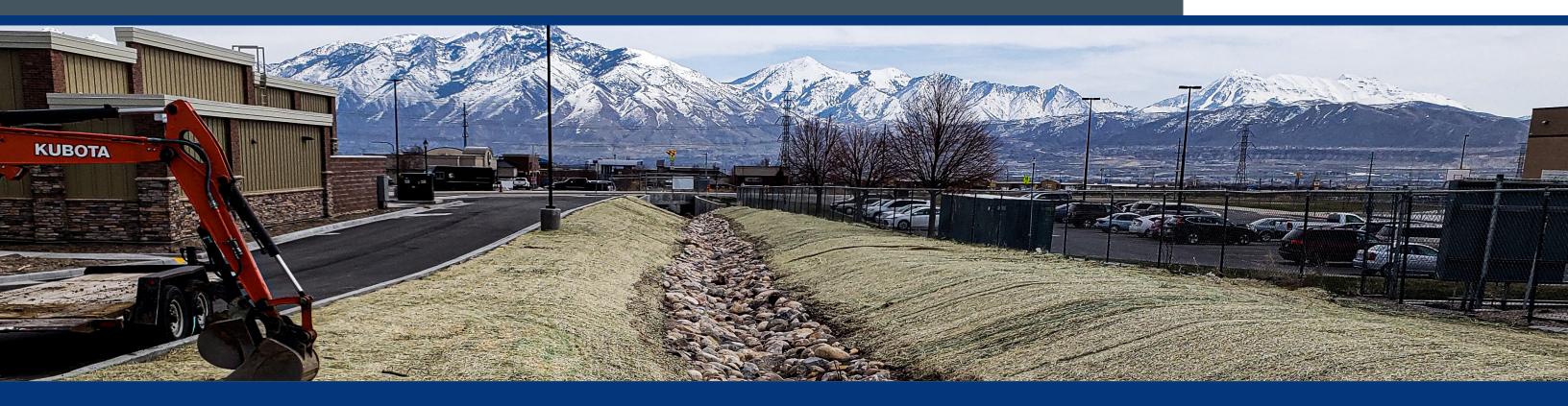
VOLUME 2 - FIGURES SOUTHWEST CANAL AND CREEK STUDY



Prepared by:



Prepared for:



March 2020

### **TABLE OF CONTENTS**

#### LIST OF FIGURES – VOLUME II

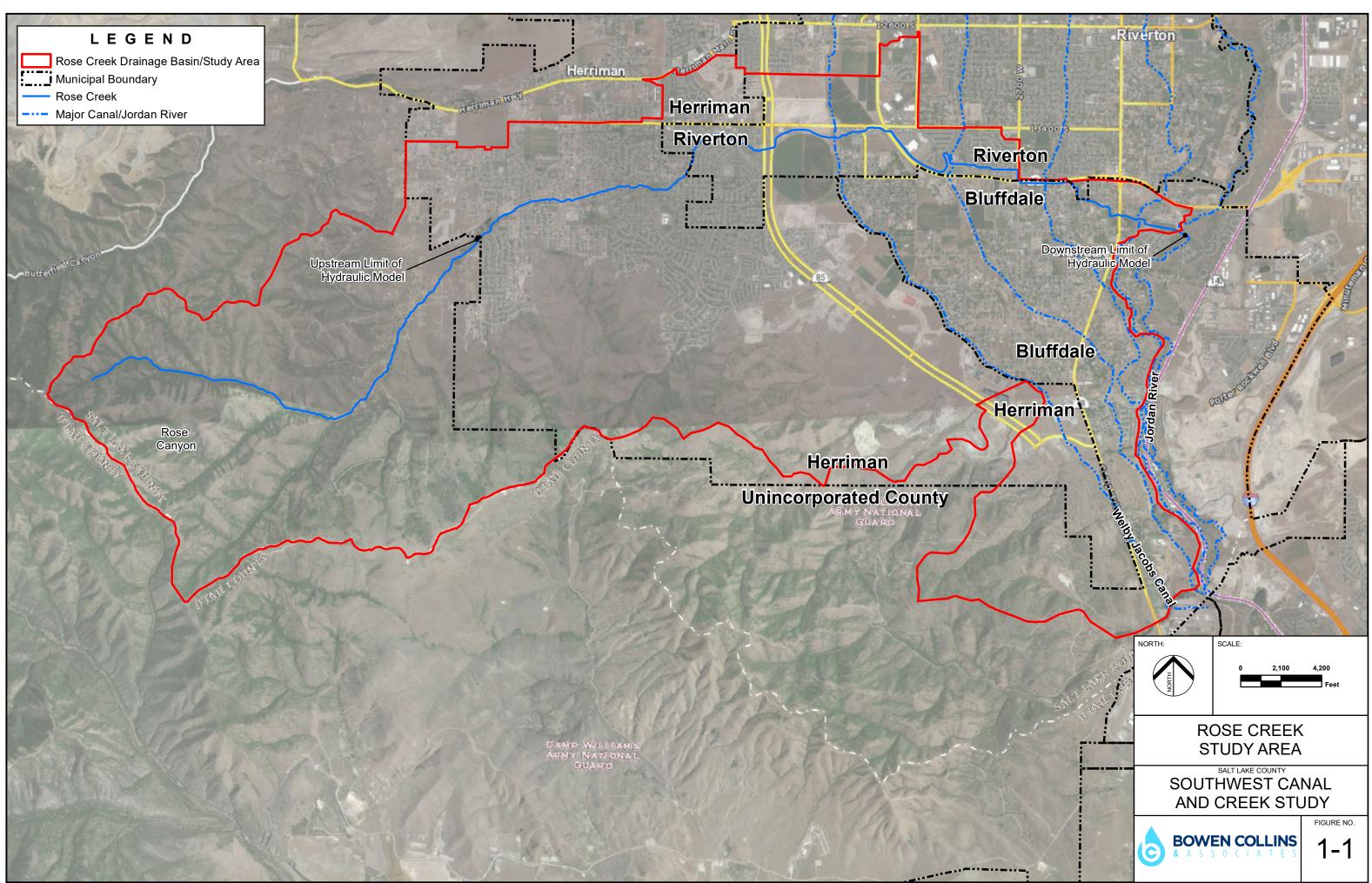
Figure No. 1	itle
1-1	Rose Creek Study Area
2-1	Rose Creek Deficiencies and Structure Type
4-1 4-2	
5-1          5-2          5-3	Rose Creek Deficiencies Existing Conditions of Alternative
6-1 6-2	
6-3A 6-3B 6-4A 6-4B 6-5A 6-5A 6-5B 6-6A 6-6B 6-6B	<ul> <li>Alternative 3 – Future Development Detains to 0.2 CFS/AC</li> <li>Rose Creek Deficiencies Alternative 4 – In-Stream Detention</li> <li>Alternative 2-4 – In-Stream Detention on Rose Creek</li> <li>Rose Creek Alternatives 5 – 13800 South Outfall</li> <li>Alternative 5 – 138<sup>th</sup> Street Storm Drain Pipeline</li> <li>Rose Creek Deficiencies Alternative 6 – 13800 South to 270</li> <li>Alternative 6 – 138<sup>th</sup> Street Storm to 2700 West Drain Pipeli</li> </ul>
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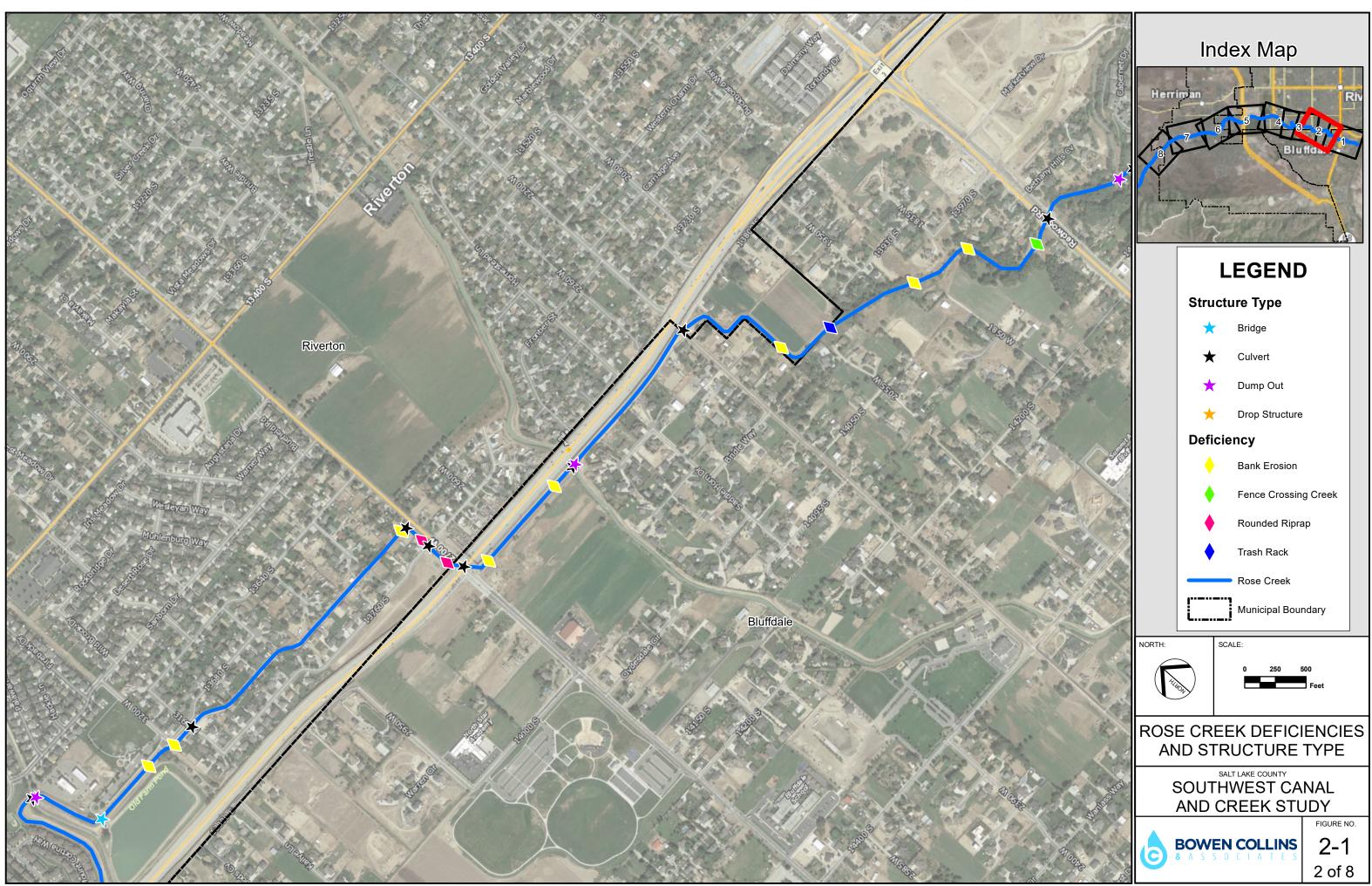


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Section 1: Rose Creek



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Section 1: Rose Creek

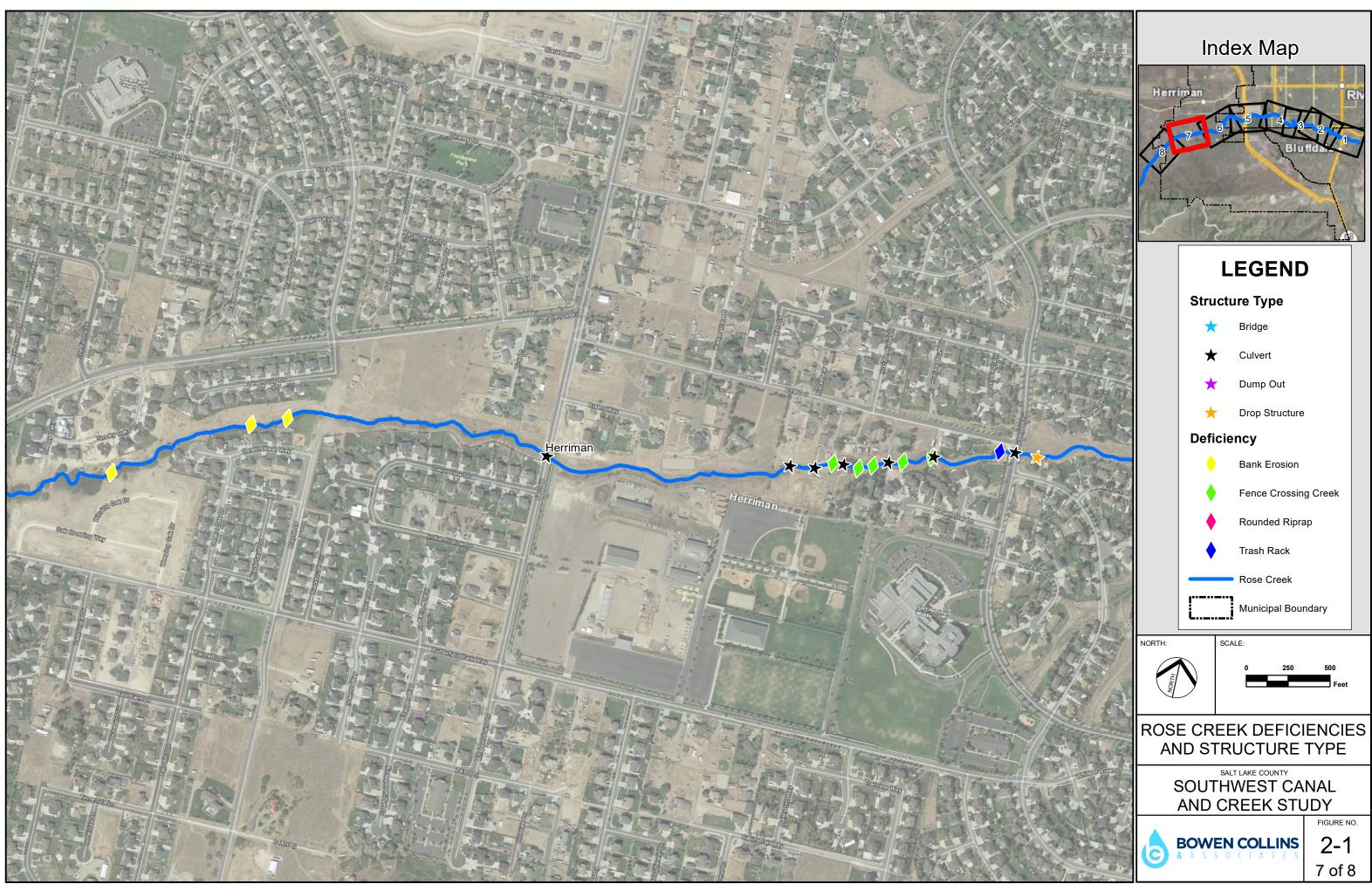


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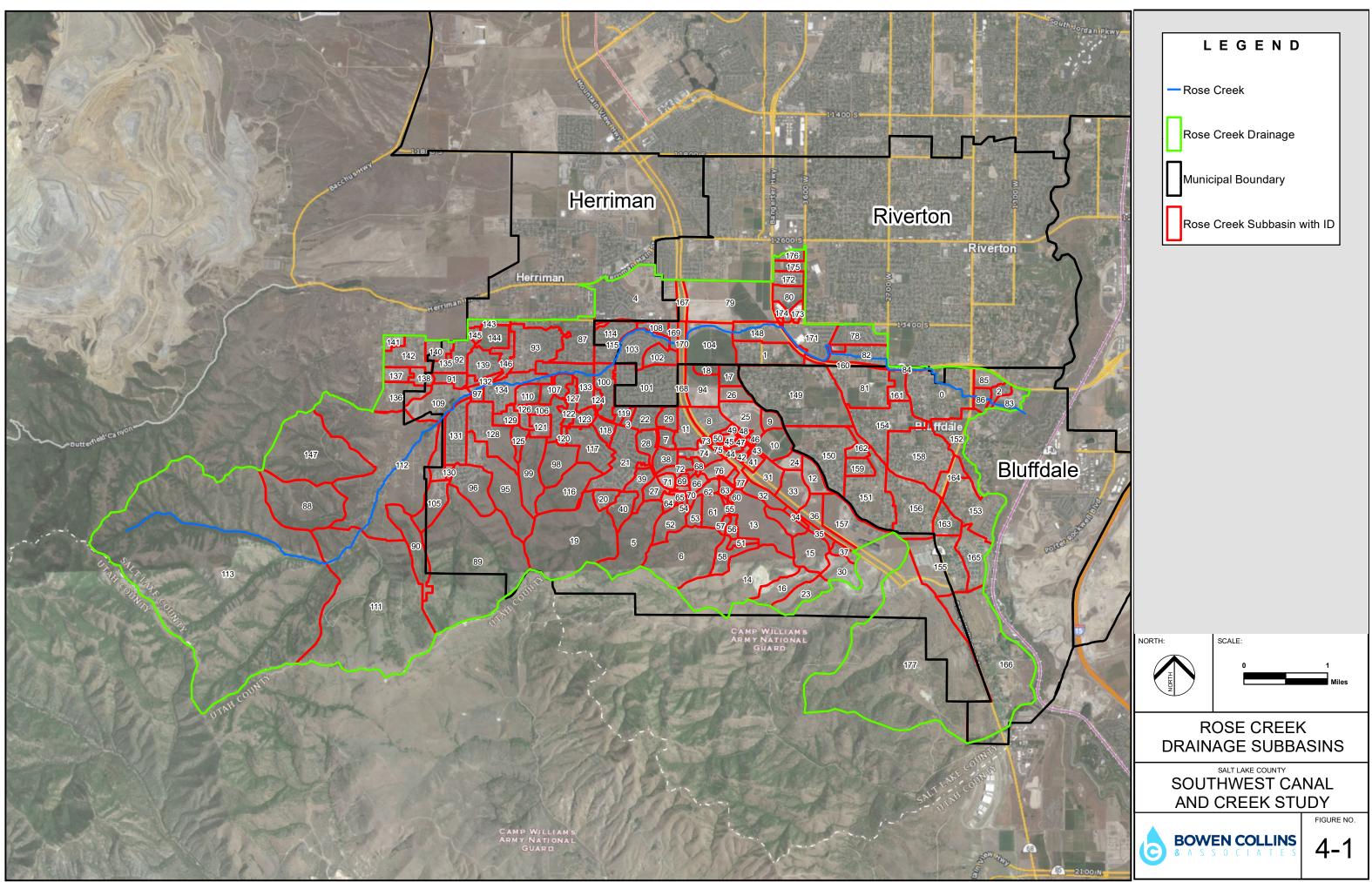




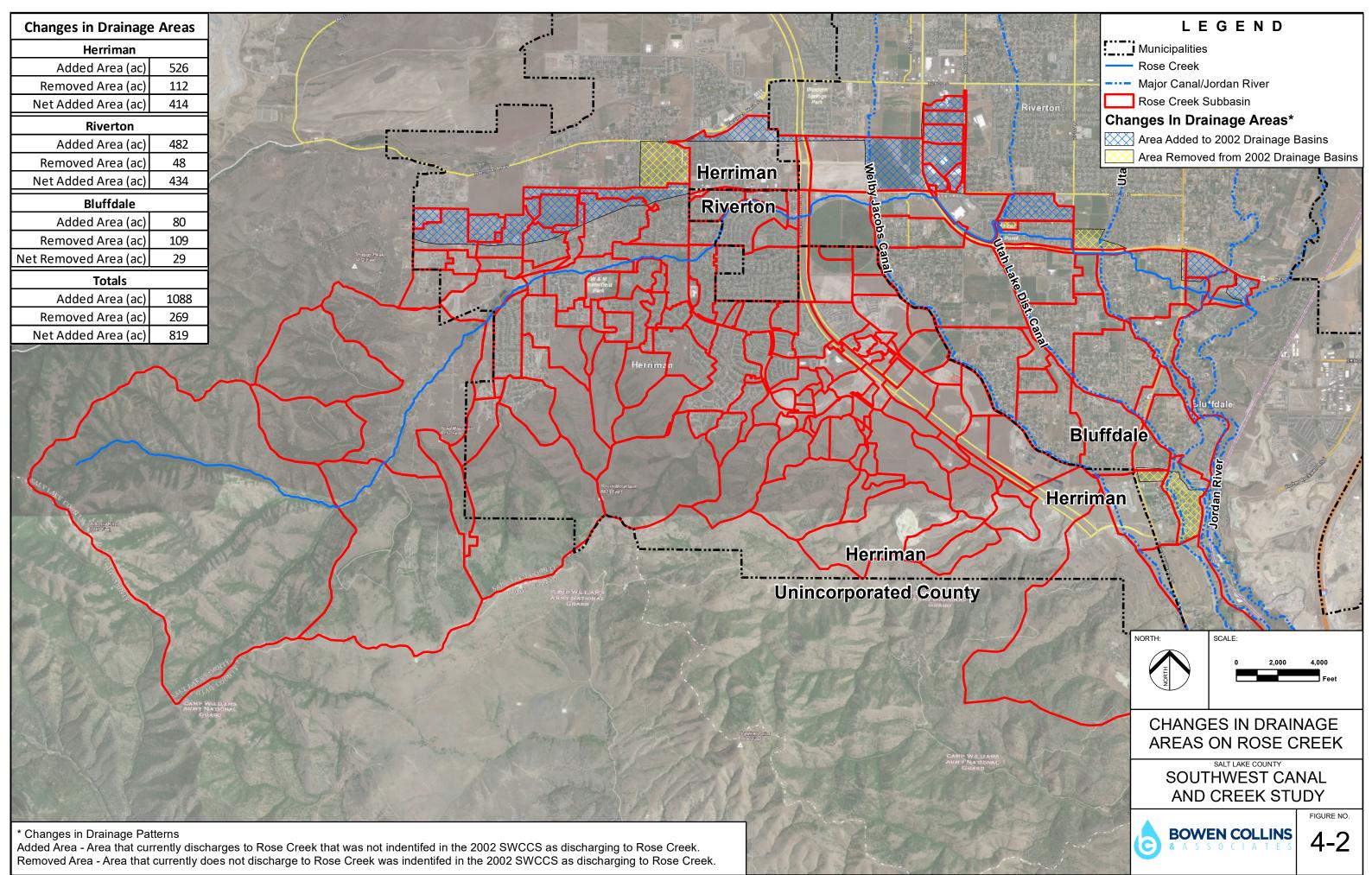
P:\Salt Lake County!2018 Southwest Creek and Canal Study!4.0 GIS\4.1 Projects\Figure 2-1 - Inventory.mxd kballentine 12/20/20 Section 1: Rose Creek



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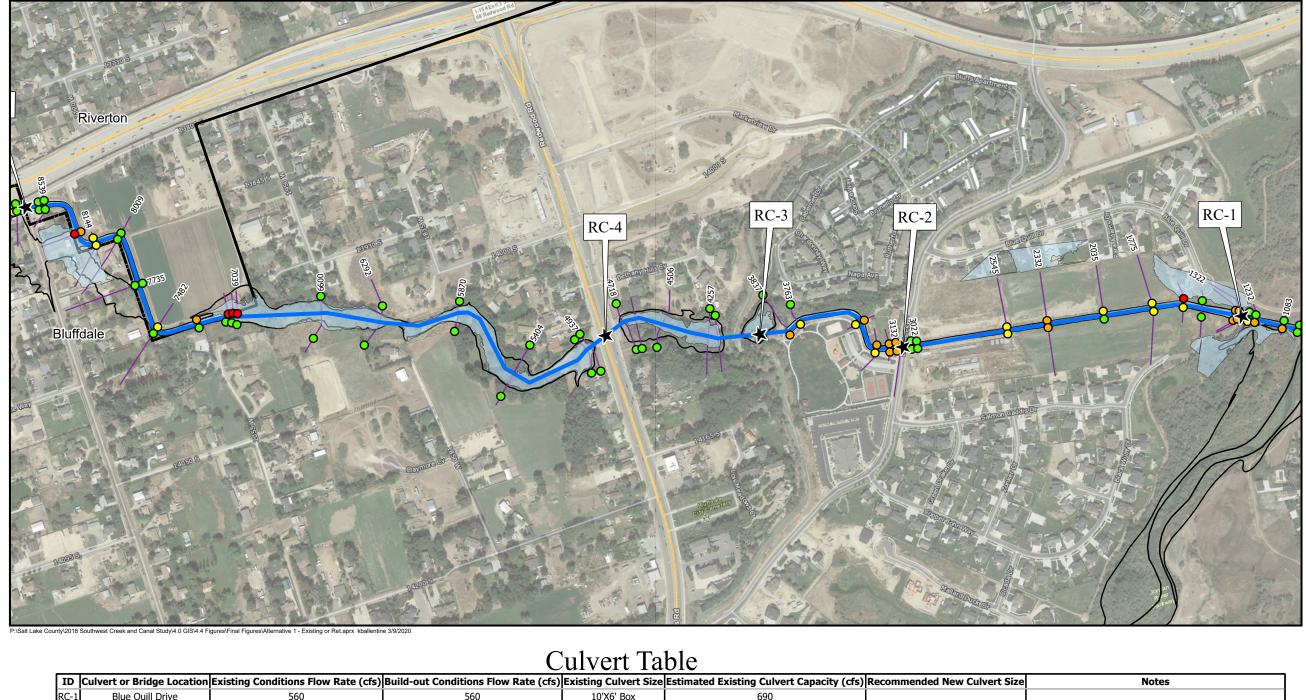


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Section 1: Rose Creek



ID	Culvert or Bridge Location	Existing Conditions Flow Rate (cfs)	Build-out Conditions Flow Rate (cfs)	Existing Culvert Size	Estimated Existing Culvert Capacity (cfs)	<b>Recommended New Culvert Size</b>	Notes				
RC-	Blue Quill Drive	560	560	10'X6' Box	690						
RC-	2 1300 West	560	560	10'X6' Box	550	15'X6' Box	Low Priority. Floodplain doesn't impact insurable structures.				
RC-	3 South Jordan Canal Crossing	560	560	10'X4' Box	720						
RC-	Redwood Road	540	530	10'X6' Box	830						

Alternative 1 is the not the recommended alternative. See alternative 3 (Figure 6-3) for the recommended improvements. Cost estimates and channel improvements for alternative 1 are identified on Figure 6-1.

### Index Map



### LEGEND Culvert Deficiency Existing Culvert ★ Existing Bridge Rose Creek Freeboard At Proposed Flow Rate

Bank Overtopping 

0 0 - 1 feet

1 - 2 feet 0

> 2 + feetRose Creek

Estimated 100-year Floodplain

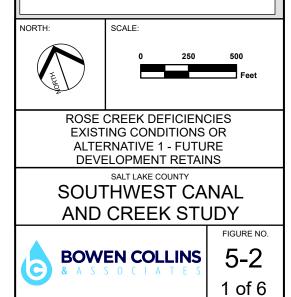
 $\mathbf{O}$ 

 $\star$ 

Municipal Boundary

Preliminary FEMA Floodplain Boundary

HEC-RAS Cross Section With Station





Lake County/2018 Southwest Creek and Canal Study/4.0 GIS/4.4 Figures/Final Figures/Alternative 1 - Existing or Ret.aprx kballentine 3/9/

ID	Culvert or Bridge Location	Existing Conditions Flow Rate (cfs)	Build-out Conditions Flow Rate (cfs)	Existing Culvert Size	Estimated Existing Culvert Capacity (cfs)	<b>Recommended New Culvert Size</b>	Notes
RC-5	2200 West	535	530	13'X5.5' Box	767		
RC-6	Utah and Salt Lake Canal Crossing	530	530	8'X5' Box	696		
RC-7	Bangerter Hwy @ 2700 West	490	490	12'X6' Box	780		Backwater from Bangerter increases flood potential
RC-8	13760 South	470	470	6'X5' Box & 42" Diameter	390	12'X6' Box	High Priority. Flooding will impact h
RC-9	2700 West (90 Bend)	470	470	10'X6' Box	420	12'X6' Box	High Priority. Flooding will impact h
RC-10	3160 West	470	470	10'X4.5' Box	440	13'X6' Box	High Priority. Flooding will impact h
RC-11	Foot Bridge @ 3300 W	470	470	Free spanning Foot Bridge			No Restriction
RC-12	Utah Lake Distributing Canal	470	470	17'X4.8' Box	663		

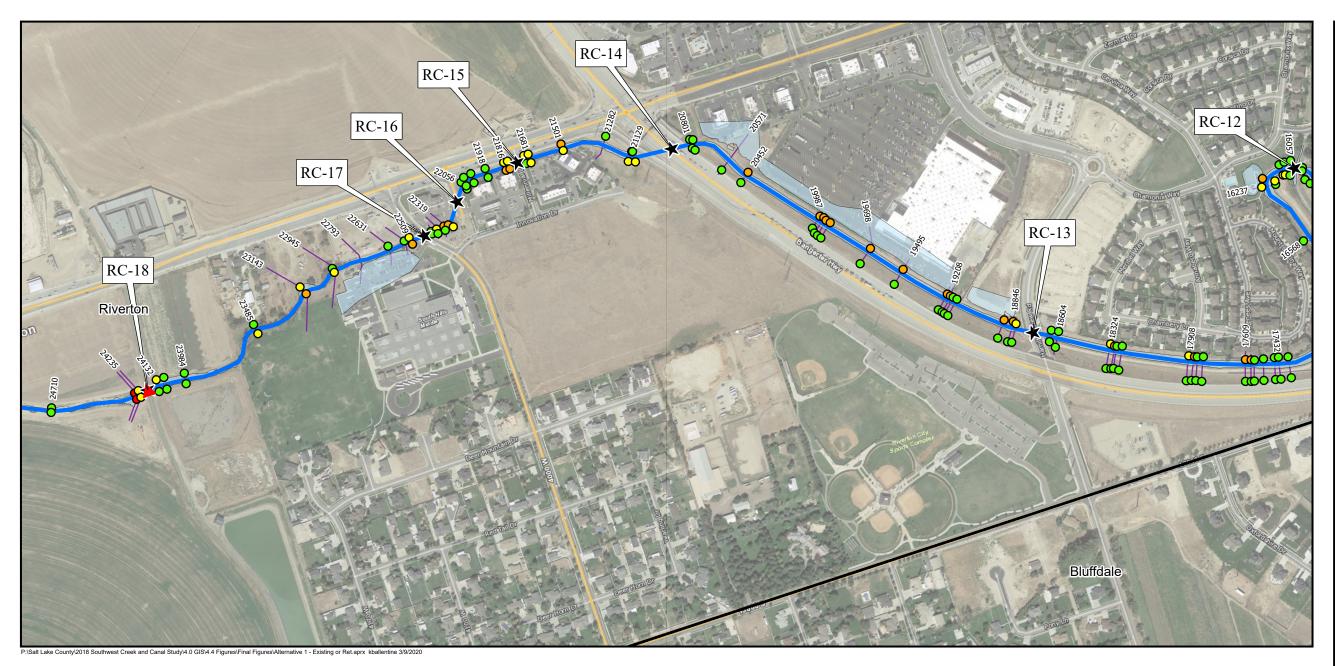
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al for upstream culverts
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t homes

### Index Map



#### LEGEND Culvert Deficiency Existing Culvert $\star$ ★ Existing Bridge Rose Creek Freeboard At Proposed Flow Rate Bank Overtopping 0 0 - 1 feet 0 1 - 2 feet 2 + feet $\mathbf{O}$ Rose Creek Estimated 100-year Floodplain Municipal Boundary Preliminary FEMA Floodplain Boundary - HEC-RAS Cross Section With Station SCALE: NORTH ROSE CREEK DEFICIENCIES EXISTING CONDITIONS OR ALTERNATIVE 1 - FUTURE DEVELOPMENT RETAINS SALT LAKE COUNTY SOUTHWEST CANAL AND CREEK STUDY FIGURE NO. 5-2 **BOWEN COLLINS** C 2 of 6



ID	<b>Culvert or Bridge Location</b>	Existing Conditions Flow Rate (cfs)	Build-out Conditions Flow Rate (cfs)	<b>Existing Culvert Size</b>	Estimated Existing Culvert Capacity (cfs)	Recommended New Culvert Size Not	tes			
RC-12	Utah Lake Distributing Canal	470	470	17'X4.8' Box	663					
RC-13	3600 West	390	390	13'X5' Box	663					
RC-14	Bangerter Hwy at 13400 South	390	390	13'X6' Box	572					
RC-15	Millennial Drive	350	350	15'X4' Box	450					
RC-16	4050 West	350	350	Parallel 6'X5' Box	516					
RC-17	4000 West	350	350	13'X6' Box	572					
RC-18	Welby Jacob's Canal	350	350	6'X4' Box	276	14'X6' Box				

Alternative 1 is the not the recommended alternative. See alternative 3 (Figure 6-3) for the recommended improvements. Cost estimates and channel improvements for alternative 1 are identified on Figure 6-1.

### Index Map



# LEGEND



Existing Culvert

Existing Bridge  $\star$ 

Rose Creek Freeboard At Proposed Flow Rate

> Bank Overtopping

0 0 - 1 feet 1 - 2 feet 0



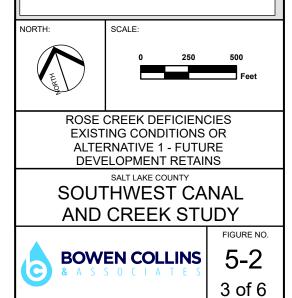
Rose Creek

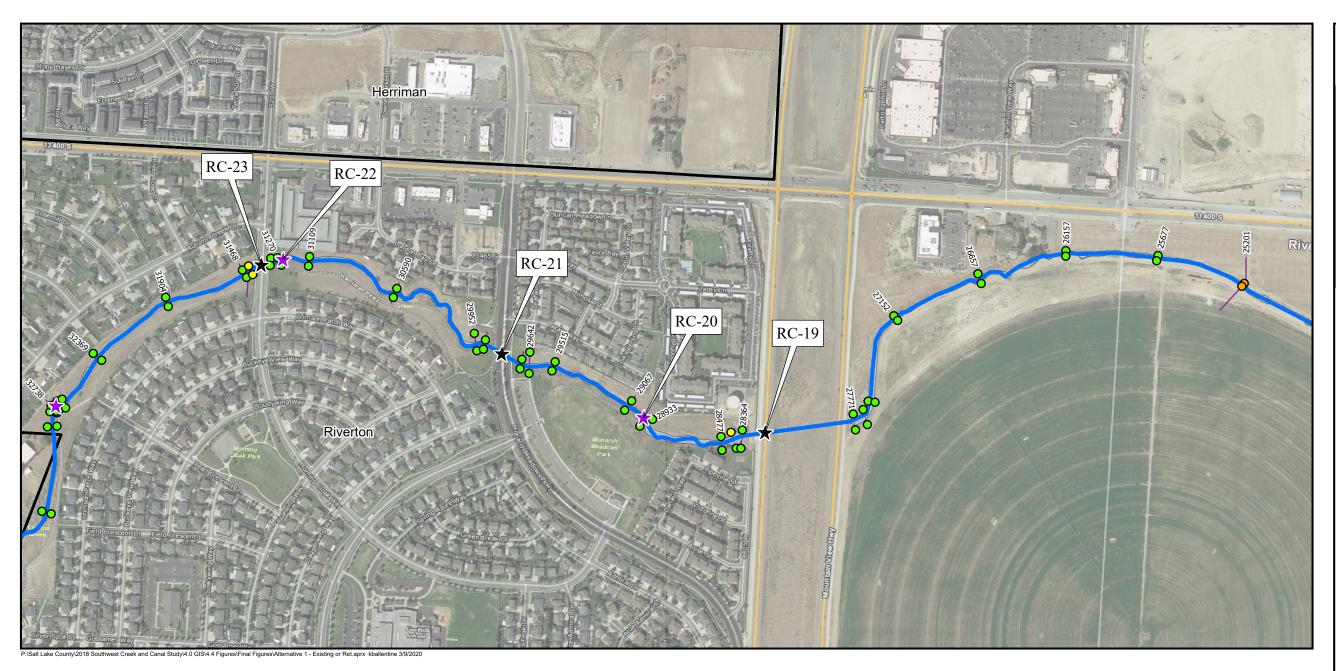
Estimated 100-year Floodplain

Municipal Boundary

Preliminary FEMA Floodplain Boundary

HEC-RAS Cross Section With Station





ID	Culvert or Bridge Location	Existing Conditions Flow Rate (cfs)	Build-out Conditions Flow Rate (cfs)	<b>Existing Culvert Size</b>	Estimated Existing Culvert Capacity (cfs)	<b>Recommended New Culvert Size</b>	Notes					
RC-19	MVC	312	312	7' Diameter	600							
RC-20	Foot Bridge @ 4800 W	272	272	Free spanning Foot Bridge			No Restriction					
RC-21	Monarch Meadows Parkway	272	272	Ellipse 12.5'X7'	1500							
RC-22	Foot Bridge @ 5000 W	272	272	Free spanning Foot Bridge			No Restriction					
RC-23	Morning Cloak Way	272	272	6.5' Diameter	370							

Alternative 1 is the not the recommended alternative. See alternative 3 (Figure 6-3) for the recommended improvements. Cost estimates and channel improvements for alternative 1 are identified on Figure 6-1.

### Index Map



# LEGEND

Culvert Deficiency Existing Culvert

Existing Bridge

Rose Creek Freeboard At

Proposed Flow Rate

 $\star$ 

Bank Overtopping

- 11 -

0 - 1 feet
 1 - 2 feet

• 2 + feet

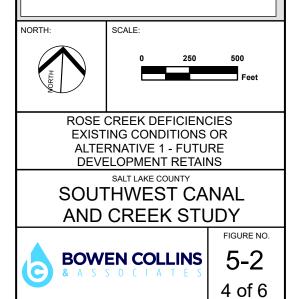
Rose Creek

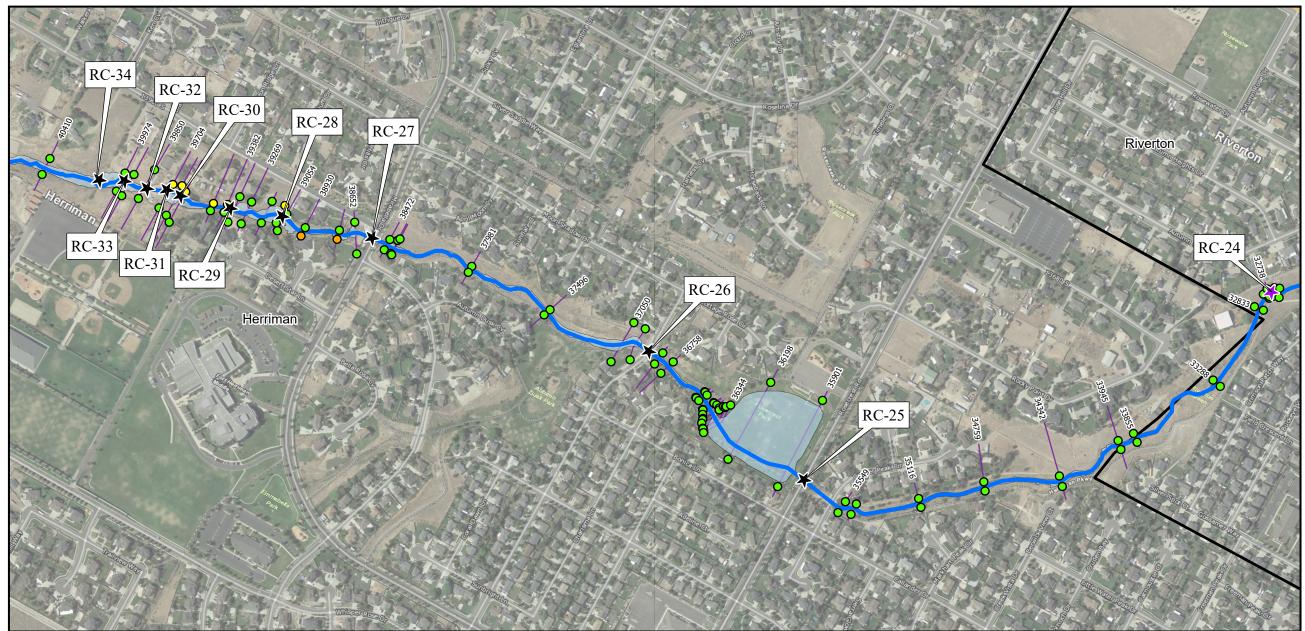
Estimated 100-year Floodplain

Municipal Boundary

Preliminary FEMA Floodplain Boundary

- HEC-RAS Cross Section With Station

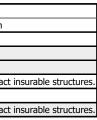




t Lake County/2018 Southwest Creek and Canal Study/4.0 GIS/4.4 Figures/Final Figures/Alternative 1 - Existing or Ret.aprx kballentine 3

ID	Culvert or Bridge Location	Existing Conditions Flow Rate (cfs)	Build-out Conditions Flow Rate (cfs)	Existing Culvert Size	Estimated Existing Culvert Capacity (cfs)	<b>Recommended New Culvert Size</b>	Notes
RC-24	Foot Bridge @ 5300 W	176	176	Free spanning Foot Bridge			No Restriction
RC-25	Rosecrest Rd.	176	176	42" Diameter	180		
RC-26	Friendship Dr.	323	323	6' Diameter	400		
RC-27	Mirabella Dr.	323	323	Parallel 5' Diameter	400		
RC-28	Private Culvert	262	262	18" Diameter		Remove Culvert	Low Priority. Floodplain doesn't impact
RC-29	6100 West	262	262	5'X6' Box	340		
RC-30 through 34	Five (5) Private Culverts	262	262	> 2' Diameter		Remove Culverts	Low Priority. Floodplain doesn't impact

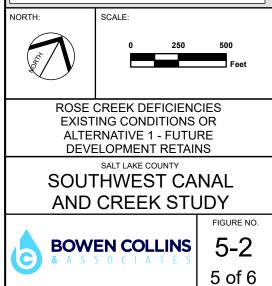
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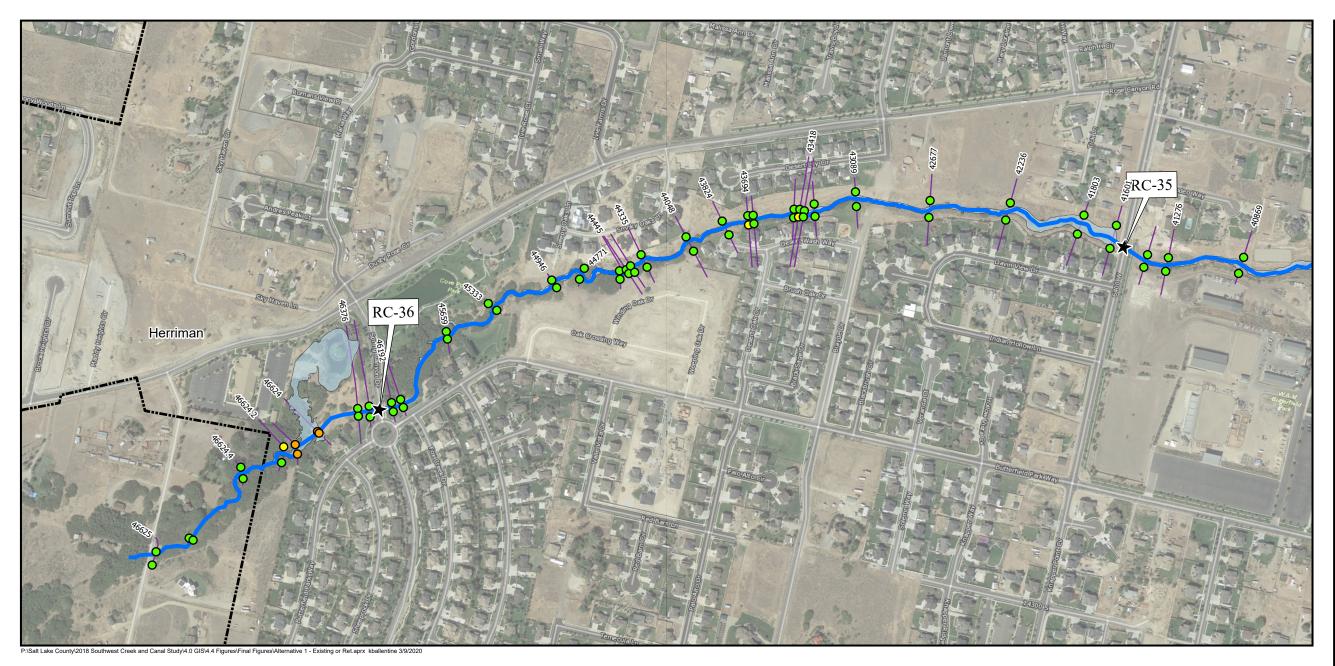


### Index Map



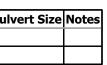
### LEGEND Culvert Deficiency Existing Culvert $\star$ ★ Existing Bridge Rose Creek Freeboard At Proposed Flow Rate Bank Overtopping 0 - 1 feet 0 0 1 - 2 feet 0 2 + feetRose Creek Estimated 100-year Floodplain Municipal Boundary Preliminary FEMA Floodplain Boundary - HEC-RAS Cross Section With Station SCALE: ROSE CREEK DEFICIENCIES EXISTING CONDITIONS OR





ID	Culvert or Bridge Location	Existing Conditions Flow Rate (cfs)	Build-out Conditions Flow Rate (cfs)	Existing Culvert Size	Estimated Existing Culvert Capacity (cfs)	<b>Recommended New Culv</b>			
RC-3	35 6400 West	262	262	6' Diameter	310				
RC-3	Spring Canyon Drive	73	73	6'X4' Box	132				

Alternative 1 is the not the recommended alternative. See alternative 3 (Figure 6-3) for the recommended improvements. Cost estimates and channel improvements for alternative 1 are identified on Figure 6-1.

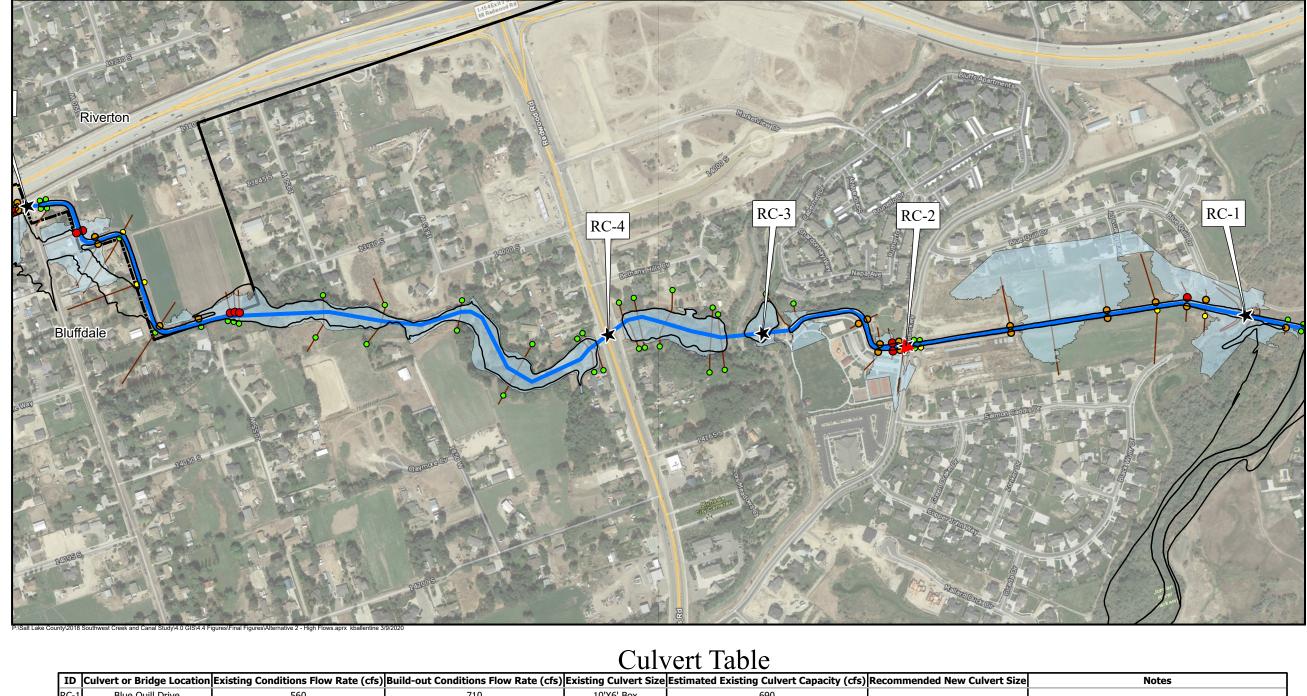


## Index Map



### LEGEND Culvert Deficiency $\star$ Existing Culvert ★ Existing Bridge Rose Creek Freeboard At Proposed Flow Rate Bank Overtopping 0 0 - 1 feet 0 1 - 2 feet 2 + feet $\mathbf{O}$ Rose Creek Estimated 100-year Floodplain Municipal Boundary Preliminary FEMA Floodplain Boundary HEC-RAS Cross Section With Station SCALE: NORTH:

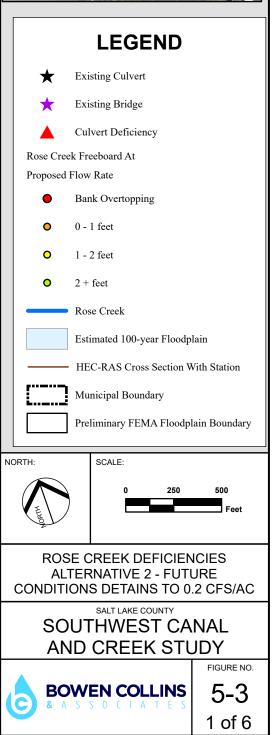
#### ROSE CREEK DEFICIENCIES EXISTING CONDITIONS OR ALTERNATIVE 1 - FUTURE DEVELOPMENT RETAINS SALT LAKE COUNTY SOUTHWEST CANAL AND CREEK STUDY BOWEN COLLINS & A S S O CIATES 6 of 6



ID	Culvert or Bridge Location	Existing Conditions Flow Rate (cfs)	Build-out Conditions Flow Rate (cfs)	Existing Culvert Size	Estimated Existing Culvert Capacity (cfs)	<b>Recommended New Culvert Size</b>	Notes				
RC-1	1 Blue Quill Drive	560	710	10'X6' Box	690						
RC-2	2 1300 West	560	710	10'X6' Box	550	15'X6' Box	Low Priority. Floodplain doesn't impact insurable structures.				
RC-3	3 South Jordan Canal Crossing	560	710	10'X4' Box	720						
RC-4	4 Redwood Road	540	690	10'X6' Box	830						

Alternative 2 is the not the recommended alternative. See alternative 3 (Figure 6-3) for the recommended improvements. Cost estimates and channel improvements for alternative 2 are identified on Figure 6-2.





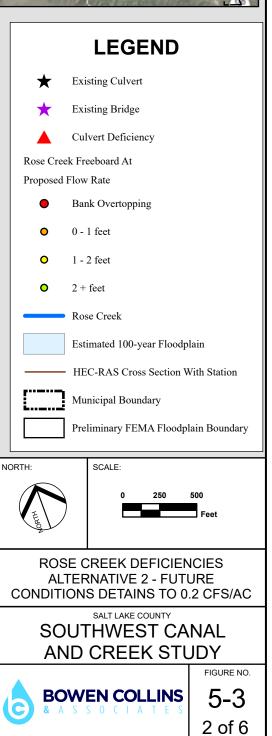


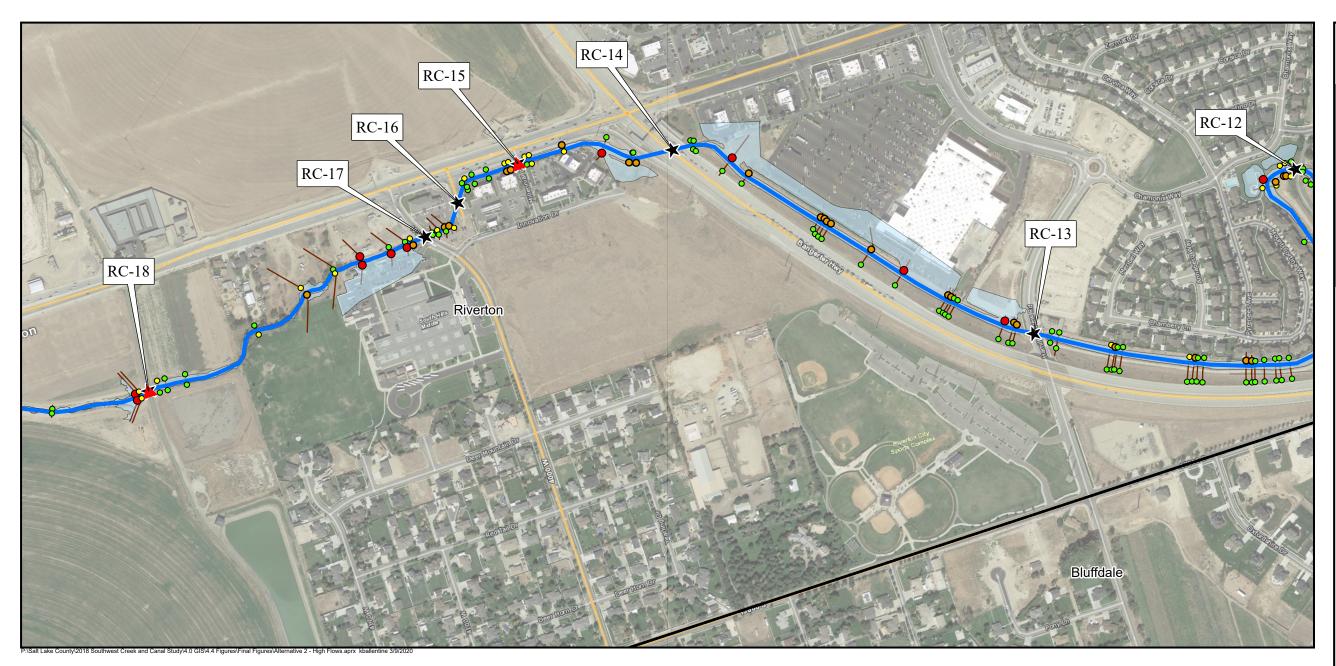
ID	Culvert or Bridge Location	Existing Conditions Flow Rate (cfs)	Build-out Conditions Flow Rate (cfs)	Existing Culvert Size	Estimated Existing Culvert Capacity (cfs)	<b>Recommended New Culvert Size</b>	Notes
RC-5	2200 West	535	690	13'X5.5' Box	767		
RC-6	Utah and Salt Lake Canal Crossing	530	690	8'X5' Box	696		
RC-7	Bangerter Hwy @ 2700 West	490	650	12'X6' Box	780		Backwater from Bangerter increases flood potential
RC-8	13760 South	470	650	6'X5' Box & 42" Diameter	390	12'X6' Box	High Priority. Flooding will impact h
RC-9	2700 West (90 Bend)	470	650	10'X6' Box	420	12'X6' Box	High Priority. Flooding will impact h
RC-10	3160 West	470	650	10'X4.5' Box	440	13'X6' Box	High Priority. Flooding will impact h
RC-11	Foot Bridge @ 3300 W	470	650	Free spanning Foot Bridge			No Restriction
RC-12	Utah Lake Distributing Canal	470	650	17'X4.8' Box	663		

Alternative 2 is the not the recommended alternative. See alternative 3 (Figure 6-3) for the recommended improvements. Cost estimates and channel improvements for alternative 2 are identified on Figure 6-2.

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t homes

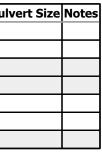






ID	Culvert or Bridge Location	Existing Conditions Flow Rate (cfs)	Build-out Conditions Flow Rate (cfs)	Existing Culvert Size	Estimated Existing Culvert Capacity (cfs)	<b>Recommended New Culv</b>
RC-12	Utah Lake Distributing Canal	470	650	17'X4.8' Box	663	
RC-13	3600 West	390	570	13'X5' Box	663	
RC-14	Bangerter Hwy at 13400 South	390	570	13'X6' Box	572	
RC-15	Millennial Drive	350	505	15'X4' Box	450	
RC-16	4050 West	350	505	Parallel 6'X5' Box	516	
RC-17	4000 West	350	505	13'X6' Box	572	
RC-18	Welby Jacob's Canal	350	505	6'X4' Box	276	14'X6' Box

Alternative 2 is the not the recommended alternative. See alternative 3 (Figure 6-3) for the recommended improvements. Cost estimates and channel improvements for alternative 2 are identified on Figure 6-2.

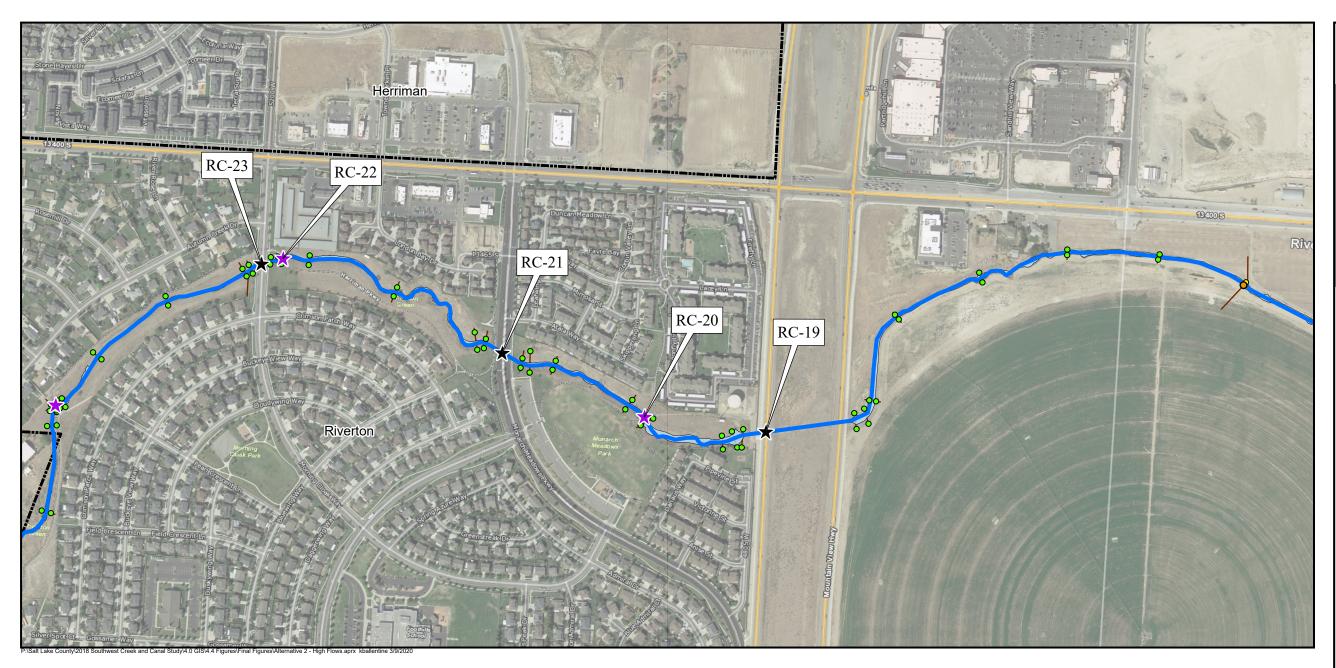


### Index Map



#### LEGEND Existing Culvert $\star$ Existing Bridge Culvert Deficiency Rose Creek Freeboard At Proposed Flow Rate Bank Overtopping 0 - 1 feet 0 0 1 - 2 feet 0 2 + feetRose Creek Estimated 100-year Floodplain HEC-RAS Cross Section With Station Municipal Boundary i., Preliminary FEMA Floodplain Boundary NORTH: SCALE: ROSE CREEK DEFICIENCIES ALTERNATIVE 2 - FUTURE CONDITIONS DETAINS TO 0.2 CFS/AC SALT LAKE COUNTY SOUTHWEST CANAL AND CREEK STUDY FIGURE NO. 5-3 **BOWEN COLLINS**

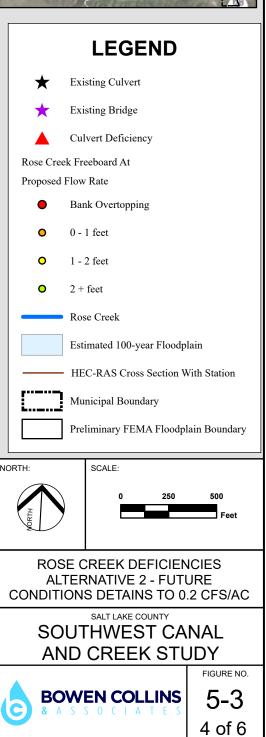
3 of 6

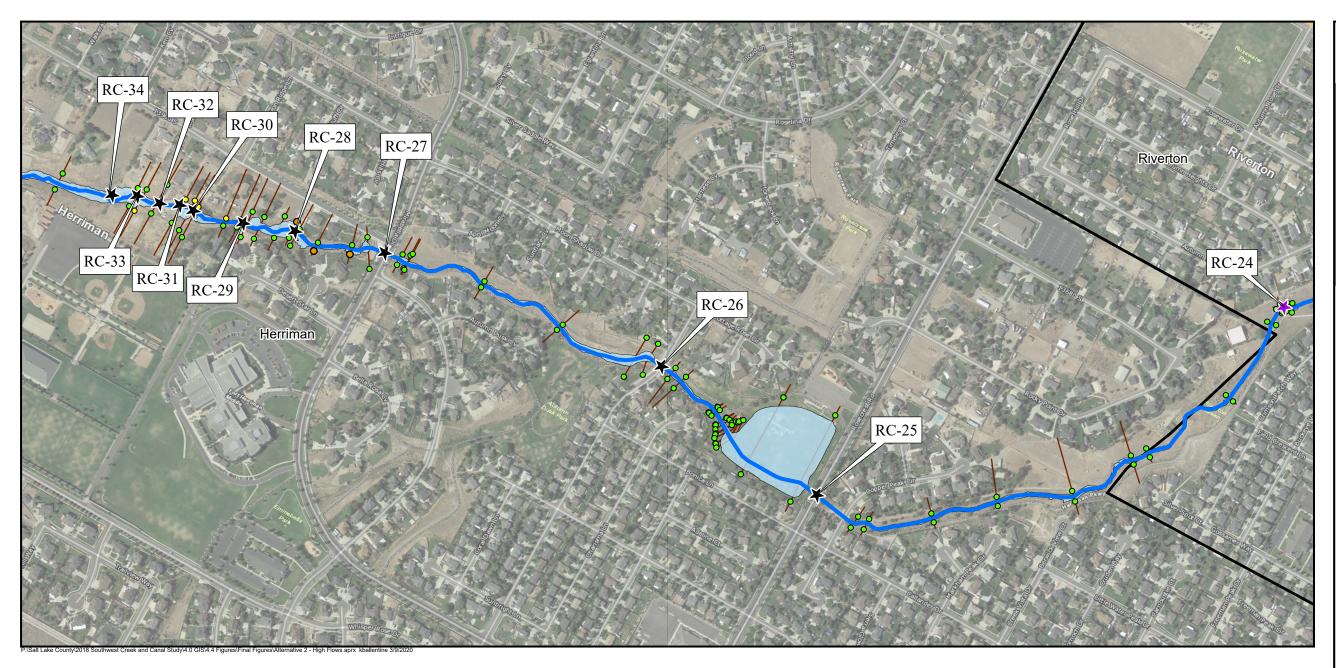


ID	Culvert or Bridge Location	Existing Conditions Flow Rate (cfs)	Build-out Conditions Flow Rate (cfs)	<b>Existing Culvert Size</b>	Estimated Existing Culvert Capacity (cfs)	<b>Recommended New Culvert Size</b>	Notes			
RC-19	MVC	312	312	7' Diameter	600					
RC-20	Foot Bridge @ 4800 W	272	272	Free spanning Foot Bridge			No Restriction			
RC-21	Monarch Meadows Parkway	272	272	Ellipse 12.5'X7'	1500					
RC-22	Foot Bridge @ 5000 W	272	272	Free spanning Foot Bridge			No Restriction			
RC-23	Morning Cloak Way	272	272	6.5' Diameter	370					

Alternative 2 is the not the recommended alternative. See alternative 3 (Figure 6-3) for the recommended improvements. Cost estimates and channel improvements for alternative 2 are identified on Figure 6-2.







ID	Culvert or Bridge Location	Existing Conditions Flow Rate (cfs)	Build-out Conditions Flow Rate (cfs)	Existing Culvert Size	Estimated Existing Culvert Capacity (cfs)	<b>Recommended New Culvert Size</b>	Notes
RC-24	Foot Bridge @ 5300 W	176	176	Free spanning Foot Bridge			No Restriction
RC-25	Rosecrest Rd.	176	176	42" Diameter	180		
RC-26	Friendship Dr.	323	323	6' Diameter	400		
RC-27	Mirabella Dr.	323	323	Parallel 5' Diameter	400		
RC-28	Private Culvert	262	262	18" Diameter		Remove Culvert	Low Priority. Floodplain doesn't impact
RC-29	6100 West	262	262	5'X6' Box	340		
RC-30 through 34	Five (5) Private Culverts	262	262	> 2' Diameter		Remove Culverts	Low Priority. Floodplain doesn't impact

Alternative 2 is the not the recommended alternative. See alternative 3 (Figure 6-3) for the recommended improvements. Cost estimates and channel improvements for alternative 2 are identified on Figure 6-2.

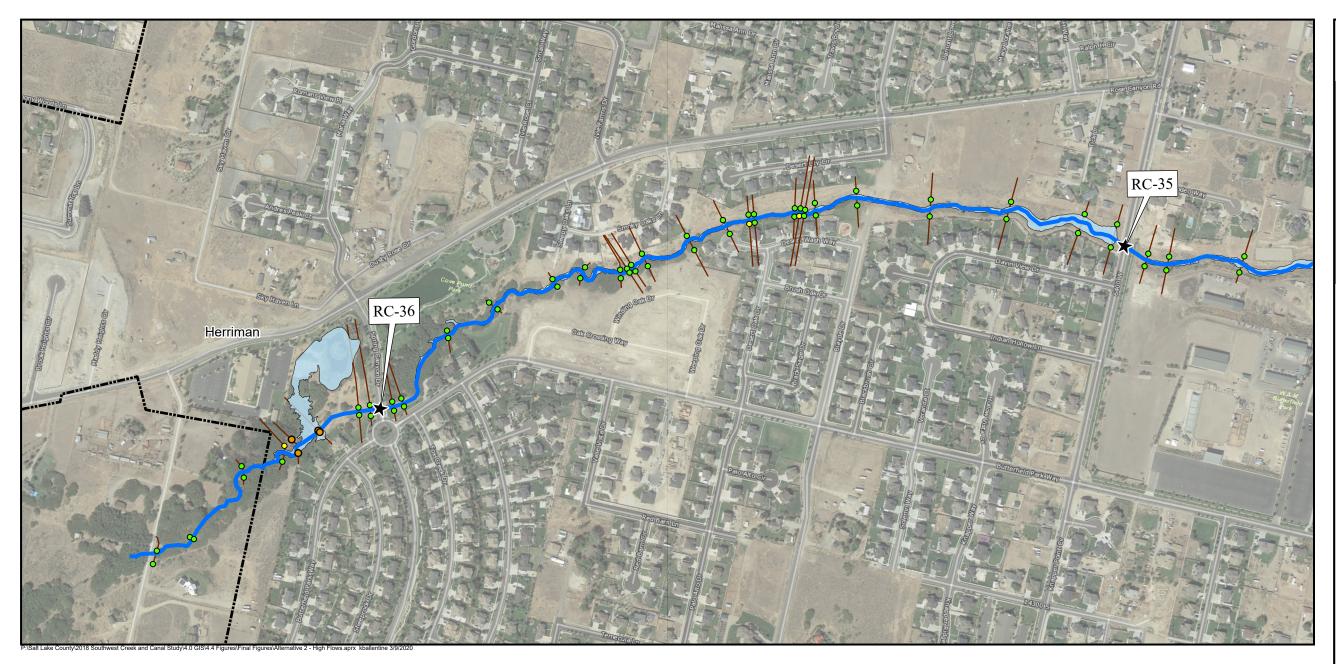
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### Index Map



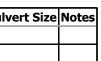
#### LEGEND Existing Culvert $\star$ + Existing Bridge Culvert Deficiency Rose Creek Freeboard At Proposed Flow Rate Bank Overtopping • 0 - 1 feet 0 0 1 - 2 feet 2 + feet0 Rose Creek Estimated 100-year Floodplain HEC-RAS Cross Section With Station Municipal Boundary Preliminary FEMA Floodplain Boundary SCALE: NORTH: ROSE CREEK DEFICIENCIES ALTERNATIVE 2 - FUTURE CONDITIONS DETAINS TO 0.2 CFS/AC SALT LAKE COUNTY SOUTHWEST CANAL AND CREEK STUDY FIGURE NO. **BOWEN COLLINS** 5-3

5 of 6



ID	Culvert or Bridge Location	Existing Conditions Flow Rate (cfs)	Build-out Conditions Flow Rate (cfs)	<b>Existing Culvert Size</b>	Estimated Existing Culvert Capacity (cfs)	Recommended New Culv
RC-35	5 6400 West	262	262	6' Diameter	310	
RC-36	Spring Canyon Drive	73	73	6'X4' Box	132	

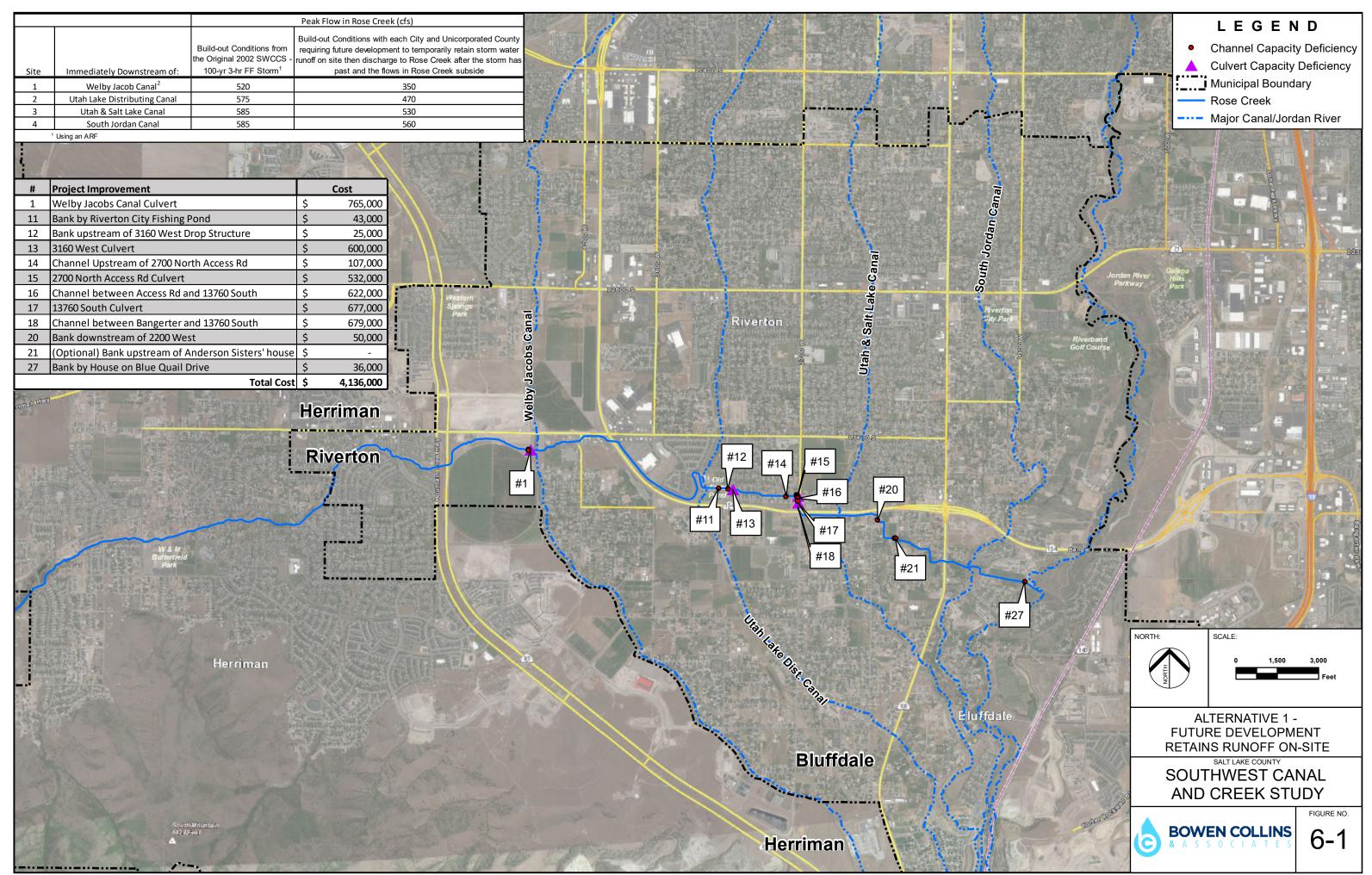
Alternative 2 is the not the recommended alternative. See alternative 3 (Figure 6-3) for the recommended improvements. Cost estimates and channel improvements for alternative 2 are identified on Figure 6-2.



### Index Map

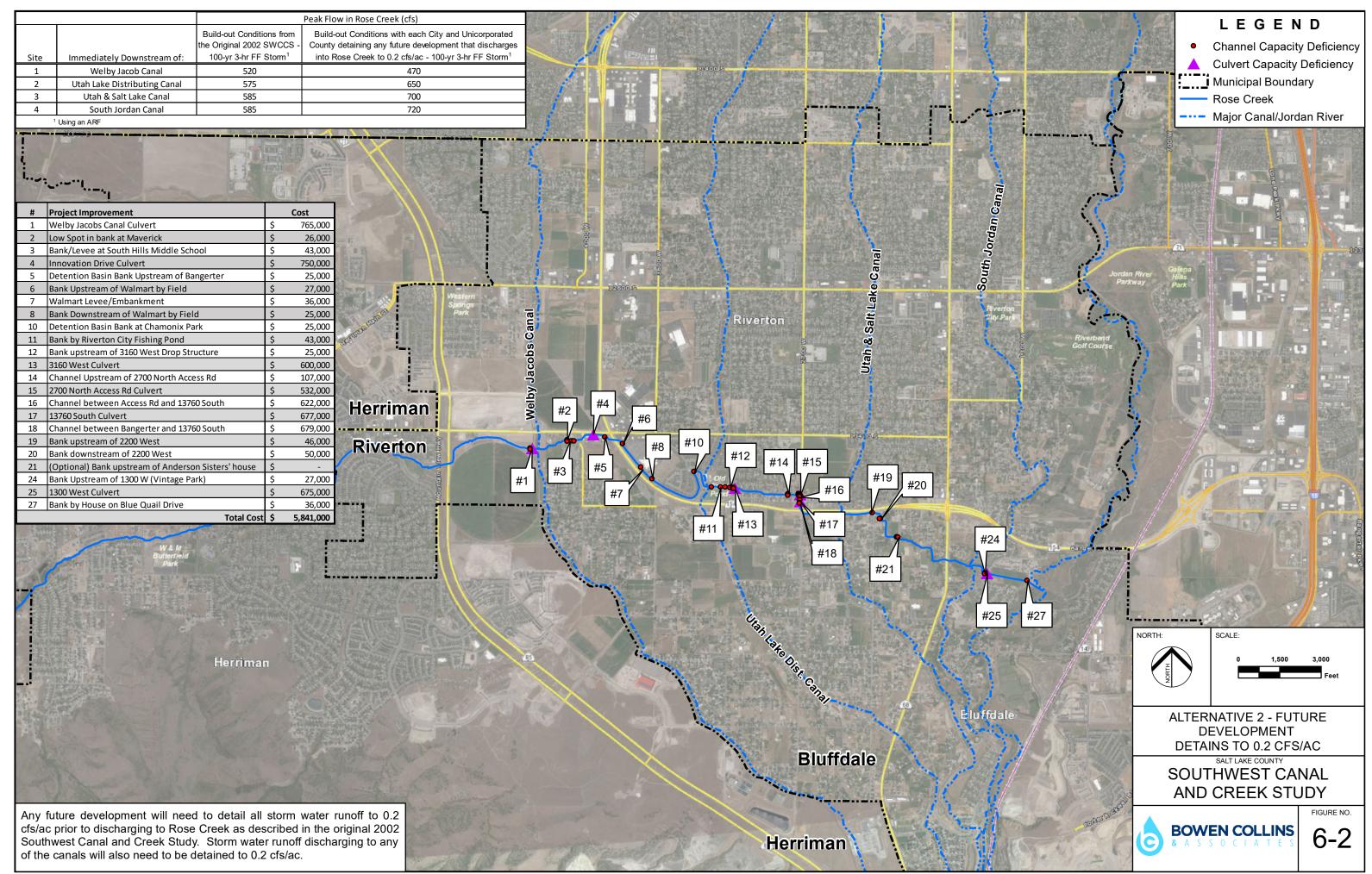


#### LEGEND Existing Culvert $\star$ Existing Bridge Culvert Deficiency Rose Creek Freeboard At Proposed Flow Rate Bank Overtopping • 0 - 1 feet 0 1 - 2 feet 0 2 + feet0 Rose Creek Estimated 100-year Floodplain HEC-RAS Cross Section With Station Municipal Boundary Preliminary FEMA Floodplain Boundary NORTH: SCALE: ROSE CREEK DEFICIENCIES ALTERNATIVE 2 - FUTURE CONDITIONS DETAINS TO 0.2 CFS/AC SALT LAKE COUNTY SOUTHWEST CANAL AND CREEK STUDY FIGURE NO. 5-3 **BOWEN COLLINS** 6 of 6



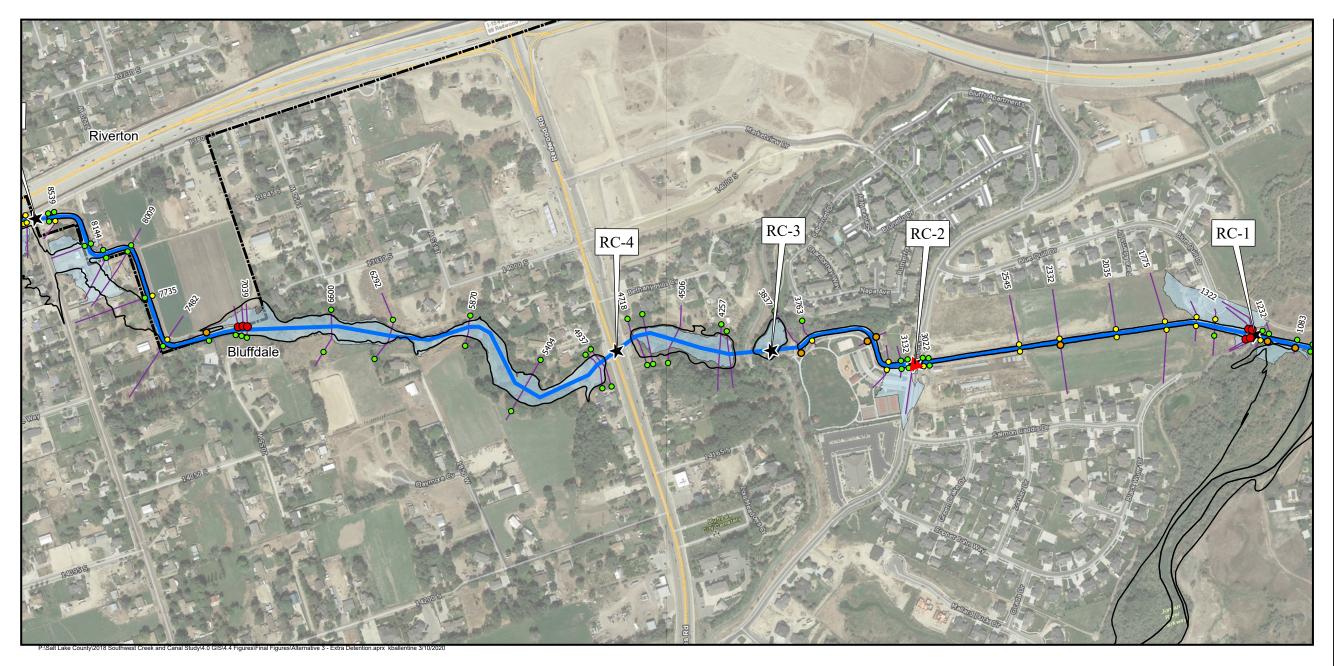
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Section 1: Rose Creek



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#### Section 1: Rose Creek



				0 07 - 1			
ID	Culvert or Bridge Location	Existing Conditions Flow Rate (cfs)	Build-out Conditions Flow Rate (cfs)	Existing Culvert Size	Estimated Existing Culvert Capacity (cfs)	Recommended New Culvert Size	Notes
RC-1	Blue Quill Drive	560	650	10'X6' Box	690		
RC-2	1300 West	560	650	10'X6' Box	550	15'X6' Box	Low Priority. Floodplain doesn't impact in
RC-3	South Jordan Canal Crossing	560	650	10'X4' Box	720		
RC-4	Redwood Road	540	635	10'X6' Box	830		

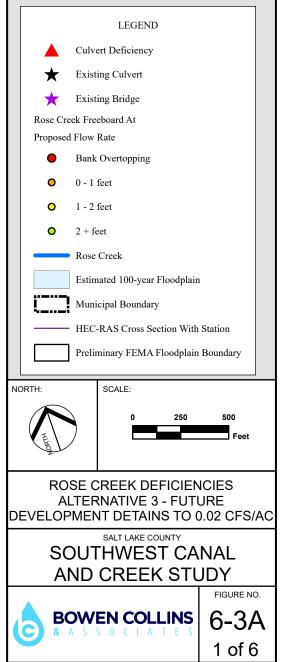
Alternative 3 is the recommended alternative.

Cost estimates and channel improvement and are identified on Figure 6-3B.

Final culvert size needs to be determined during the design process.









ID	Culvert or Bridge Location	Existing Conditions Flow Rate (cfs)	Build-out Conditions Flow Rate (cfs)	Existing Culvert Size	Estimated Existing Culvert Capacity (cfs)	Recommended New Culvert Size	Notes
RC-5	2200 West	535	635	13'X5.5' Box	767		
RC-6	Utah and Salt Lake Canal Crossing	530	635	8'X5' Box	696		
RC-7	Bangerter Hwy @ 2700 West	490	600	12'X6' Box	780		Backwater from Bangerter increases flood potential f
RC-8	13760 South	470	585	6'X5' Box & 42" Diameter	390	12'X6' Box	High Priority. Flooding will impact he
RC-9	2700 West (90 Bend)	470	585	10'X6' Box	420	12'X6' Box	High Priority. Flooding will impact he
RC-10	3160 West	470	585	10'X4.5' Box	440	13'X6' Box	High Priority. Flooding will impact he
RC-11	Foot Bridge @ 3300 W	470	585	Free spanning Foot Bridge			No Restriction
RC-12	Utah Lake Distributing Canal	470	585	17'X4.8' Box	663		

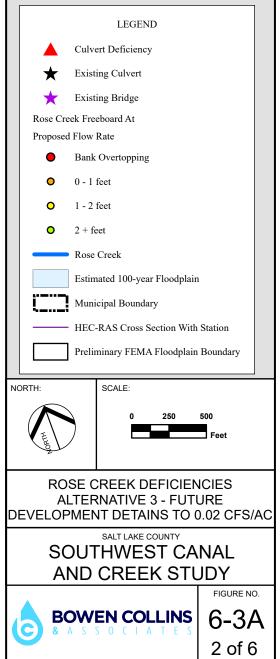
Alternative 3 is the recommended alternative.

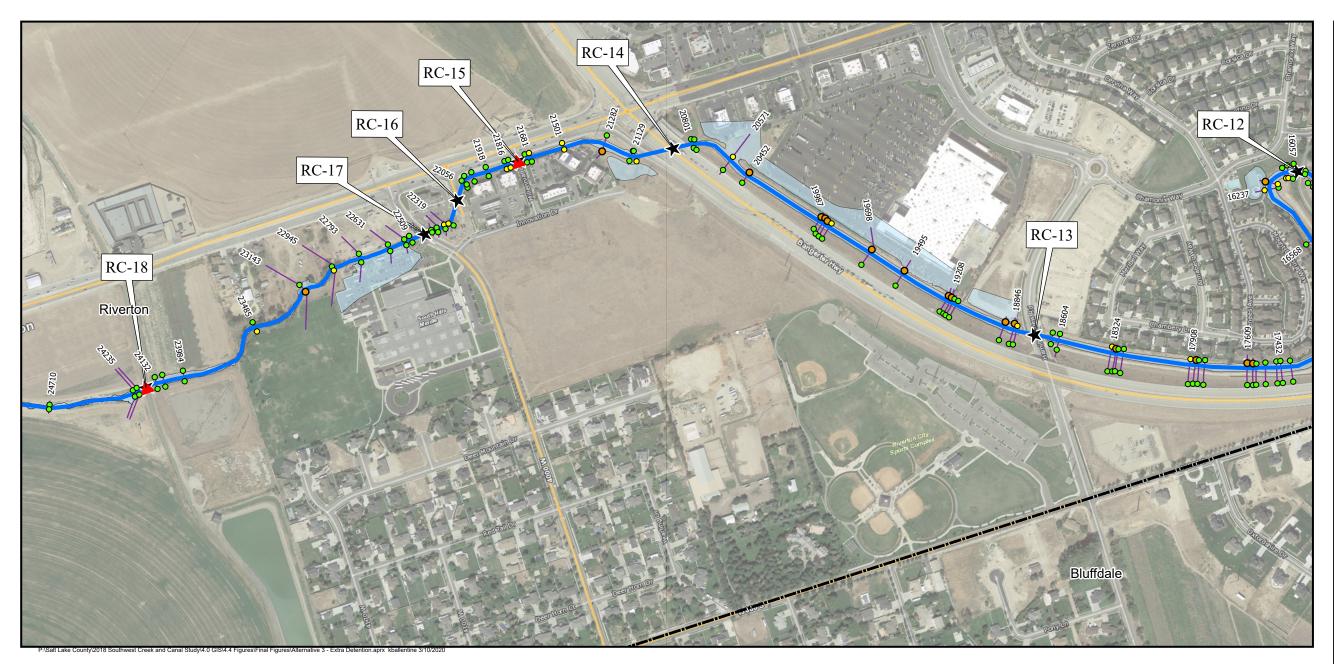
Cost estimates and channel improvement and are identified on Figure 6-3B.

Final culvert size needs to be determined during the design process.

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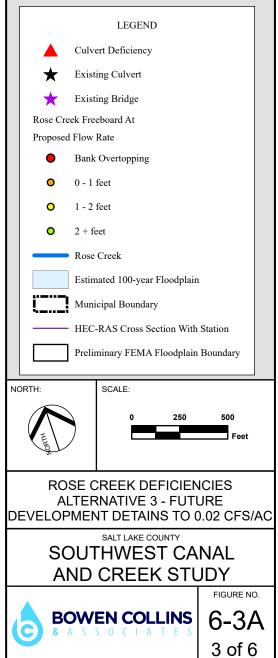
ID	Culvert or Bridge Location	Existing Conditions Flow Rate (cfs)	Build-out Conditions Flow Rate (cfs)	Existing Culvert Size	Estimated Existing Culvert Capacity (cfs)	Recommended New Culv
RC-12	Utah Lake Distributing Canal	470	585	17'X4.8' Box	663	
RC-13	36oo West	390	510	13'X5' Box	663	
RC-14	Bangerter Hwy at 13400 South	390	510	13'X6' Box	572	
RC-15		350	450	15'X4' Box	450	
RC-16		350	450	Parallel 6'X5' Box	516	
RC-17		350	450	13'X6' Box	572	
RC-18	Welby Jacob's Canal	350	450	6'X4' Box	276	14'X6' Box

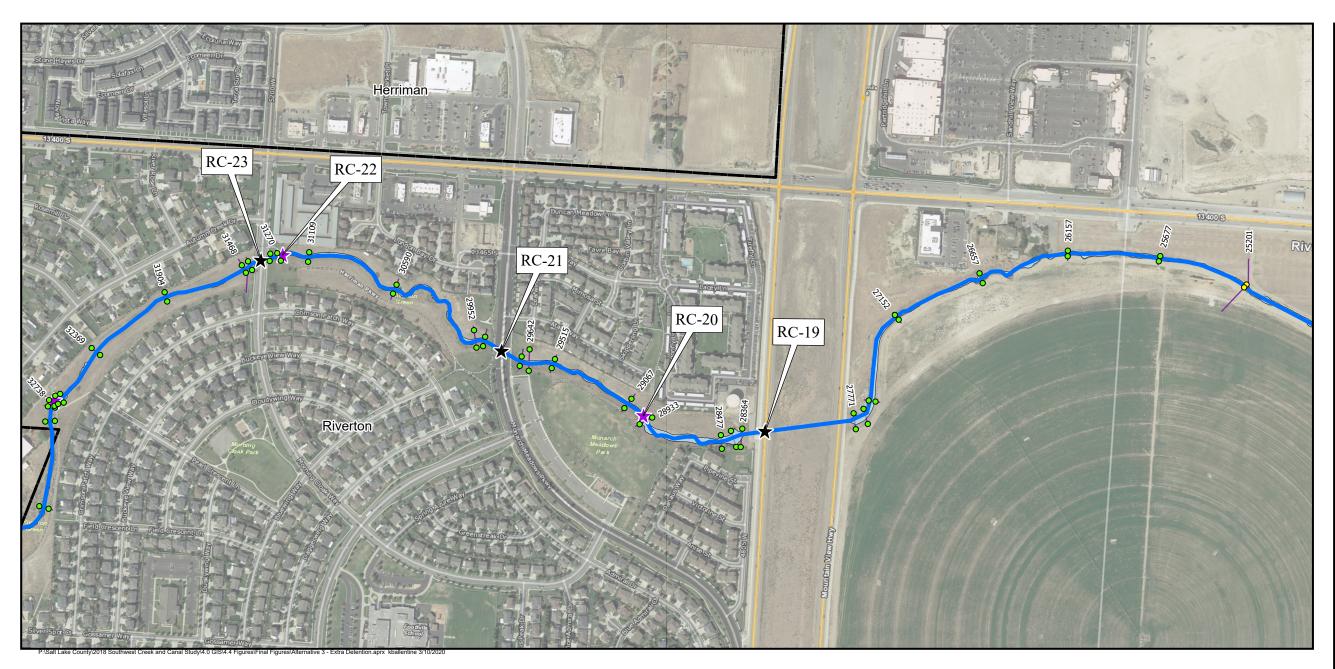
Alternative 3 is the recommended alternative.

Cost estimates and channel improvement and are identified on Figure 6-3B. Final culvert size needs to be determined during the design process.







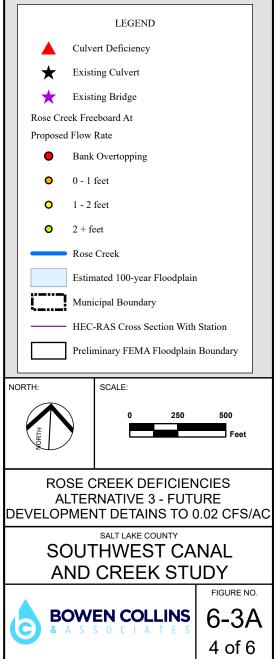


	D	Culvert or Bridge Location	Existing Conditions Flow Rate (cfs)	Build-out Conditions Flow Rate (cfs)	Existing Culvert Size	Estimated Existing Culvert Capacity (cfs)	Recommended New Culvert Size	Notes			
RC	-19	MVC	312	312	7' Diameter	600					
RC	-20	Foot Bridge @ 4800 W	272	272	Free spanning Foot Bridge			No Restriction			
RC	-21	Monarch Meadows Parkway	272	272	Ellipse 12.5'X7'	1500					
RC	2-22	Foot Bridge @ 5000 W	272	272	Free spanning Foot Bridge			No Restriction			
RC	2-23	Morning Cloak Way	272	272	6.5' Diameter	370					

Alternative 3 is the recommended alternative.

Cost estimates and channel improvement and are identified on Figure 6-3B. Final culvert size needs to be determined during the design process.



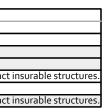




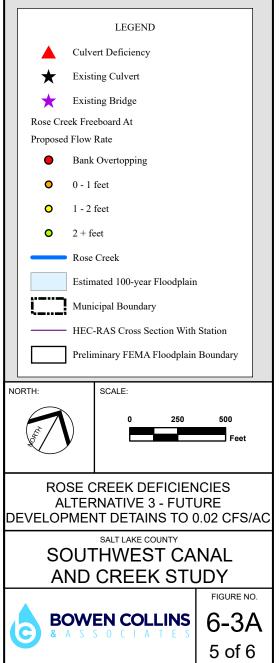
ID	Culvert or Bridge Location	Existing Conditions Flow Rate (cfs)	Build-out Conditions Flow Rate (cfs)	Existing Culvert Size	Estimated Existing Culvert Capacity (cfs)	Recommended New Culvert Size	Notes
RC-24	Foot Bridge @ 5300 W	176	176	Free spanning Foot Bridge			No Restriction
RC-25	Rosecrest Rd.	176	176	42" Diameter	180		
RC-26	Friendship Dr.	323	323	6' Diameter	400		
RC-27	Mirabella Dr.	323	323	Parallel 5' Diameter	400		
RC-28	Private Culvert	262	262	18" Diameter		Remove Culvert	Low Priority. Floodplain doesn't impact i
RC-29	6100 West	262	262	5'X6' Box	340		
RC-30 through 34	Five (5) Private Culverts	262	262	> 2' Diameter		Remove Culverts	Low Priority. Floodplain doesn't impact i

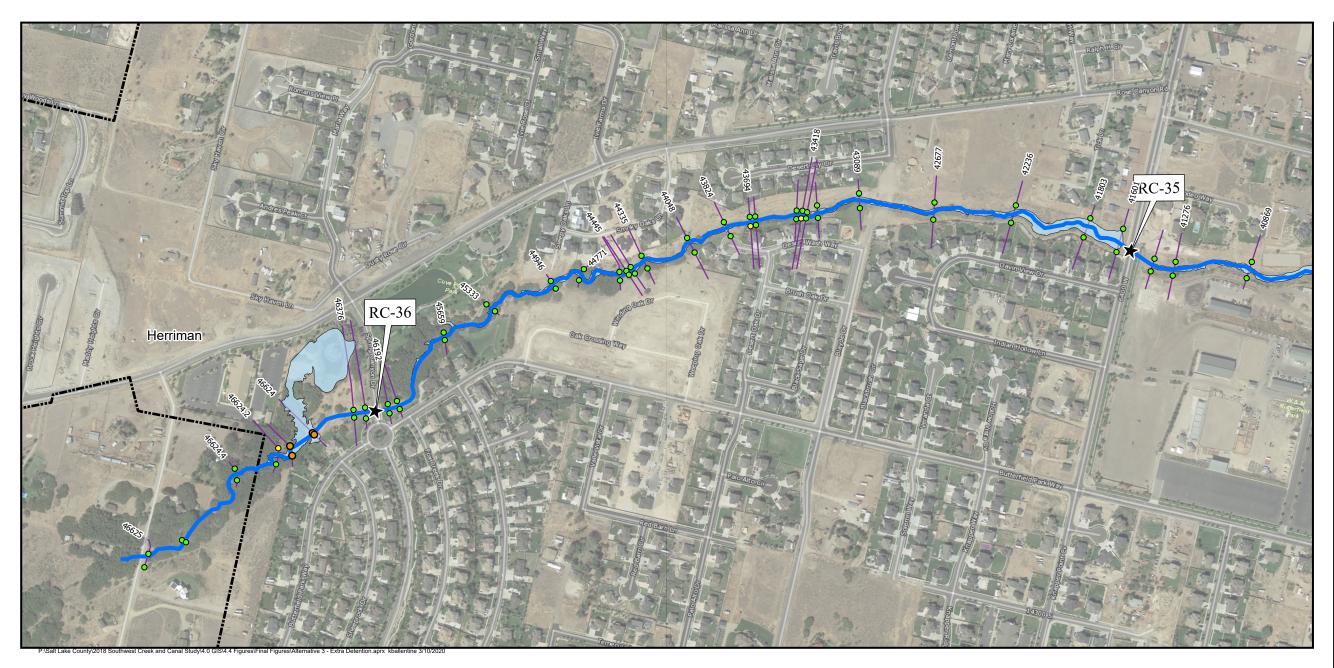
Alternative 3 is the recommended alternative.

Cost estimates and channel improvement and are identified on Figure 6-3B. Final culvert size needs to be determined during the design process.







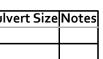


ID	Culvert or Bridge Location	Existing Conditions Flow Rate (cfs)	Build-out Conditions Flow Rate (cfs)	Existing Culvert Size	Estimated Existing Culvert Capacity (cfs)	Recommended New Culv				
	6400 West	262	262	6' Diameter	310					
RC-3	6 Spring Canyon Drive	73	73	6'X4' Box	132					

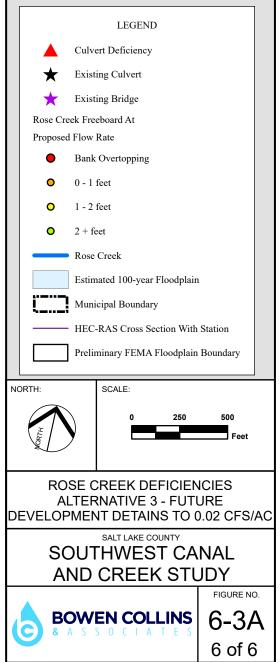
Alternative 3 is the recommended alternative.

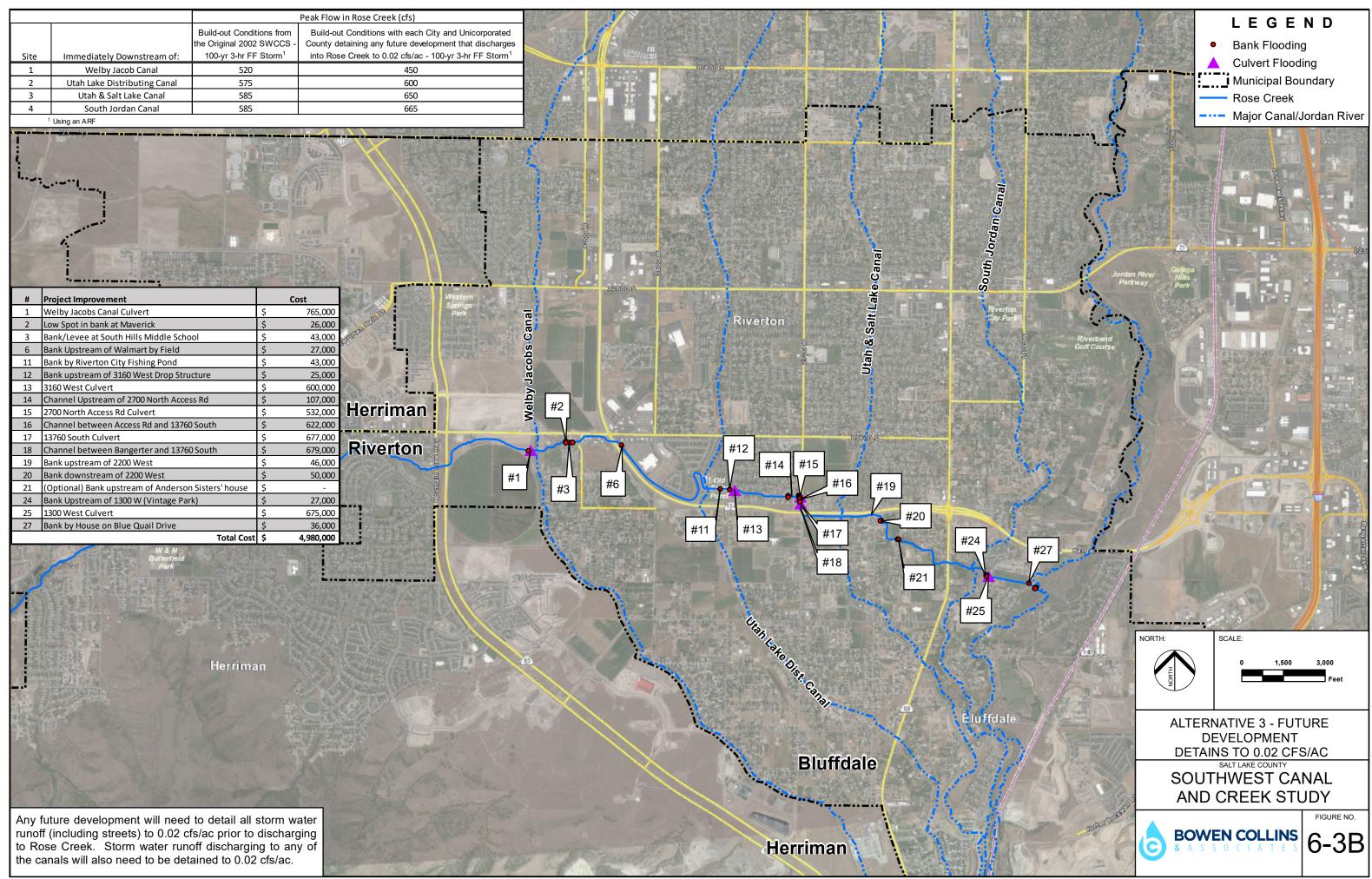
Cost estimates and channel improvement and are identified on Figure 6-3B.

Final culvert size needs to be determined during the design process.

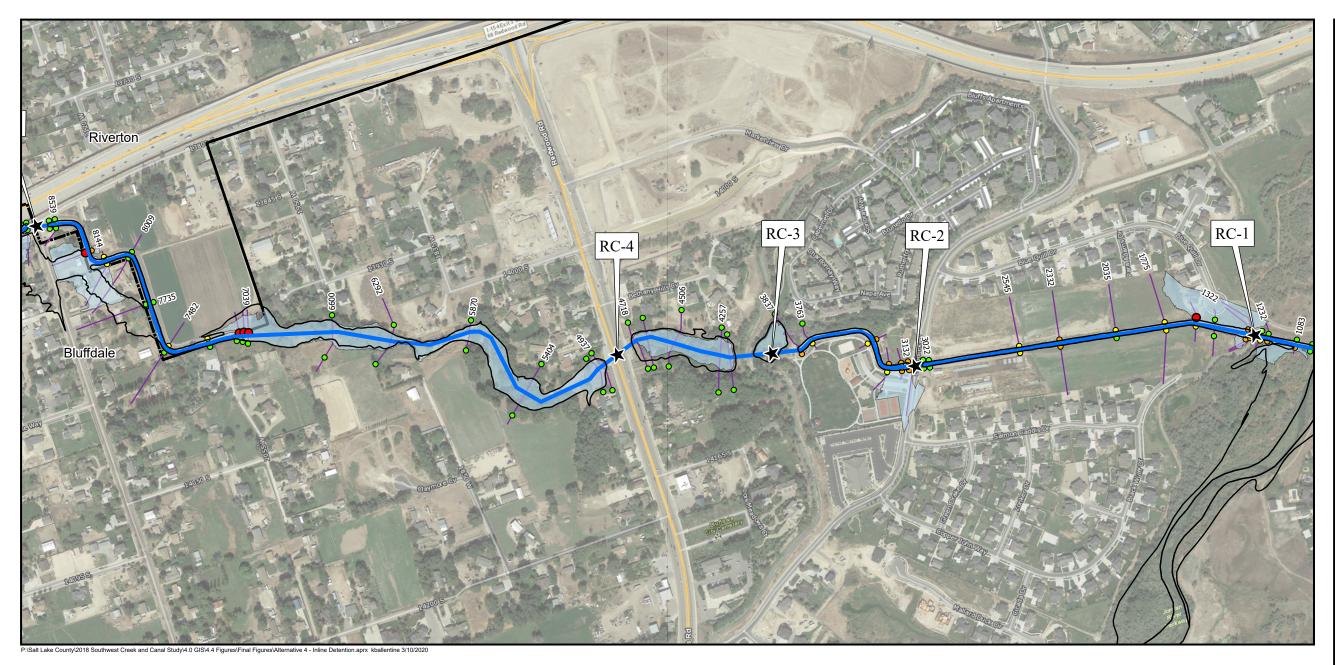








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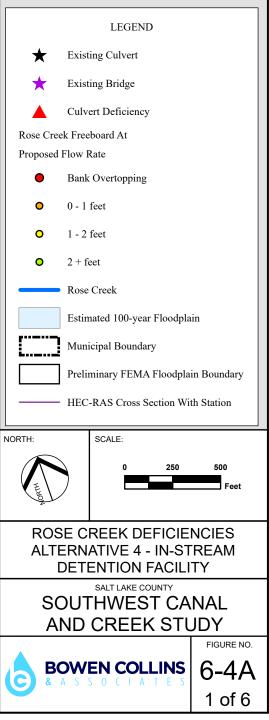


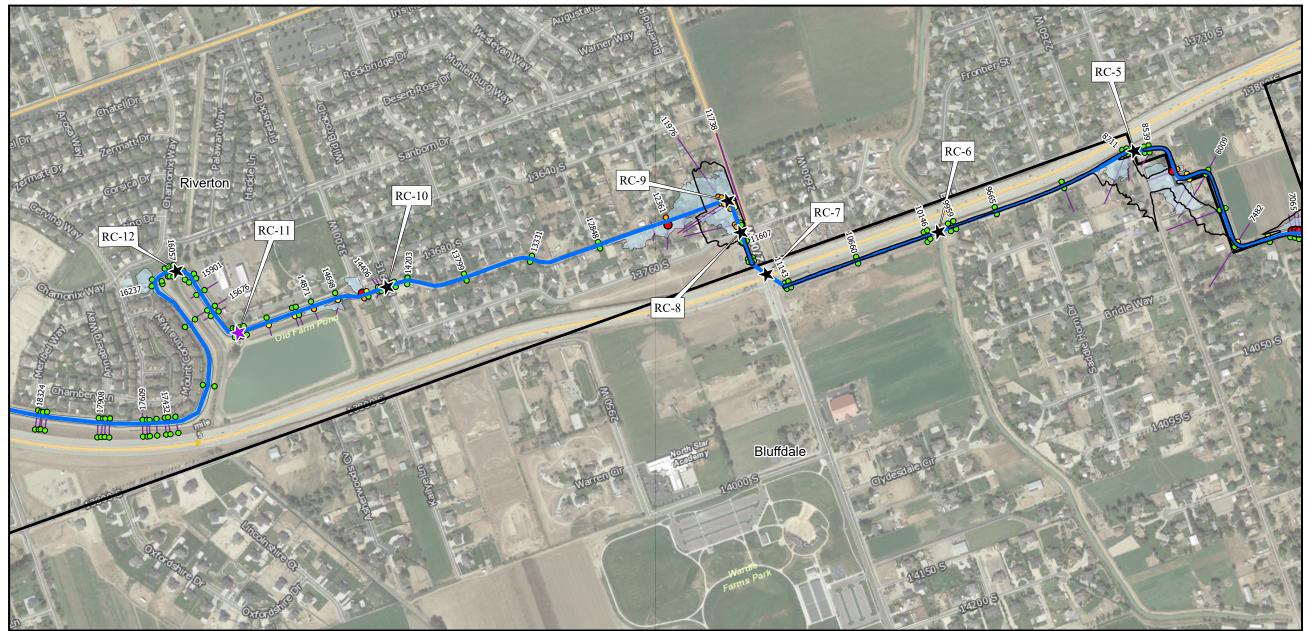
ID	Culvert or Bridge Location	Existing Conditions Flow Rate (cfs)	Build-out Conditions Flow Rate (cfs)	Existing Culvert Size	Estimated Existing Culvert Capacity (cfs)	<b>Recommended New Culvert Size</b>	Notes
RC-	1 Blue Quill Drive	560	585	10'X6' Box	690		
RC-2	2 1300 West	560	585	10'X6' Box	550		Minimal Flooding. No projec
RC-3	3 South Jordan Canal Crossing	560	585	10'X4' Box	720		
RC-4	4 Redwood Road	540	540	10'X6' Box	830		

Alternative 4 is the not the recommended alternative. See alternative 3 (Figure 6-3) for the recommended improvements. Cost estimates and channel improvements for alternative 4 are identified on Figure 6-4B.

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ject is recommended.







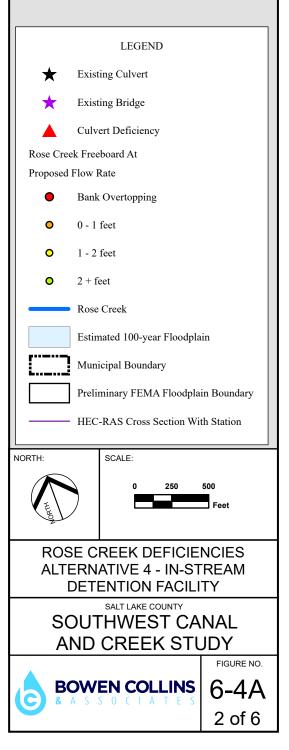
Lake County\2018 Southwest Creek and Canal Study\4.0 GIS\4.4 Figures\Final Figures\Alternative 4 - Inline Detention.aprx kballentine 3/10/2020

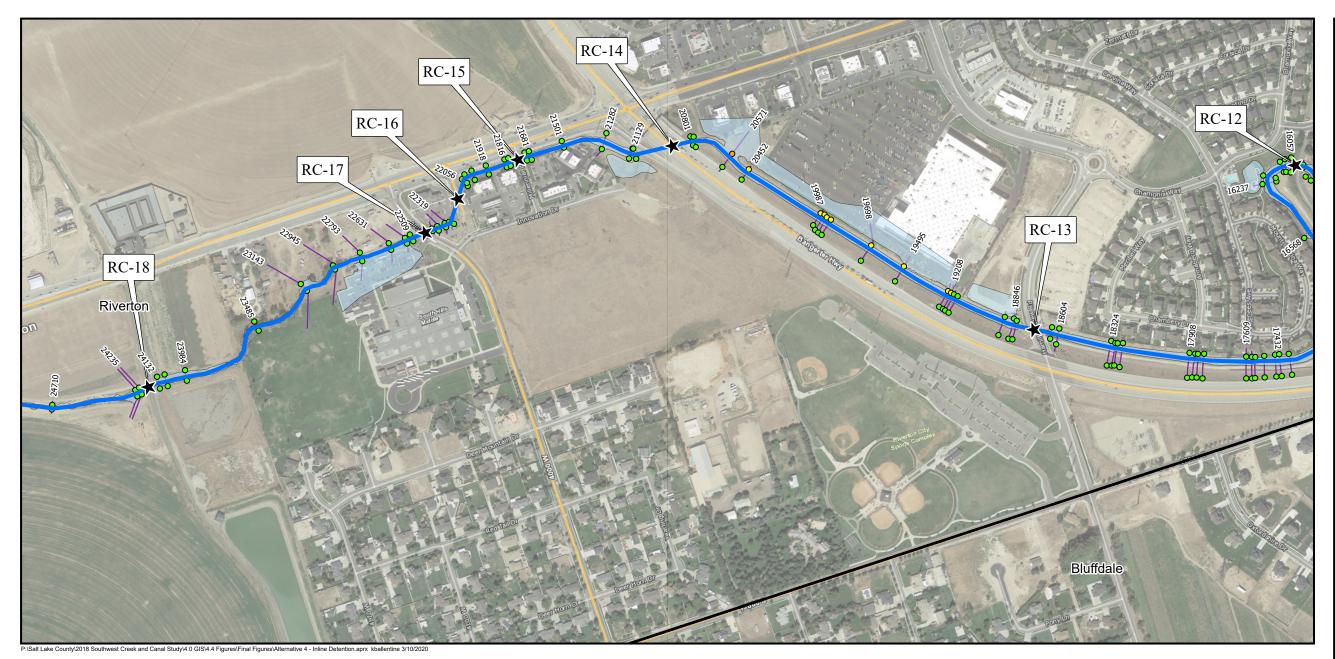
ID	<b>Culvert or Bridge Location</b>	Existing Conditions Flow Rate (cfs)	Build-out Conditions Flow Rate (cfs)	<b>Existing Culvert Size</b>	Estimated Existing Culvert Capacity (cfs)	<b>Recommended New Culvert Si</b>
RC-5	2200 West	535	540	13'X5.5' Box	767	
RC-6	Utah and Salt Lake Canal Crossing	530	540	8'X5' Box	696	
RC-7	Bangerter Hwy @ 2700 West	490	530	12'X6' Box	780	
RC-8	13760 South	470	365	6'X5' Box & 42" Diameter	390	
RC-9	2700 West (90 Bend)	470	365	10'X6' Box	420	
RC-10	3160 West	470	365	10'X4.5' Box	440	
RC-11	Foot Bridge @ 3300 W	470	365	Free spanning Foot Bridge		
RC-12	Utah Lake Distributing Canal	470	585	17'X4.8' Box	663	

Alternative 4 is the not the recommended alternative. See alternative 3 (Figure 6-3) for the recommended improvements. Cost estimates and channel improvements for alternative 4 are identified on Figure 6-4B.



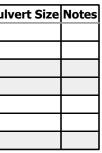




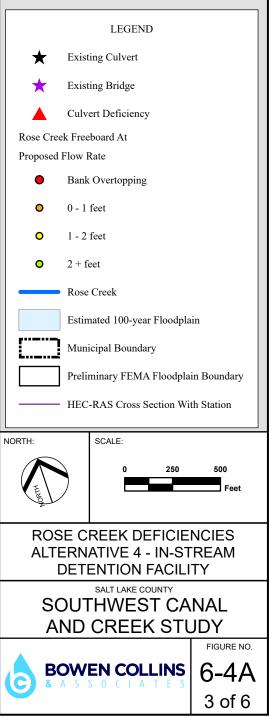


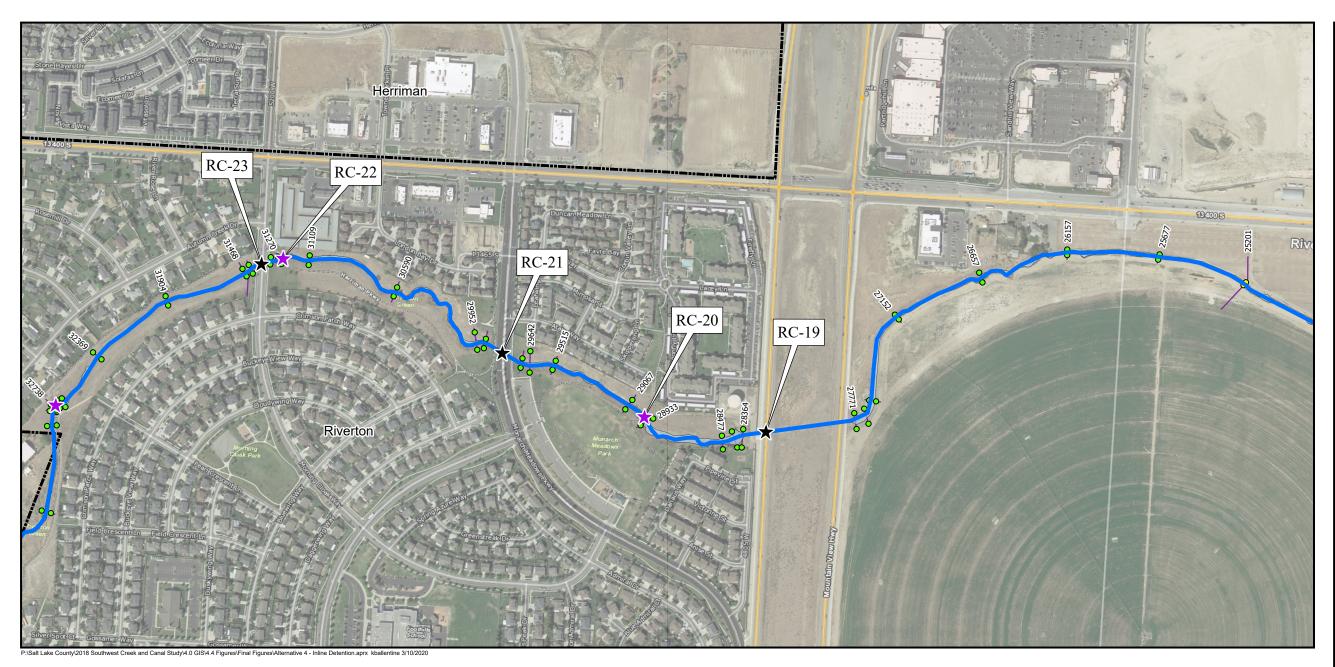
<b>Culvert or Bridge Location</b>	Existing Conditions Flow Rate (cfs)	Build-out Conditions Flow Rate (cfs)	<b>Existing Culvert Size</b>	Estimated Existing Culvert Capacity (cfs)	<b>Recommended New Culv</b>
Utah Lake Distributing Canal	470	585	17'X4.8' Box	663	
3600 West	390	250	13'X5' Box	663	
Bangerter Hwy at 13400 South	390	250	13'X6' Box	572	
Millennial Drive	350	60	15'X4' Box	450	
4050 West	350	60	Parallel 6'X5' Box	516	
4000 West	350	60	13'X6' Box	572	
Welby Jacob's Canal	350	60	6'X4' Box	276	
	Utah Lake Distributing Canal 3600 West Bangerter Hwy at 13400 South Millennial Drive 4050 West 4000 West	Utah Lake Distributing Canal4703600 West390Bangerter Hwy at 13400 South390Millennial Drive3504050 West3504000 West350	Utah Lake Distributing Canal         470         585           3600 West         390         250           Bangerter Hwy at 13400 South         390         250           Millennial Drive         350         60           4050 West         350         60           4000 West         350         60	Utah Lake Distributing Canal         470         585         17'X4.8' Box           3600 West         390         250         13'X5' Box           Bangerter Hwy at 13400 South         390         250         13'X6' Box           Millennial Drive         350         60         15'X4' Box           4050 West         350         60         Parallel 6'X5' Box           4000 West         350         60         13'X6' Box	3600 West         390         250         13'X5' Box         663           Bangerter Hwy at 13400 South         390         250         13'X6' Box         572           Millennial Drive         350         60         15'X4' Box         450           4050 West         350         60         Parallel 6'X5' Box         516           4000 West         350         60         13'X6' Box         572

Alternative 4 is the not the recommended alternative. See alternative 3 (Figure 6-3) for the recommended improvements. Cost estimates and channel improvements for alternative 4 are identified on Figure 6-4B.





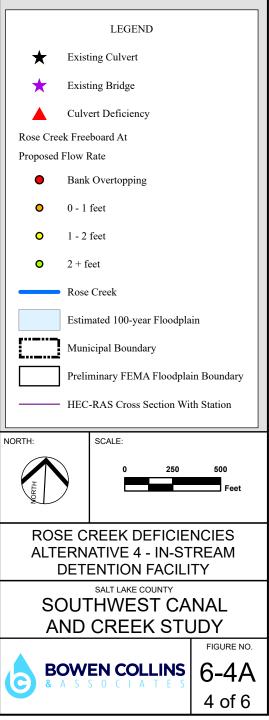


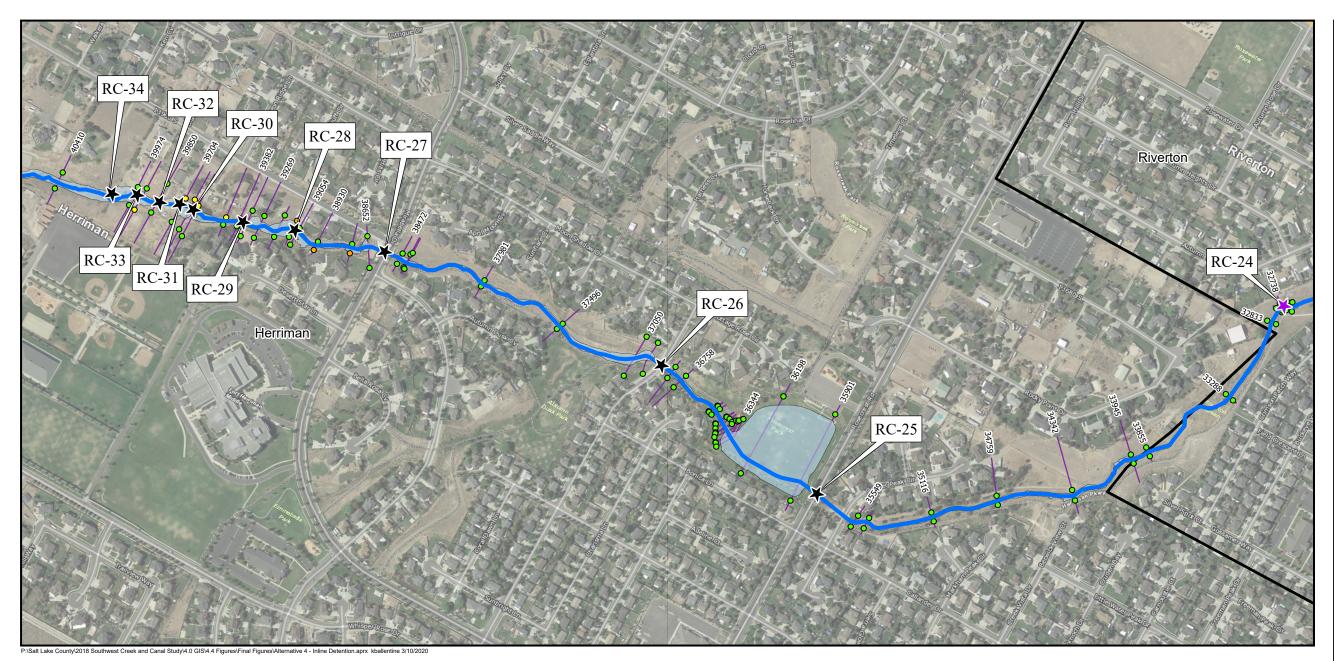


ID	<b>Culvert or Bridge Location</b>	Existing Conditions Flow Rate (cfs)	Build-out Conditions Flow Rate (cfs)	<b>Existing Culvert Size</b>	Estimated Existing Culvert Capacity (cfs)	<b>Recommended New Culvert Size</b>	Notes				
RC-19	MVC	312	312	7' Diameter	600						
RC-20	Foot Bridge @ 4800 W	272	272	Free spanning Foot Bridge			No Restriction				
RC-21	Monarch Meadows Parkway	272	272	Ellipse 12.5'X7'	1500						
RC-22	Foot Bridge @ 5000 W	272	272	Free spanning Foot Bridge			No Restriction				
RC-23	Morning Cloak Way	272	272	6.5' Diameter	370						

Alternative 4 is the not the recommended alternative. See alternative 3 (Figure 6-3) for the recommended improvements. Cost estimates and channel improvements for alternative 4 are identified on Figure 6-4B.

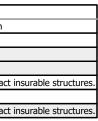




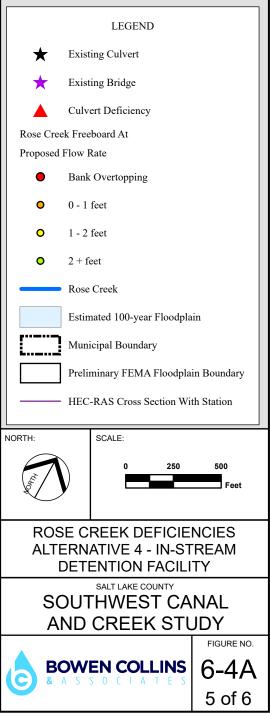


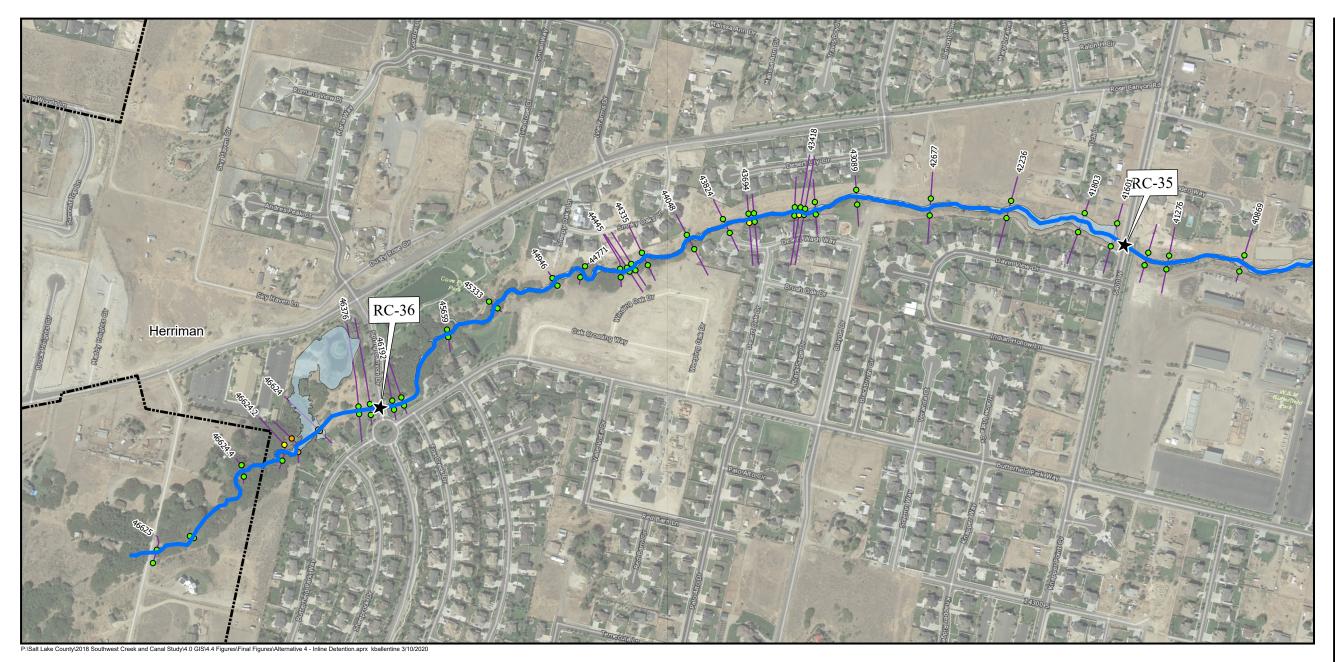
ID	Culvert or Bridge Location	Existing Conditions Flow Rate (cfs)	Build-out Conditions Flow Rate (cfs)	Existing Culvert Size	Estimated Existing Culvert Capacity (cfs)	<b>Recommended New Culvert Size</b>	Notes
RC-24	Foot Bridge @ 5300 W	176	176	Free spanning Foot Bridge			No Restriction
RC-25	Rosecrest Rd.	176	176	42" Diameter	180		
RC-26	Friendship Dr.	323	323	6' Diameter	400		
RC-27	Mirabella Dr.	323	323	Parallel 5' Diameter	400		
RC-28	Private Culvert	262	262	18" Diameter		Remove Culvert	Low Priority. Floodplain doesn't impact
RC-29	6100 West	262	262	5'X6' Box	340		
RC-30 through 34	Five (5) Private Culverts	262	262	> 2' Diameter		Remove Culverts	Low Priority. Floodplain doesn't impact

Alternative 4 is the not the recommended alternative. See alternative 3 (Figure 6-3) for the recommended improvements. Cost estimates and channel improvements for alternative 4 are identified on Figure 6-4B.



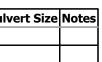




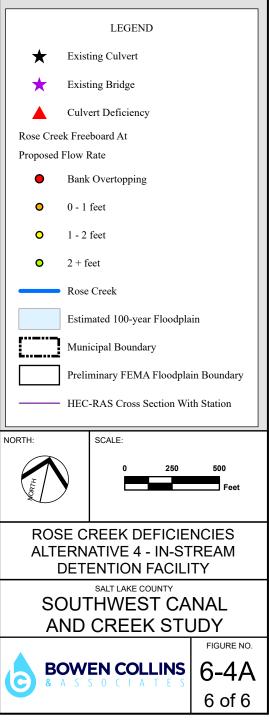


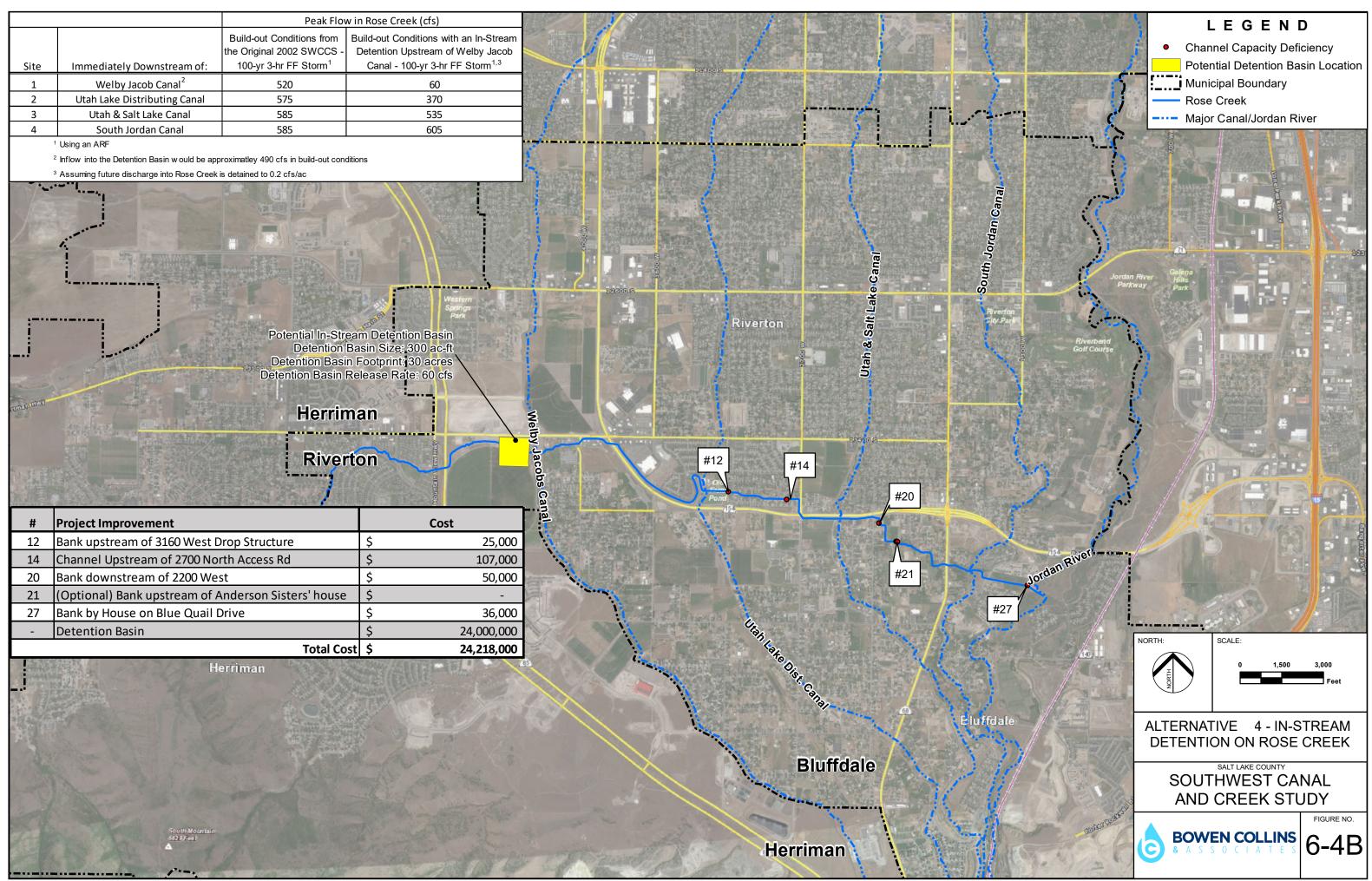
[	ID	Culvert or Bridge Location	Existing Conditions Flow Rate (cfs)	Build-out Conditions Flow Rate (cfs)	Existing Culvert Size	Estimated Existing Culvert Capacity (cfs)	<b>Recommended New Culv</b>		
	RC-35	6400 West	262	262	6' Diameter	310			
[	RC-36	Spring Canyon Drive	73	73	6'X4' Box	132			

Alternative 4 is the not the recommended alternative. See alternative 3 (Figure 6-3) for the recommended improvements. Cost estimates and channel improvements for alternative 4 are identified on Figure 6-4B.



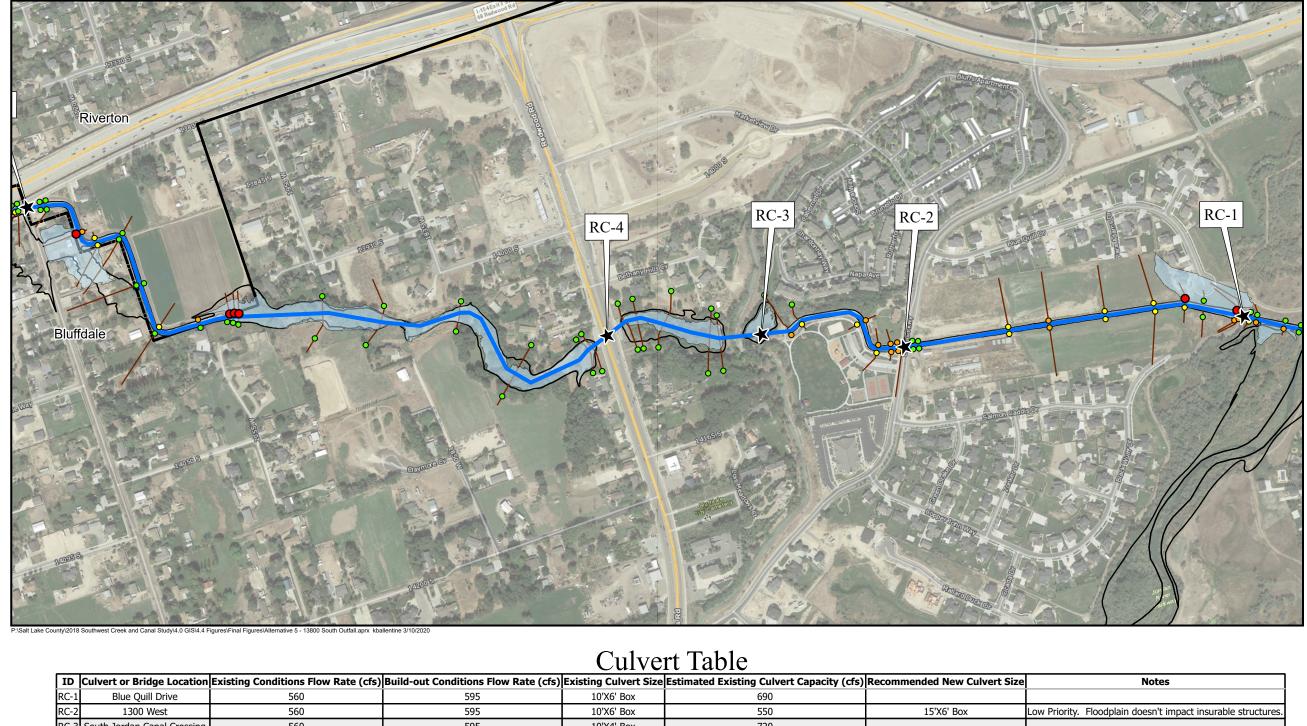






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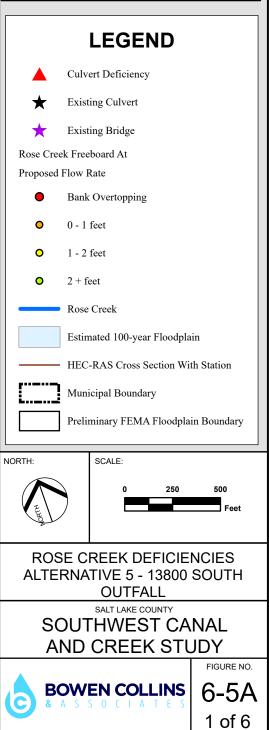
Section 1: Rose Creek



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Γ	ID	Culvert or Bridge Location	Existing Conditions Flow Rate (cfs)	Build-out Conditions Flow Rate (cfs)	Existing Culvert Size	Estimated Existing Culvert Capacity (cfs)	<b>Recommended New Culvert Size</b>	Notes
F	RC-1	Blue Quill Drive	560	595	10'X6' Box	690		
F	RC-2	1300 West	560	595	10'X6' Box	550	15'X6' Box	Low Priority. Floodplain doesn't impact ir
F	RC-3	South Jordan Canal Crossing	560	595	10'X4' Box	720		
F	۲C-4	Redwood Road	540	585	10'X6' Box	830		

Alternative 5 is the not the recommended alternative. See alternative 3 (Figure 6-3) for the recommended improvements. Cost estimates and channel improvements for alternative 5 are identified on Figure 6-5B.







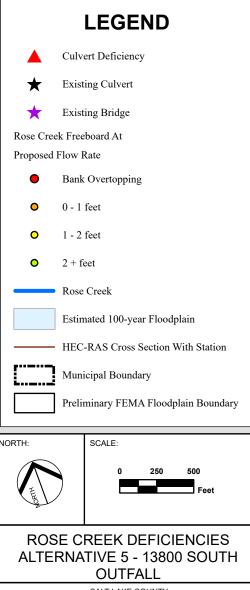
Culvert or Bridge Location	Existing Conditions Flow Rate (cfs)	Build-out Conditions Flow Rate (cfs)	Existing Culvert Size	Estimated Existing Culvert Capacity (cfs)	<b>Recommended New Culvert Size</b>	Notes		
2200 West	535	585	13'X5.5' Box	767				
Itah and Salt Lake Canal Crossing	530	585	8'X5' Box	696				
Bangerter Hwy @ 2700 West	490	575	12'X6' Box	780		Backwater from Bangerter increases flood potential		
13760 South	470	575	6'X5' Box & 42" Diameter	390	12'X6' Box	High Priority. Flooding will impact h		
2700 West (90 Bend)	470	575	10'X6' Box	420	12'X6' Box	High Priority. Flooding will impact h		
3160 West	470	575	10'X4.5' Box	440	13'X6' Box	High Priority. Flooding will impact h		
Foot Bridge @ 3300 W	470	575	Free spanning Foot Bridge			No Restriction		
Utah Lake Distributing Canal	470	575	17'X4.8' Box	663				
J	2200 West tah and Salt Lake Canal Crossing Bangerter Hwy @ 2700 West 13760 South 2700 West (90 Bend) 3160 West Foot Bridge @ 3300 W	2200 West         535           tah and Salt Lake Canal Crossing         530           Bangerter Hwy @ 2700 West         490           13760 South         470           2700 West (90 Bend)         470           3160 West         470           Foot Bridge @ 3300 W         470	2200 West         535         585           tah and Salt Lake Canal Crossing         530         585           Bangerter Hwy @ 2700 West         490         575           13760 South         470         575           2700 West (90 Bend)         470         575           3160 West         470         575           Foot Bridge @ 3300 W         470         575	2200 West         535         585         13'X5.5' Box           tah and Salt Lake Canal Crossing         530         585         8'X5' Box           Bangerter Hwy @ 2700 West         490         575         12'X6' Box           13760 South         470         575         6'X5' Box & 42" Diameter           2700 West (90 Bend)         470         575         10'X6' Box           3160 West         470         575         10'X4.5' Box           Foot Bridge @ 3300 W         470         575         Free spanning Foot Bridge	2200 West         535         585         13'X5.5' Box         767           tah and Salt Lake Canal Crossing         530         585         8'X5' Box         696           Bangerter Hwy @ 2700 West         490         575         12'X6' Box         780           13760 South         470         575         6'X5' Box & 42" Diameter         390           2700 West (90 Bend)         470         575         10'X6' Box         420           3160 West         470         575         10'X4.5' Box         440           Foot Bridge @ 3300 W         470         575         Free spanning Foot Bridge	2200 West         535         585         13'X5.5' Box         767           tah and Salt Lake Canal Crossing         530         585         8'X5' Box         696           Bangerter Hwy @ 2700 West         490         575         12'X6' Box         780           13760 South         470         575         6'X5' Box & 42" Diameter         390         12'X6' Box           2700 West (90 Bend)         470         575         10'X6' Box         420         12'X6' Box           3160 West         470         575         10'X4.5' Box         440         13'X6' Box           Foot Bridge @ 3300 W         470         575         Free spanning Foot Bridge         440         13'K6' Box		

Alternative 5 is the not the recommended alternative. See alternative 3 (Figure 6-3) for the recommended improvements. Cost estimates and channel improvements for alternative 5 are identified on Figure 6-5B.

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#### Index Map





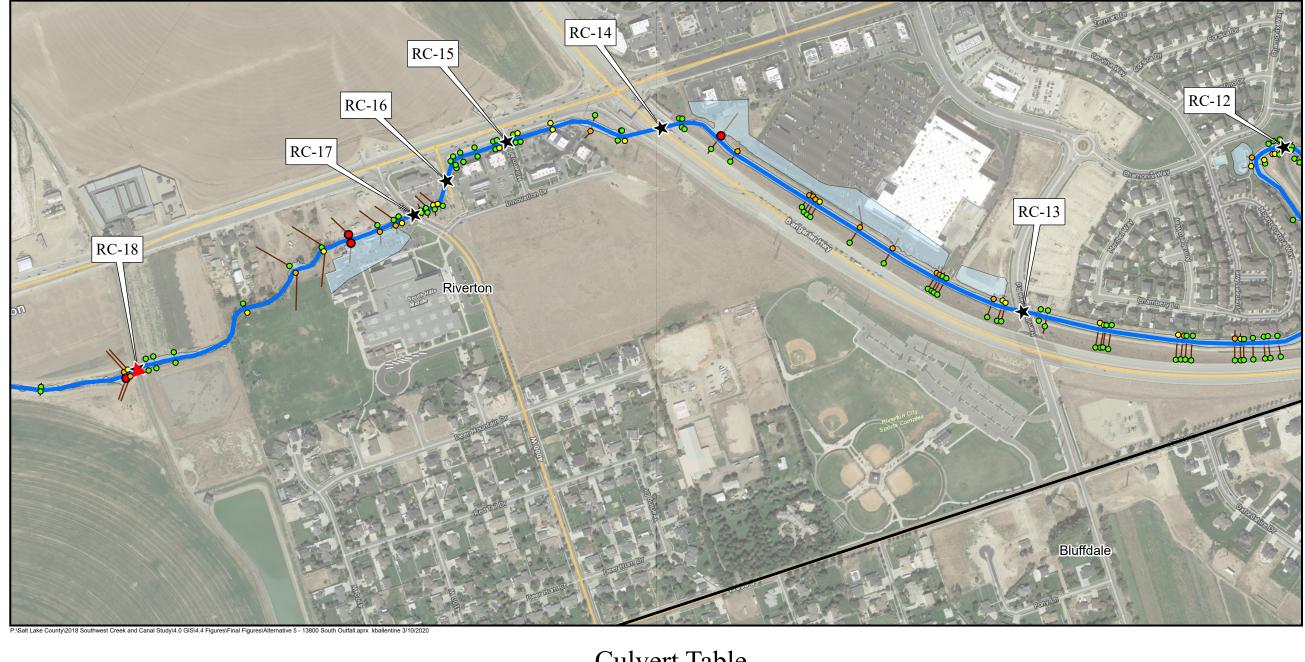
SOUTHWEST CANAL AND CREEK STUDY FIGURE NO.

6-5A

2 of 6

**BOWEN COLLINS** 

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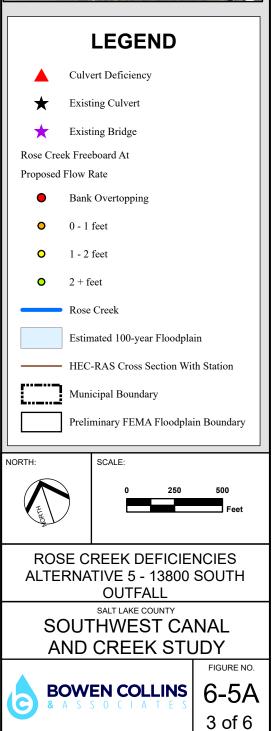


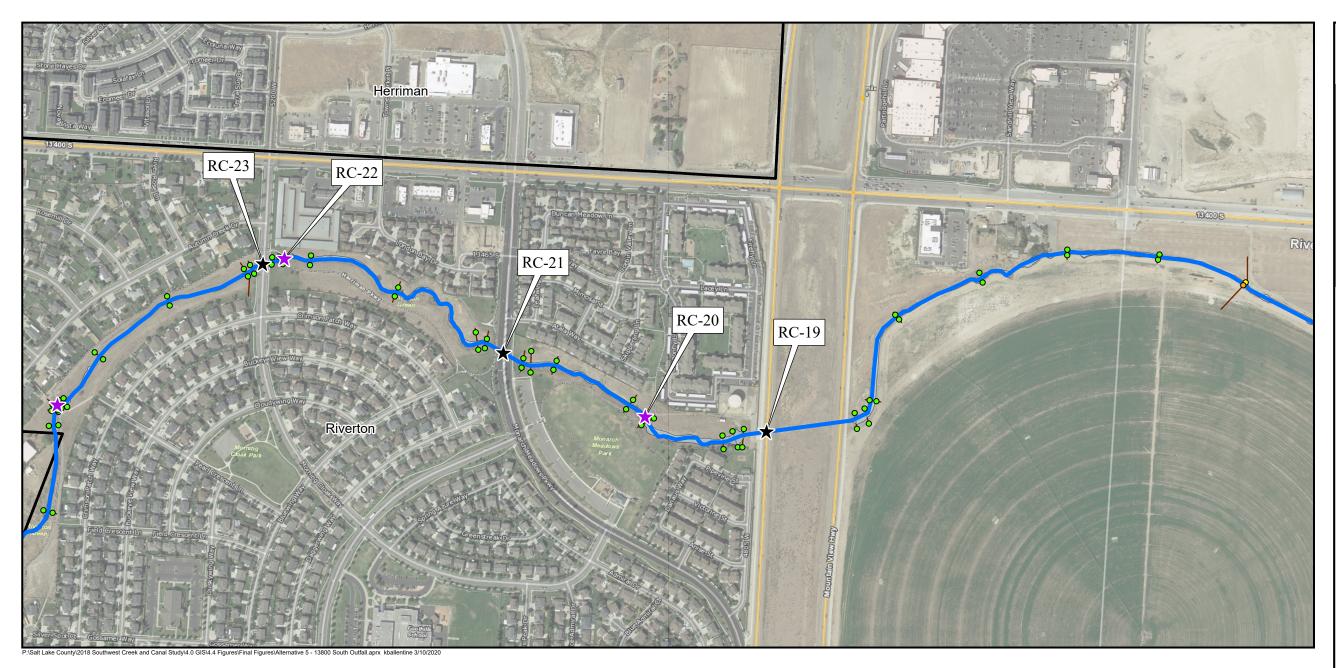
ID	Culvert or Bridge Location	Existing Conditions Flow Rate (cfs)	Build-out Conditions Flow Rate (cfs)	<b>Existing Culvert Size</b>	Estimated Existing Culvert Capacity (cfs)	Recommended New Culvert Size	
RC-12	Utah Lake Distributing Canal	470	575	17'X4.8' Box	663		I
RC-13	3600 West	390	490	13'X5' Box	663		l
RC-14	Bangerter Hwy at 13400 South	390	490	13'X6' Box	572		I
RC-15	Millennial Drive	350	430	15'X4' Box	450		I
RC-16	4050 West	350	430	Parallel 6'X5' Box	516		Ī
RC-17	4000 West	350	430	13'X6' Box	572		Ī
RC-18	Welby Jacob's Canal	350	430	6'X4' Box	276	14'X6' Box	Culvert

Alternative 5 is the not the recommended alternative. See alternative 3 (Figure 6-3) for the recommended improvements. Cost estimates and channel improvements for alternative 5 are identified on Figure 6-5B.

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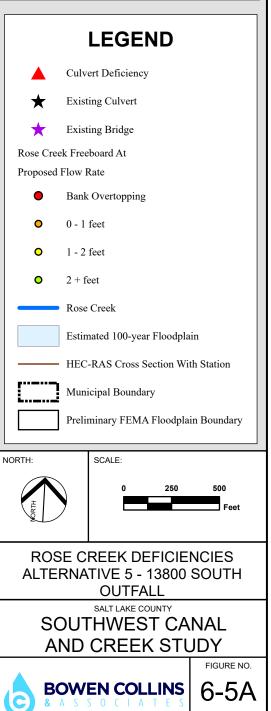


ID	<b>Culvert or Bridge Location</b>	Existing Conditions Flow Rate (cfs)	Build-out Conditions Flow Rate (cfs)	<b>Existing Culvert Size</b>	Estimated Existing Culvert Capacity (cfs)	<b>Recommended New Culvert Size</b>	Notes			
RC-19	MVC	312	312	7' Diameter	600					
RC-20	Foot Bridge @ 4800 W	272	272	Free spanning Foot Bridge			No Restriction			
RC-21	Monarch Meadows Parkway	272	272	Ellipse 12.5'X7'	1500					
RC-22	Foot Bridge @ 5000 W	272	272	Free spanning Foot Bridge			No Restriction			
RC-23	Morning Cloak Way	272	272	6.5' Diameter	370					

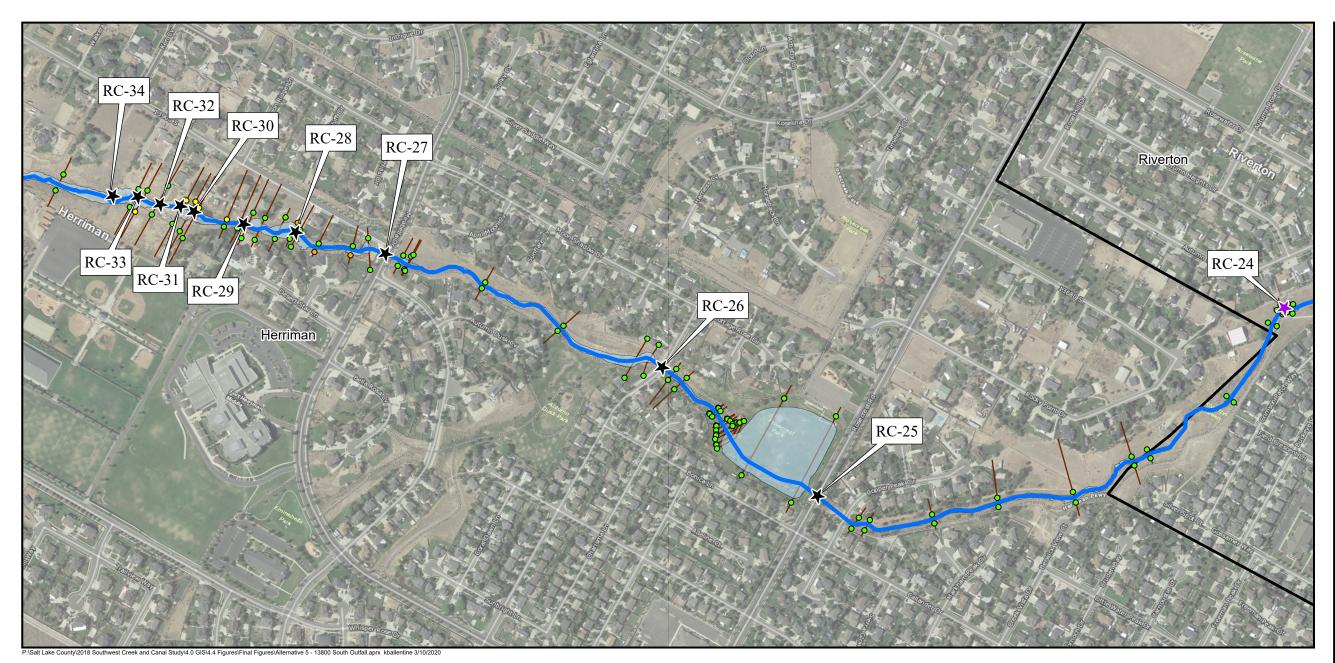
Alternative 5 is the not the recommended alternative. See alternative 3 (Figure 6-3) for the recommended improvements. Cost estimates and channel improvements for alternative 5 are identified on Figure 6-5B.

#### Index Map





4 of 6



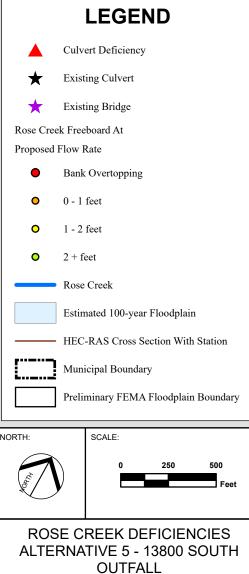
ID	Culvert or Bridge Location	Existing Conditions Flow Rate (cfs)	Build-out Conditions Flow Rate (cfs)	Existing Culvert Size	Estimated Existing Culvert Capacity (cfs)	<b>Recommended New Culvert Size</b>	Notes
RC-24	Foot Bridge @ 5300 W	176	176	Free spanning Foot Bridge			No Restriction
RC-25	Rosecrest Rd.	176	176	42" Diameter	180		
RC-26	Friendship Dr.	323	323	6' Diameter	400		
RC-27	Mirabella Dr.	323	323	Parallel 5' Diameter	400		
RC-28	Private Culvert	262	262	18" Diameter		Remove Culvert	Low Priority. Floodplain doesn't impact
RC-29	6100 West	262	262	5'X6' Box	340		
RC-30 through 34	Five (5) Private Culverts	262	262	> 2' Diameter		Remove Culverts	Low Priority. Floodplain doesn't impact

Alternative 5 is the not the recommended alternative. See alternative 3 (Figure 6-3) for the recommended improvements. Cost estimates and channel improvements for alternative 5 are identified on Figure 6-5B.

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#### Index Map



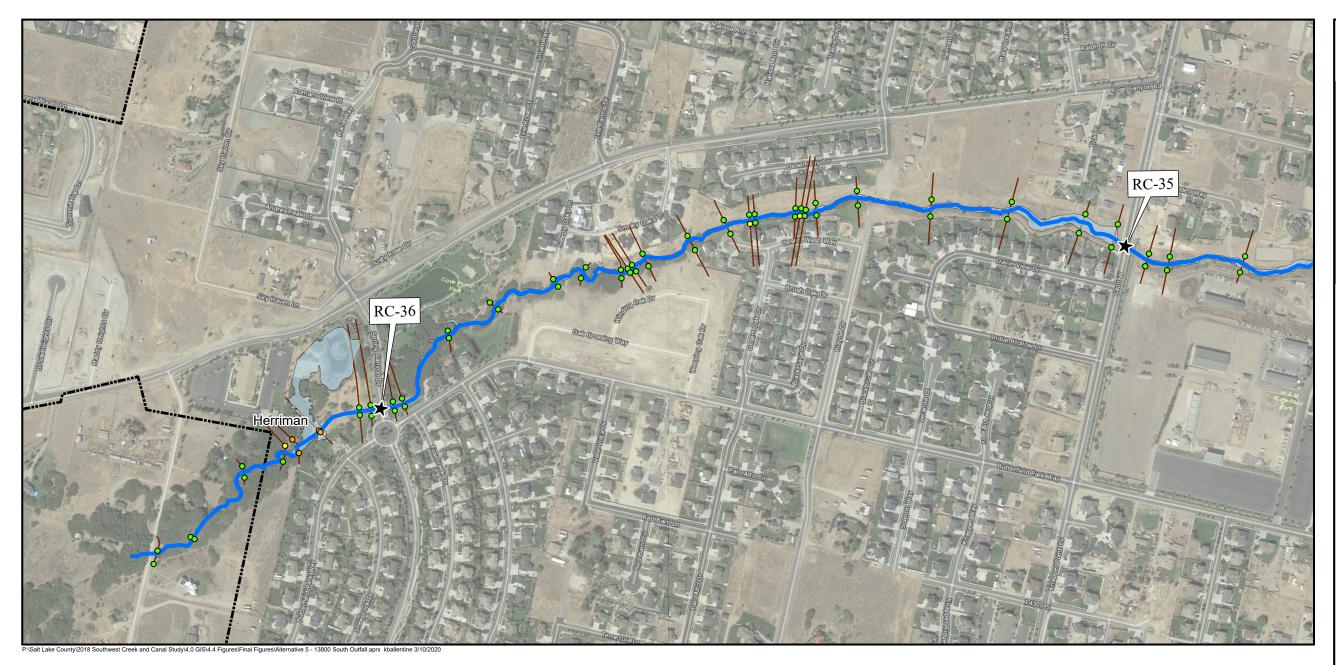


SOUTHALL SALT LAKE COUNTY SOUTHWEST CANAL AND CREEK STUDY FIGURE NO.

6-5A

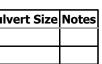
5 of 6

**BOWEN COLLINS** 



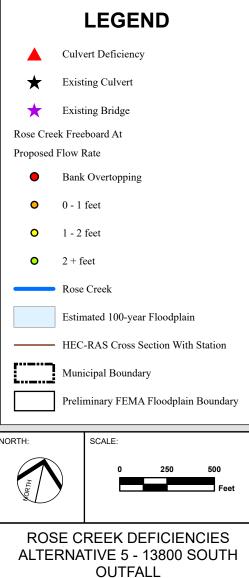
ID	Culvert or Bridge Location	Existing Conditions Flow Rate (cfs)	Build-out Conditions Flow Rate (cfs)	Existing Culvert Size	Estimated Existing Culvert Capacity (cfs)	Recommended New Culv	
RC-3	5 6400 West	262	262	6' Diameter	310		
RC-3	6 Spring Canyon Drive	73	73	6'X4' Box	132		

Alternative 5 is the not the recommended alternative. See alternative 3 (Figure 6-3) for the recommended improvements. Cost estimates and channel improvements for alternative 5 are identified on Figure 6-5B.



## Index Map



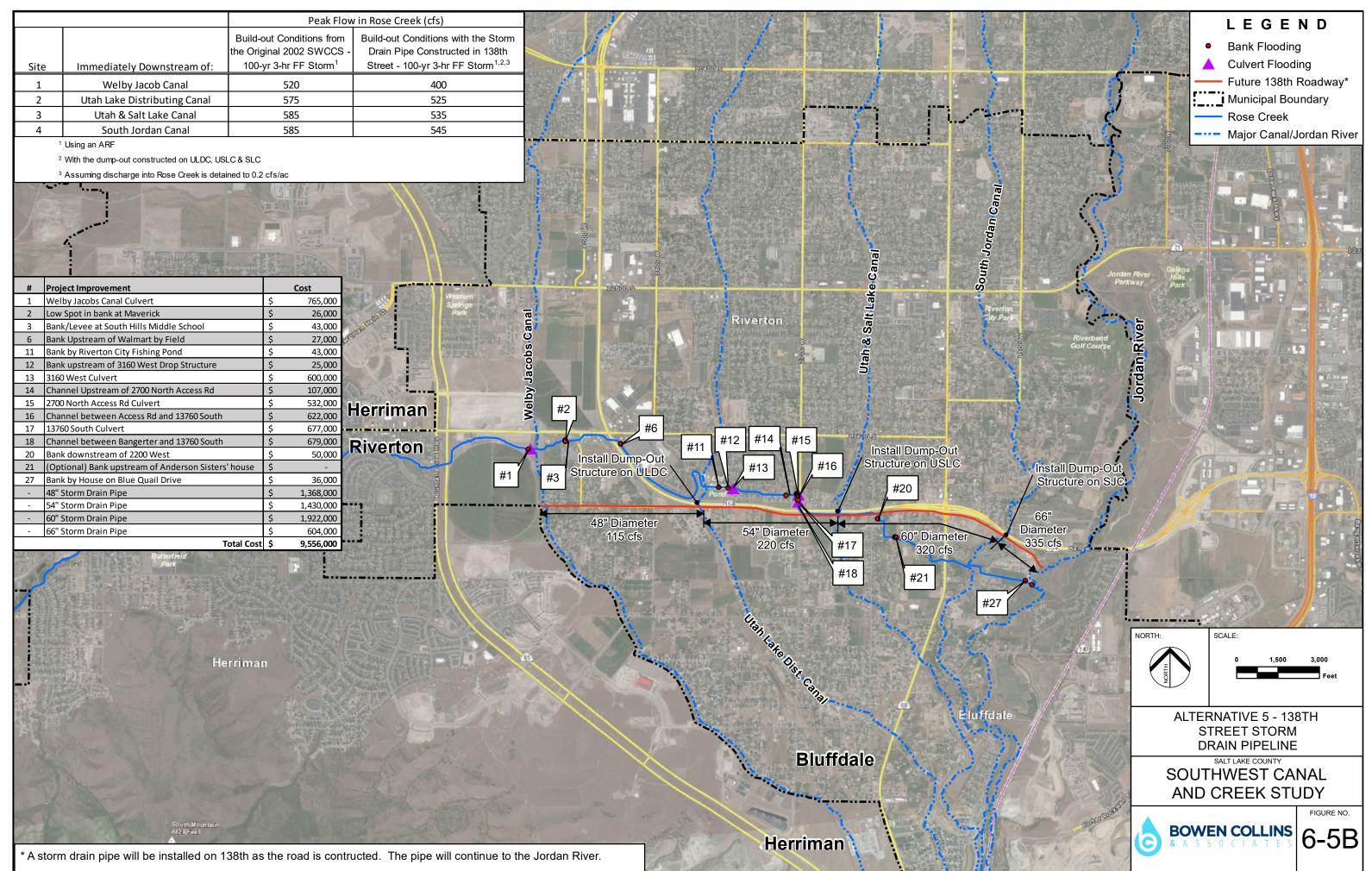


SOUTHALL SALT LAKE COUNTY SOUTHWEST CANAL AND CREEK STUDY FIGURE NO.

6-5A

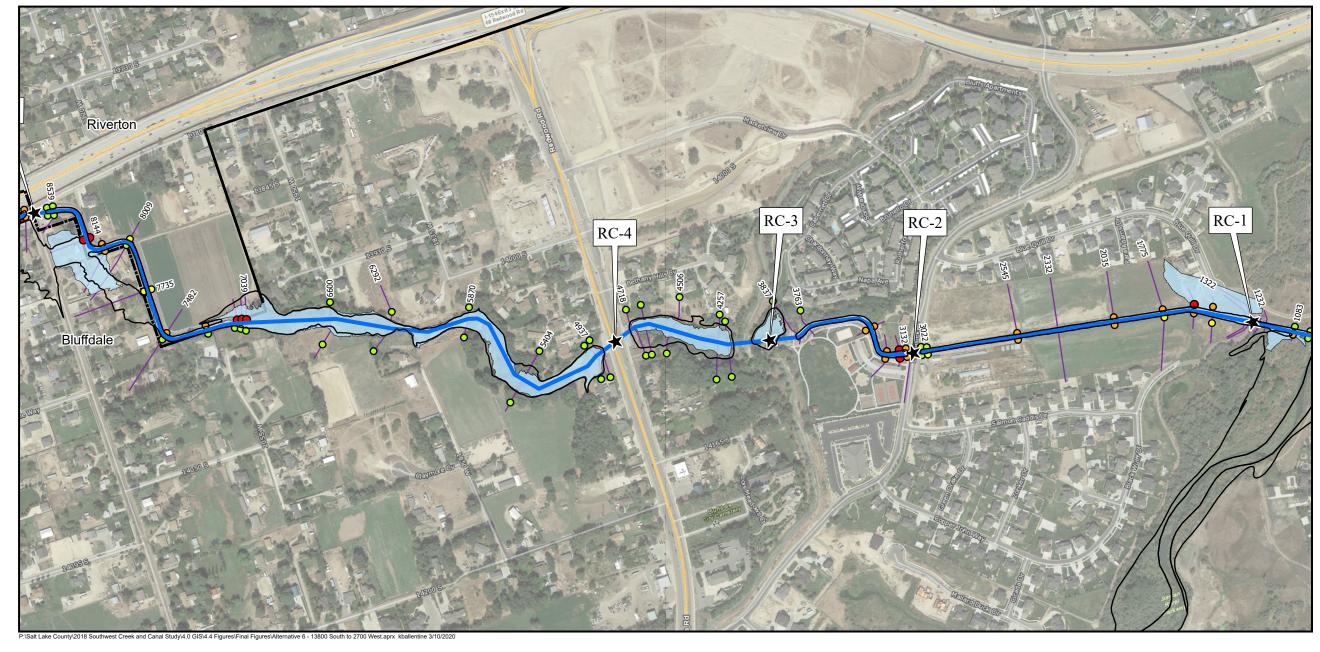
6 of 6

**BOWEN COLLINS** 



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Section 1: Rose Creek

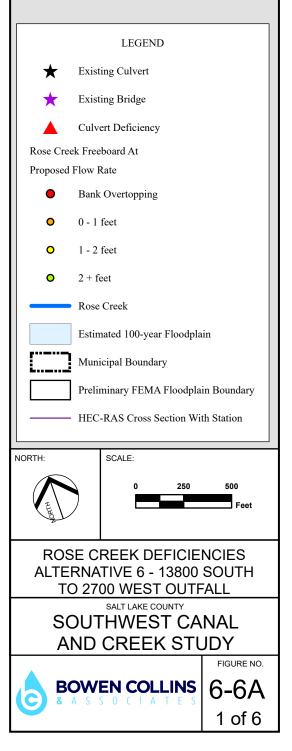


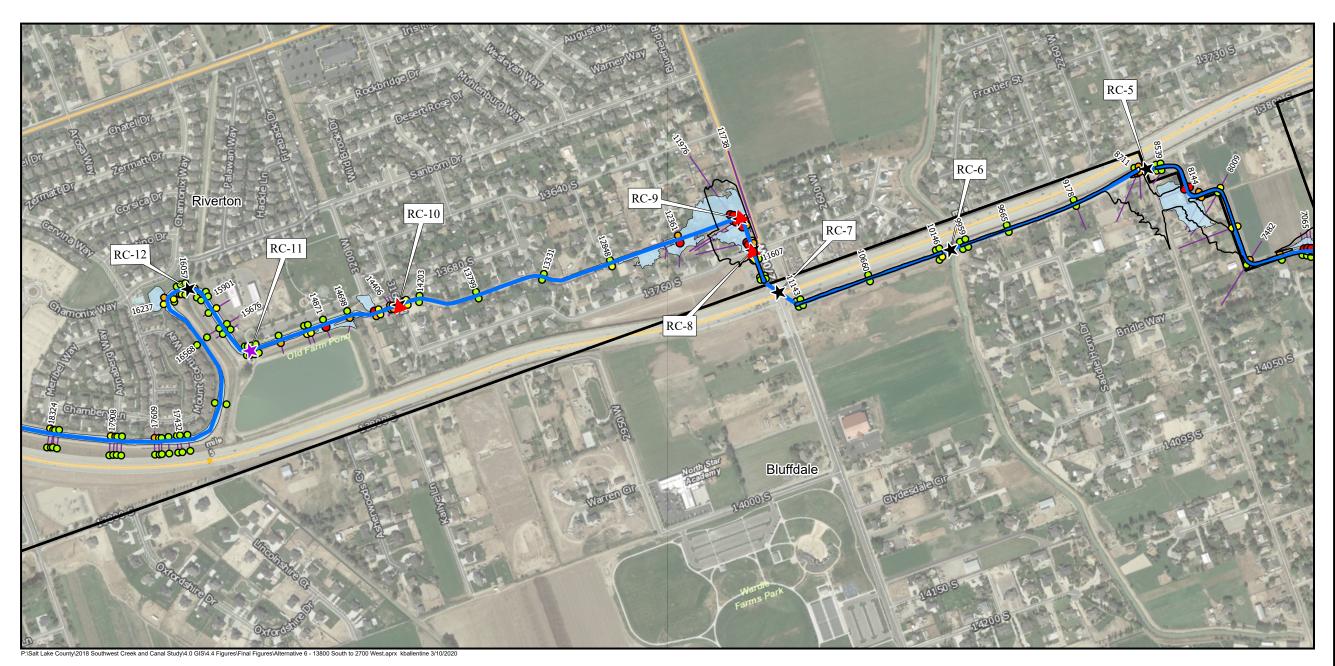
ID	Culvert or Bridge Location	Existing Conditions Flow Rate (cfs)	Build-out Conditions Flow Rate (cfs)	Existing Culvert Size	Estimated Existing Culvert Capacity (cfs)	Recommended New Culvert Size	Notes
RC-	1 Blue Quill Drive	560	710	10'X6' Box	690		
RC-2	2 1300 West	560	710	10'X6' Box	550	15'X6' Box	Low Priority. Floodplain doesn't impact i
RC-3	3 South Jordan Canal Crossing	560	710	10'X4' Box	720		
RC-4	4 Redwood Road	540	690	10'X6' Box	830		

Alternative 6 is the not the recommended alternative. See alternative 3 (Figure 6-3) for the recommended improvements. Cost estimates and channel improvements for alternative 6 are identified on Figure 6-6B.

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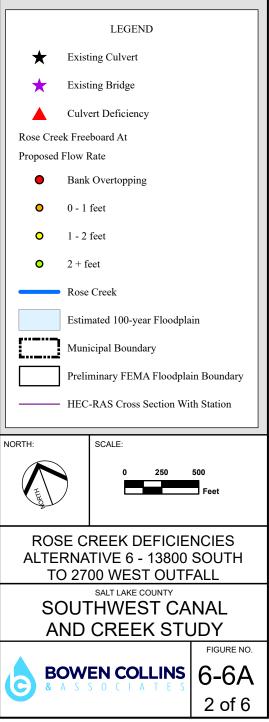


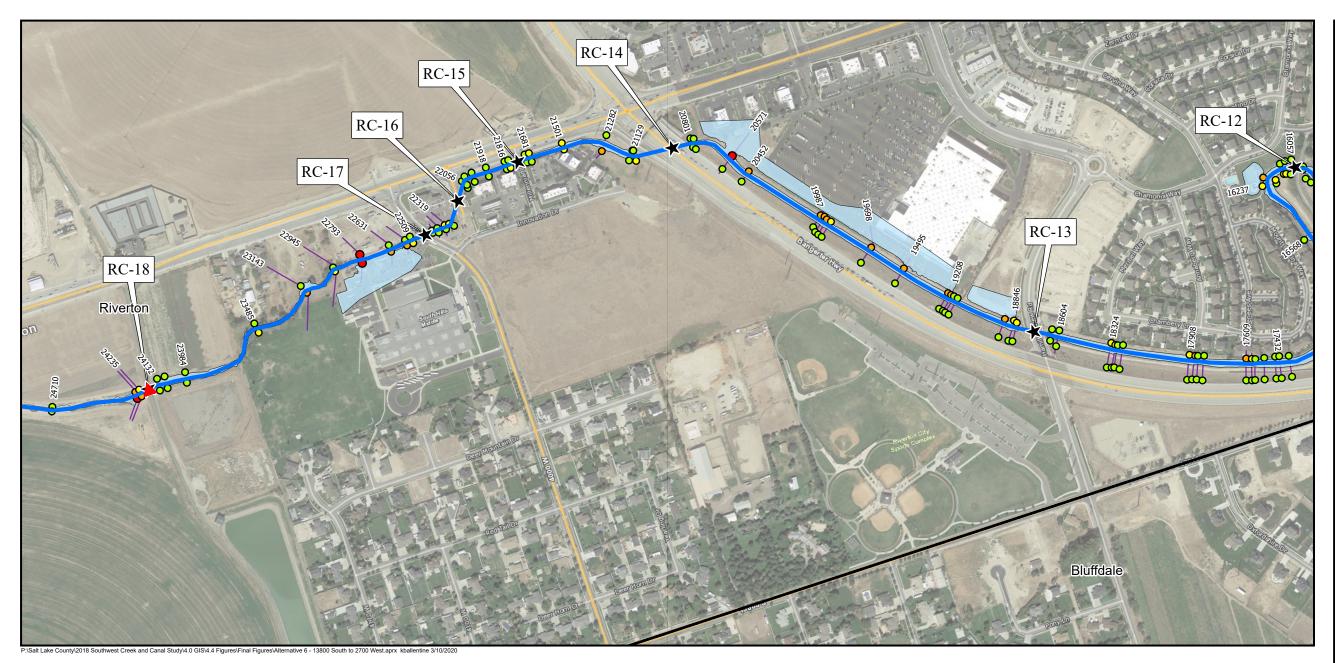
ID	Culvert or Bridge Location	Existing Conditions Flow Rate (cfs)	Build-out Conditions Flow Rate (cfs)	Existing Culvert Size	Estimated Existing Culvert Capacity (cfs)	<b>Recommended New Culvert Size</b>	Notes
RC-5	2200 West	535	690	13'X5.5' Box	767		
RC-6	Utah and Salt Lake Canal Crossing	530	690	8'X5' Box	696		
RC-7	Bangerter Hwy @ 2700 West	490	650	12'X6' Box	780		Backwater from Bangerter increases flood potential
RC-8	13760 South	470	650	6'X5' Box & 42" Diameter	390	12'X6' Box	High Priority. Flooding will impact h
RC-9	2700 West (90 Bend)	470	650	10'X6' Box	420	12'X6' Box	High Priority. Flooding will impact l
RC-10	3160 West	470	650	10'X4.5' Box	440	13'X6' Box	High Priority. Flooding will impact h
RC-11	Foot Bridge @ 3300 W	470	650	Free spanning Foot Bridge			No Restriction
RC-12	Utah Lake Distributing Canal	470	650	17'X4.8' Box	663		

Alternative 6 is the not the recommended alternative. See alternative 3 (Figure 6-3) for the recommended improvements. Cost estimates and channel improvements for alternative 6 are identified on Figure 6-6B.

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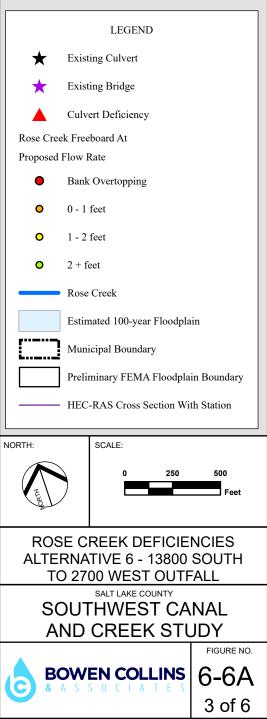


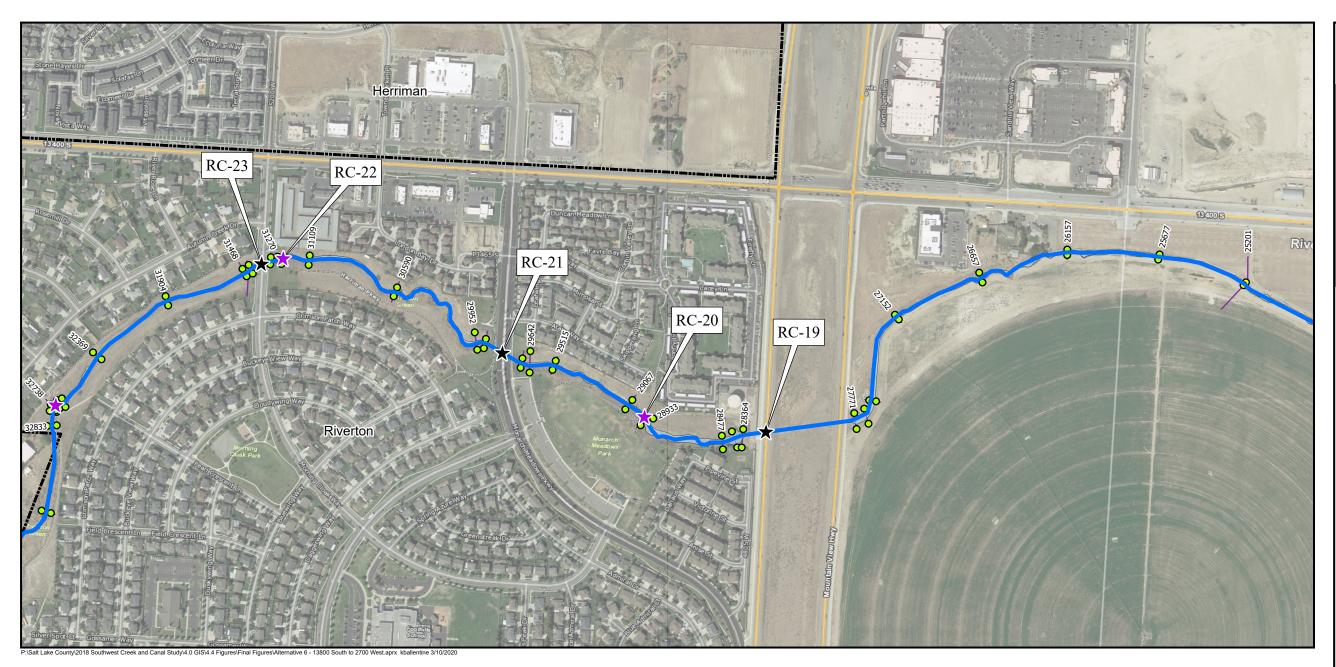


ID	<b>Culvert or Bridge Location</b>	Existing Conditions Flow Rate (cfs)	Build-out Conditions Flow Rate (cfs)	<b>Existing Culvert Size</b>	Estimated Existing Culvert Capacity (cfs)	Recommended New Culvert Size N	Notes
RC-12	Utah Lake Distributing Canal	470	650	17'X4.8' Box	663		
RC-13	3600 West	390	490	13'X5' Box	663		
RC-14	Bangerter Hwy at 13400 South	390	490	13'X6' Box	572		
RC-15	Millennial Drive	350	430	15'X4' Box	450		
RC-16	4050 West	350	430	Parallel 6'X5' Box	516		
RC-17	4000 West	350	430	13'X6' Box	572		
RC-18	Welby Jacob's Canal	350	430	6'X4' Box	276	14'X6' Box	

Alternative 6 is the not the recommended alternative. See alternative 3 (Figure 6-3) for the recommended improvements. Cost estimates and channel improvements for alternative 6 are identified on Figure 6-6B.



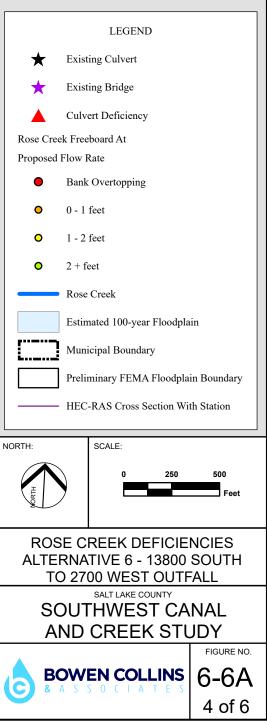


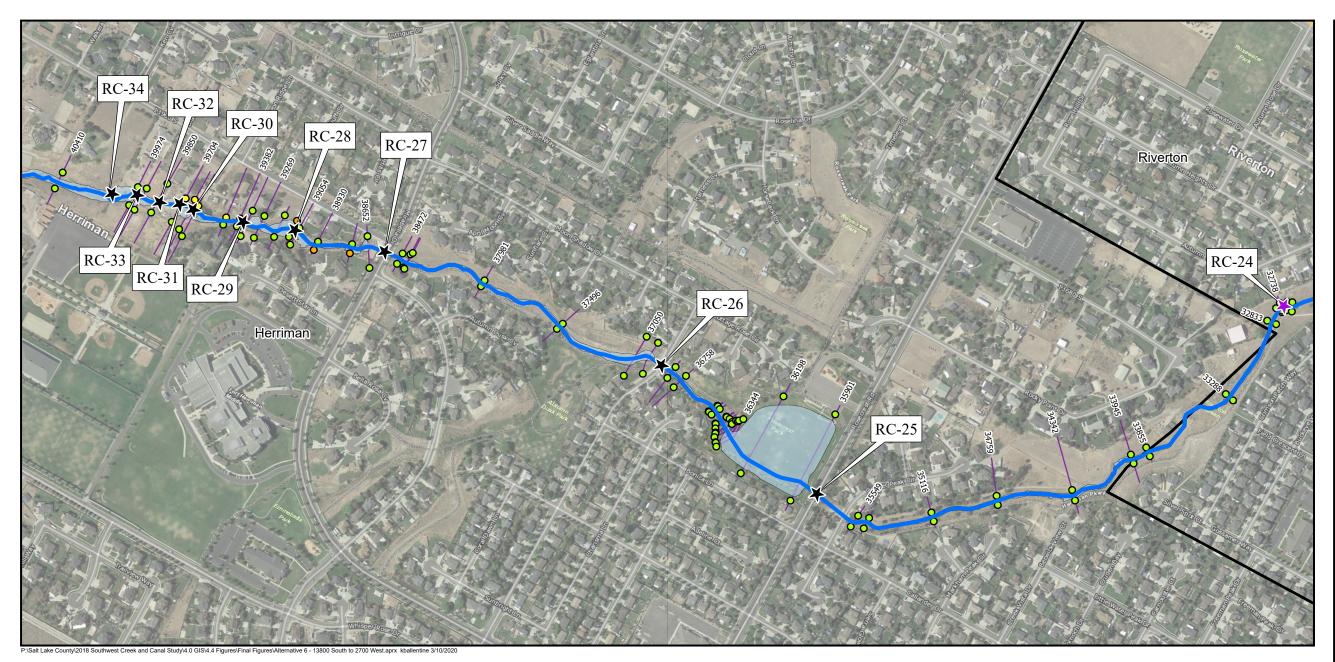


ID	<b>Culvert or Bridge Location</b>	Existing Conditions Flow Rate (cfs)	Build-out Conditions Flow Rate (cfs)	<b>Existing Culvert Size</b>	Estimated Existing Culvert Capacity (cfs)	<b>Recommended New Culvert Size</b>	Notes
RC-19	MVC	312	312	7' Diameter	600		
RC-20	Foot Bridge @ 4800 W	272	272	Free spanning Foot Bridge			No Restriction
RC-21	Monarch Meadows Parkway	272	272	Ellipse 12.5'X7'	1500		
RC-22	Foot Bridge @ 5000 W	272	272	Free spanning Foot Bridge			No Restriction
RC-23	Morning Cloak Way	272	272	6.5' Diameter	370		

Alternative 6 is the not the recommended alternative. See alternative 3 (Figure 6-3) for the recommended improvements. Cost estimates and channel improvements for alternative 6 are identified on Figure 6-6B.





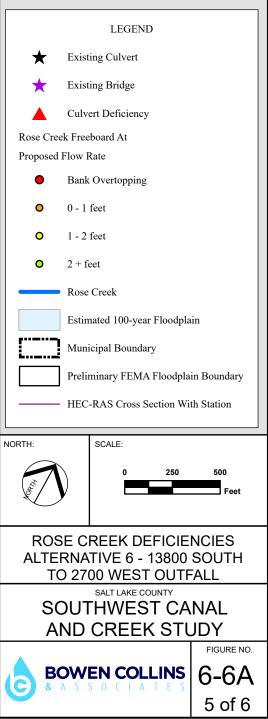


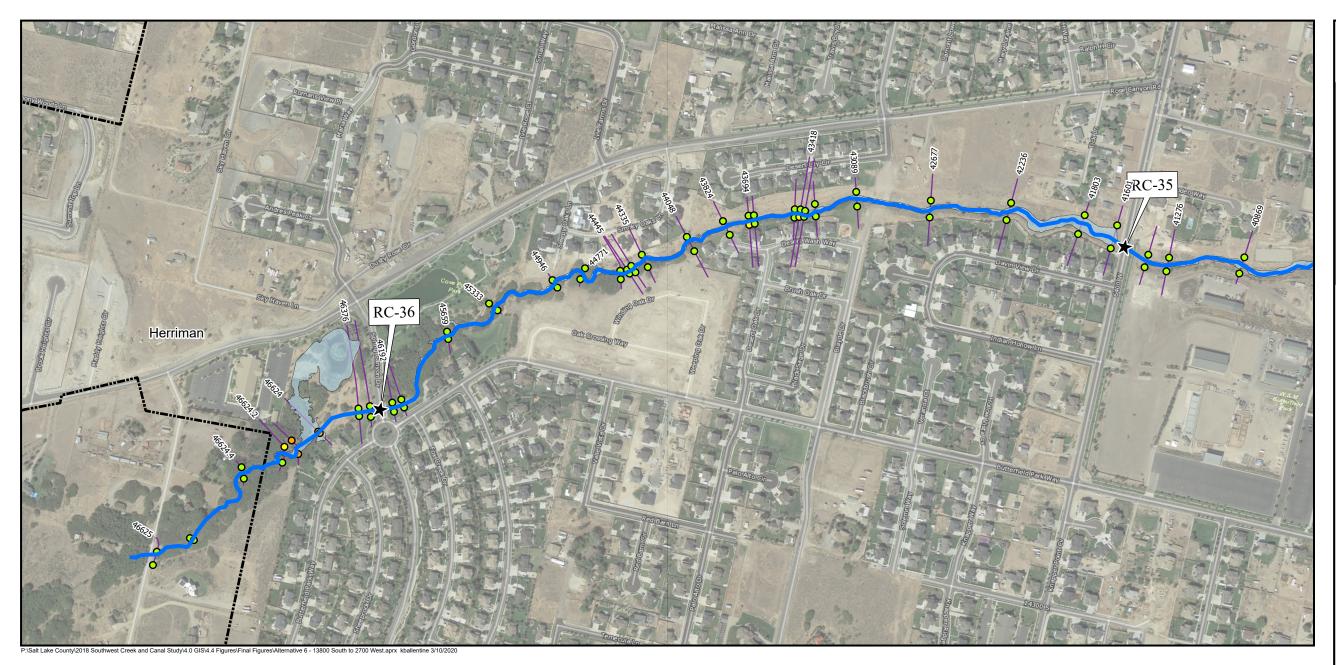
ID	Culvert or Bridge Location	Existing Conditions Flow Rate (cfs)	Build-out Conditions Flow Rate (cfs)	Existing Culvert Size	Estimated Existing Culvert Capacity (cfs)	<b>Recommended New Culvert Size</b>	Notes
RC-24	Foot Bridge @ 5300 W	176	176	Free spanning Foot Bridge			No Restriction
RC-25	Rosecrest Rd.	176	176	42" Diameter	180		
RC-26	Friendship Dr.	323	323	6' Diameter	400		
RC-27	Mirabella Dr.	323	323	Parallel 5' Diameter	400		
RC-28	Private Culvert	262	262	18" Diameter		Remove Culvert	Low Priority. Floodplain doesn't impac
RC-29	6100 West	262	262	5'X6' Box	340		
RC-30 through 34	Five (5) Private Culverts	262	262	> 2' Diameter		Remove Culverts	Low Priority. Floodplain doesn't impac

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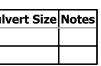




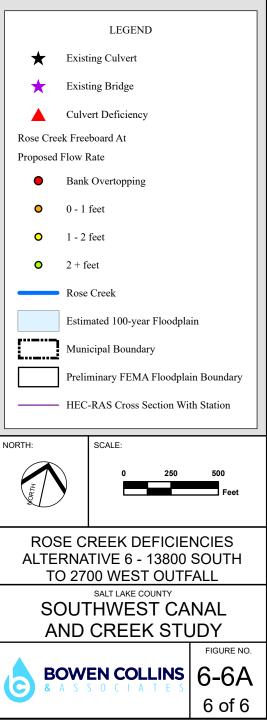


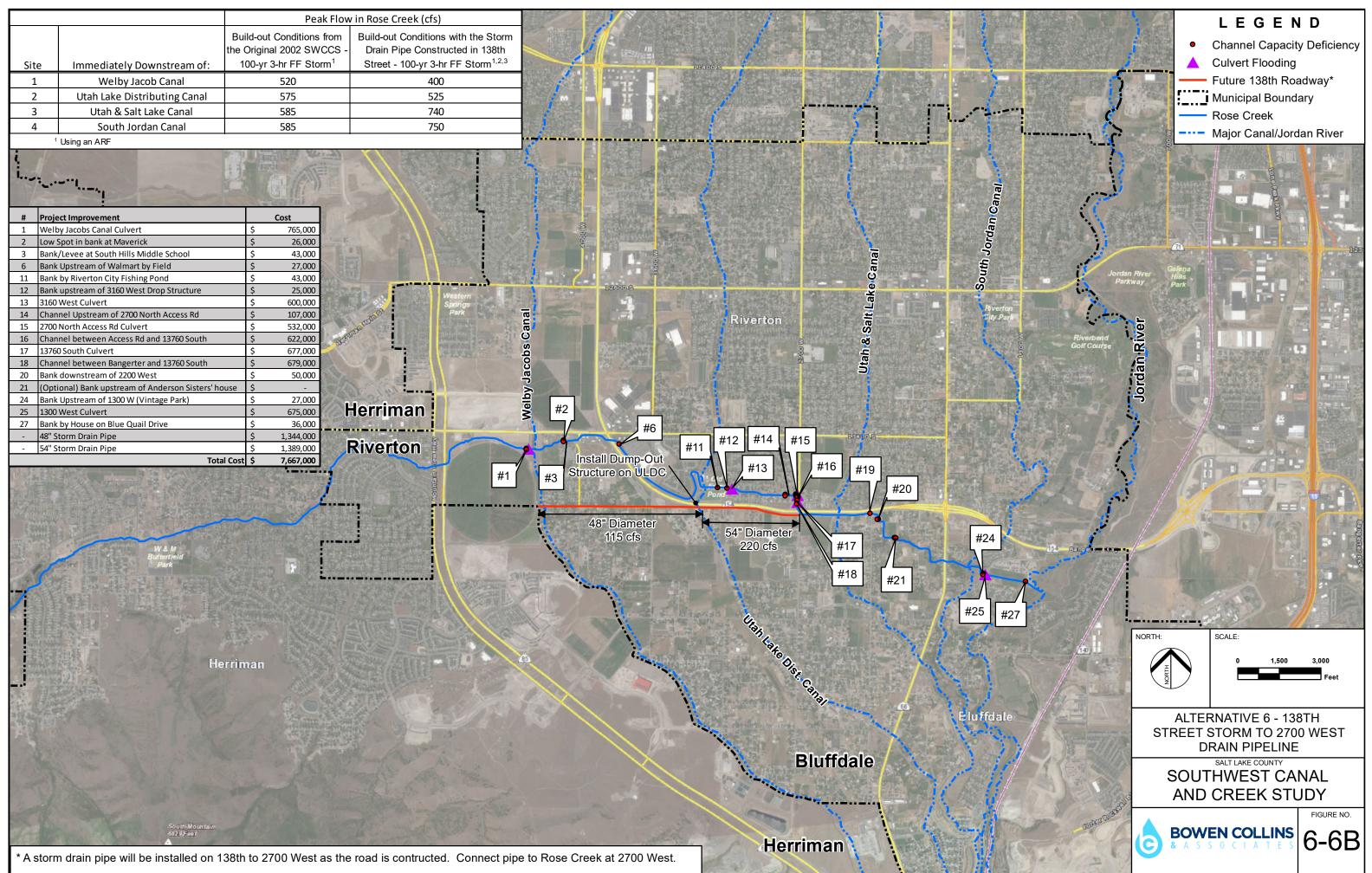
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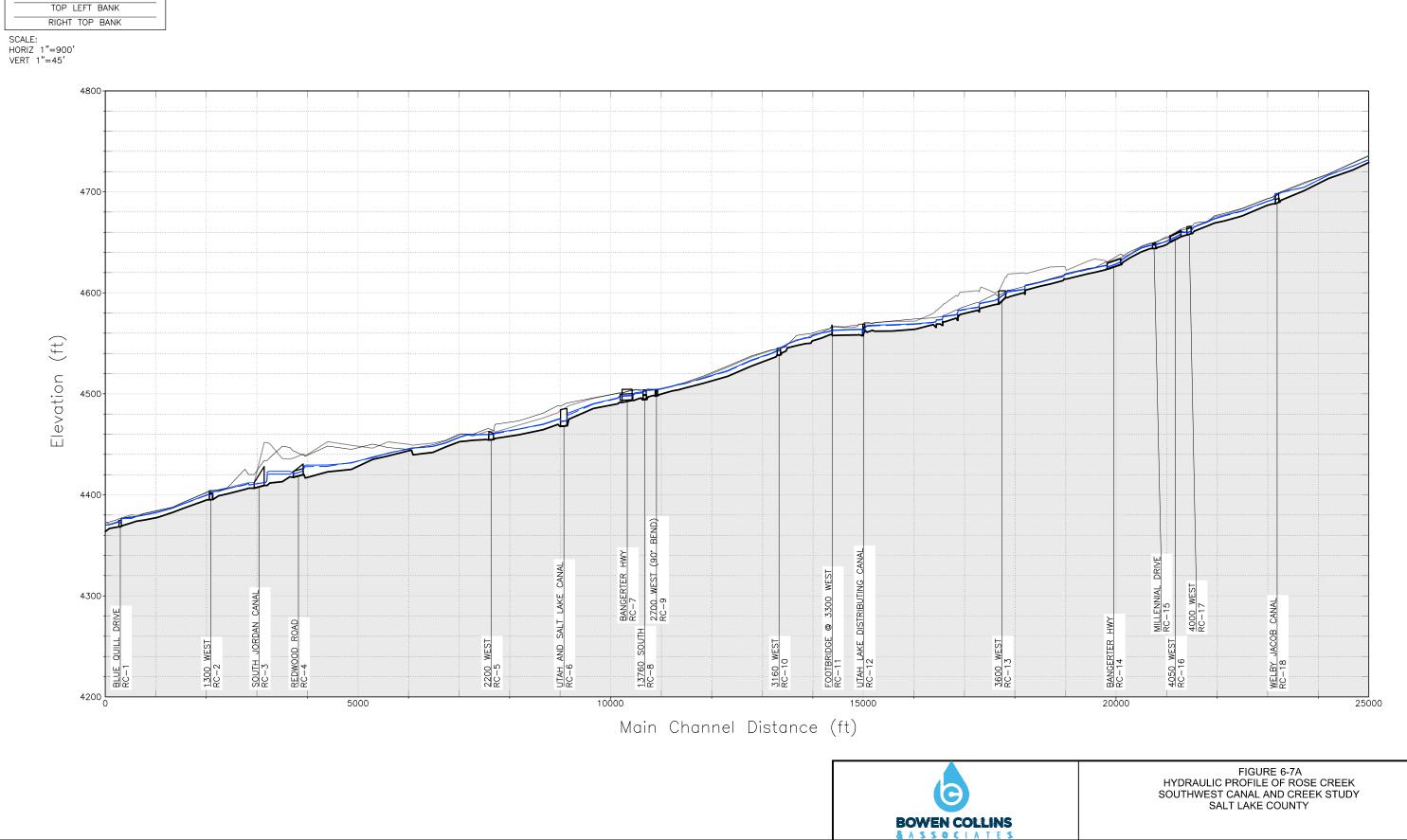






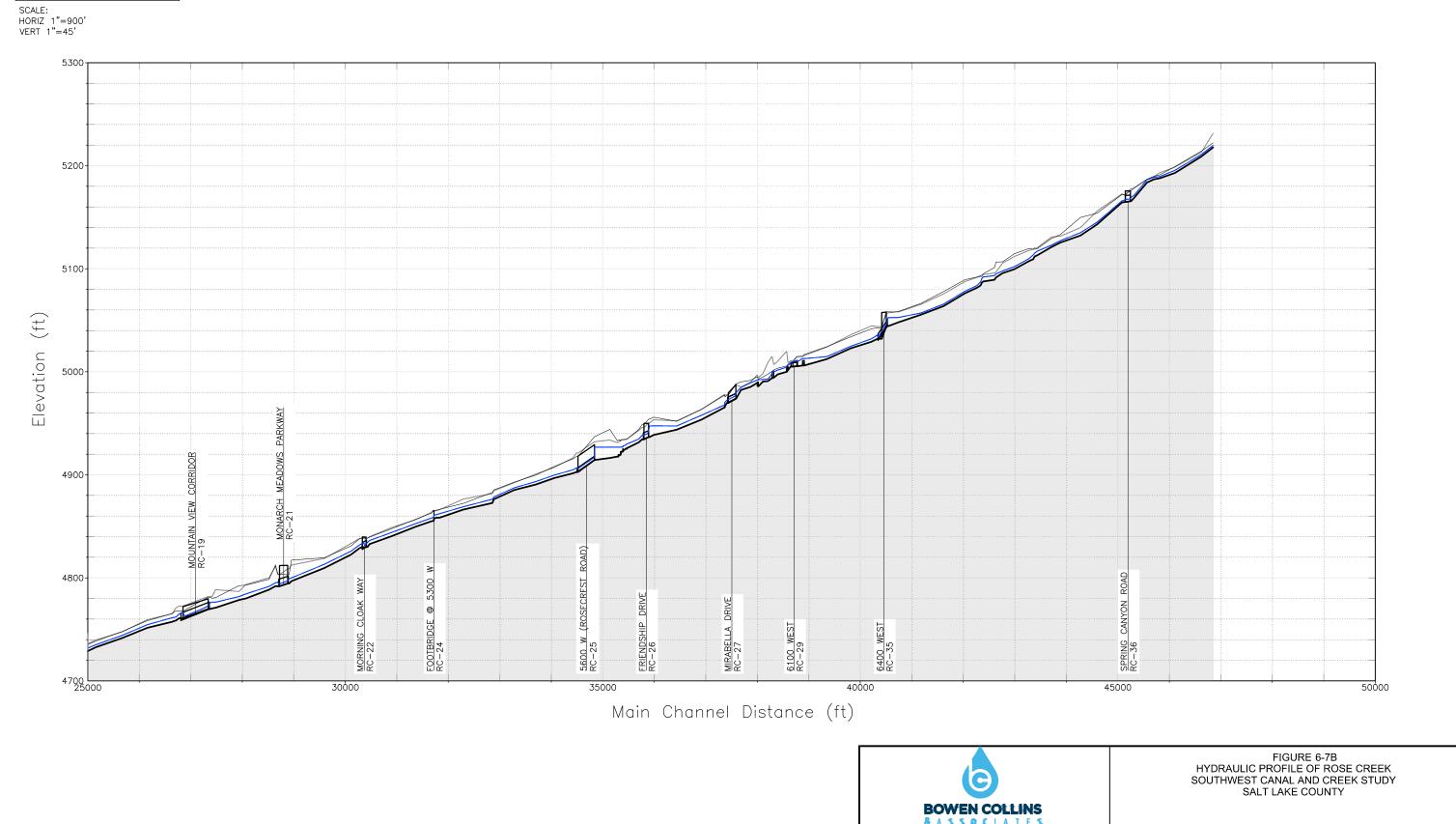


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Legend EXISTING WATER SURFACE FUTURE WATER SURFACE CHANNEL BOTTOM



P:\Salt Lake County\2018 Southwest Creek and Canal Study\7.0 Profile Figure\4831801\_F-01.dwg Plotted: 3/12/2020 8:00 AM By: Meghan Washburn

Legend EXISTING WATER SURFACE FUTURE WATER SURFACE CHANNEL BOTTOM TOP LEFT BANK RIGHT TOP BANK



Section 1: Rose Creek