

APPENDIX F: PROPOSED STORAGE AND CAPACITY IMPROVEMENTS



LEGEND

- Open Channel
- Storm Sewer
- Replace 6' x 40' Span w/ 6' x 45' Span
- Upsize 6' x 30' OCC to 6' x 40' OCC

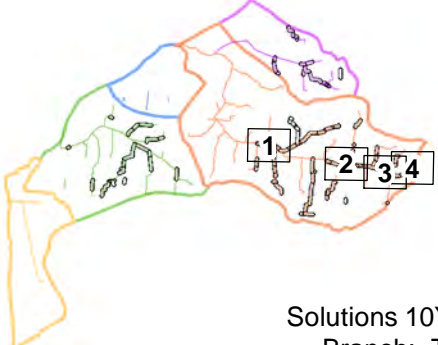
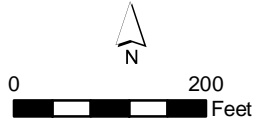
Upsize 6' x 30' OCC to 6' x 40' OCC
1484 LF

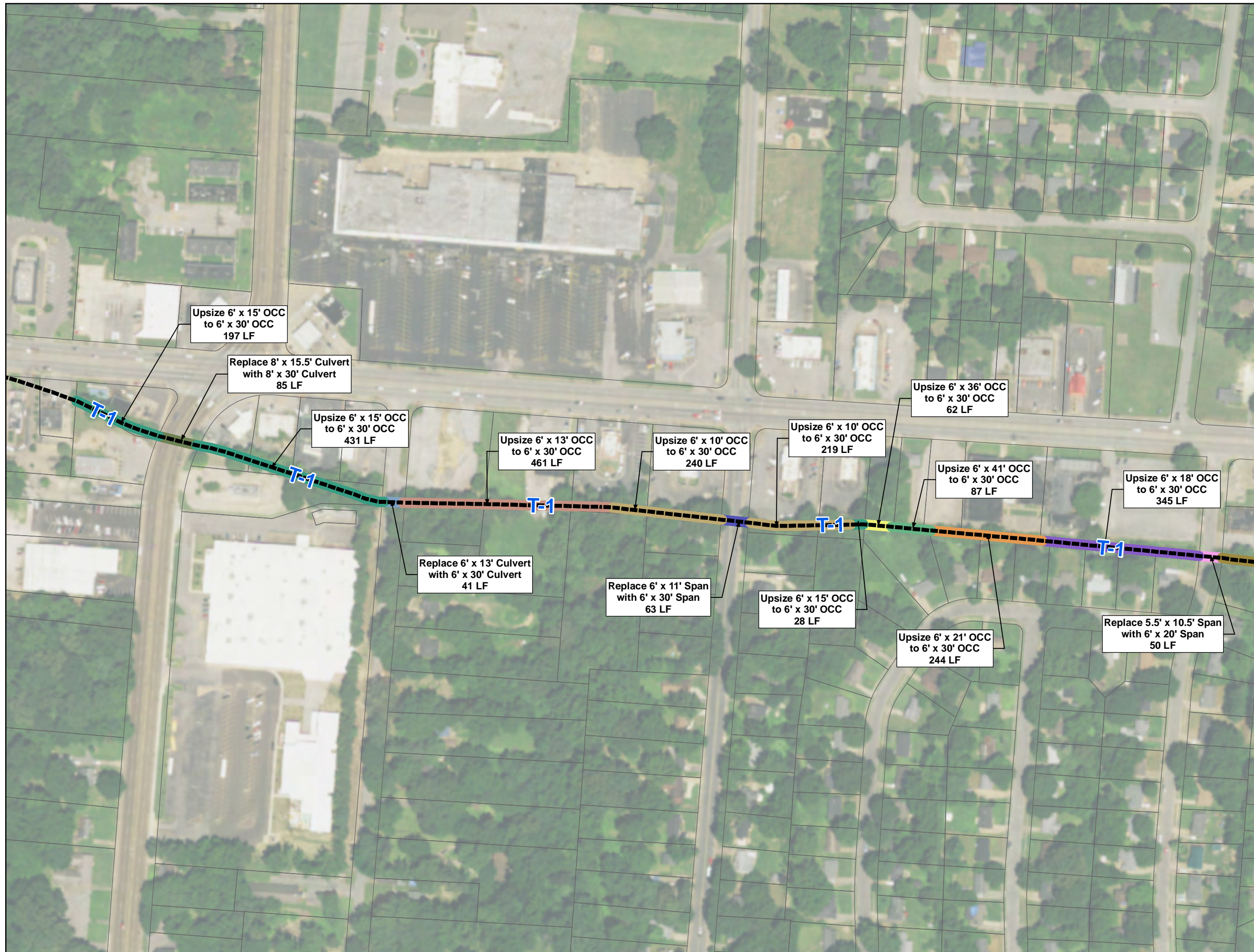
Replace 6' x 40' Span with 6' x 45' Span
45 LF

SOLUTIONS
10 YEAR

WATERSHED
Todd Creek

BRANCH
T-1



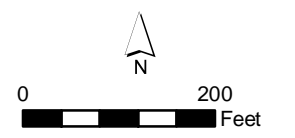


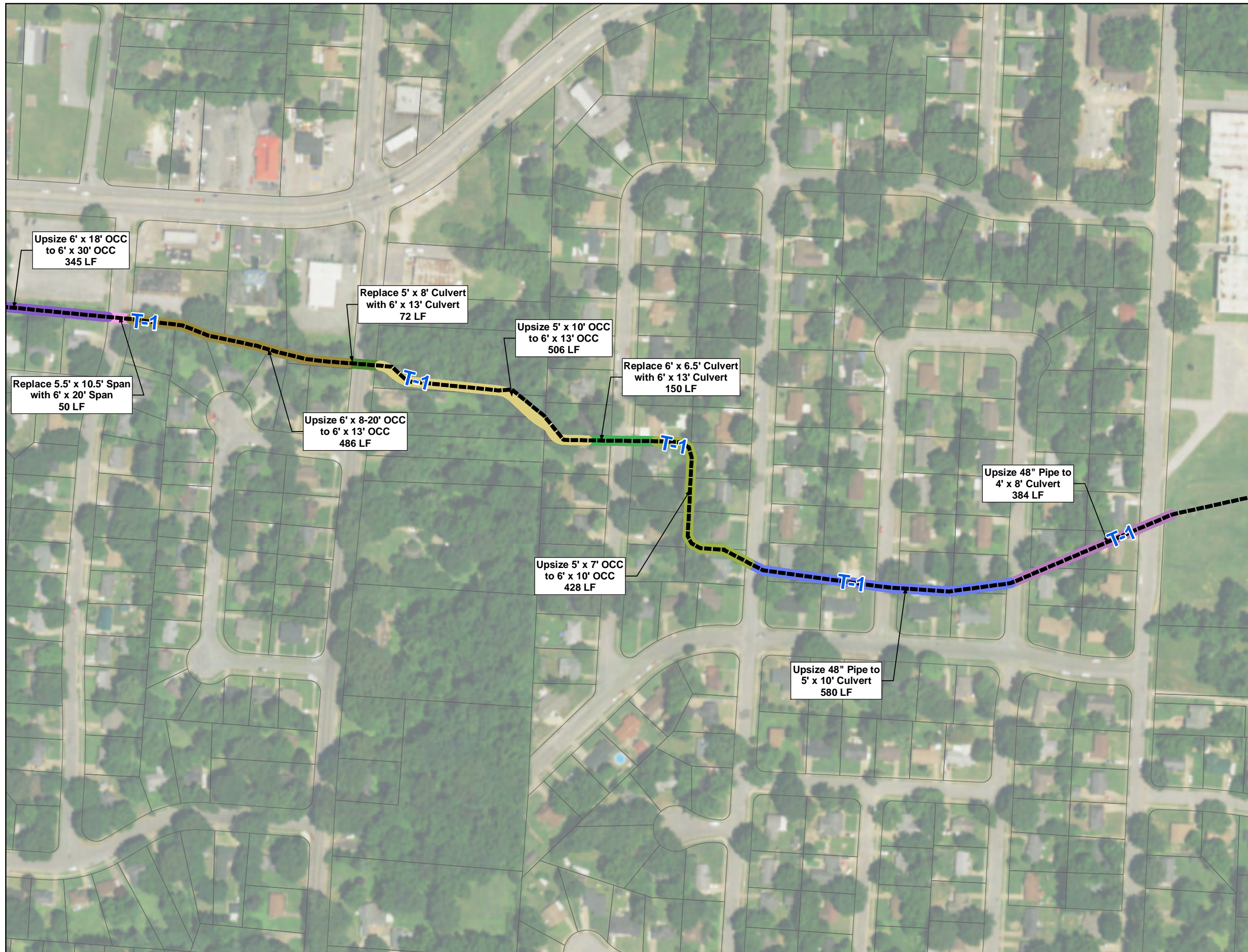
- LEGEND**
- Open Channel
 - - - Storm Sewer
 - Replace 5.5' x 10.5' Span with 6' x 20' Span
 - Replace 6' x 11' Span with 6' x 30' Span
 - Replace 6' x 13' Culvert with 6' x 30' Culvert
 - Replace 8' x 15.5' Culvert with 8' x 30' Culvert
 - Upsize 6' x 10' OCC to 6' x 30' OCC
 - Upsize 6' x 13' OCC to 6' x 30' OCC
 - Upsize 6' x 15' OCC to 6' x 30' OCC
 - Upsize 6' x 18' OCC to 6' x 30' OCC
 - Upsize 6' x 21' OCC to 6' x 30' OCC
 - Upsize 6' x 36' OCC to 6' x 30' OCC
 - Upsize 6' x 41' OCC to 6' x 30' OCC
 - Upsize 6' x 8-20' OCC to 6' x 13' OCC

SOLUTIONS
10 YEAR

WATERSHED
Todd Creek

BRANCH
T-1





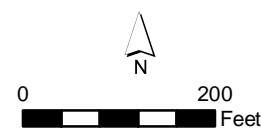
LEGEND

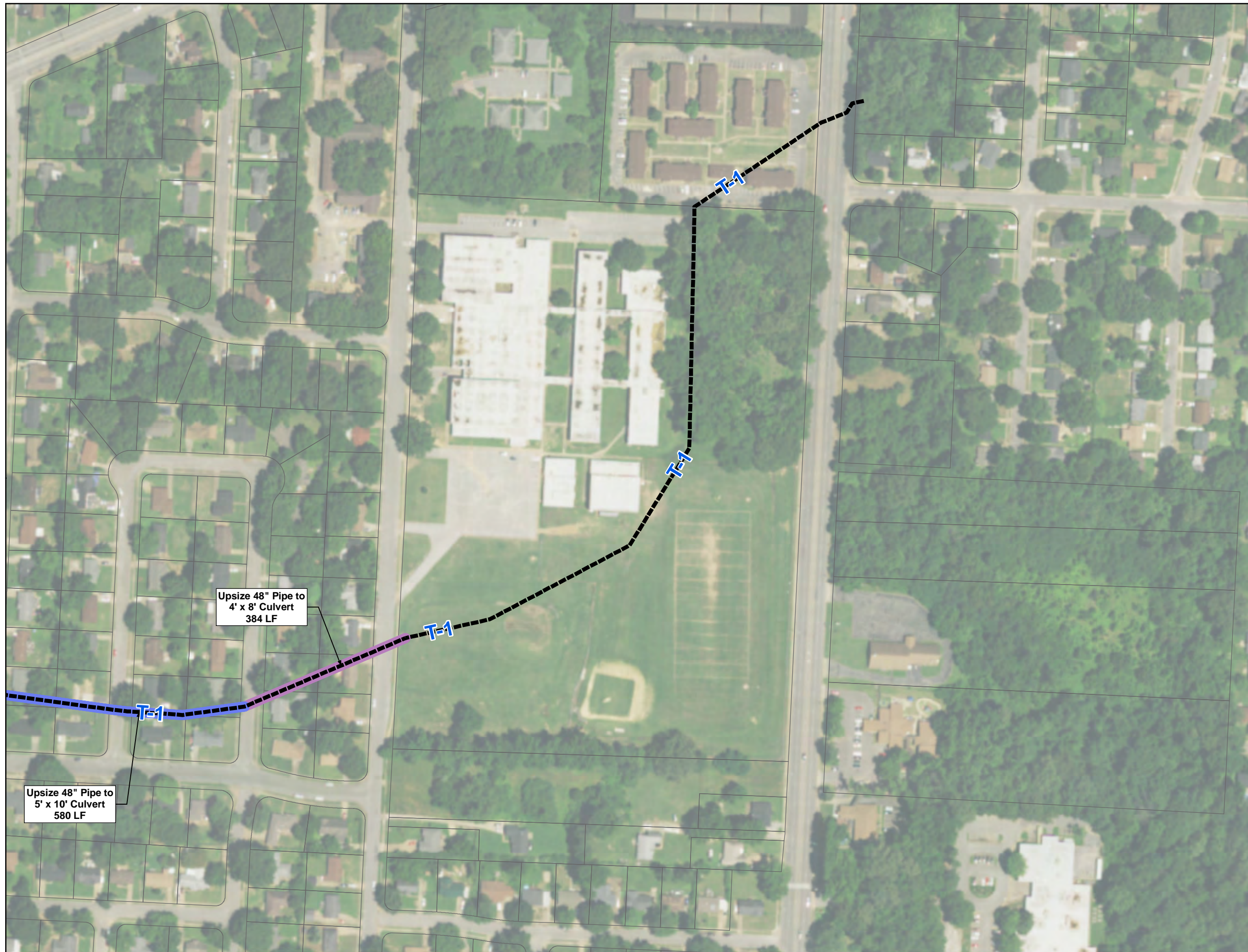
- Open Channel
- Storm Sewer
- Replace 5' x 8' Culvert with 6' x 13' Culvert
- Replace 5.5' x 10.5' Span with 6' x 20' Span
- Replace 6' x 6.5' Culvert with 6' x 13' Culvert
- Upsize 48" Pipe to 4' x 8' Culvert
- Upsize 48" Pipe to 5' x 10' Culvert
- Upsize 5' x 10' OCC to 6' x 13' OCC
- Upsize 5' x 7' OCC to 6' x 10' OCC
- Upsize 6' x 18' OCC to 6' x 30' OCC
- Upsize 6' x 8-20' OCC to 6' x 13' OCC

SOLUTIONS
10 YEAR

WATERSHED
Todd Creek

BRANCH
T-1





Upsize 48" Pipe to
4' x 8' Culvert
384 LF

Upsize 48" Pipe to
5' x 10' Culvert
580 LF

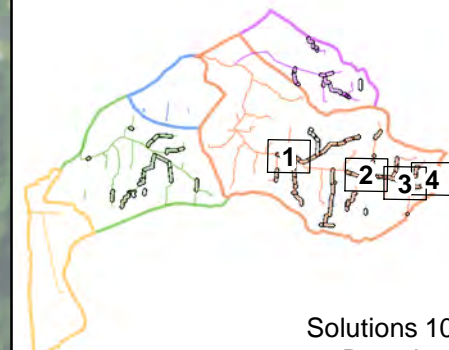
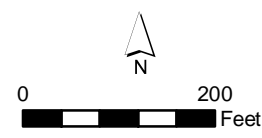
LEGEND

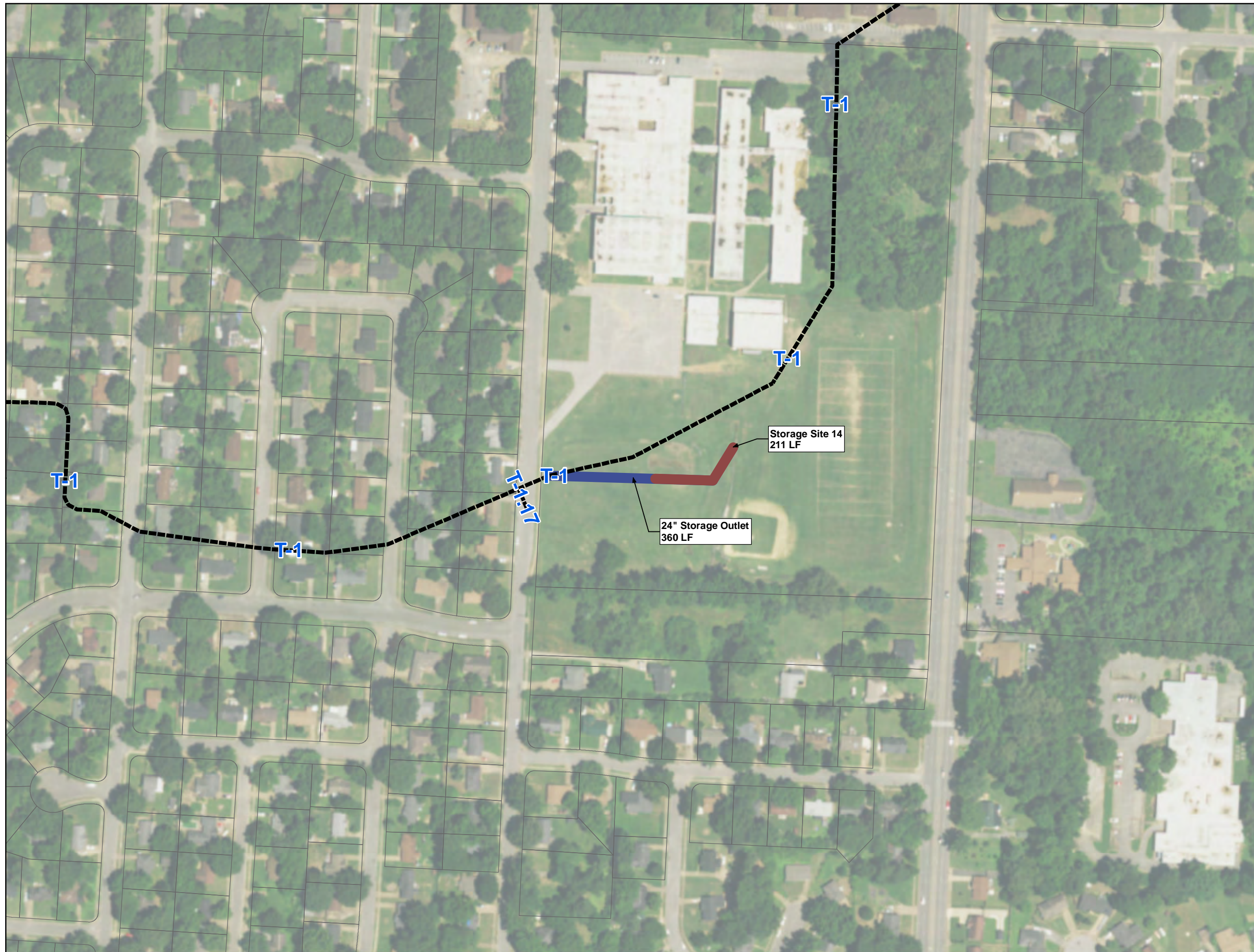
- — — Open Channel
- - - - - Storm Sewer
- — — Upsize 48" Pipe to 4' x 8' Culvert
- — — Upsize 48" Pipe to 5' x 10' Culvert

SOLUTIONS
10 YEAR

WATERSHED
Todd Creek

BRANCH
T-1





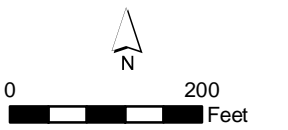
LEGEND

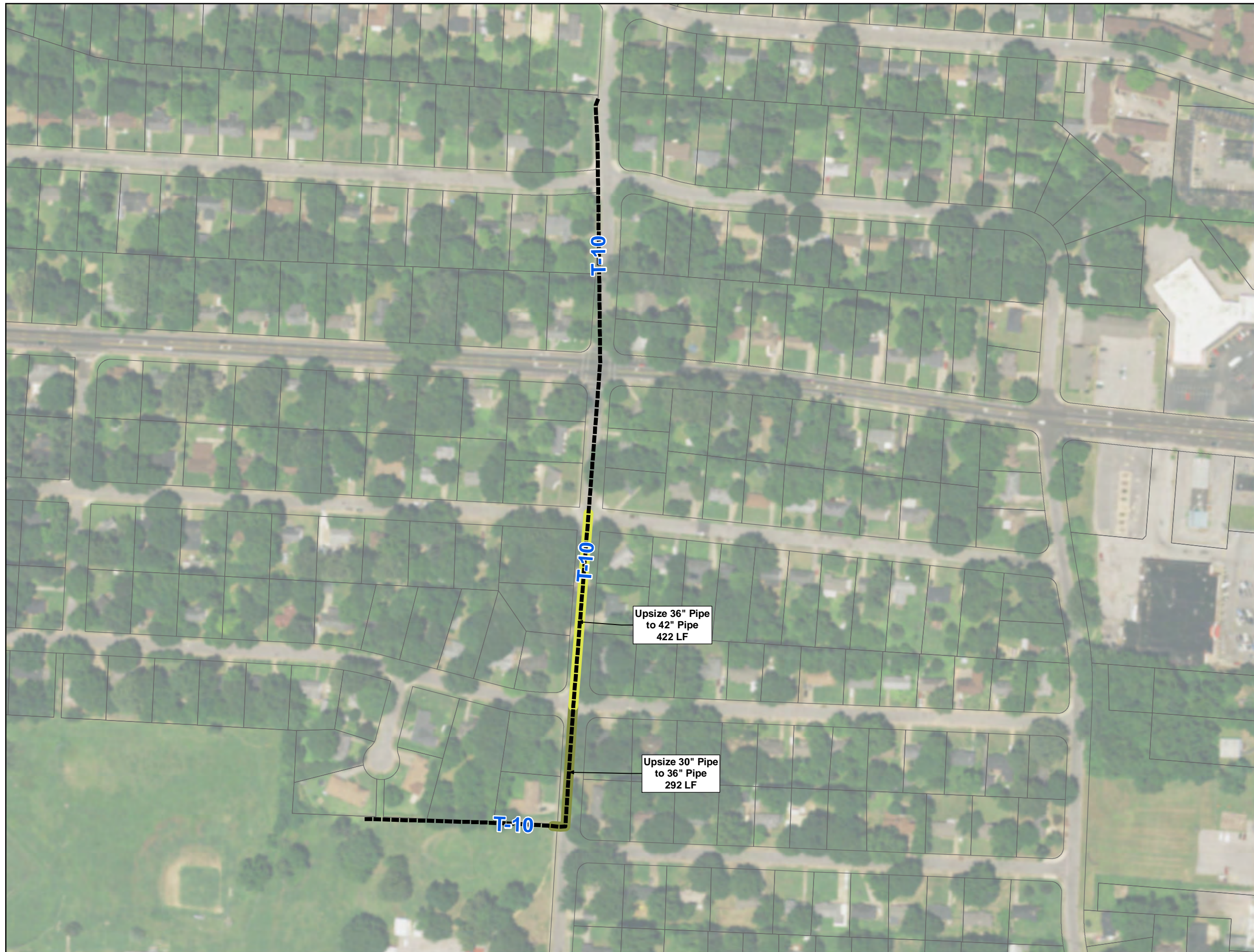
- Open Channel
- Storm Sewer
- 24" Storage Outlet
- Storage Site 14

SOLUTIONS
10 YEAR

WATERSHED
Todd Creek

BRANCH
T-1.17





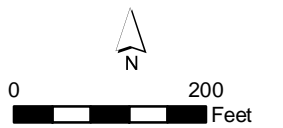
LEGEND

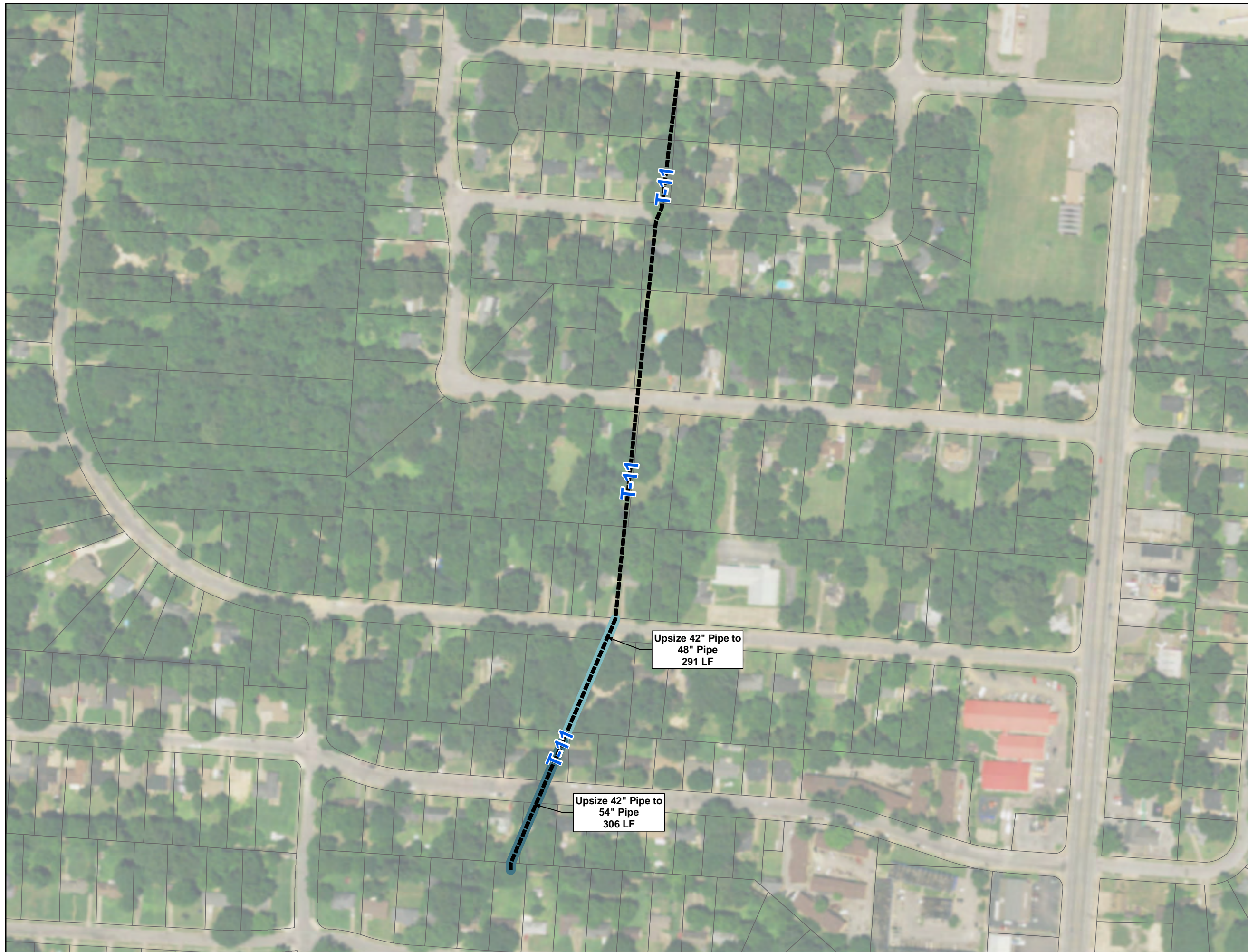
- Open Channel
- Storm Sewer
- Upsize 30" Pipe to 36" Pipe
- Upsize 36" Pipe to 42" Pipe

SOLUTIONS
10 YEAR

WATERSHED
Todd Creek

BRANCH
T-10





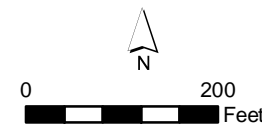
LEGEND

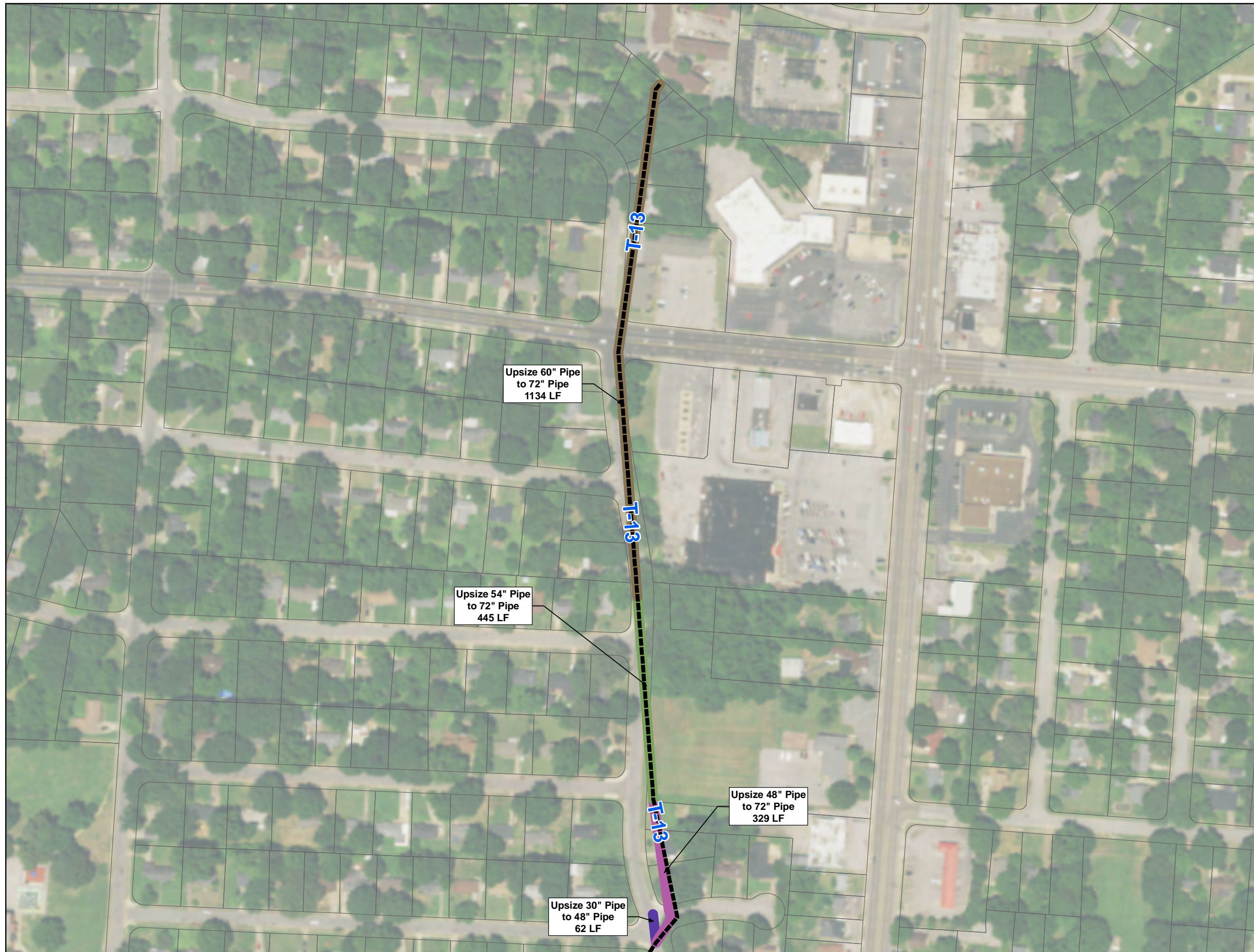
- Open Channel
- Storm Sewer
- Upsize 42" Pipe to 48" Pipe
- Upsize 42" Pipe to 54" Pipe

SOLUTIONS
10 YEAR

WATERSHED
Todd Creek

BRANCH
T-11





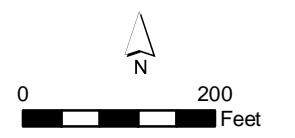
LEGEND

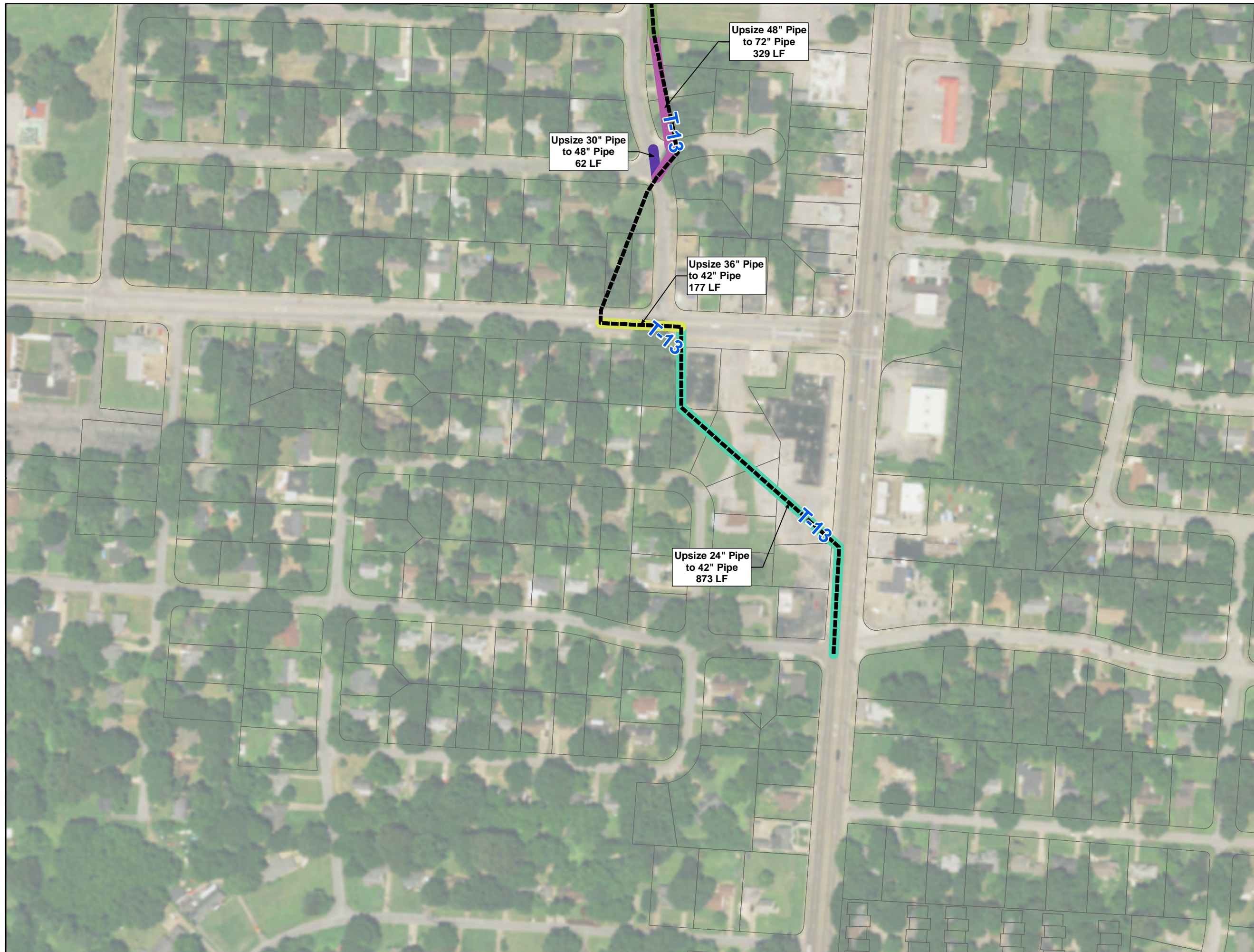
- Open Channel
- - - Storm Sewer
- Upsize 30" Pipe to 48" Pipe
- Upsize 48" Pipe to 72" Pipe
- Upsize 54" Pipe to 72" Pipe
- Upsize 60" Pipe to 72" Pipe

SOLUTIONS
10 YEAR

WATERSHED
Todd Creek

BRANCH
T-13





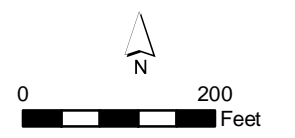
LEGEND

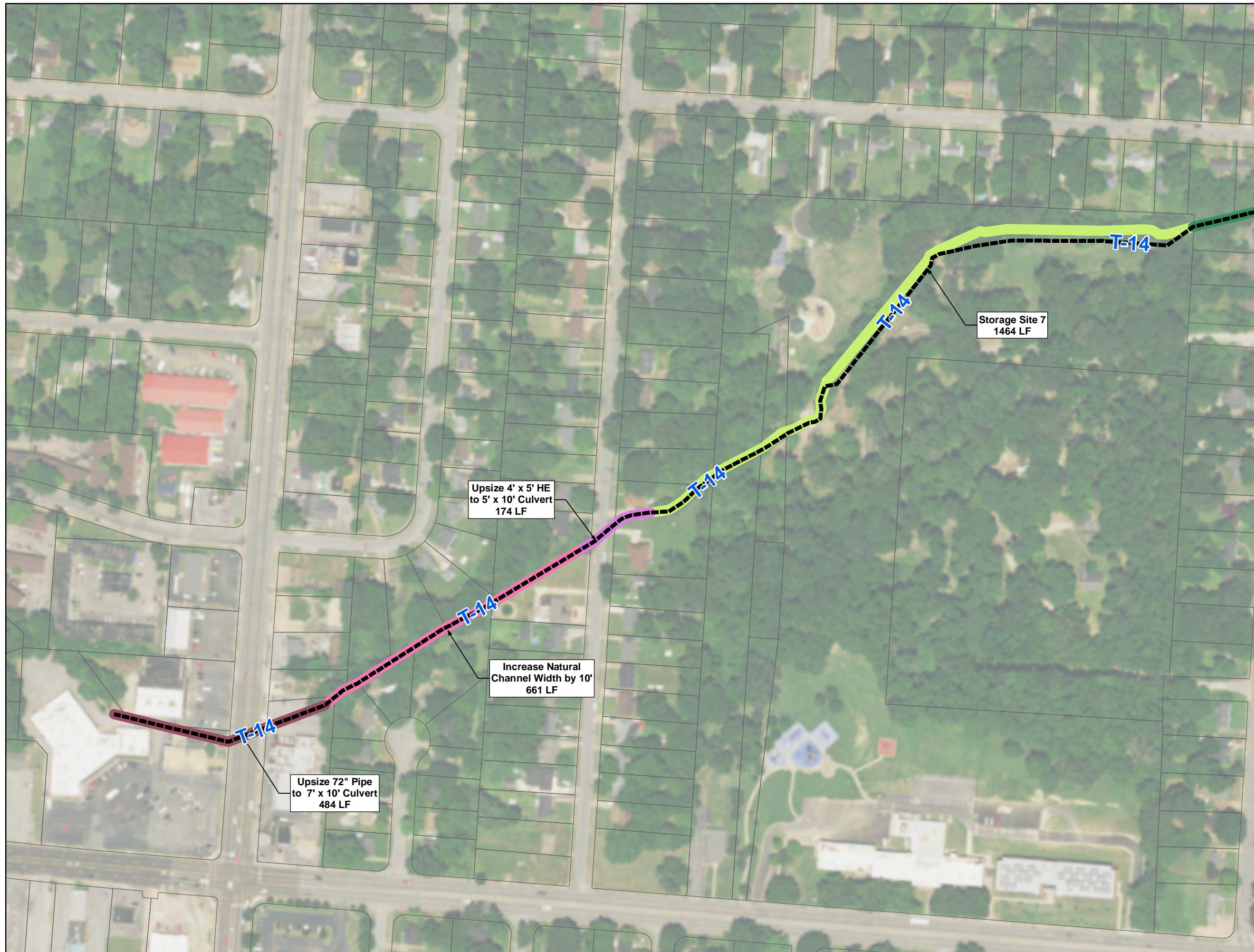
- Open Channel
- Storm Sewer
- Upsize 24" Pipe to 42" Pipe
- Upsize 30" Pipe to 48" Pipe
- Upsize 36" Pipe to 42" Pipe
- Upsize 48" Pipe to 72" Pipe
- Upsize 54" Pipe to 72" Pipe

SOLUTIONS
10 YEAR

WATERSHED
Todd Creek

BRANCH
T-13





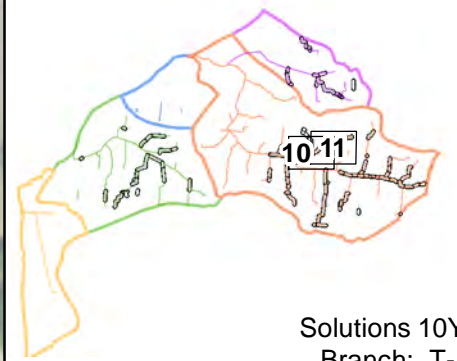
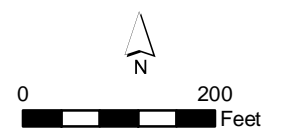
LEGEND

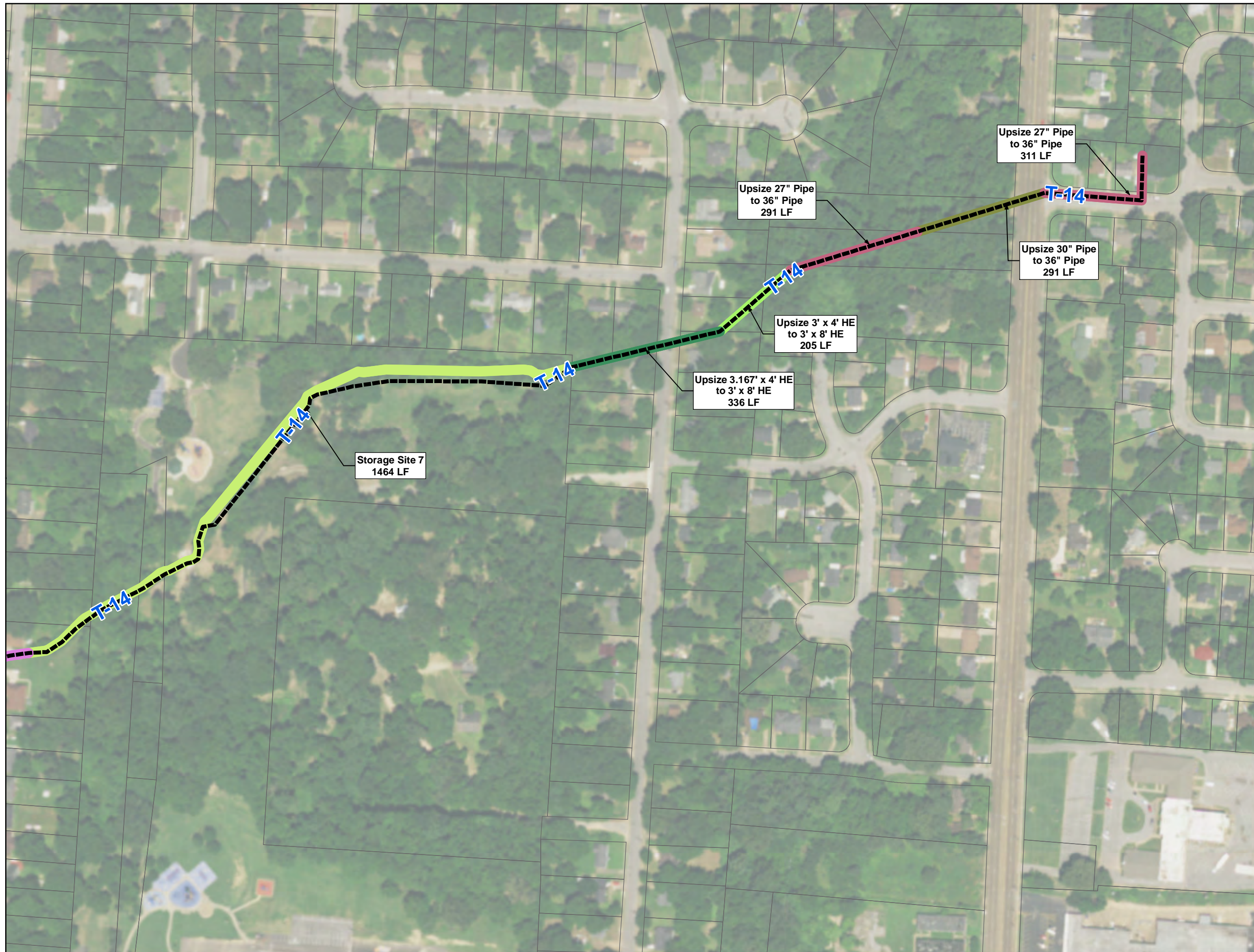
- Open Channel
- - - Storm Sewer
- Increase Natural Channel Width by 10'
- Storage Site 7
- Upsize 3.167' x 4' HE to 3' x 8' HE
- Upsize 4' x 5' HE to 5' x 10' Culvert
- Upsize 72" Pipe to 7' x 10' Culvert

SOLUTIONS
10 YEAR

WATERSHED
Todd Creek

BRANCH
T-14



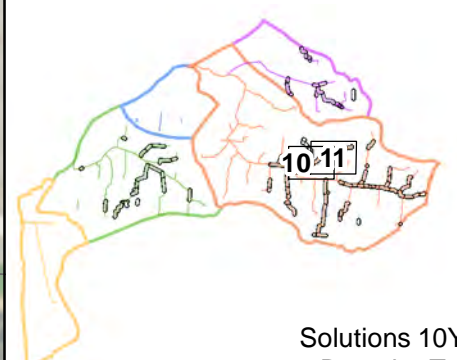
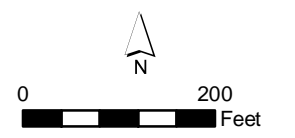


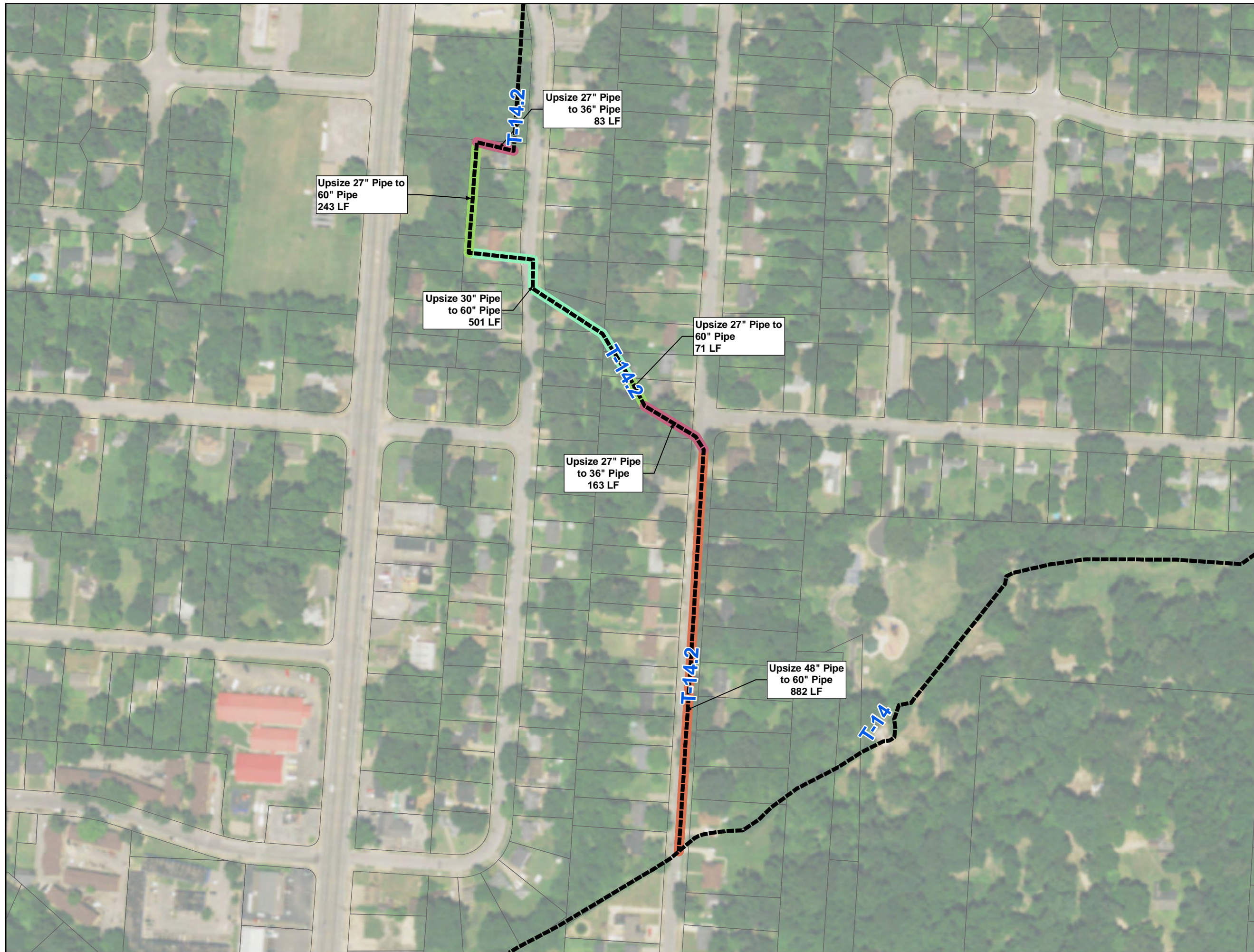
LEGEND	
	Open Channel
	Storm Sewer
	Storage Site 7
	Upsize 27" Pipe to 36" Pipe
	Upsize 3' x 4' HE to 3' x 8' HE
	Upsize 3.167' x 4' HE to 3' x 8' HE
	Upsize 30" Pipe to 36" Pipe
	Upsize 4' x 5' HE to 5' x 10' Culvert

SOLUTIONS
10 YEAR

WATERSHED
Todd Creek

BRANCH
T-14





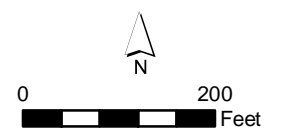
LEGEND

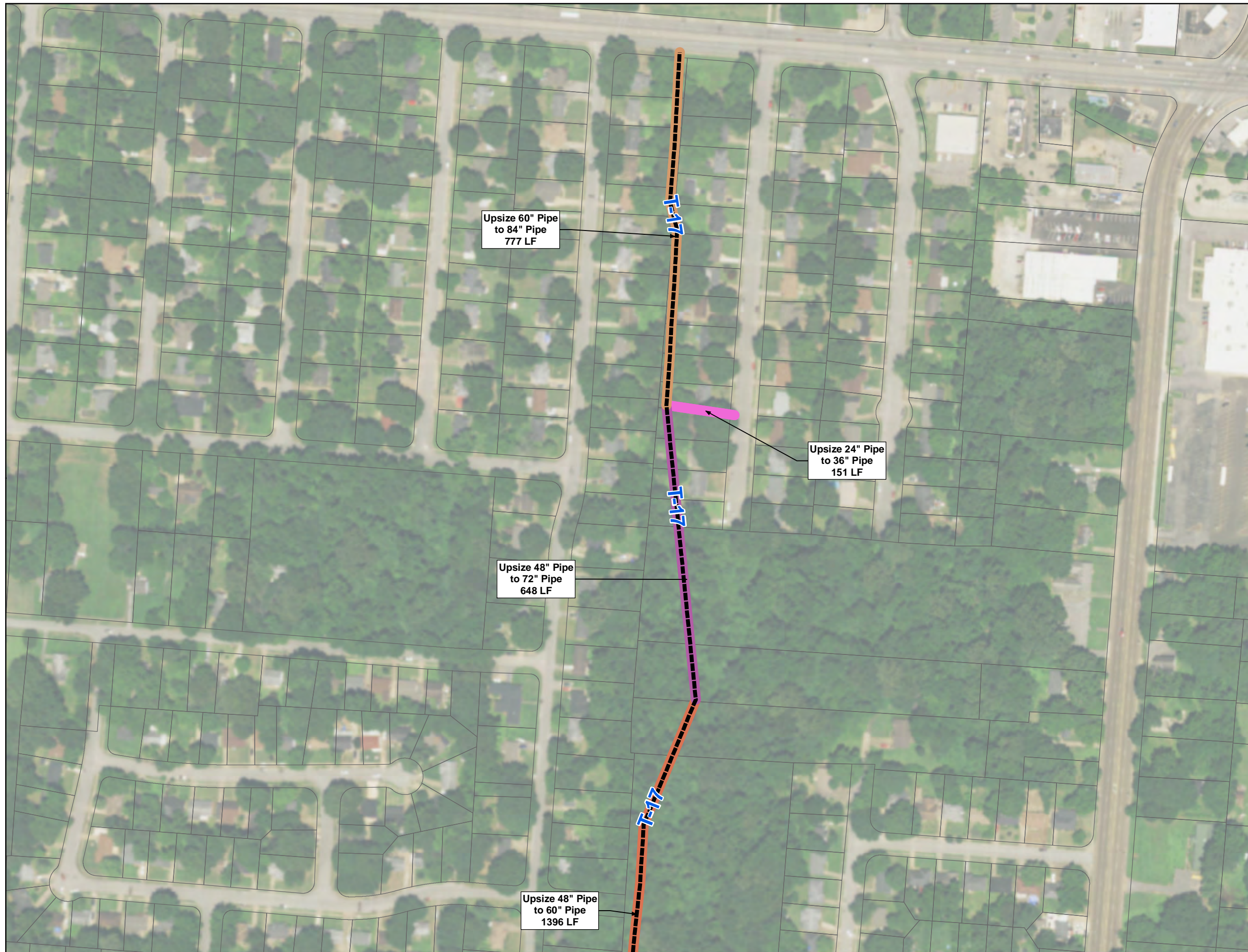
- Open Channel
- Storm Sewer
- Upsize 27" Pipe to 36" Pipe
- Upsize 27" Pipe to 60" Pipe
- Upsize 30" Pipe to 60" Pipe
- Upsize 48" Pipe to 60" Pipe

SOLUTIONS
10 YEAR

WATERSHED
Todd Creek

BRANCH
T-14.2



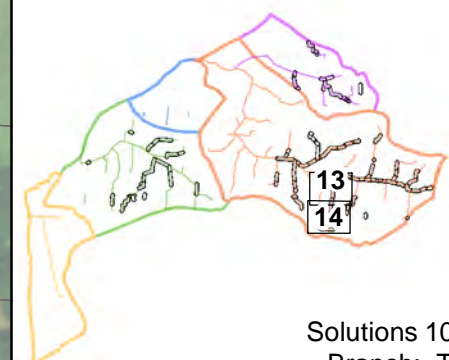
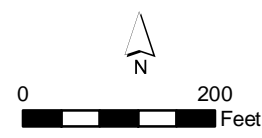


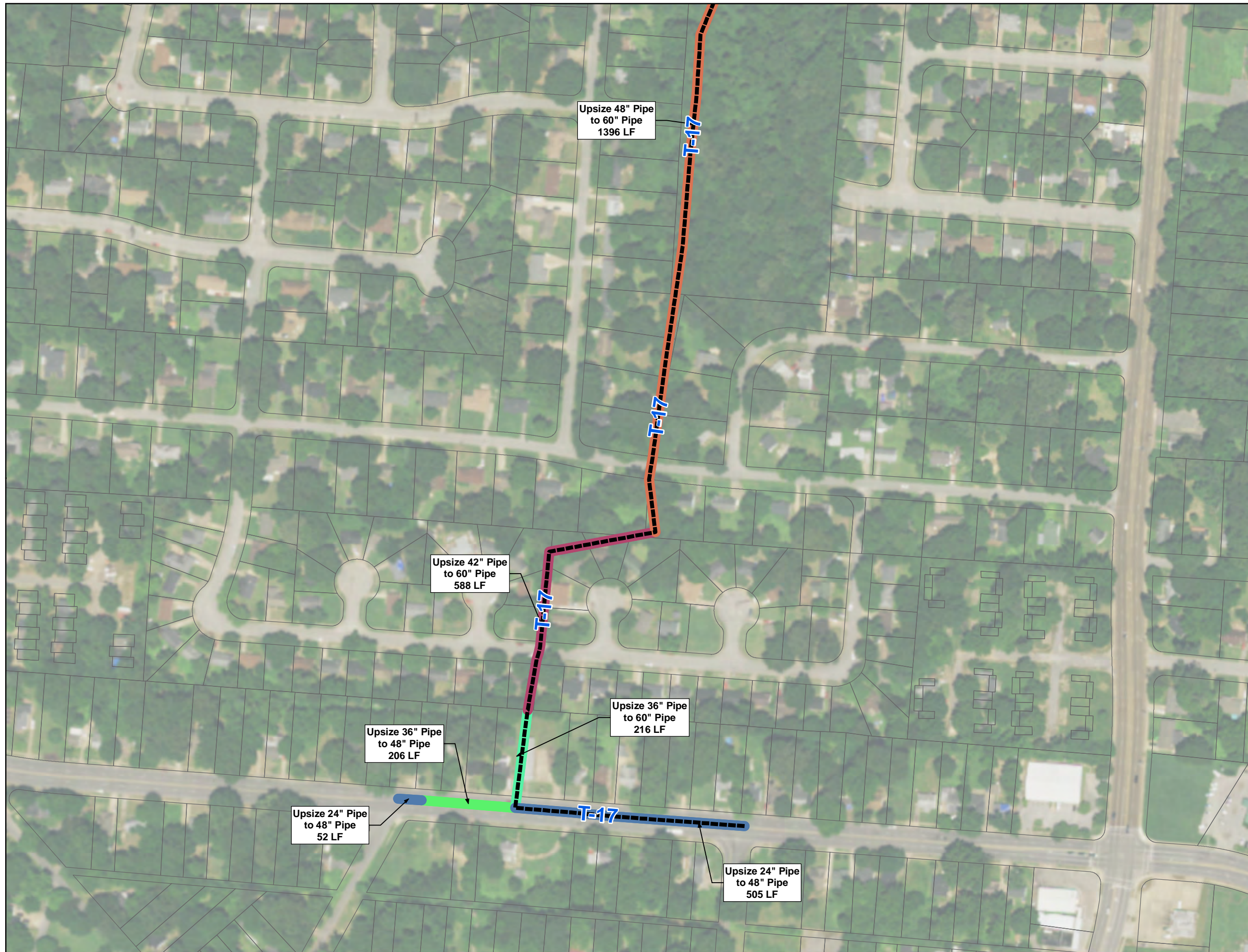
LEGEND	
	Open Channel
	Storm Sewer
	Upsize 24" Pipe to 36" Pipe
	Upsize 48" Pipe to 60" Pipe
	Upsize 48" Pipe to 72" Pipe
	Upsize 60" Pipe to 84" Pipe

SOLUTIONS
10 YEAR

WATERSHED
Todd Creek

BRANCH
T-17





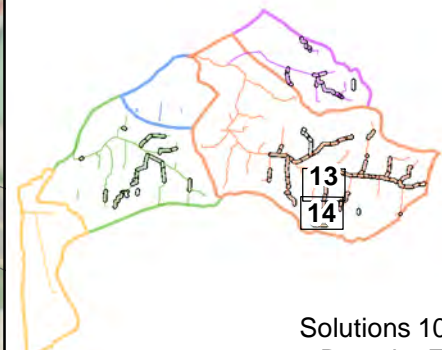
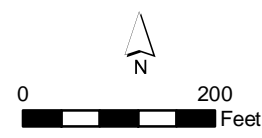
LEGEND

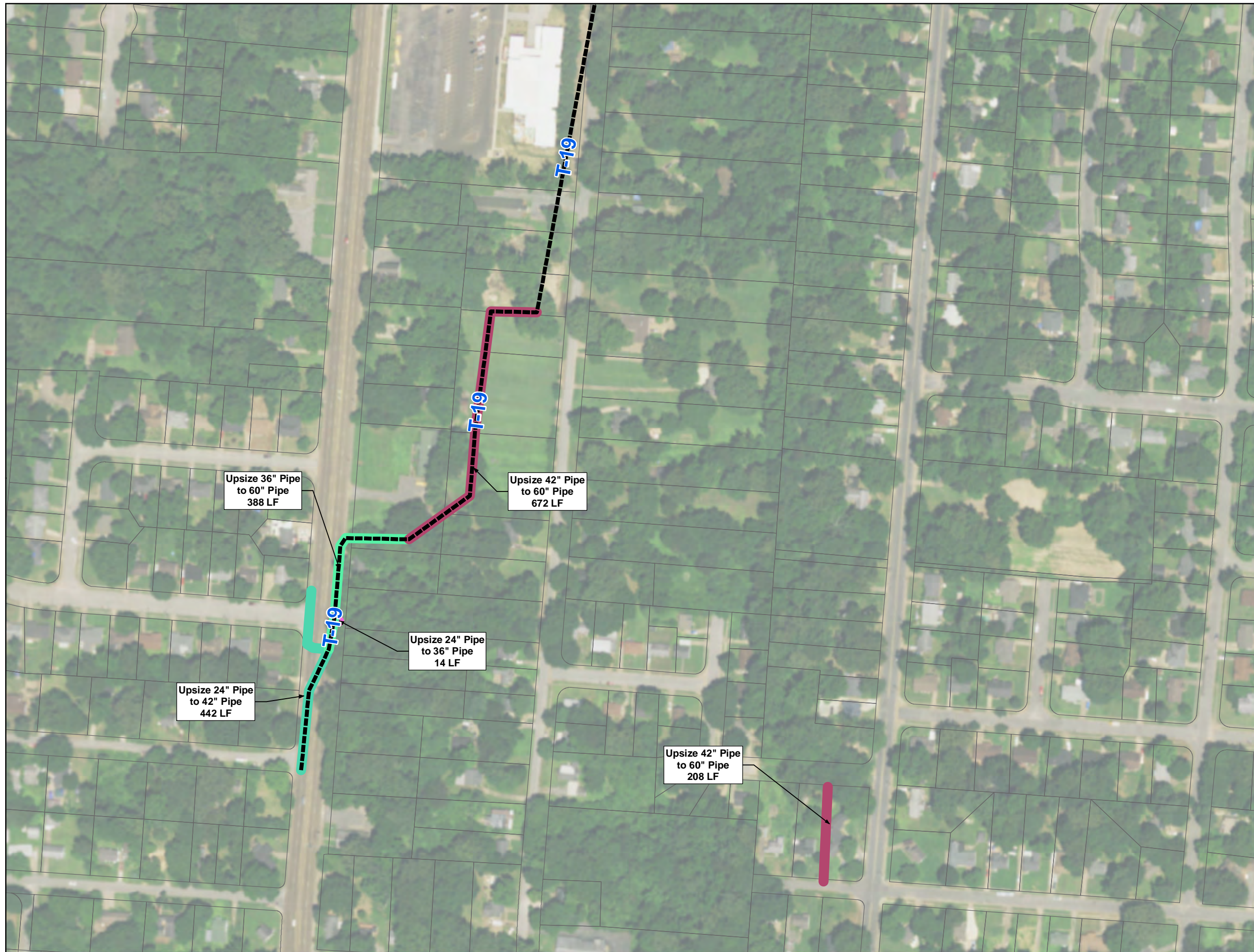
- Open Channel
- - - Storm Sewer
- Upsize 24" Pipe to 48" Pipe
- Upsize 36" Pipe to 48" Pipe
- Upsize 36" Pipe to 60" Pipe
- Upsize 42" Pipe to 60" Pipe
- Upsize 48" Pipe to 60" Pipe

SOLUTIONS
10 YEAR

WATERSHED
Todd Creek

BRANCH
T-17





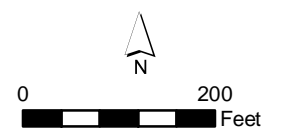
LEGEND

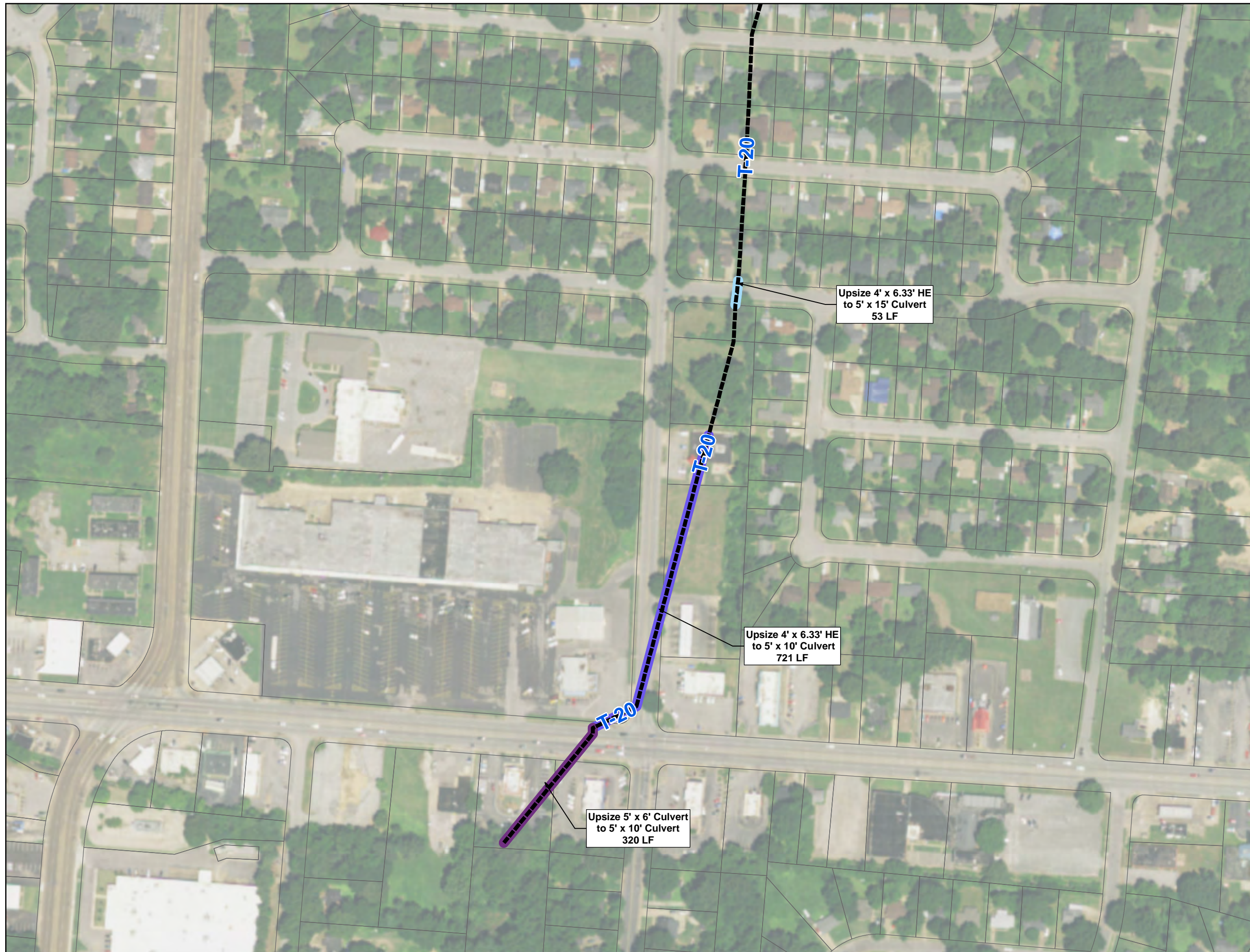
- Open Channel
- Storm Sewer
- Upsize 24" Pipe to 36" Pipe
- Upsize 24" Pipe to 42" Pipe
- Upsize 36" Pipe to 60" Pipe
- Upsize 42" Pipe to 60" Pipe

SOLUTIONS
10 YEAR

WATERSHED
Todd Creek

BRANCH
T-19





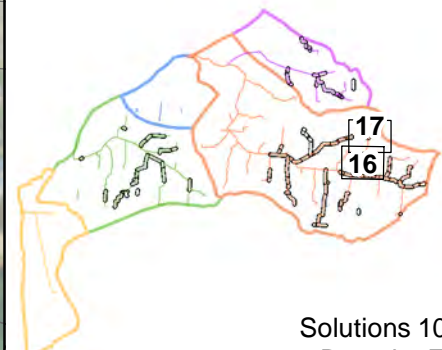
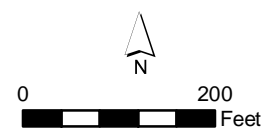
LEGEND

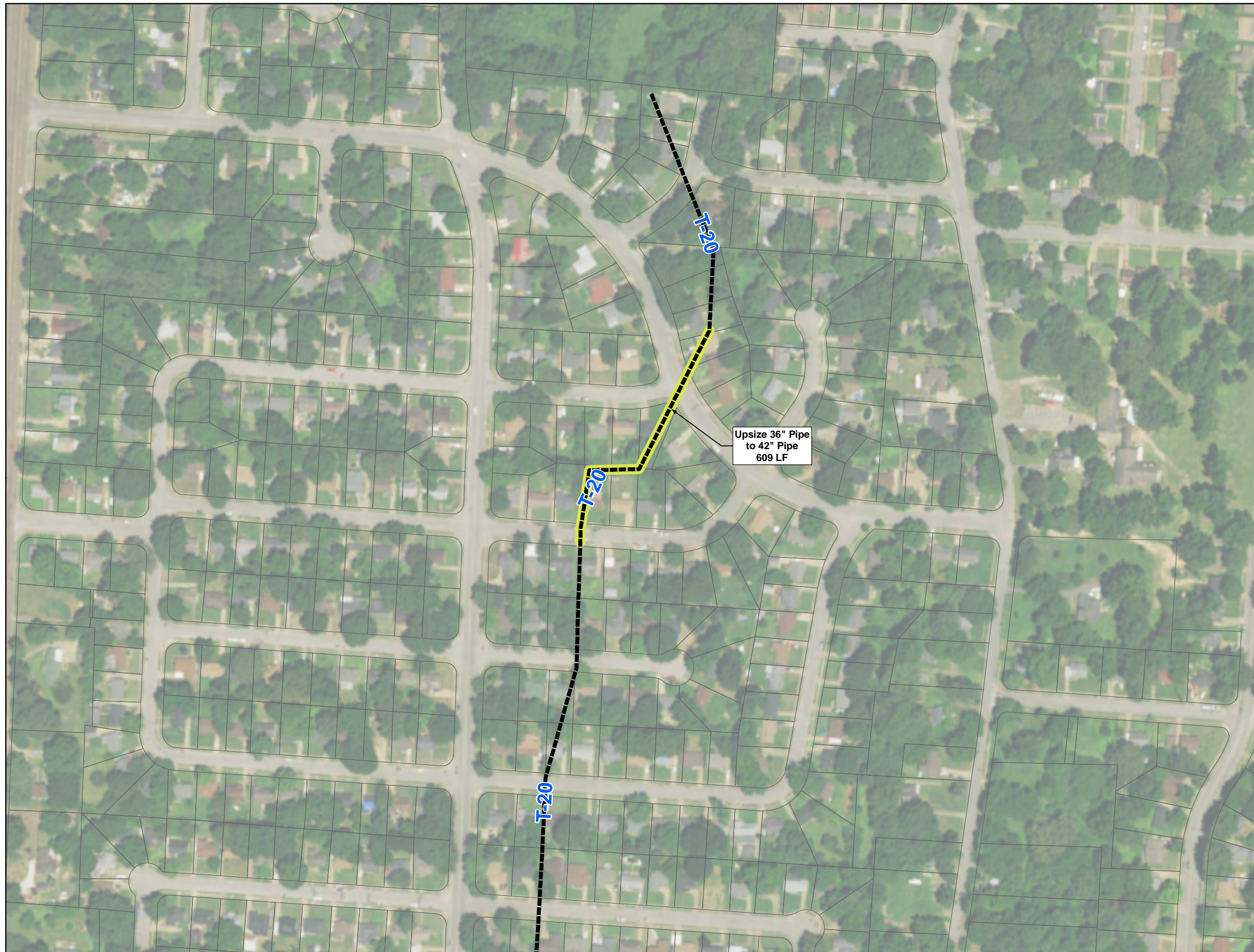
- Open Channel
- Storm Sewer
- Upsize 4' x 6.33' HE to 5' x 10' Culvert
- Upsize 4' x 6.33' HE to 5' x 15' Culvert
- Upsize 5' x 6' Culvert to 5' x 10' Culvert

SOLUTIONS
10 YEAR

WATERSHED
Todd Creek

BRANCH
T-20





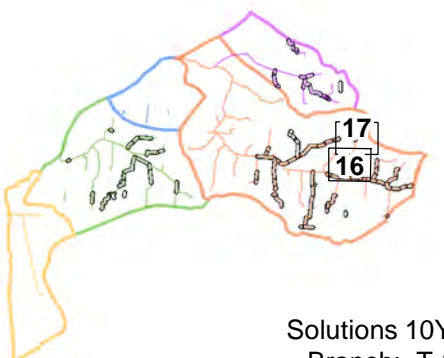
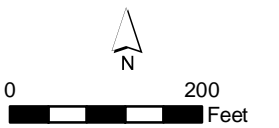
LEGEND

- Open Channel
- Storm Sewer
- Upsize 36" Pipe to 42" Pipe

SOLUTIONS
10 YEAR

WATERSHED
Todd Creek

BRANCH
T-20





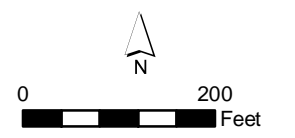
LEGEND

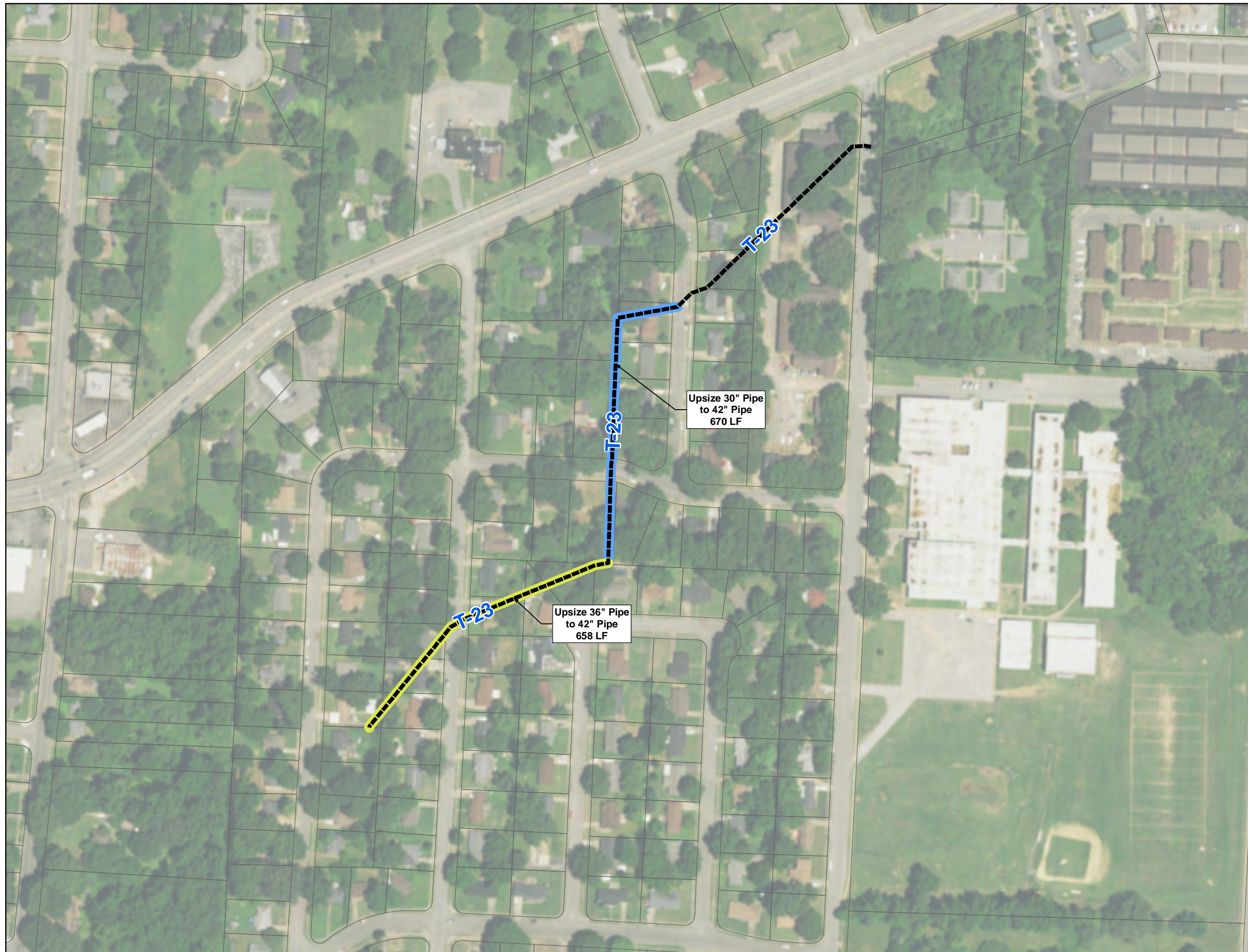
- Open Channel
- Storm Sewer
- Upsize 36" Pipe to 60" Pipe
- Upsize 48" Pipe to 60" Pipe
- Upsize 54" Pipe to 60" Pipe

SOLUTIONS
10 YEAR

WATERSHED
Todd Creek

BRANCH
T-22





LEGEND

- Open Channel
- Storm Sewer
- Upsize 30" Pipe to 42" Pipe
- Upsize 36" Pipe to 42" Pipe

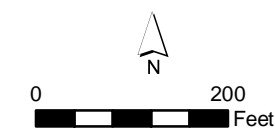
Upsize 30" Pipe
to 42" Pipe
670 LF

Upsize 36" Pipe
to 42" Pipe
658 LF

SOLUTIONS
10 YEAR

WATERSHED
Todd Creek

BRANCH
T-23





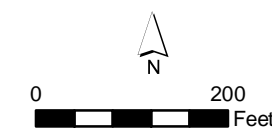
LEGEND

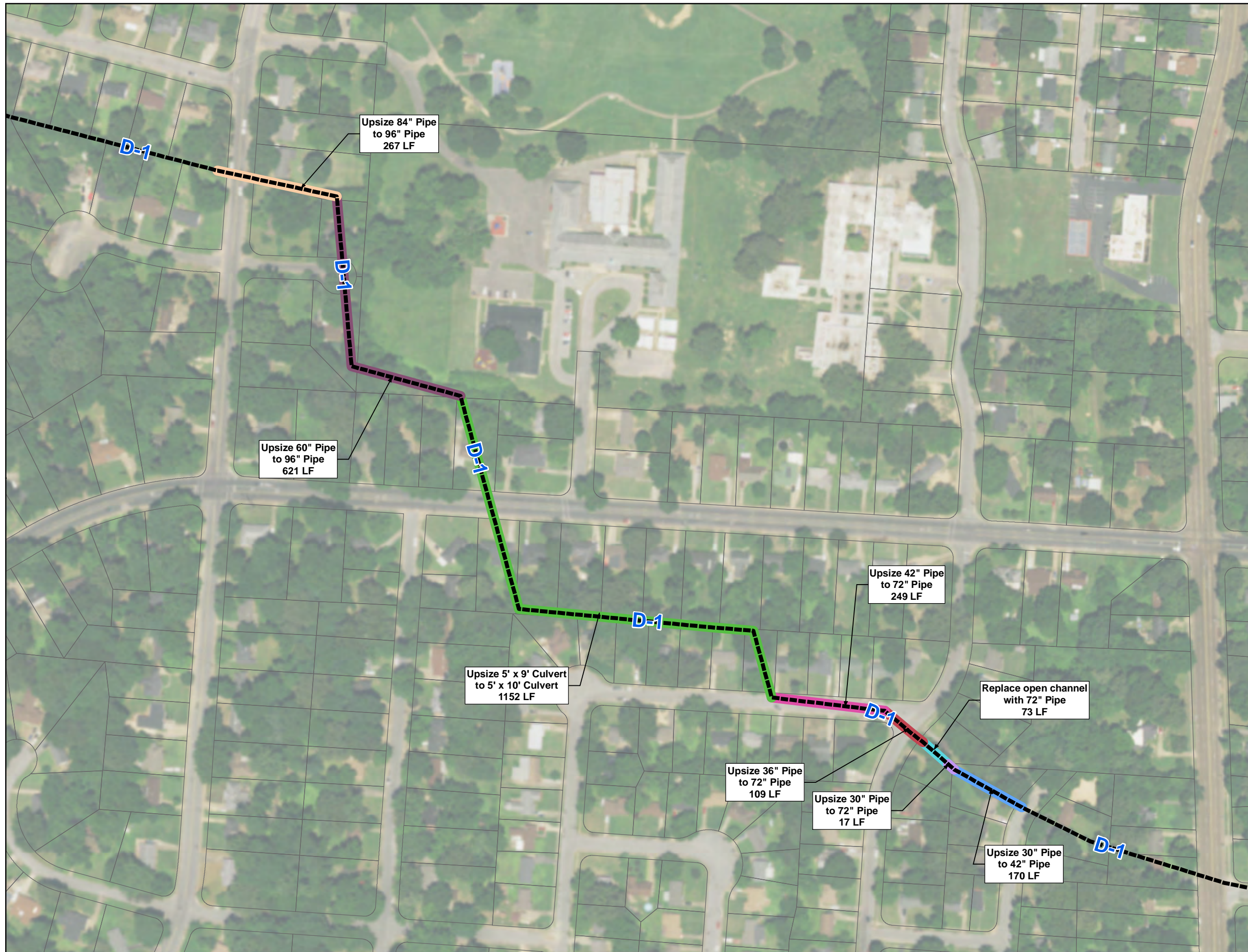
- Open Channel
- Storm Sewer
- Change gradient of Pipe to remove offset

SOLUTIONS
10 YEAR

WATERSHED
Todd Creek

BRANCH
T-24



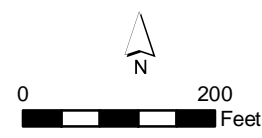


LEGEND	
	Open Channel
	Storm Sewer
	Replace open channel with 72" Pipe
	Upsize 30" Pipe to 42" Pipe
	Upsize 30" Pipe to 72" Pipe
	Upsize 36" Pipe to 72" Pipe
	Upsize 42" Pipe to 72" Pipe
	Upsize 5' x 9' Culvert to 5' x 10' Culvert
	Upsize 60" Pipe to 96" Pipe
	Upsize 84" Pipe to 96" Pipe

SOLUTIONS
10 YEAR

WATERSHED
Denver

BRANCH
D-1





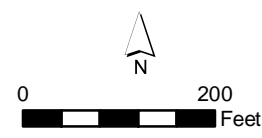
LEGEND

- Open Channel
- Storm Sewer
- Upsize 36" Pipe to 54" Pipe
- Upsize 36" Pipe to 60" Pipe
- Upsize 4' x 5' HE to 4' x 6' HE
- Upsize 42" Pipe to 48" Pipe

SOLUTIONS
10 YEAR

WATERSHED
Denver

BRANCH
D-2





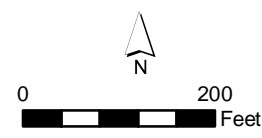
LEGEND

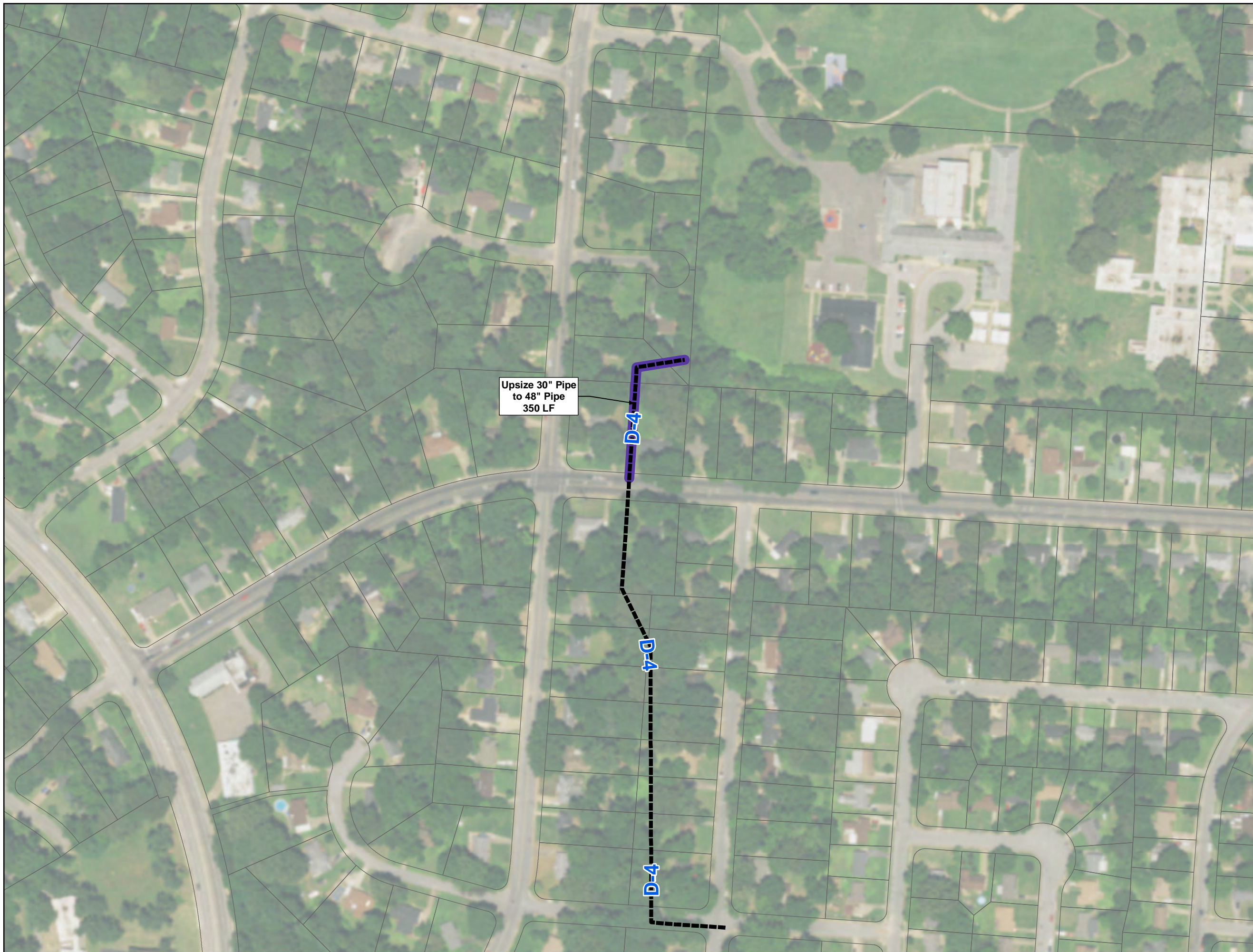
- Open Channel
- Storm Sewer
- Storage Site 17

SOLUTIONS
10 YEAR




WATERSHED
Denver

BRANCH
D-3





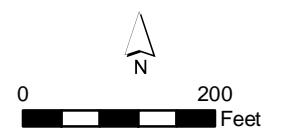
LEGEND

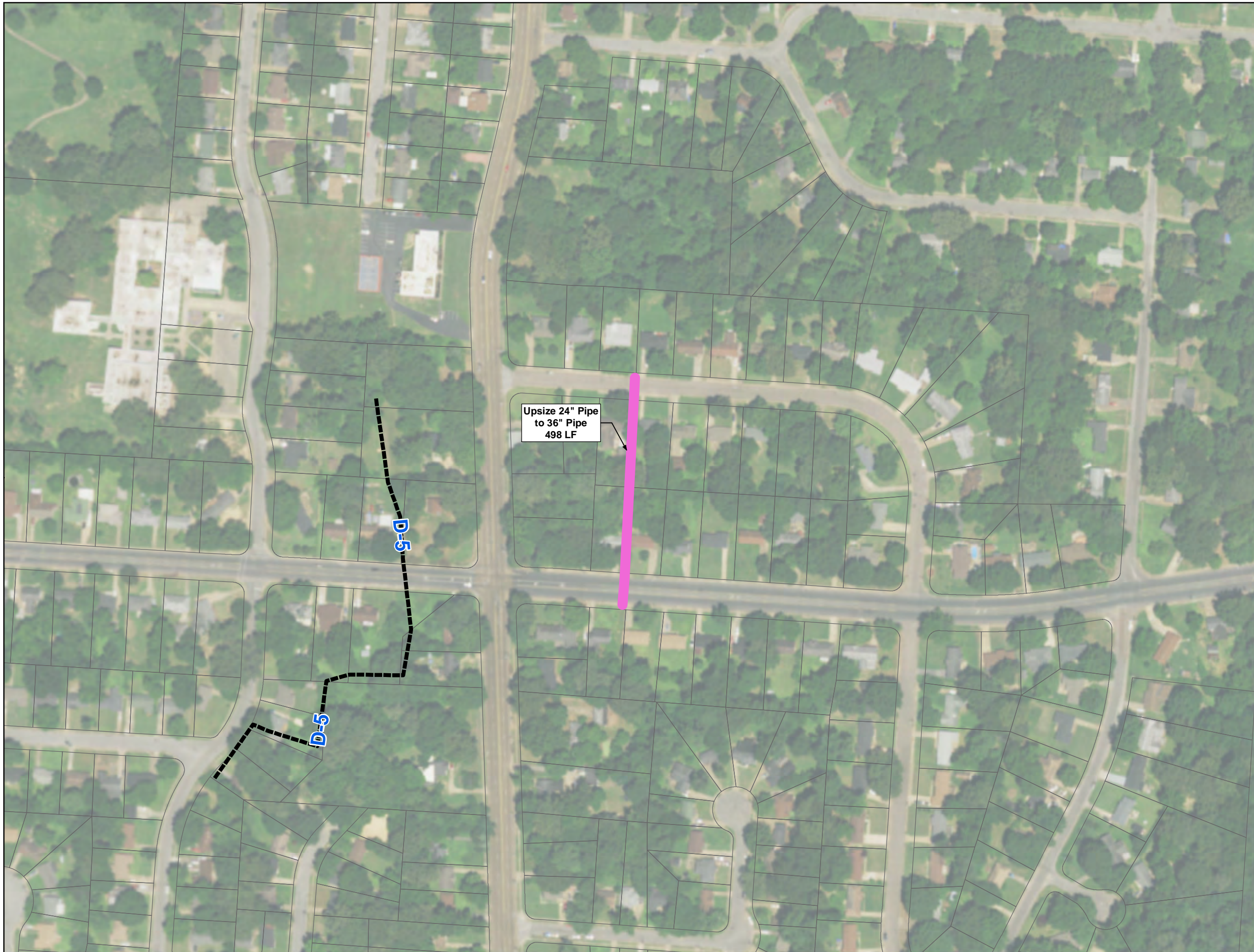
-  Open Channel
-  Storm Sewer
-  Upsize 30" Pipe to 48" Pipe

SOLUTIONS
10 YEAR

WATERSHED
Denver

BRANCH
D-4





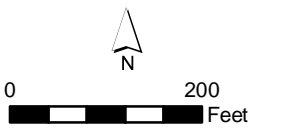
LEGEND

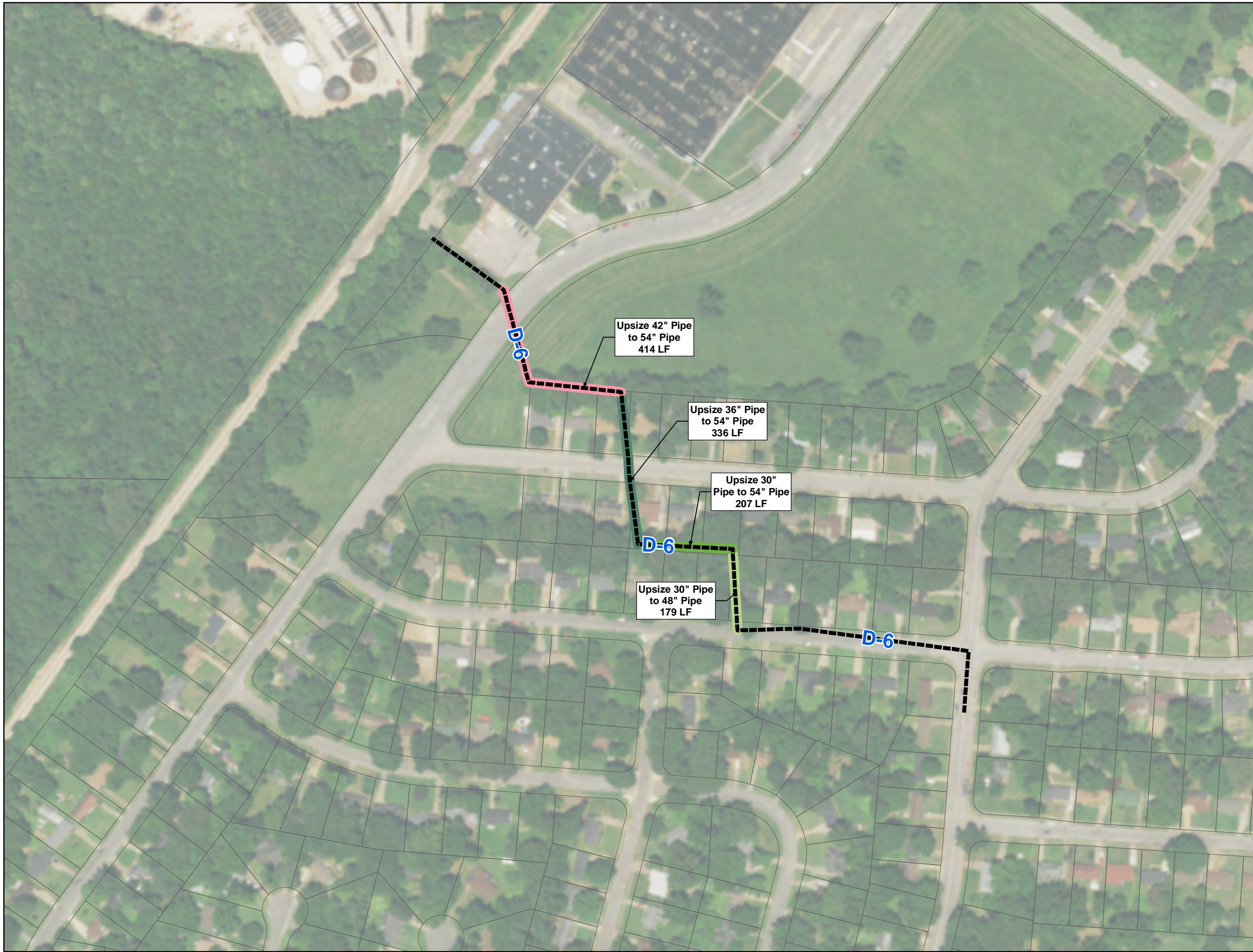
- Open Channel
- Storm Sewer
- Upsize 24" Pipe to 36" Pipe

SOLUTIONS
10 YEAR

WATERSHED
Denver

BRANCH
D-5





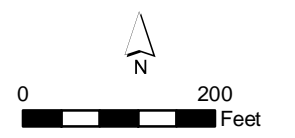
LEGEND

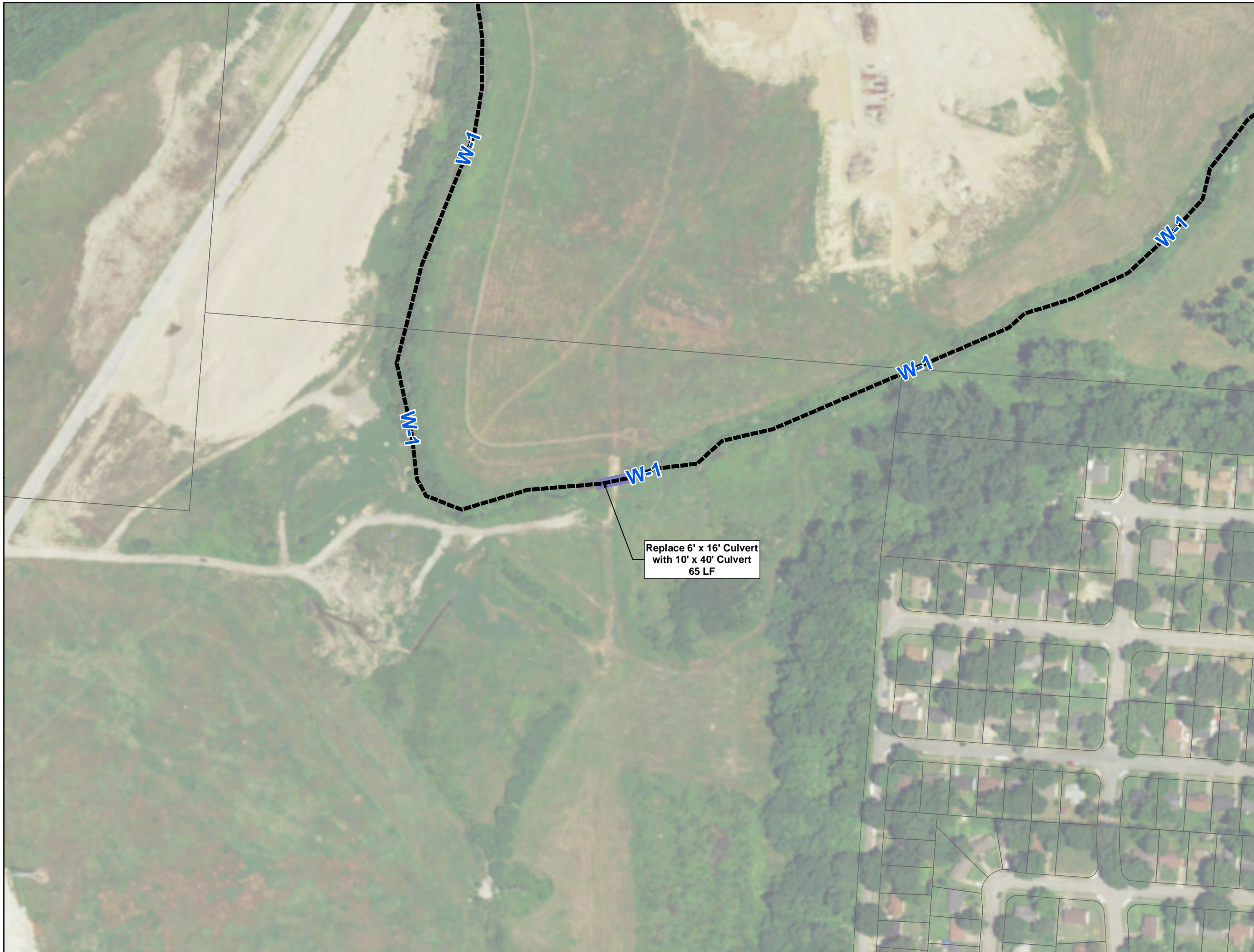
- Open Channel
- Storm Sewer
- Upsize 30" Pipe to 48" Pipe
- Upsize 30" Pipe to 54" Pipe
- Upsize 36" Pipe to 54" Pipe
- Upsize 42" Pipe to 54" Pipe

SOLUTIONS
10 YEAR

WATERSHED
Denver

BRANCH
D-6





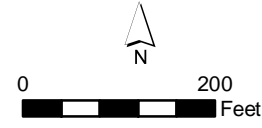
LEGEND

- Open Channel
- Storm Sewer
- Replace 6' x 16' Culvert with 10' x 40' Culvert

SOLUTIONS
10 YEAR

WATERSHED
WMPS

BRANCH
W-1





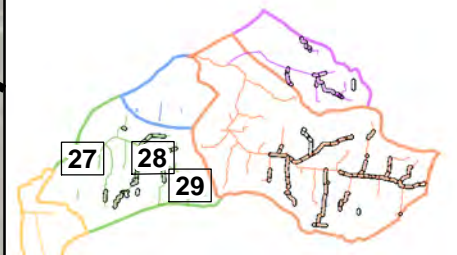
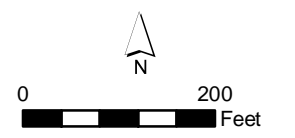
LEGEND

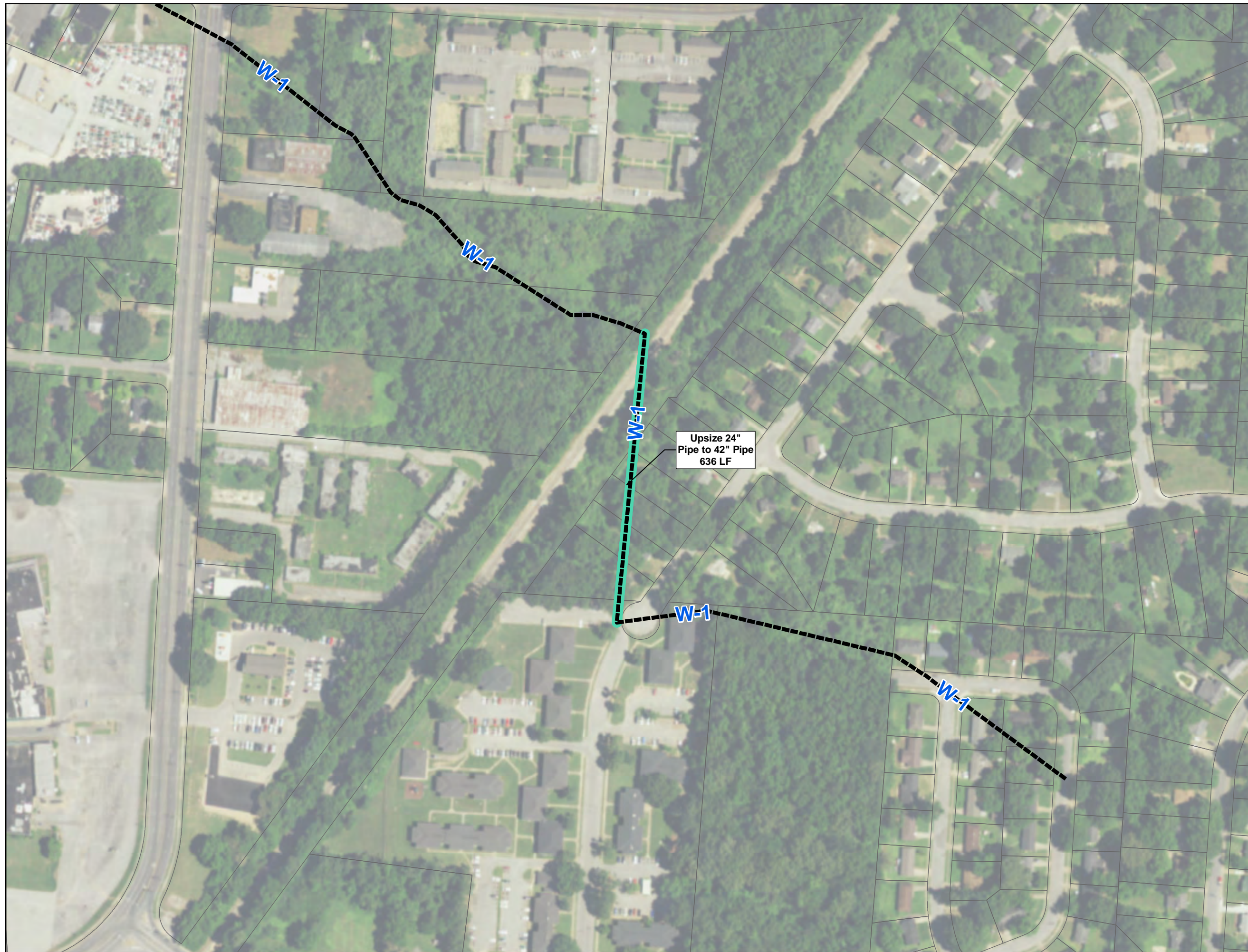
- Open Channel
- Storm Sewer
- Upsize 4' x 9' Culvert with 5' x 10' Culvert

SOLUTIONS
10 YEAR

WATERSHED
WMPS

BRANCH
W-1





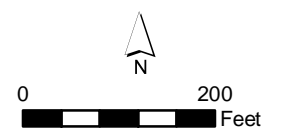
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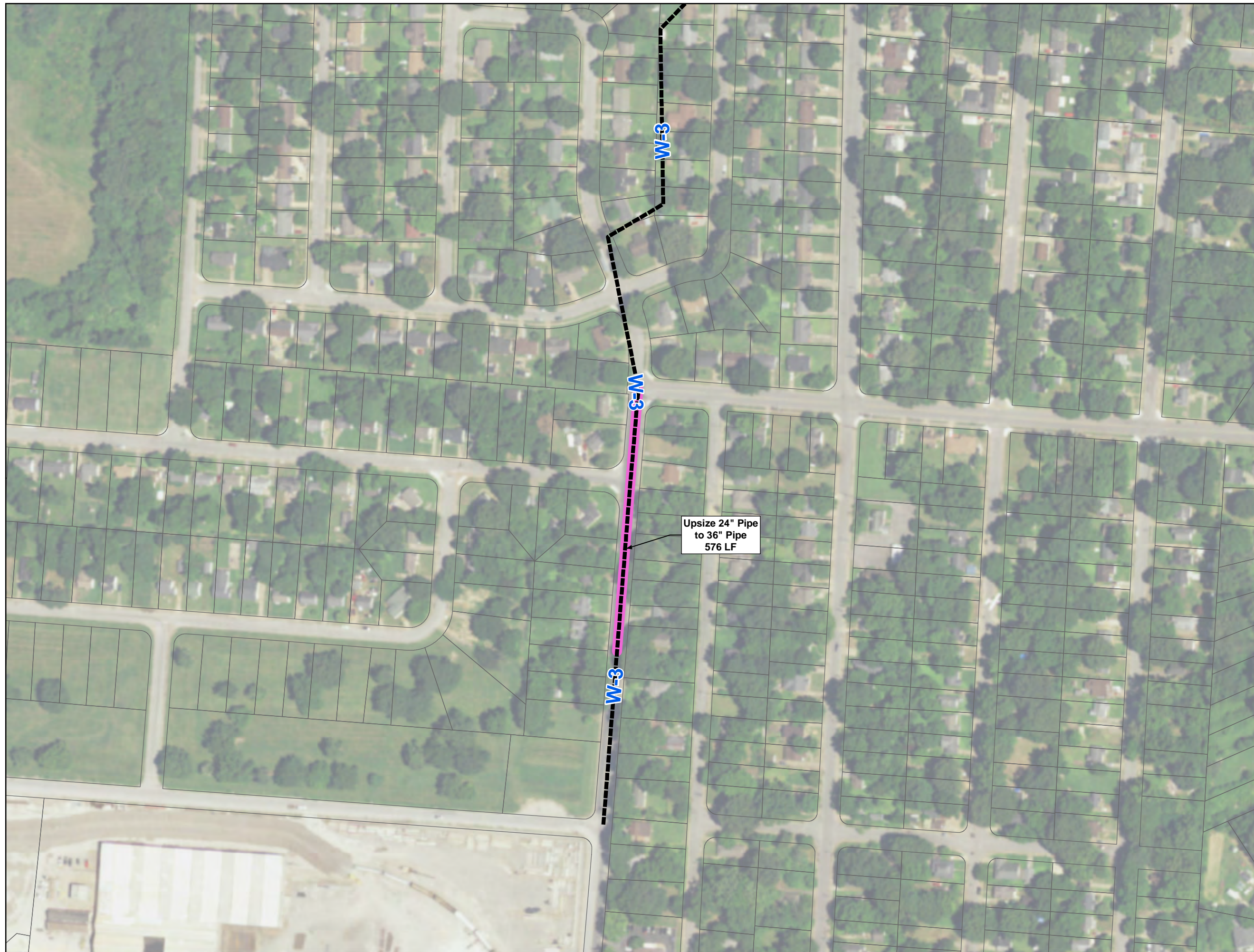
- Open Channel
- Storm Sewer
- Upsize 24" Pipe to 42" Pipe

SOLUTIONS
10 YEAR

WATERSHED
WMPS

BRANCH
W-1





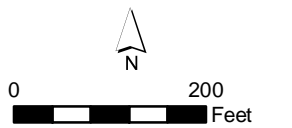
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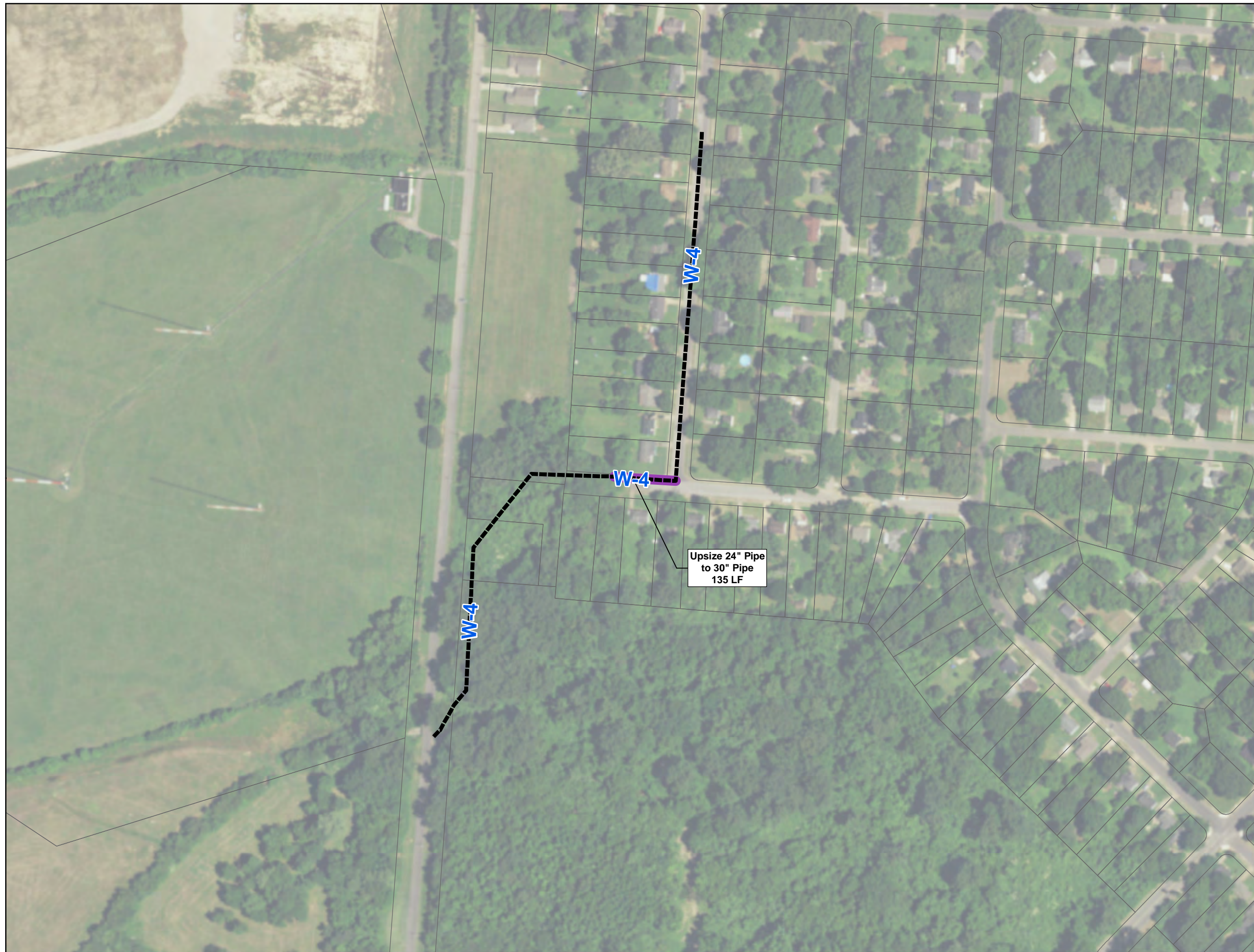
- Open Channel
- Storm Sewer
- Upsize 24" Pipe to 36" Pipe

SOLUTIONS
10 YEAR

WATERSHED
WMPS

BRANCH
W-3





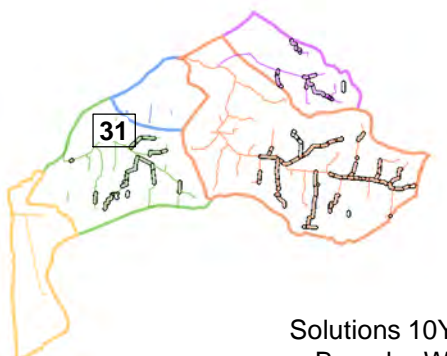
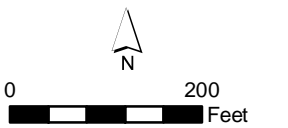
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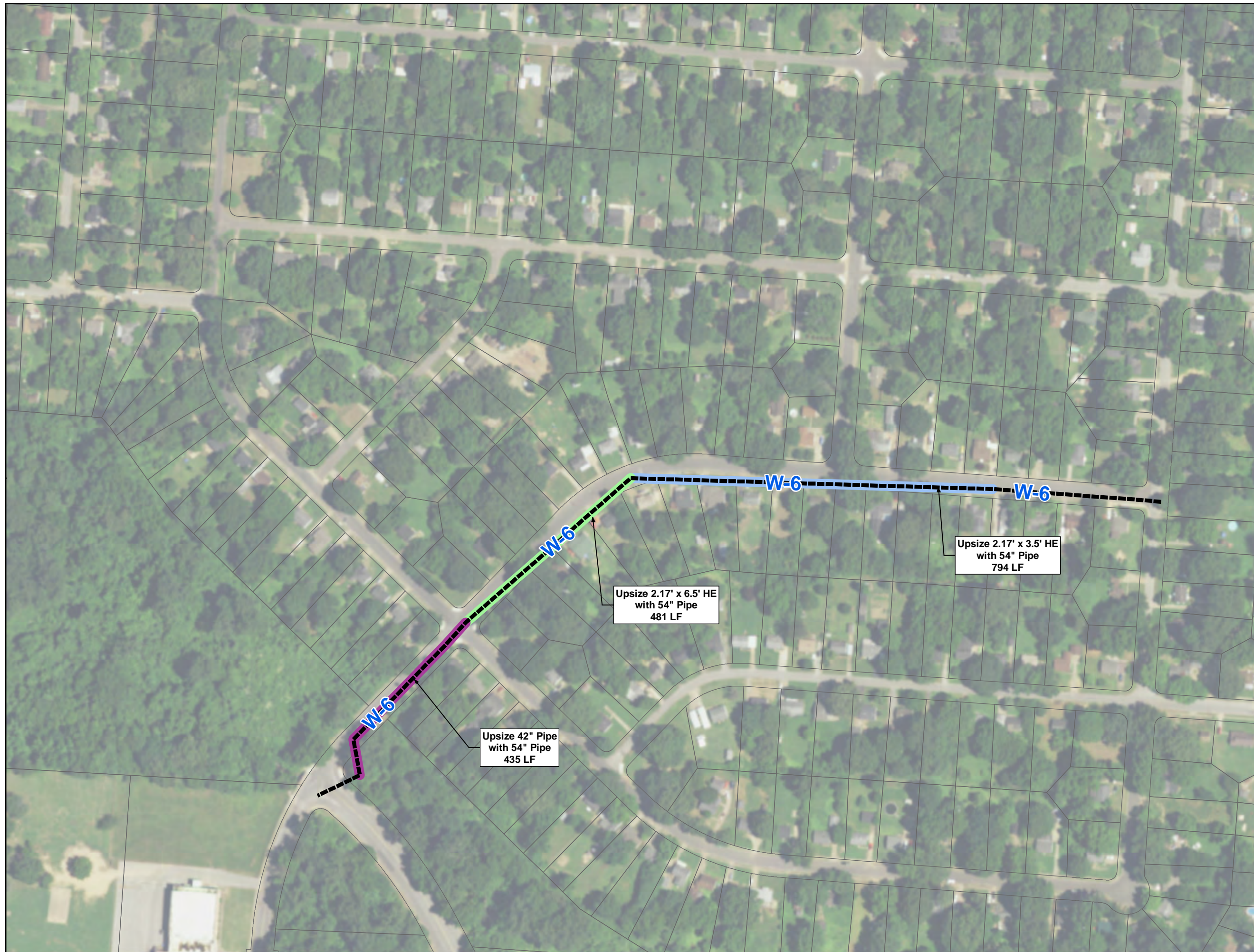
- Open Channel
- Storm Sewer
- Upsize 24" Pipe to 30" Pipe

SOLUTIONS
10 YEAR

WATERSHED
WMPS

BRANCH
W-4





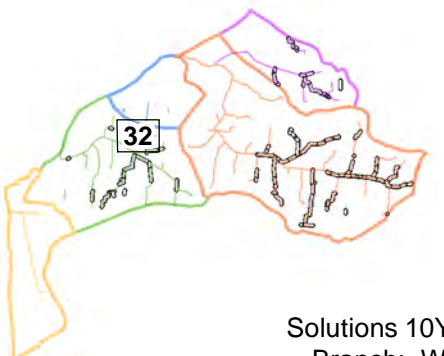
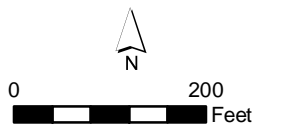
LEGEND

- Open Channel
- Storm Sewer
- Upsize 2.17' x 3.5' HE with 54" Pipe
- Upsize 2.17' x 6.5' HE with 54" Pipe
- Upsize 42" Pipe with 54" Pipe

SOLUTIONS
10 YEAR

WATERSHED
WMPS

BRANCH
W-6





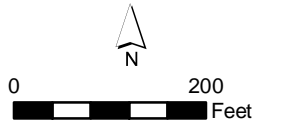
LEGEND

- Open Channel
- Storm Sewer
- Upsize 30" Pipe with 36" Pipe
- Upsize 36" Pipe with 48" Pipe

SOLUTIONS
10 YEAR

WATERSHED
WMPS

BRANCH
W-7





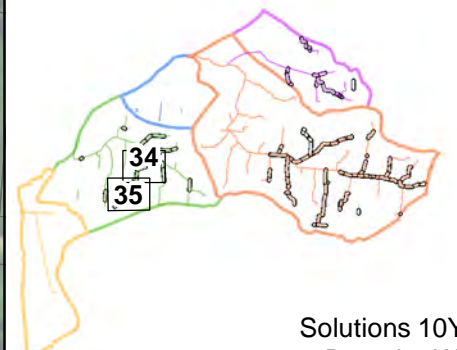
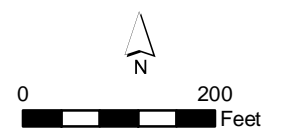
LEGEND

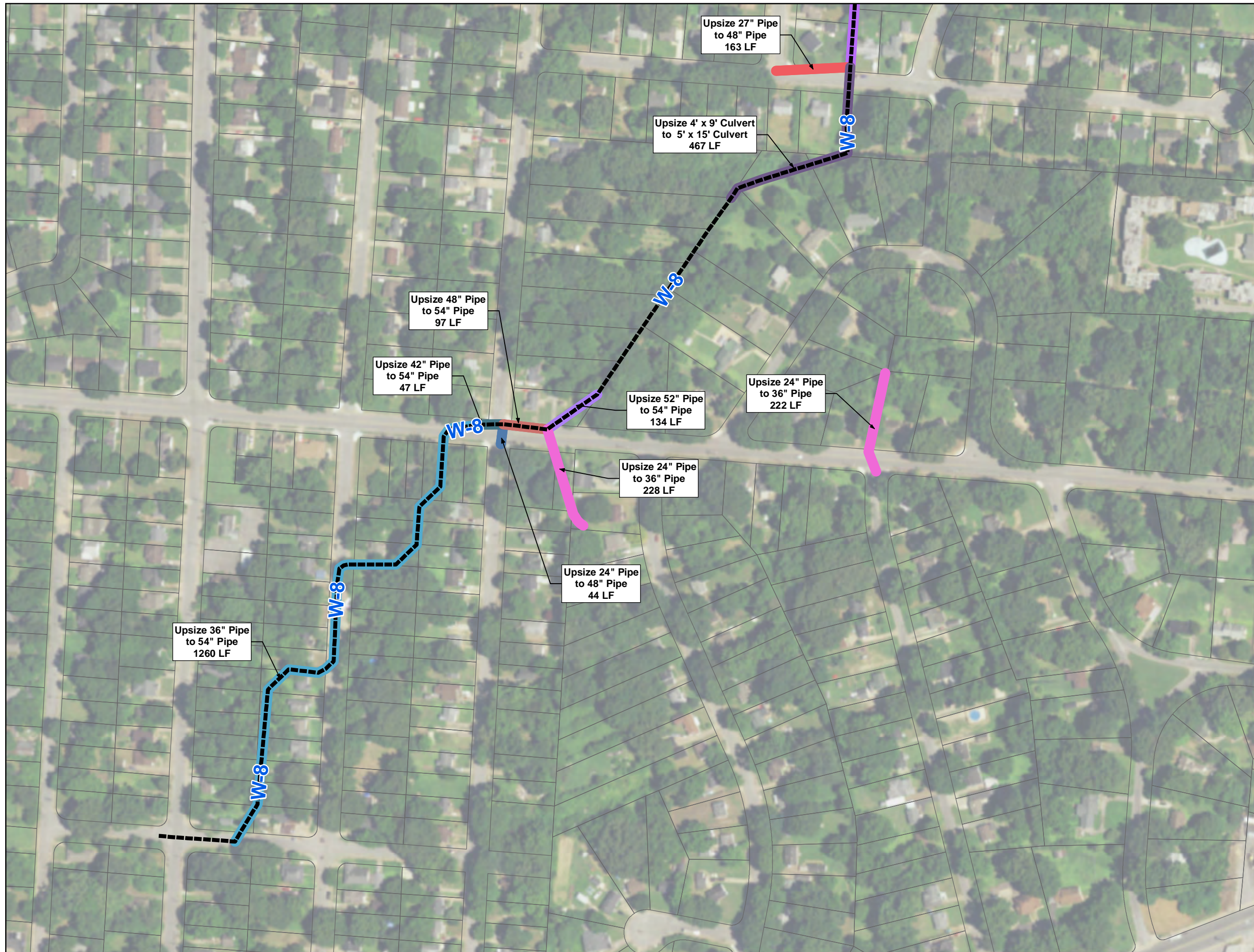
- Open Channel
- Storm Sewer
- Increase 11' wide OCC to 25' wide OCC
- Upsize 27" Pipe to 48" Pipe
- Upsize 4' x 9' Culvert to 5' x 15' Culvert
- Upsize 4.5' x 7.5' Culvert with 5' x 20' Culvert

SOLUTIONS
10 YEAR

WATERSHED
WMPS

BRANCH
W-8



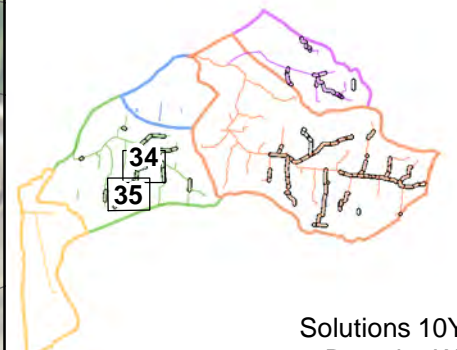
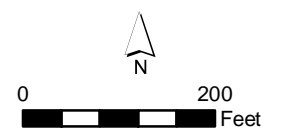


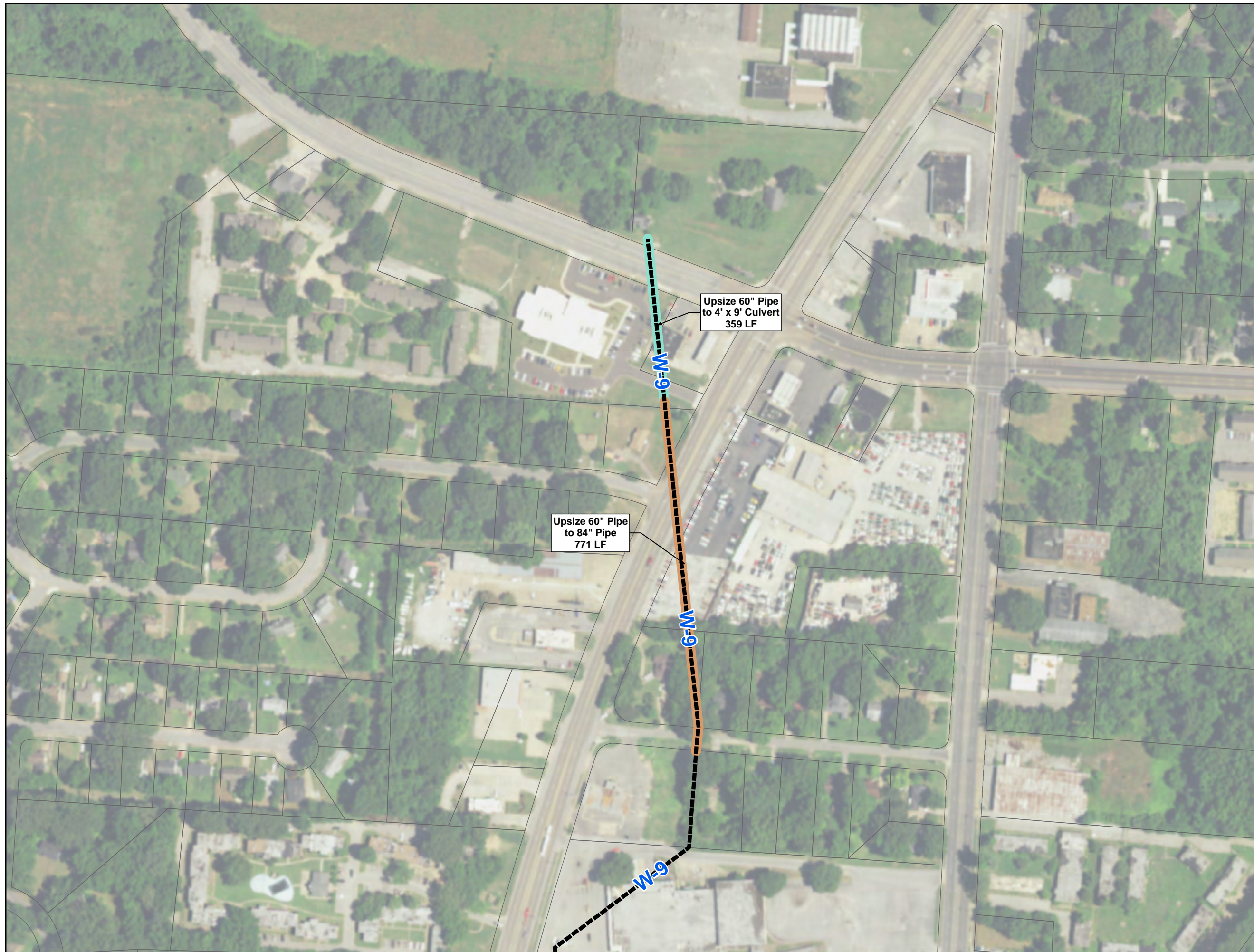
LEGEND	
	Open Channel
	Storm Sewer
	Increase 11' wide OCC to 25' wide OCC
	Upsize 24" Pipe to 36" Pipe
	Upsize 24" Pipe to 48" Pipe
	Upsize 27" Pipe to 48" Pipe
	Upsize 36" Pipe to 54" Pipe
	Upsize 4' x 9' Culvert to 5' x 15' Culvert
	Upsize 42" Pipe to 54" Pipe
	Upsize 48" Pipe to 54" Pipe
	Upsize 52" Pipe to 54" Pipe

SOLUTIONS
10 YEAR

WATERSHED
WMPS

BRANCH
W-8





LEGEND

- Open Channel
- Storm Sewer
- Upsize 60" Pipe to 4' x 9' Culvert
- Upsize 60" Pipe to 84" Pipe

SOLUTIONS
10 YEAR

WATERSHED
WMPS

BRANCH
W-9

