METRO

APR 25 '13 PM 1:12

MAIL THIS APPLICATION TO:

DATE RECEIVED BY METRO:

Metro Finance and Regulatory Services
Solid Waste Compliance and Cleanup
600 NE Grand Avenue
Portland, OR 97232-2736
(503) 797-1835

Date of Pre-Application Conference: February 5, 2013

Solid Waste License Application
Material Recovery Facility

PART 1 – Standard License Application Information

Applicants applying to conduct material recovery must provide the following information:

1. Applicant (Proposed Licensee)	
Facility Name:	S&H Recycling
Company Name:	S&H Logging Co., Inc.
Street Address:	1748 NE 25th Avenue
Mailing Address:	20200 SW Stafford Road
City/State/Zip:	Tualatin, OR 97062
Registered Agent	Casey Stroupe
Contact Person:	Will Gehr
Phone Number:	503-841-7543
Fax Number:	503-638-3134
E-mail Address:	will@shbark.com

2. Proposed Licensee's Owner or Parent Company (provide information for all owners)	
Name:	S&H Logging Co., Inc.
Address:	20200 SW Stafford Rd
City/State/Zip:	Tualatin, OR 97062
Phone Number:	503-638-1011
Fax Number:	503-638-3134
E-mail Address:	Casey@shbark.com

3. Site Operator (if different from Proposed Licensee)	
Company Name:	S&H Logging Co., Inc.
Contact Person:	John Thomas
Street Address:	1748 NE 25th, Hillsboro
Mailing Address:	20200 SW Stafford Road
City/State/Zip:	Tualatin, Or 97062
Phone Number:	503-846-0881
Fax Number and E-mail Address:	john@shbark.com

4. Site Description			
Tax Lot(s): 100	Section:29	Township:1N	Range:2W

5. Land Use	
Present Land Use Zone:	Recycling and Retail/Wholesale of landscape supplies
Is proposed use permitted outright?	Yes
❑ If yes, attach a copy of a completed Metro or DEQ Land Use Compatibility Statement. (See also, Attachment F requirements)	
Is a conditional use permit (CUP) necessary for the facility?	No
❑ If yes, attach a copy of the CUP.	
Are there any land use issues presently pending?	No
If yes, explain:	
Are any DEQ permits required?	Yes:
❑ If yes, list them and attach copies with this application. (See also, Attachment G requirements)	
Are any other local permits required? If yes, list them (see Attachment H requirements).	

6. Land Owner		
Is the applicant the sole owner of the property on which the facility is located?	☐ YES	☒ NO (If you answer "NO", complete the rest of the information requested in this section and attach a copy of the Property Use Consent Form, signed by the owner(s) of the property. See Attachment J)
Name of Property Owner:	Casey Stroupe	
Mailing Address:	20200 SW Stafford Road	
City/State/Zip:	Tualatin, OR 97062	
Phone Number:	503-638-1011	

7. Public/Commercial Operations		
Will the facility be open to the public?	■ YES	☐ NO
Will the facility be open to non-affiliated commercial solid waste collectors?	■ YES	☐ NO
Will the facility be open to solid waste collection companies that collect waste from outside the boundary of Metro?	■ YES	☐ NO

Operating Hours and Traffic Volume:	PUBLIC	COMMERCIAL AFFILIATED	COMMERCIAL NON-AFFILIATED
Operating Hours	7AM-6PM M_F; 8-5 Sat	7AM-6PM M_F; 8-5 Sat	7AM-6PM M-F; 8-5 Sat
Estimated Vehicles Per Day	20	3	2

8. Solid Waste To Be Accepted and Activities Conducted	
For each material type accepted at the facility, list the expected posted public tip fee: (attach additional pages if necessary)	
WASTES / MATERIALS TO BE ACCEPTED	EXPECTED PUBLIC TIP FEE
Mixed, dry commercial waste	68
Source separated, mixed, dry residential recyclables	0
Describe the purpose (activities to be performed and waste types to be received) of the proposed facility. Include an estimate of the quantity of waste to be received annually.	

WASTE TYPE	PURPOSE	QUANTITY
Mixed, dry commercial waste	Separate recyclables	6400 tpy
Mixed residential recyclables	Sort and prepare recyclables for processing	300tpy

Solid Waste, and/or Solid Waste Residual from processing of Solid Waste, delivered to this facility will be reloaded for transport to the following facility or facilities: (Please list all facilities and include additional pages if necessary.)

FACILITY NAME	WASTE TYPE	WASTE QUANTITY	PURPOSE *
Hillsboro Landfill	Residual	~~2500 Tons~~ 1400 tons	Disposal or ADC

* For example: Disposal, Inert Fill, or Useful Material

Provide the name, address and function of all subcontractors involved in the facility operations:

NAME	ADDRESS	FUNCTION
NA		

List the anticipated quantity of wastes to be accepted annually.

BY GENERATOR TYPE:

	Tons Received	Tons Recovered	Tons Residual
• Commercial:	6400	~~3900~~ 5100	~~2500~~ 1300
• Industrial:			
• Residential:	300	290	10
TOTAL			

BY WASTE TYPE:	Tons	Will you recover materials from this waste? YES	NO	Estimate of the maximum and typical lengths of time required to process each day's receipt of each waste / material type:
• Non-Putrescible Wastes:		x		Max: 48 hr; Typ: 24 hr
• Source-Separated Recyclables:		x		Max: 1 week; Typ: 3 days
• Source-Separated Yard Debris:		x		Max: 1 week; Typ 3 days
• Special Wastes:			x	
• Inerts: Concrete and dirt		x		Max: 3 month; Typ: 1 month
• Petroleum Contaminated Soil:			x	
• Other: Source–Separated Wood		x		Max: 3 months: Typ: 1 month

APPLICANT CERTIFICATION: This form cannot be processed without a signature

I certify under penalty of law that the information contained in this application is true and correct to the best of my knowledge. I agree to notify Metro within 10 days of any change in the information submitted as a part of this application.

SIGNATURE OF AUTHORIZED AGENT _____

TITLE Vice President

PRINT NAME Casey Stroupe

DATE 4/20/2013 PHONE 503-638-1011

METRO

MAIL THIS APPLICATION TO:

DATE RECEIVED BY METRO:

Metro Finance and Regulatory Services
Solid Waste Compliance and Cleanup
600 NE Grand Avenue
Portland, OR 97232-2736
(503) 797-1835

Solid Waste Application Supplemental Form
Property Use Consent

1. Property Owner.	
Name:	Casey Stroupe
Mailing Address:	20200 SW Stafford Road
City/State/Zip:	Tualatin, Oregon 97602
Phone Number:	503-638-1011

2. Site Description.			
Tax Lot(s): 100	Section: 29	Township: 1N	Range: 2W
Address:			

3. Describe the applicant's proposed use of this property.
Recycling of mixed, dry commercial waste and source-separated residential recyclables

4. Describe the property interest held by the prospective Licensee or Franchisee (Applicant).
S&H Logging Co., Inc., is co-owned by the property owner, Casey Stroupe. S&H Logging has no interest in this property.

5. Describe the duration of the interest.

6. Attach copy of agreement between Property Owner and Applicant.

APPLICANT CERTIFICATION: This form cannot be processed without a signature.

I certify under penalty of law that the information contained in this application is true and correct to the best of my knowledge. I agree to notify Metro within 10 days of any change in the information submitted as a part of this application.

SIGNATURE OF AUTHORIZED AGENT _____

TITLE Vice-President and Co-Owner

PRINT NAME Casey Stroupe

DATE 4-19-13 PHONE 503-638-1011

PROPERTY OWNER(S): This form cannot be processed without a signature.

"I consent to the applicant's proposed use of this property as described on this form. I have also read and agree to be bound by the provisions of Section 5.01.180(e) of the Metro Code if the applicant is granted a franchise or license and that franchise or license is subsequently revoked or if renewal of that franchise or license is refused." Metro Code Section 5.01.180(e) states: "Upon revocation or refusal to renew the Franchise or License, all rights of the Franchisee or Licensee in the Franchise or License shall immediately be divested."

I certify under penalty of law that the information contained in this application is true and correct to the best of my knowledge. I agree to notify Metro within 10 days of any change in the information submitted as a part of this application.

SIGNATURE _____

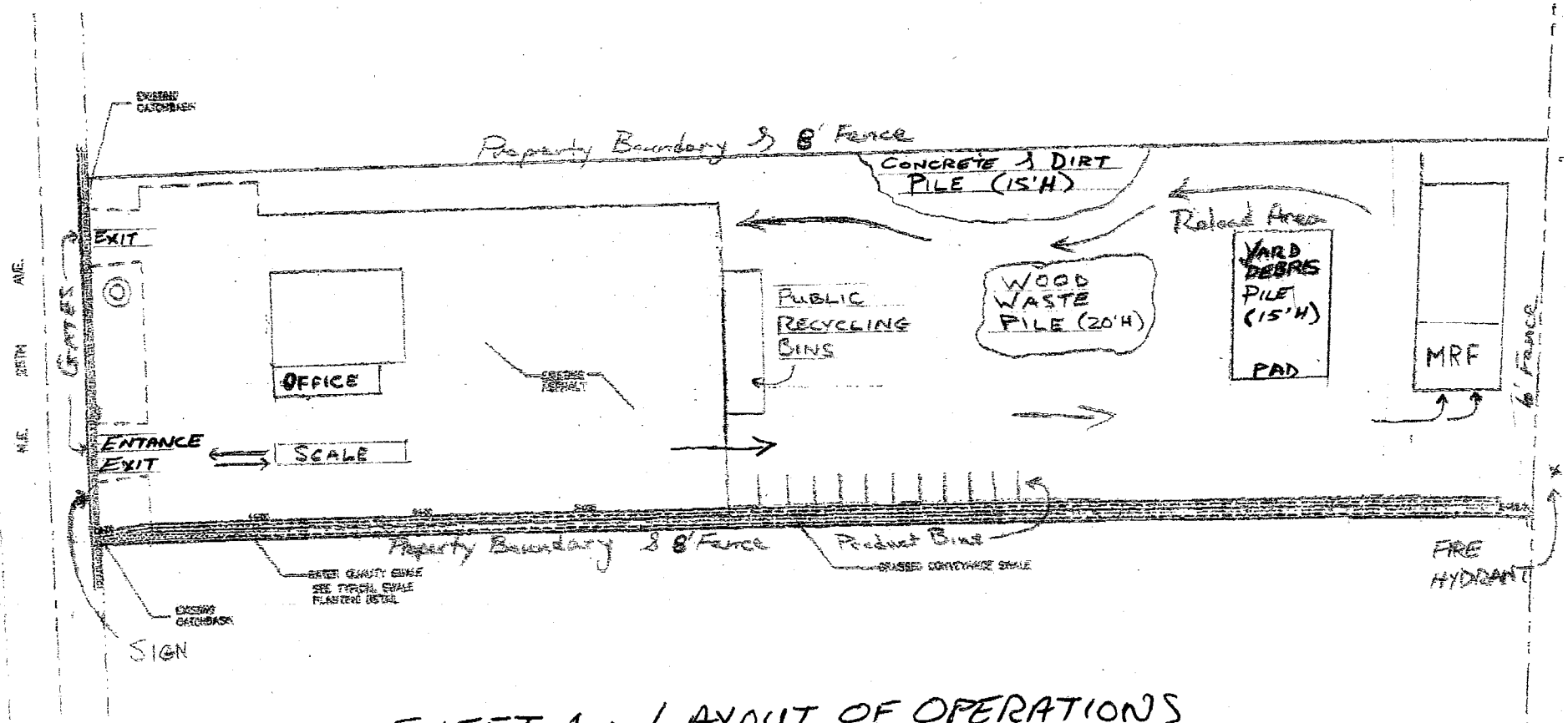
PRINT NAME Casey Stroupe

DATE 4-19-13 PHONE 503-638-1011

SIGNATURE _____

PRINT NAME _____

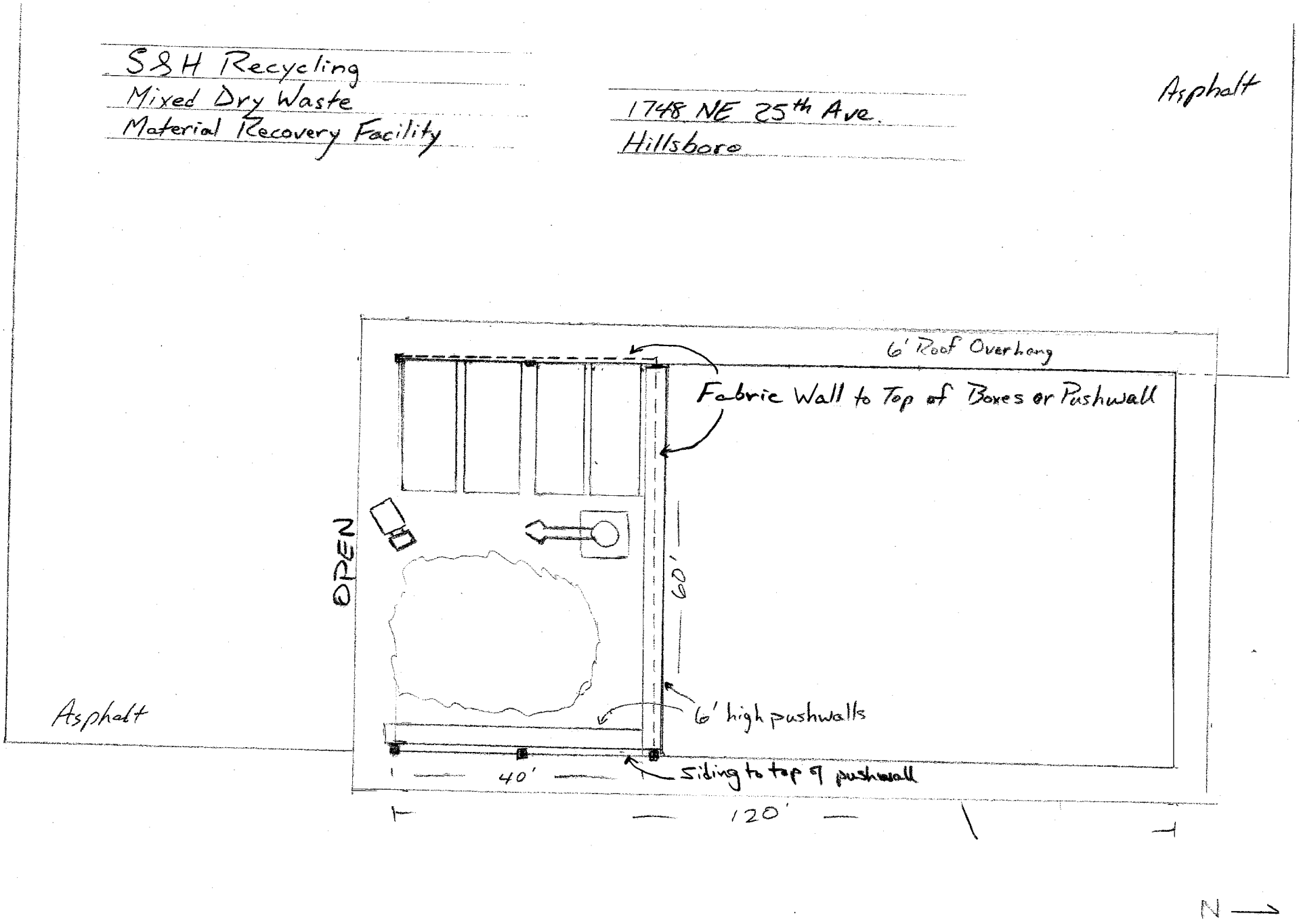
DATE _____ PHONE _____



SHEET 1: LAYOUT OF OPERATIONS

S&H Recycling
Mixed Dry Waste
Material Recovery Facility

1748 NE 25th Ave.
Hillsboro



SHEET 2: BUILDING FLOOR PLAN

State of Oregon
Department of Environmental Quality

Application For A New Solid Waste Disposal Site Permit

Oregon Department of Environmental Quality

(Attach Additional Sheets If Necessary)

DEQ USE ONLY – BUSINESS OFFICE
Date Received: _____
Amount Received: _____
Check No.: _____
Deposit No.: _____
Forward confirmation of fee payment for
Eastern Region applications to:
DEQ – The Dalles
Northwestern Region applications to
DEQ-NWR – Portland
Western Region applications to:
DEQ - Salem

A. REFERENCE INFORMATION *(Please Print clearly.)*

1. Casey Stroupe
   Legal Name of Registered Applicant (See #22 below.)
2. Ph. 503-638-1011 FAX 503-638-3134
3. S&H Logging Co., Inc
   Legal Name of Business (May be same as above)
4. 20200 SW Stafford Road
   Mailing Address of Applicant
   Tualatin OR 97062
   City State Zip
5. Casey Stroupe
   Legal Name of Property Owner
6. 20200 SW Stafford Road
   Mailing Address of Property Owner
   Tualatin OR 97062
   City State Zip
7. Ph. 503-638-1011 FAX 503-638-3134
8. S&H Recycling
   Common Name of Facility
9. 1748 NE 25th Avenue
   Facility **Physical** Address
   Hillsboro OR 97124
   City State Zip
10. 20200 SW Stafford Road
    Facility's Mailing Address
    Tualatin OR 97062
    City State Zip
    JOHN@SHBARK.COM
    E-Mail for Operator/Contact
11. John Thomas
    Name of Facility Operator
12. Washington
    County in which Facility is Located

13. Enter Facility Location by LATITUDE and LONGITUDE, SECTION, TOWNSHIP, and RANGE.

Section 29 Township 1N Range 2W

LATITUDE			LONGITUDE		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
45	32'	15.7"	-122	57'	25.2"

B. TYPE OF PERMIT REQUESTED

I am applying for the following permit (check one): Please call the solid waste permit coordinator at the nearest DEQ office if you have any questions about the permit type or need further information (see map on page 2 for DEQ offices).

- ☐ 14. Closure Permit
- ☐ 15. Composting Facility Permit or Registration (Environmental Screening)
- ☐ 16. Energy Recovery Facility Permit
- ☐ 17. Incineration Facility Permit
- ☐ 18. Land Disposal Site Permit (Landfill)
- ☐ 19. Solid Waste Letter Authorization Permit (short-term projects only)
- ☐ 20. Solid Waste Treatment Facility Permit
- ☒ 21. Transfer Station/Material Recovery Facility Permit

C. SIGNATURE

I hereby certify by my signature below that the information contained in this application, and the documents I have attached, are true and correct to the best of my knowledge and belief.

22. Signature of Legally Authorized Representative	Print Name	Title	Date
	Casey Stroupe ~~William Gehr~~	VP/owner ~~Environmental Director~~	4/19/13

D. ATTACH TO THIS PERMIT APPLICATION *(You must check all of the following in order for this application to be complete.)*

☒ 23. I have attached a completed LAND USE COMPATIBILITY STATEMENT which identifies: 1) the type of activity/ facility proposed (composting facility, material recovery facility, anaerobic digestion facility, etc.), 2) the specific location of the facility and 3) the amount of solid waste the facility will receive.

☐ 24. I have contacted a DEQ solid waste staff person to determine if I must get a WRITTEN RECOMMENDATION from the local government unit having jurisdiction of solid waste in my area.

☒ 25. I have attached a CERTIFICATE OF BUSINESS REGISTRY of this business with the State of Oregon.

☒ 26. I have attached a LIST OF DEQ PERMITS issued or applied for under the business name listed above.
☐ Check here if no other permits issued or applied for. 1200C in 2008

☐ 27. I have reviewed the instructions applicable to the type of facility applying for, which describes steps necessary to submit a completed application. I have attached additional materials, if any, as listed on that instruction sheet. *(Please contact the nearest DEQ solid waste permit coordinator if you have questions).*

E. FEES – MUST ACCOMPANY THIS APPLICATION

28. Application Filing Fee: $ 100 (Make check payable to Oregon DEQ)
Compliance Fee (if required): $ 50
Compost Facility Screening Fee: $ _____ TOTAL FEE(S): $ 150.00

Please mail the original application and one copy of the completed packet to the appropriate regional office. Note that action will not begin on an application until a complete application packet is received. Incomplete applications may be returned.

1. Eastern Region
Department of Environmental Quality
400 E Scenic Drive, Ste 2.307
The Dalles, OR 97058
(541) 298-7255 ext. 221

2. Northwest Region
DEQ Solid Waste Programs
2020 SW Fourth Ave. Ste 400
Portland, OR 97201
(503) 229-5353

3. Western Region
DEQ Solid Waste Programs
750 Front St. NE Suite 120
Salem, OR 97301
(503) 378-5047

PERMIT APPPLICATION FOR A MATERIAL RECOVERY FACILITY

Submitted to:

Northwest Region
Oregon Department of Environmental Quality
Solid Waste Program
2020 SW Fourth Avenue, Suite 120
Portland, OR 97201

Applicant:

Casey Stroupe
S&H Logging Co., Inc.

Physical Address:
1748 NE 25th Avenue
Hillsboro, OR 97124

Mailing Address:
20200 SW Stafford Road
Tualatin, OR 97062

Date:

March 20, 2013

Contact:

Will Gehr
will@shbark.com
503-841-7543

Introduction

This is supporting information to accompany the application form as required by the instructions. The application is for a small Material Recovery Facility (MRF) that proposes to process commercial mixed dry waste at 1748 NE 25th Street in Hillsboro, OR. This recycling activity will be added to the existing yard debris reload operation and wood waste grinding and off-loading operation. The MRF functions will be housed in an existing building, and will start with minimal equipment by employing a simple floor-sorting method. If the demand for the service grows, the equipment and processing will become more sophisticated over time. Permits required for the MRF include one from the ODEQ, as well as a Metro license.

Overall Description of Proposed Operation

Existing receipt and reload of yard debris will continue unchanged. Only source-separated yard debris is accepted, and no sorting is done on-site. Yard debris is ground and reloaded for transfer to permitted compost facilities. Similarly, existing receipt of clean wood waste will continue. Wood waste will be ground into hog fuel before off-loading to end users. Both these activities will continue to take place in our yard and not in the building that will house the MRF.

We are proposing to use one end of an existing 2-sided steel building for accepting and sorting recyclable materials from commercial, mixed, dry waste. Most of the received waste material will be generated at construction sites, and will be a mixture of wood, cardboard, gypsum (sheetrock), paper, plastic, and metal, carpet and pad, glass, and concrete. No putrescible waste will be allowed in the received loads. No toxic or hazardous wastes will be received or processed. Drivers will be reminded that these materials are prohibited. If they are observed in loads during or after dumping, all materials will be reloaded into the truck and the driver will be advised where these can be safely and legally disposed. Residual from this facility's recovery sorting will be taken to the Hillsboro Landfill, a DEQ permitted and Metro Licensed facility, or other Metro-approved disposal facilities.

The proposed operation (see Sheet 1: SITE PLAN) will consist of a truck and trailer weigh scale located on the gravel drive to the MRF. Trucks will weigh before and after dumping mixed dry waste at the facility. Loads will be dumped at the south end of an existing 60' x 120' steel, clear-span building. An operations manager will inspect all loads as they are being dumped. An excavator with a grapple and a skid steer loader will separate large items that are recyclable and spread out the remaining materials on the floor. Workers will separate smaller recyclables into bins. The two machines will deposit recyclables directly into large drop-boxes at the edge of the work area, but still under the roof. When full, these drop-boxes will be hauled to end-users of other yards for further processing. As facility throughput increases, additional processing machinery, such as a baler, will be added to increase the value of the recovered materials.

The facility will accept commercial drop box loads as well as public self-haul of mixed dry waste. We will also provide bins for drop-off of curbside-recycling materials. These bins will be placed along the south side of the gravel drive, as shown on Sheet 1.

Site Location and Topography

Figure 1 is a vicinity map showing the location of the facility at 1748 NE 25th Street. It is in an industrial zone a few blocks off NE Cornell Road. Figure 2 is an aerial photo showing the site and the immediate surrounding area. Figure 3 is an Erosion Control plan that shows the finished grading and topography of the site after the 120' x 60' building and bioswale were permitted and constructed at the rear of the property. The non asphalt area slopes to the south, where all runoff is treated by the bioswale before entering the storm sewer. The 40-some year old building on the western half of the property has a sanitary sewer connection. The MRF will not generate leachate, and hence leachate treatment will not be necessary. All materials will be covered, either by the building roof or by covered bins.

Design and Construction

City of Hillsboro building, erosion control, and stormwater treatment permits were obtained in 2007 for site development and erection of a pre-engineered, steel 60' x 120' building. All development and construction has been finished. There is an all-weather gravel access road leading from an asphalt drive area that is part of an existing landscape products and supply business owned by the applicant. This is shown on the engineer's Site Plan. A DEQ 1200-C permit was obtained for construction and expired on March 20, 2011. All conditions were met. The stormwater runoff and treatment swale design and construction were approved by Clean Water Services.

The Design and Construction Plans of the Material recovery Facility (MRF) address the following concerns (please see site plan):

1) Waste water Discharge: All materials received for processing will be dumped under a roof at the end of the existing building. Grading prevents run-on of water from paved and un-paved areas. Only mixed dry waste will be received – hence, no leachate or process water is expected to be generated. There will be no discharge of wastewater from the material recovery facility activity. Stormwater generated on site, from the roof drains as well as any asphalt areas outside the building, will flow to a bioswale that runs the length of the southern property line. This bioswale was engineered and built as part of the site development permit and building construction in 2007-2008.

2) Access Roads: The existing entrance from (south gate) and egress to (north gate) the adjacent public road is designed to provide convenient and safe flow-through of vehicles. This area is paved and dust is controlled by periodic sweeping and watering. The drive to the MRF from the paved area will be an all-weather gravel drive. This will be watered with a water truck during

dry weather to suppress dust. Traffic speed will be posted at 10 mph to minimize noise and dust, and to maximize safety.

3) Drainage: The operational area of the site will be only in the existing building. Grading of the surrounding site is such that all storm water (including roof run-off) will run away from the building and to the bioswale.

4) Fire Protection: A fire hydrant is located near the eastern property line within 70' of the MRF building. During the building permitting process in 2007, the City of Hillsboro fire marshal affirmed that adequate fire protection is provided to this building.

5) Fences: The site has an existing complete perimeter 8' chain link fence with gates at both ingress and egress locations on 25th Avenue.

6) Solid Waste Disposal: All residual solid waste from which recyclable materials are separated will be hauled to a permitted waste disposal facility. An excavator will be used to load either drop-boxes or trailers with residual solid waste. If these boxes or trailers are parked outside the building, they will be covered with water-proof tarps. No waste will be stored on the ground outside. Putrescible waste will not be accepted at the MRF.

7) Truck Washing Facilities: N/A

General MRF Operational Plans

The facility will be open from 7 AM to 6 PM Monday through Friday, and 8 AM to 5 PM on Saturday. Locked entry and egress gates will provide site security outside of operating hours. The facility will employ 3 people: one machine operator and 2 manual sorters. Numbers of sorters will fluctuate with quantity of dry waste received, and will change according to seasonal demand and possible growth of throughput over time.

Storage: All incoming mixed dry waste will be tipped in the receiving area under the east end of the building. Waste will be processed in a first-in – first-out progression and soon after receipt so that sorting on a limited floor area is as efficient as possible. The positive sort for recyclables leaves residual waste that will immediately be placed in 40 CY drop-boxes or trailers for transfer to the Hillsboro landfill or other licensed landfill.

Salvage: A small excavator with a bucket and thumb or clamshell, and a skid steer front loader will be used to cull large recyclables from the waste, and move the waste around to facilitate manual sorting of the smaller recyclables. Laborers will wear coveralls, gloves, dust masks, reflective vests, and hard hats while working on the floor. The sorting will be systematic, orderly, and always supervised by a floor manager. Salvaged materials will be placed in bins and drop boxes and weights of recyclables and

residual waste measured by weighing outbound trucks. Materials will not be allowed to pile up on the floor, due to lack of floor space. This and the lack of putrescible materials will discourage rodents, insects, and any other vectors. Waste stored in trailers or drop boxes until transfer will be covered with water-proof lids or tarps, or parked in the building to prevent generation of leachate.

Nuisance Conditions: The building is sided on the north and east sides, helping to lessen blowing of paper and plastics and dust within the building. Any litter that escapes the building will be controlled with daily litter patrols on the surrounding property and the 8' chain link fence that surrounds the property. Noise from the equipment in the building will be less than current, outdoor equipment operation.

Health Conditions: As mentioned above, vector control will be achieved through timely processing of incoming material, containerizing both recyclables and residual waste as soon as possible, and only receiving mixed DRY waste for processing. Dust will be minimized by judicious use of machinery to move and sift. When workers encounter potentially hazardous materials such as batteries or fluorescent bulbs, these items will be carefully removed and stored in enclosed bins for transfer to appropriate processors or disposal facilities. Hazardous waste clean-up supplies will be kept on site at all times, and employees will be kept up-to-date in proper clean-up procedures.

Records: All records (DEQ and/or Metro) of incoming and outgoing materials will be kept as required by these permits. We understand that these records must be kept for a specific number of years, and ensure that they will be transferred to any possible new owners/operators of the facility.

Complaints: All complaints related to the MRF will be logged by the site manager and kept on site. Complaint response will consist of monitoring the alleged nuisance and noting its existence or lack thereof, and instituting mitigation measures including termination of specific culprit activities, modifying these activities, or taking steps to mitigate impacts caused by these activities.

Waste Handling Operations

Existing Wastes

Wood Waste: Source separated wood waste will continue to be accepted by the facility. This material includes construction wood discards as well as landscape or land-clearing wood. Incoming loads of clean wood waste will continue to be tipped in the area shown in Sheet 1: Layout of Operations. This wood waste is processed into hog fuel and transferred to end users.

Yard Debris: Source separated yard debris will also continue to be accepted by the facility. Landscapers and homeowners with yard debris will be directed to the Yard Debris Pad, as identified on Sheet 1. This material is transferred to licensed and permitted composting facilities.

New Wastes

Source Separated Recyclables: All recyclables accepted by the Hillsboro curbside recycling program as well as scrap metal will be accepted free of charge. Styrofoam will also be accepted for a fee. Bins will

be dedicated and labeled for each specific material (e.g., clear glass, colored glass, plastic containers with necks, etc.). These bins will be placed on the south side of the drive near the MRF Bldg. This drop-off area will be monitored by the MRF manager. Signage will help prevent cross-contamination by careless bin selection.

Mixed dry waste: This material can originate from either commercial or residential sources, and includes everything except wet, putrescible waste, hazardous waste, electronics waste, or special waste.

Waste Receiving:

We will take steps to prevent acceptance of prohibited materials, such as asbestos, covered electronics, pesticides, including:

- Signage at the weigh shack
- Training of employees about unacceptable materials, and how to handle, store and dispose of them safely
- Inclusion of lists of unacceptable materials and relevant details in outreach materials to waste generators and haulers

Incoming loads will be visually inspected when they are being weighed. If prohibited or unauthorized wastes are observed, the driver will be notified that his load cannot be accepted, and he will be given options and contact information for appropriate disposal or processing sites. Records will be kept of rejected loads.

Drivers of loads that are deemed to contain acceptable wastes will be directed to the MRF building. Signage will direct drivers to enter on the west side and to tip their load in the designated area. The tipped materials will be visually inspected again to check for unaccepted wastes. Drivers will be notified if any are found, and either all materials or just the unacceptable materials will be reloaded for removal by the driver. This decision will depend on the likelihood of contamination of acceptable materials by unacceptable materials.

As noted above, tipped materials will be sorted as possible by a small excavator and skid steer loader, which will pull out large and/or heavy objects for recovery. Hand sorting will then be performed by laborers to augment the amount of recovery. Unrecyclable residue will then be pushed to the side to be loaded into 40 CY bins or trailers by a large frond-end loader.

Unacceptable materials (such as fluorescent light bulbs, pesticide containers, or covered electronics) that are found during the floor sort will be placed into appropriate containers for periodic transfer to appropriate disposal sites.

Weights of both recovered materials as well as residuals will be taken as outgoing trucks pass over the scale.

Oregon Department of Environmental Quality
LAND USE COMPATIBILITY STATEMENT (LUCS)

SECTION 1 - TO BE COMPLETED BY APPLICANT

A. Applicant Name: Casey Stroupe	**B. Project Name:** S&H Recycling
Contact Name: Will Gehr	**Physical Address:** 1748 NE 25th Avenue
Mailing Address: 20200 SW Stafford Road	**City, State, Zip:** Hillsboro, OR 97124
City, State, Zip: Tualatin	**Tax Lot #:** 100
Telephone: 503-841-7543	**Township:** 1N **Range:** 2W **Section:** 29
Tax Account #: R689785	**Latitude:** 45.537525
	Longitude: -122.956837

C. Describe the project, include the type of development, business, or facility and services or products provided (attach additional information if necessary):

Propose to build and operate a material recovery facility that will process dry, commercial waste, such as commingled construction wastes. Equipment and labor will be used to extract for recycling the following materials: concrete, gypsum, wood, ferrous metal, non-ferrous metal, cardboard, paper, glass, film plastic, hard plastic, and carpet and pad.

D. Check the type of DEQ permit(s) or approval(s) being applied for at this time.

- ☐ Air Quality Notice of Construction
- ☐ Air Contaminant Discharge Permit *(excludes portable facility permits)*
- ☐ Air Quality Title V Permit
- ☐ Air Quality Indirect Source Permit
- ☐ Parking/Traffic Circulation Plan
- ☐ Solid Waste Land Disposal Site Permit
- ☐ Solid Waste Treatment Facility Permit
- ☐ Solid Waste Compost Facility Registration or Permit
- ☐ Solid Waste Letter Authorization Permit
- ☒ Solid Waste Material Recovery Facility Permit
- ☐ Solid Waste Energy Recovery Facility Permit
- ☐ Solid Waste Transfer Station Permit
- ☐ Waste Tire Storage Site Permit
- ☐ Pollution Control Bond Request
- ☐ Hazardous Waste Treatment, Storage, or Disposal Permit
- ☐ Clean Water State Revolving Fund Loan Request
- ☐ Wastewater/Sewer Construction Plan/Specifications *(includes review of plan changes that require use of new land)*
- ☐ Water Quality NPDES Individual Permit
- ☐ Water Quality WPCF Individual Permit *(for onsite construction-installation permits use the DEQ Onsite LUCS form)*
- ☐ Water Quality NPDES Stormwater General Permit *(1200-A, 1200-C, 1200-CA, 1200-COLS, and 1200-Z)*
- ☐ Water Quality General Permit *(all general permits, except 600, 700-PM, 1700-A, and 1700-B when they are mobile.)*
- ☐ Water Quality 401 Certification for federal permit or license

E. This application is for: ☐ Permit Renewal ☒ New Permit ☐ Permit Modification ☐ Other:

SECTION 2 - TO BE COMPLETED BY CITY OR COUNTY PLANNING OFFICIAL

Instructions: Written findings of fact for all local decisions are required; written findings from previous actions are acceptable. For uses allowed outright by the acknowledged comprehensive plan, DEQ will accept written findings in the form of a reference to the specific plan policies, criteria, or standards that were relied upon in rendering the decision with an indication of why the decision is justified based on the plan policies, criteria, or standards.

A. The project proposal is located: ☒ Inside city limits ☐ Inside UGB ☐ Outside UGB

B. Name of the city or county that has land use jurisdiction *(the legal entity responsible for land use decisions for the subject property or land use)*:

CITY OF HILLSBORO

Oregon Department of Environmental Quality
LAND USE COMPATIBILITY STATEMENT (LUCS)

SECTION 2 - TO BE COMPLETED BY CITY OR COUNTY PLANNING OFFICIAL

Applicant Name: CASEY STROUPE **Project Name:** S & H RECYCLING.

C. Is the activity or use allowed under Measure 49? ☒ No. Measure 49 is not applicable ☐ Yes; if yes, then check one:

☐ Express; approved by DLCD order #:

☐ Conditional; approved by DLCD order #:

☐ Vested; approved by local government decision or court judgment docket or order #:

D. Is the activity or use compatible with your acknowledged comprehensive plan as required by OAR 660-031?
Please complete this form to address the activity or use for which the applicant is seeking approval (see 1.C on the previous page). If the activity or use is to occur in multiple phases, please ensure that your approval addresses the phases described in 1.C. For example, if the applicant's project is described in 1.C as a subdivision and the LUCS indicates that only clearing and grading are allowed outright but does not indicate whether the subdivision is approved, DEQ will delay permit issuance until approval for the subdivision is obtained from the local planning official.

☐ The activity or use is not regulated by the acknowledged comprehensive plan; explain:

☐ **YES**, the activity or use is pre-existing nonconforming use allowed outright by *(provide reference for local ordinance)*:

☐ **YES**, the activity or use is allowed outright by *(provide reference for local ordinance)*:

☐ **YES**, the activity or use received preliminary approval that includes requirements to fully comply with local requirements; findings are attached.

☒ **YES**, the activity or use is allowed; findings are attached.

☐ **NO**, see 2.C above, activity or use allowed under Measure 49; findings are attached.

☐ **NO**, *(complete below or attach findings for noncompliance and identify requirements the applicant must comply with before compatibility can be determined)*:

Relevant specific plan policies, criteria, or standards:

Provide the reasons for the decision:

Additional comments (attach additional information as needed):

Planning Official Signature: [signature] **Title:** URBAN PLANNER III

Print Name: BRUCE RIEES **Telephone #:** 503 681-6209 **Date:** 7-21-10

If necessary, depending upon city/county agreement on jurisdiction outside city limits but within UGB:

Planning Official Signature: **Title:**

Print Name: **Telephone #:** **Date:**

11/26/08v

08-WR-006

CITY OF HILLSBORO

November 16, 2006

Casey Stroupe
Landscape Products & Supply
20200 SW Stafford Road
Tualatin, OR 97062

DEVELOPMENT REVIEW COMMENTS FOR Storage Building – DR 69-06

Dear Casey,
This letter is to inform you that your project has received Development Review approval from the City of Hillsboro Planning Department, and drawings may submitted to the Building Inspection Department for building permit approval. However, the following requirements outlined below must be resolved *prior to, or at the time of building permit submittal.* In addition, prior to building permit submittal, please submit a brief written response to each of the following comments to the Planning Department. Any revisions necessitated by the below requirements should be shown on a revised set of plans, a copy of which should be submitted to the Planning Department as well.

BUILDING DEPT. Mike Gieszler 681-6106

1. See attached letter with comments.

ENGINEERING DEPT. Roy Gibson 681-6148

2. Provide water quality for the added impervious area per Clean Water Services standards.

PLANNING DEPT. Bruce Bier 681-6209

3. The building permit application submittal shall include notes on the site, landscaping, or utility plans and/or building elevations, and/or a narrative, clearly identifying how the Development Review comments have been addressed.

WATER DEPT. Bernie Monahan 615-6591

4. See attached letter with comments.

If you have any questions on the above requirements, please call the individual contact person specified for each department. Any revisions necessitated by the above requirements should be shown on a revised set of plans, a copy of which should be submitted to the Planning Department. The revised plans should also be submitted to the Building Department for building permits.

Sincerely,
CITY OF HILLSBORO PLANNING DEPARTMENT

Bruce Bieri ASLA
Urban Planner III

Business Registry Business Name Search

New Search

Business Entity Data

01-25-2013
14:20

Registry Nbr	Entity Type	Entity Status	Jurisdiction	Registry Date	Next Renewal Date	Renewal Due?
104236-14	DBC	ACT	OREGON	12-31-1973	12-31-2013	
Entity Name	S & H LOGGING CO.					
Foreign Name						

New Search

Associated Names

Type	PPB	PRINCIPAL PLACE OF BUSINESS				
Addr 1	20200 SW STAFFORD RD					
Addr 2						
CSZ	TUALATIN	OR	97062	0000	Country	UNITED STATES OF AMERICA

Please click here for general information about registered agents and service of process.

Type	AGT	REGISTERED AGENT	Start Date	01-17-1986	Resign Date	
Name	DUANE		STROUPE			
Addr 1	20200 SW STAFFORD RD					
Addr 2						
CSZ	TUALATIN	OR	97062		Country	UNITED STATES OF AMERICA

Type	PRE	PRESIDENT			Resign Date	
Name	DUANE		STROUPE			
Addr 1	20200 SW STAFFORD RD					
Addr 2						
CSZ	TUALATIN	OR	97062		Country	UNITED STATES OF AMERICA

Type	SEC	SECRETARY			Resign Date	
Name	LORETTA		STROUPE			
Addr 1	20200 SW STAFFORD RD					
Addr 2						
CSZ	TUALATIN	OR	97062		Country	UNITED STATES OF AMERICA

New Search

Name History

Business Entity Name	Name Type	Name Status	Start Date	End Date
S & H LOGGING CO.	EN	CUR	12-31-1973	

Please read before ordering Copies.

New Search

Summary History

Image Available	Action	Transaction Date	Effective Date	Status	Name/Agent Change	Dissolved By
	ANNUAL REPORT PAYMENT	11-20-2012		SYS		
	ANNUAL REPORT PAYMENT	12-02-2011		SYS		
	ANNUAL REPORT PAYMENT	11-29-2010		SYS		
	ANNUAL REPORT PAYMENT	12-08-2009		SYS		
	ANNUAL REPORT PAYMENT	12-02-2008		SYS		
	ANNUAL REPORT PAYMENT	11-30-2007		SYS		
	ANNUAL REPORT PAYMENT	11-28-2006		SYS		
	ANNUAL REPORT PAYMENT	12-12-2005		SYS		
	ANNUAL REPORT PAYMENT	12-01-2004		SYS		
	ANNUAL REPORT PAYMENT	12-09-2003		SYS		
	ANNUAL REPORT PAYMENT	12-03-2002		SYS		
	ANNUAL REPORT PAYMENT	11-26-2001		SYS		
	STRAIGHT RENEWAL	12-19-2000		FI		
	STRAIGHT RENEWAL	12-21-1999		FI		
	STRAIGHT RENEWAL	11-24-1998		FI		
	STRAIGHT RENEWAL	12-11-1997		FI		
	STRAIGHT RENEWAL	12-16-1996		FI		
	STRAIGHT RENEWAL	12-18-1995		FI		
	AMENDED RENEWAL	12-20-1994		FI		

	AMENDED RENEWAL	01-04-1994		FI		
	STRAIGHT RENEWAL	11-24-1992		FI		
	AMENDED RENEWAL	12-10-1991		FI		
	STRAIGHT RENEWAL	11-30-1990		FI		
	AMENDED RENEWAL	12-18-1989		FI		
	STRAIGHT RENEWAL	12-02-1988		FI		
	STRAIGHT RENEWAL	11-23-1987		FI		
	STRAIGHT RENEWAL	11-21-1986		FI		
	AMENDED RENEWAL	01-17-1986		FI		
	STRAIGHT RENEWAL	11-13-1984		FI		
	IMAGE NEW	12-31-1973		FI		

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SOLID WASTE DISPOSAL SITE COMPATIBILITY WITH SOLID WASTE MANAGEMENT PLAN

Oregon Administrative Rules (OAR) 340-93-070 (4)(b) requires applicants for new or existing solid waste disposal sites to submit written recommendations of local solid waste planning authorities. This document is provided for your convenience. Please submit this form to the local solid waste planning authority having jurisdiction for the geographic area in which the facility is located. Then include the signed form in the DEQ Solid Waste disposal site application and submit to DEQ at the appropriate address.

☐ The proposed new or expansion of an existing solid waste disposal site **is compatible** with the local solid waste Management Plan and there **is a need** for the facility.

☐ The proposed new or expansion of an existing solid waste disposal site **is not compatible** with the local solid waste Management Plan and/or there **is no need** for the facility. Please briefly describe reasons:

Added by Metro:

☑ The proposed solid waste disposal site is compatible with the Regional Solid Waste Management Plan. Metro offers no opinion about the need for the facility.

S&H Recycling
1748 NE 25th Avenue
Hillsboro, OR 97124

Metro Regional Solid Waste Management Plan — Approved by Metro Council on 7/24/08
Name of Solid Waste Management Plan — Effective Date

Matt Korot — Metro Resource Conservation & Recycling Program Director
Name of Solid Waste Management Authority responsible for plan implementation — Title

Matt Korot
Signature of Solid Waste Management Authority responsible for plan implementation — 8/3/10 Date

If you have any questions please call DEQ's Solid Waste Permits Coordinator at 503/229-5353.

Landscape Products Expansion

J.O. SGL 06-152

November 13, 2007

WATER QUALITY CALCULATIONS

SISUL ENGINEERING
A Division of Sisul Enterprises, Inc.
375 PORTLAND AVE.
Gladstone, OR 97027
phone: (503) 657-0188
fax: (503) 657-5779

RECEIVED
NOV 26 2007
CITY OF HILLSBORO
BUILDING DEPT

WATER QUALITY CALCULATIONS:

This storm system uses water quality swales to satisfy the water quality requirements. The swale was designed to treat the impervious area from the entire site. The impervious areas were calculated graphically from AutoCAD drawings of the site.

Impervious area:

Existing building and parking area = 67,549 sq.ft
Proposed new building and parking area = 33,797 sq.ft
Area to be graded to south swale = 60,335 sq. ft.
(Future impervious area)

Total impervious area = <u>161,701 sq.ft.</u>

Water quality flow:

The water quality flow was calculated by taking 0.36 inches of precipitation over 100% of the new impervious area.

$$\text{Water Quality Flow(cfs)} = \frac{0.36(in)xArea(sf)}{12(in/ft)(4hr)60(\text{min}/hr)60(\text{sec}/\text{min})}$$

$$\text{Water Quality Flow(cfs)} = \frac{0.36(in)x161{,}701(sf)}{12(in/ft)(4hr)60(\text{min}/hr)60(\text{sec}/\text{min})} = 0.34\text{cfs}$$

The swale has been designed to have a hydraulic residence time of at least 9 minutes with a minimum length of 100'. The actual length of the swale is 100'. The bottom width is 2' with 4:1 side slopes in the treatment area.

L=100'
S=0.0050
N=0.24

$$\text{Residence time(min.)} = \frac{100(ft)x1(\text{min.})}{.17(ft/\text{sec.})60(\text{sec}/\text{min})}$$

Residence time(min.) = **9.80 minutes > 9 minutes.**
The "Flowmaster" computer software was used to determine the velocity in the swale.

Haestad Methods FlowMaster I version 3.13

Trapezoial

Comment: WATER QUALITY SWALE

Solve For.....Depth

Bottom Width...	2.00 ft	Velocity.....	**0.20 fps**
Lt Side Slope..	4.00:1 (H:V)	Flow Area.....	1.73 sf
Rt Side Slope..	4.00:1 (H:V)	Flow Top Width..	5.63 ft
Manning's n....	0.240	Wetted Perimeter	5.74 ft
Channel Slope..	0.0050 ft/ft	Critical Depth..	0.09 ft
Depth.....	**0.45 ft**	Critical Slope..	1.9831 ft/ft
Discharge.....	0.34 cfs	Froude Number...	0.06

Enter Worksheet Description
<F1> Help <F2> Print <F3> Calculator <PgDn> Create Table <ESC> Exit

Water Quality Summary:

The new impervious area all flows to the south swale. The existing impervious area will continue to flow to either the existing north swale or the regarded south swale. The water quality flow for the entire site will be treated by a single 100' long water quality swale (south swale).

Conveyance for the 25 year storm:

The rainfall intensity curve was used to determine the 25 year storm flows for this site. A conservative minimum time of concentration of 5 minutes was used to select a rainfall intensity of 3.40 inches per hour. The rational method was used to determine the 25 year flow.

Q (cfs) = C*A*i = Area * Runoff Coefficient * Rainfall Intensity
New Area = 2.21 Acres
Existing Imp Area = 1.55 Acres
Runoff coefficient = 0.9
Rainfall Intensity (using 5 minute Tc)
i = 3.40 inches/hour

Qt = 0.9 * 3.40 * 3.71 = **11.36** cfs

However, at least half of the runoff from the existing impervious area will continue to be directed to the existing north swale. The reaming part will go to the south swale

$$Qe = \frac{0.9 * 3.40 * 1.55}{2} = \mathbf{2.37} \text{ cfs}$$

$$Q = Qt - Qe = 11.36 - 2.37 = 8.99 \text{ cfs}$$

Therefore, 9.78 cfs will be used as the 25 year design flow for the south swale.

The "Flowmaster" computer software was used to calculate the depth in the channel.
Haestad Methods FlowMaster I version 3.13

25-year flow check upstream of water quality swale:

Trapezoidal

Comment: 25 YEAR SWALE CONVEYANCE

Solve For.....Depth

Bottom Width...	2.00 ft	Velocity.....	2.11 fps
Lt Side Slope..	2.50:1 (H:V)	Flow Area.....	4.25 sf
Rt Side Slope..	2.50:1 (H:V)	Flow Top Width..	6.82 ft
Manning's n....	0.035	Wetted Perimeter	7.19 ft
Channel Slope..	0.0050 ft/ft	Critical Depth.	0.6 5 ft
Depth.....	**0.96 ft**	Critical Slope..	0.0248 ft/ft
Discharge.....	8.99 cfs	Froude Number...	0.47

Enter Worksheet Description
<F1> Help <F2> Print <F3> Calculator <PgDn> Create Table <ESC> Exit

APPENDIX 3.1

	Manning's n range
B. Earth, fairly uniform section:	
1. No vegetation	0.022-0.025
2. Grass, some weeds	0.025-0.030
3. Dense weeds or aquatic plants in deep channels	0.030-0.035
4. Sides clean, gravel bottom	0.025-0.030
5. Sides clean, cobble bottom	0.030-0.040
C. Dragline excavated or dredged:	
1. No vegetation	0.028-0.033
2. Light brush on banks	0.035-0.050
D. Rock:	
1. Based on design section (riprap)	0.035
2. Based on actual mean section:	
a. Smooth and uniform	0.035-0.040
b. Jagged and irregular	0.040-0.045
E. Channels not maintained, weeds and brush uncut:	
1. Dense weeds, high as flow depth	0.08-0.12
2. Clean bottom, brush on sides	0.05-0.08
3. Clean bottom, brush on sides, highest stage of flow	0.07-0.11
4. Dense brush, high stage	0.10-0.14

IV. Highway Channels and Swales with Maintained Vegetation
(range values are for velocities of 2 and 6 fps)

A. Depth of flow up to 0.7 foot:	
1. Bermudagrass, Kentucky bluegrass, buffalograss:	
a. Mowed to 2 inches	0.07-0.045
b. Length 4 to 6 inches	0.09-0.05
2. Good stand, any grass:	
a. Length about 12 inches	0.18-0.09
b. Length about 24 inches	0.30-0.15
3. Fair stand, any grass:	
a. Length about 12 inches	0.14-0.08
b. Length about 24 inches	0.25-0.13

Table 2.1

RUNOFF COEFFICIENTS FOR THE RATIONAL METHOD

	FLAT	ROLLING 2% - 10%	HILLY OVER 10%
Pavement & Roofs	0.90	0.90	0.90
Earth Shoulders	0.50	0.50	0.50
Drives & Walks	0.75	0.80	0.85
Gravel Pavement	0.50	0.55	0.60
City Business Areas	0.80	0.85	0.85
Apartment Dwelling Areas	0.50	0.60	0.70
Light Residential: 1 to 3 units/ac.	0.35	0.40	0.45
Normal Residential: 3 to 6 units/ac.	0.50	0.55	0.60
Dense Residential: 6 to 15 units/ac.	0.70	0.75	0.80
Lawns	0.17	0.22	0.35
Grass Shoulders	0.25	0.25	0.25
Side Slopes, Earth	0.60	0.60	0.60
Side Slopes, Turf	0.30	0.30	0.30
Median Areas, Turf	0.25	0.30	0.30
Cultivated Land, Clay & Loam	0.50	0.55	0.60
Cultivated Land, Sand & Gravel	0.25	0.30	0.35
Industrial Areas, Light	0.50	0.70	0.80
Industrial Areas, Heavy	0.60	0.80	0.90
Parks & Cemeteries	0.10	0.15	0.25
Playgrounds	0.20	0.25	0.30
Woodland & Forests	0.10	0.15	0.20
Meadows & Pasture Land	0.25	0.30	0.35
Unimproved Areas	0.10	0.20	0.30

2.4.7.2 Rainfall Intensity "i"

The rainfall intensity "i" indicates the severity of the rainfall. Rainfall intensity is related to the rainfall duration and the statistical recurrence interval of the design storm. In the rational method the rainfall intensity corresponding to a duration equal to the time of concentration (Sec. 2.4.7.3) is used to calculate the peak flow. The rainfall intensity can be selected from the appropriate intensity-duration-frequency (I-D-F) curve found in Appendix 2.A.

Google maps Address **1748 NE 25th Ave**
Hillsboro, OR 97124

Get Google Maps on your phone
Text the word "GMAPS" to 466453

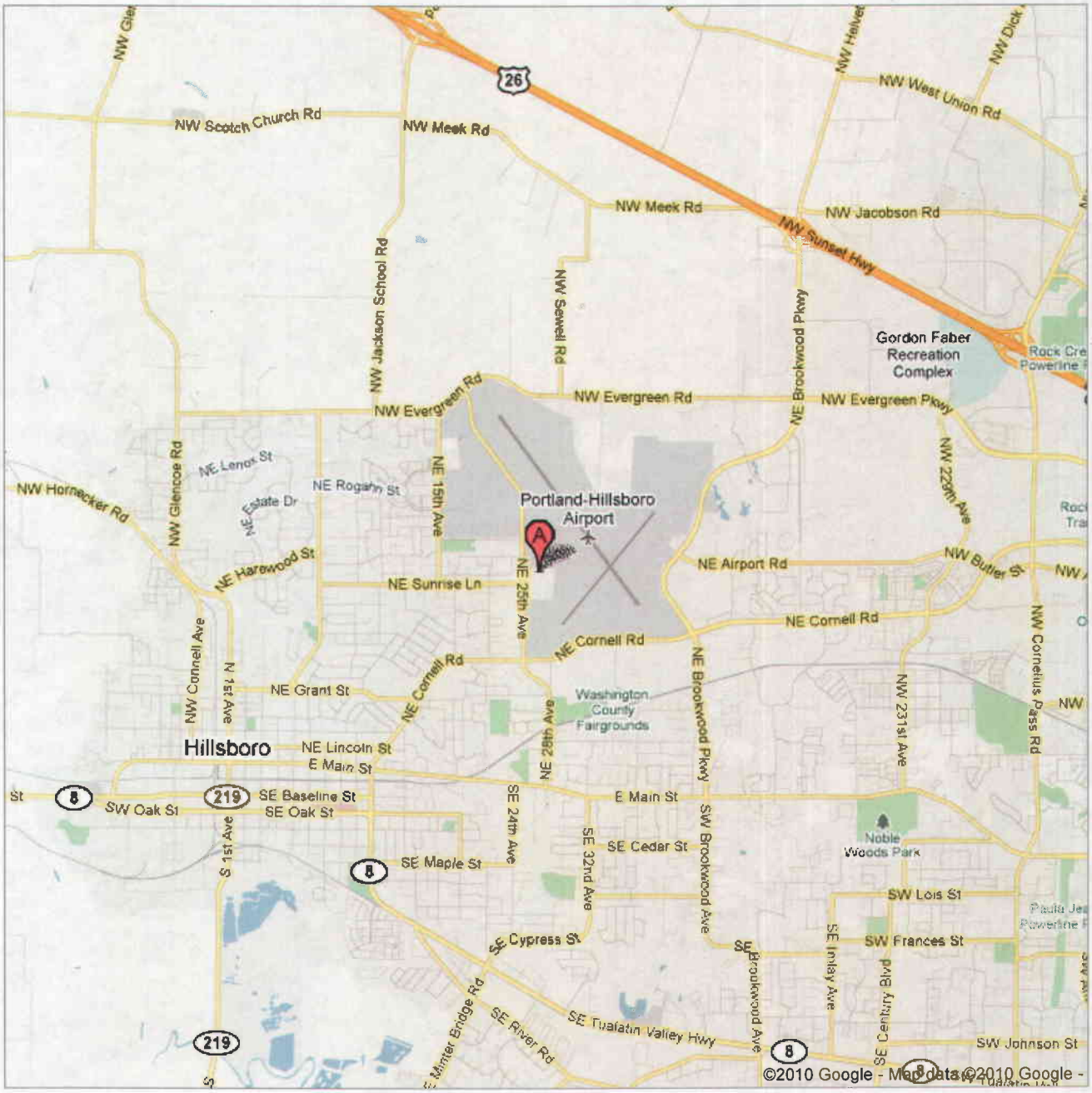


FIGURE 1

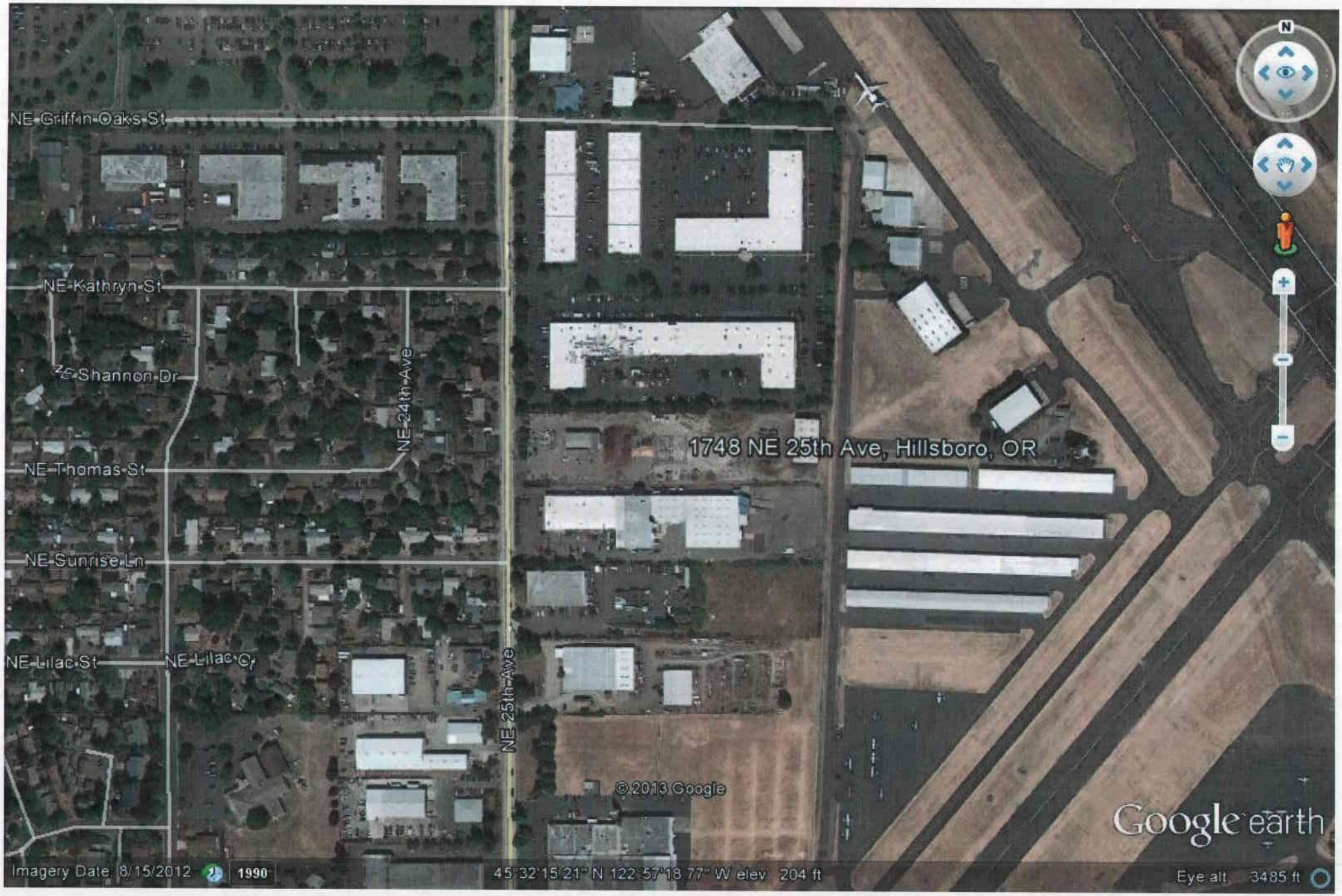

NE Griffin Oaks St
NE Kathryn St
NE Shannon Dr
NE 24th Ave
NE Thomas St
NE Sunrise Ln
NE Lilac St
NE Lilac Cr
NE 25th Ave
1748 NE 25th Ave, Hillsboro, OR
©2013 Google
Google earth
Imagery Date: 8/15/2012
1990
45°32'15.21" N 122°57'18.77" W elev 204 ft
Eye alt 3485 ft

FIGURE 2

Erosion and Sediment Control Requirements:

1. The intent of the requirements is to prevent siltation from reaching storm drain systems and drainage ways. The erosion and sediment control (ESC) facilities shown on this plan are the minimum requirements for anticipated site conditions. During the construction period, these ESC facilities shall be upgraded as needed for unexpected storm events and to ensure that sediment laden water does not leave the site.
2. The following controls and practices are required:
   a) Each site shall have gravelled or paved entrances, aisle and parking areas, prior to beginning any other work. To reduce the tracking of sediment onto public or private roads.
   b) All unpaved roads located on-site shall be gravelled. Other effective erosion and sediment control measures either on the road or down gradient may be used in place of gravelling.
   c) When tracking saturated soils from the site, either water-tight trucks shall be used or loads shall be drained on-site until dripping has been reduced to insignificant amounts on roads.
   d) Concrete trucks being washed out: wash shall be parked in a location that will prevent all wash water from entering the storm drain system without proper filtration. Concrete removals and residue shall be properly disposed of.
3. Additional controls and practices shall be developed that are appropriate for the site. At a minimum the following shall be considered:
   a) Whenever practicable, clearing and grading shall be done in a phased manner to prevent exposed inactive areas from becoming a source of erosion.
   b) In developing vegetative erosion control practices, at a minimum the following shall be considered: temporary seeding, permanent seeding, mulching, sod stabilization, vegetative buffer strips, and protection of trees with protective construction fences.
   c) The following shall be considered for the protection of exposed areas and the prevention of soil from being eroded by storm water: mulching with straw or other vegetation, use of erosion control blankets, and application of soil tackifiers.
   d) The following shall be considered for the diversion of flows from exposed soil store flows to allow for sedimentation: filter fence or otherwise restrict sediment laden runoff, use of silt fences, earth dikes, trench barriers, drainage swales, check dams, subsurface drains, pipe slope drains, rock outlet protection, sediment traps, and temporary or permanent sedimentation basins. All temporary sediment control practices shall not be removed until permanent vegetation or other cover of exposed areas is established.
   e) The following shall be considered to prevent the stockpiles from becoming a source of erosion: diversion of uncontaminated flows around stockpiles, use of cover over stockpiles, and installation of silt fences around stockpiles.
4. The following maintenance activities shall be implemented:
   a) Significant amounts of sediment that leave the site shall be cleaned up within 24 hours and placed back on the site or properly disposed. Any in-stream clean up of sediment shall be performed according to Oregon Division of State Lands' required timeframe.
   b) Under no conditions shall sediment intentionally be washed into storm sewer or drainage way unless it is captured by a BMP before entering receiving waters.
   c) For a filter fence, the trapped sediment shall be removed when it reaches one third of the above ground fence height.
   d) For catch basin protection, cleaning must occur when design capacity has been reduced by fifty percent.
   e) For a sediment basin, removal of trapped sediments shall occur when design capacity has been reduced by fifty percent.
   f) All erosion and sediment controls not in the direct path of work shall be installed before any land disturbance.
   g) If fertilizers are used to establish vegetation, the application rates shall follow manufacturer's guidelines and the application shall be done in such a way to minimize nutrient-laden runoff to receiving waters.
   h) If construction activities cease for thirty (30) days or more, the entire site must be stabilized, using vegetation or a heavy mulch layer, temporary seeding or another method that does not require germination to control erosion.
   i) Any use of toxic or other hazardous materials shall include proper storage, application, and disposal.
   j) The permittee shall manage abandoned hazardous wastes, unused site, contaminated soils or other toxic substances discovered during construction activities in a manner approved by the Department of Environmental Quality.

Erosion and Sediment Control Inspection Requirements:

1. All sites 1 acre and greater shall have a person with knowledge and experience in construction storm water control and management practices conduct all inspections. The inspector shall keep a written record of each inspection.
2. Active Site: Frequency of inspections shall be daily during storm water runoff or snowmelt runoff and at least once every seven (7) calendar days and within 24 hours after any storm event of greater than 0.5 inches of rain per 24-hour period.
3. Inactive Sites: During inactive periods of greater that seven (7) consecutive calendar days, inspections shall only be required once every ten (10) weeks. Prior to discontinuing activities at the site, any exposed area shall be stabilized to prevent erosion. Stabilization may occur by applying appropriate cover (mulch, erosion control blanket, soil tackifier, etc.) or establishing adequate vegetative cover.

Seeding/Mulching:

1. All areas disturbed during construction to be graded to drain and compacted to a minimum of 90% of AASHTO T-99 immediately after installation of utilities or grading.
2. Recommended Seed Mixture: 80% PR 8820 Dwarf Perennial Ryegrass and 20% Creeping Red Fescue, by weight. Application Rate shall be 100 pounds minimum per acre.
3. Fertilizer shall be 12-16-8 with 50% of the nitrogen derived from UREA FORMALDEHYDE, and applied at a rate of 400 pounds per acre.
4. Seed and mulch at a rate of 2000 lbs/Ac with heavy bonding agent or netting and anchors. Mulch shall be a wood cellulose fiber or other material suitable for hydromulching.
5. Temporary or Permanent hydroseeding or acceptable seeding and mulching must be provided wherever permanent cover cannot be established on sites which will be exposed for 60 days or more.

Sediment Fence:

1. The filter fabric shall be purchased in a continuous roll cut to the length of the barrier to avoid use of joints. When joints are necessary, filter cloth shall be spliced together only at a support post, with a minimum 6 inch overlap, and both ends securely fastened to the post.
2. The filter fabric fence shall be installed to follow the contours, where feasible. Then fence posts shall be spaced a maximum of six feet apart and a driven securely into the ground a minimum of 16 inches.
3. A trench shall be excavated, roughly 6 inches wide by 6 inches deep, upslope and adjacent to the wood post to allow the filter fabric to be buried. Bury the bottom of the fabric 6" vertically below finished grade. All areas of filter fabric trench shall be compacted.
4. The filter fabric shall be installed with stitched loops over fence posts. The fence post shall be constructed of 2" x 2" fir, pine, or steel. The fence post must be a minimum of 48" long. The filter fabric end not be stapled or attached to existing trees.
5. Sediment fences shall be removed when they have served their useful purpose, but not before the upslope area has been permanently stabilized.
6. Sediment fences shall be inspected by applicant/contractor immediately after each rainfall, and at least daily during prolonged rainfall. Any required repairs shall be made immediately

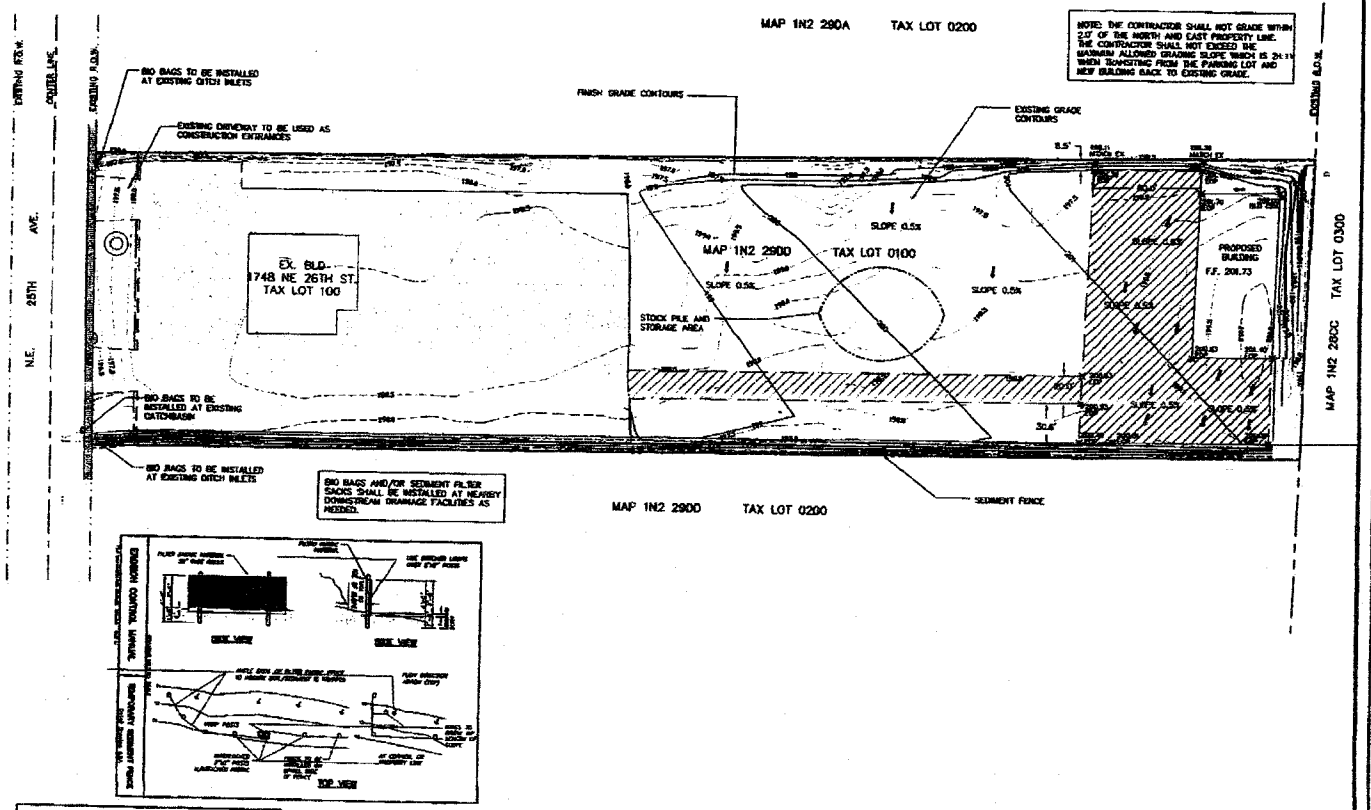
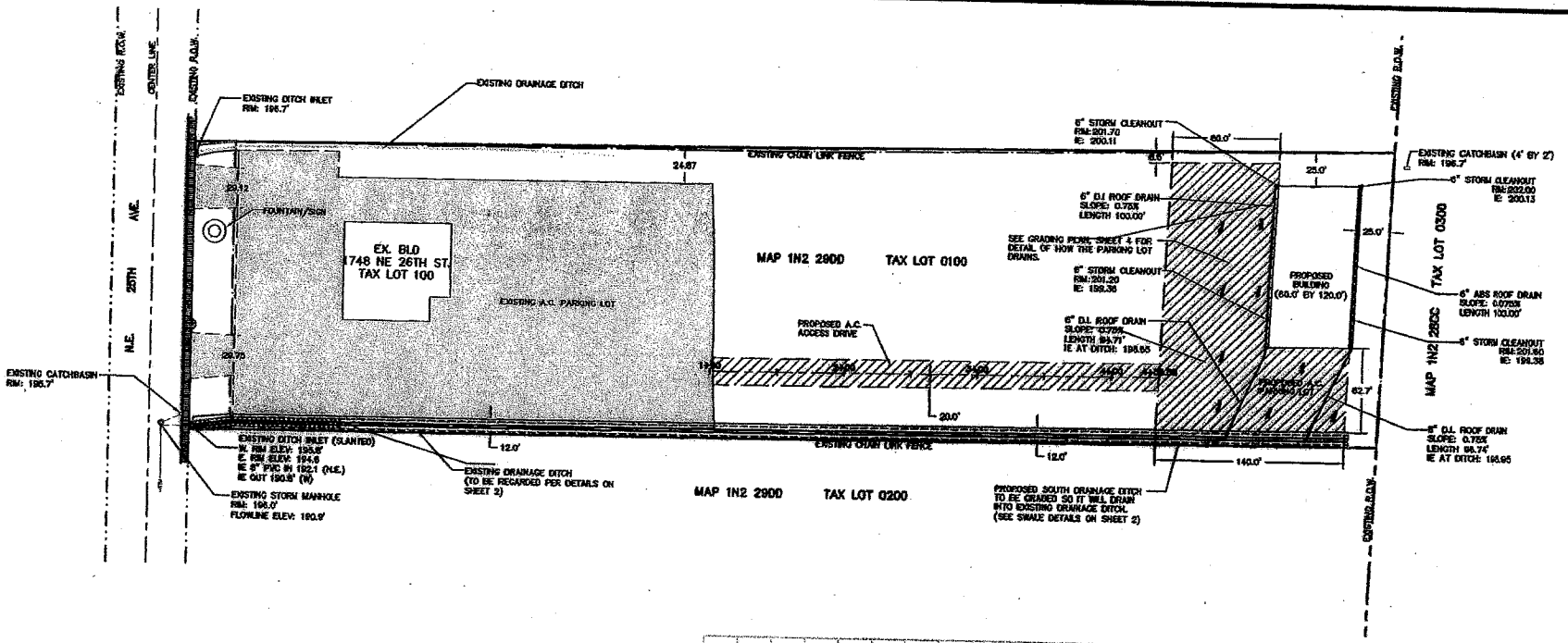
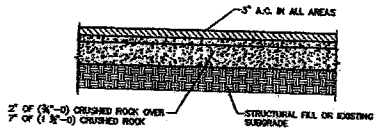
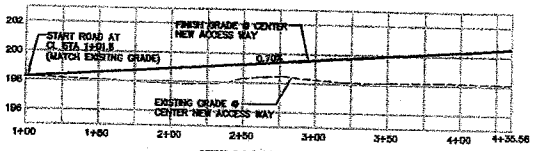


FIGURE 3 TOPOGRAPHY

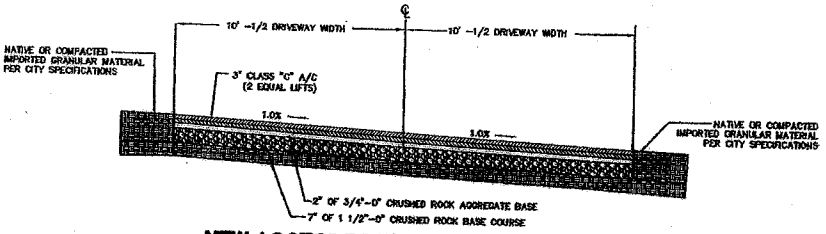




TYPICAL PARKING LOT PAVING DETAIL
N.T.S.



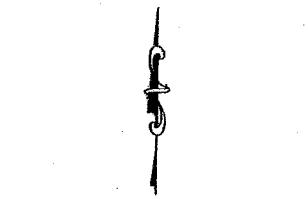
NEW ACCESS DRIVE PROFILE
SCALE: HORZ. 1" = 40'
VERT. 1" = 40'
NTS



NEW ACCESS DRIVE TYPICAL SECTION
NTS

Parking Lot:
1. Engineered fill shall be placed on areas stripped of all organic materials in lifts not to exceed 8-inches in depth and each layer shall be separately and thoroughly compacted.
2. Material in soft spots within the parking lot shall be removed to the depth required to provide a firm foundation and shall be replaced with 1-1/2"-0" crushed rock. The native subgrade shall be thoroughly compacted at the lowest moisture content at which a bowling of soil can be avoided by a firm closing of the hand. (DIRT composition AASHTO T99), conforming to APWA Division 2, Section 2013.03 and 209.3.05.
3. The aggregate road base shall be 3/4"-0" and 1 1/2"-0" crushed rock. Rock depth shown on typical section is the minimum depth required. A thicker section may be required depending upon ground conditions.
4. The asphalt concrete pavement shall be as noted on the typical section.
5. Excess excavation shall be spread and compacted evenly on the site in depths of less than one foot per the site grading plan. Vegetation and topsoil to be stripped on fill areas prior to filling. Composition of 95% of AASHTO T99 material is required in buildable areas, 90% composition required in non-buildable areas.

Storm Drain:
1. Storm drain pipe shall conform to ASTM C-14 non-reinforced concrete pipe, Class 3, ASTM 3034 PVC pipe, or as specified on the plan/profile.
2. Catch basins shall be poured in place concrete with a minimum compressive strength of 3000 psi. Frame and grate shall be fabricated of structural steel, ASTM A-7, A-36, or A-373 in accordance with the details shown on the detail sheets of the plan.
3. Pipe backfill in all pipe zone areas is to be 3/4"-0" crushed rock. Trench backfill in areas to be paved to have full depth rock backfill.
4. Trench backfill is to be compacted to 95% maximum dry density per AASHTO T 99 test method and native material shall be compacted to 95% of in place dry density of surrounding soil.
5. Storm drain lines are to conform to materials, installation and testing requirements as required by Clean Water Services R&O 04-9 and the Oregon State Plumbing Specialty Code.
6. Riprap where noted on the plans is to be Class 50 in accordance with CWS R&O 04-9 Oregon State Highway Division specification 714.



REGISTERED PROFESSIONAL ENGINEER
12,820
OREGON
JAN. 14, 1986
RENEWAL DATE 12-31-08

REVISIONS	BY

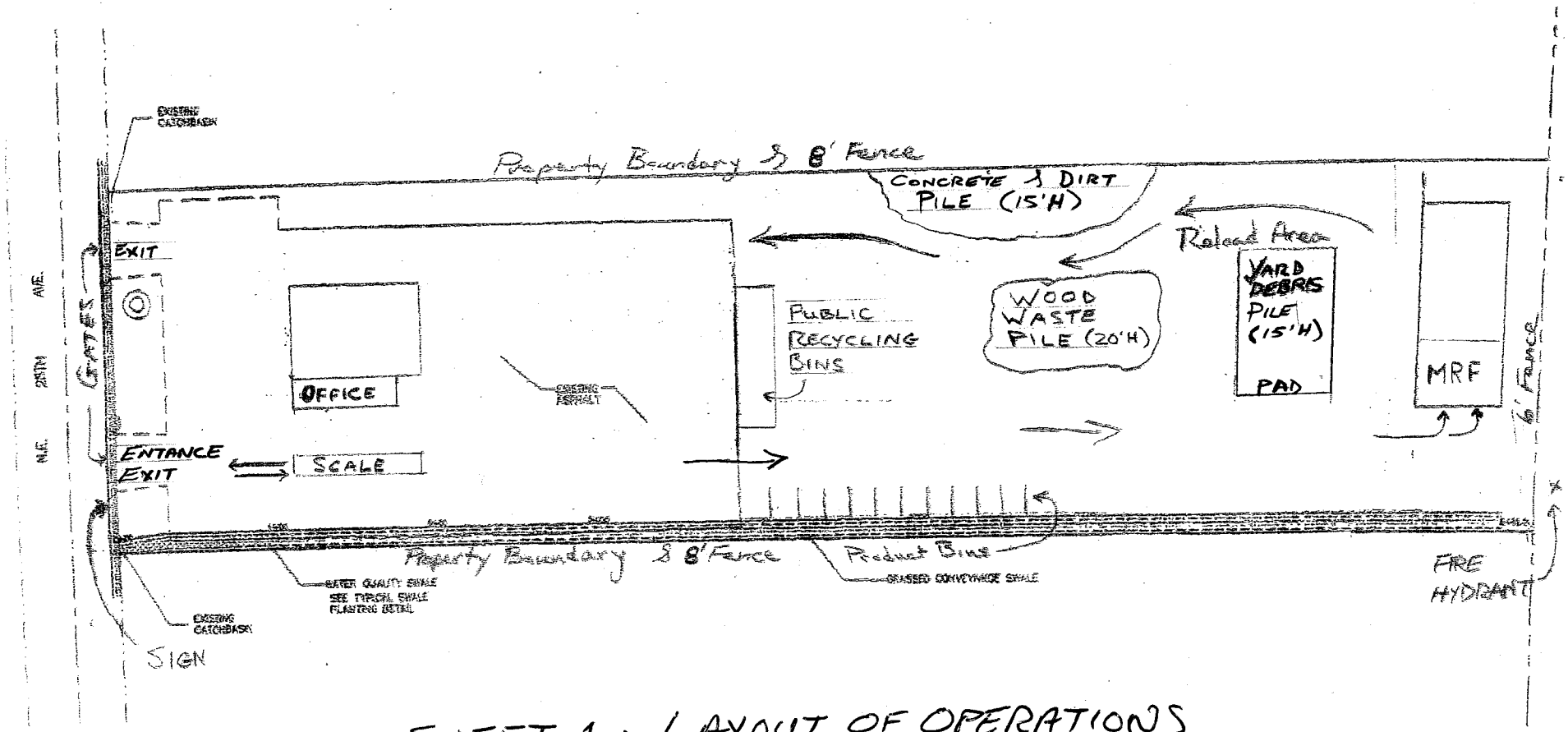
LANDSCAPE PRODUCTS STORE EXPANSION
LANDSCAPE PRODUCTS

Site Plan

SBL ENGINEERING
SUITE 100, 1000 SW BROADWAY
PORTLAND, OREGON 97205
(503) 227-1254
DRAWING: SBL 06-153 SITE PLAN.DWG

DATE NOV. 2007
SCALE 1" = 40'
DRAWN JSF
JOB SBL 06-152
SHEET 1 OF 6 SHEETS

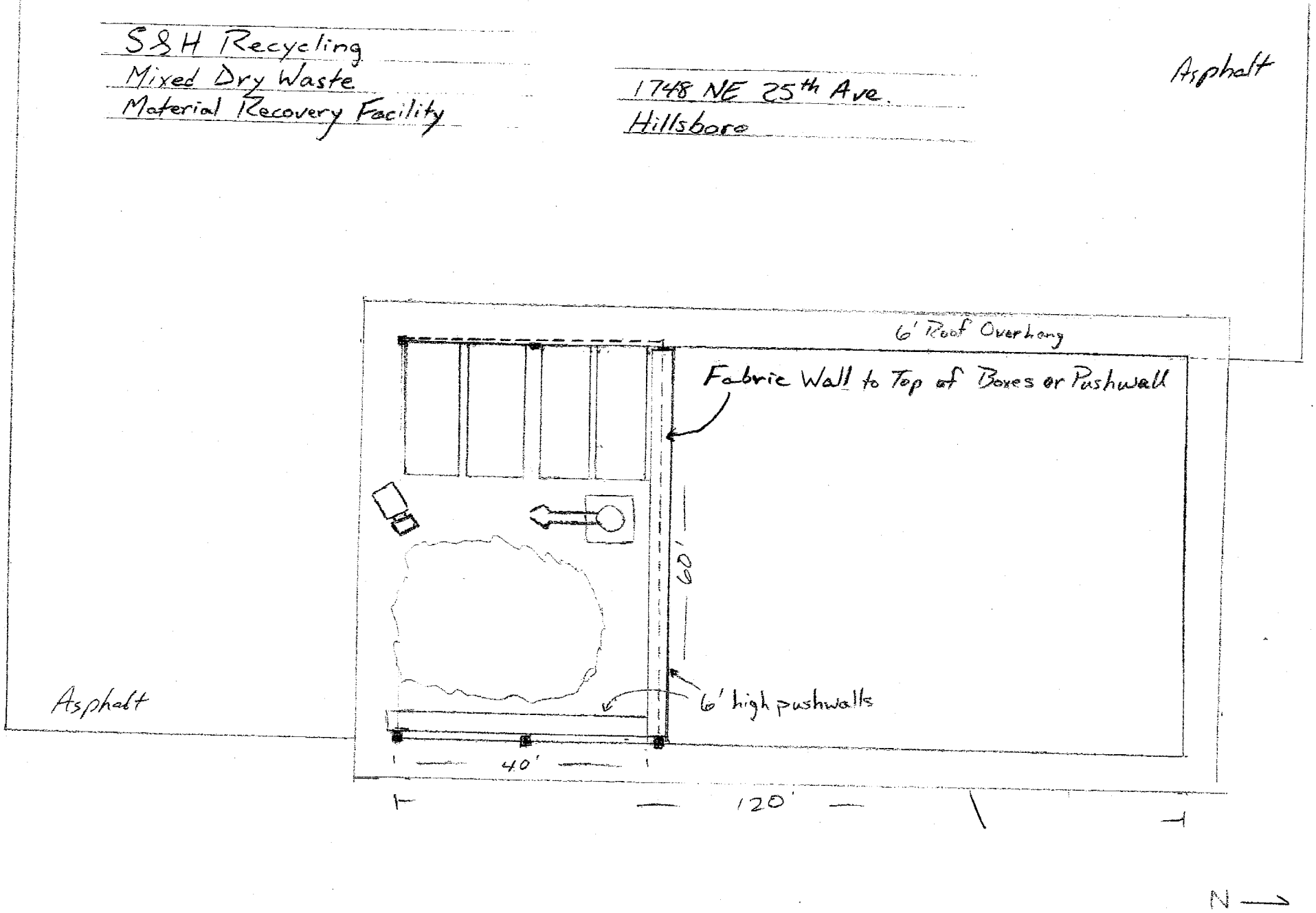
FIGURE 4: DRAINAGE



SHEET 1: LAYOUT OF OPERATIONS

S&H Recycling
Mixed Dry Waste
Material Recovery Facility

1748 NE 25th Ave.
Hillsboro



SHEET 2: BUILDING FLOOR PLAN

METRO SOLID WASTE FACILITY APPLICATION:
S&H RECYCLING

ATTACHMENT A: SITE PLAN

See Sheet 1 - Layout of Operations.

ATTACHMENT B: FACILITY DESIGN PLAN AND REPORT

1. Dust, Airborne Debris and Litter
    a. The MRF facility will be roofed and enclosed on three sides and thus protected from wind. A simple floor sort will be employed for sorting out recoverable materials. Compared to mechanical sorting equipment, this will minimize the amount of dust and other airborne debris that is generated. The facility is shown on Sheet 2 – Building Floor Plan.
    b. Any airborne dust and debris will be prevented from migrating outside the operating area with the use of strategically positioned misters. Misters use just enough water to help settle-out dust and airborne particles; not enough water is released to generate run-off. Misters will also be used if necessary during the loading of residual waste into the transfer trailer or drop-boxes.
    c. Employees will be responsible for daily clean-up any visible litter. Near the end of each workday, workers will patrol the grounds as well as the fence, and remove any litter found. As to the question of how we will handle the waste in the case of a major processing facility breakdown, we don't expect our procedures to be disrupted significantly. Our simple processing, consisting of a floor sort with a skid-steer, mini-excavator and laborers, is not as vulnerable to a major breakdown compared to a complex mechanized sorting system. We do not anticipate any major disruptions due to equipment failure.
2. Facility Capacity
    a. Current wood waste and yard debris drop-off storage capacity is adequate for existing throughput and for some expansion of throughput. Wood waste recovered from MRF sorting will be added to outdoor wood waste storage pile. We have the option for grinding this wood waste as frequently as necessary to handle increased quantities coming from the MRF operation.
    b. Estimated Facility Throughput: MRF: 20 tpd (150 cubic yards); Public Drop-Off: 1 tpd
    c. Storage capacity for MRF materials: 80 CY ((2) 40 CY bins) for residuals and 160 CY ((4) 40 CY bins) for recyclables.
3. Fire Prevention: Fire Marshall sign-off when building permit obtained in 2006.
4. Adequate Vehicle Accommodation

a. The site has two entrance/exits that are each 30' wide. The use of a scale near the main office will send all trucks to be weighed in and out the south access drive. There is 130' from 25th Avenue to the office/scale. All non-weighing vehicles will enter the south access drive and exit the north access drive. Non-weighing vehicles (incoming residential yard debris and wood waste, product consumers), will park next to the scale and will not add to the scale cuing line.
b. The loading and unloading points vary according to what is being brought into the site. The driveway to product bins and various drop-off areas creates a straightforward route to access these different functional areas. The public recycling drop-off area is out of the way of circulating vehicles, and thus helps protect people when they are out of their vehicles. Similarly, yard debris and wood waste drop-off areas are out of the line of traffic.
c. Roll-off trucks and tractor-trailers will weigh and proceed along the primary circulation drive to the MRF building or product bins to deliver their load.

5. Water Contaminated by solid waste and solid waste leachate
   a. As part of the 2006 MRF building permit, a stormwater treatment system was designed and installed to meet Clean Water Services criteria. This system consists of grading and a sediment and nutrient filtering bioswale along the entire southern property boundary. The covered MRF activity will not contribute to any leachate load on this stormwater system.

ATTACHMENT C – MATERIAL RECOVERY PRACTICES

1. S&H Recycling will contribute to the recycling goals of Metro by creating an additional recycling facility in the regional solid waste system that will improve convenience for waste generators and haulers. This will increase their incentive to recycle compared with disposal. Our labor-intensive floor sorting method will maximize the level of recovery of materials from incoming comingled loads.
2. Incoming material tonnage will be measured by a certified truck scale and documented by a proprietary software program, including electronic storage as well as storage of hard copy receipts.
3. Loads of incoming source-separated materials will be distinguished from other materials (either non-source separated recyclable materials or prohibited materials) by visual inspection during weighing on the scale. Comingled loads that contain prohibited materials, such as hazardous materials, putrescible materials, or non-recyclable materials, will be directed to other facilities such as transfer stations or landfills. Visual inspection of materials while still in the truck may be difficult, and further inspection will be done as the load is being dumped in the staging area.
4. Recovery of materials will be performed with a mix of mechanical agitation and hand sorting. A small excavator with clamshell and a skid-steer loader will extract the larger items. This

equipment will also be used to reposition and expose additional materials during hand sorting. Hand-sorting into several bins surrounding the staging area will proceed until most of the reasonably cost-effective sorting has been accomplished. We expect to recover at least 80% of incoming materials. Materials in bins will be transferred to covered drop boxes stored outside. Residual from the floor will be scooped up by the skid-steer and loaded directly into outside covered drop boxes. When drop boxes are full, they will be hauled off-site.

5. General markets for recovered materials:
    a. Wood: grind construction lumber waste and landscaping wood waste into hog fuel and market direct to end users (have existing market)
    b. Metal: take to metal recyclers in the Portland area (have existing market)
    c. Plastics: LDPE, HDPE, PET, film wrap will be segregated and hauled to plastics recyclers for processing into feedstock for reuse
    d. Glass: fill 20 CY drop box and take to local glass recycler
    e. Cardboard: take to processor that will bale and market
    f. Drywall: take to nearest drywall recycler for processing into gypsum and paper constituents
    g. Concrete: transfer to outdoor pile and grind into recycled aggregate for retail and wholesale sales (have existing market)
    h. Yard debris: add to pile outside and transfer to compost facility
6. All incoming and outgoing loads related to the MRF will be weighed. The scale software program will track weights of incoming co-mingled loads and outgoing loads of segregated recyclables and residuals. Recovery rates will be calculated every month.

ATTACHMENT D: OPERATING PLAN

1. The types of solid wastes to be accepted and handled at the facility.
    a. Existing and continuing: yard debris, wood waste, concrete and dirt
    b. Will start accepting: Mixed, Dry Commercial Waste, containing wood, metal, plastic, glass, cardboard, drywall, concrete

2. How to distinguish and manage loads of incoming source-separated recyclables from other materials:
    a. Visual inspections of the load will be performed at the scale as well as in the MRF before dumping to help prevent dumping any load that contains prohibited waste. Loads containing prohibited wastes will instead be directed to other facilities that accept these prohibited wastes.

b. Visual monitoring will continue as the load is being dumped, and after dumping. If prohibited waste is observed at any point on the tip floor, the prohibited material and surrounding materials if affected or impossible or impractical to separate will be loaded into a bin and hauled to a proper disposal facility. A premium dump fee will be charged the customer responsible for bringing the prohibited materials.

c. Hand sorting will place recyclable materials into their appropriate bins, as well as any prohibited materials into a separate, dedicated bin. Customers will be assessed a surcharge by weight for any prohibited materials found in the load. Significant quantities of prohibited materials from any one load will be weighed. Otherwise, small amounts will be estimated and a surcharge applied. Specific prohibited wastes will be dealt with as explained below.

3. Procedures for inspecting loads:

   a. As explained above, trained workers will visually inspect loads before, during, and after they have been dumped. These workers will receive training in the following areas:

      i. The materials that are prohibited and unauthorized
      ii. How to operate all equipment safely to prevent unnecessary exposure to prohibited and unauthorized materials
      iii. The personal protective clothing and equipment to be worn and used properly
      iv. How to inspect all incoming loads
      v. Dust prevention strategies
      vi. The identification of ACWM and procedures for handling friable and non-friable asbestos-containing waste material
      vii. Emergency procedures for fire, and accidents
      viii. Spill prevention and response to spill events

   b. A list of acceptable materials and a list of prohibited and unauthorized materials will be posted at the scale as well as at the MRF tip floor. Every driver of MRF-bound loads will be presented with these lists, and must sign a statement that, to the best of his knowledge, his load contains only acceptable materials. Surcharges for disposal of unacceptable materials will be stated as part of the information given to drivers.

   c. Visually identified or suspected asbestos-containing material that has been dumped on the tipping floor will be handled only by trained personnel with appropriate protective gear. All other personnel will leave the building until the material is wetted and set aside into a special Asbestos-Containing Waste Bin. Small quantities will be bagged and put into the ACWB. Suspicious material will be sampled, labeled and tested by a licensed asbestos abatement contractor. Records will be kept with all information about the material, sampling, and testing results. If tests are positive for asbestos, the ACWB will be hauled to a licensed asbestos disposal site.

4. Procedures for processing and storage of loads:

a. Authorized Wastes: Obtain incoming weight, visually inspect, and dump in staging and sort area of MRF. Continued inspection while using equipment and hand labor to positively sort out recyclable materials. All materials, including residual, will be placed into appropriate, labeled, covered drop-boxes. These boxes will be stored outside with covers (lids) lowered to protect against water infiltration and leachate generation.
b. Reloading and transfer of authorized solid wastes: 2-5 CY bins will be used during the sorting process. These bins will be emptied into larger 20-40 CY drop-boxes stored outside the MRF building. Some incoming, single commodity loads will be reloaded directly into the outside drop-boxes. When full (or when they reach their payload capacity), these boxes will be hauled (transferred) to commodity-specific destinations as identified above.
c. Managing stockpiles: Only yard debris, wood waste, concrete, and dirt will be stockpiled outside the MRF building. All other materials will be in covered drop-boxes. These stockpiles will be managed accordingly:
    i. Yard debris: Reloaded into drop-boxes or belt trailers for transfer to compost facility within 1 week of receipt
    ii. Wood Waste: When stock pile is large, a portable grinder is brought on-site and the wood waste is ground into hog fuel, loaded onto trailers, and transferred to end users
    iii. Concrete: when stock pile is large enough, a portable crusher is brought on-site and an aggregate is produced and stockpiled for sale
    iv. Dirt: ongoing screening to produce a value-added uniform fill or topsoil product which are off-loaded as sold
d. Minimizing storage times and avoiding delay in processing and managing of all authorized solid wastes and recovered materials will be achieved by:
    i. Assuring that adequate drop-boxes and roll-off trucks are available to store and transfer materials to their respective destinations
    ii. Pro-actively marketing commodities and lining up second and third-tier outlets in case market conditions deteriorate.
    iii. Obtain back-up options for disposal of residual
    iv. Secure off-site storage options for full drop-boxes for temporary longer-term storage.

5. Procedures for rejecting or managing prohibited wastes:
    a. Hazardous Wastes: If hazardous waste is identified in a load before it is dumped, the driver will be informed and directed to an appropriate disposal facility, such as a transfer station or landfill. If hazardous waste is identified after the load is dumped, safety considerations will be made and, if appropriate, trained staff with proper protective clothing and equipment will bag or otherwise contain the material and place in a hazardous, sealed drop-box or bin. If safety of workers cannot be assured,

emergency hazmat personnel will be enlisted. All hazardous materials will be transferred safely to an appropriate disposal facility.

b. Prohibited Wastes: If prohibited wastes are identified in a load before it is dumped, the driver will be informed and directed to an appropriate disposal facility. If prohibited waste is identified on the floor after dumping, it will be separated from authorized materials if possible and placed into a bin for transfer to the landfill. If separation is not possible, all waste will be reloaded into a drop-box for disposal. A disposal fee, transfer fee, and surcharge will be levied against the customer who delivered the load.

c. Notification Procedures: In addition to the signs at the front gate, weigh scale, and the tipping floor, customers (haulers, contractors, or residents) will be given an agreement (containing lists of authorized as well as prohibited (including hazardous) materials) to sign. If unacceptable materials are found in the dumped material, the hauler, contractor, or resident will be given a written notice along with a transfer and disposal fee and surcharge. Residents will be required to stay after dumping until the material is adequately inspected, in order to be given specific feedback about their load. Haulers (including S&H Recycling) will be given labels to put on their drop-boxes listing acceptable and unacceptable materials.

6. Odor prevention procedures:

a. Incoming loads will be monitored for strong odors (chemical, putrescible, or other) and rejected if noticed before dumping. If noticed after dumping, odorous materials will be evaluated for odor cause and further odor potential, and a choice between reloading and disposal or processing will be made. Reloading will be in either the client's vehicle or our drop box for transfer to an appropriate disposal facility. If further processing is chosen, it will be prompt with an emphasis on isolating the odorous material with residual in a covered drop box for transfer to a landfill. If odors are caused by putrescibles (delivered to the MRF), and they are yard debris, they will be put in the yard debris pile for prompt transfer to a compost facility. If the putrescibles are other than yard debris, they will be buried in a residual box for transfer to a landfill.

b. All off-site odor complaints, whether from neighbors, or forwarded by Metro or DEQ will be recorded in our Odor Complaint log. These complaints will be immediately investigated with the findings also entered in the log. The facility manager will direct any necessary remedial action to mitigate the odor(s), including immediately transferring culprit materials to appropriate disposal sites, or separating and sequestering material in a covered drop-box for prompt transfer.

7. Procedures for Emergencies:

a. Employee safety training is standard at S&H facilities, and will be at the MRF. This training includes procedures for handling emergencies, including spills, fires, and accidents. Critical phone numbers for emergency response will be posted, including:

i. Fire and Medical : 911

ii. Metro: 503-797-1650
iii. DEQ: 503-229-5263
iv. Spill Response – OERS (OR Emergency Response System): 1-800-452-0311
v. Spill Response – National Response Center: 1-800-424-8802
vi. S&H On-Site Recycling Manager: 503-969-8386
vii. S&H Off-Site Manager: 503-969-2121

8. Nuisance Prevention Procedures:
   a. Noise: The proposed MRF is in an industrial zone, where reasonable industrial noise levels are expected. That said, all equipment will have appropriate mufflers, and operations that cause (grinding, crushing) will be performed within typical operating hours and in conformance with any zoning standards. Workers who are close to noise sources will be expected to wear hearing protection.
   b. Vectors: The MRF will not accept putrescible waste, and therefore should not attract vectors such as rodents, gulls, or insects. If putrescible waste is found in the MRF, it will immediately be removed and placed in a covered drop box for transfer to a landfill.
   c. Odor: (Please see #6 above)
   d. Litter: Incoming uncovered loads will be charged an additional fee to encourage covering loads. This will help prevent littering of streets around the facility. The floor sorting will be performed in a 3-sided structure, which will help prevent blowing of paper and plastic around the site. Frequent litter patrols on-site will help prevent the migration of litter off-site. Daily litter monitoring on 25Th Street will help keep off-site littering to a minimum.
   e. Dust: Some loads of mixed construction waste may contain considerable dust in the form of sawdust, gypsum dust, and floor sweepings. Loads will be observed as they are dumped on the sorting floor. If necessary, materials will be sprayed with water as they are sorted to suppress dust, especially the remaining residual as it is scooped off the floor and placed in a drop-box.

ATTACHMENT E: INSURANCE

We currently have the required insurance policy for our Metro licensed Yard debris Transfer Facility. This policy will be amended if necessary to include the MRF activities.

ATTACHMENT F: LAND USE COMPATIBILITY STATEMENT

See attached.

ATTACHMENT G: DEQ PERMIT APPLICATIONS AND INFORMATION

See attached.

ATTACHMENT H: OTHER REQUIRED PERMITS

No other permits have been required.

ATTACHMENT I: CLOSURE PLAN AND FINANCIAL ASSURANCE

Given the small size of the proposed MRF operation at our existing Hillsboro facility, the closure plan is relatively simple and inexpensive. Materials, including residual, and other than waste wood, will not be stockpiled on site. Instead, storage of materials in lidded drop-boxes will both limit the amount of materials on-site at any time, as well as facilitate their transfer to market or disposal. A limited number of boxes dedicated to this operation in turn limit the amount of material stored on-site. Projected throughput of 240 tons per week, limited floor sort area, and storage capacity of 100 tons (about 20 drop-boxes) creates a closure scenario where as much as 100 tons may require transfer to market or disposal.

Assuming this material can be taken to and accepted by another MRF, the cost for trucking and tip fees would be about $80 per ton, or $8,000 total. We understand that financial assurance for facility closure may not be required if it costs less than $10,000. Please advise.