

# RAINBOW VALLEY

## Area Drainage Master Plan

Contract FCD 2006C029

### Technical Data Notebook

### Hydrology Report

### Volume IV



Submitted to



Submitted by

**URS**

in cooperation with

**Dibble**  
Engineering



October 2010

# Rainbow Valley Area Drainage Master Plan:

## Technical Data Notebook (TDN)

### Hydrology Report

Volume 4 of 4

Prepared for:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY



*Exp Date 6-30-11*

Prepared by:

URS CORPORATION



*EXPIRES 9.30.2011*

October 2010



**D.9 FIGURES**

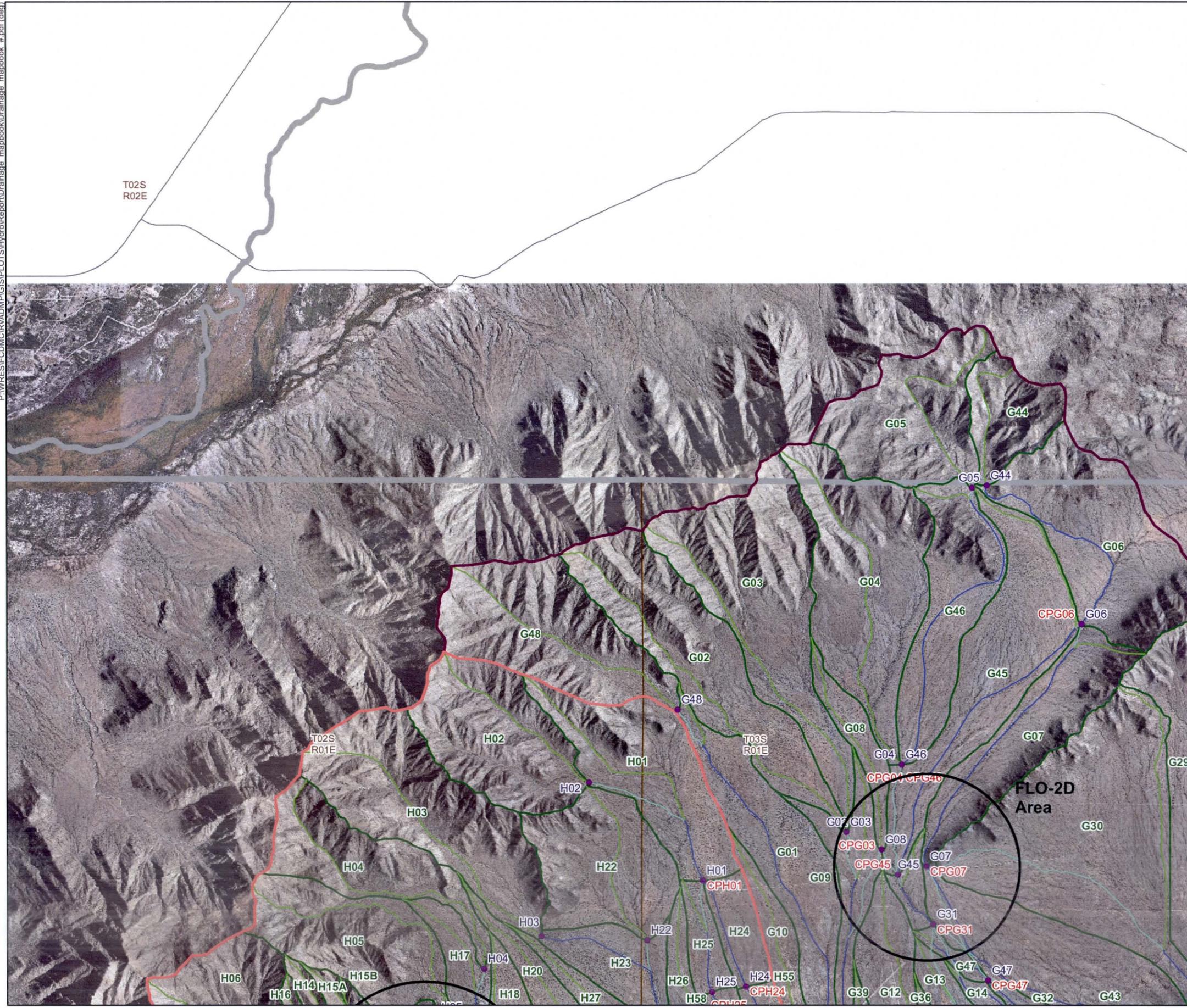


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# Rainbow Valley Area Drainage Master Plan Watershed Boundaries



Figure 2  
Sheet 1 of 10



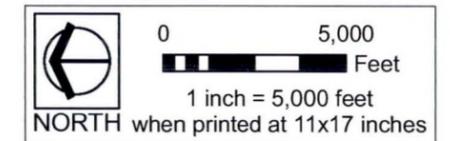
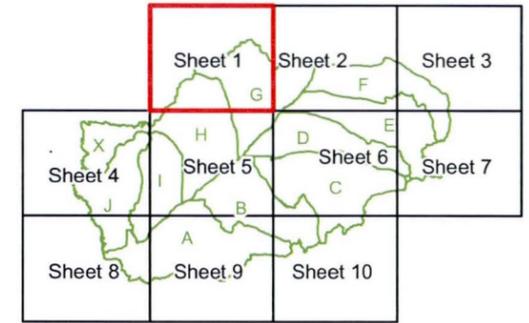
### Project Features

#### Watershed Boundary

- |   |   |   |   |
|---|---|---|---|
| A | D | G | J |
| B | E | H | X |
| C | F | I |   |

- |                                         |                       |
|-----------------------------------------|-----------------------|
| Drainage Subbasin Boundary              | Stream Flow           |
| Routing Reach                           | Time of Concentration |
| Routing Reach and Time of Concentration | Concentration Point   |

- |                            |       |                                  |
|----------------------------|-------|----------------------------------|
| Watershed Name             | A01   | } Concentration Point Identifier |
| A01 Drainage Subbasin Name | CPA01 |                                  |



### Reference Features

- |                              |                             |
|------------------------------|-----------------------------|
| County Boundary              | Interstate Highway/ Freeway |
| Rainbow Valley ADMP Boundary | Major Road                  |
| Township and Range Boundary  |                             |

### Data Sources

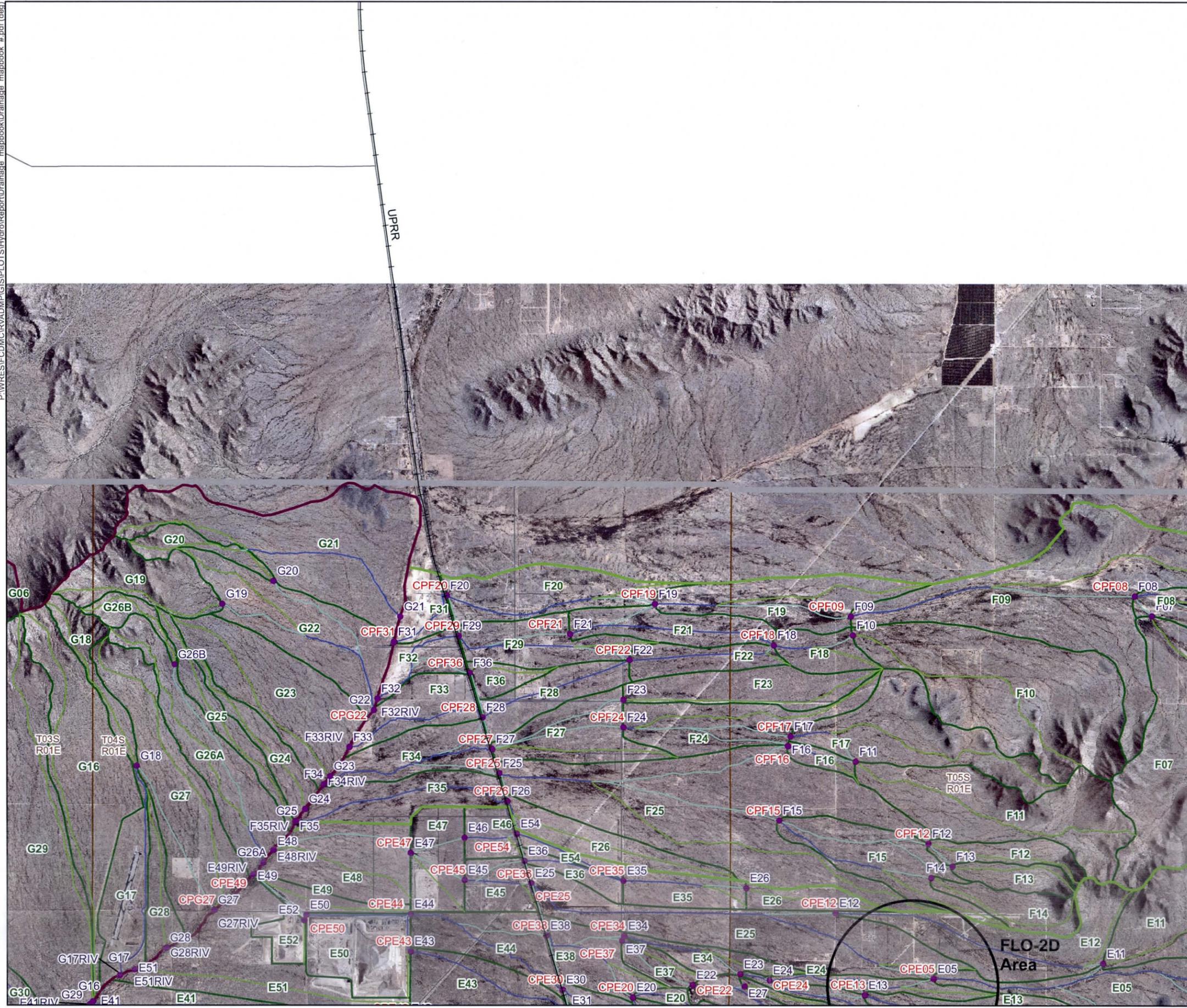
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Base Vector and Hillshade Data, 2008  
URS Corporation  
Modified Land Use Data, 2008

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# Rainbow Valley Area Drainage Master Plan Watershed Boundaries



Figure 2  
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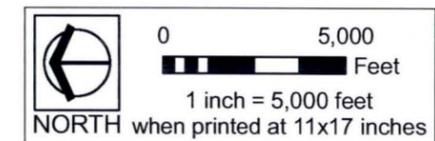
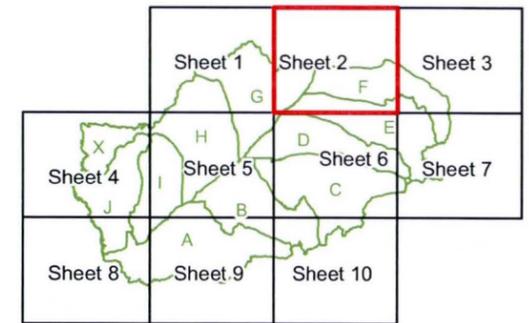
### Project Features

#### Watershed Boundary

- |   |   |   |   |
|---|---|---|---|
| A | D | G | J |
| B | E | H | X |
| C | F | I |   |

- |                                         |                       |
|-----------------------------------------|-----------------------|
| Drainage Subbasin Boundary              | Stream Flow           |
| Routing Reach                           | Time of Concentration |
| Routing Reach and Time of Concentration | Concentration Point   |

- |                            |       |                                  |
|----------------------------|-------|----------------------------------|
| Watershed Name             | A01   | } Concentration Point Identifier |
| A01 Drainage Subbasin Name | CPA01 |                                  |



### Reference Features

- |                              |                             |
|------------------------------|-----------------------------|
| County Boundary              | Interstate Highway/ Freeway |
| Rainbow Valley ADMP Boundary | Major Road                  |
| Township and Range Boundary  |                             |

### Data Sources

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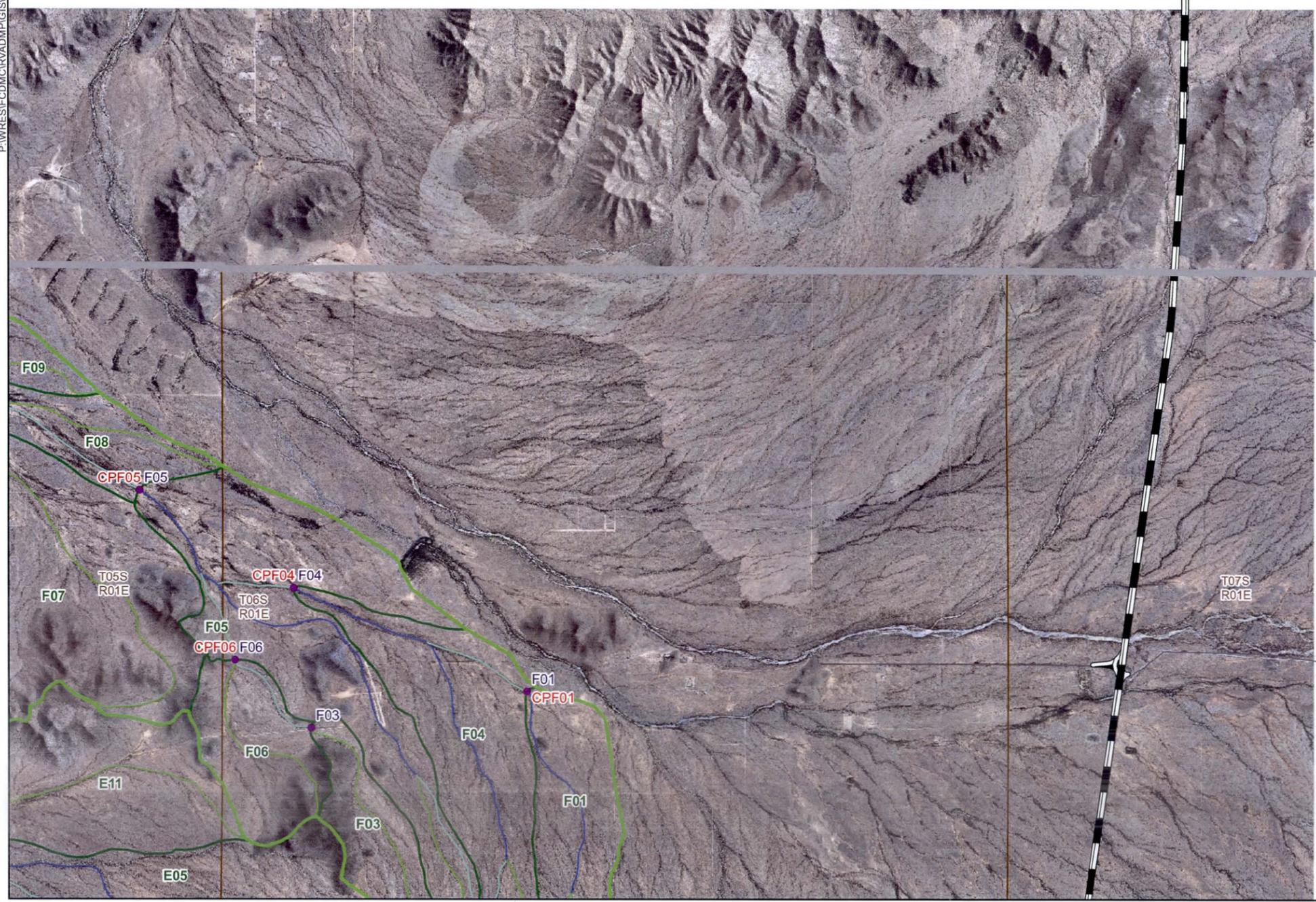
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# Rainbow Valley Area Drainage Master Plan Watershed Boundaries



Figure 2  
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## R02E

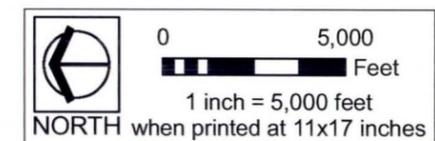
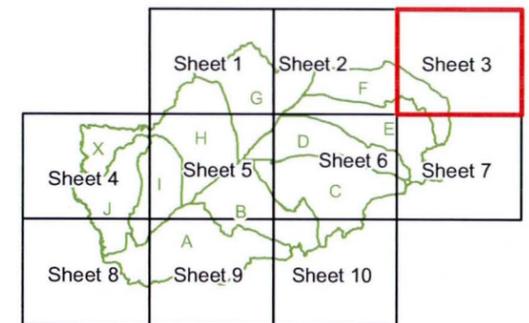


### Project Features

#### Watershed Boundary

- |   |   |   |   |
|---|---|---|---|
| A | D | G | J |
| B | E | H | X |
| C | F | I |   |

- |                                         |                                      |
|-----------------------------------------|--------------------------------------|
| Drainage Subbasin Boundary              | Stream Flow                          |
| Routing Reach                           | Time of Concentration                |
| Routing Reach and Time of Concentration | Concentration Point                  |
| Watershed Name                          | A01 } Concentration Point Identifier |
| A01 Drainage Subbasin Name              | CPA01 }                              |



### Reference Features

- |                              |                             |
|------------------------------|-----------------------------|
| County Boundary              | Interstate Highway/ Freeway |
| Rainbow Valley ADMP Boundary | Major Road                  |
| Township and Range Boundary  |                             |

### Data Sources

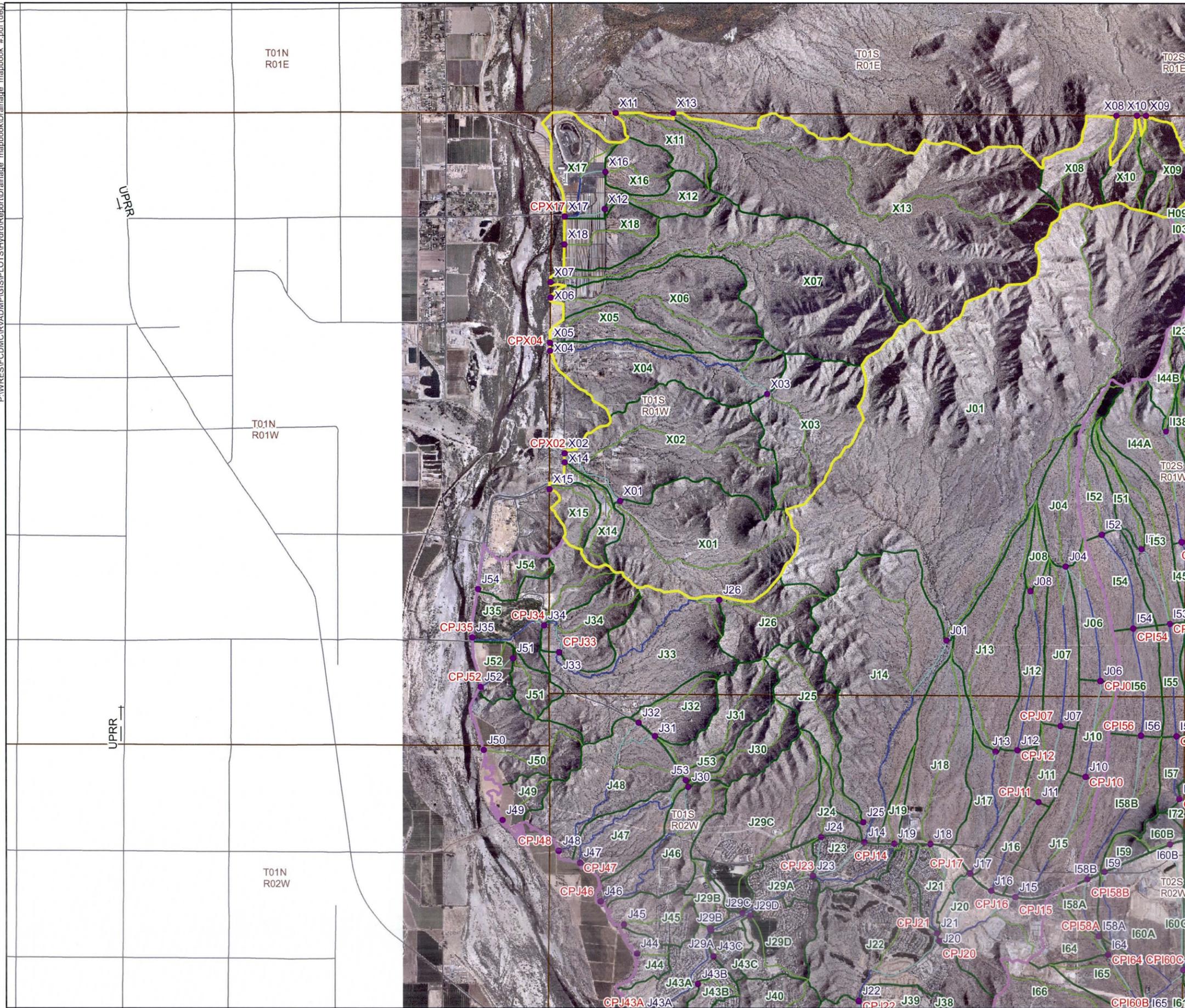
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# Rainbow Valley Area Drainage Master Plan Watershed Boundaries



Figure 2  
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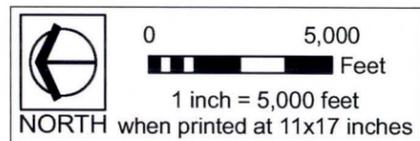
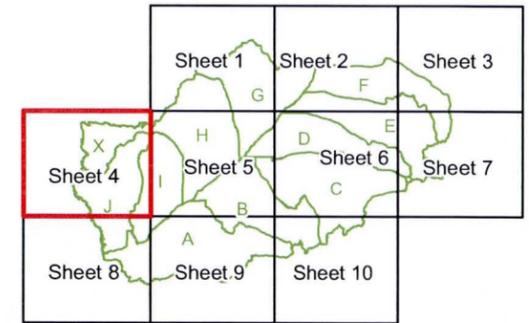
### Project Features

#### Watershed Boundary

	A		D		G		J
	B		E		H		X
	C		F		I		

	Drainage Subbasin Boundary		Stream Flow
	Routing Reach		Time of Concentration
	Routing Reach and Time of Concentration		Concentration Point

	Watershed Name	A01	} Concentration Point Identifier
	Drainage Subbasin Name	CPA01	



### Reference Features

	County Boundary		Interstate Highway/ Freeway
	Rainbow Valley ADMP Boundary		Major Road
	Township and Range Boundary		

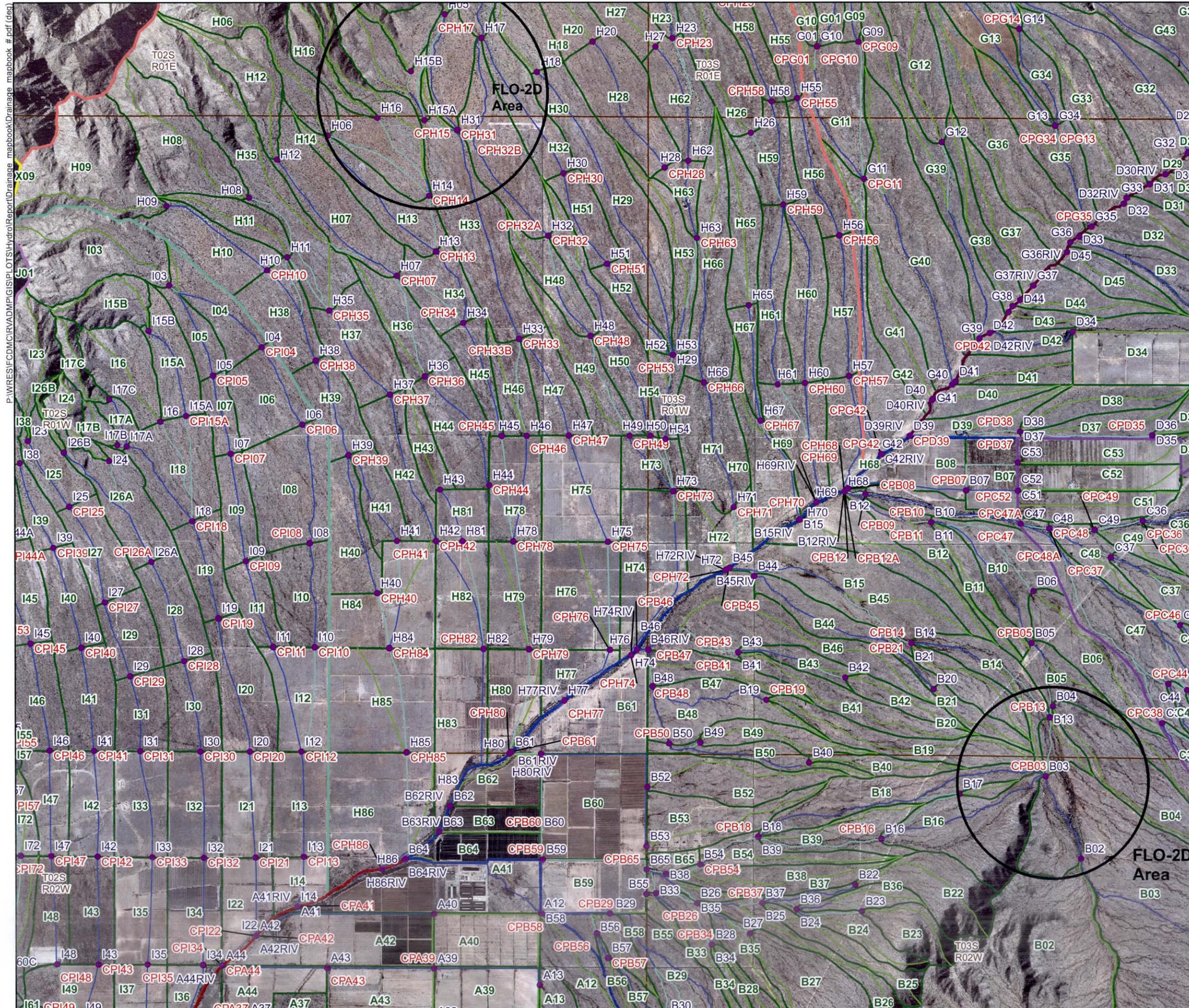
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# Rainbow Valley Area Drainage Master Plan Watershed Boundaries



Figure 2  
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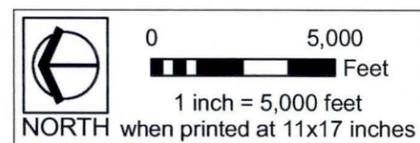
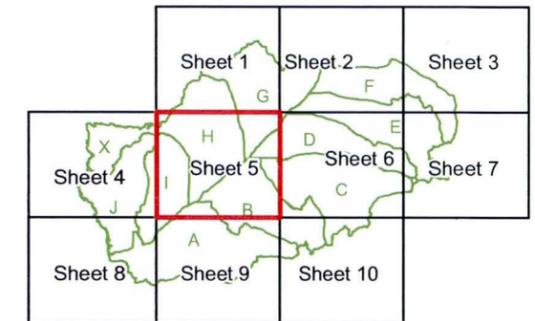
### Project Features

#### Watershed Boundary

	A		D		G		J
	B		E		H		X
	C		F		I		

	Drainage Subbasin Boundary		Stream Flow
	Routing Reach		Time of Concentration
	Routing Reach and Time of Concentration		Concentration Point

	Watershed Name	A01	} Concentration Point Identifier
	Drainage Subbasin Name	CPA01	



### Reference Features

	County Boundary		Interstate Highway/ Freeway
	Rainbow Valley ADMP Boundary		Major Road
	Township and Range Boundary		

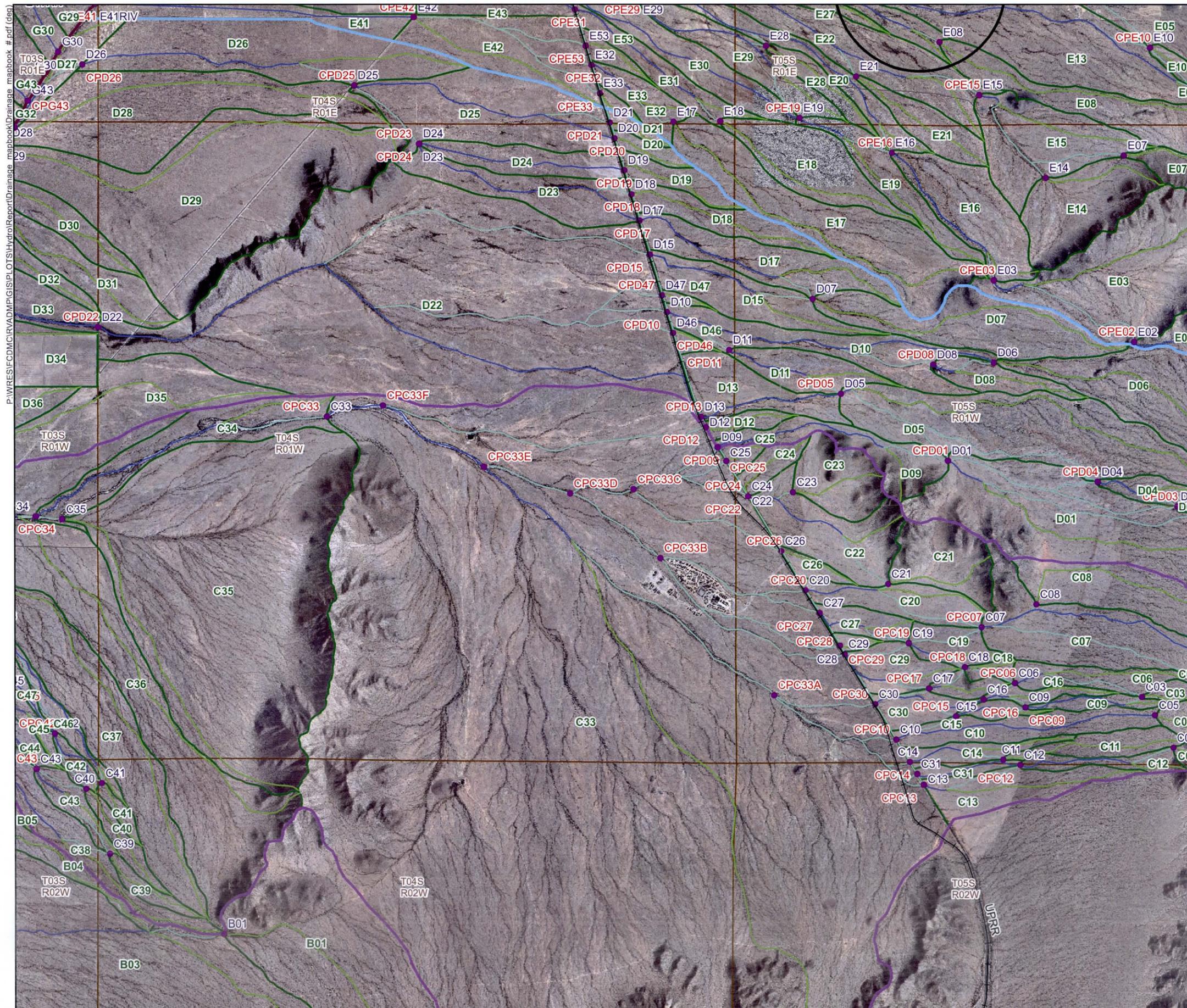
### Data Sources

Flood Control District of Maricopa County  
Base Vector and Hillshade Data, 2008  
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Modified Land Use Data, 2008

Rainbow Valley  
Area Drainage Master Plan  
Watershed Boundaries



Figure 2  
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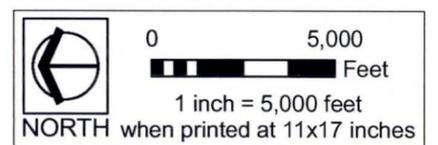
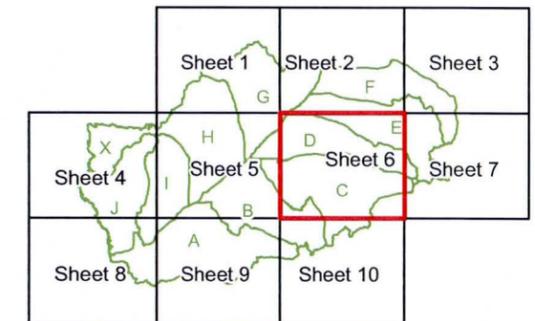
**Project Features**

**Watershed Boundary**

	A		D		G		J
	B		E		H		X
	C		F		I		

	Drainage Subbasin Boundary		Stream Flow
	Routing Reach		Time of Concentration
	Routing Reach and Time of Concentration		Concentration Point

	Watershed Name	A01	} Concentration Point Identifier
A01	Drainage Subbasin Name	CPA01	



**Reference Features**

	County Boundary		Interstate Highway/ Freeway
	Rainbow Valley ADMP Boundary		Major Road
	Township and Range Boundary		

**Data Sources**

Flood Control District of Maricopa County  
Base Vector and Hillshade Data, 2008  
URS Corporation  
Modified Land Use Data, 2008

Rainbow Valley  
Area Drainage Master Plan  
Watershed Boundaries



Figure 2  
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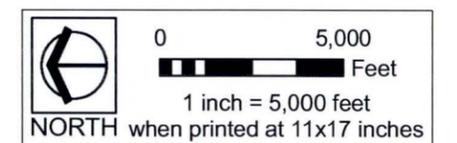
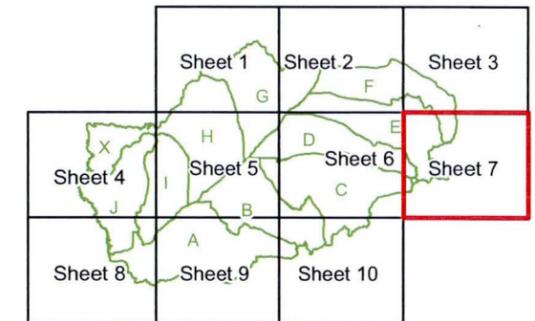
**Project Features**

**Watershed Boundary**

A	D	G	J
B	E	H	X
C	F	I	

Drainage Subbasin Boundary	Stream Flow
Routing Reach	Time of Concentration
Routing Reach and Time of Concentration	Concentration Point

Watershed Name	A01	} Concentration Point Identifier
A01 Drainage Subbasin Name	CPA01	



**Reference Features**

County Boundary	Interstate Highway/ Freeway
Rainbow Valley ADMP Boundary	Major Road
Township and Range Boundary	

**Data Sources**

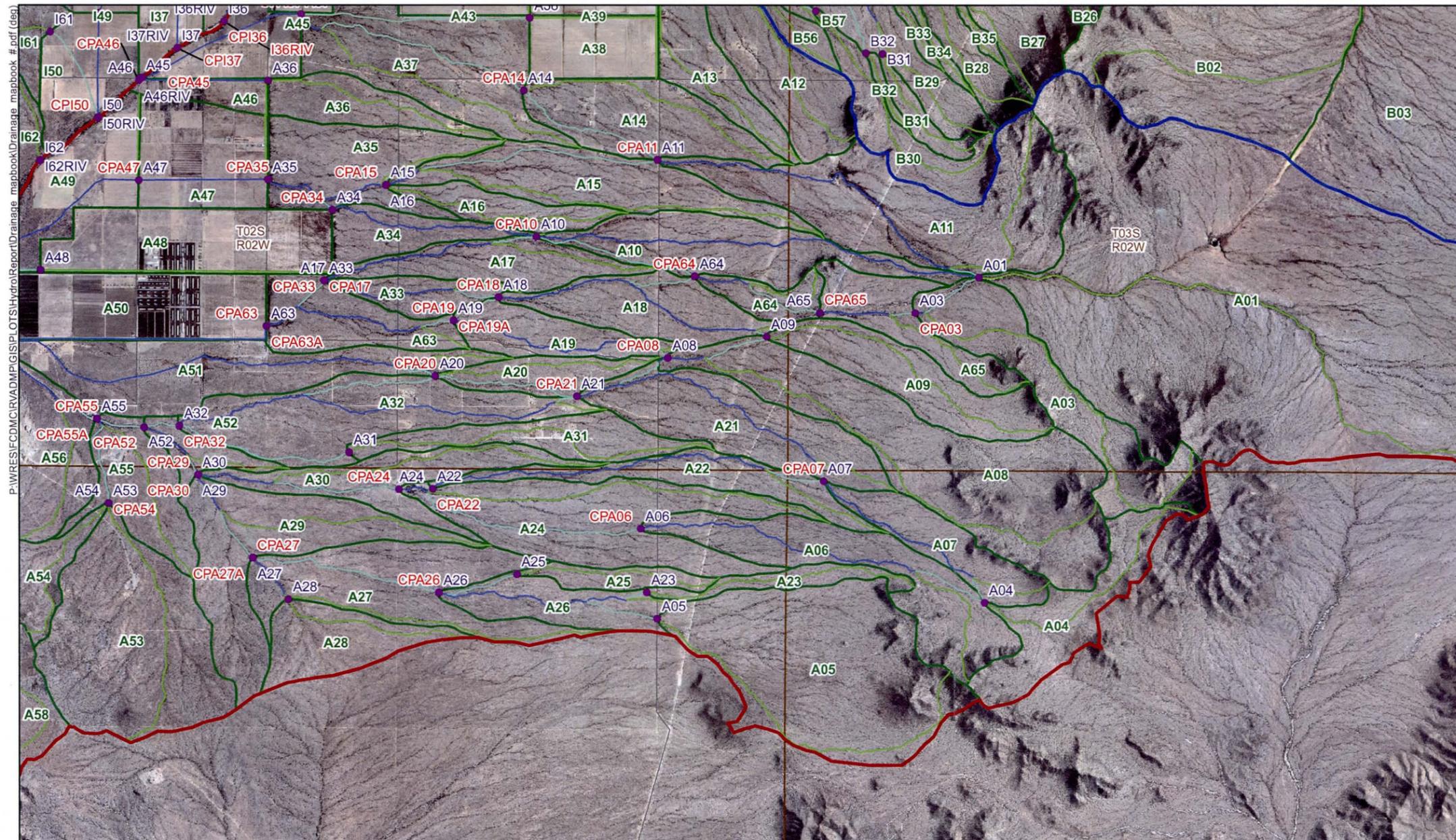
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Modified Land Use Data, 2008



# Rainbow Valley Area Drainage Master Plan Watershed Boundaries



Figure 2  
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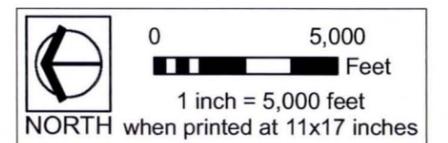
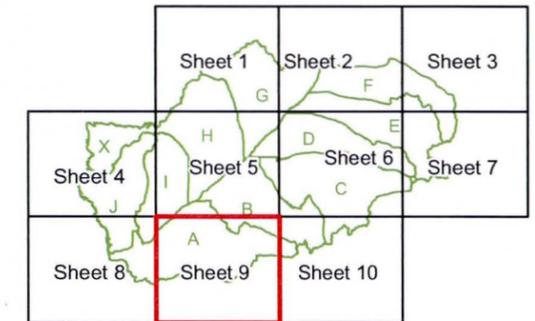


### Project Features

#### Watershed Boundary

	A		D		G		J
	B		E		H		X
	C		F		I		

	Drainage Subbasin Boundary		Stream Flow
	Routing Reach		Time of Concentration
	Routing Reach and Time of Concentration		Concentration Point
	Watershed Name	A01	} Concentration Point Identifier
A01	Drainage Subbasin Name	CPA01	



### Reference Features

	County Boundary		Interstate Highway/ Freeway
	Rainbow Valley ADMP Boundary		Major Road
	Township and Range Boundary		

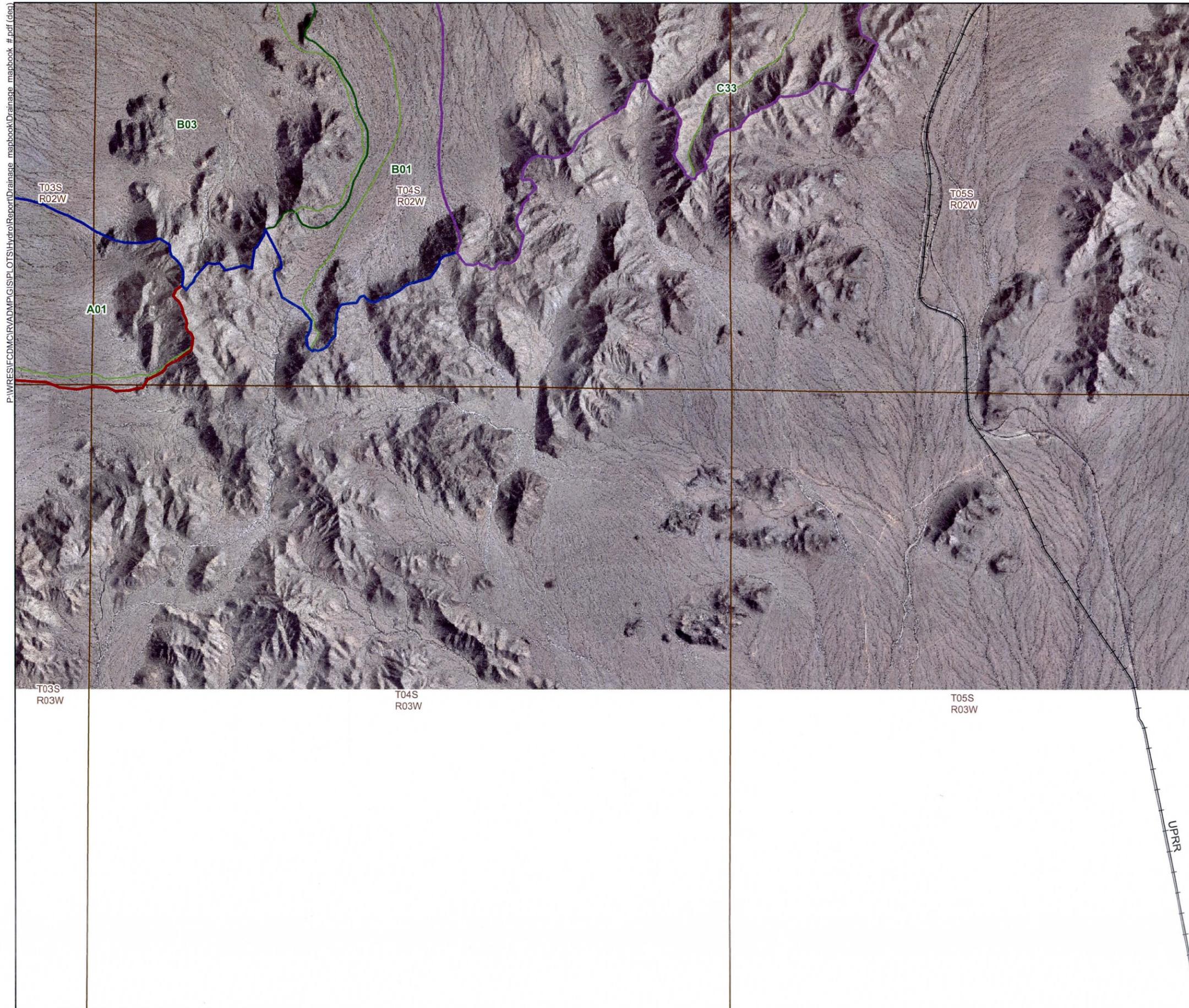
### Data Sources

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Rainbow Valley  
Area Drainage Master Plan  
Watershed Boundaries



Figure 2  
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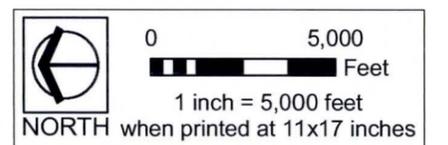
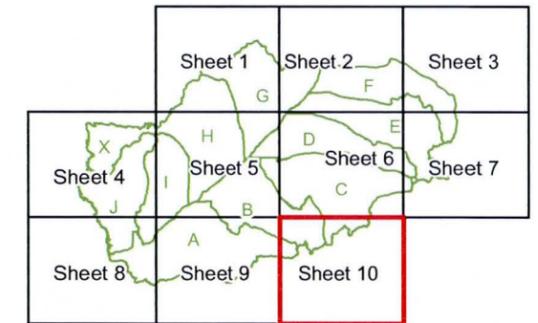
**Project Features**

**Watershed Boundary**

	A		D		G		J
	B		E		H		X
	C		F		I		

	Drainage Subbasin Boundary		Stream Flow
	Routing Reach		Time of Concentration
	Routing Reach and Time of Concentration		Concentration Point

	Watershed Name	A01	} Concentration Point Identifier
	Drainage Subbasin Name	CPA01	



**Reference Features**

	County Boundary		Interstate Highway/ Freeway
	Rainbow Valley ADMP Boundary		Major Road
	Township and Range Boundary		

**Data Sources**

Flood Control District of Maricopa County  
Base Vector and Hillshade Data, 2008  
URS Corporation  
Modified Land Use Data, 2008

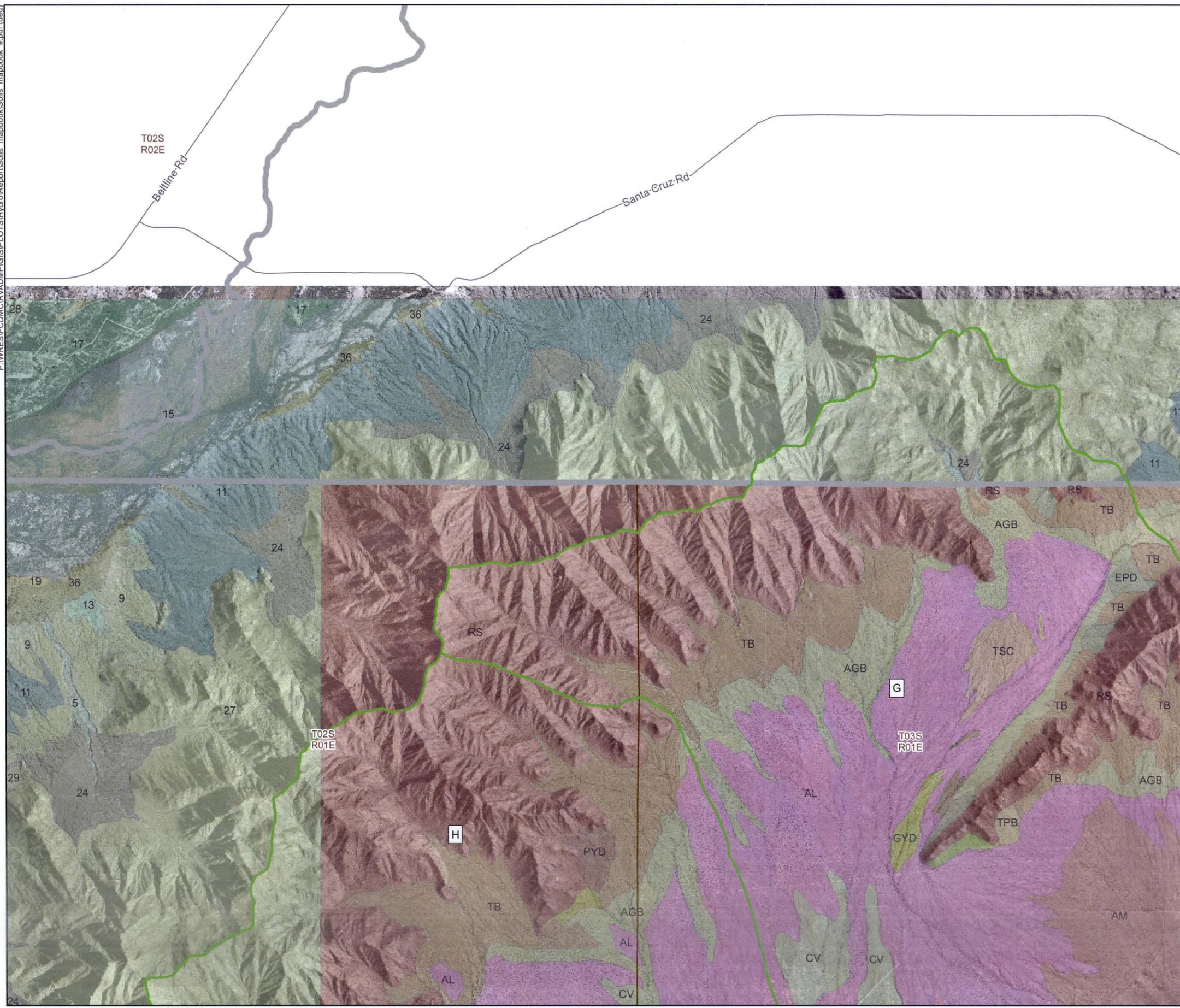
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# Rainbow Valley Area Drainage Master Plan Soil Units



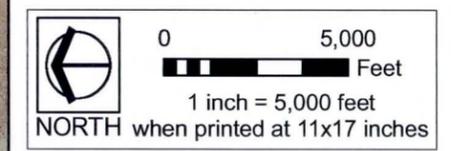
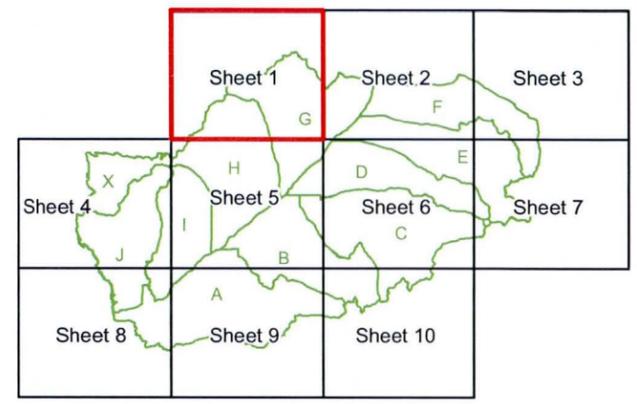
Figure 3A  
Sheet 1 of 10



### Project Features

- Watershed Boundary
- Watershed Name

See Figure 3B, Key to Soils Maps, for detailed soil legend.



### Reference Features

- County Boundary
- Township and Range Boundary
- Interstate Highway/ Freeway
- Major Road
- Railroad

### Data Sources

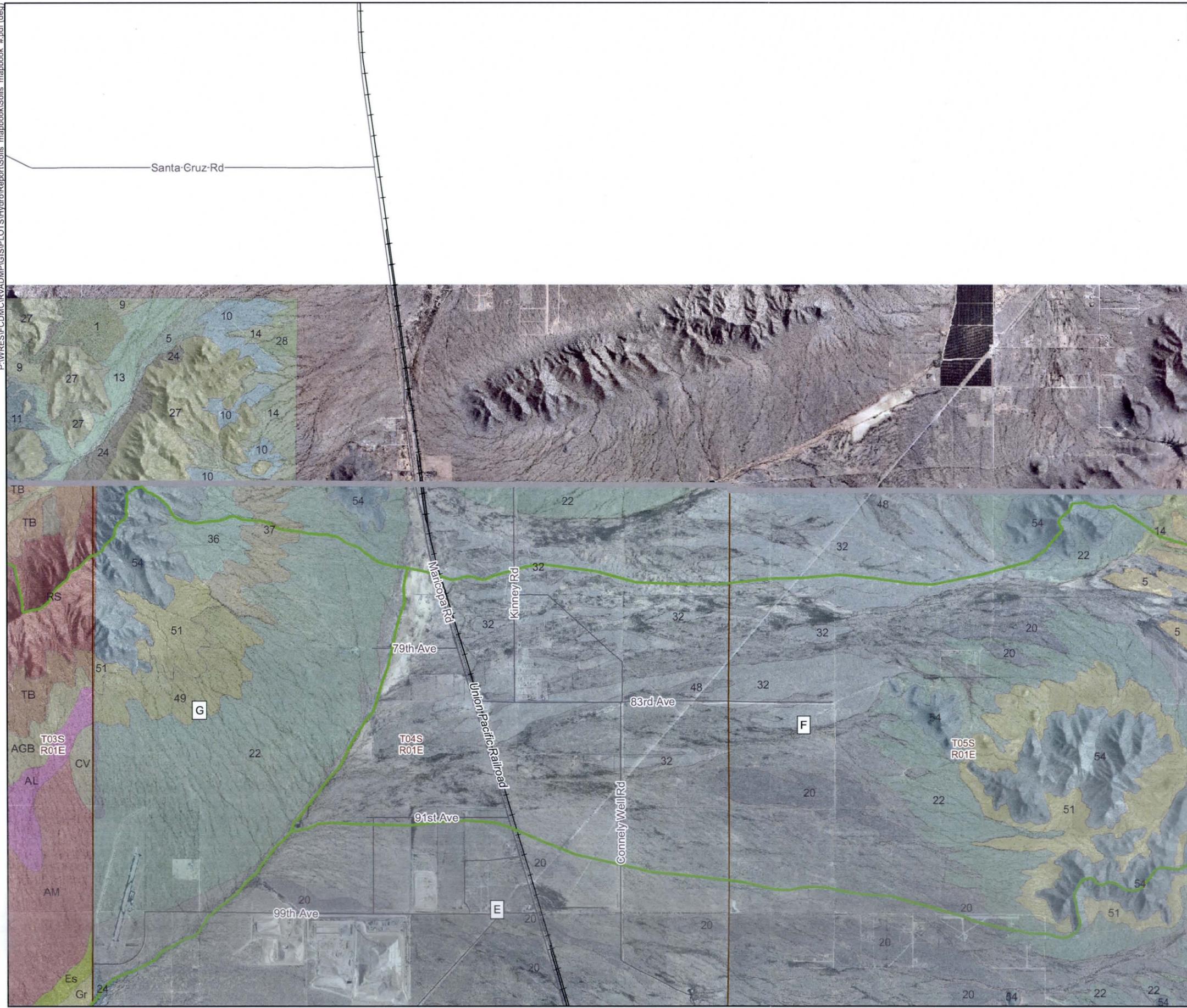
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 MrSid Imagery, 2006-2007  
 Arizona Land Resource Information System  
 Railroad Data, 1994

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# Rainbow Valley Area Drainage Master Plan Soil Units



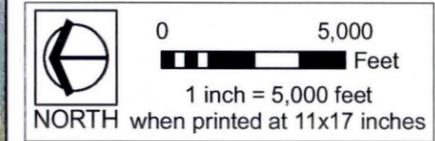
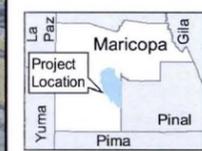
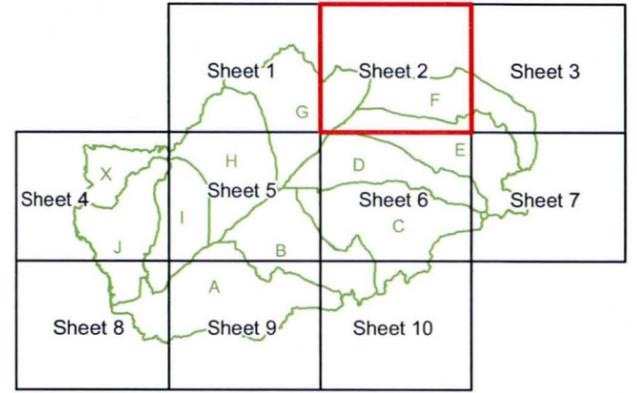
Figure 3A  
Sheet 2 of 10



### Project Features

- Watershed Boundary
- Watershed Name

See Figure 3B, Key to Soils Maps, for detailed soil legend.



### Reference Features

- County Boundary
- Interstate Highway/ Freeway
- Township and Range Boundary
- Major Road
- Railroad

### Data Sources

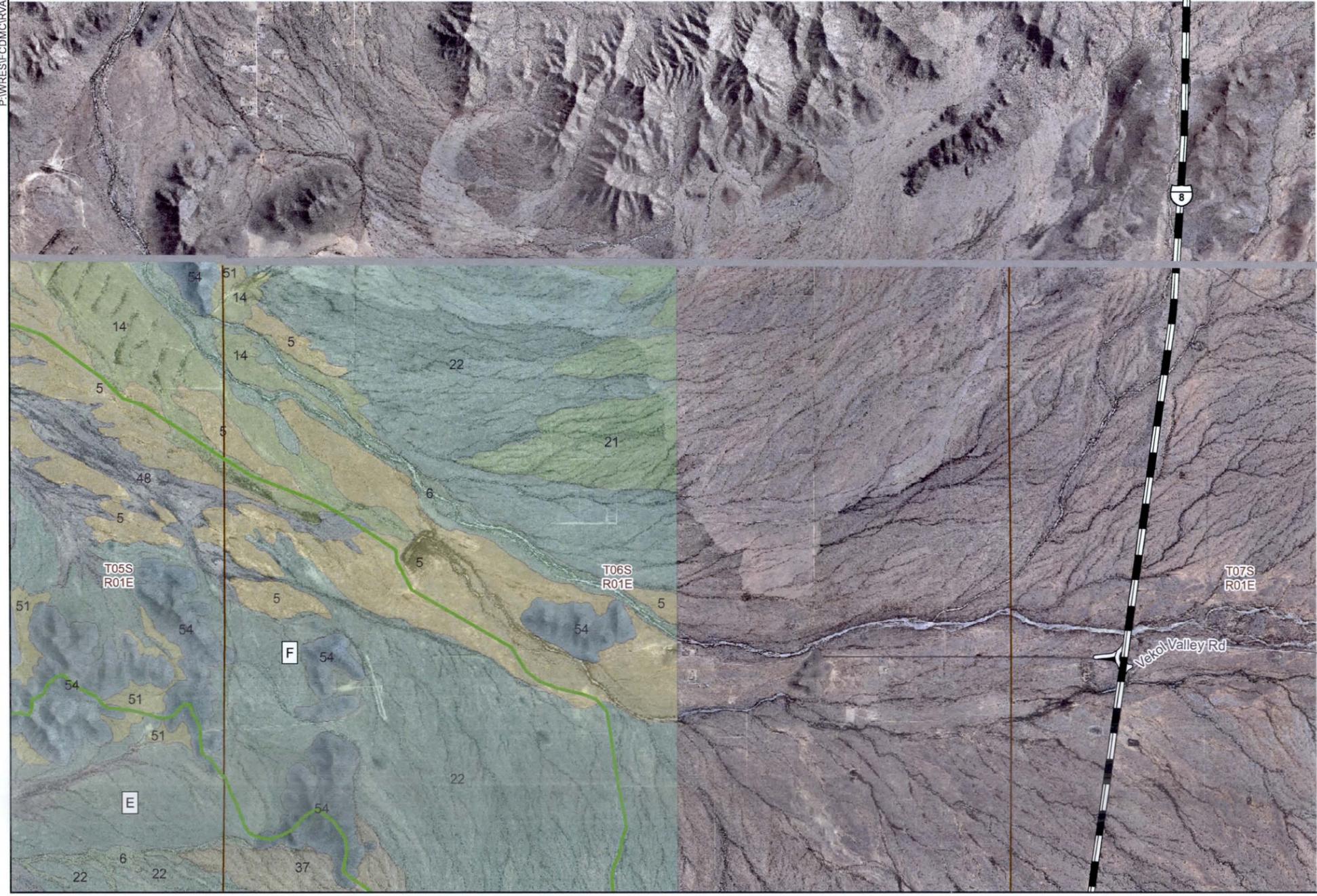
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 MrSid Imagery, 2006-2007  
 Arizona Land Resource Information System  
 Railroad Data, 1994

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# Rainbow Valley Area Drainage Master Plan Soil Units



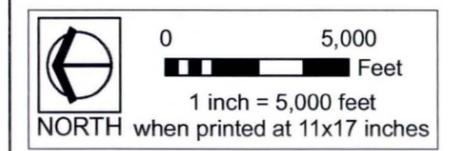
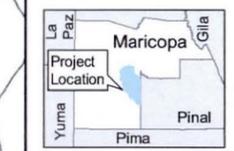
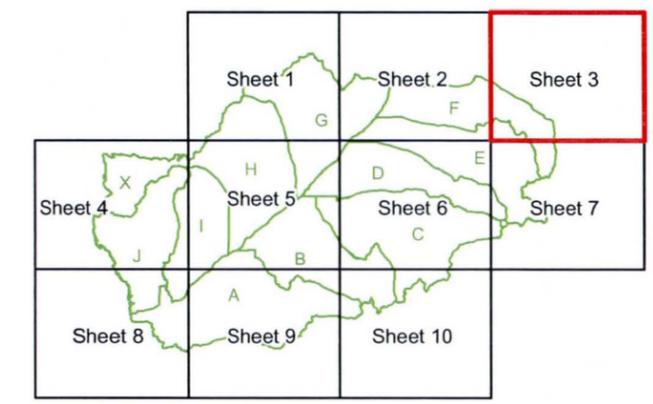
Figure 3A  
Sheet 3 of 10



### Project Features

- Watershed Boundary
- Watershed Name

See Figure 3B, Key to Soils Maps, for detailed soil legend.

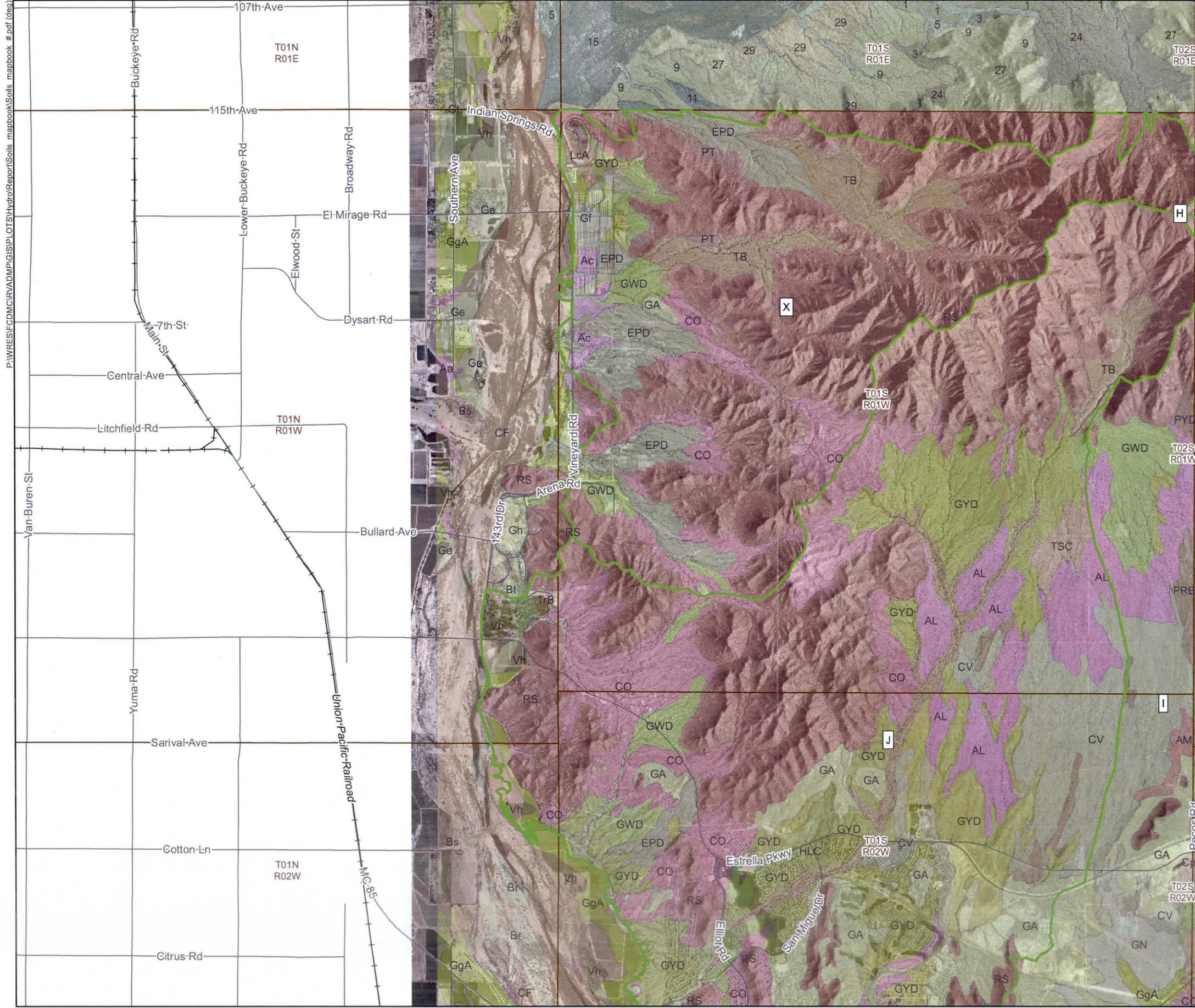


### Reference Features

- County Boundary
- Township and Range Boundary
- Interstate Highway/ Freeway
- Major Road
- Railroad

### Data Sources

Flood Control District of Maricopa County  
 Base Vector Data, 2008  
 MrSid Imagery, 2006-2007  
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Rainbow Valley  
Area Drainage Master Plan  
Soil Units

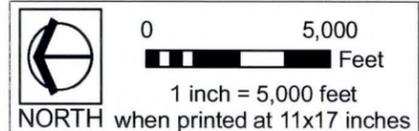
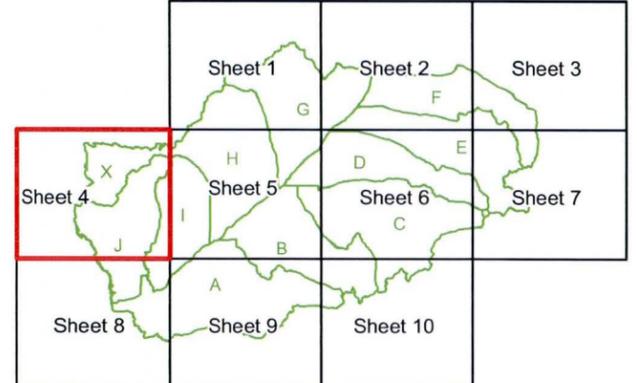


Figure 3A  
Sheet 4 of 10

**Project Features**

- Watershed Boundary
- Watershed Name

See Figure 3B, Key to Soils Maps, for detailed soil legend.



**Reference Features**

- County Boundary
- Township and Range Boundary
- Interstate Highway/ Freeway
- Major Road
- Railroad

**Data Sources**

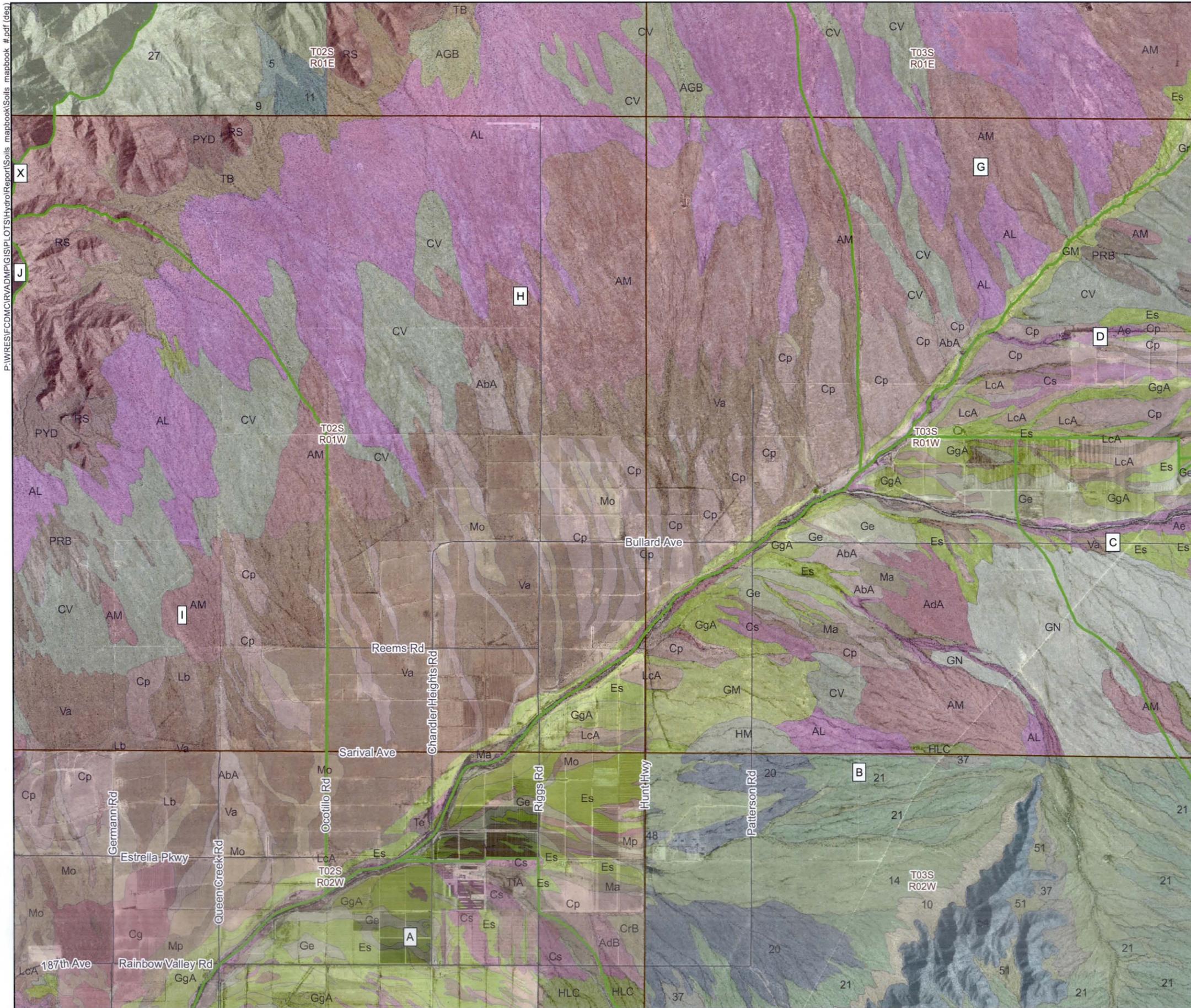
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- MrSid Imagery, 2006-2007
- Arizona Land Resource Information System
- Railroad Data, 1994

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Rainbow Valley  
Area Drainage Master Plan  
Soil Units



Figure 3A  
Sheet 5 of 10

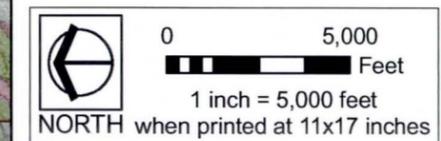
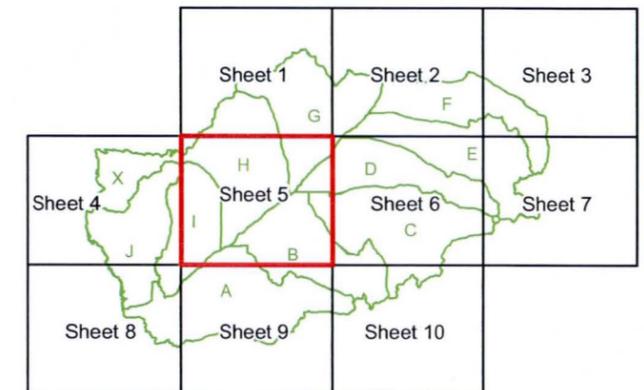


**Project Features**

Watershed Boundary

Watershed Name

See Figure 3B, Key to Soils Maps, for detailed soil legend.



**Reference Features**

- County Boundary
- Township and Range Boundary
- Interstate Highway/ Freeway
- Major Road
- Railroad

**Data Sources**

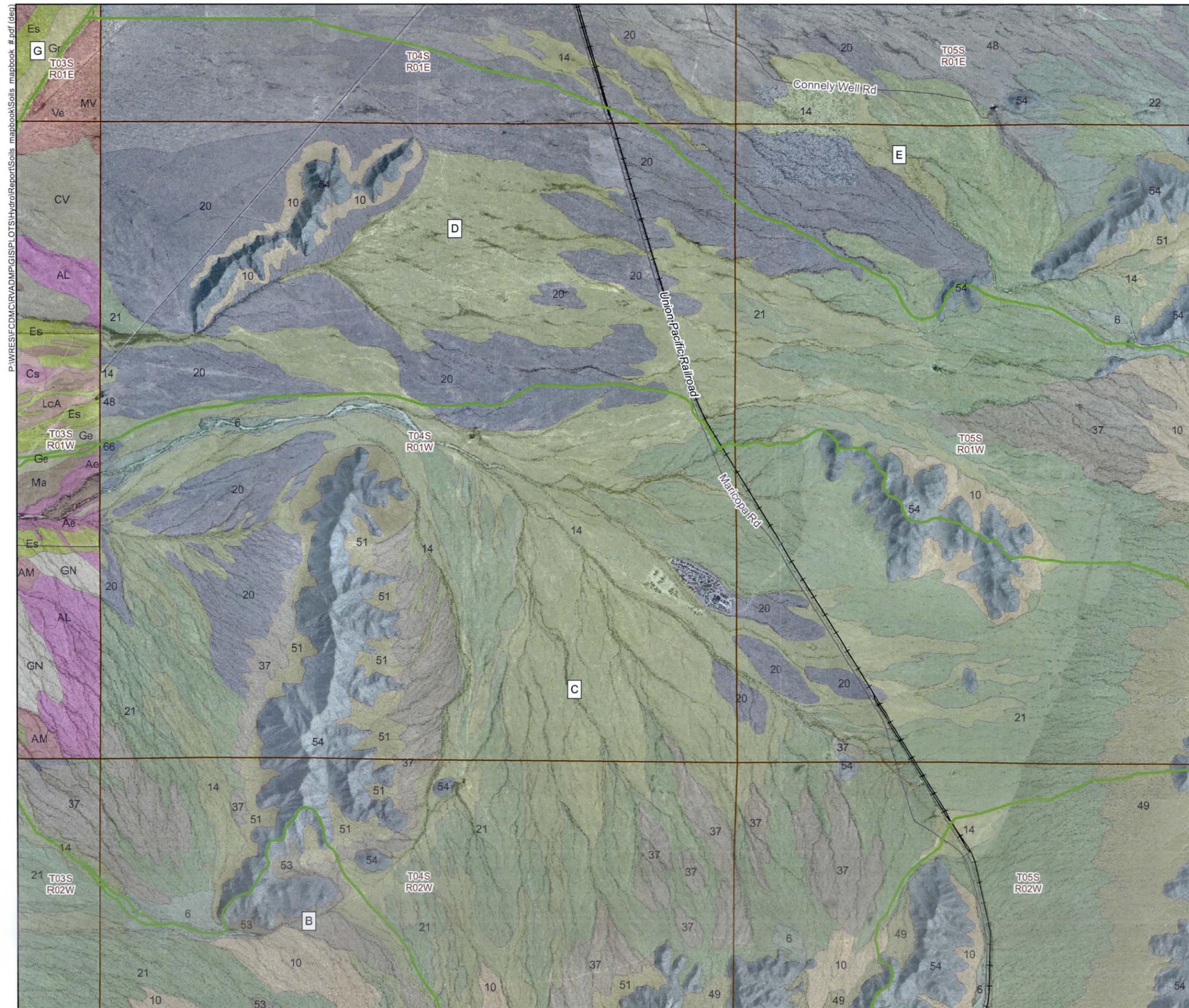
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MrSid Imagery, 2006-2007  
Arizona Land Resource Information System  
Railroad Data, 1994

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Rainbow Valley  
Area Drainage Master Plan  
Soil Units



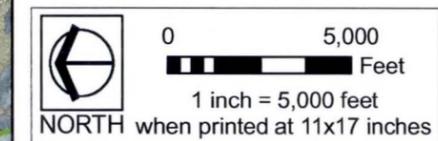
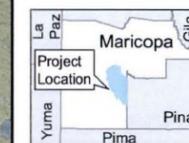
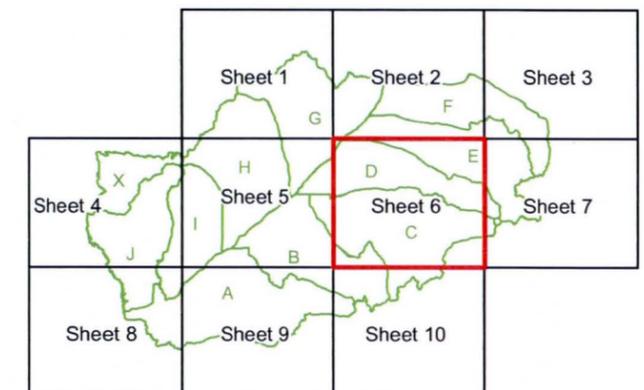
Figure 3A  
Sheet 6 of 10



**Project Features**

- Watershed Boundary
- Watershed Name

See Figure 3B, Key to Soils Maps, for detailed soil legend.



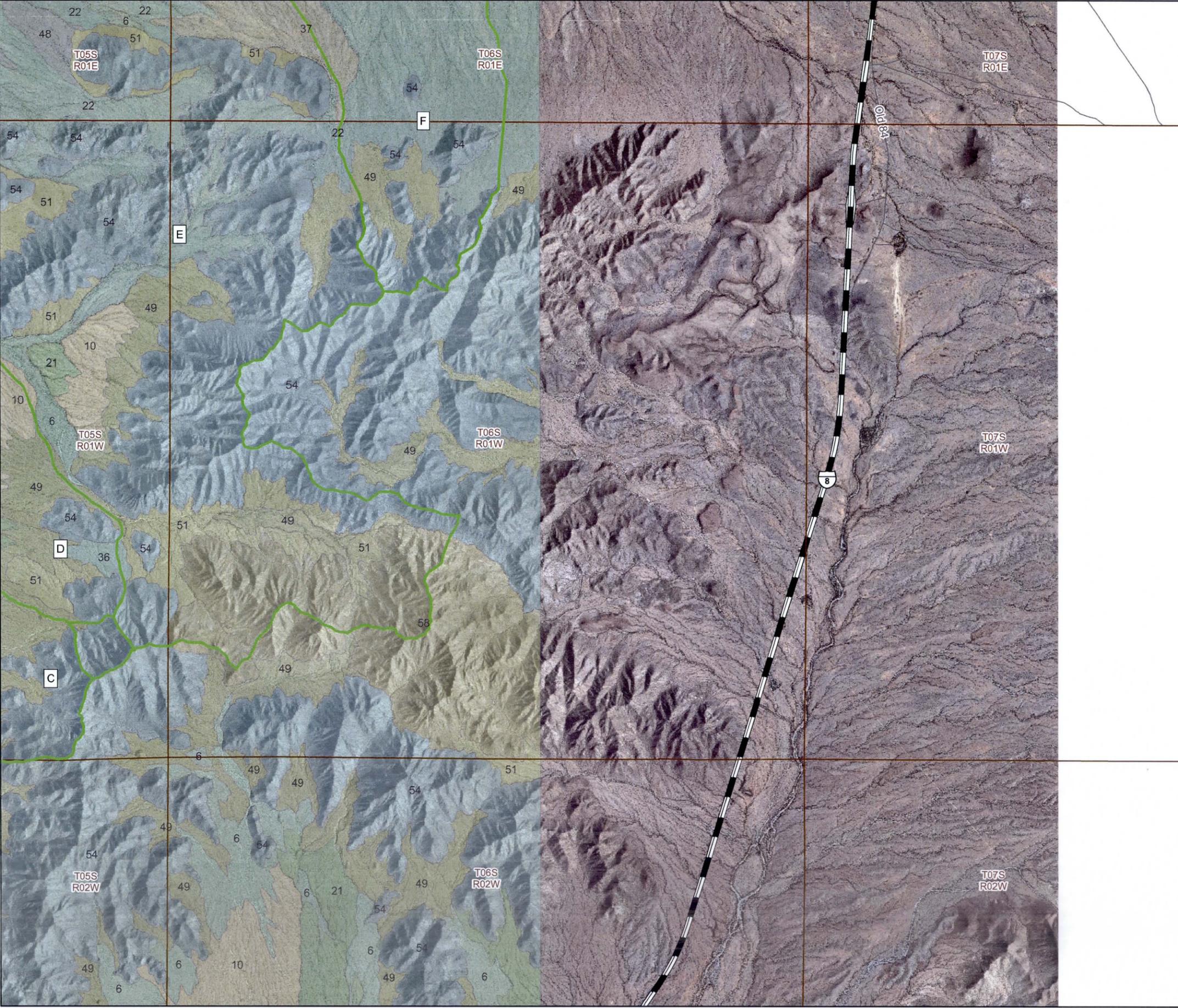
**Reference Features**

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- Township and Range Boundary
- Major Road
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# Rainbow Valley Area Drainage Master Plan Soil Units

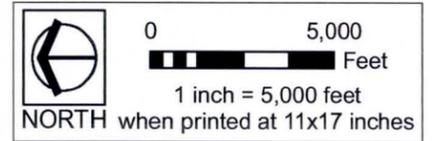
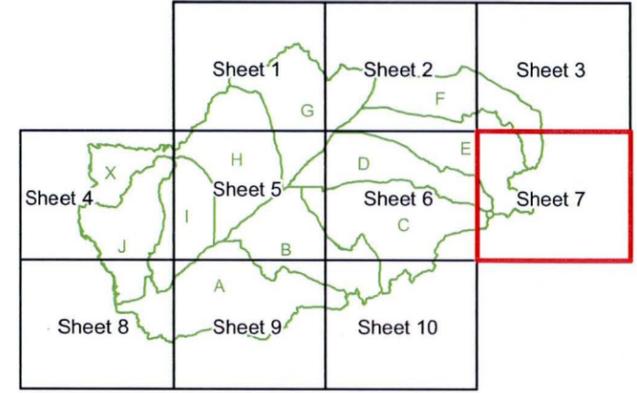


Figure 3A  
Sheet 7 of 10

### Project Features

-  Watershed Boundary
-  Watershed Name

See Figure 3B, Key to Soils Maps, for detailed soil legend.

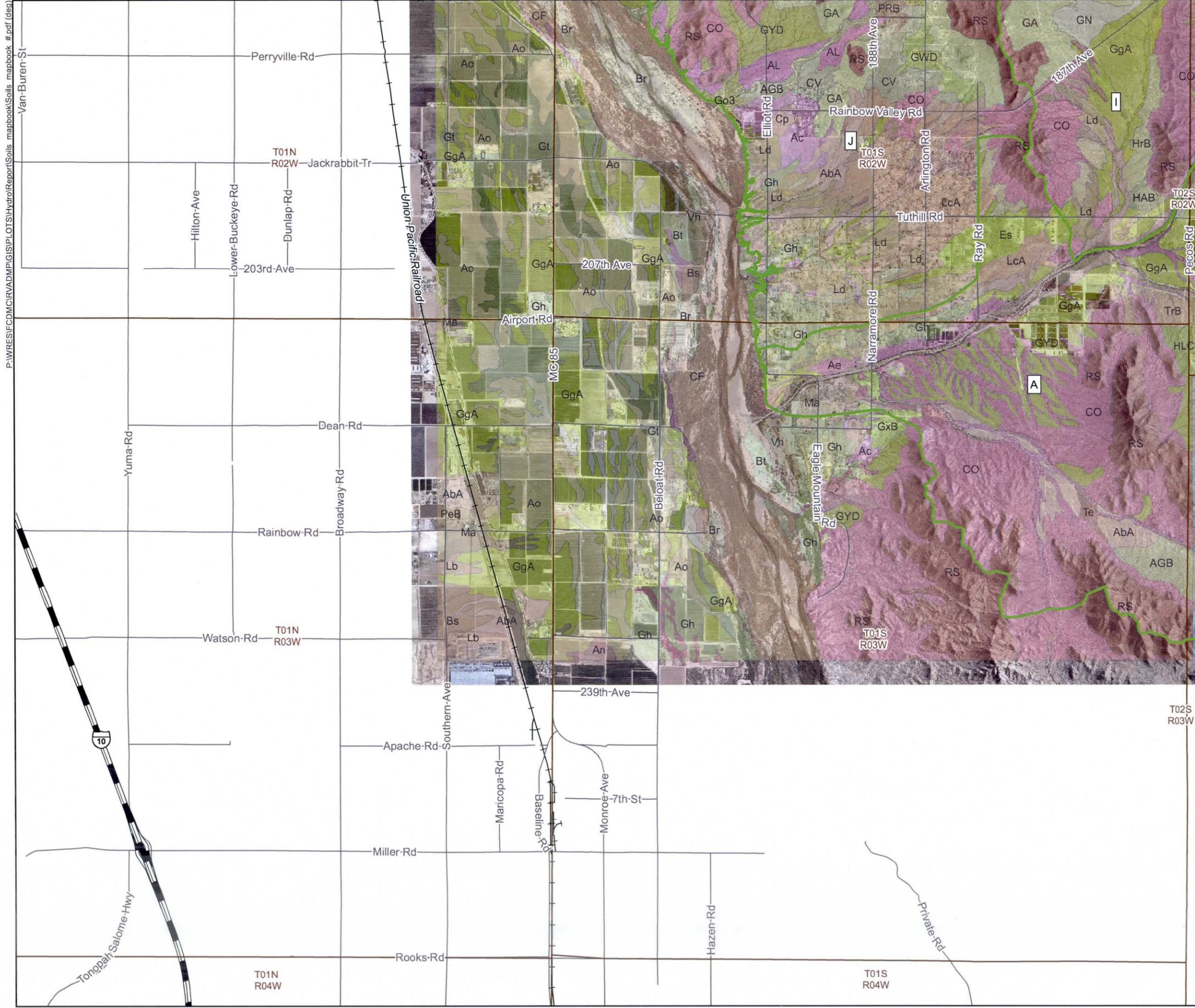


### Reference Features

-  County Boundary
-  Township and Range Boundary
-  Interstate Highway/ Freeway
-  Major Road
-  Railroad

### Data Sources

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 MrSid Imagery, 2006-2007  
 Arizona Land Resource Information System  
 Railroad Data, 1994



Rainbow Valley  
Area Drainage Master Plan  
Soil Units



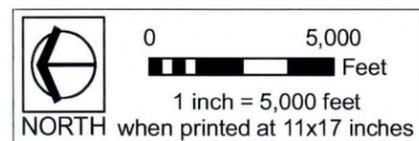
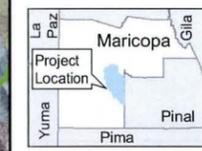
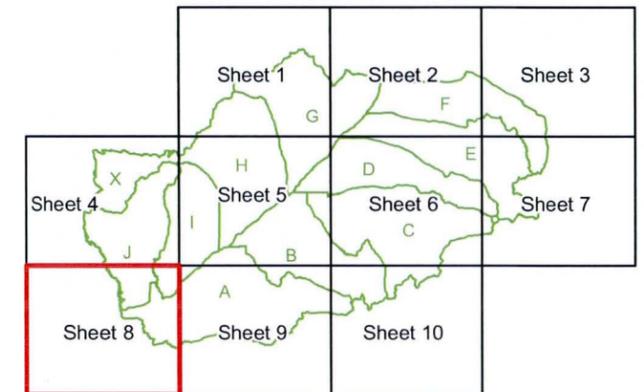
Figure 3A  
Sheet 8 of 10

**Project Features**

Watershed Boundary

Watershed Name

See Figure 3B, Key to Soils Maps, for detailed soil legend.



**Reference Features**

- County Boundary
- Township and Range Boundary
- Interstate Highway/ Freeway
- Major Road
- Railroad

**Data Sources**

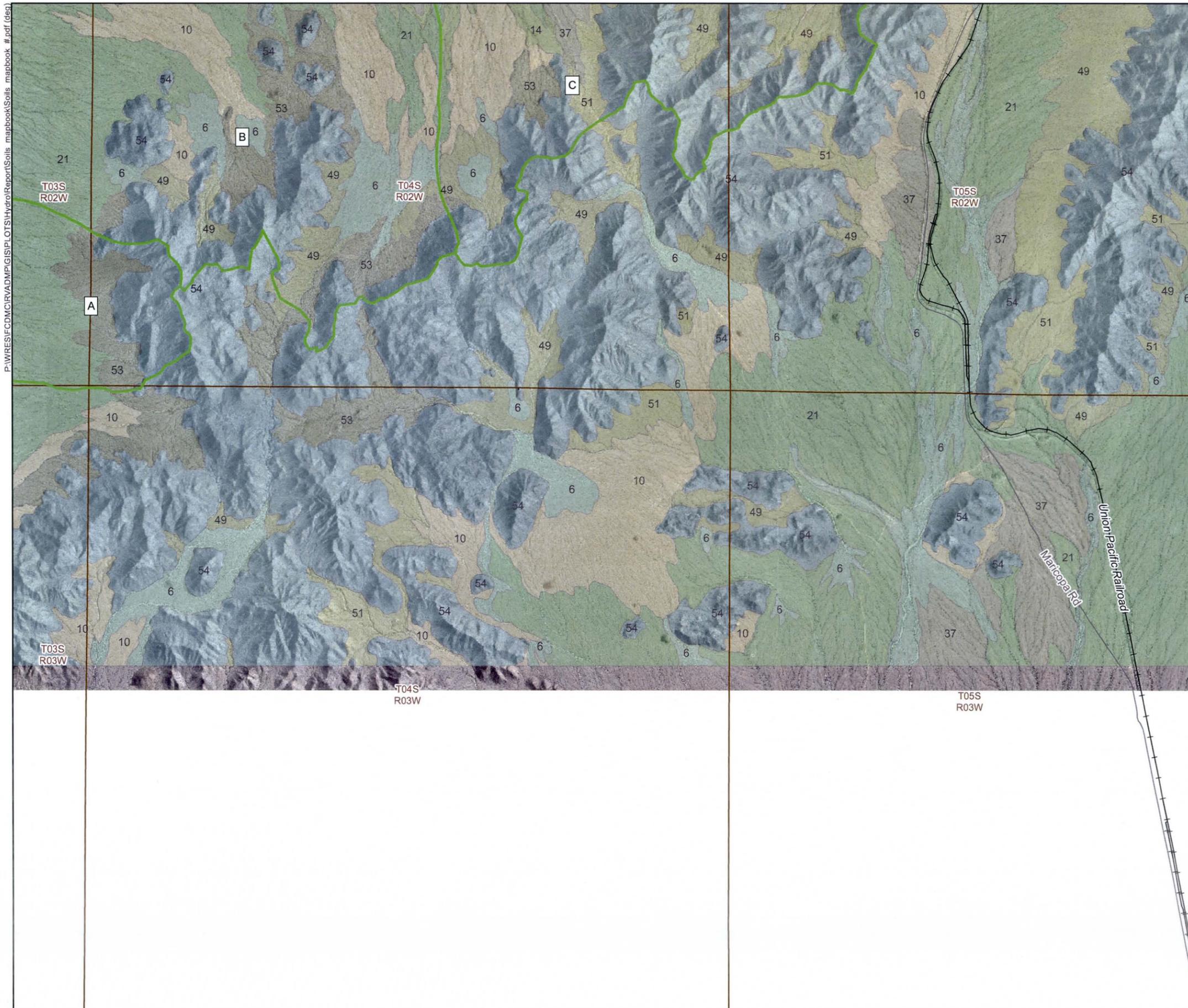
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MrSid Imagery, 2006-2007  
Arizona Land Resource Information System  
Railroad Data, 1994



Rainbow Valley  
Area Drainage Master Plan  
Soil Units



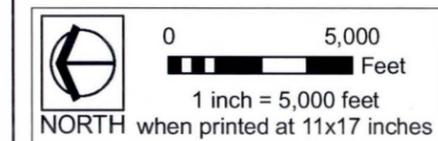
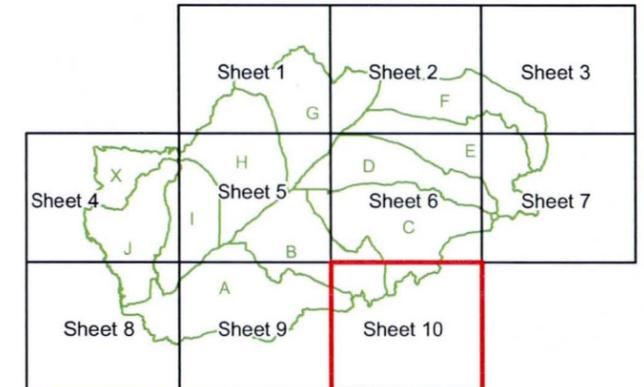
Figure 3A  
Sheet 10 of 10



**Project Features**

- Watershed Boundary
- Watershed Name

See Figure 3B, Key to Soils Maps, for detailed soil legend.



**Reference Features**

- County Boundary
- Township and Range Boundary
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- Railroad

**Data Sources**

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Base Vector Data, 2008  
MrSid Imagery, 2006-2007  
Arizona Land Resource Information System  
Railroad Data, 1994

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**Figure 3B**  
**Key to Soil Maps**

1, Brios gravelly loamy sand, 3 to 5 percent slopes	37, Gunsight-Rillito-Carrizo complex, 1 to 15 percent slopes	Cn, Cashion clay, saline-alkali	MV, Mohall-Laveen association
5, Carrizo-Dateland complex, 0 to 3 percent slopes	37, Yahana-Indio complex, saline-sodic, 0 to 3 percent slopes	Cp, Coolidge sandy loam	Ma, Mariposa sandy loam
5, Carrizo very gravelly coarse sand, 0 to 1 percent slopes	38, Yahana silty clay loam, 0 to 2 percent slopes	CrB, Coolidge gravelly sandy loam, 1 to 3 percent slopes	Mo, Mohall sandy loam
6, Carrizo-Momoli complex, 0 to 3 percent slopes	46, Mohall loam, occasionally flooded	Cs, Coolidge-Tremant complex	Mp, Mohall loam
6, Casa Grande clay loam, 0 to 1 percent slopes	47, Mohall clay loam	EPD, Ebon-Pinamt complex, 0 to 10 percent slopes	Mr, Mohall clay loam
7, Casa Grande complex, 0 to 5 percent slopes	48, Mohall complex, 0 to 3 percent slopes	Es, Estrella loam	PRB, Perryville-Rillito complex, 0 to 3 percent slopes
8, Casa Grande fine sandy loam, 0 to 3 percent slopes	49, Momoli-Carrizo extremely gravelly sandy loams, 1 to 10 percent slopes	Et, Estrella loam, saline-alkali	PT, Pinal gravelly loam
9, Cavelt-Carrizo-Gunsight complex, 1 to 10 percent slopes	51, Momoli-Comobabi association, 5 to 15 percent slopes	GA, Gachado-Rock outcrop complex	PYD, Pinamt-Tremant complex, 1 to 10 percent slopes
10, Chuckwalla-Gunsight complex, 1 to 5 percent slopes	53, Quilotosa-Momoli-Carrizo complex, 1 to 15 percent slopes	GM, Gilman-Antho association	Pa, Perryville sandy loam
10, Cipriano-Momoli complex, 1 to 7 percent slopes	54, Quilotosa-Rock outcrop complex, 15 to 55 percent slopes	GN, Gilman-Laveen association	PeA, Perryville gravelly loam, 0 to 1 percent slopes
11, Cristobal-Gunsight complex, 3 to 15 percent slopes	58, Schenco-Laposa-Rock outcrop complex, 10 to 55 percent slopes	GPI, Gravel pit	PeB, Perryville gravelly loam, 1 to 3 percent slopes
12, Dateland-Cuerda complex, saline-sodic, 0 to 3 percent slopes	66, Why gravelly fine sandy loam	GWD, Gunsight-Pinal complex, 1 to 10 percent slopes	PsA, Pinal loam, 0 to 1 percent slopes
13, Denure-Pahaka complex, 1 to 3 percent slopes	67, Why-Carrizo complex, 0 to 3 percent slopes	GYD, Gunsight-Rillito complex, 0 to 10 percent slopes	PsB, Pinal loam, 1 to 3 percent slopes
14, Dateland-Cuerda complex, 0 to 3 percent slopes	AGB, Antho-Carrizo complex, 0 to 3 percent slopes	Gc, Gadsden clay	RS, Rock outcrop-Cherioni complex
14, Denure-Pahaka complex, 3 to 5 percent slopes	AL, Antho association	Gd, Gadsden clay, saline-alkali	RbA, Rillito loam, 0 to 1 percent slopes
15, Gadsden, Glenbar and Vint soils, saline-sodic, 0 to 2 percent slopes	AM, Antho-Valencia association	Ge, Gilman fine sandy loam	RbB, Rillito loam, 1 to 3 percent slopes
17, Glenbar silt loam, saline-sodic, 0 to 2 percent slopes	Aa, Aguall loam	Gf, Gilman fine sandy loam, saline-alkali	TB, Torrifluvents
19, Indio-Vint complex, saline-sodic, 0 to 3 percent slopes	AbA, Anthosandy loam, 0 to 1 percent slopes	GgA, Gilman loam, 0 to 1 percent slopes	TD, Torripsamments and Torrifluvents, frequently flooded
20, Denure-Coolidge complex, 1 to 3 percent slopes	AbB, Antho sandy loam, 1 to 3 percent slopes	GgB, Gilman loam, 1 to 3 percent slopes	TPB, Tremant complex, 0 to 3 percent slopes
21, Denure-Rillito-Why complex, 1 to 5 percent slopes	Ac, Antho sandy loam, saline-alkali	Gh, Gilman loam, saline-alkali	TSC, Tremant-Rillito complex, 0 to 5 percent slopes
21, Kamato loam, 0 to 2 percent slopes	AdA, Antho gravelly sandy loam, 0 to 1 percent slopes	Go3, Gilman, Antho and Glenbar soils, severely eroded	Ta, Toltec loam
22, Denure-Why complex, 1 to 5 percent slopes	AdB, Antho gravelly sandy loam, 1 to 3 percent slopes	Gp, Gilman loam, clayey subsoil variant, moderately saline	Tc, Torriorthents
23, Laveen fine sandy loam, saline-sodic, 0 to 2 percent slopes	Ae, Antho-Brios sandy loams	Gr, Glenbar loam	Te, Tremant loam
24, Gadsden clay loam, 0 to 3 percent slopes	AfA, Antho-Carrizo complex, 0 to 1 percent slopes	Gs, Glenbar loam, saline-alkali	TfA, Tremant gravelly loam, 0 to 1 percent slopes
24, Momoli cobbly sandy loam, 5 to 15 percent slopes	An, Avonda clay loam	Gt, Glenbar clay loam	TfB, Tremant gravelly loam 1 to 3 percent slopes
27, Quilotosa-Rock outcrop-Vaiva complex, 20 to 65 percent slopes	Ao, Avondale clay loam	Gu, Glenbar clay loam, saline-alkali	TrA, Tremant-Rillito complex, 0 to 1 percent slopes
28, Redun-Shontik complex, 1 to 3 percent slopes	Ap, Avondale clay loam, saline-alkali	GxA, Gunsight-Rillito complex, 0 to 1 percent slopes	TrB, Tremant-Rillito complex, 1 to 3 percent slopes
29, Rillito-Gunsight complex, 3 to 15 percent slopes	Br, Brios loamy sand	GxB, Gunsight-Rillito complex, 1 to 3 percent slopes	Tt, Trix clay loam
3, Carrizo-Momoli complex, 1 to 3 percent slopes	Bs, Brios sandy loam	HAB, Harqua complex, 0 to 3 percent slopes	Tu, Tucson loam
31, Rositas loamy fine sand, sodic, 0 to 3 percent slopes	Bt, Brios loam	HLC, Harqua-Gunsight complex, 0 to 5 percent slopes	Va, Valencia sandy loam
32, Growler-Wellton complex, 1 to 3 percent slopes	CA2, Calciorthids and Torriorthents, eroded	HM, Harqua-Laveen complex	Vb, Valencia sandy loam, saline-alkali
32, Shontik-Redun complex, 0 to 3 percent slopes	CF, Carrizo and Brios soils	HrB, Harqua-Rillito complex, 1 to 3 percent slopes	Ve, Vecont loam
34, Gunsight-Chuckawalla complex, 1 to 15 percent slopes	CO, Cheriono-Rock outcrop complex	Lb, Laveen sandy loam	Vf, Vecont clay
34, Trix loam, saline-sodic, 0 to 1 percent slopes	CV, Coolidge-Laveen association	LcA, Laveen loam, 0 to 1 percent slopes	Vg, Vint loamy fine sand
35, Vint-Yahana complex, saline-sodic, 0 to 10 percent slopes	Cb, Carrizo gravelly sandy loam	LcB, Laveen loam, 1 to 3 percent slopes	Vh, Vint fine sandy loam
36, Gunsight-Pinamt complex, 1 to 15 percent slopes	Cg, Casa Grande Sandy loam	Ld, Laveen loam, saline-alkali	Vk, Vint loam
36, Why-Brios complex, 0 to 2 percent slopes	Ch, Casa Grande loam	Le, Laveen clay loam	

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# Rainbow Valley Area Drainage Master Plan Existing Land Use



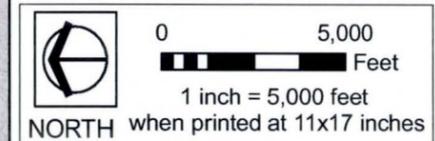
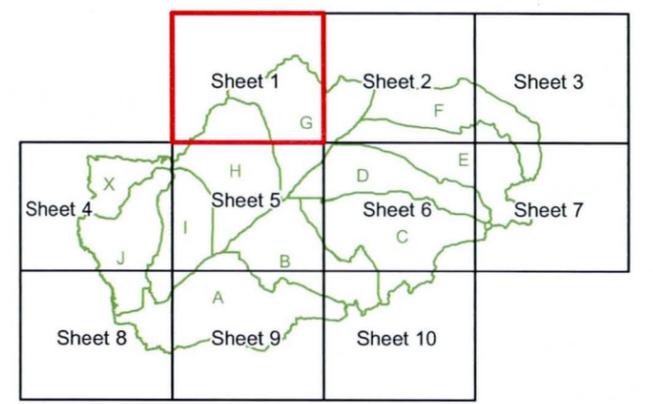
Figure 4A  
Sheet 1 of 10



### Project Features

- Watershed Boundary
- Watershed Name

See Figure 4B, Key to Existing Land Use Maps, for detailed land use legend.



### Reference Features

- County Boundary
- Township and Range Boundary
- Interstate Highway/ Freeway
- Major Road
- Railroad

### Data Sources

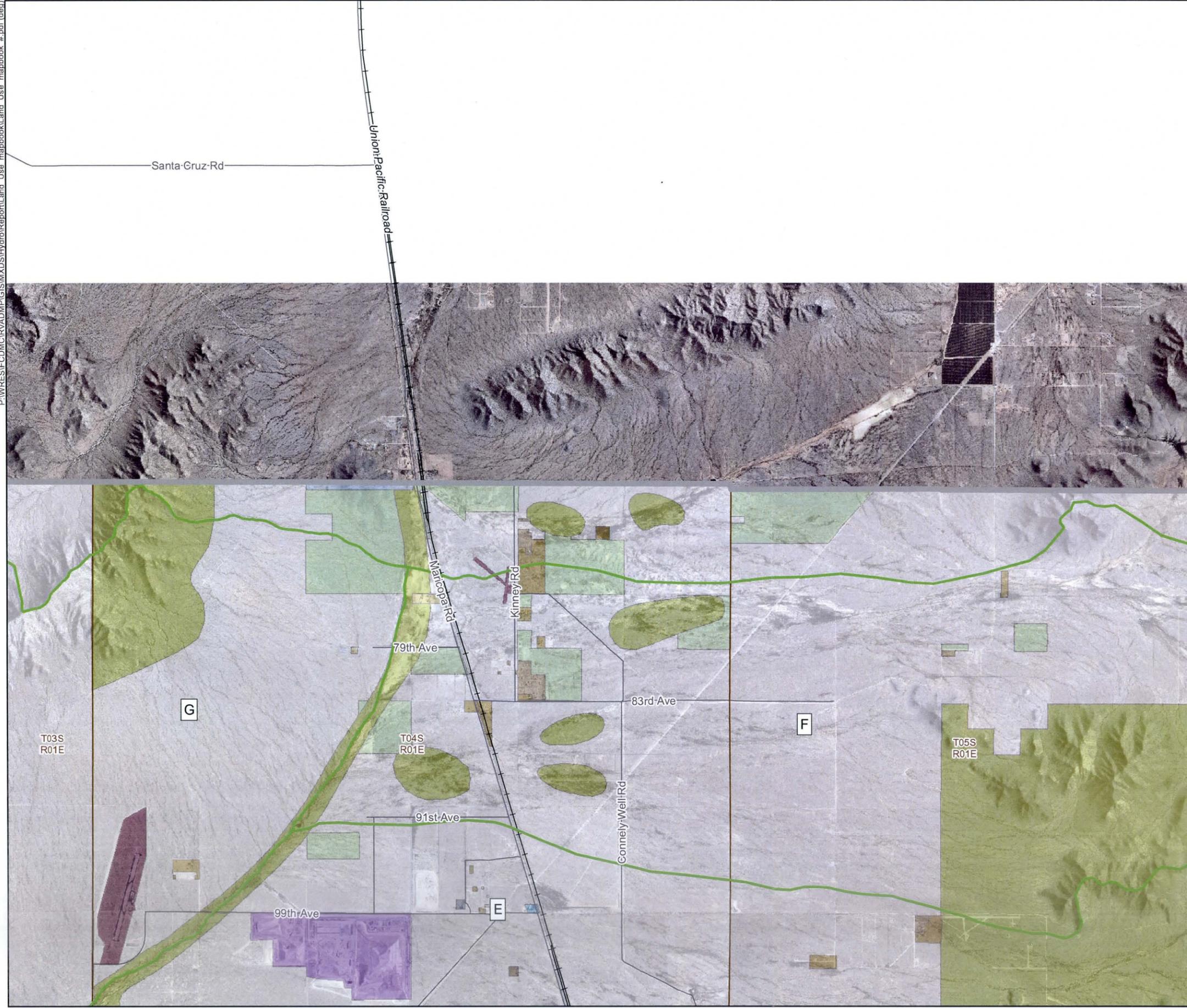
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 Railroad Data 1994  
 URS Corporation  
 Modified Land Use Data, 2008  
 Arizona Land Resource Information System  
 Railroad Data, 1994

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# Rainbow Valley Area Drainage Master Plan Existing Land Use



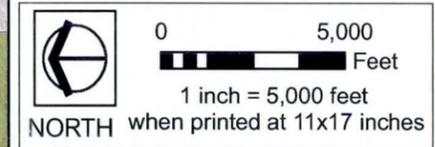
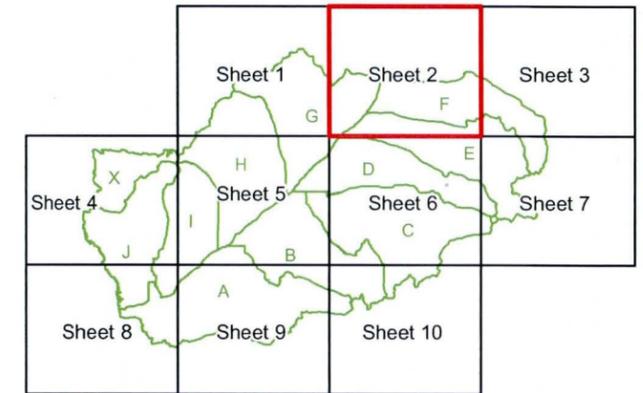
Figure 4A  
Sheet 2 of 10



### Project Features

- Watershed Boundary
- Watershed Name

See Figure 4B, Key to Existing Land Use Maps, for detailed land use legend.



### Reference Features

- County Boundary
- Township and Range Boundary
- Interstate Highway/ Freeway
- Major Road
- Railroad

### Data Sources

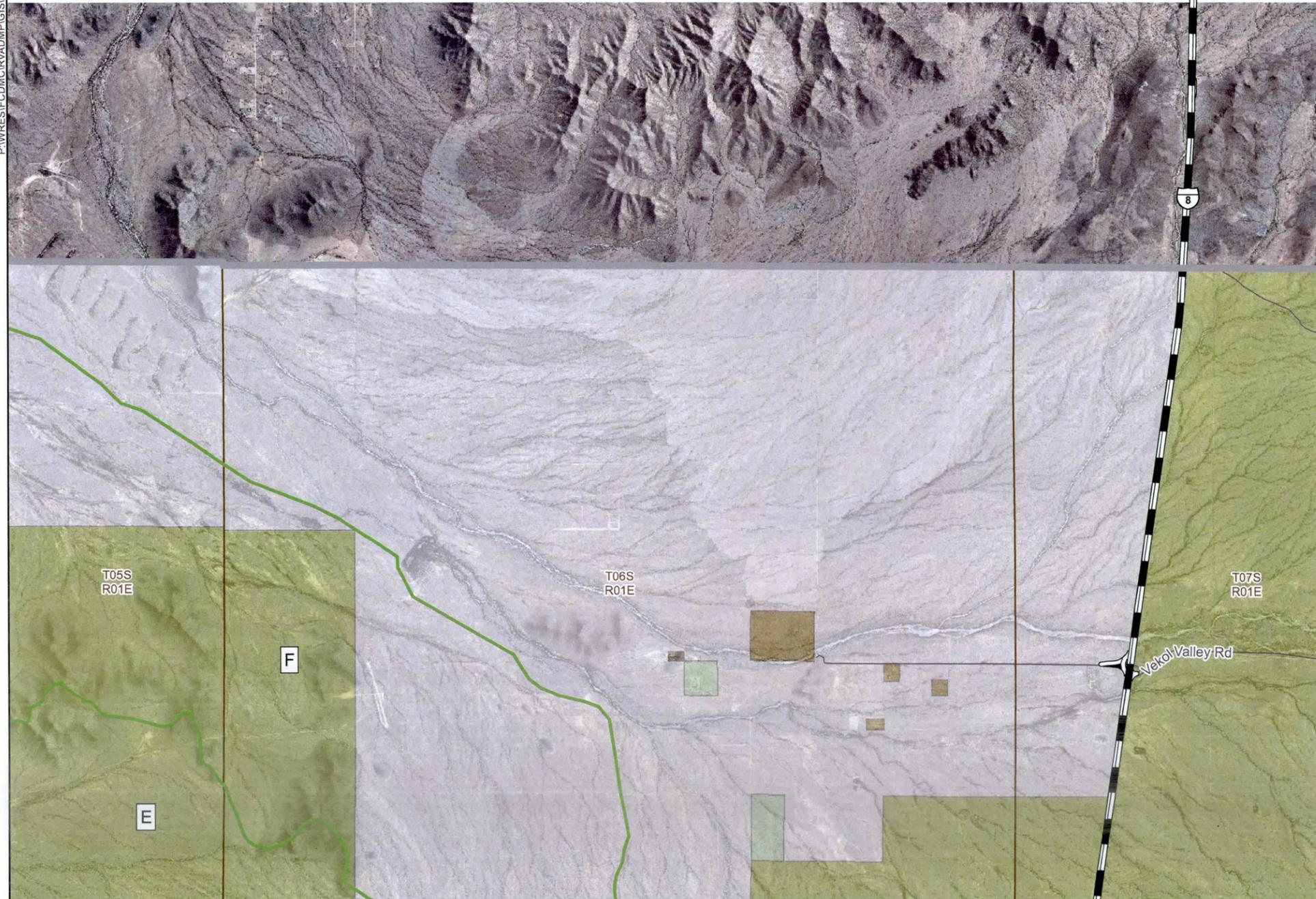
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- Railroad Data 1994
- URS Corporation
- Modified Land Use Data, 2008
- Arizona Land Resource Information System
- Railroad Data, 1994

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# Rainbow Valley Area Drainage Master Plan Existing Land Use



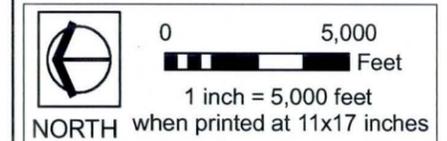
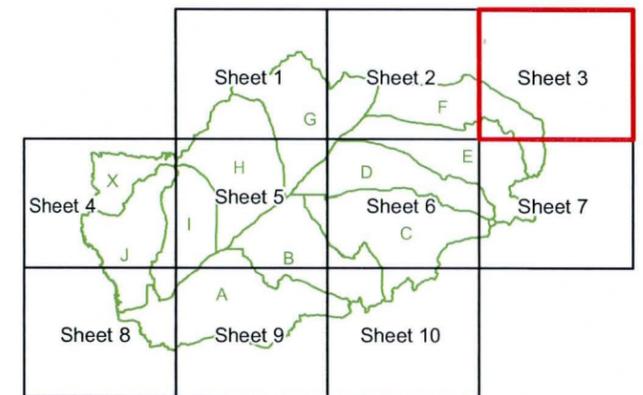
Figure 4A  
Sheet 3 of 10



### Project Features

- Watershed Boundary
- Watershed Name

See Figure 4B, Key to Existing Land Use Maps, for detailed land use legend.

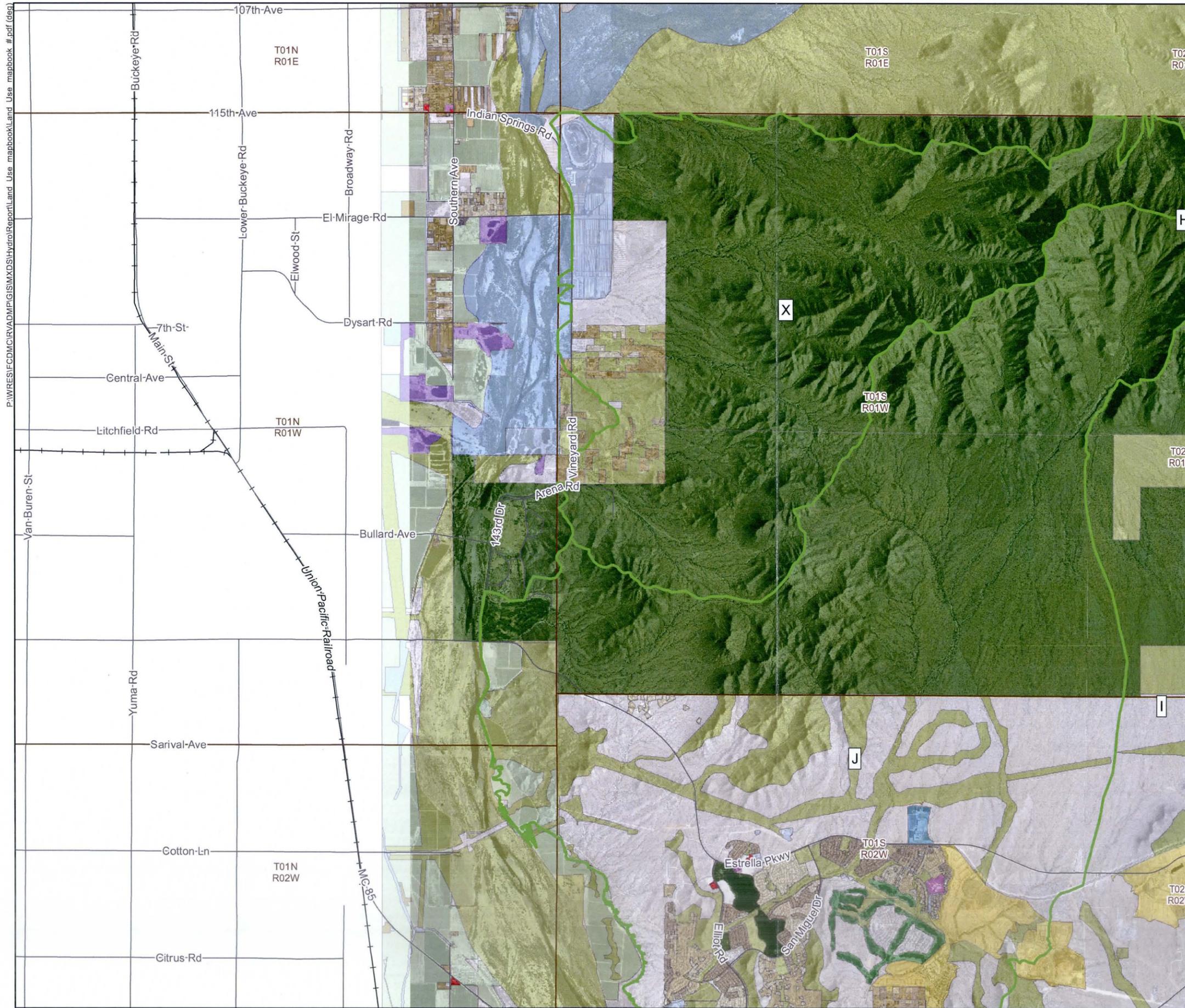


### Reference Features

- County Boundary
- Township and Range Boundary
- Interstate Highway/ Freeway
- Major Road
- Railroad

### Data Sources

- Flood Control District of Maricopa County
- Base Vector Data, 2008
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- Railroad Data 1994
- URS Corporation
- Modified Land Use Data, 2008
- Arizona Land Resource Information System
- Railroad Data, 1994



# Rainbow Valley Area Drainage Master Plan Existing Land Use

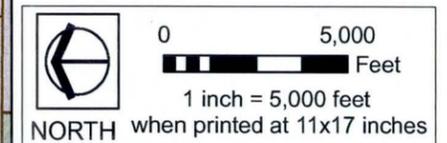
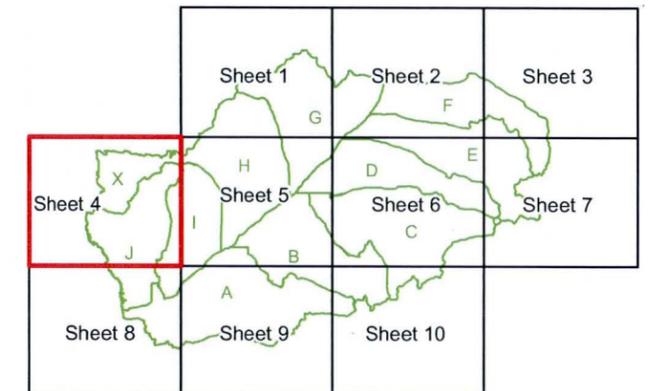


Figure 4A  
Sheet 4 of 10

### Project Features

- Watershed Boundary
- Watershed Name

See Figure 4B, Key to Existing Land Use Maps, for detailed land use legend.



### Reference Features

- County Boundary
- Township and Range Boundary
- Interstate Highway/ Freeway
- Major Road
- Railroad

### Data Sources

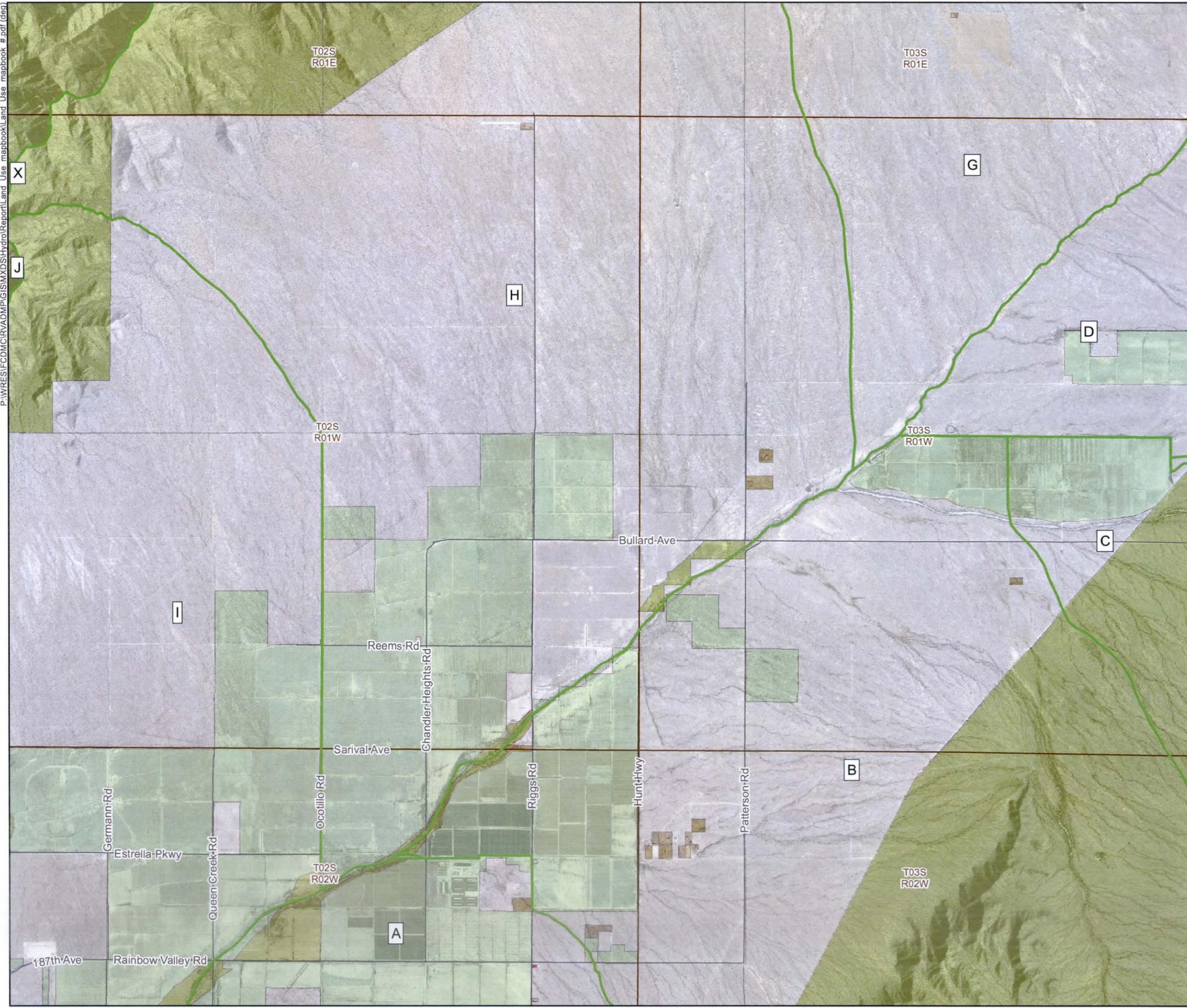
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- Arizona Land Resource Information System
- Railroad Data 1994
- URS Corporation
- Modified Land Use Data, 2008
- Arizona Land Resource Information System
- Railroad Data, 1994

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# Rainbow Valley Area Drainage Master Plan Existing Land Use



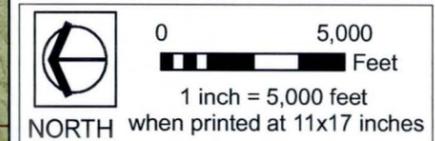
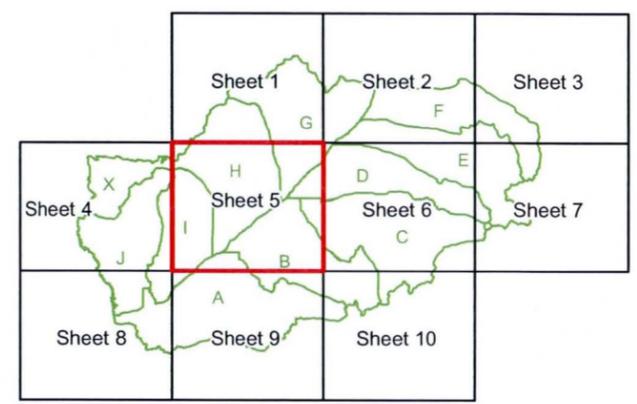
Figure 4A  
Sheet 5 of 10



### Project Features

- Watershed Boundary
- Watershed Name

See Figure 4B, Key to Existing Land Use Maps, for detailed land use legend.



### Reference Features

- County Boundary
- Township and Range Boundary
- Interstate Highway/ Freeway
- Major Road
- Railroad

### Data Sources

Flood Control District of Maricopa County  
 Base Vector Data, 2008  
 MrSid Imagery, 2006-2007  
 Arizona Land Resource Information System  
 Railroad Data 1994  
 URS Corporation  
 Modified Land Use Data, 2008  
 Arizona Land Resource Information System  
 Railroad Data, 1994

Rainbow Valley  
Area Drainage Master Plan  
Existing Land Use



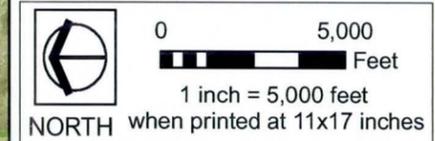
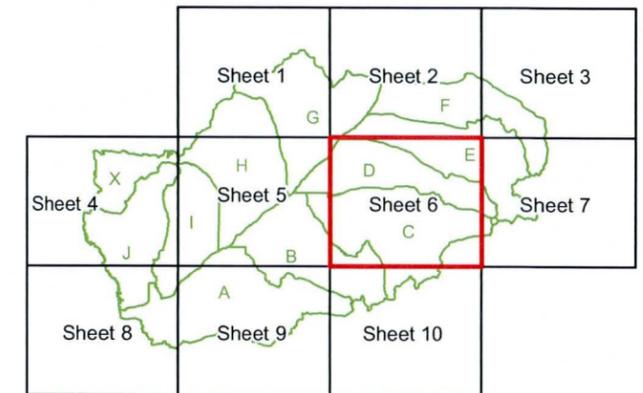
Figure 4A  
Sheet 6 of 10



**Project Features**

- Watershed Boundary
- Watershed Name

See Figure 4B, Key to Existing Land Use Maps, for detailed land use legend.



**Reference Features**

- County Boundary
- Township and Range Boundary
- Interstate Highway/ Freeway
- Major Road
- Railroad

**Data Sources**

Flood Control District of Maricopa County  
Base Vector Data, 2008  
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Arizona Land Resource Information System  
Railroad Data 1994  
URS Corporation  
Modified Land Use Data, 2008  
Arizona Land Resource Information System  
Railroad Data, 1994

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# Rainbow Valley Area Drainage Master Plan Existing Land Use



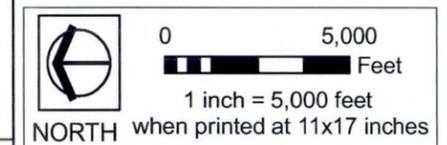
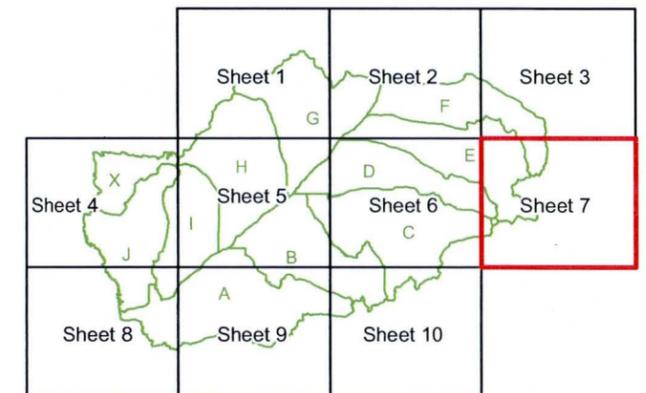
Figure 4A  
Sheet 7 of 10



### Project Features

- Watershed Boundary
- Watershed Name

See Figure 4B, Key to Existing Land Use Maps, for detailed land use legend.



### Reference Features

- County Boundary
- Township and Range Boundary
- Interstate Highway/ Freeway
- Major Road
- Railroad

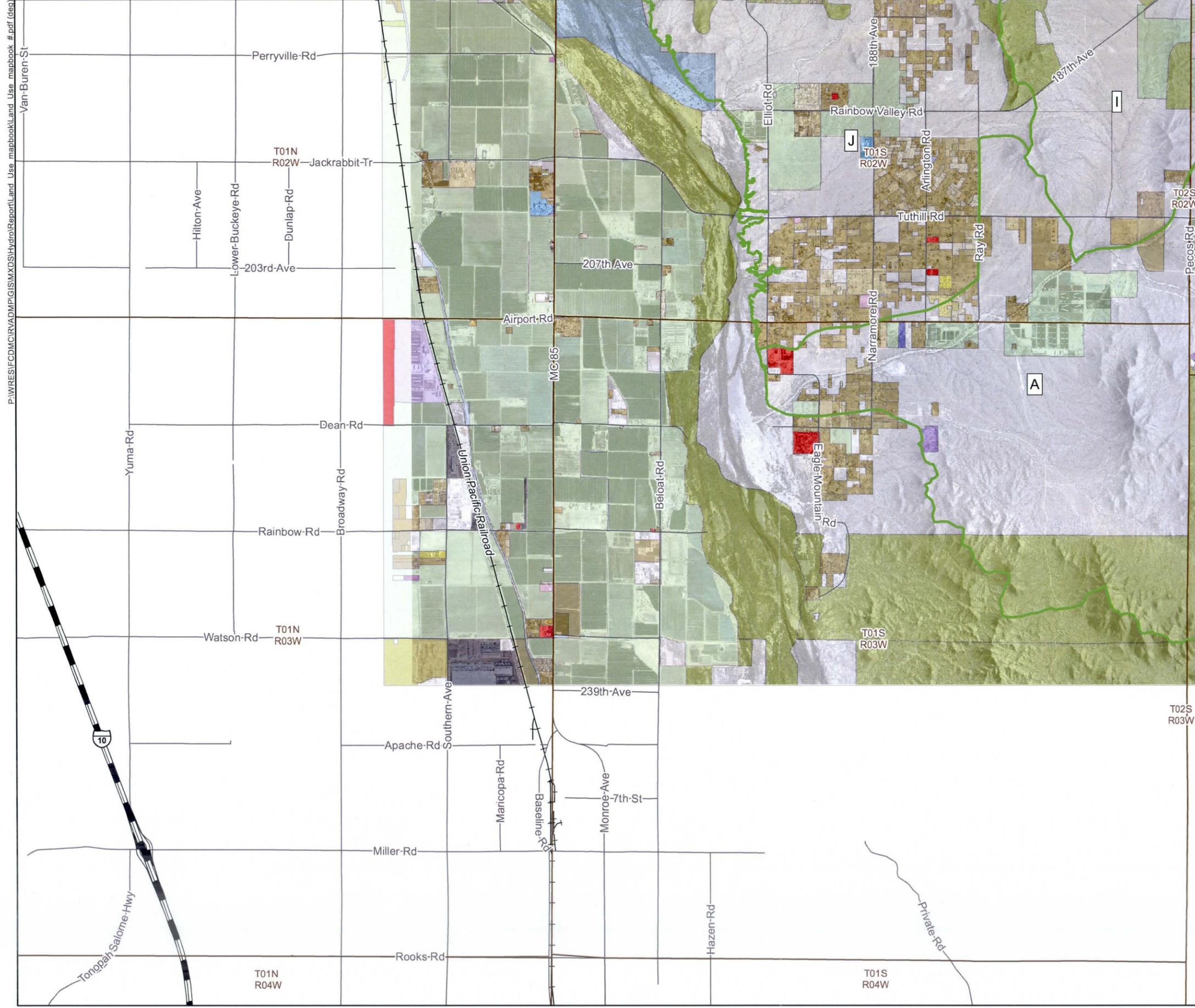
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- Arizona Land Resource Information System
- Railroad Data, 1994

Rainbow Valley  
Area Drainage Master Plan  
Existing Land Use



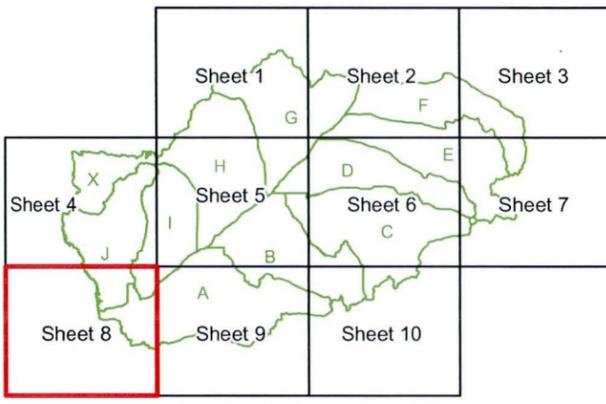
Figure 4A  
Sheet 8 of 10



**Project Features**

- Watershed Boundary
- Watershed Name

See Figure 4B, Key to Existing Land Use Maps, for detailed land use legend.



NORTH when printed at 11x17 inches

0 5,000 Feet  
1 inch = 5,000 feet

**Reference Features**

- County Boundary
- Interstate Highway/ Freeway
- Township and Range Boundary
- Major Road
- Railroad

**Data Sources**

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Rainbow Valley  
Area Drainage Master Plan  
Existing Land Use



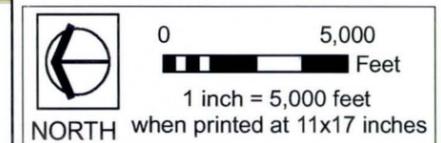
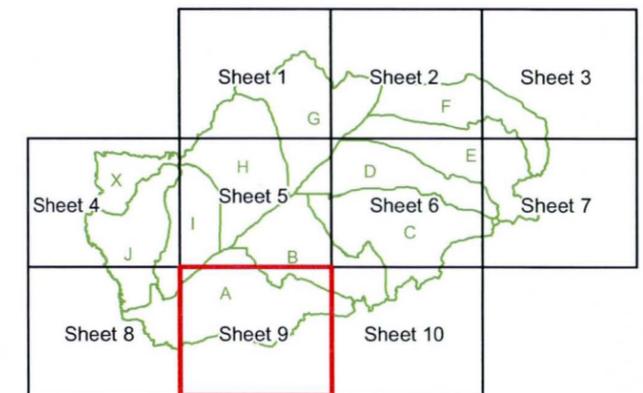
Figure 4A  
Sheet 9 of 10



**Project Features**

- Watershed Boundary
- Watershed Name

See Figure 4B, Key to Existing Land Use Maps, for detailed land use legend.



**Reference Features**

- County Boundary
- Township and Range Boundary
- Interstate Highway/ Freeway
- Major Road
- Railroad

**Data Sources**

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Rainbow Valley  
Area Drainage Master Plan  
Existing Land Use



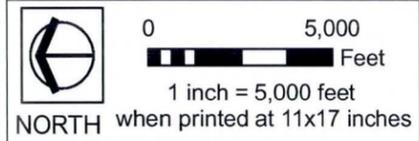
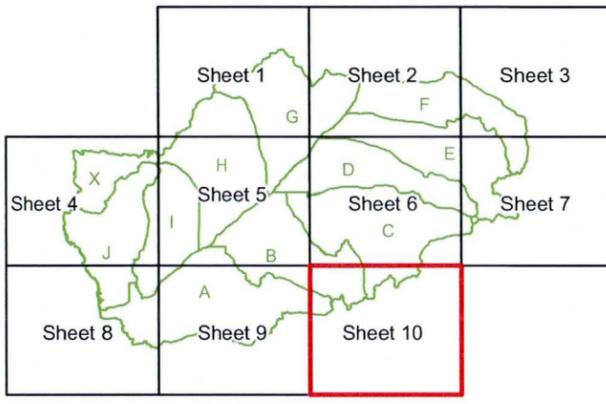
Figure 4A  
Sheet 10 of 10



**Project Features**

- Watershed Boundary
- Watershed Name

See Figure 4B, Key to Existing Land Use Maps, for detailed land use legend.



**Reference Features**

- County Boundary
- Township and Range Boundary
- Interstate Highway/Freeway
- Major Road
- Railroad

**Data Sources**

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- Arizona Land Resource Information System
- Railroad Data, 1994

**Figure 4B**  
**Key to Existing Land Use Maps**

**Residential**

-  Single Family Low Density - Less than 1 du/ac (modified)
-  Single Family Low Density - Less than 1 du/ac
-  Single Family Medium Density - 1 to 4 du/ac (modified)
-  Single Family Medium Density - 1 to 4 du/ac
-  Single Family High Density - Greater than 4 du/ac (Includes Mobile Homes)
-  Multi Family - Apartment/Condo
-  Developing Residential (modified)
-  Developing Residential
-  Developing Residential (Under Construction)

**Public/Quasi Public**

-  Public/Special Event/Military
-  Medical/Nursing Home
-  Educational
-  Cemetery

**Open Space**

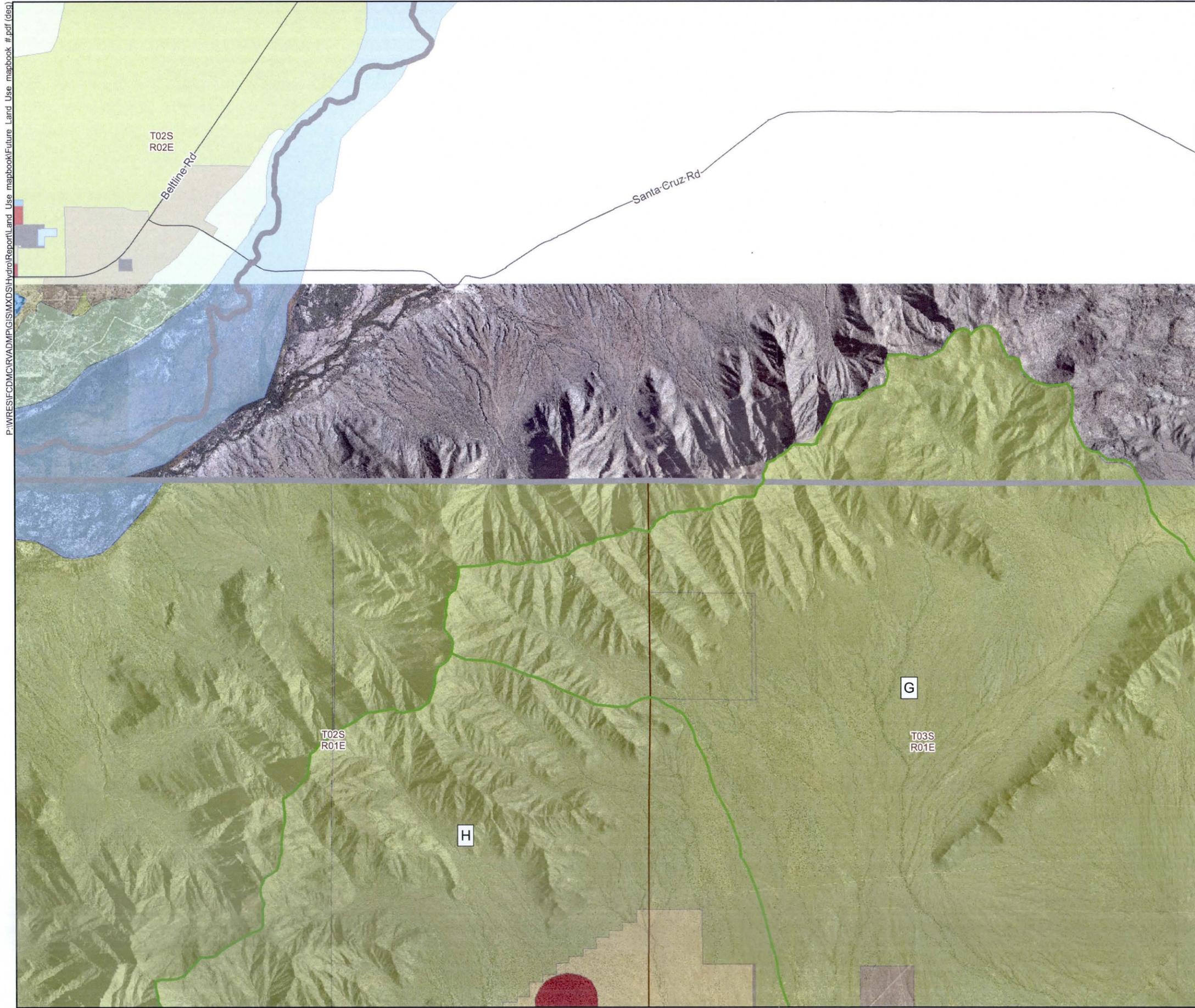
-  Passive/Restricted Open Space
-  Golf Course
-  Active Open Space

**Industrial/Commercial**

-  Industrial
-  Commercial Low - Amusement/Movie/Theatre/Specialty Retail/Neighborhood Retail
-  Commercial High - Community Retail/Regional Retail
-  Other Employment - Landfill/Proving Grounds/Sand and Gravel/etc.
-  Developing Employment Generating
-  Possible Business Park
-  Airport

**Other**

-  Agriculture
-  Religious Institutions
-  Vacant
-  Water



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Rainbow Valley  
Area Drainage Master Plan  
Future Land Use

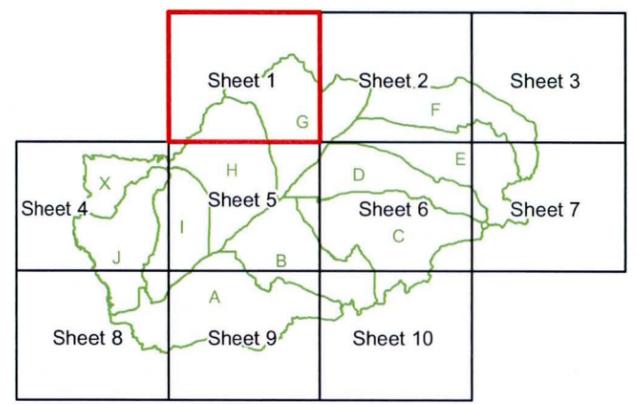


Figure 5A  
Sheet 1 of 10

**Project Features**

- Watershed Boundary
- Watershed Name

See Figure 5B, Key to Land Use Maps, for detailed land use legend.



0 5,000 Feet  
1 inch = 5,000 feet  
NORTH when printed at 11x17 inches

**Reference Features**

- County Boundary
- Township and Range Boundary
- Interstate Highway/ Freeway
- Major Road
- Railroad

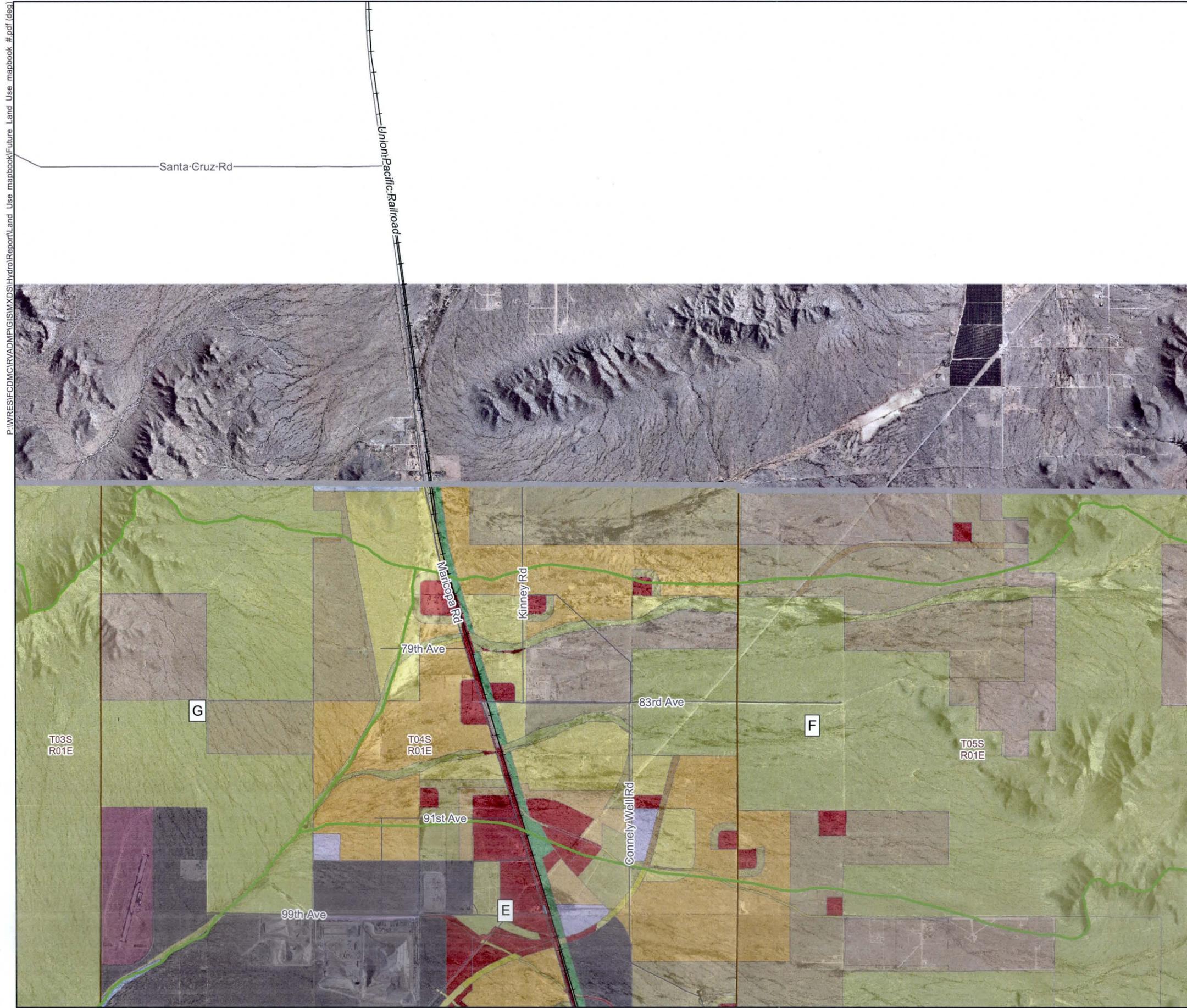
**Data Sources**

- Flood Control District of Maricopa County
- Base Vector Data, 2008
- Future Land Use Data, 2008
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- Arizona Land Resource Information System
- Railroad Data, 1994

Rainbow Valley  
Area Drainage Master Plan  
Future Land Use



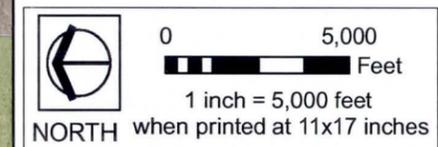
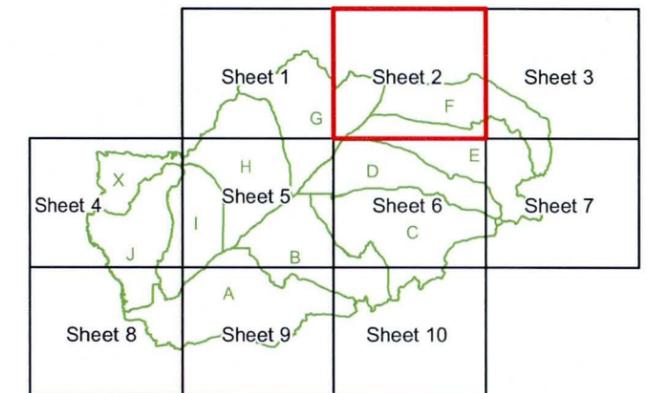
Figure 5A  
Sheet 2 of 10



**Project Features**

- Watershed Boundary
- Watershed Name

See Figure 5B, Key to Land Use Maps, for detailed land use legend.



**Reference Features**

- County Boundary
- Township and Range Boundary
- Interstate Highway/ Freeway
- Major Road
- Railroad

**Data Sources**

- Flood Control District of Maricopa County
- Base Vector Data, 2008
- Future Land Use Data, 2008
- MrSid Imagery, 2006-2007
- Arizona Land Resource Information System
- Railroad Data, 1994

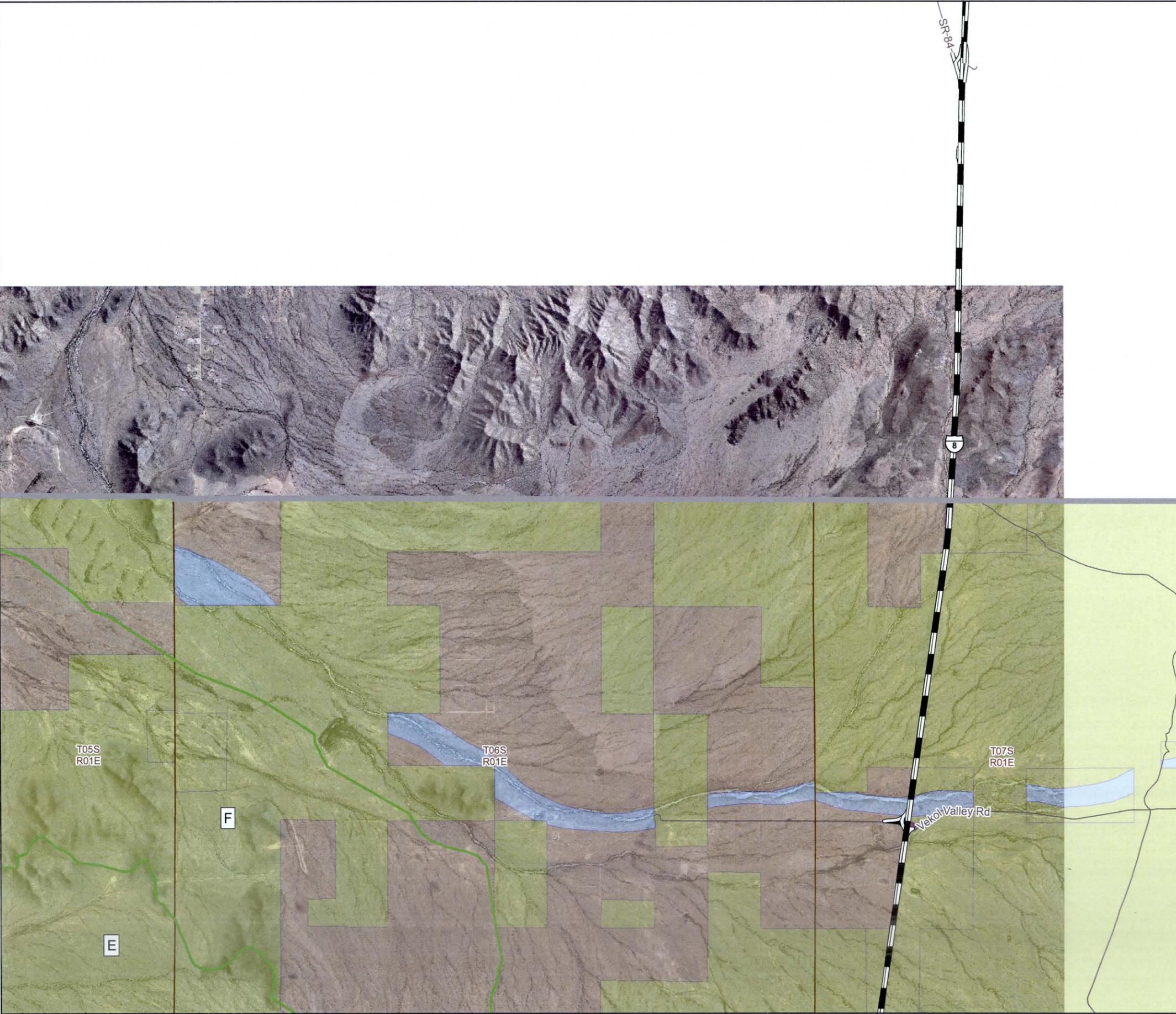
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# Rainbow Valley Area Drainage Master Plan Future Land Use



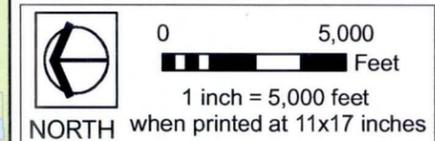
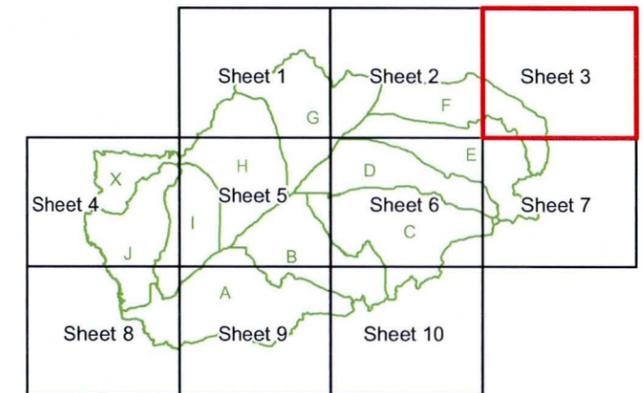
Figure 5A  
Sheet 3 of 10



### Project Features

- Watershed Boundary
- Watershed Name

See Figure 5B, Key to Land Use Maps, for detailed land use legend.



### Reference Features

- County Boundary
- Township and Range Boundary
- Interstate Highway/ Freeway
- Major Road
- Railroad

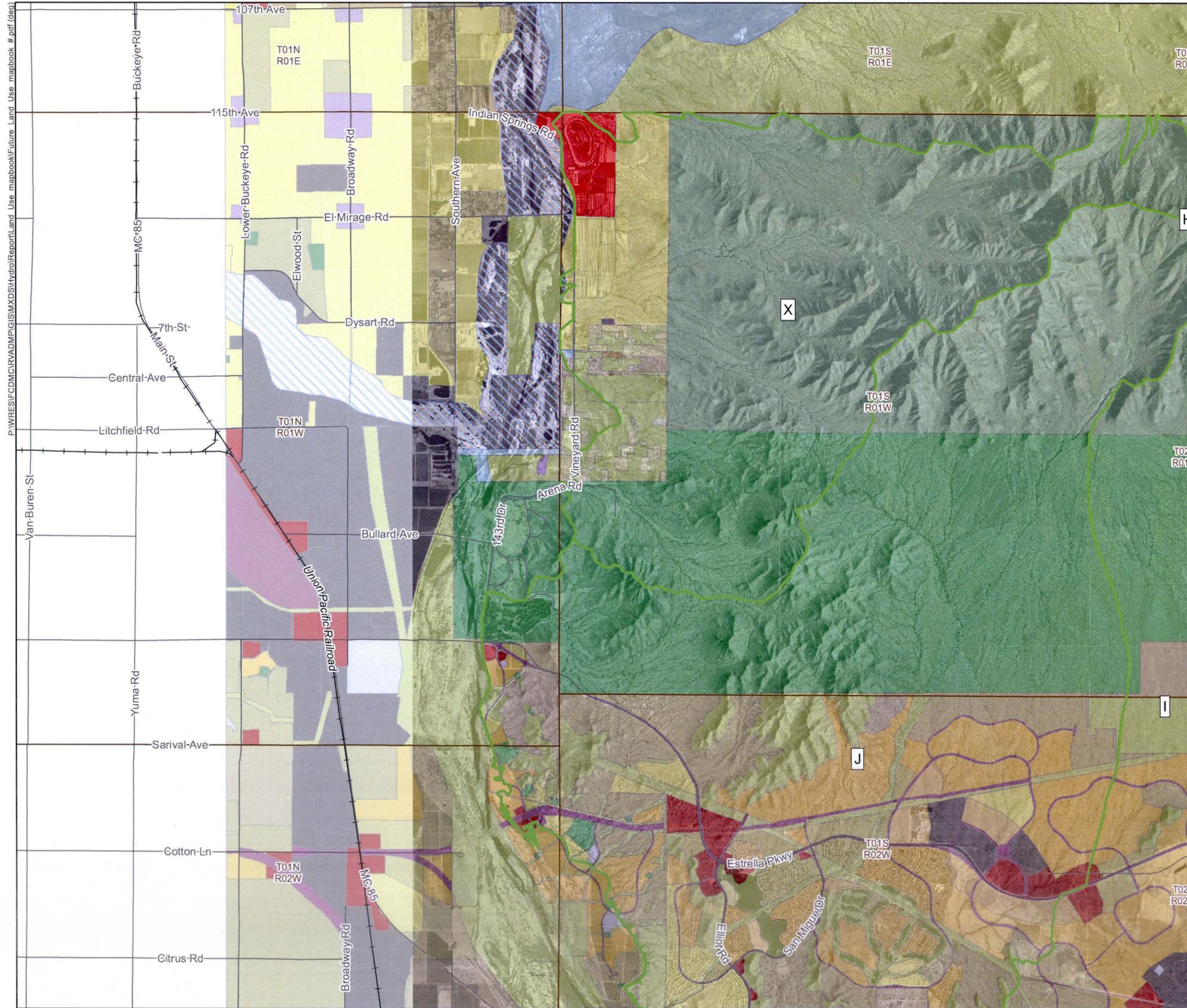
### Data Sources

- Flood Control District of Maricopa County
- Base Vector Data, 2008
- Future Land Use Data, 2008
- MrSid Imagery, 2006-2007
- Arizona Land Resource Information System
- Railroad Data, 1994

Rainbow Valley  
Area Drainage Master Plan  
Future Land Use



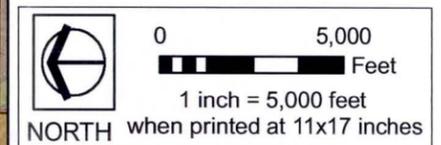
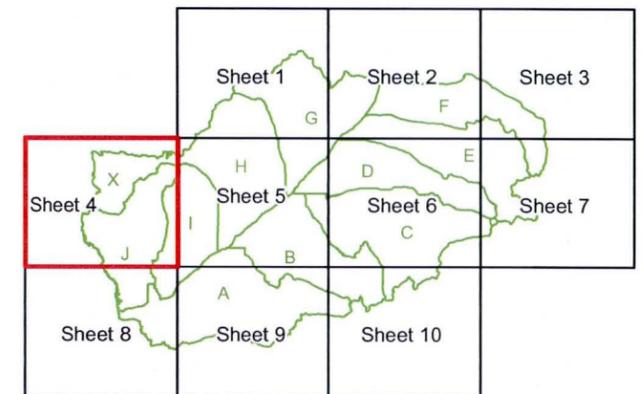
Figure 5A  
Sheet 4 of 10



**Project Features**

- Watershed Boundary
- Watershed Name

See Figure 5B, Key to Land Use Maps, for detailed land use legend.



**Reference Features**

- County Boundary
- Interstate Highway/ Freeway
- Township and Range Boundary
- Major Road
- Railroad

**Data Sources**

Flood Control District of Maricopa County  
Base Vector Data, 2008  
Future Land Use Data, 2008  
MrSid Imagery, 2006-2007  
Arizona Land Resource Information System  
Railroad Data, 1994

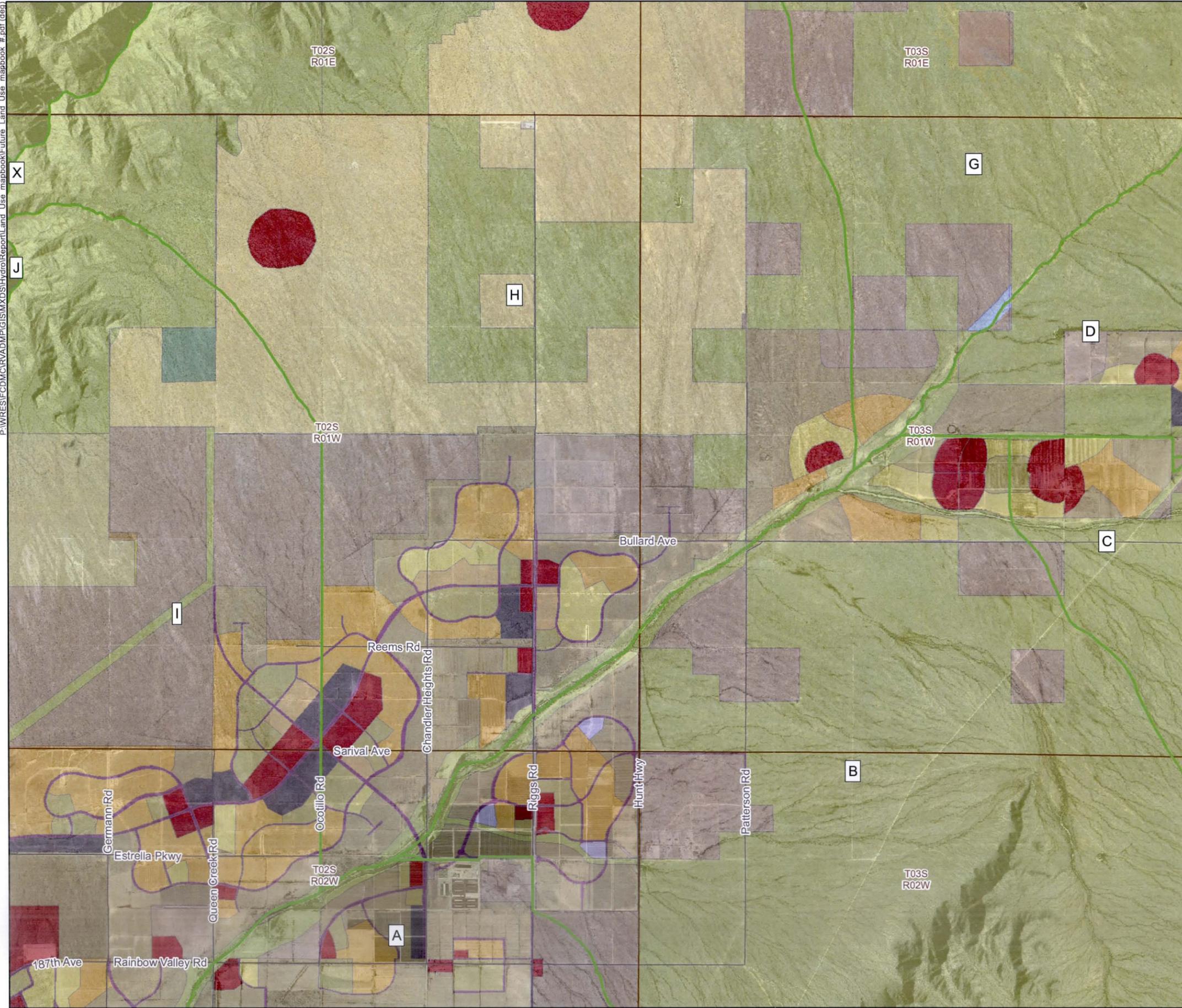
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Rainbow Valley  
Area Drainage Master Plan  
Future Land Use



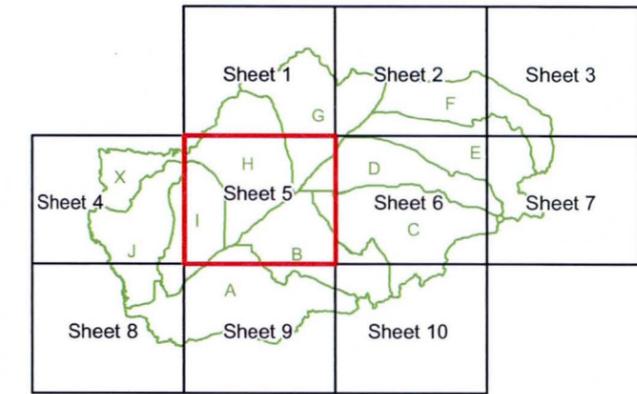
Figure 5A  
Sheet 5 of 10



**Project Features**

- Watershed Boundary
- Watershed Name

See Figure 5B, Key to Land Use Maps, for detailed land use legend.



0 5,000 Feet  
1 inch = 5,000 feet  
NORTH when printed at 11x17 inches

**Reference Features**

- County Boundary
- Township and Range Boundary
- Interstate Highway/ Freeway
- Major Road
- Railroad

**Data Sources**

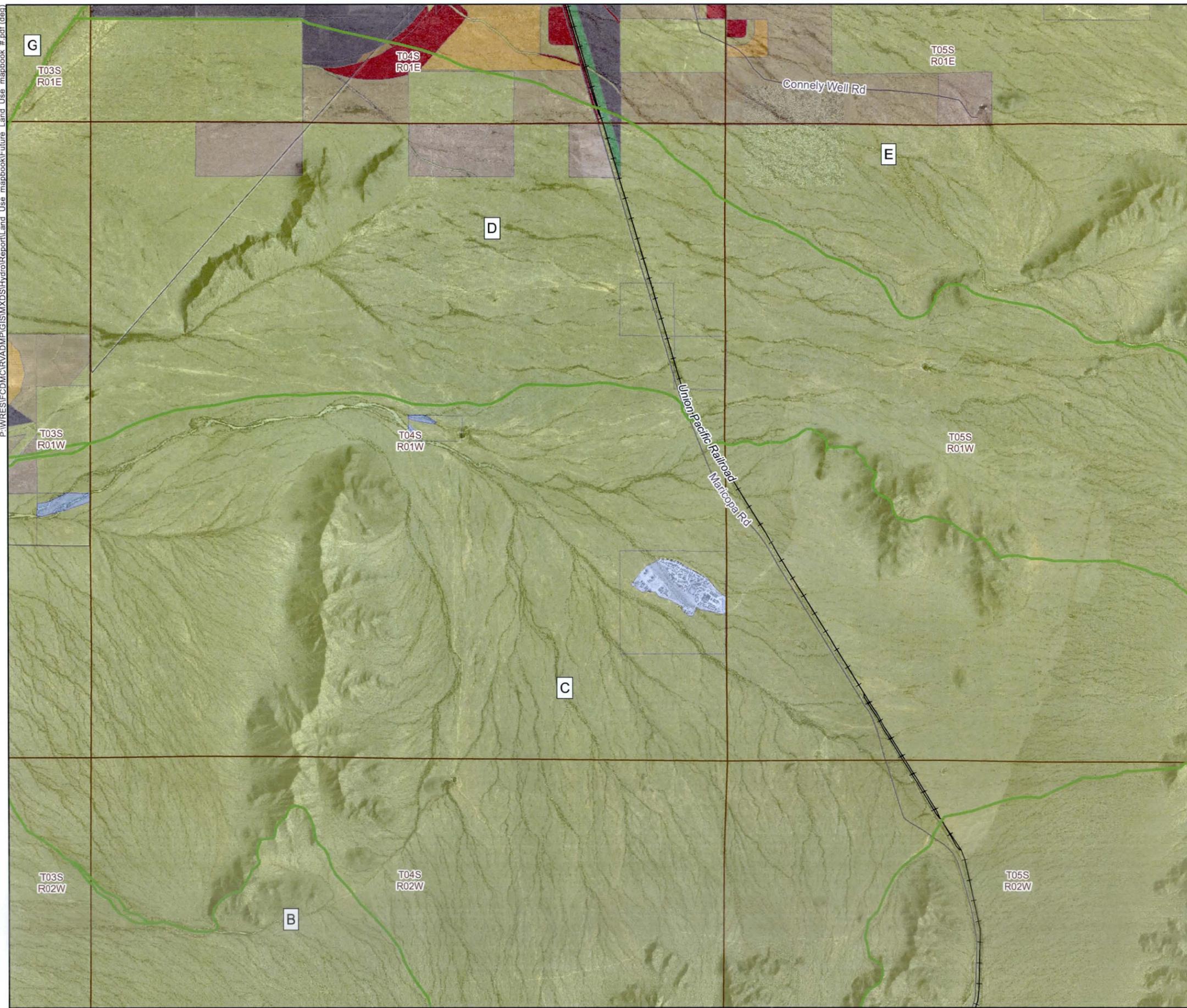
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MrSid Imagery, 2006-2007  
Arizona Land Resource Information System  
Railroad Data, 1994

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# Rainbow Valley Area Drainage Master Plan Future Land Use



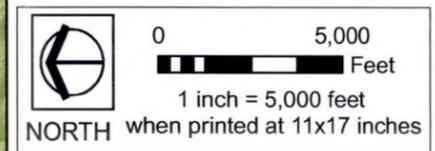
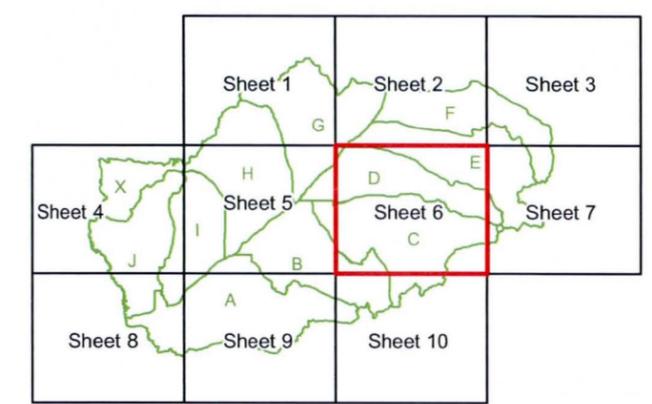
Figure 5A  
Sheet 6 of 10



### Project Features

- Watershed Boundary
- Watershed Name

See Figure 5B, Key to Land Use Maps, for detailed land use legend.



### Reference Features

- County Boundary
- Township and Range Boundary
- Interstate Highway/ Freeway
- Major Road
- Railroad

### Data Sources

- Flood Control District of Maricopa County
- Base Vector Data, 2008
- Future Land Use Data, 2008
- MrSid Imagery, 2006-2007
- Arizona Land Resource Information System
- Railroad Data, 1994

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# Rainbow Valley Area Drainage Master Plan Future Land Use



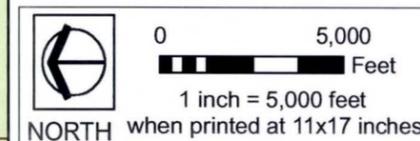
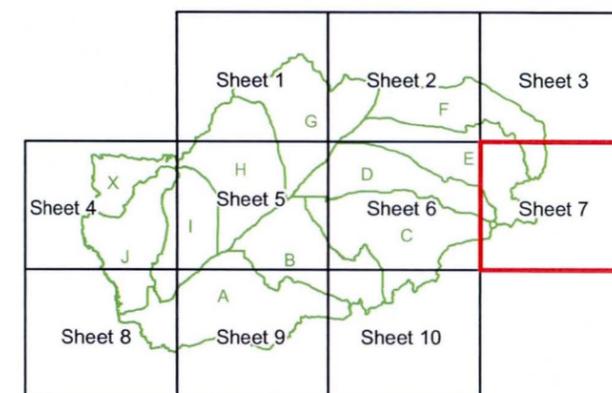
Figure 5A  
Sheet 7 of 10



### Project Features

- Watershed Boundary
- Watershed Name

See Figure 5B, Key to Land Use Maps, for detailed land use legend.



### Reference Features

- County Boundary
- Township and Range Boundary
- Interstate Highway/ Freeway
- Major Road
- Railroad

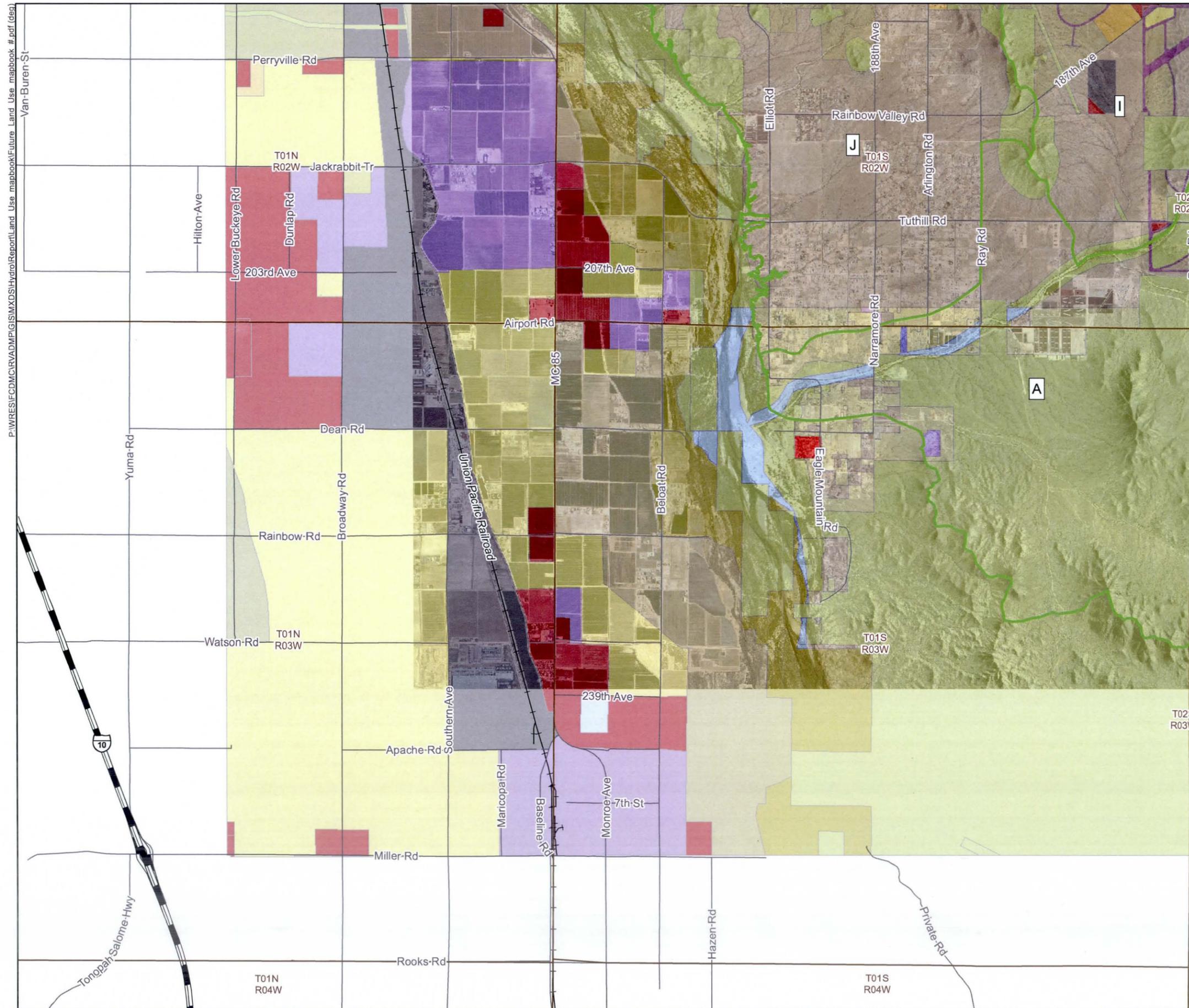
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Flood Control District of Maricopa County  
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 MrSid Imagery, 2006-2007  
 Arizona Land Resource Information System  
 Railroad Data, 1994

Rainbow Valley  
Area Drainage Master Plan  
Future Land Use



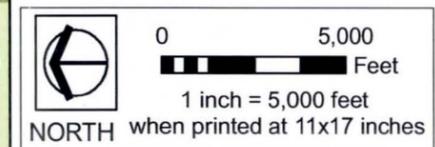
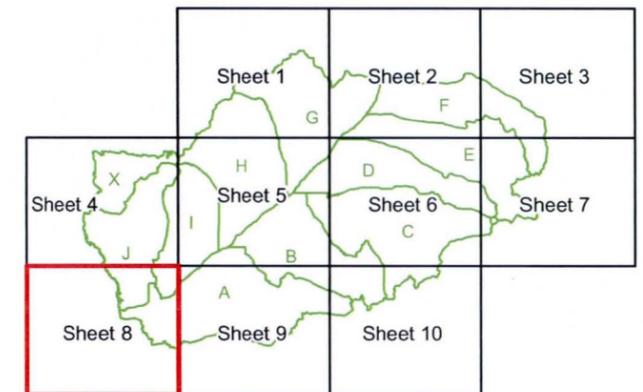
Figure 5A  
Sheet 8 of 10



**Project Features**

- Watershed Boundary
- Watershed Name

See Figure 5B, Key to Land Use Maps, for detailed land use legend.



**Reference Features**

- County Boundary
- Township and Range Boundary
- Interstate Highway/ Freeway
- Major Road
- Railroad

**Data Sources**

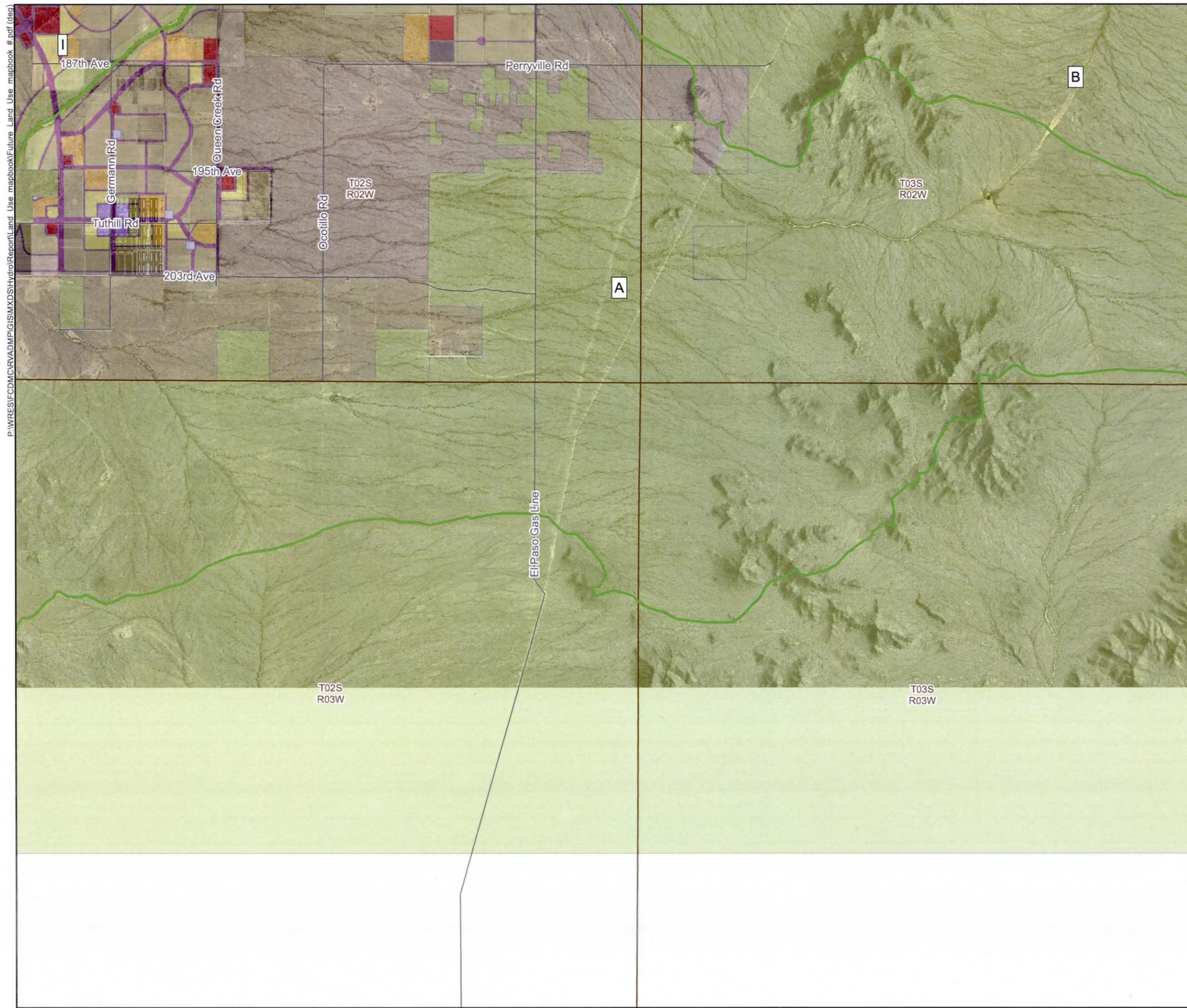
- Flood Control District of Maricopa County
- Base Vector Data, 2008
- Future Land Use Data, 2008
- MrSid Imagery, 2006-2007
- Arizona Land Resource Information System
- Railroad Data, 1994

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Rainbow Valley  
Area Drainage Master Plan  
Future Land Use



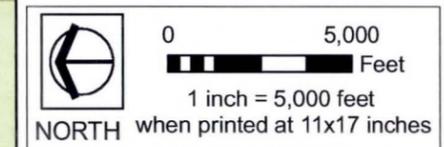
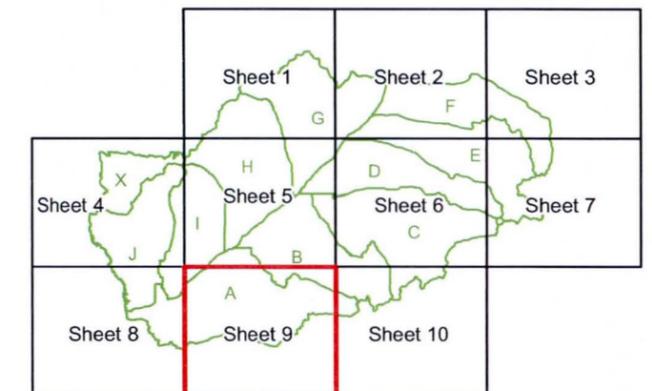
Figure 5A  
Sheet 9 of 10



**Project Features**

- Watershed Boundary
- Watershed Name

See Figure 5B, Key to Land Use Maps, for detailed land use legend.



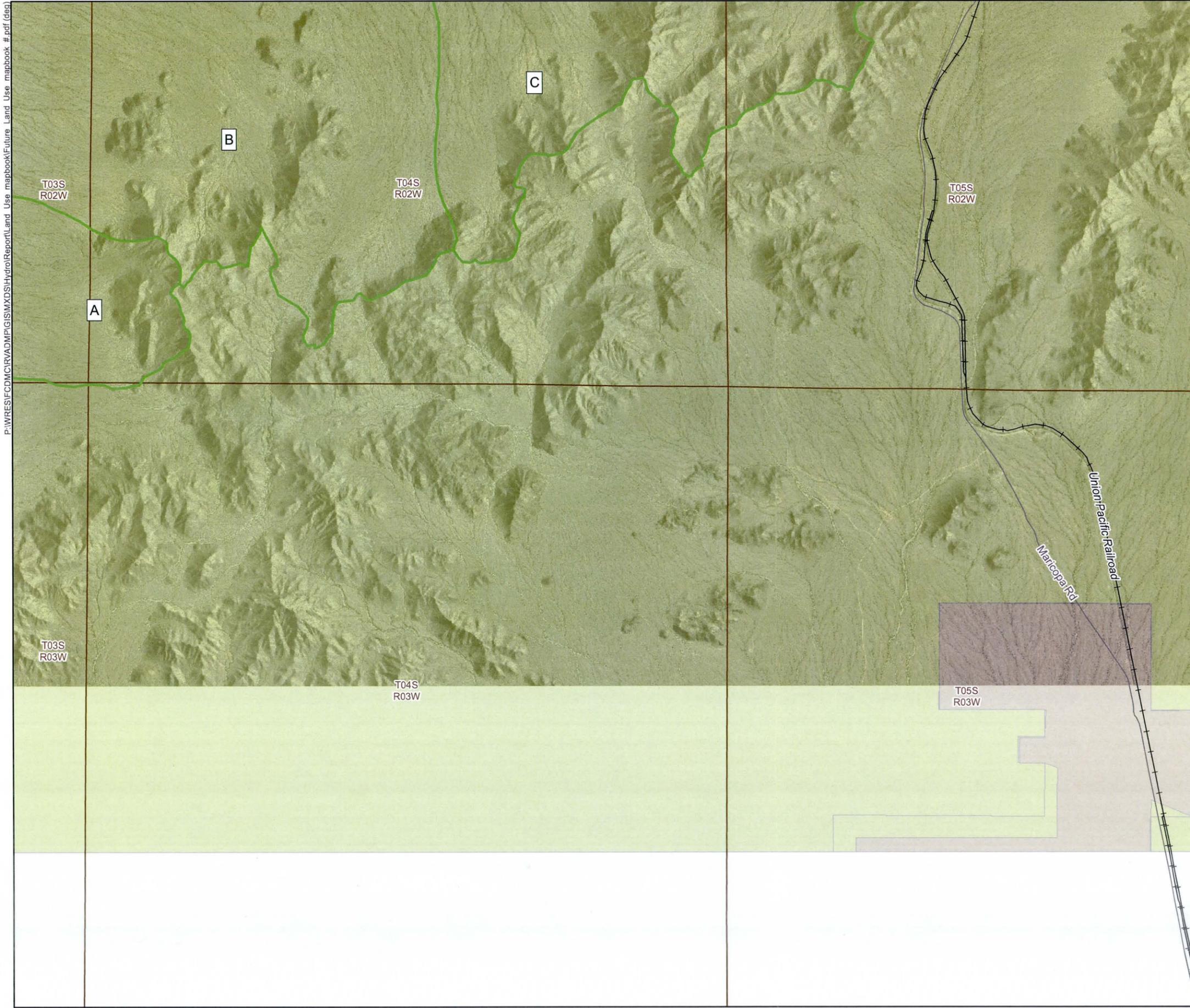
**Reference Features**

- County Boundary
- Township and Range Boundary
- Interstate Highway/ Freeway
- Major Road
- Railroad

**Data Sources**

- Flood Control District of Maricopa County
- Base Vector Data, 2008
- Future Land Use Data, 2008
- MrSid Imagery, 2006-2007
- Arizona Land Resource Information System
- Railroad Data, 1994

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Rainbow Valley  
Area Drainage Master Plan  
Future Land Use

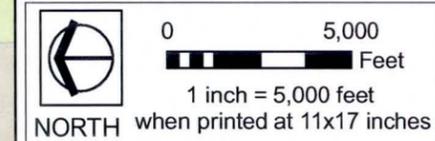
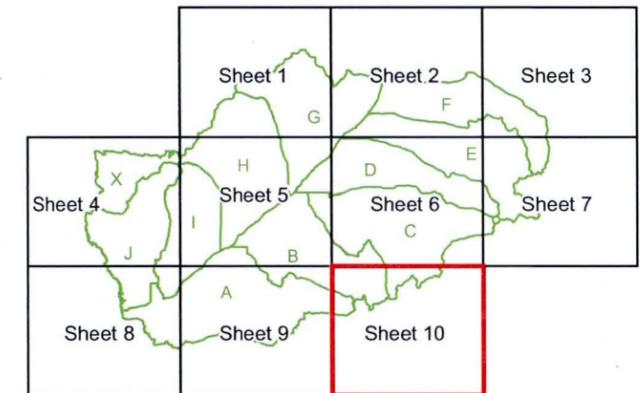


Figure 5A  
Sheet 10 of 10

**Project Features**

- Watershed Boundary
- Watershed Name

See Figure 5B, Key to Land Use Maps, for detailed land use legend.



**Reference Features**

- County Boundary
- Township and Range Boundary
- Interstate Highway/Freeway
- Major Road
- Railroad

**Data Sources**

- Flood Control District of Maricopa County
- Base Vector Data, 2008
- Future Land Use Data, 2008
- MrSid Imagery, 2006-2007
- Arizona Land Resource Information System
- Railroad Data, 1994

**Figure 5B**  
**Key to Future Land Use Maps**

**Residential**

-  Very Small Lot Residential (Includes Mobile Homes)
-  Small Lot Residential
-  Medium Lot Residential
-  Large Lot Residential
-  Very Low Density Residential
-  Low Density Residential; Low Density Residential
-  Low-Medium Density Residential
-  Medium Density Residential; Future Medium Density Residential
-  Medium High Density Residential; Medium-High Density Residential
-  High Density Residential
-  Very High Density Residential
-  Rural Residential
-  Estate Residential

**Public/Quasi Public**

-  Public Facilities – Government Center/Limited Use/Special Event/Large Facility/Public Service/Military
-  Public/Quasi-public
-  Medical – Institutions/Assisted Care Facilities/Nursing Homes
-  Educational
-  Cemetery

**Open Space**

-  Park/Golf Course
-  Open Space – Active/Passive/Restrictive/Local/Residential
-  Undeveloped Desert

**Industrial/Commercial**

-  Industrial
-  Commerical Low - Amusement/Specialty
-  Commercial High – Neighborhood/Regional/Community
-  Employment - City or Village Center/Professional Office/Business Park/Landfill/Sand and Gravel/etc.
-  Airport

**Other**

-  Agriculture
-  Mixed Use
-  Transporation/Parking; Roadway
-  Religious Institutions
-  Riverbed, Floodplain, Floodway
-  Water

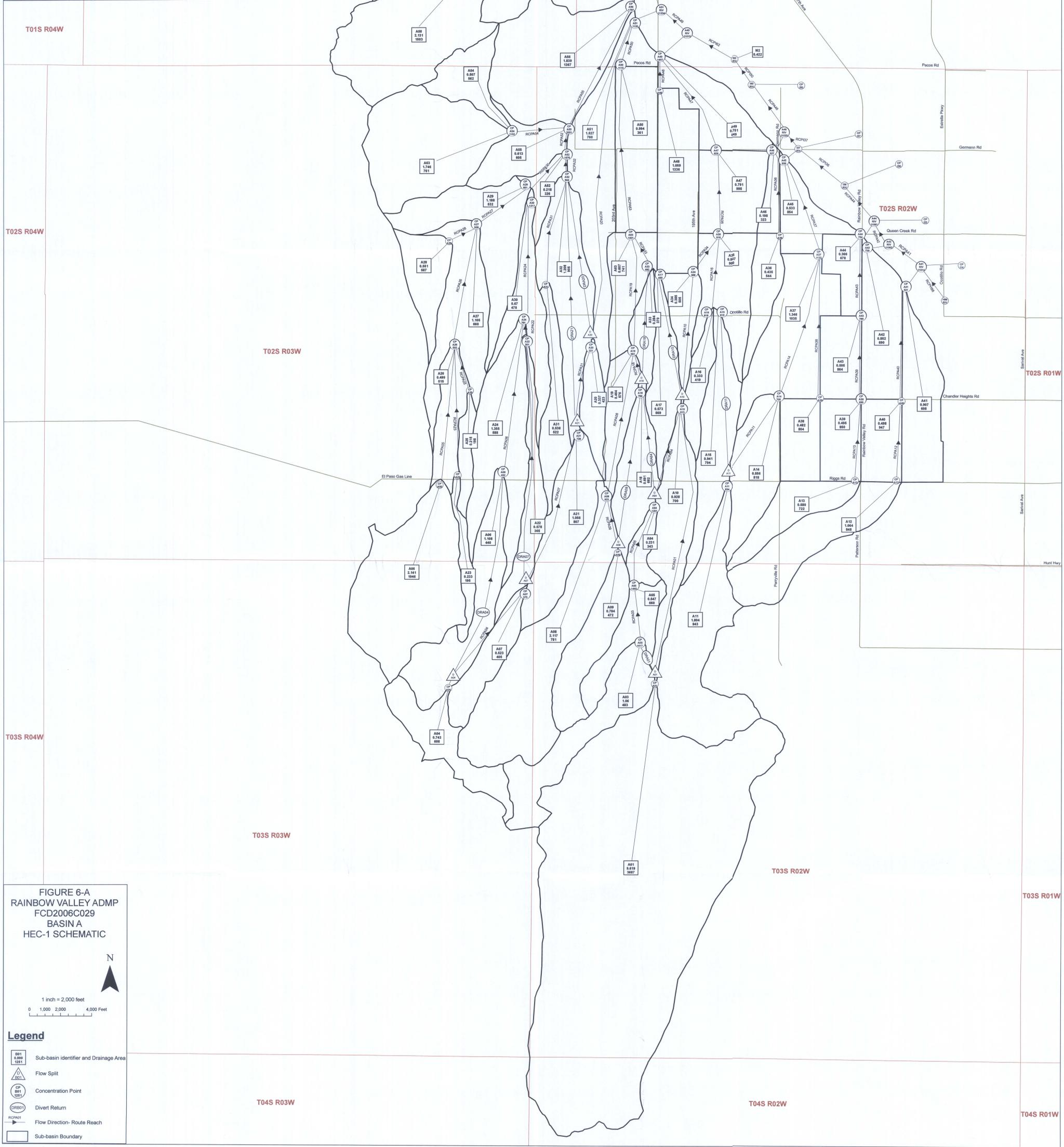


FIGURE 6-A  
RAINBOW VALLEY ADMP  
FCD2006C029  
BASIN A  
HEC-1 SCHEMATIC



1 inch = 2,000 feet  
0 1,000 2,000 4,000 Feet

- Legend**
- Sub-basin identifier and Drainage Area
  - Flow Split
  - Concentration Point
  - Divert Return
  - Flow Direction-Route Reach
  - Sub-basin Boundary

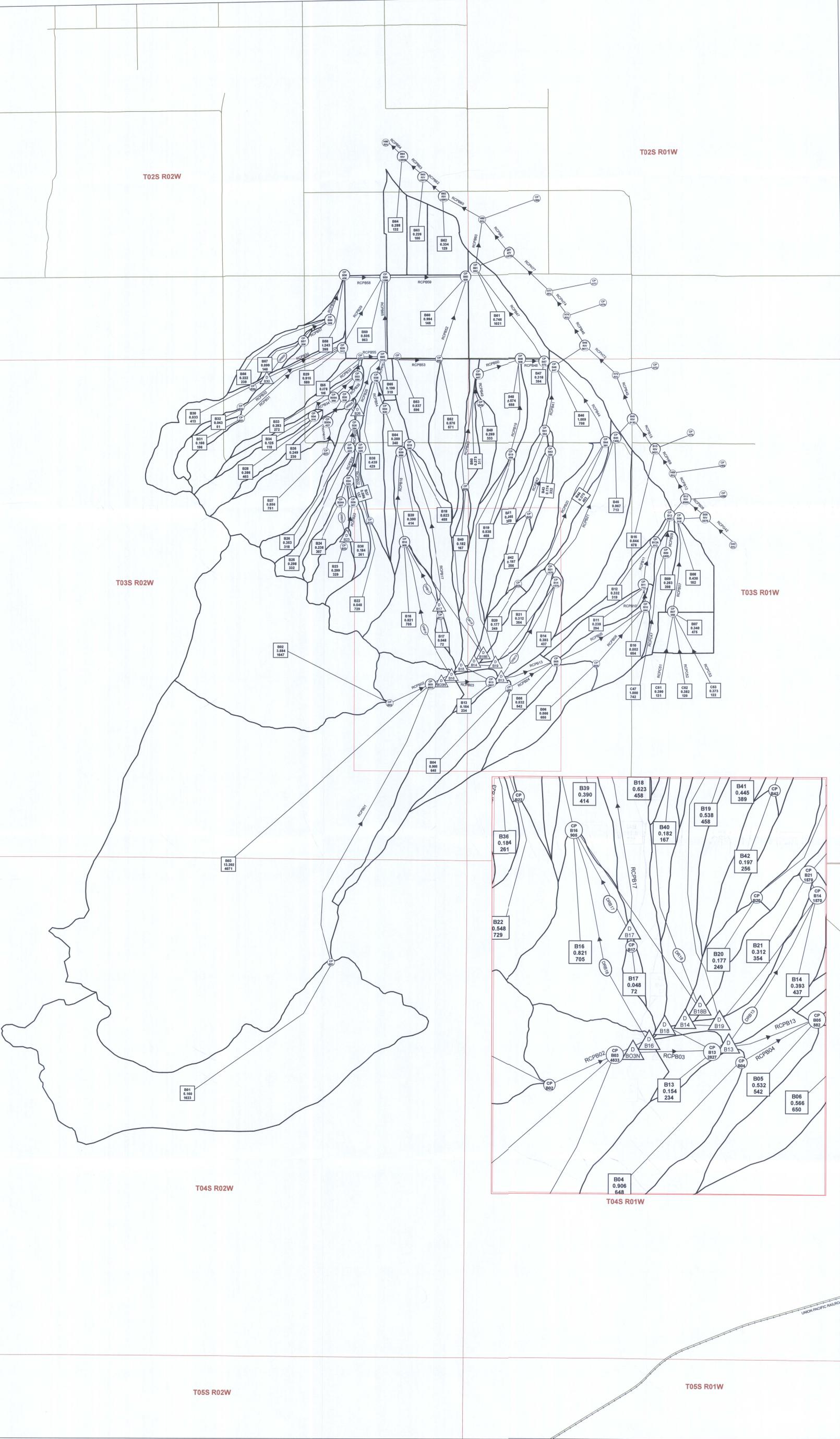
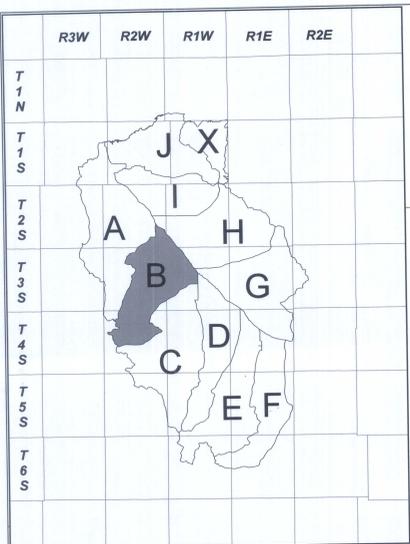


FIGURE 6-B  
 RAINBOW VALLEY ADMP  
 FCD2006C029  
 BASIN B  
 HEC-1 SCHEMATIC

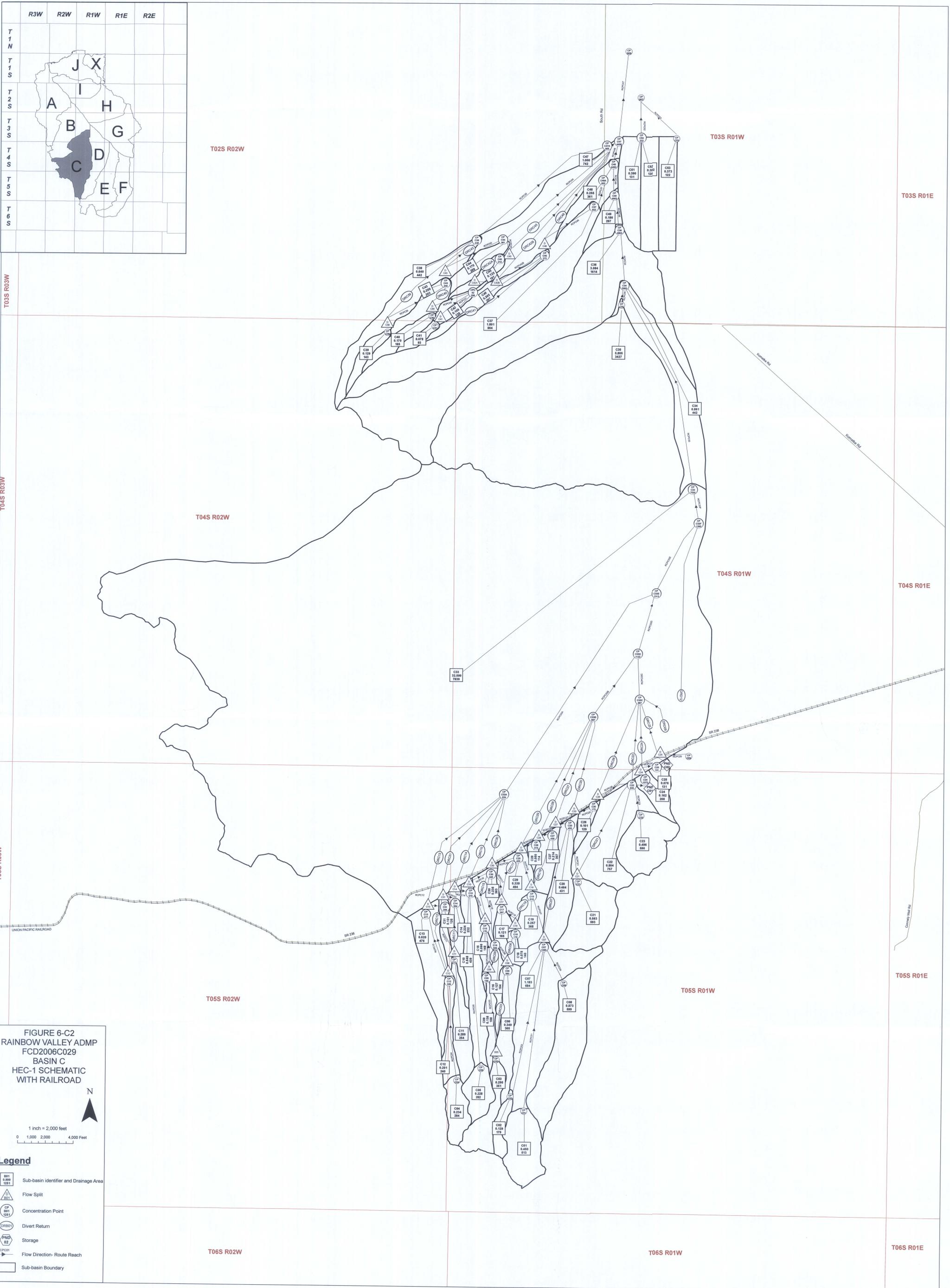


1 inch = 2,000 feet  
 0 750 1,500 3,000 Feet

**Legend**

- Sub-basin identifier and Drainage Area
- Flow Split
- Concentration Point
- Divert Return
- Flow Direction-Route Reach
- Sub-basin Boundary

UNION PACIFIC RAILROAD



**FIGURE 6-C2**  
**RAINBOW VALLEY ADMP**  
**FCD2006C029**  
**BASIN C**  
**HEC-1 SCHEMATIC**  
**WITH RAILROAD**

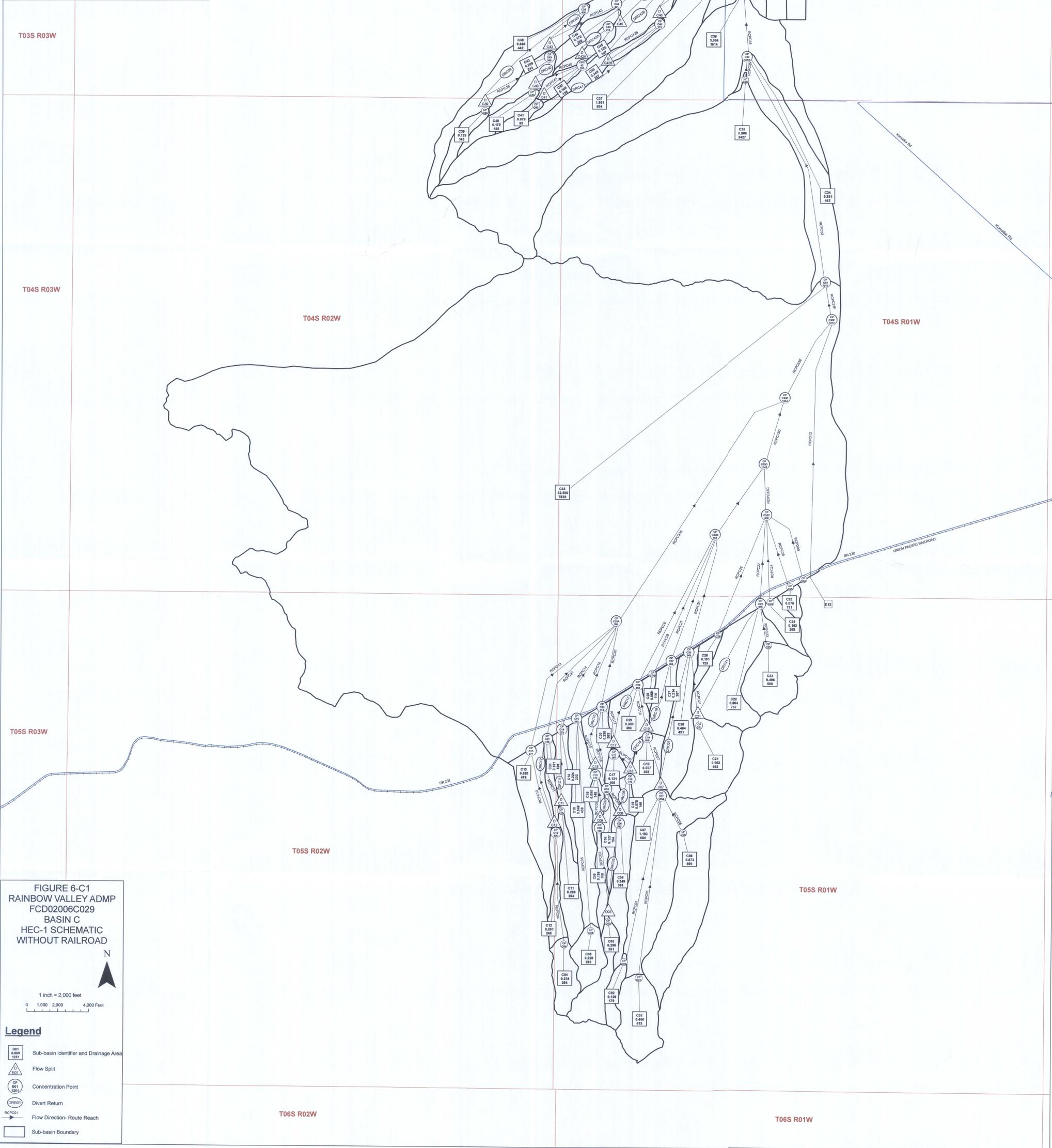
N

1 inch = 2,000 feet  
 0 1,000 2,000 4,000 Feet

**Legend**

- Sub-basin identifier and Drainage Area
- Flow Split
- Concentration Point
- Divert Return
- Storage
- Flow Direction-Route Reach
- Sub-basin Boundary

T06S R02W T06S R01W T06S R01E



**FIGURE 6-C1**  
**RAINBOW VALLEY ADMP**  
**FCD02006C029**  
**BASIN C**  
**HEC-1 SCHEMATIC**  
**WITHOUT RAILROAD**

**Legend**

- Sub-basin identifier and Drainage Area
- Flow Split
- Concentration Point
- Divert Return
- Flow Direction-Route Reach
- Sub-basin Boundary

1 inch = 2,000 feet  
 0 1,000 2,000 4,000 Feet



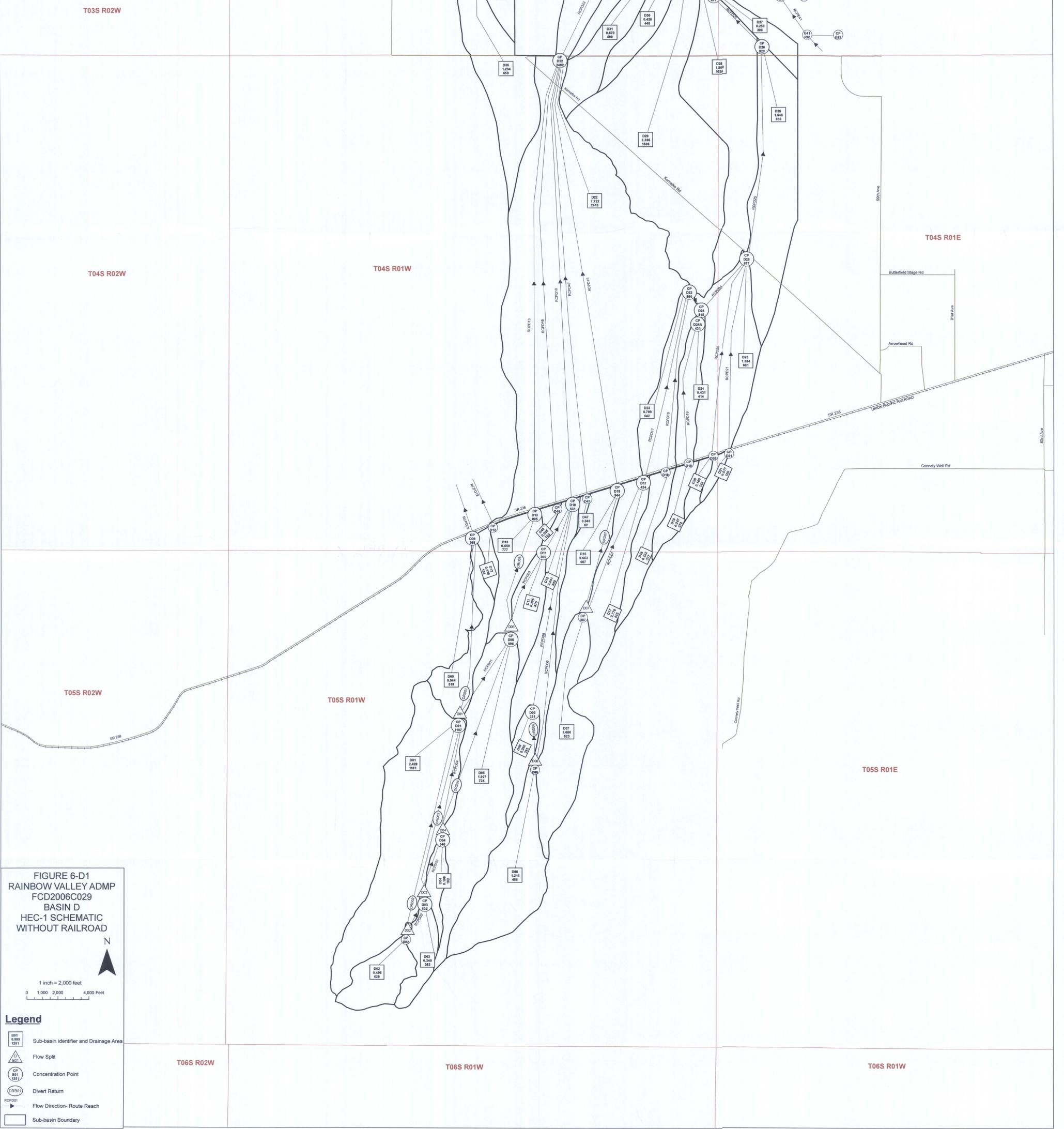
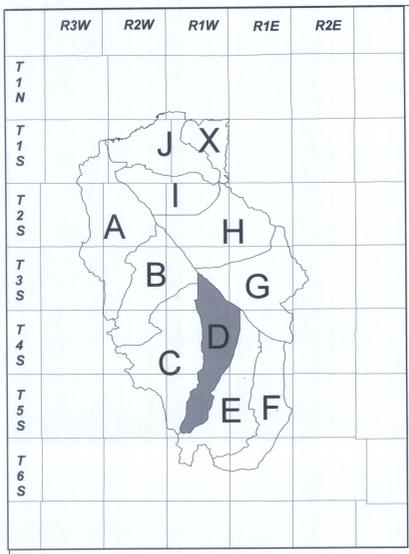


FIGURE 6-D1  
 RAINBOW VALLEY ADMP  
 FCD2006C029  
 BASIN D  
 HEC-1 SCHEMATIC  
 WITHOUT RAILROAD

N

1 inch = 2,000 feet  
 0 1,000 2,000 4,000 Feet

**Legend**

- Sub-basin identifier and Drainage Area
- Flow Split
- Concentration Point
- Divert Return
- Flow Direction-Route Reach
- Sub-basin Boundary

T06S R02W

T06S R01W

T06S R01E

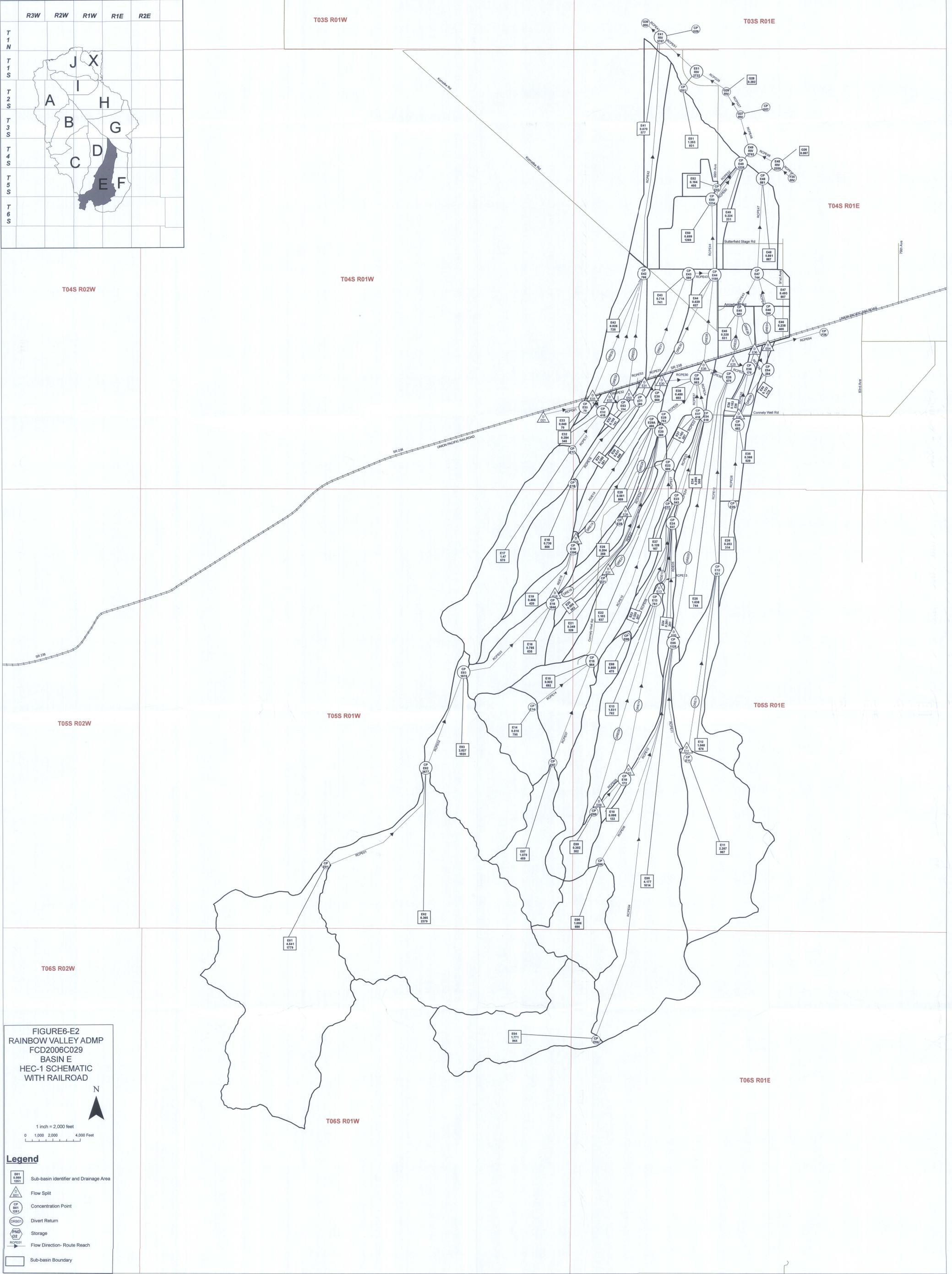
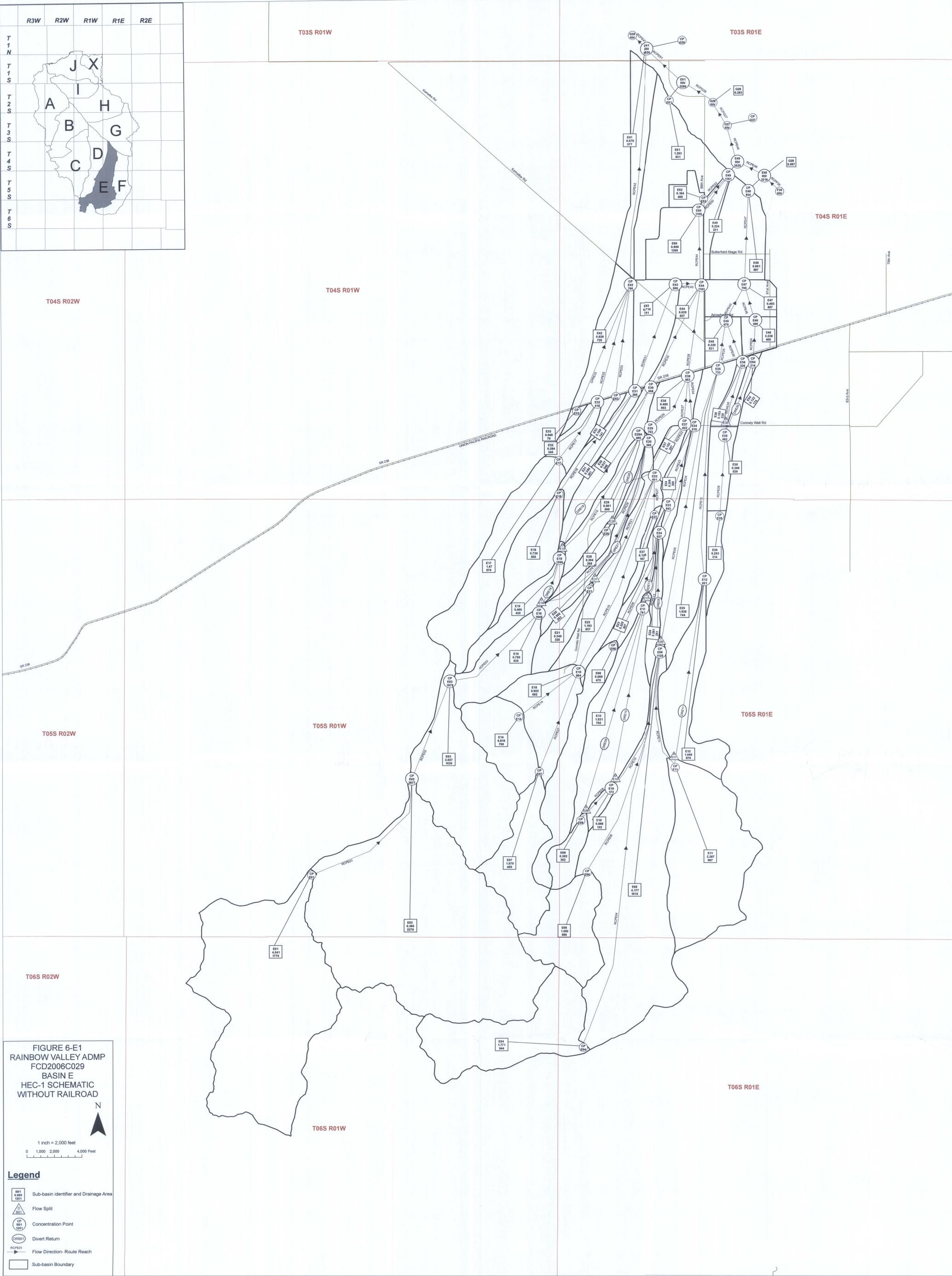


FIGURE 6-E2  
 RAINBOW VALLEY ADMP  
 FCD2006C029  
 BASIN E  
 HEC-1 SCHEMATIC  
 WITH RAILROAD



1 inch = 2,000 feet  
 0 1,000 2,000 4,000 Feet

- Legend**
- E01  
0.899  
1281 Sub-basin identifier and Drainage Area
  - △  
BS1 Flow Split
  - CP  
001  
1255 Concentration Point
  - (CRB01) Divert Return
  - PND  
02 Storage
  - RCP001 Flow Direction-Route Reach
  - Sub-basin Boundary

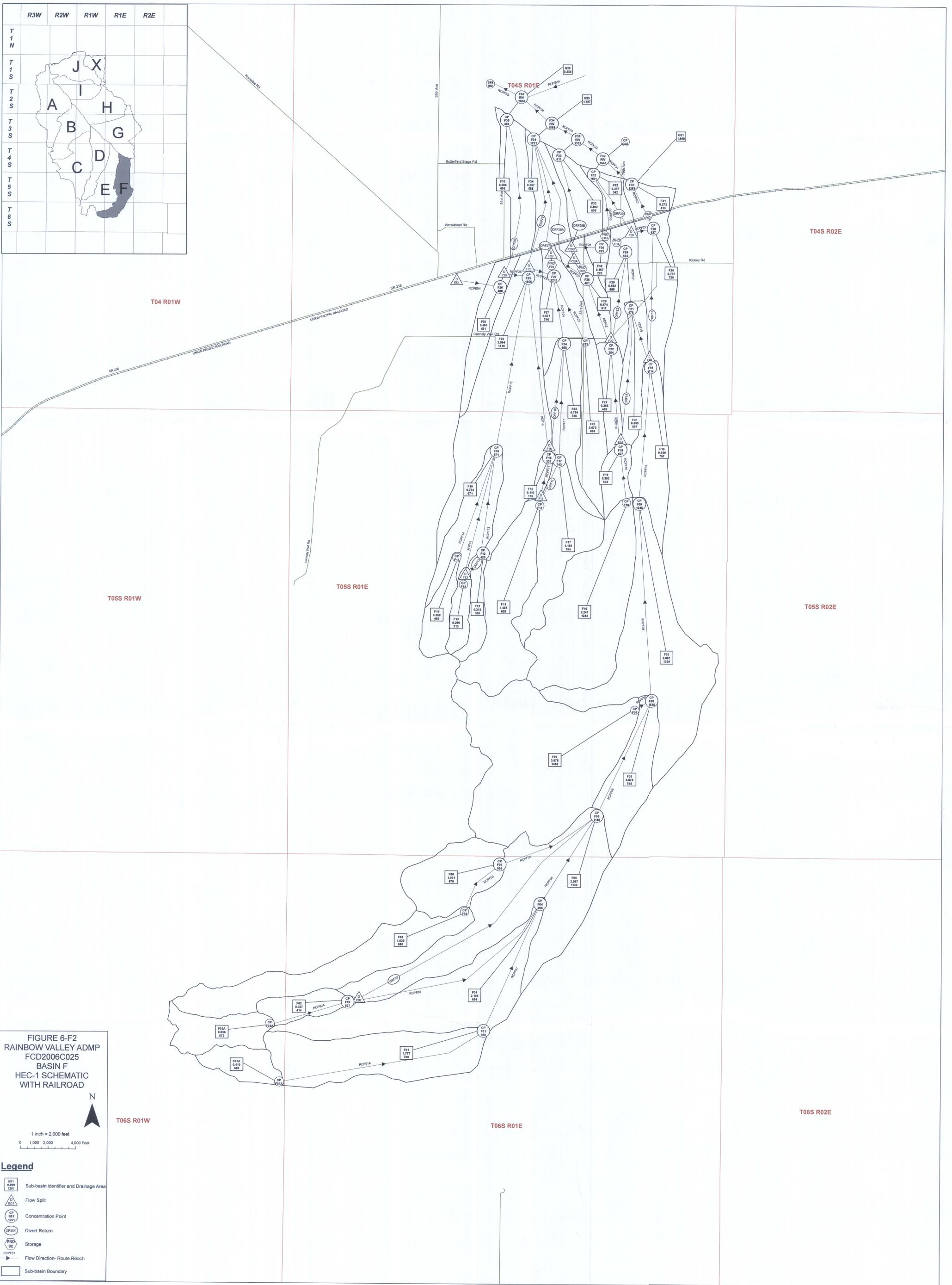


**FIGURE 6-E1**  
**RAINBOW VALLEY ADMP**  
**FCD2006C029**  
**BASIN E**  
**HEC-1 SCHEMATIC**  
**WITHOUT RAILROAD**

1 inch = 2,000 feet  
 0 1,000 2,000 4,000 Feet

**Legend**

- Sub-basin identifier and Drainage Area
- Flow Split
- Concentration Point
- Divert Return
- Flow Direction- Route Reach
- Sub-basin Boundary



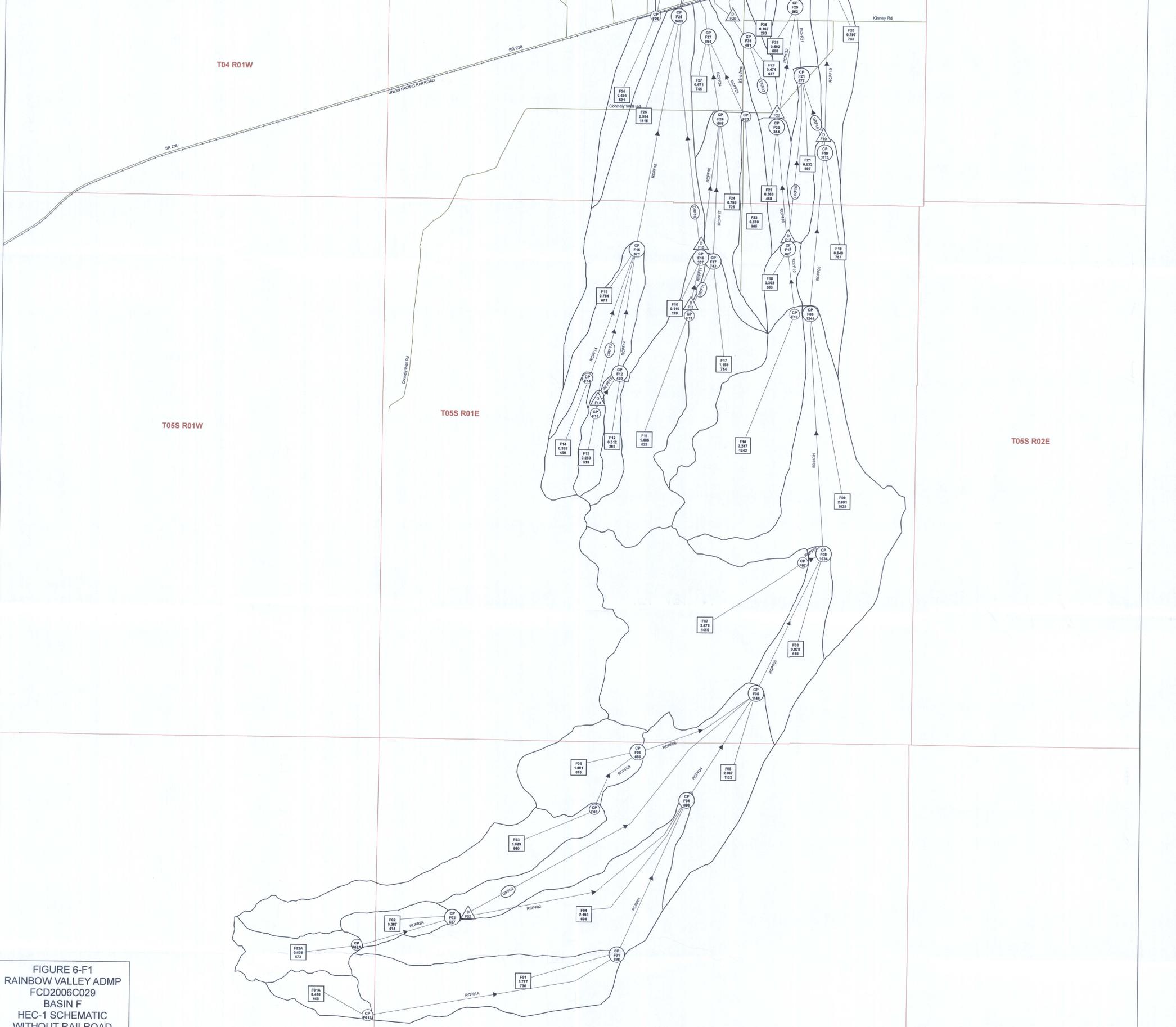
**FIGURE 6-F2**  
**RAINBOW VALLEY ADMP**  
**FCD2006C025**  
**BASIN F**  
**HEC-1 SCHEMATIC**  
**WITH RAILROAD**

N

1 inch = 2,000 feet  
 0 1,000 2,000 4,000 Feet

**Legend**

- Sub-basin identifier and Drainage Area
- Flow Split
- Concentration Point
- Divert Return
- Storage
- Flow Direction- Route Reach
- Sub-basin Boundary



**FIGURE 6-F1**  
**RAINBOW VALLEY ADMP**  
**FCD2006C029**  
**BASIN F**  
**HEC-1 SCHEMATIC**  
**WITHOUT RAILROAD**

N

1 inch = 2,000 feet  
 0 1,000 2,000 4,000 Feet

**Legend**

- Sub-basin identifier and Drainage Area
- Flow Split
- Concentration Point
- Divert Return
- Flow Direction-Route Reach
- Sub-basin Boundary



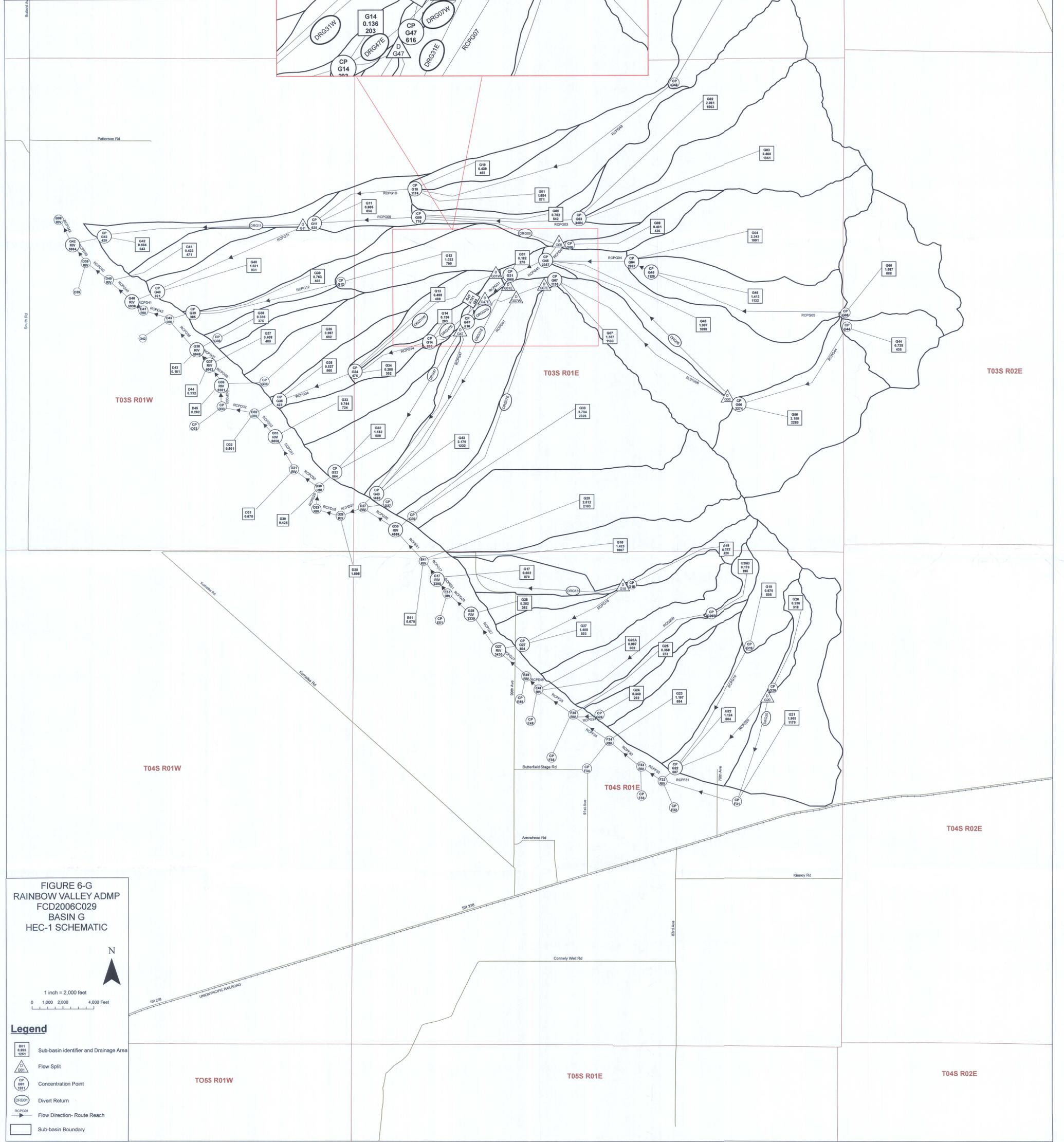
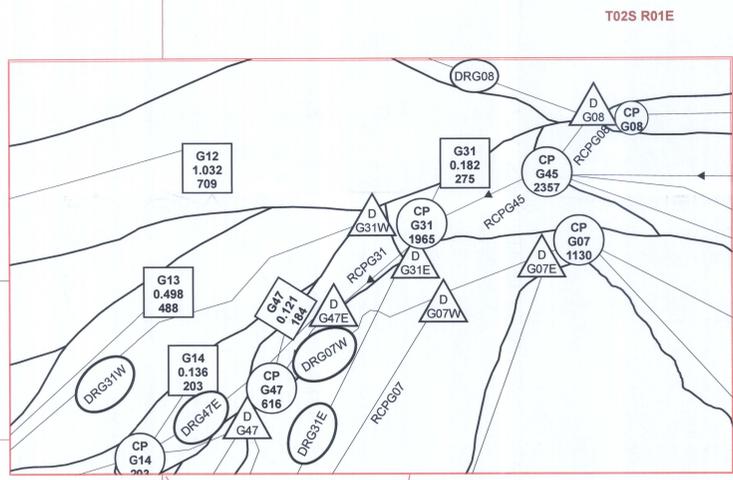
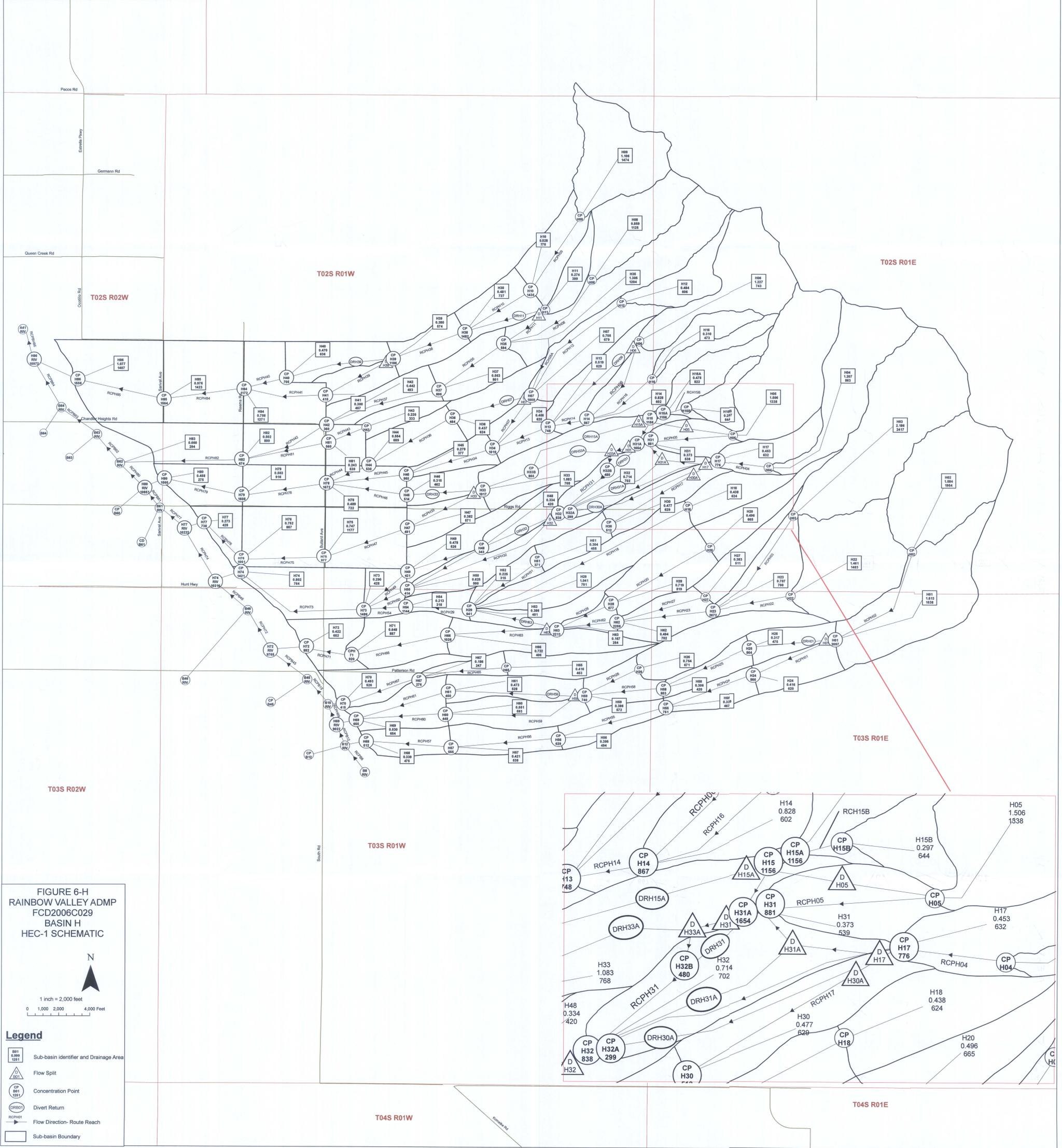
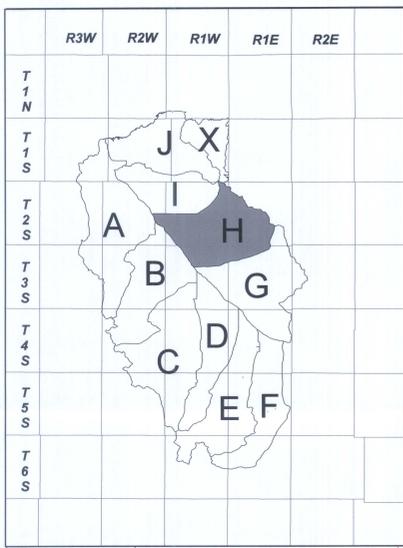


FIGURE 6-G  
RAINBOW VALLEY ADMP  
FCD2006C029  
BASIN G  
HEC-1 SCHEMATIC



1 inch = 2,000 feet  
0 1,000 2,000 4,000 Feet

- Legend**
- Sub-basin identifier and Drainage Area
  - Flow Split
  - Concentration Point
  - Divert Return
  - Flow Direction-Route Reach
  - Sub-basin Boundary



**FIGURE 6-H**  
**RAINBOW VALLEY ADMP**  
**FCD2006C029**  
**BASIN H**  
**HEC-1 SCHEMATIC**

1 inch = 2,000 feet  
 0 1,000 2,000 4,000 Feet

**Legend**

- Sub-basin identifier and Drainage Area
- Flow Split
- Concentration Point
- Diverter Return
- Flow Direction- Route Reach
- Sub-basin Boundary

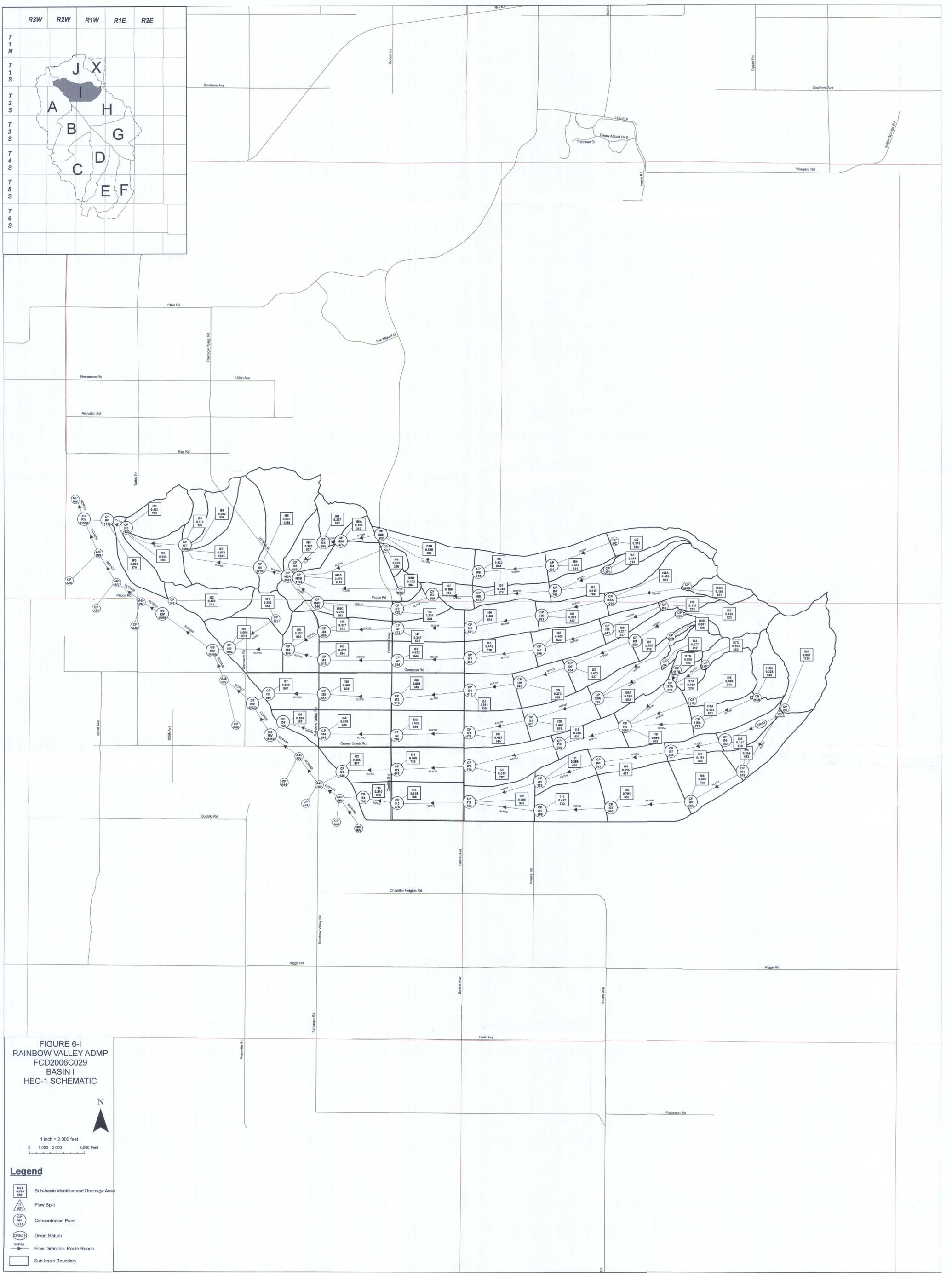


FIGURE 6-1  
 RAINBOW VALLEY ADMP  
 FCD2006C029  
 BASIN I  
 HEC-1 SCHEMATIC



1 inch = 2,000 feet  
 0 1,000 2,000 4,000 Feet

**Legend**

- 81  
0.999  
128.1 Sub-basin identifier and Drainage Area
- 81 Flow Split
- CP  
891  
125.1 Concentration Point
- DR81 Divert Return
- RCP81 Flow Direction-Route Reach
- Sub-basin Boundary

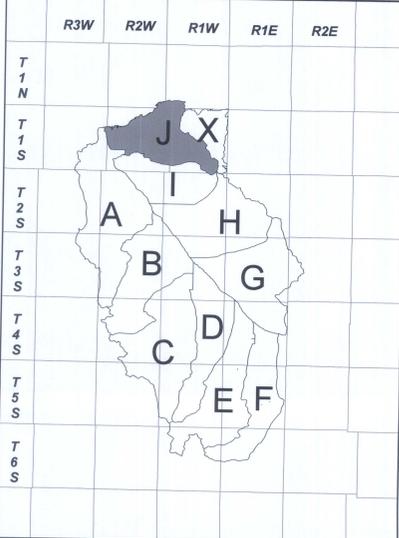
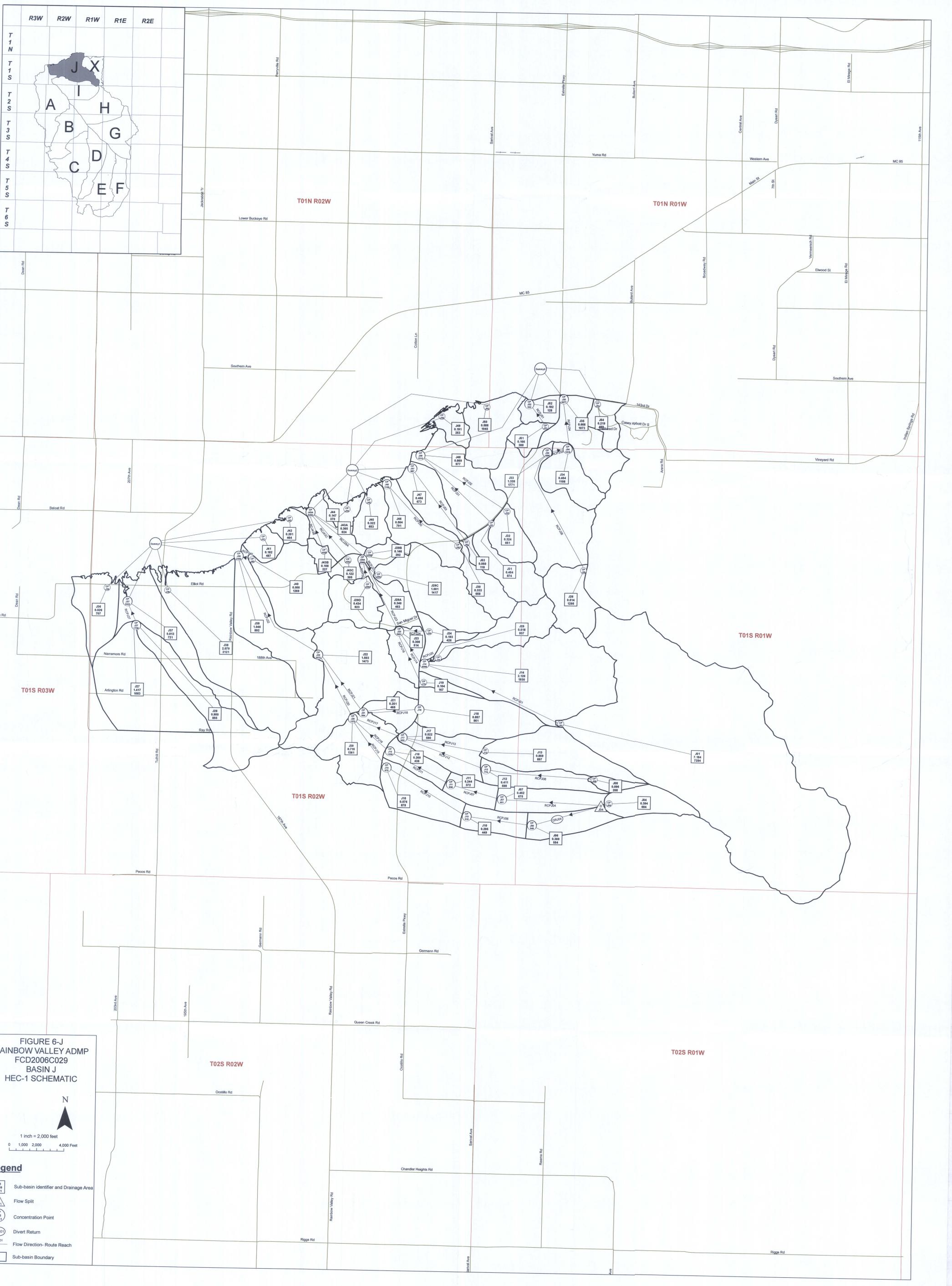
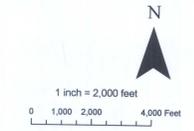
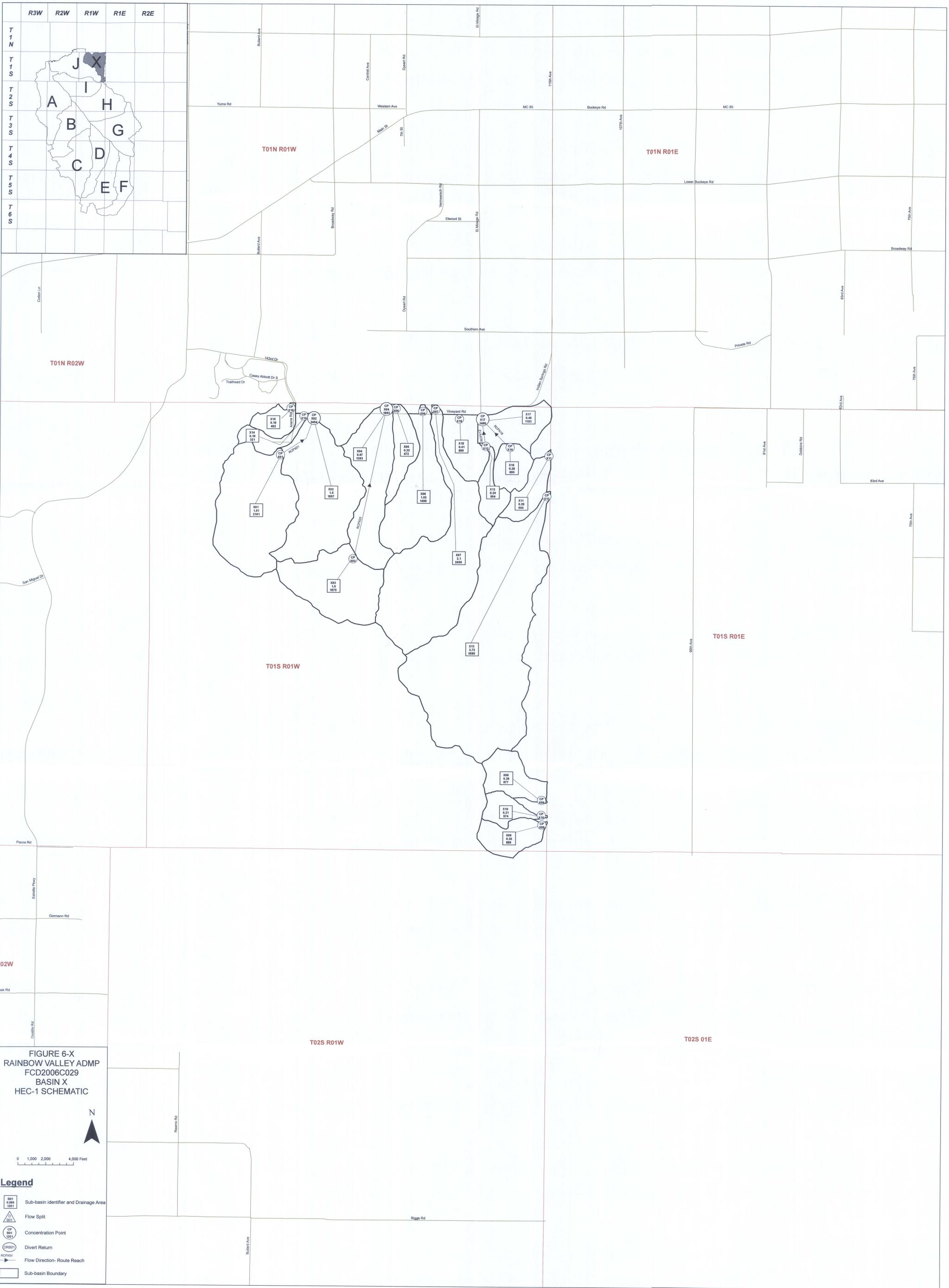


FIGURE 6-J  
 RAINBOW VALLEY ADMP  
 FCD2006C029  
 BASIN J  
 HEC-1 SCHEMATIC



- Legend**
- Sub-basin identifier and Drainage Area
  - Flow Split
  - Concentration Point
  - Divert Return
  - Flow Direction-Route Reach
  - Sub-basin Boundary



**FIGURE 6-X**  
**RAINBOW VALLEY ADMP**  
**FCD2006C029**  
**BASIN X**  
**HEC-1 SCHEMATIC**

N  
 0 1,000 2,000 4,000 Feet  
**Legend**  
 Sub-basin identifier and Drainage Area  
 Flow Split  
 Concentration Point  
 Divert Return  
 Flow Direction- Route Reach  
 Sub-basin Boundary