



Rivanna Solid Waste Authority

Board of Directors *Special Meeting*

October 23, 2018
2:00pm



RIVANNA SOLID WASTE AUTHORITY

695 Moores Creek Lane • Charlottesville, Virginia 22902 • (434) 977-2970

BOARD OF DIRECTORS

Special Meeting of the Board of Directors of Rivanna Solid Waste Authority

DATE: October 23, 2018

LOCATION: Conference Room, Administration Building
695 Moores Creek Lane, Charlottesville, VA

TIME: 2:00 p.m.

AGENDA

- 1. CALL TO ORDER**
- 2. MINUTES OF PREVIOUS BOARD MEETING**
 - a. Minutes of the Special Meeting of the Board on September 25, 2018*
- 3. RECOGNITION**
- 4. EXECUTIVE DIRECTOR'S REPORT**
- 5. ITEMS FROM THE PUBLIC**
- 6. RESPONSES TO PUBLIC COMMENTS**
- 7. CONSENT AGENDA**
 - a. Staff Report on Finance*
 - b. Staff Report on Ivy Material Utilization Center/Recycling Operations Update*
 - c. Staff Report on Ivy Landfill Environmental Status*
 - d. Staff Report on Ongoing Projects*
- 8. OTHER BUSINESS**
 - a. Presentation: Ivy MUC Master Plan – Convenience Center Layout Alternatives;
Director Of Solid Waste, Phil McKalips*
- 9. OTHER ITEMS FROM BOARD/STAFF NOT ON AGENDA**
- 10. CLOSED MEETING**
- 11. ADJOURNMENT**

GUIDELINES FOR PUBLIC COMMENT AT RIVANNA BOARD OF DIRECTORS MEETINGS

If you wish to address the Rivanna Board of Directors during the time allocated for public comment, please raise your hand or stand when the Chair asks for public comments.

Members of the public requesting to speak will be recognized during the specific time designated on the meeting agenda for "Items From The Public." Each person will be allowed to speak for up to three minutes. When two or more individuals are present from the same group, it is recommended that the group designate a spokesperson to present its comments to the Board and the designated speaker can ask other members of the group to be recognized by raising their hand or standing. Each spokesperson for a group will be allowed to speak for up to five minutes.

During public hearings, the Board will attempt to hear all members of the public who wish to speak on a subject, but it must be recognized that on rare occasion presentations may have to be limited because of time constraints. If a previous speaker has articulated your position, it is recommended that you not fully repeat the comments and instead advise the Board of your agreement. The time allocated for speakers at public hearings are the same as for regular Board meetings, although the Board can allow exceptions at its discretion.

Speakers should keep in mind that Board of Directors meetings are formal proceedings and all comments are recorded on tape. For that reason, speakers are requested to speak from the podium and wait to be recognized by the Chair. In order to give all speakers proper respect and courtesy, the Board requests that speakers follow the following guidelines:

- Wait at your seat until recognized by the Chair.
- Come forward and state your full name and address and your organizational affiliation if speaking for a group;
- Address your comments to the Board as a whole;
- State your position clearly and succinctly and give facts and data to support your position;
- Summarize your key points and provide the Board with a written statement, or supporting rationale, when possible;
- If you represent a group, you may ask others at the meeting to be recognized by raising their hand or standing;
- Be respectful and civil in all interactions at Board meetings;
- The Board may ask speakers questions or seek clarification, but recognize that Board meetings are not a forum for public debate; Board Members will not recognize comments made from the audience and ask that members of the audience not interrupt the comments of speakers and remain silent while others are speaking so that other members in the audience can hear the speaker;
- The Board will have the opportunity to address public comments after the public comment session has been closed;
- At the request of the Chair, the Executive Director may address public comments after the session has been closed as well; and
- As appropriate, staff will research questions by the public and respond through a report back to the Board at the next regular meeting of the full Board. It is suggested that citizens who have questions for the Board or staff submit those questions in advance of the meeting to permit the opportunity for some research before the meeting.

The agendas of Board meetings, and supporting materials, are available from the RWSA Administration Office upon request or can be viewed on the Rivanna website(s)



RIVANNA SOLID WASTE AUTHORITY

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RSWA BOARD OF DIRECTORS Minutes of Regular Meeting September 25, 2018

A regular meeting of the Rivanna Solid Waste Authority (RSWA) Board of Directors was held on Tuesday, September 25, 2018 at 2:00 p.m. in the 2nd floor conference room, Administration Building, 695 Moores Creek Lane, Charlottesville, Virginia.

Board Members Present: Mike Gaffney – presiding, Paul Oberdorfer, Liz Palmer, and Kathy Galvin.

Board Members Absent: Trevor Henry, Mike Murphy, and Jeff Richardson.

Staff Present: Bill Mawyer, Katie McIlwee, Mark Brownlee, David Rhoades, Phil McKalips, Lonnie Wood, Andrea Terry, Scott Schiller, Tim Castillo, Bill Morris, and Michelle Simpson.

Also Present: Mr. Kurt Krueger – RSWA Counsel, members of the public, and media representatives.

1. CALL TO ORDER

Mr. Gaffney called the meeting to order at 2:04 p.m.

2. MINUTES OF PREVIOUS BOARD MEETING

a. Minutes of the Regular Meeting of the Board of August 28, 2018

There were no changes to the minutes.

Dr. Palmer moved to approve the minutes of the RSWA September 28, 2018 meeting as presented. Mr. Henry seconded the motion, which passed 4-0-3. Mr. Henry, Mr. Murphy, and Mr. Richardson were absent from the meeting and the vote.

3. RECOGNITION

There were no recognitions presented.

42 **4. EXECUTIVE DIRECTOR'S REPORT**

43
44 Mr. Mawyer reported that this was Mark Brownlee's last week at Rivanna, and the Board had
45 celebrated his retirement the previous month.

46
47 Mr. Mawyer stated that Rivanna had recently started its information technology master plan,
48 which is a spinoff from their strategic planning efforts. He stated they had hired a consultant to
49 help provide a vision for technology and how various systems would be integrated, in an effort to
50 leverage technology as much as possible.

51
52 He reported that the Household Hazardous Waste and Bulky Waste Amnesty Days would
53 commence on September 27.

54
55 Mr. Mawyer stated that Rivanna had begun receiving refuse at the new Ivy Transfer Station
56 earlier that day, and he presented several photos of the operation.

57
58 Dr. Palmer stated that she noticed a lot of water on the floor and realized it had been wet, but she
59 wondered about the drainage situation.

60
61 Mr. McKalips responded that they found there was one roof drain that needed to be turned 90
62 degrees, as it currently spilled out onto concrete and redirected back into the building.

63
64 Mr. Mawyer noted that they have internal drains that collect any water on the floor.

65
66 Mr. McKalips pointed out that the water inside the building was properly managed.

67
68 Dr. Palmer stated that she understood that but was looking at the floor and the wet trash.

69
70 Mr. McKalips stated that the necessary repairs would only cost about \$10.

71
72 **5. ITEMS FROM THE PUBLIC**

73
74 Mr. Gaffney invited items from the public.

75
76 There being none offered, the agenda item was closed.

77
78 **6. RESPONSES TO PUBLIC COMMENTS**

79
80 There were no responses to public comments for this month.

81
82 **7. CONSENT AGENDA**

83 *a. Staff Report on Finance*

84
85 *b. Staff Report on Ivy Material Utilization*

86
87 *c. Staff Report on Ivy Landfill Environmental*

88
89 *d. Staff Report on Ongoing Projects*
90

91 **Dr. Palmer moved to adopt the Consent Agenda as presented. Mr. Oberdorfer seconded**
92 **the motion, which passed 4-0-3. Mr. Henry, Mr. Murphy, and Mr. Richardson were absent**
93 **from the meeting and the vote.**
94

95 **8. OTHER BUSINESS**
96

97 *a. Solid Waste Fees Alternatives Presentation*
98

99 Mr. McKalips reported that staff had undertaken an analysis of the current fee structure and rates
100 charged at the Ivy MUC, with the opening of the new transfer station being the catalyst for the
101 process. He added that one of the strategic plan goals was to improve solid waste services, which
102 was planned to be achieved through increased participation, tonnages, and customer satisfaction.
103

104 Mr. McKalips stated that opening the station may in itself cause positive changes, and the facility
105 would allow large commercial haulers, which could dump right on the tipping floor – allowing
106 Rivanna to process that waste more conveniently. He noted that hopefully that would increase
107 tonnage. He noted that because of the layout of the building, the side entrance, and the way it
108 was set up for traffic to flow, it was hoped that it would ultimately decrease wait times.
109

110 Mr. McKalips stated that they would also consider simplifying the fee schedule, and currently at
111 Ivy they charged a tipping fee based on weights. He stated that mostly through this discussion,
112 they would be talking about the municipal solid waste rates because they address the largest
113 amount of material hauled and had the greatest impact on finances, amount of tonnages, and the
114 overall operations.
115

116 Mr. McKalips reported that Rivanna had a service fee charged for inbound customers, so every
117 county resident paid a \$1 transaction fee when coming onto the site. He stated that non-county
118 residents, which were mostly city residents, paid a \$10 service fee – generating approximately
119 \$82,000 per year –this difference created some negative impressions among the public. Mr.
120 McKalips explained that customers questioned why it was different depending on where they
121 were from, and even led people to try to get around paying different fees by misrepresenting the
122 wastes' origin.
123

124 Ms. Galvin asked what the competitive rates were.
125

126 Mr. McKalips responded that there really was not a competitive rate for service fees, adding that
127 they were started in 2011.
128

129 Dr. Palmer pointed out that Van der Linde charged \$8 if a customer went in and did just a
130 minimum amount.
131

132 Mr. McKalips explained that county residents were charged \$1 for all transactions, with \$10
133 charged for all non-county inbound transactions. He stated that this caused consternation among

customers because Ivy dealt with a lot of very small loads – people with a few hundred pounds of trash or vegetative waste in the back of their pickup truck. He noted that the minimum charge was \$6, so anything 200 pounds or less received a \$6 weight ticket; when adding the service fee, that amount was \$7 for county residents. Mr. McKalips stated that city residents paid an additional \$10, which showed up on their ticket, and this caused some conflict with those paying more.

Mr. Gaffney asked if there was an explanation given as to why that fee was different.

Mr. McKalips responded that it mostly consisted of a statement as to the fact the RSWA Board had established the structure in 2011, but staff did not really go into that explanation. He emphasized that the differential was largely to the city pulling out of the transfer station activity.

Mr. Gaffney noted that this was because the county accepted all the additional expenses and the city did not pay any, and he felt that \$9 was pretty reasonable in light of that.

Mr. McKalips stated that the other aspect staff wanted to consider was the municipal solid waste tipping fees, with an evaluation of what a change to market-based fees would cause. He explained that Rivanna was currently charging \$66 a ton, and the average for surrounding counties was \$55 a ton. Mr. McKalips stated that in inquiring among some private transfer stations, they were in the low \$50 range but they made deals with different haulers, so that number was harder to establish.

Dr. Palmer stated she called Greene County to find out the smaller haulers that drove there to unload, and their cost was \$50.

Mr. McKalips reported that Rivanna received 8,200 tons of MSW the previous year, and decreasing from \$66 to \$55 would result in a \$90K decrease in revenue – so he evaluated how much tonnage they would have to stimulate to offset that deficit.

Ms. Galvin asked if there were bonds floated to build this facility and if the budget was illustrating there was no profit – so the \$90K was cutting into the ability to pay the operations.

Dr. Palmer responded that the county was subsidizing the operation and never expected it to pay for itself, adding that this was for the community and was an expense.

Mr. McKalips stated that they were trying to be conscious of not increasing the deficit. He stated that the question was whether decreasing to a market-based rate would stimulate enough additional tonnage to offset the deficit. He stated they reached out to some of the large haulers in the area, who had originally shown interest in April but were reluctant in their responses when he contacted them again in August. Mr. McKalips stated that they would not commit to bring in significant additional tonnage.

Mr. Gaffney asked if Rivanna was aware whether their contracts called for them to haul all of their waste to the facility they were contracting with.

179 Mr. McKalips replied that most of them do not have contracts, just agreements on a specific rate.
180 He stated the only one he knew of that had a contract was Waste Management, which was
181 hauling its material to Republic in Zions Crossroads in a unique deal wherein they brought it to
182 Republic, which loaded it into Waste Management trucks and those drivers taking it to a Waste
183 Management landfill. He presented a table with average area costs, stating that \$66 was the
184 current tipping fee and he provided some other potential tipping fees and what it would take in
185 tonnage to offset that. Mr. McKalips stated that the threshold was 5,500 tons and stated that four
186 tons a day was about 1,000 tons per year. He stated that 2,100 tons would be another eight tons a
187 day, which would be about one reasonably large commercial hauler – with the current average
188 being about 40 tons per day.

189
190 Mr. Gaffney noted that this would require about a 20% increase.

191
192 Mr. McKalips responded that this was why they were targeting large haulers, and a few
193 commercial haulers would drive those numbers up.

194
195 Ms. Galvin commented that the commercial haulers were the ones drawn to the municipalities
196 with the lower tipping fees.

197
198 Mr. McKalips stated they were largely going to the larger ones at Zions Crossroads.

199
200 Ms. Palmer explained that they could have a special deal and a lot of the smaller and mid-sized
201 haulers had been put out of business due to competition from the big ones.

202
203 Mr. McKalips added that because they were hauling bigger trucks, the distance from here to
204 Zions was not as big a penalty.

205
206 Ms. Galvin mentioned that gasoline had not gone up yet.

207
208 Dr. Palmer stated that labor costs were also a factor, adding that Rivanna did not necessarily
209 have to match the lowest tipping fees, as some of the smaller haulers would stimulate some
210 people to go into the business. She stated they would just need to find that reasonable nexus of
211 where they were saving more on labor, time, gas, and wear and tear on their trucks. Dr. Palmer
212 added that she had spoken to a hauler in Greene County that did everything north of I-64 and
213 west of Route 29, and he told her the main reason he did not go to Ivy was the fact it took too
214 long – and the tipping fee was a secondary factor.

215
216 Ms. Galvin asked who would be in a city business or organization that would be the equivalent to
217 a commercial hauler that could use Ivy and was currently using another vendor.

218
219 Mr. McKalips stated that he had spoken with Boyd McCauley at Time Disposal, and his
220 complexity was how to get single-stream recycling done, which was currently not offered
221 through the transfer station – but could be if they could find someplace to take it. He stated that
222 Rivanna's hauler was having difficulty finding anyone to take that recycling at a reasonable
223 price, which was related to the recycling market.

225 Ms. Palmer asked if they were checking to see if there were places that would take it without the
226 glass, if they took some of the things that normally got crushed.

227
228 Mr. McKalips responded that they had not gotten down to that level of discussion, but he felt it
229 was something they could consider doing as it would add value to the stream so they would not
230 have as much to sort through.

231
232 Ms. Galvin asked about facilities like Habitat for Humanity and where they went.

233
234 Mr. Oberdorfer responded that it was typically Van der Linde.

235
236 Dr. Palmer stated that her understanding was that the housing authority went to Ivy after they
237 cleaned up.

238
239 Mr. Oberdorfer replied that he did not know.

240
241 Mr. Gaffney stated that if they were looking at lowering fees and taking risks, whether they
242 would get enough trash to at least break even on those, who would be at risk.

243
244 Dr. Palmer explained that it was the county because it was their money, and the question for her
245 was the service fee and the tipping fee – the latter of which was just a county issue. She stated
246 that if in the future they got the city to direct its trash to Ivy, the tipping fee became important to
247 them also. Dr. Palmer stated that her concern was also what length of time it would take if they
248 were going to do a trial in which they lowered the tipping fee down to \$55.

249
250 Mr. McKalips responded that it would require at least a few years, as it would require people to
251 buy a truck and go into the trash business.

252
253 Mr. Oberdorfer explained that the city had advertised an RFP for transfer station services
254 because of the issue with Van der Linde, and that RFP was open until October 11 – with five
255 years and an additional 15 one-year term extensions. He stated they have a hauling contract and
256 transfer station contract, with Van der Linde covering the latter and defaulting on that because of
257 the change of ownership. He noted that County Waste picked up the hauling.

258
259 Dr. Palmer stated that County Waste and Waste Management were about the only two industries,
260 adding that they also had recycling at the same time – and there were only so many who could
261 compete.

262
263 Mr. Oberdorfer pointed out that typically they strike agreements behind closed doors with
264 transfer station owners to get the rate where they needed to be for their cashflow model.

265
266 Dr. Palmer stated that there were likely only two haulers bidding on these contracts.

267
268 Mr. Oberdorfer clarified that County Waste would still be the hauler for the next year until they
269 had a new hauling contract, but the transfer station services were out to bid.

271 Ms. Galvin asked why the RSWA with the Ivy MUC couldn't just go into bid.
272
273 Mr. Gaffney responded that they would have to find out how much waste it was, because they
274 had a limit as to how much they could take at Ivy.
275
276 Mr. McKalips stated that it was within their limits at 6,500.
277
278 Mr. Gaffney asked if the old rate could be shared.
279
280 Mr. Oberdorfer responded that they were paying \$39 at Van der Linde with the recycling, and
281 once that was taken off the table, the rate went to \$49.
282
283 Mr. Krueger asked if that was just for transfer station services and not disposal, as their rate
284 reflected both.
285
286 Mr. Oberdorfer stated that he would have to go back and see exactly what the parameters were,
287 stating that they did not own the transfer station at the time the contract with Van der Linde was
288 executed.
289
290 Dr. Palmer stated that they could underbid it at \$49, but they would have to publicly come out
291 with a tipping and rate schedule – and they would just have to go \$1 below. She emphasized that
292 this was problematic, although she liked the idea.
293
294 Ms. Galvin stated that local government received competitive bids on that.
295
296 Dr. Palmer clarified that they could also stipulate in their contract that the trash had to go
297 somewhere.
298
299 Mr. Oberdorfer stated that was the case if it was both hauling and transfer services, and they
300 were looking at that as a feature of a new hauling contract. He stated that he would prefer to not
301 to manage two contracts, adding that the process would entail public input and a consultant to
302 engage with residents as to what they wanted to see – calling it a “waste diversion contract”
303 instead of a “refuse contract.” Mr. Oberdorfer stated the RFP would be out for transfer for five
304 years, with a year or two into the hauling portion.
305
306 Dr. Palmer stated that if the city decided they wanted to participate in a community transfer
307 station, they could put out another RFP in a year, combining the two and specifying a location.
308
309 Mr. Oberdorfer stated he was not completely clear on the procurement side of it, but he felt it
310 could be navigated.
311
312 Ms. Galvin suggested that they could talk about it with Mike Murphy, and she wasn't sure what
313 City Council action would be required, if any.
314
315 Mr. Oberdorfer responded that if they could get a single hauling/transfer program for the County,
316 City, and UVA, it would provide a strong public benefit.

317
318 Dr. Palmer stated that it was very helpful to get everyone on board for the public education
319 aspects.
320
321 Ms. Galvin stated that she would like to reduce the service charge for city residents but wasn't
322 sure if that was premature in light of the contract issues.
323
324 Mr. Oberdorfer responded that he thought it was independent and they would need to specify
325 logistics.
326
327 Mr. McKalips stated that there was a "wait and see" option wherein they could evaluate how the
328 new transfer station facility did and where contracting went in the next year, as well as the public
329 sense of how it was going.
330
331 Mr. Gaffney stated that if the City were to approve \$48K per year and everyone paid \$1, it would
332 break even.
333
334 Ms. Galvin stated that instead of the user bearing the brunt of that fee, the City would absorb the
335 cost and essentially subsidize the use. She stated it was appealing to her but she would need to
336 have that discussion with the City Manager and City Council, noting the favorable outcome of
337 reducing dumping.
338
339 Dr. Palmer stated that she was in favor of getting rid of the service fee, but she also had to get it
340 through the Board of Supervisors. She added that she did not like the fact that it put them in the
341 situation of doing surveys every year to see who was doing what and the level of use, and it
342 would be nice to find some other way to contribute that did not lock them into that argument.
343
344 Ms. Galvin noted that this was the advantage of having all three entities working together in one
345 system of solid waste management.
346
347 Mr. Oberdorfer asked when they were meeting on that.
348
349 Ms. Galvin confirmed that it was in early October, adding that it could be raised then.
350
351 Dr. Palmer stated that the agenda may be too full to add anything else, but they could certainly
352 bring it up as a quick discussion.
353
354 Mr. McKalips stated that the program agreement stated that a rate change would have to come at
355 the request of the Board of Supervisors, so the RSWA could ask for that.
356
357 Dr. Palmer stated that for the present time, she would ask the Board if they would consider a
358 tipping fee reduction if Rivanna could figure out some short-term plan as they were working to
359 get everyone together – and it was hard to bring that forward without some kind of contribution
360 from the City.
361
362 Ms. Galvin noted that this would be a budget transfer to go directly to the RSWA.

363
364 Mr. Mawyer stated that was the same process for the County.
365

366 Ms. Galvin emphasized that she would prefer to talk about it in the context of a larger strategic
367 discussion regarding how they manage solid waste.
368

369 Mr. Oberdorfer stated it may be possible to cover it in the short term.
370

371 Dr. Palmer stated that they may end up having less waste like mattresses.
372

373 Ms. Galvin stated it may shift the cost burden away from City Public Works.
374

375 Mr. Oberdorfer added that they could look at their bulk item pickup program for fees, to move
376 some of the business over and create a better partnership, even though the numbers were small.
377

378 Dr. Palmer stated that there was information about things needing to be corrected with the new
379 transfer station – one being the drain – and she wasn't sure about other issues.
380

381 Mr. McKalips responding that the water collection system was leaching from inside the building,
382 the plumbing needed to get rerouted, and they were working on getting that done. He stated that
383 the original alignment for routing it turned out to not be working the way they wanted, so they
384 were rerouting it along a different alignment.
385

386 Mr. Mawyer clarified that it was the pipe going from the building to the leach pond that needed
387 to be replaced. He also mentioned that DEQ had noted some cracks but Rivanna had sealed
388 them.
389

390 Dr. Palmer commented that she would like to do the contest she had mentioned about naming the
391 transfer station. She also stated they had discussed at the county's Solid Waste Alternatives
392 Advisory Committee what the cost would be to do the composting and Ivy, and she would like to
393 get a price on that so they could get it into the budget.
394

395 Mr. McKalips responded that the master plan consultant, Arcadis, had to have all the design and
396 cost to Rivanna by the next meeting.
397

398 Mr. Galvin asked if UVA was involved.
399

400 Dr. Palmer responded that UVA Sustainability Director Jesse Warren was active in SWAAC and
401 was involved in all these conversations.
402

403 Mr. Mawyer noted that the compostable food waste program started with UVA, and it was taken
404 in at Ivy currently – then went to Black Bear's composting facility.
405

406 Dr. Palmer stated that from 2014 on, UVA had been present at all SWAAC discussions.
407

Mr. Mawyer stated that if they can get it done through the master plan, the consultant could estimate the compost cost.

Dr. Palmer stated she would also like to see a cost comparison between hiring Rivanna employees and contracting it out.

Mr. McKalips stated that they would just have to see what the need was.

9. OTHER ITEMS FROM BOARD/STAFF NOT ON AGENDA

There were none presented.

10. CLOSED MEETING

There was no closed meeting held.

11. ADJOURNMENT

At 2:45 p.m., Ms. Palmer moved to adjourn the RSWA Board meeting. Mr. Oberdorfer seconded the motion, which passed 4-0-3. Mr. Henry, Mr. Murphy, and Mr. Richardson were absent from the meeting and the vote.

The RSWA Board adjourned its meeting at 2:45 p.m.



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MEMORANDUM

**TO: RIVANNA SOLID WASTE AUTHORITY
BOARD OF DIRECTORS**

FROM: BILL MAWYER, EXECUTIVE DIRECTOR

SUBJECT: EXECUTIVE DIRECTOR'S REPORT

DATE: OCTOBER 23, 2018

Household Hazardous Waste and Bulky Waste Amnesty Days

SP GOAL: Environmental Stewardship; Solid Waste Services

The fall Amnesty days were very well attended. 706 vehicles brought HHW products, 179 vehicles brought furniture and mattresses, and 289 vehicles brought appliances.

Pumpkin Recycling

SP GOAL: Environmental Stewardship; Solid Waste Services; Communication and Collaboration

We will host a "Pumpkin Smash" at the McIntire Recycling Center on Saturday, November 10, to collect pumpkins for composting.



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MEMORANDUM

**TO: RIVANNA SOLID WASTE AUTHORITY
BOARD OF DIRECTORS**

**FROM: LONZY WOOD, DIRECTOR OF FINANCE AND
ADMINISTRATION**

SUBJECT: SEPTEMBER 2018 FINANCIAL SUMMARY

DATE: OCTOBER 23, 2018

The results of operations and remediation activities for the first quarter of this fiscal year are summarized below and in the attached statements.

	<u>Operating Results</u>	<u>Remediation Results</u>	<u>Total</u>
Total Revenues	\$ 390,333	\$ -	\$ 390,333
Total Expenses	<u>(561,142)</u>	<u>(223,109)</u>	<u>(784,251)</u>
Net operating results	(170,809)	(223,109)	(393,918)
Support - MOU & Local	<u>290,138</u>	<u>155,922</u>	<u>446,060</u>
Surplus/(Deficit)*	<u><u>\$ 119,329</u></u>	<u><u>\$ (67,187)</u></u>	<u><u>\$ 52,142</u></u>

* Cash reserves are used when deficits occur. (Use of up to \$390,000 in reserves for an expected shortfall for remediation was included in FY 2019 budget.)

Total operating revenues through September were \$65,000 over budget and total operating expenses were \$40,000 under budget. The Authority processed 6,139 tons of waste this fiscal year. A breakdown of net revenue or cost per ton, including overhead and administrative support costs, is shown below.

	<u>Ivy MSW</u>	<u>Ivy - All Other</u>	<u>Recycling</u>	<u>Total</u>
Tonnage	2,440	3,179	520	6,139
Net operating revenue (costs)	\$ (70,464)	\$ 5,691	\$ (106,036)	\$ (170,809)
Net revenue (cost) per ton	\$ (28.88)	\$ 1.79	\$ (203.92)	\$ (27.82)

Attachments

RIVANNA SOLID WASTE AUTHORITY
REVENUE AND EXPENSE SUMMARY REPORT
FISCAL YEAR 2019
FOR THE MONTH ENDED 9/30/18

Target Rate: 25.00%

Operations	Budget	Actual Y-T-D	IVY OPERATIONS		MSW-IVY TRANSFER		RECYCLE OPERATIONS		ADMIN. SERVICES	
				Actual		Actual		Actual		Actual
			Budget	Y-T-D	Budget	Y-T-D	Budget	Y-T-D	Budget	Y-T-D
REVENUES										
Ivy Operations Tipping Fees	\$ 158,960	70,703	\$ 158,960	70,703						
Ivy MSW Transfer Tipping Fees	648,200	185,816			648,200	185,816				
Material & Other Sales-Ivy	121,500	41,728	121,500	41,728						
Recycling Revenues	251,900	32,564					251,900	32,564		
Other Revenues	77,200	41,402			77,200	41,402				
Interest & Fees	44,500	18,120							44,500	18,120
Total Revenues Budget vs. Actual*	\$ 1,302,260	\$ 390,333 29.97%	\$ 280,460	\$ 112,431 40.09%	\$ 725,400	\$ 227,218 31.32%	\$ 251,900	\$ 32,564 12.93%	\$ 44,500	\$ 18,120 40.72%
EXPENSES										
Ivy Operations	324,245	70,901	324,245	70,901						
Ivy MSW Transfer	1,186,282	261,842			1,186,282	261,842				
Recycling Operations	452,490	109,928					452,490	109,928		
Administration	694,924	161,478							694,924	161,478
Total Expenses Budget vs. Actual*	2,657,941	604,150 22.73%	324,245	70,901 21.87%	1,186,282	261,842 22.07%	452,490	109,928 24.29%	694,924	161,478 23.24%
Net Results Before Administrative Allocation	\$ (1,355,681)	\$ (213,817)	\$ (43,785)	\$ 41,530	\$ (460,882)	\$ (34,625)	\$ (200,590)	\$ (77,364)	\$ (650,424)	\$ (143,358)
Administrative allocations: Administrative costs to Envir. MOU (below)	195,127	43,008							195,127	43,008
Administrative costs to Operations	-	-	(162,606)	(35,840)	(162,606)	(35,840)	(130,085)	(28,672)	455,297	100,351
Net Operating Income (Loss)	\$ (1,160,554)	\$ (170,809)	\$ (206,391)	\$ 5,691	\$ (623,488)	\$ (70,464)	\$ (330,675)	\$ (106,036)	\$ -	\$ -
Other Funding Sources										
Local Government Contributions	1,160,554	290,138								
County Contribution - Capital Grant	-	616,837								
Transfer to Capital Fund - Transfer Station	-	(616,837)								
Surplus (Deficit) - Operations	\$ (0)	\$ 119,329								

<u>Environmental Programs</u>		
	Budget	Actual Y-T-D
REVENUES		
Remediation Support	383,741	155,922
Total Revenues	383,741	155,922
Budget vs. Actual*		40.63%
EXPENSES		
Ivy Environmental	578,614	180,101
Administrative Allocation	195,127	43,008
	773,741	223,109
Budget vs. Actual*		28.84%
Cash Reserves Used	390,000	67,187
Surplus (Deficit) - Environmental	\$ -	\$ 0
Total Surplus (Deficit)	\$ (0)	\$ 119,329

**Rivanna Solid Waste Authority
Monthly Financial Status Report
FY 2019**

	July	August	September	Year-to-Date
<u>Revenues</u>				
Ivy Operations Tipping Fees	\$ 26,096	\$ 28,325	\$ 16,282	\$ 70,703
Ivy MSW Transfer Tipping Fees	58,095	75,260	52,461	185,816
Ivy Material Sales	15,367	15,616	10,745	41,728
Recycling	13,491	11,385	7,688	32,564
Other Revenues	10,346	22,279	8,777	41,402
Remediation Support	79,982	48,981	26,959	155,922
Interest & Late Fees	6,834	4,395	6,891	18,120
Total Revenues	\$ 210,212	\$ 206,241	\$ 129,802	\$ 546,255
<u>Expenses</u>				
Ivy Operations	\$ 24,197	\$ 23,653	\$ 23,051	\$ 70,901
Ivy Environmental	32,707	52,123	95,272	180,101
Ivy MSW Transfer	42,723	107,353	111,766	261,842
Recycling Operation	41,155	33,947	34,827	109,928
Administration	56,173	51,092	54,213	161,478
Total Expenses	\$ 196,955	\$ 268,167	\$ 319,129	\$ 784,251
Net Operating Income (Loss)	\$ 13,257	\$ (61,926)	\$ (189,327)	\$ (237,996)
<u>Other Funding Sources</u>				
Local Government Contributions	\$ -	\$ 265,338	\$ 24,801	\$ 290,138
County Contribution - Capital Grant	260,104	207,201	149,533	616,837
Transfer to Capital Fund - Transfer Station	(260,104)	(207,201)	(149,533)	(616,837)
<u>Use of Cash Reserves</u>	-	-	67,187	67,187
Surplus (Deficit)	\$ 13,257	\$ 203,412	\$ (97,339)	\$ 119,329

Rivanna Solid Waste Authority
Monthly Cash Flow Report
FY 2019

	July	August	September
Net Operating Income	\$ 13,257	\$ (61,926)	\$ (189,327)
Adjustments for cash flow purposes to show funds available for operations:			
Local Government Contributions	-	265,338	24,801
(Increase) decrease in accounts receivable	(97,902)	85,761	44,645
Increase (decrease) in accounts payable	(408,602)	(9,818)	28,396
Capital reserve fund interest not available in operating cash	(3,463)	(1,588)	(3,438)
Trust fund interest not available in operating cash	(294)	(271)	(222)
Trust fund release for Transfer Station permit	55,968		
Increase (Decrease) in Operating Cash	\$ (441,037)	\$ 277,495	\$ (95,146)
Operating Cash Balance - Beginning	2,650,834	2,209,797	2,487,292
Operating Cash Balance - Ending	<u>\$ 2,209,797</u>	<u>\$ 2,487,292</u>	<u>\$ 2,392,146</u>

Revenue Detail Report

IVY TIPPING FEES

IVY TRANSFER STATION

MATERIAL SALES - IVY

RECYCLING

OTHER REVENUES

REMEDICATION SUPPORTINTEREST, LATE FEES, OTHER

	Total
--	--------------

500	93
8,200	2,440
8,200	2,440

\$ 89,000	\$ 22,250	\$ 16,594	\$ (5,656)		-25.42%
559,200	139,800	169,222	29,422		21.05%
\$ 648,200	\$ 162,050	\$ 185,816	\$ 23,766		14.67%

\$	215,000	\$	53,750	\$	30,534	\$	(23,216)	-43.19%
	6,300		1,575		606		(969)	-61.53%
	27,000		6,750		-		(6,750)	-100.00%
	3,600		900		1,424		524	58.24%
\$	251,900	\$	62,975	\$	32,564	\$	(30,411)	-48.29%

\$ 79,982	\$ 19,996	\$ 79,982	\$ 59,987	300.00%
195,925	48,981	48,981	-	0.00%
107,834	26,959	26,959	0	0.00%
\$ 383,741	\$ 95,935	\$ 155,922	\$ 59,987	62.53%

\$ 1,686,001	\$ 421,500	\$ 546,255	\$ 124,755	29.60%
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Rivanna Solid Waste Authority Historical Material Tonnage Report - Recycling Fiscal Years 2015-2019
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Fiscal Year 2015	Fiscal Year 2016	Fiscal Year 2017	Fiscal Year 2018	Fiscal Year 2019 (Jul-Sept)
------------------------	------------------------	------------------------	------------------------	--------------------------------------

In U.S. Tons

Fiber Products

Newspaper, magazines, catalogs
Cardboard (corrugated)
Mixed paper and phone books
File stock (office paper)

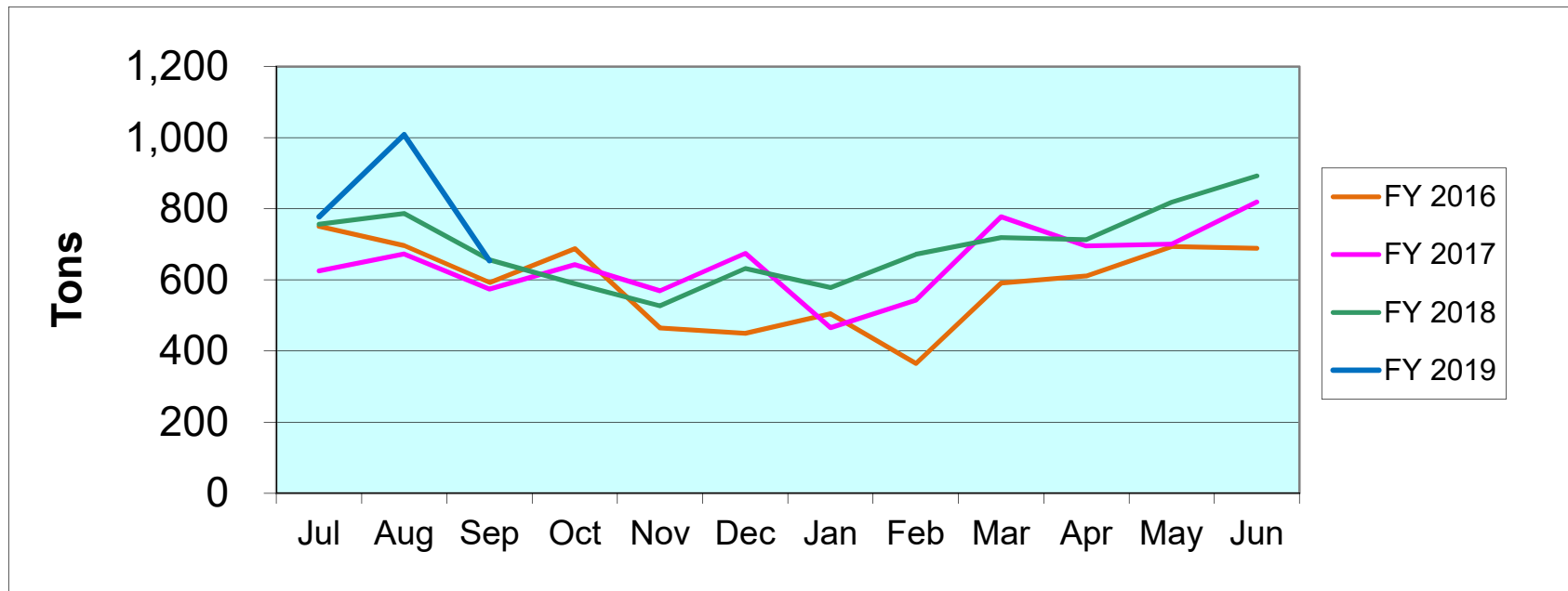
524	512	419	424	96
278	459	812	763	183
212	214	156	187	81
125	125	122	111	35
Total Fiber Products	1,139	1,310	1,509	1,485
				395

Other Products

Glass
Metal Cans
Plastic

219	191	252	252	106
30	32	31	41	4
95	82	86	103	15
Total Other Products	344	305	369	396
Total	1,483	1,615	1,878	1,881
				520

**Rivanna Solid Waste Authority
Ivy MSW Transfer Tonnages
FY 2016 - 2019**





RIVANNA SOLID WASTE AUTHORITY
695 Moores Creek Lane • Charlottesville, Virginia 22902 • (434) 977-2970

MEMORANDUM

**TO: RIVANNA SOLID WASTE AUTHORITY
BOARD OF DIRECTORS**

**FROM: DAVID RHOADES, SOLID WASTE MANAGER;
PHILLIP MCKALIPS, DIRECTOR OF SOLID WASTE**

REVIEWED BY: BILL MAWYER, EXECUTIVE DIRECTOR

**SUBJECT: IVY MATERIAL UTILIZATION CENTER REPORT/
RECYCLING OPERATIONS UPDATE**

DATE: OCTOBER 23, 2018

Ivy Material Utilization Center (IMUC) : DEQ Permit 132: 300 tons/day MSW limit

September 2018

- 3,159 vehicles crossed the scales
- The IMUC transfer station operated 21 days and received a total of 653.97 tons of municipal solid waste (MSW), an average of 31.14 tons per day of operation. The monthly transfer station tonnage figures are attached to this report.
- 641.56 tons of non-MSW materials were received
- 1,295.53 tons were received as a combined total tonnage (MSW + non-MSW)

Paint Collection:

On October 5, 2018, the Ivy MUC shipped out the sixteenth full 30-yard container of paint since the program began in August 2016. RSWA currently has loaded 10 cubic yards of paint which will be included in a future shipment. Each 30-yard container holds about 4,200 one-gallon paint cans. This program continues to make paint disposal more convenient for residents and alleviates some of the congestion during our fall and spring Household Hazardous Waste Days.

Compostable Food Waste Collection:

This program continues to operate smoothly at the IMUC, and is free to residents. A similar bin has been placed at the Transfer Station for the receipt of compostable food wastes from commercial customers. Commercial customers are charged the established disposal fee of \$178 per ton.

The McIntire Recycle Center received 4.17 tons of compostable materials in September.

Fall HHW and Bulky Waste Totals:

Thursday, September 27, Friday, September 28, and Saturday, September 29, 2018: *Special Collections*

The Conditionally Exempt Small Quantity Generator (CESQG) Special Collection for business hazardous waste was held on Thursday, September 27, 2018. CESQG collection program is a pre-registration, fee-based program with sign-up information and instructions on the Rivanna.org website.

Household Hazardous Waste Day was a two-day event this Fall. Hours were from 9am-2pm on both Friday, September 28 and Saturday, September 29, 2018. Wait times on both days this spring was less than 10 minutes. The total customer count for the two-day event was 706 City/County residents. Friday: the split was 232 County, and 58 City. Saturday: the split was 336 County and 77 City. 3 Nelson county residents participated.

Saturday, October 6, 2018: *Furniture / Mattresses*

A total of 179 vehicles participated, including 151 from the County and 28 from the City. 23,480 lbs. of furniture and mattresses were collected from the County, and 4480 lbs. of furniture and mattresses were collected from the City.

Saturday, October 13, 2018: *Appliances*

A total of 289 vehicles participated, including 262 from the County and 27 from the City. 4.75 tons of appliances and 152 freon units were collected from the County, and 0.47 tons of appliances and 21 freon units were collected from the City.

Ivy Material Utilization Center
Daily Scale Crossing Data



September 1-30, 2018

Days of

Operation: 21

Operation: 21		MSW collected at Transfer Station (tons)						Non-MSW
		Vehicles	Count	Citizen-Can	Construction	Domestic	MSW Total	Total Tons
09/01/18	Saturday	241	325	0.83	15.13	24.73	40.69	2.83
09/02/18	Sunday	-	-	-	-	-	-	-
09/03/18	Monday	-	-	-	-	-	-	-
09/04/18	Tuesday	140	149	0.13	10.96	17.51	28.60	15.76
09/05/18	Wednesday	146	149	0.14	14.28	23.89	38.31	39.31
09/06/18	Thursday	121	106	0.43	8.90	15.01	24.34	23.46
09/07/18	Friday	143	174	0.33	14.12	21.19	35.64	14.33
09/08/18	Saturday	234	300	0.69	7.69	22.78	31.16	12.27
09/09/18	Sunday	-	-	-	-	-	-	-
09/10/18	Monday	-	-	-	-	-	-	-
09/11/18	Tuesday	147	185	0.29	10.53	21.24	32.06	12.20
09/12/18	Wednesday	130	125	0.22	16.48	24.81	41.51	12.73
09/13/18	Thursday	105	180	0.30	8.86	14.48	23.64	31.88
09/14/18	Friday	104	112	0.62	6.43	15.49	22.54	38.72
09/15/18	Saturday	167	201	1.02	7.56	16.22	24.80	60.16
09/16/18	Sunday	-	-	-	-	-	-	-
09/17/18	Monday	-	-	-	-	-	-	-
09/18/18	Tuesday	127	211	0.27	7.90	19.30	27.47	29.24
09/19/18	Wednesday	114	118	0.60	10.11	11.28	21.99	80.01
09/20/18	Thursday	132	153	0.72	15.83	16.46	33.01	34.45
09/21/18	Friday	124	147	0.57	9.76	22.50	32.83	46.05
09/22/18	Saturday	231	284	0.73	16.10	21.32	38.15	8.49
09/23/18	Sunday	-	-	-	-	-	-	-
09/24/18	Monday	-	-	-	-	-	-	-
09/25/18	Tuesday	134	157	0.13	14.62	20.89	35.64	118.49
09/26/18	Wednesday	113	143	1.71	10.78	14.89	27.38	17.51
09/27/18	Thursday	90	95	0.65	9.87	15.27	25.79	10.93
09/28/18	Friday	166	198	0.67	11.87	19.62	32.16	20.78
09/29/18	Saturday	250	264	1.08	16.26	18.92	36.26	11.96
09/30/18	Sunday	-	-	-	-	-	-	-
Total		3,159	3,776	12.13	244.04	397.80	653.97	641.56
Average		150	180	0.58	11.62	18.94	31.14	30.55
Median		134	157	0.60	10.78	19.30	32.06	20.78
Maximum		250	325	1.71	16.48	24.81	41.51	118.49
Minimum		90	95	0.13	6.43	11.28	21.99	2.83

Material Type & Description

Citizen-Can: Roll-off container at the Ivy MUC Convenience Center-citizens dispose of prepaid trashbags

Construction: Construction/demolition debris (shingles, sheetrock, treated lumber, etc.)

Count: Transactions per item (appliances, hauling fees, service fees, tag-bag stickers, tires)

Domestic: Business/residential general or household waste

MSW: Materials processed/handled at the Transfer Station

Non-MSW: Materials processed/handled on-site

Vehicle: Transactions or vehicles processed in a day



MEMORANDUM

**TO: RIVANNA SOLID WASTE AUTHORITY
BOARD OF DIRECTORS**

FROM: PHIL MCKALIPS, DIRECTOR OF SOLID WASTE

REVIEWED BY: BILL MAWYER, EXECUTIVE DIRECTOR

SUBJECT: IVY LANDFILL ENVIRONMENTAL STATUS UPDATE

DATE: OCTOBER 23, 2018

Corrective Action Plan (CAP)

The Ivy MUC continues to maintain compliance with VA DEQ regulations and our approved Corrective Action Plan.

On March 14, 2017, VA DEQ provided their Second Technical Review of the revised Corrective Action Plan. In summary, the Department's comments were generally minor administrative corrections or requests for further detail on specific portions of the Corrective Action Plan. Our response to these comments was provided to the Department by the June 12, 2017 deadline. VA DEQ has not provided further comments on the revised Corrective Action Plan or a schedule as to when further comments or an approved Corrective Action Plan may be expected.

This revised Corrective Action Plan was originally submitted in July 2013 and incorporates revised groundwater sampling and reporting requirements. While awaiting finalization, the Department has authorized the Authority to utilize the revised sampling and reporting requirements.

Paint Pit Interim Measure (Soil-Vapor Extraction System)

The Soil-Vapor Extraction (SVE) System has been having control panel electrical issues and is undergoing renovation and repairs. The SVE System is 10 years old and is located outside and exposed to relatively harsh environmental conditions. Electrical issues have begun to increase and in response, staff has determined that a major renovation of the control panel and electrical system is needed to return it to reliable duty.

Surface Water

The Fall 2018 Surface Water Assessment and Sampling Program will begin in October/November. Data from the visual survey and analysis of samples will be included in a tri-annual Corrective Action Site Evaluation (CASE) report to be submitted to VA DEQ in November 2018.

Non-CAP Groundwater Monitoring

The Spring 2018 sampling event has been completed, with no anomalies identified. The results of the analysis of groundwater samples were documented in a report to VA DEQ in August 2018. Efforts are underway to prepare for the Fall 2018 Groundwater Sampling Program to be conducted

in October and November. These groundwater monitoring activities are being completed in accordance with the requirements of our DEQ Permit and the 2000 settlement agreement with the landfill neighbors.

Cell 3 and Leachate Collection and Treatment System

The horizontal drain system to the landfill gas collection system continues to be throttled to maintain proper balance of the system's pressures and flows. Documentation summarizing the activities related to Cell 3 will be submitted to VA DEQ in the 2018 tri-annual Site-wide CASE report.



MEMORANDUM

**TO: RIVANNA SOLID WASTE AUTHORITY
BOARD OF DIRECTORS**

FROM: PHIL McKALIPS, ENVIRONMENTAL AND SAFETY MANAGER

REVIEWED BY: BILL MAWYER, EXECUTIVE DIRECTOR

SUBJECT: STATUS REPORT: ONGOING PROJECTS

DATE: OCTOBER 23, 2018

This memorandum reports on the status of the following project at the IMUC:

1. Ivy Master Plan

Consultant:	Arcadis U.S., Inc.
Project Start:	May 2018
Project Status:	75 % Complete
Completion:	November 2018
Total Contract Cost:	\$42,560

Current Status:

The consultant is continuing to work towards completing the Master Plan for the Ivy site. The plan will be presented to the Board at the November Board Meeting. As an interim deliverable, Arcadis prepared two alternative preliminary designs of a convenience center at the Ivy MUC. These alternative designs were presented to the Board of Directors for comments at the August Board meeting.

History:

Over the past few years, multiple changes have been considered and/or implemented at the Ivy Material Utilization Center (IMUC). The New Ivy Transfer Station is currently under construction and will be opened this fall. Food waste composting has been implemented and a major solar energy project was considered, although not moving forward at this time. The County has inquired about enhancing the recycling services at Ivy MUC to include a convenience center, similar to McIntire Recycling Center. With all of these various developments, staff and the Board decided it would be beneficial to embark on a master planning process.

This project will include development of a Master Plan for a recycling convenience center at the IMUC. The project will begin with the collection of existing Authority data on current recycling activities and materials, and then compare our services to other similar

size communities. The consultant will evaluate proposed services, and provide alternative site layouts and preliminary construction costs for improvements.



MEMORANDUM

**TO: RIVANNA SOLID WASTE AUTHORITY
BOARD OF DIRECTORS**

FROM: PHIL MCKALIPS, DIRECTOR OF SOLID WASTE

REVIEWED BY: BILL MAWYER, EXECUTIVE DIRECTOR

**SUBJECT: IVY MUC MASTER PLAN – CONVENIENCE CENTER LAYOUT
ALTERNATIVES**

DATE: OCTOBER 23, 2018

At the February 2018 Board Meeting, the development of a Master Plan for the Ivy MUC site by Arcadis was approved. This Master Plan project has been undertaken to develop a defined plan for the use of the Ivy MUC property and the nature of waste management, recycling, and other activities that the site could support. The first phase of this project was to develop two alternative preliminary designs for a recycling convenience center at the Ivy MUC. With Board input and approval, the selected convenience center design will be incorporated into the Ivy MUC Master Plan. The Board was first presented two alternative designs for the Ivy convenience center at its August 28, 2018 meeting, and requested further information the cost estimate for the two alternatives.

The Master Plan will also propose an area for potential construction of a composting area. The area currently being considered is located to the north of the new transfer station facility on top of Cell 1 Unlined is shown on Figure 3. The facility is designed to process compostable food waste but could easily include grass clippings and leaves from lawn cleanup. The facility is sized to be capable of receiving several times the quantity of material that is currently received through the existing composting program (500 tons in the last fiscal year). The initial cost to construct and permit this facility is estimated to be approximately \$70,000. Annual operating costs, based on the assumption that no additional equipment or manpower become necessary, is estimated to be approximately \$20,000.

Proposed Convenience Center Alternatives

As shown on the attached figures (and provided in the Board Meeting Presentation), two alternative convenience center locations and layouts are currently being considered (see Figure 1 and Figure 2).

Alternative 1 – Existing Transfer Station Location

The first of these alternatives is based on a development that occupies the soon to be closed

transfer station location (see Figure 1). Based on input from Arcadis and staff, the cost estimate for constructing and permitting the Alternative 1 facility is estimated to be in the range of \$700,000 to \$1,000,000. This alternative establishes a facility that utilizes the existing loading dock of the existing transfer station to create a customer walkway with recyclable material collection container located to the left and right as the customer walks down the central walkway. In this design, materials that will utilize top-loading compactor containers will be located to the right (south-side) of the walkway, so that patrons do not have to move around the compactor motor, compressor, power pack assemblies as they do at the existing McIntire facility.

PROS of this alternative are:

- By placing containers on each side of the walkway, patrons and operating staff will have shorter distance and sight-lines between containers.
- This location maintains certain ease of vehicle considerations by keeping traffic separate from that requiring use of the site scales.
- The majority of site vehicle traffic is kept separate from convenience center patron traffic.
- Does not significantly interfere with currently established traffic patterns for Household Hazardous Waste (HHW) and other Amnesty Days.
- Makes good use of this already-developed part of the Site.

CONS of this alternative consist of:

- Limited potential for future expansion.
- Contains two-way customer traffic patterns.
- Will require interaction between periodic movement of waste hauling trailers coming from the new transfer station and convenience center patrons.

Alternative 2 – Transfer Trailer Parking Area Location

The second alternative will establish a separate facility to be located at the east end of the existing paved area, currently where waste transfer trailers are stored (in the area of the closed Asbestos Disposal Area). Based on input from Arcadis and staff, the cost estimate for constructing and permitting, the Alternative 2 facility is estimated to be in the range of \$700,000 to \$1,000,000, the same range as the Alternative 1 facility. In this alternative, the recyclables collection containers will all be at grade, and access to the containers will be like that at McIntire (*i.e.*, a linear parking area with an adjacent line of collection containers and compactors).

PROS for this alternative:

- Significant room for future expansion to the west.
- Provides longer access road, inbound queuing of traffic on access road.
- All traffic is one-way.
- Eliminates areas of two-way traffic.

CONS of this alternative:

- Creates more interaction between site vehicles and patrons.
- Interferes with established traffic and queuing patterns for HHW and other Amnesty Days.

- Effectively isolates parts of the existing Site from convenient use for ongoing programs.

Staff's preferred design is Alternative 1, as it creates minimal interruption with other site programs (*e.g.*, HHW and Amnesty Day collections). This location also contains a great deal of existing infrastructure (*e.g.*, electricity) that will be needed to install the needed compactors. This location also allows the greatest amount of separation from other existing Site services which will help resolve customer confusion.

Board Action Requested

In order to complete the development of a complete Master Plan for the Ivy MUC, RSWA staff is requesting the Board to select one of the two alternative convenience center designs so that it may be incorporated into the final Master Plan for the Ivy MUC Site.

Figure 1. – Alternative 1 Convenience Center

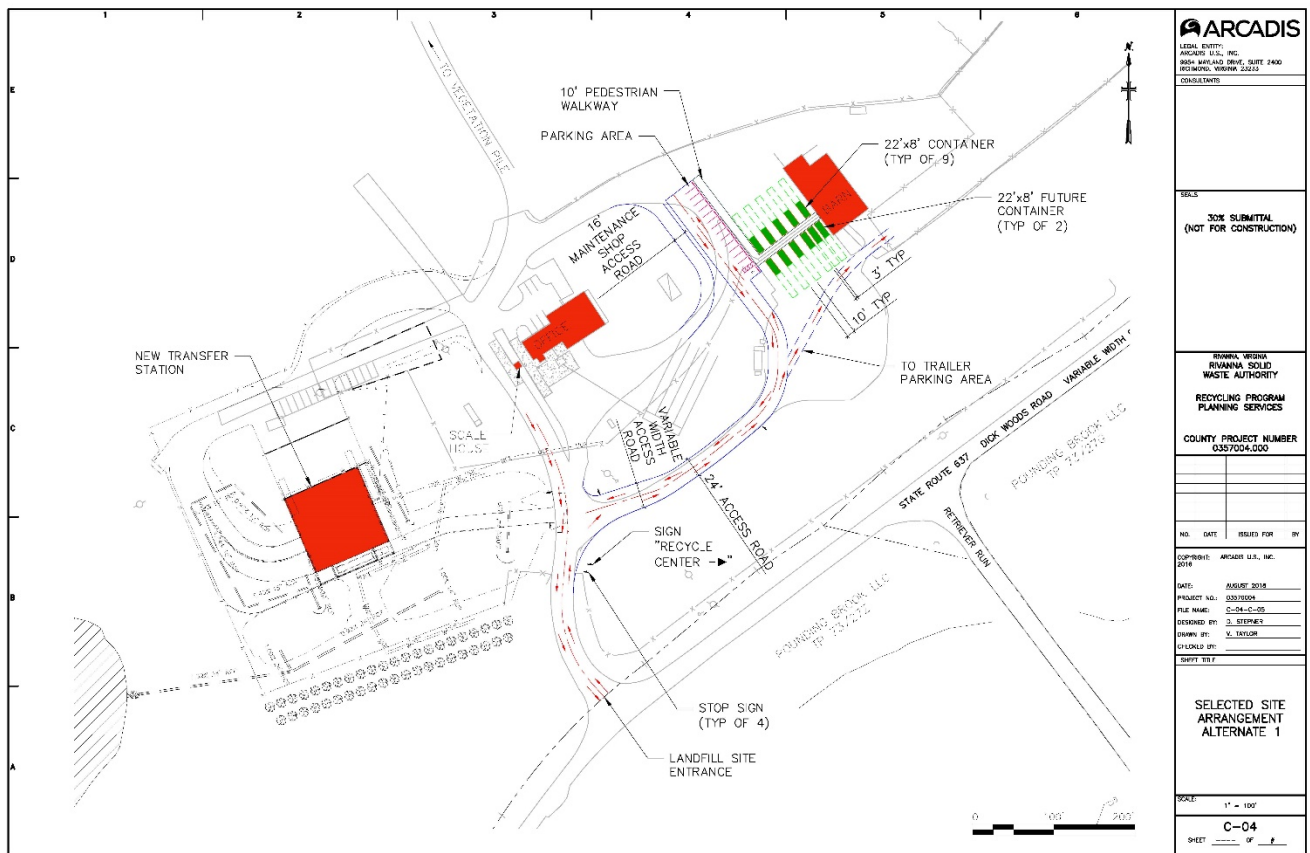
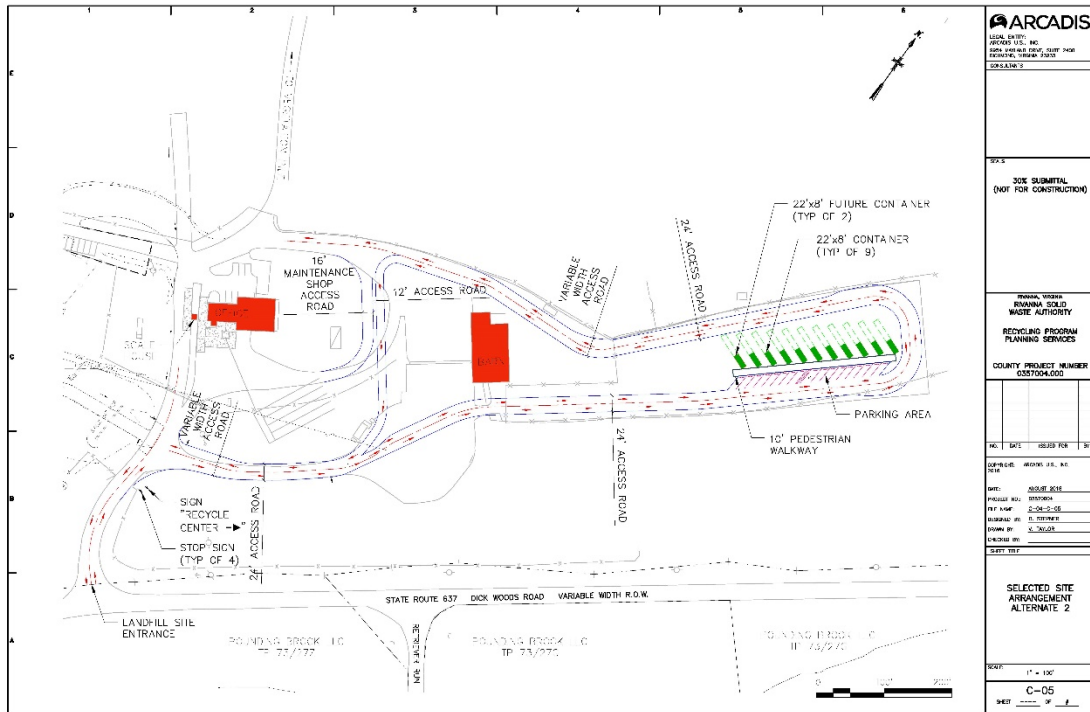


Figure 2. – Alternative 2 Convenience Center



Ivy MUC Convenience Center Alternatives

Presented by Phil McKalips
October 23, 2018



Alternative 1 – Old TS Location

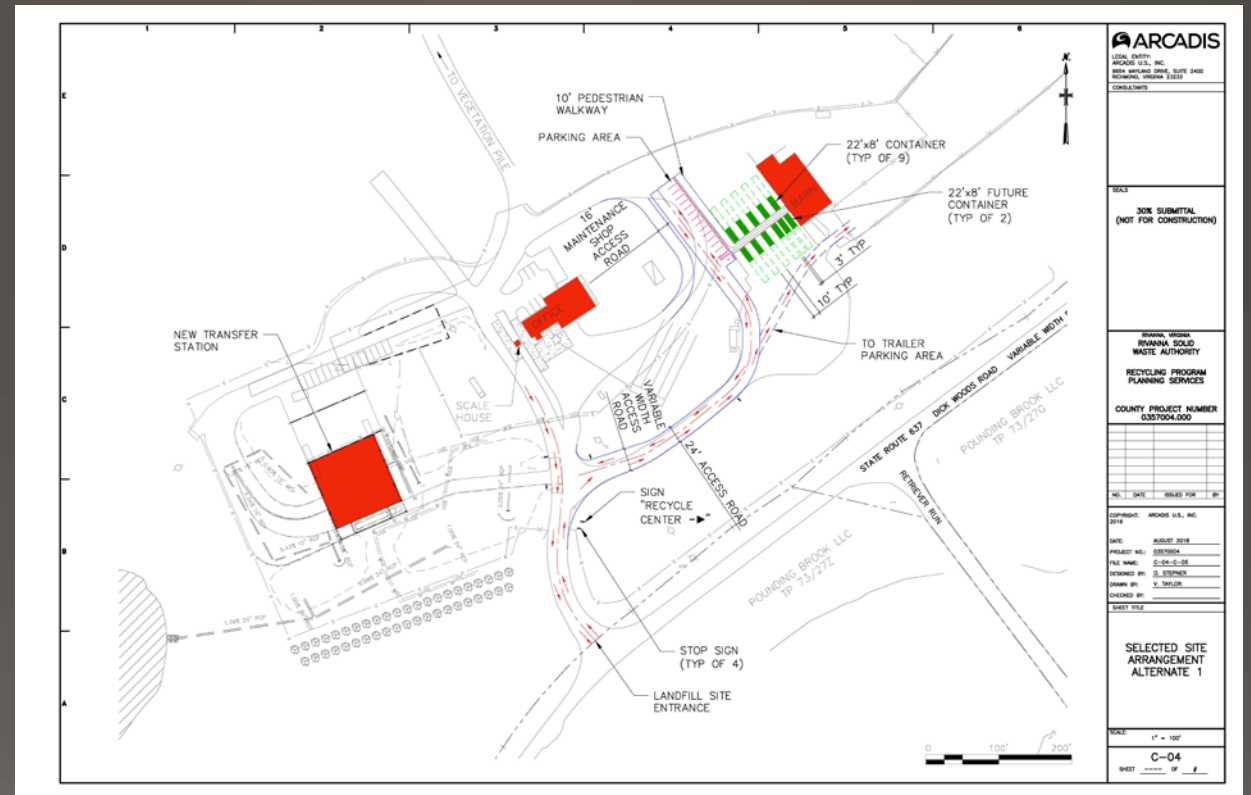
Pros:

- More compact, utilizes Old Transfer Station space.
- Does not interfere with Amnesty Day traffic.

Cons:

- Less space for expansion
- Design creates two-way traffic for customers

Cost: \$700k - \$ 1 M



Alternative 2 – Transfer Trailer Parking

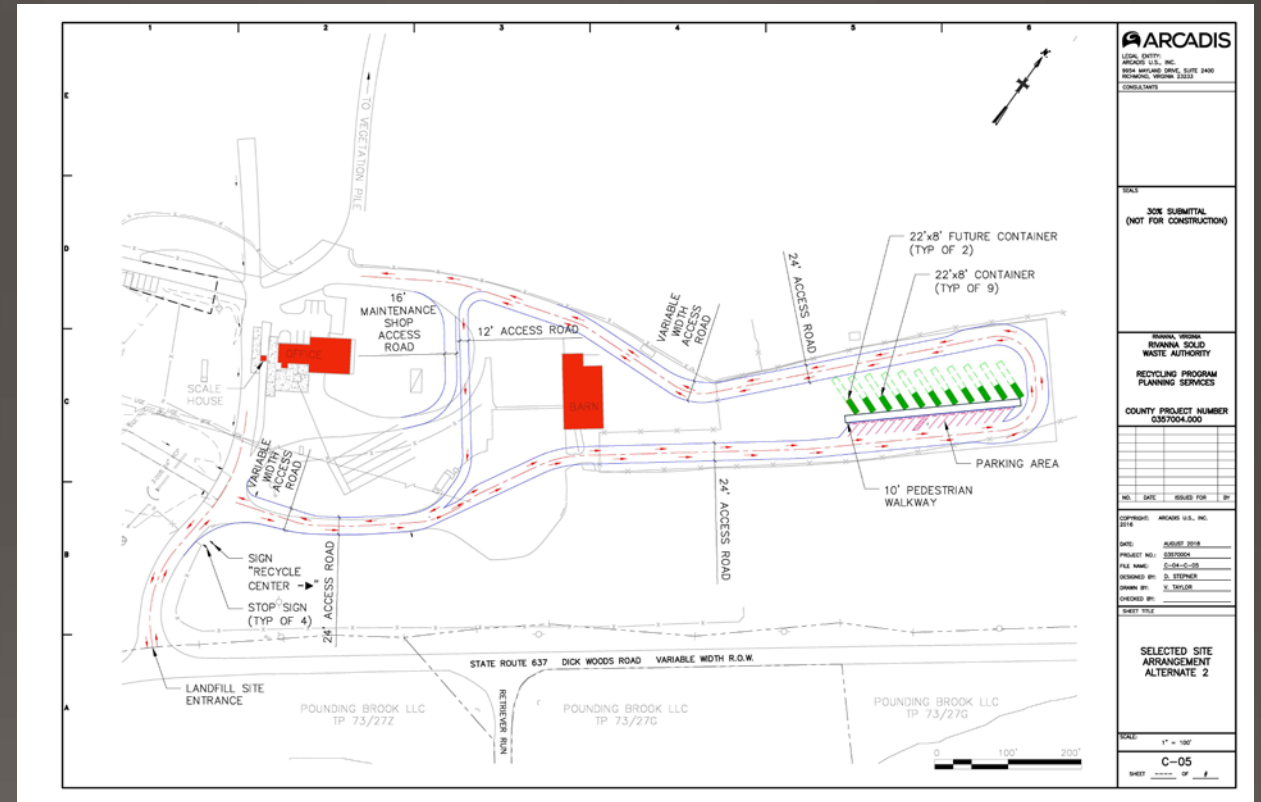
Pros:

- Room for expansion
- One-way traffic flow
- Provides more in-bound queuing if needed.

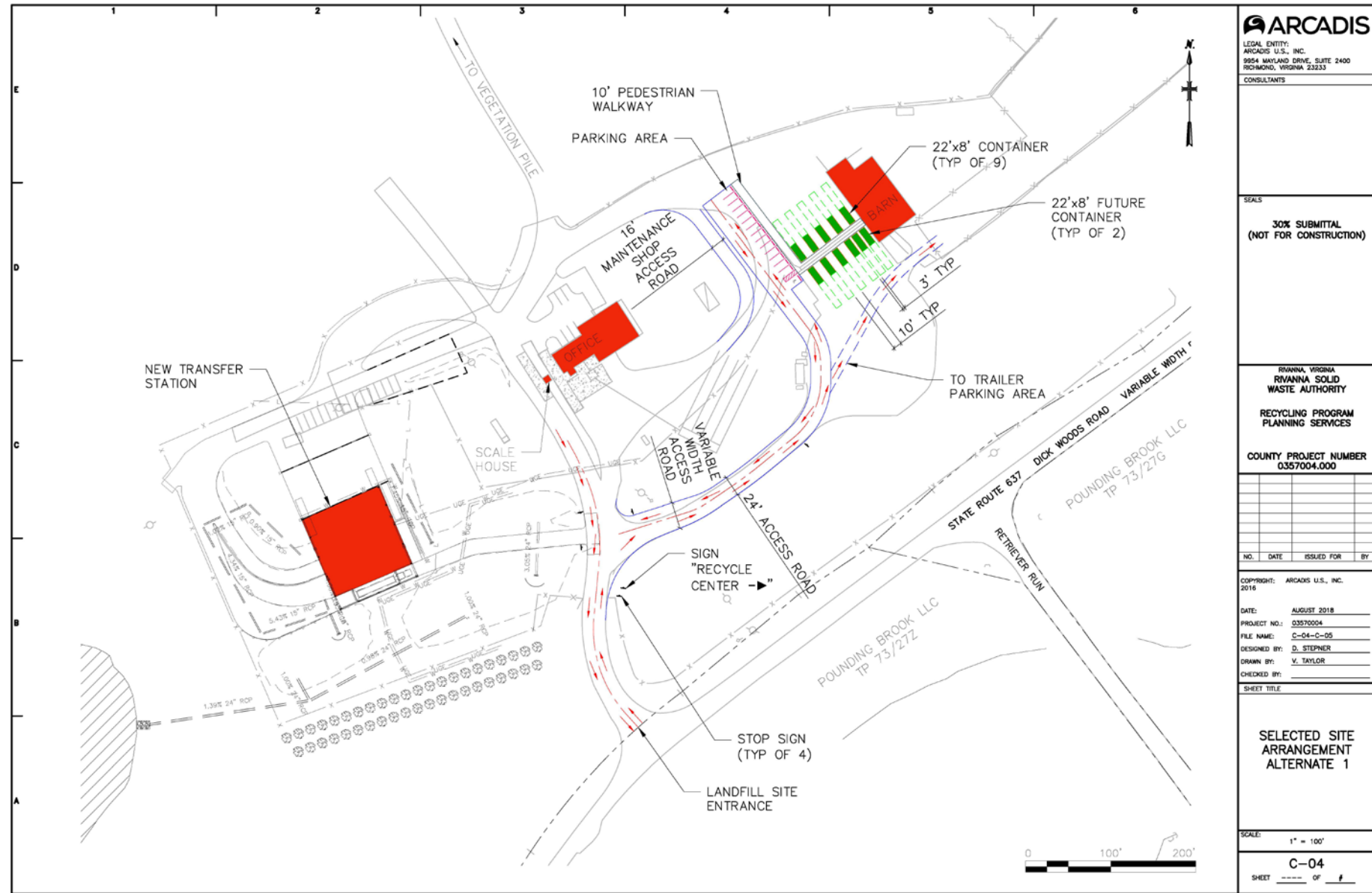
Cons:

- Creates more interaction between site vehicles and patrons
- Interferes with existing HHW and Amnesty traffic patterns

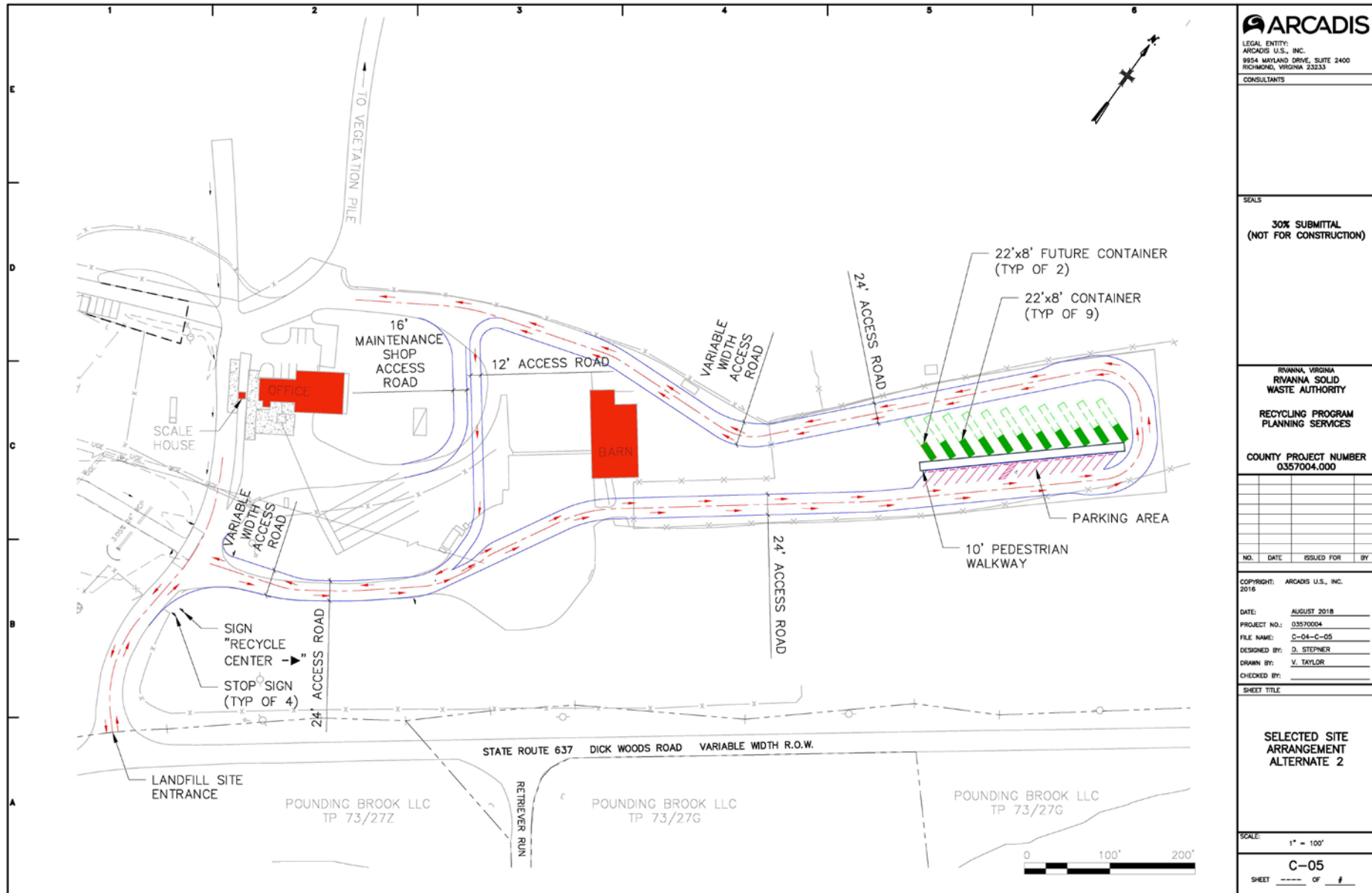
Cost: \$700k - \$ 1 M



Alternative 1



Alternative 2



Proposed Composting Area

