



NOTICE OF A SPECIAL MEETING
Brenham Community Development Corporation
Thursday, November 17, 2022 @ 7:30 a.m.
City Hall - 2nd Floor Conference Room
200 W. Vulcan St.
Brenham, Texas

1. Call Meeting to Order

WORK SESSION

2. Discussion and Update on Improvements to the Hohlt Park Nature Trail

REGULAR SESSION

3. Discuss and Possibly Act Upon Funding, Including But Not Limited To Available Sources of Funding, for Improvements to the Hohlt Park Nature Trail and Authorize the President to Execute any Necessary Documentation

Adjourn

CERTIFICATION

I certify that a copy of the agenda of items to be considered by the Brenham Community Development Corporation (BCDC) on Thursday, November 17, 2022 was posted to the City Hall bulletin board at 200 W. Vulcan St., Brenham, Texas on Thursday, November 10, 2022 at 4:30 p.m.

Jeana Bellinger, TRMC, CMC

*City Secretary/Director of Administrative Services
BCDC Secretary*

Disability Access Statement: This meeting is wheelchair accessible. The accessible entrance is located at the Vulcan Street entrance to the City Administration Building. Accessible parking spaces are located adjoining the entrance. Auxiliary aids and services are available upon request (interpreters for the deaf must be requested twenty-four (24) hours before the meeting) by calling (979) 337-7567 for assistance.

I certify that this notice and agenda of items to be considered by the Brenham Community Development Corporation (BCDC) was removed by me from the City Hall bulletin board on _____ at _____.

Signature



Memorandum

To: BCDC Board Members
CC: Carolyn Miller, Jeana Bellinger
From: Dane Rau, Public Works Director
Date: November 10, 2022
Re: Discussion Regarding Hohlt Park Nature Trail Bids

BCDC Board Members

On October 21, 2022, City Staff along with Alan King from AKLA Architects opened bids for the Hohlt Park Nature Trail Enhancements. This project stems from 2019 when we received a grant from Texas Parks and Wildlife for \$66,400. At that time BCDC also dedicated \$40,000 toward funding the project. As time went on, COVID hit the workforce, and delays were noticed on the State's end regarding giving the City a notice to proceed due to all agencies involved. In late 2021, we finally received the notice to proceed from TP&W with original funds. Due to inflation already set in, I spoke with Carolyn Miller about the uncertainty of funding this project based off of 2019 funding levels. It was decided to allocate an addition \$100,000 to the project during the 2022-23 BCDC funding cycle. This would allow us to complete the project as it was designed and get a finished project.

We would also have a total of \$206,400 for all work involved. Both the City and AKLA architects believed that this would be enough based on the designed work to complete the project. When you deduct AKLA Architect fees off of the total costs for design, bidding, project oversight we were left with \$192,500 for construction.

On bid opening day we received two bids for this project with the lowest bid coming in at \$291,517.60 by Collier Construction and the other bid being \$391,997 by Dudley Construction. We now had a dilemma once again. We basically have 3 options.

Option #1- Look at allocating fund balance reserves to complete the project as designed and move forward with accepting Collier's bid at \$291,517.60. This would mean allocating an additional \$99,017.60 to complete the project as designed.

Option #2- Look at “value engineering” by reducing some quantities related to benches, signs, changing from engineered wood timbers to treated wood on the boardwalk and decreasing some plant quantities and sizes. This would decrease the project by \$24,124 respectively and we would still need to use \$74,893.60 of fund balance reserves. We have discussed this with Alan King and Collier and both feel that we can complete the project with the same intent and not diminish the project by looking at some “value engineering” and quantity deductions.

Option #3- Reject bids and speak with TP&W about that decision. At this time this option is not preferred as we would like to get this project completed and finalize the agreement with TP&W.

Based on the current financials and with projects that were awarded by BCDC in 2022-23, projected fund balance reserves are currently at \$680,802. We would like BCDC’s direction on how to move forward.

Once direction is given, we can place this item on a future Council agenda for bid award.

Bid Tabulation

Hohti Park Nature Trail Bid Sheet
10/21/2022

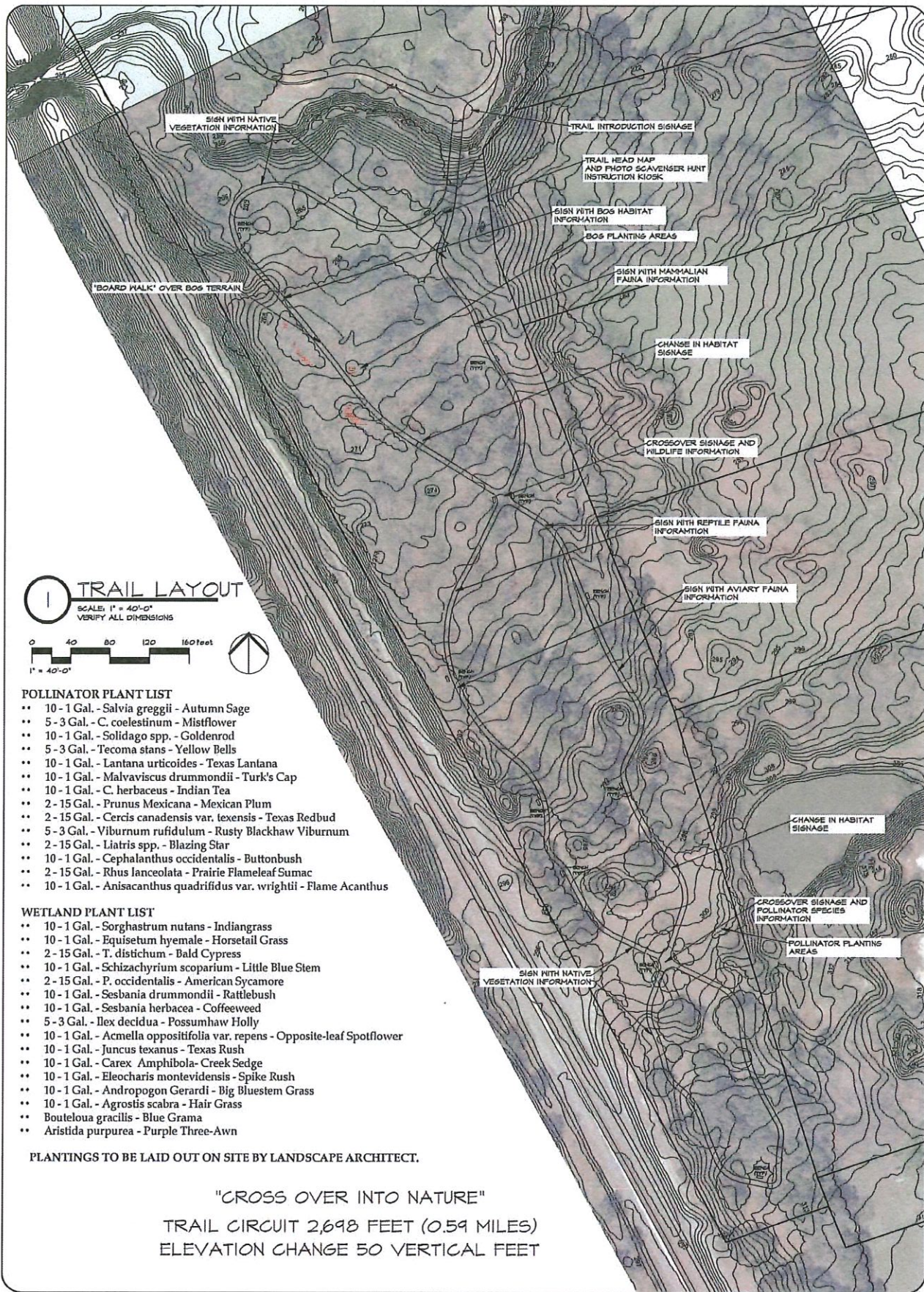
Crossover Park Estimate										Dudley		Collier		VE	
	Qty	Unit	Per	Extended	2022	Qty	unit	Extended	Qty	unit	Extended	Qty	unit	Extended	VE
A	1	Day	\$ 6,000.00	\$ 6,000.00	\$ 6,000.00	1	\$ 32,000.00	\$ 32,000.00	1	\$ 11,245.00	\$ 11,245.00	1	\$ 11,245.00	\$ 11,245.00	
B	1000	sf	\$ 80.00	\$ 80,000.00	\$ 80,000.00	1000	\$ 90.00	\$ 90,000.00	1000	\$ 77.50	\$ 77,500.00	1000	\$ 77.50	\$ 77,500.00	\$ 11,814
C	2000	lf	\$ 7.00	\$ 14,000.00	\$ 55,042.22	2000	\$ 10.00	\$ 20,000.00	1570	\$ 7.00	\$ 10,990.00	1570	\$ 7.00	\$ 10,990.00	
	Flex	87.39	yds	\$ 153.00	\$ 13,370.50	175	\$ 153.00	\$ 26,775.00	84	\$ 242.00	\$ 20,328.00	84	\$ 242.00	\$ 20,328.00	
	Granite	66.2	yds	\$ 325.00	\$ 21,516.20	100	\$ 325.00	\$ 32,500.00	65	\$ 370.00	\$ 24,055.00	65	\$ 370.00	\$ 24,055.00	
D	13.44	tons	\$ 458.00	\$ 6,155.52	\$ 64,024.40	20	\$ 458.00	\$ 9,160.00	11.2	\$ 496.00	\$ 5,555.20	11.2	\$ 496.00	\$ 5,555.20	
	8x8x24 Limestone Block														
	Steel Edging & Stakes	2160	lf	\$ 7.00	\$ 15,120.00	2160	\$ 10.00	\$ 21,600.00	2183	\$ 7.00	\$ 15,281.00	2183	\$ 7.00	\$ 15,281.00	\$ 65,937.00
	Flex	85.8	sf	\$ 153.00	\$ 13,127.40	193	\$ 153.00	\$ 29,529.00	90	\$ 242.00	\$ 21,780.00	90	\$ 242.00	\$ 21,780.00	
	Granite	71.5	yds	\$ 350.00	\$ 25,025.00	110	\$ 325.00	\$ 35,750.00	70	\$ 370.00	\$ 25,900.00	70	\$ 370.00	\$ 25,900.00	
E	26.88	tons	\$ 400.00	\$ 10,752.00	\$ 31,325.03	22	\$ 458.00	\$ 10,076.00	6	\$ 496.00	\$ 2,976.00	6	\$ 496.00	\$ 2,976.00	
	8x8x24 Limestone Block														
	Steel Edging & Stakes	1080	lf	\$ 7.00	\$ 7,560.00	1094	\$ 10.00	\$ 10,940.00	1118	\$ 7.00	\$ 7,826.00	1118	\$ 7.00	\$ 7,826.00	\$ 36,196.40
	Flex	43.46	sf	\$ 158.00	\$ 6,866.07	80	\$ 158.00	\$ 12,640.00	46	\$ 242.00	\$ 11,132.00	46	\$ 242.00	\$ 11,132.00	
	Granite	36.21	yds	\$ 325.00	\$ 11,769.36	60	\$ 325.00	\$ 19,500.00	36	\$ 370.00	\$ 13,320.00	36	\$ 370.00	\$ 13,320.00	
F	11.2	tons	\$ 458.00	\$ 5,129.60		13	\$ 458.00	\$ 5,954.00	7.9	\$ 496.00	\$ 3,918.40	7.9	\$ 496.00	\$ 3,918.40	
	8x8x24 Limestone Block														
G	14	tons	\$ 750.00	\$ 10,500.00	\$ 10,500.00	15	\$ 950.00	\$ 14,250.00	19.5	\$ 640.00	\$ 12,480.00	19.5	\$ 640.00	\$ 12,480.00	\$ 7,640
	24x24x48	18	per	\$ 625.00	\$ 11,250.00	11.250.00			18	\$ 877.00	\$ 15,786.00	18	\$ 877.00	\$ 15,786.00	\$ 4,374
H															
H POLLINATOR PLANT LIST															
Plantings Installed	Qty	Unit	Per	Extended	\$	Qty	unit	Extended	Qty	unit	Extended	Qty	unit	Extended	\$
Salvia greggii - Autumn Sage	10	1g	\$ 27.50	\$ 275.00	\$ 3,667.50	10	\$ 24.00	\$ 240.00	10	\$ 22.50	\$ 225.00	10	\$ 22.50	\$ 225.00	\$ 6,025.00
Hamelia patens - Fire Bush	5	3g	\$ 55.00	\$ 275.00		5	\$ 70.00	\$ 350.00	10	\$ 24.00	\$ 240.00	10	\$ 24.00	\$ 240.00	
Salvia leucantha - Mexican Bush Sage	10	1g	\$ 27.50	\$ 275.00		10	\$ 24.00	\$ 240.00	10	\$ 24.00	\$ 240.00	10	\$ 24.00	\$ 240.00	
Plumbago auriculata - Plumbago	10	1g	\$ 27.50	\$ 275.00		10	\$ 24.00	\$ 240.00	10	\$ 24.00	\$ 240.00	10	\$ 24.00	\$ 240.00	
Tecoma stans - Yellow Bells	5	3g	\$ 55.00	\$ 275.00		5	\$ 36.00	\$ 180.00	5	\$ 21.00	\$ 105.00	5	\$ 21.00	\$ 105.00	
Lantana urticoides - Texas Lantana	10	1g	\$ 27.50	\$ 275.00		10	\$ 24.00	\$ 240.00	10	\$ 24.00	\$ 240.00	10	\$ 24.00	\$ 240.00	
Malva viscaria drummondii - Turk's Cap	10	1g	\$ 27.50	\$ 275.00		10	\$ 24.00	\$ 240.00	10	\$ 24.00	\$ 240.00	10	\$ 24.00	\$ 240.00	
Buddleia davidii - Butterfly Bush	10	1g	\$ 27.50	\$ 275.00		10	\$ 24.00	\$ 240.00	10	\$ 24.00	\$ 240.00	10	\$ 24.00	\$ 240.00	
Prunus mexicana - Mexican Plum	2	15g	\$ 55.00	\$ 110.00		2	\$ 400.00	\$ 800.00	2	\$ 585.00	\$ 1,170.00	2	\$ 585.00	\$ 1,170.00	
Cercis canadensis var. texensis - Texas Redbud	5	3g	\$ 27.50	\$ 137.50		5	\$ 55.00	\$ 275.00	5	\$ 27.00	\$ 135.00	5	\$ 27.00	\$ 135.00	
Viburnum rufidulum - Rusty Blackhaw Viburnum	2	15g	\$ 55.00	\$ 110.00		2	\$ 400.00	\$ 800.00	2	\$ 585.00	\$ 1,170.00	2	\$ 585.00	\$ 1,170.00	
Chilopsis linearis - Desert Willow	10	1g	\$ 27.50	\$ 275.00		10	\$ 24.00	\$ 240.00	10	\$ 24.00	\$ 240.00	10	\$ 24.00	\$ 240.00	
Cephalanthus occidentalis - Buttonbush	10	1g	\$ 27.50	\$ 275.00		10	\$ 24.00	\$ 240.00	10	\$ 24.00	\$ 240.00	10	\$ 24.00	\$ 240.00	
Echinacea purpurea - Purple Coneflower	10	1g	\$ 27.50	\$ 275.00		10	\$ 24.00	\$ 240.00	10	\$ 24.00	\$ 240.00	10	\$ 24.00	\$ 240.00	
Rhus lanceolata - Prairie Flameleaf Sumac	2	15g	\$ 225.00	\$ 450.00		2	\$ 400.00	\$ 800.00	2	\$ 585.00	\$ 1,170.00	2	\$ 585.00	\$ 1,170.00	

Bid Tabulation

Hohtl Park Nature Trail Bid Sheet
10/21/2022

Crossover Park Estimate										2022		VE					
WETLAND PLANTS	Qty	Unit	Per	Per	Extended	Extended	Dudley		Collier		Qty	unit	Extended	Qty	unit	Extended	
							unit	Extended	unit	Extended							
	10	1g	\$ 27.50	\$ 275.00		\$ 275.00	10	\$ 24.00	\$ 240.00	\$ 240.00	10	\$ 22.00	\$ 220.00	10	\$ 22.00	\$ 220.00	
Typa domingensis - Southern Cattail	10	1g	\$ 27.50	\$ 275.00		\$ 275.00	10	\$ 24.00	\$ 240.00	\$ 240.00	10	\$ 23.00	\$ 230.00	10	\$ 23.00	\$ 230.00	
Equisetum hyemale - Horsetail Grass	2	15g	\$ 55.00	\$ 110.00		\$ 110.00	2	\$ 400.00	\$ 800.00	\$ 800.00	2	\$ 585.00	\$ 1,170.00	2	\$ 585.00	\$ 1,170.00	
Taxodium mucronatum - Montezuma Cypress	10	1g	\$ 27.50	\$ 275.00		\$ 275.00	10	\$ 24.00	\$ 240.00	\$ 240.00	10	\$ 54.00	\$ 540.00	10	\$ 54.00	\$ 540.00	
Hibiscus coccineus - Texas Star Hibiscus	2	15g	\$ 55.00	\$ 110.00		\$ 110.00	2	\$ 450.00	\$ 900.00	\$ 900.00	2	\$ 585.00	\$ 1,170.00	2	\$ 585.00	\$ 1,170.00	
Platanus mexicana - Tex-Mex Sycamore	10	1g	\$ 27.50	\$ 275.00		\$ 275.00	10	\$ 18.00	\$ 180.00	\$ 180.00	10	\$ 25.00	\$ 250.00	10	\$ 25.00	\$ 250.00	
Sesbania drummondii - Rattlebush	10	1g	\$ 27.50	\$ 275.00		\$ 275.00	10	\$ 18.00	\$ 180.00	\$ 180.00	10	\$ 25.00	\$ 250.00	10	\$ 25.00	\$ 250.00	
Sesbania herbacea - Coffeeweed	10	1g	\$ 27.50	\$ 275.00		\$ 275.00	10	\$ 18.00	\$ 180.00	\$ 180.00	10	\$ 25.00	\$ 250.00	10	\$ 25.00	\$ 250.00	
Ilex decidua - Possumhaw Holly	5	3g	\$ 55.00	\$ 275.00		\$ 275.00	5	\$ 54.00	\$ 270.00	\$ 270.00	5	\$ 57.00	\$ 285.00	5	\$ 57.00	\$ 285.00	
Arnica oppositifolia var. repens - Opposite-leaf Spotfl	10	1g	\$ 27.50	\$ 275.00		\$ 275.00	10	\$ 24.00	\$ 240.00	\$ 240.00	10	\$ 22.00	\$ 220.00	10	\$ 22.00	\$ 220.00	
Juncus texanus - Texas Rush	10	1g	\$ 27.50	\$ 275.00		\$ 275.00	10	\$ 24.00	\$ 240.00	\$ 240.00	10	\$ 23.00	\$ 230.00	10	\$ 23.00	\$ 230.00	
Carex Amphibola - Creek Sedge	10	1g	\$ 27.50	\$ 275.00		\$ 275.00	10	\$ 24.00	\$ 240.00	\$ 240.00	10	\$ 23.00	\$ 230.00	10	\$ 23.00	\$ 230.00	
Eleocharis montevidensis - Spike Rush	10	1g	\$ 27.50	\$ 275.00		\$ 275.00	10	\$ 24.00	\$ 240.00	\$ 240.00	10	\$ 22.00	\$ 220.00	10	\$ 22.00	\$ 220.00	
Andropogon Gerardii - Big Bluestem Grass	10	1g	\$ 27.50	\$ 275.00		\$ 275.00	10	\$ 24.00	\$ 240.00	\$ 240.00	10	\$ 22.00	\$ 220.00	10	\$ 22.00	\$ 220.00	
Agrostis scabra - Hair Grass	10	1g	\$ 27.50	\$ 275.00		\$ 275.00	10	\$ 24.00	\$ 240.00	\$ 240.00	10	\$ 19.00	\$ 190.00	10	\$ 19.00	\$ 190.00	
Total										\$	265,329.15	\$	381,089.00	\$	291,517.60	\$	24,124.00
Total Bid										\$	391,997.00	\$	10,908.00	\$	5,475.00		

All material will be pocket planted.
If plant material is unavailable please contact the Landscape Architect for substitutions
All material is to be bid as installed pricing.



1 TRAIL LAYOUT
SCALE: 1" = 40'-0"
VERIFY ALL DIMENSIONS



POLLINATOR PLANT LIST

- 10 - 1 Gal. - *Salvia greggii* - Autumn Sage
- 5 - 3 Gal. - *C. coelestinum* - Mistflower
- 10 - 1 Gal. - *Solidago* spp. - Goldenrod
- 5 - 3 Gal. - *Tecoma stans* - Yellow Bells
- 10 - 1 Gal. - *Lantana urticoides* - Texas Lantana
- 10 - 1 Gal. - *Malvaviscus drummondii* - Turk's Cap
- 10 - 1 Gal. - *C. herbaceus* - Indian Tea
- 2 - 15 Gal. - *Prunus Mexicana* - Mexican Plum
- 2 - 15 Gal. - *Cercis canadensis* var. *texensis* - Texas Redbud
- 5 - 3 Gal. - *Viburnum rufidulum* - Rusty Blackhaw Viburnum
- 2 - 15 Gal. - *Liatris* spp. - Blazing Star
- 10 - 1 Gal. - *Cephalanthus occidentalis* - Buttonbush
- 2 - 15 Gal. - *Rhus lanceolata* - Prairie Flameleaf Sumac
- 10 - 1 Gal. - *Anisacanthus quadrifidus* var. *wrightii* - Flame Acanthus

WETLAND PLANT LIST

- 10 - 1 Gal. - *Sorghastrum nutans* - Indiangrass
- 10 - 1 Gal. - *Equisetum hyemale* - Horsetail Grass
- 2 - 15 Gal. - *T. distichum* - Bald Cypress
- 10 - 1 Gal. - *Schizachyrium scoparium* - Little Blue Stem
- 2 - 15 Gal. - *P. occidentalis* - American Sycamore
- 10 - 1 Gal. - *Sesbania drummondii* - Rattlebush
- 10 - 1 Gal. - *Sesbania herbacea* - Coffeeweed
- 5 - 3 Gal. - *Ilex decidua* - Possumhaw Holly
- 10 - 1 Gal. - *Acmella oppositifolia* var. *repens* - Opposite-leaf Spotflower
- 10 - 1 Gal. - *Juncus texanus* - Texas Rush
- 10 - 1 Gal. - *Carex Amphibola* - Creek Sedge
- 10 - 1 Gal. - *Eleocharis montevidensis* - Spike Rush
- 10 - 1 Gal. - *Andropogon Gerardi* - Big Bluestem Grass
- 10 - 1 Gal. - *Agrostis scabra* - Hair Grass
- *Bouteloua gracilis* - Blue Grama
- *Aristida purpurea* - Purple Three-Awn

PLANTINGS TO BE LAID OUT ON SITE BY LANDSCAPE ARCHITECT.

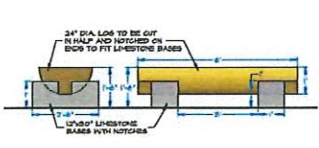
"CROSS OVER INTO NATURE"
TRAIL CIRCUIT 2,698 FEET (0.59 MILES)
ELEVATION CHANGE 50 VERTICAL FEET

LS1
LANDSCAPE ARCHITECTS
BRENHAM, TX
317 WILLIAM C. BUCK BLVD., SUITE 208
COLLEGE STATION, TEXAS 77845
979.836.2775

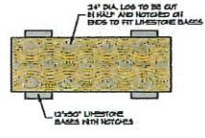
the land design group inc.
317 WILLIAM C. BUCK BLVD., SUITE 208, COLLEGE STATION, TEXAS 77845 | 979.836.2775
BRENHAM, TX
HOHLT PARK CROSSOVER NATURE TRAIL



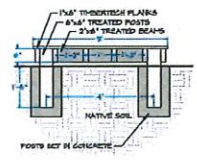
DATE	
BY	
NO.	
6	



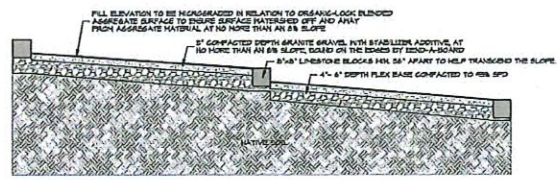
1 BENCH
SCALE: 1/2" = 1'-0"
VERIFY ALL DIMENSIONS



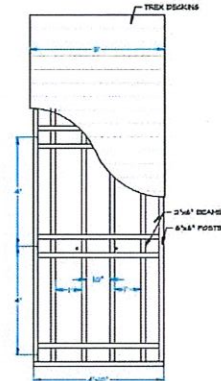
2 GRAVEL TRAIL
SCALE: 1/2" = 1'-0"
VERIFY ALL DIMENSIONS



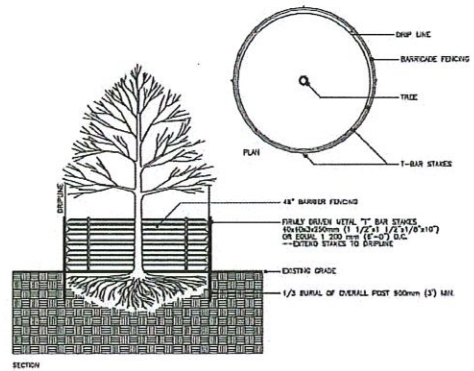
3 BOARDWALK SECTION
SCALE: 1/2" = 1'-0"
VERIFY ALL DIMENSIONS



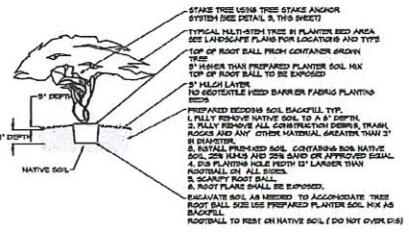
4 GRAVEL TRAIL
SCALE: 1/2" = 1'-0"
VERIFY ALL DIMENSIONS



5 BOARDWALK PLAN VIEW
SCALE: 1/2" = 1'-0"
VERIFY ALL DIMENSIONS

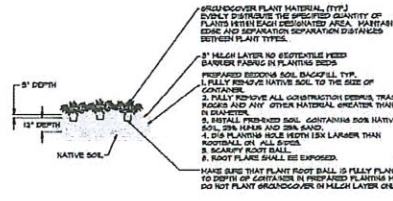
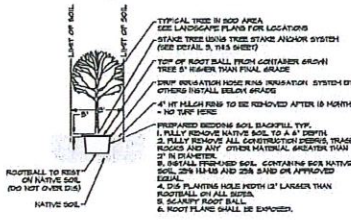


6 TREE PROTECTION
SCALE: 1/4" = 1'-0"
VERIFY ALL DIMENSIONS



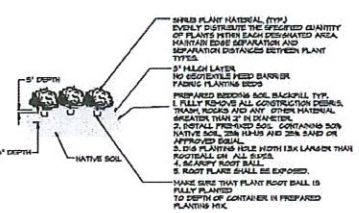
8 NON CANOPY TREE PLANTING
SCALE: 1/4" = 1'-0"
VERIFY ALL DIMENSIONS

7 ROOTBALL ANCHOR
SCALE: 1/4" = 1'-0"
VERIFY ALL DIMENSIONS

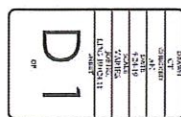


10 GROUNDCOVER PLANTING
SCALE: 1/4" = 1'-0"
VERIFY ALL DIMENSIONS

9 TREE PLANTING
SCALE: 1/4" = 1'-0"
VERIFY ALL DIMENSIONS



11 SHRUB PLANTING
SCALE: 1/4" = 1'-0"
VERIFY ALL DIMENSIONS



Hohlt Park - Brenham, Tx

Crossover Nature Trail

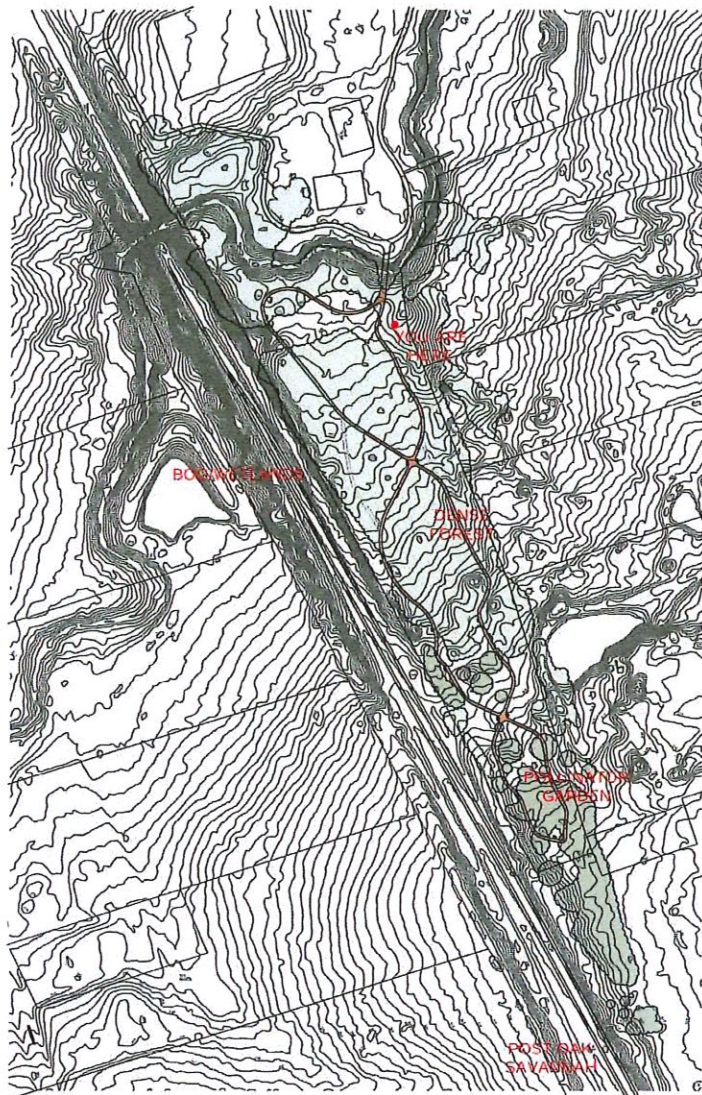
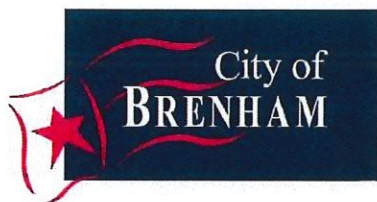
WELCOME

Welcome to Hohlt Park Crossover Nature Trail! There are 2,698 ft (0.59 miles) of trails to enjoy and over 50 vertical feet of rise within the park. This area of the park encompasses over 5 acres of land. There are many environments to explore. Such as bog/wetland areas, grassy fields, forested areas and pollinator gardens. The design of this trail system is for both recreation and educational purposes. You will find signs spread throughout the park that will explain different plants and animals you might see along the trails.

 A LOCAL PARK GRANT PROGRAM PROJECT

Funded in part from a portion of the state sales tax on sporting goods

Administered by Texas Parks & Wildlife Department



Hohlt Park - Brenham, Tx

Crossover Nature Trail

POLLINATORS

In Texas, pollinators include bats, bees, hummingbirds, butterflies, wasps, flies and beetles. Worldwide, up to 80% of all plant species are pollinated. Three quarters of the worlds most common human food crops are pollinated by insects. These include coffee, tea, peppers, berries, tomatoes, fruit and nut trees, spices and vegetables. Additionally, fields of livestock crops like alfalfa and clover are pollinated by insects.

Be on the lookout for these native pollinators:



Delta Flower Scarab
(*Trigonopeltastes delta*)



Common Buckeye
(*Junonia coenia*)



Monarch
(*Danaus plexippus*)



Miner Bee
(*Andrena spp.*)



Pipevine Swallowtail
(*Battus philenor*)



Orchard Bee
(*Osmia spp.*)



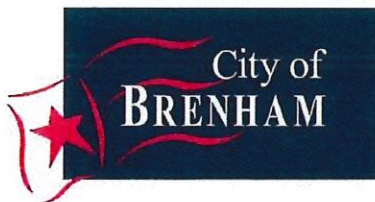
Long-Horned Bee
(*Sungria obliqua*)



Bumble Bee
(*Bombus pennsylvanicus*)



Colorful Foliage Ground Beetles
(*Lebia spp.*)



Hohlt Park - Brenham, Tx

Crossover Nature Trail

WETLANDS

Wetlands are places where land meets the water. It's a zone of transition that is neither dry nor a pond. Wetland plants are specially adapted to live in the saturated soil. Many of the animal species found in wetlands can be completely aquatic, such as fish. Others require both wet and dry habitats for survival. The ability for so many species to use wetlands makes this kind of ecosystem one of the most biologically diverse on Earth. You can find more kinds of animals and plants in an acre of wetland than in almost any other kind of ecosystem. Wetlands help maintain water quality, recharge aquifers and reduce flood damage, provide habitat, and are great places to go paddling, hunting, birdwatching, and fishing.

Be on the lookout for these native wetland plants:



Big Bluestem Grass
(*Andropogon gerardi*)



Indian Grass
(*Sorghastrum nutans*)



Mistflower
(*Conoclinium spp.*)



Blazing Star
(*Liatris spp.*)



Spike Rush
(*Eleocharis montevidensis*)



Blue Grama
(*Bouteloua gracilis*)



Creek Sedge
(*Carex Amphibola*)



Little Bluestem
(*Schizachyrium scoparium*)



Horsetail Grass
(*Equisetum hyemale*)



Possumhaw Holly
(*Ilex decidua*)



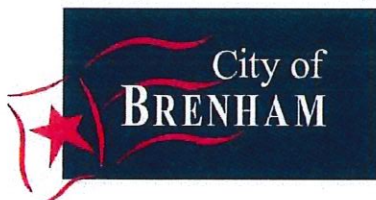
Texas Rush
(*Juncus texanus*)



Goldenrod
(*Solidago spp.*)



Purple Three-Awn
(*Aristida purpurea*)



Opposite-leaf Spotflower (*Acmella oppositifolia var. repens*)



Hohlt Park - Brenham, Tx

Crossover Nature Trail

MAMMALS

Mammals are by definition warm-blooded, air breathing vertebrates (with backbones). They have bodies covered in hair and feed their young milk. Most mammals give birth to miniature versions of themselves. Mammals as a group use every possible form of locomotion. Terrestrial species walk, run, jump, climb, hop, swing, dig, and burrow. Aquatic ones swim, shuffle, and dive. A few even fly. Diet and behavior vary, too. Many carnivores, for example, are top predators that live generally solitary lives, but some live in family groups. Even more social are some of the herbivores, especially hooved animals like deer. By living in large groups, they

Be on the lookout for these native mammals:



Eastern Gray Squirrel
(*Sciurus carolinensis*)



Raccoon
(*Procyon lotor*)



White-Tailed Deer (*Odocoileus virginianus*)



Virginia Opossum
(*Didelphis virginiana*)



Nine-Banded Armadillo
(*Dasypus novemcinctus*)



Striped Skunk (*Mephitis mephitis*)



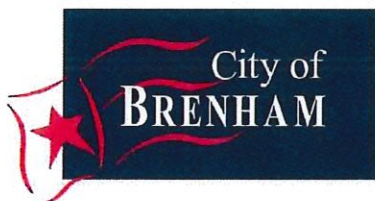
Eastern Cottontail Rabbit
(*Sylvilagus floridanus*)



Big Brown Bat
(*Eptesicus fuscus*)



Coyote (*Canis latrans*)



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REPTILES

Reptiles are air breathing, cold-blooded vertebrates (with backbones). They depend on the warmth from sunlight to become warm and active. In cold conditions they will become sluggish and inactive. They may even go into a state of hibernation or torpor. They have dry skin covered with scales or bony plates and usually lay soft-shelled eggs. Reptiles give birth to miniature versions of themselves. Most mother reptiles leave the nest once the eggs are laid. The hatchlings are independent from the start and must find their own food and shelter.

Be on the lookout for these native reptiles:



Six-Linked Racerunner
(*Aspidoscelis sexlineata*)



Common Snapping Turtle
(*Chelydra serpentina*)



Diamond-Backed Water Snake (*N. rhombifer*)



Common Box Turtle
(*Terrapene carolina*)



Little Brown Skink
(*Scincella lateralis*)



Rough Green Snake (*Ophedryx nestivus*)



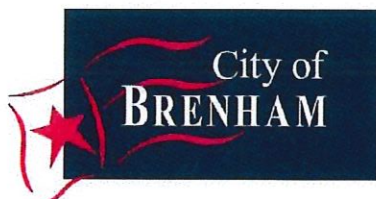
Red-Eared Slider
(*Trachemys scripta elegans*)



Eastern Garter Snake
(*Thamnophis sirtalis*)



Texas Rat Snake (*Pantherophis obsoleta lindheimeri*)



All species
above
are non-venomous
and harmless
to humans!



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BIRDS

Birds are warm-blooded vertebrates (with backbones) and are the only animals with feathers. Although all birds have wings, a few species can't fly, but many can also run, jump, swim, and dive. Everything about the anatomy of a bird reflects its ability to fly. The wings, for example, are shaped to create lift. The leading edge is thicker than the back edge, and they are covered in feathers that narrow to a point. Even their bones are specialized for flight. The main bone, the humerus, which is similar to the upper arm of a mammal, is hollow instead of solid.

Be on the lookout for these native birds:



Northern Mockingbird
(*Mimus polyglottos*)



American Robin
(*Turdus migratorius*)



Carolina Chickadee
(*Parus carolinensis*)



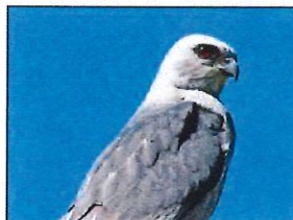
Common Yellowthroat
(*Geothlypis trichas*)



Great Horned Owl
(*Bubo virginianus*)



Red-Winged Blackbird
(*Agelaius phoeniceus*)



Mississippi Kite
(*Ictinia mississippiensis*)



Red-Tailed Hawk
(*Buteo jamaicensis*)



Ladder-Backed Woodpecker
(*Dryobates scalaris*)



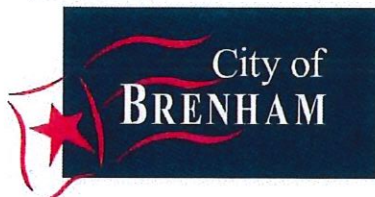
Ruby-Throated Hummingbird
(*A. colubris*)



Tufted Titmouse
(*Baeolophus bicolor*)



Orchard Oriole
(*Icterus spurius*)



Painted Bunting
(*Passerina ciris*)



Blue Jay
(*Cyanocitta cristata*)



Northern Cardinal
(*Cardinalis cardinalis*)

