

(Ward 1) Woodcreek Neighborhood Trail Project Update

Community Planning and Transportation Committee

June 22, 2023



Project History

- Councilmember Studley requested this project in the FYE 23 budget
 - Project would help pedestrian access from Woodcreek and Colonial Estates Additions on Classen Boulevard
- Staff's initial cost estimate of the project was \$425,000
- Due to the complex nature of this project staff requested consulting services
 - EST was selected from on-call services list
 - Task order was signed February 12, 2023



Project History

- Final report addresses the following project challenges
 - Route
 - Terrain
 - Paving selection
 - Creek crossing
 - Retaining walls
 - Cost estimate
 - Permitting
- Final report received June 12, 2023
- Cost for report \$21,000

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Prepared for:


City of Norman
201 W Gray St
Norman, OK 73070

June 12, 2023


EST PROJECT NO. Z3-02988 | CONTRACT NO. K-1920-62

Cedar Creek Pedestrian Bridge and Walkway





6-12-23



615 N Hudson, Suite 300
Oklahoma City, OK 73102

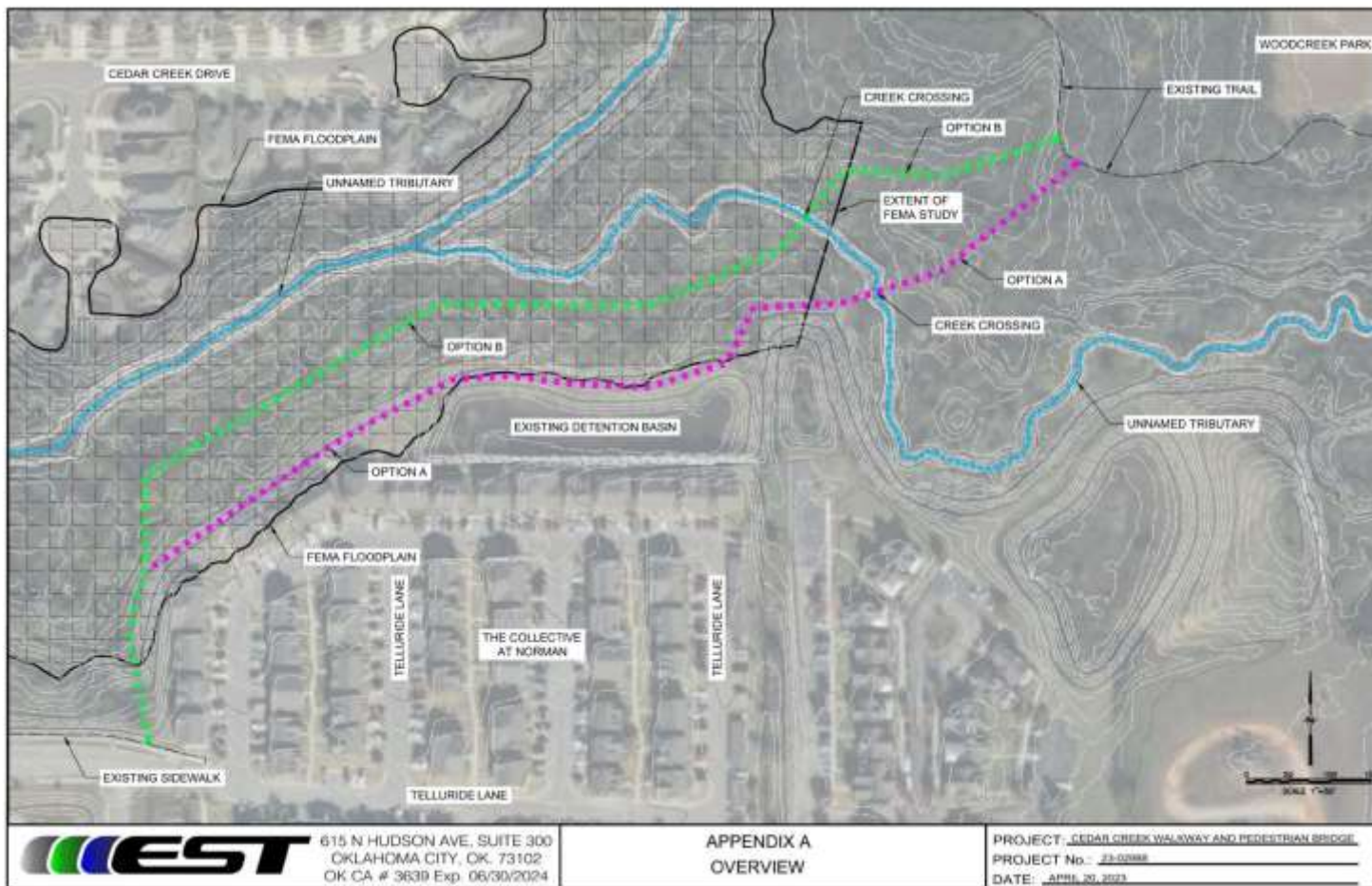
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Final Report



- The final report evaluated several options
 - 2 routes for the path
 - 3 paving alternatives
 - 2 pedestrian bridge designs

Route Options

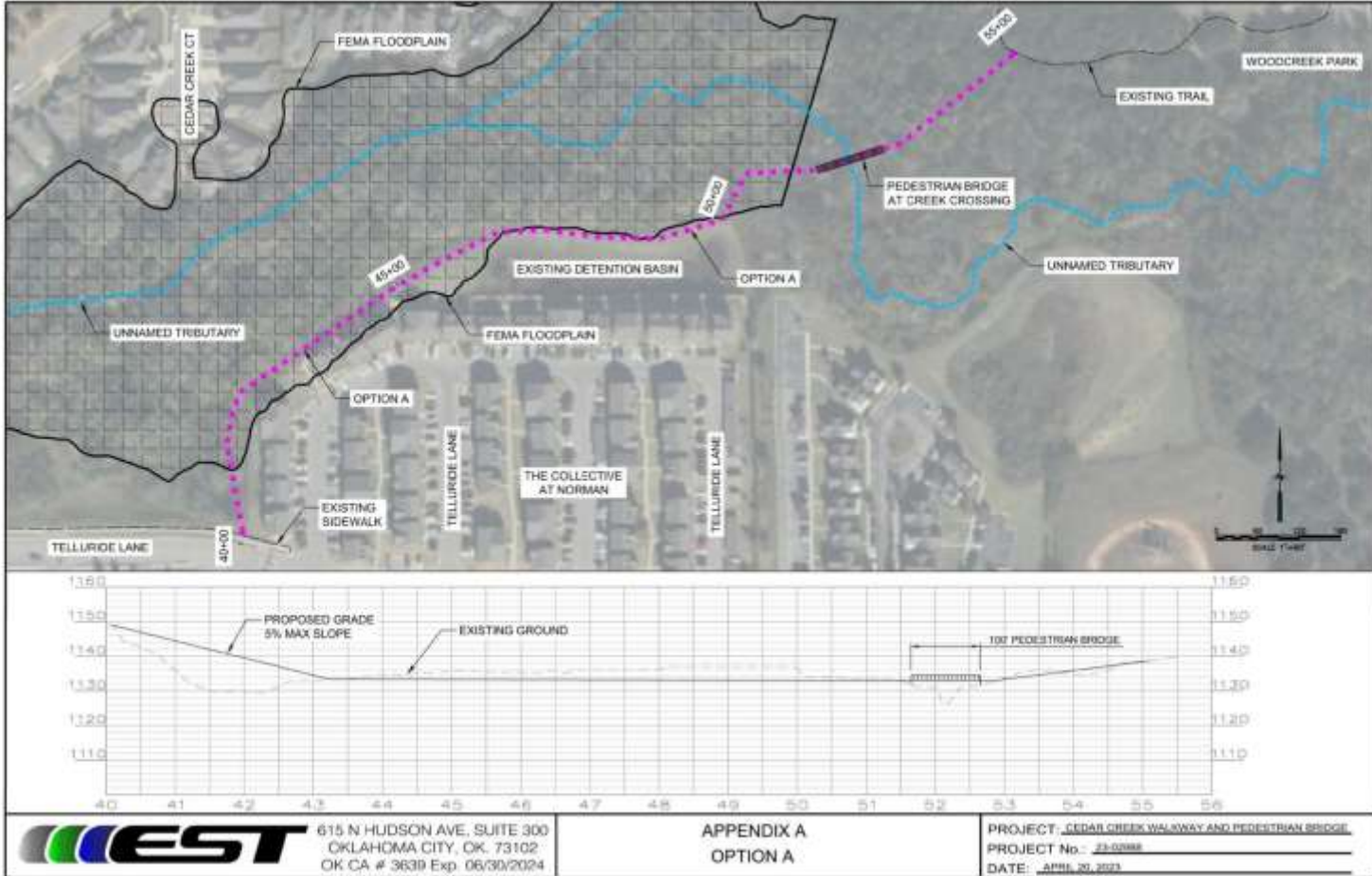


Route - Option A

- 8 foot walkway
- Requires right of way from 3 property owners
- Abuts the back of the existing apartments
- Crosses tributary of Bishop Creek
- Requires a City Flood Plain Permit
- May require Federal 404 permit for stream crossing



Route - Option A

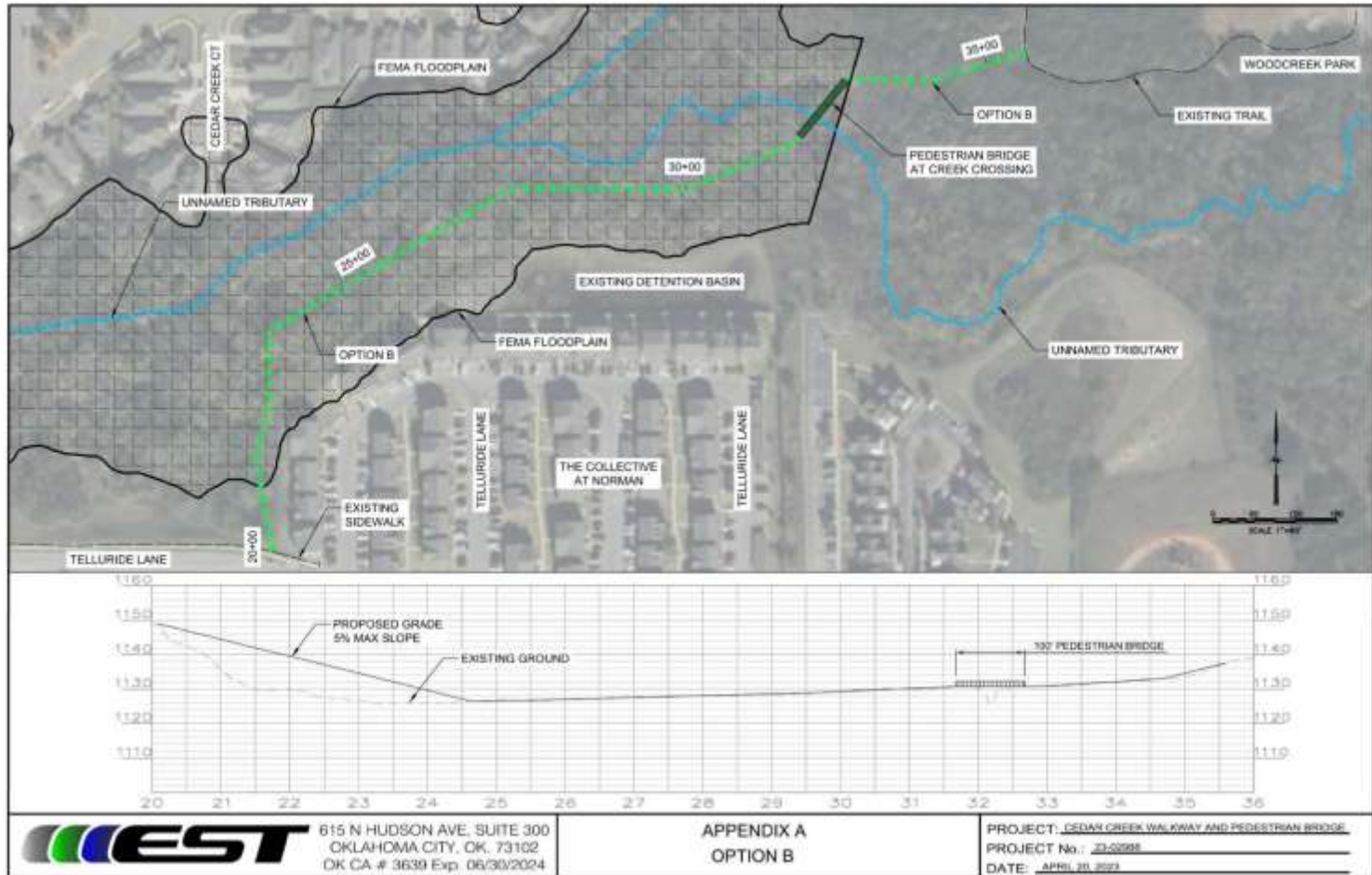


Route - Option B

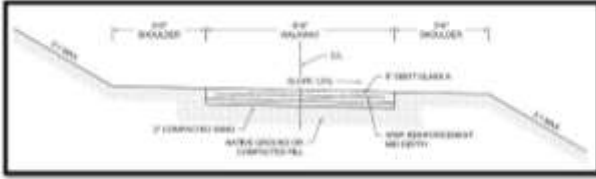
- 8 foot walkway
- Requires right of way from 4 property owners
- Closer to the creek but further from the apartments
- Crosses tributary of Bishop Creek
- Requires a City Flood Plain Permit
- May require Federal 404 permit for stream crossing



Route - Option B

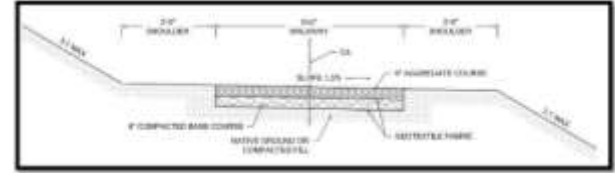


Paving Alternatives



Concrete

- 5 inches thick
- 2 inches of sand base
- Reinforced welded wire fabric
- Most durable

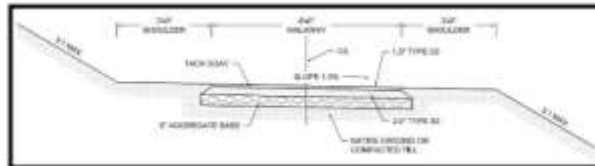


Asphalt

- 4 inches thick
- 6 inches of gravel base
- Less durable
- More labor intensive to install
- **Not considered for cost estimating**

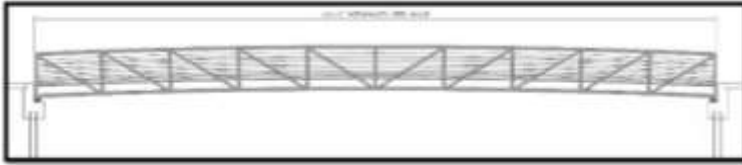
Decomposed Granite

- 6 inch thick
- 6 inches of gravel base
- Less durable
- Labor intensive to maintain



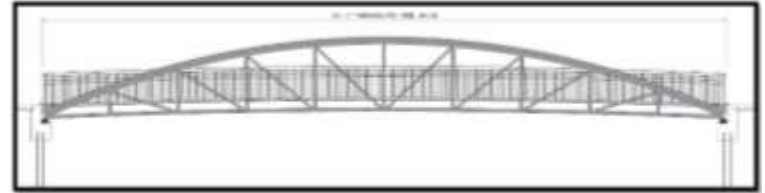
Pedestrian bridge design

- 100 foot span over creek
- 10 feet wide
- Both designs are prefabricated
- Steel
- Placed on bridge abutments on both sides of the creek



Connector Truss

- \$550,500
- Single span over the creek
- Selected for cost estimating



Keystone Truss

- \$600,500
- Requires construction in the creek

Cost analysis

Assumptions

- Both routes analyzed
- Concrete and decomposed granite paving analyzed
- Connector Truss pedestrian bridge selected
- Includes pedestrian lighting
- Includes contingency and design
- Right of way acquisition not included in costs
(estimated to be \$125,000 to \$300,000)

Route	Paving Material	Estimated cost	Price per LF
Option A	Concrete	\$1,455,700	\$970
Option A	Decomposed Granite	\$1,442,700	\$962
Option B	Concrete	\$1,520,500	\$981
Option B	Decomposed Granite	\$1,507,500	\$973

Option A with concrete provides the best long term choice due to the high cost of maintenance of the decomposed granite

Council Options

- Proceed to design on Option A with concrete paving
 - This option will require up to \$1,051,700 for construction in additional City capital funds
 - This option will require up to \$300,000 for right of way in additional City capital funds
- Postpone or terminate the project and use the allocated City capital funds for other sidewalk projects in Norman
 - This option allows \$404,000 in other sidewalk projects in Norman





Questions?

