

ILLINOIS STATE GEOLOGICAL SURVEY

Irrigation Well	Top	Bottom
lay	0	70
fine sand & gravel	70	80
limestone	80	235
Total Depth		235
Casing: 6" STEEL A53 BLACK from -1' to 81'		
Grout: BENTONITE from 0 to 80.		
Water from limestone at 80' to 235'.		
Static level 80' below casing top which is 1' above GL		
Pumping level 85' when pumping at 50 gpm for 2 hours		
Additional Lot: 1 Subdivision: Ifkovits Ass't Plat		
location info:		
Address of well: same as above		
Location source: Location from permit		
Permit Date: October 27, 1997		
Permit #:		

COMPANY Kerry, Charles M.
FARM We Go Greenhouse
DATE DRILLED November 6, 1997 **NO.**
ELEVATION 0 **COUNTY NO.** 30638
LOCATION NE SE NE
LATITUDE 41.880715 **LONGITUDE** -88.225168
COUNTY DuPage **API** 120433063800

8 - 39N - 9E

Page 1 ILLINOIS STATE GEOLOGICAL SURVEY

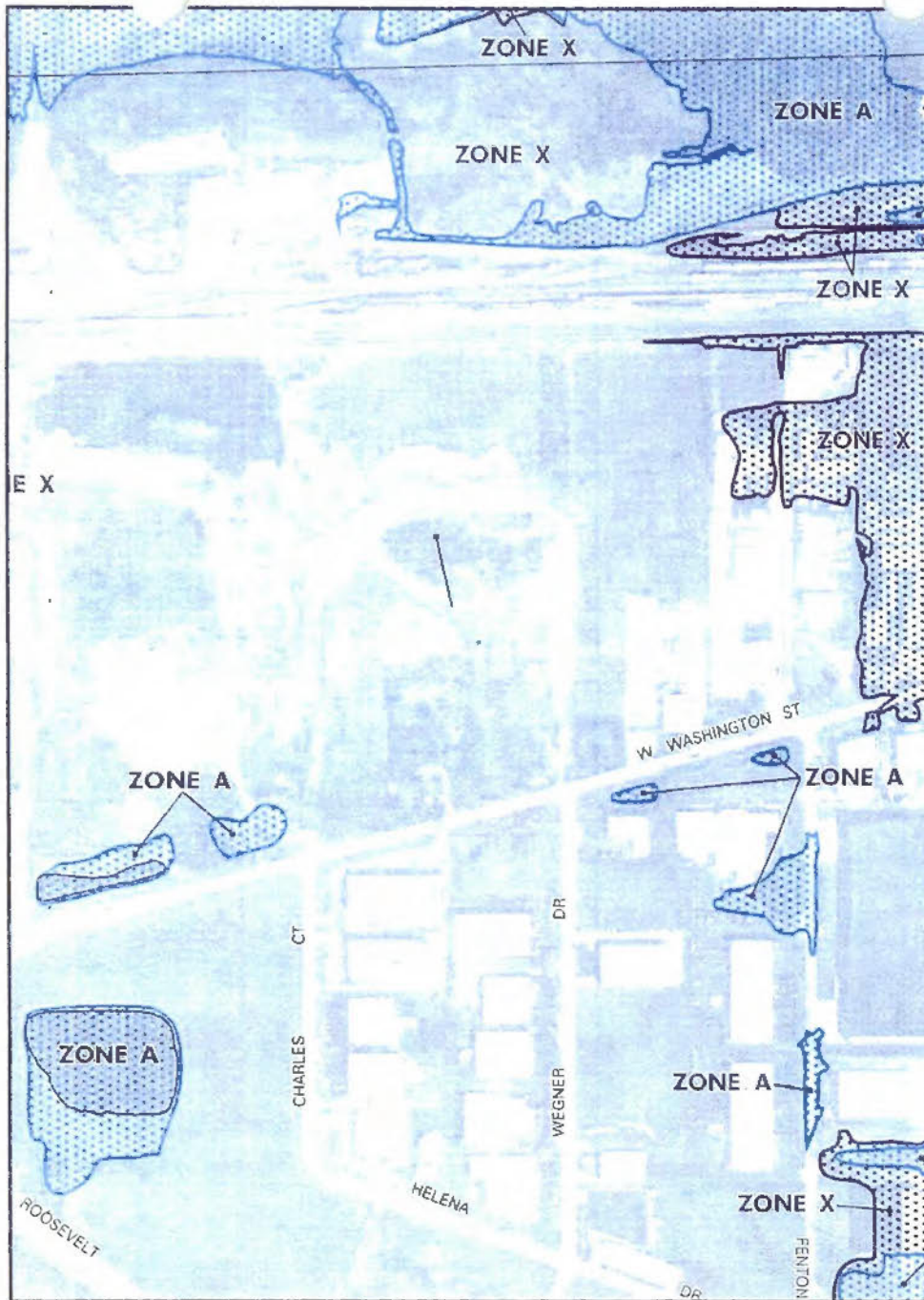
Private Water Well	Top	Bottom
op soil	0	3
clay	3	10
sand gravel	10	35
clay	35	60
sand gravel	60	80
clay	80	95
sand gravel	95	125
rock	125	129
rock	129	135
Total Depth		135
Casing: 5" BLACK 200# from 0' to 129'		
Grout: CUTTINGS from 0 to 129.		
Size hole below casing: 4.75"		
Water from rock at 129' to 135'.		
Static level 50' below casing top which is 1' above GL		
Pumping level 65' when pumping at 14 gpm for 3 hours		
Permanent pump installed at 80' on December 1, 1987, with a capacity of 14 gpm		
Additional Lot: #9 Subdivision: Friends location info:		
Address of well: 28 W. 625 Berkshire Rd. W. Chicago		
Location source: Location from permit		
Permit Date: October 22, 1987		Permit #: 138509

COMPANY Knierim, Phil
 FARM Elliot Concrete
 DATE DRILLED December 1, 1987 NO.
 ELEVATION 0 COUNTY NO. 27991
 LOCATION NW
 LATITUDE 41.88171 LONGITUDE -89.219119
 COUNTY DuPage API 120432799100

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4

ATTACHMENT 4: FLOOD INSURANCE RATE MAP



JOINS

ZONE AE
(EL 757)

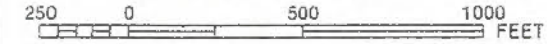
4637000 M

ZONE AE
(EL 749)

National Flood Insurance Program at 1-800-638-6023.



MAP SCALE 1" = 500'



NFIP PANEL 0401H

FIRM
FLOOD INSURANCE RATE MAP
DuPAGE COUNTY,
ILLINOIS
AND INCORPORATED AREAS

PANEL 0401 OF 1006

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS

COMMUNITY	NUMBER	PANEL	SUFFIX
DuPAGE COUNTY	17043	0401	H
WEST CHICAGO CITY OF	17029	0401	H

Notice to User: The Map Number shown below should be used when placing map orders. The Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER
17043C0401H

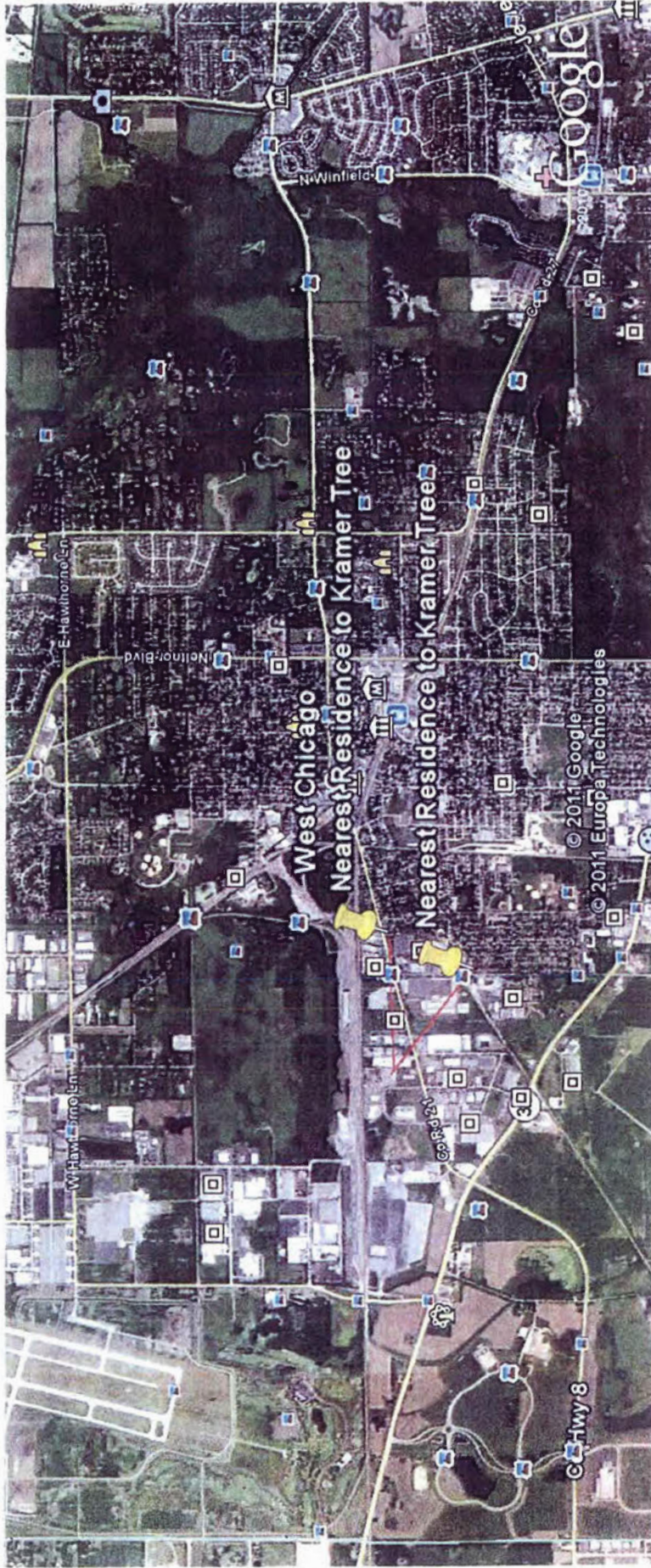
EFFECTIVE DATE
DECEMBER 16, 2004

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

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ATTACHMENT 5: AERIAL MAP OF CLOSEST RESIDENCE



West Chicago Illinois

IMAGE DATE 6/30/2010
SCALE 1" = 4,000 FT.

6

ATTACHMENT 6: ORDINANCE NO. 06-O-0102

Special Use Permit - OUTSIDE STORAGE
FROM CITY OF WEST CHICAGO
ORDINANCE NO. 06-O-0102

**AN ORDINANCE GRANTING SPECIAL USES
TO CONSTRUCT AN OUTSIDE STORAGE YARD AND
TO LANDBANK REQUIRED OFF-STREET PARKING
300 CHARLES COURT - KRAMER TREE SPECIALISTS**

WHEREAS, on or about November 9, 2006, Joe Kramer of Kramer Tree Specialists, (the "APPLICANT"), filed an application for special use permits to construct an outside storage yard and to landbank nine (9) required off-street parking spaces, with respect to the property legally described on Exhibit "A" attached hereto and incorporated herein (the "SUBJECT REALTY"); and,

WHEREAS, Notice of Public Hearing on said application was published in the Daily Herald on or about November 20, 2006, all as required by the ordinances of the City of West Chicago and the statutes of the State of Illinois; and,

WHEREAS, a Public Hearing was conducted by the Plan Commission/Zoning Board of Appeals of the City of West Chicago, commencing on December 5, 2006, pursuant to said Notice; and,

WHEREAS, at the Public Hearing, the APPLICANT provided testimony in support of its application, and all interested parties had an opportunity to be heard; and,

WHEREAS, the corporate authorities of the City of West Chicago have received the recommendation of the Plan Commission/Zoning Board of Appeals which contains specific findings of fact, pursuant to Recommendation No. 1053, a copy of which is attached hereto as Exhibit "B" which is, by this reference, incorporated herein.

NOW, THEREFORE, BE IT ORDAINED by the City Council of the City of West Chicago, Du Page County, Illinois, in regular session assembled, as follows:

Section 1. That a special use permit in conformance with Section 5.5, Section 11.2-4 (T) of the Zoning Ordinance is hereby granted for the SUBJECT REALTY, to construct an outside storage yard for the processing and storage of mulch and landscape waste materials.

Section 2. That a special use permit in conformance with Sections 5.5 and 13.3(B) of the Zoning Ordinance is hereby granted for the SUBJECT REALTY, to landbank nine (9) required off-street parking spaces.

Section 3. That the special use permits are hereby granted subject to compliance with the following conditions:

1. The site shall be developed in conformance with the Site Plan A1.0 prepared by Triad Construction Services, consisting of one sheet, dated July 25, 2006, and having a final revision date of _____, attached hereto and incorporated herein as Exhibit "C".
2. The landscaping shall be installed in conformance with the Landscape Plans L1.0 through L1.3 prepared by Planning Resources, Inc., consisting of one sheet each, dated _____, attached hereto and incorporated herein as Exhibit "C".
3. The applicant shall install the nine (9) landbanked parking spaces in conformance with the Site Plan A1.0 prepared by Triad Construction Services, dated July 25, 2006, and having a final revision date of _____, and attached hereto and incorporated herein as Exhibit "C". The landbanked parking spaces shall be installed if the City, at any time, determines that there is inadequate parking provided on the subject property.
4. The applicant shall submit engineering plans addressing the parking lot expansion design and storm water management needs in accordance with current City standards prior to the parking lot expansion installation.
5. The applicant shall be permitted to develop the overall site in multiple phases with the restriction that no unpaved or undeveloped portion of the site be utilized for any business operations until that portion of the site is improved according the approved site development plans.
6. The applicant shall be permitted to install evergreen trees less than the minimum height of six (6') feet along the perimeter of the storage yard fence with the condition that said trees obtain the required 100% screening requirement within five (5) years of the issuance of the initial occupancy permit for the subject property. Any trees that do not comply with the screening requirement at the five (5) year deadline shall be replaced, additional landscaping shall be added, or other screening measures, as approved by the City, shall be utilized in order to obtain the required screening.
7. The storage or parking of any non-business related equipment, vehicles, or materials shall be prohibited at all times on the subject property.
8. At no time shall the height of any business related materials stored on the subject property exceed twenty-five (25) feet in height.

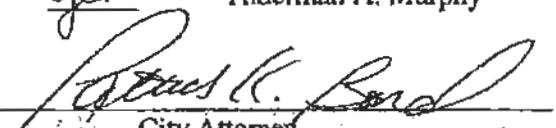
Section 3. That all ordinances and resolutions, or parts thereof, in conflict with the provisions of this Ordinance are, to the extent of such conflict, hereby repealed.

Section 4. That this Ordinance shall be in full force and effect from and after its passage, approval and publication in pamphlet form as provided by law.


PASSED this 18th day of December 2006.

Alderman L. Chassee	<u>Yes</u>	Alderman J. Beifuss	<u>Absent</u>
Alderman H.R. Monroe	<u>Yes</u>	Alderman G. Kauth	<u>Yes</u>
Alderman R. Radkiewicz	<u>Absent</u>	Alderman R. Pineda	<u>Yes</u>
Alderman S. Dimas	<u>Yes</u>	Alderman G. Bunch	<u>Yes</u>
Alderman M. Kwasman	<u>Yes</u>	Alderman N. Connelly	<u>Yes</u>
Alderman R. Stout	<u>Yes</u>	Alderman N. Dzierzanowski	<u>Yes</u>
Alderman M. Fuesting	<u>Yes</u>	Alderman A. Murphy	<u>Yes</u>

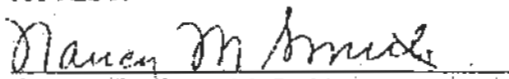
APPROVED as to form:


 City Attorney

APPROVED this 18th day of December 2006.


 Acting Mayor, Michael B. Kwasman

ATTEST:


 City Clerk, Nancy M. Smith

PUBLISHED: _____

EXHIBIT "A"

LEGAL DESCRIPTION FOR ORDINANCE NO. 06-O-0102

Lot 2 of North Industrial Park Second Resubdivision, being a Resubdivision of Lot 2 in North Industrial Park, in the Northeast Quarter of Section 8, Township 39 North, Range 9 East of the Third Principal Meridian, according to the plat recorded September 19, 2005, as Document R2005-206729, in DuPage County, Illinois.

P.I.N. 04-08-201-027.

EXHIBIT "B"

**RECOMMENDATION #1070
ORDINANCE 06-O-0102**

TO: The Honorable Mayor and City Council

SUBJECT: PC 06-50: Special Uses for an outside storage yard and to landbank nine (9) required off-street parking spaces
300 Charles Court – Kramer Tree Specialists

DATE: December 6, 2006

DECISION: The motion to approve the requests passed (4-0) with staff's recommendation # 7 from the staff report PC 06-50 amended to read as follows: "At no time shall the height of any business related materials stored on the subject property exceed twenty-five (25) feet in height".

RECOMMENDATION

After review of the requested special uses, the Plan Commission/Zoning Board of Appeals (PC/ZBA) recommended approval according to the following findings of fact:

- (1) Are necessary for the public convenience at that location or, the case of existing nonconforming uses, a special use permit will make the use more compatible with its surroundings:*

(This standard should be interpreted as indicating whether or not the proposed use is good for the public at that particular physical location, and not whether or not the use itself is *needed* there).

The proposed special uses are designed to facilitate the relocation of a legal non-conforming industrially based use from a residential area to a more suitable industrial area of the City.

- (2) Is so designed, located and proposed to be operated that the public health, safety and welfare will be protected:*

The proposed use of the outside storage yard in conjunction with the contractor's office operations is designed to protect the public's health, safety and welfare by relocating a use currently operating in a residential area to an industrial area that is better suited for this type of business operations and landbanking of the nine (9) parking spaces is designed to improve the aesthetics of the site by limiting the amount of hard surface on-site until such time that it is deemed necessary.

(3) Will not cause substantial injury to the value of other property in the neighborhood in which it is located:

The proposed use should not have a negative impact on the surrounding neighborhood in which it is located given that the site is located within an existing industrial park and surrounded by similar industrial uses.

(4) The proposed special use is designated by this code as a listed special use in the zoning district in which the property in question is located:

The proposed outdoor storage yard and landbanking of required off-street parking spaces are indeed listed as a special uses, per the M, Manufacturing District regulations established in Section 11.2-4 (T) and the off-street parking regulations established in Section 13.3 (B) of the Zoning Code.

Respectfully submitted,

John Warbaniy
Chairman

VOTE:

For	Against	Abstain	Absent
J. Warbaniy			V. Barber
J. Banas			S. Jarolin
B. Lemon			
J. Hale			

EXHIBIT "C"

ORDINANCE 06-O-0102

Insert Site Plan A1.0 and Landscape Plans L1.0, L1.1, L1.2, L1.3 here

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May 2011

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2011-003

**ATTACHMENT 7 - ILLINOIS DEPARTMENT OF NATURAL RESOURCES
DETERMINATION LETTER**

EcoCAT REPORT



Illinois Department of Natural Resources

One Natural Resources Way Springfield, Illinois 62702-1271
<http://dnr.state.il.us>

Pat Quinn, Governor
Marc Miller, Director

May 05, 2011

John Lardner
JPL Environmental Engineering
1122 North Clark Street
#3803
Chicago, IL 60610 7899

Re: Kraner Tree Specialists LMPF
Project Number(s): 1112268 [2011-003]
County: DuPage

Dear Applicant:

This letter is in reference to the project you recently submitted for consultation. The natural resource review provided by EcoCAT identified protected resources that may be in the vicinity of the proposed action. The Department has evaluated this information and concluded that adverse effects are unlikely. Therefore, consultation under 17 Ill. Adm. Code Part 1075 is terminated.

This consultation is valid for two years unless new information becomes available that was not previously considered; the proposed action is modified; or additional species, essential habitat, or Natural Areas are identified in the vicinity. If the project has not been implemented within two years of the date of this letter, or any of the above listed conditions develop, a new consultation is necessary.

The natural resource review reflects the information existing in the Illinois Natural Heritage Database at the time of the project submittal, and should not be regarded as a final statement on the site being considered, nor should it be a substitute for detailed site surveys or field surveys required for environmental assessments. If additional protected resources are encountered during the project's implementation, you must comply with the applicable statutes and regulations. Also, note that termination does not imply IDNR's authorization or endorsement of the proposed action.

Please contact me if you have questions regarding this review.

Tracy Evans
Division of Ecosystems and Environment
217-785-5500



Applicant: JPL Environmental Engineering
Contact: John Lardner
Address: 1122 North Clark Street
#3803
Chicago, IL 60610

IDNR Project #: 1112268
Alternate #: 2011-003
Date: 05/04/2011

Project: Kraner Tree Specialists LMPF
Address: 300 Charles Court, West Chicago

Description: Leaf mulch production at existing landscape equipment yard

Natural Resource Review Results

Consultation for Endangered Species Protection and Natural Areas Preservation (Part 1075)

The Illinois Natural Heritage Database shows the following protected resources may be in the vicinity of the project location:

- West Chicago Prairie INAI Site
- Truitt-Hoff Nature Preserve
- Blanding's Turtle (*Emydoidea blandingii*)
- Tube Beard Tongue (*Penstemon tubaefflorus*)

An IDNR staff member will evaluate this information and contact you within 30 days to request additional information or to terminate consultation if adverse effects are unlikely.

Location

The applicant is responsible for the accuracy of the location submitted for the project.

County: DuPage
Township, Range, Section:
39N, 9E, 9



IL Department of Natural Resources Contact
Tracy Evans
217-785-5500
Division of Ecosystems & Environment

Local or State Government Jurisdiction
IL Environmental Protection Agency
Permit Section
Illinois EPA
1021 North Grand Avenue
Springfield, Illinois 62794-9276

IDNR Project Number: 1112268

Disclaimer

The Illinois Natural Heritage Database cannot provide a conclusive statement on the presence, absence, or condition of natural resources in Illinois. This review reflects the information existing in the Database at the time of this inquiry, and should not be regarded as a final statement on the site being considered, nor should it be a substitute for detailed site surveys or field surveys required for environmental assessments. If additional protected resources are encountered during the project's implementation, compliance with applicable statutes and regulations is required.

Terms of Use

By using this website, you acknowledge that you have read and agree to these terms. These terms may be revised by IDNR as necessary. If you continue to use the EcoCAT application after we post changes to these terms, it will mean that you accept such changes. If at any time you do not accept the Terms of Use, you may not continue to use the website.

1. The IDNR EcoCAT website was developed so that units of local government, state agencies and the public could request information or begin natural resource consultations on-line for the Illinois Endangered Species Protection Act, Illinois Natural Areas Preservation Act, and Illinois Interagency Wetland Policy Act. EcoCAT uses databases, Geographic Information System mapping, and a set of programmed decision rules to determine if proposed actions are in the vicinity of protected natural resources. By indicating your agreement to the Terms of Use for this application, you warrant that you will not use this web site for any other purpose.
2. Unauthorized attempts to upload, download, or change information on this website are strictly prohibited and may be punishable under the Computer Fraud and Abuse Act of 1986 and/or the National Information Infrastructure Protection Act.
3. IDNR reserves the right to enhance, modify, alter, or suspend the website at any time without notice, or to terminate or restrict access.

Security

EcoCAT operates on a state of Illinois computer system. We may use software to monitor traffic and to identify unauthorized attempts to upload, download, or change information, to cause harm or otherwise to damage this site. Unauthorized attempts to upload, download, or change information on this server is strictly prohibited by law. Unauthorized use, tampering with or modification of this system, including supporting hardware or software, may subject the violator to criminal and civil penalties. In the event of unauthorized intrusion, all relevant information regarding possible violation of law may be provided to law enforcement officials.

Privacy

EcoCAT generates a public record subject to disclosure under the Freedom of Information Act. Otherwise, IDNR uses the information submitted to EcoCAT solely for internal tracking purposes.



Applicant: JPL Environmental Engineering
Contact: John Lardner
Address: 1122 North Clark Street
#3803
Chicago, IL 60610

IDNR Project #: 1112268
Alternate #: 2011-003
Date: 05/04/2011

Project: Kraner Tree Specialists LMPF
Address: 300 Charles Court, West Chicago

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Township, Range, Section:
39N, 9E, 9



IL Department of Natural Resources Contact
Tracy Evans
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ATTACHMENT 8: STORM WATER CALCULATIONS
PETER F. OLESEN AND ASSOCIATES
SPACECO

PETER F. OLESEN AND ASSOCIATES, INC.

CONSULTING ENGINEERS

May 21, 2009

Ms. Joanne Kalchbrenner
Community Development Director
City of West Chicago

West Chicago, IL

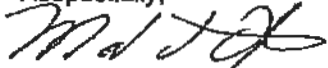
Re: Kramer Tree Services

Dear Ms. Kalchbrenner,

As requested by Pavia Marting during their review of the as-built survey that was submitted for the Kramer Tree project, we have performed an analysis of the ability of the as constructed storm sewer to convey a 10-year storm. Based on this analysis, the storm sewer system is capable of conveying the 10-year storm. Output of the Storm Cad analysis is attached.

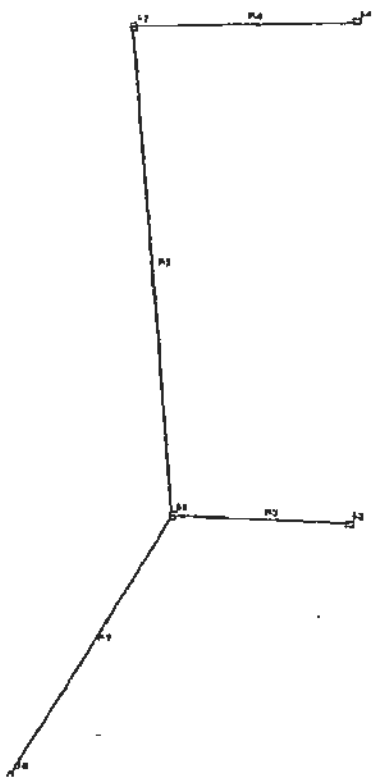
If you should have any questions or comments, please contact me at (847) 253-1515.

Respectfully,



Mark S. Olesen, P.E.
Executive Vice President



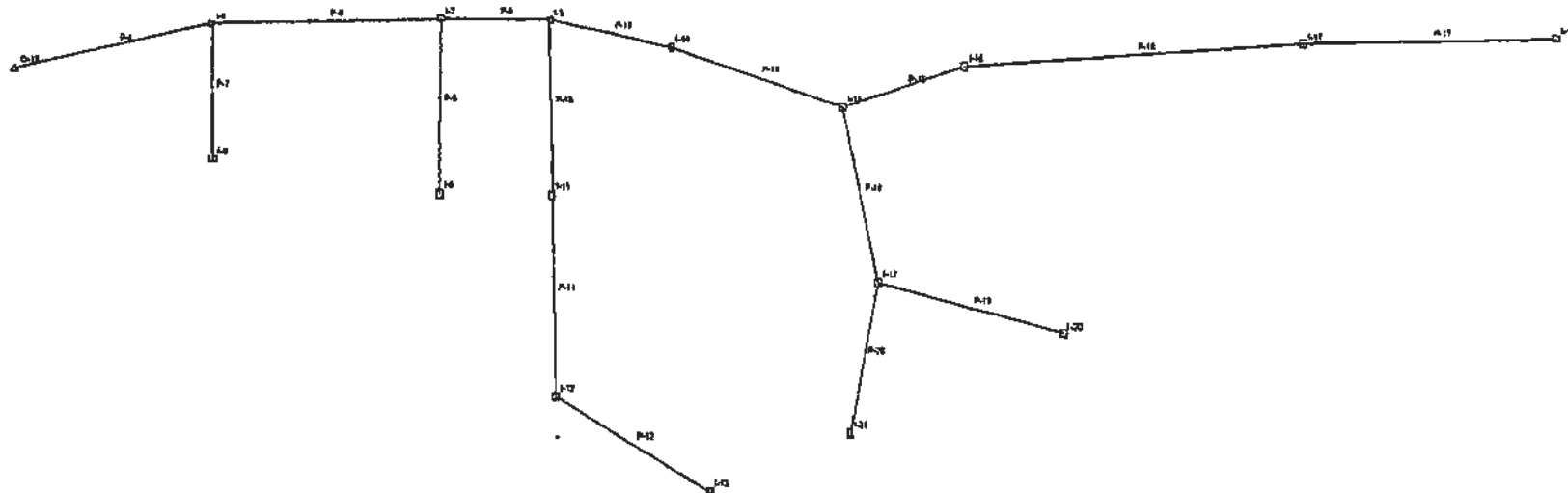


Pipe Report

Pipe	Upstream Node	Downstream Node	Inlet Area (acres)	Inlet C Coefficient	Inlet CA (acres)	Total CA (acres)	System Intensity (in/hr)	Discharge (cfs)	Length (ft)	Constructed Slope (ft/ft)	Section Size	Roughness	Capacity (cfs)	Upstream Invert Elevation (ft)	Downstream Invert Elevation (ft)
P-4	I-4	I-3	1.23	0.94	1.16	1.16	6.84	7.98	145.00	0.005310	18 inch	0.013	7.65	749.76	748.99
P-2	I-2	I-1	1.42	0.91	1.29	1.29	6.86	8.89	114.00	0.001491	21 inch	0.013	6.12	748.31	748.14
P-3	I-3	I-1	1.00	0.98	0.98	2.14	6.78	14.81	320.00	0.001312	24 inch	0.013	8.20	748.99	748.57
P-1	I-1	O-0	0.94	0.95	0.89	4.32	6.66	29.00	198.00	0.004495	30 inch	0.013	27.50	747.45	748.58

Node Report

Node	Inlet Area (acres)	Inlet C Coefficient	Inlet CA (acres)	External CA (acres)	Total CA (acres)	Inlet TC (min)	External TC (min)	Upstream Flow Time (min)	System Flow Time (min)	System Intensity (in/hr)	Total Watershed (CIA) (cfs)	Additional Flow (cfs)	Carryover (cfs)	Known Flow (cfs)	Total Upstream Added (cfs)	Discharge (cfs)
I-4	1.23	0.94	1.16	0.00	1.16	1.98	0.00	0.00	1.98	6.84	7.98	0.00	0.00	0.00	0.00	7.98
I-2	1.42	0.91	1.29	0.00	1.29	1.84	0.00	0.00	1.84	6.86	8.89	0.00	0.00	0.00	0.00	8.89
I-3	1.00	0.98	0.98	0.00	2.14	1.98	0.00	2.51	2.51	6.78	14.61	0.00	0.00	0.00	0.00	14.61
I-1	0.94	0.95	0.89	0.00	4.32	1.87	0.00	3.49	3.49	6.66	29.00	0.00	0.00	0.00	0.00	29.00
O-0	N/A	N/A	N/A	N/A	4.32	N/A	0.00	3.96	3.96	6.60	28.75	N/A	N/A	N/A	0.00	N/A



Pipe Report

Pipe	Upstream Node	Downstream Node	Inlet Area (acres)	Inlet C Coefficient	Inlet CA (acres)	Total CA (acres)	System Intensity (In/hr)	Discharge (cfs)	Length (ft)	Constructed Slope (ft/ft)	Section Size	Roughness	Capacity (cfs)	Upstream Invert Elevation (ft)	Downstream Invert Elevation (ft)
P-17	I-18	I-17	0.52	0.83	0.43	0.43	6.94	3.03	154.00	0.002208	18 inch	0.013	4.94	751.59	751.25
P-16	I-17	I-16	0.44	0.80	0.38	0.83	6.76	5.64	212.00	0.001274	18 inch	0.013	3.75	751.25	750.98
P-19	I-20	I-19	0.86	0.89	0.76	0.76	6.90	5.31	118.00	0.000424	18 inch	0.013	2.16	751.10	751.05
P-20	I-21	I-19	0.22	0.69	0.15	0.15	6.98	1.07	92.00	0.000435	12 inch	0.013	0.83	751.16	751.12
P-12	I-13	I-12	0.31	0.81	0.25	0.25	6.96	1.76	112.00	0.003214	12 inch	0.013	2.25	751.80	751.44
P-15	I-16	I-15	0.68	0.88	0.52	1.34	6.63	8.97	82.00	0.006951	24 inch	0.012	20.43	751.05	750.48
P-18	I-19	I-15	0.27	0.94	0.25	1.17	6.82	8.03	110.00	0.000727	24 inch	0.013	6.10	750.82	750.74
P-11	I-12	I-11	0.19	0.70	0.13	0.38	6.86	2.65	103.00	0.001846	12 inch	0.013	1.71	751.54	751.35
P-14	I-15	I-14	0.25	0.87	0.22	2.73	6.57	18.10	111.00	0.000360	29x45 inc	0.013	13.99	750.88	750.84
P-10	I-11	I-5	0.49	0.94	0.46	0.84	6.79	5.77	129.00	0.003411	18 inch	0.013	6.13	751.35	750.91
P-13	I-14	I-5	0.62	0.88	0.54	3.28	6.51	21.49	77.00	0.000909	29x45 inc	0.013	22.22	750.91	750.84
P-9	I-5	I-7	0.00	0.00	0.00	4.12	6.48	26.89	66.00	0.001061	38x60 inc	0.013	50.28	750.38	750.31
P-5	I-8	I-7	0.17	0.88	0.17	0.17	6.86	1.15	106.00	0.006509	12 inch	0.013	3.20	751.00	750.31
P-6	I-7	I-8	0.18	0.88	0.16	4.44	6.44	28.83	141.00	0.001064	38x60 inc	0.013	50.36	750.31	750.16
P-7	I-9	I-8	0.32	0.98	0.31	0.31	6.88	2.18	83.00	0.010120	12 inch	0.013	4.00	751.00	750.16
P-8	I-8	O-10	0.23	0.89	0.20	4.96	6.37	31.85	122.00	0.001311	38x60 inc	0.013	55.91	750.16	750.00

Node Report

Node	Inlet Area (acres)	Inlet C Coefficient	Inlet CA (acres)	External CA (acres)	Total CA (acres)	Inlet TC (min)	External TC (min)	Upstream Flow Time (min)	System Flow Time (min)	System Intensity (in/hr)	Total Watershed (CIA) (cfs)	Additional Flow (cfs)	Carryover (cfs)	Known Flow (cfs)	Total Upstream Added (cfs)	Discharge (cfs)
I-18	0.52	0.83	0.43	0.00	0.43	1.19	0.00	0.00	1.19	6.94	3.03	0.00	0.00	0.00	0.00	3.03
I-17	0.44	0.90	0.39	0.00	0.63	1.54	0.00	2.68	2.68	6.76	5.64	0.00	0.00	0.00	0.00	5.64
I-20	0.86	0.89	0.76	0.00	0.76	1.54	0.00	0.00	1.54	6.90	5.31	0.00	0.00	0.00	0.00	5.31
I-21	0.22	0.69	0.15	0.00	0.15	0.80	0.00	0.00	0.80	6.98	1.07	0.00	0.00	0.00	0.00	1.07
I-13	0.31	0.81	0.25	0.00	0.25	0.96	0.00	0.00	0.96	6.86	1.76	0.00	0.00	0.00	0.00	1.76
I-18	0.58	0.89	0.52	0.00	1.34	1.17	0.00	3.79	3.79	6.83	8.97	0.00	0.00	0.00	0.00	8.97
I-19	0.27	0.94	0.25	0.00	1.17	1.33	0.00	2.20	2.20	6.82	8.03	0.00	0.00	0.00	0.00	8.03
I-12	0.19	0.70	0.13	0.00	0.38	1.39	0.00	1.86	1.86	6.86	2.65	0.00	0.00	0.00	0.00	2.65
I-15	0.25	0.87	0.22	0.00	2.73	1.17	0.00	4.22	4.22	6.57	18.10	0.00	0.00	0.00	0.00	18.10
I-11	0.49	0.94	0.46	0.00	0.84	2.13	0.00	2.41	2.41	6.79	5.77	0.00	0.00	0.00	0.00	5.77
I-14	0.62	0.88	0.54	0.00	3.28	1.48	0.00	4.76	4.76	6.51	21.49	0.00	0.00	0.00	0.00	21.49
I-5	0.00	0.00	0.00	0.00	4.12	0.00	0.00	5.03	5.03	6.48	26.89	0.00	0.00	0.00	0.00	26.89
I-6	0.17	0.98	0.17	0.00	0.17	1.80	0.00	0.00	1.80	6.86	1.15	0.00	0.00	0.00	0.00	1.15
I-7	0.18	0.86	0.16	0.00	4.44	0.67	0.00	5.32	5.32	6.44	28.83	0.00	0.00	0.00	0.00	28.83
I-9	0.32	0.98	0.31	0.00	0.31	1.66	0.00	0.00	1.66	6.88	2.18	0.00	0.00	0.00	0.00	2.18
I-8	0.23	0.89	0.20	0.00	4.86	1.12	0.00	5.89	5.89	6.37	31.85	0.00	0.00	0.00	0.00	31.85
O-10	N/A	N/A	N/A	N/A	4.96	N/A	0.00	6.28	6.28	6.33	31.61	N/A	N/A	N/A	0.00	N/A

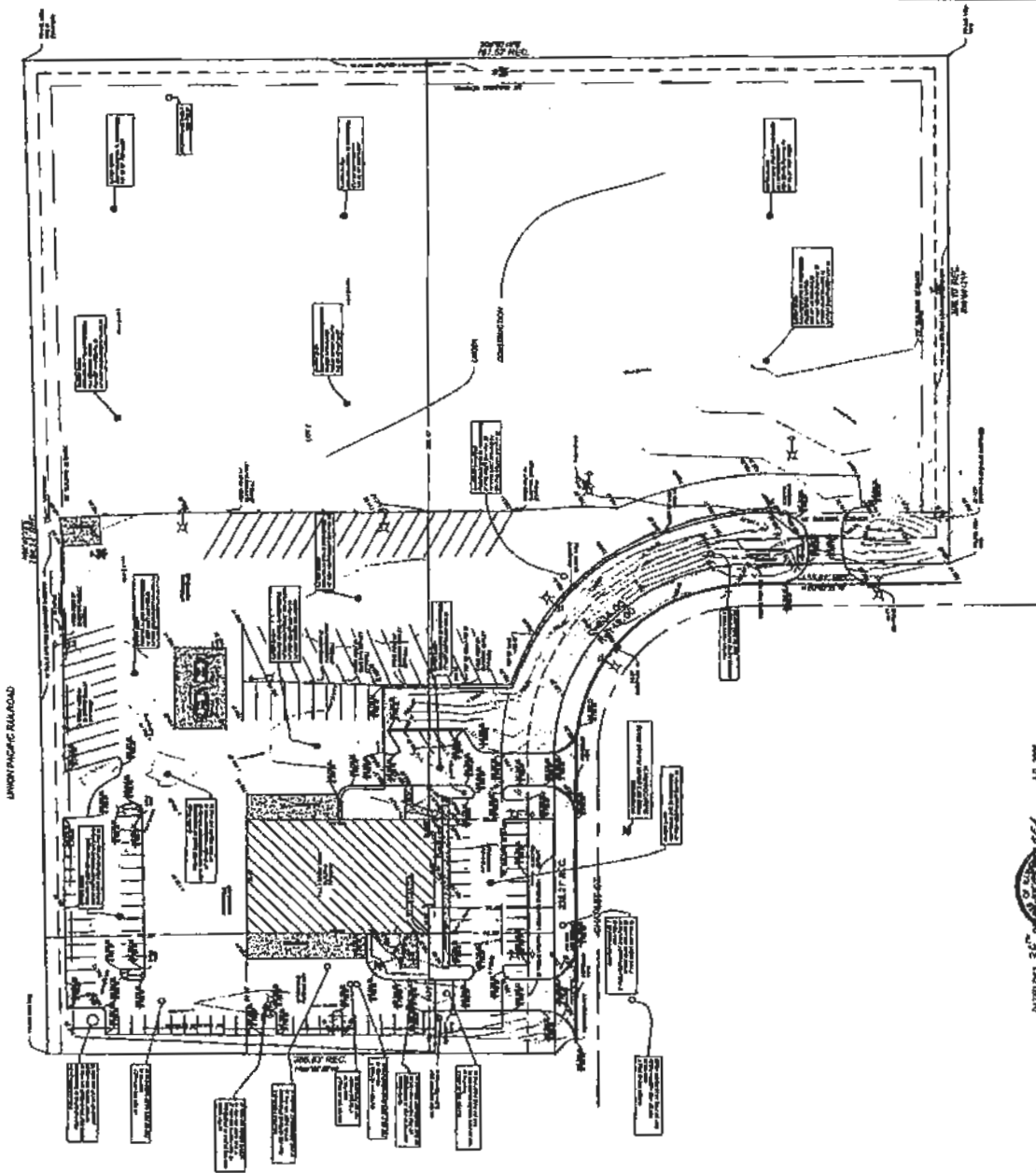
Pipe Report

Pipe	Upstream Node	Downstream Node	Inlet Area (acres)	Inlet C Coefficient	Inlet CA (acres)	Total CA (acres)	System Intensity (in/hr)	Discharge (cfs)	Length (ft)	Constructed Slope (ft/ft)	Section Size	Roughness	Capacity (cfs)	Upstream Invert Elevation (ft)	Downstream Invert Elevation (ft)
P-17	I-18	I-17	0.52	0.83	0.43	0.43	6.94	3.03	162.00	0.000309	18 inch	0.013	1.85	751.30	751.25
P-20	I-21	I-19	0.22	0.69	0.15	0.15	6.98	1.07	92.00	0.000435	12 inch	0.013	0.83	751.16	751.12
P-19	I-20	I-19	0.86	0.89	0.76	0.76	6.90	5.31	122.00	0.000410	18 inch	0.013	2.13	751.10	751.05
P-16	I-17	I-16	0.44	0.90	0.39	0.83	6.75	5.63	199.00	0.001357	18 inch	0.013	3.87	751.25	750.98
P-18	I-19	I-15	0.27	0.94	0.25	1.17	6.81	8.03	115.00	0.000696	24 inch	0.013	5.97	750.82	750.74
P-15	I-16	I-15	0.58	0.89	0.52	1.34	6.62	8.97	82.00	0.006951	24 inch	0.012	20.43	751.05	750.48
P-12	I-13	I-12	0.31	0.81	0.25	0.25	6.96	1.76	115.00	0.003130	12 inch	0.013	2.22	751.80	751.44
P-14	I-15	I-14	0.25	0.87	0.22	2.73	6.57	18.09	114.00	0.000351	29x45 inc	0.013	13.80	750.88	750.84
P-11	I-12	I-11	0.19	0.70	0.13	0.38	6.85	2.65	106.00	0.001792	12 inch	0.013	1.88	751.54	751.35
P-13	I-14	I-5	0.62	0.88	0.54	3.28	6.50	21.47	80.00	0.000875	29x45 inc	0.013	21.80	750.91	750.84
P-10	I-11	I-5	0.49	0.94	0.46	0.84	6.79	5.77	128.00	0.003438	18 inch	0.013	6.16	751.35	750.91
P-5	I-8	I-7	0.17	0.98	0.17	0.17	6.86	1.15	106.00	0.008509	12 inch	0.013	3.20	751.00	750.31
P-9	I-5	I-7	0.00	0.00	0.00	4.12	6.47	26.67	66.00	0.001061	38x60 inc	0.013	50.28	750.38	750.31
P-6	I-7	I-8	0.18	0.86	0.16	4.44	6.44	28.81	141.00	0.001064	38x60 inc	0.013	50.36	750.31	750.16
P-7	I-9	I-8	0.32	0.88	0.31	0.31	6.88	2.18	83.00	0.010120	12 inch	0.013	4.00	751.00	750.16
P-8	I-8	O-10	0.23	0.89	0.20	4.96	6.37	31.82	122.00	0.001311	38x60 inc	0.013	55.91	750.16	750.00

Node Report

Node	Inlet Area (acres)	Inlet C Coefficient	Inlet CA (acres)	External CA (acres)	Total CA (acres)	Inlet TC (min)	External TC (min)	Upstream Flow Time (min)	System Flow Time (min)	System Intensity (in/hr)	Total Watershed (CIA) (cfs)	Additional Flow (cfs)	Carryover (cfs)	Known Flow (cfs)	Total Upstream Added (cfs)	Discharge (cfs)
I-18	0.52	0.83	0.43	0.00	0.43	1.19	0.00	0.00	1.19	6.94	3.03	0.00	0.00	0.00	0.00	3.03
I-21	0.22	0.69	0.15	0.00	0.15	0.80	0.00	0.00	0.80	6.98	1.07	0.00	0.00	0.00	0.00	1.07
I-20	0.86	0.89	0.76	0.00	0.76	1.54	0.00	0.00	1.54	6.90	5.31	0.00	0.00	0.00	0.00	5.31
I-17	0.44	0.80	0.39	0.00	0.39	1.54	0.00	2.76	2.76	6.75	5.63	0.00	0.00	0.00	0.00	5.63
I-19	0.27	0.94	0.25	0.00	0.25	1.33	0.00	2.22	2.22	6.81	8.03	0.00	0.00	0.00	0.00	8.03
I-16	0.58	0.89	0.52	0.00	0.52	1.17	0.00	3.80	3.80	6.62	8.97	0.00	0.00	0.00	0.00	8.97
I-13	0.31	0.81	0.25	0.00	0.25	0.96	0.00	0.00	0.96	6.96	1.76	0.00	0.00	0.00	0.00	1.76
I-15	0.25	0.87	0.22	0.00	0.22	1.17	0.00	4.23	4.23	6.57	18.09	0.00	0.00	0.00	0.00	18.09
I-12	0.19	0.70	0.13	0.00	0.13	1.39	0.00	1.89	1.89	6.85	2.65	0.00	0.00	0.00	0.00	2.65
I-14	0.62	0.88	0.54	0.00	0.54	1.48	0.00	4.80	4.80	6.50	21.47	0.00	0.00	0.00	0.00	21.47
I-11	0.49	0.94	0.46	0.00	0.46	2.13	0.00	2.46	2.46	6.79	5.77	0.00	0.00	0.00	0.00	5.77
I-6	0.17	0.98	0.17	0.00	0.17	1.00	0.00	0.00	1.00	6.86	1.15	0.00	0.00	0.00	0.00	1.15
I-5	0.00	0.00	0.00	0.00	0.00	4.12	0.00	5.07	5.07	6.47	28.87	0.00	0.00	0.00	0.00	28.87
I-7	0.18	0.88	0.16	0.00	0.16	0.67	0.00	5.36	5.36	6.44	28.81	0.00	0.00	0.00	0.00	28.81
I-9	0.32	0.98	0.31	0.00	0.31	1.66	0.00	0.00	1.66	6.88	2.18	0.00	0.00	0.00	0.00	2.18
I-8	0.23	0.89	0.20	0.00	0.20	1.12	0.00	5.94	5.94	6.37	31.82	0.00	0.00	0.00	0.00	31.82
O-10	N/A	N/A	N/A	N/A	4.96	N/A	0.00	6.33	6.33	6.32	31.69	N/A	N/A	N/A	0.00	N/A

AS-BUILT



LEGEND

- 1. FINISHES
- 2. WALLS
- 3. FLOORS
- 4. CEILING
- 5. ROOF
- 6. MECHANICAL
- 7. ELECTRICAL
- 8. PLUMBING
- 9. STRUCTURE
- 10. LANDSCAPE
- 11. SITEWORK
- 12. UTILITIES
- 13. EXTERIOR
- 14. INTERIOR
- 15. OTHER



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Complete set of drawings including all sheets and notes to be provided to the contractor for construction.

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DATE: FEB 26, 2014
 TIME: 10:00 AM
 PROJECT: [REDACTED]
 DRAWING NO.: [REDACTED]
 SHEET NO.: [REDACTED]

DESIGNER: [REDACTED]	CHECKED: [REDACTED]
DATE: 2/23/14	SCALE: AS SHOWN
PROJECT: [REDACTED]	SHEET: 1 OF 1
OWNER: [REDACTED]	
CONTRACT NO.: [REDACTED]	
JOB NO.: 1316078	

MEMORANDUM

August 6, 2010

TO: Sarah Cooper, PE

FROM: Gerald L Robinson, PE, CFM 

SUBJECT: Summary of the 'As-Built' Conditions Detention Ponds
for the North Industrial Park
(CBBEL Project Number 99-48A)

The purpose of this memorandum is to summarize the results of the 'as-built' survey completed by SPACECO, Inc for the drainage divide determination located within the North Industrial Park as illustrated on the attached exhibit DDE. The North Industrial Park is located north of Washington Street between Charles Court and Wegner Drive. The individual elevation-storage computations and outlet structures are presented for each of the 6 ponds that were excavated as part of the construction of the industrial park and are shown on the previously supplied and accepted record drawings dated June 15, 2009.

There are 3 different points where stormwater is discharged from the North Industrial Park:

- Discharge Point 1 drains a large wetland area located in the northwest corner of the project. The flow from this wetland is discharged to the north along the railroad located along the northern boundary of the site. This discharge point drains Detention Ponds 1-3, which were all excavated adjacent to the wetland area and are controlled by the single discharge pipe out of the wetland area.
- Discharge Point 2 drains the eastern portion of the North Industrial Park and outlets into the City of West Chicago storm sewer system located within the Washington Street Right-of-Way. Ponds 4 and 6 are tributary to this discharge point.
- The third discharge point is located in the southwestern corner of the North Industrial Park and is also tributary to the Washington Street storm sewer system. Pond 5 (east and west) is located within this discharge point.

The revised drainage divides were input to the record drawing TR-20 hydrologic models. A comparison of the original calculations for the North Industrial Park and the 'as-built' volumes is presented in Table 1 and the TR-20 hydrologic input/output is included in Tab 1.



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