

MARIN COUNTY HAZARDOUS & SOLID WASTE
MANAGEMENT JOINT POWERS AUTHORITY

AB 939 LOCAL TASK FORCE

Wednesday, April 2, 2014
Northgate Mall Community Room
5800 Northgate Drive, Suite 200
8:30 – 10:00 AM

AGENDA

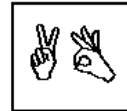
Call to Order.

- 1) Open Time for Public Comment
- 2) Approval of the March 5, 2014 JPA Local Task Force Minutes (Action)
- 3) Information Sharing with JPA Chair Nancy Mackle (Information)
- 4) Presentation on Composting at the Redwood Landfill by Dan North (Information)
- 5) Updates from LTF Subcommittees (Information/Action)
- 6) Staff Update on Recent and Ongoing Activities (Information)
- 7) Open Time for Member Comments (Information)

The next scheduled LTF Meeting is May 7, 2014 at 8:30 AM.

The full agenda including staff reports can be viewed at:
<http://zerowastemarin.org/Agenda>

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All public meetings and events sponsored or conducted by the County of Marin are held in accessible sites. Requests for accommodations may be requested by calling (415) 473-4381 (voice) (415) 473-3232 (TTY) at least **four work days** in advance of the event. Copies of documents are available in alternative formats, upon written request.

Contact the County's Waste Management Division, at 473-6647 for more information

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DRAFT

**MARIN COUNTY HAZARDOUS & SOLID WASTE
MANAGEMENT JOINT POWERS AUTHORITY**

AB 939 Local Task Force Meeting
Wednesday March 5, 2014
Northgate Mall Community Room
5800 Northgate Drive, Suite 200
San Rafael, Calif. 94903

MINUTES

MEMBERS PRESENT

Loretta Figueroa, Almonte Sanitary District
Renee Goddard, Ross Valley Cities
Russ Greenfield, LGVSD
Delyn Kies, Sustainable Novato
Joan Irwin, Southern Marin Cities
Patty Garbarino, Marin Sanitary Service
Alex Stadtnr, San Rafael
Dan North, Redwood Landfill
David Haskell, Sierra Club
Jennie Pardi, Conservation Corps North Bay
Dee Johnson, Novato Sanitary District
Steve McCaffrey, Redwood Empire Disposal

MEMBERS ABSENT

Matt McCarron, Novato
David Green, Unincorporated Marin County

STAFF PRESENT

Steve Devine, JPA Staff
Alex Soulard, JPA Staff

OTHERS PRESENT

Kim Scheibly, Marin Sanitary Service
Rebecca Hoehn, Conservation Corps North Bay
Jim Iavarone, Mill Valley Refuse
Madeline Hope, West Marin Ed. Coordinator

Call to Order. The LTF Meeting came to order at 8:33AM

1. Open Time for Public Comment

No Public Comments were heard.

2. Approval of the February 5, 2014 JPA Local Task Force Minutes

Ms. Kies submitted corrections to the minutes. M/s Irwin, Figueroa, to approve the minutes as amended. The motion passed unanimously.

3. Presentation by Conservation Corps North Bay

Ms. Pardi and staff from Conservation Corps North Bay (CCNB) provided a presentation on the programs and efforts currently underway. This included a community recycling program at parks and event venues, a natural resources program that builds trails, flood and creek control, emergency response to low level natural issues, as well as the Indian Valley Organic Farm Program. The overall intent of CCNB is to provide education and resources for 18-24 year olds in the form of job skills training. Staff outlined County efforts working with the CCNB funded by the County of Marin's JPA Zero Waste Grant Program, which included working with the resource haulers, outreach for events, recycling at the Marin County Fair and other events, as well as, setting up composting programs with local schools. CCNB Staff fielded questions from Members and the public. No action was necessary.

4. Updates from LTF Subcommittees

LTF Members provided updates on the progress made by the Subcommittees since the last meeting noting; meeting dates and issues discussed.

C&D/Asphalt Shingles Subcommittee (Member: Stadtner, North Greenfield, Kies Public: Mazzoni, McLaren, Scheibly) reported: Asphalt shingle recyclers have stopped collecting materials as of February 14 due to a lack of a market for the materials. Caltrans road specifications for recycled asphalt will be out sometime in June. Assemblyman Levine has introduced AB2355 which would require local governments to use the highest recycled content Caltrans road specifications allowed. No action was necessary.

EPR, Sharps & Pharmaceuticals Subcommittee (Members: Garbarino, Johnson, Goddard, Green. Public: Scheibly) reported: having not met. Ms. Johnson reported attending a local pharmaceutical and drug abuse and safe drug disposal conference. Next meeting date not identified. No action was necessary.

JPA Long Term Funding Subcommittee (Members: Irwin, McCarron) reported: Developing a motion regarding school programs for the April meeting. Future meeting dates were not identified. No action was necessary.

No recent meetings of the JPA Board Zero Waste Outreach Subcommittee were identified.

5. Staff Update on Recent and Ongoing Activities

Staff stated the revised C&D Ordinance would be brought to the JPA Board at the upcoming May meeting, JPA Zero Waste Grant Cycle 3 concludes March 21st. Staff has contracted with an outreach coordinator who will have a booth at the 2014 Marin County Fair promoting used oil recycling programs, the same OPP contractor has recently lined up guest time on the West Marin live radio to promote bi-lingual oil recycling programs, Form 700's are due April 1, 2014, Zero Waste Marin website traffic has increased due to the public outreach push and TV spot.

6. Open Time for Member Comments

LTF Members shared various community updates. No action was necessary.

MARIN COUNTY HAZARDOUS AND SOLID WASTE MANAGEMENT JOINT POWERS AUTHORITY

Belvedere:
Mary Neilan

Date: April 2, 2014

Corte Madera:
David Bracken

To: Local Task Force Members

County of Marin:
Matthew Hymel

From: Steve Devine, Program Manager

Fairfax:
Garrett Toy

Re: Information Sharing with JPA Board Chair Nancy Mackle

Larkspur:
Dan Schwarz

JPA Board Chair Nancy Mackle is attending Local Task Force meetings roughly once a quarter to share information with the Local Task Force on recent JPA activities and solicit feedback from the group.

Mill Valley:
Jim McCann

Chair Mackle will provide updates on the single use bag project and zero waste outreach efforts among other things.

Novato:
Michael Frank

Recommendation
Receive oral report.

Ross:
Rob Braulik

San Anselmo:
Debbie Stutsman

San Rafael:
Nancy Mackle

Sausalito:
Adam Politzer

Tiburon:
Margaret Curran

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MARIN COUNTY HAZARDOUS AND SOLID WASTE MANAGEMENT JOINT POWERS AUTHORITY

Belvedere:
Mary Neilan

Date: April 2, 2014

Corte Madera:
David Bracken

To: Local Task Force Members

County of Marin:
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Re: Presentation on Composting at the Redwood Landfill by Dan North

Larkspur:
Dan Schwarz

Local Task Force Member Dan North will provide a presentation on developments in the composting operations at the Redwood Landfill in Novato.

Mill Valley:
Jim McCann

Following is an excerpt from the www.redwoodlandfill.wm.com "Plans for the Future" section with background on various programs at the site:

Novato:
Michael Frank

Landfill Gas to Energy Plant – Capturing the energy of landfill gas, rather than flaring it, will allow Redwood to produce an estimated 6-8 megawatts of power. This green energy will create enough electricity to power the equivalent of 6,000 homes or more.

Ross:
Rob Braulik

Expanded Composting Facility – The decay of organic materials in landfills generates landfill gas, a potent greenhouse gas. Composting of food scraps and yard trimmings reduces the associated GHG emissions of landfills and produces compost to renew local soil. By expanding its composting facility, Redwood will be able to accommodate commercial food waste along with residential food waste.

San Anselmo:
Debbie Stutsman

San Rafael:
Nancy Mackle

Sausalito:
Adam Politzer

C&D Materials Recovery Facility – Diverting construction and demolition materials from the landfill has the potential to eliminate nearly 30,000 tons of CO₂ according to the County Climate Protection Plan. Redwood plans to build a 400-ton-per-day facility to process C&D along with dry waste materials like cardboard and pallets.

Tiburon:
Margaret Curran

Reuse – The County estimates nearly 33,000 tons of CO₂ can be eliminated annually through reuse rather than the consumption of new products. Redwood has design a public drop-off site for recyclables and reusable materials. Working with local non-profits, reusable materials will be donated for resale or reuse.

A copy of Dan's PowerPoint presentation is attached.

Recommendation

Receive oral presentation.

Attachment.

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Managing Organic Wastes Through Composting



Think Green.®

What is Composting?

Composting is the controlled aerobic biological decomposition of organic materials into a valuable soil amendment.



Why Do we Compost?

- It is the highest and best use of discarded organic material
- Compost improves topsoil
- Compost helps to prevent erosion
- Compost improves storm water quality



What is Changing?

	<u>Redwood Landfill</u>	<u>WM EarthCare of Marin</u>
Active Composting Method:	Open Windrow	Covered Aerated Static Pile (CASP)
Permitted Feedstocks:	Green waste, residential food scraps, biosolids	Green waste, residential food scraps, biosolids, agricultural materials, commercial food waste
Throughput:	170 tons per day	514 tons per day
Emissions Controls:	None	6" compost cap on CASPs
Water protection:	Paved active composting area, groundwater monitoring, contact water managed in landfill leachate pond	Includes all protections in the existing permit, plus implementation of rigorous new SWRCB regs

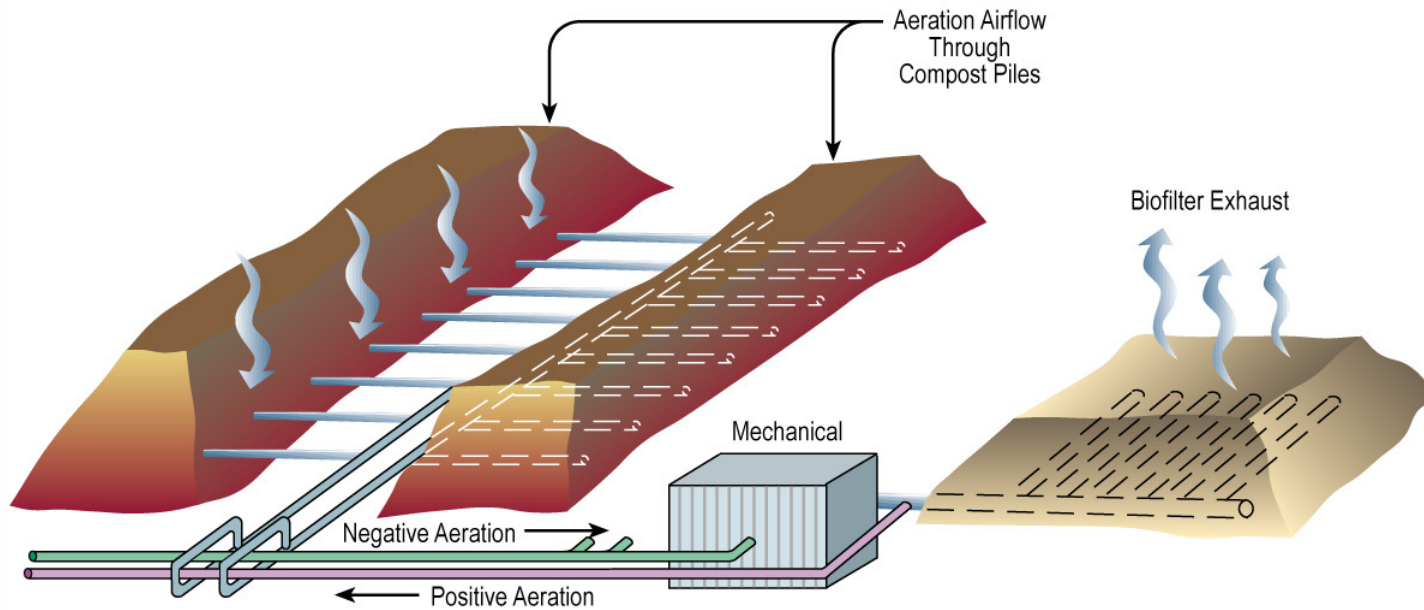


Aerated Static Pile

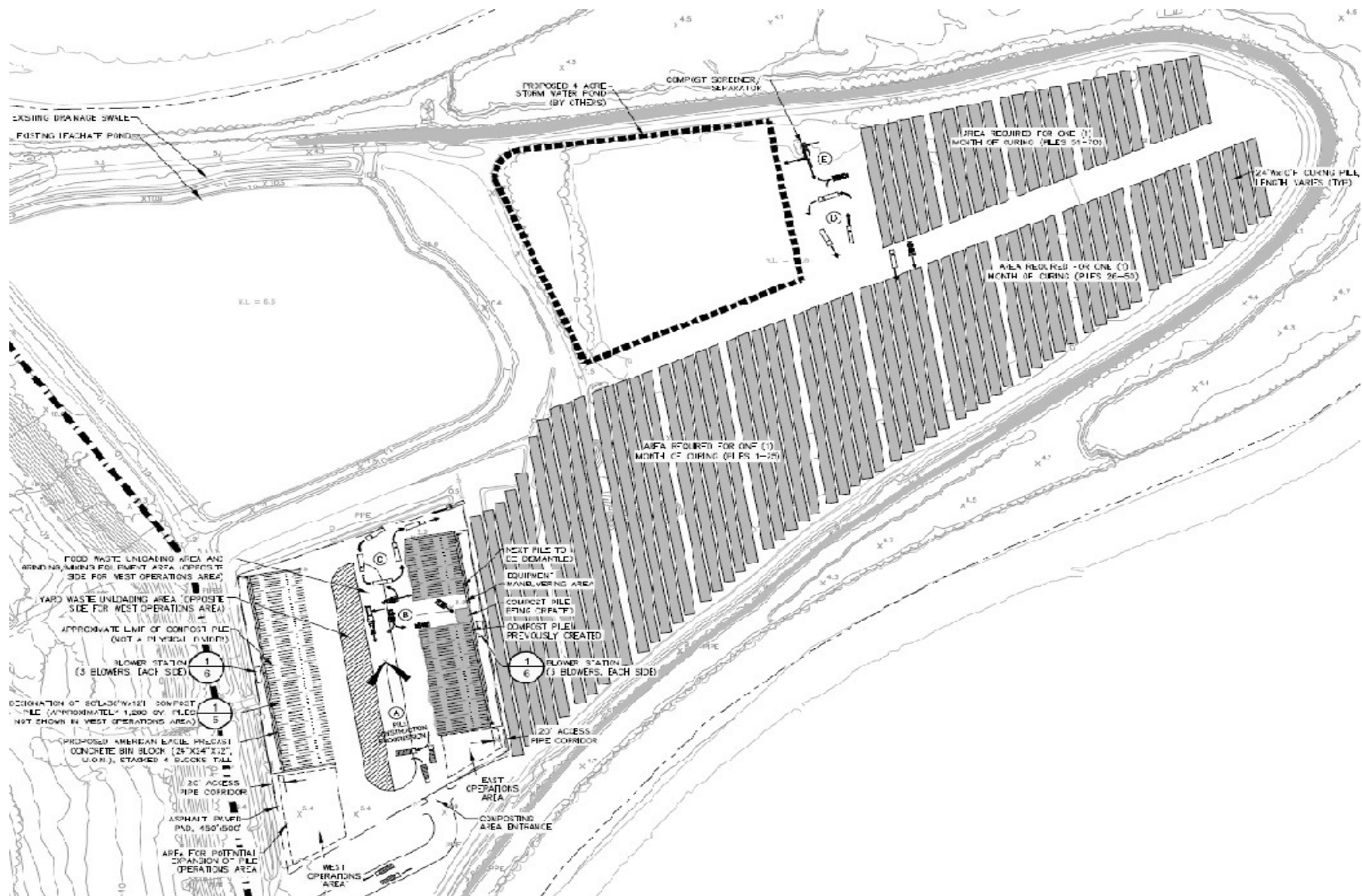
- Air is added continuously through mechanical means (electric blowers)
- Faster compost time than standard windrows
- Requires less area
- Uses biofilters and covers to reduce emissions
- More difficult to adjust moisture during active phase



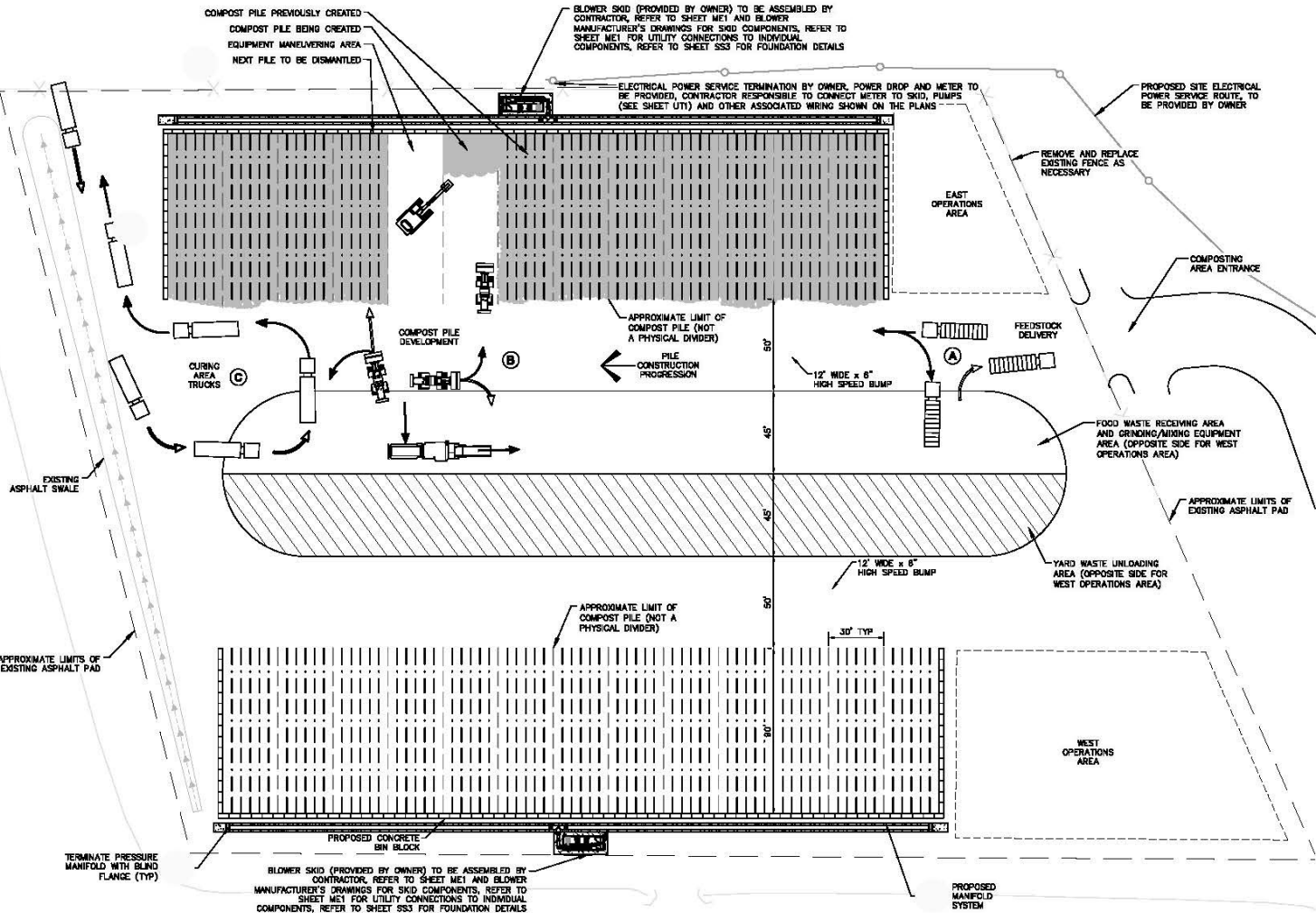
Aerated Static Pile






Aerated Static Pile



Aerated Static Pile

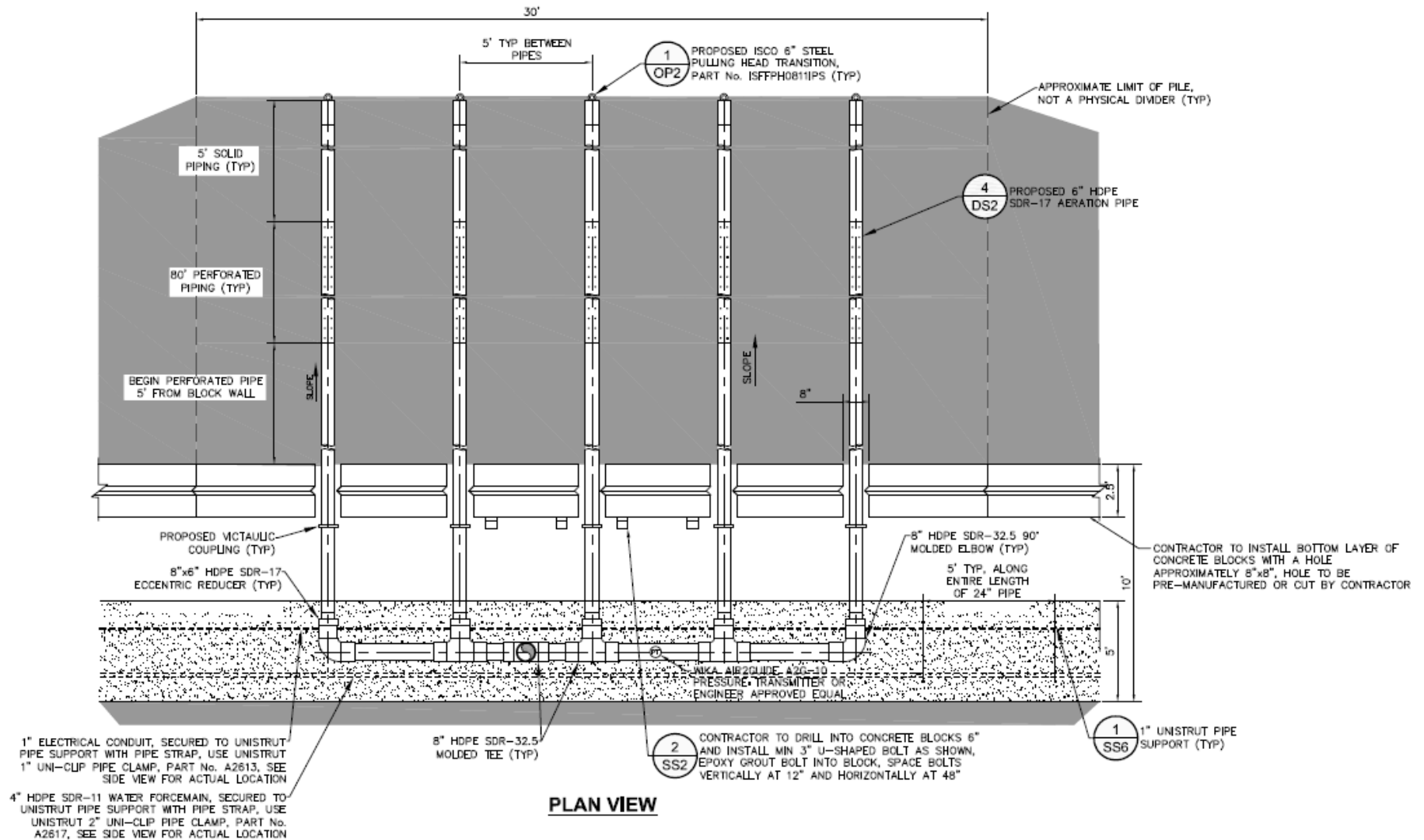


- LEGEND:**
- | | |
|---|---|
|  | EXISTING FENCE |
|  | PROPOSED PERFORATED HOPE PIPE |
|  | PROPOSED SOLID HOPE PIPE |
| (A) | INCOMING YARD WASTE AND FOOD WASTE UNLOADING OPERATIONS |
| (B) | GRINDING, MIXING, AND PILE CREATION OPERATIONS |
| (C) | PILE DECOMMISSIONING AND LOADOUT INTO TRUCKS |

NOTES:

1. TOPOGRAPHIC CONTOURS PREPARED USING PHOTOGRAMMETRIC METHODS BY WALKER ASSOCIATES, DATE OF PHOTOGRAPHY: FEBRUARY 20, 2013.
2. OPERATIONS AREA A - INCOMING VEHICLES WILL TYPICALLY OPERATE ON THE SOUTH SIDE OF THE MIXING OPERATIONS. THIS WILL MAINTAIN SEPARATION AND CONTROL OF INCOMING VEHICLES AND ON-SITE VEHICLES.
3. OPERATIONS AREA B - ORGANICS PREPARATION EQUIPMENT WILL INCLUDE A MIXER AND A CRINDER.
4. OPERATIONS AREA B - COMPOST PILES WILL BE CONSTRUCTED WITH AN OVERLAP ONTO THE ADJACENT PREVIOUSLY MENTIONED AREA. AT DESIGN CAPACITY, ONE PILE WILL BE CONSTRUCTED PER DAY.
5. OPERATIONS AREA C - ON-SITE DUMP TRUCKS WILL HAVE BETWEEN COMPOST PILES AND CURB. THESE OPERATIONS WILL BE MAINTAINED ON THE NORTH SIDE OF THE MIXING OPERATIONS.
6. OPERATIONS AREA D (SEE SHEET GP3) - CURING PILES ARE TRAPEZOIDAL IN SHAPE, AS PRODUCED BY THE TRUCK WINDOW TROWEL METHOD. THE PILE BASE IS 24 FEET WIDE, PILE HEIGHT IS 10 FEET HIGH. DURING APPLICATION, CONCRETE CURB WILL BE LINED FOOT OF PILE. FOR 1,200 CUBIC YARDS OF COMPOST (CONSERVATIVE VALUE), 240 FEET OF PILE ARE REQUIRED.
7. OPERATIONS AREA E (SEE SHEET GP3) - ONLY ONE SCREWDRIVER PLANK WILL BE USED. PLANKS REUSED WHEN COMPOST PRODUCTION REQUIREMENTS ARE DETERMINED BASED ON FINAL USE.
8. GRADING ADDRESSED BY SHEETS G1 THROUGH G3 PROMOTE DRAINAGE TOWARDS THE PROPOSED STATION WAY POND.

Aerated Static Pile



Pilot Project - Setup



Pilot Project - Setup



Pilot Project - Feedstock



Pilot Project - Outcome

- Piles sized for 500 tons
- Material stays in the pile for 4 weeks
- Piles accommodate 10-15% commercial food waste
- 5-sparger design eliminates need for a plenum layer



Curing Compost

- Curing and screening procedures remain unchanged
 - Compost is cured for up to 2 months with overs
 - Partially cured piles are screened and the material is then allowed to cure further
- New curing pad implements rigorous new SWRCB draft regulations
 - Construction of a new pond to contain compost contact water
 - Exceeds permeability requirement by a factor of 10



Selling Compost

- Cured compost is tested and sold bulk or in bags
- WM EarthCare compost carries the US Composting Council's Seal of Testing Assurance and is listed by OMRI as being approved for organic farming.



US Composting
Council
*Seal of Testing
Assurance*



Questions?



MARIN COUNTY HAZARDOUS AND SOLID WASTE MANAGEMENT JOINT POWERS AUTHORITY

Belvedere:
Mary Neilan

Date: April 2, 2014

Corte Madera:
David Bracken

To: Local Task Force Members

County of Marin:
Matthew Hymel

From: Steve Devine, Program Manager

Fairfax:
Garret Toy

Re: Updates from LTF Subcommittees

Larkspur:
Dan Schwarz

Subcommittees include:

- EPR, Sharps and Pharmaceuticals Subcommittee
- Construction & Demolition/Asphalt Shingle Subcommittee
- Long Term Funding Subcommittee

Mill Valley:
Jim McCann

- JPA Board's Zero Waste Outreach Subcommittee

Novato:
Michael Frank

Members will report on progress they have made researching and addressing issues at each LTF Meeting.

Ross:
Rob Braulik

Joan Irwin indicated at the last meeting that she would provide a motion at this meeting to redirect the Long Term Funding Subcommittee to focus on schools.

San Anselmo:
Debbie Stutsman

San Rafael:
Nancy Mackle

Recommendation

Adopt a motion to receive reports from Subcommittees.

Sausalito:
Adam Politzer

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Tiburon:
Margaret Curran