KENDALL COUNTY
STORMWATER MANAGEMENT OVERSIGHT COMMITTEE
PUBLIC HEARING

111 West Fox Street • Room 209 and 210 • Yorkville, IL • 60560
(630) 553-4141 Fax (630) 553-4179

AGENDA

September 5, 2017 – 6:00 p.m.

CALL TO ORDER

ROLL CALL: Lynn Cullick (Vice-Chair), Bob Davidson, Elizabeth Flowers, Tony Giles, Judy Gilmour, Scott Gryder (Board Chair), Audra Hendrix, Matt Kellogg, Matthew Prochaska and John Purcell

APPROVAL OF AGENDA

PUBLIC COMMENT

OPEN OF STORMWATER MANAGEMENT OVERSIGHT COMMITTEE PUBLIC HEARING

ITEM OF BUSINESS

1.	**17-24 City of Plano, Illinois**
Request	Stormwater Management Variance
Location	Foli Park
PIN	01-27-276-002
Purpose	Request for approval of a variance to Section 203.1 of the Kendall County Stormwater Management Ordinance regarding Applicability of Site Runoff Storage Requirements. The petitioner desires to create a multi-use path, pavilion and other Americans with Disabilities Act compliant amenities that will create an additional approximately 0.62 acres of impervious surface for a total of 1.26 acres of impervious area at the site.

CLOSE OF STORMWATER MANAGEMENT OVERSIGHT COMMITTEE PUBLIC HEARING

OTHER BUSINESS

ADJOURNMENT

If special accommodations or arrangements are needed to attend this County meeting, please contact the Administration Office at 630-553-4171, a minimum of 24-hours prior to the meeting time.

DEPARTMENT OF PLANNING, BUILDING & ZONING
111 West Fox Street • Room 316
Yorkville, IL • 60560
(630) 553-4141 Fax (630) 553-4179

MEMORANDUM

To: Stormwater Management Oversight Committee
From: Matthew H. Asselmeier, AICP, Senior Planner
Date: August 28, 2017
Re: Petition 17-24 – Proposed Stormwater Management Request for City of Plano Project in Foli Park

Kendall County received a request from the City of Plano for a variance to Section 203.1 of the Kendall County Stormwater Management Ordinance. The City of Plano desires to create a multi-use path, pavilion and other Americans with Disabilities Act compliant amenities at Foli Park. The proposed project will create approximately 0.62 acres of impervious surface; a total of approximately 1.26 acres of impervious surface would be located at the site if the variance is approved and the project is developed as proposed.

The City of Plano's application is included as Attachment 1. A diagram of the proposal can be found on page 13 of this attachment.

The City of Plano's engineering consultant's comments are included as Attachment 2. Greg Chismark, from WBK, also provided comments which are included as Attachment 3.

Based on the information provided by the City of Plano and WBK, Staff believes that the following findings of fact as required by Section 904.1 of the Kendall County Stormwater Management Ordinance have been met:

1. The variance will not increase the probability of flood damage or create an additional threat to the public health, safety or welfare.

2. The variance requested is the minimum relief necessary to accomplish the objectives of the development without compromising the objectives of Section 102 of the Kendall Stormwater Management Ordinance.

3. The variance will not result in a reduction of water quality benefits as compared to compliance with ordinance requirements.

4. The variance is not requested solely for the purpose of reducing site runoff storage requirements.

5. The variance shall not cause conveyance of stormwater from the project to increase peak discharges beyond design capacity of existing offsite conveyance facilities for any storm event from the 2-year to the 100-year recurrence frequency.

6. The variance shall seek to preserve valuable environmental and biological resources including but not limited to stands of native trees, existing wetlands and natural floodplain storage.

Staff recommends approval of the variance as proposed on the condition that the City of Plano secures all applicable permits required by local, State and Federal regulatory agencies and abides

by any conditions placed on the permits. A copy of a proposed variance ordinance is included as Attachment 4.

If you have any questions prior to the September 5th meeting, please let me know.

MHA

Attachment 1 City of Plano Application
Attachment 2 Wellbank Comments
Attachment 3 Chismark Comments
Attachment 4 Draft Variance Ordinance

Birthplace of the Harvester

CITY OF PLANO

17 E. Main Street
Plano, Illinois 60545

Mayor 630-552-3210

City Clerk (630) 552-8275
City Treasurer (630) 552-8823

Fax 630-552-8292

Public Works (630) 552-7000
Building & Zoning (630) 552-8425

City of Plano Application for Stormwater Variance for Foli Park Development

A. Common Address and Legal Description:Kendall County Parcel # 01-27-276-002. Brief Legal Description: Sec 27-37-6 City of Plano
B. Owner: City of Plano, 17 E. Main St. Plano, Il. 60545
C. N/A
D. N/A
E. Consulting Engineeer for development: Robinson Engineering, 17000 South Park Ave., South Holland, Il
F. Names and addresses of property owners within 250 feet: Attached
G. Specific features of the development that require a variance: The multi-use path, pavilion and other ADA compliant amenities create approximately .62 additional impervious surfaces
H. Specific provision of the City Stormwater Ordinance that the variance is sought: Title 6-17-3-1 of the City of Plano City Code (Stormwater Ordinance)
i. Specific provision of the Kendall County Stormwater Ordinance that the variance is sought: Sec. 203.1 of the Kendall County Stormwater Ordinance

J. The project is funded by an Open Space Lands Acquisition and Development grant to add recreational value to Foli Park. The banks of the pond at Foli Park consist of steep slopes to the southwest, south, and southeast; naturalized and wooded areas to the east, north, and northwest; wetlands to the northeast; and flatter areas suitable for recreational use on the west bank. Heavy machinery needed for earth excavation would have difficulty navigating the steep slopes in Foli Park without further bank modifications. Excavation of the pond banks elsewhere would necessitate extensive tree and root removal in wooded and naturalized areas, mitigation for wetland impacts, or significantly reduce the area suitable for recreational use. Reduction in the recreational use area diminishes the overall recreational value of Foli Park to the City of Plano's residents.

K. A statement that the variance is the minimum variance to permit development: The variance of the detention requirement requested is the minimum variance necessary to permit the development.

L.

(Kendall County Stormwater Management Ordinance, Section 904.1):

A. The variance will not increase the probability of flood damage or create an additional threat to the public health, safety, or welfare. The pond at Foli Park does not have a connection to Big Rock Creek. All stormwater tributary to Foli Park must either infiltrate or evaporate.
B. The requested variance will allow construction of the proposed recreational amenities and will not compromise any of the goals of the Kendall County Stormwater Management Ordinance.
C. A variance will not result in the reduction of water quality benefits as compared to compliance with ordinance requirements because naturalized areas surrounding the pond will be preserved.

D. The variance is requested to provide a recreational amenity to the residents of the City of Plano.
E. All stormwater runoff is tributary to the pond at Foli Park, and the pond is not tributary to offsite conveyance facilities.

The variance seeks to preserve the native trees, existing wetlands, and natural features at Foli Park. Without a variance, the aforementioned resources would be impacted.

Kendall County, Illinois

Information for Parcel 01-27-276-002, Tax Year 2016

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Property Information

Tax Year 2016	**Tax Code** LR003
Township Little Rock Township	**Neighborhood** 139 - Incorporated Section 27
Property Class 0090-TAX EXEMPT	**Land Use** 0090-
Tax Status Exempt	**Lot Size**
Net Taxable Value 0	**Tax Rate**
Site Address	**Total Tax** $0.00
Owner Name and Address CITY OF PLANO 17 E MAIN ST PLANO, IL 60545	**Mailing Name and Address** CITY OF PLANO 17 E MAIN ST PLANO, IL 60545
Legal Description SEC 27-37-6 CITY OF PLANO	

Legal Descriptions

Legal Description	Section/Township/Range	Document
SEC 27-37-6 CITY OF PLANO		

Within 250' of Foli Park

3/24/17

Bernd & Heidi Bresilge	703 Esta Drive
Clarence & Jacquelynn Bretthauer	212 Sandy Lane
Theda McMinn	210 Sandy Lane
Arthur & Donna Bruesewitz	208 Sandy Lane
Timothy & April Young	206 Sandy Lane
Ronald Kermeen	204 Sandy Lane
Rafael & Sandra Gonzalez	703 S. Hale Street
Paul & Sheryl Heller	705 S. Hale Street
Charles & Betty Ramsden	707 S. Hale Street
Iris Aponte	205 E. Larson Street
Dennis Fahrlander	209 E. Larson Street
Timothy & Kathleen Tyler	712 Esta Drive
Andy James Buchanan	707 Esta Drive
Diane Brockway	706 Esta Drive
Rebecca Larrabee	705 Esta Drive
Jesse & Linda Stonecipher	801 S. Hale Street
Ricard Clappper & Patricia Redden	208 E. Larson Drive
Jared & Casey Michalski	875 S. Hale Street
Plano CUSD # 88	804 S. Hale Street
Cedardell Golf Club	14264 Hale Road
Corbin Land LLC	3971 Needham Road

PREPARED BY:
Thomas W. Grant
Attorney at Law
200 Hillcrest Avenue
Yorkville, IL 60560
(630) 553-0088

ORDINANCE NO. 2017-34

AN ORDINANCE GRANTING VARIATION
FROM THE CITY OF PLANO STORMWATER MANGEMENT ORDINANCE
TITLE 6, CHAPTER 17, SECTION 3-1 OF THE PLANO CITY CODE

OWNER: CITY OF PLANO
PROPERTY: FOLI PARK, PLANO, ILLINOIS

WHEREAS, the CITY OF PLANO, on its own behalf, has filed an Application for Stormwater Variance for the Foli Park Development. A Variance is sought from Section 6-17-3-1 of the Plano City Code (Stormwater Ordinance) and from the provisions of the Kendall County Stormwater Ordinance, Section 203.1, and

WHEREAS, the Streets and Utilities Committee conducted a Public Hearing on the requested Variation in the City Council Chambers, Plano, Illinois, on June 26, 2017. All members of the Committee were present. Also present was Matt Asselmeier, from the Kendall County Planning, Building and Zoning Department. No members of the public appeared and no members of the public offered any comment regarding the Application for Variance, and

WHEREAS, the Streets and Utilities Committee has considered the Application

for Stormwater Variance for Foli Park Development, and has reviewed and considered the Master Report for Foli Park Stormwater Detention prepared by Jacob Wellbank, PEI, from Robinson Engineering and has considered the Summary of Site Stormwater Management Requirements for the Site and the Project, and based upon the foregoing, and in conformity with Section 6-5-11-B, the Streets and Utilities Committee recommends to the City Council that the Variation be granted; and

WHEREAS, the Variance is consistent with the purpose and intent of the City's Stormwater Ordinance and the Kendall County Stormwater Ordinance based upon the Committee's consideration of the evidence submitted with the Variance Application and at the hearing, and

WHEREAS, the Committee's Findings of Fact are based upon the contents of the Application and the attachments thereto; and

WHEREAS, based upon the foregoing, the Streets and Utilities Committee has recommended to the City Council the granting of the Variance and recommends to Kendall County the granting of the Variance.

NOW, THEREFORE, BE IT ORDAINED by the Mayor and City Council of the City of Plano, Kendall County, Illinois, based upon a 2/3rds vote of the members of the City Council as follows:

Section 1. That a variation be and the same is hereby granted from the applicable provisions of the Stormwater Management Ordinance of the City to authorize and permit the development of the Foli Park improvements without the requirement of the installation and maintenance of an additional detention pond or basin, being a variation

from Section 6-17-3-1 of the Plano City Code.

Section 2. The City Council herewith and hereby adopts the findings of fact and the recommendations of the Zoning Board of Appeals, a copy of which are attached hereto and made a part hereof.

Section 3. All Ordinances or parts of Ordinances in conflict herewith shall be and the same are hereby superceded insofar as such conflict exists and insofar as they are applicable to the real estate specifically described herein.

Section 4. This Ordinance shall be in full force and effect from and after its passage and approval as provided by Law.

PASSED by the City Council of the City of Plano, Kendall County, Illinois, on the 24th day of July, 2017.

SIGNED and APPROVED by the Mayor of the City of Plano, Kendall County, Illinois, on the 25th day of July, 2017.

Mayor

ATTEST:

City Clerk

Y:\CITY OF PLANO\ORDINANCES.2017\Stormwater Variation.doc

CITY OF PLANO
STREETS AND UTILITIES COMMITTEE
FINDINGS OF FACT AND RECOMMENDATION REGARDING
STORMWATER VARIANCE FOR FOLI PARK DEVELOPMENT

The CITY OF PLANO, on its own behalf, has filed an Application for Stormwater Variance for the Foli Park Development. A Variance is sought from Section 6-17-3-1 of the Plano City Code (Stormwater Ordinance) and from the provisions of the Kendall County Stormwater Ordinance, Section 203.1.

The Streets and Utilities Committee conducted a Public Hearing on the requested Variation in the City Council Chambers, Plano, Illinois, on June 26, 2017. All members of the Committee were present. Also present was Matt Asselmeier, from the Kendall County Planning, Building and Zoning Department. No members of the public appeared and no members of the public offered any comment regarding the Application for Variance.

The Streets and Utilities Committee has considered the Application for Stormwater Variance for Foli Park Development, and has reviewed and considered the Master Report for Foli Park Stormwater Detention prepared by Jacob Wellbank, PEI, from Robinson Engineering and has considered the Summary of Site Stormwater Management Requirements for the Site and the Project.

Based upon the foregoing, and in conformity with Section 6-5-11-B, the Streets and Utilities Committee recommends to the City Council that the Variation be granted. The Variance is consistent with the purpose and intent of the City's Stormwater Ordinance and the Kendall County Stormwater Ordinance based upon the Committee's consideration of the evidence submitted with the Variance Application and at the hearing.

A. The proposed development is not in the regulatory floodway.

B. The Variance will not increase the probability of flood damage or cause or create an additional threat to the public health, safety or welfare, or be injurious to other property or improvements in the locale in which the property is located.

C. The Variance requested is the minimum relief necessary to accomplish the objectives of the development without compromising any of the objectives of the Stormwater Ordinance.

D. The Variance will not result in a reduction of water quality benefits as compared to compliance with the Stormwater Ordinance requirements.

E. The Variance will not cause conveyance of Stormwater from the project to increase peak discharges beyond design capacity of existing offsite conveyance facilities for any storm event from the 2-year to the 100-year recurrence frequency.

F. The Variance will not impact valuable environmental and biological resources including but not limited to stands of native trees, existing wetlands and/or natural floodplain storage.

G. Because of the particular physical surroundings, shape or topographic conditions of the specific property involved, a particular hardship to the owner, the City, would result, as distinguished from a mere inconvenience, if the strict letter of the regulations were carried out.

H. The conditions upon which the request for a Variation are based are unique to the property for which the Variation is sought and are not applicable, generally, to other property, and have not been created by any person having an interest in the property.

I. The purpose of the Variation is not based upon economic feasibility.

J. The development activity cannot be located outside the SFHA.

K. There will be no additional public expense for flood protection, lost environmental stream uses and functions, rescue or relief operations, policing, or repairs to streambeds and banks, roads, utilities, or other public facilities.

L. All other requirements of the Stormwater Ordinance shall be met.

M. The Applicant's circumstances are unique and do not establish a pattern inconsistent with the intent of the NFIP.

N. The granting of the Variance will not alter the essential character of the area involved including existing stream uses.

O. All other required State and Federal permits or waivers have been or will be obtained.

The foregoing specific Findings of Fact are based upon the contents of the Application and the attachments thereto.

Based upon the foregoing, the Streets and Utilities Committee recommends to the City Council the granting of the Variance and recommends to Kendall County the granting of the Variance.

Streets and Utilities Committee

Member

Member

Member

Member

Member

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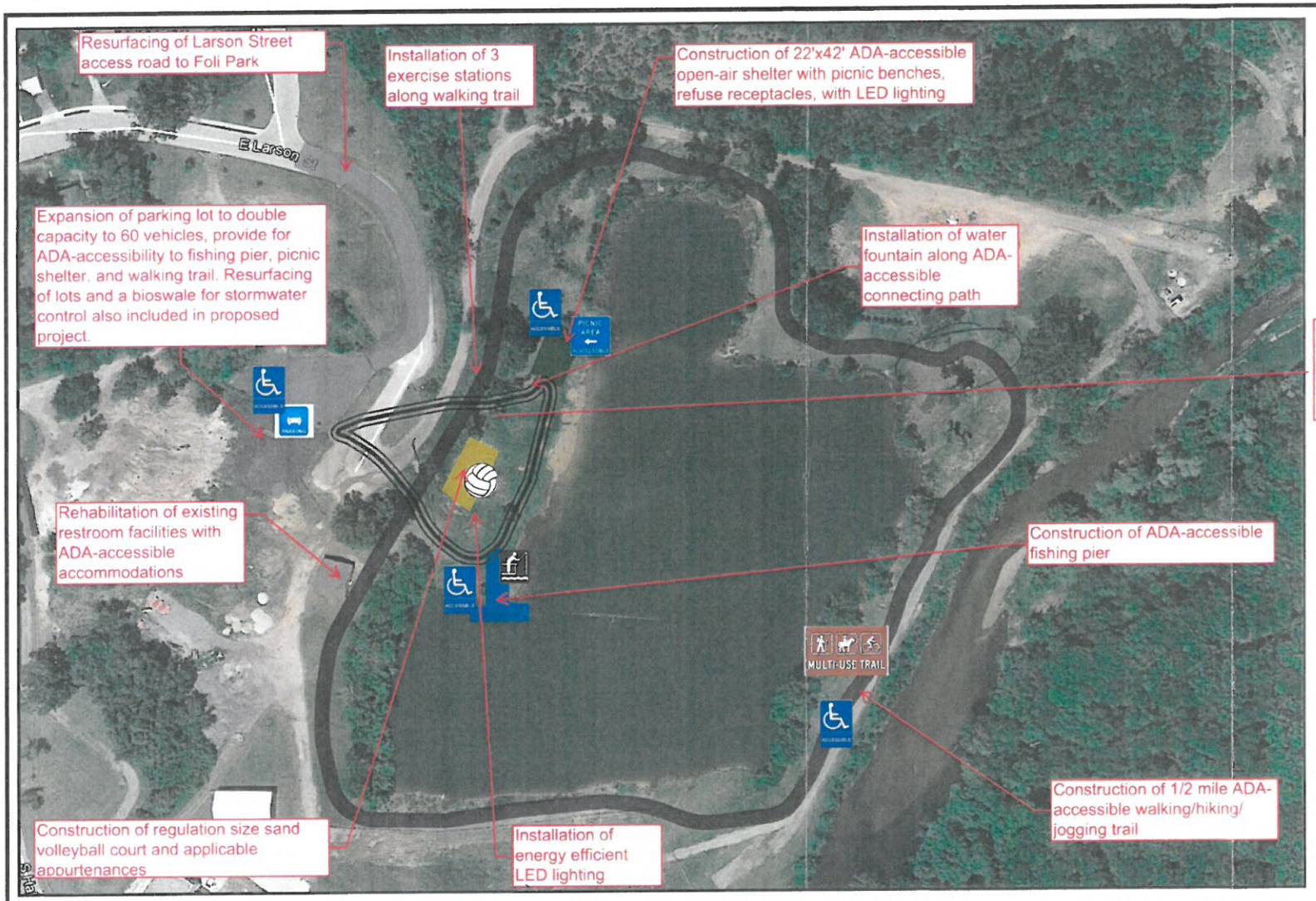

PROPOSED FOLI PARK DEVELOPMENT
2014 OSLAD APPLICATION
CITY OF PLANO, IL

Project Summary	
Title	Foli Park Improvements - City of Plano, IL
Engineer	Jacob C. Wellbank, PEI
Company	Robinson Engineering, Ltd.
Date	3/22/2017

Notes

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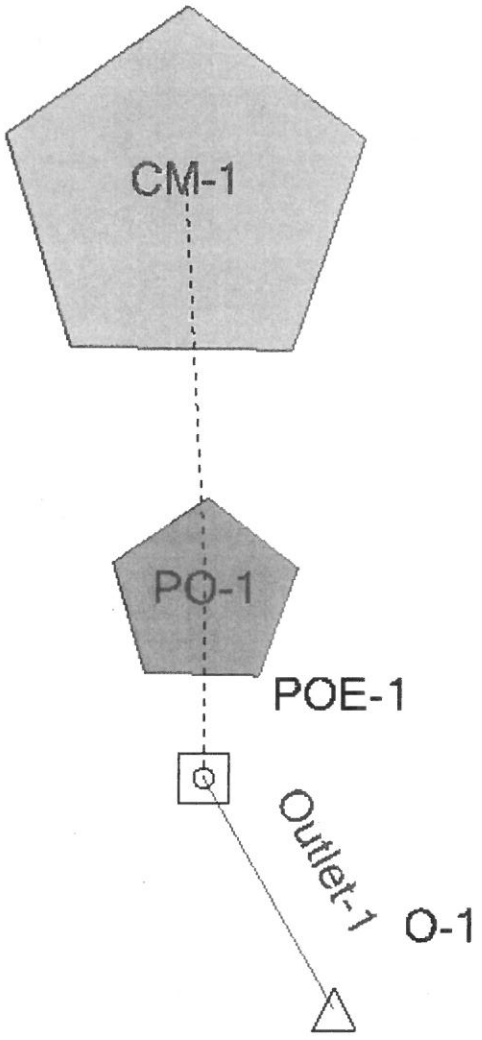
System Overview



Subsection: Master Network Summary

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (min)	Peak Flow (ft^3/s)
CM-1	Post-Development 2-Year Rainfall Event (B71 Huff Dist)	2	0.324	936.000	0.56
CM-1	Post-Development 100-Year Rainfall Event (B17 Huff Dist)	100	1.044	936.000	1.58

Node Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (min)	Peak Flow (ft^3/s)
O-1	Post-Development 2-Year Rainfall Event (B71 Huff Dist)	2	0.219	1,443.000	0.08
O-1	Post-Development 100-Year Rainfall Event (B17 Huff Dist)	100	0.745	1,442.000	0.30

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (min)	Peak Flow (ft^3/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ac-ft)
PO-1 (IN)	Post-Development 2-Year Rainfall Event (B71 Huff Dist)	2	0.324	936.000	0.56	(N/A)	(N/A)
PO-1 (OUT)	Post-Development 2-Year Rainfall Event (B71 Huff Dist)	2	0.219	1,443.000	0.08	101.18	0.243
PO-1 (IN)	Post-Development 100-Year Rainfall Event (B17 Huff Dist)	100	1.044	936.000	1.58	(N/A)	(N/A)
PO-1 (OUT)	Post-Development 100-Year Rainfall Event (B17 Huff Dist)	100	0.745	1,442.000	0.30	103.09	0.746

Subsection: Time-Depth Curve
Label: B70, Huff<10, 2-year

Return Event: 2 years
Storm Event: 24h

Time-Depth Curve: 24h	
Label	24h
Start Time	0.000 min
Increment	14.400 min
End Time	1,440.000 min
Return Event	2 years

CUMULATIVE RAINFALL (in)
Output Time Increment = 14.400 min
Time on left represents time for first value in each row.

Time (min)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
0.000	0.00	0.02	0.04	0.06	0.08
72.000	0.09	0.11	0.13	0.15	0.17
144.000	0.18	0.20	0.22	0.24	0.25
216.000	0.27	0.29	0.31	0.33	0.35
288.000	0.37	0.38	0.40	0.42	0.44
360.000	0.47	0.49	0.51	0.53	0.55
432.000	0.57	0.60	0.62	0.65	0.67
504.000	0.69	0.72	0.75	0.77	0.80
576.000	0.83	0.85	0.88	0.91	0.94
648.000	0.98	1.01	1.04	1.08	1.12
720.000	1.15	1.19	1.23	1.28	1.32
792.000	1.37	1.44	1.52	1.59	1.66
864.000	1.73	1.81	1.89	1.97	2.05
936.000	2.13	2.18	2.24	2.29	2.35
1,008.000	2.40	2.44	2.47	2.51	2.55
1,080.000	2.58	2.61	2.63	2.66	2.68
1,152.000	2.71	2.72	2.74	2.76	2.78
1,224.000	2.80	2.82	2.83	2.85	2.87
1,296.000	2.89	2.90	2.91	2.92	2.94
1,368.000	2.95	2.97	2.99	3.00	3.02
1,440.000	3.04	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time-Depth Curve
Label: B70, Huff<10, 100-year

Return Event: 100 years
Storm Event: 24h

Time-Depth Curve: 24h	
Label	24h
Start Time	0.000 min
Increment	14.400 min
End Time	1,440.000 min
Return Event	100 years

CUMULATIVE RAINFALL (in)
Output Time Increment = 14.400 min
Time on left represents time for first value in each row.

Time (min)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
0.000	0.00	0.05	0.10	0.14	0.19
72.000	0.23	0.28	0.32	0.37	0.41
144.000	0.46	0.50	0.54	0.59	0.63
216.000	0.68	0.72	0.77	0.82	0.86
288.000	0.91	0.96	1.01	1.06	1.11
360.000	1.16	1.21	1.27	1.32	1.38
432.000	1.43	1.49	1.55	1.61	1.67
504.000	1.73	1.79	1.86	1.92	1.99
576.000	2.06	2.13	2.20	2.28	2.36
648.000	2.44	2.52	2.60	2.69	2.78
720.000	2.88	2.97	3.08	3.18	3.30
792.000	3.42	3.60	3.78	3.96	4.14
864.000	4.32	4.52	4.71	4.91	5.11
936.000	5.31	5.44	5.58	5.72	5.85
1,008.000	5.99	6.08	6.17	6.26	6.35
1,080.000	6.44	6.50	6.56	6.62	6.69
1,152.000	6.75	6.79	6.84	6.88	6.93
1,224.000	6.97	7.02	7.06	7.11	7.16
1,296.000	7.20	7.23	7.26	7.29	7.32
1,368.000	7.35	7.40	7.44	7.49	7.53
1,440.000	7.58	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time of Concentration Calculations
Label: CM-1

Return Event: 2 years
Storm Event: 24h

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.013
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.04 in
Average Velocity	1.17 ft/s
Segment Time of Concentration	1.421 min

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	243.00 ft
Is Paved?	False
Slope	0.060 ft/ft
Average Velocity	3.95 ft/s
Segment Time of Concentration	1.025 min

Time of Concentration (Composite)	
Time of Concentration (Composite)	5.000 min

Subsection: Time of Concentration Calculations
Label: CM-1

Return Event: 2 years
Storm Event: 24h

==== SCS Channel Flow

Tc =

R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:

R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =

Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:

V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Subsection: Time of Concentration Calculations
Label: CM-1

Return Event: 100 years
Storm Event: 24h

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.013
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.04 in
Average Velocity	1.17 ft/s
Segment Time of Concentration	1.421 min

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	243.00 ft
Is Paved?	False
Slope	0.060 ft/ft
Average Velocity	3.95 ft/s
Segment Time of Concentration	1.025 min

Time of Concentration (Composite)	
Time of Concentration (Composite)	5.000 min

Subsection: Time of Concentration Calculations
Label: CM-1

Return Event: 100 years
Storm Event: 24h

==== SCS Channel Flow

Tc =

R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:

R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =

Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:

V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Subsection: Unit Hydrograph Equations

Unit Hydrograph Method (Computational Notes)
Definition of Terms

At	Total area (acres): At = Ai+Ap
Ai	Impervious area (acres)
Ap	Pervious area (acres)
CNi	Runoff curve number for impervious area
CNp	Runoff curve number for pervious area
fLoss	f loss constant infiltration (depth/time)
gKs	Saturated Hydraulic Conductivity (depth/time)
Md	Volumetric Moisture Deficit
Psi	Capillary Suction (length)
hK	Horton Infiltration Decay Rate (time^-1)
fo	Initial Infiltration Rate (depth/time)
fc	Ultimate(capacity)Infiltration Rate (depth/time)
Ia	Initial Abstraction (length)
dt	Computational increment (duration of unit excess rainfall) Default dt is smallest value of 0.1333Tc, rtm, and th (Smallest dt is then adjusted to match up with Tp)
UDdt	User specified override computational main time increment (only used if UDdt is => .1333Tc)
D(t)	Point on distribution curve (fraction of P) for time step t
K	2 / (1 + (Tr/Tp)): default K = 0.75: (for Tr/Tp = 1.67)
Ks	Hydrograph shape factor = Unit Conversions * K: = ((1hr/3600sec) * (1ft/12in) * ((5280ft)**2/sq.mi)) * K Default Ks = 645.333 * 0.75 = 484
Lag	Lag time from center of excess runoff (dt) to Tp: Lag = 0.6Tc
P	Total precipitation depth, inches
Pa(t)	Accumulated rainfall at time step t
Pi(t)	Incremental rainfall at time step t
qp	Peak discharge (cfs) for 1in. runoff, for 1hr, for 1 sq.mi. = (Ks * A * Q) / Tp (where Q = 1in. runoff, A=sq.mi.)
Qu(t)	Unit hydrograph ordinate (cfs) at time step t
Q(t)	Final hydrograph ordinate (cfs) at time step t
Rai(t)	Accumulated runoff (inches) at time step t for impervious area
Rap(t)	Accumulated runoff (inches) at time step t for pervious area
Rii(t)	Incremental runoff (inches) at time step t for impervious area
Rip(t)	Incremental runoff (inches) at time step t for pervious area
R(t)	Incremental weighted total runoff (inches)
Rtm	Time increment for rainfall table
Si	S for impervious area: Si = (1000/CNi) - 10
Sp	S for pervious area: Sp = (1000/CNp) - 10
t	Time step (row) number
Tc	Time of concentration
Tb	Time (hrs) of entire unit hydrograph: Tb = Tp + Tr
Tp	Time (hrs) to peak of a unit hydrograph: Tp = (dt/2) + Lag
Tr	Time (hrs) of receding limb of unit hydrograph: Tr = ratio of Tp

Subsection: Unit Hydrograph Equations

Unit Hydrograph Method
Computational Notes
Precipitation

Column (1)	Time for time step t
Column (2)	D(t) = Point on distribution curve for time step t
Column (3)	Pi(t) = Pa(t) - Pa(t-1): Col.(4) - Preceding Col.(4)
Column (4)	Pa(t) = D(t) x P: Col.(2) x P

Pervious Area Runoff (using SCS Runoff CN Method)

	Rap(t) = Accumulated pervious runoff for time step t If (Pa(t) is <= 0.2Sp) then use: Rap(t) = 0.0
Column (5)	If (Pa(t) is > 0.2Sp) then use:
	Rap(t) = (Col.(4)-0.2Sp)**2 / (Col.(4)+0.8Sp)
	Rip(t) = Incremental pervious runoff for time step t
Column (6)	Rip(t) = Rap(t) - Rap(t-1) Rip(t) = Col.(5) for current row - Col.(5) for preceding row.

Impervious Area Runoff

Column (7 & 8)...	Did not specify to use impervious areas.

Incremental Weighted Runoff

Column (9)	R(t) = (Ap/At) x Rip(t) + (Ai/At) x Rii(t) R(t) = (Ap/At) x Col.(6) + (Ai/At) x Col.(8)

SCS Unit Hydrograph Method

Column (10)	Q(t) is computed with the SCS unit hydrograph method using R(t) and Qu(t).

Subsection: Unit Hydrograph Summary
Label: CM-1

Return Event: 2 years
Storm Event: 24h

Storm Event	24h
Return Event	2 years
Duration	2,880.000 min
Depth	3.04 in
Time of Concentration (Composite)	5.000 min
Area (User Defined)	1.989 acres

Computational Time Increment	0.667 min
Time to Peak (Computed)	936.000 min
Flow (Peak, Computed)	0.56 ft³/s
Output Increment	1.000 min
Time to Flow (Peak Interpolated Output)	936.000 min
Flow (Peak Interpolated Output)	0.56 ft³/s

Drainage Area	
SCS CN (Composite)	89.204
Area (User Defined)	1.989 acres
Maximum Retention (Pervious)	1.21 in
Maximum Retention (Pervious, 20 percent)	0.24 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.95 in
Runoff Volume (Pervious)	0.324 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.324 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	5.000 min
Computational Time Increment	0.667 min
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	27.04 ft³/s
Unit peak time, Tp	3.333 min
Unit receding limb, Tr	13.333 min
Total unit time, Tb	16.667 min

Subsection: Unit Hydrograph Summary
Label: CM-1

Return Event: 100 years
Storm Event: 24h

Storm Event	24h
Return Event	100 years
Duration	2,880.000 min
Depth	7.58 in
Time of Concentration (Composite)	5.000 min
Area (User Defined)	1.989 acres
Computational Time Increment	0.667 min
Time to Peak (Computed)	936.000 min
Flow (Peak, Computed)	1.58 ft³/s
Output Increment	1.000 min
Time to Flow (Peak Interpolated Output)	936.000 min
Flow (Peak Interpolated Output)	1.58 ft³/s

Drainage Area	
SCS CN (Composite)	89.204
Area (User Defined)	1.989 acres
Maximum Retention (Pervious)	1.21 in
Maximum Retention (Pervious, 20 percent)	0.24 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.30 in
Runoff Volume (Pervious)	1.044 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1.044 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	5.000 min
Computational Time Increment	0.667 min
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	27.04 ft³/s
Unit peak time, Tp	3.333 min
Unit receding limb, Tr	13.333 min
Total unit time, Tb	16.667 min

Subsection: Addition Summary
Label: O-1

Return Event: 2 years
Storm Event: 24h

Summary for Hydrograph Addition at 'O-1'

Upstream Link	Upstream Node
Outlet-1	PO-1

Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (min)	Flow (Peak) (ft^3/s)
Flow (From)	Outlet-1	0.219	1,443.000	0.08
Flow (In)	O-1	0.219	1,443.000	0.08

Subsection: Addition Summary
Label: O-1

Return Event: 100 years
Storm Event: 24h

Summary for Hydrograph Addition at 'O-1'

Upstream Link	Upstream Node
Outlet-1	PO-1

Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (min)	Flow (Peak) (ft^3/s)
Flow (From)	Outlet-1	0.745	1,442.000	0.30
Flow (In)	O-1	0.745	1,442.000	0.30

Subsection: Elevation-Area Volume Curve
Label: PO-1

Return Event: 2 years
Storm Event: 24h

Elevation (ft)	Planimeter (ft^2)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
100.00	0.0	0.186	0.000	0.000	0.000
101.00	0.0	0.220	0.609	0.203	0.203
102.00	0.0	0.258	0.717	0.239	0.442
103.00	0.0	0.298	0.834	0.278	0.720
104.00	0.0	0.342	0.959	0.320	1.040

Subsection: Volume Equations
Label: PO-1

Return Event: 2 years
Storm Event: 24h

Pond Volume Equations
*** Incremental volume computed by the Conic Method for Reservoir Volumes.**

Volume = (1/3) * (EL2 - El1) * (Area1 + Area2 + sqr(Area1 * Area2))

where:	EL1, EL2	Lower and upper elevations of the increment
	Area1, Area2	Areas computed for EL1, EL2, respectively
	Volume	Incremental volume between EL1 and EL2

Subsection: Elevation-Area Volume Curve
Label: PO-1

Return Event: 100 years
Storm Event: 24h

Elevation (ft)	Planimeter (ft^2)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
100.00	0.0	0.186	0.000	0.000	0.000
101.00	0.0	0.220	0.609	0.203	0.203
102.00	0.0	0.258	0.717	0.239	0.442
103.00	0.0	0.298	0.834	0.278	0.720
104.00	0.0	0.342	0.959	0.320	1.040

Subsection: Volume Equations
Label: PO-1

Return Event: 100 years
Storm Event: 24h

Pond Volume Equations
*** Incremental volume computed by the Conic Method for Reservoir Volumes.**

Volume = (1/3) * (EL2 - El1) * (Area1 + Area2 + sqr(Area1 * Area2))

where:	EL1, EL2	Lower and upper elevations of the increment
	Area1, Area2	Areas computed for EL1, EL2, respectively
	Volume	Incremental volume between EL1 and EL2

Subsection: Outlet Input Data
Label: Composite Outlet Structure - 1

Return Event: 2 years
Storm Event: 24h

Requested Pond Water Surface Elevations	
Minimum (Headwater)	100.00 ft
Increment (Headwater)	0.05 ft
Maximum (Headwater)	104.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Orifice-Circular	Orifice - 2-year (0.08 cfs)	Forward	TW	100.00	104.00
Orifice-Circular	Orifice - 100-year (0.30 cfs)	Forward	TW	101.20	104.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: Composite Outlet Structure - 1

Return Event: 2 years
Storm Event: 24h

Structure ID: Orifice - 2-year (0.08 cfs) Structure Type: Orifice-Circular	
Number of Openings	1
Elevation	100.00 ft
Orifice Diameter	1.75 in
Orifice Coefficient	0.600

Structure ID: Orifice - 100-year (0.30 cfs) Structure Type: Orifice-Circular	
Number of Openings	1
Elevation	101.20 ft
Orifice Diameter	2.15 in
Orifice Coefficient	0.600

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft^3/s
Flow Tolerance (Maximum)	10.000 ft^3/s

Subsection: Outlet Input Data
Label: Composite Outlet Structure - 1

Return Event: 100 years
Storm Event: 24h

Requested Pond Water Surface Elevations	
Minimum (Headwater)	100.00 ft
Increment (Headwater)	0.05 ft
Maximum (Headwater)	104.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Orifice-Circular	Orifice - 2-year (0.08 cfs)	Forward	TW	100.00	104.00
Orifice-Circular	Orifice - 100-year (0.30 cfs)	Forward	TW	101.20	104.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data
Label: Composite Outlet Structure - 1

Return Event: 100 years
Storm Event: 24h

Structure ID: Orifice - 2-year (0.08 cfs) Structure Type: Orifice-Circular	
Number of Openings	1
Elevation	100.00 ft
Orifice Diameter	1.75 in
Orifice Coefficient	0.600

Structure ID: Orifice - 100-year (0.30 cfs) Structure Type: Orifice-Circular	
Number of Openings	1
Elevation	101.20 ft
Orifice Diameter	2.15 in
Orifice Coefficient	0.600

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft^3/s
Flow Tolerance (Maximum)	10.000 ft^3/s

Subsection: Level Pool Pond Routing Summary
Label: PO-1 (IN)

Return Event: 2 years
Storm Event: 24h

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	100.00 ft
Volume (Initial)	0.000 ac-ft
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	1.000 min

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	0.56 ft³/s	Time to Peak (Flow, In)	936.000 min
Flow (Peak Outlet)	0.08 ft³/s	Time to Peak (Flow, Outlet)	1,443.000 min

Elevation (Water Surface, Peak)	101.18 ft
Volume (Peak)	0.243 ac-ft

Mass Balance (ac-ft)	
Volume (Initial)	0.000 ac-ft
Volume (Total Inflow)	0.324 ac-ft
Volume (Total Infiltration)	0.000 ac-ft
Volume (Total Outlet Outflow)	0.219 ac-ft
Volume (Retained)	0.105 ac-ft
Volume (Unrouted)	0.000 ac-ft
Error (Mass Balance)	0.0 %

Subsection: Level Pool Pond Routing Summary
Label: PO-1 (IN)

Return Event: 100 years
Storm Event: 24h

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	100.00 ft
Volume (Initial)	0.000 ac-ft
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	1.000 min

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.58 ft³/s	Time to Peak (Flow, In)	936.000 min
Flow (Peak Outlet)	0.30 ft³/s	Time to Peak (Flow, Outlet)	1,442.000 min

Elevation (Water Surface, Peak)	103.09 ft
Volume (Peak)	0.746 ac-ft

Mass Balance (ac-ft)	
Volume (Initial)	0.000 ac-ft
Volume (Total Inflow)	1.044 ac-ft
Volume (Total Infiltration)	0.000 ac-ft
Volume (Total Outlet Outflow)	0.745 ac-ft
Volume (Retained)	0.299 ac-ft
Volume (Unrouted)	0.000 ac-ft
Error (Mass Balance)	0.0 %

Subsection: Pond Inflow Summary
Label: PO-1 (IN)

Return Event: 2 years
Storm Event: 24h

Summary for Hydrograph Addition at 'PO-1'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	CM-1

Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (min)	Flow (Peak) (ft^3/s)
Flow (From)	CM-1	0.324	936.000	0.56
Flow (In)	PO-1	0.324	936.000	0.56

Subsection: Pond Inflow Summary
Label: PO-1 (IN)

Return Event: 100 years
Storm Event: 24h

Summary for Hydrograph Addition at 'PO-1'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	CM-1

Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (min)	Flow (Peak) (ft^3/s)
Flow (From)	CM-1	1.044	936.000	1.58
Flow (In)	PO-1	1.044	936.000	1.58

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Robinson ENGINEERING

Municipal Expertise. Community Commitment.

Jacob C. Wellbank, P.E.
Direct Line: 815.412.2723
Email: jwellbank@reltd.com

July 28, 2017

Project 14-711

City of Plano
Attn: Mayor Robert Hausler
17 E. Main St
Plano, IL 60545

RE: FOLI PARK RECREATIONAL IMPROVEMENTS – VARIANCE STANDARDS

Dear Mr. Hausler:

To complete the application for a variation from the City of Plano Stormwater Management Ordinance, Title 6, Chapter 17, Section 3-1 of the Plano City Code and Kendall County Stormwater Ordinance Section 203.1, variance standards must be met as outlined in Title 6, Chapter 17, Section 6-5, Part B.1(a-f) of the Plano City Code (Kendall County Stormwater Ordinance Section 904.1, parts *a* through *f*). Please see below:

a. The variance will not increase the probability of flood damage or create an additional threat to the public health, safety, or welfare. The pond at Foli Park does not have a connection to Big Rock Creek. All stormwater tributary to Foli Park must either infiltrate or evaporate.
b. The requested variance will allow construction of the proposed recreational amenities and will not compromise any of the goals of the Kendall County Stormwater Management Ordinance.
c. A variance will not result in the reduction of water quality benefits as compared to compliance with ordinance requirements because naturalized areas surrounding the pond will be preserved.
d. The variance is requested to provide a recreational amenity to the residents of the City of Plano.
e. All stormwater runoff is tributary to the pond at Foli Park, and the pond is not tributary to offsite conveyance facilities.
f. The variance seeks to preserve the native trees, existing wetlands, and natural features at Foli Park. Without a variance, the aforementioned resources would be impacted due to excavation for stormwater detention, as outlined in Part J of the Application for Stormwater Variance.

Please don't hesitate to call me at (815) 412-2723 if you have any questions.

Very truly yours,

ROBINSON ENGINEERING, LTD.

Jacob Wellbank

Jacob C. Wellbank, PE
Project Engineer

R:\2010-2014\2014\14-383.PLO\14-383.01 Engineering\Permits Utilities\Foli Park Recreational Improvements - Variance Standards.docx

Matt Asselmeier

From: Jacob Wellbank [jwellbank@reltd.com]
Sent: Wednesday, August 23, 2017 5:05 PM
To: Greg Chismark
Cc: Matt Asselmeier; Bob Hausler
Subject: RE: Foli Park Oslad Grant Development Project

Hi Greg,

1. The total area of disturbance for the Foli Park Recreational Improvements Project is 1.99 acres.
2. The proposed new (additional) impervious area is 0.62 acres (27,000 sq. ft.). Yes – all the proposed new impervious area would be tributary to the pond.
3. The hydrograph routing analysis demonstrates how much detention would be necessary if the variance was not granted.
4. There's not a pipe that's known of or has been discovered that would create a connection between the pond and Big Rock Creek. We can provide the project topo if you'd like.
5. A stormwater analysis hasn't been completed to ascertain if the pond overtops into Big Rock Creek in the 100-year rainfall event. The only known events that the City is aware of are in 1996 and late 2000's when flow from Big Rock Creek caused the northern bank of the pond to fail, resulting in Big Rock Creek flowing into the pond.

Please let me know if you need any other information.

Thank you,

Jake

Jacob C. Wellbank, PE
Project Engineer

Robinson ENGINEERING

300 Park Blvd, Ste. 309
Itasca, IL 60143
(815) 412-2723 direct
(815) 250-5636 fax
jwellbank@reltd.com
WWW.RELTD.COM

From: Greg Chismark [mailto:gchismark@wbkengineering.com]
Sent: Tuesday, August 22, 2017 11:57 AM
To: Jacob Wellbank <jwellbank@reltd.com>
Cc: Matt Asselmeier (masselmeier@co.kendall.il.us) <masselmeier@co.kendall.il.us>
Subject: RE: Foli Park Oslad Grant Development Project

Jacob,
I am reviewing the City of Plano's request for a variance for Foli Park and have a few quick questions. In general there appears to be adequate support and justification for the variance but I would like to be clear on a few items.

August 24, 2017

Mr. Matt Asselmeier
Kendall County Planning, Building & Zoning
111 West Fox Street
Yorkville, IL 60560-1498

Subject: Foli Park Development – Plano Stormwater Variance
Kendall County (WBK Project No. 16-0100.N)

Dear Mr. Asselmeier:

WBK Engineering LLC (WBK) has reviewed the documents submitted relative to the Foli Pak Project and requested Stormwater Variance. WBK received the following information:

- Application for Stormwater Variance prepared by City of Plano, not dated, received July 31, 2017 via e-mail.
- E-Mail response for additional project information prepared by Robinson Engineering, Ltd., dated and received August 23, 2017.

We find the variance request to be reasonable and recommend County approval of the same. We find this project and site conditions to be unique and offer the following additional justification and emphasis to support our recommendation.

1. This is a public use project. The project is planned, funded and facilitated as a public park by the City of Plano.
2. The entire project is tributary to an existing pond and not directly to a watercourse or adjacent property. The existing pond has no outlet. All runoff will be attenuated in the existing pond prior to any discharge as a result of overtopping.
3. The proposed project will incorporate native plantings with interpretive signage.
4. Disturbance of the pond to provide the required storage will impact existing vegetation and trees within the park.

WBK Engineering, LLC
WBKEngineering.com
Part of the Mno-Bmadsen Family

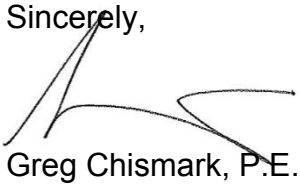
St. Charles Office
116 West Main Street, Suite 201
St. Charles, IL 60174
630.443.7755

Aurora Office
8 East Galena Boulevard, Suite 402
Aurora, IL 60506
630.701.2245

The applicant's design professionals are responsible for performing and checking all design computations, dimensions, details, and specifications in accordance with all applicable codes and regulations, and obtaining all permits necessary to complete this work. In no way does this review relieve applicant's design professionals of their duties to comply with the law and any applicable codes and regulations, nor does it relieve the Contractors in any way from their sole responsibility for the quality and workmanship of the work and for strict compliance with the permitted plans and specifications.

If you have any questions or comments, please contact us at (630) 443-7755.

Sincerely,



Greg Chismark, P.E.
Municipal Practice Principal
WBK Engineering LLC

Cc:

State of Illinois
County of Kendall

Petition 17-24

ORDINANCE NUMBER 2017 - _____

GRANTING A VARIANCE TO THE KEDALL COUNTY STORMWATER MANAGEMENT ORDINANCE FOR THE PROPERTY IDENTIFIED BY PARCEL IDENTIFICATION NUMBER 01-27-276-002 LOCATED IN THE IN THE 800 BLOCK OF SOUTH HALE STREET, LITTLE ROCK TOWNSHIP, CITY OF PLANO AND OWNED BY THE CITY OF PLANO AND MORE COMMONLY KNOWN AS FOLI PARK

WHEREAS, the City of Plano has submitted an application for a variance to Section 203.1 of the Kendall County Stormwater Management Ordinance regarding applicability of site runoff storage requirements; and

WHEREAS, the property impacted by the variance is identified by parcel identification number 01-27-276-002 and is located in the 800 block of South Hale Street inside the City of Plano; and

WHEREAS, the property is owned by the City of Plano and is also known as Foli Park; and

WHEREAS, the petitioner desires to create a multi-use path, pavilion and other Americans with Disabilities Act compliant amenities that will create an additional approximately 0.62 acres of impervious surface for a total of 1.26 acres of impervious area at the site; and

WHEREAS, the proposed development is for public use and the development of the park is planned, funded and facilitated as a public park by the City of Plano; and

WHEREAS, the entire project is tributary to an existing pond and not directly to a watercourse or adjacent pond; and

WHEREAS, the existing pond has no outlet and all runoff will be attenuated in the existing pond prior to any discharge as a result of overtopping; and

WHEREAS, the proposed project will incorporate native plantings with interpretive signage; and

WHEREAS, disturbance of the pond to provide the required storage will impact existing vegetation and trees; and

WHEREAS, the City of Plano held a public hearing before the Plano Streets Committee on June 26, 2017 for a variance to the City of Plano's Stormwater Management Ordinance for this project and no comments in favor or in opposition to the proposal were received; and

WHEREAS, the City Council of the City of Plano approved a variance to the City of Plano's Stormwater Management Ordinance through Ordinance 2017-34 adopted July 25, 2017; and

WHEREAS, all variance procedures required by the Kendall County Stormwater Management Ordinance were followed including a public hearing by the County's Stormwater Management Oversight Committee on September 5, 2017; and

State of Illinois
County of Kendall

Petition 17-24

WHEREAS, the County's Oversight Committee has determined the variance requests meet following standards:

The variance will not increase the probability of flood damage or create an additional threat to the public health, safety or welfare.

The variance requested is the minimum relief necessary to accomplish the objectives of the development without compromising the objectives of Section 102 of the Kendall County Stormwater Management Ordinance.

The variance will not result in a reduction of water quality benefits as compared to compliance with ordinance requirements.

The variance is not requested solely for the purpose of reducing site runoff storage requirements.

The variance shall not cause conveyance of stormwater from the project to increase peak discharges beyond design capacity of existing offsite conveyance facilities for any storm event from the 2-year to the 100-year recurrence frequency.

The variance shall seek to preserve valuable environmental and biological resources including but not limited to stands of native trees, existing wetlands and natural floodplain storage.

WHEREAS, the County's Oversight Committee has determined the variance requests identified herein to be acceptable under the following condition:

1. The City of Plano shall procure all necessary local, State and Federal permits and satisfy all permit conditions; and

WHEREAS, the Kendall County Board has considered the standards and finds that said petition is in conformance with the provisions and intent of the Kendall County Zoning Ordinance.

NOW, THEREFORE, BE IT ORDAINED, that the Kendall County Board hereby grants approval, subject to the conditions noted herein, of a variance to Section 203.1 of the Kendall County Stormwater Management Ordinance regarding applicability of site runoff storage requirements and the site plan included as "Exhibit A" attached hereto and incorporated herein.

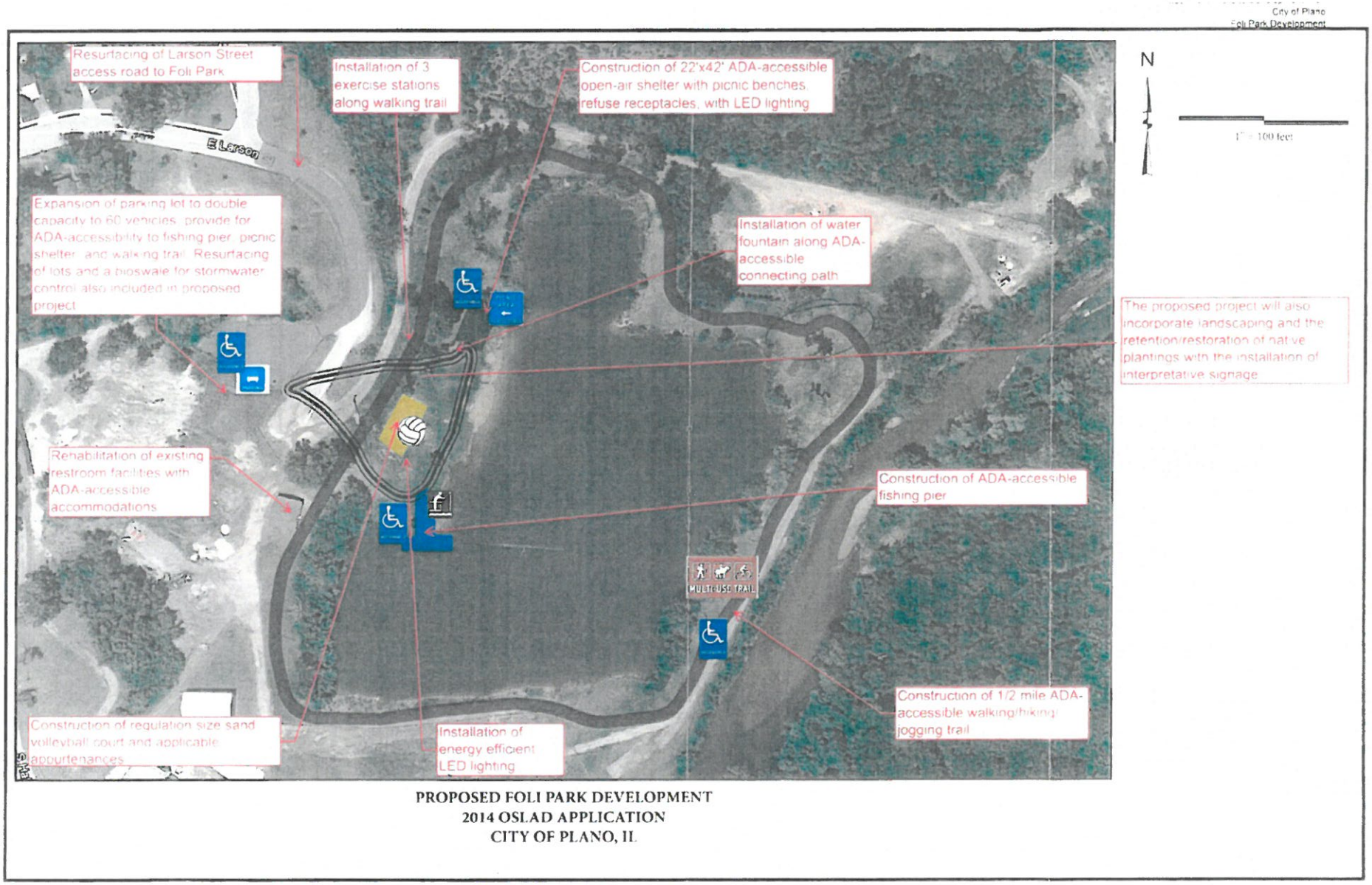
IN WITNESS OF, this Ordinance has been enacted by the Kendall County Board this 19th day of September, 2017.

Attest:

_____ _____

Debbie Gillette
Kendall County Clerk

Scott R. Gryder
Kendall County Board Chairman



PROPOSED FOLI PARK DEVELOPMENT
2014 OSLAD APPLICATION
CITY OF PLANO, IL