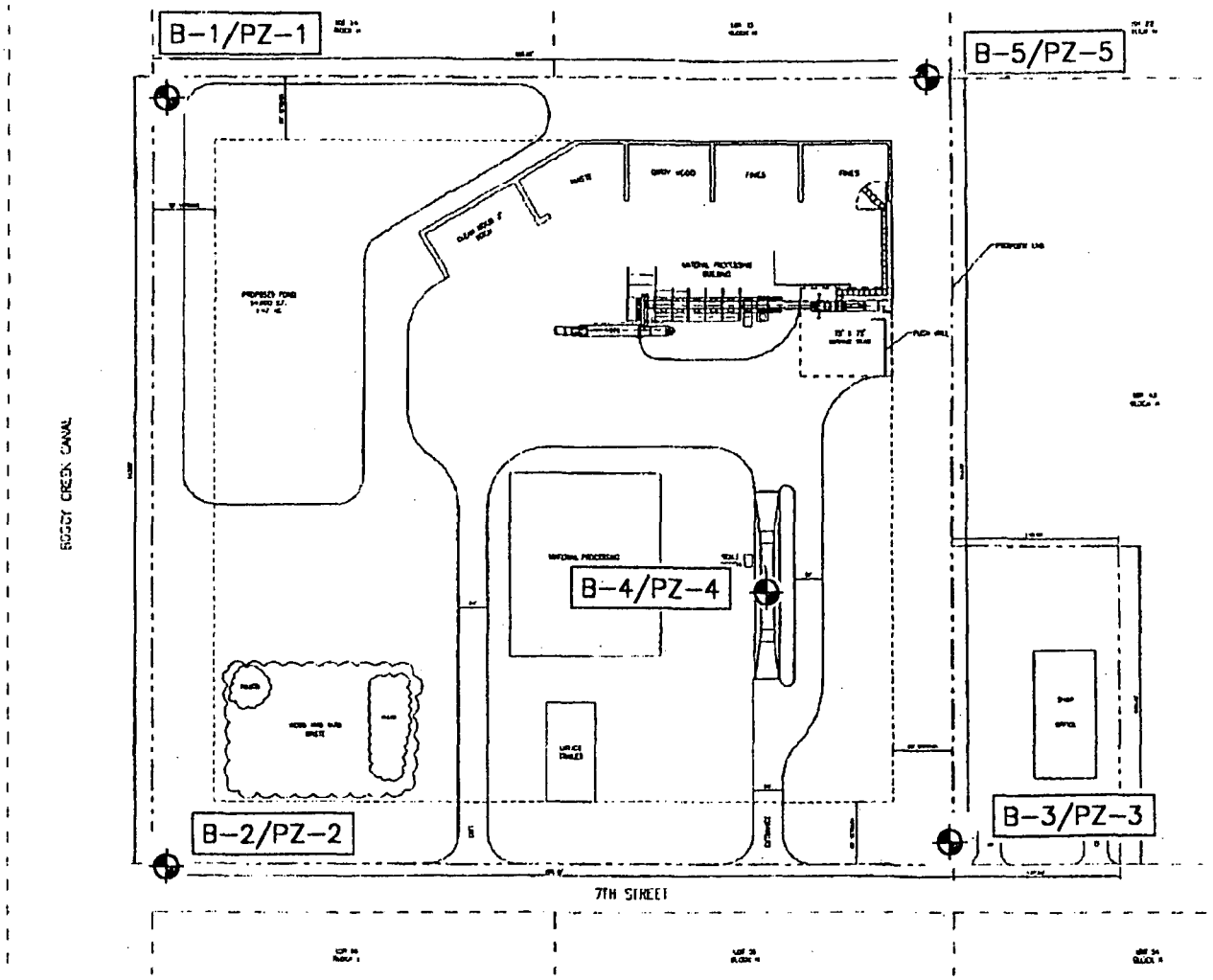
Christopher P. Meyer, P.E.
Senior Project Engineer
Florida Registration No. 49328

8-22-00

CPM/TLS/vfs

\\Main\main c\2000projects\00-1053\Fl Recycling Services.wpd

GPA



LEGEND

B- STANDARD PENETRATION TEST (SPT) BORING LOCATION

N

BORING LOCATION PLAN

GPA FILE NO. 00-1063	GEOTECHNICAL PROFESSIONAL ASSOCIATES, INC. 6816 HANGING MOSS RD. (407) 671-8554 ORLANDO, FLORIDA 32807 Fax: (407) 671-5540	Proposed Recyclery Taft, Florida

FIGURE 1

LEGEND

NOTES:

1. UPON COMPLETION OF BORINGS, THE BOREHOLES WERE BACKFILLED WITH SOIL CUTTINGS UNLESS OTHERWISE NOTED.

SAND (SP)
SAND WITH SILT (SP-SM)

FINE SAND TO SILTY FINE SAND WITH ORGANIC/ CONCRETE DEBRIS

CLAYEY SAND (SC)

SILTY SAND (SM)

SILTY CLAYEY SAND (SM,SC)

B- ⊕ STANDARD PENETRATION TEST (SPT) BORING LOCATION

SP,SP-SM
SM,SC,CH,ML — UNIFIED SOIL CLASSIFICATION SYSTEM

← COMPLETE LOSS OF DRILLING FLUID CIRCULATION

N STANDARD PENETRATION RESISTANCE IN BLOWS PER FOOT

▽ GROUNDWATER LEVEL MEASURED ON DATE DRILLED

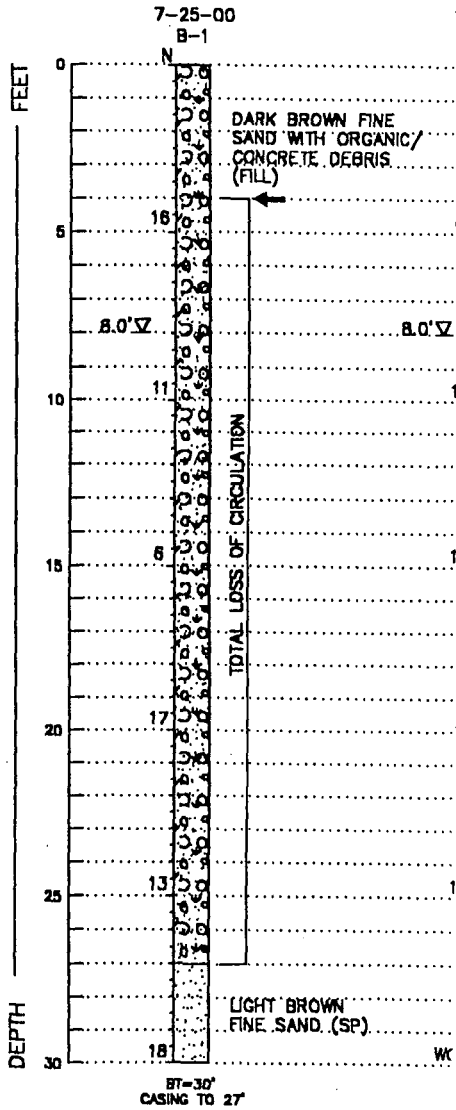
B.T. BORING TERMINATION DEPTH IN FEET

WOR SAMPLER ADVANCED BY WEIGHT OF RODS ONLY

ENGINEERING CLASSIFICATION

I COHESIONLESS SOILS

DESCRIPTION	BLOW COUNT "N"
VERY LOOSE	0 TO 4
LOOSE	4 TO 10
MEDIUM DENSE	10 TO 30
DENSE	30 TO 50
VERY DENSE	>50



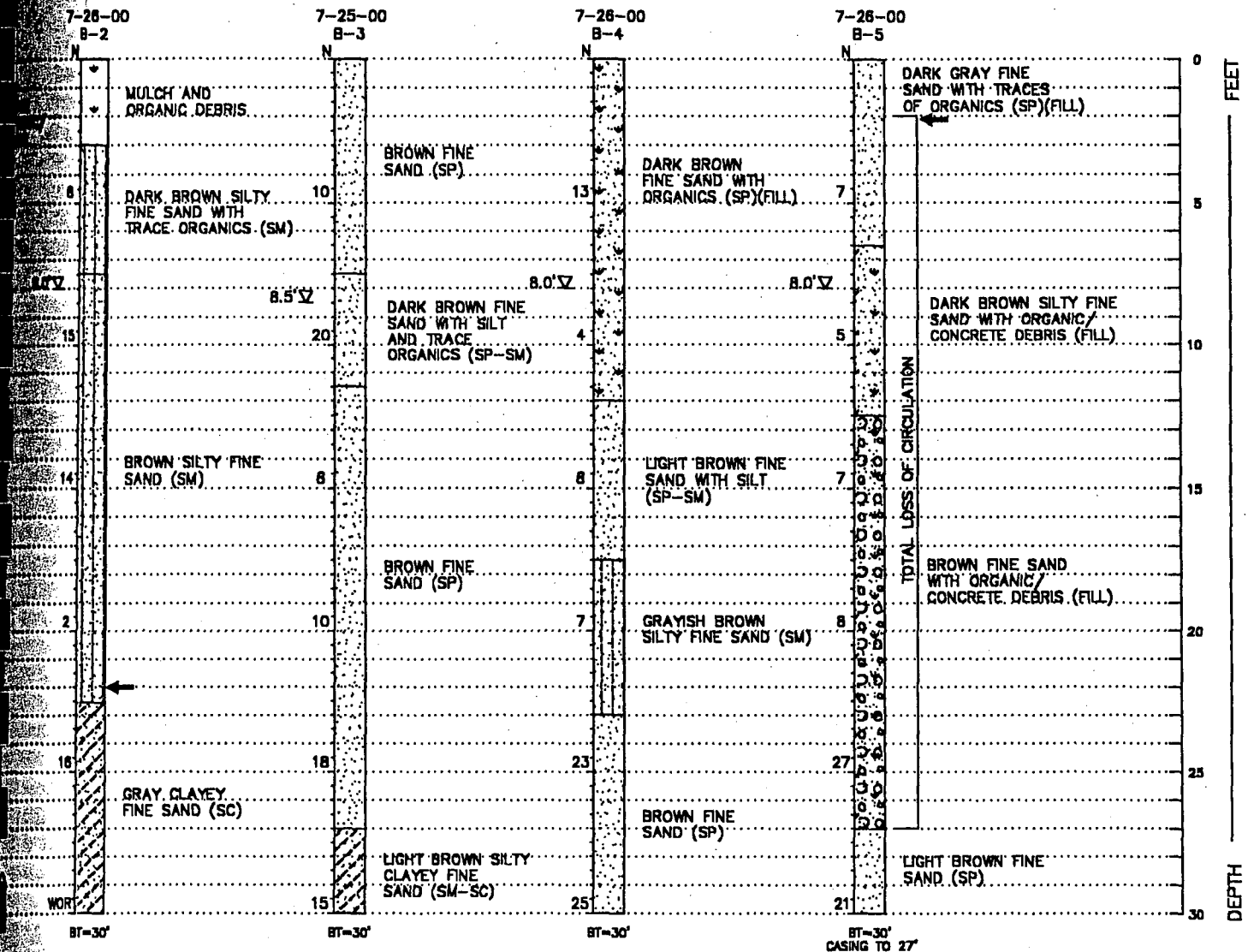
STANDARD PENETRATION TEST DATA:
SPOON I.D.= 1.5 IN
SPOON O.D.= 2.0 IN
HAMMER DROP= 30 IN
HAMMER WEIGHT= 140 LB
HAMMER TYPE= MANUAL
DRILL RIG: CME 75

WHILE THE BORINGS ARE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT THEIR RESPECTIVE LOCATIONS AND FOR THEIR RESPECTIVE VERTICAL REACHES, LOCAL VARIATIONS CHARACTERISTIC OF THE SUBSURFACE MATERIALS OF THE REGION ARE ANTICIPATED AND MAY BE ENCOUNTERED. THE BORING LOGS AND RELATED INFORMATION ARE BASED ON THE DRILLER'S LOGS AND VISUAL EXAMINATION OF SELECTED SAMPLES IN THE LABORATORY. THE DELINEATION BETWEEN SOIL TYPES SHOWN ON THE LOGS IS APPROXIMATE AND THE DESCRIPTION REPRESENTS OUR INTERPRETATION OF SUBSURFACE CONDITIONS AT THE DESIGNATED BORING LOCATIONS ON THE PARTICULAR DATE DRILLED.

GROUNDWATER ELEVATIONS SHOWN ON THE BORING LOGS REPRESENT GROUNDWATER SURFACES ENCOUNTERED ON THE DATES SHOWN. FLUCTUATIONS IN WATER TABLE LEVELS SHOULD BE ANTICIPATED THROUGHOUT THE YEAR.

CADD FILE: 00-1053 8/15/00

REVISIONS							NAMES	DATES	ENGINEER OF RECORD: CHRISTOPHER P. MEYER, P.E. FL/REG. NO. 49328 GEOTECHNICAL PROFESSIONAL ASSOC., INC. 6816 HANSEL MOSS ROAD ORLANDO, FL 32807	LOGO
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	Drawn by	KLG	8/00		
						Designed by	CPM	8/00		
						Checked by				
						Approved by				



BORING PROFILES

LOGO	SEAL	CLIENT	PROJECT NAME
GPA		HARTMAN & ASSOCIATES	PROPOSED RECYCLERY TAFT, FLORIDA
		CLIENT PROJECT NO. / COUNTY / GPA PROJECT NO.	
		DRAWN:	00-1053

FIGURE 2

APPENDIX

Auger Boring Procedure

AUGER BORINGS

Auger borings are used when a relatively large, continuous sampling of soil strata close to ground surface is desired. A 4-inch diameter, continuous flite, helical auger with a cutting head at its end is screwed into the ground in 5-foot sections. It is powered by the rotating action of the Kelley bar of a rotary drill rig. The sample is recovered by withdrawing the auger out of the ground without rotating it. The soil sample so obtained, is classified and representative samples put in bags or jars and brought back to the laboratory for classification testing.

ATTACHMENT G

DEP ERP

ATTACHMENT G

Included herein is the existing ERP for the subject site. A permit modification has been submitted to the Department's Environmental Resource Permitting section under separate cover.

/ AT 1 04-297.001

Department of Environmental Protection

Jeb Bush
Governor

Central District
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767

David B. Struhs
Secretary

PROJECT INFORMATION:
Permit Number: ERP48-0179138-001
Expiration Date: July 15, 2006
County: Orange
Latitude: 28° 25' 33.5"N;
Longitude: 81°22' 58.5"W;
Section 2/Township 24 South/Range 29 East
Project: Taft Recycling – South Orlando

PERMITTEE:
Taft Recycling, Inc.
1099 Miller Drive
Altamonte Springs, FL 32701

Attention: Joe Briarton, Regional Manager

Orange County - ERP
File No. 48-0179138-001

Dear Mr. Briarton:

This permit is issued under the provisions of Part IV of Chapter 373, *Florida Statutes* (F.S.) and Chapters 62-4, 62-302, 62-330, 62-343, 40E-4, 40E-40, and 40E-41, *Florida Administrative Code* (F.A.C.). The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

Construct and Operate: a stormwater management system associated with the construction of additional impervious area and a Class II Material Recovery Facility. The stormwater management system will consist of a wet detention pond with a pond bottom elevation of 84.0 N.G.V.D., top of bank elevation of 96.0 feet N.G.V.D., and side slopes of 5:1(horizontal:vertical) to 2-feet below the control elevation. The control structure will consist of a 3-inch diameter circular orifice with an invert of 90.0 N.G.V.D., and a rectangular weir with a crest elevation of 94.0 N.G.V.D.. The wet detention pond will also provide for 1.24 acre-feet of compensating storage as a result of fill within the 100-year floodplain.

Figures 1 through 6 will be attached to, and become a part of, this permit.

Location: 375 7th Street, Taft, Orange County, Florida.

Other Permits: Solid Waste Construct Permit

If there are any questions, please contact Gail Mowry, P.E., of the Submerged Lands and Environmental Resource Program by telephone (407/893-3307), fax (407/893-3075), or internet (Gail.Mowry@dep.state.fl.us).

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

George Gionis
Program Administrator
Submerged Lands and Environmental Resources
Program

Date: July 19, 2001

FILING AND ACKNOWLEDGEMENT FILED, on this date, pursuant to §120.52(11), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Jan Murray 07-19-01
Clerk Date

GG/sw/glm

Enclosures: Permit No. ERP48-0179138-001

Copies furnished to: Roderick Cashe, P.E., Hartman & Associates, Inc. (email)
George Genero, Hartman & Associates, Inc. (email)
Ed Yaun, P.E., SFWMD(Orlando) (email)

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on 7/20/01 to the listed persons by Deanna Dees.

Rev. 4/91

Department of Environmental Protection

Jeb Bush
Governor

Central District
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767

David B. Struhs
Secretary

NOTICE OF PERMIT

CERTIFIED
7099 3220 0006 8682 5818

In the Matter of an
Application for Permit by:
Taft Recycling, Inc.
1099 Miller Drive
Altamonte Springs, FL 32701

Attention: Joe Briarton, Regional Manager

Orange County - ERP
Taft Recycling-South Orlando
File No. 48-0179138-001

Dear Mr. Briarton:

Enclosed is Permit Number ERP48-0179138-001 to construct a stormwater management system associated with the construction of additional impervious area and the Class II Material Recovery Facility, located at 375 7th Street, Taft, Orange County, Florida, issued pursuant to Section 373.118, 373.413, 373.416, and 373.426, *Florida Statutes* (F.S.) and Rules 62-4, 62-302, 62-330, 62-343, 40E-4, 40E-40, and 40E-41, *Florida Administrative Code* (F.A.C.).

Pursuant to Operating Agreements executed between the Department and the water management districts, as referenced in Chapter 62-113, F.A.C., the Department is responsible for reviewing this application.

Any party to this Order (permit) has the right to seek judicial review of the permit pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000; and by filing a copy of the notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this notice is filed with the Clerk of the Department.

Mediation under section 120.573 of the Florida Statutes is not available for this proceeding.

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.727, or 403.859 through 403.861, F.S. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violations of these conditions.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.

3. As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.

4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

6. The permittee shall properly operate and maintain the facility and systems of treatment and control(and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:

   (a) Have access to and copy any records that must be kept under conditions of the permit;

   (b) Inspect the facility, equipment, practices, or operations regulated or required under this permit; and

   (c) Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

   Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any conditions or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

   (a) A description of and cause of noncompliance; and
   (b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

GENERAL CONDITIONS:

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Section 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Rule 62-4.120 and 62-30.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. This permit also constitutes:

( ) Determination of Best Available Control Technology (BACT)
( ) Determination of Prevention of Significant Deterioration (PSD)
( ) Certification of compliance with state Water Quality Standards (Section 401, PL 92-500)
( ) Compliance with New Source Performance Standards

14. The permittee shall comply with the following:

(a) Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.

(b) The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date the sample, measurement, report, or application unless otherwise specified by Department rule.

(c) Records of monitoring information shall include:

1. the date, exact place, and time of sampling or measurements;
2. the person responsible for performing the sampling or measurements;
3. the dates analyses were performed;
4. the person responsible for performing the analyses;
5. the analytical techniques or methods used;
6. the results of such analyses.

15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware the relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

SPECIFIC CONDITIONS:

PERMIT ALTERATIONS

1. All construction, operation, and maintenance shall be as set forth in the plans, specifications and performance criteria contained in the Department's files and approved by this permit. Any alteration or modification to the stormwater system as permitted requires prior approval from the Department.

2. If any other regulatory agency should require revisions or modifications to the permitted project, the Department is to be notified of the revisions so that a determination can be made whether a permit modification is required.

3. Permittee must obtain a permit from the Department prior to beginning construction of subsequent phases or any other work associated with this project not specifically authorized by this permit.

SITE INSPECTION BY DEP STAFF

4. Department-authorized staff, upon proper identification, will have permission to enter, inspect, and observe the system to insure conformity with the plans and specifications approved by the permit. The plans are on file in the Central District Office of the Department of Environmental Protection.

WATER QUALITY

5. Turbidity must be controlled to prevent violations of water quality pursuant to Rule 62-302.510(5)(r), *Florida Administrative Code*. Turbidity shall not exceed 29 Nephelometric Turbidity Units above natural background conditions. Turbidity barriers shall be correctly installed at all locations where the possibility of transferring suspended solids into the receiving waterbody exists due to the proposed work. It is understood that "receiving waterbody" shall not be construed to mean the permittee's settling pond, dredge lake, or other parts of the permittee's closed water system. Turbidity barriers shall remain in place at all locations until construction is completed, soils are stabilized, and vegetation has been established.

   Upon final completion of the project and upon reasonable assurance that the project is no longer a potential turbidity source, the permittee will be responsible for the removal of the barriers.

SPECIFIC CONDITIONS:

CONSTRUCTION DETAILS

6. The permittee shall require the contractor to review and to maintain in good condition at the construction site a copy of this permit complete with all conditions, attachments, exhibits, and permit modifications issued for this permit. The complete permit copy must be available for review upon request by Department representatives.

7. Before any offsite discharge from the stormwater management system occurs, the retention and detention storage must be excavated to rough grade prior to building construction or placement of impervious surface within the area served by those systems.

   Adequate measures must be taken to prevent siltation of these treatment systems and control structures during construction or siltation must be removed prior to final grading and stabilization.

8. **The attached construction commencement notice [Form 62-343.900(3) F.A.C.] must be received by the Department at least seven (7) days prior to the start of construction. The notice should include when construction will begin and approximately how long it will continue. If the construction term should exceed one year, an Annual Status Report for Surface Water Management System Construction must be submitted [see attached Form 62-343.900(4) F.A.C.].**

EROSION CONTROL MEASURES

9. Prior to and during construction, the permittee shall correctly implement and maintain all erosion and sediment control measures (best management practices) required to retain sediment on-site and to prevent violations of state water quality standards. All practices must be in accordance with the guidelines and specifications in Chapter 6 of the Florida Land Development Manual: A Guide to Sound Land and Water Management (FDEP 1988), which are hereby incorporated by reference, unless a project specific erosion and sediment control plan is approved as part of the permit, in which case the practices must be in accordance with the plan.

   If site specific conditions require additional measures during any phase of construction or operation to prevent erosion or control sediment, beyond those specified in the erosion and sediment control plan, the permittee shall implement additional best management practices as necessary, in accordance with the specification in Chapter 6 of the Florida Land Development Manual: A Guide to Sound Land and Water Management (FDEP 1988). The permittee shall correct any erosion or shoaling that causes adverse impacts to the water courses.

SPECIFIC CONDITIONS:

10. The following measures shall be taken to minimize erosion:

    A. Swales and dry ponds: sodding of all side slopes; seeding and mulching of flat-lying bottom areas; and
    B. Wet ponds: sodding of all side slopes to the control elevation or to the beginning of the littoral zone vegetation; and
    C. Berms and other disturbed flat-lying areas: seed and mulch.

    Stabilization measures shall be initiated for erosion and sediment control on disturbed areas as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than seven (7) days after the construction activity in that portion of the site has temporarily or permanently ceased.

11. All wetland areas or water bodies which are outside of the specific limits of construction authorized by this permit must be protected from erosion, siltation, scouring or excess turbidity and dewatering.

SUBMITTAL OF AS-BUILT PLANS

12. Within 30 days after completion of construction of the surface water management system, the permittee shall submit the attached form [Form 62-343.900(5) F.A.C.] and two sets of record drawings of the project as actually constructed thereby notifying the Department that the facilities area ready for final inspection and approval. The permittee shall also submit the attached form [Form 62-343.900(5) F.A.C.] "Request for Transfer of Environmental Resource Permit Construction Phase to Operation Phase". The permit will be converted from a construction permit to an operation permit once the project is determined to be in compliance with the permitted plans and with conditions provided in 40E-4.361, F.A.C.

13. The location of at least one bench mark (and it corresponding elevation) per stormwater pond should be placed in the vicinity of each inlet or outlet structure and will be clearly shown on the as-built plans provided to the Department.

INSPECTION REPORTS

14. An inspection report for the stormwater management system shall be submitted to the Department two years after completion of construction and every two years thereafter on the attached form [Form 62-343.900(6) F.A.C.].

Form #62-343.900(3) F.A.C.
Form Title: Construction Commencement Notice
Effective Date: October 3, 1995

ENVIRONMENTAL RESOURCE PERMIT
CONSTRUCTION COMMENCEMENT NOTICE

Project Name: _____ Phase: _____

I hereby notify the Department of Environmental Protection that the construction of the surface water management system authorized by Environmental Resource Permit No. _____ has commenced/is expected to commence on _____ and will require a duration of approximately _____ months _____ weeks to complete. It is understood that should the construction term extend beyond one year, I am obligated to submit the Annual Status Report for Surface Water Management System Construction.

PLEASE NOTE: If the actual construction commencement date is not known, Department staff should be so notified in writing to satisfy permit conditions.

_____ _____
Permittee or Authorized Agent Title and Company

_____ _____
Company Address Date

_____
City, State, Zip Code

_____
Telephone Number

Please send the completed form to:

Florida Department of Environmental Protection
Submerged Lands and Environmental Resources Program
3319 Maguire Blvd., Suite 232
Orlando, FL 32803

Form #62-343.900(5), F.A.C.
Form Title: As-Built Certification by a Registered Professional
Date: October 3, 1995

ENVIRONMENTAL RESOURCE PERMIT
AS-BUILT CERTIFICATION BY A REGISTERED PROFESSIONAL

Permit Number: _____

Project Name: _____

I hereby certify that all components of this surface water management system have been built substantially in accordance with the approved plans and specifications and are ready for inspection. Any substantial deviations (noted below) from the approved plans and specifications will not prevent the system from functioning as designed when properly maintained and operated. These determinations are based upon on-site observation of the system conducted by me or by my designee under my direct supervision and/or my review of as-built plans certified by a registered professional or other appropriate individual as authorized by law.

_____	_____
Name (please print)	Signature of Professional
_____	_____
Company Name	Florida Registration Number
_____	_____
Company Address	Date
_____	
City, State, Zip Code	
_____	
Telephone Number	(Affix Seal)

Substantial deviations from the approved plans and specifications:

_____

_____

_____

_____

(Note: attach two copies of as-built plans when there are substantial deviations)

Within 30 days of completion of the system, submit two copies of the form to:

_____

_____

_____

Form #62-343.900(7), F.A.C.
Form Title: Request for Transfer to Operation Phase
Date: October 3, 1995

REQUEST FOR TRANSFER OF ENVIRONMENTAL RESOURCE PERMIT CONSTRUCTION PHASE TO OPERATION PHASE

(To be completed and submitted by the operating entity)

Florida Department of Environmental Protection

_____

_____

_____

It is requested that Department Permit No. _____ authorizing the construction and operation of a surface water management system for the below mentioned project be transferred from the construction phase permittee to the operation phase operating entity.

PROJECT:_____

FROM: Name:_____
Address:_____
City:_____ State:_____
Zipcode:_____

TO: Name:_____
Address:_____
City:_____ State:_____
Zipcode:_____

The surface water management facilities are hearby accepted for operation and maintenance in accordance with the engineers certification and as outlined in the restrictive covenants and articles of incorporation for the operating entity. Enclosed is a copy of the document transferring title of the operating entity for the common areas on which the surface water management system is located. Note that if the operating entity has not been previously approved, the applicant should contact the Department staff prior to filing for a permit transfer.

The undersigned hearby agrees that all terms and conditions of the permit and subsequent modifications, if any, have been reviewed, are understood and are hearby accepted. Any proposed modifications shall be applied for and obtained prior to such modification.

Operating Entity _____

Name _____ Title _____

Telephone _____

Enclosure:
(.) Copy of recorded transfer of title surface water management system
( ) Copy of plat(s)
( ) Copy of recorded restrictive covenants, articles of incorporation, and certificate of incorporation

Form # 62-343.900(6), F.A.C.
Form Title: Inspection Certification
Date: October 3, 1995

ENVIRONMENTAL RESOURCE PERMIT
INSPECTION CERTIFICATION

Permit Number: _____

Project Name: _____

Inspection Date(s): _____

Inspection Results: (check one)

____I hearby certify that I or my designee under my direct supervision have inspected the system at the above referenced project and that the system appears to be functioning in accordance with the requirements of the permit and Chapter 373 F.S. (as applicable).

____The following necessary maintenance was conducted:

_____

_____

____I hearby certify that I or my designee under my direct supervision has inspected the system at the above referenced project and that the system does not appear to be functioning in accordance with the requirements of the permit and Chapter 373 F.S. (as applicable). I have informed the operation and maintenance entity of the following: (a) that the system does not appear to be functioning properly, (b) that maintenance is required to bring the system into compliance, and (c) if maintenance measures are not adequate to bring the system into compliance, the system may have to be replaced or an alternative design constructed subsequent to Department approval.

_____ _____
Name (please print) Signature of Professional Engineer

_____ _____
Company Name Florida Registration Number

_____ _____
Company Address Date

_____
City, State, Zip Code

_____
Telephone Number (Affix Seal)

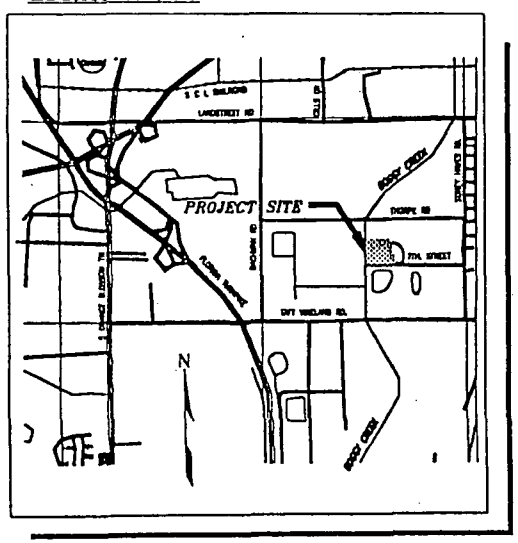
Within 30 days of completion of the inspection, submit two copies of this form to the following Department Office:

Department of Environmental Protection

_____
_____
_____

CONSTRUCTION DRAWINGS
FOR
TAFT RECYCLING, INC.
SOUTH ORLANDO TRANSFER STATION

LOCATION MAP



DESCRIPTION (WRITTEN BY SURVEYOR):

LOT 41, (LESS THE WEST 40' FOR CANAL RIGHT-OF-WAY), AND ALL OF LOT 42, PLAN OF BLOCK H, PROSPER COLONY, AS RECORDED IN PLAT BOOK D, PAGE 102 OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA.

TOGETHER WITH:

THE WEST 237.80 FEET OF THE SOUTH 280 FEET OF LOT 43, PLAN OF BLOCK H, PROSPER COLONY AS RECORDED IN PLAT BOOK D, PAGE 102 OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA.

PARCEL CONTAINS 450346 SQUARE FEET OR 10.3385 ACRES, MORE OR LESS.

INDEX

PREPARED FOR

TAFT RECYCLING, INC.

1099 MILLER DRIVE

ALTAMONTE SPRINGS, FL 32701

PREPARED BY

HARTMAN & ASSOCIATES, INC.

engineers, hydrogeologists, surveyors & management consultants

201 EAST PINE STREET – SUITE 1000 – ORLANDO, FL 32801

TELEPHONE (407) 839-3955 – FAX (407) 839-3790

DATE: OCTOBER 2000

PROJECT No. 99-202.07

FIGURE 1

GENERAL NOTES

GENERAL NOTES

GENERAL INFORMATION

1. SCHEDULING FOR CONSTRUCTION HAS BEEN PROVIDED ON SHEET C-1.

2. ALL LABOR, MATERIALS, AND METHODS OF CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE ORANGE ENGINEERING AND CONSTRUCTION STANDARDS ADOPTED BY ORANGE COUNTY AND THE FDOT. WHERE CONFLICTS OR OMISSIONS EXIST, THE ORANGE COUNTY STANDARDS SHALL DICTATE. SUBSTITUTIONS AND DEVIATIONS FROM PLANS AND SPECIFICATIONS SHALL BE PERMITTED ONLY SINCE WRITTEN APPROVAL HAS BEEN ISSUED BY THE ENGINEER.

3. DURING ALL PHASES OF CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM THE WORK INCLUDED IN THIS PROJECT UNDER ALL MATERIALS, EQUIPMENT, SCHEDULE, ETC. LIKELY OR PERMITTED DURING TO ALL SAFETY REQUIREMENTS. THE CONTRACTOR'S SIGNATURE AFFIXED TO THE CONTRACT AGREEMENT WITH THE OWNER IS CONSIDERED CERTIFICATION OF COMPLIANCE TO SUCH REQUIREMENTS.

4. THREE (3) SETS OF SHOP DRAWINGS OF ALL MATERIALS BEING USED SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.

5. ALL MATERIALS AND CONSTRUCTION TO BE IN ACCORDANCE WITH ORANGE COUNTY'S AND FDOT'S CONSTRUCTION SPECIFICATIONS, LATEST EDITION, UNLESS OTHERWISE SHOWN.

6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL REQUIRED PERMITS ARE OBTAINED AND IN HAND BEFORE BEGINNING ANY CONSTRUCTION. NO CONSTRUCTION OR FABRICATION OF ANY ITEM SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED ALL APPROVED PLANS AND PERMIT DOCUMENTATION FROM ALL OF THE PERMITTING AND ANY OTHER REGULATORY AUTHORITIES. WHEN PLANNED, STOP WORK ORDERS ON ALL WORK NOT RESULTING FROM THE CONSTRUCTION BEING IN VIOLATION OF THE REQUIREMENTS HEREIN SHALL BE FULLY BORNE BY THE CONTRACTOR.

7. THE LOCATION OF ALL EXISTING UTILITIES AND STORM DRAINAGE SHOWN ON THE PLANS WERE OBTAINED FROM THE BEST AVAILABLE AND MADE KNOWN TO THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR INACCURACY. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITIES AND TO HAVE THE FIELD SURVEY REPRESENTATIVES FOR ANY REVELATION BY THOSE UTILITIES WITH THE OWNER OF THE UTILITY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING UNDERGROUND UTILITY SERVICES SHOWN ON THE PLANS OR LOCATED BY THE UTILITY COMPANY. ALL UTILITIES WHICH INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE UTILITIES ARE RELOCATED IN ACCORDANCE WITH APPLICABLE UTILITY COMPANY STANDARDS. IT IS ACKNOWLEDGED THAT UTILITY COMPANIES WORK THEIR PARTICULAR UTILITIES. ANY DELAY OR INCONVENIENCE CAUSED TO THE CONTRACTOR BY THE RELOCATION OF THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION SHALL BE ALLOWED.

8. A PRECONSTRUCTION MEETING IS TO BE HELD BETWEEN THE JURISDICTIONAL ENTITY (ORANGE COUNTY), UTILITIES, ENGINEER OF RECORD ON HIS ORIGINAL, AND CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION.

9. THE SEQUENCE OF CONSTRUCTION SHALL BE SUCH THAT ALL UNDERGROUND INSTALLATIONS OF EVERY KIND, INCLUDING SERVICELINES, SHALL BE PLACED BENEATH THE PAVEMENT AND ITS LIMITS PRIOR TO THE CONSTRUCTION OF THE PAVEMENT. THE PAVEMENT SHALL NOT BE CUT WITHOUT PRIOR APPROVAL OF THE ENGINEER.

10. CONSTRUCTION INSPECTION SHALL BE PROVIDED BY THE ORANGE COUNTY ON THE PROJECT. THE CONTRACTOR SHALL NOTIFY THE CITY AND ENGINEER AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION AND AT LEAST BEFORE REQUESTING INSPECTION (AS EACH AND EVERY PHASE OF WORK). THE CONTRACTOR SHALL NOTIFY THE CITY AND ENGINEER A MINIMUM OF 48 HOURS NOTICE PRIOR TO ANY SCHEDULED TESTING, MIL SPECTROLOGICAL TESTING, PRESSURE TESTING, OR FINAL TESTING SHALL BE ACCEPTED UNLESS WITNESSED BY THE ENGINEER'S REPRESENTATIVE.

11. ALL CONTRACTORS, CITY REPRESENTATIVES, AND UTILITY COMPANIES ARE RESPONSIBLE FOR THEIR RESPECTIVE SURVEYING AND LAYOUT FROM BENCHMARKS PROVIDED ON CONSTRUCTION PLANS. ANY SURVEY MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE REPLACED UPON COMPLETION OF THE WORK BY A REGISTERED LAND SURVEYOR.

12. NO CONSTRUCTION ACTIVITIES SHALL BE PERFORMED FOR PREPARATORY ANY CONSTRUCTION ACTIVITIES FROM TAKING PLACE OUTSIDE OF THE LIMITS OF CONSTRUCTION SHOWN ON THE PLANS, ANY ON-SITE OR OFFSITE AREAS DISTURBED SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER.

13. OFF-SITE WORK IMPROVEMENTS SHALL BE MAINTAINED BY ORANGE COUNTY.

14. THE CONTRACTOR SHALL MAINTAIN A CURRENT SET OF CONSTRUCTION PLANS AND ALL PERMITS ON THE JOB SITE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE TWO (2) SETS (TWO NUMBERS SHALL HAVE SUPERSEDING OR THE REQUIREMENTS OF THE ORANGE COUNTY) OF RECORD DRAWINGS TO THE ENGINEER WITHIN TEN (10) DAYS AFTER CONSTRUCTION HAS COMPLETED ON EACH PHASE.

15. TOPOGRAPHIC DATA SHOWN ON THESE PLANS WERE TAKEN FROM SURVEYS PERFORMED BY MARTINEZ & ASSOCIATES, INC. (MAI).

16. ALL PIPE CELL CUTS ARE MEASURED CENTER LINE TO CENTER LINE FOR MANHOLES AND VALVES AND FROM THE END OF THE PIPE FOR MITERED END SECTIONS.

17. ALL EXISTENCE COSTS ASSOCIATED WITH THE INSTALLATION AND CONSTRUCTION OF THE UNDERGROUND UTILITIES, STORMWATER PIPES AND MANHOLES, SANITARY SEWER MAINS, FORCE MAINS, MANHOLES, AND LIFT STATIONS, AND FIRE/WATER SUPPLEMENT SYSTEMS SHALL BE INCLUDED AS PART OF THE CONSTRUCTION BID COSTS.

18. ALL PIPES SHALL HAVE 3 FEET MINIMUM COVER UNLESS OTHERWISE SPECIFIED IN PLANS. CONTRACTOR SHALL TAKE CARE TO PROTECT PROPER GRADE ELEVATIONS AND ALIGNMENTS.

19. PLANS AND SPECIFICATIONS REQUIRE THAT COMPACTED BACKFILL AT PLACED ALONG SIDE OF AND OVER ALL UTILITIES. THE ENGINEER MAY REQUIRE THAT COMPACTION TESTS BE TAKEN TO VERIFY PROPER COMPACTION. THE COST OF SUCH COMPACTION TESTS WILL BE BORNE BY THE CONTRACTOR.

20. UTILITIES WILL BE PROVIDED AS FOLLOWS:

ELECTRIC WILL BE PROVIDED BY FLORIDA POWER.

TELEPHONE WILL BE PROVIDED BY BELL SOUTH.

WATER WILL BE PROVIDED BY ORANGE COUNTY UTILITIES.

SEWAGE COLLECTION WILL BE PROVIDED BY ORANGE COUNTY UTILITIES.

PROPERTY CURRENTLY ZONED INDUSTRIAL PARK DISTRICT (IP).

DEMOLITION AND SITEWORK

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THE GEOTECHNICAL REPORT TO ASSURE THAT THE PROPER COMPACTION HAS BEEN ACHIEVED ON THE BUILDINGS, BASE, AND ALL OTHER PORTIONS OF AREAS THAT HAVE BEEN COMPLETED. THE CONTRACTOR SHALL BEAR ALL COSTS ASSOCIATED WITH TESTING AND RETESTING OF THE AREAS AND SHALL PROVIDE THE SIGNED AND THE CERTIFICATES WITH COPIES OF THE CERTIFICATION OF COMPACTION FROM THE TESTING COMPANY.

2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE EXISTING SITE CONDITIONS OF SOIL PRIOR TO B.I.P. TO DETERMINE IF ANY CUT OR FILL QUANTITIES WILL NEED TO BE EXPORTED TO ACHIEVE THE GRADES SHOWN ON THE PLANS.

3. ALL EXCESS FILL FROM SITE SHALL BE DISCARDED BY THE CONTRACTOR, AS A LOCATION DETERMINED BY THE OWNER OR THE OWNER'S REPRESENTATIVE AND THE LANDFILL.

4. CLEAR AREAS DESIGNATED SHALL BE COMPLETELY CLEAR OF ALL TREES, BRUSH, STUMPS, ROOTS, GRASS, WEEDS, RUBBISH, AND ALL OTHER DEBRIS AND OBSTRUCTIONS RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE GROUND.

5. PRIOR TO SITE PREPARATION, THE CONTRACTOR SHALL RECEIVE FAMILIARIZE WITH THE OVERALL SITE CONDITIONS AND PLANTING ADDITIONAL SOILS/SOLUTIONS AS DETERMINED NECESSARY TO UNDERSTAND THE LIMIT AND DEPTH OF EXPECTED EXCAVATION, FILL PLACEMENT, AND/OR REMOVAL OF EXISTING MATERIALS AS FILL DEMOLITION REQUIREMENTS, CLEAN FILL REQUIRED FROM OFFSITE, AND MATERIALS TO BE DISPOSED OF OFFSITE, ALL OF WHICH WILL AFFECT CONSTRUCTION COST. ANY DELAY, INCONVENIENCE, OR EXPENSE CAUSED TO THE CONTRACTOR DUE TO UNREASONABLE INTERPRETATION OF EXISTING CONDITIONS SHALL BE RESOLVED BY THE CONTRACTOR, AND NO EXTRA COMPENSATION SHALL BE ALLOWED. THE MATERIALS ANTICIPATED TO BE ENCOUNTERED DURING CONSTRUCTION MAY INCLUDE SURFACE FINES TO LIKE AS SHOWN FILL, AND THE CONTRACTOR MAY HAVE TO IMPORT MATERIALS AT NO EXTRA COST, FROM OFFSITE TO MEET THE REQUIREMENTS FOR COMPACTION AND PROPER FILL.

WATER AND SEWER

1. FITTINGS MAY BE USED FOR PROVIDING PIPE ALIGNMENT CHANGES RANGER THAN DEFLECTING JOINTS AT THE CONTRACTOR'S OPTION AND WITH NO EXTRA COMPENSATION.

2. IN ALL CASES WHERE SANITARY SEWER MAINS CROSS UNDER WATER MAINS WITH LESS THAN 18 INCHES OF VERTICAL CLEARANCE, AND IN ALL CASES WHERE SANITARY SEWER MAINS CROSS OVER WATER MAINS, THE WATER MAIN SHALL BE CONSTRUCTED CROSSED OR BE DUCTILE IRON PIPE FOR A DISTANCE OF 20 FEET, CENTERED ON THE POINT OF CROSSING.

A MINIMUM SEPARATION OF 10 FEET SHALL BE MAINTAINED BETWEEN ALL WATER, STORM AND SANITARY SEWER MAINS. WHERE CONDITIONS DO NOT PERMIT THIS, 18 INCH DIAMETER, THE WATER MAIN SHALL BE LAID IN A SEPARATE TRENCH OR ON THE SIDE PERCH SHOULD BE A SLOPE OF UNDISTURBED EARTH, AND THE WATER MAIN SHALL BE 18 INCHES ABOVE THE CROWN OF THE SEWER. WHERE A SEPARATION BETWEEN WATER/SEWER CAN NOT BE MAINTAINED THE WATER MAIN SHALL BE UPGRADED TO DUCTILE IRON PIPE OR ENCASED IN CONCRETE (SHALL BE SPECIFIED) TRENCHES CAN NOT BE USED, THE WATER MAIN SHALL BE UPGRADED TO DUCTILE IRON PIPE.

UNLESS OTHERWISE SPECIFIED BY THE JURISDICTIONAL ENTITY, ORANGE COUNTY, THE REQUIREMENTS ABOVE SHALL APPLY.

3. ALL PROPOSED WATER LINES SHALL BE LAID WITH A MINIMUM COVER OF 36 INCHES UNLESS OTHERWISE SHOWN, UNLESS OTHERWISE NOTED ON

4. ALL PVC PIPE SHALL BEAR THE APPROVAL SEAL OF THE NATIONAL SANITATION FOUNDATION (NSF) FOR POTABLE WATER PIPE.

5. CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM OF 48 HOURS PRIOR TO HYDROSTATIC TESTING AND DISINFECTION. ANY FINAL HYDROSTATIC TESTING OR DISINFECTION WILL BE ACCEPTED UNLESS WITNESSED BY THE ENGINEER REPRESENTATIVE.

6. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.

7. THERE SHALL BE NO DETERMINABLE LEVEL OF INFILTRATION OR EXFILTRATION FROM SANITARY SEWER SYSTEM AT THE TIME OF INSPECTION. ANY EVIDENCE OF LEAKAGE SHALL BE CORRECTED PRIOR TO ACCEPTANCE BY THE OWNER.

8. ACTUAL FIELD CONDITIONS ENCOUNTERED DURING CONSTRUCTION OF WATER MAINS MAY REQUIRE THE INSTALLATION OF ADDITIONAL BLOW-OFF VALVES. BLOW-OFF VALVES SHALL BE INSTALLED AT ALL SIGNIFICANT HIGH POINTS IN THE WATER MAIN.

STORM UTILITY INFORMATION

1. THE CONTRACTOR SHALL PROTECT ALL UTILITIES AND OTHER IMPROVEMENTS SHOWN ON THESE PLANS AND ALL OTHER UTILITIES AND OTHER IMPROVEMENTS NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REPAIRS OF UTILITIES AND OTHER IMPROVEMENTS DAMAGED DURING CONSTRUCTION AS DIRECTED BY THE OWNER, AT NO ADDITIONAL COST TO THE OWNER, AND SHALL MAINTAIN SUFFICIENT PROTECTION TO ALL UTILITIES REQUIRED TO PROTECT THOSE FROM DAMAGE AND TO PROTECT THE PUBLIC DURING CONSTRUCTION.

2. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES WHICH ARE HAVE THEIR UTILITIES WITHIN THE CONSTRUCTION AREAS TO LOCATE THEIR FACILITIES IN THE FIELD FORTY-EIGHT (48) HOURS PRIOR TO BEGINNING CONSTRUCTION.

3. DUCTILE IRON PIPE SHALL BE ENCASED IN POLYETHYLENE THIRTY-MIL (MIL) FILM OR EIGHT MIL OF ANY PERFORMANCE EQUIVALENT OF METALLIC END SEALS ON ANY OTHER ENVIRONMENTALLY PROTECTED PIPELINE AND FOR ALL LOCATIONS WITHIN TEN FEET OF ANY DUCTILE IRON MAIN OR ANY OTHER CATHODICALLY PROTECTED PIPE AND THROUGH THE AREA OF INFLUENCE OF ANY CATHODIC PROTECTION ANODE BED.

4. CHAPTER 553 - PART IV OF THE FLORIDA STATUTES REQUIRES THAT AN EXCAVATOR NOTIFY ALL GAS UTILITIES A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO EXCAVATING. THE OWNERSHIP SHOWN ONLY THE APPROXIMATE LOCATION OF GAS MAINS AND DO NOT SHOW SERVICE LINES.

EROSION CONTROL AND REVEGETATION

1. THE CONTRACTOR MUST INSTALL AND MAINTAIN GRAVEL BAGS AND MULCH, OR SOD ON EXPOSED SLOPES WITHIN 48 HOURS OF COMPLETION FROM GRADING AND AT ANY OTHER TIME AS NECESSARY TO PREVENT EROSION, SEDIMENTATION OR TURBIDITY DISCHARGES TO AND DOWNSTREAM WATER BODY, WETLAND, OR OFFSITE PROPERTY. SEEDING ON SLOPES 3:1 AND STEEPER SHALL BE STRAW.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROJECT COMPLYING WITH APPLICABLE STATE WATER QUALITY STANDARDS DURING CONSTRUCTION AS SPECIFIED IN THE PERMITS. ALL WATER AND WIND DRAINAGE SHALL BE MANAGED AS OUTLINED IN THE SPECIFICATIONS AND PERMITS. THE SPECIFICATIONS PROVIDE ONLY A MINIMUM REQUIREMENT FOR EROSION AND SEDIMENTATION CONTROL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT CONTROL MEASURES NOT SHOWN IN SPECIFICATIONS, ALL COSTS ASSOCIATED WITH TURBIDITY CONTROL AND SEDIMENT EXAMINATION SHALL BE BORNE BY THE CONTRACTOR.

3. THE CONTRACTOR OF AND SHALL INSPECTING, SHALL ALSO EXPORTS AND MAINTAIN EROSION AND SEDIMENT CONTROL DEVICES AND STRUCTURES IN ACCORDANCE WITH THE REGULATIONS SET FORTH IN THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) AS SHOWN IN THE STORMWATER POLLUTION PREVENTION PLANS (SWPP) FOR THIS SITE.

4. THE CONTRACTOR SHALL SEED AND MULCH ALL AREAS DISTURBED BY CONSTRUCTION UNLESS SODDING OR OTHER MORE HIGHLY EFFECTIVE STABILIZATION PRACTICES ARE SPECIFIED ON THE PLANS.

5. THE CONTRACTOR SHALL TAKE ALL REASONABLE NECESSARY TO CONTROL TURBIDITY INCLUDING, BUT NOT LIMITED TO, THE INSTALLATION OF TURBIDITY BARRIERS AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSPORTING SUSPENDED SOLIDS INTO THE RECEIVING WATER BODY EXISTS DUE TO THE PROPOSED WORK. TURBIDITY BARRIERS SHALL BE MAINTAINED AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND DISTURBED SOIL AREAS ARE STABILIZED. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REMOVING THE BARRIERS. AT NO TIME SHALL THERE BE ANY EFFLUENT DISCHARGE WHICH VIOLATES THE WATER QUALITY STANDARDS IN CHAPTERS 62-302 AND 62-4, FLORIDA ADMINISTRATIVE CODE.

DEMOLITION

1. THE CONTRACTOR SHALL OBTAIN ALL ABATEMENT PERMITS AND LICENSES FOR PERFORMING THE DEMOLITION WORK AND SHALL FURNISH A COPY OF SAME TO THE ENGINEER PRIOR TO COMMENCING THE WORK. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE PERMITS.

2. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES OR LOCAL AUTHORITIES POSSESSING GAS, WATER, ELECTRICAL, TELEPHONE, OR SEWER SERVICES, SO THEY CAN REMOVE, RELOCATE, DISCONNECT, CAP OR PLUG SAME COMPANY A CHOICE OF FACILITY REGULATIONS.

3. THE CONTRACTOR SHALL PROTECT ALL UTILITIES AND OTHER IMPROVEMENTS SHOWN ON THESE PLANS AND ALL OTHER UTILITIES AND OTHER IMPROVEMENTS NOT SHOWN. THE CONTRACTOR SHALL REPAIR ALL RESPONSIBILITY FOR REPAIRS OF UTILITIES AND OTHER IMPROVEMENTS DAMAGED DURING CONSTRUCTION AND SHALL MAINTAIN SUFFICIENT PROTECTION TO ALL UTILITIES REQUIRED TO PROTECT THOSE FROM DAMAGE AND TO PROTECT THE PUBLIC DURING CONSTRUCTION.

4. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL TREES, STRUCTURES, AND UTILITIES NOT MARKED FOR REMOVAL OR DEMOLITION AND SHALL PROMPTLY REPAIR ANY DAMAGE AS DIRECTED BY THE ENGINEER AT NO COST TO THE OWNER.

5. THE CONTRACTOR TO REMOVE ALL PAVING MARKED FOR DEMOLITION WHICH INCLUDES ALL ASPHALT, CONCRETE, BASE, AND RETAINING WALLS (INCLUDING THE FOOTERS).

6. THE CONTRACTOR TO REMOVE ALL TREES MARKED FOR REMOVAL WHICH INCLUDES THE ROOTS ASSOCIATED WITH THE TREE. THE TREES NOT MARKED FOR REMOVAL SHALL BE PROTECTED IN ACCORDANCE WITH THE ORANGE COUNTY'S REGULATIONS.

7. THE CONTRACTOR TO REMOVE ALL UNSUITABLE MATERIALS AND TRASH DEBRIS FROM THE SITE SATISFACTORILY AND DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.

8. THE CONTRACTOR SHALL USE OUT A MONTH STANDARD CODE ON ANY PERMISSION PROVIDED FOR DEMOLITION PRIOR TO ITS REMOVAL. PRIOR TO DISPOSING PROPOSED PAVEMENT TO EXISTING PAVEMENT, THE CONTRACTOR SHALL ENSURE THAT THE EDGE OF THE EXISTING PAVEMENT IS STRAIGHT AND UNIFORM.

SITE COVER CALCULATIONS

TOTAL SITE AREA 10.34 ACRES

PROPOSED DEVELOPABLE (DRAINAGE) AREA 8.53 ACRES

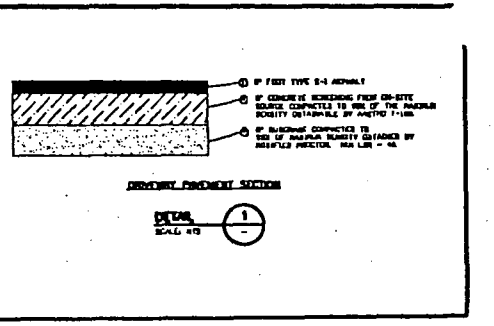
EXISTING CONDITIONS

DESCRIPTION	AREA		
	AC	SF	%
PERVIOUS	1.83	80,564	21.6%
IMPERVIOUS			
LIMEROCK SURFACE	4.30	187,310	50.4%
WOOD PALETTES	1.40	60,894	16.4%
OFFICE, SHED	0.13	5,040	1.4%
OTHER	0.88	38,520	10.2%
SUBTOTAL	6.70	291,854	78.4%
TOTAL	8.53	372,418	100.0%

PROPOSED CONDITIONS

DESCRIPTION	AREA		
	AC	SF	%
PERVIOUS/OPEN SPACE			
SOD/L.S.	0.80	34,400	10.5%
POND/SWALE	1.90	82,885	22.2%
SUBTOTAL	2.80	122,085	32.7%
IMPERVIOUS			
PAVEMENT	0.45	19,400	5.2%
RECOVERED CONCRETE	0.18	8,000	2.1%
WOOD PROCESSING	0.80	26,000	7.0%
DUST LIME/ROCK TO REMAIN	3.83	172,253	46.6%
OTHER (SCALE, TRAILER, ETC.)	0.87	24,700	6.7%
SUBTOTAL	5.73	250,353	67.3%
TOTAL	8.50	372,438	100.0%

1



DRIVEWAY PAVEMENT SECTION

DETAIL 1
SCALE: NTS

FIGURE 2

HARTMAN & ASSOCIATES, INC.
engineers, hydrogeologists, surveyors & management consultants
701 EAST ATHENS STREET - SUITE 1000 - ORLANDO, FL 32801
TELEPHONE (407) 839-3633 - FAX (407) 839-3780

TAFT RECYCLING, INC
SOUTH ORLANDO TRANSFER STATION
TAFT, FLORIDA

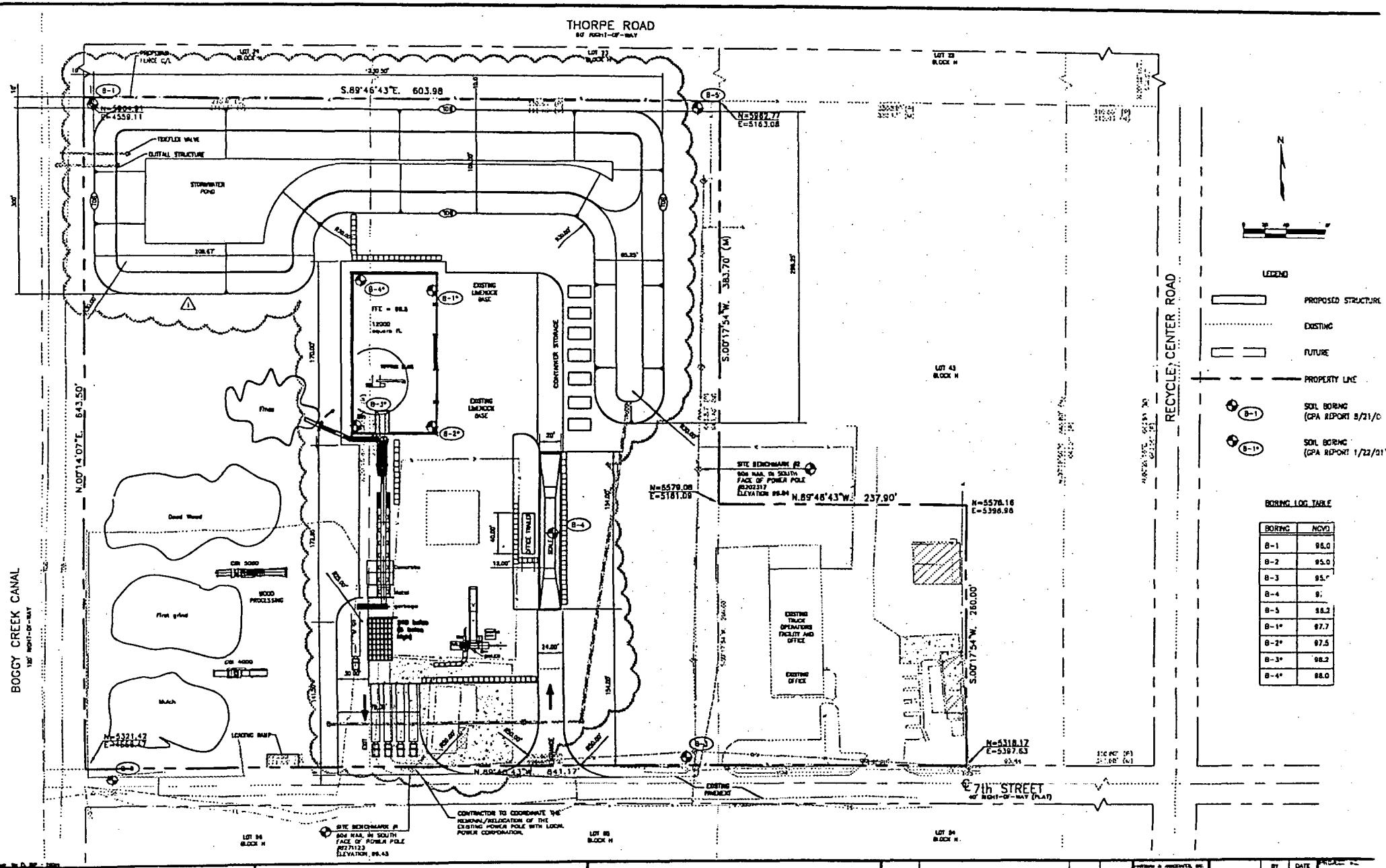
GENERAL NOTES AND SITE CALCULATIONS

1	5/01	REVISED AS PER DRP COMMENTS	DJ	DAC
	DATE	AS NOTED	AS NOTED	CHECKED

HARTMAN & ASSOCIATES, INC. 701 E. ATHENS ST., SUITE 1000 ORLANDO, FL 32801 (407) 839-3633 CONSULTING ENGINEERS SINCE 1978 FLORIDA & OHIO, P.E.

	BY	DATE
DESIGNED	DAD	10/00
DRAWN	DAC	10/00
CHECKED	MHC	10/00
QC APPROVAL		

PROJECT NO. 99-202.0
SCALE AS SHOWN
G-1
SHEET



HARTMAN & ASSOCIATES, INC.

PROPOSED TAFT RECYCLING INC.
SOUTH ORLANDO
MATERIAL RECOVERY FACILITY
TAFT, FLORIDA

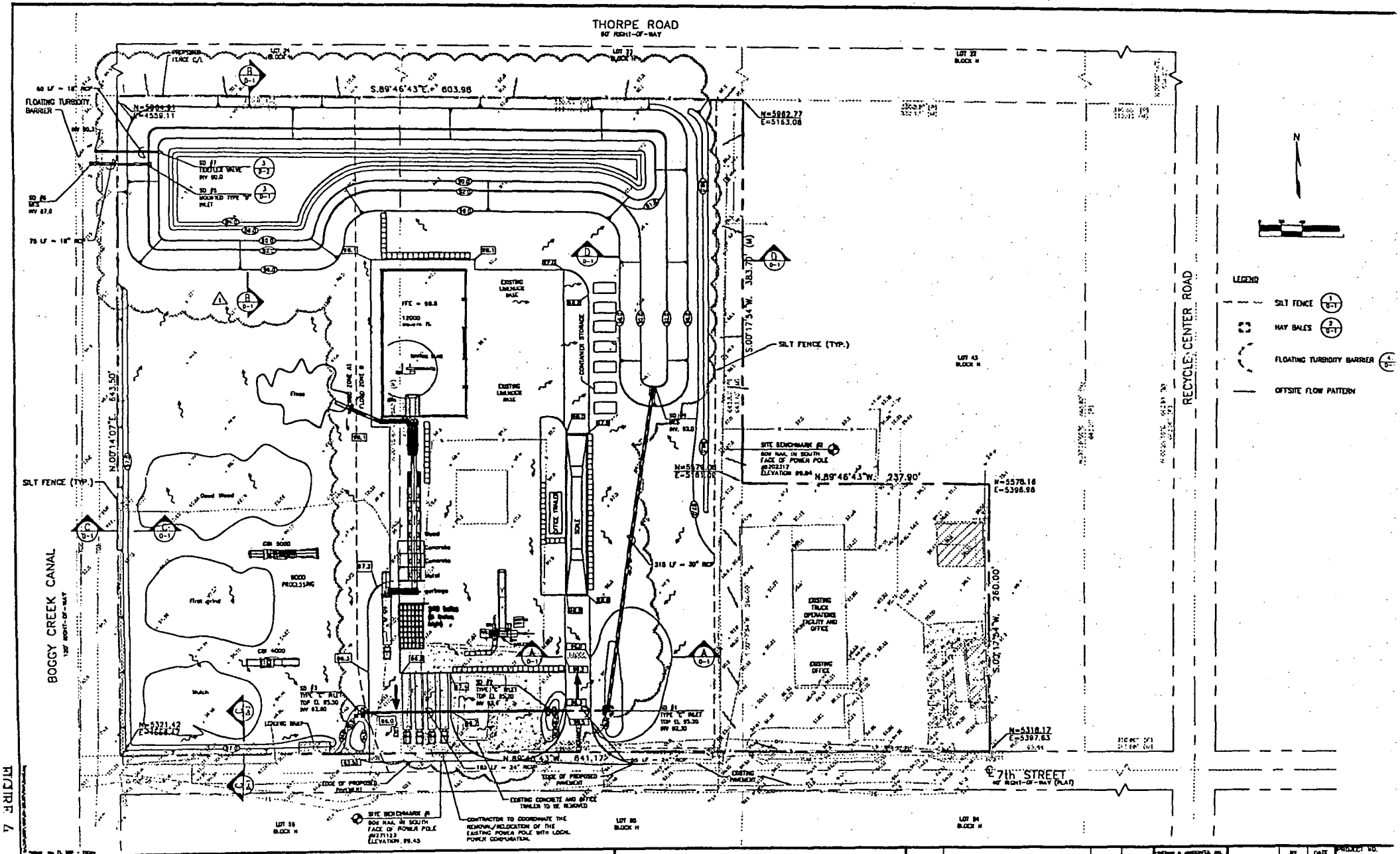
SITE AND GEOMETRY PLAN
CLASS III MRF

DATE	REVISIONS	BY	CHECKED
5/01	REVISED AS PER DEP COMMENTS	GAO	GAO

	BY	DATE
DESIGNED	GAO	7/00
DRAWN	GAO	7/00
CHECKED	ARC	10/00
QC APPROVAL	JCC	10/00

PROJECT No. 99-202.01
SCALE 1" = 40'
SHEET C-1

EXHIBIT 2



HARTMAN & ASSOCIATES, INC.

PROPOSED TAFT RECYCLING INC.
SOUTH ORLANDO MATERIAL RECOVERY FACILITY
TAFT, FLORIDA

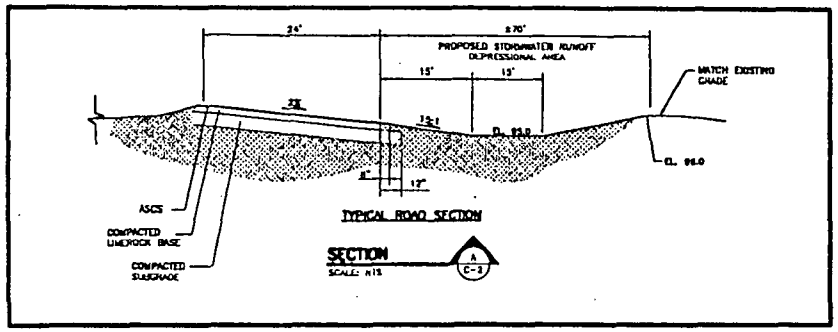
GRADING AND DRAINAGE PLAN
CLASS III MRF

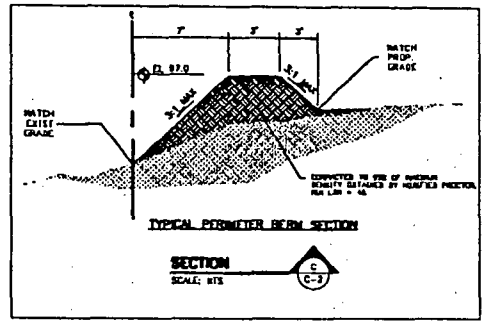
	BY	DATE
DESIGNED	DAC	7/00
DRAWN	DAC	7/00
CHECKED	AHC	10/00
QC APPROVAL	JCC	12/00

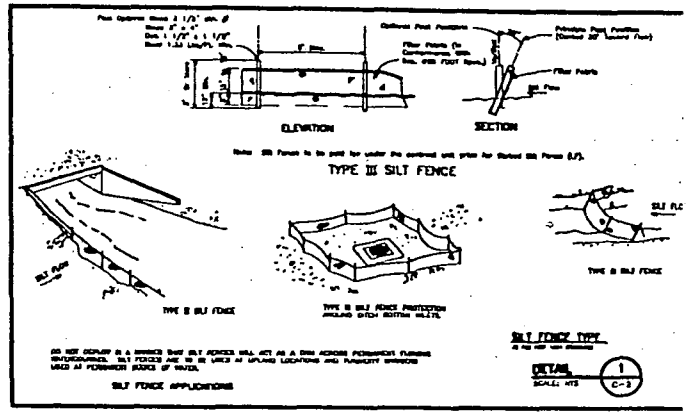
PROJECT NO. 99-202.07
SCALE 1" = 40'
C-2
SHEET

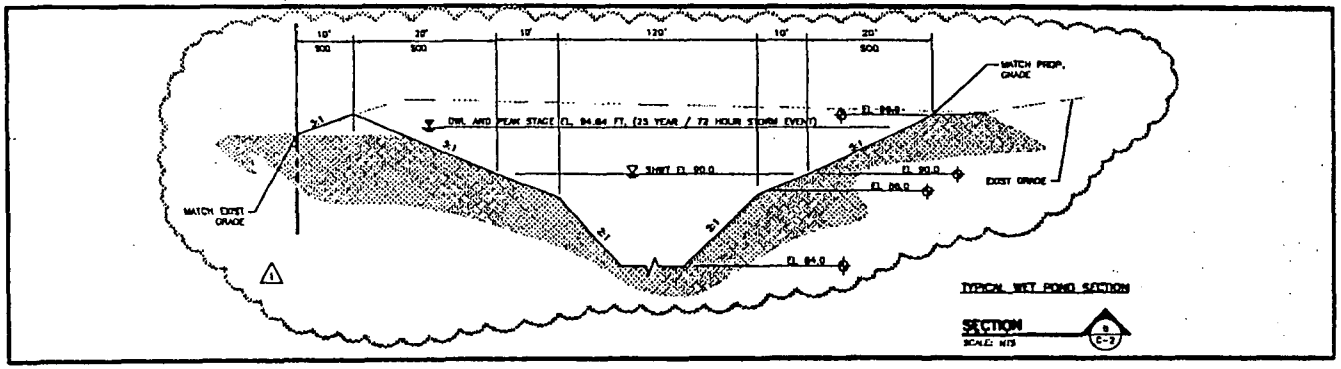
3/01 REVISED AS PER DEP COMMENTS DAC AHC
DATE REVISIONS BY CHECKED DATE

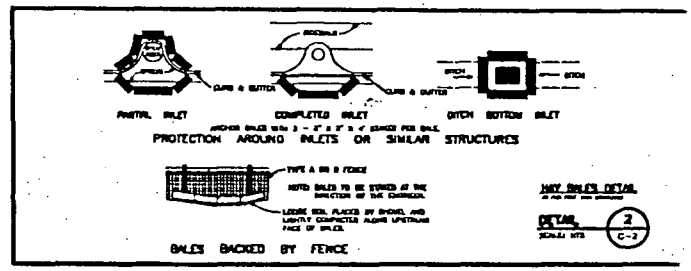
FIGURE 4

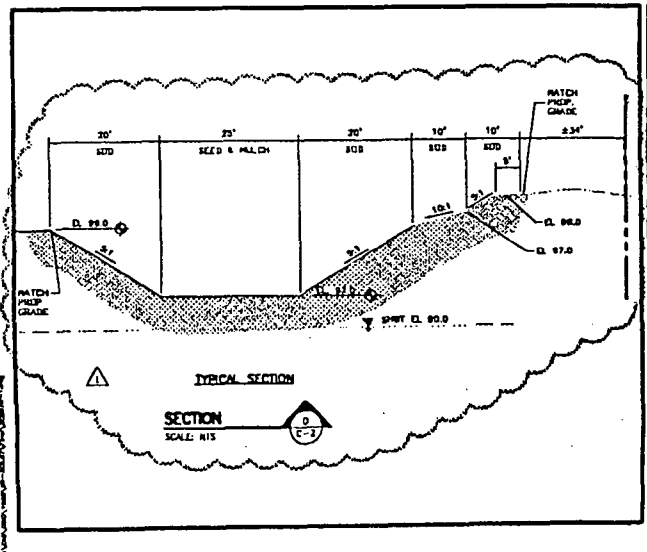


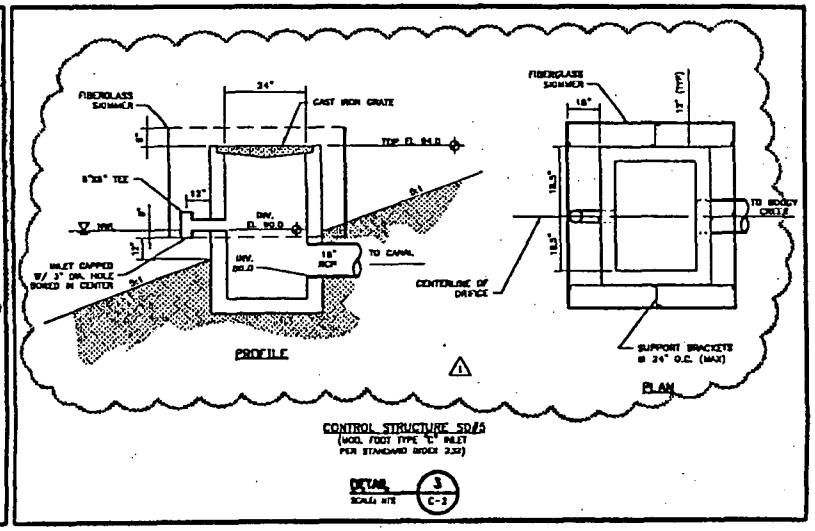












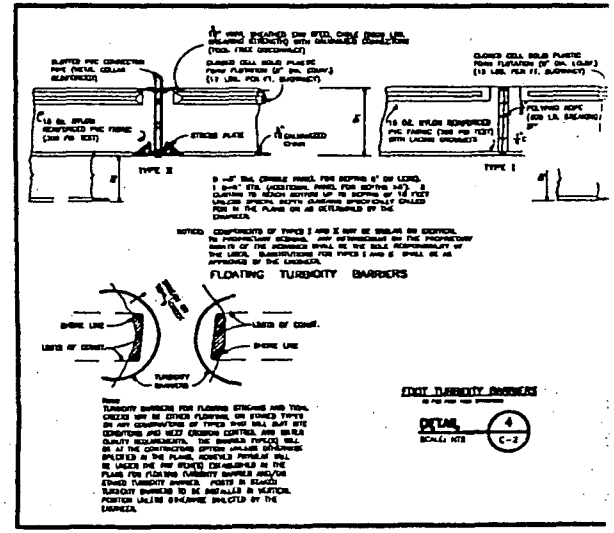


FIGURE 5

HARTMAN & ASSOCIATES, INC.

TAFT RECYCLING, INC
SOUTH ORLANDO TRANSFER STATION
TAFT, FLORIDA

DETAILS

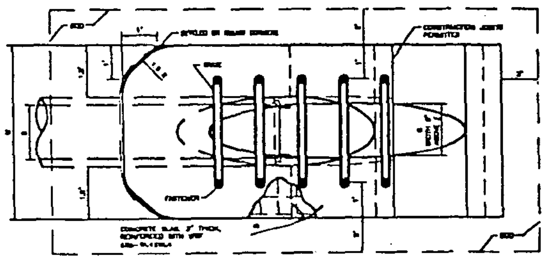
5/01	REVISED AS PER FDEP COMMENTS	DJ	DAG
DATE	REVISIONS	REVISED	CHECKED

	BY	DATE
DESIGNED	DAG	11/00
DRAWN	DJ	11/00
CHECKED	RWC	
QC APPROVAL		

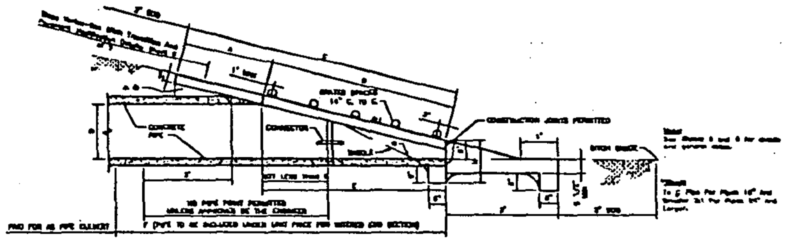
PROJECT NO. 99-202.
SCALE AS SHOW
D-1
SHEET
FILE: 302207d-1.dwg

D	X	A	B	C	E	F	G	M Single Pipe	M Double Pipe	M Triple Pipe	M Quad Pipe	N	Grate Sizes Standard Weight Pipe	Grate Sizes Extra Strong Pipe	Concrete (Cu. Yds.) Single Pipe	Concrete Double Pipe	Concrete Triple Pipe	Concrete Quad Pipe	Sodding (Sq. Yds.) Single Pipe	Sodding Double Pipe	Sodding Triple Pipe	Sodding Quad Pipe
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

DIMENSIONS & QUANTITIES



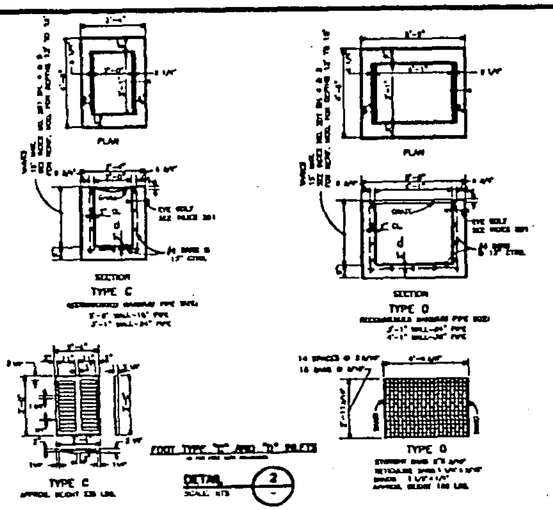
TOP VIEW–SINGLE PIPE



SECTION

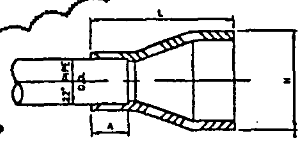
FOOT MITERED END SECTION

DETAIL 1
SCALE: NTS



FOOT TYPE "C" AND "D" INLETS

DETAIL 2
SCALE: NTS



NOTES:
1. THE CHECK VALVE IS TO BE INSTALLED AT THE DOWNSTREAM END OF THE 18" RCP.
2. TIDEFLEX(R) IS A PRODUCT OF RED VALVE COMPANY, INC.
3. THE CONTRACTOR SHALL FOLLOW THE MANUFACTURERS' INSTALLATION MANUAL.

SPECIFICATIONS			
MATING PIPE O.D.	CUFF SLIP-ON LENGTH-A	MAXIMUM LENGTH-L	MAXIMUM HEIGHT-H
21" TO 23-3/4"	8"	35-1/2"	32-3/4"

TIDEFLEX CHECK VALVE DETAIL

DETAIL 3
SCALE: NTS

HARTMAN & ASSOCIATES, INC.
engineers, hydrogeologists, surveyors & management consultants

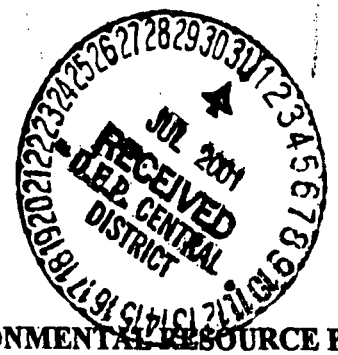
TAFT RECYCLING, INC
SOUTH ORLANDO TRANSFER STATION
TAFT, FLORIDA

DETAILS

DATE	REVISIONS	REVISED	CHECKED
3/01	REVISED AS PER FDEP COMMENTS	DJ	

	BY	DATE
DESIGNED	CAG	11/00
DRAWN	DJ	11/00
CHECKED		
QC APPROVAL		

PROJECT NO. 99-202.07
SCALE AS SHOWN
D-2



Form #62-343.900(3) F.A.C.
Form Title: Construction Commencement Notice
Effective Date: October 3, 1995

ENVIRONMENTAL RESOURCE PERMIT
CONSTRUCTION COMMENCEMENT NOTICE

Project Name: Taft Recycling - S. Orlando Phase: N/A

I hereby notify the Department of Environmental Protection that the construction of the surface water management system authorized by Environmental Resource Permit No. 48-0179138-001 has commenced/is expected to commence on 7/19/01 and will require a duration of approximately 1 months _____ weeks to complete. It is understood that should the construction term extend beyond one year, I am obligated to submit the Annual Status Report for Surface Water Management System Construction.

PLEASE NOTE: If the actual construction commencement date is not known, Department staff should be so notified in writing to satisfy permit conditions.

P.G.
Permittee or Authorized Agent

Agent, Hartman & Assoc.
Title and Company

Taft Recycling
Company Address

7/19/01
Date

375 7th St.
City, State, Zip Code 32824

Taft, FL (407) 240-6883
Telephone Number

Please send the completed form to:

Florida Department of Environmental Protection
Submerged Lands and Environmental Resources Program
3319 Maguire Blvd., Suite 232
Orlando, FL 32803

Received DEP
JUL 3 1 2001
Central Dist. ERP

CERTIFICATION

County: Orange

File No. ERP 48-0179138-001

Project: Taft Recycling – South Orlando

I hereby certify that the engineering features described in the referenced application to construct a stormwater management system is in reasonable assurance of compliance with the applicable provisions of Chapter 373 F.S. and Chapters 40E-4, 40E-40, and 40E-41, F.A.C. I have NOT evaluated and do not make any certifications as to any other aspects of the proposal.

Scott Wesson

Scott P. Wesson, P.E.

Fla. P.E. Registration No. 52801

Date: 7/16/2001