

OFFICE OF THE COUNTY ADMINISTRATOR

600 West Fourth Street
Davenport, Iowa 52801-1003

Office: (563) 326-8702
Fax: (563) 328-3285
www.scottcountyiowa.com



Item 02
07-14-15

DATE: July 9, 2015

TO: Board of Supervisors

FROM: Dee F. Bruemmer, County Administrator

RE: Presentation by Waste Commission of Scott County

The Waste Commission has been working on developing a single stream recycling facility for the region over the past few years. That study is complete and the Commission has approved the project. Director Kathy Morris will give the Board an overview of the project and schedule for implementation.

Historically, the County has been the Commission's bonding authority. The Waste Commission, a 28E agency, is made up of the County and all of the cities in the county. In 1995 when the landfill was developed and the material recovery facility was built, the County bonded the construction for these facilities. In fact, the last payment on that issuance was made in June of this year. The proposal request, as done in the last issuance, allows the Commission to enter into a financing agreement with the County to repay the bonds over the life of the debt. This agreement is basically a loan and the repayment schedule is set to pay the principal and interest on the bonds.

On the next Board agenda would be a reimbursement resolution which would allow the Commission and the County to expend monies for the project prior to the sale of the bonds. This resolution fulfills the IRS requirement that the monies spent prior to issuance can be part of the project costs. The actual bond issuance would be done after the bidding of the equipment and the building improvements so the issuance can match the actual costs of the project. The issuance is tentatively set for October.



Memorandum

Foth Infrastructure & Environment, LLC
8191 Birchwood Court, Suite L
Johnston, IA 50131
(515) 254-1393 • Fax: (515) 254-1642
www.foth.com

May 12, 2015

TO: Kathy Morris, Waste Commission of Scott County (Commission)

CC: Doug Cuthill, Foth Infrastructure & Environment (Foth)

FR: Jim Miles-Polka, Foth

RE: Waste Commission of Scott County – Scott Area Recycling Center
Projected Capital Costs for Single Stream Recycling Facility Modifications

This memo summarizes projections of capital costs for the modifications identified to convert the existing dual-stream Scott Area Recycling Center into a single-stream facility. The planned modifications have been developed through numerous program planning activities by the Commission, Foth and others. Concept layouts of the proposed facility modifications are shown in the enclosed Figure 1, dated May 12, 2015.

Professional Services for Design, Bid and Construction Phase Services

In anticipation of the implementation of a Commission single stream recycling program, Foth assisted the Commission in selecting a professional services team for facility design (site, building, processing/sorting equipment), development of construction documents, assistance with a public bid process, and assistance with administration of the construction contract.

The professional services will be delivered in two parallel paths: Site/Building Services and Processing/Sorting Equipment Services. This approach will allow efficient management and coordination of the two contracts (site/building and processing/sorting equipment) through efforts by the Commission and Foth. This separate procurement process has been used successfully on numerous similar projects.

Site/Building Services

Based on the proposals submitted, the team assembled for the project includes the following firms.

- Foth, Des Moines, Iowa: Project management and site design
- FEH Associates, Des Moines, Iowa: Architectural and structural design
- KJWW Engineering Consultants, Rock Island, Illinois: Mechanical and electrical
- Terracon, Bettendorf, Iowa: Quality control testing and special inspections

The total base cost for professional services for the Site/Building Services is \$334,000. Since this project involves remodeling and modifying an existing facility, the Commission will plan on reserving approximately 10% of the base cost, or \$33,000, as a contingency for unknown conditions. The total projected budget for Site/Building Services is \$367,000.

Processing/Sorting Equipment Services

The Processing/Sorting Equipment Services team includes qualified professionals from Foth for services including project management, development of a Request for Proposals for the design, manufacture and installation of the single stream processing/sorting equipment, assistance to the Commission for receiving and evaluating equipment proposals, construction phase services, and validation of equipment performance prior to facility start-up.

Foth will provide these services to the Commission for a cost of \$140,000. Since this project involves removal of existing equipment, installing new equipment in an existing building, and coordination with a new process of managing single stream material, the Commission will plan on reserving approximately 10% of the base cost, or \$14,000, as a contingency for unknown conditions. The total projected budget for Site/Building Services is \$154,000.

General Construction of the Facility Additions/Modifications

Foth has worked closely with the Commission during the planning process for modifying the existing dual-stream Scott Area Recycling Center into a single-stream recycling facility. During this process Foth has maintained an updated opinion of projected capital costs. Since the existing facility houses both the recycling and household hazardous material satellite receiving programs, the associated cost projections have been tracked separately for these two programs. The opinion of projected capital costs was updated in March 2015 and is summarized in the following table.

10 tph SS MRF MODIFICATIONS (NOT INCL. PROCESSING EQUIP.) REVISED LAYOUT WEST ADDITION & HHM CONSTRUCTION
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<i>Description</i>	<i>Costs</i>	
	<i>SS MRF</i>	<i>HHM</i>
General Conditions	231,100	39,800
Site Development	627,000	99,000
Concrete	531,600	47,200
Masonry	20,000	0
Metals	595,500	167,200
Woods, Lt Ga Mtl & Plastics	42,600	3,300
Thermal & Moisture Protection	18,500	8,200
Doors & Windows	63,400	12,100
Finishes	161,900	7,000
Specialties (includes Haz-Stor Bldg)	36,500	95,000
Mechanical		
(Plumbing , HVAC, Ctrls, Fire Suppr)	295,500	50,800
Electrical (Power, Lighting, Fire Alarm)	240,300	43,500
SUBTOTAL	\$2,863,900	\$573,100
Contingency (10%)	286,000	57,000
SUBTOTAL PROJECTED CONSTR COSTS	\$3,149,900	\$630,100
TOTAL SS MRF & HHM SITE/BLDG PROJECTED CONSTR COSTS		\$3,780,000

The projected construction costs assume 2015 dollars, a single prime general construction contract for the site and building (including both recycling and HHM portions), and the general extent of improvements in the conceptual layout shown in Figure 1, enclosed. The construction cost projection

shown is based on general knowledge of the construction market, but should not be considered a detailed analysis of local market conditions and general market volatility.

Manufacture and Installation of the Single Stream Processing/Sorting Equipment

Through the Commission process of evaluating a conversion to single-stream recycling collection and processing program the Commission has received quotations for processing/sorting equipment from numerous vendors. In addition, Foth has developed preliminary opinions of equipment costs for comparison purposes. During the planned equipment procurement process numerous vendors are anticipated to provide alternative layouts and specific technologies that will meet the constraints of the site/building modifications and also meet the Commission's material throughput requirements.

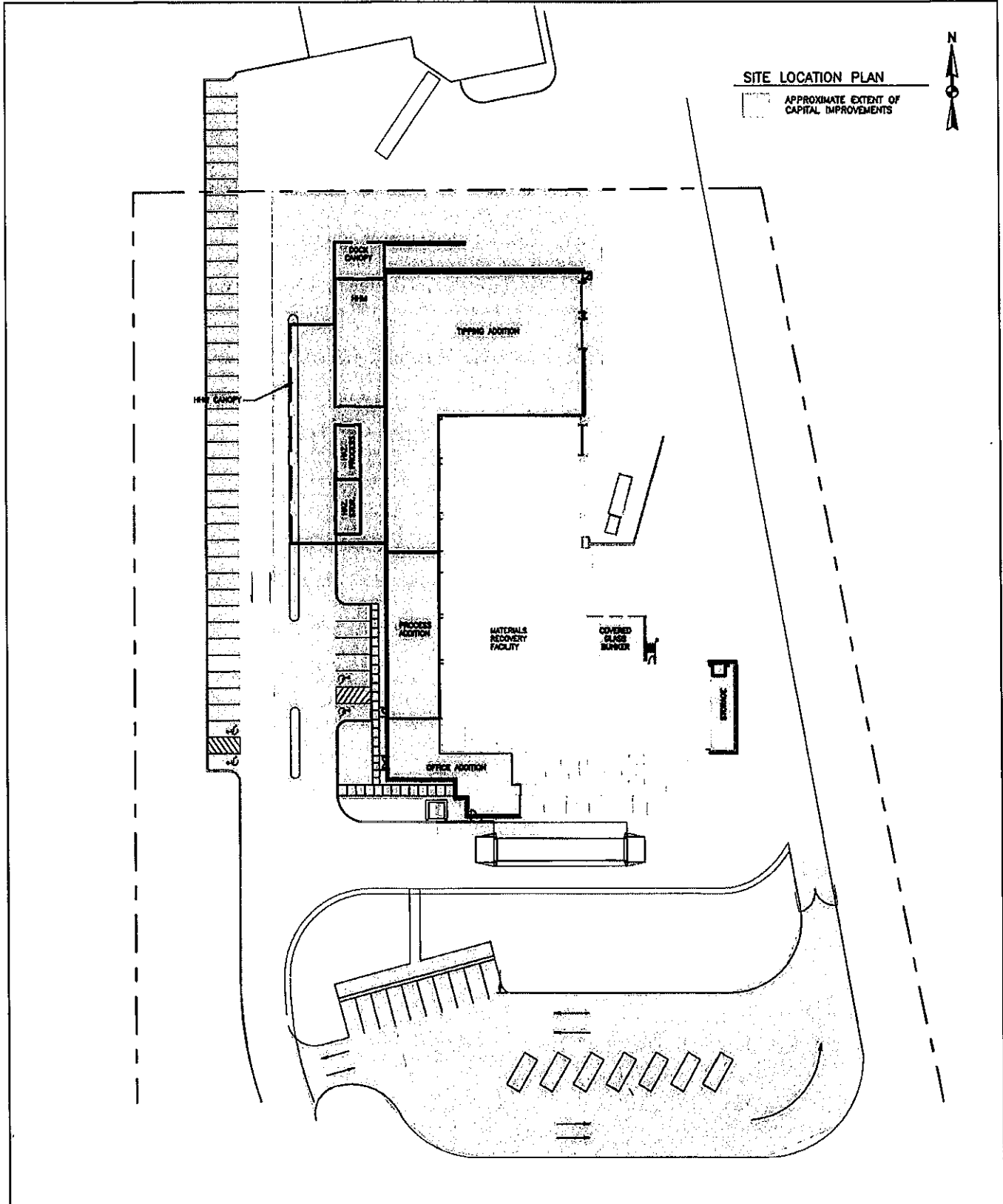
The following preliminary opinion of projected costs for processing/sorting equipment is based on an evaluation of the data assembled to date.

• Processing/sorting equipment:	\$1,470,000
• Fixed steel support systems:	\$ 575,000
• Controls, vendor engineering, shipping:	\$ 865,000
• Contingency (5%):	<u>\$ 145,000</u>
TOTAL:	\$3,055,000

Summary of Projected Capital Costs for Single Stream Recycling Facility Modifications

A summary follows of the projected capital costs for the modifications to the existing Scott Area Recycling Center for conversion to receive and process single stream material, including modifications to maintain the existing household hazardous material satellite receiving facility at this location. The projected costs shown are inclusive of a modest contingency, as outlined in the description of each cost item, intended to remain in reserve for market price volatility and unknown conditions that may be uncovered as part of the installation process.

• Site/building professional services:	\$ 367,000
• Processing/sorting equipment procurement:	\$ 154,000
• Site/building construction costs:	\$3,780,000
• Processing/sorting equipment:	<u>\$3,055,000</u>
TOTAL PROJECTED CAPITAL COST:	\$7,356,000



SITE LOCATION PLAN

APPROXIMATE EXTENT OF CAPITAL IMPROVEMENTS



Foth

FIGURE 1

**WASTE COMMISSION OF
SCOTT COUNTY
MATERIAL RECYCLING FACILITY**

Drawn By: DEC	Checked By: JEM	Project:12S044.03
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