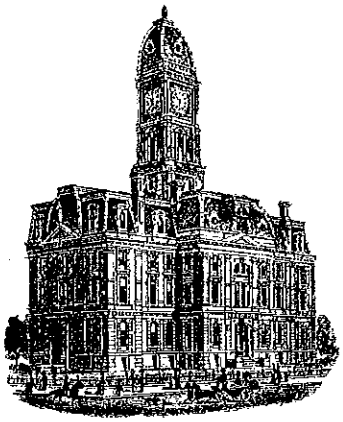

SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, CFM
Surveyor of Hamilton County
Phone (317) 776-8495
Fax (317) 776-9628

Suite 188
One Hamilton County Square
Noblesville, Indiana 46060-2230

October 1, 2015

To: Hamilton County Drainage Board

Re: Little Eagle Creek Drain, Maple Villas Arm

Attached is a petition filed by Maple Knoll Developer, LLC, along with a non-enforcement request, plans, calculations, quantity summary and assessment roll for the Maple Villas Arm, Little Eagle Creek Drain to be located in Washington Township. I have reviewed the submittals and petition and have found each to be in proper form.

I have made a personal inspection of the land described in the petition. Upon doing so, I believe that the drain is practicable, will improve the public health, benefit a public highway, and be of public utility and that the costs, damages and expenses of the proposed drain will probably be less than the benefits accruing to the owners of land likely to be benefited. The drain will consist of the following:

12" RCP	593 ft.	15" RCP	330 ft.
18" RCP	252 ft.	21" RCP	486 ft.
24" RCP	392 ft.	27" RCP	183 ft.
6" SSD	5,742 ft.		

The total length of the drain will be 7,978 feet.

The retention pond (Lake #1) located in Common Area #3 is to be considered part of the regulated drain, as other prior retention ponds in Maple Village are also part of the regulated drain. Pond maintenance assumed by the Drainage Board shall include the inlet and outlet as part of the regulated drain. The maintenance of the ponds (Lake #1) such as sediment removal and erosion control along the bank, mowing and aquatic vegetation control will be the responsibility of the Homeowners Association The Board will also retain jurisdiction for ensuring the storage volume for which the pond was designed will be retained, thereby, allowing no fill or easement encroachments.

The subsurface drains (SSD) to be part of the regulated drain are those located under the curbs and those main lines in rear yards. Only the main SSD lines which are located within the easement or right of way are to be maintained as regulated drain. Laterals for individual lots will not be considered part of the regulated drain. The portion of the SSD which will be regulated other than those under curbs are as follows:

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Curbline SSD in Streets:	Rear Yard SSDs:
Northham Drive	Rear yard lots 15A, 15B, and 16B from riser to riser
Evesham Lane	Rear yard lots 16A, 17A, and 17B from riser to riser
	Rear yard lots 18A and 18B from riser running south to Str.425
	Rear yard lots 28A and 28B from Str. 410 running south to riser
	Rear yard lots 27A, 27B, and 28A from Str. 411 to Str. 410
	Rear yard lots 27A to 26A from Str. 411 running north to riser
	Rear yard lots 5A to 1B from Str. 420 running south to riser
	Rear yard lots 6B to C.A. #2 from Str. 420 to Str. 422
	Rear yard lots C.A. #2 to 11A from Str. 423 to Str. 416
	Rear yard lots 12B to 14A from Str. 416 running west to riser

I have reviewed the plans and believe the drain will benefit each lot equally. Therefore, I recommend each lot be assessed equally. I also believe that no damages will result to landowners by the construction of this drain. I recommend a maintenance assessment of $65.00 per platted lot, $10.00 per acre for common areas, with a $65.00 minimum, and $10.00 per acre for roadways. With this assessment the total annual assessment for this drain will be $4,039.10.

In accordance with IC 36-7-4-709, the petitioner did not submit surety for the proposed drain prior to construction commencing. If the petitioner/developer wants to submit final secondary plat for recording prior to the final inspection and approved as-built drawings, a bond will be required at that time.

I believe this proposed drain meets the requirements for Urban Drain Classification as set out in IC 36-9-27-67 to 69. Therefore, this drain shall be designated as an Urban Drain.

I recommend that upon approval of the above proposed drain that the Board also approve the attached non-enforcement requests. The request will be for the reduction of the regulated drain easement to those easement widths as shown on the secondary plats for Maple Villas as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for November 23, 2015.

Kenton C. Ward, CFM
Hamilton County Surveyor
KCW/pll

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(Revised 06/08/04)

STATE OF INDIANA)
)
COUNTY OF HAMILTON)

FILED
JUL 09 2015
OFFICE OF HAMILTON COUNTY SURVEYOR

TO: HAMILTON COUNTY DRAINAGE BOARD
% Hamilton County Surveyor
One Hamilton County Square, Suite 188
Noblesville, IN. 46060-2230

In the matter of Maple Villas Subdivision, Section _____ Drain Petition.

Petitioner is the owner of all lots in the land affected by the proposed new regulated drain. The drainage will affect various lots in Maple Villas, a subdivision in Hamilton County, Indiana. The general route of such drainage shall be in existing easements and along public roads as shown in the plans on file in the Surveyor's Office.

Petitioner believes that the cost, damages and expenses of the proposed improvement will be less than the benefits which will result to the owners of the land likely to be benefited thereby. Petitioner believes the proposed improvements will:

(a) improve public health
(b) benefit a public street
(c) be of public utility

Petitioner agrees to pay the cost of construction of the drainage system and requests periodic maintenance assessments by the Board thereafter.

The Petitioner also agrees to the following:

1. To provide the Drainage Board a Performance Bond or Non-Revocable Letter of Credit for the portion of the drainage system which will be made a regulated drain. The bond will be in the amount of 120% of the Engineer's estimate. The bond will be in effect until construction of 100% of the system is completed and so certified by the Engineer.

2. The Petitioner shall retain an Engineer throughout the construction phase. At completion of the project the Petitioner's Engineer shall certify that the drainage system which is to be maintained as a regulated drain has been constructed as per construction plans.

3. The Petitioner agrees to request in writing to the County Surveyor any changes from the approved plan and must receive written authorization from the County Surveyor prior to implementation of the change. All changes shall be documented and given to the Surveyor to be placed in the Drain file.

4. The Petitioner shall instruct his Engineer to provide a reproducible print on a 24" x 36" Mylar of the final design of the Drainage System. This shall be submitted to the County Surveyor prior to the release of the Performance Bond.

5. The Petitioner shall comply with the Erosion Control Plan as specified on the construction plans. Failure to comply with the Erosion Control Plan shall be determined by the Board as being an obstruction to the drainage system. The County Surveyor shall immediately install or repair the needed measures at Petitioners cost as per IC 36-9-27-46.

Adobe PDF Fillable Form

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The Petitioner further requests that the Drain be classified as an Urban Drain as per IC 36-9-27-69(d).

RECORDED OWNER(S) OF LAND INVOLVED

Paul Rioux Signed	Signed
Paul Rioux - Maple Knoll Developer, LLC Printed Name	Printed Name
July 6, 2015 Date	Date
Signed	Signed
Printed Name	Printed Name
Date	Date

Adobe PDF Fillable Form

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FINDINGS AND ORDER

CONCERNING THE MAINTENANCE OF THE

Little Eagle Creek Drain, Maple Villas Arm

On this **23rd *day of November, 2015***, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the ***Little Eagle Creek Drain, Maple Villas Arm.***

Evidence has been heard. Objections were presented and considered. The Board then adopted the original/amended Schedule of Assessments. The Board now finds that the annual maintenance assessment will be less than the benefits to the landowners and issues this order declaring that this Maintenance Fund be established.

HAMILTON COUNTY DRAINAGE BOARD

President

Member

Member

Attest: Executive Secretary

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Platinum Properties

Maple Villas
Engineers Estimate - Storm Sewers & Monumentation
Prepared on: 9/10/2015

Item	Unit	Unit Cost	Quantities	Cost
Storm Drainage				
12" Pipe	LF	$ 23.00	593	$ 13,639
12" End Section	EA	$ 1,412.00	1	$ 1,412
12" Trash Guard	EA	$ 600.00	1	$ 600
15" Pipe	LF	$ 27.30	329	$ 8,982
18" Pipe	LF	$ 30.70	253	$ 7,767
21" Pipe	LF	$ 36.15	486	$ 17,569
21" End Section	EA	$ 1,600.00	1	$ 1,600
21" Trash Guard	EA	$ 750.00	1	$ 750
24" Pipe	LF	$ 41.55	392	$ 16,288
27" Pipe	LF	$ 52.00	183	$ 9,516
Pond Outlet Structure	EA	$ 3,750.00	1	$ 3,750
Standard Storm Manholes	EA	$ 2,300.00	4	$ 9,200
Large Storm Manholes & Double Inlets	EA	$ 4,030.00	1	$ 4,030
Storm Inlets	EA	$ 2,480.00	17	$ 42,160
Sand Backfill and Bedding	TON	$ 13.25	150	$ 1,988
Subtotal 1				$ 139,250
Sub-surface Drains - under curb	LF	$ 7.50	3,950	$ 29,625
Sub-surface Drains - swales	LF	$ 7.75	2,144	$ 16,616
Subtotal 2				$ 46,241
Total				**$ 185,491**
Monuments & Markers				
Lot Corner Monuments	LOT	$ 100.00	56.00	$ 5,600
Street Centerline Monumentation	EA	$ 150.00	15.00	$ 2,250
Total				**$ 7,850**
Erosion Control	LS	NA	NA	NA
--> Not Applicable - Property annexed by City of Westfield and governed by Westfield MS4 permit.				
Total				**$ -**
Grand Total				**$ 193,341**
Per Hamilton County Ordinance - Bond Amount			120%	**$ 232,009**

BY: _____

Timothy J. Walter, P.E.
Indiana Registration No. 19900152

317 818-2900 ◆ 317 863-2055 fax
9757 Westpoint Drive, Suite 600 ◆ Indianapolis, IN 46256

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BEFORE THE HAMILTON COUNTY DRAINAGE BOARD
IN THE MATTER OF

Little Eagle Creek Drain, Maple Villas Arm

NOTICE

To Whom It May Concern and: _____

_____

_____

Notice is hereby given of the hearing of the Hamilton County Drainage Board on the **Little Eagle Creek Drain, Maple Villas Arm** on **November 23, 2015** at **9:00 A.M.** in Commissioners Court, Hamilton County Judicial Center, One Hamilton County Square, Noblesville, Indiana, and which construction and maintenance reports of the Surveyor and the Schedule of Assessments made by the Drainage Board have been filed and are available for public inspection in the office of the Hamilton County Surveyor.

Hamilton County Drainage Board

Attest: Lynette Mosbaugh

ONE TIME ONLY

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BEFORE THE HAMILTON COUNTY DRAINAGE BOARD
IN THE MATTER OF THE

Little Eagle Creek Drain,
Maple Villas Arm

NOTICE

Notice is hereby given pursuant to Section 405 of the 1965 Indiana Drainage Code that this Board, prior to final adjournment on **November 23, 2015** has issued an order adopting the Schedule of Assessments, filed the same and made public announcement thereof at the hearing and ordered publication. If judicial review of the findings and order of the Board is not requested pursuant to Article Eight of this code within twenty (20) days from the date of this publication, the order shall be conclusive.

Hamilton County Drainage Board

Attest: Lynette Mosbaugh

ONE TIME ONLY

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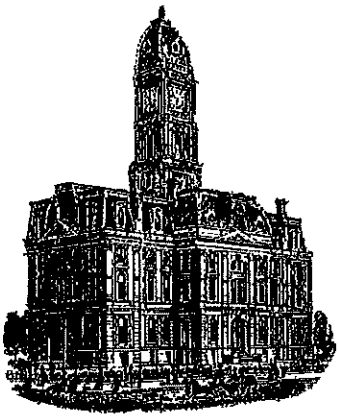
KCW



SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, CFM
Surveyor of Hamilton County
Phone (317) 776-8495
Fax (317) 776-9628

Suite 188
One Hamilton County Square
Noblesville, Indiana 46060-2230

To: Hamilton County Drainage Board **October 19, 2016**

Re: Little Eagle Creek Drain: Maple Villas

Attached are as-built, certificate of completion & compliance, and other information for Maple Villas. An inspection of the drainage facilities for this section has been made and the facilities were found to be complete and acceptable.

During construction, changes were made to the drain, which will alter the plans submitted with my report for this drain-dated October 1, 2015. The report was approved by the Board at the hearing held November 23, 2015. (See Drainage Board Minutes Book 16, Pages 362-364) The changes are as follows: the 12" RCP was shortened from 593 feet to 585 feet. The 15" was shortened from 330 feet to 296 feet. The 18" RCP was lengthened from 252 feet to 285 feet. The 21" RCP was lengthened shortened from 486 feet to 462 feet. The 24" RCP was shortened from 392 feet to 390 feet. The 27" RCP was shortened from 183 feet to 174 feet. The 6" SSD was shortened from 5,742 feet to 5,691 feet. The length of the drain due to the changes described above is now **7,883 feet**.

The non-enforcement was approved by the Board at its meeting on November 23, 2015 and recorded under instrument #2016033001. Sureties were not submitted in accordance with IC 36-7-4-709. I recommend the Board approve the drain's construction as complete and acceptable.

Sincerely,

Kenton C. Ward, CFM
Hamilton County Surveyor

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CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: Maple Villas

I hereby certify that:

1. I am a Registered Land Surveyor or Engineer in the State of Indiana.
2. I am familiar with the plans and specifications for the above referenced subdivision.
3. I have personally observed and supervised the completion of the drainage facilities for the above referenced subdivision.
4. The drainage facilities within the above referenced subdivision to the best of my knowledge, information and belief have been installed and completed in conformity with all plans and specifications.
5. The drainage facilities within the above referenced subdivision to the best of my knowledge, information and belief have been correctly represented on the Record Drawings, Digital Record Drawings and the Structure Data Spreadsheet.

Signature: _____ Date: June 3, 2016

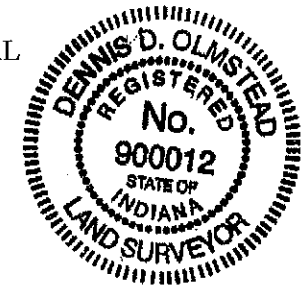
Type or Print Name: Dennis D. Olmstead - Stoeppelwerth & Associates, Inc.

Business Address: 7965 East 106th Street

Fishers, Indiana 46038

Telephone Number: (317) 570-4700

SEAL



INDIANA REGISTRATION NUMBER

900012

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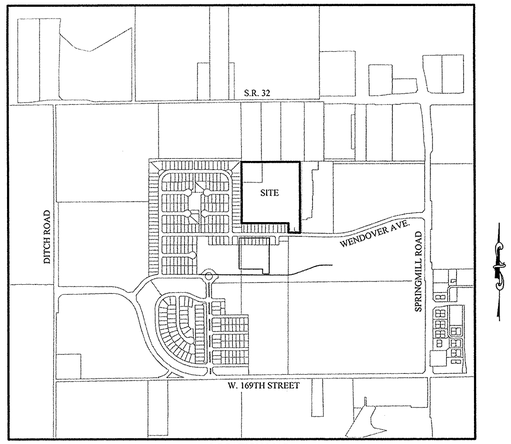
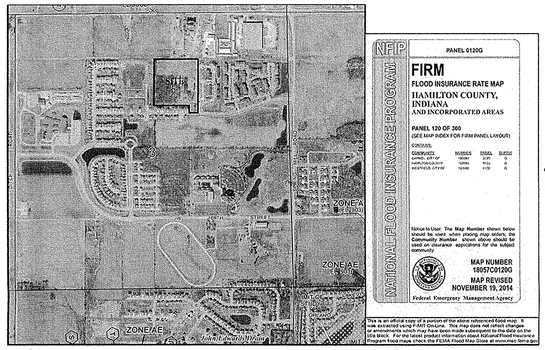
MAPLE VILLAS

Developed by:
MAPLE KNOLL DEVELOPER, LLC
9757 Westpoint Drive Suite 600
Indianapolis, Indiana 46256
Phone: (317) 564-7304
Contact Person: Tim Walsh

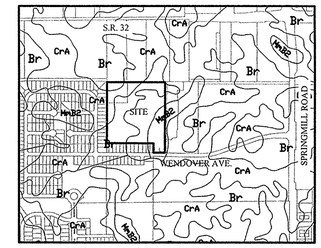


LOCATION MAP
SCALE: 1" = 1000'



NOTE: NO STREAMS APPEAR TO BE ON OR IMMEDIATELY ADJACENT TO THE PROPERTY. THE S.M. SMITH REGULATED DRAIN TILE HAS BEEN VACATED UPSTREAM OF THIS PROJECT SITE.

FLOOD MAP
N.T.S.



SOILS MAP
Br, CrA, MmB2
SCALE: 1"=1000'

Br-Brookston silty clay loam

This nearly level, deep, very poorly drained soil is in broad depressions, swales, and narrow drainageways on till plains. It is ponded by runoff from higher adjacent areas. The mapped areas are mostly oval shaped or fingerlike and range from 3 to 250 acres in size.

CrA - Crosby silt loam, 0 to 3 percent slopes

This nearly level, deep, somewhat poorly drained soil is on slight rises on broad, undulating till plains. The mapped areas are irregular in shape and range from 3 to 200 acres in size.

MmB2 - Miami silt loam, 2 to 6 percent slopes, eroded

This gently sloping, deep, well drained soil is on rises on till plains and along drainageways and streams. The mapped areas range from 3 to 50 acres in size.

This information was gathered for input into the Hamilton County Geographic Information System (GIS). This document is considered an official record of the GIS.
Entry Date: Oct 2016
Entered By: SLM

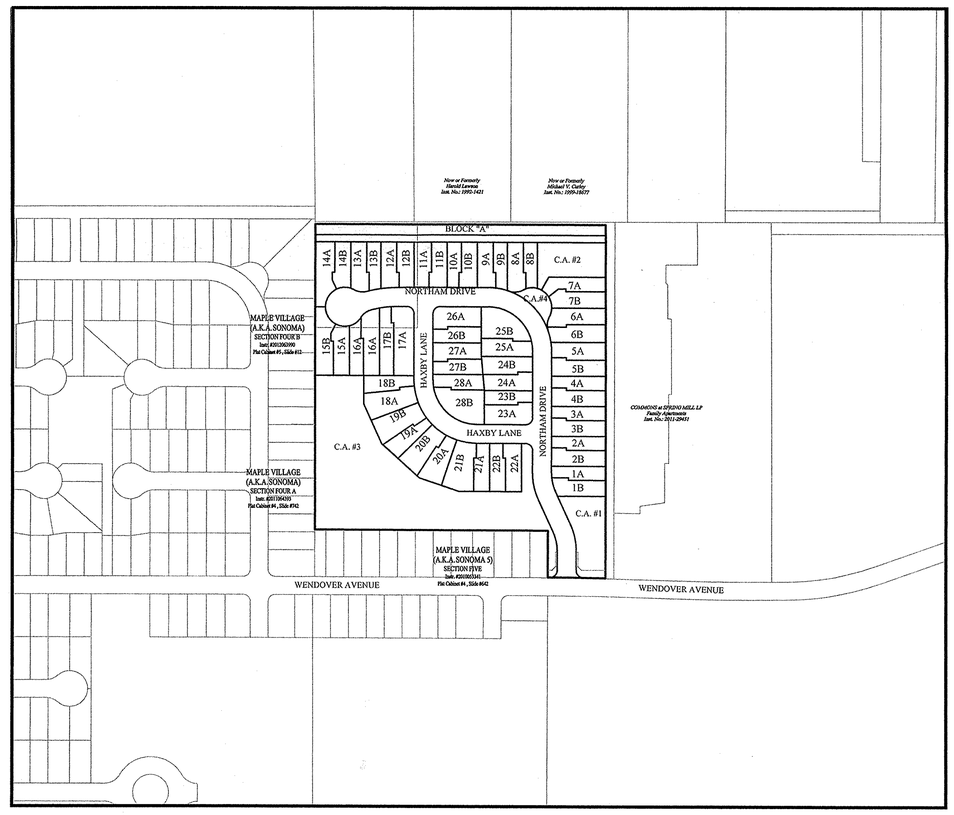
RECORD DRAWING

Dennis D. Olmstead
Registered Land Surveyor
No. 900012
06/02/2016

DENNIS D. OLMSTEAD REGISTERED No. 900012 STATE OF INDIANA LAND SURVEYOR

INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS LATEST EDITION TO BE USED WITH THESE PLANS UNLESS ALTERNATE SPECIFICATIONS ARE SHOWN WITHIN.

WESTFIELD CONSTRUCTION STANDARD DETAILS AND SPECIFICATIONS LATEST EDITIONS TO BE USED WITH THESE PLANS.



DESIGN DATA

56 LOTS
16.330 AC. = 3.43 LOTS/ACRE

NORTHAM DRIVE	1,322.13 L.F.
HAXBY LANE	645.41 L.F.
TOTAL	1,967.54 L.F.

DESIGN SPEED LIMIT: 25 M.P.H
POSTED SPEED LIMIT: 20 M.P.H

GRAPHIC SCALE
200' 0 100' 200'
(IN FEET)
1" = 200 FT

INDEX

SHT.	DESCRIPTION
C001	COVER SHEET
C100	TOPOGRAPHICAL SURVEY & DEMOLITION PLAN
C200	SITE DEVELOPMENT PLAN
C300-C305	INITIAL STORM WATER POLLUTION & PREVENTION PLAN TEMPORARY STORM WATER POLLUTION & PREVENTION PLAN PERMANENT SEDIMENT & EROSION CONTROL PLAN STORM WATER POLLUTION & PREVENTION SPECIFICATIONS STORM WATER POLLUTION & PREVENTION DETAILS
C400-C405	STREET PLAN & PROFILES TRAFFIC CONTROL PLAN ENTRANCE DETAIL INTERSECTION DETAILS
C500-C503	SANITARY SEWER PLAN & PROFILES
C600-C603	STORM SEWER PLAN & PROFILES
C700-C701	WATER PLAN WATER DETAILS
C800-C806	CONSTRUCTION DETAILS SANITARY STORM STREET
C900, C901, C903	LANDSCAPE PLANS

REVISIONS

SHT.	DESCRIPTION
C200, C500-C502, C600-C603, C700	ASBUILTS 05/27/16 GEM

UTILITY CONTACTS

AT & T
5858 North College Ave.
Indianapolis, Indiana 46220
Contact: Michael Hayes
Ph: (317) 252-4007

Comcast Cable
5330 East 65th Street
Indianapolis, Indiana 46220
Contact: Matt Stringer
Ph: (317) 774-3384

Duke Energy
16475 Southpark Drive
Westfield, Indiana 46074
Contact: Shirley Hunter
Ph: (317) 896-6711

Westfield Public Works Department
2706 East 171st Street
Westfield, Indiana 46074
Ph: (317) 804-3100

Buckeye Pipeline
940 Buckeye Road
Lima, Ohio 45804
Contact: Marty White
Ph: (419) 993-8008

Frontier Communications
20905 Hague Road (Rear Building)
Noblesville, Indiana 46060
Contact: Steve Costlow
Ph: (317) 984-9010

Vectren Energy
16999 Allisonville Road
Noblesville, Indiana 46060
Contact: Charlotte May
Ph: (317) 776-5592

Brighthouse Networks
3030 Roosevelt Ave.
Indianapolis, Indiana 46218
Contact: Gary Richardson
Ph: (317) 632-9077

Citizens Wastewater of Westfield, LLC
2150 Dr. Martin Luther King Jr. Street
Indianapolis, Indiana 46202
Contact: Harry Nikides
Ph: (317) 429-3972

Citizens Water of Westfield, LLC
2150 Dr. Martin Luther King Jr. Street
Indianapolis, Indiana 46202
Contact: Harry Nikides
Ph: (317) 429-3972

PLANS PREPARED BY:
STOEPPELWERTH & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
7965 E. 106TH STREET, FISHERS, INDIANA 46038
PHONE: (317)-849-5935
FAX: (317)-849-5942
CONTACT PERSON: BRETT A. HUFF
EMAIL: bhuff@Stoeppelwerth.com

PLANS CERTIFIED BY:

DAVID J. STOEPPELWERTH
PROFESSIONAL LAND SURVEYOR
NO. 19358
05/28/2015

DAVID J. STOEPPELWERTH REGISTERED No. 19358 STATE OF INDIANA PROFESSIONAL ENGINEER

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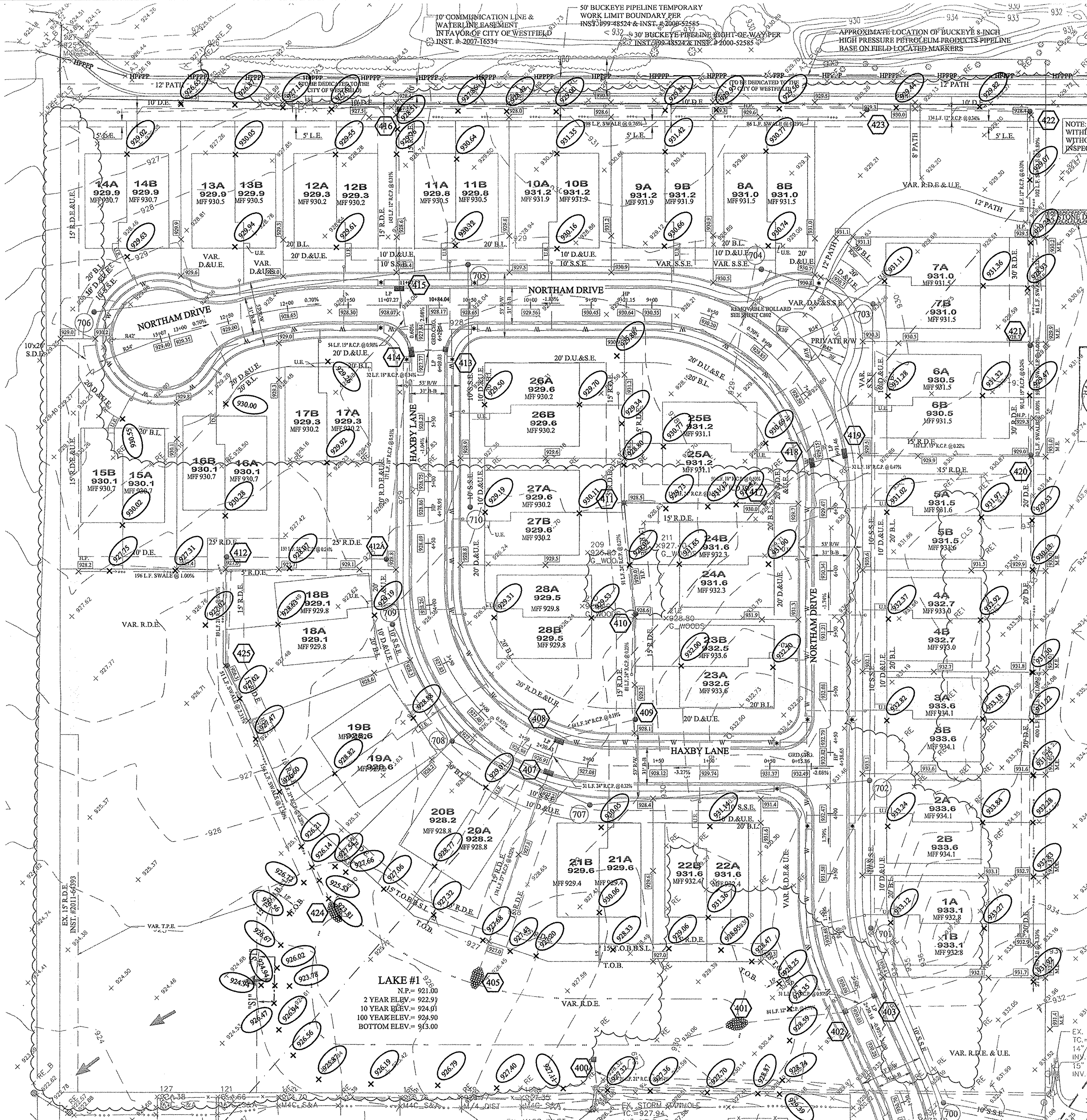
RECORD DRAWING



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Dennis D. Olmstead 06/02/2016
Registered Land Surveyor
No. 900012

DENNIS D. OLMSTEAD REGISTERED No. 900012 STATE OF INDIANA LAND SURVEYOR

LEGEND

- EXISTING CONTOUR
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- PROPOSED GRADE
- PROPOSED CONTOUR
- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER
- PROPOSED WATER LINE
- PROPOSED SWALE
- PROPOSED 5' SIDEWALK (BY HOME BUILDER) (DEVELOPER SHALL INSTALL SIDEWALKS ALONG ALL COMMON AREAS)
- ASBUILT GRADE ELEV.
- 69 / 769.0 — LOT NUMBER / PAD ELEVATION
- PROPOSDED 6" UNDERDRAINS
- MFF 771.9 — MINIMUM FINISH FLOOR ELEVATION IS BASED OFF OF THE BELOW
  1. (1) FOOT ABOVE THE NEAREST UPSTREAM OR DOWNSTREAM SANITARY MANHOLE, WHICHEVER IS LOWEST.
  2. 15" (1.25') ABOVE THE ROAD ELEVATION
- EMERGENCY OVERLAND ROUTE

SSD TO LOT — RISER TC — 6" SSD
(SEE SUMP PLAN SHEET C602 FOR MORE DETAILS)

GRAPHIC SCALE
50' 0 25' 50'
(IN FEET)
1" = 50 FT

SEE RECORD DRAWING

STORM STRUCTURE TABLE

STR.#	TYPE	T.C.	CASTING TYPE	DIA. IN	DIR. IN	INV. IN	DIA. OUT	DIR. OUT	INV. OUT	SLOPE
400	OUTLET CONTROL	923.94	SPECIAL				21	S	920.85	0.14%
401	END SECTION	922.13		12	E	920.96				
402	CURB INLET W/2' SUMP	930.01	R-3501-L2	12	NE	925.95	12	W	922.40	1.71%
403	CURB INLET	930.24	R-3501-L2				12	SW	926.25	0.97%
405	END SECTION	923.47		27	N	921.00				
407	DBL CURB INLET W/2' SUMP	926.91	R-3501-TL/TR	24	N	922.00	27	S	921.90	0.52%
408	DBL CURB INLET	926.84	R-3501-TL/TR	24	E	922.18	24	S	922.10	[illegible]
409	MANHOLE	928.94	R-1772	24	N	922.40	24	W	922.30	[illegible]
410	YARD INLET	928.70	R-4342	24	N	922.70	24	S	[illegible]	[illegible].23%
411	YARD INLET	928.37	R-4342	24	E	923.05	24	S	[illegible]	0.27%
412	MANHOLE	927.76	R-1772	21	E	922.13	21	[illegible]	922.03	0.26%
412A	MANHOLE	929.00	R-1772	18	N	922.54	21	[illegible]	922.44	0.24%
413	CURB INLET	927.88	R-3501-L2				[illegible]	W	923.63	0.34%
414	DBL CURB INLET W/2' SUMP	927.72	R-3501-TL/TR	15 18	N E	[illegible]	18	S	923.42	0.51%
415	DBL CURB INLET	928.10	R-3501-TL/TR	12	N	[illegible]	15	S	924.05	0.98%
416	YARD INLET	926.77					12	S	924.60	0.31%
417	MANHOLE	930.05	R-1772	18	NE	923.40	24	W	923.30	0.22%
418	DBL CURB INLET	929.00	R-3501-R	[illegible]	E	923.75	18	SW	923.65	0.50%
419	DBL CURB INLET	929.13	[illegible]	15	E	923.98	18	W	923.90	0.47%
420	YARD INLET	928.64	[illegible]4342	15	N	924.40	15	W	924.31	0.22%
421	YARD INLET STANDARD	[illegible]	R-4342	12	N	924.72	15	S	924.62	0.24%
422	YARD [illegible]	[illegible].14	R-4342	12	W	925.38	12	S	925.28	0.30%
423	[illegible]ARD [illegible]	928.58	R-4342				12	E	925.84	0.34%
42[illegible]	[illegible]ECTION	924.06		21	NW	921.08				
425	YARD INLET	926.17		21	N	921.80	21	SE	921.70	0.28%
501	EX. MANHOLE	927.91	EXISTING	21	N	920.82				

STORM PIPE TABLE

NAME	SIZE	LENGTH	SLOPE	MATERIAL
400-EX501	21"	23.59'	0.[illegible]%	[illegible]
402-401	12"	84.43'	[illegible]	R.C.P.
403-402	12"	[illegible]	[illegible]0.97%	R.C.P.
407-406	[illegible]"	17[illegible]7'	0.52%	R.C.P.
408-4[illegible]	[illegible]"	31.00'	0.32%	R.C.P.
[illegible]	24"	64.09'	0.19%	R.C.P.
410-409	24"	88.13'	0.23%	R.C.P.
411-410	24"	90.61'	0.27%	R.C.P.
412-425	21"	89.43'	0.26%	R.C.P.
412A-412	21"	131.45'	0.24%	R.C.P.
414-412A	18"	170.87'	0.51%	R.C.P.
414-413	18"	32.00'	0.34%	R.C.P.
415-414	15"	54.47'	0.98%	R.C.P.
416-415	12"	145.44'	0.31%	R.C.P.
417-411	24"	115.94'	0.22%	R.C.P.
418-417	18"	49.69'	0.50%	R.C.P.
419-418	18"	32.03'	0.47%	R.C.P.
420-419	15"	151.99'	0.22%	R.C.P.
421-420	15"	90.43'	0.24%	R.C.P.
422-421	12"	191.27'	0.30%	R.C.P.
423-422	12"	134.48'	0.34%	R.C.P.
425-424	21"	218.18'	0.28%	R.C.P.

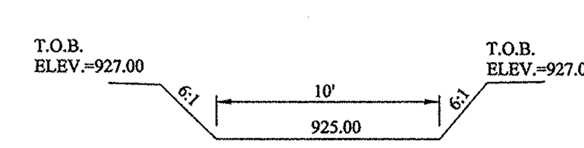
EARTHWORK:

1. EXCAVATION
   A. Excavated material that is suitable may be used for fills. All unsuitable material and all surplus excavated material not required shall be removed from the site.
   B. Provide and place any additional fill material from offsite as may be necessary to produce the grades required on plans. Fill obtained from offsite shall be of quality as specified for fills herein and the source approved by the Developer. It will be the responsibility of the Contractor for any costs for fill needed.
2. REMOVAL OF TREES
   A. All trees and stumps shall be removed from areas to be occupied by a road surface or structure area. Trees and stumps shall not be buried on site.
3. PROTECTION OF TREES
   A. The Contractor shall, at the direction of the Developer, endeavor to save and protect trees of value and worth which do not impair construction of improvements as designed.
   B. In the event cut or fill exceeds 0.5 foot over the root area, the Developer shall be consulted with respect to protective measure to be taken, if any, to preserve such trees.
4. REMOVAL OF TOPSOIL
   A. All topsoil shall be removed from all areas beneath future pavements or building. Topsoil removal shall be to a minimum depth of 6 inches or to the depth indicated in the geotechmical report provided by the Developer to be excavated or filled. Topsoil should be stored at a location where it will not interfere with construction operations. The topsoil shall be free of debris and stones.
5. UTILITIES
   A. Rules and regulation governing the respective utility shall be observed in executing all work under this section.
   B. It shall be the responsibility of the Contractor to determine the location of existing underground utilities 2 working days prior to commencing work. For utility locations to be marked call Toll Free 1-800-382-5544 within Indiana or 1-800-428-5200 outside Indiana.
6. SITE GRADING
   A. Do all cutting, filling, compacting of fills and rough grading required to bring entire project area to subgrade as shown on the drawing.
   B. The tolerance for paved areas shall not exceed 0.05 feet above established subgrade. All other areas shall not exceed 0.05 feet plus or minus the established grade. Provide roundings at top and bottom of banks and other breaks in grade.
   C. The Engineer shall be notified when the Contractor has reached the tolerance as stated above, so that field measurements and spot elevations can be verified by the Engineer. The Contractor shall not remove his equipment from the site until the Engineer has verified that the job meets the above tolerance.

FORM\EARTHWRK

UTILITY CROSSINGS

CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION TO CONFIRM THERE ARE NO CROSSING CONFLICTS. CONFLICTS THAT ARE DISCOVERED AFTER CONSTRUCTION BEGINS ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY.



CROSS SECTION
SPILLWAY LAKE #1
"S1"-"S1"
NOT-TO-SCALE

IUPPS Dig Safely.
Indiana Underground Plant Protection Service

811
Know what's below.
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REFERENCE BENCHMARK

B 112 - A STANDARD DISK, STAMPED "B 112 1946" AND SET IN THE TOP OF A CONCRETE POST PROJECT 5" ABOVE GROUND, LOCATED ALONG S.R. 32 AND 0.25 MILES EAST OF CASEY ROAD, 24 FEET NORTH OF THE CENTERLINE OF SAID HIGHWAY, 167 FEET EAST OF THE CENTERLINE OF THE DRIVEWAY LEADING TO H.J. MATTHEWS FARM HOUSE, 75 FEET SOUTHEAST OF THE SOUTHEAST CORNER OF A BARN, 4 FEET EAST OF A FENCE CORNER POST. (FOR THE NGS DATA SHEET VISIT: WWW.NGS.NOAA.GOV/CGI-BIN/DATASHEET.PRL)

ELEVATION: 924.24 (NAVD 88)

TBM. NO.1

A RAILROAD SPIKE, UP 1 FEET ± ON THE NORTH SAID OF POWER POLE # 301-216, LOCATED ALONG THE WEST SIDE OF SPRINGMILL ROAD AND 0.25 MILES SOUTH OF S.R. 32.

ELEVATION: 917.87' (NAVD 88)

TBM. NO.2

A RAILROAD SPIKE, UP 1 FEET ± ON THE WEST SIDE OF A POWER POLE (THERE IS A RAILROAD SPIKE ON THE EAST SIDE OF POWER POLE NOT FOR THIS JOB), LOCATED ALONG THE WEST SIDE OF SPRINGMILL ROAD AND 0.35 MILES NORTH OF 161 ST.

ELEVATION: 905.63' (NAVD 88)

TBM. NO.3

A RAILROAD SPIKE, UP 1 FEET ± ON THE NORTH SIDE OF POWER POLE # 060-700, LOCATED ALONG THE SOUTH SIDE OF 161 ST. AND 0.3 MILES WEST SIDE OF SPRINGMILL ROAD.

ELEVATION: 913.16' (NAVD 88)

TBM. NO.4

A RAILROAD SPIKE, UP 1 FEET ± ON THE NORTH SIDE OF POWER POLE # 060-691, LOCATED ALONG THE SOUTH SIDE OF 161 ST. AND 0.4 MILES EAST SIDE OF DITCH ROAD.

ELEVATION: 915.47' (NAVD 88)

TBM. NO.5

A RAILROAD SPIKE, UP 1 FEET ± ON THE WEST SIDE OF A POWER POLE, LOCATED ALONG THE NORTH SIDE OF 169 ST. AND 0.5 MILES WEST SIDE OF SPRINGMILL ROAD.

ELEVATION: 923.46' (NAVD 88)

TBM. NO.6

A RAILROAD SPIKE, UP 1 FEET ± ON THE SOUTH SIDE OF A POWER POLE, LOCATED ON THE NORTH SIDE OF STATE ROAD 32 AND 0.25 MILES EAST OF SPRINGMILL ROAD, 120 FEET ± EAST OF THE E.F.S. INC. BUILDING (BUILDING ADDRESS IS 40 WEST STATE ROAD 32.)

ELEVATION: 921.22' (NAVD 88)

TBM. NO.7

A RAILROAD SPIKE, UP 1 FEET ± ON THE EAST SIDE OF POWER POLE # 838-8410, LOCATED ALONG THE EAST SIDE OF DITCH ROAD AND 0.3 MILES SOUTH OF STATE ROAD 32.

ELEVATION: 920.44' (NAVD 88)

TBM. NO.8

A ALLUMIUM DISC SET IN CONCRETE, MARKED CYNERGY SURVEY MARKER AT NORTHEAST CORNER OF SUB STATION LOCATED AT DITCH ROAD AND 169th ST.

ELEVATION: 922.40' (NAVD 88)

DATE	MARK	REVISIONS	BY
05/27/16		ASBUILT	GEM
4/22/16		REV. REAR LOT LINE AREA OF LOTS 9-14	BAH
02/16/16		REVISED PER CLIENT CHANGES	ADG

DAVID J. STOEPPELWERTH REGISTERED No. 19358 STATE OF INDIANA PROFESSIONAL ENGINEER

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CERTIFIED: 05/28/15

STOEPPELWERTH
ALWAYS ON
7965 East 106th Street, Fishers, IN 46038-2505
phone: 317.849.5935 fax: 317.849.5942

SITE DEVELOPMENT PLAN

MAPLE VILLAS

WESTFIELD — HAMILTON COUNTY, INDIANA

DRAWN BY: ADG — CHECKED BY: BAH

SHEET NO. C200

S & A JOB NO. 50690PLA-R1

File Name: S:\50690PLA-R1\DWG\C200 - Site Development Plan.dwg - C200
Modified / By: June 1, 2016 3:56:16 PM / gmyers
Plotted / By: June 2, 2016 12:03:45 PM / Greg Myers

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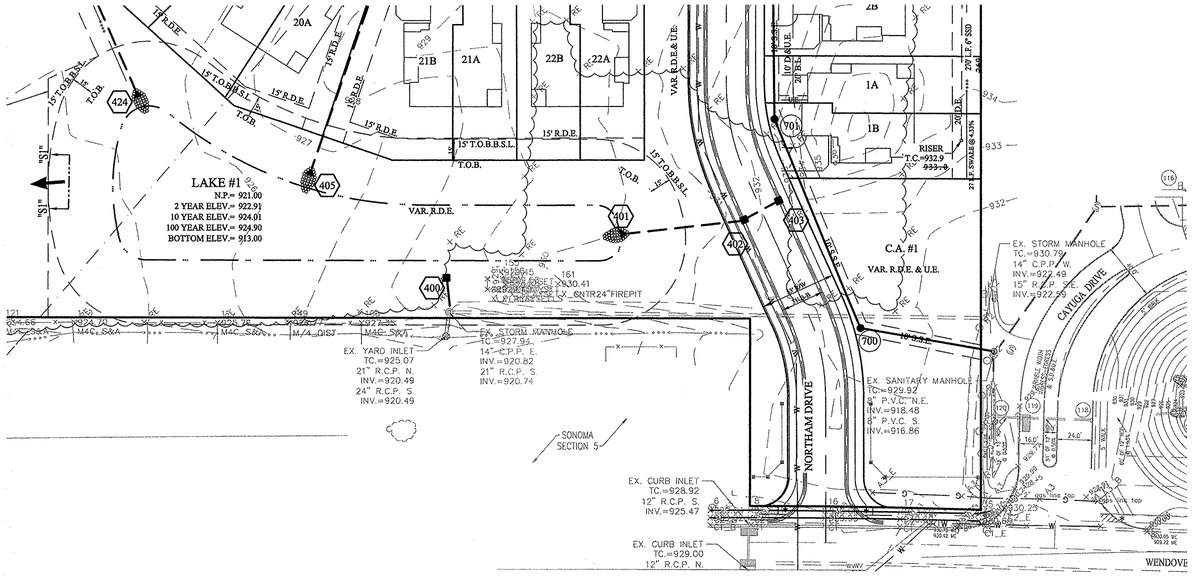

NOTES:

ALL STORM STRUCTURES TO RECEIVE SOLID LID CASTINGS ARE TO BE CONSTRUCTED TO PROVIDE ONE 4" RISER RING NO MORE, NO LESS TO ACHIEVE PLAN RIM GRADE.

ALL YARD INLETS ARE TO BE CONSTRUCTED AT A TOLERANCE OF +0.00' TO -0.20' OF PLAN GRADE.

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ALL BEEHIVE CASTINGS ON A 2'x2' BOX SHALL HAVE A SQUARE RISER WITH A ROUND HOLE.

DENOTES FULL DEPTH GRANULAR BACKFILL

GRAPHIC SCALE

50' 0 25' 50'

(IN FEET)

1" = 50 FT

EXISTING SANITARY SEWER

EXISTING STORM SEWER

PROPOSED SANITARY SEWER

PROPOSED STORM SEWER

PROPOSED WATER LINE

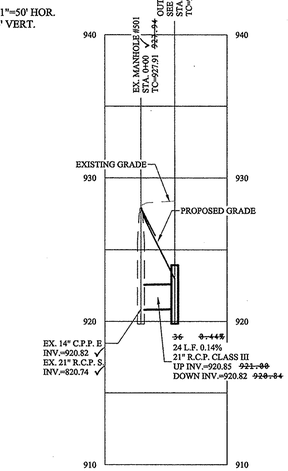
RECORD DRAWING

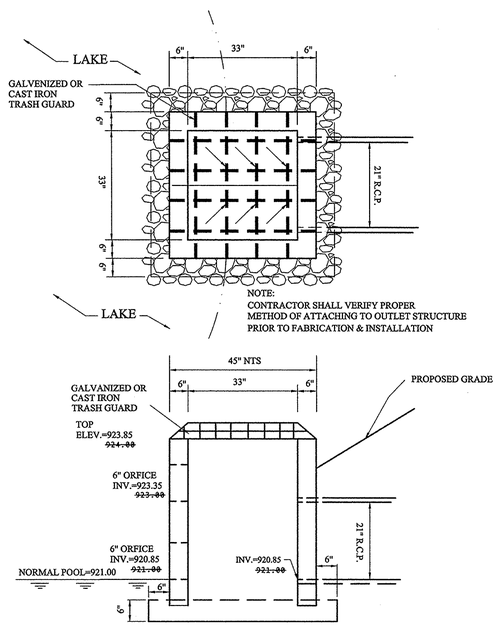
Dennis D. Olmstead
Registered Land Surveyor
No. 900012

06/02/2016

DENNIS D. OLMSTEAD REGISTERED No. 900012 STATE OF INDIANA LAND SURVEYOR

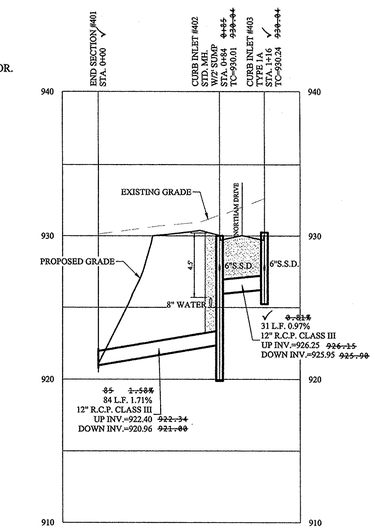
SCALE: 1"=50' HOR.
1"=5' VERT.





OUTLET CONTROL STRUCTURE #400 DETAIL
NOT TO SCALE

SCALE: 1"=50' HOR.
1"=5' VERT.



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Entered By: SLM

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Indiana Underground Plant Protection Service

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CERTIFIED: 05/28/15

DAVID J. STOEPPELWERTH REGISTERED No. 19358 STATE OF INDIANA PROFESSIONAL ENGINEER

DATE	MARK	REVISIONS	BY
05/27/16	ASBUILT		GEM

STOEPPELWERTH
ALWAYS ON
7965 East 106th Street, Fishers, IN 46038-2505
phone: 317.849.5935 fax: 317.849.5942

STORM SEWER PLAN & PROFILE

MAPLE VILLAS

HAMILTON COUNTY, INDIANA

WESTFIELD

DRAWN BY: ADG
CHECKED BY: BAH
SHEET NO. C600
S & A JOB NO. 50690PLA-R1

File Name: S:\50690PLA-R1\DWG\C600 - Storm Sewer Plan & Profile.dwg - C600
Modified By: Nov 22, 2016 8:11:38 AM / Greg Myers
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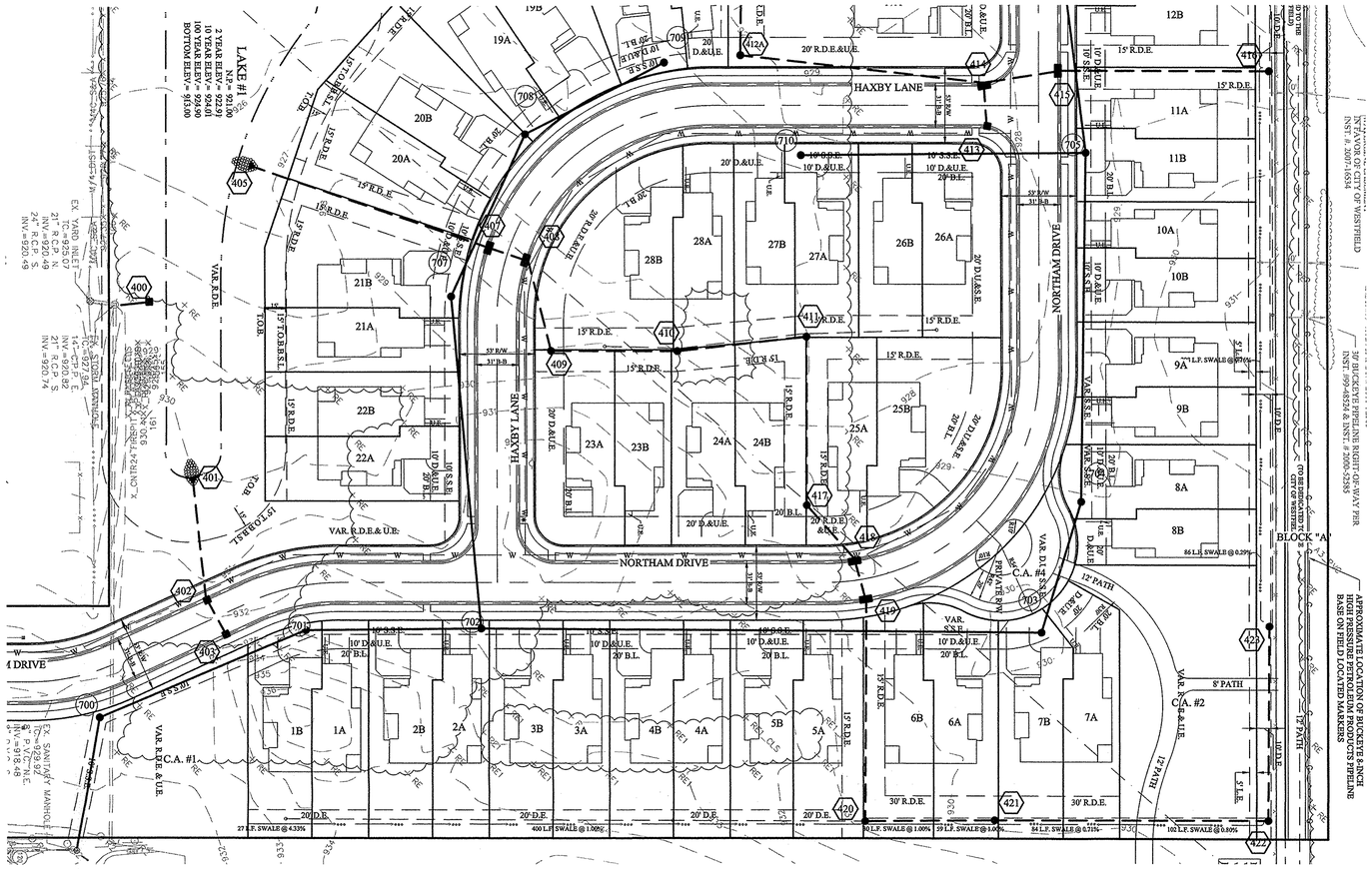

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DENOTES FULL DEPTH GRANULAR BACKFILL

GRAPHIC SCALE

50' 0 25' 50'

(IN FEET)

1" = 50 FT

EXISTING SANITARY SEWER

EXISTING STORM SEWER

PROPOSED SANITARY SEWER

PROPOSED STORM SEWER

PROPOSED WATER LINE

RECORD DRAWING

Dennis D. Olmstead
Registered Land Surveyor
No. 900012

06/02/2016

DENNIS D. OLMSTEAD REGISTERED No. 900012 STATE OF INDIANA LAND SURVEYOR

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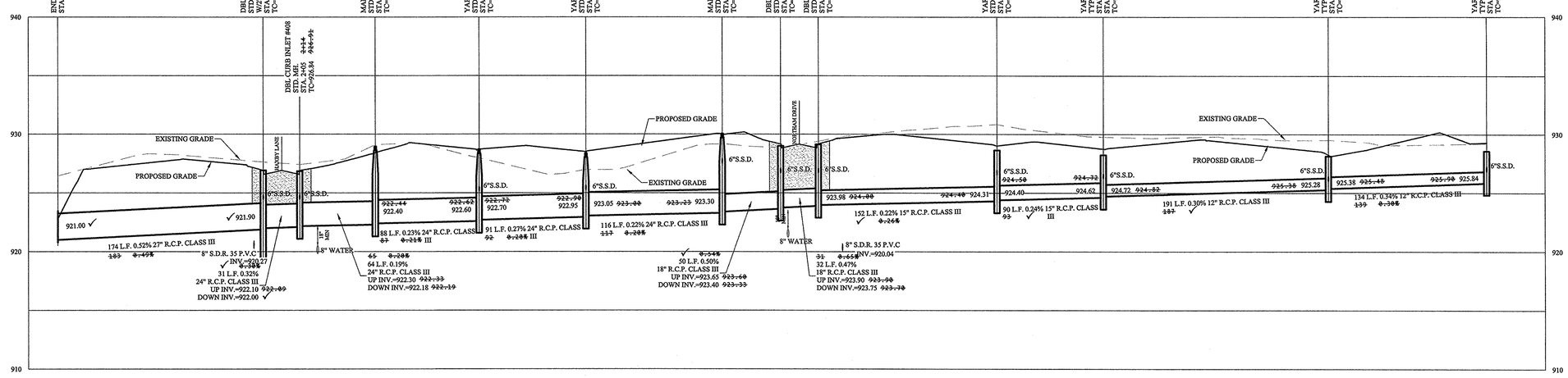
Entry Date: OCT 2016

Entered By: SLM

SCALE: 1"=50' HOR.
1"=5' VERT.



MARK	DATE	REVISIONS	BY
	05/27/16	ASBUILT	GEM
	02/16/16	REVISED PER CLIENT CHANGES	ADG
	08/28/15	REMOVED STR. BETWEEN #05 & 407	ADG
	08/27/15	ADDED 0.10 INVERT DROPS AT STRUCTURES	ADG

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CERTIFIED: 05/28/15

DAVID J. STOEPPELWERTH REGISTERED No. 19358 STATE OF INDIANA PROFESSIONAL ENGINEER

STOEPPELWERTH & ASSOCIATES
7965 East 106th Street, Fishers, IN 46038-2505
phone: 317.849.5935 fax: 317.849.5942

STORM SEWER PLAN & PROFILE

MAPLE VILLAS

WESTFIELD HAMILTON COUNTY, INDIANA

DRAWN BY: ADG
CHECKED BY: BAH
SHEET NO. C601
S & A JOB NO. 50690PLA-R1

IUPPS Dig Safely. Indiana Underground Plant Protection Service

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Modified / By: May 27, 2016 9:11:38 AM / gmyers
Plotted / By: June 2, 2016 12:12:08 PM / Greg Myers

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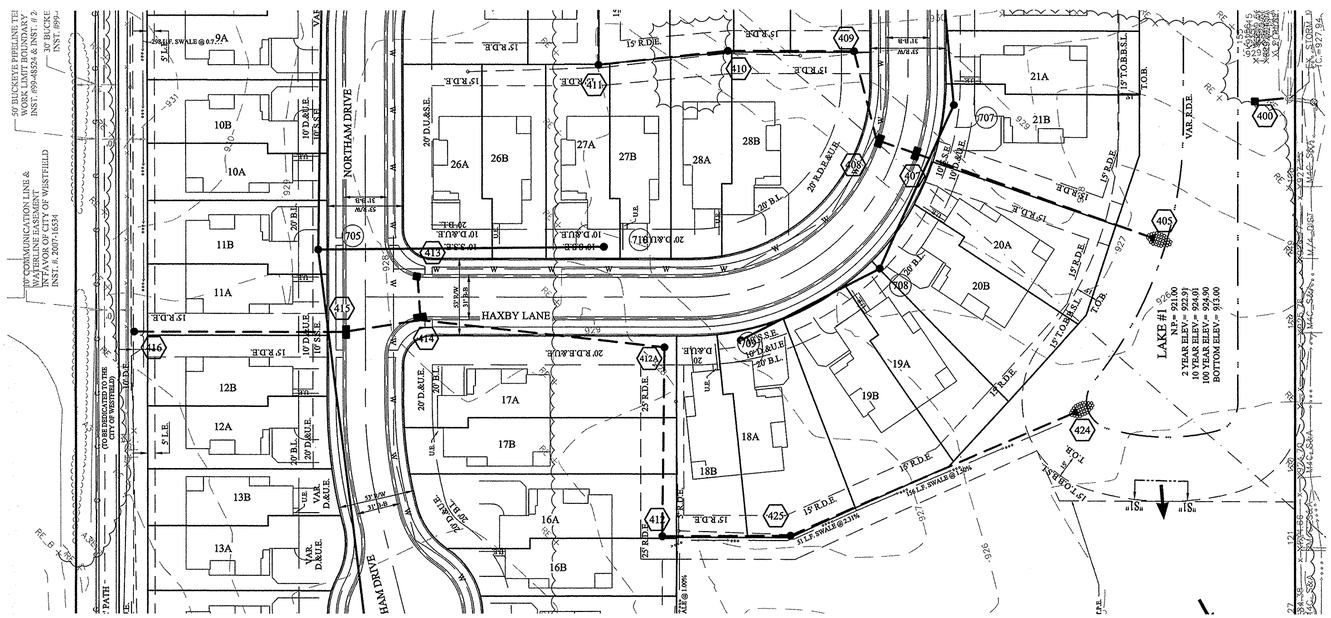

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GRAPHIC SCALE

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(IN FEET)

1" = 50 FT

EXISTING SANITARY SEWER

EXISTING STORM SEWER

PROPOSED SANITARY SEWER

PROPOSED STORM SEWER

PROPOSED WATER LINE

RECORD DRAWING

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No. 900012

06/02/2016

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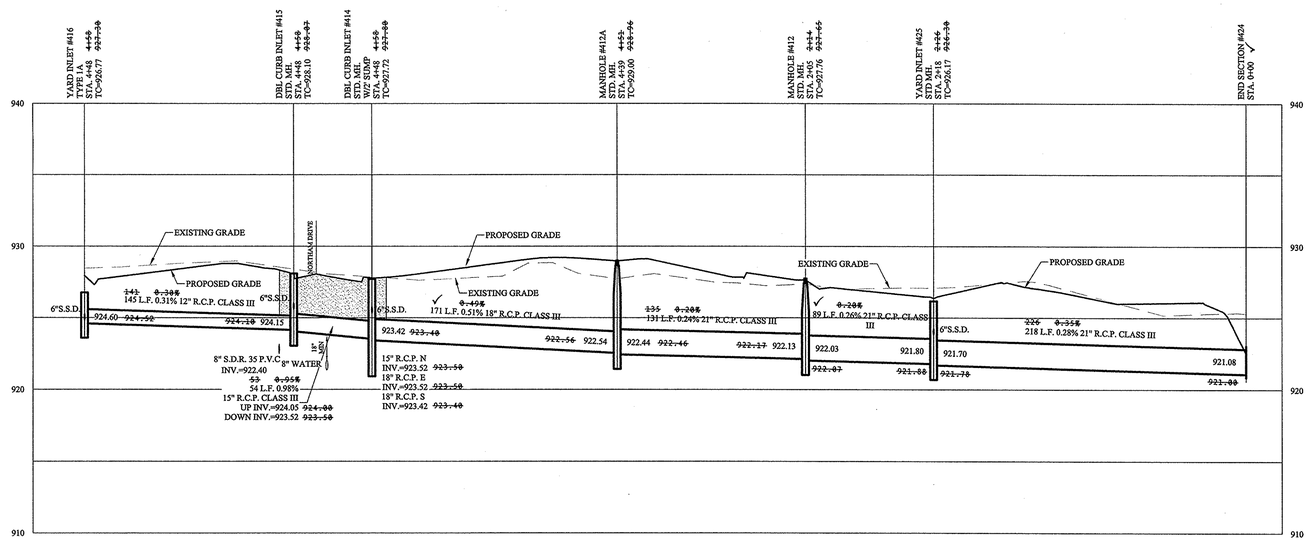

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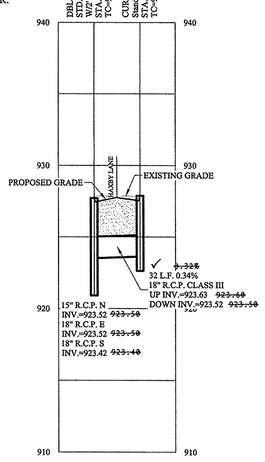

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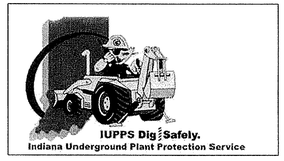
Entry Date: OCT 2016

Entered By: SLM



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DATE	MARK	REVISIONS	BY
06/27/16		AS BUILT	GEM
02/16/16		REVISED PER CLIENT CHANGES	ADG
08/27/15		ADDED 0.10 INVERT DROPS AT STRUCTURES	ADG

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CERTIFIED: 05/28/15

DAVID J. STOEPPELWERTH REGISTERED No. 19358 STATE OF INDIANA PROFESSIONAL ENGINEER

STOEPPELWERTH & ASSOCIATES
ALWAYS ON
7965 East 106th Street, Fishers, IN 46038-2505
phone: 317.849.5935 fax: 317.849.5942

STORM SEWER PLAN & PROFILE

MAPLE VILLAS

WESTFIELD

HAMILTON COUNTY, INDIANA

DRAWN BY: ADG

CHECKED BY: BAH

SHEET NO. C602

S & A JOB NO. 50690PLA-R1

File Name: S:\50690PLA-R1\DWG\C600 - Storm Sewer Plan & Profile.dwg - C602
Modified By: May 27, 2016 9:11:38 AM / gmyers
Plotted By: June 2, 2016 12:12:21 PM / Greg Myers

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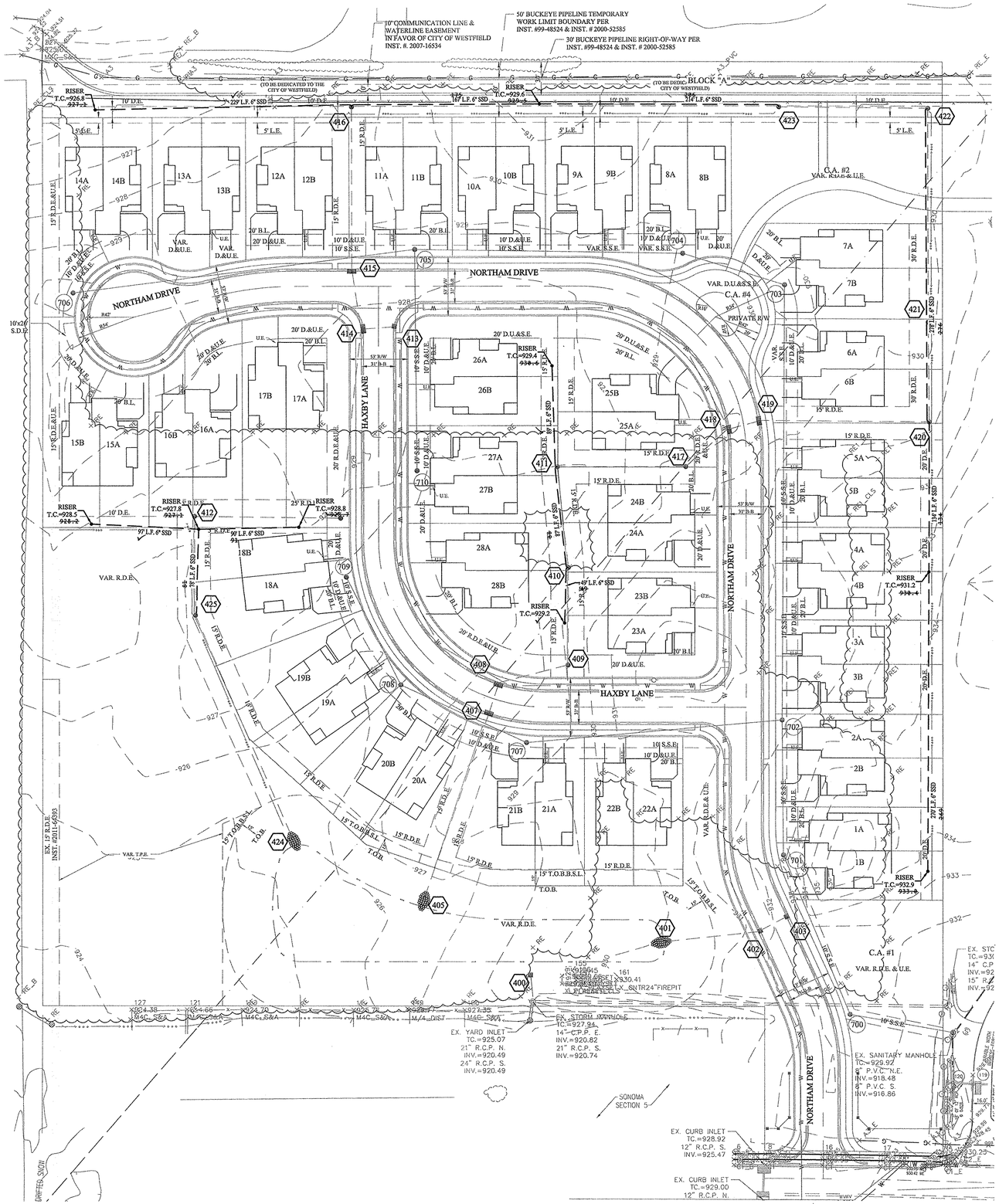

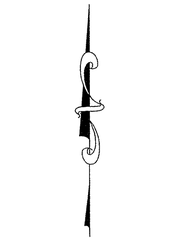

MARK	REVISIONS	BY
05/27/16	AS-BUILT	GEM
08/28/15	REMOVED LOT SSD'S AND NON SWALE SSD'S	ADG

DAVID J. STOEPPELWERTH REGISTERED No. 19358 STATE OF INDIANA PROFESSIONAL ENGINEER

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David J. Stoeppelwerth

RECORD DRAWING

Dennis D. Olmstead
Registered Land Surveyor
No. 900012

06/02/2016

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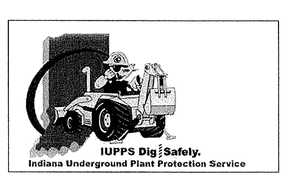

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phone: 317.849.5935 fax: 317.849.5942

SUB-SURFACE DRAIN PLAN

MAPLE VILLAS

HAMILTON COUNTY, INDIANA

WESTFIELD

DRAWN BY:	CHECKED BY:
ADG	BAH

SHEET NO. C603

S & A JOB NO. 50690PLA-R1

File Name: S:\50690PLA-R1\DWG\C600 - Storm Sewer Plan & Profile.dwg - C603
Modified By: May 27, 2016 9:11:38 AM / gmyers
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