

SPRINGSTEAD ENGINEERING INC

Consulting Engineers Planners Surveyors

FACILITY FILE SUMTER COUNTY
SUMTER COUNTY COMPOSTING
FACILITY/LANDFILL

727 S 14TH ST
P O BOX 448
LEESBURG FLA 32749-0448
(904) 787 1414



P O BOX 1448
BUSHNELL FLA 33513 1448
(904) 793 3639

November 20 1986

Nicholas Bruno Env Spec II
State of Florida
Department of Environmental Regulation
7601 U S Highway 301 North
Tampa Florida 33610

RE Sumter County Landfill
C-103

Dear Mr Bruno

4060C00072 W

Please find enclosed six (6) copies of the Application For Permit To Operate and Modify A Solid Waste Resource Recovery and Management Facility for the referenced project

This application is a modification of the application filed October 30 1985 by our office and supersedes any conflicting information previously provided

Should you have any questions please contact our office

Very truly yours

SPRINGSTEAD ENGINEERING INC

Paul Bradley P E

Jonathan M Diller E I T

PB/JMD mm

Encl

cc Sumter County

D E R
NOV 24 1986
SOUTH WEST DISTRICT
TAMPA

(C103L 1)

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION



APPLICATION FOR PERMIT TO
 CONSTRUCT ☐
 OPERATE ☒ + MODIFY

A SOLID WASTE RESOURCE RECOVERY AND MANAGEMENT FACILITY

GENERAL REQUIREMENTS

Solid Waste Resource Recovery and Management Facilities shall be permitted pursuant to Section 403.707 Florida Statutes and in accordance with Florida Administrative Code Rule 17-7. A minimum of six copies of the application shall be submitted to the Department District Office having jurisdiction over the facility. Complete appropriate section for the type of facility for which application is made. Entries should be typed or printed in ink. All blanks should be filled in or marked not applicable. The application shall include all information drawings and reports necessary to evaluate the facility. Information required to support the application is listed on the attached pages of this form.

Facility Type Existing XX Proposed _____

Sanitary Landfill

- ☒ Class I
☐ Class II
☐ Class III Trash/yard Trash
☐ Class III Yard Trash Composting

Volume Reduction Proposed ☒ Landspreading

- ☒ Composting
☒ Shredder
☐ Incinerator/Tire Churner
☐ Resource Recovery
☐ Energy Materials
- ☐ Grade I
☐ Grade II
☐ Grade III
☐ Septage/Food Service

FACILITY NAME Sumter County Landfill

406000092
 10024260016092
 DER ID Number

FACILITY LOCATION (main entrance) State Road 470

S 15 T 20S R 22E /Latitude 28 44 30N Longitude 82 05 20W
 City to High Range

Applicant Name (operating authority) Board of County Commissioners, Sumter County, Florida

Street Address & P.O. Box 209 North Florida Street, Bushnell, Sumter 33513
 City County Zip

Contact Person Garry Breeden, Director of Public Works (904) 793 4221
 Name Phone Number

Authorized Agent/Contact Springstead Engineering, Inc (904) 787 1414
 Name Phone Number

Contact Person Paul Bradley, P.E., 727 S. 14th St., P.O. Box 448 (904) 787 1414
 Name City State P.O. Box Phone Number

Leesburg Lake Florida 32749 0448
 City County State Zip

Latitude (if different than applicant) _____

Address of Landowner _____
 Street P.O. Box City State Zip

Cities Involvement Areas to be Served Sumter County Florida

Current and Projected Population to be Served 20,000

Acres within Waste Site Boundary 28 Acres within Property Boundary _____

For 1991 and Year 2000

Volume of Solid Waste to be received 350 cu yds/day ~~Cons/day~~ ~~Gallons/day~~ ~~XXXXXXXXXXXXXXX~~
 Date Site Ready to Receive Solid Waste Operational Estimated Life of Facility 100 y
 Estimated Cost of Construction Total \$ 1.4 million Estimated cost of Closing \$ 1.5 million
 Anticipated Construction Start Date and End Date
 From Dec 86 To Dec 87

**REQUIRED ATTACHEMENTS FOR CONSTRUCTION/OPERATION PERMIT
FOR A RESOURCE RECOVERY AND MANAGEMENT FACILITY**

GENERAL

Permit applicant and supporting information shall include the following (17 7 030(2) F A C)

	<u>Completeness Check</u>
1. A letter of transmittal to the Department (17 7 030(3)(a) F A C)	<u>X</u>
2. A table of contents listing the major sections of the application (17 7 030(3)(b) F A C)	<u>X</u>
3. The permit fee as specified in Florida Administrative Code Rule 17 4 05 in check or money order payable to the Department (17 7 030(3)(c) F A C)	<u>N/A</u>
4. Six copies at minimum of the completed application form and all supporting data and reports (17 7 030(2) F A C)	<u>X</u>
5. Engineer seal (17 7 030(2)(d) F A C)	<u>X</u>
6. Engineer's letter of appointment if applicable (17 7 030(3)(e) F A C)	<u>N/A</u> Previously sent
7. Copy of lease or agreement for the property on which the facility for long term closure will be located between the property owner by which the closing and long term care of the facility may be affected (17-7 030(3)(h))	<u>N/A</u>
8. Proof of publication of notice of application for the proposed activity in a newspaper of general circulation (17 7 03(4) F A C)	<u>N/A</u>

SPECIFICATION ATTACHMENT ITEMS

The following information items must be included in the application or in a separate report if they are not applicable

Construction Permits

- A Landfill Submit items 1 2 3 4 5 6 7 8 10
- B Volume Reduction Submit items 1 2 3 4 5 6 7 9 10
- C Sludge Landfilling Submit items 2 3 4 5 6 8 10

Operation Permits

- A Landfills All the items above
- B Volume Reduction All the items above
- C Sludge Landfilling All the items above

NOTE: If the facility is a landfill, the applicant must submit a site plan showing the location of the facility and the location of the existing and proposed waste management units. The site plan must also show the location of the existing and proposed waste management units and the location of the existing and proposed waste management units.

1. A Feasibility Analysis (17 7 050(2)(b) F A C)	<u>N/A</u> Existing Site
2. Evidence that the facility is in conformance with local zoning (17 7 00(2)(c)4 F A C)	<u>N/A</u> Previously sent
3. <u>Finality Determination</u> (17 7 00(3) F A C)	

NOTE: All permit applications must be submitted to the Department of Environmental Protection, 605 North West 11th Street, Tallahassee, Florida 32304. The Department will accept applications for permit review and will issue a decision on the application within 90 days of the date of submission. The Department will also issue a decision on the application within 90 days of the date of submission. The Department will also issue a decision on the application within 90 days of the date of submission.

		<u>C m p l t</u>	<u>C h c k</u>
a	A map or aerial photograph of the area no more than 1 year old showing land use and zoning within 1 mile of the facility (17-7 050(3)(a) F A C)	<u>XX</u>	
b	Plot Plan (17-7 050(3)(b) F A C)	<u>XX</u>	
	NOTE: The plot plan shall be to the nearest 200 feet to the following:		
	(1) Dimensions and Legal Description of the site		<u>N/A</u> Previously Sent
	(2) Location and depth (NGVD) of all borings		<u>N/A</u> Previously Sent
	(3) Plot for changing of disposal as	<u>XX</u>	
	(4) Facility of other measures to retain access		<u>N/A</u> Previously Sent
	(5) Cross sections showing both original and proposed fill relations		<u>N/A</u> Previously Sent
	(6) Location, depth and construction detail of monitoring wells		<u>N/A</u> Previously Sent
c	Topographic Maps (17-7 050(3)(c) F A C)		<u>N/A</u> Previously Sent
	NOTE: The topographic maps shall be combined with the plot plan (item 4) on a scale not greater than 200 feet to the nearest showing the following:		
	(1) Facility contour intervals		<u>N/A</u> Previously Sent
	(2) Proposed fill areas		<u>N/A</u> Previously Sent
	(3) Borrow areas		<u>N/A</u> Previously Sent
	(4) Access roads		<u>N/A</u> Previously Sent
	(5) Grades required for proper drainage	<u>XX</u>	
	(6) Typical cross sections of disposal site including lifts, borrow areas and drainage controls		<u>N/A</u> Previously Sent
	(7) Final drainage details	<u>XX</u>	
	(8) Final grading		<u>N/A</u> Previously Sent
	(9) Equipment facilities	<u>XX</u>	
	(10) Other pertinent information based on intended use of facility	<u>XX</u>	
d	Report (17-7 050(3)(d) F A C)		
	(1) Estimated population and area covered by the proposed treatment basis for the lifetime		<u>N/A</u> Previously Sent
	(2) Anticipated type and quantity of waste of solid waste		<u>N/A</u> Previously Sent
	(3) Anticipated life span	<u>XX</u>	
	(4) Solid waste treatment facilities		<u>N/A</u> Previously Sent
	Ground Water Monitoring Plan (17-7 050(3)(e) F A C)		
	(1) Plot and hydrogeological data including groundwater level, location, and depth of monitoring wells (17-7 050(3)(f) 17-7 050(3)(g) F A C)		<u>N/A</u> Previously Sent
	(2) Analysis of data to determine if the facility is a potential source of contamination		<u>N/A</u> Previously Sent

4 Landfill Performance and Design Standards (17-7 050(4) F A C)

Completeness Check

Liner performance (17-7 050(4)(a)(b) F A C)

(1) Material type (soil synthetics or other)

(2) Adequate base support

(3) Planned installation adequate to cover all surrounding earth

(4) Equivalency to design standards

XX

XX

XX

XX

XX

b Liner quality control plan (17-7 050(4)(c) F A C)

(1) Specifications

(2) Construction/installation methods

(3) Sampling and testing

(4) Manufacturer's specifications and recommendations

N/A Previously Sent

N/A Previously Sent

N/A Previously Sent

N/A Previously Sent

N/A Previously Sent

c Leachate control and removal system performance (17-7 050(4)(e) F A C)

(1) Construction materials

(2) Strength and thickness

(3) Measures to prevent clogging

(4) Central collection point for treatment and disposal

(5) Leachate depth not to exceed one foot

(6) Equivalency to design standards

XX

XX

XX

XX

XX

XX

XX

d Surface water management system performance (17-7 050(4)(g) F A C)

(1) Prevention of surface water flow onto waste-filled areas

(2) Stormwater run-off controls retention detention ponds

(3) Equivalency to design standards

(4) Water management district approval

XX

XX

XX

XX

XX

Gas control system performance (17-7 050(4)(i) F A C)

(1) Prevention of methane migration

(2) Prevention of damage to vegetation

() Prevention of objectionable odors off site

(4) Equivalency to design standards

XX

XX

XX

XX

XX

5 Operations Plan (17-7 050(5)(b) (c)(d) & (e) F A C)

a Designation of responsible person(s)

b Contingency operations

c Tracking type of waste received at the site

XX

XX

XX

XX

	<u>Complete</u>	<u>ess Check</u>
d Weighing or measuring incoming waste		<u>XX</u>
e Vehicle traffic control and unloading		<u>XX</u>
f Method and sequence of filling waste		<u>XX</u>
g Waste compaction and application of cover		<u>XX</u>
h Operations of gas leachate and stormwater controls		<u>XX</u>
i Groundwater monitoring		<u>XX</u>
j All weather access roads		<u>XX</u>
k Effective barrier		<u>XX</u>
l Signs indicating name of operating authority traffic flow hours of operation and charges for disposal (if any)		<u>XX</u>
m Dust control methods		<u>XX</u>
n Litter control devices		<u>XX</u>
o Fire protection and fire fighting facilities		<u>XX</u>
p Attendant		<u>XX</u>
q Communication facilities		<u>XX</u>
r Adequate inventory and reserve equipment		<u>XX</u>
s Safety devices on equipment to shield and protect operators		<u>XX</u>
6 <u>Water Quality Standards (17-7-050(5)(g) & (h) F.A.C.)</u>		<u>XX</u>
Describe how surface runoff and leachate will be handled to meet water quality standards of Florida Administrative Code Rules 17-3 and 17-4		<u>XX</u>
7 <u>Closure (17-7-070(2) F.A.C.)</u>		
a Closure plan (17-7-073 F.A.C.)		<u>XX</u>
(1) Design		<u>XX</u>
(2) Final use		<u>XX</u>
(3) Closure operations		<u>XX</u>
(4) Post closure (17-7-075 F.A.C.)		<u>XX</u>
(5) Financial responsibility (17-7-071 F.A.C.)		<u>XX</u>
b Closure plan schedule (17-7-071 F.A.C.)		<u>XX</u>
8 <u>Solid Waste Disposal Facility Data Form</u>		<u>XX</u>
9 <u>Solid Waste Volume Reduction and Resource Recovery Facility Data Form</u>		<u>XX</u>
10 <u>Certification by Applicant and Engineer or Public Officer</u>		<u>XX</u>

SOLID WASTE DISPOSAL FACILITY DATA FORM

Date Form Completed 9-9-86Permit No 5060 30674Issue Date July 16, 1980 Expires July, 1985DER ACTION Add Delete Change Deactivate Site

1 DER IDENTIFICATION NUMBER <u>10024260016092</u>		2 SITE NAME <u>SUMTER COUNTY SANITARY LANDFILL</u>	
3 COUNTY <u>SUMTER</u>		4 FACILITY ADDRESS (Road cross road street) <u>STATE ROAD 470, SUMTER COUNTY, FLORIDA</u>	
4a Facility Phone Number		4b Facility Site Supervisor	
5a <u>28</u> <u>44</u> <u>30N</u> <u>82</u> <u>05</u> <u>20W</u> Latitude Longitude		5b <u>20S</u> <u>22E</u> <u>15</u> Township Range Section	
Operating Authority Name <u>BOARD OF COUNTY COMMISSIONERS, SUMTER COUNTY</u>		8 Operating Authority Address <u>209 NORTH FLORIDA STREET</u> <u>BUSHNELL FLORIDA 33513</u>	
7 Phone Number (904) 793 4221			
9 Owner of Site Property (if different from operator) <u>SAME AS OPERATOR</u>		11 Address of Owner <u>209 NORTH FLORIDA STREET</u> <u>BUSHNELL FLORIDA 33513</u>	
10 Phone Number of Owner (904) 793 4221			
12 Facility Type <u>X</u> Class I Sanitary Landfill <u> </u> Class II Sanitary Landfill <u> </u> Class III Trash/Yard Trash <u> </u> Class III Yard trash comp		Sludge Landspreading Type <u> </u> Grade I <u> </u> Grade II <u> </u> Grade III <u> </u> Septage <u> </u> Other Facility	
3 Month Year Begun <u>PROPOSED</u>	14 Disposal Area <u>28</u> Acres	15 Population Served <u>20,000</u>	
Expected Useful Lifetime <u>20</u> Years	17 Weighing Scales <u>TO BE</u> <u> </u> Yes <u>XX</u> No <u>ADDED</u>	18 Security to Prevent Unauthorized Used <u> </u> Yes <u> </u> No	
19 Depth of Water Table Ft (NGVD)	20 Quantity of Waste/Day tons or <u>350</u> Yd ³	21 Charge <u>\$ 1 50</u> yd ³ <u>XXX</u>	
2 Surrounding Land Use Zoning <u> </u> Residential <u> </u> None <u>X</u> Agricultural <u> </u> Commercial <u> </u> Industrial <u> </u> Other			
Types of Waste Received <u>X</u> Residential <u>X</u> Agricultural <u>X</u> Yard Trash/Trash <u> </u> Other <u>X</u> Commercial <u> </u> Septic Tank <u> </u> Sewage Sludge <u> </u> Incinerator Residue <u>X</u> Industrial non hazardous <u> </u> Industrial Sludge <u> </u> Pathological/Infectious <u> </u> Water/Air Treat Sludge <u> </u> Hospital			
4 Number of Monitoring Wells <u>6</u>		25 Number of Surface Monitoring Points <u>0</u>	
6 Gas Control / Recovery <u>*</u> <u> </u> Yes <u>X</u> No / <u> </u> Yes <u>X</u> No		27 Salvaging Permitted <u> </u> Yes <u>X</u> No	
		28 Attendant <u> </u> Yes <u>X</u> No	

*To be added

29 Leachate Control Method - Liner Type <input type="checkbox"/> Natural <input checked="" type="checkbox"/> Emplaced Clay <input type="checkbox"/> Synthetic <input type="checkbox"/> None <input type="checkbox"/> Other _____		
Collection Method <input type="checkbox"/> Well Point <input type="checkbox"/> Perimeter Ditch <input checked="" type="checkbox"/> None <input type="checkbox"/> Under Site Drains <input type="checkbox"/> Other <u>Drains/Pumps on new cell</u>		
Treatment Method <input type="checkbox"/> Oxidation <input checked="" type="checkbox"/> Recirculated <input type="checkbox"/> Chemical <input type="checkbox"/> Advanced <input type="checkbox"/> None <input type="checkbox"/> Other _____		
30 Leachate Discharge <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Class of Receiving Water	
31 Site Located in <input type="checkbox"/> Floodplain <input type="checkbox"/> Wetlands <input checked="" type="checkbox"/> Other HIGH LAND		
32 Surface Runoff Collected <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Type of Runoff Treatment PERCULATION	Class of Receiving Waters GROUNDWATER
33 Property Recorded as a Solid waste Disposal Site in County Land Records <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
34 Days of Operation Mon Sat	Days of Cover Daily	Hours of Operation 7 00 4 00
35 Name Title and Phone Number of Person Completing Form Jonathan M Diller Engineer		

NOTE: All blanks must be filled or marked as not applicable

SOLID WASTE VOLUME REDUCTION AND RESOURCE RECOVERY FACILITY DATA FORM

Permit No 5060 30674 Issue Date JULY 16, 1980 Expires JULY, 1985

Facility No (DER Identification) 10024260016092 2

DER ACTION ☐ Add ☐ Delete ☐ Change ☐ Deactivate Site ☐ Other

1 County SUMTER		2 Site Name SUMTER COUNTY SANITARY LANDFILL	
3 Date Form Completed 9 10 86		4 Facility Address STATE ROAD 470, SUMTER COUNTY, FLORIDA	
4a Facility Phone No (904) 793 4221		4b Facility Site Supervisor GARRY BREEDEN	
5a <u>28</u> <u>44</u> <u>30N</u> <u>82</u> <u>05</u> <u>20W</u> Latitude Longitude		5b <u>20S</u> <u>22E</u> <u>15</u> Township Range Section	
6 Operating Authority Name BOARD OF SUMTER COUNTY COMMISSIONERS		8 Operating Authority Address 209 NORTH FLORIDA STREET BUSHNELL, FLORIDA 33513	
7 Phone Number (904) 7923 4221			
9 Owner of Site Property (if different from Operator) SAME		11 Address of Owner 209 NORTH FLORIDA STREET BUSHNELL, FLORIDA 33513	
10 Phone Number of Owner (904) 793 4221			
12 Facility Type (check one or more) <input type="checkbox"/> Incinerator Only <input type="checkbox"/> Biomass Gas Production <input type="checkbox"/> Pyrolysis <input type="checkbox"/> Other <input type="checkbox"/> Sludge Concentration <input type="checkbox"/> Baler (compactor) <input type="checkbox"/> Composting Plant <input type="checkbox"/> Transfer Station <input type="checkbox"/> Waterwall Incinerator <input checked="" type="checkbox"/> Shredder (pulverizer)			
13 Month/Year Begun PROPOSED		14 Disposal Area 28 Acres	
15 Population Served 20 000			
16 Expected Useful Lifetime 20 Years		17 Weighing Scales <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No TO BE ADDED	
18 Waste Processed Per Operational Day 150 tons tons /day			
19 Charge \$1 50/yd.		20 Days Operated X M T W T F S	
21 Hours/Day Operated 8			
22 Maximum Processing Rate 100 tons/day			
23 Material Recovered Tons/Week NONE _____ Paper _____ Glass _____ Other _____ Ferrous Metals _____ Non Ferrous Metals _____ Aluminum _____ Plastics			
24 Energy Recovery in units shown NONE _____ High Pressure Steam lb/hr _____ Chilled Water gal/hr _____ Gas ft ³ /hr _____ Low Pressure Steam lb/hr _____ Oil gal/hr _____ Gas BTU/hr _____ Electricity kw/h _____ Oil BTU/hr _____ Other			
25 Process Water Recycled <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Treatment Method Used NONE USED EXCEPT WASH	
Discharged to N/A <input type="checkbox"/> Surface Waters <input type="checkbox"/> Underground		N/A Class Receiving Water	
26 Total Residue 25 % of waste intake		Residue disposed of at (Site Name) SUMTER COUNTY LANDFILL	
Supplementary fuel Used ELECTRICITY			
Fuel N/A		Quantity Used/Hour UNKNOWN	
27 Estimated Operating Costs Material - Energy Revenue UNKNOWN Total Cost/Ton UNKNOWN Net Cost/Ton UNKNOWN			
28 Mode of Staff TWO		30 State Pollution Control Bond Financing Amount \$ NONE	
31 Estimated Amount of Tax Exemptions that will be Requested \$ NONE			
32 Name and Title of Person Completing Form JONATHAN M DILLER ENGINEER			

Note All blanks must be filled or marked as not applicable

CERTIFICATION BY APPLICANT AND ENGINEER OR PUBLIC OFFICER

A Applicant

The undersigned applicant or authorized representative of SUMTER COUNTY LANDFILL is aware that statements made in this form and attached information are an application for a OPERATION & MODIFICATION Permit from the Florida Department of Environmental Regulation and certifies that the information in this application is true correct and complete to the best of his 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.

Garry Breeden
Signature of Applicant or Agent
Garry Breeden Director
Name and Title
Date 9-25-86

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

B Professional Engineer Registered in Florida or Public Officer as Required in Section 403 707 and 403 7075 Florida Statutes

This is to certify that the engineering features of this resource recovery and management facility have been designed/examined by me and found to conform to engineering principals applicable to such facilities. In my professional judgement 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.

Paul Bradley 11 21 86
Signature
Paul Bradley P.E.
Name and title (print name)
35481
Florida Registratic Number
p a p e seal

P O BOX 448
Mailing Address
LEESBURG FL 32749 0448
City, State Zip Code
(904) 787 1414
Telephone Number
Date _____

Construction Cost Estimate \$1.4 million

Permit Number S060-30674

Issue Date July 16 1980

Review Date _____

Expiration Date July 1985

SPECIFIC ATTACHMENT ITEMS

- 1 A foundation analysis (17-7 050(2)(b) F A C)

N/A Existing Site

- 2 Evidence that the facility is in conformance with local zoning
(17-7 050(2)(c)4 F A C)

N/A Existing Site

- 3 Facility Design (17-7 050(3) F A C

A layout of the proposed buildings burnpits and composting area is included The facility has an approved groundwater monitoring plan All new cells in the reserve area will have a liner and leachate collection system as shown on the design plans The composting will occur on a liner of limestone and all runoff will be considered leachate

A 3% grade will be placed on the composting area to collect the leachate as shown A berm will be placed to prevent mixing of leachate and runoff Washdown water from the shredder and trucks will flow through a drainpipe to the leachate pit

4 Landfill Performance and Design Standards (17-7 050(4) (F A C)

The liner on new cells and the composting area will be limestone compacted to a field test of $<1E-7$ cm/s. The leachate pit will be limestone $<1E-8$ cm/s on the bottom and $<1E-7$ cm/s on the sides.

Leachate collection will be

- 1 Surface runoff from composting site by swale and concrete pipe
- 2 Drainpipes from new cells and truck equipment washdown water

All stormwater which comes into contact with the composting or new cells will be considered leachate. No increased stormwater discharge or pollution loading will result from the new activity as opposed to current use.

Gas migration will be controlled by placing passive vent pipes every fifty (50) feet along the boundary of the composting site and offsite property.

5 Operations Plan (17-7 050(5)(b) (c)(d) & (e) F A C)

The Sumter County Director of Public Works will be responsible for the operation of the disposal facility. The emergency fill area will be used in the event of a mill breakdown. Solid waste is brought into the landfill through a control gate and will be weighed after the proposed scale is installed. Vehicles will be unloaded according to the traffic plan shown on the site plan.

Wastes will be pulverized and moved to the composting pile Metals will be placed in the fill area or white goods area

Composted material will be moved offsite by the contractor

Leachate will be used as process water on the composting mounds

All roads will be paved

The fill is fenced with a locked gate

Appropriate traffic signs will be placed

Dust from the compactor/shredder will be suppressed by spraying water over the waste as it enters the shredder and as it is shredded

Litter will be controlled by storing the shredded waste in an enclosed storage building

Fire extinguishers will be placed and clearly marked in all buildings

The fill is always attended while open

The guard shack is equipped with a telephone

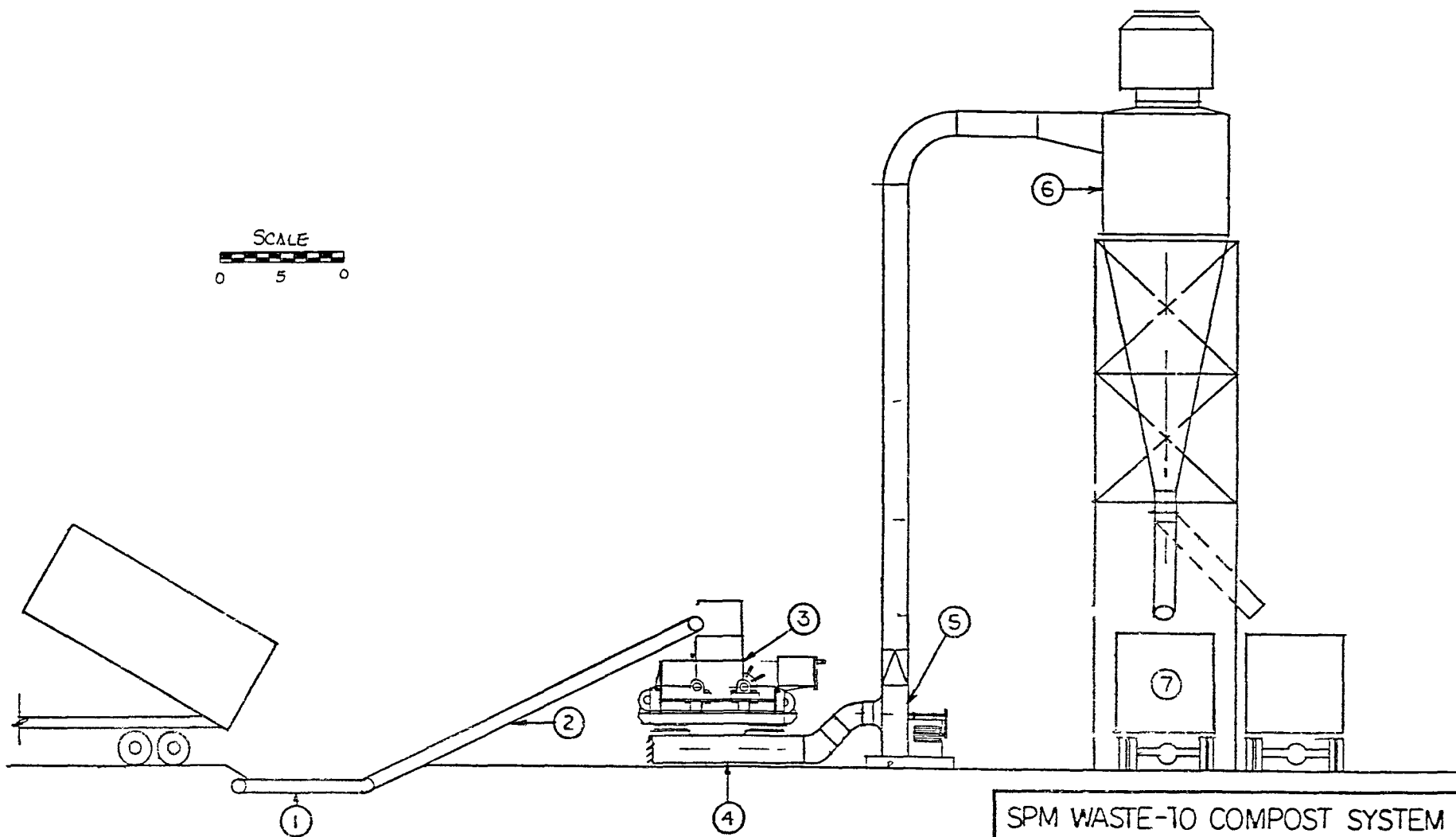
The County will provide reserve equipment from its road department or will rent same if needed

6 Water Quality Standards (17-7 050(5)(g) & (h) F A C)

All surface runoff contacting the composting area or garbage will flow into the leachate pit The leachate will be used as composting water and be sprayed back onto the compost Any excess leachate will be hauled to a wastewater treatment facility

7 Closure (17-7 070(2) F A C)

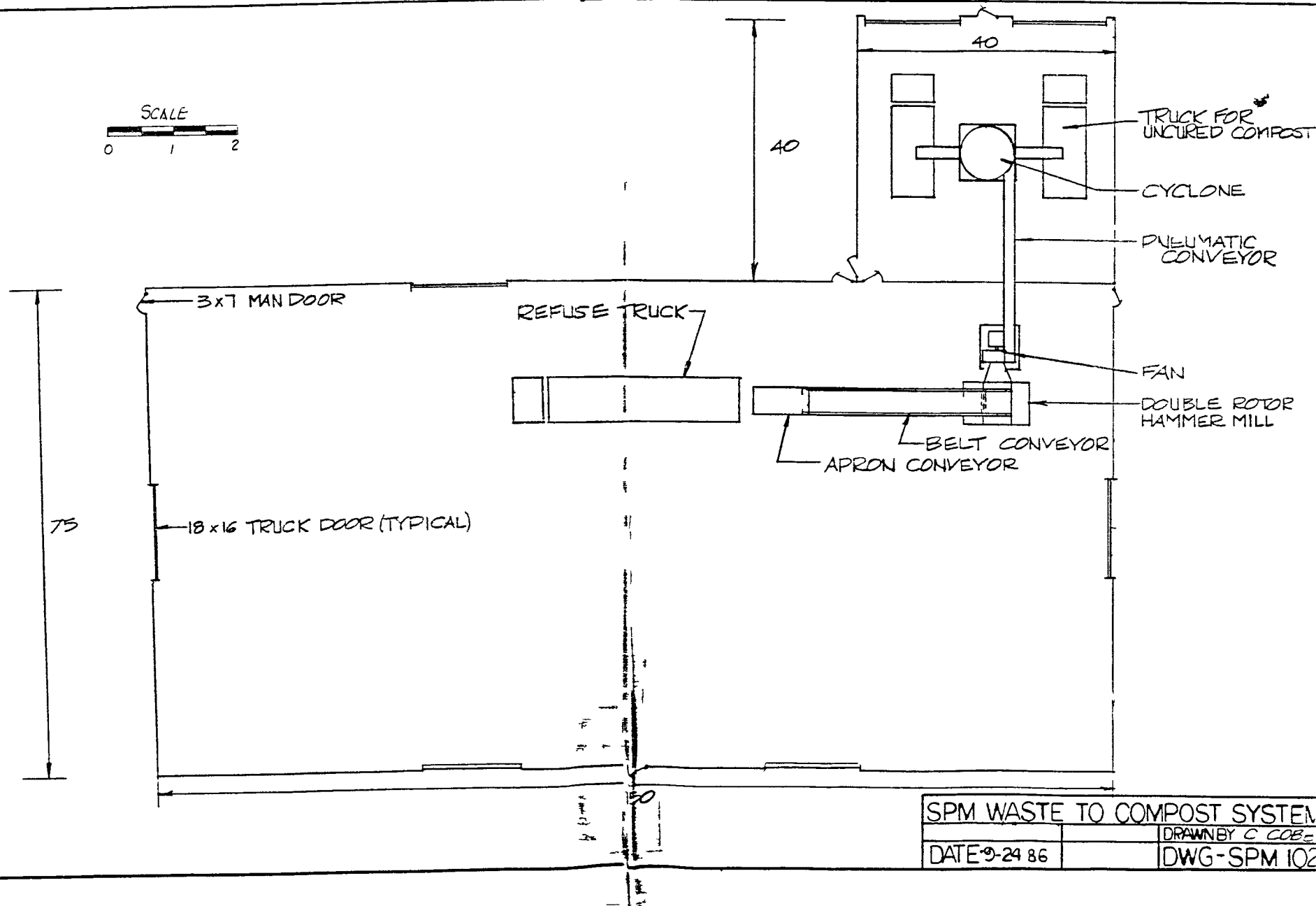
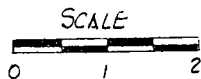
The landfill will not be closed. Gradual stabilization will be achieved by placing a final cover and installing a passive gas ventilation system in the area where cells have been filled. The estimated cost of stabilization is one and one-half million (1986) dollars (\$1 500 000 00) to be provided out of landfill operating revenues.



- | | | | |
|---|-------------------------------|---|--------------------------|
| 1 | Apron Conveyor | 5 | Transport Fan |
| 2 | Belt Conveyor | 6 | Cyclone |
| 3 | SPM Double Roller Hammer Mill | 7 | Processed Material Truck |
| 4 | Material Collecting Duct | | |

SPM WASTE-TO COMPOST SYSTEM

APPROVED BY	DRAWN BY C COBB
TE 9-1-86	REVISED
DRAWING NUMBER	
SPM 101----	



SPECIFICATIONS

FOR

SPM WASTE COMPOST SYSTEM

AS PER DRAWING #101

SPECIFICATIONS

I Capacity and Performance

The whole installation is designed for the composting of household waste with an input capacity of 25 tons per hour to be shredded to a nominal size of 3" with a major percentage shredded below 1" in the ideal size for composting in windrows with the addition of bacteria. It is assumed that the discharged waste will be pushed on top of the apron conveyor by means of a bobcat and that oversized and/or heavy items will be eliminated on the inclined part, Item #2 of the same conveyor.

II Specifications

Item

1&2 1 apron conveyor

One complete steel apron conveyor 30' long 5' wide complete including drive - 5 HP

3 1 SPM Double Rotor Hammermill - Type 2000

One SPM Double Rotor Hammermill Type 2000 heavy duty hammermill designed for continuous operation with direct drive of the motors to work at 1800 rpm

Equipped with two heavy rotors with 40" diameter 60" wide each rotor equipped with 48 flexibly attached hammers made from mild steel with wear resistant surface welding

Each rotor is equipped with 2 heavy duty special bearings and bearing housings connected with a highly efficient oil lubrication system including pump and oil tank

Including hydraulic opening devices for the upper end

Item

sections to provide quick and easy access to all interior wear parts as shown on the attached photocopy

Including 2 electro-motors of 200 HP each, 1800 rpm with starters, cables and control cabinet

4 1 Collecting Duct

One collecting duct with secondary air control to adjust the suction caused by the fan Item #5 through the hammermill to assure most efficient evacuation of the material out of the hammermill

5 1 Heavy-duty Material Transport Fan

Complete with heavy fan wheel equipped with wear plates which are screwed on the fan wheel

Including motor - 100 HP - 1800 rpm complete with v-belt and pulleys, including starter

Including pipes and flanges connecting with cyclone

6 1 Cyclone

One cyclone specially designed for highly efficient separation of the material from the air with a minimum of dust loss

Including supporting structure to permit loading of dump trucks or trailers

Including adjustable chute to permit continuous operation while the chute is moved from a loaded vehicle to the other vehicle shown as Item #7 on the drawing