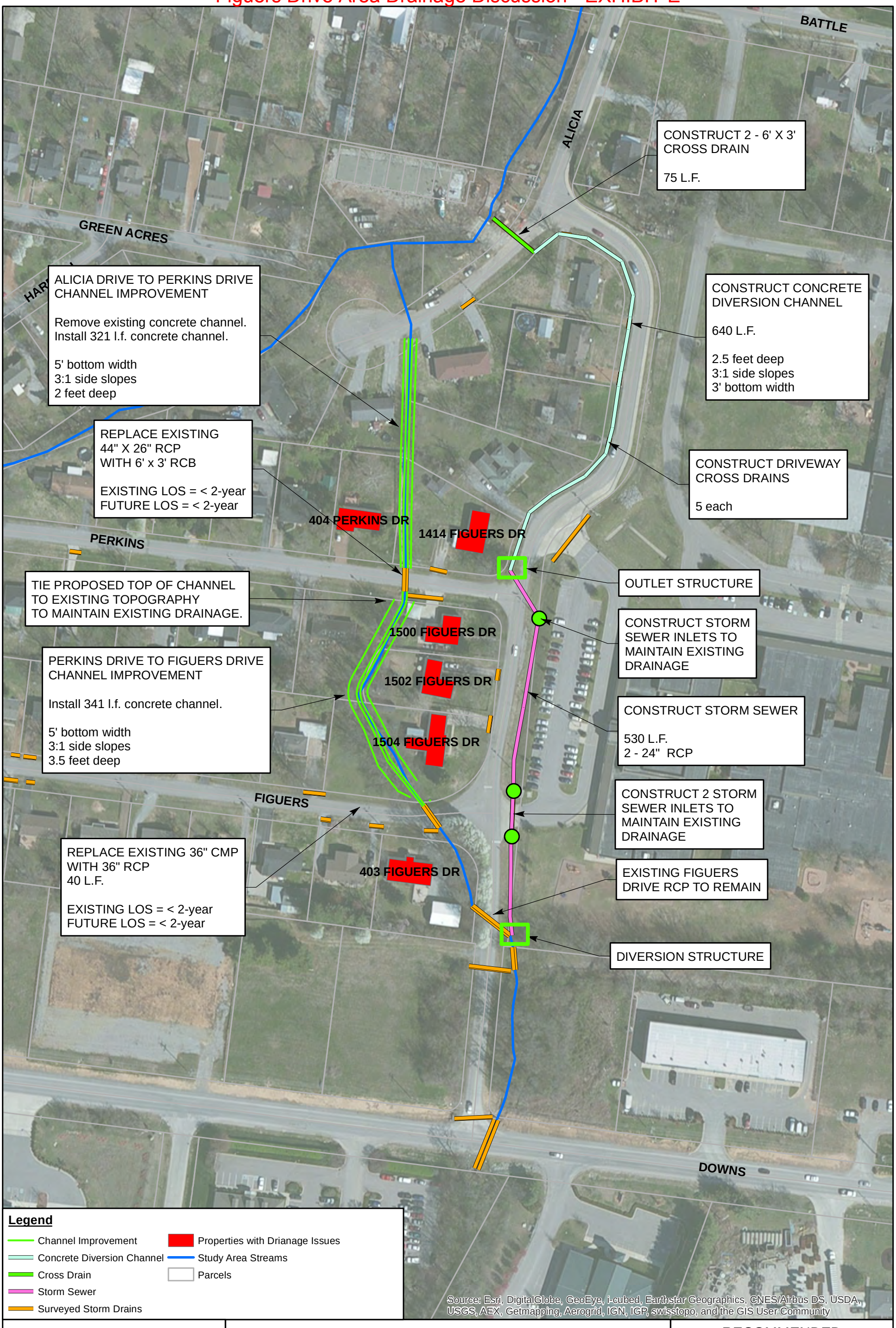
Figuers Drive Area Drainage Discussion - EXHIBIT E



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CITY OF FRANKLIN
FIGUERS DRIVE DRAINAGE STUDY

HISTORIC FRANKLIN TENNESSEE

RECOMMENDED DRAINAGE IMPROVEMENTS

OPTION 2

EXHIBIT 1

October, 2014

FIGUERS DRIVE - EAST
OPTION 2 - CROSS DRAIN UPGRADES, CONCRETE CHANNEL IMPROVEMENT AND DIVERSION

ADDRESS	FFE (1)	LAG	EXISTING LAG SUMBERGENCE EVENT (2)	FUTURE LAG SUBMERGENCE EVENT (2)
403 Figuers Drive	682.93	680.34	100-year	100-year
1504 Figuers Drive	680.16	676.49	5-year	100-year
1502 Figuers Drive	678.03	675.09	< 2-year	100-year
1500 Figuers Drive	678.16	675.09	< 2-year	100-year
1414 Figuers Drive	673.2	672.88	< 2-year	100-year
404 Perkins Drive	678.7	674.46	5-year	100-year

Drainage Improvements:

1) Channel improvement from Alicia Drive to Figures Drive.
2) Culvert Upgrades at Perkins Drive and Figuers Drive.
3) Diversion Storm Sewer from Figuers Dr. to Perkins Dr.
4) Concrete channel from Perkins Dr. to Alicia Dr.
5) 6x3 RCB at Alicia Dr.

Design Constraints

1) Can not lower right bank elevation with out increasing LAG submergence.
2) Match existing channel invert elevations
3) Channel improvement using a 5 foot bottom width and 3:1 side slopes to daylight.
4) Minor channel realignment required.
5) 5 driveway cross drains to be designed
6) Storm sewer inlets to be designed
7) Localized grading of yards adjacent to conc. diversion channel.

Notes:

(1) FFE is the surveyed Finished Floor Elevation
(2) LAG submergence is based on the Low Adjacent Grade (LAG) elevation.
(3) The information shown above is based on the hydraulic properties of the stream and cross drains.

This information does not account for nuisance flooding caused by local drainage issues from adjacent private properties.