



WASTE CONNECTIONS
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May 22, 2026

Mr. Paul Freund
Landfill Agency Manager
Tehama County/ Red Bluff Landfill Management Agency
20000 Plymire Road.
Red Bluff, CA 96080

**RE: ORGANICS PROCESSING / COMPOSTING – FEE ESTIMATES
TEHAMA COUNTY / RED BLUFF LANDFILL**

Dear Mr. Freund:

In accordance with item T of the Agreement between Waste Connections (as Contractor) and the Tehama County / City of Red Bluff JPA (as Owner), both referred to collectively as “parties”, item T indicates the following:

Construction and Operation of a Composting Facility

The parties acknowledge that the construction and operation of a composting facility may be part of the scope of this agreement. If the JPA so directs Contractor to proceed with a composting facility, Contractor shall furnish a construction cost estimate, and its impact to the Contractor Tipping Fee, and project plan, which includes a completion date, and an ongoing cost to operate the facility (“Composting Tipping Fee”) to JPA for consideration. Upon approval, Contractor shall execute project plan in its entirety within the project timeline.

At the January 5, 2026 Tehama County Solid Waste Management Agency (“Agency”) Board Meeting, the Agency Manager provided an update regarding the Compost Facility CEQA and Permitting update, and requested direction from the Board in accordance with item T above, for the Contractor to proceed towards developing estimates for: (1) composting organics onsite; or (2) transporting of food waste organics to the Anderson Compost facility (off-site composting operation). The Board ultimately requested that both of the following estimates be developed and presented at the April 2026 Board meeting, including:

1. Tipping Fee Estimate related to construction and operation costs related to onsite composting at the Landfill; **and**
2. Alternative Tipping Fee Estimate (Offsite Haul) for transporting of food waste to a permitted offsite compost facility for further processing and composting. This option includes construction of onsite infrastructure to accommodate receiving, storage, loading, and off-haul of food waste. This option is specific to food waste based on regulation compliance indicated further in this document.

At the April 6, 2026 Agency Board meeting, a short update was provided by the Agency Manager and Contractor, indicating that the estimates were not yet available pending internal (Contractor) reviews and approvals to present the estimates. The Agency Manager clarified to the Board that compliance with AB 1826 includes management of commercial organics, which is currently achieved through organics (greenwaste) collection¹ and that additional food-waste related (collection and) compliance through either of the options indicated above is not immediately necessary at this time.

Based on the April Board meeting clarification noted above and as confirmed with the Agency Manager, this memorandum includes tipping fee impact estimates for two separate options, including:

- Option 1: Onsite Composting (with food waste)
- Option 2: Offsite Transfer of Organics (with food waste)

While food waste was clarified to not be necessary for the January 1, 2027 compliance deadline, both Options 1 and 2 provide infrastructure to accommodate inclusion of food waste as part of organics management for future planning purposes. Specifically for Onsite Composting, the CalRecycle permitting regulations do not differentiate site development requirements for composting facilities with greenwaste only versus greenwaste with food-waste.

This memorandum provides those three options and also provides information related to:

- Organics Regulatory background
- Feedstock Volumes
- Scenario Descriptions for Onsite vs Offsite Transport Option
- Initial Construction Design and Estimates
- Ongoing Operational Considerations and Estimates
- Summary of Cost Impacts and Potential Tipping Fees

Additionally, this memorandum includes information related to implementation of both scenarios as compliance for commercial organics management has a January 1, 2027 deadline.

¹ Regulation for AB 1826 further described later in this document.

Organics Regulatory Background²

At the October 4, 2021 Board of Directors meeting the Agency Manager was given authorization to begin a feasibility study and start the CEQA process for a proposed compost facility at the Tehama County/Red Bluff Landfill. At that time the exemption from implementing the majority of California Senate Bill 1383 (Lara) and all of California Assembly Bil 1826 (Chesbro) regulations would have ended on January 1, 2027. Additionally, there were no composting facilities within a feasible distance for Tehama County's waste to be hauled to, except for a proposed project at the Anderson Landfill owned by WM.

The Agency contracted engineering services with Lawrence & Associates (L&A), who have extensive experience with the Tehama County/Red Bluff Landfill. Beginning in January 2022 and continuing through August 2024, L&A conducted the required geologic and engineering field studies for the proposed compost facility. In November 2024, L&A submitted the Report of Compost Site Information (RCSI), Compost Site Technical Report, and revised Joint Technical Document (JTD) to the Agency and Waste Connections for review and approval. After receiving comments from the Agency and Waste Connections, the documents were submitted to the Central Valley Regional Water Quality Control Board (CVRWQCB), CalRecycle, and Tehama County Department of Environmental Health for review in January 2025.

In April 2025, Environmental Health held a Public Information Meeting at the Agency's office for the proposed compost facility and increases to traffic, however, no members of the public attended the meeting.

On July 17, 2025, CalRecycle provided their concurrence on the issuance of the Revised Solid Waste Facilities Permit which included the addition of the compost facility. The CVRWQCB provided their Notice of Applicability on August 5, 2025, which was the final step to being fully permitted to construct and operate a compost facility at the Tehama County/Red Bluff Landfill. A filing fee of \$8,431 was required for issuance of the NOA and covered the first year permitted by it. The Agency will be required to pay an annual fee, currently undetermined, until the NOA is officially terminated regardless of whether we construct and operate a facility.

The Agency was able to offset significant costs in fiscal years 2023/24, 2024/25 and 2025/26 associated with the permitting process through funding from the SB 1383 Local Assistance Grant.

California Assembly Bill 2902 (Wood) passed in August 2024 and was signed by the Governor on September 22, 2024. This bill extends the rural exemption in SB 1383 until January 1, 2037, or until a county granted a rural exemption reaches a population of 70,000 people. This bill does not address AB 1826, which applies only to commercial organic waste generators, and

² Background information from Tehama County Solid Waste Management Agency Compost Facility CEQA and Permitting update, January 5, 2026, File #25-2200.

clarification from CalRecycle was sought by Agency staff. CalRecycle has indicated that the Agency's member jurisdictions will have to comply with AB 1826 come January 1, 2027.

Agency staff have presented concerns with implementing AB 1826 at several RCRC ESJPA meetings since AB 2902 was signed and the ESJPA staff have said that AB 1826 exemptions can be extended by CalRecycle without legislative action. While the Agency is working with the ESJPA to lobby CalRecycle to extend the exemption to be in line with SB 1383, this is not guaranteed.

ESJPA consultant Larry Sweetzer, in discussions with the Agency Manager, has indicated that commercial organic waste generation is loosely defined and up to the local governing agency to determine what is specifically included. For Tehama County, commercial organic waste management includes greenwaste and is not specifically required to also include food waste at this time. As such, the County is understood to already be in compliance with AB 1826 through the existing commercial organics management program.

It is anticipated the food-waste will be incorporated into the commercial organics management at some time in the future, as such, Options 1 and 2 include management for food-waste as part of the organics management, when that occurs.

Feedstock Volumes³

Greenwaste and wood wastes are currently accepted under the Landfill's Solid Waste Facility Permit (SWFP). Woodwaste and greenwaste are stockpiled and then processed by chipping or grinding. Woodwaste and greenwaste are then used on-site for erosion control, and excess woodwaste/greenwaste is hauled offsite to a co-generation power plant or composting facility. Excess processed woodwaste and greenwaste are also given to County residents for use as landscape mulch and ground cover.

The Agency has permitted a Tier 2 Compost Facility described herein, which includes a design capacity capable of composting up to 36,500 tons or 91,250 cubic yards of greenwaste, woodwaste, food, manure, and other organic wastes per year.

Actual feedstock volumes in 2025 were 8,346 tons per year (tpy), of which approximately 4,700 tpy is currently pickup up through hauling contracts, 2,345 tpy is from 3rd party, and 1,307 tpy is food waste (commercial)⁴. Based on direction from the Agency Manager, for purposes of this memorandum and near-term, the actual volume received (8,346 tpy) is the desired design basis for construction and operation estimates with peak volume and onsite storage indicated in the scenario descriptions hereon.

³ Information shown taken from the Technical Report for Tier 2 Composting Operations, Lawrence & Associates, October 2024

⁴ Estimate provided by Agency, number is assumed for purposes of this memorandum and actual tonnage should be revised after first year of implementing record-keeping for food waste receipts.

Scenario/Option Descriptions

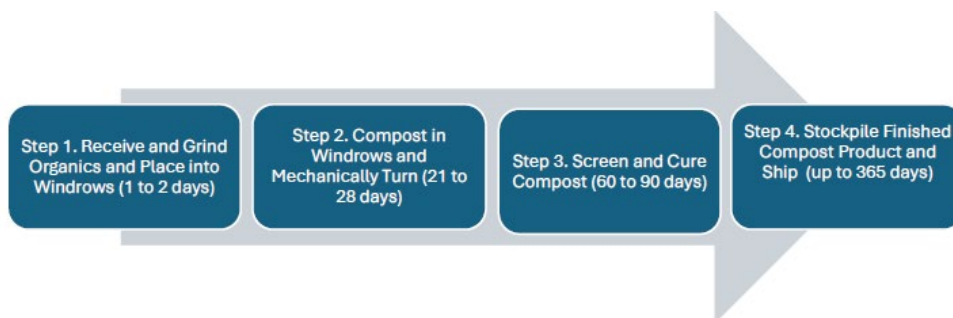
Option #1 Onsite Composting:

This scenario includes onsite composting near the existing Landfill as described in the Technical Report for the facility. The designed compost area is generally east of the Phase 1 closed Landfill, south of the Materials Processing Facility, as shown on the following **Drawings 1.0, 2.0, and 2.1** from the Technical Report. **Drawing 2.0** reflects windrow style composting while **Drawing 2.1** reflects a CASP system. The Drawings reflect a design capable of 36,500 tons per year (tpy) while actual annual volumes (2025) are near 8,346 tpy. For purposes of this estimate, 8,500 tpy of received mixed organics is estimated, which correlates to an average of 33 tpd.

In comparison to the design drawings for the larger facility, required site improvements for onsite composting include a receiving area, active compost area, curing, additional area for finished compost, and then drainage improvements. The receiving area is unchanged from the Drawings. Required windrows and curing areas are estimated at half the size, and no pond enlargement is required. However, the pond will require lining per design and the operation areas still required to meet the low hydraulic conductivity requirements as prescribed by the permit. Required equipment is largely the same between the full build-out and smaller footprint since grinders, loaders, and waste separators are still required for operations regardless of less usage. By comparison, only the row turner equipment is removed for the smaller footprint design and reflects in the construction estimates hereon.

Key design elements within compost facilities include specific low hydraulic conductivity thresholds for the upper section within working surfaces, drainages, perimeter features, and ponds. These are to ensure and minimize potential for contact water to migrate below the surface. There are also compost operational/distance limitations adjacent to the existing domestic well as shown on the Drawings.

Onsite composting operations include a receiving area, processing area, active compost area, screening and curing area, then stockpile of finish compost awaiting transport offsite. Below is a general process diagram of windrow composting⁵ with a graphical depiction shown on **Drawings 1.0, 2.0, and 2.1** on the following pages.



⁵ Diagram from Technical Report for Tier 2 Compost Operations, Lawrence & Associates, October 2024.

Finished compost and off-hauling of material has yet to be finalized with the Agency for disposition. This may include purchase, pickup, and hauling, or a combination thereof. For purposes of this estimate, we have included a roll-off truck to delivery loads of finished compost as part of the operational costs. This presumes that the Agency may offer compost at no charge to the customer and may change based on JPA, Agency, and/or Operator direction.

Option #2 – Offsite Transportation Option (with Food-Waste)

Onsite operations already include organics management for greenwaste, however do not include food-waste in the organics. Green-waste only (without food waste) may be placed directly on compacted soil or gravel and does not require liners or specific containment systems for receiving, chip-grind, or processed material stockpiles. However, the inclusion of food-waste requires provisions for containment and handling included in this Option.

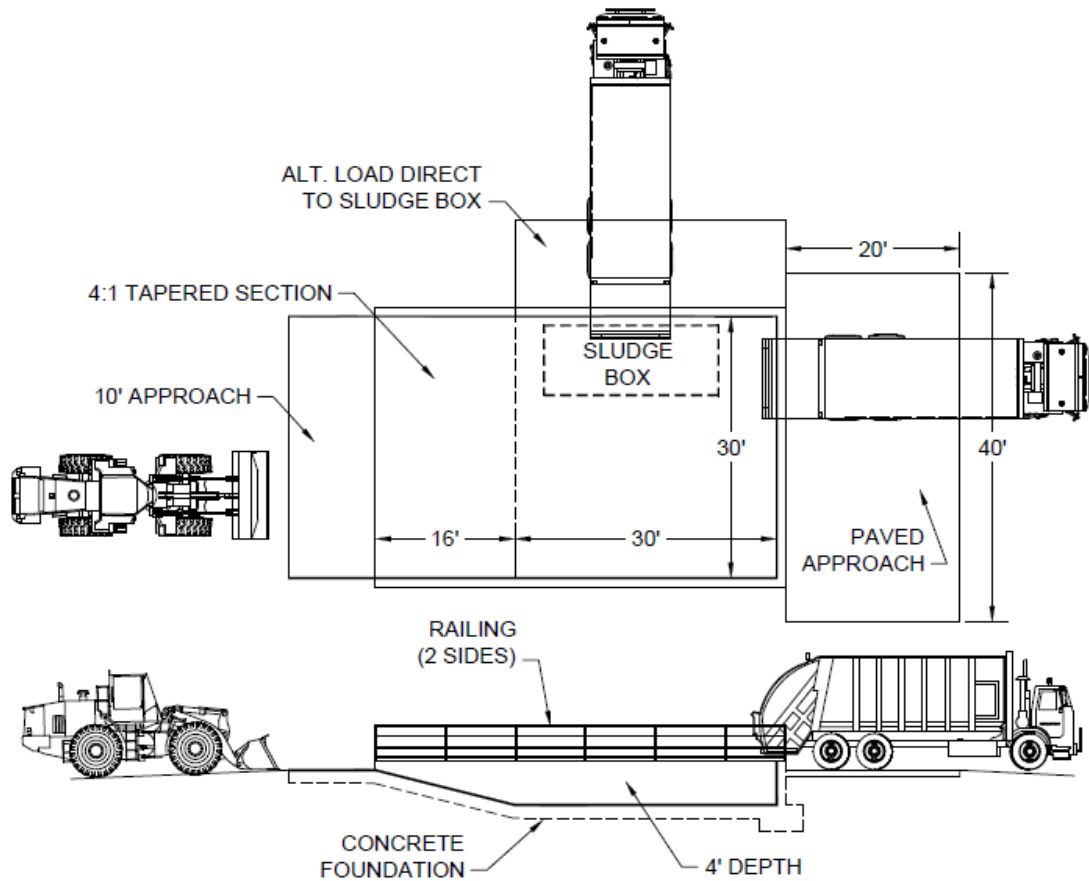
Based on data from the Agency, approximately 1,307 tons per year of food waste will be generated for collection, processing and management purposes. This equates to roughly 5 tons per day on a 5-day per week average and is doubled for peak purposes (10 tpd) and then multiplied by a 5-day week for onsite storage/design purposes (50 tons). As indicated in the Technical Report for the compost facility, food waste is estimated at 800 lb/cy. A 50 ton storage capacity is calculated to require roughly 3,400 cubic feet of storage.

A concrete bunker system, similar to an in-ground loading dock, is the concept design to accommodate onsite storage for food waste. Operationally, food waste will be received at the bunker and then loaded into roll-off style watertight containers (sludge boxes) for transport to the compost facility in Anderson or similar permitted facility. The bunker design also allows for unloading from haul-trucks directly into the sludge box, when conditions allow. A schematic of the bunker system is included on the following page. The design is 3-sides, with an approach, ramp, and bottom area. Railing will be used on the non-loading sides of the perimeter walls and an approach pad will be installed where materials are unloaded to the bunker. The size shown accommodates more than 50 tons of material to allow for a 5-day storage or blending of greenwaste, when necessary, depending on the consistency of the food waste feedstock.

Organics handling is split between materials containing food-waste products, and greenwaste materials only. Greenwaste only may be received, processed, and stored on compacted gravels over existing soils. Food-waste materials require containment and special handling. Onsite equipment would utilize existing front-end loaders from the self-haul pad. A concrete bunker, roll-off truck, and two (2) sludge boxes would be required for operational purposes⁶.

⁶ Additionally, prior to implementation of the Offsite Transportation Scenario, a revision to the hauling contracts between the Operating and jurisdictions may be required.

Conceptual bunker (offsite transport option) shown below:



Construction Cost Estimates

For both Options 1 and 2, construction cost includes a summary of site construction and anticipated operational costs. Itemized breakdown of estimated costs are shown in the attachments and summarized as follows for a tipping fee impact:

- Option 1: Onsite Composting \$26.55/ton increase
- Option 2: Offsite Transportation (with food-waste) \$9.35/ton increase

The increases to the tipping fee shown above reflect total costs spread over all received tonnage at the facility, 63,650 tons/year and increasing 2.5% for the duration of the contract⁷. Option 3 reflects existing conditions and compliance.

⁷ Based on 9 years remaining on the contract. Each respective year that an option is not implemented will increase the tipping fee cost shown due to less overall tonnage to spread the costs.

Recommendation

Based on current facility compliance with the regulation towards organics management, and current time of year, it is recommended that Option 2 be considered for future planning and compliance purposes as part of the 2027 June Board meeting with a recommended increase to the tipping fee accordingly. At such time, Contractor should also be directed to proceed towards design and permitting for the proposed bunker improvements with the objective to complete construction by end of 2028. Onsite composting is currently discouraged due to the significant increase in tipping fee cost while providing no improvements for the landfill or MRF itself.

Should you have any questions, please contact me at (530) 391-7650.

Sincerely,

A handwritten signature in black ink, appearing to read 'Dave Brown', written in a cursive style.

Dave Brown
Regional Engineer – CA
Waste Connections

Cc: Amanda Garrett, Greenwaste of Tehama, WCI

**Tehama Landfill Compost Facility
Capital and Annual Operational Cost Estimate Summary
Option 1: Onsite Composting**

Item	Fixed Capital Costs	Amount (\$)
#1	Permitting, Design and Construction	\$1,233,129
#2	Equipment Costs (Newer Used)	\$2,721,672
	Total Initial Capital Costs	\$3,954,801
	Annual Operations Costs	
#3	Equipment Fuel and Maintenance Costs	\$232,432
#4	Monitoring and Reporting Costs	\$19,484
#5	Labor Costs	\$460,244
#6	Fees, Accounting, Training, Insurance, Misc.	\$100,000
#7	General Facility Maintenance Costs	\$78,790
#8	Operator Profit and Overhead (20% of annual costs)	\$178,190
	Annual Operations Costs	\$1,069,139

Potential Impacts on Tipping Fee		
	Remaining Periods (years) on Contract	9
	Average Tonnage received annually	63,650
	Total Tonnage over remaining Period w/ 2.5% increase (tons)	649,441
	Initial Capital Cost (from above)	\$3,954,801
	Annual Operations * Remaining Periods (years)	\$9,622,252
	Total Capital and Annual Cost	\$13,577,054
	Estimated Tipping Fee Increase	\$26.55

**Tehama County/Red Bluff Landfill Compost Facility
Construction Cost Estimate - Initial Site Work, Onsite Composting
March 2026 - D. Brown (WC)**

Assumptions:

1. Estimated costs based on 2025 dollars
2. Assumes CEQA and Permitting complete, re-design for smaller footprint only
3. Costs for construction based 50% of overall facility (per L&A Technical Report)
4. Construction costs assume unit prices for private project (non-prevailing wage)

Permitting, Design, Services During Construction, and Construction Cost Estimate

			Total (\$)
Construction Cost (2025 Dollars)			\$1,110,927
CQA Services During Construction	8% of Construction Cost		\$88,874
Engineering Services During Construction	3% of Construction Cost		\$33,328
TOTAL			\$1,233,129

ENGINEERS ESTIMATE

Item	Description	Unit	Quan	Unit Price	Amount
General Requirements					
1	Mobilization	%	6	\$72,000.00	\$72,000
2	Health and Safety	LS	1	\$5,250.00	\$5,250
3	Prepare SWPPP	LS	1	\$11,000.00	\$11,000
4	Field Engineering	LS	1	\$25,000.00	\$25,000
5	Additional Construction Water	100 CF	1,000	\$6.11	\$6,110
6	Traffic Control	LS	1	\$5,500.00	\$5,500
General Areas					
7	Clearing and Grubbing	Acre	1	\$9,132.00	\$9,132
8	6" Class 2 Aggregate Base w/ 8-oz Woven Geotextile - Roads, Light Duty	SF	39,450	\$2.20	\$86,790
Stormwater Basin					
9	Remove Wet or Unsuitable Soil from Basin	CY	400	\$10.20	\$4,080
10	Rip and Recompact (71,900 sf x 1.1' * 50%)	CY	1,465	\$5.56	\$8,147
11	Basin Subgrade Preparation for Liner	SF	40,000	\$0.60	\$24,000
Composting Pad					
12	Regrade (cut/fill) Compost Pad Subgrade	CY	4,250	\$5.56	\$23,641
13	Rip & Recompact Cut Areas (93,000 sf x 1.1')	CY	1,894	\$5.56	\$10,538
14	Fine grading	SF	43,560	\$0.60	\$26,136
15	12" Class 2 Aggregate Base w/ 8-oz Woven Geotextile	SF	87,120	\$4.80	\$418,176
16	Water Storage Tank - 10k gal capacity	LS	1	\$40,000.00	\$40,000
17	Misting/De-Odorizer System (Fogco w/ Tracer)	LS	1	\$50,000.00	\$50,000

Retention Basin Liner, Underdrain & Lysimeter					
18	Liner Mobilization	LS	1	\$5,000.00	\$5,000
19	60-mil HDPE Geomembrane, Double-Sided Textured	SF	40,000	\$1.66	\$66,240
20	HDPE Protective Rub Pads	LS	1	\$5,000.00	\$5,000
21	Liner Vents	Ea	3	\$100.00	\$300
22	Ballast Tubes (poly pipe w/ sand or slurry)	LF	500	\$61.10	\$30,550
23	Anchor Trench	LF	550	\$31.82	\$17,498
24	Geoelectric Leak Test Support	LS	1	\$4,400.00	\$4,400
25	Lysimeter and Subdrain Sump, Risers, HDPE Liner/Boots, and Bollards	LS	1	\$50,000.00	\$50,000
26	Perforated Subdrain Pipe and Trench	LF	250	\$90.50	\$22,625
27	Emergency Spillway	LS	1	\$7,082.00	\$7,082
28	Truck Fill Draft Hose and Standpipe	LS	1	\$15,000.00	\$15,000
Erosion Control					
29	Seeding, Fertilizer, and Mulching	Acre	0.5	\$5,985.00	\$2,993
30	Straw Wattles	LF	1,000	\$4.40	\$4,400
Storm Drainage					
31	Grass-Lined Ditch	LF	400	\$22.00	\$8,800
32	18" Drop Inlet with Side Entry and Anti-Seep Collar	Ea	1	\$6,079.50	\$6,080
33	36" Clean-out Box	Ea	1	\$6,079.50	\$6,080
34	18" N-12 Culverts	LF	100	\$85.00	\$8,500
35	Rip-Rap Outfall	LS	1	\$8,800.00	\$8,800
36	All Other	LS	1	\$16,081.00	\$16,081
Total Base Bid Items Estimate					\$1,110,927

**Tehama County/Red Bluff Landfill Compost Facility
 Equipment Cost Estimate - Onsite Scenario
 March 2026 - D. Brown (WC)**

Assumptions:

- All equipment shown is new or newer used equipment
- Price for new equipment based on quotes or list prices
- Delivery and assembly assumed at \$15,000 for each piece of equipment

Equipment	Cost
Used Track-mounted Horizontal Chipper/Shredder, Rotochopper	\$682,193
Used Track-mounted Excavator, Caterpillar 320	\$322,000
New CAT Wheel Loader 938-BR	\$430,371
Used On-Road Water Truck, Peterbilt 340	\$167,474
Used Trailer-mounted Trommel Screen, Vermeer TR626	\$297,421
Used Airlift Model AL400D Waste Separator	\$71,843
New CAT Wheel Loader 938-BR (2nd Req'd)	\$430,371
Used New RO Truck	\$320,000
Total	\$2,721,672

Tehama County/Red Bluff Landfill Compost Facility
Equipment Cost Estimate
May 2026 - D. Brown (WC)

Equipment Fuel and Maintenance Cost Estimate Summary	Total (\$)
Fuel and Maintenance Costs (see detailed costs below)	\$232,432

Assumptions:

- Active windrow composting is 28 days
- Static compost curing is 60 to 90 days
- Finished compost may be stored up to 365 days
- Compost Facility may receive up to 10,000 cubic yards of organic feedstock per year (8,346 tons in 2025)
- Foodwaste estimated at 1,307 tons per year (value from LF Agency)
- Compost production per month 436 cubic yards/month average
- Cost of off-road diesel shown at \$3.66/gallon (red), and \$4.83/gal (on-road)

Equipment Estimated Usage, Fuel, and Maintenance	Fuel GPH	Hrs/Day	Annual Hrs	Fuel Cost (Annual)
Used Track-mounted Horizontal Chipper/Shredder, Rotochopper	10	1.54	402	\$14,711
Used Track-mounted Excavator, Caterpillar 320	10.64	3.2	835	\$32,525
New CAT Wheel Loader 938-BR	2.68	3.84	1002	\$9,831
Used On-Road Water Truck, Peterbilt 340	4.15	4	1044	\$15,857
Used Trailer-mounted Trommel Screen, Vermeer TR626	3.5	1.2	313	\$4,012
Used Airlift Model AL400D Waste Separator	10	2.31	603	\$22,067
New CAT Wheel Loader 938-BR	2.68	3.84	1002	\$9,831
	MPG	Mileage	Gal / year	Fuel Cost
New RO Truck	6	18770	3128	\$15,110
			Subtotal	\$123,943
Maintenance Cost			Monthly	Annually
Used Track-mounted Horizontal Chipper/Shredder, Rotochopper			\$4,354	\$52,252
Used Track-mounted Excavator, Caterpillar 320			\$939	\$11,270
New CAT Wheel Loader 938-BR			\$655	\$7,860
Used On-Road Water Truck, Peterbilt 340			\$582	\$6,990
Used Trailer-mounted Trommel Screen, Vermeer TR626			\$1,231	\$14,770
Used Airlift Model AL400D Waste Separator			\$155	\$1,855
New CAT Wheel Loader 938-BR			\$655	\$7,860
		Cost/Mile	Monthly	Annually
New RO Truck		0.30	469.25	5,631
			Subtotal	108,489

Tehama County/Red Bluff Landfill Compost Facility
Monitoring and Reporting Cost Estimate
March 2026 - D. Brown (WC)

Assumptions:

1. Estimated costs based on 2025 dollars
2. Cost estimate assumes quarterly sampling of Compost Retention Basin and underdrain
3. Cost estimate assumes monthly lysimeter monitoring will be performed during other field work
4. Cost estimate assumes technician will mobilize from Sacramento Area, 4 times per year
5. Scope of monitoring and reporting may increase and will depend on regulatory review
6. Labor rates based on local consulting rates
7. Cost estimate assumes annual inspection will be performed by staff geologist
8. Cost estimate assumes 12 metals and coliform analyses per year (1 per 5,000 cy of compost)
9. Cost estimate assumes landfill staff will collect metal and coliform samples
10. Estimate does not include markup

Equipment / Labor / Material	Units	Quantity	\$/Unit	Cost
Mobilize/Demobilize				
Technician, mobilize to site	Hr	24	\$100.00	\$2,400.00
Mileage	Ea	1400	\$1.00	\$1,400.00
Perform Sampling and Reporting				
Technician	Hr	24	\$100.00	\$2,400.00
Technician, report data and ship samples	Hr	8	\$100.00	\$800.00
CAD, prepare figures for report	Hr	1	\$100.00	\$100.00
Staff geologist, annual inspection & report	Hr	32	\$175.00	\$5,600.00
Principal, management and review	Hr	4	\$195.00	\$780.00
pH, EC, dissolved oxygen meters, shipping	Lump	1	\$2,000.00	\$2,000.00
			Subtotal	\$15,480.00
Monitoring Parameters (estimate only)				
TDS	Ea	8	\$40.00	\$320.00
Fixed Dissolved Solids	Ea	8	\$50.00	\$400.00
Total Nitrogen forms, nitrate, nitrite, etc.	Ea	8	\$205.00	\$1,640.00
Fecal and Total Coliform	Ea	12	\$42.00	\$504.00
Metals	Ea	12	\$95.00	\$1,140.00
			Subtotal	\$4,004.00
			Total \$/Year	\$19,484.00

Tehama County/Red Bluff Landfill Compost Facility
Annual Labor Cost Estimate
March 2026 - D. Brown (WC)

Assumptions:

All labor is private (not prevailing wage)

Labor costs include payroll tax, vacation, sick leave, and benefits

Labor	Headcount	Rate	Hrs/Week	% Working Compost	Annual Direct Labor + Benefits
Attendant	1	\$25	42.5	94%	\$78,590
Operator	2	\$33	42.5	94%	\$211,712
Supervisor	1	\$39	40	25%	\$30,030
RO Driver	1	\$35	48	100%	\$139,913
				Total	\$460,244

Tehama County/Red Bluff Landfill Compost Facility
Annual Compost Facility Maintenance Cost Estimate
March 2026 - D. Brown (WC)

Drainage and Compost Pad Maintenance:

Clean Retention Basin, Repair Drainages, Repair Compost Pad & Install Base Rock

Assumptions:

- Regrade and add base rock to access roads, unloading and processing areas (1.0-acres)
- Regrade and add base rock to composting and curing pads (1.0-acres)
- Regrade and clean ditches and culvert inlets
- Wash retention basin side slopes with water truck and clean sump using vacuum truck
- Work requires one grader, one vacuum trailer and water truck (with operators) and one laborer
- Equipment rates from I-5 Rentals or United Rentals
- Assume Site Operator will perform work
- Equipment fuel usage estimated at 5 to 7 gallons per hour
- Offroad diesel fuel price estimated at \$2.68/gal

- Assume 40 yards of base rock
- Base rock delivered with tax, \$50 per cubic yard

Item	Units	Quantity	\$/Unit	Total \$
Equipment Rental Delivery	LS	1	\$3,000.00	\$3,000.00
Vacuum trailer rental	Day	2	\$600.00	\$1,200.00
Vacuum trailer fuel (5 gallons/hour, 8 hours)	Gallons	40	\$2.68	\$107.20
Water truck	Day	2	\$600.00	\$1,200.00
Water truck fuel (5 gallons/hour, 16 hours)	Gallons	80	\$2.68	\$214.40
Grader	Day	2	\$1,300.00	\$2,600.00
Grader Fuel (7 gallons per hour/16 hours)	Gallons	112	\$2.68	\$300.16
Operators	Hr	48	\$26.00	\$1,248.00
Laborer	Hr	40	\$23.00	\$920.00
Replace 1/2 acre of AC Pavement	SF	22,000	\$3.00	\$66,000.00
Base rock	LS	1	\$2,000.00	\$2,000.00
Cost of Repairs and Maintenance (\$/yr)				\$78,789.76

**Tehama Landfill Compost Facility
Capital and Annual Operational Cost Estimate Summary
Option 2: Offsite Transportation**

Item	Fixed Capital Costs	Amount (\$)
1	Permitting, Design and Construction	\$399,039
2	Equipment Costs - RO Truck	\$127,357
3	Equipment Costs - 20yd Metal Roll Off Bins	\$17,846
	Total Capital Costs (Used Equipment, Items 1A + 2A)	\$544,242
	Annual Operations Costs	
4	Direct Labor Costs (RO Driver, Operator, Supervisor)	\$97,857
5	Cost of Operations (Truck Variable, Maint, Fuel)	\$39,026
6	General Facility Maintenance Costs	\$8,582
7	Insurance	\$8,523
	Disposal Fee - WM Anderson Facility	
	Cost per Ton	\$88.07
	Tonnage for Disposal (3:1 Greenwaste to Foodwaste)	5228
8	Disposal Fee (Cost * Tons)	\$460,430
	Annual Operations Costs	\$614,418

Potential Impacts on Tipping Fee		
	Remaining Periods (years) on Contract	9
	Average Tonnage received annually	63,650
	Total Tons over Contract w/ 2.5% increase (tons)	649,441
	Initial Capital Cost (from above)	\$544,242
	Annual Operations * Remaining Periods (years)	\$5,529,765
	Total Capital and Annual Cost over Contract	\$6,074,008
	Estimated Tipping Fee Increase (total cost / total tonnage)	\$9.35

**Tehama County/Red Bluff Landfill Compost Facility
Construction Cost Estimate - Initial Site Work, Offsite Composting
March 2026 - D. Brown (WC)**

Assumptions:

1. Estimated costs based on 2025 dollars
2. Assumes no CEQA and no permitting. Structural design only.
3. Costs for construction based on Bunker installation only
4. Construction costs assume unit prices for private project (non-prevailing wage)

Permitting, Design, Services During Construction, and Construction Cost Estimate

			Total (\$)
Structural Design			\$35,000.00
Construction Cost (2025 Dollars)			\$387,416.44
Engineering Services During Construction	3% of Construction Cost		\$11,622.49
TOTAL			\$399,039

ENGINEERS ESTIMATE

Item	Description	Unit	Quan	Unit Price	Amount
General Requirements					
1	Mobilization	LS	1	\$60,000.00	\$60,000.00
2	Field Engineering	LS	1	\$5,300.00	\$5,300.00
Bunker Construction					
3	Clearing and Grubbing	LS	1.00	\$5,000.00	\$5,000.00
4	Excavation for Bunker to subgrade	CY	358	\$15.00	\$5,366.67
5	Class II Aggregate Base below Foundation (18")	SF	1,680	\$4.40	\$7,392.00
6	Concrete (Foundation, Walls, Approaches - 12")	CY	101	\$1,200.00	\$121,333.33
7	Railings (2 sides)	LS	1	\$14,500.00	\$14,500.00
Operations Area Adjacent to Bunker					
8	Regrade (cut/fill) within 50 feet of bunker (1')	CY	837	\$12.00	\$10,044.44
9	12" Class 2 Aggregate Base w/ 8-oz Woven Geotextile	SF	22,600	\$4.80	\$108,480.00
10	Water Tank (50,000 gal)	LS	1	\$50,000.00	\$50,000.00
Total Base Bid Items					\$387,416.44

**Tehama County/Red Bluff Landfill Compost Facility
Concrete Bunker Area maintenance**

Assumptions:

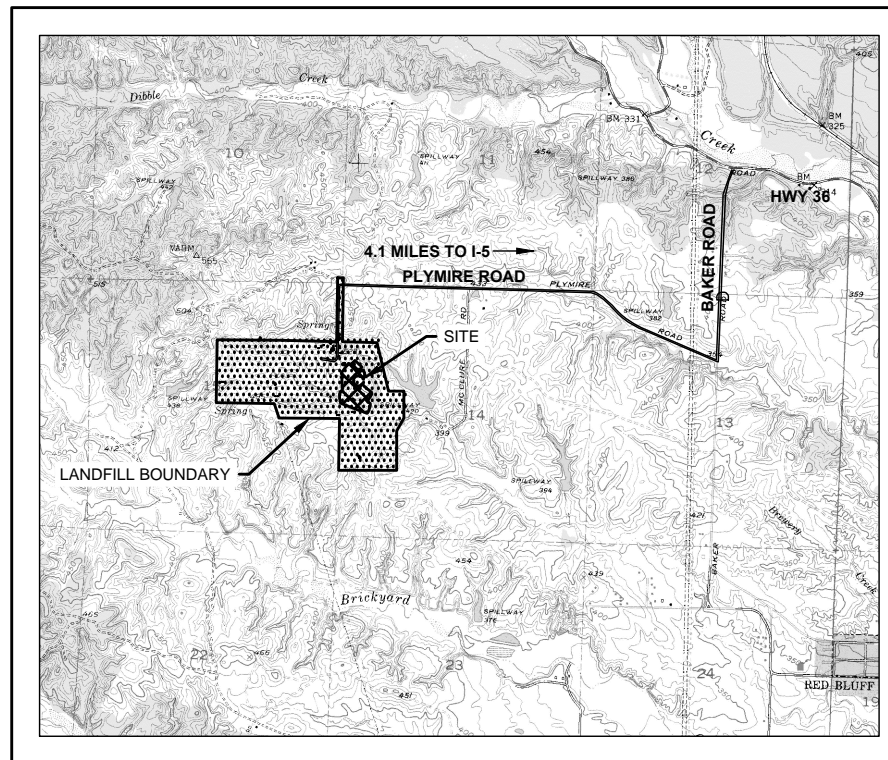
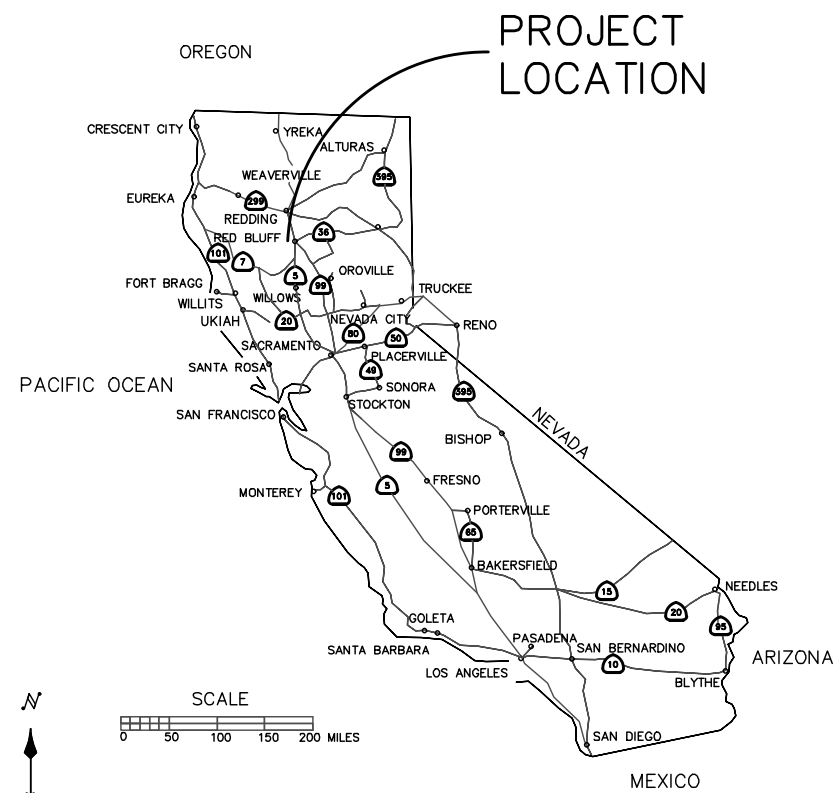
- Regrade and add base rock to access roads, unloading and processing areas (1.0-acres)
- Regrade and add base rock to composting and curing pads (1.0-acres)
- Wash bunker side slopes with water truck and clean sump using vacuum truck
- Work requires one grader, one vacuum trailer and water truck (with operators) and one laborer
- Equipment rates from I-5 Rentals or United Rentals
- Assume Site Operator will perform work
- Equipment fuel usage estimated at 5 to 7 gallons per hour
- Offroad diesel fuel price estimated at \$2.68/gal

- Assume 40 yards of base rock
- Base rock delivered with tax, \$50 per cubic yard

Item	Units	Quantity	\$/Unit	Total \$
Equipment Rental Delivery	LS	1	\$3,000.00	\$3,000.00
Vacuum trailer rental	Day	1	\$600.00	\$600.00
Vacuum trailer fuel (5 gallons/hour, 8 hours)	Gallons	40	\$2.68	\$107.20
Water truck	Day	1	\$600.00	\$600.00
Water truck fuel (5 gallons/hour, 8 hours)	Gallons	40	\$2.68	\$107.20
Operators	Hr	48	\$26.00	\$1,248.00
Laborer	Hr	40	\$23.00	\$920.00
Base rock	LS	1	\$2,000.00	\$2,000.00
Cost of Repairs and Maintenance (\$/yr)				\$8,582.40

TEHAMA COUNTY/RED BLUFF LANDFILL COMPOST FACILITY

SEPTEMBER 2024



INDEX TO DRAWINGS

SHEET	DRAWING TITLE
0.0	COVER SHEET
1.0	OVERALL SITE PLAN
2.0	COMPOST FACILITY LAYOUT
2.1	COMPOST FACILITY LAYOUT C.A.S.P.COMPOST METHOD
3.0	COMPOST RETENTION BASIN
4.0	DETAILS
4.1	DETAILS
4.2	DETAILS
4.3	COVERED AERATED STATIC PILE COMPOSTING DETAILS
4.4	STORMWATER PUMP DETAILS

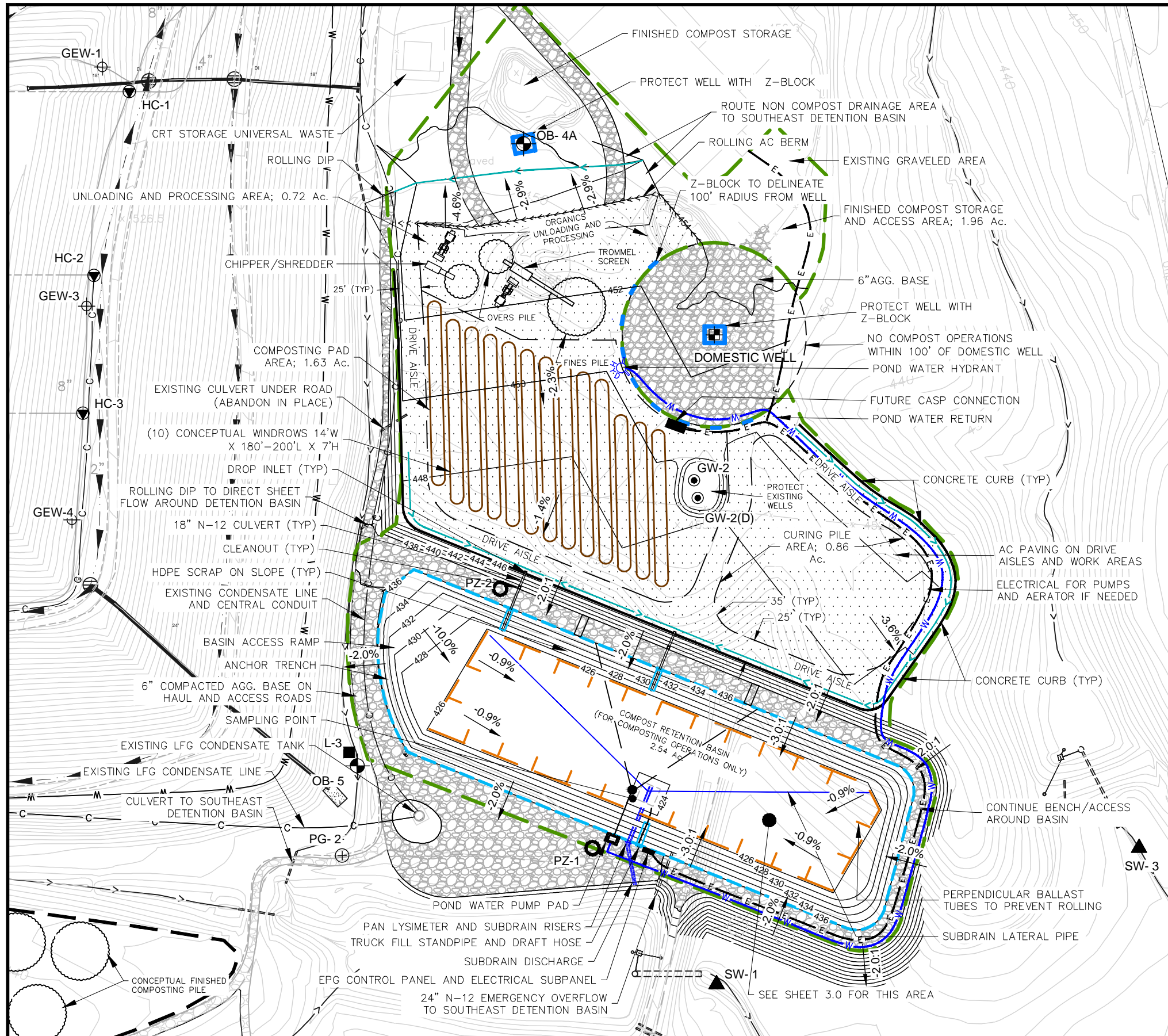
PLANS PREPARED FOR: TEHAMA COUNTY SOLID WASTE
MANAGEMENT AGENCY
(FACILITY OWNER)
SITE CONTACT:
RACHEL ROSS-DONALDSON
20000 PLYMIRE RD.
RED BLUFF, CA 96080
(530) 528-1103

PLANS PREPARED BY:

LAWRENCE AND ASSOCIATES
3590 IRON CT.
SHASTA LAKE, CALIFORNIA 96019
(530) 275-4800

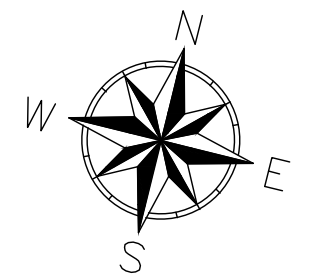
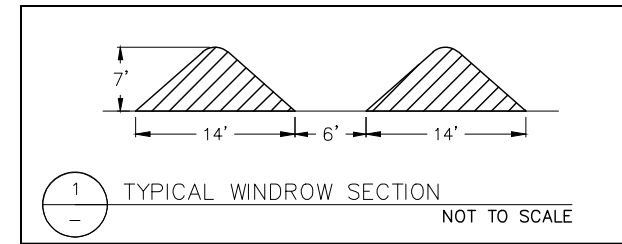


KARL R. SWANSON
CEG 2693



LEGEND			
— 428 —	2/27/2024 CONTOURS	⊕ PG-1	PERIMETER GAS WELL
— 428 —	DESIGN CONTOURS	— W —	LIMITS OF WASTE
⊙ GW-8	PERIMETER GAS MONITORING WELL	— C —	CONDENSATE LINE
⊙ OB-1	GROUNDWATER MONITORING WELL	— < —	EXISTING DITCH FLOWLINE
▲ SW-1	STORMWATER MONITORING POINT	— < —	NEW DITCH FLOWLINE
⊕	WATER WELL (DOMESTIC)	—	NEW CONTAINMENT BERM
■ L-1	LYSIMETER	—	NEW Z-BLOCK
⊙ HC-1	HORIZONTAL COLLECTOR	—	ANCHOR TRENCH
⊙ PZ-1	PIEZOMETER	—	BALLAST TUBE
⊕ PG-1	PERIMETER GAS-EXTRACTION WELL	— E —	NEW ELECTRICAL FOR PUMPS
—	PHASE I ROCK-LINED DITCH	— W —	NEW POND WATER LINE
—	CONCEPTUAL WINDROW	— <<<<<< —	ROLLING BERM
—	AC PAVING	—	AGG. BASE
—	COMPOST OPERATIONS (EST.)	⊙	NEW POND WATER HYDRANT

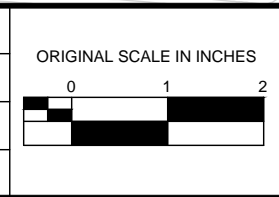
NOTE: THE OPERATIONAL ARRANGEMENT OF THE COMPOSTING PAD WILL BE RECONFIGURED DIFFERENTLY THAN SHOWN FOR BEST EFFICIENCY



CONTOUR INTERVAL = 2'
2-27-2024 TOPOGRAPHY

NO.	DATE	REVISIONS	BY	CHK

PROJECT NO: 018081.00	PROJECT ID:
DRAWN BY: Z. MORGAN	SCALE: 1" = 60'
ENGINEER: K. SWANSON	DATE:
CHECKED BY: C. COLES	DATE:



TEHAMA CO./RED BLUFF LANDFILL COMPOSTING
TEHAMA COUNTY SOLID WASTE MANAGEMENT AGENCY

COMPOST FACILITY LAYOUT (WINDROW COMPOST METHOD)

DRAWING: 2.0
SHEET: OF
DATE: 10/30/2024