

ENGINEER'S OPINION OF PROBABLE COST
(PLANNING LEVEL)

Cherry Bayou Drainage Master Plan

GW-14 and GW-15 Alternative B - Capacity and Storage Improvements

Item	Unit	Base Price	*Unit Price	Estimate Quantity	Cost	Adjusted Cost	Description
GW-14							
<i>Board of Education Storage</i>							<i>9.6 ac-ft</i>
Clearing and Grubbing	AC	\$ 1,800.00	\$ 2,430.00	1.38	\$ 2,484.00	\$ 3,353.40	
Cut	CY	\$ 25.00	\$ 33.75	13883	\$ 347,075.00	\$ 468,551.25	
Fill	CY	\$ 10.00	\$ 13.50	1388	\$ 13,880.00	\$ 18,738.00	
Chain Link Fence	LF	\$ 12.00	\$ 16.20	1000	\$ 12,000.00	\$ 16,200.00	School Adjacent to Project Site
Sod	SY	\$ 4.00	\$ 5.40	12000	\$ 48,000.00	\$ 64,800.00	
Install 15" Dewatering Pipe	LF	\$ 60.00	\$ 81.00	650	\$ 39,000.00	\$ 52,650.00	Class III
Remove 24" Culvert	LF	\$ 32.00	\$ 43.20	197	\$ 6,304.00	\$ 8,510.40	
Install 48" Culvert	LF	\$ 269.00	\$ 363.15	197	\$ 52,993.00	\$ 71,540.55	Class III
Install 48" Culvert	LF	\$ 269.00	\$ 363.15	500	\$ 134,500.00	\$ 181,575.00	Class III
Install 54" Culvert	LF	\$ 274.00	\$ 369.90	735	\$ 201,390.00	\$ 271,876.50	Class III
Remove 24" Culvert	LF	\$ 32.00	\$ 43.20	20	\$ 640.00	\$ 864.00	
Install 36" Culvert	LF	\$ 134.00	\$ 180.90	20	\$ 2,680.00	\$ 3,618.00	Class III
Remove 30" Culvert	LF	\$ 32.00	\$ 43.20	460	\$ 14,720.00	\$ 19,872.00	
Install 42" Culvert	LF	\$ 190.00	\$ 256.50	460	\$ 87,400.00	\$ 117,990.00	Class III
Remove 30" Culvert	LF	\$ 32.00	\$ 43.20	462	\$ 14,784.00	\$ 19,958.40	
Install 48" Culvert	LF	\$ 269.00	\$ 363.15	462	\$ 124,278.00	\$ 167,775.30	Class III
24' Road Repair/Curb/Sidewalk	CY	\$ 832.00	\$ 1,123.20	1034	\$ 860,472.89	\$ 1,161,638.40	24' * Culvert Length * 0.5'
New Curb Inlets	EA	\$ 9,256.00	\$ 12,495.60	2	\$ 18,512.00	\$ 24,991.20	Type 10, 4'-8'
New Manholes	EA	\$ 7,099.00	\$ 9,583.65	3	\$ 21,297.00	\$ 28,750.95	4'-8'
Silt Fence	LF	\$ 4.00	\$ 5.40	6694	\$ 26,776.00	\$ 36,147.60	2 x Culvert Length + 40'
Seed and Mulch	SY	\$ 1.00	\$ 1.35	6282	\$ 6,282.22	\$ 8,481.00	20' x Culvert Length - Road

ENGINEER'S OPINION OF PROBABLE COST
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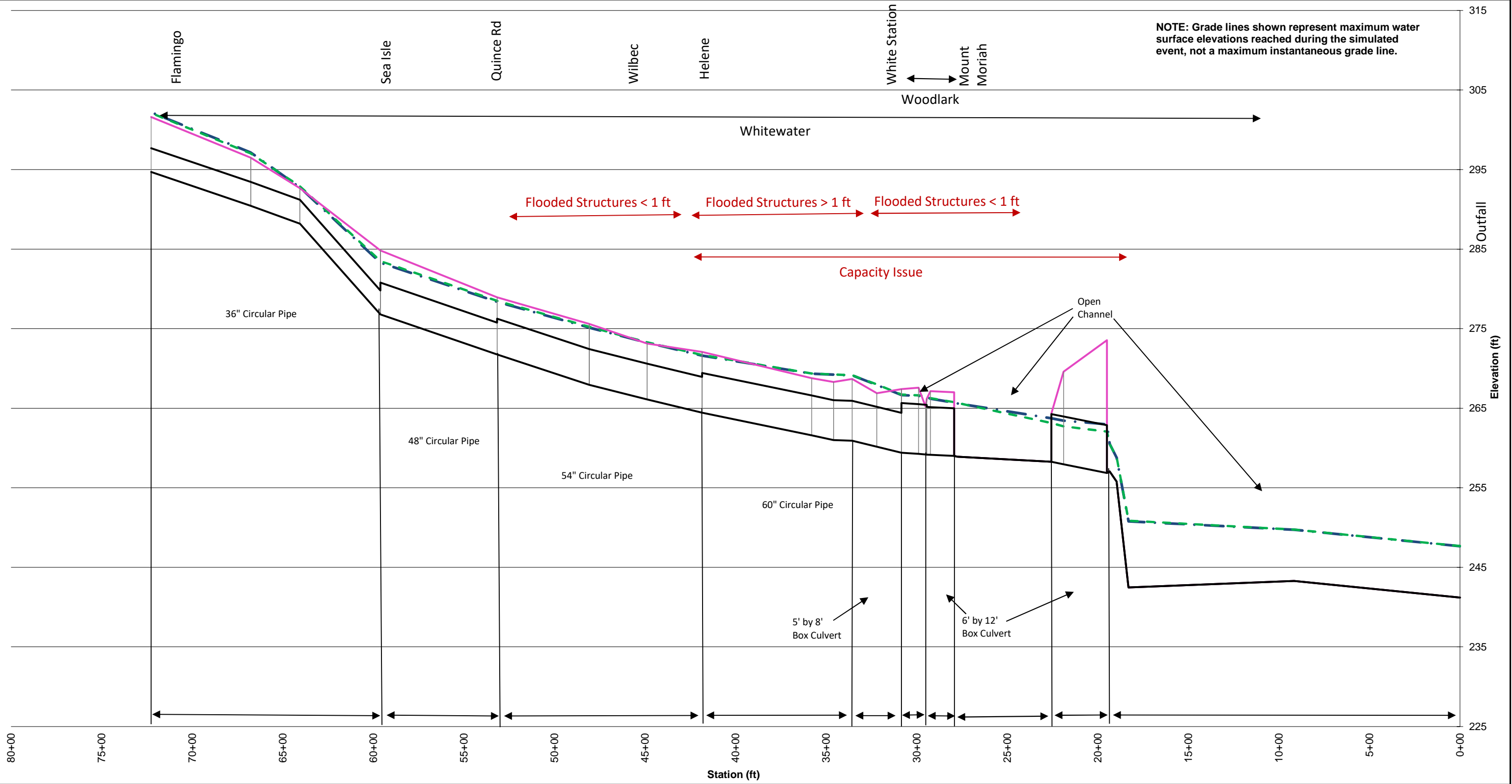
Cherry Bayou Drainage Master Plan

Item	Unit	Base Price	*Unit Price	Estimate Quantity	Cost	Adjusted Cost	Description
Titus Road							
Remove 24" Culvert	LF	\$ 32.00	\$ 43.20	197	\$ 6,304.00	\$ 8,510.40	
Install 48" Culvert	LF	\$ 269.00	\$ 363.15	197	\$ 52,993.00	\$ 71,540.55	Class III
Remove 24" Culvert	LF	\$ 32.00	\$ 43.20	61	\$ 1,952.00	\$ 2,635.20	
Install 30" Culvert	LF	\$ 103.00	\$ 139.05	61	\$ 6,283.00	\$ 8,482.05	Class III
Remove 27" Culvert	LF	\$ 32.00	\$ 43.20	268	\$ 8,576.00	\$ 11,577.60	
Install 36" Culvert	LF	\$ 134.00	\$ 180.90	268	\$ 35,912.00	\$ 48,481.20	Class III
Clean/Dig Out Ditch	CY	\$ 100.00	\$ 135.00	241	\$ 24,100.00	\$ 32,535.00	
24' Road Repair/Curb/Sidewalk	CY	\$ 832.00	\$ 1,123.20	234	\$ 194,503.11	\$ 262,579.20	24' * Culvert Length * 0.5'
New Curb Inlets	EA	\$ 9,256.00	\$ 12,495.60	2	\$ 18,512.00	\$ 24,991.20	Type 10, 4'-8'
Silt Fence	LF	\$ 4.00	\$ 5.40	1092	\$ 4,368.00	\$ 5,896.80	2 x Culvert Length + 40'
Seed and Mulch	SY	\$ 1.00	\$ 1.35	1169	\$ 1,168.89	\$ 1,578.00	20' x Culvert Length - Road
GW-15							
Install 30" Culvert	LF	\$ 103.00	\$ 139.05	512	\$ 52,736.00	\$ 71,193.60	Class III
24' Road Repair/Curb/Sidewalk	CY	\$ 832.00	\$ 1,123.20	228	\$ 189,326.22	\$ 255,590.40	24' * Culvert Length * 0.5'
New Manholes	EA	\$ 7,099.00	\$ 9,583.65	1	\$ 7,099.00	\$ 9,583.65	4'-8'
Silt Fence	LF	\$ 4.00	\$ 5.40	1064	\$ 4,256.00	\$ 5,745.60	2 x Culvert Length + 40'
Seed and Mulch	SY	\$ 1.00	\$ 1.35	1138	\$ 1,137.78	\$ 1,536.00	20' x Culvert Length - Road

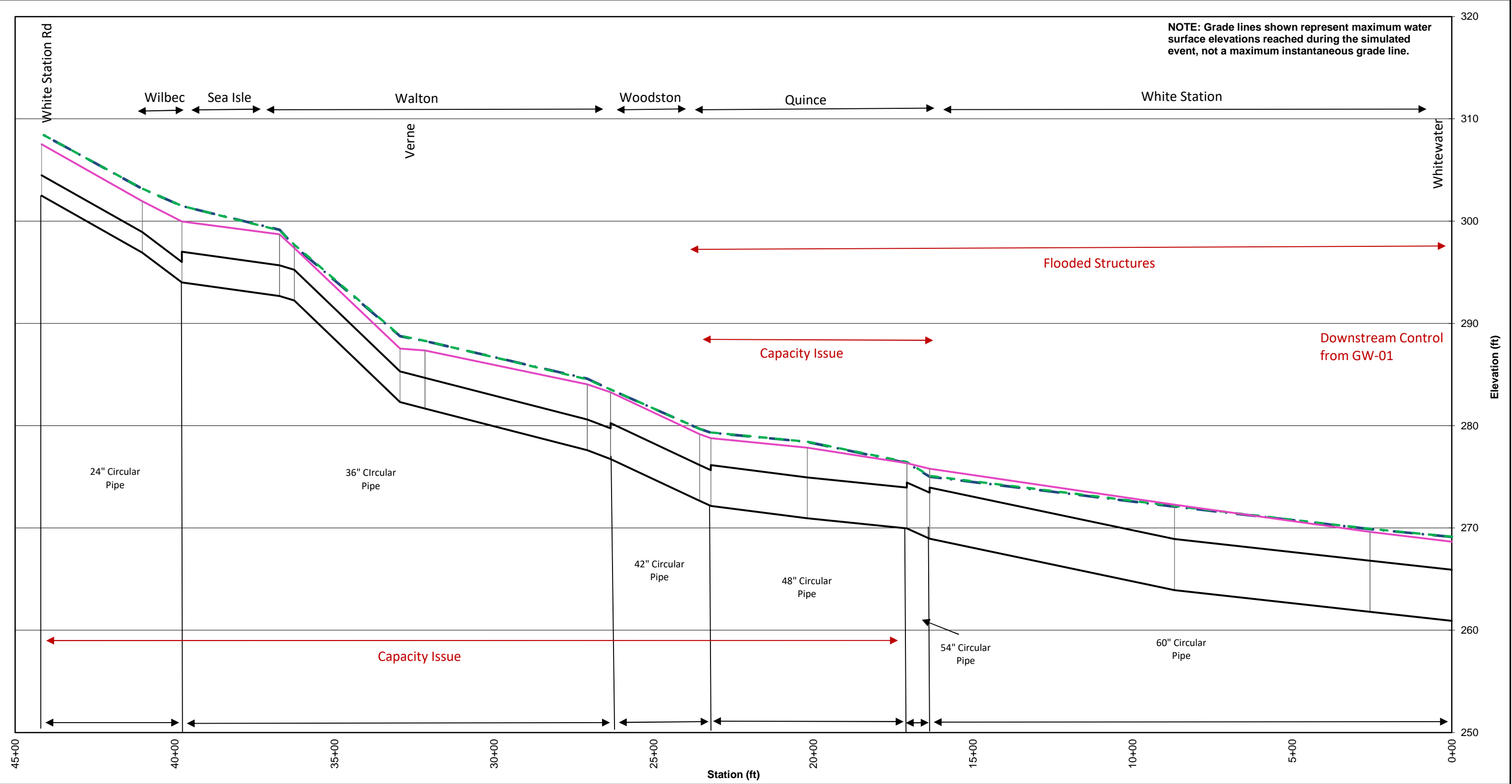
TOTAL

\$ 3,570,338

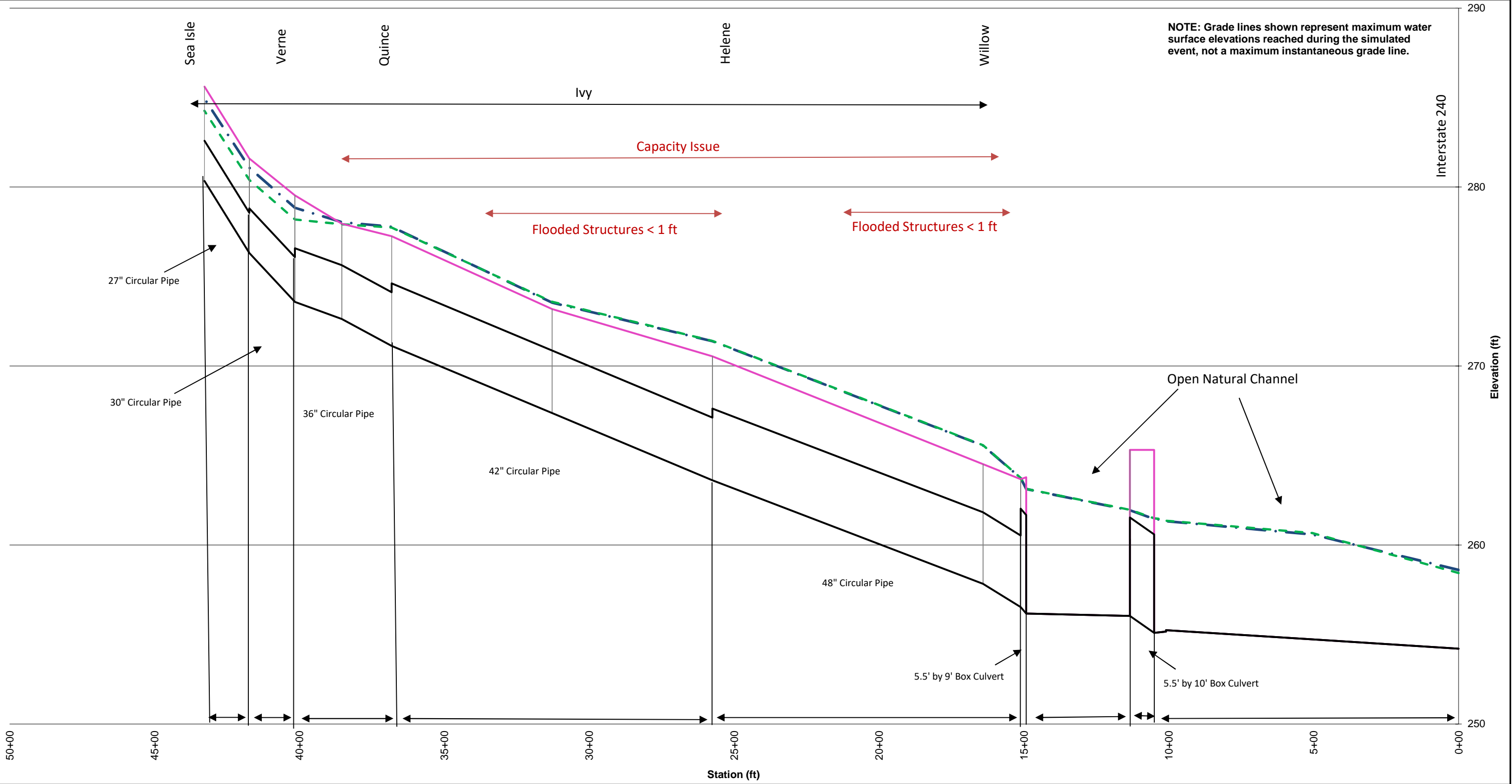
APPENDIX C: HYDRAULIC PROFILES








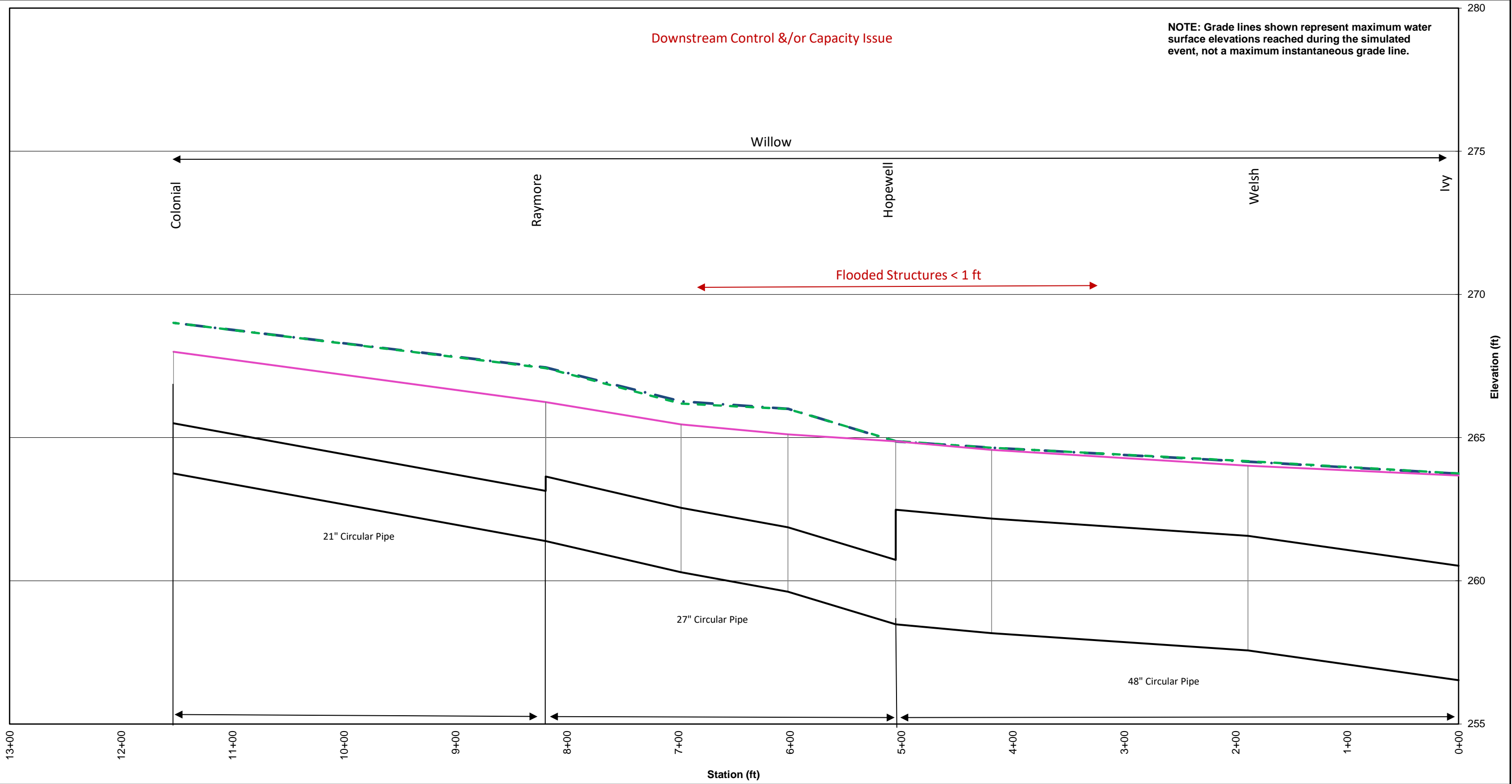
 TETRA TECH	— • 10-Year Existing HGL — • 10-Year Proposed HGL — Ground Surface at Manholes — Model Node — Sewer Pipe	Cherry Bayou Drainage Study Goodwin - Flamingo to Mnt. Moriah Hydraulic Profile (Area 1)	Figure GW-01
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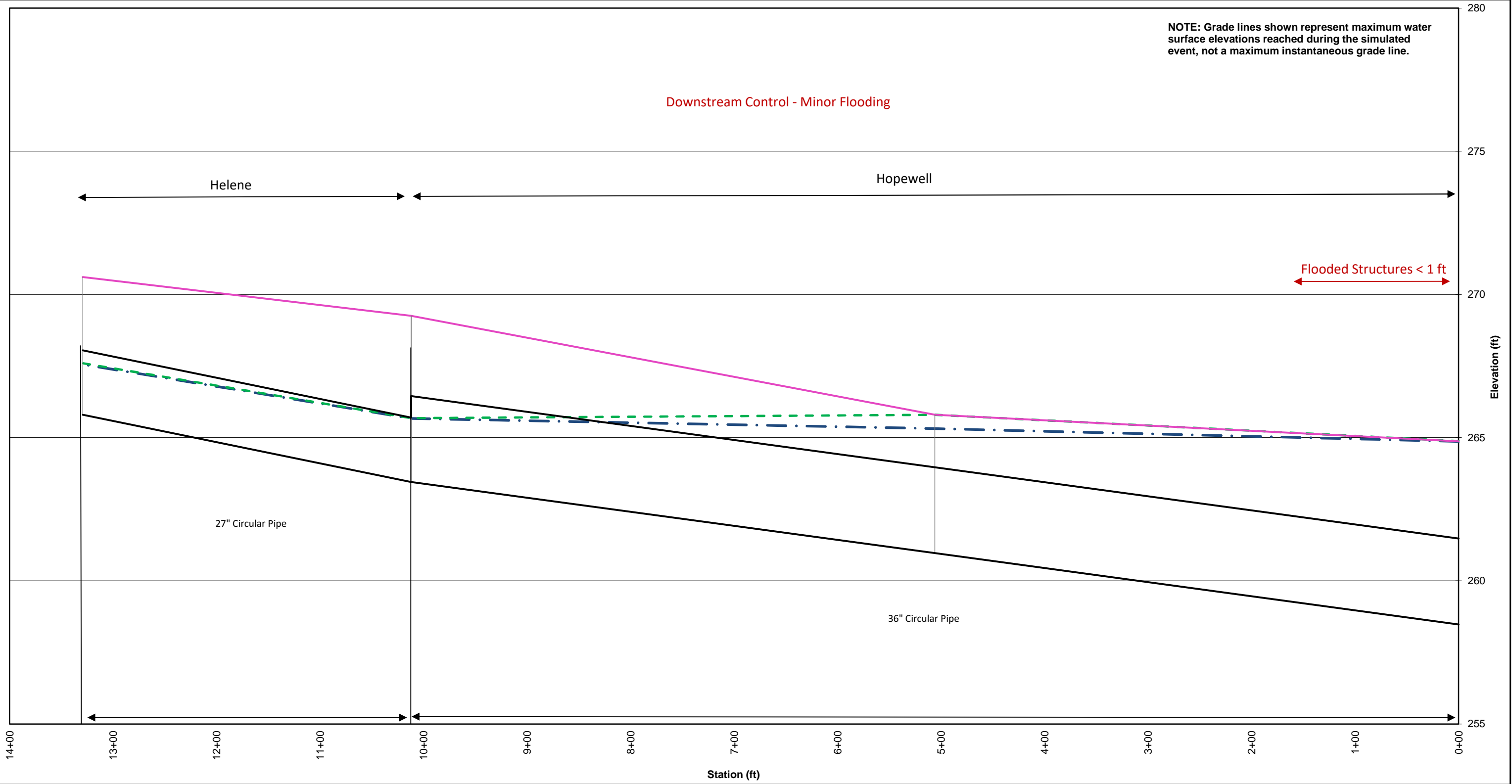
 TETRA TECH	— • — 10-Year Existing HGL - - - 10-Year Proposed HGL — Ground Surface at Manholes — Model Node — Sewer Pipe	Cherry Bayou Drainage Study Goodwin - White Station to Willow Hydraulic Profile (Area 1)	Figure GW-02



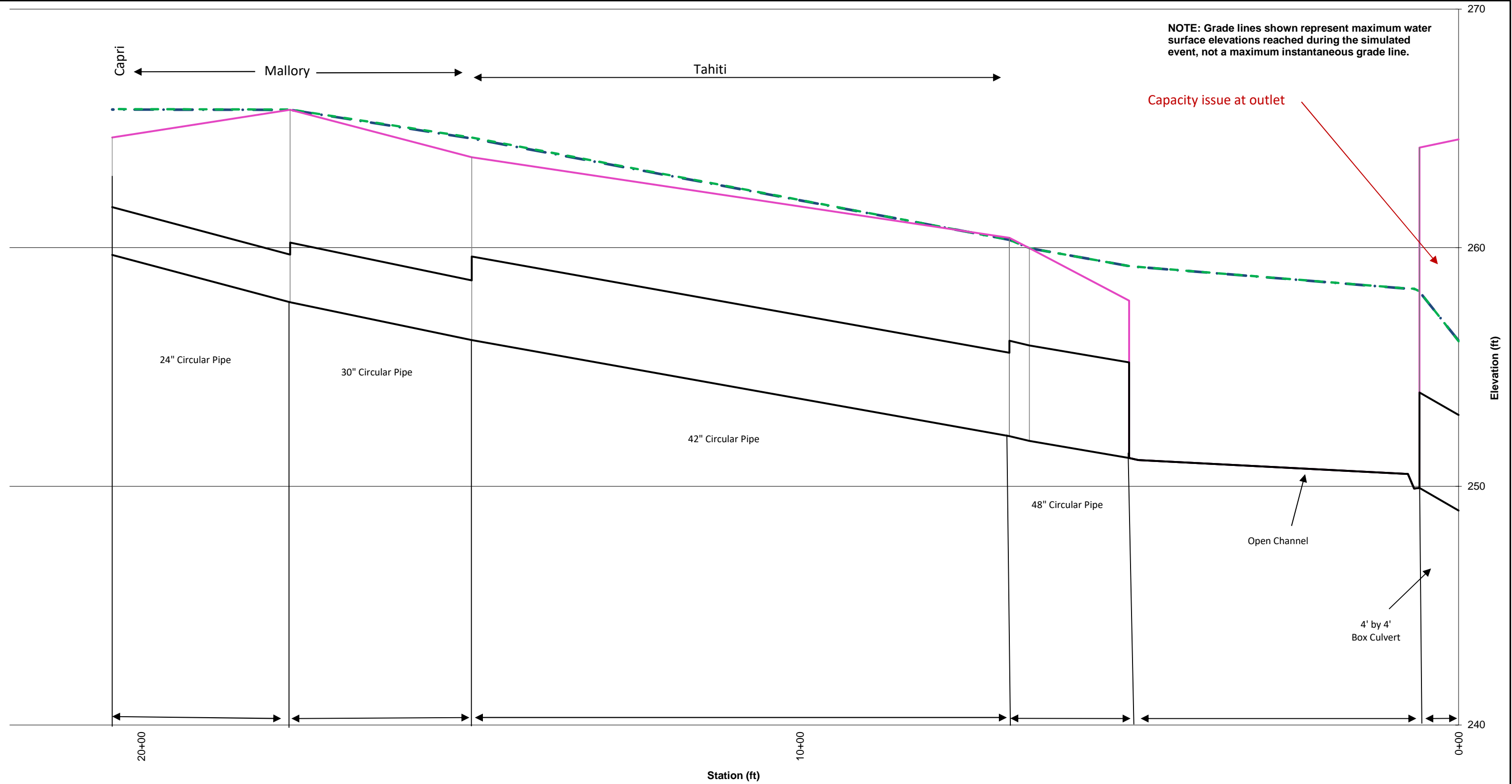
 TETRA TECH	 10-Year Existing HGL  10-Year Proposed HGL  Ground Surface at Manholes  Model Node  Sewer Pipe	Cherry Bayou Drainage Study Sea Isle to Interstate 240 Hydraulic Profile (Area 2)	Figure GW-03





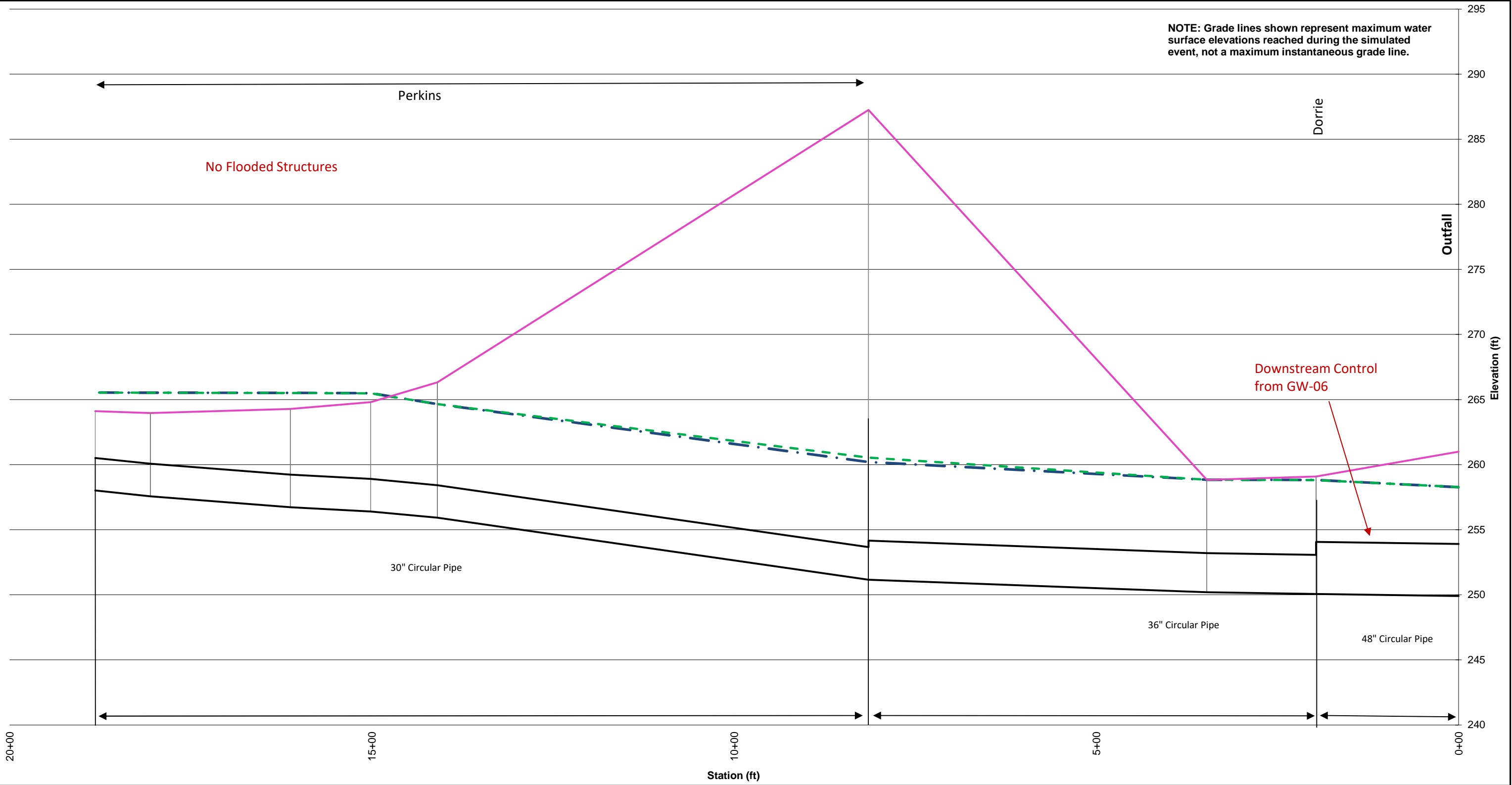
 TETRA TECH	 10-Year Existing HGL  10-Year Proposed HGL  Ground Surface at Manholes  Model Node  Sewer Pipe	Cherry Bayou Drainage Study Goodwin - Willow Road Hydraulic Profile (Area 2)	Figure GW-04
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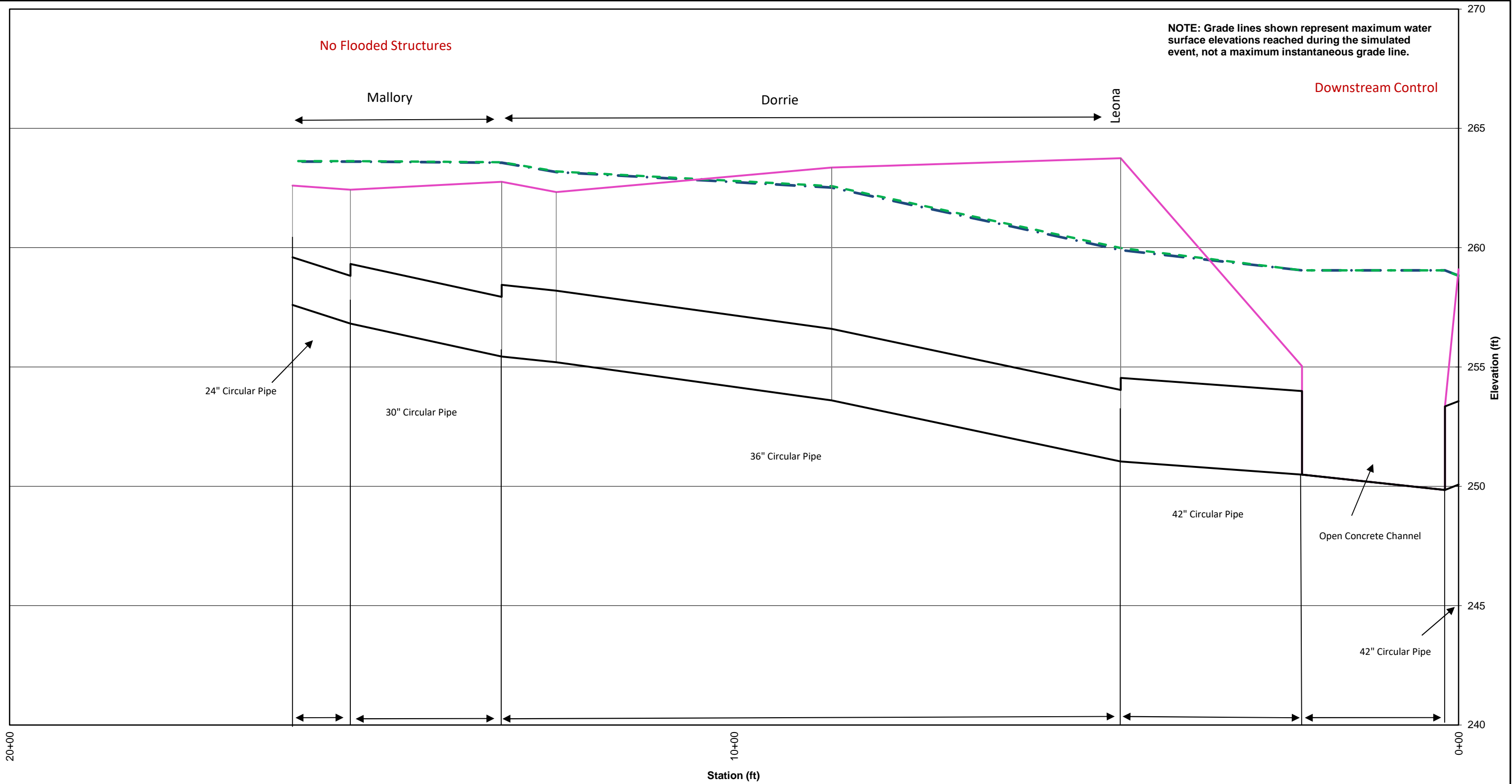
 TETRA TECH	 10-Year Existing HGL  10-Year Proposed HGL  Ground Surface at Manholes  Model Node  Sewer Pipe	Cherry Bayou Drainage Study Goodwin - Raymore to Willow along Hopewell Hydraulic Profile (Area 2)	Figure GW-05




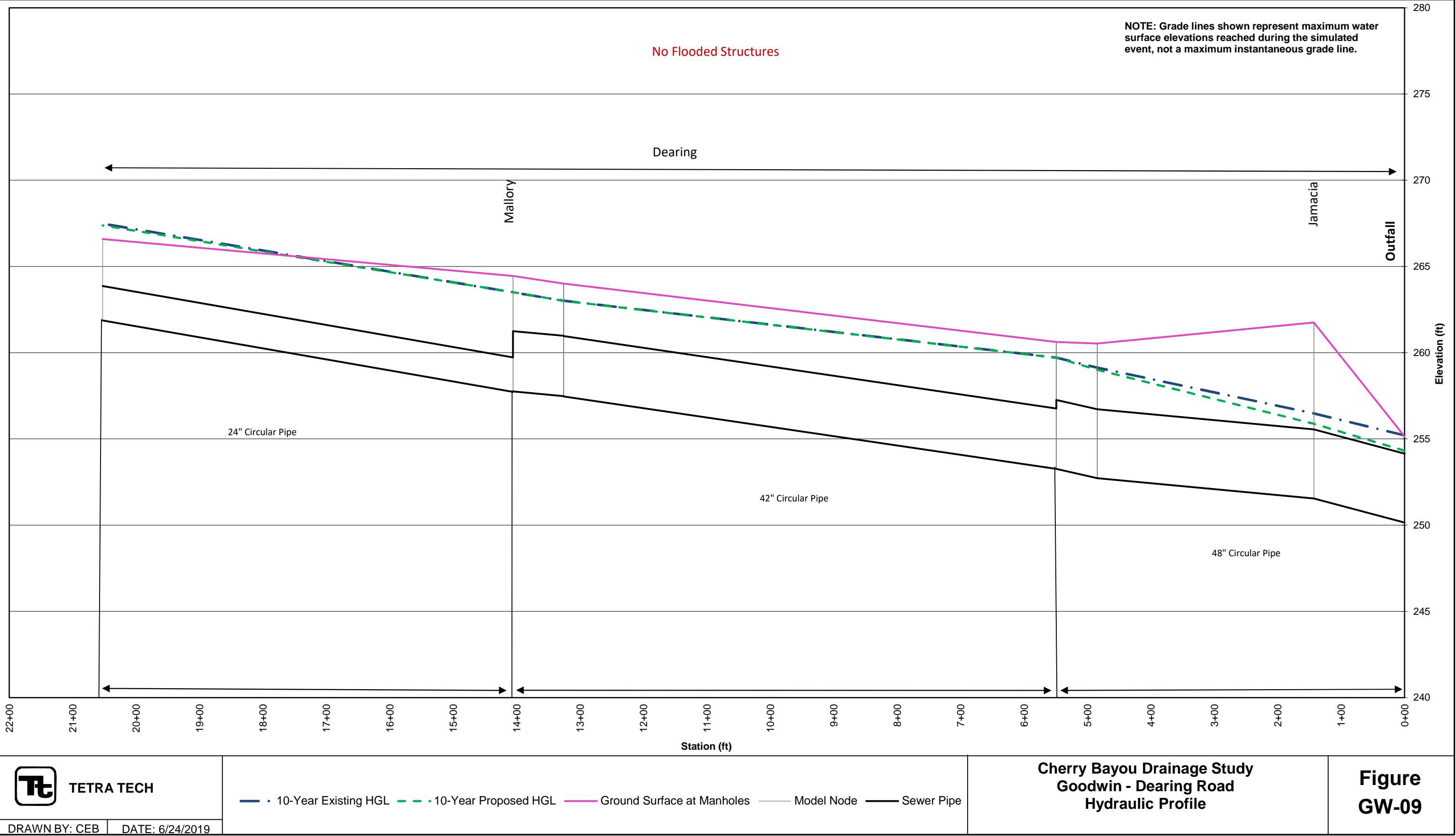
 TETRA TECH		Cherry Bayou Drainage Study Goodwin - Capri to Interstate 240 Hydraulic Profile (Area 3)	Figure GW-06

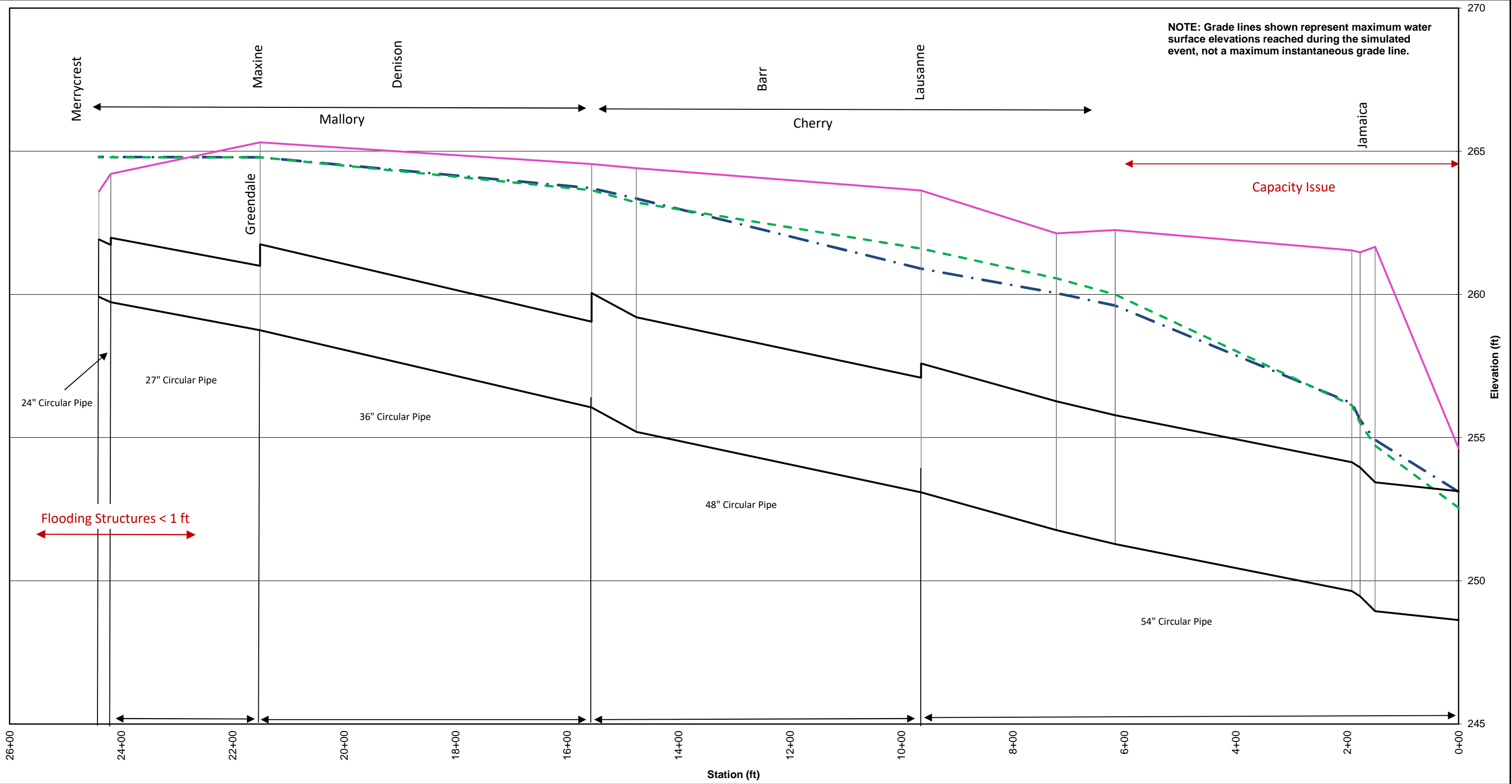



 TETRA TECH	 10-Year Existing HGL  10-Year Proposed HGL  Ground Surface at Manholes  Model Node  Sewer Pipe	Cherry Bayou Drainage Study Goodwin - Mallory to Interstate 240 along Perkins Hydraulic Profile (Area 3)	Figure GW-07

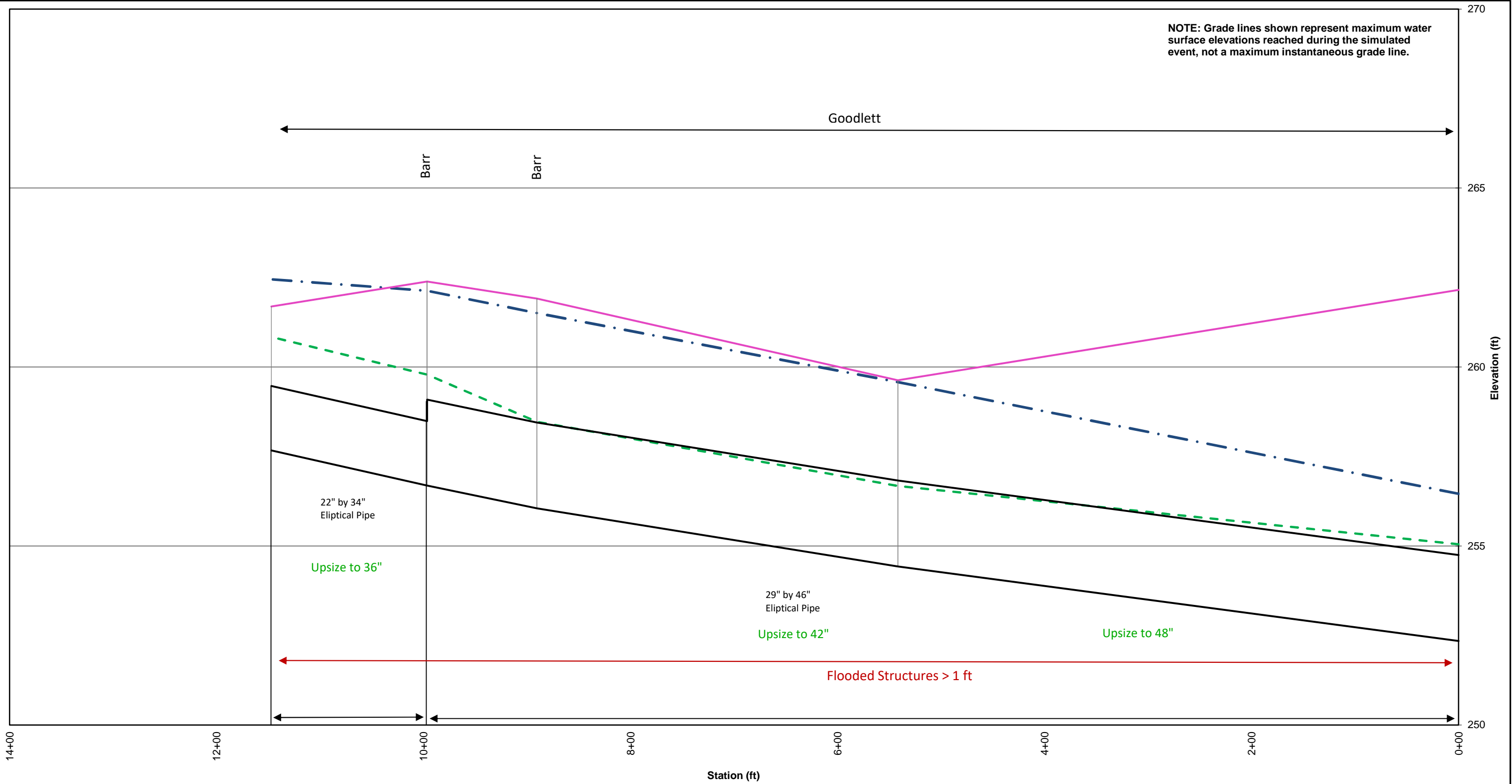








 TETRA TECH	<p>10-Year Existing HGL 10-Year Proposed HGL Ground Surface at Manholes Model Node Sewer Pipe</p>	Cherry Bayou Drainage Study Goodwin - Dorrie Road Hydraulic Profile (Area 3)	Figure GW-08
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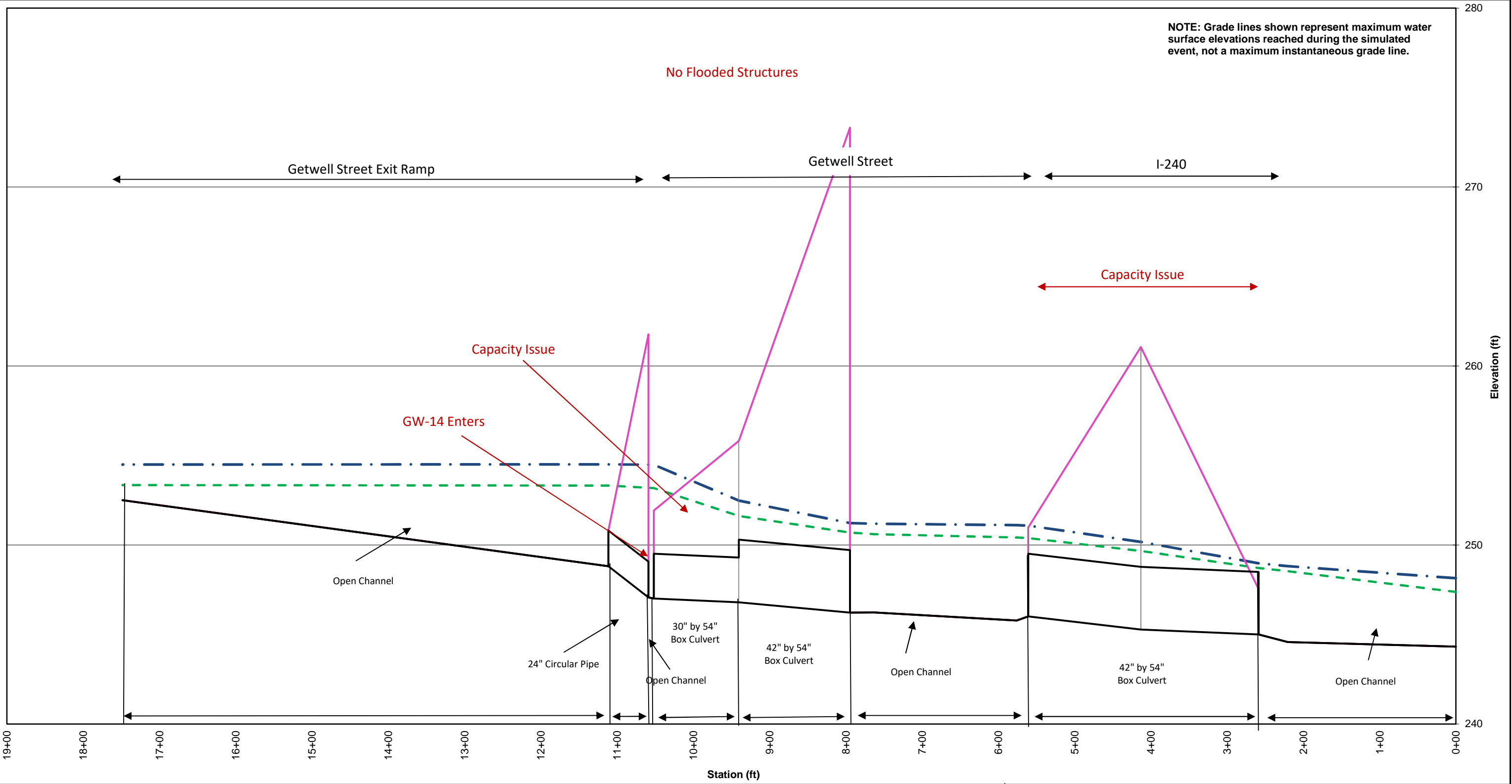










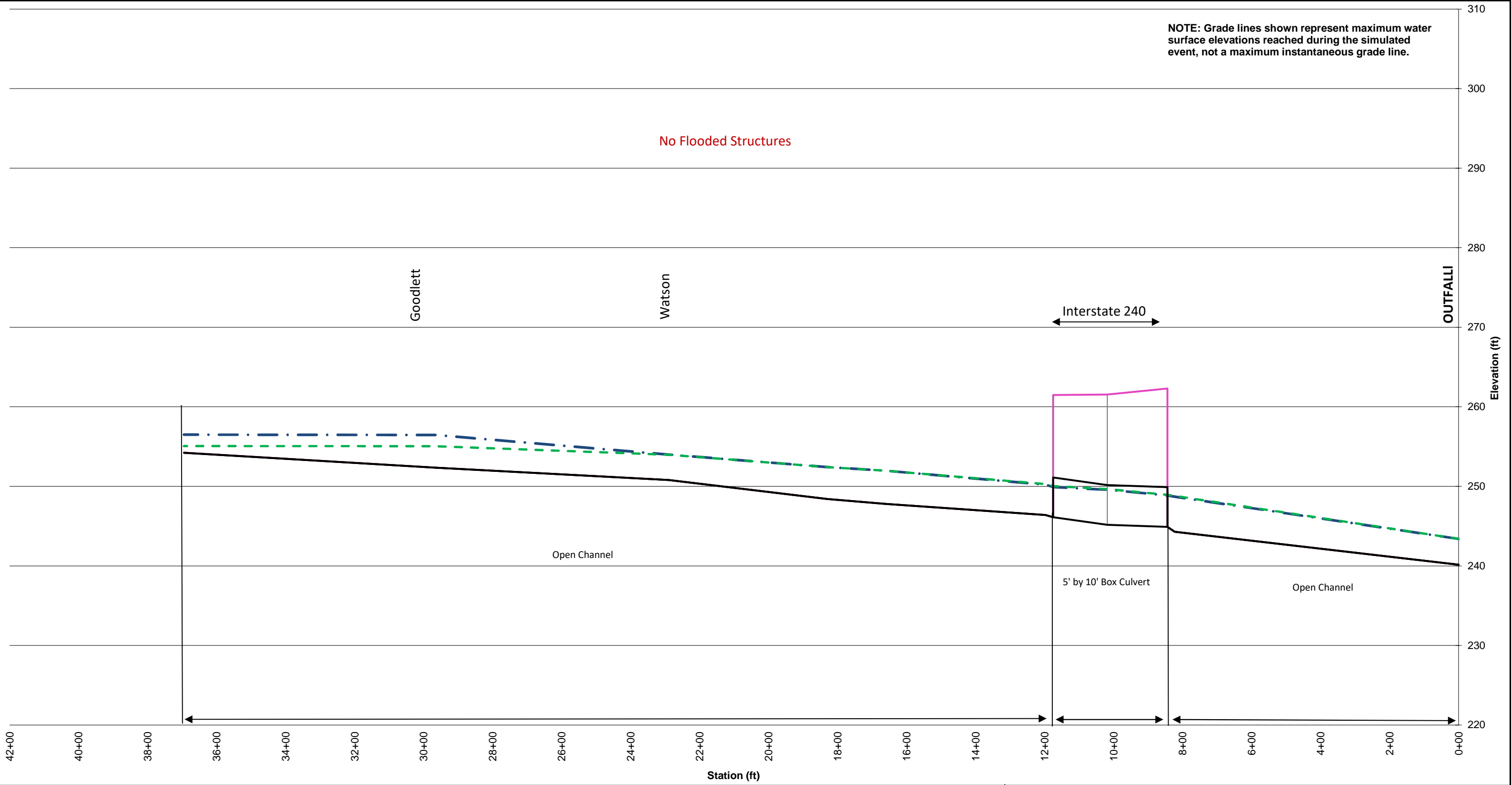
 TETRA TECH	<div>—•— 10-Year Existing HGL - - - 10-Year Proposed HGL — Ground Surface at Manholes — Model Node — Sewer Pipe</div>	Cherry Bayou Drainage Study Goodwin - Merrycrest to Interstate 240 Hydraulic Profile (Area 4)	Figure GW-10
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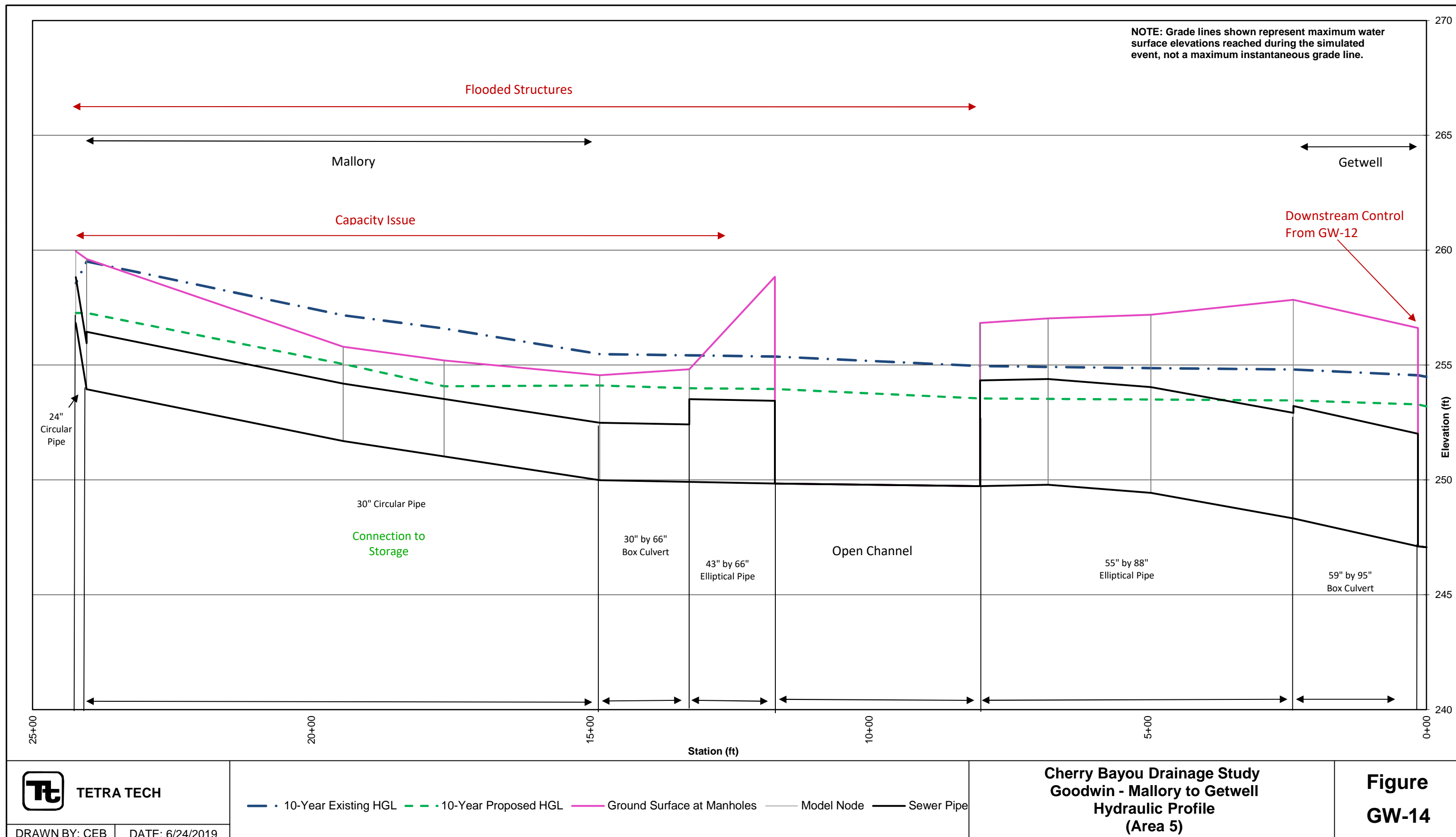
 TETRA TECH	 10-Year Existing HGL  10-Year Proposed HGL  Ground Surface at Manholes  Model Node  Sewer Pipe	Cherry Bayou Drainage Study Goodwin - Goodlet Rd Hydraulic Profile (Area 4)	Figure GW-11

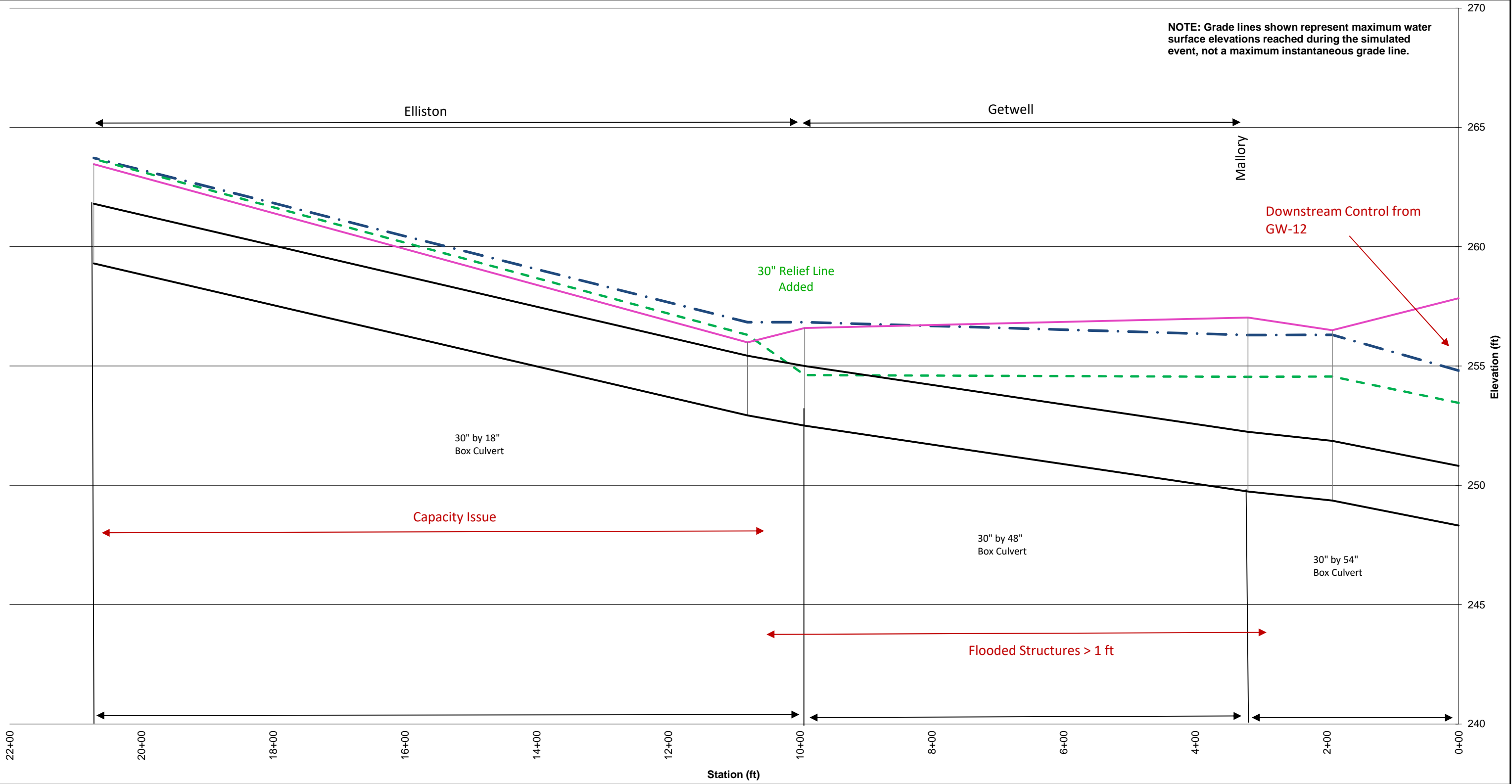







 TETRA TECH	 10-Year Existing HGL  10-Year Proposed HGL  Ground Surface at Manholes  Model Node  Sewer Pipe	Cherry Bayou Drainage Study Goodwin - Interstate 240 Exit Ramp at Getwell Hydraulic Profile (Area 5)	Figure GW-12

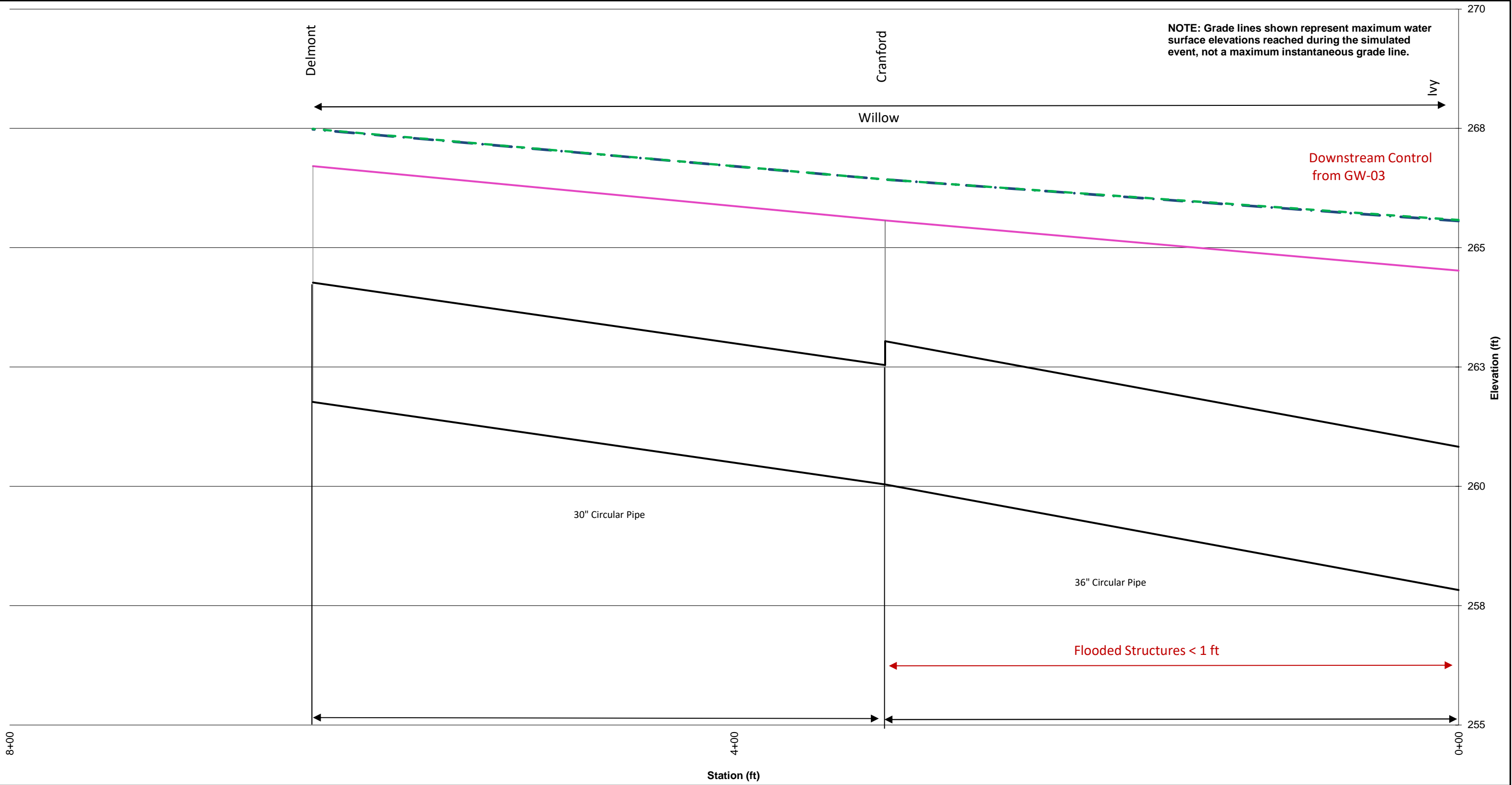


 TETRA TECH	 10-Year Existing HGL  10-Year Proposed HGL  Ground Surface at Manholes  Model Node  Sewer Pipe	Cherry Bayou Drainage Study Goodwin - North of Interstate 240 from Dennison to Getwell	Figure GW-13

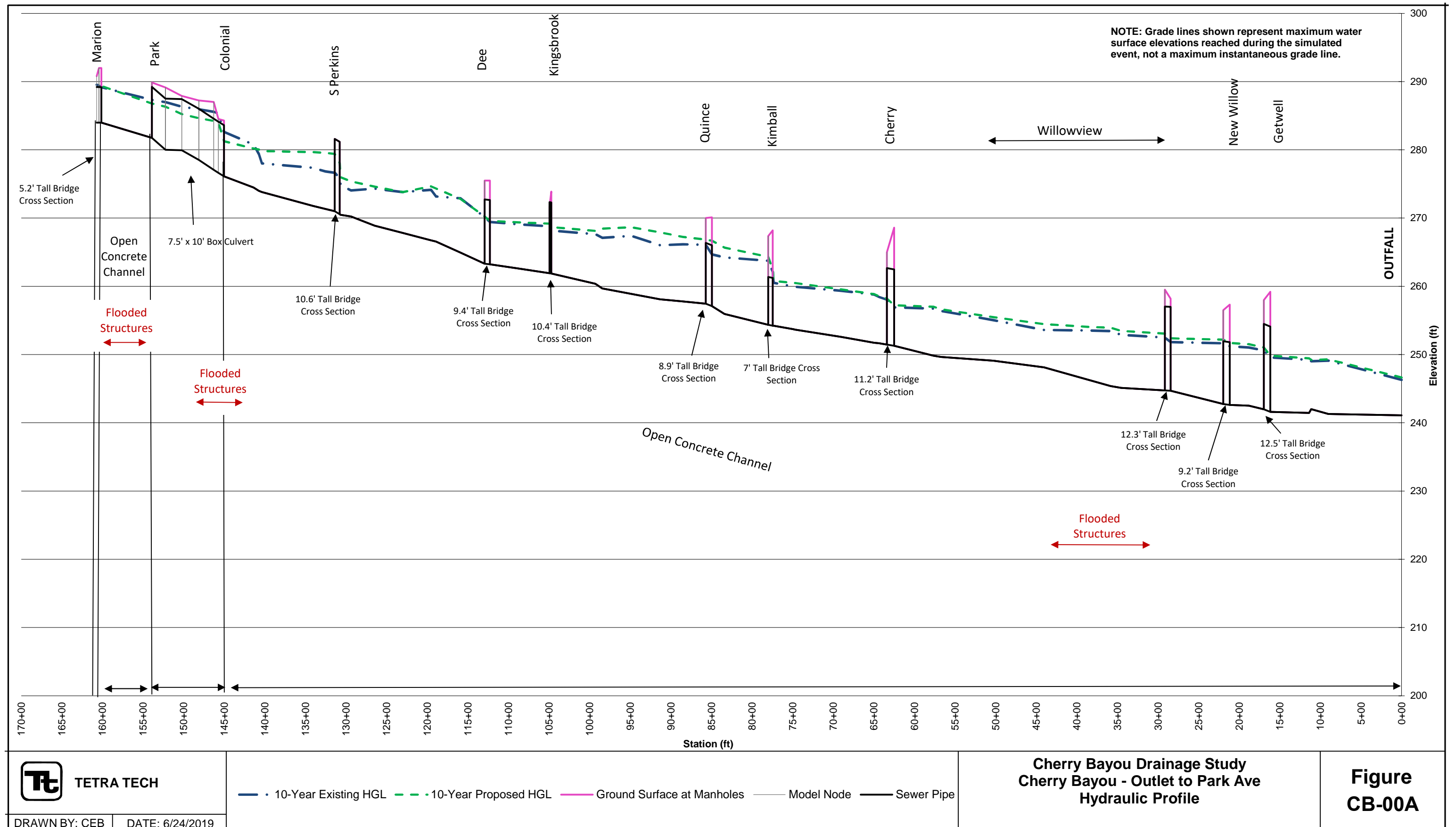


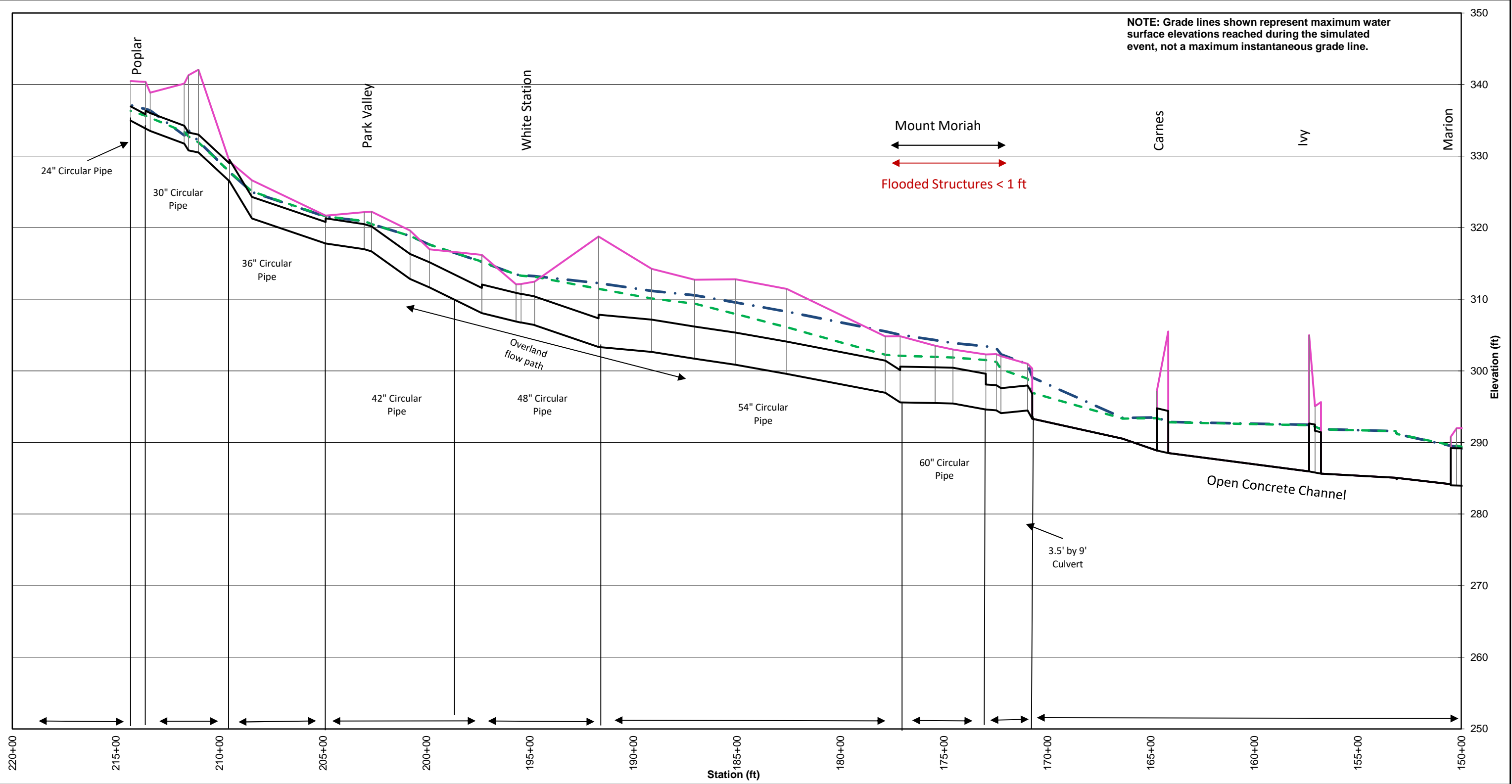



 TETRA TECH	 10-Year Existing HGL  10-Year Proposed HGL  Ground Surface at Manholes  Model Node  Sewer Pipe	Cherry Bayou Drainage Study Goodwin - Elliston to Getwell Hydraulic Profile (Area 5)	Figure GW-15
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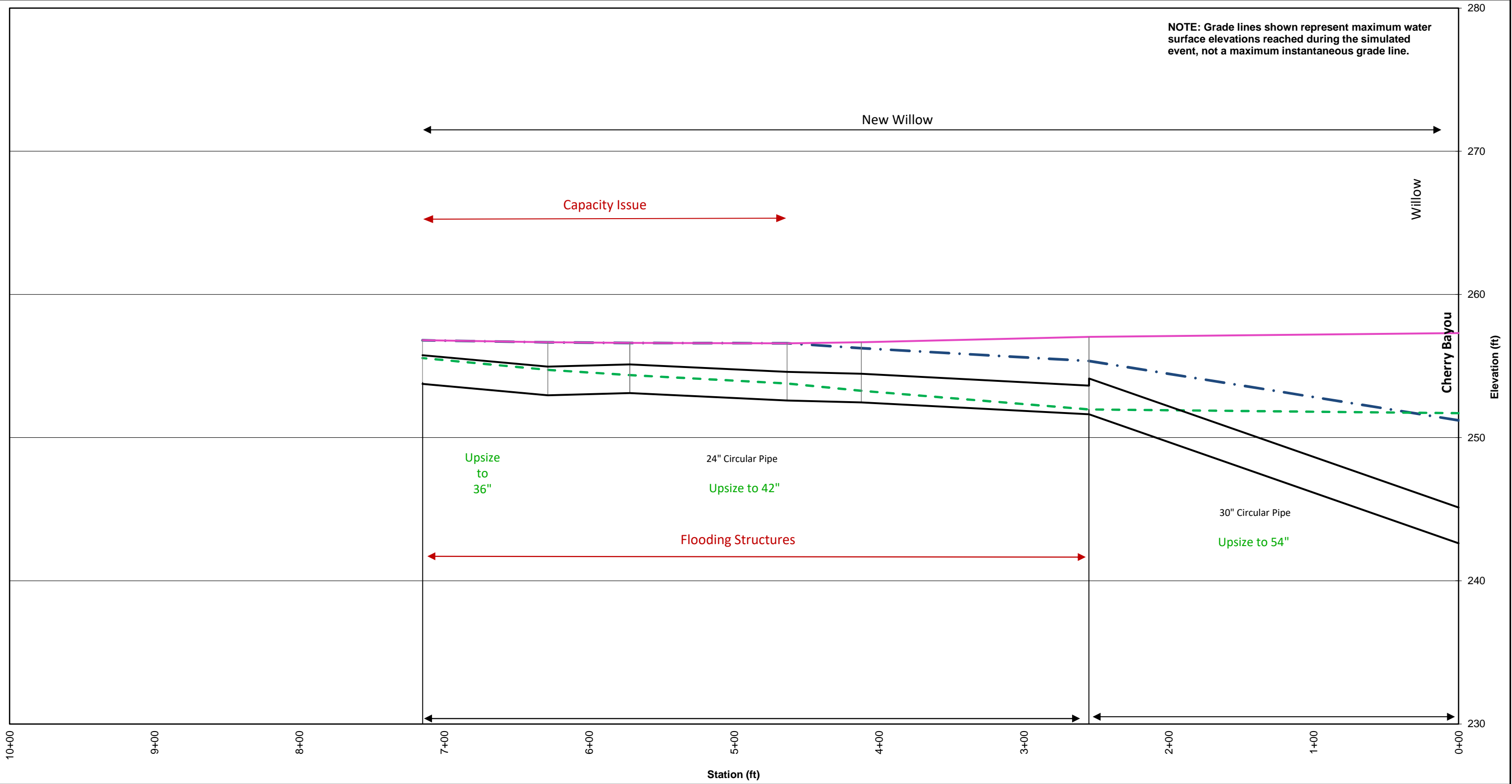


 TETRA TECH	 10-Year Existing HGL  10-Year Proposed HGL  Ground Surface at Manholes  Model Node  Sewer Pipe	Cherry Bayou Drainage Study Goodwin - Delmont to Ivy along Willow Hydraulic Profile (Area 2)	Figure GW-16

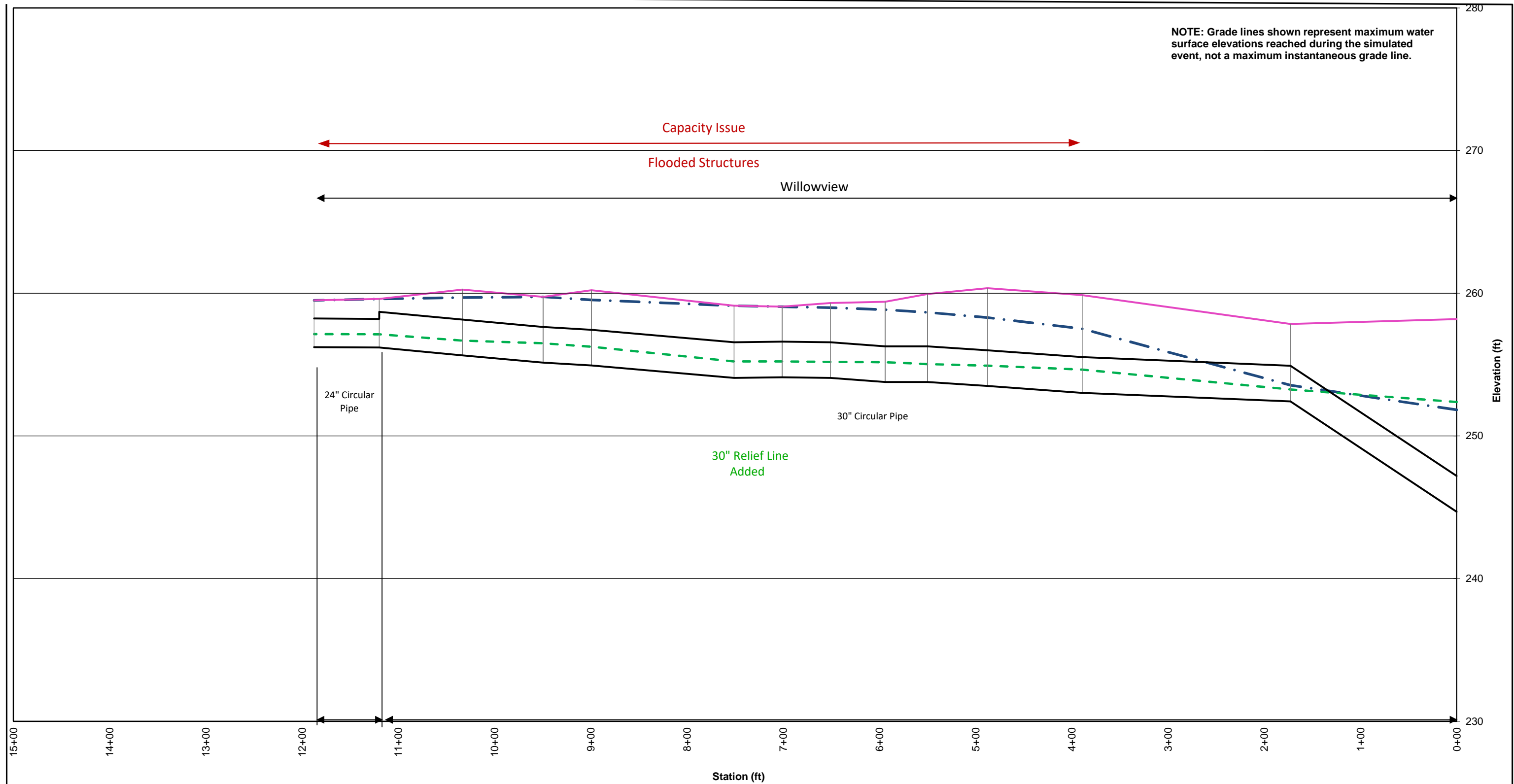




 TETRA TECH	<div>—•— 10-Year Existing HGL - - - 10-Year Proposed HGL — Ground Surface at Manholes — Model Node — Sewer Pipe</div>	Cherry Bayou Drainage Study Cherry Bayou - Park Ave to Poplar Ave Hydraulic Profile (Area 12)	Figure CB-00B
DRAWN BY: CEB DATE: 6/24/2019			



 TETRA TECH	 10-Year Existing HGL  10-Year Proposed HGL  Ground Surface at Manholes  Model Node  Sewer Pipe	Cherry Bayou Drainage Study Cherry Bayou - Main Branch along New Willow Ave	Figure CB-02
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TETRA TECH

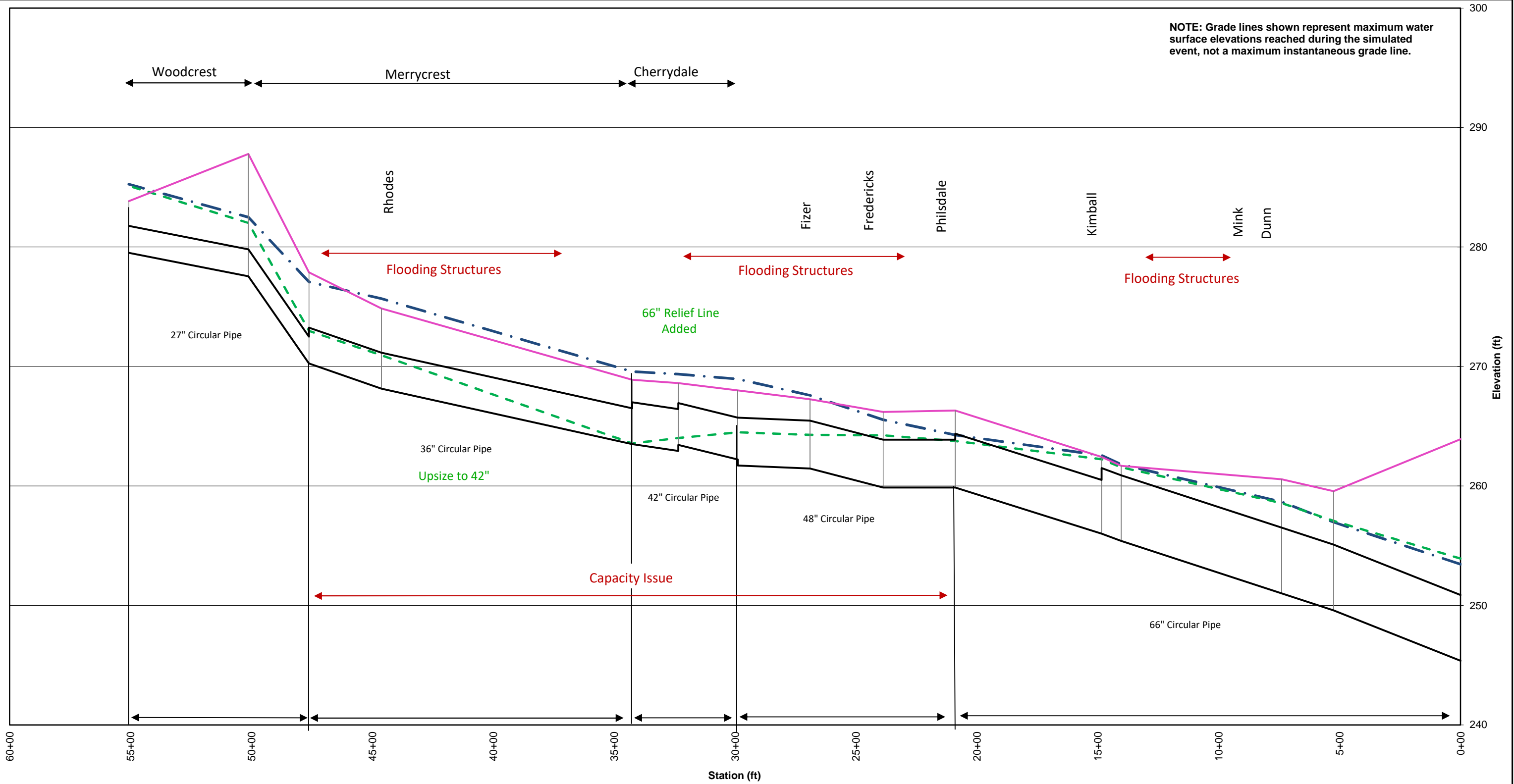
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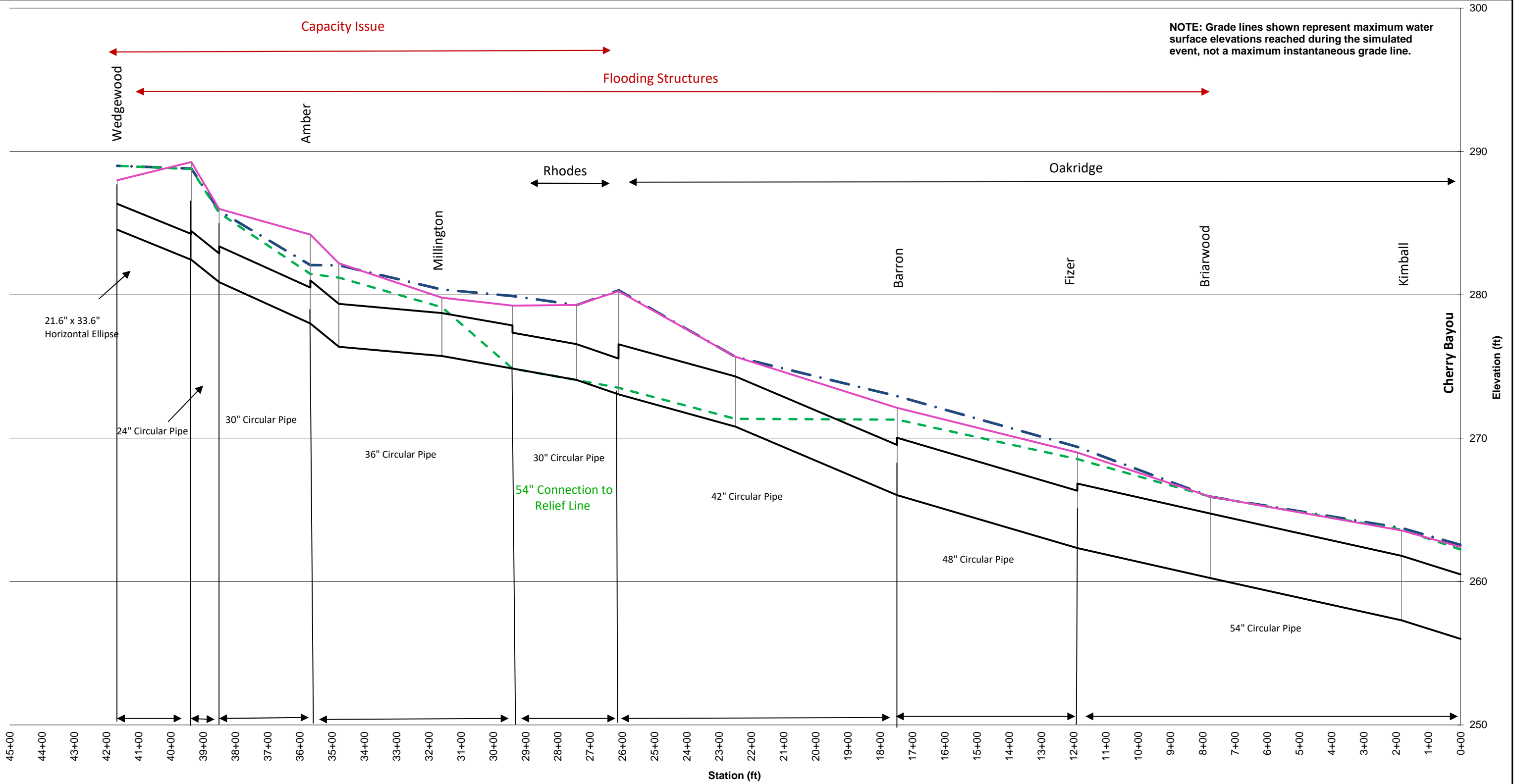
10-Year Existing HGL 10-Year Proposed HGL Ground Surface at Manholes Model Node Sewer Pipe







Cherry Bayou Drainage Study
Cherry Bayou - Main Branch along Willowview Ave

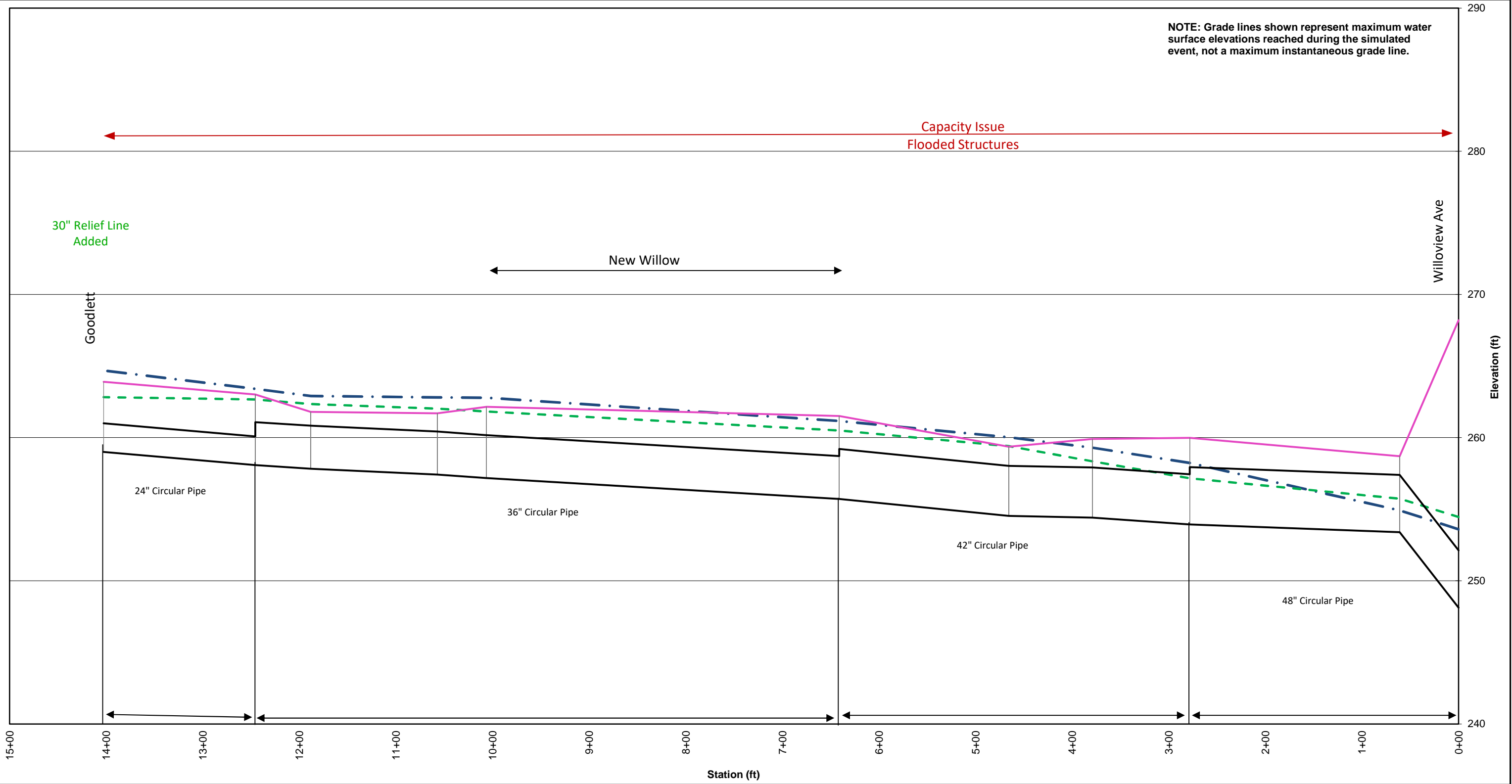
Figure
CB-03



 TETRA TECH	 10-Year Existing HGL  10-Year Proposed HGL  Ground Surface at Manholes  Model Node  Sewer Pipe	Cherry Bayou Drainage Study Cherry Bayou - Main Branch to Woodcrest Dr Hydraulic Profile (Area 7)	Figure CB-05



 TETRA TECH	 10-Year Existing HGL  10-Year Proposed HGL  Ground Surface at Manholes  Model Node  Sewer Pipe	Cherry Bayou Drainage Study Cherry Bayou - Wedgewood to Kimball Hydraulic Profile (Area 7)	Figure CB-05.4



TETRA TECH

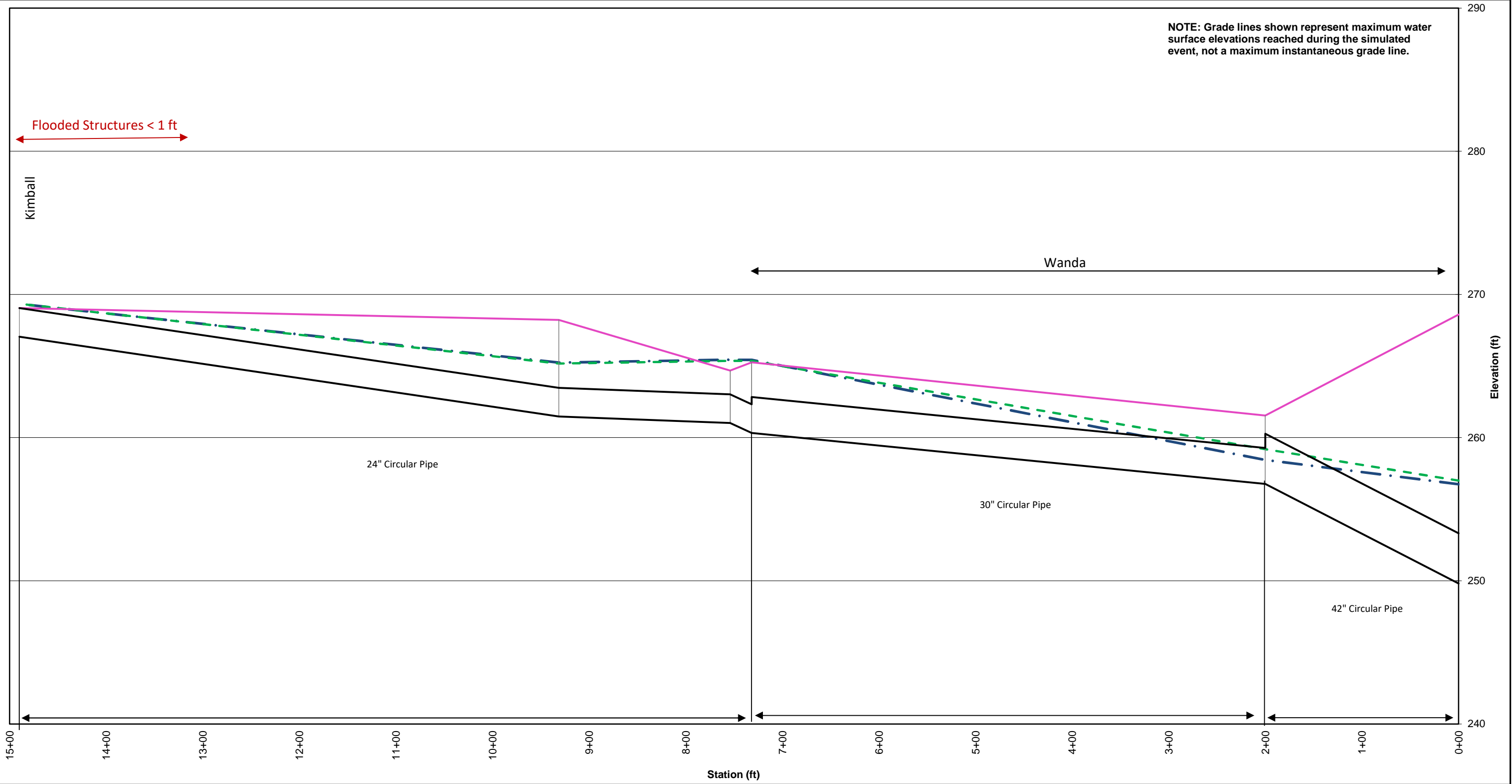
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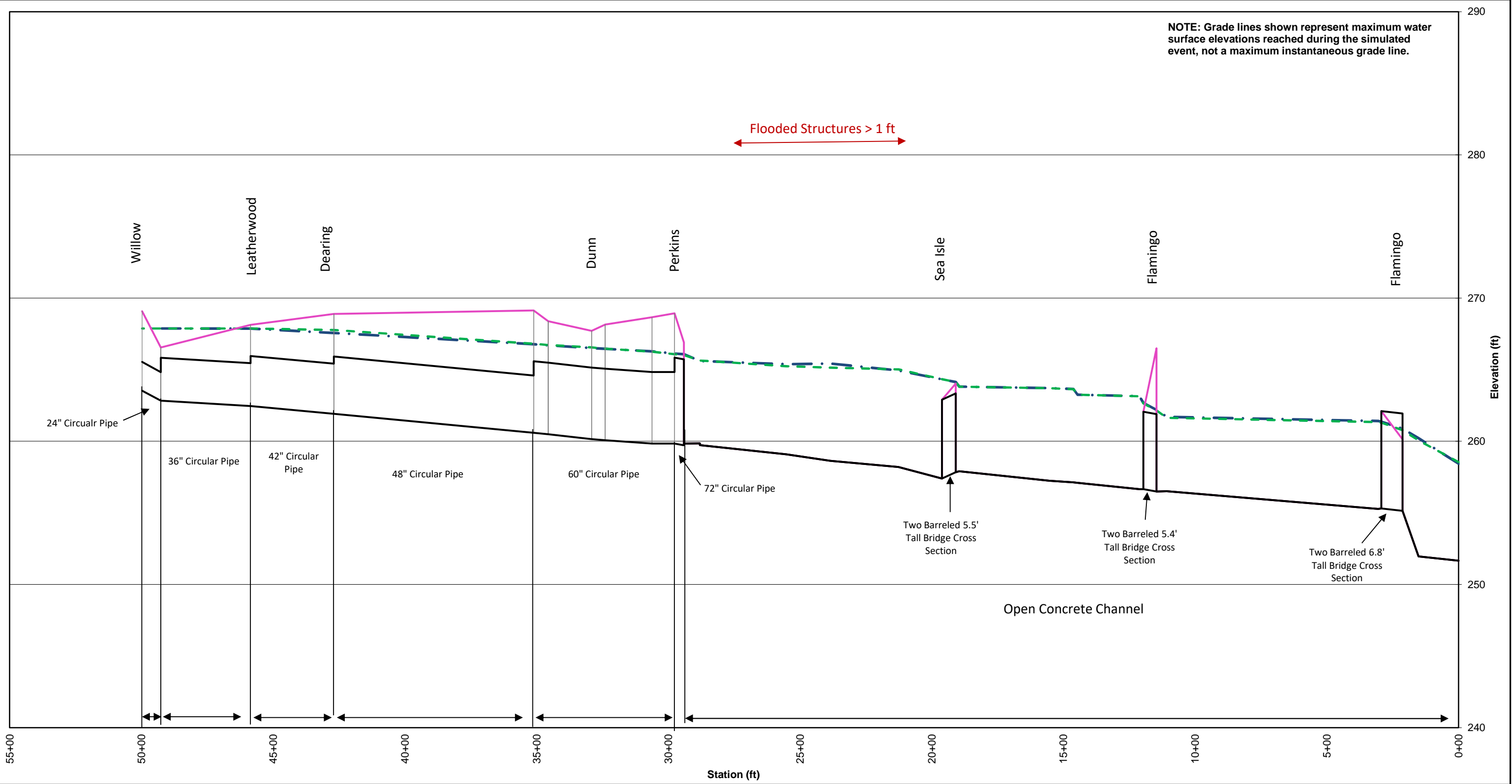
— • — 10-Year Existing HGL — • — 10-Year Proposed HGL — Ground Surface at Manholes — Model Node — Sewer Pipe



Cherry Bayou Drainage Study
Cherry Bayou - Main Branch to Goodlett St
(Area 6)

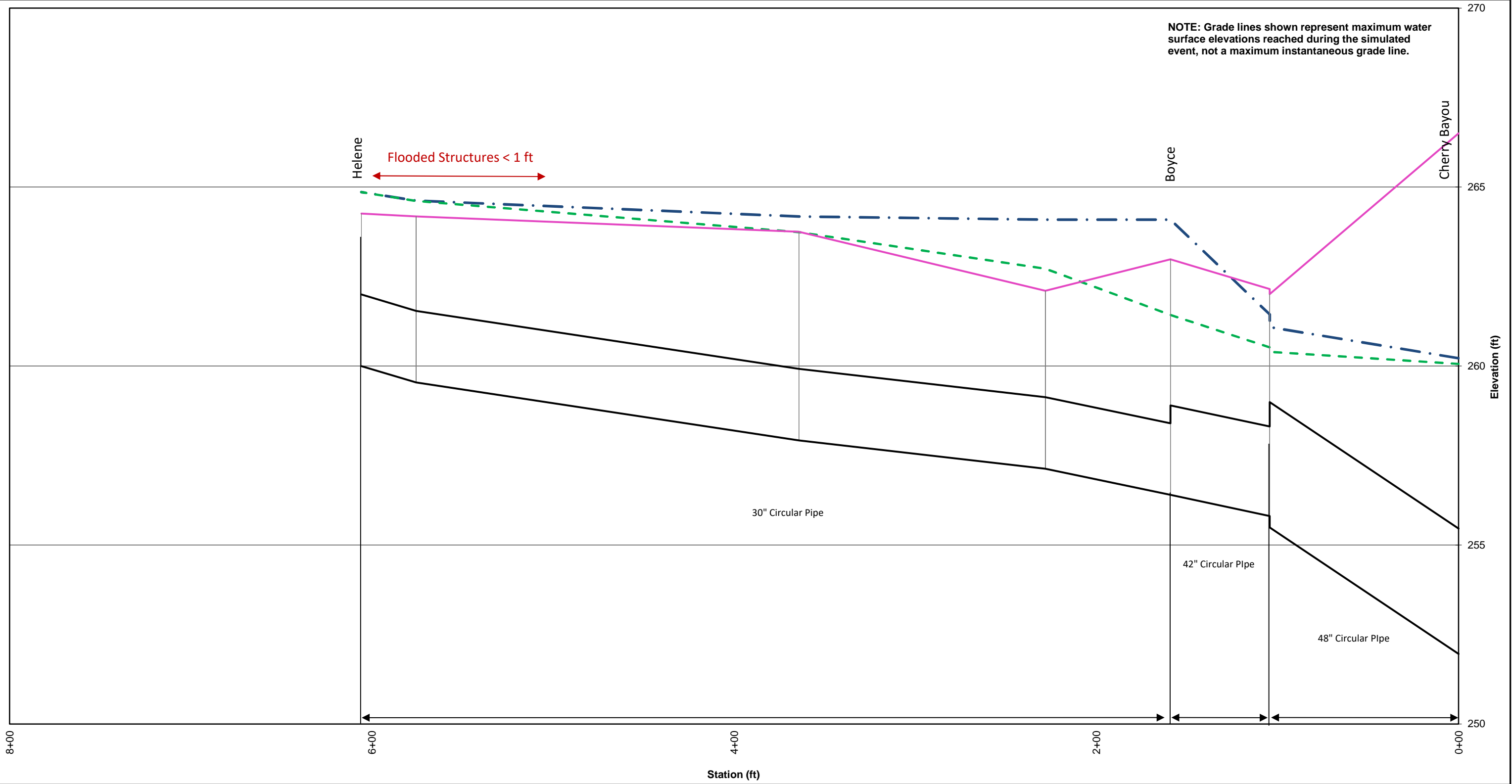
Figure
CB-07









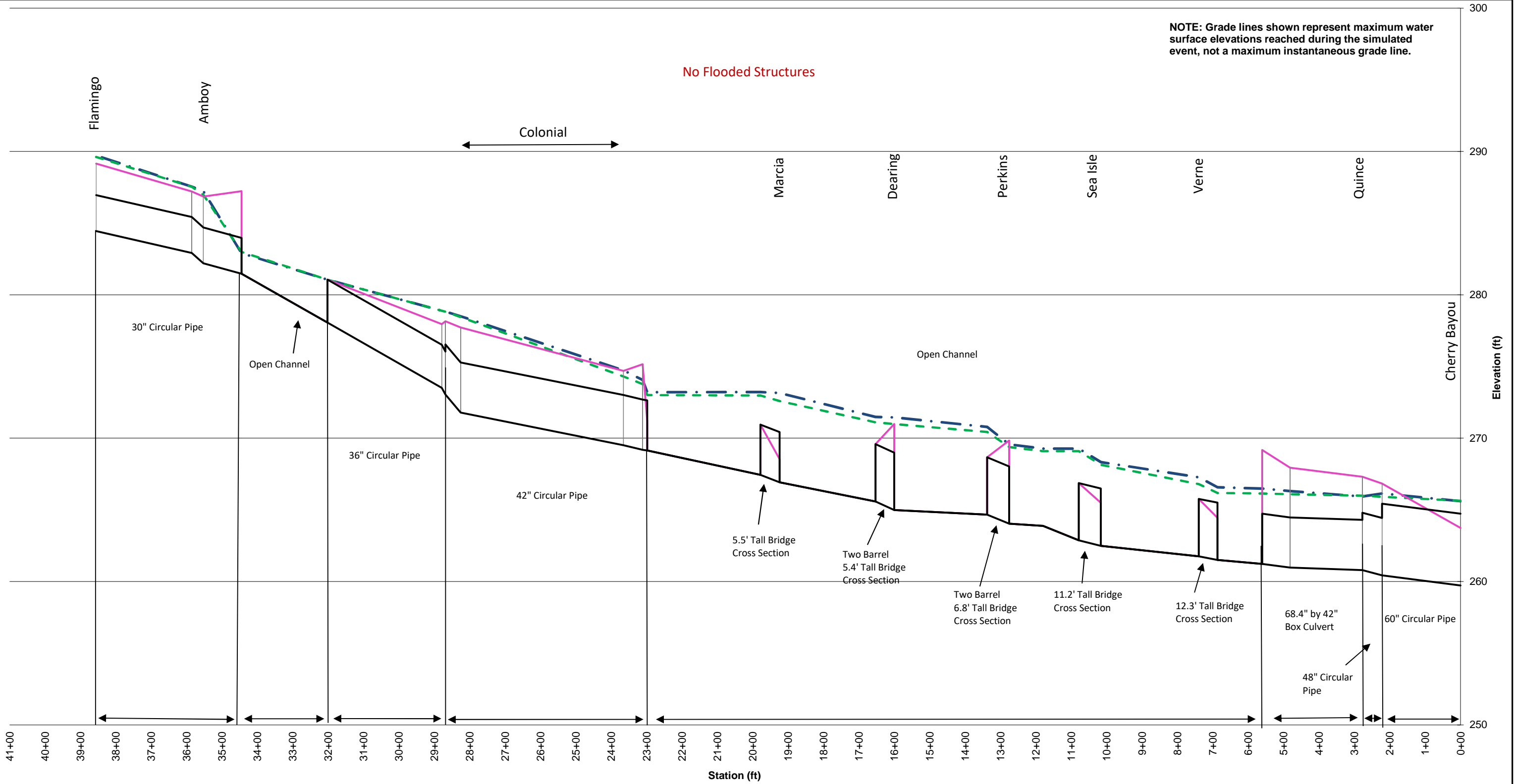
 TETRA TECH	 10-Year Existing HGL  10-Year Proposed HGL  Ground Surface at Manholes  Model Node  Sewer Pipe	Cherry Bayou Drainage Study Cherry Bayou - Main Branch to Kimball Ave Hydraulic Profile (Area 6)	Figure CB-10



 TETRA TECH		Cherry Bayou Drainage Study Cherry Bayou - Main Branch to Willow Rd Hydraulic Profile (Area 8)	Figure CB-12
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 TETRA TECH	 10-Year Existing HGL  10-Year Proposed HGL  Ground Surface at Manholes  Model Node  Sewer Pipe	Cherry Bayou Drainage Study Cherry Bayou - Helene to Cherry Bayou Hydraulic Profile (Area 8)	Figure CB-12.3 CB-12.

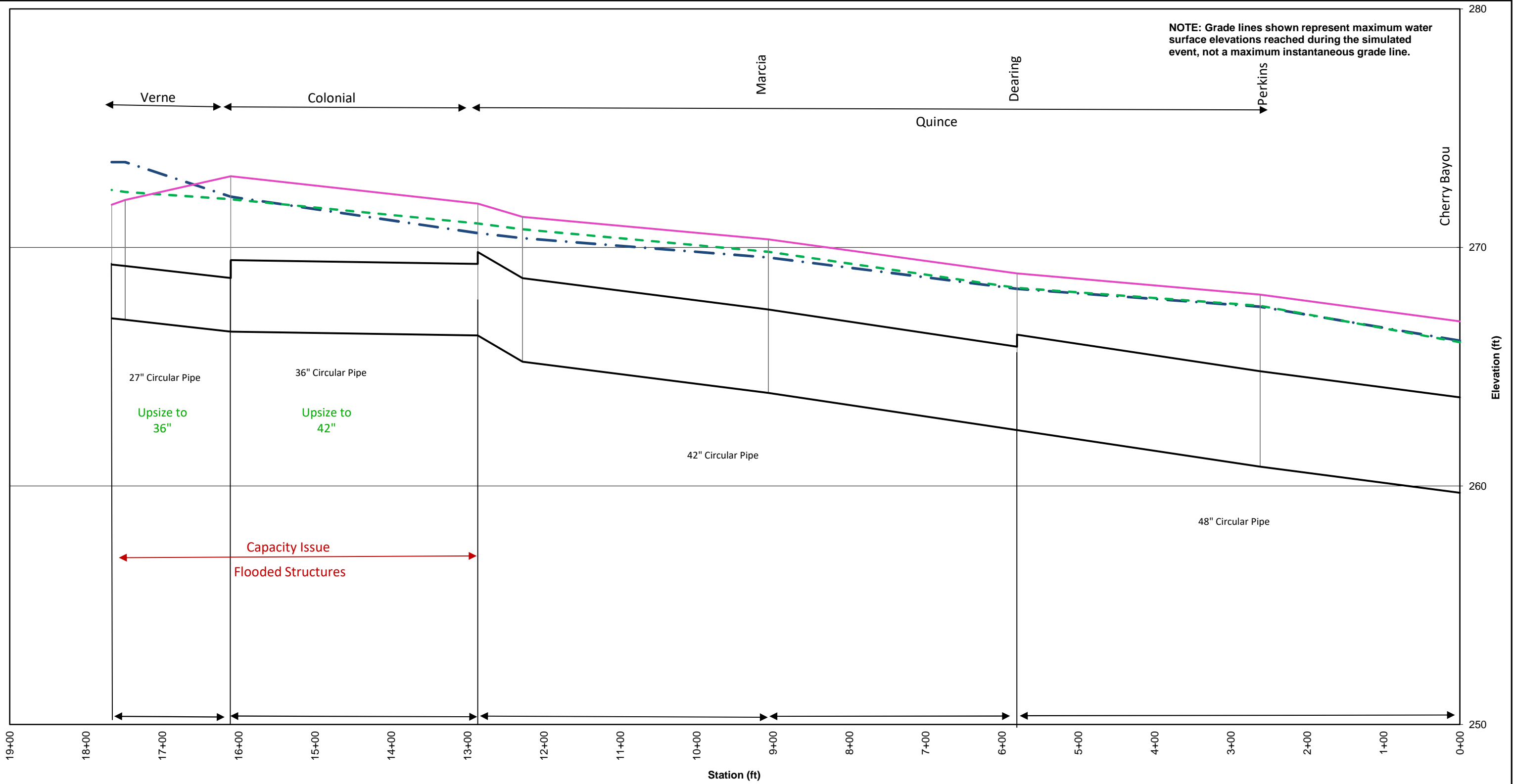


—•— 10-Year Existing HGL - - - 10-Year Proposed HGL — Ground Surface at Manholes — Model Node — Sewer Pipe

Cherry Bayou Drainage Study
Cherry Bayou - Colonial to Dunn
Hydraulic Profile
(Area 8)

Figure
CB-12.6

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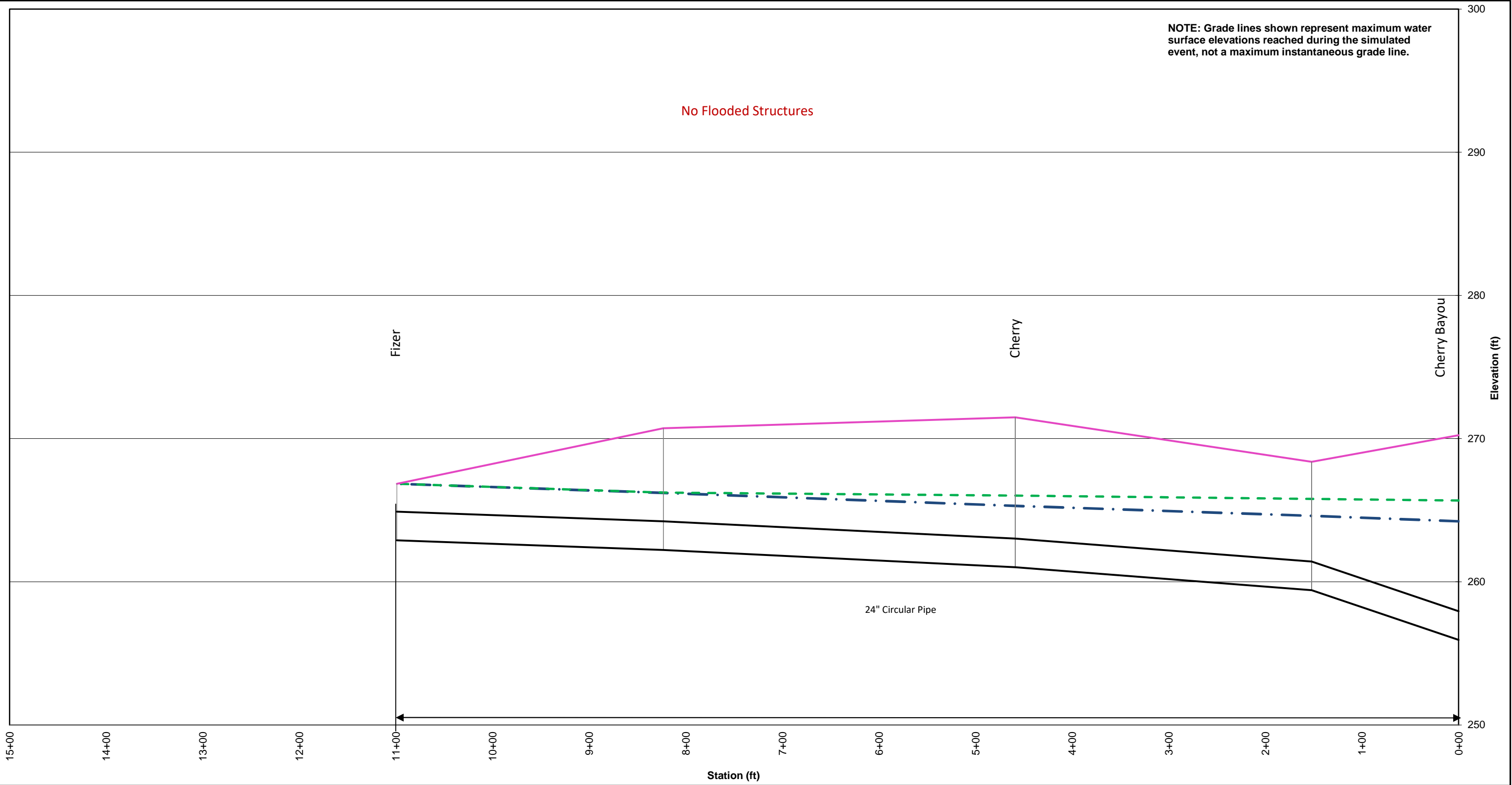


10-Year Existing HGL 10-Year Proposed HGL Ground Surface at Manholes Model Node Sewer Pipe

Cherry Bayou Drainage Study
Cherry Bayou - Flamingo to Dunn
Hydraulic Profile
(Area 8)

Figure
CB-12.8

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TETRA TECH

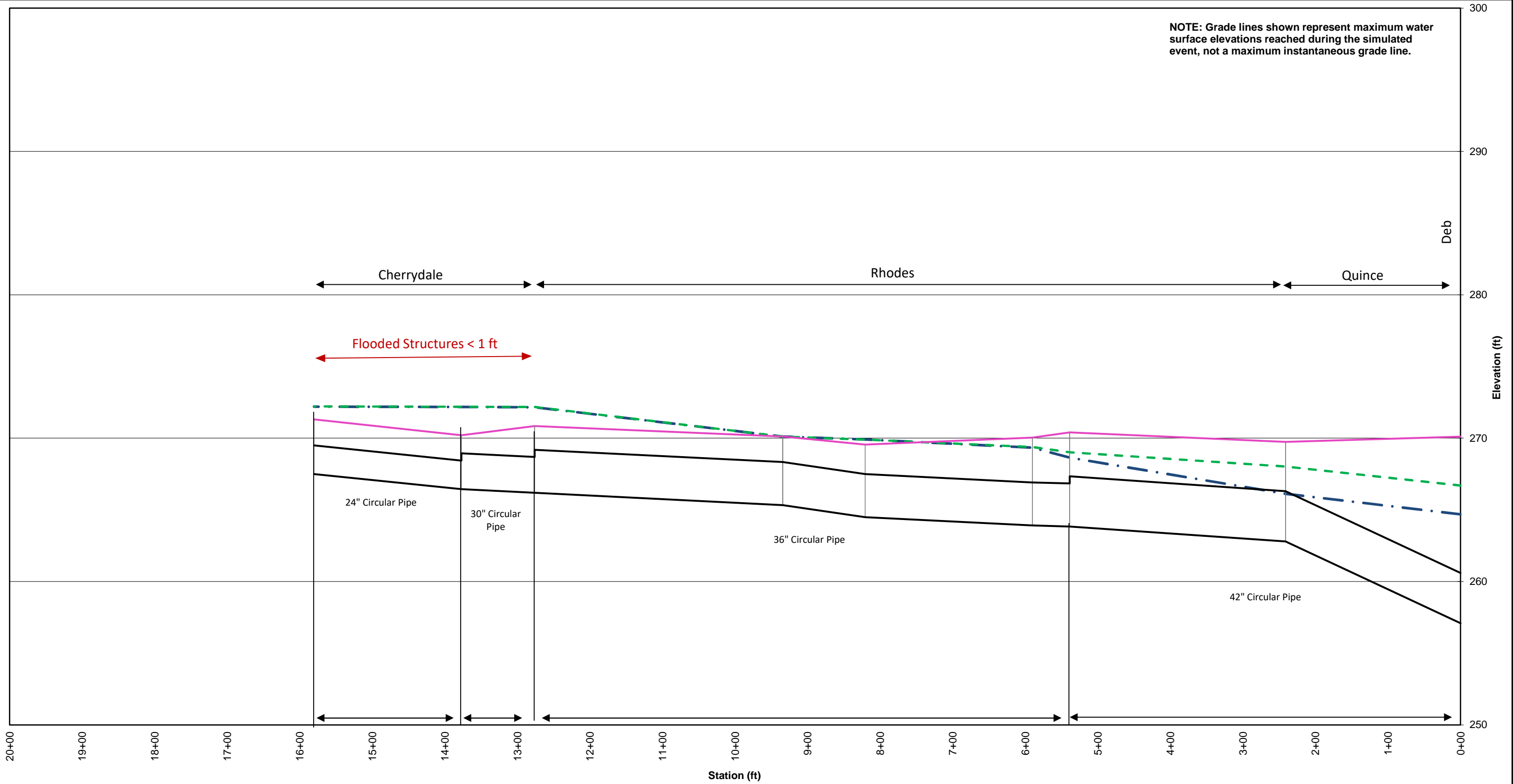
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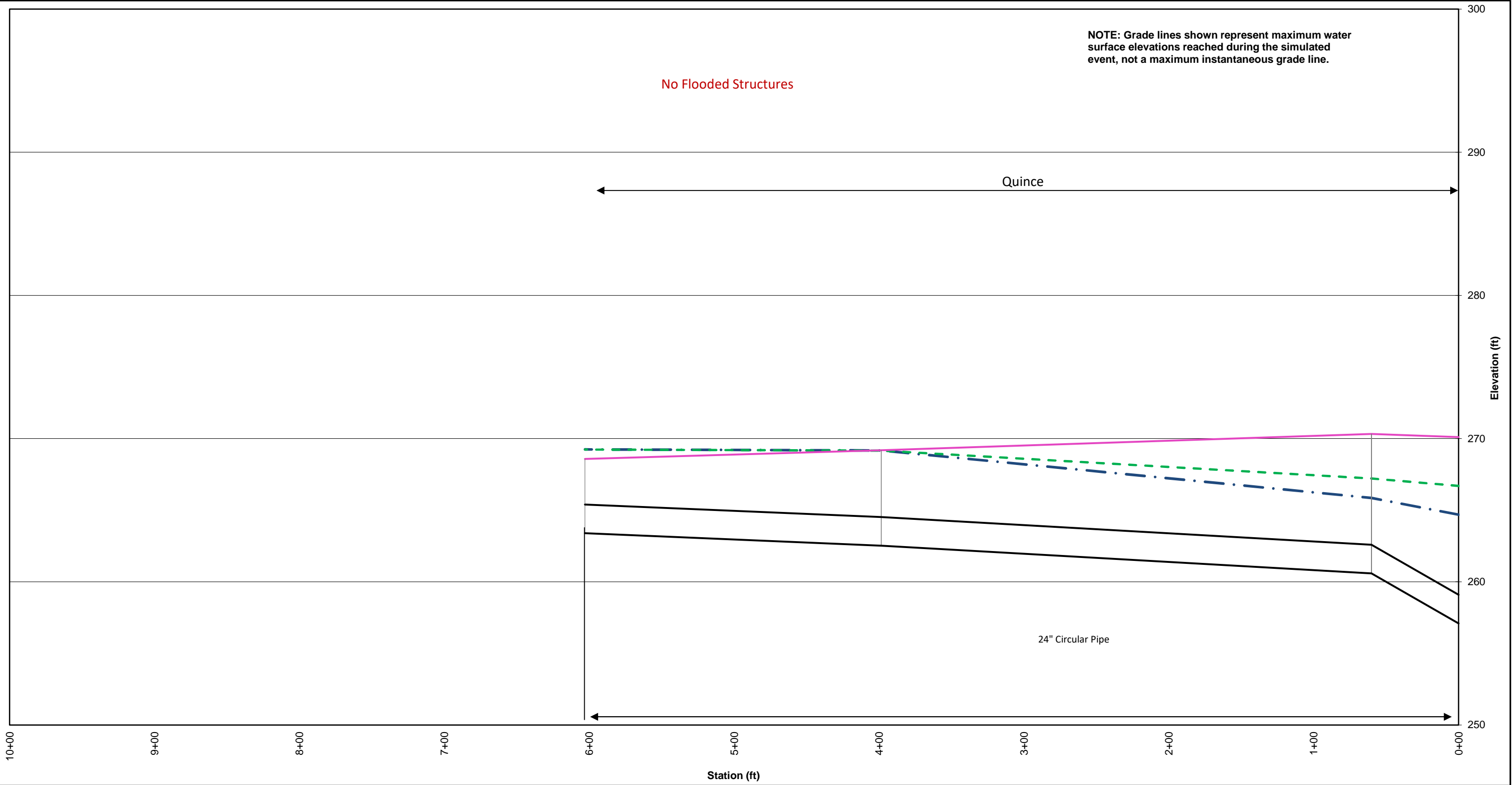
—•— 10-Year Existing HGL — — 10-Year Proposed HGL — Ground Surface at Manholes — Model Node — Sewer Pipe

Cherry Bayou Drainage Study
Cherry Bayou - Main Branch to Fizer Ave
Hydraulic Profile
(Area 6)

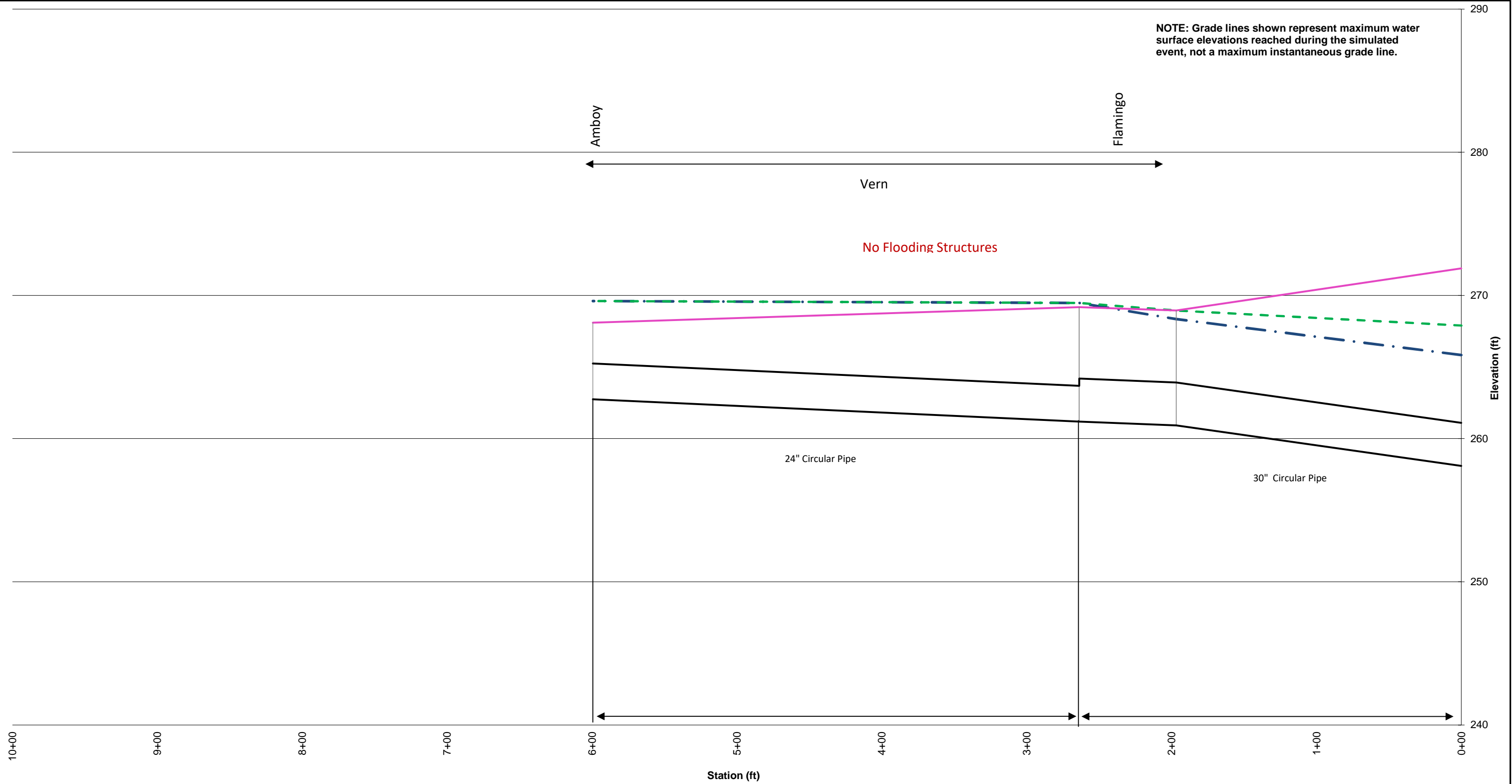
Figure
CB-15



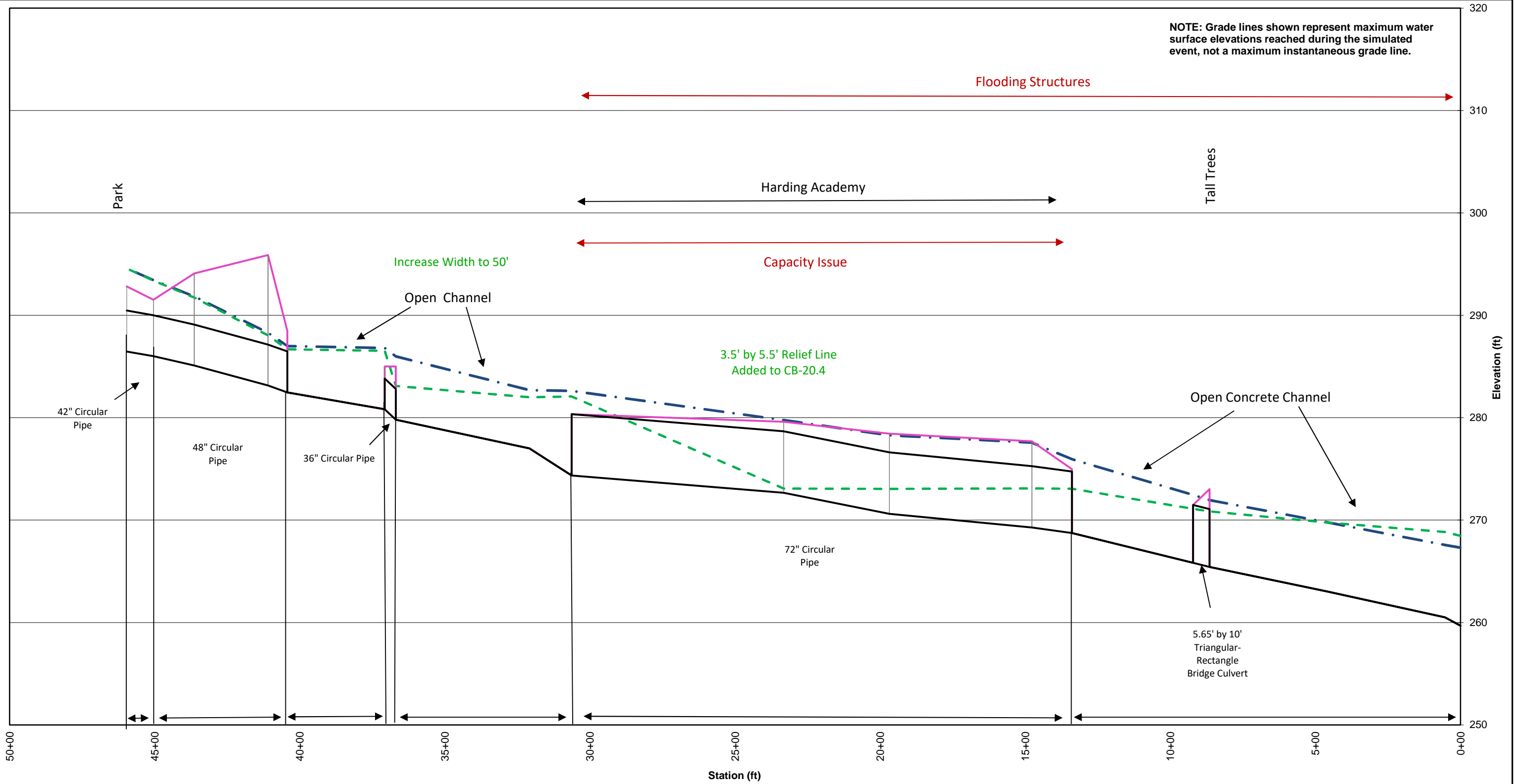
 TETRA TECH	 10-Year Existing HGL  10-Year Proposed HGL  Ground Surface at Manholes  Model Node  Sewer Pipe	Cherry Bayou Drainage Study Cherry Bayou - Main Branch to Cherrydale Ave Hydraulic Profile (Area 6)	Figure CB-16





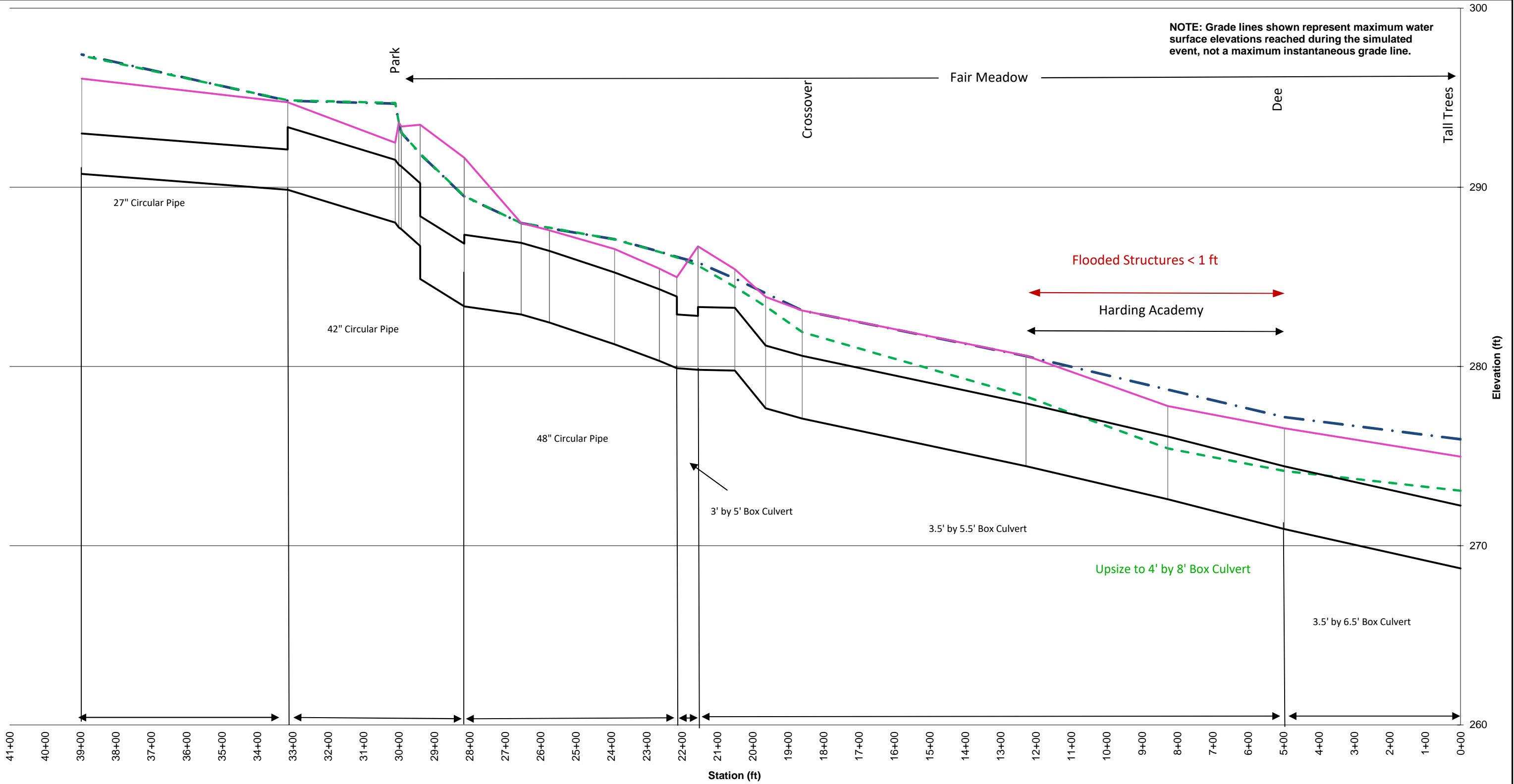
 TETRA TECH	 10-Year Existing HGL  10-Year Proposed HGL  Ground Surface at Manholes  Model Node  Sewer Pipe	Cherry Bayou Drainage Study Cherry Bayou - Main Branch along Quince Rd Hydraulic Profile (Area 6)	Figure CB-17





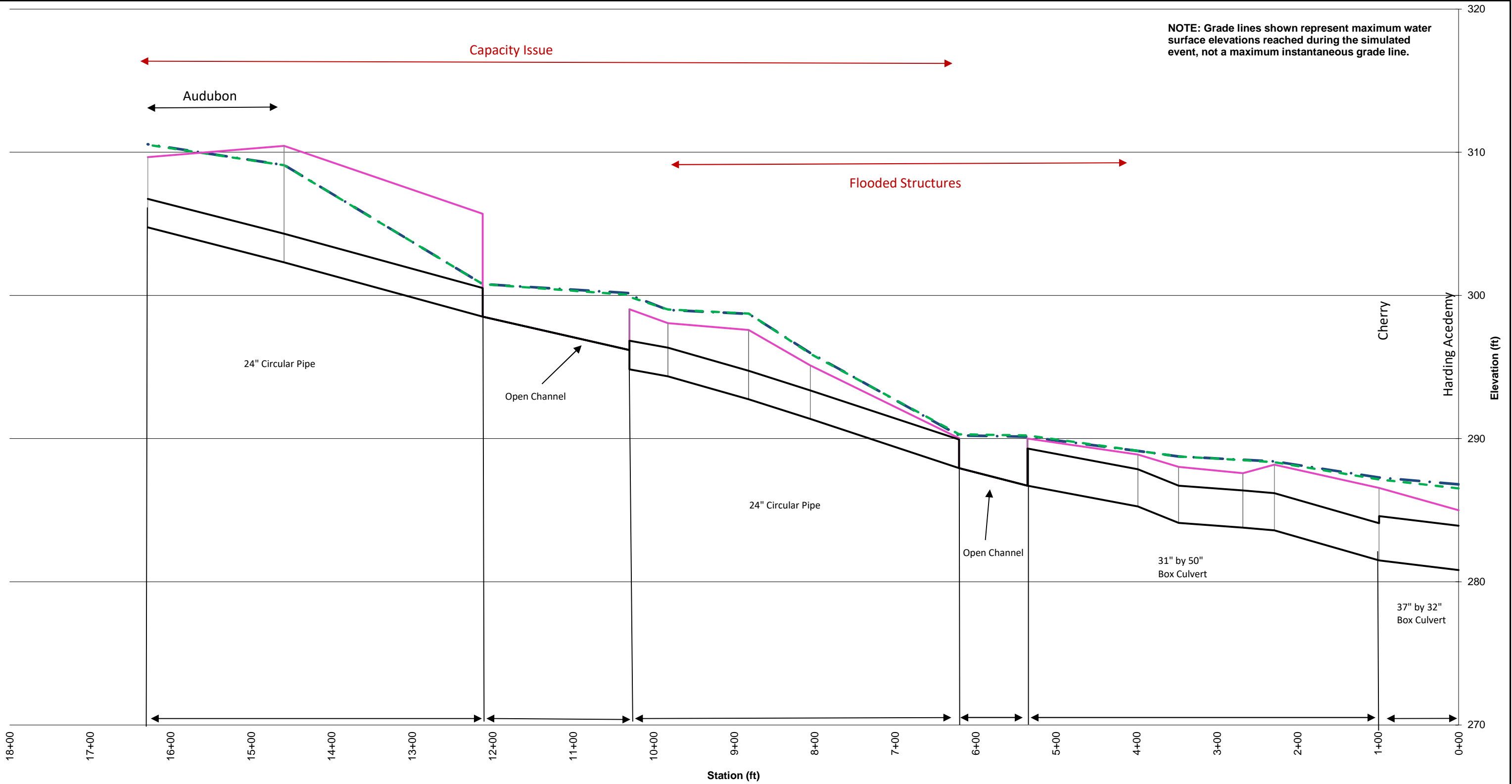
 TETRA TECH	 10-Year Existing HGL  10-Year Proposed HGL  Ground Surface at Manholes  Model Node  Sewer Pipe	Cherry Bayou Drainage Study Cherry Bayou - Main Branch along Verne Rd Hydraulic Profile (Area 1)	Figure CB-19









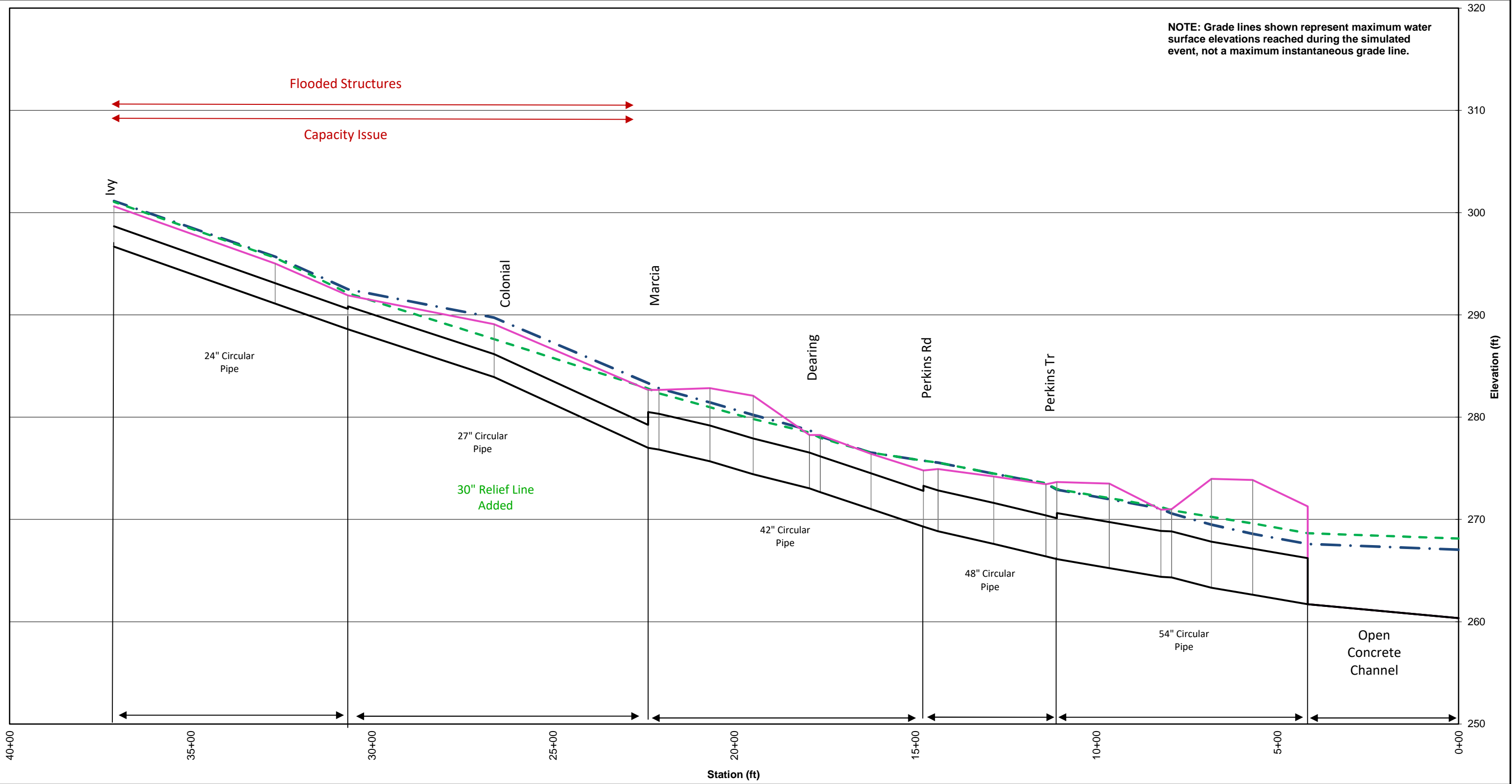
 TETRA TECH		Cherry Bayou Drainage Study Cherry Bayou - Main Branch to Park Ave Hydraulic Profile (Area 9)	Figure CB-20
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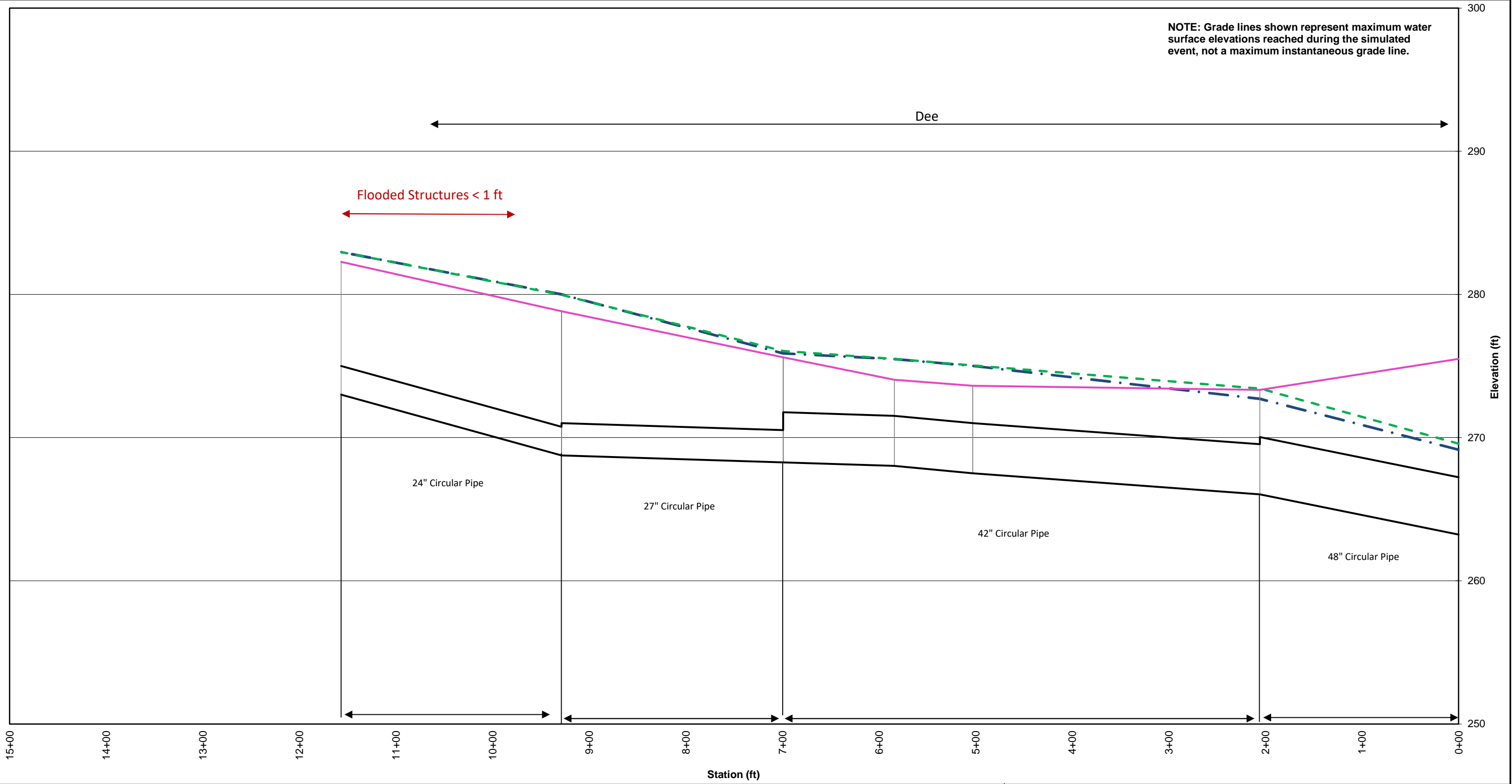
 TETRA TECH		Cherry Bayou Drainage Study Cherry Bayou - Park to South of Harding Academy Hydraulic Profile (Area 9)	Figure CB-20.4



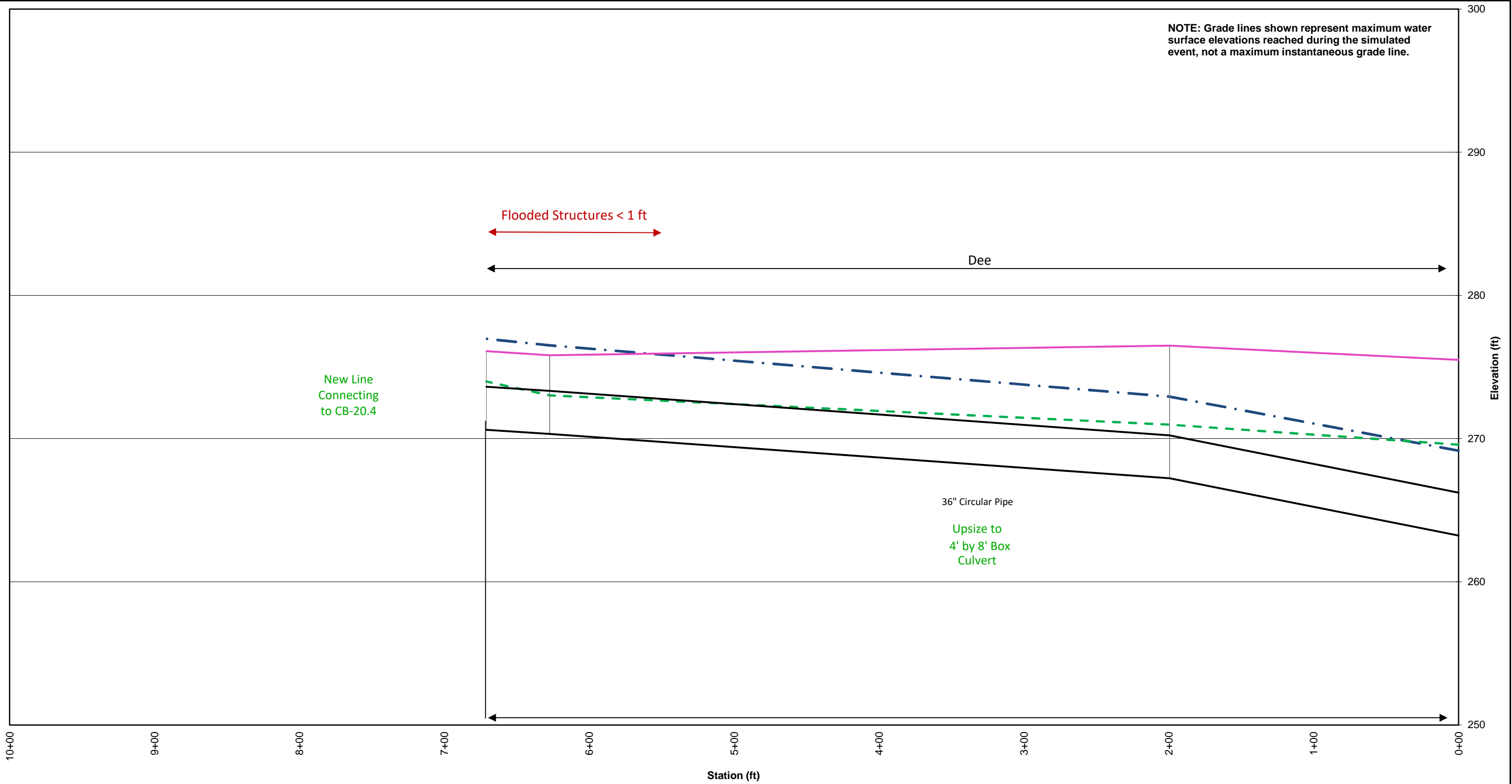
 TETRA TECH	 10-Year Existing HGL  10-Year Proposed HGL  Ground Surface at Manholes  Model Node  Sewer Pipe	Cherry Bayou Drainage Study Cherry Bayou - Audubon to Cherry Hydraulic Profile (Area 9)	Figure CB-20.6 CB-2









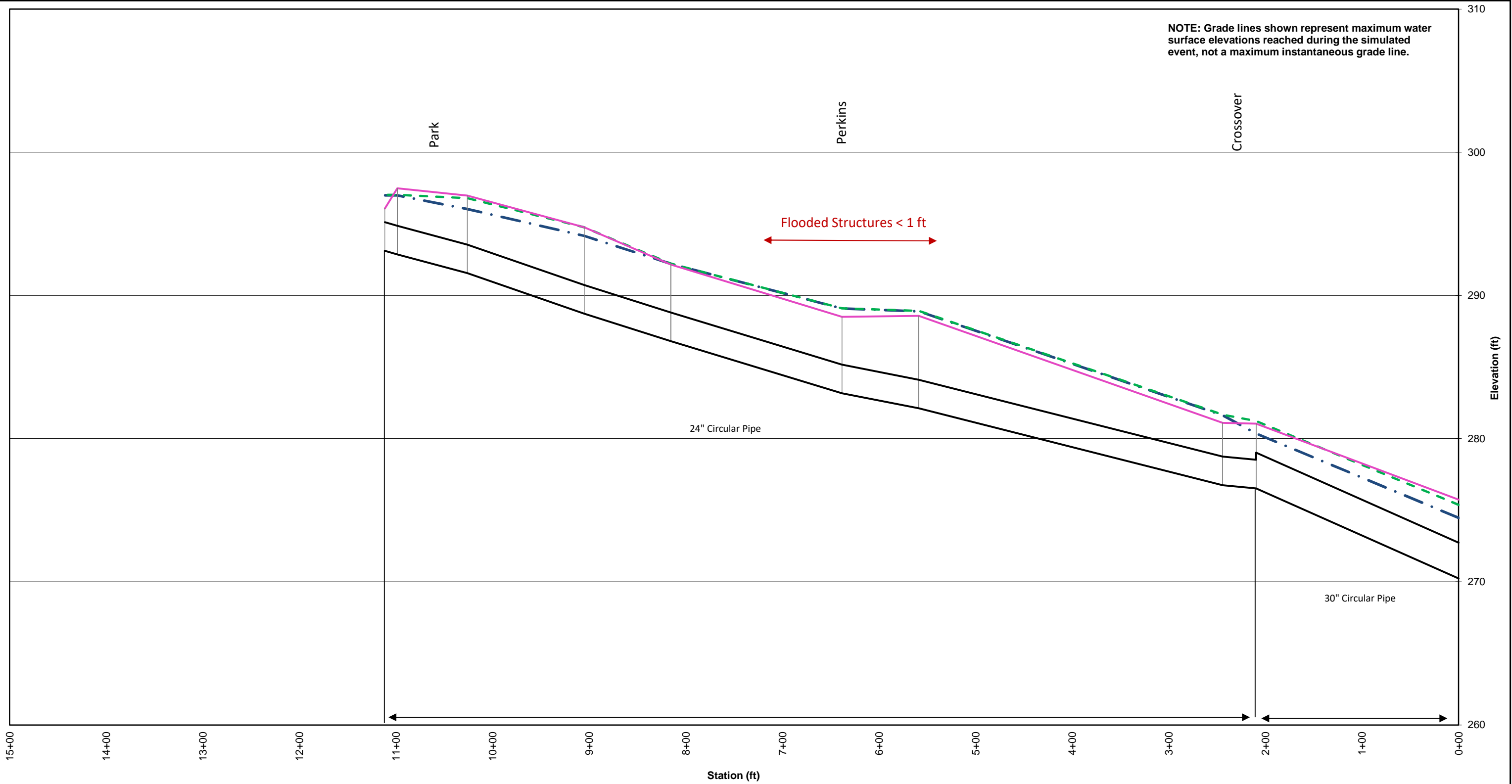
 TETRA TECH		Cherry Bayou Drainage Study Cherry Bayou - Main Branch to Ivy Rd Hydraulic Profile (Area 10)	Figure CB-21









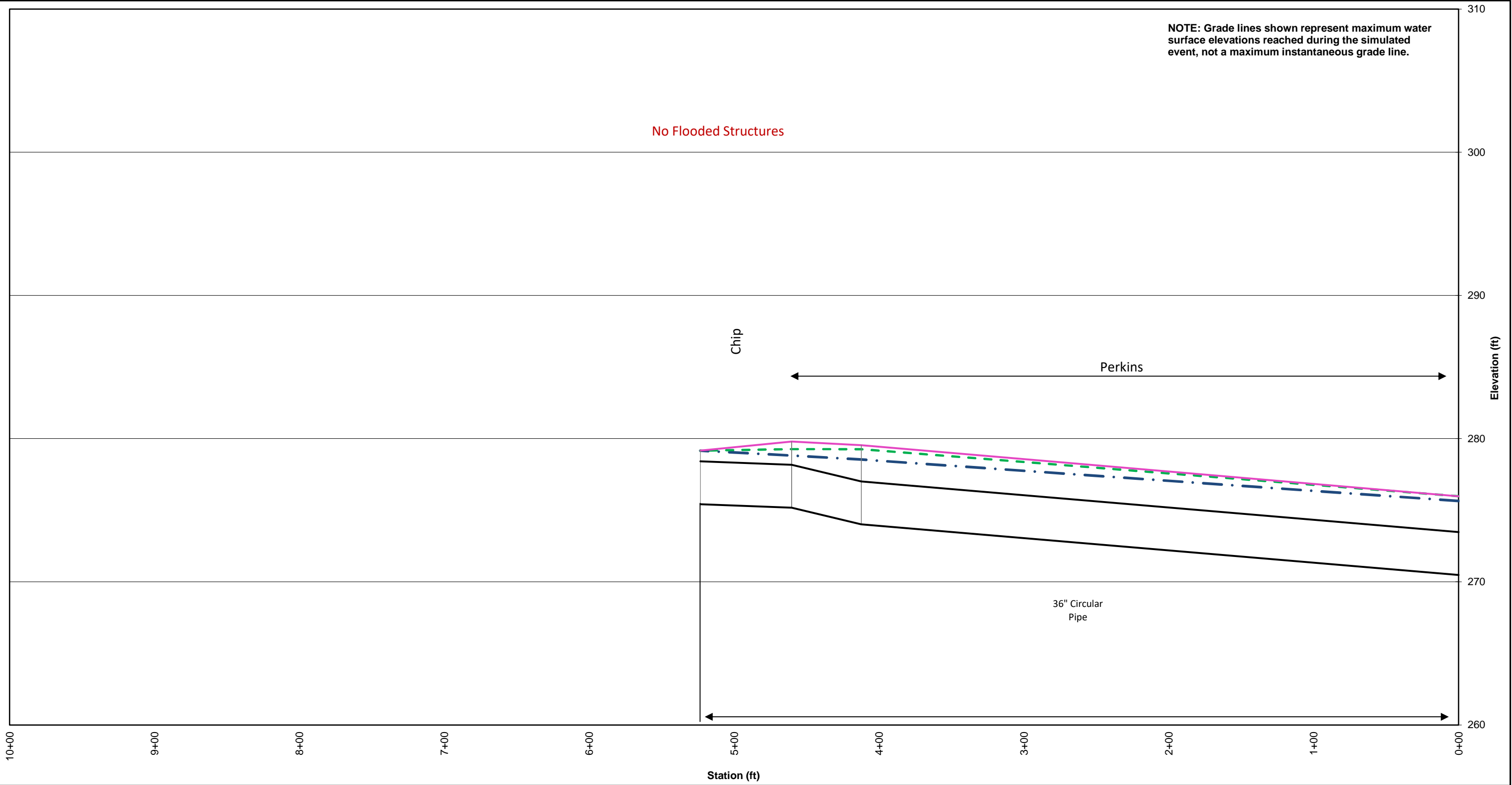
 TETRA TECH	 10-Year Existing HGL  10-Year Proposed HGL  Ground Surface at Manholes  Model Node  Sewer Pipe	Cherry Bayou Drainage Study Cherry Bayou - Main Branch to Dearing Rd Hydraulic Profile (Area 10)	Figure CB-22
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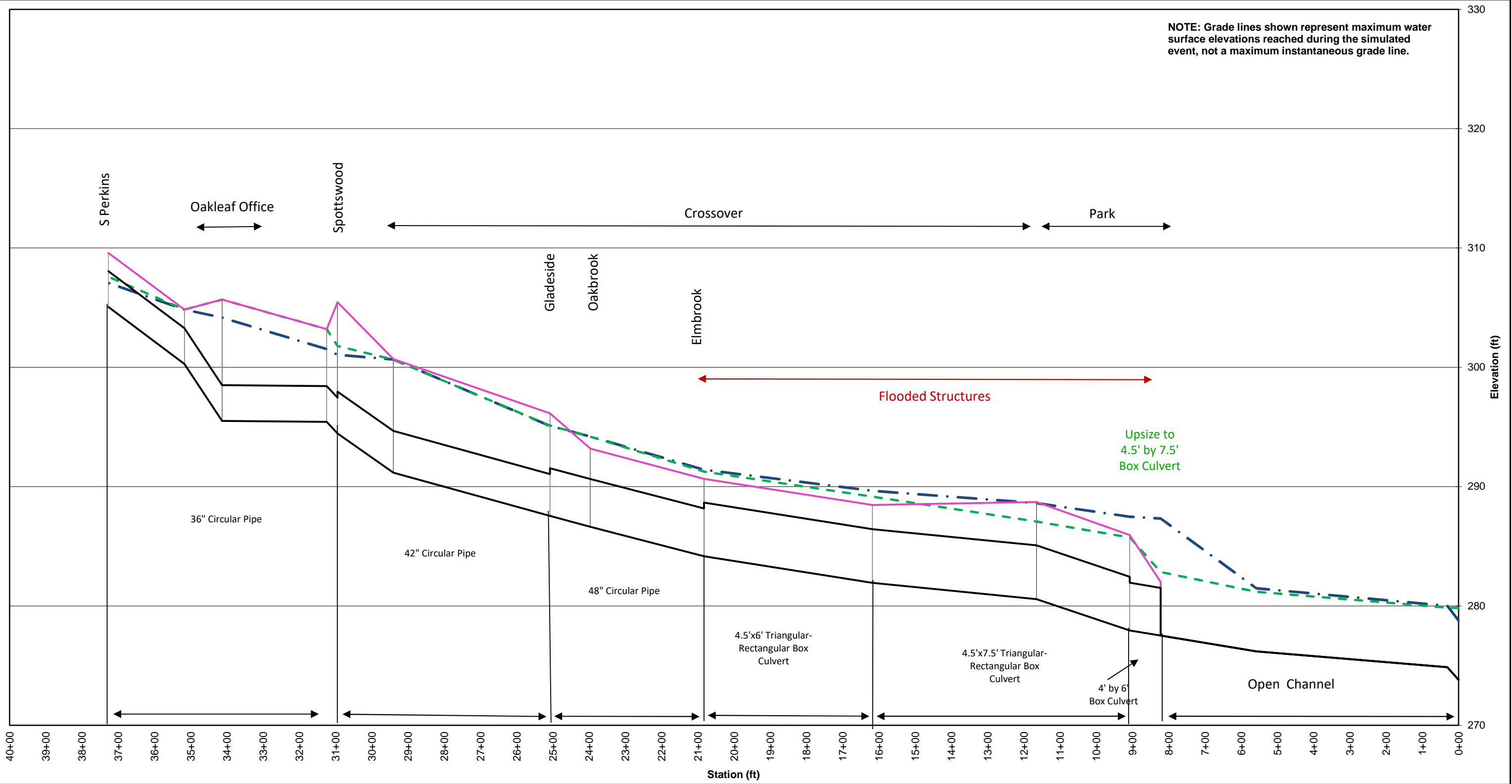
 TETRA TECH	 10-Year Existing HGL  10-Year Proposed HGL  Ground Surface at Manholes  Model Node  Sewer Pipe	Cherry Bayou Drainage Study Cherry Bayou - Main Branch to Fair Meadow Rd Hydraulic Profile (Area 10)	Figure CB-23
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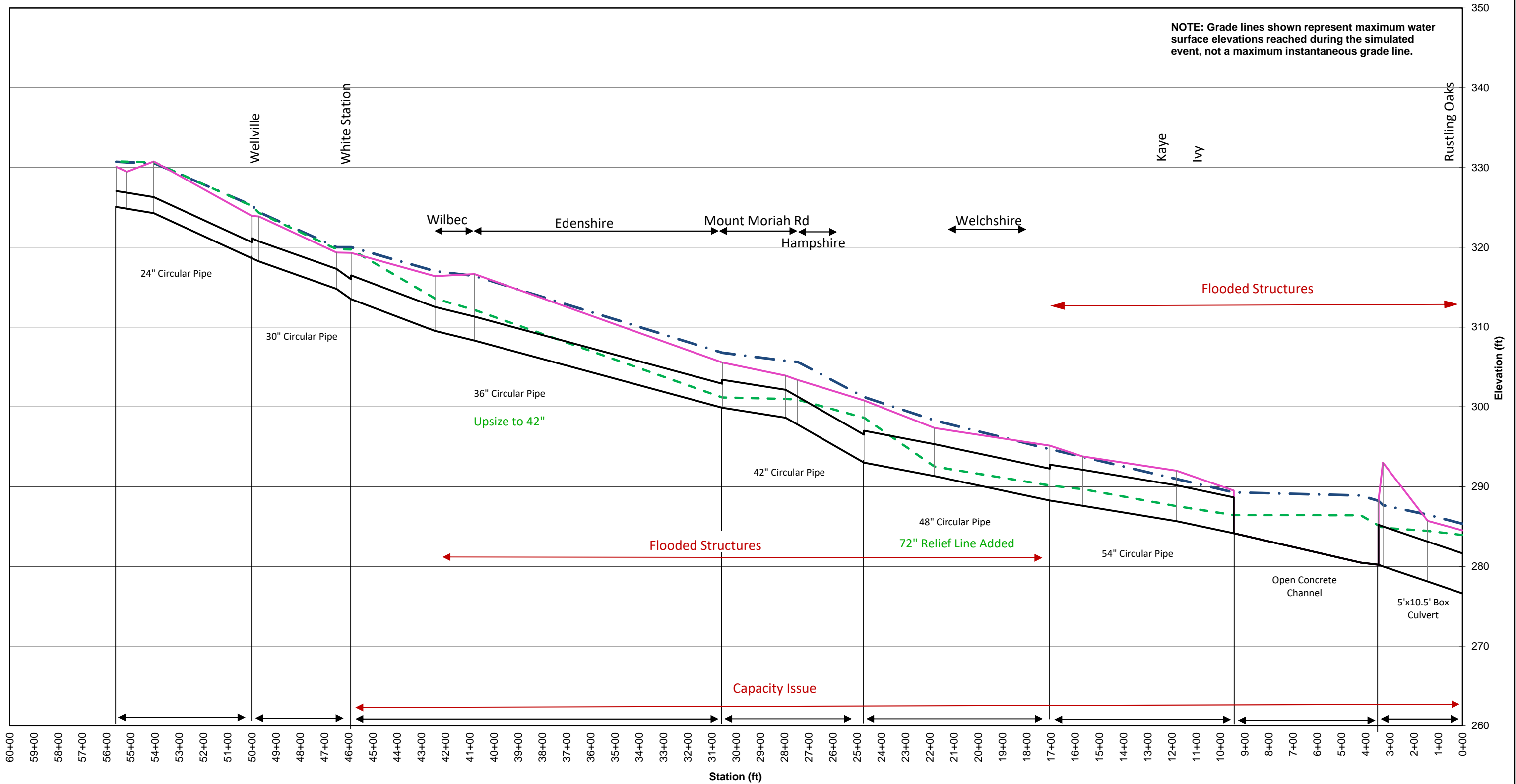
 TETRA TECH	 10-Year Existing HGL  10-Year Proposed HGL  Ground Surface at Manholes  Model Node  Sewer Pipe	Cherry Bayou Drainage Study Cherry Bayou - Main Branch to Park Ave Hydraulic Profile (Area 10)	Figure CB-25




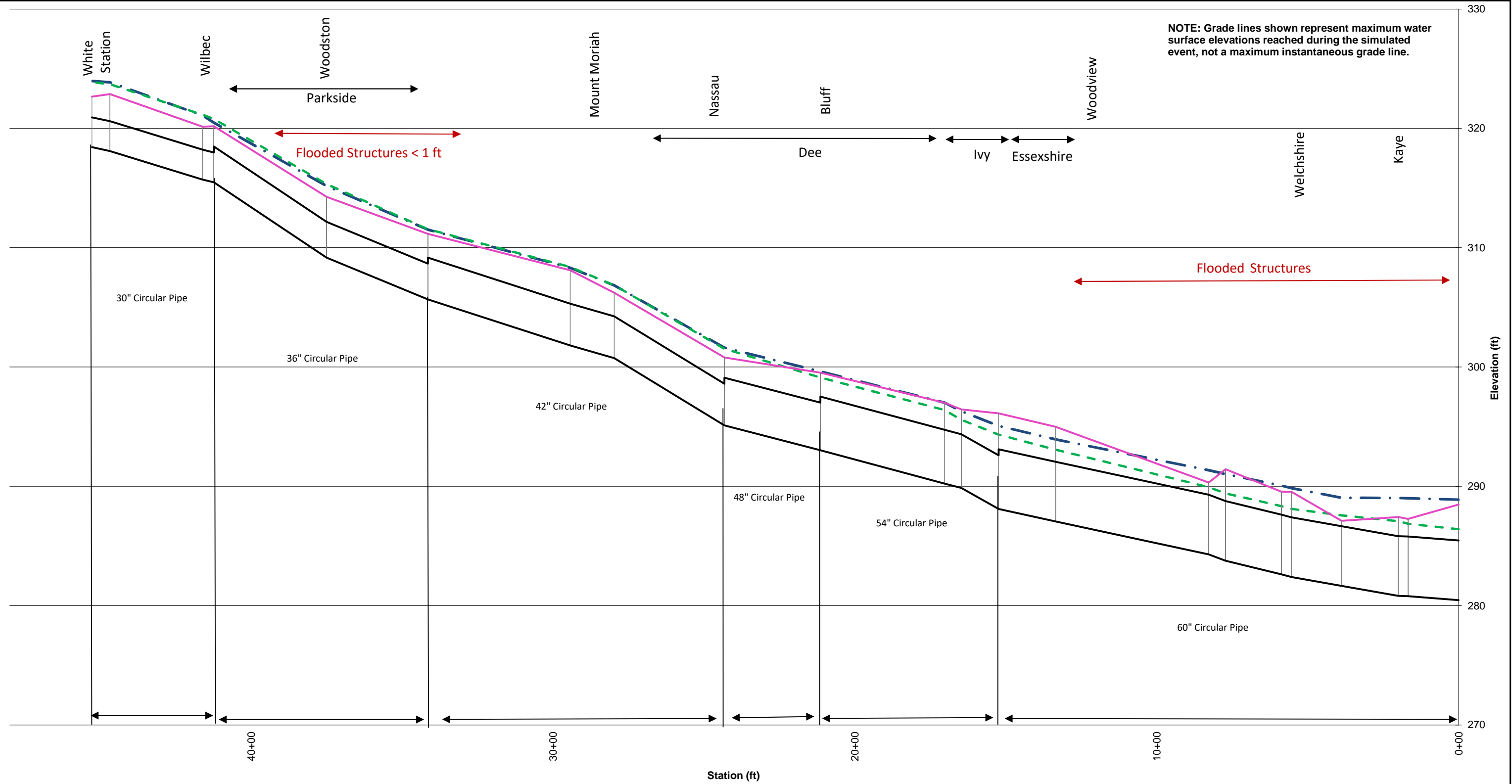
 TETRA TECH	 10-Year Existing HGL  10-Year Proposed HGL  Ground Surface at Manholes  Model Node  Sewer Pipe	Cherry Bayou Drainage Study Cherry Bayou - Main Branch to Chip Rd Hydraulic Profile (Area 10)	Figure CB-26




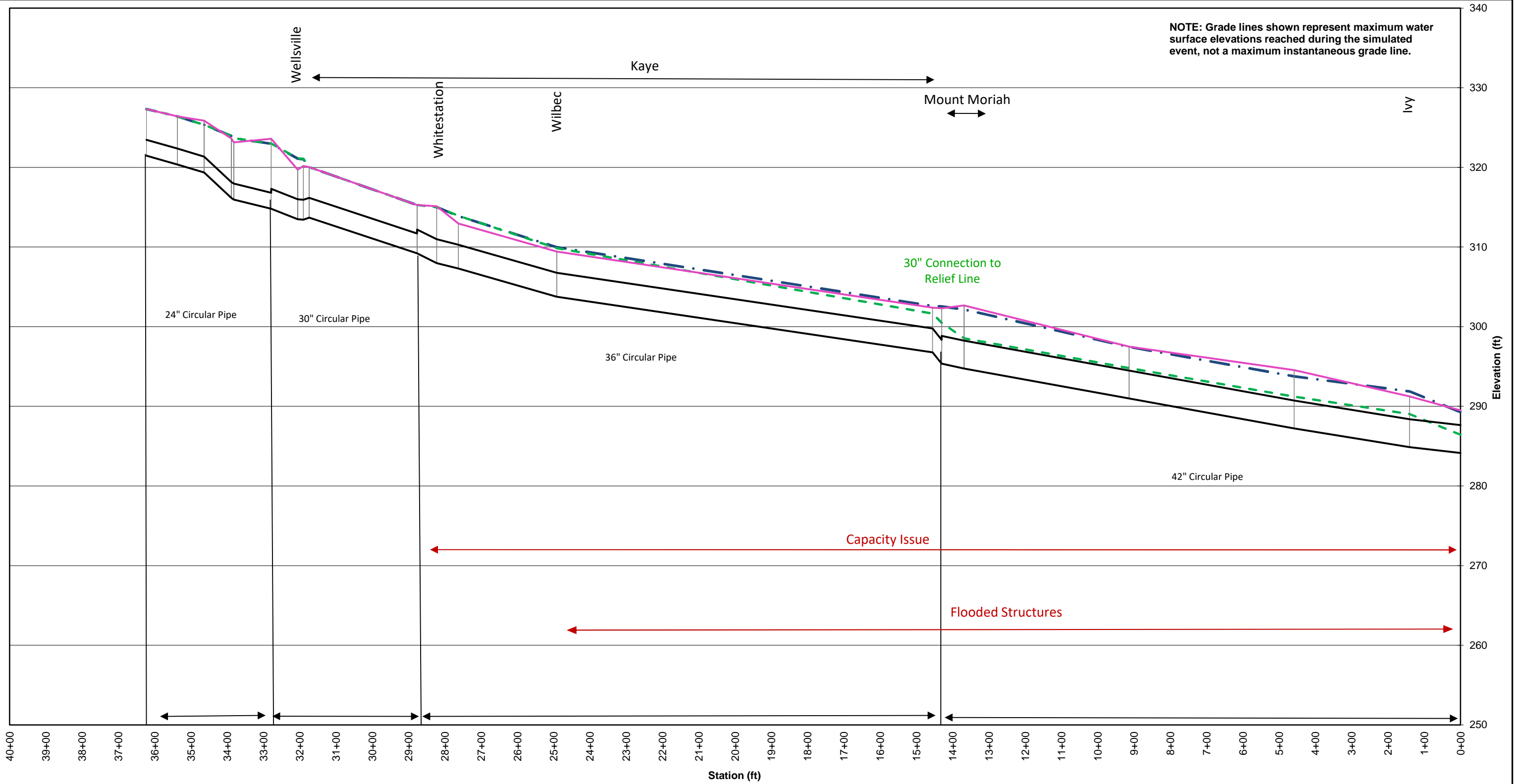
 TETRA TECH	<div>—•— 10-Year Existing HGL - - - 10-Year Proposed HGL — Ground Surface at Manholes — Model Node — Sewer Pipe</div>	Cherry Bayou Drainage Study Cherry Bayou - Main Branch to Perkins Rd Hydraulic Profile (Area 10)	Figure CB-28
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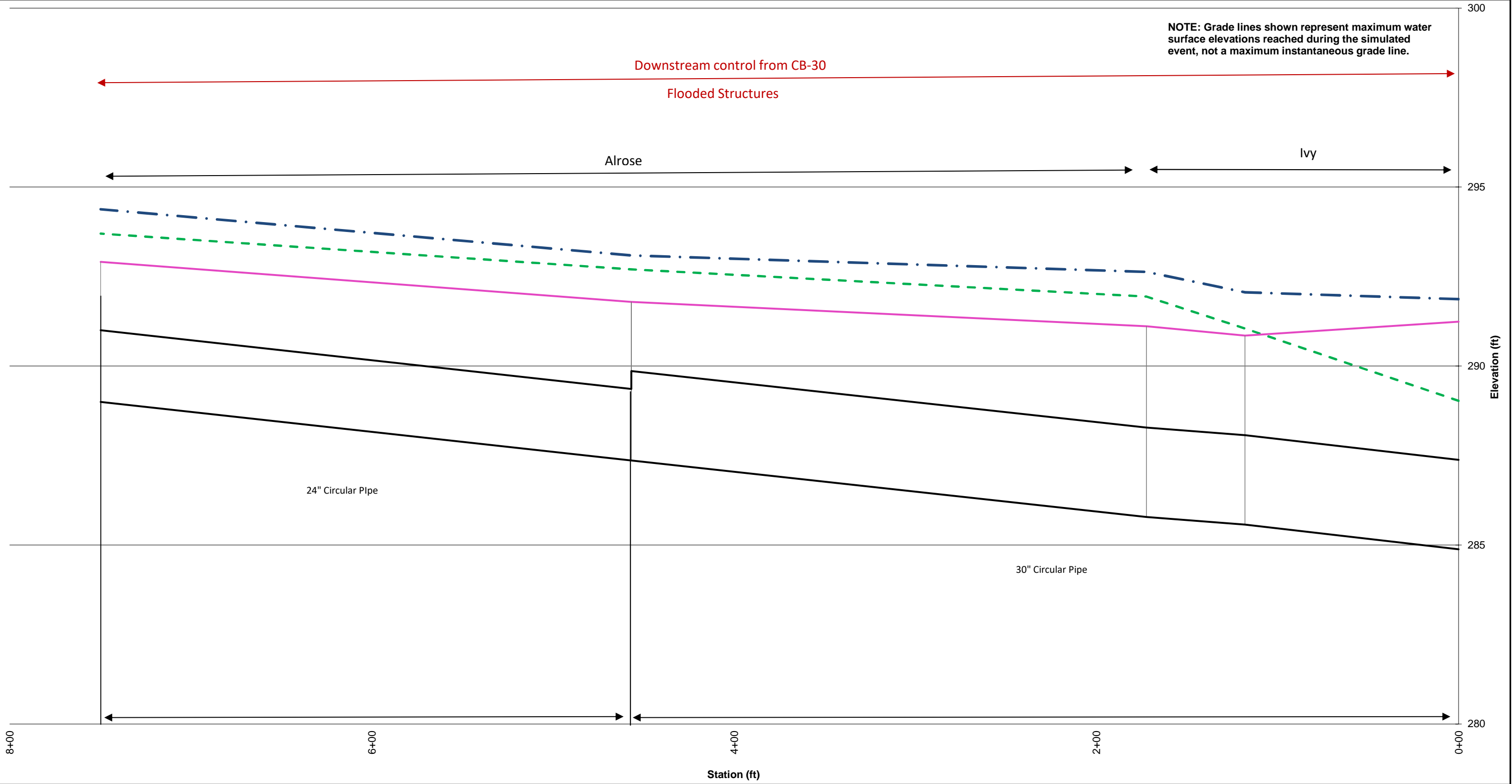
 TETRA TECH		Cherry Bayou Drainage Study Cherry Bayou - Main Branch to Edenshire Ave Hydraulic Profile (Area 11)	Figure CB-30



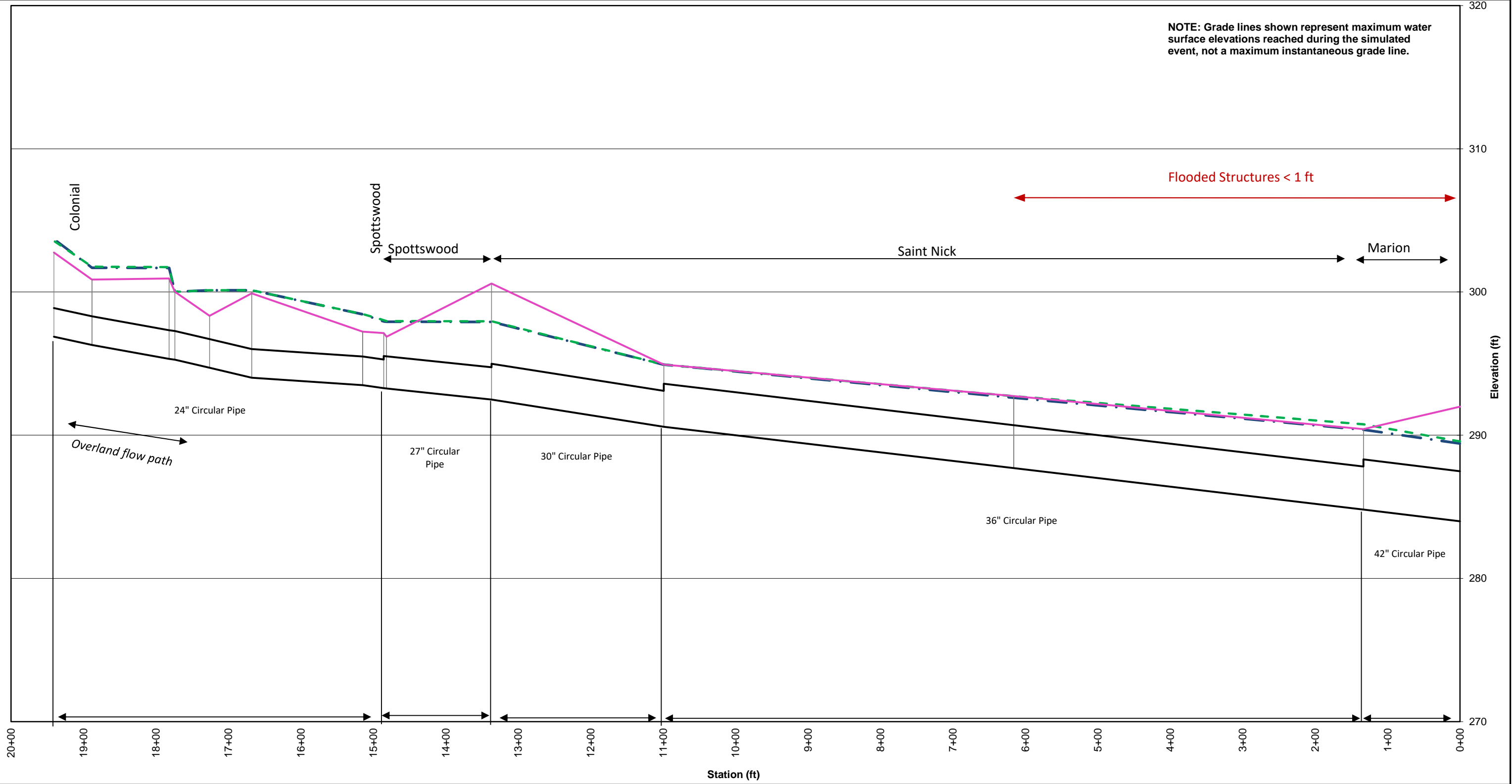
 TETRA TECH	<div>—•— 10-Year Existing HGL - - - 10-Year Proposed HGL — Ground Surface at Manholes — Model Node — Sewer Pipe</div>	Cherry Bayou Drainage Study Cherry Bayou - White Station to Kaye Hydraulic Profile (Area 12)	Figure CB-30.1
DRAWN BY: CEB	DATE: 6/26/2019		



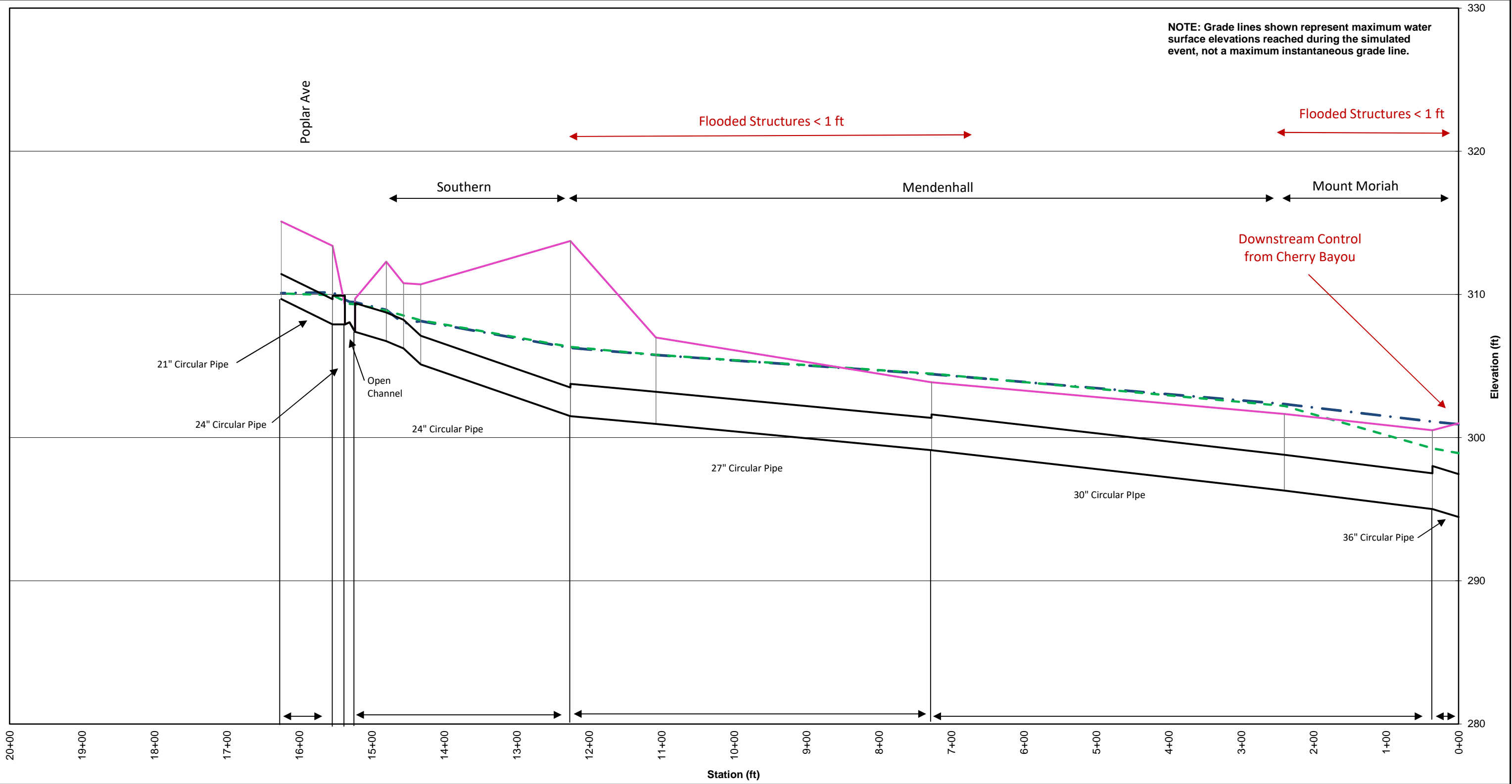
 TETRA TECH	<div>—•— 10-Year Existing HGL - - - • - - - 10-Year Proposed HGL — Ground Surface at Manholes — Model Node — Sewer Pipe</div>	Cherry Bayou Drainage Study Cherry Bayou - Wellsville to Ivy Hydraulic Profile (Area 12)	Figure CB-30.2
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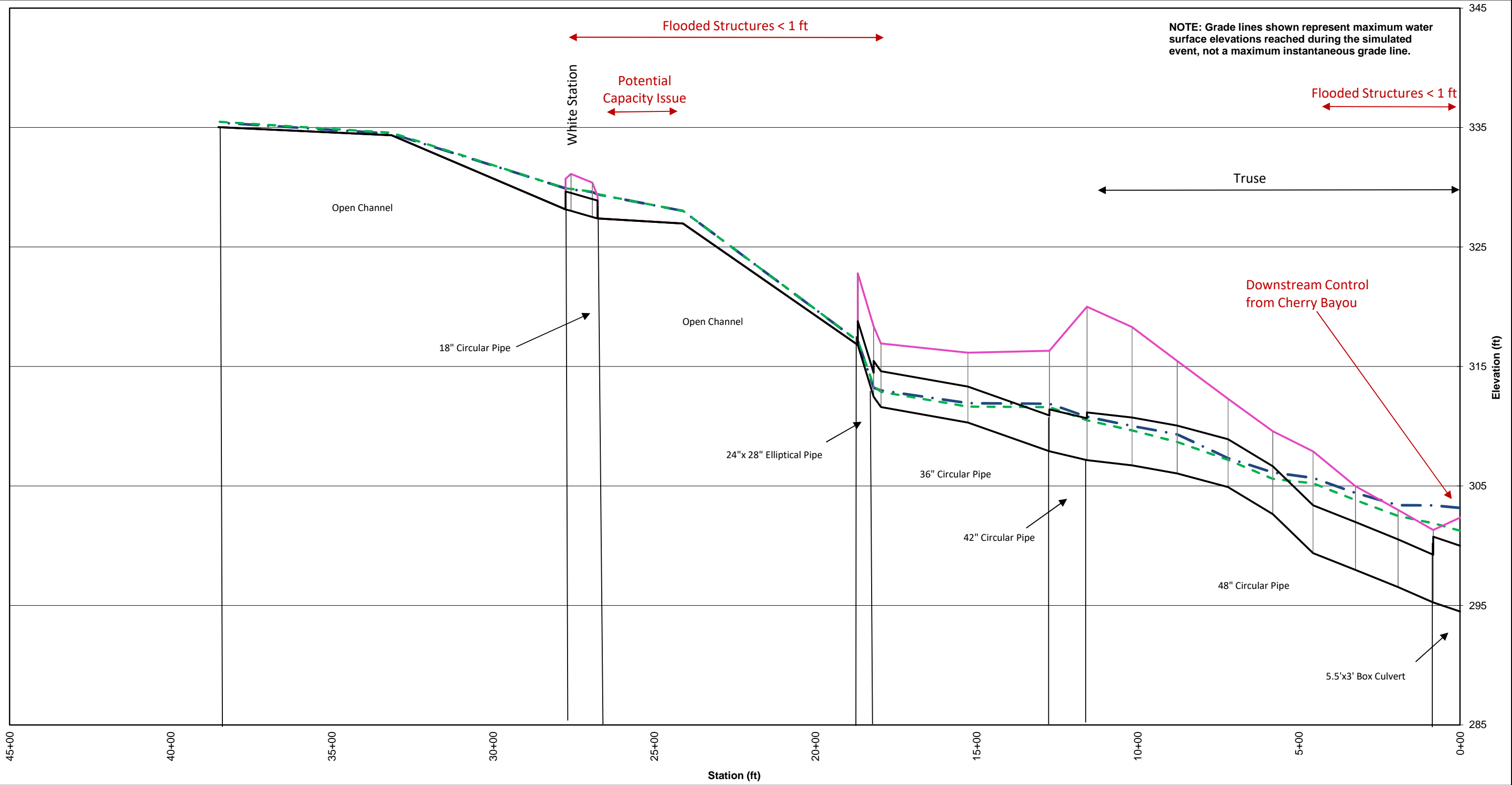
 TETRA TECH	 10-Year Existing HGL  10-Year Proposed HGL  Ground Surface at Manholes  Model Node  Sewer Pipe	Cherry Bayou Drainage Study Cherry Bayou - Alrose to Ivy Hydraulic Profile (Area 11)	Figure CB-30.2.1 CB- .2.1
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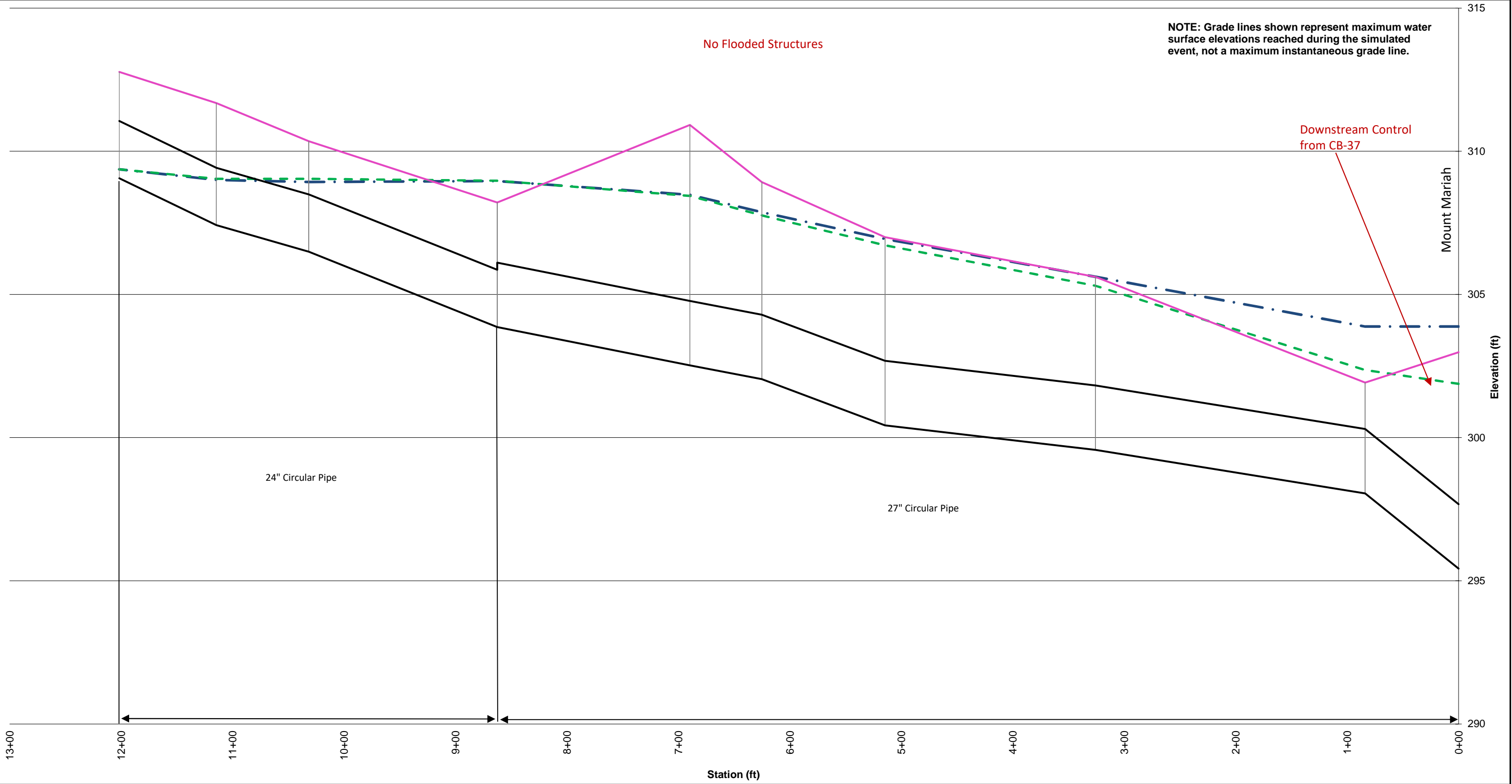
 TETRA TECH	 10-Year Existing HGL  10-Year Proposed HGL  Ground Surface at Manholes  Model Node  Sewer Pipe	Cherry Bayou Drainage Study Cherry Bayou - Main Branch to Colonial Rd Hydraulic Profile (Area 12)	Figure CB-31
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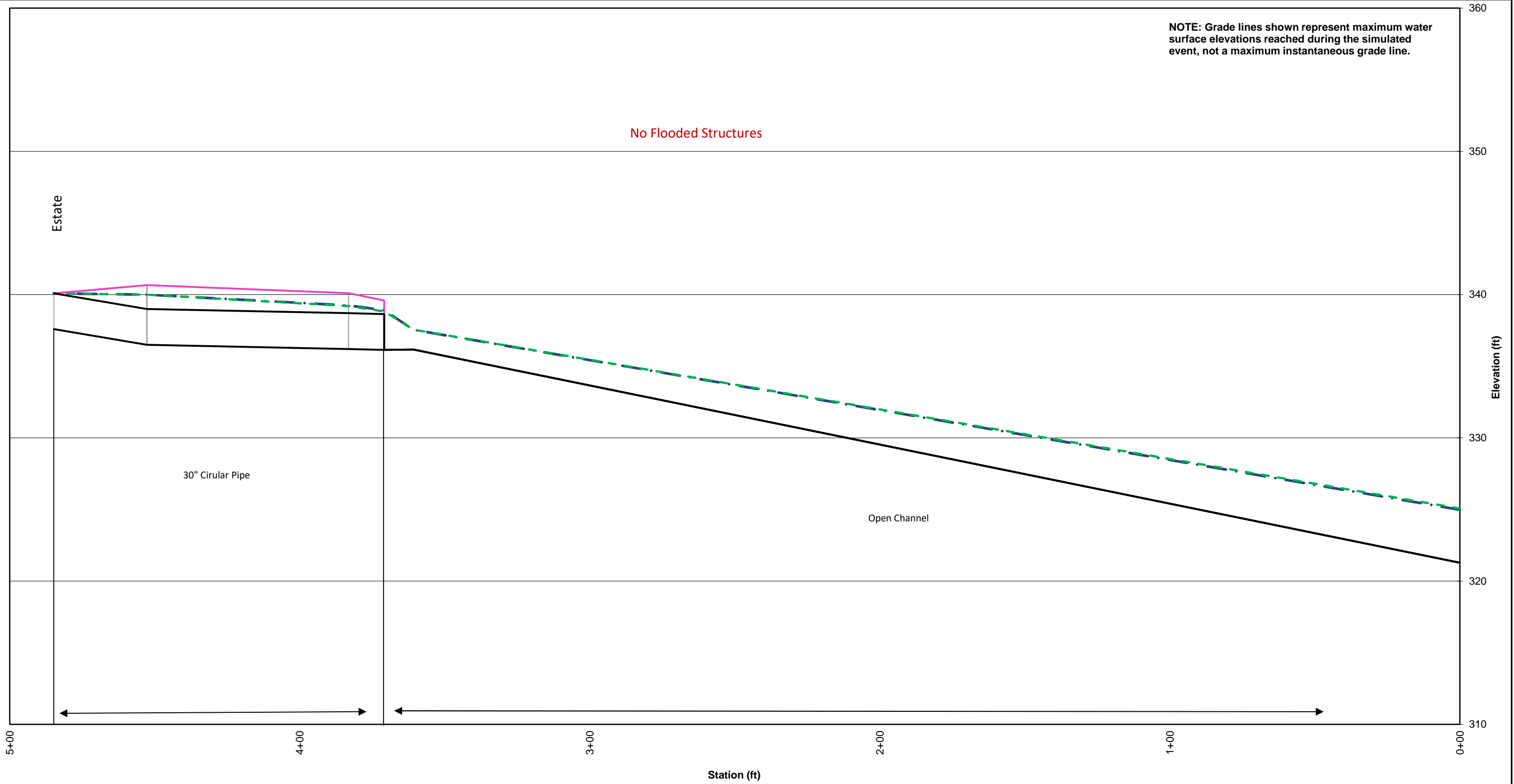
 TETRA TECH		Cherry Bayou Drainage Study Cherry Bayou - Main Branch to Poplar Ave Hydraulic Profile (Area 12)	Figure CB-36
DRAWN BY: CEB	DATE: 6/26/2019		




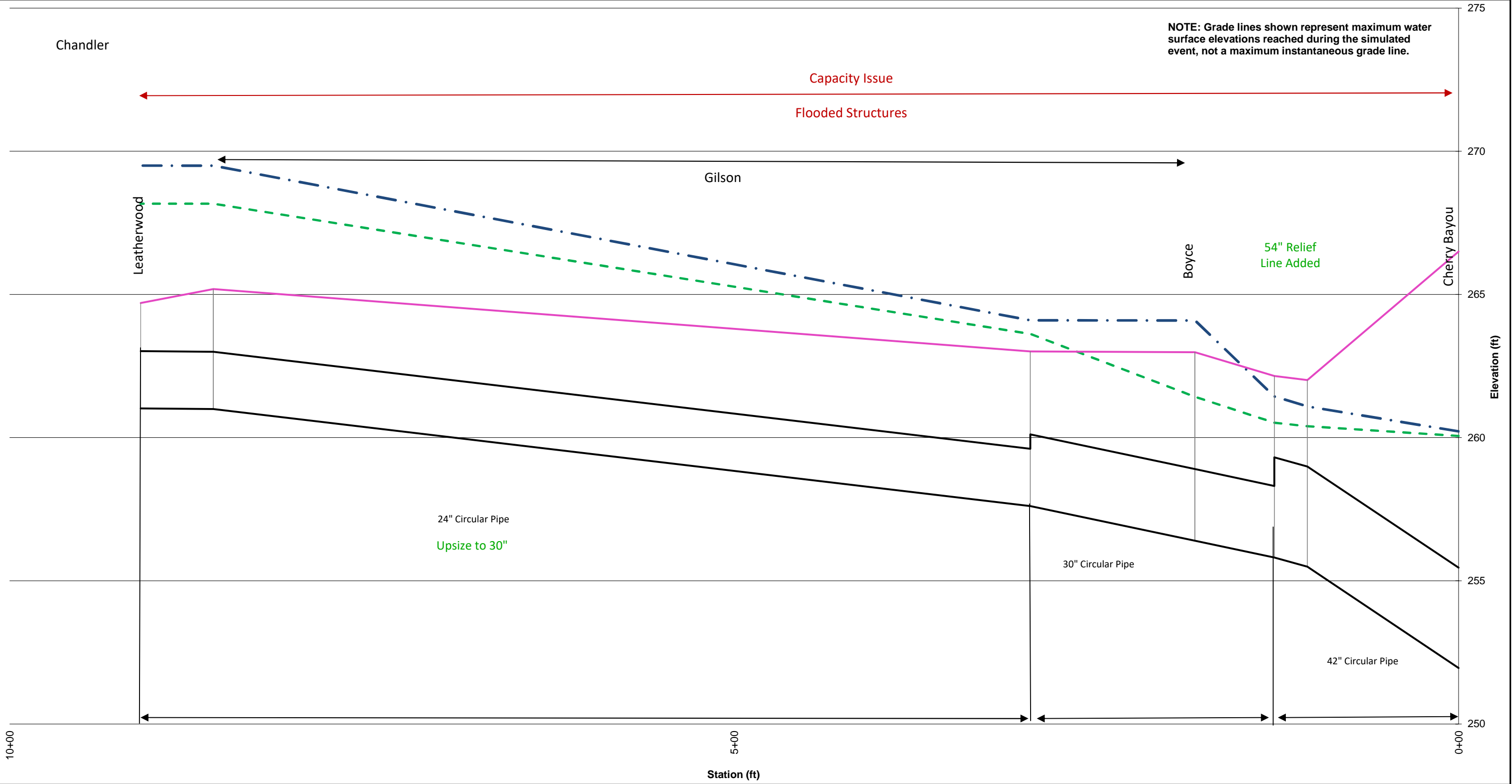
 TETRA TECH	 10-Year Existing HGL  10-Year Proposed HGL  Ground Surface at Manholes  Model Node  Sewer Pipe	Cherry Bayou Drainage Study Cherry Bayou - Main Branch to White Station Rd Hydraulic Profile (Area 12)	Figure CB-37







 TETRA TECH	 10-Year Existing HGL  10-Year Proposed HGL  Ground Surface at Manholes  Model Node  Sewer Pipe	Cherry Bayou Drainage Study Cherry Bayou - White Station to Mnt. Moriah Hydraulic Profile (Area 12)	Figure CB-39



 TETRA TECH	<p>—•— 10-Year Existing HGL - - - 10-Year Proposed HGL — Ground Surface at Manholes — Model Node — Sewer Pipe</p>	Cherry Bayou Drainage Study Cherry Bayou - Main Branch to Estate Dr Hydraulic Profile (Area 12)	Figure CB-40
DRAWN BY: CEB	DATE: 6/26/2019		



 TETRA TECH	 10-Year Existing HGL  10-Year Proposed HGL  Ground Surface at Manholes  Model Node  Sewer Pipe	Cherry Bayou Drainage Study Cherry Bayou - Leatherwood to Cherry Bayou Hydraulic Profile (Area 8)	Figure CB-43 CB-

APPENDIX D: EXISTING CONDITIONS 10-YEAR FLOODPLAIN DELINEATIONS



— Storm Sewer

Open Channel

× — × Bridge/Culvert

— Concrete Channel

— Natural Channel

Capacity Issue

Flooding Complaints

* FLOOD CONTROL

▲ FLOODING

■ FLOODING-DRIVE...

■ FLOODING-LAND

◆ FLOODING-STREET

⊕ O+M-CLEANED

Existing 10-Year Floodplain

0 - 1 ft

1 - 2 ft

> 2 ft

Structure Flooding

No Flooding

< 1 ft Depth

> 1 ft Depth

Watershed

Cherry Bayou

Goodwin

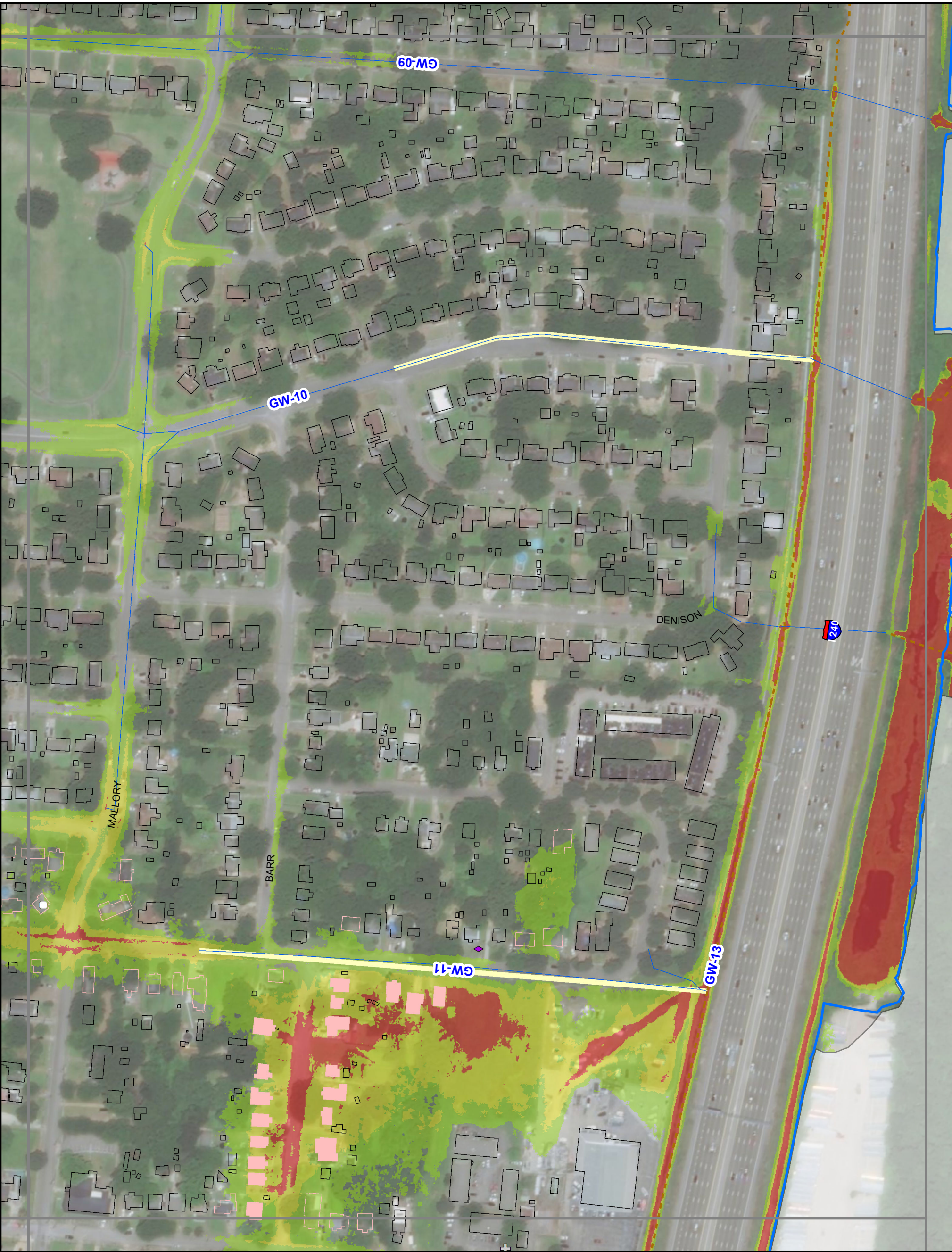
City of Memphis

Cherry Bayou Drainage Study

EXISTING 10-YEAR DESIGN STORM

Appendix D

1



— Storm Sewer

Open Channel

× — × Bridge/Culvert

— Concrete Channel

— Natural Channel

Capacity Issue

Flooding Complaints

* FLOOD CONTROL

▲ FLOODING

■ FLOODING-DRIVE...

■ FLOODING-LAND

◆ FLOODING-STREET

⊕ O+M-CLEANED

Existing 10-Year Floodplain

0 - 1 ft

1 - 2 ft

> 2 ft

Structure Flooding

No Flooding

< 1 ft Depth

> 1 ft Depth

Watershed

Cherry Bayou

Goodwin

0140

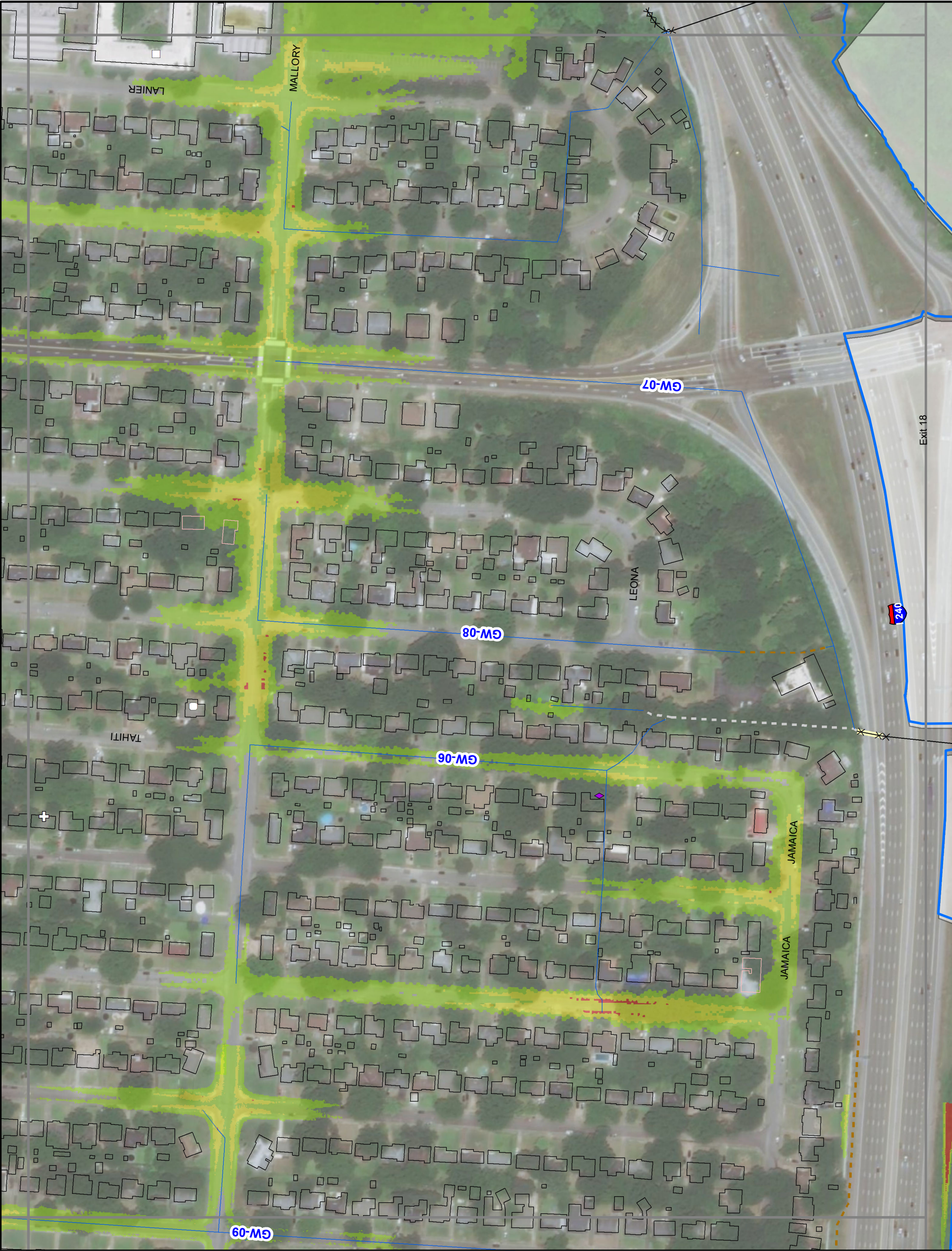
Feet

City of Memphis
Cherry Bayou Drainage Study

EXISTING 10-YEAR DESIGN STORM

Appendix D

2



— Storm Sewer

Open Channel

×—× Bridge/Culvert

--- Concrete Channel

- - - Natural Channel

Capacity Issue

Flooding Complaints

★ FLOOD CONTROL

▲ FLOODING

■ FLOODING-DRIVE...

■ FLOODING-LAND

◆ FLOODING-STREET

⊕ O+M-CLEANED

Existing 10-Year Floodplain

0 - 1 ft

1 - 2 ft

> 2 ft

Structure Flooding

No Flooding

< 1 ft Depth

> 1 ft Depth

Watershed

Cherry Bayou

Goodwin



— Storm Sewer

Open Channel

× × Bridge/Culvert

--- Concrete Channel

- - - Natural Channel

Capacity Issue

Flooding Complaints

* FLOOD CONTROL

▲ FLOODING

■ FLOODING-DRIVE...

● FLOODING-LAND

◆ FLOODING-STREET

⊕ O+M-CLEANED

Existing 10-Year Floodplain

0 - 1 ft

1 - 2 ft

> 2 ft

Structure Flooding

No Flooding

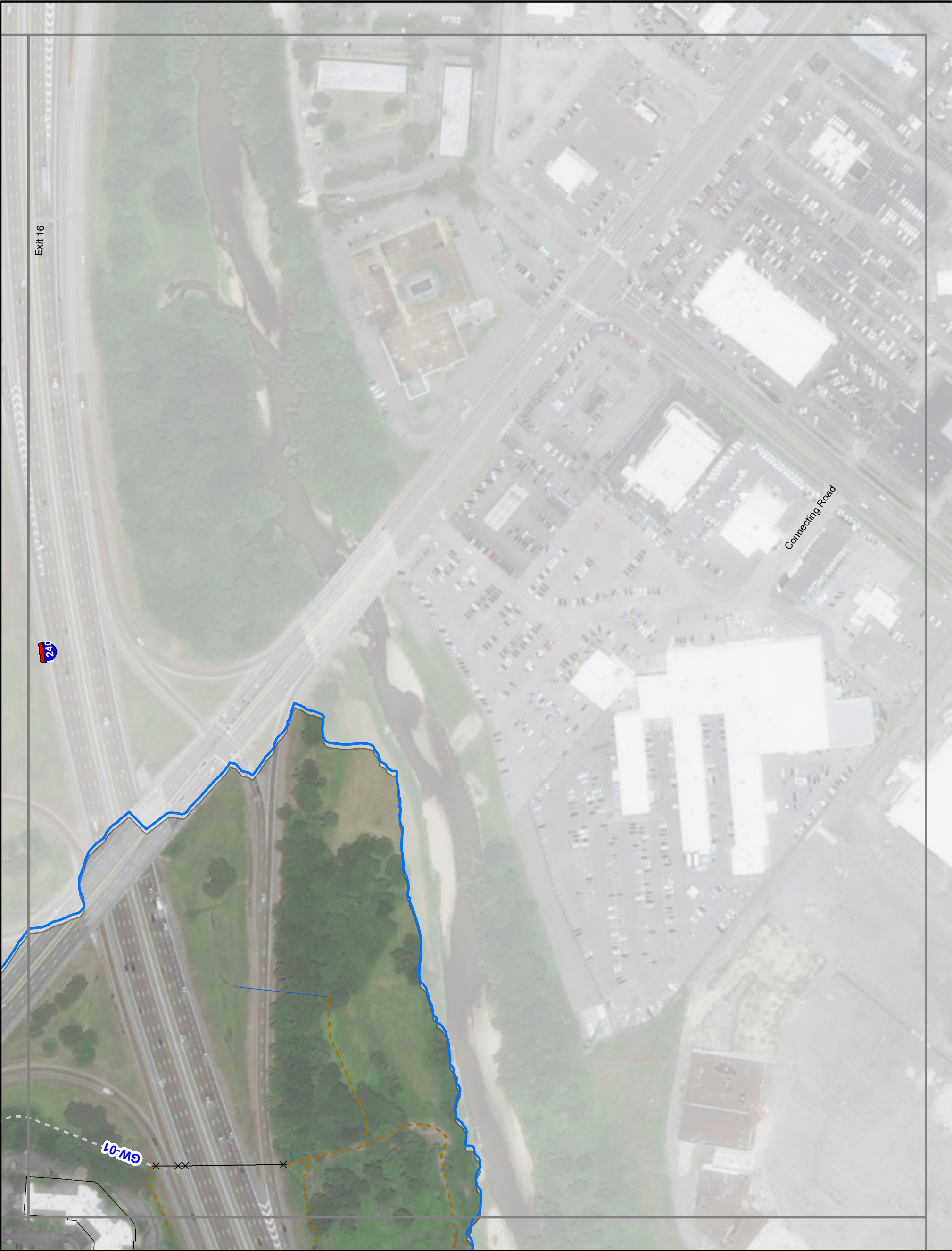
< 1 ft Depth

> 1 ft Depth

Watershed

Cherry Bayou

Goodwin



— Storm Sewer

Open Channel

×—× Bridge/Culvert

— Concrete Channel

— Natural Channel

Capacity Issue

Flooding Complaints

* FLOOD CONTROL

▲ FLOODING

■ FLOODING-DRIVE...

● FLOODING-LAND

◆ FLOODING-STREET

⊕ O+M-CLEANED

Existing 10-Year Floodplain

0 - 1 ft

1 - 2 ft

> 2 ft

Structure Flooding

No Flooding

< 1 ft Depth

> 1 ft Depth

Watershed

Cherry Bayou

Goodwin

0 140
Feet

City of Memphis
Cherry Bayou Drainage Study

EXISTING 10-YEAR DESIGN STORM

Appendix D

5



LEGEND

Storm Sewer

Open Channel

Bridge/Culvert

Concrete Channel

Natural Channel

Capacity Issue

FLOOD CONTROL

FLOODING

FLOODING-DRIVE...

FLOODING-LAND

FLOODING-STREET

O+M-CLEANED

Existing 10-Year Floodplain

0 - 1 ft

1 - 2 ft

> 2 ft

Structure Flooding

No Flooding

< 1 ft Depth

> 1 ft Depth

Watershed

Cherry Bayou

Goodwin

City of Memphis

Cherry Bayou Drainage Study

EXISTING 10-YEAR DESIGN STORM

Appendix D

6



— Storm Sewer

Open Channel

× — × Bridge/Culvert

--- Concrete Channel

- - - Natural Channel

Capacity Issue

Flooding Complaints

* FLOOD CONTROL

▲ FLOODING

■ FLOODING-DRIVE...

● FLOODING-LAND

◆ FLOODING-STREET

⊕ O+M-CLEANED

Existing 10-Year Floodplain

0 - 1 ft

1 - 2 ft

> 2 ft

Structure Flooding

No Flooding

< 1 ft Depth

> 1 ft Depth

Watershed

Cherry Bayou

Goodwin

0140

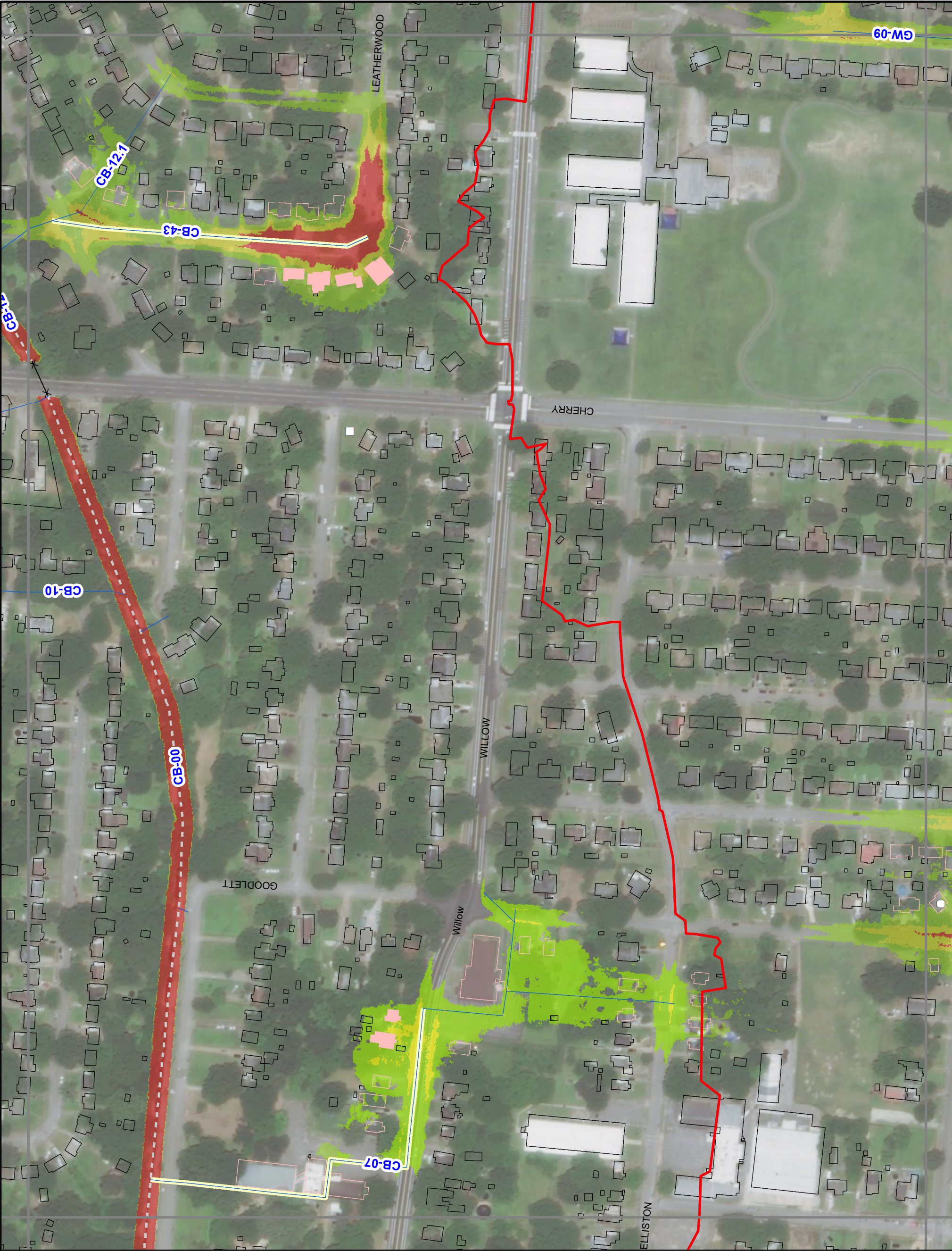
Feet

City of Memphis
Cherry Bayou Drainage Study

EXISTING 10-YEAR DESIGN STORM

Appendix D

7



— Storm Sewer

Open Channel

× — × Bridge/Culvert

— Concrete Channel

— Natural Channel

Capacity Issue

Flooding Complaints

* FLOOD CONTROL

▲ FLOODING

■ FLOODING-DRIVE...

■ FLOODING-LAND

◆ FLOODING-STREET

⊕ O+M-CLEANED

Existing 10-Year Floodplain

0 - 1 ft

1 - 2 ft

> 2 ft

Structure Flooding

No Flooding

< 1 ft Depth

> 1 ft Depth

Watershed

Cherry Bayou

Goodwin