



Metro South Station Workshop

Metro South Station Assessment Project

December 12, 2013



Agenda

- Purpose/Objective
- Introductions and Project Background
 - Project Need
 - Outreach and work completed to date
- Present facility concepts
- BREAK
- Discuss concepts
 - Discussion/brainstorm
 - Advantages/disadvantages
- Select options for further analysis
- Next steps (Follow-up Workshop)

Existing Facility & Operations

- Weigh in/out - scale plaza with four weigh scales
- MSW processing and storage
- Dry waste, yard debris, wood waste and residential organics
- Recoverables storage/sorting
- Outdoor recoverables storage
- HHW processing and storage
- Material reuse
- Recyclables drop boxes
- Trailer parking
- Haul scale
- Truck wash
- Maintenance

Existing Site

I-205



Scale
Plaza

Bays
3
and 4

Trailer
Parking

HHW

Bays
1
and 2

Truck
Wash

Main
Entrance

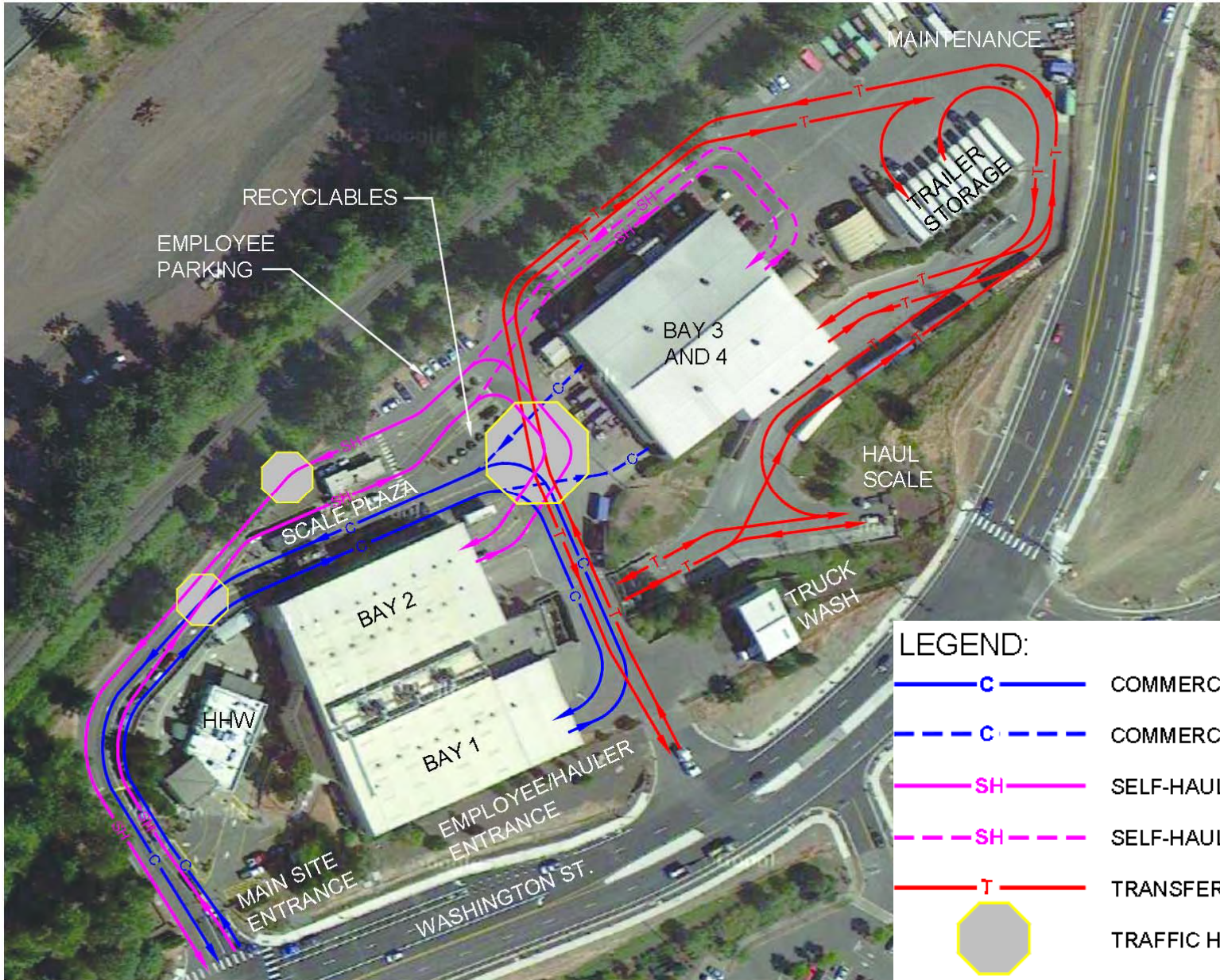
Washington St.









Site Challenges

- Traffic congestion and flow
- Inefficient material handling
- Inadequate space for separation of materials

Site Traffic



LEGEND:

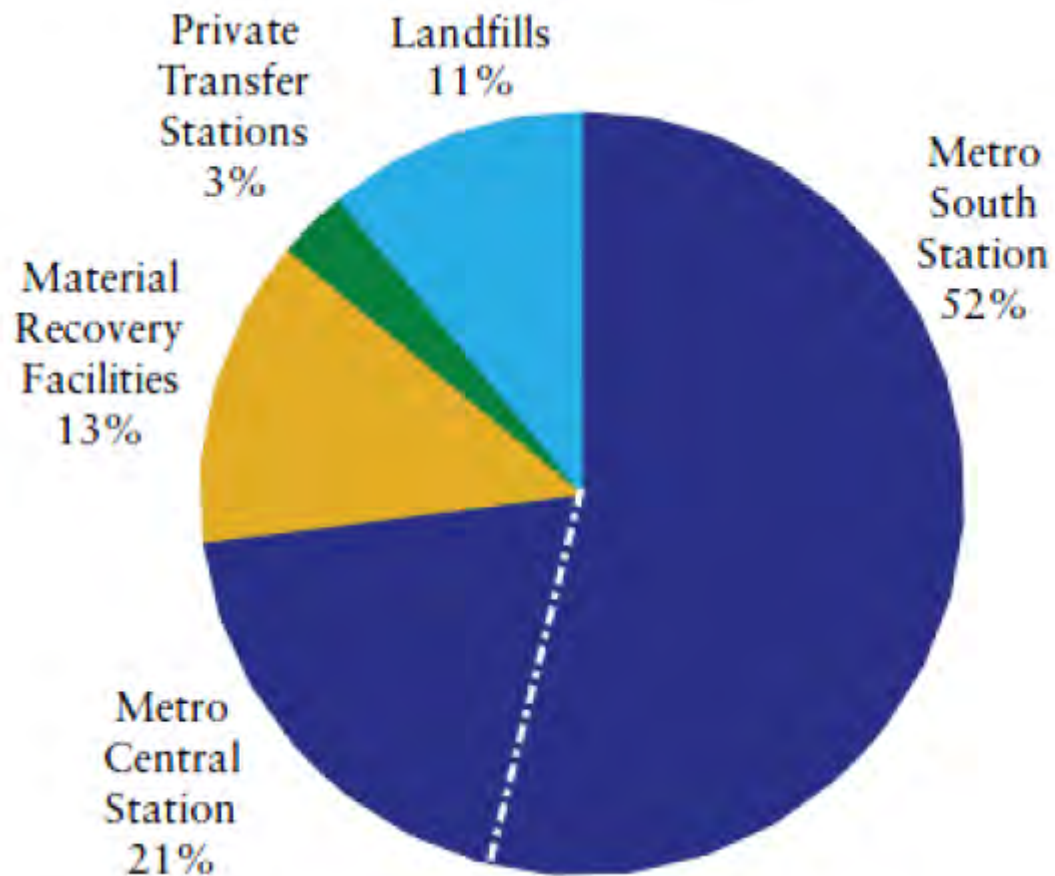
-  COMMERCIAL WET TRAFFIC
-  COMMERCIAL DRY TRAFFIC
-  SELF-HAUL MSW TRAFFIC
-  SELF-HAUL ORGANICS/C&D TRAFFIC
-  TRANSFER TRAILER TRAFFIC
-  TRAFFIC HAZARD AREA

Material Processing



Project Background

2009 Regional Public Self-Haul Load Drop-off Location



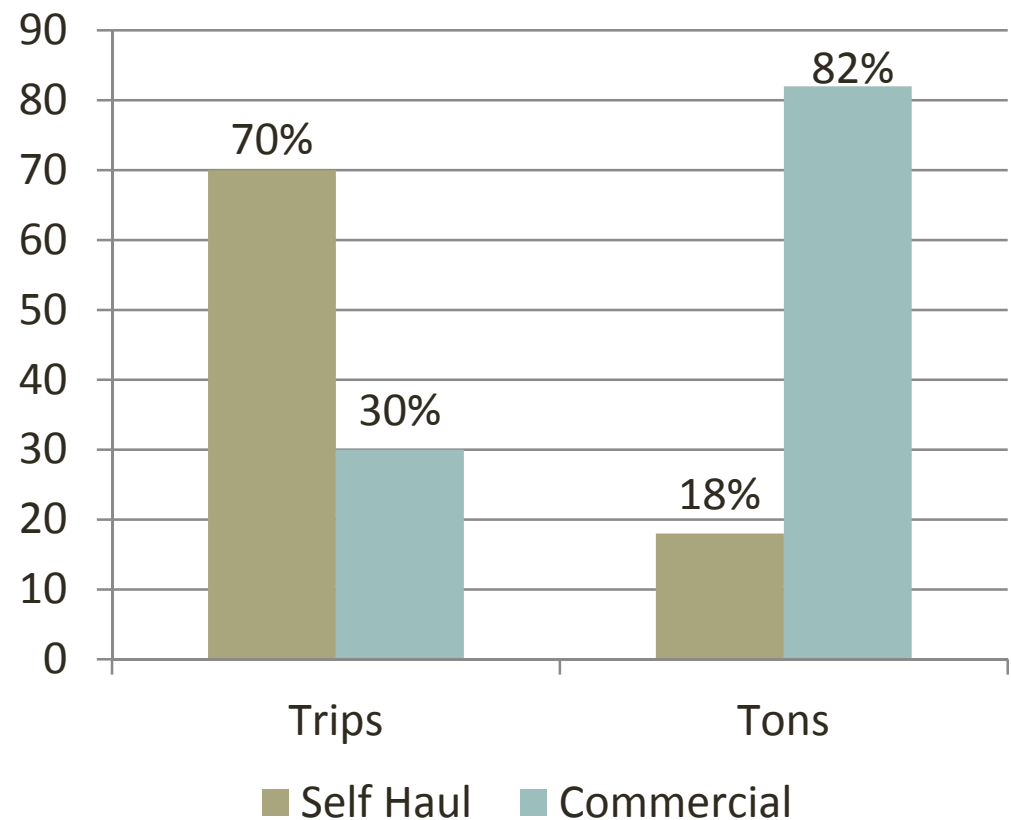
Source: *Impact of Self-Haul Customers on the Regional Solid Waste System*; Metro, January 2009.

Customer Base

- Approx 240,000 tons per year of material received at MSS

MSS TRIPS	Weekday	Weekend
Self Haul	321	447
Commercial	189	44
TOTAL	511	491

Breakdown of MSS Customers



Project Background

Stakeholder Outreach

Outreach method to 6 primary stakeholder groups:

Stakeholders	Outreach Method				
	Phone interviews	Individual meetings	Group meetings	On-site surveys	Email surveys
Commercial haulers	X	X	X		X
Self-haul customers	X			X	X
Local governments	X	X	X		X
Internal Metro staff		X	X		
Operations staff (Allied and Metro)			X		X
Other (Miscellaneous)	X		X		X

Project Background

Stakeholder Outreach

Station Survey Results:

- **91%** of commercial customers said that MSS was “more convenient location than the other transfer stations”
- **75%** of self haul customers said that MSS was “more convenient location than the other transfer stations”
- **81%** of commercial customers were “very satisfied” with visit to MSS
- **88%** of self haul customers were “very satisfied” with visit to MSS

Key Messaging from Customers:

- **Appreciate diversity of services**
- **Appreciate customer service**
- **Appreciate convenience**

Project Background

Stakeholder Outreach

Metro Staff Workshop

- August 9, 2013
- 10 participants
- Electronic poll to rank facility “Needs”
- *“How should we serve the customers in the south Metro region?”*

Stakeholder Survey

- 27 participants
- Online survey
 - Ranked needs by priority: Low – Medium - High

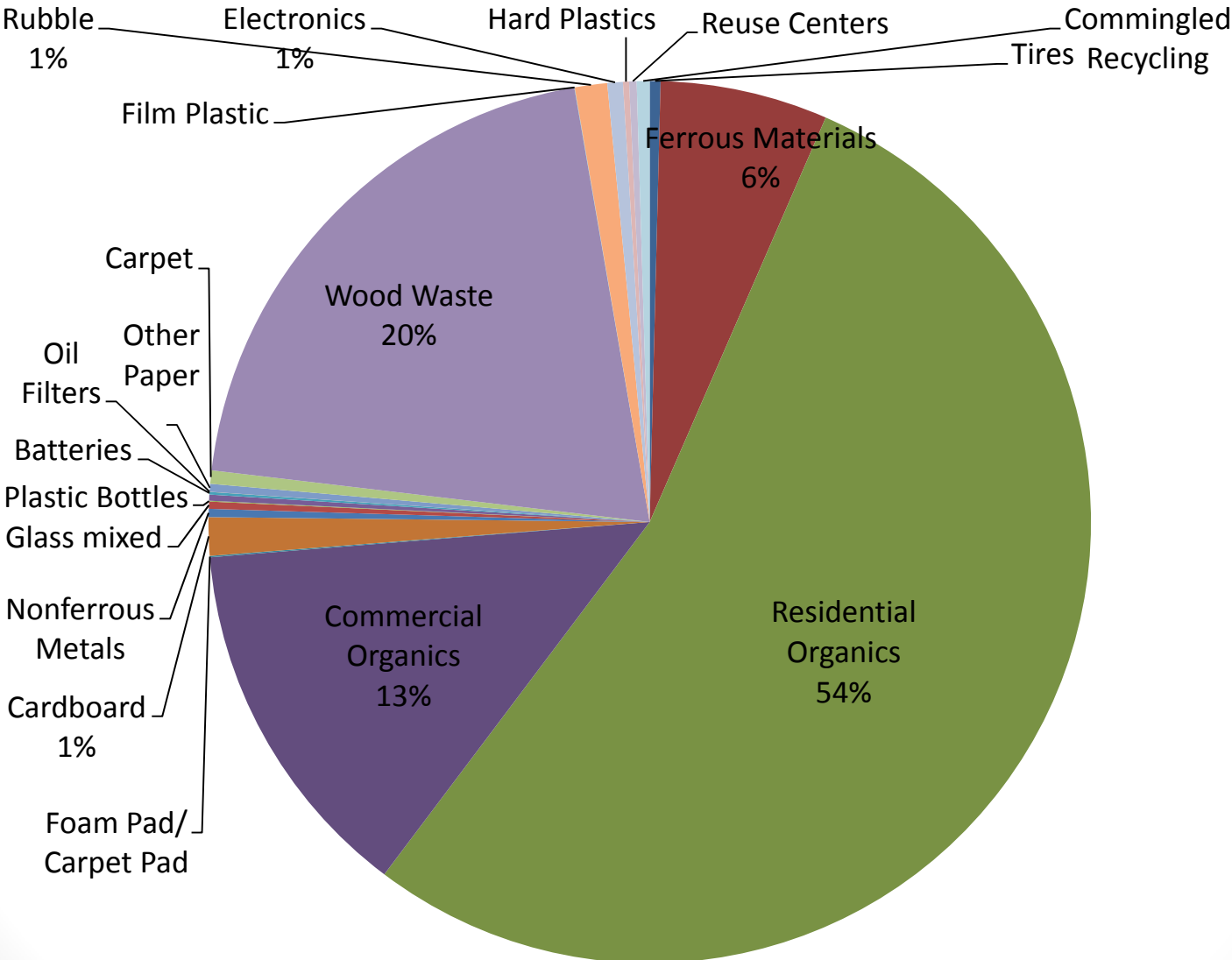
Prioritized “Needs”



Top Ranked Needs from Stakeholder Survey

RANK	PRIORITIZED LIST OF FACILITY NEEDS
1	Household Hazardous Waste ★
2	Commercial Organics
3	Residential Organics and Yard Debris
4	Self-haul Waste
5	Space for Sorting Recyclables & Wood Waste ★
6	Commercial Waste Deliveries ★
7	Provide Customer Education
8	Minimize Queue Times and Provide Wayfinding
9	Source Separated Recyclables

2018 Projected MSS Diverted Materials



MSS Historical and Projected Tons

Year	2012	2014	2015	2016	2017	2018	2019
Wet Waste	128,671	123,505	126,155	128,244	131,781	134,256	133,875
Loose DB	19,745	27,530	29,235	30,585	31,446	31,744	31,520
Self Haul Customers	56,212	64,274	68,283	71,405	73,381	74,091	73,613
Residential Organics		34,298	37,888	39,756	44,265	49,238	50,688
Commercial Organics		7,520	9,397	10,407	10,872	11,352	12,688
Total	204,628	249,492	259,100	264,702	273,787	281,269	281,778

Space Requirements

Rank	Need	Space Needed for Unloading, Processing and Storage	Space Available for Unloading, Processing and Storage
1	Household Hazardous Waste	Current HHW building with some additional storage outside building and drive	HHW building – 5,400 SF (including canopy) Remote storage – approx. 1,000 SF
2	Receive Commercial Organics	2,000 - 3,600 SF	Bay 3 – shares with the 21,500 SF with Need 6
3	Receive Residential Organics and Yard Waste	6,100 - 10,300 SF	Bay 3 - shares with the 21,500 SF with Need 6
4	Receive Self Haul Waste	Need 11 stalls in Bay 2 or 10,100 SF for unloading and 4,000 SF for material storage on floor, and pit for material storage of 150 tons requires 1,400 SF of pit	Bay 2 has 10,500 SF for unloading and floor storage, only space for 7 vehicles to unload at once, so queue of 4 vehicles. Pit shares with Need 5
5	Receive Commercial Waste Deliveries	Need 4 stalls in Bay 1 4,200 SF for unloading and pit for material storage of 560 tons or 5,000 SF of pit	Bay 1 has 10,800 SF for unloading. Pit has 4,800 SF or 550 tons
Legend:			
Processes assumed to occur in Bays #1 or #2			
Processes assumed to occur in Bays #3 and #4			

Space Requirements

Rank	Need	Space Needed for Unloading, Processing and Storage	Space Available for Unloading, Processing and Storage
6	Recover Recyclables, & Divertible Materials Sorting	To unload all SH vehicles in Bays 3 and 4 requires 19 stalls, or a 266 ft long building. Assume 8 stalls in Bays 3 & 4 and 40% of SH materials, rest to Bay 2. For Loose DB need 2 stalls 11,000-17,100 SF for material receipt & storage plus 6,400 SF – 7,600 SF for simple processing line requires 17,400 - 24,700 SF	Building is 175 ft long which limits unloading capacity. 27,000 SF in building, less 3,500 SF for access aisle through building and 2,000 SF for loadout ports for 21,500 SF
7	Provide Customer Education	No additional space needs	Throughout, viewing signs – no activity area
8	Minimize Queue Times & Wayfinding	No additional space needs	Added signage, provide more unloading bays for SH customers
9	Source Separated Recyclables	1,200 SF	Inside –into bins or bunkers Outside – into bins 1,200 SF
	Total Space	53,400 SF - 66,500 SF Needed	48,800 SF Available, need an additional 4,600 to 17,700 SF

Legend:

Processes assumed to occur in Bays #1 or #2

Processes assumed to occur in Bays #3 and #4

Facility Options

Facility Approaches

- **Operational Modifications Only**
 - No changes to facility infrastructure
- **Facility Retrofit**
 - Onsite modifications only
- **Facility Retrofit with Offsite Improvements**
 - Options include transferring some operations offsite

OPTION 1 – Add Organics Storage



OPTION 2 – Add Processing Line



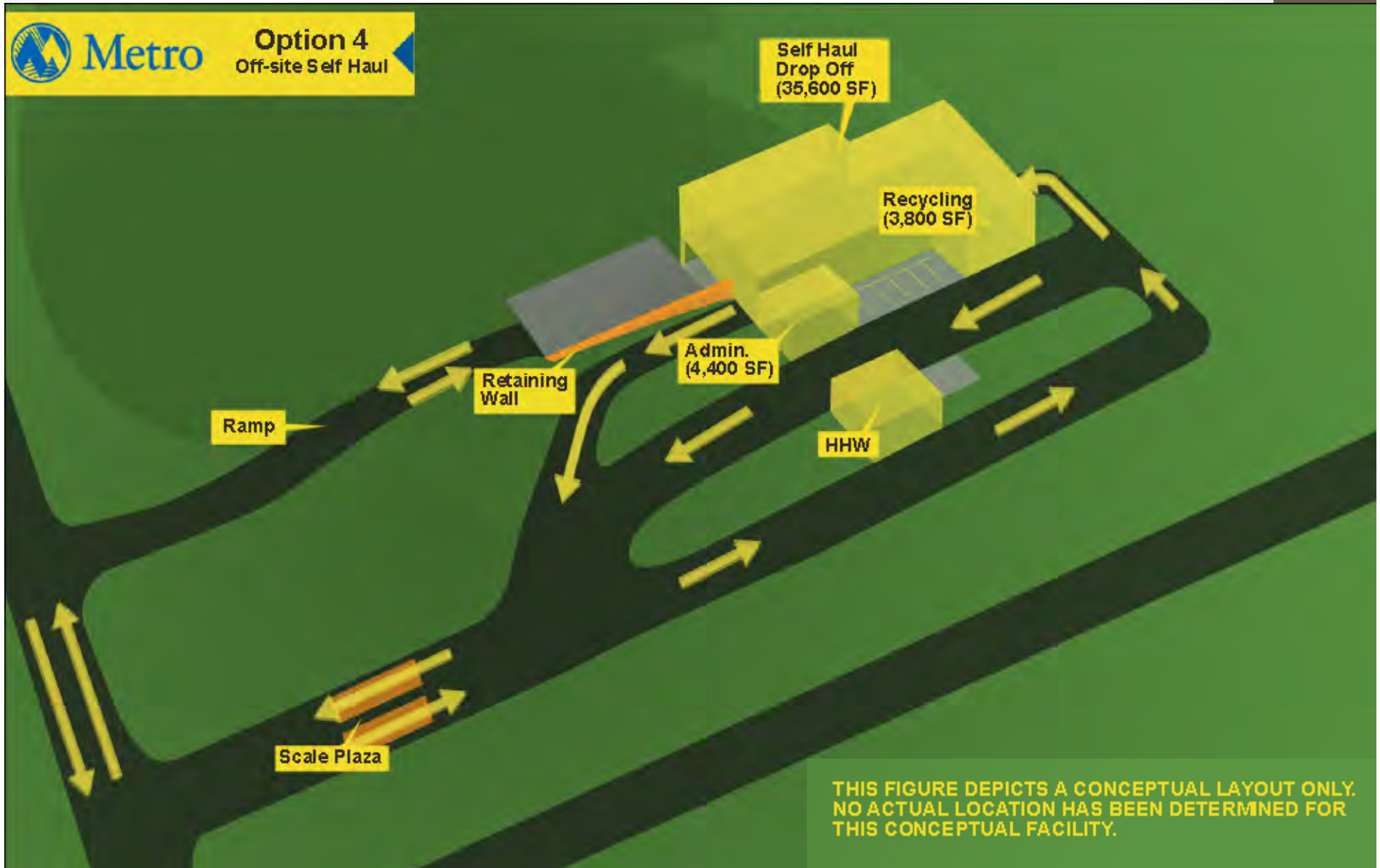
OPTION 3 – Full Buildout



OPTION 4 – Offsite Self Haul



Option 4
Off-site Self Haul



BREAK

Discussion

- Questions
- Comments
- Likes
- Dislikes
- Suggestions
- Confirm options to move forward

Next Steps

- HDR to develop more detailed options based on narrowed list of concepts. Information to include:
 - Conceptual costs
 - Conceptual floor plans
 - Conceptual site plans
 - Operational and customer benefits and drawbacks
- Follow-up Workshop – TBD February 2014
 - Develop final recommended option

Thank You!

Questions?

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