



CIP Program

City of Huntsville, Texas

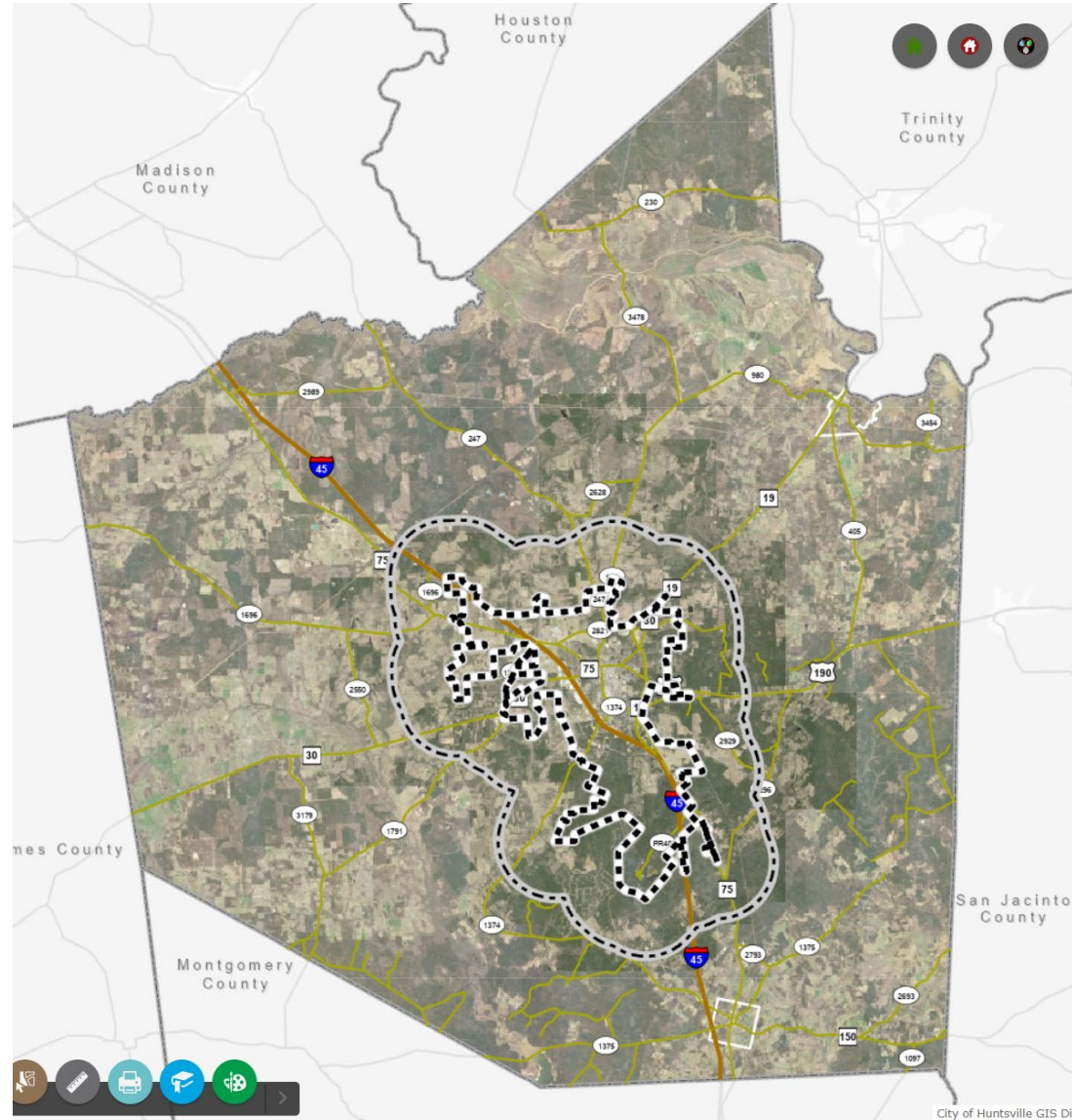
September 30, 2024

By

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City Engineer, Director of Engineering Department



Huntsville, Tx





Summary

| CIP Plan Summary 2024 to 2034 (Values are in \$1,000s) | | | | | | | | | | | | | | | | | |
|--------------------------------------------------------|------------------|------------------|-------------------|-------------------|-------------------|------------------|------------------|------------------|-----------------|-----------------|-----------------|-------------------|-------------------|---------------------|-------------------|---------------|-------------------|
| CIP - ALL COMBINED | FY 23-24 | FY 24-25 | FY 25-26 | FY 26-27 | FY 27-28 | FY 28-29 | FY 29-30 | FY 30-31 | FY 31-32 | FY 32-33 | FY 33-34 | TOTAL | City Funds | Grants/ Reimburs | Revenue Bonds | GO Bonds | TOTAL |
| Water CIP | \$ 1,818 | \$ 7,205 | \$ 12,738 | \$ 39,719 | \$ 33,760 | \$ 30,024 | \$ 27,999 | \$ 14,553 | \$ - | | | \$ 165,998 | \$ 26,158 | \$ - | \$ 139,840 | \$ - | \$ 165,998 |
| Wastewater CIP | \$ 3,302 | \$ 10,893 | \$ 72,974 | \$ 41,253 | \$ 33,271 | \$ 29,000 | \$ - | \$ - | \$ - | | | \$ 187,390 | \$ 30,553 | \$ 2,712 | \$ 154,125 | \$ - | \$ 187,390 |
| Airport CIP | \$ 380 | \$ 6,014 | \$ 900 | \$ 3,750 | \$ - | \$ - | \$ - | \$ - | \$ - | | | \$ 10,664 | \$ 1,400 | \$ 8,954 | \$ - | \$ 310 | \$ 10,664 |
| General CIP | \$ 150 | \$ 1,025 | \$ 2,713 | \$ 4,200 | \$ 5,000 | \$ - | \$ - | \$ - | \$ - | | | \$ 12,738 | \$ 2,063 | \$ 4,100 | \$ 6,575 | \$ - | \$ 12,738 |
| Sidewalks CIP | \$ 5,469 | \$ - | \$ 5,744 | \$ 50 | \$ 50 | \$ 50 | \$ 900 | \$ 3,150 | \$ 50 | \$ 50 | \$ 50 | \$ 10,044 | \$ 1,475 | \$ 8,569 | \$ - | \$ - | \$ 10,044 |
| Street CIP | \$ 100 | \$ - | \$ - | \$ 12,164 | \$ 60,343 | \$ 11,247 | \$ 59,199 | \$ - | \$ - | | | \$ 142,953 | \$ 19,793 | \$ - | \$ 123,160 | \$ - | \$ 142,953 |
| Drainage CIP | \$ 791 | \$ 6,080 | \$ 7,082 | \$ 7,600 | \$ 8,290 | \$ 9,300 | \$ 9,120 | \$ 11,200 | \$ 9,650 | \$ 8,000 | \$ 4,000 | \$ 80,322 | \$ 23,929 | \$ 2,880 | \$ 53,514 | \$ - | \$ 80,322 |
| TOTAL CIP - ALL COMBINED | \$ 12,010 | \$ 31,217 | \$ 102,151 | \$ 108,736 | \$ 140,714 | \$ 79,621 | \$ 97,218 | \$ 28,903 | \$ 9,700 | \$ 8,050 | \$ 4,050 | \$ 610,109 | \$ 105,371 | \$ 27,215 | \$ 477,213 | \$ 310 | \$ 610,109 |



Five - Year Water CIP Program FY 24 - 29

| | Fiscal Year | | | | | | City Funds - Water | | |
|-------------------------------------|-----------------|-----------------|------------------|------------------|------------------|------------------|--------------------|-----------------|---------------|
| | FY 23-24 | FY 24-25 | FY 25-26 | FY 26-27 | FY 27-28 | FY 28-29 | FY 23-24 | FY 24-25 | FY 25-26 |
| <i>Note: values are in \$1,000s</i> | | | | | | | | | |
| Water CIP | | | | | | | | | |
| TOTAL - Water CIP | \$ 1,818 | \$ 7,205 | \$ 12,738 | \$ 39,719 | \$ 33,760 | \$ 30,024 | \$ 1,818 | \$ 3,355 | \$ 750 |



Water CIP Line Item

Total Water CIP \$7.205 M

City Funds \$3.355 M

Item #2 -

- Construction Budget for the FY23-24 Miscellaneous Water Lines Design Project ID # 24-10-10 (\$1,325,000), Designed (Contract let 2/2024) by Aurora, Estimate **Bid Scheduled November 2024.**
 - Replacements and Upsize Water Lines along 11th St from Hickory Dr. to Normal Park Dr., Pine Shadows Dr. from Hickory Dr. to Normal Park Dr., along Chimney Rock Rd., Bois D Arc Dr., Cedar Dr., Pecan Dr., Oak Dr., Pear Dr. and along Old Madisonville Rd.



Water CIP Line Item

Total Water CIP \$7.205 M

City Funds \$3.355 M

Item #3 -

- Construction Budget for the FY23-24 Miscellaneous Water Lines Design Project ID # 24-10-09 (\$1,320,000), Designed (Contract let 2/2024) by Pape-Dawson, Estimate Construction Bid November 2024.
 - Replacements and Upsize Water Lines in the Mance Park Middle School area (2''-12'') bounded by the 6th St., Martin Luther King Dr., 10th St. and Avenue M.
 - Replacements and Upsize Water Lines Along Old Colony Rd. from Goodrich to HWY 19, Along Utility Road, Jeffro St., and Rhodes Rd.



Water CIP Line Item

Total Water CIP \$7.205 M

City Funds \$3.355 M

Item #4 -

- Construction Budget for the FY23-24 Miscellaneous Water Lines Design Project ID # 24-10-08 (\$1,220,000), Designed (Contract let 2/2024) by Walter P. Moore and Associates, Estimate Construction Bid November 2024.
 - Replacements and Upsize Water Lines in the Along Eastham Drive (1000') between Elmwood St. Royal Oaks, and Various Size Water lines in the Area.
 - Replacements and Upsize Water Lines Along Boettcher Dr. (2024') Between Old Houston Road and Morgan Ln, Other Side St. with Various Pipe Sizes.



Proposed TRA Water CIP Line Items – Design RFQs TBD

| <i>Note: values are in \$1,000s</i> | FY 23-24 | FY 24-25 | FY 25-26 | FY 26-27 | FY 27-28 | FY 28-29 | FY 29-30 | FY 30-31 | TOTAL FY 24-25 to FY 33-34 (11 Years) |
|----------------------------------------------------------------|-----------------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|---------------------------------------|
| Water CIP | | | | | | | | | |
| 30" Raw Waterline Improvements | | | \$ - | \$ - | | | | | \$ - |
| TRA Raw Water Intake and Program Management | | \$ 1,600 | \$ 2,910 | \$ 17,334 | | | | | \$ 21,844 |
| TRA Raw Water Transmission Improvements Phase I | | | | \$ 1,510 | \$ 9,138 | | | | \$ 10,648 |
| TRA Raw Water Transmission Improvements Phase 2 | | | | | \$ 1,510 | \$ 9,138 | | | \$ 10,648 |
| TRA Raw Water Transmission Improvements Phase 3 | | | | | | \$ 1,510 | \$ 9,138 | | \$ 10,648 |
| TRA Raw Water Treatment Plant Master Plan Update | | \$ 1,000 | | | | | | | \$ 1,000 |
| TRA High Service Transmission System | | \$ 500 | | | | | | | \$ 500 |
| TRA High Service Transmission Improvement - Program Management | | | \$ 1,620 | | | | | | \$ 1,620 |
| TRA High Service Transmission Improvements Phase I | | | | \$ 2,430 | \$ 14,553 | | | | \$ 16,983 |
| TRA High Service Transmission Improvements Phase 2 | | | | | \$ 2,430 | \$ 14,553 | | | \$ 16,983 |
| TRA High Service Transmission Improvements Phase 3 | | | | | | \$ 2,430 | \$ 14,553 | | \$ 16,983 |
| TRA High Service Transmission Improvements Phase 4 | | | | | | | \$ 2,430 | \$ 14,553 | \$ 16,983 |
| TOTAL - Water CIP | \$ 1,818 | \$ 7,205 | \$ 12,738 | \$ 39,719 | \$ 33,760 | \$ 30,024 | \$ 27,999 | \$ 14,553 | \$ 165,998 |



Five - Year Wastewater CIP Program FY 24 - 29

| <i>Note: values are in \$1,000s</i> | | | | | | | | | | |
|-------------------------------------|----------|-----------|-----------|-----------|-----------|-----------|----------|-----------------|----------|--|
| | FY 23-24 | FY 24-25 | FY 25-26 | FY 26-27 | FY 27-28 | FY 28-29 | FY 29-30 | | | |
| | | | | | | | | City Funds - WW | | |
| Wastewater CIP | | | | | | | | FY 23-24 | FY 24-25 | |
| TOTAL - Wastewater CIP | \$ 3,302 | \$ 10,570 | \$ 71,647 | \$ 42,903 | \$ 33,271 | \$ 29,000 | \$ - | \$ 2,541 | \$ 3,150 | |



Wastewater CIP Line Items

Total Wastewater CIP \$10.893 M

City Funds \$3.150 M

Item #2 -

- Tanyard Creek Lift Station Expansion – Construction Bid Nov 2024.
 - Rev. Fund \$952,000.
 - Bonds \$3,600,000.
 - Estimated Total Cost (\$4.5 M)
 - Several Lift Stations Abandoned and Rerouted to Tanyard Creek Lift Station. 190 LS, Sims LS, Mallory Lake LS, Badger LS, Old Colony LS, and Bearkat LS.



Wastewater CIP Line Items

Total Wastewater CIP \$10.893 M

City Funds \$3.150 M

Item #3 -

- Tanyard Creek Lift Station **Force Main** (8,500' of 10" to 14") – Design & **Construction Bid Nov 2024**.
 - Design Rev. Fund \$103,000; Estimated GLO Grants \$310,000.
 - Construction Rev. Fund \$468,000; Estimated GLO Grants \$1,402,000.
 - **Estimated Total Cost (\$2.3 M).**



Wastewater CIP Line Items

Total Wastewater CIP \$10.893 M

City Funds \$3.150 M

Item #4 -

- AJ – 09 Basin, Replacement of 10” Gravity Lines with 18” and 21”. –
Design – RFQ Oct/Nov 2024.
 - Design Rev. Fund \$340,000.
 - From HWY 19 to AJ – 08 Downstream of Tanyard Creek Lift Station.
 - Estimated Total Cost (\$4.1 M).



Wastewater CIP Line Items

Total Wastewater CIP \$10.893 M

City Funds \$3.150 M

Item #5 -

- **Robinson Creek Wastewater Treatment Plant Rehab and Expansion – Design RFQ Nov/Dec 2024.**
 - Preliminary Design Rev. Fund **\$200,000.**
 - Average Daily Flow from 2.5 MGD to 3.75 MGD.
 - Peak 2-Hour Flow from 7.5 MGD to 15 MGD
 - **Fifteen (15) Proposed New Developments** will Discharge Into This Plant (3400 Residential Units) **Since Sep. 2021 to April 2024.**



Wastewater CIP Line Items

Total Wastewater CIP \$10.893 M

City Funds \$3.150 M

Item #6 -

- **McDonald Creek Lift Station Replacement – Design RFQ Nov/Dec 2024.**
 - Preliminary Design Rev. Fund (**Need to Find Funding Source**, Maybe Combine with Robinson Creek WWTP).
 - Firm Capacity 1.44 MGD to 4.5 MGD.
 - The Ridge (1,200 Units).
 - **Estimated Total Cost (\$7.965M).**



Wastewater CIP Line Items

Total Wastewater CIP \$10.893 M

City Funds \$3.250 M

Item #7 -

- Hitchin' Post Lift Station Reh and 6" of 5,000' Replacement – Design RFQ Feb 2025.
 - Preliminary Design Rev. Fund (\$TBD).
 - Estimated Total Cost (\$1.973M)



Wastewater CIP Line Items

Total Wastewater CIP \$10.893 M

City Funds \$3.250 M

Item #8 -

- RC-05 Replacement of 10", 12", and 18" to 18", 21", 24" to McGary Creek LS – Design RFQ Jan/Feb 2025.
 - Preliminary Design Rev. Fund (\$200,000).
 - Crossing I-45 to McGary Creek LS.
 - W/WW Capacity Condition Assessment (2016), Project # 23. (Total Cost \$9.2 M).



Wastewater CIP Line Items

Total Wastewater CIP \$10.893 M

City Funds \$3.250 M

Item #9 -

- Pine Shadows Wastewater Line Relocation – Design & Construction – Potentially Developer or Engineering Firm
 - Rev. Fund (\$300,000).
 - Development Agreement with Watson-Cordone Development for Street Extension.
 - City Pays 100% of Wastewater Line Relocation, and Drainage Culvert .
 - City Pays 50% of Street Pavement and Drainage System.



Wastewater CIP Line Items

Total Wastewater CIP \$10.893 M

City Funds \$3.250 M

Item #10 -

- **N. B. Davidson Wastewater Treatment Plant Rehab and Expansion – Construction Winter 2025**
 - Design Rev. Fund \$250,000 (Additional).
 - To Continue Design Phase Until We Receive Grant/Bond \$.
 - Peak 2-Hour Flow to 6.5 MGD
 - Constructed in 1971, with Expansion in 1982 and 1994.
 - Existing Surface Aerators are High Maintenance and Operating Cost, and Equipment in the Plant are Deteriorated.
 - **Estimated Total Cost (\$28 M).**



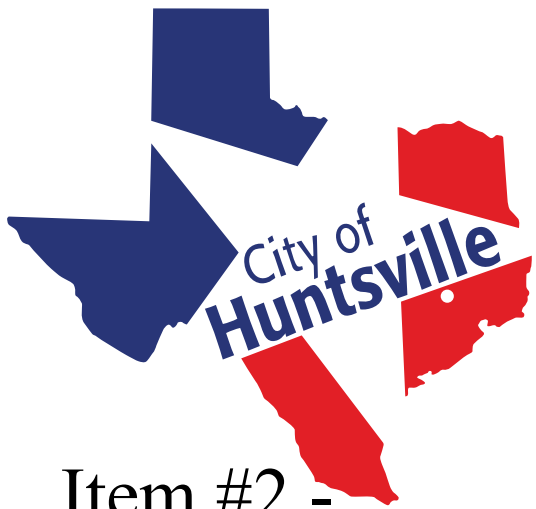
General CIP Program

| | FY 23-24 | FY 24-25 | FY 25-26 | FY 26-27 | FY 27-28 | FY 28-29 | FY 29-30 | FY 30-31 | FY 31-32 | FY32-33 | FY33-34 | TOTAL FY 24-25 to FY 33-34 (11 Years) | City Funds - General | | |
|--------------------------------------------------------------------------------|---------------|-----------------|-----------------|-----------------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------------------------------|----------------------|---------------|--|
| | | | | | | | | | | | | | FY 23-24 | FY 24-25 | |
| CIP - General | | | | | | | | | | | | | | | |
| MLK Phase II | \$ - | | | \$ 3,000 | | | | | | | | \$ 3,000 | \$ - | \$ - | |
| Pocket Park Improvements | | \$ - | \$ 100 | \$ 100 | | | | | | | | \$ 200 | \$ - | \$ - | |
| Emancipation Park Improvements | \$ - | | \$ 750 | \$ - | | | | | | | | \$ 750 | | | |
| New Lights for KBR 4-Plex | \$ - | | \$ 600 | \$ - | | | | | | | | \$ 600 | \$ - | \$ - | |
| Trail Improvements Phase I (such as Town Creek) | \$ - | \$ - | \$ 100 | \$ - | | | | | | | | \$ 100 | \$ - | \$ - | |
| Trail Improvements Phase II | \$ - | | \$ - | \$ 100 | | | | | | | | \$ 100 | \$ - | \$ - | |
| Eastham Thomason Park Improvements, Lighting/disc golf expansion / Pickle Ball | \$ - | \$ - | \$ 635 | \$ - | | | | | | | | \$ 635 | \$ - | \$ - | |
| Kate Barr Ross Soccer Restroom/Concession Facility Replacement | | | \$ 350 | | | | | | | | | \$ 350 | | \$ - | |
| Kate Barr Ross update to Fence | | | \$ 68 | | | | | | | | | \$ 68 | | \$ - | |
| Kate Barr Ross (KBR) Fields 9 , and 10 Parking Lots | \$ - | | \$ 110 | \$ - | | | | | | | | \$ 110 | \$ - | \$ - | |
| Service Center Demo and Parking Lots, Drainage | \$ - | \$ 575 | | | | | | | | | | \$ 575 | \$ - | \$ 575 | |
| Park Improvement Projects per Master Park Study | \$ - | \$ 250 | \$ - | \$ - | | | | | | | | \$ 250 | \$ - | \$ 250 | |
| Fire Station #3 | | | | \$ 1,000 | \$ 5,000 | | | | | | | \$ 6,000 | | | |
| Fire Station #4 | | | | \$ 1,500 | | | | | | | | \$ 1,500 | | | |
| Total - General CIP | \$ 150 | \$ 1,025 | \$ 2,713 | \$ 4,200 | \$ 5,000 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 12,738 | \$ 150 | \$ 825 | |



Five - Year Drainage CIP Program FY 24 - 29

| | FY 23-24 | FY 24-25 | FY 25-26 | FY 26-27 | FY 27-28 | FY 28-29 | City Funds - Drainage | | |
|-------------------------------------|----------|----------|----------|----------|----------|----------|-----------------------|----------|----------|
| | | | | | | | 22 | FY 23-24 | FY 24-25 |
| <i>Note: values are in \$1,000s</i> | | | | | | | | | |
| CIP - Drainage | | | | | | | | | |
| Total - Drainage CIP | \$ 791 | \$ 6,080 | \$ 7,082 | \$ 7,600 | \$ 8,290 | \$ 9,300 | | \$ 723 | \$ 3,262 |



Drainage CIP Line Items

Total Drainage CIP \$ 6.080 M

City Funds \$ 3.262 M

Item #2 -

- **Dawson Creek Dam – Design RFQ TBD.**
 - TCEQ Dam Safety Inspection (Nov. 2, 2022).
 - Required Written Plan of Action, H&H Study Based its Design Storm on Peak Water Level, Erosion Protection on Embankment and Spillways.
 - **Phase I Design, Rev. Fund (\$ 62,000, 25% Match for GLO).**
 - Survey, via Proposed Drainage Fees (\$100,000).
 - Phase I Construction, via Proposed Drainage Fees (\$ 200,000).
 - **Total Estimated Cost \$2.55 M.**



Drainage CIP Line Items

Total Drainage CIP \$ 6.080 M

City Funds \$ 3.262 M

Item #3 -

- **Autumn Road Drainage Project – Design RFQ – Awaiting Grant.**
 - City Share \$250,000 (25% City Matching Fund for the Proposed Grant GLO Application \$812,000).
 - Design and Construction Phase I (\$350,000, via Proposed Drainage Fees, FY 24-25).
 - Phase II Construction (\$ 950,000, via Proposed Drainage Fees, FY 25-28).
 - Including Downstream Channel Reh.
 - **Total Estimated Cost \$2.112 M.**



Drainage CIP Line Items

Total Drainage CIP \$ 6.080 M

City Funds \$ 3.262 M

Item #5 – Design RFQ Feb 2025

- 11th Street Drainage System (Possible Work with TxDOT)
 - City Funds \$ 300,000 (FY24-25).



Drainage CIP Line Items

Total Drainage CIP \$ 6.080 M

City Funds \$ 3.262 M

Item #6 -

- **Pine Street Drainage System – Design April 2025.**
 - City Funds **\$ 750,000** (FY 24-25).
 - 1,160' of 36" Storm Sewer with 4 Junction Boxes (4'x4'x12').
 - **2 Options; Along Backlot Easements (Easements Needs to be Acquired), or Along Pine St. ROW.**
 - Many Mature Trees Next to ROW, Existing ROW is 40'/50' in Width.



Drainage CIP Line Items

Total Drainage CIP \$ 6.080 M
City Funds \$ 3.262 M

Item #7 -

- **Downstream of the Woods at Elkins Lake – Design RFQ TBD**
 - Phase I Design **\$ 550,000** (FY24-25).
 - Potential System A, System B, System C (Including Relocation of 24”x 1,500’ Wastewater Line).
 - Total Probable Cost \$ 9.904 M.
 - ✓ System A - \$ 2,458,321.
 - ✓ System B - \$ 336,454.
 - ✓ System C - \$ 3,109,185 + 24” Wastewater Line Relocation (\$ 4 M).



Drainage CIP Line Items

Total Drainage CIP \$ 6.080 M

City Funds \$ 3.262 M

Item #8 -

- **Drainage Master Plan** – Information Submitted to the Listed for Flood Infrastructure Fund for the Drainage Plans in 2022. – **RFQ 2024/2025**
- Was Invited to **Submit Document to the TWDB Abridged Application Grant (Flood Infrastructure Fund 2024-2025) March 2024.**
 - City of Huntsville Master Drainage Plan (**\$ 700,000**). City Matches 10%.
 - Elkins Lake (**\$ 300,000**). City Matches 25%.
 - Spring Lake (**\$ 300,000**). City Matches 25%.
- City Matching **\$ 220,000**.



Drainage CIP Line Items

Total Drainage CIP \$ 6.080 M

City Funds \$ 3.262 M

Item #9 – **Design RFQ TBD**

- Miscellaneous Drainage Project.
- City Funds \$ 250,000.



Questions & Answers



Water CIP Line Item

Total Water CIP \$7.205 M

City Funds \$3.355 M

Item #1 -

- Miscellaneous Water Lines Construction Budgeted FY24-25.
 - Due to not enough Funding From FY23-24, Extra Funding Needed per Engineer Latest Estimated (Additional \$240,000).



Wastewater CIP Line Items

Total Wastewater CIP \$10.893 M

City Funds \$3.150 M

Item #1 -

- Miscellaneous Wastewater Lines Construction Budgeted FY24-25.
 - Due to not enough Funding From FY23-24, Extra Funding Needed per Engineer Latest Estimated **(Additional \$337,000)**.