

1. Agenda

Documents:

[2021-10-27 ENVIRONMENT, HEALTH AND SUSTAINABILITY COMMISSION -
PUBLIC AGENDA-1667.PDF](#)

2. Meeting Materials

Documents:

[2021-10-27 ENVIRONMENT, HEALTH AND SUSTAINABILITY COMMISSION -
FULL AGENDA-1667.PDF](#)

AGENDA

Regular Meeting of the
Nichols Hills Environment, Health and Sustainability Commission
Wednesday, October 27, 2021 at 8:30 AM
City Hall, 6407 Avondale Drive
Nichols Hills, OK 73116

If special assistance is needed for this meeting by any person wishing to attend, please contact the City Clerk's office no later than 48 hours prior to the meeting, and such assistance will be provided.

Official action may be taken by the Environment, Health and Sustainability Commission only on items that appear on this Agenda. The Environment, Health and Sustainability Commission may dispose of the business set out on this Agenda by accepting, approving, adopting, rejecting, amending, or postponing action as to each item, as determined by the Environment, Health and Sustainability Commission.

1. Call to Order
2. Roll Call
3. Minutes
 - a. EHS Minutes - September 8, 2021
4. Consideration of approval, acceptance, rejection, amendment, and/or postponement of the following:
 - a. Butterfly garden presentation and proposal.
 - b. Discussion regarding the September 25th Household Item, Electronic, and Hazard Waste Disposal Event.
 - c. Presentation from Walt Gibson regarding water quality in Nichols Hills and reducing pollutants in the stormwater runoff.
 - d. Urban Sustainability discussion.
 - e. Schedule of 2022 Regular Nichols Hills Environmental, Health, and Sustainability Commission
5. Adjournment

I certify that the forgoing was filed in the Office of the City Clerk at 4:26 PM on the 22nd day of October, 2021 and posted in prominent view on the window at City Hall, 6407 Avondale Drive, at 4:45 PM

on the 22nd day of October, 2021; posted to the City of Nichols Hills website at <http://www.nicholshills.net> at 5:00 PM on the 22nd day of October, 2021; and transmitted by email at 5:00 PM on the 22nd day of October, 2021 to those persons who have requested to be included on such notices pursuant to the Open Meeting Act and to those who have requested such notice.



City Clerk
City of Nichols Hills, Oklahoma

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City Clerk
City of Nichols Hills, Oklahoma

MINUTES

Special Meeting of the
Nichols Hills Environment, Health and Sustainability Commission
Wednesday, September 8, 2021 at 8:30 AM
City Hall, 6407 Avondale Drive
Nichols Hills, OK 73116

**Original agenda filed in the Office of the City Clerk at 11:00 AM
on the 3rd day of September, 2021.**

1. Call to Order
2. Roll Call

Attendee Name	Title	Status	Arrived
Nancy Herzel		Present	
Carleen Burger		Present	
Tyfanna Johnson		Present	
Allison Petersen		Absent	
Caroline Patton		Present	
Andrew Thomas		Absent	

3. Minutes
 - a. EHS Minutes - March 26, 2019
 - b. EHS Minutes - April 26, 2019

MOTION: Burger moved to approve the March 26, 2019 and April 26, 2019 minutes as presented. Patton seconded the motion.

RESULT:	APPROVED [UNANIMOUS]
MOVER:	Carleen Burger
SECONDER:	Caroline Patton
AYES:	Herzel, Burger, Johnson, Patton
ABSENT:	Petersen, Thomas

4. Discussion, Consideration, and Possible Action:
 - a. Presentation from Stephanie Jordan with Nature Conservancy regarding pollinators including Monarch Butterflies.

Ms. Stephanie Jordan with Nature Conservancy gave a presentation on pollinating gardens to promote the growth of

Monarch Butterflies. Ms. Jordan discussed various Oklahoma native plants that attract the butterflies and would do well in the City's parks. She also suggested that people research if the plants have had any pesticides applied to them, as this could harm the butterflies. She referenced okiesformonarchs.org for regional plant lists and encouraged everyone to plant gardens.

b. Urban Sustainability discussion.

Mr. Shane Pate, City Manager, discussed with the Commissioners the task of helping the City create a Sustainability Plan. Professor John Wood, University of Central Oklahoma, reached out to the City and proposed his class of graduate and undergraduate students do research on various plans in other communities to find one that would be suitable for the City of Nichols Hills. Mr. Pate encouraged the members to review Oklahoma City's plan at Adapt OKC, on Oklahoma City's website, to get familiar with different areas of their plan. Chairman Nancy Herzel stated the Commissioners will come back in the October or November meeting with initial steps or thoughts they will take in helping create this plan.

Mr. Randy Lawrence, Public Works Director, announced Recycling Day will be held on September 25th from 9:00 to 12:00. There will be three waste trucks that will be collecting hazardous waste materials and electronic waste, and paper shredding located at the north side of the Nichols Hills Plaza.

5. Adjournment

MOTION: There being no further business, Patton moved to adjourn the meeting. Burger seconded the motion.

RESULT:	APPROVED [UNANIMOUS]
MOVER:	Caroline Patton
SECONDER:	Carleen Burger
AYES:	Herzel, Burger, Johnson, Patton
ABSENT:	Petersen, Thomas

Chairman
City of Nichols Hills, Oklahoma

City Manager
City of Nichols Hills, Oklahoma

City Clerk
City of Nichols Hills, Oklahoma

Design Notes



Proposal by Sweetleaf

Butterfly Garden
Nichols Hills| OKC

Current state of site - Oct 2021

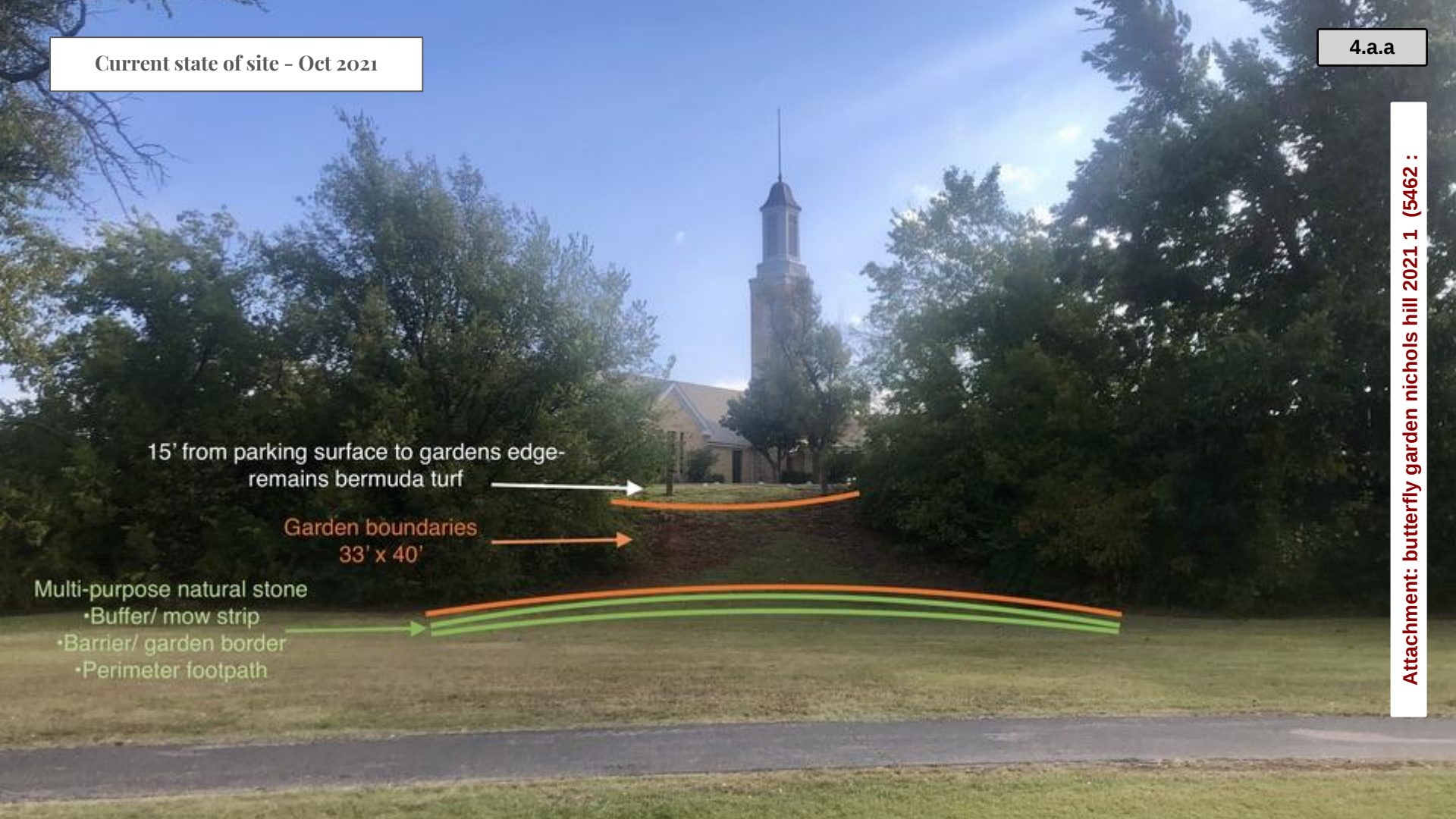
4.a.a

Attachment: butterfly garden nichols hill 2021 1 (5462 :

15' from parking surface to gardens edge-
remains bermuda turf

Garden boundaries
33' x 40'

Multi-purpose natural stone
•Buffer/ mow strip
•Barrier/ garden border
•Perimeter footpath





4.a.a

Projection examples - Aug/Sep 2022



Attachment: butterfly garden nichols hill 2021 1 (5462 :

Existing Tree Beds

Light maintenance to the two existing tree-beds, as they flank our Butterfly garden, includes but is not limited to:

- clearing out Bermuda
- leaving existing monkey grass
- light pruning of trees and shrubs
- removal of debris



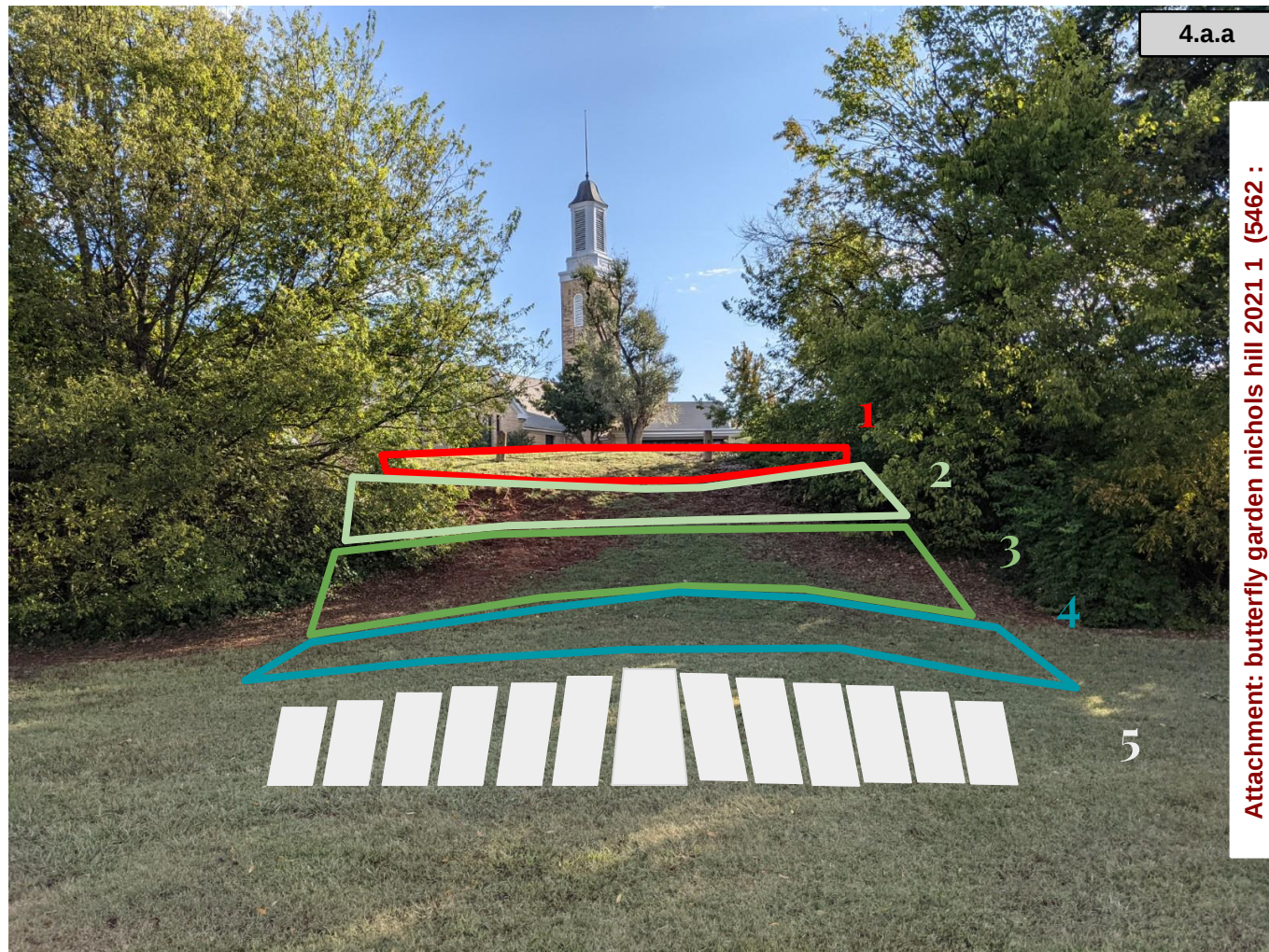
4.a.a

Attachment: butterfly garden nichols hill 2021 1 (5462 :

BUTTERFLY GARDEN

- remove existing turf
- amend soil
- backfill with compost prior to planting

1. **Parking Lot**
2. **Top Embankment**
3. **Middle Embankment**
4. **Bottom Embankment**
5. **Multi-Purpose Buffer Zone**



4.a.a

Attachment: butterfly garden nichols hill 2021 1 (5462 :

PARKING LOT MOW STRIP

15ft mowing strip from edge of
parking lot to top of
embankment



4.a.a

Attachment: butterfly garden nichols hill 2021 1 (5462 :

TOP EMBANKMENT

(480 sq ft/480 plants)

- 12ft zone from top of slope to mid-way point down embankment
- create backdrop of various erosion stabilizing grasses including:
 - ~ Schizachyrium scoparium
 - ~ Mexican Feather Grass
 - ~ Purple Tears
 - ~ Northwind



4.a.a

Attachment: butterfly garden nichols hill 2021 1 (5462 :

TOP EMBANKMENT

A variety of grasses

- Low maintenance (water, labour)
- Structural design element creates some formality (ie. garden looks more maintained with less labor)
- Habitats for pollinators
- Erosion control on embankment



Schizachyrium scoparium

© Hoffman Nursery, Inc.



Northwind

©Hoffman Nurseries

4.a.a



Fennel



Mexican Feather Grass

© Hoffman Nursery, Inc.



Purple Tears

© Piet Oudolf

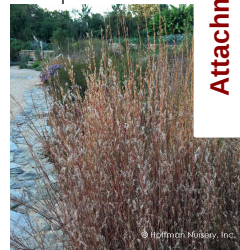
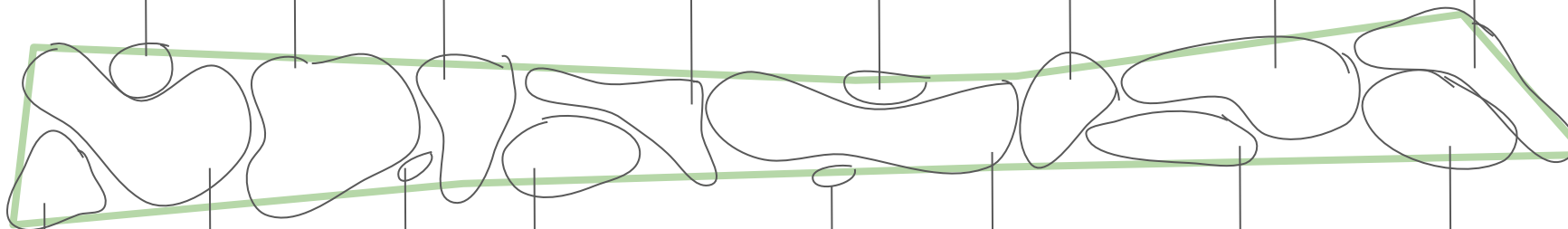


Rock pools for birds and pollinators

Attachment: butterfly garden nichols hill 2021 1 (5462 :



Design sample
(not final)



4.a.a

Attachment: butterfly garden nichols hill 2021 1 (5462 :

MIDDLE EMBANKMENT

- Pockets of milkweed varieties
Straight species interspersed
- Carex as filler



4.a.a

Attachment: butterfly garden nichols hill 2021 1 (5462 :



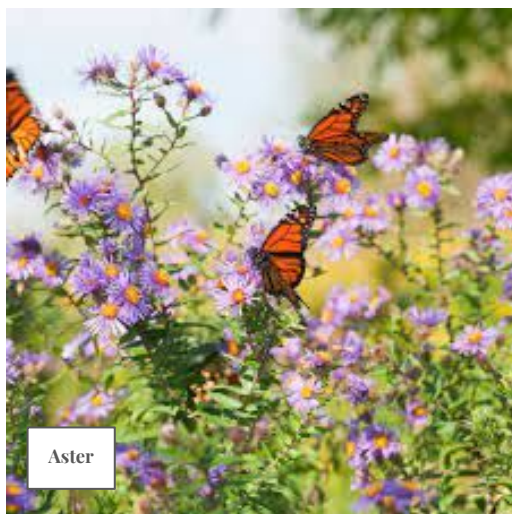
Butterfly Weed



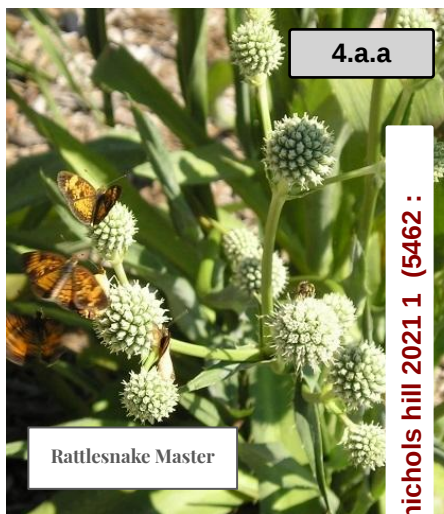
Swamp Milkweed



Common Milkweed



Aster



Rattlesnake Master



Purple Milkweed



Showy Milkweed



Aquatic Milkweed



Poke Milkweed



Spider Milkweed



Prairie Milkweed



Prairie Fire Carex



Divulsa Carex



Whorled Milkweed



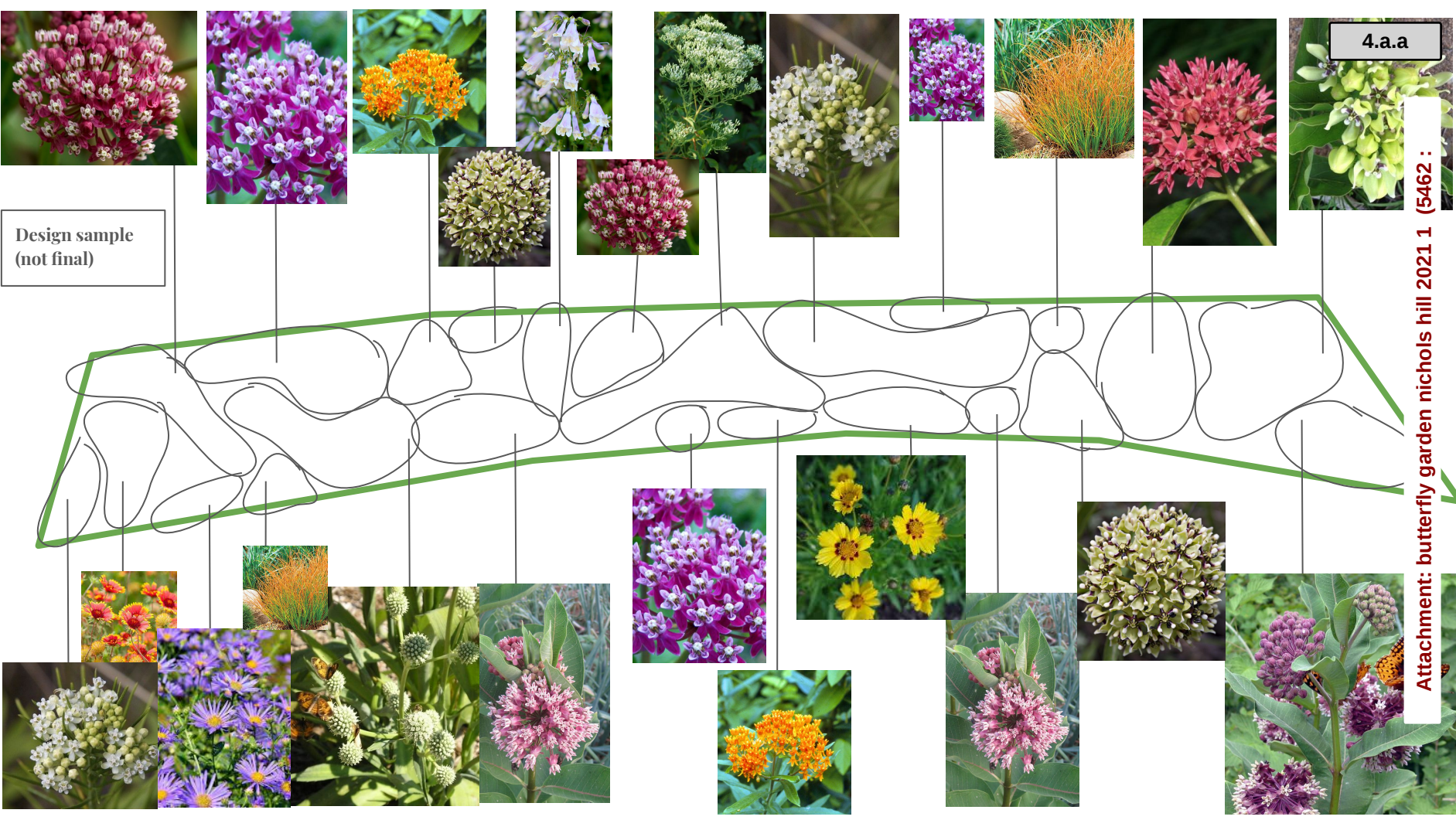
Narrowleaf Milkweed



Green Milkweed

4.a.a

Attachment: butterfly garden nichols hill 2021 1 (5462 :



Design sample
(not final)

4.a.a

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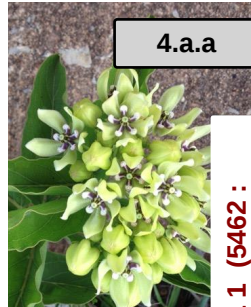
BOTTOM EMBANKMENT

- shorter, 2ft tall pollinators (including Purple Prairie clover)
- Carex as filler

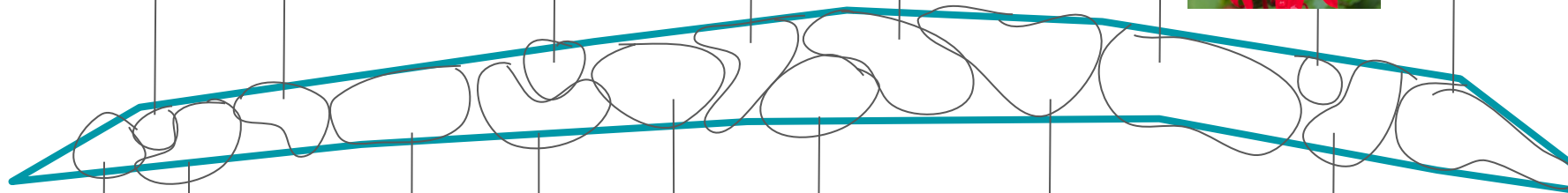


4.a.a

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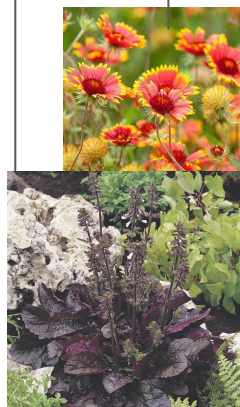


4.a.a



Attachment: butterfly garden nichols hill 2021 1 (5462 :)

Design
sample
(not final)



MULTI-PURPOSE BUFFER ZONE

Example of chopped stone
buffer/mow strip/ perimeter
footpath/ garden border
except ours will be set closer
OC 3"-5" joints



4.a.a

Attachment: butterfly garden nichols hill 2021 1 (5462 :

City of Nichols Hills Collection Event Report

September 25, 2021

9AM to 12PM on North-side in NH Plaza

68 residents participated

THANK YOU:

Public Works

Director Randy Lawrence for organizing, oversight & leadership

Walt Gibson

Quincy Colbert

Dillon Thompson

Paul McKee

Police:

Lt. Puckett

Firemen:

Brant Chill

Trent Black

Wayne Knight

Colton Sanderson

EHSC:

Nancy Herzel

Carleen Burger

Caroline Patton

ELECTRONICS:

UNITED ELECTRONIC RECYCLING received in right at 2k lbs. This material will be separated into the different commodities such as plastics and metals and be sent back out to be turned into new items. See pages 2 & 3 for detail.

Jason Keller

United Electronic Recycling

Mobile Shred IT - Paper Shredding

Mobile: 405-213-3431

Address: 505 Airline Dr, Coppell, TX 75019

Website: www.uerteam.com

Email: jkeller@unitedelectronicrecycling.com

"Be consistently self-aware and humble of our environment while keeping a clear vision for our future." -

Jason Keller



Customer Name City of Nichols Hills
 Customer Advocate JASON KELLER
 Job Number CNH-01092521
 Pickup Date 9/25/2021 12:00:00
 Primary Sort Date 09/25/2021



Materials Detail

Commodity	Pieces	Gross Weight	Tare Weight	Net Weight
AC ADAPTERS - with Wire - FG	1	28	0	28
AUDIO EQUIPMENT - FG	12	144	0	144
CABLE BOX - FG	1	8	0	8
CARDBOARD - FG	1	9	0	9
CELL PHONE with BATTERY - FG	26	8	0	8
CRT MONITORS - FG	1	45	0	45
CRT TELEVISIONS	7	664	40	624
DESKTOPS - CORE 1 AND ABOVE - FG	2	14	0	14
DESKTOPS - CORE2 and Below - FG	5	118	0	118
DOCKING STATIONS - FG	1	2	0	2
HARD DRIVES COMPLETE - FG	1	1	0	1
LAPTOPS - CORE 1 AND ABOVE - FG	2	11	0	11
LAPTOPS - CORE2 AND BELOW - FG	11	59	0	59
LCD MONITORS - CRACKED - FG	4	48	0	48
LCD TELEVISION - FG	8	341	0	341
MIXED ELECTRONICS - LOW GRADE - FG	1	314	0	314
MOTORS - FG	1	52	0	52
NETWORK EQUIPMENT - Plastic - FG	1	11	0	11
PACKAGING MATERIAL - FG	1	3	0	3
PRINTERS - FG	7	84	0	84
REMOTES - FG	1	10	0	10
TABLETS - FG	8	8	0	8
TONER - FG	1	2	0	2
VCR/DVD PLAYER - FG	2	30	0	30
WIRE - Mixed - FG	1	39	0	39
WOOD - Pallets	1	195	0	195
Totals	108	2248	40	2,208

Certificate of Recycling



United Electronic Recycling
855-837-8326 | uerteam.com

Recycling Today for a Better Tomorrow



This document certifies that United Electronic Recycling has completed the Recycling Process in accordance with Department of Defense specifications and in compliance with all Local, State, and Federal EPA guidelines. We follow the R2 Recycling Reuse and then disposal as well as ISO 14001, and OSHAS 18001 Requirements.

City of Nichols Hills

Att: Randy Lawrence

Date Received: 09/25/2021

E-Mail rlawrence@nicholshills.net

Address:

6492 Avondale Dr.

Nichols Hills, OK 73116

Job Number: CNH-01092521

Customer ID: CNH-01

2,208

lbs. Electronics Recycling

Customer Signature

United Electronic Recycling Signature

PAPER to SHRED:

ABSOLUTE DATA collected 350 pounds of paper to shred, where it was shredded at the event. The paper is taken to their facility until they have a Georgia Pacific semi-load full of 2K pound of paper bales.

The semi-truck takes the paper to the Georgia Pacific recycling facility in Muskogee OK where all of it is recycled into their products, for example, paper, toilet paper, paper towels, etc. All re-used.

ABSOLUTE DATA, Bryan Reid, 405.321.7226, Norman OK, www.shredok.com



RECYCLING:

FERTILE GROUND collected approx. 4 cubic yards of cardboard, 1/2 cubic yard of glass, and 1/2 cubic yard of commingled recycling.

We take recycling very seriously and do everything in our power to ensure that the material that we collect actually gets recycled. Many of the big-name recycling companies also own landfills. Since they make money either way, a lot of what is taken to them does not actually get recycled. Because of this, we are committed to taking all of the recyclables that we collect to recycling facilities that do not also own landfills. This gives them a financial incentive to actually recycle everything possible so that they don't have to pay a landfill to take things to.

We used to take our recycling to Batliner who is still a good option that we trust for recycling. There has been misinformation from big recycling hauling companies that used to take their glass to Batliner. For the record, Batliner does still recycle glass. However, when glass is collected together with other recyclables, the broken pieces get mixed up with small pieces of plastic and paper, making them difficult and expensive to sort and clean.

Smurfit Kappa recycling center who currently handles the commingled recycling from Fertile Ground, does not accept glass.

- Mixed Paper is baled at their facility then goes to their Media mill in Forney TX where it is turned into a top liner for boxes that have printable media on them and
- OCC (cardboard) goes to their Fiber Mill in Forney TX and is made into liner board, the center part of a box.

(Then both are sent to their many box plants in Mexico, Ft Worth TX, Phoenix AZ, and Orange County CA).

- Aluminum goes to Quick Service Steel in OKC, OK,
- Steel Cans are going to Amarillo Recycling in Amarillo TX
- Plastics are going to two locations one is AP & J Recycling in Fort Worth TX, and a facility in MO that is turning it into Pallets and fencing/ decking products
- Trash or out throws are taken to the southeast landfill

Our team sought out and found a solution to the glass problem. We now offer a separate glass recycling pick up service. All of the glass that we collect goes straight to Dlubak Glass Company, a local glass recycler based in Okmulgee, OK. There they turn it into glass cullet which is then sold for the production of new glass products. By collecting glass separately and sending it to be processed here in

production of new glass products. By collecting glass separately and sending it to be processed here in Oklahoma we are reducing the energy necessary to sort and clean it as well as reducing the emissions of trucking the glass to other states for processing.



Courtney Hurst
405-633-0264
www.fertilegroundok.coop



MIDWEST CITY HAZARDOUS WASTE:

Pages 6 & 7 show the hazardous waste collected by Midwest City. Of note: 10.6 gallons of oil-based paint was combined for free re-use and good cans of aerosols were collected for re-use. 57 of the 68 residents had hazardous waste. 57 of the 68 residents had hazardous waste.

MWC

September 25th, 2021 - City of Nichols Hills Mobile Collection Event Invoice

Disposal	Lbs. Collected	Lbs. Disposed	Lbs. Reused
Latex <i>3,32 bbl</i>	2195.6	2195.6	0.0
Antifreeze	105.0	68.0	37.0
Flammable Liquid	188.4	124.0	64.4
Flammable Solid	82.4	82.4	0.0
Posions	497.5	204.9	292.6
Oil Based Paint <i>1.84 bbl</i>	710.2	635.8 <i>1.65 bbl</i>	<u>74.4</u>
Oxidizers	13.8	7.0	6.8
Corrosives	307.6	242.4	65.2
Aerosols	127.8	46.2	<u>81.6</u>
Waste Oil	53.0	53.0	0.0
Alkaline Batteries	33.6	33.6	0.0
Propane Tanks	6.6	6.6	0.0
Fluoroscent Bulbs	4.0	4.0	0.0
Lead Acid Batteries	181.4	181.4	0.0
Totals	4506.9	3884.9	622.0

*All sent to recycling**10.65 gallons reuse (given away)**(5.15 gallons)*

Number of residents

57

*MWC - City of
Robert Bell*

Invoice Amount

\$5,130.00

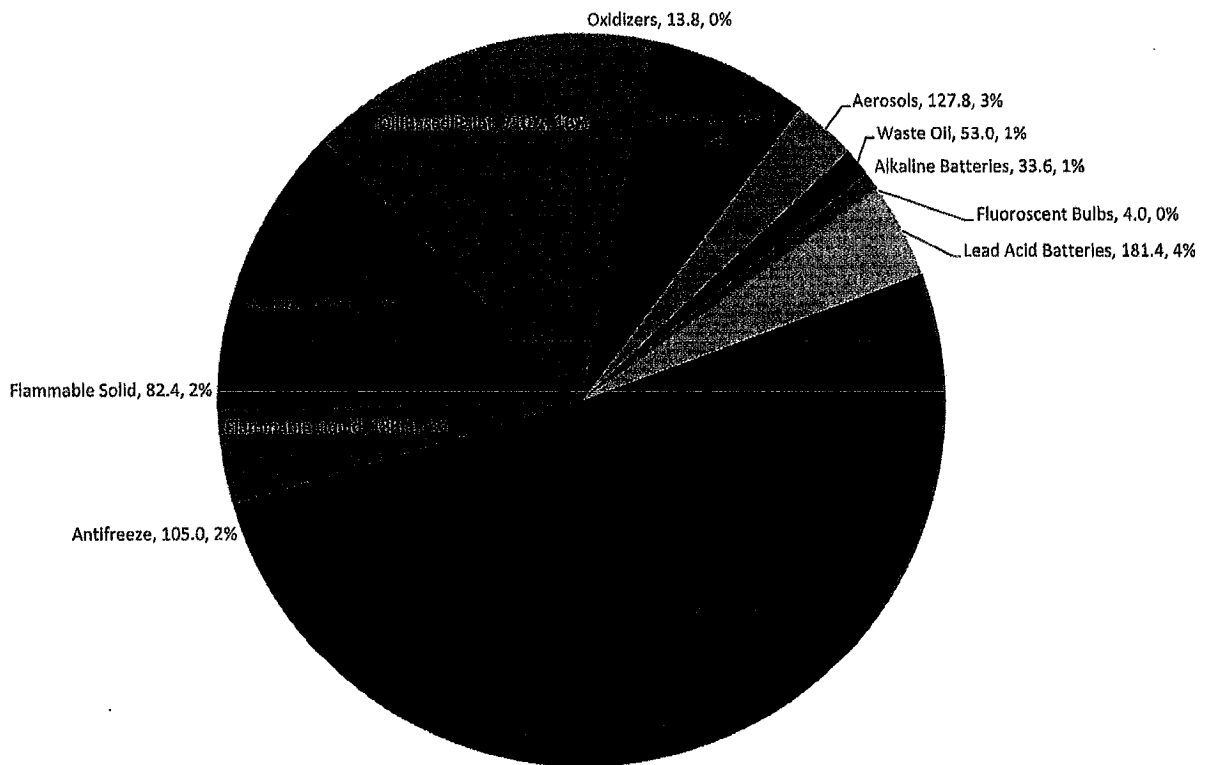
MWC 739.106

Cost per resident

\$90.00

MWC

September 25th, 2021 - Nichols Hills HHW MCE Waste Breakdown





Schedule of Regular Meetings of the Nichols Hills Environmental, Health and Sustainability Commission in 2022

All meetings of the Environmental, Health and Sustainability Commission ("EHS") are scheduled to take place on the 4th Wednesday of the month at 8:30 a.m. in the City Council Chambers, City Hall, 6407 Avondale Dr., Nichols Hills, OK.

Meeting Date of:

January 26, 2022

February 23, 2022

March 23, 2022

April 27, 2022

May 25, 2022

June 22, 2022

July 27, 2022

August 24, 2022

September 28, 2022

October 26, 2022

November 23, 2022

December 2022 – no meeting scheduled

Name: Amanda Copeland

Title: City Clerk

Address: 6407 Avondale Drive
Nichols Hills, OK 73116

Phone: (405) 843-6637

Filed in the office of the Municipal Clerk on _____ at _____ PM

Signed: _____
City Clerk/Deputy City Clerk