Appendix A

Figures

KELLER associates

P:\212047 - Grants Pass Storm Water Services\GIS\Maps\Phase V\Report figures\Figure 1 Land Use and Study Area.mxd drawn by:NCJ

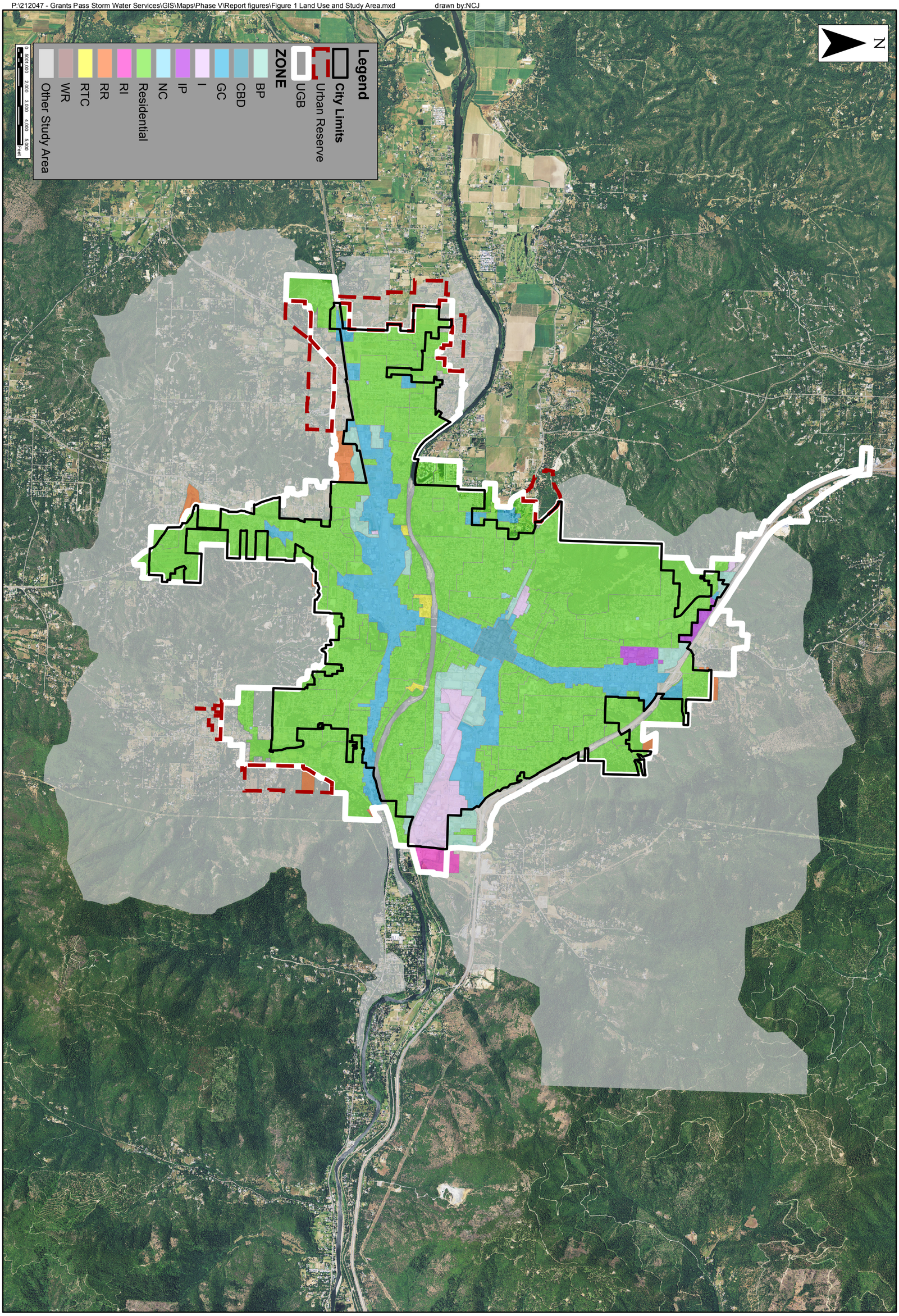


Figure:	Title:		Prepared for:		
1	LAND USE AND STUDY AREA	STORMWATER MASTER PLAN	CITY OF GRANTS PASS, OREGON	GRANTS PASS OREGON WHERE THE ROGUE RIVER RUNS	KELLER associates

P:\212047 - Grants Pass Storm Water Services\GIS\Maps\Phase V\Report figures\Figure 2 Soils.mxd drawn by:NCJ

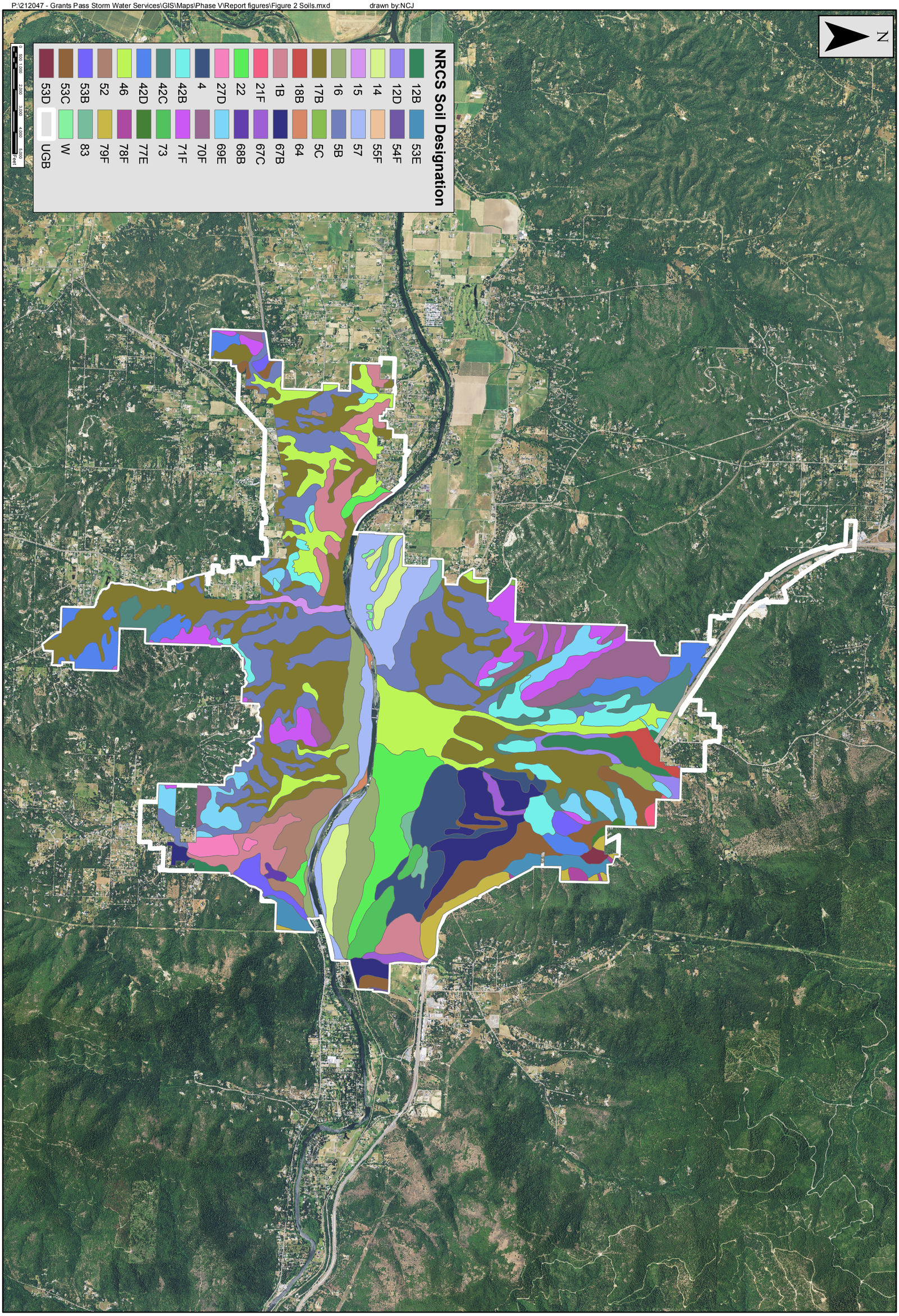
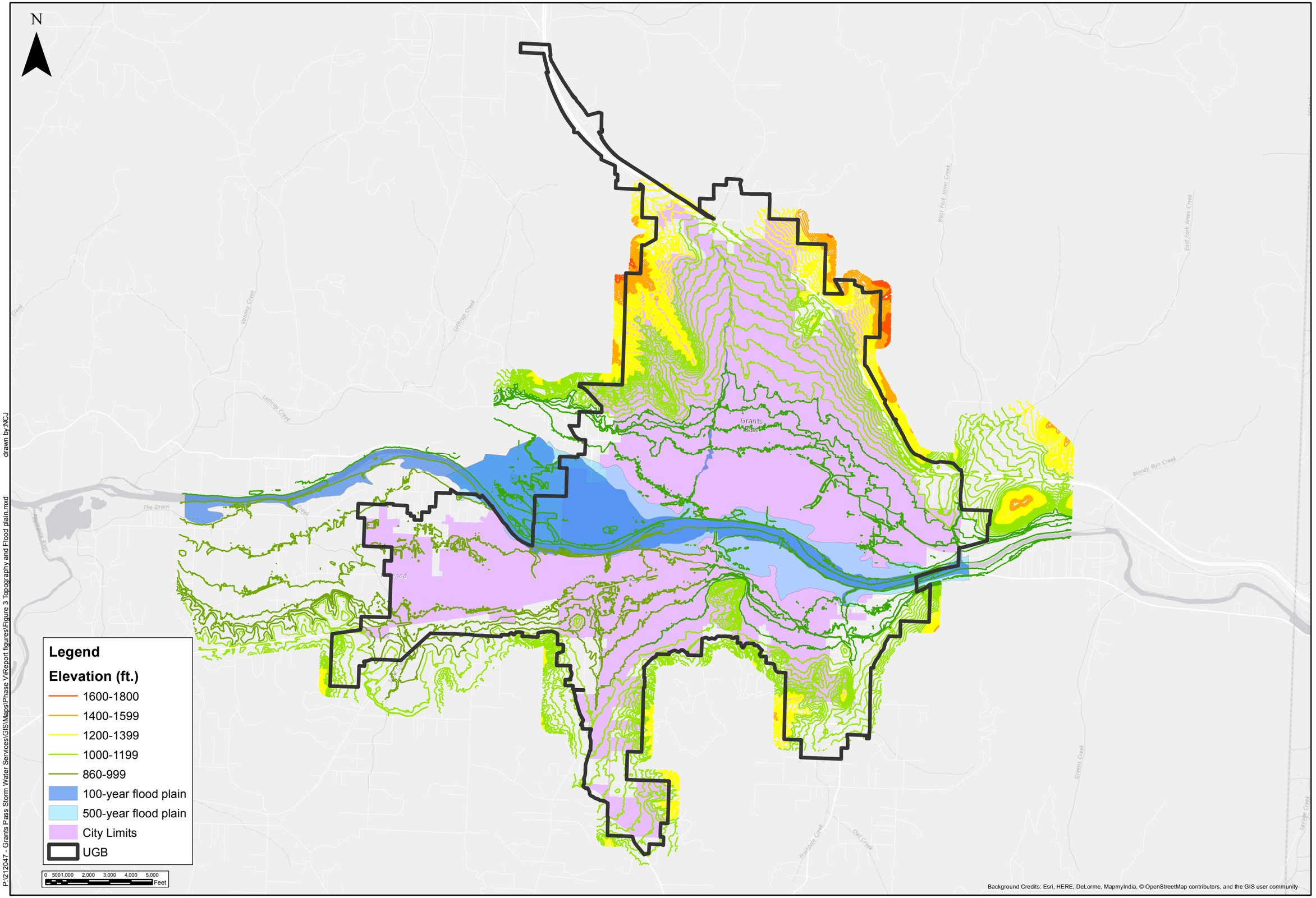


Figure:	Title:		Prepared for:		
2	SOILS	STORMWATER MASTER PLAN	CITY OF GRANTS PASS, OREGON		KELLER associates



Background Credits: Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, and the GIS user community

P:\212047 - Grants Pass Storm Water Services\GIS\Maps\Phase VI\Report figures\Figure 3 Topography and Flood plain.mxd drawn by:NCJ

KELLER associates

GRANTS PASS OREGON WHERE THE ROGUE RIVER RUNS

Prepared for:

CITY OF GRANTS PASS, OREGON

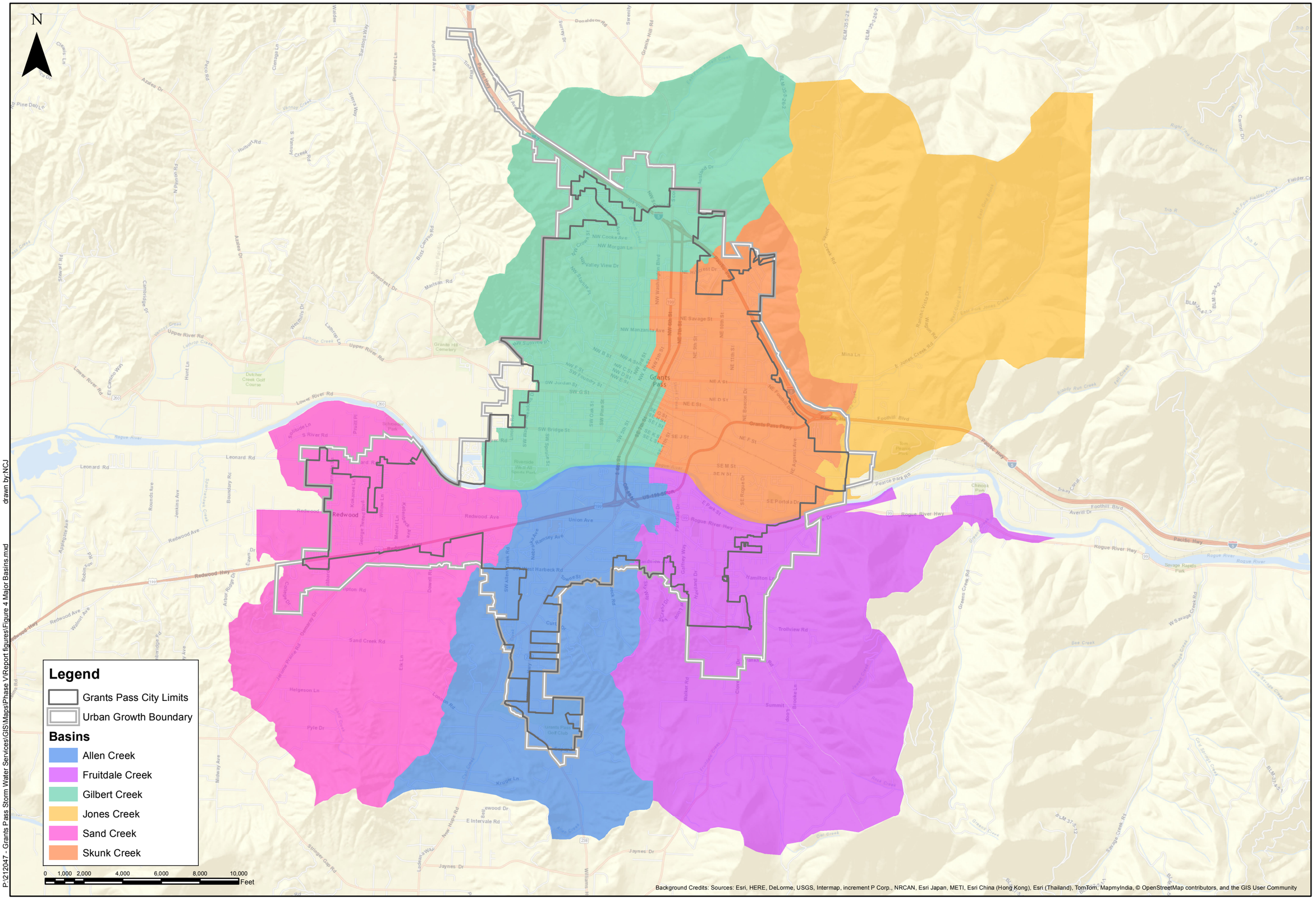
STORMWATER MASTER PLAN

Title:

TOPOGRAPHY AND FLOOD PLAIN

Figure:

3



P:\212047 - Grants Pass Storm Water Services\GIS\Maps\Phase V\Report figures\Figure 4 Major Basins.mxd drawn by:NCJ

KELLER associates

GRANTS PASS OREGON WHERE THE ROGUE RIVER RUNS

Prepared for:

CITY OF GRANTS PASS, OREGON

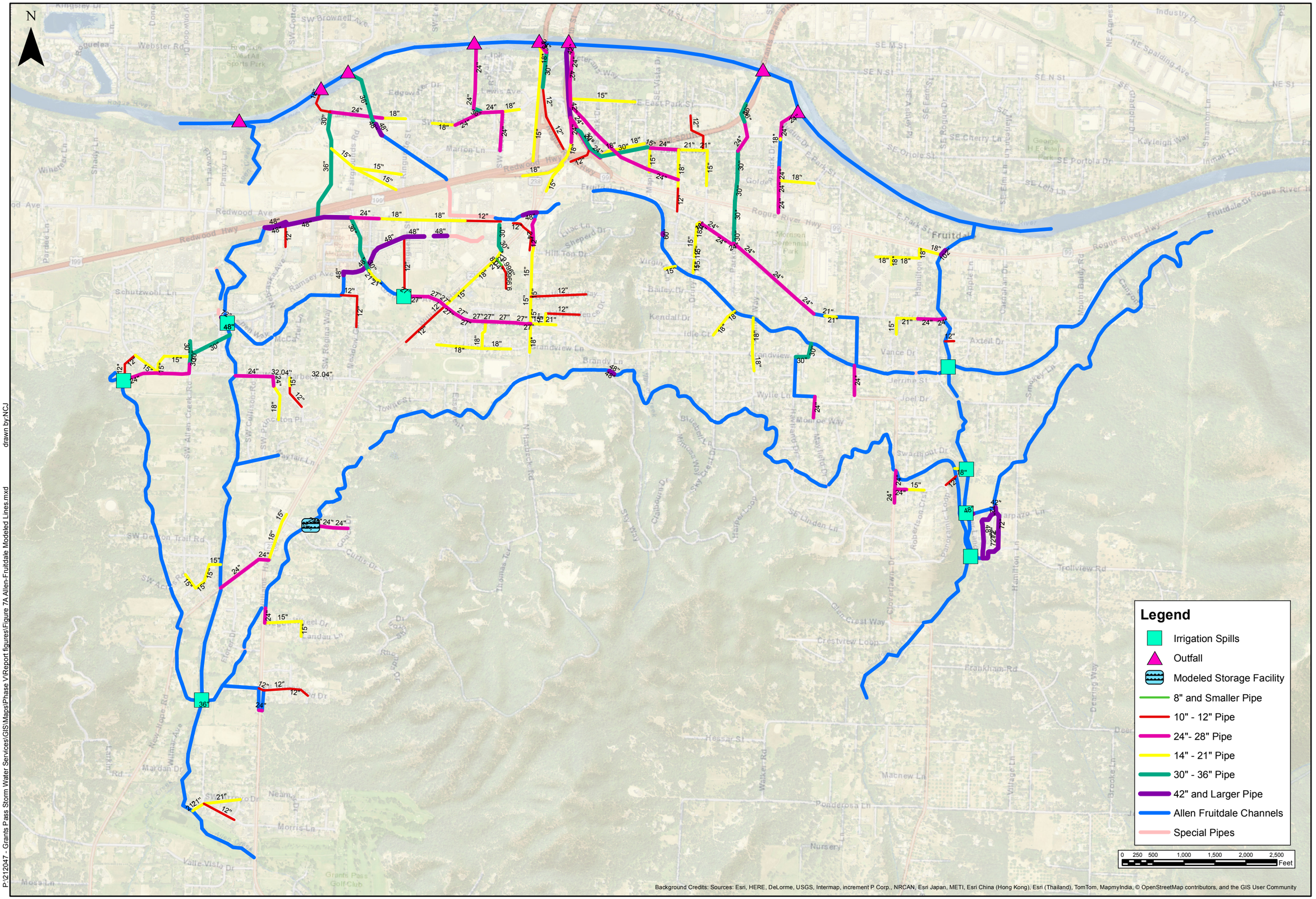
STORMWATER MASTER PLAN

Title:

MAJOR BASINS

Figure:

4



P:\212047 - Grants Pass Storm Water Services\GIS\Maps\Phase VI\Report figures\Figure 7A Allen-Fruitdale Modeled Lines.mxd drawn by:NCJ

KELLER associates

GRANTS PASS WHERE THE ROGUE RIVER RUNS

Prepared for:

CITY OF GRANTS PASS, OREGON

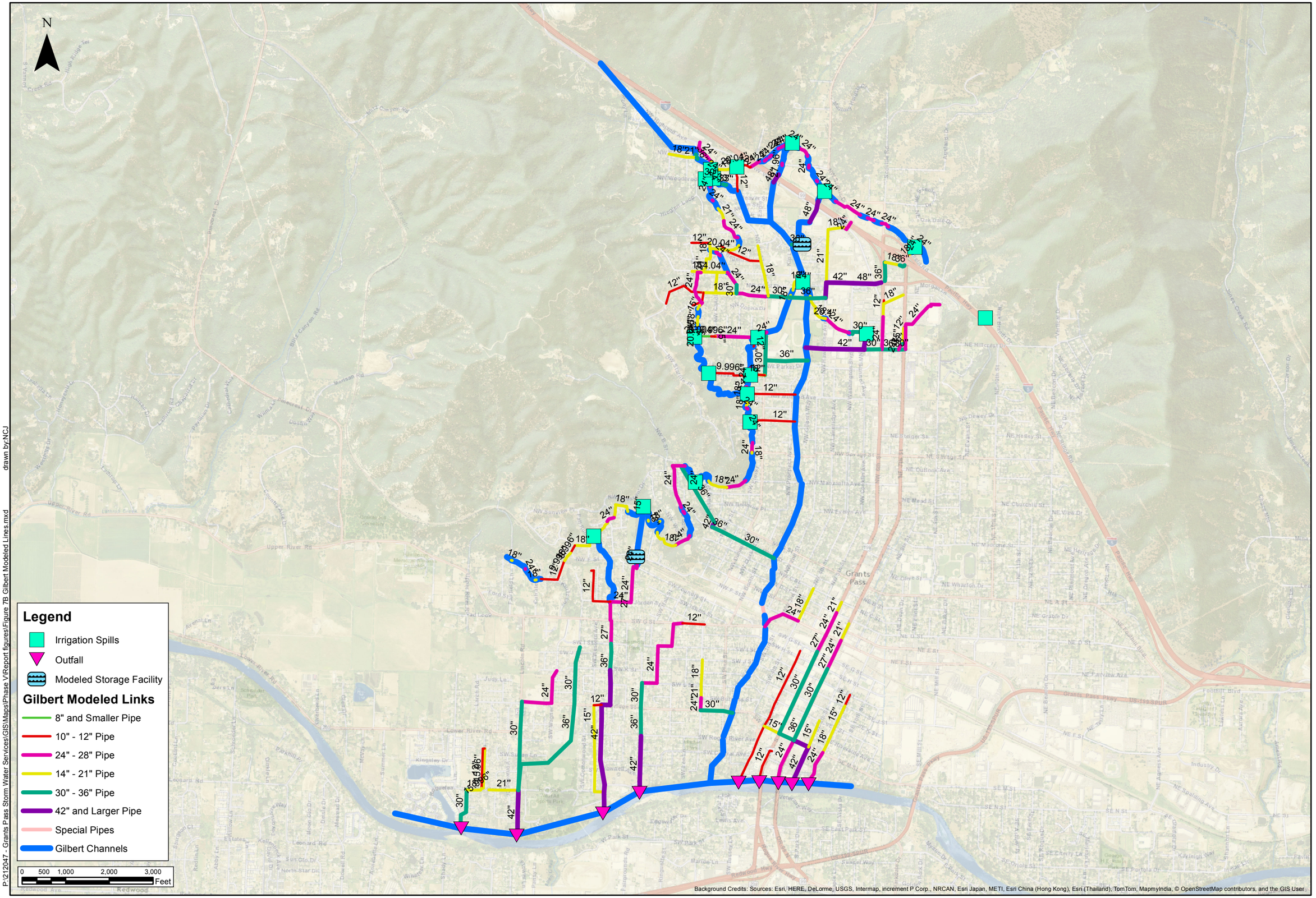
STORMWATER MASTER PLAN

Title:

ALLEN-FRUITDALE MODELED LINES

Figure:

5A



P:\212047 - Grants Pass Storm Water Services\GIS\Maps\Phase V\Report figures\Figure 7B Gilbert Modeled Lines.mxd drawn by:NCJ

KELLER associates

GRANTS PASS WHERE THE ROGUE RIVER RUNS

Prepared for:

CITY OF GRANTS PASS, OREGON

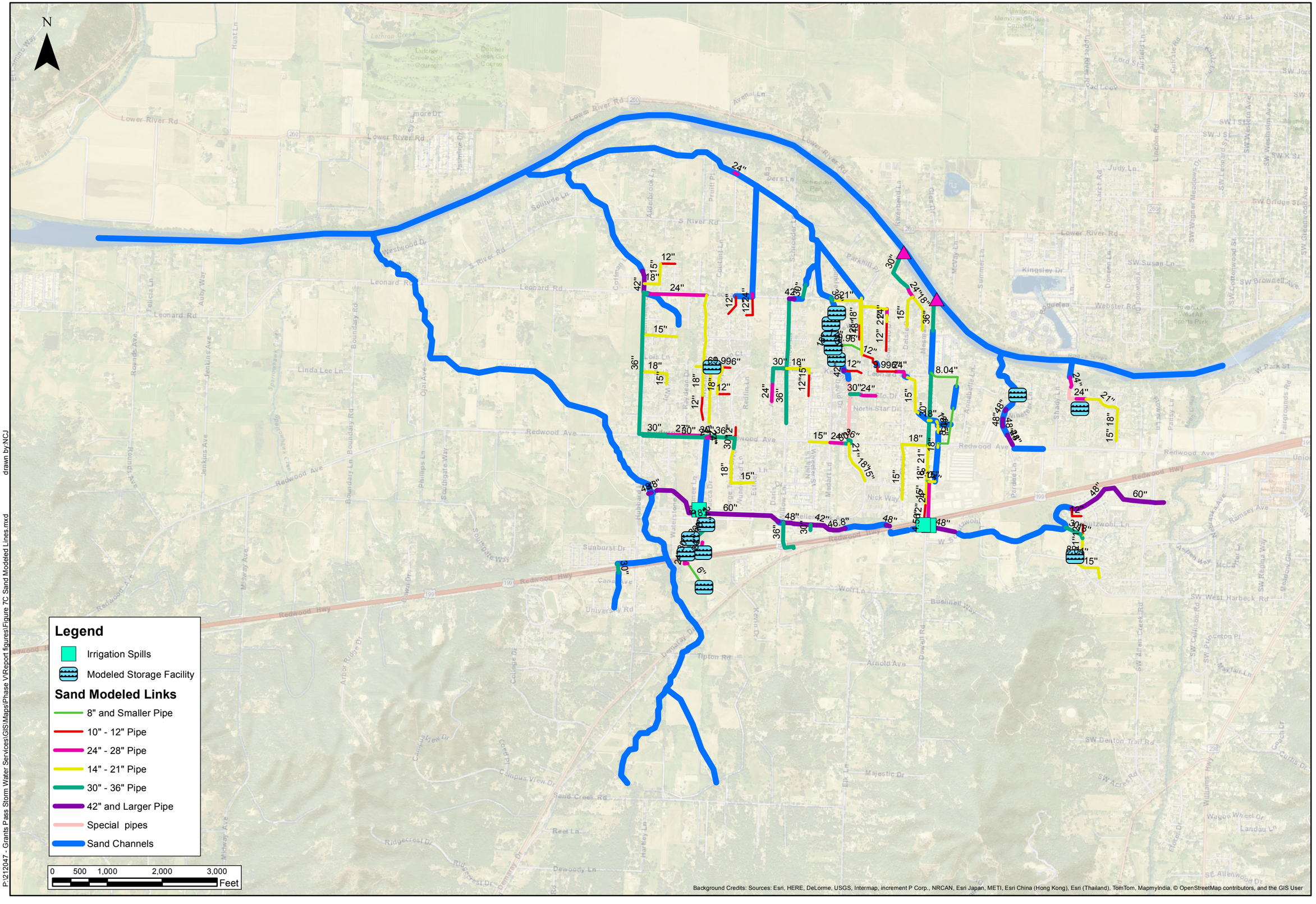
Title:

GILBERT MODELED LINES

STORMWATER MASTER PLAN

Figure:

5B



P:\212047 - Grants Pass Storm Water Services\GIS\Maps\Phase VI\Report figures\Figure 7C Sand Modeled Lines.mxd drawn by:NCJ

KELLER associates

GRANTS PASS WHERE THE ROGUE RIVER RUNS

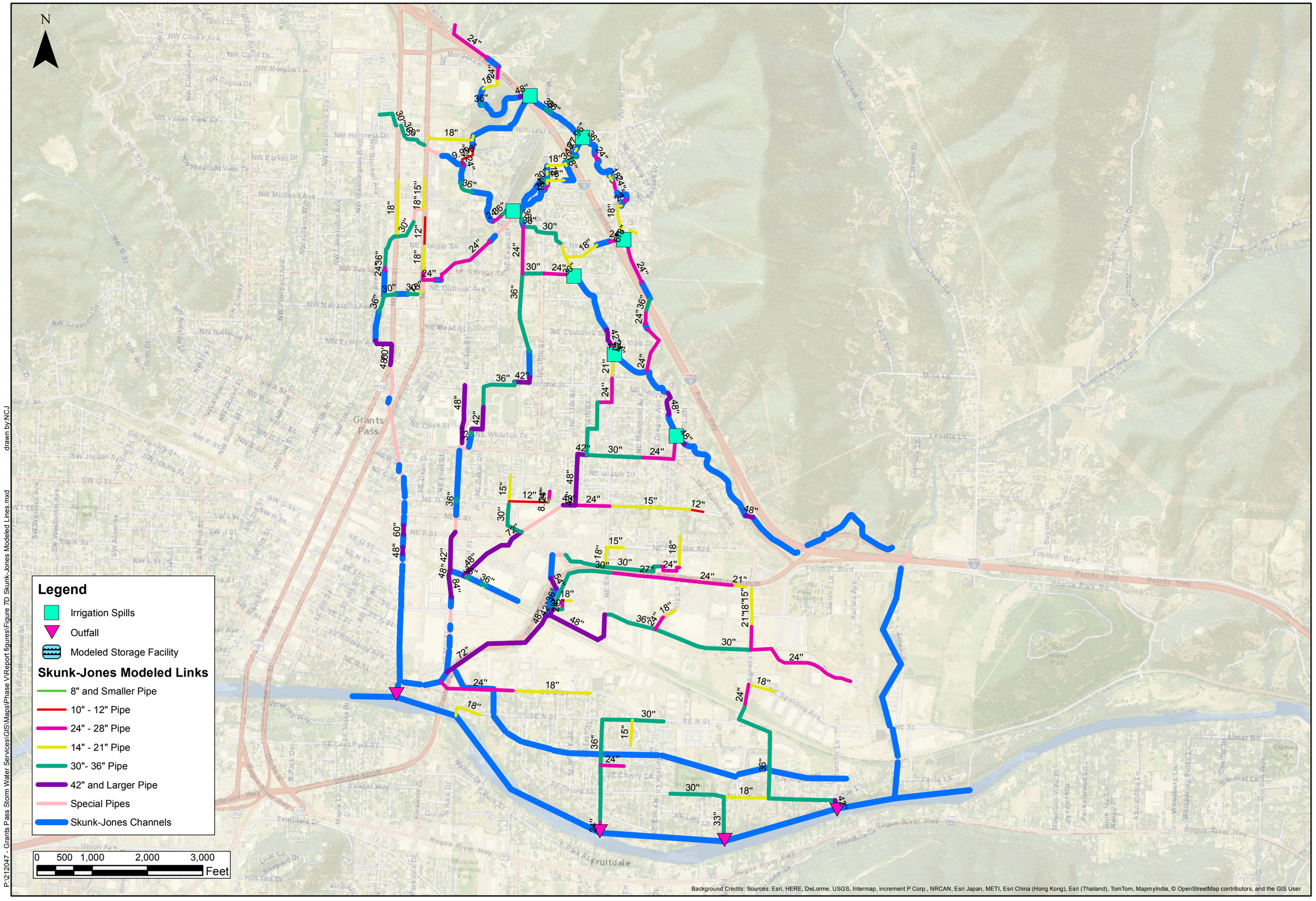
Prepared for:

CITY OF GRANTS PASS, OREGON

STORMWATER MASTER PLAN

Title: SAND MODELED LINES

Figure: 5C



drawn by:NCJ

P:\212047 - Grants Pass Storm Water Services\GIS\Maps\Phase V\Report figures\Figure 7D Skunk-Jones Modeled Lines.mxd

KELLER associates

WHERE THE ROGUE RIVER RUNS

Prepared for:

CITY OF GRANTS PASS, OREGON

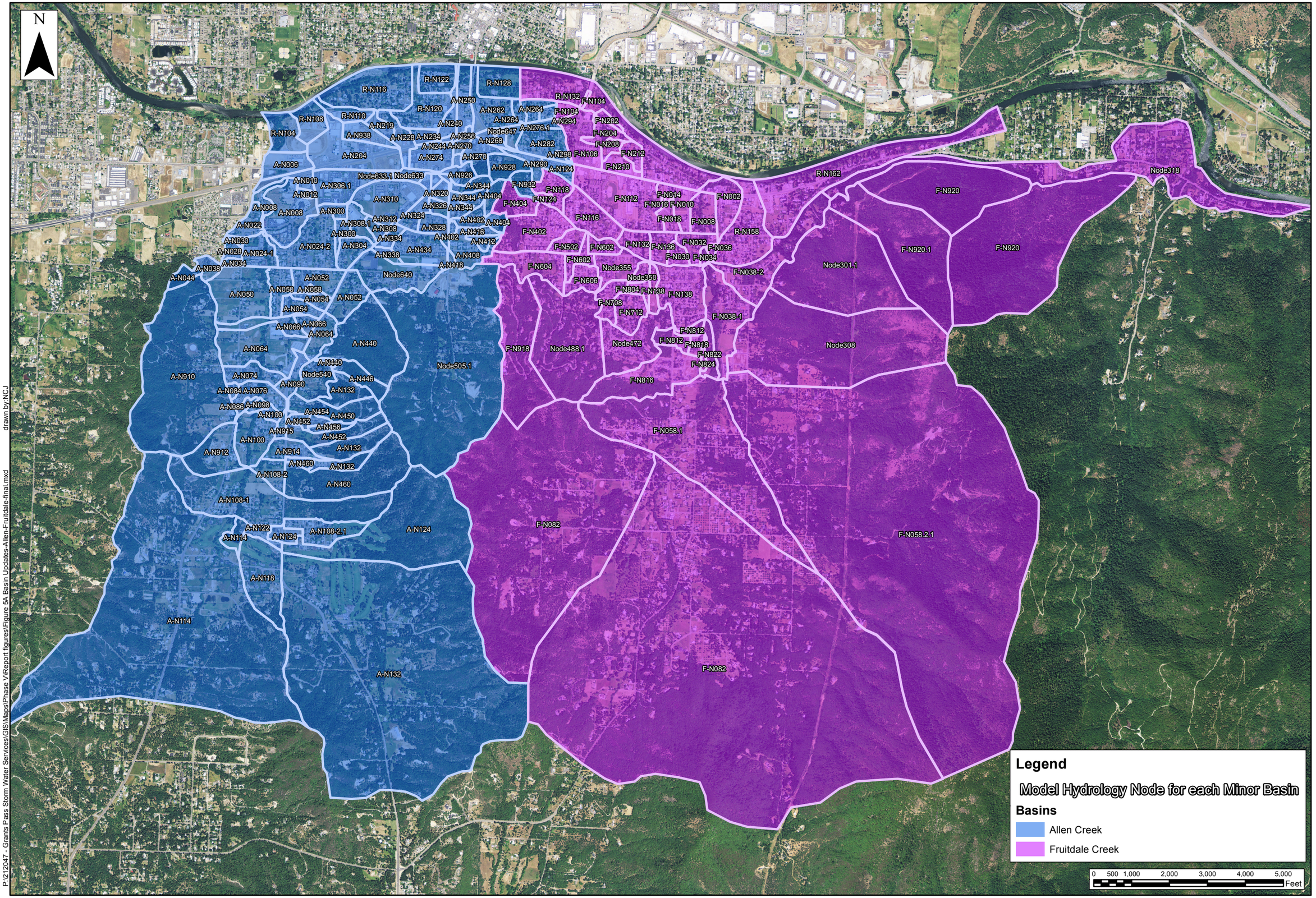
Title:

STORMWATER MASTER PLAN

SKUNK-JONES MODELED LINES

Figure:

5D



P:\212047 - Grants Pass Storm Water Services\GIS\Maps\Phase VI\Report figures\Figure 5A Basin Updates-Allen-Fruitdale-final.mxd drawn by:NCJ

KELLER associates

GRANTS PASS WHERE THE ROGUE RIVER RUNS

Prepared for:

CITY OF GRANTS PASS, OREGON

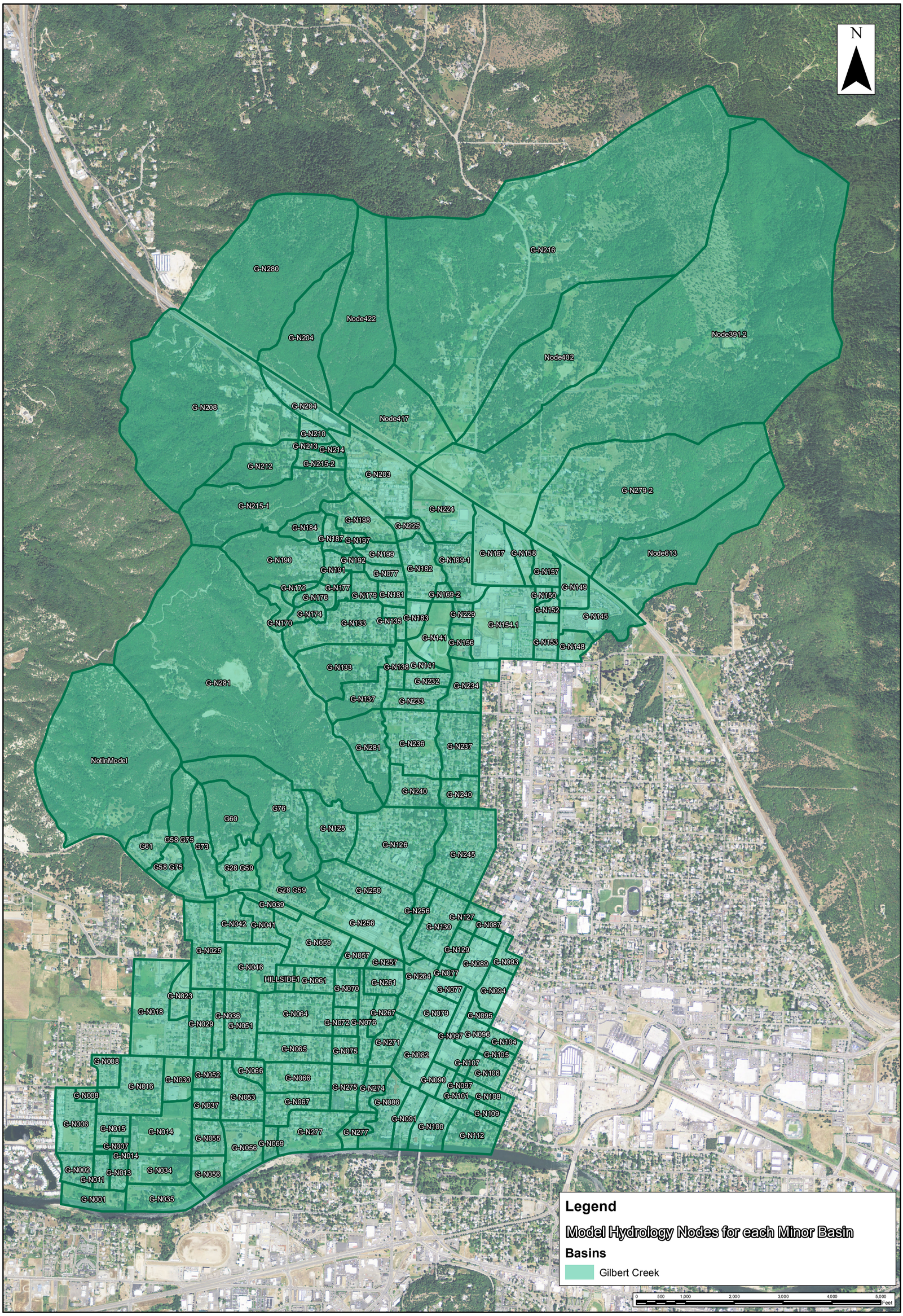
Title:

MINOR BASINS ALLEN-FRUITDALE

STORMWATER MASTER PLAN

Figure:

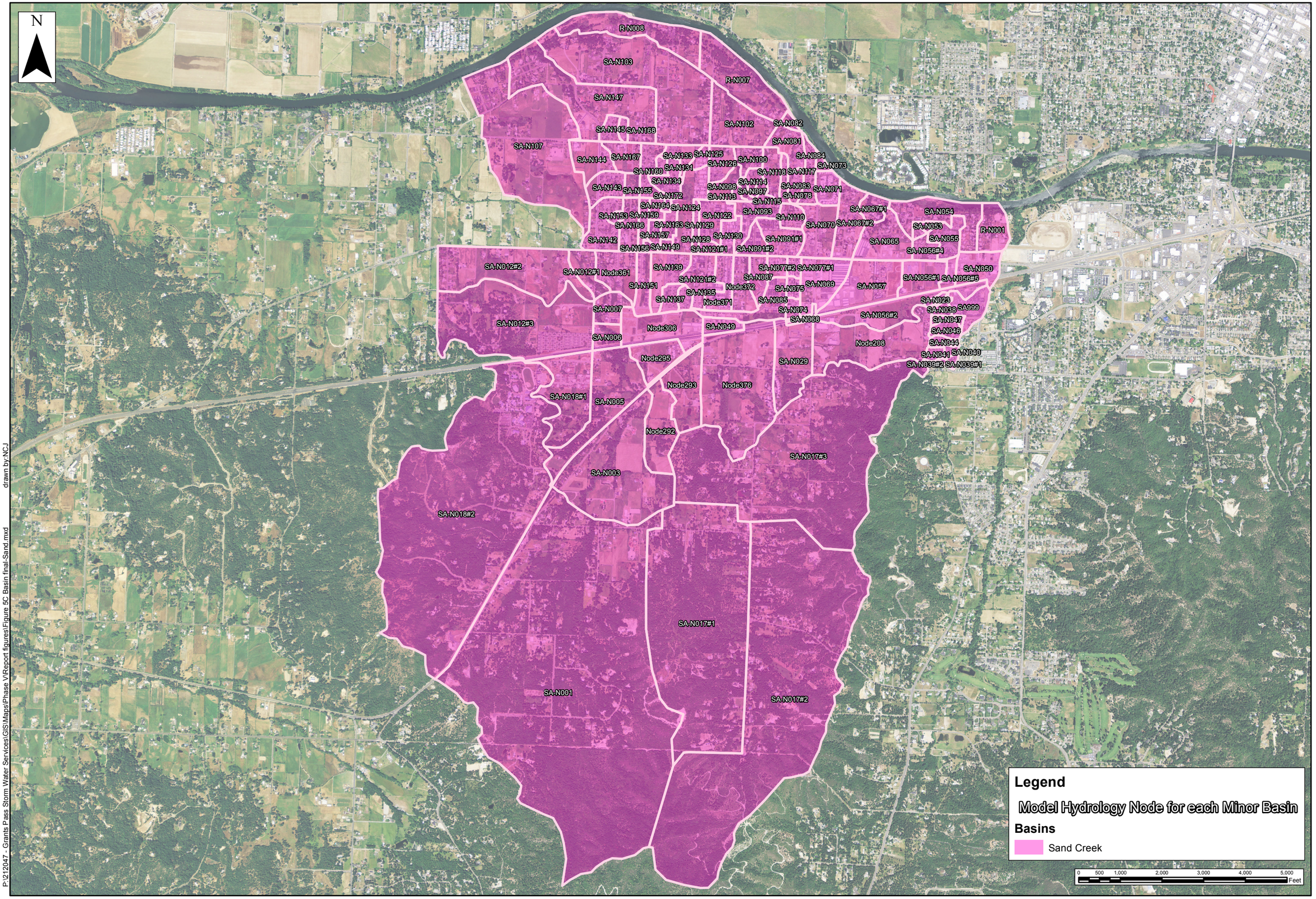
6A



drawn by:NCJ

P:\212047 - Grants Pass Storm Water Services\GIS\Maps\Phase VI\Report figures\Figure 5B Basin Updates-Gilbert-final.mxd

Figure:	Title:		Prepared for:		
6B	MINOR BASINS GILBERT	STORMWATER MASTER PLAN	CITY OF GRANTS PASS, OREGON	GRANTS PASS WHERE THE ROGUE RIVER RUNS OREGON	KELLER associates



drawn by:NCJ

P:\212047 - Grants Pass Storm Water Services\GIS\Maps\Phase VI\Report figures\Figure 5C Basin final-Sand.mxd

KELLER associates

GRANTS PASS WHERE THE ROGUE RIVER RUNS

Prepared for:

CITY OF GRANTS PASS, OREGON

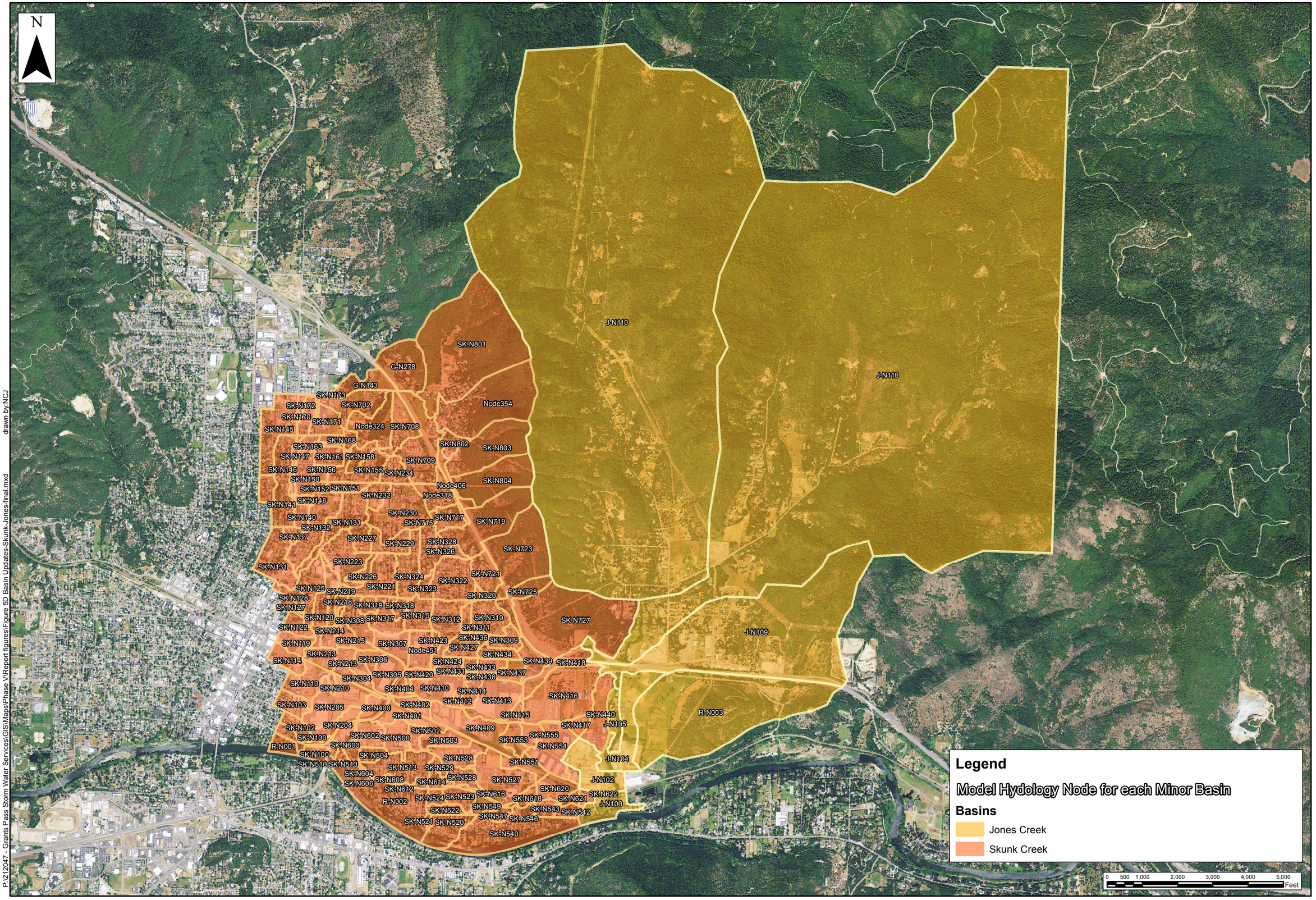
Title:

STORMWATER MASTER PLAN

MINOR BASINS SAND

Figure:

6C



P:\212047 - Grants Pass Storm Water Services\GIS\Maps\Phase VI\Report figures\Figure 5D Basin Updates-Skunk-Jones-final.mxd

drawn by:NCJ

KELLER associates

GRANTS PASS OREGON WHERE THE ROGUE RIVER RUNS

Prepared for:

CITY OF GRANTS PASS, OREGON

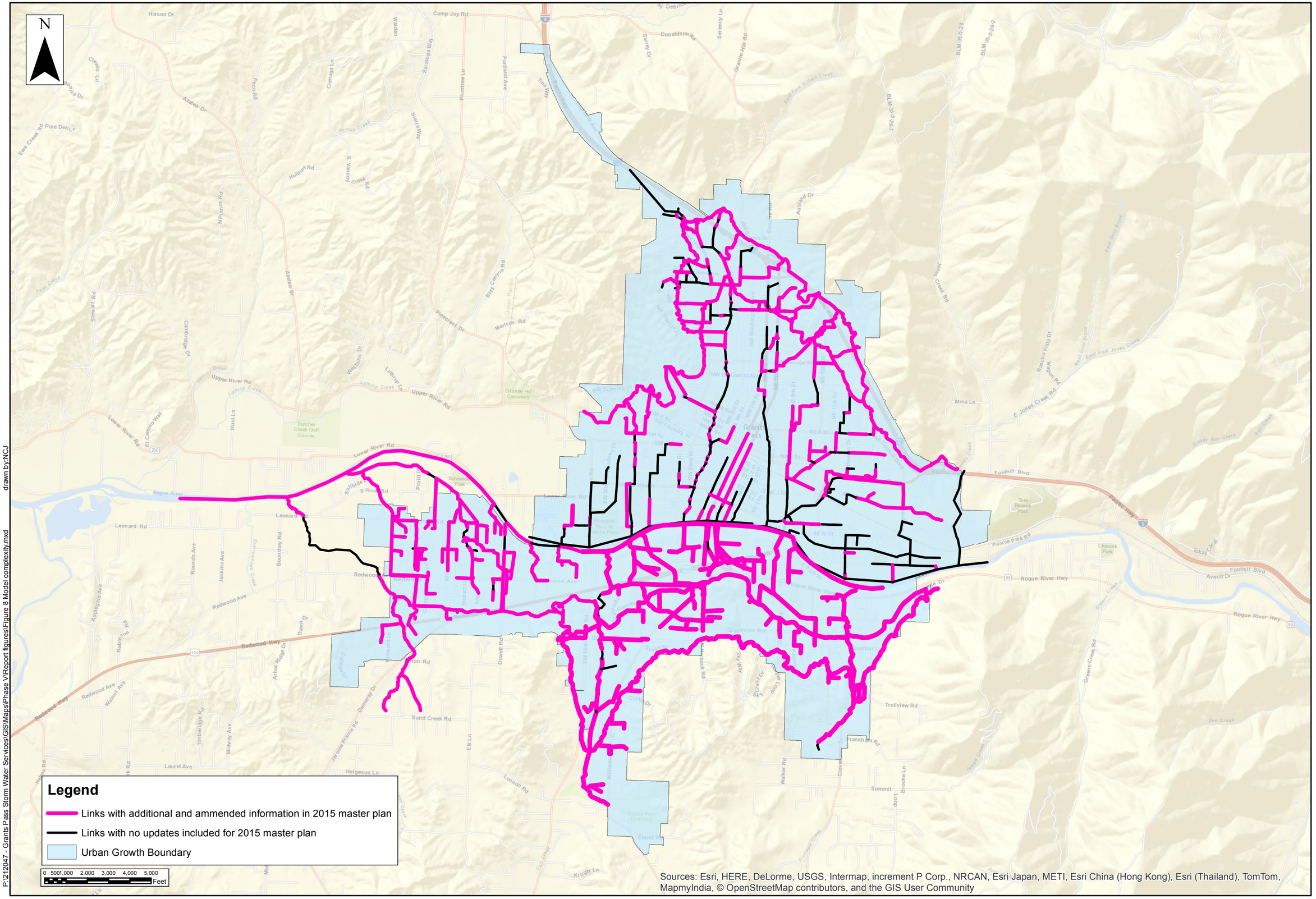
STORMWATER MASTER PLAN

Title:

MINOR BASINS SKUNK-JONES

Figure:

6D



P:\212047 - Grants Pass Storm Water Services\GIS\Maps\Phase V\Report figures\Figure 8 Model complexity.mxd drawn by:NCJ

KELLER associates

GRANTS PASS WHERE THE ROGUE RIVER RUNS

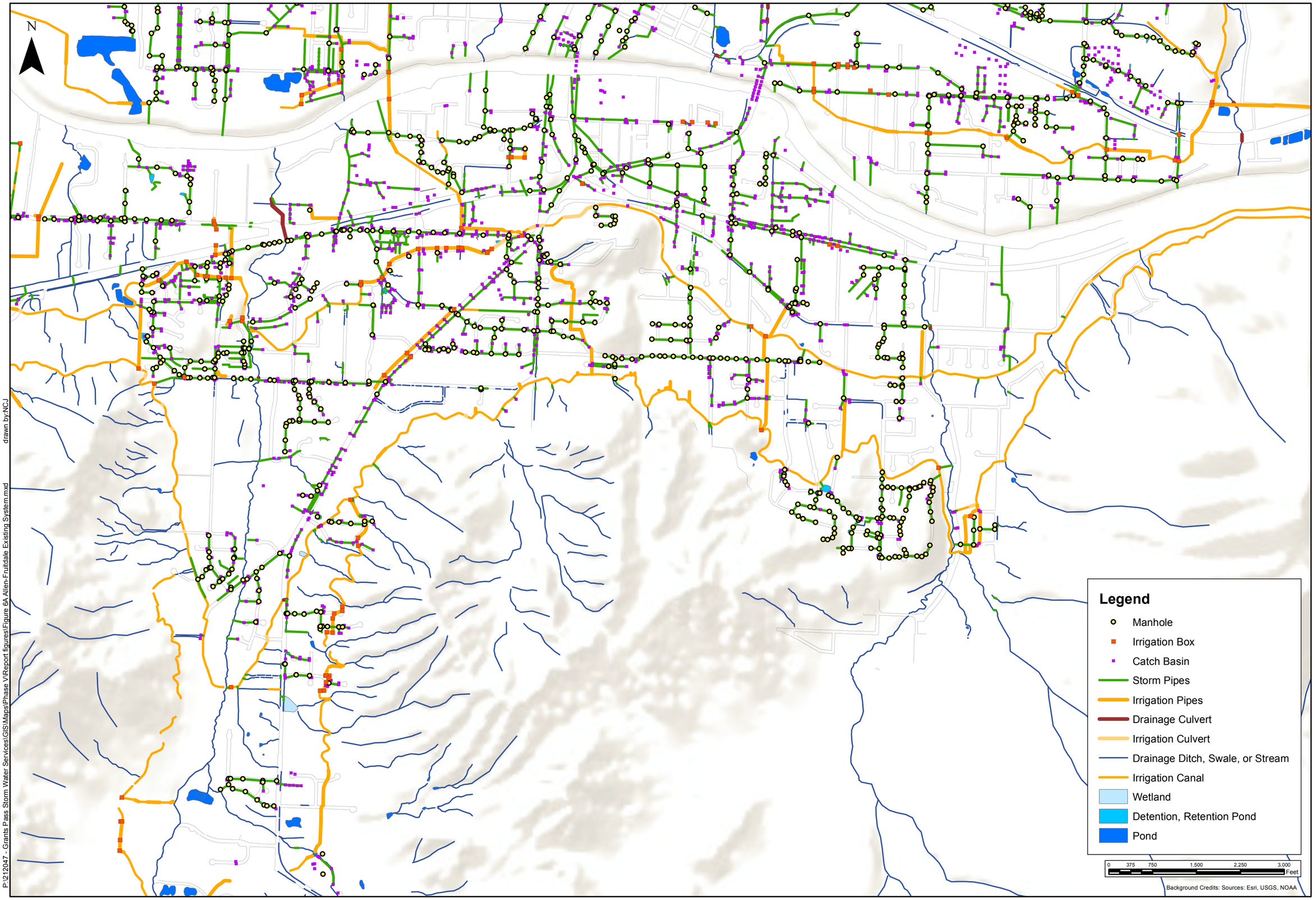
Prepared for:

CITY OF GRANTS PASS, OREGON

STORMWATER MASTER PLAN

Title: COMPARISON OF 2007 AND 2015 MODEL

Figure: 7



P:\212047 - Grants Pass Storm Water Services\GIS\Maps\Phase VI\Report figures\Figure 6A Allen-Fruitdale Existing System.mxd drawn by:NCJ

KELLER associates

GRANTS PASS WHERE THE ROGUE RIVER RUNS

Prepared for:

CITY OF GRANTS PASS, OREGON

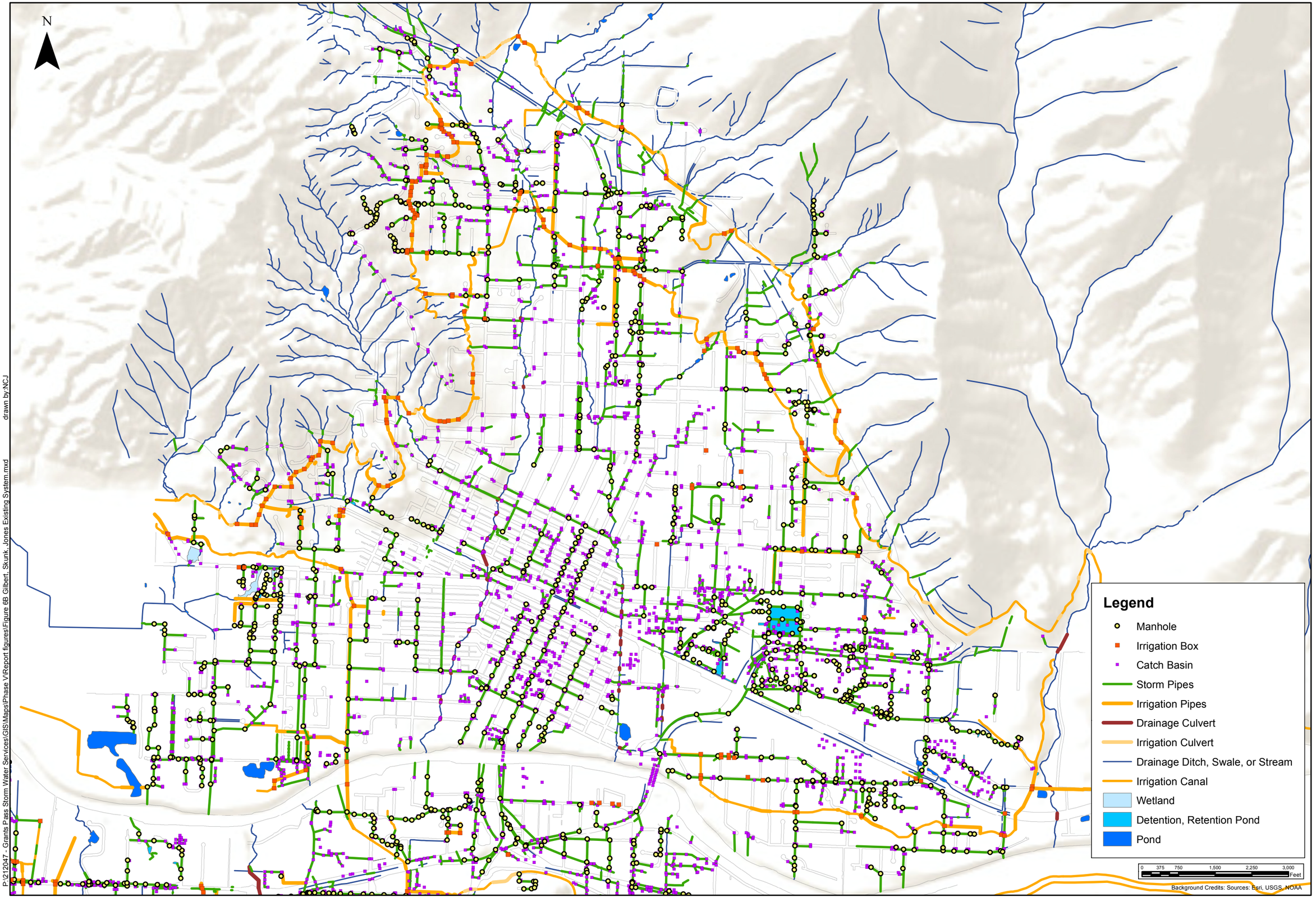
STORMWATER MASTER PLAN

Title:

ALLEN-FRUITDALE EXISTING SYSTEM

Figure:

8A



drawn by:NCJ

P:\212047 - Grants Pass Storm Water Services\GIS\Maps\Phase VI\Report figures\Figure 6B Gilbert, Skunk, Jones Existing System.mxd

KELLER associates

GRANTS PASS OREGON WHERE THE ROGUE RIVER RUNS

Prepared for:

CITY OF GRANTS PASS, OREGON

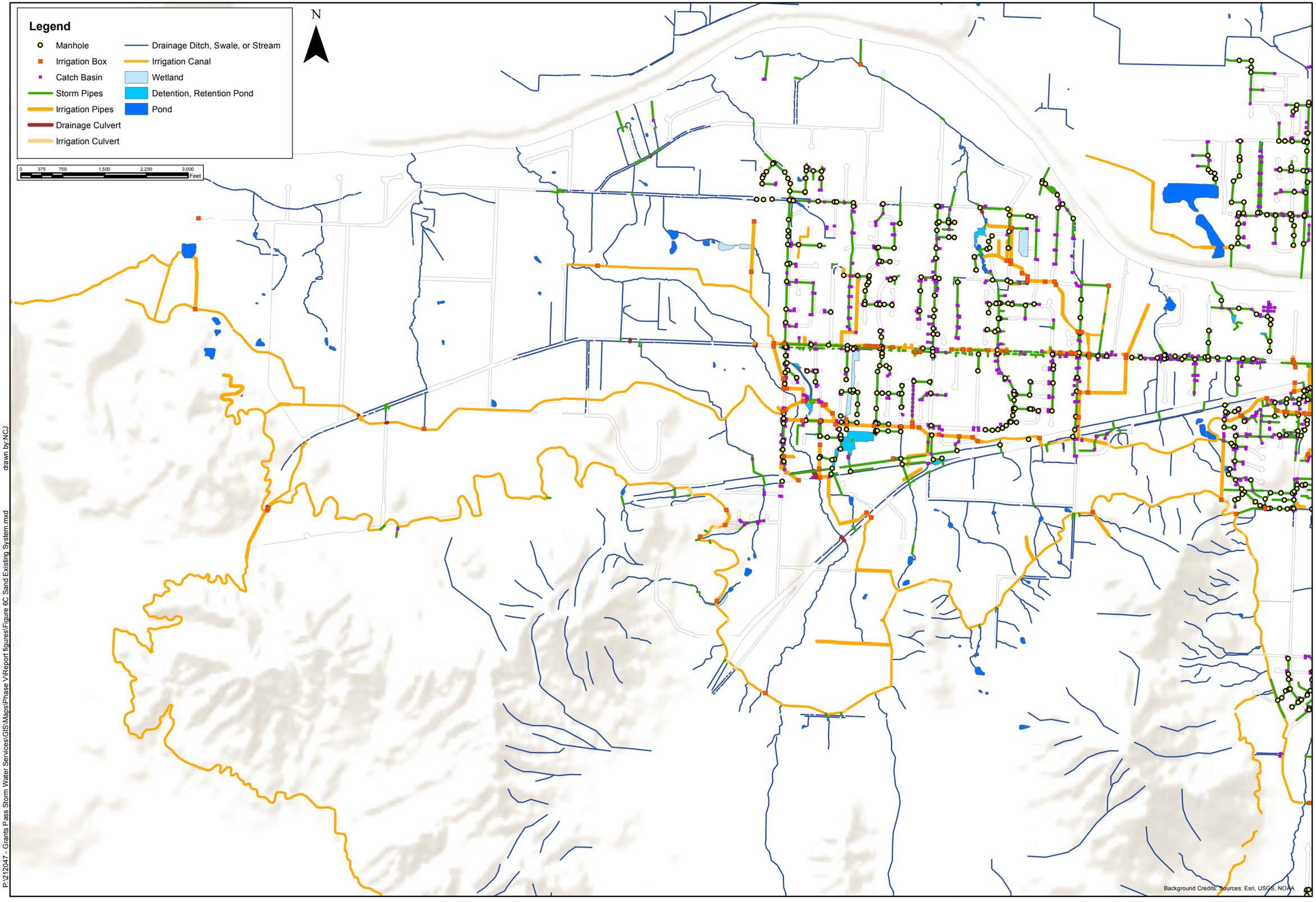
STORMWATER MASTER PLAN

Title:

GILBERT, SKUNK, JONES EXISTING SYSTEM

Figure:

8B



P:\212047 - Grants Pass Storm Water Services\GIS\Maps\Phase VI\Report figures\Figure 8C Sand Existing System.mxd

drawn by:NCJ

KELLER associates

GRANTS PASS OREGON WHERE THE ROGUE RIVER RUNS

Prepared for:

CITY OF GRANTS PASS, OREGON

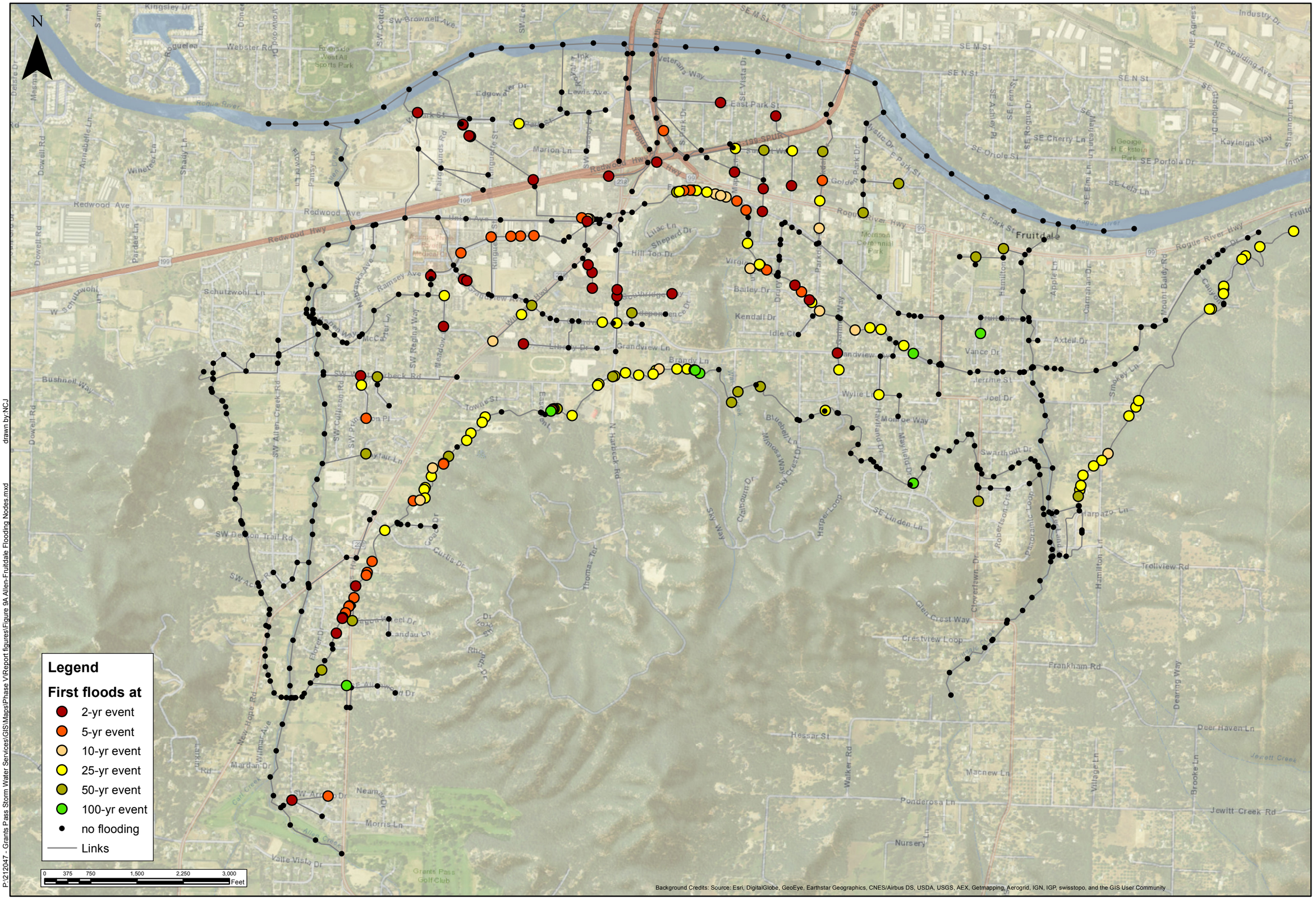
STORMWATER MASTER PLAN

Title:

SAND EXISTING SYTEM

Figure:

8C



P:\212047 - Grants Pass Storm Water Services\GIS\Maps\Phase VI\Report figures\Figure 9A Allen-Fruitdale Flooding Nodes.mxd drawn by:NCJ

KELLER associates

GRANTS PASS WHERE THE ROGUE RIVER RUNS

Prepared for:

CITY OF GRANTS PASS, OREGON

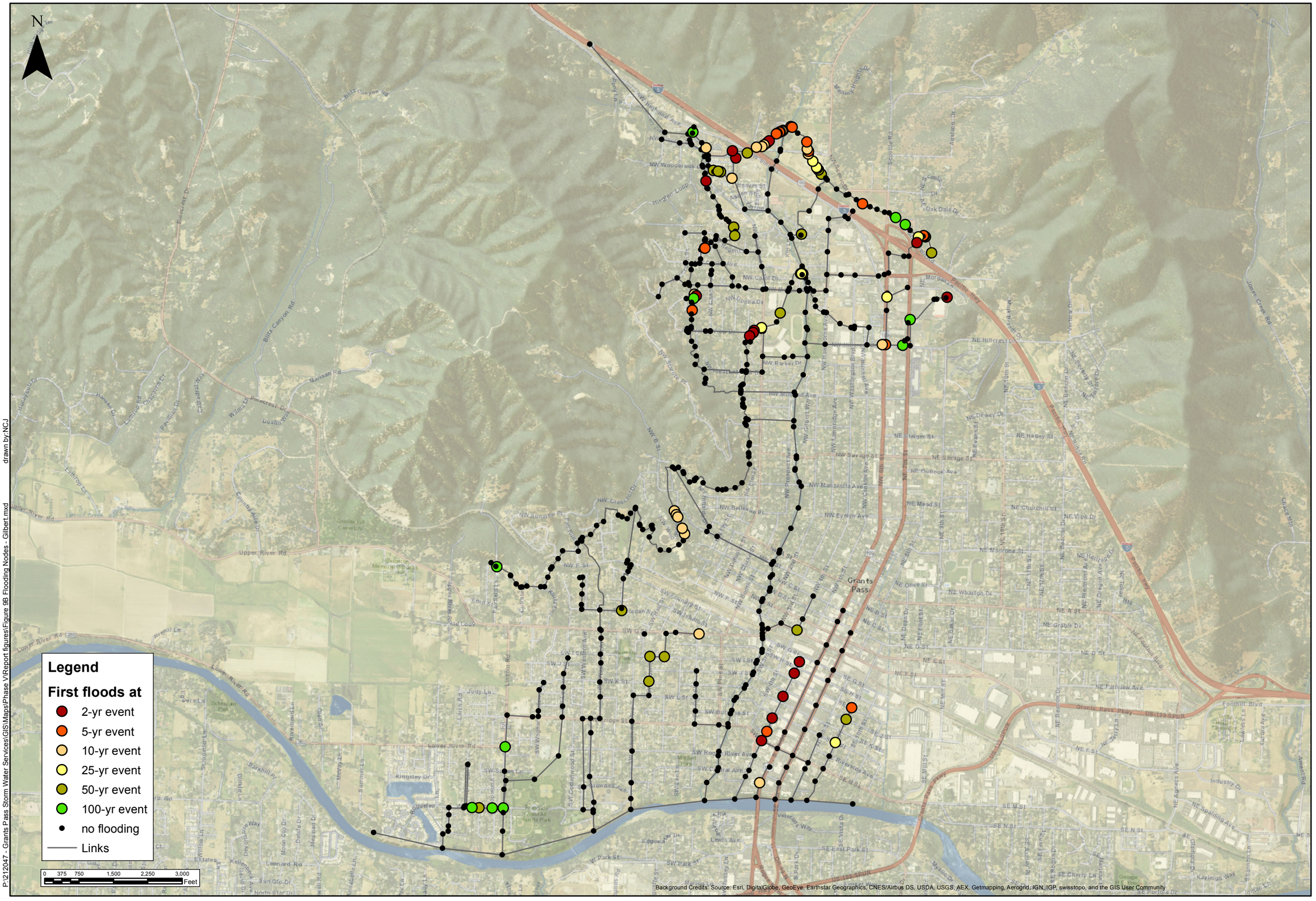
STORMWATER MASTER PLAN

Title:

FLOODING NODES ALLEN-FRUITDALE

Figure:

9A



P:\212047 - Grants Pass Storm Water Services\GIS\Maps\Phase VI\Report figures\Figure 9B Flooding Nodes - Gilbert.mxd drawn by:NCJ

KELLER associates

GRANTS PASS WHERE THE ROGUE RIVER RUNS

Prepared for:

CITY OF GRANTS PASS, OREGON

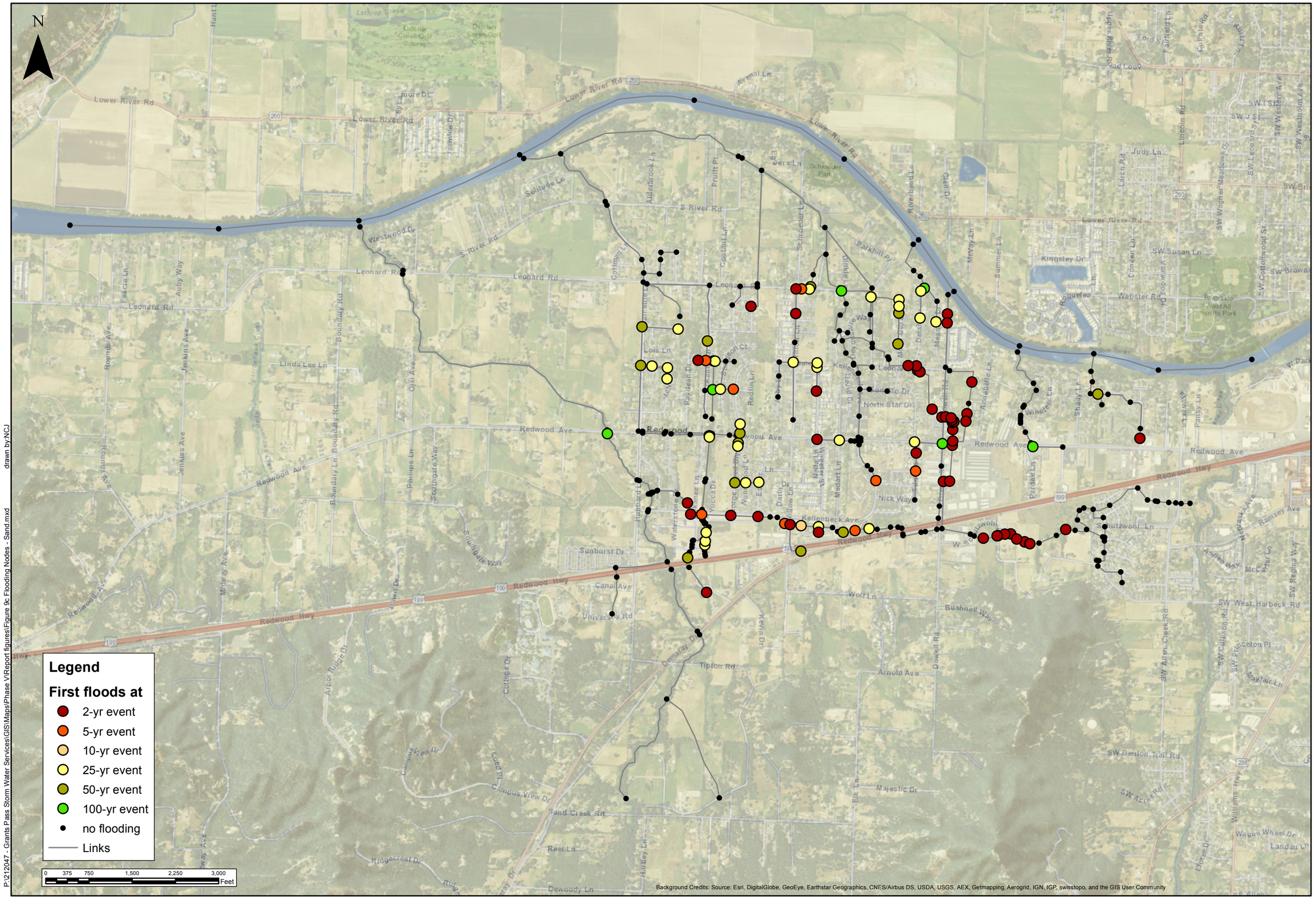
Title:

STORMWATER MASTER PLAN

FLOODING NODES GILBERT

Figure:

9B



P:\212047 - Grants Pass Storm Water Services\GIS\Maps\Phase VI\Report figures\Figure 9c Flooding Nodes - Sand.mxd drawn by:NCJ

KELLER associates

GRANTS PASS WHERE THE ROGUE RIVER RUNS

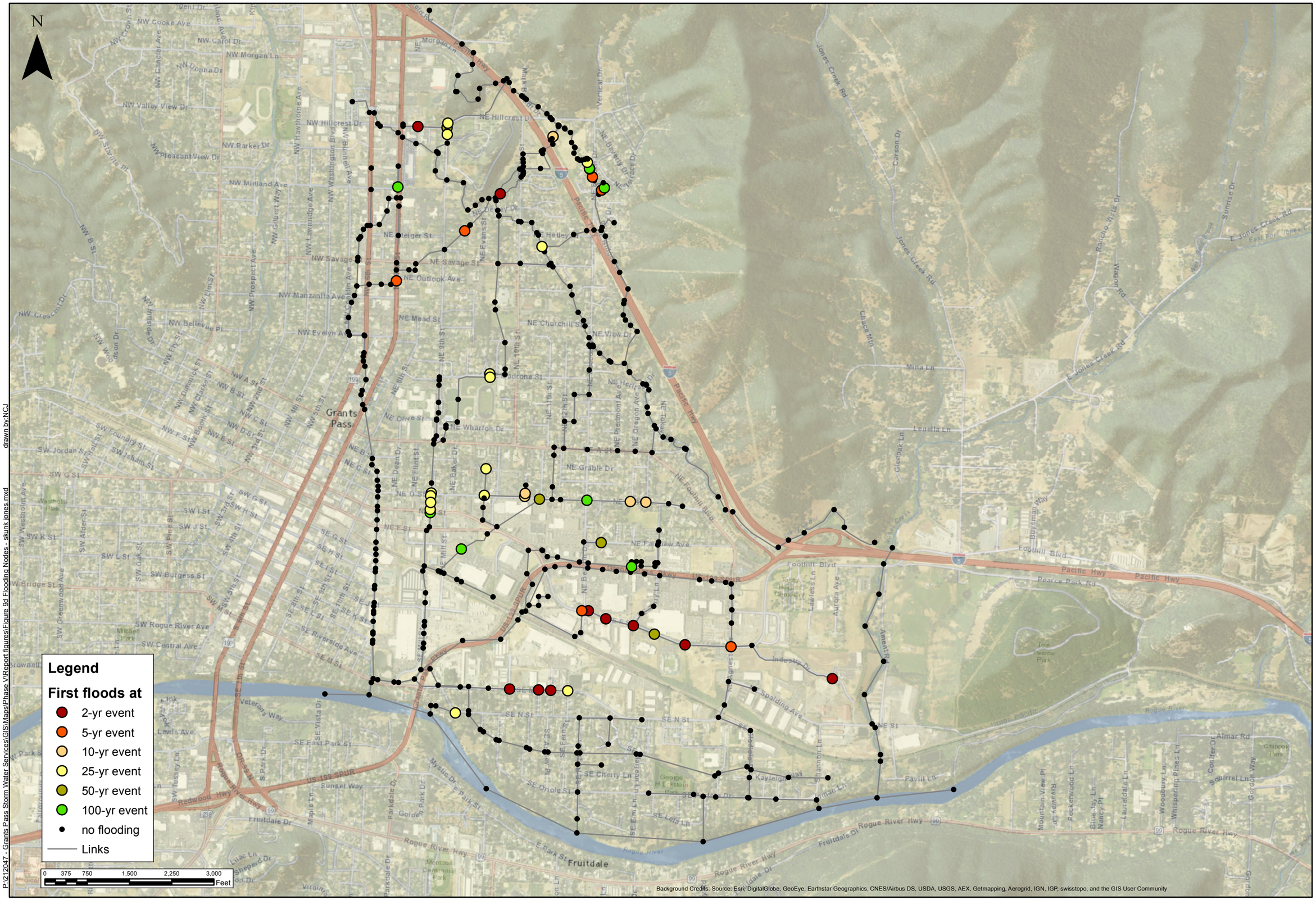
Prepared for:

CITY OF GRANTS PASS, OREGON

STORMWATER MASTER PLAN

Title: FLOODING NODES SAND

Figure: 9C



P:\212047 - Grants Pass Storm Water Services\GIS\Maps\Phase V\Report figures\Figure 9d Flooding Nodes - skunk jones.mxd

drawn by:NCJ

KELLER associates

GRANTS PASS WHERE THE ROGUE RIVER RUNS

Prepared for:

CITY OF GRANTS PASS, OREGON

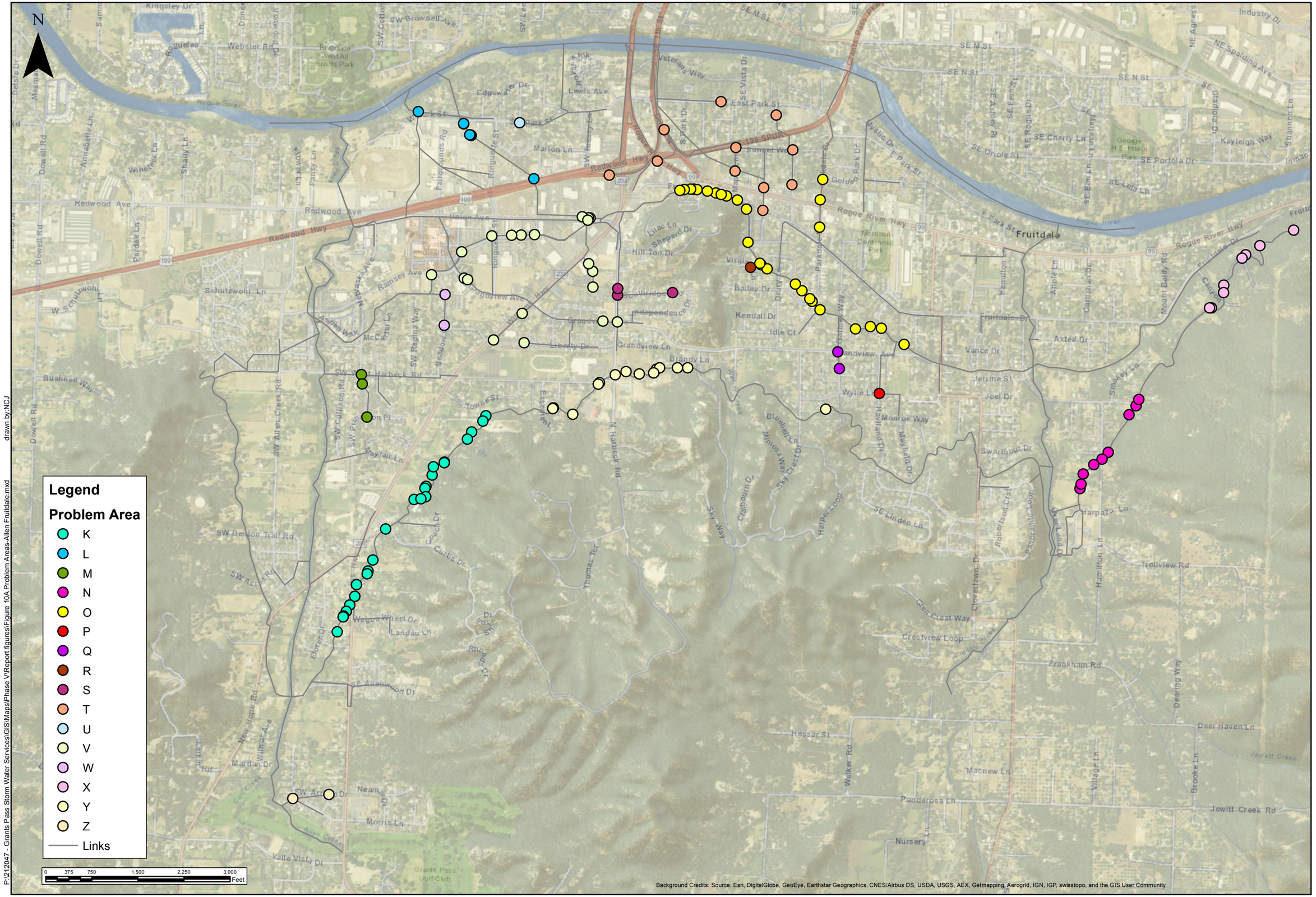
STORMWATER MASTER PLAN

Title:

FLOODING NODES SKUNK-JONES

Figure:

9D



P:\212047 - Grants Pass Storm Water Services\GIS\Maps\Phase VI\Report figures\Figure 10A Problem Areas-Allen Fruitdale.mxd drawn by:NCJ

KELLER associates

GRANTS PASS WHERE THE ROGUE RIVER RUNS

Prepared for:

CITY OF GRANTS PASS, OREGON

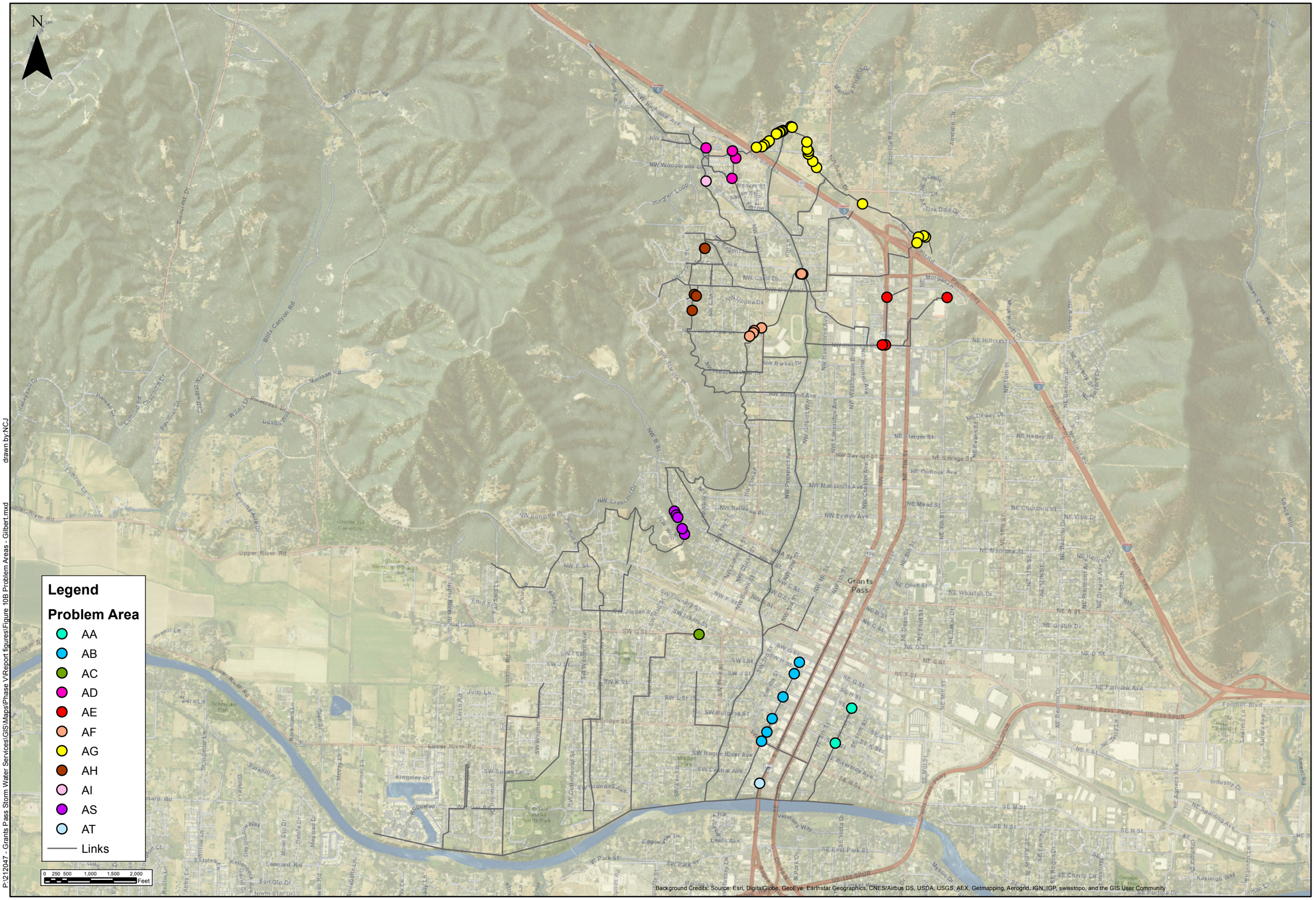
STORMWATER MASTER PLAN

Title:

PROBLEM AREAS ALLEN-FRUITDALE

Figure:

10A



drawn by:NCJ

P:\212047 - Grants Pass Storm Water Services\GIS\Maps\Phase VI\Report figures\Figure 10B Problem Areas - Gilbert.mxd

KELLER associates

GRANTS PASS WHERE THE ROGUE RIVER RUNS

Prepared for:

CITY OF GRANTS PASS, OREGON

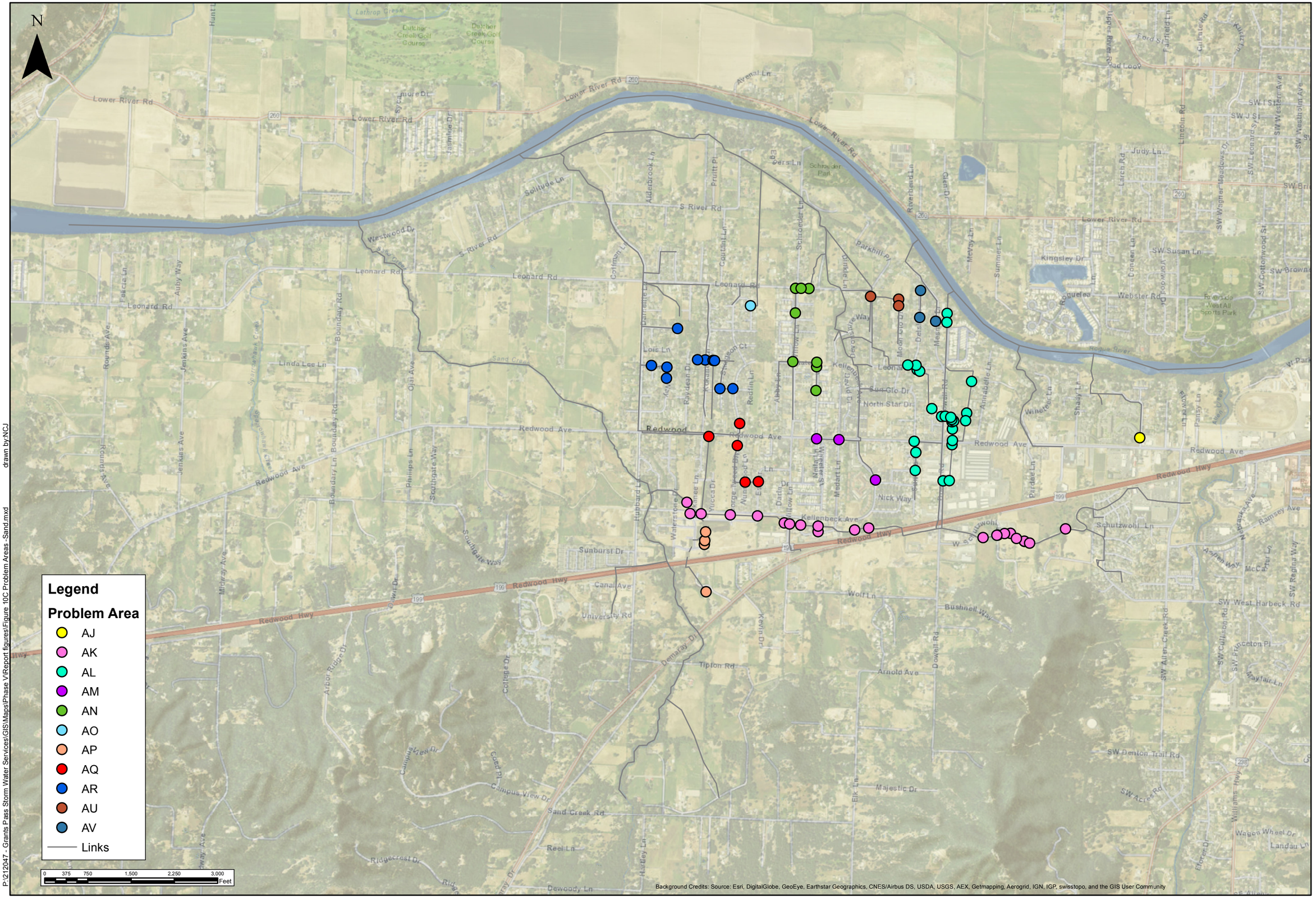
STORMWATER MASTER PLAN

Title:

PROBLEM AREAS GILBERT

Figure:

10B



P:\212047 - Grants Pass Storm Water Services\GIS\Maps\Phase VI\Report figures\Figure 10C Problem Areas -Sand.mxd drawn by:NCJ

KELLER associates

GRANTS PASS WHERE THE ROGUE RIVER RUNS

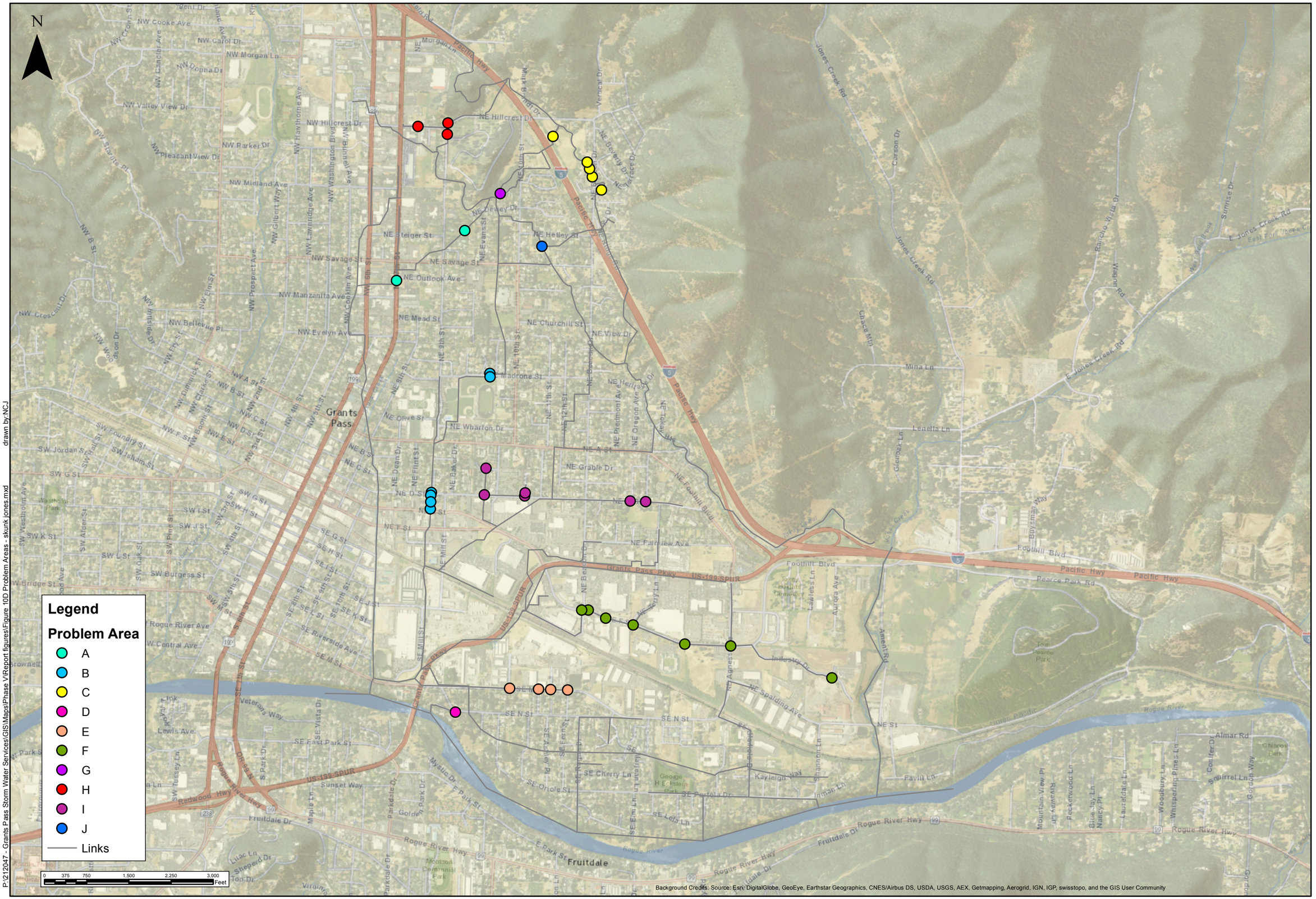
Prepared for:

CITY OF GRANTS PASS, OREGON

STORMWATER MASTER PLAN

Title: PROBLEM AREAS SAND

Figure: 10C



P:\212047 - Grants Pass Storm Water Services\GIS\Maps\Phase VI\Report figures\Figure 10D Problem Areas - skunk jones.mxd

drawn by:NCJ

KELLER associates

GRANTS PASS WHERE THE ROGUE RIVER RUNS

Prepared for:

CITY OF GRANTS PASS, OREGON

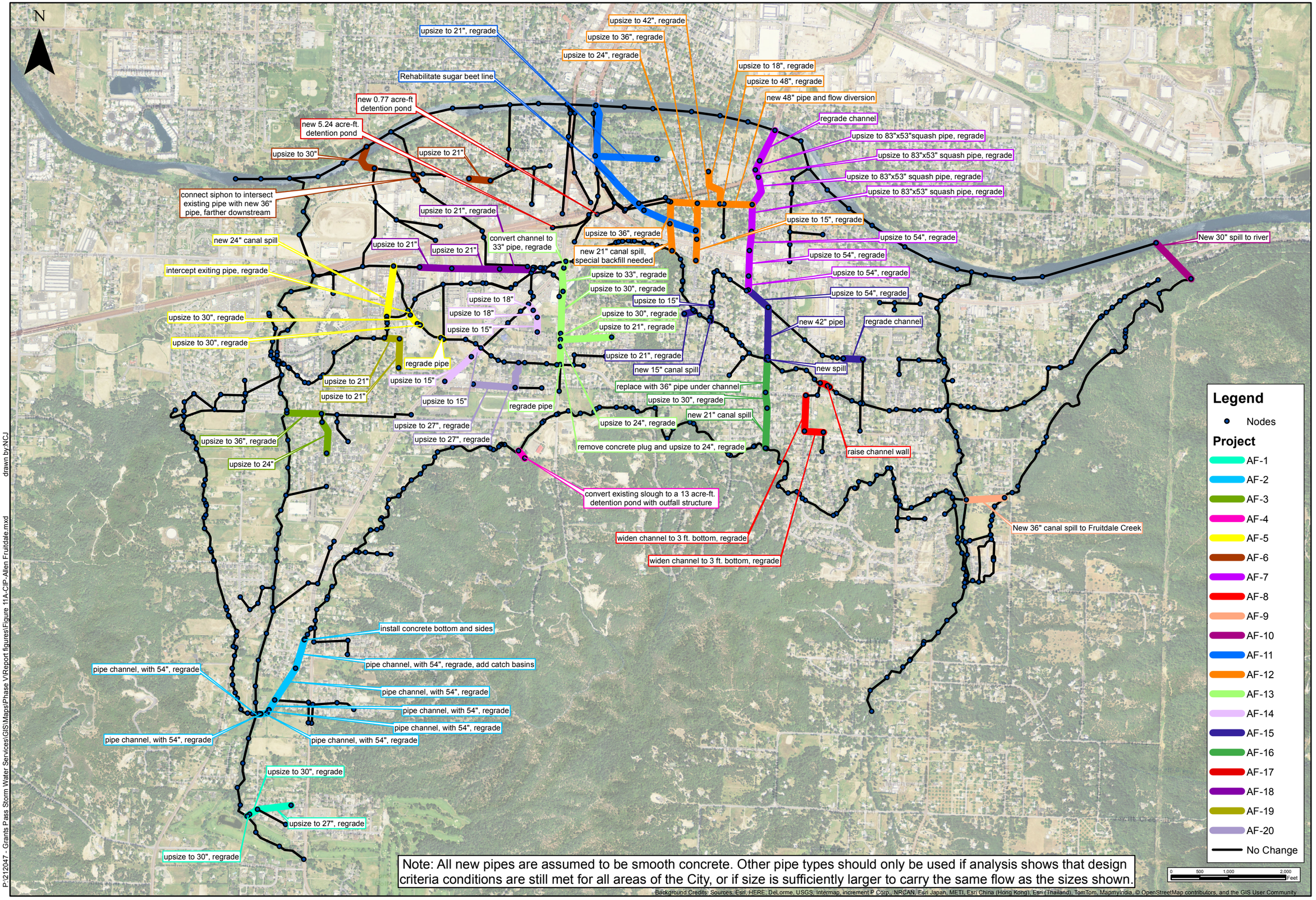
STORMWATER MASTER PLAN

Title:

PROBLEM AREAS SKUNK-JONES

Figure:

10D



Note: All new pipes are assumed to be smooth concrete. Other pipe types should only be used if analysis shows that design criteria conditions are still met for all areas of the City, or if size is sufficiently larger to carry the same flow as the sizes shown.

KELLER associates

GRANTS PASS WHERE THE ROGUE RIVER RUNS

Prepared for:

CITY OF GRANTS PASS, OREGON

STORMWATER MASTER PLAN

Title:

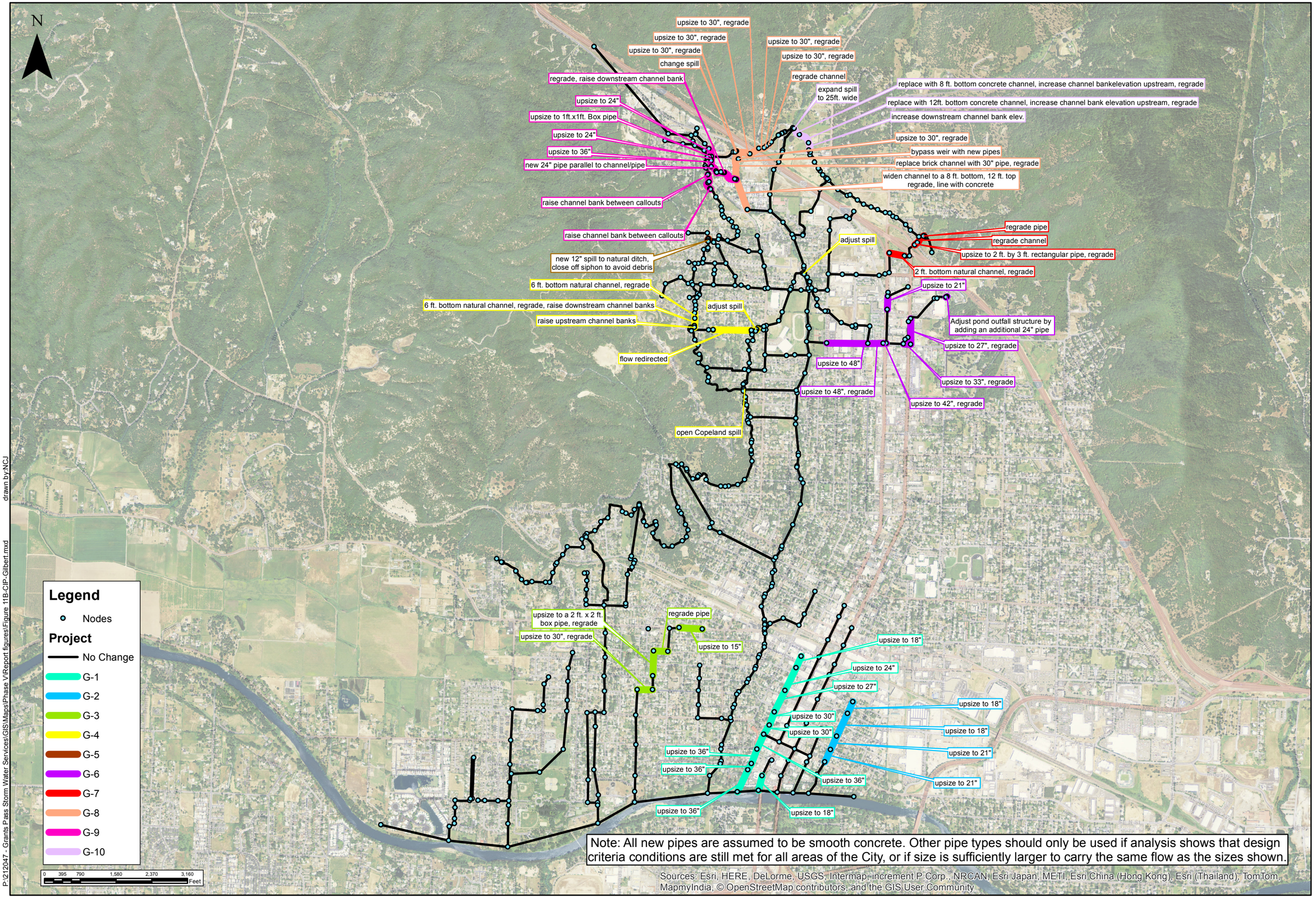
CIP ALLEN-FRUITDALE

Figure:

11A

drawn by:NCJ

P:\212047 - Grants Pass Storm Water Services\GIS\Maps\Phase VI\Report figures\Figure 11A-CIP-Allen Fruitdale.mxd



P:\212047 - Grants Pass Storm Water Services\GIS\Maps\Phase VI\Report figures\Figure 11B-CIP-Gilbert.mxd drawn by:NCJ

KELLER associates

GRANTS PASS WHERE THE ROGUE RIVER RUNS

Prepared for:

CITY OF GRANTS PASS, OREGON

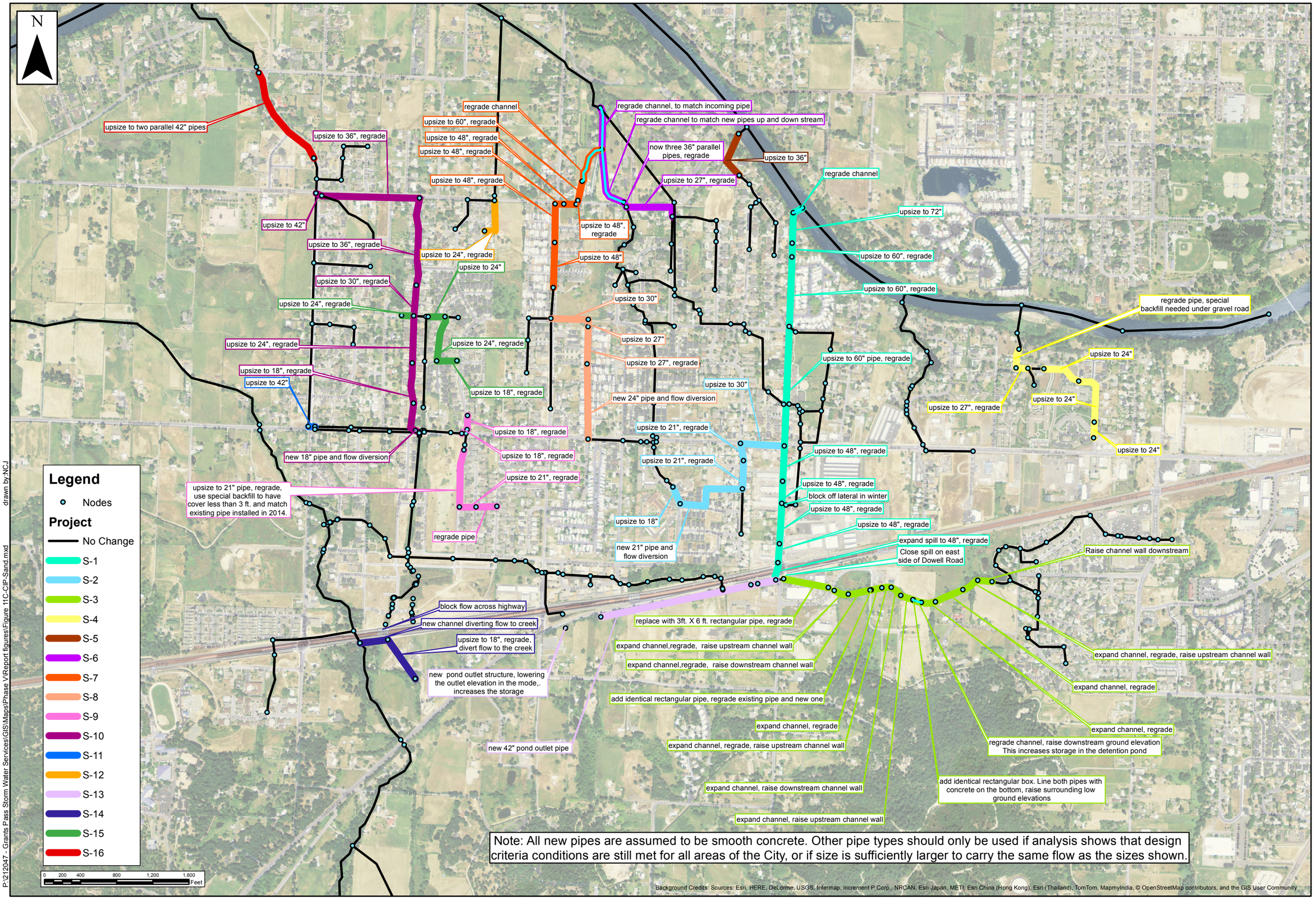
STORMWATER MASTER PLAN

Title:

CIP GILBERT

Figure:

11B



Note: All new pipes are assumed to be smooth concrete. Other pipe types should only be used if analysis shows that design criteria conditions are still met for all areas of the City, or if size is sufficiently larger to carry the same flow as the sizes shown.

P:\212047 - Grants Pass Storm Water Services\GIS\Maps\Phase VI\Report figures\Figure 11C-CIP-Sand.mxd drawn by:NCJ

KELLER associates

GRANTS PASS WHERE THE ROGUE RIVER RUNS

Prepared for:

CITY OF GRANTS PASS, OREGON

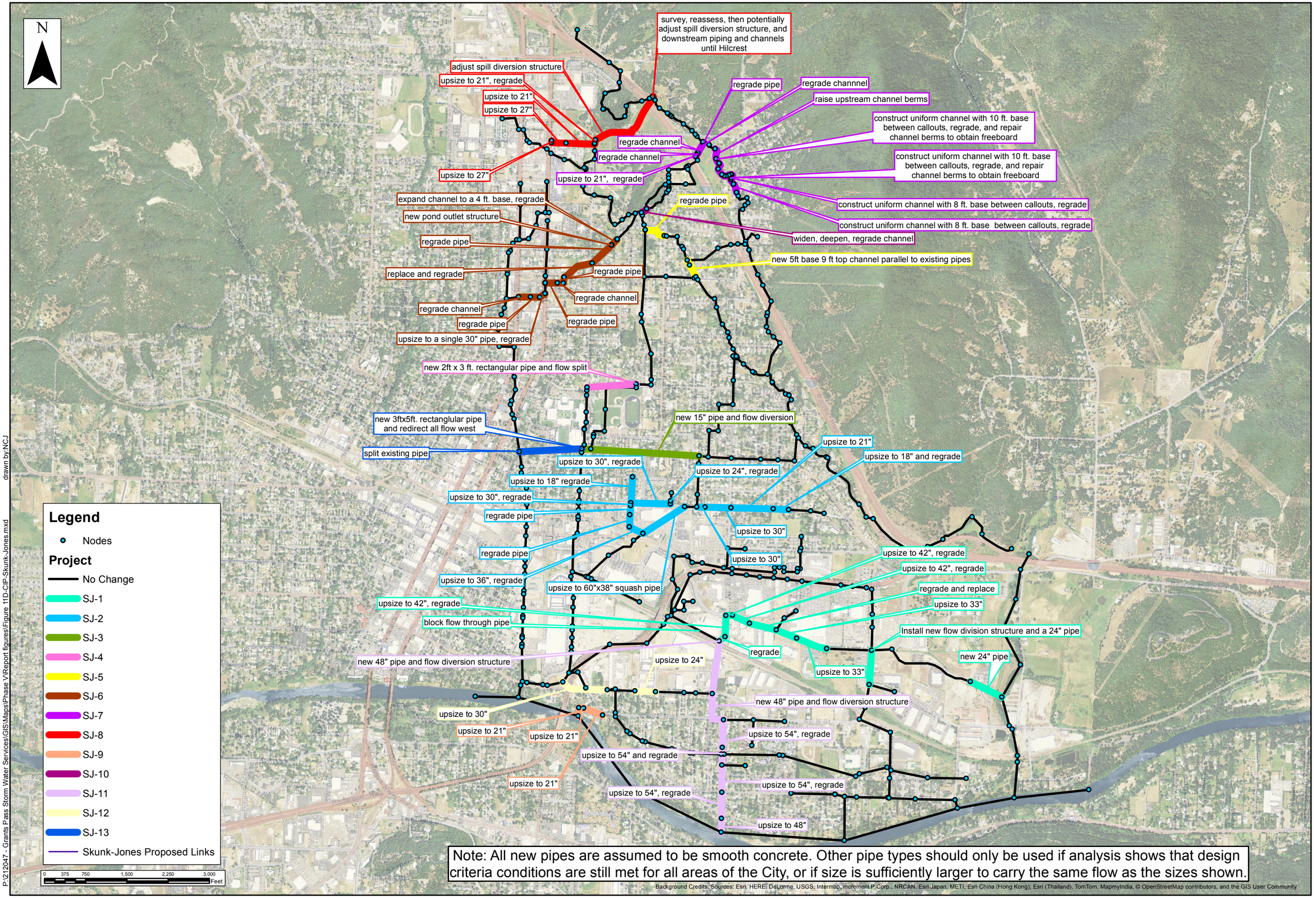
STORMWATER MASTER PLAN

Title:

CIP SAND

Figure:

11C



Note: All new pipes are assumed to be smooth concrete. Other pipe types should only be used if analysis shows that design criteria conditions are still met for all areas of the City, or if size is sufficiently larger to carry the same flow as the sizes shown.

P:\212047 - Grants Pass Storm Water Services\GIS\Maps\Phase V\Report figures\Figure 11D-CIP-Skunk-Jones.mxd drawn by:NCJ

KELLER associates

GRANTS PASS WHERE THE ROGUE RIVER RUNS

Prepared for:

CITY OF GRANTS PASS, OREGON

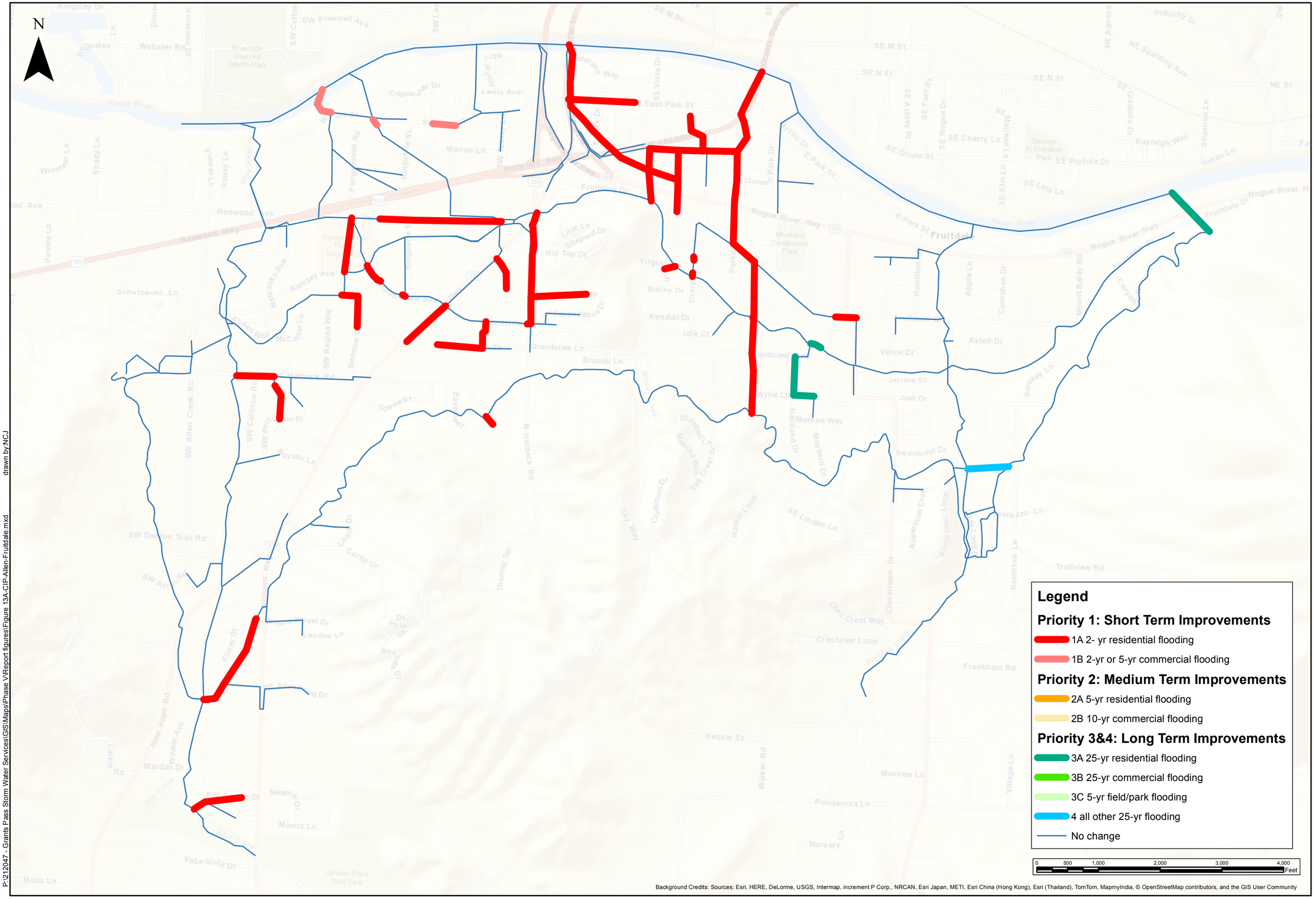
STORMWATER MASTER PLAN

Title:

CIP SKUNK-JONES

Figure:

11D



P:\212047 - Grants Pass Storm Water Services\GIS\Maps\Phase V\Report figures\Figure 13A-CIP-Allen-Fruitdale.mxd drawn by:NCJ

KELLER associates

GRANTS PASS WHERE THE ROGUE RIVER RUNS

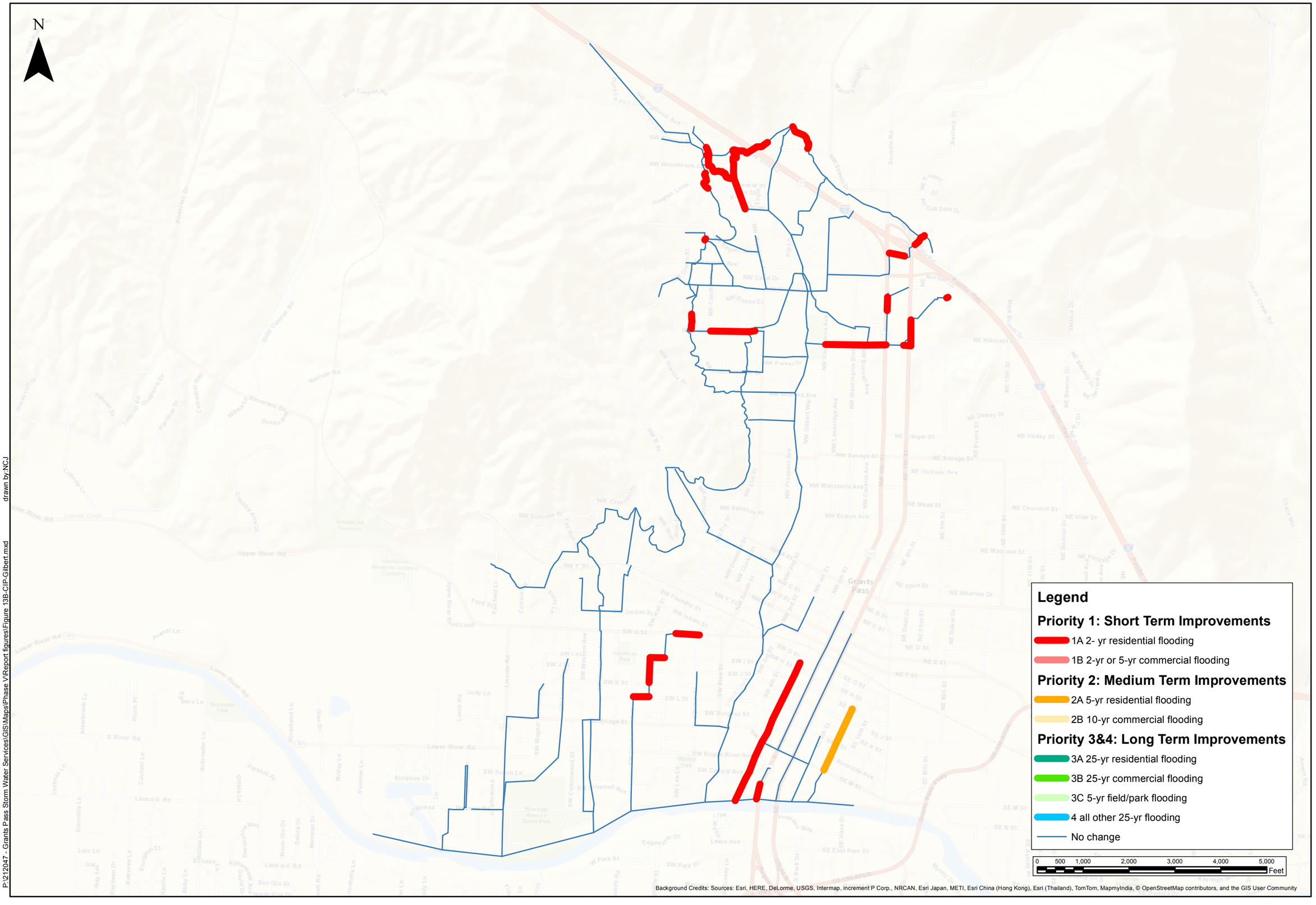
Prepared for:

CITY OF GRANTS PASS, OREGON

STORMWATER MASTER PLAN

Title: CIP PRIORITIZATION ALLEN-FRUITDALE

Figure: 12A



P:\212047 - Grants Pass Storm Water Services\GIS\Maps\Phase VI\Report figures\Figure 13B-CIP-Gilbert.mxd drawn by:NCJ

KELLER associates

GRANTS PASS OREGON WHERE THE ROGUE RIVER RUNS

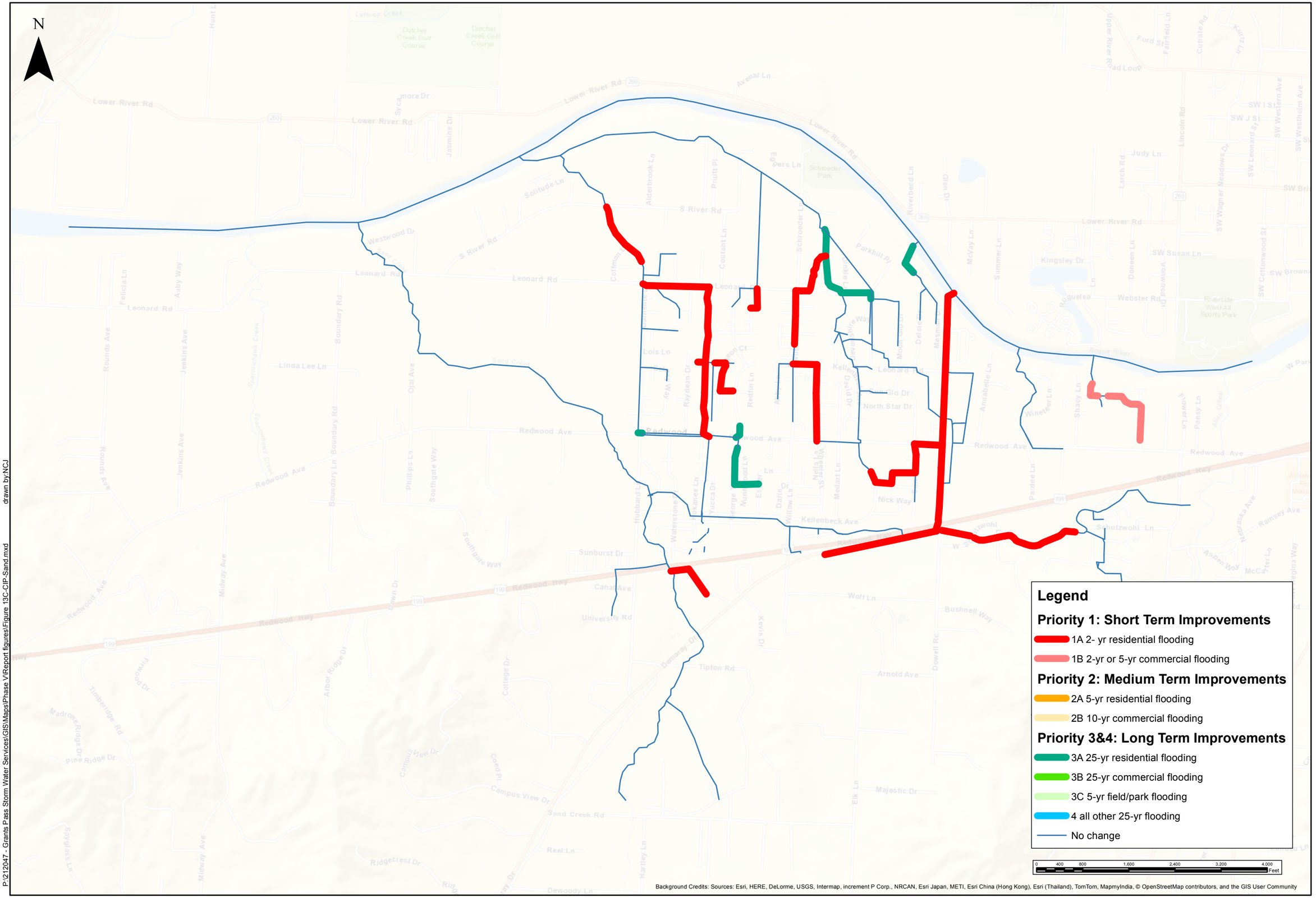
Prepared for:

CITY OF GRANTS PASS, OREGON

STORMWATER MASTER PLAN

Title: CIP PRIORITIZATION GILBERT

Figure: 12B



P:\212047 - Grants Pass Storm Water Services\GIS\Maps\Phase VI\Report figures\Figure 13C-CIP-Sand.mxd drawn by:NCJ

KELLER associates

GRANTS PASS OREGON WHERE THE ROGUE RIVER RUNS

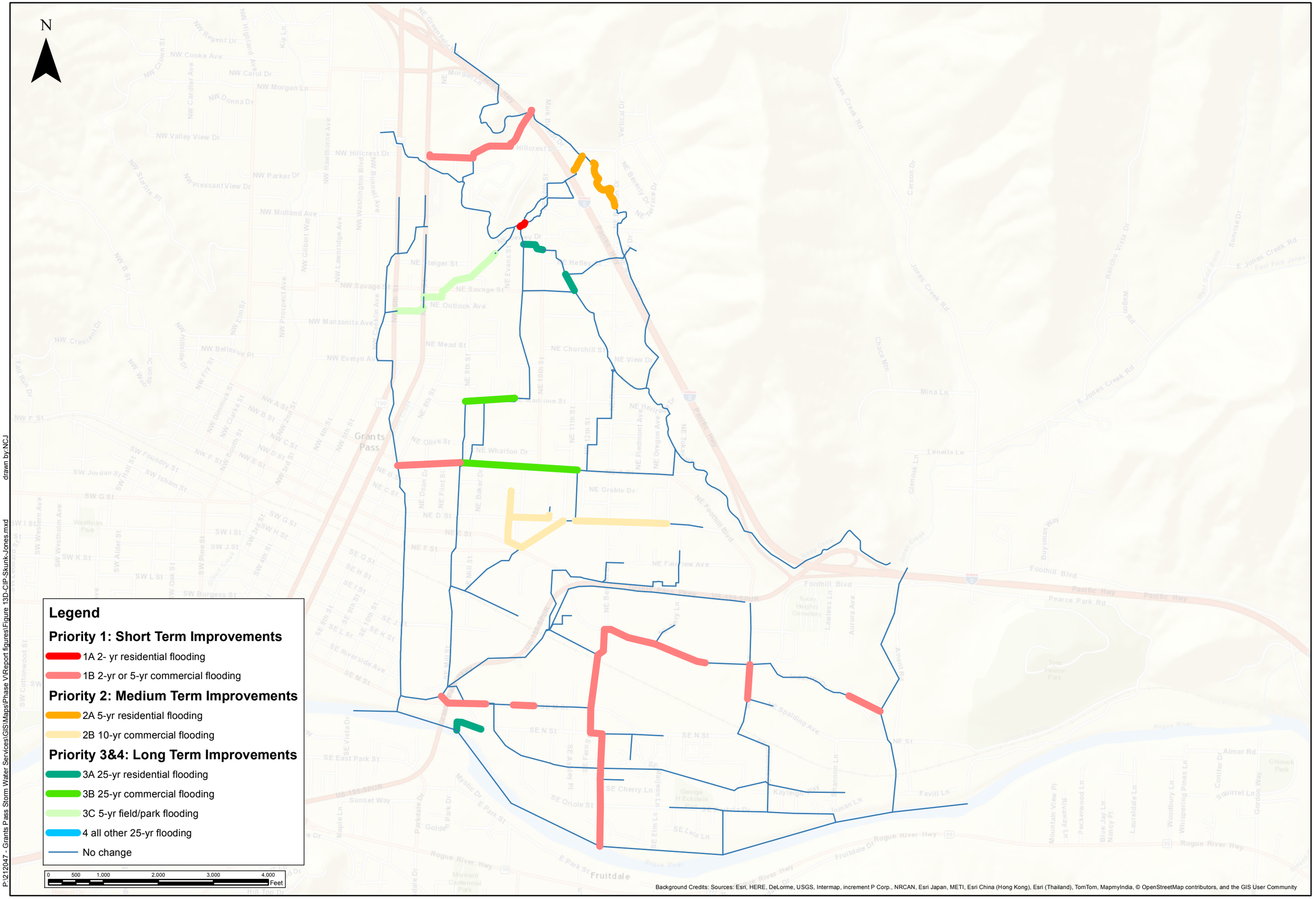
Prepared for:

CITY OF GRANTS PASS, OREGON

STORMWATER MASTER PLAN

Title: CIP PRIORITIZATION SAND

Figure: 12C



P:\212047 - Grants Pass Storm Water Services\GIS\Maps\Phase VI\Report figures\Figure 13D-CIP-Skunk-Jones.mxd drawn by:NCJ

KELLER associates

GRANTS PASS WHERE THE ROGUE RIVER RUNS

Prepared for:

CITY OF GRANTS PASS, OREGON

STORMWATER MASTER PLAN

Title: CIP PRIORITIZATION SKUNK-JONES

Figure: 12D