

LEGEND

Existing Contours

No.	Revision/Issue	Date
2	Per City Comments	05/12/10
1	Per City Comments	04/13/10

Hey and Associates, Inc.
Water Resources, Wetlands and Ecology
26575 West Commerce Drive, Suite 601
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Volo@Heyassoc.com

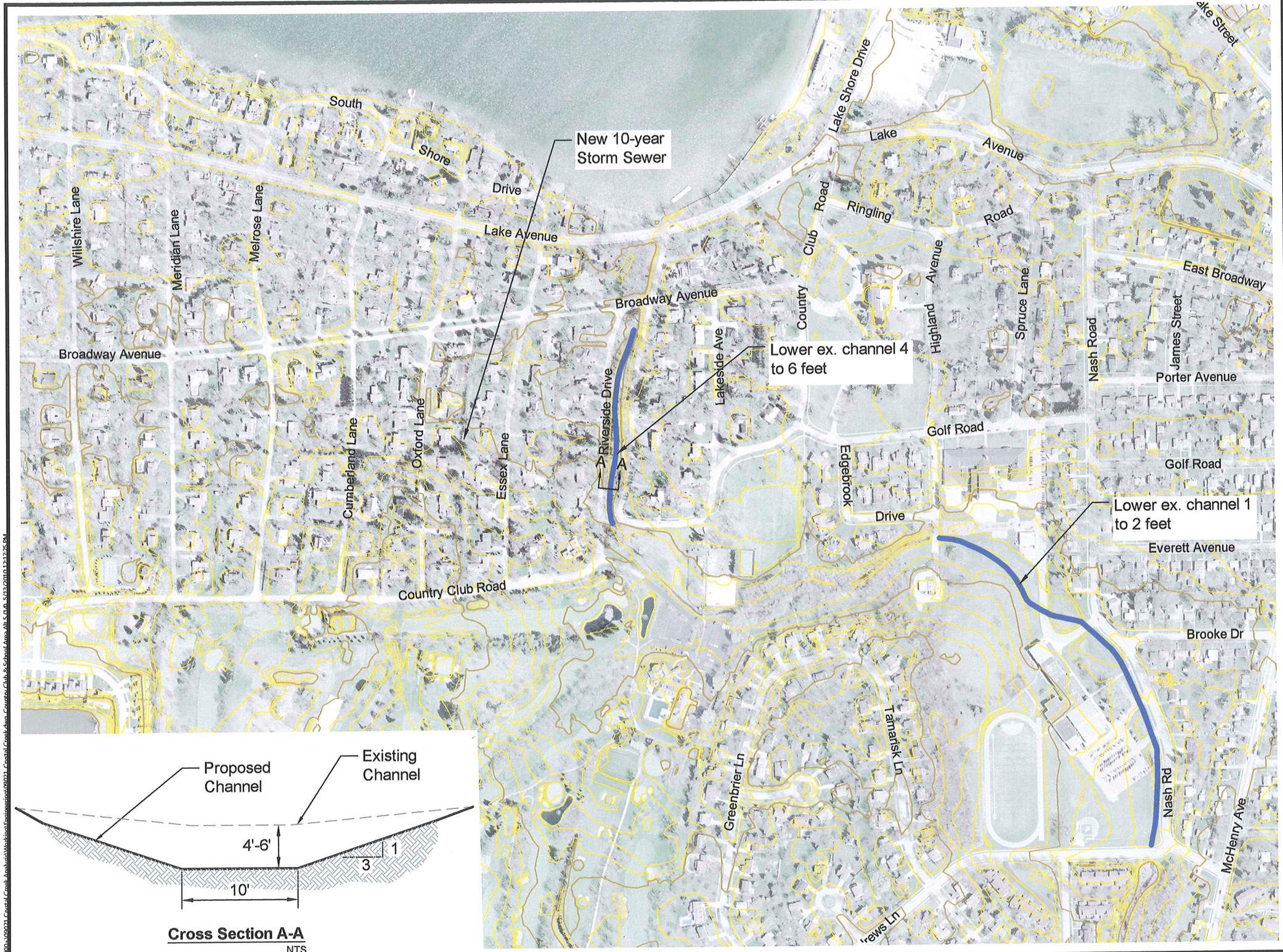
Crystal Creek Flooding Analysis

Alternative 4

PROJECT NO:	09021	SHEET NO:
DESIGNED BY	GCS/DAK	13
DRAWN BY	CFR	
CHECKED BY	GCS	
APPROVED BY	GCS	
ISSUE DATE	08/28/2009	

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Cross Section A-A
NTS

0 200 400
Scale in Feet

N

LEGEND

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Crystal Creek Flooding Analysis

Alternative 5

PROJECT NO.	09021	SHEET NO.
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DRAWN BY	CFR	
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APPROVED BY	GCS	
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Add 48" storm sewer. Approx. 1,740 LF

Broadway Avenue

Inv. = 882.7

Lower ex. channel approx. 5'

Ex. Inv.

Increase ex. 21" storm sewer to 30". Approx. 1,650 LF

Country Club Road

Increase ex. storm sewer system capacity to new Broadway Road storm sewer line

Increase culvert capacity of ex. 30" RCP to 4'x12' box culvert. Daylight immediately downstream of Edgebrook Drive

Remove ex. 30" culvert pipes. Create open channel.

Daylight Nash Road storm sewer to open channel

South Shore Drive

Lake Avenue

Lake Shore Drive

Lake Street

Ringling Road

Willshire Lane

Meridian Lane

Melrose Lane

Cumberland Lane

Oxford Lane

Essex Lane

Riverside Drive

Lakeside Ave

Country Club Road

Highland Avenue

Spruce Lane

Nash Road

James Street

East Broadway

Porter Avenue

Golf Road

Edgebrook Drive

Everett Avenue

Brooke Dr

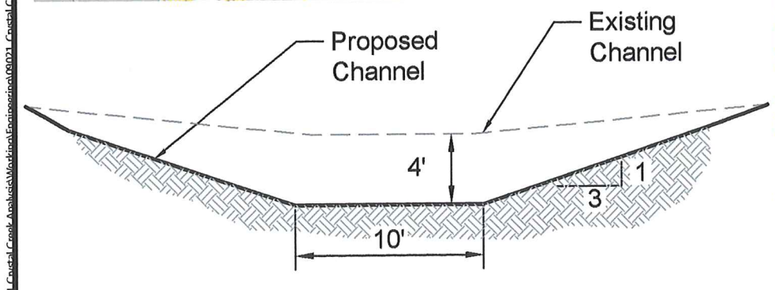
Tamarisk

Greenbrier Ln

Nash Rd

McHenry Ave

Andrews Ln



Cross Section A-A
NTS

0 200 400
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N

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Crystal Creek Flooding Analysis

Alternative 6

PROJECT NO.	09021	SHEET NO.
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APPROVED BY	GCS	
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Scale in Feet

N

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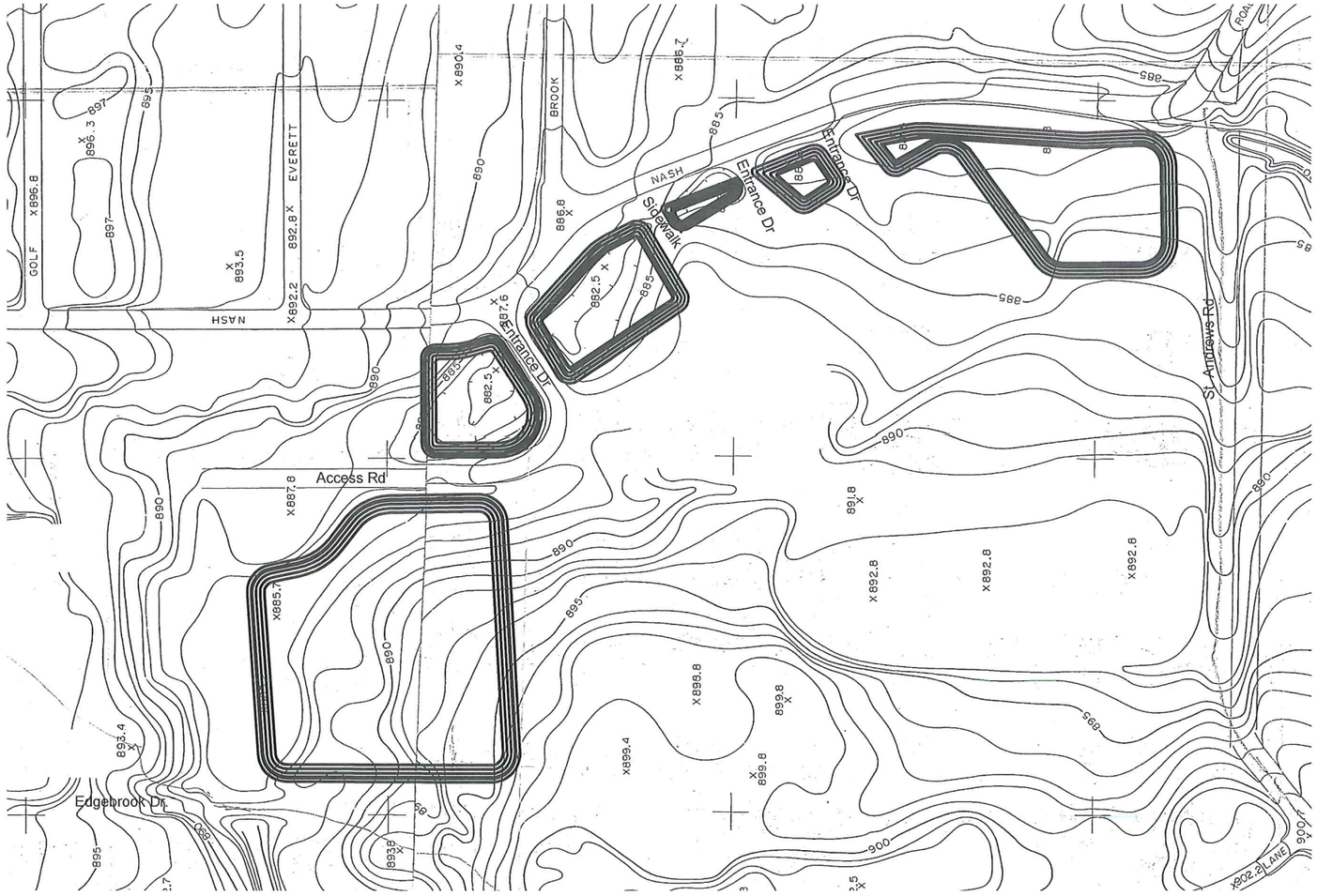
Crystal Creek Flooding Analysis

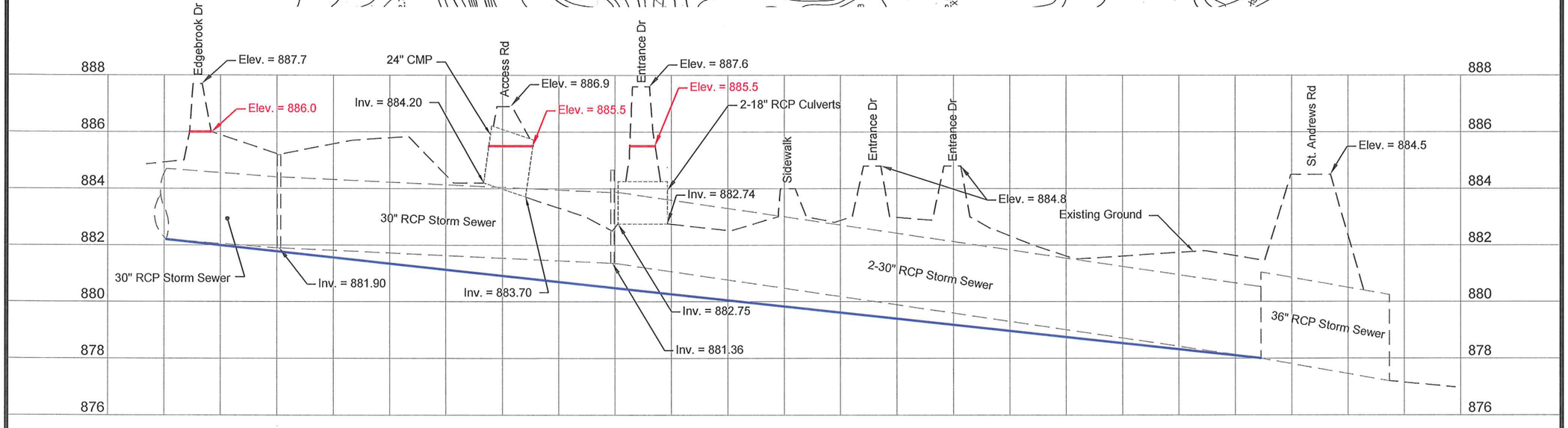
Alternative 7

PROJECT NO.	09021	SHEET NO.
DESIGNED BY	GCS/DAK	16
DRAWN BY	CFR	
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APPROVED BY	GCS	
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0 100 200
Horiz. Scale in Feet
0 2 4
Vert. Scale in Feet
N

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Alternative 4

Alternative 5

No.	Revision/Issue	Date

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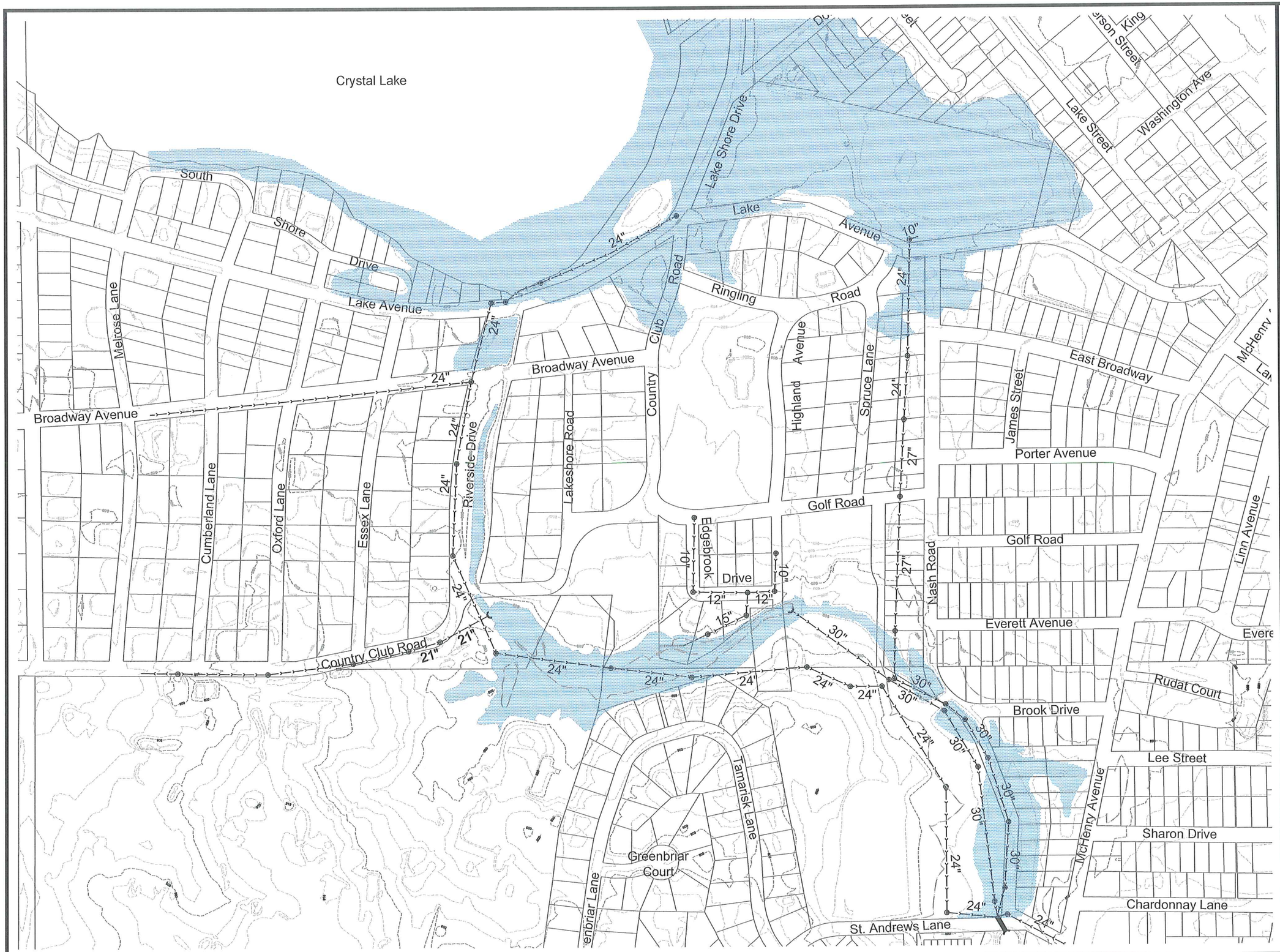
Crystal Creek Flooding Analysis

Potential Storage

PROJECT NO:	09021	SHEET NO:
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CHECKED BY	GCS	
APPROVED BY	GCS	
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0 200 400

Scale in Feet

N

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Existing Storm Sewer Pipe

Existing Contours

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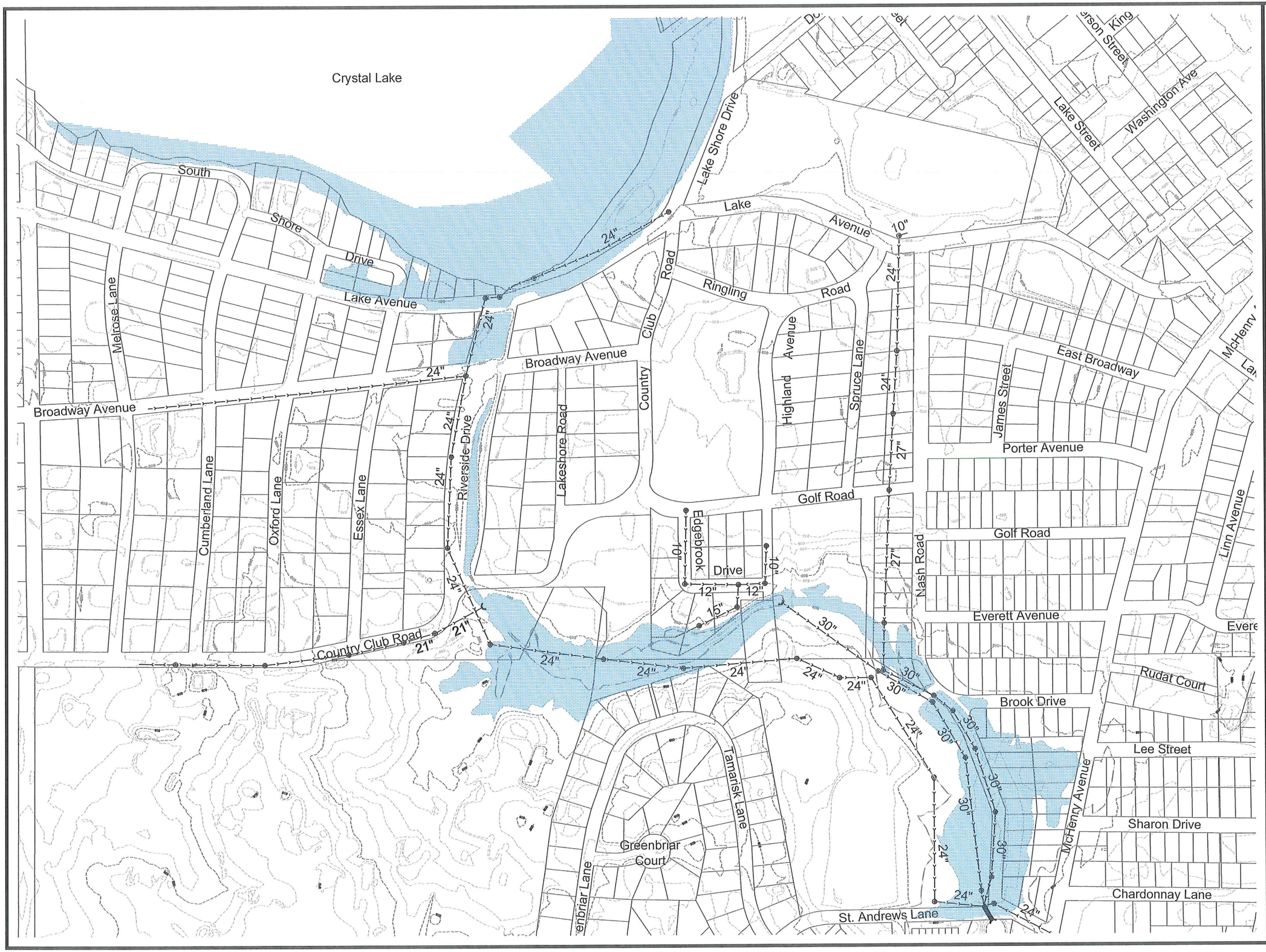
Crystal Creek Flooding Analysis

Crystal Creek Floodplain XP-SWMM Model Results

PROJECT NO:	09021	SHEET NO:
DESIGNED BY	GCS	18
DRAWN BY	CFR	
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APPROVED BY	GCS	
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Scale in Feet

N

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Existing Storm Sewer Pipe

Existing Contours

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Crystal Creek Flooding Analysis

Alternatives 1 & 2 Floodplain

PROJECT NO:	09021	SHEET NO:
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Crystal Lake

South Shore Drive

Lake Avenue

Broadway Avenue

Melrose Lane

Cumberland Lane

Oxford Lane

Essex Lane

Riverside Drive

Lakeshore Road

Country Club Road

Club Road

Lake Shore Drive

Lake Avenue

Ringling Road

Highland Avenue

Spruce Lane

Country

Edgebrook Drive

Golf Road

Nash Road

Everett Avenue

Brook Drive

Tamarisk Lane

Greenbriar Court

Greenbriar Lane

St. Andrews Lane

Lake Street

Washington Ave

East Broadway

James Street

Porter Avenue

McHenry Avenue

Linn Avenue

Rudat Court

Lee Street

Sharon Drive

Chardonnay Lane

24"

10"

27"

12"

15"

30"

21"

0 200 400

Scale in Feet

N

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Existing Storm Sewer Pipe

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Crystal Creek Flooding Analysis

Alternatives 3A & 3B Floodplain

PROJECT NO:	09021	SHEET NO:
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Scale in Feet

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Crystal Creek Flooding Analysis

Alternative 4 Floodplain

PROJECT NO:	09021	SHEET NO.
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Scale in Feet

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Crystal Creek Flooding Analysis

Alternative 5 Floodplain

PROJECT NO:	09021	SHEET NO:
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APPROVED BY	GCS	
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Crystal Creek Flooding Analysis

Alternative 6 Floodplain

PROJECT NO:	09021	SHEET NO:
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Scale in Feet

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Crystal Creek Flooding Analysis

Alternative 7 Floodplain

PROJECT NO.	09021	SHEET NO.
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