



City of Grand
Prairie

2026 Outfall Rehabilitation Study

December 4, 2025

W.O.#: _____



1 OUTFALL REHABILITATION

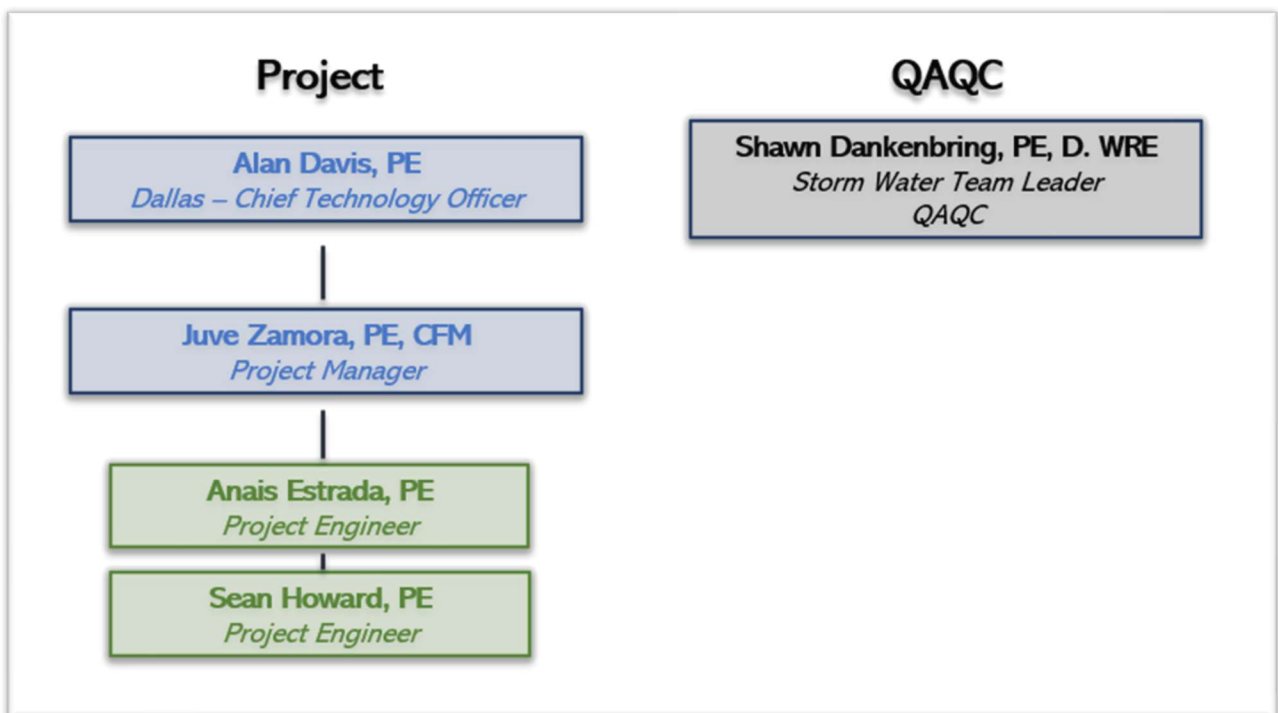
1.1 QUALIFICATIONS

Plummer Associates, Inc. (Plummer) has conducted business with quality and integrity for over 40 years. Founded in 1978, we operate thirteen offices across Texas, Oklahoma, Colorado, and Florida. We are a firm of over 200 engineers and scientists dedicated to the planning and design of water-related infrastructure projects and facilities. Water is what we do every day. Because of our total focus on water conveyance and water treatment related services, our engineers and scientists have become recognized experts in their fields at local, state, and national levels.

Not only has Plummer completed hundreds of projects involving the planning and design of water-related and wastewater infrastructure, but our firm also provides state-of-the-art tools, techniques, and proven processes to complete the job. Dedicated to water resources and environmental engineering, our firm balances sound engineering principles with innovative technology, tailored to our clients' needs. From initial project kick-off, through stringent QC review, to a completed project, our focus stays on developing cost-effective solutions for our clients. We are involved from project inception to implementation, and every step in between.

Plummer successfully developed and executed the ten previous Outfall Rehabilitation Studies. This experience qualifies us to continue to support the city with the Outfall Rehabilitation Program.

1.2 PROJECT TEAM



*A brief resume of key individuals is included in Attachment A.1.

1.3 PROJECT SCHEDULE

The staff indicated in the organization chart is available to complete the proposed work. They will be assigned the tasks defined in the proposed scope of work to meet the proposed schedule.

Phase	Task	Feb '26	Mar '26	Apr '26	May '26	Jun '26	Jul '26	Aug '26
	Notice to Proceed	X						
A	Desktop Analysis		X	X	X	X	X	X
B	Field Assessment		X	X	X	X	X	X
C	Office Work, GIS, QAQC		X	X	X	X	X	X

Goal to Complete Field Data Collection: **90** Days from Notice to Proceed

Goal to QC data, submit to City and respond to comments: **180** Days

Goal for Final Report and GIS Summary: **September 2026**

2 PROPOSED FEE

A maximum amount of **\$115,500** in accordance with billing rates found in Attachment A.2 and will be billed based upon the percentage of work completed. Inventory of maximum **321** outfall points (**Zone 5**) requested by the City. City will be invoiced for the work performed.

3 SCOPE OF SERVICES

3.1 TASK A – DESKTOP ANALYSIS

Perform cursory desktop analysis to identify potential outfalls that will require coordination for access. This will also serve to identify outfalls that may have relocated or that may be outside of the jurisdiction of the City. **Zone 5** inventories consist of approximately **321** outfalls based on GIS data provided by the City (Reference Attachment A.3). This includes several outfalls south of the city delineated Zone 5 boundaries which are included in this proposal.

3.2 TASK B - FIELD ASSESSMENT

Advances in mobile GIS technologies and associated programming capability have streamlined the mobile data collection process. This task will utilize a data collection tool, specified below, to collect the data developed in Task A.

The data for this phase will be captured in accordance with Attachment A.6 for all inventory locations using a mobile phone or tablet. The data will be captured and sent to a Plummer server (with cloud back-up) at the end of each day of field inventories. Plummer server will maintain a full electronic database of all information specified in Task A of this Phase. The database will also provide a mapping functionality as front-end visualization of status and initial data results. The Plummer server will maintain single PDF collections of each site photograph. The project will utilize existing city outfall naming convention and existing GIS database schema to provide a link between existing data and data developed as part of this project. The sites to be evaluated will be agreed upon prior to Plummer data collection and approved list of **Zone 5** outfalls that will be inventoried. Plummer will use proposed staff in Project Team section for all data collection and QA/QC process described in Attachment A.5 during

this contract. Any changes shall be proposed in advance to the city in accordance with the contract.

3.3 TASK C - DATA FORMATTING AND QUALITY CONTROL

Quality control of the data uploaded as part of the project will be conducted throughout the assessment, with concentration on the initial 1-2 batches. At a minimum, the outfall location accuracy, data functionality and accuracy, photos, and short video clip will be reviewed by Plummer prior to submittal to the city.

Standard photos (6 total) to include:

- 1 area view of structure
- 1 side view of structure
- 1 downstream view of structure and apron
- 1 downstream view of channel that receives flow from structure
- 1 broad upstream view of structure (include headwall, side slopes, and apron)
- 1 focused upstream view of structure (close-up to show measured size and detail of structure opening).

Additional photos will be taken to document any defects that are observed and an example of these photos is included in Attachment A.8.

A short video clip (<1 minute) will provide an overview of the site and will contain verbal identification of the structure ID. Any required review changes will be provided to the City and the changes shall be made to the database by Plummer to comply with the City requirements. A brief summary of this process is included below. A step-by-step QC process is included as Attachment A.5.

- Plummer will provide the City with a Microsoft Excel spreadsheet showing all data entries made per the format defined as included in Attachment A.6. Plummer will separate submittals into approximately 25 outfalls per individual submittal. It is assumed the City will provide review comments within 7 days from the submittal and Plummer will respond to City comments within 7 days after receiving comments.
- Upon City approval of outfall entries, a geodatabase of the field data will be generated in strict accordance with the field definition schema and domain definition schema specified by the City GIS Department and provided in Attachment A.7. The geodatabase will be transmitted to the City via email. The submittal will include a formatted geodatabase of all data specified in Task A above, and a single PDF for each site that includes all photos collected at the site. The PDF will use the same GIS SDD identifier as on the inventory data sheet to assist with database linkage. Plummer shall coordinate assignment of number identifiers and PDF linkage with City GIS staff. Each photo will have the unique GIS number identifier, bearing (azimuth and direction), and date included on the photograph.
- A technical memorandum will be prepared upon completion and City approval of the outfall surveys that further documents the processes of data collection and QA/QC. The outfalls that presented environmental, structural, or other issues will be highlighted. An overview map of the completed **2026** outfall inventories will be included as an exhibit. This document will be signed and sealed by a registered professional engineer.

3.4 ASSUMPTIONS AND LIMITATIONS

- Outfalls impacted by environmental conditions such as high water or excessive vegetation will be visited a maximum of 2 times. High water is defined as greater than 1.5 feet of depth where stream flows are reasonably estimated to be greater than 5 feet per second. Excessive vegetation is defined as vegetation that is dead or alive and exceeds 3.5 feet in height. The City and Plummer shall come to an agreement on proper deferrals.
- Investigators shall maintain discretion on outfalls covered in harmful plants such as poison ivy, poison oak, greenbrier, and other similar vegetation.
- Tree branches exceeding 2" in diameter will not be removed. However, smaller branches or vegetation may be cut to gain better access for data. Trees and vegetation will be left onsite and become the City's responsibility to dispose of. Plummer will send photo of vegetation and/or trees to City.
- Investigators shall maintain discretion on outfalls located along steep areas. Steep areas are defined as areas where the slope approaches 50% and greater. Special equipment such as ropes will not be used.
- Outfalls located in gated areas and where coordination has been attempted to access the outfall will be visited a maximum of 2 times.

APPENDIX A



SHAWN DANKENBRING, PE, DWRE, CFM

Stormwater Team Leader (QA/QC)

Shawn has over 27 years of experience in water resource engineering and roadway design. His experience includes storm drainage, detention and water quality facilities, stormwater management plans, outfall systems planning, Letter of Map Change through Federal Emergency Management Agency (FEMA), hydrology and hydraulics modeling, designed waterline and sanitary sewer lines. He has prepared plans for local agencies, CDOT and utility companies.

EXPERIENCE:

27 years

EDUCATION:

MS, Water Resource

Engineering, University of Colorado

BS, Mechanical Engineering, University of Colorado

REGISTRATION:

Texas PE, #148102

Colorado PE, #0039737

Diplomate Water Resource Engineering

OFFICE LOCATION:

Denver, Colorado

REPRESENTATIVE PROJECT EXPERIENCE

2021 Highlands Ranch Outfall Inspection Project | Douglas County, CO | Design Team.

Responsible for setting up a program to inspect 852 outfalls and rate them to determine what repairs needed to be done and when throughout Highlands Ranch, Colorado. The program used GIS to locate the outfalls and pictures and documentation was directly uploaded into a web-based database. Project was completed in 2021.

2021 Highlands Ranch Outfall Maintenance Project | Douglas County, CO | Design Team.

Responsible for getting two contractors on board and using the Douglas County Public Works Operations forces to clean, repair and daylight 21 outfalls that were rated "needs immediate attention" and 122 outfalls that were in "poor condition" within four months. The second phase would start in fall of 2022. Project was completed in first quarter of 2022.

2021 Highlands Ranch Storm Sewer Repair Project | Douglas County, CO | Design Team.

Responsible for plans and specifications to repair over 2,983 linear feet of storm sewer that ranged from 15-inch to 48-inch corrugated metal pipes throughout Highlands Ranch, Colorado. The pipes were repaired with an ultraviolet cured in place pipe, which would extend the service life of these culverts by 50 years. Project was completed in 2022.

Broadway and Southpark Rd Emergency Repair Project | Douglas County, CO | Design Team.

Responsible for 30-inch pipe repair that was 240 feet long that was removed and replaced just west of Broadway at Southpark Rd. The pipe required a 32-foot cut a few feet away from the sidewalk that was connect to Broadway. There was a point repair at the manhole on the east side of Broadway. The pipe was then lined with a Ultraviolet Cured in Place Pipe for the 400-foot length to extend the service life of the pipe directly under Broadway. This work was done by two different contractors and then coordination was done to get the driveway pavement redone and opened within a month.

SHAWN DANKENBRING, PE, DWRE, CFM (CONTINUED)**Stormwater Team Leader (QA/QC)****Sundown Trail Culvert Rehabilitation | Douglas County, CO | Design Team.**

Responsible for culvert repair design for an existing 120-inch corrugated metal pipe that was 120 feet long to be lined with a 108-inch HDPE pipe near Parker, Colorado. Created plans and specifications so project to be quoted by contractors, added headwall and wingwall on the upstream side to improve inlet condition and not impact the floodplain. Project was completed in early 2021.

Chambers Road Widening | Douglas County, CO | Design Team.

Responsible for storm sewer design, water quality ponds evaluations, and erosion control plans from Mainstreet to Lincoln. The storm sewer also included additional extensions from original design to new layout and placing inlets. The original design was done by me, so I knew the layout and what impacts the new design had to the original plans. There were 11 new inlets added that tied into the existing storm sewer system that was designed to handle this flow.

Highlands Ranch Parkway at Venneford Ranch Storm Sewer Repair Project | Douglas County, CO | Design Team.

Responsible for plans and specifications to repair two storm sewer systems that totaled over 2,084 linear feet of 36-inch corrugated metal pipes along Highlands Ranch Parkway near Venneford Ranch Road in Highlands Ranch, Colorado. The pipes were repaired with a steamed felt cured in place pipe, which would extend the service life of these pipes.

University Blvd at Highlands Heritage Park Storm Sewer Repair Project | Douglas County, CO | Design Team.

Responsible for plans and specifications to repair two locations of dual 60-inch pipes under University Blvd near Highland Heritage Park storm sewer systems that totaled over 1,430 linear feet of 60-inch corrugated metal pipes in Highlands Ranch, Colorado. Three of the pipes were repaired with an ultraviolet cured in place pipe and one was Acothane sprayed in place pipe, which would extend

the service life of these pipes. Project was completed in 2019.

2020 Public Works Operations Rural Pipe Lining Project | Douglas County, CO | Design Team.

Responsible for plans and specifications to repair 20 culverts that ranged from 12-inch to 72-inch corrugated metal pipes throughout Douglas County, Colorado. The pipes were repaired with an ultraviolet cured in place pipe, which would extend the service life of these culverts by 50 years. Project was completed in early 2022.

2020 Highlands Ranch Storm Sewer Repair Project | Douglas County, CO | Design Team.

Responsible for plans and specifications to repair over 2,207 linear feet of storm sewer that ranged from 15-inch to 54-inch corrugated metal pipes throughout Highlands Ranch, Colorado. The pipes were repaired with an ultraviolet cured in place pipe, which would extend the service life of these culverts by 50 years. Project was completed in early 2022.

Highlands Ranch Culvert Rehabilitation | Douglas County, CO | Design Team.

Responsible for three culvert rehab designs for corrugated metal pipes in Highlands Ranch, Colorado. Worked with County staff to get a project that could be advertised for the budget (two culverts advertised), the third culvert lining was added back in when one of the culverts could be repaired. This project turned into a multiple phase project to accommodate some other drainage needs throughout the County and creating plans for drainage projects to be advertised.

Spruce Mountain Road Box Repair Project | Douglas County, CO | Design Team.

Responsible for plans and specifications to repair a box culvert that had rebar exposed and voids that needed to be filled south of Larkspur, Colorado. A spray on Geopolymer Concrete application was used to repair the box and create a new floor bottom which extends the service life of this box culvert that is nearly 100-years old.



JUVE ZAMORA, PE, CFM

Project Manager

EXPERIENCE:

9 years

EDUCATION:

Master of Engineering,
Environmental
Engineering, Texas Tech

REGISTRATION:

Texas PE, #133706
Texas CFM, #4318-22N

OFFICE LOCATION:

San Antonio, Texas

Juvencio Zamora (Juve) is a project engineer at Plummer with experience in civil design including H&H, stormwater design, water line design, sewer rehabilitation design, and lift station design and construction. He has managed design, field data collection including surveying, geotechnical, and permitting. Juve has worked on projects in San Antonio and the surrounding areas, including the City of San Marcos and New Braunfels. He has also worked with other municipalities throughout Texas such as Denton, McAllen, Laredo, and Corpus Christi. Juve has worked closely with these municipalities for platting, tree removal, and other general construction permits for site hydrology and drainage, soil erosion control, underground utilities, and right-of-way sitework.

REPRESENTATIVE PROJECT EXPERIENCE

Sunset Acres | City of San Marcos, TX | Design Team.

The project consists of over \$3 million in proposed improvements to existing storm drainage system and drainage conditions at large in the subdivision. This includes sizing over 80 curb inlets on 14 residential streets for a watershed encompassing over 200 acres. Total project piping exceeds 9,000 linear feet of 18" -60" reinforced concrete pipe and boxes and includes redesign of a detention basin. In Phase 1 of the project, design includes expanding the basin to accommodate over 50 acres of runoff from the surrounding area.

River Road | City of San Marcos, TX | Design Team.

The project consists of providing stormwater runoff protection to a severely impacted portion of a public roadway adjacent to the San Marcos River. This project included reinforced concrete pipe flow line elevation and alignments recommendations for stormwater infrastructure within public right-of-way and abutting Union Pacific Railroad right-of-way. It also included recommendations for erosion protection measures on

the banks of the river according to United States Army Corps of Engineers and Federal Highway Administration guidelines.

Seguin Interconnect | New Braunfels Utilities | Design Team.

The project consists of a waterline alignment and pumps station feasibility study for a 10-mile pipeline to deliver water from a proposed pump station facility in the City of Seguin to a ground storage tank in the NBU service area. This includes site development, drainage, utility relocates, lot access, permitting, and other considerations such as environmental impacts. It also includes a water quality blending assessment analyzing corrosivity potential utilizing the TCEQ's method for evaluation (Tetra Tech Model for Water Chemistry and Corrosion Control). Juve's direct involvement included coordination with the City of Seguin for various permits associated with the development of a parcel such; driveway access through TxDOT, building permit (structural), fence permit, building permit (sitework), and floodplain development.



ANAIS ESTRADA

Project Engineer

Anais Estrada is a project engineer with experience in Water Resource Engineering. She has performed stormwater hydrology and hydraulic calculations, analyzed floodplain models, prepared stormwater management plans (SWMP), designed best management practices (BMPs), and water quality (“green”) stormwater infrastructure. Anais also has experience with “dry” utilities design, namely telecommunications systems; temporary traffic control plans; and permit submittals in multiples cities throughout the State of Texas.

EXPERIENCE:

11 years

EDUCATION:

BS, University of Texas
Rio Grande Valley

REGISTRATION:

Texas PE, #147891
Colorado PE, #62355

OFFICE LOCATION:

San Antonio, Texas

REPRESENTATIVE PROJECT EXPERIENCE

Norman Disinfection Site | City of

Norman, OK | Project Team. Anais prepared a preliminary design for a detention pond with optional water quality features for a 2-acre site. She performed H/H calculations, drafted required exhibits and quantified associated costs as summarized through an Opinion of Probable Construction Cost. The final design included a rain garden and bioswale designed to remove Nitrogen and Phosphorus, design of an outfall structure, and included miscellaneous site grading as shown in project documents.

Jacqueline Road Drainage Improvements | City of Forth Worth, TX | Project Team. Project consisted of repairs to existing infrastructure to mitigate nuisance flows in a residential area. Anais evaluated the existing conditions surface runoff flows and flooding issues by performing H/H calculations. She then made a recommendation based on her findings on the most cost-effective solution, leading to preliminary and then final construction plans. The final design included grade changes to existing concrete pavement to better maximize flow capacities, along with an earthen berm solution to better maintain 100-year water surface elevation within the right-of-way.

Grand Prairie Outfall Rehabilitation |

City of Grand Prairie, TX | Project Team. The project consists of 5 phases of condition analysis of City of Grand Prairie stormwater infrastructure. Anais’ role consisted of managing field collection activity and personnel as well as conducting QAQC on the data obtained for over 304 stormwater outfalls. The data included various condition analysis data such as structural and environmental defects. This data was then summarized via a geodatabase for the City.

American Airlines | Crescent Real Estate | Project Team. Anais prepared a Letter of Map Revision (LOMR) for two unnamed tributaries for the American Airlines expansion in the DFW Metroplex. The basis for the LOMR was submitted to the Federal Emergency Management Agency (FEMA) for consideration based on construction of new buildings and pedestrian bridge crossing. The LOMR included the updated analysis in HEC-RAS model based on the as-built conditions of the project site, the delineation of the 100-year floodplain and floodway, the 500-year floodplain delineation, and the floodplain work map and MT2 forms.



SEAN HOWARD, PE

Project Engineer

Sean Howard is a Professional Engineer on the Stormwater Team in Fort Worth. He had four and half years of experience in Land Development across North Texas. Prior to that he gained valuable experience in construction and large scale operations in the United States Air Force Civil Engineer squadrons. His experience includes design of both gravity flow and force main conveyance systems for water, stormwater, wastewater, and non-potable water, detention pond design, downstream assessments, site plan design, and pavement design.

EXPERIENCE:

11 years

EDUCATION:

BS, Civil Engineering,
University of Nevada

Las
Vegas

REGISTRATION:

Texas PE, #152145

OFFICE LOCATION:

Fort Worth, Texas

REPRESENTATIVE PROJECT EXPERIENCE

Marathon Oil Refinery

Garyville, LA | Project Team. Sean performed a site drainage survey, and helped analyze the existing storm infrastructure. He also analyzed the drainage areas for the property, both on-site and off-site, allowing for a full analysis of rainfall events that had been previously flooding the property.

409 Cooks Lane | Fort Worth, TX | Project Team. Sean designed the erosion control measures that would be implemented to alleviate the existing channel erosion which had potential to undermine nearby private property and roadways.

Fort Worth Zoo Drainage Systems

Fort Worth, TX | Project Team. Sean helped create a set of construction plans for an existing storm infrastructure system that had collapsed due to age. He helped redesign the storm system to alleviate nearby flooding issues as well. The site posed some challenges due to the storm infrastructure connecting to nearby residential neighborhoods.

Tom Taylor Water Treatment Plant | City of Lewisville, TX | Project Team.

Sean was added to the Conveyance team that was tasked with a redesign of the treatment plant and alleviating flooding issues. Using Value Engineering, Sean evaluated the current conditions and found the most cost-effective solutions to solve the flooding issues.

ATTACHMENT A
PLUMMER ASSOCIATES, INC
HOURLY FEE SCHEDULE
2026

Attachment A.2
 2026 Outfall Rehabilitation Study
 W.O. # _____

Category	Rate
Administration	
A1	\$ 100.00
A2	\$ 110.00
A3	\$ 125.00
A4	\$ 145.00

Category	Rate
CAD Designers	
C1	\$ 130.00
C2	\$ 140.00
C3	\$ 165.00
C4	\$ 185.00
C5	\$ 210.00

Category	Rate
Resident Project Representatives	
RR1	\$ 140.00
RR2	\$ 150.00
RR3	\$ 160.00
RR4	\$ 180.00

Category	Rate
Construction Managers	
CM1	\$ 160.00
CM2	\$ 170.00
CM3	\$ 185.00
CM4	\$ 210.00
CM5	\$ 230.00
CM6	\$ 270.00
CM7	\$ 320.00
CM8	\$ 340.00

Category	Rate
Electrical Engineers and Specialists	
EE1	\$ 155.00
EE2	\$ 170.00
EE3	\$ 195.00
EE4	\$ 230.00
EE5	\$ 260.00
EE6	\$ 300.00
EE7	\$ 350.00
EE8	\$ 370.00
EE9	\$ 390.00

Category	Rate
Engineers/Scientists	
ES0	\$ 95.00
ES1	\$ 155.00
ES2	\$ 170.00
ES3	\$ 190.00
ES4	\$ 220.00
ES5	\$ 250.00
ES6	\$ 270.00
ES7	\$ 325.00
ES8	\$ 360.00
ES9	\$ 390.00

Category	Rate
Geospatial	
LS1	\$ 130.00
LS2	\$ 135.00
LS3	\$ 150.00
LS4	\$ 175.00
LS5	\$ 220.00
LS6	\$ 265.00
LS7	\$ 280.00

Category	Rate
Telecommunication Designers	
TD1	\$ 130.00
TD2	\$ 140.00
TD3	\$ 160.00
TD4	\$ 175.00

Category	Rate
Professional	
P1	\$ 140.00
P2	\$ 160.00
P3	\$ 220.00
P4	\$ 300.00
P5	\$ 375.00

Billing rates may be adjusted up to 5 percent annually (at the beginning of each calendar year) during the term of the agreement.

A multiplier of 1.15 will be applied to all direct expenses.

Fleet vehicles charge at \$1,500 per month, \$150 per day.

**ATTACHMENT A.3
TOTAL DRAIN OUTFALL POINTS FOR FY2026 INVENTORY**

Item	ASSET ID	STRUCTURE TYPE	FUNCTIONS	WATERSHED	OWNER	WIDTH_FT	HEIGHT_FT	X	Y
1	110	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2	2	2412156.016	6899359.788
2	155	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	6.5	6.5	2413870.469	6904798.12
3	158	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	4	4	2415527.75	6903219.083
4	223	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2	2	2415265.333	6903681.417
5	224	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	1.5	1.5	2416369.583	6904382.667
6	225	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	3	3	2417931.576	6906642.322
7	226	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2	2	2416145.474	6904861.643
8	227	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	3	3	2419611.25	6907546.75
9	228	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	5	5	2417823.561	6904656.147
10	229	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2.5	2.5	2417902.951	6904521.295
11	230	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2	2	2417609.667	6904278
12	231	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2	2	2417659	6904267.333
13	232	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2.5	2.5	2416462.25	6904548.417
14	233	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2.79	2.79	2416332.409	6904674.429
15	234	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	3.5	3.5	2416249.75	6904764.583
16	235	BOX	OUTFALL	JOE POOL	GRAND PRAIRIE	10	6	2417498.167	6904455.75
17	236	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2.29	2.29	2418135.083	6907294.25
18	237	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2.5	2.5	2418128.917	6907279.75
19	240	BOX	OUTFALL	JOE POOL	GRAND PRAIRIE	6	3	2417564.75	6904574.75
20	241	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	3	3	2415848.833	6905398.917
21	242	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2.29	2.29	2416048.667	6905300.667
22	246	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2	2	2416227.667	6905047.167
23	248	BOX	INTAKE	JOE POOL	GRAND PRAIRIE	7	3	2417962.743	6904435.229
24	249	BOX	OUTFALL	JOE POOL	GRAND PRAIRIE	7	3	2415050.083	6903790.25
25	446	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	4.5	4.5	2414460.25	6903284.75
26	449	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2.79	2.79	2414471.25	6903488.333
27	452	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	3.5	3.5	2416644.667	6906597.583
28	469	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2	2	2417231.75	6905011
29	470	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2	2	2417335.333	6904903.917
30	471	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	4	4	2417386.917	6905110.5
31	472	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2.79	2.79	2416549.667	6904264.917
32	512	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	5	5	2418450.917	6908511.083
33	513	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2	2	2418875.083	6908110.667
34	516	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	7	7	2419498.75	6907532.917
35	615	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2	2	2418326.5	6906435
36	616	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	1.5	1.5	2418419.417	6906505.25
37	617	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	4	4	2418854.667	6906358.75
38	618	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2	2	2418737.583	6906433
39	619	PIPE	INTAKE	JOE POOL	GRAND PRAIRIE	3	3	2418733.75	6906348.667
40	620	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2	2	2418819.417	6906402.083
41	621	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	3	3	2418847.812	6906354.417
42	622	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	5	5	2418866.5	6906366.583
43	624	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	4.5	4.5	2418526.083	6908376.5
44	625	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2	2	2414991.417	6903892.333
45	626	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2	2	2414992.417	6903888.083
46	627	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	3	3	2414602.75	6901827.083
47	631	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2	2	2414547.667	6901614.917
48	632	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2	2	2414575.25	6902649
49	633	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2	2	2414576.75	6902599.25
50	634	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	4.5	4.5	2414554.908	6902940.762
51	635	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	5	5	2414583.833	6901014
52	636	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	0	0	2419234.083	6902676.833
53	637	PIPE	INTAKE	JOE POOL	GRAND PRAIRIE	4	4	2419408.667	6903094.5
54	638	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2	2	2419397.667	6904005.667
55	639	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	3.5	3.5	2420512.986	6900682.361
56	640	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	3.5	3.5	2420452.63	6900605.852
57	645	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2	2	2418513.583	6906194.167
58	915	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	1.5	1.5	2418546.167	6906188.583
59	931	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	0	0	2414551.75	6901393.083
60	932	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	3.5	3.5	2420580.417	6900494.917
61	933	BOX	OUTFALL	JOE POOL	GRAND PRAIRIE	0	0	2415095.417	6903984.75
62	948	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	5	5	2416578.75	6906365.833
63	949	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	1.5	1.5	2416707.917	6906608.5
64	950	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	0	0	2416827.333	6906388.417
65	951	BOX	OUTFALL	JOE POOL	GRAND PRAIRIE	6	3	2419614.417	6907571.25
66	1035	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	1.5	1.5	2420300.917	6900884.083

**ATTACHMENT A.3
TOTAL DRAIN OUTFALL POINTS FOR FY2026 INVENTORY**

Item	ASSET ID	STRUCTURE TYPE	FUNCTIONS	WATERSHED	OWNER	WIDTH_FT	HEIGHT_FT	X	Y
67	1036	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	1.5	1.5	2413414.75	6900169.25
68	1037	FLUME	OUTFALL	JOE POOL	GRAND PRAIRIE	2.79	0.5	2413619.667	6900307.833
69	1038	FLUME	OUTFALL	JOE POOL	GRAND PRAIRIE	2.79	0.5	2413604.167	6904375.75
70	1159	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2	2	2413178.583	6903749.25
71	1160	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	1.5	1.5	2412915.833	6903371.333
72	1161	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	3	3	2414464.167	6903640.667
73	1162	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	3	3	2420291.25	6900750.75
74	1163	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2	2	2415030.083	6900978.833
75	1164	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2	2	2415725.167	6901264.917
76	1165	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	1.5	1.5	2415997.333	6901293.833
77	1175	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	4.5	4.5	2414223.667	6900597.167
78	1285	BOX	OUTFALL	JOE POOL	GRAND PRAIRIE	10	8	2414521	6900661.333
79	1286	BOX	OUTFALL	JOE POOL	GRAND PRAIRIE	8	5	2414563.833	6902372.167
80	1288	N/A	OUTFALL	JOE POOL	GRAND PRAIRIE	0	0	2413452.75	6904160.583
81	1304	PIPE	OUTFALL	JOE POOL	HOA	2.5	2.5	2416579	6901412.917
82	1309	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	4	4	2416517.386	6901509.576
83	1310	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2	2	2416473.583	6901611.417
84	1311	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	4.5	4.5	2413218.833	6900056.25
85	1323	N/A	OUTFALL	JOE POOL	GRAND PRAIRIE	0	0	2413245.333	6900002.083
86	1324	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2.29	2.29	2413426.417	6900126.917
87	1325	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2	2	2412652.578	6902012.839
88	1326	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	1.79	1.79	2415020.917	6901134.167
89	1327	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	1.79	1.79	2415928.667	6901191.75
90	1328	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2.79	2.79	2416339	6901342.417
91	1329	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	3	3	2416500.667	6901627.917
92	1330	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2	2	2414123.285	6896564.142
93	1331	PIPE	OUTFALL	JOE POOL	HOA	1.5	1.5	2414124.052	6896557.517
94	1342	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2	2	2414124.753	6896553.326
95	1343	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2	2	2414595.25	6898833.25
96	1344	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2	2	2418557.25	6899231.167
97	1345	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2.29	2.29	2414513.25	6896583.333
98	1346	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2	2	2414604.417	6895068
99	1347	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2	2	2418182.847	6899155.389
100	1349	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	3.5	3.5	2414126.955	6896579.882
101	1350	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2	2	2418520.597	6899346.972
102	1351	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2	2	2417976.167	6899423.75
103	1352	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2	2	2414589.833	6897985
104	1353	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2.29	2.29	2417166.833	6900671.583
105	1354	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2	2	2417301.667	6900514.25
106	1355	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2.29	2.29	2417642.748	6899856.413
107	1356	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	3	3	2414572.083	6901161.833
108	1357	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2	2	2415257.167	6901117.417
109	1358	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2.29	2.29	2415136.833	6901080.583
110	1369	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2.79	2.79	2412932.078	6901754.839
111	1427	BOX	OUTFALL	JOE POOL	GRAND PRAIRIE	5	3	2414540.583	6897459.833
112	1428	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2.79	2.79	2414457.417	6897074.5
113	1430	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	1.5	1.5	2418356.288	6902373.39
114	1442	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	4	4	2418370.56	6902337.986
115	1444	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2	2	2418076.013	6899201.389
116	1449	BOX	OUTFALL	JOE POOL	GRAND PRAIRIE	7	3	2419021	6899233.083
117	1466	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2	2	2418711.497	6899148.07
118	1467	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2	2	2418845.442	6899039.244
119	1468	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	3.5	3.5	2418990.109	6898936.327
120	1470	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	4	4	2419133.5	6899391.833
121	1475	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	3.5	3.5	2419293.583	6899457.583
122	1479	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	3	3	2419434.417	6899543.083
123	1488	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	4.5	4.5	2419445.167	6899513.583
124	1489	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	0	0	2419280	6899349.083
125	1490	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	0	0	2419165.167	6899237.167
126	1491	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	4	4	2419671.548	6899700.151
127	1517	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2	2	2419779.465	6899794.401
128	1518	PIPE	INTAKE	JOE POOL	GRAND PRAIRIE	3	3	2419932.993	6899869.526
129	1519	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	6	6	2420061.965	6900034.068
130	1520	FLUME	OUTFALL	JOE POOL	HOA	4	0.69	2419003.179	6899282.921
131	1521	FLUME	OUTFALL	JOE POOL	HOA	4	0.69	2416117.583	6898914.25
132	1522	FLUME	OUTFALL	JOE POOL	HOA	4	0.69	2418501.847	6899273.806

**ATTACHMENT A.3
TOTAL DRAIN OUTFALL POINTS FOR FY2026 INVENTORY**

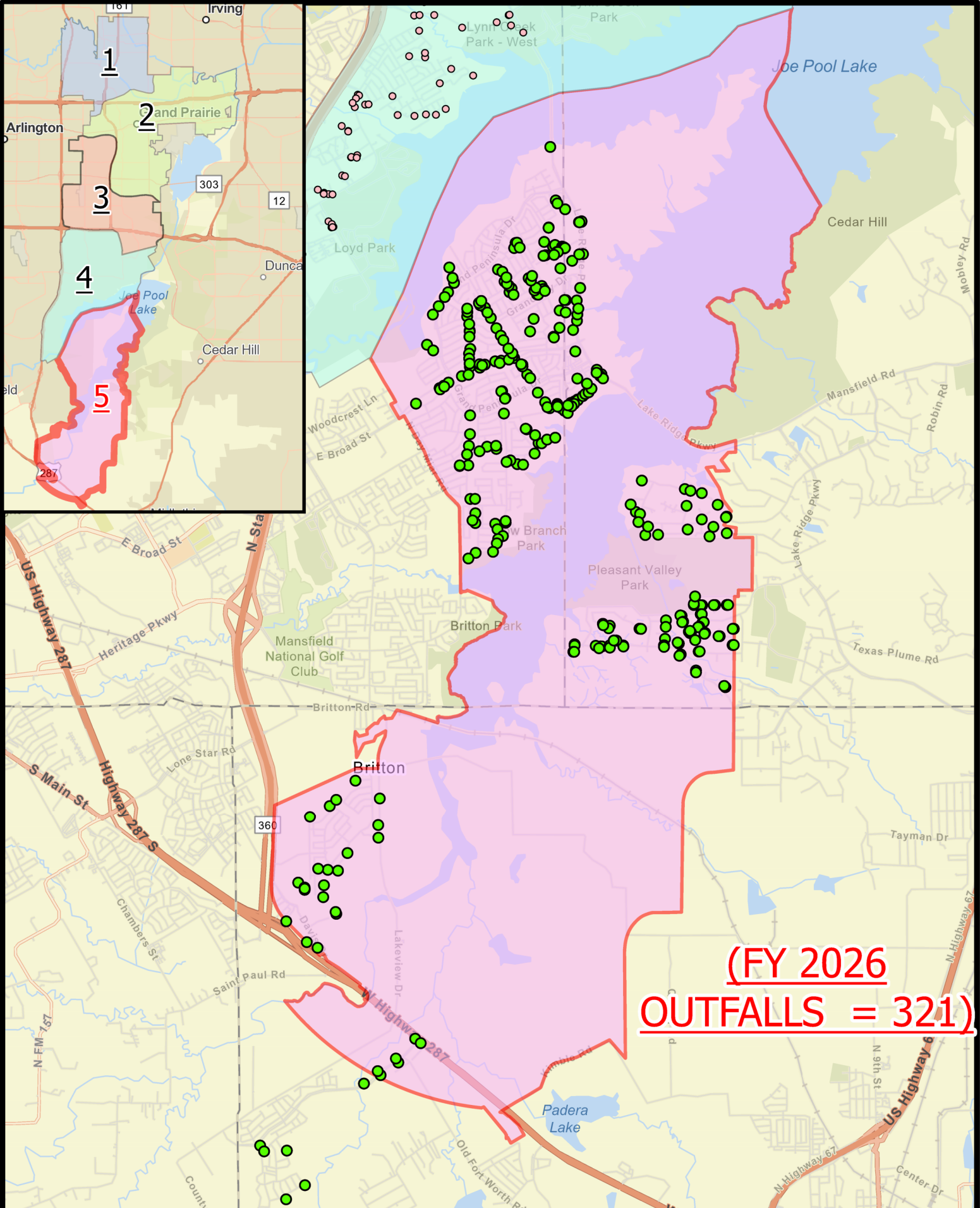
Item	ASSET ID	STRUCTURE TYPE	FUNCTIONS	WATERSHED	OWNER	WIDTH_FT	HEIGHT_FT	X	Y
133	1523	FLUME	OUTFALL	JOE POOL	HOA	4	0.69	2418535.097	6899224.473
134	1524	FLUME	OUTFALL	JOE POOL	HOA	4	0.69	2415776.833	6897321.333
135	1525	PIPE	OUTFALL	JOE POOL	HOA	1.5	1.5	2415360.09	6897420.597
136	1526	PIPE	OUTFALL	JOE POOL	HOA	1.5	1.5	2425031.417	6894145.667
137	1527	PIPE	OUTFALL	JOE POOL	HOA	1.5	1.5	2425381.75	6893379.167
138	1528	FLUME	OUTFALL	JOE POOL	HOA	4	0.69	2415777.583	6902757.083
139	1529	FLUME	OUTFALL	JOE POOL	HOA	4	0.69	2415976.417	6902419.25
140	1530	FLUME	OUTFALL	JOE POOL	HOA	4	0.69	2416092.408	6902215.846
141	1531	BOX	INTAKE	JOE POOL	HOA	3	3	2416319.75	6901842.083
142	1532	PIPE	INTAKE	JOE POOL	GRAND PRAIRIE	4	4	2416951.417	6901110.667
143	1533	PIPE	INTAKE	JOE POOL	GRAND PRAIRIE	0	0	2422329.583	6895895.333
144	1534	PIPE	INTAKE	JOE POOL	GRAND PRAIRIE	4	4	2422061.5	6894482.917
145	1535	PIPE	OUTFALL	JOE POOL	HOA	1.5	1.5	2422249.583	6894390.917
146	1536	FLUME	OUTFALL	JOE POOL	HOA	4	0.69	2422175.167	6894027.333
147	1537	FLUME	OUTFALL	JOE POOL	HOA	4	0.69	2424345.583	6894757.75
148	1539	BOX	INTAKE	JOE POOL	GRAND PRAIRIE	8	3	2422488	6893442.25
149	1540	BOX	OUTFALL	JOE POOL	GRAND PRAIRIE	8	4.3	2426157.333	6893526.583
150	1541	BOX	INTAKE	JOE POOL	GRAND PRAIRIE	8	4	2424268.715	6895513.003
151	1542	PIPE	INTAKE	JOE POOL	GRAND PRAIRIE	4.5	4.5	2424522.216	6895434.586
152	1543	BOX	INTAKE	JOE POOL	GRAND PRAIRIE	8	5	2425031.333	6895329.667
153	1544	BOX	OUTFALL	JOE POOL	GRAND PRAIRIE	8	5	2425747.667	6894804.417
154	1545	BOX	OUTFALL	JOE POOL	GRAND PRAIRIE	5	2	2426148.583	6894271.833
155	1546	BOX	INTAKE	JOE POOL	GRAND PRAIRIE	5	2	2424395.667	6893691.583
156	1547	PIPE	INTAKE	JOE POOL	GRAND PRAIRIE	2	2	2423062.833	6893458.75
157	1548	PIPE	INTAKE	JOE POOL	GRAND PRAIRIE	2	2	2425554.167	6893812.25
158	1549	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2	2	2422610.083	6893822.583
159	1550	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2	2	2415373.25	6903464.167
160	1551	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2	2	2416953.417	6901035.167
161	1552	BOX	INTAKE	JOE POOL	GRAND PRAIRIE	8	5	2426158.667	6890294.583
162	1553	BOX	OUTFALL	JOE POOL	GRAND PRAIRIE	8	5	2426217.167	6890296.167
163	1554	BOX	INTAKE	JOE POOL	GRAND PRAIRIE	5	2	2425628.5	6890290.167
164	1555	BOX	OUTFALL	JOE POOL	GRAND PRAIRIE	5	2	2425570	6890288.667
165	1556	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2	2	2425046.083	6890281.5
166	1557	BOX	INTAKE	JOE POOL	GRAND PRAIRIE	8	5	2424986.167	6890281.333
167	1561	BOX	OUTFALL	JOE POOL	GRAND PRAIRIE	6	3	2424672.25	6890290.833
168	1562	BOX	INTAKE	JOE POOL	GRAND PRAIRIE	6	3	2424672.5	6890339.167
169	1578	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2.5	2.5	2424982.417	6889880.083
170	1596	PIPE	INTAKE	JOE POOL	GRAND PRAIRIE	3	3	2425030.75	6889880.083
171	1597	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2.79	2.79	2425063.333	6889496.083
172	1598	BOX	OUTFALL	JOE POOL	GRAND PRAIRIE	4	2	2425118.083	6889521.5
173	1599	BOX	INTAKE	JOE POOL	GRAND PRAIRIE	4	2	2424911.333	6889321.75
174	1600	BOX	OUTFALL	JOE POOL	GRAND PRAIRIE	4	2	2424867.75	6889291.833
175	1601	BOX	INTAKE	JOE POOL	GRAND PRAIRIE	4	2	2424728.417	6890677.833
176	1602	BOX	OUTFALL	JOE POOL	GRAND PRAIRIE	4	2	2424500.167	6889026.75
177	1603	BOX	INTAKE	JOE POOL	GRAND PRAIRIE	4	2	2424542.833	6889058
178	1604	BOX	INTAKE	JOE POOL	GRAND PRAIRIE	4	2	2424447.917	6889090.75
179	1605	BOX	OUTFALL	JOE POOL	GRAND PRAIRIE	4	2	2423995.583	6888553.583
180	1606	BOX	OUTFALL	JOE POOL	GRAND PRAIRIE	3	2	2423943.25	6888601.917
181	1607	BOX	INTAKE	JOE POOL	GRAND PRAIRIE	3	2	2418621.25	6902776.667
182	1608	BOX	OUTFALL	JOE POOL	GRAND PRAIRIE	6	5	2424499.25	6889127.417
183	1609	BOX	INTAKE	JOE POOL	GRAND PRAIRIE	0	0	2426120.25	6894239.167
184	1610	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	0	0	2423417.833	6889602.25
185	1611	PIPE	INTAKE	JOE POOL	GRAND PRAIRIE	0	0	2423408.167	6889305.833
186	1612	WEIR	OUTFALL	JOE POOL	PRIVATE	116	4	2423374.5	6888769.917
187	1613	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	5	5	2424122.417	6889803
188	1614	BOX	OUTFALL	JOE POOL	GRAND PRAIRIE	0	0	2424070.167	6889821.5
189	1615	BOX	INTAKE	JOE POOL	GRAND PRAIRIE	4	2	2424193.167	6889539.75
190	1616	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	3	3	2424150	6889519
191	1617	PIPE	INTAKE	JOE POOL	GRAND PRAIRIE	3	3	2424081.75	6888066.333
192	1618	PIPE	INTAKE	JOE POOL	GRAND PRAIRIE	3	3	2424022.5	6888006.417
193	1619	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	3	3	2423329	6888478.5
194	1620	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	3	3	2423329.333	6888405.583
195	1621	PIPE	INTAKE	JOE POOL	GRAND PRAIRIE	3	3	2422226.917	6889224.833
196	1622	BOX	OUTFALL	JOE POOL	GRAND PRAIRIE	3	2	2422295.25	6889215.25
197	1623	BOX	INTAKE	JOE POOL	GRAND PRAIRIE	3	2	2419302	6888522
198	1625	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	3	3	2419302.083	6888463.583

ATTACHMENT A.3
TOTAL DRAIN OUTFALL POINTS FOR FY2026 INVENTORY

Item	ASSET ID	STRUCTURE TYPE	FUNCTIONS	WATERSHED	OWNER	WIDTH_FT	HEIGHT_FT	X	Y
199	1626	BOX	INTAKE	JOE POOL	GRAND PRAIRIE	4	2	2420472.5	6888425.667
200	1627	BOX	OUTFALL	JOE POOL	GRAND PRAIRIE	4	2	2420529.5	6888425
201	1628	BOX	OUTFALL	JOE POOL	GRAND PRAIRIE	3	2	2420879.917	6888469.25
202	1629	BOX	INTAKE	JOE POOL	GRAND PRAIRIE	0	0	2420889.75	6888372.833
203	1630	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	4.5	4.5	2421492.333	6888470.833
204	1631	PIPE	INTAKE	JOE POOL	GRAND PRAIRIE	4.5	4.5	2421499.583	6888420.917
205	1632	BOX	OUTFALL	JOE POOL	GRAND PRAIRIE	10	10	2420887.167	6889358.75
206	1633	BOX	INTAKE	JOE POOL	GRAND PRAIRIE	10	10	2420834.75	6889243.5
207	1637	BOX	INTAKE	JOE POOL	GRAND PRAIRIE	6	3	2420253	6888455.25
208	1638	BOX	OUTFALL	JOE POOL	GRAND PRAIRIE	6	3	2420401.5	6888345
209	1639	PIPE	INTAKE	JOE POOL	GRAND PRAIRIE	2	2	2426419.583	6888491.417
210	1640	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2	2	2425838.167	6888886.833
211	1641	PIPE	INTAKE	JOE POOL	GRAND PRAIRIE	0	0	2425787.667	6888886.667
212	1642	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	0	0	2425179.167	6889036.833
213	1647	PIPE	OUTFALL	JOE POOL	HOA	1.5	1.5	2424735.396	6888711.469
214	1648	PIPE	INTAKE	JOE POOL	HOA	1.5	1.5	2424890.75	6888197.667
215	1649	PIPE	INTAKE	JOE POOL	HOA	1.5	1.5	2426096.167	6886592.083
216	1650	PIPE	OUTFALL	JOE POOL	HOA	1.5	1.5	2426040.75	6886647.583
217	1652	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	3.5	3.5	2420574.583	6889444.5
218	1653	PIPE	INTAKE	JOE POOL	GRAND PRAIRIE	3	3	2420593.167	6889381.917
219	1655	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	1.5	1.5	2419245.417	6888184.083
220	1656	PIPE	INTAKE	JOE POOL	GRAND PRAIRIE	1.5	1.5	2419283.417	6888184.083
221	1657	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2.5	2.5	2421182.083	6888691.667
222	1658	PIPE	INTAKE	JOE POOL	GRAND PRAIRIE	2.5	2.5	2421066.833	6888693.333
223	1659	BOX	OUTFALL	JOE POOL	GRAND PRAIRIE	7	4	2410561.333	6869098.333
224	1660	BOX	INTAKE	JOE POOL	GRAND PRAIRIE	7	4	2412119.5	6870739.75
225	1661	PIPE	INTAKE	JOE POOL	GRAND PRAIRIE	2.59	2.59	2410431.333	6869281.25
226	1662	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2.5	2.5	2412368.667	6870539.833
227	1663	PIPE	INTAKE	JOE POOL	HOA	3	3	2418206.25	6910918.917
228	1664	PIPE	OUTFALL	JOE POOL	HOA	3	3	2419680.215	6906093.812
229	1666	PIPE	OUTFALL	JOE POOL	HOA	2	2	2419552.592	6904570.429
230	1667	PIPE	INTAKE	JOE POOL	HOA	2	2	2418629.528	6903554.799
231	1673	WEIR	OUTFALL	JOE POOL	GRAND PRAIRIE	1.7	1.7	2426473.667	6889220.833
232	1674	BOX	INTAKE	JOE POOL	GRAND PRAIRIE	5	3	2426425.083	6889220.833
233	1675	BOX	OUTFALL	JOE POOL	GRAND PRAIRIE	5	3	2426471.5	6888491.417
234	1727	BOX	OUTFALL	JOE POOL	HOA	8	4	2425150.503	6888995.671
235	1728	BOX	INTAKE	JOE POOL	HOA	8	4	2424935.583	6888200.167
236	1813	WEIR	INTAKE	JOE POOL	GRAND PRAIRIE	14	5	2424770.417	6887341.583
237	1815	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	1.5	1.5	2424769.667	6887257.25
238	1827	BOX	INTAKE	JOE POOL	GRAND PRAIRIE	4	0.6	2411358.764	6869666.694
239	1878	BOX	OUTFALL	JOE POOL	GRAND PRAIRIE	5	4	2411251.097	6869847.778
240	1879	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	4	4	2409811.417	6868719
241	1888	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2	2	2421827.771	6894818.167
242	1889	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2.5	2.5	2419519.416	6907524.252
243	1917	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2.5	2.5	2419426.073	6903374.674
244	1918	PIPE	INTAKE	JOE POOL	GRAND PRAIRIE	3.5	3.5	2419469.632	6903642.497
245	1919	PIPE	INTAKE	JOE POOL	GRAND PRAIRIE	5	5	2413656.531	6905491.337
246	1920	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	5	5	2413801.899	6905021.577
247	1921	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	5	5	2416035.656	6899922.646
248	1922	FLUME	OUTFALL	JOE POOL	GRAND PRAIRIE	4	0.8	2415999.667	6899911.833
249	1924	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	3	3	2416188.667	6899608.75
250	1928	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	3	3	2416165.833	6899581.167
251	1929	BOX	OUTFALL	JOE POOL	GRAND PRAIRIE	5	3	2416720.544	6896632.886
252	1930	BOX	OUTFALL	JOE POOL	GRAND PRAIRIE	8	3	2416980.075	6896612.712
253	1931	BOX	OUTFALL	JOE POOL	GRAND PRAIRIE	8	3	2417500.532	6897112.988
254	1932	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2.5	2.5	2417677.931	6897587.874
255	1933	PIPE	INTAKE	JOE POOL	GRAND PRAIRIE	2	2	2417816.466	6897570.096
256	1934	BOX	INTAKE	JOE POOL	GRAND PRAIRIE	8	3	2418062.359	6897740.87
257	1944	BOX	INTAKE	JOE POOL	GRAND PRAIRIE	7	3	2418430.085	6897826.174
258	1945	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	2	2	2417521.799	6897940.421
259	1946	FLUME	OUTFALL	JOE POOL	GRAND PRAIRIE	3	0.5	2417140.224	6898203.419
260	1947	FLUME	OUTFALL	JOE POOL	GRAND PRAIRIE	18.5	0.5	2417097.329	6898230.264
261	1948	FLUME	OUTFALL	JOE POOL	GRAND PRAIRIE	9	0.5	2419424.567	6900489.041
262	1949	FLUME	OUTFALL	JOE POOL	GRAND PRAIRIE	8.5	0.5	2414829.25	6893982.417
263	1950	FLUME	OUTFALL	JOE POOL	GRAND PRAIRIE	9	0.5	2415726.229	6893952.458
264	1951	FLUME	OUTFALL	JOE POOL	GRAND PRAIRIE	9	0.5	2416195.333	6893998.667

**ATTACHMENT A.3
TOTAL DRAIN OUTFALL POINTS FOR FY2026 INVENTORY**

Item	ASSET ID	STRUCTURE TYPE	FUNCTIONS	WATERSHED	OWNER	WIDTH_FT	HEIGHT_FT	X	Y
265	1952	FLUME	OUTFALL	JOE POOL	GRAND PRAIRIE	9	0.5	2416171.193	6894019.389
266	1953	FLUME	OUTFALL	JOE POOL	GRAND PRAIRIE	9	0.5	2416194.211	6894072.564
267	1954	FLUME	OUTFALL	JOE POOL	GRAND PRAIRIE	9	0.5	2416409.141	6896803.97
268	1955	FLUME	OUTFALL	JOE POOL	GRAND PRAIRIE	9	0.5	2414816.333	6895068.833
269	1956	FLUME	OUTFALL	JOE POOL	GRAND PRAIRIE	8.5	0.5	2414830.989	6894422.086
270	1970	FLUME	OUTFALL	JOE POOL	GRAND PRAIRIE	9	0	2415825.915	6893703.654
271	1971	FLUME	OUTFALL	JOE POOL	GRAND PRAIRIE	9	0	2416071.5	6893396.083
272	1975	PIPE	OUTFALL	JOE POOL	PRIVATE	3.5	3.5	2415855.745	6893263.211
273	1976	BOX	OUTFALL	JOE POOL	GRAND PRAIRIE	3	3	2415798.333	6893068
274	1977	FLUME	OUTFALL	JOE POOL	GRAND PRAIRIE	9	0	2415626.556	6892686.333
275	1978	FLUME	OUTFALL	JOE POOL	GRAND PRAIRIE	9	0	2414844.736	6892640.212
276	1979	FLUME	OUTFALL	JOE POOL	GRAND PRAIRIE	9	0	2416236.192	6896736.022
277	1980	FLUME	OUTFALL	JOE POOL	GRAND PRAIRIE	9	0	2414516.061	6892386.646
278	1981	FLUME	OUTFALL	JOE POOL	GRAND PRAIRIE	9	0	2415759.701	6897459.21
279	2080	PIPE	OUTFALL	UNSPECIFIED	GRAND PRAIRIE	0	0	2415017.833	6897215.333
280	2095	PIPE	OUTFALL	UNSPECIFIED	GRAND PRAIRIE	4	3	2417297.83	6902611.528
281	2101	PIPE	OUTFALL	UNSPECIFIED	GRAND PRAIRIE	0	0	2414701.752	6894101.092
282	2109	PIPE	OUTFALL	UNSPECIFIED	GRAND PRAIRIE	0	0	2419859.362	6900260.355
283	2214	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	0	0	2416895.193	6901132.837
284	2218	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	0	0	2410524.369	6881578.644
285	2219	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	0	0	2410461.556	6879785.394
286	2220	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	0	0	2408269.069	6881236.206
287	2221	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	0	0	2408562.213	6881516.175
288	2222	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	0	0	2409069.278	6879094.98
289	2224	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	0	0	2410454.343	6880356.715
290	2225	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	0	0	2407379.964	6880736.964
291	2226	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	0	0	2409429.386	6882380.36
292	2227	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	0	0	2407976.908	6877110.042
293	2228	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	0	0	2408008.877	6877645.518
294	2288	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	0	0	2408640.814	6878300.963
295	2289	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	0	0	2408185.103	6878339.084
296	2294	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	0	0	2407749.017	6878389.834
297	2295	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	0	0	2417996.694	6906043.513
298	2298	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	0	0	2417900.233	6906016.58
299	2299	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	0	0	2419192.195	6905791.794
300	2300	PIPE	OUTFALL	JOE POOL	GRAND PRAIRIE	0	0	2418909.44	6904021.01
301	2305	PIPE	OUTFALL	UNSPECIFIED	GRAND PRAIRIE	0	0	2405135.027	6865930.778
302	2306	PIPE	OUTFALL	UNSPECIFIED	PRIVATE	8	3	2408565.476	6876358.567
303	2307	PIPE	OUTFALL	UNSPECIFIED	PRIVATE	0	0	2408534.604	6876441.97
304	2308	PIPE	OUTFALL	UNSPECIFIED	GRAND PRAIRIE	36	36	2419510.078	6906083.553
305	2309	PIPE	OUTFALL	UNSPECIFIED	GRAND PRAIRIE	24	24	2418898.742	6903467.904
306	2311	PIPE	OUTFALL	UNSPECIFIED	GRAND PRAIRIE	0	0	2418663.844	6905455.126
307	2312	PIPE	OUTFALL	UNSPECIFIED	GRAND PRAIRIE	0	0	2418849.433	6904026.095
308	2313	PIPE	OUTFALL	UNSPECIFIED	GRAND PRAIRIE	0	0	2418376.58	6906059.625
309	2315	BOX	OUTFALL	UNSPECIFIED	GRAND PRAIRIE	6	3	2417458.587	6903175.524
310	2323	PIPE	OUTFALL	UNSPECIFIED	GRAND PRAIRIE	0	0	2406337.574	6865704.428
311	2324	PIPE	OUTFALL	UNSPECIFIED	GRAND PRAIRIE	0	0	2405313.797	6865667.763
312	2325	PIPE	OUTFALL	UNSPECIFIED	GRAND PRAIRIE	0	0	2406303.95	6863512.754
313	2326	PIPE	OUTFALL	UNSPECIFIED	GRAND PRAIRIE	0	0	2407153.641	6864147.327
314	2333	BOX	OUTFALL	UNSPECIFIED	GRAND PRAIRIE	0	0	2407235.962	6875085.965
315	2334	BOX	OUTFALL	UNSPECIFIED	GRAND PRAIRIE	0	0	2407235.962	6875085.965
316	2347	PIPE	OUTFALL	UNSPECIFIED	GRAND PRAIRIE	0	0	2407721.879	6874831.25
317	2348	PIPE	OUTFALL	UNSPECIFIED	GRAND PRAIRIE	0	0	2406849.664	6877763.826
318	2349	PIPE	OUTFALL	UNSPECIFIED	GRAND PRAIRIE	0	0	2407138.379	6877540.855
319	2350	PIPE	OUTFALL	UNSPECIFIED	GRAND PRAIRIE	0	0	2407140.141	6877440.391
320	2353	PIPE	OUTFALL	UNSPECIFIED	GRAND PRAIRIE	0	0	2407139.573	6877491.505
321	2354	PIPE	OUTFALL	UNSPECIFIED	GRAND PRAIRIE	0	0	2419333.564	6901711.002

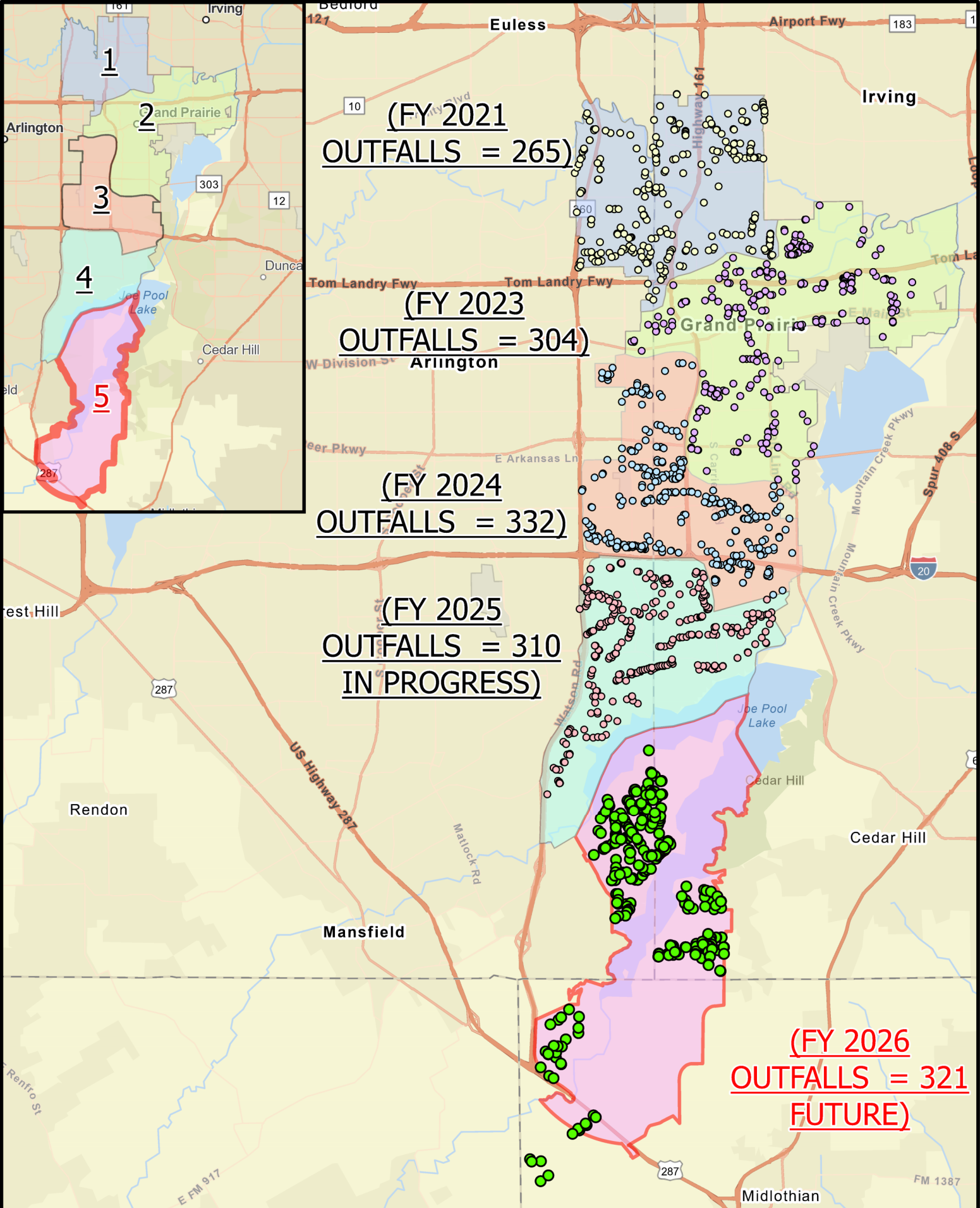


**(FY 2026
OUTFALLS = 321)**

**ATTACHMENT A.4-1
EXHIBIT A: FY2026 ZONE 5**

- FY2021 OUTFALLS
- FY2023 OUTFALLS
- FY2024 OUTFALLS
- FY2025 OUTFALLS
- FY2026 OUTFALLS
- Zone 1
- Zone 2
- Zone 3
- Zone 4
- Zone 5





(FY 2021)
OUTFALLS = 265

(FY 2023)
OUTFALLS = 304

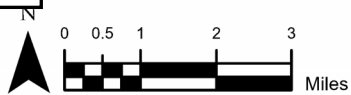
(FY 2024)
OUTFALLS = 332

(FY 2025)
OUTFALLS = 310
IN PROGRESS

(FY 2026)
OUTFALLS = 321
FUTURE

ATTACHMENT A.4-2
EXHIBIT B: FY2026 OVERALL MAP

- FY2021 OUTFALLS
- FY2023 OUTFALLS
- FY2024 OUTFALLS
- FY2025 OUTFALLS
- FY2026 OUTFALLS
- Zone 1
- Zone 2
- Zone 3
- Zone 4
- Zone 5



QA/QC Process

The following QA/QC will be performed on each batch of 2024 outfall data, prior to submittal to the City for review:

Phase	QA/QC	Explanation	Individual Responsible
Field	Verify size	Compare documented size of structure (height/width) with measured size of structure. Measure structure with tape measure and document measurement with an image.	Anais Estrada
Field	Document existing conditions and issues	Collect all required information on the existing condition of the structure per the inventory form. Besides the typical photo documentation (upstream, downstream, transverse, and area photos), document any issues found with additional detail photos. Document all stream-crossing/retention/detention pond outfalls/intakes (added 2015).	Anais Estrada
Field	Verify bearing	Confirm that photo direction bearing represents the facing direction of each photo. Update bearing as needed.	Anais Estrada
Field/Office	Notify Failing Score	If an outfall scores as a failure (structural or environmental condition), notify City within 72 hours of field visit.	Juve Zamora / Anais Estrada
Office	Verify location	Plot each City SDD coordinate in ArcGIS Pro, compare this against the mobile data coordinate. If the mobile data coordinate is more accurate, replace City coordinates for GIS export.	Juve Zamora / Anais Estrada
Office	Check blanks	Check all blank data cells – confirm that all required inputs or descriptors are completed.	Juve Zamora
Office	Verify size	Double check - compare documented size of structure (height/width) with measured size of structure. Re-survey/re-document discrepancies as needed.	Juve Zamora
Office	Grammar check	Check comments for errors in entry and/or grammar and complete as needed. Run spell-check on file.	Juve Zamora / Anais Estrada
Office	Verify photos	Verify that photo-stamped time, date, and bearing are correct and match the data fields as marked in spreadsheet. For multiple visits, image date should be the date on which the majority of photos were taken. Inspect date should be the last date on which the outfall was surveyed for new data or updates.	Juve Zamora / Anais Estrada
Office	Verify PDFs	Verify that all photos shown on the outfall PDF correspond to the outfall SDD_ID.	Shawn Dankenbring
Office	Overall QA	Review submittal for general consistency and logic and for overall completeness	Shawn Dankenbring
Office	Overall QA	Review location of inventory points with aerial layer and adjust to aerial structure shown. Notify on all points adjusted in the transmittal.	Juve Zamora/ Anais Estrada

ATTACHMENT A.6 ATTRIBUTE DESCRIPTIONS

#	Field Label	Field Definition	Unit of Measure	Precision	Acceptable Selections
1	SDD_ID_N	The unique GIS outfall identifier number assigned by GIS Section.	Integer	Exact	Assigned by GIS Section
2	IMAGE_LINK	The computer system location path ending with the SDD_ID_N number for any files linked to discharge point.	Text	Exact	Provided by consultant to link pictures
3	DATE	Date that GIS staff updated the layer	Month/Day/Year	Month in 2 digits, day in 2 digits, year in 4 digits	Month/Day/Year
4	WATERSHED	The official watershed name as provided by City GIS layer.	Text	Exact	Provided by City GIS. Leave blank if new outfall or not in City GIS.
5	CREEK_NAME	The official creek name as provided by City GIS layer.	Text	Exact	Provided by City Eng. Leave blank if new outfall or not in City GIS.
6	SILTATION_LEVEL	The field is the measured average depth of silt, dirt, and/or debris observed in the conveyance end section.	Numeric	Average to nearest inch	Numeric as field measured. "Unknown" if can't be measured
7	EROSION_LEVEL	None means no erosion is observed; Minor means some erosion is present but not significant; erosion depth below the conveyance flow line is less than 6 inches with no undermining of any structural element observed; Severe means erosion has reached an extent to begin to undermine the structure and create slope failure potential with eroded slopes steeper than 2 to 1 and eroded depths exceeding 6 inches at the conveyance end but significant structure displacement or failure is not observed and structure is functioning as intended without significant impairment. Severe is also used to inventory an outfall without a headwall regardless of the erosion condition; Failed means erosion has reached a point that the conveyance structure or existing city facilities are undermined and failure or significant displacement is threatened or observed or earth slopes have failed with slide evidence observed in the channel bottom or top of channel slope near the conveyance point; Unknown means can not be determined in the field. Entry required in Issues field	Text	Exact	None, Minor, Severe, Failed, and Unknown
8	VEG_LEVEL	None means that no unusual vegetation growth present. Slight means that some overgrowth present but not yet compromising structure. Moderate means that that growth present to point that conveyance may be compromised, or that structural or erosion damage eventually possible. Severe means that growth to point that conveyance is hindered, or that structural or erosion damage imminent. Unknown means cannot be determined: document in notes.	Text	Exact	None, Slight, Moderate, Severe, Unknown
9	COMMENTS	This field allows the inspector to record additional observed features or conditions observed at the conveyance point not included in the inventory items. Structural condition in poor or failed condition, erosion level in Severe or failed levels, any issues or action inventoried or any Environmental issues inventoried requires qualifying comments justifying the inventory selection. Limit comments to no more than 254 characters.	Text	Exact	Observed features and conditions. Comments should always be provided when the issue or action fields are inventoried other than inventoried none to clarify and justify the assessment.
10	MAP_NUMBER	Map number assigned by Engineering staff based on a map breakdown of the watersheds and determined by Halff Associates.	Numeric	Exact	Populated by consultant per the City GIS data.
11	STATUS	Outfall status classification as active for existing system, Under Const for system under construction or Propose for proposed systems not built or under construction	Text	Exact	Assigned by GIS
12	SUBMITTED_TO_ENV	Date that GIS staff submits to the Environmental Services Department the surveyed outfall point	Month/Day/Year	Month in 2 digits, day in 2	Populated by APAI
13	STRUCTURE_TYPE	Defines the cross section shape of the end of the conveyance at outfall where Flume is a paved Channel Conveyance, Pipe is a circular shape conduit conveyance, Box is a rectangular shape conduit, and Weir is an overflow structure that has a vertical plate with a crest mounted perpendicular to the direction of conveyance.	Text	Exact	BOX: BOX, FLUME: FLUME, OTHER: OTHER, WEIR: WEIR, PIPE: PIPE

ATTACHMENT A.6 ATTRIBUTE DESCRIPTIONS

#	Field Label	Field Definition	Unit of Measure	Precision	Acceptable Selections
14	OWNER	Documents the official owner and maintainer of the structure, as provided and verified by the City.	Text	Exact	CITY: CITY, MANSFIELD: MANSFIELD, HOA: HOA, FEDERAL: FEDERAL, ARLINGTON: ARLINGTON, IRVING: IRVING, PRIVATE: PRIVATE, COUNTY: COUNTY, TXDOT: TXDOT, DALLAS: DALLAS, ISD: ISD, RAILROAD: RAILROAD
15	FUNCTIONS	Defines the function of the point being inventoried as to whether it is the conveyance entrance or the conveyance discharge point.	Text	Exact	OUTFALL: OUTFALL, INTAKE: INTAKE
16	ISSUES	This field is only for cases when a complete inventory of condition and conduit fields can't be made due to certain situations. Acceptable entries are Submerged means the conveyance point is submerged under water sufficiently to not be able to inventory the point; Buried means the conveyance point is buried in earth or debris sufficiently to not be able to inventory the point but field features observed indicates the point exists; Unlocated means the conveyance point cannot be located in the field but field features observed indicates the point exists.	Text	Exact	Submerged, Buried, No Access, or Unlocated
17	INSP_WIDTH_FT	The flume, pipe or box inside end section width	Numeric in decimal of	To nearest tenth of a foot	Numeric as field measured
18	INSP_HEIGHT_FT	Height of flume, pipe or box section measured from invert of opening to top of flume paved slope or curb or inside top of pipe or box opening structure.	Numeric in decimal of	To nearest tenth of a foot	Numeric as field measured
19	IMAGE DATE	Date that the picture was taken; should be stamped on the picture along with the unique outfall ID number.	Month/Day/Year	Month in 2 digits, day in 2 digits, year in 4 digits	Month/Day/Year
20	CONSULTANT	This field documents the name of the consultant performing the condition assessment of the conveyance point.	Text	Exact	Legal Name of Consultant contracted for this inventory required.
21	STRC_COND	Good means structure in fully functioning condition as intended to line and grade with no significant defects such as cracking with separation exceeding 1/4 inch, displacement or separation exceeding 1/2 inch or structural failure present; Fair means structure functioning as intended, but some cracks exceeding 1/4 inch and displacement and/or separation exceeding 1/2 inch; Poor means system function has not been significantly impaired as intended as to line and grade and structural integrity and is still functioning but with significant distresses present such as cracking with separation exceeding 1/4 inch, displacement or separation exceeding 1/2 inch. No structural failure observed; Failed means structure impaired; Unknown means can't be determined in the field. Entry required in issues field.	Text	Exact	Good, Fair, Poor, Failed or Unknown
22	NO_OF_COND	For pipe or box conveyances only, states the number of pipe or box conduits at the outfall point. For flumes enter 1.	Small integer	Exact	Integer

ATTACHMENT A.6 ATTRIBUTE DESCRIPTIONS

#	Field Label	Field Definition	Unit of Measure	Precision	Acceptable Selections
23	IA_ACTION	This field records the need for immediate attention due to Structural Conditions, Erosion level or Vegetation Level. If the structural condition field is inventoried Failed, STR for Structure IA should be inventoried here; if the Erosion level field is inventoried failed or if the siltation level field inventoried exceeds one fourth of the height of the conveyance opening and the erosion level field is inventoried severe, EROS for erosion IA should be inventoried here. If vegetation level is inventoried as severe, VEG for Vegetation IA should be inventoried here. Multiple entries are allowed.	Text	Exact	STR , EROS , VEG , STR EROS , EROS VEG , STR VEG , STR EROS VEG
24	O_ACTION	This field records the need for future attention due to Structural Conditions, Erosion level or Vegetation Level. If the structural condition field is inventoried Poor, STR for Structure O should be inventoried here; if the Erosion level field is inventoried severe or if the siltation level field inventoried exceeds one tenth of the height of the conveyance opening and the erosion level field is inventoried severe, EROS for erosion O should be inventoried here. If vegetation level is inventoried as moderate VEG for Vegetation O should be inventoried here. Multiple entries are allowed.	Text	Exact	STR , EROS , VEG , STR EROS , EROS VEG , STR VEG , STR EROS VEG
25	ENV_COND	This field records any observed discharges from the conveyance during prolonged dry conditions when conditions at the outfall should be dry.	Text	Exact	Dry or Wet
26	ENV_ISSUE	This field documents presence at the outfall point of excessive algae growth observed beyond what is normally present in the creek, discoloration of conveyance structural elements or water (pooled or flowing at conveyance point) observed indicating discharge of fluids other than water with sediment, strange or unusual odors at the conveyance point observed beyond what was normally present in the creek, oil or chemical sheen or surface reflection at the conveyance point observed beyond what is normally present in the creek or trash or garbage at the conveyance point beyond what is normally present in the creek observed	Text	Exact	Algae, Discoloration, Odor, Oil, or Trash
27	INSPECTOR	This field documents the full name of the inspector performing the condition assessment of the conveyance point.	Text	Exact	Full name of inspector required
28	INSPECT_DATE	Date that the listed inspector observed and inventoried the outfall point conditions	Month/Day/Year	Month in 2 digits, day in 2 digits, year in 4 digits	Month/Day/Year
29	Plummer_Image_Link	Server location of all images taken during field observation.	Text	Review field only - not included in GIS schema	Network Path
30	BATCH	Batch by inventory year	Text	Review field only - not included in GIS schema	
31	STRUCTURE_MAT	Material observed during inventory	Text	Review field only - not included in GIS schema	
32	Date Received	Date that the draft inventory was received by the City	Month/Day/Year	Review field only - not included in GIS schema	
33	Date Approved	Date that the draft inventory was approved by the City	Month/Day/Year	Review field only - not included in GIS schema	
34	City Comments	Review comments/questions by the City	Text	Review field only - not included in GIS schema	
35	Plummer Response	Review comments/questions by Plummer	Text	Review field only - not included in GIS schema	

ATTACHMENT A.7 GIS OUTFALL SCHEMA

FIELDS - GIS SCHEMA

Name	Type	Alias	Domain	Editable	Nullable	Length	Precision	Required	Scale
OBJECTID	OID	OBJECTID		FALSE	FALSE		10	TRUE	0
ASSETID	String	Asset ID		TRUE	FALSE	25	0	FALSE	0
STRUCTURE_TYPE	String	Structure Type	DISCHARGE_STRUCTURE_TYPE	TRUE	FALSE	10	0	FALSE	0
FUNCTIONS	String	Functions	DISCHARGE_FUNCTION	TRUE	FALSE	10	0	FALSE	0
WATERSHED	String	Watershed	SD_WATERSHED	TRUE	TRUE	30	0	FALSE	0
STATUS	String	Status	GENERIC_STATUS	TRUE	FALSE	20	0	FALSE	0
OWNER	String	Owner	DISCHARGE_OWNER	TRUE	TRUE	15	0	FALSE	0
WIDTH_FT	Double	Width_ft		TRUE	TRUE		10	FALSE	2
HEIGHT_FT	Double	Height_ft		TRUE	TRUE		10	FALSE	2
DOC_LINK	String	Document Link		TRUE	TRUE	50	0	FALSE	0
SHAPE	Geometry	SHAPE		TRUE	TRUE		0	FALSE	0
LAST_UPDATE	Date	Last Update		TRUE	TRUE		0	FALSE	0
INSP_DATE	Date	Date Inspected		TRUE	TRUE		0	FALSE	0
CREEK_NAME	String	Creek Name		TRUE	TRUE	30	0	FALSE	0
SILTATION_LEVEL	Double	Siltation Level		TRUE	TRUE		8	FALSE	2
EROSION_LEVEL	String	Erosion Level		TRUE	TRUE	30	0	FALSE	0
VEG_LEVEL	String	Vegetation Level		TRUE	TRUE	15	0	FALSE	0
COMMENTS	String	Comments		TRUE	TRUE	255	0	FALSE	0
MAP_NUMBER	Long	MAP_NUMBER		TRUE	TRUE		10	FALSE	0
SUBMITTED_TO_ENV	Date	Date Submitted to Envir		TRUE	TRUE		0	FALSE	0
ISSUES	String	Issues		TRUE	TRUE	30	0	FALSE	0
IMAGE_DATE	Date	Image Date		TRUE	TRUE		0	FALSE	0
CONSULTANT	String	Consultant		TRUE	TRUE	50	0	FALSE	0
STRC_COND	String	Structure Condition		TRUE	TRUE	50	0	FALSE	0
NO_OF_CONDUITS	Short	Number of Conduits		TRUE	TRUE		5	FALSE	0
ENV_COND	String	Environmental Condition		TRUE	TRUE	10	0	FALSE	0
ENV_ISSUE	String	Environmental Issue		TRUE	TRUE	20	0	FALSE	0
INSPECTOR	String	Inspector		TRUE	TRUE	20	0	FALSE	0
IA_ACTION	String	IA Action		TRUE	TRUE	25	0	FALSE	0
O_ACTION	String	O Actions		TRUE	TRUE	25	0	FALSE	0

DOMAINS - GIS SCHEMA

Domain	Domain Type	Range	Field Type	Coded Values	Merge Policy	Split Policy
DISCHARGE_STRUCTURE_TYPE	CodedValue	None	Text	BOX: BOX, FLUME: FLUME, OTHER: OTHER, WEIR: WEIR, PIPE: PIPE	DefaultValue	DefaultValue
DISCHARGE_FUNCTION	CodedValue	None	Text	OUTFALL: OUTFALL, UNKNOWN: UNKNOWN, INTAKE: INTAKE	DefaultValue	DefaultValue
SD_WATERSHED	CodedValue	None	Text	DALWORTH: DALWORTH, CEDAR CREEK: CEDAR CREEK, JOHNSON: JOHNSON, GOPHER TURNER: GOPHER TURNER, MOUNTAIN CREEK LAKE AREA: MOUNTAIN CREEK LAKE AREA, BEAR CREEK DRY BRANCH: BEAR CREEK DRY BRANCH, WEST FORK TRINITY: WEST FORK TRINITY, FISH CREEK: FISH CREEK, COTTONWOOD: COTTONWOOD, UNKNOWN: UNKNOWN, JOE POOL: JOE POOL, ALSPAUGH: ALSPAUGH, MOUNTAIN CREEK: MOUNTAIN CREEK	DefaultValue	DefaultValue
GENERIC_STATUS	CodedValue	None	Text	ACTIVE: ACTIVE, REMOVED: REMOVED, ABANDONED: ABANDONED, UNDER CONSTRUCTION: UNDER CONSTRUCTION	DefaultValue	DefaultValue
DISCHARGE_OWNER	CodedValue	None	Text	MANSFIELD: MANSFIELD, HOA: HOA, FEDERAL: FEDERAL, ARLINGTON: ARLINGTON, GRAND PRAIRIE: GRAND PRAIRIE, IRVING: IRVING, PRIVATE: PRIVATE, COUNTY: COUNTY, TXDOT: TXDOT, UNKNOWN: UNKNOWN, DALLAS: DALLAS, ISD: ISD	DefaultValue	DefaultValue



Example Photos



Photo 1: Area view of the structure



Photo 2: Side view of the structure



Photo 3: Downstream view of the structure and apron



Photo 4: Downstream view of the channel that receives flow from structure



Photo 5: Upstream view of structure (include headwall, side slopes and apron)



Photo 6: Focused upstream view of structure



Photo 7: Any additional photos to support inspection (example, loose baffle block)