PERMIT RENEWAL APPLICATION

CLASS I & III WASTE PROCESSING FACILITY
TAFT RECYCLING, INC.
TAFT, FLORIDA

Prepared For:

Taft Recycling, Inc.
375 Wst 7th Street
Taft, Florida 32824

Prepared By:

HSA Golden
Environmental and Engineering Consultants

Project No.: 04-297.015

December 2005

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

December 15, 2005

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

Subject: **Class I and Class III Waste Processing Facility Permit Renewal Application**
Taft Recycling, Inc., 375 7th Street, Taft, Florida
Permit No. SO48-0173968-004
Project No. 04-297.015

Dear Mr. Bradner:

On behalf of Taft Recycling, Inc., HSA Golden is submitting for your review a permit renewal application for the subject Class I and Class III Waste Processing Facility located in Taft, Florida. A check for the $1,000.00 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, Legal Description, and Surveys
- Attachment C — Engineering and Operations Plan
- Attachment D — Aerial Photograph and Site Plans
- Attachment E — Financial Assurance
- Attachment F — Geotechnical Report
- Attachment G — Stormwater Management Permit

Facility compliance with prohibitions of rule 62-701.300, F.A.C. is addressed by Attachment C. Local government notification was satisfied by submitting a copy of this application to Orange County Environmental Protection Division. The proposed MRF building expansion plans are still valid as submitted to the Department for the last modification; however, Orange County building plan approval is not expected until May 2006.

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

Please call if you have any questions.

Sincerely,

HSA GOLDEN

12/15/05

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

Attachments

Addressee (4)

Copy to: George Ward, Taft Recycling
Mike Massaro, Taft Recycling
Lori Cunniff, Orange County EPD

ATTACHMENT A

APPLICATION
FORM NO. 62-701.900(4)

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)

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

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: SO48-0173968-004 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: 375 7th Street, Taft, Florida 32824
Street or P.O. Box City State Zip

Contact person: Mike Massaro Telephone: (407) 851-0074

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

9. Authorized agent/Consultant: HSA Golden

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

Contact person: James E. Golden, P.G. 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 South Laflin Street, Chicago, IL 60608
Street or P.O. Box City State 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: May 2006 To: September 2006

15. Expected volume of waste to be received: 3,000 yds^3/day 600 Class I/400 Class III 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 processed and then placed into transport vehicles and hauled to a Department-permitted Class I landfill. Recyclable materials will also be separated from the Class III and C&D waste streams. 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 2.1 and 2.2 Appendix A**

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, C-1A**

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 2.2, 2.6, 2.16, 3.2, Appendix C, Appendix H**

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, 3.0; Attachment D**

5. Provide a description of the loading, unloading, storage and processing areas (Rule 62-701.710(2)(d), F.A.C.). **Attachment C; Sections 2.2, 2.3, 2.7, 2.8, 3.3, 3.5 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 Sections 3.3, 3.5; 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 Sections 2.6.6, 2.6.7, 3.5; Appendix B**

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 4.0**

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**

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 3.9, Appendix G**

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.

Mike Massaro
Signature of Applicant or Agent

Mike Massaro, Regional Manager
Name and Title (please type)

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

375 7th Street
Mailing Address

Taft, Florida 32824
City, State, Zip Code

(407) 851-0074
Telephone Number

Date: 12-15-05

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.

James T. Show
Signature

James T. Show · Engineer
Name and Title (please type)

34361
Florida Registration Number
(please affix seal)

HSA Golden, 225 East Robinson, Suite 100
Mailing Address

Orlando, FL 32801
City, State, Zip Code

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

(407) 649-5475
Telephone Number

Date: 12/15/05

ATTACHMENT B

PROPERTY DEEDS, LEASE, LEGAL DESCRIPTION, AND SURVEYS

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.

DoubleTime®

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

ATTACHMENT C

ENGINEERING AND OPERATIONS PLAN

RECEIVED
JAN 10 2006
Central Dist. - DEP

ENGINEERING REPORT AND OPERATIONS PLAN

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

Prepared for:

Taft Recycling, Inc.
148 Baywood Avenue
Longwood, Florida 32750

Prepared by:

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

Project No. 04-297.015

December 2005

James T. Show 1/5/06
34361

ENGINEERING REPORT AND OPERATIONS PLAN

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

Prepared for:

Taft Recycling, Inc.
148 Baywood Avenue
Longwood, Florida 32750

Prepared by:

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

12/15/05

Project No. 04-297.015

December 2005

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Appendix G: Unauthorized Waste Log
Appendix H: Equipment Cut Sheets

1.0 ENGINEERING REPORT

1.1 SITE DESCRIPTION AND BACKGROUND

The Taft Recycling, Inc. (TRI) waste processing facility (WPF) property currently consists of approximately 10.6 acres in a roughly rectangular shape with an existing office building, vehicle maintenance building, 12,000 s.f. waste processing building, and sorting areas. The topography generally slopes toward a drainage ditch along the southern property boundary that flows west to the Boggy Creek Canal. The property is relatively flat with an elevation of approximately 95 feet NGVD. Access will be off of 7th Street along the southern portion of the property. A site location map is provided as Figure 1.

TRI material recovery facility (MRF) was initially permitted by the Florida Department of Environmental Protection (FDEP) in January 2001, under rule 62-701.700 F.A.C. This permit authorized the processing of class III and construction and demolition (C&D) debris solid wastes in a 12,000 s.f. building with sorting, ancillary screening and recycling facilities. In January 2005, TRI received a modified permit from the FDEP to accept class I wastes within a proposed 6,600 s.f. building expansion. Then, in March 2005, TRI received an additional permit modification from the FDEP to accept class I wastes within the 12,000 s.f. existing MRF building.

1.2 SOILS

According to the SCS Soil Survey of Orange County, Florida (August 1989) the soils on the site consist of St. Johns fine sand (Map ID 37) and Smyrna fine sand (Map ID 44). Most of the eastern portion of the site is listed as Water (Map ID 99).

St. Johns fine sand is a poorly drained, nearly level soil on broad flats on the flatwoods. In most years the seasonal high water table is within 10 inches of the surface for 6 to 12 months and between depths of 10 and 40 inches for more than 6 months. In rainy periods, it rises to the surface for brief periods. The available water capacity is medium in the surface layer, very low to low in the subsurface layer and substratum, and medium to very high in the subsoil. The permeability is rapid above the subsoil and moderately slow to moderate in the subsoil. This soil occurs along the western property boundary.

Symrna fine sand is nearly level and poorly drained soil on broad flatwoods. In most years, the seasonal high water table is within 10 inches of the surface for 1 to 4 months and recedes to a depth of 10 to 40 inches for more than 6 months. The available water capacity is low to very low above the subsoil and medium in the subsoil. The soil occurs in the west-central portion of the property. The SCS Soil Survey map of the area is provided in Figure 2.

The water designation for the eastern portion of the site has been reclaimed (1960 - 1987) with clean fill and debris to match surrounding grades since the soil survey date.

1.3 GEOLOGY

The property is located on the edge of the Osceola Plain physiographic. Based on USGS Map Series No. 110, the site is located in an area consisting of mainly incohesive and permeable sand where sinkholes are few, shallow, of small diameter, and develop gradually. Surficial sediments in the area consist of undifferentiated sand, silt, and clay, which comprise the surficial aquifer system. Underlying the surficial sediments is the Hawthorn Group, which consists of marine interbedded sands and clays that are often phosphatic and functions as an aquitard between the surficial and Floridan aquifers. Underlying this confining layer is thick sequence of limestone and dolomite (Ocala Limestone, and Avon Park Formation) which comprises the Floridan aquifer system (SJRWMD Special Publication No. SJ 92-SP17, 1992).

1.4 FLOODPLAIN AND WETLANDS

A flood insurance rate map produced by the Federal Emergency Management Agency is provided as Figure 3. The map shows that the entire property is located within the 500-year floodplain, and the western half of the property is located withing the 100-year floodplain.

A wetlands map taken from the National Wetlands Inventory is provided in Figure 4. The map shows that most of the eastern half of the property is classified as a wetland. However, during previous development (1960 - 1980's), the portion of the wetland on the site was filled to surrounding grade with clean debris and partially covered with concrete.

1.5 PROHIBITION COMPLIANCE

The proposed WPF 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 WPF prior to permitting.

(b) No solid waste will be stored, process, or disposed of 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) Siting (since all solid wastes are to be stored in the WPF building, per 62-701.300(14) the following prohibitions do not apply).

(a) The area proposed for storage of solid waste is not in an area of unstable geological formations (sinkholes) or soils, see Department files, Attachment C (Engineering Report) and Attachment F (Geotechnical Report) of the permit application.

(b) 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 OUC. No wells were located within the search area.

(c) The Facility will not store waste in a dewatered pit.

(d) As shown on the FEMA map (Figure 4) 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 fee 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

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.

(e) The Facility will not store wastes in surface water or groundwater.

(f) 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 1.4 of the Engineering Report, this wetland (borrow pit) was filled by the previous owner to surrounding grade with clean debris and partially covered with concrete in the early 1980s.

(g) The Facility will not store wastes in any road right-of-way.

(h) 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 WPF is not within 1000 feet of a community potable well.

(3) No burning is proposed at the WPF.

(4) Hazardous wastes are unacceptable wastes at the proposed WPF, see application.

(5) PCBs wastes are unacceptable wastes at the proposed WPF, see application.

(6) Biomedical wastes are unacceptable wastes at the proposed WPF, see application.

(7) Class I surface waters. N/A

(8) Special wastes for landfills. N/A

(9) Special wastes for waste-to-energy facilities. N/A

(10) Liquids restrictions. N/A

(11) Except as provided in paragraph (b) of this subsection no person may mix or commingle used oil with solid waste that is to be disposed of in landfills or directly dispose of used oil in landfills. N/A

(12) Yard trash. The prohibitions in paragraphs (2)(b), (f) and (h) of this section apply to the storage processing, or disposal of yard trash, except that the following setback distances shall apply:

(a) The WPF is not within 100 feet from off-site potable water wells, no setback required from on-site water wells;

(b) 50 feet from water bodies; a 50–foot setback yard waste area will be maintained; and

(c) The WPF is not within 200 feet from wells serving community water supplies.

(13) Tanks. The prohibitions in subsection (2) of this section do not apply to the storage or treatment of solid waste in tanks which meet the criteria of Chapter 62-761 or Rule 62-701.400(6), F.A.C. Instead, no such storage tank shall be installed within 500 feet of any existing community water supply system or any existing non–transient non–community water supply system, nor shall any tank be installed within 100 feet of any other existing potable water supply well. Taft's proposed WPF leachate tank is double-contained per Rules 62-761 and 62-701.400(6)(c).

(14) Indoor storage. The prohibitions in subsection (2) of this section do not apply to the storage or processing of solid waste indoors, provided that the indoor storage area has an impervious surface and a leachate collection system. For the purposes of this subsection, an impervious surface means either a poured concrete pad having a minimum thickness of four inches, or an asphalt concrete paving with both a minimum thickness of one and one-half inches and with an additional component to restrict leaching to ground water such as a soil cement

(15) Storage in vehicles. The prohibitions in subsection (2) of this section do not apply to the storage of solid waste in an enclosed or covered vehicle, provided tat such vehicle has either been unloaded or moved over public highways within the previous seven days. Acknowledged.

(16) Existing facilities. Those portions of facilities which were constructed prior to May 27, 2001, remain subject to the prohibitions that were in effect at the time the permit authorizing construction was issued. Lateral expansions of such facilities remain subject to the prohibitions that were in effect at the time the permit authorizing the lateral expansion was issued. Acknowledged.

1.6 ZONING

The western ±4 acres of the site is zoned I-2/I-3 and the eastern ±8 acres of the site is zoned I-4 based on Orange County records. All adjacent projects within 1000 feet of the site are also zoned industrial, see Figure 5.

2.0 OPERATIONS PLAN

2.1 PURPOSE

The purpose of this manual is to describe the operation and maintenance procedures for the Taft Recycling, Inc. (TRI) waste processing facility (Facility) located at 375 7th Street in Taft, Florida. The Facility currently includes processing and storage areas for Class I and Class III waste materials. Class III wastes accepted at the site include construction and demolition (C&D) debris, yard trash, concrete, asphaltic concrete, wood wastes, building debris, cardboard, carpet, cloth, paper, glass, metal, plastic, waste tires, and furniture. A building expansion is proposed to process and transfer Class I waste. Sections have been added to this plan for a temporary plan that describes Class I municipal solid waste (MSW).

2.2 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 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, sorted and processed for recyclables, and loaded on to transfer trailers for Class I Landfill disposal on a first-in, first-out basis. 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 offsite 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.

The temporary Class I Waste tipping floor will be enclosed within bays 3 and 4 of the existing 150 ft. by 75 ft. facility building. Class I and Class III / C & D tipping floors (bays 1 and 2) will be separated by an 8 ft. concrete bin block wall, see drawings C-1A and C-6A, following Figure 5. The duration of temporary Class I waste acceptance into the existing building will be until Orange County permits are received and the building constructed (approximately May 2006 to September 2006). Ventilation, lighting and leachate control upgrades have been be added to the existing building to allow Class I waste acceptance, see following details in Sections 2.10, 3.3.1, and 3.4.1.

Once the waste has been sorted, unacceptable waste or rejected Class I and Class III wastes will be transported to disposal facilities.

Facility Operations Flow Charts are included in Appendix C.

2.2.1 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 per the Florida Statistical Abstract. Material types will be limited to the processing capabilities of this site. Solid waste quantities are projected to also grow at a rate of 4r to 5 percent per year. 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 (1000 tons/day) and Class III (500 tons/day) 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.

2.3 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 has certified operators on staff. The certifications for the current Facility Operators and Spotters 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 is 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 are 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 are employed to facilitate operations at the Facility.

2.4 HIRING AND TRAINING PROGRAM

In-house and publicly available training is 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 includes 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 coursework 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, training schedule, and a list of approved classes are provided in Appendix D.

2.5 EMERGENCY TELEPHONE NUMBERS

Emergency telephone numbers are included in Appendix E.

2.6 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.

2.6.1 Hurricane Preparedness Guidelines

Hurricane preparedness guidelines for the TRI facility are included in Appendix E. Litter control at the Facility will occur on a continuous basis during operating hours as a component of the site maintenance program. Loose, stockpiled materials will be secured to prevent litter during windy events.

2.6.2 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 non emergency medical attention, the injured party will be transported by conventional means to a place of professional medical care, i.e., hospital, emergency room, doctors' office, or clinic. In all cases, the Facility Manager will be notified.

2.6.3 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.

2.6.4 Fire

In case of a fire, a fire hydrant is located near the processing area and fire hose bibs within the building. Water service on the site is supplied by the City of Taft. Fire extinguishers are also 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 onboard 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 recurring 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.

2.6.5 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.

2.6.6 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.

2.6.7 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.

3. Electrical power loss will require the use of on–site 8000 kw generators to operate lighting and leachate pump systems.

2.7 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 is 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 has two full-time spotters/equipment operators, one on each tipping floor, when waste is received and processed who are 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; see Appendix A for Best Management Practice for Treated Wood.

2.8 WEIGHING AND MEASURING INCOMING WASTE

All incoming and outgoing waste will be weighed on a calibrated scale 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 county and FDEP personnel upon request. Report outputs can include daily, month-to-date and year-to-date totals of waste received.

2.9 SIGNS AND VEHICLES TRAFFIC CONTROL

Ingress and egress to the Facility will be limited to 7th Street. A sign is 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 southeast property corner and extends through the scale to the building and around to the exit located at the southeast corner. Transfer trailers will enter near the southeast corner, load at the building and exit at the southeast corner of the site, crossing the scale and picking up bills of lading. The entrance and exit roads will be accessible in all weather conditions. Lockable gates will control access to the site. Vehicle traffic flow is depicted on Figure D-2. Figure D-2A depicts the temporary flow of MSW trucks to bays 3 and 4 of the existing MRF building.

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 inbound vehicles is kept off of the public right–of–way.

2.10 ODOR AND VENTILATION

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

1. Rejection of unacceptable waste that would create odors;

2. Removal from the site of putrescible or other rejected waste that could cause odor problems within 48 hours;

3. Cleaning of the MSW tipping floor daily;

4. Active management of recycled materials;

5. Use of odor masking agents has been implemented through an atomizer system over primary building openings (see Appendix H).

Wall mounted 3 hp ventilation fans are installed in the existing facility building to insure interior ventilation, see Appendix H for fan specifications and drawings A-3, M-1 and M-2, Attachment D.

2.11 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.

2.12 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. TRI will collect litter weekly along 7th Street access road.

2.13 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.

2.14 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. Since the Facility is within an industrial area more than 1/4-mile from any residential area, these operational hours will not create a nuisance. During non-daylight hours, lighting is provided by 400-watt, building and 400–watt yard lights in the processing area. All lights are weatherproof and sealed to prevent a dust explosion, see Appendix H for lighting details. Existing building interior lighting details have been provided on drawings E-1, E-2, E-3, Attachment D.

2.15 ACCESS CONTROL AND SITE SECURITY

Access to the Facility will be controlled by a (5-foot to 7-foot) chain link fence and concrete block wall. Security will be maintained by locking the entrance and exit gates during any times the Facility is not operating. Semiannual inspections of the wall and fence will be conducted to identify locations in need of repair.

2.16 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 first aid supplies, telephone, fax, and electricity. The building also will provide shelter for employees during inclement weather conditions.

Maintenance and fueling of the equipment will be performed by an off–site mobile contractor.

2.17 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 noncompliance item.

3.0 CLASS I AND CLASS III OPERATIONS

3.1 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.

3.2 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.

3.3 SORTING OPERATIONS

Class I waste will only be accepted in the class I tipping area in the north building expansion. Class III and C&D wastes will be accepted only in the designated bays in the existing WPF building, see Figure D-2. Care will be taken not to commingle wastes. If wastes are mixed, the waste must be disposed of as the highest category of wastes, i.e., class III mixed with class I, will be disposed of at a Class I landfill.

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.

3.3.1 Temporary Class I Waste Operations

Bays 3 and 4 of the existing building will act as temporary tipping floor for Class I wastes while the north building expansion is under construction. During this time, Class III and C & D wastes will

be accepted in bays 1 and 2, see Figure D-2A for temporary traffic flow. Class I transfer trailer trucks will be loaded within bay 4 of the existing building.

3.4 LEACHATE COLLECTION AND DISPOSAL

The Class I tipping floor is enclosed within a 110 ft by 60 ft portion of the building, see Site Plan, Sheet C-1A. 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 (Sheet C-6A). The trench drains or catch basins will be cleaned daily to prevent clogging. 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 a permitted industrial waste hauler, as needed. Leachate disposal will be at a State permitted wastewater disposal facility, such as IWS, Jacksonville, FL. Leachate generation rate estimate is in Appendix H.

3.4.1 Temporary Class I Upgrades

The temporary Class I tipping floor area (bays 3 and 4) are upgraded with leachate controls by the addition of a catch basin with pump to the leachate storage tank on the west of the building. Concrete curbs will also be added to the bay door floors to contain any liquids, see drawing C-6A. The Class I and III/C&D concrete tipping floors will be separated by an 8 ft. concrete block wall within the existing facility. Bays 1 and 2 will be designated for Class III and C & D wastes only.

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

3.5 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.

Reject 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. Each type of reject waste will be stored in separated bin areas at the north end of the WPF building/loading area.

3.6 EQUIPMENT OPERATIONS AND MAINTENANCE MANUAL

Operations and maintenance for each piece of equipment will be in accordance with manufacturers' recommendations and manuals.

3.7 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 inbound vehicles is kept off of the public right–of–way.

3.8 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.

3.9 RECORD KEEPING/SUBMITTALS

Record submittal requirements for the Recycling Facility will be in compliance with the County and the FDEP requirements 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 county and Department inspection at the facility.

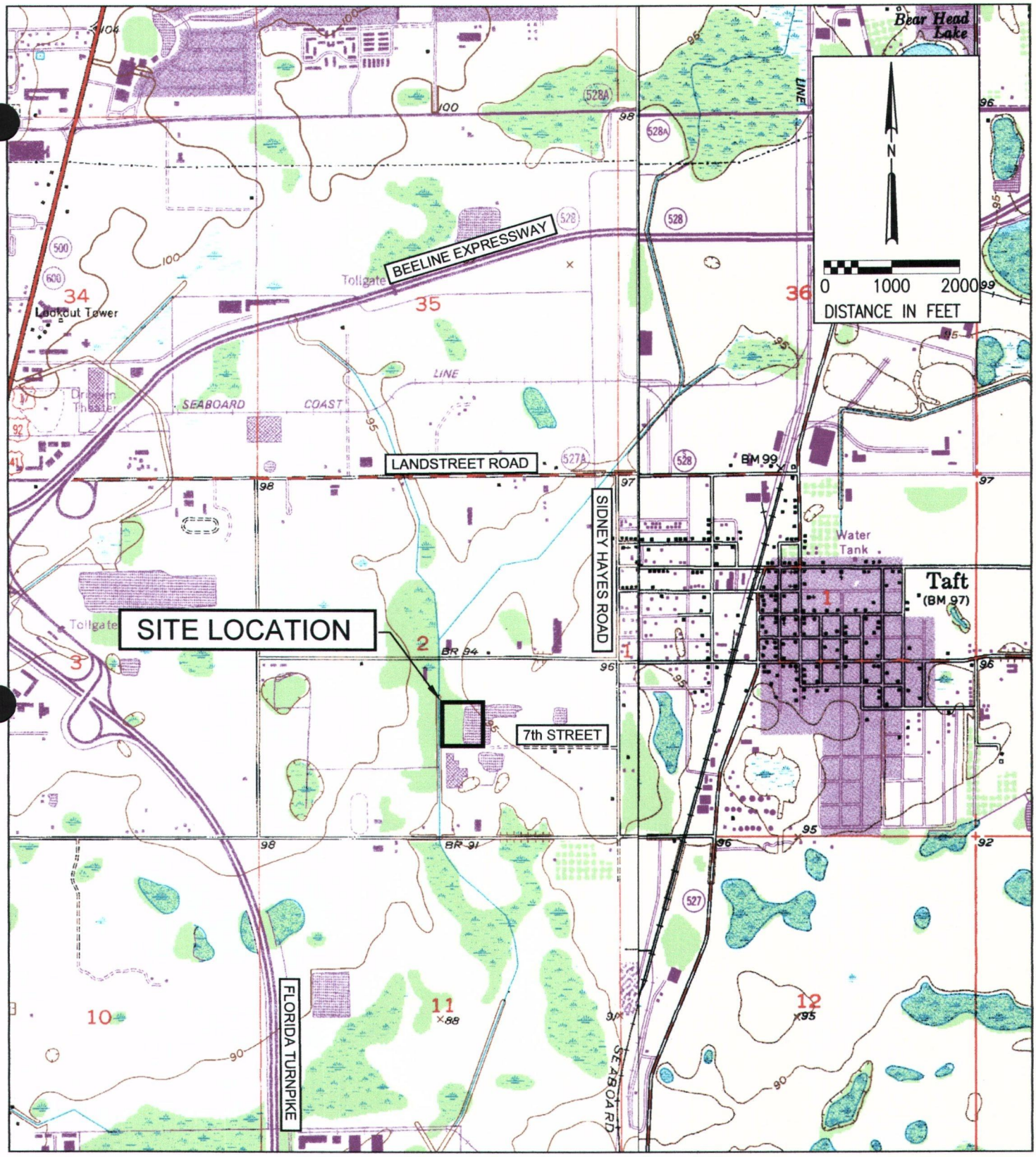
The reporting requirements include submitting a report annually (by April 1) which summarizes the amounts and types of waste received and the amounts and types of wastes disposed of or recycled. The annual report will be submitted on the FDEP Form 62-701.900(7), per F.A.C. 62-701.710(9). A quarterly report will be submitted to the county to record the solid waste type and quantity managed at the facility, including recycled, recovered and disposed materials.

4.0 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 County and State from bearing the cost of potential cleanup activities, surety bond in the amount as shown in Attachment E will be posted at the time of permitting. The purpose of the Bond 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 county and FDEP to allow time for a site inspection and closure certification.

FIGURES



SOURCE: USGS LAKE JESSAMINE AND PINE CASTLE, FLORIDA, 7.5 MINUTE QUADRANGLE MAP, 1980

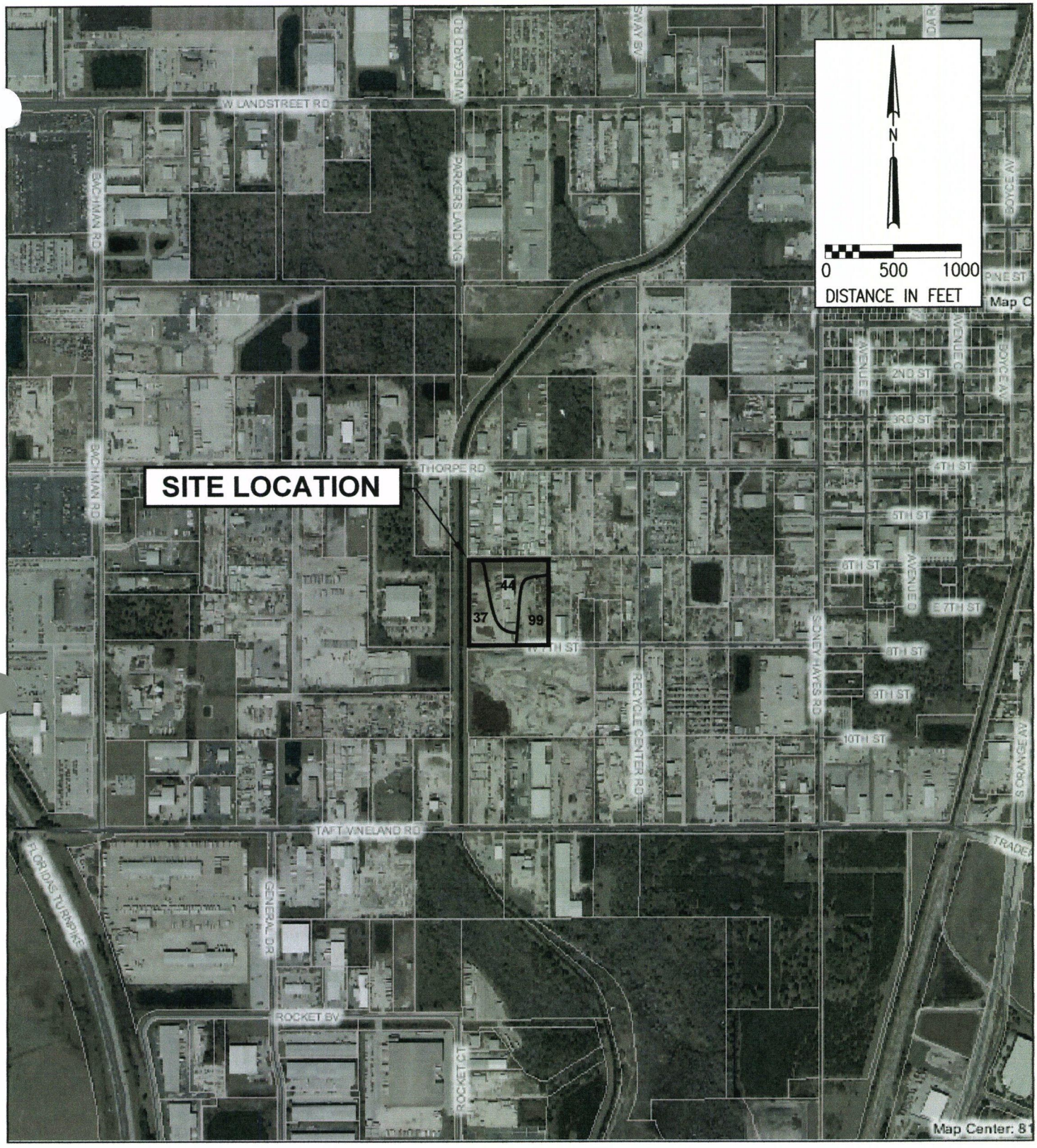
HSA Golden
Environmental & Engineering Consultants
225 East Robinson Street
Suite 100
Orlando, Florida
32801
Tel: 407 649-5475
Fax: 407 649-6582

PROJECT NO.: 03-297.013 MAY 2005

SITE LOCATION MAP

TAFT RECYCLING, INC
ORANGE COUNTY, FLORIDA

FIGURE 1



SOURCE: ORANGE COUNTY GIS DEPARTMENT AND ORANGE COUNTY SOIL SURVEY

LEGEND

37 St. Johns
44 Smyrna
99 Water

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Environmental & Engineering Consultants
225 East Robinson Street
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32801
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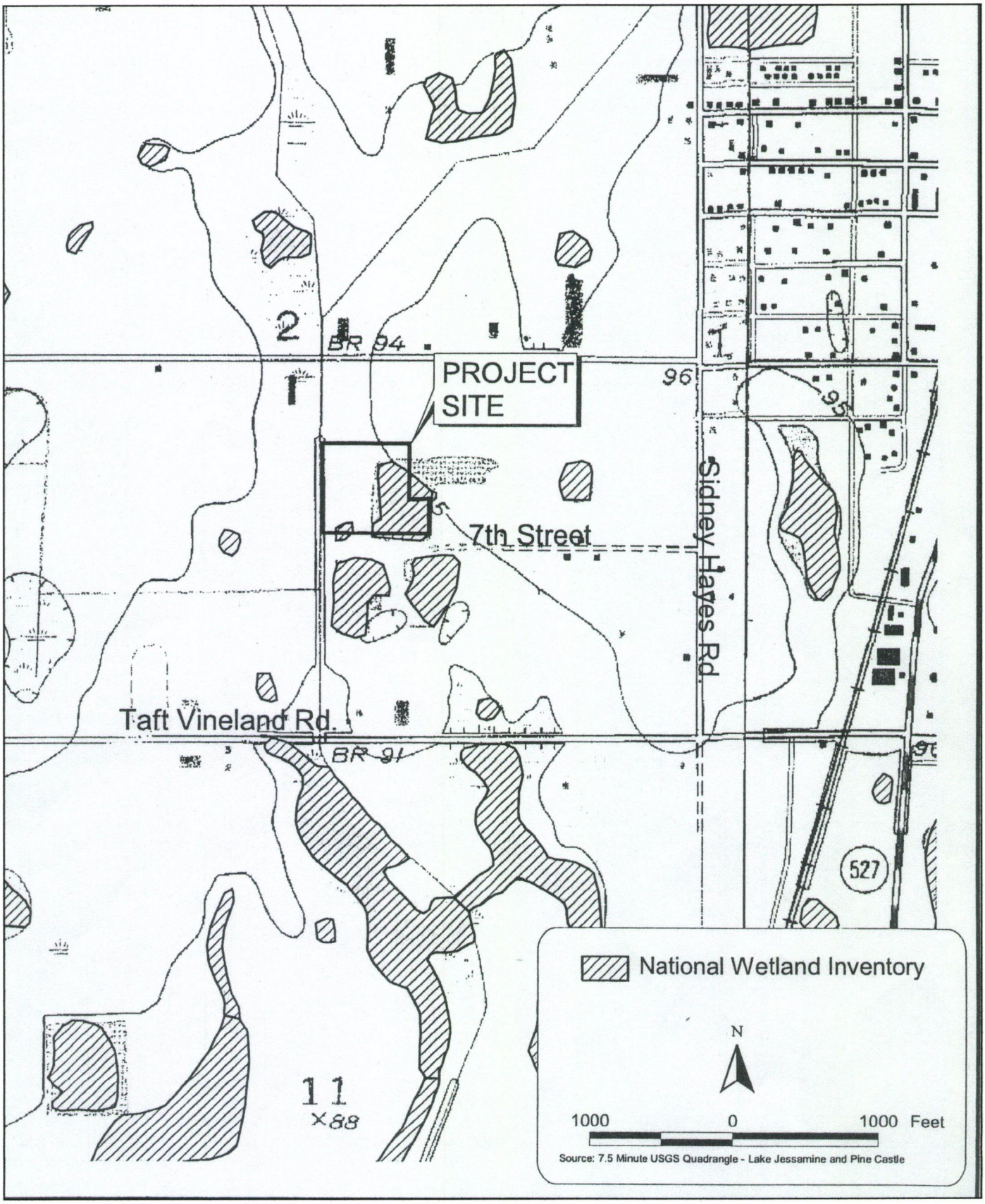
Fax: 407 649-6582

PROJECT NO.: 04-297.013 MAY 2005

SOIL SURVEY MAP

TAFT RECYCLING, INC
ORANGE COUNTY, FLORIDA

FIGURE 2



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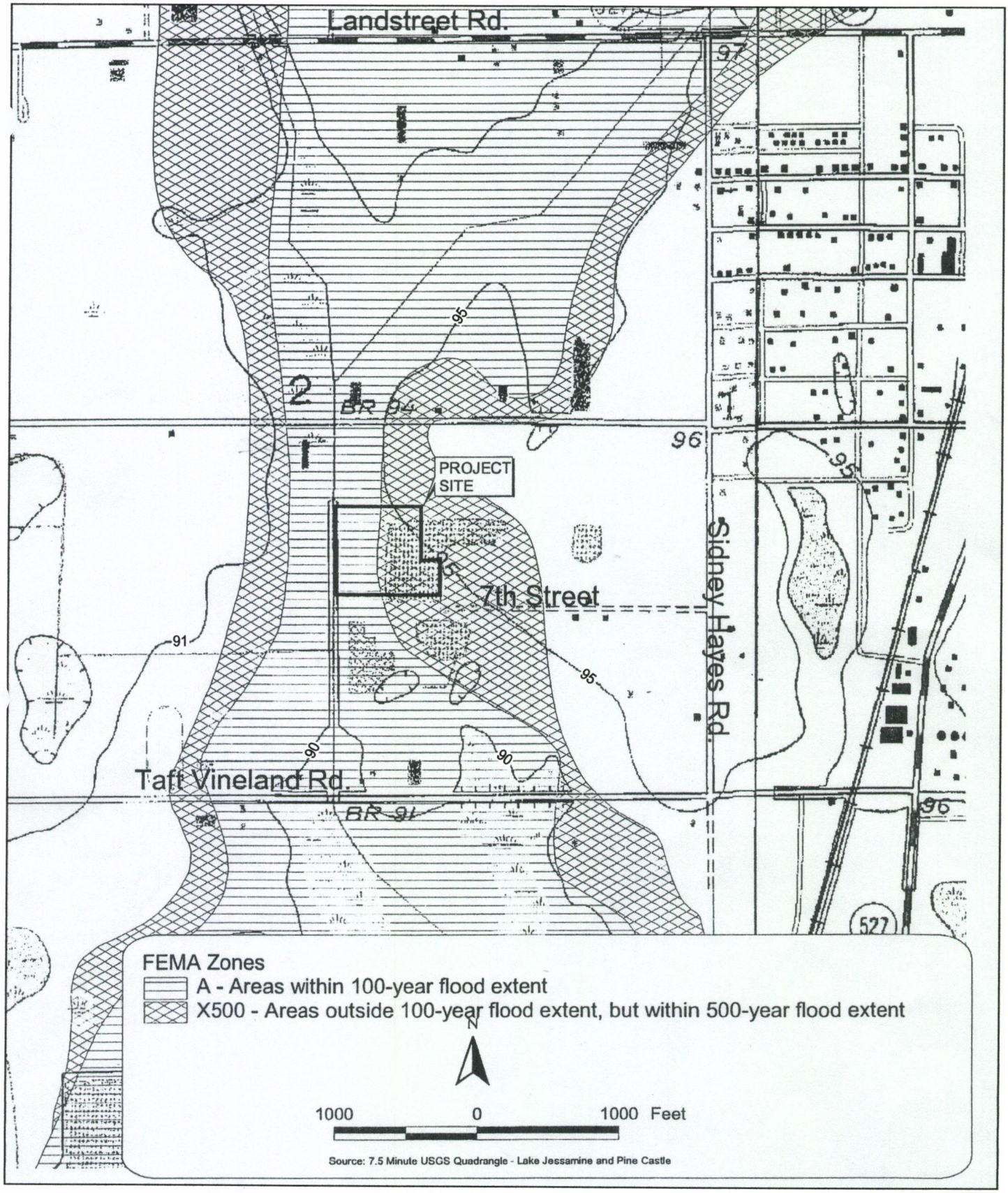
NATIONAL WETLAND INVENTORY

TAFT RECYCLING, INC
ORANGE COUNTY, FLORIDA

FIGURE 3



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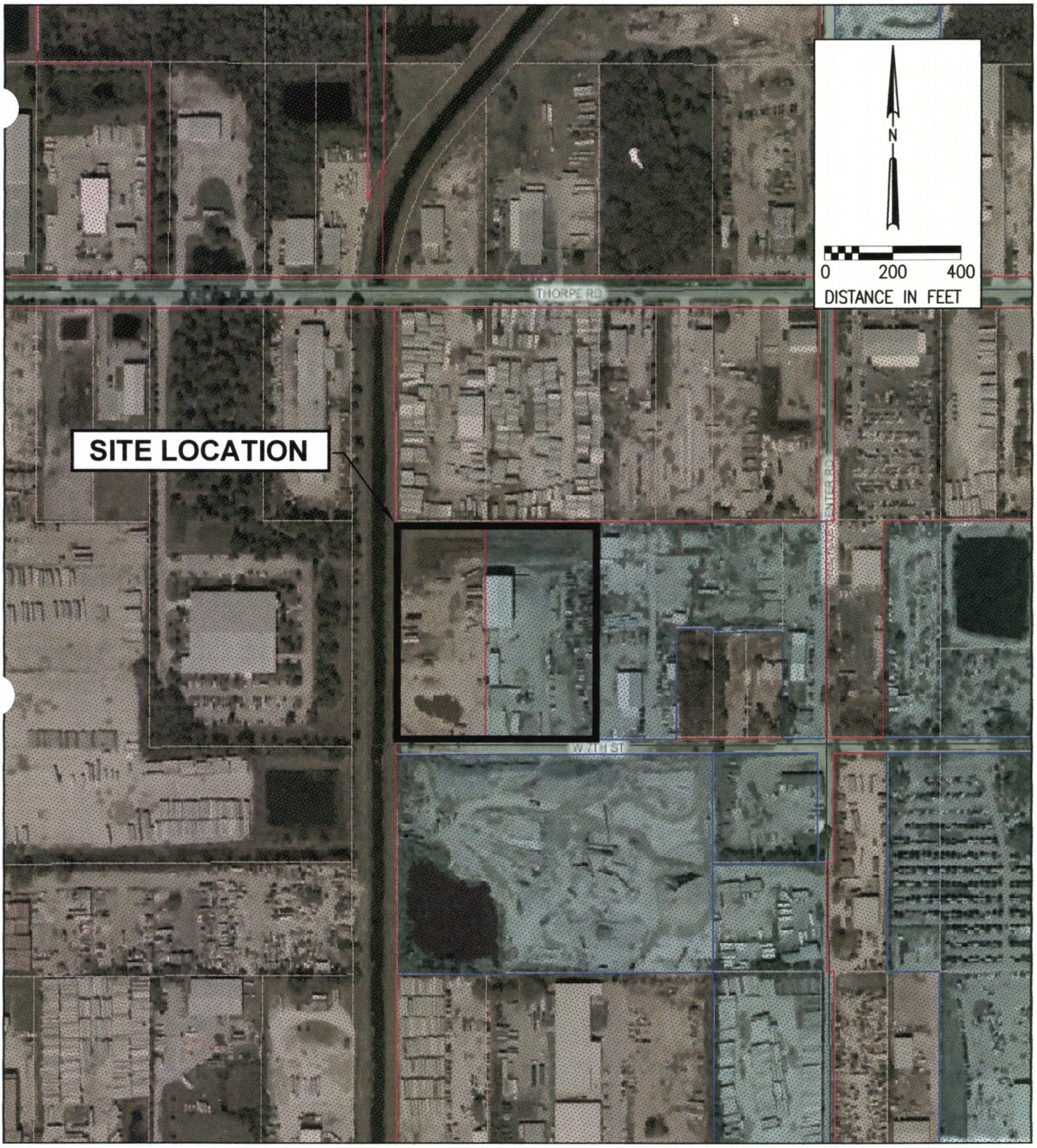
PROJECT NO.: 04-297.013 MAY 2005

FEMA FLOOD INSURANCE RATE MAP

TAFT RECYCLING, INC
ORANGE COUNTY, FLORIDA

FIGURE 4



SOURCE: ORANGE COUNTY GIS DEPARTMENT

EXPLANATION

ZONED IND-2

ZONED IND-4

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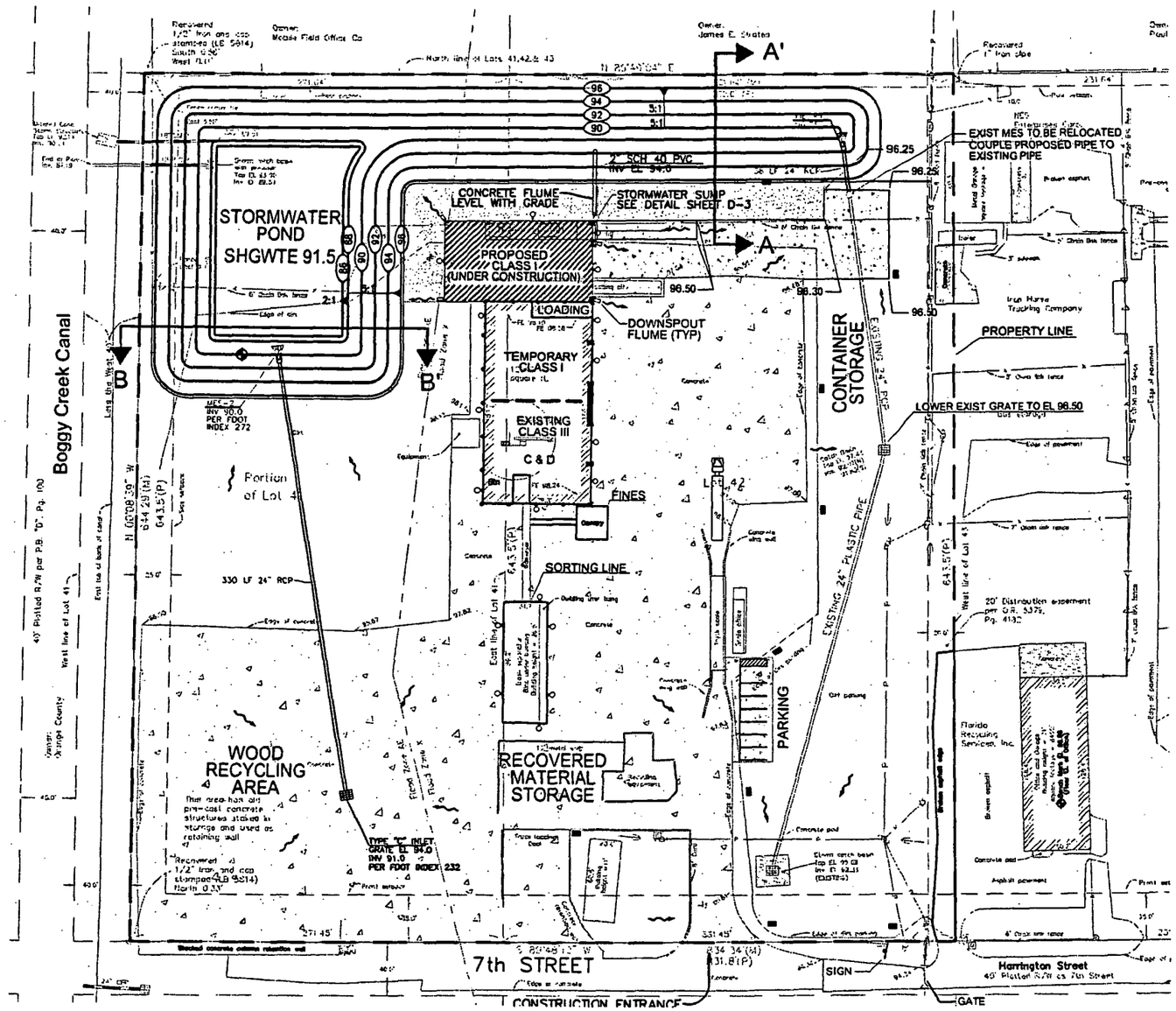
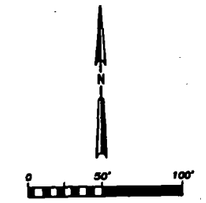
ORANGE COUNTY ZONING

TAFT RECYCLING, INC
ORANGE COUNTY, FLORIDA

FIGURE 5





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
- BUILDING UNDER CONSTRUCTION

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VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
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TAFT RECYCLING, INC.
ORANGE COUNTY, FLORIDA

CLASS I & III WPF PROPOSED SITE PLAN

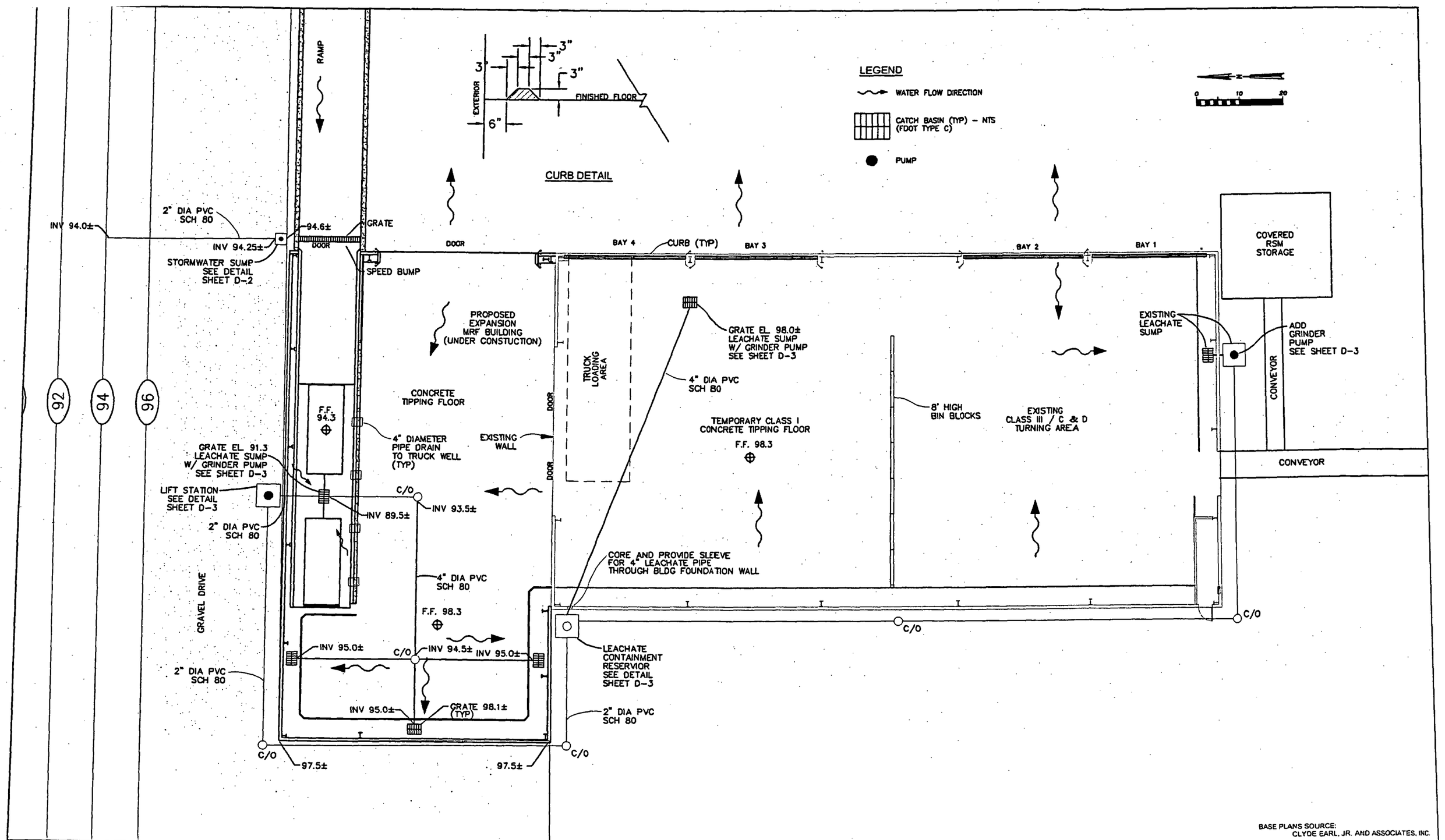
DATE	REVISIONS	REVISED	CHECKED
1/06/05	ADDED TEMPORARY CLASS I	JEG	DLL
9/23/04	PER FDEP COMMENTS	JEG	DLL

David L. Leggett, P.E.
P.E. No. 58667, FL
Engineering Business No. 9915
David L. Leggett
DATE 1-6-05

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

FILE: 04297001010.DWG

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



BASE PLANS SOURCE:
CLYDE EARL, JR. AND ASSOCIATES, INC.

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

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TAFT RECYCLING, INC.
ORANGE COUNTY, FLORIDA

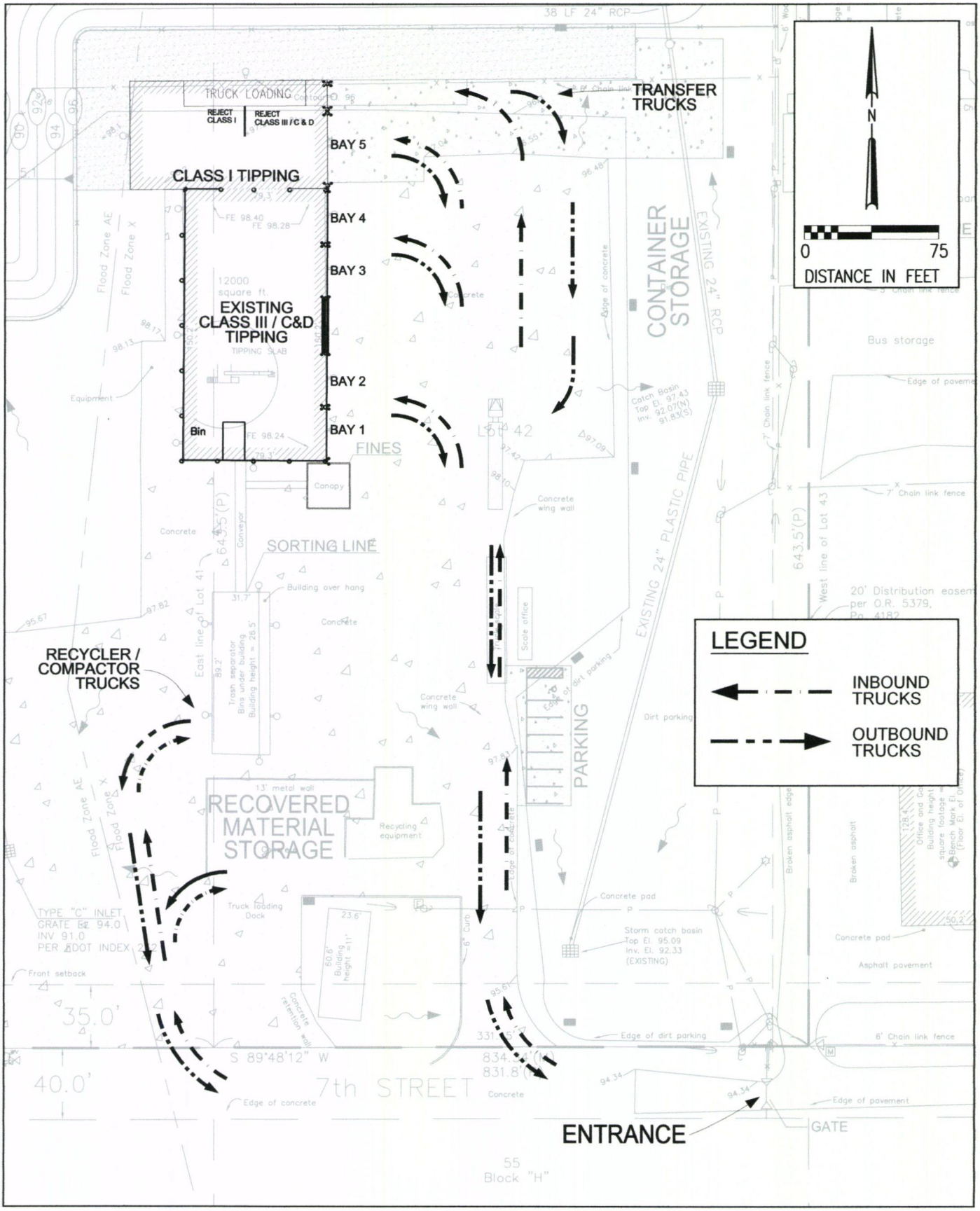
WASTE PROCESSING FACILITY EXPANSION LEACHATE COLLECTION SYSTEM PLAN

DATE	REVISIONS	REVISED	CHECKED
1/05	EXISTING BUILDING UPGRADES	JEG	DLL

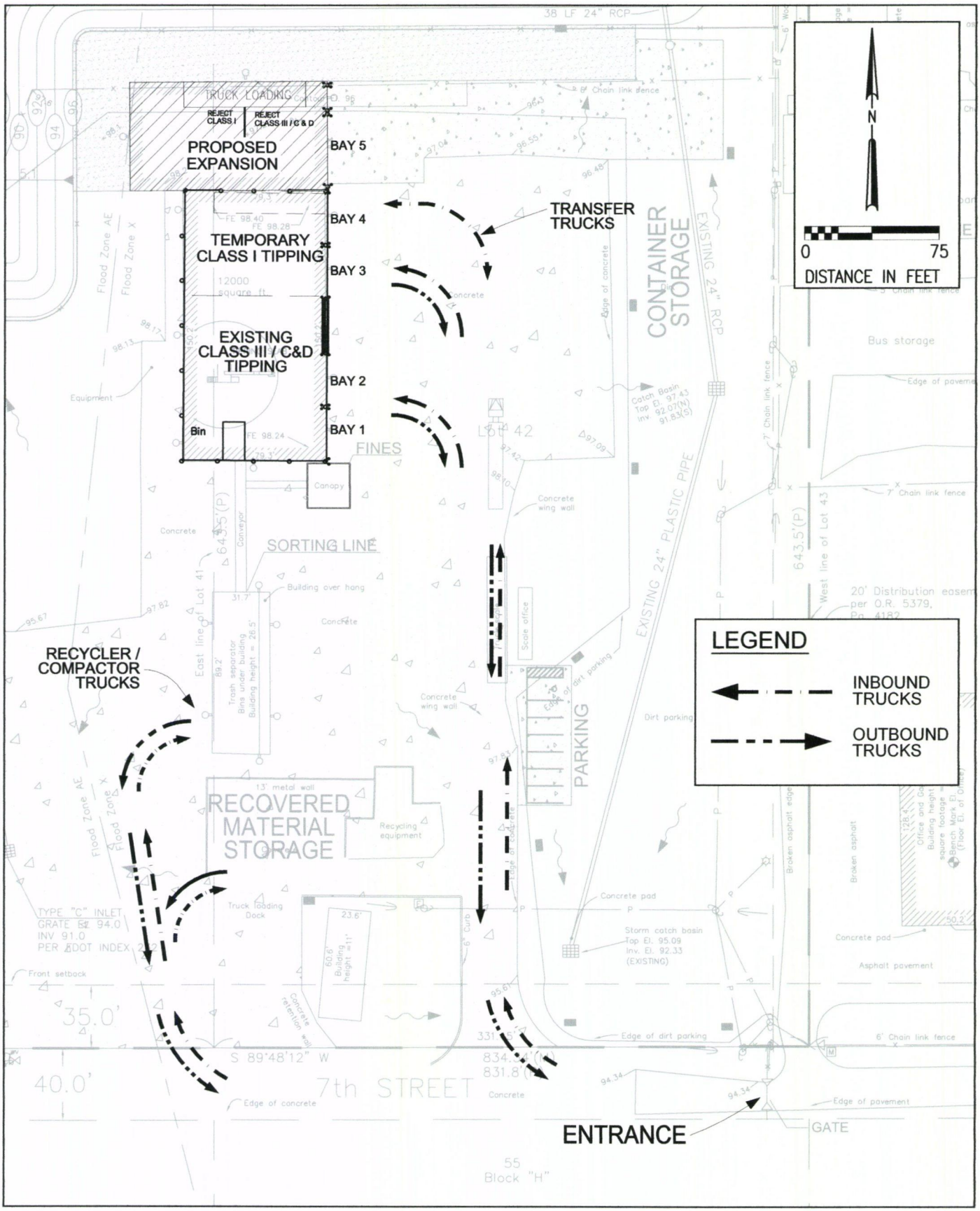
David L. Leggett, P.E.
P.E. No. 58667, FL
Engineering Business No. 9915

	BY	DATE
DESIGNED	JEG	10/04
DRAWN	DRD	10/04
CHECKED	DLL	10/04
QC APPROVAL	JEG	10/04

PROJECT NO. 04-297.005
SCALE AS NOTED
C-6A



HSA Golden	DATE: SEPTEMBER 2004	TRAFFICE FLOW PATTERNS
	SCALE: AS NOTED	TAFT RECYCLING, INC. ORANGE COUNTY, FLORIDA
	DRAWN BY: DRD	FIGURE D-2



HSA Golden	DATE: JANUARY 2005	TEMPORARY TRAFFIC FLOW PATTERNS
	SCALE: AS NOTED	TAFT RECYCLING, INC. ORANGE COUNTY, FLORIDA
	DRAWN BY: DRD	FIGURE D-2A

APPENDICES

APPENDIX A
AUTHORIZED/UNAUTHORIZED MATERIALS AND TREATED WOOD BMPS

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	

12/13/05

6.0 BEST MANAGEMENT PRACTICE (BMP) FOR TREATED WOOD

As is described in Section 4.0, the Department recognizes that it may be very difficult to selectively separate CCA-treated wood from other forms of treated wood. Consequently, this BMP is designed for to maximize the removal of all treated wood from the waste stream. By following this BMP, the Department will assume that all reasonable measures are being taken by the owner/operator to prevent the disposal or processing of CCA-treated wood at the facility.

6.1 Material Recovery Facilities (MRFs)

This Section applies to MRFs regulated under Rule 62-701.710, F.A.C. and C&D MRFs regulated under Rule 62-701.730(13), F.A.C. Typically, wood was separated from the waste stream at these facilities, size reduced, and used as landscaping mulch, boiler fuel or, when mixed with soil, initial cover at Class I landfills. In other cases the wood was disposed of in either Class III landfills or C&D debris disposal facilities. To ensure that significant quantities of treated wood are not managed in these ways at MRFs, the Department recommends that the following procedures be implemented by the owner/operator of the facility:

- Initial overhead load inspection: Incoming trucks must be inspected visually from overhead to look for dedicated loads[3] of treated wood, especially from contractors specializing in the demolition and construction of fences, decks and docks. The name of the company may help identify contractors who would be likely to have a dedicated load. All dedicated loads must be diverted for disposal at a permitted, lined landfill.

- Floor spotters and picking line workers: The MRF must include at least one floor spotter per sorting train at the facility. The floor spotters must observe loads as they are tipped onto the tipping floor and pull out larger pieces of treated wood that are listed in TABLE 1. The picking line workers must pull out the smaller pieces of treated wood listed in TABLE 1 not removed by the floor spotters. Separated treated wood must be placed in a roll-off container for disposal at a lined landfill.

- Training requirements: The owner/operator must implement a training plan designed to help floor spotters and picking line workers identify treated wood. This training plan is in addition to the trained spotter requirements contained in Rule 62-701.710(4)(c), F.A.C. Teaching aids like those shown in ATTACHMENT 1 may be used. A teaching tool "example board" like that shown in ATTACHMENT 3 must be posted near the picking line.

TABLE 1. Types of Wood That Are Typically Treated

Lumber, timber and plywood with a green color
Wood and wood posts from fences
Wood and wood posts from docks
Wood and wood posts from decks and outdoor stairs
Wood 4 inches by 4 inches or larger in diameter
Dimensional lumber labeled (with end tags) as treated wood
Wood from playground equipment
Lumber used in landscaping flower beds, gardens, etc.

- Spot-checking program: If wood is mulched at the MRF, the owner/operator must implement a monthly spot-checking program to evaluate how effectively they have been removing treated wood from the recovered wood waste stream. This program can include the PAN indicator test described in ATTACHMENT 2 to identify the presence of copper-treated wood. The program can also include more sophisticated testing procedures to look for arsenic-treated wood. The details of any spot-checking program will have to be developed case-by-case, with the purpose of helping the owner/operator improve operations. It is not intended to be used for compliance purposes, and detecting treated wood in the mulch should not be viewed as a violation of Department standards.

- Recordkeeping: The owner/operator must maintain records of the following: (1) volumes or weights of treated wood removed and disposed of a Class I landfill; (2) the name of the landfill used for disposal; (3) treated wood training records for the floor spotter and picking line workers; and (4) results of the monthly spot-checking program, if required. These records must be kept with the other operational records of the facility and maintained as required by Rule 62-701.710(9), F.A.C.

6.2 Yard Trash Processors and Other Authorized Mulching Operations

Yard trash processing facilities that receive and process only yard trash as defined in Rule 62-701.200(143), F.A.C. need not follow this BMP for their operations. The Department recommends that facilities that mulch or compost any clean wood[4] as defined in Rule 62-701.200(16), F.A.C., including yard trash processing facilities and mulching facilities as landfills, implement the following procedures.

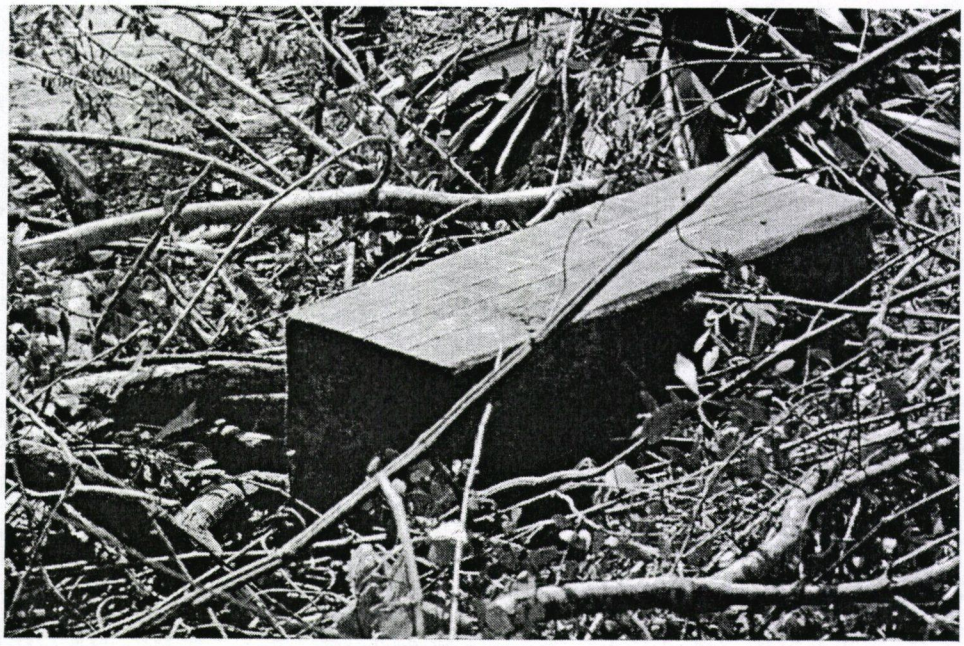
- No mulching of treated wood: The owner/operator (or spotter in the case of a landfill mulching operation) must make reasonable efforts to remove any treated wood listed in TABLE 1 from the wood waste stream prior to processing. Because of the difficulty of identifying it after-the-fact, extra care should be taken to assure that decorative wood mulches are free of treated wood. Any removed treated wood must be placed directly into a separate container and taken for disposal to a lined landfill.

- No burning: Treated wood must not be burned in open piles, air curtain incinerators or other uncontrolled conditions.

- Recordkeeping: The owner/operator must maintain records of the volumes or weights of treated wood removed and disposed of and the name of the landfill used for disposal. These records must be kept with the other operational records of the facility and maintained as required by the facility's permit or applicable rules.

ATTACHMENT 1

Pictures of Waste Loads That Typically Contain Treated Wood



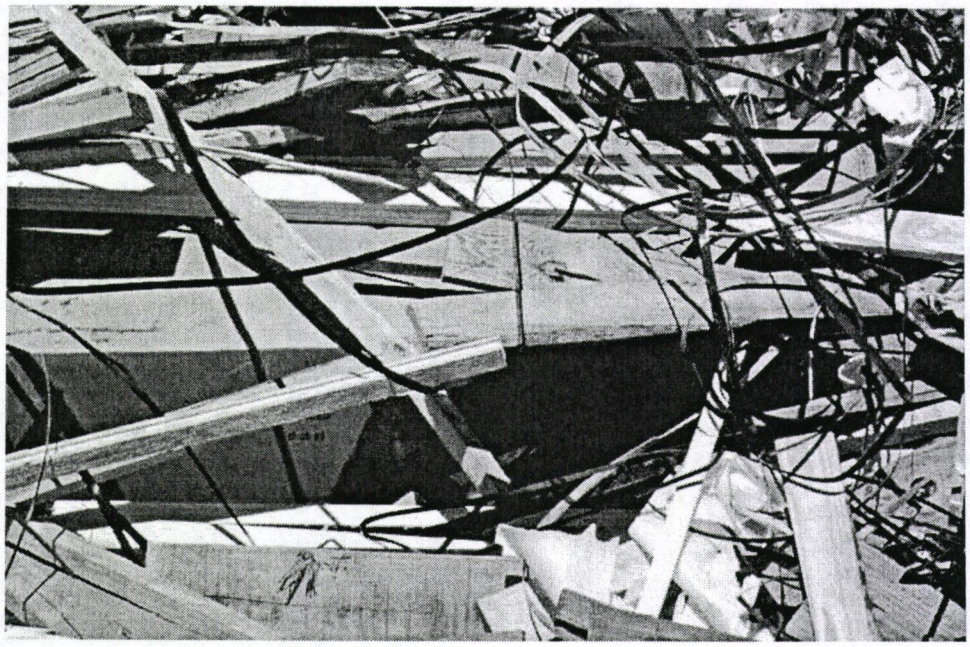
Loads of yard waste may contain CCA-treated wood from fencing, fence posts or landscaping timbers. This piece of wood is likely treated due to its green hue and large dimensions.

This load is a mix of yard waste, CCA-treated fencing and CCA-treated landscaping timbers. Treated wood can be identified based on the fact that it is sawn and is characterized by a green hue. The sawn board in the bottom is obviously treated. It is difficult to tell for the highly weathered sawn boards.

Loads from the demolition of outdoor structures will typically contain CCA-treated wood. Pole at the upper left is treated. Complete recovery of untreated wood from this pile will likely require testing in addition to visual separation.

The green colored pole in the front of this pile is treated. Complete recovery of untreated wood from this pile will likely require testing in addition to visual separation.

This load is almost solely CCA-treated wood. It came from a marine construction contractor.



This load is from a construction company that builds trusses and floor joists. It contains treated wood. Green colored sawn boards are treated. Other sawn boars may be untreated. Additional testing may be needed to confirm treatment.

ATTACHMENT 2

Pan Indicator Stain

PAN Stain Indicator

Principle: PAN stands for the chemical name of 1-(2-pyridylazo)-2-naphthol, an orange-red solid with a molecular formula $C_{15}H_{11}N_3O$. It is used to determine the presence of almost all metals excluding alkali metals. The reaction with the metals in CCA-treated wood produces a **magenta** to red color. Untreated wood turns **orange** in color. It is important to note that the stain is not specific to arsenic within CCA. It reacts with the copper, so that wood treated with any copper-based preservative (such as ACQ and Copper Azole) will also test positive using this stain.

Safety: Gloves and safety goggles should be used during the application of the stain. The stain should be applied in a fashion that would prevent inhalation. The stain should not be ingested and should be kept in a safe place that would prevent children or animals from ingesting the solution. An MSDS sheet is also available on this product that supplies additional safety information. You may also want to contact the chemical supplier of the stain for additional safety instructions. Receipt of the stain kit normally requires that the recipient sign a liability waiver.

Reagents: The PAN Indicator solution (a.k.a. "stain") can be purchased as a pre-mixed solution or the basic chemical ingredients can be purchased and mixed at a laboratory. The pre-mixed solution is more convenient but usually more expensive, in particular if large quantities of the stain are needed. If large quantities of stain are needed, a more economical option would involve purchasing the basic chemical ingredients and mixing these ingredients in a laboratory. The pre-mixed solution can be purchased from Spectrum Chemicals. The phone number for Spectrum Chemicals is 1-800-772-8786. The catalog number for the pre-mixed PAN indicator solution is: P-358. The formula for mixing the stain from the basic ingredients is 0.65 grams of PAN into 1 liter of methanol. One company that can provide the methanol solution is Spectrum Chemical (Phone number: 1-800-772-8786, Spectrum Number HS006 for a 20 liter container). The PAN (1-(2-pyridylazo)-2-napththol) chemical can be purchased from Sigma Chemical (Phone number: 1-800-325-3010, Product Number P9506 for a 25 gram bottle).

Procedure for Use

1. Using a dropper bottle, apply the stain to the wood. If the wood is relatively clean, the stain can be added directly to the wood. If the wood is soiled we recommend that a small area of the wood be carefully cut away to expose a clean area (approx 1 square centimeter). The stain works best if the wood is dry.
2. If testing mulch, it may be easiest to use a spray bottle. When using a spray bottle, be careful to spray the solution downwind to avoid inhalation.
3. Wait for color development (about 15 seconds). Color development is fastest if applied to the transverse direction of the wood instead of the radial direction.
4. Note the color. If the sample turns a magenta color, then the wood is positive for copper. If the wood turns orange in color, then the wood is negative for most metals and is considered untreated.

Interferences

1. Stain will not work properly on colored mulches or mulches that are very soiled.
2. Stain will sometimes react as positive with paint and nails on wood, even though the wood may be untreated.

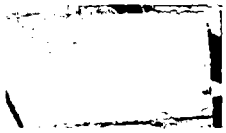
ATTACHMENT 3

Teaching Tools for Sorting Without Chemical Testing

Teaching Tools for Sorting Without Chemical Testing

NO TAR
NO ASFALTO

NO PAINTED
NO PINTURA



NO PRESSURE-TREATED
NO MADERA PRENSADA

NO OIL-SOAKED
NO MADERA CON ACIETE

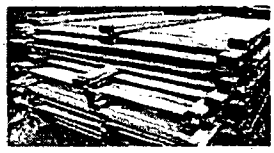
Materials Recycling Facilities (MRFs) and other facilities that will sort their waste wood can use signs like these to help sorters distinguish between wood that can be recycled and wood that should be sent to a lined landfill. Signs include Spanish and English text.

NO TELEPHONE POLES

NO POSTES DE TELEFONO

NO DECK WOOD
NO MADERA DE PUENTE

NO FENCE WOOD
NO MADERA DE CERCA



NO DOCK WOOD
NO MADERA DE MUELLES

The top example can be used to explain how to sort wood based on its treatment.

The bottom example can be used to explain how to sort wood based on the structure in which it was used.

APPENDIX B

MATERIALS 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	200 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

12/13/05

APPENDIX C

FACILITY OPERATIONS FLOW CHART

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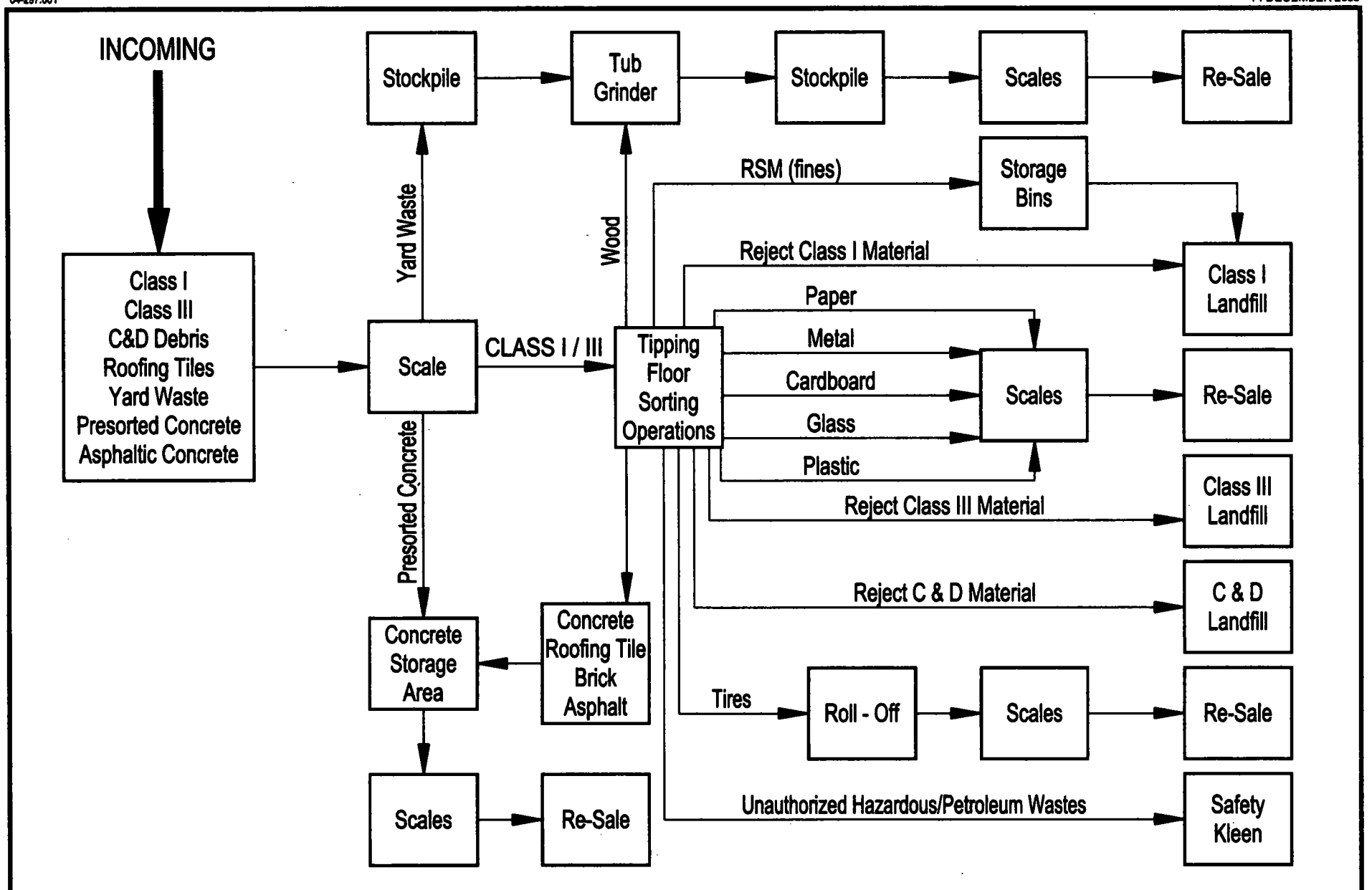
04-297.001

14 DECEMBER 2005



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, SCHEDULE OF TRAINING, CERTIFICATES

TAFT RECYCLING, INC.
TAFT, FLORIDA

TRAINING LOG

COURSE	TRAINED OPERATOR INSTRUCTOR	HRS. ATTENDED	SIGNATURES/ DATE

TAFT RECYCLING, INC.
TRAINING SCHEDULE

Personnel	*Job Title*	*Last Trained*	*Next Required Course Type / Date**
Bryan Manning	Transfer Station/MRF Operator	11/19/03	8-Hour Refresher / 10/25/06
Tony Santaniello	Transfer Station/MRF Operator	11/19/03	8-Hour Refresher / 10/25/06
To Be Determined	Spotters	N/A	Initial 8-Hour / 06/21/06; 08/23/06

*Dates approximate, TREEO schedule updated annually at www.Treeo.ufl.edu.

UNIVERSITY OF FLORIDA
TREEO CENTER

Calendar
SOLID WASTE MANAGEMENT FACILITIES COURSES

www.treeo.ufl.edu

	Courses	Continuing Ed Hours Awarded: I II III	C&D	Transfer	MRFs	Spotter	2006 Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
Initial Operator	▸Construction & Demolition Debris Landfill Short Course	16	16								Tampa 5/17-19							
	24-Hour Initial Training for Class I, II, III / C&D Operators	16	16					TREEO 2/22-24				TREEO 6/21-23					▸Tampa 11/15-17	
	▸SWANA-Manager of Landfill Operations [MOLO®]	16	16	8	8									Daytona 8/29-9/1				
	▸SWANA-MOLO Exam ▸SWANA-Recycle Sys Exam									Panama 4/4			Naples 7/27	Daytona 9/1			Tampa 11/16	
	19-Hour Initial Training for Transfer Station & MRF Oper	10	10	8	8		TREEO 1/26-27			TREEO 4/13-14			Naples 7/27-28			TREEO 10/19-20		
Initial Spotters	Basic Landfill Operations	8	8	8	8	8			Orlando 3/21									
	+ Spotter Training for Solid Waste Facilities	8	8	8	8	8	TREEO 1/18	TREEO 2/22		TREEO 4/25	Tampa 5/17	TREEO 6/21		TREEO 8/23	Sarasota 9/13	TREEO 10/25		TREEO 12/4
	Spotter Training for Solid Waste Facilities-*SPANISH*	8	8	8	8	8		Orlando 2/1			Tampa 5/17			Sarasota 8/16		TREEO 10/25		
	Training for Spotters at C&D Sites, Landfills and TS	8	8	8	8	8											▸Tampa 11/15	
Continuing Education	Groundwater Issues for Landfill Operators	8	8							TREEO 4/26								
	+ Health & Safety Training for Solid Waste Workers	8	8	8	8	8				Wn Hav 4/12					Sarasota 9/14			
	Landfill Gas Safety Training: Nature, Hazards, Regs 1-5pm	4	4			4		TREEO 2/8										
	Landfill Gas and Leachate Systems	8	8														▸Tampa 11/16	
	+Safety Awareness at Transfer Stations			8	8	8		TREEO 2/10						TREEO 8/24				
	Spotter Training for SWF-Refresher 1-5pm	4	4	4	4	4	TREEO 1/18	TREEO 2/22		TREEO 4/25	Tampa 5/17	TREEO 6/21		TREEO 8/23	Sarasota 9/13	TREEO 10/25		TREEO 12/4
	+Permit Required Confined Space Training	8	8	8	8			TREEO 2/9				TREEO 6/22					▸Tampa 11/17	
	+Excavation and Trenching Competent Person	8	8									TREEO 6/23						
	Introduction to Electrical Maintenance	16	16	16	16			TREEO 2/21-23										
	+HazMat Chemistry for The Non-Chemist	8	8	8	8	8										TREEO 10/23		
	+Chemical Compatibility and Storage	8	8	8	8	4										TREEO 10/24		
	Hazardous Waste Regulations for Generators	4	4	4	4	4			Tampa 3/31									
	U.S. DOT Haz Materials/Waste Transportation	6	6	6	6				Tampa 3/30									
	FL Stormwater, Erosion and Sedimentation Control	12	12	8	4				TREEO 3/6-7									
	Management of Leachate, Gas, Stormwater and Odor	8	8						Orlando 3/20									
Engineers	Landfill Design and Construction	28								TBA								
	Laws and Rules for Florida Engineers	*4 hours for PEs only*							Orlando 3/20	Panama ▸4/6	Tampa 5/18	Ft. Laud 6/14	Naples 7/27	Ft. WB 8/14				
	Leachate and Landfill Gas Management System Design	*16*									TBA							
OnLine	Two-Hour Spotter Refresher	2	2	2	2	2												
	Hazardous Materials Awareness for Solid Waste	5	5	5	5	2												
	HazWoper 8hr Refresher Online	4	4	4	4	4												

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

▸Courses offered in cooperation with SWANA - Florida Chapter

+On-site training available

Classification	Initial Course	Continuing Education
Class I, II & III / C&D Landfill	24 hours	16 hours
Transfer Station / MRF	16 hours	8 hours
Spotter [of all type facilities]	8 hours	4 hours

TREEO CENTER

Register online at www.treeo.ufl.edu

Information/agendas: www.treeo.ufl.edu or contact Dawn Jenkins, 352/392-9570 ext 227 or djenkins@treeo.ufl.edu

Updated: Tuesday, November 22, 2005

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	

	Courses	I II III	C&D	Transfer	MRFs	Spotter
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

ıris J. Roeder, senior training specialist, recently came to the University of Florida ƧEEO 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.

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., PhD.
Director

APPENDIX E
EMERGENCY TELEPHONE, HURRICANE PREPAREDNESS GUIDELINES

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
Mike Massaro - Regional Manager	
Office	(407) 851-0074
Mobile	(407) 509-2196
Florida Department of Environmental Protection - James Bradner	(407) 894-7555
Orange County Environmental Protection Division - Arnaldo Mercado	(407) 836-1400

HURRICANE PREPAREDNESS GUIDELINES
Taft Recycling, Inc.
Waste Processing Facility

1.0 HURRICANE SEASON PREPARATIONS FOR EQUIPMENT/VEHICLES

1.1 Procure hurricane emergency supplies, such as plywood, trailer anchors, chain, rope, and tape.

1.2 Recheck and update vehicle and equipment storage requirements.

1.3 Recheck availability and location of privately-owned rental heavy equipment.

1.4 Review all on-hand equipment and vehicle resources and identify shortfalls.

1.5 Identify and make a list of all commercial equipment and vehicle vendors who would be available to provide lease equipment, spare parts, tires, fuel, etc.

1.6. Review, and update as necessary, operational personnel equipment/vehicle assignment lists.

2.0 HURRICANE SEASON PREPAREDNESS FOR FACILITIES

2.1 Prepare a plan for securing the Taft facility.

2.2 Identify and plan for office equipment and supplies necessary to continue facility operations.

2.3 Designate a safe-haven area(s) for office equipment and supplies and review procedures to get equipment and supplies to the pre-designated safe-haven area(s).

2.4 Procure hurricane emergency supplies (see paragraph 1.1).

3.0 HURRICANE SEASON PREPARATIONS FOR PERSONNEL

3.1 Procure and maintain supplies at a self-sufficiency level for a 72-hour post-hurricane event.

3.2 Train employees in pre-landfall securing of the Taft facility, equipment, and post-landfall damage assessment.

4.0 72-HOUR PRE-LANDFALL PREPARATIONS

4.1 Check all outside areas for loose materials; move inside or secure in place.

4.2 Fuel all vehicles, equipment, generators, etc.

4.3 Tape or cover windows, sandbag doorways, and secure buildings for stormy weather.

4.4 Fill all bulk fuel storage tanks below 75% capacity.

4.5 Check all battery-operated equipment, e.g., radios, cellular phones, laptop computers, etc., and ensure that they are operational, charged, and have a back-up power source.

4.6 Listen to local radio and television for updates on the hurricane's approach.

5.0 HURRICANE WATCH: 48-HOUR PRE-LANDFALL PREPARATIONS

5.1 The Taft facility Command Post will be established and activated.

5.2 All Taft Operators will report status to the Command Post.

5.3 All required vehicles and equipment will be serviced and ready for use.

5.4 All bulk fuel storage tanks below 75% are to be filled.

5.5 Clean up, tie down, or properly store all items that could be blown away or damaged by high winds and flood waters.

5.6 Make notification and announcements to waste haulers, vendors, contractors, etc.

5.7 Install generators at designated facilities.

5.8 Cancel all requests for leave for key personnel who will be placed on stand-by notice.

5.9 Inform employees and contractor personnel regrading hurricane status and work schedules.

6.0 HURRICANE WARNING: 24-HOUR PRE-LANDFALL PREPARATIONS

6.1 Secure or cover all recovered or wood materials outside of the building.

6.2 Close the Taft facility and secure all vehicles and equipment.

6.3 Top off all vehicles and equipment that are not filled with fuel.

6.3 Advise solid waste collectors and major haulers of Taft status.

6.4 Make a visual check of the area and facilities before releasing personnel.

6.5 Release personnel as instructed by Taft Site Manager/Operator.

6.6 Close all gates and verify that they are secured.

7.0 HURRICANE LANDFALL

7.1 Listen to media for instructions.

7.2 Evacuate as instructed.

7.3 Key personnel are to remain at home, if possible, or the "Disaster Shelter" for contact.

APPENDIX F

SIGNAGE

TAFT RECYCLING SERVICES
CLASS I AND CLASS III MATERIAL RECOVERY FACILITY
375 7th STREET
TAFT, FLORIDA

Phone No.: _____
24 Hr. Phone No.: _____

Typical Hours of Operation
24 Hours a Day
Monday - Saturday

4.0'

ACCEPTABLE WASTES: Class I, Class III, Construction and Demolition Debris

UNACCEPTABLE WASTES: Hazardous wastes, paint, waste oil, appliances, auto parts, batteries, medical wastes.

TIPPING FEE: $ _____ per ton - Class I (MSW)
$ _____ per ton - Mixed Class III

WARNING: We will be sorting all loads for prohibited wastes. Any acceptable wastes/loads will be rejected and may be reloaded onto a vehicle to be taken to an appropriate disposal facility at your expense.

8.0'

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

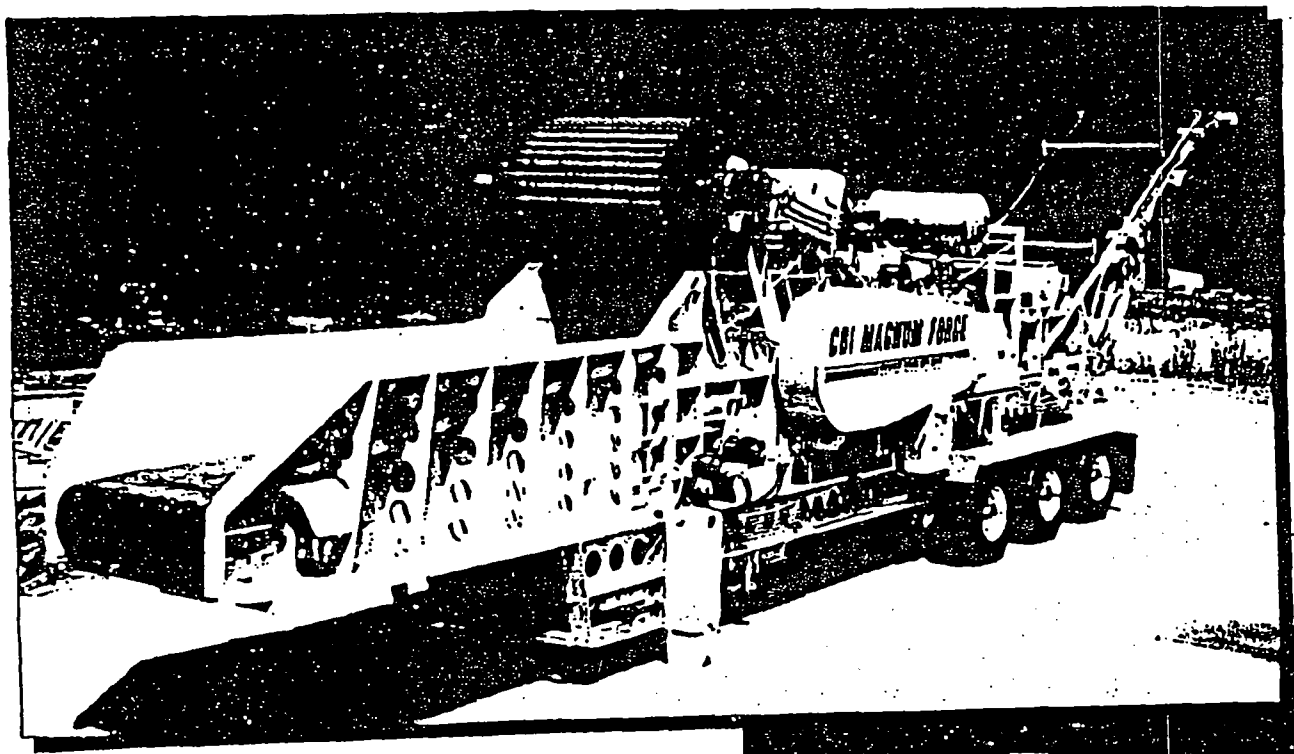
12/13/05

APPENDIX H

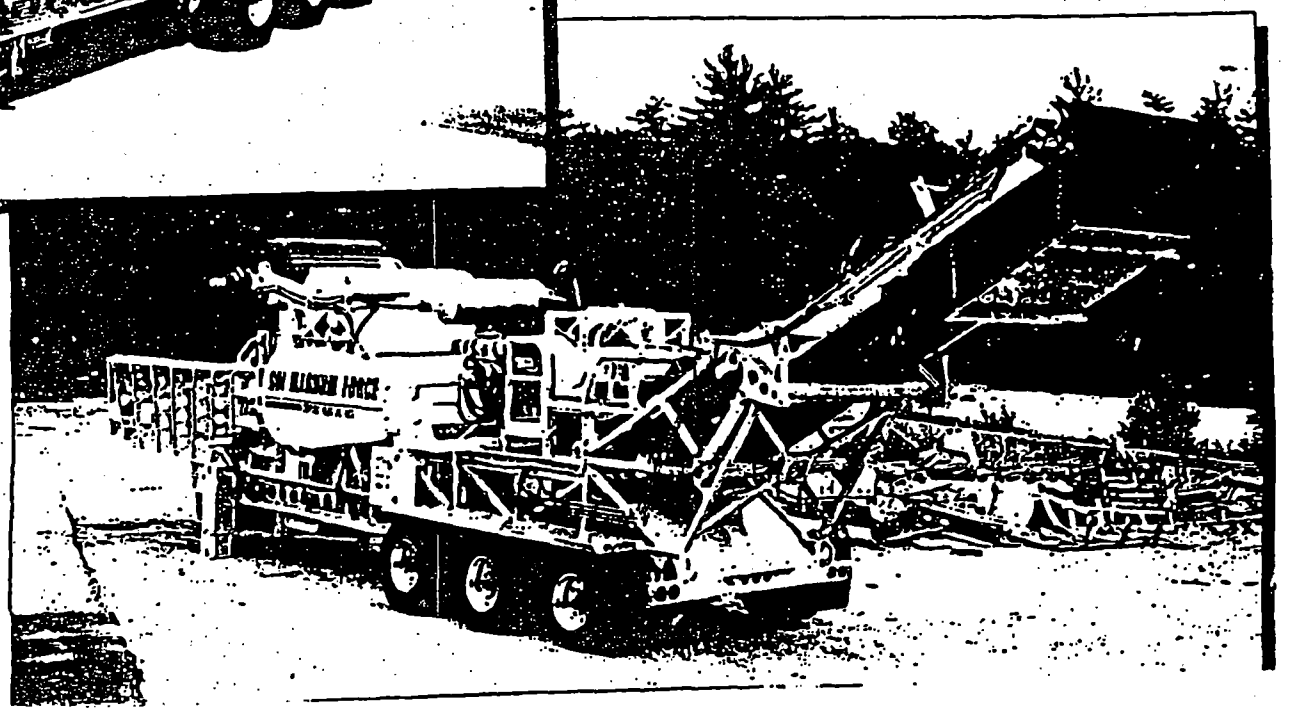
EQUIPMENT CUT SHEETS

CBI MAGNUM FORCE

Series 4800 HZ Hog



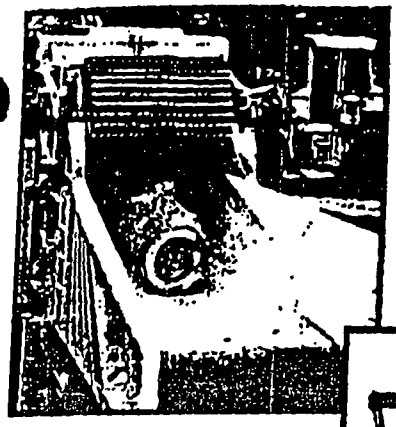
The ultimate land clearing machine grinds full length trees, stumps, and brush at an unbeatable throughput rate. Easily transportable both on and off the road. Safe to operate– no flying debris.



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.

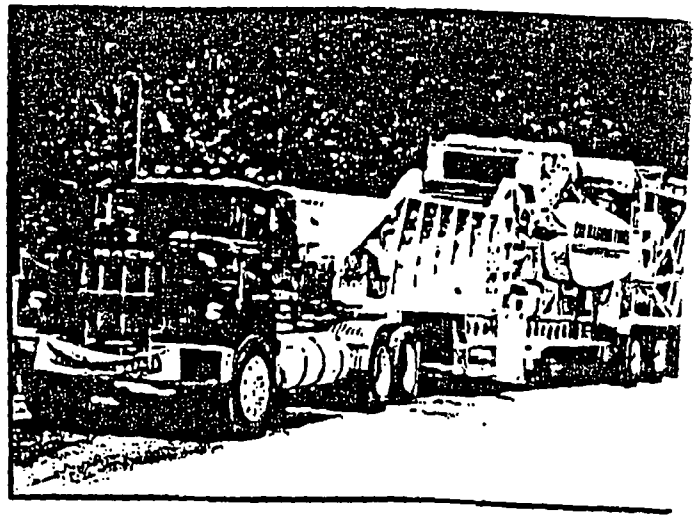
Load-regulated feed system.

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

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

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.

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 wi full independent mechanical backup.

Gil FREDSALL 1-800-59.

Distributed by:

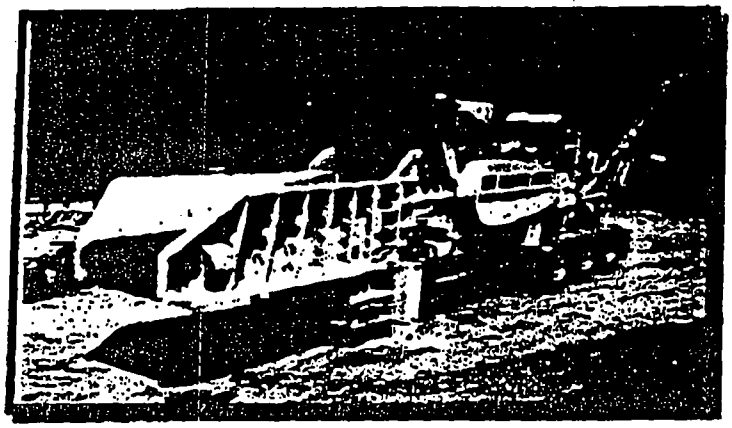
Continental Biomass Industries, In

Manufacturers of Stationary and Portable Biomass Recovery Systems

22 Whittier Street, Newton, NH 03858

Tel. 603-382-0556 Fax 603-382-0557 John C,

Continental Biomass Industries, Inc.



CBI MAGNUM FORCE
Model 4800

RETAIL PRICE SHEET
Effective June 18, 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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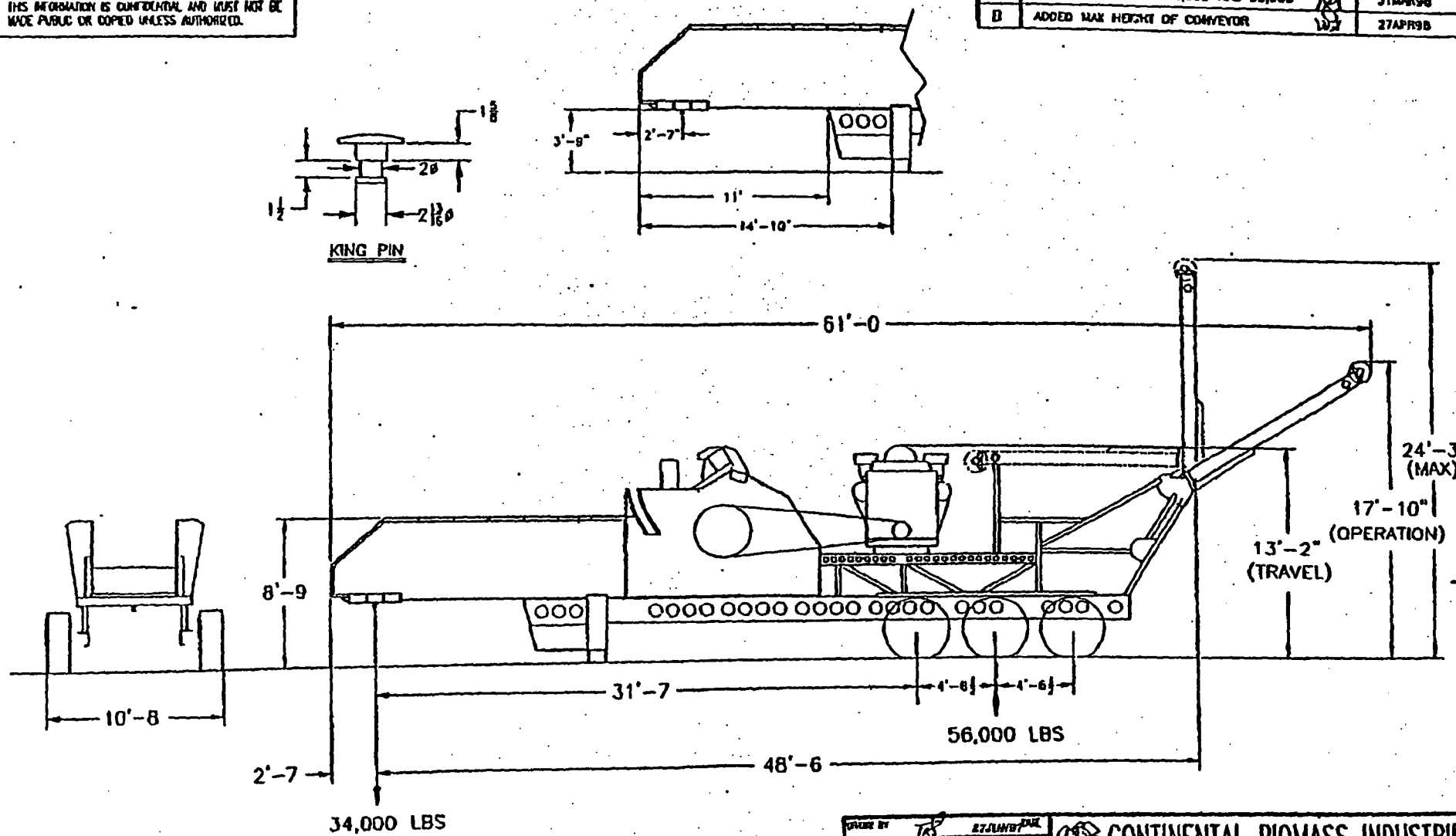
REVISION

REV	DESCRIPTION	DATE/APVD
A	90,000 WAS 66,800 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 FT^2 GRATE SURFACE AREA 1 1/2" THICK

DRAWN BY 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

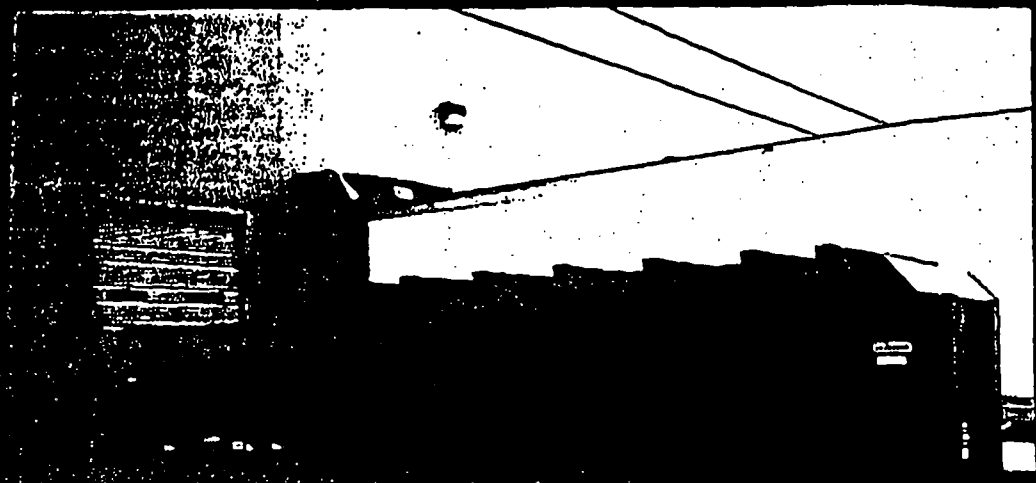
SIZE C | DWG NO 00910008 | REV B

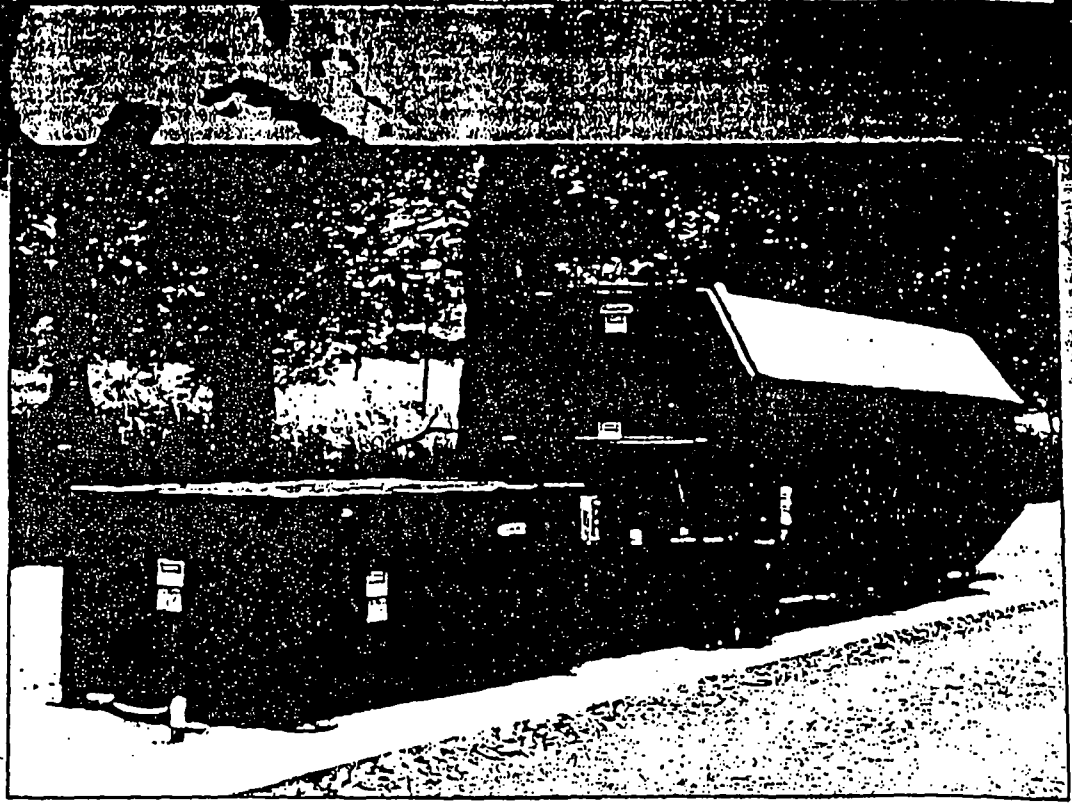
SCALE: | SHEET 1 OF 1

TOTAL P.07

Galbreath®

Stationary Compactors

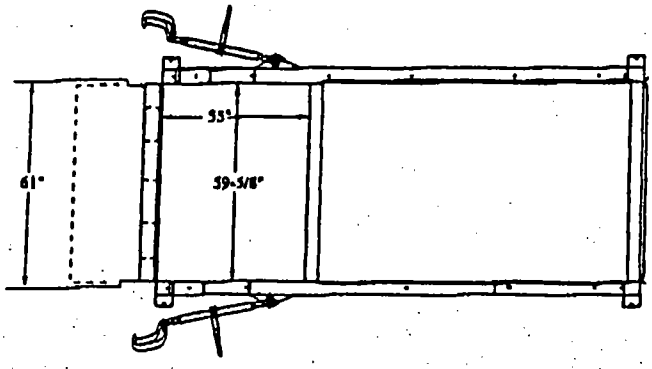




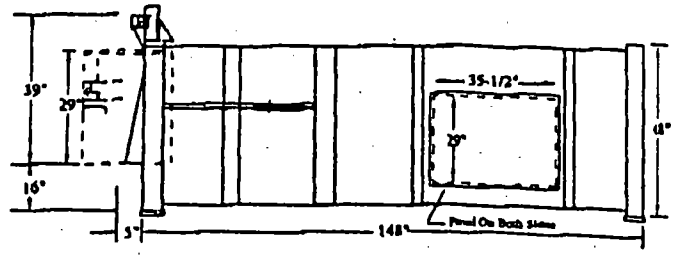
Advanced design, superior engineering provides years of reliable service life.

PakFORCE SPECIFICATIONS

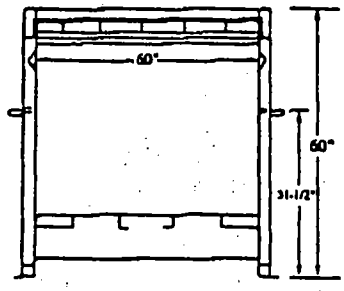
Top View



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

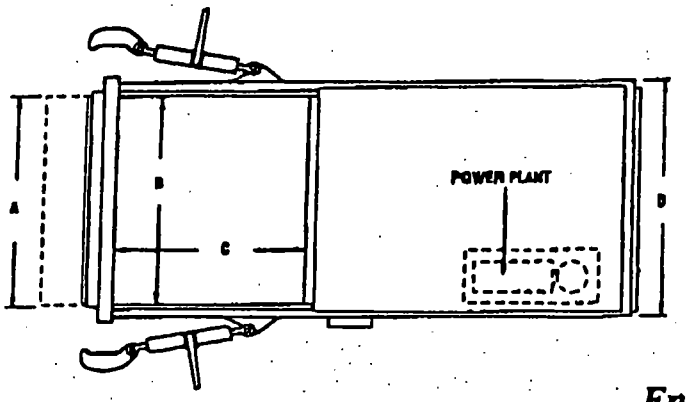
- Electro-Mechanical Power Unit
- Pressure Gauge
- Oil Heater
- Photoelectric Eye
- Low Oil/High Temperature Shut Off Sensor
- Drive-On Ramp
- Internal Power Plant
- Hoppers
- Chutes
- Weather Cover
- Interlock Switch On 30' Sealtite

Specifications...designed for superior performance and efficiency.

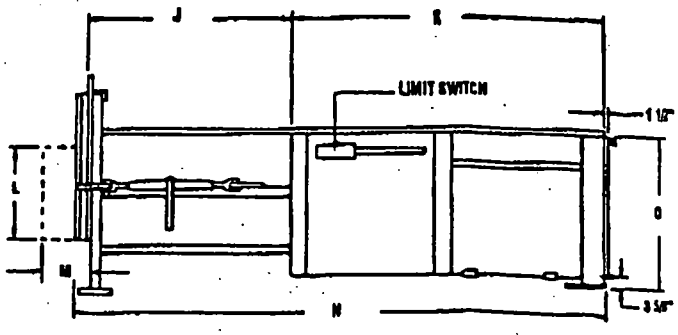
Advanced design, superior engineering provides years of reliable service life.

GP Series SPECIFICATIONS

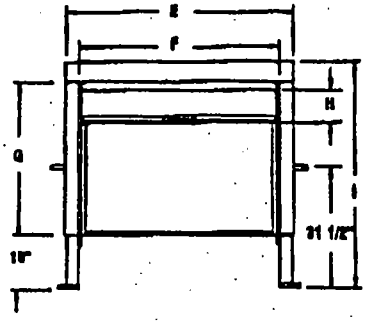
Top View



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 Crab 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

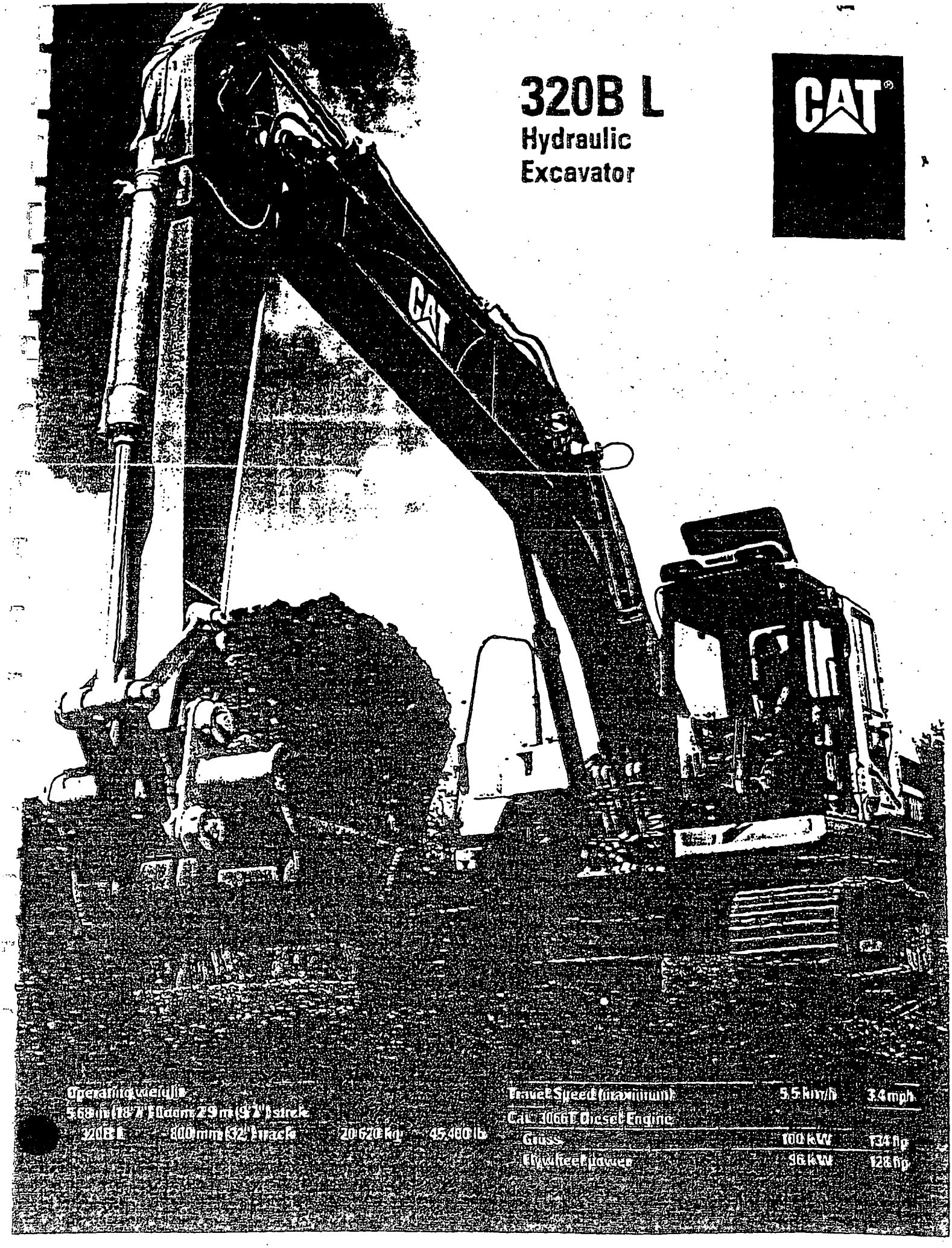
- Container Full Light (1950 PSI)
- 3/4 Container Full Light (1550 PSI)
- Hold to Operate Controls
- Multi-Cycle Timer
- External Power Plant (controls mounted c power unit)
- Remote Control Pendant for External Power Pl
- Pressure Gauge
- Oil Heater
- Photoelectric Eye
- Low Oil/High Temperature Shut 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.

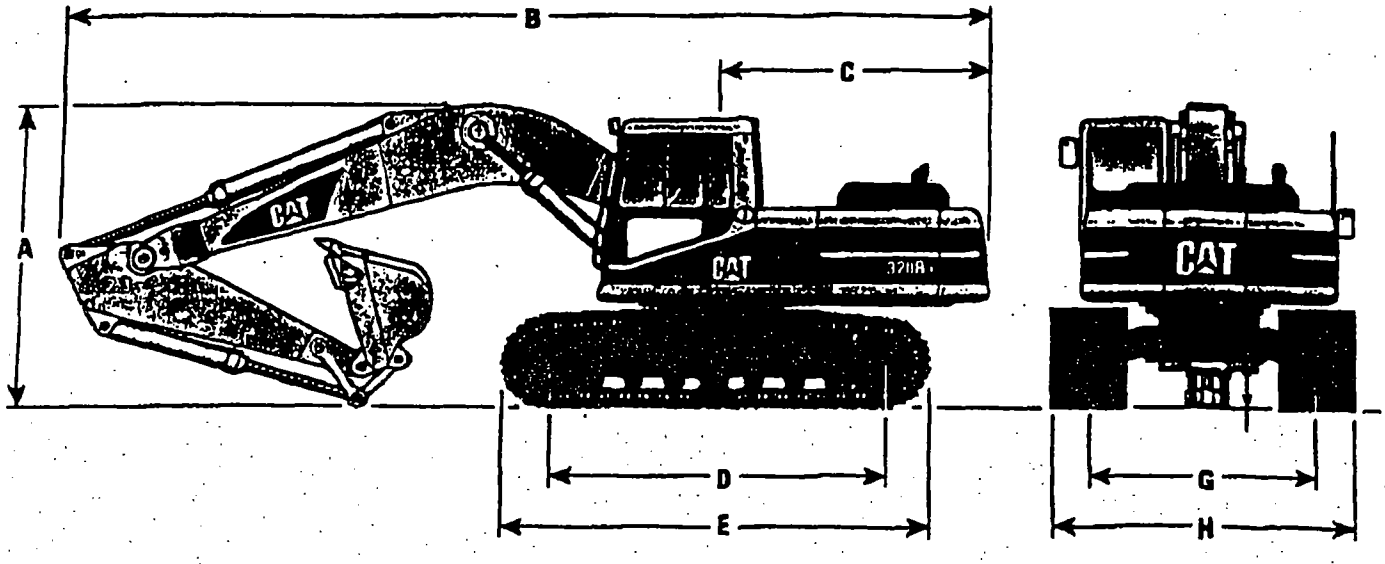
	GP-350	GP-450	GP-550	GP-450HD	GP-550HD
Mfg. Rating	3 Cu. Yds.	4 Cu. Yds.	5 Cu. Yds.	4 Cu. Yds.	5 Cu. Yds.
NSWMA Rating	2.54 Cu. Yds.	3.26 Cu. Yds.	4.19 Cu. Yds.	3.26 Cu. Yds.	4.19 Cu. Yds.
Cycle Time	41-86 seconds - varies depending on pump and motor configuration.				
Packing Force-Norm.	55,100 Lbs.	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



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")

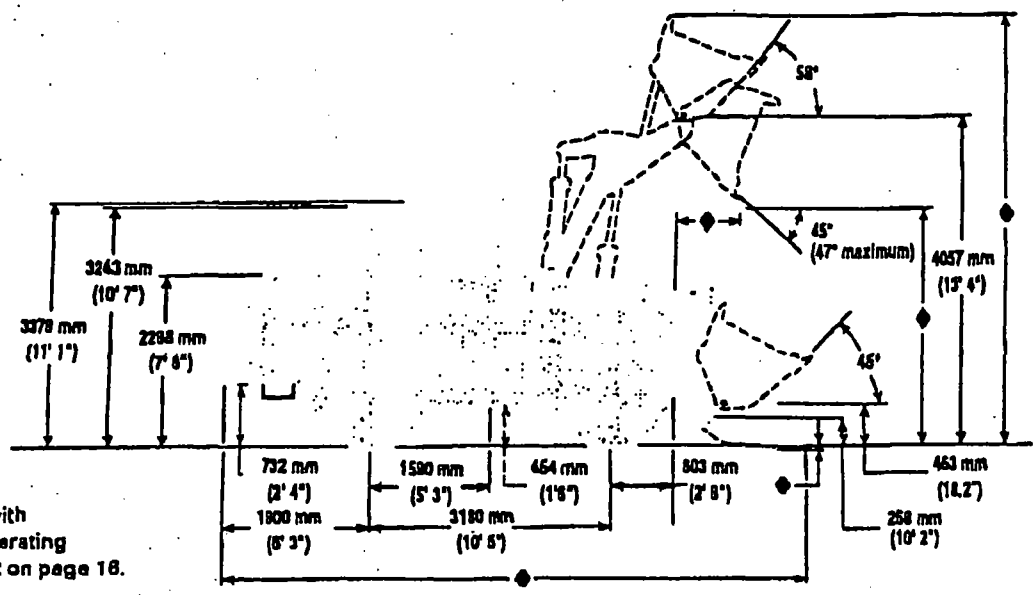
Operating Weight	600 mm (24") Shoes		700 mm (28") Shoes		800 mm (32") Shoes	
	kg	lb	kg	lb	kg	lb
Sticks:						
3.9 m (12'8")	20 180	44,500	20 540	45,200	20 860	45,900
2.9 m (9'7")	19 940	43,900	20 300	44,700	20 620	45,400
2.5 m (8'2")	19 900	43,800	20 240	44,600	20 580	45,300
1.9 m (6'3")	20 300	44,700	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

Bucket capacities	3.5 to 3.5 m³	4.0 to 4.5 yd³
Operating weight	17 698 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.

ATW: Jim
RE: Bid Lighting (Existing)
* 400 watt Metal Halide Hig Bay Lights

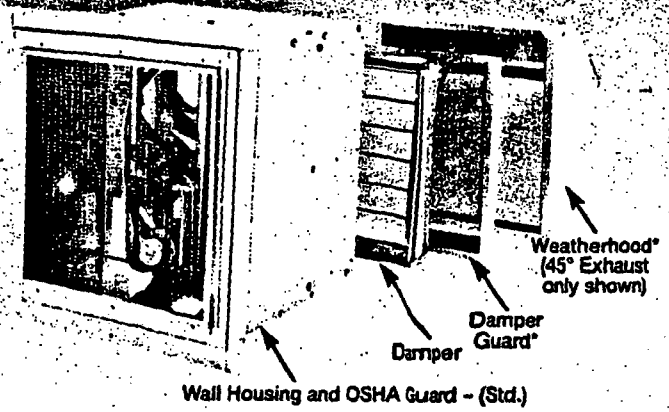
High Intensity Discharge Lamps

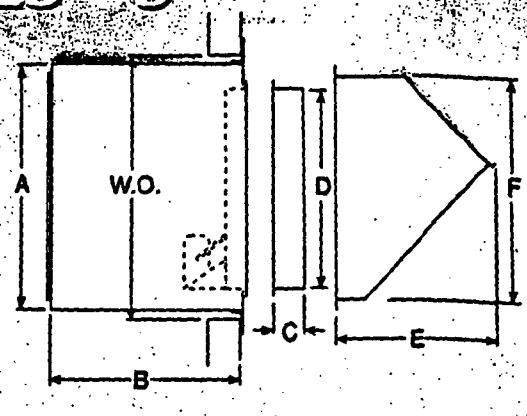
Lamp Watts	Bulb	Base	Product Number 046877-	Ordering Code	ANSI Code	Pkg. Qty.	Description (Operating Position — Universal, unless otherwise indicated)	L.C.L. (in.)	M.O.L. (in.)	Rated Avg. Life Hrs.(351)	Approximate Lumens(352): Initial	Mean(353)	CRI	CCT(K)
Metal Halide Lamps														
175 (Enclosed fixtures only) Operate on ANSI specified "M57" Metal Halide Ballasts.	ED-28	Mog.	28733-4	MH175/U	M57PE-175	12	*G, & St. Lig., Clear (372)(377)	5	8¼	10,000 (385)	13,000	10,350	65	3700
			28728-4	MH175/C/U	M57PF-175	12	*G, & St. Lig., Phos. Coated (372)(377)	5	8¼	10,000 (385)	13,000	9500	70	3400
			31287-6	MH175/3K/BU	M57PF-175/BU	12	*G, Vert. ± 15° Phos. Coated (372)(374)(377)		8¼	10,000	12,000	9000	70	3200
		POMB	28649-2	MS175/HOR	M57PE-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	M57PF-175/HOR	12	*G, Hor. ± 45° Phos. Coated (372)(374)(377)		8¼	7500	15,000	11,300	70	4100
	PAR-38 ▲	Med.	30858-5	MH175/RLP	M57	6	*G, Clear, 50° Beam (372)(377)		5¾	7500	11,000		65	4100
		☐	31518-5	MH175/RSP	M57	6	*G, Clear, 16° Beam (372)(377)		5¾	7500	11,000		65	4100
250 (Enclosed fixtures only) Operate on ANSI specified "M59" Metal Halide Ballasts.	ED-28	Mog.	27484-5	MH250/U	M58PG-250	12	*G, & St. Lig., Clear (372)(377)	5	8¼	10,000	20,500	17,000	65	3700
			29169-0	MH250/C/U	M58PH-250	12	*G, & St. Lig., Phos. Coated (372)(377)	5	8¼	10,000	20,500	16,000	70	3400
			31137-3	MH250/3K/BU	M58PH-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	M58PG-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	M58PH-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)		7¼	7500	18,000		62	3800
400 (Enclosed fixtures only) Operate on ANSI specified "M59" Metal Halide Ballasts.	ED-28	Mog.	27362-2	MH400/U/ED28	M59	12	*G, Clear (372)(377)	5	8¾	12,000	36,000	28,800	65	3700
400 Operate on ANSI Specified "M59" Metal Halide Ballasts.	ED-37	Mog.	34415-0	MH400/U	M59PJ-400/U	6	*G, & St. Lig., Clear (372)(377)	7	11½	20,000 (364)	36,000	28,800	65	3700
			34416-8	MH400/C/U	M59PK-400/U	6	*G, & St. Lig., Phos. Coated (372)(377)	7	11½	20,000 (364)	36,000	27,700	70	3400
			31285-0	MH400/3K/U	M59PK-400/3K/U	6	*G Phos. Coated (372)(377)	7	11½	20,000 (364)	33,000	25,000	70	3200
			30170-5	MS400/BU	M59PJ-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	M59PK-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	M59PK-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	M59PJ-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	M59PK-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)		10¼	15,000	30,000		65	3800
	T-15	Mog. ☐	23127-4	MH400/T15	M59PL-400	12	*G, Clear (372)(377)	5¾	9¾	10,000	36,000	27,700	65	3700
1000 (Enclosed fixtures only) Operate on ANSI specified "M47" Metal Halide Ballasts	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
Operate on ANSI specified "M47" Metal Halide Ballasts.	BT-56	Mog.	29828-5	MH1000/U	M47PA-1000/U	6	*G, & St. Lig. Clear (372)(377)	9½	15¾	12,000	110,000	88,000	65	3700
			29827-3	MH1000/C/U	M47PB-1000/U	6	*G, & St. Lig. Phos. Coated (372)(377)	9½	15¾	12,000	110,000	83,000	70	3400
			25093-6	MS1000/BU	M47PA-1000/BU/S	6	*High Efficiency, Base Up ± 15° Clear (372)(374)(377)	9½	15¾	10,000	125,000	100,000	65	3700

Exclusive Product — POMB-Position Oriented Mogul Base

Since Last Printing

SIDEWALL FAN ACCESSORIES — S





WALL HOUSING DIMENSIONAL DATA

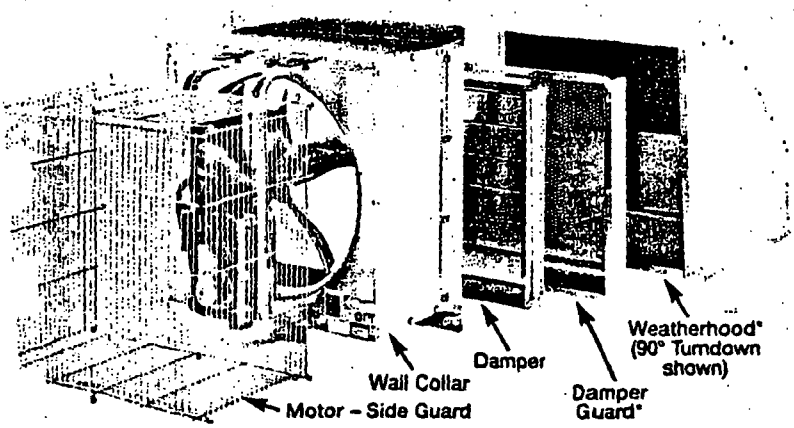
SIZE	WALL HOUSING			DAMPER GUARD		45° WEATHER-HOOD		90° WEATHER-HOOD		DAMPER SIZE SQ.
	A	B	W.O.	C	D	E	F	H	J	
8	13¼	19	14¼	5½	10¼	13¼	11¼	16⅝	12	10
10	15¼	19	16¼	5½	12¼	14⅞	13⅜	18½	14	12
12	18¼	23	19¼	5½	14¼	16⅜	15⅜	20⅜	16⅝	14
14	20¼	23	21¼	6½	16¼	17½	17⅜	22½	18⅜	16
16	22¼	24	23¼	6¾	18¼	19⅜	19⅝	25	20⅝	18
18	24¼	28	25¼	6¾	20¼	22	21⅜	27½	22⅜	20
20	26¼	29	27¼	6¾	22¼	24¾	23⅝	29¾	24⅝	22
24	32¼	36½	33¾	6¾	26¼	26⅞	30⅝	36	31¾	26
30	38¼	38	39¾	6¾	32¼	29⅞	36½	40⅞	37⅞	32
36	44¼	39	45¾	6¾	38¼	33	42½	45½	43⅞	38
42	50⅜	42	51¾	7½	44¼	35¾	48½	49¼	49⅞	44
48	56⅜	44	57¾	7½	50¼	40⅜	54⅜	55½	56	50
54	62⅜	50	63¾	7½	56¼	44⅜	60⅞	61¼	62¼	56
60	68⅜	54	69¾	7½	62¼	48⅜	67	66½	68⅜	62
72	83¼	60	84¾	7½	74¼	53¼	79½	72⅞	80⅞	74

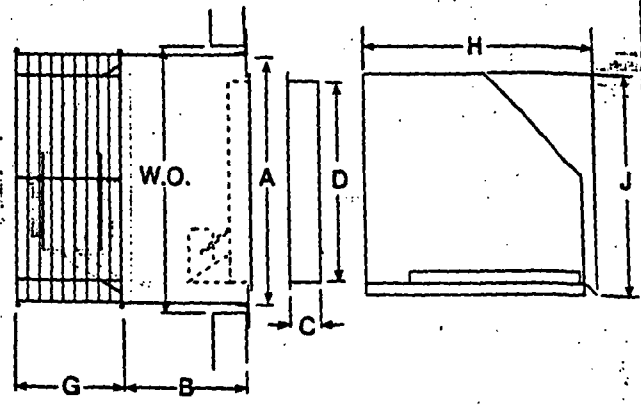
dimensions in inches.

WALL HOUSING & ACCESSORIES

Wall housings are the safest and most efficient platform for mounting of sidewall propeller fans and their optional accessories. Wall housings allow for a wide range of mounting arrangements to meet specific applications, and can be mounted flush inside, flush outside, or centered in wall. Standard construction is of galvanized steel.

*Select only one. Shown together for illustration only.





WALL COLLAR DIMENSIONAL DATA

SIZE	WALL COLLAR			DAMPER GUARD		45° WEATHER-HOOD		90° WEATHER-HOOD		MOTOR-SIDE GUARD	DAMPER SIZE SQ.
	A	B	W.O.	C	D	E	F	H	J	G	
8	12⅞	16⅛	14¼	5½	10¼	13¼	11¼	16⅜	12	9½	10
10	14⅞	16⅛	16¼	5½	12¼	14⅞	13⅜	18½	14	10	12
12	17⅞	16⅛	19¼	5½	14¼	16⅜	15⅜	20⅜	16⅜	11	14
14	19⅞	18⅜	21¼	6½	16¼	17½	17⅜	22½	18⅜	11	16
8	21⅞	18⅜	23¼	6¾	18¼	19⅜	19⅝	25	20⅝	12¼	18
9	23⅞	18⅜	25¼	6¾	20¼	22	21⅜	27½	22⅜	12¼	20
20	25⅞	18⅜	27¼	6¾	22¼	24¾	23⅝	29¾	24⅝	14½	22
2	[illegible]	18⅜	33¾	6¾	26¼	26⅞	30⅝	36	31¾	19	26
	[illegible]	18⅜	39¾	6¾	32¼	29⅞	36½	40⅞	37⅞	22	32
	43⅞	18¾	45¾	6¾	38¼	33	42½	45½	43⅞	23	38
42	49⅞	18¾	51¾	7½	44¼	35¾	48½	49¼	49⅞	25	44
48	55⅞	18⅞	57¾	7½	50¼	40⅜	54⅜	55½	56	28	50
	61⅞	20⅞	63¾	7½	56¼	44¾	60⅞	61¼	62½	29¼	56
	67⅞	21	69¾	7½	62¼	48⅜	67	66½	68⅜	31¼	62
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

WALL COLLAR & ACCESSORIES

Wall collars offer an alternate method for mounting sidewall propeller fans and the optional accessories shown here. Standard construction is of galvanized steel.

*Select only one. Shown together for illustration only.

SBE PERFORMANCE DATA – IN STOCK

Stock Model SBE fans are belt drive exhaust and include steel propellers UL/cUL 705.

Order stock products online at www.greenheck.com/qd

MODEL NUMBER	MOTOR HP	FAN RPM	MAX BHP	F.A. SONES	PERFORMANCE IN INCHES WG											
					0	.1	.125	.15	.2	.25	.3	.375	.5	.625	.75	1
SBE-1L20-LMDX-QD 705-1085 RPM	1/4	705	.17	13.3	3606	2835	2450									
		861	.30	14.3	4404	3794	3671	3455								
	1/3	889	.33	14.9	4547	3949	3830	3654	3067							
		947	.40	16.1	4843	4270	4155	4043	3647							
	1/2	1021	.50	17.0	5222	4675	4566	4461	4180	3746						
		1085	.60	17.9	5549	5021	4918	4816	4620	4269	3711					
SBE-1H20-LMDX-QD 773-1221 RPM	1/4	773	.17	9.8	2904	2452	2292	2112	1595	924	676	304				
		953	.30	16.1	3580	3246	3148	3033	2769	2468	2001	1159	656			
	1/3	998	.33	16.7	3749	3436	3342	3243	3006	2727	2398	1588	873	392		
		1039	.40	17.2	3903	3607	3517	3427	3211	2954	2675	2037	1064	602		
	1/2	1107	.50	18.0	4159	3885	3805	3720	3533	3315	3065	2599	1367	934	501	
		1221	.60	20	4587	4339	4277	4203	4049	3872	3675	3333	2514	1456	1063	
SBE-1L24-LMDX-QD 562-863 RPM	1/4	562	.17	12.3	4673	3577										
		688	.30	12.8	5721	4890	4659	4378								
	1/3	711	.33	13.2	5912	5114	4891	4654								
		759	.41	14.1	6311	5572	5367	5158	4621							
	1/2	811	.50	15.6	6744	6062	5872	5677	5255	4528						
		863	.60	17.4	7176	6545	6367	6187	5820	5345						
SBE-1H24-LMDX-QD 674-1010 RPM	1/4	674	.17	10.0	3524	2893	2679	2416	1615	1155	821					
		785	.30	13.2	4104	3617	3445	3266	2848	2105	1654	1132	443			
	1/3	829	.33	14.8	4334	3877	3734	3568	3219	2595	2006	1445	769			
		877	.42	16.1	4585	4157	4040	3887	3564	3178	2471	1844	1107	491		
	1/2	961	.55	18.5	5024	4641	4534	4428	4145	3846	3484	2574	1700	1103	540	
		1010	.60	19.9	5281	4920	4818	4717	4470	4193	3901	3092	2108	1439	903	
SBE-2L30-LMDX-QD 710-950 RPM	3/4	645	.75	17.2	10672	9766	9507	9190	8446	7562						
		685	.90	18.7	11334	10496	10252	10009	9331	8621						
	1	710	1.00	19.7	11748	10949	10714	10479	9871	9192	8383					
		754	1.20	21	12476	11735	11519	11298	10806	10174	9527					
	1 1/2	812	1.50	24	13436	12748	12569	12364	11953	11425	10837	9892				
		864	1.81	27	14296	13650	13488	13309	12923	12521	11970	11131				
	2	895	2.00	29	14809	14185	14029	13868	13495	13123	12633	11830				
		950	2.41	32	15719	15131	14985	14838	14502	14151	13790	13038	11760			
SBE-2L36-LMDX-QD 518-693 RPM	1	518	1.01	16.1	14943	13482	13043	12604	11568	10083						
		550	1.21	17.6	15867	14525	14112	13699	12872	11681	9933					
	1 1/2	593	1.51	20	17107	15909	15526	15144	14377	13511	12328					
		631	1.81	22	18203	17112	16759	16400	15680	14959	14025	12175				
	2	653	2.01	24	18838	17784	17466	17119	16424	15728	14942	13286				
		693	2.41	27	19992	18998	18743	18416	17761	17105	16449	15153				
SBE-2L42-LMDX-QD 398-611 RPM	1 1/2	456	1.50	21	21250	19152	18531	17809	16577	15188						
		484	1.80	23	22555	20598	20064	19419	18116	17086	15457					
	2	502	2.01	24	23394	21520	21005	20440	19127	18098	16824					
		532	2.40	27	24792	23046	22560	22074	20880	19756	18819	16578				
	3	575	3.01	30	26796	25211	24761	24312	23339	22193	21215	19836				
		611	3.65	31	28473	26984	26585	26162	25315	24279	23200	21952	18526			
SBE-2L48-LMDX-QD 335-513 RPM	1	335	1.00	13.7	21586	18559	17625	16199								
		355	1.12	15.4	22875	20095	19219	18192	14778							
	1 1/2	384	1.50	17.9	24743	22196	21482	20667	18419							
		407	1.80	18.9	26225	23840	23203	22474	20719	17923						
	2	422	2.00	19.6	27192	24904	24289	23638	22154	19746						
		448	2.40	21	28867	26732	26153	25574	24228	22468	19898					
	3	483	3.00	23	31122	29170	28632	28095	26962	25667	23839					
		513	3.60	28	33056	31240	30735	30229	29218	28042	26798	23721				

Performance shown is for Model SBE exhaust without ducts. BHP does not include belt and pulley losses.
Performance shown is for installation type A: Free inlet, Free outlet. Power rating (BHP/kW) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A: free inlet fan sone levels. The AMCA Certified Ratings Seal applies to sone ratings only.

TAFT RECYCLING, INC.
LEACHATE GENERATION ESTIMATE

ASSUMPTIONS: 1) CLASS I TIPPING AREA = 45' X 60'
DAILY WASH AREA = 2700 sf.
WATER WASH = 0.05 GALLONS / sf. X 2700 sf. = 135 GAL/DAY

∴ 135 GAL/DAY X 30 DAYS/MONTH
= 4050 GAL/MONTH

CLASS III AREA - SWEEP - NO WATER USE.

ABOVEGROUND LEACHATE STORAGE TANK = 5000 GAL. CAPACITY

∴ STORAGE SYSTEM HAS 1.2 MONTH CAPACITY

9/22/04

HSA Golden
Environmental & Engineering Consultants
225 East Robinson Street
Suite 100
Orlando, Florida
32801
Tel: 407.649-5475
Fax: 407.649-6582

PROJECT NO.: 04-297.001
DATE: 9/22/04
BY:

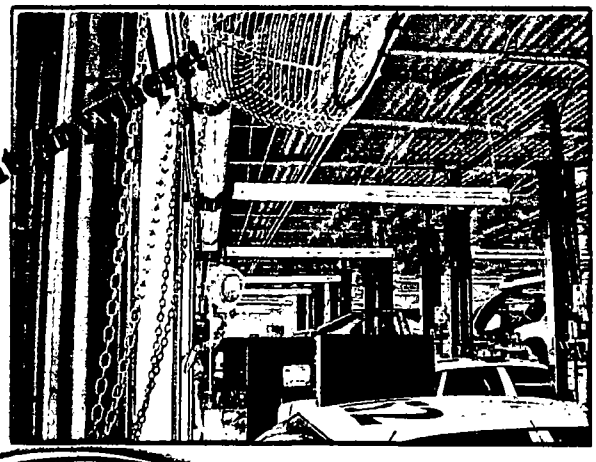
CALCULATION SHEET
APPENDIX H
SHEET 1 OF 1

High Pressure Pumps

Uni-Chill

The Only Pump Solely Designed & Engineered For Misting Applications!

The Miracle of Mist is made possible because of our unmatched high pressure pumps. With an output of 1,000 PSI, these pumps make it possible for water molecules to be atomized in order to achieve 'FLASH EVAPORATION" within a few feet of the nozzle. The outcome, unmatched cooling and comfort!



Use I

Police Department Automotive Garage

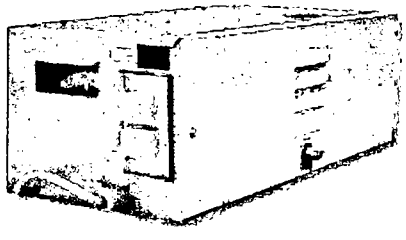
Pump Specs & Features

GPM: .43
Output PSI: 1000
Input PSI: 15-60
Voltage: 110/220
Amps: 3.4/2.0
Cycle: 50 or 60 cycle
Thermal Overload Protected
Small, Lite Weight & Compact
Whisper Quiet Running
Vertical or Horizontal Mountings
Weather Resistant Enclosure
Glycerin Filled Pressure Gauge
Low Pressure Safety Switch
Dual Electrical Outlets
Solenoid Valve

Specifications

-Up to 1000 PSI
-Totally enclosed stainless steel enclosure
-Weather Resistant
-Low RPM
-Low noise level
-Liquid filled pressure gauge
-Solenoid Valve
-On/Off switch
-Heavy Duty Triplex ceramic plunger pump
-Adjustable pressure
-Unloader Valve
-8' power cord
-Dual electrical outlets
-Pumps available in 1,2, & 3 GPM

Industrial High Pressure Pumps



Industrial Pump
1, 2 & 3 GPMC

2 Year Warranty

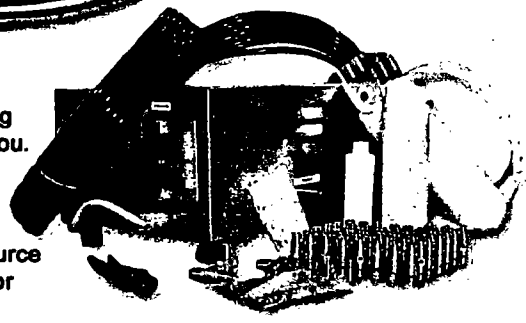
What pump size do I need?

To determine pump size refer to nozzle flow chart on Nozzle page, or contact People Misters International Technical Support Staff for further details. Whether the job calls for 10 or 1,000 nozzles, we can help!

1-877-2-MIST-IT www.PeopleMisters.com

Satisfaction guaranteed. Two Year Limited Warranty. Specifications and prices subject to change without notice.

High Pressure Misting Systems



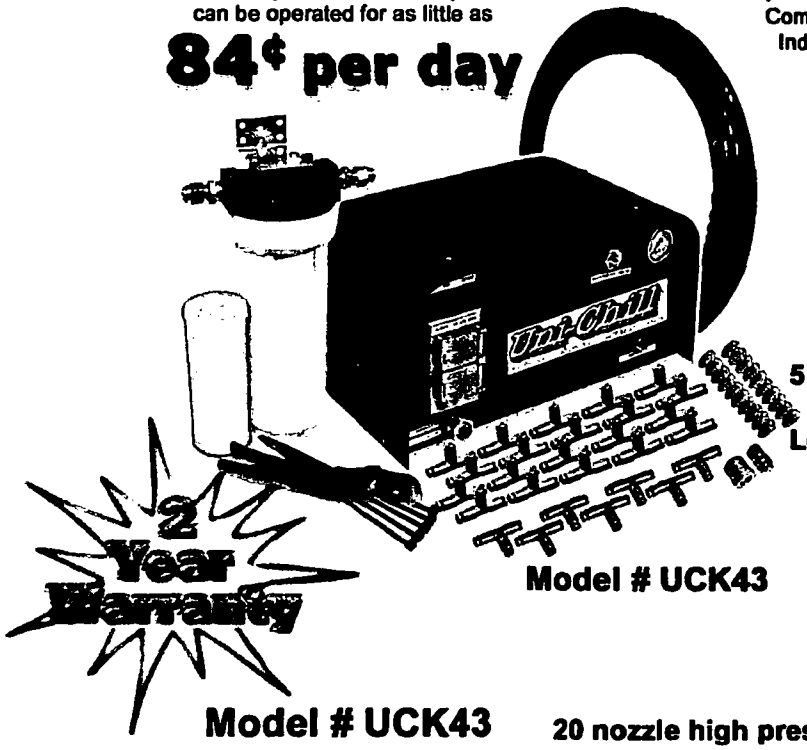
For a high pressure mist system of up to 1000 PSI, People Misters offers heavy duty kits of 20, 50, 100, and 150 nozzles. Custom kits are also available, if your cooling needs require 5 to 500 nozzles, we have the system for you. Complete installation instructions are included with the "Do it yourself" person in mind. Our kits utilize patented Slip-Lok fittings and semi-rigid nylon tubing. No previous misting experience is required, all you need is a water source and a power outlet. Contact our Technical Support Staff for additional information.

Operating Costs?

(Water and Electric)

On average* our Uni-Chill system can be operated for as little as

84¢ per day



Model # UCK43

Features

Each kit includes the appropriate quantities & sizes of items

Commercial kit includes 1/8" system.
Industrial kit includes 3/8" system.

- Industrial Cat Pump
- High Pressure Tubing
- Slip-Lok 3-way Tees
- Slip-Lok Nozzle Tees
- .008/2mm Nozzles
- Anti-Drip Adapters
- Nozzle Plugs
- Nylon Hose Clamps
- Nylon Zip Ties
- 5 Micron Filter & Housing
- End Plug
- Lead Line (10' tan tubing)
- Tubing Cutter
- Nozzle Cleaner
- Solenoid Valve
- Instruction Pamphlet
- Warranty Card

Model # UCK43	20 nozzle high pressure mist kit
Model # MK501	50 nozzle high pressure mist kit
Model # MK1002	100 nozzle high pressure mist kit
Model # MK1503	150 nozzle high pressure mist kit

* Based on electric and water rates in the Lakeland, FL area.

1-877-2-MIST-IT www.PeopleMisters.com

Satisfaction guaranteed. Two Year Limited Warranty. Specifications and prices subject to change without notice.

100 Nozzle Industrial Mist Kit
Model #MK1002
(Professional High Pressure Mist System)

Kit includes the following items:

	Model #	Quantity	Item Description
	2GPMC	1	Industrial Pump (2GPM)
	10010	4	Roll/High Pressure Tubing (100 ft.)
	310	75	Nylon Clamps (3/8")
	720	3	Slip-Lok 3-Way T
	700	102	Slip-Lok Nozzle T
	1008	100	Nozzle (.2mm)(.008)
	3020	1	Filter & Housing w/*Bracket* (1 micron)
	760	3	End Plug
	1040	2	Auto Drain Valve
	301	1	Tubing Cutter
	TS 3002	1	Hose Adapter (Female Swivel) - 3/8 Male
	TS 3004	1	Hose Adapter (Male) – 3/8 Male
	TS 3020	1	6' Garden Hose

*Also includes easy to follow instructions & warranty card *

Packaged by _____ Date _____

Commercial * Residential * Industrial * Agricultural

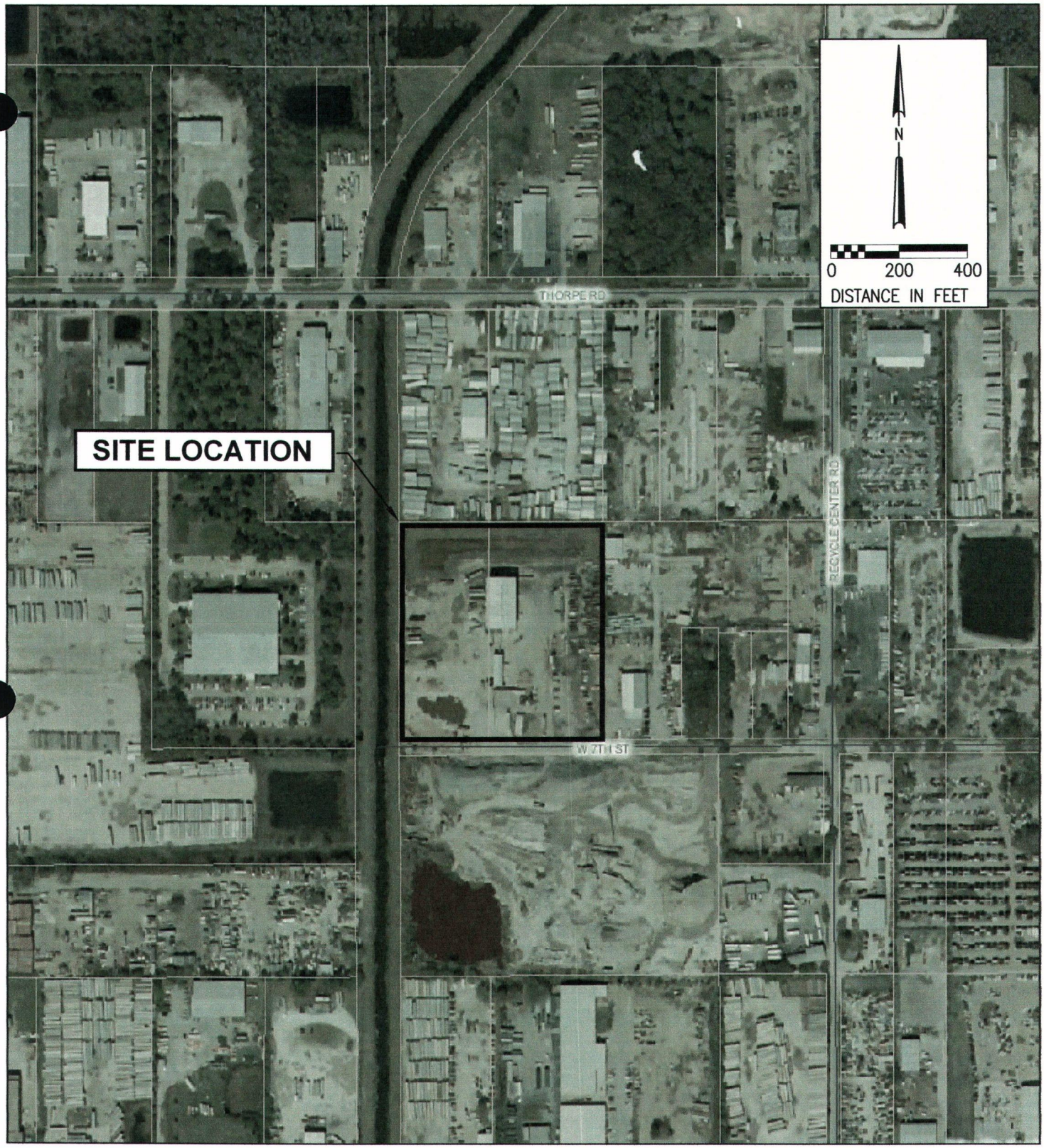
www.peoplemisters.com

People Misters International
4255 N. Frontage Road, Lakeland, FL 33810
Phone (863) 686-4558 Fax (863) 686-4668 www.peoplemisters.com

Fax:3216319117 DEC 14 2005 15:21 P.02

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
225 East Robinson Street
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

ATTACHMENT E

FINANCIAL ASSURANCE

OPINION OF PROBABLE CLOSURE COSTS — TAFT RECYCLING, INC. — DECEMBER 2005

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 I Waste	1,200	400	240	2.60	3,120.00	39	235.00	9,165.00	30.65	7,356.00	19,641.00
Unprocessed Class III	700	630	221	2.60	1,820.00	39	235.00	9,165.00	17.20	3,792.60	14,777.60
Yard Trash	200	400	40	2.60	520.00	12	235.00	2,820.00	28.35	1,134.00	4,474.00
Recovered Concrete	200	2,596	259.6	1.58	316.00	12	235.00	2,820.00	0.00	0.00	3,136.00
Asphaltic Concrete	200	2,596	259.6	1.58	316.00	12	235.00	2,820.00	0.00	0.00	3,136.00
Roofing Tiles	200	2,000	200	2.09	418.00	12	235.00	2,820.00	17.20	3,440.00	6,678.00
Recovered Cardboard	60	350	10.5	1.58	94.80	5	235.00	1,175.00	17.20	180.60	1,450.40
Paper	60	400	12	2.09	125.40	5	235.00	1,175.00	17.20	206.40	1,506.80
Glass	60	600	18	2.09	125.40	4	235.00	940.00	17.20	309.60	1,375.00
Ferrous Metals	60	550	16.5	1.58	94.80	4	235.00	940.00	17.20	283.80	1,318.60
Aluminum	60	300	9	1.58	94.80	4	235.00	940.00	17.20	154.80	1,189.60
Plastic	60	150	4.5	2.09	125.40	5	235.00	1,175.00	17.20	77.40	1,377.80
Recovered Wood & Mulch	1,000	1,000	500	1.33	1,330.00	56	235.00	13,160.00	17.20	8,600.00	23,090.00
Tires	30	400	6	2.09	62.70	2	235.00	470.00	99.00	594.00	1,126.70
Class I Reject	700	400	140	2.60	1,820.00	39	235.00	9,165.00	30.65	4,291.00	15,276.00
RSM	100	1,000	50	0.56	56.00	6	235.00	1,410.00	17.20	860.00	2,326.00
Hazardous Materials*	55-Gal Drum			None		1	235.00	235.00	300.00	300.00	535.00
Sampling / Analysis*											1,500.00
Total											**103,914.50**
Contingency (15%)											**15,587.18**
Grand Total											**119,501.68**

*Actual costs based on 2004-2005 operating year adjusted for inflation (1.020 multiplier as per FDEP).
**Assumes waste other than concrete to be disposed at Orange County Class I ($30.65/ton) and 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

James T. Show, P.E.
Florida Registration #34361
12/15/05

JAMES TODD SHOW LICENSED STATE OF FLORIDA PROFESSIONAL ENGINEER

Solid Waste Division

Overview

The Solid Waste Division is responsible for providing efficient and effective solid waste management services in Orange County. With over 2,500 tons of waste received daily, Orange County operates the largest publicly owned and operated landfill in Florida. In addition to the 5,000 acre landfill, the Solid Waste Division also operates household hazardous waste facilities and two solid waste transfer stations. The division is responsible for managing the residential garbage, yard waste and recycling collection program for single-family homes in unincorporated Orange County.

Events / Notices

- 2005: Holiday Collection Schedule
- Telephone Book Recycling (MS Word)

Locations, Hours of Operation

Orange County Landfill
5901 Young Pine Road

Landfill - Hours of Operation

- Non-Account Customers:
  Monday-Sunday 8:00 a.m. - 5:00 p.m.
- Account Customers:
  Monday 4:00 a.m. - 7:00 p.m.
  Tuesday 4:00 a.m. - 7:00 p.m.
  Wednesday 4:00 a.m. - 6:00 p.m.
  Thursday 4:00 a.m. - 6:00 p.m.
  Friday 4:00 a.m. - 6:00 p.m.
  Saturday 6:30 a.m. - 5:00 p.m.
  Sunday 8:00 a.m. - 5:00 p.m.
- Holiday Schedule
  Christmas Day - Closed

Porter Transfer Station
8750 White Road

McLeod Road Transfer Station
5000 L.B. McLeod Road

Transfer Stations - Hours of Operation

- Non-Account Customers:
  Monday-Sunday 8:00 a.m. - 5:00 p.m.
- Account Customers:
  Monday-Sunday 8:00 a.m. - 5:00 p.m.
- Holiday Schedule
  Orange County Official Holidays - Closed

Contact Numbers and Email

Orange County Landfill
(407) 836-6600

Porter Transfer Station
(407) 296-5198

McLeod Road Transfer Station

(407) 245-0931

Solid Waste Hotline
(407) 836-6601

Solid Waste Email Address
Solid.Waste@ocfl.net (When sending email, please include your name, property address and daytime phone number.)

Para más información, por favor llame al Departamento de Utilidades del Condado de Orange y pida hablar con un representante en español. El número de teléfono es 407-836-6601.

Frequently Asked Questions

Q. Where Can I Find My Garbage, Recycling And Yard Waste Collection Days?
A. Residents in unincorporated Orange County may call the Solid Waste Hotline at (407) 836-6601 or access collection days and hauler information online.

Q. What Containers Can I Use For Garbage?
A. Garbage cans must be 50 gallons or less, be waterproof, have a tight-fitting lid, handles on the sides and weigh less than 60 pounds when full. Plastic bags must be 50 gallons or less and weigh less than 60 pounds when full.

Q. What Time Should I Place Out My Containers?
A. Garbage, yard waste and recycling containers may be placed at the curb after 6:00 p.m. the night before but no later than 6:00 a.m. on your collection day. Remove emptied containers from the curb within 12 hours after pickup.

Q. What Is The Holiday Collection Schedule?
A. There is no garbage, recycling or yard waste collection on:

- Memorial Day
- Independence Day (4th of July)
- Labor Day
- Thanksgiving
- Christmas

There is no garbage collection on New Year's Day, however recycling and yard waste will be collected if New Year's Day is your normal collection day.

Q. How Can I Get Recycling Bins?
A. Recycling bins are provided free of charge to our single family home residents in unincorporated Orange County. Simply call the Solid Waste Hotline at (407) 836-6601 to order bins. The bins will be delivered by the contract hauler in five to seven business days.

Q. What Goes In The Orange Recycling Bin?

- Newspaper
- Magazines

- Brown paper grocery bags
- Corrugated cardboard (flattened & cut down to no larger than 3 ft. by 3 ft.)
- Catalogs
- Telephone books (between November and February).

Q. What Goes In The Green Recycling Bin?

- Aluminum and tin cans
- Glass bottles and jars
- All drink boxes and milk/juice cartons
- All plastic containers with the #1-PETE or #2-HDPE symbol on the bottom.

Q. Is Recycling Mandatory?
A. Yes, it is mandated by Orange County Code. It is also a violation to remove recyclables from bins that have been placed at the curb. However, residents may participate in private, school or church-based recycling efforts.

Q. What Should I Do If My Recycle Bins Get Full?
A. Place your overflow recyclable materials in brown paper grocery bags and place them beside your recycle bins at the curb.

Q. When Is Yard Waste Collected?
A. Yard waste collection is provided every Wednesday. To ensure collection, place yard waste at the curb after 6:00 p.m. the night before and no later than 6:00 a.m. on Wednesday.

Q. How Much Yard Waste Is Collected Each Week?
A. Yard waste collection service is limited to 3 cubic yards per household per week, which is equal to about one small pickup truckload.

Q. How Should Limbs, Palm Fronds And Other Materials Like These Be Set Out For Collection?
A. Limbs and palm fronds should be bundled with string or twine, be no longer than 3 feet in length and bundles should weigh less than 60 pounds each. The limbs and palm fronds can also be cut down and placed in plastic bags or cans which must weigh less than 60 pounds when full.

Q. Is There Compost Available For Residents?
A. Yes. Residents may take up to one pickup truckload of Orange County compost free at the Orange County Landfill or transfer stations, any day of the week between 8 a.m. and 5 p.m. You must provide your own shovel and containers. Please call the Solid Waste Hotline or transfer station to confirm availability.

Q. How Often Are Bulky Items Collected?
A. Collection for items such as furniture, appliances and mattresses is once per week on your second regular garbage collection day. Air conditioners, freezers and refrigerators are examples of freon containing devices and are not included in your curbside collection program unless they have a receipt from a licensed profession which shows the item no longer contains freon. Bulky item collection is limited to 3 cubic yards per week, equivalent to a small pick up truckload. There is no bulky item pick

up during the week of a scheduled holiday. For more on bulky and freon containing items, contact the Solid Waste Hotline at (407) 836-6601.

Q. How Do I Pay For My Curbside Collection?
A. New homes are billed directly by the Orange County Utilities Department, until the assessment for service is placed on the Property Tax Bill. This assessment pays for service for the upcoming year (January 1 - December 31).

Q. Who Do I Call For Billing Information?
A. If you have questions about your new residence bill, please call (407) 836-5515.

Q. Who Do I Contact If I Have Problems With My Service?
A. For curbside collection issues call our Solid Waste Hotline at (407) 836-6601.

Q. How Do I Dispose Of Household Hazardous Waste?
A. Hazardous waste includes items such as paint, thinners and varnish, batteries, used motor oil, antifreeze and brake fluid, household cleaning fluids, pool chemicals and propane tanks up to 100 pounds. These items are not collected in the curbside program. You may bring these items to the Orange County Landfill, Monday through Saturday, between 8 a.m. and 5 p.m., or to the McLeod Road Transfer Station, Wednesdays and Saturdays between 8 a.m. and 5 p.m. Drop off is free of charge for our residents, and an attendant is present at both facilities at the above times to assist with unloading.

Q. What Are The Disposal Fees At The Landfill And Transfer Stations?
A. Disposal fees vary according to the type of material, and the minimum charge for any load is $5.25.

Disposal fees:

- Residential Garbage - $30.65/ton
- Commercial Garbage - $32.95/ton
- Construction & Demolition Debris - $17.20/ton
- Tires
  - $99.00/ton
  - $1.00/tire for up to 10 passenger vehicle tires
- Yard Waste - $28.35/ton

Payment can be made in cash, checks and all major credit cards.

Q. How Can I Obtain A Large Dumpster For My Residence Or Business?
A. Orange County does not provide dumpsters or roll-off containers. For service providers, please check the yellow pages under garbage collection or rubbish removal.

Q. Do You Service Mobile Home Parks Or Apartments?
A. Mobile homes parks, apartment complexes and most condominium complexes are not included in the system. These are commercial customers and will have separate contracts with hauling companies for

garbage disposal and recycling. Contact your apartment or park manager for more information.

Q. I Live In The City Of Orlando. Do You Provide My Garbage Service Or Recycling Bins?
A. Residents of other municipalities should contact their city's solid waste or utilities department for questions and concerns regarding their garbage.

Q. Who Do I Contact If I Have Additional Questions?
A. Call the Solid Waste Hotline at 407-836-6601.

Information Links

- Human resources
- Contract bid opportunities
- Publications and notices

Publications

The Recycler - Fall 2005 Edition (PDF)

Solid Waste Financial Responsibility

To minimize the threat to public health and the environment, Solid Waste Financial Responsibility requirements were adopted in 1984 to secure the proper closing of solid waste management facilities operating in the state of Florida. When demonstrating proof of financial responsibility, owners or operators can choose from a list of approved financial mechanisms that best meet their individual needs. The dollar amount of financial assurance required is directly tied to the current department approved closure cost estimate. Our primarily responsibility is full compliance with all solid waste financial assurance requirements. This is accomplished by providing any assistance necessary to facility owners and operators as well as provider companies attempting to meet rule requirements.

***Current Year Inflation Factor: 1.020**

For information requests or document submittal, please contact:

Solid Waste Financial Coordinator
Department of Environmental Protection
2600 Blair Stone Road MS 4565
Tallahassee, Florida 32399-2400
(850) 245-8732 FAX (850) 245-8811

Last updated: April 19, 2005

Bureau of Solid & Hazardous Waste #850-245-8707 MS #4550
Division of Waste Management #850-245-8705 MS #4500
2600 Blair Stone Road, Tallahassee, Florida 32399-2400

This bond replaces previous Carolina Casualty Insurance Company bond number 079138.

DEP Form 8 62-701.900(5)(b)
Form Title 2000 Fed. Financial Guarantee Bond
Effective Date
DEP Application No.

STATE OF FLORIDA
SOLID WASTE MANAGEMENT FACILITY FINANCIAL GUARANTEE BOND TO DEMONSTRATE FINANCIAL ASSURANCE
FOR

☒ Closing ☐ Long-Term Care ☐ Corrective Action
(Check appropriate Box(es))

The term "Required Action" as used in this document means closing, long-term care, or corrective action, or any combination of these, which is checked above.

Date bond executed: NOVEMBER 11, 2004

Effective date: NOVEMBER 11, 2004

Principal: TAFT RECYCLING, INC.

1099 MILLER DRIVE; ALTAMONTE SPRINGS, FL 32701

Legal Name and Business Address of Owner or Operator

Type of Organization: ☐ Individual ☐ Joint Venture ☐ Partnership ☒ Corporation
Check One

State of Incorporation: Florida

Surety(ies): CAROLINA CASUALTY INSURANCE COMPANY

2850 W. GOLF ROAD, SUITE 800

ROLLING MEADOWS, IL 60008

Name(s) and Business Address(es)

List for each facility: FDEP Identification Number, name, and address. Indicate "Required Action" amounts for each facility separately.

FDEP I.D. No.	Name	Address	Required Action Amount
	S. Orlando T.S. Taft Recycling, Inc.	375 - 7th Street Taft, FL 32824	89,110.12

Total penal sum of bond: $ 89,110.12

Surety's bond number: 097944

Bond premium: $ 891 annually

Know All Persons By These Presents, That we, the Principal and Surety(ies) hereto are firmly bound to the Florida Department of Environmental Protection (hereinafter called FDEP), in the above penal sum for the payment of which we bind ourselves, our heirs, executors, administrators, successors, and assigns jointly and severally; provided that, where the Sureties are corporations acting as co-sureties, we, the Sureties, bind ourselves in such sum "jointly and severally" only for the purpose of allowing a joint action or actions against any or all of us, and for all other purposes each Surety binds itself, jointly and severally with the Principal, for the payment of such sum only as is set forth opposite the name of such Surety, but if no limit of liability is indicated, the limit of liability shall be full amount of the penal sum.

WHEREAS, said Principal is required, under the Florida Solid Waste Management Act as amended, to have a permit in order to construct, operate or close each solid waste management facility identified above, and

WHEREAS, said Principal is required to provide financial assurance for the "Required Action," as a condition of the permit(s), and

WHEREAS, said principal shall establish a standby trust fund as is required when a surety bond is used to provide such financial assurance;

NOW, THEREFORE, the conditions of the obligation are such that if the Principal shall faithfully, before the beginning of final closure of each facility identified above, fund the standby trust fund in the amount(s) identified above for the facility,

Or, if the Principal shall fund the standby trust fund in such amount(s) within 15 days after an order to begin closure is issued by the Secretary of the FDEP, or the Secretary's designee (the "designee"), or a U.S. district court or other court of competent jurisdiction,

Or, if the Principal shall provide alternate financial assurance and obtain the FDEP Secretary's, or designee's, written approval of such assurance, within 90 days after the date of notice of cancellation is received by both the Principal and the FDEP Secretary, or designee, from the Surety(ies), then this obligation shall be null and void, otherwise it is to remain in full force and effect.

The Surety(ies) shall become liable on this bond obligation only when the Principal has failed to fulfill the conditions described above. Upon notification by the FDEP Secretary, or designee, that the Principal has failed to perform as guaranteed by this bond, the Surety(ies) shall place funds in the amount guaranteed for the facility(ies) into the standby trust fund as directed by the FDEP Secretary, or designee.

The liability of the Surety(ies) shall not be discharged by any payment or succession of payments hereunder, unless and until such payment or payments shall amount in the aggregate to the penal sum of the bond, but in no event shall the obligation of the Surety(ies) hereunder exceed the amount of said penal sum.

The Surety(ies) may cancel the bond by sending notice of cancellation by certified mail to the Principal and to the Secretary of the FDEP, or designee; however, cancellation shall not occur during the 120 days beginning on the date of receipt of the notice of cancellation by both the Principal and the FDEP Secretary, or designee, as evidenced by the return receipts.

The Principal may terminate this bond by sending written notice to the Surety(ies); provided, however, that no such notice shall become effective until the Surety(ies) receive(s) written authorization for termination of the bond by the Secretary of the FDEP, or designee.

Principal and Surety(ies) hereby agree to adjust the penal sum of the bond yearly so that it guarantees a new "Required Action" amount, provided that the penal sum does not increase by more than 20 percent in any one year, and no decrease in the penal sum takes place without the written permission of the FDEP Secretary, or designee.

IN WITNESS WHEREOF, the Principal and Surety(ies) have executed this Financial Guarantee Bond and have affixed their seals on the date set forth above.

The persons whose signatures appear below hereby certify that they are authorized to execute this surety bond on behalf of the Principal and Surety(ies), and that the wording of this surety bond is identical to the wording as adopted and incorporated by reference in Rule 62-701.900, F.A.C.

PRINCIPAL

Signature

Frank Ward Jr. V-P

Type Name and Title

312-942-0042

Telephone Number

Corporate Seal

CORPORATE SURETY(IES)

For each co-surety provide the following

CAROLINA CASUALTY INSURANCE COMPANY

Name and Address

2850 W. GOLF ROAD; ROLLING MEADOWS, IL

FLORIDA

State of Incorporation

589.110.12.

Liability Limit

Signature

KRISTAN F. RETUSNIC, ATTORNEY-IN-FACT

Type Name and Title

708-845-3310

Telephone Number

Corporate Seal

State of Illinois
County of Cook

On this 11TH day of NOVEMBER 20 04, before me personally appeared KRISTAN F. RETUSNIC, known to me to be the Attorney-in-fact of CAROLINA CASUALTY INSURANCE COMPANY, the corporation that executed the within instrument, and acknowledged to me that such corporation executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, at my office in the aforesaid county, the day and year in this certificate first above written.

"OFFICIAL SEAL"
JENNIFER L. CASTRO
Notary Public, State of Illinois
My Commission Expires 03/01/2008

(Notary Public)

POWER OF ATTORNEY
CAROLINA CASUALTY INSURANCE COMPANY
JACKSONVILLE, FLORIDA

No. 177

KNOW ALL MEN BY THESE PRESENTS: that CAROLINA CASUALTY INSURANCE COMPANY ("Company") a corporation duly organized and existing under the laws of the State of Florida, having its principal office in Jacksonville, Florida, has made, constituted and appointed, and does by these presents make, constitute and appoint: John J. Naso, Jr. or Frank Q. Poppie or Kristan P. Renusnic or Ila J. Delman of Horton Insurance Agency, Inc. of Orland Park, IL

its true and lawful Agent and Attorney-in-Fact, with the power and authority hereby conferred in its name, place and stead, to execute, seal, acknowledge and deliver: any and all bonds and undertakings providing that no single obligation shall exceed Fifteen Million and 00/100 Dollars ($15,000,000.00)

and to bind the Company thereby as fully and to the same extent as if such bonds had been duly executed and acknowledged by the regularly elected officers of the Company at its principal office in their own proper persons.

This Power of Attorney is granted pursuant to the Minutes of the Special Meeting of the Board of Directors of Carolina Casualty Insurance Company held on March 30, 1966, to wit:

> RESOLVED: "That the following Officers of the Carolina Casualty Insurance Company, Chairman of the Board, President, Secretary and Treasurer, or either of them, are hereby authorized to execute on behalf of Carolina Casualty Insurance Company, Powers of Attorney authorizing and qualifying the Attorney-in-Fact named therein to execute bonds on behalf of the Carolina Casualty Insurance Company, and further, that the said Officers of the Company mentioned, are hereby authorized to affix the corporate seal of the said Company to Powers of Attorney executed pursuant hereto".

RESOLVED FURTHER, this Power of Attorney limits the acts of those named therein to the bonds and undertakings specifically named therein, and they have no authority to bind the company except in the manner and to the extent therein stated.

RESOLVED FURTHER, this Power of Attorney revokes all previous powers issued in behalf of the Attorney-in-Fact named above.

RESOLVED FURTHER, that the signature of any authorized officer and the seal of the Company may be affixed by facsimile to any power of attorney or certification thereof authorizing the execution and delivery of any bond, undertaking, recognizance, or other suretyship obligations of the Company; and such signature and seal when so used shall have the same force and effect as though manually affixed. The Company may continue to use for the purposes herein stated the facsimile signature of any person or persons who shall have been such officer or officers of the Company, notwithstanding the fact that they may have ceased to be such at the time when such instruments shall be issued.

IN WITNESS WHEREOF the Carolina Casualty Insurance Company has caused these presents to be signed and attested by its appropriate officers and its corporate seal hereunto affixed this 17th day of March, 2004.

Attest:
By: Betty C. Sutherland
Vice President and Secretary

Carolina Casualty Insurance Company
By: Armin W. Blumberg
President and Chief Executive Officer

WARNING: THIS POWER OF ATTORNEY INVALID IF NOT PRINTED ON GREEN "MONITOR" SECURITY PAPER.

STATE OF FLORIDA)
ss
COUNTY OF DUVAL)

On this 17th day of March, 2004, before me personally came Betty C. Sutherland to me known, who, being by me duly sworn, did depose and say: that she is Secretary of Carolina Casualty Insurance Company, the Corporation described in and which executed the above instrument; and that he/she knows the seal of said Corporation; that the seal affixed to the said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said Corporation and that he/she signed his/her name thereto by like order.

IN WITNESS WHEREOF, I have hereunto set my hand ad affixed my official seal; the day and year herein first above written.

OFFICIAL NOTARY SEAL
PATSY W CARMICHAEL
COMMISSION NUMBER
DD152087
MY COMMISSION EXPIRES
SEPT 23, 2008
NOTARY PUBLIC STATE OF FLORIDA

Patsy W. Carmichael
Notary Public, State of Florida at Large

CERTIFICATE

I, the undersigned, Secretary of CAROLINA CASUALTY INSURANCE COMPANY, DO HEREBY CERTIFY that the foregoing is a just, true, correct and complete copy of original Power of Attorney; that the said Power of Attorney has not been revoked or rescinded and that the authority of the Attorney-in-Fact set forth therein, who executed the bond to which this Power of Attorney is attached, is in full force and effect as of this date.

Given under my hand and the seal of the Company, this 11TH day of NOVEMBER, 2004

Betty C. Sutherland, Secretary

ATTACHMENT F

GEOTECHNICAL REPORT

YOVAISH ENGINEERING SCIENCES, INC.

Consulting Engineers in the Earth Sciences, Geotechnology, Hydrogeology and Construction Materials Testing

August 19, 2004

HSA Golden, Inc.
225 East Robinson Street, Suite 100
Orlando, Florida 32801

Attention: Mr. James Golden, P.G.

Subject: **Subsurface Soil and Groundwater Level Investigation, Proposed Expansion, The South Orlando Waste Processing Facility, Orlando, Florida (PN 04-E1256.01)**

Dear Mr. Golden:

As requested, Yovaish Engineering Sciences, Inc. has completed a subsurface soil and groundwater level investigation at the site referenced above. The following report presents the results of our field and laboratory investigations and provides our geotechnical engineering evaluations of the same with respect to the proposed building expansion.

1.0 SITE AND DEVELOPMENT DESCRIPTION

The subject tract is rectangular in shape and comprises approximately 8.9± acres located within Section 2, Township 24 South, Range 29 East in Orange County, Florida. Preliminary plans indicate that the proposed construction will consist of a single story building with attendant stormwater management and pavement areas. Based upon review of topographic information provided to us, ground elevations within the site are relatively flat and generally vary from +96 to +98 feet NGVD. The approximate site configuration, existing improvements and proposed building addition and pond expansion are presented on Figure 1, attached.

A review of black and white aerial photographs of the site and vicinity indicate that the site was excavated and backfilled numerous times over the past 40 to 50 years. The approximate limits of the former pond areas are depicted on the historic aerials in Appendix A. The former pond and excavation areas have since been in-filled. Documentation for the materials and/or construction methods utilized to in-fill the former pond areas were not available to us.

953 Sunshine Lane • Altamonte Springs, FL 32714
Phone: 407-774-9383 Fax: 774-7438

2.0 FIELD INVESTIGATION

In order to provide input to our evaluations, we performed two (2) Standard Penetration Test borings and three (3) auger borings to depths varying from approximately 10 to 33 feet below the existing ground surface. The SPT borings were performed using truck-mounted rotary-wash drilling equipment. The soils were sampled at frequent intervals with a split-barrel sampler driven by a 140-pound hammer, falling 30 inches, in general accordance with ASTM D-1586 testing procedures. The approximate location of each boring is presented on the Location Plan on Figure 1 and labeled as RB-1 through RB-3, TB-1, and TB-2.

3.0 SUBSOIL AND GROUNDWATER LEVEL CONDITIONS

3.1 Soil Stratigraphy

3.1.1 Auger Boring Results: The subsoil conditions encountered at our boring locations are highly variable. The auger borings encountered mixed dark gray fine sand with debris to depths varying from 6 to 20 feet below the existing ground surface. The debris encountered consisted of wood, rocks, concrete, plastic and fiberglass. The surficial layer was followed by dark gray organic fine sand with pieces of wood, rocks, and similar debris, ranging from approximately 8.5 to 13.5 feet in thickness (total depths varying from approximately 14.0 to 33+ feet). Boring RB-1 terminated in the organic fine sand and debris (Stratum 2). Borings RB-2 and RB-3 continued to their termination depths in a light-colored fine sand. A more detailed representation of the soil stratigraphy encountered is presented as Soil Profiles on Figure 2, attached. The borings are plotted on an elevation basis as interpreted from site topographic information provided to us.

3.1.2 Standard Penetration Test Results: The SPT borings encountered organic fine sand with debris to a depth of approximately 6 feet in Boring TB-1 and to the boring termination depth of 10 feet in Boring TB-2. Boring TB-1 continued with a layer of mixed dark gray fine sand with debris approximately 18 feet in thickness followed by 6 feet of light-colored fine sand. A more detailed representation of the soil stratigraphy encountered is presented as Soil Profiles on Figure 2, attached. The borings are plotted on an elevation basis as interpreted from site topographic information provided to us.

Based upon our evaluation of the Standard Penetration Testing Procedures, the encountered debris and fill soils generally exist in a loose condition. The underlying subsoils typically exist in a medium dense condition. However, a very loose zone was encountered in TB-1 at a depth of approximately 25 feet. The penetration test results, in the form of blow-counts per foot, are included adjacent to the Soil Profiles on Figure 2.

3.2 Groundwater Table Conditions

3.2.1 Measured Groundwater Levels: The depth to the shallow groundwater table was measured by installing piezometers in the open auger bore holes at the time the borings were performed and recorded again at least 24 hours later. The groundwater level was encountered at depths varying from approximately 8.5 to 9.5 feet below the existing ground surface. The relatively deep groundwater levels are, in our opinion, the results of drawdown by the Boggy Creek Canal along the western boundary (reported Normal High Level at +84.1 feet). The groundwater levels are plotted adjacent to the Soil Profiles on Figure 2 at the corresponding depth.

3.2.2 Normal Seasonal High Groundwater Levels: To evaluate the normal seasonal groundwater fluctuations on the site, a review was made of the following: USDA - SCS Soil Survey maps for the site, site aerial photography, the soil stratigraphy encountered during this study, site topographic information, and the antecedent rainfall conditions prior to the time the groundwater levels were measured. Based on the information discussed above, it is our preliminary opinion that the seasonal high groundwater level will occur approximately 2.5 feet above the measured groundwater levels. The estimated seasonal high groundwater levels are plotted adjacent to the Soil Profiles on Figure 2.

4.0 PRELIMINARY EVALUATIONS AND CONCLUSIONS

4.1 Foundation Alternatives

4.1.1 Shallow Foundations: Based upon our evaluation, the subsurface soil conditions within the site are not suitable for support of the proposed construction on shallow foundations using normal construction procedures. In general, the site preparation will be above normal and shall include the removal of the organic soil and buried debris in their entirety (Strata 1 and 2). We recommend that test pits be performed by your site contractor prior to construction in order to further delineate the depth, composition and horizontal extent of the buried organic soil and debris. A representative of Yovaish Engineering Sciences, Inc. should be present to record and log the test pits. It should be noted that it is our opinion that significant shoring (to protect and support the existing construction) and dewatering (to lower the groundwater table) would be required for proper excavation, removal, backfilling and compaction, for this alternative.

4.1.2 Prestressed Precast Concrete (PPC) Piles: It should be noted that removal of the organic soil and debris in their entirety may not be technically nor economically feasible. Alternatively, the structure may be supported on a pile supported foundation system. A structural slab system with internal grade beams would also be required for this alternative. Based upon our experience with similar soils conditions, it is our preliminary opinion that 14-inch square precast concrete piles driven to a depth of ranging from approximately 30 to 60 feet can safely develop a design vertical load of 25 to 40 tons. It should be noted that predrilling up to 25 feet may be required to penetrate the existing debris. Deep Standard Penetration Test borings will be required before the design capacity and corresponding minimum pile embedment depths may be further evaluated.

4.1.3 Pin Piles: As an alternative to installing conventional driven pilings, it is our opinion that small diameter pin piles may be used below the structural slab. The pin piles would consist of a 4-inch diameter steel pipe driven or jetted to depths varying from 5 to 10 feet below the fill and debris, cleaned out, then injected to form a concrete bulb at its tip. As with the displacement piles, predrilling to penetrate the existing debris will be required. We have successfully used these types of piles for light construction with similar soils considerations. For preliminary design of the foundation system, an allowable vertical load capacity of 10 to 15 kips may be used.

If required and once you have had an opportunity to review the above pile alternatives, we would be pleased to finalize the recommendations for one of the pile options. Please note that additional field work consisting of Standard Penetration Test borings will be required as input to our analyses.

4.2 Pavements

It is our recommendation that the organic soil and buried debris (Stratum 1 and 2) be removed in their entirety from within the limits, and a minimum horizontal margin equal to the depth of debris, of the pavement areas. This will ensure that the subgrade soils are adequate for support of the proposed roadway. The depth of the removal could vary from 15 feet to more than 34 feet. The horizontal extent of removal would include the proposed pavement surfaces and a margin varying from 15 feet to more than 34 feet outside of the proposed pavement limits. This may not be technically feasible due to the existing structures. Once the organic soil and buried debris have been removed in their entirety, the area may be backfilled with clean sand with less than 10 percent passing the U.S. No. 200 Sieve and compacted. Compaction should continue until a minimum density equivalent to 95 percent of the soil's Maximum Modified Proctor Density Value (ASTM D-1557) has been achieved.

As an alternative to removing the organic soils and debris in their entirety, it is our opinion that partial removal to a depth of 10 feet below the pavement subgrade may be considered depending upon the composition of the debris in the fill. Partial removal would require above normal maintenance due to continuing settlement, as well as, additional design analysis for the grading of the pavement areas for the potential future settlement.

4.3 Retention Areas

Based upon the results of the investigation contained herein, it is our preliminary opinion that natural exfiltration rates from the retention areas will be moderate to low depending upon the final pond grades and geometries. It should be noted that the fill and debris (Strata 1 and 2) can adversely affect the pond exfiltration performance. In order to improve the exfiltration performance of the ponds, the debris soils (Strata 1 and 2) may require over-excavation. Once the pond configurations are finalized and stormwater runoff calculations are available, we would be pleased to perform additional evaluations and seepage analysis as input to permitting of the stormwater management system.

5.0 CLOSURE

This report has been prepared for the exclusive use of our client, HSA Golden, Inc., and for specific application to our client's project. We have strived to prepare this report in accordance with the level of care and skill ordinarily exercised by members of our profession currently practicing in Central Florida.

The purpose of this study was to evaluate the existing subsoil conditions, based upon a limited number of shallow borings, with respect to support of the proposed improvements. The boring logs presented do not reflect variations which may occur adjacent to or between the boring locations. Yovaish Engineering Sciences, Inc. has not evaluated the site for the potential presence of contaminated soil or groundwater, nor have we subjected any soil samples to analysis for contaminants as part of this geotechnical investigation.

If the nature, design or location of the facilities should change, Yovaish Engineering Sciences, Inc. should be retained to review the applicability of the evaluations and conclusions presented in this report.

We sincerely appreciate the opportunity to be of service on this portion of your site evaluations and trust that the information presented herein is complete and sufficient for your needs. If you have any questions regarding the contents of this report or if we may be of further assistance, please do not hesitate to contact the undersigned.

Sincerely,

Yovaish Engineering Sciences, Inc.

K J McAdams 8/19/04

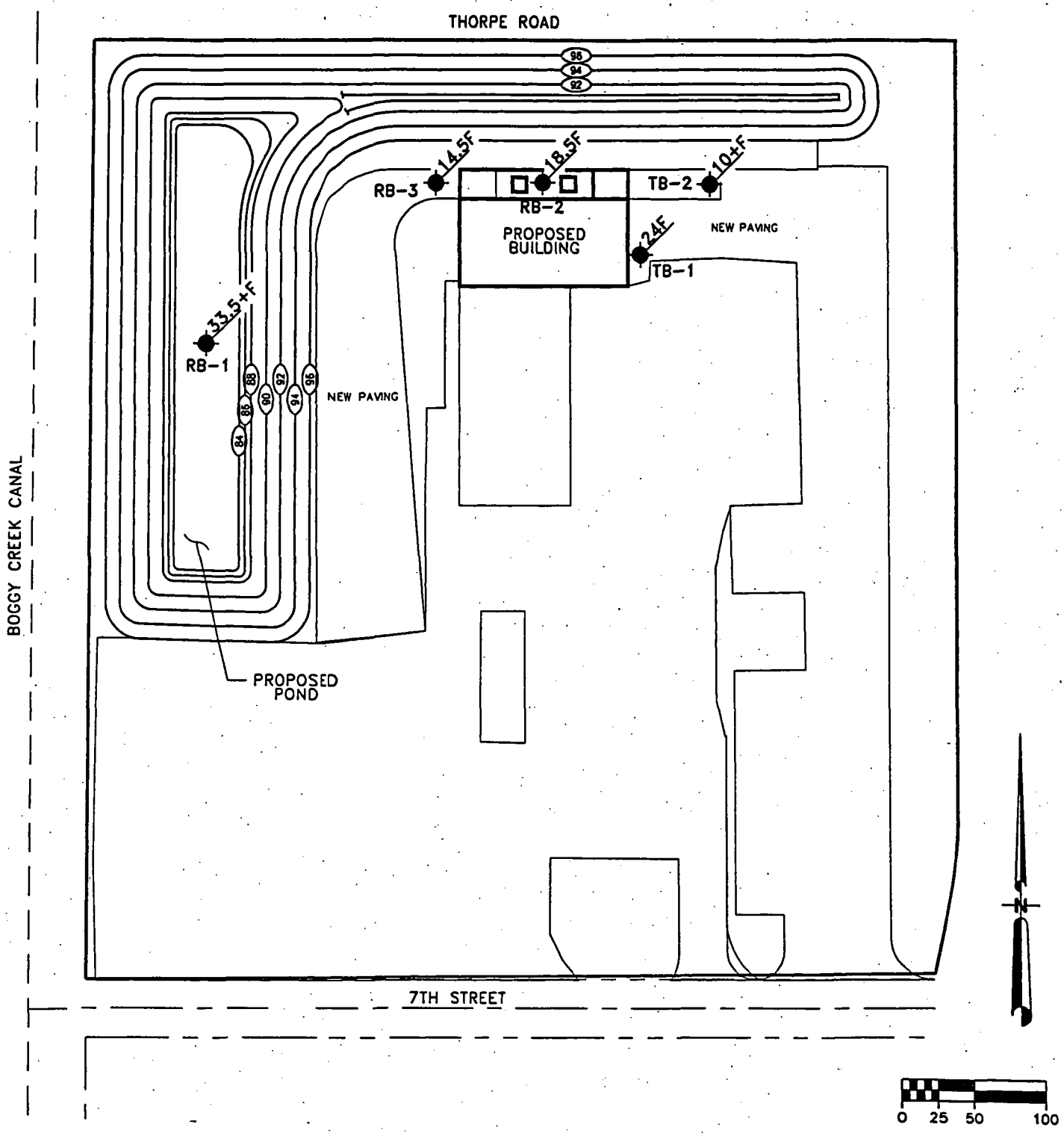
Karen J. McAdams, E.I.
Engineer Intern

8-19-04

Douglas J. Yovaish, P.E.
Principal Engineer
Florida Registration No. 52247

KJM/DJY/kjm

Attachments: Figures 1 and 2
Appendix A



LOCATION PLAN

LEGEND

AUGER BORING LOCATION

24F THICKNESS OF BURIED FILL AND DEBRIS ENCOUNTERED

YOVAISH ENGINEERING SCIENCES, INC.

Consulting Engineers in the Earth Sciences, Geotechnology, Hydrogeology and Construction Materials Testing

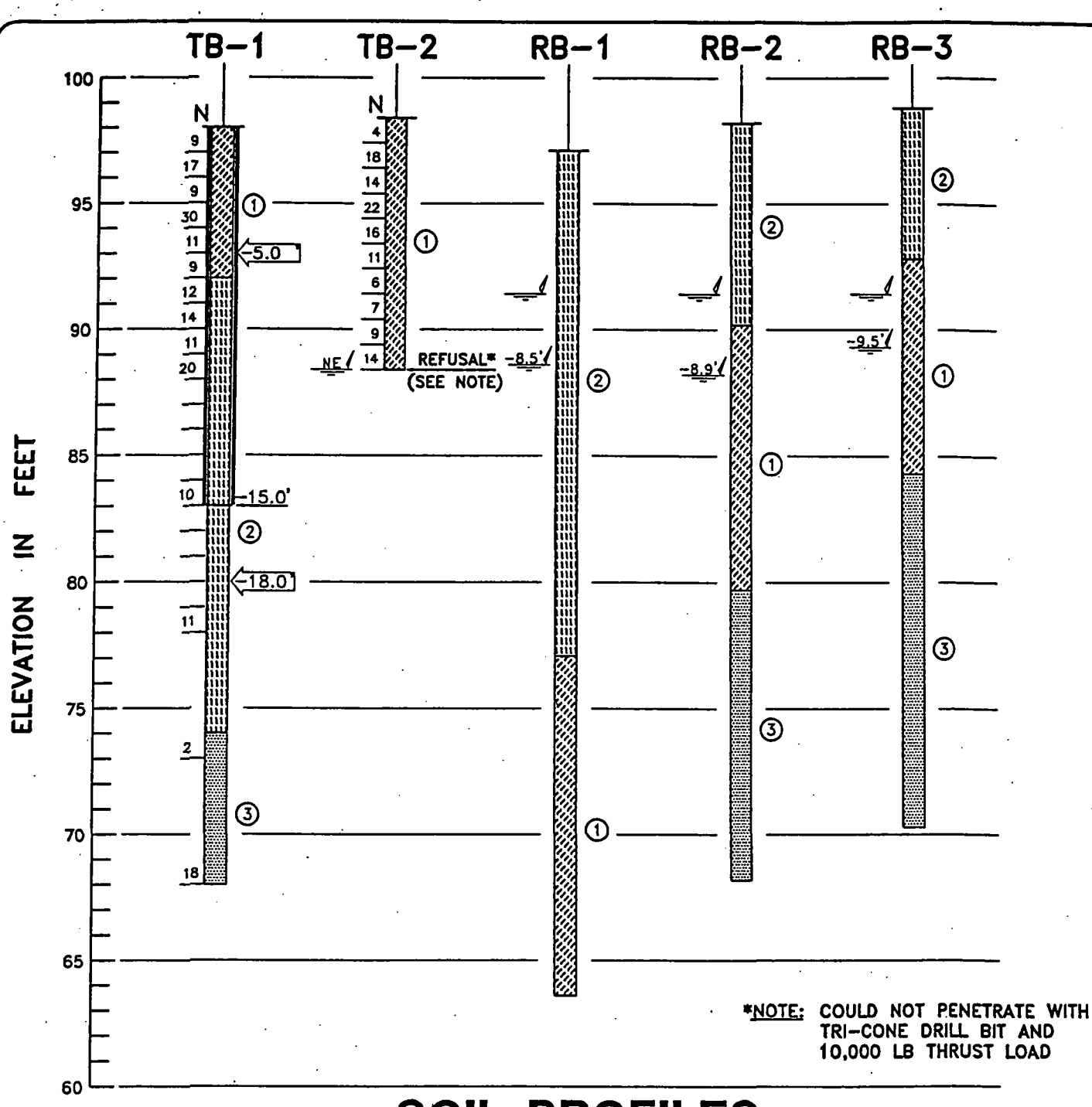
SUBSOIL & GROUNDWATER LEVEL INVESTIGATION

THE SOUTH ORLANDO WASTE PROCESSING FACILITY

CITY OF ORLANDO, FLORIDA

DRAWN : CJM	SCALE : NOTED	JOB NO. : 04-E1256.01
APPROVED : DJY	DATE : 8/11/04	FIGURE: 1

locplan.r



SOIL PROFILES

LEGEND

- ① MIXED DARK GRAY FINE SAND WITH DEBRIS (WOOD, ROCKS, CONCRETE, PLASTIC, FIBERGLASS)(SP)
- ② DARK GRAY ORGANIC FINE SAND WITH DEBRIS (WOOD, ROCKS, CONCRETE, PLASTIC, FIBERGLASS)(OS)
- ③ LIGHT GRAY TO LIGHT BROWN FINE SAND (SP)
- (SP) UNIFIED SOIL CLASSIFICATION GROUP SYMBOL
- N STANDARD PENETRATION RESISTANCE VALUE (BLOWS PER FOOT)
- W NATURAL MOISTURE CONTENT IN PERCENT
- -200 PERCENT FINES PASSING U.S. NO. 200 SIEVE
- -9.5' DEPTH TO GROUNDWATER LEVEL: MEASURED 7-04
- NE GROUNDWATER TABLE NOT ENCOUNTERED
- ESTIMATED SEASONAL HIGH GROUNDWATER TABLE
- -15.0' DEPTH TO WHICH CASING WAS INSTALLED
- 5.0 DEPTH AT WHICH TOTAL CIRCULATION LOSS OCCURRED

YOVAISH ENGINEERING SCIENCES, INC.

Consulting Engineers in the Earth Sciences, Geotechnology, Hydrogeology and Construction Materials Testing

SUBSOIL & GROUNDWATER LEVEL INVESTIGATION

THE SOUTH ORLANDO WASTE PROCESSING FACILITY

CITY OF ORLANDO, FLORIDA

DRAWN : CJM	SCALE : NOTED	JOB NO. : 04-E1256.01
APPROVED : DJY	DATE : 7/26/04	FIGURE: 2

spt pro. rg

APPENDIX A
Historic Aerial Photographs

ORANGE COUNTY AERIAL PHOTOGRAPH
DATED 1939
SECTION 2
TOWNSHIP 24 SOUTH
RANGE 29 EAST

SUBSOIL & GROUNDWATER LEVEL INVESTIGATION

THE SOUTH ORLANDO WASTE PROCESSING FACILITY

CITY OF ORLANDO, FLORIDA

DRAWN : CJM	SCALE : NOTED	JOB NO. : 04-E1256.01
APPROVED : DJY	DATE : 8/18/04	PLATE: 1

aerial.dw

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Consulting Engineers in the Earth Sciences, Geotechnology, Hydrogeology and Construction Materials Testing

ORANGE COUNTY AERIAL PHOTOGRAPH
DATED 1963
SECTION 2
TOWNSHIP 24 SOUTH
RANGE 29 EAST

SUBSOIL & GROUNDWATER LEVEL INVESTIGATION

THE SOUTH ORLANDO WASTE PROCESSING FACILITY

CITY OF ORLANDO, FLORIDA

DRAWN : CJM	SCALE : NOTED	JOB NO. : 04-E1256.01
APPROVED : DJY	DATE : 8/18/04	PLATE: 2

aerial.dwg

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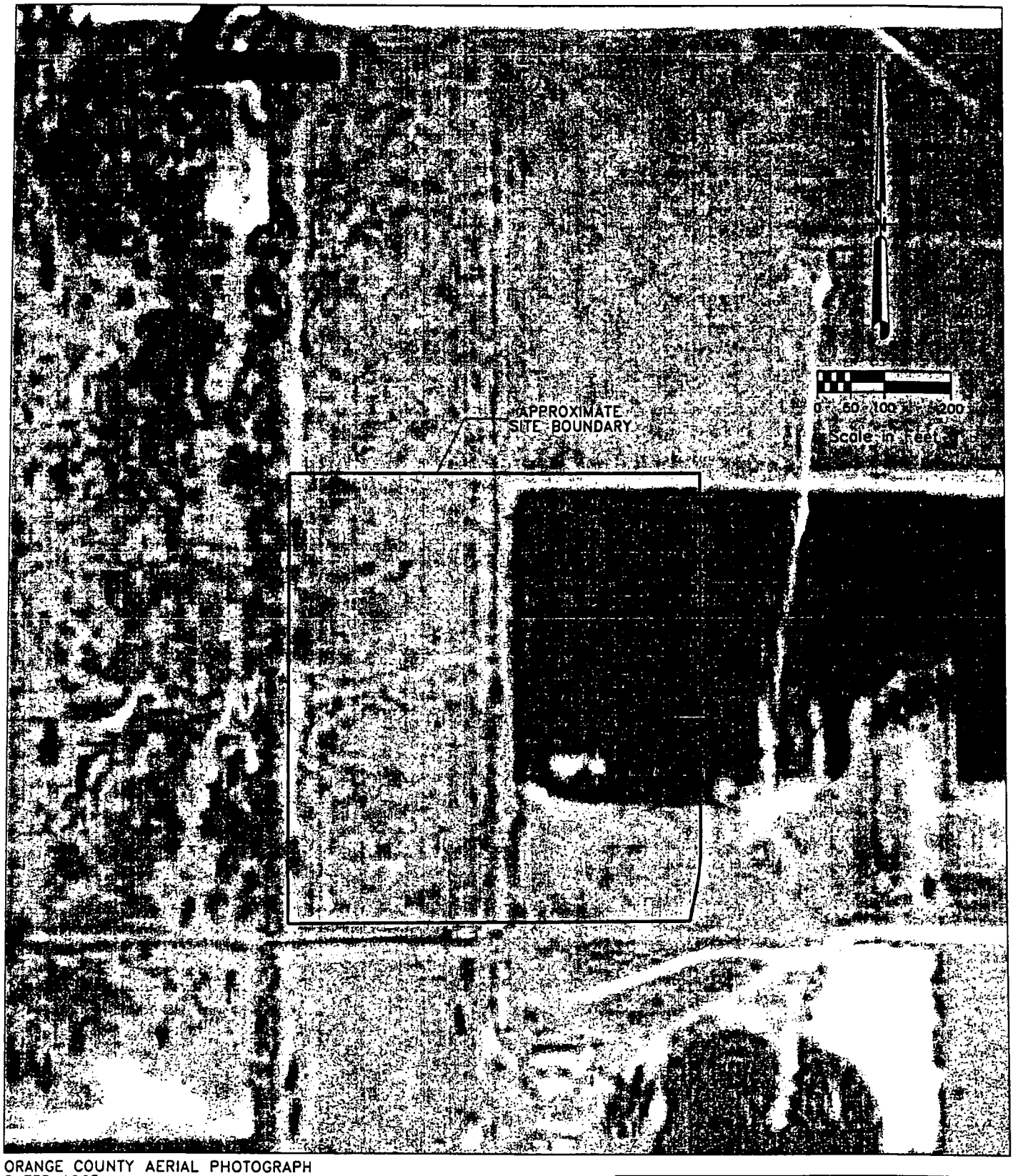

ORANGE COUNTY AERIAL PHOTOGRAPH
DATED 1965
SECTION 2
TOWNSHIP 24 SOUTH
RANGE 29 EAST

SUBSOIL & GROUNDWATER LEVEL INVESTIGATION

THE SOUTH ORLANDO WASTE PROCESSING FACILITY

CITY OF ORLANDO, FLORIDA

DRAWN : CJM	SCALE : NOTED	JOB NO. : 04-E1256.01
APPROVED : DJY	DATE : 8/18/04	PLATE: 3

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ORANGE COUNTY AERIAL PHOTOGRAPH
DATED 1969
SECTION 2
TOWNSHIP 24 SOUTH
RANGE 29 EAST

SUBSOIL & GROUNDWATER LEVEL INVESTIGATION

THE SOUTH ORLANDO WASTE PROCESSING FACILITY

CITY OF ORLANDO, FLORIDA

DRAWN : CJM	SCALE : NOTED	JOB NO. : 04-E1256.01
APPROVED : DJY	DATE : 8/18/04	PLATE: 4

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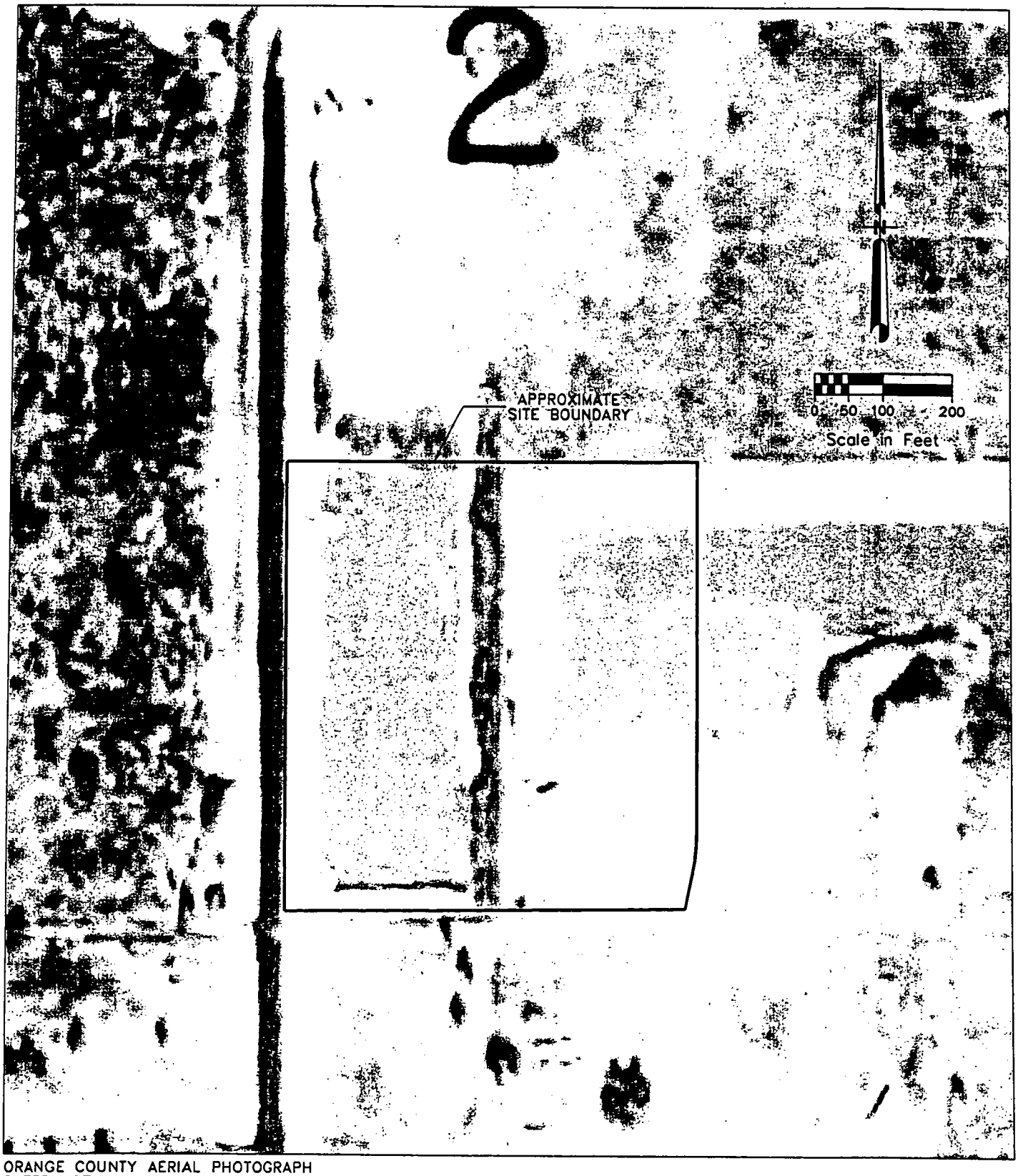

ORANGE COUNTY AERIAL PHOTOGRAPH
DATED 1971
SECTION 2
TOWNSHIP 24 SOUTH
RANGE 29 EAST

SUBSOIL & GROUNDWATER LEVEL INVESTIGATION

THE SOUTH ORLANDO WASTE PROCESSING FACILITY

CITY OF ORLANDO, FLORIDA

DRAWN : CJM	SCALE : NOTED	JOB NO. : 04-E1256.01
APPROVED : DJY	DATE : 8/18/04	PLATE: 5

YOVAISH ENGINEERING SCIENCES, INC.

Consulting Engineers in the Earth Sciences, Geotechnology, Hydrogeology and Construction Materials Testing

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ORANGE COUNTY AERIAL PHOTOGRAPH
DATED 1975
SECTION 2
TOWNSHIP 24 SOUTH
RANGE 29 EAST

SUBSOIL & GROUNDWATER LEVEL INVESTIGATION

THE SOUTH ORLANDO WASTE PROCESSING FACILITY

CITY OF ORLANDO, FLORIDA

DRAWN : CJM	SCALE : NOTED	JOB NO. : 04-E1256.01
APPROVED : DJY	DATE : 8/18/04	PLATE: 6

YOVAISH ENGINEERING SCIENCES, INC.

Consulting Engineers in the Earth Sciences, Geotechnology, Hydrogeology and Construction Materials Testing

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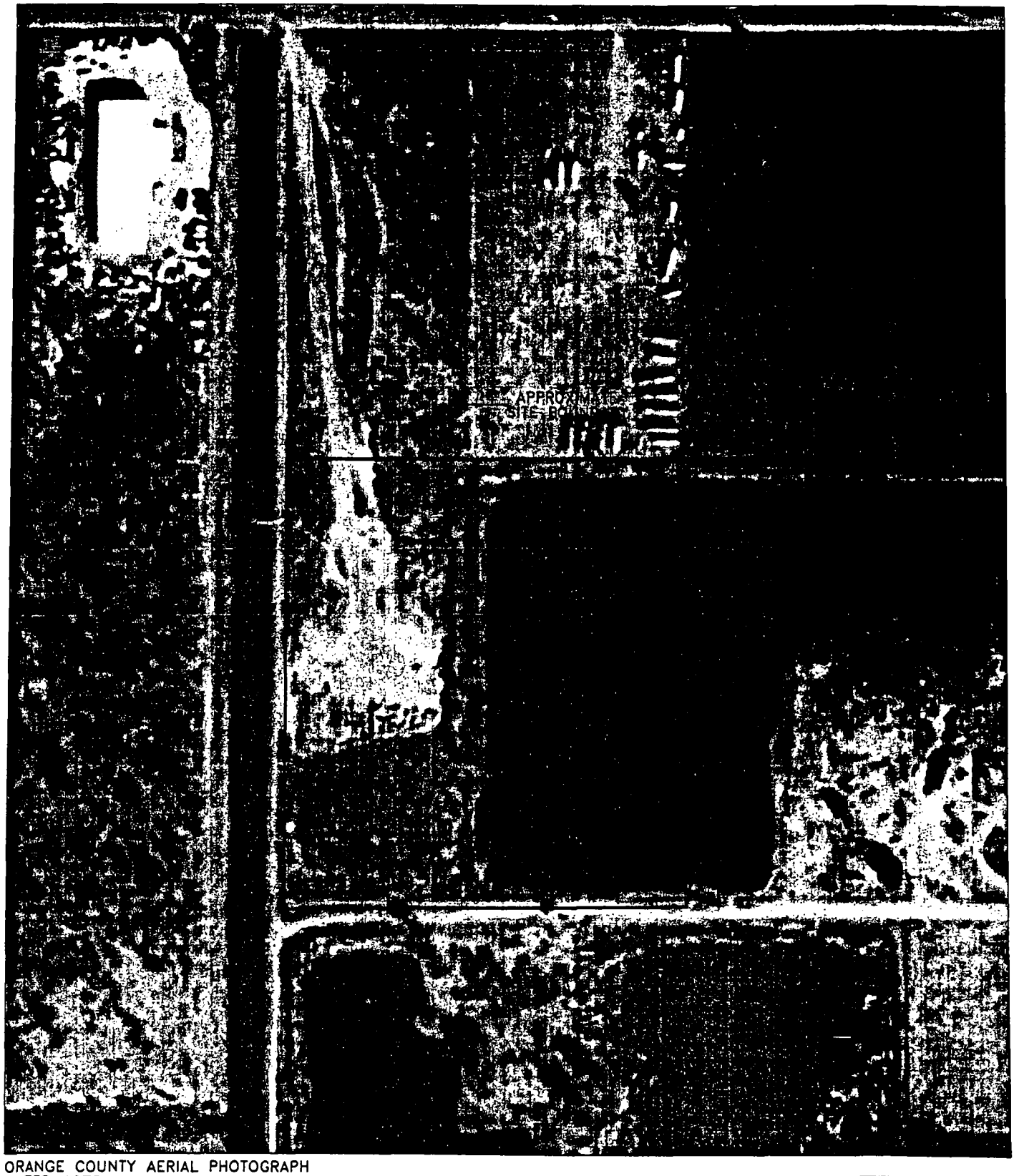

ORANGE COUNTY AERIAL PHOTOGRAPH
DATED 1978
SECTION 2
TOWNSHIP 24 SOUTH
RANGE 29 EAST

SUBSOIL & GROUNDWATER LEVEL INVESTIGATION

THE SOUTH ORLANDO WASTE PROCESSING FACILITY

CITY OF ORLANDO, FLORIDA

DRAWN : CJM	SCALE : NOTED	JOB NO. : 04-E1256.01
APPROVED : DJY	DATE : 8/18/04	PLATE: 7

YOVAISH ENGINEERING SCIENCES, INC.

Consulting Engineers in the Earth Sciences, Geotechnology, Hydrogeology and Construction Materials Testing

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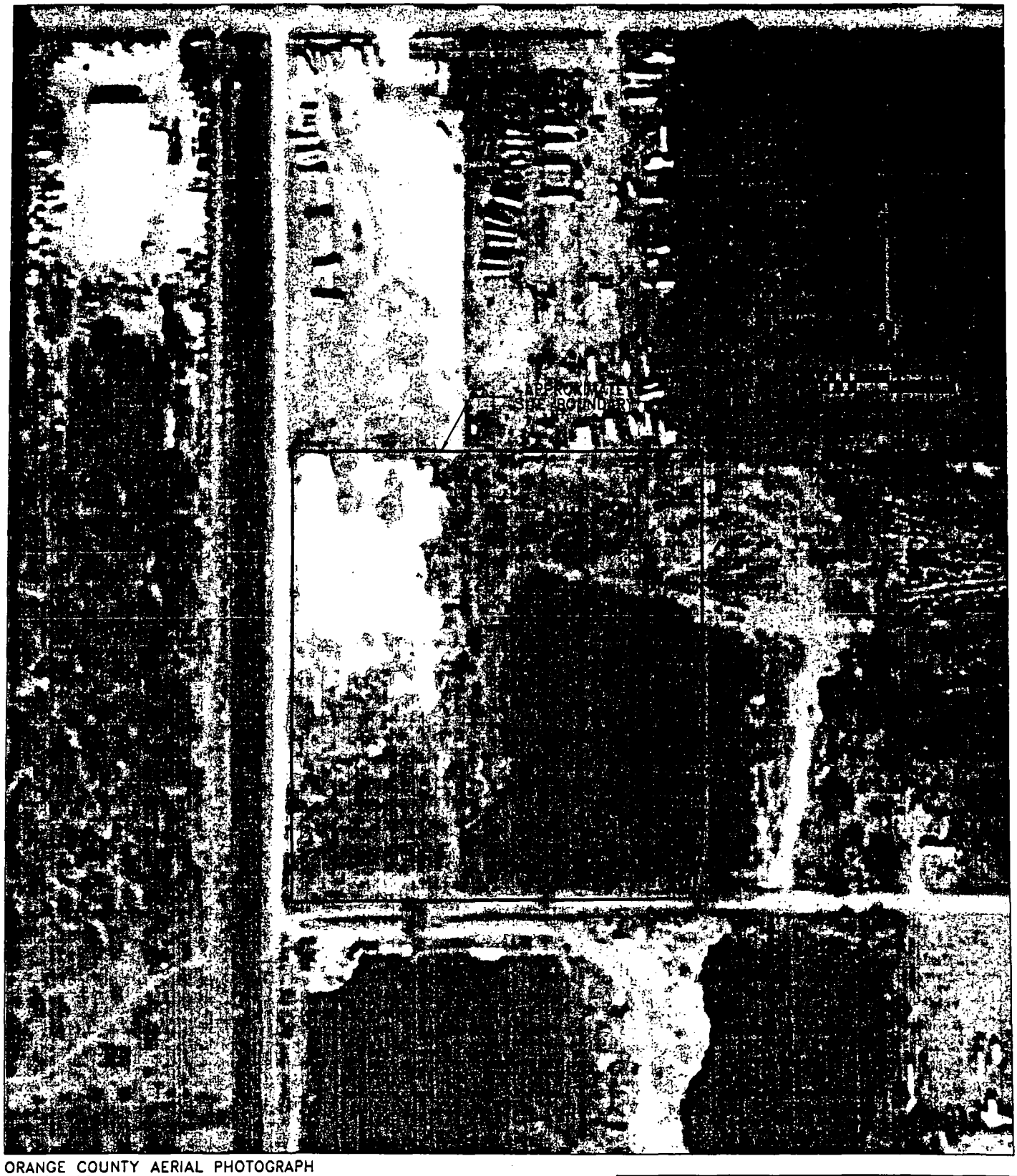

ORANGE COUNTY AERIAL PHOTOGRAPH
DATED 1984
SECTION 2
TOWNSHIP 24 SOUTH
RANGE 29 EAST

SUBSOIL & GROUNDWATER LEVEL INVESTIGATION

THE SOUTH ORLANDO WASTE PROCESSING FACILITY

CITY OF ORLANDO, FLORIDA

DRAWN : CJM	SCALE : NOTED	JOB NO. : 04-E1256.01
APPROVED : DJY	DATE : 8/18/04	PLATE: 8

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Consulting Engineers in the Earth Sciences, Geotechnology, Hydrogeology and Construction Materials Testing

ORANGE COUNTY AERIAL PHOTOGRAPH
DATED 1987
SECTION 2
TOWNSHIP 24 SOUTH
RANGE 29 EAST

SUBSOIL & GROUNDWATER LEVEL INVESTIGATION

THE SOUTH ORLANDO WASTE PROCESSING FACILITY

CITY OF ORLANDO, FLORIDA

DRAWN :	SCALE :	JOB NO. :
CJM	NOTED	04-E1256.01
APPROVED :	DATE :	PLATE:
DJY	8/18/04	9

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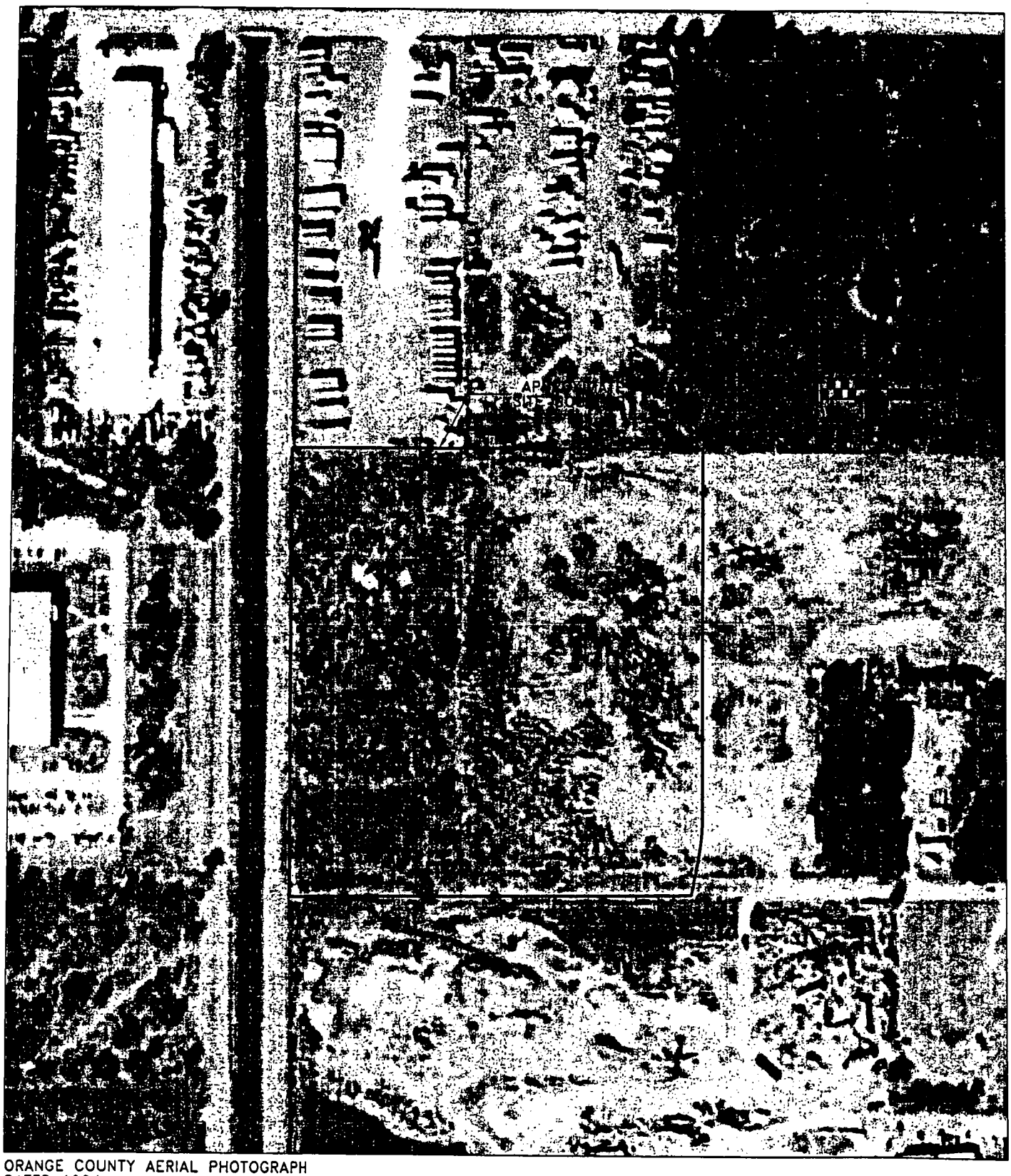
YOVAISH ENGINEERING SCIENCES, INC.

Consulting Engineers in the Earth Sciences, Geotechnology, Hydrogeology and Construction Materials Testing



ORANGE COUNTY AERIAL PHOTOGRAPH
DATED 1994
SECTION 2
TOWNSHIP 24 SOUTH
RANGE 29 EAST

SUBSOIL & GROUNDWATER LEVEL INVESTIGATION

THE SOUTH ORLANDO WASTE PROCESSING FACILITY

CITY OF ORLANDO, FLORIDA

DRAWN : CJM	SCALE : NOTED	JOB NO. : 04-E1256.01
APPROVED : DJY	DATE : 8/18/04	PLATE: 10

YOVAISH ENGINEERING SCIENCES, INC.

Consulting Engineers in the Earth Sciences, Geotechnology, Hydrogeology and Construction Materials Testing

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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.

for asl
774-9383

6816 Hanging Moss Road
Orlando, Florida 32807
(407) 671-6554 FAX (407) 671-5540

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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.

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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

Chr Meyer 8-22-00

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

CPM/TLS/vfs

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

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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.

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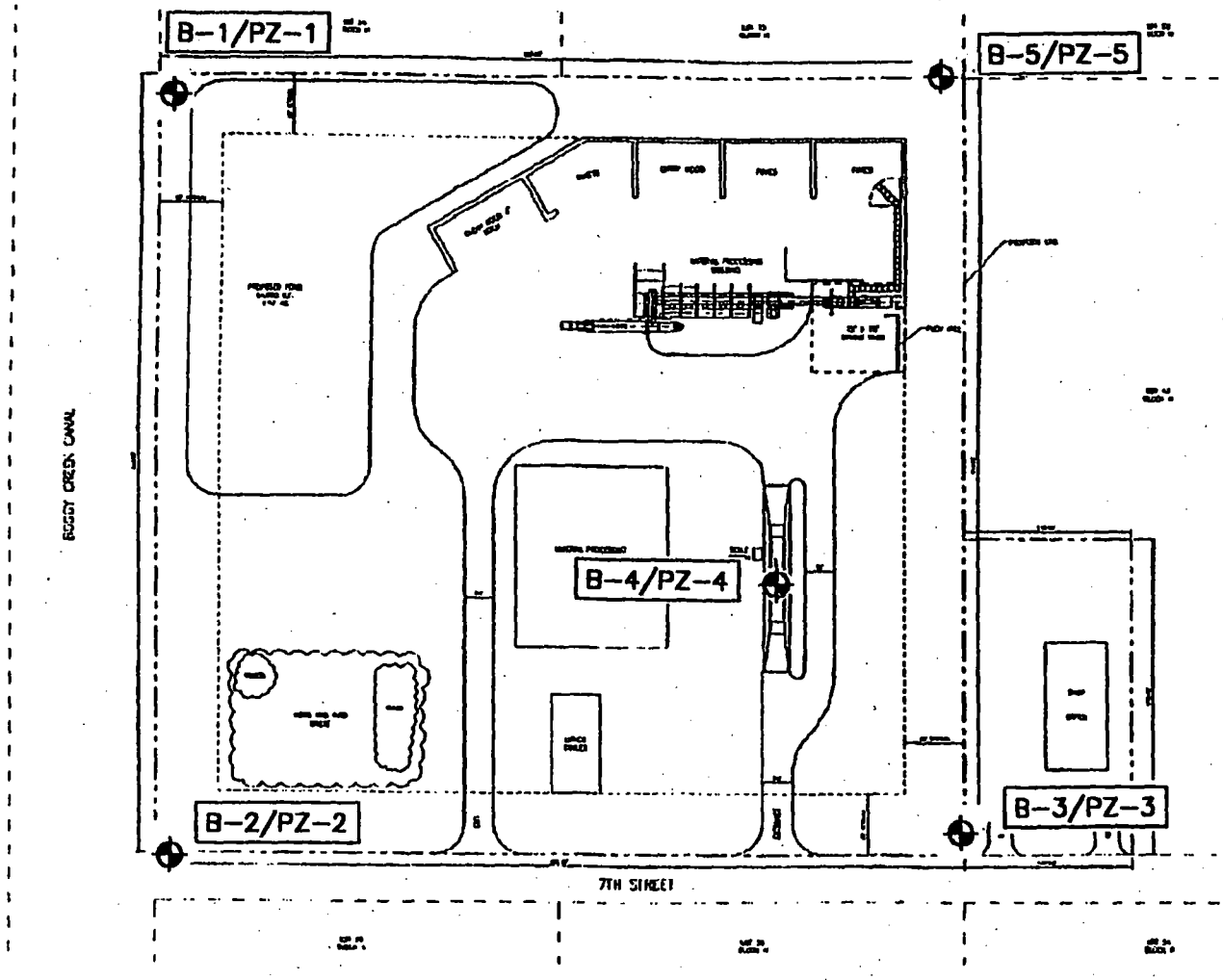

LEGEND

B- STANDARD PENETRATION TEST (SPT) BORING LOCATION

BORING LOCATION PLAN

GPA FILE NO. 00-1053	GEOTECHNICAL PROFESSIONAL ASSOCIATES, INC. 6816 HANGING MOSS RD. ORLANDO, FLORIDA 32807 (407) 671-6564 Fax: (407) 671-6540	Proposed Recyclery Taft, Florida

FIGURE 1

48-1791380011

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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

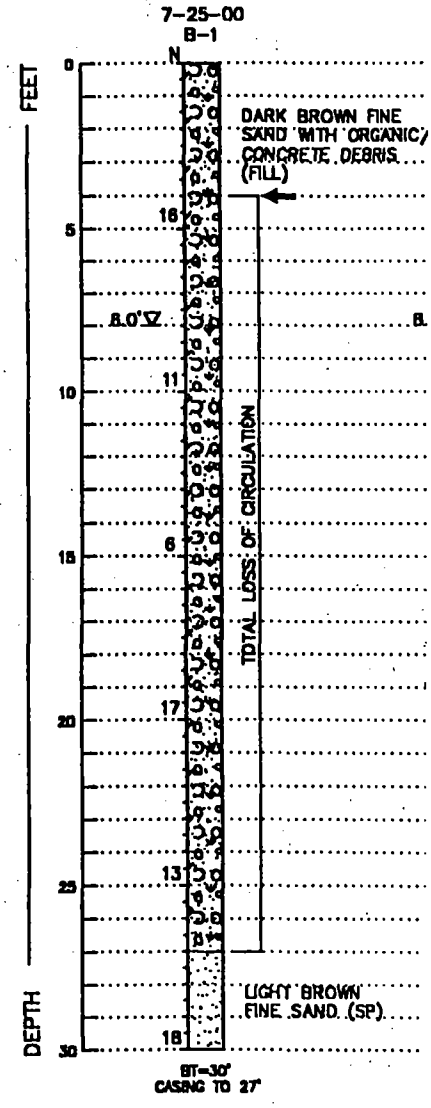
← COMPLETE LOSS OF DRILLING FLUID CIRCULATION

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.

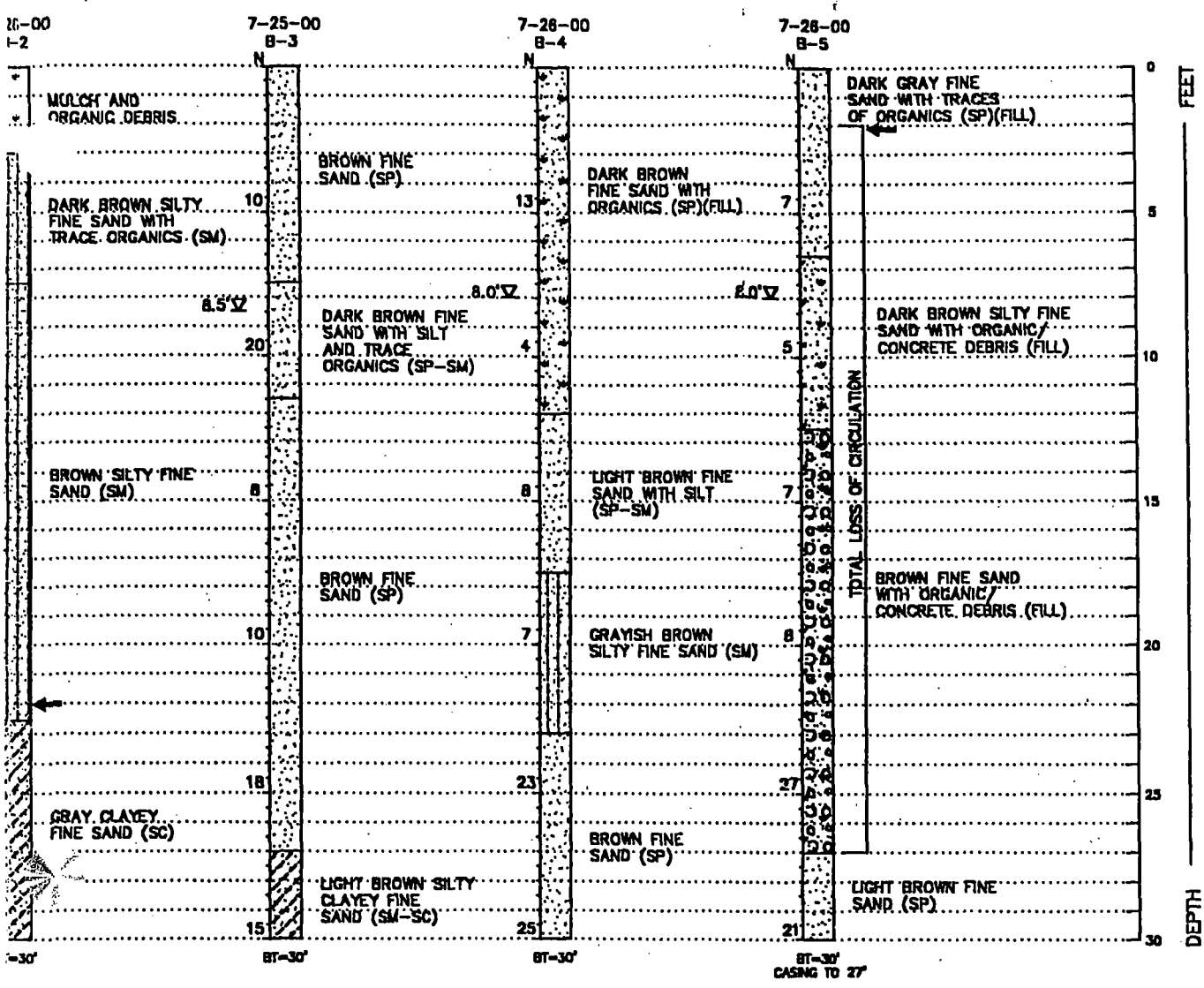
GROUNDWATER ELEVATIONS SHOWN ON THE BORING LOGS REPRESENT GROUNDWATER SURFACES ENCOUNTERED ON THE DATES SHOWN. FLUCTUATIONS IN WATER TABLE LEVELS SHOULD BE ANTICIPATED THROUGHOUT THE YEAR.

CADD FILE: 00-1053 8/15/00

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Drawn by MLB 8/00
Checked by SPG 8/00

ENGINEER OF RECORD:
CHRISTOPHER P. MEYER, P.E.
FL. REG. NO. 49338
GEOTECHNICAL PROFESSIONAL ASSOC., INC.
6814 HANSEL BOSS ROAD
ORLANDO, FL 32807



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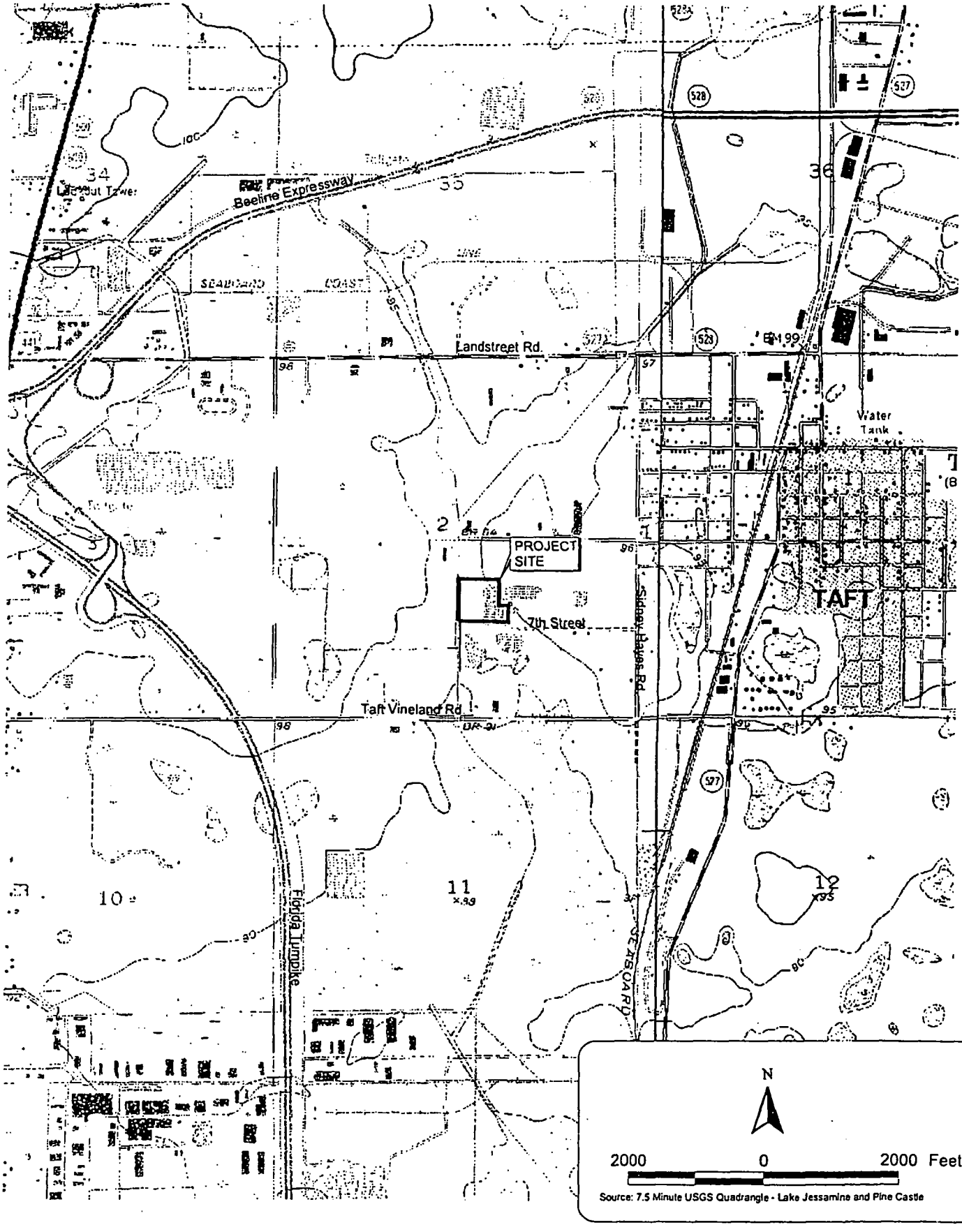
BORING PROFILES

GPA	SEAL:	CLIENT: HARTMAN & ASSOCIATES	PROJECT NAME: PROPOSED RECYCLERY TAFT, FLORIDA
		CLIENT PROJECT NO. / COUNTY / GPA PROJECT NO.	

FIGURE 2



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

SITE LOCATION MAP
SOUTH ORLANDO TRANSFER STATION
TAFT RECYCLING, INC.
TAFT, FLORIDA

FIGURE 1

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48-179138001

ATTACHMENT G

STORMWATER MANAGEMENT PERMIT

Department of Environmental Protection

Jeb Bush
Governor

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

Colleen Castille
Secretary

NOTICE OF PERMIT

In the Matter of an
Application for Permit by:
Taft Recycling, Inc.
375 W. 7th Street
Orlando, FL 32824

Attention: Bill Condron, Regional Manager

Orange County - ERP
Taft Recycling Class II MRF
File No. 48-0179138-002

Dear Mr. Condron:

Enclosed is Permit Number ERP48-0179138-002-EM to modify an existing stormwater management system for a material recycling facility. This project is located in Orange County, within Section 02 of Township 24 South, Range 29 East. This permit is issued pursuant to Section 373.118, 373.413, 373.416, and 373.426, *Florida Statutes* (F.S.) and Rules 40E-4, 40E-40, 40E-41, 40E-400, 62-312, and 62-343, *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.

If there are any questions, please contact Debra Laisure, P.E., of the Submerged Lands and Environmental Resource Program by telephone (407-893-7874), fax (407-893-3075), or email (Debra.Laisure@dep.state.fl.us).

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

David Herbster
Submerged Lands and Environmental Resources
Program

Date: JAN. 7, 2005

DH/dl/la

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.

Clerk Date 1/7/05

Enclosure: Permit No. ERP48-0179138-002-EM

Copies furnished to: Ed Yaun, P.E., SFWMD (email)
David L. Leggett, P.E., HSA Golden (email)

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on January 7, 2005 to the listed persons by Carol O'Keefe.

Rev. 4/91

Department of Environmental Protection

Jeb Bush
Governor

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

Colleen Castille
Secretary

PROJECT INFORMATION:
Permit Number: ERP48-0179138-002-EM
Expiration Date: January 7, 2010
County: Orange
Latitude: 28° 25' 33.59"N;
Longitude: 81° 22' 59.89"W
Section 02/Township 24 South/Range 29 East
Project: Taft Recycling Class II MRF

PERMITTEE:
Taft Recycling, Inc.
375 W. 7th Street
Orlando, FL 32824

Attention: Bill Condron, Regional Manager

Orange County - ERP
DEP File Number: 48-0179138-002

Dear Mr. Condron:

This permit is issued under the provisions of Part IV of Chapter 373, *Florida Statutes* (F.S.) and Chapters 62.4, 62-302, 62-312, 62-330, 62-343, 62-101.040, 40E-4, 40E-40, 40E-41, 40E-400, *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:

Modify and Operate: an existing stormwater management system for a material recycling facility. This project is located, south of Thorpe Road and west of Orange Avenue, on 375 W. 7th Street, in Orlando, Orange County. The total project area will be 8.92 acres, of which 4.39 acres will be of impervious surface. The project will include construction of a material recycling facility, additional paved area, the modification of the existing wet detention pond and raising the elevation of the bleeder orifice on the control structure. The elevations for the bottom of the pond, the top of the berm and the bleed down orifice invert will be at 86, 96 and 95 feet (N.G.V.D.), respectively.

The 6 accompanying figures, will be attached to, and become a part of, this permit.

DEP Form 62-1.201(5)
Effective November 30, 1992

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. At least 48 hours prior to the commencement of construction activities authorized by this permit, the permittee shall submit to the Department a notice of commencement indicating the start time.

3. 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.

4. 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

5. 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

6. 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:

INSPECTION REPORTS

7. Inspection reports for retention, underdrain, wet detention, swales, and wetland stormwater management systems shall be submitted to the Department two years after completion of construction and every two years thereafter on the enclosed form.

8. Copies of all turbidity monitoring reports shall be provided to the Department on a monthly basis. Reports shall be submitted to the letterhead address.

CONSTRUCTION DETAILS

9. 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.

10. 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.

11. 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.

EROSION CONTROL MEASURES

12. 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:

13. 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;

    B. 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.

14. 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

15. Within 30 days after completion of construction of the surface water management system, the permittee shall submit the enclosed form and two sets of record drawings of the project, as actually constructed, thereby notifying the Department that the facilities are ready for final inspection and approval. 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 Rule 40C-42.028, F.A.C.

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

MAINTENANCE ACTIVITIES

17. The following maintenance activities shall be performed as needed on

    A. All permitted systems:
        1. removal of trash and debris;
        2. inspection of inlets and outlets;
        3. removal of sediments when the storage volume or conveyance capacity of the stormwater management system is below design levels; and
        4. stabilization and restoration of eroded areas.

SPECIFIC CONDITIONS:

B. Retention, swale, and underdrain systems:
   1. mowing and removal of grass clippings;
   2. aeration, tilling, or replacement of topsoil; and
   3. re-establishment of vegetation on disturbed surfaces.

C. Wet detention systems:
   1. replanting of natural vegetation within the littoral zone;
   2. control of nuisance and exotic vegetation;

18. If the system is not functioning as designed and permitted, operational maintenance must be performed immediately to restore the system. If operational maintenance measures are insufficient to enable the system to meet the design and performance standards of this chapter, the permittee must either replace the system or construct an alternative design. A permit modification must be obtained from the Department prior to constructing such an alternate design pursuant to section 40C-4.331, F.A.C.

19. If during the progress of this project prehistoric or historic artifacts, such as pottery or ceramics, stone tools or metal implements, dugout canoes, or any other physical remains that could be associated with Native American cultures are encountered at any time within the project site area, work should cease in the immediate vicinity of such discoveries. The permittee, or other designee, should contact the Florida Department of State, Division of Historical Resources, Review and Compliance Section at 850/245-6333, or (800) 847-7278, as well as the appropriate permitting agency office. Project activities should not resume without verbal and/or written authorization from the Division of Historical Resources.

20. In the event that any unmarked human remains are encountered anywhere on the subject property, all work shall stop immediately and the proper authorities notified in accordance with Section 872.05, Florida Statutes. The permittee, or other designee, should contact the authority cited in this Section. Thereafter, project activities should not resume without verbal and/or written authorization from the designated official.

Executed in Orlando, Florida.

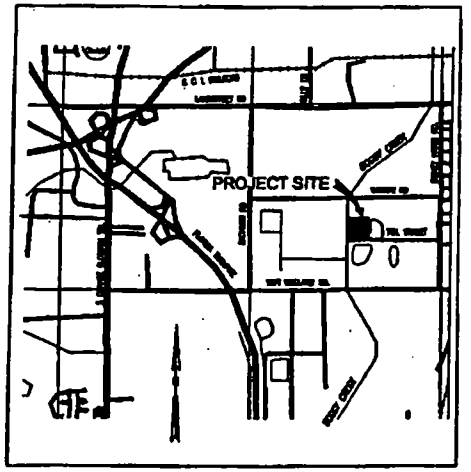
STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

David Herbster
Submerged Lands and Environmental Resources
Program

Date of Issue: JAN. 7, 2005

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

LOCATION MAP



INDEX

-	COVER
G-1	GENERAL NOTES AND SITE CALCULATIONS
C-3	EXISTING CONDITIONS
C-4	GRADING AND DRAINAGE PLAN
D-2	DETAILS AND CROSS SECTIONS
D-3	DETAILS AND CROSS SECTIONS

PREPARED FOR

TAFT RECYCLING, INC.
375 WEST 7th STREET
ORLANDO, FLORIDA 32824

Received
OCT 0 6 ...
Central Dist. SLERP

DATE: OCTOBER 2004
PROJECT No. 04-297.001

Received
Central Dist. SLERP

Figure 1 of 6

PREPARED BY:

HSA Golden
225 East Robinson Street
Suite 100
Orlando, Florida
32801
tel: 407 849-5475
fax: 407 849-6562

David R. Rogatt
10-4-04

GENERAL NOTES

SITE COVER CALCULATIONS

TOTAL SITE AREA 6.48 ACRES

EXISTING CONDITIONS

DESCRIPTION	AREA	
	AC	%
PERVIOUS	4.60	6.38
PAVEMENT	1.20	26.6
ROOF	0.43	4.7
POND (TO BE MIT)	0.20	5.0
TOTAL	4.60	100

PROPOSED CONDITIONS

DESCRIPTION	AREA	
	AC	%
PERVIOUS	2.75	41.0
PAVEMENT	3.00	45.1
GRAVEL	0.20	3.0
ROOF	0.87	6.4
POND (TO BE MIT)	0.70	6.7
TOTAL	6.62	100.0

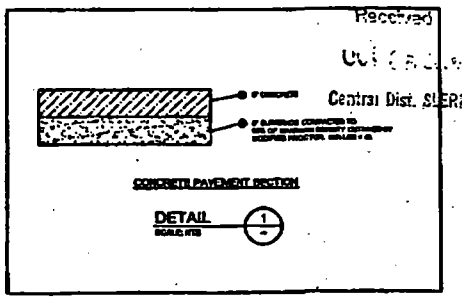


Figure 2 of 6

HSA Golden
225 East Robinson Street
Suite 120
Orlando, Florida
32801
Phone: 407 648-5475
Fax: 407 648-5592

DOCUMENT REUSE

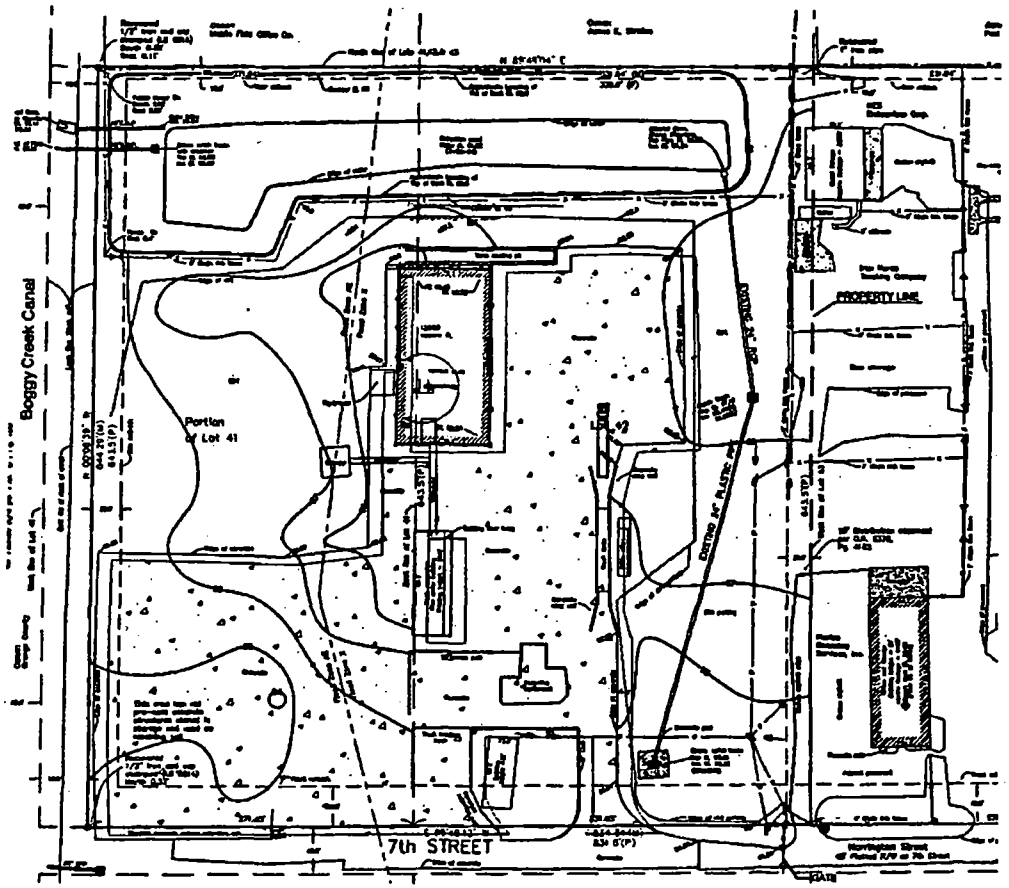
TAFT RECYCLING, INC.
ORANGE COUNTY, FLORIDA

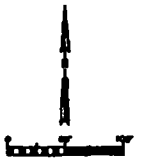
GENERAL NOTES AND SITE CALCULATIONS

DATE	REVISIONS	REVISED	CHECKED

	BY	DATE
DESIGNED	DLL	10/04
DRAWN	DRD	10/04
CHECKED	JRS	10/04
QC APPROVAL	DLL	10/04
FILE: 04297001DGN.DWG		

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





LEGEND

- denotes sign
- denotes infrared end section
- denotes storm drain manhole
- denotes existing concrete area
- denotes storm catch basin
- denotes wood utility pole unless otherwise noted
- denotes guy wire
- denotes electric box
- (M) denotes field measured distance
- (P) denotes plat distance
- denotes overhead power line
- RCP denotes reinforced concrete pipe
- CPP denotes corrugated plastic pipe
- CMP denotes corrugated metal pipe
- denotes recovered 4"x4" concrete monument
- denotes telephone riser
- denotes set 5/8" iron rod and cap stamped "PSM 5205" unless otherwise noted
- denotes flattened bushness
- denotes insert
- denotes 6' chain link fence unless otherwise noted
- denotes mailbox
- denotes telephone riser
- denotes fence gate

Figure 3 of 6

Received

OCT 05 2004

Central Dist. SLERP

HSA Golden
225 East Robinson Street
Suite 160
Orlando, Florida
32801
Phone: 407 648-9775
Fax: 407 648-0522

DOCUMENT REUSE

TAFT RECYCLING, INC.
ORANGE COUNTY, FLORIDA

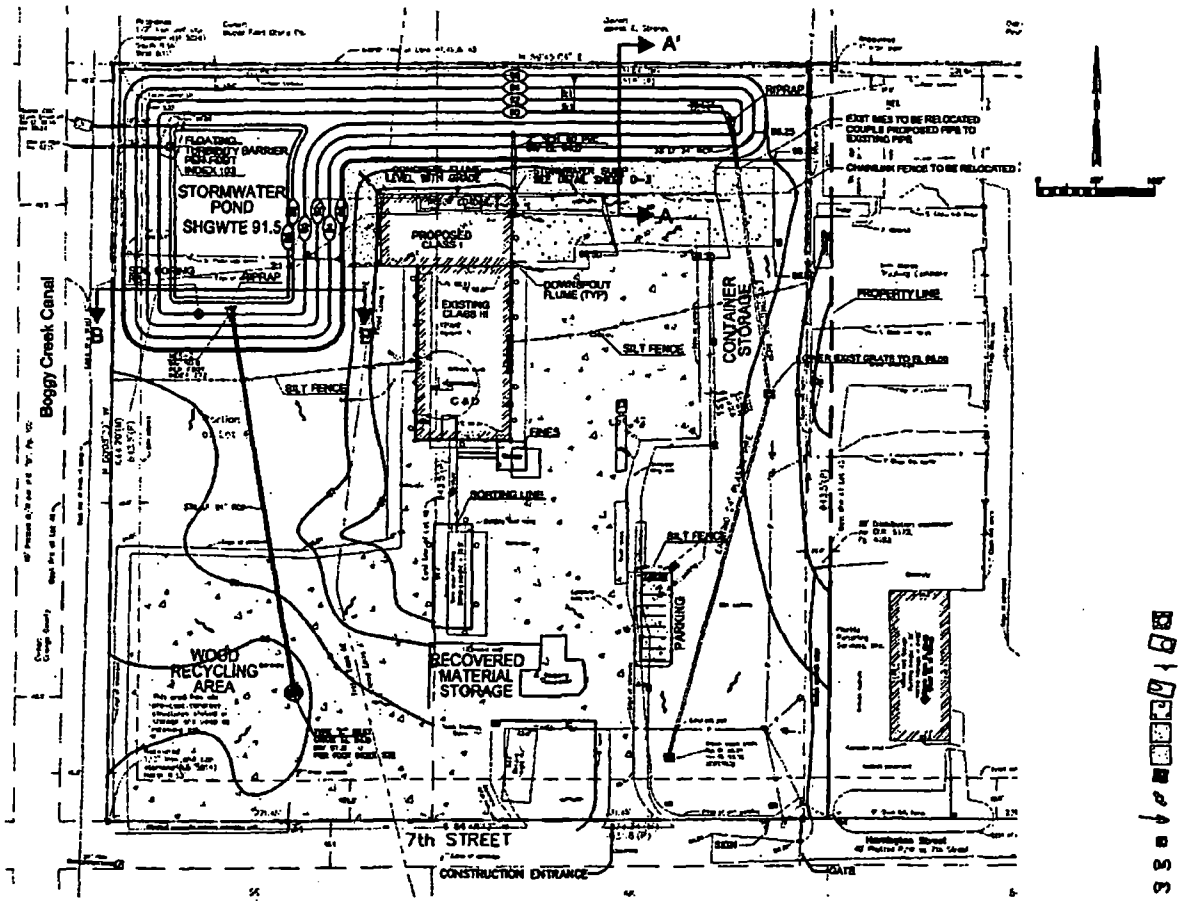
CLASS I & III WPF
EXISTING CONDITIONS

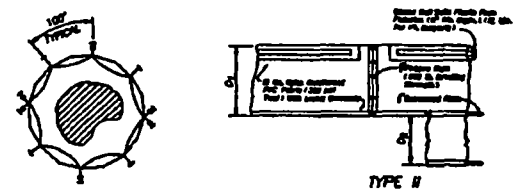
DATE	REVISIONS	REVISED	CHECKED

Date L. Leggett, P.E.
P.E. No. 35867, S.
Signature Date 10-4-04

	BY	DATE
DESIGNED	DLL	10/04
DRAWN	DRD	10/04
CHECKED	DLL	10/04
QC APPROVAL	JEG	10/04
FILE	04297001C10.DWG	

PROJECT NO. 04-297.001
SCALE 1"=30'
C-3
SHEET OF





LEGEND

- PILE LOCATIONS
- DREDGE OR FILL AREA
- MOORING BOUY W/ ANCHOR
- ANCHOR
- BARRIER MOVEMENT DUE TO CURRENT ACTION

D_1 = 5' STD. (SINGLE PANEL FOR DEPTHS 5' OR LESS).
D_2 = 5' STD (ADDITIONAL PANEL FOR DEPTHS > 5').
CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET. TWO (2) PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY CALLED FOR IN THE PLANS OR AS DETERMINED BY THE ENGINEER.

NOTICE:
COMPONENTS OF TYPE II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPE II SHALL BE AS APPROVED BY THE ENGINEER.

FLOATING TURBIDITY BARRIERS

NOTES:

1. TURBIDITY BARRIERS ARE TO BE USED IN ALL PERMANENT BODIES OF WATER REGARDLESS OF WATER DEPTH.
2. NUMBER AND SPACING OF ANCHORS DEPENDENT ON CURRENT VELOCITIES.
3. DEPLOYMENT OF BARRIER AROUND PILE LOCATIONS MAY VARY TO ACCOMMODATE CONSTRUCTION OPERATIONS.
4. INVASION MAY REQUIRE SEDIMENTING BARRIER DURING CONSTRUCTION OPERATIONS.
5. FOR ADDITIONAL INFORMATION SEE SECTION 104 OF THE STANDARD SPECIFICATIONS.

TURBIDITY BARRIER APPLICATIONS
FDOT INDEX 103

LEGEND

- RIPRAP
- FLUME
- denotes sign
- denotes mitered end section
- denotes existing concrete area
- denotes proposed concrete area
- denotes proposed gravel area
- denotes storm catch basin
- denotes wood utility pole unless otherwise noted
- denotes guy wire
- ED denotes electric box
- (M) denotes field measured distance
- (P) denotes plat distance
- denotes overhead power line
- RCP denotes reinforced concrete pipe
- CPP denotes corrugated plastic pipe
- CMP denotes corrugated metal pipe
- denotes recovered 4"x4" concrete monument
- denotes telephone riser
- denotes set 5/8" iron rod and cap stamped "PSM 5200" unless otherwise noted
- LB denotes licensed business
- INV denotes invert
- denotes 6' chain link fence unless otherwise noted
- denotes mailbox
- denotes telephone riser
- denotes fence gate
- 1000 W MH SHOEBOX OUTDOOR LIGHT @ 30 FT AG
- 400 W METAL HALIDE LIGHT – BLDG MOUNT
- STORM WATER FLOW DIRECTION

Figure 4 cont

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

DOCUMENT REUSE

TAFT RECYCLING, INC.
ORANGE COUNTY, FLORIDA

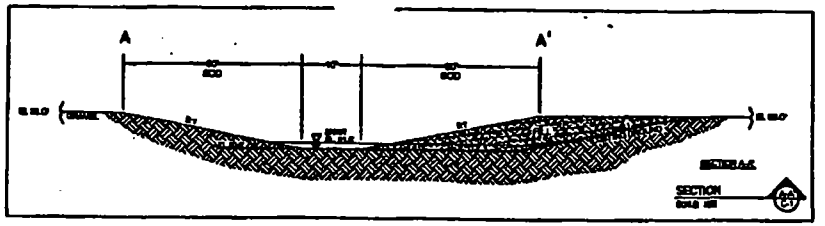
CLASS I AND III WPF
GRADING AND DRAINAGE PLAN

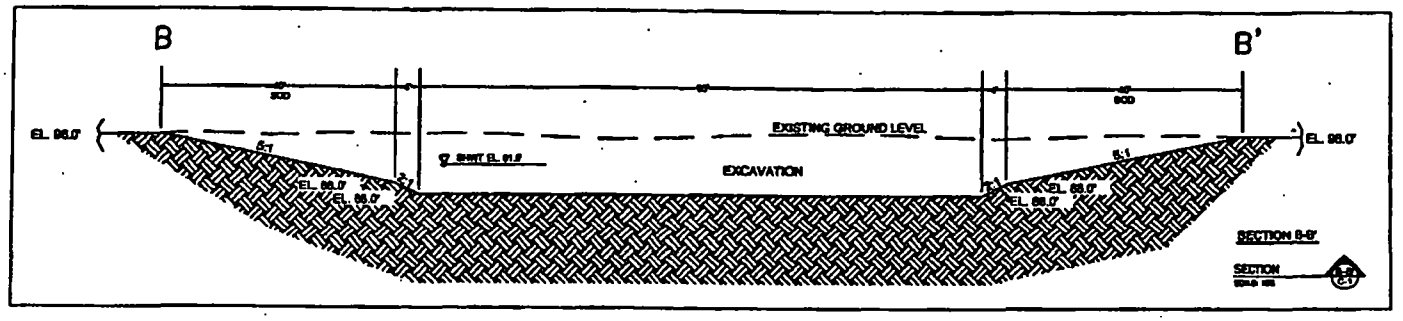
DATE	REVISIONS	REVISED	CHECKED
11/04	ADDED FLOATING TURBIDITY BARRIERS	DRD	DLL

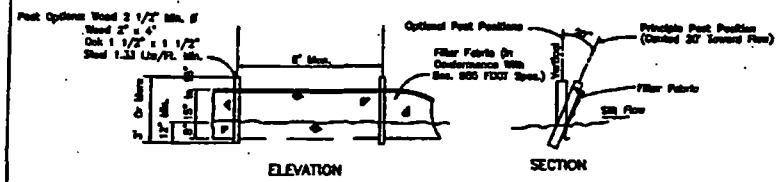
David L. Lagrelle, P.E.
P.E. No. 55487, FL
Engineering Business No. 2672
DATE 11-9-04

	BY	DATE
DESIGNED	DLL	10/04
DRAWN	DRD	10/04
CHECKED	DLL	10/04
PROJ APPROVAL	JED	10/04

PROJECT NO. 04-287.001
SCALE AS NOTED
FILE: 04287001HC10.DWG
SHEET C-4 OF

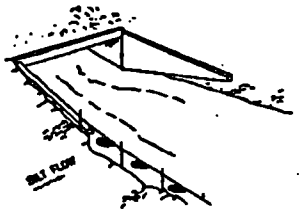






Note: Silt Fence to be paid for under the contract unit price for Staked Silt Fence (0.1").

TYPE III SILT FENCE



TYPE III SILT FENCE

TYPE III SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS.

TYPE III SILT FENCE

SILT FENCE TYPE III DETAIL

DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.

SILT FENCE APPLICATIONS

DETAIL 1 / C-4
SCALE: NTS

Received
Central Dist. SLERP

Figure 5 of 6

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

DOCUMENT REUSE

TAFT RECYCLING, INC.
ORANGE COUNTY, FLORIDA

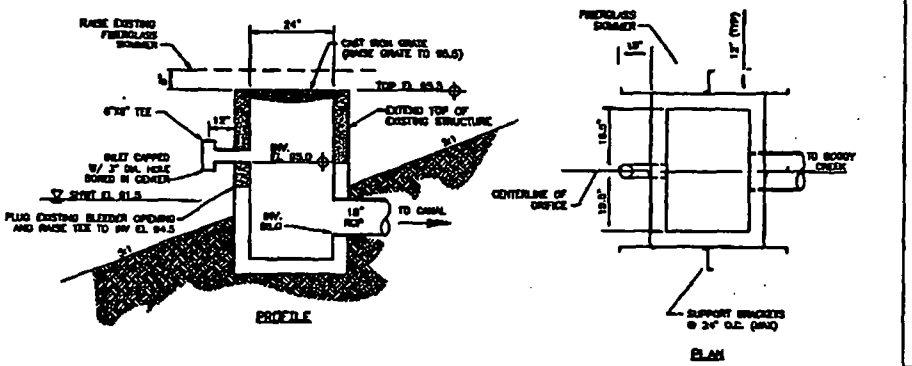
CLASS I AND III WPF
DETAILS AND CROSS SECTIONS

DATE	REVISIONS	REVISED	CHECKED

David L. Lagrell, P.E.
P.E. No. 35847, FL
Engineering Business No. 5789
DATE 10-8-04

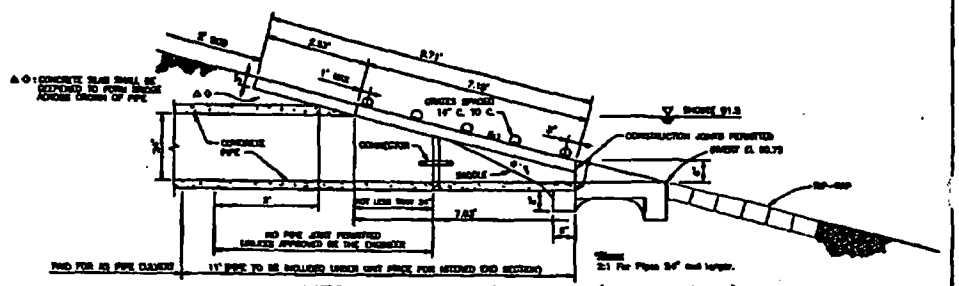
	BY	DATE
DESIGNED	DLL	10/04
DRAWN	DRD	10/04
CHECKED	JEG	10/04
QC APPROVAL	DLL	10/04
FILE	04297001005.DWG	

PROJECT NO. 04-297.001
SCALE AS NOTED
D-2
SHEET 07

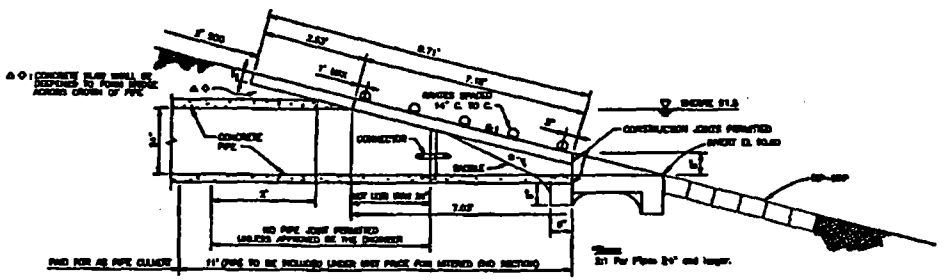


EXISTING CONTROL STRUCTURE
(MOD. FDOT TYPE "C" INLET PER STANDARD INDEX 232)
SCALE: N.T.S.

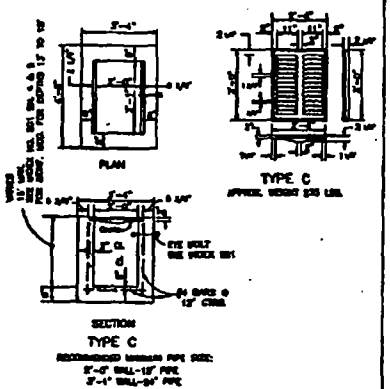
3 / C-3



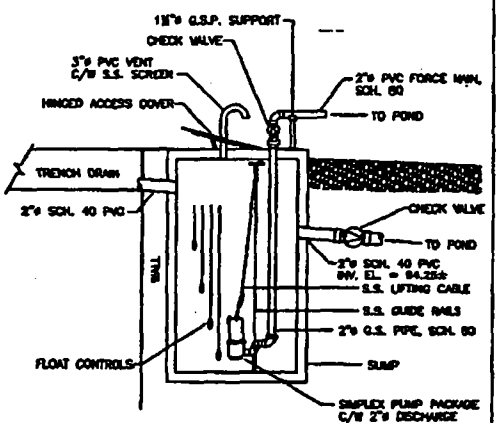
MES-1 CROSS-SECTION (RELOCATED)
SCALE: N.T.S.



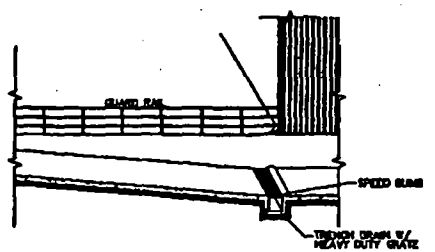
MES-2 CROSS SECTION PER FDOT INDEX 272
SCALE: N.T.S.



LEACHATE CATCH BASIN DETAIL
(FDOT TYPE "C")
SCALE: N.T.S.



STORMWATER SUMP DETAIL
NOT TO SCALE (SCHEMATIC ONLY)



REFER TO STORMWATER SUMP DETAIL AND ARCHITECTURAL DRAWING A-6

PUMP / DRAIN CROSS SECTION
SCALE: N.T.S.

Figure 6 of 6

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

DOCUMENT REUSE

TAFT RECYCLING, INC.
ORANGE COUNTY, FLORIDA

CLASS I AND III WPF
DETAILS AND CROSS SECTIONS

DATE	REVISIONS	REVISED	CHECKED
12/04	RAISE BLEEDER ELEVATION	GRD	DLL

Scott L. Langlois, P.E.
P.E. No. 55662, FL
Registering Business No. 6616
12-23-04

	BY	DATE
DESIGNED	DLL	10/04
DRAWN	GRD	10/04
CHECKED	JED	10/04
QC APPROVAL	DLL	10/04
FILE 0420700D07.DWG		

PROJECT NO. 04-297.001
SCALE AS NOTED
D-3
SHEET OF

Department of
Environmental Protection

Jeb Bush
Governor

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

Colleen Castille
Secretary

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 _____ 200___ 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

Department of
Environmental Protection

Jeb Bush
Governor

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

Colleen Castille
Secretary

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 Land Surveyor licensed in the State of Florida.

_____
Name (please print)

_____
Signature of Professional Engineer

_____
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:

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

Department of
Environmental Protection

Jeb Bush
Governor

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

Colleen Castille
Secretary

ENVIRONMENTAL RESOURCE PERMIT
INSPECTION CERTIFICATION

Permit Number: _____

Project Name: _____

Inspection Date(s): _____

Inspection Results: (check one)

_____I hereby certify that I or my designee under my direct supervision has 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 hereby 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)
Engineer

_____
Signature of Professional

_____
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:

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

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

RECEIVED
JAN 10 2006
Central Dist. - DEP

TRANSMITTAL

To: James Bradner, P.E., Program Manager, Solid and Hazardous Waste
Florida Department of Environmental Protection
3319 Maguire Boulevard, Suite 232
Orlando, FL 32803

From: James E. Golden, P.G.

Subject: Taft Recycling, Inc. Permit Renewal S048-0173968-004 Class I/III Waste Processing Facility, Orange County, Florida

Project No: 04-297.005

Date: 01-9-06

Enclosed please find:

Copies	*Description*
2	Signed/Sealed Engineering Report Cover Pages (Florida P.E.)
2	Signed/Sealed Site Survey (Florida P.E.)

NOTES: As requested, the financial assurance cost estimate in the subject application has been forwarded to Taft Recycling corporate office for funding to comply with the March 2006 update.

We trust this completes the subject application.

Thank you,
Jim Golden

RECEIVED
2006
Central Dist. - DEP

ENGINEERING REPORT AND OPERATIONS PLAN

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

Prepared for:

Taft Recycling, Inc.
148 Baywood Avenue
Longwood, Florida 32750

Prepared by:

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

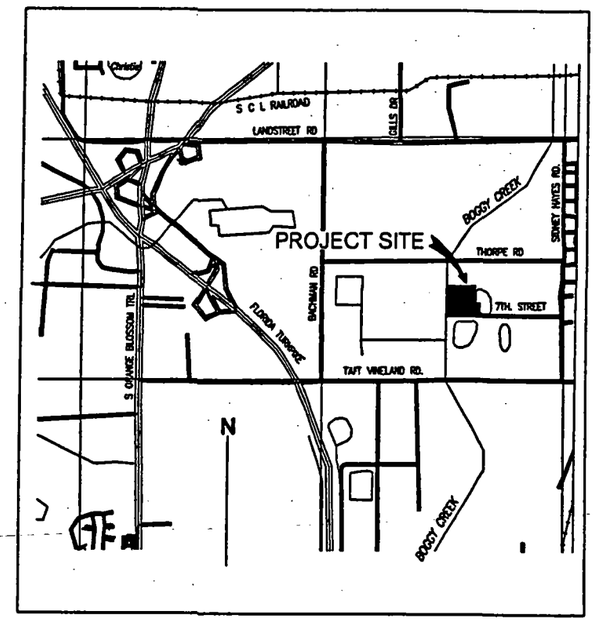
Project No. 04-297.015

December 2005

1/5/06
34364

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

LOCATION MAP



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C-3	EXISTING CONDITIONS
C-4	GRADING AND DRAINAGE PLAN
D-1	DETAIL
D-2	DETAILS AND CROSS SECTIONS

PREPARED FOR

TAFT RECYCLING, INC.

1099 MILLER DRIVE

ALTAMONTE SPRINGS, FL 32701

DATE: AUGUST 2004

PROJECT No. 04-297.001

PREPARED BY:

HSA Golder

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

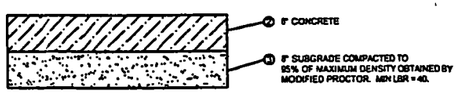
TOTAL SITE AREA 8.92 ACRES

EXISTING CONDITIONS

DESCRIPTION	AREA	
	AC	%
PERVIOUS	4.88	5.25
PAVEMENT	3.29	38.9
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 Gulder
Environmental & Engineering Consultants
225 East Robinson Street
Suite 100
Orlando, Florida
32801
Tel: 407 649-5475
Fax: 407 649-6582

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TAFT RECYCLING, INC.
ORANGE COUNTY, FLORIDA

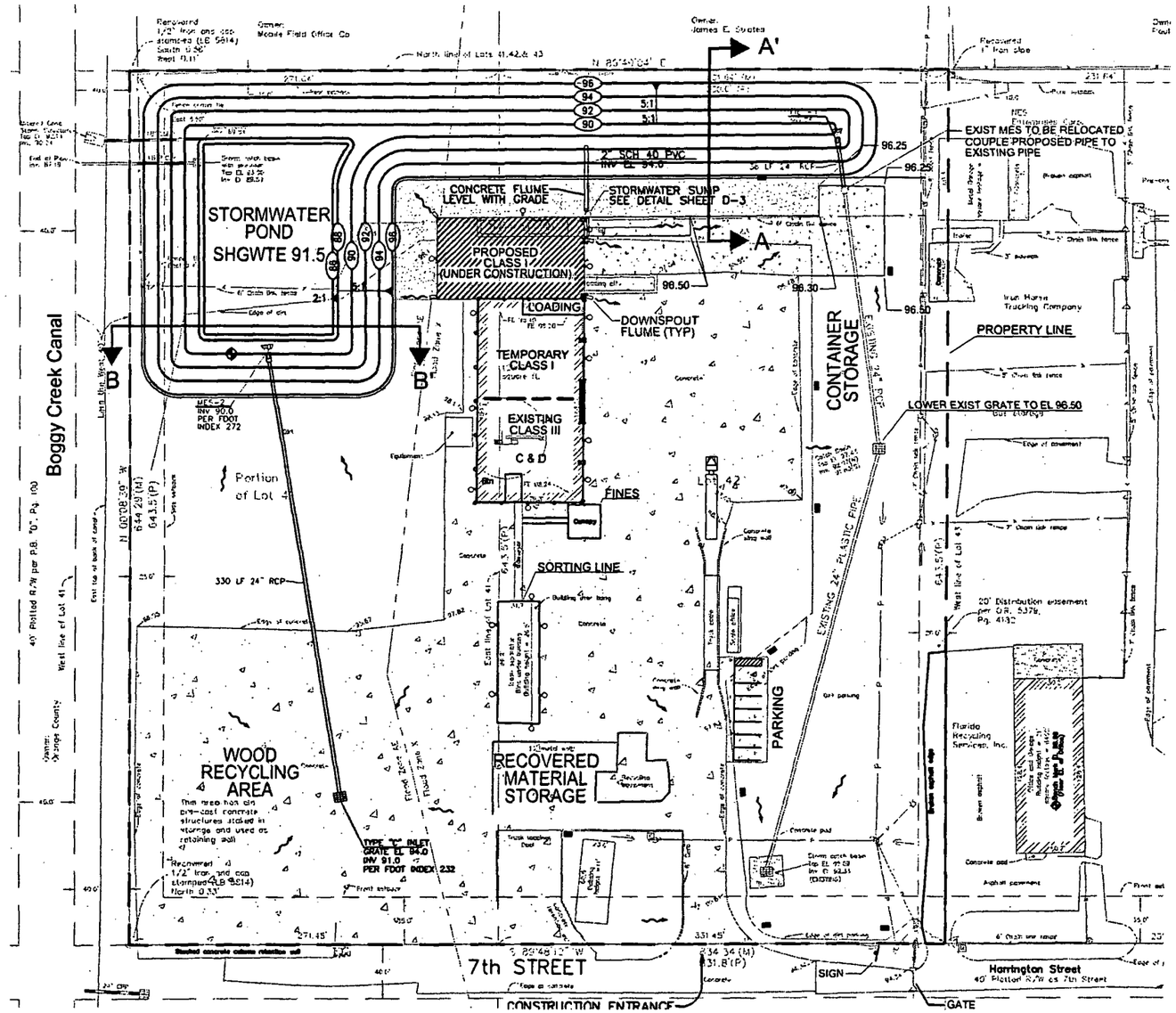
GENERAL NOTES AND SITE CALCULATIONS

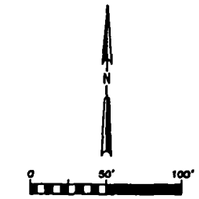
DATE	REVISIONS	REVISED	CHECKED

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

	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
G-1
SHEET 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
- BUILDING UNDER CONSTRUCTION

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

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TAFT RECYCLING, INC.
ORANGE COUNTY, FLORIDA

CLASS I & III WPF PROPOSED SITE PLAN

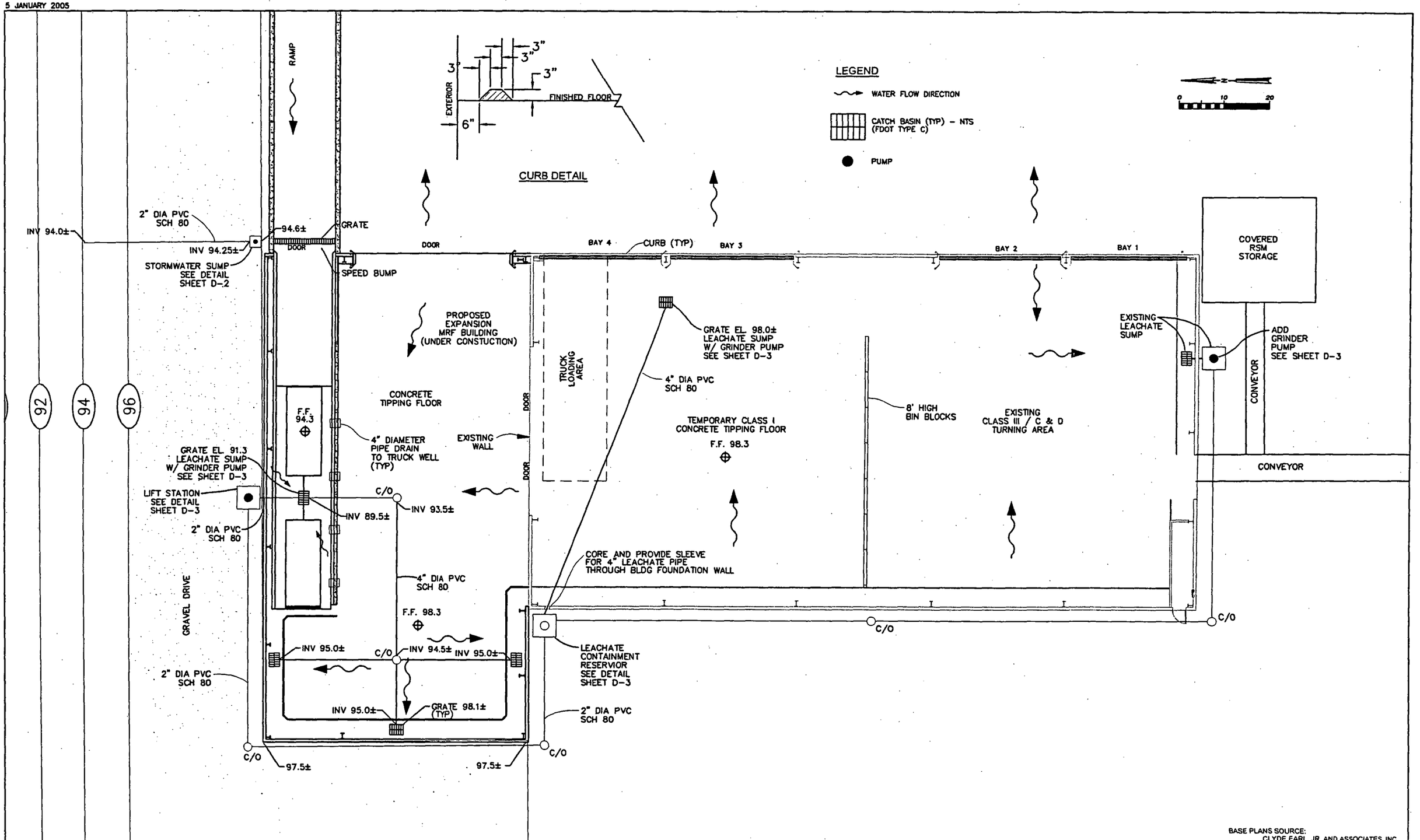
DATE	REVISIONS	REVISED	CHECKED
1/06/05	ADDED TEMPORARY CLASS I	JEG	DLL
9/23/04	PER FDEP COMMENTS	JEG	DLL

David L. Leggett, P.E.
P.E. No. 58667, FL
Engineering Business No. 9915
David L. Leggett
DATE 1-6-05

	BY	DATE
DESIGNED	DLL	7/04
DRAWN	DRD	7/04
CHECKED	DLL	8/04
QC APPROVAL	JEG	
FILE: 0437200101C10.DWG		

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

5 JANUARY 2005



BASE PLANS SOURCE:
CLYDE EARL, JR. AND ASSOCIATES, INC.

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

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TAFT RECYCLING, INC.
ORANGE COUNTY, FLORIDA

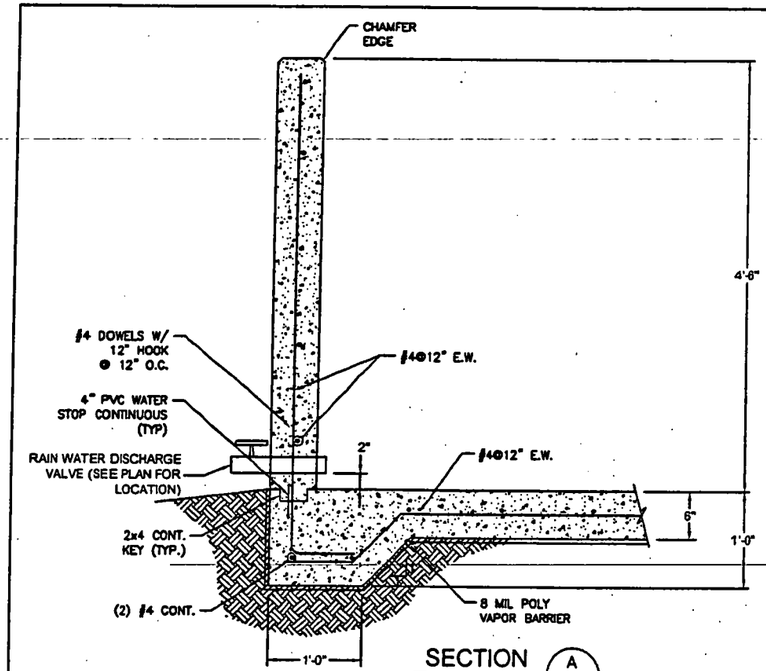
WASTE PROCESSING FACILITY EXPANSION LEACHATE COLLECTION SYSTEM PLAN

DATE	REVISIONS	REVISED	REVIEWED
1/05	EXISTING BUILDING UPGRADES	JEG	DLL

David L. Leggett, P.E.
P.E. No. 58667, FL
Engineering Business No. 9915
David L. Leggett
1-6-05

	BY	DATE
DESIGNED	JEG	10/04
DRAWN	DRD	10/04
CHECKED	DLL	10/04
QC APPROVAL	JEG	10/04

PROJECT NO. 04-297.005
SCALE AS NOTED
C-6A



SECTION A

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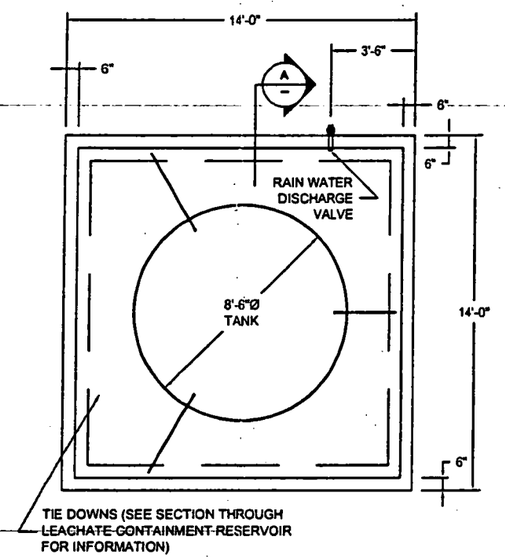
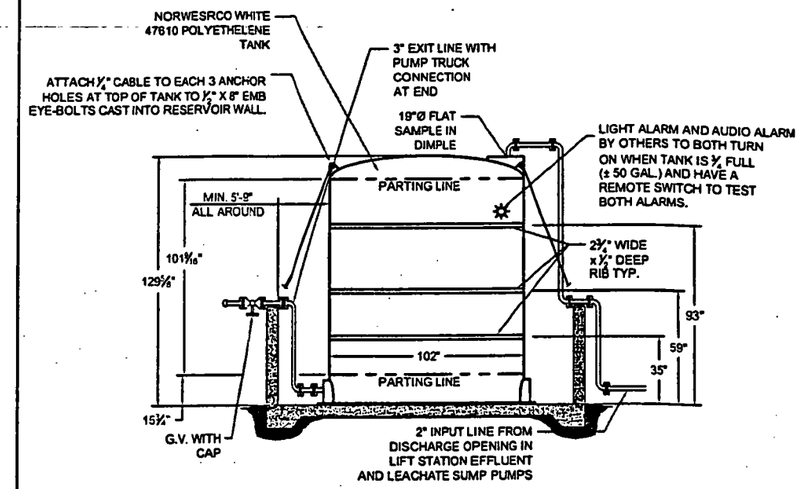


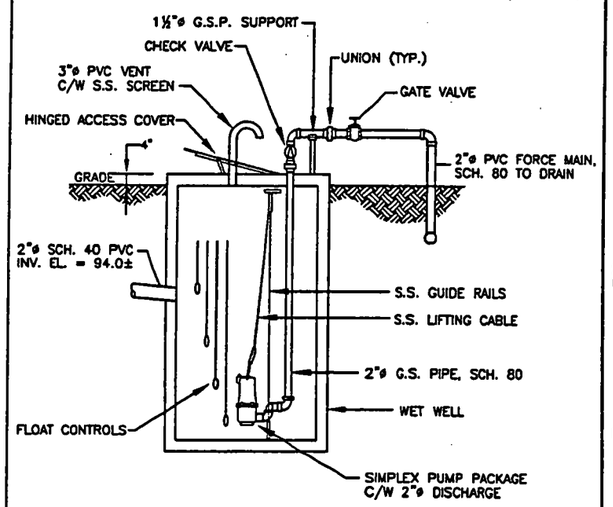
5236 GALLON LEACHATE CONTAINMENT RESERVOIR

SCALE: N.T.S.



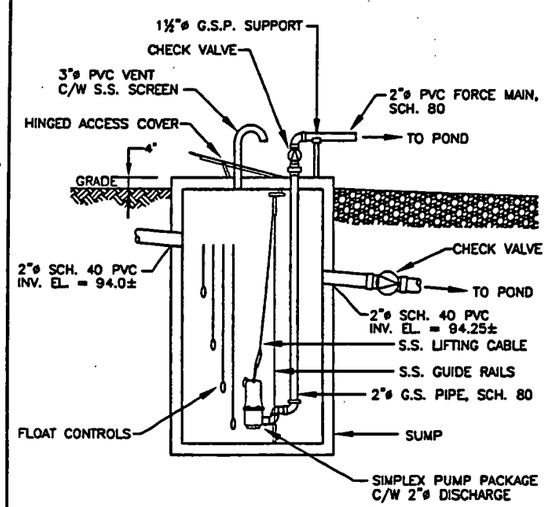
SECTION THROUGH LEACHATE CONTAINMENT RESERVOIR

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 RD 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.

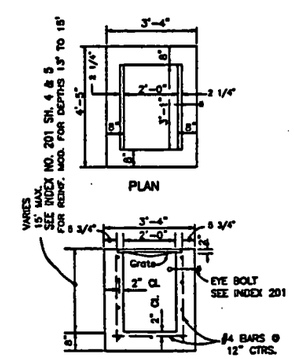
3. THESE DRAWINGS ARE TO BE CONSIDERED AN INTEGRAL PART OF THE SPECIFICATIONS WHICH ACCOMPANY THEM. ANY ITEM OR SUBJECT OMITTED FROM ONE BUT WHICH IS MENTIONED OR REASONABLY IMPLIED IN THE OTHER SHALL NOT RELIEVE THIS TRADE OF RESPONSIBILITY.

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

DRAWING NOTES

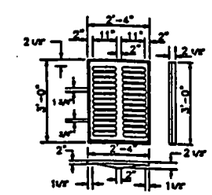
(A) COORDINATE INVERT & MAKE FINAL CONNECTION TO LIFT STATION. FIELD VERIFY EXACT LOCATION AND EXTEND PIPE ACCORDINGLY.

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



TYPE C

RECOMMENDED MAXIMUM PIPE SIZE:
2'-0" WALL-18" PIPE
3'-1" WALL-24" PIPE



TYPE C

APPROX. WEIGHT 235 LBS.

LEACHATE CATCH BASIN DETAIL (FDOT TYPE "C")

SCALE: N.T.S.

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

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000
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TAFT RECYCLING, INC.
ORANGE COUNTY, FLORIDA

CLASS I AND III WPF
DETAILS

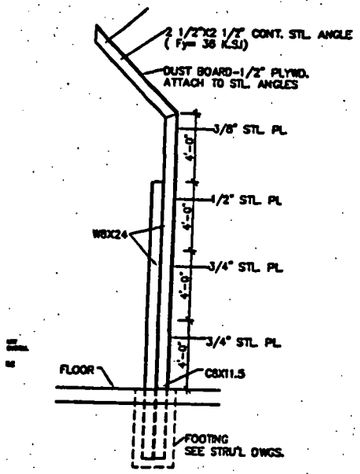
DATE	REVISIONS	REVISED	CHECKED

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

DATE 8-17-04

	BY	DATE
DESIGNED	DLL	8/04
DRAWN	DRD	8/04
CHECKED	JEG	8/04
QC APPROVAL		
FILE: 04297001D01.DWG		

PROJECT NO. 04-297.001
SCALE AS NOTED
D-1
SHEET OF

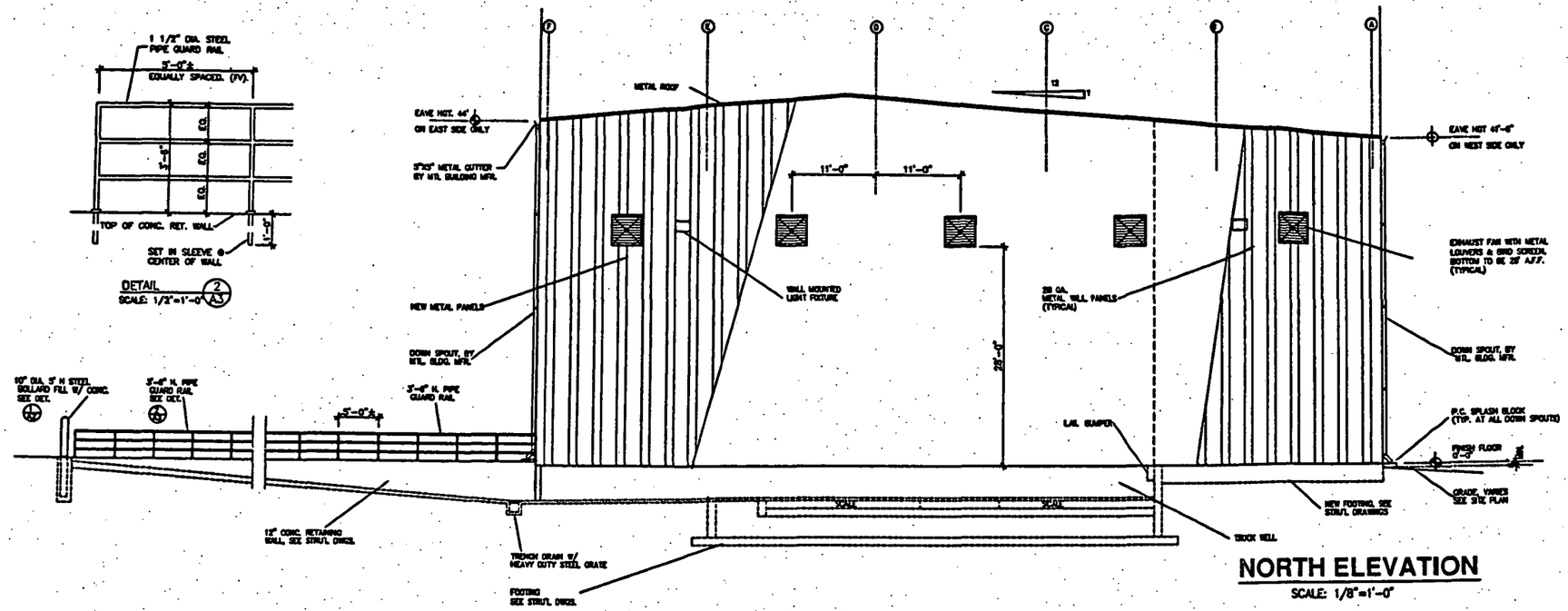


PUSH WALL SECTION

SCALE: 1/4"=1'-0"

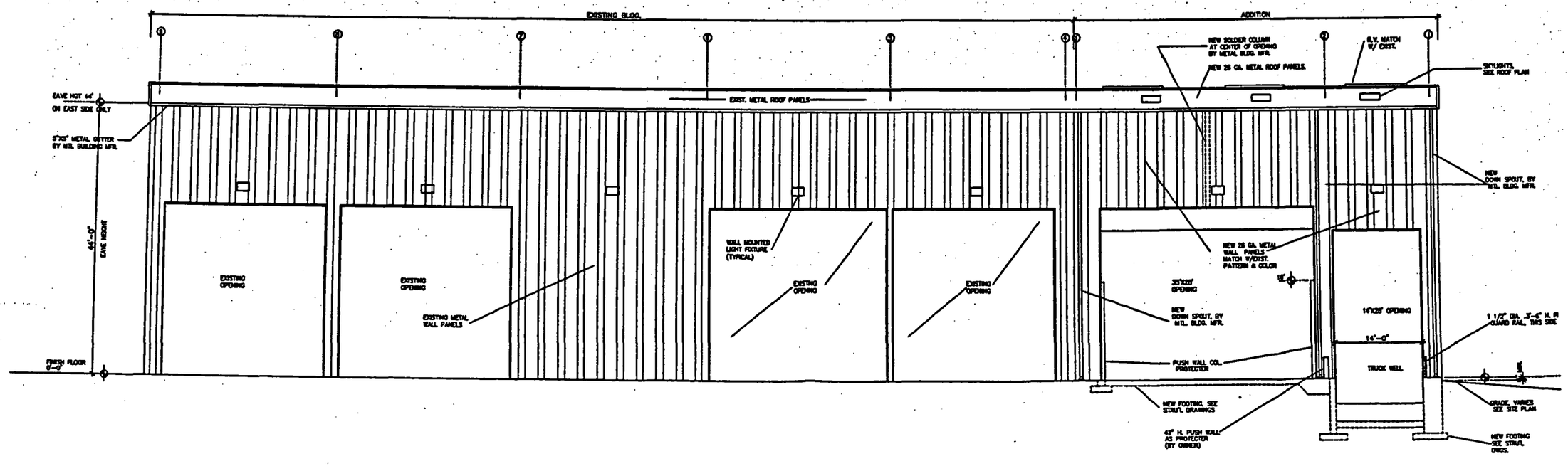
1
A3

DETAIL 2 A3
SCALE: 1/2"=1'-0"



NORTH ELEVATION

SCALE: 1/8"=1'-0"



EAST ELEVATION

SCALE: 1/8"=1'-0"

clyde earls jr. & associates
interior designers, planners, and architects
p.o. box 464, chiloquin springs, o 97213
Member of A.S.I.D., A.S.I.D., R.E.C.I., A.P.A., e.t.c.
PHONE/FAX: (541) 884-2004

TAFT RECYCLING INC.
BUILDING ADDITION
375 SEVENTH STREET
TAFT, FLORIDA

DRAWN:	V.S.
CHECKED:	C.E./D.P.
DATE:	10-21-04
SCALE:	NOTED
JOB NO.:	10-041

ELEVATIONS

SHEET

A 3

OF SHEETS

INDEX TO DRAWINGS

A1	EXISTING FLOOR PLAN
P1	PLUMBING PLAN
P2	PLUMBING DETAILS
M1	MECHANICAL VENTILATION PLAN
M2	FAN SCHEDULE & FAN DETAILS
E1	ELECTRICAL LIGHTING & POWER PLAN
E2	ELEC. POWER RISER & FIXTURE SCHEDULE
E3	LEGEND & ELEC. SPECIFICATIONS

DESIGN NOTES:

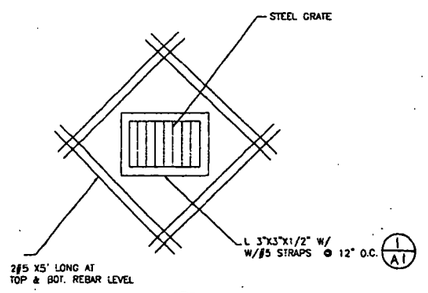
WIND LOADING: 120 MPH, EXPOSURE "C"
IMPORTANT FACTOR = 1
COORDINATE SLAB DEPRESSIONS WITH PLANS
MATERIALS:

CONC.	4000 PSI MIN.
RE-BAR	ASTM A615, GRADE 60 & 40
WWF	ASTM A185
MASONRY	ASTM C-90

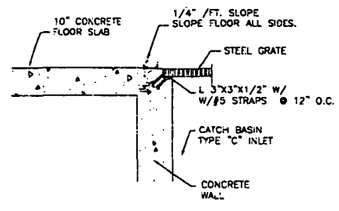
SOIL BEARING ASSUMED 3000 PSF.
SEE SOIL INVESTIGATION REPORT BY YOVAISH SERVICE DATED AUGUST 19, 2004.
SOIL PREPARATION TO CONFORM ABOVE MENTIONED REPORT.

OMISSIONS AND REPAIRS:

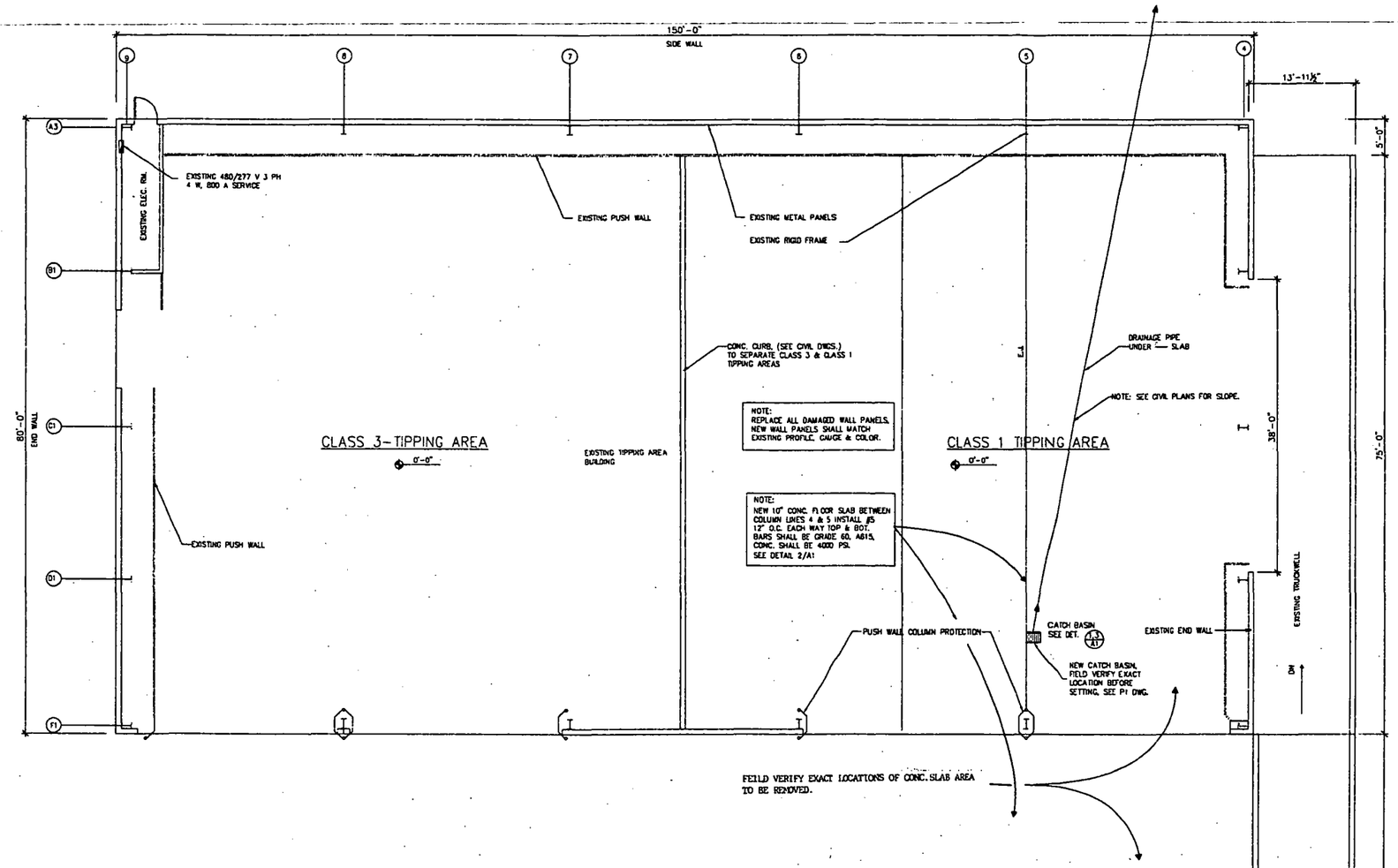
WHERE DOWELS ARE MISSED, DRILL 3/4" X 5" DEEP MIN. HOLE & GROUT WITH "SIMPSON ET17 EPOXY. DOWEL LOCATION MAY BE ONE CELL OFF FROM AREA SHOWN ON PLAN.

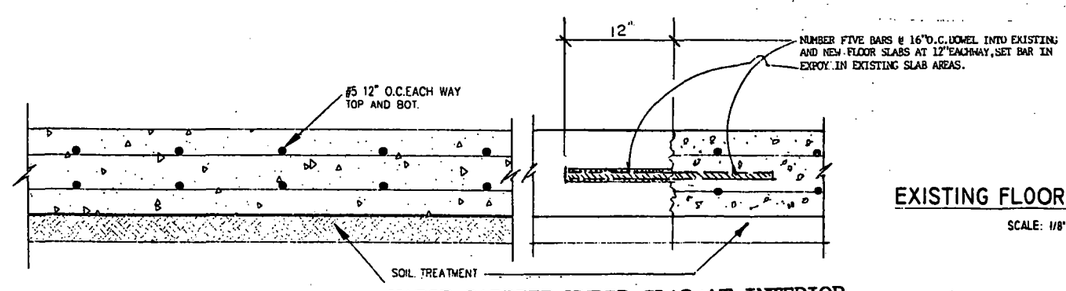


3 A1 **PLAN VIEW DETAIL**
SCALE: 1/2"=1'



EDGE CONDITION AT LEACHATE BASIN TYPE "C" 1 A1
N.T.S.





VAPOR BARRIER UNDER SLAB AT INTERIOR

2 A1 **DETAIL**
SCALE 1 1/2"=1'

EXISTING FLOOR PLAN
SCALE: 1/8"=1'-0"
NORTH

DESTROY ALL PRINTS PREVIOUSLY ISSUED
JAN 06 2005

REVISIONS: BY
REVISIONS: BY ARCHITECT

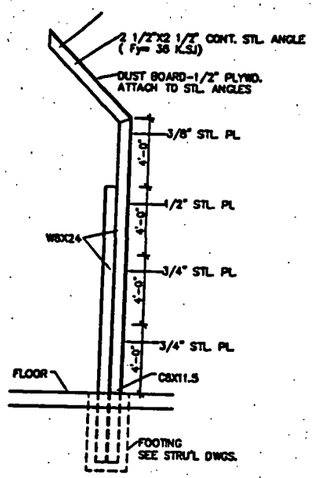
David earle Jr, & associates
architecture design, planners, and architects
P.O. Box 521, Altamonte springs, fl 32715
Registered architect, A.S.I.D., S.B.C.C.I., A.P.A., e.a.i.
phone/fax: (407) 834-2584

SEVENTH STREET PROPERTIES
375 SEVENTH STREET
TAFT, FLORIDA

DRAWN:	V.S.
CHECKED:	C.E./D.P.
DATE:	12-30-04
SCALE:	NOTED
JOB NO.:	17-04

EXISTING FLOOR PLAN

SHEET
A1
OF SHEETS



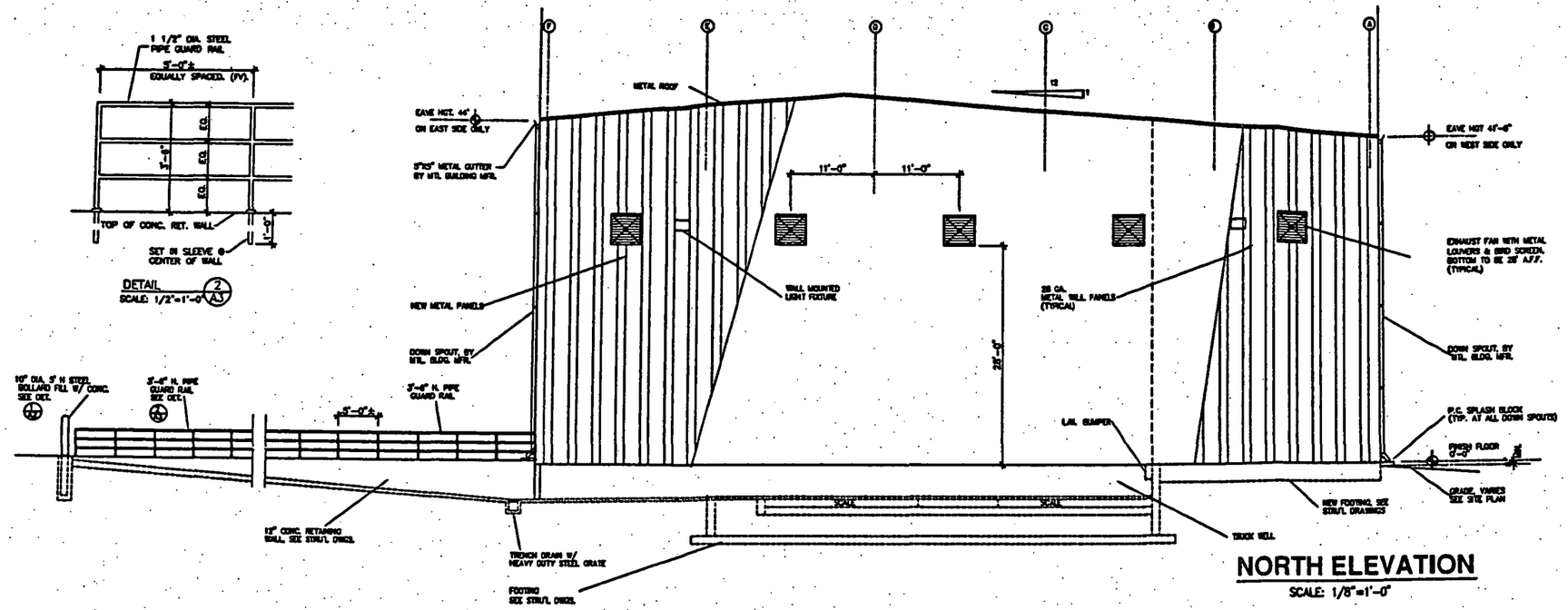
PUSH WALL SECTION

SCALE: 1/4"=1'-0"

1 / A3

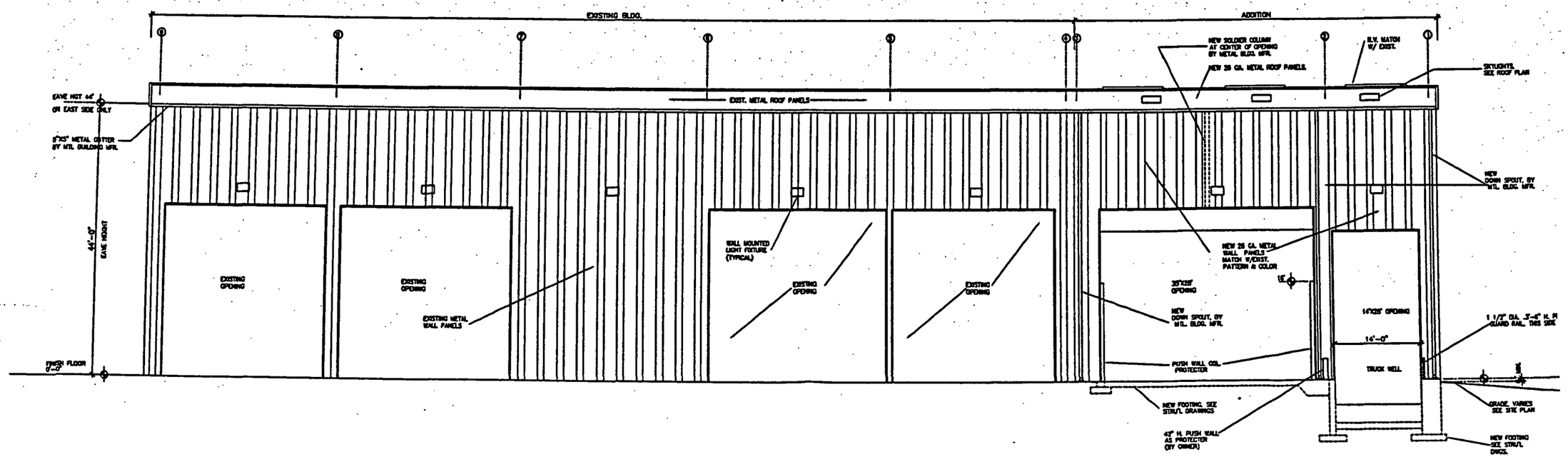
DETAIL 2 / A3

SCALE: 1/2"=1'-0"



NORTH ELEVATION

SCALE: 1/8"=1'-0"



EAST ELEVATION

SCALE: 1/8"=1'-0"

clyde earls jr. & associates
interior designers, planners, and architects
p.o. box 653, chiemonte springs, fl 32715
Member of: A.I.I.D., A.S.I.D., B.R.C.C.I., A.P.A., e.t.c.
FRIDAY/FAX: (407) 834-0004

TAFT RECYCLING INC.
BUILDING ADDITION
375 SEVENTH STREET
TAFT, FLORIDA

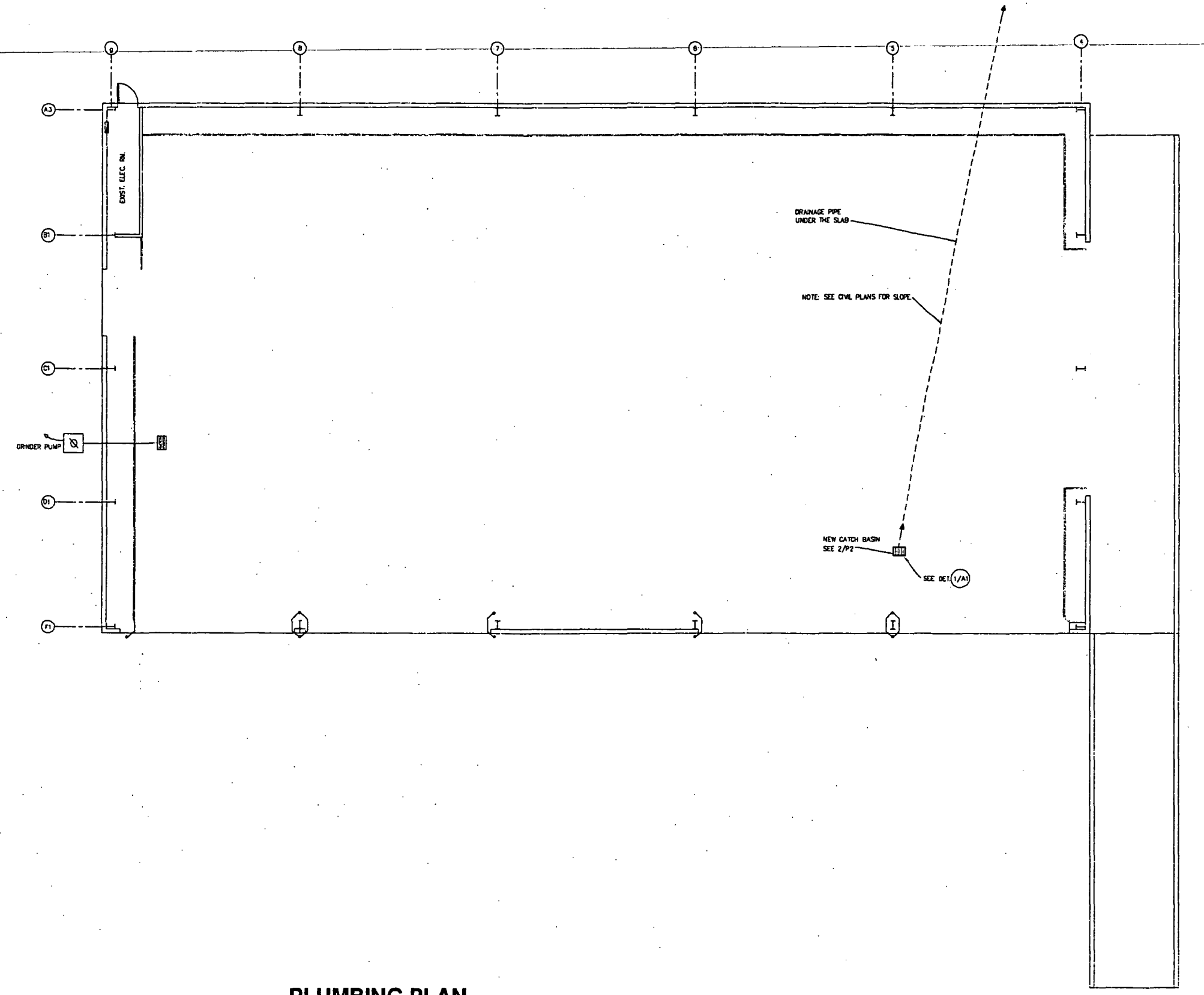
DRAWN:	V.S.
CHECKED:	C.E./D.P.
DATE:	10-21-04
SCALE:	NOTED
JOB NO.:	10-041

ELEVATIONS

SHEET

A 3

OF SHEETS



PLUMBING PLAN

SCALE: 1/8"=1'-0"

REVISIONS: BY

REVISIONS: BY

BY ARCHITECT

clyde eanes jr. & associates
interior design, planning and consultants
p.o. box 4757, altamonte springs, fl 32716
member of I.F.D.A., A.S.I.D., S.E.C.C.I., A.P.A., C.M.I.
(407) 834-2584
LICENSED/FBE

SEVENTH STREET PROPERTIES
375 SEVENTH STREET
TAFT, FLORIDA

DRAWN:	V.S.
CHECKED:	C.E./D.P.
DATE:	12-30-04
SCALE:	NOTED
JOB NO.:	17-04

PLUMBING PLAN

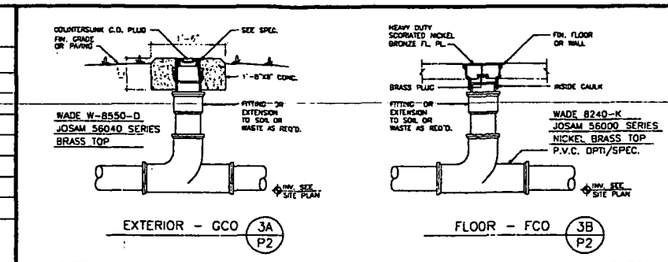
SHEET

P1

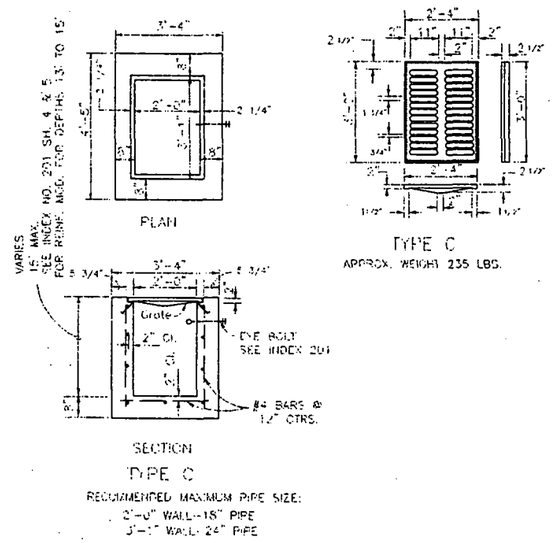
OF SHEETS

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE TYPE	MANUFACTURE & MODEL NO.	CONNECTIONS WASTE	CONNECTIONS CW	CONNECTIONS HW	REMARKS
CB	CATCH BASIN	TYPE "C"	4"			



TYP. CLEAN-OUT DETAILS 3 P2
N.T.S.



LEACHATE CATCH BASIN DETAIL
(TYPE "C" PER FDOT INDEX 232) 2 P2
SCALE: N.T.S.

GENERAL PLUMBING NOTES:
INTENT

1. ALL WORK SHALL CONFORM WITH ALL LOCAL, STATE, FEDERAL ORDINANCES AND BUILDING CODES COVERING THE INSTALLATION OF THE PLUMBING SYSTEM. IF WORK AS LAID OUT, INDICATED OF SPECIFIED IS CONTRARY TO OR CONFLICTS WITH LOCAL ORDINANCES, BUILDING CODES AND REGULATIONS, THE CONTRACTOR SHALL REPORT IN WRITING TO THE ARCHITECT/ENGINEER BEFORE SUBMITTING A BID. THE ARCHITECT/ENGINEER WILL THEN ISSUE INSTRUCTIONS AS HOW TO PROCEED.
2. THE DRAWINGS ARE TO BE CONSIDERED DIAGRAMMATIC, NOT NECESSARILY SHOWING IN DETAIL OF SCALE ALL OF THE MINOR ITEMS, UNLESS SPECIFIC DIMENSIONS ARE SHOWN. THE STRUCTURAL, ARCHITECTURAL AND SITE CONDITIONS SHALL GOVERN THE EXACT LOCATIONS. CONTRACTOR SHALL FOLLOW DRAWINGS IN LAYING OUT WORK. CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACES IN WHICH WORK WILL BE INSTALLED AND MAINTAIN MAXIMUM HEADROOM, AND SPACE CONDITIONS AT ALL POINTS. WHERE HEADROOM, OR SPACE CONDITIONS APPEAR INADEQUATE, ARCHITECT/ENGINEER SHALL BE NOTIFIED BEFORE PROCEEDING WITH INSTALLATION. THIS CONTRACTOR SHALL, WITHOUT EXTRA CHARGE, MAKE FIELD MODIFICATION IN LAYOUT AS NEEDED TO PREVENT CONFLICT WORK OF VARIOUS TRADES OF PROPER EXECUTION OF THE WORK.
3. EXAMINE ALL DRAWINGS CAREFULLY PRIOR TO SUBMITTING A BID. CONTRACTOR WILL BE REQUIRED TO FURNISH, INSTALL AND OR CONNECT WITH APPROPRIATE SERVICES ALL PLUMBING ITEMS SHOWN ON ANY OF THE ARCHITECTURAL, AIR CONDITIONING ELECTRICAL AND SPRINKLER DRAWINGS WITHOUT ADDITIONAL COST TO THE OWNER. IF DISCREPANCIES, CONFLICTS, INTERFERENCES OF OMISSIONS OCCUR BETWEEN DRAWINGS, NOTIFY IN WRITING TO THE ARCHITECT/ENGINEER IN AMPLE TIME TO PERMIT REVISIONS BEFORE THE BIDS ARE SUBMITTED.
4. INSTALL MATERIALS AND EQUIPMENT IN A NEAT AND FIRST CLASS WORKMANLIKE MANNER. THE OWNER RESERVES THE RIGHT TO DIRECT REMOVAL AND REPLACEMENT OF ITEMS WHICH, IN HIS OPINION, DO NOT PRESENT A NEAT AND WORKMANLIKE APPEARANCES. REMOVAL AND REPLACEMENT IS TO BE DONE IMMEDIATELY WHEN DIRECTED BY THE OWNER IN WRITING, AT THE SOLE EXPENSE OF CONTRACTOR.
5. START OF WORK BY CONTRACTOR SHALL BE CONSIDERED AS ACCEPTANCE BY HIM OF ALL CLAIMS OR QUESTIONS AS TO SUITABILITY OF THE WORK OF OTHER TRADES OR OTHER CONTRACTORS TO RECEIVE HIS WORK. THIS CONTRACTOR SHALL REMOVE AND REPLACE, AT HIS EXPENSE, ALL PLUMBING WORK WHICH MAY HAVE TO BE REMOVED BECAUSE OF INTERFERENCE WITH OTHER TRADES.
6. THIS CONTRACTOR SHALL PAY ALL INSURANCE, FEES, PERMITS, ASSOCIATED DUES, ROYALTIES AND TAXES OF WHATEVER NATURE SHALL APPLY TO THIS WORK. HE SHALL ALSO PAY ALL INSPECTION FEES AS MAY BE REQUIRED BY LAW OR ORDINACE AM SHALL KEEP THE OWNER HARMLESS FROM ANY DAMAGE AND EXPENSE ARISING FROM ANY VIOLATION OF THE LAWS, RULES OF ORDINANCES.
7. PROVIDE MEANS "FURNISH AND INSTALL".
8. DO A COMPLETE JOB, EVERYTHING CONNECTED, READY FOR USE.
9. SHOP DRAWINGS: THIS CONTRACTOR SHALL FURNISH THE ENGINEER WITH CUT SHEETS & SHOP DRAWINGS OF EQUIPMENT PRIOR TO PURCHASE FOR APPROVAL.
10. AT COMPLETION OF JOB THE CONTRACTOR SHALL GIVE THE OWNER AN AS-BUILT SET OF REPRODUCIBLE REPRO SHOWING THE EXACT INSTALLATION. AS-BUILTS WILL NOT BE REQUIRED IF INSTALLATION IS IN ACCORDANCE WITH ENGINEER'S DRAWINGS.
11. MATERIALS

A) SCHEDULE 40 P.V.C. D.W.V. PIPE SHALL BE USED WHEN NON EXPOSED TO DAMAGE ON ALL SOIL, WASTE AND VENT LINES ALL DRAIN LINES INSIDE AND STRUCTURES AND UNDER SALB 12" UNDER AND BUILDING SEWERS WHEN EXPOSED TO DAMAGES SHALL BE HUB-LES CAST IRON SOIL PIPE.

B) FOR STORM DRAIN LINES INSIDE STRUCTURES & UNDER SLABS (19" DIAMETER OR LARGER) AND WATER SERVICE TO BUILDING SHALL BE DUCTILE IRON PIPE CENTRIFUGALLY CAST IN MOLDS OR SAND LINES MOLDS WITH WALL THICKNESS CLASS 50.

PLUMBING NOTES:

1. ALL PLUMBING SHALL BE IN ACCORDANCE WITH LATEST SBCC PLUMBING CODE AND ALL APPLICABLE STATE, COUNTY, AND LOCAL CODES. F.B.C. 2001 ED.
2. ALL PER FLA. PLUMBING CODE 2001 ED.

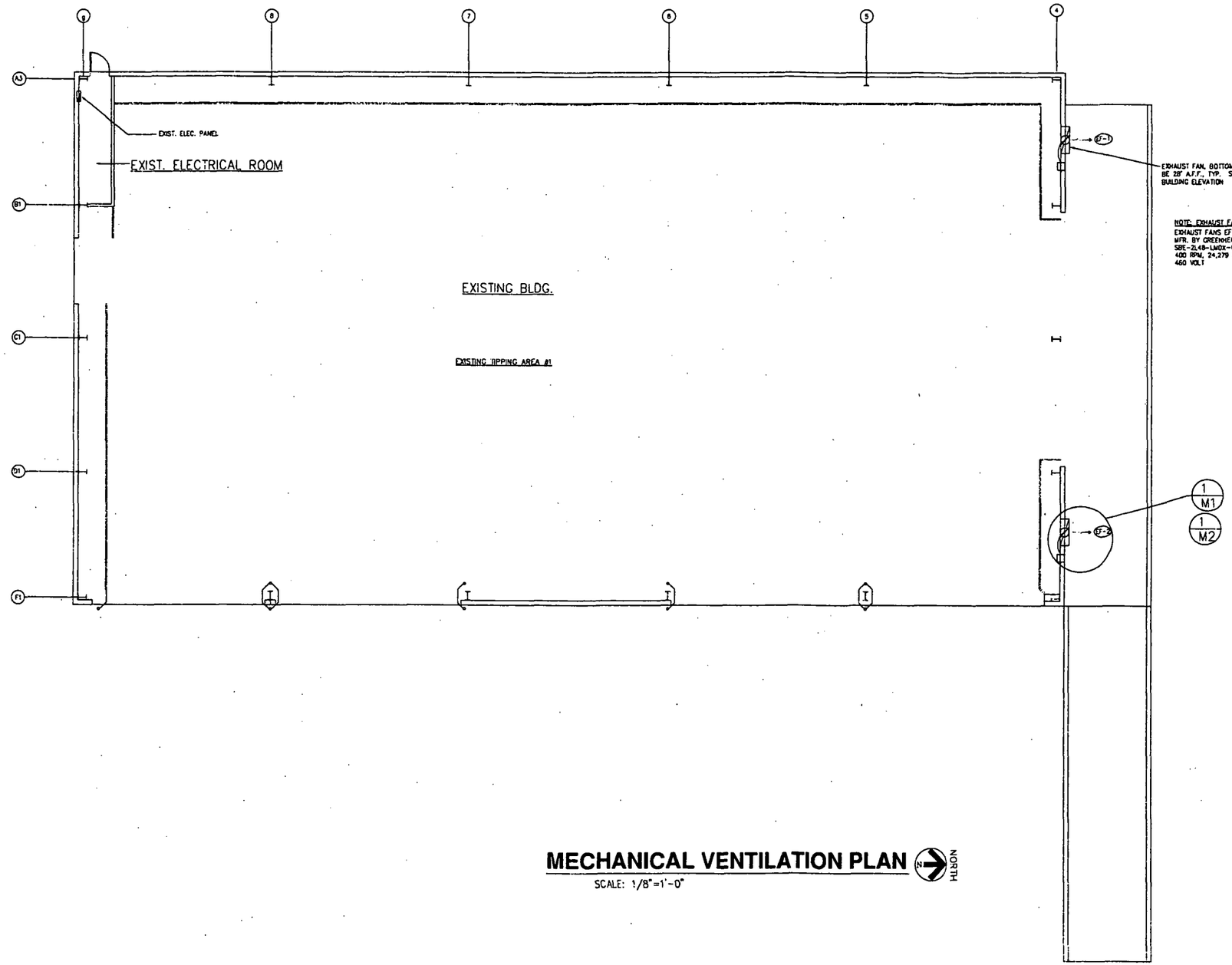
BY	REVISIONS
BY ARCHITECT	

BY	REVISIONS

Clyde eanis jr. & associates
architect, planners, and architects
2 diamonds springs, fl 32715
A.I.A., A.S.I.D., S.I.C.C.I., A.P.A., e.a.i.
PHONE/FAX (407) 834-2564

SEVENTH STREET PROPERTIES
375 SEVENTH STREET
TAFT, FLORIDA

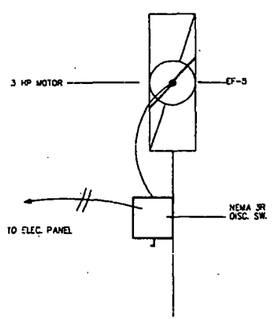
DRAWN:	V.S.
CHECKED:	C.E./D.P.
DATE:	12-30-04
SCALE:	NONE
JOB NO.:	17-04
SHEET	RISER DIAG. DETAILS & NOTES P2
OF	SHEETS



MECHANICAL VENTILATION PLAN

SCALE: 1/8"=1'-0"

NORTH



1/M1 DETAIL AT EXH. FAN

N.T.S.

REVISIONS: BY PROJECT

REVISIONS: BY

Clyde Morris jr. & associates
architects/engineers, planners, and architects
P.O. Box 453, Altamonte Springs, fl 32715
AIA, P.E., A.S.L.A., A.S.I.D., S.D.C.C.I., A.P.A., c.s.i.

SEVENTH STREET PROPERTIES
375 SEVENTH STREET
TAFT, FLORIDA

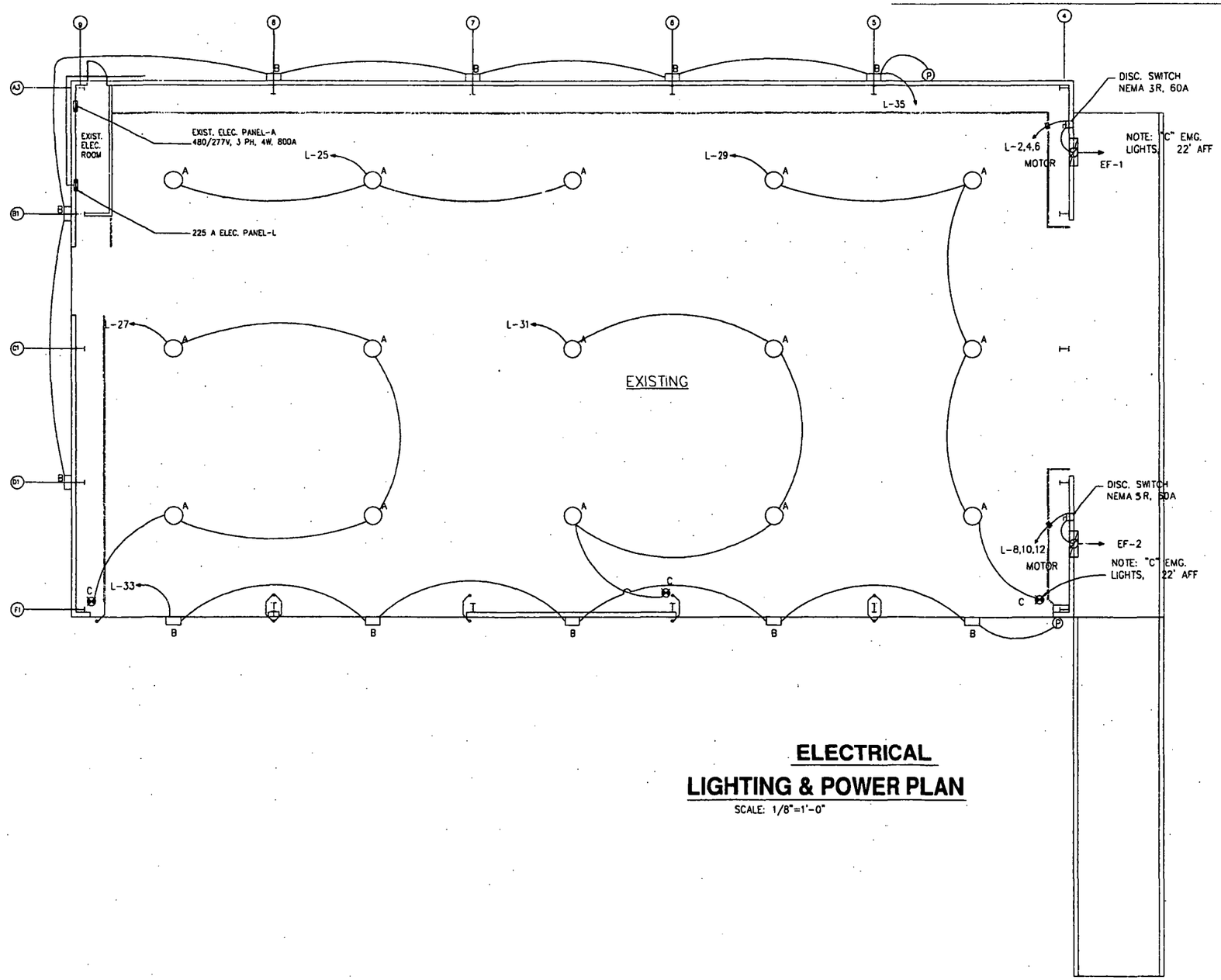
DRAWN:	V.S.
CHECKED:	C.E./D.P.
DATE:	12-30-04
SCALE:	NOTED
JOB NO.:	17-04

MECHANICAL VENTILATION PLAN

SHEET

M1

OF SHEETS



ELECTRICAL
LIGHTING & POWER PLAN

SCALE: 1/8"=1'-0"

BY ARCHITECT
REVISIONS:
BY
REVISIONS:
BY

clyde earls jr. & associates
consulting engineers, planners, and architects
no. port st. st. augustine, florida 32715
registered: U.L.A., A.S.I.D., S.B.C.I., A.P.A., c.a.d.
phone/fax: (407) 824-2584

SEVENTH STREET PROPERTIES
375 SEVENTH STREET
TAFT, FLORIDA

DRAWN:	V.S.
CHECKED:	G.E./D.P.
DATE:	12-30-04
SCALE:	NOTED
JOB NO.:	17-04

ELECTRICAL LIGHTING PLAN

SHEET

E1

OF SHEETS

LEGEND

PANELS & POWER

- POWER PANEL BOARDS SEE PANEL SCHEDULES
- LIGHTINGS PANEL BOARD
- SM — TOGGLE TYPE MANUAL MOTOR CONTROLLER
- NON-FUSIBLE DISCONNECT SWITCH
- FUSIBLE DISCONNECT SWITCH
- T — DRY TYPE TRANSFORMER
- M — WATTHOUR/DEMAND METER
- FUSED COMBINATION MOTOR STARTER W/SIZE AS REQ.
- EF — EXHAUST FAN
- SS — SURGE SUPPRESSER
- SHUNT TRIP DEVICE
- WIRE CONCEALED "EMT"
- WIRE EXPOSED CONDUIT

MISCELLANEOUS

- AFF — ABOVE FINISH FLOOR
- WP — WEATHERPROOF
- T-1 — TRANSFORMER
- P — WATER PROUF PHOTO CELL
- SD — SMOKE DETECTOR

SECTION 16010 GENERAL PROVISIONS – ELECTRICAL

1.01 Scope of Work:

Work included under this division shall include all materials, labor and auxiliaries required to install a complete and properly operating electrical system as indicated on the drawings and as specified herein.

1.02 Codes and Standards:

A. National Electric Code
B. Lief Safety Code
C. All local codes and ordinances

1.03 Substitutions:

Any items other than those specified shall be submitted in writing to the engineer a minimum of ten (10) days before bid date. If approved, these items shall appear in an addendum to the specifications prior to bid date. If not submitted 10 days prior to bid date, the contractor shall bid the items specified.

1.04 Special Requirements:

A. Appurtenances and Accessories: This contractor shall furnish all appurtenances and accessories necessary for a complete and properly operating systems.

B. Layout of Work: Drawing are diagrammatic. Correlate final equipment locations with governing architectural and structural drawings. Lay out work before installation so that all trades may install equipment in space available. Provide coordination as required to finish in neat and workmanlike manner.

C. Investigation or Site: Check site and existing conditions thoroughly before bidding. Advise architect of discrepancies or questions noted.

D. Coordination: Provide all required coordination and supervision where work connects to or is affected by others' work.

E. Excavation and Backfilling: The contractor shall provide all labor and material for necessary excavating and backfilling for the installation of his system, including any paving repairs necessary.

F. Protection and Clean-up: Suitably protect all equipment furnished under this division during construction. Restore all damaged surfaces and items to "like new" condition before a request for final acceptance.

G. Technical Information Brochure:
1. Submit before start of construction or within ten (10) days after award of contract. Each brochure shall consist of an adequately sized hard-cover, 3-ring binder, 8-1/2: x 11" sheets. Provide correct designation on outside cover and on ends of brochures.

H. Record Drawings: The contractor shall keep two (2) sets of blueline prints on the job, clean and neatly marked with red pencil. The contractor shall daily mark these prints to show the actual locations if where items are installed. this contractor shall be marked to show correct date. At completion of project, this contractor shall sign both sets of prints certifying that these prints show actual record conditions and turn them over to the architect. One set shall remain in the architect's record file and one set shall be given to the owner.

I. Prefinal Inspection: When this contractor is completed with project he shall request a prefinal inspection from the engineer. The engineer shall make a prefinal inspection and prepair a punch list of incomplete items.

J. Final Inspection and Owner's Inspection: After the items from the prefinal inspection have been completed, this contractor shall submit a request for a final inspection and owner's instructions in writing to the architect,. A meeting will be arranged at the job site be- the the architect, engineer, general contractor, and owner for a final walk-throught and owner's operating instructions.

K. System Test: The contractor shall test the system for ground continuity shorts, polarity, and wiring errors upon completion of the project and prior to calling for an inspection by the engineer.

1.05 Materials and Workmanship:

A. All materials supplied and installed on this protect shall be new and shall be approved by the Underwriter's Laboratories, Inc. Defective materials damaged during installation shall be replaced or repaired subject to the architect's or engineer's approval.

B. All work shall be performed in neat workmanlike manner subject to the architect's or engineer's approval.

C. The contractor shall field-verify by inspection of the equipment nameplates the electrical characteristics of said equipment are in fact compatible with the circuit breaker, wire and conduit distribution as indicated. The contractor shall notify the engineer immediately of any deviation of electrical characteristics or equipment incompatibility with the system as indicated on the drawings. The cost of any repiler or rework of any equipment installed which is found to be in violation of the electrical code shall be incurred by this contractor.

SECTION 16400 ELECTRICAL

PART I – GENERAL

1.01 Scope of Work:

The work covered this section of Specifications consists of furnishing all materials, labor and equipment, and performing all work for the complete installation of electrical systems described herein and as shown on the drawings.

1.02 Work Included:

The work to be furnished and installed in this section of the Specifications is in general (but nit limited to) the following list:

PART II – PRODUCTS AND MATERIALS

2.01 Panel Board – Sq. 'D' NQO plug in C/B type, in NEMA 1 enclosure of voltage, phase, as shown on drawings.

2.02 Lighting Fixtures – shall be as shown in the lighting fixture schedule on the drawing.

2.03 Disconnect Switches:

A. Disconnect Switches: Shall be general duty type and or the size and type noted on the drawings and-or required by the National Electric Code. All switches shall be permanently, neatly legible, and conspicuously marked to indicate the size and type of fuse required for replacement purposes.

B. Fuses: Provide two (2) complete sets of fuses for all switches requiring fuses. Install one (1) set and deliver the second set to the owner with proper identification. All fuses shall be the BUSS type "KTN" as specified. All fuses not so specified shall be element "Fusetron".

2.04 Nametags:

For all disconnect switches, panelboards, motor starters, each component of switchboards and other items of electrical equipment, including spares, provide black bax-o-lite nametags engraved with white letters. Tags shall be applied with sweetmetal screws. Continuous roll type nametages applied with adhesive will not be acceptable. Designation on the labels will be the same as that shown on the progress drawings.

2.05 Wiring Devices:

Device Plate: All device plates shall be as manufactured by Arrow-Hart, Bryant, Foss and Seymor, General Electric and Hubbell.

2.06 Raceway Systems:

A. Race ways as shown on the drawings are partly diagrammatic, however, the contactor shall run the conduit in general where shown on the drawings in straight. Exposed raceways shall run parallel or at right angles to building lines.

B. All raceways shall be concealed unless specifically permitted otherwise. Concealed raceways shall be run in a direct line with long sweep bends and offsets. Exposed raceways shall run parallel or at right angles to building lines.

C. Raceway ends shall be capped with a metal fitting to prevent entrance of foreign material during construction.

D. Where required to suit field conditions, contractor shall shift the location of raceway runs from the location shown on the drawings at no increase in cost to the others.

E. All underground service entrance feeders to panels and branch conduits shall be installed in schedule 40 PVC conduit buried 24" deep under grade of paving and buried 12" deep under slabs.

F. All aboveground service entrance feeders to panels shall be right galvanized conduit or type PVC conduit.

G. All branch circuits run above the ceiling or in wall shall be type EMT conduit or type MC cable. MC cable may also be used for final connections to light fixtures and equipment. All EMT fittings shall be DIE cast set screw.

H. Connection to motors or vibrating equipment shall be made with not less than 12" of flexible zinc-coated steel conduit. Flexible conduit shall be liquid-tight in wet or damp locations.

I. Raceways shall be kept clear of plumbing fixtures to facilitate future repair or replacement of said fixtures without disturbing wiring. Except where it is necessary for control purposes, all raceways shall be kept away from items producing heat.

J. Raceways shall be run from outlet to outlet as shown on the drawings.

K. Exterior underground raceways shall be installed 24" minimum below the finished grade line.

L. Raceways shall run in neat and workmanlike manner and shall be properly supported with approved conduit clams, hanger rods, and structural fasteners. Tying with wire is not approved. All raceways, except those from surface mounted switches, outlets boxes, or panels, shall be run concealed from view. Exposed raceways shall be supported with clamp fasteners with toggle bolts on hollow walls, and with lead expansion shields on masonry. Rigid steel box connections shall be made with double locknuts and bushings. Transition from rigid conduit or EMT to PVC shall be made at outlet box only. PVC shall not be stubbed above floor from underground in combustible walls.

M. Outlets shall be mounted so that covers and plates will finish flush with finished surfaces without the use of shims or mats. Plates shall not support wiring devices. Gang switches with common plate where two or more are indicated in the same location. Wall mounted devices for different systems (switches, thermostats, etc.) shall be coordinated for symmetry when located near each other on the same wall.

Height of wall outlets to bottom above finish floors shall be as follows, unless specifically noted otherwise. Verify with architectural plan and shop drawings before installing.

Thermostats	- - - 4'-0"
Light Switches	- - - 4'-0"
Receptacles	- - - 1'-4" (unless noted otherwise)
Power & Lighting Panels	- - - 6'-6" (top of panel)

2.07 Grounding System:

In general, all new electrical equipment (metallic conduit, motor frames, panelboards, etc.) and main swichnorad shall be bonded together with a green insulated system grounding conductor in accordance with specific rules of article 250 of the NEC. Bonding conductor through the raceway system shall be continuous from main switch ground bus to panel ground bar or each panelboard to each branch circuit outlet. System shall be grounded at main switch equipment with copper conductor with sizes as shown on the drawings.

PART III – EXECUTION

3.01 Testing::

The electrical contractor shall be responsible for testing all wiring circuits, Proper connection prior to calling for an inspection.

3.02 Guarantee:

This contractor shall provide the owner with certification of guarantee for one (1) year (including labor and materials) on all equipment.

BY	REVISIONS:	BY ARCHITECT
BY	REVISIONS:	

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SEVENTH STREET PROPERTIES
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LEGEND AND ELECTRICAL SPECIFICATIONS

SHEET

E3

OF SHEETS