VOLUME 3 - APPENDICES

SOUTHWEST CANAL AND CREEK STUDY

PHASE 2 - MIDAS CREEK

Prepared for:

SALT LAKE COUNTY

September 2021

Prepared by:

BOWEN COLLINS & ASSOCIATES

VOLUME III
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APPENDIX A

PHOTO LOG

Note: Looking upstream

BOWEN COLLINS & ASSOCIATES

Confluence of Midas and Butterfield Creeks

Salt Lake County Flood Control

Butterfield Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 1

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_ButterfieldCreek_Photos.aprx coppliger 11/18/2020

Note: Herriman Main Street culvert downstream face

BOWEN COLLINS & ASSOCIATES

Herriman Main Street

Salt Lake County Flood Control

Butterfield Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 2

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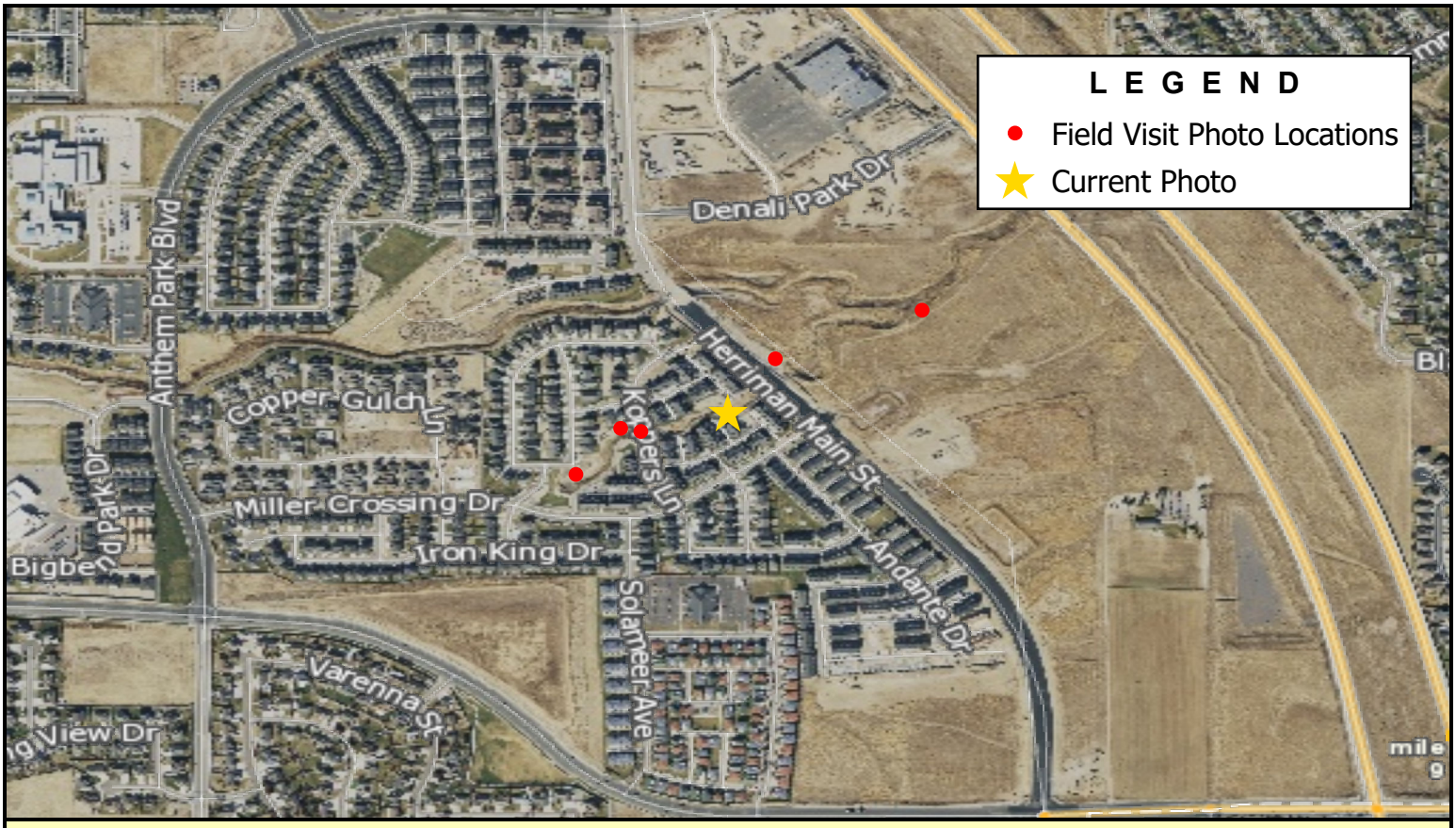

Note: Herriman Main Street culvert upstream face

BOWEN COLLINS & ASSOCIATES

Herriman Main Street

Salt Lake County Flood Control

Butterfield Creek SWCC Study

NORTH:

NORTH

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 3

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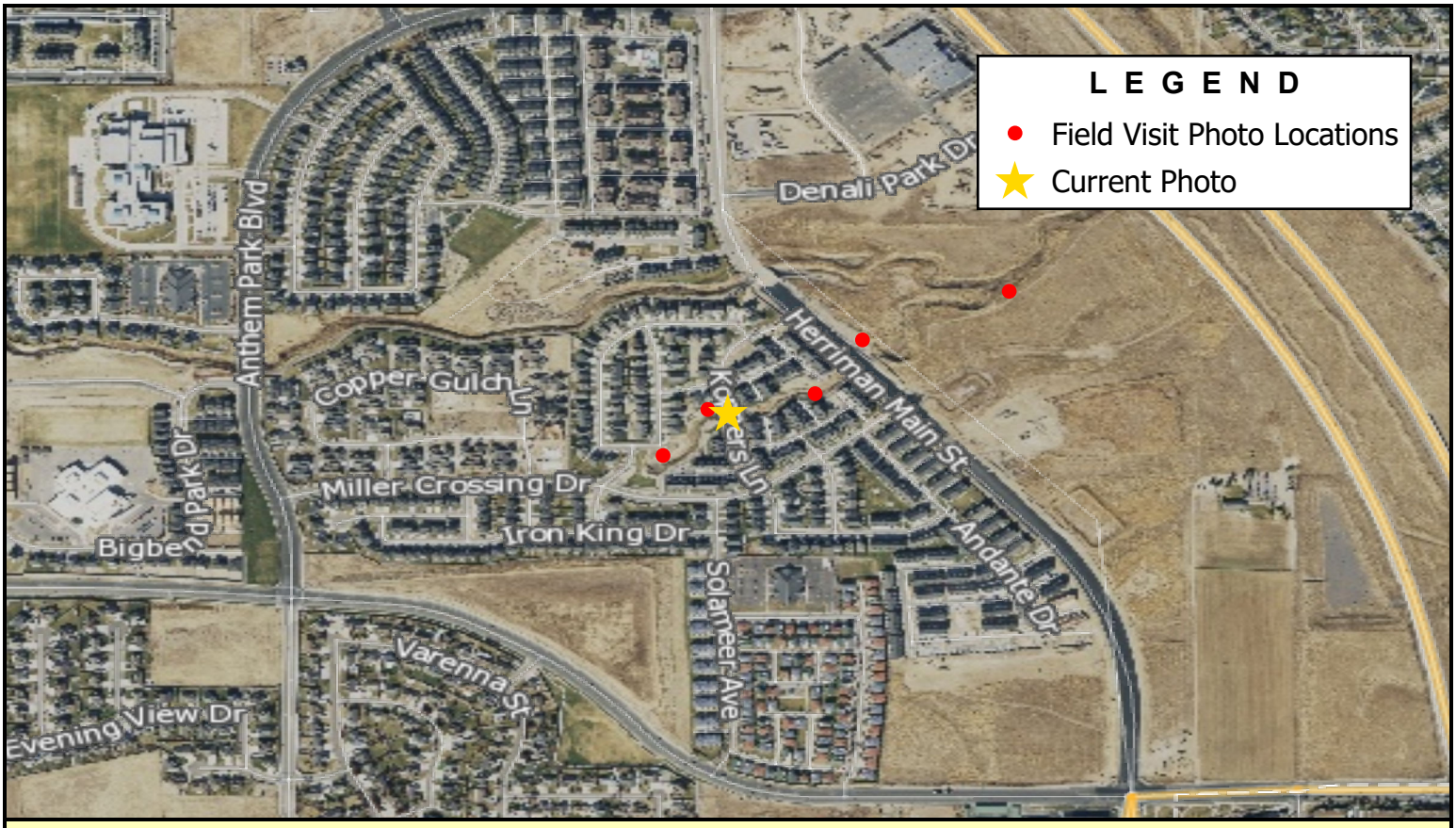

Note: Looking downstream from S Koppers Lane culvert

BOWEN COLLINS & ASSOCIATES

Butterfield Creek

Salt Lake County Flood Control

Butterfield Creek SWCC Study

NORTH:

NORTH

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 4

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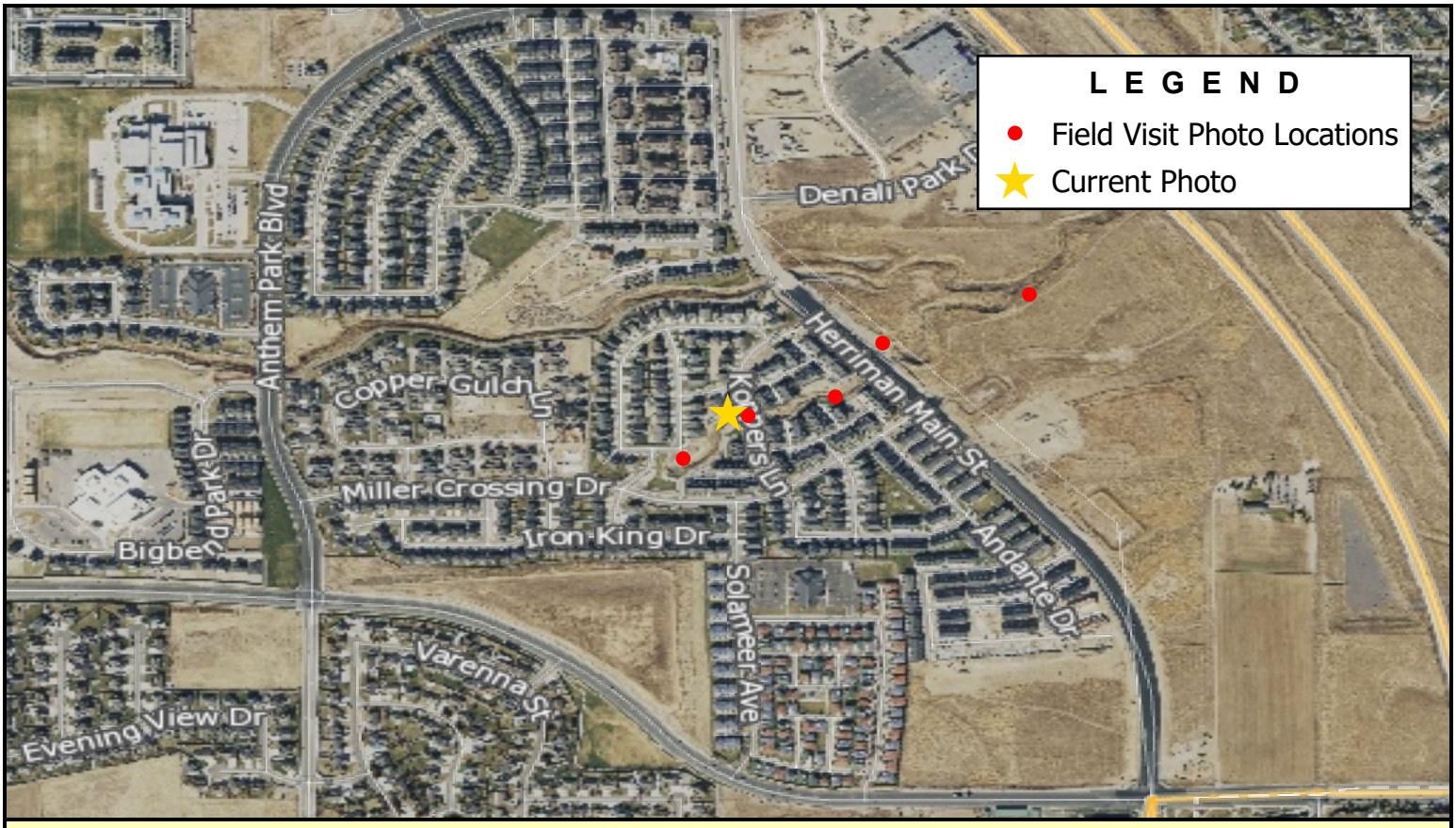

Note: Upstream face

BOWEN COLLINS & ASSOCIATES

S Koppers Lane culvert

Salt Lake County Flood Control

Butterfield Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 5

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_ButterfieldCreek_Photos.aprx coppliger 11/18/2020

Note: Looking upstream from long buried culvert upstream end

BOWEN COLLINS & ASSOCIATES

Butterfield Creek

Salt Lake County Flood Control

Butterfield Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 6

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Note: Upstream end

BOWEN COLLINS & ASSOCIATES	Long buried creek culvert, Salt Lake County Flood Control Butterfield Creek SWCC Study	NORTH: NORTH	SCALE: 0 500 1,000 Feet PHOTOGRAPH NO. 7

Note: Downstream end

BOWEN COLLINS & ASSOCIATES	Long buried creek culvert	NORTH: NORTH	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Butterfield Creek SWCC Study		PHOTOGRAPH NO. 8

Note: Discharge/overflow structure to Midas Creek from SJC

BOWEN COLLINS & ASSOCIATES

South Jordan Canal

Salt Lake County Flood Control

Midas Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 1

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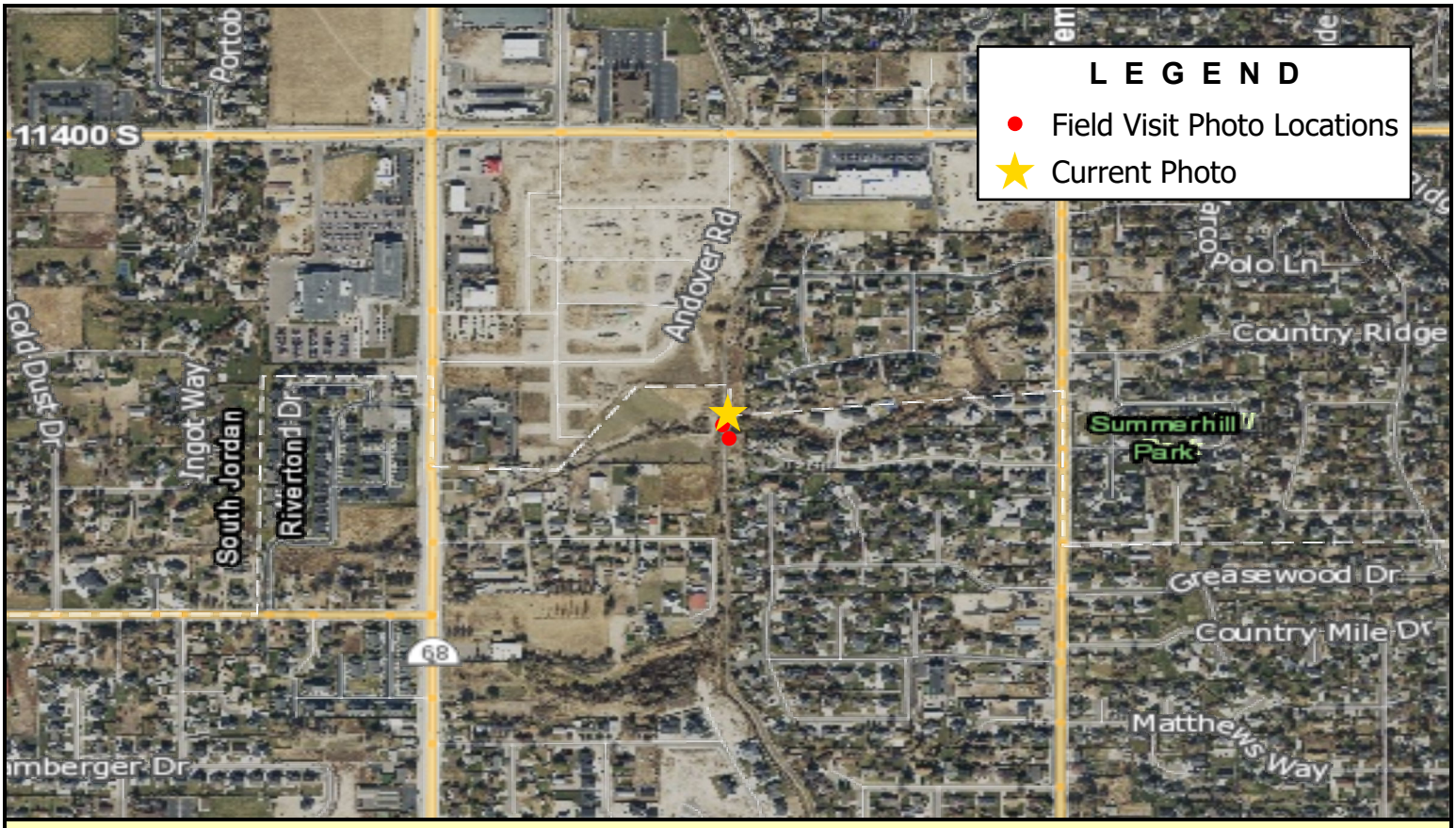

Note: Discharge/overflow structure looking upstream along SJC

BOWEN COLLINS & ASSOCIATES

South Jordan Canal

Salt Lake County Flood Control

Midas Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 2

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Note: Discharge/overflow structure looking downstream along SJC

BOWEN COLLINS & ASSOCIATES

South Jordan Canal

Salt Lake County Flood Control

Midas Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 3

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Note: Discharge/overflow structure looking downstream along USLC

BOWEN COLLINS & ASSOCIATES

Utah & Salt Lake Canal

Salt Lake County Flood Control

Midas Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 4

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_MidasCreek_Photos.aprx coppliger 11/16/2020

Note: Discharge/overflow structure looking upstream along USLC

BOWEN COLLINS & ASSOCIATES

Utah & Salt Lake Canal

Salt Lake County Flood Control

Midas Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 5

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_MidasCreek_Photos.aprx coppliger 11/16/2020

Note: Discharge/overflow structure to Midas Creek from USLC

BOWEN COLLINS & ASSOCIATES

Utah & Salt Lake Canal

Salt Lake County Flood Control

Midas Creek SWCC Study

NORTH:

NORTH

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 6

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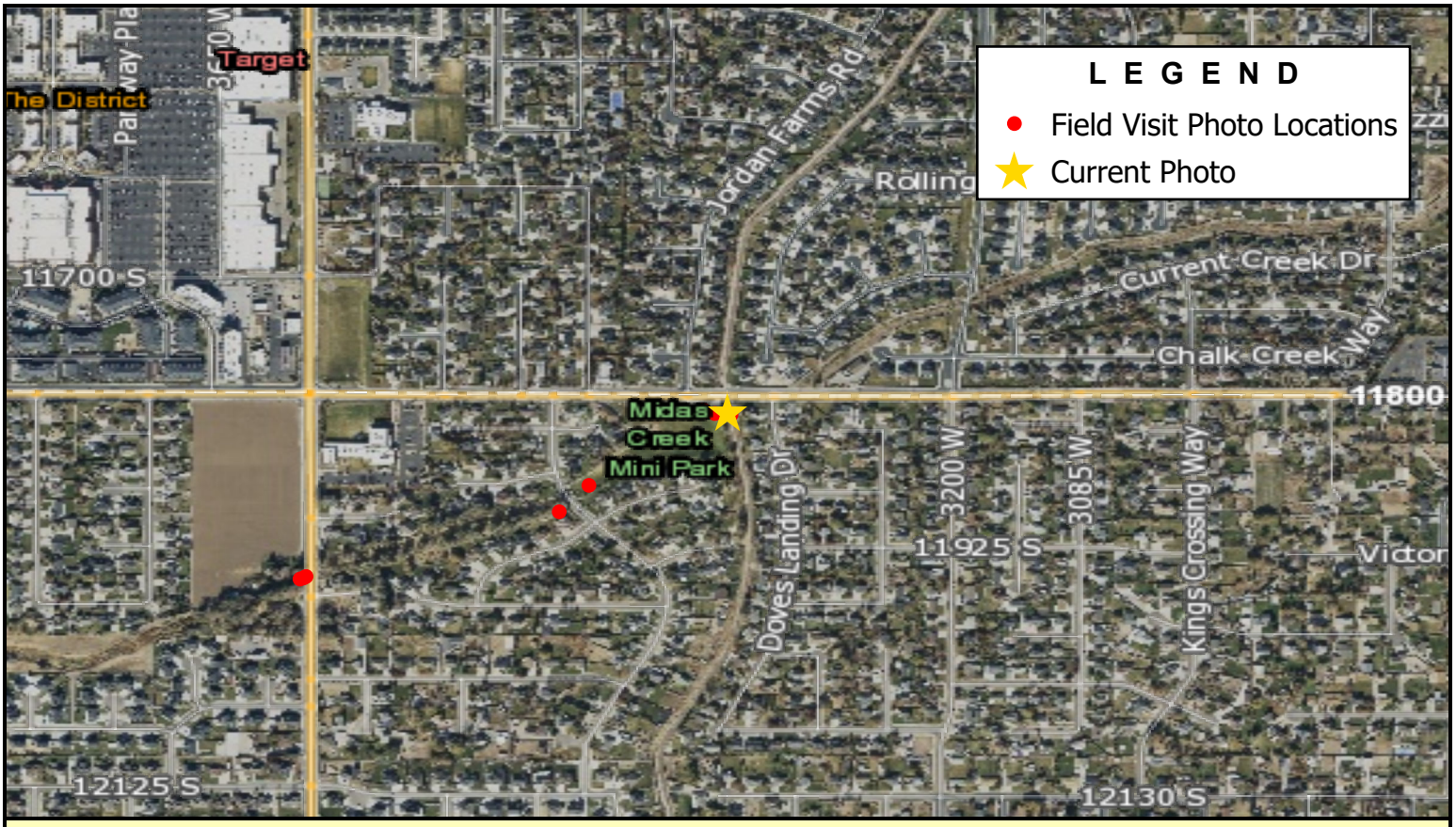

Note: Discharge/overflow structure looking downstream along ULDC

BOWEN COLLINS & ASSOCIATES

Utah Lake Distribution Canal

Salt Lake County Flood Control

Midas Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 7

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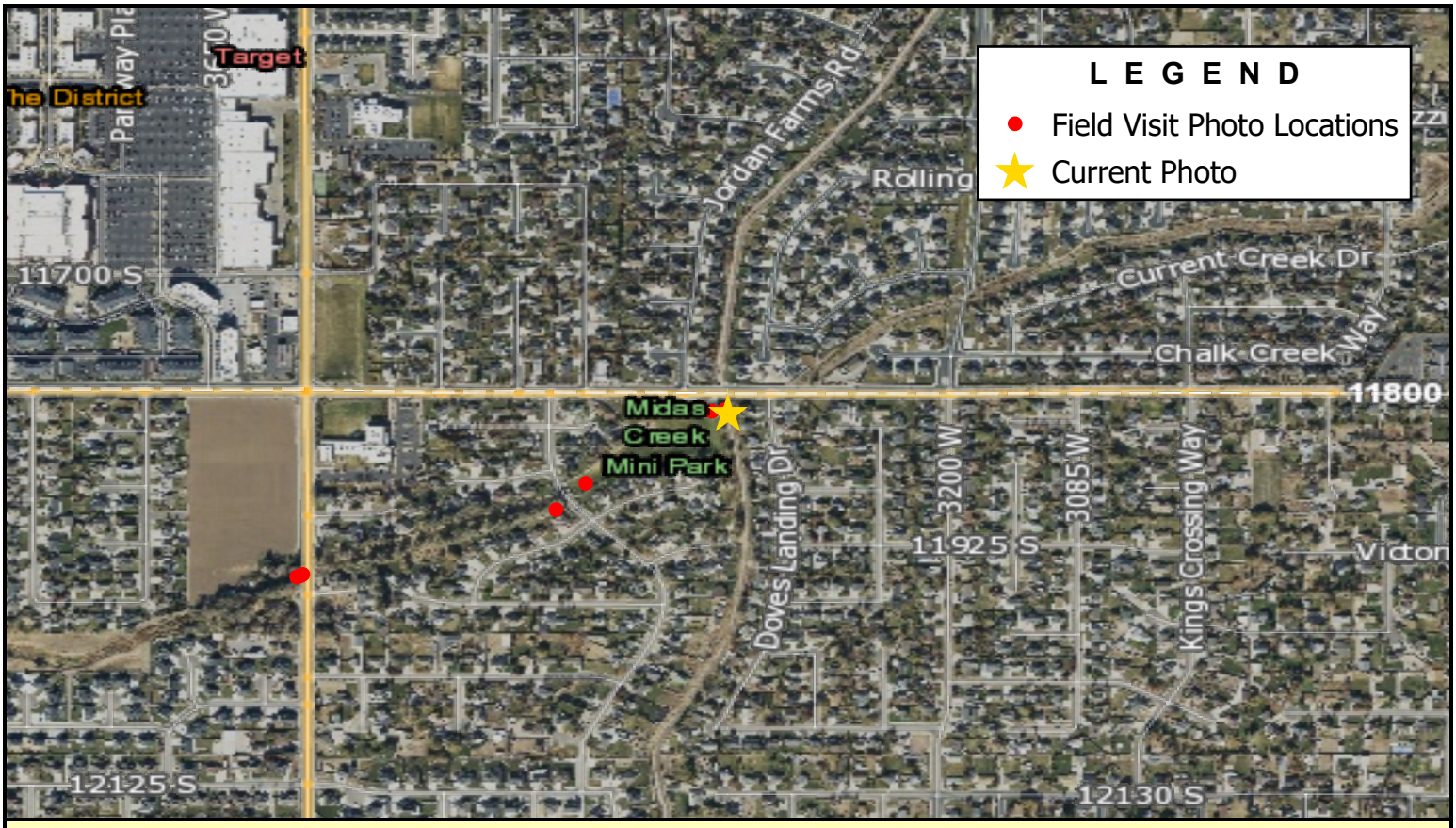

Note: Discharge/overflow structure looking downstream along ULDC

BOWEN COLLINS & ASSOCIATES

Utah Lake Distribution Canal

Salt Lake County Flood Control

Midas Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 8

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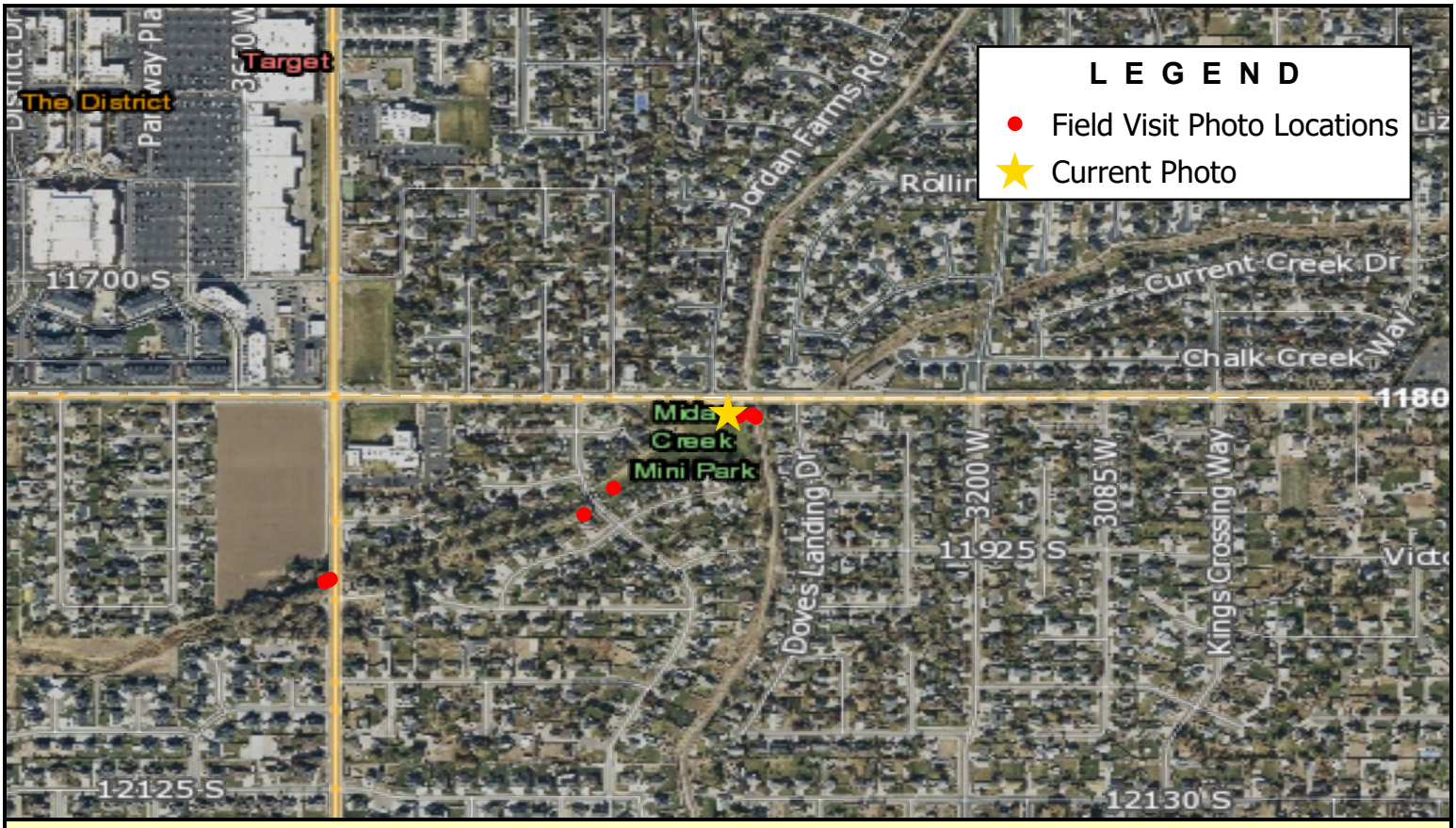

Note: 11800 S detention basin outlet structure

BOWEN COLLINS & ASSOCIATES

11800 S Detention Basin

Salt Lake County Flood Control

Midas Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 9

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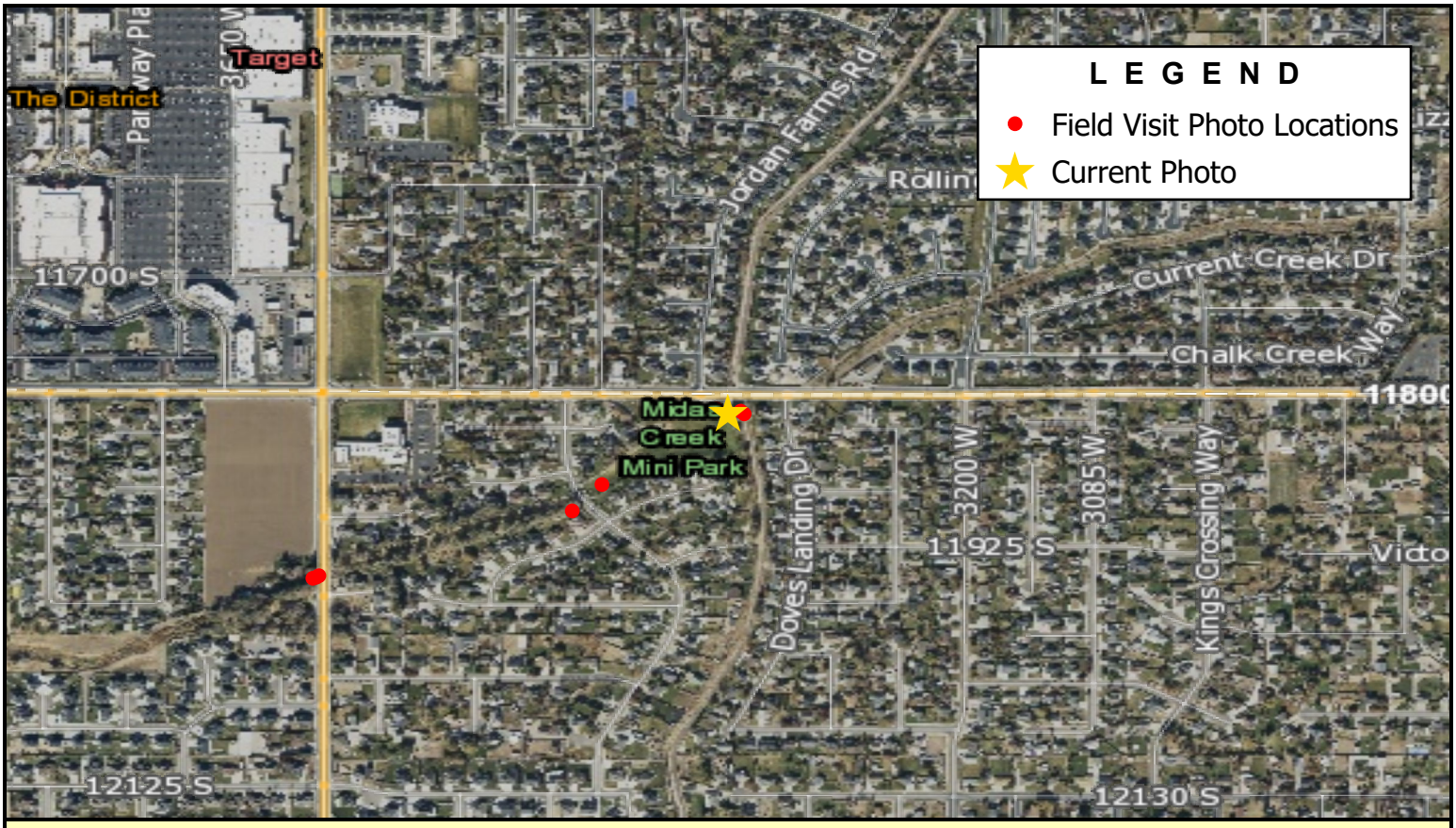

Note: 11801 S detention basin

BOWEN COLLINS & ASSOCIATES

11801 S Detention Basin

Salt Lake County Flood Control

Midas Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 10

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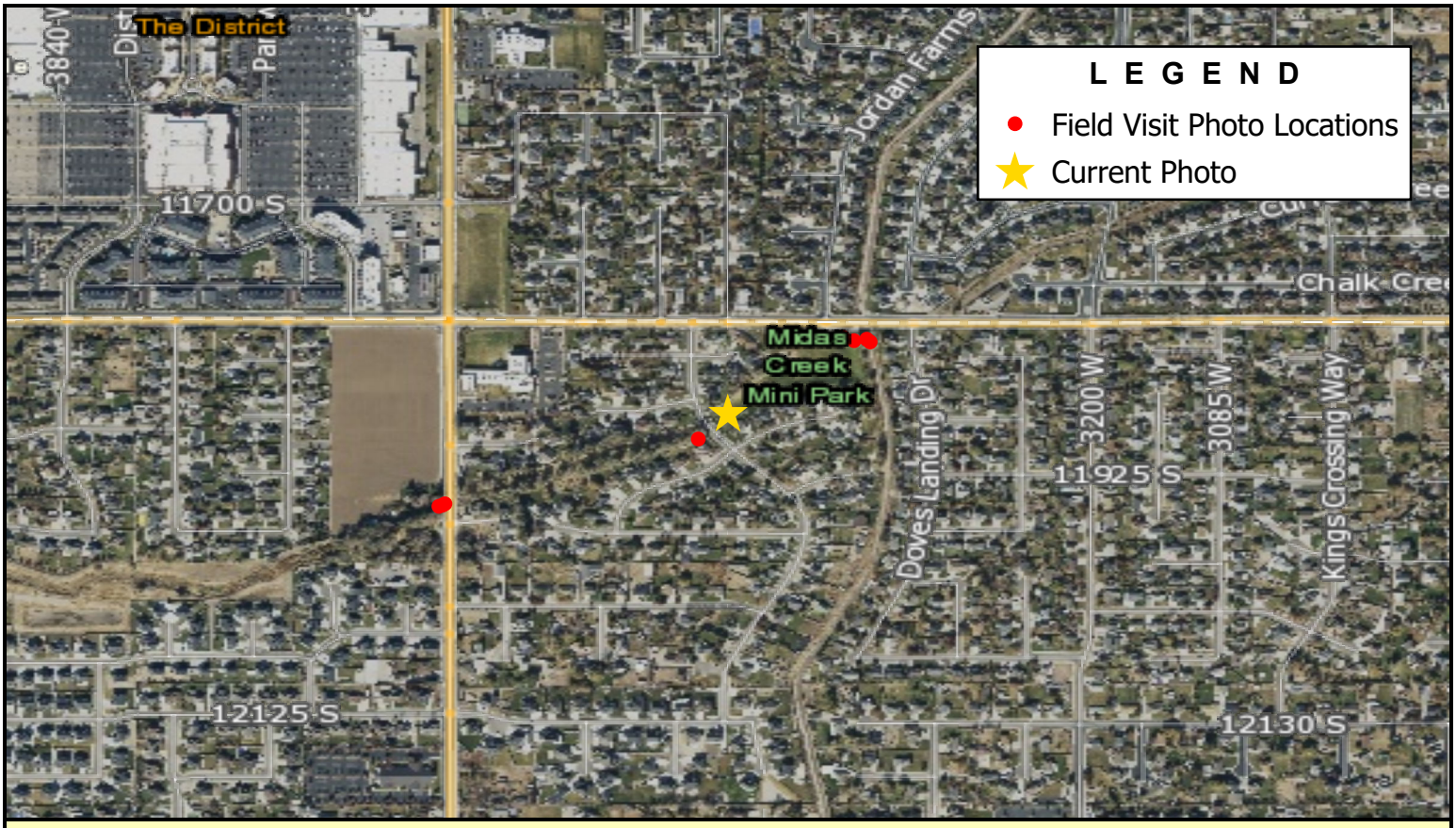

Note: Janice Drive bridge, downstream face

BOWEN COLLINS & ASSOCIATES

Janice Drive

Salt Lake County Flood Control

Midas Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 11

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Note: Midas Creek, looking upstream from Janice Drive bridge

BOWEN COLLINS & ASSOCIATES

Janice Drive

Salt Lake County Flood Control

Midas Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 12

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_MidasCreek_Photos.aprx coppliger 11/16/2020

Note: 3600 W culvert, downstream face

BOWEN COLLINS & ASSOCIATES	3600 W	NORTH: NORTH	SCALE: 0 500 1,000 Feet
	Salt Lake County Flood Control Midas Creek SWCC Study		PHOTOGRAPH NO. 13

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_MidasCreek_Photos.aprx coppliger 11/16/2020

Note: Midas creek, looking upstream from 3600 W culvert

BOWEN COLLINS & ASSOCIATES

3600 W

Salt Lake County Flood Control

Midas Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 14

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Note: 3600 W culvert, buckling CMP

BOWEN COLLINS & ASSOCIATES

3600 W

Salt Lake County Flood Control

Midas Creek SWCC Study

NORTH:

NORTH

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 15

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Note: Bangerter Highway culvert, downstream face

BOWEN COLLINS & ASSOCIATES

Bangerter Highway

Salt Lake County Flood Control

Midas Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 16

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_MidasCreek_Photos.aprx coppliger 11/16/2020

Note: Midas Creek channel degradation, looking upstream from Bangerter

BOWEN COLLINS & ASSOCIATES

Bangerter Highway

Salt Lake County Flood Control

Midas Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 17

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_MidasCreek_Photos.aprx coppliger 11/16/2020

Note: Bangerter Highway culvert and upstream channel degradation, upstream face

BOWEN COLLINS & ASSOCIATES

Bangerter Highway

Salt Lake County Flood Control

Midas Creek SWCC Study

NORTH:

NORTH

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 18

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Note: 4000 W culvert,upstream face

BOWEN COLLINS & ASSOCIATES

4000 W

Salt Lake County Flood Control

Midas Creek SWCC Study

NORTH:

NORTH

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 19

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Note: Midas creek, looking upstream from 4000 W culvert

BOWEN COLLINS & ASSOCIATES

4000 W

Salt Lake County Flood Control

Midas Creek SWCC Study

NORTH:

NORTH

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 20

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Note: Culvert under Welby Jacobs Canal, downstream face

BOWEN COLLINS & ASSOCIATES

Welby Jacobs Canal

Salt Lake County Flood Control

Midas Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 21

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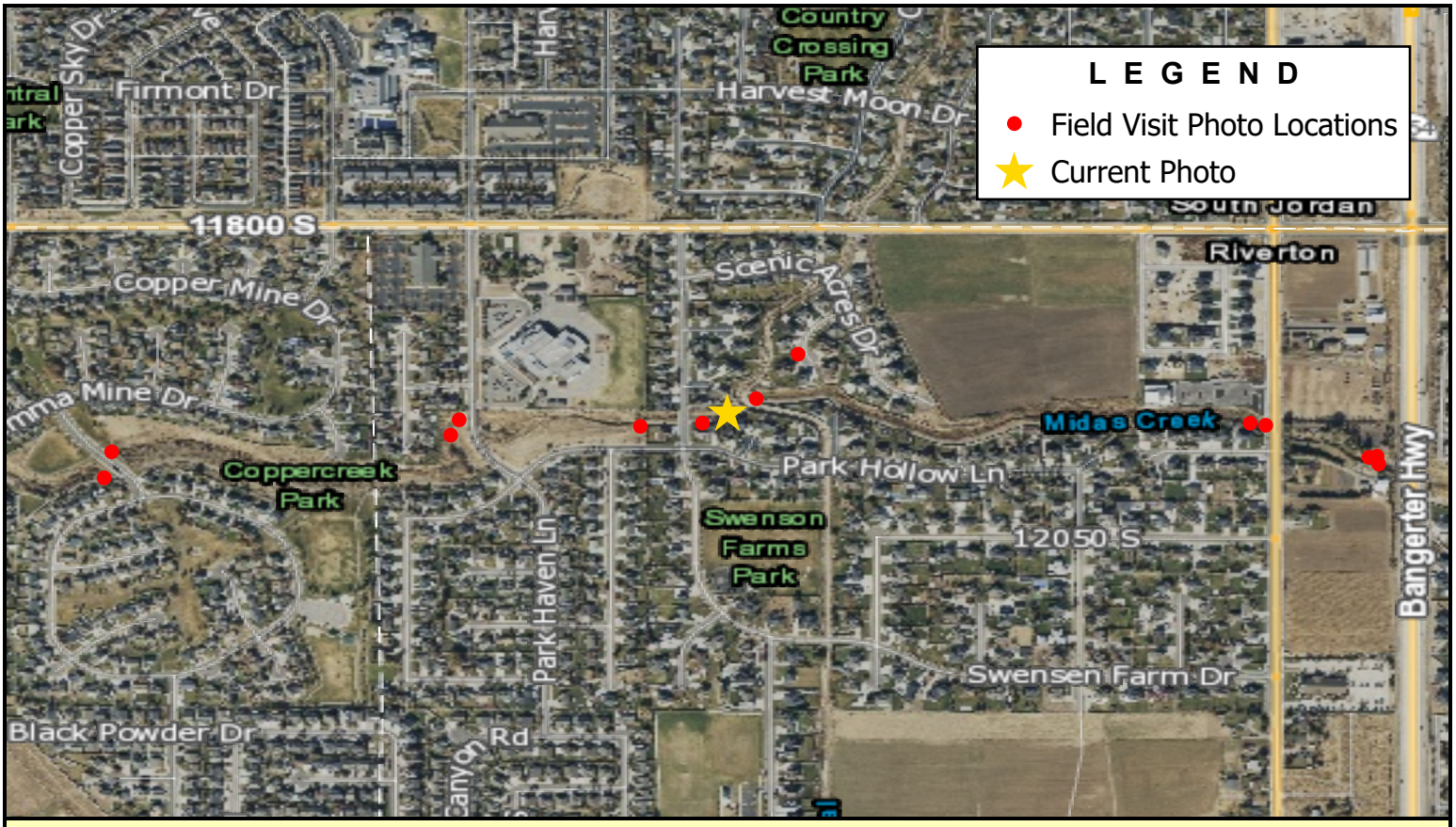

Note: Welby Jacobs discharge structure to Midas Creek, looking downstream

BOWEN COLLINS & ASSOCIATES

Welby Jacobs Canal

Salt Lake County Flood Control

Midas Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 22

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_MidasCreek_Photos.aprx coppliger 11/16/2020

Note: Welby Jacobs Canal and discharge structure to Midas Creek, looking downstream

BOWEN COLLINS & ASSOCIATES

Welby Jacobs Canal

Salt Lake County Flood Control

Midas Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 23

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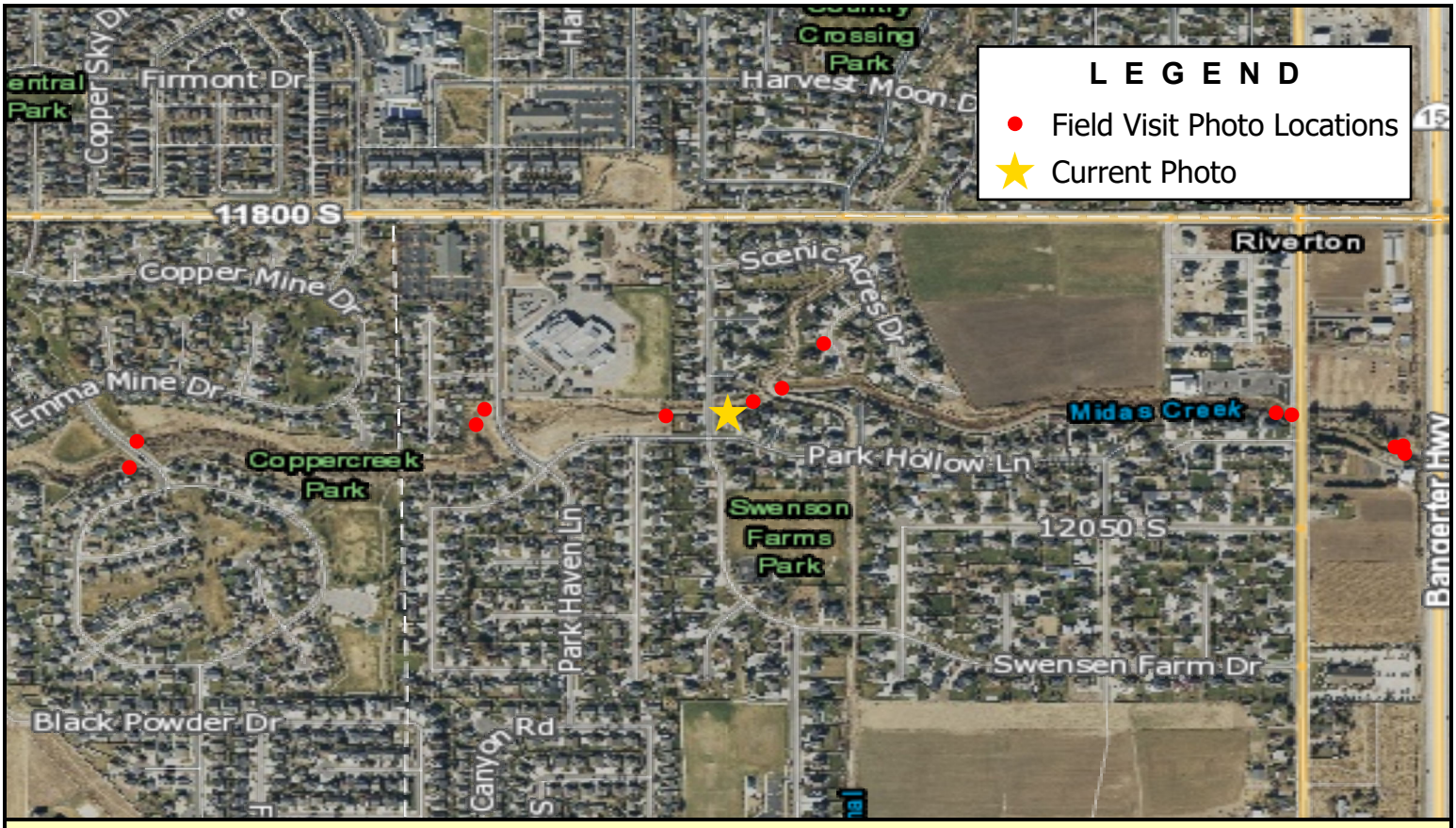

Note: Swensen Farms Drive culvert, upstream face

BOWEN COLLINS & ASSOCIATES

Swensen Farms Drive

Salt Lake County Flood Control

Midas Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 24

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Note: Midas Creek and Swensen Farms Drive culvert, upstream face

BOWEN COLLINS & ASSOCIATES

Swensen Farms Drive

Salt Lake County Flood Control

Midas Creek SWCC Study

NORTH:

NORTH

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 25

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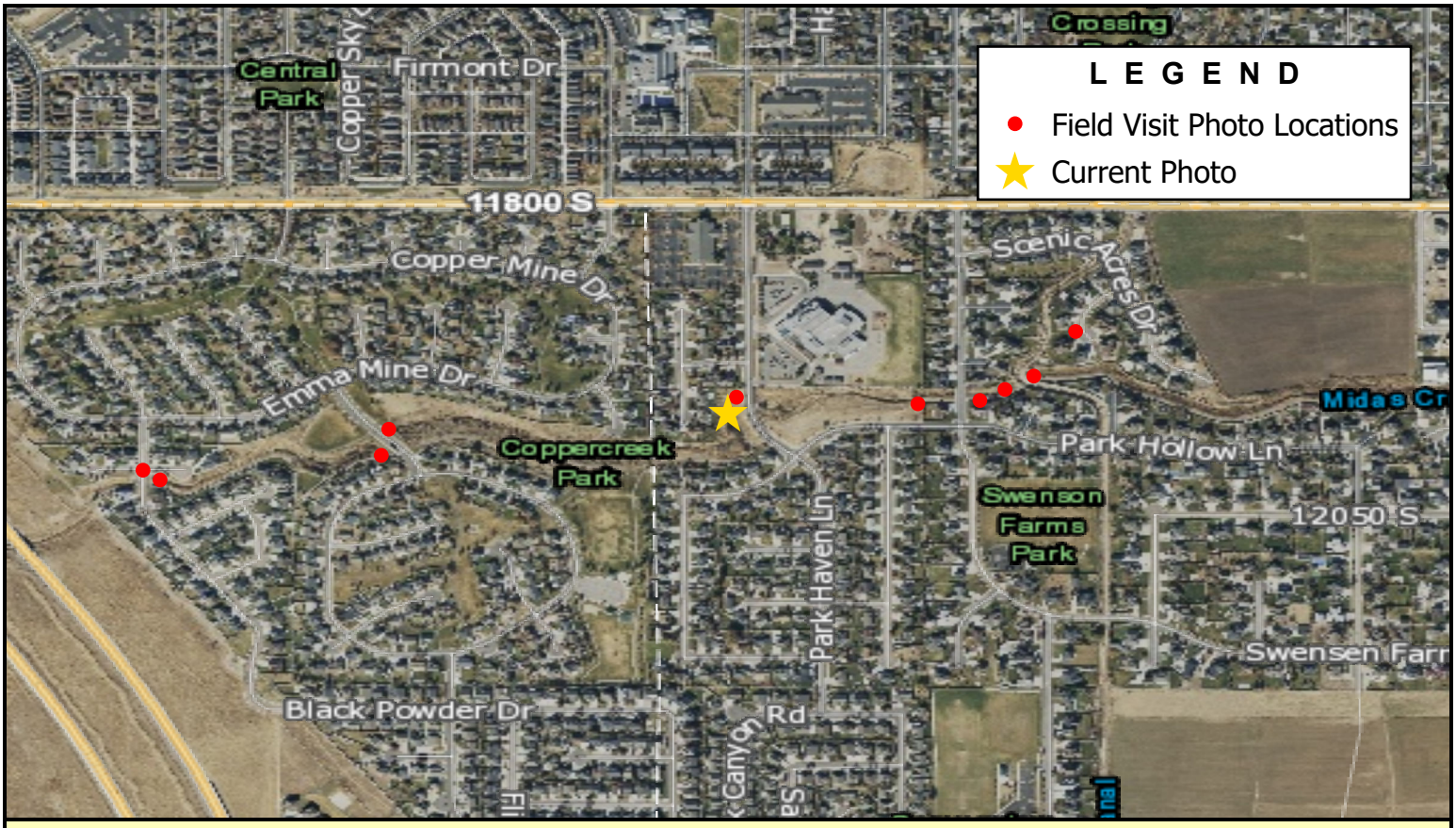

Note: Park Haven Lane culvert, downstream face

BOWEN COLLINS & ASSOCIATES

Park Haven Lane

Salt Lake County Flood Control

Midas Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 26

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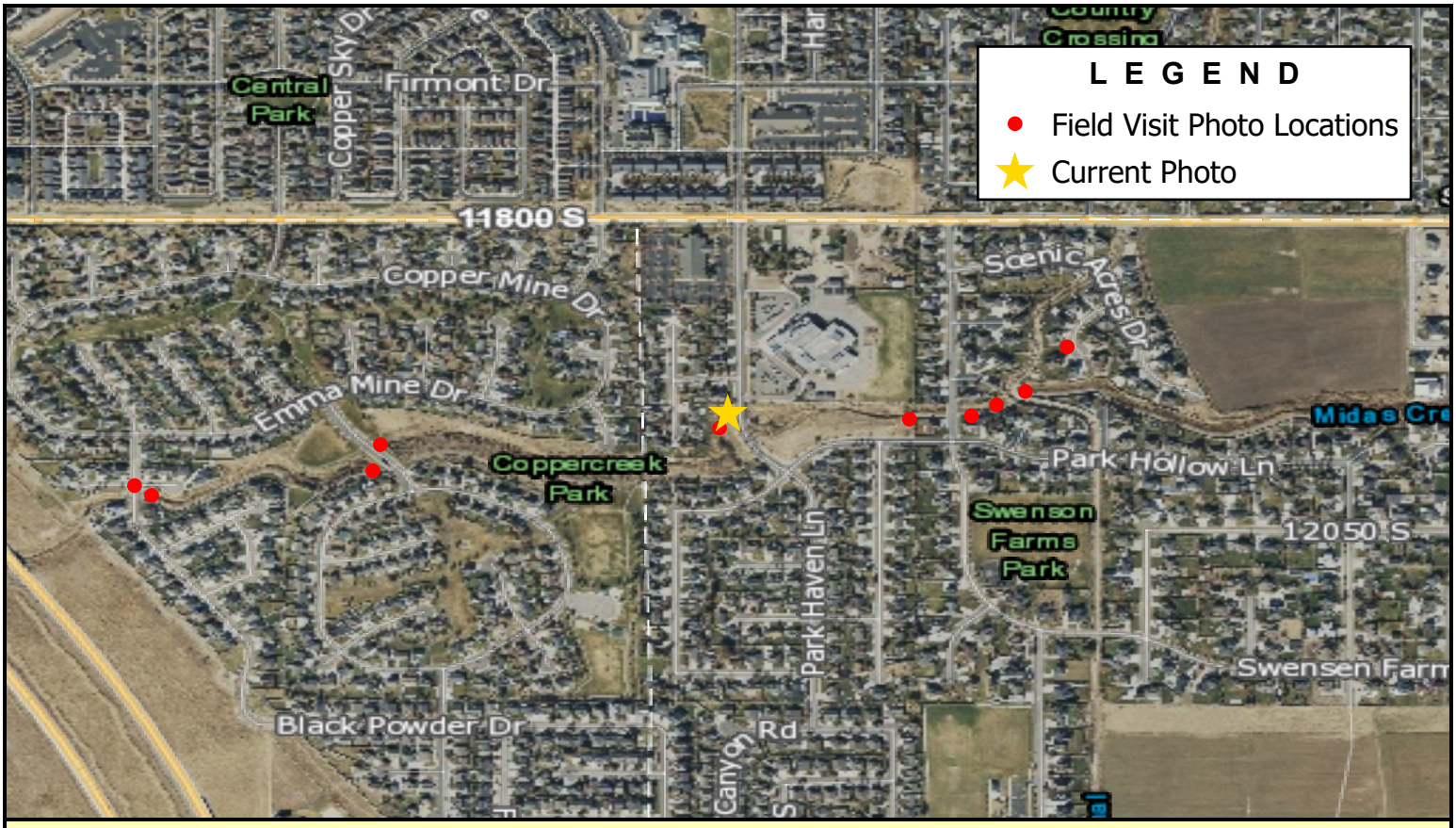

Note: Park Haven Lane culvert, upstream face

BOWEN COLLINS & ASSOCIATES

Park Haven Lane

Salt Lake County Flood Control

Midas Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 27

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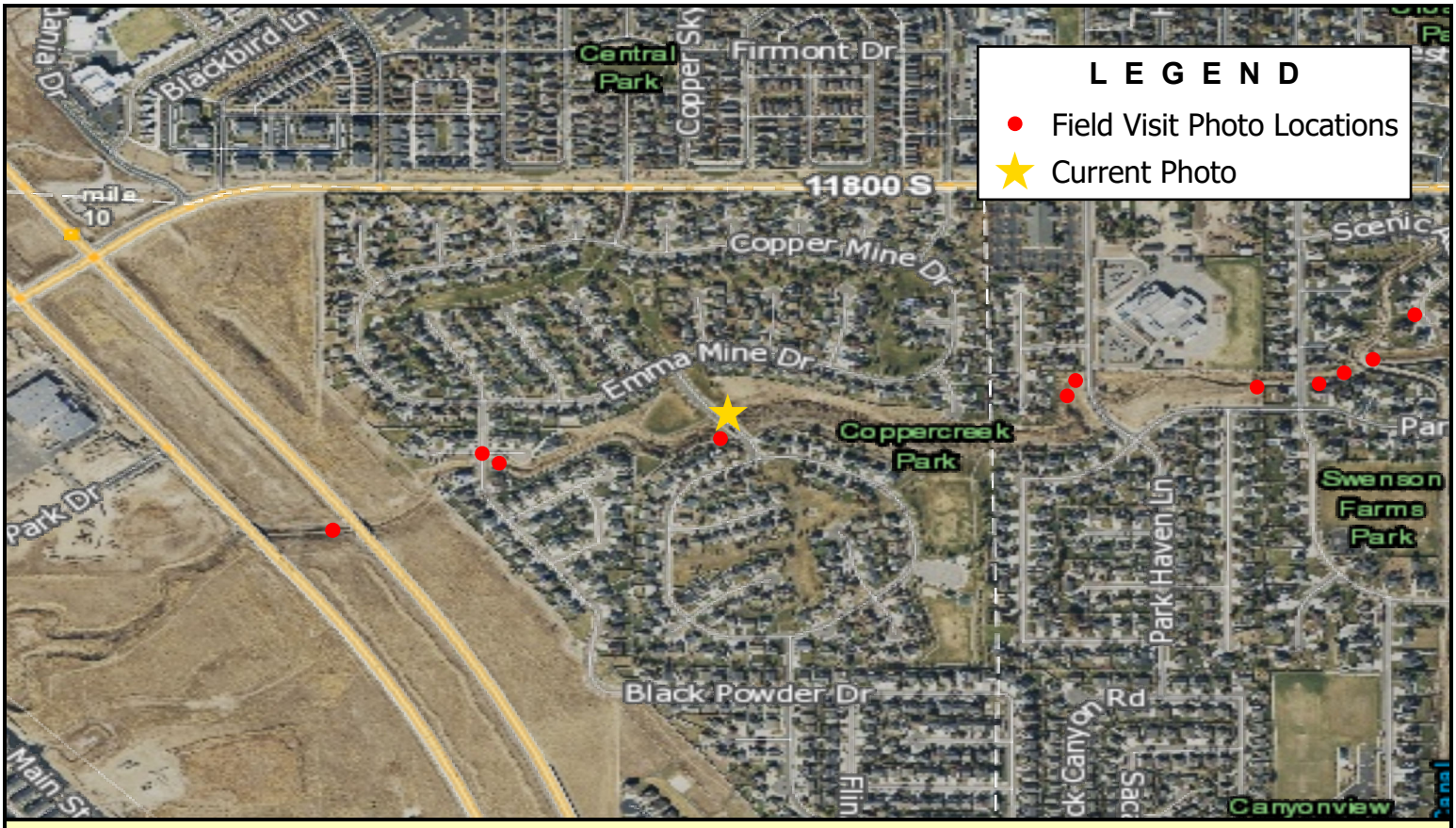

Note: Midas Creek, looking downstream from Midas Vista culvert

BOWEN COLLINS & ASSOCIATES

Midas Vista Road

Salt Lake County Flood Control

Midas Creek SWCC Study

NORTH:

NORTH

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 28

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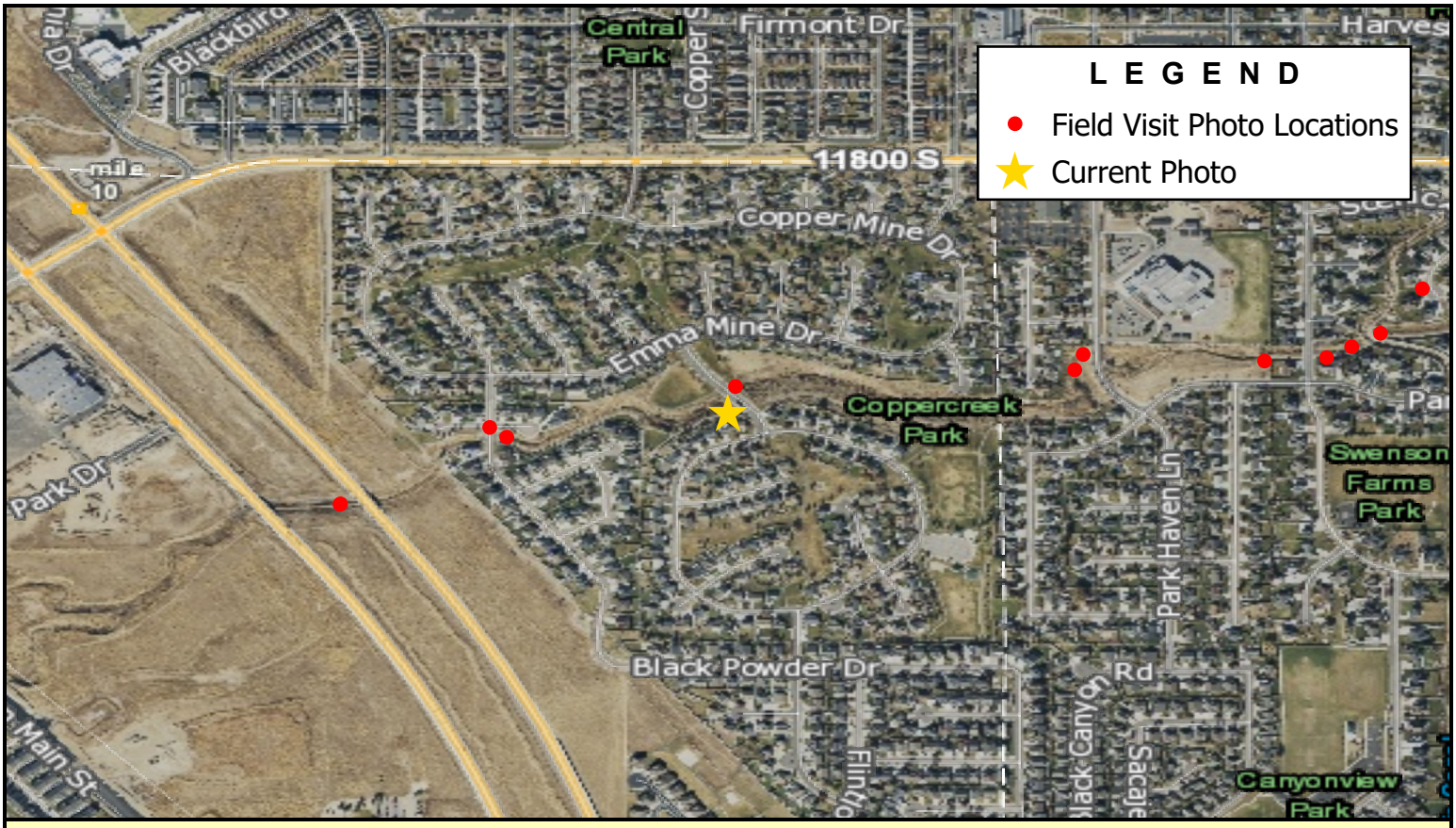

Note: Midas Vista culvert, upstream face

BOWEN COLLINS & ASSOCIATES

Midas Vista Road

Salt Lake County Flood Control

Midas Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 29

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_MidasCreek_Photos.aprx coppliger 11/16/2020

Note: Black Powder Drive culvert, downstream face

BOWEN COLLINS & ASSOCIATES

Black Powder Drive

Salt Lake County Flood Control

Midas Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 30

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_MidasCreek_Photos.aprx coppliger 11/16/2020

Note: Midas Creek, looking upstream from Black Powder Drive culvert

BOWEN COLLINS & ASSOCIATES

Black Powder Drive

Salt Lake County Flood Control

Midas Creek SWCC Study

NORTH:

NORTH

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 31

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Note: Mountainview Corridor NB bridge, upstream face

BOWEN COLLINS & ASSOCIATES

Mountainview Corridor

Salt Lake County Flood Control

Midas Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 32

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_MidasCreek_Photos.aprx coppliger 11/16/2020

Note: Mountainview Corridor SB bridge, downstream face

BOWEN COLLINS & ASSOCIATES

Mountainview Corridor

Salt Lake County Flood Control

Midas Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 33

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_MidasCreek_Photos.aprx coppliger 11/16/2020

Note: Herriman Main Street bridge, downstream face

BOWEN COLLINS & ASSOCIATES

Herriman Main Street

Salt Lake County Flood Control

Midas Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 34

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_MidasCreek_Photos.aprx coppliger 11/16/2020

Note: Herriman Main Street bridge, upstream face

BOWEN COLLINS & ASSOCIATES

Herriman Main Street

Salt Lake County Flood Control

Midas Creek SWCC Study

NORTH:

NORTH

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 35

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_MidasCreek_Photos.aprx coppliger 11/16/2020

Note: Midas Creek, looking downstream from 5600 W culvert

BOWEN COLLINS & ASSOCIATES

5600 W

Salt Lake County Flood Control

Midas Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 36

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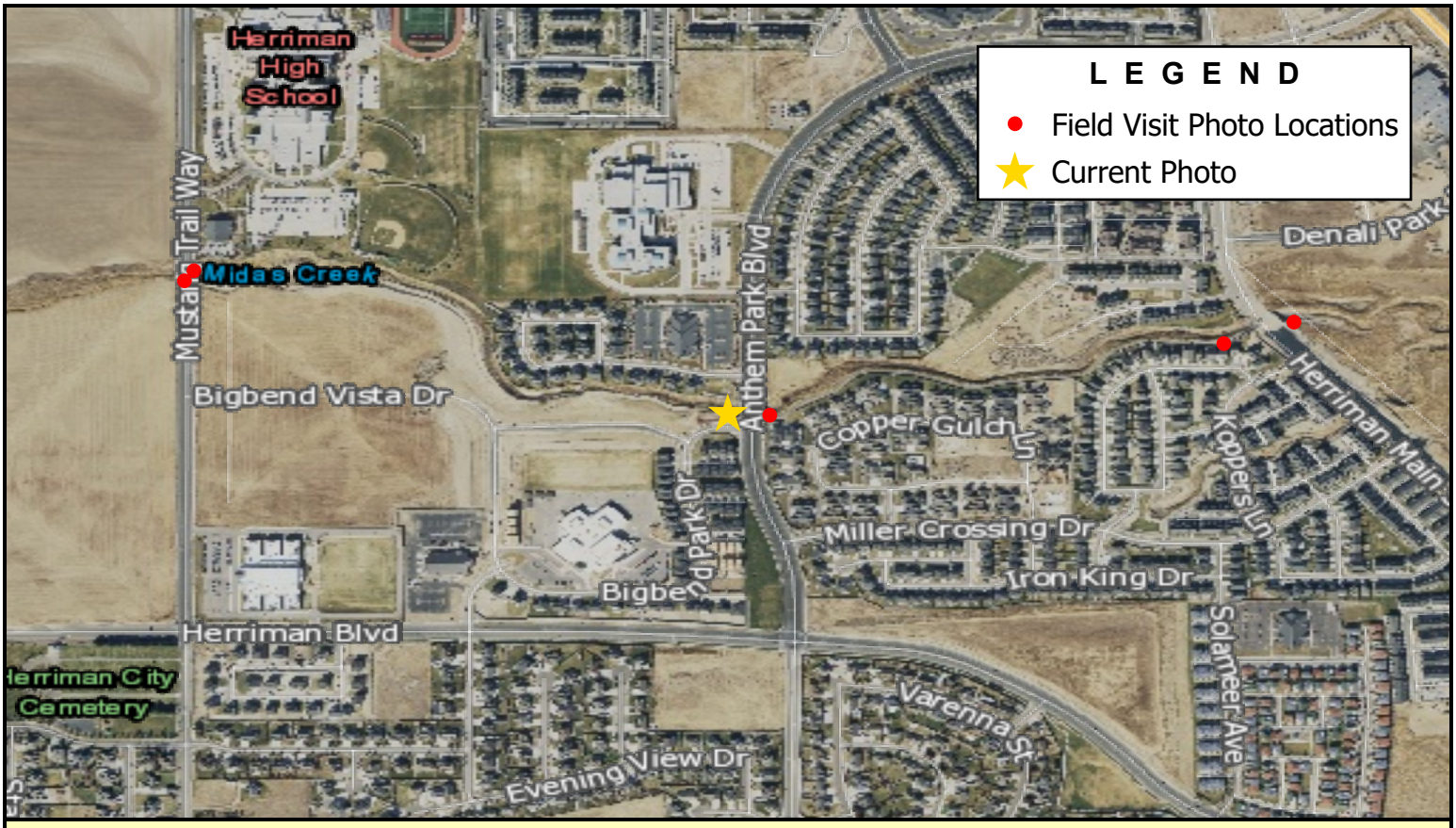


Note: 5600 W culvert, upstream face

BOWEN COLLINS & ASSOCIATES

5600 W

Salt Lake County Flood Control

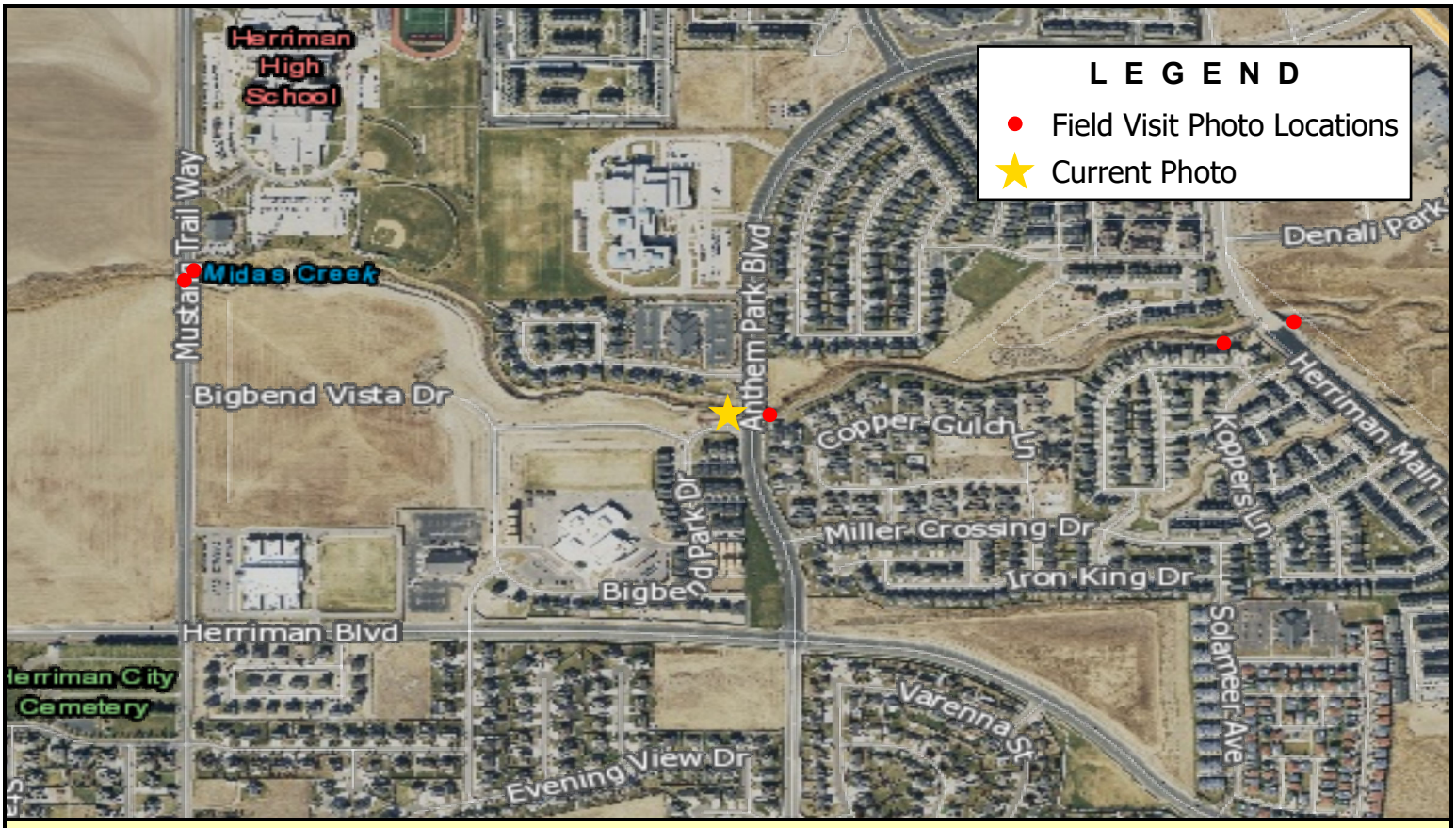
Midas Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 37

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_MidasCreek_Photos.aprx coppliger 11/16/2020



Note: Midas Creek, looking upstream from 5600 W culvert

BOWEN COLLINS & ASSOCIATES

5600 W

Salt Lake County Flood Control

Midas Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 38

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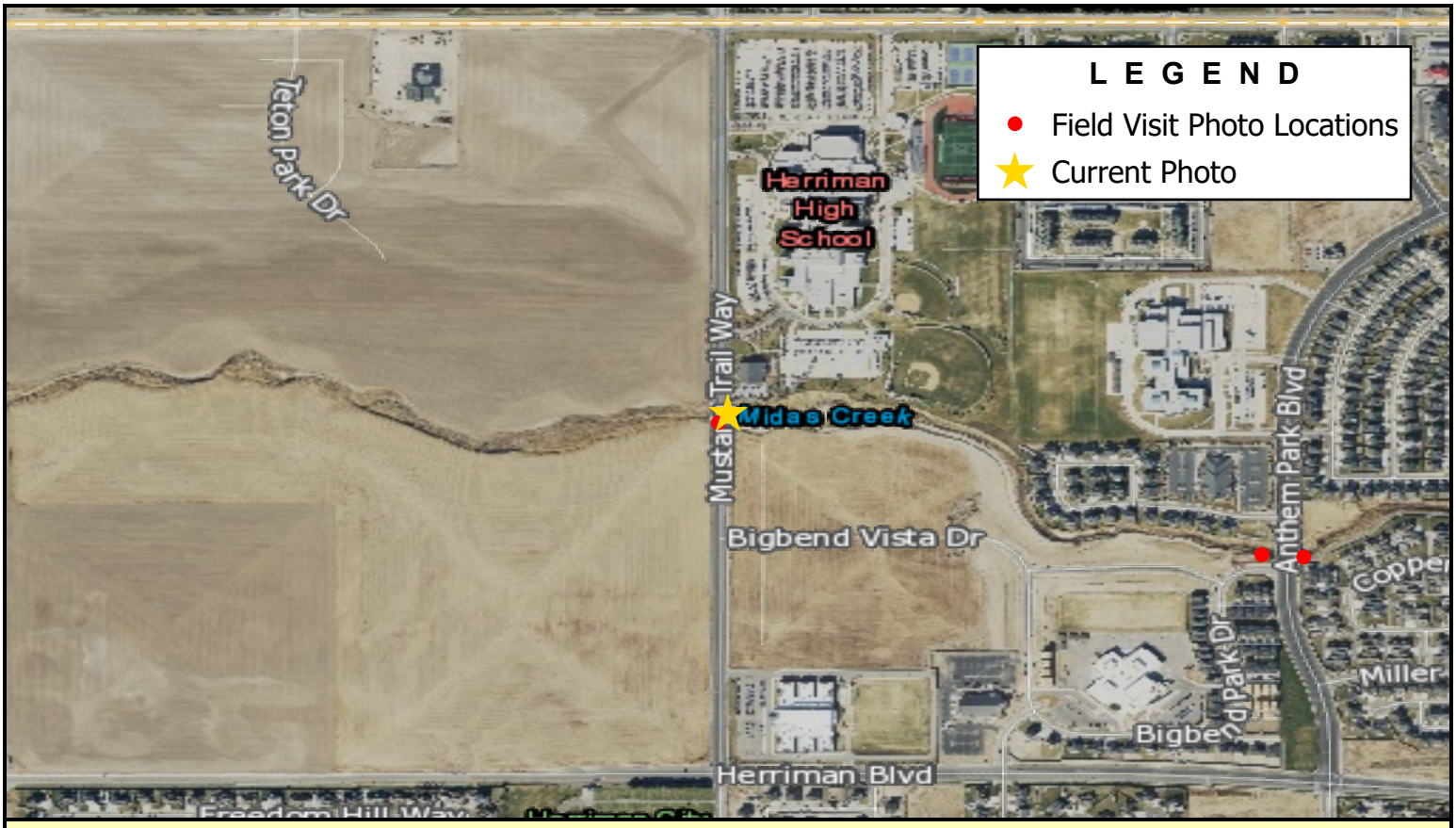


Note: Midas Creek, looking downstream from Mustang Trail Way culvert

BOWEN COLLINS & ASSOCIATES

Mustang Trail Way

Salt Lake County Flood Control

Midas Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 39

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_MidasCreek_Photos.aprx coppliger 11/16/2020

Note: Mustang Trail Way culvert, upstream face

BOWEN COLLINS & ASSOCIATES

Mustang Trail Way

Salt Lake County Flood Control

Midas Creek SWCC Study

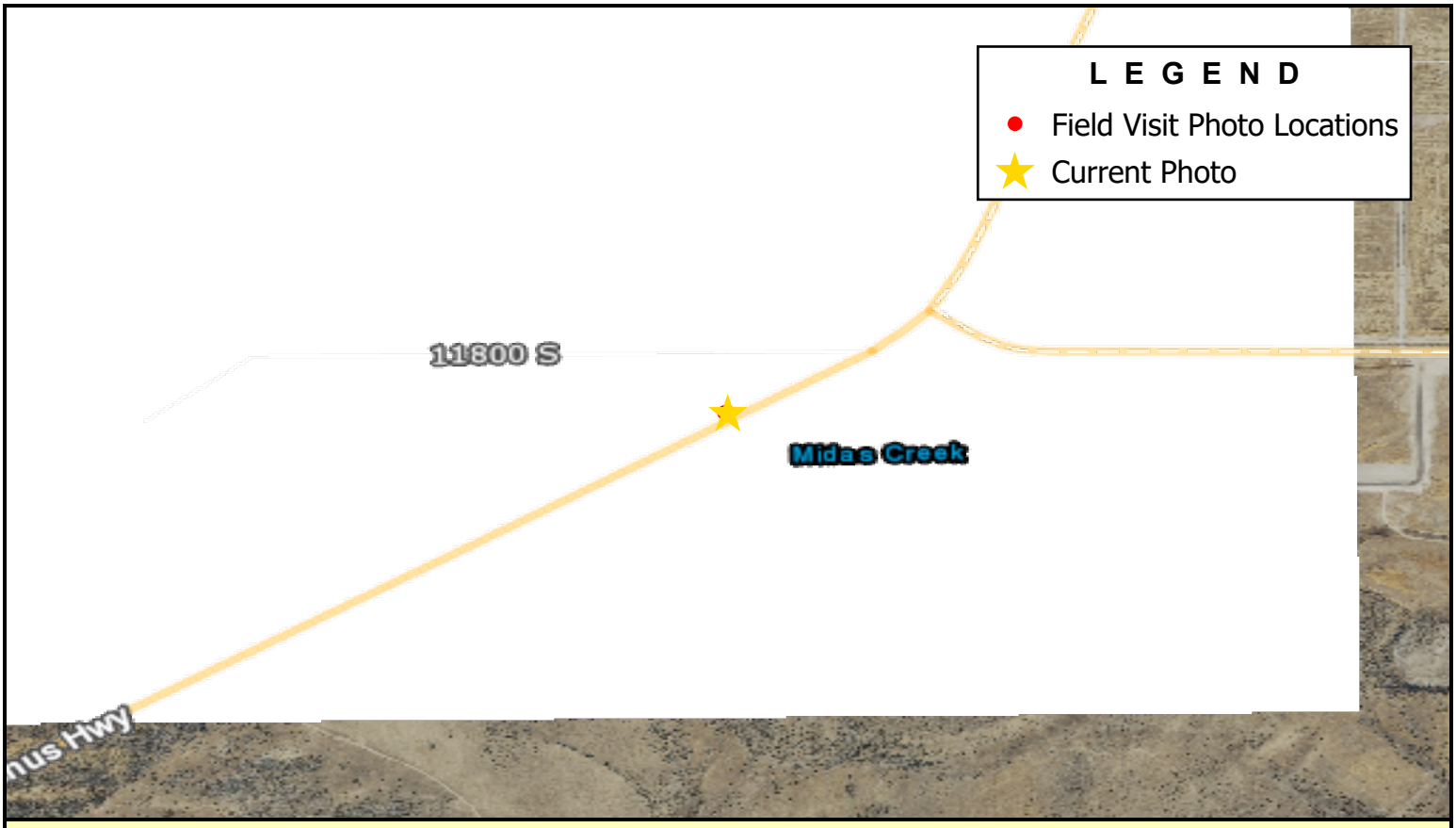
NORTH:

NORTH

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 40

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_MidasCreek_Photos.aprx coppliger 11/16/2020



Note: Baccus Highway culvert, upstream end

BOWEN COLLINS & ASSOCIATES

Baccus Highway

Salt Lake County Flood Control

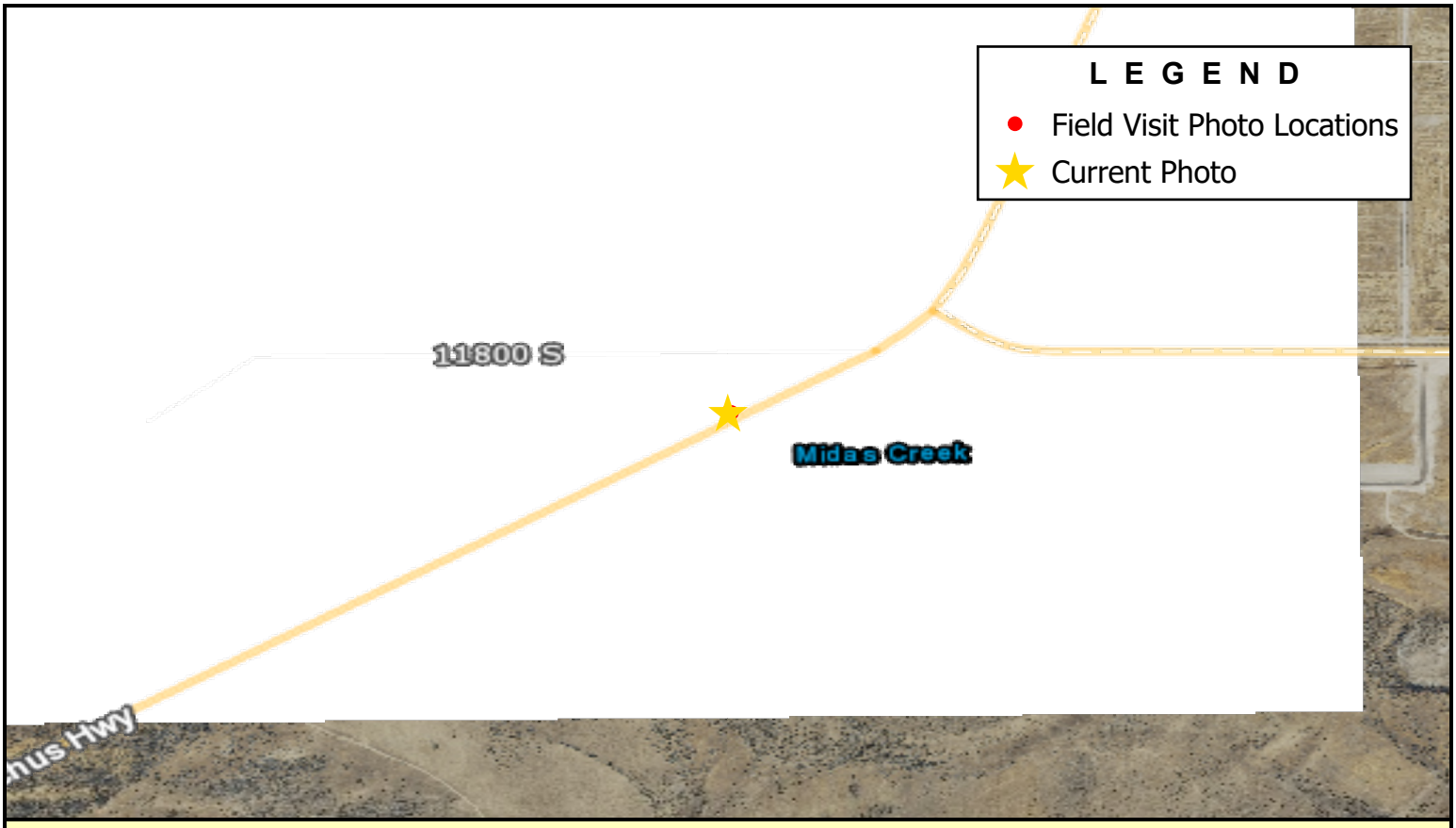
Midas Creek SWCC Study

NORTH:

SCALE: 0 500 1,000 Feet

PHOTOGRAPH NO. 41

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_MidasCreek_Photos.aprx coppliger 11/16/2020



Note: Baccus Highway culvert, downstream end

BOWEN COLLINS & ASSOCIATES

Baccus Highway

Salt Lake County Flood Control

Midas Creek SWCC Study

NORTH:

NORTH

SCALE:
0 500 1,000
Feet

PHOTOGRAPH NO.
42

P:\Salt Lake County\2019 Phase 2 - Southwest Canal and Creek Study\4.0 GIS\SWCC_MidasCreek_Photos.aprx coppliger 11/16/2020

APPENDIX B

PRELIMINARY FEMA FLOODPLAIN MAPS

FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT

HTTP://MSC.FEMA.GOV

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A,V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee See Notes *Zone X*

OTHER AREAS
- NO SCREEN — Area of Minimal Flood Hazard *Zone X*
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- E (18.2 / 17.5) — Cross Sections with 1% Annual Chance Water Surface Elevation (BFE)
- 8 — Coastal Transect
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature
- 513 — Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary

NOTES TO USERS

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SCALE

N

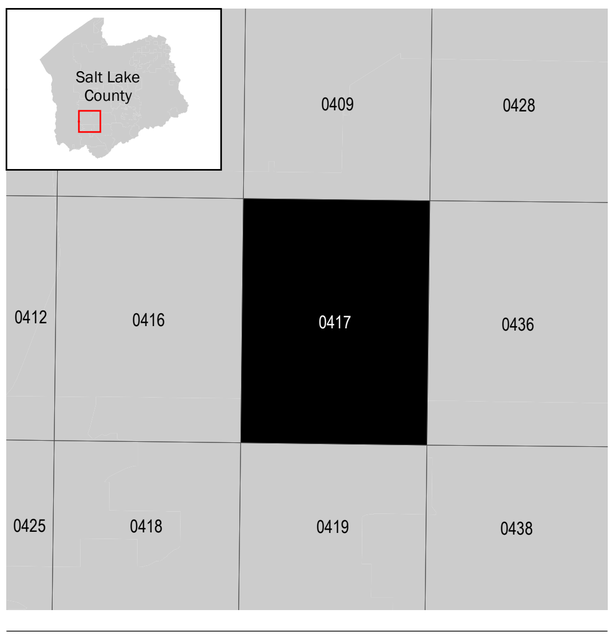
Map Projection:
North American Datum 1983 UTM Zone 12 North;
Western Hemisphere; Vertical Datum: NAVD 88

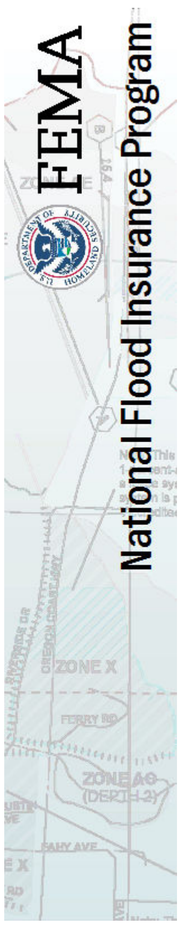
1 inch = 500 feet 1:6,000

0 500 1,000 2,000 Feet

0 125 250 500 Meters

PANEL LOCATOR





NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP

SALT LAKE COUNTY, UTAH
and Incorporated Areas

PANEL 417 OF 625

FEMA

Panel Contains:

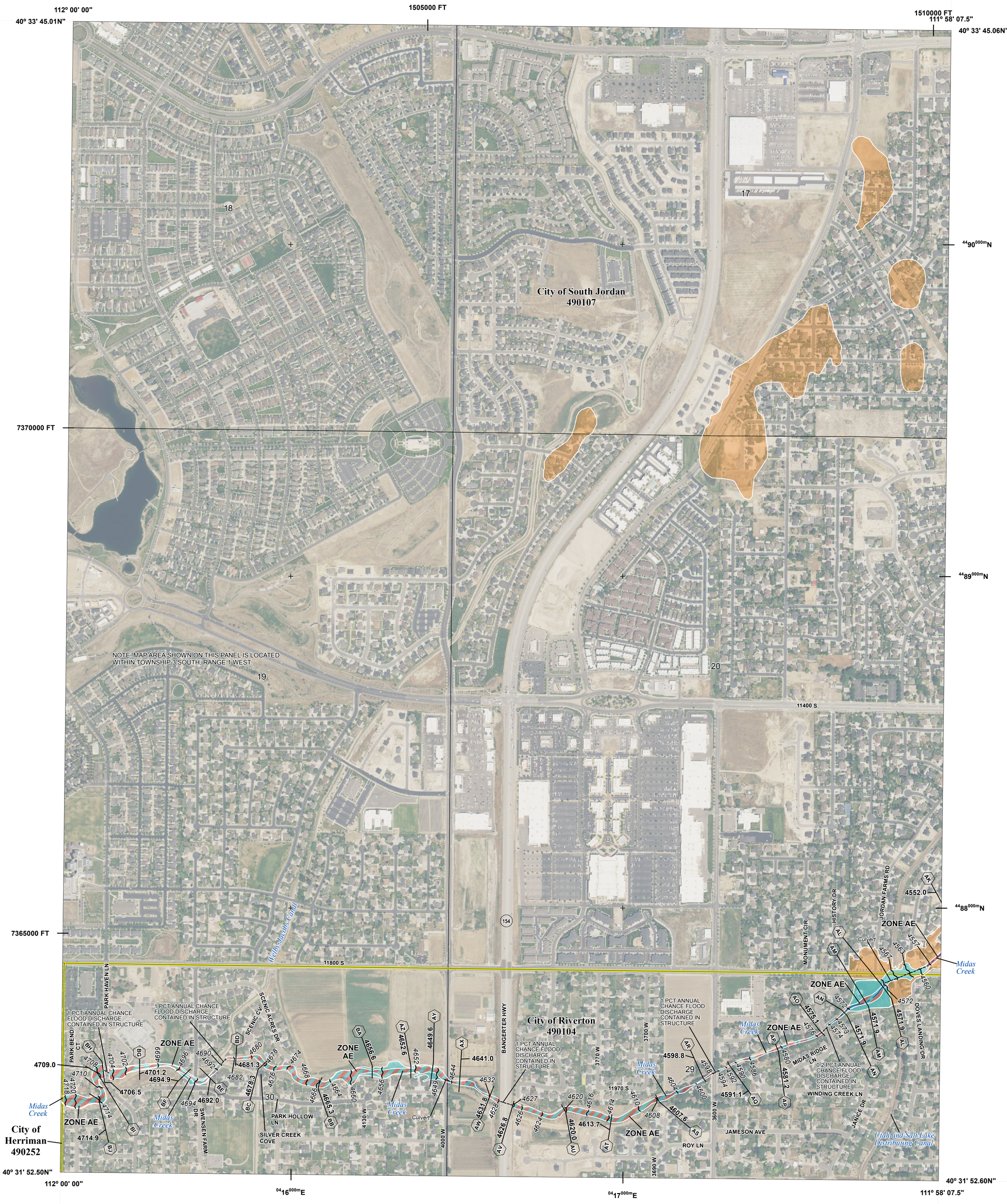
COMMUNITY	NUMBER	PANEL	SUFFIX
HERRIMAN, CITY OF	490252	417	H
SOUTH JORDAN, CITY OF	490107	417	H

PRELIMINARY
JULY 12, 2019

VERSION NUMBER
2.3.3.2

MAP NUMBER
49035C0417H

MAP REVISED



FLOOD HAZARD INFORMATION

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- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD

- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee See Notes *Zone X*

OTHER AREAS

- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES

- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES

- E 18.2 / 17.5 Cross Sections with 1% Annual Chance Water Surface Elevation (BFE)
- 8 Coastal Transect
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary

NOTES TO USERS

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SCALE

N

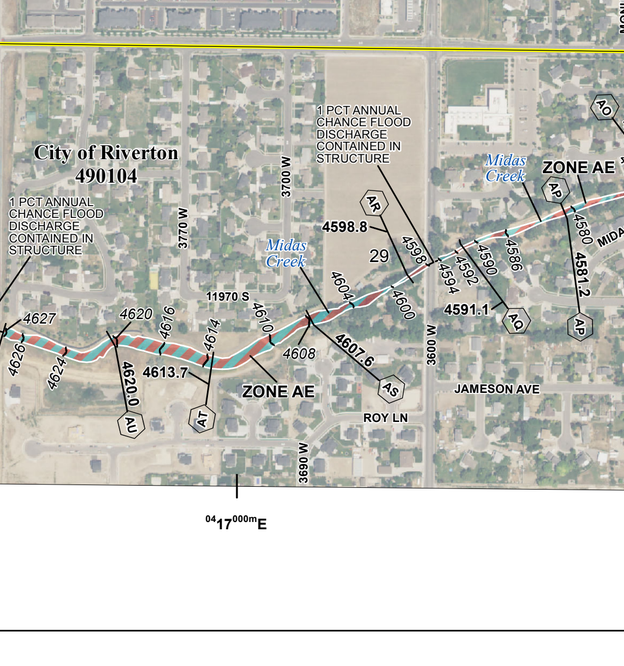
Map Projection:
North American Datum 1983 UTM Zone 12 North;
Western Hemisphere; Vertical Datum: NAVD 88

1 inch = 500 feet 1:6,000

0 500 1,000 2,000 Feet

0 125 250 500 Meters

PANEL LOCATOR



FEMA National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP

SALT LAKE COUNTY, UTAH
and Incorporated Areas

PANEL 436 OF 625

FEMA

Panel Contains:

COMMUNITY	NUMBER	PANEL	SUFFIX
HERRIMAN, CITY OF	490252	0436	H
RIVERTON, CITY OF	490104	0436	H
SOUTH JORDAN, CITY OF	490107	0436	H

PRELIMINARY
JULY 12, 2019

VERSION NUMBER
2.3.3.2

MAP NUMBER
49035C0436H

MAP REVISED

111° 58' 07.5"
40° 33' 45"
1515000 FT
111° 56' 15"
40° 33' 45"
44 90 000m N
7370000 FT
44 89 000m N
44 88 000m N
7365000 FT
40° 31' 52.5"
111° 58' 07.5"
04 18 000m E
04 19 000m E
04 20 000m E
40° 31' 52.5"
111° 56' 15"
1650 W

NOTE: MAP AREA SHOWN ON THIS PANEL IS LOCATED WITHIN TOWNSHIP 3 SOUTH, RANGE 1 WEST.

City of South Jordan
490107

City of Riverton
490104

Utah and Salt Lake Distributing Canal
Utah and Salt Lake Canal
Midas Creek
Midas Creek 11625 S Split
Butterfield Creek

ZONE AE
1 PCT ANNUAL CHANCE FLOOD DISCHARGE CONTAINED IN STRUCTURE
Culvert
Weir

10755 S
11400 S
11605 S
11625 S
11730 S
11770 S
11780 S
11800 S
11970 S
12015 S
12050 S
12060 S

2200 W
2700 W
3200 W
2950 W
2625 W
2570 W
2510 W
2460 W
2260 W
2240 W
2160 W
2010 W
1940 W
1900 W
1840 W

ROLLING CREEK WAY
ROLLING WATER CT
SPRING GARDEN CT
LIZZI CV
WATER BROOK CT
CURRENT CREEK DR
ROCK CREEK DR
KINGS CROSSING WAY
MIDAS SIDE WAY
CHARTER POINTE RD
WATERSIDE RD
EUREKA WAY
GOLD DUST DR
POLO CLUB CT
INGOT WAY
WINFORD DR
REDWOOD RD
BAMBERGER DR
KENADI VIEW WAY

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SCALE

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North American Datum 1983 UTM Zone 12 North;
Western Hemisphere; Vertical Datum: NAVD 88

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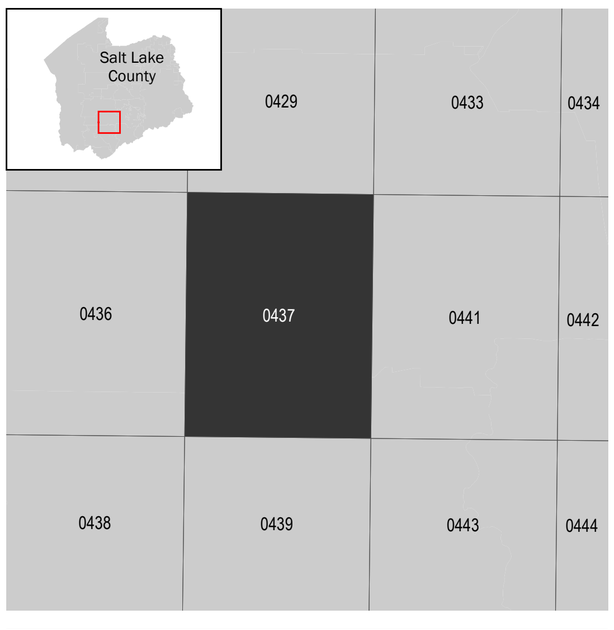
0 500 1,000 2,000 Feet

0 125 250 500 Meters

PANEL LOCATOR



FEMA National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP

SALT LAKE COUNTY, UTAH
and Incorporated Areas

PANEL 437 OF 625

FEMA

Panel Contains:

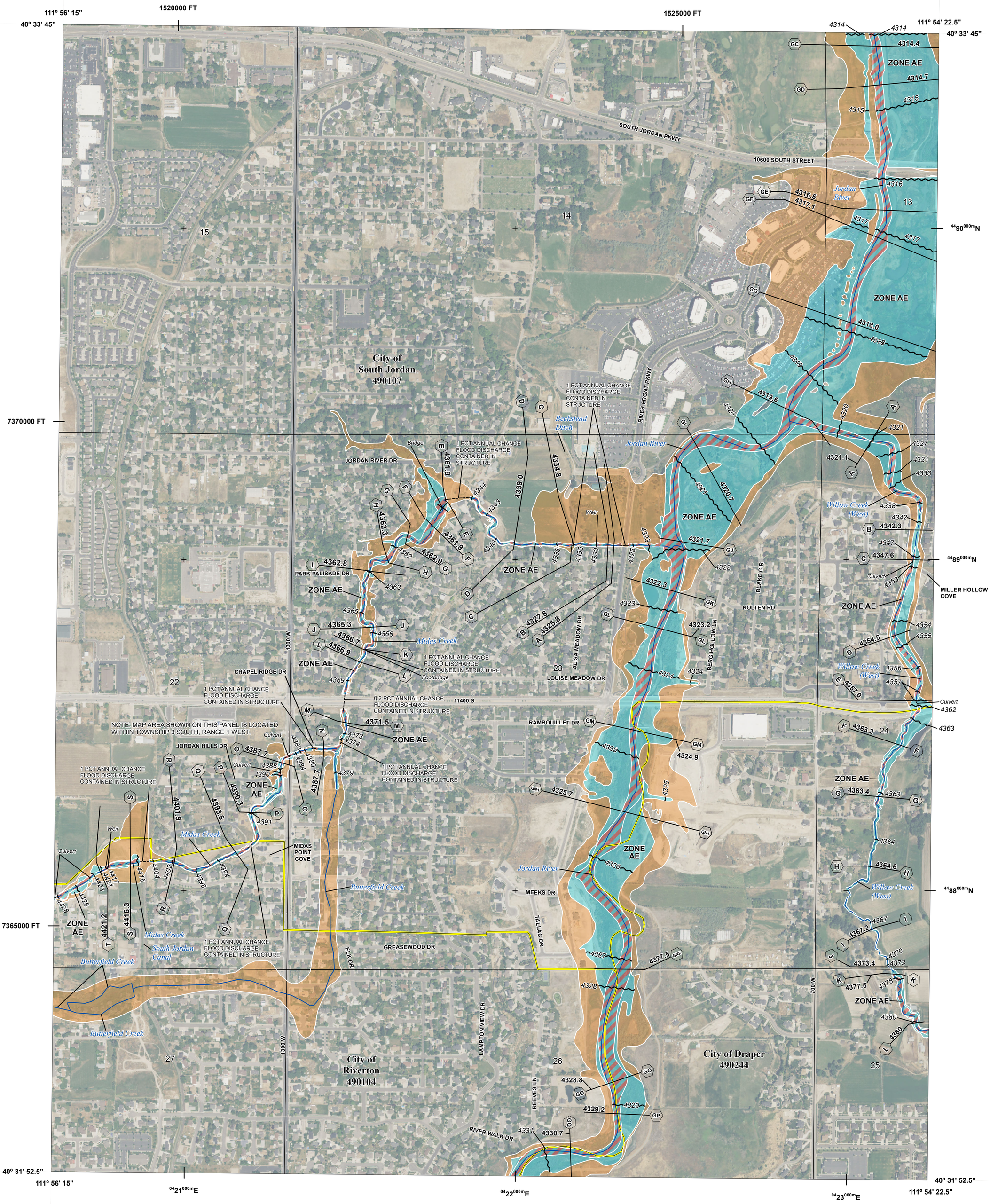
COMMUNITY	NUMBER	PANEL	SUFFIX
RIVERTON, CITY OF	490104	437	H
SOUTH JORDAN, CITY OF	490107	437	H

PRELIMINARY
JULY 12, 2019

VERSION NUMBER
2.3.3.2

MAP NUMBER
49035C0437H

MAP REVISED



FLOOD HAZARD INFORMATION

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SCALE

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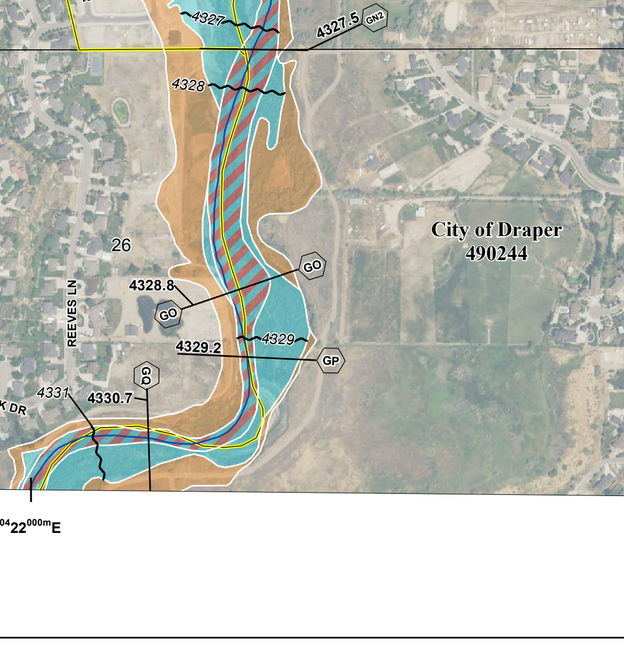
North American Datum 1983 UTM Zone 12 North;
Western Hemisphere; Vertical Datum: NAVD 88

1 inch = 500 feet 1:6,000

0 500 1,000 2,000 Feet

0 125 250 500 Meters

PANEL LOCATOR



* PANEL NOT PRINTED

NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP

SALT LAKE COUNTY, UTAH
and Incorporated Areas

PANEL 441 OF 625

FEMA

Panel Contains:

COMMUNITY	NUMBER	PANEL	SUFFIX
DRAPER, CITY OF	490244	0441	H
RIVERTON, CITY OF	490104	0441	H
SOUTH JORDAN, CITY OF	490107	0441	H

PRELIMINARY
JULY 12, 2019

VERSION NUMBER
2.3.3.2

MAP NUMBER
40935C0441H

MAP REVISED

APPENDIX C

SUBBASIN PARAMETERS

Subbasin ID	Time of Concentration (min)	Existing Impervious	Future Impervious	Area (acres)	Existing Conditions CN Value	Future Conditions CN Value
HC100	25.75	4%	70%	67.3	59.1	60
HC110	55.00	0%	48%	53.3	60	60
HC120	65.00	0%	2%	49.5	57.9	57.9
HC130	95.00	0%	59%	85.7	62.9	60
HC140	85.00	0%	38%	120.3	61.6	60
HC150	24.85	5%	34%	49.3	59.1	60
HC160	130.00	0%	10%	113.4	61.8	60
HC170	135.00	0%	15%	64.4	50.9	60
HC180	85.00	4%	11%	88.2	63.9	60
HC190	60.00	2%	15%	29.4	55.9	60
MI100	25.90	18%	18%	71.9	60	60
MI1000	25.94	15%	25%	64.7	60	60
MI1060	21.56	18%	18%	61.0	60	60
MI1090	85.00	0%	5%	338.4	63.8	63.8
MI110	22.56	19%	19%	47.8	60	60
MI1100	145.00	0%	0%	1387.5	59.6	59.6
MI1110	130.00	0%	0%	3041.6	53.5	53.5
MI1140	29.74	13%	22%	216.0	60	60
MI1150	175.00	0%	12%	414.0	61.7	60
MI1160	135.00	0%	1%	821.3	62.1	62.1
MI1170	85.00	0%	14%	209.6	64.4	60
MI1180	30.70	12%	20%	101.3	60	60
MI1190	90.00	2%	15%	108.7	62.7	60
MI120	20.43	23%	23%	26.9	60	60
MI130	24.97	17%	21%	106.8	60	60
MI140	23.30	19%	19%	51.2	60	60
MI150	24.89	22%	22%	102.0	60	60
MI160	29.82	20%	20%	145.5	60	60
MI170	20.66	49%	50%	19.0	60	60
MI180	29.12	14%	20%	351.5	60	60
MI190	21.40	18%	20%	33.9	60	60
MI200	21.31	27%	28%	35.2	60	60
MI210	28.46	27%	28%	194.6	60	60
MI220	31.49	23%	23%	139.1	60	60
MI230	29.91	28%	28%	91.9	60	60
MI240	20.48	20%	20%	9.5	60	60
MI250	22.24	21%	21%	21.2	60	60
MI260	24.57	22%	22%	60.7	60	60
MI270	23.84	38%	38%	62.2	60	60
MI280	21.52	20%	20%	14.1	60	60
MI290	25.21	16%	21%	72.5	60	60
MI300	21.95	18%	18%	18.7	60	60
MI310	21.92	20%	20%	30.7	60	60

ID	Time of Concentration (min)	Existing Impervious	Future Impervious	Area (acres)	Existing Condition CN Value	Future Conditions CN Value
MI320	27.50	19%	19%	99.7	60	60
MI330	26.10	22%	22%	56.8	60	60
MI340	21.11	20%	20%	24.6	60	60
MI350	23.29	20%	20%	48.1	60	60
MI360	30.27	18%	21%	243.0	60	60
MI370	26.67	30%	30%	93.8	60	60
MI380	24.10	20%	20%	36.3	60	60
MI390	28.47	82%	82%	128.0	60	60
MI400	24.00	55%	55%	113.9	60	60
MI410	21.45	30%	30%	17.9	60	60
MI420	24.33	98%	98%	12.5	60	60
MI430	27.04	96%	97%	17.6	60	60
MI440	26.37	47%	48%	63.0	60	60
MI450	23.89	23%	23%	45.9	60	60
MI460	28.21	19%	19%	85.6	60	60
MI470	25.20	18%	18%	63.9	60	60
MI480	28.73	18%	20%	71.3	60	60
MI490	24.93	14%	14%	36.7	60	60
MI500	20.32	11%	42%	14.3	60	60
MI510	21.78	8%	20%	36.7	64.3	60
MI520	23.54	16%	16%	29.4	60	60
MI530	22.97	36%	35%	44.0	60	60
MI540	24.17	16%	16%	85.4	60	60
MI550	26.44	12%	13%	105.6	60	60
MI570	24.83	2%	20%	57.8	67.8	60
MI580	25.16	20%	20%	53.3	60	60
MI590	24.35	17%	17%	49.7	60	60
MI600	21.30	20%	20%	13.4	60	60
MI610	20.12	20%	20%	7.0	60	60
MI620	25.09	11%	73%	71.4	60	60
MI630	23.01	46%	46%	56.1	60	60
MI640	25.80	48%	48%	57.4	60	60
MI650	32.05	50%	73%	108.9	60	60
MI660	55.00	0%	85%	25.0	51.1	60
MI670	65.00	0%	47%	28.8	56.8	60
MI680	155.00	0%	50%	365.5	56.5	60
MI720	24.11	36%	44%	89.3	60	60
MI740	23.59	30%	78%	42.4	60	60
MI750	23.63	38%	54%	41.3	60	60
MI760	28.84	72%	75%	89.3	60	60
MI770	24.54	17%	17%	51.7	60	60
MI780	25.11	30%	30%	74.7	60	60
MI790	24.99	38%	39%	109.1	60	60
MI800	160.00	0%	0%	675.7	62.7	62.7

ID	Time of Concentration (min)	Existing Impervious	Future Impervious	Area (acres)	Existing Condition CN Value	Future Conditions CN Value
MI810	105.00	0%	0%	91.8	66.2	66.2
MI820	95.00	0%	42%	465.5	57.8	60
MI830	105.00	0%	54%	465.6	58.7	60
MI840	26.89	62%	71%	78.9	60	60
MI850	26.07	38%	59%	82.3	60	60
MI860	22.03	20%	99%	22.9	60	60
MI870	41.30	19%	97%	91.7	60	60
MI880	47.98	9%	36%	1725.6	54.6	60
MI890	50.00	0%	0%	468.8	64.3	64.3
MI900	20.76	52%	52%	14.4	60	60
MI910	20.51	40%	42%	23.9	60	60
MI920	21.31	34%	34%	17.2	60	60
MI930	21.92	2%	77%	18.8	60.1	60
MI940	23.76	18%	20%	42.6	60	60
MI950	31.74	14%	19%	186.4	60	60
MI960	34.71	10%	20%	200.5	62.7	60
MI970	31.55	23%	30%	90.4	60	60
MI980	34.88	28%	30%	270.2	60	60
MI990	95.00	1%	14%	144.4	59.1	60
OH100	25.00	0%	35%	39.5	52	60
OH110	110.00	0%	21%	158.3	48.8	60
OH120	135.00	0%	38%	335.7	58.7	60
OH130	175.00	0%	60%	344.5	61.3	60
OH140	140.00	0%	33%	131.4	62.7	60
PRC_MI100	58.14	26%	34%	2645.7	60	60
SJC_MI110	25.59	28%	62%	79.1	60	60
SJC_MI120	25.93	31%	31%	77.9	60	60
SJC_MI125	21.49	20%	20%	18.9	60	60
SJC_MI130	28.04	19%	19%	106.5	60	60
SJC_MI140	20.78	44%	44%	14.2	60	60
SJC_MI150	22.71	37%	37%	27.6	60	60
SJC_MI160	23.72	25%	25%	52.4	60	60
SJC_MI170	25.28	20%	20%	87.5	60	60
SJC_MI180	25.31	24%	24%	65.9	60	60
Sub-01	10.80	51%	51%	5.1	60	60
Sub-02	10.80	30%	30%	17.0	60	60
Sub-03	18.60	73%	73%	2.6	60	60
Sub-04	19.20	16%	16%	17.4	60	60
ULDC_MI290	23.49	20%	20%	41.7	60	60
ULDC_MI300	23.81	33%	33%	77.1	60	60
ULDC_MI310	20.76	79%	79%	4.4	60	60
ULDC_MI320	21.42	53%	53%	15.4	60	60
ULDC_MI330	21.89	28%	28%	29.6	60	60
ULDC_MI350	26.95	20%	20%	93.2	60	60

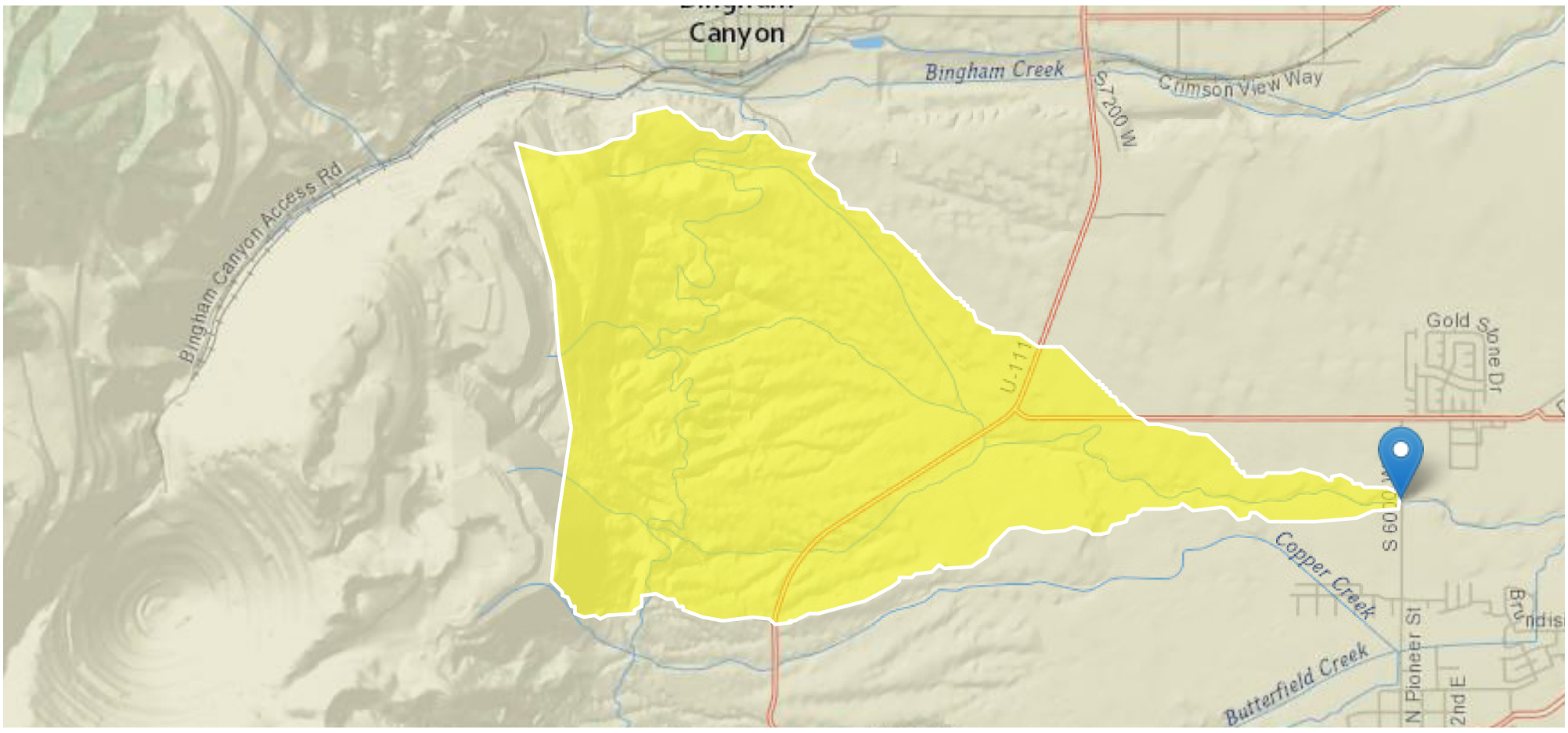
ID	Time of Concentration (min)	Existing Impervious	Future Impervious	Area (acres)	Existing Condition CN Value	Future Conditions CN Value
ULDC_MI360	24.82	14%	14%	60.5	60	60
ULDC_MI370	24.01	21%	21%	63.4	60	60
ULDC_MI380	21.15	33%	33%	15.3	60	60
ULDC_MI390	21.15	87%	87%	4.5	60	60
ULDC_MI400	20.53	93%	93%	3.9	60	60
USLC_M290	23.16	20%	20%	40.6	60	60
USLC_MI100	26.25	20%	20%	133.7	60	60
USLC_MI110	22.48	20%	20%	20.9	60	60
USLC_MI120	30.10	19%	19%	91.7	60	60
USLC_MI130	26.22	20%	20%	70.4	60	60
USLC_MI140	25.09	21%	21%	32.7	60	60
USLC_MI150	27.01	23%	23%	59.9	60	60
USLC_MI160	22.81	20%	20%	34.1	60	60
USLC_MI170	23.50	21%	21%	24.8	60	60
USLC_MI180	25.87	24%	24%	55.4	60	60
USLC_MI190	24.54	36%	36%	32.0	60	60
USLC_MI200	24.04	84%	84%	50.8	60	60
USLC_MI210	66.17	36%	56%	911.9	60	60
USLC_MI220	27.54	39%	39%	125.1	60	60
USLC_MI221	21.20	43%	43%	11.2	60	60
USLC_MI230	24.72	25%	25%	78.9	60	60
USLC_MI240	28.00	20%	20%	116.0	60	60
USLC_MI250	28.07	20%	20%	219.8	60	60
USLC_MI260	23.23	22%	22%	38.9	60	60
USLC_MI270	24.84	24%	24%	61.3	60	60
USLC_MI280	26.11	71%	71%	99.7	60	60

APPENDIX D

STREAMSTATS REPORT

StreamStats Report

Region ID: UT
Workspace ID: UT20201113231108583000
Clicked Point (Latitude, Longitude): 40.53096, -112.03308
Time: 2020-11-13 16:11:22 -0700



Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	5.57	square miles
PRECIP	Mean Annual Precipitation	17.7	inches
BSLDEM10M	Mean basin slope computed from 10 m DEM	11.8	percent
ELEV	Mean Basin Elevation	5460	feet

General Disclaimers

This watershed has been edited, computed flows may not apply.

Peak-Flow Statistics Parameters[Region 2]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	5.57	square miles	2.14	84.1
PRECIP	Mean Annual Precipitation	17.7	inches	16.5	53.7

Peak-Flow Statistics Flow Report[Region 2]

PII: Prediction Interval-Lower, PIu: Prediction Interval-Upper, SEp: Standard Error of Prediction, SE: Standard Error (other -- see report)

Statistic	Value	Unit	SE	SEp	Equiv. Yrs.
2 Year Peak Flood	8.86	ft^3/s	71	71	0.9
5 Year Peak Flood	17.7	ft^3/s	58	58	1.6
10 Year Peak Flood	25.2	ft^3/s	53	53	2.5
25 Year Peak Flood	34.3	ft^3/s	51	51	3.7

Statistic	Value	Unit	SE	SEp	Equiv. Yrs.
50 Year Peak Flood	44	ft^3/s	50	50	4.6
100 Year Peak Flood	52.9	ft^3/s	50	50	5.4
200 Year Peak Flood	62.7	ft^3/s	51	51	6.1
500 Year Peak Flood	79	ft^3/s	52	52	6.8

Peak-Flow Statistics Citations

Kenney, T.A., Wilkowske, C.D., and Wright, S.J.,2007, Methods for Estimating Magnitude and Frequency of Peak Flows for Natural Streams in Utah: U.S. Geological Survey Scientific Investigations Report 2007-5158, 28 p. (http://pubs.usgs.gov/sir/2007/5158/)

USGS Data Disclaimer: Unless otherwise stated, all data, metadata and related materials are considered to satisfy the quality standards relative to the purpose for which the data were collected. Although these data and associated metadata have been reviewed for accuracy and completeness and approved for release by the U.S. Geological Survey (USGS), no warranty expressed or implied is made regarding the display or utility of the data for other purposes, nor on all computer systems, nor shall the act of distribution constitute any such warranty.

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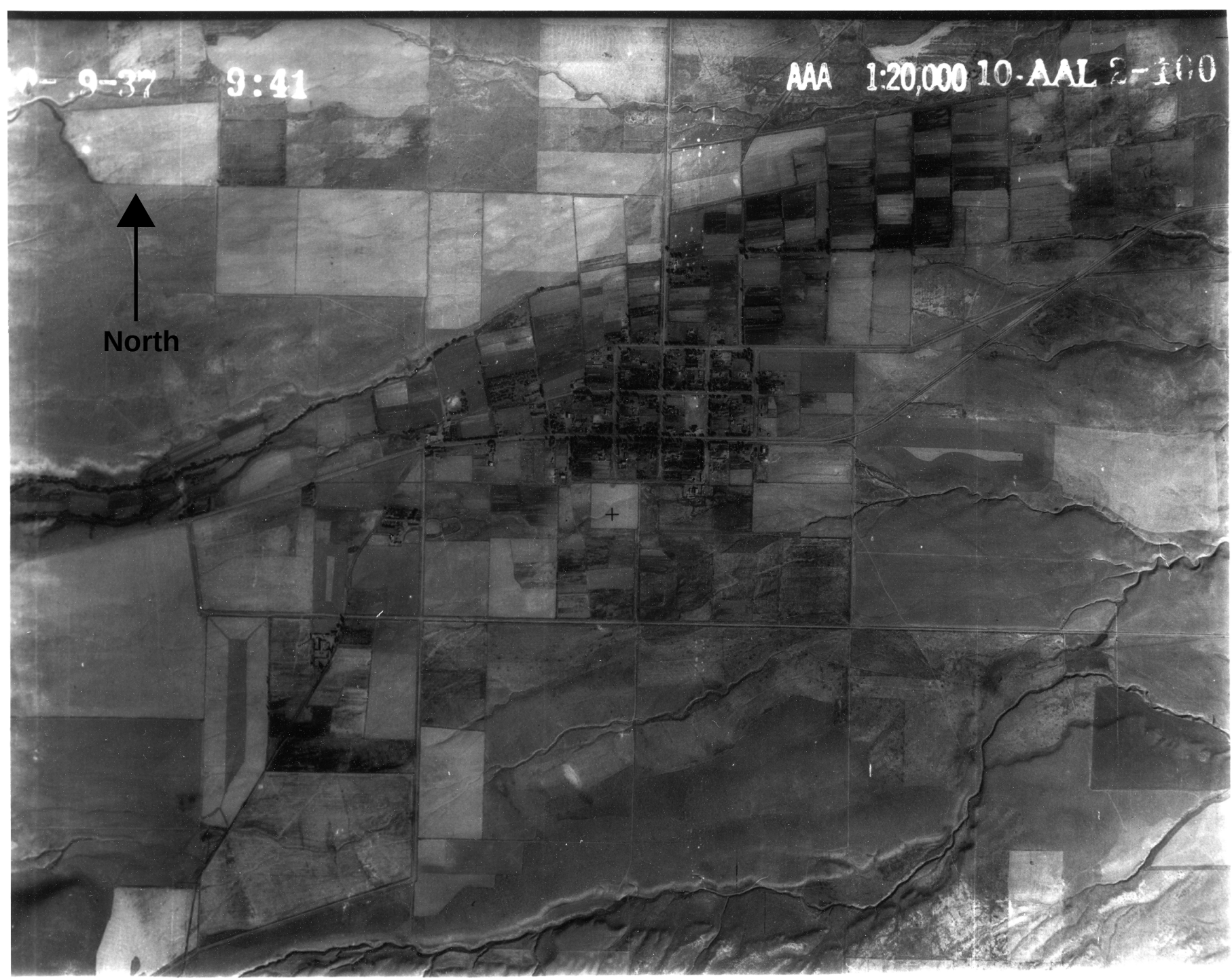
Application Version: 4.4.0

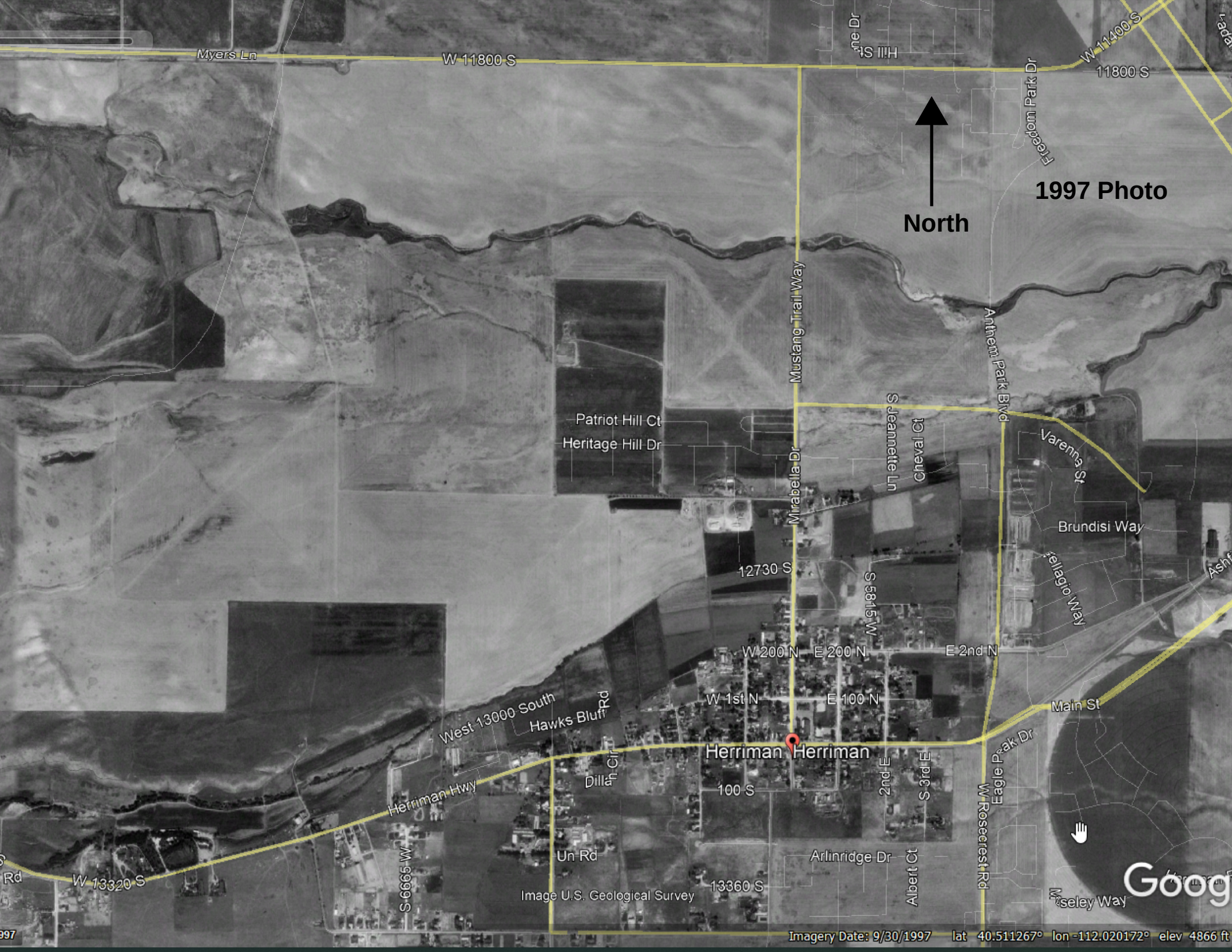
APPENDIX E

HISTORIC AERIAL PHOTOS


9-37 9:41
AAA 1:20,000 10-AAL 2-100
North

7-29-40
COI- 1- 54
North

SEC 35 T-3-S R-2-W
7.29"
DIA 4.12
UAgI 6014 152,81
5- 4-85 S.L. COUNTY
1: 9600
5- 22
North
6400 West
26.55" 13400 South


1997 Photo
North
Myers Ln
W 11800 S
11800 S
W 11400 S
Freedom Park Dr
Mustang Trail Way
Anthem Park Blvd
Patriot Hill Ct
Heritage Hill Dr
Mirabella Dr
S Jeanette Ln
Cheval Ct
Varenna St
Brundisi Way
Bellagio Way
12730 S
S 5815 W
W 200 N
E 200 N
E 2nd N
W 1st N
E 100 N
Main St
West 13000 South
Hawks Bluff Rd
Herriman
Herriman
100 S
2nd E
S 3rd E
Dillan Cir
Herriman Hwy
Eagle Park Dr
W Rosecrest Rd
Arlinridge Dr
Albert Ct
W 13320 S
S 6665 W
13360 S
Image U.S. Geological Survey
Imagery Date: 9/30/1997 lat 40.511267° lon -112.020172° elev 4866 ft

APPENDIX F
COST ESTIMATES

Table F-1: Cost Comparison for Alternative Improvements on Midas Creek

Improvement ID	Project Improvement	Alternative 1 - Existing Conditions/ Development Retains	Alternative 2 - Future Development Detains to 0.2 cfs/ac	Alternative 3 - Future Development Detains to 0.02 cfs/ac	Alternative 4 - Future Development Detains to 0.1 cfs/ac	Alternative 5 - Construct Regional Detention Basin	Alternative 6 - Construct a Large Storm Drain Pipe Along 114th South
1	7000 West Farm Bridge	$ 120,000.00	$ 120,000.00	$ 120,000.00	$ 120,000.00	$ 120,000.00	-
2	Black Powder Dr.	-	$ 500,000.00	-	-	-	-
3	Swensen Farms Dr.	-	$ 490,000.00	-	-	-	-
4	Welby Jacob Canal	$ 510,000.00	$ 510,000.00	$ 510,000.00	$ 510,000.00	$ 510,000.00	-
5	80 LF of Bank Upstream of 4000 West	-	$ 21,000.00	-	-	-	-
6	390 LF of Right Bank upstream of 3600 West	-	$ 23,000.00	$ 23,000.00	$ 23,000.00	-	-
7	250 LF of Left Bank Upstream of 3600 West	$ 24,000.00	$ 24,000.00	$ 24,000.00	$ 24,000.00	$ 24,000.00	-
8	3600 West	$ 570,000.00	$ 570,000.00	$ 570,000.00	$ 570,000.00	$ 570,000.00	-
9	Janice Dr./3400 West	-	$ 630,000.00	-	-	-	-
10	Midas Mini Park Outlet Structure Changes	-	$ 4,000.00	$ 4,000.00	$ 4,000.00	-	-
11	200 LF of Bank Downstream of 118th South	-	$ 21,000.00	-	-	-	-
12	130 LF of Left Bank Upstream of 3200 West	-	$ 25,000.00	-	$ 25,000.00	-	-
13	3200 West	-	$ 550,000.00	-	-	-	-
14	80 LF of Left Bank upstream of 2700 West	-	$ 21,000.00	-	-	-	-
15	110 LF of Right Bank upstream of 2700 West	-	$ 23,000.00	-	$ 23,000.00	-	-
16	2700 West	-	$ 1,260,000.00	-	-	-	-
17	2,280 LF of Uncertifiable Levee along Midas Side Way and 11625 S	$ 29,000.00	$ 29,000.00	$ 29,000.00	$ 29,000.00	$ 29,000.00	-
18	380 LF of Bank by Diversion Structure at 11686 S Eureka Way Property	$ 34,000.00	$ 34,000.00	$ 34,000.00	$ 34,000.00	$ 34,000.00	-
19	Eureka Way	$ 1,060,000.00	$ 1,060,000.00	$ 1,060,000.00	$ 1,060,000.00	$ 1,060,000.00	-
20	360 LF of Bank Between Eureka Way and Gold Dust Dr.	-	$ 23,000.00	-	-	-	-
21	Gold Dust Dr.	-	$ 870,000.00	-	-	-	-
22	310 LF of Left Bank between Gold Dust Dr. and Winford Dr.	$ 30,000.00	$ 30,000.00	$ 30,000.00	$ 30,000.00	$ 30,000.00	-
23	790 LF of Right Bank between Gold Dust Dr. and Winford Dr.	-	$ 77,000.00	$ 77,000.00	$ 77,000.00	-	-
24	Winford Dr.	-	$ 520,000.00	-	-	-	-
25	750 LF of Right Bank between Winford Dr. and Redwood Rd.	-	$ 27,000.00	-	-	-	-
26	26 LF of Bank Between Winford Dr. and Stafford View Dr.	-	$ 22,000.00	-	$ 22,000.00	-	-
27	Upstream of 1st Private Rd.	$ 21,000.00	$ 21,000.00	$ 21,000.00	$ 21,000.00	$ 21,000.00	-
28	Private Rd. Downstream of Redwood Rd.	$ 950,000.00	$ 950,000.00	$ 950,000.00	$ 950,000.00	$ 950,000.00	-
29	520 LF of Bank Between Private Rds.	-	$ 33,000.00	$ 33,000.00	$ 33,000.00	-	-
30	2nd Private Rd. Downstream of Redwood Rd.	-	$ 440,000.00	-	$ 440,000.00	-	-
31	990 LF of Bank Upstream of South Jordan Canal	$ 140,000.00	$ 140,000.00	$ 140,000.00	$ 140,000.00	$ 140,000.00	-
32	South Jordan Canal	-	$ 560,000.00	-	-	-	-
33	20 LF of Bank Protecting Home at 1357 Midas Point Cv.	-	$ 21,000.00	-	$ 21,000.00	-	-
34	310 LF of Bank upstream of 11500 South Street	$ 60,000.00	$ 60,000.00	$ 60,000.00	$ 60,000.00	$ 60,000.00	-
35	11500 South Street	$ 510,000.00	$ 510,000.00	$ 510,000.00	$ 510,000.00	$ 510,000.00	-
36	260 LF of Bank Between 11500 South Street and 1300 West	$ 61,000.00	$ 61,000.00	$ 61,000.00	$ 61,000.00	$ 61,000.00	-
37	1300 West	$ 570,000.00	$ 570,000.00	$ 570,000.00	$ 570,000.00	$ 570,000.00	-
38	90 LF of Bank along Chapel Ridge Dr.	-	$ 21,000.00	-	$ 21,000.00	-	-
39	60 LF of Bank along Marco Polo Ln.	-	$ 21,000.00	-	-	-	-
40	Park Palisade Dr.	-	$ 480,000.00	-	$ 480,000.00	-	-
41	Dredge Channel Bed Downstream of Park Palisade Dr.	$ 160,000.00	$ 160,000.00	$ 160,000.00	$ 160,000.00	$ 160,000.00	-
42	1,260 LF of Bank in Parkway Palisades Development	$ 120,000.00	-	-	-	$ 120,000.00	-
43	2,960 LF of Bank in Parkway Palisades Development	-	-	$ 270,000.00	-	-	-
44	3,820 LF of Bank in Parkway Palisades Development	-	-	-	$ 353,000.00	-	-
45	4,410 LF of Bank in Parkway Palisades Development	-	$ 417,000.00	-	-	-	-
46	Private Road DS of Park Palisade Dr.	$ 720,000.00	$ 720,000.00	$ 720,000.00	$ 720,000.00	$ 720,000.00	-
47	390 LF of Left bank upstream of Beckstead Ditch	-	$ 27,000.00	$ 27,000.00	$ 27,000.00	-	-
48	Beckstead Ditch Culvert	-	$ 420,000.00	-	-	-	-
49	330 LF of Bank protecting East River Front Park at Jordan River	-	$ 23,000.00	-	$ 23,000.00	-	-
50	85 ac-ft Regional In-line Detention Basin w/ Outfall = 310 cfs	-	-	-	-	$ 8,700,000.00	-
-	Large Diameter Storm Drain Pipe along 11400 South to Jordan River	-	-	-	-	-	$3,0100,000 to $3,810,000
	Total Cost	**$ 5,689,000.00**	**$ 13,139,000.00**	**$ 6,003,000.00**	**$ 7,141,000.00**	**$ 14,389,000.00**	**$3,0100,000 to $3,810,000**

Table F-2: Cost Comparison for Alternative Improvements on Butterfield Creek

Improvement ID	Project Improvement	Alternative 1 - Existing Conditions/ Development Retains	Alternative 2 - Future Development Detains to 0.2 cfs/ac	Alternative 3 - Future Development Detains to 0.02 cfs/ac	Alternative 4 - Future Development Detains to 0.1 cfs/ac	Alternative 5 - Construct Regional Detention Basin
1	Redefining 1,450 LF of channel banks along Bacchus Hwy near Farm Field [1]	$ -	$ -	$ -	$ -	$ -
2	Raise 520 LF of Left Bank Upstream of Culvert 2 2	-	$ 56,400.00	-	-	$ 56,400.00
4	Custome Intake Structure to Herriman Parkway	-	$ 120,000.00	-	$ 120,000.00	$ 120,000.00
5	Replacing 4,700 LF of 5-ft pipe with a 6-ft pipe from 6000 West to Ryeland Ln	-	$ 1,974,000.00	-	$ 1,974,000.00	$ 1,974,000.00
	Total Cost	**$ -**	**$ 2,150,400.00**	**$ -**	**$ 2,094,000.00**	**$ 2,150,400.00**

[1] Redefining channel should be part of future development and paid for by the developer to protect new contstruction

Table F-3: Cost Comparison for Total Alternative Improvements

	Alternative 1 - Existing Conditions/ Development Retains	Alternative 2 - Future Development Detains to 0.2 cfs/ac	Alternative 3 - Future Development Detains to 0.02 cfs/ac	Alternative 4 - Future Development Detains to 0.1 cfs/ac	Alternative 5 - Construct Regional Detention Basin	Alternative 6 - Construct a Large Storm Drain Pipe Along 114th South
Total Midas Creek Improvement Cost:	$ 5,689,000.00	$ 13,139,000.00	$ 6,003,000.00	$ 7,141,000.00	$ 14,389,000.00	$3,0100,000 to $3,810,000
Total Butterfield Creek Improvement Cost:	$ -	$ 2,150,400.00	$ -	$ 2,094,000.00	$ 2,150,400.00	$ -
Total Alternative Improvement Cost:	**$ 5,689,000.00**	**$ 15,289,400.00**	**$ 6,003,000.00**	**$ 9,235,000.00**	**$ 16,539,400.00**	**$3,0100,000 to $3,810,000**

BOWEN COLLINS

& ASSOCIATES